1 Introduction

- German morphologically distinguishes between so-called verbal/eventive and adjectival/stative passives (Kratzer 1994, 2000; Rapp 1996; Maienborn 2007a, among others):
  - *werden* ‘become’ with verbal passives ((1-a))
  - *sein* ‘be’ with adjectival passives ((1-b)) (example after Kratzer 2000)

(1) a. Die Reifen *werden* aufgepumpt.
   the tires *become* up-pumped
   ‘The tires are being inflated.’

b. Die Reifen *sind* aufgepumpt.
   the tires *are* up-pumped
   ‘The tires are inflated.’

- Traditional view (Wasow 1977; Bresnan 1982; Borer 1984; Levin & Rappaport 1986):
  - Adjectival passives: Copula-adjective constructions
  - Verbal passives: Periphrastic verb forms

- With BE-passives, an underlying event is still accessible: Availability of event-related modifiers ((2)) (Kratzer 1994, 2000; Rapp 1996, 1997; Schlücker 2005; Maienborn 2007a, 2009)

(2) a. Der Brief *ist* mit roter Tinte *geschrieben*.
   the letter *is* with red ink *written
   ‘The letter was written.’

b. Das Haar *war* schlampig gekämmt.
   the hair *was* sloppily *combed

- Possibility of phrasal adjectivisation of VPs (Kratzer 1994, 2000; Rapp 1996)
- Such modifiers are merely pragmatically licensed (Schlücker 2005; Maienborn 2007a).

This paper:

- Restrictions on event-related modification
- Semantic account of BE-passives based on the difference between event kinds and tokens

2 German BE-passives

- (More or less) general agreement:
  - The participle is adjectival.\(^2\)
  - The participle expresses the result or outcome of an event.

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\(^1\)This distinction is also made for other languages (even when they lack morphological differentiation); see, e.g., Embick (2004); Emonds (2006) and literature cited therein, for English; Dubinsky & Simango (1996) for Chichewa; Anagnostopoulou (2003) for Greek; Travis (2005a,b) for Malagasy.

\(^2\)There are a few verbal analyses of BE-passives (e.g. Helbig 1987; Leiss 1992); see also Emonds (2006) for English.
• BE-passives as copula-adjective constructions (Kratzer 1994, 2000; Rapp 1996; von Stechow 1998; Maienborn 2007a): A stative property is ascribed to an individual.

• BE-passives co-exist with ‘true’ copula-adjective constructions, which employ primary adjectives ((3)) (examples from Maienborn 2009).

(3)  
   a. Die Schublade ist geöffnet / offen.  
      the drawer is opened / open  
   b. Die Schublade ist geleert / leer.  
      the drawer is emptied / empty

2.1 The contribution of the underlying verb in BE-passive constructions

• Relation to the argument structure of the underlying verb:
  – The stative property is ascribed to the internal (theme) argument of the underlying verb.
  – The external argument is completely absent ((4)).

This contrast with BECOME-passives, where (even) the (implicit) external argument is syntactically active ((5)) (see also Gehrke & Grillo 2009, and literature cited therein).

(4)  
   a. Der Reifen war aufgepumpt, um die Fahrt fortsetzen zu können.  
      the tire was inflated in order the journey continue to can  
   b. Das Buch war mit Absicht / betrunken geschrieben.  
      the book was with purpose / drunk written

(5)  
   a. Der Reifen wurde aufgepumpt, um die Fahrt fortsetzen zu können.  
      the tire became inflated in order the journey continue to can  
   b. Das Buch wurde mit Absicht / betrunken geschrieben.  
      the book became with purpose / drunk written

• The stative property is recovered from the event structure licensed by the underlying verb.

⇒ Input requirements (first attempt): Only verbs which license an event structure with a stative component derive BE-passives (this is basically the hypothesis in Rapp 1996).

– BE-passives are fully acceptable with transitive accomplishment/achievement verbs, which lexically specify a consequent state (in the sense of Moens & Steedman 1988) ((1-b), (6)).

(6)  
   a. Die Tür ist geöffnet / geschlossen.  
      the door is opened / closed  
   b. Der Antrag ist eingereicht.  
      the application is submitted  
   c. Die Lampe ist repariert.  
      the lamp is repaired

– With other verbs, BE-passives are not acceptable, except in certain contexts ((7)-(9), b. examples from Maienborn 2009) (see also Kratzer 2000):
  * Activities ((7), (8)). The event structure does not contain a stative component.
  * States ((9), though see (11), below): This is not expected.

