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Birgit Anette Olsen University of Copenhagen

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Birgit Anette Olsen, University of Copenhagen

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Armenian Textile Terminology

Birgit Anette Olsen

he part of the Armenian vocabulary that is inherited from the Indo-European protolanguage is notoriously limited, variously estimated to include between 450 and 700 stems. Otherwise, the lexicon is dominated by etymologically obscure elements and an impressive amount of Middle Iranian loanwords, reflecting the centuries of Iranian political dominance. In particular the Parthian loans, introduced during the Arsacid dynasty (247 BC-224 AD), have left their mark on the Classical Armenian language, attested from the early 5th century, to a similar extent as Old French on English or Low German on Danish, so that linguists until the late 19th century still considered Armenian an aberrant Iranian dialect rather than an independent branch of the Indo-European family. The other main sources of loanwords, Syriac and Greek, are intimately connected with the introduction of Christianity around 300 and hence mainly restricted to the specific word fields of religion and philosophy.1

Obviously, this state of affairs also affects the textile vocabulary where the impact of Iranian language and culture can hardly be overestimated.² Thus, it is quite natural that the Iranian superstrate dominates the lexicon pertaining to advanced textile production, clothing, fashion and ornaments, while on the other hand the core of inherited terms refers to basic products and techniques such as fleece and wool, spinning and weaving. The basis of the present lexical study is the classical language, mainly as attested in the oldest text, the Bible translation from around 410.³

The terminology of wool

Any discussion of Indo-European culture in general and the dating and geographical position of the Indo-European homeland in particular must include a reflection on the word for 'wool', since the occurrence of wool sheep and the technology of wool production is a significant cultural feature of all the ancient Indo-European civilizations. There can be no doubt that the protolanguage had a feminine noun with the precise meaning wool in the daughter languages and a protoform $*h_2ulh_1$ -nah_2 which is continued in most branches of the family: Vedic $\dot{u}rn\bar{a}$ -, Avestan $varən\bar{a}$ -, Latin $l\bar{a}na$, Welsh gwlan, Gothic wulla, Lithuanian

^{1.} According to Solta (1990, 13), 5572 of the words included in Ačaryan's etymological dictionary (1928-35) are registered as being of unknown origin, 4014 are loanwords, mainly Iranian, and only 713 are considered inherited.

^{2.} Cf. e.g. Hübschmann 1897, 91-259; Bolognesi 1960; Schmitt 1983; Olsen 1999, 857-920.

^{3.} The treatment by Olsen 1999 includes details concerning the inventory and historical analysis of nouns and adjectives.

vilna, Old Church Slavic vlъna. Other cognates are the Greek neuter s-stem $\lambda \tilde{\eta} vo\varsigma$ for expected feminine * $l\bar{e}n\acute{e}$ where the aberrant gender and inflectional type may have been triggered by the two other words for 'wool', ε $\tilde{l}\rho o\varsigma$ and $\pi \acute{o}\kappa o\varsigma$, and Hittite hulana-, also 'wool', whose exact protoform, * h_2ula_1 -nah_2 or * h_2ulh_1 - ηnah_2 may be debated. Irrespective of the details, the very existence of this stem in Hittite at least takes us back to the period before Anatolian, as the first branch, separated from the rest of the Indo-European family. However, one thing is the existence of a common word; another is its precise original meaning and derivational background.

As summed up by Anthony (2007, 59):

"Sheep with long woolly coats are genetic mutants bred for just that trait. If Proto-Indo-European contained words referring unequivocally to woven wool textiles, then those words have to have entered Proto-Indo-European after the date when wool sheep were developed. But if we are to use the wool vocabulary as a dating tool, we need to know both the exact meaning of the reconstructed roots and the date when wool sheep first appeared. As the dating of this mutation is perhaps around 4000-3500 BC., one would then assume that the separation of the Indo-European family took place as late as the 4th millennium".

This is a fair assumption, but taking on the role of the Devil's Advocate, one could object that even if every single Indo-European language had a concordant word for 'wool', the meaning in the protolanguage need not necessarily be 'wool' in our sense. Instead, it might e.g. have denoted the rough annual shedding of early domesticated sheep which could not be spun, but only used for the production of felt. In that case the semantic development to 'wool' would have taken place at a later stage, independently in the separate branches.

A scenario of this sort is not very likely, but we need exact linguistic evidence to definitely refute the faint possibility. If it can be proved that the meaning of the basic root of the word for 'wool', i.e. * h_2 uel h_1 -, was 'pluck, tear out', the semantics of * h_2 ul h_1 -na h_2 > Latin $l\bar{a}na$ etc. 'what is plucked (off)' only makes sense in connection with the fleece of wool sheep. Incidentally this does seem to be the case, as substantiated by Latin $vell\bar{o}$ 'to pluck (hairs, feathers etc.)' and vellus 'fleece'. ⁴ Thus, we can be fairly confident that our Indo-European ancestors, perhaps five or six thousand years ago, did in fact possess domesticated wool sheep, initially plucking rather than shearing their wool to use it for spinning and weaving.

The exact match of $l\bar{a}na$ etc. happens to be unattested in Armenian. What we do have, however, is a precious isolated archaism in the form of the primary men-stem gelmn 'fleece' (Olsen 1999, 504; Martirosyan 2010, 204) from which $*h_2ulh_1$ - $n\dot{a}h_2$ constitutes a secondary derivative: where $*h_2uelo_1$ - $m\eta > gelmn$ is the fleece, $*h_2ulh_1$ - $mn\dot{a}h_2 > *h_2ulh_1$ - $n\dot{a}h_2$ (> $l\bar{a}na$ etc.) is a substantivized feminine/collective 'that which pertains to the fleece', *i.e.* 'wool'.

In the meaning of 'wool' we find another inherited term, asr, cf. e.g. Psalms 147.16: $dn\bar{e}$ z-jiwn $orp\bar{e}s$ z-asr "he giveth snow like wool", or Rev.1.14: ew glux nora ew $herk^c$ ibrew z-asr spitak ew $orp\bar{e}s$ z-jiwn "and his head and hair was white like wool and like snow". Traditionally, asr is considered a contamination between * $po\hat{k}os$ as in Greek $\pi \acute{o}\kappa o\varsigma$ 'fleece', Old Norse $f\acute{e}r$ 'sheep' on the one hand, and the neuter u-stem * $p\acute{e}ku$ > Vedic $p\acute{a}\acute{s}u$, Avestan pasu, Latin $pec\bar{u}$, Gothic $fa\acute{i}hu$ 'livestock, cattle' and Modern English fee on the other. While the meaning 'fleece' matches that of $\pi \acute{o}\kappa o\varsigma$ (but not that of $f\acute{e}r$!), the u-stem inflection is more in accordance with Vedic $p\acute{a}\acute{s}u$ etc. The same inflection is more in accordance with Vedic $p\acute{a}\acute{s}u$ etc.

