Luwian and Sanskrit action nouns in \(^{-i}_{-h2}\)-

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Abstract

The Luwian nominal class of common gender \(a\)-stems, which has been argued to reflect Proto-Indo-European stems in \(^{-eh2}\)-, has not yet been explored to a full extent. In Cuneiform Luwian, a number of action nouns in \(-a\)-c. derived from verbs in \(-i(ya)\)-(\(^{-je/o}\)) have been noticed by scholars, but a larger analysis of all examples including Hieroglyphic Luwian is still lacking. It is the goal of the present paper to fill this gap. After a synchronic analysis of all examples, their stem formation will be compared to a similar derivational process found in Sanskrit. Consequently, the comparative evidence will shed light on the function of the suffix \(^{-eh2}\)- in Proto-Indo-European, including Anatolian.

Keywords

verbal abstract nouns – derivational morphology – parallel innovations – Luwian – Sanskrit – Old Irish

1 Introduction

Recent papers on the nominal suffix \(^{-eh2}\)- in Anatolian have demonstrated that it is used productively in combination with thematic suffixes to build agent nouns or “individualizations”, e.g. \(^{-tio} + ^{-eh2}\)- c. (Hajnal 2003: 193), \(^{-lo} + ^{-eh2}\)- c. (Sasseville 2014–15), \(^{-sio} + ^{-eh2}\)- (Sasseville 2018). In her extensive analysis of Lycian \(a\)-stems (< \(^{-eh2}\)-), Martínez Rodriguez (2018: 279–83) reemphasizes the “abstract” function of \(^{-eh2}\)-, previously known almost solely from Eichner’s (1973: 59) morphological analysis of Hitt. \(miyahu\u00fa\text{-te\u00e8s}^{(}\text{im}\text{)}\) ‘to become old’ (< \(^{mi\text{-eh2}}\text{-ent-eh1-s}\)-), in which the reconstructed noun in \(^{-eh2}\)-, i.e. \(^{mi\text{-eh2}}\)- ‘growth’, represents a deverbal abstract noun derived from the Hit-
tite verb māi-/mi(ya)- (t) ‘to grow’. Martinez Rodriguez (2018: 280) establishes the existence of this derivational process in Lycian by adducing e.g. tama- c. ‘building’ (< PIE *domēh₂ ~ *dem- ‘to build’) and xupa- c. ‘grave (< heap)’, equivalent to Hitt. ḫūppa- ‘heap, pile’ (< PIE *h₂upēh₂- ) derived from the non-attested Lycian cognate of the Hittite root verb ḫuvāpp-/ḫu(wa)pp- (t) ‘to cast, to hurl down’.

While preliminary investigations of the verbal abstract function of *-eh₂ have been undertaken, there is yet no broader study of this derivational process. Based on examples cited above, Anatolian root verbs could generate a common gender action or result noun in *-eh₂. In his monograph on Luwian nominal morphology, Starke (1990: 63 & 584) points out a number of verbal abstract nouns in -a- c. that are derived from verbs in -i- (*-i̯e/o-) whose origins have never been addressed, e.g. tümmanti- (tii) ‘to hear, listen’ → tümmantiy-a- c. ‘obedience’. Therefore, it is the goal of this paper to explore first whether the Luwian suffix -a- c. that derives abstract nouns from verbs in *-je/o- can go back to the Indo-European suffix *-eh₂- and, second, whether there is a comparable derivational process outside of the Anatolian branch that could support its reconstruction for Proto-Indo-European.

2 Luwian verbal abstract nouns in -iy-a- c.

In this section, Luwian verbal abstract nouns in -iy-a- c. and their derivational bases will be extensively analyzed in both the Cuneiform and Hieroglyphic Luwian corpora. Sasseville (2014–15: 106–07) argues that the Luwian nominal class of non-mutated a-stems should be equated with the Lycian class of a-stems going back to common gender stems in *-eh₂- (likewise Norbruís forthcoming). The lack of i-mutation in this class is the prime argument for the equation. The second argument is the Luwian dative singular in -a, which is equivalent to the Lycian locative singular in -a, both being confined to non-mutated common gender a-stems. Therefore, while investigating the Luwian suffix -iya- c., it will be important to pay attention, first, to whether it ever takes i-mutation and, second, with which dative singular ending it is inflected. In the remainder of this section, action nouns in -iya- c. with an attested deriva-
tional base will be discussed first, followed by those without an attested base. We begin with the clearest examples.

