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BALTIC ē- AND ī/jā-STEMS

Eighty years ago, Nicolaas van Wijk tried to identify Baltic \bar{e} - and $\bar{t}/j\bar{a}$ -stems in the Old Prussian catechisms (1918, 29–32) This resulted in the following classification of the evidence (acc sg forms unmarked)

(1) \bar{e} -stems

I semmin, II semmien, E semmien (8x), semien (2x), semman, dat I semmey, II semmiey, nom E semmē, EV same, Lith žeme, Latv zeme

I muttin, II mutien, E mūtien, mutien, mūtin, nom mūti, EV mothe, Lith mote, Latv māte

I geiwin, II geywien, E gijwin, gen gijwis, nom giwei, Latv dzīve

E perōnien (3x), perōnin (2x), nom perōni

E warrien, warrin (2x), warein (2x), nom Latv vara, vare

E peisālin, nom peisālei

E teisin (5x), teischin, gen teisis, nom teisi, Lith teise, tiesa

(2) possible \bar{e} -stems

E sālın, nom EV soalıs, Lith žole, Latv zāle

II druwin, E drūwien (3x), druwien (7x), nidruwien, nom druwi, druwis, I droffs

E dūsin, dusin, doūsin, daūsin (2x), nom EV dusi < Polish dusza

E tickrömien (2x)

(3) *1*-stems

I nactin, II naktin, E naktin, nacktin, nacktien (2x), nom Lith naktis

E nautin (2x), nautien, dat nautei

(4) $\bar{\imath}/j\bar{a}$ -stems

E mārtin, mārtan, nom Lith marti

E waispattin (2x), nom Lith viešpati

E maldūnın (2x)

(5) ja-stems

I rekian, II reykyen, E rikijan (31x), rickijan, gen rikijas (6x), nom I rekis, rickis, II rykyes, reykeis, E rikijs (24x), rickijs, rikeis

I tawischen, II tauwyschen, E tawischan (4x), tawischen, tawisen, gen I tawischis (2x), II tauwyschis, tauwyschies, E tawischas (3x)

(6) possible ja-stems

I naseilen (2x), II naseylien (2x), E noseilien (7x), noseilin (5x), nuseilin, gen 1 naseilis, II naseylis, E noseilis (2x), noseilīs, nom nosēilis, noseilis (2x)

I pekollin, II pykullien, E pickullien (2x), gen pikullis, nom EV pyculs

I geittin (2x), II geytien, E geitien (2x), geitin (3x), geitan, nom geits, EV geytye (for -ys)

I etwerpsannan, attwerpsannan, II etwerpsennian (2x), E etwerpsennian (2x), etwerpsennien (7x), etwerpsennin, etwerpsenninn, nom etwerpsnā (2x), etwerpsna (2x)

I tırtın, II tırtıen, E tīrtıan, tīrtın, tīrtan, dat tīrtsmu (3x), nom I tırts, II tırtıs, E tīrts (2x)

E busennien (2x), bousennien, bausennien (5x), nom bousennis

E aucktımmıen

E nertien (3x), gen nierties

E pogirrien, nom Lith pagyris

Most acc sg forms in -in, -ien cannot be identified as belonging to the i-, ja- or \bar{e} -stems (v a n W 1 J k, 1918, 37–39) If we eliminate the less reliable instances, the evidence for the acc sg endings can be summarized as follows

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\bar{e}-stems I -in (3x), II -ien (3x), E -ien (12x), -in (2x) i-stems I -in, II -in, E -in (4x), -ien (3x)
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 $\bar{\imath}/j\bar{a}$ -stems E - $\imath n$ (5x)

ja-stems I -1an, -en, II -yen, -en, E -1jan (32x), -an (4x), -en (2x)

On the basis of the evidence I reconstruct for the \bar{e} -stems */-ien/, for the i- and $\bar{\imath}/j\bar{a}$ -stems */-in/, and for the ja-stems */-jæn/ (cf K o r t l a n d t, 1998a, 1998b) The ending */-ien/ was written -in in the First catechism, was corrected to -ien in the Second, and became mixed up with the ending */-in/ in the Enchiridion before the generalization of the ending */-an/ of the a-stems Accordingly, the expected acc sg ending is for the \bar{e} -stems -ien (written -in in the First catechism), for the i- and $\bar{\imath}/j\bar{a}$ -stems -in (all sources), and for the ja-stems -(i)an, -(i)en (which may be written -in in I and E) This leads me to disagree with v an Wijk's identification of the stem formation in the following instances

