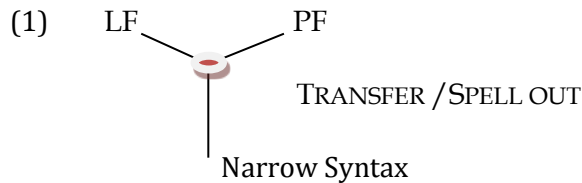


SYNTACTIC DOMAINS AT PF, PF DOMAINS IN SYNTAX

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1. INTRODUCTION. THE ARCHITECTURE OF GRAMMAR

Y-model:



Virtual conceptual necessity: postulate only what is necessary.

(2) Strong Minimalist Thesis
“Language is an optimal solution to legibility conditions” (Chomsky 2000:7)

- What are these “legibility conditions?”
- Taking the SMT seriously: interface conditions are determined by phonology.
 - Syntax is “instructed” by what phonology can interpret. One step further: syntax is designed like this because of the way PF is organized.
 - Not just domains for application of phonological rules, but about what phonology and prosody actually “see”.
- Two consequences:
 - We can build phonological domains directly in Narrow Syntax (NS)
 - Prosody necessarily applies to the “left periphery”

1.1. OVERVIEW

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- (4) (bá-níké ú-Síphó íf-maali) [Zulu]
 2SUBJ-give CL1-Sipho CL9-money
 'They gave Sipho money.'

Cheng and Downing (2012: 8)

- Vowel lengthening is the prosodic phrase boundary (for tone spreading)
 - PIC would predict: [CP [TP subject verb [vP [VP **IO DO**]]]]
 - But: no prosodic boundary between *v* and its complement

D'Alessandro & Scheer (forthcoming)

- Empirical evidence of some correspondence between PIC-induced domains and domains of application of phonological (and morphological?) rules

but

- Phase theory must be made more flexible

2.2. CASE STUDY 1. PASSIVES AND /A/-INSERTION IN ABRUZZESE

2.2.1. ACTIVE VS PASSIVE

Active	Passive
(5) a. so vistə am seen 'I have seen'	(6) a. so vv istə am seen 'I am seen'
b. so cunzideratə am considered 'I have considered'	b. so cc unzideratə am considered 'I am considered'

- the same lexical item
 - triggers RF in passive constructions
 - does not trigger RF in active constructions (Biberauer & D'Alessandro 2006)
- background
 - transitive active *v* is endowed with a PIC at PF
 - Ariellese has a richer/layered *v* (D'Alessandro & Ledgeway 2010, D'Alessandro 2013)
 - *v* encodes voice (see Collins 2005 and Roberts 2010)
 - transitive active *v* (which is layered) is a phase head in Abruzzese (see D'Alessandro & Roberts (2008, 2010) on auxiliary selection and participial agreement, D'Alessandro & Ledgeway (2010) on auxiliaries in Abruzzese).
- analysis (Biberauer & D'Alessandro 2006)
 - ACTIVE
 - *so* sits in T and *vistə* in V;
 - *v* is transitive active, hence a phase head (*v**). It triggers spell-out of its complement;
 - *so* and *vistə* are thus separated by a PIC-endowed phase head
 - PASSIVE
 - *v* is not a phase head (passive *v* is defective, see Chomsky 2005, 2008)
 - hence *so* in T and the past participle in V are NOT separated by a PIC-defined boundary
 - *so* and *vistə* are thus neither separated by a PIC-defined "boundary" neither at NS nor at PF

Modular PIC: languages choose which access points are endowed with a PIC

language A:

