

Aryabhata:

Aryabhata with the Commentary of Bhaskara I and
Someavara.

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description: multibyte sequence:

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vocalic r	ɾ
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long vocalic l	ḷ
velar n	ɳ
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palatal n	ɲ
palatal N	Ñ
retroflex t	ɖ
retroflex T	Ṭ
retroflex d	ɗ
retroflex D	Ḍ
retroflex n	ɳ
retroflex N	Ṇ
palatal s	ʃ
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retroflex s	ʂ
retroflex S	Ṣ
anusvara	ṁ
visarga	ḥ
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Unless indicated otherwise, accents have been dropped in order to facilitate word search.

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Āryabhaṭakṛtam

Āryabhaṭīyam

Bhāskara-viracita-bhāṣyopetam

Gītikāpādaḥ

[maṅgalācaraṇam]

yasmāt aśeṣajagatām prabhavam sthitim ca

saṃhāram api upadiśanti samagradhīkāḥ |

bhṛgvaṅgiraḥprabhṛtayaḥ viditāntarāyāḥ
tasmai namaḥ kamalajāya caturmukhāya |

atha aśeṣajagadanugrahāya ācāryāryabhaṭamukhāravindavinissṛta-daśagītikā-
sūtravyākhyānam ārabhyate | tasya eva aśeṣavighnanirākaraṇāya
sarvavidyāprabhavasya bhagavataḥ kamalayoneḥ
praṇāmaprākṛāntaśāstravastuparigrahāya āryām ādau prayuktavān ā

praṇipatya ekam anekam kam satyām devatām param brahma |
āryabhaṭaḥ trīṇi gadati gaṇitam kālakriyām golam || 1 ||

asyāḥ padavibhāgaḥ: ā praṇipatya, ekam, anekam, kam, satyām, devatām, param,
brahma, āryabhaṭaḥ, trīṇi, gadati, gaṇitam, kālakriyām, golam |

atra praṇipatya iti "pra"-śabdaḥ prakarṣavācī, prakarṣeṇa nipatya praṇipatya,
praṇāmam kṛtvā iti arthaḥ | ktvāpratyayena pūrvakālakriyā abhidhīyate, yathā snātvā
bhukte iti | snānakriyā anantaram bhojanakriyā | evam atra api praṇipatanānantaram
gaṇitam, kālakriyām, golam ca gadati | ekam, abhedarūpeṇa vyavasthitam, nirvikāram |
anekam, na ekam anekam, bhedarūpeṇa vyavasthitam | kam, kaḥ iti prajāpateḥ
ākhyānam | kam praṇipatya evaṃguṇaviśiṣṭam
|

atha yadi asau prajāpatiḥ ekaḥ katham asau anekaḥ? yadi asau anekaḥ katham ekaḥ?
ekānekayoḥ parasparaviruddhayoḥ yugapat ekatra avasthānam na sambhavati, yathā
atyantaviruddhayoḥ cchāyā ātapayoḥ uṣṇaśītayōḥ vā iti | atra ucyate ā yathā vṛkṣaḥ
ekavasturūpeṇa [tiṣṭhati], asau eva yadā mūla-skandha-śākhā-prarohādiprapañcena
vikalpyate tadā anekaḥ | evam asau api paramātmā nirvikāraḥ nirañjanaḥ ekaḥ eva,

asau eva [yadā] anekaprāṇīśārīre vyavasthitaḥ
vikalpyate [tadā] anekaḥ | āha ca ā

ekaḥ eva hi bhūtātmā bhūte bhūte vyavasthitaḥ |
ekadhā bahudhā ca eva dṛśyate jalacandravat ||
[amṛtabindūpaniṣat, śloī 12]

iti | athavā asau ekaḥ eva āsīt, tataḥ svayam ardhena puruṣaḥ abhavat ardhena nārī iti |
tataḥ sarvān prāṇinaḥ asṛjat iti | athavā asau bhagavān prajāpatiḥ viśvarūpaḥ | tasmāt
tasya viśvarūpatvāt ekānekatvam ekasmin yugapat sambhavati iti ayam adoṣaḥ |

satyām devatām | devaḥ eva devatā, satyā ca devatā ca | sa eva kaḥ satyatvena
devatātvena ca viśiṣyate | kam satyām devatām praṇipatyā | na kevalam satyatvena
devatātvena ca viśeṣitaḥ | kena ca tarhi iti āha ā param brahma | param ca tat brahma
param brahma | param śrūyate pulastya-pulaha-kratvādikam | evam asau bhagavān
kaḥ, satyā devatā, param brahma ca | kam, satyām devatām, param brahma ca
praṇipatyā |

atha katham kaḥ śabdaḥ pulliṅgaḥ, satyā devatā strīliṅgaḥ, param brahma
napuṃsakaliṅgaḥ? taiḥ bhinnaliṅgaiḥ ekam vastu abhidhīyate | nanu ca atra sarvaiḥ
eva śabdaiḥ ekaliṅgaiḥ bhavitavyam? na iti āha | ete śabdāḥ āviṣṭaliṅgāḥ | taiḥ
āviṣṭaliṅgaiḥ śabdaiḥ ekam eva vastu abhibhīyate | yathā ā "kāraṇam iyam brāhmaṇī,
bhūtam iyam brāhmaṇī, āvapanam iyam uṣṭrikā" iti [aṣṭādhyāyī aī 4, pādaḥ 1, sūtram 3,
pātañjalamahābhāṣyam, ākṣepavārtikaḥ
5117]

athavā brahmaṇoḥ dvayoḥ apy ācāryeṇa praṇipātaḥ kṛtaḥ, śabdabrahmaṇaḥ

parabrahmaṇaḥ ca | tayoḥ upavarṇanā iyam kriyate ā praṇipatya iti |
nigadavyākhyānam evam ā ekam, pariññānataḥ tu tattvasya abhedarūpatvāt, yasmāt
sarveṣu eva jñeyeṣu pariññānamātrasāmānyam ekam; anekam
ṛgyajuḥsāmātharvetihāsapurāṇaśikṣākālpavyākaraṇaniruktachandovicitijyotiṣam iti
ādīśabdarūpeṇa vyavasthitatvāt anekam | kaḥ iti śabdabrahmaṇaḥ ākhyānam | kam
ekam anekam
praṇipatya | satyām devatām iti etat dvayoḥ brahmaṇoḥ śeṣaḥ, satyā devatā
śabdabrahma | uktam ca ā

jñānāntarabhāvi yat ca hi phalam jñātvā kriyā ataḥ ca yat
sarvasya avyabhicārikāraṇam iti jñānasthitau niścayaḥ |
jñeyam ca aparimāṇam alpaviṣayaśrautādiśāstram punar
divyam cakṣuḥ atīndriye api viṣaye vyāhanyate na kvacit ||

param brahma | "param"-śabdaḥ prakarṣavācī | prakṛṣṭam brahma param brahma, yat
sarvaiḥ api muktivādibhiḥ prārthyate, mokṣadaḥ paramātmā iti arthaḥ | evam ca dvayoḥ
brahmaṇoḥ praṇāmaḥ kṛtaḥ | anyatra api "brahma"-śabdena śabdabrahma-
parabrahmaṇoḥ eva grahaṇam | tad yathā ā

dve brahmaṇī veditavye śabdabrahma param ca yat |
śabdabrahmaṇi niṣṇātaḥ param brahma adhigacchati ||
[amṛtabindūpaniṣad, śloī 7; vāyupurāṇam, amśaḥ 6, aī 5, śloī 64]
iti |

athavā, praṇipatya kam hiraṇyagarbham, ekānekasvarūpam, sarvaprāṇinām mahat
nāma | tatra viśeṣaḥ ekam, tasya tasya yataḥ adhiṣṭhātṛdevatā hiraṇyagarbhaḥ ekaḥ
eva | yadā kāraṇānām adhiṣṭhātṛdevatāviśeṣabhedena vivakṣyate tadā anekam | tat

yathā ā trayodaśa kāraṇāni, tvacaḥ vāyuḥ, cakṣuṣaḥ sūryaḥ, śrotrasyāḥ ākāśaḥ,
rasanasyāḥ āpaḥ, ghrāṇasya pṛthivī, evam pañcānām buddhīndriyāṇām adhiṣṭhātryaḥ
devatāḥ, vācaḥ agniḥ, pāṇeḥ indraḥ, pādasya
viṣṇuḥ, pāyunaḥ mitraḥ, upasthasya prajāpatiḥ, evam karmendriyādhiṣṭhātryaḥ
devatāḥ, manasaḥ candraḥ, buddheḥ savitā, ahaṅkārasya rudraḥ iti | satyām devatām
antaryāminaḥ īśvarasya bhagavataḥ paramātmanaḥ kāraṇaśaktyā adhiṣṭhitāḥ sarve
eva padārthāḥ svārthe pravartante | ataḥ tām paramātmanaḥ kāraṇaśaktim satyām
devatām | ataḥ eva strīliṅgena nirdeśaḥ kṛtaḥ | param brahma yat tat adhikārī brahma
paramātmā tam | evam brahmatrayam praṇipatya
| yadi evam, cakāraḥ tarhi kartavyam | na kartavyam | antareṇa api cakāram ca arthaḥ
gamyate eva | tat yathā ā

bāle vṛddhe kṣate kṣīṇe kṣīram yuktyā prayojayet |

iti | bāle ca vṛddhe ca kṣate ca kṣīṇe ca iti gamyate | evam atra api ca arthaḥ, kam ca
satyām devatām ca param brahma ca iti |

āryabhaṭaḥ ācāryasya samākhyānaḥ | trīṇi gadati | trīṇi vastūni gadati iti | nanu atra
evam yuktam vaktum ā "āryabhaṭaḥ aham trīṇi gadāmi" iti, anyathā anyasya kasyacit
etat vākyam ābhāti | yathā kiṃcit kaścit pṛcchati ā "rājakule kena kim uktam iti āha ā
evam ukte rājani evam devadatto bravīti | yajñadattaḥ api evam eva nigadati" iti | tasmāt
tatra api āryabhaṭaḥ trīṇi gadati iti, na tat ācāryasya vacanam iti | atra ucyate | ayam
ācāryaḥ mahānubhāvaḥ svayam
eva bruvan paratvam āpādya kathayati, yathā āha kauṭilyaḥ ā

sukhagrahaṇavijñeyam tattvārthapadaniścitam |

kauṭilyena kṛtam śāstram vimucya granthavistaram ||

[arthaśāstram, 1.1.19]

iti | athavā yaḥ tejasvī puruṣaḥ samareṣu nikṛṣṭāsitejovitānacchuritabāhuḥ
śatruśaṅghātam prakāśam praviśya praharan evam āha ā "ayam asau uditāḥ
aditikulaprasūtaḥ samareṣu anivāritavīryaḥ yajñadattaḥ praharati | yadi kasyacit śaktiḥ
pratipraharatu" iti | evam asau api ācāryaḥ gaṇitakālakriyāgolātiśayajñānodadhipāragaḥ
vitsabhām avagāhya "āryabhaṭaḥ trīṇi gadati gaṇitam kālakriyām golam" iti uktavān |

gaṇitam kālakriyām golam | gaṇitam, kṣetracchāyāśredhīsamakaraṇakuṭṭākārādikam |
kālaḥ, prāṇavināḍīnāḍyahorātrapakṣamāsasaṃvatsarayugādikam | tatparijñānārtham
kriyā kālakriyā | anye punaḥ kriyā avyatiriktam kālam etena abhyupagacchanti | teṣām
ayam vigrahaḥ ā kālaḥ ca asau kriyā ca kālakriyā | evam etau dvau pakṣau ā kecit
kālam kriyāvyatiriktam manyante, anye kriyā eva kālaḥ iti | ubhayathāḥ asmākam
adoṣaḥ iti, yena asmaḍīye siddhānte

sūryodayāt prabhṛti yāvat aparāḥ sūryodayaḥ tāvat ahorātram, yaḥ ca
sūryācandramasoḥ paraḥ viprakarṣaḥ saḥ ardhmāsaḥ, yaḥ ca tayoh paraḥ
sannikarṣaḥ sa māsah; evam dvādaśamāsāḥ saṃvatsaraḥ iti ayam kālaḥ,
kriyāvyatiriktaḥ vā astu kriyā vā iti | golam,

grahabhramaṇadhariṭṛisaṃsthānadarśanopāyam | gadati iti karṭṛvācakaḥ śabdaḥ,
vākyatvāt | gaṇitakālakriyāgolānām dvitīyaikavacane nirdeśaḥ gaṇitam kālakriyām
golam iti gaṇitaśabdaḥ napuṃsakaliṅgam, kālakriyā
strīliṅgam, golaḥ pulliṅgam | eteṣām sāmānyopakramaṇa napuṃsakaliṅgena eva
ācāryeṇa abhidhānam [kṛtam] "trīṇi gadati" iti |

atra ayam gaṇitaśabdaḥ aśeṣagaṇitābhidhāyī, tasmāt aśeṣagaṇitābhidhāyitvāt yathā
kṣetragaṇitam bravīti, evam grahagaṇitam api; grahagaṇitasya ca
kṣetrādyavyatiriktatvāt kālakriyāgolayoḥ ca gaṇitāvyatiriktatvāt gaṇitam nigadati iti

etāvat eva siddhe kālakriyāgolagrahaṇam kurvan ācāryaḥ jñāpayati ā
kṣetracchāyāśredhīsamakaraṇakuṭṭākārādikam sāmānyagaṇitam kiṃcit vakṣye,
viśeṣagaṇite punaḥ kālakriyayā golena tātparyam iti | anyathā
aśeṣagaṇitābhīdhāyigaṇitaśabdena eva siddhatvāt kālakriyāgolayoḥ pṛthaggrahaṇam
anāvaśyakam syāt | tathā ca, ācāryeṇa gaṇitapāde gaṇitavastu diṇmātram eva
abhihitam, kālakriyāgolayoḥ kālakriyāgola [vastu] viśeṣeṇa | avaśyam ayam arthaḥ
abhyupagantavyaḥ ā kiṃcit gaṇitam iti / anyathā hi mahat gaṇitavastu, aṣṭau
vyavahārāḥ miśraka-średhī-kṣetra-khāta-citi-krākacika-rāśi-cchāyābhīdhāyinaḥ |
miśrakaḥ iti sakalagaṇitavastusaṃmiśrakaḥ saṃsparśakaḥ iti arthaḥ
| średhī iti ādyuttarapracitaḥ iti arthaḥ | kṣetram iti anekāśrikṣetraphalāni ānayaṭi iti
arthaḥ | khātaḥ iti khanyapramāṇam nirdiśati iti arthaḥ | citiḥ iti iṣṭakāpramāṇena
uparinicitavastupramāṇam āvedayati iti arthaḥ | krākacikam iti, krakacaḥ nama
dārucchedakam, tasmin krakace bhavaḥ krākacikaḥ, tadvastupramāṇam avagamayati
iti arthaḥ | rāśiḥ iti dhānyādirūpavastunitam tadvastupramāṇam janayati iti arthaḥ |
chāyā iti śaṅkvādicchāyāpramāṇena kālam kathayati
iti arthaḥ | iti vyavahāragāṇitasya aṣṭābhīdhāyinaḥ catvāri bījāni
prathamadvitīyatrīyacaturthāni yāvat tāvat vargāvargaghanāghanaviṣamāni | etat
ekaikasya granthalakṣaṇalakṣyam maskari-pūraṇa-mudgala-prabhṛtibhiḥ ācāryaiḥ
nibaddham kṛtam, sa katham anena ācāryeṇa alpēna granthena śakyate vaktum | tat
suṣṭhu uktam asmābhiḥ kiṃcit gaṇitam viśeṣataḥ kālagolau iti | evam iyam āryā
vyākhyātā || 1||

[saṃkhyāvinyāse paribhāṣā]

yugabhagaṇādīsaṅkhyāsaṃkṣepam vivakṣuḥ ācāryaḥ [pari]bhāṣāsūtrapradarśanāya
gītikāsūtram āha ā

vargākṣarāṇi varge avarge avargākṣarāṇi kāt nīmau yaḥ |
khadvinavake svarāḥ nava varge avarge navānti avarge vā || 2 ||

asya gītisūtrasya padāni ā vargākṣarāṇi, varge, avarge, avargākṣarāṇi, kāt, nīmau, yaḥ,
khadvinavake, svarāḥ, nava, varge, avarge, nava, atyantavarge, vā |

vargākṣarāṇi, vargākṣarāṇi kakārādīni makāraparyantāni | "te vargāḥ pañca pañca" iti
[kātāntram, 1.1.10] | vargākṣarocchāraṇakrameṇa yā saṅkhyā abhidhīyate sā saṅkhyā
vargaśabdena ucyate, abhedopacārāt | ataḥ vargākṣarasaṅkhyā iti arthaḥ | sā varge,
varge iti gaṇitāsāstre viṣamasthānasyāḥ ākhyā, tasmin viṣamasthāne
vargākṣarasaṅkhyā upacīyate | avarge, na vargaḥ avargaḥ samasthānaḥ, tasmin
avargasamjñite samasthāne | avargākṣarāṇi, tāni yakārādīni
hakāraparyavasānāni | kutaḥ etat? "nañ iva yuktam anyasadṛśādhipikarāṇe tathā hy
arthagatiḥ" [aṣṭādhyāyī, 3.1.12, pātañjalabhāṣyam] iti | vargākṣarāṇi kakārādīni |

yādīnām [tu] yathā abrahmaṇam ānaya iti ukte brāhmaṇākṛtitulyam eva kṣatriyam
ānayaṇi nāntyajādi, evam atra api kevalam vyañjanānām eva grahaṇam | teṣām
yakārādīnām avargākṣarāṇām yā saṅkhyā sā avargasthāne upacīyate | sā
[vargākṣarāṇām saṅkhyā] vargasthāne upacīyamānā avargasthānam api yadā prāpnoti,
tadā prāpnuvānā yā teṣām svavargākṣarāṇām upacitiḥ sā vargasthānaḥ eva, tasyāḥ
antyopacititvāt | vargākṣarasaṅkhyāyāḥ vargasthāne
upacīyamānāt avakāśaḥ na asti cet saṅkhyāyāḥ sargaḥ na vidyate iti vargāvargayoḥ
sthānayoḥ sthāpyate | athavā, yā daśādikā saṅkhyā sā dvisthānāvagāhinī, tasyāḥ
dvisthānāvagāhanaśīlatvāt dvayoḥ api sthānayoḥ sthāpyate | anyathā
daśādisaṅkhyāyāḥ abhāvaḥ eva syāt | tad ekādīnavāntasaṅkhyayā eva vyavahāraḥ
syāt |

athavā "ñmau" iti atra makāragrahaṇam kurvan ācāryaḥ jñāpayati ā yā
daśottaravargākṣarasāṅkhyā sā varge vā avarge ca bhavati | anyathā "go yaḥ" iti evam
brūyāt | evam avargākṣarasāṅkhyā api vargashāne yojyā | vargākṣarāṇām saṅkhyā
vargashāne kakārād upacīyate | etat uktam bhavati ā yāni vargākṣarāṇi śrūyate tāni
kakārāt prabhṛti paṭhitāni bhavanti iti | anyathā hi "svam rūpam śabdasya
aśabdasaṃjñā" [aṣṭādhyāyī, 1.2.68] iti | yat yat akṣaram
uccāritam tat tasya eva rūpasya pratipādakam syāt, na kādisaṅkhyāyāḥ | ataḥ uktam
"kāt" iti |

ñmau, ṅaḥ ca maḥ ca ñmau | anackau eva ṅakāramakārau, tayoh dvi[vaca]nanirdeśaḥ
ñmau | ṅakāramakārayoh yā saṅkhyā sā ekatra saṃvṛttā yakārasaṅkhyā bhavati |
ṅakāraḥ pañca, makāraḥ pañcaviṃśatiḥ, ete saṅkhye ekatra triṃśat, tena
triṃśatsaṃkhyo yakāraḥ | rephādīnām avargākṣaratvāt yakārasaṅkhyā eva kevalam
prāpnoti, anirdeśāt anyatsaṅkhyāyāḥ | na rephādīnām yakārasaṅkhyā | kutaḥ? yadi
rephādīnām api yakārasaṅkhyā eva syāt tadā yakāram
eva sarvatra brūyāt, na rephādīni | "navarāśahaḥ gatvāṃśakān prathamapātāḥ" iti atra
[rā]śaheṣu ekam eva avargākṣaram brūyāt | tasmāt na rephādīnām yakārasaṅkhyā | kā
tarhi? kecit āhuḥ ā ekaikavṛddhyā rephādīnām saṅkhyā, yakāratrimṃśat, rakāraḥ
ekatrimṃśat, lakāraḥ dvātrimṃśat iti ādi | etat na | kutaḥ? ekatrimṃśadādisaṅkhyāyāḥ
anyena eva prakāreṇa siddhatvāt | yakāraḥ triṃśat, sa eva yadā yakāraḥ
kakārasaṃyuktaḥ tadā hi ekatrimṃśat, khakārādibhiḥ dvātrimṃśat,
trayaḥ triṃśat ādiḥ iti saṅkhyā |

anye āhuḥ ā rephādayaḥ daśottaravṛddhyā vardhante iti, rephaḥ catvāriṃśat, lakāraḥ
pañcāśat | evam avargākṣarābhāvāt na śakyate pratipattum | yathā kāt iti ācāryeṇa
abhihitatvāt ekādyekottaritā saṅkhyā vargākṣarāṇām pratipadyate, evam
avargākṣarāṇām api yāt iti yadā ucyate tadā daśottaritā saṅkhyā pratipattum śakyate |

anyathā "yāt" iti api ucyamāne katham daśottaritā saṅkhyā, nanu ca ekottaritā syāt | na
iti āha ā yasmāt kāt iti [vargākṣarāṇi]
vargasthāne upacīyante tasmāt teṣām ekottaritā saṅkhyā, yāni punar avargākṣarāṇi
yādīni ekottaropacayāni avargasthāne tasmāt daśottaritā eva vṛddhiḥ bhavati,
avargasthānasya daśakasaṅkhyādhāratvāt | evam tarhi yādgrahaṇam kartavyam | na
kartavyam | katham? akriyamāṇe ayam arthaḥ avagamyate | akṛtam eva yadi kṛtam
eva, kim iti na paṭhyate? paṭhyate eva "ñmau yaḥ" | atra ayam yakāraḥ anackaḥ ñmau
yaḥ, aparaḥ yakāraḥ api anackaḥ evam pañcamīvibhaktyantaḥ
ñmau yaḥ | atra ekaḥ yakāraḥ luptanirdiṣṭaḥ pratipattavyaḥ | yathā "kñiti ca" [aṣṭādhyāyī,
1.1.5] iti atra luptanirdiṣṭaḥ gakāraḥ, kiti giti ñiti iti, evam atra api | athavā
dviyakāroccāraṇe api viśeṣaḥ na asti eva | evam yād iti asya ayam arthaḥ siddhaḥ |
yadi ekottarāṇi avargasthānasthitatvāt daśottarāṇi eva bhavanti tadā kim iti ācāryeṇa
"ñmau yaḥ" iti mahāprayāsaḥ kṛtaḥ | katham tarhi vaktavyaḥ? "gaḥ yaḥ" iti gakāraḥ
trisaṅkhyāḥ, avargasthānasthitatvāt eva ayam triṃśatkaḥ
bhaviṣyati | na, ñakāramakārasaṅkhyāvat eva śeṣāṇi api rephādīni
catvāriṃśadādisaṅkhāni bhavanti iti avargasthānāśrayāt eva siddhe sati
ñmakāragrahaṇam kurvan ācāryaḥ jñāpayati iti uktam ā yāvanti vargasthānāni teṣu
sarveṣu eva sā saṅkhyā yugapat prāptā, avargākṣarāṇām ca yā saṅkhyā yāvanti
avargasthānāni teṣu sarveṣu eva |

ataḥ tatsaṅkhyānirūpaṇārtham āha ā khadvinavake svarāḥ nava varge avarge | khāni
śanyāni, khānam dvinavakam khadvinavakam, tasmin khadvinavake, aṣṭādaśasu
śūnyopalakṣiteṣu [sthāneṣu] | svarāḥ nava varge avarge | varge vargasthāne nava
svarāḥ | aṣṭādaśasu ca sthāneṣu nava vargasthānāni, tatra navasu vargasthāneṣu nava
svarāḥ | ke punar te nava svarāḥ grāhyāḥ? yadi hrasvāḥ eva kevalam parigrhyante tadā
na pūryante | atha dīrghāḥ eva kevalam
parigrhyante tadā api aṣṭau svarāḥ bhavanti, nanu lṛvarṇasya dīrghābhāvāt | atha

hrasvāḥ dīrghaḥ ca parigr̥hyante tadā atiricyante, anisṭam prāpnoti | "jhā gḍa glā rdha dḍa" [gītikāī, 10] iti atra ākārasya dvitīye ca pratipāditatvāt dvitīyavargasthāne jhakārasaṅkhyā sthāpyamānā navaśatāni syuḥ, na nava | abhīṣyate ca navasaṅkhyā, navasaṅkhyākaḥ jhakāraḥ | tatra hrasvaḥ eva jhakāraḥ paṭhyate iti cet "nṛṣi yojanam ṅilā bhūvyāsaḥ" [gītikāī, 6] iti atra lakāre pañcasahasrāṇi syuḥ, na pañcāśat | tatra ca avaśyam dīrghaḥ lakāraḥ paṭhitavyaḥ, anyathā gītiḥ eva bhidyeta | ataḥ na kevalam hrasvāḥ na kevalam dīrghāḥ, na api hrasvadīrghāḥ, na svarāḥ mātrkāpaṭhitāt parigr̥hyante | kasmāt tarhi svarāḥ parigr̥hītavyāḥ? ucyate ā yatra nava eva kevalāḥ svarāḥ paṭhyante, tasmāt parigr̥hītavyāḥ | kasmin nava eva kevalāḥ paṭhyante? āha ā pāṇinīye vyākaraṇe pratyāhāre a i u ṛ ḷ e o ai au iti ete nava svarāḥ | tatra prathame vargasthāne akāraḥ, dvitīye ikāraḥ, ṛtīye ukāraḥ, iti ādi | evam svaropalakṣiteṣu vargasthāneṣu vargākṣarasaṅkhyā | avargākṣarasaṅkhyā ca svaropalakṣitavargasthānottare avargasthāne |

athavā varge avarge iti ayam vīpsā, varge avarge ca, vargasthāne avargasthāne ca te eva nava svarāḥ | tad yathā ā akāraḥ prathame vargasthāne tadanantarāvargasthāne ca | tad yadi vargākṣarasamyuktaḥ akāraḥ prathamavargasthāne "bhṛgubudha" iti ādiṣu, sa eva yadā avargākṣarasamyuktaḥ tadā tatprathamavargasthānānantarāvargasthāne "navarāṣaha" iti ādiṣu | evam ikārādiṣu api sveṣu vargāvargasthāneṣu yojyam | atha dīrghheṣu akārādiṣu katham karaṇīyam? ucyate ā yathā te vyākaraṇe akārādayaḥ svarāḥ aṣṭādaśaprabhedāḥ, dvādaśa bhedaḥ ca ḷvarṇasandhisvarāḥ parigr̥hyante, evam atra api | tena "ṅilā bhūvyāsa" iti ādiṣu ākāraḥ prathamaḥ eva vargasthāneṣu | aṣṭādaśasthāneṣu yāni vargasthānāni avargasthānāni ca teṣu vargākṣarāvargākṣarasaṅkhyā nirūpitā |

yadā punar aṣṭādaśavyatirikteṣu sthāneṣu saṅkhyā kasyacit vivakṣitā bhavati tadā katham karaṇīyam iti? atra āha ā navāntyavarge vā | navānām antaḥ navāntaḥ |

navānte bhavam navāntyam | navāntyah ca asau vargaḥ ca navāntyavargaḥ | tasmin navāntyavarge vā svarāḥ bhavanti, vikalpitāḥ svarāḥ bhavanti | vikalpaḥ ca kasmimśit katham upalakṣyate? yathā "putracchedyavikalpā apatyacchedyaprakārāḥ", evam atra api kenacit prakāreṇa vikalpitāḥ navāntyavarge daśame vargasthāne svarāḥ bhavanti | yadi prathame vargasthāne akāraḥ śuddhaḥ vikalpitaḥ sa eva tasmāt vargasthānāt daśame vargasthāne anusvārādinā vikalpyate, evam ikārādayaḥ svasmāt vargasthānāt daśame vargasthāne, punar api ca yāvat abhīṣṭam bhavati tāvat tena api anubandhena svarān vikalpya saṅkhyopadeṣṭavyā | etat paribhāṣābījam ācāryeṇa saṅkhyāvivakṣūṅām anugrahāya upadiṣṭam | svaśāstravyavahāraḥ tu lṛvarṇavargasthānāt na atiricyate |

vargākṣarāṅām avargākṣarāṅām ca [yā] saṅkhyā sā akṣarābhihitavāt yāvanti vakṣyamāṅāni gītikāsūtreṣu akṣarāṅi teṣām sarveṣām eva prāpnoti tat ca aniṣṭam prasajyeta, tena atra arthavanti yāni akṣarāṅi teṣām saṅkhyā na bhavet iti etat vaktavyam | yathā ā "yugaravibhagaṅāḥ khyughr" [gītikā í, 3] iti atra khyughr-śabdasya saṅkhyā iṣyate na yugaravibhagaṅaśabdasya | yadi pratiṣedhaḥ na ucate tadā khyughr-śabdasya yathā saṅkhyā evam yugaravibhagaṅaśabdasya api prāpnoti | sa tarhi pratiṣedhaḥ avaśyam vaktavyaḥ | na vaktavyaḥ | yadi sarveṣām eva akṣarāṅām gītikāsūtrapratibaddhānām saṅkhyā syāt tadā sarvam eva etat śāstram anarthakam syāt |

[jyotiṣaśāstraprādurbhāve vyākhyākāramatam]

atha katham asya atīndriyāṅām sphuṭagrahagatyarthānām prādurbhāvaḥ? brahmaṅaḥ prasādena iti | evam anuśrūyate ā anena ācāryeṇa mahadbhiḥ tapobhiḥ brahmā ārādhitāḥ | ataḥ asya tatprasādena sphuṭagrahagatyarthānām prādurbhāvaḥ iti | āha ca ā

atīndriyārthāvagataḥ tapobhiḥ paropakāraṣamakāvyaḍṛṣṭeḥ |
yaḥ alaṅkr̥teḥ avyayam anvayasya parāśarasya anukṛtim cakāra ||
iti | brahmaṇaḥ kutaḥ? brahmā svayaṃbhūḥ jñānarāśiḥ | tataḥ sarvāsām vidyānām
prādurbhāvaḥ | ataḥ anena lokānugrahāya sphuṭagrahagatyarthavācakāni daśa
gītikāsūtrāṇi gaṇitakālakriyāgolārthavācakam āryāṣṭaśatam ca vinibaddham |
sphuṭagrahagatyarthahetavaḥ arthāḥ, tasmāt sarvadā eva nityāḥ, teṣām śabdebhyaḥ
avagatiḥ iti śabdabaddhāḥ, yathā suvarṇikāraḥ suvarṇam ādāya
kaṭakakeyūrakuṇḍalādyalaṅkāram niṣpādyā niṣpannam api alaṅkāram bhaṅktvā
anyatvam āpādayati | atha ca suvarṇasya tāpacchedanikaṣādiparīkṣaṇena anyatvam
manāg api na bhavati iti arthānām api sādhuśabdālaṅkāranānāvṛttabandhaiḥ
viracyamānānām ananyatvam iti | śrutau api śatapathe bṛhadāraṇyake paṭhyate; tad
yathā ā "peśaskārī peśasaḥ mātrām apādayānyannavataram kalyāṇataram rūpam
tanute" [bṛhadāraṇyakopaniṣat, 4.4.4] iti | evam ayam āgamārthaḥ brahmaṇaḥ sakāśāt
ācāryeṇa adhigataḥ |

atha anye manyante ā "jyotiṣām udayamadhyāstamayaprāptinḥ ḍṛṣṭvā
pratyakṣānumānābhyām paricchidya svadhīviracitam" iti | etat ca na | jyotīṃṣi kṣititalam
bhitvā pūrvasyām diśi udgatāni krameṇa ambaramadhyam atītya parasyām diśi
kṣititalam bhitvā eva pravīśantaḥ lakṣyante | etāvati udayāstamayāntare
viyatyupalakṣaṇābhāvāt jyotiṣām gatipramāṇaparicchedaḥ duḥsampādyāḥ, gateḥ
ceyattāparijñānābhāvāt "etāvatā kālena iyatī gatiḥ etāvatā kālena
kiyatī" iti gaṇitakarmanā na pravartate | pramāṇaphalarāśyoḥ aparijñānāt apravatteḥ ca
gaṇitakarmanāḥ grahāṇām yugabhagaṇāparijñānam, yugabhagaṇāparijñānāt
grahagatiparijñānābhāvaḥ | yathā atra aśvādīnām gatiḥ pratyakṣeṇa deśakālābhyām
saha upapadyate iti ataḥ gaṇitakarmanā pravartate, atīndriyatvāt grahagateḥ
viyatyupalakṣaṇābhāvāt na pratyakṣeṇa paricchidyate, katham tarhi āgamāt

upagatagrahayutigrahanakṣtrayogagrahaṇādayaḥ pratyakṣīkriyante?

anyat ca ā grahādīni jyotīṃṣi kṣititalam bhittvā eva pūrvasyām diśi udgatāni krameṇa
ambaramadhyam atītya kṣititalam bhittvā eva astam gacchantāḥ lakṣyante |

jyotiścakrasya pravahākṣepāt jyotiścakrapratibaddhāḥ grahāḥ prāṇmukhāḥ svagatyā
bhramantaḥ api laghvayā jyotiścakragatyā aparām diśam āsādayantaḥ lakṣyante,

kulālacakrārūḍhakīṭavat | tasmāt anyā jyotiścakragatiḥ, anyā grahagatiḥ prāṇmukhī |
kutaḥ? yasmāt grahaḥ aśvinyām dṛṣṭaḥ bharaṇyādiṣu

parasparam prāgvvyavasthiteṣu nakṣatreṣu upalakṣyate bhacakre, na revatyādiṣu

parasparāparasthiteṣu | tasmāt jyotiścakragrahagatyoḥ bhinnatvāt

udayāstamayadeśāntaraprāptyanumānam upapadyate | tasmāt ayam āgamaḥ

brahmaṇaḥ prasādāt ācāryeṇa adhigataḥ iti | grahasya nakṣatrāṇām ca

nityasambandhāt nakṣatrāṇām niscalatvāt grahagatyanumānam iti etat ca na | bahūni

nakṣatrāṇi teṣu grahasya pāramparyeṇa bhukteḥ anekarūpatvāt

vikṣepāpakramacakraśāt

dakṣiṇottaramachyāsannadūracāritvāt grahasya ekasmin eva nakṣatre gatiparyayeṇa

udayāstamayavakrānuvakrasambhavāt grahagativaicitryam, gaṇitena ca ekarūpā gatiḥ

anumīyate | tasmāt ayam āgamaḥ brahmaṇaḥ prasādāt ācāryeṇa adhigataḥ iti |

anyat ca ā deśāntarākṣaviśeṣāt grahagativaicitryam | tat yathā ā laṅkāyām akṣābhāvāt

sarvadā eva tulye rātryahanī laṅkāsamīpavartinām rohaṇasiṃhalānām ca; tataḥ

uttarataḥ divasasya vṛddhiḥ niśāyāḥ hāniḥ, dakṣiṇataḥ niśāyāḥ vṛddhiḥ divasasya hāniḥ

iti | sūryagrahaṇam api akṣadeśāntaravaśāt kvacit khaṇḍam, kvacit sakalam, kvacit na

eva | candragrahaṇam ca iha ghaṭīvyatītāyām rātryām, ghaṭīkādeśāntarāparadeśasthitā

grahītāraḥ dinānte kathayanti,

pūrvataḥ ca yātā dūrodgatasya candramasaḥ grahaṇam kathayanti | tasmāt

udayamadhyāstaprāptinakṣatrayogaparyayādibhiḥ vicitrā iyam grahagatiḥ

deśāntarākṣaviśeṣaiḥ ca ativicitratvam āpadyamānā na śakyate anekarūpatvāt
gaṇitanyāyena ānetum | na ca kaścit evam prakārāṇām deśakālaparyayeṇa
upapadyamānānām pratijāgaritā | yaḥ ca sarvaḥ ciram jīvati sa varṣāsatam jīvati | tasya
api yugapat anekadeśāntarākṣaviśeṣat nakṣatrayogaparyayādibhiḥ
utpadyamānagrahagatayaḥ
yugapat na pratyakṣībhavanti | tasmāt ayam āgamaḥ brahmaṇaḥ prasādāt ācāryeṇa
adhigataḥ iti | vakṣyati ca ā

sadasajjñānasamudrāt samuddhṛtam brahmaṇaḥ prasādena |
sajjñānottamaratnam mayā nimagnam svamatināvā ||
[golapādaḥ, 49]

iti |

[vedāṅgeṣu jyotiṣaśāstraprādhānyam]

na kevalam jyotiṣām ayam āgamaḥ, vedāṅgam ca | "tasmāt brāhmaṇeṇa niṣkāraṇam
ṣaḍaṅgaḥ vedaḥ adhyeyaḥ" [pātāñjalamahābhāṣyam, paspaśāhnikam] ṣaḍaṅgeṣu
pradhānam jyotiṣām ayanam | kutaḥ asya prādhānyam? yasmāt anadhītaśikṣādayaḥ
api prāg gurūpadeśāt vedān adhīyate, na ca teṣām duradhītam bhavati | na
anadhigatajyotiṣām ayanā vedoktān yajñakālān jānate | atha śikṣayā varṇānām
sthānakaraṇaprayatnāni nirūpyante ā

aṣṭau sthānāni varṇānām uraḥ kaṇṭhaḥ śiraḥ tathā |
jihvāmūlam ca dantāḥ ca nāsikoṣṭhaḥ ca tālu ca ||
[pāṇinīyaśikṣā, śloī 13]

iti ādi | varṇāḥ uccāryamāṇāḥ svaiḥ svaiḥ sthānakaraṇaprayatnaiḥ svabhāvataḥ eva
āsyāt niṣkrāmanti, na anyataḥ | "akuhavisarjanīyāḥ kaṇṭhyāḥ, ṛturaṣāḥ mūrdhanyāḥ |"
akuhavisarjanīyāḥ uccāryamāṇāḥ kaṇṭhapradesāt eva āsyāt niṣkrāmanti na mūrdhnaḥ,
ṛturaṣāḥ uccāryamāṇāḥ mūrdhnaḥ eva na anyasmāt pradesāntarāt iti | yasmāt teṣām
sthānakaraṇaprayatnāḥ svabhāvataḥ eva siddhāḥ tasmāt teṣām
sthānakaraṇaprayatnaḥ nirarthakaḥ | tathā ca anadhītavvyākaraṇāḥ
api brāhmaṇāḥ vedān adhīyate | na ca teṣām duradhītam bhavati | na ca
anadhītajyotiṣām ayanā vedoktān yajñakālān jānate | vyākaraṇena kila vedānām rakṣā
kriyate | rakṣā api prajānām pārthivaiḥ duṣṭanigraheṇa śiṣṭānugraheṇa ca kriyate | evam
vedānām śabdarāśitvāt asādhūnām uddhāraḥ nigrahaḥ, sādūnām śabdānām samyak
kṛtaḥ anugrahaḥ iti | etat ca na | nityāḥ vedāḥ | teṣu śabdarāśiprakṣepāṇām [svataḥ
siddhiḥ], dṛṣṭānuvidhitvāt chandasah | yaḥ yaḥ
śabdaḥ vedeṣu paṭhyate tasya tasya aprasiddhalakṣaṇasya api svayam lakṣaṇam
sādhyam pratyayaprakṛtilopāgamavarṇavikārādibhiḥ | na ca jyotiṣām ayanasya api | ye
ye vede yajñakālāḥ dṛṣṭāḥ te sarve eva jyotiṣām ayane gaṇitalakṣaṇasiddhāḥ eva |

anyat ca ā "dṛṣṭānuvidhitvāt chandasah" iti yadi vedeṣu dṛṣṭāḥ eva anuvidhīyate tadā
nahi kiñcit prayojanam vyākaraṇena | atha ṛgyajuḥsāmnām sarveṣām eva
pratipadānirukteḥ niruktasya āvyāpitā | atha chandovicitaiḥ ṛgyajuḥsāmnām nityaḥ eva
chandaḥ nibaddhaḥ | na ca teṣām idānīm kāvyapadapūrvaḥ nibaddhaḥ kriyate | na ca
anyūnādhikalakṣaṇānām ṛgyajuḥsāmnām idānīm anyathākaraṇam karaṇam | evam ca
bāhvṛce śrūtau śrūyate, na hi ekena akṣareṇa
dvābhyām vā ūnāni chandāṃsi kriyante iti | na hi evam vedoktānām yajñakālānām iti
kramaḥ śrūyate | na hi ādhānādiṣu saṃskāreṣu kālaviśeṣāḥ jyotiṣām ayanāt vinā
avagamyante | tat yathā saṃskāreṣu ā

evam gacchan striyam kṣāmām maghām mūlam ca varjayet |

susthaḥ indau sulakṣaṇyām vidvāṃsam putram aśnuyāt ||

[yājñavalkyasmṛtiḥ, ācārādhyāyaḥ, vivāhaprakaraṇam, śloī 80]

iti | tatra maghāmūlayoḥ pratipatticchedau indoḥ ca susthaduḥsthatām ca
nānadhītajyotiṣām ayanā jānate | "sā yadi garbham na dadhīta siṃhyā śvetapuṣpā
upoṣya puṣyeṇa mūlam utthāpya" iti [pāraskaragr̥hyasūtram, kāī 1, kaṇḍikā 13, sūī 1]
tatra puṣyasya pratipatticchedau nānadhītajyotiṣām ayanā jānate | tathā ca puṃsavane
ā "yat ahaḥ puṃsā nakṣatreṇa candramāḥ [yujyeta] tat ahar upavāsyā" iti
[pāraskaragr̥hyasūtram, 1. 14. 3] | tatra puṃnakṣatrāṇi punar
vasupuṣyahastasvātīsravaṇāḥ | eteṣām nirupahatānām anukūlahatānām ca
pratipatticchedau nānadhītajyotiṣām ayanā jānate |

anyat ca ā

nāmadheyam daśamyām tat dvādaśyām vā asya kārayet |

puṇye ahani muhūrte vā nakṣatre vā guṇānvite ||

[manusmṛtiḥ, 2.30]

iti | atra puṇyasya ahnaḥ, nakṣatrasya guṇānvitasya, muhūrtasya vā pratipatticchedau
nānadhītajyotiṣām ayanā jānate |

anyat ca ā "udagayane āpūryamāṇapakṣe puṇyāhe kumāryāḥ pāṇim gr̥hṇīyāt", "triṣu
triṣu uttarādiṣu", "svātau mṛgaśirasi rohiṇyām ca" [pāraskaragr̥hyasūtram, 1.4.5-7] iti
atra udagayanādīnām uttarādīnām nakṣatrāṇām vadhūvarayoḥ anukūlānām ca
pratipatticchedau nānadhītajyotiṣām ayanā jānate, evamādi pratiśākham saṃskārāṇām
puṇyāhanakṣatramuhūrtacodanā jyotiṣām ayanāṅgaviṣayāḥ tadvidbhyaḥ eva
avagantavyāḥ, na gurūpadeśāt sampradāyāvicchedāt
vā avagantavyāḥ | iti adhyeyam jyotiṣām ayanam |

anyat ca ā chandasah upākarmaṇi "atha atah adhyāyopākarma | oṣadhīnām
prādurbhāve śravaṇena śrāvaṇyām paurṇamāsyām śrāvaṇasya pañcamī hastena vā"
[pāraskaragr̥hyasūtram, 2.10.1-2] iti atra śrāvaṇapaurṇamāsīm śravaṇena yuktām,
śrāvaṇasya pañcamīm hastena yuktām nānadhītajyotiṣām ayanā jānate | anyat ca ā
[chandasah utsarge] "pauṣasya rohiṇyām madhyamāyām vāṣṭakāyām adhyāyān
utsrjeran" [pāraskaragr̥hyasūtram, 2.12.1] iti etat ca
| atha nakṣatrādhāneṣu "yā asau vaiśākhasya āmāvāsyā tasyām ādadhīta sā rohiṇyā
sampadyate" [āpastambaśrautasūtram, 4.3.20; baudhāyanavyākhyā] iti atra prāg eva
rohiṇyā vaiśākhasya āmāvāsyāyāḥ pariñānayogyasya ādhānadraavyasya arjanam
ṛtvijām ca varaṇam iti etat ca jyotiṣām ayanāṅgaviṣayam, tadvidbhyaḥ eva
avagantavyam, na gurūpadeśāt sampradāyāvicchedāt vā avagantavyam iti adhyeyam
jyotiṣām ayanam | tathā ca "kṛttikāsu agnim ādadhīta" [taittirīyabrāhmaṇam,
1.1.2.1] evamādi nakṣatrādhānacodanāḥ ca "paśvijyā saṃvatsare [saṃvatsare], prāvṛṣi
āvṛttimukhayoḥ vā" [kātyāyanaśrautasūtram, paśubandhaí, 1-2] iti āvṛttimukhayoḥ
pratipatticchedau vedinām anadhītajyotiṣām ayanā [na] jānate | anyat ca ā
"darśapaurṇamāsābhyām yajeta" [śatapathabrāhmaṇam, 11.2.5.10] iti evamādi
codanāḥ ca [śrauta]smārteṣu ca karmasu "aparapakṣe śrāddham kurvīta ūrdhvam vā
caturyyām" [pāraskaragr̥hyasūtrapariśiṣṭakārahāṣyam, śrāddhasūtram
1] |

api naḥ sa kule jāyāt yaḥ naḥ dadyāt trayodaśīm |
pāyasam madhusaṃyuktam varṣāsu ca maghāsu ca ||
[manusmṛtiḥ, 3.264]

iti |

kim bahunā, śrautas-mārtaviṣayāṅām tithinakṣatraviṣayāṅām karmaṅām nityānām
kāmyānām ca na jyotiṣām ayanāt vinā samārambhaḥ, iti adhyeyam jyotiṣām ayanam |

[lokavyavahāre jyotiṣaśāstropādeyatā]

lokaḥ ca tithinakṣatramuhūrtaviṣayāṅām [sambandhena eva] śubheṣu kāryeṣu
pravartate | tathā ca puṣpaphalapāṇiḥ sarvaḥ eva daivajñam upetya prcchati ā "kadā
me kim bhaviṣyati? kadā aham kṛṣyādikarmaṇi pravarte? kadā aham daivajñakena
upatiṣṭhe? kadā aham adhvānam prapadye? kadā rājānam paśyāmi? ihasthasya
śubham me bhaviṣyati āhosvid anyasthānagatasya? kena karmaṅā pravṛttasya me
phalam bhaviṣyati?" iti etat daivajñāt avagatārthaḥ
sarvaḥ eva śubheṣu kāryeṣu pravartate | aśubheṣu api ā "kadā paradeśam didhakṣuḥ
aham pravarte? kadā vairiṇaḥ vināśāya pratiṣṭhe? kadā gajāśvaharaṇam [vidadhe]?
kadā puram grāmam vā ghātayāmi?" etat ca daivajñāt avagatya sarvaḥ pravartate |
mlecchādayaḥ api ca śakunanimittasvapnabalāt eva kāryeṣu pravartante | yasya ca
yatkiñcit śubham bhavati sa bravīti "śubhanakṣatramuhūrteṣu aham āgataḥ", yasya vā
yatkiñcit skhalitam bhavati sa bravīti ā "mama nakṣatrapīḍā
vartate, na anukūlāḥ grahāḥ" iti | tathā ca hastiśikṣāvidaḥ svaśāstroktatithinakṣatreṣu
eva pāribandhādihastikarmasu pravartante |

pakṣacchidreṣu tithayaḥ ye yasya -ravaḥ matā|

teṣu teṣu pāripraveśabandham ca parivarjayanti |

nakṣatram hastinām prāha svayam eva prajāpatiḥ |

hastahastaviśuddhaḥ hi hastinām karma kīrtyate ||

iti ādi | tathā ca aśvaśikṣāyām ā

aśvinyām revatau puṣye punar vasyoḥ ca kārayet |
vājinām sarvakarmāṇi svātau vāruṇahastayoḥ ||

iti | tathā ca viṣatantre ā

kṛttikāsu viśākhāsu maghāsu bharaṇīṣu ca |
sārpe mūle tathā ardrāyām sarpadaṣṭaḥ na jīvati ||

āviddhamlecchādayaḥ api ca na śubhatithinakṣatramuhūrtān ullaṅghya pravartante |
tathā kṣutaruditākruṣṭapratyaskhalitaśravaṇam pariharanti |
ṛṇakāṣṭhabhāralavaṇāsthimattonmattaklībāhidarśanam pariharanti |
sitakusumasvāduphalekṣuvaṃśā[mbara]sa[ma]laṅkṛtastrīpūrṇakumbhādidarśanam
abhinandanti | iti adhyeyam jyotiṣām ayanam lokānugrahāya | iti evam idam prathamam
gītikāsūtram || 2 ||

[grahāṇām yugabhagaṇāḥ]

grahāṇām yugabhagaṇapradarśanāya āryām āha ā

yugaravibhagaṇāḥ khyugḥ śaśi
cayagiṇuśuchlḥ ku ṇīśibuṅlṛṣkhḥ prāk |
śani ḍhuṅvighva guru khri-
cyubha kuja bhadriljhnuḥkhḥ bhrgubudhasaurāḥ || 3 ||

asyāḥ padāni ā yugaravibhagaṇāḥ, khyugḥ avibhaktikaḥ nirdeśaḥ, śaśi avibhaktikaḥ

eva, cayagiñuśuchlṛ avibhaktikaḥ, ku avibhaktikaḥ eva, niśibuñlṛṣkḥṛ avibhaktikaḥ,
prāk, śani, ḍhuñvighva, guru, khricyubha, kuja, bhadlijhnukḥṛ, etāni śanyādīni api ca
padāni avibhaktikanirdiṣṭāni eva | avibhaktikanirdeśāḥ anyatra api drśyante "aiuṇ ṛ!k",
"sarvaviśva" ityādiṣu ca | bhṛgubudhasaurāḥ |

[yugaravibhagaṇāḥ] | yuge ravibhagaṇāḥ yugaravibhagaṇāḥ, yugasya vā ravibhagaṇāḥ
yugaravibhagaṇāḥ | yugam kālakriyāpāde vakṣyate | atha atra dvandvanirdeśaḥ kasmāt
na bhavati? ā yugam ca ravibhagaṇāḥ ca yugaravibhagaṇāḥ, yugam khyugḥṛ
ravibhagaṇāḥ khyugḥṛ iti | evam ca sati dvandvanirdeśe yat tat kālakriyāpāde vakṣyate,
tat eva na vaktavyam bhavati | satyam, kintu trairāśīkam na siddhyati | saptamāsamāse
ṣaṣṭhīsamāse vā kriyamāṇe trairāśīkam

siddham | yadi divasasañkhye varṣasañkhye vā yuge yathānirdiṣṭāḥ grahabhagaṇāḥ
labhyante tadā asmin nirdiṣṭe kiyantaḥ iti tatkālamadhyamagrahabhagaṇādayaḥ
labhyante | ṣaṣṭhīsamāse ca yad yasya divasasañkhyasya varṣasañkhyasya yugasya
yathānirdiṣṭāḥ grahabhagaṇāḥ labhyante, asya iṣṭasya kiyantaḥ iti
madhyamagrahabhagaṇādisiddhiḥ | dvandve punar na etat siddhyati | asau ca atra
yugabhagaṇaśabdaḥ sarvatra adhikārārthe prayujyate | adhikāre ca yathā
yugaravibhagaṇāḥ

evam yuge śaśibhagaṇāḥ ityādi | anyathā kasmin kāle kasya vā kālasya ete
grahabhagaṇāḥ iti etat ne nirdiṣṭam bhavati | tasmāt ṣaṣṭhīsaptamīsamāsābhyām
anyatareṇa vyākhyeyam, arkeṇa eva grahāṇām yugaprasiddheḥ | uktam ca ā

viśiṣṭadeśakālārkabhādīparyāyayogajaḥ |

kālaḥ grahāt ca sadasadvargaḥ syāt vyāvahārikam ||

iti | uttaratra api adhikārārtham raviyugabhagaṇaśabdaḥ sambandhanīyaḥ, raviyuge
śaśibhagaṇāḥ raviyugasya vā iti | katham idam? [raviyugabhagaṇāḥ iti] pāṭhāntare api

dvandvanirdeśāt śaṣṭhīsaptamyarthaḥ durlabhaḥ bhavet adhikāraḥ ca | evam tarhi
ekaśeṣanirdeśaḥ atra pratipattavyaḥ, raviyugabhagaṇāḥ ca raviyugabhagaṇāḥ ca
raviyugabhagaṇāḥ iti | ekena raviyugabhagaṇaśabdena raviyugabhagaṇāḥ ca
raviyugabhagaṇapramāṇasamsiddhiḥ dvitīyena śaṣṭhīsaptamīsamāsābhyāṃ
trairāśikasiddhiḥ iti | yadi evam yugaravibhagaṇaśabdena api ayam arthaḥ śakyate
jñātum, na kiñcit pāṭhāntare prayojanam |

yugaravibhagaṇāḥ kiyantaḥ? ucyante ā khyugḥ | ukāravargasthāne ayam khakāraḥ
yakāraḥ ca, tena ukāravargasthāne dvātriṃśat | ghṛ ṛkāravargasthāne ghakāraḥ, tena
tasmin sthāne catvāri | evam ekatra tricavāriṃśat lakṣā viṃśatisahasrāṇi | aṅkaiḥ api
4320000 |

śaśi cayagiyiṇuśuchḥ | prakṛtādhikārayugabhagaṇasamyogena śaśiśabdaḥ vyākhyeyaḥ
ā yugaśaśibhagaṇāḥ | atra api tau eva samāsau | yugaśaśibhagaṇāḥ cayagiyiṇuśuchḥ |
pūrvavat eva vargāvargasthāneṣu saṅkhyā sthāpanīyā |
rasāgnirāmadahaneṣvadriśailāśilīmukhāḥ | aṅkaiḥ api 57753336|

ku ṇiśibuṅṛṣkḥṛ | tathā eva yugakubhagaṇāḥ tathā eva svasthāne api viniveśitāḥ,
khāmbareṣvadirāmāśvīyamāṣṭatithayaḥ, 1582237500 |

bhacakrapratibaddhāni nakṣatrāṇi tasya bhacakrasya pravahākṣepavaśāt aparām
diśam āsādayanti | nakṣatrāṇi [bhuvam] grahavat svagatyā prāṇmukhīm bhramantīm iva
paśyanti iti anayā yuktyā bhavaḥ bhagaṇanirdeśaḥ |

prāk | ye ete grahāḥ vivasvadādayaḥ prāṇmukhāḥ bhramanti | yadi api
bhapañjarapravahākṣepāt apagacchanti diśam, tathā api ete svagatyā prāṇmukham
eva gacchanti | alpatvāt gateḥ kālāntareṇa prācīm diśam āsādayantaḥ lakṣyante,

kulālacakrasthakīṭavat | yadi ete prāggatayaḥ na syuḥ, tadā aśvinyām dr̥ṣṭaḥ [grahaḥ]
bharanyām na upalakṣyeta | yadi ete aparābhimukhāḥ syuḥ, tadā aśvinyām dr̥ṣṭāḥ
revatyām upalakṣyeran | tasmāt ete prānmukhāḥ eva
bhramanti iti ataḥ "prāk" iti |

kim punar bhūbhagaṇopadeśe prayojanam iti āha ā "ravibhūyogāḥ [bhūdivasāḥ]",
[kālakriyāī, 5] iti bhūdivasānayanam | na etat asti, prakārāntaraniṣpannatvāt
kudivasānām | yadi api ayam eva kudivasapratipatteḥ upāyaḥ syāt tathā api
upadeśagauravāt na yujyate | kā upadeśagurutā? ucyate ā "ku niśibuṅṅṣkhr" iti
kubhagaṇopadeśaḥ, "ravibhūyogāḥ bhūdivasāḥ" iti bhūdivasopadeśaḥ | katham tarhi
abhidhīyate? ucyate ā bhūdivasapramāṇanirdeśaḥ | evam laghutaraprakāraḥ
| tasmāt na ekam prayojanam upadeśasya etāvataḥ kāraṇam bhavitum arhati | anyat
api prayojanāntaram asti iti āha | tat yathā ā kaliyātabhūbhagaṇaiḥ sarve eva grahāḥ
mīnameṣasandhyudayakālāvadhayāḥ ānīyante | kali[yāta]ravimaṇḍalāhargaṇasamāsaḥ
[eva] kaliyātabhūbhagaṇāḥ | taiḥ trairāśīkam ā yadi yugaprasiddhabhūbhagaṇaiḥ
iṣṭagrahabhagaṇāḥ mīnameṣasandhiprārabdhāḥ prāpyante, tadā kaliyātabhūbhagaṇaiḥ
kiyantaḥ iti iṣṭagrahabhagaṇādayaḥ | athavā
sūryodayakālāvadheḥ eva grahāḥ ānīyante | katham? ravibhagaṇāḥ yātāhargane
kṣiptvā taddivasasūryarāśyādīn ca adhaḥ vinyasya iṣṭagrahabhagaṇaiḥ krameṇa
saṃguṇayya svacchedaiḥ ṣaṣṭyādibhiḥ bhaktvā upari upari āropya tathā eva
bhūbhagaṇaiḥ vibhajeta, labdham iṣṭagrahamaṇḍalāni | śeṣam dvādaśādiguṇitam kṛtvā
tad avaśiṣṭam [adhaḥ adhaḥ] prakṣipyā tathā eva ca apahr̥te rāśyādayaḥ | athavā,
ravimaṇḍalāhargaṇayogam dvādaśābhiḥ saṃguṇayya raviyātarāśayaḥ
prakṣipyante, triṃśatā bhāgānityādi [arghāt triṃśatā saṃguṇayya raviyātabhāgān
prakṣipet iti ādi] karma kṛtvā khakhaṣaḍghanacchedarāśim nidhāya trairāśīkam ā yadi
yugabhūbhagaṇaiḥ abhiṣṭagrahabhagaṇāḥ labhyante, tadā
khakhaṣaḍghanabhāgahārabhūbhagaṇaiḥ kiyantaḥ? tena

khakhaṣaḍghanaguṇitayugabhūbhagaṇaiḥ bhāge hr̥te bhagaṇādilabdhiḥ | athavā,
rāśyādiguṇakārasaṃvarga- [12 x 30 x 60]-khakhaṣaḍghana-[21600]yoḥ
guṇakārabhāgahārayoḥ tulyatvāt naṣṭayoḥ
abhīṣṭagrahabhagaṇaguṇitabhūbhagaṇalīptānām yugabhūbhagaṇāḥ eva bhāgahārah,
phalam abhīṣṭagrahalīptāḥ |

śani ḍhuṇivaghva | pūrvavat śaniyugabhagaṇāḥ ḍhuṇivaghva, kṛtaraseṣu aṅgamanavaḥ,
aṅkaiḥ api 146564 | guru khricyubha | pūrvavat eva, kṛtāśviyamābdhiraśagnayaḥ,
aṅkaiḥ api 364224 | tathā eva kuja bhadriljhnukhr̥, vedāśvivasurasarandhrayamāsvinaḥ,
aṅkaiḥ api 2296824 |

bhr̥gubudhasaurāḥ | bhr̥guḥ ca budhaḥ ca bhr̥gubudhau, tayoḥ saurāḥ | sūryasya ime
saurāḥ | ke? bhagaṇāḥ | bhr̥gubudhayoḥ saurāḥ, bhr̥gubudhasaurāḥ | sūryasya ye
bhagaṇāḥ te eva śukrabudhayoḥ api khyughr̥-saṅkhyā iti | eteṣām yugabhagaṇānām
utpattipratyākhyānam "kṣitiraviyogādinakṛd" [golapādaḥ, 48] iti asyām kārikāyām
vyākhyāsyāmaḥ | evam dvitīyā gītiḥ || 3 ||

[grahoccayugabhagaṇāḥ]

grahoccayugabhagaṇapratipādanāya āha ā

candrocca rjuṣkhiḍha budha

suguśithṛna bhr̥gu jaṣabikhuchṛ śeṣārkaḥ |

candrocca, rjuṣkhiḍha, budha, suguśithṛna, bhr̥gu, jaṣabikhuchṛ, eteṣām avibhaktikaḥ
nirdeśaḥ, śeṣārkaḥ |

atra api adhikṛtayugabhagaṇasaṃyogena eva vyākhyeyam | candroccasya
yugabhagaṇāḥ candroccayabhagaṇāḥ, rjuṣkhiḍha navenduyamāṣṭavasvabdhayaḥ,
aṅkaiḥ api 488219 | budha evam budhoccayugabhagaṇāḥ suguśithṛna
khāśvyambaramunirāmarandhrādriśaśinaḥ, aṅkaiḥ api 17937020 | bhṛgu tathā eva
bhṛgūccayugabhagaṇāḥ jaṣabikhuchṛ vasvaṣṭāgniyamāśviśūnyādrayaḥ, aṅkaiḥ api
7022388 |

atra ayam bhṛguśabdaḥ, āhosvit bhṛgujaśabdaḥ? bhṛguḥ nāma bhagavān maharṣiḥ
tasya putraḥ śukraḥ tasya ye bhagaṇāḥ nirdiśyante; tena bhṛgujaḥ iti, athavā bhārgavaḥ
iti nirdeśyaḥ | yadi ayam bhṛgujaśabdaḥ, tadā ṣabikhuchṛ iti ete bhagaṇāḥ prāpnuvanti,
jaṣabikhuchṛ iti ete ca iśyante | katham tarhi atra bhṛguśabdaḥ eva vijñeyaḥ, yat uta
bhṛgujaśabdaḥ? bhṛguśabdaḥ eva vijñāyate | kutaḥ? anyatra bhṛgujaśabdasya
āśravaṇāt | atra śāstre bhṛgujaśabdena na
kvacit śukraḥ ācāryeṇa nirdiṣṭaḥ | tena tarhi bhṛguśabdena bhṛgugurubudhaśani iti ādi
yadi api ucyate, bhārgavaśabdena nirdeśaḥ kartavyaḥ, na bhṛguśabdena, bhṛgoḥ
apatyam bhārgavaḥ iti | na eṣaḥ doṣaḥ, bhṛgoḥ apatyam bhṛguḥ iti api bhavati, "yathā
babhruḥ, maṇḍuḥ, lamakaḥ" [aṣṭādhyāyī, 3.1.2. pātañjalabhāṣyam] iti | babhroḥ
apatyam bābhavyaḥ iti ādi vaktavye babhruḥ iti ucyate, evam māṇḍavyaḥ maṇḍuḥ |
tathā eva bhārgavaḥ bhṛguḥ |

śeṣārkaḥ | nirdiṣṭebhyaḥ ye anye te śeṣāḥ, te ca śanigurubhaumāḥ | teṣām śeṣāṇām |
arkasya ime ārkāḥ | ke? bhagaṇāḥ | śeṣāṇām ārkāḥ, śeṣārkaḥ | "khyughr"tulyāḥ eva
uccabhagaṇāḥ śanigurubhaumānām | yataḥ sūryādayaḥ vigrahavantaḥ paribhramantaḥ
rāśiṣu upalakṣyante, tena teṣām bhagaṇāḥ kīrtiyante | ete punar śaśyuccādayaḥ na eva
lakṣyante; teṣām katham bhagaṇāḥ bhavanti, alakṣyamāṇatvāt iti? atra ucyate ā atra
candrādīnām eva [svoccasthitānām
bhagaṇāḥ] | athavā sphuṭagrahagatiḥ atra sādhyate | tasyāḥ sādhanopāyāḥ

madhyamaḥ, śīghraḥ, mandaḥ, paridhayaḥ, jyā iti ādayaḥ | sā ca sphuṭā grahagatiḥ
etaiḥ upāyaiḥ sādhayitum śakyate, na anyathā | yathā
prakṛtipratyayalopāgamavarṇavikārādibhiḥ upāyaiḥ sādhuśabdaḥ sādhyate, evam atra
api | tasmāt upāyāḥ upeyasādhakāḥ | teṣām na niyamaḥ | uktam ca ā

upādāyāḥ api ye heyāḥ tān upāyān pracakṣate |
upāyānām ca niyamaḥ na avaśyam avatiṣṭhate ||
[vākyapadīyam, 2.38]

iti | tasmāt upāyamātratvāt na doṣaḥ |

[pātayugabhagaṇāḥ]

atha pātabhagaṇapradarśanārtham āha ā

buphinaca pātavilomā

adhikṛtayugabhagaṇasamyogāt yugapātavilomabhagaṇāḥ | buphinaca
rasāśviyamadasrāgniyamāḥ, aṅkaiḥ api 232226; ete bhagaṇāḥ | pātasya vilomā
viparītagatiḥ prasiddhā, tena atra anulomagatijijñāsabhiḥ maṇḍalāt viśodhyate, tasya
pātasya anulomagatiḥ bhavati | sā candrāt viśodhyate | tasmāt pātaviśuddhaśeṣāt
candramasaḥ kṣepaḥ sādhyate | yadi etāvatā prayojanena pātaḥ maṇḍalāt śodhya
anulomaḥ kriyate atra, tarhi mahāprayāsaḥ - pātaḥ maṇḍalāt śodhyaḥ,
sa candrāt iti | katham tarhi? yaḥ eva karaṇāgatapātaḥ candramasi kṣipyate, vilomatvāt
apacayaḥ kṣepaḥ iti | tasmāt uttaraḥ dakṣiṇaḥ vā vikṣepaḥ sādhyate | kim ayam
candramasaḥ pātaḥ ucyate, nanu ca sarveṣām eva ayam iti? nahi, pārīśeṣyāt
candrasya eva ayam pātaḥ, grahāṇām pātāḥ vakṣyante, "navarāṣaha" [gītikāī, 8] iti |

tasmāt pariśiṣṭaḥ candrasya eva ayam | nanu sūryaḥ api anyah asti? tasya
vikṣepābhāvāt pātābhāvaḥ |

[bhagaṇārambhakālādinirdeśaḥ]

ete grahoccapātabhagaṇāḥ kasmin kāle, kasmin deśe, kasmāt jyotiścakrapradeśāt
pravṛttāḥ iti etat na jñāyate | ataḥ tatpradarśanārtham āha ā

budhāhni ajārkodayāt ca laṅkāyām || 4 ||

budhāhni, ajārkodayāt, ca, laṅkāyām |

budhasya ahaḥ budhāhaḥ, tasmin budhāhni | nanu ca "rājāhassakhibhyaṣṭac"
[aṣṭādhyāyī, 5.4.19] iti samāsānte kṛte budhāhe iti bhavitavyam | na eṣaḥ doṣaḥ,
samāsāntavidheḥ anityatvāt | anityaḥ samāsāntavidhiḥ, kasmin cit bhavati kasmin cit na
bhavati iti | tena budhāhni iti api bhavati | budhadivase budhādivāraḥ
anantarakṛtayugapravṛttau | tena budhādivārāt kṛtayugādi ahar gaṇaḥ gaṇyate |
ajārkodayāt ajaḥ meṣaḥ | arkasya udayaḥ arkodayaḥ | ajaḥ ca arkodayaḥ
ca ajārkodayaḥ | "sarvaḥ dvandvaḥ vibhāṣāyām ekavat bhavati" [aṣṭādhyāyī 2.2.29,
pātañjalabhāṣyam] iti ekavat bhāvaḥ | tasmāt ajārkodayāt, meṣādeḥ arkodayāt ca |
meṣādeḥ bhagaṇapradeśāt sūryodayāt ca laṅkāyām ete grahāḥ svān svān bhagaṇān
bhoktum ārabdhāḥ | meṣādeḥ yasmāt ete pravṛttāḥ tasmāt eṣu graheṣu na kṣepaḥ na
apacayaḥ | yasmāt sūryodayāt tasmāt ardharātryādiṣu kālaviśeṣeṣu yathā iṣṭam
svabhogaiḥ sañcālanam, yataḥ laṅkāyām tataḥ anyeṣu
deśeṣu deśāntararekhāyāḥ pūrvataḥ aparataḥ vyavasthiteṣu deśāntaraphalāpacayaḥ
kṣepaḥ ca | cakāra etān eva arthān samuccinoti | budhāhni arkodayāt laṅkāyām iti |
evam tṛtīyā gītiḥ || 4 ||

[alpamānam tadgatapramāṇam ca]

kalpayugamanvantarāṇām gatāgatapratipādanāya āha ā

kāhaḥ manavaḥ ḍha manuyu-

gāḥ śkha gatāḥ te ca manuyugāḥ chnā ca |

kalpādeḥ yugapādāḥ

ga ca gurudivasāt ca bhāratāt pūrvam || 5 ||

kāhaḥ, manavaḥ, ḍha iti avibhaktikaḥ nirdeśaḥ, manuyugāḥ, śkha ayam api

avibhaktikaḥ eva, gatāḥ, te, ca avibhaktikaḥ, manuyugāḥ, chnā [avibhaktikaḥ], ca,

kalpādeḥ, yugapādāḥ, ga avibhaktikaḥ eva, ca, gurudivasāt, ca, bhāratāt, pūrvam |

kaḥ iti prajāpateḥ ākhyānam | kasya ahaḥ kāhaḥ, brahmadivasahḥ iti arthaḥ | tasya

kāhasya kiyat pramāṇam iti āha ā manavaḥ ḍha | caturdaśa manavaḥ kāhasya

pramāṇam | brahmaṇaḥ divase caturdaśa manavaḥ parivartante | ekaikasya manaḥ

kiyat kiyat antaram iti āha ā manuyugāḥ śkha | dvāsaptatiyugāni manaḥ manoḥ antaram

| atra katham ucyate tad dvāsaptatiyugāni manoḥ antaram iti | anye punar anyathā

manyante ā

tad ekasaptatiguṇam manvantaram iha ucyate |

iti | ekasaptatiḥ caturyugāni manoḥ antaram | atra katham? ucyate ā ye evam manyante

teṣām pūrvāparavirodhaḥ | ekasaptatiḥ caturyugāni manoḥ antaram iti ukhvā ta evam

punar api āha ā

sahasrayugaparyantam ahar yat brahmaṇaḥ viduḥ |
rātrim yugasahasrāntām te ahorātravidaḥ janāḥ ||
[śrīmadbhagavadgītā, 8.17; manusmṛtiḥ, 1.73]

iti | tatra ekasaptatiḥ caturdaśabhiḥ guṇitāni na eva yugasahasram bhavati | tasmāt
ucyate pūrvāparavirodhaḥ | yadi ekasaptatiḥ manoḥ antaram, katham
caturdaśamanvantarāṇi yugasahasram bhavati? asmākam tu dvāsaptatiḥ caturyugāni
manoḥ antaram | aṣṭottaram sahasram brāhmaḥ divasaḥ iti etat upapannam |

teṣu manuṣu caturdaśasu kiyantaḥ manavaḥ vyatīkrāntāḥ iti āha ā gatāḥ te ca | gatāḥ
ca-saṅkhyā, ṣaṭ iti arthaḥ | saptamasya manoḥ kiyanti yugāni iti āha ā manuyugāḥ chnā
| manoḥ saptamasya vyatītāni saptaviṃśatiḥ yugāni | aṣṭāviṃśatitamasya yugasya
pādāḥ vyatītāḥ ga trisaṅkhyāḥ kṛtatretādvāparasamjñitāḥ | ca pādapūraṇe | gurudivasāt
ca bhāratāt pūrvam | guroḥ divasaḥ gurudivasāḥ, tasmāt gurudivasāt, bhāratāt ca
pūrvam | gurudivasena upalakṣitāt
bhāratāt pūrvam iti sāmānyena abhihitatvāt kaliyugādeḥ pūrvam iti vyākhyeyam |
anyathā pūrvaśabdāt atiricyate | ete manavaḥ, etāni ca yugāni, ete ca yugapādāḥ
vyatīkrāntāḥ | cakāra etān eva arthān samuccinoti |

atra etat praṣṭavyam ā kim etāni yugāni yugapādāḥ ca tulyapramāṇāḥ āhosvit
bhinnapramāṇāḥ iti? kecit āhuḥ bhinnapramāṇāḥ iti | tad yathā ā

catvāri āhuḥ sahasrāṇi [varṣāṇām yat kṛtam yugam] |
tasya tāvat śatī sandhyā sandhyāṃśaḥ ca tathāvidhaḥ ||
itareṣu sasandhyeṣu sasandhyāṃśeṣu ca triṣu |
ekāpāyena vartante sahasrāṇi śatāni ca ||
[manusmṛtiḥ, 1.69-70]

asmākam punaḥ tatra yugapādāḥ sarve eva tulyapramāṇāḥ | anyathā
atītānāgatagrahagatiparijñānam eva na ghaṭate | ayam ca yugādigatanirdeśaḥ
grahagatiparijñānāya eva | tad yathā ā ṣaṇmanavaḥ vyatikrāntāḥ iti | ṣaṇṇām ca
manūnām vyatītāni yugāni dvyagnyabdhayaḥ, 432 | etāni ca saptamasya manoḥ
saptaviṃśatiḥ yugāni, tatsahitāni naveṣu abdhayaḥ, 459 | etāni vyatītayugāni varṣāni
kriyante | katham? khyugḥṛ-saṅkhyāni varṣāni yugapramāṇam | tena khyugḥṛ-guṇāni
varṣāni, vasvaṣṭāśvivasturandhrarūpāni ayutaguṇāni, 1982880000 | etāni ca
aṣṭāviṃśatitamayugasya pādatrāyasya varṣāni kṛtāśvyagnayaḥ ayutaguṇāḥ 3240000,
etaiḥ sahitāni arkartuvasurandhrarūpāni ayutaguṇāni 1986120000 etāvān kālaḥ
kaliyugādau brahmadivasya atītaḥ | yāvanti varṣāni atītāni kaliyugasya tāvanti atra
prakṣpya ahargaṇaḥ kriyate | asmin ahargaṇe guroḥ prabhṛti dinavāraḥ,
kṛtayugādyahargaṇe budhāt, kaliyugādeḥ śukrāt | "budhāhni ajārkodayāt ca
laṅkāyām" iti kṛtayugādau budhavāsaropadeśāt kalpādeḥ guruḥ abhyūhitaḥ,
kaliyugādeḥ ca bhṛguḥ | evam kalpādyahargaṇe, kṛtayugādyahargaṇe vā kriyamāṇe na
kasyadit kṣepaḥ |

yadā punaḥ kaliyugavyatītāt eva ahargaṇaḥ kriyate, tadā śāśyuccasya rāśitrayam
kṣepaḥ, pātasya ṣaḍrāśayaḥ | katham? [dvāpa]rāntāhargaṇam pātabhagaṇaiḥ
śāśyuccasya bhagaṇaiḥ ca pṛthak pṛthak saṃguṇayya bhūdivasaiḥ bhāgalabdhāni
maṇḍalāni, śeṣe dvādaśaguṇite bhūdivasaiḥ apahrte ṣaḍrāśayaḥ pātasya, śāśyuccasya
ca trayāḥ rāśayaḥ labhyante | athavā caturbhiḥ samaiḥ yugapādaiḥ pātabhagaṇāḥ
śāśyuccabhagaṇāḥ ca labhyante, tat etaiḥ samaiḥ tribhiḥ
yugapādaiḥ kiyantaḥ iti bhagaṇāḥ labhyante | śeṣe dvādaśaguṇe [caturvibhakte
rāśayaḥ] iti | evam idam caturtham gītikāsūtram || 5 ||

[grahāṇām kakṣyāpramāṇāni]

ete grahāḥ bhramantaḥ kiyatpramāṇāsu kakṣyāsu bhramanti iti etat na jñāyate,
tatjñānārtham āha ā

śaśirāśayaḥ ṭha cakram,
te aṃśakalāyojanāni ya-va-ña-guṇāḥ |
prāṇena eti kalām bham,
khayugāṃśe grahajavaḥ, bhavāṃśe arkaḥ || 6 ||

[śaśirāśayaḥ, ṭha avibhaktikaḥ, cakram, te, aṃśakalāyojanāni, ya-va-ña-guṇāḥ,
prāṇena, eti, kalām, bham, khayugāṃśe, grahajavaḥ, bhavāṃśe, arkaḥ]

śaśigrahaṇāt abhihitāḥ śaśibhagaṇāḥ parigr̥hyante | te śaśibhagaṇāḥ rāśayaḥ
kartavyāḥ | katham iti āha ā ṭha cakram, dvādaśarāśayaḥ cakram bhavati iti |
śaśibhagaṇāḥ cakrasamjñitāḥ dvādaśabhiḥ guṇyante, tataḥ te rāśayaḥ bhavanti | te
rāśayaḥ aṃśakalāyojanāni kartavyāḥ | katham iti āha ā te aṃśakalāyojanāni ya-va-ña-
guṇāḥ | "ya"guṇāḥ rāśayaḥ aṃśāḥ, "va"guṇāḥ kalāḥ, "ña"guṇāḥ yojanāni | evam imāni
ākāśakakṣyāyojanāni bhavanti |

vyomāmbarakharasādrīṣukhayamādrisāgarādivedaravayaḥ, aṅkaiḥ api
12474720576000, ākāśakakṣyā | yāvantam ākāśapradeśam raveḥ mayūkhāḥ samantāt
dyotayanti tāvān pradeśaḥ khagolasya paridhiḥ, khakakṣyā | anyathā hi aparimitatvāt
ākāśasya parimāṇākhyānam na upapadyate |

candramasaḥ liptā daśayojanāni iti ataḥ aṇutvāt candrabhagaṇaiḥ eva upadiṣṭā
khakakṣyā | anyeṣāṃ bhagaṇaiḥ api eṣā śakyate eva | nanu tad yathā ā raveḥ
yugabhagaṇāḥ liptīkṛtāḥ dvayekāgnirāmanavakāḥ daśalakṣābhyastāḥ, te ca aṅkaiḥ api
93312000000 | raveḥ liptāyojanāni rāmāgnīndavaḥ, yojanāṣṭādaśasahastrabhāgāḥ ca

randhravasvagniravayaḥ, aṅkaiḥ api likhyante

133

12389

18000 |

etaiḥ yojanaiḥ yojanabhāgaiḥ ca guṇitāḥ yugaravilīptāḥ khakakṣyāyojanāni bhavanti | śanaiḥ carasya api līptāyojanāni khavedarandhrāgnayaḥ, rūpābdhīrasāṅgarāmāṃśāḥ khākāśāṣṭādrīndavaḥ, aṅkaiḥ api

3940

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36641 |

etaiḥ yugaśanaiḥ caralīptāḥ guṇitāḥ tāni eva khakakṣyāyojanāni bhavanti | evam anyabhagaṇebhyaḥ api khakakṣyāyojanāni bhavanti |

prāṇena eti kalām bham | nanu ca atra kakṣyāḥ prakrāntāḥ, tāsu prakrāntāsu "prāṇena eti kalām bham" iti etat aprākaraṇīkam | na etat asti | etāni sūtrāṇi | sūtreṣu ca kecit arthāḥ prākaraṇīkāḥ kecit aprākaraṇīkāḥ, vicīratvāt sūtrāṇām | prāṇena ucchvāsena, eti gacchati, kalām līptām, bham jyotiścakram | pravahēṇa-ākṣipyamāṇam jyotiścakram kalām eti ucchvāsatulyena kālena | jyotiścakram līptānām khakhaṣaḍghanam, tat ahorātreṇa paryeti | ahorātrasya prāṇāḥ khakhaṣaḍghanatulyāḥ | tena kalāḥ ca jyotiścakrasambandhāḥ prāṇāḥ ca tulyāḥ | tasmāt chāyākaraṇādiṣu prāṇeṣu eva jyādikam karma pravartate | jyotiścakrāhorātrayoḥ ādiḥ ravyudayāt iti kālakriyāpāde vistareṇa vyākhyāsyāmaḥ |

grahakakṣyāpradarśanārtham āha ā khayugāṃśe grahajavaḥ | kha iti anena pūrvanirdiṣṭā khakakṣyā parigr̥hyate | yugagrahaṇena yugasambandhinaḥ grahāṇām bhagaṇāḥ parigr̥hyante | yadi khayugāṃśe grahajavaḥ iti yugam parigr̥hyate, ekatvāt yugasya ekā eva sarveṣām grahāṇām kakṣyā syāt | khasya yugāṃśaḥ khayugāṃśaḥ |

khakakṣyāyāḥ svaiḥ svaiḥ yugabhagaṇaiḥ bhāge hr̥te yat labdham tat yugāṃśaḥ |
tasmin yugāṃśe | grahāṇām javaḥ grahajavaḥ | javaḥ
vegaḥ gatiḥ iti arthāntaram | tāvati paridhipradeśe grahāḥ paribhramanti, svaiḥ svaiḥ
gativīśeṣaiḥ | khakakṣyāyām svaiḥ svaiḥ yugabhagaṇaiḥ bhāge hr̥te yathāsvam
grahakakṣyāḥ bhavanti | [katham?] ucyate ā trairāśīkagaṇitavīśeṣeṇa | "ṣaṣṭyā
sūryābdānām" [kālakriyāī, 12] iti atra khyugḥṛ-tulyaiḥ arkavarṣaiḥ khakakṣyātulyāni
yojanāni sarve eva grahāḥ pūrayanti iti vakṣyati | tena yadi etāvadbhiḥ yugabhagaṇaiḥ
iṣṭagrahasya [= iṣṭagrahasya yugabhagaṇaiḥ] khakakṣyā
[labhyate], tataḥ ekena bhagaṇena kā iti svakakṣyā labhyate |

bhavāṃśe arkaḥ | bhasya vāṃśaḥ bhavāṃśaḥ, nakṣatraparidheḥ ṣaṣṭyamśaḥ
sūryakakṣyā bhavati | katham ucyate nakṣtrakakṣyāyāḥ ṣaṣṭibhāgaḥ sūryakakṣyā iti,
nakṣtrakakṣyāyāḥ asiddhatvāt? na atra sūryakakṣyā abhidhīyate | kim tarhi?
nakṣtrakakṣyā | katham? yā atra sūryakakṣyā sā nakṣtrakakṣyāyāḥ ṣaṣṭibhāgaḥ |
sūryakakṣyā ca "khayugāṃśe grahajavaḥ" iti anena siddhā yadi nakṣtrakakṣyāyāḥ
ṣaṣṭibhāgaḥ tadā sarvā nakṣātrakakṣyā kiyatī bhavati
iti ṣaṣṭyā guṇyate, tadā tasyāḥ nakṣtrakakṣyāyāḥ pramāṇam bhavati | sā ca
vasugaganāmbaraśūnyarasāśvirāmādriśaśinaḥ, aṅkaiḥ api 173260008 | vicitratvāt
gaṇitanirdeśasya kvacit rāśiḥ sakalaḥ abhidhīyate, kvacit rāśeḥ ekadeśaḥ | atra punaḥ
rāśeḥ ekadeśena ṣaṣṭyamśena sakalaḥ rāśiḥ abhyūhyate |

iṣṭagrahakakṣyābhiḥ iṣṭagrahayojanakarṇāḥ ānīyante | yadi ā

caturadhikam śatam aṣṭaguṇam dvāṣaṣṭiḥ tathā sahasrāṇām |
[gaṇitapādaḥ, 10]

iti etāvataḥ paridhinā ayutapramāṇaviṣkambhārdham labhyate, tadā iṣṭakakṣyāparidhinā

kim iti tatkakṣyāyojanaviṣkambhārdham labhyate | tad eva yojanakarṇaḥ
svasphuṭajijñāṃsubhiḥ sphuṭīkriyate | yadi vyāsārdhaliptābhiḥ iyāniṣṭayojanakarṇaḥ
labhyate, tadā tena aviśeṣakarṇena bhūtārāgrahavivareṇa kiyān yojanakarṇaḥ iti
sphuṭayojanakarṇaḥ labhyate | evam idam pañcamam gītikāsūtram || 6 ||

[bhū-śāśi-grahāṇām vyāsāḥ]

yojanāni iti uktam | teṣām yojanānām pramāṇam na jñāyate | tatparijñānārtham
bhūgrahāṇām vyāsapramāṇapratipādanārtham ca āha ā

nṛṣi yojanam, ñilā bhū-
vyāsāḥ arkendvoḥ ghriñā giṇa, ka meroḥ |
bhṛgu-guru-budha-śani-bhaumāḥ
śāśi-ṇa-ñā-ṇa-na-māṃśakāḥ, samārkasamāḥ || 7 ||

nṛṣi avibhaktikaḥ, yojanam, ñilā avibhaktikaḥ, bhūvyāsāḥ, arkendvoḥ, ghriñā giṇa ka iti
ete avibhaktikāḥ nirdeśāḥ, meroḥ, bhṛgu-guru-budha-śani-bhaumāḥ, śāśi-ṇa-ñā-ṇa-na-
māṃśakāḥ, samāḥ, arkasamāḥ |

nṛṇām ṣi nṛṣi, aṣṭau puruṣasahasrāṇi | nṛṣiḥ eva yojanam nṛṣi yojanam | "puruṣaḥ
dhanurdaṇḍaḥ naraḥ" iti paryāyāḥ | etat uktam bhavati ā aṣṭau dhanussahasrāṇi
yojanam | anena yojanapramāṇena ñilā bhūvyāsāḥ | "ñilā" iti pañcāśaduttaram
sahasram | ñilā eva bhūvyāsāḥ ñilā bhūvyāsāḥ, "vyāsāḥ viṣkambhaḥ vistaraḥ" iti
paryāyāḥ |

anye punar anyathā manyante ā jambūdīvīpaviṣkambhaḥ, tataḥ dviguṇottarāḥ samudrāḥ
dvīpāḥ ca iti anayā prakriyayā dviguṇaśreḍhyāḥ caturdaśagacchāyāḥ yat sarvadhanam

tāvat pramāṇam tasya iti | etat api ca golapāde vistāreṇa vicārya pratyākhyāsyāmaḥ |
anyat ca tatra eva akṣonnatyā bhūparidhiyojanānayanam upadekṣyāmaḥ | atha tu
purāṇe gaṅgādvāarakumāryantarālam yojanasahasram ucyate | tat ca [na] pratyakṣeṇa
upalabhyate | tat yathā ā laṅkojjayinyoḥ
antarālam yojanānām śatadvayam | laṅkātaḥ dūrat uttareṇa kumārī | tathā ca
kumāryujjayinyoḥ antarālam na yojanaśatadvayam api pūryate | ujjayinyāḥ
gaṅgādvāaram na yojanaśatamātram api | evam gaṅgādvāarakumāryantarālam
yojanaśatatrāyam api na pūryate, kim ucyate yojanasahasram iti | atha anye manyante
viṣayāntarabahutvāt bhuvāḥ mahattvam iti | yathā pāraśava-kulaparvata-[ku]ru-
prabhṛtayaḥ deśāḥ yojanaśatasāṅkhyayā śrūyante, tena bhuvāḥ mahattvam
iti | tat ca na, golākāratvāt bhuvāḥ | tatpṛṣṭḥaparidhyuparicakravyavasthitāḥ ete deśāḥ iti
etat sarvam eva sambhavati | athavā tatra alpapramāṇāni yojanāni śrūyante, yena
ekena divasena viṃśatimātrāṇi yojanāni gacchanti iti | tasmāt etāvān eva bhūvyāsaḥ |
bhūvyāsaḥ gaṇitena api ānetum śakyate | tat yathā ā sphuṭatithiḥ tāvat sūryagrahaṇe
pūrvāparayoḥ kapālayoḥ pare [= parame tithau] vijñāyate eva | tatra parāyām
[=amāyām] tithau udayāstamayayoḥ catasraḥ nāḍikāḥ apacīyante upacīyante vā | tatra
kāle dṛggyā vyaśārdham, ādityasya [lambanam] madhyamagatyā tisraḥ liptāḥ
ṣaṭpañcāśadvilīptāḥ ca [3' 56"] | candramasaḥ api dvāpañcāśalliptikāḥ sārdhāḥ [52' 30"]
| ubhayoḥ api sūryācandramasoḥ viparītakarmanā
svābhiḥ svābhiḥ lambanalīptābhiḥ svayojanakarṇāvabhyasya, dṛgगतियया
vyāśārdhatulyayā vibhajya, sūryācandramasoḥ bhūvyāśārdham pṛthak pṛthak labhyate |
taddviguṇam bhūvyāsaḥ | ataḥ suṣṭhu uktam ācāryeṇa "ñilā bhūvyāsaḥ" iti |

arkaḥ ca induḥ ca arkendū, tayōḥ arkendvoḥ, vyāsaḥ iti anuvartamānāt, ghriṇā
catuścatvāriṃśacchatāni daśottarāṇi [4490] arkasya vyāṃsaḥ | indoḥ giṇa śatatrāyam
pañcadaśottaram [315] | sūryācandramasoḥ yojanavyāsau etau | liptābhiḥ vyavahāraḥ

iti liptāvyāsaḥ kriyate ā yadi svayojanakraṇena vyāsārdhaliptāḥ labhyante tadā
yojanavyāsaḥ kiyantaḥ iti liptāvyāsalabdhiḥ, madhyamayojanakraṇena madhyamaḥ,
sphuṭena sphuṭaḥ | ka meroḥ | meroḥ ekayojanam vyāsaḥ
| etat api ca "meruḥ yojanamātraḥ" [golapādaḥ, 11] iti asyām kārikāyām vakṣyāmaḥ |

bhṛgu-guru-budha-śani-bhaumāḥ | bhṛguḥ ca guruḥ ca budhaḥ ca śaniḥ ca bhaumaḥ ca
bhṛgugurubudhaśanibhaumāḥ | atra api ṣaṣṭyā nirdeśaḥ yuktaḥ,
bhṛgugurubudhaśanibhaumānām vyāsaḥ iti | na etat asti | yadā vyatirekaḥ vivakṣitaḥ
tadā vyatirekalakṣaṇā ṣaṣṭhī bhavati | yadā punar vyatirekan eva na vivkṣitaḥ tadā
ṣaṣṭhī na utpadyate | tat yathā kaścit kañcana bravīti "ādityasya bimbam paśa" iti |
tadābimbavyatirekaṇa ādityaḥ, ādityavyatirekaṇa vā bimbam
nirdiṣṭam bhavati | yadā punar avyatirekavivakṣā tadā yat eva bimbam sa eva ādityaḥ |

na ĩkṣeta udyantam ādityam na astam yāntam kadācana
[manuṣṛtiḥ, 4.37]

iti ādi | atra api ayam eva | bimbāvyatiriktāḥ grahāḥ nirdiśyante | śaśi-ña-ña-ṇa-na-ma-
amśakāḥ | śaśivyāmsasya anantaroktasya ña-ña-ṇa-na-māṃśakāḥ, ete bhṛgu-guru-
budha-śani-bhaumāḥ | śaśivyāsasya nāṃśaḥ bhṛguḥ pañcabhāgaḥ, nāṃśaḥ guruḥ
daśabhāgaḥ, nāṃśaḥ budhaḥ pañcadaśabhāgaḥ, nāṃśaḥ śaniḥ viṃśatibhāgaḥ,
māṃśaḥ bhaumaḥ pañcaviṃśatibhāgaḥ | etāni candrakakṣyāpramāṇaparimāṇāni
grahāṇām vyāsayojanāni |

atha kim iti svakakṣyāpramāṇasambhavāni eva ca yojanāni na ucyante? ayam
ācāryasya abhiprāyaḥ ā yadi grahāṇām svakakṣyāniṣpannāni vyāsayojanāni
abhidhīyante tadā vyāsaliptānayane svakakṣyotpannāḥ sphuṭayojanakraṇāḥ
bhāgaḥārāḥ syuḥ, lambanadrkkṣepalīptānayane ca | tathā grahāṇām manāg api

lambanadrkkṣepalīptāḥ na syuḥ | drśyante ca teṣām lambananativiśeṣāḥ | tadartham
atra bhāgahārāḥ pradarśyante | katham? śāsi-ṇa-ṇa-ṇa-na-ma-aṃśakāḥ
iti | śāśivyāsasya yojanapramāṇasya līptānayane śāśiyojanakarnaḥ bhāgahārāḥ | tena
sa bhāgahārāḥ pañcādibhiḥ guṇyate | sa tāvat chedaḥ śāśivyāsaḥ śukrādivyāsaḥ
bhavati |

śukrasya

315

171885;

guroḥ

315

343770;

budhasya

315

515655;

