The Vedic Calendar and the Rituals (1)

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0. The astronomical knowledge or the calendar system in the Vedic period until about the middle of the 1st millennium B.C., though scarcely investigated hitherto, differs fundamentally from the later Indian astronomy or astrology after the Jyotiṣa (as a Vedānga 'limb of the Veda' belonging to the post Vedic period) onward. This paper offers remarks about basic elements of the Vedic calendar, especially in its early stage, drawn from materials found to a great extent fortuitously by the author.

1. The peculiarity of the Vedic calendar

Time itself simply goes forward without pause and without return. But nature repeats various periodic changes: day and night, waxing and waning of the moon, lengthening and shortening of the daylight accompanied by the north- or southward movement of the sun, rotation of the constellations as well as the seasons, etc. The regularity of those phenomena must have deeply impressed our ancestors, which led them, on the one hand to the concept of the highest principle ruling the phenomena, and on the other hand to the reckoning of time for practical use. The time-reckoning systematized into the calendar brought forth revolutionary developments in human life, for secular as well as religious activities.

The periodicity of nature is expressed in Old Indo-Aryan language by the nouns to the verbal root * h_2er 'to fit, fügen': $pt\acute{u}$ - (masc.) 'the right time in exact accordance with the temporal cycle' means above all 'monthly period fit for conception of (children by) women' and more generally 'season'; $pt\acute{a}$ - (nt.) 'the cosmic order which regulates not only nature, but also human conduct' (\rightarrow 3.2. str.1, 3.3., n.5) is the most important concept in the early Vedic literature. The simplest but lifelong obligatory ritual for those who have set up their sacrificial fire is the Agnihotra, the daily offering to the fire at sunset and sunrise, which incited them to observe the sun's movement. No less important are the new and full moons at which the New and Full Moon Sacrifices ($darśapūrnamās\acute{a}u$) as well as most of the Vedic

rituals take place. An accurate forecast of the new and full moons was indispensable.

The ancient Indian calendar in the Vedic period until about the 5^{th} century B,C., as attested in the Samhitās, the Brāhmaṇas [Br] (inclusive of the prose-portion of the Black Yajurveda-Samhitās), the old stage of the Upaniṣads and of the Śrautasūtras, is a lunisolar calendar based on naked eye observations¹⁾ of heavenly bodies, which sets special importance on the moon's motion in relation to the movements of the sun and the fixed stars. The calendar date is determined by the moon's phase and position relative to the stars, which are observed in the nocturnal sky (\rightarrow 2., 3.1., 3.2. str.19).

When the moon is seen from the earth in the same direction as the sun, that is, in conjunction with the sun, the moon does not appear in the nocturnal sky. The moon is considered to stay (vas) at home $(am\tilde{a})$ with the sun in this night called $am\bar{a}v\bar{a}sv\bar{a}-r\bar{a}tr\hat{i}$ - (later $r\bar{a}tr(r)$ 'the night of (the moon's) staying overnight at home' (\rightarrow 3.1., 3.2., 3.4.A). After that, the thin new moon appears in the west after the sunset; changing its phase by waxing and waning, the moonrise or moonset becomes later as the sunset or sunrise every day on average by about 51 minutes (presumably the origin of the time unit *muhūrtá*- [a 30th of a solar day] → seq. 8.); consequently, the moon comes again into conjunction with the sun and disappears (\rightarrow 3.4.B). During the period between two successive conjunctions with the sun (the lunation; about 29.5 solar days), i.e. the synodic month, the moon moves in its orbit, approaching every night a different star or star-group which becomes thereby invisible, until it joins again with the sun. This phenomenon was understood as follows: the moon (masculine god) stays every night with a different star or star-group (each regarded as a feminine divinity) situated on its path, 28 or 29 nights in total, and stays at home with the sun during the Amāvāsyā night (→ 3.2., 3.4.). The star (-group) s as well as the sun visited by the moon are named náksatra- (nt.) 'the place to which the moon attains (náksa-li)', commonly translated "lunar mansion" or "Mondhaus" (→ seq. 5), náksatra- is attested in the Rgyeda [RV] where the singular form (nt,) always means the sun, while the star in general is expressed by the word of Indo-European origin (*h,stér-), stár- (RV: intr.pl, stíbhih, nom.pl, tárāh), later taraka- (AV+, MIA taraka-/taraya-) and tara- (Class, Skt., MIA). After the RV on, the sun was excluded from the Naksatras.

