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Pronominal Morphology in the Anatolian Language Family

Abstract

In the following article, the pronominal morphology from four major ancient Anatolian languages (Hittite, Cuneiform Luwian, Hieroglyphic Luwian and Lycian) will be treated. It will be argued that apart from a few elements of unclear origin, the pronouns in these languages are for the most part built up of morphemes that can be traced back to Proto-Indo-European.

Keywords: Pronouns, Anatolian language family, Hittite, Luwian, Lycian

Many details regarding the morphology of the pronouns of the ancient Anatolian languages are still unclear. In this article, it is my aim to discuss the forms of the pronouns in the best known Anatolian languages, namely Hittite, Cuneiform Luwian, Hieroglyphic Luwian and Lycian, in order to reconstruct a Proto-Anatolian paradigm. Only when necessary is information from other Indo-European languages taken into account. Below, I have given the paradigms of Hitt. $k\bar{a}$ -, 'this', $ap\bar{a}$ -, 'that', $as\bar{a}$, 'that (over there)', salaga-, 'who/which', CLuw. salaga-, 'this', salaga-, 'that', salaga-, 'this', salaga-, 'this',

		Hitt.	CLuw.	HLuw. ¹	Lyc.
*k'V-	sg. nom. c. acc. c. nomacc. n. gen. datloc.	kāš kūn kī kēl kĕdani,kēti	$z\bar{a}\check{s}$ $zam(=pa)$ $z\bar{a}$ $-$ (see disc.)	za(-a)-sa za(-a)-na za(-a) za-si za(-a)-ti(-i)	
	abl. instr.	kēt, kēz kĕdanda	$z\bar{a}t\bar{\imath}$ (see disc.)	zi(-i)-na	

¹ Since the phonetic / phonological interpretation of the HLuw. script is not always fully clear, I have cited the HLuw. forms in transliteration and not in transcription.

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			Hitt.	CLuw.	HLuw.	Lyc.
	pl.	nom. c.	kē	zīnzi	za(-a)-zi	
	•	acc. c.	kūš	zīnza	za(-a)-zi	
		nomacc. n.	kē	$z_i\bar{a}$	za(-a)-ia	
		gen.	kinzan, kēnzan		- (/	
		datloc.	kēdaš		zi/a-tá-zi/a,	
					za(-a)-ti-ia-za	
$*h_I ob^h V$ -	sg.	nom. c.	apāš	apāš	á-pa-sa	ebe
		acc. c.	apūn	apān	á-pa-na	$eb ilde{e}^2$
		nomacc. n.	apāt	anator	á-pa	$eb ilde{e}$
		gen.	apĕ̃l		Anthon	
		datloc.	apēdani	apatti	á-pa-ti(-i)	
		abl.	apĕt, apĕz	_	*a- $pi(-i)$ - na	_
		instr.	apĕdanda			
	nl	nom. c.	$apar{e}$		á-pa-zi	
	рт.	acc. c.	apūš	apinza	á-pa-zi-i	ebeis
			apē	ирінци	á-pa-i-ia	ebeija
		nomacc. n.	apĕnzan		а-ра-і-іа	ebēija ebēhē
		gen. datloc.	apēdaš		á-pa-ta/tá-za	ebette ebette
		uat10c.	ирешиѕ		u-pu-1u/1u-z,u	ерене
$*k^wV$ -	sg.	nom. c.	kuiš	kuiš	kwa/i-i-sa ³	ti
		acc. c.	kuin	kuin	kwa/i-i-na	ti
		nomacc. n.	kuit	kui	kwa/i-a-za	ti
		gen.	kuĕl		_	
		datloc.	kuedani	kuuatti	kwa/i-a-ti	tdi
		1.1	, = , ,			
		abl.	kuĕz, kuedaz			AMPRICA
		instr.				
	pl.	nom. c.	kuieš	kuinzi	kwa/i-i-zi	ti, tijẽi
	1.	acc. c.	kuiuš	-	kwa/i-i-zi	_
		nomacc. n.	kue		kwa/i-ia	tija
		gen.	_			
		datloc.	kuedaš	_	kwa/i-tá-zi/a	

² I have argued elsewhere (Kloekhorst 2008a: 132 f.) that Lyc. *ebēñnē* / *ebēñni*, which is commonly seen as another acc. sg. c. form of *ebe*-, in fact belongs to a stem *ebēñn(i)*-, 'belonging to this, here located'.