śaneḥ

315

687540;

bhūtanayasya

315

859425;

uparimāṃśaḥ vyāsārdhena guṇitaḥ chedena vibhaktaḥ līptāgataḥ grahavyāsaḥ bhavati
madhyamaḥ | sphuṭārtham punar yathā ā svabhūtārāgrahavivareṇa chedān
saṃguṇayya vyāsārdhena vibhajet, sphuṭāḥ bhavanti | te eva grahayogeṣu
bhūvyāsārdhaguṇitasya svadrggateḥ svadrkkṣepasya ca bhāgahārāḥ, phalam
lambanāvanatīlīptāḥ iti |

catvāri māsāni vakṣyante saura-sāvana-nākṣatra-cāndrāṇi | tatra na jñāyate kena

mānena śāstre asmin vyavahāraḥ kartavyaḥ iti ataḥ āha ā samārkasamāḥ | samāḥ
varṣam, samāḥ asmin śāstre arkasamāḥ | arkeṇa varṣeṇa vyavahartavyam asmin |
asya eva niścayāvagamanārtham vakṣyati "ṣaṣṭyā sūryābdānām" [kālakriyāpādaḥ, 12]
iti ādi | evam idam ṣaṣṭham gītikāsūtram || 7 ||

[paramāpakramaḥ grahavikṣepāḥ ca]

ete grahāḥ svakakṣyāsu bhramantaḥ viṣuvate uttarena dakṣiṇena ca vyāvartamānāḥ
lakṣyante | tasmāt tatparijñānārtham āha ā

bhāpakramaḥ grahāṃśāḥ,
śaśivikṣepaḥ apamaṇḍalāt jhārdham |
śani-guru-kuja kha-ka-ga-ardham,
bhṛgu-budha kha, scāṅgulaḥ ghahastaḥ nā || 8 ||

bhāpakramaḥ, grahāṃśāḥ, śaśivikṣepaḥ, apamaṇḍalāt, jhārdham, śani-guru-kuja, kha-
ka-ga-ardham, bhṛgu-budha, kha scāṅgulaḥ, ghatastaḥ, nā |

bha caturviṃśatiḥ | bha eva apakramaḥ bhāpakramaḥ | prāṇmukha[gamanena]
yaddakṣiṇena uttarena vā samarekhātaḥ apagamanam apakramaḥ | keṣām ayam
apakramaḥ kimātmakaḥ vā caturviṃśatiḥ iti āha ā grahāṃśāḥ | grahāṇām ādityādīnām
ete aṃśakāḥ rāseḥ triṃsadbhāgāḥ | samarekhātaḥ uttarena caturviṃśatibhāgān grahaḥ
apakrāmati meṣavṛṣamithuneṣu krameṇa, tān eva apakramabhāgān utkrameṇa
karkaṭakasimḥakanyāsu nivartate; dakṣiṇena
tulāvṛścikadhanuḥṣu [krameṇa] tān eva utkrameṇa makarakumbhamīneṣu iti |

atra grahagrahaṇam kim artham kriyate? grahāṇām sarveṣām eva ete

apakramāṃśakāḥ yathā syuḥ iti, anyathā hi keṣām eva syuḥ | na etat asti | atra grahāḥ
prakrāntāḥ teṣām prakṛtatvāt grahāṇām eva ete aṃśakāḥ na anyeṣām | avaśyam
grahagrahaṇam kartavyam | apakramamaṇḍalāt vikṣepāṃśāḥ ucyante |
apakramamaṇḍalāt jhārdham candraḥ vikṣipati tathā śanigurukujabhṛgubudhāḥ svān
bhāgān vikṣipanti | yasmāt candrādīnām apakramamaṇḍalāt vikṣepabhāgāḥ
abhidhīyante ataḥ candrādīnām eva kevalānām apakramabhāgāḥ api syuḥ na ādityasya
| grahagrahaṇe punaḥ kriyamāṇe sarveṣām eva apakramabhāgāḥ siddhyanti iti |

śaśivikṣepaḥ apamaṇḍalāt jhārdham | śaśinaḥ vikṣepaḥ śaśivikṣepaḥ | saḥ
apamaṇḍalāt | apa-maṇḍalam apakramamaṇḍalam, tasmāt apakramamaṇḍalāt,
uttareṇa dakṣiṇena vā candrasya vikṣepaḥ | viśuvan maṇḍalāt apakramaḥ uttareṇa
dakṣiṇena vā, apakramamaṇḍalam [ca], tasmāt vikṣepaḥ uttareṇa dakṣiṇena vā |
jhārdham, jhakāreṇa nava, jhasya ardhham jhārdham, ardhonapañcabhāgāḥ
candramasaḥ vikṣepaḥ | tathā eva apakramamaṇḍalāt eva śeṣāṇām
api grahāṇām vikṣepāḥ |

śani-guru-kuja kha-ka-gārdham | śanigurukujānām yathāsaṅkhyena, śaneḥ kha, dvau
[bhāgau] vikṣepaḥ; guroḥ ka, ekaḥ bhāgaḥ; kujasya gārdham, gakāreṇa trayaḥ bhāgāḥ,
gasya ardhham gārdham, sārdhaḥ aṃśaḥ | bhṛgu-budha kha | bhṛgubudhayoḥ kha-
saṅkhyā vikṣepaḥ dvau bhāgau | atra "bhṛgubudhaśanīnām kha" iti ucyamāne
khakāragrahaṇam ekam na kartavyam bhavati, tat kim iti ācāryeṇa pṛthak pāṭhena dviḥ
khakāragrahaṇam kṛtam? ucyate ā pṛthak
pṛthak karmapradarśanārtham; śanigurukujānām ekam vikṣepakarma bhṛgubudhayoḥ
anyat, tasmāt etat karmadvayam iti pṛthak pṛthak pāṭhāt eva siddhyati |

"nṛṣi yojanam" iti atra puruṣaḥ eva kevalaḥ abhihitāḥ | saḥ puruṣaḥ katyaṅgulaḥ,
katihastaḥ vā iti etat na upadiṣtam | tadartham āha ā scāṅgulaḥ | sakāreṇa navatiḥ,

cakāreṇa ṣaṭ, scāṅgulaḥ ṣaṇṇavatyaṅgulaḥ | aṅgulasya pramāṇam gaṇitaparibhāṣātaḥ
pratipattavyam ā aṣṭau yavamadhyānyaṅgulapramāṇam iti ādi | ghahastaḥ caturhastāḥ
| nā puruṣaḥ | nanu ca "nṛṣiyojanam" iti atra eva etat vaktum yuktam | evam manyante |
yathā iṣṭagrahayogeṣu antaram
vikṣepalīptāḥ labhyante | aṅgulāni hastān ca kṛtvā grahayoḥ antaram avadhāryam iti |
evam api vijñāyate eva kiyatībhiḥ līptābhiḥ aṅgulam bhavati iti | atra svadhiyā
pratidinagrahacāragāṇitanipuṇatayā abhyūhyam | uddeśataḥ tu svadhiyā upalakṣitam
ucyate ā

yoge pādāṅgulam līptā yathā vā lakṣyate dṛśā |
[mahābhāskarīyam, 6.55]

iti | evam idam saptamam gītikāsūtram || 8 ||

[grahoccapātasthānāni]

candrapātāt pravṛttasya candramasoḥ vikṣepaḥ sādhyate | anirdiṣṭatvāt pātasya,
grahāṇām punaḥ kasmāt prabhṛti vikṣepaḥ sādhyante eva iti etat na jñāyate | ataḥ
teśām pātabhāgānām mandoccabhāgānām ca pratipādanāya āha ā

budha-bhṛgu-kuja-guru-śani na-va-
rā-ṣa-ha gatvā aṃśakān prathamapātāḥ |
savituḥ amīṣām ca tathā
dvā-ñakhi-sā-hdā-hlya-khicya mandoccam || 9 ||

budha-bhṛgu-kuja-guru-śani avibhaktikaḥ nirdeśaḥ, na-va-rā-ṣa-ha ayam api

avibhaktikaḥ, gatvā, aṃśakān, prathamapātāḥ, savituḥ, amīṣām, ca, tathā, dvā űakhi sā
hdā hlya khicya etāni api dvādīni avibhaktikāni, mandoccam |

budha-bhṛgu-kuja-guru[-śani] avibhaktikam etat grahaṇakavākyam | sūtrāṇām
sopasaṃskāratvāt saṃskāram apekṣate | kaḥ asya saṃskāraḥ? prakrāntadyotikayā
vibhaktiyā saṃyogaḥ, budha-bhṛgu-kuja-guru-śanīnām iti | eteṣām budhādīnām
"nā"dayaḥ aṃśāḥ | yathāsaṅkhyena budhasya na viṃśatiḥ, bhṛgoḥ va ṣaṣṭiḥ, kujasya rā
catvāriṃśat, guroḥ ṣa aśītiḥ, śaneḥ ha śatam | etān aṃśakān gatvā, eteṣām budha-
bhṛgu-kuja-guru-śanīnām prathamapātāḥ vyavasthitāḥ
iti | prathamapātagrahaṇam dvitīyapātānirākaraṇārtham | yadi prathamapātagrahaṇam
na kriyate tadā sāmānyena dvayoḥ api pātayoḥ grahaṇam syāt | tathā ca
vikṣepādigrahaṇe niścayaḥ na syāt, yasmāt prathamapātāt uttarena grahāṇām
vikṣepaḥ bhavati, dvitīyāt pātāt dakṣiṇena | uktam ca ā

prathamāt pātāt śaśinaḥ apamaṇḍalasya uttarena vikṣepaḥ |
vikṣepaḥ dakṣiṇataḥ punar api pātāt dvitīyāt ca ||

iti | ete eva pātāḥ ṣaḍrāśiyutāḥ dvitīyapātāḥ bhavanti | atra "gatvā aṃśakān
prathamapātāḥ" iti ucyate | yadi grahapātāḥ calanti tadā evam yuktam vaktum ā etān
aṃśakān gatvā prathamapātāḥ vyavasthitāḥ iti | bādham calanti ete grahapātāḥ,
anyathā hi ayam nirdeśaḥ eva na ghhaṭate "gatvā aṃśakān" iti | yadi eteṣām
grahapātānām [gatiḥ tarhi] candrapātavat yugabhagaṇanirdeśaḥ kim iti ācāryeṇa na
kriyate ? anyat ca, yadi eteṣām gatiḥ syāt grahavikṣepāḥ na sphuṭāḥ
bhaveyuḥ | atyantasūkṣmā eṣām gatiḥ, mahatā kālena kiyatī upacīyate, tataḥ stokatvāt
antarasya vikṣepāḥ sphuṭāḥ eva lakṣyante | ācāryeṇa gatimatvam pātānāt nirdeśatā
teṣām gatiḥ api nirdiṣṭā eva "yasmāt iṅgiteṇa, ceṣṭiteṇa, nimiṣiteṇa, mahatā vā
sūtraprabandhena ca, ācāryāṇām abhiprāyaḥ gamyate" | tasmāt anena eva

sūtrabandhena grahapātānām gatimatvam upadiṣatā teṣām yugabhagaṇān muktakāt
eva nirdiṣṭavān, anyathā hi teṣām gatimatvanirdeśaḥ anarthakaḥ
syāt | sampradāyāvicchedāt smaranti vṛddhāḥ tat yugabhagaṇam | tat yathā ā

vasvabdhiyamāśvikhabāṇādrīṣuhutāśanaḥ yugābdagaṇaḥ |
pātānām śatagaṇitaḥ muktakakathitam kila āryeṇa ||
ekatridvicaturīṣūn kramaśaḥ bhagaṇān prayānti sarveṣām |
kalpādeḥ gatakālāt gaṇanīyam ataḥ gatiḥ teṣām ||

tadānayanam idānīm ā kalpādeḥ abdanirodhāt ayam abdarāśiḥ iti īritaḥ
khāgnyadrirāmārkarasavasurandhrendavaḥ | te ca aṅkaiḥ api 1986123730 | asmin
budhādipātabhagaṇagaṇite svayugavibhakte bhagaṇādayaḥ pātabhogāḥ labhyante |
pātayugapramāṇam sarveṣām eva "khākāśāṣṭakṛtadvidvivyomeṣvadriṣuvahnayaḥ"
aṅkaiḥ api 35750224800 | etaiḥ yugavarṣaiḥ budhasya pātaḥ bhagaṇam ekam bhūkte,
śukrasya trīṇi, kujasya dvau, guroḥ catvāraḥ, śanipātaḥ
pañca | eteṣām yathāsvam labdhāḥ pātabhāgāḥ yathāpāṭhitāḥ, etat eva guruśanaiḥ
carayoḥ ekā tatparā [ca] labhyate |

ayam aparaḥ prakāraḥ ā budha-bhṛgu-kuja-guru-śani | prathamābahuvacanasamskṛtam
idam grahaṇakavākyam vyākhyāyate budha-bhṛgu-kuja-guru-śanayaḥ | na-va-rā-ṣa-ha
iti etān aṃśakān meṣādiparamāṇoḥ prabhṛti gatvā prathamapāteṣu vyavasthitāḥ iti
arthaḥ | atra "tātsthyāt tēcchābdyam", yathā "mañcāḥ krośanti", mañcastheṣu krośatsu
mañcāḥ krośanti iti ucyate | evam atra api prathamapātavyavasthitān eva grahān
prathamapātaḥ iti uktavān | tadā tāvantaḥ
eva bhāgāḥ, na ete calanti | yadi api kaiścit eṣām gatiḥ ucyate tathā api asmākam
nādaraḥ, yena atimahatā api kālena manāg api antaram na bhavati, yataḥ kaliyugānte
śanaiḥ carapātasya tisraḥ liptāḥ, na kiñcit antaram | kaliyuge ca parisamāpte sarvam

eva jagat pralīyate, pralīne ca jagati punar anyā sṛṣṭiḥ jāyate, tatra na jānīmaḥ kim bhaviṣyati iti | atha ca antare ne kiñcit antaram, na kaścit viśeṣaḥ | yat api uktam ācāryeṇa tat śāstrabhāvaprakriyāsampradāyāvicchedapradarśanārtham | anyathā hi anantatvāt kālasya gatiḥ eṣām alpā api upacīyamānā mahatī sañjāyate | sā ca anyathā na pratipattum śakyate iti pātayugabhagaṇanirdeśaḥ |

savituḥ amīṣām ca | savituḥ ādityasya, amīṣām ca grahāṇām budhabhṛgukujaguruśanīnām mandoccabhāgāḥ, kena eva prakāreṇa savituḥ dvā aṣṭasaptatibhāgāḥ, budhasya ñakhi śatadvayam daśottaram, bhṛgoḥ sā navatiḥ, kujasya hdā śatam aṣṭādaśottaram, guroḥ hlya sāsītikam śatam, śaneḥ khicya śatadvayam ṣaṭtriṃśaduttaram mandoccam | ete bhāgāḥ eṣām grahāṇām pṛthak pṛthak mandoccam | mandoccānām bahutvāt mandoccāni iti bhavitavyam | na etat asti | sāmānyopakramaḥ atra kṛtaḥ, yathā ā "rakṣohāgamalaghvasandehāḥ prayojanam" [aṣṭādhyāyī, 1.1.1., pātañjalabhāṣyam] iti, evam atra api "dvā ñakhi sā hdā hlya khicya mandoccam" |

atra śīghroccam mandoccam iti | yasya śīghrā gatiḥ tat śīghroccam, yasya punar gatiḥ eva na asti tat mandoccam iti | katham? ucyate | loke ā "śīghraḥ devadattaḥ" yaḥ hi kṣiprataram gacchati sa śīghraḥ, "mandaḥ yajñadattaḥ" iti yaḥ hi mandataram gacchati sa mandaḥ | evam atra api yasya atīśīghragatiḥ grahagateḥ tat śīghroccam | yasya punar grahagateḥ alpīyasī gatiḥ [tat mandoccam] | evam grahāṇām api yuktam eva etat |

atha kim iti mandoccatigatiḥ na abhihitā? ucyate ā sūkṣmatvāt ācāryasya na atra ādaraḥ, mahatā api kālena na kiñcit eva antaram bhavati | api ca muktakena eva ācāryeṇa abhihitam iti sampradāyāvicchedāt avadhāryate | athavā gatvā aṃśakān savitrādīnām mandoccāni vyavasthitāni iti vyākhyāyate | anyathā hi "tathā"-śabdaḥ sārthakaḥ na syāt

| yathā budhādīnām prathamapātāḥ "nā"dīn aṃśakān gatvā vyavasthitāḥ, evam eteṣām savitrādīnām mandoccāni

"dvā"dīn aṃśakān gatvā vyavasthitāni iti | teṣām ca mandoccānām atyantasūkṣmatvāt varṣagaṇena eva ācāryeṇa yat ākhyātam tat eva avyavacchinnaśampradāyapratipattiyā abhidhīyate | tat yathā ā

aṣṭīkṛtādryaṣṭīnavājaiḥ uccayugam tigmadīdhiteḥ uktam |
daśaghanaguṇitaiḥ abdaḥ viśvān bhūṅkte kramāt bhagaṇān ||
dantāṣṭābdhyagniguṇāṣṭarāmayamalāḥ yugam bhavati abdhāḥ |
śataguṇitāḥ śaśijasya prāhuḥ bhagaṇān ca sapta eva ||
vyomāambaravedakṛtacchidrābdhikṛtābdhinandaśailābdāḥ |
śukrasya ardham sūreḥ bhagaṇaḥ bhogaḥ tayoh ekaḥ ||
vyomāmbaraśūnyakṛtāśvirudraśaraśailavasumunīndusamāḥ |
asitoccayugam kaujam dviguṇan bhaga[ṇā]naveṣavastu tayoh ||
kalpādikālagāṇitā mandoccānām bhavanti yā gatayaḥ |
"gatvā"śabdāt etat vyākhyātā bhāskareṇa atra ||

tat yathā ā mandoccānayanam pratyeteṣām kalpādeḥ abdanirodhāt gatakālah
khāgnyadrirāmārkarasavasurandhrendavaḥ, te ca 1986123730 | eteṣu varṣeṣu
yathāsvam mandoccabhagaṇaguṇiteṣu svayugābdavibhakteṣu ravyādīnām
mandoccānām rāśibhāgādayaḥ labhyante | eteṣām api kaliyugānte api alpam antaram,
yataḥ ca śanaiḥ carasya api saptamātrā liptā mandoccasya upacayaḥ, na kaścit
phalaviśeṣaḥ | yathā api tu śāstrasampradāyāvicchittikathane grahapāteṣu uktam
tat atra api avadhāraṇīyam iti | evam idam aṣṭamam gītikāsūtram || 6 ||
[ojaḥpadayoḥ mandaśīghraparidhayaḥ]

mandaśīghroccaparidhipramāṇapratipādanāya āha ā

jhārdhāni mandavṛttam

śāśinaḥ cha, ga-cha-gha-ḍha-cha-jha yathā uktebhyaḥ |

jhā-gḍa-glā-rdha-dḍa tathā

śāni-guru-kuja-bhṛgu-budhoccaśīghrebhyaḥ || 10 ||

jhārdhāni, mandavṛttam, śāśinaḥ, cha ga cha gha ḍha cha jha ete chādayaḥ
avibhaktikanirdeśāḥ, yathā uktebhyaḥ, jhā-gḍa-glā-rdha-dḍa avibhaktikaḥ nirdeśāḥ,
tathā śāni-guru-kuja-bhṛgu-budhoccaśīghrebhyaḥ |

jhārdhāni | jhasya ardhāni jhārdhāni | vakṣyamāṇāni mandaśīghroccavṛttāni
jhārdhapramāṇāni pratipattavyāni | mandavṛttam iti ekavacananirdeśāḥ | "pratyekam
vākyaparisamāptiḥ" [aṣṭādhyāyī, 1.1.1, pātañjalabhāṣyam] iti anena nyāyena
mandavṛttam śāśinaḥ cha, sapta jhārdhāni, sārdhaikatrimśat bhāgāḥ; yathā uktebhyaḥ
mandoccabhāgavidhānakrameṇa savitr-budha-bhṛgu-kuja-guru-śānayaḥ parigrhyante |
savituḥ ga, trīṇi jhārdhāni, sārdhatrayodaśabhāgāḥ
| budhasya cha, sapta jhārdhāni, sārdhaikatrimśadbhāgāḥ | bhṛgoḥ gha, catvāri
jhārdhāni, aṣṭādaśabhāgāḥ | kujasya ḍha, caturdaśa jhārdhāni, triṣaṣṭibhāgāḥ | guroḥ
cha, sapta jhārdhāni, sārdhaikatrimśadbhāgāḥ | śaneḥ jha, nava jhārdhāni,
sārdhacatvārimśadbhāgāḥ | yathā uktebhyaḥ yathā uktam yathoktam, tebhyaḥ yathā
uktebhyaḥ | savitrādīnām ca mandoccebhyaḥ | nanu ca atra sambandhalakṣaṇayā
ṣaṣṭhyā bhavitavyam, yathā uktānām iti | na etat asti | yathā uktebhyaḥ
iti anayā pañcamyā mandoccaśīghrebhyaḥ rāśibhyaḥ mandoccat adhikebhyaḥ
rāśibhyaḥ vā rāśyādibhyaḥ jyāvibhāgena ete paridhayaḥ guṇakārāḥ | yathā uktebhyaḥ
iti anena eva vacanena mandoccam grahamadhyāt pātyate, pariśiṣṭasya
jyāsaṅkalanāya trairāśīkam kriyate | paridhisamskārakaraṇam ca
trairāśīkaprasiddhyartham | yady asya ṣaṣṭīśatatrāyaparidheḥ iyam jyā tataḥ

abhīṣṭagrahaparidheḥ kā jyā labhyate | sā eva jyā bhujāphalam koṭiphalam ca iti
abhidhīyate

| tatra jhārdhena apavartya ṣaṣṭīśatatrāyaparidhim yathā uktāḥ ca grahaparidhayaḥ
jhārdhāpavartitāḥ | tena guṇakārabhāgahārayoḥ jhārdhāpavartitayoḥ karmaṇi
kriyamāṇe iṣṭajyāyāḥ aśītiḥ bhāgahāraḥ yathoktākṣarasāṅkhyāparidhayaḥ guṇakārāḥ |

śīghroccaparidhayaḥ ā jhā, nava jhārdhāni, catvāriṃśat sārdhāḥ bhāgāḥ śaneḥ | gḍa,
ṣoḍaśa jhārdhāni, dvāsaptaṭibhāgāḥ guroḥ | glā, tripañcāśat jhārdhāni, śatadvayam
aṣṭatriṃśaduttaram sārdham bhāgānām kujasya | rdha, ekonaṣaṣṭiḥ jhārdhāni,
pañcaṣaṣṭyadhikaśatadvayam sārdham bhāgānām bhṛgoḥ | dḍa ekatriṃśat jhārdhāni,
ekonacatvāriṃśaduttaram śatam sārdham bhāgānām budhasya | śani-guru-kuja-bhṛgu-
budhoccaśīghrebhyaḥ |

śani-guru-kuja-bhṛgu-budhānām uccaśīghrāḥ tebhyaḥ śani-guru-kuja-bhṛgu-
budhoccaśīghrebhyaḥ |

śīghroccebhyaḥ iti vaktavye uccaśīghrebhyaḥ iti viparītanirdeśam kurvan ācāryaḥ
jñāpayati ā śīghroccāt grahaḥ śodhyate iti | tasmāt śuddhaśeṣāt jyā utpādyante | tābhiḥ
trairāśīkam pūrvavat | pūrvam ācāryeṇa mandakrameṇa grahāḥ nirdiṣṭāḥ | śaśī
sarvebhyaḥ śīghraḥ lakṣyate, tasmāt mandaḥ savitā, tataḥ mandaḥ budhaḥ, tathā
uttaram bhṛgu-kuja-guru-śanayaḥ | ayam punar śīghrakramaḥ, śani-guru-kuja-bhṛgu-
budhāḥ iti | ete śanyādayaḥ yathā uttaram
śīghrāḥ | evam idam navamam gītikāsūtram || 10 ||

[yugmapadayoḥ mandaśīghraparidhayaḥ]

etebhyaḥ eva mandaśīghrebhyaḥ dvitīyacaturthapadaparidhipramāṇaparijñānāya āha ā

mandāt na-kha-da-ja-dā
vakriṇām dviṭīye pade caturthe ca |
jā-ṇa-kla-chla-jhna uccāt
śīghrāt, giyīṅśa kuvāyukakṣyā antyā || 11 ||

mandāt, na kha da ja dā iti etāni avibhaktikāni, vakriṇām, dviṭīye, pade, caturthe, ca, jā
ṇa kla chla jhna etāni avibhaktikāni, uccāt, śīghrāt, giyīṅśa avibhaktikaḥ, kuvāyukakṣyā,
antyā |

mandāt | tathā eva mandoccaviśuddhāt rāśyādikāt utpannāyāḥ jyāyāḥ ete
paridhisamjñitāḥ guṇakārāḥ | tathā eva jhārdhapramāṇaparimitāḥ ā budhasya na,
pañca jhārdhāni, dvāviṃśatissārdhabhāgāḥ, bhṛgoḥ kha, dve jhārdhe, nava bhāgāḥ |
kujasya da, aṣṭādaśa jhārdhāni, ekāśītibhāgāḥ | guroḥ ja, aṣṭau jhārdhāni,
ṣaṭtriṃśadbhāgāḥ | śaneḥ dā, trayodaśa jhārdhāni, aṣṭapañcāśat sārdhabhāgāḥ |

vakriṇām dviṭīye pade caturthe ca | vakram yeṣām te vakriṇaḥ | vakriṇaḥ iti anena
śāśisavitroḥ agrahaṇam, yena tayoh vakrā gatiḥ na asti | vakriṇaḥ ca budha-bhṛgu-kuja-
guru-śanayaḥ | teṣām ete paridhayaḥ | dviṭīye pade caturthe ca | ye pūrvābhīhitāḥ
paridhayaḥ te utsargeṇa caturṣu padeṣu prāptāḥ | teṣām dviṭīyacaturthayoḥ padayoḥ
ete paridhayaḥ apavādena abhidhīyante | dviṭīyacaturthapādavyatirekeṇa
pūrvoktaparidhīnām viśayaḥ | cakāraḥ dviṭīyeṣu
ca caturtheṣu ca iti etat artham samuccinoti |

athavā ā vakriṇām dviṭīye pade | ete budhādayaḥ grahāḥ dviṭīye pade vakriṇaḥ bhavanti
| vakrām gatim caranti iti arthaḥ | nanu ca mandagrahaṇānantaram dviṭīye pade
vakriṇaḥ iti ucyante, tena mandoccasya dviṭīyapade vakraparijñānam prāpnoti, tat ca na
iṣyate | na etat asti | vakriṇaḥ dviṭīye pade budhādayaḥ iti sāmānyena ucyate |

"sāmānyacodanāḥ ca viśeṣe avatiṣṭhante " iti viśeṣe avasthāpyate | kaḥ ca viśeṣaḥ ?
śīghroccadvitīyapade eteṣāṃ budhādīnāṃ
vakraparijñānam iti ayam viśeṣaḥ | uktam ca ā

mandoccāt anulomam pratilomam ca eva śīghroccāt |
[golaí, 17]

iti | caturthe ca | ete paridhayaḥ dvitīye caturthe ca pade guṇakārāḥ | dvitīye eva pade
vakraparijñānam anyatra api ā

prathame dṛśyavidhānam dvitīyapadagāḥ tu vakragāḥ sarve |
anuvakragāḥ tṛtīye pade caturthe astam upayānti || iti |

jā ṇa kla chla jhna | śīghroccāt dvitīyacaturthayoḥ padayoḥ paridhayaḥ | śaneḥ jā, aṣṭau
jhārdhāni, ṣaṭtriṃśadbhāgāḥ | guroḥ ṇa, pañcadaśa jhārdhāni, saptaṣaṣṭiḥ
sārdhabhāgāḥ | kujasya kla, ekapañcāśat jhārdhāni, ardhonakam triṃśaduttaram
śatadvayam bhāgānām | bhṛgoḥ chla, saptapañcāśajjhārdhāni, sārdham
ṣaṭpañcāśaduttaram śatadvayam bhāgānām | budhasya jhna, ekonaviṃśajjhārdhāni
triṃśaduttaram śatam sārdham bhāgānām |

uccāt śīghrāt | atra api śīghroccāt iti vaktavye uccāt śīghrāt iti viparītagrahaṇam
kurvannāccāryaḥ jñāpayati ā śīghroccāt grahaḥ śodhyate iti | padacatuṣṭayagrahaṇāt ca
karmacatuṣṭayam ā prathamam mandocakarma, tadanantaram śīghrakarma, punar
mandakarma, tadanantaram śīghrakarma | tataḥ grahasphuṭaḥ labhyate | ravicandrayoḥ
ekaparidhinirdeśāt ekam eva karma |

atha kaścit jyārahitam karma kartum icchati, tadartham āha ā giyiṃśa kuvāyukakṣyāntyā

| trayastriṃśacchatāni pañcasaptatyadhikāni [3375] kuvāyukakṣyāpramāṇam | kuḥ
bhūḥ, kuvāyuḥ bhūsambandhī vāyuḥ, tasya iyam antyā kaksyā | etāvataḥ
vāyukakṣyāparicchinākāśapradesāt parataḥ niyataḥ vāyuḥ yena niyatagatinā
pravahena jyotiścakram idam bhrāmyate | kuvāyukakṣyāpramāṇaparicchināt
ākāśapradesāt ārādanīyatāḥ vāyavaḥ itaḥ tataḥ paribhramanti
|

kuvāyukakṣyāyāḥ grahakarma ā ye abhīṣṭāḥ bhāgāḥ tān cakrārdhabhāgebhyaḥ
viśodhya śeṣam taiḥ eva abhīṣṭabhāgaiḥ guṇitam pratirāśya ekam kuvāyukakṣyāyāḥ
dvādaśaguṇitāyāḥ śodhyate, tataḥ śeṣasya yaḥ caturthoṃśaḥ sa bhāgahāraḥ | yat
pratirāśitam tat antyaphalena guṇitam bhāgahāreṇa vibhajet | labdham abhīṣṭaphalam |
uktam ca asmābhiḥ karmanibandhe ā

makhyādirahitam karma kathyate tatsamāsataḥ |
cakrārdhāṃśakāsasūhāt viśodhyāḥ ye bhujāṃśakāḥ ||
taccheśaguṇitāḥ dviṣṭhāḥ śodhyāḥ khakheṣukhābdhitaḥ |
śeṣasya caturthāṃśena dviṣṭham antyaphalāhatam ||
bāhukoṭyoḥ phalam kṛtsnam kramotkramaguṇasya vā |
[mahābhāskarīyam, 7.17-19]
iti daśamam gītikāsūtram || 11 ||

[caturviṃśatijyārdhāni]

atra aśeṣagrahakarma, tat ca jyāpratibandham iti ataḥ jyādarśanārtham āha ā

makhi bhakhi phakhi dhakhi ṇakhi ñakhi
ṇakhi hasjha skaki kiṣga śghaki kighva |

ghlaki kigra hakya dhaki kica

sga jhaśa ŋva kla pta pha cha kalārdhajyāḥ || 12 ||

"makhi"ādayaḥ nigadena eva vyākhyātāḥ | kalārdhajyāḥ | kalāḥ ca tāḥ ardhajyāḥ ca
kalārdhajyāḥ | etāḥ jyāḥ liptāpramāṇaparimitāḥ | ardhajyābhiḥ yataḥ śāstravyavahāraḥ
tena ardhajyā eva uktā || 12 ||

[daśagītikāsūtraparijñānaphalam]

daśagītikāsūtraparijñānaphalapradaśanāya āha ā

daśagītikasūtram idam

bhūgrahacaritam bhapañjare jñātvā |

grahabhagaṇaparibhramaṇam

sa yāti bhittvā param brahma || 13 ||

atra paribhāṣāgītikāḥ daśagītikāḥ grhyante | etat daśagītikasūtram bhūgrahacaritam |
bhuvī loke | grahāṇām caritanibandhanatvāt etat eva daśagītikasūtram grahacaritam,
grahacaritahetutvāt vā yathāsukham kṛtam iti | bhuvī grahacaritam bhūgrahacaritam | na
anyaloke grahacaritanibandhanam asti yataḥ daśagītikasūtram tena ucyate
bhūgrahacaritam | bhapañjare jñātvā | bhapañjaraḥ golaḥ, tasmin gole tat grahacaritam
jñātvā, avagamyā, grahāṇām sphuṭagateḥ pratipattihetuḥ
yataḥ golaḥ, etat grahāṇām bhānām ca paribhramaṇamārgam bhittvā param brahma
yāti | yaḥ gole samagram daśagītikasūtrapratibaddham grahacaritam jānāti sa param
brahma yāti iti || 13 ||

daśagītikasūtrarthā vyākhyātā bhāskareṇa mandadhiyām |

pratipattaye prakāmam sarvaḥ hi samānabhūṭaye yatate ||

iti bhāskarasya kṛtau

daśagītikāsūtravyākhyā parisamāptā ||

Gaṇitapādaḥ

[maṅgalācaraṇam]

yannāmasaṃsmaraṇamātrabhavābhavāni
śreyaḥ 'śubhāni vibudhāsuramānavānām |
tasmai sakṛṣṇakamalodbhavamaulighṛṣṭa-
pādāravindayugalāya namaḥ śivāya || 1 ||

ācāryāryabhaṭaḥ tapobhiḥ amalaiḥ ārādhyā padmodbhavam
yat lebhe grahacārasāraviṣayam bījam mahārtham sphuṭam |
tasya atīndriyagocarārthanipuṇaspaṣṭorusadvastunaḥ
vyākhyānam gurupādalaabdham adhunā kiñcit mayā likhyate || 2 ||

[pratipādyavastunirdeśaḥ]

atha ācāryāryabhaṭamukhāravindavinissṛtam padārthatrayam ā gaṇitam, kālakriyā,
golaḥ iti yat etat gaṇitam tat dvividham caturṣu sanniviṣtam | vṛddhiḥ hi apacayaḥ ca iti
dvividham | vṛddhiḥ saṃyogaḥ, apacayaḥ hrāsaḥ | etābhyām bhedābhyām
aśeṣagaṇitam vyāptam | āha ca ā

saṃyogabhedā guṇanāgatāni śuddheḥ ca bhāgaḥ gatamūlamuktam |
vyāptam samīkṣya upacayaḥ śābhyām vidyāt idam dvyātmakam eva śāstram ||

saṃyogasya vṛddheḥ, bhedaḥ guṇanāgatāni | tāni ca ā asadr̥ṣayaḥ rāśyoḥ abhyāsaḥ
guṇanā, yathā caturṇām pañcānām ca viṃśatiḥ | gatam sadr̥śābhyāsaḥ vargaḥ ghanāḥ
ca | dvigatam vargaḥ, yathā caturṇām caturṇām ca ṣoḍaśa | evam trigatam ghanāḥ,
yathā caturṇām caturṇām caturṇāñ ca catuṣṣaṣṭiḥ | "śuddheḥ ca" iti atra yogārtham
cakāraḥ paṭhyate | tena śreḍhīkuṭṭākārādiṣu loke ca aniyatasvarūpavṛddhiḥ sā ca
parigrhītā bhavati | śuddheḥ ca bhāgaḥ
gatamūlamuktam | śuddheḥ apacayasya bhedaḥ bhāgaḥ, gatānām mūlāni ca | atra api
śreḍhīkuṭṭākārādi[ṣu] loke ca aniyatasvarūpaḥ apacayaḥ cakārāt eva parigrhyate | evam
śāstre, loke ca na saḥ asti gaṇitaprakāraḥ yaḥ ayam vṛddhyātmakaḥ apacayātmakaḥ vā
na bhavati |

yadi evam atra katham prakriyā parikalpanīyā? yatra caturbhāgaḥ pañcabhāgena
guṇitaḥ jātaḥ viṃśatibhāgaḥ | iyam ca guṇanā saṃyogasya bhedaḥ ucyate | sa ca ayam
śuddheḥ bhedaḥ āpatitaḥ | yatra caturbhāgena viṃśatibhāgasya bhāgaḥ, tatra dr̥ṣṭaḥ
pañcabhāgaḥ | evam ayam śuddheḥ bhedaḥ saṃyogabhedāḥ āpatitaḥ | ubhayatra
parigāraḥ ucyate ā [ekāyām avistāre caturaśrakṣetre viṃśatyāyātacaturaśrakṣetrāni |]
tatra ekasya āyāmaḥ pañcabhāgaḥ, vistāraḥ
caturbhāgaḥ | tayoh abhyāsaḥ phalam kṣetrasya viṃśatibhāgaḥ | viṃśatibhāgasya
caturbhāgaḥ pañcabhāgaḥ iti na doṣaḥ | evam kṣetragaṇite parihāraḥ | rāsiḥ gaṇite
parihārārtham yatnaḥ karaṇīyaḥ | aparaḥ āha ā "gaṇitam rāśikṣetram dvidhā" | evam
karaṇīparikarma ā

karṇabhujayoḥ samatvam karoti yasmāt tataḥ karaṇī |

gaṇitam dviprakāram ā rāśigaṇitam kṣetragaṇitam | anupātakutṭākārādayaḥ
gaṇitaviśeṣāḥ rāśigaṇite abhihitāḥ, śreḍhīcchāyādayaḥ kṣetragaṇite | tat evam
rāśyāśritam kṣetrāśritam vā aśeṣam gaṇitam | yat etat karaṇīparikarma tat kṣetragaṇite
eva | yadi api anyatre karaṇīparikarma, tathā api tasya na
karṇabujākoṭipratipādakatvam iti na doṣaḥ | etat ca karaṇīparikarmatvam
yatkarṇādipratipādakatvam | caturṣu sanniviṣṭam, catvāri bījāni, teṣu sanniviṣṭām
| uktam gaṇitam | kālakriyāgolau tatra tatra eva upadekṣyāmaḥ |
atra ācāryāryabhaṭaḥ śāstram ārabhamāṇaḥ cetasi iṣṭadevatāpraṇāmaḥ hi bhaktyā
prayuktaḥ ā

brahma-ku-śaśi-budha-bhṛgu-ravi-
kuja-guru-koṇa-bhagaṇān namaskṛtya |
āryabhaṭaḥ tu iha nigadati
kusumapure abhyarcitam jñānam || 1 ||

brahmā asya iṣṭadevatā | iṣṭadevatāpraṇāmaḥ hi bhaktyā prayuktaḥ svābhiḥ
lāṣateṣṭakāryavighātināḥ vighnān vinihanti | athavā
devāsuramukuṭamaṇimayūkhamālālaṅkṛtacaraṇatvāt sarvāsām devatānām
pradhānatamaḥ brahmā, ataḥ tasya ādau namaskriyām kṛtavān ācāryaḥ | athavā
ācāryeṇa svāyaṃbhuvāsiddhāntasamkṣepavasturacanā prastutā,
svāyaṃbhuvāsiddhāntasya ca vidhātā bhagavān vedhāḥ, tataḥ asya yujyate
prathamam praṇāmaḥ tam kartum
| akṣadeśāntarāyattā grahagatiḥ, tau ca akṣadeśāntaraviśeṣau bhūvaśāt iti tat
anantaram namaskṛtavān bhuvam | śaśyādīn upari upari avasthitān
tadgatinibandhanatvāt śāstrasya iti namaskṛtavān | brahmā ca kuḥ ca śaśi ca budhaḥ
ca bhṛguḥ ca raviḥ ca kujaḥ ca guruḥ ca koṇaḥ ca bhagaṇāḥ ca brahma-ku-śaśi-budha-

bhṛgu-ravi-kuja-guru-koṇa-bhagaṇāḥ | ataḥ tān brahma-ku-śaśi-budha-bhṛgu-ravi-kuja-
guru-koṇa-bhagaṇān, namaskṛtya praṇamya iti arthaḥ | bhāni jyotīmṣi
aśvinyādīni, teṣāṃ gaṇaḥ bhagaṇaḥ | yat atra śaśyādīnām upari upari avasthāne
vaktavyam tat kālakriyāpāde vakṣyāmaḥ | āryabhaṭaḥ iti svasaṃjñābhidhānena anyāḥ
svāyaṃbhuvāsiddhāntānusāriṇyaḥ kṛtayaḥ santi iti etat pradarsāyati | tena bahutvāt
svāyaṃbhuvāsiddhāntānusāriṇīnām kṛtīnām kena iyam kṛtiḥ kṛtā iti na jñāyate | ataḥ
svasaṃjñābhidhānam | yathā "kauṭilyena kṛtam śāstram" iti [arthaśāstram, 1.1.19] | "tu"-
śabdaḥ pādapūraṇe | ["iha"-śabdaḥ] asya puram
pradarśayati | nigadati bravīti | kusumapure abhyarcitam jñānam | kusumapuram
pāṭaliputram, tatra abhyarcitam jñānam nigadati | evam anuśrūyate ā ayam kila
svāyaṃbhuvāsiddhāntaḥ kusumapurānivāsibhiḥ kṛtibhiḥ pūjitaḥ, satsu api paulīśa-
romaka-vāsiṣṭha-sauryeṣu | tena āha ā "kusumapure abhyarcitam jñānam" iti || 1 ||

[saṅkhyāsthānanirūpaṇam]

saṅkhyāsthānanirūpaṇārtham āha ā

ekam ca daśa ca śatam ca
sahasram tu ayutaniyute tathā prayutam |
koṭyārbudam ca vṛndam
sthānāt sthānam daśaguṇam syāt || 2 ||

laghvartham saṅkhyāsthānāni prakramyante | anyathā hi saṅkhyāsthāna
nirūpaṇābhāvāt guruḥ gaṇitavidhiḥ syāt | katham? rūpabahutvasthāpanāyām rūpāṇi
bahūni sthāpayitavyāni bhavanti | satyām punaḥ sthānakalpanāyām yat rūpaiḥ
bahubhiḥ nirvartyam karma tat ekena eva nirvartayitum śakyate |

ekam ca daśa ca śatam ca sahasram | eteṣām ekadaśasatasahasrāṇām
prathamadvitīyatrīyacaturthāni sthānāni | tu pādapūraṇe | ayutaniyute ayutam ca
niyutam ca ayutaniyute | ayutasya pañcamam sthānam | daśasahasrāṇi ayutam |
niyutasya ṣaṣṭham sthānam | niyutam lakṣaḥ | tathā tena eva prakāreṇa prayutasya
saptamam sthānam | daśalakṣāḥ prayutam | koṭiḥ, koṭyāḥ aṣṭamam sthānam | lakṣāḥ
śatam, koṭiḥ | arbudam, arbudasya navamam sthānam | daśakoṭyaḥ
arbudam | vṛndam, vṛndasya daśamam sthānam | koṭiśatam vṛndam |

sthānāt sthānam daśaguṇam syāt | sthānāt sthānam anyat daśaguṇam
svaparikalpitasthānāt uttaram sthānam daśaguṇam bhavati iti yāvat | kim artham idam
ucyate | nanu ca etāni sthānāni anantarāpekṣayā daśaguṇāni eva | yadi ebhyaḥ
anyasthānaparigrahārtham vacanam tathā sati sthānābhīdhānam anarthakam | kutaḥ?
sthānāt sthānam daśaguṇam syāt iti anena eva abhihitā, abhihitasthānaparigrahasya
siddhatvāt | na eṣaḥ doṣaḥ | sthānāt sthānam daśaguṇam
syāt iti etat lakṣaṇam | ekādīni sthānāni asya lakṣaṇasya udāhṛtāni | na etat asti | na hi
sūtrakārāḥ samkṣepavivakṣavaḥ lakṣaṇam udāharaṇam brūyuh | na evam vijñāyate |
yadā lakṣaṇam udāharaṇam ca nirarthakam tarhi ekādivṛndānatāyāḥ saṅkhyāyāḥ
samjñāḥ nirūpyante | sthānāt sthānam daśaguṇam iti ekādisamkhyāyāḥ
sthānanirūpaṇamātram eva upadiśyate, upayogābhāvāt na saṅkhyāsamjñā |

atra etat praṣṭavyam ā kā eṣām sthānānām śaktiḥ, yat ekam rūpam daśa śatam
sahasram ca bhavati | satyām ca etasyām sthānaśaktau krāyakāḥ
viśeṣeṣṭakrayyabhojanāḥ syuh | krayyam ca vivakṣātaḥ alpam bahu ca syāt | evam ca
sati lokavyavahārān yathābhāvaprasaṅgaḥ | na eṣaḥ doṣaḥ | sthāne vyavasthitāni
rūpāṇi daśādīni kṛtāni | kim tarhi taiḥ? tāni pratipādyante lekhāgamanyāyena | athavā
laghvartham sthānāni prakramyante iti uktam asmābhiḥ |
nyāsaḥ ca sthānānām ā

0 0 0 0 0 0 0 0 0 0

|| 2 ||

[vargaparikarma]

vargaparikarmapradarśanāya āryāpūrvārdham āha ā

vargaḥ samacaturaśraḥ phalam ca sadṛśadvayasya saṃvargaḥ |

vargaḥ karaṇī kṛtiḥ vargaṇāḥ yāvakaraṇam iti paryāyāḥ | samāścatasraḥ aśrayaḥ yasya saḥ ayam [sama]caturaśraḥ kṣetraviśeṣaḥ, sa vargaḥ | samacaturaśrakṣetraviśeṣaḥ saṃjñī, vargaḥ saṃjñā | atra saṃjñīsaṃjñāyoh abhedena upacāreṇa ucyate "vargaḥ samacaturaśraḥ" iti | yathā "māṃsapinḍaḥ devadattaḥ" iti | anyathā atra yāvān samacaturaśrakṣetraviśeṣaḥ tasya sarvasya aniṣṭasya api vargasamjñāprasaṅgaḥ | kva anyatra aniṣṭasya samacaturaśrakṣetraviśeṣasya vargasamjñāprasaṅgaḥ? ucyate ā asamakarṇasya

parilekhau 1 & 2

samacaturaśrakṣetraviśeṣasya asya (parilekhaḥ 1) | dvisamatryaśrakṣetrasya samunnatavadavasthitasya asya (parilekhaḥ 2) |

vargasamjñāprasaṅge kaḥ doṣaḥ? ucyate ā "phalam ca sadṛśadvayasya saṃvargaḥ" iti sadṛśadvayasya saṃvargaḥ phalam prāpnoti, na ca iṣyate evam | kva tarhi? karṇagrahaṇam kartavyam; vargaḥ samakarṇasamacaturaśrakṣetraviśeṣaḥ iti | athavā tulyasaṅkhyābhyām karṇābhyām upalakṣitasya eva samacaturaśrakṣetraviśeṣasya

vargasamjñā jijñāsyate | kutaḥ? na aniṣṭārthatvāt śāstrapravṛtteḥ | athavā na eva loke
evam ākāraśiṣṭasya samacaturaśrakṣetrasya samacaturaśrasamjñā
susiddhā | āyatacaturaśrakṣetrādiṣu vargakarmaṇaḥ astivāt teṣāṃ
asamacaturaśrāṇām api vargasamjñāprasaṅgaḥ | na eṣaḥ doṣaḥ | teṣu api yaḥ vargaḥ
sa samacaturaśrakṣetrāphalam | tat yathā ā samacaturaśrakṣetram ālikhya aṣṭadhā
vibhajya trikacatuṣkavistārāyāmāni catvāri āyatacaturaśrakṣetrāṇi pañcakarṇāni
parikalpayet | tatra evam parikalpitacaturaśrāyatacaturaśrakṣetrakarṇabāhukam
samacaturaśram kṣetram madhye avatiṣṭhate | yaḥ tatra
āyatacaturaśrakṣetrakarṇāyatavargaḥ, sa ca antaḥsamacaturaśrakṣetre phalam |
tribhujе api etat eva darśanam, ardhāyatacaturaśratvāt tribhujasya |
durvidagdhapratyāyanāya ca kṣetram ālikhyate ā

parilekhaḥ 3

asmād yaḥ yaḥ vargaḥ samacaturaśrakṣetraviśeṣaḥ | evam phalam ca sadṛśadvayasya
samvargaḥ | samvargaḥ iti asya samacaturaśrasya kṣetrāphalam nirucyate | sadṛśasya
dvayam sadṛśadvayam | athavā sadṛśadvayam ca tadvayam ca samasadrṛśadvayam |
sadṛśadvayasya samvargaḥ | samvargaḥ ghātaḥ guṇanā hatiruddhartanā iti paryāyāḥ |
sadṛśadvayasamvargaḥ phalam tasya samacaturaśrasya | sadṛśadvayasamvargaḥ iti
atra iṣṭabāhuvacanam kartavyam | anyathā hi
yayoḥ kayościt sadṛśayoḥ samvargaḥ phalam prāpnoti | na etat asti | nahi phalārthī
anyakṣetram uddīśya anyayoḥ abhyāsam karoti | na hi odanārthī pāṃsūn ādatte |

uddeśakaḥ ā

ekādinavāntānām vargāḥ ye tān pṛthak pṛthak brūhi |
śatapādasya ca vargam śatasya tena eva yuktasya || 1 ||

nyāsaḥ ā 1, 2, 3, 4, 5, 6, 7, 8, 9; śatapādaḥ 25, śatam anena yuktaṃ 125 |

yathāsaṅkhyena ekādinavāntānām phalam ca "sadrśadvayasya saṃvargaḥ" iti labdhāḥ
vargāḥ, nyāsaḥ ā 1, 4, 9, 16, 25, 36, 49, 64, 81 |

evam eṣām lakṣaṇāni sūtrāṇi ā

antypadasya ca vargam kṛtvā dviguṇam tat eva ca antypadam |

śeṣapadaīḥ āhanyāt utsārya utsārya vargavidhau ||

iti, taiḥ ekādinavāntānām rūpāṇām vargasaṅkhyā vaktavyā | kutaḥ? ajñātāyām

vargasaṅkhyāyām yataḥ antypadasya vargasaṅkhyā na śakyate nyastum | asmākam

punaḥ sarvam lakṣaṇena eva saṃgrhītam |

śatapādasya vargaḥ 625; śatasya tena eva yuktaṃ 15625 |

bhinnavargaḥ api evam eva | kintu sadrśīkṛtayoḥ chedāṃśarāśyoḥ pṛthak pṛthak

vargam kṛtvā chedarāśivargeṇa aṃśarāśivargasya bhāgalabdham bhinnavargaḥ |

uddeśakaḥ ā

ṣaṇṇām sacaturthānām rūpasya ca pañcabhāgasahitasya |

rūpadvitayasya ca me brūhi kṛtim navamahīnasya || 2 ||

nyāsaḥ ā 6 1 2

1 1 1

4 5 9

karaṇam ā "chedaguṇam sāmśam" iti

25

4 |

etayoḥ chedāṃśayoḥ rāsyoḥ pṛthak pṛthak vargarāśī 16, 625. chedarāśivargeṇa
aṃśarāśivargam hṛtvā labdham

39

1

16 |

evam śeṣayoḥ api yathāsaṅkhyena

1 3

11 46

25 81 || 2 ||

[ghanaparikarma]

ghanaparikarmapradarśanāya āryāparārdham āha ā

sadrśatrayasaṃvargaḥ ghanaḥ tathā dvādaśāśritaḥ syāt || 3 ||

[sadrśatrayasya saṃvargaḥ] sadrśatrayasaṃvargaḥ | sadrśatrayasaṃvargaḥ ghanaḥ
bhavati | ghanaḥ vṛndam sadrśatrayābhyāsaḥ iti paryāyāḥ | sa ca dvādaśāśritaḥ |
dvādaśa āśrayaḥ yasya sa ayam dvādaśāśritaḥ, syāt bhavet | "tathā"śabdena
samacaturaśratām ghanasya pratipādayati | na etat asti | antareṇa api "tathā"śabdam
asya ghanasya samacaturaśratā śakyate eva pratipattum | kutaḥ ?
sadrśatrayasaṃvargaḥ iti anena samacaturaśrakṣetraphalasya tatḥkṣetravāhusadrśam
eva ucchrāyam ācaṣṭe, yasmāt kṣetraphalam ucchrāyagūṇitam ghanaphalam | athavā
"vargaḥ samacaturaśrah" iti atra adhikṛtam samacaturaśragrahaṇam anuvartate,

aśrayaḥ yasya mṛdā anyena vā pradarśayitavyāḥ |

uddeśakaḥ ā

ekādinavāntānām rūpāṇām me ghanam pṛthak brūhi |

aṣṭāṣṭākavargaghanam śatapādakṛteḥ kṛteḥ ca api || 3 ||

nyāsaḥ ā 1, 2, 3, 4, 5, 6, 7, 8, 9; aṣṭāṣṭākavargaḥ 4096; śatapādakṛteḥ kṛtiḥ 390625 |

ekādinavāntānām "sadrśatrayasaṃvargaḥ ghanāḥ" iti yathāsaṅkhyena labdhāḥ ghanāḥ

1, 8, 27, 64, 125, 216, 343, 512, 729 |

atra api yeṣām "antypadasya ghanam syāt" ityādi lakṣaṇasūtram, teṣām ekādinām

ghanasaṅkhyā vaktavyā | kutaḥ ? anirjñātāyām ghanasaṅkhyāyām yataḥ hi

antypadasya ghanasaṅkhyā nyastum na śakyate | aṣṭāṣṭākavargasya [ghanāḥ]

68719476736, śatapādasya kṛteḥ kṛteḥ api 59604644775390625 |

bhinnaghanāḥ api evam eva | uddeśakaḥ ā

ṣaṭpañcadaśāṣṭānām tāvat bhāgaiḥ vihīnagaṇitānām |

ghanasaṅkhyām vada viśadam yadi ghanagaṇite mativiśadā || 4 ||

nyāsaḥ ā 5 4 9 7

5 4 9 7

6 5 10 8

labdhāḥ yathāsaṅkhyena ghanāḥ ā

198 110 970 488

107 74 299 191

216 125 1000 512

[vargamūlam]

vargamūlānayanāya āha ā

bhāgam haret avargāt nityam dviguṇena vargamūlena |

vargāt varge śuddhe labdham sthānāntare mūlam || 4 ||

bhāgaḥ hr̥tiḥ bhajanam apavartanam iti paryāyāḥ | tam bhāgam, haret gr̥hṇīyāt | kasmāt

sthānāt prabhṛti iti āha ā avargāt, na vargaḥ avargaḥ, tasmāt avargāt | atra gaṇite

viṣamam sthānam vargaḥ | tasya eva nañā viṣamatve pratiśiddhe avargaḥ iti samam

sthānam, yataḥ hi viṣamam samam ca sthānam | kena bhāgam haret iti āha ā nityam

dviguṇena vargamūlena | dvau guṇaḥ yasya tat dviguṇam | kim tat ? vargamūlam | tena

dviguṇena vargamūlena | katham

punar tat vargamūlam labhyate iti āha ā vargāt varge śuddhe labdham sthānāntare

mūlam | vargāt viṣamasthānāt, śuddhe varge vargagaṇite iti arthaḥ, yat atra labdham tat

sthānāntare mūlasaṃjñam bhavati | sthānāt anyasthānam sthānāntaram, tasmin

sthānāntare tasya labdhasya mūlasaṃjñā | yatra punaḥ sthānāntaram eva na vidyate,

tatra tasya tatra eva mūlasaṃjñā | kutaḥ ? sthānāntarasya asambhavāt | etat eva

sūtram punar punar āvartaye yāvat parisamāptam gaṇitakarṇa

iti |

uddeśakaḥ ā

ekādīnām mūlam vargāṇām pūrvadr̥ṣṭasaṅkhyānām |
icchāmi sakhe jñātum śarayamarasavargarāśeḥ ca || 1 ||

nyāsaḥ ā 1, 4, 9, 16, 25, 36, 49, 64, 81, 625 |

pr̥thak pr̥thak yathāsaṅkhyena vargamūlāni labdhāni ā 1, 2, 3, 4, 5, 6, 7, 8, 9, 25 |

bhinnamūlānayane uddeśakaḥ ā

ṣaṅṅām sacaturthānām trayodaśānām [sa]caturnavāṁśānām |
vigaṇayya vargamūle vada bhaṭasaṅkhyānusāreṇa || 2 ||

nyāsaḥ ā 6 13

1 4

4 9

karaṇam ā chedoparirāśyoḥ abhyāsam kṛtvā aṁśam prakṣipet | jātam

25 | 121

4 | 9 |

etayoḥ aṁśacchedarāśyoḥ pr̥thak pr̥thak mūle

5 | 11

2 | 3 |

chedarāśimūlena aṁśarāśimūlasya bhāgalabdham bhinnavargamūlam

2

1

2 ,

trayodaśānām sacaturnavāṃśānām ca bhinnavargamūlam

3

2

3 || 4 ||

[ghanamūlam]

ghanamūlānayanāya āha ā

aghanāt bhajet dvitīyāt

triguṇena ghanasya mūlavargeṇa |

vargaḥ tripūrvaguṇitaḥ

śodhyaḥ prathamāt ghanaḥ ca ghanāt || 5 ||

na ghanaḥ aghanaḥ, tasmāt aghanāt | [bhajet] bhāgam haret, bhāgam gr̥hṇīyāt iti arthaḥ | aghanasthānasya anekatvāt āha ā dvitīyāt | atra gaṇite ghanaḥ ekaḥ, dvau aghanau | kutaḥ etat ghanaḥ ekaḥ dvau aghanau iti ucyate ā "vargaḥ tripūrvaguṇitaḥ śodhyaḥ prathamāt aghanāt" iti prathamāghanasiddhiḥ, "aghanāt bhajet dvitīyāt" iti dvitīyāghanasiddhiḥ | ghanaḥ punar ekaḥ eva, dvitīyasya aśravaṇāt | aghanāt dvitīyāt prabhṛti kena bhāgam haret iti āha ā triguṇena ghanasya mūlavargeṇa | trayāḥ guṇāḥ asya triguṇaḥ | kaḥ ? ghanasya mūlavargaḥ | tena triguṇena ghanasya mūlavargeṇa | vargaḥ tripūrvaguṇitaḥ sodhyaḥ prathamāt | vargaḥ tribhiḥ pūrveṇa ca rāśinā guṇitaḥ tripūrvaguṇitaḥ | kasya vargaḥ ? labdhasya iti vākyaśeṣaḥ | śodhyaḥ | śodhayitavyaḥ | prathamāt aghanāt iti sambandhanīyam | ghanaḥ ca ghanāt | ghanaḥ ca śodhayitavyaḥ | kutaḥ ? ghanāt | ghanasthānāt | tataḥ ghanamūlam bhavati iti adhyāhāryam | atra idam eva

ghanarāśim dṛṣṭvā ghanah ekaḥ dvau aghanau iti vigaṇayya yatra ghanah tasmāt
ghanamūlam pūrvam eva kuryāt, ghanah ca ghanāt śodhyaḥ iti anena | tataḥ sarvam
idam āryāsūtram upasthitam bhavati, "aghanāt bhajet dvitīyāt" ityādi |

uddeśakaḥ ā

ekādīnām mūlam ghanarāśīnām pṛthak tu me brūhi |
vasvaśvimunīndūnām ghanamūlam gaṇyatām āśu || 1 ||

nyāsaḥ ā 1, 8, 27, 64, 125, 216, 343, 512, 729, 9728.
labdham ghanamūlam yathāsaṅkhyena 1, 2, 3, 4, 5, 6, 7, 8, 9, 12.

uddeśakaḥ ā

kṛtayamavasurandhrarasābdhirūparandhrāśvināgasāṅkhyasya |
mūlam ghanasya samyak vada bhaṭaśāstrānusāreṇa || 2 ||

nyāsaḥ ā 8291469824 | labdham ghanamūlam 2024 |

evam eva bhinnaghanamūlānayanē api uddeśakaḥ ā

mūlam trayodaśānām pañcaghanāṃśaiḥ trīsūnyarūpākhyaiḥ |
adhikānām bhinnākhyam vigaṇyatām saṅkhyayā samyak || 3 ||

nyāsaḥ ā

13

103

125 |

labdham ghanamūlam

2

2

5 || 5 ||

[tribhujakṣetraphalam]

atha tribhujakṣetraphalānayanārtham āha ā

tribhujasya phalaśārīram samadalakoṭībhujārdhasamvargaḥ |

tisraḥ bhujāḥ yasya kṣetrasya tat idam kṣetram tribhujam | bhujā bāhuḥ pārśvam iti paryāyāḥ | tatra trīṇi kṣetrāṇi sama-dvisama-viṣamāṇi | "tribhujasya" iti tribhujakṣetra-jātimaṅgīkrītya ekavacananirdeśaḥ | tasya tribhujasya | phalaśārīram | phalasya śārīram phalaśārīram, phalapramāṇam iti arthaḥ | samadalakoṭībhujārdhasamvargaḥ | samadalakoṭī, avalambakaḥ | atra kecit ā same dale yasyāḥ sā iyam samadalā, samadalā ca asau koṭī ca samadalakoṭī iti varṇayanti | teṣām sama-dvisamatryaśrakṣetrayoḥ eva phalasiddhiḥ, na viṣamatryaśrakṣetrasya | asmākam punar samadalakoṭī iti anena avalambakavyutpattyā bruvatām trayāṇām api phalānayanam siddham | athavā ye vyutpattim kurvanti teṣām api trayāṇām tryaśrakṣetrāṇām phalānayanam siddham eva | kutaḥ ? "rūḍheṣu kriyā vyutpattikarmārthā na arthakriyā" iti | bhujāyāḥ ardham bhujārdham | atha atra bhujāśabdena bhujā bāhuḥ pārśvam iti sāmānyena trayāṇām pārśvānām pratipattau prasaktāyām viśiṣṭā eva bhujā parigrhyate, bhujāsamjñitā | "sāmānyacodanāḥ ca viśeṣe avatiṣṭhante" iti | atra gaṇite bhujāśabdaḥ auṇādikaḥ pratipattavyaḥ, anyathā hi "bhujānyubjau pānyupatāpayoḥ" [aṣṭādhyāyī, 7.3.61] iti

bhujāśabdasya pāṇāvarthe nipātittvāt kṣetrapārśve na labhyate | tasyāḥ bhujāyāḥ
ardham bhujārdham | samadalakoṭyā bhujārdhasya ca samvargaḥ
samadalakoṭībhujārdhasamvargaḥ, tribhujasya phalaśārīram bhavati |

uddeśakaḥ ā

saptāṣṭānavabhujānām kṣetrāṇām yat phalam samānām tu |
pañcaśravaṇasya sakhe ṣaḍbhūsaṅkhyadvitulyasya || 1 ||

nyāsaḥ ā

parilekhaḥ 4

etāni trīṇi samāni |

dvisamasya api nyāsaḥ ā

parilekhaḥ 5

karaṇam ā "samatryaśrikṣetre samā eva avalambakasthitiḥ" iti bhūmyardham ābādḥā

3

1

2 |

"yaḥ ca eva bhujāvargaḥ koṭīvargaḥ ca karṇavargaḥ saḥ" [gaṇitaí, 17] iti bhujākoṭyoḥ
vargau karṇavargaḥ | tena, bhujāvarge karṇavargāt śuddhe śeṣam samadalakoṭīvargaḥ

36

3

4,

samadalakoṭī karaṇyaḥ

36

3

4

iti | bhujārdham api karaṇyaḥ

12

1

4 |

tena, karaṇyoḥ saṃvargaḥ asti iti labdham kṣetraphalam

"samadalakoṭībhujārdhasaṃvargaḥ" iti karaṇyaḥ

450

3

16 |

śeṣayoḥ api samayoḥ evam eva yathāsaṅkhyena phalam [karaṇyaḥ 768], karaṇyaḥ

1230

3

16 |

dvisamatryaśrikṣetrasya api "samā eva avalambakasthitiḥ" iti ābādhā 3, samadalakoṭī

pūrvakaraṇena eva 4, phalam api tena eva karaṇena 12 |

uddeśakaḥ ā

karṇau dvau daśa nirdiṣṭau dhātṛī [ca] tasya ṣoḍaśa proktā |

dvisamasya tasya vācyam phalasaṅkhyānam prayatnena || 2 ||

nyāsaḥ ā

parilekhaḥ 6

labdham pūrvakaraṇena phalam 48 |

viṣamatribhujakṣetreṣu uddeśakaḥ ā

karṇaḥ trayodaśa syāt pañcadaśānyaḥ mahī dvisaptā eva |
viṣamatribhujasya sakhe phalasaṅkhyā kā bhavet asya || 3 ||

nyāsaḥ ā

parilekhaḥ 7

karaṇam ā bhujayoḥ vargaviśeṣaḥ tayoh vā samāsaviśeṣābhyāsaḥ tribhujakṣetre
ābādhāntarasamāsaviśeṣābhyāsaḥ bhavati | bhūmyā ābādhāntarasamāsapramāṇayā
vibhajya labdham bhūmau eva saṅkramaṇam | "antarayuktam hīnam dalitam" iti
[gaṇitaí, 24] | anena krameṇa ābādhāntarapramāṇe labhyete | tābhyām
ābādhāntarapramāṇābhyām viṣamatribhujasya samadalakoṭyānayanam | tat yathā ā
bhujayoḥ vargarāśī 169, 225 | etayoḥ viśeṣaḥ 56 | bhujayoḥ
ekībhāvaḥ 28, tayoh viśeṣaḥ 2 | tayoh abhyāsaḥ iti [bhujayoḥ vargaviśeṣaḥ]
ābādhāntarasamāsapramāṇayā bhūmyā 14, anayā hr̥te labdham 4, anena bhuvā saha
saṅkramaṇam "antarayuktam hīnam" iti 18, 10 | dalam iti yathākrameṇa ābādhāntare 1,
5 | etābhyām tribhujakṣetrasya avalambakānayanam ā pañcadaśakena karṇena
navapramāṇena ca ābādhāntareṇa labdhā samadalakoṭī 12; trayodaśapramāṇena
karṇena pañcapramāṇena ca ābādhāntareṇa labdhā sā eva samadalakoṭī
12 | phalam "samadalakoṭībhujārdhasaṅvargaḥ" iti bhujā bhūmiḥ, tasyāḥ ardham 7,

samadalakoṭībhujārdhasaṃvargaḥ iti phalam āgatam 84 |

uddeśakaḥ ā

pañcāśat sā ekā bhūḥ triṃśat saptādhikā bhavet karṇaḥ |

viṃśatiḥ anyāḥ proktaḥ viṣamatribhujasya kim phalam vācyam || 4 ||

nyāsaḥ ā

parilekhaḥ 8

labdham pūrvakaraṇena ca ābādhāntare 16, 35, samadalakoṭī 12, phalam 206 |

[śaḍaśrighanaphalam]

ghanaphalānayanārtham asya eva tribhujakṣetrasya āryāpaścārdham āha ā

ūrdhvabhujātatsaṃvargārdham sa ghanaḥ śaḍaśriḥ iti || 6 ||

ūrdhvabhujā kṣetramadhyāḥ ucchrāyaḥ, tat iti kṣetraphalam, ūrdhvabhujāyāḥ tasya ca
saṃvargaḥ ūrdhvabhujātatsaṃvargaḥ, tasya ardhham ūrdhvabhujātatsaṃvargārdham |
sa ghanaḥ ghanaphalam iti yāvat, sa ca śaḍaśriḥ | śaḍaśrayaḥ yasya saḥ śaḍaśriḥ
ghanaḥ | atha nirjñāte ūrdhvabhujāpramāṇe ghanaphalam

ūrdhvabhujātatsaṃvargārdham iti śakyate vaktum, na ca anirjñāte | satyam eva etat |
kintu atra nirjñātam eva ūrdhvabhujāpramāṇam | kutaḥ ? śāstre

tadānayanopāyapradarśanāt | tat yathā ā ūrdhvabhujā hi nāma kṣetramadhyāḥ
ucchrāyaḥ iti pratyakṣam | sa ca tiryagavasthitasya śṛṅgāṭakakṣetrabāhoḥ

karṇavadavasthitasya koṭiḥ, bhujākarṇamūlakṣetrakendrāntarālam | tadānayane
trairāśīkam ā yadi tribhujakṣetrāvalambakena tribhujakṣetrabāhuḥ labhyate tadā tasya
eva tribhujakṣetrabāhudalasaṅkhyakasya avalambakasya kiyān bāhuḥ iti | etat
karṇabhujākoṭitraitrāśīkavidhānam pradeśāntaraprasiddham eva iti na
atra abhihitam | sa ca pradeśaḥ "yaḥ ca eva bhujāvargaḥ koṭivargaḥ ca karṇavargaḥ
saḥ" [gaṇitaí, 17] iti, "trairāśīkaphalarāśim tam atha icchārāśinā hatam" [gaṇitaí, 26] iti
ca |

uddeśakaḥ ā

śrṅgāṭakaghanagaṇitam dvādaśagaṇitāśritasya yat ca asya |
ūrdhvabhujāparimāṇam sphuṭataram ācākṣva me śīghram || 1 ||

nyāsaḥ ā

parilekhaḥ 9

karaṇam ā yadi aṣṭottaraśatakaraṇikena [avalambakena]
catuścatvāriṃśaduttaraśatakaraṇikaḥ karṇaḥ labhyate, tadā ṣaṭtriṃśatkaraṇikena
avalambakena kiyān karṇaḥ iti | trairāśīkopapattipradarśanārtham kṣetranayāsaḥ ā

parilekhaḥ 10

trairāśīkanyāsaḥ ca 108, 144, 36 | [etāḥ karaṇyaḥ]

labdhaḥ antaḥkarṇaḥ [karaṇyaḥ] 48 | ayam eva karṇaḥ ūrdhvam
avasthitatribhujā[kṣetrasya bhujā] | karṇakṛteḥ bhujāvargaviśeṣaḥ ūrdhvabhujāvargaḥ |

sa ca 16 | tatra ūrdhvabhujā sūtrakaiḥ śalākādibhiḥ vā pradarsāyitavyā | kṣetraphalam
[karaṇyaḥ] 3888. etāsām kṣetraphalakarāṇīnām ūrdhvabhujākaraṇīnām ca
saṃvargārdham ghaṇaḥ bhavati | ardham iti atra karaṇītvāt dvayoḥ karaṇībhiḥ caturbhiḥ
bhāgaḥ hriyate | labdham ghaṇaphalam karaṇyaḥ 93312 |

uddeśakaḥ ā

aṣṭādaśa karṇānām saṅkhyā śṛṅgāṭakasya nirदिष्टā |
ūrdhvabhujāgaṇitāgram jijñāsuḥ aham sakhe tasya || 2 ||

nyāsaḥ ā

parilekhaḥ 11

ūrdhvabhujā pūrvakarāṇena eva karaṇyaḥ 216 | phalam api pūrvavat eva labdham
karaṇyaḥ 1062882 || 6 ||

[vṛttakṣetraphalam]

atha vṛttakṣetraphalānayanārtham āha ā

samapariṇāhasya ardham viṣkambhārdhahatam eva vṛttaphalam |

pariṇāhaḥ paridhiḥ | samaḥ ca asau pariṇāhaḥ ca samapariṇāhaḥ, tasya ardham | anye
punar anyathā vigraham kurvanti ā samaḥ pariṇāhaḥ yasya kṣetrasya tat
samapariṇāham, tasya ardham iti | teṣām kṣetraphalārdhasya grahaṇam prāpnoti,
anya-pādārthena samapariṇāhaśabdena kṣetrābhidhānāt | viṣkambhaḥ vyāsaḥ, tasya

ardham viṣkambhārdham, tena hatam viṣkambhārdhahatam, viṣkambhārdhaguṇitam iti
yāvat | evakāraṇam āryāpūraṇārtham pratipattavyam
| athavā evakāraṇena upāyanīyamaḥ kriyate | samapariṇāhasya ardham
viṣkambhārdhahatam eva vṛttaphalam, na anyat upāyāntaram iti | na, etat asti,
upāyāntaraśravaṇāt anyatra "vyāsārdhakṛtiḥ trisaṅguṇā gaṇitam" iti | na etat
upāyāntaram sūkṣmam, kintu vyāvahārikam iti | tasmāt ekam eva upāyāntaram,
sūkṣmagaṇitānayanasya na anyat iti |

uddeśakaḥ ā

aṣṭadvādaśaṣaṭkāḥ viṣkambhāḥ tattvataḥ mayā dr̥ṣṭāḥ |
teṣāṃ samavṛttānām paridhiphalam me pṛthak brūhi || 1 ||

nyāsaḥ ā 8, 12, 6

parilekhaḥ 12

eteṣāṃ trairāśikena vakṣyamāṇaviṣkambhaparidhipramāṇaphalābhyām [gaṇitaí, 10]

labdhāḥ paridhayaḥ yathākrameṇa ā

25 37 18

83 437 531

625 625 625

phalānayane karaṇam ā samapariṇāhasya ardham iti viṣkambhārdham jātam 4 | anena

eva tatsamapariṇāhasya ardham

12

354

625

guṇitam vṛttaphalam jātam

50

166

625

anena eva karaṇena śeṣayoḥ paridhyoḥ yathāsaṅkhyena phale ā

113 28

61 343

625 1250

[golaghanaphalam]

ghanaphalapradarśanārtham āha ā

tat nijamūlena hatam ghanagolaphalam niravaśeṣam || 7 ||

tat iti anena pūrvārdhagaṇitanīṣpannam vṛttakṣetrasya tatphalam pariḡrhyate |
nijamūlam ātmanaḥ mūlam | yat kṣetraphalam tat svakīyena mūlena guṇitam iti yāvat |
athavā tat kṣetraphalam, nijam avitatham āmnāyāvairuddham iti arthaḥ, mūlena hatam,
anyasya aśrutatvāt svena mūlena tatḥkṣetraphalam guṇitam | nijamūlena hatam
nijamūlahatam iti vighrahaḥ | tat punar kṣetraphalam mūlakriyamāṇam karaṇītvam
pratipadyate, yasmāt karaṇīnām mūla[m apekṣitam]
| tataḥ punar api karaṇīnām akaraṇībhiḥ samvargaḥ na asti iti kṣetraphalam karaṇyate |
evam ayam arthaḥ arthāt avasīyate kṣetraphalavargaḥ kṣetraphalena guṇitaḥ iti |
ghanaḥ ca asau golaḥ ca ghanagolaḥ, golaḥ vṛttam, ghanagolasya phalam
ghanagolaphalam | niravaśeṣam | na kiñcit anena karmaṇā śiṣyate | yena anyena
karmaṇā ghanagolaphalam ānayanti na tena ghanagolaphalam niravaśeṣam bhavati,
vyāvahārikatvāt tasya karmaṇaḥ ā
vyāsārdhaghanam bhitvā navaguṇitam ayoguḍasya ghanagaṇitam |

iti |

uddeśakaḥ ā

dvau pañca tathā pañktiḥ vyāsāḥ jñeyāḥ krameṇa vṛttānām |
ghanagolaphalāni eṣām jijñāsuḥ aham samāsenā || 1 ||

nyāsaḥ ā

parilekhaḥ 13

eṣām paridhayaḥ trairāśikena eva labdhāḥ yathāsaṅkhyena ā

6 15 31

177 177 52

625 250 125

karaṇam ā pūrvābhihitagaṇitakarmanā [dvi]viṣkambhakṣetrasya yat phalam āyātam

3

177

1250 tasya mūlam etat eva karaṇīgatam aśuddhakṛtīvāt pratipattavyam | tat ca

savarṇitam jātam

3927

1250. etat kṣetrāphalavargeṇa guṇitam jātam ghanaphalam karaṇyaḥ 31, karaṇībhāgāḥ

ca

12683983

1953125000 |

evam śeṣayoḥ api yathāsaṅkhyena ghanaphalakarṇyaḥ karaṇībhāgāḥ ca ā

7569484476

7558983 58983

8000000 125000

[samalambacaturbhujaphalam]

dvi[sama-viṣama]caturaśrādīnām antaḥkarṇayoḥ ca atra

sampātāpramāṇaphalaparijñānāya āryām āha ā

āyāmaguṇe pārsve tadyogahrte svapātelekhe te |

vistarayogārdhaguṇe jñeyam kṣetraphalam āyāme || 8 ||

āyāmaḥ vistāraḥ dairghyam iti paryāyāḥ | āyāmaḥ guṇaḥ yayoh te āyāmaguṇe | ke te ?

pārsve | bhūḥ ekam pārsvam mukham itaram | āyāmaguṇe bhūvadane iti arthaḥ | tayoh

yogaḥ tadyogaḥ | kayoh ? pārsvayoh | tadyogahrte | ke ? āyāmaghne pārsve | svasya

pātaḥ svapātaḥ, svapātayoh lekhe svapātalekhe | dve api pṛthak pṛthak labdhe iti

vākyaśeṣaḥ | svapātalekhā nāma antaḥkarṇayoḥ sampātasya bhūmukhamadhyasya ca

antarālam | vistāraḥ kṣetrasya pṛthutvam

| yadi evam vistāraḥ iti prāpnoti "prathane vākyaśabde" [aṣṭādhyāyī, 3.3.33] iti ghaṇi kṛte

| ne eṣaḥ doṣaḥ | ayam avastre staraśabdaḥ, tena viśabdena samāsāntaḥ asau

"vividhastaraḥ vistāraḥ" iti | vistarayoh yogaḥ vistarayogaḥ, bhūvadanayogaḥ iti arthaḥ |

vistarayogasya ardham vistarayogārdham, vistarayogārdham guṇaḥ yasya sa

vistarayogārdhaguṇaḥ | kaḥ ? āyāmaḥ | tasmin vistarayogārdhaguṇe āyāme

kṣetraphalam jñeyam | vistarayogārdhaguṇaḥ āyāmaḥ kṣetraphalam

iti yāvat | samyak anādiṣṭena ālikhite kṣetre svapātalekhāpramāṇam trairāśikagaṇitena

pratipādayitavyam | tathā trairāśikena eva ubhayapārsve

karṇāvalambakasampātānayanam | pūrvasūtreṇa atra
dvisamaviṣamatryaśrakṣetraphalam darśayitavyam | vakṣyamāṇasūtreṇa
antarāyatacaturaśrakṣetraphalānayanam anena vā anyeṣu api kṣetreṣu yāni teṣām
antarvartīni kṣetrāṇi teṣām karṇāvalambakādisādhanam tat upadiṣṭalakṣaṇena eva | na
ca teṣām anyatra avasthānamātrāt
eva anyat karaṇam syāt |

uddeśakaḥ ā

bhūmiḥ caturdaśa syāt vadanam catvāri ca eva rūpāṇi |
karṇau trayodaśāgrau sampātāgram phalam ca vada || 1 ||

nyāsaḥ ā

parilekhaḥ 14

karaṇam ā mukhabhūmiviśeṣārdham bhujā [5] | tayā bhujayā pṛthaguktagaṇitena eva
avalambakasiddhiḥ, sa ca 12 | ayam eva avalambakaḥ āyāmaḥ | pṛthak pṛthak pārśve
anena guṇite jāte 48, 168. pārśvayoḥ yogah 18. anena bhāgalabdhe svapātalekha

29

21

33 vistarayogārdhaḥ 1. anena āyāmaḥ guṇitaḥ kṣetraphalam 108 |

uddeśakaḥ ā

viṃśatiḥ ekābhyadhikā pañktiḥ nava ca eva kīrtitā saṅkhyā |

dhātrīkarṇamukhānām gaṇitam sampātalekham ācakṣva || 2 ||

nyāsaḥ ā

parilekhaḥ 15

svapātalekhe pūrvakaraṇena

2 5

2 3

5 5 |

kṣetraphalam 120 |

uddeśakaḥ ā

triṃśat tryadhikā bhūmiḥ saptadaśa anyāni kīrtitāni atra |

gaṇitam tatra kiyat syāt svapātalekhe ca ke syātām || 3 ||

nyāsaḥ ā

parilekhaḥ 16

asya trisamacaturaśrasya kṣetrasya labdhe svapātalekhe

5 9

1 9

10 10 |

kṣetraphalam 375 |

viṣamacaturaśrakṣetreṣu phalamātram eva uddiśyate, na sampātalekhe, durjñātavāt
avalambakasya | anyat api ca ā yat atra viṣamacaturaśram kṣetram na tat
anyagaṇitakṣetraih samānam | tat ca ā

pañcakṛtimukhena yutam ṣaṣṭiḥ vasudhāpramāṇam ākhyātam |
karṇau trayodaśamitau catustribhiḥ tāḍitau kramaśaḥ || 4 ||

asya yau avalambakau tau na sadṛśau | atra ca yat upadiśyate tasya yau avalambakau
tau tulyasaṅkhyau | tena gaṇitaśāstrāntaropadiṣṭaviṣamacaturaśrakṣetrasya asya ca
asādrśyam sati api ca viṣamatve |

atha yat gaṇitaśāstrāntaropadiṣṭaviṣamacaturaśrakṣetram yat ca iha upadiśyate tayoh
dvayoh api phalanirdeśaḥ api anena upadeśena śakyate [kartum] |
durjñātāvalambakasya kim ? ucyate ā viṣamakṣetreṣu phalamātram eva uddiśya[te], na
sampātalekhe ca iti | atha cet parijñātaḥ avalambakaḥ bhavati tadā phalam ca
sampātalekhe ca śakyate vijñātum | katham ? pūrvopadiṣṭagaṇitakarmanā eva |

uddeśakaḥ ā

āyāmaḥ dvādaśa proktaḥ bhūmiḥ ekonaviṃśatiḥ |
mukham pañca samākhyātam karṇau tasya atha kīrtitau ||
daśa pañca-tribhiḥ ca eva samyuktāni pṛthak pṛthak |
phalam sampātalekhe ca jñātum icchāmi tattvataḥ || 5 ||

nyāsaḥ ā

parilekhaḥ 17

labdhe sampātalekhe

2 9

1 1

2 2 |

kṣetraphalam 144 | evam anyeṣu api evaṃvidheṣu kṣetreṣu phalānayanam

sampātalekhānayanam ca || 8 ||

[kṣetraphalam pratyayakaraṇam ca]

sarvakṣetrāṇām phalapratyayakaraṇārtham āha ā

sarveṣām kṣetrāṇām prasādhya pārśve phalam tadabhyāsaḥ |

sarveṣām kṣetrāṇām phalam nirdeṣṭavyam | katham ? prasādhya pārśve | "pra"-śabdaḥ

prakṛṣṭavācī, prakarṣeṇa pārśve sādhayitvā iti | kaḥ ca tayoh prasādhyamānayoḥ

pārśvayoḥ prakarṣaḥ ? ucyate ā pārśvatā | kaḥ punar arthaḥ pārśvatāśabdasya iti |

ucyate ā yadi sarvakṣetram prasādhyamānam, [tadā "pārśvatā"-śabdāsyā arthaḥ]

pārśve eva bhavati, āyatacaturaśram eva iti yāvat | phalam tadabhyāsaḥ | teṣām

sarvakṣetrāṇām pratyākalitapārśvāyatacaturaśrāṇām

phalam tayoh pārśvayoḥ abhyāsaḥ, vistārāyāmābhyāsaḥ iti yāvat | "abhyāsaḥ guṇanā

saṃvargaḥ" iti paryāyāḥ |

atha sarvaśabdasya niravaśeṣavācivāt niravaśeṣāṇi eva kṣetrāṇi ākṣipyante, tasmāt

sarvakṣetrāṇām phalasya anena eva sūtreṇa siddhatvāt pūrvābhīhitasūtrābhīdhānam

anarthakam | na anarthakam | pratyayakaraṇam phalam ca anena ucyate | abhīhitānām

kṣetrāṇām phalasya pratyayakaraṇam, yasmāt gaṇitavidaḥ maskari-pūraṇa-

pūtanādayaḥ sarveṣāṃ kṣetrāṇāṃ phalam āyatacaturaśrakṣetre pratyāyanti | uktam
ca ā

karaṇaiḥ uktaiḥ nityam phalam anugamya āyate tu vijñeyam |
pratyayakaraṇam kṣetre vyaktam phalam āyate yasmāt ||

anabhihitānāṃ kṣetrāṇāṃ phalān ayanam abhīṣṭakṣetrāyatacaturaśrīkaraṇena eva |

atha katham ekena eva yatnena phalānayanam pratyayakaraṇam ca prasādhyate ?
atha idam pratyayakaraṇārtham prakṛtam, sa katham phalānayanāya bhavati ? atha
phalānayanārtham, katham pratyayakaraṇāya ? nea eṣaḥ doṣaḥ | anyārtham prakṛtam
anyārtham sādhakam dr̥ṣṭam | tat yathā ā "śālyartham kulyāḥ praṇīyante | tābhyaḥ ca
pānīyam pīyate, upaspr̥śyate ca |" [aṣṭādhyāyī, 1.1.22, pātañjalabhāṣyam] evam iha
api | tat yathā ā

āyatacaturaśrakṣetraphalānayanana uddeśakaḥ ā

aṣṭau pañca ca paṅktivistāraḥ dairghyam api amīṣāṃ yat |
aṣṭiḥ dvādaśa manavaḥ gaṇitam kiyat āyatānām tu || 1 ||

nyāsaḥ ā

parilekhaḥ 18

aṣṭau ekam pārśvam ; ṣoḍaśa anyat | tayoh pārśvayoh abhyāsaḥ, phalam āgatam 128 |
śeṣayoh api evam eva 60, 140 |

pūrvasūtraniṣpannakṣetraphalānām pratyayakaraṇam pradarsyate | tat yathā ā

tricatorbhujavṛttānām dr̥ṣṭāni phalāni yāni gaṇitena |

teṣām pratyayakaraṇam kathaya katham bhavati sarveṣām || 2 ||

asya samatryaśrikṣetrasya pūrvadr̥ṣṭasya eva katham phalapratyayakaraṇam [iti]

nyāsaḥ ā

parilekhaḥ 19

etat eva nyastam āyatacaturaśrakṣetram jātam ā

parilekhaḥ 20

[tribhujasya avalambakaḥ āyāmaḥ] karaṇyaḥ

36

3

4

[bhūmyardham vistāraḥ karaṇyaḥ

12

1

4]

phalam pārśvayoḥ abhyāsaḥ iti karaṇyaḥ

450

3

16

pūrvalikhitā [eva] |

evam eva [dvi]sameṣu, viṣameṣu ca | viṣamākhyasya nyāsaḥ ā

parilekhaḥ 21

asya api avalambakaḥ āyāmaḥ 12, bhūmyardham vistāraḥ 7 |

parilekhaḥ 22

asya api pūrvavat eva vistārāyām ayoḥ saṃvargaḥ phalam 84 |

athavā āyatacaturaśrakṣetrayoḥ ardhakṣetraphalasaṃyogaḥ asya phalam | tayoh
dvayoh pañcavistārasya dvādaśāyām asya ekasya, dviṭīyasya api navavistārasya
dvādaśāyām asya ardhakṣetraphalasaṃyogaḥ asya phalam | tayoh dvayoh
pañcavistārasya dvādaśāyām asya ekasya dviṭīyasya api navavistārasya dvādaśāyām
asya nyāsaḥ ā

parilekhaḥ 23

dvādaśapañcakasya phalam vistārāyāmābhyāsakrameṇa 60, asya ardham eva asmin
viṣamatryaśrikṣetre iti 30, nava[vistāra]dvādaśāyām asya phalam 108, asya api ardham
eva asmin anupraviṣṭam iti 54 ; etayoh ardhaphalayoḥ yogaḥ sā eva caturaśītiḥ 84 |

evam dvisamatrixamaviṣamacaturaśreṣu api phalam pratyāyanīyam | vṛttakṣetre
viṣkambhārdham vistāraḥ, paridhyardham āyāmaḥ, tat eva āyatacaturaśrakṣetram |
anayā diśā prakīrṇakṣetre phalam svadhiyā abhyūhyam | tat yathā ā

mukham ekādaśa dṛṣṭam pratimukham api ucyate tathā ca nava |
āyāmaḥ viṃśatikaḥ phalam asya kiyat bhavet gaṇaka || 3 ||

nyāsaḥ ā

parilekhaḥ 24

karaṇam ā "prasādhya pārśve phalam tadabhyāsaḥ" iti viṣamayoh pārsvayoh yogaḥ 20,
asya ardham 10. [āyāmaḥ 20]. ete daśakaviṃśatike pārśve | etayoh abhyāsaḥ
kṣetraphalam [200] |

uddeśakaḥ ā

aṣṭāṣṭau paṇavamukhe vyāsaḥ dvau ṣoḍaśa ucyate dairghyam |
kiyat asya phalam vācyam paṇavākṛtisaṃsthitasya asya || 4 ||

nyāsaḥ ā

parilekhaḥ 25

karaṇam ā mukhayoh samāsaḥ 16, ardham 8. etat vistāreṇa 2 yuktam 10. asya ardham
5. evam "prasādhya pārśve phalam tadabhyāsaḥ" iti āgatam phalam 80 |

uddeśakaḥ ā

vistāraḥ pañca uktaḥ navodaram pṛṣṭham asya pañcadaśa |
karidantakṣetraphalam kiyatpramāṇam vinirdeśyam || 5 ||

nyāsaḥ ā

parilekhaḥ 26

karaṇam ā pṛṣṭhodarasamāsaḥ 24. ardham 12. etat vistārārdhaguṇam phalam triṃśat
30 |

evam sarvakṣetreṣu pārśvadvayaparikalpanayā phalam nirdeṣṭavyam |

[vyāsārdhatulyajyā]

samavṛttaviṣkambhārdhatulyajyāpradarśanārtham āha ā

paridheḥ ṣaḍbhāgajyā viṣkambhārdhena sā tulyā || 9 ||

paridhiḥ pariṇāhaḥ vṛttam iti paryāyāḥ | tasya paridheḥ ṣaḍbhāgasya yā jyā sā
viṣkambhārdhena tulyā | paridheḥ ṣaḍbhāgaḥ rāśidvayam | rāśidvayakṣetrāvagāhinī yā
jyā sā paridheḥ ṣaḍbhāgasya jyā | tasyāḥ ardham rāśeḥ ekasya ardhajyā | etat ca
sarvam chedyake pratipādanīyam iti | asmin ca
viracitamukhadeśasitavartyaṅkurakarkaṭena ālikhite chedyake yat ṣaḍbhāgajyāyāḥ
ardham tat rāśeḥ ardhajyā | tayā ardhajyayā nirjñātāyāḥ ardhajyakotpattim vakṣyati
| etām eva ṣaḍbhāgajyām pratipādayiṣatā vṛtakṣetre ṣaṭ samatryaśrikṣetrāṇi
prasaṅgena pradarśitāni | atra viṣkambhārdhabāhūni | ṣaṭ vā dhanuḥkṣetrāṇi
viṣkambhārdhajyākāni | evam ca ṣaḍaśrikṣetram | prayojanam ca asya
ṣaḍbhāgajyāpradarśanasya "samavṛttaparidhipādam chindyāt" [gaṇitaí, 11] iti asyām
kārikāyām vakṣyati || 9 ||

[vṛtṭe vyāsaparidhisambandhaḥ]

trairāśikena samavṛttānayanārtham āha ā

caturadhikam śatam aṣṭaguṇam dvāṣaṣṭiḥ tathā sahasrāṇām |

ayutadvayaviṣkambhasya āsannaḥ vṛttapariṇāhaḥ || 10 ||

caturbhiḥ adhikam caturadhikam | kim tat ? śatam | aṣṭābhiḥ guṇitam aṣṭaguṇam | etat

uktam bhavati ā aṣṭau śatāni dvātrimśaduttarāṇi iti | sahasrāṇi ca dvāṣaṣṭiḥ | etat

ubhayam ekatra 62832 | ayutadvayam ca viṣkambhaḥ ca ayutadvayaviṣkambhaḥ |

athavā ayutadvayasaṅkhyāḥ viṣkambhaḥ ayutadvayapramāṇaḥ vā

ayutadvayaviṣkambhaḥ | tasya ayutadvayaviṣkambhasya | sa ca 20000 | āsannaḥ

vikāṭaḥ | kasya āsannaḥ ? sūkṣmasya pariṇāhasya | katham vijñāyate

sūkṣmasya āsannaḥ iti, na punar vyāvahārikasya āsannaḥ ; yāvatā śrutaparikalpanā

sūkṣmavyāvahārikayāyoḥ tulyā | na eṣaḥ doṣaḥ, sandehamātram idam |

sarvasandehēṣu vedam avatiṣṭhate "vyākhyānataḥ viśeṣapratipattiḥ [nahi sandehāt

alakṣaṇam]" [aṣṭādhyāyī, śivasūtram 6, pātañjalabhāṣyam] iti | tasmāt sūkṣmasya

āsannaḥ iti vyākhyāsyāmaḥ | athavā āsannaśabdena tatsamīpavartinā abhidhīyate |

tena ca tat eva āsannaśabdena ucyate | tarhi kiñcit bhinnam | yadi

vyāvahārikāsannaḥ vyāvahārikāt api pāpīyān paridhiḥ, na kaścit pāpataram prayāsam

karoti, tena sūkṣmāsannaḥ iti nyāyasiddham | atha āsannaparidhiḥ kasmāt ucyate, na

punar sphuṭaparidhiḥ eva ucyate ? evam manyante ā sa upāyaḥ eva na asti yena

sūkṣmaparidhiḥ ānīyate | nanu ca ayam asti ā

vikkhaṃbhavaggadasaguṇakaraṇī vaṭṭassa parirao hodi |

[viṣkambhavargadaśaguṇakaraṇī vṛttasya pariṇāhaḥ bhavati |]

iti | atra api kevalaḥ eva āgamaḥ na eva upapattiḥ | rūpaviṣkambhasya daśakaraṇyaḥ
paridhiḥ iti | atha manyate pratyakṣeṇa eva pramīyamāṇaḥ rūpaviṣkambhakṣetrasya
paridhiḥ daśakaraṇyaḥ iti | na etat, aparibhāṣitapramāṇatvāt karaṇīnām |
ekatrivistārāyām āyatacaturaśrakṣetrakarṇena daśakaraṇikena eva
tadviṣkambhaparidhiḥ veṣṭyamāṇaḥ sa tatpramāṇaḥ bhavati iti cet tat api sādhyam eva
|

anyat ca ā vṛttakṣetre catvāri dhanuḥkṣetrāṇi, ekam āyatacaturaśrakṣetram | teṣām
phalasaṁsena vṛttakṣetraphalena bhavitavyam | tāni phalāni saṁyojyamānāni na
vṛttakṣetraphalatulyāni bhavanti |

tatpratipādanārtham uddeśakaḥ ā

daśaviṣkambhakṣetre pūrvāparabhāge ekarūpam avagāhya |
jīvā ṣaḍ dakṣiṇottarayoh api dve rūpe avagāhya aṣṭau ||

tāsām jīvānām ānayanopāyasūtram gāthā ā

ogāhūṇam vikkhambham egāheṇa saṁguṇam kuryāt |
cauguṇiassa tu mūlam jīvā savvakhattāṇam ||