3The terms activity, accomplishment, and achievement are used here in the sense of Rothstein (2004). It could be debated whether semelfactives, as in (7), or performatives, as in (8), are activities, but there is general agreement that semelfactives and performatives do not lexically specify a consequent state.
(7) a. #Die Katze ist gestreichelt.
   the cat is petted
b. Anna hat ihre Nachbarspflichten erfüllt: Der Briefkasten ist geleert, die Blumen sind gegossen, und die Katze ist gestreichelt.
   Anna has her neighbour-duties fulfilled: the mailbox is emptied, the flowers are watered and the cat is petted.
   ‘Anna has done her neighbourly duties: the mailbox is emptied, the flowers are watered and the cat is petted.’
c. Die Katze ist ??(genug/ fertig) gestreichelt.
   the cat is enough/ ready/done petted
   ‘The cat has been petted enough / (Someone) is done petting the cat.’
   (example from Rapp 1996, 259)

(8) a. #Das Manuskript ist zitiert.
   the manuscript is cited
b. Das Manuskript ist von Chomsky zitiert.
   the manuscript is by Chomsky cited

(9) a. #Die Antwort ist gewusst.
   the answer is known
b. Ist die Antwort gewusst oder geraten?
   is the answer known or guessed
   – Many speakers do not even accept (8-b) and (9-b) with the additional context, whereas examples like (7-b) and (7-c) seem acceptable to everyone.

(10) **Hypothesis**: Only verbs that lexically specify a consequent state derive BE-passives.

⇒ Accounts for the fact that the subject is always the internal (theme) argument of the underlying verb: Changes of state, as a rule, affect theme arguments.
⇒ Accounts for the lexical restrictions:
   – Accomplishment/achievement verbs, whose internal argument undergoes a change of state and as a result is the bearer of a consequent state
   – Stative verbs that allow an inchoative (re-?)interpretation (see also Gehrke & Grillo 2009); cf. contrast between (9-a) and the acceptable BE-passives of the psych predicates in (11).

(11) Marie ist genervt / verärgert / amüsiert.
   Marie is annoyed / angered / amused

2.2 **Restrictions on event-related modification**

- The underlying event can be modified by event-related modifiers ((2), (8-b)), foremost instrumentals and manner modifiers, but sometimes also *by*-phrases.
- However, not all event-related modification is possible; there are two types of modifiers.

**Type 1** Consequent state modifiers (e.g. (13); see also section 4)
**Type 2** Event kind modifiers (e.g. (14); see also sections 3 and 4)

4A German PP headed by *von* ‘of, from’ in these contexts, such as the one in (8-b), is commonly translated into English with a *by*-phrase. However, since it is generally claimed for English that *by*-phrases are not possible with adjectival passives, it is not fully clear whether (a) this claim is simply wrong (exceptions for English exist; German data are discussed in more detail in section 4); or (b) whether German *von*-phrases are not fully equivalent to English *by*-phrases.
• Observation in the literature: Only those modifiers are allowed that relate to event participants that belong to / still have an impact on / are still ‘visible’ during the consequent state; cf. (12)-(14) (examples after Rapp 1996).

    the rubbish bin is by my niece / slowly / with the hay fork emptied

(13) a. Das Haus ist von Studenten bewohnt.
    the house is by students in-lived
   
b. Er ist von der Musik beeindrckt.
    he is by the music impressed

(14) a. Die Zeichnung ist von einem Kind angefertigt.
    the drawing is by a child made
   
b. Der Brief war mit einem Bleistift geschrieben.
    the letter was with a pencil written
   
c. Das Haar war ziemlich schlampig gekämmt.
    the hair was rather sloppily combed

• The event cannot be temporally or spatially modified.
  – A modifier like recently cannot modify the underlying event but only the state ((15)).

(15) Die Tür war kürzlich geöffnet.
    the door was recently opened
    → The door was in the opened state recently, but probably is no longer.
    (NOT: The door is in the opened state, the opening having taken place recently.)

  – Be-passives are incompatible with temporal frame adverbials ((16)) (examples from von Stechow 1998) (see also Rapp 1996, 1997).

(16) a. *Der Computer ist vor drei Tagen repariert.
    the computer is before three days repaired
    (‘The computer is repaired three days ago.’)
   
b. Der Computer ist seit drei Tagen repariert.
    the computer is since three days repaired
    ‘The computer has been in a state of being repaired since three days.’
    → Be-passives of the type in (16) are statements about the present (in contrast to present perfect verbal passives, which are statements about the past\(^5\)).