E nom teisi, acc -in (6x) is probably an $\bar{i}/j\bar{a}$ -stem

EV nom soalis, E acc sālin is probably a ja-stem

I nom *droffs*, II acc *druwin*, E nom *druwis* suggests an *i*-stem, whereas E nom *druwi*, acc -*ien* (11x) points to an *e*-stem This word will be discussed below

EV nom dusi, E acc -in (5x) is probably an $i/j\bar{a}$ -stem

I naseilen (2x), II naseylien (2x) is definitely a ja-stem

I etwerpsannan, attwerpsannan may belong either with II etwerpsennian (2x), which is a ja-stem like E nom bousennis, acc -ien (8x), or with E nom etwerpsnā (2x), etwerpsna (2x), which is an \bar{a} -stem

We now turn to the Elbing Vocabulary In an important but neglected article (1973), Jules L e v i n has identified $137 \bar{e}$ -stems (47 of which have an equivalent in Lithuanian)

and $25\,\bar{\imath}/\bar{\jmath}a$ -stems. He makes clear that the difference cannot be attributed to phonological variation or dialect mixture but represents a genuine morphological distinction. While 35% of the \bar{e} -stems have East Baltic equivalents, the $\bar{\imath}/\bar{\jmath}a$ -stems have East Baltic cognates which are $j\bar{a}$ -, ja- or i-stems. While almost a third of the \bar{e} -stems represent suffixal or prefixal derivations or compounds, derived $\bar{\imath}/\bar{\jmath}a$ -stems are few and semantically detached. Levin points out that over 60% of the $\bar{\imath}/\bar{\jmath}a$ -stems belong to three out of eleven semantic groups (landscape and natural phenomena, body parts and diseases, agriculture and related terms), whereas none is found in the group denoting wildlife, which contains 34 \bar{e} -stems. He argues that among the loanwords from Slavic, the \bar{e} -stems medinice, nadele, calene represent an older stratum than the $\bar{\imath}/\bar{\jmath}a$ -stems dusi, garkity, knapios, evidently as a result of the rise of new */ \jmath / in Proto-Lekhitic (cf. Kortlandt, 1979b, 271). The Prussian $\bar{\imath}/\bar{\jmath}a$ -stems have recently been discussed by Kaukiene (1996), who unfortunately disregards most of the scholarly literature

The morphological distinction between \bar{e} - and $\bar{t}/j\bar{a}$ -stems is found not only in Prussian, but also in Lithuanian, where the latter type is preserved in *marti*, gen *marčios*, and *pati*, gen *pačios* We may therefore look for correspondences in Slavic and other Indo-European languages. The classic study on the subject is by Holger P e d e r s e n (1926). In his discussion of the Lithuanian \bar{e} -stems, Pedersen distinguishes between the following types

- (1) žvake, mente, gire, Latin facēs, Vedic mánthās, girís, Slavic gora These are eH_{l} -stems
- (2) arklide, avide, alude, pelude, also žvaigžde, Prussian EV umnode, Slavic zvězda, Vedic -dhā, Latin -dēs These are compounds of the root *dheH_I- 'put'
 - (3) šlove, Slavic slava, Latin cluëre, which may also be an eH_I -stem
 - (4) gerve, Latin $gr\bar{u}s$, which may be an uH_1 -stem
 - (5) žeme, Slavic zemlja, which is an extension of a root noun, like upe, saule, muse, pele Besides, there are two types which represent Proto-Indo-European iH-stems
- (6) vilke, nepte, Vedic vrkī́s, naptī́s This type is usually represented by Slavic -ica (cf Lohmann, 1932, 21, 24)
- (7) deive, Vedic devi This type can easily have replaced the flexion of marti and pati on the analogy of the preceding type