2.1 Tūmmantiya- c.

Luwian tūmmantiya- c. has been semantically compared to Hitt. ıštamaššuwar (Laroche 1959: 99, followed by Melchert 1993: 233) and translated accordingly as ‘obedience’. In his morphological analysis, Starke (1990: 134) describes the Cuneiform Luwian substantive tūmmantiya- c. as an action noun derived from the verb tūmmanți- (ti) ‘to hear, listen’, which is in turn a denominative verb in -i̯- (ti) (< *-ié/ó-) derived from the noun tūmmant- n. ‘ear’.3 Regarding its occurrences, it is found solely in Hittite contexts, though sometimes marked with a Glossenkeil: nom. sg. tu-u-ma-an-ti-ia-aš (KUB 17.10+ iv 33), <tu-um-ma-an-te-ia-aš (KUB 17.20 ii 10, acc. sg. <tu-um-ma-an-ti-ia-an (KBo 2.9+ i 49), tu-um-ma-an-ti-ia-an (KUB 24.1 iii 10’), dat./loc. sg. [t]u-um-ma-an-ti-ia (IBoT 3.83, 4’). These five attestations demonstrate that the stem-final -iya undergoes neither i-mutation nor contraction and that the dative/locative singular ending is not -i, but -a. Therefore, tūmmantiya- c. can go back to a common gender abstract noun in *-eh₂-.

2.2 Ārraḫḫaniya- c.

The following example, which is not mentioned by Starke (1990: 584), is arrah-haniya- c. This lexeme is found at least once in a Luwian context (acc. sg. a-ar-ra-ah-ňa-ni-a[n] (KUB 35.109 iii 15)) and several times in Hittite contexts (nom. sg. <ar-ra-ah-ňa-ni-ia-aš (KBo 41.210, 12’), acc. sg. ar-ra-ah-ňa-ni-ia-an (KUB 55.38 i 3), dat./loc. sg. ar-ra-ah-ňa-ni-ia (KUB 50.26+ iii 34)). The common gender stem of arrahhaniya- shows no i-mutation in the nominative or accusative singular and has a dative/locative singular in -a, which points towards an original stem in *-eh₂-. In a philological and linguistic analysis of the verb ārraḫḫani- (ti) and its derivatives, Rieken (2017) argues convincingly that ārraḫḫani- (ti) means ‘to curse, to grumble’ and its action noun ārraḫhaniya- c. ‘cursing, crumbling’.4 Thus, the abstract noun ārraḫhaniya- c. is a perfect example of a formation in -iya- derived from a verbal stem in -i- (ti) (< *-ié/ó-).

3 Contra Starke (ibid.), the participle form tūmmātaimmiš does not belong to the same verbal paradigm as that of tūmmanti- (ti) (see Melchert 1993: 232).

4 There are also a few “Hittitized” forms of the Luwian verb in Hittite contexts, i.e. ārraḫḫa-niye/a- (mi); cf. [a-ar]a-ah-ňa-nia-ad-du (VSNF 12.124, 3’) and [a-ar]-aňa-ňa-ňa-nia-at (KBo 43.14. 5’).
2.3 Tiwataniya-c.
The substantive *tiwati*na-ya-c. is attested only in Hittite contexts (gen. sg. *ti-wa-ta*-ni-ia-š (KBo 41.210 obv. 12'), dat. sg. [*ti-wa-ta*-ni-ia-š (KBo 54.99+ iii 35)). It was not mentioned in Starke’s summary of action nouns in -iya-c. (1990: 584), although its derivational base is the well-known verb *tiwati*-n(-i) (Starke 1990: 147^467). On contextual and etymological grounds, *tiwati*-n(-i) ‘to swear by the Sun-god, to utter a curse’ has been analyzed as a derivative of *tiwat-* c. ‘Sun-god’ (Watkins 1993: 470, Melchert 1993: 230, Rieken 2017: 242–43). Consequently, the action noun *tiwati*na-ya-c. should refer to the action of ‘swearing by the Sun-god, uttering a curse’. As can be seen from the two attested forms, no i-mutation occurs in the stem-final -iya of *tiwati*na-ya-c. and the dative singular ending is -a, which allow us to posit an original nominal stem in *-*eh2-.