  – Spatial modifiers that pick out the location of the event that brought about the consequent state are also generally bad ((17)).\(^6\)

(17) a. #Die Reifen sind in der Garage aufgepumpt.
    the tires are in the garage inflated
   
b. #Das Kind war im Badezimmer gekämmt.
    the child was in the bathroom combed

⇒ The event lacks spatiotemporal location.

Idea: Be-passives involve event kinds, not event tokens.

\(^5\)See also Rapp (1996); Kratzer (2000); Maienborn (2007a) and literature cited therein for arguments against treating Be-passives as an ellipsis of a verbal passive perfect construction.

\(^6\)The incompatibility of spatial and temporal modifiers with (many or most) stative predicates is discussed extensively in Katz (2003, 2008); Maienborn (2007b).
3 The proposal

- A BE-passive refers to the instantiation of a consequent state kind of an event kind ((18)).

(18) a. Die Tür ist geschlossen.
   the door is closed

b. \( \exists e_k, s_k, s \left[ \text{BECOME}(e_k, s_k) \land \text{THEME}(e_k, \text{door}) \land \text{closed}(s) \land \text{THEME}(s, \text{door}) \land \mathbf{R}(s, s_k) \right] \)

NB: \( \mathbf{R} \) is Carlson’s (1977) realisation relation.

- The use of \text{BECOME} is motivated by the hypothesis in (10).\footnote{We can assume any event semantic reformulation of Dowty’s (1979) \text{BECOME}, e.g. von Stechow (1996); Rothstein (2004). Alternatively, to avoid the temporal flavour of \text{BECOME}, we could employ L"obner’s (1989) concept of phase quantification, e.g. as used in Fong (1997).}

- Motivating event kinds:
  - The event in BE-passives has no spatiotemporal manifestation. \( \rightarrow \) It is an event \textit{kind}.
  - Event kinds are natural to expect if we assume:
    * Events form a subsort in our ontology of (token) individuals (Reichenbach 1947; Davidson 1967; Parsons 1990);
    * Kinds form another subsort in that ontology (Carlson 1977); and
    * Any token in the ontology is the realisation of some kind in that ontology.
  - Event kinds have an analog in e.g. the Situation Semantics notion of event type (Barwise & Perry 1983), though the formal details are quite different.
  - Under a Neo-Davidsonian view (e.g. Parsons 1990), events can be decomposed into subevent, which motivates the additional assumption of the existence of subevent kinds.
  - Empirical arguments for event kinds as an ontological category have been made in e.g. Landman & Morzycki (2003); Ginzburg (2005); Sailer (2010); Gehrke & McNally (2011).

3.1 Modeling manner in terms of kinds (Landman & Morzycki 2003)

- Semantic and syntactic parallels with \textit{so}-anaphora in the nominal and verbal domains across various languages; examples from German are given in (19).

(19) a. so ein Hund (wie dieser)
    so a dog (like this)
    ‘such a dog like this one’ \textit{adnominal use}

b. Er hat so getanzt (wie Maria).
    he has so danced (like Mary)
    ‘He danced in the same manner as Mary.’ \textit{adverbial use}

- Elements like \textit{so} under the adnominal use ((19-a)) are commonly treated as kind anaphors, following Carlson (1977).

- Landman & Morzycki (2003) treat adverbial \textit{so} analogously, as anaphor to event kinds: \textit{so} denotes a property of events that realise a (particular contextually supplied) kind ((20)).

(20) \[ [\text{so}_i] = \lambda e. e \text{ realises } k_i \]

- An additional argument that kinds are involved comes from the fact that temporal and locative adverbials generally cannot antecede adverbial \textit{so} ((21)), unless they can be seen as naming a (new or sub-)-kind ((22)) (examples from Landman & Morzycki 2003).
(21) a. *Maria hat am Dienstag getanzt, und Jan hat auch so getanzt.
   Mary has on Tuesday danced and John has also so danced
b. *Maria hat in Minnesota gegessen, und Jan hat auch so gegessen.
   Mary has in Minnesota eaten and John has also so eaten

(22) Maria schläft in einem Schlafsack, und Jan schläft auch so.
   Mary sleeps in a sleeping bag and John sleeps also so
   ‘Mary sleeps in a sleeping bag and John does so, too.’

- They conclude that it is viable to treat manner modifiers as modifying event kinds in general.

3.2 Event kind modifiers with BE-passives
- The modifiers discussed in Landman & Morzycki (2003) behave the same with BE-passives, which follows directly from the current proposal:
  - Spatial and temporal modifiers, which modify an event token, are not acceptable.
  - Manner modifiers, which modify an event kind, are acceptable.
  - Other modifiers, such as instrumentals and by-phrases, are acceptable if:
    * They modify an event kind (e.g. by naming an event subkind or by creating a new event kind) (see (14) as opposed to (12)).
    * They modify the consequent state directly (see next section).