It thus appears that the \bar{e} -stems represent original hysterodynamic eH_1 - and iH-stems (with accentual mobility between the stem and the ending), whereas the $\bar{\imath}/j\bar{a}$ -stems directly continue proterodynamic iH_2 -stems (with accentual mobility between the root and the suffix), cf Vedic $vrk\bar{i}s$, gen vrkias < *-iHos, versus $dev\bar{i}$, gen $devy\bar{a}s < *-ieH_2s$. The two types of iH-flexion are attested in Slavic, e.g. in sodin, sodin, gen sodine 'judge' and mloni, mlonii, gen mlonie 'lightning' versus bogynii, gen bogynie 'goddess' (cf. especially L o.h m. a.n., 1932, 60–62). It has long been recognized that as a rule the former type is found in derivations from o-stems and the latter type in derivations from consonant stems (e.g. L o.h m. a.n., 1932, 22, 67). This explains the ending of Prussian EV sansy as op-

posed to the 34 ē-stems denoting wildlife, including 19 species of wild birds, which correspond to the regular type of Lith. vilkė, cf. žąsis, gen. pl. žasų, versus vilkas.

The distinction between hysterodynamic and proterodynamic iH-stems has a perfect analogue in the distinction between hysterodynamic and proterodynamic uH-stems. P e d e r s e n reconstructs a proterodynamic paradigm *plēdhū, gen. *plēdhuēs < *-ueH₁s for Latin plēbēs and Greek plēthūs, and similarly for Lith. gervė and Latin grūs (1926, 63, 71). There is no reason to reconstruct an original hysterodynamic paradigm on the basis of Greek gen. plēthúos (thus Beekes, 1985, 39 and Schrijver, 1991, 380f.) because the latter can easily be analogical. Note that Latin -b- represents intervocalic *-dhw-, not intervocalic *-dh- (as in vidua 'widow'), and cannot therefore be derived from *-dhuH-. Similarly, I reconstruct a proterodynamic paradigm for Avestan hizū-, hizvā-, Vedic juhū-, jihvā-, Prussian EV insuwis, in spite of Gāthic gen. hizvō < *-uHos, which can easily have arisen on the basis of the original accusative *-uHm, cf. Gāthic acc. $tanv\bar{\rho}m$, which is trisyllabic like gen. $tanv\bar{o} < *-uHos$. The motivation for the restoration of the laryngeal in the oblique cases of the Avestan word for 'tongue' was probably the phonetic development of *-zv- to *-zb- in Iranian, which gave rise to a paradigm *hizū, *hizu'am, *hizbā-, with an oblique stem which is preserved in later Iranian languages. In the Rgyeda we find acc. juhuàm beside jihvám, inst. juhuà beside jihvá and jihváyā, gen. and abl. jihváyās, nom. pl. juhuàs beside jihvás, inst. pl. juhúbhis beside jihvábhis, and the compound juhu-àsyas beside nom. sg. jihvá. This points to a paradigm *juhū, *juhu'am, obl. jihvā-, in accordance with the Iranian forms. Note that Vedic acc. devim must be analogical in view of the root agrist 1st sg. ábhuvam < *-uHm, with vocalization of the final nasal, as opposed to monosyllabic $-\bar{a}m < *-eHm$, with compensatory lengthening of the vowel.

The flexion of the hysterodynamic uH-stems is best preserved in Slavic svekry, gen. svekrove 'mother-in-law'. Jan Rozwadowski has shown that the original accusative is svekrovb < *-euHm, not -6vb (1914, 14-18). This must be a highly archaic form because there is no model for an analogical origin. The elimination of the isolated full grade suffix in other Indo-European languages is a trivial development. The antiquity of the Slavic paradigm is corroborated by the regular loc. sg. and nom. acc. pl. endings -i, which are identical with the i-stem endings and differ from the endings of both the a-stems and the consonant stems. This is especially remarkable because we find the \bar{a} -stem endings in the dat., inst. and loc. pl. forms. I conclude that we have to reconstruct loc. sg. *-euHi, nom. pl. *-euHes, acc. pl. *-euHns, which yielded the attested loc. sg. and acc. pl. endings. The nom. pl. form adopted the acc. pl. ending, as happened with all feminine nouns in Slavic. The early introduction of the \bar{a} -stem endings in the oblique plural cases suggests the previous existence of *-H₂es in the nom. pl. ending. Thus, everything seems to point to an original hysterodynamic paradigm *suekruH2s, *-euH2m, *-uH2os, as opposed to proterodynamic * $pleH_1dhuH_1$, * $-ueH_1s$, and comparable with e. g. the nt-participle * H_1eints . * H_1 ientm, * H_1 intos (cf. Beekes 1985, 70).

