

# Blocked Particle Verb Movement in German and Hungarian: A Unified Analysis<sup>1</sup>

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Two grammatical points:

- ✓ Particle verb
- ✓ Verb movement

Two languages:

- ✓ German (Germanic)
- ✓ Hungarian (Uralic)

My focus: **Failed** verb movement.

# Introduction: Particle Verb

Separable preverbal particles:

- homophonous with prepositional, adverbial, etc. elements;
- denoting directional, aspectual, etc. modification.

German

ein-brechen “in-break; break in”

ab-waschen “off-wash; wash up”

teil-nehmen “part-take; take part”

Hungarian

be-megy “go in”

fel-készül “up-prep; get ready”

agyon-dicsér “on brain-praise; adulate”

German also has inseparable verbal prefixes (which Hungarian lacks),  
e.g. verachten “despise”, erfragen “inquire”, befolgen “obey”

# Introduction: Verb Movement

GER: V-to-C movement under V2 requirement.

HUN: V-to-F movement in non-neutral<sub>[+Foc]/[+Wh]/[+Neg]</sub> environments.

- F = Foc in Horvath (1981, 1986), Bródy (1990, 1995), É. Kiss (1987, 2002), etc.;
- F = NN (Non-Neutral) in Olsvay (2000ab), Surányi (2002), É. Kiss (2008), etc.

In both languages verb movement only targets the verb, leaving the particle behind.

- (1) *Peter steigt; in den Bus ein* t<sub>i</sub>. (<ein-steigen “get on”)  
Peter climbs in the bus in  
“Peter gets on the bus.” (Zeller 2001: 55)
- (2) *János tegnap olvasta; fel* t<sub>i</sub> a verseit. (<fel-olvas “read out”)  
John yesterday read up his poems  
“John read out his poems yesterday (not today).” (É. Kiss 2002: 56)

# Phenomenon: Failed Verb Movement

Sometimes movement out of particle verb is blocked! —The verb stays after the separable particle in syntactic environments where verb movement should take place.

- German double-particle verbs (a subclass of “immobile verbs”)
- Hungarian infinitival clauses

(3) a. \* *Du meldest uns vor-an* / \**anmeldest uns vor* / \**voranmeldest uns*.  
you register us pre-on

Intended: “You preregister us.”

b. ... *wenn du uns vor-an-meldest*.  
if you us pre-on-register

“... if you preregister us.”

(Haider 2010: 60)

(4) *Nem tudtam **kit** meg-hív-ni* / \**hív-ni meg*.  
not knew.1SG whom PFV-invite-INF

“I didn’t know whom to invite.”

(É. Kiss 2002: 202)

# Goal: A Unified Analysis

- ✓ Examine the phenomena in more details.
- ✓ Specify the common reason(s) for the German and Hungarian cases.
- ✓ Provide a formal analysis within the Minimalist framework.

# German “Immobile Verbs”

- A group of complex verbs that only appear in verb-final clauses.
- =movement-resistant (Fortmann 2007)/C<sup>0</sup>-phobic (Ahlers 2010) verbs
- 2 subclasses: **Complex-Backformation (CB)** verbs & **Double-Separable-Particle (DSP)** verbs

**CB:** derived from a complex structure of a different lexical category.

- *bausparen* “building-save” < (*das*) *Bausparen* < *bau* + (*das*) *Sparen* < *sparen*;
- *gasbeheizen* “heat with gas” < *gasbeheizt* < *gas* + *beheizt* < *beheizen*.

(cf. Wurzel 1998)

e.g. *\*Spart er bau?/\*Bauspart er?* vs. *Er will bausparen./... weil er bauspart.*

“Does he building-save?” “He wants to building-save/because he building-saves.”

(cf. Vikner 2005)

**DSP:** formed with two separable preverbs.

- *vor-an-melden* “pre-on-register; preregister”;
- *mit-aus-drucken* “with-out-print; print out jointly”.

