Definiteness Effects as Epiphenomena of Information Structure

Kordula De Kuthy and Detmar Meurers
Universität Tübingen

DGfS AG 09: Definiteness Effects Universität Frankfurt March 8, 2012 Definiteness Effects as Epiphenomena of Information Structure

Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Definiteness effect Counter-examples

Corpus examples

Phenomenon II:
Subjects in fronted
non-finite projections
Definiteness effect

Counter-examples

Explaining the definiteness effect

Partial NPs explained

Pragmatics of partial NPs Definite determiners

Summary

Fronted VPs explained

Pragmatics of fronted VPs Components



Roadmap of the talk

- Explore two phenomena:
 - Definiteness effect occurring with partial NPs
 - Definiteness effect in fronted VPs
- Explain the definiteness effect in terms of the information structure requirements of these phenomena
 - Distinguish two types of definite NPs
 - Relate their discourse requirements to those of partial NPs and fronted VPs

Definiteness Effects as Epiphenomena of Information Structure

Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Definiteness effect Counter-examples Corpus examples

Phenomenon II: Subjects in fronted non-finite projections Definiteness effect

Counter-examples

Explaining the definiteness effect

Partial NPs explained

Pragmatics of partial NPs Definite determiners Summary

Fronted VPs explained

Pragmatics of fronted VPs Components

Summarv



Phenomenon I: Partial NPs

Müller (1996) and others claim that separating a PP from its NP exhibits a definiteness effect:

- (1) Uber Syntax hat Karl [ein Buch] gelesen. syntax has Karl the book on 'Karl read a book on syntax.'
- (2) * Uber Syntax hat Karl [das Buch] gelesen. has Karl the book read on syntax
- (3) * [Das Buch] hat Karl über Syntax gelesen. the book has Karl on svntax read

Definiteness Effects as Epiphenomena of Information Structure

Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Definiteness effect Counter-examples

Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Definiteness effect Counter-examples

Explaining the definiteness effect

Partial NPs explained

Pragmatics of partial NPs Definite determiners

Summary

Fronted VPs explained

Pragmatics of fronted VPs Components



Phenomenon I: Partial NPs

Müller (1996) and others claim that separating a PP from its NP exhibits a definiteness effect:

- (1) Über Syntax hat Karl [ein Buch] gelesen.
 on syntax has Karl the book read
 'Karl read a book on syntax.'
- (2) * Über Syntax hat Karl [das Buch] gelesen.
 on syntax has Karl the book read
- (3) * [**Das** Buch] hat Karl über Syntax gelesen. the book has Karl on syntax read
 - Traditionally explained in syntax, by stipulating a restriction on extraction (Fiengo & Higginbotham 1981).
 - ⇒ Our research question: Can this definiteness effect be derived from information structure conditions?

Definiteness Effects as Epiphenomena of Information Structure

Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Definiteness effect Counter-examples

Counter-examples Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Definiteness effect Counter-examples

Explaining the definiteness effect

Partial NPs explained

Pragmatics of partial NPs Definite determiners

Fronted VPs explained

Summary

Pragmatics of fronted VPs Components



Definiteness effect in NP-PP split

Counter-examples to a syntactic account

Pafel (1993) mentions that a definite NP does not always disallow fronting of an embedded PP:

(4) Über Syntax hat Karl nur dieses, aber nicht jenes Buch on syntax has Karl only this but not that book gelesen.
read

'Karl only read this book on syntax and not that one.'

- (5) [Nur dieses Buch] hat Karl über Syntax gelesen. Only this book has Karl on syntax read 'Karl only read this book on syntax.'
 - ⇒ Are these counter-examples systematic? Can they be explained?