4 Event kind vs. state token modifiers: Two types of by-phrases
4.1 Differences in stress (Schlücker 2005)
- ‘VP-adjuncts’: do not form a prosodic unit with the participle ((23)).
  → Neutral stress is on the participle; secondary stress on the modifier (the latter point is not noted in Schläcker; see Hoekstra 1999; Gehrke 2008, for similar facts from Dutch).

(23) a. weil Peter von dem GeJAmmer genervt ist
    because Peter by the lamentation annoyed is
    ‘because Peter is irritated by the lamentation’
   b. weil Peter von dem GeJAmmer geN ´ERVT ist
    because Peter by the lamentation annoyed is

- ‘V-adjuncts’: form a prosodic unit with the participle ((24), (25)).
  → Neutral stress is on the modifier.

(24) a. weil die Wände von FEUer geschwärzt sind
    because the walls by fire blackened are
    ‘because the walls are blackened by fire’
   b. weil die Wände von Feuer geSCHW ¨ARZT sind
    because the walls by fire blackened are’

8I use Schläcker’s labels ‘V-adjunct’ and ‘VP-adjunct’ as mere descriptions. In Section 5, I will argue that we are dealing with VP and AP modifiers, respectively.
Different kinds of complements with the two types of von-phrases:

- ‘VP-adjuncts’
  * The von-phrase denotes the agent or direct causer of the underlying event which is often an animate and / or a volitionary entity.
  * Animate entities: Proper names or members of a group denoted by a collective noun, e.g. Polizist ‘police-man’
  * Inanimate entities: Definite uses of mass nouns, e.g. vom Feuer ‘by the fire’, or apppellatives used definitely, e.g. von der Bombe ‘by the bomb’

- ‘V-adjuncts’
  * The von-phrase denotes the theme of the underlying event or an indirect causer and can sometimes be replaced by a durch-‘through’-phrase; It often has an instrumental character and provides information about the manner or reason of the event.
  * Animate entities: Collective nouns, e.g. von der Polizei ‘by the police’
  * Inanimate entities: Generic uses of mass nouns (von Feuer ‘by fire’) or indefinite uses of appellatives (von einer Bombe, von Bomben ‘by a bomb, by bombs’)

Some qualifications

- The ‘V-adjuncts’ discussed by Schlücker are parts of collocations or idioms.
  - Other ‘V-adjunct’ by-phrases: (8-b) and (14-a), repeated in (28) (with neutral stress pattern)
The ‘VP-adjuncts’ discussed by Schlücker are fully acceptable only with stative predicates, but rather questionable with other predicates.

- An example from previous sections, which displays this intonation pattern, is the stative one in (13-b), repeated in (29) (with neutral stress pattern).

(29) Er ist von der MuSIK beEINdruckt.
    he is by the music impressed

- Other alleged ‘VP-adjuncts’, i.e. those that do not combine with stative predicates, if acceptable at all, behave like ‘V-adjuncts’ ((30), Schlücker’s examples, my and other native speakers’ judgments about stress).\(^9\)

(30) a. (??) weil der Saal von der Heinrich-BÖLL-Stiftung gemietet ist.
    because the hall by the Heinrich-Böll-foundation rented is
    ‘because the hall is rented by the Heinrich-Böll Foundation’ \textit{neutral}
    b. (??) weil der Saal von der Heinrich-Böll-Stiftung geMIEtet is
    because the hall by the Heinrich-Böll-foundation rented is \textit{contrastive}

\[\Rightarrow\] By-phrases that behave like ‘VP-adjuncts’ are fully acceptable only with states.

4.2 (In)compatibility with un- and word order differences (Rapp 1996)

- By-phrases that relate to an action/process are incompatible ((31)) / those with stative verbs are compatible with un-prefixation ((32)) (examples due to Lenz 1993).

    the soup is (*by Maja) unseasoned
    b. Der Brief ist (*von Maja) ungeschrieben.
    the letter is (*by Maja) unwritten

(32) a. Die Dresdner Bürger sind von solchen Problemen unbeeindruckt.
    the Dresden-citizens are by such problems unimpressed
    ‘The citizens of Dresden are not concerned with such problems.’
    b. ... weil sie von ihrer Arbeit unbefriedigt ist.
    because they by their work unsatisfied are
    ‘... because they are not satisfied by their work’

- Word order differences between non-action-related by-phrases ((33)) and other event-related modifiers in the BE-passive ((34)).

