# To charian periphrastic $y\bar{a}m$ - constructions revisited A Tocharian cvi-construction?

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## 1 Introduction

- Tocharian periphrastic  $y\bar{a}m$ -constructions consist of a light verb AB  $y\bar{a}m$  'do' + a verbal noun, adjective or adverb
- They can be transitive (+ obl. or other case obj.) or intransitive
- They are sometimes used to translate Sanskrit aya-verbs, but are not restricted to this use and are notably never used to translate causatives in -aya- ("What does not seem to be attested is the rendering of a true Skt. aya-causative by a collocation of a noun with AB  $y\bar{a}m$  'do', even though such collocations of AB  $y\bar{a}m$  and the obliquus of an abstract noun are especially often used in order to render noncausative Skt. aya-forms", Malzahn 2010:63).
- Their synchronic distribution (/function) and origin is unclear

The goal of this contribution to discuss the place of this construction in the Tocharian verbal system. We argue that

- The  $y\bar{a}m$ -construction is used to form periphrastic unergatives (verbs with agent/actor subjects) and factitives, specifically
  - 1. Periphrastic factitives to (adverbialized) adjectives, e.g., B  $\bar{a}rkwi\ y\bar{a}m$  'make white',  $p\bar{a}kri\ y\bar{a}m$  'make clear',  $m\bar{a}ka\ y\bar{a}m$  'multiply, augment', etc., some of which alternate with periphrastic inchoative constructions with  $m\ddot{a}sk$  'become' and nes- 'be'
  - 2. Periphrastic unergatives (mostly to roots without a synchronic verbal paradigm), e.g., B  $\bar{a}klyi$   $y\bar{a}m$  (A  $\bar{a}klye$   $y\bar{a}m$ -) 'practice, study', A  $tu\dot{n}k$   $y\bar{a}m$  'love', B  $ke\acute{s}$   $y\bar{a}m$  'count', etc.
  - 3. Periphrastic constructions in which the verbal noun is a Sanskrit loanword, e.g., anumodit  $y\bar{a}m$ 'give approbation to',  $cotit\ y\bar{a}m$  'accuse', etc., which functionally overlap with class 2).
- It thus fills the functional "gap" created by the lack of synchronically productive *synthetic* denominal/deadjectival verb formation (Adams 2013:530)
  - Specifically the lack of productivity of the inherited \*ie/o-verbalizer in this function.
  - ... though a few of the constructions in classes 1) and 2) compete with synthetic denominal verbs of class XII (or with other types of periphrastic constructions).
- Function 1 is moreover functionally equivalent to periphrastic constructions with predicatively used nominal case forms or adverbs in other IE languages, such as the notorious "cvi-construction" in Sanskrit or the Latin arefacio/facit are-type.
  - ... but is it also *formally* equivalent...? Stay tuned!

# 2 Background

#### 2.1 Meunier's classification

Meunier (2013) distinguishes between predicative  $y\bar{a}m$ -constructions with a morphologically invariable substantive, adjective, or adverb and non-predicative constructions in which the substantive or adjective is in the oblique and thus the expected direct object of  $y\bar{a}m$ -; (1).

- (1) Meunier (2013): Predicative vs. non-predicate  $y\bar{a}m$ -constructions
  - a. Predicative ("locution prédicative"):  $[y\bar{a}m$  + predicate] + DO<sub>OBL</sub>.
  - b. Non-predicative ("locution non prédicative"):  $[y\bar{a}m$  + DO<sub>OBL.</sub>]
  - (1-b) includes constructions in which a non-oblique noun is dependent on the DO (as in its use outside
    of the periphrastic construction) this is Meunier's main criterion for classifying a construction as
    non-predicative.
  - (1-a) consists of constructions in which the predicate is an *invariant* substantive, adjective, or adverb—its form doesn't change under passivization, whereas it alternates between nominative and oblique in the non-predicative construction.
    - The usefulness of this criterion is undercut by the fact that *all* of the nouns used in the "non-predicative" constructions have identical nominative and oblique forms.
  - We mostly follow Meunier's distinction w.r.t. the status of the DO, but focus on the synchronic function of these constructions within the Tocharian verbal system that has not yet received much discussion.