The root of at least $\pi \delta \kappa o \varsigma$ and its cognates has been identified with that of Greek $\pi \epsilon \kappa \omega$ '(pluck >) comb, card', 8 Lith. $pe \dot{s} \dot{u}$ 'pluck', so that $\pi \delta \kappa o \varsigma$, rarely also neut. s-stem $\pi \epsilon \kappa o \varsigma$ with regular e-grade, would be 'plucking' or 'that which is plucked', i.e. 'sheep's

- 4. For further discussion of the linguistic details, in particular the reconstruction of the basic root, cf. Olsen forthcoming.
- 5. Cf. also the sumerogram UDU-us 'sheep' in Hittite, where the phonetic complement indicates a u-stem.
- 6. Only attested in the later language, but secured by the adjectives asui and asueay 'woollen'.
- 7. Cf. Olsen 1999, 202 and Martirosyan 2010, 122-124 with references for a discussion of the phonological details (especially the origin of the initial *a*-).

wool, fleece', and we would have exactly the same semantic development as in *h,ulh,-nah,-'wool' from *h, uelh, - 'pluck'. An etymological identity between the roots of $\pi \dot{\epsilon} \kappa \omega$, $p \dot{\epsilon} \dot{k} \dot{u}$ 'pluck' and * $p \dot{\epsilon} \dot{k} \dot{u}$ 'livestock', on the other hand, is not quite certain. While it is traditionally assumed that $*p\acute{e}ku$ would have had a hypothetical basic meaning '(wool) sheep' or 'small cattle' with a secondary extension to 'livestock' in general, this development cannot be philologically verified, so that the connection is sometimes questioned, cf. e.g. Mallory & Adams (1997, 23). Still, the formal similarity and the apparent mutual semantic influence between * $p\acute{e}ku$ and (* $p\acute{e}ke/o-\Rightarrow$) * $p\acute{e}kos/$ pokos would seem to suggest an old connection, thus in particular the *u*-inflection of asr 'wool' and the perfect formal identity between the Greek s-stem $\pi \acute{\epsilon} \kappa o \varsigma$ 'fleece' and Latin pecus, -oris 'cattle, small cattle'.

Another derivative of the root *pek- possibly survives in the otherwise etymologically unclear ostayn (i-st.) 'web, textile' with the compound sardiostayn 'cobweb' (cf. sard 'spider'). At least a protoform *pok-ti-, already posited for Old Swedish fæt, Old English feht 'fleece', Old Frisian fecht 'wool, fleece', would probably yield Armenian ost- by regular sound change. As for the end segment -ayn, one may tentatively suggest a compound *pokti-tnti- or the like, derived from the root *ten- 'stretch; spin', cf. e.g. Vedic tanti- 'cord, line, string', tántu- 'thread, cord, string, line, wire, warp (of a web)', tántra- 'warp', Persian tan- 'spin, twist', so that the

original meaning would have been something like 'wool-web'.

Another potentially inherited term is the *o*-stem burd 'wool' with the denominative verb brdem 'shear, cut (wool)', which does not have a generally accepted etymology. However, in his monumental, but not so easily accessible dictionary, Ačaryan,11 with reference to Patrubány, 12 mentions a possible connection with Sanskrit bardhaka- 'cutting' and Latin forfex 'tongs, pincers; shears, scissors'. Semantically the suggestion is quite attractive. Like Latin *lāna* etc. on the one hand, Armenian asr and Greek $\pi \acute{o} \kappa o \varsigma$ on the other, we must assume that the verbal root * b^h er d^h - 'gather, harvest' → 'pluck (wool)' derives from a time when wool was plucked rather than shorn, and that the derivatives only later, in the individual branches and following the technological development, were lexicalized with the specific meaning of 'shearing'. 13 The root vocalism of burd which would at first sight appear to point to a lengthened o-grade $*b^h\bar{o}rd^ho$ -, is somewhat surprising; on the other hand, we have two apparent parallels in durgn 'potter's wheel'14 and burgn 'tower'. 15 The word burd is quite rare in classical literature beside the more usual asr.16 Another word for 'fleece (of wool)' is the Semitic loan *gzat*^c, Syriac $gezz \partial \theta \bar{a}$, which is only attested four times in the same passage of the Book of Judges, 6.37-40, as a translation of Greek $\pi \acute{o} \kappa o \varsigma$.

While Armenian may thus have preserved as many as three inherited words for 'fleece' and

- 8. Also, with secondary semantic transfer, 'shear', e.g. Theocr.28.13: $\pi \acute{o} κοι ζ \pi \acute{e} ζ ασθαι$ 'have their wool shorn'.
- 9. Cf. dustr 'daughter' < * $d^hug\partial_2 t\acute{e}r$ with loss of the laryngeal * ∂_2 , regular palatalization * $g > *\hat{g}$ after u and voicing assimilation * $\hat{g}t > *\hat{k}t > st$. The numeral ut^c 'eight' most likely goes back to * $opt\bar{o}$ as a substitution for * $o\hat{k}t\bar{o}$ after *septm (> $ewt^c n$) 'seven' (cf. Martirosyan 2010, 631).
- 10. Regular loss of *-i- in unaccented syllable, *-nt- > -an- and i-epenthesis *-ani- > -ayn.
- 11. Ačaryan, 1971: 488-489.
- 12. Patrubány, 1902: 59.
- 13. Cf. Flemestad & Olsen, this volume, for further details and references.
- 14. Root * $d^h er \hat{g}^h$ 'turn'.
- 15. Root *b^erg^h_- '(be) high'. A lengthened o-grade is rather a morphological monstrosity except in vrddhi formations, and apart from this peculiarity, the root-final -g- of both burgn and durgn is at variance with the regular development of the palatal *-g^h_- > -j- in the clearly inherited barjr 'high' < *b^h_rg^h_u- and aor. darjay 'turned' < *d^h_rg^h_- from the very same roots. On this background it seems possible, as suggested in Olsen 1999, 951, that we are dealing with loans from another Indo-European language with different sound laws where -ur- might represent either a zero grade *-r- or an o-grade *-or-. Now burd might be added to the evidence, and at least it is noteworthy that from a semantic point of view burgn, durgn and burd are all likely candidates for cultural loans/Wanderwörter.
- 16. Cf., however, Hebr. 9.19: brdov karmrov, Greek ἐρίου κόκκινου, 'scarlet wool' and the adjective brdeay 'woollen' (Łazar P^carpec^ci, 5th century).

'wool', gelmn, asr and perhaps burd, the origin of the common term for 'flax, linen', ktaw (o-st.), is unknown, and its rare synonym xcuc in Judg.15.14 seems to have a Caucasian source.¹⁷ The Wanderwort behez/behēz 'fine linen', ¹⁸ as also Greek βύσσος which is transmitted through Semitic, ultimately goes back to Egyptian, ¹⁹ but the immediate source is unknown; ²⁰ another pedigree of the same stem is vuš 'fibre of flax'. ²¹ Xorg (o-st.) 'sackcloth' is either transmitted through Syriac xurgā or borrowed directly from Middle Iranian *xwarg-. Finally, stew 'camel's hair' is traditionally compared with Vedic stúkā- 'knot or tuft of hair or wool' and stupá- 'knot, tuft of hair' though the exact protoform is open for discussion. ²²

Terminology of spinning and weaving

Most of the verbs pertaining to basic textile technology of spinning and weaving are more or less direct continuations of inherited stems though the lexicalized meaning has sometimes undergone changes in the course of time. While the common Indo-European root for 'weave', * μeb^h -, known from e.g. Greek $\dot{\nu}\varphi\alpha\dot{\nu}\omega$ and German weben,²³ has left no apparent traces, the usual Armenian verb is ankanem. Synchronically this looks like the active counterpart of ankanim, aor. ankaw, 'fall down, come down, hang down' from the root * $seng^w$ - as in Gothic sigquan 'sink, go down', English sink, and the causative sagqjan 'lower, let down' which would also be the expected meaning of ankanem. If we are indeed dealing

with the same root from a historical point of view, the peculiar semantic development may perhaps be seen in connection with weaving on vertical looms where the warp is held down by the loom-weights, cf. also ankuac 'weaving, texture' with the literal meaning 'what has been made fall, go down'. ²⁴ A compound with the same stem is found in the designation of the 'weaver', ostaynank, lit. 'who makes the web come down', i.e. 'web-weaver', cf. e.g. 1.Chron.11.23: nizak ibrew z-stori ostaynankacc' "a spear like a weaver's beam", whence also the derivative ostaynankutciwn 'weaver's work'.