An enumeration of the 28 Nakṣatras, remarkable star (-group)s situated approximately equidistant on or near the moon's path, appears first in the Atharvaveda [AV] (Śaunaka XIX 7,1-5; not found in the Paippalāda-recension). The number of the Naksatras is reduced into

27 in the prose on of the Kāthaka-Samhitā [KS] XXXIX 13:130,14ff, and the Taittirīva-Samhitā [TS] IV 4,10,1ff., but increased to 29 in the Maitrāyanī Samhitā [MS] II 13,20:165,12. The varying number of the Naksatras reveals the problem caused by the divergence between the sidereal month (i.e. the cycle of the moon's revolution relative to the stars: about 27.32 solar days \approx 27 days 8 hours) and the synodic month (about 29.53 solar days \approx 29 days 13 hours) which is about 2 days 5 hours longer than the former due to the revolution of the earth around the sun, According to the 28 (or 29) Naksatras based on the synodic month, the moon's relation to the Naksatras becomes unstable; by contrast, the 27 Naksatras based on the sidereal month are in disaccord with the calendar date of the synodic month $(\rightarrow 3.1.)$. The 27 Naksatras model, preferred in the scholastic tradition, was transmitted to the post Vedic work Jyotisa, while the 28 Naksatras survived in the tradition of the AV such as the AV-Parisista, and further in early popular calendars, traces of which remain in the Buddhist texts, e.g. the Mahāniddesa 382,4f. (Pāli Canon), the Śārdūlakarṇāvadāna 51f. (Divyāvadāna). In either case, the term Naksatra means concrete heavenly bodies related to the moon in the Vedic literature, and to a large extent in early popular calendars. In this regard, it should not be forgotten that the stars near the bright moon or in conjunction with the moon are invisible to the naked eye. The Naksatra at which the moon stays each night can be only inferred from attentive and continuous observation of the nocturnal sky. In the Jyotisa, the notion of the Naksatras was transformed into the equally spaced zones of the ecliptic. This marks the radical change from primitive astronomy to mathematical astronomy as an exact science. For the details of the Naksatras, s, seq. 5.

2. The calendar day

A calendar day is a solar day which begins originally at sunset, i.e. a night and the following daytime, as in the Jewish or Arabic calendar, since the date is determined by the moon's phase observed at night (→ 3.1.). Thus paurnamāsi- (fem., [rātri-/rātri-]) 'the full moon night' designates 'the full moon day, i.e. the full moon night and the following daytime', identical with paurnamāsá- (nt. [áhan-]); in the same way, amāvāsyā- means 'the Amāvāsyā night and the following daytime', áṣṭakā- 'the 8th night of the half month and the following daytime', etc. This usage is frequent in the Br and the ŚS, e.g. MS^p I 6,9:101,17f. yát paurnamāsyām vāmāvāsyāyām vāgním ādhattá, ubhé punyāhé 'That [one] sets up one's sacrificial fire in the daytime following the full moon night or the Amāvāsyā