Unambiguous examples of  $(1-a)^1$ :

(2) a. TB, THT 308 a2:

mā l(āre) yamītār yolaim waṣamom not love.OBL do.3SG.OPT.MID bad.OBL friend.OBL

"one should not love a bad friend" (= Uv. XXV.3a na bhajet pāpakam mitram, Meunier 2013:140)

b. TA, A 153 (THT 786) b3:

wram pättāňkät käṣṣi **eśe yāmtsāt** thing.OBL buddha-lord.NOM teacher.NOM knowledge do.3sg.PRET.MID

"le Buddha-seigneur, le maître, prit connaissance de l'affaire." (Meunier 2013:148)

Unambiguous example of (1-b):

(3) TB, IOL Toch 2 b2:

yolo yamaşan no anmatse śle=lyenkäts evil.OBL do.3SG.PRES.ACT but self.GEN with=other.GEN.PL

"he commits evil for himself and for others" (Peyrot 2007)

#### Problems:

- The distinction between the two constructions isn't always so clear-cut an alternative way of analyzing the distinction is as transitive vs. intransitive periphrastic constructions (as in Adams 1999:491; Adams 2013:530)
- It's unclear whether these are two related constructions (in which one is older than the other) or arose independently. Meunier hints at the latter possibility and speculates that the predicative type could be inherited, but without giving arguments.

<sup>&</sup>lt;sup>1</sup> All Tocharian examples & translations are from CEToM undless otherwise indicated.

## 2.2 Denominal/deadjectival verb formation in IE and Tocharian

- \*-*ie*/o-verbalizer: productive denominal verb-forming suffix in (Anatolian?), IIr. & Greek; extensions (such as \*-*āie*/o- etc.) in Italic, Celtic ... but not in Tocharian (but see (5))
- (4) a. Ved. vasnayáti 'haggle, negotiate' (vasná- 'price'), mantráyate 'say mantras' (mańtra-), mṛgáyate 'hunt' (mṛgá- 'wild animal; deer'), etc.
  - b. Greek οἰκέω 'dwell, inhabit'(οἴκος 'house, home'), νῖκάω 'be victorious' (νίκα, -η 'victory'), στεφανόω 'crown' (στεφανός 'crown'), etc.
  - c. Lat. (mostly \*- $\bar{aie}/o$ -):  $fr\bar{u}mentor$  'fetch corn' ( $fr\bar{u}mentum$  'corn'), arbitror 'observe, witness' (arbiter 'witness'),  $c\bar{u}r\bar{o}$  'take care of' ( $c\bar{u}ra$  'care'), etc.
  - No reflexes of the "newahhi-type" (Jasanoff 2003, Rau 2009) in Tocharian
  - The only 1) synthetic, 2) synchronic way of forming denominal verbs in Tocharian is via the class XII suffix  $-\tilde{n}\tilde{n}\ddot{a}$  < \*- $n(h_2)$ -ie/o-, with limited productivity, (5).
- (5) Denomial  $-\tilde{n}\tilde{n}\tilde{a}$ -verbs in Tocharian (Malzahn 2010:477–9)<sup>2</sup>:
  - a.  $\bar{a}\tilde{n}m^{-\bar{a}}\tilde{n}\tilde{n}$  'wish' ( $\bar{a}\tilde{n}me$  'wish')
  - b.  $^{A}arsas^{-i}\tilde{n}\tilde{n}$  'fit (of clothes)' (\*aräs 'shape'?)
  - c.  $k\bar{a}w^{\bar{a}}$ - $\tilde{n}\tilde{n}$  'desire' ( $k\bar{a}wo$  'desire')
  - d. Akās-iññ-'scold' (\*kas-'black(ness)'? Cf. Bkāswo 'skin inflammation', Hackstein 2003:84)
  - e.  ${}^{A}klop^{-i}\tilde{n}\tilde{n}$  'express sorrow' (klop 'sorrow')
  - f.  $kwipe-\tilde{n}\tilde{n}$  'be ashamed' ( $kw\bar{i}pe$  'shame')
  - g.  $t\ddot{a}\dot{n}kw^{-\ddot{a}}\tilde{n}\tilde{n}$  / A  $tu\dot{n}k^{-\dot{i}}\tilde{n}\tilde{n}$  'love' (B  $t\ddot{a}nkwe$ , A  $tu\dot{n}k$  'love')
  - h.  $yk\bar{a}ms^{-a}\tilde{n}\tilde{n}$  'feel disgust' (\* $yk\bar{a}mse$  'repulsion, aversion')
  - i.  $l\bar{a}re-\tilde{n}\tilde{n}$  'love' ( $l\bar{a}re$  'dear'; 'love')
  - j.  $win^{\bar{a}}-\tilde{n}\tilde{n}-/$  <sup>A</sup> $win^{-i}\tilde{n}\tilde{n}-$  'enjoy' ( $w\bar{i}na$  'pleasure')
  - k.  $^{\text{A}} \acute{s}ew^{-i}\tilde{n}\tilde{n}$  'yawn' (\*sæiwän-?)
  - l. skw- $\ddot{n}\tilde{n}$  'be happy' (sakw 'pleasure, happiness')
  - m.  ${}^{A}s_{u}kas^{-i}\tilde{n}\tilde{n}$  'be happy' (? base unattested, but similar to l.)
  - n. sklok- $\tilde{a}\tilde{n}\tilde{n}$  'despair' (sklok 'doubt')
  - o.  $tsere-\tilde{n}\tilde{n}$  'deceive' (\*tserek(w) 'deception', pl. tserekwa)
  - Note that the synthetic verbs in (5) are mostly psychological state/"experiencer" verbs
- $\rightarrow$  Periphrastic  $y\bar{a}m$ -constructions are used instead as a type of "DO-support" to form prototypically unergative verbs (mostly activity and accomplishment verbs) from substantives.
  - Periphrastic unergatives are a typologically common strategy, (6).
- (6) Periphrastic unergatives in Basque, Tanoan & Persian (Hale and Keyser 1998, 2002; Folli et al. 2005)