2.4 Tarāwiya-c.
The noun *tarāwi*ya-c./trawiya-/ is attested exclusively in a Hittite context: nom. sg. *<ta-ra-a-ú-i-i-[a-š] (KBo 11.1 obv. 15), ta-ra-a-wi₂-ia-aš (KBo 11.1 obv. 44), acc. sg. *<ta-ra-a-wi₂-an (KBo 11.1 obv. 28). Goetze (1963: 60–61) connects *tarāwi*ya-c. with the Luwian verb *tarāw*-i(-n), which he interpreted as ‘to enrich’ and, thus, suggests the meaning ‘wealth’ (followed by Starke 1990: 63). Laroche (1963: 246) likewise connects it with the Luwian verb *tarāw*-i(-n), which he translates as ‘to put down’ instead, and consequently suggests for the derivative *tarāwi*ya-c. the meaning ‘calm’. However, Melchert (1992: 53) has convincingly argued that Luwian *tarāw*-i(-n) means ‘to hand over’, connecting it further with Lydian *tro*-d(-) ‘to hand over’. Thus, he translates the action noun *tarāwi*ya-c. as ‘control’; cf. the meanings of Hitt. maniyaḫḫ-(-i) ‘to hand over, to manage, to control’. Considering the context in which *tarāwi*ya-c. occurs, it definitely refers to something good that a land needs to prosper:

\[
\text{nu } D_{10} \text{ EN-IA A-NA DINGIRMEŠ [m]e-t'-ma'-ú nu-kán DINGIRMEŠ KUR-TAM an-da tákš-šu-li-it IG^HA-it ú-wa-an-du nu-kán ŠÀ-BI KUR-TI a-aš-šu <ta-ra-a-wi₂-an ták-šu-ul aš-šu-ul mi-[a-tar]-ra i-ia-an-du}
\]

KBo 11.1 obv. 27–28

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5 The other forms in which the sequence -iya- is preserved, e.g. *ti-wa-ta-ni-i-aatata* (KUB 35.39 i 23, KBo 22.254 rev. 9), *ti-wa-ta-ni-i-a-amati* (KUB 35.58 ii 3'), reflect a factitive derived from the action noun in -iya-c. For a new classification of Luwian verbal stems in /-i-0/ and /-i-ya-0/, see Sasseville forthcoming.
The Storm-god, my Lord, must speak to the (other) gods. The gods must look at the land with peaceful eyes. They must generate in the land goods, *tarāwiyan*, peace, goodness and growth.

From a Luwian perspective, *tarāwiya-*c. is clearly a derivative in -a-*c. of the Luwian verb *tarāwi*- (ti) ‘to hand over, to give over (to a god)’. The verb can be used in the negative sense of ‘handing an enemy over’ (KUB 35.45 + KBo 29.3 ii 25–26) or in a positive sense of ‘handing (offerings) over to the gods’ (KUB 35.54 ii 35’–36’). Therefore, since it can be interpreted formally as an action noun with positive semantics, a meaning such as ‘the action of handing offerings over to the gods’ or in other words ‘(religious) commitment’ is suggested here. On the other hand, the meaning ‘control’ suggested by Melchert in the sense of ‘management’ or ‘administrative control (over the land)’ cannot be excluded. Until further attestations in different contexts are discovered, the passage cited above may be tentatively translated as:

They must generate in the land goods, commitment (or control?), peace, goodness and growth.

Based on the few attested forms, one can notice that neither *i*-mutation nor contraction occurs in the derivational sequence -iya- (< *-i-*eh₂-).

