Case competition in headless relatives

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(1) Ich lade ein, wem auch Maria vertraut. I invite $_{[Acc]}$ RP.DAT also Maria trust $_{[DAT]}$ 'I invite whoever Maria also trusts.' (Modern German, Vogel 2001: 344)

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'I invite whoever Maria also trusts.' (Modern German, Vogel 2001: 344)

- (1) Ich lade ein, wem auch Maria vertraut.

 I invite_[Acc] RP.DAT also Maria trust_[DAT]

 'I invite whoever Maria also trusts.' (Modern German, Vogel 2001: 344)
- (2) Ich lade die Person ein, **der Maria vertraut**.

 I invite_[ACC] the ACC person RP.DAT Maria trust_[DAT]

 'I invite the person that Maria trusts.'

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two factors determine grammaticality

1 the case of the relative pronoun

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 - NOM < ACC < DAT

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 - NOM < ACC < DAT
 - is stable across languages
- where the winning case comes from
 - INT/EXT

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- 1 the case of the relative pronoun
 - NOM < ACC < DAT
 - is stable across languages
- where the winning case comes from
 - INT/EXT
 - differs across languages

■ Illustrate generalizations with data

- Illustrate generalizations with data
 - the stable NOM < ACC < DAT

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- (2) Ich lade ein, wem auch Maria vertraut.
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iso trasts.

(Modern German, adapted from Vogel 2001: 344)

- (3) *Ich lade ein, wen auch Maria vertraut.
 - l invite_[ACC] RP.ACC also Maria trust_[DAT]

'I invite whoever Maria also trusts.'

NOM < ACC < DAT (cf. Harbert, 1978; Pittner, 1995; Vogel, 2001; Grosu, 2003a)

(2) Ich lade ein, wem auch Maria vertraut.
I invite_[ACC] RP.DAT also Maria trust_[DAT]

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NOM < ACC < DAT (cf. Harbert, 1978; Pittner, 1995; Vogel, 2001; Grosu, 2003a)

(2) Ich lade ein, wem auch Maria vertraut.

I invite_[ACC] RP.DAT also Maria trust_[DAT]

'I invite whoever Maria also trusts.'

(Modern German, adapted from Vogel 2001: 344)

(3) Uns besucht, wen Maria mag. us visit[NOM] RP.ACC Maria like[ACC] 'Who visits us, Maria likes.'

NOM < ACC < DAT (cf. Harbert, 1978; Pittner, 1995; Vogel, 2001; Grosu, 2003a)

- (2) Ich lade ein, wem auch Maria vertraut.

 I invite_[ACC] RP.DAT also Maria trust_[DAT]

 'I invite whoever Maria also trusts.'
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 us visit_[NOM] RP.ACC Maria like_[ACC]
 'Who visits us, Maria likes.'

(Modern German, adapted from Vogel 2001: 343)

(4) *Uns besucht, wer Maria mag.
us visit_[NOM] RP.NOM Maria like_[ACC]
'Who visits us, Maria likes.'

NOM < ACC < DAT

(cf. Harbert, 1978; Pittner, 1995; Vogel, 2001; Grosu, 2003a)

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 $us \quad visit_{[\texttt{NOM}]} \; \texttt{RP.DAT} \; Maria \; trust_{[\texttt{DAT}]}$

'Who visits us, Maria trusts.'

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NOM < ACC < DAT in Modern German

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(cf. Harbert, 1978; Pittner, 1995; Vogel, 2001; Grosu, 2003a)

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NOM < ACC < DAT

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(5) **hòn hoi theoì philoūsin** apothnḗskei néos

RP.ACC the god love[ACC] die[NOM] young

'He, whom the gods love, dies young.'