³ I have chosen to transliterate the hieroglyphic sign L. 329, which is usually cited in its logographic value REL (= 'relative pronoun'), with its phonetic value, *kwa/i*.

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		Hitt.	CLuw.	HLuw.	Lyc.
*h ₁ V-	sg. nom. c. acc. c. nomacc. n gen. datloc.	aši uni . ini ēl edi,edani			
	abl. instr.	edez,edaz –			
	pl. nom. c. acc. c. nomacc. n gen. datloc.	e uniuš 1. – – edaš			

nom.-acc. sg. n.: Hitt. $ap\bar{a}t$ can be directly compared to HLuw. \acute{a} -pa, both of which seem to reflect PAnat. * $?ob\acute{o}d$. In Lyc., such a pre-form should have yielded **ebe, to which an element - $\~e$ (probably taken from neuter thematic stems in - $\~e$ <*-om) was attached, yielding $eb\~e$. CLuw. $z\~a$ and HLuw. za-a seem to go back to a similar formation, *k'od. The Hitt. form $k\~a$ is remarkable, but not unparallelled. Within the paradigm of $a\~si$, we find a nom.-acc. sg. n. form ini, which must go back to *?i + *-m + -i. A form comparable to ini is sporadically also found within the paradigm of $k\=a$ -, namely $k\=a$ ni (KBo 34.142 i 7 + KBo 8.55, 16 (MS?)). Just as ini served as a basis to the adverb $ini\~s\~san$, 'thus, as stated', $k\=a$ ni has given rise to an adverb $k\=a$ ni $s\~san$, 'thus, as follows' (KUB 28.4 obv. 16b (NS)). The much better attested adverb $k\=a$ s $s\~san$, likewise 'thus, as follows', is built on $k\=a$, however. In this sense it is relevant that also an adverb $apini\~s\~san$, 'thus', is well attested (from OS texts onwards), which proves that a nom.-acc. sg. n. form *apini must have been present at an earlier, pre-Hitt. stage. The

most straight-forward reconstruction of $k\bar{\imath}$ is PAnat. *k'i, and *apini must then ultimately go back to a pre-form *?obi. The Hitt. relative-interrogative pronoun kuit seems to reflect * k^wid , whereas CLuw. kui and Lyc. ti could reflect both * k^wid and * k^wi . In Hitt., a form $kuu\bar{a}t$ is attested in the meaning 'why', which must reflect * k^wod , a form supported by HLuw. $kwa/i-a-za^4$ / $k^watsa/<*k^wod=so$ (the *=so being a specific Luwian enlargement to nom.-acc. sg. n. forms). Perhaps Hitt. kuit has taken over the *-d from * k^wod .

gen. sg.: In Hitt., the genitives $k\bar{e}l$, $ap\bar{e}l$, $\bar{e}l$ and $ku\bar{e}l$ contain an enigmatic ending -l, which is not known from other IE languages. In $k\bar{e}l$ the vowel is consistently spelled long, ke-e-el, but this is due to the fact that this is a monosyllabic word (cf. Kloekhorst 2012: 251–252). It can therefore go back to either short *e or long $*\bar{e}$. Since the stem vowel in the dat.-loc. sg. forms must go back to a short *e (as will be shown below), I assume that this was the case in the gen. sg. forms as well. I therefore reconstruct PAnat. *k'el, *?obel, *?el and *k''el. The HLuw. gen. sg. form za-si is probably a new formation, in which the nominal genitive ending -asi is attached to the pronominal stem za-.