### 2.5 Lappiya- *c.*

The next example *lappiya-*c., adduced by Starke (1990: 584), occurs only in a Luwian context: acc. sg. *la-ap-pí-ia-an* (KUB 35.109 ii 7’), *la-ap-pí-an* (KUB 35.109 iii 14). It refers to something negative alongside ‘woe’, ‘blood’ and ‘wailing’. Its derivational base is surely the verb *lappi*- (ti), whose semantic assignment depends on the etymological connection with Hitt. *läpp-* (mi) ‘to glow (?)’ (CHD L–N: 39–40, Kloekhorst 2008: 519). The same semantics are suitable for the Luwian verb:

\[
\text{nu-kán } \text{GIŠ} \text{a-la-an-za-na-aš } \text{KI-LI-LI}^{\text{HIA}} \ldots \text{nu kиш-an } \text{SÌR}^{\text{RU}} \text{GIŠa-aš-ta-ra-la-an}[(\cdots) \ldots] \text{la-ap-pí-in-ta}
\]

KUB 35.142 iv 8’–10’

[They …] the crowns of *alanza(n)*-wood. (The crowd) sings in the following manner: “They made […] the throne glow.”

Regarding the action noun *lappiya-*c., a sense ‘glowing’ would be expected from a morphological perspective. In comparison with Hitt. *lappiya-*c. ‘fever,
embers’, a meaning such as ‘heat, glow (?)’ has been suggested (Starke 1990: 63, Melchert 1993: 126, Kloekhorst 2008: 519, Soysal 2017: 82 ‘glowing fire, embers’). This is appropriate for the Luwian context, which requires something negative that applies to a human being. As for its morphology, Luw. lappiya- can be reconstructed as an action noun in *-eh₂- derived from a verb in *-ie/o-.

2.6 Walliya- /BONUS-li-ia- c.
The substantive walliya- c. is found once in a Hittite context and translated as ‘glory’ (Kloekhorst 2008: 948, HEG W–Z: 260): gen. sg. wa-al-li-ia-aš (KUB 19.13 i 48). It also occurs once in a Hieroglyphic Luwian inscription, in which servants incised someone’s name with glory or pride: abl./instr. BONUS-li-ia-ti (ANCOZ 8, §7). The derivational base is surely the verb walli- (ii) ‘to raise’ attested in Cuneiform Luwian. Thus, walliya- c. can be interpreted as an action noun in -a- c. derived from the verb walli- (ii) ‘to raise’ with the meaning ‘raising, exalting’ → ‘glory’. However, the two attestations available do not tell us anything regarding the presence or absence of i-mutation in this noun. Furthermore, no dative/locative singular form is attested so far. Therefore, the morphological interpretation of this lexeme as an action noun in *-eh₂- is dependent on the other examples presented here.

2.7 Wa/i+ra/i-ia- c.
In the Hieroglyphic Luwian corpus, we find the substantive wa/i+ra/i-ia-/warriya-/ c. ‘help, assistance’, which is an a-stem showing no contraction of the sequence /-iya-/: acc. pl. wa/i+ra/i-ia-zi(a) (SULTANHAN, §13), abl./instr. wa/i+ra/i-ia-ri+i (SULTANHAN, §45). Its derivational base is the verb /warriya-/ (i) ‘to help’ (BOHÇA, §7, 8, 11, 12), whose semantics were argued convincingly by Hawkins (1975: 139). Therefore, the noun /warriya/- would refer to ‘the act(ion) of helping’ and, since the first attestation listed above shows absence of i-mutation, it would represent another example of a common gender action noun in /-iy-a-/ (< *-i-eh₂-).