(cf. Haider 2010)

## Complex-Backformation (CB) verbs

*bauchreden* “ventriloquize” (< *das Bauchreden*), *bauchtanzen* “belly-dance” (< *das Bauchtanzen*), *schutzimpfen* “inoculate” (< *die Schutzimpfung*), *wettrennen* “race” (< *das Wettrennen*), *uraufführen* “premiere” (< *die Uraufführung*), *rückfragen* “query” (< *die Rückfrage*), *bruchrechnen* “do fractions” (< *das Bruchrechnen*), etc.

## Double-Separable-Particle (DSP) verbs

*vor-an-kündigen* “pre-on-announce; preannounce”, *vor-ein-stellen* “pre-in-set; preset”, *mit-ein-steigen* “with-in-climb; get on together”, *durch-ab-fertigen* “through-off-make ready; check through”, etc.

(cf. Ahlers 2010, Haider 2010, McIntyre 2002)

👉 There are more CB verbs than DSP verbs.



# DSP Verbs as a Separate Subclass

Some DSP verbs have corresponding complex nouns, e.g.

<i>voranmelden</i>	—	<i>die Voranmeldung</i>	“pre-registration”
<i>vorankündigen</i>	—	<i>die Vorankündigung</i>	“pre-announcement”
<i>voreinstellen</i>	—	<i>die Voreinstellung</i>	“presetting, default”

Two reasons to keep DSP as a separate subclass:

- 1 There are still DSP verbs without complex noun counterparts.

*“The crucial point is that this verb format is productive... there is no room for the kind of doubts raised... based on verbs that arise through backformation.”* (Haider 2010: 60)

- 2 The role of backformation needs to be synchronically formulated.

*“The synchronic relevance of backformation is sometimes questioned (see e.g. Aronoff 1976, Becker 1993).”* (McIntyre 2002: 4)

Previous approaches:

- Demands of two preverbs cannot be simultaneously satisfied (Haider 1993, 2010).
- Conflicting separability requirements in backformation (Zeller 2001).
- Structural uncertainty between  $V^0$  and  $V'$  (McIntyre 2002) or  $V^*$  (Vikner 2005).
- Unqualified target for V-to-C movement ( $V^*$  for Fortmann 2007; complex  $V^0$  for Ahlers 2010).

👉 Backformation indeed has a role to play, but this role needs to be incorporated in the general structure of complex verbs.

# German Immobile Verbs: More Empirical Facts

## #1 There is much variation from speaker to speaker.

- Some verbs are immobile for some people and mobile for others.
- ✓ *notlanden*: mobile (Eisenberg 1998), immobile (Gallmann 1999) (cf. Vikner 2005)
- ✓ 40% among 50 people find *voranmelden* fully mobile (and separable), while another 50% strongly reject such usage. (cf. Freywald & Simon 2007)
- ✓ Acceptance score (0–6) of *bausparen*: V2~4.3, V-final~5.1. (ibid.)

— Some people reject movement more strongly than others.

- (5) a. *Es ist die Oper, die man in Dresden im Jahr 1845 uraufführte.*  
“It is the opera that was premiered in Dresden in 1845.”
- b. *\*/??Man uraufführte den Tannhäuser in Dresden im Jahr 1845.*  
“Tannhäuser was premiered in Dresden in 1845.” (Ahlers 2010: 17)

*“Which class a given complex verb belongs to depends on many factors which vary from speaker to speaker, including how frequently it is used.”*

—Vikner (2005: 18)

## #2 There are also mobile derived complex verbs.

- (6) a. Die Kinder *buchstabierten* das Wort „Diplomarbeit“. (< der Buchstabe)  
“The children spelled the word DIPLOMARBEIT.”
- b. Erna *ohrfeigte* Emil. (< die Ohrfeige)  
“Erna slapped Emil.” (Ahlers 2010: 49)

*langweilen* “bore”, *frühstückten* “breakfast”, *handhaben* “handle”, *fachsimpeln* “jargonize”

Ahlers (2010): mobile vs. immobile derived/backformed complex verbs.