night, [that is to say] the both are auspicious <u>days</u>', Vaitāna-Sūtra 31,1 *māghyāḥ purastād* <u>ekādaśyāṃ</u> saptadaśāvaraḥ sattram upayanto brāhmaṇoktena dīkṣeran 'In the daytime following the 11th night (of the waxing half month) before the full moon situated at the Maghās (fem. pl. Leonis α, etc. → seq. 5.), at least 17 [persons], if they are undertaking a Sattra, should consecrate themselves according to the prescript in the Br' (≈ Baudhāyana-ŚS XVI 13:260,5), Kātyāyana-ŚS 13,1,2 gavāmayanāyaikāṣṭakāyāṃ dīkṣā 'The consecration for the Gavāmayana [takes place] <u>in the daytime following</u> the 8th night of the waning half of the Māgha month (ekāṣṭaká-)'. The reckoning of calendar days by the night is common, e.g. MS^p I 5,13:82,2-5 yátra páñca rấtrīḥ sáṃhitā váset táj juhuyāt ... daśásv evá rấtríṣv antamáṁ hotavyàṃ 'Where one stays overnight for more than 5 successive nights, one should there make an offering [to Rudra Vāstoṣpati] ... After 10 nights [have passed], one should make an offering on the last [day]'.

This old calendar day system is reflected in the Agnihotra (→ 1.); the offering at sunset precedes that at sunrise and is treated as representative of both offerings. It is further inferred that the prototype of the New and Full Moon Sacrifices (darśapūrṇamāsáu) begins with the sunset of the Amāvāsyā or the full moon night, i.e. the sacred night for upavasathá- 'staying overnight near the sacrificial fire (with observance of sacrificial duties)'. Though the Upavasatha designates 'the preparatory day for the New and Full Moon Sacrifices' in the system of Śrauta-rituals, its original meaning survives in the Uposatha ceremony of Buddhism and Jainism (MIA uposatha- < OIA upavasathá-).

A new calendar day beginning at sunrise as in the Jyotiṣa seems, however, to have prevailed over that beginning at sunset, as the worship of the sun became predominant.

3. The calendar month and the date

3.1. A calendar month (m. $m\bar{a}s$ -, $m\bar{a}sa$ -; cp. $m\bar{a}s$ -, $candr\dot{a}m\bar{a}s$ -, $candr\dot{a}$ - 'the moon') is a synodic month starting with the Amāvāsyā night, during which the moon comes into existence from non-existence, waxes to the full moon, wanes to disappearance. The moon's cycle is compared with the human life of birth, growth, decay and death; the new moon after the conjunction symbolizes rebirth after death (\rightarrow 3.2., 3.3., 3.4.). The predominance of the conjunction over the full moon in origin explains why the New Moon Sacrifice was given more weight than the Full Moon Sacrifice, cp. the two offerings of the Agnihotra (\rightarrow 2.).

The full moon (moon age 14.8) occurs when the moon is seen from the earth in the

opposite direction of the sun. The Nakṣatras, which are fixed stars, gradually change their position in the sky according to the annual revolution of the earth around the sun. In consequence, the Nakṣatra at which the full moon lodges shifts every month. The calendar month is designated according to the Nakṣatra at the full moon: e.g., the Nakṣatra $citr\hat{a} \rightarrow$ the full moon night $caitr\hat{i}$ - $(r\bar{a}tr\hat{i}$ -) \rightarrow the month caitra-. As an instrument to distinguish the months from each other, the full moon night increased its importance.

A month is composed of a waxing half month ($\dot{s}ukra-pak\bar{s}a$ - 'bright wing') and a waning half month ($\dot{k}_I\bar{s}na-pak\bar{s}a$ - 'black wing'). The date is expressed by the night as counted from the Amāvāsyā night or the full moon night in each half month: e.g. $\dot{a}stak\bar{a}$ - 'the 8th night of the $\dot{s}ukra-pak\bar{s}a$ - or the $\dot{k}_I\bar{s}na-pak\bar{s}a$ -', in which the half moon (moon age about 7.2 or 22) appears, means a calendar day composed of this night and the following daytime (\rightarrow 2.).