(Classical Greek, Menander, The Double Deceiver 125)

NOM < ACC < DAT

- (5) hòn hoi theoì philoũsin apothnę́skei néos
 RP.ACC the god love_[ACC] die_[NOM] young
 'He, whom the gods love, dies young.'
 (Classical Greek, Menander, The Double Deceiver 125)
- (6) **themo min uuirdit forlazan**, min minnot

 RP.DAT less become read_[DAT] less love_[NOM]

 'whom less is read, loves less' (Old High German, Tatian 138:13)

NOM < ACC < DAT

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 'whom less is read, loves less' (Old High German, Tatian 138:13)
- (7) ei galaubjaiþ þamm -ei insandida jains that believe_[DAT] RP.DAT -COMP send_[ACC] he 'that you believe in him whom he sent' (Gothic, John 6:29)

- winning case = INT case
- winning case = EXT case (cf. Grosu, 2003b; Himmelreich, 2017; Cinque, 2020)

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- (8) Ich lade ein, wem auch Maria vertraut.
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- (9) *Ich vertraue, wem auch Maria mag.
 - I trust_[DAT] RP.DAT also Maria like_[ACC]
 - 'I trust whoever Maria also likes.'

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 - I trust[DAT] RP.DAT also Maria like[ACC]
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- INT: yes
- EXT: no

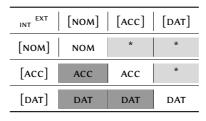
INT/EXT overview in Modern German

INT/EXT overview in Modern German

- INT: yes
- EXT: no

INT/EXT overview in Modern German

- INT: yes
- EXT: no



ınт/exт in Old High German

- INT: yes
- EXT: yes

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- EXT: yes
- (10) **themo min uuirdit forlazan**, min minnot

 RP.DAT less become read_[DAT] less love_[NOM]

 'whom less is read, loves less' (Old High German, Tatian 138:13)

- INT: yes
- EXT: yes
- (10) **themo min uuirdit forlazan**, min minnot

 RP.DAT less become read_[DAT] less love_[NOM]

 'whom less is read, loves less' (Old High German, Tatian 138:13)
- (11) enti aer ant uurta demo **zaimo sprah**and he reply_[DAT] RP.DAT to him speak_[NOM]
 'and he replied to the one who spoke to him'
 (Old High German, MONS 7:24, adapted from Pittner 1995: 199)

- INT: yes
- EXT: yes
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EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

- INT: no
- EXT: no

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- EXT: no
- (12) *Jan lubi komu -kolkwiek dokucza.

 Jan like_[Acc] RP.DAT ever tease_[DAT]

 'Jan likes whoever he teases.'

 (Palish adorated from Citica 2013 often Himmelysich 2017, 17)

(Polish, adapted from Citko 2013 after Himmelreich 2017: 17)

```
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```

EXT: no

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(Polish, adapted from Citko 2013 after Himmelreich 2017: 17)

(13) *Jan ufa komu -kolkwiek wpuścil do domu.

Jan trust_[DAT] RP.DAT ever let_[ACC] to home

'Jan trusts whoever he let into the house.'

(Polish, adapted from Citko 2013 after Himmelreich 2017: 17)

9/2

```
INT: no
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 (Polish, adapted from Citko 2013 after Himmelreich 2017: 17)

- INT: no
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EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*

Table 1: Modern German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Table 1: Modern German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Table 2: Old High German pattern

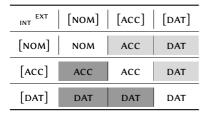


Table 1: Modern German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Table 2: Old High German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

Table 3: Polish pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

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EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Table 2: Old High German pattern

INT EXT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

Table 3: Polish pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

Table 4: unattested pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	*	ACC	DAT
[DAT]	*	*	DAT

Table 1: Modern German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Table 2: Old High German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

Table 3: Polish pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

This presentation

This presentation

- Illustrate generalizations with data
 - NOM < ACC < DAT = stable
 - the INT/EXT parameter
- Derive generalizations from the theory
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 - the INT/EXT parameter

The stable NOM < ACC < DAT

Table 5: Khanty 3sc pronouns (Nikolaeva 1999: 16 after Smith et al. 2019)

	3sg	
NOM	luw	
ACC		
DAT		

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	3sg
NOM	luw
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DAT	

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	3sg
NOM	luw
ACC	luw-e:l
DAT	luw-e:l-na

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	3sg	
NOM	luw	
ACC	luw-e:l	
DAT	luw-e:l-na	

syncretism patterns (cf. Baerman, Brown, and Corbett, 2005)

Table 5: Khanty 3sg pronouns (Nikolaeva 1999: 16 after Smith et al. 2019)