The Latin material has been discussed in detail by Peter Schrijver (1991, 363–390). He argues that hysterodynamic \bar{e} -stems like $v\bar{a}t\bar{e}s$ joined the third declension whereas root nouns such as $sp\bar{e}s$ became the core of the fifth declension. Furthermore, he tentatively distinguishes between four types of iH-stems:

- (1) proterodynamic iH_2 -stems, which are reflected in the formations of *genetrīx*, $r\bar{e}g\bar{\imath}na$, avia, and denominal abstracts like $m\bar{\imath}litia$.
- (2) proterodynamic iH_I -stems, which are reflected in deverbal abstracts of the fifth declension such as $aci\bar{e}s$.
- (3) hysterodynamic iH_2 -stems, which are reflected in denominal abstracts and collectives like $m\bar{a}teri\bar{e}s$, gen. $m\bar{a}teriae$.
- (4) hysterodynamic iH_I -stems, in particular neptis, which may be compared with socrus. In order to explain the $i\bar{e}/i\bar{a}$ -flexion of $m\bar{a}teri\bar{e}s$, Schrijver assumes that original *- iH_2m yielded Latin -iem which then served as a basis for the creation of a nominative in - $i\bar{e}s$. This is highly improbable in view of the subjunctive ending 1st sg. - $im < *-im < *-iH_1m$. It follows that the flexion of the types represented by $m\bar{i}litia$ and $aci\bar{e}s$ is based entirely on the proterodynamic oblique cases. The $i\bar{e}/i\bar{a}$ -flexion of $m\bar{a}teri\bar{e}s$, gen. dat. -iae now offers independent evidence for the reconstruction of an accusative in *- eiH_2m , the phonetic reflex of which was *- $\bar{e}m$, cf. $tr\bar{e}s < *treies$, in agreement with the Slavic evidence for hysterodynamic *-euHm. Note that Slavic antevocalic *-ei- yielded *-ij-, e. g. in trije < *treies, so that the full grade suffix was lost phonetically in the hysterodynamic iH-flexion.

S c h r i j v e r's evidence for reconstructing *- H_I - instead of *- H_2 - in neptis and socrus is delicate, as he points out himself (1991, 365). Moreover, it seems to be contradicted by the \bar{a} -stem endings in the Slavic oblique plural cases of svekry. If the suffix was *- uH_I -, we would expect i-stem endings here. However, it must be recalled that Baltic \bar{e} -stems are usually reflected as \bar{a} -stems in Slavic, e. g. $zv\bar{e}zda$ 'star'. I therefore see no cogent objection to the view that the Slavic evidence for the color of the laryngeal can be disregarded. Note that we have *- H_2 - in Old Polish kry 'blood', cf. Greek kréas. Besides, I find it very difficult to see how Latin neptis and socrus could avoid becoming \bar{a} -stems if they had an a-coloring laryngeal. I therefore subscribe to S c h r i j v e r's view that these two nouns represent hysterodynamic iH_I - and uH_I -stems.

The reconstruction of a hysterodynamic accusative in *-euHm provides an elegant solution for the coexistence of *vidhū- and *vidhevā- in the word for 'widow', Prussian widdewū (cf. B e e k e s, 1992, 184). This word evidently represents the hysterodynamic uH_2 -stems and thereby supports the reconstruction of *- H_1 - in the word for 'mother-in-law'. The preservation of the front vowel in the medial syllable of Prussian widdewū, as opposed to the regular development of heterosyllabic *-eu- in Slavic vōdova (cf. K o r t l a n d t, 1979a, 57), suggests that *-eu- spread to the nominative at an early stage and that we have to reconstruct a Balto-Slavic nom. sg. form *videuH.

