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Total Replacement of the Affix *Jas by the Substitute Śī* The *kaumudī*s Interpretation of A 1.1.55 *anekālśit sarvasya*

Valentina Ferrero Università degli Studi di Cagliari, Italia

Abstract The present article focuses on the replacement of the whole affix Jas by the substitute Si, when it occurs after a sarvanāman (pronominal stem) ending in the short vowel -a, as taught by Pāņīni in A 7.1.17 jasaḥ sī. Most commentators attribute the evocation of A 1.1.55 anekālšit sarvasya to the fact that Si is marked with S, while Bhaṭtoji Dīkṣita, on the other hand, attributes this evocation to the anekāl nature of sī. This paper analyses the commentaries previous to the Siddhāntakaumudī (SK) to understand when sī started being understood as anekāl, concluding that Bhaṭtoji Dīkṣita did not abandon the tradition since this appears to be a fresh reinterpretation of Kātyāyana's vārttikas.

Keywords Pāṇini. Sarvanāman. Pronominal inflection. Nominative plural. Commentaries.

Summary 1 Introduction. – 2 The Commentarial History of A 7.1.17 *jasaḥ śī.* –3 *Paribhāṣā* and Traditional Examples on (*an*)*ekāltvam.* –4 Coming Back to Kātyāyana and Patañjali. – 5 Conclusion.



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1 Introduction

The topic of the present research is the analysis of the substitute $S\bar{i}$, which replaces the affix *Jas* (that is, the affix of the nominative plural) based on the indigenous grammatical explanations, in particular, according to sūtra A 7.1.17 jasah śī [angasya #6.4.1 atah #9 sarvanāmnah #14]: "Śī replaces Jas, when it occurs after the pre-affixal base consisting of a pronominal stem ending in the short vowel -a": moreover, several commentaries are taken into account in order to understand the change in the interpretation of $S_{\bar{i}}$ in accordance with aphorism A 1.1.55 anekālśit¹ sarvasya "a substitute consisting of more than one phoneme (anekāl) or marked with \hat{S} (\hat{Sit}) replaces the whole". In conclusion, a step back in the *Mahābhāsva* (M) and in Kātyāyana's vārttikas (vt.) will be taken to demonstrate that, even though the Siddhantakaumudī (SK) often shows innovative reasonings, its author mostly limits himself to take position for one of the interpretative hypotheses developed within the grammatical tradition, from the Astādhyāyī (A) of Pānini onwards.

The main context of the article is determined by Sanskrit pronouns that need to be defined first: they are introduced by Pāṇini in rule A 1.1.27 *sarvādīni sarvanāmāni*, that is, "the word-forms beginning with *sarva* 'all' are designated as *sarvanāman* 'pronouns'". This *sarvādi* introduces a list of thirty-five pronominal stems, the first member of which is *sarva* 'all'.²

In *navya vyākaraņa* works,³ it is generally taught that the inflection of Sanskrit pronouns is $r\bar{a}mavat$ (i.e. 'like that of Rāma') for most of the *vibhaktis*. Nevertheless, it is important to note that the pronominal declension is partially different from the nominal one. For

3 Some works of *navya vyākaraņa* have been taken into consideration here, mainly the *Siddhāntakaumudī* by Bhaṭṭhoji Dīkṣita (sixteenth-seventeenth century), the three *kaumudī* by Varadarāja (seventeenth century), namely the *Madhyasiddhāntakaumudī*, the *Laghusiddhāntakaumudī* and the *Sārasiddhāntakaumudī*, and finally a modern Hindī commentary called *Bālasiddhāntakaumudī* by Jyoti Svarūpa Miśra (1991).

All the translations are by the Author, unless specifically stated. The Author is deeply grateful to the anonymous reviewers for their insightful suggestions.

¹ According to Vāsudevadīkşita's interpretation of anekālśit as na eka aneka, aneka al yasya sa anekāl, śakāra it yasya sa śit, anekāl ca śit ceti samāhāradvandvah [sic] (Bālamanoramā on SK ad A 1.1.55).

^{2 (1)} sarva 'all', (2) viśva 'all', (3) ubha 'two', (4) ubhaya 'both', (5) word-forms ending with the affix *Datara*, (6) word-forms ending with the affix *Datama*, (7) *itara* 'other', (8) anya 'other', (9) anyatara 'either', (10) tvat 'other', (11) tva 'other', (12) nema 'half', (13) sama 'all', (14) sima 'whole', (15) pūrva 'east or prior', (16) para 'subsequent', (17) avara 'west or posterior', (18) dakṣiṇa 'south or right', (19) uttara 'north or inferior, subsequent', (20) apara 'other or inferior', (21) adhara 'west or inferior', (22) sva 'own', (23) antara 'outer or an under or lower garment', (24) tyad 'he, she, it', (25) tad 'he, she, it', (26) yad 'who', (27) etad 'this', (28) idam 'it', (29) adas 'that', (30) eka 'one', (31) dvi 'two', (32) yuṣmad 'you', (33) asmad 'we', (34) bhavat 'you', (35) kim 'what' (see KV ad A 1.1.27).

instance, Pānini introduces some substitutes for the nominative plural (A 7.1.17 jasah śi), the dative singular (A 7.1.14 sarvanāmnah smai),⁴ the ablative singular and the locative singular (A 7.1.15 *nasinvoh* smātsminau),⁵ and the genitive plural (A 7.1.52 āmi sarvanāmnah sut).⁶

The rule A 7.1.17 *jasah śī* prescribes the replacement of the affix Jas with the substitute $S\overline{i}$ (nom. pl.). This is a complete replacement because of aphorism A 1.1.55 anekālśit sarvasya that teaches the total replacement of the substituendum by an *anekāl* or a *Śit* substitute. For this reason, sarva- + Ias becomes sarva- + $S\bar{i}$. After replacing the marker \acute{S} with *lopa* (i.e. 'zero-replacement').⁷ the final vowel of sarvaand the remaining \overline{i} of the affix $S\overline{i}$ are joined in a *guna*-sandhi⁸ and hence the result is the form *sarve* for the nominative plural.

The M does not analyse specifically rule A 7.1.17. The Kāśikāvrttī (KV), instead, paraphrases the *sūtra* and gives some examples of its application, such as sarve (sarva- + $S\bar{i}$), visve (visva- + $S\bar{i}$), ve $(yad + S\overline{i})$, ke $(kim + S\overline{i})$, te $(tad + S\overline{i})$. Following the authoritative exposition provided by the main commentaries, the other works explain $S\bar{i}$ in two different ways, according to their interpretation of rule A 1.1.55 anekālśit sarvasya. The Rūpāvatāra (R) and the *Prakriyākaumudī* (PK) focus on the fact that $S\bar{i}$ is marked with $S\bar{i}$, while all the other *kaumudis* beginning with the SK highlight that it is an item consisting of more than one phoneme, as shown in section 2. Nevertheless, it is worthy to note that both these hypotheses have already been put forward by the M ad A 1.1.55.