[avagāhonam viṣkambham avagāheṇa saṁguṇam kuryāt |
caturguṇitasya tu mūlam sā jīvā sarvakṣetrāṇām ||]

dhanuḥkṣetranyāsaḥ ca ā

parilekhaḥ 27

dhanuḥkṣetraphalānāyane sūtram gāthā ā

isupāyaguṇā jīvā dasikaraṇi bhavet vigaṇiya padam |
dhanupaṭṭa ammikhatte edam karaṇam tu ṇāavvam ||
[iṣupādaguṇā jīvā daśakaraṇībhiḥ bhavet vigaṇya phalam |
dhanuḥpaṭṭe asmin kṣetre etat karaṇam tu jñātavyam ||]

anayā gāthayā pūrvāparadhanuḥkṣetraphale kaí

90

4,

kaí

90

4.

ete kṣetraphale karaṇiprakṣepavidhānena prakṣeptavye | karaṇiprakṣetrapasūtram
gāthā ā

auvaṭṭi a dassakeṇa i mūlasamāsassamotthavat |
ovaṭṭaṇāyaguṇiyam karaṇisamāsam tu ṇāavvam ||
[apavartya ca daśakena hi mūlasamāsaḥ samottham yat |
apavartanāṅkaguṇitam karaṇisamāsam tu jñātavyam ||]

tathākṛtvā labdham kaí 90 | dakṣiṇottaradhanuṣoḥ api tathā eva phale kaí 160, kaí 160 |

[samāsaḥ ca kaí] 640 | samastayoḥ punar samāsaḥ kaí 1210 |

madhyasthāyatacaturaśrakṣetraphalam karaṇyaḥ 2304 |

dhanuḥkṣetraphalāsamāsarāśeḥ asya ca karaṇisamāsakriyayā samasyamāne rāśyoḥ

asamkṣepatā |

pr̥ṣṭhānayanam api ca daśakaraṇīparidhiprakriyāparikalpanayā sadā na [bhavati | yataḥ
] pr̥ṣṭhānayanane sūtram āryārdham ā

jyāpādaśarārdhayutiḥ svaguṇā [daśasaṅguṇā karaṇyastāḥ]

[atra uddeśakaḥ ā dvipañcāsat viṣkambhe dviḥ avagāhya |]

"ogāhūṇam vikkhambham" iti anena jyā labdhā viṃśatiḥ [20] | [anayā jyayā]

pr̥ṣṭhānayanam ā jyāpādaḥ

[20

4 =] 5,

śarārdha [1] yutiḥ 6, svaguṇā 36, daśasaṅguṇāḥ 360, etā karaṇyaḥ pr̥ṣṭham |

sakalajyāvargaḥ catvāri śatāni, pr̥ṣṭham karaṇīnām ṣaṣṭiśatatrāyam iti, katham etat

saṃghaṭate | jyāyasā jyātaḥ pr̥ṣṭhena bhavitavyam | tat etat vicāryamāṇam

atyantasūkṣmavādinām jyātaḥ pr̥ṣṭham alpīyamāṇam āpatitam ataḥ asyai

avicāritamanoharāyai namaḥ astu daśakaraṇyai |

atha aparāḥ api uddeśakaḥ ā

ṣaḍviṃśataviṣkambhakṣetre ekam avagāhya |

pūrvakaraṇena eva jyā daśa 10 | pūrvavat eva pr̥ṣṭham asyāḥ navatiḥ karaṇīnām 90 |

jyāvargaḥ śatam 100 |

evam idam ālocyamāṇam atyantasthūlatām āpannam iti | tasmāt sa upāyaḥ eva na asti

iti sūktam |

atha etau mahāntau rāśī kasmāt ucyete, na punar apavartitau eva ucyete; ācāryaḥ ca
lāghavikaḥ, na tasya lāghavikasya mahārāśyabhīdhānam yujyate | idam ekam
ācāryasya mṛśyatām | athavā ayutadvayaṣkambham iti alpaiḥ akṣaraiḥ ucyate | na
tathā apavartitaviṣkambhābhīdhāne alpākṣaratā | athavā manyate ā
mahāparidhiviṣkambhābhīdhāne mahāviṣkambhāsu jyāsu alpaparigrahāpacayeṣu na
phalaviśeṣaḥ alpāntaratvāt iti, tathā ca "makhi" ādiṣu kvacit
asataḥ upādānam kṛtam, kvacit ca sataḥ parityāgaḥ |

pariṇāhaḥ paridhiḥ, vṛttam kṣetram, vṛttasya pariṇāhaḥ vṛttapariṇāhaḥ, vṛttaparidhiḥ iti
arthaḥ | anena viṣkambhe nirjñāte paridhiḥ ānīyate, paridhau ca nirjñāte viṣkambhe iti |
katham ? yadi asya viṣkambhasya ayam paridhiḥ icchāviṣkambhasya kiyān, yadi asya
paridheḥ ayam viṣkambhaḥ icchāparidheḥ kiyān iti |

uddeśakaḥ ā

dvicatuḥsaptāṣṭānām vyāsānām yāni vṛttagaṇitāni |
sūkṣmāsannāni sakhe vigaṇaya gaṇitānusāreṇa || 1 ||

kṣetrasya nyāsaḥ ā

parilekhaḥ 28

labhdāni vṛttāni yathākrameṇa ā

6 12 21 25

177 354 1239 83

625 625 1250 625

paridhau nirjñāte viṣkambhānayanane uddeśakaḥ ā

navanavayamarāmāṇām aṣṭābhiḥ śarayamāṃśahīnānām |
khakharasavṛndasya ca me vyāsau ācakṣva vigaṇayya || 2 ||

nyāsaḥ ā

3299

8

25 | 21600

labdhau yathākrameṇa vyāsau 1050 | 6875

625

1309

[chedyakavidhinā jyā ānayanam]

atha jyānayanārtham āha ā

samavṛttaparidhipādam chindyāt tribhujāt caturbhujāt ca eva |
samacāpajyārdhāni tu viṣkambhārdhe yathā iṣṭāni || 11 ||

samavṛttam paridhiḥ yasya kṣetrasya tatkṣetram samavṛttaparidhiḥ, tasya pādaḥ
samavṛttaparidhipādaḥ | sati etasmin vyākhyāne kṣetraphalasya grahaṇam prāpnoti |
ācāryaprabhākareṇa ayam eva vighrahaḥ pradarśitaḥ | sa guruḥ iti kṛtvā asmābhiḥ na

upālabhyate | anyat ca ā kāṣṭhatulyajyābhīdhānam yuktam iti asāstrajñāḥ api jānāti iti
tena eva kāṣṭhatulyajyā pratyākhyātā | vayam tu brūmaḥ ā asti kāṣṭhatulyajyā iti | yadi
kāṣṭhatulyajyā na syāt tadā samāyāmanau

vyavasthānam eva ayoguḍasya na syāt | tena anumīmahe kaścit pradeśaḥ saḥ asti iti
yena asau ayoguḍaḥ samāyāmanau avatiṣṭhate | sa ca pradeśaḥ paridheḥ
ṣaṇṇavatyaṃśaḥ | kāṣṭhatulyajyā anyaiḥ api ācāryaiḥ abhyavagatā ā

tatparidheḥ śatabhāgam sprśati dharām golakaśarīrāt |

iti | samavṛttaḥ ayam paridhiḥ samavṛttaparidhiḥ, samavṛttaparidheḥ pādaḥ
samavṛttaparidhipādaḥ, tam samavṛttaparidhipādam chindyāt | jyāvibhāgena iti
vākyaśeṣaḥ | jyāvibhāgena samavṛttaparidhau khaṇḍyamāne tribhujāt caturbhujāt ca
kṣetrāt samacāpajyārdhāni niṣpadyante, na viśamacāpajyārdhāni | tāni viśiṣṭāni eva
parigrhyante, dvicaturaṣṭaṣoḍaśadvātriṃśat iti ādīni dviguṇottarāṇi | "tu"-śabdāt
dvicatuṣṣaḍaṣṭadaśadvādaśacaturdaśādīni ca | viṣkambhārdhe
tribhujakṣetram utpadyate | tasmāt tribhujāt caturbhujāt ca kṣetrajyārdhāni niṣpadyante |

katham punar viṣkambhārdhe tribhujam ca caturbhujakṣetram utpadyate iti ucyate ā
yasya vyāsārdham bhujā karṇaḥ vā bhavati tadvyāsārdhe niṣpannam | athavā
viṣkambhārdhe eva jyārdhāni niṣpadyante | viṣkambhārdhāvayavatvāt na
viṣkambhārdham atiricya vartante iti arthaḥ | athavā viṣkambhārdhe sati jyārdhāni
niṣpadyante | nirjñāte hi viṣkambhārdhe śakyate jyā kalpayitum, na anyathā | katham ?
yasmāt uktam "paridheḥ ṣaḍbhāgajyā viṣkambhārdhena
sā tulyā" [gaṇitāī, 9] iti | yathā iṣṭāni yathā īpsitāni, samacāpajyārdhāni |

asyām kārikāyām jyotpattivistumātram eva pratipāditam ācāryeṇa, [karaṇam] tu na
pratipāditam; pradeśāntaraprasiddhatvāt karaṇasya | athavā jyotpattau yat karaṇam tat

sarvam chedyakaviṣayam, chedyakam ca vyākhyānagamyam iti [na] pratipāditam |

atha kim artham samavṛttaparidhipādaḥ eva jyāvibhāgena chidyate, na punar
samavṛttaparidhiḥ chedyate ? na eṣaḥ doṣaḥ | samavṛttaparidhipādapramāṇamātram
trayaḥ rāśayaḥ | evam caturṣu caturbhāgeṣu | yasmāt paridhipādapramāṇasya tulyatvāt
sarveṣām paridhipādānām jyārdhāni tulyāni bhavanti iti paridhipādajyārdhe iti eva
pratipāditāni vyavahāraprasiddhyartham |

uddeśakaḥ ā

vasudahanakṛtahutāśanasankhye viṣkambhārdhe kiyatpramāṇāni jyārdhāni |

rāśyardhakāṣṭhāni niṣpādyante | viṣkambhārdham 3438 |

karaṇam ā yāvat tāvat pramāṇaparicchinnaviṣkambhārdhatulyena karkaṭakena
maṇḍalam ālikhya tat dvādaśadhā vibhajet | te ca dvādaśabhāgāḥ rāśayaḥ iti
parikalpyāḥ | atha dvādaśadhā vibhakte maṇḍale pūrveṇa rāśidvayāgrāvagāhinīm
dakṣiṇottarām jyākārām lekhām kuryāt | evam paścimabhāge api | evam eva
dakṣiṇottarabhāgayoḥ api ca pūrvāparāyatām jyām kuryāt | punar api ca
pūrvāparadakṣiṇottaradikṣu tathā eva ca rāśicatuṣṭayāgrāvagāhinyaḥ
lekhāḥ kuryāt | tathā tryaśrī[ṇi] kartavyāni |

tathā ca paridhiniṣpannam kṣetram karkaṭakena viracitavartikāmukhena likhyate | evam
ālikhite kṣetre sarvam pradarśayitavyam |

parilekhaḥ 29

atra ālekhye vyāsārdhatulyā caturṇām kāṣṭhānām [pūrṇa]jyā | tadardham dvikāṣṭhajyā |
sā ca 1719 | eṣā bhujā, vyāsārdham karṇaḥ iti, bhujākarṇavargaviśeṣasya mūlam
avalambakaḥ | sā eva caturṇām kāṣṭhānām jyā | sā ca 2978 | etām vyāsārdhāt
viśodhya śeṣam dvikāṣṭhaśaraḥ, śaradvikāṣṭhajyāvargayogamūlam karṇaḥ | sā eva
dvikāṣṭha[pūrṇa]jyā ca 1780 | ardham asyāḥ kāṣṭhasya ekasya jyā, 890 | eṣā bhujā,
vyāsārdham karṇaḥ | bhujākarṇavargaviśeṣasya
mūlam avalambakaḥ | sa ca pañcānām kāṣṭhānām jyā | sā ca 3321, viṣamatvāt ataḥ jyā
na utpadyante | evam tribhujāt pañca jyārdhāni vyākhyātāni |

antaḥsamacaturaśrakṣetre vyāsārdhatulyā bāhavaḥ | tasya karṇaḥ vyāsārdhayoḥ
vargayogamūlam | tat ca 4862 | asya ardham trayāṇām kāṣṭhānām jyā | sā ca 2431 |
evam ekā jyā caturbhujāt niṣpannā, viṣamatvāt utpattiḥ na asti |

viṣkambhārdhe ṣaṭ rāśyardhakāṣṭhajyārdhāni pratipāditāni | tasmin eva viṣkambhārdhe
rāśicaturbhāgakāṣṭhajyā vyākhyāsyāmaḥ | tat yathā ā pūrvavat ālikhite kṣetre
vyāsārdham eva aṣṭānām kāṣṭhānām [pūrṇa]jyā | tadardham caturṇām kāṣṭhānām jyā,
sā ca 1719 | iyam bhujā, vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣamūlam koṭiḥ | sā
aṣṭānām kāṣṭhānām jyā, sā ca 2978 | etām vyāsārdhāt viśodhya śeṣam
catuḥkāṣṭhajyāśaraḥ |

śaracatuṣkāṣṭhajyāvargayogamūlam karṇaḥ | sā caturṇām kāṣṭhānām [pūrṇa]jyā, sā ca
1780 | taddalam dvikāṣṭhajyā, [sā] ca 890 | eṣā bhujā, vyāsārdham karṇaḥ,
bhujākarṇavargaviśeṣamūlam koṭiḥ | sā daśānām kāṣṭhānām jyā, sā ca 3321 | etām
vyāsārdhāt viśodhya śeṣam dvikāṣṭhaśaraḥ | śaradvikāṣṭhajyāvargayogamūlam karṇaḥ
| sā eva dvikāṣṭha[pūrṇa]jyā, sā ca 898 | ardham asyāḥ kāṣṭhasya ekasya jyā, sā ca
449 | eṣā bhujā, vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣasya
mūlam koṭiḥ | sā ekādaśānām kāṣṭhānām jyā, sā ca 3409 | viṣamatvāt ataḥ jyā na
utpadyate |

atha dvikāṣṭhajyām vyāsārdhāt viśodhya śeṣam daśakāṣṭhaśaraḥ |
śaradaśakāṣṭhajyāvargayogamūlam karṇaḥ | sa [eva] kāṣṭhānām daśānām [pūrṇa] jyā,
sā ca 4186 | ardham asyāḥ pañcānām kāṣṭhānām jyā, sā ca 2093 | eṣā bhujā,
vyāsārdham karṇaḥ, bhujākarnāvargaviśeṣasya mūlam koṭiḥ | sā saptānām kāṣṭhānām
jyā, sā ca 2728 | viṣamatvāt ataḥ jyā na utpadyate | evam tribhujāt nava jyārdhāni |

pūrvavaduktasamacaturaśrakṣetrasya vyāsārdhabāhukasya vyāsārdhayoḥ
vargayogamūlam karṇaḥ | sa ca dvādaśānām kāṣṭhānām [pūrṇa]jyā, sā ca 4862 |
ardham asyāḥ ṣaṇṇām kāṣṭhānām jyā, sā ca 2431 | etām vyāsārdhāt viśodhya śeṣam
ṣaṭkāṣṭhaśaraḥ, śaraṣaṭkāṣṭhajyāvargayogamūlam karṇaḥ | sa eva ṣaṇṇām kāṣṭhānām
[pūrṇa]jyā, sā ca 2630 | ardham asyāḥ trayāṇām kāṣṭhānām jyā, sā ca 1315 | eṣā
bhujā, vyāsārdham karṇaḥ, bhujākarnāvargaviśeṣasya
mūlam koṭiḥ | sā navānām kāṣṭhānām jyā | sā ca 3177 | viṣamatvāt ataḥ jyā na
utpadyate | evam caturbhujāt tisraḥ jyāḥ | viṣkambhārdhe dvādaśa |

dvādaśa rāśicaturbhāgakāṣṭhajyārdhāni vyākhyātāni | tasmin eva viṣkambhārdhe
rāśyaṣṭabhāgajyā vakṣyāmaḥ | tat yathā ā pūrvavadālikhite kṣetre vyāsārdham eva
ṣoḍaśānām kāṣṭhānām [pūrṇa]jyā | tadardham aṣṭānām kāṣṭhānām jyā, sā ca 1719 |
eṣā bhujā, vyāsārdham karṇaḥ, bhujākarnāvargaviśeṣasya mūlam koṭiḥ | sā
ṣoḍaśānām kāṣṭhānām jyā, sā ca 2978 | etām vyāsārdhāt viśodhayet | śeṣam
aṣṭakāṣṭhaśaraḥ | śaraṣṭakāṣṭhajyāvargayogamūlam
karṇaḥ | sa eva aṣṭānām kāṣṭhānām [pūrṇa]jyā, sā ca 1780 | ardham asyāḥ caturṇām
kāṣṭhānām jyā, sā ca 890 | eṣā bhujā, vyāsārdham karṇaḥ, bhujākarnāvargaviśeṣasya
mūlam koṭiḥ | sā eva viṣṣateḥ kāṣṭhānām jyā, sā ca 3321 | etām vyāsārdhāt viśodhya
śeṣam catuḥkāṣṭhaśaraḥ | śaracatuṣkāṣṭhajyāvargayogamūlam karṇaḥ | sa eva
caturṇām kāṣṭhānām [pūrṇa]jyā, sā ca 898 | ardham asyāḥ kāṣṭhayoḥ jyā, sā ca 449 |

eṣā bhujā, vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣasya
mūlam koṭiḥ | sā eva dvāviṃśateḥ kāṣṭhānām jyā, sā ca 3409 | etām vyāsārdhāt
viśodhayet | śeṣam dvikāṣṭhaśaraḥ | śaradvikāṣṭhajyāvargayogamūlam karṇaḥ | sa eva
kāṣṭhayoḥ [pūrṇa]jyā, sā ca 450 | ardhham asyāḥ kāṣṭhasya jyā, sā ca 225 | eṣā bhujā,
vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣasya mūlam koṭiḥ | sā eva trayoviṃśateḥ
kāṣṭhānām jyā, sā ca 3431 | viṣamatvāt ataḥ jyā na utpadyate |

atha caturṇām kāṣṭhānām jyām vyāsārdhāt viśodhayet | śeṣam viṃśateḥ kāṣṭhānām
śaraḥ | śaraviṃśatikāṣṭhajyāvargayogamūlam karṇaḥ | sa viṃśateḥ kāṣṭhānām
[pūrṇa]jyā, sā ca 4186 | ardhham asyāḥ daśānām kāṣṭhānām jyā, sā ca 2093 | eṣā bhujā,
vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣasya mūlam koṭiḥ, sā eva caturdaśānām
kāṣṭhānām jyā, sā ca 2728 | etām vyāsārdhāt viśodhayet | śeṣam daśakāṣṭhānām
śaraḥ | śaradaśakāṣṭhajyāvargayogamūlam
karṇaḥ | sa eva daśānām kāṣṭhānām [pūrṇa]jyā, sā ca 2210 | ardhham asyāḥ pañcānām
kāṣṭhānām jyā, sā ca 1105 | eṣā bhujā, vyāsārdham karṇaḥ,
bhujākarṇavargaviśeṣamūlam koṭiḥ | sā eva ekonaviṃśateḥ kāṣṭhānām jyā, sā ca 3256
| viṣamatvāt ataḥ jyā na utpadyate |

atha dvikāṣṭhajyām vyāsārdhāt viśodhayet | śeṣam dvāviṃśateḥ kāṣṭhānām śaraḥ |
śaradvāviṃśatikāṣṭhajyāvargayogamūlam karṇaḥ | sa eva dvāviṃśateḥ kāṣṭhānām
[pūrṇa]jyā | sā ca 4534 | ardhham asyāḥ ekādaśānām kāṣṭhānām jyā, sā ca 2267 | eṣā
bhujā, vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣasya mūlam koṭiḥ | sā eva
trayodaśānām kāṣṭhānām jyā, sā ca 2585 | viṣamatvāt ataḥ jyā na utpadyate |

atha daśānām kāṣṭhānām jyām vyāsārdhāt viśodhayet | śeṣam caturdaśānām
kāṣṭhānām śaraḥ | śaracaturdaśakāṣṭhajyāvargayogamūlam karṇaḥ | sa eva
caturdaśānām kāṣṭhānām [pūrṇa] jyā, sā ca 3040 | ardhham asyāḥ saptānām kāṣṭhānām

jyā, sā ca 1520 | eṣā bhujā, vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣamūlam koṭiḥ |
 sā eva saptadaśānām kāṣṭhānām jyā, sā ca 3084 | viṣamatvāt ataḥ jyā na utpadyate |

evam tribhujāt rāśyaṣṭabhāgakāṣṭhajyāḥ vyākhyātāḥ | atha caturbhujāt vyākhyāsyāmaḥ
 | antaḥsamacaturaśrakṣetrasya vyāsārdhatulyāḥ bāhavaḥ | tayoḥ vargayogamūlam
 karṇaḥ | sa eva caturviṃśateḥ kāṣṭhānām [pūrṇa]jyā, sā ca 4862 | ardhham asyāḥ
 dvādaśānām kāṣṭhānām jyā, sā ca 2431 | etām vyāsārdhāt viśodhayet | śeṣam
 dvādaśānām kāṣṭhānām śaraḥ | śaradvādaśakāṣṭhajyāvargayogamūlam karṇaḥ | sa
 eva dvādaśānām kāṣṭhānām [pūrṇa]jyā,

sā ca 2630 | ardhham asyāḥ ṣaṇṇām kāṣṭhānām jyā, sā ca 1315 | eṣā bhujā,
 vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣasya mūlam koṭiḥ | sā aṣṭādaśānām
 kāṣṭhānām jyā, sā ca 3177 | etām vyāsārdhāt viśodhayet | śeṣam ṣaṇṇām kāṣṭhānām
 śaraḥ | śaraṣṭkāṣṭhajyāvargayogamūlam karṇaḥ | sa eva ṣaṇṇām kāṣṭhānām
 [pūrṇa]jyā, sā ca 1342 | ardhham asyāḥ trayāṇām kāṣṭhānām jyā, sā ca 671 | eṣā bhujā,
 vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣasya mūlam koṭiḥ,
 sā eva ekaviṃśateḥ kāṣṭhānām jyā, sā ca 3372 | viṣamatvāt ataḥ jyā na utpadyate |

atha ṣaṇṇām kāṣṭhānām jyām vyāsārdhāt viśodhayet | śeṣam aṣṭādaśakāṣṭhānām
 śaraḥ | śarāṣṭādaśakāṣṭhajyāvargayogamūlam karṇaḥ | sa eva aṣṭādaśānām
 kāṣṭhānām [pūrṇa]jyā, sā ca 3820 | ardhham asyāḥ navānām kāṣṭhānām jyā, sā ca 1910
 | eṣā bhujā, vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣamūlam koṭiḥ | sā eva
 pañcadaśānām kāṣṭhānām jyā, sā ca 2859 | viṣamatvāt ataḥ jyā na utpadyate |

evam rāśyaṣṭabhāgakāṣṭhajyāḥ caturviṃśatiḥ | anena eva vidhānena viṣkambhārdhe
 yatheṣṭāni jyārdhāni niṣpādayitavyāni iti || 11 ||

[prakārāntareṇa khaṇḍajyā]

jyāvibhāgapradarśanārtham āha ā

prathamāt cāpajyārdhāt yaiḥ ūnam khaṇḍitam dvitīyārdham |

tatprathamajyārdhāṃśaiḥ taiḥ taiḥ ūnāni śeṣāṇi || 12 ||

prathamāt ādyāt cāpajyārdhāt | yaiḥ ūnam yāvadbhiḥ aṃśaiḥ ūnam aprāptasadṛśam |
kim tat ? khaṇḍitam dvitīyārdham, khaṇḍitam pūrvāryābhīhitacchedyakavidhinā chinnam
dvitīyacāpajyārdham | tatprathamajyārdhāṃśaiḥ | tat iti yāvadbhiḥ
prathamacāpajyārdhāt dvitīyacāpajyārdham ūnam tāvantaḥ taiḥ pariḡrhyante, jyāyāḥ
ardham jyārdham, prathamam ca tajjyārdham ca prathamajyārdham ; athavā prathamā
ca asau jyā ca prathamajyā, prathamajyā
ca asau ardham ca prathamajyārdham ; prathamajyārdhasya aṃśaḥ
prathamajyārdhāṃśaḥ ; prathamajyārdhāṃśaḥ ca prathamajyārdhena bhāgam hr̥tvā
labdhā yathā pañcāṃśaḥ ṣaḍaṃśaḥ, te ca prathamajyārdhāṃśāḥ ca
tatprathamajyārdhāṃśāḥ taiḥ tatprathamajyārdhāṃśaiḥ | taiḥ taiḥ aṃśaiḥ iti
vīpsāgrahaṇam ca arthavat bhavati | ūnāni śeṣāṇi | ūnāni rahitāni, śeṣāṇi tr̥tīyādi
jyārdhāni bhavanti |

tat yathā ā prathamam cāpajyārdham idam chedyakena niṣpannam 225 | dvitīyam
cāpajyārdhacchedam 224 | etat prathamacāpajyārdhāt ekena ūnam |
dvitīyacāpajyārdhāṃśam prathamacāpajyārdham ca ekatra 449 | asya
prathamacāpajyārdhena bhāge [hr̥te] labdham ardhādhikena dve rūpe | tābhyām
pūrveṇa ca [ekena ūnam] prathamacāpajyārdham [tr̥tīyajyārdham] bhavati | tat ca 222 |
trayāṇām saṃyogaḥ 671 | asya prathamacāpajyārdhena bhāgalabdham ardhādhikena
tr̥tīni rūpāṇi | taiḥ pūrvalabdhaiḥ ca tribhiḥ ūnam prathamacāpajyārdham

caturthajyārdham bhavati | tat ca 219 | caturṇām jyārdhānām saṃyogaḥ 890 | asya
prathamajyārdhena bhāgalabdham catvāri rūpāṇi ardhādhikena | taiḥ pūrvaiḥ ca
ṣaḍbhiḥ ūnam prathamam cāpajyārdham pañcamajyārdham bhavati | tat ca 215 | etaiḥ
śeṣāṇi vyākhyātāni iti |

idam ca vyākhyānam ācāryaprabhākareṇa vyākhyātam | tat ca ayuktam anarthakam
apratyākhyāya vyākhyānam kartum | katham anarthakam ? atra gaṇitaśāstre
laghūpāyapradarśanārtham upāyāntarapradarśanārtham vā sūtrāntaram ārabhyate |
atra anyataragandhaḥ api na asti | katham ? pūrvāryābhihitachedyakavidhinā
nirjñātābhyām prathamadvitīyacāpajyārdhābhyām idam karma kriyate | tasmin
dvisūtrāyatavāt karmaṇaḥ lāghavam na asti | upāyāntaratā
ca [na] pūrvasūtrāśrayatvāta |

etasmāt na arthaḥ anena sūtreṇa | katham punar imāḥ jyāḥ pṛthak pṛthak vijñāyante ?
atibālīśavākyaṃ etat | tajjyotpatteḥ | kāṣṭhadvikāṣṭhatrikāṣṭhādijyārdhāni pratipāditāni |
teṣām anyonyaviśeṣeṇa pṛthak pṛthak jyāḥ bhavanti iti agaṇitajñāḥ api ca jānāti, kim
punar sāmṃvatsaraḥ | tathā ca mandabuddhipratipattiyartham prastīryate | tat yathā ā

225, 449, 671, 890, 1105, 1315, 1520. 1719, 1910, 2093, 2267, 2431, 2585, 2728,
2859, 2978, 3084, 3177, 3256, 3321, 3372, 3409, 3431, 3438 |

anantarānantararahitāḥ krameṇa pṛthak pṛthak jyāḥ ā

225, 224, 222, 219, 215, 210, 205, 199, 191, 183, 174, 164, 154, 143, 131, 119, 106,
93, 79, 65, 51, 37, 22, 7 |

etāḥ eva utkrameṇa antyāt ārabhya utkramajyāḥ || 12 ||

[vṛttādisiddhiḥ]

vṛttādisiddhim diṅmātrapradarśanārtham āha ā

vṛttam bhrameṇa sādhyam tribhujam ca caturbhujam ca karṇābhyām |
sādhyā jalena samabhūḥ adhaḥ ūrdhvam lambakena eva || 13 ||

vṛttam kṣetram bhrameṇa sādhyate | bhramaśabdena karkaṭakaḥ parigrhyate | tena
karkaṭena samavṛttam kṣetram parilekhapramāṇena parimīyate | tribhujam ca
caturbhujam ca karṇābhyām | tribhujam kṣetram caturbhujam ca kṣetram karṇābhyām
prasādhyate | tribhujā tāvat samāyāmanau sūtram prasārya rekhām kuryāt | sā ca ā

āāāāāāāāāāāāāāāā

parilekhaḥ 30

atra ubhayāgravyavasthitena karkaṭakena matsyam utpādayet |
etadvaktrapucchaniṣkrāntāparasūtram avalambakaḥ |

parilekhaḥ 31

asya agre sūtrasya ekam agram nidhāya dvitīyāgram bhūmyagre niścalam nidhāya
rekhām kuryāt | dvitīyāgre api tathā eva | evam te karṇasūtre | tābhyām
karṇasūtrābhyām prasādhitam tribhujam ā

parilekhaḥ 32

caturbhujē iṣṭacaturbhujā[karṇa]tulyam sūtram tiryak prasārayet | tat ca sūtram ā

parilekhaḥ 33

dvitīyam ca etat madhyajanitasvastikam tiryak eva prasāryate | tathā ca karṇasūtre

parikekhaḥ 34

etayoḥ pārśvāni pūritāni, caturaśrakṣetram niṣpannam |

parilekhaḥ 35

sādhyā jalena samabhūḥ | samabhūḥ jalena sādhyate | tat yathā ā

cakṣuḥsūtrasamīkṛtāyāmavanau trikāṣṭhopari nirvāte jalakumbham nidhāya adhaḥ
suṣiram kuryāt, yathā tat udakam ekarūpayā dhārayā sravati | tat prasrutam ambhaḥ
samantāt parivartulam yatra prayāti sā bhūḥ samā, yatra tat ambhaḥ vṛttam bhaṅktvā
pratiṣṭhate tat nimnam, yatra na avagāhate tat unnam iti | adhaḥ ūrdhvam lambakena
eva | adhaḥ upalakṣitasya yaḥ ūrdhvapradeśaḥ saḥ
avalambakena eva sādhyate | ūrdhvapradeśasya vā yaḥ adhaḥpradeśaḥ asau api
avalambakena eva | avalambakaḥ ca gurudravayaikāgrāsaktam sūtram iti || 13 ||

[svavṛttaviṣkambhārdham]

svavṛttaviṣkambhārdhānayanārtham āha ā

śaṅkoḥ pramāṇavargam chāyāvargena samyutam kṛtvā |

yat tasya vargamūlam viṣkambhārdham svavṛttasya || 14 ||

[śaṅkoḥ ākāraprakāravivecanam]

atra śaṅkoḥ ākārapramāṇayoḥ vipravadante sāmṇvatsarāḥ | kecit tāvat āhuḥ ā
dvādaśāṅgulaśaṅkuḥ mūlatribhāge caturaśraḥ, madhyatribhāge tryaśriḥ, uparitribhāge
śūlākāraḥ iti | sūkṣmatvāt vighrahasya sūkṣmayā ekayā koṭyā chāyāgrasya sulakṣyatvāt
śeṣaiḥ ca duḥsampādatvāt iti tat ca na | śūlāgrasya avalambakasya vinyāsābhāvāt rjutā
eva duḥsampādyā | tadabhāvāt sarvaguṇābhāvaḥ | gopucchākṛtivṛttodaraḥ tu
bhraṣṭāvalambakatvena eva pratyākhyātā

|

apare āhuḥ ā caturaśraḥ caturdiśam avalambakasādhanasambhavāt koṭidvayena
chāyāgrahaṇāt abhīṣṭakoṭyām diggrahaṇasiddhiḥ iti | etat api yujyate, kintu tādrśasya
samprati śilpinaḥ samacaturaśrakṣetrasampādinaḥ durlabhatvāt yadi api
svabhyastavidyaḥ kaścit kadācit sambhavet, tathā api pratikṣaṇam sūryasya
abhimukhasthāpanāt punar punar śaṅkoḥ mukhacālanam kartavyam | tathā ca
atisūkṣmadrśaḥ tāvatā abhīṣṭacchāyātikrāntā syāt iti doṣaḥ, etasmāt
parityājyaḥ ayam api śaṅkuḥ | anena eva sarvatra śaṅkavaḥ prayuktāḥ |

āryabhaṭṭīyāḥ svamatam abhininiṣṭhāpayiṣavaḥ vyāvāṇayanti | tat yathā ā
praśastadārumayaḥ hi asuṣiraḥ rājigranthavraṇavarjitaḥ bhramasiddhaḥ
mūlamadhyāgrāntarālatulyavṛttaḥ na alpavyāsaḥ na alpāyāmaḥ ca praśastaḥ | tribhiḥ
caturbhiḥ vā avalambakaiḥ asya rjusthitiḥ sādhayitavyā | śaṅkoḥ madhyasūtrasya
asiddhatvāt avalambakasthitiḥ api duḥsampādya iti ataḥ śaṅkumadhyasūtrasādhanam
pradarśyate | tat yathā ā śaṅkumucce pradeśe niścalam nidhāya
avalambakena śaṅkumūlamastakayoḥ madhye vijñāya tadagrasaktam sūtram prasārya
ubhayapārśve ca lekhe kuryāt | etat ubhayapārśvamadhyalekhe, tataḥ punar api

karkaṭakena lohena mūlāgramadhyasūtrābhyām matsyam utpādya
śeṣamadhyaḷekhāsādhanam | nanu ca atra api doṣaḥ asti eva, sarvadikṣu
tanmastakasya chāyāgrasya vipulavṛttatvāt chāyāmadhyam durlakṣyam | tena ca vinā
ādighraṇābhāvaḥ iti | na eṣaḥ doṣaḥ | śaṅkoḥ upari kendre viṣkambhārdhādrikānyā
samavṛttā śalākā madhyaprasādhinī lohī dārvī vā kriyate | tadā
ādighraṇāmadhyaparijñānam ca bhaviṣyati iti | athavā prājñasya avalambakasūtreṇa
pūrvavinyastena eva kiñcit utkṣiptena madhyaparijñānam | atha aṅgulavibhāgāt
tīkṣṇena śastreṇa manāk śakalitam kṛtam | anyathā hi pramāṇagrahaṇam anarthakam
syāt | tasmāt yatheṣṭapramāṇaḥ śaṅkuḥ dvādaśāṅgulaḥ iti suprasiddham aṅgikṛtya
ucyate | uddeśakeṣu etat pratipādayiṣyāmaḥ | yāvat yāvat ayam pṛthuḥ
guruḥ ca bhavati tāvat tāvat vāyunā na eva cālyate, yāvat yāvat ca dīrghaḥ bhavati
tāvat tāvat ca aṅgulāvayavāḥ sūkṣmāḥ suparijñātāḥ bhavanti | tasmāt
pṛthugurudīrghreṣu ādaraḥ kāryaḥ iti abhihitāḥ śaṅkoḥ ākāraḥ |

[śaṅkupramāṇavivecanam]

idānīm pramāṇam upadekṣyāmaḥ | kecit āhuḥ ā ardhahastaḥ dvādaśadhā
vibhaktaśarīraḥ iti | na eṣaḥ niyamaḥ | kintu abhīṣṭasaṅkhyāpravibhaktaśarīraḥ
abhīṣṭasaṅkhyāpravibhaktaḥ iti arthaḥ | yatra pramāṇagrahaṇam kṛtam, tatra api
samāṅgulavibhāge kendravibhāge ca kauśalam abhyasanīyam |

[śloka-vyakhyā]

śaṅkoḥ pramāṇavargam, śaṅkoḥ ittham prapañcatapramāṇasya pramāṇagrahaṇam
aniyatapramāṇapratipādanārtham iti uktam | yadi śaṅkoḥ niyatam eva pramāṇam syāt
tadā śaṅkoḥ vargam iti iyatā api ucyamāne tanniyatapramāṇaḥ eva pratipattiḥ |

pramāṇasya vargaḥ pramāṇavargaḥ, tam pramāṇavargam | chāyāvargeṇa, chāyāyāḥ
vargaḥ chāyāvargaḥ, tena chāyāvargeṇa | samyutam kṛtvā, ekīkṛtya iti arthaḥ | yat tasya
vargamūlam, tasya samyuktasya rāśeḥ

vargamūlam yat, tat svavṛttaviṣkambhārdham bhavati | kim tat vṛttam yasya idam
viṣkambhārdham iti ucyate ? tat mūlatulyena karkaṭakena ālikhitasya vṛttasya tat
viṣkambhārdham | yadi evam sarve eva samkhyāviśeṣaḥ svavṛttaviṣkambhārdham
bhavati | na eṣaḥ doṣaḥ | yadi sarvasaṅkhyāviśeṣaḥ svavṛttaviṣkambhārdham bhavati
eva, kim naḥ chinnam ? atra punar śaṅkupramāṇacchāyāvargayogamūlam
svaviṣkambhārdham viśiṣṭam eva parigrhyate, tena anyasya
svavṛttaviṣkambhārdhasya grahaṇam na eva atra prasajyate | prasakte ca
doṣaparihāraḥ vā vidhīyate | atra ca svavṛttaviṣkambhārdhagrahaṇam
trairāśikaprasiddhyartham ā yadi asya svavṛttaviṣkambhārdhasya ete śaṅkucchāye tadā
golaviṣkambhārdhasya ke iti śaṅkucchāye labhyete | tau eva viṣuvati avalambakākṣajye
iti ucyate |

uddeśakaḥ ā

pañcanavārdhacaturthā chāyā dṛṣṭā kṣitau samāyām tu |
viṣuvan madhye sūtre śaṅkoḥ dvādaśavibhaktasya || 1 ||

nyāsaḥ ā śaṅkuḥ 12, chāyā 5; śaṅkuḥ 12, chāyā 9; śaṅkuḥ 12, chāyā

3

1

2

karaṇam ā śaṅkucchāyayoḥ vargau 144, 25, ekatra 169 | asya mūlam
svavṛttaviṣkambhārdham | tat ca idam 13 | etasya kṣetrasya nyāsaḥ ā

parilekhaḥ 36

svavṛttaviṣkambhārdham nāma chāyāgrāt ārabhya śaṅkumastakaprāpi sūtram |
tatsūtrānusāreṇa bhūmau dṛṣṭim nidhāya śaṅkumastakāsaktam vivasvantam paśyati |
akṣajyā ānayane trairāśīkasthāpanā ā 13 | 5 | 3438 | labdham akṣajyā 1322 | eṣā bhujā,
vyāsārdham karṇaḥ, bhujākarṇavargaviśeṣamūlam avalambakaḥ 3174 | trairāśīkena api
13 | 12 | 2328 | labdham avalambakaḥ 3174 | apare api atra kṣetraviśeṣāḥ | trairāśīke
vācaḥ yuktiḥ ā yadi asya

svavṛttaviṣkambhārdhasya chāyātulyā bhujā śaṅkutulyaḥ avalambakaḥ tadā asya
golavyāsārdhasya kau bhujau alambau iti | chāyayā ghaṭikānayane, madhyāhne
chāyayā ca sūryānayane svavṛttaviṣkambhārdhasya ayam eva vidhiḥ | kintu chāyayā
ghaṭikānayane śaṅkunā kāryam iti śaṅkuḥ eva ānīyate | samamaṅdalachāyayā
sūryānayane sa eva | madhyāhnacchāyayā sūryānayane natajyayā prayojanam iti
chāyā eva ānīyate |

śeṣayoḥ api svavṛttaviṣkambhārdhe 15 |

12

1

2 |

trairāśīkena eva akṣajyāvalambakau 2063, 2750; 963, 3300 |

uddeśakaḥ ā

pañcadaśāṅgulaśaṅkoḥ pādena yutā ṣaḍaṅgulā chāyā |

viśuvat dinamadhyāhne vācyā akṣajyā avalambakau ca atra || 2 ||

nyāsaḥ ā śaṅkuḥ 15, chāyā

6

1

4 |

āgatam svavṛttaviṣkambhārdham

16

1

4 |

anena svavṛttaviṣkambhārdhena āgatau akṣajyau alambakau 1322, 3174 |

uddeśakaḥ ā

triṃśat pramāṇaśaṅkoḥ ṣoḍaśa dr̥ṣṭā yadā aṅgulacchāyā |

madhyāt kiyat gataḥ arkaḥ vitatamayūkhaḥ tataḥ vācyah || 3 ||

nyāsaḥ ā śaṅkuḥ 30, chāyā 16 | āgatam svavṛttaviṣkambhārdham 34 | labdham

tadakṣajyā 1618

|| 14 ||

[pradīpacchāyākarma]

pradīpacchāyākarma āha ā

śaṅkuguṇam śaṅkubhujāvivaram śaṅkubhujayoḥ viśeṣahr̥tam |

yat labdham tā chāyā jñeyā śaṅkoḥ svamūlāt hi || 15 ||

śaṅkuḥ guṇaḥ yasya tat śaṅkuguṇam | kim tat iti āha ā śaṅkubhujāvivaram |
bhujāśabdena pradīpocchrāyaḥ ucyate, pradīpocchrāyasya śaṅkoḥ ca yat antarālam tat
śaṅkubhujāvivaram, tat śaṅkuguṇam | śaṅkubhujayoḥ viśeṣahr̥tam śaṅkoḥ
pradīpocchrāyasya yaḥ viśeṣaḥ sa śaṅkubhujayoḥ viśeṣaḥ, tena hr̥tam bhaktam | yat
labdham sā chāyā śaṅkoḥ tasya eva svamūlāt tasya eva śaṅkoḥ mūlāt sā chāyā
labhyate |

uddeśakaḥ ā

yaṣṭipradīpamūlāt dvāsaptatyucchritāt aśītyām ca |
triṅśatkādviṅśatyām sthitasya śaṅkoḥ vada cchāye || 1 ||

nyāsaḥ ā

parilekhaḥ 37

śaṅkubhujāvivaram 80, etat śaṅkuguṇam 960; bhujā 72, śaṅkuḥ 12, etayoḥ viśeṣaḥ 60,
anena hr̥tam śaṅkuguṇam śaṅkubhujāvivaram, labdhā chāyā 16 |

dvitīyoddeśakanyāsaḥ ā

parilekhaḥ 38

pūrvakaraṇena eva labdhā chāyā

13

5

3 |

etat karma trairāśīkam | katham ? śāṅkutaḥ adhikāyāḥ uparibhujāyāḥ yadi
śāṅkubhujāntarālapramāṇam chāyā labhyate tadā śāṅkunā kā iti chāyā labhyate |

viparītakarmanā uddeśakaḥ ā

chāyā ṣoḍaśa dr̥ṣṭā dvāsaptatyucchritasya dīpasya |
mūlam kiyatā śāṅkoḥ dvādaśakasya tvayā vācyam || 2 ||

nyāsaḥ ā

parilekhaḥ 39

karaṇam ā śāṅkubhujāntareṇa anena 60 chāyā labdhā, tena "bhāgaharāḥ te bhavanti
guṇakārāḥ" [gaṇitaí, 28] iti chāyā 16, guṇitā jātā 960; etat eva "śāṅkuguṇam
śāṅkubhujāvivaram" atra api śāṅkuḥ guṇakārah āsīt iti "guṇakārā bhāgaharā" [gaṇita í,
28] iti śāṅkunā 12 hṛtam śāṅkubhujāvivaram labdham | tat ca 80 |

uddeśakaḥ ā

yaṣṭipradīpamūlāt pañcāśadvivarasamsthitaḥ śāṅkuḥ |
tasya cchāyā pañktiḥ vācyāḥ tasmin kiyān dīpaḥ || 3 ||

nyāsaḥ ā

parilekhaḥ 40

karaṇam ā "śāṅkuguṇā koṭī sā chāyābhaktā bhujā bhavati" [gaṇitaí, 16] iti

vakṣyamāṇakaraṇena śāṅkubhujāvivarayuktacchāyā koṭiḥ bhavati iti |
śāṅkubhujāvivaram 50, chāyā 10, ekatra 60, etat śāṅkuguṇam 720, chāyābhaktam
bhujāpramāṇam 72 || 15 ||

[śāṅkucchāyādvayena dīpocchrāyāpasārājñānam]

anirjñātadīpocchrāyāvasānayoḥ śāṅkucchāyādvayena ānayanam āha ā

chāyāguṇitam chāyāgravivaram ūnena bhājitam koṭi |
śāṅkuguṇā koṭi sājchāyābhaktā bhujā bhavati || 13 ||

chāyāguṇitam chāyayā guṇitam | kim chāyāguṇitam ? chāyāgravivaram, chāyāgrayoḥ
vivaram chāyāgravivaram, chāyāgrāntarālabhūmiḥ iti arthaḥ | tat yathā ā
anirjñātocchrāyayaṣṭipradīpāt kiyat api apasṛtya śāṅkuḥ sthāpitaḥ | tasya chāyā jñāyate
eva | tacchāyāgrāt parigaṇite antare dvitīyaśāṅkuḥ, tacchāyāgrāt
pūrvaśāṅkucchāyāgram iti antaram chāyāgravivaram | tadiṣṭayā prathamacchāyayā
dvitīyacchāyayā vā guṇitam | ūnena bhājitam, ūnam chāyayoḥ
viśeṣaḥ, tena ūnena bhājitam | koṭi avasānabhūmiḥ | tat yadi prathamacchāyayā
guṇitam tadā prathamacchāyāgrayaṣṭipradīpāntarālam bhavati, dvitīyayā chāyayā yadi
tadagrayaṣṭipradīpāntarālam | śāṅkuguṇā koṭi, śāṅkuḥ guṇaḥ yasyāḥ sā iyam
śāṅkuguṇā koṭi | chāyābhaktā bhujā bhavati, bhujā yaṣṭipradīpocchrāyaḥ |
chāyādvayam api tatkoṭibhyām prasādhyate |

uddeśakaḥ ā

śāṅkoḥ समयोḥ द्रष्टे क्रमासां दशाशोदासांगुले चाये |
agrāntaram ca drṣṭam triṁśat koṭibhujē vācye || 1 ||

nyāsaḥ ā

parilekhaḥ 41

karaṇam ā chāyāgravivaram 30, etat prathamacchāyāguṇitam 300; chāyayoḥ viśeṣaḥ
6, anena labdham koṭī 50; iyam eva koṭī śaṅkugūṇā jātā 600, chāyābhaktā bhujā 60 |
dviṭīyacchāyātaḥ api koṭī 80, bhujā sā eva 60 |

uddeśakaḥ ā

pañca sapta kramāt chāye narayoḥ tulyayoḥ smrte |
aṣṭau agrāntaram dr̥ṣṭam bhujakoṭī tadā ucyatām || 2 ||

nyāsaḥ ā

parilekhaḥ 42

pūrvavat labdhā koṭī 20, bhujā 48 | dviṭīyacchāyātaḥ api koṭī 28, bhujā sā eva 48 |

viśuvat ahani gaganatala[madhya]vartini savitari

samadakṣiṇottaradeśacchāyāgrāntarālayojanaiḥ chāyāviśeṣeṇa śaṅkunā [ca] kecit

vivasvadavanitalāntarālayojanāni ānayanti, tat ayuktam | atra

pradīpacchāyādvayakarmālāpāvatāraḥ api na upapadyate | kutaḥ ? yasmāt āha

"bhūravivivaram vibhajet" [golaī, 39] iti | bhūḥ śaṅkuḥ, raviyojanakarṇaḥ

śaṅkubhujāvivaram, sakalajagadekapradīpaḥ bhagavān bhāskaraḥ svayam eva

pradīpocchrāyaḥ iti ataḥ

vivasvadavanitalāntarālayojanānayanam na ghaṭate, "bhūravivivaram" iti siddhānām

eva yojanānām upadeśāt | atha savitā eva pradīpocchrāyaḥ iti
savitṛviṣkambhāpramāṇam ānīyate iti cet, tat ca na | yasmāt
svakakṣyākarnabhūvivarayojanaḥ gaganatalamadyāsīnaḥ lokān dyotayan lakṣyate,
tasmāt pradīpocchrāyaḥ svayam savitā [na] bhavitum arhati | atha vivasvān
pradīpocchrāyaḥ, savitṛdharitrīmadyāntarālayojanāni
aśeṣāvanitalamaṇḍalavyāsapramāṇasya śaṅkoḥ
vivaram, tathā ca dvitīyasya tāvat śaṅkoḥ avasthānābhāvāt ca na yujyate | tasmāt
suṣṭhu uktam "pradīpacchāyā[dvaya]karmālāpāvatāraḥ api na upapadyate " iti |

iyam ca dharitrī golākārā paṭhyate | tena tatprṣṭhāvartinām asmākam vakratvāt paridheḥ
śaṅkucchāyā bhujakoṭīkarmaparikalpanā atra [na] pravartate, yataḥ salilasamīkṛte
pradeśe śaṅkucchāyayā bhujakoṭīkarnakṣetrasaṃsthānam, na ca etāvatyā bhuvāḥ
śakyate samīkaraṇam kartum | atha abhyupagamyā idam udāhriyate ā viṣuvatī
ujjayinyām dinārdhāvartinī uṣṇadīdhitau chāyā pañcāṅgulā | tayā akṣaḥ labdhaḥ
bhāgāḥ dvāviṃśatiḥ liptāḥ saptatṛiṃśat

| anena akṣeṇa laṅkojjayinyantarālayojanāni labdhāni saptāmbarayamasāṅkhyāni 207 |
tataḥ ujjayinyā uttareṇa viṣuvatī eva madhyāhnacchāyā sthāneśvare saptāṅgulā | tayā
ca akṣaḥ labdhaḥ bhāgāḥ tṛiṃśat sapādāḥ | anena akṣeṇa

laṅkāsthāneśvarāntarālayojanāni labdhāni śarādriyamasaṅkhyāni 275 | atra eteṣām
yojanānām viśeṣaḥ aṣṭaṣaṣṭīḥ śaṅkudvayavivaram, chāyayoḥ antareṇa dvābhyām
yuktā aṣṭaṣaṣṭīḥ, chāyāgravivaram saptatiḥ | atra gaṇitakarma "chāyāguṇitam
chāyāgravivaram" iti ādikarmaṇā koṭīyojanāni labhyante | taiḥ ca dvitīyacchāyayā
nīyamānaiḥ laṅkāsthāneśvarāntarālayojanaiḥ eva bhavitavyam , yasmāt tasmin kāle
vivasvadadhovasthitaḥ deśaḥ laṅkā | yadi vivasvān bhujā yadi vā vivasvataḥ yaḥ
ucchrāyaḥ, tasmāt koṭeḥ laṅkāsthāneśvarāntarālayojanasāṅkhyānatvāt gaṇitakarma
api atra na krāmati | atra ca yayā koṭyā bhujā sādhyate sā ca tāvat na siddhā, tayā
asiddhayā siddhabhujā sādhyate iti etat ayuktam | anyat

ca yat chāyā dvādaśāṅgulasya śaṅkoḥ pratyakṣam asmābhiḥ upalabdḥā tayā
āṅgulapramāṇayā yojanaiḥ karma kriyate iti etat ca na upapadyate | atha
dvādaśayojanapramāṇasya śaṅkoḥ pañcayojanā saptayojanā ca chāyā iti etat api
tāvataḥ śaṅkoḥ lambakena rjusthitiḥ aśakyā jñātum, na ca utkṣepaṇasthāpane | chāyā
ca samāyāmanau sādhyate tāvatsu yojaneṣu nimnonnatasarit iti ādiviṣamatā tena
tadavagatiḥ na śakyate | tasmāt yathā āgamasiddhau eva sahasramarīceḥ
ucchrāyaviṣkambhau | tataḥ na atra iyam gaṇitaparakriyāprakāravāgurā prasāraṇīyā iti ||
16 ||

[bhujakoṭīkarṇānām sambandhaḥ]

karṇānayanārtham āha ā

yaḥ ca eva bhujāvargaḥ koṭivargaḥ ca karṇavargaḥ saḥ |

yaḥ ca bhujāvargaḥ yaḥ ca koṭivargaḥ etau vargau ekatra karṇavargaḥ bhavati |

uddeśakaḥ ā

trīcātuskabhujākoṭyoḥ śadaṣṭasaṅkhyānayoḥ tayoh ca api |

dvādaśakanavakayoḥ ca krameṇa karṇāḥ vinirdeśyāḥ || 1 ||

nyāsaḥ ā

parilekhaḥ 43

karaṇam ā ete bhujākoṭī 3, 4; etayoḥ vargau 9, 16; ekatra karṇavargaḥ 25, asya mūlam

karnāḥ 5 | evam adhyardhāśrikṣetre āyatacaturaśrakṣetre vā karnāḥ yojyaḥ | evam
pariśiṣṭakṣetrayoḥ karnāu labdhau 10, 15 ||

[vṛtte ardhajyāśarayoḥ sambandhaḥ]

vṛttakṣetrāvagāhjayānayanaāya āryāpaścārdham āha ā

vṛtte śarasamvargaḥ ardhajyāvargaḥ sa khalu dhanuṣoḥ || 17 ||

vṛtte kṣetre, śarayoḥ samvargaḥ śarasamvargaḥ, saḥ ardhajyāvargaḥ bhavati | sa khalu
dhanuṣoḥ, tayōḥ eva dhanuṣoḥ ardhajyāvargaḥ bhavati |

uddeśakaḥ ā

kṣetre daśāviṣkambhe dvikāṣṭasaṅkhyau śarau mayā drṣṭau |
tatra eva navaikamitau ardhajye tu kramāt vācye || 1 ||

nyāsaḥ ā

parilekhaḥ 44

karaṇam ā etau dvau śarau 2, 8 | etayoḥ samvargaḥ ardhajyāvargaḥ 16 | asya mūlam
4, iyam ardhajyā | dvitīyoddeśake api labdhā ardhajyā 3 |

atra eva śyenamūṣikoddeśān vyāvārṇayanti | tat yathā ā ardhajyā bhujā,
ardhajyāmaṇḍalakendrāntarālam koṭiḥ, tadvargayogamūlam karnāḥ
maṇḍalavyāsārdham | tat tu pradarśyate ā

nyāsaḥ ā

parilekhaḥ 45

iyam ardhajyā śyenasthānocchrāyaḥ, ardhajyāparidhyantarālam mūṣikapracārabhūmiḥ,
viṣkambhārdham karṇaḥ śyenamārgaḥ | maṇḍalakendram mūṣikavadhapradeśaḥ | tatra
śyenasthānocchrāyaḥ ardhajyā iti tadvargaḥ, mūṣikapracārabhūmiḥ śaraḥ iti tena
vibhajyate, labdham dvitīyaḥ śaraḥ | tena "antarayuktam hīnam" [śloī 24] iti etam kṛtvā
labdham mūṣikāvāsaprāpyabhūmiḥ śyena[gati]karṇapramāṇam ca | yaḥ eva dvitīyaḥ
mahāśaraḥ sa eva vaṃśabhaṅgapade
ardhatryaśrikṣetrākāreṇa vyavasthitaḥ | tat ca pradarśitam | evam gaṇitam bījamātram
upadiṣṭam |

[uddeśakaḥ] ā

dvādaśahastocchritasya prākāryasya upari śyenaḥ vyavasthitaḥ | tena prākāramūlāt
caturviṃśatihastaniṣkrāntaḥ mūṣikaḥ [drṣṭaḥ, tena] mūṣikena ca śyenaḥ | tatra mūṣikaḥ
tadbhayāt prākārāvasthitam ātmīyālayam drutataram prasthitaḥ antare śyenaena
karṇagatinā vyāpāditaḥ | tatra icchāmaḥ jñātum [ki]yat antaram ākhunā prāptam, kiyat
vā śyenaena āyātam iti || 2 ||

nyāsaḥ ā

parilekhaḥ 46

karaṇam ā śyencchrāyavargaḥ 144, etat anena mūṣikapracārabhūmipramāṇena 24

vibhajya labdham 6, anena antareṇa mūṣikapracārabhūmiḥ yuktā 30, apacitā 18 |
etayoḥ ardhm śyenagatiḥ mūṣikāvāsāntarālam ca yathākrameṇa 15, 9.

uddeśakaḥ ā

aṣṭādaśakocchrāye śyenaḥ stambhe sthitaḥ hi ākhuḥ |
āvāsāt niṣkrāntaḥ tu ekāśītyā bhayāt śrayenāt ||
gacchan ālayadr̥ṣṭiḥ krūreṇa nipātitaḥ tataḥ mārge |
kiyatā prāpnoti bilam śyenagatiḥ vā tadā vācyam || 3 ||

nyāsaḥ ā

parilekhaḥ 47

labdham ākhoḥ āgatabhūmiḥ

8

1

2 ,

śyenagatiḥ

42

1

2 .

anena eva prakāreṇa vaṃśabhaṅgoddeśakaḥ ā

aṣṭādaśakocchrāyaḥ vaṃśaḥ vātena pātitaḥ mūlāt |

ṣaḍgatvā asau patitaḥ tribhujam kṛtvā kva bhagnaḥ syāt || 4 ||

nyāsaḥ ā

vaṃśaḥ 15, mūlāt yaḥ apasāraḥ tatpramāṇam ardhajyā 6, tasya vargaḥ 36,
vaṃśapramāṇena anena 18 bhaktaḥ labdham 2, pūrvavat "antarayuktam hīnam
dalitam" [gaṇitaí 24] iti vaṃśaśakale 10, 8.

parilekhaḥ 48

uddeśakaḥ ā

ṣoḍaśahastaḥ vaṃśaḥ pavanena nipātitaḥ svamūlāt tat |
aṣṭau gatvā patitaḥ kasmin bhagnaḥ marutvataḥ vācyāḥ || 5 ||

nyāsaḥ ā

parilekhaḥ 49

labdhe vaṃśaśakale 10, 6.

kamaloddeśakeṣu dṛśyakamalapramāṇam ekaḥ śaraḥ | kamalanimajjanabhūmiḥ
ardhajyā | atra pūrvavat ardhajyāvarge śaraḥṛte mahāśaraḥ labhyate tatra
dṛśyakamalasamkramaṇena jalapramāṇam kamalapramāṇam ca |

uddeśakaḥ ā

kamalam jalāt pradṛśyam vikasitam aṣṭāṅgulam nivātena |
nītam majjati haste śīghram kamalāmbhasī vācye || 6 ||

nyāsaḥ ā

parilekhaḥ 50

dṛśyakamalasya [pramāṇam] 8, nimajjanabhūmiḥ 24 |

karaṇam ā ardhajyāyāḥ caturviṃśateḥ vargaḥ 576, tat dṛśyakamalena aṣṭābhiḥ
bhāgalabdham 72 | etat dṛśyakamalayuktam 80, vihīnam ca 64 | ete dalite
kamalapramāṇam jalapramāṇam ca 40, 32 |

uddeśakaḥ ā

aṅgulaṣaṭkam kamalam majjati hastadvayam gaṭam mūlāt |
icchāmi tatra boddhum paṅkajam ambhaḥpramāṇam ca || 7 ||

nyāsaḥ ā

parilekhaḥ 51

dṛśyam 6, nimajjanabhūmiḥ 48 | labdham pūrvavat paṅkajapramāṇam 195, ambhaḥ
pramāṇam 189.

matsyabakoddeśakeṣu api evam eva āyatacaturaśrakṣetrasya ekaḥ bāhuḥ ardhajyā,
bāhudvayam mahāśaraḥ, śeṣam mūṣikoddeśakavat karma |

uddeśakaḥ ā

ṣaḍdvādaśikā vāpī tasyām pūrvottare sthitaḥ matsyaḥ |
vāyavye koṇe syāt bakaḥ sthitaḥ tadbhayāt tūrṇam ||
bhitvā vāpīm matsyaḥ karṇena gataḥ diśam tataḥ yāmyām |
pārśvena āgatya hataḥ bakena vācyam tayoḥ yātam || 8 ||

nyāsaḥ ā

parilekhaḥ 52

bakamatsyakaraṇam ā vāpīpārśvam ardhajyā iti tasya vargaḥ 36, pārśvadvayam
mahāśaraḥ iti jātam 18 | anena bhāgalabdham 2 | etena aṣṭādaśabhiḥ saṃkramaṇena
labdham matsyabakagatipramāṇam vāpīpārśvaśeṣaḥ ca 10, 8 | pārśvaśeṣe
pārśvapatite śeṣaḥ dakṣiṇāparakoṇaprāptiḥ matsyasya |
uddeśakaḥ ā

dvādaśadaśikā vāpī hi āgneyasthaḥ bakaḥ atha matsyaḥ api |
aiśānyām aparāśāgataḥ hataḥ asau kiyat vācyam || 9 ||

nyāsaḥ ā

parilekhaḥ 53

pūrvavat labdham dakṣiṇāparakoṇāt bakena gatam

3

3

11 |

paścimabāhoḥ anupraviṣṭamatsyagatiḥ

8

8

11 |

vilomabījakaraṇena etat sarvam anuṣṭhitam |

pratyayakaraṇam ca sarveṣu eva kṣetreṣu "yaḥ ca eva bhujāvargaḥ koṭīvargaḥ ca
karṇavargaḥ saḥ" [gaṇitaí, 17] iti anena eva iti || 17 ||

[vṛttāvagāhaśarajñānam]

vṛttāvagāhaśarānayanāya āha ā

grāsone dve vṛtte grāsagūṇe bhājayet pṛthaktvena |

grāsonayogalabdḥau sampātaśarau parasparataḥ || 18 ||

grāsena ūne grāsone | ke ? dve vṛtte, grāhyagrāhakamaṇḍaladvayam | grāsagūṇe,

grāsaḥ guṇaḥ yayoh te grāsagūṇe | bhājayet pṛthaktvena, ekaikam | kena ?

grāsonayogalabdḥau | grāsonayoh yogaḥ grāsonayogaḥ, tayoh eva vṛttayoh

grāsavivarjitayoh samāsaḥ ; tena grāsonayogena labdhau grāsonayogalabdḥau |

sampāte śarau sampātaśarau, avagrāhaśarau iti yāvat | parasparataḥ, anyonyataḥ |

yasmāt mahāviṣkambhasya alpaḥ śaraḥ mahatvāt maṇḍalasya, alpavyāsasya

mahān śaraḥ | yasmāt alpasya maṇḍalasya alpaḥ api avayavaḥ ativakraḥ upalabhyate,

na tathā mahataḥ | tasmāt tau sampātaśarau parasparataḥ bhavataḥ |

uddeśakaḥ ā

aśītiviṣkambhatamomayena dvātrimśat indoḥ sthagitā yadā aṣṭau |
jñātum tat icchāmi śarau kiyantau rāhoḥ atha indoḥ paripūrṇamūlaiḥ || 1 ||

nyāsaḥ ā

parilekhaḥ 54

karaṇam ā grāsone dve vṛtte 72, 24 | grāsaguṇe 576, 192 | grāsonayogaḥ 96 | anena
labdhau śarau candramasaḥ 6, rāhoḥ 2, parasparataḥ iti || 18 ||

[śreḍhīgaṇitam]

atha idānīm śreḍhīgaṇitānayanāya āha ā

iṣṭam vyekam dalitam sapūrvam uttaraguṇam samukham madhyam |
iṣṭaguṇitam iṣṭadhanam tu athavā ādyantam padārdhahatam || 19 ||

iṣṭam, īpsitam | vigatam ekena vyekam | dalitam, ardhitam | sapūrvam, iṣṭāt padāt yāni
prāgavasthitāni [padāni] tāni pūrvaśabdena ucyante, saha pūrveṇa vartate iti
sapūrvam | uttaraḥ guṇaḥ yasya taduttaraguṇam | samukham, mukhamādiḥ, saha
mukhena vartate iti samukham | madhyadhanam bhavati | iṣṭaguṇitam, iṣṭena guṇitam
iṣṭaguṇitam | iṣṭadhanam, iṣṭasya gacchasya dhanam bhavati |

atra bahūni sūtrāṇi muktakavyavasthitāni, teṣām yathāsamyogam sambandhaḥ | "iṣṭam

vyekam dalitam uttaraguṇam samukham" iti madhyadhanānayanārtham sūtram |
"madhyam iṣṭaguṇitam iṣṭadhanam" iti gacchadhanānayanārtham | "iṣṭam vyekam
sapūrvam uttaraguṇam samukham" iti antyopāntyādidhanānayanārtham | "iṣṭam
vyekam dalitam sapūrvam uttaraguṇam samukham iṣṭaguṇitam iṣṭadhanam" iti
avāntarayatheṣṭapadasaṅkhyānayanārtham | evam
etāni pādonayā āryayā pratibaddhāni | tāni yathākrameṇa uddeśakeṣu eva
pratipādayiṣyāmaḥ |

uddeśakaḥ ā

ādiḥ dvitayam dr̥ṣṭam śreḍhyāḥ pravadanti ca uttaram trīṇi |
gacchaḥ pañca niruktaḥ madhyāśeṣe dhane brūhi || 1 ||

nyāsaḥ ā ādiḥ 2, uttaram 3, gacchaḥ 5 |

karaṇam ā iṣṭam gacchaḥ 5, vyekam 4, dalitam 2, uttaraguṇam 6, samukham 8, etat
madhyadhanam | etat eva iṣṭagacchena guṇitam sarvadhanam jātam 40 |

uddeśakaḥ ā

aṣṭāvādiḥ yasyāḥ pañca pravadanti ca uttaram śreḍhyāḥ |
gacchaḥ aṣṭādaśa dr̥ṣṭaḥ madhyāśeṣe dhane vācye || 2 ||

nyāsaḥ ā ādiḥ 8, uttaram 5, gacchaḥ 18 |

pūrvavat labdham madhyadhanam

1

2,

sarvadhanam 909 |

antyopāntyādhanānayanane uddeśakaḥ ā

ekādaśottarāyāḥ saptādeḥ pañcaviṃśatiḥ gacchaḥ |

tatra antyopāntyadhane vada śīghram viṃśateḥ ca kiyat || 3 ||

nyāsaḥ ā ādiḥ 7, uttaram 11, gacchaḥ 25 |

karaṇam ā iṣṭam pañcaviṃśatiḥ 25, pūraṇam padam ekam iti ekam rūpam 1, etat eva
vyekam śūnyam 0, etat eva sapūrvam iti śūnyena kṣiptā caturviṃśatiḥ 24, uttaraguṇam
264, samukham 271, etat antyadhanam | upāntyadhanānayanane atra pūrvāṇi padāni
trayoviṃśatiḥ 23 | etaiḥ pūrvakaraṇena upāntyadhanam labdham 260 | viṃśateḥ tu
pūrvapadāni ekonaviṃśatiḥ | etaiḥ pūrvavat viṃśatitamasya padasya dhanam 216 |

avāntare yatheṣṭapadasaṅkhyādhanānayanane uddeśakaḥ ā

dvyāditryuttarasaṅkhyam dine dine kārtike kramāt māse |

pradadāti mahīpālaḥ pañcadaśāhe gate viprah ||

brahmiṣṭhaḥ samprāptaḥ tasmai dattā daśāhadhanasaṅkhyā |

pañcadinotthā anyasmai kathaya dhanam kim tayoḥ tatra || 4 ||

nyāsaḥ ā ādiḥ 2, uttaram 3, gacchaḥ 30| atra pañcadaśāhe gate brahmiṣṭhaḥ āgataḥ
tasmai ṣoḍaśāhāt prabhṛti yat upacitam daśāhadhanam tat dattam iti daśa 10 iṣṭam,
vyekam iti jātam 9, dalitam iti

4

1

2,

etat sapūrvam iti

19

1

2

uttaraguṇitam iti

58

1

2,

samukham iti

60

1

2,

iṣṭaguṇitam iṣṭadhanam iti daśaguṇitam jātam 605 | dvitīyasya api 415 |

uddeśakaḥ ā

pañcadaśādiḥ yasmin uttaram aṣṭādaśa ucyate gacchaḥ |

triṃśat madhyadaśānām dhanasaṅkhyām gaṇyatām śīghram || 5 ||

nyāsaḥ ā

[ādiḥ] 15, uttaram 18, gacchaḥ 30, daśasu vyatirikteṣu ca śeṣeṣu madhyasthitāni

padāni 10 | labdham pūrvakaraṇena 2760 |

sarvadhanāyane upāyāntaram punar api āryāpādena āha ā

tu athavā ādyantam padārdhahatam |

athavā ayam aparahaḥ prakāraḥ | ādiḥ ca antaḥ ca ādyantam | ādiśabdena ādidhanam
parigr̥hyate, antaśabdena antyadhanam | tat ādyantam | padam gacchaḥ, tasya ardham
padārdham, padārdhena hatam padārdhahatam | tat ādyantam padārdhaguṇitam
iṣṭadhanam iti anuvartanāt iṣṭadhanam bhavati |

uddeśakaḥ ā

pañcabhiḥ ādyaḥ śaṅkhaḥ pañconāśatena yaḥ bhavet antyam |
ekādaśaśaṅkhānām yat tat mūlyam tvam ācakṣva || 6 ||

nyāsaḥ ā

ādiśaṅkhamūlyam 5, antyasya 95, śaṅkhāḥ 11 |

karaṇam ā ādyantadhane 100, padārdham

5

1

2

anena guṇitam sarvaśaṅkhamūlyam 550 |

uddeśakaḥ ā

ādidhanam ekam uktam hi antyadhanam procyate śatam sadbhiḥ |

padam api tāvāt proktam sarvadhanam tat kiyat dr̥ṣṭam || 7 ||

nyāsaḥ ā

ādīdhanam 1, antyadhanam 100, gacchaḥ api etat eva 100 | sarvadhanam pūrvavat
5050 || 19 ||

[gacchajñānam]

gacchānayanārtham āha ā

gacchaḥ aṣṭottaraḡṇitāt dviḡṇādīyuttaravīśeṣavargayutāt |
mūlam dviḡṇādīyūnam svottarabhajitam sarūpārdham || 20 ||

gacchaḥ iti anena [pa]dadhanam parigr̥hyate | aṣṭottaraḡṇitāt aṣṭābhiḥ uttareṇa ca
ḡṇitam aṣṭottaraḡṇitam | tasmāt aṣṭottaraḡṇitāt | dviḡṇādīyuttaravīśeṣavargayutāt,
dviḡṇaḥ ca asau ādīḥ ca dviḡṇādīḥ, dviḡṇādeḥ uttarasya ca vīśeṣaḥ
dviḡṇādīyuttaravīśeṣaḥ, dviḡṇādīyuttaravīśeṣasya varḡaḥ
dviḡṇādīyuttaravīśeṣavargāḥ, dviḡṇādīyuttaravīśeṣavargeṇa yutam
dviḡṇādīyuttaravīśeṣavargayutam, tasmāt dviḡṇādīyuttaravīśeṣavargayutāt
gacchadhanāt

[sarvadhanāt] aṣṭottaraḡṇitāt mūlam, dviḡṇādīyūnam dviḡṇaḥ ca asau ādīḥ ca
dviḡṇādīḥ, tena dviḡṇādinā ūnam dviḡṇādīyūnam, svottareṇa bhajitam
svottarabhajitam, saha rūpeṇa vartate iti sarūpam, ardhham dalitam, gacchaḥ bhavati |

uddeśakaḥ ā

ādiḥ pañca proktaḥ saptākhyam ca uttaram bhavet śreḍhyā |
pañconāśatam dravyam gacchaḥ vācyāḥ kiyān tasya || 1 ||

nyāsaḥ ā

ādiḥ 5, uttaram 7, sarvadhanam 95 |

karaṇam ā gacchadhanāt aṣṭottaraguṇitāt iti gacchadhanam aṣṭābhiḥ uttareṇa ca
guṇitam jātam 5320 | dviguṇaḥ ādiḥ 10, etat uttaraviśeṣitam 3, etasya vargaḥ 9, anena
yuktam jātam 5329, etasmāt mūlam 73, dviguṇādyūnam 63, svottareṇa anena 7
bhajitam 9, sarūpam 10, ardham gacchaḥ 5 |

uddeśakaḥ ā

navakāṣṭau vṛddhimukhe yatra yat kīrtiyate dhanam kramaśaḥ |
rāmāṣṭasaram drṣṭam padapramāṇam tvayā vācyam || 2 ||

nyāsaḥ ā

ādiḥ 8, uttaram 9, gacchadhanam 583 | pūrvavat labdham padapramāṇam 11 || 20 ||

[citighanañānam]

saṅkalanāsaṅkalanānayanāya āha ā
ekottarādyupaciteḥ gacchādyekottaratrisamvargaḥ |
ṣaḍbhaktaḥ sa citighanaḥ saikapadaghanāḥ vimūlaḥ vā || 20 ||

uttaram ca ādiḥ ca uttarādī | ekam uttarādī yasyāḥ saikottarādīḥ | ekottarādīḥ ca asau
upacitiḥ ca ekottarādyupacitiḥ | upacitiḥ śreḍhī ekottarāditvena viśeṣyate | sa eva
ekottarādyupacitiḥ saṅkalanā iti ucyate | tasyāḥ ekottarādyupaciteḥ
saṅkalanāsamjñitāyāḥ gacchāt prabhṛti ekottaratriṣamvargaḥ ekottarāṇām trayāṇām
gacchādeḥ samvargaḥ | tat yathā ā gacchaḥ, sa ekottaram, punar api ekottaram |
trayāṇām gacchādeḥ samvargaḥ | tat yathā ā gacchaḥ, sa ekottaram,
punar api ekottaram | etat uktam bhavati ā gacchaḥ, sa eva ekottaraḥ, sa eva gacchaḥ
dvyuttaraḥ, teṣām trayāṇām samvargaḥ, ṣaḍbhaktaḥ ṣaḍbhiḥ vibhājitaḥ, sa citighanaḥ
citeḥ ghanaḥ citighanaḥ saṅkalanāsaṅkalanā iti arthaḥ | atha anyāḥ karaṇopāyaḥ ā
saikapadaghanaḥ, saikam ca tatpadam ca saikapadam, saikapadasya ghanaḥ
saikapadaghanaḥ, vigataḥ mūlena vimūlaḥ ṣaḍbhaktaḥ iti anuvartate | vā saikasya
padasya ghanagaṇitam vā svamūlavirahitam ṣaḍbhiḥ bhaktam citighanaḥ
bhavati |

uddeśakaḥ ā

pañcānām aṣṭānām caturdaśānām ca yāḥ kramāt citayaḥ |
gacchaḥ tarāḥ trikoṇā [rūpavidhānam ca] me vācyam || 1 ||

nyāsaḥ ā

parilekhaḥ 55

yathākrameṇa gacchāḥ 5, 8, 14 |

karaṇam ā gacchaḥ pañca 5 | ayam ekottaraḥ 6 | punar ayam ekottaraḥ 7 | eteṣām
trayāṇām samvargaḥ 210 | ayam ṣaḍbhaktaḥ saṅkalanāsaṅkalanā bhavati 35 |

dvitīyopāyakaraṇam ā saikapadam 6, asya ghaṇaḥ 216, ayam vimūlaḥ iti ṣaḍbhiḥ eva
rahiṭaḥ 210, pūrvavat ṣaḍbhakṭaḥ saṅkalanāsaṅkalanā bhavati 35 |

śeṣayoḥ api labdham yathākrameṇa 120, 560 || 21 ||

[vargacitighanaḥ ghanacitighanaḥ ca]

vargaghanasaṅkalanānayanāya āha ā

saikasagacchapadānām kramāt trisamvargatasya ṣaṣṭhaḥ aṃśaḥ |
vargacitighanaḥ sa bhavet citavargaḥ ghanacitighanaḥ ca || 22 ||

saha ekena vartate iti saikaḥ | saha gacchena vartate iti sagacchaḥ | anantaraprakṛtaḥ
saikasagacchaḥ | padam gacchaḥ tatra saikam ca [saika] sagaccham ca padam ca
saikasagacchapadāni | teṣām saikasagacchapadānām kramāt ānupūrvyāt | trayāṇām
samvargitam trisamvargitam | keṣām trayāṇām ? prakṛtānām saikasagacchapadānam |
ṣaṣṭhaḥ aṃśaḥ | tasya trisamvargitasya ṣaṣṭhaḥ aṃśaḥ ṣaṣṭhaḥ bhāgaḥ |
vargacitighanaḥ sa bhavet | vargasya citiḥ vargacitiḥ vargaciteḥ
ghanaḥ vargacitighanaḥ | vargasāṅkalanā iti arthaḥ | citivargaḥ ghanacitighanaḥ ca |
citeḥ vargaḥ saṅkalanāvargaḥ iti yāvat | sa eva citivargaḥ ghanacitighanaḥ bhavati |

uddeśakaḥ ā

saptānām aṣṭānām saptadaśānām caturbhujāḥ citayaḥ |
ekavidhānam vācyam padaḥ tarāḥ tāḥ hi vargākhyāḥ || 1 ||

nyāsaḥ ā

parilekhaḥ 56

karaṇam ā padam 7, saikam 8, etat eva sagaccham 15 | eteṣām trayāṇām saṃvargaḥ
840, ṣaḍbhaktaḥ vargacitighanapramāṇam 140 | śeṣayoḥ api yathākrameṇa labdham
204, 1785 |

ghanacitau uddeśakaḥ ā

caturaśraghanāḥ citayaḥ pañcacaturnavastarāḥ vinirdeśyāḥ |
ekāvaghaṭitāḥ tāḥ samacaturaśreṣṭakāḥ kramaśaḥ || 2 ||

nyāsaḥ ā

parilekhaḥ 57

parilekhaḥ 58

karaṇam ā citisaṅkalanā | sā ca "athavā ādyantam padārdhahatam" [gaṇita í, 29] iti
anena ānīyate | atra ādih ekaḥ 1, antyadhanam pañca 5, ekatra ṣaṭ 6, padārdhena
pañcānām ardhena hatam saṅkalanācitiḥ pañcānām jātā 15, asya vargaḥ
ghanacitighanaḥ bhavati | sa ca 225 | śeṣayoḥ api yathākrameṇa labdham 100, 2025 ||
22 ||

[prakārāntareṇa rāśidvayasamvargajñānam]

dvayoḥ rāsyoḥ saṃvargānāyana upāyāntaram āha ā

samparkasya hi vargāt viśodhayet eva vargasamparkam |
yat tasya bhavati ardham vidyāt guṇakārasaṃvargam || 23 ||

samparkaḥ samāsaḥ | yena dvayoḥ rāsyoḥ samparkaḥ bhavati iti dvayoḥ eva
samparkaḥ pariḡhyate | tasya samparkasya | hi pādapūraṇe | vargāt, kṛteḥ | viśodhayet
eva, apanayet eva | kim iti āha ā vargasamparkam | vargīkṛtayoḥ samparkaḥ
vargasamparkaḥ vargasamāsaḥ, tam vargasamparkam samparkasya vargāt viśodhayet
| yat tasya bhavati ardham, tasya śuddhaśeṣasya ardham dalam yat bhavati | vidyāt,
avabuddhyāt | guṇakārasaṃvargam, guṇakārayoḥ saṃvargaḥ
guṇakārasaṃvargaḥ, tam guṇakārasaṃvargam vidyāt |

uddeśakaḥ ā

pañcānām ca caturṇām sapṭanavānām ca kaḥ bhavet ghātaḥ |
aṣṭānām ca daśānām pṛthak pṛthak vācyatām śīghram || 1 ||

nyāsaḥ ā

5 7 8

4 9 10

karaṇam ā pañcānām caturṇām ca samparkaḥ 9, asya vargaḥ 81; pañcānām vargaḥ
25, caturṇām vargaḥ 16, ekatra 41, samparkavargāt imam

pañcavargacaturvargasamparkam viśodhayet | tatra śeṣaḥ 40 | asya ardham pañcānām
caturṇām ca saṃvargaḥ labdhaḥ 20 | śeṣayoḥ api yathākrameṇa 63, 80 || 23 ||

[guṇya-guṇakayoḥ ānayanam]

guṇakārayoḥ ānayanāya āha ā

dvikṛtiguṇāt saṃvargāt dvyantaravargeṇa saṃyutāt mūlam |
antarayuktam hīnam tat guṇakāradvayam dalitam || 24 ||

dvayoḥ kṛtiḥ dvikṛtiḥ, dvikṛtiḥ guṇaḥ yasya sa dvikṛtiguṇaḥ, tasmāt dvikṛtiguṇāt | kasmāt
iti āha ā saṃvargāt | dvyantaravargeṇa saṃyutāt | dvayoḥ api antaram dvyantaram,
dvyantarasya vargaḥ dvyantaravargaḥ, tena dvyantaravargeṇa saṃyutāt | dvikṛtiguṇāt
saṃvargāt dvayoḥ api antaravargeṇa miśritāt yat mūlam | tat antarayuktam antareṇa
yuktam antarayuktam | hīnam virahitam | tadguṇakāradvayam tasya saṃvargasya
guṇakāradvayam | dalitam ardhitam |

uddeśakaḥ ā

saṃvargaḥ aṣṭau dr̥ṣṭaḥ vyaktam tatra antaram bhavet dvitayam |
aṣṭādaśake munayaḥ guṇakārau tau tayoh vācyau || 1 ||

nyāsaḥ ā saṃvargaḥ 8, antaram 2 | saṃvargaḥ 18, antaram 7 |

karaṇam ā saṃvargaḥ 8, etat dvikṛtiguṇam 32; dvyantaram 2, asya vargaḥ 4, anena
saṃyuktaḥ 36 | asya mūlam 6, etat tena antareṇa yuktam 8, hīnam 4 | yathākrameṇa
dalitau parasparaguṇakārau 4, 2 |

dviṭiyoddeśake api guṇakārau labdhau 9, 2 |

atra guṇyaguṇakārayoḥ aviśeṣāt guṇakāradvayam iti ucyate || 24 ||

[mūlaphalajñānam]

mūlaphalānayanārtham āha ā

mūlaphalam saphalam kālamūlaguṇam ardhamūlakṛtiyuktam |
tanmūlam mūlārdhonam kālahṛtam svamūlaphalam || 25 ||

mūlam śatādi, phalam vṛddhiḥ, mūlasya phalam mūlaphalam | saha phalena vartate iti
saphalam, ātmīyayā vṛddhyā yuktam mūlaphalam iti yāvat | kālamūlaguṇam, kālam ca
mūlam ca kālamūle, kālamūle guṇau yasya mūlaphalasya tat kālamūlaguṇam
mūlaphalam | ardhamūlakṛtiyuktam, [ardham mūlasya ardhamūlam mūlārdham iti,
ardhamūlasya kṛtiḥ ardhamūlakṛtiḥ, mūlakṛteḥ caturthaḥ bhāgaḥ iti], [ardha]kṛtīvāt
dvayoḥ vargeṇa iti caturvibhāgaḥ, tayā
ardhamūlakṛtyā yuktam ardhamūlakṛtiyuktam | tanmūlam, tasya eva niṣpāditya
mūlam tanmūlam | mūlārdhonam, mūlasya śatādeḥ ardhenā ūnam mūlārdhonam |
kālahṛtam, kālena hṛtam kālahṛtam | svamūlaphalam, svasya mūlasya phalam
svamūlaphalam |

uddeśakaḥ ā

jānāmi śatasya phalam na ca kintu śatasya yatphalam saphalam |
māsaiḥ caturbhiḥ āptam ṣaḍ vada vṛddhim śatasya māsothhām || 1 ||

nyāsaḥ ā

100 0

1 4

0 6

māsaḥ 4, phalam 6 |

karaṇam ā mūlaphalam saphalam 6, kālamūlaguṇam 2400 | ardhāmūlakṛtiḥ 2500,
anayā yuktaṃ 4900 | etasya mūlam 70, mūlārdhonam 20, kālahṛtam [sva]mūlaphalam
jātam 5 |

pratyayakaraṇam pañcarāśikena ā yadi śatasya māsikī vṛddhiḥ pañca tadā caturbhiḥ
māsaiḥ śatavṛddheḥ [pañcadhanasya] kā vṛddhiḥ iti |

nyāsaḥ ā

1 4

100 5

5 0

labdham 1 | etatsahitā śatavṛddhiḥ ṣaḍ rūpāṇi 6 |

uddeśakaḥ ā

pañcaviṃśateḥ māsikī vṛddhiḥ na jñāyate | yā pañcaviṃśateḥ māsikī vṛddhiḥ sā tena
eva ardheṇa anyatra prayuktā, saha vṛddhyā pañcabhiḥ māsaiḥ dr̥ṣṭā rūpatrayam
pañcabhāgonam | tatra icchāmaḥ jñātum kā pañcaviṃśateḥ māsikī vṛddhiḥ, kā vā
pañcaviṃśativa[r̥]ddheḥ pañcamāsaprayuktāyā vṛddhiḥ iti || 2 ||

nyāsaḥ ā

25 0

1 5

0 2

4

5

labdham pūrvakaraṇena pañcaviṃśateḥ māsikī vṛddhiḥ 2, pañcaviṃśativṛddheḥ ca
pañcānām māsānām vṛddhiḥ

0

4

5 |

uddeśakaḥ ā

śatasya māsikī vṛddhiḥ na jñāyate | kintu śatavṛddhiḥ anyatra prayuktā pañcabhiḥ
māsaiḥ saha vṛddhyā dr̥ṣṭā rūpapañcadaśakam | tatra icchāmaḥ jñātum kā ca śatasya
māsikī vṛddhiḥ kā vā śatasya vṛddheḥ pañcamāsaprayuktāyā vṛddhiḥ iti || 3 ||

nyāsaḥ ā

100 0

1 5

0 15

māsāḥ 5, saphalam 15 |

labdham ā pūrvavat śatavṛddhiḥ 10, śatavṛddheḥ pañcamāsaprayogāt vṛddhiḥ 5 || 25 ||

[trairāśīkam]

trairāśīkapratipādanārthamadyardhāryām āha ā

trairāśīkaphalarāśīm tam atha icchārāśīnā hatam kṛtvā |

labdham pramāṇabhajitam tasmāt icchāphalam idam syāt || 26 ||

chedāḥ parasparahatāḥ bhavanti guṇakārabhāgahārāṇām |

trayaḥ rāśayaḥ samāhṛtāḥ trirāśiḥ | trirāśiḥ prayojanam asya gaṇitasya iti trairāśīkaḥ |
trairāśīke phalarāśiḥ trairāśīkaphalarāśiḥ | tam trairāśīkaphalarāśīm | athaśabdaḥ
parijñānavastuparigrahe uttaragranthapratipādanā vartate | atra evaṃprakāraḥ arthaḥ
kaḥ atra pratipāditāḥ ? ucyate ā paribhāṣā | sā ca lokavyavahārāt prativiśayam bhinnā
iti lokaprayogāt eva pradarśitā | anyathā hi prativiśayam bhinnāḥ paribhāṣāḥ viśayāḥ ca
saṃkhyātītāḥ | tena upadeṣṭum

aśeṣataḥ sā na śakyate | ataḥ athaśabdena lokaprasiddhām paribhāṣām pratipādayati |
icchārāśīnā hatam kṛtvā, yaḥ asau phalarāśiḥ sa icchārāśīnā hataḥ kriyate, tam
icchārāśīnā hatam guṇitam kṛtvā | labdham, labdham āptam | katham iti āha ā
pramāṇabhajitam, pramāṇarāśīnā bhajitam pramāṇabhajitam | tasmāt evaṃvidhāt
rāśeḥ pramāṇabhajitāt | icchāphalam, icchāyāḥ phalam, icchāphalam, icchārāśīphalam
iti arthaḥ | idam iti labdham pratyakṣīkṛtya uktam |

atra trairāśīkam eva kevalam abhihitam ācāryāryabhaṭena, pañcarāśīkādayaḥ
anupātaviśeṣāḥ katham avagantavyāḥ ? ucyate ā anupātabījāmātram eva ācāryeṇa
upadiṣṭam ; tena anupātabījēna sarvam eva pañcarāśīyādīkam siddhyati | kutaḥ ?
pañcarāśīkādinām trairāśīkasaṅghātavāt | kasmāt pañcarāśīyādayaḥ
trairāśīkasamhatāḥ ? pañcarāśīke trairāśīkadvayam samhatam, saptarāśīke
trairāśīkatrayam, navarāśīke trairāśīkacatuṣṭayam iti ādi uddeśakeṣu

eva upadekṣyāmaḥ |

yadā punaḥ rāśayaḥ sacchedāḥ syuḥ tadā katham kartavyam iti āha ā

chedāḥ parasparahatāḥ bhavanti guṇakārabhāgahārāṇām |

chedāḥ parasparasya hatāḥ anyonyahatāḥ | keṣām iti ataḥ āha ā

guṇakārabhāgahārāṇām | guṇyaguṇakārayoḥ parasparāpekṣayā guṇakāratvam ,
yasmāt guṇyaḥ guṇakāreṇa guṇyate, guṇakāraḥ api guṇyena, na kaścit phalaviśeṣaḥ |
tena uktam guṇyaguṇakārau guṇakāraśabdena | guṇakārau ca bhāgahāraḥ ca
guṇakārabhāgahārāḥ | ataḥ teṣām guṇakārabhāgahārāṇām chekāḥ parasparahatāḥ ye
guṇakāracchedāḥ bhāgahārahataḥ te bhāgahārāḥ bhavanti, bhāgahāracchedāḥ
ca guṇakārahataḥ guṇakārāḥ bhavanti iti etat anuktam api avagamyate eva, yasmāt
taddharmāya chedāḥ parasparam nīyante | bhāgahārāṇām saṃvargaḥ bhāgahāraḥ |
guṇakārāṇām saṃvargaḥ guṇakāraḥ iti arthāt avagamyate |

uddeśakaḥ ā

candanapālāni pañca krītāni mayā hi rūpakaiḥ navabhiḥ |

candanam ekena tadā labhyam [kim] rūpakeṇa eva || 1 ||

tatra yathākrameṇa sthāpanā | uktam ca ā

ādyantayoḥ tu sadṛśau vijñeyau sthāpanāsu rāśīnām |

asadṛśarāśīḥ madhye traīrāśīkasādhanāya buddheḥ ||

iti |

nyāsaḥ ā 9 5 1

karaṇam ā rūpakaiḥ navabhiḥ pañcacandanapālāni iti nava pramāṇarāśiḥ, pañca
phalarāśiḥ | ekena rūpeṇa kim iti ekam icchārāśiḥ | tena ekena icchārāśinā phalarāśiḥ
guṇitaḥ 5, pramāṇarāśinā navakena vibhajyate

5

9 |

tatra phaleṣu bhāgam na prayacchati iti "catuṣkarṣam palam" iti caturbhiḥ guṇitam