	3sg	
NOM	luw	
ACC	luw-e:l	
DAT	luw-e:l-na	

- syncretism patterns (cf. Baerman, Brown, and Corbett, 2005)
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	3sg	
NOM	luw	
ACC	luw-e:l	
DAT	luw-e:l-na	

- syncretism patterns (cf. Baerman, Brown, and Corbett, 2005)
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Table 5: Khanty 3sg pronouns (Nikolaeva 1999: 16 after Smith et al. 2019)

	3sg	
NOM	luw	
ACC	luw-e:l	
DAT	luw-e:l-na	

- syncretism patterns (cf. Baerman, Brown, and Corbett, 2005)
- agreement (cf. Moravcsik, 1978)
- relativization (cf. Keenan and Comrie, 1977)

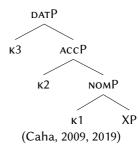
a single trigger

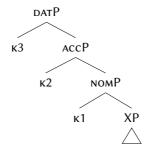
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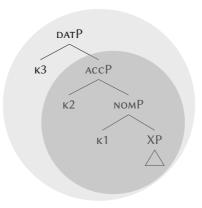
	3sg	
NOM	luw	
ACC	luw-e:l	
DAT	luw-e:l-na	

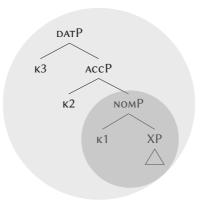
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a single trigger









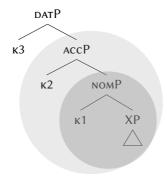


Table 6: Modern German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Table 7: Old High German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	ACC	DAT
[ACC]	ACC	ACC	DAT
[DAT]	DAT	DAT	DAT

Table 8: Polish pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

Table 6: Modern German pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Table 8: Polish pattern

•	EXT INT	[NOM]	[ACC]	[DAT]
	[NOM]	NOM	*	*
	[ACC]	*	ACC	*
	[DAT]	*	*	DAT
			•	•

Table 6: Modern German pattern

INT EXT [NOM]		[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

Table 8: Polish pattern

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

	INT = allowed to surface	Vogel: constraints	Himmelreich: agree
Modern German	yes	x < y	upwards
Polish	no	y < x	downwards

Aim of my dissertation

same syntax same spellout algorithm difference: lexicon (Borer-Chomsky Conjecture)

headless relatives are derived from light-headed relatives, headed by a special type of light head

 headless relatives are derived from light-headed relatives, headed by a special type of light head light head_{EXT} [relative pronoun_{INT} ...]

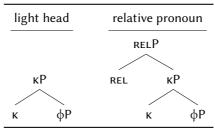
headless relatives are derived from light-headed relatives, headed by a special type of light head
 light head_{EXT} [relative pronoun_{INT} ...]

- headless relatives are derived from light-headed relatives, headed by a special type of light head
 light head_{EXT} [relative pronoun_{INT} ...]
- deletion takes place when the relative pronoun contains the light head as a single constituent

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light head		relativ	relative pronoun	
		RELP		
K	:P	REL	K	P
К	φР		K	φР

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lexical entries \rightarrow internal syntax \rightarrow containment \rightarrow deletion \rightarrow headless relative

EXT INT	[NOM]	[ACC]	DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	ACC	ACC	*
[DAT]	DAT	DAT	DAT

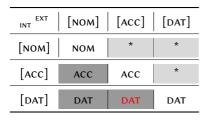


Table 9: Modern German LH and RP



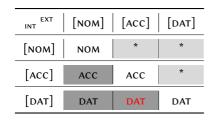
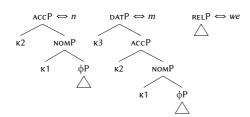


Table 9: Modern German LH and RP

n we-m

lexicon (Nanosyntax, Starke 2009)



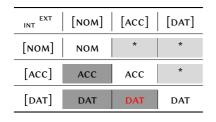
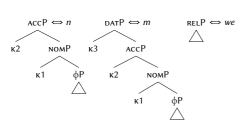


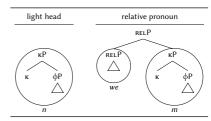
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internal syntax



ACCEXT VS. DATINT in Modern German

ACC_{EXT} vs. DAT_{INT} in Modern German

(15) Ich lade n ein, wem auch Maria vertraut.