(33) a. Die Dresdner Bürger sind unbeeindruckt von solchen Problemen.
    the Dresden-citizens are unimpressed by such problems
    b. ... weil sie unbefriedigt von ihrer Arbeit ist.
    because they unsatisfied by their work are

(34) *... weil der Brief geschrieben von einem Experten / mit roter Tinte war.
    because the letter written by an expert / with red ink was

\(^9\)Further syntactic tests to distinguish between V- and VP-adjuncts, mentioned by Schlücker (2005), such as the relative placement (with respect to modifier and participle) of sentence negation, sentence adverbials and floating quantifiers, yield the same results.
• Rapp (following Kratzer 1994): Phrasal adjectivisation of a VP with BE-passives in combination with event-related modifiers is not compatible with *un*- (see next section).
  
  – Absence of a clash between *un*- and a *by*-phrase in the stative examples: The *by*-phrase expresses an argument of the adjective and modifies the AP.

4.3 Taking stock: The licensing of *by*-phrases

• Different kinds of *by*-phrases with BE-passives that are licensed in different ways:
  
  – *By*-phrases that behave like ‘V-adjuncts’: Event kind modifiers
    * Name a new/sub-kind (e.g. (14-a))
    * Behave like other event-related modifiers of BE-passives
  
  – *By*-phrases that behave like ‘VP-adjuncts’: (Consequent) state modifiers
    * Fully acceptable only with stative predicates
    * Contrast with other event-related modifiers

• Schlücker’s observations about the different complements (more or less) follow:
  
  – ‘V-adjuncts’: If the *by*-phrase modifies an event kind rather than an event token, the potential agent of such a kind naturally has a more generic character.
  
  – ‘VP-adjuncts’: *By*-phrases modifying an actual state token → less generic

5 Implications for the Syntax-Semantics Interface

  
  – Lieber (1980): The participle is turned into an adjective by zero-affixation ((35)).

(35)  \[ \text{COP} \left[ A \left[ V_{\text{Part}} \text{geöffnet} \right] \circ \right] \]

• Absence of an external argument (supported by data like (4))
  
  ⇒ Kratzer (1994, 2000):
  
  – The participle morphology in BE-passives licenses the absence of verbal inflection, but is in itself meaningless (see also von Stechow 1998).
  
  – The lack of verbal inflection implies the lack of an external argument which is introduced VP-externally, by a separate head VoiceP (vP in other frameworks).
  
  ⇒ The input to adjectivisation is at most a bare VP.

• Current proposal: The event in BE-passives is an event kind
  
  – A bare VP represents an event kind.
  
  – In order to individuate an event, we need additional verbal structure, such as vP (VoiceP).
  
  – Such structure is generally absent in BE-passives, the event remains in the kind domain.

• Possibility of phrasal and lexical adjectivisation (Kratzer 1994, 2000; Rapp 1996)

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10Remember that Schlücker also claims that such *by*-phrases often denote ‘agents’, but I assume these are rather (albeit more concrete) causes of psych predicates, or those *by*-phrases with eventive predicates that are not fully acceptable in the first place, such as in (30).
6 Different readings in previous proposals

• Predictions of the current account:
  – Only accomplishment and achievement verbs are good inputs to a BE-passive construction.
  – They should all be equally good inputs.

• Challenges to this approach:
  – Context can improve the acceptability of verbs other than accomplishments and achievements (see section 2).
  – Even among accomplishment and achievement verbs, some are more natural in BE-passives than others

⇒ The construction is most natural if the state expresses something like an opposite state\(^\text{11}\).
  * E.g. (6-a) is rather ‘neutral’ and only expresses the stative property of the door being open/closed.
  * In contrast, (6-b) and (6-c) have an additional ‘the job is done’ flavour (in the sense of Kratzer 2000).

\(^{11}\) I will leave this notion at a more intuitive level, but it should become clearer towards the end of the section what an opposite state might be.
– Literature: Two different readings of BE-passive construction (to my knowledge first described in Brandt 1982) (examples via Rapp 1996)

   the meat is cooked we can now eat
   ‘The meat is done. We can eat now.’

b. Das Fleisch ist gekocht. Es ist nicht gebraten.
   the meat is cooked it is not fried
   ‘The meat is cooked. It is not fried.’

