

# **Tocharian B agent nouns in -ntsa and their origin** Friis, L.S.

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## Tocharian B agent nouns in -ntsa and their origin

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#### **Abstract**

The agent noun suffix in -ntsa belongs to a complex of Tocharian B agent noun formations, similar in form, function, and inflection. Of these, two suffixes are widely believed to be related to -ntsa: the productive agent noun in -ñca and the lexicalised agent noun in -nta. The suffix -ntsa forms occupational titles to eleven verbs in Tocharian B and can be reconstructed for Proto-Tocharian through comparison with Tocharian A. In this paper, it is argued that the suffix originated in the feminine of the PIE active participle in \*-nt. This is substantiated by the fact that several ntsa-nouns refer to primarily female professions, as well as the existence of the relic forms \*premtsa 'pregnant' and \*lāntsa 'queen'. Furthermore, it is proposed that the masculine is reflected in the suffixes -ñca and -nta and that the disintegration of gendered inflection in the participle led to its development into several agent noun formations.

#### Keywords

Indo-European – Tocharian B – agent nouns – participles – feminine gender

#### ı Introduction

In the past decade, a group of competing suffixes forming agentive nouns in the Tocharian languages has received increased attention. Not only is their exact synchronic interpretation disputed, but the debate surrounding their origins has even proved to be of importance to our reconstruction of PIE.<sup>1</sup>

<sup>1</sup> PIE = Proto-Indo-European (including Anatolian), PT = Proto-Tocharian; TB = Tocharian B, TA = Tocharian A; \* after a form indicates an inferred nominative (singular);  $^{\circ}$  indicates part of a compound.

Tocharian agentive formations TABLE 1

Tocharian B	Tocharian A
prsñca,ª e.g., weṣṣeñca 'speaker, speaking'	prsnt, e.g., kärsnānt 'knower, knowing'
prs./sbjnta, e.g., weñenta 'orator'	<sup>sbj.</sup> -nt, e.g., <i>pekant</i> 'painter'
sbjntsa, e.g., wapāntsa 'weaver'	sbjnts*; cf. wāpaṃts* 'weaver'b
sbjuca: e.g., kärsauca 'knower, knowing'	
prs <i>uki</i> : e.g., <i>erṣuki*</i> 'evoker, evoking'	
prsmo, e.g., cämpamo 'being able'	prsm, e.g., cämpam 'being able'

a These agentive nouns are formed to either the present or the subjunctive stem, here indicated by superscript prs. or sbj.

A remarkable fact is that TB shows a significantly larger inventory than TA; cf. Table 1.2

In terms of attestation, TB prs.-ñca and TA prs.-nt are by far the most numerous, and these two are therefore generally taken as equivalents in Tocharian scholarship. Although the suffixes resemble each other formally, the palatalization in TB prs.-ñca excludes an exact phonological match. Additionally, it has been shown that both prs.-uki and sbj.-uca are functionally and syntactically equivalent to prs.-ñca in TB (Schaefer 1997; Itkin & Kuritsyna 2020). These suffixes exist in the grey area between agent noun and participle (Dietz 1981: 13, 144), showing features of both word classes. Agent noun features include that they do not inflect for gender, that they have a substantival declension (cf. Table 2), and that they are found most often in substantival function (Peyrot 2017: 328-329). Participial features include the fact that they can occur in attributive position as adjectives, that they are sometimes modified by adverbs, and that they govern an object in the oblique (Fellner 2017). However, other transitive verbal nouns also govern an object in the oblique, e.g., the verbal abstract in <sup>B</sup>-lñe, <sup>A</sup>-lune which is purely substantival ( $TEB_1$ : 187–188). In the present article, I will use the term 'agent noun' to refer to these formations with the caveat that their interpretation is not clear-cut.<sup>3</sup>

b The only TA form with this suffix, wāpamts\*, is assured from the abstract wāpāmtsune 'weaving' (YQ 1.21 a8).

<sup>2</sup> Sometimes forms in <sup>B</sup>-tstse, <sup>A</sup>-ts are included in discussions of agent nouns because of forms like Bkäryortstse 'merchant' and Aamokäts 'artisan'; cf. Adams (2015: 142). It is however clear that these forms are secondary substantivizations of primarily denominal adjectives; cf. Fellner (2014a), Itkin & Kuritsyna (2020: 83 fn. 1).

<sup>3</sup> B-mo, A-m is generally accepted as an agentive verbal adjective and will be left out of the discussion here.

TABLE 2 The agentive a-declension<sup>a</sup>

kauṣeñca 'killer, killing'
kaușeñca
kaușeñcai
kaușeñcai
kaușeñcantse
kaușeñcañ
kauṣeñcaṃ

a TEB<sub>I</sub> classifies it as adjectival (class II.1.3, § 233), but the vocative singular in -ai and the genitive singular in -antse are both substantival features.

There are two TB agentive suffixes that form purely substantival agent nouns. One is prs./sbj.-nta, found with a small number of verbs. These never occur in attributive position, pace Fellner (2017: 77), and consist of lexicalised relics, sometimes found next to newer looking  $\tilde{n}ca$ -forms, e.g.,  $we\tilde{n}enta \sim wesse\tilde{n}ca$  to protection 100 wealth of the other is protection 100 which forms agent nouns denoting occupations and seems to have been somewhat productive in the prehistory of TB. These two suffixes also share the agentive protection 100 as well as a remarkable similarity in phonological structure to the suffix protection 100 and protection 100 are protection 100.

From an etymological point of view, a connection between the agent nouns with a formant in /-NTa/4 and the PIE \*nt-participle is obvious. This connection is mirrored by the existence of another verbal nominal, <sup>B</sup>-mane, <sup>A</sup>- $m\bar{a}m$ , an exact formal match for the Indo-European middle participle \* $-mh_Inó$ -; cf. Gk. - $\mu\epsilon\nu\sigma\varsigma$ , Skt. - $\bar{a}na$ -, - $m\bar{a}na$ -, Av. -mna-, Arm. -own (Klingenschmitt 1975: 159–163). It is notable that neither <sup>B</sup>- $\tilde{n}ca$ , <sup>A</sup>-nt nor <sup>B</sup>-mane, <sup>A</sup>- $m\bar{a}m$  shows a synchronic affinity with active or middle voice. This has led scholars to conclude that they were not marked for voice in the proto-language until after Tocharian split from the rest of IE; cf. Melchert (1983: 24–25), Malzahn (2010: 480), Pinault (2012: 179). However, in the small group of verbs in Tocharian that show a semantic difference between active and middle, there is a clear tendency for <sup>B</sup>-mane, <sup>A</sup>- $m\bar{a}m$  to have the semantics of the finite middle, while forms with <sup>B</sup>-nca, <sup>A</sup>-nt always show semantics related to the finite active. <sup>6</sup> This demon-

<sup>4</sup>  $N = n, \tilde{n}, m, T = t, c, ts.$ 

<sup>5</sup> For the synchronic use and function of B-mane, A-mām, cf. Peyrot (2017).

