Pāṇinīya tradition as a source for the study of the Middle Indo-Aryan labile verbs

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Pāņini and his school (pāņinīya)

Pāṇini VI – IV cent. B.C.

Kātyāyana III cent. B.C.

Patañjali II cent. B.C.

(all dates uncertain)

Pāņini's syntactical device: kāraka roles

kartŗ	=	'agent'
karman	=	'patient'
karaņa	=	'instrument'
saṁpradāna	=	'beneficiary'
adhikaraṇa	=	'location'
apādāna	=	'source'

basic sentence

Devadattaḥsthālyām odanam kāṣṭhaiḥpacati.Devadatta-NOMpot-LOCrice-ACCsticks-INSTRcook-3sg'Devadatta cooks rice in a pot by the means of some firewood'.

... from this some other sentence are derived...

adhikarana 'location' as kartr

Sthālī droņam pacati.

pot-NOM measure-ACC cook-3sg

'The pot cooks a *droņa*'.

karaņa 'instrument' as kartŗ

Kāṣṭhānyodanampacanti.sticks-NOMrice-ACCcook-3sg

'Wooden sticks cook rice'.

karaņa 'instrument' as kartŗ

Paraśunā	chinatti.	\Rightarrow	Paraśuś	chinatti.
axe-INSTR	cut-3sg		axe-NOM	cut-3sg
'He cuts with an axe'.		\Rightarrow	'The axe cuts'.	

Devadatto dhanuṣā mṛgaṁ vidhyati Devadatta-NOM bow-INSTR deer-ACC shoots-3sg 'Devadatta shoots a deer with a bow'.

↓

Dhanur mṛgaṁ vidhyati. bow-NOM deer-ACC shoot-3sg 'The bow shoots the deer'.

adhikarana 'location' and apādāna 'source' as kartr:

Balāhakād / balāhakevidyotatecloud-ABL / cloud-LOClighten-3sg.MID'It is lightening from / in the cloud'.

Balāhakovidyotatecloud-NOMlighten-3sg.MID'The cloud is lightening'.

Canonical lability:

- both transitive and intransitive constructions are attested;
- the subject changes its semantic feature;
- the entire paradigms of the involved verbs are labile;
- the elliptic argument of the verb cannot be recovered from the context;
- no lexical synonymy can be adduced to explain the two variants of the verbs.

No patient-preserving lability

valence decreasing derivation is morphologically marked:

Devadattaḥ	pacaty	odanam.	\Rightarrow	Odanaḥ	pacyate.
Devadatta-NOM	cook-3sg.ACT	rice-ACC		rice-NOM	cook-3sg.PASS
'Devadatta cooks rice'.				'The rice coo	ks by itself'.

Agent-preserving lability

Devadattaḥ pacati.

Devadatta-NOM cook-3sg

'Devadatta cooks'.

Middle Indo-Aryan languages:

- Pāli (Buddhist canon, very similar to Sanskrit)
- Prakrits (spoken vernaculars, III cent. B.C. 1000 A.D. ca.)
- Buddhist Hybrid Sanskrit (extremely "prakritized" version of

late Sanskrit of the Buddhist literature, first centuries A.D.)

Scalar presentation of the verbal system

valence num.:	1	2	3	4
semantic roles:	A/P	A+P or C+A/P	C+A+P	C+C+A+P
type of verb:	intransitive	transitive or causative of an intransitive	causative of a transitive	double causative

Valency increasing derivation in Sanskrit

Morphology:

suffix -aya- (later -āpaya-)

lengthening of the root vowel (usually)

Example:

patati 'falls' \Rightarrow pātayati 'causes to fall'

System of diatheses in Classical Sanskrit

- **active**, marked by so-called active endings (like 3sg. -*ti*)
- **middle**, marked by so-called middle endings (like 3sg. -*te*)
- **passive**, marked by the middle endings and a special suffix -ya-

Valency decreasing derivation in Sanskrit:

impersonal passive construction

odanaḥ pacyate devadattena rice-NOM cook-3sg.PASS Devadatta-INST 'The rice is cooked by Devadatta' (**standard passive**)

vs.

odana<u>ḥ</u> pacyate

rice-NOM cook-3sg.PASS

'The rice is cooking' (valence decreasing impersonal passive)

Valency decreasing derivation in Sanskrit:

middle voice

muñcati

free-3sg.ACT

'He frees' (active, transitive)

VS.

muñcate

free-3sg.MID

'He frees himself, becomes free' (valence decreasing middle).

Verb in Sanskrit

valences number:	1	2	3
semantic roles:	A/P	A+P or C+A/P	C+A+P
type of primary verb:	intransitive	transitive	
type of derived verb:	agentless passive,	causative	causative
	middle	of an intransitive	of a transitive

Morphological ambiguities

Causative suffix = stems of the Xth class

Passive suffix = stems of the IVth class

Decausativization of causatives in Sanskrit

karoti 'does' vs. kārayati 'causes to do' but also 'does'(Buddhist and epigraphic texts)

bhajati 'divides' vs. *bhājayati* 'causes to divide' **but also** 'divides' (mathematical meaning, in *Sūryasiddhānta*, a treatise in astronomy).