a. Base	que		b. Tanoan		c. Pers	ian	
lo	egin	'sleep'	se-'a	'speak'	raghs	kardan	'dance'
sleep	do		speech-do		dance	doing	
barre	egin	'laugh'	sae- ' $a$	'work'	gerye	kardan	'cry'
laugh	do		work-do		$\operatorname{cry}$	doing	

As for the classes of synthetic deadjectival verbs, it has long been noted that Tocharian class III & IV verbs mostly denote "state[s], or more commonly the process of entering a state" (Jasanoff 1975:102; also Jasanoff 2003, 2004). While the connection to change-of-state-verbs in general is well-established, it is less easy to find class III/IV presents (or any kind of synthetic present, for that matter) to primary, **Caland-associated** property-concept adjectives.

<sup>&</sup>lt;sup>2</sup>And maybe also  $\bar{a}rc(-\tilde{a}\tilde{n}\tilde{n})$ - 'should, ought to',  $cele-\tilde{n}\tilde{n}$ - 'appear',  $^{A}kr\bar{a}s$ - 'vex',  $^{A}sla\dot{n}k$ - $^{i}\tilde{n}\tilde{n}$ - '?'.

(7) Inherited Caland-adjectives with associated primary verb stems in Tocharian (Fellner 2016, Pinault 2021:124)

Adjective		verb		class	$\operatorname{root}$
B swāre, A swär	'sweet'	A $sw\bar{a}r\ddot{a}st\bar{a}r$	'enjoy'	VIII	$*sueh_1d$
B $as\bar{a}re$ , A $\bar{a}sar$	'dry'	B osotär, A asatär	'be dry'	IV	$*h_2eh_1s$
B pärkare, A pärkär	'long'	A pärkatär	'arise'	III	$*b^her\hat{g}^h$
$B l\bar{a}re$	'dear, lovable'	B $lare-\tilde{n}\tilde{n}$ - (hapax)	'love'	XII	$*leh_2d$ (?)

- ... but the direction of derivation is extremely murky: A  $sw\bar{a}r\ddot{a}st\bar{a}r$  is a deadjectival verb morphologically (semantically?), while B  $as\bar{a}re$ , A  $\bar{a}sar$  look like \*-ro-adjectives to the verbal root AB  $\bar{a}s^{(\bar{a})}$  (see Pinault loc.cit. for more examples of verbal root-derived \*-ro-adjective).
- Clearly none of the verbal strategies in (7) were productive in forming deadjectival factitive/inchoative alternation verbs so how were such verbs formed synchronically in Tocharian?  $\rightarrow$  periphrastic  $y\bar{a}m$ -/ $m\ddot{a}sk$ -/nes-constructions!