A root from the terminology of spinning is Indo-European *(s)penh₁-,²⁵ with or without the "mobile s-" in Gothic spinnan 'spin', Lithuanian pinù 'plait', Old Church Slavic pьno 'stretch' and, with secondary metaphorical meaning, Greek πένομαι and πονέομαι 'exert oneself, make an effort'. An Armenian continuation of this verb is allegedly found in henum 'weave, sew together' with the variant hanum where the vocalism is assumed to be analogically extended from the original aorist stem. However, it is remarkable that henum and hanum hardly occur in classical literature, losing ground to niwtcem in the basic meaning of 'spinning' from the earliest records, but still sporadically attested in later sources. The spinning is spinning to the spinning of 'spinning' from the earliest records, but still sporadically attested in later sources.

The commonly used verb for 'spin' is the denominative *niwt^cem*, derived from the generic term *niwt^c* 'stuff, material' which is mainly used about textiles, e.g. Ex.39.27: *i niwt^coy behezoy* "of linen material". Beside its literal meaning 'spin', e.g. Matth.6.28 = Luke 12.27: $o\check{c}^c$ janay ew $o\check{c}^c$ niwt^c \bar{e} "they toil not,

- 17. Ačaryan II, 375.
- 18. O-st.; -h- apparently hiatus breaker.
- 19. Cf. Spiegelberg 1907, 128-29.
- 20. Ačaryan I, 437-438.
- 21. Ačaryan IV, 348.
- 22. IEW 1055; Mallory & Adams 1997, 139; Jahukyan 1987, 195; Olsen 1999, 425.
- 23. LIV 658.
- 24. The imaginary may also work with cobwebs where the spider falls down with the first thread of the web, cf. *e.g.* Is. 59.5: *z-ostayn sardic*^c ankanen, Greek ἰστὸν ἀράχνης ὑφαίνουσιν, "they weave the spider's web".
- 25. LIV 578-579.
- 26. Klingenschmitt 1982, 235.
- 27. In their reverse dictionary of Classical Armenian, covering all of the most important early sources, Jungmann and Weitenberg (1993) do not register a single occurrence of *henum* or *hanum*, and just one attestation of the variant *hinum* from the comparatively late writer Movsēs Xorenacci (9th century).

neither do they spin", the verb niwteem is frequently used metaphorically in the sense of 'spinning a yarn, telling a tall story, scheming', cf. e.g. Ps.49.19: Beran k^co yačaxer z-č^carut^ciwn, ew lezu k^co niwt^cer nenguteiwn "Thou givest thy mouth to evil, and thy tongue frameth deceit", or Prov.3.29: Mi niwteer barekami keum čearis "Devise not evil against thy neighbour". If the basic root is *sneh₁(i)- 'spin', ²⁸ as continued in e.g. Latin $ne\bar{o}$, Greek $v\tilde{\eta}$ 'spins', Old Irish *niid* 'twists, binds' and Old High German *nāen* 'sow', the underlying noun may be analysed as either a tu-stem *sneh_-tu-29 as opposed to the *-tistem of Greek νῆσις 'spinning', Old High German nāt 'seam' or a "proterodynamic" *-ti-stem *sneh, $t\bar{o}i$, in both cases with u-epenthesis and analogical o-stem inflection.

Another verb which is usually treated in the same context is t^cek^cem , traditionally translated 'twist' or the like in historical-comparative literature³⁰ and interpreted as a primary thematic verb from *tek- 'twist, weave', 31 otherwise attested with an apparent s-extension, e.g. Latin texō 'weave, plait'. However, as registered in the normative dictionaries and affirmed by the textual evidence, 32 the original meaning of the Armenian verb is not 'twist', but rather 'forge', in particular 'whet', metaphorically also 'educate', and even the later meaning 'incline, tilt, bow, bend' is quite general and not specifically used in contexts where textiles are involved. This is primarily a technical term

used about the smith rather than the textile worker.³³

We now have to consider the meaning of the root(s) *tek- and/or * $te\hat{k}$ - and its/their potential relation to textile terminology, including the extended or reduplicated forms "*teks-/* $te\hat{k}s$ -" and "*te- $t\hat{k}$ -" > " $te\hat{k}b$ -". Pokorny³⁴ registers the homonymous roots *tek- "zeugen, gebären" and *tek- "weben, flechten", while LIV³⁵ reconstructs the former with a root-final velar *tek-, the latter with a palatal *te \hat{k} -. Now, if the Armenian verb *t^cek^cem* is excluded for semantic reasons, there is no specific reason to reconstruct a velar rather than a palatal.³⁶ Thus it is sufficient to posit a single root * $te\hat{k}$ - 'make, produce', perhaps continued in its simple form in Greek τέκνον 'child' with the reduplicated present $\tau i \kappa \tau \omega$ 'beget, produce'. 37 An apparent s-extension is found in Hittite takkešzi, 3.pl. takšanzi 'fit together, unite', 38 Latin texō 'weave, plait; join, fix together, build' and Middle High German dehsen 'break flax', and finally an old reduplicated stem *te $t\hat{k}$ > * $te\hat{k}b$ - is traditionally seen in Vedic $t\bar{a}sti$ 'builds, fashions, makes', Avestan tāšt 'made', Old Church Slavic tesati, Lithuanian tašýti 'hew'. This stem also appears to be the base of the noun continued in Vedic táksan-, Greek τέκτων 'carpenter' (Mycenaean te-koko-nº) and Avestan tašan- 'creator', famously featuring in the poetic language of Indo-Iranian and Greek where 'carpenter of words' is used as a kenning for the poet.³⁹ However, the precise formal distinction between *teks- and *tetk- is somewhat unclear, and

