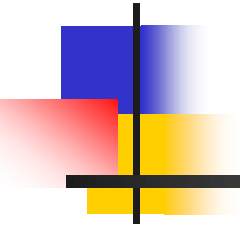


Musings on Vastupurushamandala



Sudarshan Raj Tiwari



Vāstupurushamandala

- An architectural design diagram
 - For a creation in harmony with Earth, (Planets in the) Sky and Time
 - For meeting the human quest for happiness/pleasure, peace and joy/bliss in
 - Physical environment
 - Psychical environment
 - Spiritual environment

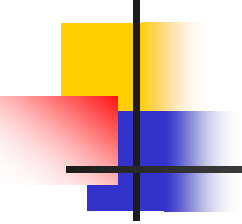


Vāstu and the Sesha

- Building perfectly
- Building in the image of the cosmos
 - The Perfect creates the perfect
 - Building in harmony
- Building on earth, Vāstu on Vastu
 - Creating with what is left over, residue
 - For the time that remains, remainder

Sthapatya Ved (Atharva Ved)

Tantra

- 
-
- Vedic theory and Tantrik application
 - Viswakarmā and his exponent Maya
 - Ved, Vid, Vedana
 - Vedana
 - Physical
 - Mental
 - Spiritual



Vāstusashtra

- Jyotish, Kalpa, Chhanda (?)
- Overlapping diagram
 - Space
 - Direction > sun/Naxyatra and Rasi Dial
 - Extent
 - Power, Energy sources
 - Time
 - Panchanga, Sun and Moon moving in the field of Naxyatra (plus moving earth)
 - Luni-solar time



Vāstupurushamandala

- Vastu
 - Extent of ordered space
- Purusa
 - Personification of Existence, the supreme spirit
- Mandala
 - Group and the form



Vāstupurushamandala

- Architecture as a function of
 - Earth, Sky and Time
- Human Quest for living environment
 - The Physical (for the body and its senses)
 - sight, hearing, smell, touch and taste
 - The Psychological (for the mind and its discerning instruments)
 - time, phase, vidhya, raag, niyati
 - The Spiritual (for the human spirit and its duality)
 - matter (siva, purusa), energy (shakti, prakriti)



Vāstupurushamandala

- Imaging the Cosmos:
- Desharupa, Uvayarupa, Kalarupa
 - In the Image of the Earth (from Devgarh?)
 - In the Image of the Sky (Navagraha)
 - In the Image of Time
- Earth
 - Site, natural characters, senses
 - Measurement, dimension, size
 - Proportions



Vāstupurushamandala

- Imaging the Cosmos:
- Sky
 - Direction, angle
 - Distance
 - Power, energy, spirit
- Time
 - As a play of the Luminous bodies in the sky: Jyotish
 - Sun, Moon and Stars (Naxyatra)
 - The Five Dimensional Time (Panchanga)
 - Var, Tithi, Naxyatra, Yoga and Karana



