THE bahuvrīhi CompouNd BETWEEN ZEROING AND CONTRASTIVE ACCENTuation: VEdIC Sanskrit Model AND Pāṇini’S Model

ABSTRACT

L’articolo mira a sondare come il modello di composto bahuvrīhi presentato nella grammatica descrittiva di Pāṇini possa rapportarsi diacronicamente al composto bahuvrīhi attestato nel Sanscrito Vedico, tenendo in particolare considerazione quelli che sono i due requisiti secondo Pāṇini: stato tematico per tutti i costituenti e accento sul primo membro, contrattivamente assegnato rispetto ai composti determinativi. Poiché l’opera di Pāṇini si basa sulla tradizione scolastica brahmanica, anche le fonti del suo modello di bahuvrīhi devono rintracciarsi in quel contesto culturale. Il locus classicus è indraśatru, che segna così l’inizio di un processo di regolarizzazione linguistica applicata al composto bahuvrīhi. Il medesimo composto indraśatru, discusso nell’ambito scolastico brahmanico, è citato in un inno rigvedico tardo (RV 1.32.6; 1.32.10), impiegato con una significativa valenza poetica. Perciò, i due tratti caratteristici pāṇiniani del composto bahuvrīhi risultano derivare da una particolare commistione di linguaggio poetico ed esegesi linguistica.

This article aims to explore how Pāṇini’s model of the bahuvrīhi compound may be diachronically correlated to the bahuvrīhi compound as attested in the Vedic Sanskrit language, thus accounting for the two Pāṇinian requisites: zero-ending for all the constituents and accentuation on the first constituent, contrastively employed in relation to the determinative compounds. Since Pāṇini’s work is based on the Brahmanical scholarly tradition, the sources of his bahuvrīhi model are also to be found in the Brahmanical scholarly milieux. The locus classicus is the case of indraśatru, which starts off the process of uniformation and regulation of bahuvrīhi compound stressed on the first constituent. The same scholarly-discussed indraśatru compound is mentioned in the late Rigvedic textual layer (RV 1.32.6; 1.32.10), as an expressive poetic device. Therefore, the two Pāṇinian characteristic traits of the bahuvrīhi compound are inherited from a peculiar blend of poetic language and linguistic exegesis.

INTRODUCTION

Pāṇini’s model of the bahuvrīhi compound is presented in the sūtra 2.2.24 of his work:

A 2.2.24: ánekam anyapadārthé //
<Two or more inflected nouns [combined] in the meaning of another inflected word (i.e., the meaning of an inflected word different from the constituents) <are a bahuvrīhi compound>».

* The first version of this paper was presented at SALA 35 (South Asian Languages Analysis Roundtable, Paris, October 29-31, 2019). As far as the passages of Vedic and Sanskrit texts are concerned, unless otherwise stated, the translation is mine.

1 As regards its interpretation, see Cardona 1997, pp. 219-221; Sharma 2002, III, pp. 91-93; and mo-
According to the recent studies, it means that the morphological and syntactic valency of a *bahuvrīhi* compound can be exhausted only outside its surface-constituents. Moreover, no derivational affix, even phonetically null, conveying the morphological value of possessive and converting an endocentric compound into an adjective, is to be postulated: it is characterised by zero-ending for all constituents with no special ellipsis, that is, in Pāṇinian terms, «all the members of such a compound are its *upasar-ajanasa*». Instead, given such a Pāṇinian analysis, the Western label of “exocentricity” comes to correspond to the syntactic relation that holds between the *denotatum* of the whole compound and one of the surface constituents of the compound itself, either the right-hand one or the left-hand one. This is explicitly confirmed by the earliest Pāṇinian indigenous commentaries, where relative pronouns are prevalently adopted in the constituent-analysis of the *bahuvrīhi* compounds, according to glossas such as [RC [X *yasya*] saḥ Y]. Nonetheless, the relative clauses so constructed as phrasal paraphrases do not exclusively imply a “possessive” relation between the *denotatum* and surface constituents, thereby attesting that a univocal morphological and syntactical value, which might correspond to a specific marker, cannot be postulated for the Sanskrit *bahuvrīhi* compounds. On the contrary, the very category of the *bahuvrīhi* compound itself is characterised by a sort of polyvalency, “fuzzily” depending on the variability of the co-text phrasing. It is this very polyvalency that turns the Sanskrit *bahuvrīhi* compound into a refined poetical device, suited to the expressive complexity of classical Sanskrit poetry, and in general to the elaborated and learned expressivity pertaining to the Sanskrit culture.

Given this scenario, it is worth recalling that Pāṇini’s linguistic models result from a “descriptive” approach to the linguistic facts, so that such a Pāṇinian model of *bahuvrīhi* can be more understandable if inserted into the wider perspective of the so-called Pāṇinian Sanskrit, that is the linguistic variety “described” in Pāṇini’s work. In fact, in historical terms, the so-called Pāṇinian Sanskrit does not yet correspond to the classical Sanskrit stage, even though the *Aṣṭādhyāyī* of Pāṇini will be assumed as an authoritative parameter for “grammaticality”, especially from Patañjali’s work onward (2nd BCE). This means that the Pāṇinian *bahuvrīhi* model must be referred to the early cultural period, attested in the Vedic textual repertoire and transmitted in the Brahmanical Vedic schools.

In short, as is well known, Pāṇinian Sanskrit might be considered as a sort of “conversational language”, dating back to around the late Vedic period (5th-4th BCE), and

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2 This differs from the traditional interpretation ascribed to scholars such as Bopp 1833, V, p. 1433, and Whitney 1889, p. 501: as argued by Maria Piera Candotti and Tiziana Pontillo the Pāṇinian analysis of the Sanskrit *bahuvrīhi* compounds is based on the *LUK* zero-replacement endings for all the constituents: Candotti – Pontillo 2019.

3 Cf. Lowe 2015, pp. 100-106.

4 Cf. also Gillon 2007, pp. 12-15; as regards the possessive and adjectival affix –*ka*, cf. Lowe 2015, pp. 84-85; 105-106.

5 This question has been lengthily debated, beginning from the first Western edition of the *Aṣṭādhyāyī*
thus roughly corresponding to the Vedic prose of the Vedic corpus. However, it is controversial which linguistic variety must be meant by the Pāṇinian term bhāṣā, especially in relation to other linguistic varieties referred to in Pāṇini’s work, such as the so-called chandas variety, which conveys the “prestigious” linguistic register of the Vedic samhitās, the “Sacred Literature” par excellence. Therefore, the language described in Pāṇini’s work is a variable linguistic reality, a sort of “Hybrid Sanskrit”, which is an example of a semi-colloquial language spoken by educated speakers within learned Brahmanical communities.

Against such a linguistic background, the Pāṇinian model of the bahuvrīhi compound is appropriate for classical Sanskrit – in actual fact, it will be assumed as a prescriptive rule – but as such, in the “descriptive” perspective of Pāṇini’s Sanskrit, it is not sufficient to account for all its linguistic varieties. In fact, the condition of the Pāṇinian bahuvrīhi must be completed by the sūtra 6.2.1, which deals with the position of the accent, that is the first constituent of the bahuvrīhi compound retains the accent as if it were a simple pada, not employed in the compound.

A 6.2.1: bahuvrīhaú prakṛtyā pūrvapadām //
«In the bahuvrīhi compound the initial constituent [is] with the original form (prakṛtyā)»

Such a linguistic specimen correlated to the accent especially pertains to Vedic Sanskrit, whereas the later classical Sanskrit is not characterised by the same system of accentuation. In fact, the aforementioned sūtra 6.2.1 is evidence for assuming that Pāṇini’s Sanskrit is correlated to the Vedic Sanskrit in a sort of linguistic continuum: the accent rules do not pertain exclusively to the chandas variety, but the whole Pāṇinian text presupposes a form of accentuation, although there is no perfect correspondence between the Vedic accentuation and the accentual system adopted in the later Brāhmaṇas onwards.