The lunation, though variable by more than 13 hours according to the moon's speed in its orbit, is on average about 29.53 solar days (\approx 29 days 13 hours). Due to the divergence between the lunar cycle (month) and the solar cycle (day), the conjunction as well as the full moon occurs every month at different time, also in the daytime, from which arises difficulty in determining the Amāvāsyā or the full moon night. Actually it was not rare to begin the New or the Full Moon Sacrifice one day before or after the correct date, for which the expiation ($pr\bar{a}ya\&citti$ -, °citta-) is prescribed in the Br and the ŚS. A similar problem concerning the Uposatha is discussed in the Vinaya of the Buddhist Canon (\rightarrow seq. 9.).

The divergence between the synodic month and the solar year (on average about 365.24 solar days) causes the full moon or conjunction to shift by about 11.24 solar days a year (→ seq. 4.). Consequently, the full moon or the conjunction changes every year its relation to the vernal and autumnal equinoxes and the summer and winter solstices as well as its position relative to the fixed stars. The full moon is situated often between two Nakṣatras in discordance with the fixed Month's name based on the Nakṣatra at the full moon.

The above mentioned inaccuracy always accompanies the Vedic calendar, which is based upon naked eye observations of the moon's position relative to the stars.

Beside the actual calendar used in the Vedic Period, a notional calendar appears in the Br, according to which a month is composed of 30 days and a year of 12 months, namely 360 days. This conception seems to underlie the 29 Nakṣatras in the MS^p (\rightarrow 1., seq. 5.) and to have prepared the notions of *tithi-* and *muhūrtá-* (\rightarrow seq. 8.). This calendar system is favored by the Brahmin scholars in theological speculation regarding the complete year

(samvatsará-) which symbolizes eternity (→ seq. 4.).

3.2. The moon's marriage with the sun: RV X 85 (\approx AV XIV 1)

The marriage of the moon (King Soma) and the Sun goddess $S\overline{u}ry\overline{u}$ (daughter of Savit_g)²⁾ symbolizes the conjunction of the moon and the sun; their wedding implies the New Moon Sacrifice (str.3-5), which is further combined with the rituals such as the Animal Sacrifice at the summer or winter solstice (str.13 \rightarrow seq. 5.f.). The word *sóma*- is used in manifold senses: Soma sap squeezed from a certain plant (most probably ephedra), the gods' food which brings immortality (*amṛta*-, "ambrosia") and the moon (\rightarrow 3.4.).

- satyénóttabhitā bhūmiḥ İ sūryenóttabhitā dyáuḥ | rténādityās tiṣṭhanti İ diví sómo ádhi śritáḥ ||
 The earth is upheld by the truth (satyá-); the heaven is upheld by the sun. By the cosmic law (rtá- → 1., n.5), the Āditya-gods stand; Soma (the moon) is clinging on the heaven.
- 2. sómenādityā balínaḥ sómena pṛthivī mahī | átho nákṣatrāṇām eṣām upásthe sóma āhitaḥ ||
 By Soma, the Āditya-gods are powerful; by Soma, the earth is great. And then, Soma is placed on the lap of these Nakṣatras.
- 3. sómam manyate papivấn 'yát sampimṣántṣv óṣadhim | sómam yám brahmắṇo vidúr 'ná tásyāśnāti káś caná || [The sacrificer] thinks that he has drunk Soma, when [the priests] squeeze
 the plant (stalk of Soma). Whoever [may be on earth,] does not eat Soma (the moon) which
 [only] the priest-scholars know.

