1 Introduction

Inflectional affixes are sensitive to morphological properties of the stems of the verbs they attach to. Therefore Bierwisch (1987) suggested that the inflectional material is combined with both the verbal stem of simplex verbs and the verbal stem of particle verbs. He argued that this leads to the bracketing paradox in the case of particle verbs since the semantic contribution of the inflectional information scopes over the semantic contribution of the complete particle verb. This paradox will be discussed in section 2.1. In section 2.2, I will discuss nominalizations and adjective derivation, which are also problematic because of various bracketing paradoxes. In section 3 I will suggest a solution to these apparent paradoxes that assumes that inflectional and derivational prefixes and suffixes always attach to a form of a stem that contains the information about a possible particle already, but without containing a phonological realization of the particle. The particle is a dependent of the verb and is combined with its head after inflection and derivation. With such an approach no special mechanisms for the analysis of particle verbs are necessary.

2 The Phenomena

2.1 Inflection

Both particle and prefix verbs always have the same inflection class as their base verb. This means that the inflectional suffix has to have access to the morphological features of the stem. This is accounted for easily with a structure like the one in figure 1a. Bierwisch (1987, p. 163) argues that the meaning of the verb aufhören (‘end’) is not
transparent with regard to the combination of \textit{auf} and \textit{hör-}, but combinations of the form \textit{auf-hör-t-est} and \textit{auf-ge-hör-t} are transparent with regard to the combination of the meaning \textit{end} and the conceptual content of the inflectional affixes. He claims that one needs structures like the one in figure 1b because of this, and hence he has a structural paradox. Bierwisch (1987, p. 165) and Stiebels (1996, p. 46) suggest rebracketing mechanisms to derive the structure in figure 1a from the one in figure 1b. However, this paradox is not a real one, since the situation with idioms is similar as far as compositionality is concerned.\footnote{Bierwisch gives examples from compounding that suggest that rebracketing may be needed and, of course, there are famous examples of a similar kind from English; but for the cases at hand a rebracketing mechanism is not necessary as will be shown in section 3.1.} It is not justified that a head that is part of an idiomatic expression is combined with all parts of the idiom before it is inflected. So one can stick to the structure in figure 1a; assuming that the semantics of non-transparent particle verbs is constructed parallel to the semantics of idioms.

For transparent particle verb combinations I also assume the structure in figure 1a. I assume that the inflectional affix attaches to a stem that contains the information that it will combine with a particle, i.e., a stem that is subcategorized for a particle. This stem has the meaning of the complete particle verb combination although the exact meaning is not fully instantiated until the particle combines with the (inflected) stem. Since the semantic information that will be contributed by the particle is accessible in the stem entry already, the ending can scope over it.

### 2.2 Derivation

Similar bracketing paradoxes seem to arise in derivational morphology. Some derivational affixes are sensitive to the argument structure of the head they combine with and some others are sensitive to the semantics of the heads they combine with, some affixes
are sensitive for both kinds of properties. In sections 2.2.1 and 2.2.2, I will examine the relevant forms of nominalization and adjective formation.

2.2.1 Ge- -e-Nominalizations

The Ge- -e-nominalization is the only discontinuous or combinatorial noun derivation in German, consisting of the prefix Ge- and the suffix -e. Ge- -e-derivation is quite productive for transitive as well as for intransitive simplex verbs. Deverbal Ge- -e-nouns have the meaning of ‘to V constantly/repeatedly’ and usually they have the connotation that the constant V-ing is unpleasant.

Particle verbs also allow for Ge- -e-derivation. It is interesting that the ge- separates particle and base verb: Herumgerenne (‘repeated aimless running’). Ge- -e-nominalizations of particle verbs with the particle herum (‘around’) follow a productive pattern and are quite frequent.

As Lüdeling (2001, p. 106) notes, the interesting thing about these Ge- -e-nominalizations is that there again seems to be a bracketing paradox: If one combines the stem renn- with Ge- and -e one gets Gerenne, which means ‘repeated or constant running’, or more technically ‘repeated running events’. However, Herumgerenne means ‘repeated instances of aimless running events’. The ‘aimless’ part of the meaning is contributed by herum. This meaning of Herumgerenne would be expected if the Ge- -e were combined with the whole particle verb combination.