By Bohtlingk 1887, pp. xvii-xix. Paul Thieme’s work (1935) is still authoritative, even though his thesis (pp. 63-81) has been focused and deepened by scholars such as Bronkhorst e.g. 1991, Deshpande e.g. 1992 and 2001; more recently: Kiparsky 2012, Kulikov 2013 and Houben 2018.

7 Cf. Kulikov 2013 and Houben.
8 Cf. e.g. Kiparsky 2012.
9 As regards the relationship between the bhāṣā and chandas varieties, cf. Deshpande 1985. Moreover, as regards the Vedic textual tradition, Pāṇini’s work appears to be familiar with the Black Yajurvedic tradition, attested in the north-western and central areas of the Gangetic plain: cf. Sadowski 2002 and Thieme 1935; in particular, Pāṇinian work is acquainted with the texts of the Kāṭha and Taittirīya school.
10 As regards this definition, see Kulikov 2013, p. 84.
12 In actual fact, the accent marking came to be changed and progressively lost from the later Brāhmaṇas onwards.
13 In a synchronic perspective a diglossic relationship is implied between bhāṣā and chandas varieties; nonetheless, bhāṣā and chandas varieties can also be interpreted in a diachronic perspective: the Pāṇinian Sanskrit on the one hand retains ‘relics’ of the so-called earlier Vedic Sanskrit and, on the other, anticipates linguistic innovative traits, belonging to post-Vedic Sanskrit. Also, Wilhelm Rau (1985, p.104) uses the same term Kontinuum mainly within a diachronic perspective of the issue. As regards the relationship between the so-called bhāṣā and chandas rules, cf. Deshpande 1985.
Pāṇini’s work and “described” in its sūtras. In actual fact, a relevant section of the Pāṇinian work is concerning the accentuation, beginning from the sūtra 6.1.155; in particular, the sūtra 6.1.220 deals with the accentuation normally applied to a compound, and the following quarter of the sixth lesson refers to manifold cases and exceptions, which do not fall into the chandas variety, so confirming that Pāṇini’s Sanskrit should also be considered in relation to such a peculiar linguistic context. Furthermore, Pāṇini’s model of the bahuvrīhi compound is to be referred in primis to it. Thus, the aim of this paper is to investigate how this Pāṇinian model may be correlated to linguistic facts of the Vedic Sanskrit, in particular as registered in the early and late Rigvedic textual layers and transmitted in the Brahmanical scholarly milieux.

The Vedic Sanskrit Scholarly Model of the Bahuvrīhi Compound: The Case of “Indraśatru”

The Pāṇinian sūtra 6.2.1, defining the position of the accent in bahuvrīhi compounds, is the first of a number of exceptions to the general rule (utsarga), quoted in sūtra 6.1.220 (samāsasya), according to which «The final constituent of a compound is marked with udātta (‘accent’) at the end». Therefore, Pāṇini’s model of the bahuvrīhi compound implies a suprasegmental marker, that is the accent, used contrastively as a distinctive marker between the category of bahuvrīhi compounds and other categories of compounds, de facto endocentric compounds. This would mean that if on the one hand no specific ellipsis of the morphological and syntactic marker is posited, on the other, the consequent morpho-syntactic polyvalency, as a characterising trait of a bahuvrīhi compound, is suprasegmentally marked, in particular by means of contrastive modality. That would mean that the accent is the mark of such a morpho-syntactic polyvalency.

In actual fact, such a contrastive function of the accent in relation to different typologies of compounds is well known in the Brahmanical scholarly sapiential repertoire that predates the Pāṇinian work: a variant of the famous Vṛtra–myth, especially referred to in prose sections of the collections of the Yajurvedic schools, corroborates

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14 Johannes Bronkhorst (2007, p.185) resumes the question thus: «[…] any comparison between the linguistic data in Pāṇini and those in the Veda must be extremely careful in the field of sandhi and accentuation». Discrepancies between Pāṇini’s sūtras and Vedic linguistic facts, as attested in the Vedic corpus, were already ascertained by William Dwight Whitney (1893), referring especially to chandasi rules; cf. more recently the case presented by Leonid Kulikov (2013).

15 Cf. Sharma 2001, p. 193: in this sūtra the compound is interpreted as a whole, whereas the compound as such is normally conceived of as formed by two or more integrating syntactically related nominals, characterized by their own individual accents, as the same following sūtras suggest.


17 Cf. Lühr 2004b, 163-186.

18 MS 2.4.3; KS 12.3; TS 2.4.12.1; 2.5.2.1; 2.5.2.2; ŚB 1.6.3.8-10; the same passage is also mentio-
the fact that the Pāṇinian aphorisms picture the linguistic traits as attested and preserved in the Brahmanical scholarly context, with special reference to prose textual material. Such a mythical variant is centred on the relationship between Indra and his supporter Viṣṇu, combined with the sacrificial context, but it also involves Vṛtra:\(^{19}\) his father Tvaṣṭṛ, who desires a powerful son able to defeat Indra, pronounces a mantra with the compound “indraśatru”\(^{19}\), although he mistakes the auspicious tatpuruṣa form indraśātra “adversary of Indra” with the accent on the second constituent, for the inauspicious bahuvrīhi form indraśatru “one whose adversary is Indra” with the accent on the first syllable, so that his son Vṛtra is effectively slain by Indra. The episode is annotated in MS 2.4.3 as ‘Indeed, he wished to turn him into the adversary of Indra, he turned Indra into his adversary’: īndrasyāhaināṃ śātrum ācikīṛṣad ēndram asya śātrum akarot. Moreover, it is suggested in Patañjali’s work (1.2.11-12), and in the Pāṇinīya śikṣā (st. 52), by means of the quotation of the compound likened to Indra’s weapon (vajra ‘thunderbolt’):

\[\text{duṣṭaḥ śabdaḥ svarataḥ varnataḥ vā mithyā prayuktaḥ na tam artham āha / sa vāgvajraḥ ya- jāmānāṃ hinaṣṭi yathā āndraśatruḥ svarataḥ aparādāḥat} / \ ‘\text{A word defective because of the accent or a phoneme used wrongly does not convey the (proper) meaning (artha). (Being) a thunderbolt in the form of speech, it kills the sacrificer just as did (the use of) āndraśatru because of a wrong accent’}.\(^{20}\)

Here, the mention of the «sacrificer» referring to the ritualistic context of the textual Yajurvedic sources, definitively establishes the correlation between linguistic correctness and the efficacy of the ritual speech,\(^{21}\) so conferring the primacy of the linguistic competence on the sacerdotal sapiential tradition: in this way the linguistic auctoritas of the Brahmanical schools, whose Speech (vāc) is a powerful weapon as such, is definitely promoted. In actual fact, the compound “indraśatru”, on which the aetiology of the defeat of Vṛtra is pivoted, is mentioned in the later Rigvedic textual layer,\(^{22}\) that is in a hymn in the first book (RV 1.32.6; 1.32.10), belonging to the same textual layer of the Atharvavedic collection (≈ AVP 12.12.6; 12.12.10),\(^{23}\) whose redaction is ascribable to the Kuru period:\(^{24}\)

\[\text{RV 1.32.6d} \approx \text{AVP 12.12.6d} \approx \text{TB 2.5.4.4} \ \text{sāṃ rujānāḥ pipiṣa īndraśatruḥ} \]

\[\text{sāṃ} \quad \text{rujā} \quad + \quad \text{ānāḥ} \quad \text{pipiṣe} \]

\[\text{completely.PVB} \quad \text{shattering-INS.F.SG} \quad \text{faceless-NOM.M.SG} \quad \text{crush-PRF.3SG.PASS} \]


\(^{20}\) For this interpretation see Joshi – Roodbergen 1986, pp. 41-42.