∗ Rapp (1996): Pragmatic difference between a consequent state reading ((39-a)) and a characterisation reading ((39-b))
∗ Maienborn (2007a), and subsequent work: Pragmatic difference between a temporal reading ((39-a)) and a qualitative reading ((39-b))
∗ Kratzer (2000): Semantic difference resultant state passives (∼(39-a)) and target state passives (∼(39-b))

6.1 The pragmatic approach (Maienborn 2007a, and subsequent work)

• BE-passives are always pragmatically licensed and possible across all verb classes (with a few lexical exceptions).\(^{12}\)

• Primary adjectives vs. BE-passives:
  – Nonderived adjectives assign ‘a lexically coded property, which has a fixed place in the subject referent’s property space’ ((40-a)).
  – BE-passives ascribe a ‘pragmatically salient ad hoc property, conceived as resulting from the event referred to by the participle’ ((40-b), (41)).

  (ad hoc, in the sense of Barsalou 1983, and subsequent work)

(40) a. Das Manuskript ist neu.
   the manuscript is new
   ∃s [s: \(\text{new}(\text{the manuscript})\)]

b. Das Manuskript ist eingereicht.
   the manuscript is submitted
   ∃s [s: \(\text{Q}(\text{the manuscript}) \land \text{result}(e, s) \land \text{submit}(e)\)]

(41) Adjectival ⊙-affix: \(λPλxλs∃e [s: \text{Q}(x) \land \text{result}(e, s) \land P(e)]\)

  – The free variable \(\text{Q}\) stands for the property that holds for the subject referent \(x\) in a state \(s\).
  – \(\text{Q}\) is further restricted as resulting from the verbal event \(e\). The grammar does not supply any more information than that about the actual kind of property.

• A BE-passive is pragmatically licensed if the context provides a contrasting alternative state \(s’\) which differs from \(s\) with respect to either the temporal or the qualitative dimension (see also Gese 2010, on temporal and qualitative readings).\(^{13}\)

\(^{12}\)I will mainly focus on the most recent paper, Maienborn (2009), and all direct quotes are from this paper. Works that build on Maienborn’s account include Schlücker (2005); Gese (2010).

\(^{13}\)Nothing is said as to whether this requirement can be derived from some more general pragmatic principle. It is only stated that it is necessary to situate the ad hoc property in the subject’s property space (see also Maienborn 2007a, 102f.), so I assume it has to do with Barsalou’s notion of ad hoc properties. In Maienborn (2009, 42) Barsalou’s ad hoc categories are described as ‘goal-derived categories that are created spontaneously for use in more or less specialized contexts. Under this perspective adjectival passives may be seen as a means to extend and contextualize a concept’s property space with respect to contextually salient goals.’
Maienborn’s interpretation of Kratzer’s (2000) resultant vs. target state passives (see below):\textsuperscript{14}

- Resultant state reading ((42-a)): Post state of a submitting event; the context provides a salient alternative state $s'$ that precedes $s$ and in which $x$ does not have the property $Q$.
- Target state reading ((42-b)): The manuscript belongs to the class of submitted papers; $s'$ exemplifies a contextually salient property $Q'$ that is distinct from $Q$.

\begin{align*}
(42) & \text{Das Manuskript ist eingereicht ...} \\
& \text{the manuscript is submitted ...} \\
& \text{‘The manuscript is submitted ...’} \\
& \exists s \ [s: Q(\text{the manuscript}) \land \text{result}(e,s) \land \text{submit}(e)] \\
& \text{a. (... jetzt können wir uns an den Projektantrag machen.)} \\
& \quad \text{now can we to the project-proposal make} \\
& \quad \text{‘... now we can turn to the project proposal’} \\
& \quad \land \text{contrast}(s, s') \land s': \neg Q(x) \land s' < s \\
& \text{b. (... aber nicht angenommen / veröffentlicht / ...)} \\
& \quad \text{but not accepted / published / ...} \\
& \quad \text{‘... but not accepted / published / ...’} \\
& \quad \land \text{contrast}(s, s') \land s': Q'(x)
\end{align*}

6.1.1 \textit{How can we integrate these observations into the current account?}

⇒ \textit{Alternative hypothesis}: Only verbs that lexically specify a state which can be interpreted as an opposite state are fully acceptable in BE-passives.

- Accomplishments, achievements,(, states): Consequent and inchoative states are generally in contrast with a prior opposite state.

- Other verbs: A BE-passive is only possible if an opposite state can be derived contextually:
  - Temporal scale in (7-b): The cat is now in the state it was supposed to be in; opposition between the job not being done yet and the job being done.
  - Scale of quality in (8-b): The manuscript is cited by Chomsky and not just by some under-grad student in a term paper.
  - Scale of quality in (9-b): The answer is more certain (more likely to be correct), because it is known and not just guessed.

⇒ Two types of readings, depending on the underlying scale:
  - Temporal scale (the state expressed by the construction is a consequent state opposed to some state the subject has previously been in).
  - Qualitative scale (the state expressed by the construction is a state of a particular qualitative kind as opposed to some other state on that scale that the subject could be in).