- 28. LIV 571-572.
- 29. Klingenschmitt 1982, 180.
- 30. Solta 1960, 378: "drehen, flechten, erzeugen"; IEW 1068: "drehe, flechte, wickle", repeated in LIV 619.
- 31. LIV l.c.
- 32. E.g. 1.Sam.13.20; Is.44.12.
- 33. Ačaryan II, 178: *kranelov kokel, šinel, srel* "by hammering to smoothe, fashion, whet"; Nor bargirk I, 810: "Χαλκεύω, Fabrico, tundo, cudo. θήγω, acuo, ew [and] παιδεύω, erudio". Ciakciak (I, 578) agrees on the primary meanings 'aguzzarie, affilare, arrotare, appuntare', 'esercitare, istruire, informare', including the metaphorical use of *tekel lezu* 'Rinforzar le parole; rinvigorire il discorso', and finally adding 'piegare, torcere, flettere' [fold, twist, bend] which is the meaning that survives into the modern language. The suggestion of an etymological connection between *tekem* and Lat. *texō* etc. seems to go back to Meillet (1894, 289) who, in accordance with the earliest documentation, translates "'fabriquer' et en particulier 'aiguiser'".
- 34. IEW 1057-1058.
- 35. LIV 618-619.
- 36. The Ossetic verb *taxun*, mentioned in IEW with the translation 'weben', rather means 'equip, dress up' and thus does not belong here (Cheung 2007, 374).
- 37. Cf. Beekes 2010, 1484.
- 38. For the exact meaning of the Hittite verb, cf. Melchert, forthcoming.
- 39. Cf. Schmitt 1967, 297.

it is even possible that Greek $\tau \dot{\epsilon} \kappa \tau \omega v$ is rebuilt from * $te\hat{k}s\bar{o}n$ on the model of the agent noun * $te\hat{k}s$ -tor- = Latin textor 'weaver'. At any rate there seems to be a lexical connection between simply 'fitting together', as in the Hittite verb, and the two more specialized craftsman's terms 'building' or 'doing carpentry' on the one hand, 'weaving' on the other. Presumably, the connecting link is the use of wattling in the construction of houses. In the construction of houses.

This brings us to the curious formal identity of the roots of Armenian hiws 'plait (of hair)', hiwsel 'to plait' and hiwsn (pl. hiwsunk $^c < *$ -ones) 'carpenter' where it is tempting, but formally problematic to venture an equation with $t\acute{a}ksan$ - and $\tau\acute{\epsilon}\kappa\tau\omega\nu$. The equation was already assumed by Ačaryan, 42 and later elaborated by Winter⁴³ who, apart from dealing with the doubtful internal cluster, had to postulate a dialectal development *t->h- rather than the regular t^c -. Klingenschmitt's alternative derivation from a reduplicated *pi- $p\hat{k}$ - from the root * $pe\hat{k}$ - 'pluck; comb'⁴⁴ is phonologically impeccable, but morphologically ad hoc. Moreover, the semantic development is far from obvious, as is also the case of the alternative derivation from *peuk. Perhaps the most promising suggestion is Martirosyan's tentative comparison with Lithuanian sùkti 'turn', Old Russian sъkati 'twist, twine', Russian sukat' 'twist, spin'45 which is at least semantically satisfactory for hiws, hiwsel, while the stem formation of hiwsn may have been influenced by the

pre-Armenian match of tákṣan-, τέκτων. 46

The inherited textile vocabulary includes not only the word for the 'web' as such, but apparently also the more specialized terms for 'warp' and 'woof'. The word for the 'warp' is either $a\dot{r}e\dot{j}$, lit. 'that which goes down'⁴⁷ or azbn, while the 'woof' is t^cezan , cf. e.g. Levt.13.52: Ew $ayresc^c\bar{e}$ z-jorjn $et^c\bar{e}$ $a\dot{r}e\dot{j}$ $ic^c\bar{e}$ $et^c\bar{e}$ t^cezan y-asveac $extit{kameac}$ "And he shall burn that garment, whether the warp $(\sigma t\dot{\eta}\mu ov\alpha)$ or woof $(\kappa\rho\dot{o}\kappa\eta v)$, in woollen or in linen".

In Armenian historical linguistics it is all too often the case that a proposed etymology depends on a sound law that is founded on one or two stray examples, as is also the case of azbn. Two nouns in Classical Armenian end in -zbn, skizbn 'beginning' and azbn 'warp, chain in weaving' (cf. Olsen 1999, 369-370). While an indigenous suffix -mn/-man is well attested, we have no comparative evidence whatsoever for a similar suffix with *- b^h - (> -b-) instead of *-m-. Consequently, skizbnand azbn either belong to some undefined substratum in which case we can stop worrying about them from an Indo-European comparative point of view, or they are inherited after all if -bn for -mn is due to some sophisticated conditioned sound law. Already in the early 19th century, Holger Pedersen⁴⁸ suggested a regular development -zmn- to -zbn- to account for these words, and since both of the basic roots stand a good chance of being inherited, it does seem sensible to look for a historical explanation for the suffixal elements as well.⁴⁹

- 41. Mallory & Adams 1997, 139.
- 42. Ačaryan III, 201.
- 43. Winter 1962, 262 and 1983.
- 44. Klingenschmitt 1982, 133-134 and 217.
- 45. Martirosyan 2010, 410-412. Root *seuk-; *-k- regularly palatalized after *-u-.

- 47. Cf. Greek $\sigma \tau \dot{\eta} \mu \omega v$ 'that which stands up'.
- 48. Pedersen 1905, 217.

^{40.} In that case *tetk- might be dispensed with since Vedic takṣan-, Avestan tašan- etc. are ambiguous. Cf. Mayrhofer p. 156 in Cowgill & Mayrhofer 1986, and EWAia I, 612-614, and see also the thorough discussion in Lipp 2009, II, 217-235.

Between *azbn* and Greek ἄσμα 'warp' (usually δίασμα) there exists a both very precise and very specific semantic correspondence, which can hardly be accidental. Thus Judg.16.13: Et^cē ankc^ces z-ewt^canasin gitaks glxoy imoy ənd azbin translates Greek Έὰν ὑφάνης τὰς έπτὰ σειρὰς τῆς κεφαλῆς μου μετὰ τοῦ διάσματος "Ιf thou weavest the seven locks of my head with the web". The corresponding Greek verb ἄττομαι < *ἄτ-jo-μαι'set the warp in the loom', i.e. 'start the web', has been convincingly connected with Hittite hatt- 'pierce, prick' by van Beek (apud Beekes 2010, 167).50 From a formal point of view the Greek form is an exact match of the Hittite *i*-present ha-az-zi-zi, to be read /ht s étsi/ $< *h_2t$ ié-ti,51 but the semantic specialization pertaining to textile terminology must have taken place at a time after the separation of the Anatolian branch from the Indo-European family, i.e. not earlier than "Core Indo-European" and perhaps as late as the predecessor of the Greek-Armenian(-Albanian-Phrygian) subbranch.

Tezan 'woof' has no generally accepted etymology. A connection with the root " $(s)teg^h$ - 'stechen'", as in Old Icelandic stinga 'sting, stitch, stab', Old Church Slavic o-stegnoti 'tie, knot, chain', Russian stegat' 'quilt' has been rejected because the Slavic forms would point to a velar * $-g^h$ -, while Armenian -z- must represent the lenition product of an intervocalic palatal * $-\hat{g}^h$ -. However, the semantic correspondence is remarkable, cf. also Shetland sting 'sew, stich together', Danish sting 'a stitch', and the formal problem would be solved by a Slavic borrowing from Germanic.