Since the commentaries to the PK tend to follow what was previously written in the root text (see below footnote 13), an in-depth analysis of the SK commentary ad A 7.1.17 will lead the research towards new horizons; in fact, after qualifying $\delta \bar{i}$ as *anekāl* "(an item) consisting of more than one phoneme", Bhattoji Diksita explains why this substitute is different from other substitutes and therefore he guotes the paribhāsā "nānubandhakrtam anekāltvam". The translation

⁴ A 7.1.14 sarvanāmnah smai [angasya #6.4.1 atah #9 neh #14]: "smai replaces Ne, when it occurs after the pre-affixal base consisting of a pronominal stem ending in the short vowel -a".

⁵ A 7.1.15 nasinyoh smātsminau [angasya #6.4.1 atah #9 sarvanāmnah #14]: "smāt and smin replace NasI and Ni, when they occur after the pre-affixal base consisting of a pronominal stem ending in the short vowel -a''.

⁶ A 7.1.52 āmi sarvanāmnah sut [angasya #6.4.1 #āt 50]: "suŢ is inserted at the head of $\bar{a}m$, when it occurs after the pre-affixal base consisting of a pronominal stem ending in the phoneme a".

⁷ Rule A 1.3.8 laśaky ataddhite designates the initial L, Ś and KU of affixes other than taddhita as it when in upadeśa, followed by the rule A 1.3.9 tasya lopa that prescribes the zero-replacement (lopa) of that (it), i.e. of the marker(s).

Rule A 6.1.87 *ād gunah* prescribes a *guna*-replacement of both, a vowel which follows a and the a which precedes that vowel, in continuous utterance (samhitā). In this specific case, the final -a of sarva- and the following \overline{i} of $S\overline{i}$ are replaced by the guna-vowel e.

and comment to this *paribhāṣā* are worth noting because there is a list of substitutes (i.e. $D\bar{a}di$ list) that work in the same way as $S\bar{i}$. After an analysis of these affixes in section 3, the research will move back to the M in section 4 to demonstrate that Bhaṭṭoji Dīkṣita did not abandon the tradition of Pāṇini's grammar.

All the previous sections will lead to general conclusions on the SK and its main sources as it is important to demonstrate that Bhaṭṭoji Dīkṣita merely re-interprets the tradition in a fresh manner, whether it comes from the M of Patañjali or from the vt. of Kātyāyana. In particular, the present proposal is to outline the main feature of the problem here tackled with the aim of understanding if someone adopted this specific substitution scheme before the SK.

2 The Commentarial History of A 7.1.17 jasaḥ śī

As already anticipated, the M does not analyse A 7.1.17, while the KV paraphrases this *sūtra* and gives some examples of its application. However, KV *ad* A 1.1.55 provides an example for *Śit*, namely A 7.1.20 *jaśsasoḥ śiḥ*, that is relevant to understand the position of the work on the substitute *Śī*. In fact, since *Śi* is considered as *Śit* by the KV, it is possible to understand *Śī* in the same manner.⁹ It is important to consider that other commentaries such as the R and the PK agree with the KV and teach that the substitute *Śī* replaces the whole affix *Jas* because the phoneme *Ś* of *Śī* is a marker (*it*).

R ad A 7.1.17: śakāras sarvādeśārthaḥ ananekāltvāt |¹⁰ guṇaḥ; sarve |

The phoneme \hat{S} [of $\hat{S}\bar{\imath}$] has the aim of a total replacement [of *Jas*], because it (i.e. $\hat{S}\bar{\imath}$) does not consist of more than one phoneme. [According to aphorism A 6.1.87 $\bar{a}d$ guṇaḥ,]¹¹ there is a guṇa-

11 A 6.1.87 *ād guņa*ḥ [*sa*mhitāyām #72 *aci* #77 *eka*ḥ pūrvaparayoḥ #84]: "there is a *guņa*-replacement of both, a vowel which follows *a* and the *a* which precedes that vowel, in continuous utterance (*sa*mhitā)".

⁹ In fact, the KV ad A 1.1.55 reads śit khalv api - jaśśasoń śiń (A 7.1.20). kundāni tişthanti, kundāni paśya.

¹⁰ This passage seems to be an extension of *Nyāsa* on KV *ad* A 7.1.17: *śakāras sarvādešārthaħ*. *asati tasmin ādeħ parasya iti vacanād akāramātrasya syāt*, where Jinendrabuddhi already anticipated that "the phoneme Ś [of Śī] has the aim of a total replacement [of *Jas*]. If [Ś] did not occur there, in accordance with rule A 1.1.54 *ādeħ parasya*, [*i*] will only replace the phoneme *a* of *Jas* (i.e. the initial phoneme of the substituendum)". Nevertheless, *Nyāsa* on KV *ad* A 1.1.55 remarks that *Ś*ī indeed cannot be considered as *anekāl: śitaħ śakārānubandhenānekaltve'pi śid iti prthakkaraŋam nānubandhakṛtam anekaltvam iti jñāpanārtham*, that is, "even though an item marked with Ś consists of more than one phoneme because of the marker Ś, *śit* (in rule A 1.1.55) serves as a clue for the *paribhāṣā* – *nānubandhakṛtam anekāltvam*" (see section 3 below). Many thanks are due to an anonymous reviewer, who drew my attention on this source.

replacement [of the remaining \bar{i} of $S\bar{i}$ and the final -*a* of sarva- in continuous utterance]; [therefore, the final form is] sarve (nom. pl.).

The R defines the phoneme \hat{S} of \hat{Si} as having the aim of a total replacement of the affix Jas: it is evident that the R considers \hat{Si} as "(an item) having the marker \hat{S} (\hat{Sit})", and this would be sufficient to state that the replacement concerns the whole affix Jas; however, the author specifies that the substitute "does not consist of more than one phoneme" (an-anekāltvāt), clearly referring to paribhāṣā "nānubandhakṛtam anekāltvam". In fact, the paribhāṣā just mentioned teaches "the status of consisting of more than one phoneme is not determined by the anubandhas".

Once the substitute $S\bar{i}$ is interpreted as "(an item) having the marker S(Sit)", the derivation of *sarve* (nom. pl.) occurs as follows: the phoneme S is zero-replaced (according to A 1.3.9 *tasya lopaḥ "lopa* replaces it"); subsequently, there is the *guṇa*-replacement of the remaining \bar{i} of $S\bar{i}$ and the final -*a* of *sarva*- (A 6.1.87 $\bar{a}d$ *guṇaḥ* prescribing a *guṇa*-replacement of both, a vowel which follows *a* and the *a* which precedes that vowel in continuous utterance). Even more schematically than the R, the PK, which is the first commentary to be entitled as *kaumudī*,¹² defines the phoneme S as a marker (*it*) and, without considering the process of zero-replacement (*lopa*) and the *guṇa*-sandhi in -*e*, shows the final form of the nom. pl. *sarve*.

