Alfred Heubeck

mag in der Formel *χρυσέοι έν δέπαϊ die Prosodie des letzten Wortes durch eine Anlautkonsonanz des folgenden Wortes besser begründet gewesen sein.

- Die Erstveröffentlichung des Textes bietet γηραιά ῥιθμήσασ'; W.PEEK, ZPE 18 (1975) 292 hat mit Recht an dieser Schreibung Anstoß genommen und γήραι άρ. vorgeschlagen.
- 8) In nachalexandrinischen Epigrammen findet sich Υήρα; vgl.
 W.SCHULZE, Quaest.ep. (1892) 49 (Anm.5 zu S.48). S. weiterhin P.CHANTRAINE a.O.209.
- 9) In Auseinandersetzung mit früheren Auffassungen hat K. MEISTER a.O.130f eine plausible Lösung vorgeschlagen; weniger überzeugend E.SCHWYZER a.O. I 515.
- 10) Die genannten verschiedenen Entwicklungen hängen u.a. zusammen mit dem Bestreben, die isolierten -s-Stämme (also alle, die nicht dem häufigsten Bildungstyp auf -og angehören) in geläufigere Klassen zu überführen; in mehreren Fällen erfolgt die Überführung in die -t-Flexion, bei Homer beginnend mit den - $\omega_{\rm C}$ -Nomina (xoéa neben xoŵt'), aber noch nicht bei den - $\alpha_{\rm C}$ -Nomina (xoéa reben xoŵt'), aber noch nicht bei den - $\alpha_{\rm C}$ -Nomina (xoéa reben xoŵt'), situation in μ 394: Neben überwiegend überliefertem, richtigem tépaa findet sich tépata (U) und tépea (W).
- Vgl. O.SZEMERÊNYI, SMEA 3 (1967) 78f; vielleicht ist sogar (wie im Att.) bei Homer ein (unregelmäßig gebildetes) ιδρόω anzunehmen.
- 12) P.CHANTRAINE a.O. I 211.
- Das schwierige Problem έρως, έρος bleibt hier außer Betracht, ebenso χρώς, dessen Dativ χροΐ stets in der Form ~ erscheint.

M55 37: 77-90

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Observations on the Germanic Verschärfung

§1 The conditions under which IE *-i- and *-u- underwent Verschärfung to *-jj- and *-ww- in Germanic, yielding -ddj-, -ggw- in Gothic and -ggj-,-ggv- in Old Icelandic, remain obscure. Despite attempts by Neogrammarians such as KLUGE (*Beiträge zur Geschichte der germanischen Konjugation*, 127 ff.) and HIRT (*Idg. Gr.* 5, 102 ff.) to relate the appearance of *-jj- and *-ww- to the position of the IE accent, no purely phonological explanation for the Germanic facts appears to be possible within the framework of "classical" Indo-European. Likewise unconvincing is MEILLET's attempt (MSL 22, 61 ff. (1922)) to explain Verschärfung as the result of expressive gemination: it would clearly be inadmissible to suppose that a form like the gen. pl. of the word for 'two' (cf. Go. *twaddje*, OI *tveggja*) was subject to such a development¹.

Modern treatments of Verschärfung have rather sought to discover a "morphological" basis for the phenomenon, or to explain it in terms of the laryngeal theory. The outstanding example of the former approach is KURYLOWICZ' view (La. 43, 445 ff. (1967)) that sequences of the type *-CVijV- and . *-CVuwV- arose in Germanic as secondary full-grades to inherited zero-grades of the form *-CijV- and *-CuwV-: a verb like *hawwan 'chop' (= OI hqggva, OHG houwan) would thus have replaced an earlier **hawan*, the original participle of which (*huwana-) exhibited an apparent zero-grade allomorph *huw-. The basic difficulty with this interpretation lies in the fact that zero-grade forms of the required type are frequently not attested at all (the participle of *hawwan, for example, is reconstructable as *hawwana-), and in many cases Verschärfung is encountered in derivationally isolated words in which the root shows an invariant full-grade (cf., e.g., OI kleggi

'gadfly' < *klajjan-, dqgg 'dew' < *dawwō). An extended critique of KURYLOWICZ' theory is given by LINDEMAN, NTS 23, 25 ff. (1969).