The offering of Soma sap to the gods on the day following the Amāvāsyā night brings forth the moon's rebirth and waxing, which suggests the origin of the New Moon Sacrifice (→ 3.4.A).³⁾ On this day, the moon in conjunction with the sun is situated high in the bright heaven and invisible, being covered with sunrays (*raśmi*- masc. pl.):

- 4. āchádvidhānair gupitó bắrhataiḥ soma rakṣitáḥ | grấvam íc chṛṇván tiṣṭhasi há te aśnāti pắrthivaḥ || Protected by the arrangements for covering (i.e. sunrays?), guarded by those belonging to the height (i.e. winds?, cf. str. 5), o Soma, you stand hearing the very press stone (of the Soma plant). One who belongs to the earth does not eat you.
- 5. yát tvā deva prapíbanti táta á pyāyase púnaḥ | vāyúḥ sómasya rakṣitā sámānām mắsa ắkṛtiḥ || When [the gods] begin to drink you (as Soma sap offered in the New Moon Sacrifice), o God, then you (as the moon) swell again. The wind is Soma's protector; the month (mắsa-) is the basic form of the years.

The str. 6-17 describe the wedding procession of Sūryā on the Aśvins' wagon (→ seq. 5.)

13. sūryáyā vahatúḥ prắgāt savitắ yắm avắsrjat aghắsu hanyante gắvó-drjunyoḥ páry uhyate
The wedding procession of Sūryā, whom Savitr sent off, has started. [When the full or new moon is situated] at the [Nakṣatra of] Aghās (fem.pl., AV XIX 1,13 Maghās → 2.), cattle

are slaughtered [for the sacrifice]. [When...] at the [Nakṣatra of the] Arujunīs (fem.du.; AV Phalgunīs), Sūryā is carried around [from the father's to the bridegroom's house].

The str. 18-19 (\approx AV VII 81,1f.) praise the wonderful faculty ($m\bar{a}y\bar{a}$ -) of the sun and the moon, especially the moon which repeats rebirth and guarantees long life (\rightarrow 3.3.).

- 18. pūrvāpáram carato māyáyaitáu síśū krílantau pári yāto adhvarám | víśvāny anyó bhúvanābhicáṣṭa tríimr anyó vidádhaj jāyate púnaḥ | Alternatively [going] ahead and behind [each other], these two wander with wonderful faculty (māyā-) (i.e. the moon proceeds the sun before the conjunction, after which the sun proceeds the moon); the two playing children go around the ritual way. The one (the sun) observes all the beings; the other (the moon), disposing the periods (months, seasons, etc.: ttú- → 1.), is born again.

[Str. 20-47 are omitted.]

3.3. The moon's marriage with the Nakṣatras: Prose-portion of the Black Yajurveda

A person afflicted by ydksma- (or $r\bar{a}jayaksma$ -) "consumption" is compared with the waning moon. The moon's rebirth and waxing are combined with the ritual for the healing from this disease, the mantras for which are parallel to RV X 85,18f. (\rightarrow 3.2.). With regard to this ritual, the origin of the waning and waxing of the moon caused by its marriage with the Naksatras is related (MS^P II 2,7:21,4-14; KS^P XI 3:147,1-12; TS^P II 3,5,1-3).

MSP II 2,7:21,4-9 prajāpatir vái sómāya rājñe duhitfr adadān nákṣatrāṇi, sá rohinyām evāvasan, nétarāsu, tā ánupeyamānāḥ púnar agacchams, tám rājayakṣméṇāgrāhayat, sá nírasravat, tásmād rājayakṣmágrħito níḥsravati, sá vái prajāpatim evópādhāvat, tám prajāpatir abravīd, rtám brūhīti, sá rtám abravīd, yáthā sárvāsv evá samāvad vásānīti, tásmād eṣá sárvāsv evá samāvad vasati. Prajāpati, verily, gave to King Soma (the moon) his daughters, [who were] the Nakṣatras. He (King Soma) lodged only at Rohiṇī, not at the others. Those who were not being approached [by King Soma] went back [to Prajāpati]. [P] made him grasped by the rājayakṣmá-. He (i.e. his body fluids [Soma sap]) dripped out (KS tṛṇam ivāśuṣyat He shriveled like grass). Therefore one grasped by rājayakṣmá- (i.e. one's body fluids [urine, sweat, blood, etc.]) drips out. He (King Soma), verily, ran for help indeed to P. P said to him: "say [what accords with] the cosmic order (i.e. swore an oath): "[The cosmic order is so,] as (yáthā) I shall (subj. vásāni)⁶ lodge equally indeed at all [the P's daughters]. Therefore this (King Soma) lodges equally indeed at all [the P's daughters].