PK ad A 7.1.17: *śa it* | *sarve* |

 \acute{S} is a marker (*it*). [Therefore, the final form is] *sarve* (nom. pl.).¹³

On the other hand, all the *kaumudīs* beginning with the SK believe that δi is a substitute with more than one phoneme (*an-ekāl*) and, for

¹² The PK is basically the source of Bhaṭtoji Dīkṣita for what concerns the order of Pāṇini's rules presented in this section and the typology of the commentary chosen, i.e. 'an elucidation'. The word *kaumudī* is metaphorically used like other words of similar import (cf. *candrikā*) in the title of grammatical commentaries and other explanatory works to imply that the book so designated throws much light on the subject of which it treats, e.g. *padārtha-k*°, *prakriyā-k*°, *laghu-k*°, *vaiṣamya-k*°, *siddhānta-k*°.

¹³ In order to understand if the PK (fourteenth-fifteenth century) played a role in suggesting the SK change of perspective (sixteenth-seventeenth century), some of the most important commentaries to the PK have been here examined. In particular, the *Prakāśa* by Śeşakṛṣṇa and the *Prasāda* by Vițthala (sixteenth century) are the only two commentaries that the Author of the present research has been able to analyse, since all the other works are generally unavailable. However, the *Prakāśa* and the *Prasāda* on PK ad A 7.1.17 quote the exact same words as the PK: *śa it. sarve. "Ś* is a marker (*it*). [Therefore, the final form is] *sarve* (nom. pl.)". This is the reason why, in this specific situation, the PK cannot be considered as the source of SK reasoning. Note that the mentioned dates follow Coward, Kunjunni Raja 1990, 215.

this reason, it replaces the entire *Jas.* Bhațțoji Dīkșita provides an explanation of why \dot{si} should be understood in a different way; however, since the SK is often quite cryptic, it is necessary to wait for modern commentaries to grasp the point.

SK ad A 7.1.17: anekāltvāt sarvādešaḥ |¹⁴ na cārvaṇas tŗ ityādav iva nānubandhakṛtam anekāltvam iti vācyam | sarvādešatvāt prāg itsaṃjñāyā evābhāvāt | sarve |

There is a total replacement [of *Jas*], because [the substitute $\delta \bar{i}$] consists of more than one phoneme. And it is not like the substitute $t\bar{R}$ which replaces [the final -n] of *arvan* (see A 6.4.127)¹⁵ etc. – it must be taught that the characteristic of having more than one phoneme is not determined by the *anubhandas* (see *paribhāṣā* in section 3 below) – since the designation as a marker (*it*) does not become applicable [to the $\delta in \delta \bar{i}$] before the total replacement.¹⁶ [Therefore, the final form is] *sarve* (nom. pl.).

As is well known, Varadāraja (seventeenth century) composed three different *kaumud*īs in order to further simplify the main work of Bhaṭtoji Dīkṣita (sixteenth-seventeenth century). These commentaries abridge the SK by selecting only the most useful aphorisms of Pāṇini's grammar, and the outcome is the composition of three works of different lengths: the *Madhyasiddhāntakaumudī* (MSK), which is considered a medium version, the *Laghusiddhāntakaumudī* (LSK), a brief version, and the *Sārasiddhāntakaumudī* (SSK), a supershort version.

MSK and LSK ad A 7.1.17: anekāltvāt sarvādeśaķ | sarve |

¹⁴ It is evident that Bhaţtoji Dīkşita presents this new way of operating among different sūtras as something established. In fact, both the *Praudhamanoramā* by Bhaţtoji Dīkşita himself and the *Tattvabodhinī* by Jñānendra Sarasvatī (contemporary of Bhaţtoji Dīkşita) comment anekāltvāt as na tu śitvād iti bhāvaħ "the idea is [that śī is anekāl] 'because [the substitute śī] is not indeed endowed with the marker Ś (Śit)''; moreover, all the following kaumudīs endorse the SK approach and just mention anekāltvāt sarvādeśaħ as the reason why the substitute śī should replace the entire affix Jas. The BSK is the only kaumudī that goes deeper in explaining all the different steps required to obtain the qualification of the substitute śī as anekāl "(an item) consisting of more than one phoneme".

¹⁵ Rule A 6.4.127 prescribes the substitution of the final sound of *arvan* with tR, except in the nominative singular (sU) or when the word is joined with the negative particle $(na\tilde{N})$. According to $s\bar{u}tra$ A 1.1.52, which is here the general rule, a substitute replaces the final phoneme of the substituendum. On the other hand, $S\bar{i}$ replaces the whole $sth\bar{a}nin$ in accordance with the aphorism A 1.1.55, which prescribes the total replacement of the substituendum by an *anekāl* or by a Sit substitute.

¹⁶ As regard the stage in the derivation in which \dot{S} is designated as a marker (*it*), see in particular section 4.

There is a total replacement [of *Jas*], because [the substitute δi] consists of more than one phoneme. [Therefore, the final form is] *sarve* (nom. pl.).

SSK ad A 7.1.17: sarve |

[The final form is] sarve (nom. pl.).

It is evident that after several centuries, the perspective concerning this affixation has changed and this is now quite the opposite. The turning point plausibly depends on the *prakriyā* perspective, as *na-vya vyākaraṇa* commentaries give great importance to the derivation of single words step by step. The SK explains its interpretation of $ś\bar{i}$ as *anekāl* by stating that, prior to the total replacement of *Jas* by the substitute $ś\bar{i}$, the ś of $ś\bar{i}$ cannot be defined as *it.*¹⁷

All the other *kaumudīs* adopt the SK reading by simply quoting *anekāltvāt sarvādeśa*h. Instead, Jyoti Svarūpa Miśra, the author of a contemporary Hindī commentary (1991) entitled *Bālasiddhāntakaumudī* (BSK), explains this choice by dividing the substitution at stake into different passages:

BSK ad A 7.1.17:

1) [anekāla hone se śī ādeśa sampūrņā jas ke sthāna meṃ hotā hai sarva śī |

As the substitute \dot{si} consists of more than one phoneme, it takes the place of the whole *Jas.* Thus, sarva- + $s\bar{i}$ (nom. pl.).