The initial attempt to relate the appearance of Gmc. § 2 *-jj- and *-ww- to the former presence of an IE laryngeal was made by H.L.SMITH, Lg. 17, 93 ff. (1941). SMITH supposed Verschärfung to have resulted from earlier sequences $*-H_2$ and $*-H_{\mathcal{U}}$ when the accent immediately followed; modifications of this analysis were subsequently offered by STURTEVANT, The Indo-Hittite Laryngeals, §75, and AUSTIN, Lg. 22, 109 ff. (1946), Lg. 34, 203 ff. (1958). W.P.LEHMANN, PIE Phonology, 36 ff., proposed to derive Gmc. $*-\omega\omega$ - from IE $*-\mu$ -, and Gmc. *-jj- from *-iH- or *-Hi-, depending on the quality of the preceding vowel. More recently, LINDEMAN has suggested that the gemination of *-i and *-u in the neighborhood of a laryngeal took place not in the Germanic period, but in Indo-European itself (Les origines de la 'Verschärfung' germanique (1964)).

These theories have not been generally accepted²⁾. There are, to be sure, a substantial number of Germanic forms with Verschärfung in which the former presence of a laryngeal in the neighborhood of the affected glide can safely be assumed (cf. OI byggva, byggja 'dwell' beside Skt. inf. bhavitum 'be', aor. $\dot{a}bh\bar{u}t < *bheuh_2-$; Go. waddjus, OI veggr 'wall' beside Lith. výti 'wind', Ved. ptcp. vītá- 'wound' < *ueih_1-; OI Frigg (divine name) beside Ved. prīņāti 'delights', super1. práistha-'dearest' < *preih_r - or *preh_ri-, etc.). But there are difficulties as well. Consonantal reflexes of laryngeals, including gemination, are hardly attested outside Anatolian³⁾; even in the few extra-Anatolian examples where a laryngeal can be shown to have affected a neighboring consonant - the change of *th_2 to *th in Indo-Iranian, for example - the result is a single phoneme, not a geminate. LINDEMAN, who attributes the lengthening of *-i and *-i to the Common IE period, does so at the cost of assuming a sporadic rule for the parent language.

A more fundamental problem arises from the frequent difficulty of determining whether a reconstructed laryngeal originally preceded or followed the glide which it is alleged to have geminated. The verb *hawwan poses a dilemma of this kind: while Toch. B kaut-'split' and Lat. caudex suggest a root-form *keh₂u-, the acute intonation of Lith. káuti 'strike' and the vocalism of OCS kovq, kovati 'forge' point rather to *keuh₂-. Similarly, OI skeggja 'axe' seems to contain an *i*-extended form of the root *skeh₂- 'cut' (cf. Skt. caus. chāyayati beside ptcp. chāta- 'cut off'), but OIr. saïan 'knife' presupposes a zero-grade *skih₂- rather than *skh₂*i*-. Other such cases will be discussed below; taken together, they help explain why the theories just discussed fail so conspicuously to agree on the precise environments in which Verschärfung took place⁴).

§3 In what follows I should like to outline a solution to the problem of Verschärfung which appears to account satisfactorily for the attested Germanic forms, but which avoids the necessity of assuming that IE sequences of glide + laryngeal or laryngeal + glide were converted to Germanic geminate glides by a process of direct phonetic assimilation.

We may begin by observing that sequences of the type $*-VH_k^{-}$ and $*-VH_k^{-}$ apparently yielded $*-\bar{v}_k^{-}$ and $*-\bar{v}_{k-}^{-}$ in Germanic, as elsewhere in Indo-European. Examples of this treatment are numerous: cf. $*s\bar{e}jan$ 'sow' (= Go. saian, OHG sāen) < $*seh_1^{-}$ -ie/o-, $*d\bar{e}jan$ 'suckle' (= OHG tāen) < $*dheh_1^{-}-ie/o-$ or $*dheh_1i-$ -e/o- (cf. §7), $*st\bar{o}wijan$ 'judge' (= Go. stojan) < $*stoh_2^{-}u^{-}$ -eie/o-, *laigon 'lick' (= Go. bi-laigon) < $*loigh-eh_2^{-}ie/c^{-}$, etc. Any theory of Verschärfung which attributes the gemination of $*-i^{-}$ and $*-u^{-}$ to a preceding laryngeal, therefore, must

immediately encounter grave difficulties; from an aprioristic point of view, SMITH's attempt to trace Gmc. *-ww- to IE *-Hyis less attractive than a theory like LEHMANN's, which derives *-ww- from IE antevocalic *-yH-. (To be sure, LEHMANN traces Gmc. *-jj- to both *-Hj- and *-jH-; this, as we shall see below, is an error.)