Lüdeling considers for a moment the introduction of an abstract predicate for the form of rennen, but dismisses this suggestion since, according to her, this solution would not extend to listed particle verb combinations. I do not understand this argumentation, since the non-transparent forms are always the unproblematic ones in terms of scope relations. The particle verb selects the particle and the complete semantics is represented at the entry of the verb. Lüdeling suggests the analysis in figure 2b. It

\[
\begin{array}{c}
\text{a. N} \\
\text{P} \\
\text{herum} \\
\text{V} \\
\text{renn} \\
\text{b. N} \\
\text{P} \\
\text{V} \\
\text{herum} \\
\text{renn} \\
\end{array}
\]

Figure 2: Alternative Structures for Herumgerenne

is unclear how the prefix ge- is supposed to get in-between the particle and the verb without the assumption of rebracketing. In what follows I will assume the structure in figure 2a. I assume that the stem renn- that is used to derive Herumgerenne already contains the information that it combines with a particle, although the exact semantic and syntactic contribution of the particle is still underspecified. The Ge- -e-nominalization can therefore access the semantic contribution that will be instantiated by the particle and the right scope relations can be established.
2.2.2 Adjective Derivation with -bar

-bar-derivation applies to transitive or ditransitive verbs that have an accusative object. The logical subject of the verb is suppressed and the accusative object is promoted to the subject of the adjective. There are also a few -bar-adjectives like *brennbar* (‘flammable’) that have an intransitive base verb, but these are listed in the lexicon Riehemann (1998a) and not derived by the productive rules. The -bar-suffix adds a modal meaning, usually possibility, but sometimes also necessity.

Particle verb combinations that are the result of a productive process can take part in -bar-derivations as is shown by (1).

(1) Die Geschäfte müssen **anfahrb** pub bleiben.  
the shops must PART (to).drivable remain  
‘The shops must remain accessible by car.’

The particle an combines with intransitive verbs and licenses an additional argument.

(2) a. Er fährt.  
he drives  
b. * Er fährt die Geschäfte.  
he drives the shops  
c. Er fährt die Geschäfte an.  
he drives the shops towards  
‘He drives towards the shops.’

As (2b) shows die Geschäfte is not an argument of the base verb fährt. This NP is licenced in the particle verb construction only. The pattern is productive.

This seems to result in another bracketing paradox: There are particles that only combine with intransitive verbs and add another argument. On the other hand, -bar combines only with transitive verbs productively. If one assumes the structure in figure 3a with fahr- being the stem of the intransitive version of fahren one has to explain why -bar can combine with intransitive verbs. Furthermore the modal operator that is contributed by -bar scopes over the complete meaning of the particle verb. In the light of pairs like (3), the structure in figure 3a seems implausible, since there is no way of deriving the meaning of the second word from the meaning of the first:

(3) a. **schaft** (‘do-able’) → wegschaftbar (‘possible to get rid of’, ‘disposable’)
   b. **greif** (‘reachable’) → angreifbar (‘possible to be attacked’)
   c. **stell** (‘possible to stand/set up’) → darstellbar (‘possible to be represented’, ‘representable’), einstellbar (‘possible to set’, ‘employable’), herstellbar (‘possible to manufacture’), vorstellbar (‘imaginable’)

Even worse, a bar-adjective without particle does not exist for the examples in (4).

(4) a. * guckbar → anguckbar (‘possible to look at’)

---

2(Bierwisch, 1987, p. 163)
b. *gleichbar $\rightarrow$ ausgleichbar (‘possible to even out’)
c. *weisbar $\rightarrow$ nachweisbar (‘possible to prove’)

At first glance figure 3b seems to be the only option. For reasons of uniformity I will assume the structure in figure 3a. While at first glance this may seem to be problematic

3 The Analysis

In (Müller, 2000a, b, 2002) I discussed constituent order data that showed that particles behave like other elements that take part in predicate complex formation (verbal complexes, subject and object predicative constructions, and resultative constructions). I therefore suggested a complex predicate analysis that uses argument attraction techniques which were introduced into the HPSG framework by Hinrichs and Nakazawa (1989). I followed (Chung, 1993; Rentier, 1994; Müller, 1997), who suggested using a separate valence feature for the selection of dependents that are part of the predicate complex. So particles are selected by their head via the valence feature VCOMP. Verbs that can function as heads in productive particle verb combinations are licensed by the following lexical rule:

\[ \text{P} \rightarrow \text{A} \rightarrow \text{V bar} \]

\[ \text{an} \rightarrow \text{V bar fahr} \]

\[ \text{P} \rightarrow \text{V} \rightarrow \text{bar} \]

\[ \text{an} \rightarrow \text{V fahr} \]

Figure 3: Alternative Structures for anfahrbar (‘reachable by car’)

for the reasons mentioned above, it is not in constraint-based theories. I assume that the stem in figure 3a contains a slot for the particle that will be added in a later step. The valence and the semantics of the whole combination is represented at the stem so that -bar may access it.