20

9 |

labdham karṣadvayam karṣabhāgau ca [navānām] | karṣab 2 karṣabhāgaḥ

2

9 |

uddeśakaḥ ā

ārdrakabhāraḥ daśabhiḥ sapañcabhāgaiḥ yadā abhivikrītaḥ |
palaśatamūlyam śīghram sārdhapalasya atra me vācyam || 2 ||

nyāsaḥ ā

2000 10 100

1 1

5 2

savarṇite sthāpanā ā

2000 51 201

5 2

"chedāḥ parasparahatāḥ" iti guṇakārayoḥ chedāḥ bhāgahāram gatāḥ | 5, 2 etābhyām
chedābhyām bhāgahārah guṇitaḥ jātāḥ 20000 | [guṇakārayoḥ 201, 51 anayoḥ ghātāḥ]
10251 | pūrvavat labdham viṃśopakāḥ 10, viṃśopakabhāgāḥ ca

251

1000 |

uddeśakaḥ ā

aṣṭābhiḥ satryamaṣaiḥ mṛganābhyā labhyate palam sadalam |
kṛtavīryeṇa vigaṇyam sapañcabhāgena kim mayā labhyam || 3 ||

nyāsaḥ ā

[8 1 1

1 1 1

3 2 5]

savarṇitena ā

[25 3 6

3 2 5]

[pūrvavat karaṇena] kṛtavīryalabdham mṛganābhyā māśakāḥ 13, guñjāḥ 4,

guñjābhāgāḥ

3

25 |

uddeśakaḥ ā

nāgaḥ viṃśatihastaḥ praviśati ardhāṅgulam muhūrttena |
pratyeti ca pañcāṃśam katibhiḥ ahobhiḥ bilam prāptam || 4 ||

nyāsaḥ ā sarpaḥ 480 aṅgulātmakaḥ, praviśati ardhāṅgulam

1

2,

pratyeti [ca aṅgulapañcabhāgaḥ

1

5] |

atra pañcabhāgaviśuddham ardhāṅgulam sarpasya mauhūrttikī gatiḥ iti pañcabhāgam
ardhāt viśodhya sthāpanā ā

9

10,

muhūrtaḥ 1, sarpapramāṇāṅgulāni 480 |

labdham divasāḥ

53

1

3

miśrarāśiṣu api etat eva anupātabījam | tat yathā ā

uddeśakaḥ ā

aṣṭau dāntāḥ trayāḥ damyāḥ iti gāvaḥ prakīrtitāḥ |

ekāgrasya sahasrasya kati dāntāḥ kati itare || 5 ||

nyāsaḥ ā aṣṭau dāntāḥ 8, trayāḥ damyāḥ 3, dāntadamyānām ekottaram sahasram 1001

|

atra ayam trairāśikanyāsaḥ ā

dāntadamyāḥ 11, dāntāḥ 8, sarvasamudāyaḥ 1001 |

atra iyam vācaḥ yuktiḥ ā ekādaśabhiḥ dāntadamyaiḥ aṣṭau dāntāḥ labhyante, tat

ekāgreṇa sahasreṇa kiyantaḥ dāntāḥ iti labdhāḥ dāntāḥ 728 tathā eva damyāḥ 273 |

evam prakṣepakaraṇeṣu api uddeśakaḥ ā

samavāyakāḥ tu vaṇijaḥ pañcaikaikottarādīmūladhanāḥ |

lābhaḥ sahasrasamkhyāḥ vada kasmai tatra kim deyam || 6 ||

nyāsaḥ ā dhanāni 1, 2, 3, 4, 5 | lābhaḥ sahasram 1000 |

karaṇam ā prakṣepakadhanena anena 15, ayam lābhaḥ 1000 | yathākrameṇa ekena

dvābhyām iti ādi labdhāḥ lābhāḥ [prathamasya]

66

2

3,

dvitīyasya

133

1

3,

trīyasya 200, caturthasya

266

2

3,

pañcamasya

333

1

3 |

bhinne api uddeśakaḥ ā

ardhena trīyena prakṣepeṇa aṣṭamena ye vaṇijaḥ |

saptatiḥ ekena ūnā lābhaḥ teṣāṃ kiyān kasya || 7 ||

nyāsaḥ ā

1 1 1 | lābhaḥ 69 |

2 3 8

atra bhinnagaṇitanyāyena "chedagaṇaḥ sacchedam" iti savarṇite jātāḥ

12 8 9

24 24 24 | chedaiḥ prayoḥanam na asti iti aṃśāḥ kevalāḥ 12, 8, 3 | eteṣāṃ pūrvavat
prakṣepanyāyena ekatra [yogah] 23 | anena prakṣepeṇa asya lābhasya 69 bhāgaḥ
svāṃśaiḥ pṛthak pṛthak guṇitasya traīrāśīkavibhāgena labdhāḥ bhāgāḥ 36, 24, 9 |

[pañcarāśīkam]

pañcarāśīke uddeśakaḥ ā

śatavṛddhiḥ māse syāt pañca kiyān māsaṣaṭprayuktāyāḥ |
vṛddhim vada viṃśatyā yadi bhaṭaganitam tvayā buddham || 8 ||

nyāsaḥ ā 1001 20

1 6

5

karaṇam ā prathamatraīrāśīkam 100, 5, 20 | labdham rūpakaḥ 1 | dviṭiyatraīrāśīkam ā
yadi māsenā rūpakaḥ, ṣaḍbhiḥ kiyantaḥ iti labdham rūpakāḥ ṣaṭ |

etat eva gaṇitam yugapat kriyamāṇam pañcarāśīkam bhavati | tatra api śatasya māse iti
[śatam rūpam ca] pramāṇarāśīdvayam, pañca iti phalarāśīḥ viṃśatyā ṣaḍbhiḥ māśaiḥ
kim iti viṃśatiḥ ṣaṭ ca icchārāśīḥ | tatra pūrvavat eva icchārāśīḥ phalarāśīnā guṇitaḥ
pramāṇarāśībhyām vibhajyate, phalam pūrvavat eva | traīrāśīkam eva etat dvidhā
vyavasthitam | chedāḥ api pūrvavat guṇakārabhāgahārāṇām parasparam gacchanti |

[uddeśakaḥ] ā

[śatasya māśadvaya] prayuktasya vṛddhiḥ paynnca | pañcaviṃśateḥ

pañcamāsaprayuktāyāḥ kā vṛddhiḥ iti || 9 ||

nyāsaḥ ā 100 25 labdham 3

2 5 1

5 8

uddeśakaḥ ā

[śatasya ardhacatuṣka]māsaprayuktasya vṛddhiḥ ardhapañcakāḥ rūpakāḥ | tadā
pañcāśataḥ daśamāsaprayuktasya kā vṛddhiḥ iti || 10 ||

nyāsaḥ ā 100 50

3 10

1

2

4

1

2

labdham rūpakāḥ ṣaṭ 6, saptabhāgāḥ trayaḥ ca

3

7 |

uddeśakaḥ ā

viṃśatyāḥ sārdhāyāḥ satryamaśaḥ rūpakaḥ bhavet vṛddhiḥ |

māse sapañcabhāge pādonānām tu saptānām ||

māsaiḥ ṣaḍbhiḥ vācyam daśabhāgayutaiḥ tu kā bhavet vṛddhiḥ |

jñātvā chedavikalpam samyak bhaṭatantrasūtreṇa || 11 ||

savarṇite sthāpanā ā

41 27

2 4

6 61

5 10

4 0

3

labdham rūpakadvayam [2, viṃśopakāḥ] 4, viṃśopakabhāgāḥ ca

26

41 |

[saptarāśikam]

saptarāśike uddeśakaḥ ā

saptocchritasya kariṇaḥ triṃśat paridheḥ navāyatasya yadā |

nava kuḍuvāḥ labhyante nityam saṃśuddhaśālipṛthukānām ||

pañcocchritasya vācyam saptāyām asya dantinaḥ kim syāt |

aṣṭāviṃśatiparidheḥ vācyāḥ pṛthukāḥ tadā labhyāḥ || 12 ||

sthāpanā ā 7 5

30 28

9 7

9 0

labdham pṛthukakuḍuvāḥ 4, setike 2, setikabhāgāḥ

2

3

uddeśakaḥ ā

hastyuttamasya caturhastocchritasya ṣaḍāyatasya pañcapariṇāhasya ardhatṛīyāḥ

kuḍuvāḥ labhyante māṣānām yadā tadā tryucchritasya pañcāyatasya

ardhapañcamapariṇāhasya kim labhyam || 13 ||

nyāsaḥ ā 4 3

6 5

5 9

2

5 0

2

labdham kuḍuvaḥ 1, setikā 1, mānakau 2, ardhamānakam

1

2 |

evam navarāsyādiṣu yojyāḥ |

[vyastatraināśikam]

vyastatraināśikam api etat eva | tatra guṇakārabhāgahāraviparyāse viśeṣaḥ | tat yathā ā

[uddeśakaḥ]

pañcasauvarṇike pale dr̥ṣṭāni ṣoḍaśā palāni suvarṇasya yadā tadā catussauvarṇike
kiyanti iti || 14 ||

nyāsaḥ ā 5 16 4

atra pañcasauvarṇikena palena ṣoḍaśa palāni iti pañcabhiḥ ṣoḍaśa guṇitāḥ suvarṇāḥ
bhavanti | ete suvarṇāḥ caturbhiḥ hr̥tāḥ catussauvarṇikapalāni bhavanti | evam labdhāni
palāni 20 |

svasiddhānte ca yadi vyāsārdhamaṇḍale bhujāphalam idam labhyate tadā
tatkālotpannakarṇaviṣkambhārdhamaṇḍale kim iti tatra mahati karṇapramāṇe
alpīyasyaḥ [bhujāphalakalā] bhavanti, alpakarṇe vahvyaḥ iti vyāsārdham guṇakāraḥ [
karṇaḥ bhāgahāraḥ] |

uddeśakaḥ ā

aṣṭau piṭakāḥ dr̥ṣṭāḥ caturdaśaprasṛtikena mānena |
aṣṭaprasṛtikamāne piṭakāḥ ke syuḥ tadā vācyāḥ || 15 ||

nyāsaḥ ā 8 14 8

labdham piṭakāḥ 14 || 26-27 ||

[kalāsavarṇanam]

kalāsavarṇoddeśapradarśanārtham āryāpaścārdham āha ā

chedaguṇam sacchedam parasparam tat savarṇatvam || 27 ||

saha chedena vartate iti sacchedam | kim tat ? rāśirūpam | atra sacchedam rāśirūpam
vinyasya etat ucyate ā "chedaguṇam sacchedam parasparam" iti | chedaḥ guṇaḥ yasya
rāśirūpasya tadrāśirūpam chedaguṇam | parasparam anyonyam, ekena rāśicchedena
itarah rāśiḥ sacchedaḥ guṇyate, itareṇa api itarah [rāśiḥ tadvat vinyastaḥ] | tat
savarṇatvam, tat eva nirvartitam karma savarṇatvam | savarṇakayoḥ yathā iṣṭam
saṃyogaḥ viśleṣaḥ ca |

uddeśakaḥ ā

ardham ṣaṣṭham dvādaśabhāgam caturthabhāgasamṃyuktam |
ekatra kiyat dravyam nirdeśyam tatkrameṇa eva || 1 ||

nyāsaḥ ā 1 1 1 1

2 6 12 4

karaṇam ā dvayoḥ

1 1

2 6,

etau parasparacchedena guṇitau sacchedau rāśi

6 2

12 12 |

ekatra

2

3 |

punar tṛtīyarāsinā sthāpanā

2 1

3 12,

prakṣiptena

[3]

[4] |

evam caturtharāsinā

3 1

4 4, labdham rūpakam 1 |

uddeśakaḥ ā

ardham ṣaṣṭham bhāgam tṛtīyakena sahitam kiyat dravyam |

ardham ṣaṣṭhaḥ dvādaśakaḥ viṃśaḥ sapañcabhāgaḥ ca || 2 ||

nyāsaḥ ā 1 1 1

2 6 3

dviṭīyoddeśake sthāpanā ā

1 1 1 1 1

2 6 12 20 5

labdham pūrvakaraṇena ubhayatraikarāśīkam rūpam 1, 1 |

uddeśakaḥ ā

ardham ṣaḍbhāgonam pañcāṃśam ca api saptabhāgonam |
tryaṃśam pādonam vā gaṇayate [gaṇakāḥ] kiyat dravyam || 3 ||

nyāsaḥ ā 1 1í 1 1í 11í
2 6 5 734

labdham yathākrameṇa ā1 2 1
3 3512

[viparītakarma]

pratilomakaraṇapradarśanārtham āha ā

guṇakārāḥ bhāgaharāḥ bhāgaharāḥ te bhavanti guṇakārāḥ |
yaḥ kṣepaḥ saḥ apacayaḥ apacayaḥ kṣepaḥ ca viparīte || 28 ||

guṇakārāḥ bhāgaharāḥ, ye guṇakārāḥ āsan te pratilomakramaṇi [bhāgahārāḥ bhavanti]
| bhāgaharāḥ te bhavanti guṇakārāḥ, [ye] bhāgahārāḥ te guṇakārāḥ bhavanti | yaḥ
kṣepaḥ saḥ apacayaḥ, pūrvam yaḥ kṣepaḥ āsīt sa vilomakarmaṇi apacayaḥ bhavati |
apacayaḥ kṣepaḥ ca, yaḥ apacayaḥ sa kṣepaḥ viparītakarmaṇi bhavati |

atra ye uddeśakāḥ te prāyaśaḥ pradarśitāḥ | svatantra api ca chāyānītaśaṅkoḥ
ghaṭikānayanam prati vyāsārdham bhāgahārāḥ āsīt iti guṇakārāḥ, lambakaḥ guṇakārāḥ
āsīt iti bhāgahārāḥ | tatra uttaragole [kṣitijyā kṣipe] dityapanīyate, dakṣiṇagole apanayet
iti prakṣipyate | tataḥ viparītatvāt eva vyāsārdham guṇakārāḥ, svāhorātrārdham
bhāgahārāḥ | labdhajyā viparītakarmaṇā eva kāṣṭhīkriyate | tasmin kāṣṭhe uttaragole
caraprāṇāḥ prakṣpyante viśodhitatvāt,

dakṣiṇagole viśodhyante kṣiptatvāt iti ādi | evam sarvatra svatantre viparītakarma
niyojyam |

anyatra api uddeśakaḥ ā

dviguṇam rūpasametam pañcavibhaktam tritāḍitam bhūyaḥ |
dvyūnam saptavibhaktam labdham rūpam kiyat bhavet pūrvam || 1 ||

nyāsaḥ ā 2 gu, 1 kṣe, 5 hā, 3 gu, 2 ū, 7 hā, saptabhiḥ bhāgalabdham rūpakam 1 |

karaṇam etat ā labdham rūpam 1, saptabhiḥ guṇitam jātam 7, dvābhyām yuktam 9,
tribhiḥ bhaktam 3, pañcaguṇam 15, ekonam 14, dalitam labdham 7 |

uddeśakaḥ ā

triguṇam rūpavihīnam dalitam dvābhyām samanvitam bhūyaḥ |
bhaktam tribhiḥ tu tasmāt dvikahīnam kim bhavet rūpam || 2 ||

nyāsaḥ ā 3 gu, 1 ū, 2 hā, 2 kṣe, 3 hā, 2 ū, labdham rūpam 1 |pūrvavat āgatam 5 || 25 ||

[anekavarṇasamīkaraṇaviśeṣaḥ]

rāśyūnakramasaṅkalitānayanam āha ā

rāśyūnam rāśyūnam gacchadhanam piṇḍitam pṛthaktvena |
vyekena padena hṛtam sarvadhanam tat bhavati evam || 29 ||

rāśinā ūnam rāśyunam | [rāśyūnam] rāśyūnam iti anayā vīpsayā anantyam
gaṇitakarma pradarśayati | gacchaḥ padam paryavasānam iti paryāyāḥ | gacchasya
dhanam gacchadhanam, padadhanam | rāśyūnanyāyena yāvat padam tat
gacchadhanam ucyate | piṇḍitam pṛthaktvena | piṇḍitam ekatra kṛtam | pṛthaktvena iti
rāśyūnakramalabdhapadānām avinaṣṭasthāpanām pradarśayati |
avinaṣṭasthāpanāprajoyanam ca sarvadhanam ca sarvadhanāt
avinaṣṭasthāpitapadadhane
apanīte pṛthak pṛthak padānām dhanāni bhavanti | yadi kevalam
sarvadhanaparijñānamātram eva syāt tadā pṛ(tha)ktvena iti anarthakam syāt, yasmāt
apṛthakkarāṇe api sarvadhanasya siddhatvāt | vigatam ekam vyekam, tena vyekena,
tena padena ca | vyekaiḥ padaiḥ iti bahuvacanena atra bhavitavyam | na eṣaḥ doṣaḥ |
padajātim aṅgīkṛtya "jātyākhyāyām ekasmin bahuvacanam anyatarasyāt" [aṣṭādhyāyī,
1.2.58] iti ekavacanam kṛtam | tena yaḥ arthaḥ vyekaiḥ padaiḥ iti
sa eva arthaḥ vyekena padena iti avagamyate | hṛtam bhaktam | sarvadhanam,
sarveṣām padānām yathākrameṇa dhanam ekatra tat sarvadhanam ucyate | tat bhavati
evam, yat evam kṛte karmaṇi tat sarvadhanam bhavati |

uddeśakaḥ ā

mattāmmattakareṇuvikkaracitā yūthā gajānām vane
ekāpāyacayena [ye atra] gaṇitāḥ triṃśat rasānām kṛtiḥ |
saptānām api sā eva ca ekasahitā nāgāgram āgaṇyatām
yūthānām ca pṛthak pṛthaktvagaṇitam nirvarṇyatām tattvataḥ || 1 ||

nyāsaḥ ā 30, 36, 49, 50 |

karaṇam ā etāni dhanāni avinaṣṭāni ekatra 165 | vyekam padam 3 | anena labdham

sarvadhanam 55 | etasmāt prathamapadam apāsyā mattāgram 25, dvitīyam apāsyā
amattasaṅkhyā 19, tṛtīyam apāsyā kareṇusaṅkhyā 6, caturtham apāsyā vikkasaṅkhyā 5
|

uddeśakaḥ ā

nāgāḥ vājakharoṣṭra vesaragavām ekaikahīnāḥ kramāt
aṣṭāvīmśatiḥ ekaḥīnagaṇitā rūponam antyam punar |
teṣām sarvadhanam pṛthak ca niyamāt vācyam tvayā niścitam
kṛtsnam ca āryabhaṭapraṇītagaṇitam dṛṣṭam guroḥ antike || 2 ||

nyāsaḥ ā 28, 27, 26, 25, 24, 23, 21 | labdham sarvadhanam 29 | pṛthak pṛthak 1, 2, 3, 4,
5, 6, 8 || 29 ||

[ekavarṇasamīkaraṇam]

samakaraṇoddeśakapradarśanārtham āha ā

gulikāntareṇa vibhajet dvayoḥ puruṣayoḥ tu rūpakaviśeṣam |
labdham gulikāmūlyam yadi arthakṛtam bhavati tulyam || 30 ||

gulikāśabdena avijñātamūlyavastvabhīdhīyate | gulikānām antaram gulikāntaram tena
gulikāntareṇa, avijñātamūlyavastūnām antareṇa iti arthaḥ | vibhajet dvayoḥ puruṣayoḥ
tu rūpakaviśeṣam | dvayoḥ iti anena dvayoḥ eva idam karma na tryādīnām iti etat
pradarśayati | rūpakaviśeṣam iti anena ca nirjñātasāṅkhyam dhanam pariḡṛhyate |
rūpakam dīnārādīkam | labdham gulikāmūlyam, yat atra labdham tat gulikāmūlyam |
yadi arthakṛtam bhavati tulyam, yena

arthena kṛtam tat tulyam sadṛśam bhavati |

uddeśakaḥ ā

aśvāḥ lakṣaṇayuktāḥ vaṇijaḥ nityam balānvitāḥ sapta |
prathamasya mayā dṛṣṭam dravyaśatam ca eva hastagatam ||
nava turagāḥ nirdṛṣṭāḥ dravyāśītiḥ dhanam dvitīyasya |
vācyam ghoṭakamūlyam tulyārdheṇa eva tulyadhanau || 1 ||

nyāsaḥ ā 7 100

9 80

karaṇam ā gulikāntaram 2, rūpakaviśeṣam 20, etat gulikāntareṇa vibhaktam ghoṭakasya
ekasya mūlyadravyam daśa 10 | anena ardheṇa prathamasya ghoṭakānām mūlyam 70,
dvitīyasya 90, [sva]svahastagatena anena [ca] gatau tulyadhanau 170 ubhayoḥ api |

uddeśakaḥ ā

kuṅkumapalāni ca aṣṭau ekasya dhanasya rūpakā navatiḥ |
dvādaśa palāni vidyāt anyasya dhanasya rūpakāḥ triṁśat ||
tulyārdheṇa ca kṛtam kuṅkumam dvābhyām kiyat palārdheṇa |
icchāmi tatra boddhum mūlyam vittam ca tulyam eva tayoḥ || 2 ||

nyāsaḥ ā 8 90

12 30

labdham pūrvavat kuṅkumapalasya ekasya mūlyam 15 | tulyadhanam 210 ubhayoḥ |

ete eva gulikāḥ ajñātapramāṇāḥ yāvat tāvantaḥ ucyante, rūpakāḥ eva tatra api | yāvat
tāvat samjñayā api uddeśakāḥ abhidhīyante | tat yathā ā

[uddeśakaḥ]

sapta yāvat tāvat sapta ca rūpakāḥ samāḥ dvayoḥ yāvat tāvatoḥ dvādaśānām [ca]
rūpakāṇām, kiyantaḥ yāvat tāvat pramāṇāḥ || 3 ||

nyāsaḥ ā 7 7

2 12

karaṇam ā pūrvavat gulikānām yāvat tāvatām viśeṣaḥ upari śuddhe 5 | adhaḥ śuddhe
rūpakaviśeṣaḥ 5 | yāvat tāvat viśeṣeṇa rūpakaviśeṣasya bhāgalabdham yāvat tāvat
pramāṇam 1 | etena yāvat tāvat pramāṇena yāvat tāvantaḥ gulikāḥ jātāḥ krameṇa 7, 2;
svān svān rūpān prakṣipyā samāḥ | prathamasya 14, dvitīyasya tat eva 14 |

uddeśakaḥ ā

nava gulikāḥ sapta [ca] rūpakāḥ samāḥ trayāṇām [tu] gulikānām |
trayodaśānām ca rūpakāṇām tadā kim gulikāmūlyam || 4 ||

nyāsaḥ ā 9 7

3 13

labdham gulikāmūlyam 1 |

yadā punar rūpakāḥ śodhyāḥ bhavanti tadā ā

uddeśakaḥ ā

nava gulikāḥ rūpakāḥ caturviṃśatiḥ ṛṇam dve gulike [ca] |
aṣṭādaśa rūpakāḥ samāḥ [kathaya] kim gulikāmūlyam || 5 ||

nyāsaḥ ā 9 24

2 18

atra gulikāḥ upari śuddhyante, rūpakāḥ adhaḥ śodhyāḥ na śuddhyanti | tataḥ ā

sojham bhūṇāradhaṇam aṇam aṇado nayamado nayamado sojham |
viparīte sādhaṇae sojham vā kim va guhoḷam ||

atra gulikāḥ upari śodhyāḥ gulikābhyaḥ śuddhyante; adhaḥśodhyāḥ rūpakāḥ na,
śodhyatvāt ca viparītam prakṣipyante | prakṣipte sati jātāḥ 42 | gulikāviśeṣaiḥ saptabhiḥ
bhāgalabdham ṣaṭ 6 | [prathamasya yāvat tā]vat pramāṇam 9, ṣaḍguṇitam 54,
ṛṇagatarūpakāḥ caturviṃśatiḥ śuddhāḥ śeṣam triṃśat 30 | [dvitīyasya] dve gulike
ṣaḍbhiḥ guṇite 12, aṣṭādaśayukte 30 | evam samadhanāḥ |

samakaraṇeṣu [evam] sarvatra yojyam || 30 ||

[yogakālajñanam]

yogakālānayanārtham āha ā

bhakte vilomavivare gatiyogena anulomavivare dvau |

gatyantareṇa labdhau dviyogakālau atītaiṣyau || 31 ||

bhakte, hr̥te | vilomavivare, ekaḥ gacchati aparāḥ tatpratimukham pratyāgacchati tat vilomavivaram, anulomagateḥ vilomagateḥ ca antaram iti | atra anulomaśabdaḥ luptanirdiṣṭaḥ pratyetavyaḥ | athavā vilomavivaram evaṃprakāram eva parigr̥hyate, yadi dvau api vilomagatī syātām, tadā anulomavivaram eva syāt | tasmin vilomavivare bhakte | kena iti āha ā gatiyogena | gatyoh̥ yogaḥ gatiyogaḥ, tena gatiyogena | anulomavivare, anulomagatyoh̥ vivaram anulomavivaram | dvau iti dvayoh̥ pratilomānulomayogakālayoh̥ param aṃśam karoti | gatyantareṇa, gatyoh̥ antaram [gatyantaram] gativīśeṣaḥ, tena gatyantareṇa | labdhau dviyogakālau, dvayoh̥ yogaḥ dviyogaḥ, dviyogasya kālau dviyogakālau | atītaiṣyau atītaḥ ca eṣyaḥ ca atītaiṣyau | atītaḥ atikrāntaḥ, eṣyaḥ bhāvi | tat yathā ā yadā ekaḥ grahaḥ purastāt sthitaḥ vakrī, [anyaḥ] paścāt avasthitaḥ cāreṇa gacchati, tayoh̥ antarālaliptā vilomavivaram | tatra ekasya anulomacāriṇaḥ, aparasya pratilomam āgacchataḥ alpēna kālena yogaḥ bhaviṣyati iti tayoh̥ bhuktīyogena bhāgaḥ hriyate, yasmāt tāvān eva tayoh̥ āhnikāḥ bhogaḥ | tena trairāśīkam kriyate ā yadi anena āhnikena bhogena ekaḥ divasaḥ labhyate, tadā anena vilomavivareṇa kim iti | divasā ghaṭikā vā labhyante | tāvān kālaḥ atikrānte yoge atītaḥ, bhāvini yoge eṣyaḥ | tatra samalīptāvidhānam bhuktyā trairāśīkam ā yadi ṣaṣṭyā ghaṭikābhiḥ grahasphuṭagatiḥ labhyate, tadā vilomotpānnaghaṭikābhiḥ kā bhuktiḥ iti labdham anulomagatau grahe prakṣipyate vilomagateḥ apanīyate | evam tau samalīptau grahāvīṣṭakālasambhavau bhavataḥ | atha vakragatiḥ paścāt avatiṣṭhate, purastāt anulomagatiḥ tadā labdham phalam vakragatau prakṣipyate atikrāntatvāt, anulomagatiḥ vīśodhyate atikrāntatvāt eva | yadā punar anulomagatī etau bhavataḥ tadā bhuktivīśeṣeṇa anulomavivarasya bhāgaḥ, yasmāt bhuktivīśeṣatulyam āhnikam gatyantaram tayoh̥ | tataḥ anena gatyantareṇa bhuktivīśeṣeṇa janitena ṣaṣṭiḥ nāḍyaḥ upalabhyante tadā anulomavivareṇa kim iti ghaṭikāḥ labhyante |

tābhiḥ ca grahasphuṭabhuktyā saha trairāśīkam ā yadi ṣaṣṭyā sphuṭabhuktiḥ labhyate,
ābhiḥ ghaṭīkābhiḥ kim iti | labdham śīghragatau paścāt vyavasthite ubhayam ubhayatra
svam svam prakṣipyate | śīghragatau puraḥstHITE tat ubhayam ubhayasmāt apanīyate |
evam dviyogakālau atītaiṣyau bhavataḥ | yadā ca dvau api vakragatī bhavataḥ tadā api
evam eva karma | idam eva karma
asmābhiḥ karmanibandhe uktam ā

grahayoḥ antaram bhājyam pratilomānulomayoḥ |
bhuktiyogena vā anyatra bhogaviśeṣasaṅkhyayā ||
dinādiḥ labhyate kālaḥ yoginām yogakāraḥ |
bhukteḥ anekarūpatvāt sthūlaḥ kālaḥ sa gamyate ||
samalīptāvataḥ yuktyā kuryāt tantrasya veditā |
sopadeśāt guroḥ nityam abhyāsāt vā avagamyate ||
[mahābhāskarīyam, 6.49-51]

iti |

sūryācandramasoḥ api ā

gantavyayātatiṣeṣahate ravīndroḥ bhuktī krameṇa dinabhuktiviśeṣabhakte |
labdhena yuktarahitau śāsitigmaraśmī jñeyau samau sakalalokavidhānahetū ||
[mahābhāskarīyam, 4.64]

laukikagaṇite api uddeśakaḥ ā

sārdham yojanam ekaḥ valabhītaḥ yāti asau dinena eva |
āgacchati harukacchāt pādayutam yojanam hi aparāḥ ||

antaram anayoḥ dṛṣṭam tu aṣṭādaśa yojanāni pathikena |
vācyam yogaḥ kiyatā kālena abhūt tayoh gaṇaka || 1 ||

nyāsaḥ ā valabhīprasthitasya [gatiḥ]

3

2,

harukacchāt āgacchataḥ [gatiḥ]

5

4,

tayoh vilomavivaram 18 |

karaṇam ā anayoḥ gatiyogaḥ

11

4 |

anena vilomavivarasya bhāgalabdham divasāḥ 6, divasabhāgāḥ ca

6

11 |

anulomavivaroddeśakaḥ ā

valabhītaḥ yāti naraḥ gaṅgām divasena yojanam sārddham |

aparaḥ tribhāgahīnam śivabhāgapurāt tadā yāti |

aṣṭau triguṇāni tayoh antaram uktam ca yojanāni budhaiḥ |

ekena pathā yātau kiyatā kālena samyuktau || 2 ||

nyāsaḥ ā valabhīprasthitasya gatiḥ

3

2,

śivabhāgapuraprasthitasya gatiḥ

2

3,

anulomavivaram 24 |

karaṇam ā etayoḥ gativiśeṣaḥ

5

6,

anulomavivaram 24 | asya gativiśeṣeṇa bhāgalabdham divasāḥ 28, divasabhāgāḥ ca

4

5

|| 31 ||

[kuṭṭākāraḥ]

idānīm kuṭṭākāraganitam abhidhīyate | tatra āryāsūtradvayam ā

adhikāgrabhāgahāram chindyāt ūnāgrabhāgahāreṇa |

śeṣaparasparabhaktam matiguṇam agrāntare kṣiptam || 32 ||

adhaupariguṇitam antyayuk ūnāgracchedabhājite śeṣam |

adhikāgracchedaguṇam dvicchedāgram adhikāgrayutam || 33 ||

adhikāgrabhāgahāram chindyāt | agram śeṣaḥ | adhikāgram yasya saḥ ayam

adhikāgraḥ | adhikāgraḥ ca asau bhāgahāraḥ ca adhikāgrabhāgahāraḥ | tam

adhikāgrabhāgahāram, chindyāt vibhajet iti arthaḥ | kena iti āha ā ūnāgrabhāgahāreṇa |

śeṣaparasparabhaktam | labdhena na asti prayojanam, śeṣeṇa saha karma kriyate |

paraspareṇa bhaktam parasparabhaktam, itaretarabhaktam iti arthaḥ | śeṣeṇa saha
parasparabhaktam śeṣaparasparabhaktam | matiguṇam,
svabuddhiguṇam iti arthaḥ | katham punar svabuddhiguṇaḥ kriyate ? ayam rāśiḥ kena
guṇitam idam agrāntaram prakṣipyā viśodhya vā asya rāśeḥ śuddham bhāgam dāsyati
iti | agrāntare kṣiptam | sameṣu kṣiptam viṣameṣu śodhyam iti sampradāyāvicchedāt
vyākhyāyate |

evam paraspareṇa labdhāni padāni avasthāpya, matiḥ ca adhaḥ, paścimalabdham ca
matyā adhaḥ | adhupariguṇitam, adhaḥsthitena rāśinā uparirāsiḥ guṇitaḥ | antyayuk,
antyena rāśinā paścimalabdhena sahitaḥ | evam bhūyaḥ bhūyaḥ karma yāvat
karmaparisaṁptim iti | ūnāgracchedabhājite śeṣam, ūnāgrasya yat chedam tena
bhājite śeṣam, tena ūnāgracchedena pūrvagaṇitakarmanā niṣpannarāśeḥ
vibhaktaśeṣam parigrhyate | adhikāgracchedaguṇam, adhikāgracchedena
abhyastam | dvicchedāgram, dvayoḥ chedayoḥ agram, agram saṅkhyā |
adhikāgrayutam, adhikāgreṇa yutam adhikāgrayutam | etat uktam bhavati ā
ūnāgracchedabhājite śeṣam adhikāgracchedena abhyastam adhikāgrasahitam tat
dvayoḥ api chedayoḥ bhājyarāśiḥ bhavati iti |

evam sāgrakuṭṭākāraḥ vyākhyātaḥ | niragrakuṭṭākāraḥ api uttaratra vakṣyati |

uddeśakaḥ ā

pañcabhiḥ ekam rūpam dve rūpe ca eva saptabhāgena |
avaśiṣyate tu rāśiḥ vigaṇyatām tatra kā saṅkhyā || 1 ||

nyāsaḥ ā 1 2

5 7

karaṇam ā adhikāgracchedam sapta 7, ūnāgracchedena pañcakena 5, bhājite śeṣam upari dvau 2 adhaḥ pañca 5 | alpaḥ rāśiḥ iti atra eva matiḥ kalpyate | ayam [upari] rāśiḥ kena guṇitaḥ rūpam agrāntaram prakṣipyā pañcabhiḥ śuddham bhāgam dāsyati iti labdhā matiḥ dve rūpe | bhāgalabdham ekam 1, śeṣam 0 | asya sthāpanā

2

1 |

ṭṛtīyapadasya asambhavāt etat eva sañjātam | ūnāgracchedabhājite śeṣam 2, adhikāgracchedena saptakena guṇitam jātam 14, adhikāgra[2]sahitam 16 | etat eva dvicchedāgram | ayam eva rāśiḥ pañcabhiḥ bhāgam hriyamāṇaḥ ekāgraḥ, saptabhiḥ dvyagraḥ iti |

uddeśakaḥ ā

dvādaśabhiḥ pañcāgraḥ saptāgraḥ sa ca punar mayā dr̥ṣṭaḥ |
ekatṛiṃśadbhaktaḥ kaḥ asau rāśiḥ bhavet ekaḥ || 2 ||

nyāsaḥ ā 5 7

12 31

karaṇam ā "adhikāgrabhāgahāram chinyāt ūnāgrabhāgahāreṇa" iti śeṣam upari sapta, adhaḥ dvādaśa | etayoḥ parasparabhakte labdham ekam, punar ekam eva, śeṣam upari dvau adhaḥ pañca | atra matiḥ | samāni padāni iti ayam rāśiḥ kena guṇitaḥ rūpadvayam agrāntaram prakṣipyā pañcabhiḥ śuddham bhāgam dāsyati iti labdham rūpam catuṣkam matiḥ | tām pūrvalabdhasya adhaḥ vyavasthāpayet | bhāgalabdham ca rūpadvayam iti evam labdham adhaḥ vyavasthāpyaḥ

| "adhaupariguṇitam antyayug" iti anena nyāyena labdham 10 | etat eva

"ūnāgracchedabhājite śeṣam adhikāgracchedaguṇam" jātam 310, "adhikāgrayutam
dvicchedāgram" tat ca idam 317 |

uddeśakaḥ ā

aṣṭābhiḥ pañcāgraḥ caturagraḥ kīrtitaḥ navabhiḥ eva |
saptabhiḥ ekāgraḥ asau vigaṇyatām kaḥ bhavet rāśiḥ || 3 ||

nyāsaḥ ā 5 4 1

8 9 7

karaṇam ā

5 4

8 9.

etayoḥ kuṭṭākāreṇa [labdham] rūpam 1, rāśiḥ ca trayodaśa | atra chedayoḥ abhyāsaḥ
bhāgahāraḥ iti sthāpanā

13 1

72 7 |

etayoḥ pūrvavat labdhaḥ rāśiḥ 85 | ayam rāśiḥ aṣṭābhiḥ bhāgam hriyamāṇaḥ
pañcāgraḥ, navabhiḥ caturagraḥ, saptabhiḥ ekāgraḥ iti |

uddeśakaḥ ā

dvyādyaiḥ śatparyantaiḥ ekāgraḥ yaḥ avaśiṣyate rāśiḥ |

saptabhiḥ eva sa śuddhaḥ vada śīghram kaḥ bhavet gaṇaka || 4 ||

nyāsaḥ ā 1 1 1 1 1 0

2 3 4 5 6 7

atra icchayā adhikāgraḥ rāśiḥ parikalpanīyaḥ | labdham pūrvavat rāśipramāṇam 301 |
evam sāgrakuṭṭākāraḥ vyākhyātaḥ |

[niragrakuṭṭākāraḥ]

idānīm tu eva sūtre niragrakuṭṭākārtham vyākhyāsyāmaḥ | adhikāgrabhāgahāram
chindyāt apavartayet iti arthaḥ | kena iti āha ā ūnāgrabhāgahāreṇa | agram saṅkhyā,
ūnam ca tadagram ca ūnāgram, ūnāgram ca tat bhāgahāraḥ ca sa ūnāgrabhāgahāraḥ,
tena ūnāgrabhāgahāreṇa, apavartayet iti arthaḥ | yathā ekaviṃśatiḥ saptabhiḥ
apavartyate | yena bhāgahāraḥ apavartitaḥ tena eva bhājyaḥ api apavartanīyaḥ |
katham idam avagamyate yena eva bhāgahāraḥ
apavartitaḥ tena eva bhājyaḥ api apavartanīyaḥ iti ? sampradāyāvicchedāt | athavā
nyāyaḥ eṣaḥ, apavartitasya bhāgahārasya apavartitena eva bhājyena bhavitavyam iti,
yathā saptabhiḥ ekaviṃśatiḥ bhāgāḥ apavartitāḥ tribhāgāḥ | athavā bhāgahārasya
apavartanam bruvatā ācāryeṇa bhājyasya api apavartanam abhihitam eva | kutaḥ ?
bhāgahārabhājyayoḥ saha cāritvāt | yathā sthālāni parimrjyantām iti ukte sarakāṇi api
parimrjyante | adhikāgrabhāgahāram iti ādinā granthena
etat pratipādayati ā apavartitayoḥ bhāgahārabhājyayoḥ kuṭṭākāraḥ iti |
śeṣaparasparabhaktam, bhāgahārabhājyayoḥ parasparabhaktam iti | matiguṇam iti etat
pūrveṇa samānam | agrāntare kṣiptam, agram saṅkhyā, agrasya antaram agrāntaram
saṅkhyāntaram iti arthaḥ | tat ca icchāparikalpitam idam saṅkhyāntaram prakṣipyā
apanīya vā asya rāśeḥ śuddham bhāgam dāsyati iti | adhaupariguṇitam antyayuk iti etat
sarvam pūrveṇa samānam | ūnāgracchedabhājite śeṣam,
apavartitabhāgahāraśeṣam iti arthaḥ | kuṭṭākāraḥ bhavati iti vākyaśeṣaḥ | upari [rāsiḥ]
bhāgahāreṇa bhaktaḥ [kāryaḥ] adhorāśiḥ bhājyarāśinā bhājyaḥ | gaṇite api uktam ā

upari ca bhāgahāreṇa bhakte hi rāśiḥ bhavet vā |

iti evam ādinā granthena | śeṣe kuṭṭākārabhāgalabdhe bhavataḥ iti |
adhikāgracchedaguṇam iti ādi na niragrakuṭṭākāreṣu [upayujyate] |

tat yathā uddeśakaḥ ā

aṣṭau kena abhyastāḥ ṣaḍrūpayutāḥ hṛtāḥ trayodaśabhiḥ |
dadyuḥ śuddham bhāgam kaḥ guṇakāraḥ kim āptam ca || 5 ||

nyāsaḥ ā 8 6

13

bhājyaḥ aṣṭau, bhāgahāraḥ trayodaśa, agrāntaram ṣaṭ |

karaṇam ā bhājyabhāgahārarāśī rūpeṇa apavartitau

8

13

"śeṣaparabrahaktam" iti jātam

1

1

1

1 |

parasparabhaktaśeṣam

1

2 |

"matiguṇam agrāntare kṣiptam" iti ayam ekaḥ rāśiḥ kena guṇitaḥ ṣaḍrūpāṇi prakṣipyā

dvābhyām śuddham bhāgam dāsyati iti matiḥ dve 2, matyā guṇitam jātam

2

2 |

etat ṣaḍrūpayutam

8

2 |

labdham rūpacatuṣkam 4 | etat sarvam yathākrameṇa

1

1

1

1

2

4 |

"adhaupariguṇitam antyayuk" iti jātam

22

14 |

"ūnāgracchedabhājite śeṣam" iti ūnāgra[=apavartita]bhāgahārabhājyabhaktaśeṣam

sthāpitam

9

6 |

ayam kuṭṭākāraḥ bhāgalabdham ca |

uddeśakaḥ ā

ekādaśa kena hatāḥ trikarahitāḥ te hṛtāḥ triviṃśatyā |

dadyuḥ śuddham atha aṃśam labdham guṇakam ca me brūhi || 6 ||

nyāsaḥ ā 11

23

[trika]rahitāt labdham pūrvakrameṇa eva kuṭṭākāraḥ bhāgalabdham ca

17

8 |

[grahakuṭṭākāraḥ, maṇḍalaśeṣavidhiḥ]

atha idānīm grahagaṇite kuṭṭākāraḥ yojyate ā ravibhāgaṇāḥ kena guṇitāḥ

maṇḍalaśeṣam apanīya bhūdivasānām śuddham bhāgam dadyuḥ iti ravibhagaṇāḥ

bhūdivasāḥ ca nyasyante

4320000

1577917500 |

etau ūnāgracchedārtham paraspareṇa bhājyau | śeṣam ūnāgracchedaḥ

pañcasaptatiśatāni 7500 | anena apavartitau

576

210389|

etau ūnāgracchedabhājitau śeṣau | etayoḥ bhagavataḥ bhāskarasya kuṭṭākāraḥ

sādhyaḥ |

uddeśakaḥ ā

madhyam raveḥ mṛgapatau dhanuḥ aṃśakārdhe

dr̥ṣṭam mayā dinakarodayakālajātam |

āgaṇyatām dinagaṇaḥ bhaṭaśāstrasiddhaḥ

yātāḥ ca tasya bhagaṇāḥ kalikālasiddhāḥ || 7 ||

nyāsaḥ ā [madhyamaraviḥ] 4 | 28 | 20 |

"gaṇakārāḥ bhāgaharāḥ" [gaṇitaī, 28] iti maṇḍalaśeṣānayanam | tat yathā ā savitāram
liptīkṛtya jātam 8900 | etat anena 210389 guṇitam khakhaṣaḍghanena [21600] bhaktam,
labdham maṇḍalaśeṣam 86688 | idam eva maṇḍalaśeṣam agrāntaram parikalpya
kuṭṭākāraḥ kriyate |

[nyāsaḥ]

576 agrāntaram 86688

210389

labdham kuṭṭākāranyāyena ā

8201068565

22452768

ūnāgrabhāgahārabhājyabhaktaśeṣau ā

[105345

288]

[288] etat kaliyātam, ahargaṇaḥ ca ā 105345 |

athavā ekarūpāpacayena kuṭṭākāram kṛtvā ahargaṇaḥ maṇḍalāni ca ānīyante | tat yathā
ā ekāpacayena kuṭṭākārabhāgalabdham ā

94602

259

anena maṇḍalaśeṣeṇa ca trairāśīkam ā yadi ekarūpāpacayena ayam kuṭṭākāraḥ
maṇḍalaśeṣāpacayena kiyān iti nyāsaḥ ā 1, 94602, 86688 | atra labdham
nirapavartitadivasaiḥ vibhaktaśeṣam ahargaṇaḥ pūrvalikhitāḥ eva | maṇḍalānayane
ekarūpāpacayena idam bhāgalabdham, maṇḍalaśeṣāpacayena kiyat iti nyāsaḥ ā 1,
259, 86688 | atra labdham nirapavartitamaṇḍalaiḥ vibhaktam śeṣam maṇḍalāni
pūrvalikhitāni eva |

[maṇḍalagantavyavidhiḥ]

athavā nirapavartitabhāgahārabhājyarāśī [maṇḍalagantavyam] [kṣepaḥ ca] parikalpya
kuṭṭākāraḥ kriyate | tat yathā ā

gantavyam raviṇā aṣṭam asya bhavanasya āhuḥ kalānām śatam
sañcintya āśu vada aśmakasya gaṇitam jñātam tvayā cet yadi |
yāvanti adya kaleḥ gatāni matiman varṣāṇi sarvāṇi me
tu ahnām yaḥ ca gaṇaḥ sa ca eva viśadam vācyam kaleḥ yaḥ gatam || 8 ||

nyāsaḥ ā gantavyam raviṇā ā

7

1

40

anena maṇḍalagantavyena "guṇakārāḥ bhāgaharāḥ" iti maṇḍalagantavyam 123701 |

anena upacayāgreṇa pūrvavat ahargaṇaḥ kaliyātam ca

105345

288 |

ekarūpopacayena kuṭṭākāraḥ bhāgalabdham ca

115787

317 |

pūrvavat anena api yadi ekarūpopacayena ayam kuṭṭākāraḥ bhāgalabdham vā
maṇḍalagantavyopacayena [123701] kaḥ kuṭṭākāraḥ bhāgalabdham ca iti labdham
nirapavartitabhāgahārabhājyabhaktaśeṣam ahargaṇaḥ bhāgalabdham ca |

atra maṇḍalagantavyaprakṣepāt ekam adhikam bhavati | ataḥ maṇḍalam ekam
apanīyate | evam maṇḍalakuṭṭākāraḥ vyākhyātaḥ |

[rāsikuṭṭākāraḥ]

idānīm tu rāsikuṭṭākāraḥ ucyate | tat yathā ā

uddeśakaḥ ā

vātyā hṛtāḥ sabhagaṇāḥ divasasya bharttuḥ
ye rāsayaḥ divasarāśivaśena labdhāḥ |
śeṣam trisapta navapañca ca bhāgaliptāḥ
vācyam divākaragatam dinarāśisākam || 9 ||

nyāsaḥ ā 0

0

21

59

karaṇam ā "guṇakārāḥ bhāgaharāḥ" iti rāśiśeṣam labdham 154168 |

apavartitaravibhagaṇāḥ dvādaśaguṇāḥ rāsayāḥ iti sthāpanā

6912

210389 |

rāśiśeṣam 154168 |

labdham kuṭṭākārakrameṇa ahargaṇāḥ bhāgalabdham ca ā

176564

5800

bhāgalabdham dvādaśabhiḥ vibhajya labdham bhuktabhagaṇāḥ | śeṣam rāsayāḥ | te ca

483, [4] | ahargaṇāḥ [176564 | athavā] yāvat abhirucitam pṛcchakāya |

ekarūpāpacayena api kuṭṭākāram kṛtvā labdham ā

113078

3715

etābhyām api trairāśikena ahargaṇāḥ bhāgalabdham ca

176564

5800

śeṣam samānam |

[prakārāntareṇa sādhanavidhiḥ]

anye punar dvādaśānām bhūdivasānām ca ekāpanayena kuṭṭākāram kṛtvā trairāśīkam
kurvanti | yasmāt maṇḍalaśeṣasya dvādaśa guṇakāraḥ | tatra gatāḥ rāśayaḥ
maṇḍalaśeṣam ca labhyante | tat yathā ā

nyāsaḥ ā

12

210389

atra labdham kuṭṭākāraḥ bhāgalabdham ca ā

122727

7

śeṣam uktatvāt na uktam |

[bhāgakuṭṭākāraḥ]

bhāgaśeṣaḥ uddeśakaḥ ā

bhagaṇabhavanabhāgāḥ vātanītāḥ samastāḥ

dinakaraparibhuktāḥ liptikāḥ pañca dr̥ṣṭāḥ |

vada yadi dinarāśim vetsi cet āśmakīyam

gatam api dinabhartuḥ maṇḍalādyam kṣaṇena || 10 ||

nyāsaḥ ā

0

0

0

5

[labdham] bhāgaśeṣam ā 17532

pūrvavat labdham ahargaṇaḥ bhāgalabdham ca ā

62715

61812

yadā punar ekāpanayena kuṭṭākāram kṛtvā trairāśīkam kriyate tadā api sa eva
ahargaṇaḥ, tat eva bhāgalabdham | tat yathā ā ekāpanayena api kuṭṭākārabhāgalabdhe
syātām | te ca ā

59873

51011

anena trairāśīkena pūrvavat labdhaḥ eva ahargaṇaḥ bhāgalabdham ca | bhāgalabdhe
ṣaṣṭīsatatrayabhakte gatamaṇḍalāni rāśibhāgāḥ ca jātāḥ 171, 8, [12] |

anye punar triṃśataḥ nirapavartitabhūdinānām ca kuṭṭākāram kṛtvā trairāśīkena
gatabhāgān rāśīśeṣam ca ānayanti | tat yathā ā

[nyāsaḥ] ā

30

210389

[atra] kuṭṭākāraḥ bhāgalabdham ca ā

7013

1

anena trairāśīkam kṛtvā rāśīśeṣam gatabhāgāḥ ca ā

84740

12

anena rāśiśeṣeṇa ahargaṇānayanasya abhihitvāt na uktam |

[liptākuṭṭākāraḥ]

evam liptāśeṣam dṛṣṭvā kuṭṭākāraḥ kriyate | tat yathā ā

uddeśakaḥ ā

maṇḍalarkṣalavaliptikā hṛtā mārutena [vikalā pradṛśyate] |

kathyatām dinagaṇaḥ vivasvataḥ bhuktamaṇḍalagr̥hāṃśaliptikāḥ || 11||

nyāsaḥ ā

0

0

0

0

1

pūrvavat labdham liptikāśeṣam ā 3506

karaṇam ā khakhaṣaḍghanena apavartitaravibhagaṇān saṃguṇayya sthāpanā ā

12441600

210389

atra bhāgahāreṇa bhājyam vibhajya labdham pṛthagvinaṣṭam sthāpayet | śeṣasya

bhūdivasānām ca kuṭṭākāram kṛtvā labdhasya uparirāśim kuṭṭākāram
avinaṣṭasthāpitena pṛthak saṃguṇayya bhāgalabdham prakṣipet | bhāgalabdham
bhavati | anena krameṇa labdham ahargaṇaḥ bhāgalabdham ca | sthāpanā ā
125342
7412246

bhāgalabdhe khakhaṣaḍghanabhakte gatamaṇḍalāni rāśibhāgaliptāḥ ca ā
343
1
27
26

athavā ekāpanayena kuṭṭākāram kṛtvā trairāśikam kriyate | tat yathā ā ekāpanayena
kuṭṭākāraḥ bhāgalabdham ca ā
81647
4828291

śeṣam uktatvāt na uktam |

athavā ṣaṣṭyā bhūdivasānām ca ekāpanayena kuṭṭākāram kṛtvā bhāgaśeṣam gataliptāḥ
ca labhyante anupātena | tat yathā ā ekāpanayena ṣaṣṭyā bhūdivasānām ca kuṭṭākāraḥ
bhāgalabdham ca ā
108701
31

evam liptātatparāśeṣayoḥ api yojyam |

atha kaścit sūryam uddīśya kiyatā kālena punar evaṃvidhaḥ sūryaḥ bhaviṣyati iti
pṛcchati, sa evam vaktavyaḥ ā nirapavartitabhūdinatulyaiḥ iti, yasmāt
nirapavartitabhūdinaiḥ kṣiptaḥ sūryaḥ tādrk eva bhavati |

[vāraḥkūṭṭākāraḥ]

atha kaścit sūryadine sūryam uddīśya punar kiyatā kālena sūryadine somadine anyasya
vā grahavāradivase sūryaḥ evam bhaviṣyati iti pṛcchati, tat yathā ā
nirapavartitabhūdineṣu saptahr̥tāvaśiṣṭeṣu kuṭṭākāraḥ kriyate | grahavāraḥ yaḥ nirdiṣṭaḥ
tasmāt ya[t u]ttaraḥ grahavāraḥ tataḥ prabhṛti ekottarayā vṛddhyā apacayam parikalpya
evam labdham kuṭṭākāraḥ nirapavartitabhūdinānām guṇakāraḥ tena guṇiteṣu
nirapavartitabhūdineṣu nirdiṣṭasūryeṇa ānītam
ahargaṇam prakṣipyā jātadivasatulyaḥ kālaḥ ādeṣṭavyaḥ | tat yathā ā

uddeśakaḥ ā

dhanvinyamaśāḥ śarakṛtisamāḥ ṣaṭkṛtiḥ maurikāṇām
madhyam bhānoḥ daśa ca vikalāsamṃyutam varṇayanti |
rātreḥ pātuḥ tanujadivase kena kālena tulyaḥ
bhāvī sūryaḥ kathaya viśadam jīvaśukrajñavāre || 12 ||

budhadivase ayam sūryamadhyamaḥ ā

8

25

36

10

anena sūryeṇa pūrvakaraṇena labdham ahargaṇaḥ 1000 | asmin ahargaṇe budhavāraḥ
| atha kuṭṭākārānayanam | nirapavartitabhūdivaseṣu saptabhakteṣu śeṣaḥ 4 |
jīvadinārtham kuṭṭākāraḥ ekāpanayena 2, anena nirapavartitabhūdivasāḥ guṇitāḥ jātāḥ
420778, asmin pūrvalabdha[hargaṇayute jātāḥ] kālaḥ 421778 | śukradinārtham
kuṭṭākāre dvau apanīyate | labdham pūrvavat kālaḥ 842556 | budhadinārtham
kuṭṭākāraḥ 7 | kālaḥ ca 1473723 |

evam sarveṣu eva divasavāreṣu yuktyā kālaḥ kuṭṭākāraḥ ca yojyaḥ |

[grahakuṭṭākāre viśeṣaḥ]

yaḥ upacayāgraḥ kuṭṭākāraḥ sa ca rāsibhāgaliptāśeṣeṣu api yojyaḥ | tat yathā ā

uddeśakaḥ ā

ye bhuktāḥ pavanahr̥tāḥ sarāsibhāgāḥ
dṛśyante divasakareṇa bhojyaliptāḥ |
tanmātrāḥ viṣayakṛtiḥ śivaiḥ sametāḥ
vācyaḥ ahnām atha ca gaṇaḥ dvākaraḥ ca || 13 ||

nyāsaḥ ā

0

0

36

atra apavartitabhagaṇān bhāgīkṛtya upacayāgreṇa saha pūrvavat kuṭṭākāralabdhaḥ
ahargaṇaḥ bhāgalabdhaḥ ca

66027

65077 |

atra bhāgalabdham ekena adhikam bhavati | ekam apanīya śeṣe ṣaṣṭīsatatrayabhakte
raveḥ bhagaṇāḥ rāśayaḥ bhāgāḥ ca prativaktavyāḥ |

ekarūpopacayena api kuṭṭākāram kṛtvā gantavyāgreṇa anena 126233 trairāśikam |
anena api labdham ahargaṇaḥ bhāgalabdham ca pūrvalikhitam eva | evam anyeṣām
api grahāṇām kuṭṭākāraḥ yojyaḥ |

[vāraḥ kuṭṭākāre viśeṣaḥ]

atha kaścit evam pṛcchati ā sūryācandramasau sūryadine somadine vā iyatsaṅkhyau |
etau punar kiyatā kālena etāvatsaṅkhyau eva bhaviṣyataḥ iti | atra kuṭṭākārakramaḥ ā
kaścit rāśiḥ sūryasya nirapavartitabhūdivasaiḥ bhāgam hriyamāṇaḥ śūnyāgraḥ,
candrasya api śūnyāgraḥ eva saḥ | asmin uddeśane dvayoḥ api sambandhaḥ
dvicchedāgrasaṃvargaḥ hi nāma sadṛśīkaraṇam rāśeḥ | atra ca sūryasya
nirapavartitadivasāḥ anena 3449 apavartitāḥ labdham 61 | candrasya
api tena eva apavartitena jātāḥ 625 | tataḥ sūryasya niravartitadinānām
apavartitacandradivasāḥ guṇakāraḥ | te ca atra likhitāḥ eva | guṇite jātam 131493125 |
candrasya api sūryāpavartitadivasaiḥ guṇite jātam 131493125 | anena rāśinā pūrvavat
grahakuṭṭākāraḥ yojyaḥ | tat yathā ā

uddeśakaḥ ā

sūryācandramasau tulādharanare dr̥ṣṭau mayā tattvataḥ
bhāgaiḥ dvādaśabhiḥ dvayena ca yutau sūryasya vārodaye |
liptābhiḥ śaśisūnyasāgarayutau jīvasya vāre punar

śukrasya atha śanaīscarasya divase tulyau kiyadbhiḥ dinaiḥ ||
viliptābhiḥ adhikaḥ arkaḥ vijñeyaḥ bhūdharendubhiḥ |
śodhayet ca niśānāthāt viliptāḥ dhṛtisammitāḥ || 14 ||

nyāsaḥ ā

[sūī] [caṃī]

6 6

12 2

1 39

17 42

labdham ābhyām ahargaṇaḥ ā 7500 |

karaṇam ā sūryācandramasoḥ nirapavartitadivasānām grahabhaktaśeṣam

1

7 |

nirdiṣṭavārāt uttarataḥ caturthaḥ jīvaḥ, pañcamaḥ śukraḥ, ṣaṣṭhaḥ śanaīscaraḥ iti etaiḥ
evam tu ime grahabhaktaśeṣāt yathākramaṇa labdhāḥ jīvasya 4, śukrasya 5,
śanaīscarasya 6 | ete eva sūryācandramasoḥ nirapa[va]rtitadivasānām guṇakārāḥ |
guṇakāraguṇiteṣu ānītāhargaṇam prakṣipyā kramaṇa ā

[525980000, 657473125, 788966250 divasāḥ]

[grahayoyena kuṭṭākāraḥ]

atha kaścit dvau grahau ekatra kṛtvā ahargaṇam pṛcchati tasya ayam upāyaḥ ā

nirdiṣṭagrahabhagaṇānām samāsītānām bhūdivasānām ca apavartanam kṛtvā
kuṭṭākāraḥ karaṇīyaḥ | tat yathā ā

uddeśakaḥ ā

triṃśatpañcaśaśāṅkāḥ saṃyuktau śaśidivākarau dṛṣṭau |
dinarāśim brūhi gatam cakrāṇi ca yāni bhktāni || 15 ||

nyāsaḥ ā 1

5

30

karaṇam ā candrādityabhagaṇāḥ 62073336 | [yugakudinapramāṇam ca] 1577917500 |
etau dvādaśabhāgena apavartitau jātau ā

5172778

131493125

maṇḍalaśeṣam ā 12966683 | atra labdham pūrvavat ahargaṇaḥ bhāgalabdham ca ā

87942886

3459565

ekāpanayena api trairāśikam kṛtvā sa eva ahargaṇaḥ bhāgalabdham ca labhyate | tat
yathā ā

ekarūpāpacayena api kuṭṭākāraḥ bhāgalabdham ca ā

57699692

2269835

[atra api trairāsikena pūrvoktaḥ eva ahargaṇaḥ bhāgalabdhā ca |]

evam anyeṣāṃ api samāsapraśneṣu kuṭṭākāraḥ kalpanīyaḥ, rāsibhāgaliptāśeṣeṣu api |
evam eva tricatuḥsamāseṣu api vistareṇa vyākhyeyam |

[dvyagrakuṭṭākāraḥ]

atha kaścit divasakramaṇḍalaśeṣaparisaṃmāptikāle janitam divicaram uddīśya
divasakaram divicarabhagaṇān pṛcchati, tasya ayam upāyaḥ ā nirdiṣṭadivicaram
ravibhagaṇān ca apavartya kuṭṭākāraḥ yojyaḥ | tat yathā ā

uddeśakaḥ ā

bhānumaṇḍalasaṃmāptikālaḥ medinīhr̥dayaḥ abhilakṣitaḥ |
dvitripañcaviṣayāḥ gr̥hādayaḥ brūhi maṇḍalagatam kujārkayoḥ || 16 ||

nyāsaḥ ā 2

15

5

karaṇam ā kujārkabhagaṇāḥ ā

2296824

4320000

etau caturviṃśatibhiḥ apavartitau ā

95701

180000

maṇḍalaśeṣam idam 37542 | labdham ravikujayoḥ yātabhagaṇāḥ 68142, 36229 |

ekāpanayena api kuṭṭākāram kṛtvā trairāśikena te eva bhagaṇāḥ | tat yathā ā

ekāpanayena kuṭṭākāraḥ bhāgalabdham ca ā

174301

92671

evam eva anyeṣām api grahāṇām |

athavā graham uddīśya graham eva anyam [ṛcchati tatra] api

bhāgahārabhājyaparikalpanayā kuṭṭākāraḥ kalpanīyaḥ |

atha maṇḍalaparīsamāptikālāt anyakālasambhūtagrahabhagaṇādīn uddīśyate tathā

[graha]bhagaṇāt tatra ravibhagaṇarāśibhāgaliptān ca ṛcchati, tasya api

kuṭṭākārānayanasya ayam upāyaḥ ā ravibhagaṇān khakhaṣaḍghanena saṃguṇayya

nirdiṣṭabhagaṇaiḥ saha apavartya kuṭṭākāravidhiḥ iti | tat yathā ā

uddeśakaḥ ā

svocchāṃśakārdham adhirūḍhamahendrasūrī

tejovitānavimalīkṛtadinmukhena |

sūryeṇa yātam iha ṛcchati ca āśmakīye

vācyam kim āśu vada tasya viśālabuddhe || 17 ||

nyāsaḥ ā 0

3

4

30

karaṇam ā [gurubhagaṇāḥ] khakhaṣaḍghanaguṇitasūryabhagaṇaiḥ saha apavartite
dvinavatyuttaraśatabhāgena jātau

1897

486000000

śeṣam apacayaḥ 127575000 | labdham sūryayāta[liptāḥ guru]bhagaṇāḥ ca 78975000,
[308] | liptāḥ khakhaṣaḍghanabhaktāḥ maṇḍalāni rāśayaḥ bhāgāḥ liptāḥ ca sūryasya

3656

3

0

0

ekāpanayana api kuṭṭākāram kṛtvā trairāśikena etat eva labhyate | tat yathā ā
ekāpanayena api kuṭṭākāraḥ bhāgalabdham ca ā

135014233

527

evam rāśyādiśeṣeṣu api yojyam |

[velākuṭṭākāraḥ]

atha velākuṭṭākāraḥ | kaścit graham udayakālāt anyakālajanitam pradarśya
divasagaṇam pṛcchati, tasya ayam ānayanopāyaḥ ā iṣṭakālacchedaguṇitān
nirapavartitabhūdivasān kṛtvā pūrvavat kuṭṭākāram niṣpādya iṣṭakālacchedabhaktaḥ

ahargaṇaḥ | tat yathā ā

uddeśakaḥ ā

rātryardhakālayanitaḥ divasasya bhartuḥ
iṣṭaḥ mṛgārdhasahitaḥ aṣṭacatuṣkalāgraḥ |
liptātribhāgaśakaladvitayena yuktaḥ
śīghram dinādi bhagaṇān ca vada āśmakīyam || 18 ||

nyāsaḥ ā 9

15

32

40

karaṇam ā ahargaṇaḥ caturbhāgena anena iti catvāri nirapavartitadinānām guṇakāraḥ
iti caturbhāgena ravibhagaṇān apavartya sthāpanā

144

210389 |

maṇḍalaśeṣam 166876 | labdham pūrvavat kuṭṭākāraḥ [7003] | asya caturthāṃśāt
ahargaṇaḥ [1750] |

evam āstamayikaḥ uddeśakaḥ ā

astādreḥ tuṅgaśṛṅgavyavahitavapuṣaḥ tigmarāśmeḥ gatānām
cakrādyaṅkāvalīnām kramagaṇitacayaḥ vismṛtaḥ sarvaḥ eva |
dṛṣṭaḥ liptāgrāśeṣaḥ guṇaviyaduḍupāḥ spaṣṭaḥ eva aṅkarāśiḥ
śīghram vācyaḥ gaṇaḥ aḥnām kaliyugagaṇitaḥ maṇḍalādiḥ ca bhāsvān || 19 ||

nyāsaḥ ā 288 [x 21600] śeṣam 103

210389

anena apacayena pūrvavat ahargaṇasthāpanā ā 99275

bhāgalabdham raveḥ yātamaṇḍalarāśibhāgaliptāḥ ā

271

9

16

13

ekāpanayena kuṭṭākāraḥ bhāgalabdham ca

163294

4828291 |

anena api trairāśikena pūrvānītaḥ ahargaṇaḥ bhāgalabdham ca maṇḍalādi [pūrvoktam
eva] |

mādhyāhnikāḥ uddeśakāḥ ā

[yat śeṣam maṇḍalānām kha] navanagacaturbhūtaśītāṃsutulyam

madhyam yātasya bhānoḥ paṭutaranikaradyotitāśāmukhasya |

dr̥ṣṭam vācyāḥ gaṇaḥ ahnām gatabhagaṇa[cayaḥ yaḥ api kālena] siddhaḥ

kuṭṭākāropadeśaḥ vidhivat adhigataḥ yena tena āśmakīyaḥ || 20 ||

nyāsaḥ ā

[144

210389] maṇḍalaśeṣam 154790 |

anena maṇḍalaśeṣeṇa pūrvakaraṇena labdham [kuṭṭākāraḥ] bhāgalabdham ca
3997

2,

kuṭṭākārasya caturthaḥ aṃśaḥ ahargaṇaḥ 999 |

ekāpanayena kuṭṭākāraḥ bhāgalabdham ca

168019

115 | anena trairāśikena pūrvavat ahargaṇānayanam |

tathā ca yāmamuhūrtanāḍīvināḍīkākāleṣu api yathāyogam yuktyā kuṭṭākāraḥ
vikalpanīyaḥ | tat yathā ā

uddeśakaḥ ā

nāḍībhiḥ kiyatībhiḥ api upacitāt ahnām gaṇāt āgataḥ

tigmāṃśoḥ bhagaṇādikāḥ atra vilayam nītaḥ adhunā vātyayā |

dr̥ṣṭaḥ saptatiḥ ekarūpasahitā śeṣaḥ kalānām mayā

vaktavyaḥ dyugaṇaḥ gataḥ ca savituḥ spaṣṭāḥ ca yāḥ nāḍīkāḥ || 21 ||

liptāśeṣaḥ 71 |

karaṇam ā apavartitaravibhagaṇān śaṣṭyā saha apavartayet | śaṣṭyā dvādaśabhāgena

pañca | apavartitaravibhagaṇānām dvādaśabhāgena aṣṭacatvāriṃśat | pañcabhiḥ

bhūdināni [śeṣam ca] saṃguṇayya sthāpanā ā

48 [x 21600] śeṣam 71 [x 5]

1051945

[eṣu pañcabhiḥ apavartanam kṛtvā sthāpanā ā

207360 śeī 71]

210389

pūrvavat kuṭṭākāram kṛtvā labdhaḥ ahargaṇaḥ ā 720, nāḍyaḥ 3 |

raviyātabhagaṇādayaḥ ca ā

1

11

19

41

ekāpanayanena api kuṭṭākāraḥ bhāgalabdham ca ā

59873

59011

pūrvavat trairāśikena ahargaṇaḥ bhāgalabdham ca |

[anapavartitaśeṣeṇa kuṭṭākāraḥ]

atha punar a[na]pavartitam eva śeṣam uddīśya ahargaṇam yātam ca pṛcchati, tasya api

ayam ānayanopāyaḥ | bhāgahārabhājyāgrāṇām ekena apavartanacchedena

apavartanam kṛtvā pūrvavat kuṭṭākāraḥ kriyate | atha punar etāni bhāgahārabhājyāgrāṇi

chedena ekena apavartanam na prayacchanti yathā tathā asau uddeśakaḥ, tādrśaḥ ca

ekaḥ rāśiḥ eva na asti ataḥ na ānīyate |

uddeśakaḥ ā

śarayamavasavaḥ śatābhiniḥnā dinakramaṇḍalaśeṣarāśisaṅkhyā |
avikṛtabhagaṇakṣamādinotthā kathaya tayā dinarāśimaṇḍalāni || 22 ||

nyāsaḥ ā 4320000 śeṣam ā 82500
1577917500

ete rāśayaḥ ca khākāśaśaramunibhiḥ apavartya kuṭṭākāreṇa ahargaṇaḥ
raviyātamaṇḍalāni ca ā
199066
545 |

[dvyagrakuṭṭākāraviśeṣaḥ]

atha kaścit [dvi]cchedāgranyāyena ekam ahargaṇam grahayoḥ
bhinnāgrabhagaṇaśeṣābhyām pṛcchati, tasya api "adhikāgrabhāgahāram chindya"
ādityanena dvicchedāgrānayanam |

uddeśakaḥ ā

arkāṅgāarakavāsaraiḥ apahr̥taḥ kaścit dinānām gaṇaḥ
labdhau [tatra na vedmi] na eva ca tayōḥ śeṣau mayā lakṣitau |
yau tau maṇḍalatāḍitau atha punar bhaktau dinaiḥ svaiḥ pṛthak
tatra āptam marutā apanīta[m adhunā ca agre tayōḥ ti]ṣṭhataḥ ||
arkasya aśvinagābdhināgaśikhinaḥ śeṣaḥ kujasya ucyate

bhūtāśvyaṅganabhaḥ aṣṭaśītakiraṇakṣoṇīṣarakṣmābhṛtaḥ |
etābhyām pṛthak [arkabhūmisutayoḥ ahnām] gaṇau tadgatau
dvyagram ca api tayoh viḡanya gaṇakāḥ vyāvarṇayadhvam kramāt || 23 ||

nyāsaḥ ā arkasya 38472
bhaumasya 77180625

etābhyām maṇḍalaśeṣābhyām pṛthak pṛthak pūrveṇa krameṇa kuṭṭākāram kṛtvā
ahargaṇau labdhau, arkasya 8833, bhaumasya 640000 | etābhyām agrābhyām
"adhikāgrabhāgahāram chindyāt ūnāgrabhāgahāreṇa" iti anena kuṭṭākāraḥ kriyate |

tathā ca nyāsaḥ ā
[arkasya] 8833 [bhaumasya] 640000
210389 131493125
agrāntaram ā 631167

etayoḥ chedāgrāntarāṇām anena 210389 apavartanam kṛtvā sthāpanā ā
1 3
625

atra ūnāgracchedaḥ ekaḥ tena sarvaḥ eva rāśiḥ śuddhyate iti ataḥ rāśiviparyayāt
vyākhyāyate | tathā ca nyāsaḥ 1 | atra rūpam vidyate | ayam ekaḥ rāśiḥ kena guṇitaḥ
agrāntaram trīṇi apanīya [śarayamartubhiḥ bhāge hr̥te] śuddham bhāgam prayacchati iti
labdhaḥ rāśiḥ trīṇi rūpāṇi | asya viparyastarāśikrameṇa eva śarayamartubhiḥ bhāge hr̥te
śeṣaḥ kuṭṭākāraḥ trikaḥ tena adhikāgracchedena guṇitaḥ jātaḥ 1875 | anena
adhikāgracchedaḥ ayam 131493125 guṇitaḥ
adhikāgrayutaḥ dvicchedāgram samjātam

śarādriguṇanavābdhidviviyadbhūtaśararasābdhinetrāṇi, aṅkaiḥ api nyāsaḥ
246550249375 | ayam rāśiḥ dvicchedāgraḥ | evam anyena chedāgreṇa saha kuṭṭākāre
kriyamāṇe dvicchedāgrasaṃvargaḥ hāratām pratipadyate | dvicchedāgrarāśibhyām
saha kuṭṭākāreṇa tricchedāgrānayanam | evam caturagrāṇi api svadhiyā abhyūhyāni iti |

[kakṣyāvidhau dvyagrakuṭṭākāraḥ]

atha kakṣyāhargaṇeṣu uddeśakaḥ ā

kakṣyāprakramasaṅkhyayā gaṇitayoḥ śeṣau ravīndvaḥ raveḥ
dvyāṣṭeṣu adbhikṛtādbhikheṣubhuvanacchidrendavaḥ kīrtitāḥ |
nandāṅgāśviniśākarāḥ kṛtihatāḥ samyak sahasrasya te
dvyagram vācyam ahargaṇaḥ kalibhujāḥ yātāḥ ca tatparyayāḥ || 24 ||

nyāsaḥ ā 19350444582raveḥ

49797813966

1269000000 candrasya

3724920000

agrāntaram 18081444582 | ete bhāgahārāgrarāśyoḥ apavartanam prayacchanti |
vedanavartuśūnyayamaiḥ [20694] apavartya sthāpanā | 20694 etaiḥ apavartitā
ravikakṣyā 2406389 | candrasya api 180000 | agrāntaram apavartitam 873753 |

etaiḥ apavartitabhāgahārāgrāntararāśibhiḥ kuṭṭākāranyāyena labdhaḥ rāśiḥ

guṇayamādripuṣkarartuśarāṅgādrīnduyamāḥ, aṅkaiḥ api 2176563723 |

"ūnāgracchedabhājite śeṣam" iti | ayam rāśiḥ ūnāgracchedena anena 180000 bhaktaḥ

śeṣam [3727] | [anena] śeṣeṇa adhikāgracchedaḥ [ayam 2406389] guṇitaḥ jātāḥ

saptodadhiyamāṅgāṣṭhanandāṣṭaśaranandavasavaḥ, aṅkaiḥ api 8958986247 | ayam
rāśiḥ apavartanena anena [20694 guṇitaḥ jā]taḥ
vasvindūdadhibhūtarandhrāgnīndurasayamādrinandāgniśaradhṛtayaḥ, aṅkaiḥ api
185397261395418 | ayam eva adhikāgreṇa yutaḥ
[viyadabhrakhakhā]bdhivasurudrarasāṅgendūdadhiśaradhṛtayaḥ, aṅkaiḥ api
185416611840000 | ayam rāśiḥ dvicchedāgrāḥ | asya bhūdinaiḥ saha
apavartita[khakakṣyayā bhāge kṛte] ahargaṇaḥ labhyate | katham punar khakakṣyāyāḥ
bhūdinasya ca apavartanam ? ucyate ā kakṣyābhiḥ grahānayane khakakṣyāyāḥ
ahargaṇaḥ guṇakāraḥ,
svakakṣyābhūdinasaṃvargaḥ bhāgahāraḥ iti khakakṣyāyāḥ bhūdinānām ca
apavartanena viyadambaratithinandaiḥ labdham khakakṣyātaḥ
kṛtodadhinagaśararāmāgnirasaguṇendavaḥ, aṅkaiḥ api 136335744 | bhūdinebhyaḥ api
śarābdhiyamādrīndavaḥ, aṅkaiḥ api 17245 | anena bhūdinalabdhenā yathā
svagrahakakṣyā guṇitā, ahargaṇāpavartitakhakakṣyābhyāsasya bhāgahārāḥ bhavanti |
pūrvalikhitadvicchedāgrarāśiḥ apavartitakhakakṣyāhargaṇasaṃvargaḥ iti ataḥ
svabhāgahārābhyām
vibhajya labdham sūryācandramasoḥ yātabhagaṇāḥ | raveḥ 3723, candrasya 49777 |
yau atra śeṣau tayoh maṇḍalaśeṣau yathākramaṇa nirdiṣṭau bhavataḥ | asmin eva
dvicchedāgre apavartitakhakakṣyayā vibhakte labdham ahargaṇaḥ rasaviśvāḥ
śatavargaguṇitāḥ, aṅkaiḥ api 1360000 |

uddeśakaḥ ā

kakṣyākhyātavidhikramaṇa gaṇitau śeṣau kalānām kramāt
dvyāṅgeṣu abdhīśīlīmukhatrikanabhobhūtendriyāṣṭyaḥ raveḥ |
candrasya āyutatāḍitāḥ kṛtarasāḥ vasvagnayaḥ sūkṣmakāḥ
vācyāḥ tadbhagaṇādayaḥ dinagaṇaḥ dvyagram ca tābhyām tayoh || 25 ||

nyāsaḥ ā raveḥ 16550354562

49797813966

candrasya api 2438640000

3724920000

atra kuṭṭākārasya yugapat sampādayitum aśakyatvāt pṛthak pṛthak kuṭṭākāreṇa
sūryācandramasoḥ maṇḍalaśeṣau apavartanīyau svacchedābhyām

"adhikāgrabhāgahāram chindyāt ūnāgrabhāgahāreṇa" iti anena krameṇa

ahargaṇānayanam | tat yathā ā raveḥ śeṣabhāgahārau apavartitau ṣaḍbhiḥ ā

2758392427

8299635661

etābhyām apavartitaśeṣabhāgahārābhyām kuṭṭākāraḥ cintyate | tatra bhāgaśeṣam

ṣaṣṭyā saṅguṇayya anena eva apavartitabhāgahāreṇa bhāgam hṛtvā raveḥ liptāḥ

labhyante, liptāśeṣaḥ ca atiricyate | sa likhitaḥ eva | tatra idam cintyate ā ṣaṣṭiḥ kena

guṇitā liptāśeṣam apanīya apavartitabhāgahārasya śuddham bhāgam dāsyati iti | evam

bhāgaśeṣaḥ upalabhyate | sa ca 7377318041 | athavā ṣaṣṭiḥ kena guṇitā ekam apanīya

ṣaḍbhiḥ apavartitabhāgahāreṇa hṛtā śuddham

bhāgam dāsyati iti ekāpanayanakuṭṭākāram api ānīya tena bhāgaśeṣānayanam

liptānayanam ca | ekarūpāpanayanena kuṭṭākāraḥ bhāgalabdham ca ā

8161308400

[59]

anena kuṭṭākāreṇa pūrvalikhitaḥ bhāgaśeṣaḥ labhyate | tataḥ punar api tena

bhāgaśeṣeṇa triṃśatā ca kuṭṭākāraḥ kriyate | triṃśat kena guṇitā bhāgaśeṣam apa[nīya]

ṣaḍbhiḥ apavartitabhāgahārasya śuddham bhāgam dāsyati iti rāśiśeṣaḥ upalabhyate |

sa ca 5502346520 | evam punar api anena kuṭṭākāraḥ kriyate | dvādaśa kena guṇitā

rāśiśeṣam apanīya tasya eva ṣaḍbhiḥ apavartitabhāgahārasya śuddham bhāgam
dāsyati iti maṇḍalaśeṣaḥ upalabhyate | sa ca
3225074097 | ayam apavartitabhāgahārabhājyābhyām utpannaḥ iti ṣaḍbhiḥ guṇitaḥ
prāgupanyastoddeśakamaṇḍalaśeṣaḥ bhavati iti saḥ pūrvalikhitaḥ eva |
ekāpanayanena [kuṭṭākāraḥ] bhāgalabdham ca 7607999356 | bhāgalabdhaiḥ pṛthak
pṛthak rāśibhāgaliptānayanam |

[11]

evam candrasya api śeṣabhāgahārarāśī krameṇa āyutaḡuṇitāṣṭottaraśatena apavartya
sthāpanā ā2258
3449

ābhyām krameṇa kuṭṭākāraḥ pūrvavat | ṣaṣṭyā ca bhāgaśeṣaḥ labhyate, sa ca 2222 |
ekāpanayanena api kuṭṭākāraḥ bhāgalabdham ca
1782

31 |

punar api bhāgaśeṣāpanayanena triṃśatā ca kuṭṭākāram kṛtvā rāśiśeṣaḥ labhyate | sa
ca 304 | ekāpanayanena api kuṭṭākāraḥ bhāgalabdham ca
115

1 |

tataḥ punar api rāśiśeṣāpanayanena dvādaśānām ca kuṭṭākāram kṛtvā maṇḍalaśeṣaḥ
labhyate, sa ca 1175 | ekāpanayanena api kuṭṭākāraḥ bhāgalabdham ca
2012

7 |

atra ca ānītaḥ maṇḍalaśeṣaḥ eva aṣṭottaraśatena āyutaḡuṇitena abhyastaḥ
prāgupanyastoddeśakamaṇḍalaśeṣaḥ bhavati "candrasya āyutatāḡitāḥ kṛtarasāḥ" iti ādi

pūrvalikhitā eva |

evam maṇḍalaśeṣau sūryācandramasoḥ avagamyā "adhikāgrabhāgahāram chindyāt
ūnāgrabhāgahāreṇa" iti anena pūrvakrameṇa gatamaṇḍalāni ahargaṇaḥ ca
pūrvalikhitāḥ eva | athavā yaḥ asau pūrvamaṇḍalaśeṣarāśinā anena krameṇa ānītaḥ
khakhaṣaḍghanena guṇitaḥ svakakṣyābhāgahāreṇa apahr̥taḥ yathāvihitaliptāśeṣarāśiḥ
iti ataḥ idam vicintya[te ā khakha]ṣaḍghanaḥ kena guṇitaḥ sūryācandramasoḥ pṛthak
pṛthak abhivihitaliptāśeṣam apanīya
svakakṣyoktabhāgahārābhyām apahr̥tam pṛthak śuddham bhāgam prayacchati iti evam
kuṭṭākāre kṛte sūryācandramasoḥ pṛthak pṛthak gatamaṇḍalāni tayoh maṇḍalaśeṣarāśī
ca labhyete | tāni maṇḍalāni maṇḍalaśeṣarāśī ca pūrvalikhitāḥ eva |

[kakṣyāvidhau tryagrakuṭṭākāraḥ]

evam tryagrakuṭṭākāraḥ api viganyate | tat yathā ā

uddeśakaḥ ā

tigmāṃśoḥ gaganāgnidasragaganam sūryābdirāmeṣavaḥ
rāmāṅgābdhiviyatkṛṣānudahanāḥ śeṣaḥ smṛtaḥ māṇḍalaḥ |
indoḥ ambaraśūnyavedagaganam rāmābdhidasradvikam
randhrādryambarasaptabhūtayamalāḥ śeṣaḥ guroḥ ucyate ||
vyomābhrābdhiśārthasaptagirayaḥ vasvaṅkaṣaṭṣaṭkakā
bhūtendvaṅkarasāgnidr̥ṣṭanicayaḥ kakṣyābhidhānāt ayam |
tryagrāharganaṃ maṇḍalāni vidhiva[t vācyāni] tatsaṅkhyayā
kuṭṭākāravicitratā parigatā yadi āsmakoktakramāt || 26 ||

nyāsaḥ ā

raveḥ 330463534120230

472332265467510

candrasya 25707922430400

35330866200000

guroḥ 3691566987755400

5602254071175000

atra etayoḥ [ravicanḍrā]grayoḥ antaram

vyomāgnivasunavāṣṭaṣaḍrudrarasaśarabhūtādri-kṛtāambarāgnayaḥ, aṅkaiḥ api

304755611689830 |

[bhāgahārāgrā]ṅām sūnyāṅkaśarayamavasudasrarasanavendubhiḥ apavartanam,

aṅkaiḥ api 196282590 | anena apavartite raveḥ navāṣṭāgnirasāambarābdhiyamāḥ,

aṅkaiḥ api 2406389; candrasya śūnyāambarākāśaviyadaṣṭendavaḥ, aṅkaiḥ api 180000;

agrāntaram apavartitam 1552637 |

etābhyām apavartitabhāgahārābhyām apavartitāgrāntareṇa kuṭṭākāraḥ labdhaḥ

svarāṅgādrirāmāṅgarasādrirasavasulokāḥ, aṅkaiḥ api 3867663767 | ayam

ūnāgracchedena apavartitena apahrtaḥ san aviśiṣṭaḥ svarāṅgādridahanāḥ 3767 | ayam

apavartitādhikāgrabhāgahāreṇa guṇitaḥ bhūyaḥ ca apavartitena

śūnyāṅkaśarayamavasudasrarasanavendubhiḥ [guṇitaḥ] adhikāgreṇa yutaḥ jātaḥ

dvicchedāgrarāśiḥ

sūnyāambarodadhiviyadagniyamākāśaśaraśarādriśūnyendurasāambarāṅgāṅkādri-

svarendavaḥ, aṅkaiḥ api 1779606107550230400 | asya dvicchedāgrasya

trītyacchedāgreṇa saha kuṭṭākāre kriyamāṇe nivṛttakarmacchedayoḥ abhyāsaḥ chedaḥ

bhavati yamarasendumuniśarāśvirasādrijaladhiśara-

munirūpadahanādriśūnyāṣṭāmbaranavamunivasvaṅgāṣṭayaḥ, aṅkaiḥ api nyāsaḥ ā
16687908073175476257162000000 | atra upanyastatṛṭiyacchedena
adhikāgracchedasya bhāgaḥ tatra śūnyam
avaśiṣyate | tat eva śūnyam kuṭṭākāraḥ iti pūrvaniṣpannam dvicchedāgram tryagram tat
pūrvalikhitam evam | tasya khakakṣyotpannayojanānām eva aṅkarāśinaḥ anena
ākāśodadhivasurūpaśikhiśarakṛtam anulokāṅkaravibhāgaḥ 1293144531840 | labdham
ahargaṇaḥ śaravasurūpāṅgādriviśvāḥ 1376185 |

evam ayam kuṭṭākāraḥ vicintyamānaḥ mahodadhijalatarāṇavadaprameyaḥ iti
viramyate |

[ekāpacayena kuṭṭākāralabdhiḥ]

ete grahakuṭṭākārāḥ ślokaiḥ api upanibadhyante | tat yathā ā
bhāskarādiśarīrāya bhāskarāyutatejase |
jagadutpattisaṃhārahetave śambhave namaḥ || 1 ||

kuṭṭākāraḥ ca lābhaḥ ca dvandvataḥ bhagaṇāt itaḥ |
nirdiśyate kramāt atra tadvidām prītaye mayā || 2 ||

[sūryasya]

tigmāṃśoḥ [nayana]nabhorasābdhinandāḥ [94602]
tat labdham bhagaṇabhavam naveśudasrāḥ [259] |
rāśīnām vasunagakham guṇāḥ śivāḥ ca [113078]
lābhaḥ syāt śaraśaśinaḥ adrirāmasaṅkhyā [3715] || 3 ||

rāmādrināganavabhūta[59873]samāṃśakasya
labdhaḥ [atra rudra]viyadaṅkaśarāḥ [59011] pradiṣṭāḥ |
laptaḥ adrivedarasarūpamataṅgagajaḥ [81647] adhaḥ
rūpāṅkadasrabhujagadvikanāgavedāḥ [4828291] || 4 ||

ekādrirandhrakharasāḥ tu [60971] vili[ptikānām
sañjātam eva] guṇakāram ataḥ atra labdham |
śītāṃśurandhrakṛtabāṅaguṇāgniṣaṭka-
candrāśvi[216335491]saṅkhyam anu tasya ca tatparāṅām || 5 ||

dasranāga[munivedapayodhirūpa 144782 m] atra guṇakāram uśanti |
rūpanandajaladhīndunagāṅgadvidvināgaviyadagni[30822671491]m adhaḥ ca || 6 ||

ṣaḍviṃśatiḥ jaladhirandhra[9426]samānasaṅkhyāḥ
jñeyaḥ [prataparabhavaḥ] guṇakārarāśiḥ |
śītāṃśurandhramanunandaśaśāṅkadasra-
vyomābdhisūnyaravayaḥ [120402191491] khalu tatra labdham || 7 ||

ekaḥ eva smṛtaḥ chedaḥ cakrādīnām vivasvataḥ |
prataparāntamā[nānām] khāmbareṣumahībhrataḥ [7500] || 8 ||

[candrasya]

śītaraśmi[bhagaṅaiḥ] prakṛtite
saptarāmavasusṣaṭsvarādrayaḥ [776837] |
labdharāśinicayaḥ vyavasthitaḥ
puṣkarāgnikṛtanāgabāhavaḥ [28433] || 9 ||

rāśitaḥ api rasadasratāpasā
vyomavedagaganāśvinaḥ [2040726] guṇaḥ |
tatra labdhanicayaḥ vikathyate
rudravahnirasanandapannagāḥ [896311] || 10 ||

candrasūryagaganābdhipāvākāḥ [340121]
bhāgaśeṣaguṇakārasamjñitaḥ |
bhūtabāṇaśaracandrakuñjarāḥ
sāgarāmbunivahāḥ ca [4481555] labdhakaḥ || 11 ||

nāgabāṇaśivadasra[21158]sammitaḥ
liptikāsu vigaṇayya kīrtyate |
nandarudragirayaḥ aśvibhūdharāḥ
[aṣṭayaḥ atra 16727119] gaṇitena labhyate || 12 ||

vedaviśvarasarūpa [16134] sammitam
śītaraśmivikalāsamudbhavaḥ |
bāṇarūpaguṇaśakrapāvākāḥ
bhūtaṣaṭkamunayaḥ [765314315] paraḥ smṛtaḥ || 13 ||

tatpareṣu dhṛtibhūtaṣaṭkakāḥ [6518]
nirdīśanti guṇakārasaṅkhyayā |
ṛkṣanandaśaśirāmakuñjara-
vyomabāṇaśaradhārtavaḥ [18550831927] aparāḥ || 14 ||

tatpareṣu parataḥ ca kīrtitāḥ
rāmanandayamadasrakāḥ [2293] kramāt |
rudrabāṇagiridasrasāgarāḥ
bhūtaṣaṭkatithinandavikramāḥ [391565427511] || 15 ||

aṃśāt ārabhya sītāṃśoḥ pañca [5] pañca [5] guṇaḥ paraḥ |
chedaḥ kalpyaḥ kramāt atra dantaśaila[732]samanvitaḥ || 16 ||

[candroccasya]

nandarṣināgāgarasāḥ rasāṣṭa-
prāleyaraśmyadri[718667879]samānasaṅkhyāḥ |
indūcca[kasya guṇakaḥ atra] bhacakradrṣṭaḥ
candrāṅgalokayamadasrayamāḥ ca [222361] labdhaḥ || 17 ||

abdhīśu[dasrāśvinabhaḥ yamendu-]
ṣaṭka[61202254]pramāṇaḥ guṇakārarāśiḥ |
labdhaḥ adrilokāśvinagāśvidasrāḥ [227237]
rāśikramāt atra vigaṇyamāṇaḥ || 18 ||

vedāṣṭabāṇāṅgarasāḥ navāṣṭa-
prāleyaraśmi[18966584]kramasaṅkhyayā uktaḥ |
aṃśakramāt agniyamāṅgasūrya-
sītāṃśudasrāḥ [2112623] gaṇitena labdhaḥ || 19 ||

liptāgataḥ dantanabhodrināga-
vyomeṣavaḥ [5087032] asmin guṇakārarāśiḥ |

nakṣatraṣaṭparvatanandarandhra-
lokāgni[33997627]saṅkhyāḥ kathitaḥ atra labdhaḥ || 20 ||

viliptikāyāḥ śaśisaptadanta-
kṣoṇīdharāḥ [73271] syuḥ guṇakārasaṅkhyā |
lokāṅgadiṅnāgakṣānunanandāḥ
dasrānvitāḥ [29381063] lābham uśanti tajjñāḥ || 21 ||

aṣṭāṅgadhātrīdhararāmananda[93768]-
saṅkhyāsamānaḥ atra hi tatparottham |
tanmātranandāgniśaśāṅkarūpa-
vyomāṅgabāṅśviyamāḥ ca [2256011395] labdhaḥ || 22 ||

pratatpa[rāyāḥ] kramaśaḥ abdhīśaila-
vasvaṅkaṣaṭkendu[169874]samānasaṅkhyāḥ |
labdhaḥ ca rudrāṣṭaśaśāṅkaloka-
śūnyeṣudasrāśviśarābhdhidasrāḥ [245225031811] || 23 ||

rāśyādīnām kramāt [atra chedāḥ kalpyāḥ yathoktavat] |
dvādaśaḥ [12] ca tataḥ pañca [5] [pañca 5 yāvat tu] tatparam || 24 ||

[candrapātasya]

saptādrīcandrāṅganabhoṅgabāṅa-
dasrāṅga[625606177]saṅkhyāḥ guṇakāram āhuḥ |
[lābhaḥ ca pātasya] gaṇeṣu samyak
dasrāśvaśūnyāśvinavapramāṅaḥ [92072] || 25 ||

śītāṃśusūnyābdhikṛśānuṣaṭka-
pañceṣurudram [115563401] pravadanti tajjñāḥ |
tricchidraśūnyābdhinabhaḥ yamāḥ ca [204093]
lābhaḥ [atra] rāśikramasamprabhūtaḥ || 26 ||