Let us now consider in detail the assumptions needed to explain a form like OI byqqva, -ja in terms of the laryngeal theory. The formal structure of this verb is clear: it is a weak present in *-i-/*-ija-, possibly of denominative origin, containing the root of Ved. bhavati 'is' < *bheuh,eti. To derive Gmc. *bewwi- from *bheuh,-eke-5), laryngealists have typically posited a direct phonetic gemination of $*-uh_p$ - to *-uu-, but this assumption is gratuitous. Before the loss of intervocalic *-h_-, Pre-Gmc. *bheuh,-eje- would have had the syllabic structure *bheu-h_e-ie-, with the diphthong *-eucontained entirely within the first syllable. The loss of intervocalic *- h_{0} -would initially have produced a hiatus; the resulting form, after the usual Germanic sound changes, would have had the syllabic structure *beu-i-, which we may represent by writing *beu'i-. Note now that there is no need to suppose that such a sequence would automatically have developed further to *bewi-, with a transfer of the second element of the diphthong to the following syllable. Rather, it may be suggested that the hiatus between *-eu- and *-a- was eventually filled by a euphonic glide *-w-: there would thus have arisen a stem-form *beuwi-, in which the sequence *-euwicontrasted with phonologically possible *-ewi- < IE *-ewi-. Subsequently, intervocalic *-uw- could have been reinterpreted as a phonological geminate, and *beuvi- would have assumed the shape *bewwi- (> *biwwi- > OI byggvi-)^b.

The same explanation may in principle be applied to other instances of Verschärfung in which an antevocalic laryngeal historically followed an *i*- or *u*-diphthong. We shall consider the clearest such examples in §5; for ease of exposition, however, it will be useful to discuss first the extension of the above hypothesis to the more difficult case of forms like *hawwan.

§4 We have seen above that the extra-Germanic cognates of *hawwan point partly to a root $*keh_2u$ - and partly to a root *keuh₂-. In my view the most satisfactory explanation for root-variants of this kind was proposed by WINTER, Evidence for Laryngeals, 192 ff. Noting the frequency with which reflexes of *-i- and *-u- appear in the daughter languages as zero-grades to full-grade sequences of the type *-eHi- and *-eHu-, WINTER conjectured that an IE metathesis rule converted inherited *-Hi- and *-Hu- to *-iH- and *-uH- before a following consonant⁷. Indo-European would thus have had roots, or root-like complexes, of the form *TeHi-, *TeHu-, with zerogrades *TiH- and *TuH-. This situation, naturally unstable, could casily have led to the analogical replacement of *TeHi-, *TeHu- by new full grades of the type *TeiH-, *TeuH-.

Gmc. *hawwan, I would suggest, was originally a present in *-u- to a root which may be reconstructed as $*keh_2$ -. There is considerable reason to believe that u-presents in Indo-European were historically characterized by an alternation between full-grade and zero-grade root-forms (cf. Ved. tarute 'conquers' (< *terh_2-u-) beside thematized turvati 'id.', Hitt. tarhuzzi 'is able' (< *trh_2-u-), or Gk. $\zeta \omega \omega$, Toch. B 3 sg. saim 'lives' (< * $g^{ik}ieh_{3}-u-$) beside Ved. jivati, Lat. uiuit, etc. (< * $g^{ik}ih_{3}-u-$)). The present stem of * keh_{2} - was thus perhaps originally * $keh_{2}-u-/*kh_{2}-u-$; with coloration and metathesis this yielded * $kah_{2}u-/*kuh_{2}-$, the first term of which was replaced by analogical * $kauh_{2}-$ in the dialectal period. The `attested forms of *hawwan ultimately point to a full-grade

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thematic present $*kauh_2 - e/o -$, which gave *hawwa - via the intermediate stages *hau'a - and $*hauwa - {}^{8)}$.

§5 In the following lexical items, the geminates *-jj- and *-ww- can plausibly be attributed to the former presence of a sequence of the type *-AUHA- (A = any vowel, U = i or u, H = any laryngeal), where *-UH- may be original, as in *bewwijan, or the replacement of earlier $*-HV_-$, as in *hawwan.

OI bygg, OE bēow, etc. 'barley' (< *bewwa-): the late IE preform was probably a thematic adjective *bheuh₂o-, with the same root as OI byggva; for the semantics compare Gk. φ otóv 'plant' and perhaps also Arm. bois 'sprout'. Note also OI bjó, 1 pl. bjuggum, the preterite of búa 'dwell' (< *bhuh₂-ie/o-), which indirectly presupposes a perfect 3 sg. *bebawwe < *bhebhouh₂e.