2.8 LEPUS+ra/i-ia- c.
In Hieroglyphic Luwian, the noun /tabariya-/ c. ‘authority’ is attested several times: nom. sg. [LE]PUS+ra/i-ia-sa (KARKAMIŠ A23, §2), gen. sg. LEPUS+ra/i-ia-sa (BOROWSKI 2), abl./instr. ta-LEPUS+ra/i-ia-ti (BOROWSKI 3, §5), LEPUS+ra/i-ia-ti (KÖRKÜN, §3; MARAŠ 1, §5). It is also found in full phonetic spelling in Hittite context as tapariya- c. ‘authority’: acc. sg. ta-pär-riia-an (KUB 40.1 rev. 19, 21, 27), dat./loc. sg. ta-pa-ri-ia (KUB 14.7+ i 7, 15), unclear [t]a-pär-ia-aš[S]a(-) (KBo 64.256, 5’). Its derivational base is most likely a verb */tabari- (ii)/, which does not seem to be directly attested. The stem

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tapariye/a-(mi), which one encounters in the literature, can actually be taken as a verb of the ḫatrāi-class instead, i.e. tapariyā(i)-(mi) ‘(intr.) to command, decide’ (KUB 13.4 iv 9), ‘(tr.) to designate, appoint (a person or a house)’ (KUB 21.1+ i 65, Bo 86/299 ii 36. ii 94 (Bronze Tablet), KUB 2.2+ ii 48) and thus can be morphologically interpreted as a denominative derived from the noun tapariya- c. ‘command’. But one may assume a variant tapar-(ti) beside *tapari-(ti) and a derivation *tapari-(ti) → tapariya-. The same situation is found with kup-(ti)/*kupi-(ti) ‘to plot’ → kupiyat(i)- c. ‘plot’. Not only the dative/locative in -a, but also the lack of i-mutation in the nominative singular speak for /tabariya/- c as a common gender stem in -a- c. (< *-eh₂-).

2.9 Lalḫiya- c.
The next example adduced by Starke (1990: 584) is lalḫiya- c. ‘campaign’, attested once in a Luwian context: acc.sg. la-al-ḫi-ia-an (KUB 25.39 iv 12). As its derivational base, Laroche (1959: 62) reconstructs a verb *lalḫi(ya) - ‘to march’, comparing Hittite cognates such as lahḫiye/a-(mi) ‘to go on an expedition’ (followed by Melchert 1993: 123). Furthermore, a mediopassive stem in -i-(ti) is attested in a fragmentary Luwian context, i.e. laḫḫintari (KUB 35.79 iv² 12’). The base *lalḫ̀i(ya)-, on the other hand, is reduplicated and must belong to a different stem class; cf. hištìya-(i) ‘to bind’, ḩanḫanìya-(i) ‘to be perturbed’. Thus, there is enough comparative evidence to make the claim that Luw. lalḫiya- c. ‘campaign’ is an action noun in -a- c. (< *-eh₂-) derived from a verb in -iya-(i); cf. /warriya-(i) above.

2.10 Zaršiya- c.
The last potential action noun in -iya- c., which was also adduced by Starke (1990: 37), is zaršiya- c. ‘guarantee, safe conduct’ found solely in Hittite contexts: nom.sg. <za-ar-ši-ia-aš (KUB 14.3 ii 63), <za-ar-ši-ia-aš (KUB 8.79 rev. 14), acc.sg. <za-ar-ši-ia-an (KUB 14.3 ii 62), dat.sg. <za-ar-ši-ia (KUB 14.3 ii 1), <za-ar-šì-ia (KUB 14.3 ii 65), za-ar-šì-ia (KUB 8.79 rev. 4). This substantive shows a dative singular in -a and a lack of contraction or i-mutation in the sequence -iya-. Morphologically, it can be interpreted as an action noun derived from an unattested verb *zarštì-(ti) ?'.

Based on the preceding analysis, verbal abstract nouns in -a- c. are derived from verbs in -i-(ti) (< *-i̯é/ó-) or in -iya-(i) (cf. Hitt. -āi-/-i(ya)-(hi)). The large number of examples demonstrates that this process is highly productive in Luwian. As to the prehistory of the suffix -a-, the lack of contraction and of

i-mutation combined with the dative/locative singular ending -a speaks for an origin in PIE *-eh₂-. Consequently, there is now evidence for a derivational chain creating verbal abstract nouns in *-eh₂- based on verbal stems in *-ie/o- in Anatolian. In the next section, a parallel derivational chain in another branch of the Indo-European family will be addressed.