According to the BSK, the problem is that the substitute *s*₁ is presented by rule A 7.1.17 *jasaḥ ś*₁; nevertheless, the designation of *pratyaya*

¹⁷ A comparable reasoning already occurs in the Padamañjarī ad A 1.1.55: śidgrahanam kim artham? "jasah śī" sarvasya yathā syāt, anekāl ity eva bhavisyati, śakāre lupte nānekāl, ānupūrvyāt siddham. yadāyam sarvādešas tadā pratyayah, yadā pratyayas tadetsamjñā, yadetsamjñā tadā lopah, yadā lopas tadaikāl tad iha sarvādešatvam antarena naikāltvam upapadyate, that is, "which is the purpose of the mention of Śit '(an item) having the marker \dot{S} '? In order to obtain the total replacement (*sarvasya*) in the rule 'jasaḥ śī' (A 7.1.17), [śī] will be indeed anekāl '(an item) consisting of more than one phoneme', and after the zero-replacement of the phoneme \dot{s} , it will consist of no more than one phoneme (nānekāl), this is obtained according to the order of application [of grammatical operations]. When there is a complete substitution, then [Sican be designated] as an affix (pratyaya); when it is an affix, then [its initial phoneme \dot{S}] can be designated as a marker (*it*); when it is designated as a marker, then its zeroreplacement (lopa) occurs; when the zero-replacement occurs, then [Si] consists of a single phoneme ($ek\bar{a}l$); therefore, here the characteristic of consisting of a single phoneme (ekāltvam) does not take place without the total replacement (sarvādeśatvam)". Many thanks are due to an anonymous reviewer, who drew my attention on this source.

'affix' is given by A 3.1.1 pratyayah and it extends up to the end of the fifth $adhy\bar{a}ya$ (till A 5.4.160 *nispravāniś ca*). This is why, in the beginning, *sī* cannot be qualified as *pratyaya*. However, if *sī* is not a *pratyaya*, its initial phoneme *s* cannot be considered as *anubandha* (i.e. it is not qualified as *it*); if *s* does not receive the qualification of *it*, there is not its zero-replacement. In conclusion, the substitute *sī* should be understood as *anekāl* and thus substituted to the whole affix *Jas*.

2) sthānivadbhāva se śī meṃ pratyaya dharma mānakara laśakvataddhite se śakāra kī itsaṃjñā |

In agreement with A 1.1.56 *sthānivadādeśo 'nalvidhau*,¹⁸ $Ś\bar{i}$ has the property of being a *pratyaya*; while, as stated by A 1.3.8 *laśakv ataddhite*,¹⁹ the technical term *it* denotes Ś.

Since the substitute \hat{si} is here considered as "(an item) consisting of more than one phoneme" (anekāl), it can now take the place of the whole affix Jas; in fact, sūtra A 1.1.55 anekālšit sarvasya teaches the replacement of the whole substituendum by an anekāl or a Šit substitute. Moreover, A 1.1.56 sthānivadādešo 'nalvidhau states that a substitute should be treated like the original and, hence, Si takes the property of being a pratyaya. The phoneme \hat{S} is termed *it*, the moment it acquires the qualification of pratyaya and, consequently, there is the lopa-replacement of \hat{S} , according to A 1.3.9 tasya lopaḥ "lopa replaces it":

3) tasya lopaḥ se usakā lopa] sarva ī |

In accordance with *tasya lopa*^h (A 1.3.9),²⁰ *lopa* replaces that (i.e. the phoneme \hat{S}). Thus, *sarva*⁻ + $\bar{\imath}$.

In conclusion, \hat{S} is zero-replaced; furthermore, there is the *guṇa*-replacement of the remaining \bar{i} of $\hat{S}\bar{i}$ and the final -*a* of *sarva*- to obtain the final form of the nominative plural *sarve*.

4) guṇaḥ | sarve |

¹⁸ A 1.1.56 *sthānivadādešo 'nalvidhau*: "the substitute (*ādeša*) is treated like the substituendum (*sthānin*) except with regard to an operation that is relative to an original phoneme (aL)".

¹⁹ A 1.3.8 laśakv ataddhite [pratyayasya #6, \bar{a} diḥ #5, upadeśe, it #2]: "the initial L, Ś and KU of affixes other than taddhita (i.e. original enunciation) are designated as it in upadeśa".

²⁰ For a detailed analysis of rules A 1.3.8 *laśakv ataddhite* and A 1.3.9 *tasya lopa*^h, see footnote 7.

[According to A 6.1.87 $\bar{a}d$ guṇaḥ,]²¹ there is a guṇa-replacement [of the remaining $\bar{\imath}$ of $S\bar{\imath}$ and the final -*a* of sarva- in continuous utterance]. [Therefore, the final form is] sarve.²²

According to the kaumudīs, $S\bar{i}$ can receive the definition of pratyaya only through stānivadbhāva, that is, on account of its being the substitute of the affix Jas. Assignment of the term pratyaya facilitates assignment of the term it to S by means of rule A 1.3.8 laśakv ataddhite. This, in turn, facilitates deletion of S by sūtra A 1.3.9 tasya lopaḥ. For this reason, a total replacement of Jas by $S\bar{i}$ is not accomplished because of S as an it. It is, instead, accomplished because it consists of more than one phoneme (anekāl).

3 Paribhāṣā and Traditional Examples on (an)ekāltvam

It is important to note that the SK provides another example concerning a final replacement which is completely different from A 7.1.17 *jasaḥ śī*. In particular, it deals with the substitute *t*R taught by Pāṇini in rule A 6.4.127 *arvaṇas tr asāv anañaḥ*, which prescribes the replacement of the final phoneme of the nominal stem *arvan*- with the substitute *t*R, except in the nominative singular (*sU*) or when it is joined with the negative particle (*naÑ*). In accordance with A 1.1.52 *alo 'ntyasya* [*saṣṭḥī* #49], "a substitute replaces the final phoneme (*aL*) of the substituendum prescribed with a genitive form". For instance, the final phoneme -*n* of *arvan*- is replaced by the substitute *t*R before *au* (nom./acc. du.); thus, *arvat*R + *au*. The marker R is zero-replaced; afterwards, the increment *nµM* is inserted after the last vowel of *arvan*- (A 7.1.70 *ugidacām sarvanāmasthāne 'dhātoḥ*),²³ to obtain the final form *arvantau*. The derivation of the nominative dual (and the accusative dual) of *arvan*- can be summarised as follow:

arvan + au (A 4.1.2 svaujas... nyossup)24

24 A 4.1.2 svaujasamauţchaşţābhyāmbhisnebhyāmbhyasnasibhyāmbhyasnasosāmnyoss up introduces the nominal affixes in the following way: prathamā vibhakti: sU (singular),

²¹ See footnote 8.

²² It is important to note that this *prakriyā* approach was in part anticipated by the *Bālamanoramā* on SK *ad* A 7.1.17 (including, for instance, the rule A 1.3.8 *laśakv atad-dhite*). However, it is evident that the BSK results much more detailed in explaining Bhaţţoji's choice once for all.

²³ A 7.1.70 *ugidacām sarvanāmasthāne 'dhātoḥ* [*aṅgasya* #6.4.1 *num* #58]: "the increment *nµM* is inserted after the last vowel (see A 1.1.47) of a pre-affixal base with *uK* (= *u*, *r*, *l*) as a marker (*it*), excluding verbal stems (*adhātoḥ*), but including the verbal stem *ac*- before a strong ending (*sarvanāmasthāne*)". In fact, according to aphorism A 1.1.47 *midaco 'ntyātparaḥ*, an increment marked with *M* (such as *nµM*) is inserted after the last vowel of the stem to which it is added.

arvan > arvatŖ (A 6.4.127 arvaņas tr asāv anañaḥ)

arvatR + au (A 1.1.52 alo 'ntyasya)

arvat + au (A 1.3.9 tasya lopah)

arvantau (A 7.1.70 ugidacām sarvanāmasthāne 'dhātoh: <u>arva</u>- + n<u>u</u>M + \underline{t} + au).