Definiteness Effects as Epiphenomena of Information Structure

Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Definiteness effect Counter-examples

Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Definiteness effect Counter-examples

Explaining the definiteness effect

Partial NPs explained

Pragmatics of partial NPs Definite determiners

Summary

Fronted VPs explained

Pragmatics of fronted VPs Components



Definiteness effect in NP-PP split

Corpus exploration

A search in a German treebank (Tüba-D/Z, Stegmann et al. 2000) confirms the existence of such counter-examples:

- (6) [Im Öiendorfer See in Billstedt] hat das Bezirksamt Mitte lake in Billstedt has the local office in the Öiendorfer center bereits vor drei Wochen [das Schwimmen und already before three weeks the swimming and **Planschen**] verboten. splashing forbidden
- (7) [In den einschlägigen Personenlexika der Prominenz] in the relevant people lexicon prominent figures bleibt [die Suche nach ihrem Namen] erfolglos. remains the search their name without success

Definiteness Effects as Epiphenomena of Information Structure

> Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs Definiteness effect

Counter-examples Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Definiteness effect Counter-examples

Explaining the definiteness effect

Partial NPs explained

Pragmatics of partial NPs Definite determiners Summary

Fronted VPs

explained

Pragmatics of fronted VPs Components



Definiteness effect in NP-PP split

Corpus exploration (cont.)

- (8) [Vom 12-jährigen Ungarn Peter Leko] ist [die Außerung] Hungarian Peter Leko is the statement 12-vear-old überliefert, er sei sich sicher, im Jahr 2000 Weltmeister zu sein. he be SELF certain in the year 2000 world champion to be known
- (9) Selbst für den französischen Markt haben AC produziert, aber for the French market have AC produced but even auch [von dort] lässt [der finanzielle Rückfluss] bisher zu from there lets also the financial return so far to wünschen übrig. wish remain

Definiteness Effects as Epiphenomena of Information Structure

> Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs Definiteness effect

Counter-examples Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Definiteness effect Counter-examples

Explaining the definiteness effect

Partial NPs

explained Pragmatics of partial NPs

Definite determiners Summary

Fronted VPs explained

Pragmatics of fronted VPs Components



Phenomenon II: Definiteness effect for subjects in fronted non-finite projections

Definiteness Effects as Epiphenomena of Information Structure Kordula De Kuthy and

Detmar Meurers

Introduction

Phenomenon I: Partial NPs Definiteness effect Counter-examples

Corpus examples Phenomenon II: Subjects in fronted

Definiteness effect Counter-examples

Explaining the definiteness effect

explained Pragmatics of partial NPs

Summary

Partial NPs

Fronted VPs explained

Pragmatics of fronted VPs

Components

non-finite projections

Definite determiners

Summary

EBERHARD KARLS

Subjects can sometimes be realized inside a fronted non-finite verbal constituent (Kratzer 1984, Grewendorf 1989, Haider 1990):

[Ein Außenseiter gewonnen] hat hier noch nie. (10)anom outsider has here still won never

'An outsider has never won here yet.'

The phenomenon shows a definiteness effect: Definite subjects appear to be excluded from this construction (Kratzer 1984):

(11) * [Der Außenseiter gewonnen] hat hier noch nie. the outsider won has here still never

Definiteness effect for subjects in fronted non-finite projections

There are some rarely noted counter-examples:

- (12) [Die Hände gezittert] haben ihm diesmal nicht. hands trembled him this time not have 'This time his hands didn't tremble.' (Höhle 1997, p. 114)
- (13) [Das Telefon geklingelt] hat hier schon lange nicht mehr. has here vet the phone rana lona not more 'The phone hasn't been ringing here in a long time.'
 - ⇒ To address our research question, we explore the information structure requirements of the construction.

Definiteness Effects as Epiphenomena of Information Structure

> Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Definiteness effect Counter-examples Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Definiteness effect

Counter-examples

Explaining the definiteness effect

Partial NPs explained

Pragmatics of partial NPs Definite determiners

Summary

Fronted VPs explained

> Pragmatics of fronted VPs Components



Exploring the information structure requirements

Definiteness Effects as Epiphenomena of Information Structure

Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Counter-examples
Corpus examples

Phenomenon II: Subjects in fronted

non-finite projections

Definiteness effect

Counter-examples

Explaining the definiteness effect

Partial NPs

explained
Pragmatics of partial NPs

Definite determiners Summary

Fronted VPs explained

Pragmatics of fronted VPs Components

Summarv



Are there specific focus-background requirements for the two constructions?