<sup>6</sup> The verbs in question are intransitive in the present middle and transitive in the present

strates that at a prestage of Tocharian these forms were indeed assigned to middle and active voice respectively; cf. also Fellner & Grestenberger (2018: 68-69, 74–78).

The hypothesis that the agent nouns in /-NTa/ go back in some way to the PIE active participle in \*-nt- raises new questions: why did they develop into agent nouns, why are there so many competing suffixes in TB compared to TA, and how are these are related within the history of Tocharian? In this article, I would like to present a new explanation for the origin of one of these suffixes, which in part answers all three questions.

#### Occupational titles in -ntsa 2

The occupational agent noun suffix -ntsa is given as -(t)tsa in the handbooks of the 20th century, mostly as part of a list of deverbal agent nouns; cf. Krause (1952: 47), TEB<sub>1</sub> (151), Pinault (1989: 83), Hilmarsson (1991: 124–125). Schmidt (2001: 20) proposed that the suffix was to be read -ntsa rather than -ttsa on the basis of Awāpāmtsune 'weaving' (YQ 1.21 a8), an abstract derived from an unattested Awāpämts\* 'weaver'. The ligatures for (ntsa) and (ttsa) are quite similar; however, the spelling (mtsa), equivalent to (ntsa), is unambiguous. Since then, this interpretation has become the communis opinio. It has broken the link with what had previously been a core member of the class, <sup>B</sup>aknātsa, <sup>A</sup>āknats 'fool(ish)', which is always written with single (tsa), never (ttsa).8 On the other hand, the suffix can now be added to the group of TB agent noun suffixes with the phonological structure /-NTa/. The discovery of Awāpämtsune 'weaving' also meant that the suffix could reasonably be traced back to PT.

Since many of the *ntsa*-forms are attested only once or twice, their exact meanings are often hard to establish. Some can, however, be determined

active. These are Bnak-ṣa/se- 'destroy; mid. perish', Bpak-ṣa/se- 'ripen, cook', Bluk-ṣa/se- 'illuminate; mid. be illuminated', "btsək-sə/se-'burn', "Atäm-näsä/sa-'beget, generate; mid. be born'. The intransitive meaning is found in <sup>B</sup>päksemane (THT 107 a2) 'cooking (itr.)', <sup>B</sup>tsäksemane (IOL Toch 5 a4) 'burning (itr.)',  $^{A}tm\ddot{a}msam(\bar{a})m$  (A 152 b4) 'being born'. The transitive meaning is found in Bnäkṣeñca (PKAS 2B a2, PKNS 48 a5, THT 30 a6, SIP1 a3, THT 252 a2, THT 1919 b3) 'destroyer, destroying' and Atmämsant (A 292 a8) 'generating'. The only counterexample is found in  ${}^{B}n\partial k$ , to which the one attested mane-form in all likelihood is transitive:  $n\ddot{a}ksemane$ (90K-58F-01 a3) 'destroying'; cf. Ogihara (2015:150-152). Remarkably, all but one of these verbs have solid Indo-European etymologies; for Atäm-, cf. Malzahn (2010: 654).

<sup>7</sup> Unlike the preterite participle from the PIE perfect participle \*-uos-, which remained adjectival; cf. Pinault (2008: 530-531), Peyrot (2010).

<sup>8</sup> Whether the two are related farther back is still a subject for debate (cf. section 6).

through Sanskrit parallels. One such form is  $tark\bar{a}ntsa^*$  (PK NS 107 b1) 'carpenter', which translates Skt.  $tak\bar{s}aka$  'id.' (Thomas 1977: 110). Another is  $wal\bar{a}ntsa^*$  'hindrance', attested once in the oblique plural (THT 229 b1–b2), which corresponds to Buddhist Sanskrit  $n\bar{v}arana$ - 'disturbance, hindrance'. It is derived from "Bwala-10" 'cover' with a semantic development similar to the Tibetan translation of the term:  $chod\ pa$  'covering over' (Edgerton 1953: 311; Adams 2013: 631). The meaning of  $wap\bar{a}ntsa$  'weaver' is also beyond dispute. The derivational base is the verb "Bwapa-'weave' (sbj.[5], prt.[1]). It is attested once in a fragment of the Jyotiṣka-Avadāna in THT 1165+1548 b2 (Ogihara 2012: 113) and thrice in THT 375 (a2, a4, b2), in apposition to the male personal name Varddhane as a professional title. A possible fifth attestation is wawamntsa, found in a cave inscription in Qizilgaha (Kg-025-ZS-R-012; cf. Ching & Ogihara 2020: 275).

The form taktsāntsa (U 5208 a7-a8) is interesting, especially from an Indo-European perspective, since it has long been connected to Skt. tákṣaṇ-, Gk. τέκτων 'carpenter'; cf. K.T. Schmidt apud Mayrhofer (1992: 614) and J. Schindler apud Ringe (1996: 4). It is translated by Schmidt as 'einer, der etwas kann'. Accordingly, Ringe (Lc.) argues that the form might be influential in the understanding of so-called thorn-clusters in Tocharian; it must be a very archaic form to which the base verb has been lost. The form is found in a TB—Old Uyghur bilingual. The Old Uyghur equivalent of the form reads <u - č1>, restored by Maue (2015: 505) to *udači*, a present participle in *-dači* with agentive meaning (Clauson 1972: 2). This would have meant 'einer, der etwas kann; Könner' to the verbal root *u*- 'be capable'. It is highly likely that Schmidt's proposed meaning of the Tocharian form is based on the same restoration of the Old Uyghur. However, in the edition of the bilingual, Peyrot, Pinault, & Wilkens (2019: 79) argue that the lacuna in the Old Uyghur form is too big for the single akṣara <da> and restore instead *uvdači*, likewise a present participle, but to the verb uv- 'crush, crumble'. The Tocharian form would thus be an ntsa-form from the root <sup>B</sup>*taksa*- 'destroy, smash' with *t*-epenthesis possibly meaning 'crusher, grinder', which also on semantic grounds would be more attractive as an occupational agent noun than 'Könner'. The link to tάkṣaṇ-, τέκτων should therefore be given up.

<sup>9</sup> Although the meaning is reasonably assured, the exact verbal base of this form is disputed. Thomas (*l.c.*) suggests <sup>B</sup>tärk- 'twist', but since this root is not *a*-final, Malzahn (2010: 486) proposes a new root <sup>B</sup>tarka- 'do carpentry vel sim.'