OE brēowan 'brew', OI ptcp. brugginn (< *brewwan): the closest extra-Germanic cognates are Lat. feruō, -ere and MIr. berbaid 'boil' (: MW berwi 'id.'), which appear to contain a u-extended form of the root found in Lat. fermentum. A rootfinal laryngeal is suggested by Lat. dēfrūtum (Plt., Ps. 741) and Thracian βρῦτον, βρῦτος, βροῦτος 'kind of fermented drink', which show a metathesized zero-grade *bhruh_x-; seemingly anit forms like OIr. bruth 'fury' and OE brop 'broth' can be compared typologically with the second member of pairs such as Ved. bhūtá-: Gk. φῦτόν (see above) or Ved. pūtá- 'purified' : Lat. pūtus 'pure'⁹. The Germanic verb is probably ultimately referrable to an athematic present *bherh_xu-/*bhruh_x- (< *bhrh_x⁻ -u-): from the zero-grade was created an analogical fullgrade *bhreuh_x-, which became the basis for a thematic present *bhreuh_x-e/o-.

OE $c\bar{e}owan$, OHG kiuwan 'chew' (< *kewwan): a set root is apparently indicated by OCS 3 pl. $\check{z}ijqt$ 'chew' < * $\check{z}\bar{u}je$ - < * $\hat{g}iuh_{r}-ie/o$ -; the corresponding full-grade * $\hat{g}ieuh_{r}$ - appears in Lith. $\check{z}i\check{a}unos$ 'jaws'. The West Germanic forms continue a thematic present $*\check{g}ieuh_x-e/o-$. Here too belongs OI tyggva 'chew', which owes its initial consonant to the influence of the synonymous verb tggla.

OE clæ3 'clay' (< *klajja-): a nasal-infix present *gli--n-eh_x-ti, presupposing a root *gleih_x-, is reconstructable for dialectal Indo-European on the basis of OIr. glenim, MW glynaf 'I stick (to)' and OHG klenan 'stick, smear'. Gmc. *klajja- continues a deverbative thematic noun *gloih_-o-.

OI skeggja 'axe' (< *skajjon-): a zero-grade *skih₂- is attested in Ved. chyát(i) 'cuts off' and, as noted above, in OIr. scian 'knife'; *skajjon- contains the corresponding ograde *skoih₂-. The underlying root is probably best reconstructed as *skeh₂- (cf. Skt. ptcp. chāta-), to which an *i*element parallel to the *-u- of * g^{k} ich₃-u-, *terh₂-u-, *keh₂--u-, etc. was added in the present (see note 14 below). The full-grades *skeih₂- and *skoih₂- would then have been created in the usual way to the zero-grade *skih₂-, itself the product of metathesis from earlier *skh₂-*i*.

OE scēawian, OHG scouvôn 'gaze' (< *skawvôn): a set root *(s)keuh_- is indicated by Ved. $ak\bar{u}ti$ - 'intention', $ak\bar{u}ta$ -'id.' (VS), akuvate 'intends' (ŚB); other cognates, such as OCS čują, čuti 'feel, notice', are ambiguous¹⁰). The Germanic verb, an o-grade iterative of the type seen in Gk. ποτάσμαι, continues a preform *skouh_r-eh_2ie/o-; the parallel formation in *-eie/o- is represented by Gk. κοέω and Lat. caueō < *kouh_r-eie/o-.

Go. gen. pl. twaddje, OI tveggja, OHG zweiio 'duōrum' (< *twajjō̃n (-ē̃n)): the correct explanation for this muchdiscussed form has been seen by LOHR, MSS 35, 73 (1976), who, following HOFFMANN, Aufsätze zur Indoiranistik II, 561, Anm. 2, refers it to an IE gen. du. "duoi- h_x ou (cf. Ved. dváyok).

The regular reflex of $*d_uoi-h_xou$ in Germanic would have been *twajjau, from which the attested forms differ only in having substituted the regular ending of the gen. pl. for the obsolete *-au of the dual (cf. nom. *twai (Go. twai) for expected *twau). OI beggja 'ambōrum' is to be explained in the same way; priggja 'trium' is an analogical formation (cf. Go. prije).

Go. -waddjus, OI veggr 'wall' (< *wajju-): a root *ueih_x-/ *uih_x- underlies Ved. váyati, ptcp. vītá- 'weave', Lith. vejů, výti 'wind', and OIr. fenaid 'finish, "wind up"'. Gmc. *wajjuis doubtless the replacement of an earlier root noun *uoih_x-s, gen. *ueih_x-s, the acc. sg. of which (*uoih_x-m) was probably the point of departure for the creation of the Germanic u-stem.

