**Parametrization by Underspecification: Germanic SVO vs. SOV**

**Background:** Following Epstein, Kitahara & Seely/EKS’s (2016) proposal that the asymmetric operation Pair Merge applies freely, EKS (2016), Sugimoto (2017) and Obata (2018) claim that the phase heads \(v\) and \(C\) can undergo External Pair Merge with the respective heads \(R\) and \(T\) to yield the amalgams \(\langle R, v \rangle\) and \(\langle T, C \rangle\), with interesting ramifications that they highlight. If Pair Merge is free, a natural expectation is that \((v, T)\) can likewise be formed (provided no independent reasons preclude this possibility), which this paper fleshes out (arguably, the logical option \(\langle C, R \rangle\) is not realized as \(R\) cannot function as an affix). It adopts the uniformity hypothesis (as in Miyagawa 2017) and assumes that the way of introducing (mode of Merger) a universal set of features is underspecified (cf., in spirit, Biberauer & Richards 2006).

**Proposal:** This paper suggests a macro-parameter within Germanic, dividing SVO- and SOV-type languages. It addresses the question whether or not G(erman) has a TP-projection (e.g. Haider 1993; Sabel 2000; Sternefeld 2007). The current analysis ties together several strands of research by recasting the verbal domain in G as follows: \(T\) is a syntactic affix – not a free standing head like E(nglish) \(T\) –, as is the verbal categorizer \(v\). The crucial syntactic claim of this paper is that together, they form an amalgam \((v, T)\) by External Pair Merge (EKS 2016). Let us refer to \((v, T)\) as INFL. INFL Set Merges with the structure \({\{DP, R\}\), where \(R=\)Root, giving \({\{\{DP\), R\}, \langle v, T\rangle\}, the DP being the internal argument IA. Since within INFL, \(T\) is affixed to \(v\), 0-marking of the external argument EA can proceed in the standard fashion by \(v\). Being affixed, INFL forces raising of \(R\) (cf. Chomsky 2015:9 on \(v\), resulting in the structure \{EA, \{\{IA, R\}, \langle R, INFL\}\}\}, where \(\langle v, T\rangle\) is affixed to the host \(R\). Thus \(G\) has a syntactically synthetic verbal complex, unlike \(E\) with its syntactically analytical verbal region \[vP T [v [ R … ]]\]. This naturally captures (a) the elusive absence of VP-ellipsis in \(G\) in that \(T\) is not a free standing morpheme to license it and (b) all finite verbs raise to \(C\) in root contexts in \(G\), whereas only finite auxiliary verbs raise to \(C\) in \(E\). Last, problems dissolve of accounting for why extraposed CPs in \(G\) adjoin to VP, forming \([V P [V P …] ]CP\), as evidenced by VP-fronting, but cannot surface between sentence-final \(V\) and the head of a (putative) TP-projection (cf. Haider 2010:61-63/67-68; pace Wurmbrand & Bobaljik 2005).

\(w\_\phi\)-features are borne by \(C\) (Chomsky 2008) undergo AGREE and are valued there (Chomsky 2017), and, I claim, syntactically remain there in \(G\). This is arguably the cause for a dependent Case pattern in \(G\) and for the possibility of impersonal passives (default 3SG inflection on the verb under failure of AGREE). \([w\_\phi\)] is lowered to the verbal amalgam in the morphological component in verb-final clauses, yielding the affix order \(V-T-\phi\) ([Du] schau-te-st – (you) look-pst-2SG). The labeling algorithm LA (Chomsky 2013) finds the amalgam \(\langle R, INFL\rangle\) and determines it to be the label in \{\{IA, R\}, \langle R, INFL\}\}, i.e. that set is a \(\langle R, INFL\rangle P\). A suggestive hypothesis is that the richness of the verbal inflection renders \(\langle R, INFL\rangle\) a projection inducer in the sense of Miyagawa et al (2019: 2): “When one member, say XP, bears a projection inducer as in \{XP-inducer, YP\}, X(P) projects.” Consequently, the LA finds \(\langle R, INFL\rangle\) in a full argument structure set \{EA, \{\{IA, R\}, \langle R, INFL\}\}\}, i.e. no labeling problem arises for EA-\(\langle R, INFL\rangle P\) and no EPP-raising of the EA is forced, cf. (1). This is unlike \(E\), in which EA-vP gives rise to a labeling problem, forcing the EA to vacate the vP as in (2) (cf. Chomsky 2013):

\[
(1) \quad [\langle R, INFL\rangle P [DP \text{ Kinder} ] [\langle R, INFL\rangle \text{ gespielt}] \text{ haben hier noch nie.}
\]

children\_nom played have here yet never

‘Children have never played here.’  

