

Disentangling the Vedic left periphery

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The Vedic Initial String/Left Periphery

• What is it?

• What patterns does it show?

• How should we analyse it?

• What are the consequences?



• As has long been observed, part of the Vedic sentence that exhibits the highest degree of syntactic regularity is the beginning, traditionally referred to as the "initial string". (Exx. 1-3 from Lowe 2014: 6)

(1) dyaúś ca tvā pṛthivī yajñíyāso nī hótāram sādayante dámāya
 Heaven and you Earth praiseworthy down priest set for-house
 "And Heaven and Earth, [and] the praiseworthy Gods set you as the house's priest" (3.6.3)

- (2) utá vā yó no marcáyād ánāgaso 'rāti vấ mártaḥ sānukó vṛkaḥ
 and or which_i us_j harm.SUBJ innocent_j evil or mortal_i eager wolf_i
 "Or the evil mortal or eager wolf who would harm us, innocent as we are..." (2.23.7)
- (3) divyấ ắpo abhí yád enam ấyan dựtim ná śúṣkam sarasĩ śáyānam
 Heavenly waters upon when him_i came leather like dry pool.LOC lying_i
 "When the heavenly waters poured down on him as he lay in the pool like dry leather..." (7.103.2)
- (4) prá vah sá dhītáye našat
 forth you it thought reach.INJ
 "May it reach you for insight" (1.41.5)



	"NEXUS"	1 = X́	2 = P	3 = Ý/Ď	4 = E	5 = Ď
(1)		dyaúś	са		tvā	
(2)	utá		vā	yó	no	
(3)		divyā́ ā́po		abhî yád	enam	
(4)		prá			vaḥ	sá

 \dot{X} = accented anything, P = clitic particle, \dot{P} = accented particle,

E = enclitic pronoun, D = stressed pronominal**or**preverb

à la Hock (1996)





• In Generative Grammar, this area maps onto what is called the Left Periphery.











- Implicit in all modern analyses of Vedic Sanskrit* is the equivalence of the initial string with the Left Periphery, to some extent. My own analysis builds on this equivalence.
- Some authors (e.g. Hale, 1996; Krisch, 2017) have hinted at a split-CP analysis to my knowledge the initial string hasn't been analysed in Rizzian cartography.
- As we shall see, I think it could explain a lot!

*bar perhaps Hock (1996)



What about clitics?

- That is the question!
- A key feature of the Vedic initial string are clitics that move to "Wackernagel Position", sometimes referred to as "second position"
- Not unitary phenomena
 - WL1: **Pronoun** clitics (*naḥ, vaḥ, me, te* etc.)
 - WL2: **Clausal** clitics (*ca*, *vā*, *u* etc.)
- Confusingly, WL2 occur **earlier** than WL1, cf. *dyaúś* $ca_{WL2} tv\bar{a}_{WL1}$

(Keydana 2011; Lühr & Zeilfelder 2011)



What about clitics?

• What characterises a clitic?

"[C]litic ... is an umbrella term, not a genuine category in grammatical theory. Umbrella terms are names for "problems", for **phenomena** that present "mixed" properties of some kind, not names for theoretical constructs." (Zwicky, 1994: xiii, emphasis mine)

- Some characteristics of clitics:
 - Prosodically "deficient", e.g. lacking a lexical accent
 - Restricted distribution, e.g. not allowed to occur sentence-initially (enclitics) or -finally (proclitics)
- Exceptions exist, but the interaction between these variables presents a conundrum: are clitic phenomena primarily **phonological** in nature, or **syntactic**?



Phonology vs Syntax in Generative Grammar (Minimalism)





Clitic phenomena are phonological: Hock 1989-1996

• The initial string consists of a phonological **template**

- All positions are optional, and all positions can "stack" except 1
- If all positions are all filled (rare) we get an alternation between accented and unaccented elements
- Syntax has **no** involvement the template is enforced (?) at PF



Clitic phenomena are phonological: Hock 1989-1996

• Issues

- Overgeneration: Preverbs never precede interrogative pronouns (Lowe 2014)
- Phonology is moving clitics and non-clitics alike: what is the motivation for this claim? (Keydana 2011)
- Unique?



- Critical of Hock, but still believes Vedic clisis is 100% phonological
- The **accented** elements of the initial string fit into this syntactic template (2011: 112):





- Hypothesis:
 - WL2 follows first phonological **word** (ω) \checkmark
 - WL1 follows first phonological **phrase** (φ) ?
- What constitutes a φ in Vedic? Keydana suggests we should follow Nespor & Vogel (2007:168, emphasis mine):

"The domain of ϕ consists of a *C*[litic Group]* which contains a **lexical** head (X) and all *C*s on its non-recursive side up to the *C* that contains another head outside of the maximal projection of X."

In this case, Keydana argues, the domain of the first φ of the Vedic sentence consists of the "lexical" head C⁰, and everything to its left.

*a disputed phonological category intermediate between ω and ϕ , consistingly maximally of ω + clitics. Confusingly, however, a Clitic Group need not exhibit any clitics, in which case it overlaps wholly with ω .







Issues

- This definition of φ does not, in fact, fit with Nespor & Vogel (2007: 168)
 "The intended interpretation of [this definition] is that in which only V, N, and A are considered lexical heads"
- Even if we were to accept it, note that it is directly analogous to a syntactic definition "The null hypothesis [is] that clitic placement is a PF phenomenon" (Keydana 2011: 122)
- Keydana essentially hypothesises that **WL1 move to C**⁰. And he is not the first to do so...