For the vowels in TB in attested or inferred forms, I use the standard conventions:  $\bar{a}$  indicates  $/\dot{a}/$ , a indicates /a/ or  $/\dot{a}/$ , and  $\ddot{a}$  indicates /a/. In verbal roots, I use -a- and -a- following the convention in Peyrot (2013).

<sup>11</sup> According to Wilkens (2021: 784), other instances of *udači* should be taken as mistakes for *udči* 'cowherd'.

The meanings of the forms without extra-Tocharian parallels have to be determined purely on the basis of their derivational base verb. These forms are most commonly found in monastery accounts and often in very fragmentary contexts. First off is *naskāntsa\** 'spinner'. It is attested once in THT 2718 a6 and its meaning is determined on the basis of <sup>B</sup>naska- 'spin' (Pinault apud Ching 2010: 266). The attested form is remarkable because it shows the feminine plural ending -na with the addition of the genitive plural -ns:

```
/// [na]s[ka]tsānaṃs cokiś ṣalywe wsāwa ṣaṅk ///
THT 2718 a6
```

'I gave lamp oil to the spinstresses: 1 pint'

A recently discovered *ntsa*-noun is *paikāntsa*, attested twice in a Qizil cave inscription (Kz-181-ZS-Z-01; cf. Ching & Ogihara 2020:109). Clearly derived from the verb <sup>B</sup>*payka*- 'paint, write', it is very likely that this word means 'painter'. In line 1, it is found in the nominative singular in apposition to a male personal name: *paikāntsa Raktasene* 'the painter Raktasene'. In the second line, we expect a comitative plural, but find a corrupted form instead: *ṣkas paikāntsām-pa* 'along with six painter(s)'.

The word *sarāntsa\** is attested once in the genitive plural (Tumšuq 97 a2–a3); cf. Pinault & Ogihara (2010:185). It is quite likely derived from the verb <sup>B</sup>*sar*-'plant' and could therefore mean 'planter' (or possibly 'gardener'?).

For warwāntsa\*, attested five times in the perlative singular warwantsaisa (Ching 2010: 251), it is more difficult to determine the meaning as there are several candidates for the base verb: Bwərpa- 'receive, enjoy', 12 Bwarpa- 'sur-

The texts in which *warwantsaisa* is found are late, so the change *-rp-* > *-rw-* would be regular for both <sup>B</sup>*warpa-* and <sup>B</sup>*warpa-* (Peyrot 2008: 88). If to <sup>B</sup>*warpa-*, the spelling ⟨wa⟩ for expected ⟨wä⟩ must be a scribal error. That it could be "built from the root-stressed subjunctive" (Adams 2013: 630) seems unlikely, since most other *ntsa-*forms are in fact built to root-stressed subjunctives of class [5], yet show medial accent.

round', or <sup>B</sup>warwa- 'be urged'. Adams (2013: 630) makes a good case for the first option, suggesting that the *warwāntsa\** was a receiver of goods. This fits well with use of the perlative, which can be translated 'through' or 'by way of':

```
warwantsaisa cokașe șalywe wsā(wa)
THT 2718 a5
```

'I gave lamp-oil by way of the [monastery's] receiver of goods' tr. ADAMS: his brackets

The form *sparttāṃtsa* is found once in THT 558 a2. It is derived from <sup>B</sup>*spartta*- 'turn (itr.); behave', to which also the noun <sup>B</sup>*spārtto* 'discipline' is formed. Adams (2013: 783), followed by Itkin & Kuritsyna (2020: 90), translates '± scrupulous person' in the sense "one who behaves hypercorrectly." In the passage, however, it seems to refer to a person who practises asceticism habitually, rather than someone who only does it for show to receive gifts from laymen; cf. Chen (2019: 224–226).

ompostām sparttāmtsa sū pañākte kä-<sup>a3</sup>ṣṣintse palsko yänmāṣṣeñca mäsketrä

THT 558 a2-a3

'[If] afterwards [he is] a practitioner [of discipline], he becomes an achiever of the mind of the Buddha teacher'

The form <code>mall[a]ntsasmem</code> (THT 4062 aı) was first identified by Schmidt (2001: 20–21) who translates 'vintner' (German 'Kelterer, Winzer'). He suggests that the form is derived from <code>Bmala-</code> 'oppress, deny'. In this case, the form would show an archaic semantic step between PIE <code>\*melh2-</code> 'grind, mill' (cf. Hitt. <code>malla-i</code>, Lat. <code>molo</code>, Got. <code>malan</code> 'id.') and Tocharian. Subsequently, however, it has been established by Ching (2013: 69) that the text does not pertain to winemaking, so it is quite unlikely that <code>mallantsa\*</code> would mean 'winemaker'. Another major problem with the form is of a morphological nature. The form clearly contains the ablative case suffix <code>B-mem</code>, preceded by <code>-s-</code>. In Tocharian, the secondary case suffixes such as the ablative are added to the oblique stem. If the form is an <code>ntsa-form</code>, one would expect either singular <code>†mallantsaimem</code> or plural <code>†mallantsaimem</code>; cf. the discussion in Ching (<code>l.c.</code>). Unfortunately, that means that both the morphological analysis and the exact semantics of the word are beyond our reach at the moment.

An interesting case is  $t\ddot{a}llaik\bar{a}ntsa^*$ , found twice in monastery records. The derivational base does not correspond to any known verb, as verb bases are rarely trisyllabic. Instead, it has been suggested that the word is a compound with an ntsa-form as final member. Adams (2013: 315) suggests that the first member is  $t\ddot{a}lle$  'burden', compounded with 'ikantsa to the verb 'ikantsa' to mean 'burden-goer' ikantsa' for proposes  $t\ddot{a}lle$  ikantsa' burden-knower' to 'ikantsa' know'. Elsewhere, the noun  $t\ddot{a}lle$  'burden' is only found in ikantsa 'burden etymologicae with the verb 'ikantsa' (Adams 2013: 300). In the following passage, Adams (2013: 315) restores a genitive plural  $t\ddot{a}llaik[a]nts[ants]$  and translates "five women of the porters". In the manuscript, however, there does not seem to be room for an extra akṣara itantsa (cf. Ching 2010: 284), so a restoration to oblique plural is preferable:

```
ikäm \tilde{n}une piś tällaik[a]nts[am] tlaiyn(a)^{13} ///
THT 484 a2
```

'On the 29th (day), five tällaikantsa-women ...'

A third possibility would be to segment the form differently:  $t\ddot{a}l$ - $laik\bar{a}ntsa$ . In this case, the ntsa-form would be derived from the verb  $^Blaika$ - 'wash' compounded with an unknown first element  $t\ddot{a}l^\circ$ , or  $t\ddot{a}r^\circ$ .