śītāṃśusaptāṅgakṛśānuveda-
ṣaṭlokadasrāḥ [23643671] guṇakārabhūtāḥ |
himāṃśunandāṅgayameṣusūryāḥ [1252691]
lābhaḥ anu bhāgakramasaṅkhyayoktam || 27 ||

aṣṭeṣuvasvinduṣaḍekavedāḥ [4161858]
proktāḥ kalānām guṇakārasaṅkhyāḥ |
pañcāgnidasrāambaralokadasra-
viśvaiḥ [13230235] samānam pravadanti labdham || 28 ||
vedāṅkabhūbhṛdyamasaptanāgāḥ [872794]
rāśiviliptāguṇakārayuktyā |
labdhaḥ krameṇa atra nagāambarāṣṭa-
dasrādrivedāṅgarasendavaḥ [166472807] syuḥ || 29 ||

yaḥ tatparebhyaḥ guṇakārarāśiḥ
vasvaṅgaṣaṭsaptakṛśānavāḥ [37668] atra |
labdhaḥ api saptāambarabāṇa[sapta]-
saptāmbarendvagnikṛta[431077507]pramāṇaḥ || 30 ||

nandāgninandavasusṣaṭkaśāśāṅka[168939]saṅkhyam
prataparāṇām pravadanti guṇyam |

ekādribāṇādrinaveṣucandra-

śūnyāambarāṣṭī śaśīnaḥ ca [116001597571] labdhaḥ || 31 ||

bhagaṇānām dvika[2]cchedaḥ rāśīnām dvādaśa [12] ucyate |

aṃśādinicayānām tu pañcakaḥ [5] kathyate budhaiḥ || 32 ||

[bhaumasya]

bhaumasya viśvārkadigaṣṭayaḥ [16101213] syuḥ

bhapyayāṇām guṇakārajātaḥ |

labdhaḥ atra saptāgnisamudraloka-

dasra[23437] pramāṇam kathitam krameṇa || 33 ||

nandābdhiśūnyeṣuśaśāṅkadasra-

vedāgnayaḥ [34215049] asmin guṇakāramānam |

rāśīkramāt lokakṛtāṅgasapta-

nandeṣavaḥ [597643] labdhicayam niruktam || 34 ||

bhāgapramāṇam kṛtaśūnyaveda-

nandenduviśvam [1319404] pravadanti guṇyam |

labdhasya candrāṅkakṛśānucandra-

cchidrāṅga[691391]tulyā vihitā atra saṅkhyā || 35 ||

[laiptaḥ tu] dasrāṅkaśaśāṅkaloka-

ṣaṇṇāgarūpāṇi [1863192] guṇaḥ guṇajñaiḥ |

dr̥ṣṭā atra labdhiḥ tu śaśāṅkaloka-

[saptāambarāṣṭeṣu] gajeṣu [58580731] tulyam || 36 ||

viliptikānām rasaṣaṭkadasra-
pañceṣurūpāṇi [155266] guṇaḥ pratītaḥ |
lābhaḥ śarārthāṅgakṛśānuśūnya-
randhrāśvinandadvika[292903655]tulyam āhuḥ || 37 ||

lokāṅgadasrāṣṭadhṛti[188263]pramāṇam
guṇyam kramāt tatparasaṅkhyayā asmin |
bāṇāgniṣaṭsaptanagāmbarāṅka-
bāṇāgniṣaṭsaptanagāmbarāṅka-
śūnyāgnīśītāmśuyamāḥ ca [21309077635] labdhaḥ || 38 ||

dasrāśvisaptāṣṭakṛta[48722]pramāṇam
prataparāṇām nicayaḥ guṇasya |
rūpeṣuṣaṭkāgninabhośviveda-
vasvaṣṭaśūnyāgniguṇāḥ ca [330884203651] labdhaḥ || 39 ||

maṅḍalānām grhāṇām ca chedaḥ dvādaśakaḥ [12] smṛtaḥ |
pañca [5] pañca [5] pareṣām tu bhāgādīnām iti sthitiḥ || 40 ||

[budhaśīghroccasya]

aṅgādridasrakṣiti[bhr̥dgajeṣu-
lokāśvi 23587276 saṅkhyam śaśi]jasya guṇyaḥ |
bhaparyayāṇām navasūryanāga-
ṣaḍdasra[268129]saṅkhyam kramaśaḥ ca labdhaḥ || 41 ||

rāśikrame[ṇa aṅka]śaśāṅkanāga-
ṣaṅṅandanāgeṣusamaḥ [5896819] guṇaḥ syāt |
saptāṣṭalokābdhinabhassanāga[804387]-
nirdiṣṭasamkhyāḥ vidhivat ca labdhaḥ || 42 ||

bhāgeṣu vedāśvisamudrananda-
bāṇāṣṭacandrān [1859424] guṇakāram āhuḥ |
chidrāgnilokāṅkanabhaḥ aṅgaśaila[7609339]-
samkhyāpramāṇam khalu tatra labdham || 43 ||

siddham kalānām yamabāṇananda-
vedeṣucandrān [154952] guṇakāram āhuḥ |
lābhaḥ śarāṅkāṅgarasābdhiśūnya-
vasvagni[38046695]saṅkhyāḥ gaṇakaiḥ niruktaḥ || 44 ||

rāśiḥ viliptāguṇakārasamjñāḥ
dasrādrīcandrāgnitithi[153172]pramāṇam |
nandādrīcandrāṣṭagirīṣuṣaṭka-
bhūtāśvidasrā [2256578179] vidhinā atra labdhaḥ || 45 ||

uktaḥ guṇaḥ tatparasaṅkhyayā atra
pūrṇāṅkasamskāradhṛtim [184890] vadanti |
candrāṅkaśūnyeṣurasābdhicandra-
lokābdhilokāṣṭi[163431465091]samaḥ ca lābhaḥ || 46 ||

ṣaṭsapṭadasrāṣṭanabhaḥ sarūpam [108276]
prataparāṇām guṇanā atha labdham |

candrāṅkavasveṣuṣaḍekadasra-
ṣaṭpañcadasrābdhiśiloccayā arthān [5742562165891] || 47 ||

viṃśatiḥ [20] ca tathā ṣaṣṭiḥ [60] chedaḥ maṇḍalarāśijaḥ |
bhāgādīnām kramāt pañca [5] pravadanti maṇiṣiṇaḥ || 48 ||

[guroḥ]

aṣṭau guṇavyomakṛśānubhūta-
śūnyaṅgaśailā [76053038] guṇajaḥ samūhaḥ |
pañceṣubhūtādrisudhāmayūkhāḥ [17555]
labdhaḥ guroḥ syāt bhagaṇakrameṇa || 49 ||

vedādridasrāgniśarāśvināga-
dasrā [28253274] guṇaḥ rāśividhānadrṣṭaḥ |
labdhaḥ aṅkatattvāṣṭanaga[78259]pramāṇaḥ
nirucyate asmin gaṇitatprasiddheḥ || 50 ||

nandādrivasvaṣṭanabhaḥ adrivedā [4708879]
rāśiḥ guṇākhyāḥ khalu bhāgajātaḥ |
bhūtāṅkatigmāṃsunavāgni[391295]tulyam
lābhapramāṇam pravadanti tajjñāḥ || 51 ||

saptenduśailāambaralokanāgān [830717]
liptākramāt guṇyam uśanti tajjñāḥ |
nandendudhr̥tyabdhiśaśāṅkavedā [4141819]
lābhaḥ kalānām kathitaḥ viganya || 52 ||

viliptikānām śaśiṣaṭkanāgā
dasrāṣṭaṣaḍbhiḥ [682861] guṇakārajātam |
rūpānkanandādrinagāśviveda-
śūnyāśvinaḥ [204277991] asmin pravadanti labdham || 53 ||

dantānganandādrisudhāmayūkha[179632]-
saṅkhyāḥ guṇaḥ ca atra hi tatparāṇām |
saptāambarādyaṣṭiyamābdhidasrān
dantaiḥ sametān [3224216707] kathayanti labdham || 54 ||

ekāgnirāmeṣudhrīti[185331]pramāṇam
prataparāṇām guṇajā atra labdham |
rūpādriśītāmśunagāṣṭaveda-
vyomānkatanmātranavānkacandrāḥ [199590487171] || 55 ||

maṇḍalānām ca rāśinām chedaḥ dvādaśakaḥ [12] smṛtaḥ |
bhāgaliptādirāśinām chedaḥ pañca eva [5] kathyate || 56 ||

[śukraśīghroccasya]

nandābdhiśūnyāṅakṛtābhraśūnya-
śailā [70046049] bhr̥gūccasya guṇaḥ gaṇānām |
lābhaḥ abdhirāmādrīśivāgni[311734]tulyaḥ
saṅkhyāvidhānakramasaṅkhyayā uktam || 57 ||

pakṣeṣuvedāambaracandraśaila-
nāgāgnayaḥ [38710452] rāśiguṇaḥ pradīṣṭaḥ |

labdhaḥ niśānāthahutāśānāgni-
śailāṅgaśūnyāśvisamaḥ [2067331] samūhaḥ || 58 ||

dasrāpagānāthaśiloccayendu-
[śarābdhiṣaṭ 6451742 saṅkhyā]samaḥ aṃśaguṇyaḥ |
tanmātrabhūtāṅgarasāgniloka-
vyomendavaḥ [10336655] rāśiḥ atha atra labdhaḥ || 59 ||

aṅgāṅgapakṣodadhicandraśakrā [1414266]
rāśiḥ kalānām guṇakārajātaḥ |
[śaśāṅka]lokāṅkaśaśāṅkabāṇa-
cchidreṣulokendu[135951931]samaḥ atra lābhaḥ || 60 ||

aṣṭāśvināgāgnikṛtāṅga[643828]tulyam
prāhuḥ guṇākhyam vikalāsu jātam |
labdhaḥ ca rūpādrivasvadagni-
vedāgniśītāṃsunagāgnayaḥ [3713431271] syuḥ || 61 ||

saṅkhyākramāt tatpararāśiguṇyaḥ
pakṣāṣṭabhūbhrddahanārka[123782]saṅkhyāḥ |
lokāṣṭapakṣāṅkayameṣuṣaṭka-
rāmāṣṭapakṣābdhi[42836529283]samaḥ atra lābhaḥ || 62 ||

prataparāṅām guṇakārarāśiḥ
aṅgakṣamābhrdgaganāṅka[9076]saṅkhyāḥ |
rūpeṣuvasvaṅgaṣaḍadripakṣa-
pañcābdhināgān dhṛtikam ca [188452766851] labdhaḥ || 63 ||

maṅḍalānām sarāśīnām chedaḥ dvādaśakaḥ [12] smṛtaḥ |
śakrāripūjyabhāgādeḥ pañca [5] pañca eva [5] kathyate || 64 ||

[śaneḥ]

rudrāśvi[bhūtāṅganabhognirudrā 113065211]
gu[ṇaḥ pradi]ṣṭaḥ bhagaṇeṣu tajjñaiḥ]
tigmadyuteḥ ātmajalabdharāśiḥ
dasrābhrabāṅāambararātrināthāḥ [10502] || 65 ||

vedāṣṭabhūtāṅkakṛśānurūpa-
candrartavaḥ [61139584] asmin guṇakārarāśiḥ |
rāśīkramāt labdhasamaḥ tu saṅkhyāḥ
saptābdhicandrāṣṭarasā [68147] niruktāḥ || 66 ||

chidrāgnicandrāṅgaśarāṅkanāga-
prāleyaraśmi[18956139]prabhavaḥ guṇākhyāḥ |
aṃśāvadheḥ agnirasāṣṭhaloka-
rāmartavaḥ [633863] lābhabhavaḥ samūhaḥ || 67 ||

saptābdhisailodadhiṣṭakadasrān [264747]
dṛṣṭaḥ samūhaḥ guṇakārajanmā |
liptākramāt atra vigaṇyamānaḥ
rāmāṅgarudrāgniśarāḥ [531163] ca lābhaḥ || 68 ||

śīṭaṃśudasrāambararudranāgā [811021]

rāśiḥ viliptāprabhavaḥ guṇasya |
saptāṣṭanetrāṅkayamāṅgasapta-
nanda[97629287]pramāṇā vihitā atra labdhiḥ || 69 ||

nirdiśyate tatpararāśiguṇyaḥ
sūryāgniśūnyāṅka[niśādhināthāḥ 190312] |
lābhaḥ adriśūnyeṣu[śarāṅga]bhūta-
vedādrirāmāmṛtasanmayūkhāḥ [1374565507] || 70 ||

prataparāṇām navaśūnyabāṇa-
bhūtāṣṭacandrā [185509] guṇanā atha lābhaḥ |
rudrāśvivedāṅkasamudrapakṣa-
cchidrāgniśūnyam phaṇibhr̥tsametam [80392494211] || 71 ||

catuṣkaḥ [4] bhagaṇacchedaḥ rāśīnām dvādaśa eva [12] ca |
chedaḥ krameṇa pañca [5] uktaḥ saurasya lavataḥ sphuṭaḥ || 72 ||

[candrakendrasya]

agnīṣunandāgniśaśāṅkasūrya-
vedāgnayaḥ [341213953] syuḥ bhagaṇotthaguṇyaḥ |
śītāṃśukendrasya guṇāṅkarūpa-
rāmāṣṭalokārka[12383193]samaḥ ca labdhaḥ || 73 ||

tadrāśitaḥ rāmanabhaḥ adrisapta-
dasrāśvivasvadri[78227703]samaḥ guṇaḥ syāt |
labdhaḥ aśvināgāmbaṛapannagāṅga-

śūnyābdhirāmā [34068082] gaṇakaiḥ niruktaḥ || 74 ||

rāmāṅgadasrādribhujaṅgacandra-
ṣaṭkāśvi[26187263]saṅkhyah aṃśakajah guṇah syāt |
rūpāṅgasapteṣugūṇendudasra-
vedāgni[342135761]saṅkhyam pravadanti labdham || 75 ||

liptāgataḥ asmin guṇakārarāśiḥ
vedāśvināgāgninagāgnivedāḥ [4373824[|
pañcendurāmāśviguṇā[ṅganāga-
netrābdhi]lokāḥ [3428632315] khalu tatra labdhaḥ || 76 ||

viliptikānām guṇakārarāśiḥ
saptāgnināgāgniśaśāṅka[13837]tulyah |
nandādrināgasvaraśūnyanāga-
śūnyeṣuṣaṭ[650807879]tulyakam atra labdham || 77 ||

dr̥ṣṭah guṇah tatpararāśilabdhaḥ
śūnyāṣṭanāgāgniravi[123880]pramāṇam |
rudrāambarādryanāgaktāgnirandhra-
bāṅāṅkavedāḥ saguṇāḥ ca [34959346011] labdhaḥ || 78 ||

prataparāṅām jinavahnidasra-
śakrā [142324] guṇah tatra [tu] labdharāśiḥ |
rūpeṣudasrāṅkavāsusvarāśvi-
nāgeṣunāgāṅkanabhaḥ jināḥ ca [24098582789251] || 79 ||

chedaḥ apavartakaḥ jñeyāḥ rāśīnām dvādaśātmakaḥ [12] |
bhāgādīnām kramāt chedāḥ pañca [5] dr̥ṣṭāḥ kramāt budhaiḥ || 80 ||

[adhidivasasya]

randhraśūnyeṣudāsradriṣaṭka[672509]tulyāḥ adhikaḥ guṇaḥ |
labdharāśīḥ kramāt vyom[saptāṅga]āmbaradasrakāḥ [20670] || 81 ||

[avamadivasasya]

candrāgnyambarasaptābdhiyamaṣaṭkaḥ [6247031] avamaḥ guṇaḥ |
labdhaḥ api navavedādriśailarandhrāṅi [97749] kīrtyate || 82 ||

[sūryāpakramasya]

apakramasya saptābdhipuṣkarāṅi [347] guṇaḥ kramāt |
labdharāśīḥ kramāt dr̥ṣṭāḥ [rūpaveda]niśākaraḥ [141] || 83 ||

[adhimāsasya]

yugādhimāsaiḥ municandraloka-
vyomāmbarāṅkaḥ dhṛtayaḥ ca [18900317] dr̥ṣṭāḥ |
guṇyaḥ atra labdhaḥ api śarāṣṭaśūnya-
navendavaḥ [19085] asmin bhagaṇeṣu nityam || 84 ||

śītāṃsurandhrāgninabhaḥśivāśvi-
sūryaiḥ [122110391] samānaḥ guṇakārarāśīḥ |

lokābdhiṣaṅṅandamunīndra[1479643]saṅkhyah
labdhaḥ atra rāśiḥ khalu rāśijātaḥ || 85 ||

rasāgnivasvabdhikṛśānusapta-
vedāśvinaḥ [24734836] syuḥ guṇakārarāśiḥ |
rūpeṣubhūtaikanavāṅkanāgā [8991551]
labdhaḥ krameṇa aṃśakakarmasiddhaḥ || 86 ||

vasvadrivedendragajāgni[3814478]saṅkhyah
liptāsu dṛṣṭaḥ guṇakārarāśiḥ |
nandendunāgādrinavaikaloka-
nāga[83197819]pramāṇam pravadanti labdham || 87 ||

nandābdhipañcāśvimanu[142549]pramāṇam
dṛṣṭaḥ viliptāguṇakārasiddhiḥ |
rudrādrisamskāraśarāṅganāga-
prāleyaraśmim [186548711] pravadanti lābham || 88 ||

saṅkhyā [guṇasya] api ca tatparāṇām
rasā nabhaḥ aṅgābdhikṛśānucandrāḥ [134606] |
lokāṣṭaṣaṅṅandakṛśānudasra-
cchidrāṅgabāṅāḥ sadīśaḥ ca [10569239683] labdhaḥ || 89 ||

pratataparebhyaḥ arkakṛtāgninanda[93412]-
rāśiḥ niruktaḥ guṇakārajātaḥ |
ekāgnibhūtāṣṭa[tribhūpa]nāga-
vyomābhavedābdhi[440081638531]samaḥ atra lābhaḥ || 90 ||

bhagaṇānām sarāśīnām dvādaśa [12] eva apavartakaḥ |
pañca [5] pañca eva [5] śeṣāṇām chedaḥ asmin apavartane || 91 ||

iti bhāskarasya kṛtau āryabhaṭatantrabhāṣye
gaṇitapādaḥ samāptaḥ ||

Kālakriyāpādaḥ

[maṅgalācaraṇam]

sūryendukhāgnimarudapakṣitidīkṣitākhyam
mūrtyaṣṭakam sakalalokahitārthabhāvam |
yaḥ abhūt svayam hi karuṇātanuḥ aprameyaḥ
tasmai namaḥ tribhuvanasthitaye śivāya ||

[kālavibhāgaḥ kṣetravibhāgaḥ ca]

atha gaṇitānantaram kālakriyā prastūyate | atha kaḥ kālaḥ, kā vā kriyā? atra kecit
vadanti ā "kriyāvyatiriktaḥ kālaḥ" | apare ā "kriyā kālaḥ" iti | kriyāvyatiriktaḥ astu kālaḥ
[kriyā vā], kim etena | asmākam tu sūryācandramasoḥ yaḥ paraḥ viprakarṣaḥ saḥ
ardhamāsaḥ | yaḥ ca tayoh sannikarṣaḥ sa māsaḥ | evam dvādaśa māsāḥ saṁvatsaraḥ
iti ādi kālaḥ | kriyā vyāpāraḥ | kālasya kriyā kālakriyā | kālaparijñānārthā kriyā iti yāvat |
sā ca kriyā gatiḥ | tayā kriyayā
kālaḥ jñāyate iti etat pratipādayiṣyati | tat yathā ā

varṣam dvādaśamāsāḥ trimśaddivasaḥ bhavet sa māsāḥ tu |
ṣaṣṭiḥ nāḍyaḥ divasaḥ ṣaṣṭiḥ ca vināḍikā nāḍī || 1 ||

varṣam abdaḥ samāḥ samvatsaraḥ iti paryāyāḥ | ayam varṣaśabdaḥ napuṃsakaliṅgaḥ
samāyām vartate | tasya varṣasya pramāṇam dvādaśa māsāḥ | dvau ca daśa ca
dvādaśa | māsāḥ samvatsarasya śākhāḥ | trimśaddivasaḥ bhavet sa māsāḥ tu | trimśat
saṅkhyā | divasāḥ dināni ahāni iti paryāyāḥ | bhavet syāt | sa yaḥ asau māsāḥ abhihitāḥ
saḥ trimśaddivasaḥ iti arthaḥ | ṣaṣṭiḥ nāḍyaḥ divasaḥ | tasya divasasya ekasya
pramāṇam ṣaṣṭiḥ nāḍyaḥ | nāḍyaḥ ghaṭikāḥ | ṣaṣṭiḥ
ca vināḍikā nāḍī | tasyāḥ nāḍyāḥ pramāṇam vināḍyaḥ ṣaṣṭiḥ | vināḍyaḥ vighaṭikāḥ |

atra ucyate ā "varṣam dvādaśa māsāḥ" iti ādi na ārabdhavyam, lokaprasiddhatvāt |
sarveṣu eva ayam nyāyaḥ lokavedaprasiddhyā aṅgikaraṇīyaḥ | "varṣam
dvādaśamāsāḥ" iti ādi vinā api lakṣaṇena lokaḥ jānīte, tathā ca bhṛtakebhyaḥ
bhuktavetanam dadāti | yadi lokaprasiddham api abhidhīyate tadā atra bahu vaktavyam
jāyate | "nṛṣi yojanam", [gītikāī, 7] "scāṅgulaḥ ghahastaḥ nā" [gītikāī, 8] iti atra
yava-sarṣapa-yūka-likṣā-vālāgra-rathareṇu-trasareṇusthūlasūkṣmaparamāṇūnām
pramāṇam vaktavyam | trairāśike ca anekajanapadavyavahārātmikā paribhāṣā
vaktavyā | atha yadi api lokaprasiddhiḥ aṅgikriyate tathā api tu "vargākṣarāṇi varge"
[gītikāī, 2] iti atra vargāvargākṣarasvaranirūpaṇam vaktavyam eva | kutaḥ?
lokāprasiddheḥ | [yadi evam tadā] vyākaraṇe vargāvargākṣara[svaranirūpaṇam
anartha]kam | na eṣa doṣaḥ | lokaḥ pūrvācāryāḥ abāhyaśāstrāṇām
praṇetāraḥ iti uktam | "vargākṣarāṇi varge" [gītikāī, 2] iti atra
vargāvargākṣarasvaranirūpaṇāyām vyākaraṇam abāhyam śāstram | "gurvākṣarāṇi
ṣaṣṭiḥ vināḍikā" [kālakriyāī, 2] iti atra gurvākṣarāṇām lakṣaṇam vaktavyam | yadi
"varṣam dvādaśa māsāḥ" iti ādi granthaḥ na ārabhyate tadā etat sarvam
lokaprasiddhyā setsyati | tasmāt apratyāyanam eva astu | na eṣa doṣaḥ |

anārabhyamāṅyām asyām paribhāṣyām sāvanasya eva mānasya ete bhedāḥ syuḥ
na sauracāndranākṣatrāṅām,
yasmāt sāvanam eva ekam mānam lokaprasiddham, na sauracāndranākṣatrāṅi | tat
sarveṣu eva māneṣu iyam eva paribhāṣā yathā syāt iti [sūtram ārabdhavyam] |

anyathā hi "ravimāsebhyaḥ adhikāḥ tu ye cāndrāḥ" [kālakriyāī, 6] iti atra
ravibhagaṅānām dvādaśa guṇakāraḥ na labhyeta, "śaśidivasāḥ vijñeyāḥ bhūdivasonāḥ
tithipralayāḥ" [kālakriyāī, 6] iti atra śaśidivasānām triṅśatkaḥ guṇakāraḥ na labhyeta,
"ṣaṣṭiḥ nāḍyaḥ divasaḥ" iti atra api horāśāstrāvirodhena ṣaṣṭiḥ nāḍyaḥ parikalpitāḥ |
anyathā hi icchayā vibhāgaḥ divasasya śakyate parikalpayitum | icchayā vibhāge
parikalpyamāne kaḥ punar horāśāstravirodhaḥ?
ucyate ā

ādyantarāśyorudayapramāṅam dvau dvau muhūrtau niyatam pradiṣṭau |

iti atra dvināḍikaḥ muhūrtaḥ vyākhyāyate | sā ca nāḍikā divasasya ṣaṣṭibhāgaḥ iti |
anyathā parikalpyamāne ayam arthaḥ anyathā syāt |

katham punar divasasya ṣaṣṭibhāgaḥ sādhyate iti atra abhidhīyate ā atra kecit bruvate ā
"suvarṇarajatatāmrāṅām anyatamam pātram ardhavṛttākāram ṣaṣṭipalapānīyādhārakam
pūrakam nīrāvakam vā ghaṭike" iti | na eṣa niyamaḥ | yāvat palāni ṣaṣṭiḥ pānīyam
prasravati āpūryate vā, tāvatā nāḍikākālah iti | prājñāḥ tu na evam iti manyante | katham
tarhi? ahorātraprasrutasya pānīyasya ṣaṣṭibhāgaḥ ghaṭikāpramāṅaḥ iti sthūlaḥ kalpaḥ,
sūkṣmaḥ tu samāyamavanau
nirdiṣṭākārasya śaṅkoḥ ghaṭikācchāyām aṅkayitvā ghaṭikā sādhyate, ghaṭikāchidram ca
chāyākālavaśāt uktyā yojayitavyam || 1 ||

gurvakṣarāṇi ṣaṣṭiḥ vināḍikā ārkṣī ṣaṭ eva vā prāṇāḥ |
evam kālavibhāgaḥ kṣetravibhāgaḥ tathā bhagaṇāt || 2 ||

gurvakṣarāṇi ṣaṣṭiḥ vināḍikā ārkṣī | gurūṇi ca tāni akṣarāṇi ca guvakṣarāṇi, ṣaṣṭiḥ
vināḍikā ārkṣī | yāvatā kālena ṣaṣṭiḥ guvakṣarāṇi paṭhitāni tāvān kālaḥ vināḍīsamjñitah
| "gurvakṣarāṇi ṣaṣṭiḥ vināḍikā" iti anena sarveṣām eva
saurasāvananākṣatracāndrāṇām mānānām vināḍikākālatulyatāyām prasaktāyām
tadviṣayanirūpaṇārtham āha ā ārkṣī | katamā vināḍikā guvakṣarāṇi ṣaṣṭiḥ? ārkṣī, na
śeṣāḥ | ṛkṣāṇi nakṣatrāṇi | nakṣatraśabdena nākṣatram
mānam pariḡrhyate | ṛkṣāṇām ayam kālaḥ ārkṣah | ayam ca kālaḥ
vināḍikābhidhīyamānaḥ strītvam pratipadyate iti strīlīṅganirdeśena vināḍikā iti uktam |

ṣaṭ eva vā prāṇāḥ, prāṇāḥ ucchvāsāḥ, ārkṣyavināḍikāyāḥ pramāṇam | ārkṣyam ca
mānam bhacakrabhramaṇakālam | yataḥ āha ā "prāṇena eti kalām bham" [gītikāī, 6] iti |
ucchvāsakālena bhacakram kalām paryeti, ṛkṣacakram iti arthaḥ | atra ārkṣī vināḍikā ṣaṭ
vā prāṇāḥ [tulyāḥ] | ārkṣībhiḥ vināḍikābhiḥ [daśabhiḥ] ekāmśakaḥ | ataḥ
jyotiścakrasambandhinaḥ prāṇāḥ liptāsaṅkhyāḥ iti prāṇaiḥ jyādikarma pravartate |
anyathā hi "[pha cha] kalārdhajyāḥ"
[gītikāī, 12] iti uktatvāt prāṇaiḥ jyāgrahaṇam na prāpnoti | anyat ca ā sāmānyena eva
"ṣaṭ vā prāṇāḥ vināḍikā" it ucyamāne sarvamānānām eva vināḍikākālasya
tulyatāprasaṅgaḥ | avaśiṣṭānām mānānām vināḍikāyāḥ pramāṇam nāḍikāyāḥ
ṣaṣṭibhāgaḥ eva | na tasyāḥ vināḍikāyāḥ avayavapramāṇābhidhānam kriyate,
prayojanābhāvāt |

gurvakṣareṣu madhyamavṛttigrahaṇam | "gurvakṣarāṇi ṣaṣṭiḥ" iti atra madhyamāyām
vṛttau ṣaṣṭiḥ guvakṣarāṇi vināḍikākālaḥ iti vaktavyam | anyathā hi tīrṣu api vṛttiṣu
aviśeṣeṇa grahaṇam prāpnoti | tat yathā ā drutāyām vṛttau ṣaṣṭiḥ guvakṣarāṇi alpēna

kālena paṭhyante, bilambitāyām mahatā kālena iti, madhyamāyām punar na alpena, na mahatā kālena | tat tarhi madhyamavṛttigrahaṇam kartavyam | katham anucyamānam avagamyate? lokaprasiddheḥ

| tat yathā ā loke anirdiṣṭeṣu kāryeṣu madhyamaprāptiḥ | evam atra api ā "māsānte pakṣasya ante sa hi ākāśe deśe svam miśram vakram kāntam vṛttam pūrṇam candram sattvāt rātrau te kṣutkṣāma prādante śvetaḥ prājyaḥ krūraḥ tasmāt vā ante harmyasya antaḥ saṃsuptasya ekānte kartavyā" | etāni ṣaṣṭiḥ gurvakṣarāṇi vināḍikākālah | ṣaṭ eva vā prāṇāḥ | prāṇāḥ ucchvāsāḥ | te vā ṣaṭ, tasyāḥ eva arkṣyavināḍikāyāḥ kālah | atra api svasthasya aśrāntasya nīrujasya yoginaḥ

prāṇāḥ parigr̥hyante | atra api svasthaḥ na mahatā kālena ucchvasiti | evam [a]śrāntaḥ api | yogī na punar vyānavaśān mahatā kālena ucchvasiti | atra truṭi-truṭyavayavādayaḥ kālāvayavāḥ kasmāt na ucyante? evam manyante ā taiḥ vyavahāraḥ na asti iti | vyavahārārtham ca kālāvayavagrahaṇam iti |

evam kālavibhāgaḥ | evam varṣamāsadivasaghaṭikāprāṇāḥ kālavibhāgaḥ | kim artham idam abhidhīyate ā "evam kālavibhāgaḥ" iti | nanu ca kālavibhāgaḥ nirdiṣṭaḥ | evam tasya nirdiṣṭasya grahaṇam "evam kālavibhāgaḥ" iti | asya anabhidhānāt śakyate jñātum yathā aprapañcitapramāṇaḥ kālavibhāgaḥ iti | na eṣa doṣaḥ | "evam kālavibhāgaḥ" evamprakāraḥ kālavibhāgaḥ iti arthaḥ | prakārārthe tu vyākhyāyamāne anye api kālavibhāgāḥ parigr̥hītāḥ bhavanti

| tat yathā ā pañcasamvatsarāḥ yugam, dvādaśamāsāḥ samvatsaraḥ, dvau māsau ṛtuḥ te ca vasanta-grīṣma-varṣā-śarad-hemanta-śiśirākhyāḥ, ṛtutrayam ayanam, māsārdham pakṣaḥ śuklaḥ kṛṣṇaḥ ca, divasarātricaturbhāgaḥ yāmaḥ, dvināḍikaḥ muhūrtaḥ, iti evam ādi |

kṣetravibhāgaḥ tathā bhagaṇāt | kṣetram bhagolaḥ | tasya kṣetrasya vibhāgaḥ | tathā tena eva prakāreṇa | yathā kālasya vibhāgaḥ, kṣetrasya api bhagaṇāt | kālasya varṣāt prabhṛti vibhāgaḥ uktaḥ, kṣetrasya tu bhagaṇāt prabhṛti pravṛtteḥ | tat yathā ā

dvādaśarāśayaḥ bhagaṇaḥ, rāśiḥ triṃśat bhāgāḥ, ṣaṣṭiḥ liptā bhāgaḥ, ṣaṣṭiḥ viliptā liptā,
ṣaṣṭiḥ tatparā viliptā iti tīdrśaḥ | uddeśakaḥ ā

bhagaṇaḥ rāśiḥ bhāgaḥ kalā ca vikalā ca tatparā ca eva |
kṣetrasya etāḥ samjñāḥ kālavibhāgena tulyāḥ syuḥ ||

[dviyogaparijñānam]

dviyogaparijñānāya āryāpūrvārdham āha ā

bhagaṇāḥ dvayoḥ dvayoḥ ye viśeṣaśeṣāḥ yuge dviyogāḥ te |

bhagaṇāḥ nirdiṣṭāḥ eva grahāṇām gītikāsu | dvayoḥ dvayoḥ iti vīpsāgrahaṇam
tryādinivṛttyartham | ye viśeṣaśeṣāḥ, dvayoḥ dvayoḥ grahayoḥ bhagaṇāṇām ye
viśeṣaśeṣāḥ bhagaṇāḥ tāvantaḥ tayoh yuge dviyogāḥ babhūvuḥ bhaviṣyanti vā |

atra dvayoḥ dvayoḥ bhagaṇaviśeṣāḥ eva tayoh yogāḥ iti katham avasīyate, na punar
tayoh abhyāsaḥ yogāḥ vā? ucyate | tat yathā ā dvau aśvau ca parimaṇḍalārohe
parikalpitaḥ | tatra ekasya kakṣyā ṣaṣṭiḥ dhanuṣām, aparasya triṃśat | tau
pañcadaṇḍagatī | mahati maṇḍale yāvat maṇḍalacaturbhāgam gacchati tāvat alpe
maṇḍale ardham gacchati | yāvat mahati maṇḍale ardham gacchati tāvat sakalam
alpamaṇḍalam gacchati | evam yāvat mahati maṇḍale ekaḥ parāvartaḥ
tāvat alpe maṇḍale parāvartadvayam, tāvati ca tayoh ekaḥ yogāḥ | evam graheṣu api
yojyam | yujyate etat yadi grahāḥ samagatayaḥ | samagatayaḥ grahāḥ iti
pratipādayiṣyati |

uddeśakaḥ ā guroḥ aṅgārakasya ca yuge kiyantaḥ yogāḥ iti |

labdham yogāḥ gaganajala]darasayamāgnirandhraśāsānkāḥ [1932600] | evam
sarveṣām api |

kaḥ punar atra dviyogānām viniyogaḥ? ucyate | yadi caturyugāharganaena iṣṭagrahayoḥ
dviyogāḥ labhyante, [tarhi] kaliyātāharganaena kiyantaḥ iti labdham samatīkrāntāḥ
dviyogāḥ | śeṣam gatagantavyam kṛtvā yugadviyogaiḥ vibhajet | labdham
gatagantavyadivasā iti ekaḥ viniyogaḥ | [śeṣam ṣaṣṭyā saṅguṇya yugadviyogaiḥ
vibhajet labdham ghaṭyādi] yadi caturyugāharganaena iṣṭagrahayoḥ dviyogāḥ labhyante
[tarhi] kaliyātāharganaena kiyantaḥ iti labdham samatīkrāntāḥ
dviyogāḥ | śeṣe dvādaśādiguṇite rāsyādīlabdhiḥ | taiḥ dviyogarāśyādibhiḥ
mandagatigrahaḥ yuktaḥ śīghragatigrahaḥ bhavati | śīghragatiḥ ca dviyogarāśyādihīnaḥ
mandagatiḥ bhavati iti aparāḥ viniyogaḥ | dviyogaiḥ ca rāśyādīn ānīya tayoḥ api
bhagaṇasamāsenā api bhagaṇasamāsaḡatabhagaṇarāśyādīn vidhāya "antarayuktam
hīnam" [gaṇitaī, 24] iti anena ekatra kṣipet ekatra viśodhayet, kṣiptaviśodhitayoḥ
ardham tayoḥ gatabhagaṇarāśibhāgaliptāḥ iti anyāḥ viniyogaḥ
| kuṭṭākāraviniyogaḥ tu pradarsītaḥ eva iti |

[yuge vyatīpātasamkhyā]

vyatīpātajñānāya āryāpaścārdham āha ā

raviśāśinakṣatragāṇāḥ sammiśrāḥ ca vyatīpātāḥ || 3 ||

nakṣatrāṇām gaṇāḥ nakṣatragāṇāḥ | nakṣatrāṇi aśvinyādīni | raviḥ ca śāśī ca raviśāśī |
raviśāśinaḥ nakṣatragāṇāḥ candrādityabhagaṇāḥ iti yāvat | te ca
rasadahanaśikhiguṇaśailākāśayamartavaḥ [62073336] | ete vyatīpātāḥ | sammiśrāḥ ca

vyatīpātāḥ | sammiśrāḥ ekīkṛtāḥ | kena sammiśrāḥ? anyasya aśrutatvāt,
raviśaśibhagaṇāḥ nakṣatragaṇaiḥ eva | te eva vyatīpātāḥ dviguṇitāḥ iti arthaḥ | te ca
dviśailarasartumanukṛtaravayaḥ [124146672] |

atha etau vyatīpātau abhihitau dvādaśaśaḍrāśyātmakau | atra idam praśṭavyam ā [kim
idam] vyatīpātayoḥ udāharaṇam āhosvit lakṣaṇam iti? yadi idam udāharaṇam tadā
sarvam iṣṭam setsyati, tat astu udāharaṇam iti | tat yathā ā candrādityau sphuṭīkṛtau
yadi ekaṭra dvādaśarāśayaḥ tadā vyatīpātaḥ | nanu ca loke dvādaśarāśikaḥ vaidhṛtaḥ iti
prasiddham ? na eṣaḥ doṣaḥ | samjñākṛtaḥ bhedaḥ na phalam prati, yasmāt
vyatīpātasya vaidhṛtasya ca tulyam phalam
bhagavadbhiḥ gargādibhiḥ upadiṣṭam | tau eva sūryācandramasau sphuṭau ekaṭra yadi
śaḍrāśayaḥ tadā api vyatīpātaḥ |

atha vyatīpātasya atītaiṣyaparijñānārtham trairāśīkam ā yadi sūryācandramasoḥ
sphuṭabhuktisamāsenā śaṣṭighaṭikāḥ labhyante, [tadā] anena atītaiṣyeṇa kiyatya iti
labhdam ghaṭikāḥ vighaṭikāḥ ca | athavā atītaiṣyavyatīpātakālikau sūryācandramasau
jñātum icchati, tadā atītaiṣyeṇa saha trairāśīkam ā yadi sūryācandramasoḥ
sphuṭabhuktisamāsenā sūryabhuktiḥ candrabhuktiḥ vā labhyate, [tadā] anena
atītaiṣyasūryācandramasoḥ bhuktisamāsenā kim iti bhuktiḥ
labhyate | tena rahitau sahitau sūryācandramasau vyatīpātakālikau | evam sthūlā
vyatīpātabhuktiḥ | yathā sūkṣmā bhavati tathā pradarśyate | uktam ca ā

nānāyane vyatīpātaḥ tulyāpakramayoḥ tayoh |
uddeśaḥ tasya cakrārdham vikṣepam ca adhikonakam ||
[mahābhāskarīyam, 4.36]

iti | sūryācandramasau nānāyane tulyāpakramau yadā bhavataḥ tadā vyatīpātaḥ,
candrasya vikṣepasahitaḥ rahitaḥ vā apakramaḥ | asmin kila vyatīpātayoge

kṣīrataruśākhāvacchede vigataksīratā || 3 ||

[yuge grahoccanīcabhagaṇāḥ]

uccanīcaparivartajñānārtham āha ā

svoccabhagaṇāḥ svabhagaṇaiḥ viśeṣitāḥ svoccanīcaparivartāḥ |

svoccabhagaṇāḥ svabhagaṇaiḥ viśeṣitāḥ | svakīyam uccam svoccam, tasya svoccasya bhagaṇāḥ svoccabhagaṇāḥ | atra grahāṇām uccadvayam, mandoccam śīghroccam ca | atra katarat uccam parigrhyate? śīghroccam iti āha | mandoccasya yadi api gatiḥ abhyupagatā tathā api yugabhagaṇasya vyavahāraḥ na asti iti śīghroccabhagaṇāḥ eva parigrhyante | svabhagaṇaiḥ viśeṣitāḥ svoccanīcaparivartāḥ | uccabhagaṇānām svabhagaṇānām ca yaḥ viśeṣaḥ sa uccanīcaparivartaḥ | yasmāt nairamṣyāt yāvat nairamṣyam tāvat udayāstamayavakrānuvakraḥ bhavanti iti uccaparivartaḥ parikalpitaḥ | ye niramṣadvayāntare divasāḥ te parivartasya divasāḥ | parivartāḥ grahāḥ ca yugādaḥ meṣāditaḥ pravṛttaḥ | mīnānte śīghrabhagaṇaparisaṁāptiḥ | grahabhogādihikaḥ śīghrabhogaḥ parikalpitaḥ | uccanīcaparivartāḥ | uccaparivartāḥ nīcaparivartāḥ ca tāvantaḥ eva, yasmāt ekasmin niramṣadvayāntareṣu grahasya uccanīcaprāptiḥ sambhavataḥ |

atha kaḥ punar uccaḥ, kaḥ vā nīcaḥ iti? yatra grahāḥ sūkṣmāḥ lakṣyante karṇasya mahattvāt sa ākāśapradeśaḥ uccasaṁjñitaḥ | yatra asau eva grahaḥ mahābimbaḥ lakṣyate karṇasya alpatvāt sa ākāśapradeśaḥ nīcasamjñitaḥ iti |

atha parivartaiḥ api uccam kendram vā ānīyate | katham? yadi caturyugāhargaṇena ete uccanīcaparivartāḥ labhyante, tadā kaliyātāhargaṇena kiyantaḥ iti labdham

samatikrāntāḥ parivartāḥ, śeṣe dvādaśā[diguṇite] rāśyādikaḥ parivartabhogaḥ |
parivartabhogarahitaḥ grahaḥ grahasahitaḥ vā parivartabhogaḥ uccabhogaḥ |
uccabhograsahitaḥ parivartabhogaḥ [parivartabhogarahitaḥ vā uccabhogaḥ]
grahabhogaḥ | parivartabhogaḥ eva kendrabhogaḥ | anyat ca dviyogābhihitena
samānam |

atha "bhagaṇāḥ dvayoḥ dvayoḥ ye viśeṣaśeṣāḥ yuge dviyogāḥ te" [kālakriyāī, 3] iti
asyām eva kārikāyām nanu gataḥ ayam arthaḥ kim atra abhidhīyate?
uccanīcaparivartasaṃjñārtham ayam ārambhaḥ | tatra dviyogamātram eva pratipāditam
| atha ca tat dvayoḥ dvayoḥ grahayoḥ bhagaṇaviśeṣaḥ iti abhihitaḥ | na
uccagrahabhagaṇaviśeṣaḥ iti [pṛthak uktiḥ] |

[aśvayujādyāḥ gurvabdāḥ]

guruvarṣanirūpaṇāya āha ā

gurubhagaṇāḥ rāsiguṇāḥ aśvayujādyāḥ guroḥ abdāḥ || 4 ||

gurubhagaṇāḥ rāsiguṇāḥ | guroḥ bhagaṇāḥ gurubhagaṇāḥ, br̥haspatibhagaṇāḥ iti yāvat
| rāsiguṇāḥ dvādaśaguṇāḥ iti yāvat | aśvayujādyāḥ guroḥ abdāḥ | aśvayuk abdaḥ, ādau
bhavati [iti] ādyaḥ, aśvayuk ādyaḥ yeṣām te aśvayujādyāḥ | guroḥ abdāḥ guroḥ
saṃvatsarāḥ iti arthaḥ | te ca aśvayuk-kārtika-mārgaśīrṣa-pauṣa-māgha-phālguna-
caitra-vaiśākha-jyeṣṭha-āṣāḍha-śrāvaṇa-prauṣṭhapadākhyāḥ | atra trairāśīkam ā yadi
caturyugāharganena ete guroḥ abdāḥ

vasuvasurasākāsamunidahanakṛtāḥ [4370688] [labhyante, tadā] kaliyātāharganena
kiyantaḥ iti | labdhāḥ samatikrāntāḥ samāḥ | labdhāsu samāsu dvādaśabhakte, śeṣāḥ
aśvayujādyāḥ samāḥ | katham idam vijñāyate aśvayujādyāḥ samāḥ iti ? ucyate ā

"aśvayujādyāḥ guroḥ abdāḥ" iti vacanāt | nanu tat eva vacanam asmābhiḥ coditam
parihāraḥ api asmābhiḥ ucyate | yasmāt yugādau aśvinyām
amarapatigururudayaśikhariśikharamadhirūḍhaḥ tasmāt aśvayujādyāḥ guroḥ samāḥ
|

uktam ca ā

yasmin udeti nakṣatre pravāsopagataḥ aṅgirāḥ |
saṃvatsaraḥ tadṛkṣādiḥ bārhaspatyaḥ pragaṇyate ||

iti |

atha vasuvasurasākāsamunidahanakṛtasaṅkhyaiḥ [4370688] trairāśikena bṛhaspatiḥ api
ānīyate | katham? yadi caturyugāharganeṇa vasuvasvādayaḥ bṛhaspatirāśayaḥ
labhyante, [tadā] kaliyātāharganeṇa kiyantaḥ iti labdhāḥ rāśayaḥ | śeṣe
triṃśadādiguṇite bhāgaliptā[dayaḥ] | evam idam arthāt āpannam bhavati | ye
samatikrāntāḥ guroḥ rāśayaḥ te samatikrāntāḥ guroḥ aśvayujādyāḥ saṃvatsarāḥ, śeṣe
ca vartamānaḥ iti |

atha vasuvasvādayaḥ guroḥ saṃvatsarāḥ iti abhidhīyante | nanu ca taiḥ
yugasamvatsaraiḥ tulyaiḥ bhavitavyam? na iti āha | ye yugasamvatsarāḥ te sauryeṇa
mānena dṛṣṭāḥ, am ca ye guroḥ abdāḥ te gurumānena | ttat eva yugam sauryeṇa
anumīyamānam gaganajaladabindume[gha]yamahutāśakṛta [4320000] saṅkhyam | tat
eva bārhaspatyena vasuvasvādi [4370688] saṅkhyam | bārhaspatyābdam bṛhaspateḥ
rāśibhogāḥ iti na sauryabārhaspatyau tulyau iti || 4 ||

[sauracāndrasāvananākṣatramānāni]

saura-cāndra-sāvana-nākṣatramānapradarśanārtham āha ā

ravibhagaṇāḥ ravyabdāḥ raviśāśiyogāḥ bhavanti śāśimāsāḥ |

ravibhūyogāḥ divasāḥ bhāvartāḥ ca api nākṣatrāḥ || 5 ||

ravibhagaṇāḥ ravyabdāḥ | raveḥ bhagaṇāḥ, ravibhagaṇāḥ, ravyabdāḥ, ravivarṣāṇi iti
yāvat | ye eva ravibhagaṇāḥ te eva ravyabdāḥ | tathā idam anuktam api gamyate
ravirāśi-bhāga-liptā ravimāsa-divasa-nāḍyaḥ iti | yasmāt dvādaśarāśayaḥ bhagaṇaḥ,
triṃśadbhāgā rāśiḥ, bhāgaṣaṣṭyavayavaḥ liptā, ṣaḍrāśayaḥ ayanam uttaram dakṣiṇam
ca makarakulīrāditaḥ iti | katham idam avasīyate makarakulīrāditaḥ iti na punar
dhaniṣṭhādeḥ āśleṣārdhāt iti, yasmāt uktam
ā

ardhāśleṣāt śraviṣṭhādeḥ pravṛtte dakṣiṇottare |

kṣemasasyasubhikṣākhye tu ayane gharmatejasaḥ || iti |

atra ucyate ā śrutyoḥ bhinnavākyatā | śakyate eva tat vaktum, adṛṣṭārthatvāt |
"śrutiyarthānuṣṭhānaphalasya sarvaśākhāpratyayam ekam karma" iti | śrutismṛtyoḥ
punar bhede yā ca smṛtiḥ pratyakṣāviruddhā sā parigrhyate | iyam asmākam smṛtiḥ
pratyakṣāvyaabhicāriṇī, yataḥ pratyakṣeṇa eva uttaradakṣiṇapravṛttiḥ
makarakarkaṭāditaḥ eva upalakṣyate | katham? yasmāt dhanuṣaḥ ante makarādīsthite
vidhvastāśeṣadhvāntasaṃghāte bhagavati bhāskare dinamadhyamgate
sarvamadhyāhnacchāyābhyaḥ mahatī madhyāhnacchāyā lakṣyate | sā ca krameṇa
apacīyamānā makarāditaḥ eva, na śraviṣṭhādeḥ | yat ca karkaṭādau
sarvamadhyāhnacchāyābhyaḥ svalpīyasī madhyāhnacchāyā, sā ca krameṇa
upacīyamānā karkaṭāditaḥ eva, na āśleṣārdhāt iti ataḥ pratyakṣasiddham ayanam |

athavā ayam anyārthaparaḥ eva granthaḥ | karkaṭādeḥ dakṣiṇāyanam makarādeḥ ca
uttarāyanam iti etasya abhyupagamāt eva ucyate ā yadā bhavagān bhāskaraḥ
ardhāśleṣāt dakṣiṇam mārgam pravartate punar vasvoḥ caturthāṃśadim [arthāt
karkaṭādim] parityajyate tadā kṣemasasyasubhikṣāḥ bhavanti | yadā ca makarādim
parityajya śraviṣṭhādeḥ uttaram [mārgam] pratipadyate tadā ca tatphalārthatvam iti |
atha ayam vivasvān katham evam pravartate iti?

ucyate ā grahāṇām dvayī gatiḥ, saṅkhyānugatā autpātikī ca | yadā autpātikī gatiḥ evam
prakārā bhavati tadā kṣemasasyasubhikṣākhye ayane [bhavataḥ] | yadā punar
karkaṭamakarādim aprāptvā eva dakṣiṇottarapravṛttinivṛttī bhavataḥ tadā akṣemā
asasyā asubhikṣā iti etat pradarśayati |

api atra aviditaparamārthāḥ romakāḥ paṭhanti ā

vasudaivādisārpārdhāt ayanam munayaḥ jaguḥ |
mṛgakarkyāditaḥ drṣṭam katham tat hi gateḥ vinā ||

iti ādigranthena | kṣudravidrāvaṇopanyāsakrameṇa yugabhagaṇān āhuḥ ā

tasmāt atra viyadrudrakṛtanandadhṛtīḥ (1894110) yugam |
bhagaṇān saptaviśvākhyānādityāntyotkramāt kramāt || iti |

atra katham idam ghaṭate yadi utkrameṇa kramāt vā punar vasvoḥ meṣādeḥ api
dakṣiṇāyanam pravartate na karkaṭādaḥ eva? tathā ca varṣāṛtuḥ meṣādeḥ pravarteta
[makarādeḥ] vasantaḥ | tathā ca kālaviṇyāsaḥ prasajyeta | evam ca śrutyarthaḥ na
anuṣṭhitaḥ bhavati | "vasante yajeta", caitravaiśākhau vasantaḥ, "madhuḥ ca mādhaveḥ
ca vāsantikau ṛtū" [taittirīyasamhitā, 4.4.11] | tathā ca "śaradi vājapeyena yajet",

aśvayukkārtikau śarat, "iṣaḥ ca ūrjaḥ ca śāradau
ṛtū" [taittirīyasamhitā, 4.4.11] iti | idam ca jyotiṣām ayanam aṅgam vedasya | tasmāt na
ayanasya gatiḥ | makarakarkaṭāditāḥ ayanam iti | sarvasiddhāntaguruḥ ācāryalāṭadevaḥ
āha ā

makarādau udagayanam dakṣiṇam ayanam ca candrabhavanādau |

iti |

ṛtuniścayāya āha ā

ṛtavaḥ śiśira-vasanta-grīṣma-ghanāgama-śarad-himāgamanāḥ |
makarāt rāśidvayagatadinakarabhogasthitisamānāḥ ||

iti |

anyat ca ā apakramavṛddhiḥ dhanuḥ mithunānte eva iti | rātridivasayoḥ mahatī vṛddhiḥ
makarakarkaṭādau eva, na anyataḥ eva iti | pratyakṣasiddham idam iti | ataḥ
ayanayugabhagaṇaparikalpanā mudhā |

atha idam praṣṭavyam ā sphuṭagatyā parigahyante āhosvit madhyamagatyā iti | yadi
madhyamagatyā, [tadā] yāni sauryamānābhīhitāni prayojanāni tāni madhyamagatyā
prāpnuvanti, sphuṭagatyā ceṣyante | kāni punar tāni prayojanāni iti? ucyate ā

vāyoḥ mūrccchanam abhrāṇām utpattiḥ cakṣuṣoḥ balam |

śītoṣṇavarṣaprāptiḥ ca prasādaḥ salisasya ca ||

sattvānām madalābhāḥ syuḥ ārtavaḥ ca api yoṣitām |
phalapuṣpodgamam ca eva patrāṅkuravirohaṇam ||

ayanānā[m ṛtūnām] ca muhūrtānām ca darśanam |
pariveṣaparīdhānam paridhīnām tathā eva ca ||

gandharvanagarāṇām ca tathā indradhanuṣām api |
ulkānām aśanīnām ca sandhyayoḥ vidyutām tathā ||

bhūrathābhraninādānām dhiṣṇyānām patanasya ca |
jyotiṣām varṇabhedasya grahāṇām ceṣṭitasya ca ||

agneḥ auṣṇyasya śaktyoḥ ca vilayasya udbhavasya ca |
sauram mānam vijānīyāt pravartakanivartakam ||

iti ādi prayojanāni |

yadi sphuṭagatyā tat etāni prayojanāni parigrhītāni bhavanti, idam tu na siddhyati
adhikāvamānām grahaṇam | yasmāt adhikāvamānām grahaṇam madhyamena mānena
| atha katham sphuṭārtham vacanam madhyamagatipratipattaye bhaviṣyati | atha
madhyamagatipratipattaye sphuṭārtham katham iti | na eṣaḥ doṣaḥ | "śalyartham kulyāḥ
praṇīyante, tābhyaḥ ca pānīyam pīyate, tāsū ca upasprśyate" [aṣṭādhyāyī, 1.1.22
pātañjalabhāṣyam] iti siddham | etat ubhayagrahaṇāt

ubhayam atra parigrhyate iti madhyamagatyā sphuṭagatyā ca | madhyamagatyā
adhikāvamānām grahaṇam siddham, sphuṭagatyā ca saṃhitākārābhihitāni prayojanāni |

raviśaśiyogāḥ bhavanti śaśimāsāḥ | raveḥ śaśinaḥ ca yogāḥ raviśaśiyogāḥ | bhavanti

śaśimāsāḥ | ye yuge raviśaśiyogāḥ abhihitāḥ te śaśimāsāḥ | te ca prāg yathā siddhyanti
tathā vyākhyātāḥ | śaśimāsaiḥ śaśidivasaghaṭikāḥ vyākhyātāḥ | śaśimāsena kāni punar
prayojanāni?

darśam ca paurṇamāsam ca tatthejyādyāḥ kriyā bhuvi |
parvāṇām ca parijñānam tithīnām pratyayaḥ tathā ||
prābalyam auśadhīnām ca rasānām vyaktiḥ eva ca |
pūraṇam hīnatā ca indoḥ tathā eva lavaṇāmbhasaḥ ||
garbhāṇām jīvanam ca api tathā api ayanam eva ca |
rāhoḥ āgamanaprāptiḥ [ca] aindavam mānam āśritāḥ ||

evam ādīni prayojanāni |

ravibhūyogāḥ divasāḥ | raveḥ bhuvaḥ ca yogāḥ ravibhūyogāḥ | ye yuge ravibhūyogāḥ te
yuge bhūdivasāḥ | bhūdivasaḥ nāma raveḥ ardhodayāt prabhṛti punar ardhodayam iti |
sāvanaḥ divasaḥ bhūdivasaḥ iti ucyate | romakaiḥ sa eva bhūdivasaḥ ravyudayaḥ iti
saṃjñitāḥ | kāni punar sāvanamānasya prayojanāni?

yajñakālaparijñānam yajñeṣu savanāni ca |
vrataḥ dīkṣaṇakālaḥ ca cūḍopanayanāni ca ||
āyusām ca api nirlekhā prayogāṇām ca vṛddhayaḥ |
grahacāraparijñānam ādeśagamanāni ca |
yāni ca api evam ādīni saṅkhyoddiṣṭāni tāni vai |
sāvanena eva mānena gaṇyante iti niścayaḥ ||

etāni prayojanāni |

bhāvartāḥ ca api nākṣatrāḥ | bhānām āvartāḥ bhāvartāḥ, bhacakrabhramaṇāni | tat ca
bhacakram kim ādiḥ iti etat vicāryam | yadi meṣādiḥ syāt [tadā] meṣādistiche savitari
savitr̥bhacakrādyoḥ yugapat udayaḥ, dvitīyaḥ punar anudite eva savitari
bhacakrādyudayaḥ, na ca bhacakrādidvayodayāntare ṣaṣṭiḥ nāḍyaḥ | tathā ca "prāṇena
iti kalām bham" [gītikāī, 6] iti cakraliptānām ahorātraghaṭikāpramāṇalīptānām ca tulyatā
na upapadyate, yasmāt apūrṇe eva ahorātre
bhacakrādiḥ udeti | yadā punar ādityodayaḥ bhacakrādiḥ parigr̥hyate tadā
ahorātraprāṇāḥ svadeśarāśyudayaprāṇatulyāḥ | te ca khakhaṣaḍghanatulyāḥ |
bhacakraliptāḥ ca tāvatyaḥ iti etat upapannam |

anyat ca ā udayalagnavidhiḥ sūryāt eva pravartate, audayikāt ca raveḥ | sa ceṣṭakāle
svābhīṣṭakālāditya[rāseḥ vicārya]māṇaḥ yāvat punar udayaḥ iti tāvat na antaram
vidadhāti | tasmāt ravyudayaḥ eva bhacakrādiḥ, vyavahāraprasiddhyartham | yadi evam
grahabhuktarāśayaḥ ravyākrāntarāśipradeśāt eva prāpnuvanti? na eṣaḥ doṣaḥ,
"budhāhnyajārkodayāt ca laṅkāyām" [gītikāī, 4] iti eṣām ajādinirūpaṇāt | kubhagaṇāḥ ca
yugādyantayoḥ ajārkodayāt eva pratiparisamāptāḥ
iti teṣām ca ajāditā siddhā | te eva yugabhacakrāvartāḥ nākṣatradivasāḥ bhūdivasāḥ iti,
divasagrahaṇānuvartanāt | ke punar te bhāvartāḥ? ye kubhagaṇāḥ, "ku niśibuṅḷṛṣkhr̥"
[1582237500] iti gītikāsu [gītikāī, 3] uktāḥ | katham ete kubhagaṇāḥ bhāvartāḥ iti uktāḥ?
bhacakraprativaddhāni nakṣatrāṇi | tasya pravahākṣepāt aparām diśam āsādayanti |
nakṣatrāṇi bhuvam svagatyā prānmukham bhramantīm iva paśyanti iti anayā gatyā
bhavaḥ bhagaṇānirdeśāḥ | tena uktam
ā "bhāvartāḥ ca api nākṣatrāḥ" iti | anye punar "kva āvartāḥ ca api nākṣatrāḥ" iti
paṭhanti | teṣā pāṭhāt eva hi sarvam upapannam |

atha anye punar anyathā varṇayanti ā

ddarśāt darśaḥ cāndraḥ triṃśat divasāḥ tu sāvanaḥ māsaḥ |
sauryaḥ arkarāśibhogaḥ nākṣatraḥ ca indumaṇḍalakam ||
[lāṭadevasya kṛtitah]

darśāt darśaḥ cāndraḥ iti sūryācandramasoḥ yaḥ paraḥ sannikarṣaḥ sa darśaśabdena
ucyate, sa ca tayoh yogaḥ | "raviśaśiyogāḥ bhavanti śaśimāsāḥ" iti tulyam lakṣaṇam |
triṃśat divasāḥ tu sāvanaḥ māsaḥ iti etat api "ravyudayāḥ triṃśat " iti tulyam | sauryaḥ
arkarāśibhogaḥ iti "ravibhagaṇāḥ ravyabdāḥ", "raveḥ rāśayaḥ api ravimāsāḥ" iti etat api
tulyam lakṣaṇam | "nākṣatram ca indumaṇḍalakam" iti indoḥ maṇḍalam nākṣatraḥ
māsaḥ iti | tatra pratyaham yaḥ candrabhogaḥ
sa tanmāsāvayavaḥ iti |

nakṣatrāṇi api vibhajyante | tat yathā ā yaḥ candrabhagaṇasya triṃśadbhāgaḥ sa
nākṣatraḥ divasaḥ | evam navanakṣatradāśabhāgaḥ nākṣatraḥ divasaḥ iti etat
abhinnam lakṣaṇam |

asmākam ācāryeṇa svatantrāntarāvairuddhaprakriyāpratipādanārtham idam uktam
"bhāvartāḥ ca api nākṣatrāḥ" iti | kā ca svatantrāntaraprakriyā? "prāṇena eti kalām
bham" [gītikāī, 6] iti, prāṇena kalām bham gacchati iti jyotiścakraliptānām
bhāvartaprāṇānām ca tulyatve jyādayaḥ vidhayaḥ siddhyante, na anyathā iti iyam
prakriyā | yeṣām ca "nākṣatram ca indumaṇḍalakam" iti lakṣaṇam, taiḥ
samhitākārābhihitaprayojanasiddhyartham uktam | atra ekena lakṣaṇena
prayojanasya aparigrahāt lakṣaṇadvayam idam iṣyate | katham? tatra āvṛttiḥ ekaśeṣaḥ
iti, bhāvartaśabdasya ekaśeṣavyākhyānāt bhāvartāḥ ca bhāvartāḥ ca, bhāvartāḥ | bhāni
jyotīṃṣi aśvinyādīni | teṣām āvartāḥ bhāvartāḥ, bhāparyayāḥ iti arthaḥ | paryayaḥ ca
nakṣatrāṇām candraviṣayaḥ eva parigrhyate, lokavyavahārāt | lokaḥ hi
candrākrāntanakṣatraiḥ eva vyavaharati | athavā anyārtham prakṛtam anyārtham api

bhavati, "śālyartham kulyāḥ praṇīyante, tāsū ca upaspr̥śyate"

[aṣṭādhyāyī, 1.1.22, pātañjalamahābhāṣyam] iti | athavā "bhāvartaḥ ca nākṣatraḥ" iti ekavacanena siddhe "bhāvartāḥ ca nākṣatrāḥ" iti bahuvacananirdeśam kurvan ācāryaḥ jñāpayati nākṣatrasya anekalakṣaṇam iti | athavā cakāraḥ atra prayuktaḥ, na tena atra kaścit arthaḥ sādhyate, atha ca prayuktena manyāmahe nākṣatrasya anekam lakṣaṇam iti | tat ca anekam lakṣaṇam yathā vyavasthitam tathā vyākhyātam iti ataḥ lakṣaṇadvayam api svasiddhāntasiddham |

atha nākṣatrasya mānasya kāni prayojanāni?

saṃvatsarāṇām māsānām ṛtūnām parvaṇām tathā |
ayanānām ca sarveṣām samāptipratipattayaḥ ||
śubhāśubham ca lokānām mānam unmānam eva vā |

iti evamādīni prayojanāni |

atha iyam uktiḥ vāgvāgurā kṣudraidrāvaṇaparā nākṣatramānapradarśitaprayojanaiḥ lakṣyate "saṃvatsarāṇām māsānām ṛtūnām" iti | saṃvatsarāṇām tāvat pratipacchedanimittam nākṣatram [na] bhavati, yataḥ saṃvatsaraḥ śāstre caitraśuklādeḥ pravartate | sa ca caitraśuklādiḥ cāndreṇa upalakṣyate | saṃhitākārāṇām ca bṛhaspaticāre yaḥ saṃvatsaraḥ bṛhaspateḥ nakṣatrodayāt pravartate ā

yasmin udeti nakṣatre pravāsopagataḥ aṅgirāḥ |

iti | māsānām api na bhavati | yasmin kṛttikābhiḥ yutaḥ candramāḥ, asmin māse ardhmāse ca iti kārtikaḥ māsaḥ | sa candranakṣatrayogaviśeṣaḥ cāndraḥ

mānaviśeṣaḥ | ṛtūnām ayanānām [ca jñānam] sauryeṇa mānena iti pradarsitam eva
asmābhiḥ | tasmāt etat na nākṣatramānam | yaiḥ "nākṣatram ca indumaṇḍalakam" iti
asya anuvartanāt "bhāvartāḥ ca nākṣatrāḥ" iti asya śabdārthavyākhyāne
naikaśeṣabahuvacananirdeśaḥ [kṛtaḥ] "ca"-śabdāt iti budhaiḥ eva viditaparamārthaiḥ
mukham āyāsitam | tasmāt asmākam ācāryeṇa atīndriyārthadarśinā abhihitam
ācāryāryabhaṭena tat eva nākṣatramānam | tasmāt "iyam uktiḥ vagvāgurā
kṣudravidrāvaṇaparā nākṣatramānapradarśitaprayojanaiḥ lakṣyate" iti suṣṭhu uktam |
atha etāni saurya-sāvana-cāndra-nākṣatrāṇi mātāni madhyamagatyā pratipāditāni |
tatprayojanārtham sphuṭagatyā pratipattavyāni iti pradiṣṭam | ācāryalāṭadevena tu
sphuṭagatyā eva pratipāditāni ā

darśāt darśaḥ cāndraḥ triṃśat divasāḥ tu sāvanaḥ māsah |

iti ādigranthena iti |

atra ca ayam praśnaḥ ā "avamādhimāsakaiḥ vinā dyugaṇam" iti | yātavarṣāṇi māsikṛtya
vartamānamāsaiḥ saṃyojya trairāśikam ā yadi yugaravimāsaiḥ yugacāndramāsāḥ
labhyante, [tadā] etaiḥ [raviḥ] māsaiḥ kiyantaḥ cāndramāsāḥ iti, labdham cāndramāsāḥ |
te triṃśadguṇāḥ vartamānatithiyuktāḥ kāryāḥ | tataḥ trairāśikam ā yadi
yugacāndradivasaiḥ yugāhargaṇaḥ labhyate [tadā] etaiḥ cāndradivasaiḥ kim iti,
ahargaṇaḥ labhyate | tatra ekaḥ prakṣepaḥ | atha kaḥ
ca asau ekaḥ prakṣepaḥ? ucyate ā yaḥ asau labhyate ahargaṇaḥ sa atītaḥ | śeṣaḥ
vartamānaḥ | vartamānena ahargaṇaḥ bhavati iti ekaḥ prakṣepaḥ | "tena
divākaroḍupau" iti etat uttaratra vakṣyate | tābhyām sphuṭaparvadarśanam iti |

candrādityābhyām vinā sphuṭatithyānayanam | tat yathā ā "[yadi] yugāhargaṇena
candravarṣāṇi vasumunigiriyamaviṣayakṛtaveda [4452778] tulyāni labhyante, tadā

anena iṣṭāhargaṇena kiyanti iti varṣāṇi labhyante | śeṣe dvādaśā[di]guṇite māsa-divasa-ghaṭikā-vighaṭikāḥ ca labhyante | evam madhyamā tithiḥ bhavati | atha śāśyuccanīcaparivartaiḥ trairāśikam ā yadi yugāhargaṇena śāśyuccanīcaparivartāḥ labhyante, [tadā] anena iṣṭāhargaṇena kiyantaḥ iti, atītāḥ parivartāḥ labhyante | śeṣe dvādaśādiguṇite rāśyādayaḥ labhyante | trirāśirahitam śāśikendram | tataḥ phalam śāśibhuktiḥ ca ānīyate | phalasya dvādaśabhiḥ bhāge nāḍyaḥ vināḍyaḥ ca labhyante | tāvat madhyamatithau yathānyāyena ṛṇam dhanam vā kartavyam | sūryānayanārtham trairāśikam ā yadi yugāhargaṇena vasumunigiriyamadahanendu[132778]tulyāni adhikavarṣāṇi labhyante, tadā kaliyātāhargaṇena kiyantaḥ iti, varṣa-māsa-divasa-ghaṭikāḥ labhyante | pratirāśitamadhyamatithivarṣādibhyaḥ te śodhyāḥ śeṣam ravivarṣādayaḥ | tebhyaḥ māsadvayam [2] ca aṣṭādaśa [18] ca divasān apanīya ravikendram bhavati | tena phalānayanam bhaktyānayanam ca | phalasya dvādaśabhiḥ bhāge labdhāḥ nāḍyaḥ vināḍyaḥ ca | tithau eva ṛṇadhanavyatyāsam kuryāt | atha kim iti ṛṇadhanavyatyāsaḥ kriyate? ucyate ā sūryasya yat ṛṇam tat titheḥ upacayaḥ, dhanam yat tat apacayaḥ iti | evam tithiḥ niṣpannā bhavati | tataḥ idam kriyate ā yadi madhyamabhuktyantareṇa ṣaṣṭiḥ nāḍyaḥ labhyante, [tadā] sphuṭagatyantareṇa kiyatya iti, gatyantaranāḍyaḥ upalabhyante | tābhiḥ trairāśikam ā yadi etābhiḥ gatyantaranāḍikābhiḥ ṣaṣṭiḥ nāḍyaḥ labhyante, [tadā] anena tithiśeṣeṇa kiyatya iti tithināḍyaḥ vināḍyaḥ ca labhyante | athavā trairāśikadvayam bhaṅktvā idam karma kriyate | madhyamabhuktyantareṇa tithiśeṣam guṇayitvā sphuṭabhuktyantareṇa bhāgasiddham ghaṭikāvighaṭikāḥ ca | katham punar trairāśikadvayam bhinnam? ucyate ā yadi madhyamabhuktyantareṇa ṣaṣṭiḥ nāḍyaḥ labhyante [tadā] sphuṭabhuktyantareṇa kiyatya iti ekam trairāśikam | punar ā labdhena phalena yadi ṣaṣṭiḥ nāḍyaḥ, [tadā] anena tithiśeṣeṇa kiyatya iti | yaḥ pūrvatrairāśike guṇakāraḥ sa iha arthāt bhāgahāraḥ iti | atha deśāntaraviśeṣeṇa ca akṣaviśeṣeṇa ca yat phalam upajāyate tat api yuktyā yojayitavyam iti || 5 ||

[adhimāsāvamadināni]

adhimāsāvamaparijñānāya āha ā

adhimāsakāḥ yuge te ravimāsebhyaḥ adhikāḥ tu ye cāndrāḥ |

śaśidivasāḥ vijñeyāḥ bhūdivasonāḥ tithipralayāḥ || 6 ||

ye ravimāsebhyaḥ adhikāḥ cāndramāsāḥ te yuge yuge adhimāsāḥ bhavanti, ye ca
bhūdivasonāḥ śaśidivasāḥ te yuge tithipralayāḥ | pralayaḥ vināśaḥ | tithīnām pralayāḥ
tithipralayāḥ | avamarātrāṇi iti arthaḥ | evam bruvatā etat pradarśitam bhavati ā
sauryacāndrāntaram adhimāsabhogaḥ, sāvamam sāvanam cāndram mānam iti |
adhikāvamayoh madhyamagatyā upacayaḥ iti uktam | yadi sphuṭagatyā syāt tadā
dvitīyāyām pravṛttāyām pratipat tṛtīyā [ni]vṛttipravṛtī
na staḥ | adhimāsāvamaiḥ kim nirvartyate? ahargaṇaḥ iti āha | na etat asti, vinā api
adhimāsāvamaiḥ ahargaṇasya nirvartitavāt | na eṣaḥ doṣaḥ, upāyāntaratvāt |
adhimāsāvamaiḥ vinā ahargaṇasya sādhanam pradarśitam | yena ca adhimāsāvamaiḥ
ahargaṇaḥ labhyate sa upāyaḥ pradarśayitavyaḥ | na etat asti, ekopāyatvāt | sa ca
ayam ca ekaḥ upāyaḥ | katham ekopāyatā? ye cāndramāsāḥ te sādhanikāḥ teṣām
sādhanikatvāt sādhanikaḥ eva māsarāśiḥ labhyate | punar api ca bhūdivasānām
rahitāvamatvāt trairāśikena rahitāvamaḥ ahargaṇaḥ labhyate | atha kaścit
laghūkaraṇārthī guṇakārāt bhāgahāram apanayet tasya śeṣaguṇite labdham
pratirāśitaguṇye [kṣipet] | yadi bhāgahārāt avaśiṣyate tatra śeṣaguṇite labdham guṇyāt
pratirāśitāt apanīyam iti eṣaḥ gaṇitanyāyaḥ | atha atra guṇakārādhikatvāt māsāḥ
kṣipyante bhāgahārādhikatvāt divasāḥ apacīyante iti ekopāyatā | tasmāt na arthaḥ
anayā kārīkayā, tathāpi lokavyavahārārtham adhimāsāvamānām
upadeśaḥ kartavyaḥ | lokaḥ ca adhimāsāvamaiḥ vyavaharati | uktam ca ā
"karaṇādhiṣṭhitam adhimāsakam kuryāt", "trīsatam sacatuṣpañcāśa[tam a]horātrāṇām

karma sām̐vatsaraḥ" iti | adhimāsārtham trairāśīkam ā yadi yugavarṣaiḥ māsaiḥ vā
yugādhimāsakāḥ labhyante, tataḥ yātavarṣādibhiḥ kiyantaḥ iti adhimāsakalabdhiḥ |
evam eva avamānām cāndradivasaiḥ iti |

atra ca ayam praśnaḥ ā "tena divākaroḍupau" iti ahargaṇena vinā candrādityānayanam
| tat yathā ā yātavarṣeṣu dvādaśaguṇiteṣu gatamāsān kṣipet | tataḥ triṃśadguṇiteṣu
divasān prakṣipyā trairāśīkam ā yadi

pūrṇaviyadambarajaladharapayodharayamaśaraviṣayeṣucandraiḥ [1555200000]
yugasauradivasaiḥ yugādhimāsakāḥ labhyante, tataḥ etaiḥ divasaiḥ kiyantaḥ iti,
labdham adhimāsakāḥ | śeṣe kṣepaḥ ucyate ā yadi bhūdivasatulyena avamaśeṣeṇa
yugādhimāsatulyaḥ

upacayaḥ adhimāsakaśeṣasya labhyate, tadā anena avamaśeṣeṇa kiyān iti | yat
labdham tat adhimāsakaśeṣe prakṣipyā yugacāndramāsaiḥ

rasarāmāgnigutāsanatrikṛtatriviṣayaiḥ [5343336] bhāgalabdham bhāgāḥ, ṣaṣṭiguṇite
liptāḥ | triṃśadguṇādhikayutam divasarāśim kṛtvā trairāśīkam ā yadi yugacāndradinaiḥ
yugāvamadināni labhyante, tataḥ etaiḥ kim iti labdham avamaḥ | śeṣam ṣaṣṭyā
saṃguṇya bhūdivasaiḥ pūrṇāmbaraśaranagaśaśirandhramunigiriviṣayarūpaiḥ
[1577917500]

vibhajet, labdham ghaṭikāḥ |

atha kim artham adhikāvamaśeṣayoḥ śaśimāsabhūdivasaiḥ bhāgaḥ hriyate? ucyate ā
yaḥ asau adhimāsaśeṣaḥ sa cāndramāsāvayavaḥ | ataḥ tena sacchedena trairāśīkam ā
yadi yugaśaśimāsaiḥ sūryabhagaṇāḥ labhyante, tataḥ anena śaśimāsāvayavena
kiyantaḥ iti | tatra śaśimāsāvayavacchedena saha ravibhagaṇena apavartanam ā
ravibhagaṇānām ravibhagaṇabhāgena ekaḥ guṇakāraḥ, chedasya tāvat bhāgena
ṣaṣṭīsatatrayam | tatra bhagaṇeṣu bhāgam na prayacchati
iti dvādaśa triṃśat ca guṇakāraḥ | tatra ṣaṣṭīsatatrayabhāgena rūpam, tāvat bhāgena

eva chedasya api rūpam eva | śaśimāsāḥ eva kevalāḥ bhāgahārāḥ iti | avamaśeṣaḥ api
bhūdināvayavaḥ iti trairāśīkam ā yadi bhūdinaiḥ cāndradivasāḥ labhyante, tataḥ anena
bhūdivasāvayavena cāndradivasacchedena kim iti | tatra guṇakārabhāgahārayoḥ
tulyatvāt nāśaḥ | śeṣe ṣaṣṭiguṇe bhūdivasabhakte ghaṭikāḥ iti | atha yātavarṣāṇi
bhagaṇāḥ, māsāḥ rāśayaḥ, dināni bhāgāḥ iti parikalpya
avamaśeṣalabdghaṭikāḥ ca liptāḥ | ebhyaḥ adhikaśeṣalabdham viśodhayet | śeṣam
madhyamasūryaḥ | tebhyaḥ eva trayodaśaguṇitebhyaḥ adhikaśeṣaphalam viśodhayet |
śeṣam madhyamacandraḥ |

adhimāsakaiḥ api avamāḥ ānīyante | tat yathā ā abhīṣṭavarṣāṇi dinīkr̥tya trairāśīkam ā
[yadi] yugasūryadivasaiḥ yugādhimāsakāḥ labhyante, tataḥ etaiḥ abhīṣṭasūryadivasaiḥ
kiyantaḥ iti, adhimāsakāḥ samatīkr̥ntāḥ labhyante, vartamānasya ca śeṣaḥ | tat etat
trairāśīkam ā yadi yugādhimāsaiḥ yugāvamarātrā[ṇi] labhyante tataḥ etaiḥ
adhimāsakaiḥ abhīṣṭaiḥ kiyantaḥ iti gaṇitanyāyena savarnīkr̥tya yugāvamaiḥ guṇayet |
athavā abhīṣṭādhimāsarāśim aṃśarāśim
ca pṛthak pṛthak yugāvamaiḥ samguṇayya aṃśarāśim yugasūryadivasaiḥ vibhajya
labdham upari kṣiptvā yugādhimāsakaiḥ bhāgalabdham abhīṣṭakālāvamāḥ | athavā
trairāśīkadvyam bhaṅktvā api ānīyante ā yadi yugasūryadivasaiḥ adhimāsakāḥ
labhyante, tataḥ abhīṣṭadivasaiḥ kiyantaḥ iti ekam trairāśīkam | tataḥ punar api ā yadi
yugādhimāsakaiḥ yugāvamāḥ labhyante, tataḥ
trairāśīkanyāyaviracitarāśyutpannādhimāsakaiḥ kiyantaḥ iti | tatra pūrvatrairāśīke
yugādhimāsakaḥ
guṇakāraḥ dvitīyatrairāśīke bhāgahāraḥ | ataḥ guṇakārabhāgahārayoḥ tulyatvāt
naṣṭayoḥ abhīṣṭadivasānām yugāvamaḥ guṇakāraḥ, yugasauriyadivasāḥ bhāgahāraḥ,
labdham abhīṣṭāvamāḥ |

abhīṣṭāvamaiḥ api adhimāsakāḥ ānīyante | abhīṣṭavarṣamāseṣu tat

utpannādhimāsakān prakṣipya triṃśatā saṃguṇayya trairāśikadvayam kriyate ā yadi yugaśāśidivasaiḥ yugāvamāḥ labhyante tataḥ abhīṣṭaśāśidivasaiḥ kiyantaḥ iti avamāḥ | evam ekam trairāśikam | punar ā yadi yugāvamaiḥ yugādhimāsakāḥ labhyante tataḥ abhīṣṭāvamaiḥ pūrvatrairāśikaviracitaiḥ kiyantaḥ iti, adhimāsakāḥ labhyante | tatra pūrvatrairāśike yugāvamāḥ guṇakāraḥ, iha bhāgahāraḥ | ataḥ guṇakārabhāgahārayoḥ tulyatvāt naṣṭayoḥ yugaśāśidivasāḥ bhāgahāraḥ, yugādhimāsakaḥ guṇakāraḥ, phalam abhīṣṭādhimāsakāḥ | pūrvavat vā pṛthak pṛthak trairāśikena api karaṇīyam |

atha adhimāsakaiḥ abhīṣṭagrahāḥ api ānīyante | tat yathā ā yadi yugādhimāsakaiḥ abhīṣṭagrahabhagaṇāḥ labhyante, tadā iṣṭādhimāsakaiḥ kiyantaḥ iti | adhimāsapatanakālāvadheḥ abhīṣṭagrahabhagaṇādayaḥ labhyante | asau eva abhīṣṭakālikaḥ kriyate | katham? adhimāsaka[śeṣeṇa] abhīṣṭagrahabhagaṇān saṃguṇayya adhimāsakaiḥ guṇitaśāśidivasaiḥ vibhajet | tatra bhagaṇādayaḥ labhyante, [te] pūrvabdhādhimāsakagrahabhagaṇeṣu yojyante tadā avamarātrapatanakālāvadheḥ bhavati | tataḥ punar api avamarātraśeṣam ṣaṣṭyā saṃguṇayya śāśidivasaiḥ eva vibhajet | labdham ghaṭikāḥ | tataḥ ā yadi ṣaṣṭighaṭikābhiḥ abhīṣṭagrahabhuktiḥ labhyate, [tadā] ābhiḥ ghaṭikābhiḥ kim iti | labdham pūrvasthāpīte grahe dadyāt, abhīṣṭadivasasya udayakālāvadheḥ [grahaḥ] bhavati |

atha avamaiḥ api ā yadi yugā[vamaiḥ abhīṣṭagrahabhagaṇāḥ] labhyante tataḥ yātāvamaiḥ kiyantaḥ iti | avamarātraparisamāptikālāvadheḥ abhīṣṭagrahabhagaṇādayaḥ labhyante, tataḥ iṣṭadivasaudayikaḥ kriyate | katham? avamarātraśeṣeṇa abhīṣṭagrahabhagaṇān saṃguṇayya yugāvamabhūdivasasaṃvargena vibhajet | labdham bhagaṇādayaḥ | tān pūrvabdhhabhagaṇādiṣu kṣipet | audayikaḥ grahaḥ bhavati |

atra ayam praśnaḥ ā

avamaiḥ yaḥ adhikamāsān avamāni ca yaḥ karoti adhikamāsaiḥJ
tābhyām vā graham iṣṭam tasya aham śiṣyatām yāmi || 1 ||

iti|

adhimāsāvamaśeṣābhyām sūryācandramasoḥ ānayanam uktam | idānīm avamaśeṣāt
eva sarvagrahānayanam abhidhāsyate | tat yathā ā yugāvamam ṣaṣṭyā apavartya
sthāpanā ā 418043 | atha ādityānayanane tāvat ete apavartitāvamāḥ kena guṇitāḥ
apavartitādityabhagaṇān apanīya tat apavartitabhūdinānām tu śuddham bhāgam
dadyuḥ iti kuṭṭākāraḥ kriyate | tatra labdham kuṭṭākāraḥ saptendurasādrivasavaḥ,
aṅkaiḥ api 87617 | anena avamaśeṣam samguṇayya
apavartitabhūdinaiḥ eva vibhajet | śeṣam tatra raveḥ maṇḍalaśeṣaḥ | etena
ādityānayanam vyākhyātam |

uddeśakaḥ ā

ṣaṭsaptabāṇenduśarādriśūnyadasrapramāṇaḥ avamajātaśeṣaḥ |
etena śeṣaḥ ravimaṇḍalānām vācyāḥ vivasvān ca kalāntasaṅkhyam || 2 ||

avamaśeṣaḥ 20751576 | labdham raveḥ maṇḍalaśeṣaḥ 49665, raviḥ ca 2 | 24 | 58 |

candrasya api kuṭṭākārānayanam pūrvavat eva | apavartitāvamāḥ kena guṇitāḥ
apavartitacandrabhagaṇān apanīyā apavartita[bhū]dinānām śuddham bhāgam
prayacchati iti kuṭṭākāranyāyena labdham kuṭṭākāraḥ 2119236 | uddiṣṭāvamaśeṣeṇa
candrānayanam |

athavā madhyamāt sūryāt sahayātabhagaṇaiḥ liptīkr̥tya trairāśīkam ā yadi
yugaravilīptābhiḥ yugaśāsībhagaṇāḥ labhyante, [tadā] etābhiḥ yātaravilīptābhiḥ kiyantaḥ
iti | labdham bhagaṇāḥ, śeṣe dvādaśādiguṇite madhyamaḥ candraḥ labhyate | athavā
khakhaṣaḍghanena yadā yugaravilīptāḥ apavartitāḥ bhavanti [tadā] ravibhagaṇāḥ
bhāgahāraḥ, śāsībhagaṇāḥ yātaravilīptānām guṇakāraḥ, phalam
madhyamacandralīptāḥ | evam anena nyāyana candrāt abhīṣṭagrahāt
vā iṣṭagrahaḥ ānīyate | katham? nirjñātagrahayātalīptānām abhīṣṭagrahabhagaṇāḥ
guṇakāraḥ nirjñātagrahayugaliptāḥ bhagaṇāḥ vā bhāgahāraḥ, phalam [bhagaṇāḥ] liptāḥ
[vā] | atra ayam praśnaḥ ā

savituh śāsinam karoti yaḥ śāsināḥ sthititaḥ tārakagrahān |
asmatsiddhāntavarjitāt kālajñapravaraḥ sa ucyate || 3 ||

iti || 6 ||

[mānuṣapitr̥devavarṣapramāṇāni]

mānuṣapitr̥devānām varṣapramāṇanirūpaṇāya āha ā

ravivarṣam mānuṣyam tat api triṃśadguṇam bhavati pitryam |
pitryam dvādaśaguṇitam divyam varṣam vinirdiṣṭam || 7 ||

ravivarṣam, raveḥ varṣam ravivarṣam | ravivarṣasya ca pramāṇam abhihitam ā
"ravibhagaṇāḥ ravyabdāḥ" [kālakriyāī, 5] iti | raveḥ bhagaṇabhogaḥ mānuṣāṇām
varṣam | yat eva raveḥ varṣam tat eva mānuṣāṇām varṣam iti | tat api triṃśadguṇam
bhavati pitryam | tat mānuṣyam varṣam triṃśadguṇitam pitryam varṣam bhavati, yasmāt

māsaḥ teṣām ahorātram | uktam ca ā "śaśimāsārdham pitarah" [kālakriyāī, 17] iti |
pitryam dvādaśaguṇitam divyam varṣam
vinirdiṣṭam | piṭṛṇām yat varṣam tat dvādaśaguṇitam ekam varṣam devānām, yasmāt
pitryam varṣam māsaḥ devānām | yathākrameṇa ekatriṃśatśaṣṭīśatatraya[guṇam] ca
[ravivarṣam] manujapitṛdevānām [varṣāṇi] || 7 ||