3 The Sanskrit suffix -yā- f.

The Sanskrit language of the Indo-Iranian branch has a suffix -ā- f. going back to *-eh₂- which is productive in forming derivatives from both primary and secondary verbal stems. This includes deverbal derivatives such as desideratives in -s-, e.g. सुश्रुष- ‘to want to listen’ → सुश्रुषाः f. ‘obedience’, जिगिषा- ‘to be greedy’ → जिगिषाः f. ‘the wish of achieving, greed’, भिक्षा- ‘to desire to have a share for oneself’ → भिक्षाः ‘the wish of begging’ (AiGr. II, 2: 242–43, Tucker 1988: 101), and root verbs, e.g. निन्द- ‘to rebuke’ → निन्द-ā- f. ‘reproach’, राध- ‘to succeed’ → राध-ā- ‘success’, ध्वर- ‘to cause to fall’ → ध्वर-ā- ‘causing to fall’ (AiGr. II, 2: 245–47). Furthermore, the same nominal suffix is productive with verbal stems in -ya- (< *-ie/o-), e.g. त्रस्य-ya- ‘to be thirsty’ → त्रस्य-ā- f. ‘thirst’ (cf. त्रस्यांत- with Hitt. mıyabû-unt-ešš-(mi)), दा-ya- ‘to take part in, to sympathize’ → दा-ā- f. ‘sympathy’, ग्रध्य-ya- ‘to be greedy’ → ग्रध्य-ā- f. ‘greed’, अपास्य- ‘to be active’ → अपास्याः f. ‘activity’, अर्गाया- ‘to hunt’ → अर्गायाः f. ‘hunt’, वासस्य- ‘to be audible’ → वासस्याः f. ‘eloquence’ (AiGr. II, 2: 243–44), नामस्या- ‘to do reverence’ → नामस्याः f. ‘the act of doing reverence’. All these derivatives designate the actions of their verbal bases and are thus genuine verbal abstract nouns. The derivational chain -yā- f. in Sanskrit further belongs to a productive system including participles in -y-ánt- and agent nouns in -y-ú-, e.g. अवास्या- ‘to seek help’ → अवास्यांत- ‘seeking help’, अवास्याः ‘seeking help, helping’.

7 Whether one takes tṛṣ-ya-as a deradical formation or a denominal formation derived from the co-existing root noun is a more general problem within the reconstruction of the Proto-Indo-European language. However, it is likely that this ambiguity was also perceived by native speakers of Proto-Indo-European, which may have been the starting point for the extension of the derivational process: deradical → denominal.

8 Gotō 2013: 53 & 130–31. These formations also acquired a desiderative sense, whose origin has not always been clear. Tucker (1988) argues that the desiderative value comes from formations in -sánt-, -sú- and -sá-. Furthermore, she claims that since the full system of parallel derivatives in -yāti, -yā-,-yā- is productive only in the Saṃhitās, that this might indicate that the extension of -yā-, -yánt- and -yā- to form new derivatives with double desiderative and non-desiderative value is a poetic feature (Tucker 1988: 11323).
Because of the unclear morphemic analysis of certain examples, the morphological origins of these suffixes have long been obscure. In cases where roots end in -ay, it has been questioned whether the suffix was really -yā- or -yū- or simply -ā- or -ū-, e.g. tāyū- ‘thief’ ← Av. stay-āt ‘stolen’, māyā- ‘magical power’ and dur-māyū- ‘using evil craft’ ← mī- ‘to deceive’ (AiGr. II, 2: 469–70). However, on comparative grounds, the first example is actually a root ending in a laryngeal, whereas the glide is part of the verbal suffix; cf. OIr. táid, OCS tatъ < *tāh₂-ti- m. ‘thief’, Gk. τῆθη f. ‘lack’, Hitt. tāye/a-(mi) ‘to steal’ < *tēh₂-ie/o-. Even though the Indo-Iranian branch may have created a neo-root *teh₂(ī)- including the glide, the comparative evidence of Gk. τῆθωσίς ‘in vain’ requires the reconstruction of the derivative *teh₂-i̯-ū- already in the common prehistory of Greek and Sanskrit (LIV²: 616). The second example māyā- has a highly debated etymology, and the analysis of the derivation depends strongly on the shape of the root. An etymological connection with the root *meh₁- ‘to measure’ has been defended. In this case, one could assume that the derivational chain was *meh₁-i̯éh₂-, unless one posits a verbal formation in *-je/o-, i.e. *meh₁-je/o-, as the derivational base of the action noun in -ā- (and the agent noun in -ū-). However, independent evidence for a PIE present in *-i̯e/o- derived from this root would be welcome (cf. LIV²: 424). There is a different etymological connection with the root *meih₁- ‘to grow’, in which case the glide would indeed be part of the root, while the derivative in -ā- (and -ū-) would be directly derived from the root verb. In any case, as long as the etymology of an example is not assured, it cannot be used to determine the origin of the underlying morphological process.