Another possible case of a compound ntsa-form is k(e)wyomntsai, likewise found in the monastery records (THT 2694.2). Ching (2010: 242, 400–401) identifies it as an occupational title next to a female personal name:  $///k \cdot wyomntsai Sumapriśkai[m]n(em)$  /// 'from Sumapriśka, the X'. Ching & Ogihara (2010: 97 fn. 43) suggest that the word consists of  $ke_u$  'cow' and an ntsa-form to the verb  $^Byanm$ - 'get' and propose the meaning 'cattle-keeper'. If this is the case, this passage would be clear evidence that ntsa-forms can have feminine reference as well as masculine much like  $\tilde{n}ca$ -forms; cf. the masculine varddhanem wapantsai (obl.sg., THT 375 b2) 'Varddhane the weaver'. However, it is not completely clear how they arrive at the suggested meaning considering the meaning of  $^Byanm$ -'get, obtain, reach'. Finault apud Ching (2010: 401 fn.

<sup>13</sup> *tlaiyna* should be read *klaiyna* obl.pl. 'women' (Sieg & Siegling 1953: 302).

An interesting suggestion from one anonymous reviewer is that the second member is derived from <sup>B</sup>au-n- 'hit, pierce' with the compound meaning 'cattle-prod'. This would necessitate the adjective *kewiye* 'bovine' as first member since the -y- of the form would otherwise be unexplained. However, a derived adjective in this position would be quite unusual in TB grammar, making the suggestion less likely than that of Ching & Ogihara (2010: 97 fn. 43); cf. Adams (2017: 1378–1379) for Tocharian compounds in general. <sup>B</sup>ka<sub>u</sub>rṣe,

91) offers another interpretation, namely that k(e) wyomntsai is the feminine oblique singular of an adjective kewye, \*, showing the late TB sound change -aun- > -omn- (Peyrot 2008: 52).15 In that case, it would probably have been derived from the adjective kewiye 'bovine; butter', found several times in the monastery records as *kewye*, rather than directly from *ke*<sub>u</sub> 'cow'. Semantically, this would fit quite well with the translation 'cattle-keeper' in light of the pair *yenme* 'gate' → *yenme*<sub>u</sub> 'gatekeeper' (Adams 2013: 546). Ching & Ogihara (*l.c.*) identify the title later in the same text, this time in apposition to a man Sumaiyśe\*:  $\lceil k \rceil e \cdot \lceil o \rceil$  (THT 2694.8). If this reading is correct, it would be an argument in favour of the *ntsa*-interpretation, since the masculine oblique of an adjective in  $-e_n$  should end in *-ent* and thus cannot have an *o-*vowel. However, the passage is too broken to be definitive, and on semantic grounds, Pinault's suggestion is preferable.

In the end, 11 *ntsa*-forms may be considered reasonably certain:

_	wapāntsa	'weaver'	THT 1165+1548 b2,
	cf. <sup>A</sup> wāpäṃtsune 'weaving'		THT 375 a2, a4, b2, Kg-025-
			ZS-R-01 2
_	naskāntsa*	'spinner'	THT 2718 a6
_	tällaikāntsa	'?-washer (?)'	THT 444 a, THT 484 2
_	taktsāntsa	ʻgrinder (?)'	U 5208 a7-a8
_	paikāntsa	'painter'	Kz-181-ZS-Z-01 1, 2
_	tarkāntsa*	'carpenter'	PK NS 107 b1
_	walāntsa*	'hindrance'	THT 229 b1-b2
_	sparttāṃtsa	'practitioner'	THT 558 a2
_	mallāntsa*	'(op)presser (?)'	THT 4062 a1
_	sarāntsa*	ʻplanter (?)'	Tumšuq 97 a2–a3
_	warwāntsa*	'receiver (?)'	THT 2687 8, THT2718 5,
			THT2722A 2, THT 2842 4,
			THT 2843 2
-	kewyomntsa*?	'cattle-keeper (?)'	THT 2694.2

Akayurş 'bull' could be a compound containing the underived word for 'cow': \*kew-wərşe lit. 'cow male' (Hackstein 2017: 1306), if not from an inherited PIE syntagm \*gwous ursēn

For the inflection of adjectives in  $-e_{uv}$  cf. Table 3 below. 15

### 3 Derivational explanations

It is generally accepted in Tocharian scholarship that the agent noun suffixes in -nta,  $-\tilde{n}ca$  and -ntsa are based in one way or another on the PIE \*nt-participle; cf. Malzahn (2010: 488–491), Hackstein (2012), Pinault (2012), Fellner (2014b), Adams (2015: 140). It is also commonly agreed that for -ntsa a PIE phonological sequence \* $-ntih_2$  is by far the best option as it would regularly give Pre-PT \*-ntya > PT \*-ntsa. In 2012, both O. Hackstein and G.-J. Pinault proposed derivational solutions to explain the morphological structure of this sequence.

Hackstein's (2012) solution is the more extensive of the two. He proposes that TB agentive suffixes go back to collectives in \*- $h_2$  originally from \*nt-participles, some by way of \*i-abstracts (Hackstein 2012: 167–168):

```
- -nta < *-nt-eh_2

- -nca < *-nt-ii-eh_2

- -ntsa < *-nt-i-h_2

- -tsa < *-t-ii-eh_2

- -ca < *-t-ii-eh_2
```

The fact that these formations do not inflect for gender is to Hackstein an indication that the collective suffix \*- $h_2$  had only begun its development into a feminine suffix at the time Tocharian split from the Indo-European family tree. This solution relies on the development of collective-abstracts to agentive nouns on a large scale, described by Hackstein (2012: 164) as a "diachronic tendency or "drift" in Tocharian." This is rightly criticised by Fellner (2014b: 60–62), who points out that individualizations of abstract nouns usually happen on a lexical, not on a morphological basis, and that the examples used by Hackstein as parallels all retain their original abstract meaning side by side with the new agentive use, e.g., Germ. *Bedienung* 'service, server', OFr. *justice* 'justice, judge'. Lastly, the fact that Tocharian shows inherited gendered inflection in the preterite participles, using the formant \*- $ih_2$  to mark the feminine, makes it quite likely that other participles showing this suffix were also inflected for gender; cf. TB m.nom.sg.  $y\bar{a}mu$ , f.nom.sg.  $y\bar{a}mu$ sa < PIE \*- $u\bar{o}$ s, \*-usih2 (Pinault 2008: 530; Peyrot 2010).