\(^{22}\) As regards the Rigvedic textual layers and their correlation with the Atharvavedic collection, cf. WitzeL 1995b.


\(^{24}\) Cf. e.g. WitzeL 1997, p. 278.
The hymn in which the compound occurs is a sort of epic composition, centred on Indra’s archetypical heroic deed: the defeat of the enemy-serpent (áhi), Vṛtra, corresponding to the Indo-European mythologeme “HERO-SLAY-Adversary [in form of] SERPENT/Dragon”. In such a co-text, the compound “indraśatru” is interpreted as thebahuvṛiḥi ‘one whose adversary is Indra’ because of the accent, and employed as an epithet of Vṛtra; on the other hand, it does not occur as tatpuruşa compound ‘adversary of Indra’ in the Rigvedic collection. However, it is analogue to thebahuṣakti compound indrasakhi ‘one whose comrade is Indra’, mentioned inRV 7.34.24b and in the later textual stage (e.g. AVŚ 4.22.6c; 7c), which is in compliance with the type of Indo-Iranian bahuvṛiḥi compound “A als E habend”, as analyzed by Schindler. Moreover, indrasakhi refers to a phraseology frequently used in the Rigvedic collection, such as the genitive syntagmasindraya sākhyā- ‘comrade of Indra’/ indraya sākhyā- ‘comradeship of Indra’; also the syntagma indreṇa sākhyā- ‘comradeship with Indra’ is attested inRV 2.18.8a. Lastly, it can be considered as the equivalent of the instrumental syntagma indreṇa sākhyā- ‘with Indra as comrade’, occurring inAVŚ 7.41.1d. On the contrary, the phraseology involving the terms indra and sātru is not so common: in the Rigvedic collection the phraseological inflected syntagma “X-GEN sātru-” (‘adversary of s.one, against s.one’) is mainly attested in the late Rigvedic textual stage, and in the subsequent textual stage, as the above-mentioned MS passage points out, mainly referred to the antagonistic relationship with Indra, but, in actual fact, the explicit phrase indraya sātru- is mentioned only inRV 10.155.5c. Nonetheless, the neologistic epithet sātru-hān ‘slaying adversary’, equivalent to

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25 As to the controversial interpretation of rujāṇāḥ, seeOLDENBERG 1909, pp. 31-32; WITZEL – GOTO 2007, p. 535; here, Thieme’s hypothesis is assumed: rujāṇāḥ = rujā (ins. of root noun ruj-) + ānās = bahuvṛiḥi < karmadhāraya an-ās ‘no face’ (THIEME 1957, p. 88).
27 Cf. the classicHow to Kill a Dragon byWATKINS 1995.
28 So SCARLATA – WEDER 2015, p. 9; and LÜHR 2004b, pp. 182-183.
30 Cf. RV 3.60.3a; 4.25.1b; 8.48.2c; 10.62.1b; in the ninth book they are formulaic expressions (7x).
32 E.g. RV 1.33.13a; 10.42.6c; 10.155.4c; AVŚ 4.22.3d; 20.89.6c; etc.
33 RV 10.159.3a; AVP 7.20.
archetypical vrtra-hān ‘slaying vrtra’, confirms that in this Vedic textual layer whoever is to be the winner in a contest must be magically defined as Indra, while the term ‘adversary’ (śātru) identifies whosoever is to be defeated like the mythical Vṛtra. Likewise, the syntagma “X-GEN hāntar-” (‘slayer of s.one’) is the counter-syntagma of “X-GEN śātrum”, so defining the Indraic hero, the winner as such. The glossa of the later Nirukta (600-250 BCE), applied to the interpretation of indraśātru, retains the same construction: ‘Indra is slayer or destroyer of this one (who is) śātrum’. Therefore, the menacing late Rigvedic syntagma “X-GEN śātrum” is thus apotropaically controlled: whosoever dares to arise as an adversary will be slain just as Indra slew his antagonist. Such phraseology seems to restore and amplify the image of Indra as unrivalled, already outlined in the earlier Rigvedic textual layer: he has no adversaries or counterparts, and ‘slays all the obstacles and adversaries in the contests’. Moreover, neither the karmadhāraya compound indraśātru meaning ‘adversary as Indra’ or ‘adversary in form of Indra’, nor the predicative syntagma ‘Indra [is] the adversary’ is attested in the Rigvedic collection at all. Therefore, the bahuvrīhi compound indraśātru seems to result from an innovative combination of the term indra with śātrum, though in compliance with the type of Indo-Iranian bahuvrīhi compound represented by indrasakhi:

1) \( \text{[RC} \text{X-GEN śatrum yah]} sa \\ \text{indrasya śatrum]} \)
   He who is adversary of s.one is adversary of Indra

2) \( \text{[RC} *\text{indra śatrum yasya / yena / yasmāt]} sa \text{indraśatrum]} \)
   He whose adversary is Indra / by whom *Indra is adversary / against whom *Indra is adversary / because of whom *Indra is adversary, is indraśatru

In this way, the Indraic primacy is completely renewed, since ‘one whose adversary is Indra’ or ‘by whom Indra is adversary / against whom Indra is adversary / because of whom Indra is adversary’ is not only to be slain, like Vṛtra, Indra’s adversary par excellence, but is also not expected to exist other than Vṛtra. Linguistically speaking, the Rigvedic compound “indraśatrum” is used with exocentric value, and not as a determinative compound: it implies a syntactic relation between the denotatum-Vṛtra and the surface constituents – indra and śātrum –, which may be expressed by manifold relative phrasal paraphrases, thus implying a morphological expertise. In actual fact, the use of the relative pronoun in polyptotic constructions emerges in the inter-

34 The compound śatru-hān is based on the common phraseology involving the root han ‘to slay’, constructed with the accusative: cf. SCARLATA 1999, p. 693.
35 It is attested in the late Rigvedic textual layer, e.g. in RV 10.166.1c; AVŚ 1.7.1d; etc.
36 The date of the Nirukta is a controversial matter.
37 Nir 2.16: indraśatrum indra ’sya śamayatā vā śātayitā vā.
38 Cf. e.g. RV 6.18.12c: nāsyā śatrur nā pratimānam asti / ‘there is neither adversary nor counterpart for him’.
39 RV 4.41.2c: sā hanti vrtra samithēṣu sātrum.
40 As for the diachronic relationship between bahuvrīhi compound and karmadhāraya compound, this is not the focus of this article, but see just a hint on p. 15, and in note n. 45.
mediate Rigvedic textual layer and develops especially in the Atharvavedic formulations. Nonetheless, the two surface constituents – īndra and śātru – are juxtaposed as a simplified morpho-syntactic sequence [NN], in compliance with the model of compounding belonging to the pre-Rigvedic linguistic stage, and in particular with the “indrasakhī” type.

Thus, the late Rigvedic bahuvrīhi compound “indraśatru” as an epithet of Vṛtra connotes Indra as unrivalled in an innovative way: it results from both a sophisticated re-elaboration of mythological imagery already documented in the earlier Rigvedic textual layers, and a morpho-syntactic re-formulation of common phraseology, combined with profound textual expertise, by means of which the Indraic leadership is restored. It is therefore assumable that such a poetic neologism may be the outcome of that first work of textual survey and redaction dating back to the Kuru period, which inaugurated the process of canonisation of the Vedic textual repertory and the correlated phenomenon of the formation of the Brahmanical “schools”.