\(Haider (1990)\)

\[
(2) \quad \text{that (John) will (*)[dp John]} [vP \text{ read the book}]\]

(VP-fronting like in (1) will be understood as \([CP (R, INFL) P [C \langle R, INFL\rangle P]\], plausibly with phonological conditions dictating the pronunciation of low-VP-copy material, cf. Ott 2010, violating anti-locality, in line with a free Merge approach, cf. EKS 2016: fn. 6; pace Abels 2003
Two additional related consequences flow from this. First, scrambling does not induce a labeling problem, as the LA invariably finds the projection inducer (R, INFL) as in (3):

(3) weil [(R, INFL) [Eisbären]], natürlich alle ti mögen

‘Since, naturally, everybody likes polar bears.’

A conception within which scrambling is a free, untriggered option — modulo interface conditions — (cf. Struckmeier 2014, 2016, and the discussion in Haider 2010: 169 ff.) squares well with the current analysis. Secondly, assume that that-trace effects in E are deducible to a labeling failure due to the “weakness of [uφ]” on T in [C=that [a tp TP]] (Chomsky 2015). If so, we do not expect category-specific (though maybe information-structure specific, cf. Bayer & Salzmann 2013) that-trace effects in G. The reason: Given that T in G is not a [uφ]-bearing head in the syntax to begin with, no labeling failure can be obtained.

Extensions: G periphrastic verbs are morphological realizations of the syntactically synthetic verbal complex (R, INFL). I.e. this paper adopts the view that “periphrastic forms occupy cells in morphological paradigms” (Zwart 2017: 29), while denying that this argues against a syntactic nature of verb movement (pace op. cit.). Thus part of the amalgam must be featural specifications for [Point of View, POV: unmarked/anteriority] (“aspect,” cf. Wiltschko 2014: 7; Zwart 2017: 34) and the like. The combinatorial options between morphological and syntactic periphrasis and synthesis are summarized in the table with instantiated examples. It also highlights the problematic gap of combining syntactic synthesis with morphological periphrasis in the typology if Zwart’s adumbration were not realized.

A verb-final clause is shown in (4), where (4-a) is the underlying syntax, (4-b) the morphological component, and (4-c) the example ((4-c)): ‘…since everybody liked polar bears’:

(4) a. {C[uφ], {EA, {{IA, R}, ⟨R, ⟨v[POV: anterior], T[< tense: present]⟩⟩}}} 
   b. {C, {EA, {{IA, R}, ⟨⟨R, ⟨v[POV: anterior], T[< tense: present]⟩⟩, [uφ]⟩⟩}}
   c. weil alle Eisbären gemocht haben

(4-b) can undergo Internal Pair Merge to C in syntax (as i.a. recently argued by Blümel & Goto 2019), delivering the amalgam ⟨⟨R, INFL⟩⟩, C). I.e. a V1-structure is syntactically:

(5) ⟨⟨(R, INFL), C⟩⟩, {EA, {{IA}, ⟨R⟩}, (R, INFL)⟩⟩

With morphologically simplex verbs, the analysis is straightforward in that the finite verb spells out (R, INFL), C). The crucial morphological claim of this paper is that periphrastic verb forms under syntactic V-to-C are distributed realizations of auxiliaries in the C-complex on the one hand, and the residual verbal material in the ⟨R, INFL⟩-complex on the other, very much in the spirit of distributed deletion (Fanselow & Çavaroğlu 2002) of copies. Compare the analysis of a V1/V2-clause (6) with the verb final counterpart in (4) ((6-c): ‘Did everyone like polar bears?’):

(6) a. {⟨⟨(R, ⟨v[POV: anterior], T[< tense: present]⟩), C[uφ]⟩⟩, {EA, {{IA, R}, ⟨R, ⟨v[POV: anterior], T[< tense: present]⟩⟩⟩⟩}
   b. {⟨⟨(R, ⟨v[POV: anterior], T[< tense: present]⟩), C[uφ]⟩⟩, {EA, {{IA, R}, ⟨R, ⟨v[POV: anterior], T[< tense: present]⟩⟩⟩⟩}
   c. gemocht haben alle Eisbären
gemocht haben

[uφ] remains on C in the morphological component in (6-b), but not in (4-b). [uφ]-bearing C contextually forces only the amalgam’s finite part to be the morphological spell-out of the C-complex. A principle is at work, dictating that just as much morphological word material is pronounced in the upper copy so that movement is evidenced: the morphological part of the verb indicating finiteness (associated with [uφ]). The in-situ amalgam bears no [uφ]-set which is why the non-finite verbal material spells it out.