Now we return to the Prussian material The reconstruction of acc sg *-eiHm for the hysterodynamic iH-flexion offers a straightforward explanation for the peculiar accusative warein (2x) and the nominatives giwei and pisalei. It appears that there was a paradigm with nom -ei and acc -ein beside the dominant paradigm with nom -ē and acc -ien and the proterodynamic $\bar{\imath}/\bar{\imath}a$ -flexion with nom -i and acc -in The type in -ei, -ein evidently represents the original iH_I-stems reflected in the Latin deverbal abstracts like aciēs Interestingly, Slavic neti, netii, Old Polish niec, Czech net', gen neteře, Slovak neter (but cf Vaillant, 1958, 258) shows that the flexion of this hysterodynamic iH_I -stem remained distinct from the flexion of the proterodynamic iH_I -stems even if the latter adopted the acc sg ending *-eiHm in Prussian It follows that all of the reconstructed types must have existed side by side in Balto-Slavic The proterodynamic iHi-stems can now be identified with the Slavic type volja 'will' (cf Stang, 1957, 57) The corresponding type of proterodynamic uH_I -stems is reflected in kletva 'oath'. It appears that the proterodynamic iH_1 -stems joined the proterodynamic iH_2 -stems in Lithuanian, e.g. valia, gen valios, cf also Latvian vara beside vare In Slavic, the hysterodynamic type sodi(i) may include original iH_{I} - as well as iH_{2} -stems while denominal nouns like $ko\check{z}a$ 'skin', which belong to the same type as volia, may represent earlier proterodynamic iH_2 -stems Note that from a semantic point of view Vedic $rath\tilde{i}s$ 'charioteer', like the Slavic word for 'judge', fits Latin vātēs better than māteriēs and may therefore contain *- iH_{I} - whereas *- iH_{2} - is probable for feminines such as Slavic mloni(i), Prussian EV mealde This leads us to the following tentative classification of the Balto-Slavic materıal (Prussian unmarked)

- (1) hysterodynamic eH_I -stems and original root nouns umnode, Lith gire, $\check{z}vaig\check{z}de$, Russ gora, zvezda
 - (2) hysterodynamic uH_l -stems and original root nouns Lith $\delta love$, Russ slava, svekrov'
 - (3) hysterodynamic uH_2 -stems and original root nouns widdew \bar{u} , Russ vdova, krov'
 - (4) proterodynamic uH_l -stems gerwe, Lith gerve, Czech $\check{z}er\acute{a}v$, Russ kljatva
 - (5) proterodynamic uH_2 -stems insuwis, Lith liežuvis, Russ jazyk
 - (6) hysterodynamic iH₁-stems Lith nepte, Russ sud'ja
 - (7) hysterodynamic iH_2 -stems mealde, Lith vilke, Russ molniya, $vol\check{c}ica$
 - (8) proterodynamic iH_l -stems giwei, Lith valia, Russ volja
 - (9) proterodynamic iH2-stems sansy, Lith pati, Russ boginja, koža

Most important is that in Prussian, unlike East Baltic and Slavic, the proterodynamic ιH_I -stems adopted the flexion of the hysterodynamic ιH_I -stems and thereby remained distinct from the proterodynamic ιH_2 -stems. This points to an early split. Also noteworthy is that in Slavic the H_I -stems were evidently redistributed according to animacy and gender. Russian gora, zvezda, slava, kljatva, volja versus sud ja versus svekrov, Czech net, žerav, similarly in the Slavic proterodynamic ιH_2 -stems koza versus bogynji. The \bar{a} -stem flexion of the type sodi(i) is therefore remarkable and must probably be attributed to a compara-

tively recent phonetic development. This supports the reconstruction of *- ιH_I in $sodi(\iota)$ versus *- ιH_2 in $ml\delta n\iota(\iota)$

Apart from the iH_I -stems, which remained a distinct category in Prussian but joined the corresponding iH_2 -stems elsewhere, it appears that the West and East Baltic reflexes are usually in agreement. We often find a neuter in -jan beside a collective in - \bar{e} or - $j\bar{a}$, e.g. EV garian, E garrin 'tree' beside Lith gire, giria 'forest', further I kraugen, E krawian beside krawia, EV crauyo 'blood', also EV soalis, E $s\bar{a}lin$ 'herb' beside Lith $z\bar{o}le$ 'grass'. This model can hardly account for I stas droffs, corrected in II stan druwin, E (stas) druwis beside sta druwi, acc -ien (11x), which points to an original neuter i-stem beside the feminine \bar{e} -stem. Similarly, we find a neuter nom giywan, giwan, gen $g\bar{i}was$ (2x), geiywas, acc -ien (9x), beside the feminine giwei, gen giywis, acc giywin, I geiwin, II geiwin As these deverbal abstracts fit the iH_I -stems semantically, it seems probable to me that the neuter i-stem, which could either become masculine or adopt a-stem endings, was created on the basis of the oblique cases with zero grade suffix *-i- of the feminine nouns in -ei, acc -ein This again confirms the paradigms of Latin $m\bar{a}teri\bar{e}s$ and Slavic svekry discussed above

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