[yugamānam brahmadinapramāṇam ca]

caturyugabrahmadinajñāpanārtham āha ā

divyam varṣasahasram grahasāmānyam yugam dviṣaṭkaguṇam |
aṣṭottaram sahasram brāhmaḥ divasaḥ grahayugānām || 8 ||

yat etat divyam varṣam tat dvādaśabhiḥ sahasreṇa guṇitam grahasāmānyam yugam |
grahāṇām sāmānyam grahasāmānyam | kim tat? yugam | yasmāt sarve grahāḥ
sahaśighroccaiḥ yugapat mīnameṣasandhau bhavanti, tasmāt yugam grahasāmānyam |
tat ca viyadambarākāśāsūnyayamarāmavedāḥ [4320000] | etat eva kṛta-tretā-dvāpara-
kalivarṣāṇām pramāṇam | asmākam tu yugapādāḥ sarve eva ca tulyakālāḥ |
paurāṇikaiḥ tu bhinnakālāḥ vyākhyātāḥ ā

catvāri āhuḥ sahasrāṇi varṣāṇām yat kṛtam yugam |
tasya tāvat śatī sandhyā sandhyāṃśaḥ ca tathāvidhaḥ ||
itareṣu sasandhyeṣu sasandhyāṃśeṣu ca triṣu |
ekāpāyena vartante sahasrāṇi śatāni ca ||
[manusmṛtiḥ, 1.69-70]

iti | kṛtapramāṇam viyadambarākāśavasuyamamunicandrāḥ [1728000] | tretāpramāṇam

viyadambarākāśarasanavārkāḥ [1296000] | dvāparapramāṇam
viyadambarākāśavedarasavasavaḥ [864000] | kalipramāṇam
viyadambarākāśayamarāmavedāḥ [432000] | samāsitāni
viyadambarākāśāsūnyayamarāmavedāḥ [4320000] | kim punar atra yuktaṃ ā
purāṇakāraih yathā bhinnapramāṇāni kṛtādīni vyākhyātāni tathā pratipattum, āhosvit
yathā asmākam ācāryeṇa pratipāditāni samapramāṇāni
iti? yathā asmākam prasiddhāni tathā iti āha | yadi purāṇaprakriyāprasiddhāni
yugapādapramāṇāni parigr̥hyantām, tadā kaliyugādau grahāḥ mīnameṣasandhau
yugapat madhyamagatyā na syuḥ | katham iti ucyate | yugapādānām trayāṇām
ekatrapramāṇam viyadambarākāśāṣṭavasurasurāmāḥ [3888000] iti etaiḥ ahargaṇam
utpādya yathāvihitamadhyamagrahagaṇitaprakriyāyām yugapat mīnameṣasandhau
madhyamagrahāḥ na labhyante | anayā eva prakriyayā idānīm
api grahagatyām sādhyamānāyām eva iṣṭagrahāṇām gatiḥ na labhyate | yadi punar
samam eva kṛtādīnām pramāṇam tat idam trayāṇām api yugapādānām pramāṇam
viyadambarākāśāsūnyakṛtayamāgnayaḥ [3240000], anena yātena sarvam iṣṭam
upapadyate | tasmāt "yathā asmākam prasiddhāni " iti suṣṭhu uktam |

aṣṭottaram sahasram brāhmaḥ divasaḥ grahayugānām | grahayugam iti yat etat
grahasāmānyam yugam tat parigr̥hyate | tat aṣṭottareṇa sahasreṇa guṇitam prajāpateḥ
ekadivasapramāṇam bhavati | nanu ca atra api paurāṇikaiḥ saha virudhyate | katham?
paurāṇikaiḥ ā

sahasrayugaparyantam ahar yat brahmaṇaḥ viduḥ |
rātrim yugasahasrāntām te ahorātravidaḥ janāḥ ||
[bhagavadgītā, 8.17]

iti sahasrayugaparyantam brahmaṇaḥ divasapramāṇam uktam | atra ca aṣṭottaram

sahasram caturyugānām iti | atra tāvat vicāryate | paurāṇikaiḥ ā

"sahasrayugaparyantam ahar yat brahmaṇaḥ viduḥ" iti abhidhāya taiḥ eva ekasaptatiḥ
caturyugānām manvantaram caturdaśa manavaḥ brāhmaḥ divasaḥ iti [abhihitam] | atra
ekasaptatiḥ caturdaśaguṇitā sahasrasaṅkhyām na prāpnoti | ucyate ca ā caturdaśa
manvantarāṇi brahmaṇaḥ divasaḥ, sahasram caturyugānām iti svavacanavirodhaḥ
| asmākam tu dvāsaptatiḥ caturyugānām manvantaram, aṣṭottarasahasram brāhmaḥ
divasaḥ iti yuktisiddham etam | katham punar idam jñāyate dvāsaptatiḥ caturyugānām
manvantaram iti? gītikāsūktatvāt |

kāhaḥ manavaḥ ḍha manuyugāḥ śkha | iti |

[gītikāi, 5] || 8 ||

[utsarpiṇyādiyugavibhāgaḥ]

utsarpiṇyapasarpiṇīsuṣamāduṣṣmāparijñānāya āha āā

utsarpiṇī yugārdham paścāt apasarpiṇī yugārdham ca |
madhye yugasya suṣamā ādau ante duṣṣamā indūccāt || 9 ||

utsarpiṇī nāma yasmin prāṇinām āyuryaśovīryasaukhyādīni upacīyante sa kālaḥ
utasrpiṇīsamjñakaḥ | tasya ca pramāṇam yugārdham | yugasya ardhham yugārdham |
yugam tu abhihitam eva | tasya ardhasaṅkhyāpramāṇam utsarpiṇī
viyadambarākāśaśūnyarasenduyamāḥ [2160000] | paścāt apasarpiṇī yugārdham ca |
paścāt iti anena ustarpiṇīkālānantaram apasarpiṇīkālam darśayati | yasmāt
pūrvapravṛttasya paścāt iti vyapadeśaḥ bhavati | yasmin prāṇinām
āyuryaśovīryasaukhyādīni apacīyante sa apasarpiṇīsamjñakaḥ kālaḥ | tasya ca
pramāṇam yugasya paścārdham viyadambarākāśaśūnyarasenduyamāḥ [2160000] |

evam ca ā madhye yugasya suṣamādaḥ ante duṣṣamenūccāt | tasya pūrvārdhasya
madhye suṣamā duṣṣamā ca | ādaḥ ante ca | ādaḥ suṣamā ante duṣṣamā |
suṣamāduṣṣamāpramāṇam yugacaturbhāgaḥ | katham? madhye iti vacanāt |
yugārdhasya ardhm yugacaturbhāgaḥ iti | pratigrahaḥ yugabhedāt āha ā "indūccāt" |
indūccāt niṣpannāt yugāt ete utsarpiṇyapasarpiṇīsuṣamāduṣṣamākālāḥ avagantavyāḥ
iti | atha kim ucyate indūccāt iti ? nanu ca grahasāmānyam
yugam iti abhihitam | satyam | evam etat | pratigrahaḥ apavartanaviśeṣāt yugabhedāḥ |
tat yathā ā raveḥ maṇḍalāni ṣaṇmuniśarāḥ [576], divasapramāṇena yugam api
navavasurāmaśūnyenduyamāḥ [210389] | candrasya divasapramāṇena yugam
śarayamāṅgaviṣayeṣurūpadasrāḥ [2155625] | evam anyeṣām api |

atha yugasya kim lakṣaṇam? ucyate ā caitraśuklapratipadi ardhodite savitari laṅkāyām
mīnameṣasandhau pravṛttaḥ grahaḥ punar mīnameṣasandhau caitraśuklapratipadi
savituḥ ardhodaye laṅkāyām yāvatā kālena prāpnoti tāvat kālaḥ yugam iti | uktam ca ā

caitrasitādaḥ sūrye viṣuvati ardhodite pravṛttasya |
meṣādeḥ mīnāntam tathāvidhasya eva saṃprāptiḥ ||

iti |

bhinnāgreṣu yugeṣu ekāgrīkaraṇam kuṭṭākāreṇa abhihitam ā "kaścit dvābhyām ekāgraḥ
tribhiḥ dvyagraḥ" iti ādi | athavā indūccāt nimittāt
utsarpiṇyapasarpiṇīsuṣamāduṣṣamāṅgām gatagantavyam vijñeyam iti | katham punar
gatagantavyaparijñānasya indūccanimittatvam pratipadyate iti ? ucyate ā
kuṭṭākāragāṇitena, yasmāt indūccayātāgrasya indūccabhagaṇāḥ yugavarṣāṇi
yugadivasāḥ [vā] bhājyabhāgahāratām pratipadyante | tat yathā asmin vastubhiḥ

vā parikalpitaḥ uddeśakaḥ ā

niśīthinīnām adhipasya tuṅgajam gatam tu rāśitritayam yadā bhavet |

tadā kiyat yātam atha āśu gaṇyatām yugasya varṣāgradināgratām ca me || 1 ||

labdham varṣāgram viyadambarākāśāsūnyakṛtayamāgnayaḥ [3240000], dināgram ca
śararavivasuvahnivedarāmavasurudrāḥ [1183438125] |

athavā ayam aparaḥ prakāraḥ ā utsarpiṇī yugārdham | utsarpati iti utsarpiṇī, upacīyate
iti arthaḥ | kā sā utsarpiṇī? grahabhuktiḥ iti adhyāhāryam | sā punar kiyantam kālam
utsarpiṇī iti āha ā yugārdham | yujyante asmin grahāḥ iti yugam | tat ca nakṣatracakram
eva parigr̥hyate, yasmāt ekasmin maṇḍale grahasya grahaiḥ saha yogaḥ sambhavati |
tasya yugasya ardham yugārdham, ṣaḍrāśayaḥ | paścāt apasarpiṇī yugārdham ca |
paścāt punar api apasarpiṇī yugārdham

eva | rāśiṣaṭkam iti arthaḥ | madhye yugasya suṣamā, tasya yugasya madhye antare iti
arthaḥ | suṣamā āditaḥ antataḥ ca gaṇyamāne suṣamā, ekasya padasya āditaḥ
aparasya antataḥ iti arthaḥ | [ādau ante ca] duṣṣamā dr̥ṣṭā | anyaparakāreṇa iti
vākyaśeṣaḥ |

katham etāḥ punar utsarpiṇyapasarpiṇīsuṣamāduṣṣamāgrahabhuktayaḥ vijñāyante iti
atra āha ā indūccāt, candrakendrāt iti arthaḥ | tat yathā ā indoḥ kendrasya yadā
rāśitrayam dvau bhāgau aṣṭāviṃśatiḥ ca kalāḥ, tadā prabhṛti madhyamabhuktiḥ
upacīyate, yāvat kendram rāśiṣaṭkam samjātam iti | tataḥ tasmāt rāśiṣaṭkāt kendrāt
upacitānām bhuktīnām utkrameṇa apacayaḥ, yāvat kendrasya aṣṭau rāśayaḥ
saptaviṃśatiḥ bhāgāḥ dvātriṃśat liptāḥ ca samjātāḥ

| etāḥ eva utkrameṇa dviṭīyapadāntāt pravigaṇyamānāḥ tulyāḥ iti ādau ante ca suṣamā |
athavā ādau ante ca, dviṭīyapadanirdiṣṭakendrāt prabhṛti krameṇa yāḥ bhuktayaḥ yāḥ

ca tṛtīyapadanirdiṣṭakendrāt utkrameṇa bhuktayaḥ tāḥ tulyāḥ, evam
caturthaprathamapadayoḥ api, iti ādau ante ca suṣamā | anyathā duṣṣamā |

atra indukendram uddīśya ācāryeṇa utsarpiṇyapasarpiṇīsuṣamāduṣṣamāḥ pradarśitāḥ |
etat vidhānam anyeṣām api grahāṇām pratipattavyam | tat yathā ā sūryasya yadā
kendram rāśitrayam sacatuṣpañcāśalliptam, tadā sūryasya vyāsārdhatulyaḥ karṇaḥ,
bhuktiḥ ca madhyamā | yadā ca aṣṭau rāśayaḥ ekonatrimśadbhāgāḥ liptāḥ ca ṣaṭ gatāḥ
[tadā api] vyāsārdhatulyaḥ [karṇaḥ] , madhyamā bhuktiḥ ca | kujā[dīnām api]
vyāsārdhatulyam bhūtārāgrahavivaram
bhavati | tathā "[kākṣyāpratimaṇḍalagāḥ] [kālakriyāī, 17] iti asyām kārikāyām vakṣyate ||
9 ||

[āryabhaṭajanmakālaḥ]

ācāryāryabhaṭaḥ svajanmakālaḥ jñānārtham āha ā

ṣaṣṭyabdānām ṣaṣṭiḥ yadā vyatītāḥ trayaḥ ca yugapādāḥ |
tryadhikā viṃśatiḥ abdāḥ tadā iha mama janmanaḥ atītāḥ || 10 ||

ṣaṣṭyabdānām ṣaṣṭiḥ | ṣaṣṭiḥ abdāḥ ṣaṣṭiguṇāḥ iti arthaḥ | yadā vyatītāḥ | yadā yasmin
kāle, vyatītāḥ vyatikrāntāḥ | trayaḥ ca yugapādāḥ | yugasya pādāḥ yugapādāḥ, te ca
yadā trisaṅkhyāḥ vyatītāḥ | tryadhikāḥ viṃśatiḥ abdāḥ | tribhiḥ adhikāḥ tryadhikāḥ
viṃśatiḥ abdāḥ | tadā | tasmin kāle | mama janmanaḥ atītāḥ |

etat eva ācāryāryabhaṭaḥ śāstravyākhyānasamaye vā pāṇḍuraṅgasvāmi-lāṭadeva-
niśaṅku-prabhṛtibhyaḥ provāca | atha atra idam praṣṭavyam ā asya vyākhyānam kim
upakaroti iti? ucyate ā anena atītena kālena pariñātena sukham ādityādīnām kālaḥ

atītaḥ anāgataḥ vā paṭhyate | atha ca sampradāyāvicchedāt vyatītaḥ kālaḥ vijñāyate | na
etat asti | anabhidhāne bahu atra smaraṇīyam | trayāṇām yugapādānām varṣasaṅkhyā
śūnyāambarākāśaviyadvedayamāgnayaḥ

[3240000] | gatam ca kaliyugasya | ekasya abhidhāne etāvataḥ tāvat
sampradāyāvicchedāt araḥ na kartavyaḥ | kintu ācāryajanmakālāvadheḥ yaḥ uttaraḥ
kālaḥ asya eva sampradāyāvicchedaḥ adhigantavyaḥ |

anyat ca "ṣaṣṭyabdānām ṣaṣṭiḥ" iti asya abhidhāne prayojanam abhidhāsyate | ayam
asya abhiprāyaḥ ā kṛtayugādeḥ ahargaṇaḥ sādhyāḥ | anyathā kṣepaḥ śaśyuccapātayoḥ
jāyate iti | kṛtayugādeḥ punar ahargaṇe kriyamāṇe śaśyuccapātayoḥ na eva kṣepaḥ |
"budhāhnyajārkodeyāt ca laṅkāyām" [gītikāī, 4] iti budhādiḥ ahargaṇaḥ divasavāraḥ |
idānīm tu laghugaṇitavyavahārārtham kaliyugāhargaṇaḥ kriyate | śukrādidivasavāraḥ |
candroccasya rāśitrayam, rāśiṣaṭkam

ca rāhoḥ kṣepaḥ, tamasā ca maṇḍalāt vilomatvāt viśodhyate | athavā karaṇāgatam
eva tamaḥ yathā iṣṭasphuṭacandramasi prakṣipyā dakṣiṇottaradigvidheḥ
vikṣepānayanam iti |

atha ahargaṇe drṣṭe grahagatyānayanam ā yadi yugāhargaṇena grahāṇām
gītikābhihitabhagaṇāḥ labhyante anena ahargaṇena kiyantaḥ iti, labdham samatīkrāntāḥ
bhagaṇāḥ | śeṣe dvādaśādiguṇite rāśyādimadhyamagrahasiddhiḥ |

atha atra romakāḥ pratyabdasodhanena ādityam ānayanti | tena ca ādityena sarvān eva
grahān iti | etat atra api pradarsyam | tat yathā ā pratyabdasodhanam hi nāma
caitraśuklapratipadi ardhodayāt ārabhya yāvat ādityaudayikasya maṇḍalagantavyasya
bhogakālaḥ | sa yugānte yugaravibhagaṇaiḥ pramāṇecchābhūtaiḥ divasasaṅkhyāḥ eva
bhavanti | yathā iṣṭaravibhagaṇaiḥ trairāśīkam kriyate, tat yathā ā "yadi
yugaravibhagaṇaiḥ bhūdivasasaṅkhyāḥ ahargaṇaḥ

labhyate iṣṭaravibhagaṇaiḥ kiyān iti ahargaṇaḥ labhyate, śeṣe ṣaṣṭyādiguṇite
ghaṭikādayaḥ iti ravibhagaṇasamāptikālāvadheḥ ahargaṇaḥ labhyate | tasmāt
caitraśuklāvadhiniṣpannavarṣāntikaḥ ahargaṇaḥ śodhyate, caitraśuklādeḥ upariṣṭāt
ravibhagaṇasamāptikālāvadhayaḥ bhaviṣyanti |

athavā varṣāntikena ahargaṇena trairāśīkam ā yadi caturyugāhargaṇena khughṛ-tulyāḥ
sūryabhagaṇāḥ labhyante, anena kaliyātāhargaṇena kiyantaḥ iti labdham bhagaṇāḥ |
śeṣāt gatagantavyam kṛtvā gatagantavyarāśeḥ yugasūryabhagaṇaiḥ bhāgalabdham
divasāḥ | śeṣe ṣaṣṭyādiguṇite ghaṭikādayaḥ | caitraśuklādeḥ upariṣṭāt adhaḥ vā
ravibhagaṇasamāptikālāvadhayaḥ divasādayaḥ bhavanti | etat eva pratyabdasodhanam
asmābhiḥ karmanibandhe laghutaram
pratipāditam | tat yathā ā

rudraiḥ sahasrahataṣaṭchakalaiḥ ca hatvā
varṣāṇi randhravasuvahnisamānasaṅkhyaiḥ |
yuktvā sadā pravigaṇayya kharāmabhakte
māsāḥ bhavanti divasāḥ ca hr̥te avasiṣṭāḥ ||

saṃhatya randhrayamalaiḥ sararāmabhāgaḥ
bhūyaḥ agnivedaguṇiteṣu haret ca bhāgam |
khavyomakhadvimunibhiḥ pralayāḥ tithīnām
saṃyojya bhūtayamarudrahṛte dināni ||

varṣeṣu randhrakṛtacandrasamāhateṣu
ṣaṭsaptapañcavihr̥teṣu dinādilābhaḥ |
te yojitāḥ daśahatāsu samāsu saṃjñām
samprāpnuvanti ravijāḥ iti niścayaḥ me ||

ravijadivasayojyāḥ ca avamāḥ ye atra labdhāḥ
satatam adhikamāsān śodhayet khāgninighnān |
bhavati yat avaśiṣṭam śodhanīyam samāyām
yadi tat adhikaśuddham kṣepyam eva upadiṣṭam || iti |

[mahābhāskarīyam, 1.22-23, 27-28]

evam pratyabdaśodhanam ānīya tataḥ arkaḥ sādhyate | katham? etat api tatra uktam
eva ā

madhusitadivasādyāḥ hīnahīnaḥ gaṇaḥ ahnām
divicarahṛtaśiṣṭaḥ vāramāhābdapādim |
tataḥ idam api śodhyam śodhanīyam samāyām
patitasamatiriktaḥ gr̥hyate na aparāḥ atra ||

saptatyā divasādyāḥ śarabhāgāḥ dviguṇitāḥ vighaṭikāḥ ca |
tadrahitaḥ grahadehaḥ ravibudhabhṛgavaḥ ca nirdiṣṭāḥ || iti |
[mahābhāskarīyam, 1.30-31]

evam sūryaḥ siddhaḥ | [tasmāt bhagaṇeṣu] dvādaśaguṇiteṣu sūryabhuktarāśayaḥ
prakṣipyante | tataḥ triṃśadguṇiteṣu bhāgāḥ iti | evam sūryāhargaṇaḥ siddhaḥ |
sūryāhargaṇa[tulya]m aṃśam ādityaḥ bhukte |

atha sarveṣām grahāṇām sūryadivasabhogānayanam | yugaravyabdāḥ
ṣaṣṭīsatatrayaguṇitāḥ yugaravidivasāḥ | yadi etaiḥ abhīṣṭagrahabhagaṇāḥ labhyante,
tadā ekena ravidivasena kiyantaḥ iti trairāśikanyāyena [labdham bhagaṇātmikā

grahagatiḥ] | rāśibhāgaliptānayanane dvādaśa-triṃśat-ṣaṣṭiḥ ca guṇakārāḥ | teṣām
samvargaḥ khakhaṣaḍghanah | ataḥ khakhaṣaḍghanasya khakhaṣaḍghanabhāge
ekam, yugaravidivasānām khakhaṣaḍghanabhāgena dvāsaptatiḥ sahasrāṇi,
iti ataḥ dvāsaptatisahasraiḥ pratisvasvagrahabhagaṇānām bhāgaḥ, labhyante
grahāṇām sūryadivasabhuktayaḥ ataḥ ca yathālabdhāḥ likhyante ā candramasaḥ liptāḥ
dvāviṃśatiḥ liptātrisahasrabhāgāḥ navavasurāmāḥ, bhaumasya liptāḥ ekatriṃśat
liptātrisahasrabhāgāḥ rūpakhamunipakṣāḥ, br̥haspateḥ liptāḥ pañca
liptāpañcasaptatyuttaratriṃśatabhāgāḥ dvāviṃśatiḥ, śanaiḥ carasya liptādvayam
liptāṣṭādaśasahasrabhāgāḥ śaśikṛtarasāḥ, budhoccasya liptāḥ nava
liptāṣaṭtriṃśacchatabhāgāḥ
śaśīśvedāḥ, bhṛgoḥ liptāḥ saptatriṃśat liptāṣaṭsahasrabhāgāḥ navanavendurāmāḥ |
evam yathāvilikhitasūryadivasagrahabhuktibhiḥ sūryāharganam guṇayet,
sūryabhuktaliptābhiḥ ca trairāśikena yat avāptam phalam prakṣipyā khakhaṣaḍghanena
vibhajet, śeṣam grahabhuktaliptāḥ | iyān tatra viśeṣaḥ candramasi trayodaśaguṇaḥ
sūryaḥ kṣepaḥ, budhocce caturguṇaḥ, śukrocce rūpaguṇitaḥ iti | etat api
aśeṣagrahānayanam karma laghutaram eva karmanibandhe pradarśitam
tatra eva avagantavyam iti || 10 ||

[yugādikālānantyanirdeśaḥ]

kālpravṛtyānantyapratipādanāya āha ā

yugavarṣamāsadivasāḥ samam pravṛttāḥ tu caitraśuklādeḥ |
kālaḥ ayam anādyantaḥ grahabhaiḥ anumīyate kṣetre || 11 ||

yugam ca varṣam ca māsah ca divasaḥ ca yugavarṣamāsadivasāḥ, ete samam
pravṛttāḥ yugapat pravṛttāḥ iti arthaḥ | kasmāt iti āha ā caitraśuklādeḥ | caitraḥ māsah,

tasya [yaḥ] śuklaḥ pakṣaḥ, tasya śukla[pakṣa]sya yaḥ ādiḥ, [sa] ardhodayaḥ iti arthaḥ,
tasmāt caitraśuklādeḥ yugādayaḥ ye te yugapat pravṛttāḥ | nanu ca yuge caitraśuklādeḥ
pravṛtte sarve eva samam pravṛttāḥ syuḥ | tasmāt yugam caitraśuklādeḥ pravṛttam iti
etat eva astu | na iti āha ā śāstrāntare
varṣādīnām anyasmāt pravṛtṭiḥ abhihitā ā

prathame vāsavasya aṃśe dvitīyāṃśe tu ajasya tu |
revatīnām ṛtīyāṃśe caturthāṃśe yamasya ca ||

saumyasya prathamāṃśe ca dvitīyāṃśe punar vasoḥ |
sārpasya aṃśe ṛtīye tu caturthāṃśe bhagasya ca ||

tvāṣṭrasya ādyāṃśake ca eva dvitīyāṃśe viśākhayoḥ |
aindrasya aṃśe ṛtīye ca āpyasya aṃśe caturthake ||

yadā samānām adhipaḥ br̥haspatiḥ ataḥ utthitaḥ |
udayati aṃśakānte vā prathamāḥ paryayaḥ bhavet ||

iti|

evam varṣāṇām pravṛtṭiḥ atidūrabhinnā | tasyām ca varṣapravṛttau bhinnāyām
māsadivasapravṛtṭiḥ api bhinne eva bhavataḥ | athavā evam syāt ā iyam varṣāṇām
pravṛtṭiḥ nānāprakārā phalārthibhiḥ saṃhitākāraiḥ upadiṣṭā | na eṣā prasiddhā loke, na
paratantreṣu | tasmāt yā paratantreṣu loke ca prasiddhā pravṛtṭiḥ tasyāḥ grahaṇam
bhaviṣyati iti | etat api na | tat yathā ā surāṣṭrāsu kārtikaśuklapratipadaḥ pravṛtṭiḥ
varṣamāsadivasānām, āśvayujaḥ [kṛṣṇa]pañcadaśyām
nivṛtṭiḥ | tathā ca magadhāsu āṣāḍhe kṛṣṇapratipadaḥ samāmāsadivasānām pravṛtṭiḥ,

āṣāḍhasitapañcadaśyām nivṛttiḥ | tathā ca arthaśāstre api abhihitam ā "trīśatam
sacatuṣpañcāśatam ahorātrāṇām karma sāmṃvatsaraḥ, tam āṣāḍhīparyavasānam ūnam
pūrṇam vā dadyāt" iti | siṃharājena sahasrākṣare nibaddham ā

ravyudaye laṅkāyām āṣāḍhīpaurṇamāsyām tu somadine |
kṛtakṛtavarṣaiḥ yātaiḥ śakendrakālāt yugasya ādiḥ ||

iti |

yugādīnām caitraśuklādeḥ pravṛtṭyabhidhānam siddham eva etat |

idānām praṣṭavyam ā siṃharājena na śuklāntaḥ māsaḥ svatanetre pratipāditaḥ, tathā ca
loke śuklāntaḥ eva prasiddhaḥ, horāyām api ā

candrayutāt navabhāgāt māsaḥ śuklāntanāmasamaḥ |

iti |

atra ucyate ā yat tu siṃharājena abhihitam tat svābhiprāyeṇa adhikamāsakāvamānām
yugapat pravṛttatvāt āṣāḍhapaurṇamāsī [taḥ ārabhya caturdaśī] paryantāvasānam
sāmṃvatsaraḥ iti parikalpitaḥ | yadi api ucyate "śuklāntaḥ māsaḥ loke prasiddhaḥ" iti, tat
na | nanu sarveṣu eva deśeṣu māsāḥ | santi ca deśāḥ kṛṣṇāntamāsavayahārāḥ
surāṣṭraprabhṛtayaḥ | yat api ucyate ā

candrayutāt navabhāgāt māsaḥ śuklāntanāmasamaḥ |

iti, asya api anyāḥ eva arthaḥ | candrayutāt navabhāgāt praṣṭuḥ māsaḥ vācyāḥ | [sa

śuklāntena] nāmnā sadṛśaḥ | śuklānte [na] hi māsasya nāmaparijñānam | kṛttikāsu
yuktaḥ candramā asmin sati kārtikaḥ māsaḥ iti ādi |

anyat ca ā śuklāntena māsenā na kadācit api mīnameṣasandhau māsasya varṣasya vā
ante grahāḥ syuḥ |

atra āha yavaneśvaraḥ ā

māse tu śuklapratipatpravṛtte pūrve śaśī mandabalaḥ daśāhe |

iti śuklādiḥ māsaḥ | yadā punar śuklādiḥ māsaḥ tadā punar śrutyarthaḥ anuṣṭhitaḥ
bhavati | evam hi śrutau paṭhyate ā

eṣā hi vai saṃvatsarasya prathamā rātriḥ yat phālgunī paurṇamāsī yā uttarā |

iti | [yadi] kṛṣṇa[pratipad]ādiḥ māsaḥ syāt, tadā katham iyam uttarā paurṇamāsī phālgunī
bhavati, yat uta tat caitramāsaḥ syāt ? kutaḥ? phālgunyām paurṇamāsyām phālgunaḥ
māsaḥ pūrṇaḥ, tadā uttarā paurṇamāsī caitra[māsasya], pratipatkṛṣṇāditvāt māsasya |
tataḥ manyāmahe na adya api phālgunaḥ māsaḥ samāpyate iti | yasmāt āha ā

phālgunī paurṇamāsī yā uttarā |

iti |

anyat ca ā

[yā asau] vaiśākhasya amāvāsyā tasyām agnim ādadhīta, sā rohiṇyā sampadyate |

[śatapatha-brāhmaṇam, 11.1.1.7]

iti |

yadi śuklāntaḥ māsaḥ parikalpyate tadā na vaiśākhasya amāvāsyāyām rohiṇyā
candramasaḥ yogaḥ vidyate | yasmāt caitrapaurṇamāsyām citrāyām somaḥ yujyate,
tasyām caitryām vyatītāyām vaiśākhapratipat | tataḥ ca svātyādiṣu nakṣatreṣu pratipat
[prabhṛti] gaṇyamānā amāvāsyā bharāṇyā yujyate, na rohiṇyā | atha candragativīśeṣāt
iti [cet, na] | nakṣatrārdhasya sakalasya vā hrāsavṛddhī bhavataḥ, na nakṣatradvayasya
| śuklādau punar māse vaiśākhapaurṇamāsyām
vyatītāyām vaiśākhasya eva amāvāsyā bhaviṣyati | tataḥ
kṛṣṇapakṣapratipatprabhṛtyanurādhādiṣu gaṇyamānāsu rohiṇyā amāvāsyāyāḥ ca
yogaḥ sambhavati |

anyat ca ā

saḥ aparapakṣe apa oṣadhīḥ praviśati |

iti |

śatapatha [11.1.5.3] evam paṭhyate | tatra aparapakṣaḥ kṛṣṇaḥ, [na] śuklaḥ | anyat ca
smārtavacanam ā

aparapakṣe śrāddham kurvīta ūrdhvam vā caturthyāḥ |

iti atra kṛṣṇādi[māsatvāt] pūrvapakṣaḥ kṛṣṇaḥ, aparaḥ śuklaḥ | aparatvāt śuklapakṣasya
śuklapakṣe eva śrāddhavidhiḥ prāpnoti na kṛṣṇe, iṣyate ca śukle [tare], tasmāt śuklādiḥ

māsaḥ iti | tataḥ "yugavarṣamāsadivasāḥ samam pravṛttāḥ tu caitraśuklādeḥ" iti |

atra utprekṣitapūrvapakṣaḥ draṣṭavyaḥ | yugādīnām caitra[śuklāditaḥ pravṛtti]tvāt
kālasya ādimattāprasaṅgaḥ iti āha ā kālaḥ ayam anādyantaḥ | ayam kālaḥ asmābhiḥ
yugādiḥ abhihitaḥ, caitraśuklādeḥ pravṛttaḥ iti | na asya antaḥ na asya ādiḥ |
vyavahārārtham ādiḥ antaḥ ca parikalpitaḥ | yadi kālasya ādiḥ syāt tataḥ kim syāt? āha
ā saṃsārasya ādimattā prāpnoti, iṣyate ca anādiḥ saṃsāraḥ iti | tasmāt yuktaṃ "kālaḥ
ayam anādyantaḥ" iti |

katham punar asya ādiḥ vyavahārārtham parikalpitaḥ iti āha ā grahabhaiḥ anumīyate
kṣetre | grahāḥ ca bhāni ca grahabhāni | taiḥ grahabhaiḥ anumīyate ādiḥ antaḥ ca |
"mān māne" [pāṇinīyadhātupāṭhaḥ 1143] iti ayam dhātuḥ dhūmāt agnyanumānam iti
atra māne vartate | atra punar grahabhaiḥ anumīyate iti mānārthaḥ eva |
vīṅhyādirāśayaḥ prasthādibhiḥ anumīyante, kuṅkumādayaḥ vā palādibhiḥ, evam
grahabhaiḥ iti | yadā sarve eva grahāḥ yugapat
mīnameṣasandhau kṣītisaṃyuktāḥ tadā yugasya ādiḥ iti | kaḥ bhuvaḥ grahasya ca
yogaḥ, dvayoḥ atyantaviprakṛṣṭayoḥ? na eṣaḥ doṣaḥ | mukhyasya yugasya
asaṃbhavāt gaṇaḥ yogaḥ parigrhyate | yatra bhūlagnaḥ iva grahaḥ lakṣyate sa
bhūgrahayoḥ yogaḥ | sa ca udayāstamayayoḥ saṃbhavati iti udayāstamayayoḥ vā
parigrhyate |

anye punar anyathā vyāvarṇayanti ā grahabhaiḥ anumīyate iti | grahaiḥ ca nakṣatraiḥ
ca kālasya ādiḥ antaḥ ca parikalpyate | tat yathā ā

udeti yasmin nakṣatre pravāsopagataḥ aṅgirāḥ |

tasmāt saṃvatsaraḥ māsāt bārhaspatyaḥ praganyatām || iti |

bṛhaspaticāravaśāt kālasya ādiḥ parikalpitaḥ | loke ca evam vaktāraḥ bhavanti ā "svātau
udite prasthāsyāmahe udayaḥ " iti, "śukre astam gate prasthitaḥ" iti, "adya kṛttikāsu
madhyasthitāsu dārukaḥ [gataḥ]" iti ādi | kṣetre | kṣetram bhagolaḥ, tasmin bhagole,
nakṣatragrahacāravaśāt ādiḥ antaḥ ca parikalpitaḥ || 11 ||

[grahāṇām samagatitvam]

grahāṇām samagatipratipādanāya āha ā

ṣaṣṭyā sūryābdānām prapūrayanti grahāḥ bhapariṇāham |
divyena nabhaḥparidhim samam bhramantaḥ svakakṣyāsu || 12 ||

ṣaṣṭyā sūryābdānām ādityavarṣāṇām ṣaṣṭyā grahāḥ nakṣatrakakṣyām prapūrayanti,
nakṣatrakakṣyātulyāni yojanāni svāsu svāsu kakṣyāsu gacchanti iti arthaḥ |
[kiyadyojanāni] punar nakṣatrakakṣyāyām grahāḥ sūryābdānām ṣaṣṭyā pūrayanti?
ucyate ā vasuviyadambarākāśarasayamatriśailacandrāḥ [173260008] | na etat
asmābhiḥ nakṣatrakakṣyāpramāṇam dṛṣṭam | kim tarhi? kā eṣā pratipāditā iti? ucyate ā
"bhavāṃśe arkaḥ" [gītikāī, 6] iti | atra katham
punar etena eva nakṣatrakakṣyātulyāni yojanāni gacchanti iti ucyate? yadi khyughr-
tulyaiḥ arkavarṣaiḥ svān-svān bhagaṇān grahāḥ bhuñjante [tadā] ṣaṣṭyā sūryābdaiḥ
kiyantaḥ iti | ṣaṣṭibhāgena api ṣaṣṭyā ekaḥ, punar ṣaṣṭibhāgena ete[ṣām] khyughr-
tulyānām arkavarṣāṇām dvāsaptatisahasrāṇi | evam yathābhāgena avinaṣṭarāśayaḥ
sthāpyāḥ | tataḥ punar api ā yadi ekena bhagaṇena pratisvakakṣyā labhyate [tadā]
ṣaṣṭyabdabhogena kā iti sarvagrahebhyaḥ nakṣatrakakṣyā
labhyate |

divyena nabhaḥparidhim | divi bhavam divyam, yugam iti arthaḥ | katham punar

divyaśabdena yugam abhidhīyate? yasmāt divi sañcaratām grahāṇām ekatra yogah
bhavati, ataḥ [divyam yugam uktam tena] divyena nabhaḥparidhim | nabhasaḥ paridhiḥ
nabhaḥparidhiḥ, ākāśakakṣyā iti arthaḥ | katham idam ucyate? nanu ca viyat
aparimitayojanapramāṇam iti śrūyate | tasya parimitayojanapramāṇam katham kakṣyā
bhavet? ucyate ā viyat asmākam yāvat
divasakaramarīcinidhānam avabhāsayati tāvat viyat iti | ataḥ param ākāśam
aprameyam iti | atra khakakṣyābhidhānena etat pratipādayati, iyatpramāṇam
viyadarkamarīcayaḥ prāpnuvanti iti |

samam bhramantaḥ | tulyayā [gatyā] bhramantaḥ iti arthaḥ | yāvanti yojanāni
svakakṣyāyām śaśī sañcarati tāvanti eva yojanāni ārkiḥ api svakakṣyāyām sañcarati |
tat yathā ā yadi ekena bhagaṇena svakakṣyā labhyate [tadā] yugabhagaṇaiḥ kim iti
khakakṣyā labhyate | athavā ā ṣaṣṭyabdabhogena nakṣatrakakṣyā labhyate svaiḥ
yugabhagaṇaiḥ kim iti khakakṣyā labhyate | evam yojanagatena grahāḥ tulyagatayaḥ |
kakṣyātaḥ grahāṇām madhyamānayanam ā yadi
[yuga]bhūdinaiḥ sarve eva svāsu kakṣyāsu samagatyā bhramantaḥ [kha]kakṣyātulyāni
yojanāni prayānti, ekena ahnā kiyanti iti sarvagrahāṇām yojanagatā dinabhuktiḥ
labhyate iti, khakakṣyāyām bhūdinaiḥ bhāge hr̥te yojanagatā grahāṇām dinabhuktiḥ
labhyate | tayā trairāśīkam bhañktvā madhyamagrahāḥ ānīyante ā yadi
svakakṣyāyojanaiḥ bhagaṇaḥ labhyate tadā gatiyojanaiḥ kim iti āhnikī bhuktiḥ labhyate,
tataḥ punar api ā yadi ekena ahnā bhuktiḥ labhyate ahargaṇena
kim iti | atra ekaḥ pūrvatrairāśīke guṇakāraḥ, [apare bhāgahāraḥ] ataḥ
guṇakārabhāgahārayoḥ tulyatvāt naṣṭayoḥ ahargaṇasya dina[gati]yojanāni guṇakāraḥ
sthitāḥ, [svakakṣyāyojanāni bhāgahāraḥ, labdhiḥ] bhagaṇādayaḥ | [uktam ca] ā
ambarakakṣyā bhūdinahr̥tā phalam tatra yojanāni teṣu |
gatāhasaṃguṇiteṣu svagrahakakṣyāptabhagaṇādyam ||

iti | a[thavā khakakṣyā]hargaṇasaṃvarge svakakṣyābhūdinasamvargahr̥te
bhagaṇādayaḥ bhavanti || 12 ||

[grahāṇām samagatitvena kakṣyāvyavasthā]

samagatyā pravṛttagrahakakṣyāvyavasthāpradarśanārtham āha ā

maṇḍalam alpam adhastāt kālena alpna pūrayati candraḥ |
upariṣṭāt sarveṣām mahat ca mahatā śanaiḥ cārī || 13 ||

maṇḍalam alpam adhastāt | sarveṣām adhaḥ vyavasthitam maṇḍalam alpam alpe[na
kālena pūraya]ti candramāḥ | adhastāt iti anena eva maṇḍalasya alpatvasiddhiḥ, alpam
iti etat na vaktavyam | katham adhastāt iti etāvati ucyamāne maṇḍalasya alpatvam
gamyate? ucyate ā upari upari kakṣyāḥ vyavasthitāḥ | tāsām upari upari
vyavasthitānām adhaḥ yā vyavasthitā sā sarvatanīyasī | tasmāt adhastāt [induḥ] syāt |
na etat asti | "bhānām adhaḥ śanaiḥ cara" [kālakriyāī,
15] iti atra kakṣyāṇām upari upari vyavasthitim vakṣyati | nanu ca anye bruvate ā
sarveṣām upari candramasaḥ kakṣyā iti | [tat ayuktam] sarveṣām grahāṇām adhaḥ
candrakakṣyā iti āha | yadi upari syāt tadā candrasya grahanakṣatrabhede
sphuṭakalaṅkahariṇe grahanakṣatra[tārāḥ dr̥syeran] | sūryavaśāt yadi upari candraḥ
syāt tadā sūryeṇa ārāt vyavasthitena sadā candramasoḥ api svasya ārāt bhāgam
akhaṇḍam dr̥syeta, uparisthitāḥ [na upalakṣyate] | tasmāt sarveṣām
adhaḥ candramāḥ |

anye punar sugata[matā]valambinaḥ sūryācandramasoḥ ekām kakṣyām ācakṣate ā

ardhena meroḥ candrārkaḥ pañcāśatsaika[yojanau] |
ardharātraḥ astagamanam madhyāhnaḥ udayaḥ sakṛt || iti ||

na evam yujyate | yadi pañcāśat yojanāni candraḥ, ekapañcāśat [yojanāni] sūryaḥ tadā
kim iti sūryaḥ [na] mahān upalabhyate, tulyau etau [ardho]ditau ardhāstamitau
paurṇamāsyām lakṣyete? atha vidūrāt vāt arkaḥ na mahān upalakṣyate iti cet na | tarhi
mandarārdhe sūryācandramasoḥ dūrībhūtaḥ arkaḥ | anyat ca
tulyakakṣyāvvyavasthitatvāt sūryācandramasoḥ sūryagrahaṇam na eva syāt | na ca
candramasam muktvā anyāḥ rāhuḥ asti yena savitā chādyate | yadi api adhaḥ candraḥ
syāt tathā api mahattvāt sūryabimbasya na eva arkaḥ sakalaḥ chādyate | na eva arkaḥ
candreṇa chādyate iti cet tat api uttaratra vyākhyāsyate |

kālena alpina pūrayati candraḥ | alpina stokena kālena pūrayati | kim? tat alpam
maṇḍalam adhaḥ vyavasthitam | upariṣṭāt sarveṣām maṇḍalānām mahat maṇḍalam
mahatā kālena śanaiḥ caraḥ pūrayati | etau alpamahatkakṣyāmaṇḍalaparimāṇau
grahau uddiṣṭau, anyeṣām ca [maṇḍalāni svabuddhyā vijñeyāni] | tat yathā ā
candramāḥ divasasaṅkhyayā saptaviṃśatyā sārḍhaikayā maṇḍalam gacchati,
budhaśukraravayaḥ kiñcit ūnena varṣeṇa, bhaumaḥ kiñcit ūnena
varṣadva[yena, guruḥ] tu varṣaiḥ dvādaśabhiḥ kiñcit ūnaiḥ, śanaiścaraḥ tu triṃśatā
varṣaiḥ kiñcit ūnaiḥ iti | evam ete bhinnakakṣyāsthāḥ yojanagatena tulyagatayaḥ grahāḥ
vyākhyātāḥ |

atha yadi tulyakakṣyāsthāḥ yojanagatena tulyagatayaḥ eva syuḥ tadā eteṣām yugādeḥ
saṃpravṛttānām na kadācit viyogaḥ syāt | atha [yadi] yojanagatena ete bhinnagatayaḥ
syuḥ tadā eteṣām bhuktiliptānayane yojanaiḥ yathāsvam prasiddhabhuktiliptāḥ na
āgaccheyuḥ | tasmāt bhinnakakṣyāsthāḥ api grahāḥ yojanagatena tulyagatayaḥ eva iti ||

[bhinnakakṣyāsu rāśyādīnām alpamahattvam]

kakṣyāṇām alpamahattvāt rāśibhāgaliptāḥ bahvyaḥ alpāḥ iti sandehaḥ tannivṛttyartham
āha ā

alpe hi maṇḍale alpāḥ mahati mahāntaḥ ca rāśayaḥ jñeyāḥ |
aṃśāḥ kalāḥ tathā evam vibhāgatulyāḥ svakakṣyāsu || 14 ||

alpe maṇḍale alpāḥ rāśayaḥ mahati maṇḍale mahāntaḥ, evam aṃśāḥ kalāḥ ca,
kevalam tu vibhāgena sadṛśāḥ | tat yathā ā alpe mahati ca maṇḍale
maṇḍaladvādaśabhāgaḥ rāśiḥ, ṣaṣṭīsatatrayabhāgaḥ bhāgaḥ, khakhaṣaḍghanabhāgaḥ
liptāḥ iti, svāsu svāsu kakṣyāsu jyotiścakrasya tulyatvāt || 14 ||

[grahakakṣyāvasthitikramaḥ]

kakṣyāṇām upari adhaḥ ava[sthitik]kramaparijñānāya āha ā

bhānām adhaḥ śanaiścaraśuragurubhaumārkaśukrabudhacandrāḥ |
eṣām adhaḥ ca bhūmiḥ medhībhūtā khamadhyasthā || 15 ||

bhāni jyotīṃṣi, aśvinyādīni | teṣām adhaḥ śanaiścaraḥ, tasya api adhaḥ bṛhaspatiḥ,
tataḥ aṅgārakaḥ iti ādi | eṣām adhaḥ ca bhūmiḥ | eṣām nakṣatrādīnām bhūḥ adhaḥ |
medhībhūtā | atra "bhūta"-śabdaḥ bahuṣu artheṣu vartamānaḥ iva arthe pratipattavyaḥ |
medhī iva sthitā | khamadhyasthā | kham ākāśam tasya madhyam khamadhyam, tasmin
sthitā khamadhyasthā | eṣām adhaḥ ca bhūmiḥ iti | atra ucyate ā yadā dṛśye
cakrārdhe grahanakṣatrāṇi, tadā teṣām adhaḥ bhūmiḥ | yadā ataḥ anyeṣu

grahanakṣatrāṇi smararipusutahibukasahajadhaneṣu vartante tadā katham adhaḥ
bhūḥ, yat uta upari syāt | na evam vijñāyate | yasmāt sarveṣām asmadādīnām bhūḥ
adhaḥ, upari ca ākāśaḥ, [tasmāt] sarvadā grahāḥ upari, bhūḥ adhaḥ | vakṣyati ca ā

yadvat kadambapuṣpagranthaḥ pracitaḥ samantataḥ kusumaiḥ |
tadvat hi sarvasattvaiḥ jalajaiḥ sthalajaiḥ ca bhūgolaḥ || iti |
[golaí, 7]

[anye tu imām kalpanām] dūravipratipannām,
bhagaṇaśanaiḥcarabr̥haspatikujaravisitabudhaniśākarān uparyuparivyavasthitān
tulya[gatikān manyante | tat yathā ā yā]vat alpamaṇḍalam bhāni bhramanti, tāvat
mahānti maṇḍalāni śanaiścarādayaḥ [na] śaknuvanti pūrayitum iti pṛṣṭhataḥ lakṣyante,
yathākakṣyā[maṇḍalakrameṇa] iti | atra parihāraḥ prāk pradarśitaḥ ā yadi upari syāt
tadā candrasya grahanakṣatrabhede sphuṭakalaṅkahariṇe grahanakṣatratārāḥ
kṛśyeran [pṛí 212] iti ādinā granthena |

anye manyante ā tulyakakṣyāsthāḥ eva
bhagaṇaśanaiścarabr̥haspatikujaravisitabudhaniśākarāḥ | kintu yathākrameṇa
śīghragatayaḥ | ataḥ drutagatibhiḥ nakṣatraiḥ īsamandagatiḥ īṣat jīyate, atimandagatiḥ
tu dūrāt iti | īsanmandagatitvāt śanaiścaraḥ īṣat jīyate, atimandagatitvāt candramāḥ
[dū]ram iti | atra api yadi prāṇmukhāḥ grahādayaḥ tadā prāṇmukhaiḥ drutagatibhiḥ
nakṣatraiḥ jīyamānaḥ aśvinyām dr̥ṣṭaḥ revatyām upalakṣyeta, na bharaṇyām |
vakrakāle
api ca, pratilomagatitvāt aśvinyām dr̥ṣṭaḥ bharaṇyām eva upalakṣyeta | atha ete
grahādayaḥ aparābhimukhāḥ kalpyante, tathā api vakrakāle aśvinyām dr̥ṣṭaḥ
pratilomagatitvāt bharaṇyām upalakṣyeta | tulyakakṣyāvyavasthitānām ca
lambanaviśeṣaḥ na syāt | anyat ca ā anyonyabimbacchādanam na syāt | grahoparāgaḥ

api ca tulyakakṣyāvyaavasthitatvāt na yujyate | tasmāt "bhānām adhaḥ śanaiścaraḥ" iti
ādi suṣṭhu uktam || 15 ||

[kālahorādinādhipatijñānam]

kālahorādinādhipatijñāpanāya āha ā

sapta ete horesāḥ śanaiścārādyāḥ yathākramam śīghrāḥ |
śīghrakramāt caturthāḥ bhavanti sūryodayāt dinapāḥ || 16 ||

ete grahāḥ śanaiścārādayaḥ tulyagatayaḥ api santaḥ yathākrameṇa śīghrāḥ lakṣyante,
maṇḍalānām yathākrameṇa alpatvāt | te eva horesāḥ yathākrameṇa | tat yathā ā
śanaiścārasya kālahorāyām nivṛttāyām bṛhaspateḥ kālahorā, tataḥ aṅgārakasya, tataḥ
raveḥ iti ādi | evam sūryodayāt prabhṛti yāvat sūryasya ardhāstamayaḥ iti dvādaśa
kālahorāḥ | tataḥ ca ardhāstamayāt ardhodayaḥ iti punar dvādaśa | evam ahorātre
caturviṃśatikālahorāḥ | kālahorā hi nāma lagnarāśeḥ
ardhodayasya kālah | sā ca divase divase divasādhipātaḥ prabhṛti pratipattavyā | uktam
ca sphujidhvajayavaneśvareṇa ā

ādityaśukrendujacandrasaurajīvāvaneyāḥ syuḥ aharniśāsu |
horesvarāḥ taddivasādhipādikrameṇa tāḥ tatra caturguṇāḥ ṣaṭ ||

evam divasādhipāt sūryodayāt gaṇyamānāt uttaradivasasya adhipāt eva ardhodayāt
śīghrakramāt caturthaḥ, yaḥ śīghrakramaḥ abhihitaḥ "bhānām adhaḥ śanaiścaraḥ" iti
ādi tasmāt caturthaḥ divasādhipatiḥ | tat yathā ā śanaiścārāt caturthaḥ sūryaḥ
divasādhipatiḥ, sūryāt somaḥ caturthaḥ, somāt aṅgārakaḥ iti ādi | evam anena krameṇa
māsādhipāḥ abdhādhipāḥ ca avagantavyāḥ | katham? [māsasya varṣasya ca yaḥ]

prathamadivase adhipaḥ sa māsādhipaḥ varṣādhipaḥ ca
| sūryodayāt dinapāḥ | sūryasya udayaḥ sūryodayaḥ | yadi api śeṣeṇa uktaḥ
sūryodayaśeṣeṇa ardhodayaḥ pratipattavyaḥ | kutaḥ? idam bimbāvayavābhidhāne api
tadavayavapramāṇasya mānakālāvadhāraṇāśakyatvāt ardhodayasya ca
vyaktalakṣaṇatvāt supericchedanayā ardhodayaḥ āśriyate | athavā anirdiṣṭeṣu vastuṣu
madhyamapratipatteḥ ardhodayāt ārabhya punar ardhodayaḥ iti |

atra kecit ardhāstamayāt vārapravṛttim manyante | tat ca ayuktam | yasmāt uktam ā

āsīt idam tamobhūtam aprajñātam alakṣaṇam |
apratarkyam avijñeyam prasuptam iva sarvataḥ ||
[manusmṛtiḥ, 1.5]

atra janapadajyotiścakrābhāvāt na vārādivyavahāraḥ sañjātaḥ | yadā protpannaḥ
sahasrakiraṇaḥ tadā prabhṛti vārādivyavahāraḥ sañjātaḥ iti | ataḥ suṣṭhu uktam
sūryodayāt dinapāḥ iti || 16 ||

[pratimaṇḍalavidhinā grahagatinirūpaṇam]

ete grahāḥ kasmin maṇḍale bhramanti iti [na jñāyate] ataḥ tannirūpaṇāya āha ā

kakṣyāpratimaṇḍalagāḥ bhramanti sarve grahāḥ svacāreṇa |
mandoccāt anulomam pratilomam ca eva śīghhrocāt || 17 ||

kakṣyāyāḥ pratimaṇḍalam kakṣyāpratimaṇḍalam, tat gacchanti iti
kakṣyāpratimaṇḍalagāḥ | athavā kakṣyā ca pratimaṇḍalam ca kakṣyāpratimaṇḍale, te
gacchanti iti kakṣyāpratimaṇḍalagāḥ | atra kakṣyāgāḥ madhyamāḥ grahāḥ, sphuṭāḥ

[prati]maṇḍalagāḥ | athavā kakṣyāpratimaṇḍalayoh yatra sampātaḥ sa
kakṣyāpratimaṇḍalaśabdena ucyate | tam gacchanti iti kakṣyāpratimaṇḍalagāḥ | atra
anekatvāt vighrayogasya, katamaḥ vighraḥ parigr̥hyate iti sandehe
ucyate ā kakṣyā ca pratimaṇḍalam ca kakṣyāpratimaṇḍale | te gacchanti iti
kakṣyāpratimaṇḍalagāḥ, iti ayam parigr̥hyate | katham? iṣṭatvāt
śeṣavighrārthavācakatvāt ca atra iṣyate | kakṣyāgāḥ madhyamāḥ grahāḥ yasmāt
tulyabhuktayaḥ, pratimaṇḍalagāḥ sphuṭagrahāḥ yataḥ sasadr̥śabhuktayaḥ |

atha ke te madhyamāḥ, ke vā sphuṭāḥ grahāḥ? nanu ca ekaḥ eva sūryaḥ, ekaḥ eva
candramāḥ, ekaḥ eva aṅgārakaḥ iti ādi | madhyamasphuṭatāyām parigr̥hyamāṅyām
grahadvayam prāpnoti | na evam vijñāyate madhyamaḥ grahaḥ sphuṭaḥ grahaḥ iti |
katham tarhi? madhyamagrahaśabdena madhyamagrahasya grahagatiḥ abhidhīyate,
sphuṭagrahaśabdena ca sphuṭagrahagatiḥ iti? tat yathā ā kaścit sām̐vatsaram p̥cchati ā
"kaḥ savitā" iti, sa tasmā āha ā rāśiḥ
ekaḥ pañcadaśa bhāgāḥ triṁśat liptāḥ iti | tatra yaḥ parip̥cchati yaḥ ca ācaṣṭe tayoh
ubhayoh abhi[prāya]dvayaprasaṅgaḥ | na eṣa doṣaḥ | yā madhyamā gatiḥ sā
sphuṭagatisādhanasya upāyaḥ | anyathā aniyatatvāt sphuṭagatiḥ aśakyā syāt vijñātum |
evam eva ca [madhyamagrahaḥ] pratimaṇḍalaparijñānārtham parikalpitaḥ | yat asya
grahasya vyāsārdhatulyam bhūtārāgrahavivaram sa tasmāt pradeśāt prabhṛti
kakṣyāmaṇḍalasya upari adhaḥ vā avatiṣṭhate |

atha kaḥ asau ayam pradeśaḥ? ucyate ā yadā tr̥tīye karmaṇi dviṭīye pade
mandoccakendram rāśitrayam dvau bhāgau pañcāśat liptāḥ, tadā bṛhaspateḥ
mandoccakarṇaḥ vyāsārdhatulyaḥ | caturthe karmaṇi yadā śīghroccakendram
rāśitrayam pañcabhāgāḥ viṁśatiḥ ca kalā, tadā vyāsārdhatulyaḥ śīghroccakarṇaḥ | atra
vyāsārdhatulyam bhūtārāgrahavivaram | asmāt pradeśāt prabhṛti bhūtārāgrahavivaram
pratidinam apaciṣyate | anayā yuktyā śeṣāṅām api grahāṅām

vyāsārdhatulyam bhūtārāgrahavivaram ūhyam |

bhramanti sarve grahāḥ svacāreṇa iti etat nigadavyākhyānam eva | mandoccāt anulomam | "mandoccāt" iti hetau pañcamī | tena mandoccāt hetoḥ anulomam iti vyākhyāyate, yasmāt na mandocce vakraparijñānam | pratilomam ca eva śīghroccāt | śīghroccāt hetoḥ pratilomam, yasmāt śīghrocce vakraparijñānam | katham punar śīghrocce vakraparijñānam? ucyate ā yadā śīghroccakendram dvitīyapade tadā sarve grahāḥ vakriṇaḥ bhavanti, yadā ca tṛtīyapade śīghroccakendram tadā anuvakragatayaḥ | uktam ca ā

grahonaśīghragraheṣu kṛtaṣaḍvasuṣu kramāt |
bhavet vakrātivakrā ca tathā anukuṭilā gatiḥ ||

iti | sūkṣmataraḥ [ca ayam] vidhiḥ iti | ucyate ā yadā adyatanāt grahāt śvastanaḥ grahaḥ tulyaḥ bhavati tadā vakraprārambhaḥ | athavā hyastanāt grahāt adyatanāḥ grahaḥ tulyaḥ tadā api vakraprārambhaḥ | yadā adyatanāt tṛtīyapade śvastanaḥ grahaḥ adhikaḥ tadā vakrasya nivṛtṭiḥ | athavā hyastanāt grahāt adyatanāḥ grahaḥ adhikaḥ tṛtīyapade tadā api vakrasya nivṛtṭiḥ | yadā grahaḥ bahvīḥ liptāḥ nivartate tadā ativakragatiḥ |

katham punar idam vidhānam śīghroccāt eva gaṇakaḥ prajānate, na punar mandoccāt iti? ucyate ā yasmāt sūryavaśāt grahāṇām udayāstamayavakrānuvakrāḥ gatayaḥ | yadi evam atra katham budhaśukrayoḥ anyat śīghroccam, [madhyaḥ] sūryaḥ | atra api sūryavaśāt eva tayoḥ udayāstamayaparijñānam | vakragatiḥ tu ekatvāt upāyāntareṇa vijñāyate | athavā uccanīcamadhyamaparidhiḥ iti
evamādisphuṭagatisādhanopāya[bhūtānām ca] upāyānām na [eva niyamo]ktiḥ
vā vidyate | kevalam tu upeyasādhakāḥ upāyāḥ | tasmāt iyam sarvā prakriyā asatyā,
yayā grahāṇām sphuṭagatiḥ sādhyate | [evam ca paramārthajijñāsuhīḥ asatyopāye]na

satyam pratipadyate | tathā hi bhiṣajaḥ hi utpalanālādiṣu vadhādīni abhyasyante |
nāpitāḥ piṭharādiṣu muṇḍanādīni, yajñasāstravidyaḥ śu[ṣkeṣṭyā] yajñādīni, śābdikāḥ
prakṛtipratyayavikārāgamavarṇalopavyatyayādibhiḥ śābdān pratijānate | evam atra api
madhyamamandoccaśīghroccatatparidhijyākāṣṭhabhujākoṭīkarṇādi-vyavahāreṇa
sāṃvatsarāḥ grahāṇām sphuṭagatim pratijānate | tasmāt upāyeṣu asatyeṣu
satyapratipādanapareṣu na codyam asti |

atha kim artham ime grahāḥ pratidinam bhrāmyanti | atha ca loke kaścit bhraman
kāraṇena bhramati | anyat ca ā na evaṃvidhaḥ kaścit dr̥śyate anavaratagatiḥ yathā ime
tārāgrahāḥ bhramanti iti dr̥ṣṭāntatvena udāharaṇabhūtaḥ iti | ucyate ā sarvādau kila
bhagavān prajāpatiḥ grahān uktavān yat "bhavantaḥ meṣādigaṇeṣu prajānām
śubhāśubhaphalāya bhrāmyata" iti | uktam ca sphujidhvajayavaneśvareṇa ā
prajāḥ sisṛkṣuḥ kila viśvadhātā
prajāpatiḥ prāgvratam ācacāra |
sa dvādaśāṅgaprabhavam svadeham
sr̥ṣṭvā āditaḥ vai bhagaṇam sasarja ||
tebhyaḥ sa meṣādigaṇān prajājñe
tebhyaḥ ca tadbhedavikalpataḥ anyān |
ataḥ bhavargasya vibhuḥ praṇetā
prajābhavābhāvavidhīśvaratvam || iti ādi |

athavā śabdena arthānumānam kriyate | śrūyante ca śābdāḥ ye ca apare atra
gativācakāḥ | tat yathā ā "panthaḥ ṣkan" [aṣṭādhyāyī, 5.1.75] iti vartamāne "panthaḥ ṇa
nityam" [aṣṭādhyāyī, 5.1.76] iti anena nityam panthānam gacchati iti asmin arthe
pānthaḥ iti ayam śabdaḥ | atra loke na kaścit adhvānam anavaratam gacchan dr̥śyate,
tasmāt amī eva grahāḥ pānthāḥ | na ca ayam śabdaḥ asatsvārtheṣu
śāśaviṣāṇakūrmaromavandhyāputraśabdavat pravṛttaḥ | tasmāt

suṣṭhu ucyate śabdena arthānumānam pānthāḥ grahāḥ iti |

athavā ayam aparāḥ prakārah | mandoccāt anulomam pratilomam ca eva śīghroccāt |
mandoccāt yataḥ mandoccakendrāt pratimaṇḍalavidhānena ānītam phalam pratyaham
upacīyate | kva? anyasya aśrutatvāt mandocce eva | tasmāt mandoccāt anulomam |
pratilomam ca eva śīghroccāt | yasmāt pratimaṇḍalavidhānena ānītam phalam sarvadā
apacīyate | kutaḥ? anyasya aśrutatvāt śīghroccāt eva | tasmāt "pratilomam ca eva
śīghroccāt" iti || 17 ||

[pratimaṇḍalavidhānam]

sphuṭāḥ pratimaṇḍale bhramanti iti uktam, ataḥ tajjñāpanāya āha ā

kakṣyāmaṇḍalatulyam svam svam pratimaṇḍalam bhavati eṣām |
pratimaṇḍalasya madhyam ghanabhūmadhyāt atikrāntam || 18 ||

kakṣyāmaṇḍalatulyam | kakṣyāmaṇḍalena tulyam kakṣyāmaṇḍalatulyam |
kakṣyāmaṇḍalapramāṇam "śaśirāśayaṣṭha cakram" [gītikāī, 6] iti etasmin sūtre
vyākhyātam | svam svam pratimaṇḍalam ātmīyam ātmīyam pratimaṇḍalam, bhavati |
eṣām grahāṇām | pratimaṇḍalasya madhyam | yat madhyam kendram tat
ghanabhūmadhyāt atikrāntam | ghanāḥ ca asau bhūḥ ca ghanabhūḥ, tasyāḥ
ghanabhuvāḥ madhyam ghanabhūmadhyam, tasmāt ghanabhūmadhyāt,
atikrāntam nirgatam uparisthitam iti arthaḥ | tat yathā ā yāvat pramāṇaparikalpitam
ṣaṣṭīsatatrayāṃśāvachchinnam kakṣyāmaṇḍalam pūrvāparam ūrdhvam vinyasya, tādrś
eva anyat maṇḍalam upari adhaḥ kakṣyāmaṇḍalāt vakṣyamāṇena antareṇa
pūrvāparayoḥ diśoḥ yatra sampātaḥ tatra yat badhyate gole tatpratimaṇḍalam nāma |
evam ete kakṣyāpratimaṇḍale vyākhyāte || 18 ||

[nīcoccavṛttividhinā grahagatipratipādanam]

kakṣyāpratimaṇḍalāntarapratipādanārtham āha ā

pratimaṇḍalabhūvivaram vyāsārdham svoccanīcavṛttasya |
vṛttaparidhau grahāḥ te madhyamacārāt bhramanti evam || 19 ||

pratimaṇḍalasya bhūmaṇḍalasya ca vivaram pratimaṇḍalabhūvivaram | vyāsārdham
svoccanīcavṛttasya | uccavṛttam nīcavṛttam ca uccanīcavṛttam, svasya uccanīcavṛttam
svoccanīcavṛttam, tasya svoccanīcavṛttasya vyāsārdham pratimaṇḍalabhūvivaram | tat
yathā ā "jhārdhāni mandavṛttam" iti adhikṛtya "śaśinaḥ cha" [gītikāī, 10] iti sapta śaśinaḥ
jhārdhāni uccanīccavṛttam, sārdhaikatrimśadbhāgapramāṇam iti arthaḥ | yasya yat
vyāsārdham tat trairāśikagaṇitena
siddham | yadi "caturadhikam śatam aṣṭaguṇam" [gaṇitaī, 10] iti evamādeḥ paridheḥ
ayutatulyam vyāsārdham labhyate tadā sārdhaikatrimśadbhāgapramāṇasya paridheḥ
kim iti labdham bhāgāḥ pañca, liptā ca ardhādhikena ekā | sūryasya api trīṇi jhārdhāni
mandavṛttam, sārdhatrayodaśabhāgapramāṇam, tasya ca trairāśikena
svavṛttaviṣkambhārdham labdham bhāgadvayam, ardhādhikena nava liptāḥ | athavā ā
yadi ṣaṣṭīśatatraya[bhāgamita]paridheḥ [vasutrikṛtavahniliptāmitam]
vyāsārdham labhyate tadā uccanīcaparidheḥ kim iti labdham candrasya
uccanīcavyāsārdham liptātriśatī sārdhādhikarūpā | evam sūryasya api śatam
ekonatriṃśaduttaram [sārdham] | tatra bhāgapramāṇena liptāpramāṇena vā
kakṣyāpratimaṇḍalamadhyāntaram parikalpyam | evam sūryācandramasoḥ | anyathā
anyeṣām samaviṣamavṛttamandoccaśīghroccabhedena
anekapratimaṇḍalaprasaṅgabhayāt uttaratra vakṣyati ā "bhūtārāgrahavivaram"
[kālakriyāī, 25] iti | vṛttaparidhiḥ

kakṣyāmaṇḍalam, tasmin vṛttaparidhau madhyamacāram grahāḥ bhramanti |
pratimaṇḍaleṣu sphuṭacāram bhramanti iti arthāt avasīyate || 19 ||

[nīcoccavṛttaparidhau grahagatiḥ]

grahabhuktyānayanavakrānuvakraparijñānāya āha ā

yaḥ śīghragatiḥ svoccāt pratilomagatiḥ svavṛttakakṣyāyām |
anulomagatiḥ vṛtte mandagatiḥ yaḥ grahaḥ bhavati || 20 ||

śīghrā gatiḥ yasya tat śīgrahgatiḥ, śīghragatiḥ ca tat svoccam ca śīghragatiḥ svoccam,
śīghratatiḥsvoccāt yaḥ pratilomagatiḥ śīghragatiḥ | svoccaśabdena svaśīghroccabhuktiḥ
parigrhyate | sā yadi śīghroccabhuktiḥ
svakendrāntajyā[sādhitasphuṭamadhyā]mabhukteḥ [na patati] tadā sā eva
sphuṭamadhyamā bhuktiḥ svakendrāntajyāsādhitā svaśīghroccabhukteḥ pratilome[na]
pātyate | tadā śīghragatiḥ svoccatatiḥ iti ucyate | pratilomaśabdena ca
viparītapātitaśeṣalīptāḥ
parigrhyante | evam ayam vigrahārthaḥ niṣpannaḥ bhavati | pratilomā gatiḥ yasya saḥ
pratilomagatiḥ iti |

āditaḥ eva etat bhuktyānayanam prati vakṣyate | tat yathā ā mandoccakendrāntajyām
krameṇa utkrameṇa vā niṣpannām svamadhyamabhuktilīptābhiḥ guṇayet | punar ca tat
kālapratidhinā guṇitasya aṣṭādaśabhiḥ sahasraiḥ bhāgalabdham kendrapadavaśāt
ardhīkr̥tya grahamadhyamabhuktilīptāsu prakṣipyā viśodhya vā
svaśīghroccabhuktilīptābhiḥ śodhayet | śeṣam
svaśīghroccakendrāntajyākramotkramajyāguṇam tat kālaśīghroccaparidhinā guṇayet |
bhāgaḥ aṣṭādaśabhiḥ

sahasraiḥ | labdham vyāsārdhagatam svakarṇena vibhajet | labhdasya ardham
kendrapadavaśāt grahamadhyamabhuktiliptāsu kṣipet, viśodhayet vā | tataḥ tam
kṣiptaviśodhitaśeṣam gr̥hītvā tṛtīyakarma ā mandoccakendrāntajyākramotkramajyām tat
kālaparidhiguṇam aṣṭādaśabhiḥ sahasraiḥ vibhajet | labdham samastam eva
grahamadhyamabhuktiliptāsu mandakendrapadavaśāt kṣipet, viśodhayet vā | kṣiptam
viśodhitaśiṣṭam vā sphuṭamadhyamabhuktiliptāḥ avinaṣṭāḥ
tāḥ svaśīghroccabhuktiliptābhyaḥ viśodhayet | śeṣam [gr̥hītvā] caturthakarma ā
śīghroccakendrānta[jyākramotkrama]jyām tat kālaparidhiguṇam aṣṭādaśabhiḥ sahasraiḥ
vibhajet | labdham vyāsārdhaguṇam karṇena vibhajet | tatra yad avāptam tat yadi
kṣepyam sphuṭamadhyamabhuktiliptāsu kṣipet, niṣpannā grahasya sphuṭabhuktiḥ | atha
viśodhyam sad yadi sphuṭamadhyamabhuktitaḥ na patati tadā pratilomagatiḥ grahaḥ
sphuṭamadhyamabhuktiliptāḥ eva viparītam
śodhyāḥ | śeṣam vakrabhogāḥ | asmin arthe iyam kārikā ā
yaḥ śīghragatiḥ svoccāt pratilomagatiḥ svavṛttakakṣyāyām |

pratilomagatiḥ vakragatiḥ iti arthaḥ |

anulomagatiḥ vṛtte | asau anulomagatiḥ bhavati | yadā śīghroccāt
śīghroccakendrāntajyāniṣpannā liptāḥ sphuṭamadhyamabhuktiliptābhyaḥ viśuddhāḥ,
tadā asau grahaḥ anuvakrī | tatra ca viśeṣaliptāḥ anulomaśabdavācyāḥ | tataḥ arthāt
ayam vigrahaḥ avasitaḥ ā anulomā gatiḥ yasya sa anulomagatiḥ iti | sa ca alpam
gacchati iti mandagatiḥ abhidhīyate || 20 ||

[nīcocavṛttabhramaṇaparakārāntaram]

grahāṇām sphuṭīkaraṇaparakārāntaram āha ā

anulomagāni mandāt śīghrāt pratilomagāni vṛttāni |
kākṣyāmaṇḍalalagnasvavṛttamadye grahaḥ madhyaḥ || 21 ||

anulomam gacchati iti anulomagatiḥ | tat uktam ā mandāt, uktamandoccāvadheḥ
madhyamāt iti | tat atra api śīghroccāvadheḥ madhyamāt iti etat ekaprakrameṇa
bhavitavyam | na iti āha ā śīghrā[ṭ pratilomaga]tiḥ pratilomāvadheḥ | śīghroccasya
pratilomagatīni viparītagatīni yāni vṛttāni paridhayaḥ | atra vṛttasya ekadeśe
vṛttaśabdopa[cārāt paridhayaḥ ca] iti, yathā mandaśīghrakendrayoḥ tajjyākāṣṭhe
dhanūṃṣi | ataḥ tāni dhanūṃṣi mandakendrāt jātāni krameṇa
upa[cīyante, śīghrakendrāt] jātāni utkrameṇa upacīyante | ataḥ "anulomagāni mandāt
śīghrāt pratilomagāni vṛttāni" | katham punar vṛttāni mandaśīghrakendrayoḥ
tajjyādhanūṃṣi kramotkrama[gatīni? gate]ḥ avasthāvācakatvāt | yathā ā

gatiḥ asti iti bhūtānām sukumārāyate manaḥ |
[anastvaniśam eva ūḍham dhuram] vahati gauḥ iva ||

tathā ā

dānam bhogaḥ nāśaḥ tisraḥ gatayaḥ bhavanti vittasya |
yaḥ na dadāti na bhunkte tasya tṛtīyā gatiḥ bhavati ||
[bharṭṛhariḥ, nītiśatakam, 34]

tasmāt yāni eva jyādhanūṃṣi tāni eva pratilomānulomagatīni |

atha atra idam praṣṭavyam ā mandoccajyādhanūṃṣi mandoccāt upacīyante,
śīghroccajyādhanūṃṣi śīghroccāt apacīyante | kutaḥ etat? sampradāyāvicchedāt | atha

"vyākhyānataḥ viśeṣapratipattiḥ, na hi sandehāt alakṣaṇam" [aṣṭādhyāyī, śivasūtram 6, pātañjalamahābhāṣyam] iti | athavā mandoccaśīghroccaśravaṇāt mandoccaśīghroccayoḥ eva pratipattiḥ, anyasya aśrutatvāt ca |

[pratimaṇḍalavidhinā grahasphuṭīkaraṇaparakriyā]

ayam āryāsūtrārthaḥ yathā ghaṭate tathā karmaṇā pratipādayiṣyāmaḥ | iṣṭāt grahāt tat mandoccam viśodhayet | śeṣam rāśyādikam mandoccāt pravṛttam tat kakṣyāmaṇḍalotpannam iti pratimaṇḍale kriyate, yasmāt pratimaṇḍale sphuṭagrahaḥ bhramati | tena tasmāt mandoccāt ārabhya yat kāṣṭham tat mahati maṇḍale alpam bhavati | "mahati mahāntaḥ ca rāśayaḥ jñeyāḥ | aṃśāḥ kalāḥ tathā evam [kālakriyāī, 14] iti | alpe pratimaṇḍale tat eva kāṣṭham bahutaram bhavati, mānālpavāt | vrīhyādayaḥ mahatā mānaviśeṣeṇa pramīyamānāḥ prasthādisaṅkhyayā alpāḥ bhavanti, [te] eva alpena mānaviśeṣeṇa mīyamānāḥ prasthādisaṅkhyayā bahavaḥ bhavanti evam atra api | katham punar tat kāṣṭham kakṣyāmaṇḍalotpannam pratimaṇḍale pramīyate? ucyate ā tat kāṣṭhasya padāni vyatītāni pratyākalayya vartamānapadasya bhujākoṭijyayā karma idam kriyate ā "pratimaṇḍalasya madhyam ghanabhūmadhyāt atikrāntam" [kālakriyāī, 18] iti pratimaṇḍalabhūvivaram koṭyām prathamacaturthayoḥ padayoḥ prakṣipyate, dvitīyatrīyayoḥ apanīyate |

etat pratipādanārtham samāyāmanau vṛttakendram nidhāya yāvat tāvat pramāṇaparikalpitavyāsārdhapramāṇena karkaṭakena vṛttam ālikhet | tasya vṛttasya pūrvāpara[dakṣiṇottara]lekhe kṛtvā [tadvṛttakendrāt antya]phala[jyā]pramāṇam [sūtram mandoccābhimukham] dakṣiṇena nidhāya tatra kakṣyāmaṇḍalavyāsārdhatulyakarkaṭakena vṛttam ālikhet | tat pratimaṇḍalam iti ucyate | [tat prathamacaturthapadayoḥ] kakṣyāmaṇḍalāt upari avatiṣṭhate, dvitīyatrīyayoḥ

adhah | tatra yā koṭijyā sā kaksyāmaṇḍalotpannā

kaksyāmaṇḍalabhūmyantarālapramāṇā | tena pratimaṇḍalabhūvivarāntarālamātreṇa
pratimaṇḍalam prathamacaturthayoḥ padayoḥ koṭiḥ na prāpnoti iti prakṣipyate,
dviṭiyatrṭiyapadayoḥ tāvatā atītāt pratimaṇḍalāt koṭiḥ iti apanīyate | evam
pratimaṇḍalotpannā koṭiḥ bhavati | atha yadi koṭi[jyātaḥ] pratimaṇḍalabhūvivaram na
śudhyati, tadā pratimaṇḍalabhūvivarāt koṭijyā śodhyate | tāvatī pratimaṇḍalakoṭiḥ
bhavati

| tatra evam niṣpannāyāḥ koṭeḥ bhujajyāyāḥ ca vargasamāsamūlam karṇaḥ | tat
sūkṣmārthibhiḥ aviśiṣyate, pratimaṇḍalakarṇasya vṛddhīhrāsavaśāt drṣṭiḥ bhidyate iti |
tat yadi vyāsārdhatulyena pratimaṇḍalakarṇena yathā uktam pratimaṇḍalabhūvivaram
labhyate tadā tena pratimaṇḍalakarṇena kim iti | labdham pūrvakoṭijyāyām prakṣipyate
apanīyate vā | tataḥ tadbhujajyāvarga[samāsa]mūlam karṇaḥ | tena punar
pratimaṇḍalabhūvivarānayanam iti yāvat aviśeṣaḥ | tataḥ
aviśiṣṭakarṇena vyastatrairāśīkam kriyate ā yadi vyāsārdhaviṣkambhasya
kaksyāmaṇḍalasya iyam bhujajyā labhyate, tadā tena karṇena pratimaṇḍalajena kā iti |
vyastatrairāśīkatvāt vyāsārdham guṇakāraḥ, karṇaḥ bhāgahāraḥ, labdham
pratimaṇḍalabhujajyā | tat kāṣṭham mandocce prakṣipyā sphuṭaḥ grahaḥ bhavati, yasya
mandoccakendram prathamapade | dviṭiyapade ṣaḍbhyaḥ rāśibhyaḥ viśodhya bhujā
grhītā iti ṣaṇbhyaḥ apanīyate, śeṣam mandocce prakṣipyate |
trṭiyapade cakrārdhādhikabhujā iti tat cāpam cakrārdhasahitam mandocce prakṣipyate |
caturthapade dvādaśebhyaḥ viśuddhaśeṣam bhujā iti cakrāt tat kāṣṭham viśodhya
śeṣam mandocce prakṣipyate | evam sphuṭagrahaḥ bhavati, yasya śīghroccam na
vidyate |

yeṣām punar śīghroccam vidyate teṣām karmaviśeṣaḥ ucyate | tat yathā ā
paridhicālanāprayogeṇa sphuṭīkr̥taparidhinā vyāsārdham samguṇayya aśītyā
bhāgalabdham pratimaṇḍalabhūvivaram mandaśīghroccayoḥ | tena

anantarābhihitamandoccakarmaṇā mandocca[phalam] sādhayet | [tat] sakalasaṃskṛtaḥ
grahaḥ bhavati | tat evam niṣpannasya, madhyamasya grahasya [ca] yat antarārdham
tat madhyamāt mandoccasiddhe adhike madhyamagrahe dhanam, ūne ṛṇam
| evam mandoccasam[skaraṇam] | etat eva karma "śanigurukjeṣu mande ardham
ṛṇadhanam bhavati pūrvam" [kālakriyāī, 22] iti anena granthena abhidhīyate | katham?
sanigurukjeṣu, mandāraguruṣu madhyameṣu madhyamakarmaṇā siddheṣu
mandāraguruṣu iti arthaḥ | "ardham ṛṇadhanam bhavati pūrvam" [kālakriyāī, 22] iti
kasya ardham ṛṇam dhanam vā bhavati iti atra sampradāyāvicchedāt
mandasiddhamadhyamāntaram pariḡṛhyate | kim tasya ardham madhye grahe
dhanam ṛṇam vā pūrvasiddhe mandoccakarmaṇi bhavati? idam ca karma
mandoccaśīghrocayoḥ sāmānyena prasiddham | kutaḥ? viśeṣānuvādanā[bhāvā]t | tat
yathā ā evam ardhena phalena saṃskṛtam madhyamam graham śīghrocāt grahāt
viśodhayet | tatra kendrapadavibhāgena bhujākoṭijye ḡṛhītvā
sphuṭīkṛtasvaśīghroccaparidhinā vyāsārdham saṃguṇayya aśītyā
bhāgalabdhapratimaṇḍalabhūvivareṇa pūrvakarmanā eva saṃskṛtāt karṇam ānayet |
atra aviśeṣābhāvāt
aviśeṣakarma na pravartate | tataḥ bhujajyayā vyāsārdham saṃguṇayya karṇena
bhāgalabdhasya kāṣṭham śīghroccakendre prathamapade śīghrocāt apanīyate, dvitīye
pade ṣaḍbhyaḥ viśodhya śeṣam śīghrocāt apanīyate | tṛtīye pade cakrārdhayuktam,
caturthe pade dvādaśabhyaḥ viśuddhaśeṣam, "śīghrāt pratilomagāni vṛttāni" iti vacanāt |
evam śīghroccasakalaphalasaṃskṛtaḥ grahaḥ bhavati | tasya mandoccasiddhasya ca
pūrvavat eva antarārdham mandoccasiddhe pūrvakalpanayā
eva dhanam ṛṇam vā kuryāt | tat mandaśīghra[siddha]m avinaṣṭam vidhāya tasmāt
mandoccam viśodhya pūrvavat eva mandoccam sādhayet | tasya mandoccasiddhasya
dvisaṃskṛtasya avinaṣṭasthāpitasya ca yaḥ viśeṣaḥ tam sakalam eva
dvisaṃskṛtahīnamadhyamāt viśodhayet, adhikamadhyame prakṣipet | [arthāt
dvisaṃskṛtamandasiddhe ūne sati viśodhayet anyathā prakṣipet] | tam evaṃskṛtam

śīghroccāt viśodhya śīghroccaprasiddhakarmaṇā saṃsiddhaḥ sphuṭaḥ grahaḥ
bhaviṣyati

iti | etat eva karma saṃkṣepeṇa asmābhiḥ karmanibandhe uktam ā

pratimaṇḍalakarma api yojyam atra vipaścitā |
mandocce pūrvavat kuryāt śīghroccāt tat viśodhyate ||
tat eva kevalam śodhyam [cakrārdhāt śodhya tat calāt] |
cakrārdhasaṃyutam cāpam cakrāt śuddham ca śeṣayoḥ ||
sphuṭavṛttaguṇām trijyām bhaktvā aśītyā svakoṭitaḥ |
tyaktvā padeṣu yuktvā vā karṇaḥ prāgvat prasādhyate |
mandoccasiddhatanmadhyaviśleṣārdhasamanvitaḥ |
mandasiddhe adhike hīne rahitaḥ madhyamaḥ grahaḥ ||
sa śīghroccāt punar sādhyāḥ siddhayoḥ antarālam |
ardhīkr̥tya sakṛt siddhe pūrvavat parikalpayet ||
evamkṛtasya bhūyaḥ api mandasiddhim samācaret |
mandasiddhasya tasya ayam viśeṣaḥ yaḥ abhidhāsyate ||
dvisiddhamandasiddhasya dvisiddhasya yat antaram |
prāgvat tat madhyame kṛtvā śīghrasiddhaḥ sphuṭaḥ grahaḥ ||
[mahābhāskarīyam, 4.45-51]

atra śanigurukujagrahaṇam śīghroccavat grahapratipādanārtham | tena budhaśukrayoḥ
api idam karma kriyate |

kakṣyāmaṇḍalalagnasvavṛttamadye | kakṣyāmaṇḍale lagnam kakṣyāmaṇḍalalagnam |
kim tat? svavṛttamadyam, svavṛttamaṇḍalamadyam | kakṣyāmaṇḍalalagnam ca tat
svavṛttamadyam ca kakṣyāmaṇḍalalagnasvavṛttamadyam | tasmin
kakṣyāmaṇḍalalagnasvavṛttamadye | grahaḥ madhyaḥ | yaḥ asau madhyaḥ grahaḥ sa

kakṣyāmaṇḍalalagnasvavṛttamadye bhavati | etat uktam bhavati ā
kakṣyāpratimaṇḍalayoh yatra sampātaḥ tatra yaḥ asau madhyamagrahaḥ,
sa eva sphuṭaḥ iti |

[grahasphuṭikaraṇe anyeṣām matapradarśanam]

atha anye anyathā vyākhyānam kurvanti | anulomam gacchanti iti anulomagāni | kāni?
vṛttāni, paridhayaḥ iti arthaḥ | mandāt | mandocāt prabhṛti yāni mandocavṛttāni
mandocāt ārabhya anulomam gacchanti, yasmāt mandocakendram ahar ahar
upacīyate | śīghrāt pratilomagāni | śīghrāt śīghrocāt ārabhya yāni śīghrocavṛttāni tāni
pratilomam gacchanti, yasmāt śīghrocakendram ahar ahar apacīyate | atra idam
praṣṭavyam ā katham vā mandocakendram
ahar ahar upacīyate, katham vā śīghrocakendram ahar ahar apacīyate iti? ucyate ā
grahāt patite mandocce [mandakendra]bhuktayaḥ upacīyante, grahāt patite śīghrocce
śīghrakendrabhuktayaḥ apacīyante | yadi evam grahāt śīghroccam na patati mahattvāt
tarhi maṇḍalam prakṣipyā pātyate iti | tatra bhagaṇāḥ bhagaṇebhyaḥ viśodhyāḥ,
rāśayaḥ rāśibhyaḥ, bhāgāḥ bhāgebhyaḥ, liptāḥ liptābhyaḥ iti eṣaḥ kramaḥ | tatra
grahabhagaṇebhyaḥ śīghrocabhagaṇāḥ eva tāvat na
śuddhyanti | kutaḥ asau bhagaṇaḥ yam prakṣipyā śīghroccam viśodhyate? tasmāt
gaṇitayuktyā yāni api śīghravṛttāni tāni api anulomagāni eva | ācāryeṇa tu
karaṇalāghavārtham "pratilomagāni vṛttāni" iti uktam | kim punar atra karaṇalāghavam?
kāmacāraḥ | yadi grahaḥ śīghrocāt patati tadā grahaḥ śīghrocāt viśodhyate | yadā ca
śīghroccam grahāt patati tadā grahāt śīghroccam viśodhyate iti | satyam eva etat, kintu
jyāparidhikalpanā vyabharati | yadā grahāt śīghroccam
viśodhitam bhavati tadā anyathā jyā anyathā paridhiḥ, tadānīm eva śīghrocāt viśuddhe
grahe anyathā jyā anyathā eva paridhiḥ | atha manyate śīghrocaviśuddhe grahe yat
prathamapadam tat caturthapadam, yat dvitīyapadam tat tṛtīyapadam, yat tṛtīyapadam

tat dvitīyapadam, yat caturthapadam tat prathamapadam iti | evam tarhi yat jyāyasī
 kalpanā, tasmāt mandoccam grahāt viśodhyam | grahaḥ ca śīghroccāt |
 mandaśīghravṛttāni kramotkrameṇa eva gacchanti |
 kakṣyāmaṇḍalalagnaḥ | kakṣyāyāḥ maṇḍalam kakṣyāmaṇḍalam | athavā kakṣyā ca sā
 maṇḍalam ca tat kakṣyāmaṇḍalam | tena kakṣyāmaṇḍalena lagnaḥ
 kakṣyāmaṇḍalalagnaḥ | kaḥ? grahaḥ madhyaḥ | svavṛttamadhye | svasya vṛttam
 svavṛttam | tat ca sāmānyena mandavṛttam śīghravṛttam ca parigrhyate | tasya
 svamandavṛttasya [svaśīghra]vṛttasya ca madhyam svavṛttamadhyam | tatra grahasya
 madhyaḥ, sa ca kakṣyāmaṇḍalāsaktaḥ | svavṛttasya kakṣyāmaṇḍale
 yathā madhyam bhavati tathā badhnīyāt | tasmin svavṛtte yathā kakṣyāmaṇḍale yathā
 madhyam bhavati tathā badhnīyāt | tasmin svavṛtte yathā kakṣyāmaṇḍale jyā avitiṣṭhate
 tathā eva avatiṣṭhamānā draṣṭavyā | katham? yathā kakṣyāmaṇḍalasya
 ṣaṇṇavatyamaṣakā kāṣṭhajyā | evam atra api ṣaṇṇavatyamaṣakā kāṣṭhajyā parikalpanīyā |
 tat yathā ā uccāt ārabhya bhujajyākoṭijyābhyām trairāśikam ā yadi
 ṣaṣṭīśatatrayeraparidhau ime bhujajyākoṭijye, [tadā] uccanīcaparidhau
 ke iti | athavā ā vyāsārdhena ime bhujajyākoṭijye, tataḥ antyaphalatulyena
 uccanīcavṛttavyāsārdhena ke iti | labdhe uccanīcavṛttasya bhujajyākoṭijye | tatra
 prathamacaturthayoḥ padayoḥ vyāsārdhāt upari koṭīsāadhanam sthitam iti vyāsārdhe
 prakṣipyate | dvitīyatrīyayoḥ padayoḥ vyāsārdhonam pravṛttam iti vyāsārdhāt apanīyate
 | evam koṭikā niṣpannā bhavati, bhujākoṭivargasamāsamūlam karṇaḥ | evam
 mandaśīghrayoḥ karṇotpattiḥ || 21 ||

[nīcoccavṛttavidhinā śanigurukujasphuṭīkaraṇam]

grahāṇām ṛṇadhanapratipādanāya āha ā

kṣayadhanadhanakṣayāḥ syuḥ mandoccat vyatyayena śīghroccāt |

śanigurukujeṣu mandāt ardham ṛṇam dhanam bhavati pūrve || 22 ||

kṣayadhanadhanakṣayāḥ | kṣayaḥ ca dhanah ca dhanah ca kṣayaḥ ca
kṣayadhanadhanakṣayāḥ | ete kṣayadhanadhanakṣayāḥ yathāsaṅkhyena padeṣu
pratyetavyāḥ | tat yathā ā prathame pade kṣayaḥ, dvitīye pade dhanam, tṛtīye pade
dhanam eva, caturthe pade kṣayaḥ iti | ayam kṣayādikramaḥ |

padakramaḥ ca kasmāt parigr̥hyate iti āha ā mandoccāt pravṛttāt grahāt | kutaḥ? ucyate
ā "mandoccāt" iyam pañcamī maryādābhīdhāyinī | tataḥ mandoccāt iti anena mandoccāt
pravṛttaḥ grahaḥ parigr̥hyate | sa katham mandoccāt pravṛttaḥ grahaḥ jñeyaḥ? ucyate ā
na atra kiñcit api jñeyam | yāvadbhiḥ mandoccāt adhikaḥ grahaḥ tavatā asau
mandoccāt pravṛttaḥ grahaḥ jñeyaḥ | tena tatparijñānārtham mandoccam grahāt
pātyate, tatra śeṣeṇa rāśyādinā mandoccāt
pravṛttaḥ asau grahaḥ bhavati | tasmāt prathamapade yā kramajyā tasyāḥ phalam
trairāśikena ānīyate | yadi ṣaṣṭīśatatrāyaparidheḥ iyam jyā, tadā iṣṭagrahaparidheḥ kā iti
phalam labhyate | etat eva trairāśikam | jhārdhāpavartamānaṣaṣṭīśatatrāyaparidheḥ
aśītiḥ, svaparidhibhāgānām yathā uktākṣarasaṅkhyā | tena paridhinā guṇitajyāyāḥ aśītiḥ
bhāgahāraḥ | svaparidhyakṣarasaṅkhyā guṇakāraḥ | labdham phalam ṛṇam eva |
dvitīyapade utkrameṇa jyā vyavasthitā iti,
utkramajyāphalam dhanam | punar tṛtīyapade krameṇa jyā vyavasthitā iti
kramajyāphalam dhanam | caturthe pade utkrameṇa jyā vyavasthitā iti
utkramajyāphalam kṣayaḥ | tatra prathamapade eva mandakendram, tat utpannam eva
phalam grahamadhye kṣayaḥ | yadā dvitīyapade kendram tadā
prathamapadavyāsārdhajyotpannam aśeṣaphalam kṣayaḥ,
dvitīyapadotkramajyāphalam dhanam | prathamadvitīyapadābhyām tṛtīyacaturthapade
vyākhyāte |

athavā karaṇalāghavārtham evam kriyate ā prathamapade yat utpannam krameṇa
jyāphalam kṣayaḥ | dvitīyapade yat utpannam punar yat gatam rāśyādikam atītam
prathamapadasamjñitarāśitrayāt kṣayātmakāt dhanātmakam tat dvitīyapadasya yat
gatam tat viśodhya śeṣam tatra kṣayaḥ eva avatiṣṭhate, tena tat utpannam phalam
madhyamagrahe kṣayaḥ | evam dvitīyapadānte kṣayadhanayoḥ tulyatvāt na kiñcit
avatiṣṭhate | tasmāt sāmartyataḥ ayam arthaḥ

samjñataḥ ā prathamapade gatajyāphalam kṣayaḥ, dvitīyapade api āgatajyāphalam
kṣayaḥ | etena mandakendraphalam meṣādike kṣayaḥ | tat etat prathamapade gatam
bhujāsamjñitam dvitīyapade anāgatam | koṭisamjñitam [prathamapade anāgatam]
dvitīyapade gatam | tṛtīyacaturthayoḥ ca | tṛtīyapade kramajyāphalam dhanam |
caturthapade tṛtīyapadarāśitrayāt dhanāt dhanasamjñitāt
caturthapadarāśyādigatakṣayasamjñitam viśodhyate, śeṣam dhanam eva avatiṣṭhate |
evam

caturthapadānte dhanakṣayayoḥ tulyatvāt na kiñcit avasiṣyate | tasmāt atra api sa eva
arthaḥ tulādikendre bhujāphalam dhanam iti |

suṣṭhu khalu etat avagamyate | yadi padeṣu sarveṣu tulyāḥ paridhayaḥ tadā evam syāt
| na ca tulyāḥ paridhayaḥ paṭhyante | atulyeṣu ca paridhiṣu pratimaṇḍalasya ca api
avasthā virudhyate | kutaḥ? prathamapade śukrasya catuṣkaḥ paridhiḥ | tatra
dvitīyapadaprāptau eva dvikaḥ paridhiḥ | tatra ardhapahalam parihīyate | grahaḥ tu
gacchan krameṇa gacchati, na hariṇaplutena | na eṣa doṣaḥ | tulyāḥ paridhayaḥ | nanu
ca uktam ā na ca tulyāḥ paridhayaḥ paṭhyante

iti | na etat asti | evam vijñāyate ā ete paridhayaḥ upacayā[pacayā]tmakāḥ, yataḥ tena
tulyopacayāpacayātmakatvāt kramotkramavyavasthāyāḥ, yataḥ te eva bhavanti iti | tena
tulyāḥ ucyante | tat yathā ā prathamapade kramajyām paridhyantareṇa hatvā
vyāsārdhena labdham ūne viṣamapadaparidhau prakṣipyate, adhike apanīyate |
prathamadvitīyapadābhyām tṛtīyacaturthapade vyākhyāte |

vyatyayena śīghroccāt | śīghroccakendrāt padavaśāt kramotkramajyāphalam viparītam |
prathamacaturthayoḥ padayoḥ dhanam, dviṭiyatṛtīyayoḥ kṣayaḥ iti viparyayaḥ | athavā
bhujāphalam śīghrakrameṇa ānītam meṣādau dhanam, tulādāvṛṇam |
paridhicālanādyāśeṣam pūrvavat eva | atra śīghraphalam vyāsārdhena saṃguṇayya tat
utpannakarṇena bhāgalabdham phalam dhanam ṛṇam vā | etat ca karma trairāśīkam ā
yadi vyāsārdhamaṇḍale idam phalam
labhyate, tadā śīghroccakarṇamaṇḍale kiyat iti vyastatrairāśīkena vyāsārdham
guṇakāraḥ, karṇaḥ bhāgahāraḥ | atra kim iti vyastatrairāśīkam? ucyate ā "alpe hi
maṇḍale alpāḥ mahati mahāntaḥ ca rāśayaḥ jñeyāḥ" [kālakriyāī, 14] iti anena | atha
mandoccaphalam evam kasmāt na kriyate? ucyate ā kriyamāṇe api tāvat eva tat
phalam bhavati iti na kriyate | kutaḥ? mandoccakarṇaḥ aviśiṣyate | tatra ca aviśeṣitena
phalena vyāsārdham saṃguṇayya karṇena bhāge hr̥te pūrvam
ānītam eva phalam bhavati iti | atha kim iti śīghroccakarṇaḥ na aviśiṣyate? abhāvāt
aviśeṣakarṇaḥ |

atha atra idam praṣṭavyam ā kakṣyāmaṇḍalasya yathā svayojanakarṇaḥ vyāsārdhaḥ,
tat ca svaliptābhiḥ mīyamānaḥ vasvagnivedarāmāḥ [3438], pratimaṇḍalasya api etat
eva vyāsārdham iti etat | kakṣyāmaṇḍalotpannajyāphalaliptābhiḥ trairāśīkābhāvaḥ,
kakṣyāpratimaṇḍalayoḥ tulyavyāsārdhatvāt | atha manyate ā
tatkālotpannabhujākoṭiniṣpannakarṇaḥ vyāsārdham pratimaṇḍalasya | tena
trairāśīkopapattiḥ | evam tarhi na kakṣyāmaṇḍalatulyam pratimaṇḍalam
iti | atra ucyate ā caturthapadādau kakṣyāpratimaṇḍale tulye | tena
kakṣyāpratimaṇḍalayoḥ tulyam vyāsārdham | tataḥ prabhṛti pratimaṇḍalavyāsārdham
[krameṇa upacīyate] | evam krameṇa upacīyamānam uccatulyagrahe
svocavṛttaviṣkambhārdham upacitam bhavati | tat eva prathamapadādau prabhṛti
utkrameṇa apacīyamānam prathamapadānte vyāsārdham eva bhavati | evam krameṇa

apacīyamānam dvitīyapadānte uccavṛttaviṣkambhārdham apacitam bhavati | ṛtīye
[padānte] ca utkrameṇa upacīyamānam iti etat kakṣyāmaṇḍalavyāsārdham eva |
grahasya uccanīcagatikramāt upacayāpacayātmakam bhavati iti ataḥ pratimaṇḍalasya
upadeśaḥ | ghanabhūmadhyāt eva grahasya uccanīcaparijñānam iti ataḥ vyāsārdham
eva koṭiphaleṇa upacīyate apacīyate vā | atha yadi pratimaṇḍalamadhyāt vyāsārdhasya
vṛddhihrāsau syātām | tadā ṛtīyam maṇḍalam parikalpayitavyam syāt |
ghanabhūmadhyāt karṇasya upacayāpacayau, tena tatkarṇena
vyastatrairāśīkopapattiḥ iti | etat gaṇitanyāyasiddham eva |