Clitic phenomena are (primarily) syntactic: Hale 1987-2007

- Hale (1987) was the first to treat Vedic clitic phenomena within a Generative framework (then Transformational grammar). Updated & adapted in Hale (1996, 2007).
- Hypothesis:
 - WL2 are generated sentence initially and move to second position by **Prosodic Inversion** (PI) (Halpern 1995).
 - WL1 are generated within IP and **move to C⁰**. Also subject to PI.
 - Hock's position 5 is a FocP generated under CP (Hale 1996 only)



Clitic phenomena are (primarily) syntactic: Hale 1987-2007





Clitic phenomena are (primarily) syntactic: Hale 1987-2007

Issues

- FocP under CP was "provisionally" named and not returned to in Hale (2007). So far the only attempt to account for Hock 5.
- Prosodic inversion à la Halpern (1995) not universally accepted as a possibility, but other options (e.g. Lowe, 2011, 2015) are available to prevent clitics from appearing sentence initially at PF.
- Still no disambiguation between "wh-words", demonstratives & preverbs.



- Still a primarily **syntactic** account of Vedic clisis
- Observation of the following patterns:
 - Relative pronoun yád has a different distribution from interrogative pronoun kím (e.g. the latter never follows a preverb in the initial string) → "wh-words" unhelpful category
 - yád patterns more closely with demonstrative pronoun tád
- Hypothesis:
 - *tád* is <u>optionally</u> enclitic (witness sandhi phenomena) \rightarrow yád is <u>optionally</u> enclitic
 - Important: c. 70% of tokens are clause-initial, so non-clitic
 - Preverbs are optionally **proclitic**



- *tad* as enclitic
 - Undergoes internal sandhi (i.e. retroflexion) when appearing "late" in the initial string, suggesting it forms a ω with its neighbour (examples from Lowe 2014: 21-23)
 (5) pári şyá suvānó akṣā índur ávye mádacyutaḥ around that pressed_i flows drop_i in_sheep's_wool moving_ecstatically "That drop having been pressed flows through the sheep's wool, moved in ecstasy" (9.98.3)
 - (6) agnís țá vísva bhúvani veda
 Agni those all worlds knows
 "Agnis knows all those worlds" (3.55.10)
 - Occurs 12 times with "unambiguously prosodically independent word"
 - 12 counter examples (10 if we discount disyllabic forms tásmād, tábhir)
 - Lowe explains these as simply non-clitic occurrences of *tád*



- *yad* as enclitic
 - No sandhi diagnostics as <y> is always maintained
 - But positionally, yád is equivalent to tád because both can be preceded by preverbs, while kím cannot, e.g.

(5) pári şyá suvānó akṣā índur ávye mádacyutaḥ
 around that pressed_i flows drop_i in_sheep's_wool moving_ecstatically
 "That drop having been pressed flows through the sheep's wool, moved in ecstasy"

(8) rātáhavyaḥ práti yáḥ śấsam ínvati receiving-oblation in-return who.REL teaching advances
 "...who, receiving the oblation, advances the teaching in return." (1.54.7)

(9) kó dámpatī sámanasā ví yūyod
 who.INT married-couple shared-mind asunder separates.SUBJ
 "Who would split up a married couple with a singular mind?" (10.95.12)



- Syntactic implications:
 - TopP maintained as in Hale (1996)
 - WL2 dealt with in PF (Lowe 2011, 2015)
 - Interrogatives in [Spec, CP] (sometimes relative pronouns)
 - WL1 in C⁰
 - Some relative pronouns, demonstrative pronouns and preverbs in C⁰, forming a clitic cluster with WL1.



(Lowe, 2014: 177)



- Issues
 - Internal sandhi ≠ (syntactic) clisis
 - Sandhi phenomena in RV are messy, but the kind of retroflexion monosyllabic forms of *tád* undergoes are found with verbs such as *sthā* and *stu*, without correlating with movement to C⁰
 - yád does show some differences in distributions vs. tád, such as regularly appearing before WL1, while tád in correlative clauses can appear
 after WL1:
 - (10) vísvam só agne jayati tváyā, dhánam yás te dadása mártyaḥ
 everything he_i O-Agni wins with-you, wealth who_i to-you has-given mortal_i
 "He wins everything with you, O Agni, the mortal who has bestowed wealth upon you." (1.36.4)
 - (11) yó mártyaḥ śíśīte áti aktúbhir, mấ naḥ sá ripúr īśata
 which_i mortal_i sharpens through nights, NEG us this rogue rule.INJ
 "The mortal who sharpens [his weapons] through the night, let not this [man,] rogue [that he is,] rule over us." (1.36.16)
 - Later Sanskrit preverbs \rightarrow prefixes, but *yad/tad* \rightarrow **full lexical words** (to this day!), usually sentence-initial.
 - Is this expected?



The Disentanglement - Proposal



- A combination of Hale (1996), Rizzi (1997) and Lowe (2014)
- The real troublemaker is the **relative pronoun**
- What happens next?
 - Confounding of movement → FocP vs. TopP
 - Simplification of initial string



The Disentanglement - Questions



- The test: a sentence containing...
 - 1. A topicalised XP
 - 2. A relative pronoun
 - 3. A preverb
 - 4. WL1
 - ...?
- What motivates the Foc⁰ clitic cluster?
- Where did *yad* (**yo-*) originate?



Consequences

- The relative pronoun in Vedic Sanskrit seems to find itself at a crossroads
 - It seems to have a distribution overlapping interrogatives and demonstratives
 - It is certainly (re)analysable as a clitic in many situations (?cf. Old Irish, Watkins 1963)
- What could this tell us about the situation in PIE?
 - The LP seems to "collapse" across the IE languages, usually allowing maximally one "topicalised" element rare whenever there is "wh-movement"
 - Could this "collapse" be linked to the shift from correlative → "plain" relative clauses in other language families?



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