The situation in HLuw has been treated extensively by Goedegebuure (2010). She shows that the dat.-loc. sg. forms of za-, apa- and kwi- are spelled zati, apati and kwati throughout the HLuw corpus. In the older texts, the forms zati and apati are graphically identical to the adverbs zati, 'here', and apati, 'there'. In younger texts, these latter adverbs undergo rhotacism to zari and apari, whereas the dat.-loc. sg. forms continue being spelled with -t-: zati, apati. In the literature, it is usually stated that all these forms are identical (e.g. Plöchl 2003: 69), and that because of the rhotacism in zari and apari, we must assume that the original forms are /tsadi/ and /?badi/, with lenis /-d-/ (since only intervocalic lenis /-d-/ undergoes rhotacism) (Melchert 2003: 190; Kloekhorst 2008b: 191, 426). Goedegebuure argues, however, that since only the adverbs develop rhotacized forms in younger texts,

⁴ E.g. BABYLON 1 § 4 á-ma-za-pa-wa/i-' kwa/i-a-za | ta-ní-ma-za, 'All that (is) mine' (cf. Hawkins 2000: 392).

⁵ But cf. Oettinger (1999) and Rieken (2008) for a connection between Hitt. -*l* and some forms in non-Anatolian Indo-European languages.

⁶ Note that in the gen. sg. form *ammel*, 'of mine', we find non-plene spelling of the *e*, *am-me-el*, which points to the presence of a short /e/ < PIE *é as well.

⁷ In the only other preserved context, which indeed seems to speak in favor of a dat.-loc. sg. interpretation, the form itself is broken: *za-a*[-x-x] *pár-ni*, 'to this house' (KUB 35.54 iii 23). This context therefore cannot be used as an argument for *za-a-ti-i* in other contexts being a dat.-loc. sg. form.

⁸ I.e. *a-pát-ti a-a-ri-i*, 'in that time' (KBo 9.141 i 15).

while the dat.-loc. sg. forms do not, we must assume that we are actually dealing with two different forms. She suggests that the adverbs are indeed /tsadi/ and /?badi/, which in younger times develop to /tsati/ and /?bati/, but that the dat.-loc. sg. forms actually contain a fortis /-t-/, /tsati/ and /?bati/, which is the reason why these do not show rhotacized forms in younger texts. By extension, also the relative-interrogative dat.-loc. sg. form *kwati* would then be /kwati/. These forms with /-t-/ are then compatible with CLuw. *apatti* and *kuuatti*.

Although Hitt. $k\bar{e}ti$ is attested less often than $k\bar{e}dani$, it is clear that $k\bar{e}ti$ must be compared with Luw. /t*ati/. Since the difference between lenis -t- in Hitt. and fortis /-t-/ in Luw. can only be explained by Čop's Law, we must reconstruct PAnat. *k'e'di, with short accented */e'/. This form must go back to quasi-PIE * $k'e'd^hi$ with an aspirate * d^h , since a voiced *d would have lengthened a preceding *e to *e, 10 which means that a PIE pre-form *k'e'di would have yielded PAnat. *k'e'di > Hitt. *k'e'di and Luw. *k'e'di and Luw. *k'e'di and Luw. *k'e'di and Luw. *k'e'di and this nasal element goes back to *k'e'di and lement -k'e'di and *k'e'di and *k'e'di is clear that Luw. /2abati/ and /k''ati must reflect quasi-PIE * $k'e'd^hnh_Ii$. Although in the paradigms of k''e'di must reflect quasi-PIE * $k'e'd^hnh_Ii$. Hitt. * $k''e'd^hnh_Ii$ and * $k'''e'd^hnh_Ii$. The origin of the Lyc. dat.-loc. sg. form *k''i is not fully clear to me. 11