The marital custom in older times seems to be reflected in this myth. In the TS, the number of the Prajāpati's daughters is 33, but not designated as Nakṣatras. Noteworthy is the significance of Rohiṇī (\rightarrow 5), usually identified with Aldebaran (Tau α) which was situated approximately at the vernal equinox around the 12th century B.C.

3.4. The moon as food of the gods or Indra (the sun): Śathapatha-Brāhmaṇa I 6,4

The moon's and the sun's movements are explained from the viewpoint of circulation of the food for Indra and the gods $(\rightarrow 3.2.)^{7}$. Indra is equated with the sun, as usual in the ŚB.

- A) The former part of this Br relates that both Indra (the sun) and King Soma (the moon) stay in the Am $\bar{a}v\bar{a}sy\bar{a}$ night at home, i.e. on earth, with a theological etymology of $am\bar{a}v\bar{a}sy\bar{a}$ -
- $(\rightarrow 1)$ from $am\ddot{a}$ adv. and $vasa^{-i}$ of $v\acute{a}su$ m. (i.e. Indra) and nt. (i.e. King Soma).

H with the subjects

[On the offering of Purodāśa (a kind of pan-cake) to the pair of Indra and Agni]

... ténaitắm rắtrim sahājagāma. sá vái devānām vásur. vīró hy èṣām. //2// té devā abruvan. / amā vái no 'dyá vásur vasati yó naḥ prāvātsīd íti. ... //3// ... [Agni] came back [to the earth] with him (Indra who had been hidden) in this (Amāvāsyā) night. He (Indra) is, verily, the good [god] (vásu- m.) among the gods, for he is a hero among them. Then the gods said: "At home (amā), verily, stays now the good [god] among us, who went on journey [to fight with Vrtra] for us".

The Indra's home, though not directly expressed, must be the earth, since his companion Agni stays on earth in the Amāvāsyā night for the Upavasatha of the New Moon Sacrifice.

[On the offering of Sāmnāyya (mixture of sour and fresh milk) to Indra]

... eşá vái sómo rắjā devắnām ánnam yác candrámāh, sá yátraişá etấm rắtrim ná purástān ná paścắd dadťsé tád imám lokám ắgacchati, sá ihàivầpás cáuşadhīs cá právisati, sá vái devắnām vásv. ánnam hy èṣắm tád, yád eṣá etấm rắtrim ihằmắ vásati tásmād amāvāsyà nắma. //5//

This King Soma is, verily, food of the gods, when [he is] the moon. When this (King Soma) as such (the moon) is seen neither in the east nor in the west this whole night, then he comes to this world (cf. ŚB XI 1,1,4). He enters just here into waters and plants. He is, verily, the goods ($v\acute{a}su$ -nt.) of the gods, for he is food of the gods. From that this [King Soma as the moon] stays this whole night here at home ($am\acute{a}$), [this night is] $am\~av\~asy\~a\~$ by name.

From the offering of Sāmnāyya, equated with Soma, the moon is born anew $(\rightarrow 3.2., n.3)$:

... tád enam adbhyá óṣadhibhyah saṃbhṛ́tyāhutibhyó 'dhi janayati. sá eṣá āhutibhyo jātáḥ paścād dadṛ́śe. //15// ... Then [one] collects him (King Soma as the moon) from waters, from plants, and makes him to be born from offerings [of the collected Soma]. Thus this (King Soma as moon), born from offerings, is seen in the west.