Pinault (2012) proposes two possible etymologies for *-ntsa*. In the first solution (Pinault 2012: 187–188), he suggests that the word PT \**aknatsa* 'fool(ish)'

<sup>16</sup> There is also a phonological problem with the variants in \*- $eh_2$  posited by Hackstein which should give  $^B$ -o, not  $^B$ -a (Pinault 2012: 188–189; Fellner 2014b: 60).

could have been reanalysed as a participant noun<sup>17</sup> pertaining to ability: 'one who is unable to understand'; cf. section 6. From there, \*-tsa was extracted and added to the stem of the \*nt-participle. These forms then developed the specific meaning of an occupational suffix: \*wapant-tsa 'one who is able to weave'  $\rightarrow$  'one who weaves professionally'. Since Pinault takes \*aknatsa as an original collective abstract 'ignorance' (PIE \*n- $\acute{g}neh_3$ -ti- $h_2$ ), there are at least three nontrivial semantic developments required by this hypothesis, not all of which are backed up by typological parallels. His second solution (Pinault 2012: 188–189) compares the ntsa-suffix to Hittite nouns in -anzan-, which seem to go back to \*-nt-i- $\acute{o}n$  (Melchert 2003). This solution is supported by Fellner (2014b: 62–63). The advantage of the \* $\acute{o}n$ -suffix is that it is individualising in function, so the leap to agent noun is a short one. However, analogy is needed to explain the nominative singular \*B-a\*, since PIE \* $-\acute{o}n$  most likely would yield \*B-o\*; cf. \*Bokso 'ox' < PIE \* $uks\~on$ . 18

### 4 The origin of *ntsa*-nouns

I would like to present an alternative explanation for -ntsa and the other agent noun suffixes. It begins in a different area of TB nominal morphology, namely the adjectives in  $^{\rm B}$ - $\bar{a}_u$  and  $^{\rm B}$ - $e_u$  originally from PIE \*uont-stems; cf. Table 3. This paradigm shows us what we could have expected if the PIE \*nt-participle had been continued without detours into Tocharian. What is remarkable is that the paradigm shows the same three phonological variants as the agent nouns; compare -nta with the m.obl.sg. -nt,  $-\tilde{n}ca$  with the m.nom.pl.  $-\tilde{n}c$ , and -ntsa with the f.nom.sg -ntsa, obl.sg. -ntsai.

A look at the occupational ntsa-nouns suggests that it might not be a coincidence that the variant -nts- is found in the feminine singular of  $^{\rm B}tall\bar{a}_u$  and  $^{\rm B}perne_u$ .  $^{\rm 19}$  Among the ntsa-forms are occupations that are partly or fully undertaken by women, such as  $wap\bar{a}ntsa$  'weaver' and  $nask\bar{a}ntsa$  'spinner'. The same

<sup>17</sup> Cf. Haspelmath (1994: 171): "Participant nouns like agent nouns (e.g. writ-er), patient nouns (e.g. employ-ee), place nouns (e.g. Greek théa-tron 'theater', lit. 'lookingplace'), etc., are among the best-known examples of derivational morphology, showing frequent formal and semantic idiosyncrasies."

<sup>18</sup> Cf. the discussion in Del Tomba (2020: 141–142). For a different viewpoint, see Jasanoff (2018).

<sup>19</sup> With the identification of \*\textstyre awaing', Ji, Winter, & Pinault (1998: 148) also noticed this formal identity, as they suggested that the abstract was derived from a feminine term for 'weaver', \*\textstyre apants. Since the masculine at this point was assumed to be \*\textstyre apants, the connection to the \*nt-participle was not made.

TABLE 3	<sup>B</sup> tallāu	'miserable',	$^{\mathrm{B}}\!perne_{u}$	'glorious'
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	m.		f.	
nom.sg.	tallā <sub>u</sub> tallānt	perne <sub>u</sub> pernent	tallauntsa tallauntsai	pernauntsa
gen.sg. nom.pl. obl.pl.	tallānte tallāñc tallāntäṃ	perneñc	tallānta	pernenta
gen.pl.	tallāntäṃts	pernentäṃ		

is probably true of *tällaikāntsa\**, especially if it is derived from <sup>B</sup>*laika*- 'wash'. In any case, the attestation of the form in THT 484 a2 indicates that women could be *tällaikāntsas*, whatever the exact meaning. A more tentative addition could be *taktsāntsa* 'grinder (?)', if this perhaps pertains to kitchen terminology. Such a suggestion is not out of the question, since the Old Uyghur verb *uv*- 'crush, crumble' mentioned above is found in relation to food: *ol etmek uvdu* '(s)he crumbled the bread'; cf. Clauson (1972: 4–5). With this in mind, as well as the phonological identity of the forms, the simplest solution in my opinion is to derive the *ntsa*-agent nouns from the feminine singular of the PIE \**nt*-participle.

Besides the occupational titles in *-ntsa*, there are two strong arguments in favour of this hypothesis: the first is the word for 'queen', the second the word for 'pregnant'. It is a longstanding hypothesis that the words for 'king', <sup>B</sup>walo, <sup>A</sup>wäl, and 'queen', <sup>B</sup>lāntsa, <sup>A</sup>lāṃts, are relics of an athematic \*nt-participle to a root aorist \* $\mu\acute{e}lH$ -/ $\mu\rlap/elH$ -'control'; cf. Van Windekens (1979: 554), Lubotsky (1994), Adams (2013: 631). These forms must have been lexicalised very early to have avoided any subsequent changes that happened in the participles. The word for 'queen' is therefore in my view direct evidence that Tocharian continued the feminine \*nt-participle in the familiar shape \*-nt- $ih_2$ .<sup>20</sup>

The second word <sup>B</sup>*preṃtsa* carries even more promise, although it is much more disputed. In early scholarship, it was taken as an adverb meaning 'instantly', derived from the noun <sup>B</sup>*prentse* 'instant, moment'; cf. Couvreur (1955: 224), Sieg (1955: 76). Arguing that the word is found exclusively in medical texts,<sup>21</sup> including one pertaining to 'Frauenkrankheit', Schmidt (1975: 294) pro-

<sup>20</sup> For the inflection of *Blāntsa*, *Alāmts*; cf. Del Tomba (2020: 69–70).

<sup>21</sup> IOL Toch 306 b5, W 33 a6, THT 505 a2, a5-b1, b4.

posed that premtsa is rather an adjective meaning 'pregnant'. From this analysis, he proposed a  $l\bar{a}ntsa$ -type etymology of the form, namely that premtsa is the feminine of the nt-participle to the PIE verb \* $b^her$ - 'carry' and is thus directly comparable to Skt.  $bh\acute{a}rant\bar{\iota}$  and Gk.  $\phi\acute{e}\rho ov\sigma\alpha$  < PIE \* $b^h\acute{e}rontih_2$ . According to Schmidt (l.c.), there is also one instance showing a secondary meaning 'sexually potent (of a man)':

 $|\cdot|^{22}$  tso $^{23}$  staukkanatär-me śle yasar kalträ klainats premtsa ynānm yamasträ

IOL Toch 306 b5

'(Nicht) wird der Penis ihnen schlaff, [sondern] steht mit Blut: Von den Frauen wird er [als] potent [zeugungsfähig] geschätzt.'

tr. SCHMIDT 1975: 294; his brackets

However, Carling (2003) has conclusively shown through comparison with Sanskrit parallels that the passage in question pertains to the symptoms of uterine cancer (Skt. *raktagulma*-).