Hence, the bahuvrīhi model represented by the case “indraśatru” is the output of metrical competences, linguistic expertise, poetic devices, and mythological imagery combined in a refined way by skillful philologists and exegetes. This came to constitute the sapiential Brahmanical tradition, transmitted in the scholarly mileux, inherited by Pāṇini himself and to which Pāṇini refers.

The Vedic Sanskrit Scholarly Model of the bahuvrīhi Compound Between the Proto-Indo-European Model and Pāṇini’s Model

The bahuvrīhi compound is considered an important issue of the Indo-European linguistics: Proto-Indo-European models of compounding are devised especially on the basis of the Sanskrit Vedic and the early Greek bahuvrīhi compounds: in actual fact, the bahuvrīhi compounds are especially attested in the Vedic linguistic stage of the Ṛgvedasamhitā and in Homeric Greek, compared to a paucity of determinative compounds.

41 E.g. RV 2.12; AVŚ 10.7. Cf. Ronzitti 2014, p. 89ff.
42 As regards this issue, see below.
43 Cf. e.g. Witzel 1995a, pp. 14-15. In this perspective, the later scholarly analysis of the compound, correlated not only to the role of Indra but also to that of Viṣṇu, further corroborates the idea of cosmic sovereignty, thus confirming that the scholarly textual exegesis is a means to promote political leadership.
45 The diachronic primacy of the exocentric compound has been debated: the bahuvrīhi compound is considered as being earlier than determinative compounds (tatpuruṣa and karmadhāraya); cf. Jacoby 1897, pp. 83-86 vs. Brugmann 1905-1906, p. 59. Furthermore, according to Jacoby 1897, pp. 3-4, the syntactic structure implied by tātpuruṣa compounds would be morphologically more articulated than the predicative construction entailed by karmadhāraya compounds, so that it is assumable that the attributive determinative compounds may belong to the same proto-linguistic stage as the bahuvrīhi.
Finally, the Proto-Indo-European model of compounding assumes that a compound results from a process of ‘univerbation’ (Unverbierung) and ‘lexicalisation’ (Worteinung) of an original phrasal syntactic construction: in the case of the bahuvrīhi compound, it can be a relative clause structure with possessive meaning (e.g. ‘one whose adversary is Indra’). Therefore, in compliance with this reconstruction, the category of bahuvrīhi compound emerges from the shifting of syntactic structures to morpho-lexical ones. However, Jacobi argued that the bahuvrīhi compound in particular must derive from sentences without a copula, by means of a simple process of a ‘juxtaposition’ (Zusammenrückung) of simplified syntactic sequences (e.g. [AN], [AdvN], [NN], [NA]), without implying any exclusive possessive meaning and relative pronoun construction. This latter hypothesis would be congruent with the Pāṇinian model, whose morphological and syntactic valency is variable, since it is exhausted outside the compound itself, depending on the phrasal co-text.

On the other hand, such a process of univerbation and juxtaposition, pertaining to the primordial linguistic stage, entails that the morpho-syntactic structures themselves are questionable, and that the system of nominal inflection was not fully developed yet, or even still at a pre-inflectional stage. Thus, by applying Jakob Wackernagel’s analysis, and taking into account the relative chronology of the Rigvedic collection, for example the compound uttānāhasta ‘one whose hands are outstretched’, referring to the praying posture for the suppliant, must derive from the process of univerbation of the phrase *uttānā(s) hāsta(s). Attested in the formulaic expression uttānāhasta-nāmasā ‘with outstretched hand in reverence’, it corresponds to the Indo-European phraseology documented for example in the Homeric formula χεῖρας ἀνασχέιν ‘to raise the hands’, and especially in the equivalent Old Avestan formula nemaŋhā ustānazastō ‘with outstretched hands in reverence’, so that it can be considered as an Indo-Iranian relic and even a Vedic archaism.

RV 10.79.2d uttānāhastā nāmasādhi vikṣū

uttānāhastā + nāmasā ádhi
[outstretched-STEM-hand-STEM]NOM.M.PL reverence-INS.N.SG among.ADV vikṣū clan-LOC.M.PL
‘[they] with outstretched hands among the clans’

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46 Cf. Brugmann 1906, pp. 35-50, §18-19; 49-52, §23; 75-76, §34.
47 Cf. Jacobis 1897, pp. 87-90; especially pp. 89-90.
49 This was the communis opinio from Jacobi 1897, p. 1 onwards.
50 Wackernagel 1957, pp. 289-290.
52 It occurs in RV 3.14.5b; 6.16.46d; 6.63.3dc; 10.79.2d.
Similarly, against such an Indo-Iranian background, a root is closely connected to the image of the fire, that is PIIR (s)ćauć ‘to burn, to blaze, to flame’. In Vedic Sanskrit the correlated root śuc is extremely productive through its derivatives: the bahuvrīhi compound śukrāśocis ‘one whose flame is burning’, denoting the fire, is redundantly formed by two constituents (śuk-rā ‘burning, blazing’ and śoc-īs ‘flame, blaze’) both derived from the same root śuc, with derivational suffix and ablaut.

E.g. RV 7.15.10ab āgni ráksāṃsi sedhati śukrāśocir ámartiyaḥ

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<tbody>
<tr>
<td>fire-NOM.M.SG</td>
<td>demon-ACC.N.PL</td>
<td>ward.off-IND.3SG.PRES</td>
<td>[blazing-STEM-flame-STEM]</td>
<td>NOM.M.SG</td>
</tr>
<tr>
<td>ámartiyaḥ</td>
<td>immortal-NOM.M.SG</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

‘Agni, whose flame is flaming, the immortal, wards off the demons’

In this case too, the bahuvrīhi compound śukrāśocis would be the result of the univerbation of the constituents of a simplified syntagma *śukrā(m) śocis āgni(s) thus retaining the oxytone accent of śukrā, but evident morphological processes based on derivational suffixes and ablaut of root are also to be assumed.

Similarly, the bahuvrīhi compound tuvīśravas-tama ‘one whose fame is very mighty’ or ‘very mighty-famed’, referring both to Agni and the progeny he supports might result from the juxtaposition of *tuvī ‘strong, mighty’ (< PIE *tuH₂-i-) and śrávas ‘fame, glory’ (< PIE *kλeus), in a simple phrase such as *tuvī śrávas āgni(s) ‘mighty fame, Agni’. The motif of ‘fame, glory’ represented by the PIE *kλeus is widespread in the Indo-European background, and the Vedic compound *tuvīśravas is etymologically the equivalent of the Cypr σαμοκλέμης. The compound prthuśrávas, ‘one whose fame is broad’ or ‘far-famed’, occurring in the intermediate and later Rigvedic textual layers as the name of a generous patron (sūrí), might also be the outcome of *prthu śrávas sūrí(s) ‘broad fame, patron’, which would reflect the same Proto-Indo-European ideology as the *kλeus, on which the paradigm of leadership relies.

Lastly, the famous scholarly example īndraśatru referred to vr̥trā, might also be analysed as the outcome of the univerbation of the simple phrase *īndra(s) sātru(s) vr̥trā(s) ‘Indra the adversary, Vṛtra’, preserving the accent on the same syllable of the first term īndra, which is juxtaposed, without hypothesising any relative clause structure.


Attested e.g. in RV 2.2.3c; 8.44.9b; 8.23.20b; 7.14.1c; 7.15.10b.

RV 5.25.5a; 3.11.6c.


Cf. Lubotsky 1988, p. 123; tuvī ‘strong’ is the zero grade form (*tuH₂-i-) of the adjective tavās, a derivative of the root tavī ‘to be strong’ < PIE *teuh₂ / tuH₂, cognate of Lat tumēre ‘to be swollen’, and Gr σάος / σῶς ‘safe, healthy’.