Even the word for the beam of a loom, stori, may

be based on an inherited lexeme, *storh₁io-, from the same root as Middle High German star 'stiff' and in particular Old High German storro 'wooden block'.⁵³

Textile terms based on inherited roots further include k^cul 'thread', reconstructed by Jahukyan as * $k\bar{o}lo$ - and compared with Latin colus 'distaff'. ⁵⁴ The reconstruction may be adjusted to * $k^w\bar{o}lh_lo$ - from * k^welh_l - 'turn' as a vrddhi derivative 'pertaining to the spindle' (?), ⁵⁵ but there may be other possibilities such as a zero-grade formation * k^wlh_lo - with rounding of the sonant after labiovelars. The semantically related aslani 'thread, ribbon' is internally derived from aseln 'needle', based on the root * h_lak - '(be) sharp' and belonging to the same subset as aleln 'bow' and t^cit^celn 'blade'. The derivational details are not quite clear, but at least we seem to be dealing with a close cognate of Old High German ahil 'awn', Middle English eile 'awn, prickle'. ⁵⁶

Terminology of garments

The inventory of inherited words for garments is quite scarce. The generic term z-gest (u-st.) 'garment, clothing' is a compositional tu-stem, including the prefix z- which, at least functionally, corresponds to Ved. abhi- $<*h_2mb^hi$ - 57 and the tu-stem *-gest- $_uestu$ - as opposed to the Latin ti-stem vestis. 58 A similar formation is z-ard 'ornament, finery', also an original tu-stem *- h_2ar -tu- or *- h_2r -tu-; however, the cognates, Vedic rtu- 'the right time; rule, order', Hes. aptis $\sigma \dot{v} v \tau \alpha \dot{\xi} i \varsigma$, Latin artus 'limb' are not associated

- 49. Cf. Klingenschmitt (1982, 224) for a discussion of *skizbn* and the related verb *sksanim* 'begin'. The origin of the crucial cluster is not exactly identical in the two cases: (*-knn? >) *-smn >*-zmn in skizbn, *-tmn >*-zmn in azbn.
- 50. Van Beek apud Beekes 2010, 167.
- 51. Cf. Kloekhorst 2008, 331. The verb is also continued in Lycian xttadi/xttaiti 'wounds' (LIV 274 with references).
- 52. LIV 687. Cf. also Olsen 1999, 300, and Martirosyan 2010, 283 with reference to Saradževa 1986.
- 53. Ačaryan IV, 278. Cf. also Martirosyan 2010, 300 for a thorough discussion of the enigmatic il, ilik 'distaff', spindle'.
- 54. Jahukyan 1987, 83.
- 55. Olsen 1999, 195-196.
- 56. The Germanic protoform is usually reconstructed as *ahila-/*agila-, but instead we might be dealing with an instrument noun *h₂aketlo- of the type Old Norse lykill 'key' < *luk-ila-z < *-etlo- 'instrument for closing' according to Rasmussen's analysis (1999, 651-651). The exact phonetic basis of the Armenian derivative is somewhat uncertain.
- 57. Cf. also the verb *z-genum* 'dress': Vedic *abhi-vas-* 'dress'. The stem formation of the corresponding Greek verb ἔννυμι < *μes-nuis identical with the Armenian (LIV 693 and Klingenschmitt 1982, 248). On the etymological relationship between *z-* and *abhi*etc., cf. Manaster Ramer ms. apud Olsen 2002.
- 58. The *u*-stem inflection may well be an archaism since *tu* rather than *ti*-stems in Vedic are habitually found after prefixes, cf. Wackernagel-Debrunner 1954, 651.

with clothing.59

More specific terms include awjik 'collar', presumably a derivative of a stem *(h)angwhi- or *(h)ngwhi-, related to Greek αὐχήν, Aeolic ἄμφην 'neck',60 and perhaps p^cełk 'rough mantle' (also 'curtain') which has been connected with Greek $\pi \hat{\epsilon} \lambda \alpha \zeta$, Lat. pellis 'skin' and the semantic close match of Old Prussian pelkis 'mantle', allegedly from the same root as Gothic *filhan* 'envelop' → 'bury, conceal'. 61 The root final *-k/g- (*-g- > Arm. -k-) may be dealt with as an indication of "laryngeal hardening" which would point to an original root noun *pelh-s, whence the Gothic denominative verb.⁶²Another indigenous term for a garment may be ter 'thin veil (for covering the head)' if Ačaryan's derivation from the root *der-'skin' is correct.⁶³ In that case we would be dealing with a narrowing of an older meaning 'hide, covering' and have an exact match in Greek $\delta \hat{\epsilon} \rho \rho i \varsigma$ 'hide, skin', but also 'screen (used in a siege)' < *dersi-.64 A 'cover' or 'garment' may also be described as a verarku, lit. 'thrown over', a loan translation from Greek περιβολαίον.65 Finally, a few words for ornaments are based on inherited roots: the a-stem gind 'earring' from the root *uendh- 'turn, twist, weave' as in Gothic windan etc., and matani 'ring', internally derived from matn 'finger' with cognates in Old Welsh maut, Middle Breton meut 'thumb'.

Otherwise, the general picture is dominated by Iranian loanwords, thus the generic terms *patmowčan* 'garment', Pahlavi *ptmwcn'*, and *handerj* 'clothes, clothing' from an Iranian protoform **han-dard*^z*i-*, cf. Pahlavi *drc* 'seam'. 66 The underlying Iranian root *darz-*, also reflected in Middle Parthian *drz-* 'tie on,

load (pack-animals)', 67 is probably Indo-European * $d^her\hat{g}^h$ - 'turn' with a semantic development to 'twist, spin' as also in Albanian dreth 'turn; spin'. 68 The inherited Armenian verb $da\dot{r}nam$, aor. $darjay < *d^hr\hat{g}^h$ -has preserved the original meaning 'turn', but one may consider if the otherwise etymologically unclear jorj (o-st.) 'garment, coat, cloth, veil', pl. 'clothes' could not be an inherited $b^h\dot{o}ros$ -derivative * $d^h\dot{o}r\hat{g}^hos$ with distant assimilation *dorj > jorj, i.e. [dord^z] > [d^zord^z]. If so, the joint evidence of Iranian, Armenian and Albanian would point to an extension of meaning 'turn' \rightarrow 'spin' as common heritage.

The number of nouns of Iranian origin for specific garments and other specialized texiles is quite impressive, thus:

- šapik 'shirt', cf. Middle Parthian špyk' 'undershirt', originally 'nightshirt', a substantivized derivative of the word for 'night', Avestan xšap-, Vedic kşáp-.
- *varšamak* 'napkin, apron', cf. Sogdian *w'ša'my*, Chwarezmian *w'š'myk* 'veil for the head'.⁶⁹
- t^caškinak 'handkerchief, sudarium', corresponding to Pahlavi tšknk' 'undershirt', from an Iranian protoform *taršikainaka- or the like, cf. Avestan taršu- 'dry' with t-> t^c- as in e.g. t^cag 'crown' < Iranian tāg-.
- vtavak 'shift, shirt, robe', used about the ephod or priestly robe, possibly a derivative of the stem continued in Pahlavi wyt'b- [witāβ] 'shine' in which case the original meaning would be a shining or simply white garment.
- lenjak 'towel' via an intermediary Iranian source ultimately from Latin linteum 'anything made of

- 61. Feist 1939, 151.
- 62. Olsen 1999, 93-94.
- 63. HAB IV, 442; cf. also Martirosyan 2010, 610.