3 Tilman Höhle suggested using the same rule for the combination of particle and verb as for the verbal complex in his 1976 dissertation. The chapter of his dissertation that deals with this issue was published as Höhle (1982). Höhle deals mainly with morphological problems. The syntactic properties of the particle verb constructions are not explored in detail.
The rule applies to all verbs with an empty \textit{VCOMP} value. The output of the rule is a verb that selects a particle. Whether the resulting verb is actually used in an analysis depends on the presence of a particle that can be combined with this verb. The valence requirements of the output verb are determined by the particle: The \textit{SUBCAT} and \textit{SUBJ} value of the particle attracted by the output verb. The rule licenses verbal stems that select particles that modify the base verb semantically. This is indicated by the structure sharing of the \textit{MOD} value of the particle and the \textit{SYNSEM} value of the input verb \textit{1}.\footnote{I follow (1992; 1995) in assuming that \textit{SUBJ} is a head feature.}

Particles like \textit{los} in \textit{losrennen} (‘start to run’) and \textit{an} in \textit{anfahren} (‘drive towards sthg.’) have the form of adjuncts. They select their head via \textit{MOD}. The entry for \textit{los} is shown in (6).

\begin{itemize}
  \item \textbf{(5) Lexical Rule for Productive Particle Verb Combinations:}
  \end{itemize}

\begin{itemize}
  \item \textbf{(6) los (aspectual marker):}
  \end{itemize}

\footnote{This rule is in a certain way similar to the adjunct introduction lexical rule that van Noord and Bouma (1994) use: An adjunct is introduced into a valence feature list.}
As an example, consider what happens, if the lexical rule applies to the entry of the base verb *rennen* (`to run`).

(7) *renn*- (`run`):

```
<table>
<thead>
<tr>
<th>CAT</th>
<th>SUBCAT</th>
<th>VCOMP</th>
<th>CONT</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEAD</td>
<td>SUBJ</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SUBJ</td>
<td>NP[STR]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

The result is shown in (8). This entry has to be inflected in order to be usable in syntax. Instead of undergoing inflectional rules, (8) may be input to derivational rules.

(8) *renn*- (`run` + subcategorized for particle):