# 3 Types of $y\bar{a}m$ -constructions

## 3.1 Periphrastic unergatives

Total of  $y\bar{a}m$ -constructions in TB: 47, in TA: 26

- Periphrastic unergatives are the largest group of attested  $y\bar{a}m$ -constructions, consisting of a noun with nom/obl-syncretism + voice-invariant form of  $y\bar{a}m$  (= finite forms are either only active or nonactive/middle).
- I.e., DO<sub>aux</sub> + direct object formally similar to Skt. type  $saphalam \ k_r$  'fulfill a promise',  $kath\bar{a}m \ k_r$  'tell a story',  $mithun\acute{a}m \ k_r$  'pair, mate', etc. (Balles 2006:50ff.)
- Most of these nouns are also attested outside of the periphrastic construction

#### (8) Tocharian B periphrastic unergatives

Form	Meaning	Base		Noun case	Case on obj	Voice of aux.
āke yām-	'end, put an end to'	$\bar{a}ke$	'end'	nom=obl	gen	act
$\bar{a}kli\ y\bar{a}m$ -	'study, train'	akalye	'study, learning'	obl	loc, com	$\operatorname{mid}$
$ekita\ y\bar{a}m$ -	'help'	ekita	'help'	obl	all, loc	act
$kartse\ y\bar{a}m$ -	'do good'	kartse	'good, welfare'	nom = obl	gen	act
karyor pito yām-	'do commerce,	karyor;	'buying';	nom=obl	/	$\operatorname{mid}$
	trade'	pito	'price, cost'			
$ke\acute{s}~y\bar{a}m$ -	'count'	$ke\acute{s}$	'count, number'	nom=obl	obl	$\operatorname{mid}$
$l\bar{a}re~y\bar{a}m$ -	'love'	$lar{a}re$	'dearness, love'	nom=obl	obl	$\operatorname{mid}$
$p\bar{a}ke\ y\bar{a}m$ -	'take part in'	$p\bar{a}ke$	'part'	nom=obl	obl; gen	act/mid
$pauccim y \bar{a}m$ -	'renounce, separate	pauccim	'separation'	nom = obl	abl	$\operatorname{mid}$
	from'					
$pkante\ y\bar{a}m$ -	'obstruct'	pkante	'obstacle'	nom = obl	gen, all	act
pruccamñe yām-	'procure an advan-	$pruccam  ilde{n}e$	'advantage'	nom=obl	gen-dat	
	tage'					
$putkal\~ne~y\=am$ -	'renounce, separate	$putkal ilde{n}e$	'separation'	nom=obl	abl	
	from'					
$saim\ yar{a}m$ -	'take refuge in'	saim	'refuge'	nom=obl	obl	$\operatorname{mid}$
$spakt\bar{a}\dot{m}~y\bar{a}m$ -	'perform a service	$spaktar{a}\dot{m}$	'service'	nom = obl	gen-dat	act
	(for)'					

$telki\ yar{a}m$ -	'sacrifice'	telki	'sacrifice'	nom=obl	/	act
$waste\ y\bar{a}m$ -	'take refuge in'	waste	'refuge'	nom=obl	obl	
$yarke\ y\bar{a}m$ -	'honor'	yarke	'honor'	nom=obl	gen	act
yarpo yām-	'do a good deed'	yarpo	'good deed'	nom=obl	/	$\operatorname{mid}$
$yolo\ yar{a}m$ -	'do/commit evil'	yolo	'bad, evil'	nom=obl	gen	act (?mid)

## (9) Tocharian A periphrastic unergatives

Form	Meaning	Base		Noun case	Case on obj	Voice of aux.
āke yām-	'end, put an end to'	$\bar{a}k$	'end'	nom=obl	gen	
āklye yām- kāsu yām- omäskeṃ yām- pñi yām- pruccamñe yām-	'study, train' 'do good' 'do/commit evil' 'do a good deed' 'procure an ad-	āklye kāsu omäskeṃ pñi pruccamñe	'study, learning' 'good (deed)' 'evil' 'good deed' 'advantage'	nom=obl nom=obl nom=obl ? nom=obl	loc, com gen gen / gen-dat	mid act act mid mid
sem yām- spaktāṃ yām-	vantage' 'take refuge in' 'perform a service (for)'	$sem \\ spaktar{a}\dot{m}$	'refuge' 'service'	nom=obl nom=obl	obl gen-dat	mid act
tunk yām- umpar yām- yärk yām-	'love' 'do/commit evil' 'honor'	tunk umpar yärk	'love' 'evil' 'honor'	nom=obl nom=obl; perl (1x)	loc / gen	mid act act

## (10) ... and a few that are probably better analyzed as psychological state/experiencer verbs:

Form	Meaning	Base		Noun case	Case	Voice
					on obj	of aux.
AB onmim yām-	'repent, feel remorse'	onmim	'remorse'	nom=obl	/	mid
B $w\bar{\imath}na\ y\bar{a}m$ -	'find pleasure in'	$w ar{\imath} n a$	'pleasure'	nom = obl	loc	$\operatorname{mid}$
B yirşalñe yām-	'show deference'	$yir$ şal $ ilde{n}e$	'deference'	nom = obl	all	$\operatorname{mid}$
B swāralñe yām-	'enjoy, take pleasure in'	$swar{a}ral ilde{n}e$	'pleasure'	nom=obl	/	$\operatorname{mid}$