- Inflection: mobile (always regular), immobile (follow base verb);  
e.g. *handhaben* → *handhabte*/\**handhatte*, *bergsteigen* → \**bergstiegte*/*bergstieg*.
- Attachment of *ge-*: mobile (to entire verb), immobile (only to base verb);  
e.g. *gehandhabt*/\**handgehabt* vs. \**gebergstieg*/\**gebergstiegen*/*berggestiegen*.

👉 Immobile verbs are internally headed.

## #3 Only the base verb is immobile.

— The preverb is occasionally mobile.

- (7) a. *MIT ist er ein-gestiegen, nicht MEAT.*  
with is he in-climbed not meat  
“He has got on TOGETHER, not TOOGETHER.”
- b. *BAU hat er gespart, nicht PAUL.*  
building has he saved not Paul  
“He has BUILDING-saved, not PUILDING.”

— The non-finite verb forms are also mobile.

- (8) a. *Verschmäht hat heute eine Maus den Käse.*  
disdained has today a mouse the cheese  
“A mouse has disdained the cheese today.”
- b. *Aufstehen würde er nicht.*  
to stand up would he not  
“He would not stand up.”

(Haider 2010: 1–2)

## #4 Spelling matters!

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▶ cont.

<i>vor-</i>	<i>mit-</i>
<i>voranmelden</i> / <i>*vor anmelden</i>	<i>miteinsteigen</i> / <i>mit einsteigen</i>
<i>vorankündigen</i> / <i>*vor ankündigen</i>	<i>miteinbeziehen</i> / <i>mit einbeziehen</i>
<i>vorabdrucken</i> / <i>*vor abdrucken</i>	<i>mitausdrucken</i> / <i>mit ausdrucken</i>

(9) a. \* *Peter steigt in den Bus mit-ein.*  
Peter climbs in the bus with-in

b. *Peter steigt in den Bus mit ein.*  
Peter climbs in the Bus with in  
“Peter gets on the bus together.”

(10) a. \* *Peter druckt die Namen mit-aus.*  
Peter prints the names with-out

b. *Peter druckt die Namen mit aus.*  
Peter prints the names with out  
“Peter prints out the names jointly.”

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- They resist V2 movement, but can appear in various forms in sentence-final position.
- Two subclasses: Complex-Backformation (CB) and Double-Separable-Particle (DSP).
- Word-building method is relevant but needs synchronic formalization.
- Inter-speaker variation suggests multiple underlying structures.
- Immobile verbs partially resemble separable particle verbs.
- Category and categorial change may turn out to be crucial.
- Spelling variation may reflect structural variation.



# Hungarian Infinitive Particle Verbs

Non-neutral environments: [+Focus], [+Wh], [+Neg]. (cf. É. Kiss 1987, 2002)

- (11) a. *János csak Mária-val beszélt meg az ügyet.*  
John only Mary-with spoke.3SG PFV the matter  
“John discussed the matter only with Mary.”
- b. *János szeretné csak Mária-val beszél-ni meg/meg-beszél-ni az ügyet.*  
John would love only Mary-with speak-INF PFV the matter  
“John would like to discuss the matter only with Mary.” [+Focus]
- (12) a. *Kit hívtál meg?*  
whom invited.2SG PFV  
“Who did you invite?”
- b. *Nem tudtam kit meg-hív-ni/?hív-ni meg.*  
not knew.1SG whom PFV-invite-INF  
“I didn’t know whom to invite.” [+Wh]
- (13) a. *Nem buktam meg.*  
not failed.1SG PFV  
“I didn’t fail (the exam).”
- b. *Szeretnék nem meg-buk-ni/?buk-ni meg.*  
I would love.1SG not PFV-fail-INF  
“I would like not to fail.” [+Neg]

Previous approaches:

- Optional verb movement based on feature strength (Bródy 1990, 1995).
- Dual categorial features [+V]/[+N] in infinitive marker *-ni* (É. Kiss 1987, 2002).
- PF phenomenon relevant to VM's phonological weight (Koopman & Szabolcsi 2000).