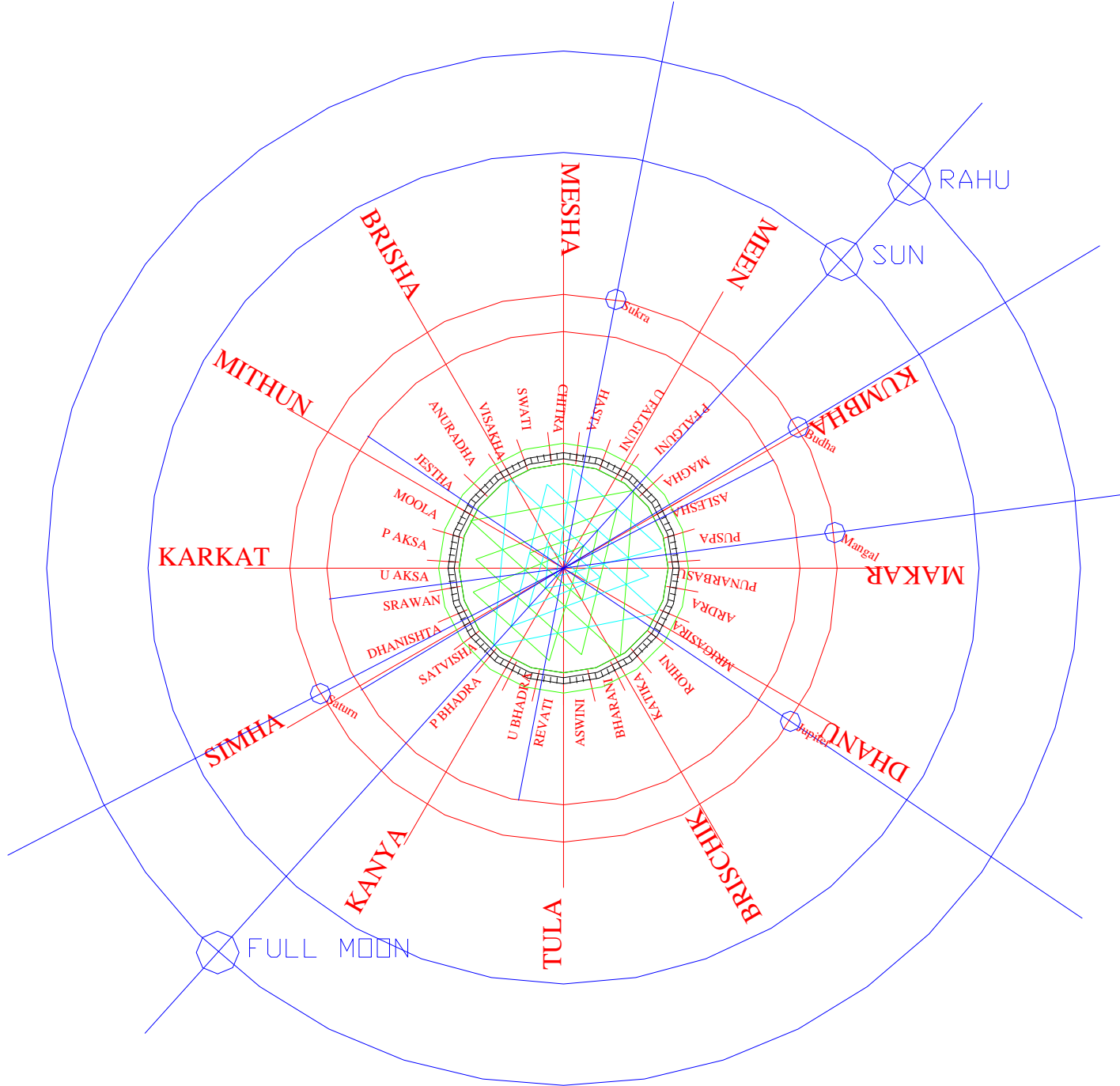
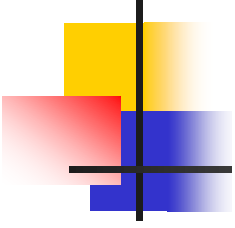
Earth

- The panchatatva, earth, water, heat, sky, air
- The Earth becomes the abode of all beings because of the sun. – Manasara 3.14
 - Defining the Physical Environment: LAND - SUN, WIND, RAIN, ...
- The ground is the site for all dwellings, dwellings must dwell on site. – Manasara 3.5-6
- **The contour, the colour, the odour, the features, the sound, the taste, and the touch;** examining these in order the site is ascertained for measurement. – Manasara 3.15-16
- All habitations are defined by their dimensions (Mayamata 5.1)



Sky, Space, Energy, Powers

- The Dial, 365.25 days, 360^0 , Naxyatra (Dhanista, Revati etc)
- Spherical Trigonometry
 - 100 kala segment of arc as straight length
 - Distance and Direction, 108
 - Movement of Earth, Sun (app. and real), Moon
 - Wobbling rotation, axial tilt, elliptical translation, Moon's wobble
 - Measuring 5^0
 - Naxyatra > 32, 28, 27 > **changing accuracies**





Time

- Panchanga

- Var: din, var, suryamas, rashi, ayana, naxyatra, 365.25
- Tithi, chandramas
- Yogas $> 27 > 13^0 20'$
- Karana > 60
- Naxyatra $> 32, 28, 27 > \textbf{changing accuracies}$