abl.-instr.: In Hitt. the ablative case was in pronominal paradigms originally marked with an ending -t ($k\bar{e}t$, $ap\bar{e}t$; * $ku\bar{e}t$ is unattested), which in nominal paradigms is used for the instrumental. This seems to indicate that the ablative and the instrumental originally formed one case in Hitt. pronominal inflexion. From MH times onwards, $k\bar{e}t$, $ap\bar{e}t$ and * $ku\bar{e}t$ were being replaced by $k\bar{e}z$, $ap\bar{e}z$ and $ku\bar{e}z$, in which the nominal ablative ending -z was introduced. At the same time, a specific instrumental form was created, $k\bar{e}d$ and $ap\bar{e}d$ and (*kued and a sunattested). These must be analysed as having the ending -t attached to the stem $k\bar{e}d$ and $ap\bar{e}d$ and (as also found in dat.-loc. sg. $k\bar{e}d$ and $ap\bar{e}d$ ani), reflecting virtual * $k\dot{e}$ - d^h - nh_1 -t and * h_1 ob $h\dot{e}$ - d^h - nh_1 -t. Later on, we also find renewed abl. forms like $k\bar{e}d$ and kued and ku

For CLuw., Melchert (1993) cites no abl.-instr. form for $z\bar{a}$ - or $ap\bar{a}$ -. There does, however, seem to be one in the following context:

KUB 32.8 + KUB 32.5 iv

- (21) $[ku-i]\check{s}=du-u=r\ a<-ad>-du-ua-a[l^?]p\acute{i}-ia<-at^?-ti^?>^{12}a=du-u=t-ta$
- (22) [ta-]ni-mi-in-zi dingir^{MEŠ}-z[i x-x-x-]x $\check{s}ar-ra$ za-a-ti-i
- (23) [(pu-)]u-ua-an-du a=(a)ta=tar $za-[a-ti-]_{t}i^{2}_{-t}tar$ -ma-in-du uRudu- $\underline{i}a-ti$
- (24) [tar-]ma-ti ...

[Whoe]ver give<s> evil to him, may [a]ll the gods herewith [c]rush his [...], and may they he[rewith] nail it, (namely) with the bronze [na]il.

It seems that za-a-ti-i proleptically refers to abl.-instr. urudu-iati [tar]mati, 'bronze [na]il', and must therefore be an abl.-instr. form itself as well. In HLuw. the word that formally corresponds to the CLuw. abl.-instr. $z\bar{a}t\bar{t}$ /t°adi/, namely za(-a)ti(-i), za-ri+i, za+ra/i-i/t°adi/, is in fact an adverb denoting 'here'. The same goes for a-pa-ti, pa-ti(-i), a-pa-ri+i/(?)badi/, 'there', which must go back to an original abl.-instr. form as well. The combined evidence points to PLuw. abl.-instr. */t°adi/ and */t°abadi/. These forms are probably to be seen as a Luw. innovation, having attached the nominal abl.-instr. ending -t0. *-t0. *cti to the demonstrative stems /t°a-/ and /t0. The synchronic HLuw. abl.-instr. forms t1. *-t1. And t2. The synchronic HLuw abl.-instr. forms t3. *-t4. And t4. *-t5. The synchronic HLuw abl.-instr. forms t5. *-t6. *-t7. *-t8. *-

nom. pl. c.: The Luw. forms, CLuw. $z\bar{i}nzi$ and kuinzi, HLuw. za-a-zi, a-pa-zi and kwa/i-i-zi, are clearly secondary, having acquired the specific Luw. nom. pl. c. ending -nzi, whereby CLuw. shows i-mutation in $z\bar{a}$ -, whereas HLuw. does not. The Lyc. nom. pl. c. form ti could in principle go back to $*t\bar{i}i < *tinsi < *k^wi-msi$, being identical to CLuw. kuinzi and HLuw. kwa/i-i-zi. The form $tij\bar{e}i$ must be secondary, containing the nominal ending $-\bar{e}i < *-omsi$ attached to the stem ti-. In Hitt., $k\bar{e}$, $ap\bar{e}$ and e are generally reconstructed as *k'oi, $*h_Iob^hoi$ and $*h_Ioi$, with the ending *-oi comparable to Gr. oi, Skt. $t\acute{e}$, OCS ti, etc. Hitt. $kuie\check{s}$ seems to simply consist of the stem kui- to which the nominal nom. pl. c. ending $-e\check{s}$ has been attached.