- Back to \textsc{become}:
  - The most straightforward opposition is given by the event structure of predicates involving a \textsc{become} component (the scalar dimension is temporal in the course of the derivation).
  - In other cases, an opposite state has to be contextually licensed (the scalar dimension could be one of quality).

\textsuperscript{14}Maienborn notes that Kratzer’s (2000) understanding of the target state reading is more narrow, restricting it to only those target states that are reversible; her characterisation of the two readings is quite similar to Rapp’s (1996).
BECOME $\phi$ is true at $I$ iff there is an interval $J$ containing the initial bound of $I$ such that $\neg \phi$ is true at $J$ and there is an interval $K$ containing the final bound of $I$ such that $\phi$ is true at $K$.

Informal event semantics of BECOME (von Stechow 1996)

$\text{BECOME}(P)(e) = 1$ iff $e$ is the smallest event such that $P$ is not true of the prestate of $e$ but $P$ is true of the target state of $e$.

- However, not all speakers accept the qualitative readings (as noted in section 2).

6.1.2 Maienborn’s uniform account seems too weak

- Maienborn points out that the state of BE-passives is evaluated with respect to some opposite state, but this does not follow from her account in (41).

- Intuitively, not all BE-passives have an ‘ad hoc’ flavour or are in need of pragmatic licensing:
  - BE-passives are fully acceptable with verbs that lexically specify a consequent state, without additional pragmatic effects (e.g. there are no such effects with geöffnet ‘opened’) (see also Welke 2007).
  - Context dependency seems relevant only in combination with other verbs.

⇒ There are input requirements. When these are not met, the construction can still be pragmatically licensed (possibly involving some kind of coercion of the event type).\(^{15}\)

6.2 Target state vs. resultant state passives (Kratzer 2000)\(^{16}\)

- Diagnostics: (In)compatibility with immer noch ‘still’:

(45) a. Die Reifen sind (immer noch) aufgepumpt.
   the tires are (still) up-pumped
   ‘The tires are still pumped up.’

b. Das Theorem ist (*immer noch) bewiesen.
   the theorem is (*still) proven
   ‘The theorem is proven.’

- Target state passives
  - Characterise reversible, transitory states
  - Are only possible with category-neutral stems with an event and a target state argument (unspecified for syntactic category because they can be used to build verbs or adjectives)
  - Can be lexical ((46)) or phrasal ((47)) (example: (das Boot) aufgepumpt ‘(the boat) inflated’)

(46) Target state passive, lexical case

Stem: $\lambda x \lambda s \lambda e [\text{pump}(e) & \text{event}(e) \& \text{inflated}(x)(s) \& \text{cause}(s)(e)]$

Stativiser: $\lambda R \lambda s \exists e R(s)(e)$

Output: $\lambda x (\lambda R \lambda s \exists e R(s)(e) (\lambda s \lambda e [\text{pump}(e) \& \text{event}(e) \& \text{inflated}(x)(s) \& \text{cause}(s)(e)]))$

$= \lambda x \lambda s \exists e [\text{pump}(e) \& \text{event}(e) \& \text{inflated}(x)(s) \& \text{cause}(s)(e)]$

\(^{15}\)See also Rapp (1996) who proposes that these cases require a reinterpretation of an ‘activity’ into a ‘process’.

\(^{16}\)See also Kratzer (1994). The terminology is adopted from Parsons (1990), though Kratzer seems to have a more narrow notion of ‘target state’.
(47) Target state passive, phrasal case
Stem+object: \(\lambda s\lambda e[pump(e) & \text{event}(e) & \text{inflated}(\text{the boat})(s) & \text{cause}(s)(e)]\)
Stativiser: \(\lambda R\lambda s\exists e R(s)(e)\)
Output: \(\lambda s\exists e[pump(e) & \text{event}(e) & \text{inflated}(\text{the boat})(s) & \text{cause}(s)(e)]\)

- Resultant state passives
  - Refer to states resulting from an event, which is over by the time of reference; the state ‘has to hold forever after’.
  - Can be derived from category-neutral stems as well as from verbs (as long as they allow a ‘the job is done’ reading)
  - Have perfect aspect, since the derivation involves an aspectual operator ((48)).