'their [i.e. of the women] abdomen grows, likewise the [menstrual] blood stands still [i.e. is obstructed]. It [i.e. the *raktagulma* symptoms] is evaluated by the women as if [they are] pregnant.'

tr. CARLING 2003: 91; her brackets

Thus, *preṃtsa* means only 'pregnant' and does not refer to male potency. It is noted by Carling (2003: 88) that it is problematic that *preṃtsa* as an adjective does not show agreement with the other constituents in the sentence. On those grounds, she questions Schmidt's etymology and instead presents an etymology by G.-J. Pinault, namely that *preṃtsa* is a perlative of an other-

Schmidt (1975: 293) restores  $m\bar{a}$  'not' at the beginning of the passage.

Couvreur (1955: 223–224) restores ( $k\bar{a}$ )tso 'abdomen'. However, the word is repeated in the next sentence without room for an extra akṣara ( $k\bar{a}$ ):  $m\bar{a}ntak$  no tso erkatse 'further the tso is burning hot' (on erkatse, cf. Carling 2003: 89–90, 93). Following Winter (1962: 113 fn. 10), Schmidt (1975: 293) argues for an independent word meaning 'penis' and bases his translation on this. Carling (2003: 86–87) rightly rejects this meaning and instead proposes an independent noun  $^Btso$ , obl.sg. tsai meaning '(lower) abdomen'. It is, however, already suggested by Couvreur (1955: 223 fn. 10) that the second tso could be an orthographical mistake: "Ob für  $k\bar{a}tso$  mit ausgefallenem Akṣara  $k\bar{a}$ ." F. Dragoni (p.c.) suggests that the copyist could have accidentally left out  $k\bar{a}$  because of the graphic similarity of the akṣaras kno and tso.

wise unattested noun \*preṃ 'plainness'; cf. Bempreṃ 'true'. The use of preṃtsa to mean 'pregnant' would thus be metaphorical in origin. However, the problem of agreement can be circumvented with a slight alteration in the interpretation of the passage, if one accepts that it is the (medical) patient, not the symptom of the tumour, who is the subject of ynānm yamasträ 'is evaluated, is deemed':

///tso staukkanatär-me śle yasar kalträ klainats preṃtsa ynāñm yamasträ
IOL Toch 306 b5

'Their stomach grows, likewise the blood stands still. She is deemed by the women to be pregnant.'

Elsewhere in the text, the patient is referred to both in the singular and the plural, so the change in number in this line is understandable; compare line b5  $tso\ staukkanat\"{a}r$ -me 'the stomach grows for them (pl.)' with line b6  $\bar{a}\~{n}me\ sp\"{a}$   $m\"{a}sket\"{a}r$ -ne 'and desire arises for her (sg.)'. Schmidt's analysis of the form as an adjective from a lexicalised participle, here used substantivally, is therefore in my opinion the best interpretation from both a synchronic and a diachronic perspective.

If *preṃtsa* does continue \*b^hérontih<sub>2</sub>, the word constitutes a significant archaism within Tocharian. It is well known that the verbal stem \*b^her-e/o-is continued in Tocharian as the present stem Bpərə/e-, Apärə/e- 'carry, bring, take', one of the few thematic presents with direct cognates outside the branch; cf. Ringe (2000: 125).<sup>24</sup> Outside the present, the verb is suppletive. In TA, the stem  $k\bar{a}m\bar{a}$ - 'carry, take' expresses both the subjunctive and the preterite; in TB, kama- 'id.' forms only the preterite, while as- 'fetch' and ay- 'give' express the subjunctive. According to Schmidt (1974: 367), the meaning 'take' is predominantly found outside the present, and it therefore seems likely that it is a recent addition to the semantic sphere of PT \*pərə/e-. The semantic development preṃtsa from PIE is therefore easily understood: 'carrying' (f.)  $\rightarrow$  '(child-)bearing'  $\rightarrow$  'pregnant'; cf. Skt. bibharti 'to carry (a child)', Goth. berusjos 'parents', Germ. gebären 'give birth', Russ. berémennaja 'pregnant'.

This was noticed simultaneously by D. Ringe and J. Jasanoff; cf. Ringe (2000: 121 fn. 1).

	Pre-Proto-Tocharian		Tocharian B
nom.sg.	*-ntsa	>	-ntsa
obl.sg.	*-ntsa	$\rightarrow$	-ntsai
nom.pl.	*-ntań	$\rightarrow$	-ntsañ
obl.pl.	*-ntan	$\rightarrow$	-ntsaṃ

TABLE 4 Analogy in the plural of the *ntsa*-paradigm

## 5 Development from participle to agent noun

The development I am proposing took place in three steps. First, the feminine \*nt-participle was restricted in use to female-specific occupations, e.g., \*wapantsa 'weaving (f.nom.sg.)'  $\rightarrow$  'female weaver', while the masculine took over as the productive agentive formation for both grammatical genders. Such a development can explain why descendants of the PIE \*nt-participle surface in Tocharian as agent nouns without additional derivational suffixes. The disintegration of gendered inflection was the key development that took the formation from primarily adjectival to primarily substantival. At this stage, the stem allomorph in the singular \*-nts- replaced \*-nt- in the plural; cf. Table 4.<sup>25</sup>

Secondly, the *ntsa*-forms lost their specifically female reference and were reinterpreted as agent nouns forming occupational titles: \*wapantsa 'female weaver'  $\rightarrow$  'weaver'. The existence of ^wapaṇtsune 'weaving' indicates that this happened in Pre-PT. The third step is only evidenced by TB, namely that the *ntsa*-suffix became productive to form occupational titles.

The development from feminine to epicene agent noun may appear counterintuitive, but it does have several parallels, especially on the lexical level. For instance, Danish *sygeplejerske* 'nurse' is overtly marked with the feminine agent noun suffix *-ske* (cf. *syerske* 'seamstress', *morderske* 'murderess'), but is used generally regardless of gender. The same is true for Dutch *secretaresse* 'secretary, administrative assistent' and *kassière* '(shop) cashier', to which the masculine

<sup>25</sup> Since the expected feminine plural \*-nta is formally identical to the nta-agent noun in the nominative, it could be tempting to derive the latter from the former. Semantically, however, there is nothing that suggests an original feminine origin for the agent nouns in -nta, unlike those in -ntsa. In addition, one would have to explain why a plural developed into a singular. Deriving -nta from the masculine singular is thus in my opinion much easier.

counterparts show a different meaning: secretaris 'administrative member of a board or organization', kassier 'bank teller, treasurer'.