§6 The forms just cited represent only a small fraction of the total number of Germanic words which show Verschärfung, but they constitute a clear majority of the cases for which an IE root can accurately be reconstructed¹¹⁾. It is significant that no certain counterexamples to the proposed development *-AUHA- > *-AUWA- > *-AWWA- are known. The difficulties posed by Gmc. *hrawa- 'raw' (cf. OHG (h)rao, (h)rō, MD rō) < *krouh₂-o- are comparatively slight, since the *-w- of this word can readily be attributed to the influence of the parallel stem *hrēwa- (cf. Dutch rauw, MHG rā, Finn. (loanword) rieva (with -ie- < *-ē-) < *krēuh₂-o-¹²). It is likely that sequences of the type *-ĀUHA- developed directly to *-ĀWA-, rather than *-ĀU'A- in Germanic; in descriptive terms, Verschärfung after long vowels is simply not encountered.

A more puzzling case is that of Go. sniwan 'hurry' beside OE snewan 'id.' (< *snewwan) and OI sneggr 'quick' (< *snawwu-). The extra-Germanic connections of this verb, however, are unclear in any event, and it is at least possible that the absence of Verschärfung in Gothic is due to the analogical influence of forms such as the pret. 1 pl. *snewum, the historically original participle *snuwana- (< $*snuh_1-ono-?$), and the related lexical item seen in OE snowan 'hurry' and OI snua 'wind, turn'¹³.

§7 Not all instances of Verschärfung reflect earlier sequences of the type *-AUHA-. In two well-known forms Gmc. *-jj- appears to have developed from an original sequence *-ij-, in which the first element became non-syllabic following the loss of a preceding laryngeal. In schematic terms we may represent this development as *-A(U)HUWA- > *-AUWA- > *-AWWA-; the words in question are the following:

Crim. Go. ada, OI egg, OHG ei (gen. pl. eiiero) 'egg' (< *ajja-): Although the Indo-European shape of this word remains problematic, the Germanic forms are probably best referred to a stem $*(h_x)\bar{o}h_xijo-$ (perhaps, as SCHINDLER points out to me, the replacement of an earlier $*(h_x)\bar{o}h_xujo-$; cf. also Serbo-Croatian jaje, OCS (j)ajbce). Pre-Gmc. $*(h_x)\bar{o}h_xijo$ would initially have yielded $*\bar{o}ijo-$, whence, with Osthoff's Law, *aija- > *ajja-.

Go. daddjan, OSw. dæggia 'suckle' (< *dajjan): the unextended root *dheh₁- is found in Ved. adhāt (AV) 'sucked'. The corresponding present dhayati, -te is probably best taken as reflecting a metathesized full-grade *dheih₁-, itself built to a zero-grade *dhih₁- < *dhh₁-i- with an enlargement *-i-(cf. ptcp. dhīta-, OIr. denaid 'suckles' < *dhi-n-h₁-, perhaps also OSw. dīa 'suck')¹⁴. Germanic and Slavic have taken the metathesized full-grade as the point of departure for the creation of an iterative-causative *dhoih₁-eie/o-. In Slavic this regularly yielded dojq, dojiši 'suckle'; in Germanic the phonetic development was presumably *dhoih₁-eie/o- > *dai'ija-> *daijijan whence, with regular loss of *-j- before --i-, *daijan > *dajjan¹⁵.

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The Germanic groups *-ijj- and *-uww- call for special §8 discussion. The sequence *-uww-, in the clearest cases, is attributable to the analogical influence of related fullgrade forms in which Verschärfung can in principle be explained as in §5: representative examples are OI ptcp. brugginn 'brewed', wk. vb. brugga 'brew' (cf. OE breowan); OI ptcp. hnugginn 'humbled' (cf. pres. hnøggva); Norw. dial. snugga 'snort' (cf. MHG snouwen); Sw. rugg 'shaggy hair' (cf. OI rogg(r) 'long course wool'); OI glugga 'choose carefully' (cf. glqggr 'sharp-minded', Go. glaggwuba 'carefully'). The *-ww- of Go. skuggwa 'mirror', OI skuggi 'shadow' (cf. skugg--sjá 'mirror'), OHG scū, scuwo 'shadow' (cf. scū-c(h)ar 'mirror') is probably due to the influence of *skawwon 'look' (= OHG scouwon), whether or not the latter word and *skuwwanare etymologically connected (see FEIST, Vergl. Wb. d. got. Spr. ³, 435)¹⁶⁾.