acc. pl. c.: The Luwic languages show a diffuse picture. In HLuw. za-a-zi and a-pa-zi-i we find the ending -nzi, taken over from the nom. pl. c., but no i-mutation. In CLuw. $z\bar{\imath}nza$ and apinza we find the ending -nz, which must be the original acc. pl. c. ending, reflecting *-ms, attached to a stem with i-mutation. In Lyc. ebeis the ending -s < *-ms is attached to a stem ebei-, of which the -i- seems to be a remnant of the i-mutation, whereas the stem ebe- seems to be unmutated. Does this mean that in an original *ebis the stem ebe- was reintroduced? The Hitt. forms $k\bar{u}s$ and $ap\bar{u}s$ are more straightforward. As argued elsewhere (Kloekhorst

⁹ Thus also Goedegebuure (2010).

A development comparable to Winter's Law in Balto-Slavic, cf. Kloekhorst (2012: 258–259).

Perhaps this form is the outcome of unaccented *k*ed*i. Elsewhere (Kloekhorst 2011:162–163) I have argued that in Hitt. the relative pronoun kui- was inherently unaccented, which is a feature inherited from PIE. When having the function of an interrogative, the stem probably was accented, however. So, if in Proto-Anatolian both the unaccented relative *k*ed*i and the accented interrogative *k*éd*hi existed, then the former could have yielded Lyc. tdi (absence of Čop's Law and syncope of unaccented *e) and the latter Luw./k*áti/.

¹² For the addition of <-at-ti>, cf. Goedegebuure (2010).

Melchert (1993: 274) books this form as a dat.-loc. sg. form, however. Goedegebuure (2010) translates $z\bar{a}t\bar{t}$ as an adverb, 'let [a]ll gods pound [something] upon him in this (following) way', equating it with HLuw. zati, zati/tsadi/. Since she traces these adverbs back to original ablative-instrumental forms, her formal interpretation of $z\bar{a}t\bar{t}$ corresponds to mine.

¹⁴ Cf. Goedegebuure (2007) for discovery, interpretation and historical analysis of these forms.

nom.-acc. pl. n.: Interpretation of the Luwic forms, CLuw. zā, HLuw. za-a-ia, á-pa-i-ia and kwa/i-ia and Lyc. ebeija and tija, is difficult. All forms contain the ending -a, which is the synchronic nominal nom.-acc. pl. n. ending, going back to *-eh2. The form of the stems is more difficult to explain, however. In CLuw. the stem clearly is just za-, which presents no problems. The relative-interrogative forms are unproblematic as well: kwa/i-ia and tija show the synchronic stems kwi- and ti-. Analysis of the HLuw. stems zai- and apai-, however, which seem to correspond to the Lyc. stem ebei-, is more difficult. The Lyc. stem ebei- is reminiscent of the acc. pl. c. form ebei-s, which must be analysed as the stem ebe-+ i-mutation. However, since i-mutation is unexpected in a neuter form, we might rather have to separate the acc. pl. c. stem from the nom.-acc. pl. n. stem. Perhaps the stems zaiand apai-/ebei- reflect *koi- and *20boi-, the original nom. pl. c. forms (although unattested themselves), to which the neuter nom.-acc. pl. ending *-a was secondarily added, yielding HLuw. $z\bar{a}ia$ and apaia and Lyc. ebeija. The Hitt. forms $k\bar{e}$, $ap\bar{e}$ and kue have always been unclear. Elsewhere (Kloekhorst 2008b: 91, 162, 426 f.) I have argued that they might reflect PIE * $k'ih_2$, * $h_1ob^hih_2$ and * k^wih_2 , respectively, showing the development *- ih_2 > Hitt. -e. I believe that a similar development can be seen in Hitt. nom.-acc. n. 2-e, 'two', and 3-e, 'three', as well, which I now reconstruct as * $duih_2$ and * $trih_2$ (cf. Gr. nom.-acc. n. $\tau\varrho i\alpha$, Skt. nom.-acc. n. trī), respectively (cf. Kloekhorst 2010: 17).

