

Towards a Cross-Linguistic Typology of Marking Polarity in Embedded Degree Clauses

Julia Bacskai-Atkari
University of Potsdam

julia.bacskai-atkari@uni-potsdam.de

Budapest Linguistics Conference (BLINC)

Budapest

18-20 June 2015

Introduction

embedded degree clauses: AS-clauses and THAN-clauses

- (1) a. Ralph is as tall **as** Mary is.
- b. Ralph is taller **than** Mary is.

Negative polarity

THAN-clauses: negative polarity environment (Seuren 1973)
negative polarity items, *any* licensed

- (2) a. He would rather continue complaining than **lift a finger** to improve his life.
- b. Ralph has spent more time travelling than **any** other professor (has).

Comparative semantics

- ▶ AS-clauses: degree equality ($d=d'$)
- ▶ THAN-clauses: degree inequality ($d \neq d'$)

- (3) a. x is as tall as y: $\exists d \exists d' [\text{TALL}(x, d) \ \& \ \text{TALL}(y, d') \ \& \ (d=d')]$
b. x is taller than y: $\exists d \exists d' [\text{TALL}(x, d) \ \& \ \text{TALL}(y, d') \ \& \ (d > d')]$
c. x is less tall than y: $\exists d \exists d' [\text{TALL}(x, d) \ \& \ \text{TALL}(y, d') \ \& \ (d < d')]$

Proposal

- ▶ question: which head can be responsible for marking negative polarity
- ▶ proposal: either a separate Pol head or a comparative C head (various subtypes)

even overt comparative operators cannot take over this function

→ operators first have to acquire head status - doubling or radical replacement

Negative polarity heads

Italian (Seuren 1973: 535, exx. 45 and 46):

- (4) a. Giovanni è più alto che **non** pensassi.
John is more tall.M that not thought.SBJV.1SG
'John is taller than I thought.'
- b. Giovanni è più alto che pensavo.
John is more tall.M that thought.1SG
'John is taller than I thought.'

French

ne appears with finite verbs (Seuren 1973: 535, ex. 44):

- (5) Jean est plus grand que je **ne** pensais.
John is more tall.M that I not thought.1SG
'John is taller than I thought.'

negative polarity not the same as clausal negation

French: polarity marker is *ne*, but negation carried
rather by *pas* otherwise

Old Hungarian

C head *hogy* ‘that’ + polarity marker *nem* ‘not’

(6) Zōnēkm̄g te meltatlākodatod mṽ èllènōc mēt iob
cease.PRT you indignance.POSS we against because better
hog èlèuènèn zolgallonc Nabuhodonozor nag kiralnac &
that alive serve.1PL Nebuchadnezzar great king.DAT and
alazkoggonc te nēkéd **hog nē** meghaluāc mṽ
cringe.1PL you you.DAT that not PRT.dying.1PL we
vèzèdelmōçbèn mv̄nmagonc mṽ zolgalatōknac
peril.POSS.INE ourselves we service.POSS.DAT
karat zènuèggüc
damage.POSS.ACC suffer.1PL

‘cease to be indignant towards us because it is better for us to serve the great king Nebuchadnezzar alive and to cringe before you that not (=than) to suffer the damages of our service dying’