- Voice alternations such as active—passive are expressed by changing the auxiliary rather than the inflection (act—mid) of  $y\bar{a}m$ -:  $m\ddot{a}sk$  'be(come)'; B nes-, A nas- 'be' (and less frequently also  $k\ddot{a}lp$  'obtain', A yap- 'do' and a couple of others)
- The inflection of the  $y\bar{a}m$ -auxiliary varies (act. vs. mid.). Meunier remains agnostic as to any sort of functional differentiation; Schmidt (1974:419ff.) argues that the middle forms fall under "subject-affected"/"subject-oriented" uses ("Das Subjekt vollzieht die Verbalhandlung für sich").
- There's a slight tendency for constructions with an oblique DO to take middle endings, while those with a genitive (or all, loc...) object take active endings but needs to be confirmed by further work.

#### (11) Examples:

a. TA, YQ II.7 a5, act; gen:

klyomänt meträkyāp **yärk ypeñc** noble.OBL Maitreya.GEN honor.OBL do.3PL.PRES.ACT

"They honor/pay homage to the noble Maitreya"

b. TA, A 18 (THT 651) a1, mid; itr:

ptānkāt käṣṣi tri asaṃkhes känt kalpsaṃ **āklye yāmtsāt** buddha.NOM master.NOM three.OBL A.OBL hundred kalpa.OBL practice do.3sg.pret.mid "the Buddha, the master, has practised over three Asamkhyeyas and a hundred kalpas"

# 3.2 Calques/"tocharianizations"

- Mostly translate Buddhist technical terms into Tocharian synthetic verbs like the abovementioned -aya-verbs, but not exclusively.
- While there is a functional/typological parallel to Sanskrit periphrastic constructions (with  $k_r$  'do'), the Tocharian  $y\bar{a}m$ -construction as such cannot be reduced to a calque
- Among other arguments, this is shown by B saim A sem  $y\bar{a}m$  (not i-!) 'take refuge', which translates Skt.  $\acute{s}aranan$  qam-.
- (12) Periphrastic  $y\bar{a}m$  as Tocharianizations of Skt. terms

Toch. AB	Meaning	Sanskrit		case	voice
				on obj	of aux
B adhiṣṭhit yām-	'hold, possess'	adhisthita-	'possession, control'	obl	mid
$anumodit\ yar{a}m$ -	'approve'	$anumodayati; \ anumodita-$	'approved, permit- ted'	obl	act
B $appam\bar{a}t/$ A	'neglect, mock'	avajananti; Skt. alpa-	'little/unimportant	obl	$\operatorname{mid}$
appärmat yām-		$matra$ -, Pkt. $appam \breve{a}ta$ -	thing'		
B cotit yām-	'accuse'	$codayati;\ codita$ -	'accusation'	obl(?)	$\operatorname{act}$
$de\acute{s}it$ $yar{a}m$ -	'confess'	$de\'{sit}a$ -	'confession'	/	$\operatorname{mid}$
$k$ ṣ $\bar{a}nti~y\bar{a}m$ -	'pardon'	$k$ ṣ $ar{a}nti$ -	'pardon'	obl	act
B nermit yām-	'create, form (by magic)'	$nirminoti;\ nirmita$ -	'created (by magic)'	obl	(ptcp)
B $sarit/$ A $s\bar{a}rit$ $y\bar{a}m$ -	'memorize'	smarayati; *sarita- (Skt. smarita-, Pkt. sārita-)	'learned, memorized'	obl	act
B samanit yām-	'assemble, summon'	$samar{a}nar{i}ta$ -	'assembly'	/	(PP)
B śrigupti yām-	'take refuge in'	$\acute{s}rar{\imath}gupti$ -	'refuge'	loc	(PP)
B wasaṃpāt/ A wasāṃpāt yām-	'ordain (a monk)'	$upasampadar{a}$ -	'ordination'	gen	act

## 3.3 Periphrastic factitives

• Factitive-inchoative alternation verbs to adjectives or adjective-derived adverbs