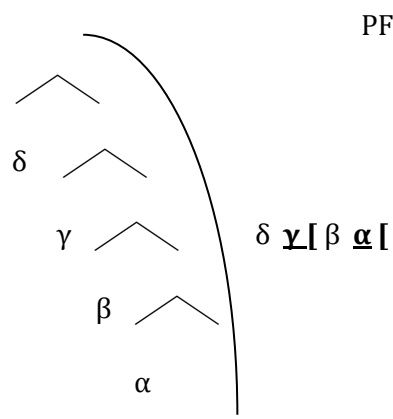
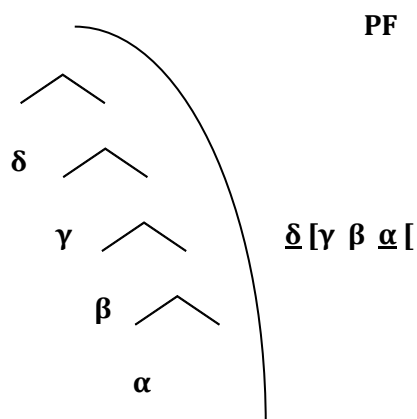
language B:

phase heads α and δ have a PIC at PF

phase heads α and γ have a PIC at PF

phase heads β and γ do not

phase heads β and δ do not



(D'Alessandro & Scheer forthcoming:17)

2.2.3. BACK TO ABRUZZESE

PIC at syntax only, PIC at PF, PIC at both

(12)

	PIC at syntax	* PIC at PF	RF
Transitive active <i>v</i>	+	+	-
unaccusative <i>v</i>	-	+	-
passive <i>v</i>	-	-	+

- C does not block RF in Abruzzese

(13) lu waglione chi ssi vistə
 the boy that are seen
 'the boy that you saw'

(14) Jè mmejə chə tti sti zittə
 is better that SELF stay quiet
 'It is better if you keep quiet'

- C is a phase head (C*) in syntax

- but it is not endowed with a PIC at PF (in Abruzzese/Arielli)

2.2.3. T0 SUM UP

- Both the complements of CP and vP are spell-out domains, i.e. C and transitive active v are phase heads.
- vP, but not CP, is endowed with a PIC at PF.
- PIC-defined spelled-out chunks are invisible for syntactic computation
- PIC is also active at PF
- PIC-defined spelled-out chunks may be invisible for phonological computation [PIC at PF].

2.2.4. BACK TO BANTU

RECALL: Cheng & Downing (2012): phonologically relevant domains that cannot be described by phase structure *as it stands*.

- (15) (bá-níké ú-Síphó íí-maali) [Zulu]
2SUBJ-give CL1-Sipho CL9-money
'They gave Sipho money.'

Cheng and Downing (2012: 8)

Modular PIC: there is a PIC at syntax but not at PF.

The V moves to T cyclically (PIC at syntax).

2.3. PHASE-HEAD MARKING IN ABRUZZESE

2.3.1. CASE-STUDY 3. [A] INSERTION IN ARIELLESE

- Two means of marking the phase head:

- comp reduplication

- [a] insertion

- (16) Jə so dittə **ca** sə lə vɔ fa **occhə** le faccə
him am said that if it wants do that it does
'I told him that if he wants to do it he may do it'

- (17) *Jə so dittə **occhə** sə lə vɔ fa **occhə** le faccə
him am said that if it wants do that it does

[a] insertion: obscure distribution

- (18) Comə?
how
'How?'

- (19) Coma sti?
how you-stay
'How are you?'

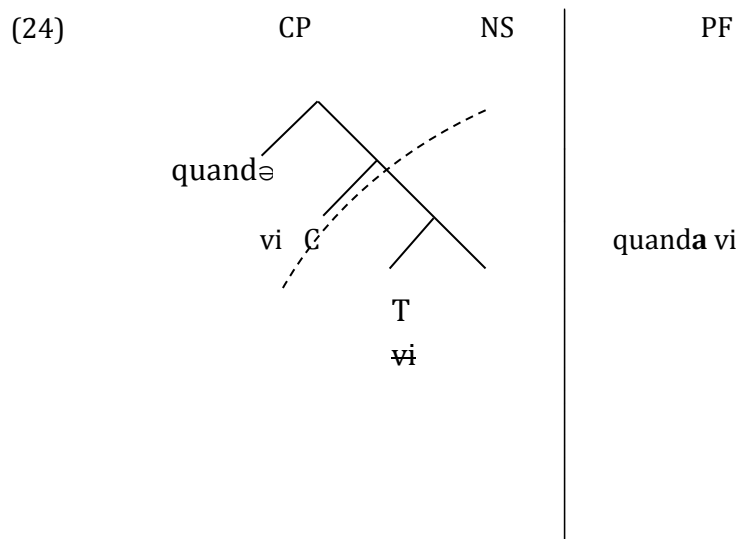
- (20) a. vijə b. vija novə
street street new
'street' 'new street'