Reasons for decausativization in Sanskrit: morphological

- the suffix of the causative was also shared by a class of verbs without any causative meaning;
- the root vowel was not lengthened in all the roots;

Reasons for decausativization in Sanskrit:

semantic

- in the middle voice the causative meaning was very weak;
- the causative of an intransitive verb turns to be almost identical to a simple transitive, both in meaning and valence structure;
- the causative formation from a transitive verb can easily lose the valence of the causee agent, and therefore can lexicalize as a simple transitive.

Causatives in Pāli and Prakrits

outcome of the Sanskrit causative suffix:

disyllabic -aya- turned to a monosyllabic -e-

interchangeable thematic vowels:

vadeti vs. *vadati* 'speaks' (-*e*- instead of -*a*-)

mārati vs. *māreti* 'kills' (-*a*- instead of -*e*-, ← *mārayati* 'causes to die')

New causative suffix: -āpaya-, later -āpe-, later -āve-

Pāli

Bhikkhū [...] rukkhaṁ chindanti pi chedāpenti pi.monk-NOM tree-ACC cut-3pl.ACT and cut-3pl.CAUS and'The monks cut trees and have them cut'.

(Sutta Nipāta 3.3)

New causative suffix: -āpaya-, later -āpe-, later -āve-

Buddhist Hybrid Sanskrit

mārāpemi 'I cause to kill' = causative from *māreti* 'kill'

(Mahāvastu II.247.3)

Double causative suffix: -āpāpe-

Epigraphic Prakrit

likhāpāpita 'caused to be engraved' (participle)

(causative of *likhāpa*-, etymologically causative of *likh*- 'to write')

Pāli

thapāpeti 'orders to establish'

(causative of *thapeti* 'establish', etymologically causative of *tha* 'stay')

Loss of the middle endings

Involved both middle and passive diatheses

already in Epic Sanskrit, as a prakritism:

pacyati

cook-PASS-3sg.ACT

'is being cooked' (*Mahābhārata* 5.107.14)

(formally: a passive with an active ending, instead of middle)

Phonological reasons

 $[e], [o] \qquad \Rightarrow \qquad [I], [v]$

consequence for the verbal paradigm:

-te	\Rightarrow	-ti	
3sg.MID	\Rightarrow	3sg.ACT	
(etc)			

Passive in Prakrits

Morphology

suffix: -iyya- (Pāli), -ijja- (later Prakrits)

gemination of the root final consonant

Examples:

Prakrit *dijjaï* 'is given' (from the root $d\bar{a} + -ijja$ -)

Pāli vuccati, Prakrit vuccaï 'is said' (from the root vac + gemination)

Ambiguities of the passive in Prakrit

Oscillations in the geminatation:

Pāli suyyati and sūyati 'is heard'

Prakrit dīsaï and dissaï 'is seen, appears'

Roots ending in a geminate consonant *jujjaï* 'bounds' (*-jj-* from *-ñj-*)

Agentless passive in Pāli

Kumārikā paņņasālāya nisīditvā kandamūlādīni pacati. (active = transitive)
'Sitting in a tree-leaves shelter the girl cooks roots and tubers'.
vs.

Atha nam sā nisīda yāva paccati. (passive = inchoative intransitive)'Then she [says] to him «be seated while it is being cooked»'.

Overview

productivity:	productive	non productive (lexicalized forms) productive			
valences:	1=P	1=A	2=A+P		3=C+A+P
transitivity:	passive	intransitive		transitive	
causativity:	nor	n causative		caus	ative
				Ι	II
examples:		tițțhati		ţhapeti	<u></u> thapāpeti
(same root		'he stands'		'he puts'	'he causes to put'
per line)	diyyati		dadāti	dāpeti	
	'he is given'		'he gives'	'he causes to	
				give'	
	kayirati		karoti	kāreti	kārāpeti
	'he is done'		'he does'	'he causes to do'	'he causes to
				(> 'he rules,	build'
				builds')	
		patati		pāteti	
		'he falls'		'he causes to fall'	
column number:	1	2	3	4	5

Decausativization in Prakrits

- New causative formations were generated continuously (column 5).
- Old causative forms were continuously lexicalized and collapsed with simple transitive verbs (columns 4 and 3).
- In some cases, causatives derived from intransitive verbs merged with the original intransitive (because their causative suffix weakened semantically, or totally disappeared), so a first instance of lability was created (columns 3 and 2).
- With the decay of the middle voice, and the phonetic ambiguity of a part of passive forms, the valence decreasing formation became less and less productive (column 1).
- As a consequence, the agentive intransitive verbs tended to merge with the agentless ones, thus creating labile verbal forms (columns 2 and 1).

Lability in the Middle Indo-Aryan

jujjaï 'bounds', but also 'is bound' (Prakrit) *allīyati* 'comes', but also 'brings' (BHS, Prakrit) *bhañjati* 'breaks', but also 'becomes broken' (BHS) *muñcati* 'frees', but also 'becomes free' (BHS, Pāli) *vidhyati* 'shoots', but also 'flies' (BHS, Pāṇinīya)