Vāstu as Proportion & Measurement

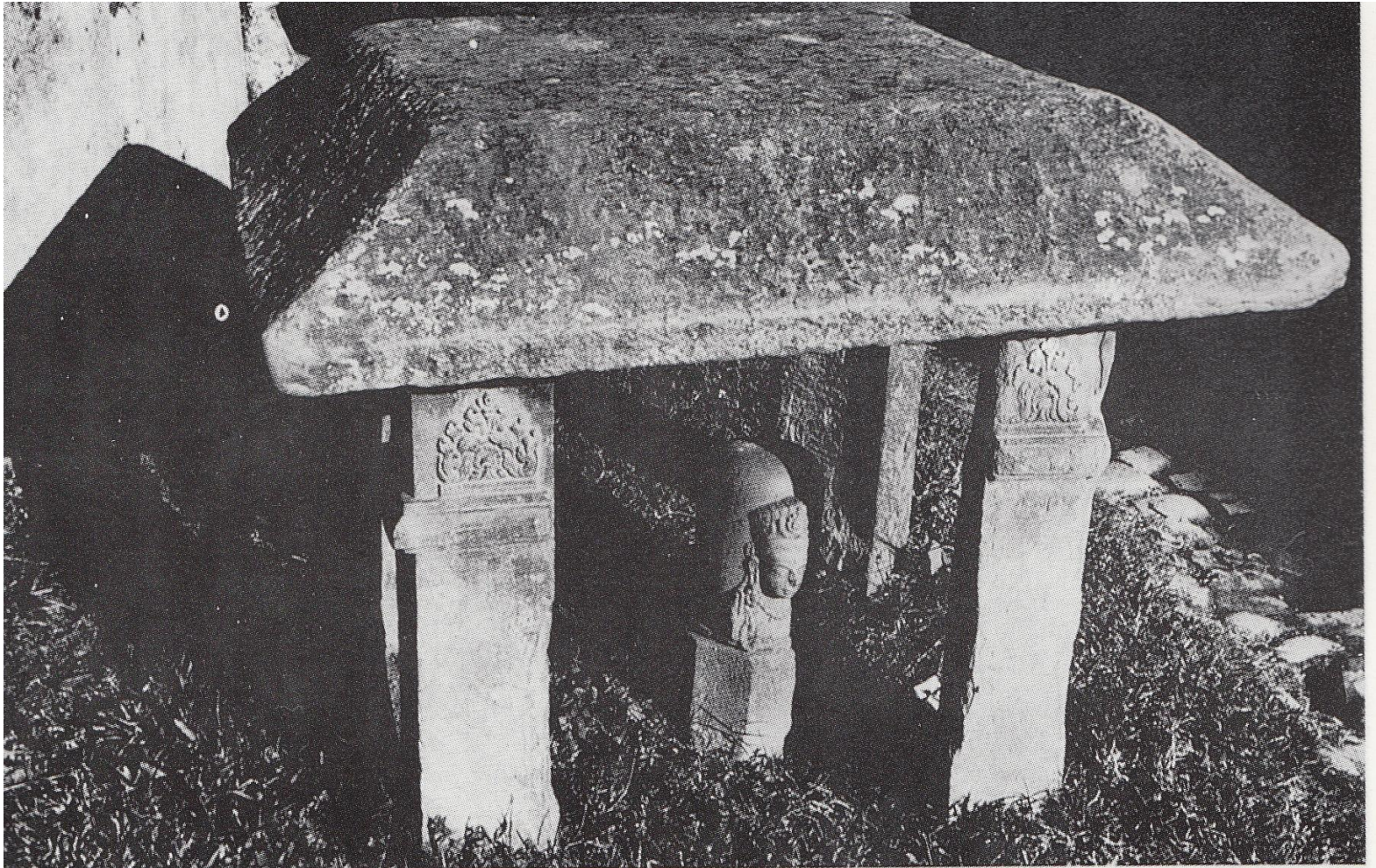


Nāgara . .