A more systematic parallel can be found in English, namely in the suffix OE -estre (> ModEng. -ster). While there has been quite a lot of scholarly debate over the origin and meaning of this suffix (cf. Peterson 2013 for references), the attestations indicate that the suffix was used almost exclusively to form feminine agent nouns in Old English: e.g., lærestre 'female teacher', hoppestre 'female dancer', webestre 'female weaver'. At this time, the only agent nouns in -estre with masculine reference were "renderings of Latin designations of men exercising functions which among the English were peculiar to women, as byrdistræ embroiderer (gl. blaciarius, primicularius), bæcestre baker (gl. pistor), sēamestre tailor (gl. sartor), wæscestre washer (gl. fullo)" (OED Online 2021: s.v. -ster).<sup>26</sup> Support for the original feminine status of the suffix can be found in Dutch, where it is continued as the marked feminine counterpart of the unmarked agent noun suffix -er:<sup>27</sup> werker 'worker' ~ werkster 'female worker', gebruiker 'user' ~ gebruikster 'female user'. In Middle English, from the 11th century CE onwards, forms like baxter 'baker' and webster 'weaver' began to be used as titles next to male personal names and as surnames; cf. Liueger se Bacestere (before 1093), John le Webestere (1275) (Hanks, Coates, & McClure 2016: 170, 2853). Only much later, from the 17th century CE, did female occupations begin to be remade with the borrowed feminine marker -ess, showing the loss of feminine connotation for -ster, e.g., seamstress, spinstress, songstress. Finally, the suffix -ster found moderate productivity as a denominal agent noun suffix ('someone to do with/working with X'): e.g., trickster, gangster, hipster.

On the lexical level, the similarity between English and Tocharian suffixes is quite striking. The agent noun wapāntsa 'weaver' has the direct Middle English parallel webster 'id.', while naskantsāna\* 'female spinners' with its overt feminine marking can be taken as equivalent of the antiquated English form spinstress. Lastly, forms like lāntsa 'queen' and premtsa 'pregnant', which kept their feminine gender reference through specialisation of meaning, can be com-

<sup>26</sup> Certain inanimate nouns with a similar suffix are also attested in Old English, e.g., ēowestre 'sheepfold', heolstor 'hiding place'. This is present in other Germanic languages as well, e.g., Got. awistr 'sheepfold', hulistr 'veil', qilstr 'tribute, tax', ON hulstr 'sheath, case', blómstr 'flower', OHG gelstar 'tribute, tax' (Peterson 2013: 3). Due to the difference in function, it is difficult to tell whether and how this suffix is related to agentival -ster.

It is commonly assumed that -er, found in most North and West Germanic languages today, 27 was borrowed from Latin -ārius; cf. Davis (1992: 103-104), Ringe & Taylor (2014: 138). For a different explanation, see Gasiorowski (2017) who takes both -er and -ster as derivatives of a feminine suffix \*-s(o)r-.

pared to Modern English *spinster*, originally referring to a female spinner, now 'single woman past the typical age of marriage'.

An important caveat to this hypothesis was noted by G.-J. Pinault (p.c.), namely that weaving is not universally a female profession and that there are in fact examples of Central Asian cultures in which it is considered primarily a male occupation. Since the development proposed here has to be placed in the Pre-PT period, the sociolinguistic circumstances surrounding it are by default speculative. However, one important observation is that textile and food production belong both to the general sphere of housekeeping, as well as to commercial enterprise, which cross-culturally tends to be divided along gender lines. When predominantly female household occupations, such as cooking and weaving, become commercialised, men tend to take over the means of production (Minturn 1996; O'Brian 1999). The fact that these occupations are not strictly female, but rather show a tendency to shift from female to male, motivates the development from marked feminine agent noun to unmarked agent noun in these types of professions.

One of the formal aspects of the ntsa-forms which has yet to be discussed is the fact that they are seemingly derived exclusively to subjunctives of class [5] with stem vowel -a-. In this way, they differ from the  $\tilde{n}ca$ -forms, which are exclusively derived from the present stem, and the nta-forms, which are derived from both the subjunctive and the present. There is good reason to assume that these two suffixes have the same origin, and that -nta represents a more archaic stage of  $-\tilde{n}ca$  originating from the masculine \*nt-participle. This is best exemplified by the pair weñenta 'speaker, orator' ~ weṣṣeñca 'speaker, speaking'. Synchronically in TB, weñenta looks like it is derived from the subjunctive [2] stem Bweñə/e-, while weṣṣeñca is derived from the present [9] stem <sup>B</sup>weṣṣə/ske-. This present is not of PT date in light of the TA suppletive present stem tränk-; it was most likely created in Pre-TB, relegating the original present weña/e- to the subjunctive (Winter 1977: 134-135; Malzahn 2010: 343-344). The agent noun weñenta must have been lexicalised before the new present was created, thereby explaining the apparent affinity with the subjunctive. I think that a similar explanation can be applied to the case of -ntsa. The form mall[a]ntsasmem is not built to any known stem of the verb <sup>B</sup>məla-'oppress', which is only attested with a present of class [10]: Bmallass/sk-. The geminate of mallantsa\* suggests that the form continues the archaic unextended nasal present stem PT \*məl-n-a- with assimilation of the nasal of the

<sup>28</sup> For instance, in the pre-industrialized Uzbekistan of 1926, 98.2% of weavers were male (Sacks 1992: 188).

suffix, possibly even going back to PIE \*ml-n-h2-; cf. Hackstein (1995: 316).<sup>29</sup> Similarly, Bnaska- 'spin' must reflect an old derived present in \*-sk- if to PIE \*(s) $neh_{l}$ - 'spin'; cf. LIV<sub>2</sub> (571–572). The possibility of original agrist participles is also present in light of *lāntsa* 'queen' < \**ulḤ-nt-ih*<sub>2</sub>; cf. section 4. From a few forms in stem-final -a- (e.g., \*malla-ntsa, \*wapa-ntsa, \*naska-ntsa), the suffix could have become productive in subjunctive [5].30

As for the inflection nom.sg. -a, obl.sg. -ai, nom.pl. -añ, which cannot be original in either -nta or -ñca, Hilmarsson (1987: 42) suggests that it spread from root nouns with final laryngeal, found as final member in verbal governing compounds of the type Bkärtse-rita 'seeker of the good'. It has been argued that the rita-type compounds were not influential enough on their own to be the nucleus of the agentive a-inflection; cf. Malzahn (2010: 488): "there is no productive agentive suffix \*- $\bar{a}$  in Tocharian." If, however, the feminine \*ntparticiple with endings \*-a, \*-ai had developed into an agent noun while the masculine was still a real participle, the basis for an agentive a-inflection would be more considerable. Eventually, the masculine was also transferred to this declension. The lexicalised *nta*-forms would have been incorporated into this declension before  $-\tilde{n}c$ - spread throughout the paradigm in the productive participle, so that they preserved the unpalatalized variant; cf. Ringe (1991: 96 fn. 85), Malzahn (2010: 491).