gen. pl.: In Hitt. the gen. pl. form of $k\bar{a}$ - is attested only a few times: ki-in- $z[a^?]$ - $a[n^?]$ (KBo 6.2 iii 46 (OS)), ki-in-za-an (KUB 31.64 ii 42 (OH/NS)), ke-e-en-za-an (KUB 35.148 iv 15 (OH/NS)). In younger times it is replaced by $k\bar{e}l$, the original gen. sg. form. The gen. pl. of $ap\bar{a}$ - is attested a bit more often, as apenzan. In Lycian, we find $eb\bar{e}h\bar{e}$. Already Sturtevant (1933: 205) compares the element -zan with *-som as found in Skt. $te\bar{s}am$, 'of them' (with secondary lengthening on the basis of the nominal gen. pl. ending - $\bar{a}m$), Lat. $e\bar{o}rum$, 'of these', and OCS $te\bar{s}x$, 'of those'. The origin of the cluster -nz- in -Vnzan has always been difficult to explain, however. Since a cluster *-ns- yielded Hitt. geminate - $s\bar{s}$ - in intervocalic position (e.g. PIE *dens-u- > Hitt. $da\bar{s}\bar{s}u$ -, 'strong, heavy'), it was long thought that VnzV must be of secondary origin. For instance, Oettinger (1994: 322) assumed that original *-Vsan underwent 'Fernassimilation' and was secondarily changed to *-Vnsan, which regularly yielded -Vnzan. However, since a nasal is also present in Lyc. $eb\bar{e}h\bar{e}$, it must be PAnat. already. But also in Lyc., the ending - $eh\bar{e}$ cannot reflect *-Vnsom, since a sequence *VnsV should have yielded Lyc. VV (e.g. nom. pl. c. ending -omsi > $-e\bar{e}i$).

I would thus like to propose the following solution. It is incorrect that the Hitt. cluster VnzV must always be of secondary origin. In the noun genzu-, 'abdomen, lap', < *génh₁su-, it is the regular outcome of a cluster *-nHs-. And although I know of no parallels, it seems probable that a sequence *VnHsV would yield $\tilde{V}hV$ in Lyc. I therefore think that Hitt. -Vnzan and Lyc. -ēhē must go back to PAnat. *V-nH-som. It seems attractive to compare this element *-nH- with the nasal element found in dat.-loc, sg. $k \bar{e}$ -d-an-i and instr. $k \bar{e}$ -d-an-ta. If these are the same element, we must reconstruct *- nh_{I} - (since *C- $nh_{2/3}$ -V- would have vielded Hitt. **CanhV). The vowel -i- in the OS form kinzan is usually ignored. 16 but must be explained (the long $-\bar{e}$ - in the NH form $k\bar{e}nzan$ is analogical after nom. pl. c. $k\bar{e}$). It contrasts with the -e- found in apenzan (and also šumenzan, 'of you (pl.)'). Sturtevant (1933: 205), e.g., reconstructs *-e-, but this cannot explain kinzan, Kronasser (1956: 150) and Oettinger (1994: 322) reconstruct *-ē-, but this cannot explain kinzan either. Melchert (1994: 121) reconstructs *-oi-, but this should have yielded **-ai- before *-n-. The only possible reconstruction is *-ei-. The diphthong *-ei- in principle monophthongizes to Hitt. -e-, but after velar stops it yielded -i- (e.g. *k'ei-to > kitta, 'he/she/it lies'). This means that both $kinzan < *k\acute{e}i-nh_1$ -som and $apenzan < *h_1ob^{h\acute{e}i}-nh_1$ -som are phonologically regular.