- Partial NPs
- Fronted VPs
- Which types of definite NPs can be distinguished in terms of their information structure properties?
- Can the information structure requirements of the partial NPs and VPs be related to those of the definite NPs?

On the pragmatics of partial NPs

(14) What happened?

[Über Mozart hat Sarah ein BUCH ausgeliehen.]]_F about Mozart has Sarah a book borrowed

(15) What did Sarah borrow?

[Über Mozart] F hat Sarah [ein BUCH] F ausgeliehen.
about Mozart has Sarah a book borrowed

(16) What did Sarah borrow about Mozart?

Über Mozart hat Sarah [ein BUCH]]_F ausgeliehen. about Mozart has Sarah a book borrowed

- The acceptability of the NP-PP-split is directly related to its information structure (De Kuthy 2002):
- → When the two constituents are separated, they must belong to different parts of the information structure.

Definiteness Effects as Epiphenomena of Information Structure

Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Definiteness effect Counter-examples Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Definiteness effect Counter-examples

Explaining the definiteness effect

Partial NPs explained

Pragmatics of partial NPs
Definite determiners

Summary
Fronted VPs
explained

Pragmatics of fronted VPs
Components





Two classes of definite NPs

- a) Definite NPs with an antecedent in the discourse
 - discourse old, strongly familiar (Roberts 2003)
 - → have to be part of the background
- Definite NPs which are used deicticly, endophorically or as a semantic definite
 - weakly familiar (Roberts 2003)
 - → can be in the focus of a sentence

Definiteness Effects as Epiphenomena of Information Structure

Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Counter-examples
Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Definiteness effect Counter-examples

Explaining the definiteness effect

explained

Pragmatics of partial NPs

Definite determiners Summary

Fronted VPs

Partial NPs

Fronted VPs explained

Pragmatics of fronted VPs Components



Partial NPs in Context

a) Definite NPs with an antecedent

(17) Yesterday, I saw an interesting book on syntax at Osiander.

- a. Ich habe mir [das Buch über Syntax] heute [geKAUFT]]_F.
 I have me the book on syntax today bought
 'Today, I bought this book on syntax.'
- b. # Über Syntax habe ich mir [das Buch] heute [geKAUFT]]_F on syntax have I me the book today bought
- ▶ The definite NP has an antecedent in the discourse.
- ► The PP cannot be separated from the NP when both are in the background (17b).

Definiteness Effects as Epiphenomena of Information Structure

> Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Counter-examples Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Counter-examples

Explaining the definiteness effect

Partial NPs explained

Pragmatics of partial NPs Definite determiners

Definite determine Summary

Fronted VPs explained

Pragmatics of fronted VPs Components

Summary



Partial NPs in Context

b) Definite NPs (without antecedent)

- (18) Was hast Du Dir für Material über Syntax ausgeliehen? What did you borrow on syntax?
 - a. Ich habe mir [das BUCH] F über Syntax ausgeliehen, I have me the book on syntax borrowed [das Du mir letztlich empfohlen hast] F. that you me recently recommended have
 - 'I borrowed the book on syntax that you recommended.'
 - b. Über Syntax habe ich mir [das Buch, das Du mir on syntax have I me the book which you to me empfohlen hast] F ausgeliehen. recommended has borrowed 'On Syntax I borrowed the book that you recommended.'
 - ► The focus can include endophoric definite NPs.
 - Such focused definite NP can be separated from a background PP (18b).

Definiteness Effects as Epiphenomena of Information Structure

> Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Definiteness effect Counter-examples Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Definiteness effect Counter-examples

Explaining the definiteness effect

Partial NPs explained

Pragmatics of partial NPs Definite determiners

Definite determine Summary

Fronted VPs explained

Pragmatics of fronted VPs Components

Summary



Partial NPs in Context Summary

- ► The definiteness effect for partial NPs can be explained as a formal pragmatic condition on such partial phrases:
 - ► The two parts of an NP-PP split must be realized as different parts of the information structure.
- The supposed counter-examples to the definiteness effect all involve definite NPs without antecedent
 - e.g., a deictic NP in Pafel's example (4)
- The counter-examples for a syntactic account thus are correctly predicted by our information-structure account.