- 65. Olsen 1999, 542.
- 66. From the same root also Armenian derjak 'tailor', Pahlavi dlcyk'.
- 67. Boyce 1977, 26.
- 68. IEW 258.
- 69. Cf. Benveniste 1958, 70 and Périkhanian 1968, 25.

^{59.} Cf., again with the prefix * h_2mb^hi -, Avestan $ai\beta i$ - + ar- 'figere' (Olsen 1999, 107-108).

^{60.} Cf. also Clackson 1994, 107-109 with discussion.

^{64.} There is no particular reason why δέρρις would go back to a *-ti-stem *der-ti- (which would have yielded Armenian *terd) as assumed by Clackson (1994, 54). Cf. de Lamberterie 1997, 74-76 for a common Greco-Armenian formation and Praust 2000 for further discussion of the root.

- linen, towel etc.'.70
- vižakk^c 'covering', used in the Exodus about the Ark of the Covenant, has been compared with Khotanese pvīys- 'cover' < *pati-vaiz- by Bailey.⁷¹
- gawti 'girdle, belt', perhaps < Iranian * $ga\beta tia$ -from * g^hab^h 'hold'; 72 cf. also paregawt below.
- kamar 'girdle', cf. Avestan kamāra-, Pahlavi kml 'waist; belt, girdle'.
- *zankapan* 'stocking' or the like, cf. Pahlavi *zng* 'ankle, shank' + the Iranian stem *-pāna-* 'protecting, protector'. A similar formation is the semicalque *srnapank*^c 'greaves' whose first member is the inherited *srownk*^c 'shank' (cf. Latin *crūs* etc.), similar to Gathic Avestan +*rānapānō* "qui protège la jambe, la jambière". ⁷³
- grapan 'seam at the neck' (lit. 'neck-protector'), cf. Modern Persian girīban 'neck-guard, gorget', a formation parallel to zankapan. For the initial member of the compound, cf. Pahlavi glyw' 'neck, throat', Avestan grīuuā-.
- paregawt 'tunic, coat', like Greek παραγαύδης, παραγαύδιον 'garment with a purple border' of Iranian origin, cf. gawti.
- *vartik*^c 'breeches' with the compound *andravartik*^c, presumably from a stem **vartia* based on the root *var* 'cover'; this Iranian loan is matched by Arabic *andarvart*, *andarvardiyya*.⁷⁴
- patrowak 'veil, covering', almost certainly of Iranian origin though the exact source is unknown.
- *drawšak* 'hem, corner (of clothes)', a derivative of *drawš* 'banner', Pahlavi *dlwš* 'mark' etc.
- 70. Jahukyan 1987, 631-631.
- 71. Bailey 1979, 258.
- 72. Olsen 1999, 874 and for the root IEW 407-408.
- 73. Kellens 1974, 330-332.
- 74. Jahukyan 1987, 547.
- 75. Cf. Benveniste 1964, 6.
- 76. Hübschmann 1897, 258; Ačaryan IV, 595-596.
- 77. 2.Tim.4.13.
- 78. Dan.12.6-7.
- 79. Josh.7.21; Syriac āmellā.
- 80. Syriac *xil'ā; Ačaryan II, 372.
- 81. Hübschmann 1897, 317.
- 82. Ačaryan IV, 585-586.
- 83. Ačaryan I, 400.

- *žapawēn* 'hem, border of a garment, undoubtedly Iranian, cf. *apawēn* 'refuge, protection'.⁷⁵
- *kawšik* 'shoe', corresponding to Pahlavi *kpš*, *kpšk* 'id.'.
- *k^curj* 'sack, garment of sackcloth', a *Wanderwort* borrowed from Iranian into Armenian as well as Arabic *kurz*.⁷⁶

On the other hand, the Greek contributions to the old Armenian textile vocabulary are relatively modest: lōdik 'cloak' from Greek λώδιζ, λωδίκιον; k^clamid 'robe, cloak' from $\gamma \lambda \alpha \mu \dot{\nu} \varsigma$, $-\dot{\nu} \delta o \varsigma$; and p^cilon 'cloak'⁷⁷ from φελόνης, φαιλόνης. Not only Greek itself, but also the Hebrew elements in the Septuaginta has left sporadic traces in the Armenian Bible, e.g. badēn 'linen garment',78 a rendering of the Hebrew loanword in Greek $\beta\alpha\delta\delta i\nu$, apparently with secondary influence from the suffix $-\bar{e}n$ characteristic of adjectives of material. Similarly, the Syriac element is restricted to a few words: amlan 'gown';79 xlay 'coat';80 and possibly *xanjarowr* 'swaddling band', pl. 'swaddling clothes'.81 The etymological background of k^cawl or k^coł 'veil', 82 and bačkon 'cloak', translating Greek *iμάτιον*, 83 is unclear.

As is natural, the Iranian military domination also affects the terminology of military outfit as seen from the following examples:

pateank^c 'armour' from Iranian *patayāna-,
 *patiyāna- or the like, containing the stem of the verb patem 'surround, enclose' (cf. e.g. also arcat^capat 'covered with silver') which probably reflects an Iranian version of the root

- *peth,- 'spread out embrace'.84
- varapanak '(military) cloak', lit. 'breast-protector', cf. Avestan varah- 'breast' and -pan- as in zankapan 'stocking', srnapank^c 'greaves'. The original source of zrahk^c 'armour'⁸⁵ with the reflex -h- of Iranian -δ-, cf. Avestan zrāδa- 'armour', is apparently neither Middle Parthian nor Middle Persian from which we expect -r- and -y-respectively, but rather a third branch of Middle Iranian, though the word may have been transmitted through one of the two main dialects.
- kštapanak 'armlet for the right arm' with the literal meaning 'side guardian', cf. kowšt (side) → 'belly', Pahlavi kwst' 'side, direction' (but Modern Persian kušt 'belly') and the same final element as in varapanak.
- *salawart* 'helmet' from a formation similar to Avestan *sārauuāra* 'helmet', ⁸⁶ lit. 'head-concealer' though the stem formation of the final member in the Armenian version is not an *a*-stem, as in Iranian, but either an extended root noun (Indo-European *-*ygr-t-*) or a -*ti*-stem (*-*ygr-ti-*).

Taratok' (soldier's) cloak' is etymologically obscure, cf. Martirosyan 2010, 602 with references.