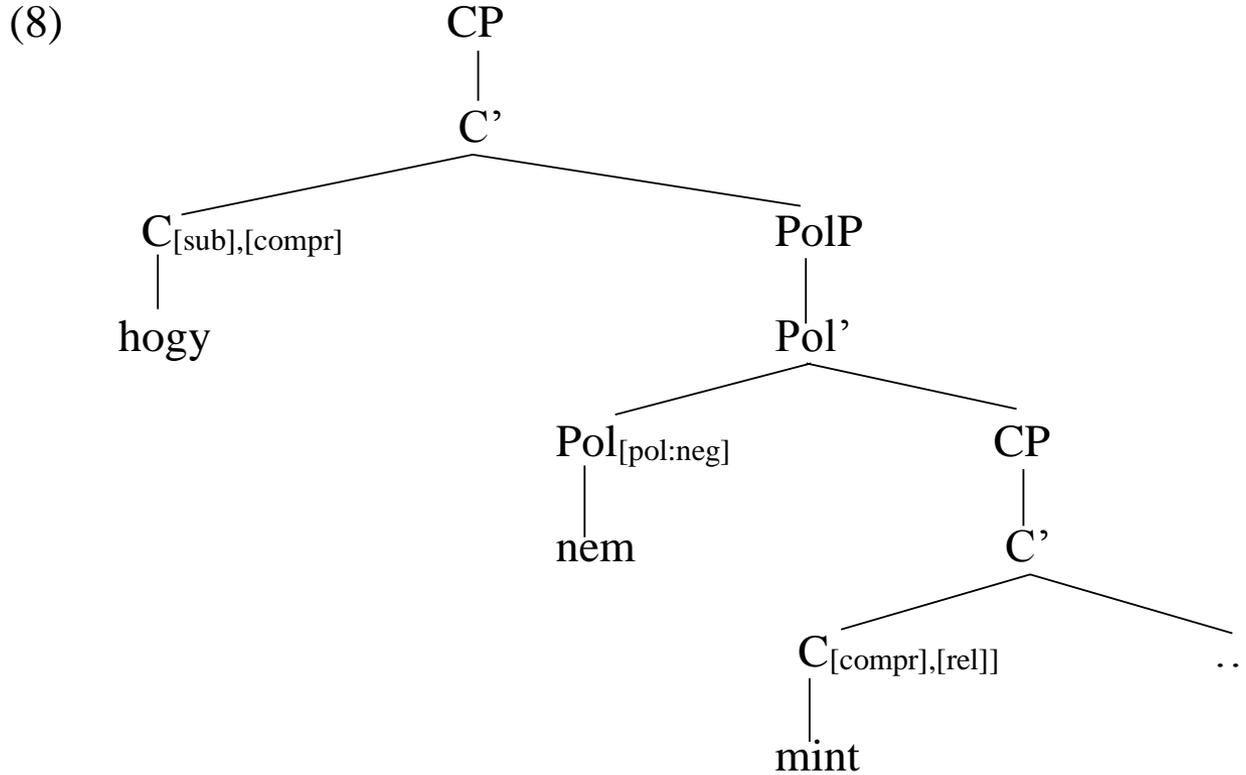
Later Old Hungarian configuration

mint ‘as’ also appears as an overt operator (later lower C head):

(7) Te igyekevezted az isteny zolgalatban jnkab légen arra
you diligence.POSS the divine service.INE rather be.SBJV that.SUB
hog az zent irasnak igy ebevl lelky ertelmet
that the sacred writing.DAT thus this.ELA spiritual sense.ACC
vegy es aytatossagnak keuansagat **hog nem mynt**
take and prayer.DAT desire.POSS.ACC that not than
vduarlokeppen eneklesnek mogyat tegyed
courting singing.DAT mode.POSS.ACC do.SBJV.2SG

‘your diligence in serving God should be directed at gaining a spiritual understanding of the Scripture and a desire for prayer, rather than at taking the opportunity to sing for courting’

Structure



Features

- ▶ [sub]: marking finite subordination; does not have to be overt; encoded by a functional C head
- ▶ [compr]: marking the comparative nature of the clause; has to be overt; encoded either by a functional C head or by an operator (operator movement to the specifier of the lower CP)
- ▶ [rel]: marking the relative nature of the clause; does not have to be overt (language-specific); encoded either by a functional head or an operator; ensures that the comparative operator moves to the left periphery (cf. Chomsky 1977, Kennedy 2002 on comparative operators being relative operators)
- ▶ [pol:neg]: marking the negative polarity of the clause in the absence of clausal negation; has to be overt; encoded by a functional head

The overttness of comparative C heads

possible patterns in Modern Hungarian AS-clauses:

- (9) a. Mari olyan magas, **mint amilyen (magas)** Péter.
Mary so tall as how.REL tall Peter
'Mary is as tall as Peter.'
- b. Mari olyan magas, **mint** Péter.
Mary so tall as Peter
'Mary is as tall as Peter.'
- c. Mari olyan magas, **amilyen (magas)** Péter.
Mary so tall how.REL tall Peter
'Mary is as tall as Peter.'