RV 8.46.21d; 24a and 1.116.21d.
Thus, in compliance with such a Proto-Indo-European model of the *bahuvrīhi* compound, no relative clause or other complex morpho-syntactic structures should be involved: in this sense any compound might result from metonymic processes belonging to the earlier poetic language, according to which the outstretched hands are identified with the suppliant and the blazing flame with the fire as such, the broad fame with the heroic and generous leader of the clan as such, while the relationship between Indra and the adversary metaphorically evokes Vṛtra as such, without any specific affix conveying any specific morphological value.

However, it is worth recalling that, apart from any diachronic primacy, the *bahuvrīhi* compound is found throughout manifold linguistic Sanskrit strata, such as earlier or later Vedic Sanskrit or even classical Sanskrit. What is different is the level of linguistic and metaphorical complexity: the more complex the metaphorically elaborated image, the more refined and magically connotative the poetic register, token of a deeper level of poetic skills, and of a more complex cultural reality. Thus, what might be a metonymic output, without any ending, insofar as it belonged to a pre-flectional or semi-inflectional linguistic stage, was eventually developed as a poetic device, cleverly and refinedly used in relation to different expressive aims, depending on the different cultural stages.61

For example, *uttānāhasta* ‘one whose hands are outstretched’ immediately denotes the figure of the suppliant, but in RV 10.79.2d it alludes to a solemn clan ritual, centred on the fire-clan. Similarly, *śukrāśocis* ‘one whose flame is flaming’ which defines the fire as such, is a metonymy immediately denoting the object “fire”; but redoubling the same root (*śuc*) by means of the two derivatives used as constituents, it appears to be a sophisticated poetic device, a sort of etymological figure, rather than a mere metonymy. Likewise, *indraśatru* ‘one whose adversary is Indra’ is the fruit of a linguistically and metaphorically elaborated revision. In actual fact, as pointed out above, the *bahuvrīhi* *indraśatru* conveys a more effective value than the simple *tatpurusa* ‘adversary (śātru) of Indra’, reversing the role of Indra himself; since he is an ‘adversary’ (śātru), he overrides all his own adversaries, establishing himself as the supreme and cosmic leader.62

Therefore, the Vedic Sanskrit *bahuvrīhi* compound as attested in the Rigvedic, Atharvavedic and Yajurvedic collections is only apparently in line with the Proto-Indo-European model of the *bahuvrīhi* compound that relies on univerbation and juxtaposition: it depends on the different linguistic and poetic stages, corresponding to different Vedic cultural stages.

Finally, although it may be controversial to relate such a process of juxtaposition to a pre-flectional linguistic stage, characterised by the zero-ending of all the con-
stituents, or to inflected endings, but realized by means of zero morpheme,\(^63\) it is worth noticing that except for *uttānáhasta, that is the crystallised Indo-Iranian form, open inflected syntagmas of the constituents of compounds are found throughout all the textual layers. For example, the two constituents *prthù and *śrávas are mentioned separately as syntagma *prthù śrávas ‘broad fame’ in RV 7.5.8d; the inflected syntagma *śukrā(m) śocis is frequently mentioned mainly in the instrumental case śukréṇa śociṣā ‘with the blazing flame’, mostly in the late Rigvedic and mantric textual layers\(^64\). On the other hand, the same inflected syntagma śukréṇa śociṣā also occurs in RV 4.52.7c and 6.48.7b; furthermore, the genitive form is used in the expression śukrasya śociṣas pate ‘o lord of the blazing flame’ referring to the god Agni in RV 5.6.5b. This would mean that not only is the *bahuvrīhi compound śukrāśocis evidently correlated to the flectional system, but that it was also constructed in parallel with morphological responsions and polyptota that seem to turn the derivational affix and grammatical complexity into a poetic device and, reversely, poetry into an overview of morpho-syntactic peculiarities.\(^65\) Thus, on the one hand, the *bahuvrīhi compound śukrāśocis occurs in the mantric textual layer,\(^66\) even with additional morpho-lexical redundancy based on the term śukrā.\(^67\) On the other hand, we find examples of the formulaic phrasal syntactic construction śukrā śocīṃsy agnéḥ ‘the flames of the fire are blazing’;\(^68\) it appears as a sort of gloss of the *bahuvrīhi compound itself, inasmuch as the blazing flames are defined as belonging to the fire; it actually precedes later relative scholary phrasal paraphrases: fire ‘whose flames [are] blazing’ is śukrāśociḥ.

Furthermore, neither *tuví śrávas nor *tavás śrávas (‘mighty fame’) are found as open syntagma, but the secondary morpheme -tama of the compound tuviśravas-tama suggests that it is morphologically considered as one adjectival stem.\(^69\) Lastly, the phrase *indra(s) śátrū(s) ‘Indra the adversary’ is not attested in the Rigvedic collection, as noticed above, but it is evoked by the cadence indra śátrūn ‘O Indra, the adversaries (acc.pl.)’ occurring in the late Rigvedic stage.\(^70\)

From this synthetic argumentation it follows that not only is there no univocal model of Proto-Indo-European compounding, particularly of the *bahuvrīhi compound, but the Proto-Indo-European model of the *bahuvrīhi compound only apparently coincides with the Pāṇinian model. In fact, the Pāṇinian model of zero-ending for all the con-

\(^{63}\) Such as vocative, imperative, etc.: cf. Dünkel 1999.

\(^{64}\) *E.g.* RV 1.48.14d; 1.12.12a; 8.44.14b; 8.56.5c; 10.21.8a; 10.45.7d ≈ MS 2.7.9d; KS 16.9d; TS 4.2.2.2d; VS 12.24d.


\(^{66}\) RV 7.15.10ab ≈ AVŚ 8.3.26b; MS 4.11.5b; KS 2.14b; TB 2.4.1.6b.

\(^{67}\) *E.g.* MS 1.3.12b śukrāu śukraśocisāu ‘the two blazes whose flames are blazing’.

\(^{68}\) *E.g.* AVŚ 5.27.1b; TS 4.1.8.1b; MS 2.12.6b; KS 18.17b; VS 27.11b; ŚB 6.2.1.32.

\(^{69}\) For instance, the same structure is reproduced in the connotative compound, referring to the fire-clan, citrāśravastama ‘one whose fame is very shining’ (e.g. RV 3.59.6c; 1.1.5b; 1.45.6a). In this case too, a complex metaphorical value is combined with a morphemic sequence, so that grammatical competence and poetic effect are closely correlated.