In one instance $*-u\omega\omega$ - appears to be the phonologically regular development of earlier *-uw-. This is the Germanic word for 'owl', reconstructable as *uwwalon- or *uwwilon- on the evidence of OI ugla, OE $\bar{u}le$ and OHG $\bar{u}wila$. The $*\bar{u}$ - of pre-Gmc. *ūwalon- (*ūwilon-) is almost certainly of onomatopoeic, rather than laryngeal origin; it is not improbable that at the same time that sequences of the type *-auw- were phonologically reinterpreted as containing a geminate *-ww-, the group $*-\bar{u}w$ - was phonologically reinterpreted as *-uww-. A similar explanation will account for Gmc. *-ijjin the divine name * $Frijj\bar{o}$ - (cf. OI Frigg, OE $Fr\bar{i}_3$) and the irregular preterite 3 pl. *ijjun 'went' which underlies Go. iddja, iddjedun. *Frijjo- is probably best taken with KURY-LOWICZ, op. cit. 449, from a ie/o-adjective *prih_x-ie/o-, the feminine of which would initially have yielded *frījoin Germanic; alternatively, it is possible to envisage a substantivized "gerundive" *preh, iieh, - 'die zu liebende'

(cf. Ved. déya- 'to be given', jáyya- 'to be conquered', etc.)¹⁷⁾ or a feminine thematic adjective *preih_xeh₂-, both of which would regularly have given *freijō- > *frījō- > *frijjō-. (Gmc. *frija- 'free' (= Go. freis) and *frijōn 'love' (= Go. frijon), of course, show the normal antevocalic treatment of the zero-grade *prih_x-.) According to COWGILL, Lg. 36. 483 ff. (1960), Go. iddja owes its Verschärfung to an original 3 pl. *ijjun < *ījun < *eiįnt, which replaced earlier *ei'nt under the influence of paradigmatically related forms.

§9 No theory of Verschärfung can account directly for the large number of Germanic words with *-ww- or *-jj- which either lack convincing etymologies or continue IE roots whose set or anit character is not known¹⁸. On the basis of the forms discussed in §§3-8, however, the following conclusions can safely be ventured. Gmc. *-ww-, where not analogical, is in every clear case attributable to an earlier non-geminate *-w- preceded by $*-\bar{u}-$ or a u-diphthong; *-jj- can similarly be traced to earlier *-j- preceded by $*-\bar{i}-$ or an *i*-diphthong. Typically, the diphthong in sequences of the latter type is original and the following glide is the replacement of a lost laryngeal (cf. $*hawwan < *hauwan<*kauh_2-e/o-, *wajju- < *waiju < *uoih_x-); occasionally, the glide is original and the pre$ ceding diphthong has arisen by contraction across a laryngeal $hiatus (cf. <math>*dajjan < *daijan < *dhoih_1-eie/o-)$.

Very little in this formulation is entirely new. We have followed LEHMANN in deriving *-ww- and *-jj- in the majority of instances from sequences of the form *-AUHA-. Our treatment differs from his in two main respects: by assuming that laryngeals were lost without *directly* causing gemination in Germanic we have been able to account for cases like *dajjan, *Frijioand *uwwalon- with no loss of generality; and by assuming that interconsonantal *-Hu- and *-Hi- were metathesized to *-uH- and

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*-*i*H- in late Indo-European we have been able to expand significantly the list of forms for which pre-Gmc. *-auH-, *-aiHand *-euH- can plausibly be reconstructed. The resulting theory is attractively simple, and, if correct, would provide an elegant solution to a hitherto recalcitrant problem.

Notes:

- A useful survey of the earlier literature on Verschärfung is given by F. van COETSEM, Leuvense Bijdragen 39, 41 ff. (1949).
- Representative are the doubts expressed by BEEKES, Orbis 21, 327 ff. (1972). Regrettably, BEEKES does not reveal which, if any, non-laryngeal solution he prefers.
- 3) In Anatolian there is fairly good evidence that sequences of the type *-VRHV- yielded -VRRV-; note, e.g., Hitt. \$unna- 'fill'< $\$u-n-h_x-$ and tarra- 'be capable' beside tarh- 'conquer'. For discussion see C. WATKINS, Flexion und Wortbildung, 376 ff.