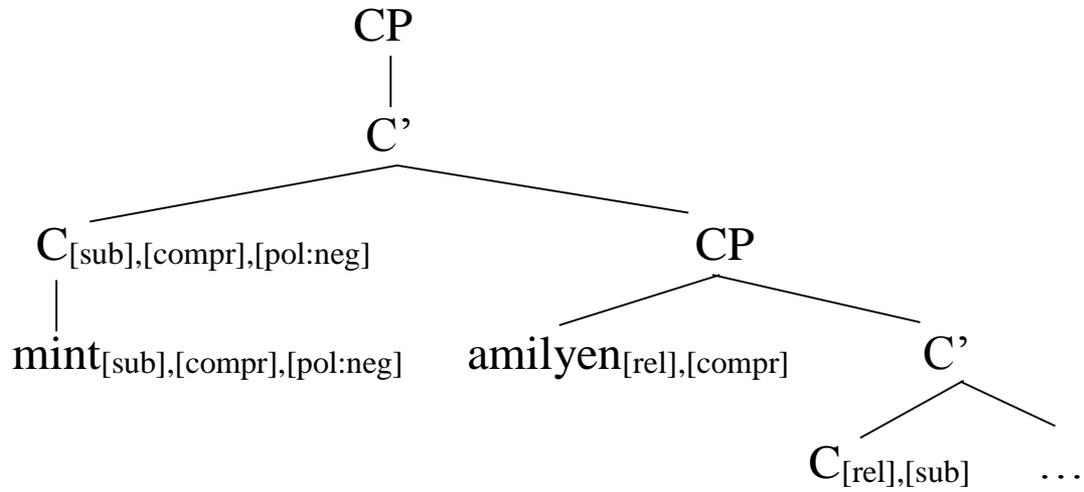
Hungarian comparative subclauses

mint cannot be absent in THAN-clauses:

- (10) a. Mari magasabb, **mint** amilyen (magas) Péter.
Mary taller as how.REL tall Peter
'Mary is taller than Peter.'
- b. Mari magasabb, **mint** Péter.
Mary taller as Peter
'Mary is taller than Peter.'
- c. *Mari magasabb, **amilyen** (magas) Péter.
Mary taller how.REL tall Peter
'Mary is than Peter.'

Structure

(11)



Equatives in Czech

AS-clauses in Czech with the operator *jak*:

- (12) a. Ten stůl je stejně dlouhý, **jak široká** je ta kancelář.
the table is same long as wide is the office
'The table is as long as the office is wide.'
- b. Ten stůl je stejně dlouhý, **jak** je ta kancelář **šíroká**.
the table is same long how is the office wide
'The table is long as long as the office is wide.'

Comparatives in Czech

- (13) a. ?Ten stůl je delší, **než jak široká** je ta kancelář.
the table is longer than how wide is the office
'The table is longer than the office is wide.'
- b. Ten stůl je delší, **než jak** je ta kancelář **široká**.
the table is longer than how is the office wide
'The table is longer than the office is wide.'
- c. *Ten stůl je delší, **jak široká** je ta kancelář.
the table is longer how wide is the office
'The table is longer than the office is wide.'
- d. *Ten stůl je delší, **jak** je ta kancelář **široká**.
the table is longer wide is the office wide
'The table is longer than the office is wide.'

So...

overtness of comparative C heads follows from marking [pol:neg]

- ▶ but the C head does not have to be negative-like, though it can be
- ▶ negative C heads differ from Pol heads: Pol heads co-occur with a real C head

Multiple C heads

double CPs attested in Hungarian comparatives historically -
hogy ‘that’ + *mint* ‘as’

lower C head taking over: passing on features, including
[pol:neg]

patterns in German THAN-clauses (cf. Jäger 2010, Eggs 2006,
Lipold 1983, Weise 1918):

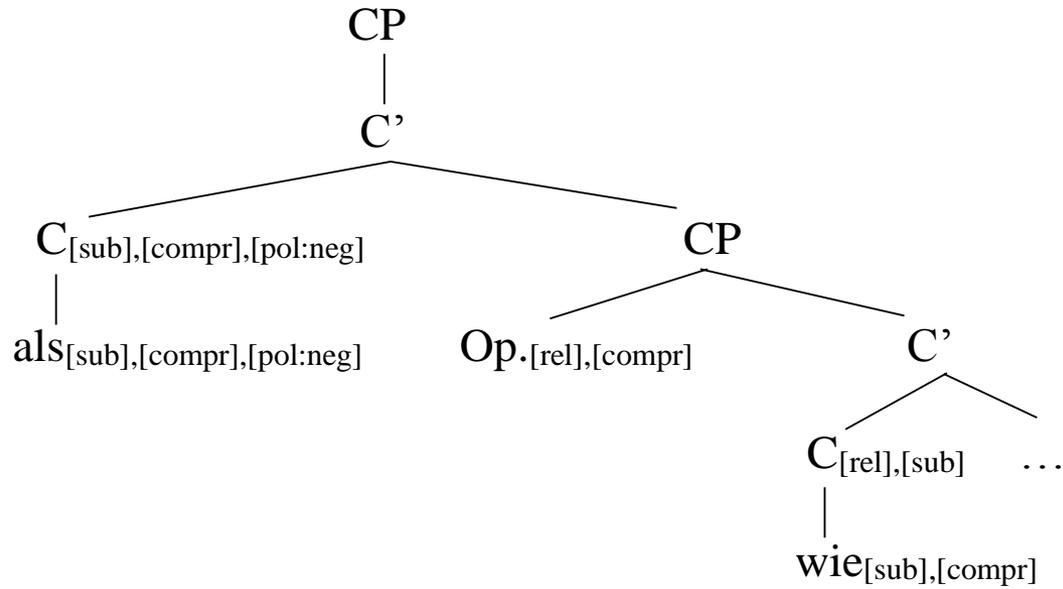
- ▶ Standard German/northern dialects: *als* ‘than’
- ▶ certain dialects (e.g. Alemannic, Hessian): *als wie* ‘than as’
- ▶ southern dialects (e.g. Bavarian): *wie* ‘as’