👉 I will further develop É. Kiss's approach.

## #1 Non-neutral strength might be relevant.

- (14) a. *Szeretnék nem meg-buk-ni/?buk-ni meg.*  
I would love.1SG not PFV-fail-INF  
“I would like not to fail.”
- b. *Szeretnék most az egyszer nem meg-buk-ni/buk-ni meg.*  
would love.1SG now the once not PFV-fail-INF  
“I would like not to fail **for this once.**”
- (15) a. *János szeretné csak Mária-val meg-beszél-ni az ügyet.*  
John would love only Mary-with PFV-speak-INF the matter  
“John **would like** to discuss the matter only with **Mary.**”
- b. *János szeretné csak Mária-val beszél-ni meg az ügyet.*  
John would love only Mary-with speak-INF PFV the matter  
“John **would like** to discuss the matter only with **Mary.**” [wider scope]

👉 The generally preferred order is still no inversion.

## #2 Other non-finite forms of particle verbs normally invert.

### (16) Adjectival Participle

- a. *Nem tudtam, hogy ez a fiú feltétlenül meg-hív-andó.*  
not knew.1SG that this the boy definitely PFV-invite-PTCP  
“I didn’t know that this boy was definitely to be invited.” (neutral)
- b. *Nem tudtam ki hív-andó meg/\*meg-hívandó.*  
not knew.1SG who invite.PTCP PFV  
“I didn’t know who was to be invited.” [+Wh]
- c. *Nem tudtam ki nem hív-andó meg/\*meg-hívandó.*  
not knew.1SG who not invite.PTCP PFV  
“I didn’t know who was not to be invited.” [+Neg]
- d. *Nem tudtam, hogy ez a fiú hívandó meg/\*meg-hívandó.*  
not knew.1SG that this the boy invite-INF PFV  
“I didn’t know that it was **this boy** who was to be invited.” [+Foc]

## (17) Adverbial Participle

- a. *Máriát meg-hí-va János sok pénzt költött.*  
Mary.ACC PFV-invite-ing John much money.ACC spent  
“Inviting Mary, John spent a lot of money.” (neutral)
- b. *Kit hí-va meg/\*meg-hí-va költött János sok pénzt?*  
whom invite-ing PFV spent John much money.ACC  
“Inviting whom did John spend a lot of money?” [+Wh]
- c. *Máriát nem hí-va meg/\*<sup>✓</sup> meg-hí-va János kevesebb pénzt költött.*  
Mary.ACC not invite-ing PFV John less money spent  
“Not inviting Mary, John spent less money.” [+Neg]
- d. ***Máriát** hí-va meg/\*<sup>?</sup> meg-hí-va János sok pénzt költött.*  
Mary.ACC invite-ing PFV John much money spent  
“Inviting **Mary**, John spent a lot of money.” [+Foc]

# Hungarian Infinitive Particle Verbs: Summary

- They generally assume non-inverted order in non-neutral contexts.
- Their (alleged) dual-category property might be relevant.
- Strength of non-neutral reading might be relevant.
- Participles do not pattern with infinitives in this respect.