On the other hand, the substitute $S\bar{i}$ replaces the whole *sthānin* in accordance with aphorism A 1.1.55 *anekālśit sarvasya*, which prescribes the total replacement of the substituendum by an *anekāl* or by a *Śit* substitute.²⁵ Therefore, the derivation of the nominative plural of *sarva*- is as follows:

sarva + Jas (A 4.1.2 svaujas...ňyossup) Jas > Śī (A 7.1.17 jasaḥ śī) sarva + Śī (A 1.1.55 anekālśit sarvasya) sarve (A 6.1.87 ād guṇaḥ: guṇa $a + \bar{i} > e$).

It is worthy to note that the example of the derivation of *arvantau* is included in the traditional explanation of the above-mentioned *paribhāṣā*.²⁶ This is the proof that the substitute tR cannot be *anekāl* because the phoneme R is a common marker, since only the final phoneme of *arvan* has to be replaced by t (to obtain *arvat* $R + n\underline{u}M > arvant$ -). In other words, the *sarvādeśa* is excluded.

By contrast, there are peculiar cases in which sarvadesa applies (according to rule A 1.1.55), despite the paribhasa. For instance, in paribhasa VI of Sīradeva, the substitute NaL replacing miP and tiPin the perfect is mentioned. In fact, according to this paribhasa, the substitute NaL should consist of only one phoneme because, it being an affix, its initial phoneme N and its final phoneme L are designated as *anubhandas* and zero-replaced. Consequently, NaL should replace only the final i of miP and tiP. Nevertheless, NaL is substituted for the whole miP and tiP because its phoneme a is considered to

au (dual), Jas (plural); dvitīyā: am, auŢ, Śas; tṛtīyā: Ṭā, bhyām, bhis; caturthī: Ņe, bhyām, bhyas; pañcamī: ŅasI, bhyām, bhyas; ṣaṣṭhī: Ņas, os, ām; saptamī: Ņi, os, suP.

²⁵ The phoneme \dot{s} of \dot{si} cannot be designated as *it* before replacing *Jas*, as explained above.

²⁶ See paribhāşā VI in Sīradeva (Brhatparibhāşāvrtti) and in Nāgeśa (Paribhāşenduśekhara) and paribhāşā IX in Vyādi (Wujastyk 1993).

be a contraction from a + a, thus consisting of more than one phoneme (*anekāl*):²⁷

bhū + tiP (A 3.4.78 tiptasjhi...idvahimahin)²⁸

tiP > NaL (A 3.4.82 parasmaipadānām ņalatususthalathusaņalvamāh)

 $bh\bar{u} + NaL$ (A 1.1.55 anekālśit sarvasya: a is anekāl due to a + a)

 $bh\bar{u} + a$ (A 1.3.9 tasya lopah)

babhūva (because of the increment $v\mu K$ and the reduplication prescribed for the perfect).²⁹

In *paribhāṣā* VI of Nāgeśa, the *Dādi* substitutes (i.e. $D\bar{a}$ etc.)³⁰ are also mentioned as an instance of *sarvādeśa* based on the order in which the grammatical operations take place, namely, the substitution occurs when the *d* of the substitute $d\bar{a}$ is not yet designated as a

30 Note that "the ādi of Dādi is intended to include Śī in P. VII.1.17, Śe in P VII.1.39 etc." (Kielhorn 1960, 34 fn. 1)

²⁷ The substitute NaL is introduced for the first time by rule A 3.4.82 parasmaipadānām nalatususthalathusaṇalvamāḥ [liṭaḥ #81]: "the substitutes NaL, atus, us, thaL, athus, a, NaL, va and ma respectively replace (the nine) parasmpaipada endings (tiP, tas, jhi, siP, thas, tha, miP, vas and mas) of IIT (i.e. perfect tense)". The endings of IIT are introduced after a verbal root, when its action belongs to the past, excluding the current day, and is unperceived (A 3.2.115 parokse lit).

²⁸ A 3.4.78 *tiptasjhisipthasthamibvasmastātāmjhathāsāthāmdhvamidvahimahin* introduces the verbal endings, as follows:

parasmaipada – 3rd person: tiP (singular), tas (dual), jhi (plural); 2nd person: siP, thas, tha; 1st person: miP, vas, mas.

ātmanepada - 3rd person: ta, ātām, jha, 2nd person: thās, āthām, dhvam, 1st person: iŢ, vahi, mahiŇ.

²⁹ The 3rd person singular of the perfect tense of $bh\bar{u}$ - 'to be' can be derived as follows: starting with the form $bh\bar{u}$ - tiP (A 3.4.78), tiP is substituted by NaL (A 3.4.82) and this is a complete replacement (A 1.1.55); after the zero-replacement of the initial phoneme N and the final phoneme L (A 1.3.9), we obtain the form $bh\bar{u}$ +a. The augment $v\bar{u}K$ is inserted after the verbal stem $bh\bar{u}$ -, when a IIT affix beginning with a vowel follows (A 6.4.88 bhuvo vuglunilitoh): thus, $bh\bar{u}v + a$; moreover, the verbal root is reduplicated by means of A 6.1.8 $liti dh\bar{a}tor anabhy\bar{a}sasya$: hence, $bh\bar{u}v + bh\bar{u}v + a$. However, a long list of rules concerning the reduplication regulates the changes in the form seen immediately above: the first $bh\bar{u}v$ is designated as $abhy\bar{a}sa$ (A 6.1.4 $p\bar{u}rvo$ ' $bhy\bar{a}sah$), and only its first consonant remains (i.e. bh), all the other are dropped (A 7.4.60 $hal\bar{a}dh\bar{i}h$ śeşah): thus, $bh\bar{u} + bh\bar{u}v + a$. In addition, the vowel of the $abhy\bar{a}sa$ is shortened (A 7.4.59 hrasvah) and the resulting u of the $abhy\bar{a}sa$ is then changed in a when a IIT affix follows (A 7.4.73 bhavater ah): thus, $bh\bar{u} + bh\bar{u}v + a$. Finally, the voiced consonant of the $abhy\bar{a}sa$ (i.e. bh) is changed into a voiced unaspirated consonant (i.e. b) by means of A 8.4.54 $abhy\bar{a}se arc a:$ thus, babhuva.

marker.³¹ The substitute $d\bar{a}$ is taught in the place of the affix tiP in the periphrastic future.³² $d\bar{a}$ is not interpreted as an affix at first, therefore its initial phonemes d cannot be zero-replaced as every other anubandha can. Only considering $d\bar{a}$ as "an (item) consisting of more than one phoneme" (anekāl), it is possible to replace the whole original affix: in this way, the substitute $D\bar{a}$ can be understood as an affix and its initial phoneme *D*, being *anubandha*, can be zero-replaced:

 $bh\bar{u} + tiP$ (A 3.4.78 tiptasihi...idvahimahin)

 $tiP > D\bar{a}$ (A 2.4.85 lutah prathamasya dāraurasah)

 $bh\bar{u} + D\bar{a}$ (A 1.1.55 anekālśit sarvasva: \bar{a} is anekāl because $d\bar{a}$ is not an affix)

bhavitās + $D\bar{a}$ (because of the insertion of affix $t\bar{a}s$ before $lU\dot{N}$ and the augment iT)

bhavit $\bar{a}s + \bar{a}$ (A 1.3.9 tasya lopah)

bhavitā (because of the zero-replacement of the final -ās of bhavās).33

³¹ Nāgeśa's paribhāṣā VI reads dādiviśaye tu sarvādeśatvam vinānubandhatvasyaivābhāvenānupūrvyāt siddham, that is, "but in the domain of the Dādi [substitutes] (i.e. Da etc.), the complete replacement is well established without the absence of the anubandhas (i.e. without the application of the paribhāṣā and, therefore, because of the anekāltvam of $d\bar{a}$) on the basis of the order [of the rules' application]". It is notable that Vyādi does not show any of these examples.

³² A 2.4.85 lutah prathamasya dāraurasah: "Dā, rau and ras respectively replace the third person endings (*tiP*, *tas*, *jhi*) of *lUT* (i.e. periphrastic future)". The endings of *lUT* are introduced after a verbal root, when its action is to be denoted in the future, which does not belong to the current day (A 3.3.15 anadyatane lut).

³³ The 3rd person singular of the periphrastic future of $bh\bar{u}$ - 'to be' is derived in the following way: starting with the form $bh\bar{u}$ + tiP (A 3.4.78), tiP is substituted by $D\bar{a}$ (A 2.4.85); after the complete replacement (A 1.1.55), the affix tāsl is introduced after a verbal stem, when a IUT affix follows (A 3.1.33 syatāsī lŗluţoħ): thus, $bh\bar{u} + t\bar{a}s + D\bar{a}$. Subsequently, the affix tas is designated as ardhadhatuka (A 3.4.114 ardhadhatukam śeşah) and, for this reason, the augment iT is inserted before it (A 7.2.35 ārdhadhātukasyed valādeh): thus, $bh\bar{u} + iT + t\bar{a}s + D\bar{a}$. Moreover, the final \bar{u} of $bh\bar{u}$ is replaced by the guna vowel o by means of A 7.3.84 sārvadhātukārdhadhātukayoh and, because of the sandhi-phenomenon, the guna vowel o is substituted by av in accordance with A 6.1.78 eco 'yavāyāvah: thus, bhavitās + $D\bar{a}$. The D of $D\bar{a}$ is zero-replaced (A 1.3.9): thus, bhavitās + ā. Finally, the syllable beginning with the last vowel (TI) of bhavitās is zero-replaced, when an affix having the marker D follows (A 6.4.143 teh): thus, bhavitā.

4 Coming Back to Kātyāyana and Patañjali

This explanation of the behaviour of the substitute $D\bar{a}$ stems indeed from the first commentaries on rule A 2.4.85 *luțați prathamasya dāraurasați "Dā, rau* and *ras* are substituted for the third person endings of *lUȚ*". It is evident that this is a classic example of an aphorism that prescribes a substitution: the substitutes $D\bar{a}$ (sing.), *rau* (du.), and *ras* (pl.) are the elements that replace the affixes of the 3rd person singular (i.e. *tiP*, *tas*, *jhi*) of the periphrastic future (*lUŢ*). According to the general pattern of substitution, the substitutes are linked together in a *dvandva* compound which is inflected in the nominative plural; they replace the affixes that are generically described as *prathama-* "3rd person endings" and, since this term represents the substituendum, it is inflected in the genitive singular; moreover, this happens when the action is presented in *lUŢ*, that is, in the periphrastic future.

The replacement of the whole tiP by the substitute $D\bar{a}$ was already a problem for Kātyāyana; in fact, he wrote several vt.s to rule A 2.4.85, trying to explain the reasons behind this substitution:

MI.501 l. 1 vt. 4 ad A 2.4.85: dāvikārasya śitkaraņam sarvādešārtham

There is need of the marker \hat{S} for the $\bar{a}de\dot{s}a \ D\bar{a}$ (i.e. it will become $D\bar{a}\hat{S}$) in order to obtain the replacement of the whole substituendum.

The first hypothesis given by Kātyāyana is to add the phoneme ś to $D\bar{a}$ to transform it in $D\bar{a}S$, therefore considered as Sit "(an item) having the marker S". As seen from the beginning of this article, the total replacement is justified for substitutes *anekāl* "(items) consisting of more than one phoneme" or Sit "(items) having the marker S" (according to rule A 1.1.55 *anekālšit sarvasya*). Therefore, since the interpretation of the substitute $D\bar{a}$ as *anekāl* is not possible because, once the marker D is zero-replaced, the substitute \bar{a} consists of one phoneme, the idea is to transform it into a Sit substitute.³⁴ The risk is that, if the total replacement is not achieved, $D\bar{a}$ replaces only the final phoneme of the substituendum by means of A 1.1.52 *alo 'ntyasya*.

M I.501 l. 9 vt. 6 ad A 2.4.85: siddham alo 'ntyavikārāt

The object is achieved because of the substitution of the final phoneme.

³⁴ Nevertheless, vt. 5 *ad* A 2.4.85 *nighātaprasangas tu* reveals that adding the phoneme \dot{s} to the substitute $D\bar{a}$ is useless, because there is the risk of losing the accent.

The second hypothesis is that the object can be achieved even if the $\bar{a}desa$ replaces the final phoneme of the substituendum (tiP), in accordance with the risk presented at the end of the first hypothesis. According to vt. 6, the substitution is achieved through the zero-replacement (lopa) of the syllable beginning with the last vowel (TI) of the stem before a substitute having the marker D (Dit), in accordance with rule A 6.4.143 teh: thus, $bhavit\bar{a}s + t + \bar{a} > bhavit \emptyset + \bar{a} > bhavit \bar{a}$. It is important to underline that this rule is involved in any case in the process of derivation of the 3rd person singular of the periphrastic future, in particular in the last passage: $bhavit\bar{a}s + \bar{a} > bhavit \emptyset + \bar{a} > bha$

M I.501 l. 15 vt. 8 ad A 2.4.85: anitvād vā

Or on account of its not acquiring the qualification of *it*.