Patterns in German

- (14) a. Ralf ist größer **als** Peter.
Ralph is taller than Peter
'Ralph is taller than Peter.'
- b. % Ralf ist größer **als wie** Peter.
Ralph is taller than as Peter
'Ralph is taller than Peter.'
- c. % Ralf ist größer **wie** Peter.
Ralph is taller as Peter
'Ralph is taller than Peter.'

Structure

(15)



Comparatives in Serbo-Croatian

basic pattern with *nego* ‘than’ or *no* ‘than’:

(16) a. Pavao je viši **nego** Petar.

Paul is taller than Peter

‘Paul is taller than Peter.’

b. Pavao je viši **no** Petar.

Paul is taller than Peter

‘Paul is taller than Peter.’

Multiple C heads in Serbo-Croatian

lower C heads:

- (17) a. Pavao je viši **nego što** je Petar.
Paul is taller than what is Peter
'Paul is taller than Peter.'
- b. ?Pavao je viši **nego koliko** je Petar.
Paul is taller than as is Peter
'Paul is taller than Peter.'

Radical replacement and Chain Uniformity

recall: Czech *jak* ‘how’ cannot replace *než* ‘than’ as an operator:

- (18) a. ?Ten stůl je delší, ***(než) jak široká** je ta kancelář.
the table is longer than how wide is the office
‘The table is longer than the office is wide.’
- b. Ten stůl je delší, ***(než) jak** je ta kancelář **široká**.
the table is longer than how is the office wide
‘The table is longer than the office is wide.’

Elliptical clauses in Czech

jak is possible in THAN-clauses as a C head iff the clause is elliptical:

- (19) a. Marie je vyšší, **jak** (*je) Karel.
Mary is taller how is Charles
'Mary is taller than Charles.'
- b. Renault stojí víc **jak** (*stojí) Dacia.
Renault costs more how costs Dacia
'A Renault costs more than a Dacia.'

Embedded *wh*-questions in Alemannic and Bavarian

regular pattern in Alemannic/Bavarian: *wh*-phrase + *dass* ‘that’ in the C head position

Doubly Filled COMP effect

but: not with head-sized *wh*-element - complementary distribution with *dass*

(20) I woass aa ned, **wer** (***dass**) allas am Sunndoch in
I know too not who that all at Sunday in

da Kiach gwen is.

the church been is

‘I don’t know either who all has been to church on Sunday.’

Chain Uniformity

question of Chain Uniformity (cf. Chomsky 1995)

phrase moving to a head position

Bayer and Brandner (2008): dual status of head-sized phrases

but: in embedded questions the operator moves to a head position of the same CP that hosts operators otherwise

Comparatives

jak has to move to a C head responsible for [pol:neg] not for [rel]

otherwise *jak* would be preceded by a separate head (*než*)

reason: lower CP not generated (similar to Hungarian elliptical comparatives)

but: the [pol:neg] CP not filled by merging *než* but by moving *jak*

ellipsis: the visible base-generation site of *jak* would cause an operator interpretation

mismatch, [rel] not available in situ (\leftrightarrow *wh*)

radical replacement of complementiser by operator: dual status, not grammaticalisation

Conclusion

cross-linguistic typology of polarity marking:

Types		Examples
(I)	separate Pol head	<ul style="list-style-type: none">● Old Hungarian <i>nem/sem</i>● Italian <i>non</i>● French <i>ne</i>
(II)	incorporated negative C head	<ul style="list-style-type: none">● English dialectal <i>nor</i>● Old/Middle High German <i>wan</i>● Swiss German dialectal <i>wan/weder</i>● Czech <i>než</i>● Polish <i>niz</i>● Serbo-Croatian <i>nego/no</i>
(III)	THAN-C head	<ul style="list-style-type: none">● English <i>than</i>● German <i>als</i>● Old High German <i>denn</i>● Dutch <i>dan</i>● Russian <i>chem</i>
(IV)	comparative C head	<ul style="list-style-type: none">● German dialectal <i>wie</i>● Hungarian <i>mint</i>
(V)	more general C head	<ul style="list-style-type: none">● Italian <i>che</i>● French <i>que</i>

Thank you!
Danke!