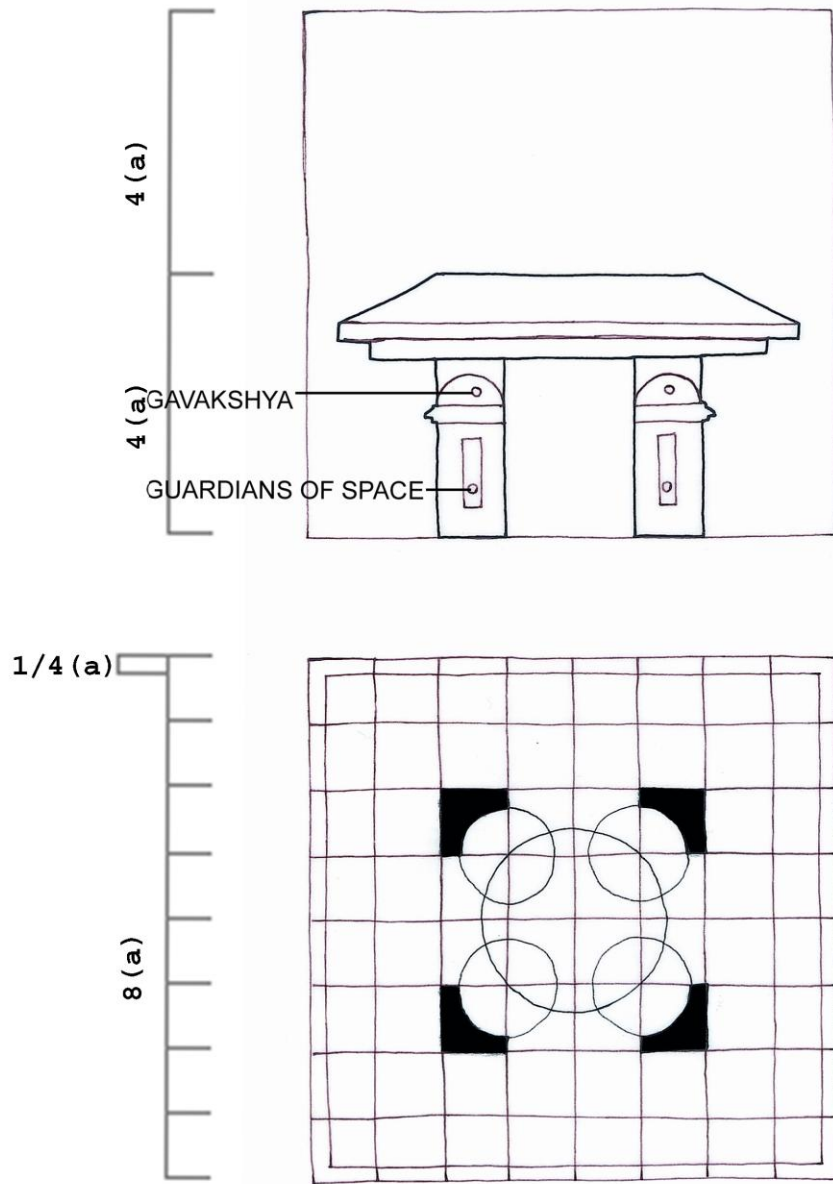
Lichchhavi Linga

Vesara . . .

Avarana Temple at Rajarajesvori



Avarana Temple at Rajarajesvori



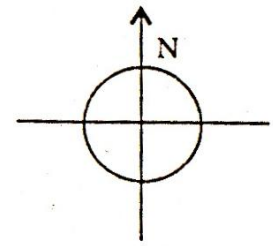


Vāstupurushamandala

- 32 Vāstupurushamandala, Yantra, Ecliptic
- 1, 4, 9, 16... 64, 81 ... 1024
 - Aditya, Yama, Varuna, Soma
 - Aditya, Agni, Yama, **Pavana**, Varuna, Gagana, Soma, Isa
 - (Prithvi) Veda, Dahana, Veda, Gagana, Veda, Pavana, Veda, Udaka
 - (Prithvi), Aditya, Agni, Yama, **Gagana**, Varuna, Pavana, Soma, Isa
 - (Brahma), Dinkar, Agni, Yama, Pitri, Varuna, Vayu, Soma, Isana
 - (Brahma), Bhanu, Agni, Yama, Pitri, Varuna, Marut, Soma, Isa