Definiteness Effects as Epiphenomena of Information Structure

Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Counter-examples
Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Counter-examples

Explaining the definiteness effect

explained
Pragmatics of partial NPs

Definite determiners

Summary

Partial NPs

Fronted VPs explained

Pragmatics of fronted VPs Components



On the pragmatics of phenomenon II

The acceptability of fronted non-finite projections including subjects is directly related to their information structure (De Kuthy & Meurers 2003).

(19) What has never happened here?

[[Ein AUSSENSEITER gewonnen]]_F hat hier noch nie.
an outsider won has here yet never

(20) What has never happened to an outsider?

[Ein Außenseiter $[GEWONNEN]_F$] hat hier noch nie.

(21) Who has never won here?

[$[Ein AUSSENSEITER]_F$ gewonnen] hat hier noch nie.

(22) What's all the excitement about?

$[[Ein AUSSENSEITER gewonnen] hat hier noch nie]]_F$

→ Webelhuth (1990): A fronted verbal constituent must be the focus of the utterance. Definiteness Effects as Epiphenomena of Information Structure

> Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Counter-examples
Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Counter-examples

Explaining the definiteness effect

Partial NPs explained Pragmatics of partial NPs

Definite determiners Summary

Fronted VPs

explained Pragmatics of fronted VPs

Components



Components

The definiteness effect can be explained on the basis of the information structure requirement of the phenomenon:

- A fronted verbal constituents must be the focus of the utterance.
- For verbal projections including the subject to be focused
 - the focus can project from a focused subject (for certain verbs and under certain conditions)
- → The type of definite NPs with antecedents are excluded since they cannot be focus,
 - but the second type of definite NP (without antecedent) is correctly predicted to be possible.

Definiteness Effects as Epiphenomena of Information Structure

> Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Definiteness effect Counter-examples Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Definiteness effect Counter-examples

Explaining the definiteness effect

Partial NPs explained Pragmatics of partial NPs

Definite determiners Summary

Fronted VPs explained

Pragmatics of fronted VPs

Components



The explanation exemplified

Exactly those definite subjects from which focus can project can also be part of the fronted verbal projection:

(23) Was ist hier noch nie passiert? What has never happened here?

* [Der Außenseiter gewonnen] F hat hier noch nie. the outsider won has here still never

(24) Wie ist es ihm diesmal ergangen? How did it go for him this time?

[Die Hände gezittert] $_F$ haben ihm diesmal nicht. the hands trembled have him this time not (Höhle 1997, p. 114)

(25) Was ist denn hier für eine Aufregung? What's the matter?

[Dem Präsidenten zittern die HÄNDE.]]_F the_{dat} president tremble the_{nom} hands

Definiteness Effects as Epiphenomena of Information Structure

Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Definiteness effect Counter-examples Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Definiteness effect Counter-examples

Explaining the definiteness effect

Partial NPs explained

Pragmatics of partial NPs Definite determiners

Summary

Fronted VPs explained

Pragmatics of fronted VPs

Components



Summary

- We investigated two phenomena in German exhibiting a definiteness effect:
 - Partial NPs
 - Subjects as part of a fronted, non-finite verbal projection
- For both phenomena, we highlighted some often ignored counter examples for a syntactic account restricting the occurrence of definite NPs.
- We showed that the definiteness effect can be derived from information structure conditions of the two phenomena and definite NPs in general.
 - The supposed counter-examples are explained as a natural consequence.
- The analysis sketched here is explicitly worked out in the framework of HPSG.

