



*i.a.*) Two additional related consequences flow from this. First, scrambling does not induce a labeling problem, as the LA invariably finds the projection inducer  $\langle R, INFL \rangle$  as in (3):

- (3) *weil* [ $\langle R, INFL \rangle_P$  [*Eisbären*]<sub>i</sub> *natürlich alle t<sub>i</sub> mögen*]  
 since polar bears<sub>ACC</sub> naturally all like  
 ‘Since, naturally, everybody likes polar bears.’

*Lenerz (2001)*

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  $[u\phi]$ ” on T in  $[C=that [\underline{\alpha} t_{DP} TP]]$  (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  $[u\phi]$ -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  $\langle R, INFL \rangle$ . 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; in Zwart 2017: 34) and

Syntax \ Morph	Periphrasis	Synthesis
Morph	English auxiliary verbs	? → German verb cluster
Periphrasis	English auxiliary verbs	? → German verb cluster
Synthesis	English affix hopping	German simple verbs

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.  $\{C_{[u\phi]}, \{EA, \{\{IA, R\}, \langle R, \langle v_{[POV: anterior]}, T_{[Tense: present]} \rangle \rangle \}\}\}$   
 b.  $\{C, \{EA, \{\{IA, R\}, \langle \langle R, \langle v_{[POV: anterior]}, T_{[Tense: present]} \rangle \rangle, [u\phi] \rangle \}\}\}$   
 c. *weil alle Eisbären gemocht haben*  
 since everybody polar bears liked has-3pl

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

- (5)  $\{\langle \langle R, INFL \rangle, C \rangle, \{EA, \{\{IA, R\}, \langle R, INFL \rangle \}\}\}$

With morphologically simplex verbs, the analysis is straightforward in that the finite verb spells out  $\langle \langle R, INFL \rangle, C \rangle$ . 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  $\langle R, INFL \rangle$ -complex on the other, very much in the spirit of distributed deletion (Fanselow & Çavar 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.  $\{\langle \langle R, \langle v_{[POV: ant]}, T_{[T: pres]} \rangle \rangle, C_{[u\phi]}, \{EA, \{\{IA, R\}, \langle R, \langle v_{[POV: ant]}, T_{[T: pres]} \rangle \rangle \}\}\}\}$   
 b.  $\{\langle \langle R, \langle v_{[POV: ant]}, T_{[T: pres]} \rangle \rangle, C_{[u\phi]}, \{EA, \{\{IA, R\}, \langle R, \langle v_{[POV: ant]}, T_{[T: pres]} \rangle \rangle \}\}\}\}$   
 c. *gemocht haben alle Eisbären gemocht haben*

$[u\phi]$  remains on C in the morphological component in (6-b), but not in (4-b).  $[u\phi]$ -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  $[u\phi]$ ). The in-situ amalgam bears no  $[u\phi]$ -set which is why the non-finite verbal material spells it out.