The third hypothesis is the most interesting because, on the basis of the explanation given by Patañjali to vt. 8 *ad* A 2.4.85, Bhaṭtoji Dīkṣita comments rule A 7.1.17 *jasaḥ śī*, defining substitute *śī* as *anekāl*. In fact, while discussing the risk of the second hypothesis, it becomes evident that the substitute replacing the final phoneme of an affix cannot itself be designated as an affix. This conclusion of Patañjali triggers a series of chain reactions which are schematically illustrated as follows:

- 1. that which replaces the final phoneme of an affix cannot itself be an affix:
- 2. if *dā* is not an affix, its initial phoneme *d* cannot be qualified as *anubandha*;
- 3. if the phoneme *d* is not qualified as *anubandha*, it cannot be zero-replaced;
- 4. if the phoneme d is not zero-replaced, $d\bar{a}$ should be considered *anekāl*

> there is the replacement of the whole substituendum based on its being *anekāl*;

- 5. if there is a complete substitution, $D\bar{a}$ can be considered an affix;
- 6. if *Dā* is an affix, its initial phoneme *D* can be qualified as *anubandha*;

³⁵ The derivation of the final form *bhavitā* (3rd pers. sing. of the periphrastic future) by only replacing the final phoneme of the substituendum (*tiP*) with the substitute $D\bar{a}$ can be thus demonstrated. In fact, Kātyāyana accepts this hypothesis prescribing the *lopa* of the remaining *t* of *tiP* (i.e. *bhavitās* + $t + \bar{a}$) in vt. 7 *ad* A 2.4.85 *diti ter lopā lopah*. However, even if this solution is accepted by the author of the vt.s, he propose set wo other vt.s to explain the complete substitution; in particular, vt. 8 *ad* A 2.4.85 *anitvād* vā is the most interesting for the scope of this research and is analysed below.

7. if the phoneme D is qualified as *anubandha*, it can be zero-replaced.³⁶

For the sake of completeness, one last vt. explaining the total replacement of tiP with $D\bar{a}$ is illustrated:

M I.501 l. 20 vt. 9 ad A 2.4.85: praślistanirdeśād vā

Or by obtaining it on the basis of a *praślista-nirdeśa*.

In this specific case, the phoneme D of the substitute $D\bar{a}$ can be zero-replaced, but the remaining \bar{a} is still considered as *anekāl* "(an item) consisting of more than one phoneme", as it stands for $\bar{a} + \bar{a}$.³⁷ The total replacement is thus justified by means of A 1.1.55 *anekālšit sarvasya*. What is remarkable is that this is the same process accepted for the replacement of the affix *tiP* with the substitute $N\bar{a}L$ in the perfect tense, as seen in the previous section.

This explanation of the substitution of $D\bar{a}$ is also valuable to explain the substitute $S\bar{i}$ (A 7.1.17 - see section 1 above). As already seen for the previous rule A 2.4.85, there is a general pattern of substitution that prescribes the substitute $S\bar{i}$ (in the nominative singular) in the place of the affix *Jas* (in the genitive singular). However, in M III.246 *ad* A 7.1.17, Patañjali does not mention the way in which this replacement should take place. There is only one hint to such a replacement in M I.131-132 *ad* A 1.1.55, in which Patañjali states that, if vt. 8 *ad* A 2.4.85 (i.e. *anitvād* vā) is accepted, there is no scope for ...*śit sarvasya* in rule A 1.1.55. The following scheme represents this reasoning:

- 1. that which replaces the final phoneme of an affix cannot itself be an affix:
- 2. if *śī* is not an affix, its initial phoneme *ś* cannot be qualified as *anubandha*;
- 3. if the phoneme *ś* is not qualified as *anubandha*, it cannot be zero-replaced;
- 4. if the phoneme \dot{s} is not zero-replaced, $\dot{s}\bar{\imath}$ should be considered *anekāl*

> there is the replacement of the whole substituendum based on its being *anekāl*;

5. if there is a complete substitution, $S\bar{i}$ can be considered an affix;

36 See M I.501 ll. 16-19 on vt. 8 *ad* A 2.4.85.

³⁷ This hypothesis is clearly rejected by Kielhorn (1960), who defines it as being superfluous, since he clearly approves the former (i.e. vt. 8 *anitvād* $v\bar{a}$).

- 6. if $S\bar{i}$ is an affix, its initial phoneme S can be qualified as *anubandha*;
- 7. if the phoneme \acute{S} is qualified as *anubandha*, it can be zero-replaced.

Patañjali *ad* A 1.1.55 concludes that ...*śit sarvasya* has a scope in this rule only if the *paribhāṣā "nānubandhakṛtam anekāltvam"* is taken into account. However, this explanation based on vt. 8 *ad* A 2.4.85 (i.e. *anitvād vā*) and on the relevant commentary of Patañjali is evidently the earliest source of Bhaṭṭoji Dīkṣita's interpretation of the substitute *śī* as *anekāl*.

5 Conclusion

This research on the replacement of the whole affix *Ias* by the substitute $S\overline{i}$ (A 7.1.17) shows a double historical interpretation of rule A 1.1.55: according to the M, the KV, the R and the PK, the substitute $S\bar{i}$ is endowed with the anubandha S and, for this reason, it replaces the whole affix Jas after a pronominal stem ending in the short vowel -a; all the kaumudīs beginning with the SK believe that the substitute *śī* is to be considered as *anekāl* "(an item) consisting of more than one phoneme" and that this is the only way to obtain the replacement of the entire affix Jas. Since the designation of pratyaya is given by A 3.1.1 pratyayah up to the end of the fifth adhyāya (till A 5.4.160 *nispravāniś ca*), the substitute *śī* cannot initially be gualified as a *pratyaya*. However, if $\delta \overline{i}$ is not a *pratyaya*, its initial phoneme $\delta \overline{i}$ cannot be considered as an anubandha (that is, it cannot be designated as *it*); but if *s* does not receive the qualification of *anubandha*, there is not its zero-replacement. Thus, sī should be understood as anekāl and substituted to the whole affix Jas.

The substitutes $D\bar{a}$ etc. (taking the place of tiP in the periphrastic future) work in the same manner. It is evident from vt.s on A 2.4.85 that this solution was presented for the first time by Kātyāyana, who devotes several vt.s to demonstrate that the substitute $d\bar{a}$ is ane $k\bar{a}l$, giving rise to the total replacement of the affix tiP. First of all, he suggests adding the phoneme S to the substitute $D\bar{a}$ to transform it in $D\bar{a}S$, thus considered as a Sit "(an item) having the marker S" (vt. 4); he later shows that the object can be achieved even if the substitute $D\bar{a}$ replaces only the final phoneme of the substituendum tiP (vt. 6); finally, he states that the substitute which replaces the final phoneme of an affix cannot itself be designated as affix (vt. 8). This conclusion triggers a series of chain reactions which are schematically illustrated by Patañjali as follows: that which replaces the final phoneme of an affix cannot itself be an affix; therefore, if $d\bar{a}$ is not an affix, its initial phoneme d cannot be qualified as anubandha; if the phoneme d is not qualified as *anubandha*, it cannot be zero-replaced; if the phoneme d is not zero-replaced, $d\bar{a}$ should be considered as *anekāl*; as a consequence, there is the replacement of the whole affix *tiP* by the substitute $d\bar{a}$ on its being *anekāl*; if there is a complete substitution, $P\bar{a}$ can be considered an affix; if $P\bar{a}$ is an affix, its initial phoneme Pcan be qualified as *anubandha*; if the phoneme P is qualified as *anubandha*, it can be zero-replaced.