Similarly, the vocabulary of ornaments, jewelry and royal attire is heavily influenced by Middle Iranian:

a prominent example is t^cag 'crown', cf. Manichaean Middle Persian t'g [tāg] 'arch' and the Modern Persian palatalized version tāj 'crown'. Bolognesi derived Arm. t^cag and Persian tāj independently from the same root as Greek στέφος

- <*(s)teg^{wh}- on account of the initial t^c which he considered incompatible with an Iranian loan. 87 However, there are other examples of such a development, e.g. t^cakoyk 'vessel, goblet' vs. Middle Persian tkwk' 'drinking vessel', and moreover, Benveniste's ingenious derivation of $t^cagowhi$ 'queen' from * $t\bar{a}ga$ - $b_r\theta y\bar{a}$ 'crown-bearer' (f) strongly suggests an Iranian origin of both compositional members. 88 The relation between $t\bar{a}g/t\bar{a}j$ and $\sigma t\bar{e}\varphi o \varsigma$ may still be maintained: $t\bar{a}g$ from a "tomós"-type * $tog^{wh}\acute{o}s$ and $t\bar{a}j$ a hybrid formation between $t\bar{a}g$ with Brugmannian lengthening and a competing s-stem * $teg^{wh}es$ -, like $\sigma t\bar{e}\varphi o \varsigma$, with e-grade and palatalization.
- psak 'crown, garland', cf. Pahlavi pwsg 'garland', Avestan pusā- 'tiara'.⁸⁹
- xoyr 'mitre, diadem, bonnet', cf. Avestan -xaoδa-'helmet'; hence also artaxowrag 'covering, tiara'.
- for the compound *mehewand* 'necklace', whose final member -awand clearly reflects Iranian *-banda- 'band', 90 Bailey suggested a first member *mṛju-, whence Avestan mərəzu- 'neck' or 'vertebra'; 91 this was later improved by Gippert to *mṛjuija-band- which would explain the connecting -e-. 92 However, the phonetic development *-ṛju->-h- has no recognized parallels, so as an alternative explanation Olsen has suggested a protoform *mi θ riya- β anda- from a stem related to (Iranian \rightarrow) Greek μ i τ p η 'headband' etc. 93
- aparanjan 'bracelet', cf. Modern Persian abranjan.
- *čelanak* 'sort of head ornament', probably 'hair pin', is a diminutive of the Middle Iranian word

^{84.} LIV 478-479; cf. further Avestan pa@ana-'wide, broad'. From the same root we also have patan 'bandage', diapatik 'embalmer', a compound with the probably inherited di 'dead body', and patand in the phrase arnowl i patand 'take hostage' (lit. 'into enclosure'). In view of the missing sound shift, the verb cannot be indigenous in Armenian.

^{85.} Bolognesi 1960, 42; Schmitt 1983, 84 and 90.

^{86.} Benveniste 1958, 69.

^{87.} Bolognesi 1948, 14.

^{88.} Benveniste 1945 [1946], 74.

^{89.} Cf. also the Tocharian A loanword pässäk (Isebaert 1980, 158 and 200).

^{90.} Cf. Middle Parthian bnd, Avestan banda-.

^{91.} Bailey 1989, 1-2.

^{92.} Gippert 1993, 140.

^{93.} Olsen 1999, 895. Cf. for the phonetics *mehean* 'temple' from Iranian **miθriyāna*- 'Mithra-sanctuary'.

- for 'dagger', Pahlavi cyl'n'.94
- sndus, translating Gk. τρίχαπτον 'fine veil of hair' in Ezek.16.10, cf. Modern Persian sundus 'species panni serici tenuis'.
- pačoyč and pačučank^c 'attire, toilette, ornament', cf. Meillet 1922.
- čamuk 'decoration, ornament', apparently also of Iranian origin though the details are unclear, cf. Ačaryan III, 180.
- *p^cološuk* 'hair-clasp' looks like a derivative of the etymologically unclear *p^cološ* 'moray', the clasp perhaps compared with the jaws of the fish.

The ultimate origin of *maneak* 'necklace', Greek $\mu \alpha v i \acute{\alpha} \kappa \eta \varsigma$, is also likely to be Iranian, while the background of $k^c a y \dot{r}$ 'necklace' is unknown.

Textile techniques, dyes and decorations

As we have seen, the words pertaining to basic textile production such as spinning and weaving mainly have an indigenous background, but when it comes to more advanced techniques and the production of luxuries, the Iranian influence has left its unmistakable mark. An interesting example is the agent noun nkarakert 'embroiderer'. 95 While the first member of this compound is clearly nkar 'picture; variegated, 96 the final stem differs semantically from other formations in -(a)kert < *-krta- '-made' with the expected passive meaning of the participle. This is what we find in the semi-calques jerakert 'hand-made', p^caytakert 'made of wood' or the complete loanword ašakert 'disciple', Manichaean Middle Persian hš'gyrd 'disciple, pupil', according to Benveniste's brilliant analysis a South West Iranian loan whose first member corresponds to Old Persian hašiya- (Avestan hai9iia-) 'true', so that the original meaning would be 'qui est rendu autentique, accompli'.97 The discrepancy of verbal voice in nkarakert is not readily explained, and for this reason it seems worth considering if we could not be dealing with a different root. An obvious candidate is Indo-Iranian *kart- 'spin; stretch a tread'. Incidentally such a root is attested in RV út krnatti, and from Iranian probably Chwarezmian kncy- 'twist'.98 In that case a *nkarakert* would simply be a 'picture-weaver' or 'picture-embroiderer' and thus be etymologically distinct from Pahlavi ng 'rgr (-kar) which would be a 'picture-maker', i.e. a painter. From the same semantic field and with the same first member we also find nkarakerp 'variegated, embroidered' where the final member is kerp 'form', cf. Manichaean Middle Persian qyrb 'form, shape' < Indo-European *- $k^w_i p$ -, etymologically related to Latin corpus etc.

Words for precious materials borrowed from Iranian may be exemplified by dipak 'brocade', Pahlavi dyp'g', and zarnawowxt 'silken', originally 'interwoven with gold', i.e. *zarna-vufta-, cf. Sogdian zyrnywfc with the same final participle, 'woven', as čačanawowxt 'variegated, multicoloured'. However, one designation for a luxury article, the word for scarlet, ordan, is indigenous, derived from ordn 'worm',99 and thus semantically comparable with Old Church Slavic črътьпъ 'red' which is related to črbvb 'worm'. 100 This is hardly surprising, considering the fact that Armenia is the homeland of the Armenian or Ararat cochineal, a scale insect of which a precious crimson dye has been produced from ancient times. It is thus not unthinkable that for once the Iranian word which is the source of the European words for crimson

^{94.} Cf. Ačaryan III, 195; MacKenzie 1971, 22.

^{95.} Olsen 265-266.

^{96.} Cf. Manichaean Middle Persian ng'r 'image, picture', Modern Persian nigār 'painting, picture'.

^{97.} Benveniste 1945, 69-70.

^{98.} Cf. EWAia I, 316. Thus *kert- (LIV 356), besides *spen(h)- and *sneh₁(i)-, would be another inherited root with the meaning 'spin'. Eichner (1974, 98; cf. also Kloekhorst 2008, 459-460) has adduced a possible cognate in the Hittite noun karza-/karzan- 'spool' or 'bobbin'.

^{99.} While *ordn* has no recognized etymology, a remodelling or contamination between the protoforms of Latin *vermen* and Sanskrit *kṛmi*- 'worm' is hardly out of the question, cf. Olsen 1999, 127.

^{100.} This belongs with the widespread word family also represented by Sanskrit *kṛmi*- 'worm; spider; shield-louse', Lithuanian *kìrmis* 'worm' etc. French *cramoisin*, English *crimson*, Dutch *karmozijn* etc. derive from Medieval Latin *carmesīnus*, a derivative of a borrowing from Arabic *qirmiz* whose ultimate source is Persian *qirmiz*.

(cf. note 100) is a calque from Armenian.