There is an existing view that the derivational chain described above owes its existence to a primary suffix -yā- or -yū-, which was derived directly from verbal roots (AiGr. II, 2: 243). For example, Stüber (2012: 127–28, 2015: 113) takes as prototype Skt. sarvavidyā- f. ‘all-knowing’ ← ved- (against older-looking vidā- f. AiGr. II, 2: 247) and śayyā- f. ‘warehouse’ ← śay- ‘to lie’ (against older śayā- in śayāsu AiGr. II, 2: 247), because she posits that the origin of the abstract suffix *-i̯eh₂- lies in the collective form of the neuter suffix *-i̯o-. However, sarvavidyā- is much more likely to represent a late formation instead of an inherited process, which would indicate that the suffix was metanalyzed from -y-ā- to -yā- within the history of Indo-Iranian. In the next section, we will turn to the origin of the process and address the Celtic data cited by Stüber.

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9 Albino (2012) raises the possibility that dur-māyū- is a haplological form of *dur-māya-yū-.
10 KEWA II: 624 with further literature.
11 KEWA II: 624 with further literature. Cf. also Yakubovich (2010) for a different reconstruction of the root.
4 The origin of the derivational process

On the basis of the Anatolian data, which was until now unknown to the wider Indo-European literature, the original derivational pattern can be more precisely reconstructed. First, it is known that the suffix *-eh₂ - was productive in deriving verbal abstract nouns from root verbs, e.g. *bʰeufₘₜ- ‘to flee’ → *bʰu fgetsₘₜ- ‘flight, escape’ (Gk. φυγή, Lat. fuga), *gʰeₘₜn- ‘to strike’ → *gʰenₘₜn- ‘the action of striking’ (Gk. φοναί ‘bloodbath’, Cz. ú-hona ‘wound’, both having developed to result nouns). Further examples of this type in Hittite, which would make a welcome addition, have never been properly sought. Kimball (2015) looks for the Indo-European τομός-type of noun formations in Hittite and ends up tracing all oxytone result nouns in -ā- to this type, e.g. parš- ‘to break’ → paršā- c. ‘crumb, morsel; ḫarp- ‘to combine’ → ḫarpā- c. ‘heap’, but a consideration of the type in *-eh₂ - is completely missing in her analysis. Since Proto-Indo-European stems in *-o and *-eh₂ - merged paradigmatically in Hittite, a distinction between the τομός- and the τομή-types will not be demonstrable without a Luwian or Lycian cognate.

Considering that root verbs co-existed with verbs in *-je/o-, the suffix could have easily been extended first to deradical stems in *-je/o-, e.g. *uₘₜH-je₁₂- (Luw. walli-(t) ‘to raise’) → *uₘₜH-je₂₂- (Luw. walliya- c. ‘raising, glory’) and gʰdlₘₜ-je₁₂- (Skt. grdhya₁₂- ‘to be greedy’) → gʰdlₘₜ-je₂₂- (Skt. grdhya₂₂- c. ‘greed’), and second to denominatives in *-je/o-, whose productivity is assured for both Luwian and Sanskrit. Furthermore, the extension of the abstract suffix *-eh₂ - to the verbal suffix *-je/o- is supported by the parallel extension to Sanskrit desideratives in -ṣ- (< *-se/o-), e.g. bhiksā- ‘the wish of begging’ ← bhikṣa- ‘to desire to have a share for oneself’. Thus, abstract nouns in *-eh₂ - could be derived from various kind of verbal suffixes. The question then becomes which derivational process was present already in Proto-Indo-European and which must be considered an independent innovation of the two separate branches. The productivity of *-eh₂ - with denominative stems in *-je/o- is not likely to be inherited despite its existence in Anatolian (though so far only in Luwian) and Indo-Iranian (only in Sanskrit), especially if one considers how difficult it is to reconstruct denominative verbs based on word equations for Proto-Indo-European. Therefore, this derivational process is more likely to be an independent innovation of Luwian and Sanskrit. On the other hand, the extension of the derivational process of