Attempts to find consonantal reflexes of laryngeals outside Anatolian, of course, have been very numerous. A conspicuous instance is AUSTIN's doubtful view, set forth in the articles cited above, that IE *-Hu- yielded WGmc. *k in OE naca 'ship' and similar forms. More recently, R. LÜHR has argued (MSS 35, 73 ff. (1976)) that *-VRHVregularly gave Gmc. *-VRRV-. Although several of Miss LÜHR's analyses are attractive, her overall theory is badly compromised by counterexamples such as *malan 'grind' < *melh -, *anan 'breathe' < *h_2enh_1 - and *tamon 'subdue' < *demh_2 -, for which she can offer only ad hoc explanations.

- 4) The difficulty of determining the relative position of laryngeal and glide in individual lexical items has been stressed in several papers by E. POLOMÉ, e.g., *Mélanges* ... Mossé, 387 ff. and the privately circulated "Remarks on the Problem of the Germanic Verschärfung".
- 5) Or, of course, *bheuh, -ije-; the original form of the suffix cannot be determined.
- 6) It is true, of course, that this is not the way laryngeal hiatuses were resolved elsewhere: the present of $bh\bar{u}$ in Sanskrit is not *bhovati but bhovati. Since such hiatuses were created in post-IE times, however, there is no reason

why we should expect them to have been treated with complete uniformity in the daughter languages. As a somewhat parallel case, compare the ulterior history of sequences of the form *-VHV-, which coalesced with the inherited long vowels in Italic, Celtic and Armenian, but which remained disyllabic in Indo-Iranian and yielded "trimoric" long vowels in Germanic.

- 7) According to J. SCHINDLER (personal communication), metathesis only took place when a consonant preceded as well. But BEEKES' assertion, op. cit. 330, that metathesis was restricted to cases where the preceding consonant was a stop is directly refuted by Hitt. $\check{s}uhh(a)$ - 'pour' < $*sh_2u$ -(cf. note 11).
- 8) The full-grade of the Germanic verb, which matches that of OCS kovq 'I forge' < $*kauh_x$ -, is thus comparable to the full-grade of $\zeta \omega \omega$, although the latter form has not undergone metathesis. Elsewhere I shall attempt to show that the u-presents of Indo-European were characterized by an athematic 3 sg. in *-e rather than *-ti, and that their tendency to appear as thematic presents in the daughter languages simply reflects the fact that *-e was the 3 sg. thematic ending as well.
- 9) In principle, such doublets can be explained in a number of ways. The -u-of putus may have been extracted from the nasal present *pu-ne-h2-ti (= Ved. punati 'purifies'); the short vowel of ourdov was perhaps extended from the antevocalic allomorph *bhuu- < *bhuh2- or adopted by analogy to the zero-grade in *-u- of anit roots. In yet other cases, uncertainty between *-u- and *-u- (or *-i- and *-i-) is best accounted for by supposing an originally anit root to which a laryngeal enlargement was optionally added.
- 10) The intonation of Serbo-Croatian $\tilde{c}\tilde{u}j\bar{e}m$, $\tilde{c}\tilde{u}ti$ could as easily reflect a pre-Slavic present *keumi as an earlier *keuh_xmi or *keuh_x-je/o-.
- 11) More extended treatments of Verschärfung, of course, allege many further instances of the development *-AUHA- > *-AWWA-, but few of these will bear close scrutiny. Three additional examples are perhaps worthy of mention:

a) OI logg 'notch' (< $*laww\bar{o}$ -): a connection is possible with Ved. lunāti 'cuts off', presumably reflecting an IE root $*leuh_x$ -.

b) OI rqqg, rqqgr 'dense wool' (< *rawwo-, *rawwa-): the corresponding OI verb rýja 'tear out wool', along with Lit. ráuju, ráuti 'tear out' and OCS rvq, ryti 'id.' (cf. ryjq, rvati 'dig'), can most easily be derived from a set root $*reuh_{r}$ -; here may also belong Lat. $r\bar{u}ta$ in $r\bar{u}ta$ caesa 'things remaining on a plot of land after it has

been cleared'. The $-\ddot{u}$ - of Lat. \ddot{e} -, $d\ddot{i}$ - obr $\ddot{u}tus$ 'dug up' would then have to be explained separately (cf. note 9).

c) Icel. soggr 'damp'; cf. OHG sou, OE seaw 'sap, juice, moisture' (< *sawwa-): a connection is possible with Hitt. $\delta uhha$ - 'pour' and Gk. $\delta \epsilon \iota$ 'it rains' (cf. Toch. AB s u-'id.'). The latter forms point to a root *seuh₂- (*sauh₂-)/ *suh₂-, itself metathesized from earlier *seh₂-u-/*sh₂-u-(cf. the Hittite doublet $i\delta huwa$ - 'pour', pointed out to me by SCHINDLER, and probably also $\delta ehur$ 'urine' < *s eh_2 ur). From a semantic point of view, however, a derivation of the Germanic words from the anit root of Ved. sunoti, GAV. hunaoiti 'presses (soma)' would be equally acceptable.