Definiteness Effects as Epiphenomena of Information Structure

> Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Counter-examples
Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Counter-examples

Explaining the definiteness effect

Partial NPs explained

Pragmatics of partial NPs Definite determiners

Summary

Fronted VPs explained

Pragmatics of fronted VPs Components



References

- De Kuthy, K. (2002). Discontinuous NPs in German A Case Study of the Interaction of Syntax, Semantics and Pragmatics. Stanford, CA: CSLI Publications. URL http://ling.osu.edu/~kdk/papers/dekuthy00.html.
- De Kuthy, K. & W. D. Meurers (2003). The secret life of focus exponents, and what it tells us about fronted verbal projections. In S. Müller (ed.), *Proceedings of* the Tenth Int. Conference on HPSG. Stanford, CA: CSLI Publications, pp. 97–110. URL http://purl.org/dm/papers/dekuthy-meurers-hpsg03.html.
- Fiengo, R. & J. Higginbotham (1981). Opacity in NP. *Linguistic Analysis* 7(4), 395–421.
- Grewendorf, G. (1989). *Ergativity in German*. No. 35 in Studies in Generative Grammar. Dordrecht: Foris Publications.
- Grewendorf, G. & W. Sternefeld (eds.) (1990). Scrambling and Barriers. Amsterdam: John Benjamins Publishing Co.
- Haider, H. (1990). Topicalization and Other Puzzles of German Syntax. In Grewendorf & Sternefeld (1990), pp. 93–112.
- Höhle, T. N. (1997). Vorangestellte Verben und Komplementierer sind eine natürliche Klasse. In C. Dürscheid, K. H. Ramers & M. Schwarz (eds.), Sprache im Fokus. Festschrift für Heinz Vater zum 65. Geburtstag, Tübingen: Max Niemeyer Verlag, pp. 107–120.
- Kratzer, A. (1984). On Deriving Syntactic Differences between German and English. Ms. (incomplete), TU Berlin, Institut für Linguistik, 47 pp.
- Müller, G. (1996). Incomplete Category Fronting. Habilitationsschrift, Universität Tübingen, Tübingen. Published as SfS-Report 01–96.

Definiteness Effects as Epiphenomena of Information Structure

> Kordula De Kuthy and Detmar Meurers

Introduction

Phenomenon I: Partial NPs

Definiteness effect Counter-examples Corpus examples

Phenomenon II: Subjects in fronted non-finite projections

Definiteness effect Counter-examples

Explaining the definiteness effect

Partial NPs explained Pragmatics of partial NPs

Definite determiners Summary

Fronted VPs explained

Pragmatics of fronted VPs Components

Summarv





Pafel, J. (1993). Ein Überblick über die Extraktion aus Nominalphrasen im Deutschen. In F.-J. d'Avis, S. Beck, U. Lutz, J. Pafel & S. Trissler (eds.), Extraktion im Deutschen I, Tübingen: Universität Tübingen, Arbeitspapiere des SFB 340 Nr. 34, pp. 191-245.

Roberts, C. (2003). Uniqueness in Definite Noun Phrases. Linguistics and Philosophy 26, 287-350.

Stechow, A. v. & S. Uhmann (1986). Some Remarks on Focus Projection. In

W. Abraham & S. de Meij (eds.), Topic, Focus, and Configurationality, Amsterdam: John Benjamins Publishing Co., pp. 295-320. Stegmann, R., H. Telljohann & E. W. Hinrichs (2000). Stylebook for the German

Tübingen, Germany. URL http://verbmobil.dfki.de/cgi-bin/verbmobil/htbin/ decode.cgi/share/VM-depot/FTP-SERVER/vm-reports/report-239-00.ps. Uhmann, S. (1991). Fokusphonologie - Eine Analyse deutscher

Treebank in VERBMOBIL. Verbmobil-Report 239. Universität Tübingen.

Intonationskonturen im Rahmen der nicht-linearen Phonologie, vol. 252 of Linguistische Arbeiten. Tübingen: Max Niemeyer Verlag.

Webelhuth, G. (1990). Diagnostics for Structure. In Grewendorf & Sternefeld (1990), pp. 41-75.

Information Structure Kordula De Kuthy and Detmar Meurers

Definiteness Effects

as Epiphenomena of

Introduction

Phenomenon I:

Definiteness effect

Counter-examples

Corpus examples

Phenomenon II:

Definiteness effect

Counter-examples

Explaining the definiteness effect

Partial NPs

explained

Summary EBERHARD KARLS UNIVERSITAT TURINGEN

Subjects in fronted non-finite projections

Partial NPs

18/18

Pragmatics of partial NPs

Definite determiners Summary Fronted VPs explained