```
<table>
<thead>
<tr>
<th>PHON (renn)</th>
<th>SYNSEM</th>
<th>LOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEAD</td>
<td>SUBJ</td>
<td></td>
</tr>
<tr>
<td>SUBJ NP[STR]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
```

In the following I will use the entry in (8) to explain the syntactic combination of particle and verb. When the inflected form of the entry in (8) is combined with the particle in (6), the structure under CAT|VCOMP gets instantiated in the following way:
The information that was added by the particle is the structure sharing \[\text{between the semantics of the original base verb that was the input to the lexical rule (5) and the argument of the relation contributed by the particle. The semantics of the combination of } rennen \text{ and } los \text{ is taken from the adjunct (8) and is also represented as the semantics of the complete combination. The \text{SUBJ value of } los \text{ is raised to the \text{SUBCAT list of rennen. Since } los \text{ does not have a subject, the combination of } los \text{ and } rennen \text{ remains intransitive. The result of combining the particle with the verb is shown in (10).}}\]

\[\text{(9) } \text{rennen ('run' + particle } los \text{ result of the unification in VCOMP):} \]

\[\text{(10) } \text{rennen ('run' + Particle } los \text{):} \]

If one combines (8) with the \text{an} that is used in \text{anfahren} instead of \text{los} one gets a different result, since the lexical entry of this \text{an} differs from the entry for \text{los} in that it has an element on \text{SUBJ} and therefore introduces an additional element to the \text{SUBCAT list of the verb it combines with.}
3.1 Morphology

There are two basic approaches to inflectional and derivational morphology. The first is called “Item-and-Arrangement (IA) approach”, “Morpheme-based approach”, or “Word Syntax approach”. It is assumed that words consist of morphems that are form meaning pairs. Such morphems are combined in a way that is similar to what is known from syntax. The alternative proposal is called “Item-and-Process (IP) approach”. Here it is assumed that stems are related to other stems or to words by realizational rules. Affixes are not elements of the lexicon. The phonological material that is contributed by an affix in the Item-and-Arrangement model is introduced in the process that derives a form from a given stem. For a comparison of the two approaches see (Hockett, 1954) and (Anderson, 1988).

As an example consider the inflected form \textit{fragt} (‘asks’) which consists of the stem \textit{frag} and the ending \textit{t}. In a morpheme-based approach both the stem and the ending are morphems and it is assumed that both bear meaning. The word \textit{fragt} has the structure \textit{frag} \textit{t}. In a Item-and-Process approach there is no lexical entry for \textit{t}. Instead the form \textit{fragt} is licensed by a process that relates the stem to the fully inflected word (\textit{frag} \Rightarrow \textit{fragt}). The information that \textit{t} is an appropriate ending for the present tense is contained in the definition of the relation that relates the stem to the word.

In the HPSG paradigm both Item-and-Arrangement and Item-and-Process analyses have been developed: Trost (1991), Krieger and Nerbonne (1993), Krieger (1994), van Eynde (1994, Chapter 4), and Lebeth (1994) suggest an affix-based approach and Pollard and Sag (1987, Chapter 8.2), Orgun (1996); Riehemann (1998b); Ackerman and Webelhuth (1998); Katoh (1999), Koenig (1999)).^6 use lexical rules that relate stems to other stems or words.

One advantage of the IP view is that one does not have to stipulate zero morphems for cases of zero inflection or conversion. Another advantage is that the stipulation of subtractive morphems is not necessary. Hockett (1954, p. 224) discusses cases from Chinese and French where a shorter form is regarded as derived from a longer more basic one (\textit{bon} vs. \textit{bonne} is the French example). A morpheme-based analysis would have to stipulate an abstract entity that has some meaning, but no phonological form. If it is combined with some other element, phonological material of this element is deleted. In the IP view on the other hand there is just a mapping from \textit{bonne} to \textit{bon} and the fact that something is deleted is encoded in this mapping. In what follows I therefore suggest a lexical rule-based analysis.

3.1.1 Inflection

The lexical rule in (11) is used to derive inflected lexical items from entries that are listed in the lexicon or that have been derived by other lexical rules that map uninflected lexical items to other uninflected lexical items. So it can be used to derive \textit{rennst} from various forms of \textit{renn}-(‘run’). One entry for \textit{renn} is the one that is listed. Another one is derived by the rule for productive particle verb combinations (see (5) on page 251), and can be used in sentences like \textit{er rennt los} (‘he starts to run’).

^6For non-HPSG-based approaches see for instance (Dowty, 1979, p. 304; Stump, 1991; Aronoff, 1994).
This lexical rule produces a finite form from the stem that may be basic or derived. The VFORM value is instantiated appropriately and since I follow Borsley (1989) and Pollard (1996) in assuming that subjects of finite verbs are represented on the SUBCAT list, the subject of the uninflected stem is appended at the beginning of the list of other arguments. The meaning of the input (4) is embedded under the present relation.\(^7\)