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12 Rix (1979: 736). For their remarkable productivity in Ancient Greek, see Chantraine (1933: 18–26).

13 On the Proto-Indo-European etymology, see EWA: 474.
*-eh₂- suffixation from verbal roots to deradical verbs in *-je/o- can be safely reconstructed for the protolanguage.

Before concluding, a similar suffix that has recently been discussed in Celtic will be addressed. Stüber (2015: 113–14) addresses the morpheme *-i̯ā- within the Celtic branch and argues for the existence of an inherited Indo-European suffix *-i̯eh₂- derived from verbal roots, e.g. OIr. rīge ‘stretching’ (< *rīg̑i̯eh₂-) beside OIr. rīgid ‘to stretch, rule’ (< *rīg̑-/rīg̑-). However, some of her examples clearly co-existed with a deradical verb in *-je/o-, e.g. OIr. guide f. ‘plea, prayer’ < PIE *gūhedʰi̯eh₂- beside OIr. guidid ‘asks for, prays’, Gk. θέσσαμι ‘to ask, to be a suppliant’ and Av. jaišuemi ‘to beg’ < PIE *gūhedʰi̯e/o-,¹⁴ OIr. fīge f. ‘weaving’ < PIE *uēgí̯eh₂- beside OIr. -figther ‘is woven’ < PIE *uēgie/o-, OIr. slaide f. ‘strike’ beside OIr. slaidid ‘strikes’ < Proto-Celtic *sladʲe-. These examples would speak for the existence of *-eh₂- derived from deradical verbs in *-je/o- in Celtic. Stüber nevertheless takes the Celtic derivatives in *-i̯eh₂- that are found beside root verbs as prototypes of this derivational process. However, such an incomplete synchronic picture is also found in Anatolian, where a prehistoric verb in *-je/o- must be posited beside the attested root verb (see Section 2.8). Consequently, instead of taking Proto-Celtic *CVC- : *CVC-i̯eh₂- as the prototype of the derivational process, it would be preferable on morphological grounds either to restore the missing formation in *-je/o- or to assume a metanalysis of the suffix from *CVC-i̯-eh₂- → *CVC-i̯eh₂-.

In sum, having established the process *CRC-i̯eh₂- for Luwian, Sanskrit and additionally Old Irish, its genesis can be posited for the Proto-Indo-European stage. The development of the morphological process can be postulated as follows:

PIE  1. *CoC-éh₂- / *CRC-éh₂-
PIE  2. (deradical *-je/o-) *CRC-i̯-eh₂- (Luwian, Sanskrit, Old Irish)
Post-PIE  3. (denominal *-je/o-) *CERC-VC-i̯-eh₂- (Luwian, Sanskrit)

5 Conclusion

The derivational chain of deradical *-je/o- + *-eh₂- building verbal abstract nouns occurs in at least three branches of the Indo-European family, i.e. Anatolian, Indo-Iranian and Celtic. On the basis of the comparative data adduced above, the creation of this derivational chain is argued to have begun already

in the Proto-Indo-European period. Two further developments of this derivational type can be observed in these languages. In Luwian and Sanskrit, the suffix *-eh₂- was extended to denominal verbs in *-je/o-, and then, in Sanskrit and Old Irish, it seems to have been metanalyzed to *-feh₂-. These two innovations must however be considered late and independent.

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