\(^{70}\) RV 10.112.5a; 1.178.5a; AVP 3.21.3d.
stiuents is not valid for the bahuvrīhi compound only, but for any category of compounds;\footnote{Cf. A 2.4.71; \textsc{Candotti – Pontillo} 2019, p. 31: «The case-endings of both the constituents are equally zeroed in the same way in both exocentric and in endocentric compounds, irrespective of the fact that in endocentric compounds one of the members is the head of the compound».} moreover, it postulates not only a fully developed inflectional system,\footnote{Also, \textsc{Dunkel} 1999, p. 53.} but also a high degree of metalinguistic expertise. The very few cases of the above-mentioned Rigvedic bahuvrīhi compounds seem to account for a more variable situation: throughout the diachronic development of the Vedic textual repertoire not only does the inflectional system operate regularly, but derivational processes are also active either as innovative output or conservative archaism. Furthermore, a specific grammatical competence of a skilled category of “poets” is assumable, so that what may also be a relic of a hypothesised pre-flectional or semi-flectional stage (e.g. *tuviśrāvas < PIE *tuH₂-i *kleu̯s) is combined with a morphological suffix (e.g. tuviśravastama) or employed as a solemnising archaism (uttānāhasta); the derivational suffix with root ablaut is used to increase the magic effect of the same root (e.g. śukrá – śocis). Indeed, it is evident that at least from both the late Rigvedic textual layer and mantric linguistic strata on, we find a competent use of linguistic devices aimed at heightening poetic register together with the adoption of an exegetic linguistic effort that attempts to shed new light also on common expressions. A primordial metalinguistic tendency was also developed, as attested in the \textit{padapāṭha} ascribed to Śākalya.\footnote{As regards Śākalya’s \textit{padapāṭha} as an early case of \textit{canonization} of the Rigvedic text, cf. \textsc{Witzel} 1997, pp. 324-326; also, \textsc{Scharfe} 2009, pp. 73-84.} As is well known, in this redaction of the \textit{Rgvedasamhitā}, the sandhi is solved in a ‘word-for-word’ text, and compounds – as well as a few inflected forms – are analysed in their constituents, of which the first one is quoted as zero-ending. Thus, uttāna-hastāh, śukra-śocīḥ, tuviśravah-tamah, pyṛhaḥ-śravasah, \textit{indra-śatruḥ} are found respectively in Śākalya’s \textit{padapāṭha}, attesting morpho-syntactic competence.\footnote{Cf. the text of the \textit{Padapāṭha} from http://gretil.sub.uni-goettingen.de. It is worth recalling that in Śākalya’s \textit{padapāṭha} open syntagma are used in place of the corresponding compound: cf. \textsc{Scharfe} 2009, p. 83.}

Later on, Pāṇini shows that he is well acquainted with this Brahmanical scholarly tradition\footnote{As regards the relationship between Śākalya’s \textit{padapāṭha} and Pāṇini’s work, cf. \textsc{Bronkhorst} 1981; 1982, \textsc{Cardona} 1991.} and the Pāṇinian Sanskrit itself is correlated to it: given such a Brahmanical scholarly context, a sort of scholarly “grammatical” model of compounding is to be posited. This is consistent with the development of textual exegesis and metalinguistic competence in the Brahmanical scholarly framework, prior to the Pāṇinian model, which allowed Pāṇini’s model of bahuvrīhi compound to be defined.

However, such a development of metalinguistic competence is combined with an apparently conservative linguistic trait, that is Sanskrit Vedic accentuation: in compounds in particular it is employed as a contrastive suprasegmental marker to distinguish the exocentric compound \textit{versus} what is otherwise a non-detectable endocentric compound, since it is not saturated by any suffix.
ACCENTUATION AND VEDIC SANSKRIT SCHOLARLY “GRAMMATICAL” MODEL OF
BAHVURĪHI COMPOUND

As far as the accentuation is concerned, Pāṇini’s model is defined in the aforementioned A 6.2.1: the first constituent of the bahuvrīhi compound retains its ‘natural’ (prakṛtyā) accent, that is on the syllable which would be stressed if the word was not combined with another one in order to form a compound. Such Pāṇini’s model is consistent with the accentual behavior of the scholarly “grammatical” model accounted for by the case “indraśatru”. On the other hand, according to the Proto-Indo-European reconstruction, the fact that the Vedic Sanskrit bahuvrīhi inherited the accentuation of the first juxtaposed element is demonstrated by the tendency to preserve a sort of Proto-Indo-European rhythmic principle which confers relevance on the initial position of a sentence. Moreover, in accordance with the recent studies about Proto-Indo-European accentuation, patterns of accentual behavior can be reconstructed, such as the so-called Basic Accentuation Principle (BAP) formulated by Kiparsky, whereby all accents are erased but the leftmost one, so that the accent is put on the leftmost syllable of an unaccented domain. Therefore, the accent on the first constituent of the Pāṇinian model of bahuvrīhi compound may be a relic of such Proto-Indo-European accentual behaviour, even though Pāṇini insists on the fact that the constituents of a compound bring their own original accent, as if they were independent pada. However, as noticed above, Pāṇini’s model of bahuvrīhi, despite the zero-ending for all the constituents, operates within an inflectional and derivational system, with affix which can operate as “dominant” morphemes, thus influencing the surface accentuation. Moreover, although the accentuation in the Sanskrit adopted by Pāṇini and described in his work is in continuity with the early Vedic Sanskrit language, it is likely that the early Vedic accentuation was more affected by prosodical and metrical conditions than the Sanskrit language referred to in the Pāṇinian sūtras. Therefore, the fact that the accentuation on the first constituent is specified as a characterising trait of the bahuvrīhi compound, in the face of the determinative compounds, is not merely a relic form, but a morphologically relevant marker.

In actual fact, the accentuation of early Vedic Sanskrit is not so predictable: cases of fluctuation are frequent, especially in compounding, insofar as early Vedic Sanskrit presents characteristics of “tonal” language, with the surface accentuation determined by an inherent prosodic property of each constituent morpheme of a word but, in any case, derivational and inflectional processes are fully developed.

76 Indeed, the beginning of the pāda in the Rigvedic collection retains such a relevance so that vocative forms of bahuvrīhi compounds also retract the accent on the first syllable. As for this acrotonic principle in the Rigvedic collection, especially in relation to verbal and vocative forms cf. Klein 1992, pp. 86-87; 111 n. 53.
77 Cf. Kiparsky e.g. 2010, p. 31.
so that they may affect specific accentual behaviour, and the accentuation can be employed even as a grammatical marker. Therefore, although the majority of the Rigvedic bahuvrīhi compounds are accented on the first constituent, thus complying with both Kiparsky’s BAP and the Proto-Indo-European model of compounding, we do find a relevant number of bahuvrīhi compounds stressed on the second constituent: for example, the aforementioned prthuśrāvas. Moreover, this phenomenon appears to occur regularly in the case of bahuvrīhi compounds with -i and -u stem adjectives as the first constituent. These stems were affected by a specific Indo-Iranian laryngeal accent shift, secondary to other Indo-Iranian linguistic processes. This triggered prosodic and accentual effects, as assumed by Jakob Wackernagel, so that the second constituent of the bahuvrīhi compounds is stressed, instead of the first one, particularly on the last syllable, thus making them oxytones. For example, bahuvrīhi compounds with *tuví ‘strong’ as first constituent, occurring in all the textual layers of the Rigvedic collection, can be barytone, either stressed on the first constituent, such as the aforementioned tuviśrávas, or stressed on the second constituent, such as tuvigrīva ‘strong-necked’; but also oxytone output are frequently found, such as tuvidyumna ‘one whose splendor is strong’, tuvinrmyna ‘one whose manliness is mighty’. Similarly, as far as the bahuvrīhi compounds with adjective prthú ‘broad’ as first constituent is concerned, either cases like prthuśrāvas or cases like prthubudhná ‘broad-based’ are found, both stressed on the second constituent, but the former is barytone and the latter is oxytone. The oxytonical outcome would comply with another Proto-Indo-European accentual principle, the so-called Oxytone Rule (OR), as claimed by Paul Kiparsky, whereby an accent is to be assigned to the rightmost edge of polysyllabic inflected stems. On the other hand, assuming that the Indo-European forms such as *tuH₂-i or plH₂-u were unaccented, or better, characterised by low tone morphemes, the accentuation of compounds such as tuvigrīva or prthuśrāvas would be in accordance with the BAP: the leftmost syllable within the accentuable domain is accented, that is the first syl-

80 The question of the accentual behaviour of the affix, especially in relation to the root ablaut, is one of the recent controversial issues in Indo-European studies: cf. Lundquist – Yates 2018, pp. 2129-2137, and Pooth 2018, with their bibliography. As for the Vedic Sanskrit accent as a grammatical marker, the case of the vocative once again provides an important example: the vocative has no surface accentuation except for the acrotonic position.