#### (13) Toch. B $(y\bar{a}m-/)m\ddot{a}sk-/nes$ -constructions with predicative adjectives

Form	Meaning	Base		Case
astāre yām-	'be made pure' <sup>3</sup>	$ast\bar{a}re$	'pure'	nom
col(yi) nes-	'become wild'	col	'wild, savage'	nom(.pl.)
$lakutse\ nes$ -	'be(come) bright, shining'	lakutse	'shining, bright'	nom
$orotstse\ nes$ -	'become big, grow up'	or otstse	'big, great'	nom
$sw\bar{a}re\ nes$ -	'be sweet	$sw\bar{a}re$	'sweet'	nom
$tapre\ nes$ -	'be(come) high'	tapre	'high'	nom
ārkwi yām-/mäsk-	'make/become white'	$ar{a}rkwi$	'white'	nom=obl?
$kro\acute{s}ce\ nes$ -	'be(come) cold'	$kro\acute{s}ce$	'cold'	nom

- For the factitive version, these adjectives apparently needed to either
  - 1. be substantivized, so that the predicate could be used as a substantive in the oblique (cf. kartse,  $l\bar{a}re$ , yolo in section 3.1)
  - 2. be turned into an adverb, cf. (15).

 $<sup>^3\</sup>mathrm{THT}$  549 b5 maim palsko astare yamaşälle "thought [and] mind [are] to be made pure".

But there is one odd exception:  $\bar{a}rkwi \ y\bar{a}m$ - in (14), which seems to use the nominative (?oblique) of the adjective  $\bar{a}rkwi$ . We'll get back to this.

## (14) W 11 a5 (also W 8 b2?):

se laiko ārkwi yamaṣāṃ this unguent white make.3SG.PRES.ACT

"cet onguent rend blanc" (Filliozat 1948); "this as a rinse makes white" (Broomhead 1962)

- A second group consists of an indeclinable "adverbial" form  $+ y\bar{a}m$
- Some of these are morphologically related to adjectives and/or classified as indeclinable adjectives on CEToM & by Meunier.

#### (15) Toch. B, predicative $y\bar{a}m$ -constructions with adverbials/indeclinable adjectives

Form	Meaning	Base		Voice of aux.
apākärtse yām-	'make visible, manifest'	$ap\bar{a}k\ddot{a}rtse$	'visible, manifest'	(PP)
$erkatte\ yar{a}m$ - $/m\ddot{a}sk$ -	'mistreat/be mistreated'	erkatte	'hostile'	$\operatorname{mid}$
$par{a}kri\ yar{a}m$ - $/m\ddot{a}sk$ - $/nes$ -	'make/be(come) clear, obvious'	$p\bar{a}kri$	'clear'	act
aiśai yām-/mäsk-	'notice, pay attention to/appear'	$ai\acute{s}ai$	'aware'	$\operatorname{mid}$
$ar{a}rwer\ yar{a}m$ - $/nes$ -	'get ready, prepare/be ready'	$\bar{a}rwer$	'ready'	$\operatorname{mid}$
$ate \ yar{a}m$ -	'distance, get rid of'	ate	'away, far'	act
$epiyac\ yar{a}m$ -	'make remember, remind'	epiyac	'in mind'	$\operatorname{mid}$
$mar{a}ka\ yar{a}m$ -	'multiply, augment'	$mar{a}ka$	'many, much'	act/mid
$yne\acute{s}~y\bar{a}m$ - $/m\ddot{a}sk$ - $/nes$ -	'make/be(come) true, real'	$yne\acute{s}$	'real, true'	$\operatorname{mid}$

#### (16) Toch. A, predicative $y\bar{a}m$ -constructions with adverbials/indeclinable adjectives

Form	Meaning	Base		Voice
				of aux.
$p\bar{a}k\ddot{a}r\ y\bar{a}m$ - $/m\ddot{a}sk$ -	'make/become clear, obvious; show'	$p\bar{a}k\ddot{a}r$	'clear'	act
$par{a}kra\acute{s}i\ yar{a}m$ -	'make visible, manifest'	$par{a}kra\acute{s}i$	'visible, manifest'	$\operatorname{mid}$
$ar{a}rwar\ yar{a}m$ - $/nas$ -	'get ready, prepare/be(come) ready'	$\bar{a}rwar$	'ready'	PP
$e\acute{s}e$ $yar{a}m$ -	'notice, pay attention to'	$e\acute{s}e$	'aware'	$\operatorname{mid}$
$opyar{a}c$ $nas$ -	'remember'	$opy\bar{a}c$	'in mind'	
paṃ yām-/yap-/mäsk-	'take care of/be occupied with'	pam	'with effort (?)'	$\operatorname{mid}$
$yne\acute{s}~yar{a}m$ -	'make true, real'	$yne\acute{s}$	'real, true'	$\operatorname{mid}$