B) In the later part of this Br, the sun's and the moon's motions are described respectively

as Indra's and his rival Vrtra's actions. The moon (Vrtra) approaches the sun (Indra) from afar and is devoured by him in the Amāvāsyā night. Sucked out and thrown out by the sun, the moon appears again in the west and waxes to become his food:

tád vắ eśá evéndraḥ / yá eṣá tápaty. áthaiṣá evá vṛtró yác candrámāḥ, sò 'syaiśá bhrắtṛvyajan-meva, tásmād yády ápi purắ vídūram ivoditó 'thainam etắm rắtrim úpaivá nyắplavate, sò 'sya vyắttam ắpadyate. //18// tám grasitvódeti. / sá ná purástān ná paścắd dadṛśe. ... //19// tám nirdhíya nírasyati. / sá eṣá dhītáh paścắd dadṛṣe, sá púnar ắpyāyate. sá etásyaivānnādyāya púnar ắpyāyate. ... //20// Then, verily, this very one is Indra, this which heats (i.e. the sun). On the other hand, this very one is Vṛtra, if [it concerns] (yád) the moon. This (Vṛtra) as such (the moon) has just the nature as his (Indra's) rival. For this reason, even though [Vṛtra = the moon] was risen formerly just far away [from Indra = the sun], after that, [Vṛtra] floats just near to him (Indra) this (Amāvāsyā) night. He (Vṛtra) attains to his (Indra's) opened mouth, [Indra] rises after he has devoured him (Vṛtra). He (Vṛtra) is seen neither in the east nor in the west. ... After [Indra] has sucked out him, [Indra] throws out him, Thus sucked out, this (Vṛtra) is seen in the west. He swells again, He swells again for (in order to become) food of this very [Indra].

To be continued (: 4. The calendar year, 5. The Naksatras, 6. The beginning of the year, 7. The seasons, 8. The shorter time unit, 9. Influences on the popular calendar).

Key words astronomy, calendar, rtú, rtá, nákṣatra, amāvāsyā, sóma, agnihotrá, darśapūrna-māsáu, Indra, Vrtra, Rgveda, Atharvaveda, Yajurveda-Samhitā, Śatapatha-Brāhmaṇa, (ret, Associate Professor, Osaka City University; Dr. de 3ème cycle, Université de Paris III)

¹⁾ For astronomical instruments in ancient India, cf. ÔHASHI, Development of the astronomical observation in Vedic and Post-Vedic India, Indian Journal of History of Science 28 (3), 1993, 2) For this marriage, cf. Kauśītaki-Br XVIII 1 (Sūryā's father is 185-251, esp. 195-197. Savitr or Prajāpati), Aitreya-Br IV 7 (Prajāpati). 3) The main oblation of the New Moon Sacrifice might have been in origin Soma, which was substituted by Sāmnāyya, then replaced by Purodāśa. 4) Cf. Zysk, Medicine in the Veda, 1985 [rep. 1996], 12-17: yáksma (consumption; tuberculosis). 5) rtá- (→ 1., 3.2.str.1) as "truth" or "Wahrheit" (Tichy, Konjunktiv 143 with Anm,190; AMANO, Maitrāyanī Samhitā I-II, 487 with Anm,2040f,) is difficult to accept, For $pt\acute{a}m + am^i/br\bar{u}/vad/kr$ 'Eid leisten, swear an oath', cf. Hoffmann, Aufsätze I 292 with Anm, 17. Cp. the parallel KS rtám amīśva yáthā ... sá rtám amīt. 6) The subj. vásāni in the váthāclause in the MS expresses what the cosmic order requires. 7) The gods' food (Soma as moon) or nourishment in general circulates in the cosmos as described in ŚB I 6,4,5f.;15, XI 1,1,4f., VI 2,2,16, XI 6,2,6-10, s. Author, Fs. Narten, 2000, 248f; Akten des 27. Deutschen Orientalistentages, 1998 [2001], 159-162. For the circulation of vital energy in the cosmos, s. Author, Studies in Religions East and West 35, 2008 [2009], 97-100 (in Japanese).

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