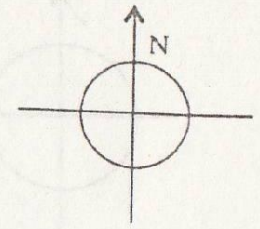
64 squares Manduka

32 padadevata



Nāga	Udita	Bhallāta	Soma	Bhūtinga Rāja	Aditi	Jayanta	Īśāna
Vāyu	Rudra-Jaya					Āpavatsa	Parjanya
Mukhya	Rudra	Mitra	Brahmā			Āpavatsa	Anta-rikṣha
Roga						Mahendra	
Śoṣha						Dinkar	
Varuṇa						Satya	
Pushpa-Danta		Vivasvat			Āryaka	Bhṛīṣa	
Godhā	Indra-Rāja					Savitra	Vitatha
Daurārika	Indra	Mṛīṣa	Candharva	Yama	Rākṣasa	Sāvitra	Agni
	Sugrīva					Mṛiga	Pūśān
Pitri							

81 squares Paramasāyika



Marut	Nāga	Mukhya	Bhallāta	Soma	Mṛiga	Aditi	Udita	Īśa
Roga	Rudra	Rudra-Jaya	Bhūdhara			Apavata	Āpavatsya	Parjanya
Śosha								Jayanta
Astira	Mitra		Brahmā			Āryaka		Mahendra
Varuṇa								Bhānu
Pushpa-Danta								Satya
Sugrīva	Indra-Jaya	Indra	Vivasvat			Sāvitra	Savitra	Bhṛīśa
Dauvārika								Anta-rikṣha
Pitṛi	Mṛisa	Bhrīnga-Rāja	Gandharva	Yama	Griha-Kṣhata	Vitatha	Pūśān	Agni

Indra-Jaya

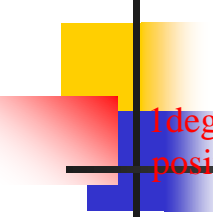
Vivasvat

The other three corners of Brahmā plot may like-wise be arranged differently



108, 25920, 64, 81, 5

- 81 Paramasayika
- 64 Manduka
- $9^2 \times 8^2 \times 5 = 25920$
- 25800 + years
- $4320000 \times 6 = 25920000$
- 41000 yrs
- Has the new always got to be right?
- 32 Great eclipses
- 25920 Great year of Bhrigu
- 108



1degree 23 minute Diameter of shadow of earth at the
position of Moon (aDse)

32 minute 2 second Apparent Mean Diameter of Sun (aDs)

31minute 37 second Apparent Diameter of Moon (aDm)

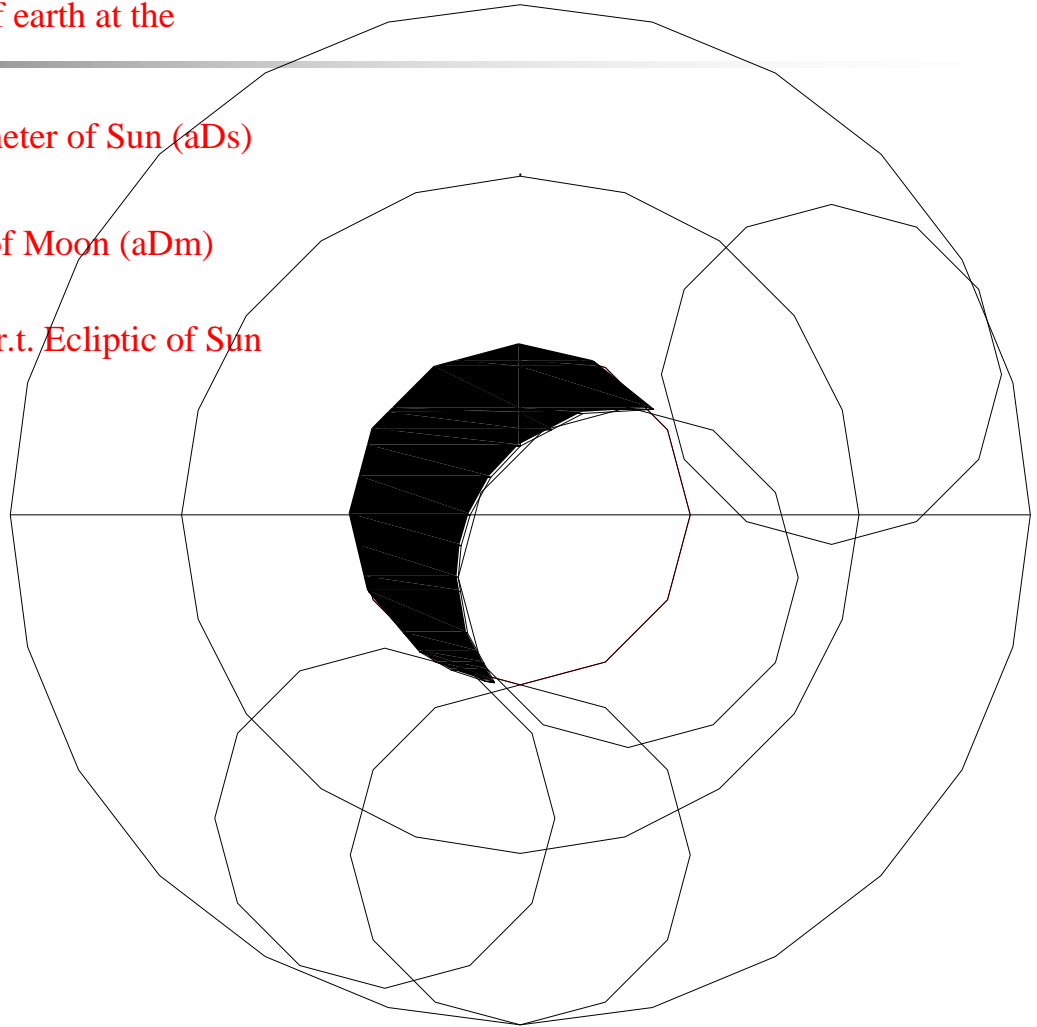
5 degree 9 minute Tilt of Moon's orbit w.r.t. Ecliptic of Sun
(aOTm)