#### 6 Baknātsa, Aāknats 'fool(ish)'

Finally, the word <sup>B</sup>aknātsa, <sup>A</sup>āknats 'fool(ish)' deserves attention. Phonologically, the word resembles the ntsa-nouns, while syntactically and morphologically it behaves like B-ñca and A-nt, i.e., it functions as both adjective and substantive, it has both female and male reference, and it inflects according to the same declension. It is therefore no coincidence that diachronic accounts of the agent nouns take this word into consideration in one way or another.

But differently LIV<sub>2</sub> (432-433). 29

In light of Apekant 'painter', derived from the subjunctive stem PT \*paika-, \*Bpaikantsa 30 'painter' must be an innovation replacing an earlier nta-agent noun. This could have easily happened when -ntsa became productive as an epicene occupational suffix.

TA substantival use, feminine reference<sup>31</sup>

```
/// mätne āknats mätne trikṣant mät(n)e p///
A 80 a4
```

'As if a fool, as if mistaken, as if ...'

TB adjectival use, masculine reference

walo aknātsa su märsau ṣañ āñm atsaik ñem araṇe-<sup>a3</sup>mi <sup>THT 81</sup> a2-3

'The foolish king, by the name Aranemi, having forgotten even himself'

Since the ntsa-suffix was transcribed as -ttsa until 2001,  $^Bakn\bar{a}tsa$ ,  $^A\bar{a}knats$  was interpreted as a member of that class in all the traditional handbooks; cf. section 2. With this connection broken, both Hackstein (2012: 156–157) and Pinault (2012: 187) take  $^*aknatsa$  as a privative abstract going back to PIE  $^*n\acute{g}neh_3tih_2$ ; cf. section 3. They cite Gk.  $\check{\alpha}\gamma\nu\omega\varsigma$  'ignorant' as well as Gk.  $\check{\alpha}\gamma\nu\omega\tau\varsigma$ , Skt.  $\acute{a}j\~n\~ata$ -, Lat.  $ign\~otus$  'unknown' as related deverbal nouns to an original PIE base  $^*n$ - $\acute{g}neh_3$ -t-. As pointed out by Pinault (2012: 187), the formation looks very archaic within Tocharian: in PT, the building blocks (namely privative  $^*a$ - and the verbal root  $^*$ - $^*kna$ -) were probably not available for productive use, so  $^*aknatsa$  therefore looks older than PT. Semantically, the transition from abstract  $^*aknatsa$  'ignorance' to participant noun 'ignorant (one)' on a lexical basis is acceptable.

However, explaining  ${}^Bakn\bar{a}tsa$ ,  ${}^A\bar{a}knats$  as an archaic feminine  ${}^*nt$ -participle is also a possibility. Like  ${}^Bl\bar{a}ntsa$ ,  ${}^Al\bar{a}mts$ , the form would then be a relic of a PIE root aorist. On both the formal and functional sides, this suggestion does face some hurdles. First of all, one has to explain the lack of a nasal in the suffix. One possibility is that the form arose through dissimilation of nasals. Reconstructing the PIE active feminine participle of the root aorist of  ${}^*gneh_3$ -with a privative prefix forwards into PT would look like this:  ${}^*n_1-gnh_3-nt_1-ih_2>{}^*enknantsa$ . Under these circumstances, with three nasals in successive syllables, it is conceivable that the third nasal was dropped by dissimilation. Secondly, one must account for the fact that  ${}^Bakn\bar{a}tsa$ ,  ${}^A\bar{a}knats$ , unlike  ${}^Bpremtsa$ 

<sup>31</sup> Line spoken by Bhadrā, referring to herself; cf. Sieg (1952: 16–17).

<sup>32</sup> This possibility was suggested to me by Michaël Peyrot (p.c.).

and Blantsa, Alamts, does not have any particular semantic affinity with the feminine. Perhaps the dissimilation itself motivated the semantic change. If \*aknantsa became \*aknatsa, the link to the participial paradigm would have been weakened considerably. Later in Tocharian, any reintegration effort would be impossible due to the elimination of athematic /NTa/-forms on one hand<sup>33</sup> and the further development of \*-ntsa on the other.

#### Conclusion 7

In conclusion, there is a case to be made that the TB agent noun in -ntsa continues the PIE feminine active participle in \*-nt-ih<sub>2</sub>. This is substantiated partly by occupational *ntsa*-nouns pertaining to female professions and partly by the relic forms *premtsa* 'pregnant' and *lāntsa* 'queen'. Under this hypothesis, it can be explained why the TB agentive formations with suffixes in /-NTa/ do not show gendered inflection, even though they continue the PIE \*nt-participle. In fact, the assumption that gendered inflection was lost helps explain why they began to develop into agent nouns. A further conclusion is that all three TB agent nouns in /-NTa/ can be explained from a single paradigm which underwent two splits: one in Pre-PT leading to the lexicalisation of -ntsa, and one in Pre-TB leading to the lexicalisation of -nta and the phonological renewal of  $-\tilde{n}ca$ . This scenario is compatible with the simpler system in TA, which has a two-way contrast between -nts (cf. wāpaṃts\* 'weaver') and productive -nt. From a phylogenetic point of view, this also means that the Tocharian branch aligns with Core Indo-European in having inherited a participle in \*-nt- with active voice and gendered inflection.

<sup>33</sup> The TB  $\tilde{n}ca$ -forms seem only to be created productively to thematic present stem classes [2], [8], [9], and [10]. Very few athematic forms exist: mäskeñca 'being' to prs.[3] Bməske-'be(come)', śawāñca 'eater, eating' to prs.[5] Bśawá- 'eat'. The form yneñca 'goer, going' seems to be formed from the thematic variant yane- (cf. prs.ipl. ynem, 3pl. yanem) of the otherwise athematic prs.[1]  $^{B}y(n)$ - 'go' (Malzahn 2010: 355–356). There are no  $\tilde{n}ca$ - or ntaforms attested to present class [6], a curious fact since the verbs of this class are numerous and predominantly transitive. The role of productive agent noun is instead filled by the suffix -uca added to the subjunctive stem. It is highly likely that these two facts are related; cf. the proposal by Itkin & Kuritsyna (2020: 97).

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