I invite[ACC] LH.ACC RP.DAT also Maria trust[DAT]

'I invite whoever Maria also trusts.'

(Modern German, adapted from Vogel 2001: 344)

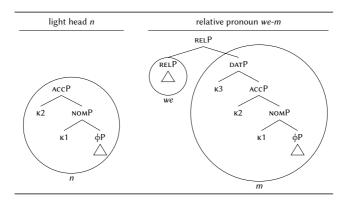
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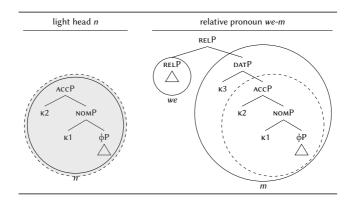
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Light head and relative pronoun in Polish

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EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

EXT INT	[NOM]	[ACC]	[DAT]
[NOM]	NOM	*	*
[ACC]	*	ACC	*
[DAT]	*	*	DAT

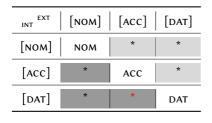


Table 10: Polish LH and RP

LH RP

o-go k-o-mu

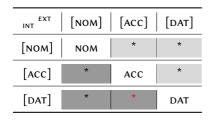
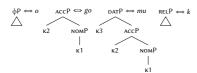


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LH	RP
o-go	k-o-mu

lexicon



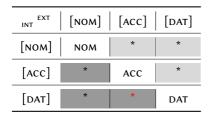
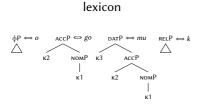
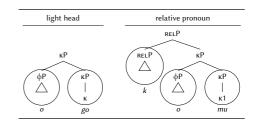


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o-go	k-o-mu

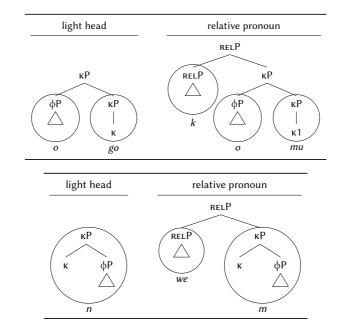
internal syntax





Comparing Polish to Modern German

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ACC_{EXT} vs. DAT_{INT} in Polish

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(16) *Jan lubi ogo komu -kolkwiek dokucza.

Jan like_[ACC] LH.ACC RP.DAT ever tease_[DAT]

'Jan likes whoever he teases.'

(Polish, adapted from Citko 2013 after Himmelreich 2017: 17)

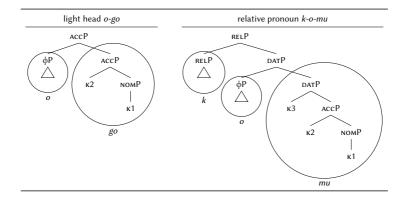
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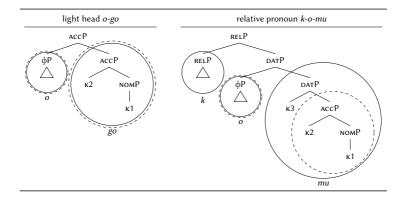
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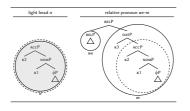
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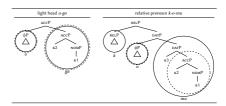


	INT = allowed to surface	
Modern German	yes	
Polish	no	

	INT = allowed to surface	ф + к
Modern German	yes	portmanteau
Polish	no	separate morphemes

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 - is stable across languages

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two factors → one factor: containment

References

Citko, Barbara (2013). "Size matters: Multidominance and DP structure in Polish". In: *Talk at the th Poznan Linguistic Meeting*.

Daskalaki, Evangelia (2011). "Case Mis-Matching as Kase Stranding". In: *University of Pennsylvania Working Papers in Linguistics*. Ed. by Lauren A. Friedman. Vol. 17. Philadelphia: Penn Linguistics Club, pp. 77–86.