- 12) I can see no reason to suppose that OS hreuwan and OI hryggva 'rue, be sorrowful' are derived from this root.
- 13) BEEKES too has seen that *hrawa- and (pre-Gothic) *snewan are embarrassing forms for a laryngeal theory of Verschärfung, but his assessment of their importance is in my view greatly exaggerated.
- 14) It will be argued elsewhere that parallel to the u-presents discussed above, Indo-European had a series of presents marked by an enlargement *-i-. These too, I shall claim, were characterized by an alternating full- and zero-grade root and by 3 sg. in *-e; the type is well-preserved in Hitt. 3 sg. dai 'puts' < *dhéh₁-i-ei, 3 pl. tiyanzi < *dhh₁-i-énti.
- 15) Strictly speaking, we must assume that the rule j + Ø / -i applied twice, once to produce *daiijan, which would have been realized phonetically as [dajijan], and a second time to produce *daijan. But it is at least as likely that *daijijan would have been simplified directly to *daijan.
- 16) So KURYLOWICZ, op. cit. 448. Both KURYLOWICZ and LINDEMAN have recognized the secondary character of Gmc. *-uww-.
- 17) This analysis would require us to discard the standard, though hardly compelling, comparison of the Germanic forms with Gk. πραύς 'gentle'; cf. BEEKES, op. cit., 330.
- 18) Representative of this group are Go. bliggwan 'strike' and its relatives, OS hreuuan, OI hryggva 'rue' (cf. note 12), and OE hwæ3 'whey'. The family of Go. triggws, OI tryggr and OHG gitriuwi 'true' is doubtless connected with Lith. drutas 'strong' and OPr. druwit 'believe', but the relationship between these forms and the Indo-European word for 'tree', which lacked a laryngeal, is very uncertain. If our findings are correct, the traditional equation of OI dqgg and OE dēaw 'dew' with the laryngealless root of Ved. dhāvate 'runs' must be abandoned.

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A Note on Hittite taka- 'steal'

The etymology of the Hittite mi-verb $t\bar{a}ia$ -, 3 sg. $t\bar{a}iezzi$ 'steal' is well-known: related lexical items outside Anatolian are Ved. $t\bar{a}y\dot{u}$ -, $st\bar{a}y\dot{u}$ -, Av. $t\bar{a}iiu$ - 'thief', OCS tajq 'I conceal', tatb 'thief' and Gk. $\tau\eta\tau\dot{\alpha}\mu\alpha\iota$ 'be in want (of)'. POKOR-NY refers these forms to a root $*(s)t\bar{a}i$ - 'heimlich um etwas bringen, hehlen, stehlen'; most modern scholars would dispense with the long diphthong and write simply $*(s)teh_{g}(i)$ -.

It has long been suspected that the final glide of roots in $*-eh_{(i)}$ originated in the present, whence it was subsequently extended to other forms. Favoring such an interpretation is the fact that roots of this structure often have full- or zero-grade presents in *-je/o- (cf. OSw. dfa, Latv. deju < *dheh,(i) - 'suck', Ved.syát(i) < *seh,(i) - or *sh,eh,(i)-'bind') beside unextended aorists (cf. Ved. adhāt, asāt): the present suffix here is presumably to be analyzed as *-i- followed by the thematic vowel. From a phonological point of view $t \tilde{a}_{i} a$ - could easily be explained as a formation of the same type, since $*h_2$ was regularly lost before $*-i_2$ in Hittite. A reconstruction $*(s)teh_{gke/o-}$, however, would be morphologically unsatisfactory. Hittite is unique in typically showing athematic presents to "long-diphthongal" roots: the cognate of Ved.syát(i) is 3 sg. išhāi, 3 pl. išhijanzi, while OCS spejq 'I succeed' (< $speh_1(i)$ -) is matched by 3 sg. išpāi, 3 pl. išpijanzi 'become sated'. I shall show elsewhere that this inflectional pattern is an archaism, and ultimately points to an IE type 3 sg. TEH-i-e, 3 pl. TH-i-i-enti (or $*TH-i-\hat{e}r)$. For the moment it is sufficient to note that the expected present of $*(s)teh_2(i)$ - in Hittite would have been not 3 sg. tājezzi, pl. tājanzi, but 5 sg. *tāi, pl. *tijarzi.