[a] is inserted to mark the C head

(21) a. *Quandə*
 when
 'When?'
 b. *Quanda vi*
 when you-come
 'When are you coming?'

(22) a. *Chi ccosə*
 which thing
 'What?'
 b. *chi ccosa vu?*
 which thing you-want
 'What do you want?'

(23) a. *chə*
 what
 'What?'
 b. *ch'(a) si fattə?*
 what are done
 'What have you done?'



(see D'Alessandro & Van Oostendorp 2013 on [a] insertion on masculine plural nouns)

3. DOMAINS OF LEXICAL INSERTION AT PF. AGREEMENT AND ANTI-AGREEMENT IN ITALIAN VARIETIES

3.1. CASE STUDY 4. PARTICIPIAL AGREEMENT IN ITALIAN

Insertion of agreement endings (D'Alessandro & Roberts 2008)

In Standard Italian past-participle agreement is associated with:

- internal arguments that are promoted to subject position (passives, unaccusatives, medio-passive *si*) (25a, b, c);
- reflexive constructions (argued to also involve promotion of the "antecedent" of the reflexive [Kayne (1988)]) (25d);
- preposed direct-object clitics.

(25) a. *Le ragazze sono arrivate.*
 the girls-fem pl are arrived-fem pl
 'The girls have arrived.'

b. *Le ragazze sono state arrestate.*
 the girls-fem pl are been-fem pl arrested-fem pl
 'The girls have been arrested.'

- c. Si sono viste le ragazze.
 SI are seen-fem pl the-fem pl girls-fem pl
 'We have seen the girls/the girls have been seen.'
- d. Le ragazze si sono guardate allo specchio
 the girls selves are looked-fem pl at-the mirror
 'The girls have looked at themselves in the mirror.'
- e. Le abbiamo salutate.
 them-fem pl we-have greeted-fem pl
 'We have greeted them.'
- f. *Abbiamo salutate le ragazze.
 have-1st pl greeted-fem pl the-fpl girls-fem pl
 'We have greeted the girls'

CONDITION ON THE MORPHO-PHONOLOGICAL REALISATION OF AGREEMENT (D'Alessandro & Roberts 2008:482)

(26) A. Given an Agree relation A between Probe P and Goal G, morphophonological agreement between P and G is realised iff P and G are contained in the complement of the minimal phase-head H.

B. XP is the complement of a minimal phase head H iff there is no distinct phase head H' contained in XP whose complement YP contains P and G.