While presenting its commentary to A 7.1.17 jasah śi, Bhattoji Diksita re-introduces this perspective according to which the substitute $\delta \bar{i}$ is to be considered as *anekāl* "(an item) consisting of more than one phoneme", and not as \dot{Sit} "(an item) having the marker \dot{S} ". It is immediately evident, after going through the several steps of the present research, that the idea of interpreting the substitute $s\bar{i}$ as anekāl comes to Bhattoji Dīksita from the vt.s. The SK re-interprets the tradition, taking position against the M and the following commentaries, and re-introducing this gualification of the substitute $S\overline{i}$. It is worth noting that this change of perspective is necessary for the SK in order to clearly explain the *prakrivā* of the final form *sarve* (nom. pl.). Moreover, since all the other *kaumudīs* are completely based on the SK, it is not difficult to understand why Varadarāja treats the substitute *śī* as *anekāl* in his three *kaumudīs*, or why a modern work such as the BSK (in the 1969) still continues to understand the total replacement of the affix *Jas* by the substitute *sī* as based on its being "(an item) consisting of more than one phoneme". All in all, it is extremely interesting that the kaumudis' tradition adopts such reading of rule A 7.1.17, even though Patañjali concludes his long discussion on Kātyāyana's vt.s in favour of the root text, thus considering Sit as a compulsory part of the wording of A 1.1.55.

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- KV = [Kāśikāvṛttī] Kāśikā. A commentary on Pāņini's Grammar by Vāmana & Jayāditya. 2 vols. Ed. by A. Sharma, K. Deshpande, and D.G. Padhye. Hyderabad: Sanskrit Academy, Osmania University, 1969-70.

- LSK = [Laghusiddhāntakaumudī] Śrīmadvaradarājabhaţţhācāryavirac itā laghusiddhāntakaumudī (sūtrāņām vārtikānām paribhāşāņām dhātūnāñca akārādikramasūcikayā pāņinīyaśikşā - gaņapāţha sārthaprayogānukramaņikā - prayogalekhanaprakāraiśca sahitā), in Haridāsa Samskrta Granthamālā, vol. 119. Ed. by S.Ś. Joshi. Vārāņasī: Caukhambā Samskrt Sīrij Āphis, 2001
- M = [Mahābhāşya] The Vyâkarana-Mahâbhâshya of Patanjali. 3 vols. Ed. by F. Kielhorn. Bombay: Government Central Book Depôt, 1880-85. Third edition, revised and furnished with additional readings, references, and selected critical notes by K.V. Abhyankar. Poona: Bhandakar Oriental Research Institute, 1962.
- MSK = [Madhyasiddhāntakaumudī] Śrīvaradarājācāryaviracitā madhyasiddhāntakaumudīsudhā indumatī samskrtahindivyākhyopetā. Ed. by S.Ś. Joshi and R.C. Jhā. Varanasi: Chowkhamba, 1960.
- Nyāsa = [Nyāsa] Kāśikavṛtti of Jayāditya-Vāmana (Along with Commentaries Vivaraṇapañcikā—Nyāsa of Jinendrabuddhi and Padamañjarī of Haradatta Miśra). 6 vols. Ed. by S. Misra. Varanasi: Ratna Publications, 1985.
- Padamañjarī [Padamañjarī] Kāśikavrtti of Jayāditya-Vāmana (Along with Commentaries Vivaraṇapañcikā—Nyāsa of Jinendrabuddhi and Padamañjarī of Haradatta Miśra). 6 vols. Ed. by S. Misra. Varanasi: Ratna Publications, 1985.
- Paribhāşāsamgraha [Paribhāşāsamgraha] Paribhāşāsamgraha (A collection of original works on Vyākaraņa Paribhāşās). Edited critically with an introduction and an index of Paribhāşās by K.V. Abhyankar. Poona: Bhandarkar Oriental Research Institute, 1967.
- Paribhāṣenduśekhara [Paribhāṣenduśekhara] The Paribhashendusekhara of Nāgojībhatta. Edited critically with the commentary Tattvādarśa of Vasudev Shastri Abhyankar by K.V. Abhyankar, pt. I. Poona: Bhandarkar Oriental Research Institute, 1962.
- PK = [Prakriyākaumudī] The Prakriyākaumudī of Rāmachandra (in two parts) with the commentary Prasāda of Viţţhala and with a critical notice of manuscripts and an exhaustive and critical introduction by K.P. Trivedi.Poona: Bhandarkar Oriental Research Institute, 1925-31. Bombay Sanskrit and Prakrit Series LXXVIII-LXXXII.
- Prakāśa [Prakāśa] Prakriyākaumudī by Rāmacandrācārya with Prakāśa by Śrīkriṣṇa. Edited with his 'Raśmi' by M. Miśra. 3 vols. of Sarasvatībhavanagranthamālā, vols. 111-13. Varanasi: Sampurnanand Sanskrit Vishvavidyalaya, 1977-80.
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- Praudhamanoramā [Praudhamanoramā] The Praudhamanoramā by M.M. Bhaţţoji Dīkshita. (Avyayībhāvānta). A Commentary upon his Siddhāntakaumudī. With its Gloss called Laghuśabdaratna by Sri Hari Dīkshita, and Śabdaratna Bhairavi Commentary by M.M. Pandit Śri Bhairava Miśra, Prabha-Notes by M.M. Śri Mādhava Sāstrī Bhandārī. Śabdaratna Pradīpaka Notes on Avyayībhāvānta Portion by Pandit Jagannātha Śastrī Paṅde. Edited with Vibha-Notes and Introduction, by Pandit Sāda Śiva Śarma Śāstrī, pt. I. Benares: The Chowkhamba Sanskrit Series Office, 1935. Kashi Sanskrit Series 58.

- R = [Rūpāvatāra] The Rūpāvatāra of Dharmakīrti. With additions and emendations for the use of college students by M. Rangacharya. 2 vols. Vol. 1: Madras: Natesan, 1916; vol. 2: The Bangalore Press, Bangalore, 1927.
- SK= [Siddhāntakaumudī] Śrībhaţţojidīkşitaviracitā vaiyākaraņasiddhāntakaumudī, paņditaśrīsabhāpatiśarmopādhyāyaviracitayā lakşmī vyākhyayopetā, śrībālakrsna-pañcolinā sampāditā. 2 vols. Ed. by B.K. Pancholi. Delhi: Motilal Banarsidass, 1966.
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