81 For example: pururūpa ‘many-formed’ with purū ‘much, many, abundant’ (< *plH₁-u), prthupākṣas ‘broad-flanked’ with prthū ‘broad’ (< *pl₄H₂-u-), urucākṣas ‘far-sighted’ with urū ‘wide, broad’ (< *H₄UrH₂-u-), tuvigrīva ‘strong-necked’ with tuvi ‘strong’ (< *tuH₂-i-).


84 This case would be dominant according to Macdonell 1910, p. 92.

85 E.g. RV 5.2.12a; 1.187.5d.

86 E.g. RV 10.61.3c; 1.43.7c.

87 E.g. RV 4.2.5d; 1.169.6c.

88 As regard a complete list of the Rigvedic bahuvrīhi compounds, cf. Melazzo 2010.

89 Cf. Kiparsky e.g. 2010.
lable of the second constituent.\textsuperscript{91} However, despite the manifold “exceptions” to the head sūtra A 6.1.220, these peculiar cases are not evidently contemplated in the Pāṇinian linguistic variety, except for a hint in A 6.2.168: in a certain way one could say that they are levelled. Furthermore, in a diachronic perspective the application of Kiparsky’s accentual principles should not simply be taken for granted: in the case of the derivational process of stems, the definition of the surface accent should depend on the OR, operating after erasing the inherent accent, and secondly the BAP should be activated:\textsuperscript{92} that is to say that in the Proto-Indo-European linguistic stage in which morphological processes were developed, and later, in the Indo-Iranian linguistic stage and even in the early Vedic Sanskrit stage, oxytone outputs must have been widespread, thus contrasting with the tendency noticed above, that is the rhythmic relevance conferred on the opening position of speech. In actual fact, Kiparsky’s approach has recently been further explored, better targeted, and even criticised in works that focus on the ambiguous outputs of a few verbal and nominal stems, correlated in particular to similar accentual behaviour in other languages (e.g. Old Greek);\textsuperscript{93} for example, a few nominal stems are attested with divergent accents that are either oxytone or barytone: \textit{e.g.} nominal \textit{a}- stem such as \textit{kṛṣṇa} ‘black antelope’ (RV 10.94.5) or \textit{Kṛṣṇa} as a proper name (RV 8.85.3-4) \textit{vs} \textit{kṛṣṇā} ‘black’ (e.g. RV 4.7.9); -\textit{u} stem such as \textit{dāru} ‘wood’ (RV 6.3.4; 10.155.3 \textit{vs} \textit{dārū} ‘wooden’ (RV 7.6.1; post-RV);\textsuperscript{94} -\textit{ti} stem such as \textit{sakti} ‘skill, ability’ (e.g. RV 4.22.8; 7.20.10; etc.) \textit{vs} \textit{sākti} ‘power, strength’ (e.g. RV 10.36.6),\textsuperscript{95} and \textit{mati} ‘thinking’ (e.g. RV 5.67.5; 6.8.1; 3.39.1, etc.) \textit{vs} \textit{máti} ‘inspired thought’ (MS 4.9.6; post-RV).\textsuperscript{96} In a synchronic perspective, this accentual fluctuation with evident divergent behaviour can be interpreted as diatopic and diastratic phenomena, in relation to different Vedic dialects.\textsuperscript{97} Moreover, in the aforementioned cases the accent operates in a contrastive way as a suprasegmental marker of different morpho-syntactic functions: noun \textit{vs} adjective or concrete name \textit{vs} abstract name,\textsuperscript{98} not dissimilarly from the application of the accent to compounding, as exemplified by the scholarly case of “\textit{indraśatru}”, later normalised by means of the Pāṇinian sūtras.

However, in the diachronic perspective, the tendency to barytonesis appears to develop more recently, when confronted with the oxytone outputs.\textsuperscript{99} If we consider the evidence from Old Greek (e.g. \textit{τόμος} ‘slice’ \textit{vs} \textit{τομός} ‘cutting’),\textsuperscript{100} it is assumable that this accentual shift phenomenon might have emerged even in the pre-Rigvedic peri-

\textsuperscript{91} Cf. ivi, pp. 31-32.
\textsuperscript{92} Cf. e.g. RhynE – Byrd 2016, pp. 263-266 focus on the phenomenon of de-accentuation; also Pooth 2018, p. 18, more critically.
\textsuperscript{93} Cf. Keydana 2016; Sandell 2015; Pooth 2018.
\textsuperscript{94} Cf. Pooth 2018, pp. 6-7.
\textsuperscript{95} Cf. Lubotsky 1988, p. 37; Ronzitti 2011; Lundquist 2015, p. 48 n. 10.
\textsuperscript{96} Cf. Lundquist 2015.
\textsuperscript{97} E.g. Kuiper 1942.
\textsuperscript{98} Cf. Lazzeroni 1995; Pooth 2018.
\textsuperscript{100} Cf. Lubotsky 1988, p. 126ff.; Lazzeroni 1995.
od, although it would spread later, probably even correlated to a specific dialect trait: this would mean that the Rigvedic collection presents both conservative and innovative linguistic traits in a blended way, which would thus account for the fluctuant accentual behaviour. On the other hand, it is attested especially in the late Rigvedic textual layer and in the post-Rigvedic linguistic stage: it was from the late Rigvedic stage onwards, during the mantric and the prose periods, that barytonesis and oxytonesis came to be defined in an evident contrastive use (e.g. क्रष्ण ‘black’ / क्रष्ण ‘black antelope’), and also in a productive way (e.g. दारु ‘wood’ / दारु ‘wooden’). Hence, it is likely that barytonesis was progressively normalised in scholarly use: in Pāṇini’s work the -ti stems are represented as oxytones only in relation to a mantra section (A 3.3.96-97), which would mean that they are normally barytone in Vedic prose and in the bhāṣā condition.

The Rigvedic bahuvrīhi compounds also show divergent accentual behaviour, such as the oxytone tuvimaghā ‘one whose bounty is mighty’ (RV 5.33.6c), and the barytone tuvīmagha (RV 5.57.8b; 8.81.2b) with the accent on the first constituent; the barytone forms tuvivāja ‘one whose prizes are mighty’ (RV 6.18.11b) with the accent on the second constituent, and tuvivāja (RV 1.30.13b) with the first constituent stressed. Similarly, another remarkable case is the compound “pr̥thu-budhna”, which is conventionally translated as bahuvrīhi ‘broad based’ and attested in the Rigvedic collection with twofold accentuation: two occurrences with an oxytone accent as pr̥thubudhnā (RV 4.2.5d; 1.169.6c), and two occurrences with an accent on the first constituent, as pr̥thúbudhna (RV 10.47.3b; 1.28.1a).

Given these accentual fluctuations, the diachronic relationship between these compounds can only be tentatively hypothesized, also by aligning it with the supposed diachronic reconstruction of the nominal accentual behaviour, whose basic outline is given above: barytone cases such as tuvivāja ‘one whose prizes are mighty’ or tuvigrīva ‘strong-necked’, and oxytone cases such as tuvidyumnā ‘one whose splendour is strong’ are probably simultaneous; both triggered by the laryngeal accent shift in the Indo-Iranian linguistic stage, so that they present the accentuation on the second constituent. On the other hand, barytone cases such as tuviśravas-tama, with the first constituent stressed, must have emerged later, also as compared to suśrávas-tama, aligned with the laryngeal accent shift; instead, tuviśravas-tama is reasonably modelled both in compliance with the current tendency to use innovative forms of barytonesis, and in parallel to other examples such as prathamāśravas-ta-