Two cases of blocked particle verb movement:


<b>German</b>	<b>Hungarian</b>
DSP	infinitive
a subclass of “immobile verbs”	a subtype of non-finite verb form
resist V2 movement	resist Prv-V inversion
inter-speaker variation → more than one possible structure	
<b>category</b> change is relevant	dual <b>category</b> is relevant

## A theory of complex verb formation (Song 2016)

Complex verbs of the form Preverb-Verb (Prv-V) have a basic underlying structure  $(R_F-)\text{Akt-v}_X\text{-R}$ . ( $\text{Akt-v}$  = complex verbalizer  $\subseteq$  big V)

$$F=[\text{AKT}^{\text{VAL}}], \text{Akt}=\{[\text{AKT:}\_\_], [uV]\}, v=[iV]$$

Some assumptions:

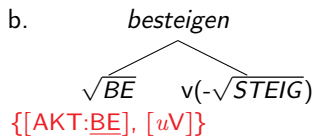
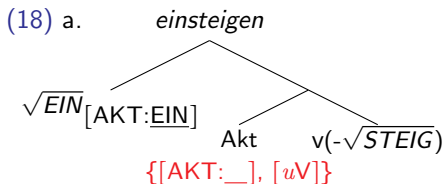
- **Syntax:** single generative engine (DM), multiple workspaces (Fowlie 2013).
- **Root:** born bare (Alexiadou 2014), invisible to syntax (Chomsky 2013), must be equipped with some F (e.g. a category).
- **Presyntactic feature bundling:** not a generative operation, only takes **individual** Fs/Roots as input. 
- One categorizer can only take **one** Root-modifier (cf. Marantz 2013); Akt adds an extra one via the  $[\text{AKT}]-[uV]-[iV]$  mediator.
- **Preverbs:** special v-adjuncts on primary plane (cf. Oseki 2015).
- **Complex verb formation:** a categorization-level issue.



# Separable vs. Inseparable Verbs

The minimal distinction: the locus of  $\{[AKT], [uV]\}$ .

— separable (in null Akt-head), inseparable (directly in the extra Root).



Notes:

- Which preverbs are prebundled with  $[uV]$  is a historical issue.
- Each  $[AKT]$  value is a fixed modification of  $v$  (there are not too many).
- The  $[V]$  category can be of different semantic flavors.
- German inseparable verbs only represent one type of inseparability (Song 2016).

# Structuring German Immobile Verbs

(19)  $v[\dots [X-v [\dots [Y-v \dots ]]]]$

- Lexical categorizers are phase heads. (Marantz 2001 et seq.)
- Initial categorization = adjunction, Recategorization = complementation.
- The “re-verbalizer” blocks the initial verbalizer in situ.

(20) a.  $v[\dots [Akt-v [\dots [Akt-v \dots ]]]]$  (DSP verb)

b.  $v[\sqrt{MIT} [Akt-v [\sqrt{EIN} [Akt-v-\sqrt{STEIG} ]]]]$

(21) a.  $N[\sqrt{BAU} [F-n-\sqrt{SPAR} ]]$  (Complex Noun)

b.  $v[\sqrt{BAU}_i [Akt-v [t_i [F-v-\sqrt{SPAR} ]]]]$  (CB verb)

Notes:

- F is to *n* what Akt is to *v*.
- $\sqrt{BAU} = \{[F], [uN]\}$ . ([F] and [AKT] may be the same feature)
- The structure in (21b) is similar to that in Fortmann (2007).

# Explaining Empirical Facts

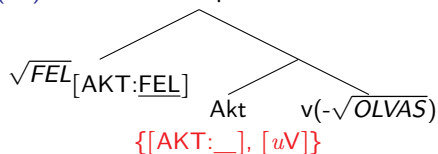
- Only the base verb is “truly” immobile. ▶
- The preverb is either not in the phase domain or technically able to escape it.
- e.g. [ $\sqrt{BAU}$ ]<sub>i</sub> [Akt-*v* [<sub>t<sub>i</sub></sub> [F-*v*- $\sqrt{SPAR}$  ]]]]
- When the outer preverb of a DSP verb is spelled separately, the complex verb becomes mobile (and separable). ▶
- The separately spelled preverb is a real adverb.
- e.g. *mit*<sub>ADV</sub> [ $\sqrt{EIN}$  [Akt-*v*- $\sqrt{STEIG}$  ]]
- There are also (inseparable) mobile derived verbs. ▶
- These involve initial verbalization, e.g. [*v*- $\sqrt{FRÜHSTÜCK}$ ], [*v*- $\sqrt{OHRFEIGE}$ ].
- Mobile derived verbs are generally more idiomatic. (Fortmann 2007)

# Hungarian Particle Verbs

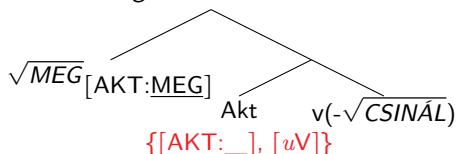
I analyze Hungarian separable verbs also with the Akt-v structure.