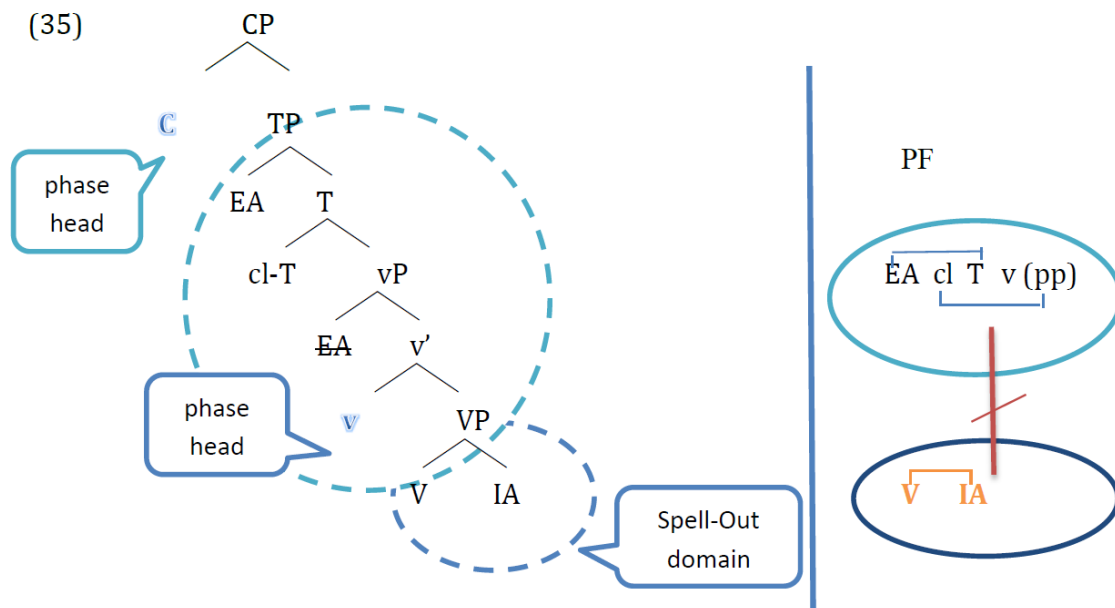
(26) means that morpho-phonological agreement is sensitive to the PIC

Q: Why does the past participle not show agreement with the postverbal object?

A: Overt morphophonological agreement in Standard Italian is constrained by the PIC.

- (27) Ho mangiato la mela.
 I-have eaten-masc sg the-fem sg apple-fsg
 'I have eaten the apple.'

- (28) *Ho mangiata la mela.



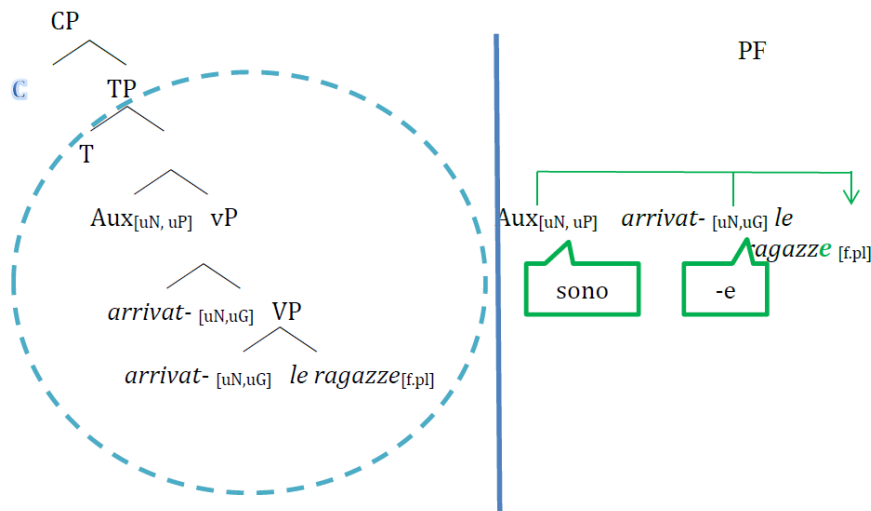
[D'Alessandro 2014, ch3:10]

UNACCUSATIVES

(29) Le ragazze sono arrivate.
 the girls-fem pl are arrived-fem pl
 'The girls have arrived.'

- Unaccusative *v* (if at all): no PIC.
- Morphophonological agreement between the participle and the direct object is possible.

(30)



[D'Alessandro 2014, ch2:9]

PASSIVES: NO PIC

(31) Le ragazze sono state arrestate.
 the girls-fem pl are been-fem pl arrested-fem pl
 'The girls have been arrested.'

OBJECT CLITICS

(32) Le abbiamo salutate.
 them-fem pl we-have greeted-f pl
 'We have greeted them.'