śanigurukujeṣu | śaniḥ ca guruḥ ca kujāḥ ca śanigurukujāḥ | ataḥ teṣu śanigurukujeṣu
mandāt mandocāt prabhṛti ya[t phalam upapadyate] tat ardham ṛṇam dhanam vā
bhavati | pūrve pūrvakarmaṇi, mandāt prabhṛti iti | śīghrāt api ca yat phalam tat teṣu
ardham kriyate prathame śīghrakarmaṇi | anyatra dvitīyakarmaṇi mandaśīghrayoḥ
sakalaphalam iti arthāt avasīyate | mandaśīghraphalāni kāṣṭhāni ṛṇam dhanam vā
parikalpyate | yataḥ kāṣṭhena grahaḥ
bhramati | tat phalam kva ṛṇam kva vā dhanam iti ā śanigurukujeṣu | atra śanigurukujāḥ
madhyamāḥ eva parigrhyante | kutaḥ? madhyamasya sphuṭīkaraṇopāyatvāt | tadā hi
ete sphuṭībhavanti |

yadi etat karma śanigurukujeṣu madhyameṣu kriyate, mandocaphalārdhena
madhyame ṛṇadhane kṛte tasya ṛṇadhanīkṛtasya madhyamatvam hīyate | [ataḥ]
śīghrocaphalacāpārdhasya avikṛtamadhyame dhanarṇe prāpnutaḥJ| na etat asti |
mandocaphalacāpārdhadhanarṇīkṛtaḥ eva bhaviṣyati | kutaḥ? "ekadeśavikṛtam
ananyavat bhavati" iti [aṣṭādhyāyī, 4.1.83 pātañjalamahābhāṣyam] ekadeśavikṛtaḥ api
madhyaḥ eva | yathā devakattaḥ svalaṅkṛtaḥ api svam ākhyānam
na jahāti, na ca karṇanāsāvachedena api, evam atra api, dve karmaṇi tatra tatra eva
madhyame kriyete | athavā prathamamadhyamāt mandocāyātam phalārdham

madhyamoṭpannatvāt madhyame kriyate | yat punar śīghroccāyātam sakṛtsaṃskṛtāt
phalārdham tat sakṛtsaṃskṛtāyātam eva iti kṛtvā sakṛtsaṃskṛtaḥ eva kriyate | tasmāt
dvikarmasaṃsiddhāt mandoccaphalam tat sakalam eva madhyame grahe kriyate | sa
sphuṭamadhyamaḥ bhavati |

atha idam praṣṭavyam ā yat etat dvikarmasiddhamandocchāyātam tat
dvikarmasaṃsiddhe eva kasmāt na kriyate | ucyate ā " mandocchāt sphuṭamadhyāḥ"
[kālakriyāī, 23] iti madhyame kriyate | nanu ca dvikarmasiddhaḥ api madhyamaḥ eva |
kutaḥ? "ekadeśavikṛtam ananyavat bhavati" iti vacanāt | evam tarhi siddhe, punar
sphuṭamadhyamagrahaṇam kurvan ācāryaḥ jñāpayati avikṛtamadhyāḥ iti | anyathā hi
sphuṭamadhyamagrahaṇam atiricyate | tasmāt dvitīyaphalam
mandocchāyātam tat sakalam eva madhyame grahe kriyate |

śīghroccāt ca sphuṭāḥ jñeyāḥ iti | sa evaṃkṛte sphuṭamadhyamaḥ śīghroccakarmanā
sphuṭaḥ bhavati iti sphuṭamadhyame śīghroccaphaladhanuḥ sakalam kriyate, sphuṭaḥ
bhavati |

ṛṇadhanayuktipradarśanārtham vyāsārdhatulyena karkaṭakena samāyāmanau
samavṛttamaṇḍalam ālikhya mātrpitṛrekham kuryāt | tat kakṣyāmaṇḍalam
rāśijyārekhāvīracitam | tanmaṇḍalakendrāt yāvatyāḥ abhīṣṭagrahāntyaphalalīptāḥ tāvati
antare ca dakṣiṇena kendram kṛtvā vyāsārdhatulyena eva karkaṭakena tathā eva
samavṛttamaṇḍalam ālikhet | tat pratimaṇḍalam | [kakṣyā]maṇḍalāt yāvadbhiḥ
pratimaṇḍalam niṣkrāntam tāvatā vyāsārdhena
kakṣyāmaṇḍaladakṣiṇottararekhāsampāte kendram kṛtvā ubhayatra vṛttadvayam
ālikhya[te | te nīcocca]vṛtte | tayoh yathā kakṣyāmaṇḍale rāśijyāvīkalpaḥ tathā
karaṇīyam | prathamacaturthayoḥ padayoḥ kakṣyāmaṇḍalāt uparisthitatvāt
pratimaṇḍalasya vyāsārdhe koṭisādhanam prakṣīpya karnaḥ kṛtaḥ, tāvat pramāṇam

sūtram [pratimaṇḍalaparidhim] yatra spr̥śati tatra sphuṭaḥ grahaḥ |
kākṣyāmaṇḍalajyā ca tasmāt purataḥ iti arthaḥ | prathamacaturthayoḥ padayoḥ
tat utpannam phalam madhyamagrahāt apaciyate | dvitīyatṛtīyayoḥ padayoḥ
kākṣyāmaṇḍalāt adhovyavasthitatvāt pratimaṇḍalasya, vyāsārdhāt koṭisādhanam
apanīya kṛtaḥ karṇaḥ, tāvatpramāṇam sūtram kākṣyāmaṇḍalamadhyāt
pratimaṇḍalaparidhim yatra spr̥śati tatra sphuṭaḥ grahaḥ | sa ca
kākṣyāmaṇḍalajyāpradeśāt purataḥ avatiṣṭhate | tena tat utpannam phalam
dvitīyatṛtīyayoḥ padayoḥ madhyamagrahāt upaciyate |

śīghrocce punar yeṣām kṣayadhanadhanakṣayāḥ syuḥ mandocāt evam eva śīghrocāt
iti ayam pāṭhaḥ teṣām iyam ṛṇadhanopapattiḥ | yeṣām punar vyatyayena śīghrocāt iti
ayam pāṭhaḥ teṣām iyam eva upapattiḥ viparītā | katham? pratimaṇḍale sphuṭaḥ ca
grahaḥ, madhyamaḥ ca śīghroccaparikalpanāya kākṣyāmaṇḍale | punar kendrajyā tena
prathamacaturthayoḥ padayoḥ pṛṣṭhataḥ sthitatvāt madhyamasya kendrajyāgrahasya
ānīyamānasya kendrajyotpannam
phalam dhanam bhavati puraḥsthitatvāt kendrajyāgrahasya, dvitīyatṛtīyayoḥ padayoḥ
pṛṣṭhataḥ sthitatvāt kendrajyāgrahasya tat phalam apanīyate | ataḥ evam
mandaśīghrayoḥ parasparaviruddhatvāt upapatteḥ, ācāryeṇa
paramārthasphuṭagrahapradeśaḥ bhūtārāgrahavivarapramāṇapradeśaḥ darśitaḥ | tena
yāvat bhūtārāgrahavivarapramāṇam sūtram kākṣyāmaṇḍalamadhyāt
pratimaṇḍalaparidhim padavibhāgena prasāritam yatra spr̥śati, tatra sphuṭaḥ grahaḥ |

anye punar anyathā paṭhanti ā śanigurukjeṣu mande ardham ṛṇam dhanam bhavati
pūrvam iti | mande mandocce ardham phalasya ṛṇam dhanam, yadi tat grahe ṛṇam
dhanam tadā tat mandocce dhanam ṛṇam iti arthāt avasiyate | tatra kiyat tat phalam
mandocce ṛṇam sat dhanam bhavati, dhanam sat ṛṇam bhavati iti ucyate ā
śīghroccaphalam yasmāt mandoccaphalam ca phaladvayam etat | tayoh mandoccam

ādhāraḥ | phaladvayam ādheyah | atah śīghroccaphalam
kriyate | karmacatuṣṭayagrahaṇāt tat utpannam ca phalam tatra eva | tat yathā ā prāg
eva śīghraphalam ānīya tat ardham ṛṇam dhanam vā mandocce kṛtvā tat mandāyātam
ca tena phaladvayasamṣkṛtena mandoccena samṣkṛtaḥ sa sphuṭamadhyah grahaḥ
bhavati | sa śīghrakarmaṇā sphuṭaḥ iti prakriyāntaram etat || 22 ||

[prakārāntareṇa śanigurukujasphuṭikaraṇam]

grahāṇām sphuṭikaraṇaprakārāntaram āha ā

mandoccāt śīghroccāt ardham ṛṇam dhanam graheṣu mandeṣu |
mandoccāt sphuṭamadhyāḥ śīghroccāt ca sphuṭāḥ jñeyāḥ || 23 ||

mandoccāt yat phalam āyātam tasya cāpārdham ṛṇam dhanam vā graheṣu ṛṇam
dhanam [mandeṣu vā kartavyam] | evam tarhi cakāraḥ kartavyah | cakāreṇa vinā
grahēṣu mandeṣu ca iti cārthaḥ na labhyate | na cakāraḥ kartavyah | antareṇa api
cakāram cārthaḥ avagamyate | [katham?] evam ā

bāle vṛddhe kṣate kṣiṇe kṣīram yuktyā prayojayet |

iti atra cakāreṇa vinā cārthasya avagamanāt | evam ayam api | "sva"mandeṣu api
vaktavyam, yena sveṣu madhyameṣu sveṣu ca mandeṣu kriyate | "sva"śabdaḥ api na
kartavyah | svasya grahasya yah madhyamaḥ svasya ca yat mandam tatra eva
karmasiddheḥ | yathā "mātari vaktavyam pitari śuśrūṣitavyam" iti | na ca tatra ucyate ā
"svasyām mātari svasmin vā pitari" iti | evam atra api iti |

atha yat etat mandoccāyātam phalārdham tat kṣayadhanakrameṇa madhye grahe

dhanam ṛṇam vā kriyate | mande punar katham kriyate, mandasya ṛṇadhanakramasya
anabhidhānāt? ucyate ā mandoccam sarvadā eva grahasya ṛṇabhūtam | tatra yat
grahasya ṛṇam tat mandocce prakṣipyate, ṛṇabhūtatvāt | yat grahe dhanabhūtam tat
mandoccāt apanīyate, mandoccasya ṛṇabhūtatvāt eva | ayam ca gaṇitanyāyah ā

ṛṇa[ṛṇayoḥ dhana]dhanayoḥ saṃkṣepaḥ ṛṇadhanayoḥ ca viśeṣaḥ |

iti | tasmāt anena krameṇa mandocce phalārdhasya upacayāpacayau bhavataḥ |
śīghroccāt ca yat phalārdham tat api evam eva grahavaiparītyena mande dhanam ṛṇam
vā kriyate | graheṣu punar prayojanābhāvāt na kriyate |

mandoccāt | mandoccaśīghroccaphalārdhena saṃskṛtam mandoccam parigr̥hyate |
kutaḥ? karmadvayavṛttau mandanirdeśāt | tena tādr̥gvidhena mandena madhyamāt
viśodhitena yat phalam āyātam tat sakalam madhyeṣu ṛṇam dhanam vā kriyate |
sphuṭamadhyāḥ | [madhyamasya] sphuṭasya antarvartivāt [sphuṭāḥ ye na, na avikṛteṣu]
madhyameṣu phalasya karaṇāt madhyamāḥ | athavā sphuṭasya madhyamāḥ
sphuṭamadhyamāḥ | ekena karmaṇā niṣpannā yena
dviṭīyam karmāntaram apekṣante | śīghroccāt ca sphuṭāḥ jñeyāḥ | śīghroccāt āyātam
phalam tena saṃskṛtāḥ sphuṭāḥ | cakāraḥ phalayoḥ samuccayam abhidhatte | jñeyāḥ
avagantavyāḥ boddhavyāḥ iti yāvat || 23 ||

[bhṛgubudhayoḥ sphuṭīkaraṇam]

bhṛgubudhayoḥ karma āha ā

śīghroccāt ardhonam kartavyam ṛṇam dhanam svamandocce |

sphuṭamadhyau tu bhṛgubudhau siddhāt mandāt sphuṭau bhavataḥ || 24 ||

śīghroccāt iti prāk śīghroccaniṣpannam phalam gṛhyate | tat eva śīghroccaphalam agre |
tatra tat ardhanam ardhnam iti arthaḥ | ṛṇadhanam kartavyam | yadi grahe ṛṇam tadā
dhanam kartavyam | dhanasya ṛṇam kartavyam iti arthāt avasīyate | kva iti āha ā
svamandocce | svakīyam mandoccam svamandoccam, tasmin svamandocce |
sphuṭamadyau bhṛgubudhau bhavataḥ | katham? siddhāt mandāt | yat eva
śīghroccaphalārdhena saṃskṛtam mandoccam tat siddham
iti abhidhīyate | tasmāt siddhāt mandāt sphuṭamadyau bhavataḥ | etat uktam bhavati ā
yat eta[t siddhamandam tat madhyama]grahāt viśodhya śeṣaphalasya ca ṛṇadhanena
tayoḥ bhṛgubudhayoḥ madhyau sphuṭamadyau bhavataḥ | "tu"-śabdāt "śīghroccāt ca
sphuṭāḥ jñeyāḥ" [kālakriyāī, 23] iti etat kriyate || 24 ||

[bhūtārāgrahāntarālam]

[bhūtārāgrahā]ntarālapramāṇānayanāya āha ā

bhūtārāgrahavivaram vyāsārdhahṛtaḥ svakarṇasaṃvargaḥ |
kākṣyāyām grahavegaḥ yaḥ bhavati sa mandanīcocce || 25 ||

tārāgrahāṇām bhuvāḥ ca yat antaram tasya ānayanopāyaḥ ucyate |
bhūtārāgrahavivaram bhuvāḥ tārāgrahasya ca yat antaram tat bhūtārāgrahavivaram
bhavati iti vakṣyati | vyāsārdhahṛtaḥ svakarṇasaṃvargaḥ | vyāsārdham trijyā | trijayā
hṛtaḥ vyāsārdhahṛtaḥ | svakarṇayoḥ saṃvargaḥ svakarṇasaṃvargaḥ | etat uktam
bhavati ā mandoccakarṇasya śīghroccakarṇasya ca yaḥ ghātaḥ saḥ
svakarṇasaṃvargaḥ vyāsārdhahṛtaḥ | kākṣyāyām grahavegaḥ | tāvat ucchritāyām
[kākṣyāyām] grahasya yaḥ mandaśīghroccaphalajanitaḥ vegāḥ sa tasya
bhūtārāgrahavivarasya agre bhavati iti | ataḥ eva bhūtārāgrahavivaram vikṣepānayanane

bhāgahāraḥ |

apare āhuḥ ā na bhūtārāgrahavivaram bhāgahāraḥ | kaḥ tarhi? vyāsārdham | yasmāt
etat atra trairāsīkam ā yadi trijyā svagrahābhīhitavikṣepaḥ labhyate, anayā
abhīṣṭagrahasvapātavivarāntarālāṃśajyā bhujajyā kim iti | na etat samyak
avasīyate | yadi idam eva trairāsīkam syāt, tadā nakṣatratārāgrahaśāsīyogāḥ sarvadā
tasyām eva diśi tulyavikṣepavivarāḥ syuḥ, nakṣatratārāṇām uccaṇīcagatyasambhavāt |
dṛśyante ca amī grahanakṣatrāṇām dūrāsanna[vaśāt]
bhedāṃśumardanasavyāpasavyayogagata[yaḥ | yadi vyāsārdha]m eva bhāgahāraḥ
syāt tadā sarve eva tulyagatayaḥ syuḥ | bhūtārāgrahavivaram |
bhūtārāgrahavivaravaśāt vikṣepaḥ alpaḥ mahān ca nakṣatratārāgrahayogeṣu labhyate |
[alpe vā] mahadvikṣepe dakṣiṇottaradigvaśāt niyatavikṣepāntaradiśaḥ yogāḥ
upapadyante | tasmāt bhūtārāgrahavivaram eva bhāgahāraḥ | etat api karma
trairāsīkadvyam | katham? yadi vyāsārdhatulyayā pātāntarabhujajyā yathāsvam
vikṣepaḥ
alpaḥ mahān ca labhyate, tadā ana[yā bhujaj]yā pātāntarotpannayā kaḥ iti vikṣepaḥ
labhyate | [ataḥ] punar api vyastatraināsīkam ā yadi ayam vikṣepaḥ kakṣyāmaṇḍale
vyāsārdhaviṣkambhe labhyate, tadā paramārthapratimaṇḍale
bhūtārāgrahavivaraviṣkambhārdhe kiyān iti | pūrvatrairāsīke vyāsārdham bhāgahāraḥ
āsīt, tat eva dvitīyatrairāsīke vyastatvāt guṇakāraḥ | ataḥ guṇakārabhāgahārayoḥ
naṣṭayoḥ, pātāntarabhujajyāyāḥ vikṣepaḥ guṇakāraḥ, bhūtārāgrahavivaram
bhāgahāraḥ, phalam iṣṭagrahasya vikṣepaḥ | evam iṣṭagrahayoḥ
vikṣepāvabhinnadikkau viśiṣyate, yasmāt apakramamaṇḍalāt tau pravṛttau | tataḥ
tadviśeṣatulyam tayōḥ antaram bhavati, tatra api tayōḥ ūnādhikavikṣepavaśāt
parasparāpekṣayā [tayōḥ yāmyottaradiktvam] | bhinnadikkau vikṣepau yojyate | yasmāt
ekaḥ apakramamaṇḍalāt dakṣiṇena aparaḥ uttareṇa, tasmāt tadantaram
[vikṣepayoga]pramāṇam bhavati | vikṣepalīptāntaracaturbhāgaḥ aṅgulapramāṇam

vācyam

| yadā punar antaralīptāḥ na syuḥ, alpāḥ vā [syuḥ] tadā tayoh anyonyāśeṣāt chādanam
ekadeśāt chādanam vā [bhavati] | tatra grahaṇavat

iṣṭagrahasaṃparkārdhatadvikṣepa[viśleṣeṇa yogena vā] sthityardhanāḍikānayanam |

[tārāgrahāṇām sphuṭayojanakarṇānayanam]

atha nakṣatratārāgrahayogeṣu natilambanaparijñānārtham idam karma kriyate |
"śaśīnaṇāṇanamāṃśakāḥ" [gītikāī, 7] iti atra śaśīyojanakarṇaḥ nāḍibhiḥ guṇitaḥ
śukrādīnām bhāgahāraḥ bhavanti iti vyākhyātam | tena śaśīyojanakarṇaḥ pañcabhiḥ
guṇitaḥ śukrasya yojanakarṇaḥ bhavati daśabhiḥ guroḥ, pañcadaśabhiḥ budhasya,
viṃśatyā śaneḥ, pañcaviṃśatyā aṅgārakasya | yadi evam tarhi grahāṇām
kākṣyābhīdhānam virudhyate | na eṣaḥ doṣaḥ | tāvat kākṣyāsthāḥ
eva grahāḥ, atra punar nāḍiguṇakāraiḥ dṛṣṭiparikarma kriyate iti | ayam yojanakarṇaḥ
bhūtārāgrahavivaraguṇitaḥ vyāsārdhahṛtaḥ sphuṭaḥ bhavati | etat api trairāśīkam ā yadi
vyāsārdhalīptābhiḥ etāvanti yojanāni labhyante bhūtārāgrahavivaralīptābhiḥ kiyanti iti,
athavā trairāśīkadvayaikīkaraṇena abhīṣṭagrahasphuṭayojanakarṇaḥ ānīyate | katham?
bhūtārāgrahavivarānayanane vyāsārdham bhāgahāraḥ āsīt, iha ca
bhūtārāgrahavivarasvamadhyamayojanakarṇābhyāsasya
vyāsārdham eva bhāgahāraḥ | ataḥ bhāgahārayoh saṃvargaḥ
mandoccaśīghroccakarṇasvamadhyamayojanakarṇābhyāsasya bhāgahāraḥ | phalam
sphuṭayojanakarṇaḥ | tayoh ayam arthaḥ sañjātaḥ ā mandaśīghra[karṇa]guṇitaḥ
madhyamayojanakarṇaḥ vyāsārdhakṛtivibhaktāḥ sphuṭayojanakarṇaḥ bhavati |
mandanīcocce mandasya mandoccasya ucce nīce ca ānītaḥ mandakarṇaḥ eva anena
vidhinā sphuṭīkṛtaḥ iti |

[grahasphuṭīkaraṇe viśeṣaḥ]

atha vivasvaddhanarṇodayāstamayavaśāt sāmānyasarvagrahāṇām
sphuṭagaṇitavidhiviśeṣaḥ abhidhāsyate | tat yathā ā savituḥ bhujāphalena
ravyādibhuktayaḥ guṇitāḥ khakhaṣaḍghanena vibhajya āptakalā graheṣu
bhujāphaladhanarṇavaśāt kriyate | tat vicāryate ā idam karma anupadiṣṭam katham
avagamyate? na eṣaḥ doṣaḥ | upadiṣṭam eva etat ā "budhāhnyajārkodayāt ca
laṅkāyām" [gītikāī, 4] iti | arkodayāvadheḥ gateḥ eteṣām pratipacchedau iti upadeśāt
arkaḥ hi sphuṭagaṇitāvagatagateḥ eva udayaśikharamadhyāste iti sphuṭasya arkasya
udayaḥ parigrhyate | sphuṭagatiḥ ca madhyamā eva svabhujāphalādiliptābhiḥ
upacitāpacitā vā iti ataḥ bhujāphalaliptābhiḥ prāṇatulyābhiḥ trairāśikam kriyate ā yadi
ahorātraprāṇaiḥ khakhaṣaḍghanatulyaiḥ vivasvadādisphuṭabhuktayaḥ labhyante,
bhujāphalaliptābhiḥ prāṇatulyābhiḥ kim iti | āsām bhujāphalaliptānām prāṇatulyatvam iti
| atra ucyate ā ravyudayāt eva jyotiścakrādeḥ api
udayādiḥ iti vyākhyātam | tena pravahākṣepāt madhyamaḥ sarvadā svabhujāphalena
adhikaḥ ūnaḥ vā bhavati | yadā adhikaḥ tadā jyotiścakram bhujāphalaliptātulyam
ravigatyā jīyate, [ūnaḥ cet bhujāphalaliptātulyam ravigatyā apacīyate] iti | anayā
parikalpanayā jyotiścakrasambandhinyaḥ tadā bhujāphalaliptāḥ bhavanti,
jyotiścakraliptāḥ prāṇāḥ ca tulyāḥ iti | ataḥ tāsām prāṇatulyabhujāphalaliptānām
abhāvaḥ, ahargaṇāt āga]taḥ [sakalaḥ sūryaḥ] yadā svoccatulyaḥ tadā
eva udaye bhavati iti | anyathā tatra api bhujāntaraphalam kriyate eva | arkaḥ hi
sphuṭagaṇi[tāvagatateḥ eva udaya]śikharamadhyāste iti |

evam eteṣām vivasvadādīnām grahāṇām sphuṭagatayaḥ sūryodayāvadheḥ bhavanti iti
ataḥ ravi[vaśāt eva upacayāpaca]yātmakam phalam kriyate | deśāntaracaradalakarmanī
ca anayā eva upapattyā | ardharātrāstamayadinamadhyasaṁsthitasūryā[t trairāśikam] ā
yadi ṣaṣṭyā nāḍībhiḥ yathāsvam madhyamā bhuktiḥ labhyate tadā pañcadaśabhiḥ
ghaṭikābhiḥ triṁśatā pañcavatvāriṁśadbhiḥ ca kim iti [phalali]ptāḥ audayikebhyaḥ

grahebhyaḥ viśodhyante, tataḥ tena

ravyādayaḥ tātkaḷikāḥ bhavanti | teṣāṃ ca sphuṭaparakriyā pūrvābhilitā eva |

[dinamadyārdharātrayoḥ cara]dalakarma na pravartate | kṣitijamaṇḍalaprapṭyatikrāntī

ravyudayāstamayayoḥ eva iti | evam ādityagatyavadhayaḥ grahāḥ |

yadā punar para[sya grahasya raveḥ iva] kalpyante tadā candroda[yajñā]nena

udayakālam eva avagatya tadudayakālāvadhayaḥ kriyante |

[tithipratipacchedaparijñānam]

evam yathopadiṣṭagaṇitaparakriya[yā tithi]pratipacchedaparijñānāya ucyate | tat yathā ā

sphuṭaśāśinaḥ sphuṭaḥ raviḥ apanīyate, yasmāt tithiḥ śāśimāsavaśāt bhavati tena

"raviśāśiyogāḥ bhavanti [śāśimāsāḥ" [kālakriyāī, 5] iti sphuṭavidho]rinaḥ apanīyate |

yathāsambhavam atra bhagaṇaḥ na sambhavati iti rāśyādayaḥ eva rāśyādibhyaḥ

apanīyante | athavā ka[lpāditaḥ ye ravighagaṇāḥ] bhuktāḥ te śāśibhagaṇebhyaḥ

viśodhyante, rāśyādibhyaḥ rāśyādayaḥ iti | tatra

avaśiṣṭāḥ śāśimāsādayaḥ bhavanti | [māsānām prayojanābhāvaḥ i]ti māsāḥ tyajyante |

tatra ye avaśiṣṭāḥ rāśyādayaḥ vartamānaśāśimāsasya avayavabhūtāḥ taiḥ liptīkṛtaiḥ

trairāśi[kam ā yadi khakhaṣaḍghana]tulyena sūryācandramasoḥ viśeṣeṇa śāśimāsāḥ

labhyate tadā ābhiḥ candrādityaviśeṣaliptābhiḥ kiyacchaśimās[āḥ iti sampūrṇa]māsam

na prayacchati iti divasāḥ kriyante | "triṃśaddivasaḥ bhavet sa māsāḥ" [kālakriyāī, 1] iti

triṃśatkaḥ guṇakāraḥ | tatra guṇakārabhāgahārayoḥ apavartane [triṃśataḥ

triṃśadbhāgena ekam] khakhaṣaḍghanasya

tāvadbhāgena saptaśatāni viṃśatyadhikāni | saptaśatyā viṃśatyuttarayā

ravicandravivaraliptāḥ vibhajyante | [phalam gatatithayaḥ va]rtamānaśāśimāsasya

śuklapratipatpravṛttāḥ, tatra śeṣaliptāḥ vartamānatitheḥ bhuktāḥ, tadviśuddhāḥ

bhāgahāraliptāḥ bhojyāḥ iti | ataḥ tābhiḥ bhuktabhojyaliptābhiḥ trairāśikam ā yadi tat
ahaḥ sūryācandramasoḥ sphuṭabhuktyantaralīptābhiḥ ekaḥ śaśidivasāḥ labhyate tataḥ
ābhiḥ bhuktabhojyaliptābhiḥ kiyān śaśidivasasya labhyate iti, tatra
divaseṣu bhāgam na prayacchanti iti nāḍyaḥ kriyante | "ṣaṣṭiḥ nāḍyaḥ divasaḥ"
[kālakriyāī, 1] iti ṣaṣṭyā saṅguṇayya sphuṭabhuktyantaralīptābhiḥ bhāgalabdhāḥ
bhuktabhojyāḥ titheḥ nāḍyaḥ sūryodayāvadheḥ gatāḥ gantavyāḥ vā bhavanti iti |

[sūryācandramasoḥ samalīptīkaraṇam]

iṣṭakālāvadheḥ vā parvaṇi samalīptāvidhānam | gatagantavyatām parvaṇaḥ vidhāya
gatagantavyalīptābhiḥ trairāśikam | tat yathā ā yadi sūryācandramasoḥ
taddinasphuṭabhuktyantaralīptābhiḥ sūryācandramasoḥ sphuṭabhuktiḥ yathāsvam
labhyate tataḥ ābhiḥ gatagantavyatithilīptābhiḥ kiyatyāḥ sphuṭabhuktilīptāḥ iti labdhāḥ
līptāḥ ravau gantavyaparvaṇi prakṣipyante, śaśini ca | atha gataparvaṇi tayoh eva
yathāsvam trairāśikāyātalīptāḥ viśodhyante | evam
gantavyagataparvaṇaḥ paryavasānakālikau samalīptau bhavataḥ iti gaṇitapāde api
asmābhiḥ "bhukteḥ vilomavivare" [gaṇitaī, 31] iti asyām āryāyām samkṣepataḥ
abhihitam iti kṛtvā iha tu vistareṇa pradarsitam |

[candranakṣatrapratipacchedaparijñānam]

candrayuktena nakṣatreṇa vyavahāraḥ iti pratyaham
candrayuktanakṣatrapratipaccheda [parijñānam] kriyate | tat yathā ā śaśilīptābhiḥ
trairāśikam ā yadi maṇḍalalīptābhiḥ khakhaṣaḍghanatulyābhiḥ saptaviṃśatiḥ nakṣatrāṇi
labhyante tataḥ [ābhiḥ candragatalīptābhiḥ kim iti | atra guṇakārabhāgahārayoh
apa]vartanam kriyate | saptaviṃśateḥ saptaviṃśatibhāgena ekam khakhaṣaḍghanasya
api tāvatbhāgena aṣṭau [śatāni, ataḥ śaśilīptā]nām aṣṭābhiḥ śataiḥ bhāge

nakṣatrāṇām aśvinyādīnām [yāni gatāni teṣām saṃkhyā] labhyate | śeṣe
gatagantavyam kṛtvā vartamānasya nakṣatrasya gatagantavyāḥ nāḍyaḥ sādhyante |
katham? yadi sphuṭabhuktyā ṣaṣṭiḥ nāḍyaḥ labhyante, ābhiḥ gatagantavyalīptābhiḥ
kiyatyaḥ iti gatagantavyanāḍyaḥ labhyante | śaśibhukteḥ
ahorātrakālāvadhiniṣpannatvāt, ahorātrasya ca pramāṇam ṣaṣṭiḥ nāḍyaḥ iti ṣaṣṭyā
trairāśīkam kriyate || 25 ||

iti bhāskarasya kṛtau āryabhaṭatantrabhāṣye kālakriyāpādaḥ samāptaḥ ||

Golapādaḥ

[maṅgalācaraṇam]

namaḥ sanmaṅgalajñānapūrṇakumbhāya rājate |
surāsuraśiroghṛṣṭapādapīṭhāya vedhase ||

[golabandhaḥ]

kālakriyānantaram golam, "trīṇi gadati gaṇitam kālakriyām golam" iti uktatvāt | gamyate
jñāyate asmāt iti golam | kim punar asmāt gamyate?

grahabhramaṇadharitrīsamsthānādīni sarvam | evam paramārthajijñāsavaḥ hi
asatyapūrvakam satyam pratipadyante | tat yathā bhiṣajaḥ hi utpalanālādiṣu
sirāvedhanādīni pratipadyante, yajñāśastravidyaḥ śuṣkeṣṭyā yajñādīni [pratipadyante],
vaiyākaraṇāḥ prakṛtipratyayalopāgamavarṇavikārādibhiḥ sādhuśabdāni pratipadyante,
evam atra api sāmvaṣṭarāḥ vṛttaśalākāsūtrāvalambakādibhiḥ kṣetragāṇitaviśeṣaiḥ
pāramārthikam golam pratipadyante | tasmāt diṇmātrapradarśanam eva etat ārabhyate,
aśakyatvāt aśeṣapradarśanasya | kaḥ hi citrayan nimeṣonmeṣādi api citrayati | tasmāt

śrīparṇivañculakāṣṭhayoḥ anyatamam ardhavṛttacakrasvarūpam krākacikaiḥ vṛttam
ekam niṣpādayet | tataḥ sughaṭitārdhavṛttadvayena tribhiḥ vā sughaṭitavṛttaśakalaiḥ
vṛttam ekam nirmāpayet | tatra vṛttaśakalāsandhicchedāḥ
trayaḥ śurapuñkhapārśvacchedāvayavārdhacchedaḥ iti | tatra eteṣāṃ anyatamena
vṛttaśakalāni anyonyam ghaṭayet | tāmraḱīlakaiḥ tatra evam niṣpannam ekam vṛttam
pūrvāparam nidhāya dvitīyam dakṣiṇottaram upari adhaḥ ca janitasvastikam
svastikasampāte ca maṇḍaladvayam ardhacchedena chitvā tathā saṃyojyam yathā
ekam eva vṛttam lakṣyate | tau vihitārdhacchedena svastikacatuṣṭayam praveśya
niścalam nidadhya tāmraḱīlakaiḥ niścalīkriyate |

tataḥ tayoḥ maṇḍalayoḥ bahiḥ parikaravat dikcatuṣṭayajanitasvastikam anyam tathā eva
ardhacchedena svastikacatuṣṭayam praveśya niścalam nidadhyāt |
pūrvāparamaṇḍalam ṣaṣṭyañkāṅkitam kārayet, yathā ekaikasmin caturbhāge
pañcadaśa pañcadaśāñkāḥ syuḥ | te ca ahorātraghaṭikāḥ | evam pariśeṣam
maṇḍaladvayam api, ekaikam ṣaṣṭīsatatrayāñkitam [kārayet] | tāni viṣuvat [yāmya
uttarakṣitija]maṇḍalāni | tat tulyam eva aparam maṇḍalam ṣaṣṭīsatatrayāñkitam
pūrvasvastike aparasvastike ca tiryak tribhāgacchedam kṛtvā dvau tribhāgau
maṇḍalapradeśasya svastikam ghaṭayet | yathā vā maṇḍalatrayasampātām ekam eva
lakṣyate tathā avachedaḥ kalpanīyaḥ | pūrvāparadakṣiṇottaramaṇḍalayoḥ yaḥ adhaḥ
svastikaḥ tasmāt uttarena uttaraśalākāyām caturviṃśatibhāge tathā eva ardhacchedena
svastikam kārayet | upari api tathā eva uparisvastikāt dakṣiṇena [dakṣiṇa]śalākāyām
caturviṃśatitame bhāge svastikam kārayet | sarvatra niścalīkaraṇam
tāmraḱīlakaiḥ | evam tiryak rāśipadaḥ vyavasthitaḥ | sa eva apamaṇḍalam iti ucyate |
tāvatpramāṇam eva anyat maṇḍalam sañcāri yatra candramasaḥ sampātaḥ vartate
tasmin badhvā tataḥ uttarena parataḥ nivatitame bhāge yathā ca ardhapañcamabhāgāḥ
tasya ca apakramamaṇḍalasya ca antare bhavanti tathā vidhāya pātabhāge
cakrārdhāntare badhīyāt | evam tataḥ dakṣiṇena navatitame bhāge ardhapañcamā

bhāgāḥ tasya apakramamaṇḍalasya ca yathā antare bhavanti tathā
nidadhyāt | evam tat vimaṇḍalam, tat eva vikṣepamaṇḍalam iti ucyate |

evam anyeṣām api svebhyaḥ svebhyaḥ pātabhāgebhyaḥ api maṇḍalāni |
budhaśukrayoḥ śīghroccābhyām | svāhorātramaṇḍalāni api sañcārīṇi ā viṣuvataḥ
uttareṇa meṣāpakramakāṣṭhatulyāntare pūrvāparāyatam maṇḍalam meṣasya
ahorātramaṇḍalam, vṛṣāntāpakramatulyakāṣṭhāntare vṛṣasya,
mithunāntāpakramatulyakāṣṭhāntare mithunasya, tāni eva utkrameṇa
karkaṭakasimḥakanyānām; evam [viṣuvataḥ] dakṣiṇena tulāvṛścikadhanuṣām
svāhorātramaṇḍalāni,
tāni eva utkrameṇa makarakumbhamīnānām | svāhorātramaṇḍaleṣu dakṣiṇottarāyatāni
sūtrāṇi badhnīyāt | teṣām ardhāni apakramajyāḥ | meṣasya ahorātramaṇḍalena
unmaṇḍalasya yatra sampātaḥ tatra sūtrasya ekam agram badhvā mīnasya
ahorātronmaṇḍalasampāte dvitīyam agram badhnīyāt | bhūmadhyāvabhedisūtram
viṣuvatā saha badhnīyāt, tasya prathamasūtrasya ca yatra sampātaḥ tatra
prathamasūtrārdham bhavati | evam anyeṣām sūtrāṇām ardhāni | tāni
sarvāṇi ahorātrāpakramajyāḥ santi | aśakyatvāt kvacit tu pradarśyante | yāni
vikṣepāpakramasvāhorātramaṇḍalāni vyākhyātāni [tāni na] pradarśyante | anyathā
kālasamaḥ golaḥ bhramayitum na śakyate, maṇḍalabahutvāt |

atha suślakṣṇām ṛjvīm ayaḥśalākām gopucchāyatavr̥ttām
dakṣiṇottarasvastikāvabhedinīm nirgatobhayāgrām pañjarabhārasahām nidadhyāt |
tanmadhye bhuvam samavr̥ttām mṛdā anyena vā racayet | evam ayam ekaḥ eva
pañjaraḥ sarveṣām grahāṇām | yasmāt bhinnakakṣyāsthāḥ api grahāḥ ekakakṣyāgatāḥ
eva upalakṣyante, tasmāt ayam eva ekaḥ pañjaraḥ | athavā sarveṣām eva pṛthak
pṛthak pañjarāḥ yāvat tāvat paricchinnasvakakṣyāpramāṇāḥ eva pradarśayitavyāḥ
|

athavā pañjarasya bahiḥ [dakṣiṇottara]svastikayoḥ ayaḥśalākāyām tryaṅgulām
caturaṅgulām vā ślakṣṇām śaradaṇḍikām niścalām nidadhyāt | tataḥ
yāvattāvatpramāṇaparicchinnaḥkakṣyāparikalpitam ubhayataḥ
cakrārdhāntarakṛtavedham [maṇḍalam] dakṣiṇottarāvagāhi nidhāya tasya madhye
pañjaram praveśya tām ayaḥśalākām ubhayatra pārśvavedhau praveśayet, yathā sā
śaradaṇḍikā pañjaradvayasīmāvagāhini bhavati | tāvatpramāṇam eva anyadvṛttam
pūrvāparāvagāhi upari adhaḥ ca janitasvastikam pūrvavat nidadhyāt | tat
samamaṇḍalam | punar api tāvat eva anyat maṇḍalam parikaravat
dikcatuṣṭayajanitasvastikam dakṣiṇottarasvastikasampātakṛtavedham ubhayatra
lohaśalākām praveśya niścalam nidadhyāt | tat kṣitijamaṇḍalam | evam ayam golaḥ
viṣuvati samaḥ eva avatiṣṭhate | viṣuvataḥ uttareṇa yāvān akṣaḥ tāvatsu bhāgeṣu
khagolottarasvastikāt upari vedham kārayet, dakṣiṇataḥ ca tāvati eva antare [adhaḥ]
vedhaḥ

| pūrvavedhābhyām ayaḥśalākām niśkāśya
svadeśākṣabhāgapramāṇaparikalpitavedhayoḥ praveśayet | evam
svaviṣayākṣapramāṇena avasthitaḥ golaḥ, tatra sarvam eva pradarśayet | atha
khagolapramāṇam eva anyadvṛttam ubhayataḥ cakrārdhāntarakṛtavedham uttaraḥ
nirgatāyaḥśalākāgram praveśayet | dvitīyavedham dakṣiṇataḥ nirgatāyaḥśalākāgram
praveśayet | tatra tat niścalam nidhāya, tasya pūrvāparasvastikasampāte pūrvavat
tiryagbhedenā pūrvāparasvastikayoḥ
niścalam tat maṇḍalam nidadhyāt | tat unmaṇḍalam iti ācakṣate | sarvāṇi eva vṛttāni
ṣaṣṭiśatatrāyabhāgāṅkitāni kārayet |

anye punar samāyāmanau khagolārdhapramāṇam avaṭam khātvā tatra yathā
kṣitijamaṇḍalam upari bhavati tathā ardhanimagnam khagolam nidhāya darśayanti |
evam ayam kāṣṭhamayaḥ golaḥ kriyate | kāṣṭhāsambhave

paripakvālpasuṣiraślakṣṇavaṃśaśalākāvṛttaiḥ vā golaḥ kriyate | evam golam badhvā
sarvam eva avaśeṣam śāstre vyākhyāyate |

[bhagole apakramamaṇḍalam]

atra āditaḥ eva tāvat apakramamaṇḍalam āha ā

meṣādeḥ kanyāntam samam udak apamaṇḍalārdham apayātam |

taulyādeḥ mīnāntam śeṣārdham dakṣiṇena eva || 1 ||

meṣādeḥ meṣasya ādiḥ meṣādiḥ, tasmāt meṣādeḥ, kanyāntam antam paryavasānam,

kanyāyāḥ antam kanyāntam; meṣādeḥ ārabhya yāvat kanyāntam | samam tulyam |

udak uttareṇa | apamaṇḍalārdham | apamaṇḍalasya apakramamaṇḍalasya ardham,

apakramamaṇḍalārdham | apayātam tiryak vyavasthitam | taulyādeḥ taulinaḥ ādiḥ

taulyādiḥ, tasmāt taulyādeḥ, mīnasya antam mīnāntam; taulyādeḥ ārabhya yāvat

mīnāntam | śeṣārdham śeṣam ca tadardham

ca śeṣārdham, athavā śeṣasya jyotiścakrasya apamaṇḍalasaṃjñītasya ardham

śeṣārdham | tat dakṣiṇena, dakṣiṇadigbhāgena tadardham | "eva"śabdaḥ

āryāpūraṇārtahm pratipāditaḥ | athavā evam ardhamātram api paścārdhe pradarśayati,

yathā uttareṇa samam apakramamaṇḍalam tiryak vyavasthitam, evam atra api

dakṣiṇena tasya eva apakramamaṇḍalasya ardham tiryak eva avatiṣṭhate iti |

atra vinā api "sama"śabdena ṣaḍrāśipramāṇābhīdhānāt

udagdakṣiṇāpakramamaṇḍalārdhasamatvam gamyate, samagrahaṇam atiricyate | na

atiricyate ā pratideśam akṣaviśeṣāt rāśīnām udayakālāḥ viṣamāḥ upalakṣyante, tena

samaśabdāt ṛte viṣamapramāṇānām rāśīnām grahaṇam syāt, tataḥ ca akṣaviśeṣāt

meṣādīnām apakramajyāḥ pratideśam bhinnapramāṇāḥ syuḥ | "sama"śabde punar

kriyamāṇe tulyapramāṇarāśīgrahaṇam siddham, yasmāt sarvaḥ eva

rāsiḥ jyotiścakradvādaśabhāgaḥ, sa ca triṃśattriṃśadbhāgapramāṇaḥ iti | evam
apakramamaṇḍalam viṣuvataḥ uttarena meṣādeḥ kanyāntam tiryak avatiṣṭhate | tat eva
tulyādeḥ mīnāntam dakṣiṇena viṣuvataḥ tathā eva avatiṣṭhate | katham idam anuktaṃ
gamyate viṣuvataḥ iti | na eṣaḥ doṣaḥ | udagdakṣiṇena iti b(r)uvan ācāryaḥ siddham
eva viṣuvanmaṇḍalam pradarśayati | anyathā hi udagdakṣiṇena iti, etat anarthakam
syāt | udagdakṣiṇaśabdau ca digvācinau, dik vyavasthā
apekṣayā bhavati | ataḥ pūrvam viṣuvanmaṇḍalam badhvā tataḥ apakramamaṇḍalam
badhyate | sarvāṇi eva maṇḍalāni ṣaṣṭiśatatrāyāṅkitāni kriyante, yasmāt
ṣaṣṭiśatatrāyāṃśam jyotiścakram || 1 ||

[apakramamaṇḍalacāriṇaḥ]

tasmin ca apakramamaṇḍale ke bhramanti iti āha ā

tārāgrahendupātāḥ bhramanti ajasram apamaṇḍale arkaḥ ca |
arkāt ca maṇḍalārdhe bhramati hi tasmin kṣiticchāyā || 2 ||

tārāgrahāḥ bhaumabudhabṛhaspatiśukraśanaiścarāḥ, tārāgrahendupātāḥ bhramanti
ajasram avyavacchedena, apamaṇḍale apakramamaṇḍale, arkaḥ ca na kevalam ete
tārāgrahendupātāḥ apamaṇḍale bhramanti, arkaḥ ca | tatra apamaṇḍale ajasram arkaḥ
ca bhramati | arkāt ca maṇḍalārdhe arkāt punar maṇḍalārdhe ṣaḍrāśyantare, bhramati
hi tasmin tatra maṇḍalārdhe, bhūcchāyā | yathā stambhādīnām pradīpavaśāt chāyā
bhramati, evam bhuvaḥ api arkavaśāt,
na kevalam tārāgrahendupātāḥ iti |

pātānām apakramamaṇḍale gatiḥ uktā | tat kim idānīm arkāt maṇḍalārdhe bhūcchāyā
bhramati iti ucyate | na ca bhūcchāyāvvyatiriktaḥ pātaḥ asti candramasaḥ | na eṣaḥ

doṣaḥ | sarveṣāṃ eva tārāgrahāṇām ye pātāḥ te apakramamaṇḍale bhramanti |
candramasaḥ punar pātāḥ arkāt maṇḍalārdhe apakramamaṇḍale bhramati iti etat eva
artham | "arkāt ca maṇḍalārdhe bhramati hi tasmin kṣiticchāyā" iti kathayati | nanu ca
budhādīnām ye pātāḥ te niścalāḥ teṣāṃ
niścalānām katham apakramamaṇḍalagatiḥ ucyate ? na te niścalāḥ, "navarāṣaha gatvā
aṃśakān prathamapātāḥ" [gītikāī, 9] iti atra "gatvā"-śabdena teṣāṃ gatyupadeśāt |

"tārāgrahendupātāḥ" iti iyam āryā kim artham ārabhyate? tārāgrahādīnām gatiḥ
apakramamaṇḍale vijñāyate | uktam ca "bhāpakramaḥ grahāṃśāḥ" [gītikāī, 8] iti
sarve[ṣāṃ gatimatā]m ete apakramabhāgāḥ iti | yadi ca gītikoktam api atra punar
ucyate, tadā tarhi bahu atra abhidheyam iti | athavā raveḥ cakrārdhe bhūcchāyā
bhramati iti etat pradarśayitavyam syāt, tat ca na pradeśāntarapradarśitatvāt |
"bhūravivivaram vibhajet" [golaī, 39] iti atra pradīpacchāyopapatyā
bhūcchāyānayanam upadiśet | raveḥ cakrārdhe bhūcchāyā bhramati iti etat
pradarśayati, yataḥ hi śaṅkaḥ rjusthitasya pradīpasya tat rjupravṛttacchāyā | tasmāt
iyam āryā ārabdhavyā iti || 2 ||

[vikṣepamaṇḍalacāriṇaḥ]

grahāṇām vikṣepamaṇḍalapradarśanāya āha ā

apamaṇḍalasya candraḥ pātāt yāti uttarena dakṣiṇataḥ |
kujagurukoṇāḥ ca evam śīghrocena api budhaśukrau || 3 ||

apamaṇḍalasya | apamaṇḍalam apakramamaṇḍalam | apakramamaṇḍalasya candraḥ |
apamaṇḍalasambandhī candraḥ "apamaṇḍalasya candraḥ" iti ucyate |
apamaṇḍalasamsthitaḥ vā candraḥ apamaṇḍalasya candraḥ, yathā ā kusūlasya

vīṅhayaḥ | athavā adhikaraṅārthā iyam ṣaṣṭhī, yataḥ hi ekaśatam ṣaṣṭhyarthāḥ,
apamaṅḍale candraḥ iti etasmin arthe | sa apamaṅḍalavyavasthitaḥ candraḥ pātāt yāti
gacchati | pātaśabdena candramasaḥ vikṣepāpakramamaṅḍalayoḥ saṃyogaḥ
abhidhīyate | tasya ca saṃyogasya pratikṣaṅgam gatimattvāt, sā gatiḥ pātaśabdena
abhidhīyate, upacārāt | ataḥ sa gatiṣaṃjñitaḥ pātaḥ yasmin rāśau yāvatiṭhe bhāge
vartate tasmin rāśau tāvatitṭhe bhāge apakramamaṅḍalapramāṅgam eva anyat
maṅḍalam tasmin badhvā dviṭīyam ardhama cakrārdhāntare tathā eva badhnīyāt yathā
tat apakramamaṅḍalāt uttaraṅga avatiṣṭhate tasya [prathamam ardhama], yathā dviṭīyam
ardham vā dakṣiṅga upalakṣyate | evam ca prathamapātāt
apakramamaṅḍalasya uttaraṅga vikṣepamaṅḍalam, dviṭīyapātāt ca dakṣiṅga, ubhayatra
cakracaturbhāgāntare yathā ardhapañcamāḥ bhāgāḥ tasya ca apakramamaṅḍalasya
antare bhavanti tathā badhnīyāt vikṣepamaṅḍalam | tasmin candramāḥ bhramati |
viṣuvataḥ uttaraṅga dakṣiṅga vā tat apakramamaṅḍalam | tasmāt apakramamaṅḍalāt
uttaraṅga dakṣiṅga vā vikṣepamaṅḍalam pradarśayet |

candrasya ca vikṣepamaṅḍalavyavasthitasya viṣuvataḥ ca antarānayaṅga iyam yuktiḥ ā
sphuṭacandramasaḥ bhujajyayā trairāśikam ā yadi vyāsārdhatulyayā bhujajyayā
caturviṃśatyapakramabhāgajyā labhyate tataḥ candrabhujajyayā kā iti,
apakramabhāgajyā labhyate | tataḥ pātāt apakramamaṅḍalavyavasthitaḥ candraḥ
dakṣiṅga uttaraṅga vā yāti iti uktavān | pātāvadhi pariñānāya sphuṭacandramasaḥ
pātaḥ viśodhyate, tatra viśeṣasya yā jyā tayā trairāśikam ā yadi
vyāsārdhajyayā candravikṣepabhāgajyā labhyate anayā iṣṭajyayā kā iti, iṣṭavikṣepajyā
labhyate | tayōḥ vikṣepāpakramajyayōḥ kāṣṭhīkṛtayōḥ tulyadikkayōḥ yogaḥ, yasmāt
apakramamaṅḍalāt parataḥ candraḥ vartate | bhinnadikkayōḥ viśeṣaḥ, yasmāt ārāt
apakramamaṅḍalāt [vikṣepamaṅḍalam] candraḥ ca | gole yathārtham pradarśayet |
yogaviśeṣabhāgānām yā jyā tāvat antaram viṣuvataḥ candramasaḥ ca | jyāpramāṅga
kāṣṭhapramāṅgam uktam |

kujagurukoṇāḥ ca evam bhaumabr̥haspatiśanaiścarāḥ ca | yathā candraḥ svasmāt
pātāt uttarena dakṣiṇena vā apakramamaṇḍalasthitaḥ yāti, evam eva kujagurukoṇāḥ |
eteṣām vikṣepamaṇḍalāni vikṣepāpakramayogaviśeṣayuktayaḥ candravat
pratipattavyāḥ | cakāraḥ etat eva artham samuccinoti |

śīghrocena api budhaśukrau | śīghrodbhūtena budhaśukrau pātāt vikṣepamaṇḍalayoḥ
bhramataḥ | etayoḥ śīghroccau apakramamaṇḍale pātabhāgapramāṇagaṭī bhavataḥ |
pātabhā[gāt tattatpradeśe] vikṣepamaṇḍale badhniyāt | [evam tarhi] etayoḥ
apakramaparijñānam api śīghroccāt eva | kutaḥ? apakramamaṇḍalāt pātāt vikṣepam
bruvatā taduccayoḥ apakramamaṇḍalasthitiḥ pradarśitā bhavati, yataḥ
apakramamaṇḍalasthitaḥ vikṣepamaṇḍale pravartate | [te]na
samyak idam avagamyate ā etayoḥ apakramam api śīghroccāt iti | kutaḥ vikṣepasya
eva kevalasya? "śīghrocena api budhaśukrau" iti śīghroccāt pātapravṛttāt etayoḥ
vikṣepaparijñānam ucyate, nāpamaparijñānam | ataḥ svataḥ e[va e]tayoḥ
apakramānayanam śīghroccāt | evam api apakramamaṇḍalasthitau etau
vikṣepamaṇḍale pratartate iti eta[t upapa]nnam eva | etat kutaḥ
vikṣepaparijñānamātram eva etayoḥ? upāyāntareṇa vikṣiptam punar svataḥ eva
apamaṇḍalāt pratiyakṣeṇa
upadiṣṭam, candravikṣepapradarśitam eva arthaviśeṣam sambhāvayati | sarveṣām eva
vikṣepaḥ apakramamaṇḍalāt uttarena dakṣiṇena ca | [pātāt] cakracaturbhāgāntare
yathā uktāḥ [vikṣe]pabhāgāḥ vikṣepāpakramamaṇḍalayoḥ antare yathā avatiṣṭhante
tathā pradarśyante | "apamaṇḍalasya candraḥ pātāt yāti" iti etat api gītikāsu
upapadiṣṭa[pātānusāreṇa ava]dheyam | śaśī vikṣepamaṇḍalasthitapātāt prabhṛti
vikṣepamaṇḍale pravartate, iti etat anuktam na gamyate | "śīghrocena
api budhaśukrau" iti e[tat api] vaktavyam | ataḥ avaśyam etat āryāsūtram vaktavyam || 3
||

[grahāṇām kālāṃśāḥ]

grahāṇām udayāstamayaparijñānāya ādityagrahāntarabhāgān āha ā

candraḥ aṃśaiḥ dvādaśabhiḥ avikṣiptaḥ arkāntarasthitaḥ dṛśyaḥ |

navabhiḥ bhrguḥ bhrgoḥ taiḥ dvyadhikaiḥ dvyadhikaiḥ yathā ślakṣṇāḥ ||4||

candraḥ aṃśaiḥ dvādaśabhiḥ | ayam aṃśaśabdaḥ sāmānyena vibhāgamātravācī | tena
"sāmānyacodanāḥ ca viśeṣe avatiṣṭhante" iti aṃśaviśeṣeṣu avasthāpyante | viśeṣaḥ ca
kālāṃśatā | ete kālavibhāgāḥ | te kālabhāgāḥ ucyante | "prāṇena eti kalām bham"

[gītikāī, 6] iti uktam | tena ucchvāsaprāṇasya liptāsaṃjñātvam | tataḥ prāṇānām

saptaśatasya viṃśatyadhikasya [720] dvādaśa bhāgāḥ, ghaṭikādvayam iti arthaḥ | yataḥ
ghaṭikādvayasya prāṇāḥ saptaśatāni viṃśatyadhikāni

[720] | athavā sūryāt paścāt prāk vā kālena antaritaḥ grahaḥ yasmāt [dṛśyaḥ tasmāt]

kālāṃśatvam | evam kālabhāgaiḥ dvādaśabhiḥ antaritaḥ candraḥ | avikṣiptaḥ, na
vikṣiptaḥ avikṣiptaḥ | arkāntarasthitaḥ | arkāt antaram arkāntaram, tasmin arkāntare
dvādaśakālāṃśa-pramāṇena avikṣiptaḥ vyavasthitaḥ, nabhasi vyapetābhratamasi
lakṣyate |

yadā punar asau vikṣiptaḥ ghaṭikādvayāt ūnādhike kāle dṛśyate, yasmāt arkāt uttarena

vikṣiptaḥ candraḥ golasya uttaronnatavāt ūne api ghaṭikādvaye kāle dṛśyate,

dakṣiṇavikṣiptaḥ ca unnatavāt golasya dakṣiṇena ghaṭikādvayādhikakāle dṛśyate |

tasmāt uktam avikṣiptaḥ iti | tasmāt vikṣepakarmakṛtvā etat antaram ālocyate |

navabhiḥ bhrguḥ | tathā eva kālabhāgaiḥ navabhiḥ arkāntarasthitaḥ avikṣiptaḥ bhrguḥ

dṛśyate | navabhiḥ kālabhāgaiḥ vikṣiptasya vikṣepakarma candravat eva | bhrgoḥ taiḥ |

bhṛgoḥ śukrasya ye bhāgāḥ | navabhiḥ bhṛguḥ taiḥ dvyadhikaiḥ dvyadhikaiḥ iti etāvātā
siddhe punar bhṛgugrahaṇam kurvan ācāryaḥ jñāpayati ā bhṛgoḥ iyam kāṣṭhabhāgāḥ
nava iti, tebhyaḥ eva navabhyaḥ gurvādyantarabhāgapratipattiḥ | anyathā hi ayam
bhṛguḥ ataḥ nyūneṣu api triṣu
caturṣu vā antaritaḥ vakrakāle udayāstamayau kurvan lakṣyate iti etat punar
bhṛgugrahaṇam | taiḥ dvyadhikaiḥ dvyadhikaiḥ iti vīpsāgrahaṇam ca
bhāgadvayāntaragrahaṇārtham | anyathā hi sarveṣām eva nava eva bhāgāḥ syuḥ |

yathā ślakṣṇāḥ | ete grahāḥ ślakṣṇāḥ parihīyamānaśarīrāḥ pratipāditāḥ tathā
dvyadhikaiḥ dvyadhikaiḥ arkāntarasthitāḥ avikṣiptāḥ santaḥ dṛśyante | uktaḥ ca eṣām
yathāślakṣṇakramaḥ ā

bhṛgugurubudhaśanibhaumāḥ śaśi-ṇa-ṇa-ṇa-na-māṃśākāḥ | [gītikāī, 7]

iti | bhṛgoḥ bhāgaiḥ dvyadhikaiḥ bṛhaspatiḥ dṛśyate ṣaḍbhāgonaghaṭikādvayena, taiḥ
dvyadhikaiḥ bṛhaspateḥ trayodaśabhiḥ ṣaḍbhāgottaraghaṭikādvayena budhaḥ,
budhabhāgaiḥ dvyadhikaiḥ śanaīscarāḥ sārdhena ghāṭikādvayena, śanaīscarabhāgaiḥ
dvyadhikaiḥ bhaumāḥ ṣaḍbhāgonaghaṭikātrayeṇa, etāvadbhiḥ kālabhāgaiḥ antaritāḥ
dṛśyante iti uktam | adarśanam punar eṣām katham avagamyate? kecit tāvat āhuḥ ā
etāvadbhiḥ eva bhāgaiḥ | kutaḥ? tulyatā saṃhitāyām

| arkāntarasthitaḥ dṛśyaḥ adrśyaḥ ca | katham etāvadbhiḥ eva bāgaiḥ dṛśyaḥ adrśyaḥ
ca? yadā arkāt niṣkrāmati grahaḥ tadā tāvadbhiḥ eva dṛśyate, yadā sa eva arkam
praviśati tadā [tāvadbhiḥ] eva antaritaḥ na dṛśyate | etat ca [na] ā yāvatā niṣkrāmataḥ
praviśataḥ vā grahasya tulyam idam antaram, tena dṛśyena vā graheṇa bhavitavyam
adrśyena vā | sa tāvat iṣṭakālāṃśakāḥ dṛśyaḥ eva upalabhyate | tasmāt
tulyasaṃhitāvyaḅkyānam asat iti | katham tarhi? ucyate ā etāvadbhiḥ
eva bhāgaiḥ arkāntarasthitaḥ niṣkrāmat praviśat vā dṛśyate | ūnaiḥ ataḥ dṛśyate iti

arthāt avagamyate, adhikaiḥ punar nitarām dṛśyate iti etat asāstrajñāḥ api jānāti |

kālānayanam punar atra deśāntarākṣaviśeṣarāśyudayapramāṇaiḥ parikalpyate | tat
yathā ā yadi triṃśatā svadeśarāśyudayakālaḥ labhyate tadā idānīm
niṣpannārkagrahāntarabhāgaiḥ kaḥ iti, kālaḥ labhyate | sa yadi
abhīṣṭagrahāntarakālena tulyaḥ tadā asau grahaḥ dṛśyate, ūne astam gataḥ, adhike
nitarām dṛśyate | athavā svadeśarāśyudayena triṃśatā ca trairāśikam kṛtvā sarvarāśiṣu
antarabhāgānayanam ā yadi rāśyudayakālena triṃśadbhāgāḥ labhyante
tadā iṣṭagrahāntarābhīhitakālena kiyantaḥ iti sarvarāśiṣu antarabhāgāḥ labhyante | taiḥ
vā sakṛtsiddhaiḥ eva antarabhāgaiḥ iṣṭadeśe grahasya darśanam vaktavyam |
grahāṇām pūrvodayāstamayayoḥ idam karma | aparodayāstamayayoḥ
tatsaptamarāśyudayakālena etat parikalpanam, yasmāt udayarāśivaśāt eva astam
rāśayaḥ gacchanti || 4 ||

[bhūgrahādīnām prakāśahetuḥ]

dharitrīgrahanakṣatratārāṇām prakāśahetupradarśanāya āha ā

bhūgrahabhānām golārdhāni svacchāyayā vivarṇāni |
ardhāni yathāsāram sūryābhimukhāni dīpyante || 5 ||

bhūḥ pṛthivī | grahāḥ sūryādayaḥ | bhāni jyotiṃṣi nakṣatrāṇi | bhūḥ ca grahāḥ ca bhāni
ca bhūgrahabhāni, teṣām bhūgrahabhānām | golārdhāni | dharitryādīnām śarīrāṇi
golaśabdena ucyante | ataḥ teṣām golānām ardhāni golākāraśarīrārdhāni iti yāvat |

katham ete grahādayaḥ golākāraśarīrāṇi pratipadyante? bhuvam tāvat anye
śakaṭākārām darpaṇavṛttākārām ca manyante | na etat evam | yathā golākārā bhūḥ

pratipadyate tathā uttarataḥ vakṣyāmi | katham punar atra amī grahāḥ golākārāḥ
pratipadyante? atha ca darpaṇavṛttākārau sūryācandramasau lakṣyete, evam anye api |
anyat ca ā sthityardhādiparilekhanaprakriyā ca golākāraśarīreṣu na ghaṭate | na etat
asti | ete grahādayaḥ golaśarīrāḥ api santaḥ
dūradeśavartivāt darpaṇavṛttākārāḥ upalakṣyante | yā sthityardhādiparilekhanaprakriyā
sā drgviṣayā, tasyāḥ drgviṣayatvāt yathādarśanagatāni eva bimbasaṃsthānāni
aṅgīkr̥tya ācāryeṇa uktam | athavā golākāreṣu api sthityardhādyupapattiḥ śakyate
vaktum | yasmāt vikṣepādayaḥ bimbamadhyāt pravṛttāḥ tāvat jñātvā golakānām
bimbārdham darpaṇavṛttākāraḥ iva yathā bhraman niṣpāditaḥ samudgataḥ tasyāḥ
udaram darpaṇavṛttākāram eva upalakṣyate, tasmāt golākārāt
api sthityardhādyupapattisiddhiḥ ca | ataḥ paramārthataḥ eva golākārāḥ, anyathā hi
candramasaḥ sitakṣayavṛddhī darpaṇavṛttākāre bimbe na saṃvadete | tasmāt
golākāraśarīrāḥ ete | uktam ca ā

sūryaḥ agnimayaḥ golaḥ candraḥ ambumayaḥ svabhāvataḥ svacchaḥ | iti |

svacchāyayā vivarṇāni | svā cchāyā svacchāyā, tayā svacchāyayā ardhāni eṣām
[vivarṇāni aprakāśātmakāni kṛṣṇāni iti arthaḥ, na tataḥ anyatkārāṇa]m asti vaivarṇyasya
| yathā ghaṭasya ātapasthasya ekam pārśvam svacchāyayā eva vivarṇam, evam atra
api | yā[ni ardhāni] prakāśante tāni sūryābhimukhāni | ardhāni | teṣām golānām ardhāni,
yāvanti avaśiṣṭāni svacchāyāvaivarṇyāni vyatiriktāni | yathāsāram | alpānām alpāni,
mahatām mahānti | sūryābhimukhāni,
ādityābhimukhāni | dīpyante cakāśanti |

[candrasya sitabhāgaḥ]

yadi ardhāni grahāṇām sūryābhimukhāni cakāśanti tadā kim iti candramasaḥ

ardhabimbam sarvadā na cakāsti? cakāsti eva | kim iti na upalabhyate? ucyate ā
amāvāsyāyām candramasaḥ upari ādityaḥ tadā tasya candramasaḥ upari yat
bimbārdham tat aśeṣam avabhāsayati | candrasya amāvāsyopalakṣitoparibimbakendrāt
yathā yathā paścāt ādityaḥ avalambate tathā tathā bimbakendram api aparataḥ
avalambate | tat kendraśāt candramasaḥ bimbārdham yāvat
eva amāvāsyopalakṣitam bimbaparidhyardhāvadheḥ avalambate tāvat candramasaḥ
bimbam asmābhiḥ upalakṣyate | śeṣam uparisthitatvāt na upalakṣyate |
sūryābhimukham api savitr̥karā[t chāditam api na dṛśyate] | tasmāt yāvat yāvat
candramasaḥ bimbam savitr̥bimbāt ślakṣṇam avalambate tāvān svacchaḥ
candramasaḥ śuklaḥ upalakṣyate | tena ca amī jyotsnāvitānāvabhāsināḥ candrakarāḥ |
tena tarhi savitr̥marīcayaḥ tu sa[līla]maye svabhāvāt eva [svaccha]candrabimbe
sammūrcchitāḥ naiśam dhvāntam avadhvāṃsayanti, yathā darpaṇe jale vā divasakarāḥ
sammūrcchitāḥ santaḥ gr̥hāntargatam tamaḥ kṣapayanti |

[candraśṛṅgonnatih]

anyat ca ā yaḥ yaḥ candrabimbapradesāḥ savitr̥mārge r̥jutvena vyavasthitaḥ sa eva
śṛṅgonnatau upalabhyate, na itaraḥ | tathā ca tat jijñāsavaḥ karma kurvanti | tat yathā ā
śuklapratipadādiṣu sūryārdhāstamayakālikau sūryācandramasau kṛtvā
sūryonacandrotkramajyā gr̥hyate | sā yasmāt pratidivasam upacīyamānā, candramasaḥ
śuklam upacīyate | utkramajyā ca upacīyamānapramāṇā | tena tayā utkramajyayā
trairāśīkam ā yadi vyāsārdhatulyayā utkramajyayā
sphuṭacandrabimbārdham upalabhyate, tadā anayā utkramajyayā kiyat iti, tat
kālasitamānam labhyate | śuklāṣṭamyāḥ parataḥ yā sitavr̥ddhiḥ sā kramajyāvaśāt
upacīyamānā lakṣyate iti kramajyā gr̥hyate | tāḥ kramajyāḥ pūrvopacitavyāsārdhājyāsu
prakṣipyā trairāśīkam kriyate | athavā ā tābhiḥ eva kramajyābhiḥ candrabimbārdhena
trairāśīkam kṛtvā yat labdham candrabimbārdhe prakṣiptam sitamānam bhavati |

śuklapratipadādiṣu yathā candramasaḥ sitamānam vardhate
tathā kṛṣṇapratipatprabhṛtibhyaḥ sitamānam utkrameṇa apacīyate | tena
sūryācandramasoḥ viśeṣāt rāśiṣaṭkam apanīya tathā eva karma kriyate |

[candrasya darśanakālaḥ]

darśanakālaḥ hi yāvantaṁ kālam candraḥ dṛśyate | yavatā kālena udeti tat
ānayanopāyaḥ ā śuklapakṣe tāvat udayarāśivaśāt eva jyotiścakragatiḥ iti ataḥ yāvantaḥ
sūryāt candrarāśibhāgāḥ tāvantaḥ eva udayāvadheḥ svadeśarāśyudayaprāṇāḥ
parigrhyante | tat yathā ā āstamayike savitari ṣaḍrāśayaḥ parikṣipyante sa sūryāt
saptamaḥ rāśiḥ bhavati | tathā ca candramasi ṣaḍrāśayaḥ parikṣipyā
sūryagatarāśibhāgān triṁśatā viśodhayet śeṣam sūryasya āgatarāśibhāgaḥ
| tat ṣaḍrāśiyutasūryavartamānarāśyudayena saṅguṇayya triṁśatā vibhajet, labdham
prāṇāḥ | tān ekataḥ vinyaset | sūryāgatarāśibhāgān ca ṣaḍrāśiyutasūrye prakṣipyā tāvat
svadeśarāśyudayaprāṇāḥ saṁkalanīyāḥ yāvat ṣaḍrāśiyutacandragatāḥ bhāgāḥ | tataḥ
ṣaḍrāśiyutacandragatāḥ bhāgāḥ tat rāśyudayaprāṇaiḥ saṅguṇya triṁśatā vibhajet,
labdham prāṇāḥ | tān pūrvasaṅkalitaprāṇān ca sarvān ekatra nyastaprāṇeṣu prakṣipyā
ṣaḍbhiḥ bhāgaḥ, labdham vighaṭikāḥ, ṣaṣṭyā
ghaṭikāḥ | evam ghaṭikādilakṣaṇaḥ darśanakālaḥ | tāvatā kālena sūryācandramasoḥ
gativiśeṣaḥ asti iti aviśeṣakarma pravartate | tat yathā ā yadi ṣaṣṭyā ghaṭikābhiḥ
sūryabhuktiḥ candrabhuktiḥ vā labhyate tataḥ anena darśanakālena te kiyatyau tayoh
bhuktī iti | sūryabhuktilabdham ṣaḍrāśiyuktasūrye prakṣipet, candrabhuktilabdham api
ṣaḍrāśiyutacandramasi prakṣipyā tāvat idam kuryāt yāvat aviśeṣaḥ | tatra yaḥ aviśiṣṭaḥ
kālaḥ sa darśanakālaḥ | tāvantaṁ kālam śarvaryām
śaśī dṛśyate | yaḥ ca ṣaḍrāśiyuktaḥ candraḥ aviśiṣṭaḥ tasmāt cakrārdham apanayet
tāvān candraḥ darśanakālaparisamāptau astam eti |

atha kaścit yadi kiyatā kālena a[na]stamite savitari candrodayaḥ bhaviṣyati iti etat
jijñāsuḥ, idam karma kuryāt | tat yathā ā avikṛtāstamayakālādityabhāgebhyaḥ prabhṛti
tāvat prāṇāḥ saṃkalanīyāḥ yāvat avikṛtaśītāṃsoḥ gatabhāgaprāṇāḥ | tān pūrvavat
ghaṭikāḥ kṛtvā [dina]pramāṇaghaṭikābhyaḥ viśodhayet | tatra yaḥ śeṣaḥ sa divasaśeṣaḥ
| tāvatā divasaśeṣeṇa tadā candrodayaḥ bhaviṣyati | atra api sūryācandramasoḥ
aviśeṣakarma pravartate | tat yathā ā āsām
nāḍīnām yaḥ yaḥ bhogaḥ tena adhikau sūryācandramasau iti ataḥ tābhyām apanīya
apanīya aviśeṣaḥ kriyate | aviśeṣitaḥ darśanakālaḥ tāvatā kālena divasaśeṣaḥ eva
candrodayaḥ | yaḥ asau aviśiṣṭaḥ candraḥ tāvān tatra divasaśeṣodayakāle candraḥ |

athavā prathamānītadivasaśeṣacandrodayakālena candramasaḥ bhuktim saṅguṇayya
ṣaṣṭyā vibhajet | labdham candrāt viśodhayet | sa tāvat divasaśeṣakālikaḥ candraḥ
bhavati | tataḥ prathamānītadivasakālena udayalagnam kuryāt | tat udayalagnam tena
divasaśeṣoditacandreṇa tulyam yadā, tadā divasaśeṣam candrodayakālaḥ | atha yadi
tasmāt lagnāt ūnaḥ candraḥ tadā prathamataram uditaḥ iti | tayoḥ lagnacandrayoḥ
antarālaprāṇān prathamānītadivasaśeṣakālāt
viśodhayet | teṣām ca prāṇānām yāvatī candrabhuktiḥ trairāśikena labhyate tāvatī
prathamadivasaśeṣoditakālacandrāt viśodhyate tāvān candraḥ divasaśeṣoditaḥ, tāvān
ca divasaśeṣakālaḥ | candraḥ ca yadā adhikaḥ tadā pūrvavat tadantaraprāṇān
divasaśeṣakāle prakṣipet tāvatām prāṇānām candrabhogam candramasi prakṣipet,
tāvat karma yāvat aviśeṣaḥ | athavā prathamāstamayikacandrāt eva
antarotpannadivasaśeṣakālabhogaḥ candramasaḥ viśodhya tat kālalagnakrameṇa
aviśeṣakarma kriyate |

atha yadi udayalagnāt candraḥ adhikaḥ tadā [kiyan]nāḍyā abhyudeti candraḥ iti
tadantaraprāṇān prathamānītadivasaśeṣe prakṣipet | tat bhuktim candramasi prakṣipet
tāvat yāvat aviśeṣaḥ | evam udayalagnam candraḥ ca kṛtaḥ bhavati,

divasaśeṣacandrodayakālaḥ ca | evam yāvat paurṇamāsī tāvat darśanakālānayanam |
paurṇamāsyām punar tāvat eva antaraghaṭikāḥ yadi dinapramāṇaghaṭikābhyaḥ ūnāḥ
bhaveyuḥ tadā anastamite āditye candrodayaḥ, yadi atiriktāḥ
tadā astamgate | ubhayatra api antarakālapramāṇena aviśeṣakarma anantarakarmavat
eva | kṛṣṇapakṣapratipadādiṣu ca candrādityāntaraghaṭikābhyaḥ dinapramāṇaghaṭikāḥ
viśodhya śeṣa[ghaṭikā]bhiḥ bhuktiḥ trairāsikena sūryācandramasau sañcārya punar
tayoḥ antaraghaṭikābhyaḥ dinapramāṇaghaṭikāḥ viśodhayet | śeṣaghaṭikābhiḥ
candrādityau tadantarālaghaṭikāḥ iti ādyaviśeṣāntam karma kriyate, tatra aviśiṣṭena
kālena [sūryāstamayāt paścāt candrodayaḥ | evam
eva aviśiṣṭena kālena] sūryodayāt prāk candrodayaḥ |

atha anastamite savitari kiyatā kālena candraḥ astam yāsyati iti etat jijñāsuḥ idam
karma kuryāt | tat yathā ā sūryodayakālotpannam candramasam kṛtvā tatra rāsīṣaṭkam
prakṣipet | [tataḥ] prāk candrodayaḥ [jñātavyaḥ] | atha audayikāt ādityāt
ṣaḍrāsīyuktaniśākāravadheḥ svadeśarāśyudayavidhānena yāvatyaḥ ghaṭikāḥ tāḥ
aviśeṣyante | katham? tāsām trairāsikena yāvat candramasaḥ bhuktiḥ tām candramasi
prakṣipet iti ataḥ punar api tasmāt ādityāt
ṣaḍrāsīyuktacandrāvadheḥ pūrvavat ghaṭikāḥ tāvat yāvat aviśeṣaḥ | tatra yāḥ aviśeṣitāḥ
ghaṭikāḥ tāvatībhiḥ divase vyatītābhiḥ candraḥ astam eti | divasapramāṇāt viśodhya
śeṣam dinaśeṣaghaṭikāḥ ca | atra yaḥ aviśiṣṭaḥ candraḥ sa tasmin kāle tāvān, yaḥ ca
ṣaḍrāsīyuktaḥ candraḥ sa tasmin kāle udayalagnam iti |

[candrasya yāmyottarapradeśaḥ]

atha kaścit kiyatā kālena śuklāṣṭamyā parataḥ candraḥ gaganamadyam avagāhate,
kiyān vā tatra candraḥ iti jijñāsuḥ, idam karma kuryāt | atha tatkālāt parataḥ svadhiyā
āsannau madhyalagnaniśākārau abhyūhya, tatra yadi madhyalagnaniśākārau tulyau

syātām tadā tāvān candraḥ tāvatā eva kālena gaganamadhyam āroṣyati | atha yadi
adhikaḥ candraḥ tadā na adya api prāpnoti gaganamadhyam | tatra
madhyalagnacandrāntarakālam svadhiyā abhyūhitakāle
prakṣipyā madhyalagnacandrau kuryāt yāvat tulyau iti | atha madhyalagnāt ūnaḥ
candraḥ tadā tadantarālakālam svadhiyā abhyūhita[kālāt viśodhya]
madhyalagnacandrau tāvat kuryāt yāvat madhyalagnacandrau tulyau syātām | evam
prasādhitagaganamadhyādhirūḍhāmṛtadīdHITEḥ apakramavikṣepākṣaiḥ madhyacchāyā
prasādhyate |

[candraśṛṅgonnatiparilekhanavidhiḥJ]

atha candrāgrācandraśaṅkvagrayoḥ tulyadikkayoḥ yogoḥ, bhinnadikkayoḥ viśeṣaḥ, tat
yogaviśeṣatulyam iṣṭakāle [bāhu]ḥ candramasaḥ | sa ca antarālataḥ sūryāgrayā saha
ekadikkam viśeṣyate, yataḥ arkāt eva uttareṇa dakṣiṇena vā candraḥ sādhyate, na
viṣuvataḥ | vidikkayoḥ yojyate yasmāt yogoḥ arkacandrāntaram | etat chedyake gole vā
pradarśyam | evam pariniṣṭhitapramāṇam bhujā sūryāt yāmya uttarāyatā prasāryate |
candraśaṅkuḥ koṭiḥ | sa yadi sūryāt
uttareṇa candraḥ tadā bhujottarāgrataḥ pūrvāparāyatā prasāryate | yadā dakṣiṇena
candraḥ sūryāt tadā tasyāḥ bhujāyāḥ dakṣiṇāgrataḥ pūrvāparāyatā | evam bhujakoṭi
yathāgatapramāṇena vinyasya bhujākoṭimastakāvagāhī karṇaḥ dūranirgatāgraḥ
prasārya koṭyagrakarṇasampāte kendram viracya candrabimbam ālikhet | tasya
candrabimbaparidheḥ aparataḥ karṇānusāreṇa sitamānam nītvā bindum kuryāt |
candrabimbakendrapūrvāpare karṇaḥ, tat matsyavidhānāt dakṣiṇottare
sādhye | dakṣiṇottararekhācandraparidhisampāte bindū kriyete | tataḥ tābhyām
pūrvavihitabindunā ca tathā chedyakavidhānena tat bindutrayaśiraḥsprgvṛttam ālikhet |
tasya vṛttasya candrabimbaparidheḥ ca yat antaram tat candramasaḥ śuklaḥ | atha eva
śṛṅgonnatih nabhasi upalakṣyate |

śuklāṣṭamyāḥ parataḥ astakālodayalagnāgrajyayā arkāgrāvat karma [kriyate] |
candrodayalagnāntaraprāṇotpannaḥ śaṅkuḥ, koṭiḥ aparābhimukhī tathā eva prasāryate
| tatra yathāgatam sitamānam candrabimbapramāṇāt viśodhyam śeṣam asitam bhavati
| tatkarṇānusāreṇa candraparidhipūrvabhāgāt bimbāntare asitamānam nītvā bindum
kuryāt | tena dakṣiṇottarabindubhyām ca pūrvavat bindutrayaśiraḥsprgvṛttam ālikhet |
tasya candrabimbaparidheḥ ca yat
antaram tat asitam | kṛṣṇapratipadādiṣu ca
aparābhimukhaprasāritakoṭīkarṇāgralikhitacandraparidhyaparabhāgāt karṇānusāreṇa
asitam antaḥ pūrvavat vṛttam ālikhet | iṣṭakāle tu yathā pratyāsannāstodayalagnajyām
arkāgrām parikalpya tatkālacandraśaṅkvagram āpādya
iṣṭalagnacandrāntaraprāṇotpannaśaṅkukoṭyā candraḥ parilekhanīyaḥ | evam sarvatra
kṣitijāt upari vyavasthitasya candrasya parilekhanaprakriyā |

[gṛhapaṭalam vidārya śṛṅgonnatidarśanam]

atha śaṅkubhujākoṭīkarṇapramāṇaparikalpitayantrāgre gṛhapaṭalabimbāntare
śīśiradīdhitigaṇitasitapramāṇaśṛṅgonnatīḥ pradṛśyate | tat yathā ā samyak
prasiddhagr̥hodare pūrvāpararekhātaḥ uttareṇa dakṣiṇena vā
parikalpitāṅgulapramāṇam arkāgrāsūtram pūrvavat prasārya bindum kuryāt | saḥ
arkabinduḥ | pūrvāpararekhāyāḥ eva dakṣiṇottarataḥ candrāgrataḥ śaṅkvagrayoḥ
yogaviśeṣajyāṅgulatulyam sūtram yathā āgatadiśam prasārya bindum kuryāt
| sa śaśibinduḥ | arkendubindvoḥ antarāṅgulatulyā bhujā | tatkāla[candra]śaṅkutulyā
koṭiḥ avalambakaḥ | tadanusāreṇa avalambakasthityā candrabimbānusāriṇyā
gṛhapaṭalam vidārayet | tatra śaṅkvagrāyatadaṇḍaśirasi yathālikhitam tat
chedyakasitaśṛṅgonnatim arkabindunyastadr̥ṣṭiḥ karṇānusāreṇa
utkṣiptāvalambakāṅgulapramāṇamastakāsaktam śaśalakṣmāṇam paśyati | evam eva

grahāḥ api gṛhodaravyavasthitaiḥ darśanīyāḥ iti |

[ardhodite candre śṛṅgonnatikalpanā]

kṣitijamaṇḍalākrāntārdhabimbasya candramasaḥ koṭeḥ abhāvāt na parilikhyate | tatra
udayāstajyācandrāgre śṛṅgasya unnatiḥ parikalpyate | tat yathā ā yadi candrāgrā
dakṣiṇena udayajyā uttareṇa tadā candramasaḥ uttaraśṛṅgam prāk pradṛśyate, yataḥ
bhavṛttacandraḥ dakṣiṇena vyavasthitaḥ | bhavṛttacandrānusāreṇa ca sūryamarīcayaḥ
candrabimbam karṇagatyā avagāhante | yadā punar candrāgrā uttareṇa udayajyā
dakṣiṇena tadā candramasaḥ dakṣiṇaśṛṅgam
prāk pradṛśyate | yasmāt candramasaḥ dakṣiṇena bhavṛttaḥ sthitaḥ | bhavṛttānusāreṇa
ca sūryamarīcayaḥ candrabimbam avagāhante | dakṣiṇena tulyadikkayoḥ viśeṣaḥ,
candrāgrā yadā atiricyate tadā candramasaḥ uttaraśṛṅgam prāk pradṛśyate, anyathā
dakṣiṇam | uttareṇa yadā candrāgrā atiricyate tadā dakṣiṇaśṛṅgam prāk pradṛśyate,
anyathā uttaram | yadā punar viśeṣeṇa na kiñcit antaram tadā yugapat
ubhayaśṛṅgadarśanam | yadā ca udayajyā candrāgre na bhavataḥ
tadā ca astamaye candramasaḥ astalagnajyayā candrāgrayā ca śṛṅgasya prāk paścāt
vā astamayam parikalpanīyam |

[candrasya sitāsitaḥetuḥ]

evam candramasaḥ sitāsitaśṛṅgonnatidarśanakālādayaḥ savitrvaśāt eva | evam ca
nirukte paṭhyate ā

tasya ekau raśmiḥ candramasam prati dīpyate |

na hi tena upekṣitavyam | ādityataḥ asya dīptiḥ bhavati |

suṣumṇaḥ sūryaraśmicandramāḥ gandharvaḥ |

[vājasaneyasaṃhitā, a1 18, maṃi 40; taittirīyasaṃhitā, 3.4.7.1]

iti api ca nigamaḥ bhavati iti | tasmāt etena eva liṅgena candramārgāt upari
sūryamārgaḥ iti, anyathā anupapatyā | pariśiṣṭāḥ ca tārāgrahāḥ sūryamārgāt upari
dūreṇa vyavasthitāḥ | tena teṣāṃ ārātsthitāni golārdhāni sarvadā sakalāni eva cakāsate
| ūrdhvamukhāḥ sūryamarīcayaḥ sadā ārādbhāgam prakāśayanti iti | budhaśukrayoḥ ca
pratyāsannavartitvāt sarvataḥ bimbam avagāhante arkamarīcayaḥ
pradīpapratyāsannagolavat tena tayoḥ api asakalabimbatābhāvaḥ | yadi
evam astamite savitari katham ete grahādayaḥ cakāsate savitrkarābhāvāt ? na eṣaḥ
doṣaḥ | bhūmeḥ dūreṇa sūryamārgaḥ | tena uparimukhānām sūryamarīcīnām na
vyavadhānāya bhūḥ vartate | yathā ghaṭasya upari adhaḥ dūreṇa avasthitasya
pradīpasya ghaṭaḥ na vyavadhānakāraṇam | kṛṣṇapakṣapratipadādiṣu candramasaḥ
bimbapūrvabhāgaḥ pratyāsannaḥ savituḥ iti tena tat śuklam upalabhyate | ratnānām ca
ādityakarāḥ eva dīptikāraṇatvam prapadyate | tena tāni
api rātrau na prakāśātmakāni | uktam ca ratnaparīkṣāyām ā

bhānoḥ ca bhāsām anuvedhayogam āsādyā raśmiprakareṇa dūram |
pārsvāṇi sarvāṇi anurañjayanti guṇaiḥ upetāḥ sphaṭik[ādayaḥ hi] ||

[yat] upākhyānādiṣu ratnāni eva dhvāntam dhvaṃsayanti iti śrūyate tat upākhyāna[m
arthavādamātra]m eva |

anye punar anyathā manyante ā

svacchāyayā arkasāmīpyāt vikalendusamīkṣaṇam |

iti | svacchāyayā candraḥ śuklaḥ upalabhyate, tasya śuklasya candramasaḥ
savitr̥sannikarṣāt vaivarṇyam bhavati iti | kutaḥ etat? yadi svabhāvataḥ śuklasya
candramasaḥ sūryasannikarṣāt vaivarṇyam syāt tadā śuklapratipadādiṣu candrasya
aparabhāgaḥ vivarṇaḥ syāt sūryasannikarṣāt, na pūrvabhāgaḥ | tathā ca avānmukham
candrabimbam upalakṣyate | tasmāt mithyājñānam eva etat yat saugataiḥ ucyate || 5 ||

[bhūgolasamsthānam]

bhādikakṣyābhūsamsthānapradarśanāya āha ā

vṛttabhapañjaramadhye kakṣyāpariveṣṭitaḥ khamadhyagataḥ |
mr̥jjalaśikhivāyumayaḥ bhūgolaḥ sarvataḥ vṛttaḥ || 5 ||

bhāni jyotīṃṣi nakṣatrāṇi | teṣām bhānām pañjaraḥ bhapañjaraḥ | yasmāt [bhāni]
samantataḥ viyati pañjarasthāni iva lakṣyante tataḥ anena darśanena etat uktam | vṛttaḥ
ca asau bhapañjaraḥ ca vṛttabhapañjaraḥ | vṛttabhapañjaramadhyam, madhyam antaḥ,
tasya vṛttabhapañjarasya | tatra vṛttabhapañjaramadhye | kakṣyāpariveṣṭitaḥ
kakṣyābhiḥ grahāṇām pariveṣṭitaḥ kakṣyāpariveṣṭitaḥ | khamadhyagataḥ, kham
ākāśam, tasya madhyam khamadhyam, khamadhyamgataḥ
khamadhyagataḥ, ākāśamadhyasthaḥ iti yāvat | katham ākāśamadhye nirālambanā
bhūḥ avatiṣṭhate? [ucyate ā svabhāva]prādhānyāt; yathā salilāgnivāyavaḥ
kledadahanapreraṇātmakāḥ, na teṣām anyaḥ asti kaścit
kledadahanapreraṇaprayojakaḥ, evam iyam api bhūḥ dhāraṇātmikā, na ca
dhāryamāṇātmikā | athavā patantī bhūḥ, "patatu adhaḥ" iti āha | atha kim idam adhaḥ
nāma | yathā asmadīyānām pṛthivī adhaḥ, evam pṛthivyāḥ kim adhaḥ? "adhaḥ"-śabdhaḥ

ca digvācī,

diśaḥ ca vyavasthāpekṣayā bhavanti | yathā yatra vivasvān udeti sā prācī, yatra astam
eti sā parā, yasyām adṛśyaḥ gacchati sā uttarā, śeṣā dakṣiṇā | āsām antarāleṣu eva
vidiśaḥ | evam upari adhaḥ ca pṛthivī apekṣayā bhavataḥ | tena tasyāḥ pṛthivyāḥ na
kiñcit upari, na adhaḥ, tasmāt patanābhāvaḥ bhuvaḥ | evam ca pṛthivyāḥ ardhm
pariveṣṭyā avasthitaḥ samudraḥ na patiti | patantyām ca bhuvi loṣṭaśilīmukhādayaḥ
viyati kṣiptā na bhuvam āsādayeyuḥ | bhūḥ mandam
patati iti cet, sādhyate ca etat māyāvidbhiḥ ca, viyati khātakīlakaḥ anāśrayaḥ bhavet |
atha anye manyante ā śeṣeṇa anyena [vā] bhūḥ dhriyate iti | tat uktam | śeṣādīnām api
avaśyam ādhāraviśeṣaḥ kaścit kalpanīyaḥ, [taya anyāḥ ā]dhāraḥ syā[t tasya api anyāḥ]
iti anavasthā | atha te svaśaktyā eva avatiṣṭhante iti cet, bhuvaḥ eva kasmāt sā śaktiḥ
na parikalpyate | tasmāt jagataḥ dharmādharmāpekṣayā sarvabhūtadhātrī bhūḥ niścalā
ākāśe tiṣṭhati | mṛjjalaśikhivāyumayaḥ
bhūgolaḥ, pratyakṣam yataḥ upalabhyate | sarvataḥ vṛttaḥ | mṛdādinā kāṣṭhādinā vā
ayaḥśalākāyām madhye samavṛttavat avagantavyaḥ | asya bahiḥ candrādīnām kakṣyāḥ
darśayitavyāḥ || 6 ||

[bhūgolaprṣṭhe prāṇinām sthitiḥ]

bhūgolapradarśanāya āha ā

yadvat kadambapuṣpagranthiḥ pracitaḥ samantataḥ kusumaiḥ |
tadvat hi sarvasattvaiḥ jalajaiḥ sthalajaiḥ ca bhūgolaḥ || 7 ||

yadvat kadambapuṣpagranthiḥ [samantāt kesaraiḥ] pracitaḥ, vyāptaḥ iti arthaḥ, tathā
ayam bhūgolaḥ samantāt jalajaiḥ sthalajaiḥ ca prāṇibhiḥ āvṛttaḥ | atha ye bhuvi
vyavasthitāḥ prāṇinaḥ parvatādayaḥ teṣām katham avasthānam tat ucyate ā yatra yatra
prāṇinaḥ gacchanti tatra tatra teṣām bhūḥ eva adhaḥ, viyat upari pratibhāti yathā

asmākam || 7 ||

[bhuvahḥ vṛddhyapacayau]

bhūvṛddhyapacayajñānāya āha ā

brahmadivasena bhūmerupariṣṭāt yojanam bhavati vṛddhiḥ |
dinatulyayā ekarātryā mṛdupacitāyāḥ bhavati hāniḥ || 8 ||

trṇakāṣṭhabhasmādirūpeṇa vidyamānāyāḥ [bhuvahḥ] yojanavṛddhiḥ bhavati | ataḥ eva
gṛhapādapatadāgādikhāteṣu ghaṭapiṭakādi upari upari avayavāḥ labhyante |

dinatulyayā ekarātryā brahmadivasatulyayā rātryā | mṛdupacitāyāḥ bhavati hāniḥ | mṛdā
upacitā mṛdupacitā, tasyāḥ mṛdupacitāyāḥ hāniḥ bhavati | kena punar kāraṇena yat
upacitam buvaḥ tat parikṣīyate? brahmadivasāvasāne kila samvartakābhidhānaiḥ
jaladharaiḥ vicchinnadhārābhimuktena payasā yat upacitam bhuvahḥ tat parikṣīyate || 8 ||