The agreement information is directly represented at the subject. The rule in (11) is a subtype of the general Subject Insertion Lexical Rule (SILR). For other forms of the inflectional paradigm there will be other subtypes that add other phonological information to the stem and that enforce different agreement features on the subject. For subjectless verbs and verbs with clausal subjects there is a version of the rule above that adds a third person singular ending to the phonology value of the stem.

The two lexems for renn- that were mentioned above cannot be used in syntax since they are of the wrong type: they are not subtypes of word, only the output of lexical rules for inflection is.

If the rule in (11) is applied to the listed entry for renn- in (7), one gets (12).

\(^7\)This representation of tense is a simplification. It can be replaced by a more appropriate analysis. See (Sag and Wasow, 1999) for a representation using Minimal Recursion Semantics (MRS).
Although the semantics of the particle verb combination (13) is still underspecified since the particle is not combined with the verb yet, it can be referred to. The content of the particle that will be filled in later is embedded under the tense relation. When the particle los is combined with the lexical sign in (13), we get (14).
The combination of particle and verb is licensed by the predicate complex schema Müller (2000a,b).

3.1.2 Ge- -e-nominalizations

The lexical rule in (15) can be used to derive nominalizations like Herumgerenne.\(^8\)

\[(15) \text{Lexical rule for Ge- -e-nominalizations:}\]

Consider first Gerenne as it can be derived from the lexical item in (7) for the verb renn- without a particle. If this lexical item is fed into (15), the result is (16).

\(^8\)I ignore the possibility to realize arguments of the verb. I assume an NP analysis, but nothing hinges on that.
The agent of *rennen* is not specified in (16). The nominalization rule has to take care of the existential quantification of this argument.

To derive *Herumgerenne* we first have to apply the lexical rule (5) for productive particle verb combinations to the entry for *renn-* that is listed in the lexicon. The result was given as (8). The lexical rule for *Ge- *e*-nominalization applies to (8) and licences (17).

The semantics of *rennen* + particle [□] is the argument of *repeated*. In (17) the actual value is still underspecified, but when (17) is combined with the particle, [□] gets instantiated.

*Herum* like *los* attaches to intransitive verbs only.
(18) a. Karl rennt / hüpf herum.
    Karl runs jumps around
b. Karl liest (in dem Buch) herum.
    Karl reads in the book around
c. * Karl liest das Buch herum.
    Karl reads the book around

There are several meanings of *herum*. I will call the one that is of interest here *herum*₁.
*herum*₁ adds a component to the meaning of the input lexical entry that the action is aimless.

(19) *herum* (*around*):

The result of combining the particle *herum* in (19) with (17) is shown in (20).

(20) *Herumgerenne*-

As with the simple *Gerenne* in (16), the agent of *rennen* is not specified in (20). The nominalization rule takes care of the existential quantification of this argument. The scoping of particle and derivational material in (20) is correct and no rebracketing mechanism is necessary.

### 3.2 -bar-derivation

Having dealt with inflection and with *Ge*- *e*-nominalization, it is easy to see how -bar-derivation might work: A lexical rule licences a verb entry that can be combined with a particle. Arguments that are introduced by this particle are attracted by the lexical head.
of the particle verb combination. Since this attraction is encoded in the lexical item for the head already, the -bar-derivation may refer to the argument that is contributed by the particle when the derived adjective is combined with the particle. Because of the constraint contributed by the -bar that there has to be an object, -bar-derivation does not apply to intransitive particle verbs.

4 Alternatives

In the next section I discuss two alternative proposals to solve the alleged bracketing paradoxes: The first one was suggested by Stiebels and Wunderlich (1994) and uses Williams (1981) notion of lexical relatedness. The second is Stump’s analysis (1991) of morphosemantic mismatches that uses paradigm functions.

4.1 Rebracketing and Lexical Relatedness

Stiebels and Wunderlich (1994, p. 935) and Stiebels (1996, Chapter 3.2.1) assume the structure in (21) for nominalizations like *Einführung* (‘introduction’).

(21) [ein [führt]ung]N

They assume a notion of lexical relatedness that is similar to the one that was proposed by Williams (1981):

(22) **Lexical relatedness:**
A compound of the structure [P [α V β]X], where X is a noun or adjective formed from a verb (with α, β as possible derivation affixes), may be interpreted as if α, β were applied to the respective verb [P V]. α and β may be (phonologically) empty.

As they note, this principle violates strict compositionality: They assume that *Führung* (‘leadership’), *Gabe* (‘gift’) and *sehbar* (‘watchable’) are parts of the words *Einführung* (‘introduction’), *Abgabe* (‘delivery’), and *absehbar* (‘conceivable’).

Stiebels and Wunderlich argue that such a postponed interpretation is needed for other cases of compounds too, since *Aufsteher* (‘riser’) is ungrammatical and *Frühaufstehert* (‘early.riser’) is grammatical.