- Past-participle agreement is triggered by clitic-movement (Kayne (1989), Belletti (2001)).
- The clitic moves to the same spell-out domain as the past participle

3.2. CASE STUDY 4. ANTI-AGREEMENT EFFECTS IN ITALIAN DIALECTS

Along the same lines:

Anti-agreement effects in Florentine and other central varieties:

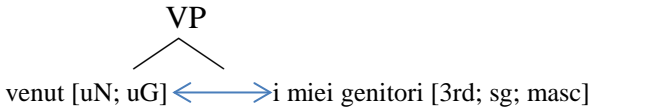
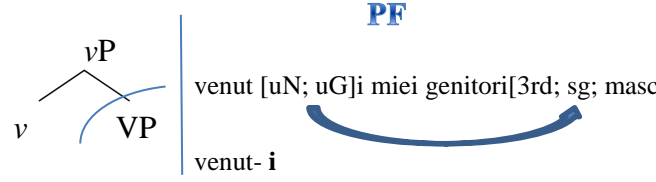
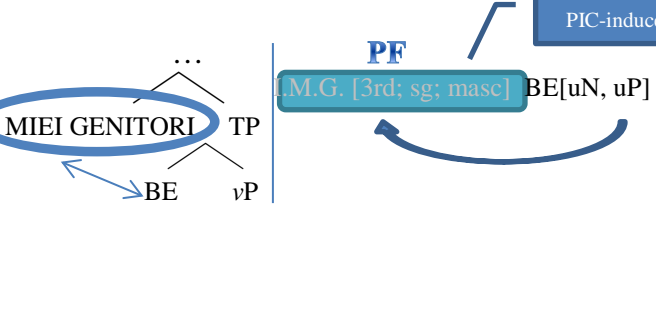
(33)	a. Questo,		lo fa	sempre	i bambini [Marchigiano]
	b. *Questo,	i bambini	lo fa	sempre	
	c. Questo,	i bambini	lo fanno	sempre	
	this-acc	the children	it-acc does/do always		the children-nom

[Cardinaletti 1997]

(34) I MIEI GENITORI è venuti, non i tuoi [Siena]
 the my parents-M.PL is-3RD.SG come-M.PL not the-PL yours-M.PL
 'My parents came, not yours'

1-to-1 mapping: PIC domains at syntax → lexical insertion domains at PF

(35)

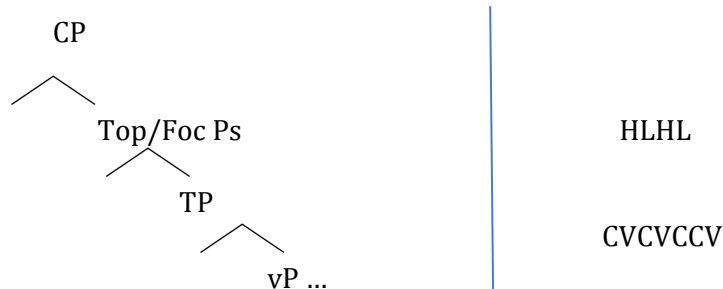
<p>a. Merge {<i>i miei genitori</i>; V (<i>venut-</i>)} b. Agree (<i>i miei genitori</i>); (<i>venut-</i>)</p>	
<p>c. Merge {VP; <i>v</i>} d. Transfer VP e. AT PF: [<i>venut-</i> retrieves the 3rd pl info from <i>i miei genitori</i>] Insertion of the masc pl ending <i>-i</i></p>	
<p>e. Merge T, <i>vP</i> f. IMerge {<i>i miei genitori</i>; TP} → FocP g. Merge C, Foc P h. Transfer FocP g. AT PF: [BE cannot retrieve the 3rd plural info from <i>I MIEI GENITORI</i>] Insertion of the default 3rd sg ending.</p>	

4. PROSODY AND THE LEFT PERIPHERY

4.1. PROSODY NECESSARILY APPLIES TO THE "LEFT PERIPHERY" (joint work with Marc van Oostendorp)

- Prosody "reads" only information structure material, i.e. it targets the higher part of the tree.
- The higher part of the syntactic tree is on another level, ABOVE the lower part of the tree, just like prosody is ABOVE segmental material.