Lyc. $eb\tilde{e}h\tilde{e}$ cannot easily go back to *-ei- nh_1 -som, since i-diphthongs normally yield Lyc. -i-. So, $eb\tilde{e}h\tilde{e}$ rather seems to point to * $h_1ob^h\hat{e}$ - nh_1 -som. Since a stem *Cei- is also attested in Skt. $t\dot{e}s\bar{q}m$ and OCS $t\check{e}xb$ < * $t\dot{e}i$ -som, I assume that Hitt. represents the original situation, * $C\dot{e}i$ - nh_1 -som, and that * $C\dot{e}$ - nh_1 -som as attested in Lyc. is secondary, probably due to generalization of the singular oblique stem.

dat.-loc. pl.: In Hitt. we find $k\bar{e}da\dot{s}$, ¹⁷ $ap\bar{e}da\dot{s}$ and $kueda\dot{s}$. Their ending $-a\dot{s}$ can be compared with the ending -e of Lyc. ebette, both of which must reflect PAnat. *-os, the same ending as found in the nominal paradigm. In Hitt., the elements $k\bar{e}d$ -, $ap\bar{e}d$ - and kued- are directly comparable to the dat.-loc. sg. forms $k\bar{e}ti$, $k\bar{e}dani$, $ap\bar{e}dani$ and kuedani, and must reflect * $C\dot{e}$ - d^h -.

The Lyc. form *ebette* is remarkable because of its intervocalic geminate *-tt-*: geminate consonants in Lyc. are always the result of contact with a preceding consonant (Kloekhorst 2008a: 126–128). We may therefore have to assume that the geminate *-tt-* was taken over from the genitival adjective *ebttehe/i-*, 'their', ¹⁸ and that the form was originally **ebete*. ¹⁹ The fact that *-t-* is a fortis consonant, whereas Hittite shows lenis /-d-/, can only be

Once also $ap\bar{e}nzan$ (KUB 45.49 iv 4, 6 (NS)), with a long \bar{e} that must have been taken over from nom. pl. c. $ap\bar{e}$.

Kronasser (1956: 148), e.g., states that 'ki-in-za-an = kentsan'.

Once we find a spelling ki-i-ta-aš, in KUB 43.55 v 4. Although KUB 43.55 is an OH/NS text, the form ki-i-ta-aš is found in its colophon, which makes it in fact a NH form. Therefore, but also because in ibid. 2 we find the nom.-acc. sg. n. form ki-i, which may have influenced the spelling ki-i-ta-aš, this form must be regarded as non-probative.

¹⁸ This *ebttehe/i-* must be the syncopated variant of original **ebetehe/i-* (cf. e.g. *ehbi-*, 'his', < **ebhe/i-* * **ebhehe/i-*). Occasionally, *ebttehe/i-* is attested as *epttehe/i-* as well, with automatic fortition of *-b-* to *-p-* due to contact with *-tt-*.

Alternatively, we could assume that *ebette* replaces an original **ebtte* in which the stem *ebe*- was restored. A fortis -*t*- in **ebtte* can only be explained by Čop's Law, which means that it must have been preceded by accented **é* and reflect **h*₁*ob*^{*h*}*éd*^{*h*}*os*. This would imply that it was the accented vowel that was subject to syncope, which can only be accounted for by assuming an *ad hoc* accentuation shift: **ebéte* > **ebeté* > **ebtte*. This assumption makes this scenario less attractive.

explained by assuming Čop's Law in Lyc., which means that -t- must derive from *-dhpreceded by a short accented * \acute{e} : * $h_1ob^h\acute{e}d^hos$ > *ebete.

In HLuw. the forms zi/a-tá-zi/a and kwa/i-tá-zi/a, both hapax legomena from Empire period texts, correspond in formation to á-pa-ta-za and *a-pa-tá-za.20 This means that the form za-a-ti-ia-za as commonly attested in Iron Age texts is a renewed form: it is clearly built on the dat.-loc. sg. form za-a-ti to which the ending -anz is attached. This -anz (which is also the Luw. nominal dat.-loc. pl. ending) must reflect *-oms, which apparently replaced earlier *-os as found in Hitt. -aš and Lyc. -e, probably due to generalization of the acc. pl. c. ending *-ms throughout the plural paradigm. Within the forms zi/a-tá-zi/a, á-pa-ta-za, *a-pa-tá-za and kwa/i-tá-zi/a the spelling with the sign tá is relevant. On another occasion, I will argue that this sign tá represents a nasalized dental stop, /nta/, adapting Rieken's (2010) interpretation of tá. This means that zi/a-tá-zi/a, *a-pa-tá-za and kwa/i-tá-z/ia must represent /tsantants/, /?abantants/ and /kwantants/, respectively, reflecting pre-Luwic and *kwé-n?- are taken over from the Proto-Luwic gen. pl. forms *ké-n?-som, *?obé-n?-som and $*k^w\acute{e}$ -n?-som that we must reconstruct on the basis of Lyc. $eb\tilde{e}h\tilde{e}$. These stems apparently intruded into original $*k\acute{e}-d^h-os$, $*h_1ob^h\acute{e}-d^h-os$ and $*k^w\acute{e}-d^h-os$ as attested in Hitt. kēdaš, apēdaš and kuedaš.