References

- ▶ Bacskai-Atkari, Julia (2014a) *The Syntax of Comparative Constructions: Operators, Ellipsis Phenomena and Functional Left Peripheries*. Potsdam: Universitätsverlag Potsdam.
- ▶ Bacskai-Atkari, Julia (2014b) Structural Case and Ambiguity in Reduced Comparative Subclauses in English and German. *Acta Linguistica Hungarica* 61.4. 363-378.
- ▶ Bacskai-Atkari, Julia (2014c) Cyclical Change in Hungarian Comparatives. *Diachronica* 31.4. 465-505.
- ▶ Bacskai-Atkari, Julia and Gergely Kántor (2011) Elliptical Comparatives Revisited. In: Vadim Kimmelman, Natalia Korotkova and Igor Yanovich (eds.) *Proceedings of MOSS 2: Moscow Syntax and Semantics*. Cambridge, MA: MIT Working Papers in Linguistics. 19-34.
- ▶ Bacskai-Atkari, Julia and Gergely Kántor (2012) Deletion in Hungarian, Finnish and Estonian Comparatives. *Finno-Ugric Languages and Linguistics* 1.1-2. 44-66.

References

- ▶ Bayer, Josef and Ellen Brandner (2008) On Wh-Head-Movement and the Doubly-Filled-Comp Filter. In: Charles B. Chang and Hannah J. Haynie (eds.) *Proceedings of the 26th West Coast Conference on Formal Linguistics*. Somerville, MA: Cascadilla Proceedings Project. 87-95.
- ▶ Borsley, Robert D. and Ewa Jaworska (1981) Some Remarks on Equatives and Related Phenomena. *Studia Anglica Posnaniensia* 13. 79-108.
- ▶ Chomsky, Noam (1977) On WH-Movement. In: Peter Culicover et al. (eds.) *Formal Syntax*. New York: Academic Press. 71-132.
- ▶ Chomsky, Noam (1995) *The Minimalist Program*. Cambridge, MA: MIT Press.
- ▶ Dryer, Matthew S. (2013) Negative Morphemes. In: Matthew S. Dryer and Martin Haspelmath (eds.) *The World Atlas of Language Structures Online*. Leipzig: Max Planck Institute for Evolutionary Anthropology. Available at <http://wals.info/chapter/112> (Last accessed: 14 May 2015).
- ▶ Eggs, Friederike (2006) *Die Grammatik von als und wie*. Tübingen: Narr.
- ▶ Jäger, Agnes (2010) Der Komparativzyklus und die Position der Vergleichspartikeln. *Linguistische Berichte* 224. 467-493.

References

- ▶ Kennedy, Christopher (2002) Comparative Deletion and Optimality in Syntax. *Natural Language and Linguistic Theory* 20. 553-621.
- ▶ Lipold, Günter (1983) Möglichkeiten der Komparation in den deutschen Dialekten. In: Werner Besch et al. (eds.) *Dialektologie: Ein Handbuch zur deutschen und allgemeinen Dialektforschung*. Berlin: Mouton de Gruyter. 1232-1241.
- ▶ Rizzi, Luigi (1997) The Fine Structure of the Left Periphery. In: Liliane Haegeman (ed.) *Elements of Grammar*. Dordrecht: Kluwer. 281-337.
- ▶ Rizzi, Luigi (2004) Locality in the Left Periphery. In: Adriana Belletti (ed.) *Structures and Beyond: The Cartography of Syntactic Structures, Volume 3*. Oxford: Oxford University Press. 223-251.
- ▶ Seuren, Pieter (1973) The Comparative. In: Ferenc Kiefer & Nicolas Ruwet (ed.) *Generative Grammar in Europe*. Dordrecht: D. Reidel. 528-564.
- ▶ Weise, Oskar (1918) Die vergleichenden Konjunktionen in den deutschen Mundarten. *Zeitschrift für deutsche Mundarten* 13. 169-181.