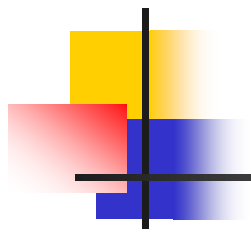
$$aDs = aDm = x$$

$$3x = aDse = y$$

$$3y = aOTm$$

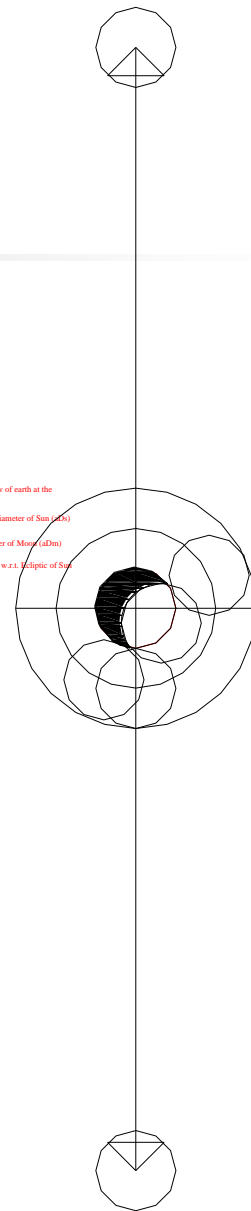
$$d/D = 108$$





1 degree 23 minute Diameter of shadow of earth at the
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31 minute 37 second Apparent Diameter of Moon (aDm)
5 degree 9 minute Tilt of Moon's orbit w.r.t. Ecliptic of Sun
(aOTm)

$$\begin{aligned} aDs &= aDm = x \\ 3x &= aDse = y \\ 3y &= aOTm \\ d/D &= 108 \end{aligned}$$





Six Ways of Vaastu

- The principle of site layout (Pada Vinyas) > Physical plane
 - Sadavarga > orientation to space/directions
- The principle of building plan (Tala Chandda) > Psychical plane
 - Sadavarga > orientation to heavens/planets
- The principle of measure and proportion (Manalaxyana) > Spiritual plane
 - Sadavarga > orientation to time
- The principle of surface decoration (Samchadda) and elevation (urdhwachandda)



Six Orientations/Mathematics of Remainders

- Sadavarga
- Aya > rashi/space in solar dial > $8l/12$
- Rixya > naxyatra/ space in moon dial > $8l/27$
- Tithi > Moon time > $9(2l+2b)/30$
- Bara > Sun time > $9(2l+2b)/7$
- Vyaya > $9b/10$
- Yoni > $3b/8$