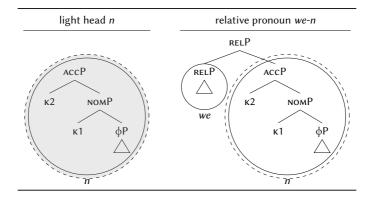
Harbert, Wayne Eugene (1978). "Gothic syntax: a relational grammar". PhD thesis. Urbana-Champaign.

Himmelreich, Anke (2017). "Case Matching Effects in Free Relatives and Parasitic Gaps: A Study on the Properties of Agree". PhD thesis. Universität Leipzig. Vogel, Ralf (2001). "Case Conflict in Modern German Free Relative Constructions: An Optimality Theoretic Treatment". In: *Competition in Syntax*. Ed. by Gereon Müller and Wolfgang Sternefeld. Berlin: Mouton de Gruyter, pp. 341–375. doi: 10.1515/9783110829068.341.

ACC_{EXT} vs. ACC_{INT} in Modern German

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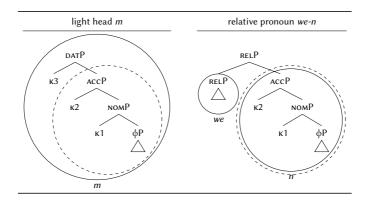
DAT_{EXT} vs. ACC_{INT} in Modern German

(18) *Ich vertraue m, wen auch Maria mag.

trust[DAT] LH.DAT RP.ACC also Maria like[ACC]

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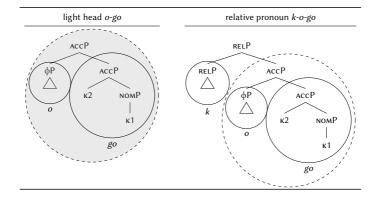
ACC_{EXT} vs. ACC_{INT} in Polish

(19) Jan lubi ogo kogo -kolkwiek Maria lubi.

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(Polish, adapted from Citko 2013 after Himmelreich 2017: 17)



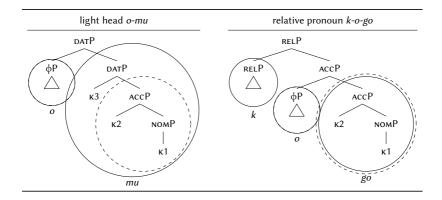
DAT_{EXT} vs. ACC_{INT} in Polish

(20) *Jan ufa omu kogo -kolkwiek wpuścił do domu.

Jan trust $_{[DAT]}$ ELH.DAT RP.ACC ever $let_{[Acc]}$ to home

'Jan trusts whoever he let into the house.'

(Polish, adapted from Citko 2013 after Himmelreich 2017: 17)



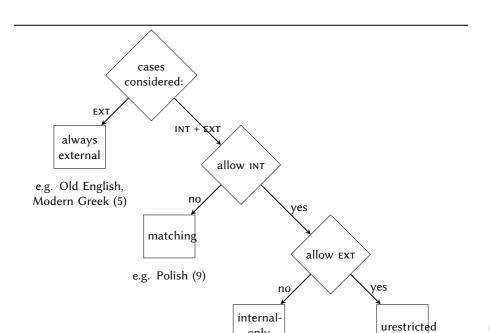
Weak and strong definites as head of a relative clause

- (21) *Fritz ist jetzt im Haus, das er sich letztes Jahr gebaut hat.
 Fritz is now in the house that the REFL last year built has
 'Fritz is now in the house that he built last year.'

 (Modern German, Schwarz 2009: 22 after hartmann1978: 77)
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 (Modern German, Schwarz 2009: 22 after hartmann1978: 77)

Three descriptive parameters generate four language types



Logically possible patterns for headless relatives

	[INT]>[EXT]		[EXT]>[INT]		
	INT	EXT	INT	EXT	language
1		*		*	n.a.
2		*	*		e.g. Old High German
3	\boxtimes	*	*	*	e.g. Modern German
4	*		⊠	*	n.a.
5	*		*		e.g. Old English
6	*		*	*	n.a.
7	*	*	⊠	*	n.a.
8	*	*	*		n.a.
9	*	*	*	*	e.g. Polish

extra stuff * cinque trees * ohg comparisons