[bhūpramāṇam]

bhūbhramaṇavācakapūrvottarapakṣapratipādanāya āha ā

anulomagatiḥ nausthaḥ paśyati acalam vilomagam yadvat |
acalāni bhāni tadvat samapaścimagāni laṅkāyām || 9 ||

anulomagatiḥ nausthaḥ, kaścit anulomagatiḥ nausthaḥ, paśyati acalam, na calam
vastugatyā api sthiram, vilomagam yathā paśyati saritsāgarobhayataṣṭhitam
vṛkṣadikam, [tathā eva] ca bhūmau prāṇmukham bhramatyām upari[sthitāḥ janāḥ]

nabhasthitāni acalāni bhāni pratilomagāni aparagāni paśyanti | tathā hi laṅkāsthāḥ
bhāni samapaścimagāni paśyanti | laṅkā upalakṣaṇamātram | evam anye api paśyanti |
tasmāt iyam bhūḥ eva prāṇmukham bhramati
| niścalam jyotiścakram | bhūgatyā taduparisthitaḥ yaḥ bhacakrapradeśaḥ purastāt sa
udayan iva ca lakṣyate, yaḥ tu madhye sa gaganamadhyasthitaḥ iva, yaḥ hi dūreṇa saḥ
astam gacchan iva lakṣyate | anyathā hi niścalasya bhacakrasya udayāstāsambhavaḥ
syāt |

idam asya ādarśanam | bhūmaṇḍale bhramati [sati] jagat jaladhinā āplāvet,
bhūgolavegajanitaprabhañjanena ākṣiptāḥ taruśikharaprāsādādayaḥ viśīryeran |
pakṣiṇaḥ api viyati utpatan na svanīḍam āsādayeyuḥ | tasmāt dharitṛbhramaṇe na
kiñcit liṅgam asti | tasmāt anyathā vyākhyeyam sūtram | yathā anulomagatiḥ nausthaḥ
puruṣaḥ calavastūni vilomagam paśyati, evam bhāni calāni pravahānilākṣiptāni
vegavaśāt laṅkāyām yāni vastūni tāni pratilomagāni
paśyanti; adhovyavasthitām bhuvam niścalām bhramantīm iva paśyanti | pratyakṣe api
nakṣatrāṇi prāguditāni aparām diśam āsādayanti || 9 ||

[bhūbhramaṇakāraṇam]

bhramaṇakāraṇam āha ā

udayāstamayanimittam nityam pravahēṇa vāyunā kṣiptaḥ |
laṅkāsamapaścimagaḥ bhapañjaraḥ sagrahaḥ bhramati || 10 ||

udayaḥ ca astamayaḥ ca [udayāstamayau | tayoh] udayāstamayayoḥ nimittam nityam
pravahēṇa pravahasamjñitena vāyunā kṣiptaḥ bhapañjaraḥ, bhapañjaraḥ api nityagatiḥ
eva, laṅkāyām samapaścimaḥ yaḥ dikpradeśaḥ sa laṅkāsamapaścimaḥ, tam gacchati

iti laṅkāsamapaścimagahaḥ, saha grahaiḥ vartate iti sagrahaḥ, bhramati kṣaṇam api na
avatiṣṭhate |

yadi api grahāḥ prāṇmukham vrajanti tathā api bhapañjarāpekṣayā
aparadiksaṅkramaṇam kurvanti, mahatā bhapañjaragatyā nīyamānāḥ lakṣyante,
kulālacakrasthāḥ kīṭāḥ iva || 10 ||

[meruvarṇanam]

merupramāṇam āha ā
meruḥ yojanamātraḥ prabhākarahimavatā parikṣiptaḥ |
nandanavanasya madhye ratnamayaḥ sarvataḥ vṛttaḥ || 11 ||

yojanam mātrā yasya sa yojanamātraḥ, pramāṇe mātranpratyayaḥ | prabhākarah,
prabhām karoti iti prabhākarah | [himavatā parikṣiptaḥ], himavatā parvatena samantāt
veṣṭitaḥ | [nandanavanasya madhye], nandanam vanam [devānām
apsarogaṇaparivṛtānām] krīḍāsthānam, tasya madhye | ratnamayaḥ | ratnāni
[suvarṇarajata]muktāpravālapadmarāgamarakataprabhṛtīni, taiḥ nirmitaḥ ratnamayaḥ |
[sarvataḥ] samantāt | vṛttaḥ golakākārah ity arthaḥ |

atha paurāṇikaiḥ lakṣayojanapramāṇaḥ meruḥ paṭhyate tat yuktirahitam | [laṅkātaḥ
yāvat merumadhyam tāvat yojanasahasram api na asti, kutaḥ tat ekadeśe bhaviṣyati |
atha bhūḥ eva mahāpramāṇā parikalpyate, tat ayuktam || yat sapañcāśatsahasram
yojanānām bhūvyāsāmanam akṣonnatiprasādhitam tat sopapattikam |
grahodayāstamayamadhyāhnicchāyāvanatilambanādibhiḥ siddham utsrjya kim anyat
upalabhyate |

kim ca purāṇeṣu puṣkaradvīpasya uparigataḥ vivasvān madhyāhnam karoti iti paṭhyate
| lakṣayojanānām kila jambūdvīpaḥ, [tataḥ dviguṇottarāḥ] samudrāḥ [dvīpāḥ ca] sapta,
saptamaḥ ca puṣkaradvīpaḥ | tat anekaiḥ yojanasahasraiḥ antaraiḥ vyavasthitam | tatra
yadi madhyāhnaḥ vivasvataḥ syāt asmākam uttaragolabhūtāt śaṅkoḥ chāyānāśaḥ
[na] syāt | dr̥śyate tacchāyānāśaḥ | tasmāt viṣuvati laṅkāmadhye savitā gacchati iti
siddham | [viṣuvati laṅkāmadhye
na savitā gacchati iti taiḥ eva uktam | tat ca atidūratvāt na ghaṭate | yadi pataṅgavat
utplutya gacchati tataḥ yujyate | tat ca aśakyam parikalpayitum, pratyakṣaviruddhatvāt]
tasmāt dhruvonnatyā [ānītam eva] bhuvaḥ pramāṇam siddham | tatra mahāpramāṇasya
meroḥ avasthānam eva na asti |

[yadi kathaṅcit mahāpramāṇaḥ eva meruḥ avatiṣṭhate tadā sa kim asmābhiḥ na dr̥śyate
|] dūratvāt meruḥ asmābhiḥ na dr̥śyate, athavā niṣprabhatvāt tat na dr̥śyate, na tarhi
ratnamayaḥ | kim ca yadi mahāpramāṇaḥ meruḥ syāt meruśikharāntaritatvāt bhāvāt
uttareṇa tārakāḥ na dr̥śyeran | tasmāt tasya kanakagireḥ upariśikharapradeśe eva
sarvaratnamayaḥ meruśabdena ucyate || 11 ||

[merubaḍavāmukhayoḥ sthitī]

kva bhūpradeśe meruḥ, kva vā baḍavāmukham iti āha ā

svaḥ merū sthalamadhye narakaḥ baḍavāmukham ca jalamadhye |
amaramarāḥ manyante parasparam adhaḥsthitāḥ niyatam || 12 ||

svaḥ svargopalakṣitaḥ, meruḥ ca, sthalamadhye | narakaḥ baḍavāmukham ca
jalamadhye | amaramarāḥ amarāḥ devāḥ, marāḥ narakasthāḥ, te parasparam
adhaḥsthitāḥ manyante | yataḥ sarveṣām bhūḥ adhaḥ, ataḥ anyonyam adhaḥsthitāḥ

manyante | yatra uttarena ayaḥśalākā bhuvam bhītvā nirgatā tatra pradeśe svargaḥ
meruḥ, yatra dakṣiṇena nirgatā tatra narkaḥ baḍavāmukham ca || 12 ||

[udayādivyavasthā]

prakṛṣṭadeśāntaravyavasthitān deśān āha ā

udayaḥ yaḥ laṅkāyām saḥ astamayaḥ savituḥ eva siddhapure |
madhyāhnaḥ yamakoṭyām romakaviṣaye ardharātraḥ syāt || 13 ||

laṅkānivāsinām yaḥ udayaḥ sa eva siddhapuranivāsinām astamayaḥ, [yataḥ
laṅkāpradeśāt adhaḥ vyavasthitam siddhapuram] | madhyāhnaḥ yamakoṭyām, yaḥ eva
laṅkāpuranivāsinām udayaḥ sa eva yamakoṭīnivāsinām madhyāhnaḥ, yataḥ
laṅkāpradeśāt pūrvasyām bhūparidhicaturbhāge yamakoṭiḥ | yaḥ laṅkānivāsinām
udayaḥ sa romakanivāsinām ardharātraḥ, yataḥ laṅkātaḥ aparabhāge
bhūparidhicaturbhāge romakam | evam ete bhūcaturthabhāg[āntarāla]vyavasthitāḥ
sthalajalasanghivartinaḥ deśāḥ parasparam
ahorātracaturbhāgakāladeśāntarapramāṇāḥ pradarśayitavyāḥ || 13 ||

[samarekhāsthanagaryau]

deśāntarapradarśanārtham āha ā

sthalajalamadhyāt laṅkā bhūkakṣyāyāḥ bhavet caturbhāge |
ujjayinī laṅkāyāḥ taccaturamṣe samottarataḥ || 14 ||

sthalamadhyāt meroḥ ārabhya jalamadhyāt ca baḍavāmukhāt laṅkā bhūkakṣyāyāḥ

caturthabhāge vyavasthitā | bhūparidhiḥ

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17

25, caturbhāgaḥ

824

67

100 | etāvati antare vyavasthitā | ujjayinī sthalajalasanghivartilaṅkāyāḥ samottare
digbhāge vyavasthitā | taccaturaṃśe, tasya bhūcaturthabhāgasya caturthabhāge |
bhūparidheḥ ṣoḍaśabhāgaḥ

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400 | etāvati antare laṅkātaḥ ujjayinī |

laṅkojjayinīsamadakṣiṇottararekhāyām vātsyagulmacakorapuraprabhṛtīni sthānāni
vyavasthitāni | ujjayinyāḥ uttareṇa
daśapuramālanagaracaṭṭaśivasthāneśvaraprabhṛtīni yāvat meruḥ iti |

sarve grahāḥ karaṇāgatāḥ bhūmadhyasamadakṣiṇottararekhāyām bhavanti |
pūrvabhāgavyavasthitāḥ prathamataram eva ravim paśyanti, ataḥ deśāntaraphalam
apanīyate | paścimabhāge [vyavasthitāḥ] cireṇa paśyanti, ataḥ tatra deśāntaraphalam
kṣipyate | svadeśākṣasamarekhākṣavivarabhāgaiḥ trairāśikam ā yadi cakrāṃśakaiḥ
bhūparidhiyojanāni labhyante

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17

25,

tadā akṣāṃśāvivarabhāgaiḥ kim iti, samadakṣiṇottararekhāntarālayojanāni bhavanti
koṭyātmakāni | svadeśasthānataḥ tiryagvyavasthitojjayinyādisthānam | tasya

antarālayojanāni lokāt avagatāni karṇaḥ | karṇakoṭivargaviśeṣamūlam bhujayojanāni |
tataḥ yadi vyāsārdhatulyāvalambake[na bhūparidhiḥ tadā iṣṭāvalambakena kā iti,
spaṣṭabhūparidhiḥ | punar yadi] spaṣṭabhūparidhinā grahabhuktiḥ labhyate
deśāntarajojanaiḥ kā bhuktiḥ iti deśāntarphalam labhyate | pūrvavat
dhanam ṛṇam iti || 14 ||

[bhagolasya dṛśyādrśyabhāgau]

bhagoladrśyādrśyajñāpanāya āha ā

bhūvyāsārdhena ūnam dṛśyam deśāt samāt bhagolārdham |
ardham bhūmicchannam bhūvyāsārdhādhikam ca eva || 15 ||

bhuvāḥ vyāsaḥ bhūvyāsaḥ tasya ardham bhūvyāsārdham, 525 | tena ūnam
bhagolārdham dṛśyam upalabhyate | kasmāt? samāt deśāt | anantaritaḥ samaḥ,
mahādrīdrumādyunnatapadārtharahitaḥ deśaḥ samaḥ iti | ardham bhūmicchannam na
dṛśyate bhūvyāsārdhena adhikam adṛśyam |

etat jijñāsuḥ bhūgolaprṣṭhāvagāhi sūtram prasārya pūrvakṣitije aparakṣitije [ca]
badhnīyāt | bhūprṣṭhasthitasya draṣṭuḥ prasāritasūtrānusāriṇī dṛṣṭiḥ yāti | tatra
[pūrva]pradeśe jyotīṃṣi ardhoditāni paśyati, paścāt ardhāstamitāni [paścati] | evam
bhūvyāsārdhena ūnam [golārdham] golasūtrāntarālasthitam dṛśyam | yat etat adṛśyam
golārdham golasūtrāntarālam tat bhūvyāsārdhādhikam | etat samāyām bhuvi | yaḥ
punar draṣṭā tuṃgaśailamastake bhavati tat
śailapramāṇādhikam tasya adṛśyam bhavati | vidyādhārādayaḥ viyati dūre sthitāḥ
prabhūtam jyotiścakram paśyanti, [yasmāt] upari dūrasthitasya nirvirodhaprasāraṇā
dṛṣṭiḥ bhavati | atidūre sthitaḥ brahmā sarvadā vivasvantam paśyati |

[bhūpr̥ṣṭhavyavasthitānām bhūvyāsārdhonabhapañjarārdhadarśinām svāt pramāṇāt
satatam divasaḥ hīyate, niśā vardhate | tadartham] trairāśikam ā yadi ravikakṣyāyām
ṣaṣṭiḥ nāḍyaḥ labhyante tadā bhūvyāsārdhayanaiḥ 525 kiyatyaḥ | labdhena
dviguṇena sarvadā hīnaḥ divasaḥ adhikā rātriḥ || 15 ||

[meruḇaḍavāmukhasthānām bhagolabhramaṇadarśanam]

meruḇaḍavāmukhanivāsinām darśanārtham āha ā

devāḥ paśyanti bhagolārdham udaṅ merusaṃsthitāḥ savyam |
ardham tu apasavyagatam dakṣiṇabaḍavāmukhe pretāḥ || 16 ||

[udaṅ merusthitāḥ devāḥ bhagolasya uttaram] ardham savyam pradakṣiṇagatim
paśyanti | dviṭīyam ardham dakṣiṇam jyotiścakrasya apasavyam apradakṣiṇagatim
baḍavāmukha[sthitāḥ] pretāḥ paśyanti | [sthalajalasangrahaḥ sthitvā etat ācāryaḥ
pratipādayati | tat apekṣayā hi meruḇaḍavāmukhayoḥ uttaradakṣiṇatvam | na
meruḇaḍavāmukhasthānām diṅniyamāḥ asti] sūryagatyapekṣayā prācyādivyavahāraḥ
| yatra vivasvān udeti sā prācī, [yatra astameti sā prācī]
| [na tathā meruḇaḍavāmukhasthānām api, paritaḥ sarvatra raveḥ
udayāstamayasambhavāt]

deśāntaravyavadhānāt anyathā bhacakrārdhadarśanam bhavati | kaścit puruṣaḥ
uttareṇa gataḥ deśāntaram eti tathātve dhruvam upari ārohitam paśyati, krameṇa
merum prāptasya upari dhruvaḥ bhavati | meroḥ uttareṇa dakṣiṇena dhruvaḥ
avalambate | etat uttarāyaḥśalākāgrasvastikam upari nidhāya
dakṣiṇāyaḥśalākāgrasvastikam ca adhomukham nidhāya darśayet | tathā laṅkāsthasya

yaḥ viṣuvat mārgapradeśaḥ pūrvāparaḥ pratibhāsate sa merusthānām kṣitijāsaktaḥ
| evam baḍavāmukhasthānām api cakravat bhāskaraḥ pratibhāsate || 16 ||

[devāsurapitṛnarāṇām dinapramāṇam]

merubaḍavāmukhasthāḥ kiyantam kālam ravim paśyanti iti āha ā

ravivarṣārdham devāḥ paśyanti uditam ravim tathā pretāḥ |
śaśimāsārdham pitarāḥ śaśigāḥ, kudinārdham iha manujāḥ || 17 ||

devāḥ merunivāsinaḥ meṣādiṣu ṣaṭsu rāśiṣu samudgatam sūryam ravivarṣārdham
paśyanti ṣaṇmāsān yāvat iti arthaḥ, pradakṣiṇam cakravat bhramantam kṣitijāsaktam
krameṇa caturviṃśatikrāntibhāgān yāvat parityaktakṣitijam paśyanti | evam pretāḥ api
ravivarṣārdham eva sakṛt udgatam sūryam paśyanti dakṣiṇagole ṣaṭsu rāśiṣu |

śaśimāsārdham pitarāḥ śaśigāḥ, śaśinam gacchanti iti śaśigāḥ, candralokanivāsinaḥ
pitarāḥ śaśinaḥ māsārdham pañcadaśatithayaḥ etāvantam kālam paśyanti | pitṛṇām
amāvāsyāyām upari savitā bhavati | [tat] teṣām aharmadhyam | tataḥ yathā yathā savitā
pratipadādiṣu parataḥ avalambate tathā tathā pitṛṇām madhyāhnottarabhāgaḥ,
rāśitrayāntaritaḥ astam eti, astamitaḥ pakṣeṇa rāśiṣadantaritaḥ prācyām udeti | ataḥ
teṣām pakṣaḥ ahaḥ, pakṣaḥ rātriḥ iti
| kudinārdham iha manujāḥ | kudinam bhūdinam ravyudayāt ravyudayam yāvat,
tadardham iha manujāḥ paśyanti | sarvam yathāvat sthitam gole pradarsāyet iti || 17 ||

[khagole kṣitijamaṇḍalam]

khagole kṣitijamaṇḍalapradarśanāya āha ā

pūrvāparam adhaūrdhvam maṇḍalam atha dakṣiṇottaram ca eva |
kṣitijam samapārśvastham bhānām yatra udayāstamayau || 18 ||

pūrvāparamaṇḍalam tat iha khagolapramāṇam | sa eva ūrdhvam uparyadhovagāhi
sarvabhapañjarāṇām | tathā dakṣiṇottaram anyat maṇḍalam tāvatpramāṇam,
dakṣiṇottarāvagāhi yāmya uttaramaṇḍalam upari adhaḥ ca janitasvastikam | kṣitijam
samapārśvastham tathā anyat maṇḍalam tāvat eva | samapārśvāvagāhi parikaravat
dikcatuṣṭayajanitasvastikam kṣitija iti ucyate | bhānām yatra udayāstamayau | yatra
maṇḍale bhānām udayāstamayau lakṣyete | harijam
iti kaiścit ucyate | ayam khagolaḥ sarvabhapañjarāṇām bahiḥ avatiṣṭhate || 18 ||

[unmaṇḍalam]

unmaṇḍalapradarśanāya āha ā

pūrvāparadiglagnam kṣitijāt akṣāgrayoḥ ca lagnam yat |
unmaṇḍalam bhavet tat kṣayavṛddhī yatra divasaniśoḥ || 19 ||

dakṣiṇottarakṣitijasvastikāt yāmya uttaramaṇḍale svadeśākṣabhāgatulye antare vedhe
kṛtvā lohaśalākāgre praveśya golam nidadhyāt | tataḥ unmaṇḍalam darśayet |
pūrvāparadiglagnam pūrvāparayoḥ diśoḥ lagnam | kṣitijāt akṣāgrayoḥ ca lagnam yat |
dakṣiṇottarakṣitijasvastikayoḥ upari adhaḥ svadeśākṣabhāgatulye antare lagnam
kārayet | tat unmaṇḍalam | udayamaṇḍalam unmaṇḍalam | yatra maṇḍale divasasya
rātreḥ ca kṣayavṛddhī lakṣyete |

viśuvati unmaṇḍalakṣitijayoḥ ekatvāt divasaniśoḥ kṣayavṛddhī na staḥ | viśuvataḥ

uttareṇa unmaṇḍalam upari kṣitijam adhaḥ avatiṣṭhate | tasmāt uttaragole aprāpte eva
unmaṇḍalam [savitā] caradalaghaṭikāpramāṇena udeti | paścāt unmaṇḍalam atikrāntaḥ
astam eti | ataḥ divasaḥ uttaragole vardhate | dakṣiṇagole unmaṇḍalam atikrāntaḥ
kṣitijāt udeti | aprāptaḥ eva astameti | ataḥ dakṣiṇagole rātriḥ upacīyate | ataḥ tattulyā
divasaniśoḥ kṣayavṛddhī | tadartham
trairāśīkam ā yadi ṣaṣṭyā grahabhuktiḥ labhyate, tadā caradalaghaṭikābhiḥ kiyatī iti |
labdham uttaragole ravau udaye viśodhayet | yāmye viparītam | evam uttaradiśi
vyavasthitānām krameṇa divasaniśoḥ mahatyau kṣayavṛddhī bhavataḥ | yatra deśe
raviḥ mithunāntasthaḥ na astam eti, ṣaṣṭiḥ nāḍyaḥ divasaḥ, tatra triṃśadghaṭikāḥ
caram, pañcadaśghaṭikāḥ carārdham | tasya kāṣṭhasya jyā carajyā | tayā
viparītakarmaṇā kṣitijyā ānīyate ā yadi vyāsārdhasya iyam [vyāsārdhatulyā]
carajyā tadā mithunāntasvāhorātrārdhasya kā iti mithunāntasvāhorātrārdhatulyā kṣitijyā
labhyate | tasyāḥ kṣitijyāyāḥ mithunāntāpakramajyāyāḥ ca vargayuteḥ mūlam arkāgrā
trijyātulyā | tena tatra deśe yāmya uttare kṣitijāt upari krameṇa [sama]maṇḍalam
avagāhya khamadhyāt dakṣiṇena dvicatvāriṃśadbhāge [yāmya uttaram atikramya]
tataḥ prathamodaye punar kṣitijam āpnoti ca eva | tatra ṣaṣṭiḥ nāḍyaḥ divasaḥ
upalakṣyate | svārkāgrataḥ [kṣitijyā | tadartham trairāśīkam]
ā arkāgrayā iṣṭatulyayā kṣitijyā labhyate vyāsārdhena kim iti | guṇakabhājakayoḥ
tulyatvāt naṣṭayoḥ kṣitijyāpramāṇā akṣajyā bhavati | tat katham? akṣaḥ ṣaṣṭiḥbhāgāḥ |
tatra deśe vyabhicārāt grahagatiḥ | uttareṇa tasmāt iyam vyavasthā na asti iti || 19 ||

[khagolāpekṣayā draṣṭuḥ sthitiḥ]

prācyādivyavasthāpratipādanāya āha ā

pūrvāparadigrekḥā adhaḥ ca ūrdhvā dakṣiṇottarasthā ca |
etāsām sampātaḥ draṣṭā yasmin bhavet deśe || 20 ||

pūrvāpararekhā, adhaḥ ca ūrdhvā ca yā rekhā, dakṣiṇottarasthā ca | ca[kārah] samuccaye | etāsām rekhāṇām sampātaḥ ekatra yogah, yasmin deśe draṣṭā tatra tatra tāsām sampātaḥ |

tasmāt draṣṭṛvaśāt digvyavasthā | yatra draṣṭā ravim udgacchan paśyati sā prācī, yatra [raviḥ] madhyāhnam karoti sā dakṣiṇā, yatra astam eti sā parā, yatra ardharātram karoti sā uttarā | sarveṣām uttaraḥ meruḥ | laṅkānivāsinām yadā madhyāhne raviḥ bhavati romakanivāsinām udeti | tatra laṅkāpradeśe teṣām prācī | tadapekṣayā svasthānāt uttaraḥ meruḥ pratibhāsate | yadā romake madhyāhnaḥ tadā siddhapuranivāsinām udayaḥ [tatra romakapradeśe teṣām prācī] | tadapekṣayā teṣām svasthānāt uttaraḥ meruḥ | evam yamakotyaṁ api |

bhūmau yāvattāvatpramāṇam vṛttam ālikhya pūrvāhṇe [aparāhṇe ca] chāyām lakṣayet | yatra pradeśe śaṅkucchāyā vṛttam praviśati sā paścimā | yatra niryāti sā prācī | tadagrayoḥ matsyam utpādya tanmukhapucchasprksūtram prasārayet | sā dakṣiṇottarā dig bhavati | athavā tricchāyāgramatsyadvayamukhapucchasprksūtradvayasampātaḥ uttarā dakṣiṇā ca | [athavā dik] prasādhanīyā citrāsvātyoḥ || 20 ||

[dṛṇmaṇḍalam dṛkkṣepamaṇḍalam ca]

[dṛṇmaṇḍaladrkkṣepamaṇḍalasvarūpam āha ā]

ūrdhvam adhastāt draṣṭuḥ jñeyam dṛṇmaṇḍalam grahābhimukham | dṛkkṣepamaṇḍalam api prāglagnam syāt trirāśyūnam || 21 ||

dṛṇmaṇḍalam [draṣṭuḥ ūrdhvam adhastāt] grahābhimukham [bhavati] | yatra draṣṭā

bhavati tatra asya madhyam, yatra grahaḥ tatra asya paridhiḥ, yāvān dr̥ggrahayoḥ
antaram tāvatā viṣkambhārdhena dr̥nmaṇḍalam pradṛśyam | tat eva madhyāhnasthite
grahe dr̥kkṣepamaṇḍalam bhavati | dr̥kkṣepamaṇḍalam api | samamaṇḍalamadhyāt
dakṣiṇena uttarena vā yatra grahābhimukham dr̥ṣṭeḥ kṣepaḥ tatra yaḥ
mahāpramāṇakakṣyaḥ grahaḥ sa stokataram kṣipyate,
alpapramāṇakakṣyaḥ bahutaram kṣipyate iti | etat madhyāhne
dr̥gjyāpramāṇavyāsārdhena samamaṇḍalamadhyāt badhnīyāt | asya ānayanopāyaḥ ā
prāglagnam syāt trirāśyūnam | parvakālaghaṭikāḥ pūrvāhṇe dinārdhāt śodhayet |
śeṣaprāṇān trairāśikānītaravibhuktalaṅkodayaprāṇaiḥ ūnīkuryāt | śeṣebhyaḥ yāvat
laṅkodayaprāṇāḥ śudhyanti tāvat śodhyāḥ | tāvantaḥ eva rāśayaḥ viśodhyante |
śeṣaprāṇān triṃśatā guṇayet, aśuddhalaṅkodayena vibhajet, labdham bhāgādi
pūrvaviśodhitaiḥ eva śodhayet | pūrvāhṇe madhyalagnam bhavati | aparāhṇe adhikatvāt
raveḥ yāvantaḥ laṅkodayāḥ viśudhyanti tāvantaḥ prakṣipyā lagnam kriyate | ācāryeṇa
sthūlaprakṛtyā iṣṭaghaṭikābhiḥ pūrvalagnam lagnavidhinā kṛtvā trirāśyūnam kriyate,
madhyalagnam bhavati iti | rāśayaḥ laṅkodayaiḥ madhyam avagāhante iti laṅkodayaiḥ
yat madhyalagnam tat sūkṣmam iti | tasya apakramakāṣṭham svadeśākṣabhāgayutam
samadiśoḥ bhinnadiśoḥ viśuddham
khamadhyaravikakṣyāntarālam bhavati | tasya jīvā madhyajyā iti ucyate | candrasya
apakramakāṣṭham vikṣepayutam viyutam kriyate | yataḥ vimaṇḍale candraḥ tataḥ
akṣabhāgayutaviyutasya jyā candramadhyajyā bhavati | anayā atra madhyajyā
vyākhyātā || 21 ||

[svayaṃvahagolayantram]

svayaṃvahagolayantrapratipādanāya āha ā

kāṣṭhamayam samavṛttam samantataḥ samagurum laghum golam |

pāratatailajalaiḥ tam bhramayet svadhiyā ca kālasamam || 22 ||

kāṣṭhaiḥ nirmitam kāṣṭhamayam śrīparṇyādibhiḥ pūrvavat | samavṛttam | sarveṣu
pradeśeṣu [samam], na hīnādhikam iti | samagurum | samantataḥ samā gurutā kāryā |
yadi atimātraguruḥ bhavati pāṣāṇavat niścalaḥ syāt, [mahatā kālena bhramati iti ataḥ]
samavṛttam samagurum | laghum atra api samaśabdaḥ prayoktavyaḥ | etat
guṇaviśiṣṭam golam katham bhramayet? pāratatailajalaiḥ iti | svadhiyā ca
svakīyaprajñayā ca tam bhramayet | kālasamam kālena
samam kālasamam | kālasamam ahorātrasamam yathā bhramati tathā bhramayet | tat
yathā ā ṣaṣṭiḥgṛhaṭikāṅkitasvāhorātramaṇḍale kanyātulāsandhipradeśe kīlakam īṣat
unnatam ekam kārayet | siddhapūrvāparadakṣiṇottarasthāne jalapātram ekam
sthāpayet | pātram ca samam vattam dīrgham [tala]madhyanihitasūkṣmacchidram
ghaṭikāṣaṣṭyā jalapūrṇam yathā riktam bhavati tathā svadhiyā prasādhyā tataḥ karma
kriyate | yāvat pātrāt udakam sravati tāvat guruvāt
alābuh jalavaśāt adhogacchan golam ākarṣati | evam sakṛt yuktaḥ golaḥ
paramārthabhagolavat ahorātre bhramati | prathamam tāmraḥlake pāśakasūtrasya
ekam agram badhvā golayantram adhastāt prabhṛti pariveṣṭya tatra eva pradeśe sūtram
prāpayet iti kramaḥ || 22 ||

[akṣakṣetram]

viṣuvat jyāpradeśapratipādanāya āha ā

dr̥ggolārdhakapāle jyārdhena vikalpayet bhagolārdham |
viṣujjivākṣabhujā tasyāḥ tu avalambakaḥ koṭiḥ || 23 ||

dr̥ggolārdham ghaṭakapālavat avasthitatvāt dr̥ggolārdhakapālam | bhagolārdham eva

kevalam dr̥śyate | yena vyavahāraḥ dr̥śyaḥ | bhagolārdham jātau ekavacanam |
jyārdhena vikalpayet | bhūmau vṛttam ālikhya pūrvāparadakṣiṇottaradikcihnitam kṛtvā
ekaikasmin caturthabhāge rāśitrayam aṅkayet | punar ekaikaḥ rāśiḥ aṣṭadhā vibhajet |
tatra sūtrāṇi prasārayitavyāni | tāni jyāsūtrāṇi | tadardhāni jyārdhāni | athavā anyāḥ
vikalpakraṃḥ | viṣuvajjivākṣabhujā
| samamaṇḍalasya viṣuvataḥ uttareṇa akṣatulyāntare avasthitatvāt akṣaḥ iti ucyate |
tasya akṣakāṣṭhasya bhujā, akṣajyā viṣuvajjyā iti paryāyāḥ | vyāsārdham karṇaḥ |
bhujākarṇakṛtviśeṣamūlam avalambakaḥ | sā koṭiḥ iti | etat gole pradarśayet |
samamaṇḍalamadhyāt dakṣiṇena ākṣajyātulye antare sūtrasya ekam agram badhvā
graham prāpayet | saḥ avalambakaḥ | bhujākoṭivargayogasya mūlam karṇaḥ
vyāsārdham iti | evam anyatra api dr̥ggolārdhe kalpitajyārdheṣu
bhujākoṭikarṇavyavasthā kalpanīyā || 23 ||

[svāhorātrārdhaviṣkambhaḥ]

apakramādibhiḥ bhujādikalpanām āha ā

iṣṭāpakramavargam vyāsārdhakṛteḥ viśodhya yat mūlam |
viṣuvadudagdakṣiṇataḥ tat ahorātrārdhaviṣkambhaḥ || 24 ||

sūryasya iṣṭāpakramajyāyāḥ candrasya iṣṭāpakramajyāyāḥ ca yaḥ vargaḥ sa
iṣṭāpakramavargaḥ | tam vyāsārdhakṛteḥ viśodhya [śeṣasya] yat mūlam tat viṣuvataḥ
uttareṇa dakṣiṇena vā ahorātrasya viṣkambhaḥ bhavati | krāntijyā bhujā | vyāsārdham
karṇaḥ | tayoh yat vargaviśeṣamūlam tat svāhorātrārdhaviṣkambhaḥ | pūrvavidhinā tat
uttaragole uttareṇa, dakṣiṇagole dakṣiṇena pradarśayet || 24 ||

[meṣādīnām laṅkodayāḥ]

laṅkodayaprāṇānayanam āha ā

iṣṭajyāguṇitam ahorātravyāsārdham eva kāṣṭhāntyam |
svāhorātrārdhahṛtam phalam ajāt laṅkodayaprāṅjyāḥ || 25 ||

iṣṭajyā iti meṣavṛṣamithunāntajyāḥ gṛhyante | etābhiḥ guṇitam ahorātravyāsārdham
svāhorātrārdhaviṣkambhaḥ iti arthaḥ | kāṣṭhasya antaḥ kāṣṭhāntaḥ, tatra bhavam
kāṣṭhāntyam | navatiḥ bhāgāḥ yasmin [kāṣṭhe tasya ante bhavam] yat svāhorātrārdham
tat eva [iṣṭa]jyābhiḥ guṇitam svāhorātrārdhahṛtam svakīyasvakīyāhorātrārdhahṛtam
phalam iṣṭalaṅkodayaprāṅjyāḥ | ajāt meṣāt prabhṛti kāṣṭham bhavati iti kāṣṭhīkriyate |
[mithunānta]prāṅjyākāṣṭhāt
vṛṣāntaprāṅjyākāṣṭham viśodhayet | śeṣam mithunasya laṅkodayaprāṅjyāḥ | [evam]
vṛṣāntaprāṅjyākāṣṭhāt [meṣāntaprāṅjyākāṣṭham viśodhayet | śeṣam vṛṣabhasya
laṅkodayaprāṅjyāḥ] | svarūpataḥ eva meṣa[laṅko]dayaprāṅjyāḥ bhavanti || 25 ||

[kṣitijyā]

dinaniśoḥ kṣayavṛddhipratipādanāya āha ā

iṣṭāpakramaguṇitām akṣajyām lambakena hṛtvā yā |
svāhorātre kṣitijā kṣayavṛddhijyā dinaniśoḥ sā || 26 ||

iṣṭāpakrameṇa guṇitām iṣṭāpakramaguṇitām | [iṣṭāpakramaguṇitām] akṣajyām
lambakena hṛtvā phalam svāhorātramaṇḍale kṣitijyā bhavati | tatra iṣṭāpakramajyā
koṭiḥ, kṣitijyā bhujā, tadvargayutimūlam karṇaḥ arkāgrā bhavati iti |
pūrvāparasvastikayoḥ arkāgrayoḥ sūtram badhvā bhujakoṭivāsanā pradarśyā |

kṣitijonmaṇḍalayoh antaram kṣitijā iti | tayā dinaniśoh kṣayavṛddhī | pūrvakṣitijāt
uparyadhovyavasthitonmaṇḍala[kṣitijayoh madhye jyā]vat sā
pradarśyate || 26 ||

[svadeśodayāḥ]

rāśyudayakālapratipādanāya āha ā

udayati hi cakrapādaḥ caradalahīnena divasapādena |
prathamāḥ antyaḥ ca atha anyau tatsahitena kramotkramaśaḥ || 27 ||

udayati darśanam yāti, ardhm upari cakrapādaḥ, trayāḥ rāśayaḥ | caradalahīnena
divasapādena iti anena laṅkodayāḥ trayāḥ parigrhyante | yataḥ tribhiḥ
meṣādilaṅkodayaiḥ pañcadaśaghaṭikāḥ tāḥ svāhorātracaturthaḥ aṃśaḥ, tataḥ krameṇa
vyavasthitalaṅkodayaprāṇebhyaḥ meṣādicaradalaprāṇān svadeśākṣoṭpannān svakīyān
viśodhayet | meṣādīnām svadeśodayāḥ bhavanti | antyaḥ cakrapādaḥ
mīnakumbhamakarāḥ | ete api caradalahīnena cakrapādena udayanti
| caradalaśahitena divasapādena | atra api divasapādagrahaṇena
karkaṭasimḥakanyāyāḥ utkrameṇa laṅkodayāḥ grhyante | tena karkaṭasimḥakanyāyāḥ
caraprāṇaiḥ utkrameṇa sahitāḥ udayanti | kramotkramaśaḥ iti | kramotkramagatyā
krameṇa caradalahīnāḥ meṣavṛṣamithunāḥ, utkrameṇa sahitāḥ karkaṭasimḥakanyāḥ |
ete eva utkrameṇa tulāvṛścikadhanūṃṣi | tataḥ makarakumbhamīnāḥ utkrameṇa
caradalahīnāḥ | meṣavṛṣamithunāḥ krameṇa apamaṇḍale tiryagvyavasthitāḥ,
tena meṣaḥ śīghram udeti ataḥ caradalāsubhiḥ apacīyate | evam vṛṣaḥ mithunaḥ ca |
etaiḥ makarādayaḥ vyākhyātāḥ | karkaṭasimḥakanyāḥ [tadbhinna]samsthānatvāt cireṇa
udgacchanti | ataḥ caradalaprāṇaiḥ upacīyante | etaiḥ tulādayaḥ vyākhyātāḥ |

kṣitijyā vyāsārdhaguṇā svāhorātrārdhahṛtā carajyā, tatkāṣṭham caradalaprāṇāḥ | pṛthak
meṣādīnām laṅkodayavat utpādyāḥ | svadeśarāśyudayaiḥ iṣṭakālagṇārtham
sūryodayāt prabhṛti ghaṭikāḥ prāṇīkṛtya sūryabhogyarāśyudayaprāṇāḥ tebhyaḥ
viśodhayet | sūrye bhogyāṃśam kṣepyam | punar yāvantaḥ rāśyudayāḥ śuddhyanti
tāvantaḥ viśodhya sūrye rāśayaḥ kṣipyante | śeṣam triṃśatā guṇitam
asuddhodayabhaktam bhāgādi vardhitaravau kṣipet | lagnam
bhavati | evam rātrau api rātrigataghaṭikāḥ dinamānaghaṭikāsu prakṣipyā lagnam anena
vidhinā kartavyam | rātriśeṣaghaṭikābhiḥ viparītakarmanā raveḥ gatabhāgādinā
tadutkrameṇa yāvantaḥ udayaprāṇāḥ viśuddheyuḥ tāvantaḥ śodhanīyāḥ] śeṣam
triṃśatā guṇitam vartamānodayabhaktam bhāgādi śodhitam udayalagnam |

atha raveḥ lagnasya ca antarakālasādhanam | raveḥ abhuktabhāgaiḥ abhyudayam
saṃguṇya triṃśatā bhajet | labdham raveḥ abhuktaprāṇāḥ | evam lagnabhuktabhāgaiḥ
tadudayam saṃguṇya triṃśatā vibhajet | labdham lagnabhuktaprāṇāḥ |
antaraprāṇayuktāḥ ṣaḍbhiḥ bhaktāḥ vighaṭikāḥ, ṣaṣṭyā ghaṭikāḥ, sūryodayāt ārabhya
bhavanti || 27 ||

[iṣṭakālaśaṅkuḥ]

[iṣṭakālaśaṅkvānayanārtham āha ā]

svāhorātreṣṭajyā kṣitijāt avalambakāhatām kṛtvā |
viṣkambhārdhavibhakte dinasya gataśeṣayoḥ śaṅkuḥ || 28 ||

[svāhorātre]ṣṭajyānayanam dinagataśeṣaghaṭikābhyaḥ | uttaragole kṣitija[m
unmaṇḍalā]t adhaḥ vyavasthitam ataḥ caradalaghaṭikāḥ [dinagataśeṣaghaṭikābhyaḥ]
viśodhya niṣpannāḥ unmaṇḍalāvadheḥ bhavanti | tāḥ prāṇīkṛtya jīvā grāhyā |

caradalajyayā saumyetaragolayoḥ yutaviyutā kṣitijāvadheḥ bhavati | [ataḥ trairāśīkam] ā
yadi vyāsārdhamaṇḍale iyam jyā bhavati svāhorātrārdhamaṇḍale kiyatī iti
kṣitijamaṇḍalāvadheḥ svāhorātreṣṭajyā abhidhīyate |
tām iṣṭajyām avalambakāhṛtām kṛtvā viṣkambhārdhena vyāsārdhena vibhajet |
divasasya pūrvāhṇe gatasya, aparāhṇe śeṣasya śaṅkuḥ bhavati |

candraśaṅkvānayanam | rātrau candracchāyā upalakṣayet | tatra pūrvakapāle
candramasaḥ iṣṭakālaghaṭikāḥ, aparakapāle tu candrāstalagnāntarālaghaṭikāḥ
candramasaḥ śeṣaghaṭikāḥ ānīya iṣṭakarma | candrasvāhorātrārdham kṣitijyām
caradalajyām ca ānīya caradalaviparyayaniṣpannaprāṇaiḥ sūryavat karma kartavyam |
atha svāhorātreṣṭajyā dvādaśaguṇā viṣuvatkarṇena bhaktā iṣṭaśaṅkuḥ bhavati | athavā
caradalena adhikonaghaṭikājyām
caradalajyāviparyayaniṣpannām, lambakaguṇitām svāhorātreṇa saṃguṇya
trijyāvargeṇa [vibhajya] śaṅkulabdhiḥ | athavā tām dvādaśaguṇasvāhorātreṇa
saṃguṇya viṣuvatkarṇaguṇavyāsārdhena bhajet | phalam śaṅkuḥ |

divasagataghaṭikānayane ca śaṅkunā guṇitam vyāsārdham
śaṅkucchāyāvargayutimūlena bhaktam bṛhacchaṅkuḥ bhavati | trijyāguṇitaḥ
lambakabhaktaḥ svāhorātreṣṭajyā labhyate | tena uttaragole kṣitijyā śodhyate, dakṣiṇe
kṣipyate | tataḥ vyāsārdhena hatvā svāhorātrārdhena bhajet | labdhasya kāṣṭham
uttaragole caradalayutam dakṣiṇe hīnam dinagataśeṣaprāṇāḥ [bhavanti | taiḥ] prāgvat
ghaṭikāḥ || 28 ||

[śaṅkvagram]

śaṅkvagrpradarśanāya āha ā

viṣuvajjivāguṇitaḥ sveṣṭaḥ śaṅkuḥ svalambakena hṛtaḥ |
astamayodayasūtrāt dakṣiṇataḥ sūryaśaṅkvagram || 29 ||

sveṣṭaśaṅkuḥ iṣṭakālotpannaśaṅkuḥ, viṣuvajjayā akṣajīvayā guṇitaḥ lambakena
bhaktaḥ astodayasūtrāt dakṣiṇataḥ sūryaśaṅkvagram bhavati | śaṅkoḥ agram
antarālam śaṅkumūlāt samottarāvagāhisūtram yāvat astamayodaya[sūtra]m iti |

kṣitijamaṇḍale prākṣvastikāt dakṣiṇam uttaram vā arkāgrākāṣṭhatulyāntare sūtrasya
ekam agram badhvā, dvitīyam agram tāvat [arkāgrākāṣṭhatulyāntare] eva aparabhāge
badhnīyāt | tat pūrvāparāyatam udayāstasūtram | tasya sūtrasya śaṅkūtalasya antare
śaṅkvagram | śaṅkumūlāt bhūmadhyam yāvat sūtram dṛggyā | bhūmadhyāt upari
śaṅkumastakaprāpi yat sūtram karṇaḥ vyāsārdham iti || 29 ||

[arkāgrā]

arkāgrānayanāya āha ā

paramāpakramajīvām iṣṭajyārdhāhatām tataḥ vibhajet |
jyā lambakena labdhārkāgrā pūrvāpare kṣitije || 30 ||

paramāpakramajyā caturviṃśatibhāgajyā 1397 | tām iṣṭasya raveḥ bhujajyayā guṇitām
[kṛtvā] lambakena vibhajet , [labdhā jyā] arkāgrā bhavati | iyati adhvani viṣuvataḥ
uttareṇa dakṣiṇena vā raviḥ udeti, pūrvāpare ca kṣitijamaṇḍalapradeśe || 30 ||

[samaśaṅkuḥ]

samamaṇḍalaśaṅkvānayanāya āha ā

sā viṣuvajjyonā cet viṣuvadudaglabakena saṅguṇitā |
viṣuvajjayā vibhaktā labdhaḥ pūrvāpare śaṅkuḥ || 31 ||

sā iti anena apakramajyā gr̥hyate | uttaragole viṣuvajjyātulyā krāntijyā [yadā] bhavati,
tadā madhyāhne eva savitā samamaṇḍalam viśati | viṣuvajjyā [yadā] krāntikāṣṭhajyayā
ūnā [tadā] samamaṇḍalāt uttarena yāti | [krāntikāṣṭhajyā yadā] viṣuvajjayā ūnā tadā
samamaṇḍalam viśati | [krāntikāṣṭhajyā] yadā ūnā viṣuvajjayā, tadā [pūrvānītā arkāgrā]
labakena guṇitā viṣuvajjayā bhaktā samamaṇḍalaśaṅkuḥ bhavati |
pūrvasamamaṇḍalena aparasamamaṇḍalena [ca] kṣitije arkāgrāntare
astamayodayasūtram badhvā arkākrāntarāśibhāgapradeśaḥ samapūrvāparamaṇḍale
yatra lagnam prāgbindutaḥ tat samamaṇḍalacāpam tathā gole bhramayet yathā
kṣitijādhibhāge samamaṇḍale tāvati antare lagnam bhavet | tayoḥ
samamaṇḍalabindvoḥ antare sūtram badhvā tadardham śaṅkuḥ pūrvavat eva
pūrvāpararekhāspr̥k bhavati | śaṅkoḥ uttarena astamayodayasūtram yāvat antaram
śaṅkvagram

arkāgrātulyam | samamaṇḍalaśaṅkuḥ akṣajyayā guṇitaḥ paramakrāntijyābhaktaḥ
sūryabhujayā bhavati | [sūrye meṣādige] tatkāṣṭham ādityaḥ, karkaṭakādige
ṣaḍrāśiviśuddham, tulādige ṣaḍrāśiyutam, makarādige cakraviśuddham raviḥ bhavati |

chedyake api ā samāyām bhūmau vṛttam ālikhya dikcihnitam kṛtvā sūryabimbodaye
aste ca pūrvāparayoḥ bindū kṛtvā pūrvāpararekhāyāḥ dakṣiṇe [madhyāhnanatajyātulye
antare] ṛtīyam bindum prakalpya bindutrāyāvagāhi matsyadvayena vṛttam ālikhet | tat
arkabhramavṛttam | arkāgrāgre savitā uditaḥ tadvṛttānusāreṇa samamaṇḍalam
avagāhya dakṣiṇena natajyātulye antare madhyāhnam kṛtvā krameṇa aparabhāge
samamaṇḍalāt niṣkrāntaḥ aparāgrāgre

astam eti | arkabhramavṛttasya prāgapararekhāyāḥ yatra sampātaḥ tatra samamaṇḍale

praveśaḥ | samamaṇḍale tu madhyam yāvat antaram samamaṇḍalaśaṅkucchāyā
bhavati | dakṣiṇagole samamaṇḍalāt dakṣiṇena yāti | [tadā] samamaṇḍalasya
praveśābhāvaḥ || 31 ||

[madhyāhnaśaṅkuḥ]

madhyāhnaśaṅkucchāyayoḥ ānayanāya āha ā

kṣitijāt unnatabhāgānām yā jyā sā paraḥ bhavet śaṅkuḥ |
madhyāt natabhāgajyā chāyā śaṅkoḥ tu tasya eva || 32 ||

kṣitijāt iti samadakṣiṇottarasvastikapradeśāt ye unnatabhāgāḥ golamadhyasthite ravau
lakṣitāḥ teṣām yā jyā sā paramaḥ śaṅkuḥ bhavati | yā madhyāt natabhāgajyā sā
paramaśaṅkoḥ chāyā syāt | iṣṭamadhyāhne raveḥ apakramabhāgāḥ akṣabhāgeṣu
dakṣiṇagole prayojayet | uttare gole viyojayet | te natabhāgāḥ bhavanti | candrasya
vikṣepayutaviyutāḥ natabhāgāḥ bhavanti, yataḥ vimaṇḍale candraḥ | ete navateḥ
viśodhyante | śeṣam unnatabhāgāḥ | teṣām [jyā]
unnatabhāgajyā | athavā taddinasvāhorātrārdham kṣitijayā svayā udagyāmye
viyutayutaḥ[vyāsārdhaguṇam svāhorātrārdhabhaktam] dvādaśaguṇam
viśuvatkarṇahr̥tam mahāśaṅkuḥ tadunnatajyā bhavati || 32 ||

[dr̥kkṣepajyā]

dr̥kkṣepapratipādanāya āha ā

madhyajyodayajīvāsaṃvarge vyāsadalahr̥te yat syāt |
tat madhyajyākṛtyoḥ viśeṣamūlam svadr̥kkṣepaḥ || 33 ||

madhyajyā ca udayajīvā ca madhyodayajīve | tayoh samvargaḥ parasparaguṇanam
vyāsadalahr̥tam yat bhavati tasya madhyajyāyāḥ ca kṛtyoh viśeṣamūlam svakīyaḥ
dr̥kkṣepaḥ | svagrahaṇena tu ravicandrakakṣyayoh bhinnaḥ dr̥kkṣepaḥ || 33 ||

[dr̥ggatijyā]

dr̥ggatijyānayanāya āha ā

dr̥gdr̥kkṣepakṛtiviśeṣitasya mūlam svadr̥ggatiḥ kuvaśāt |
kṣitije svā dr̥kchāyā bhūvyāsārdham nabhomadhyāt || 34 ||

dr̥gjyādr̥kkṣepakṛtyoh vivarasya mūlam svakīyā dr̥ggatiḥ bhavati | kuvaśāt bhūvaśāt
iyam bhavati | madhyajyodayajīvayoh samvarge vyāsadalahr̥te yat tat madhyajyākṛtyoh
viśeṣāt mūlam dr̥kkṣepaḥ hi bhavati | evam bhūvaśāt utpannatrijyāśaṅkuvargaviśeṣāt
mūlam dr̥gjyā bhavati | ataḥ bhūvaśāt utpanna[dr̥gjyā]dr̥kkṣepaniṣpannatvāt kuvaśāt iti
ucyate | "kṣitije svā dr̥kchāyā" iti atra tu "svā" iti anena svakīyadr̥kkṣepadr̥ggatī
abhidhīyete | bhūvyāsārdham 525

| kṣitijamaṇḍale svā dr̥kchāyā kasmāt utpannā? nabhomadhyāt | vyāsārdha[tulya]m etat
bhavati | tat yataḥ kudr̥ṣṭivaśāt samamaṇḍalamadhyāt pūrvāparayoh diśoh dr̥ggatiḥ
[lambanam] ṛṇam dhanam vā iti, tathā eva bhagolamadhyāt dakṣiṇottaradiśoh
dr̥kkṣepasya grahaṇena natiḥ vā syāt |

jyānām viśeṣotpattim darśayati | [bhūmeḥ golākāratvāt] bhūvyāsārdha[tulya]m antaram
kṣitije sūryakakṣyāyām candrakakṣyāyām ca [bhavati] | sūryakakṣyotpannamadhyajyām
sūryakakṣyodayajyayā samguṇya trijyayā bhāgalabdhasya vargam madhyajyāvargāt
viśodhya mūlam ravikakṣyāyām dr̥kkṣepaḥ, tathā candrakakṣyotpannamadhyajyām

svodayajyayā saṃguṇya trijyā bhāgalabdhasya vargam svamadhyajyāvargāt
viśodhya mūlam candrakakṣyāyām dṛkkṣepaḥ
| sūryasvāhorātrādibhiḥ sādhitadṛggyāvargāt sūryadṛkkṣepavargam viśodhya mūlam
sūryakakṣyāyām dṛggatijyā | candrasvāhorātrādibhiḥ sādhitadṛggyāvargāt
candradṛkkṣepavargam viśodhya mūlam candrakakṣyāyām dṛggatijyā bhavati | evam
anyeṣām api grahāṇām samamaṇḍalamadhyāt dṛggateḥ bhāvaḥ | udaye
[sūrya]grahaṇe candrasya tāvadadhaḥsthitatvāt candrakakṣyāyām
sūryabimbakendrasūtrāt pūrveṇa candrabimbam natam lakṣyate | astamaye tu tathā
eva
aparataḥ | samabhūpradeśe sthitasya draṣṭuḥ vyāsārdhatulyayā dṛggatijyayā
bhūvyāsārdhatulyam dṛggatyantaram [= lambanam] | evam eva dakṣiṇottarakapālayoḥ
dṛkkṣepāntaram [= natih] | [tatra idam trairāśikam] ā yadi vyāsārdhatulyayā dṛggatijyayā
bhūvyāsārdhayanatulyam dṛggatyantaram [=lambanam] tadā
iṣṭakālotpannadṛggatijyayā kiyat iti | [punar ca trairāśikam ā yadi] sphuṭayojanakarṇeṇa
trijyātulyāḥ kalāḥ labhyante, tadā dṛggati[= lambana]yojanaiḥ kiyatyāḥ
iti | atra prathame trairāśike trijyā bhāgahāraḥ dvitīye guṇakāraḥ tulyatvāt [nāśe kṛte]
ravicandrayoḥ dṛggateḥ bhūvyāsārdham guṇakāraḥ sphuṭayojanakarṇaḥ bhāgahāraḥ,
phalam liptāḥ | sūryaliptāḥ candraliptābhyaḥ viśodhya trairāśikam ā yadi
[dinasphuṭa]bhuktyantareṇa ṣaṣṭiḥ nāḍyaḥ [labhyante, tadā] ābhiḥ liptābhiḥ kiyatyāḥ iti |
labdham nāḍyaḥ bhavanti, tāḥ dṛggati[=lambana]ghaṭikāḥ | pūrvakapāle pūrvataḥ
grahaḥ kakṣyāyām nataḥ | tasmāt prāgyogaḥ ataḥ
grahe apanīyante | aparakapāle parataḥ natatvāt lambanaghaṭikātulyakālena yogaḥ
bhaviṣyati iti ataḥ prakṣipyante | evam etat karma tāvat kriyate yāvat aviśeṣaḥ |
evam [ravicandrayoḥ] dṛkkṣepaliptāḥ prāgvat trairāśikena jñātāḥ | yadi ravicandrayoḥ
madhya[jye] samadiksthe bhavataḥ tadā [ravicandrayoḥ] natiliptānām viśeṣaḥ anyathā
yogaḥ | tataḥ avanatiḥ bhavati | tataḥ madhyagrahaṇacandrāt pātam viśodhya śeṣasya

dakṣiṇottarabhujayā ardhapañcamena guṇitā trijyābhaktā vikṣepaḥ | avanativikṣepayoḥ
samadiśi yogaḥ, bhinnadiśi viyogaḥ [sphuṭavikṣepaḥ] | sphuṭavikṣepaḥ avanatiḥ iti
paryāyaḥ | tayā ca avanatyā sthityardham
ānīya madhyatitheḥ viśodhya śeṣaḥ sparśakālaḥ | tena prāgvat lambanavidhiḥ |
sparśamadhyalambanaghaṭikāntareṇa sthityardham upacīyate | tat punar madhyakālāt
viśodhya asakṛt sthityardham utpādayet yāvat sthiram bhavati | mokṣe punar
prathamānīstahityardham madhyatithau prakṣipet | pūrvavat
mokṣalambanamadhyalambanaghaṭikāntareṇa sthityardham upacīyate | tat punar
madhyatithau prakṣipyā pūrvavat lambanaghaṭikāḥ utpādya tanmadhyalambanāntareṇa
sthityardham upacitam kṛtvā tat eva karma punar kriyate yāvat sthiram bhavati | evam
sthirīkṛtasthityardhasambandhinam sūryendugatikalābhogam
madhyagrahaṇasūryendoḥ sparśe viśodhayet mokṣe kṣipet | sparśamokṣakālikau
bhavataḥ |

atha prāgaparakapāladvaye api lambanayoḥ tayoh yogena yutam sthityardham
sphuṭam bhavati |

samāyāmanau [vyāsārdhapramāṇena sūtreṇa] vṛttam ālikhya dikcihnitam kṛtvā
maṇḍalapūrvabhāge prāgapararekhāyāḥ uttareṇa dakṣiṇena vā udayajyākāṣṭhatulye
antare bindū kṛtvā bindudvayaśirasprksūtram prasārya rekhā kuryāt udayajyā bhavati |
[punar] madhyam maṇḍalakendram kṛtvā madhyajyātulyasūtreṇa vṛttam bhrāmayet | tat
madhyajyāmaṇḍalam | trijyāmaṇḍalaparidhibindudvayāt sūtradvayam madhyakendram
ānīya rekhādvayam kuryāt
| tat antarajyārdham madhyajyāmaṇḍale tathā eva pūrvāparataḥ uttareṇa dakṣiṇena vā
vyavasthāpyate | tat madhyajyāvargaviśeṣamūlam drkkṣepajyākoṭiḥ
madhyajyāmaṇḍale bhavati |

[trijyāmaṇḍale pūrvāparayoḥ udayajyākāṣṭhatulye antare] bindū kṛtvā [vṛttakendrāt
madhyāhna]natajyātulye antare dṛkkṣepabinduḥ dakṣiṇena [prakalpya] bindutrayera
matsyam utpādyā tanmukhapucchasprksūtrasampātāt bindutrayasprgvṛttam bhramayet
| tat arkabhramavṛttam | tatra kṣitijāt ūrdhvam yatra pradeśe raviḥ
tanmadhyakendrāntarālasūtram drgjyā karṇaḥ, sthānīyā dṛkkṣepajyā koṭiḥ, tadagrāt
ārabhya drgjyāgram yāvat ravicihnopalakṣitam tadantarālam
dṛggatijyā sā pūrvāparā | evam viśiṣṭam tryaśram kṣetram niṣpādyate || 34 ||

[akṣadrkkarma]

udayāstamayayoḥ vikṣepavaśāt ṛṇadhanatvapratipādanāya āha ā

vikṣepaguṇā akṣajyā lambakabhaktā bhavet ṛṇam udaksthe |
udaye dhanam astamaye dakṣiṇage dhanam ṛṇam candre || 35 ||

akṣajyā vikṣepaguṇā lambakabhaktā phalam liptāḥ | uttaravikṣepe udayasthitacandre
ṛṇam, astamaye dhanam | yāmye vikṣepe udayasthe candre dhanam, astamaye ṛṇam
iti | ṛṇadhanayuktī ravicaradalaphalopapattitulyā || 35 ||

[ayanadrkkarma]

ayanavaśāt ṛṇadhanatvapratipādanāya āha ā

vikṣepāpakramaguṇam utkramaṇam vistarārdhakṛtibhaktam |
udagrṇadhanam udagayane dakṣiṇage dhanam ṛṇam yāmye || 36 ||

vikṣepaḥ ca apakramaḥ ca vikṣepāpakramau | [vikṣepāpakramau guṇau yasya tat

vikṣepāpakramaguṇam | vikṣepaḥ tātkālikaḥ gr̥hyate, apakramaḥ ca paramāpakramaḥ |
utkramaṇam utkramajyām || vikṣepeṇa paramāpakrameṇa guṇitām
rāśitrayayutacandrasya utkramajīvām iti arthaḥ | katham rāśitrayayutacandrasya tat
utkramaṇam? utkramaṇagrahaṇāt rāśitrayakṣepaḥ avagamyate |
[rāśitrayayutacandrasya] utkramajyām guṇayet | vyāsārdhakṛtyā bhajet | phalam
liptāḥ udagvikṣipte uttarāyaṇe ṛṇam dakṣiṇe dhanam | tat eva phalam dakṣiṇe ayane
uttaravikṣipte dhanam, ṛṇam yāmye, vikṣepe dakṣiṇe ṛṇam bhavet iti | ṛṇe dhane yuktiḥ
api | yasmāt tulyadigvikṣepāyanayoḥ grahaḥ tāvat adhikaḥ prāpyate,
udayāstamayakṣitijayoḥ viśodhyate; bhinnāyanavikṣepayoḥ tāvat hīnaḥ iti kṣipyate |
sarvagrahāṇām svodayāstamayayoḥ idam karma pravartate | na
madhyāhnārdharātrayoḥ || 36 ||

[candrādisvarūpam grahaṇakāraṇam ca]

candrādisvarūpavyāvarṇanāya āha ā

candraḥ jalam arkaḥ agniḥ mṛdbhūccāyā api yā tamaḥ tat hi |
chādayati śaśī sūryam, śaśīnam mahatī ca bhūccāyā || 37 ||

yat etat candramaṇḍalam tat pratyakṣeṇa jalam, vivasvān uṣṇasvabhāvāt agniḥ, bhūḥ
pṛthivī mṛṇmayī, bhūccāyā tamaḥ svabhāvāt iti | śaśī candraḥ sūryam chādayati |
uparisthitaḥ sūryaḥ adhaḥsthitena candramasā chādyate | mahatī ca bhūccāyā
śaśīnam chādayati | grāhakabhedaḥ ca anayoḥ asti, yataḥ kucchāyā viśālā nyūnaḥ
śaśī, śaśī nyūnaḥ viśālaḥ dinakṛt || 37 ||

[grahaṇamadhyakālaḥ]

kadā grahaṇe bhavataḥ, tatpratipādanāya āha ā

sphuṭaśāśimāsānte arkam pātāsannaḥ yadā praviśati induḥ |

bhūcchāyām pakṣānte tadā adhikonam grahaṇamadhyam || 38 ||

sphuṭaḥ śāśimāsaḥ sphuṭaśāśimāsaḥ, tasya ante parisamāptau amāvāsyāyām arkam

ādityam, pātāsannaḥ vikṣepamārgagatyā pātāsannaḥ, yadā praviśati induḥ yadā

arkagrahaṇam bhavati | [pakṣānte paurṇamāsyante pātāsannaḥ induḥ yadā]

bhūcchāyām praviśati | tadā adhikam ūnam vā grahaṇamadhyam bhavati | yataḥ

pūrvakapāle grahaṇamadhyam adhikam bhavati sphuṭatithicchedajanitam tena tatra

lambanaghaṭikāḥ viśodhyāḥ tāvatā kālena atītatvāt

grahaṇamadhyasya | aparakapāle grahaṇamadhyam ūnam bhavati

sphuṭatithicchedajanitam tena tatra lambanaghaṭikāḥ kṣipyante, bhāvitvāt

grahaṇamadhyasya || 38 ||

[bhūcchāyādairghyam]

bhūcchāyāpramāṇam āha ā

bhūravivivaram vibhajeṭ bhūguṇitam tu ravibhūviśeṣeṇa |

bhūcchāyādīrghatvam labdham bhūgolaviṣkambhāt || 39 ||

bhuvaḥ raveḥ ca antaram bhūravivivaram, raviyojanakarṇaḥ 459585, bhūguṇitam

bhūvyāsena 1050 guṇitam, ravibhuvoh viśeṣeṇa ravibhuvoh vyāsayoh 4410, 1050,

antareṇa 3360 vibhajeṭ | tat bhūgolacchāyādīrghatvam bhavati 143620

bhūgolaviṣkambhāt prabhṛti |

atra idam pradīpacchāyākarma | ravivyāsaḥ pradīpaḥ bhujā, bhūvyāsaḥ śaṅkuḥ,
ravibhūvyāsayoḥ antaram ravibhūvyāsaviśeṣaḥ, raviyojanakarṇaḥ
śaṅkupradīpacchāyayoḥ antaram iti pradīpacchāyākarmasūtranibandhanam |

upapattiḥ pradīpacchāyākarmaṇā eva | ravibhūgolavṛttapārśvayoḥ sūtradvayam tathā
sūryabhūvyāsasūtradvayam ekatra badhnīyāt | bhūcchāyā krameṇa apacīyamānā
bhūviṣkambhāt lakṣyate || 39 ||

[tamasāḥ viṣkambham]

candrakakṣyāyām bhūcchāyānayanāya āha ā

chāyāgracandravivaram bhūviṣkambheṇa tat samabhyastam |
bhūcchāyayā vibhaktam vidyāt tamasāḥ svaviṣkambham || 40 ||

bhūcchāyāgrāt ārabhya candram yāvat antaram chāyāgracandravivaram |
bhūcchāyādairghyam 143620 candrakarṇena 34377 anena hīnam 109243
chāyāgracandravivaram jātam, bhūviṣkambheṇa 1050 guṇitam bhūcchāyādairghyeṇa
143620 vibhaktam labdham tamasāḥ viṣkambhaḥ 689 svagrahaṇe candrakakṣyāyām
bhūcchāyāviṣkambhaḥ bhavati |

yadi candrayojanakarṇena vyāsārdham 3439 labhyate tadā tamoviṣkambhārdhena kiyat
iti labdham [tamoviṣkambhārdha]liptāpramāṇam 800 | 19 || evam
svakīyasphuṭayojanakarṇābhyām ravicandrayoḥ vyāsaliptānayanam | ravivyāsaḥ 4410
vyāsārdha 3438 guṇitaḥ raviyojanakarṇa 457585 bhaktaḥ ravibimbakalāḥ 33 | 00 ||
candravyāsaḥ 315 vyāsārdha 3438 guṇitaḥ candrayojanakarṇa 34377 hṛtaḥ
candrabimbakalāḥ 31 | 10 || 40 ||

[sthityardhānayanam]

sthityardhapratipādanāya āha ā

tacchaśisamparkārdhakṛteḥ śaśivikṣepavargitam śodhyam |

sthityardham asya mūlam jñeyam candrārkadinabhogāt || 41 ||

chādyachādakayoḥ samparkārdham mānaikyārdham iti arthaḥ | tasya kṛtiḥ

tacchaśisamparkārdhakṛtiḥ | tasyāḥ śaśinaḥ vikṣepavargitam śodhyam | grahaṇadvaye

api candrāt vikṣepaḥ iti | ravigrahaṇe avanatiyutaviyutaḥ sphuṭavikṣepaḥ gr̥hyate | tasya

mūlam sthityardham bhavati | katham? candrārkadinabhogāt |

candrārkadinabhogaśabdena candrārkadinabhuktiḥ gr̥hyate | tayoḥ anulomagatikayoḥ

dinagatyantareṇa trairāśikam karma ā yadi raviśaśigativiśeṣeṇa

ṣaṣṭiḥ nāḍyaḥ labhyante, [tadā] sthityardhaliptābhiḥ kiyatyaḥ iti sthityardhaghaṭikāḥ

labhyante || 41 ||

[vimardārdhānayanam]

evam vimardārdham āneyam | katham?

candravyāsārdhonasya vargitam yat tamomayārdhasya |

vikṣepakṛtivyāhānam tasmāt mūlam vimardārdham || 42 ||

iti etasmāt | [sthityardham] titheḥ sparśe śodhyam mokṣe deyam, ravicandrapātāḥ api

sparsāmokṣakālikāḥ sthityardhaghaṭikābhiḥ kṛtvā punar sparsāmokṣayoḥ vikṣepau,

tābhyām sthityardhe ubhe yāvat aviśeṣam |

gaṇitakarmanā upapattiḥ dṛśyate | grāhyabimbamānārdhena vṛttam ālikhet | tat
grāhyabimbam | tataḥ mānaikyārdhatulyena karkaṭakena tena eva kendreṇa aparam
vṛttam ālikhet | tat grāhyagrāhakasamparkārdhamaṇḍalam | tataḥ
dakṣiṇottararekhāyām yathādiśam kendrāt uttareṇa dakṣiṇena vā vikṣepatulyam sūtram
prasārya bindum kuryāt | tanmatsyavidhinā pūrvā[parām rekhām kuryāt |
tatsamparkārdhamaṇḍalasampātāt kendraḥpīṇīm rekhām nayet
| evam ardhāyatacaturasram kṣetram utpadyate | tatra samparkārdham karṇaḥ,
vikṣepaḥ ca bhujā | tadvargaviśeṣamūlam koṭiḥ sthityardham iti | yadā
grāhyabimbārdhonagrāhakabimbārdhatulyam grāhyagrāhakayoḥ kendrāntarālam, tadā
grāhyagrāhakabimbārdhaviśeṣaḥ karṇaḥ, vikṣepaḥ eva bhujā | tadvargaviśeṣamūlam
koṭiḥ vimardārdham iti || 42 ||

[candrasya agrastamānam]

grastāśeṣapramāṇānayanāya āha ā

tamaśaḥ viṣkambhārdham śaśiviṣkambhārdhavarjitam apohya |
vikṣepāt yat śeṣam na grhyate tat śaśāṅkasya || 43 ||

śaśiviṣkambhārdhavarjitam tamaśaḥ viṣkambhārdham candravikṣepāt apohya | yat
śeṣam tat candrasya na chādyate | grahaṇamadhye uttareṇa dakṣiṇena vā yāvat eva
vikṣepaḥ, tadā tāvat eva tayoh kendrāntarālam bhavati | yadā punar vikṣepaḥ, tasmāt
śaśitamamaśaḥ viṣkambhārdhaviśeṣāt adhikaḥ bhavati, tadā tāvatpramāṇam eva
bimbakendrāntarālasya dvitīya pārśvataḥ candrabimbam tamomadhyāt niṣkrāntam
lakṣyate | yāvān bhāgaḥ candrasya na grhyate
tam candrabimbāt viśodhya śeṣam grāsapramāṇam syāt | candravat arke api || 43 ||

[iṣṭakālikagrāsaḥ]

iṣṭakālagrāsapratipādanāya āha ā

vikṣepavargasahitāt sthitimadhyāt iṣṭavarjitāt mūlam |
samparkārdhāt śodhyam śeṣaḥ tātkālikaḥ grāsaḥ || 44 ||

vikṣepavargaḥ tena sahitāt, sthitiḥ sparśāt ārabhya yāvanmokṣaḥ, tasya madhyam
sthityardham, iṣṭakālavarjitam iṣṭavarjitam, tasmāt | yat mūlam [tat] samparkārdhāt
śodhyam mānaikyārdhāt viśodhyam | śeṣaḥ tātkālikaḥ grāsaḥ bhavati |

sthityardham iṣṭakālahīnam bhuktyantaraguṇam ṣaṣṭihṛtam liptāḥ | vargaḥ tāvataḥ
vikṣepasya liptātmakasya varge yuktvā mūlīkriyate, mūlam karṇaḥ | [tāvatkarṇam
mānaikyārdhāt viśodhya śeṣaḥ tātkālikaḥ grāsaḥ bhavati] tāvatā karṇena praviṣṭaḥ
grāhakaḥ || 44 ||

[akṣavalanam ayanavalanam ca]

valanajyāpratipādanāya āha ā

madhyāhnotkramaguṇitaḥ akṣaḥ dakṣiṇataḥ ardhavistarahrtaḥ dik |
sthityardhāt ca arkendvoḥ trirāśisahitāyanāt sparśe || 45 ||

madhyāhnāt prabhṛti utkramaḥ madhyāhnotkramaḥ | madhyāhnatithyantarālaghaṭikā
madhyāhnaśabdena ucyate | tatra prākkapāle tithighaṭikā dinārdhāt viśodhyā,
aparapakāle tebhyaḥ dinārdham | madhyāhne iti upalakṣaṇam | tathā ca indugrahaṇe

madhyarātrīthyantarālaghaṭīkāḥ gṛhyante | tāḥ ṣaḍguṇāḥ bhāgāḥ teṣām utkramajyā,
tayā akṣajyā dakṣiṇataḥ vyavasthitā guṇanīyā, ardhavistareṇa vyāsārdhena bhaktā dik
bhavati | dakṣiṇataḥ iti aparakapālam

adhikṛtya utktam ācāryeṇa, yataḥ aparakapāle pūrvabhāgaḥ dakṣiṇena valati,
aparabhāgaḥ uttareṇa; prākkapāle punar pūrvabhāgaḥ uttareṇa, aparabhāgaḥ
dakṣiṇena valati | evam bimbasya pūrvāparabhāgaḥ uttareṇa dakṣiṇena valati, yataḥ
dikśabdena valanam ucyate | yatra candraḥ bhūcchāyāyām praviśati tatra candrabimbe
khaṇḍyamāne tadvalanam prākkapāle candrabimbapūrvabhāge uttareṇa avatiṣṭhate,
aparabhāge dakṣiṇena | aparakapāle viparītam |

vikṣepaḥ ravigrahaṇe yathādiśam eva bhavati | yadā punar bhūcchāyā grāhakatvena
kalpitā tadā vikṣepasya digviparyayaḥ |

sthiteḥ ardham sthityardham, vikṣepaḥ | yataḥ sthiteḥ ardham vikṣepavaśāt bhavati,
tena sthityardhaśabdena vikṣepaḥ ucyate | tasmāt vikṣepavaśāt dviṭīyavalanānayanam
ā arkendvoḥ iti | arkaḥ ca induḥ ca arkendū, tayoh arkendvoḥ trirāśīśahitayoh yat
ayanam | ayanaśabdena krāntiḥ, trirāśīśabdena jyā utkrameṇa grāhyā | trirāśīśahitau
yadā ravicandrau cakrārdhāt ūnau bhavataḥ tadā [pūrvakapāle] uttaram digvalanam |
cankrārdhāt adhikau tadā [pūrvakapāle]

dakṣiṇam digvalanam | utkramajyā parakrāntiguṇā trijyāhṛtā krāntivalanajyā |
tadbimbapūrvabhāge uttareṇa uttaram, dakṣiṇena dakṣiṇam | aparakapāle tu
[vyatyayena] dikśāadhanam kartavyam |

samamaṇḍalamadhyāt dakṣiṇena akṣatulye antare pūrvāparāyatamaṇḍalasya
[nāḍīmaṇḍalasya] yat antaram tat akṣavalanam | tat madhyāt utkrameṇa upacīyate |
etat ānayanam ā samamaṇḍalamadhyāt natasya utkramajyayā kartavyam |
pūrvakapāle karṇagatyā bimbapūrvabhāgaḥ uttareṇa pratibhāsate, aparabhāgaḥ

dakṣiṇena | parakapāle bimbapūrvabhāgaḥ dakṣiṇena aparabhāgaḥ uttareṇa | iti gole
pradarśayet | ayanavalanam tu uttaradakṣiṇāyanādau bhinnatvena
pratibhāsate, meṣādau uttaram, tulādau dakṣiṇam | evam akṣavalanatrayeṇa
parilekhaḥ kriyate |

prathamam samabhūmau grāhyamaṇḍalam likhet | tat kendrāt eva
samparkārdhamaṇḍalam [vyāsārdhamaṇḍalam ca likhet] | vyāsārdham iṣṭacchedena
chinnam kartavyam | [vyāsārdhamaṇḍalam] pūrvāparadakṣiṇottaradigaṅkitam [kāryam]
| akṣāyanavalane kāṣṭīkr̥tya tulyadigyogaḥ bhinnadigviśeṣaḥ [ca kāryaḥ] |
vyāsārdhamaṇḍale dakṣiṇena uttareṇa vā apamaṇḍalagatyā [paścimabhāge] valanam
vidhāya bindum kuryāt | tataḥ kendraṇḍapī sūtram nayet | tasya
sūtrasya mānaikyārdhaparidheḥ yatra sampātaḥ tasmāt uttareṇa dakṣiṇena vikṣepam
ca apagatyā paridhyanusāreṇa nītvā agre bindum kuryāt | tasmāt bindoḥ kendraṇḍapī
sūtram nayet | yatra grāhyabimbam spr̥ṣati tatra raveḥ aparabhāge sparśaḥ, candrasya
bimbe pūrvabhāge sparśaḥ | [grāhakabimbakendraḥ tu] samparkārdhamaṇḍale bhavati
| ravigrahaṇe sparśavalanam digvaśena mānaikyārdhaparidhau pūrvavat | tadagrāt
vikṣepam yathādiśam, candragrahaṇe viparītam
prasārayet | tadagrāt kendraṇḍapī sūtram nayet | yatra grāhyaparidhim spr̥ṣati tatra
sparśaḥ | mokṣavalanam ravigrahaṇe pūrvabhāge, candragrahaṇe aparabhāge
vyastam prasāryate | tataḥ mokṣavikṣepam yathādiśam savituḥ, candrasya viparītam
prasārya bindum kuryāt | tadagrāt kendraṇḍapīsūtram nayet | yatra grāhyaparidhim
spr̥ṣati tatra mokṣaḥ |

madhyagrahaṇe madhyagrahaṇavalanam vikṣepavaśāt | samparkārdhamaṇḍale
dakṣiṇavikṣepe uttaram valanam pūrveṇa, dakṣiṇam pareṇa; uttare vikṣepe, uttaram
valanam pareṇa, dakṣiṇam pūrveṇa prasārayet | [ravigrahaṇe viparītam kāryam]
tadagrāt yāmya uttararekhā kāryā | tanmānaikyārdhavr̥ttasampātāt kendraṇḍapī sūtram

nītvā rekhām kuryāt | rekhānusāreṇa kendramadhyāt savituḥ yathādīśam, candrasya
viparītam, vikṣepam prasārya tadagre
bindum kuryāt | tasmāt grāhakabimbavyāsārdhena [grāhyabimbam] khaṇḍayet |
grāhyabimbam tāvat grastam dṛśyate |

iṣṭaparilekhe, pragrahaṇamadhyamokṣavikṣepabindutrayerṇa matsyadvayam utpādya
tanmukhapucchanirgatasūtrasampātāt bindutrayasprksūtreṇa vṛttam bhrāmayet | [sa]
grāhyabimbakendramārgaḥ | tatra iṣṭagrāsakarṇapramāṇam [sūtram] kendrāt
yathādīśam grāhakamārgābhimukham prasārya yatra grāhakamārgam sprśati tasmāt
grāhakārdhena parilekhāt tatkālakhaṇḍagrahaṇam dṛśyate |

nimīlanonmīlanayoḥ vimardārdhaliptābhiḥ iṣṭagrāsavat karṇam ānīya iṣṭagrāsavidhinā
nimīlanonmīlane darśayitavye || 45 ||

[grāhyabimbasya varṇaḥ]

[grāhyabimba]varṇapratipādanāya āha ā

pragrahaṇānte dhūmraḥ khaṇḍagrahaṇe śaśī bhavati kṛṣṇaḥ |
sarvagrāse kapilaḥ sakṛṣṇatāmraḥ tamomadhye || 46 ||

pragrahaṇe sparśe, ante mokṣe, śaśī dhūmraḥ bhavati | khaṇḍagrahaṇe kṛṣṇaḥ bhavati
| khaṇḍagrahaṇam pragrahaṇāt ardhāsannam sarvaiḥ grhyate | sarvagrāse kapilaḥ
sakṛṣṇatāmraḥ tamomadhye | yadā sakalam bimbam channam bhavati tadā
sarvagrāsaḥ, tatra kapilavarṇaḥ | tasmāt parataḥ vimardakālāt madhyam yāvat
sakṛṣṇatāmraḥ bhavati | sūryagrahaṇe punar sarvadā kṛṣṇavarṇaḥ || 46 ||

[anādeśyam ravigrahaṇam]

grahaṇopalabdhipradarśanāya āha ā

sūryenduparidhiyoge arkāṣṭamabhāgaḥ bhavati anādeśyaḥ |
bhānoḥ bhāsvarabhāvāt svacchatanutvāt ca śaśiparidheḥ || 47 ||

sūryenduparidhiyogaḥ sūryagrahaṇam | atra arkabimbasya aṣṭamabhāgaḥ channaḥ api
anādeśyaḥ | bhānoḥ bhāsvarabhāvāt | tīkṣṇāṃśoḥ bhāsvarasvarūpatvāt iti | candrasya
api svacchatanutvāt aṣṭamabhāgaḥ bimbasya channaḥ api anādeśyaḥ iti |
grāhyabimbasya aṣṭamabhāgaḥ mānaikyārdhāt viśodhya śeṣaḥ iṣṭagrāsakarnaḥ |
tadvargāt sphuṭavikṣepavargonāt mūlam iṣṭonasthitidalalīptāḥ bhvanti | tāḥ ṣaṣṭiguṇāḥ
gatyantarahṛtāḥ ghaṭikāḥ | tāḥ sparśe tithyante
viśodhayet | mokṣe api tithyante yojayet | tau sparśamokṣakālau bhavataḥ || 47 ||

[grahasādhanopāyaḥ]

grahasādhanopāyapradarśanārtham āha ā

kṣitiḥ aviyogāt dinakṛt ravīnduyogāt prasādhayet ca indum |
śaśitārāgrahayogāt tathā eva tārāgrahāḥ sarve || 48 ||

kṣitiḥ ca raviḥ ca, tayoh yogaḥ kṣitiraviyogaḥ | tasmāt ravim sādhayet | ravīnduyogāt
indum sādhayet | śaśitārāgrahayogāt ca sarve tārāgrahāḥ ca sādhanīyāḥ |

dr̥gucchritam salilasamīkṛtabhūpradeśamaṇḍalakam cakrabhāgāṅkitavṛttaparidhim
dikcatuṣṭayacihnitam kārayet | tasya aparabhāge sthitaḥ sām̐vatsaraḥ prakparidhau

āsaktam udgacchantam sūryam lakṣayet | tataḥ tatpradeśe cihnam kṛtvā tiṣṭhet yāvat
anyodayam | tatra api yatra paridhipradeśe sūryaḥ udiṭaḥ lakṣyate tatra cihnam
nidadhyāt | evam udayatrayeṇa catuṣkeṇa vā antaraghaṭikāḥ yantrādinā lakṣayitavyāḥ |
tāḥ ravibhuktayaḥ ravyudayāntarāle bhavanti
| tāḥ eva sphuṭaravibhuktiliptāḥ | madhyadinacchāyayoḥ vedhena tajjyādividhinā
[ravidvayam ānayet] tayoh antaram [vā] sphuṭaravibhuktiḥ |

atha meṣādaḥ pravṛtte savitari sūryodayāḥ gaṇyante yāvat meṣādim praviśati, te
ravibhūyogāḥ jāyante | evam samyak upalakṣyamāṇāḥ ravibhagaṇabhoge śatatrayam
pañcaśaṣṭyā adhikam dinam bhavati 365 | ghaṭikāḥ pañcadaśa 15 | vighaṭikāḥ
ekatriṃśat 31 | prāṇāḥ sārḍhaikāḥ

3

2|

tāḥ krameṇa savarṇitāḥ upari bhāgāḥ 210389, chedaḥ 576 | evam etaiḥ aṃśaiḥ
ṣaṣṭasaptapañcacchedaiḥ ekaḥ arkabhagaṇaḥ | etaiḥ yagādimānam kriyate |

ravīnduyogaprasāadhanāya sūryādhikrāntacandram upalakṣayet | punar dvitīyam evam
varṣam prati jāgareṇa dvādaśa ravīnduyogāḥ 12, catvāraḥ rāśayaḥ 4, dvādaśa bhāgāḥ
12, ṣaṭcatvāriṃśat liptāḥ 46, catvāriṃśat viliptāḥ 40, aṣṭacatvāriṃśat tatparāḥ 48 |
ekena ravibhagaṇena yutāḥ ete savarṇitāḥ

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yugagatacandrabhagaṇāḥ traīrāśikena ā yadi ekena ravibhagaṇabhogena etāvantaḥ

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candrabhagaṇāḥ labhyante, tadā yuga[ravibhagaṇa]bhogena anena 4320000 kiyantaḥ
iti, labdham yuge candrabhagaṇāḥ 57753336 |

athavā candrasya iṣṭaśuklapratipat ārabhya pratidinam candrodayam upalakṣya binduḥ
kāryaḥ yāvat ravibhagaṇam | evam ravibhagaṇabhoge candrodayasamkhyāḥ jātāḥ

352

53

23

28

12

savarṇitāḥ

352 | 11532492

216000

etaiḥ trairāśikam ā yadi ekasmin [ravi]bhagaṇabhoge etāvantaḥ [candrodayāḥ]
bhavanti, [tadā yuga]ravibhagaṇabhoge kiyantaḥ | prāgvat yuge candrodayāḥ jātāḥ
1524484164 | kṣitibhagaṇebhyaḥ 1582237500 śuddhāḥ yugacandrabhagaṇāḥ
57753336 |

śaśitārāgrahayogān śaśibhagaṇebhyaḥ viśodhya śeṣam iṣṭagrahasya bhagaṇāḥ |
varṣam prati jāgareṇa candrabṛhaspatiyogāḥ bhagaṇāḥ 13, rāśayaḥ 3, bhāgāḥ 12,
liptāḥ 25, viliptāḥ 33, tatparāḥ 36 | ete kramaṇa savarṇitāḥ jātāḥ

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yadi ekasmin ravibhagaṇe etāvantaḥ

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guruśaśiyogāḥ labhyante, tadā yugaravibhagaṇe 4320000 kiyantaḥJiti, labdhāḥ
yugābde guruśaśiyogāḥ 57389112 candrabhagaṇebhyaḥ 57753336 viśodhya śeṣam
gurubhagaṇāḥ yuge jātāḥ 364224 | evam bhaumādīnām api ravibhagaṇabhogam yāvat
candreṇa saha yogān prasādhya grahabhagaṇasādhanam kartavyam | mārgadarśanam
eva etat asmadādīnām aviśayaḥ |

budhaśukrayoḥ śīghrasādhanam | prācyām astamitaḥ paścāt yāvadbhiḥ dinaiḥ uditaḥ
tāvatām dinānām ardhm udayadinebhyaḥ pātayet astamitadineṣu kṣipet | punar
prācyām yadā astamayaḥ pratīcyām udayaḥ tadā anena eva vidhinā
niraṃśadinasiddhiḥ kāryā | tayoḥ ādyantaniraṃśayoḥ madhye śīghrakendrabhagaṇāḥ
bhavati | budhasya śīghrakendrabhagaṇadināni āsannāni 116, śukrasya 584 | etaiḥ
bhūdinebhyaḥ 1577917500 bhāgam datvā labdham
budhaśukraśīghrakendrabhagaṇāḥ bhavanti |

ravyucca[paridhi]sādhanam | madhyāhnacchāyayā ravim prasādhya
taddinamadhyamaraviṇā viśeṣya madhyame adhike ṛṇam, dhanamūle | evam
pratidinam upalabhya yāvat vardhamānam raviphalam sthīrībhavati, tatphalam
paramaphalam | tataḥ param hrāsam eṣyati | paramaphaladine madhyame arke
ṛṇaphalopalakṣite rāśitrayam śodhayet, śeṣam ravimandoccam | dhanaphalopalakṣite
rāśitrayam kṣipet, mandoccam bhavati | paramaphalajyā cakrāṃśahatā trijyāhrtā
raveḥ paridhiḥ bhavati |

candroccaparidhisādhanam | sūryāstamayāt kṛṣṇe pakṣe yāvatībhiḥ ghaṭikābhiḥ

candrodayaḥ bhavati ghaṭikāyantrasādhitābhiḥ tābhiḥ ṣaḍrāśiyutāt arkāt lagnam
svodayaiḥ tripraśnoktavidhinā kartavyam | sa sphuṭacandraḥ | tat
tātkālikamadhyamacandraviśeṣaśeṣam māndaphalam dhanum ṛṇam vā | evam
pratyaham upalakṣayet pūrvavat yāvat vardhamānaphalam sthīrībhavati | tataḥ ravivat
uccaparidhisādhanam | evam pratidinam kuryāt yāvat madhyamasphuṭayoḥ
na kiñcit antaram syāt | sa eva candraḥ taduccam bhavati |
taddinaparamaphalapātadinocayoḥ antaram kṛtvā taddinaparamaphalārkyoḥ antaram
kāryam | tataḥ [ḥ trairāśikam] ā yadi anena gatyantareṇa etat uccāntaram, tadā
sūryabhagaṇaiḥ kim iti androccabhagaṇasiddhiḥ |

candrasya pātabhagaṇasādhanam | candragrahaṇe [sparśakālāt] madhyagrahaṇam
yāvat sthityardhaghaṭikāḥ candragrahaṇakālotpannāḥ tāḥ
sphuṭasūryaśaśibhuktyantareṇa guṇayet, ṣaṣṭyā vibhajeṭ, sthityardhaliptāḥ syuḥ |
tadvargam samparkārdhavargāt viśodhya śeṣasya mūlam candravikṣepaḥ | sa
trijyāhataḥ khāgākṣibhaktāḥ [270] kāṣṭhitaḥ bhujacāpam | evam mokṣam api
[sthityardham] madhyagrahaṇāt jānīyāt | yadi prathamasthityardham mahat ojaḥpade
grahaḥ bhavati, anyathā yugmapade syāt | yadi uttaravikṣepaḥ viṣamapade
bhujacāpam sphuṭam, yugmapade cakrārdhāt viśodhya bhavati | dakṣiṇavikṣepe
viṣamapade cakrārdham kṣipet, yugmapade cakrāt viśodhayet | sa bāhuḥ syāt | evam
svadhiyā śeṣam ca | evam anyat grahaṇakālikam bāhum utpādayet | ubhayoḥ antaram
sādhayet | grahaṇadvayakālāntarajā tatpātabhuktiḥ | tataḥ candrapātabhagaṇasiddhiḥ |

athavā candrasya dinārdhacchāyayā krāntim uktavat prasādhayet | tasyāḥ
taddinacandrakrāntyantaram vikṣepaḥ | śeṣam prāgvat iti |

budhasitayoḥ yāvatā rātrigatakālena astamayāḥ jāyate tāvatā lagnam ṣaḍrāśiyutam
sphuṭaḥ budhaḥ śukraḥ ca | śeṣāṇām candravat ānayanam rātrigate kāle |

madhyasphuṭayoḥ antaram mandaphalayutaviyutam śīghraphalam | punar pañcabhiḥ
ahobhiḥ phalasādhanam kartavyam | prākphalena saha viśleṣayet | evam tāvat
parīkṣayet yāvat vardhamānam śīghraphalam sthīrībhavati | evam svadhiyā abhyūhya
śīghrocca[paridhi]sādhanam | tārāgrahayogāntarāt
grahavikṣepasādhanam kartavyam | udayāstamayavakrānuvakraiḥ
śīghrabhagaṇasādhanam vidheyam | athavā graham yaṣṭyādiyantreṇa viditvā dvitīye
api dine tāvati eva kāle viddhyāt, tadantaram sphuṭabhuktiḥ | sā madhyamabhukteḥ
yadā ūnā syāt tadā kakṣyāmaṇḍalāt upari grahaḥ, adhikā cet tadā adhaḥ vartate |
tadbhūmadhyāntaram karṇaḥ | tadvaśāt paramālpatām paramādhikatām ca bhukteḥ
lakṣayet iti bhagaṇabhogam yāvat | bhagaṇabhogaḥ madhyamagatyā
eva bhavati | evam mandaphalasya paramādhikatām lakṣayitvā
paramamandakarṇavyāsārdhāntaram paramaphalam māndam bhavati || 48 ||

[sampradāyasamsmaraṇam]

bhagaṇādīnām pramāṇāni katham jñātāni ācāryeṇa tatpratipādanāya āha ā

sadasajjñānasamudrāt samuddhṛtam brahmaṇaḥ prasādena |
sajjñānottamaratnam mayā nimagnam svamatināvā || 49 ||

sadasat sat asat | sat śubham, asat aśubham | jñānam jñāyate anena iti |
sajjñānottamaratnam sat jñānam tat eva uttamaratnam, utkrṣṭam ratnam, jyotiḥśāstram |
nimagnam nilīnam | svamatināvā svakīyā matiḥ (svamatiḥ), svamatiḥ eva nauḥ tayā
svamatināvā sadasajjñānasamudrāt samuddhṛtam iti || 49 ||

[pratikañcukakāriṇe daṇḍavidhānam]

śapathapratipādanāya āha ā

āryabhaṭīyam nāmnā pūrvam svāyambhuvam sadā nityam |
sukṛtāyusoḥ praṇāśam kurute pratikañcukam yaḥ asya || 50 ||

āryabhaṭasya idam āryabhaṭīyam | kim tat? yadā eva atyantavipralīnasampradāyam
brahmaṇaḥ prasādena vā svanāmadheyam | yaḥ pūrvam svāyambhuvam āsīt idānīm
āryabhaṭena prakāśitatvāt āryabhaṭīyam | svāyambhuvam tat sarvadā nityam |
svayambhuvā praṇītam artham gṛhītvā ācāryāḥ śāstrāṇi racayanti |
sampradāyāvicchedāt tu saḥ arthaḥ jñātaḥ eva | anyathā atīndriyārthānām katham
mānuṣamātraīḥ iyam yuktiḥ kartum śakyate | asya pratikañcukam
pratibimbam yaḥ karoti tasya sukṛtasya āyusaḥ ca praṇāśam bhavati || 50 ||

[someśvarabhāṣyasya upasaṃhāraślokaḥ]

spaṣṭārthapratipādakam mṛdudhiyām sūktam prabodhapradam
tarkavyākaraṇādiśuddhamatinā someśvareṇa adhunā |
ācāryāryabhaṭoktasūtravivṛtiḥ yā bhāskarotpāditā
tasyāḥ sārātaram vikṛṣya racitam bhāṣyam prakṛṣṭam laghu ||

iti someśvaraviracitam āryabhaṭīyam bhāṣyam samāptam |

[bhāskarabhāṣyasya upasaṃhāraślokaḥ]

atīndriyārthapratipādakāni
sūtrāṇi amūni āryabhaṭoditāni |
teṣām aśakyaḥ arthaśatāmśakaḥ api

vaktum kutaḥ asmatsadṛśaiḥ aśeṣam ||

iti bhāskarasya kṛtau āryabhaṭatantrabhāṣye

golapādaḥ samāptaḥ |