-er-nominalizations are used to refer to a certain discourse referent in a situation. Since *to get up* is not a property that discriminates between people, the noun *Aufsteher* (‘up-getter’, ‘riser’) as such is strange. Lüdeling (2001, p. 101) provides a context where the property of getting up discriminates between people and therefore can be used without further specification: The situation is a hospital where a certain group of patients is allowed to get up during the day while the others have to stay in bed. In this situation it is possible to refer to a member of the first group as *Aufsteher* (‘person who gets up’) and to a member of the second group as *Liegenbleibet* (‘person who does not get up’). This shows that *Aufsteher* is not ungrammatical and therefore such examples...
do not count as independent evidence for a postponed interpretation in Stiebels and Wunderlich’s sense.

On page 939 they discuss the data in (23):

(23) a. bieten \(\approx\) Gebot (‘offer’)
    b. verbieten \(\approx\) Verbot (‘forbid/ban’)
    c. anbieten \(\approx\) Angebot (‘offer’)
    d. aufbieten \(\approx\) Aufgebot (‘exert/exercion’)

verbieten is a prefix verb and anbieten and aufbieten are particle verbs. The root noun related to bieten is Bot, which was subject to a prosodically triggered ge-prefixation in West Germanic. The prefixed root noun Verbot is listed and therefore the ge-prefixation does not apply. The nominalizations of particle verbs are formed with Gebot. Stiebels and Wunderlich conclude from this that Angebot and Aufgebot are compounds that are formed from Gebot and a preposition. However, the data is also compatible with the analysis presented in the previous chapter: The ge-prefixation applies to a stem that contains a representation of the particle in its valence lists. No lexical relatedness is needed.

That leadership has anything to do with introduction is highly implausible and any analysis that does not have to make such assumptions should be preferred over Stiebels and Wunderlich’s. Furthermore, in their approach, not just the interpretation has to get postponed, but the evaluation of other constraints as well. Stiebels and Wunderlich do not have a solution to the problem of non-existant bases (see (Paul, 1920, p. 75)): To derive Ausbreitung (‘spreading’) they have to assume *Breitung as part of the analysis. Apart from this it is not clear when the passivization should apply in -bar-derivations. In their view, the -bar-derivation applies to an intransitive verb and the particle is combined with the result later. Only then the additional argument that is introduced by the particle is available. As was discussed in the data section, -bar-derivation productively applies only to transitive verbs.

4.2 Paradigm Functions

Stump (1991) suggested so-called paradigm functions that relate stems to stems or stems to words (roots to roots and roots to words in his terminology). These functions may be defined in a way that allows inflectional or derivational material to attach to a head contained in a more complex structure. With such a definition he can account for Pesetsky’s unhappier puzzle (1985): In general the comparative suffix joins with short adjectives and does not attaches to trisyllables, so a bracketing [[un-happy] er] is not possible since unhapy is trisyllabic. Because of the shortness constraint [un [happi-er]] is the only available structure, but semantically one needs the first structure. For this comparative formation Stump defines paradigm functions that attach the comparative ending to the head inside [un-happy]. As was mentioned in footnote 1 on page 248 he also allows combinations of derivational material with heads in complex structures. On page 714 he remarks that in derivational paradigms in which the derived member belongs to a syntactic category distinct from that of the base member, the derived member generally fails to allow this kind of structure where the inflectional or derivational
material attaches to the head. He remarks that nouns derived from particle verbs are exceptions (hang on → hanger on, pass by → passer-by). In section 3 I showed how similar German examples can be handled without violating Stump’s generalization. For -bar-derivation one does not need [[an-fahr]-bar]. The account that was presented in the previous section has another advantage over Stump’s proposal: It can deal with particle verbs like eindosen (‘to tin’) that are not derived from base verbs. A verb * dosen does not exist. In the approach presented in the last section eindosen is derived from the noun Dose (‘tin’). The result of the application of a lexical rule is a verbal stem that selects the particle ein. This stem has to be inflected. In Stump’s approach the inflectional material could not attach to a HEAD since the category of eindosen (V) differs from Dose (N) and therefore eindosen is headless (see Stump’s definition of head on page 681). This means that Stump’s approach cannot provide a uniform treatment of inflection and derivation for all classes of particle verbs where the inflectional or derivational material attaches to the stem directly.

5 Conclusion

In this paper I developed a constraint-based analysis for the morphology of particle verbs in German that copes with the alleged bracketing paradoxes. Powerful devices like rebracketing are not needed.

For a more detailed discussion of data and alternative analyses see (Müller, 2000a).

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References