(48) Resultant state passive
Stem+object: \(\lambda e[\text{prove}(\text{the theorem})(e)]\)
Stativiser: \(\lambda P\lambda t\exists e[P(e) & \tau(e) < t]\)
Output: \(\lambda t\exists e[\text{prove}(\text{the theorem})(e) & \tau(e) < t]\)

6.2.1 How can we adapt the current proposal to the two readings?
- Rephrasing the distinction by refuting to the difference between event kinds and event tokens:
  - Consequent states of actual events that took place: similar to a perfect of result.
    \(\rightarrow\) resultant state / temporal reading?
  - The state is merely of the correct kind to have resulted from an event of some type.
    \(\rightarrow\) target state / qualitative reading?
- Problem now: We do not really want an event token, since there is no spatiotemporal location.\(^{17}\)
  \(\Rightarrow\) If event kinds lack spatiotemporal location, don’t we get non-temporal readings for free?\(^{18}\)

6.2.2 Doubts about the still-diagnostics
- The (un-)availability of modification by still seems to have more to do with whether or not the consequent state of the event type associated with a verb can be and is expected to be reversed.\(^{19}\)
  \(\Rightarrow\) The verbs whose participles are compatible with still (e.g. hidden, screwed off, evacuated, obstructed) have clear antonyms, whose consequent states express something like a more ‘natural’ state.
- Other participles might not allow still for different and independent reasons:
  - With some, the underlying verb does not lexically encode a consequent state, e.g. greeted: A BE-passive is quite bad even without the modifier.
  - With others, the underlying verbs are derived from adjectives (e.g. emptied, dried): Even with the underlying adjectives, the use of still seems more marked (49).

\(^{17}\)The same problem arises under von Stechow’s (1998) account.
\(^{18}\)Another somewhat different distinction, between stative and resultative readings of adjectival passives in English, is made by Embick (2004), and similarly Dubinsky & Simango (1996) for Chichewa and Travis (2005a,b) for Malagasy. Judging from the data discussed by Embick it seems that stative readings are possible only when there is no primary adjective expressing this reading (e.g. in the case of closed), and we could assume that such participles have undergone a grammatical change and have been reinterpreted as primary adjectives.
\(^{19}\)If we treat still as a focus-sensitive aspectual particle, along the lines of Krifka (2000), the expectation that a state modified by still seizes to hold at some later point in time, should follow automatically, though I have not worked out the details of such an account.
a. Die Wäsche ist immer noch trocken.
   the laundry is still dry
   ‘The laundry is still dry.’  Isn’t this ideally the state laundry should be in?

b. Der Briefkasten ist immer noch leer.
   the mailbox is still empty
   ‘The mailbox is still empty.’ Expectation: Someone should put mail in it; but this
   is not necessarily the more natural state for a mailbox to be in.

- Negation of the participle renders *still*-modification possible ((50)) (see also Schlücker 2005, for
  similar observations).

(50) a. Das Theorem ist immer noch unbewiesen.
   the theorem is still unproven
   ‘The theorem is still unproven.’

b. Der Briefkasten ist immer noch ungeleert.
   the mailbox is still unemptied
   ‘The mailbox is still unemptied.’

7 Conclusion

- German BE-passives refer to the instantiation of a consequent state kind of an event kind.

- Event-related modifiers with BE-passives are acceptable if they modify either the event kind or
  the (consequent) state token.

- Given that the event kind is not spatiotemporally located, it is also possible to interpret the scale
  underlying BECOME in a non-temporal way.

- In some cases (for some speakers), BE-passives can also be derived from verbs which do not li-
  cense an event structure with a consequent state component; these cases might involve coercion.

Speculation:

- Unlike commonly assumed, might it be possible, after all, to ascribe the same semantics to past
  passive participles across different constructions, i.e. a consequent state (in the broadest sense)?

  – Adjectival passives: A consequent state is predicated over the internal argument; there is
    no prior process in the semantics, just a state resulting from a change of state, but still
    associated with the event type (the state meaning is due to the BE-auxiliary).

  – Verbal passives: A consequent state is predicated over the internal argument, resulting
    from a process (in most cases) (the process meaning is due to the BECOME-auxiliary) (see
    Gehrke & Grillo 2009, for more details).

  – Perfect tenses: The external argument is in the consequent state of having done something
    (at least from a diachronic perspective; in many languages perfect tenses have been fully
    grammaticalised as past tenses).

⇒ How much of the event remains a kind and how much is instantiated or realised?

⇒ Parallels with nominalisations
Open question: What counts as an acceptable / appropriate / established event kind?

– Welke (2007): Sometimes a BE-passive is possible only with a modifier ((51), (52)).

(51)  
  a. Der Brief ist ?(mit roter Tinte) geschrieben.  
    the letter is with red ink written  
  b. Das Brett ist ?(in zwei Teile) gesägt.  
    the plank is in two parts sawn
References