(36)

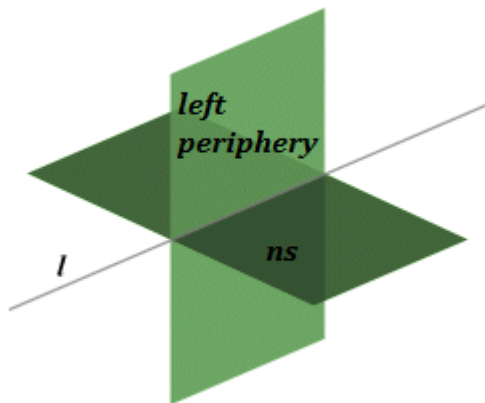


- The syntactic tree is organized like this by conceptual necessity: prosody (suprasegmental) can only be on top of phonology (segmental) material. Information structure can only be expressed on top of argument structure.

(On different dimensions in syntax, see Uriagereka's 2002 warping and Uriagereka & Pietroski 2002).

Different plane?

(37)



4.1.1. SYNTAX-PROSODY

- Prosody (e.g., intonation, phrasing) targets the left periphery and never anything else
- One can't express Nominative by intonation in any (non-tonal) language; one can't express Accusative by means of truncation in any language

BUT

- One can express wh- (questions) by means of pure intonation (i.e. prosody)
- One can express Topics and Foci by means of intonation
- One can express imperatives by means of intonation
- One can express vocatives by means of intonation
- prosody can only target the left periphery, not “core” argumental syntax
- Exocentric phonological behavior is a result of:
 - the peripheral/external syntactic position and
 - the fact that discourse-related, pragmatic-syntactic features (corresponding to Fregean Urteil- content becoming judgment; Frege 1879) are read by a different phonological cycle than φ - and Case features (corresponding to Fregean Inhalt-pure content).
- In other words: Prosody targets “edge/information-related features” (*lato sensu*) (Chomsky 2000, 2001, 2008), i.e. features that trigger movement to the left periphery for

interpretational reasons AND that are encoded on functional heads in the extended left periphery. (Generalized EPP features excluding A-mvt features) .

PROSODY READS/INTERPRETS INFORMATION STRUCTURE FEATURES
PHONOLOGY READS/INTERPRETS Φ AND STRUCTURAL CASE FEATURES

- Vocative can be realized by means of prosody; Nominative cannot.

4.2. VOCATIVES IN CENTRAL AND SOUTHERN ITALIAN

4.2.1. THE PHONOLOGY OF VOCATIVES

Vocatives in Southern Italian dialects are obtained by truncation

- (38)
- a. Mari' [Maria]
 - b. Mariacarme' [Mariacarmela]
 - c. Andreadalpo' [Andrea dal Pozzo]

Truncation, but not to a prosodic constituent.

4.2.2. THE SYNTAX OF VOCATIVES

- What we know about vocatives (from Schaden 2010)
 - Vocatives are nominal elements referring to the addressee of a sentence
 - In European grammatical tradition vocative is taken to be a case form
 - Vocative does not serve as an argument of the verb, and is set off from the rest of the sentence by some special intonation (Zwicky 1974: 777).
- Three syntactic factors (Moro 2004):
 - The Vocative phrase does not belong to the thematic grid of the main predicate of the clause
 - The Vocative phrase may also not co-occur with an article
 - The Vocative phrase may also be preceded by an emphatic interjection (or particle)
- 1, 2, and 3 are weak facts to claim that there is a vocative Case, but they show that at least Vocative phrases behave differently from argumental NPs.

Q: Are vocatives in the "tree"? If so, where are they?