Another red dye is scarlet, Armenian *janjaxarit*^c, produced from the insect Kermes vermilio, 101 mainly feeding on a species of oak trees, quercus coccifera, in the Mediterranean region. The only early Armenian attestation is from Isaiah 1.18 where we have a parallel of the red scarlet and crimson as opposed to the white snow and wool: $Ew\ et^c\bar{e}\ ic^cen\ melk^c\ jer\ ibrew$ <u>z-janjaxarit</u>^c, ibrew z-jiwn spitak araric^c, ew et^cē ic^cen ibrew z-ordan karmir, ibrew z-asr sowr araric^c "Though your sins be as scarlet (Greek "ώς φοινικοῦν"), they shall be white as snow; though they be like red crimson, they shall be as pure wool". According to Ačaryan, 102 we are dealing with a Semitic loanword, cf. Syriac zəxōrī9ā 'coccum, red worm'. Apparently the stem janjir- (janjir arnel 'tire, annoy') has played a supplementary folk-etymological role, cf. the alternative spelling *janraxarit*^c and the later meaning of janjaxarit^c, 'dark, dull red'.

The semantically related *cirani* 'purple; of purple, purple coloured', most likely has an Iranian origin. Obviously the stem is connected with *ciran* 'apricot', and with a basic meaning 'golden' we may compare with the family of Avestan *zaraniia*-, Sogdian *zyrn*, Vedic *hiranya*- 'gold', *i.e.* Indo-European *ĝ_ih₃(e)n-via a dialectal Iranian protoform *d-iran- under the assumption that the loan precedes the stage of mediae > tenues of the Armenian soundshift. Such very early loans are rare, but apparently not quite exceptional, ¹⁰³ cf. the notable example of *partēz* 'garden' with *-d->-t- (Avestan *pairi-daēza*-), and probably also *arcat*^c 'silver' from IE *(h₂)rĝnto- (Avestan *arazata*-, Latin *argentum*), again from a dialectal

Iranian protoform with affricate from original palatal, *i.e.* **ard*^z*ata*->*arcat*^c-.¹⁰⁴

In connection with the discussion of garments and materials it may be worthwhile to have a brief look at the colour terms, though of course these are also used in other contexts. For the essential concept of 'colour' the Armenian noun *goyn* (*o*-st.) is of Iranian origin, cf. Avestan *gaona*-, Pahlavi *gwn'*. ¹⁰⁵ The stem is also widely attested in composition, and in the reduplicated *gownak gownak* in Jud.15.15: *psaks gownaks gownaks*, probably 'multicoloured wreaths'. A more specialized term is *erang* 'colour, dye', cf. Pahlavi *lng*, Sanskrit *ranga*-, while 'dye' or 'coloured, embroidered material' is expressed by the loanword *narawt* which has been compared with Khotanese *nar*- by Bailey. ¹⁰⁶ Likewise, most of the specific colour terms have an Iranian background, thus:

- *pisak* 'spotted, speckled', 107 a derivative of **paisa*-, Avestan *paēsa* 'ornament'.
- *spitak* 'white' with the North West Iranian development of * $\hat{k}\mu$ ->*sp*-, cf. Pahlavi *spytk*', Sanskrit *śveta*-.
- *seaw* 'black', cf. Middle Parthian *sy'w*, Avestan *siiāuua*-.
- *karmir* 'red', cf. Sogdian *krm'yr*.
- kapoyt 'dark blue' and kapowtak 'bluish' where the original meaning would have been 'dovecoloured', cf. Pahlavi kpwt' 'grey-blue; pigeon', Old Persian kapautaka-, probably 'blue', Vedic kapóta- 'pigeon'.

The historical background of kanač^c 'green' 108 and

- 101. The Latin name is taken from the above-mentioned word for 'crimson'.
- 102. Ačaryan III, 145-146.
- 103. Cf. the discussion in Olsen 2005.
- 104. De Lamberterie 1978, 245-251.
- 105. This noun has had a tremendous success in Armenian, first in compounds as complete loanwords, *e.g. vardagoyn* 'rose-coloured' (Sogdian *wrδγwn*), *karmiragoyn* 'reddish' (Sogdian *krm'yr γwn'k* 'of red colour') or semi-calques such as *oskegoyn* (*oski* 'gold') beside Sogdian *zyrnγwn(č)* 'gold-coloured', then from the nucleus of colour adjectives to a general adjective suffix describing appearance or manner, *e.g. mardasiragoyn* 'in a gentle manner', and finally we find full grammaticalization in the usual comparative/elative suffix. In modern Armenian, *-goyn* is used to express the superlative.
- 106. Bailey 1989, 174.
- 107. Originally only used about animals such as horses and goats. On the whole, the vocabulary pertaining to horses is strongly influenced by Iranian on account of their military importance.
- 108. Ačaryan II, 510-511.

gorš 'grey'¹⁰⁹ is unknown, and of the basic colour terms only *delin* 'yellow' has a plausible Indo-European etymology.¹¹⁰

This selection of textile terms from Classical Armenian testifies to a rich and varied vocabulary, historically shared between a foundation of inherited lexical material and an influx of cultural loans from the politically and culturally dominant Iranians. Our sources do not permit us to go beyond the stage of the reconstructed Indo-European protolanguage, but we do know for certain that the area now inhabited by Armenians has a long tradition of advanced textile technology. In a cave in Vayoc^c Jor in the southern part of Armenia, archaeologists have excavated a beautifully sown moccasin, "the world's oldest shoe", dated to about 3500 BC.111 What language its wearer spoke and what words he or she would have used to describe it, its material, colour and fabrication, we shall never know.

Abbreviations

- Ciakciak = P.W. Ciakciak: *Bargirk^c barbar hay ew itala-kan* I-II. Venetik 1837.
- EWAia = Manfred Mayrhofer: *Etymologisches Wörterbuch des Altindoarischen*. Heidelberg 1986-2001. Heidelberg.
- IEW = Julius Pokorny: *Indogermanisches etymologisches Wörterbuch*. Bern, 1959.
- LIV = Lexikon der indogermanischen Verben. Die Wurzeln und ihre Primärstammbildungen. Unter
 Leitung von Helmut Rix und der Mitarbeit vieler anderer bearbeitet von Martin Kümmel, Thomas Zehnder, Reiner Lipp, Brigitte Schirmer.
 Zweite, erweiterte und verbesserte Auflage bearbeitet von Martin Kümmel und Helmut Rix.
 Wiesbaden, 2001.
- Nor Bargirk^c = *Nor Bargirk^c haykazean lezowi* I-II. Venice. Reprint Erevan 1979-81.

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- 109. Ačaryan I, 584.
- 110. Apparently a derivative of the same root as *del* 'herb' (cf. also *delj* 'peach', *deljan* 'blond', *dalukn* 'jaundice') which would match Latin *helus* > *holus* 'herb' < $*\hat{g}^h\acute{e}lh_3os$ except for the initial $*\hat{g}^h$ -, regularly yielding *j*-, *i.e.* [d²-]. Perhaps the stem was contaminated with the semantically related *dalar* 'fresh and green' = Greek $\theta\alpha\lambda\epsilon\rho\delta\varsigma$.
- 111. Cf. Pinhasi et al. 2010.

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