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101 In such a fluctuant condition, a derivational contrastive accent shift may be an effective accentual criterium; cf. the alternative model by Pooth 2018.
103 In actual fact, as far as I know, current cases such as *tuvivāja or *tuvigrīva and *tuvidyumnā do not occur. As for the analogous case of suśrávas ‘one whose fame is good’ in comparison to the oxytone Greek εὐ-κλεής, cf. Lundquist 2016.
104 RV 3.45.5d; 8.45.8c; 1.91.17c.
105 As for the innovative tendency to apply barytonesis to compounds, see the case presented by Yates 2019, p. 205; as for the superlative suffix -tama, it is normally unaccented, with rare exceptions, such as the case of puru-táma, due to the usual effect of the aforementioned Indo-Iranian laryngeal accent shift.
ma ‘one whose fame is especially the foremost’ (RV 4.36.5a) or citrásravas-tama ‘one whose fame is very shining’; thus apparently corresponding to the standard Proto-Indo-European prototype. In a certain way, the innovative tendency to use barytonesis is combined with the elaborated poetry that in the late Rigvedic period renovated poetic expression in a refined way: new compounds reflect the Proto-Indo-European model, with the first constituent stressed, but consciously, like a form of refined archaism. Likewise, cases such as tuvívāja, and prthúbudhna with the unexpected accent on the first constituent must be the result of an analogous process; it is worth noticing that these barytone forms are primarily transmitted and employed in the post-Rigvedic textual repertoir. For example, unlike verse RV 6.18.11b with the form tuvívāja, the Rigvedic verse 1.30.13b in particular, in which the form tuvívāja occurs, is also mentioned in the other post-Rigvedic collections.

\textit{RV 1.30.13b indre santu tuvívājāh}

\begin{verbatim}
  indre    santu    tuvívājāh
  Indra-LOC.M.SG be-IMP.3SG [mighty-STEM-prize-STEM]NOM.M.PL.
\end{verbatim}

‘Let there be they whose prizes are mighty in relation to Indra’

Here the bahuvrīhi compound is substantivised, unlike the case of tuvívāja: the form tuvívāja denotes the category of Indra’s companions, endowed with mighty prizes as such; thus, this twofold accentuation of the same bahuvrīhi compound tuvívāja vs tuvívāja appears to mark different morpho-syntactic functions contrastively: tuvívāja works as an adjective, tuvívāja as a substantivised epithet.

The case of “prthúbudhna” ‘broad-based’ seems to confirm this tendency: both barytone and oxytone forms are found in the Rigvedic collection, but only the barytone one is transmitted and employed in the late Vedic textual repertoir; moreover, it comes to assume a technical meaning, denoting one of the stones used as a ritual tool for the soma-pressing: it is adopted in the phrase grāvan prthúbudhna, the ‘broad-based stone’, probably the mortar, which occurs in RV 1.28.1a.

\textit{RV 1.28.1ab yátra grāvā prthúbudhna ūrdhvó bhávati sótave}

\begin{verbatim}
yátra    grāvā    +    prthúbudhna
  where.ADV stone-NOM.M.SG [broad-STEM-base-STEM]NOM.M.SG
\end{verbatim}

106 RV 3.59.6c; 1.1.5b; 1.45.6a.
107 Also Macdonell 1910, pp. 92-93 points out that in the post-Rigvedic collections there is an increasing tendency to use the bahuvrīhi compound with the first constituent “regularly” stressed. Here is a list of the bahuvrīhi compounds with the accent on the first constituent, despite the Indo-Iranian laryngeal accent shift: prthúśiras (AVŚ 5.17.13a); urúdhāra (RV 8.93.3c, 8.1.10d; AVŚ 20.7.3c; TS 7.1.6.6b; VS 8.42b; ŚB 4.5.8.9; etc.); urúyuga (RV 8.98.9b; AVŚ 20.100.3b), urúloka (RV 10.128.2c; AVŚ 5.3.3c; AVP 5.4.3c, etc.). It is evident that they occur mainly in the late Rigvedic textual layer and subsequently.
108 E.g. AVŚ 20.122.1b; SV 1.153b; 2.434b; MS.4.12.4b; KS 8.17b; TS 1.7.13.5b; 2.2.12.8b; 4.14.4b. It is also mentioned in AVŚ 12.3.14a, AVP 17.51.4a, VS 1.14.
ūrdhvó + bhávati + sótave
upright-NOM.M.SG be-IND.PRS.3SG press-INF.DAT.

‘When the pressing stone, the broad based, is upright for pressing press’

Given such a pre-Pāṇinian scenario, Pāṇini’s model of the bahuvrīhi compound accounts for the linguistic situation that developed in the post-Rigvedic scholarly context, especially in relation to the Brahmanical textual exegesis. In actual fact, Pāṇini’s work only reports a few exceptions to the sūtra 6.2.1, that is only in the case of a specific lexicon is the accent posited on the second constituent (sūtras 6.2.111-120; 138), confirming that the bahuvrīhi compound retaining the original accent was uniformly accepted as the dominant model. This process developed from the late Rigvedic stage and spread within the Brahmanical scholarly milieux, as illustrated by the case of “indraśatru”, normalising the contrastive modality of accentuation as compared to determinative compounds. It is worth noticing that it is this general contrastive rule itself that became a prescriptive rule from Pāṇini onwards: the later Brahmanical scholarly exegesis, represented by Sāyaṇa’s commentary on the Rigvedic collection (XIV CE), which was aware of the peculiarity of bahuvrīhi such as prthūbudhna (ṚV 1.28.1a), tuvīvāja (ṚV 1.30.13b), and the same tuviśravas-ta-ma (ṚV 3.11.6c), needs to regulate them by quoting the Pāṇinian rule: bahuvrīhau pūrvapadaprakṛtisvaratvam ‘in the bahuvrīhi the accent of the original form is on the first constituent’.

Conclusions

Pāṇini’s model of the bahuvrīhi compound, as characterised by accentuation on the first constituent, combined with zero-ending for all the constituents, is the result of a process of linguistic uniformation and “normalisation” already operating in the earlier Brahmanical scholarly contexts and particularly correlated to that work of textual revision and canonisation fostered by the Kuru dynasty from the Middle Vedic period onwards. This was carried out by a category of skilled poet-exegetes, endowed with a refined textual and linguistic expertise, who turned the early Rigvedic textual formulation, of Indo-European heritage, into sophisticated metaphorical expressions, which were performatively very powerful, and which promoted new ideals of cosmic leadership. Īndraśatru, the locus classicus of the Brahmanical scholarly model of the bahuvrīhi compound, is an output from such a cultural milieu. Pāṇini’s work, acquainted with that Brahmanical scholarly knowledge, represents an important stage in such a process of linguistic regularisation: the bahuvrīhi compound is presented as zeroing in all its constituents which, on the one hand, is in continuity with the metalinguistic approach already developed within the learned Brahmanical context and, on the other, serves to account for the complex inflectional system, whence the morphological poly-
valence of exocentric compounds cannot be saturated by only one suffix. Nonetheless, such a morphological expertise has already belonged to the Middle Vedic “poet- exegetes” inasmuch as polyptotic constructions and etymological figures were used as poetic devices. Similarly, on the one hand, the accent on the first constituent is the token of the Brahmanical scholarly tradition, as attested by the \textit{indraśatru} case, and it is in compliance with the tendency to develop a contrastive function of the accent, already attested from the late Rigvedic textual stage onwards. However, it is also the suprasegmental marker of that morphological polyvalency of exocentric compounds, which is otherwise not immediately detectable, since it combines with zero-ending for all the constituents. Thus, zeroing and contrastive accentuation of Pāṇini’s model of \textit{bahu vrīhi} compounds appear to be in continuity with ancient Vedic linguistic and poetic tendencies, which were progressively uniformed and normalised in the Brahmanical scholarly context. And the varied expressive potential of the later refined poetry will be also founded on the linguistic polyvalency of the \textit{bahu vrīhi} compound, as “grammaticalized” by Pāṇini’s model.

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