- Akt adds an extra Root modifier to v.
- Hungarian preverbs all have Roots (though some are more bleached).

(22) a. *felolvas* “up-read”



b. *megcsinál* “PFV-do”



👉 Infinitive morphology: V + *-ni*, e.g. *felolvasni*, *megcsinálni*. ▶

- No clear recategorization structure (e.g. CB, DSP).
- Prv-V inversion is blocked, but the complex verb is mobile as a whole.

# Deciphering Infinitive Particle Verbs

## Assumptions:

- *-ni* has V/N dual categories. (É. Kiss 1987, 2002)
- Feature bundles have internal structure. (cf. Biberauer *to appear*)
- External Merge involves featural interaction. (e.g. Matushansky 2006)

**Hypothesis:** The dual categorial features in *-ni* are structured.

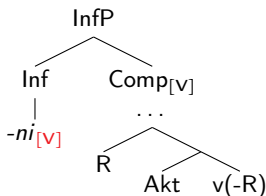
(23) a. Infinitive marker

$$-ni = \left\{ \begin{array}{l} [+V] \\ [+N] \end{array} \right\}$$

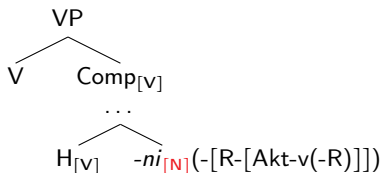
b. Nominalizer

$$-ni = \left\{ \begin{array}{l} [+N] \\ [+V] \end{array} \right\}$$

(24) a.



b.



# Explaining Empirical Facts

- There is inter-speaker/context-specific variation.
  - Feature bundling is pre-syntactic.
  - Strong NN context requires [+V]-salient *-ni*. ▶
  - Infinitives have argument structure and left periphery. (É. Kiss 2002)
    - When adjoined to [+N]-salient *-ni*, the entire particle verb is out of primary plane.
    - The verbal Extended Projection is *-ni*'s.
    - Featural make-up of *-ni*: [+N]-salient~{[iN], [iV]}, [+V]-salient~{[uV], [uN]}.
  - Inversion failure does not happen to participles. ▶
    - Possibility 1: Predicative participles are (almost) always [+V]-salient (over [+A]).
    - Possibility 2: Participles do not involve lexical (re)categorizer at all (no [A]).
    - ✓ Anyway Hungarian infinitives and participles are very different.

# Conclusion: Blocked Particle Verb Movement

**Solution: Lexical categorizers are phase heads.**

Four subclasses of Prv-V complex verbs:

Subclass	Structure	Example
Separable	$[R_{[AKT:F]} [Akt_{[AKT: \_]}-v(-R) ] ]$	GER/HUN separable verbs
Inseparable	$[R_{[AKT:F, [uV]]}-v(-R) ]$	GER inseparable verbs
Immobile	$[R [Akt-v [R [Akt-v(-R) ] ] ] ]$	GER immobile verbs
Mobile-as-whole	$[v(-[R [F-n(-R) ] ] ) ]$	GER mobile derived verbs
	$[n(-[R [Akt-v(-R) ] ] ) ]$	HUN infinitive verbs

Two types of recategorization:

- as complementation [primary plane] - immobile;
- as adjunction (separate plane) - mobile as a whole.

*Why can't the base verb escape the recategorizer's phase domain? . . .*

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