Stems in *-o- vs. stems in *-i-

We have seen that in the nom.-acc. sg. n. form there is evidence for both $*k\acute{o}d$ and $*k\acute{i}(d)$. It is not easy to determine whether one of these should be regarded as the older form, or if they stood side by side in PIE already. In fact, if we look at the evidence from the IE languages outside of Anatolian, we find more of these pairs. For instance, the Anatolian languages point to a nom. sg. c. *k'ós, acc. sg. c. *k'óm, 'this', whereas the forms *k'is and *k'im can be found, e.g., in OCS sz, Lith. šìs and šĩ and Goth. hina. Anatolian shows evidence for * $h_1 \acute{o}s$ and * $h_1 \acute{o}m$, 'that', whereas the forms * $h_1 \acute{i}s$ and * $h_1 \acute{i}m$ are reflected, e.g., in Lat. is and im and Goth. is and ina, etc. Such a difference is well known for the relative-interrogative pronoun as well: Anatolian has *k^wis and *k^wim (supported by, e.g., Lat. quis and quem, Gr. $\tau i \zeta$ and $\tau i v$), whereas $*k^w \acute{o}s$ and $*k^w \acute{o}m$ can be found, e.g., in Skt. $k\acute{a}s$ and $k\acute{a}m$ and Goth. has and hana. For the neuter, Anatolian shows reflexes of both $*k^wid$ (supported, e.g., by Lat. quid, Gr. τi and Av. cit) and $*k^w \acute{o}d$ (supported by Lat. quod, Skt. kát and Goth. ha). It is sometimes stated that the stem k^wi - was substantival, whereas k^wo - was adjectival (e.g. Beekes 1995: 203; Meier-Brügger 2002: 231). Such a difference may then possibly also underly the difference between *ki- and *ko-, 'this (one)', and $*h_1i$ - and $*h_1o$ -, 'that (one)'. In Anatolian, all oblique forms univocally point to a stem *Cé-.

Summarizing, the Anatolian evidence points to the following (quasi-)PIE reconstructions:

sg. pl. nom. c. *
$$C\acute{o}$$
- s * $C\acute{t}$ - s * $C\acute{o}$ - i * $C\acute{t}$ - $es(?)$ acc. c. * $C\acute{o}$ - m * $C\acute{t}$ - m * $C\acute{o}$ - ms * $C\acute{t}$ - ms nom.-acc. n. * $C\acute{o}$ - d * $C\acute{t}$ (- d) - * $C\acute{t}$ - h_2 gen. * $C\acute{e}$ - d^h - $(nh_I$ - $)i$ * $C\acute{e}$ - $(nh_I$ - $)d^h$ - os abl.-instr. * $C\acute{e}$ - t

Apart from the specific gen. sg. ending *-l and the elements *- nh_{l} - and *- d^{h} -, which seem to have had a certain productivity in the oblique forms, the Anatolian pronominal system is clearly built up from Indo-European elements. The distribution between the stem *Co-/*Ci- in the nom.-acc, forms vs. the stem *Ce- in the oblique forms is remarkable, and must in my view be original.

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²⁰ I.e., with initial-a-final (Hawkins 2003: 159): pa-tá-za-pa-wa/i-ta-' (KARKAMIŠ A11b+c § 8), pa-táza-pa-wa/i-' (KARKAMIŠ A25a § 2), cf. Hawkins (2000: 103, 122).

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