- All except B  $ap\bar{a}k\ddot{a}rtse\ y\bar{a}m$  and A  $p\bar{a}kra\acute{s}i\ y\bar{a}m$ -,  $\bar{a}rwar\ y\bar{a}m$  are transitive with obl. objects ( $\bar{a}rwar\ y\bar{a}m$  takes an infinitival complement).
- Functionally, these are similar to the Sanskrit *cvi*-construction, which makes (among other uses) factitives and inchoatives from adjectives in (post-Vedic) Sanskrit (Balles 2006, 2009): deadjectival predicate in  $-\bar{\imath} + kr$  'make, do'/ $bh\bar{\nu}$  'become' (univerbated in Classical Skt.), (17).
- (17) a.  $kr\bar{u}r\hat{i}$  kr- 'wound' (< \*'make bloody') :  $kr\bar{u}r\hat{a}$  'bloody'
  - b.  $t\bar{\imath}vr\dot{\imath}kr$  'make sharp; bitter, intense' :  $t\bar{\imath}vr\dot{\imath}a$  'sharp, bitter, intense'
  - c.  $s\bar{\imath}t\bar{\imath}kr$  'cool, make cold',  $s\bar{\imath}t\bar{\imath}bh\bar{u}$  'become cold' :  $s\bar{\imath}ta$  'cold'

While the (de)adjectival predicates in (15)–(16) are not as morphologically uniform as the *cvi*-construction, they do share in common the adverbial/predicative use of an erstwhile case form (cf. Balles 2006, 2009 on predicatively used instrumentals):

- B pākri, A pākär: adverbial/fossilized case forms of B pākre, A pākär 'visible, evident' < \*paĝ-ró- (Ved. pajrá- 'firm, fixed') or < \*(s)pōk-ró- 'visible' (vel sim.; \*spek 'see, notice', AB päk- 'intend'; Adams 2013:390). The first is semantically unconvincing, the second requires a R(ō) grade that is difficult to motivate. Either way, if this is an old \*-ro-adj., B pākre and A pākär could reflect adverbially used accusatives, while B pākri could be an old dat. in \*-ōi or loc. in \*-oi according to Adams (2013:389).
- ... but **B**  $p\bar{a}kri$  could conceivably also be a fossilized instrumental form in \*- $ih_1$ , with "i-substitution" (originally substantivization) of \*-o- by \*-i- (Schindler 1980; Nussbaum 1999, 2014; Balles 2006; Grestenberger 2017) + instr.sg. \*- $h_1$  on "predicative instrumentals" cf. Balles 2006 and recently Fortson 2020.
- Phonology: Either \*-r- $ih_1\#$  > PT \*- $ry\vartheta$  > B \*- $r'\vartheta$  > B -ri; > A \*- $r'\vartheta$  > -r OR \*-r- $ih_1\#$  > PT \*-r- $\vartheta$  # > B -ri, A -ri, Jasanoff, p.c. cf. 3sg.aor.opt. TB  $par\acute{s}i$  ( $p\ddot{a}rk$  'ask') < \* $pr\acute{e}k$ - $ih_1$ -t; B keni (A kanwem) < \* $\mathring{g}ony$ - $ih_1$  'knees'; B  $pw\ddot{a}ri$  < \* $p(u)w\ddot{o}r$ - $ih_1$  'fires'.
  - In the latter case, the attested TA form  $(p\bar{a}k\ddot{a}r)$  would presumably continue the oblique stem.
  - B  $ap\bar{a}k\ddot{a}rtse < *e(n)-p\bar{a}k\ddot{a}r- + -tstse$  (Adams 2013:17) if the adverbial use reflects the old accusative/oblique, it has escaped the analogical palatalization in -cce that is usual for this type (Fellner 2013:93f.).
  - A  $p\bar{a}kra\acute{s}i$ : cf. Pinault 2008:501 on the origin of the adverbial marker A  $-\acute{s}i$  (B  $-\acute{s}e$ ) from (genitival/appurtenance) \*-k(i)yo-.
- **B** aiśai, **A** eśe: only attested in the yām-/mäsk-constructions. Adams (2013:112) posits an old action noun PToch. \*āićai to aik- 'know', but without specifying the stem formation \*Heik-ŏi-?
  - If this was a verbal abstract of the type B *yoko*, obl. *yokai* 'thirst', an oblique in B -ai, A -e would be synchronically expected (so also Pinault 2008:343; on the prehistory of obl. -ai cf. also Pinault 2008:482ff.; Peyrot 2012; Jasanoff 2018).
  - That this was an oblique is also suggested by one passage in which we find a predicatively used perlative B aiśaisa construed with mäsk-, (18).
- B  $\bar{a}rwer$ , A  $\bar{a}rwar$ : Adams (2013:57) suggests an old pret.ptcp. from \* $h_2er$  'fit together' from with a nominal \*-(o)r-stem was derived; presumably something like PT \*aru-xer-. An adjective derived from this stem is attested in B  $arw\bar{a}re$  (< \* $arw\bar{o}ro$ -, Adams loc.cit.). The adverb could be based on the oblique or an endingless locative (note \*-or, not \*- $\bar{o}r$ ; cf. also Pinault 2011:164).
- **B**  $ate < PT * \bar{a}t\acute{e} (* \bar{a}t\acute{e}) < PIE * h_2et\bar{o} \text{ or } * h_2etos \text{ according to Adams (2013:10), cf. Lith. } ato- 'back, away', Ved. <math>\acute{a}ta\dot{h}$  'from there'.
- B epiyac, A opyāc: Loaned from Middle Iranian \*abiyāta- or \*abiyāti- 'memory' (cp. Pahlavi aβyāt;
  Adams 2013:95), originally the oblique of a noun so probably belongs to the periphrastic unergatives
  in section 3.1.
- **B**  $m\bar{a}ka$  (A  $m\bar{a}k$ )  $< *m\bar{a}k\bar{a} < *m\epsilon\hat{g}h_2$  (with a-umlaut, Pinault 2008:430; less likely  $*mo\hat{g}h_2$ , Adams 2013:479f.).
- A paṃ: unclear adverbial form that may be related to Gk. πόνος 'work, toil' (Barnes apud Meunier 2013:137 fn. 18)
- AB  $yne\acute{s}$ :  $<*y\ddot{a}n-æ\acute{s}\ddot{a}$  'in the eyes'  $<*(h_1)en-+$  æ $\acute{s}\ddot{a}$  du. 'eyes'  $<*h_3ok^{\mu}-ih_1$  (Pinault 2008:142, Adams 2013:560), NB requires  $*-ih_1>*-y\ddot{a}$ .
- (18) B, PK AS 12 J b2–3:

täne amāc aiśai mäsketär läc kañcuki • täne lāntsa then minister. NOM aware become. 3SG.PRES.MID go.3SG.PRET chamberlain then queen aiśai-sa mäske (tär)

aware-PERL become.3SG.PRES.MID

"alors le ministre apparaît. Le chambellan sortit; alors la reine apparaît" (Meunier 2013:148)

A final note on B  $\bar{a}rkwi$  'white': This is usually analyzed as nom/obl and related to \* $h_2ar\hat{g}$ - 'white; swift' (Ved.  $rjr\acute{a}$ - 'swift'; Gk. ἀργι-), cf. recently Pinault 2021 (\*-u-i-o), Malzahn (2022) (\*-u- $\bar{e}n$ ).

- ... but the use as adverbial-like *predicative* use in W 11 (and with  $m\ddot{a}sk$ -, but this is less significant) could suggest that this, too, was originally an old (de-)instrumental adverbial in  $-ih_1$ .
- Once the form had become opaque, it was reanalyzed as nom/obl (in analogy to other such forms in  $y\bar{a}m$ / $m\ddot{a}sk$ -constructions) and eventually remodeled with a morphologically transparent n-stem extension.

## 4 Conclusion

- The Tocharian  $y\bar{a}m$ -construction productively builds denominal unergatives and deadjectival factitives to (borrowed or inherited) substantives/verbal nouns and adjectives/adverbs.
- It is the formal (in a broad sense, without cognacy) equivalent of periphrastic constructions with predicative nouns/adverbs in other IE languages such as Latin and Sanskrit (cvi-construction)
- It is the functional equivalent of synthetic denominal and deadjectival unergatives and factitives formed with the \*ie/o-verbalizer in IIr., Greek, Latin, etc.
- There are some forms that suggest that the formal equivalence with the Sanskrit cvi-construction also extends to cognacy, with the -i of certain adverbial forms reflecting an instrumental in \*- $ih_1$  (B  $p\bar{a}kri$ , maybe B  $\bar{a}rkwi$ ), but this needs to be confirmed by future work.

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