Moro: they are in the left periphery, somewhere higher than Force, on the basis of examples like:

- (39)
- | | | |
|-----------------------------|----------------------|-----------------|
| O Pietro, Gianni baciava | Maria in giardino | |
| o Pietro, Gianni kissed | Maria in garden | |
| 'Pietro, Gianni was kissing | Maria in the garden' | (Moro 2004:259) |

- (40)
- | | |
|---|-----------------|
| Gianni pensa, (o)Maria, che Pietro abbia letto un libro | |
| 'Gianni thinks, (o) Maria, that Pietro has read a book' | (Moro 2004:258) |

- Word order proposed for Italian:

- (41) Voc > Force > (Top > Foc > Top) Fin (Moro 2004)

- Espinal (2011): two possible positions for vocatives:

- In the tree (above Force, like Moro claims)
- Parentheticals (i.e. in any position in the clause)
- Vocatives are either ON the Vocative projection or they are “linked” to it

4.2.3. BACK TO PHONOLOGY

- Two constraints (Alber & Arndt-Lappe 2009, Alber 2010):
 - ANCHOR- LEFT: makes sure that the initial segment is preserved
 - ANCHOR-STRESS: makes sure that the stressed vowel is the end
 - + some Contiguity constraint which preserves everything in between.
- Problems with this analysis:
 - A constraint aligning a stressed vowel with the edge of a phrase is somewhat suspicious for a template: neither the truncated form, nor the thing which is deleted is a prosodic constituent
 - Why would we choose truncation for vocatives (and imperatives?) and not for other morphological 'cases' / verbal moods?

Göksel & Pöchtrager (2010): vocatives are realized exclusively by prosodic means in Austrian German and Turkish.

(42)

	σ	AG	TR	σ σ	AG	TR	σ σ σ	AG	TR	σ σ σ σ	AG	TR
<i>Nom.</i>	Háns Cán			Márkus Aslí			Flórian Hüseýin			Alexánder Húsamettin		
<i>Voc.</i>	Háns Cán			Márkus Aslí			Flórian Hüseýin			Alexánder Húsamettin		
<i>Surprise address</i>	Háns Cán			Márkus Aslí			Flórian Hüseýin			Alexánder Húsamettin		
<i>Calling</i>	Há-ans Cá-an			Márkus Aslí			Flórian Hüseýin			Alexánder Húsamettin		

Their conclusions:

- Given that the patterns are (i) robust, (ii) systematic and (iii) in their definition crucially rely on linguistic notions (syllable, word edges etc.), they must be seen as part of the language system, not just as functional structures manifesting themselves in language use only.
- The rich array of categories expressed only by prosody, e.g. the vocative, argues against a notion of morphology that relies on strict serialisation of morphological markers; rather, the phonological material representing different categories is superimposed over each other.

4.3. VOCATIVES IN SOUTHERN ITALIAN DIALECTS

Recall: vocatives in SIDs are obtained by means of truncation of anything that follows the stressed vowel:

(43) Mariagiova'

PROPOSAL: The exponent of the vocative is (at least) a pitch accent, which is specified for being at the same time a boundary tone (i.e. T*%).

Pitch accent --> makes it want to be on the stressed syllable;

Boundary tone --> makes it want to be at the edge of the constituent.

(from Vanrell & Cabré 2011)

Conflicting requirements!

The paradox is resolved by making the stressed vowel be exactly on the edge of the constituent – i.e. by truncation of everything following it.

4.4. BACK TO FEATURES AND PROSODY

- φ -features and “informational” features are derivationally distinct
- syntax has, as it were, two independent cycles: first, one in which φ -features operate, and afterwards one in which edge features are operative.
- Each of these two cycles has its own spell-out: the former to segmental phonology (and propositional semantics = Frege's Inhalt, content), the second to intonational and other types of prosodic phonology (and discourse semantics = Frege's Urteil, judgement).
- The reason why intonation etc. can only play a role in the second cycle is obvious: syntactic heads which phonologically consist of only suprasegmental material can only be realized if segmental material has already been provided on an earlier cycle.

5. CONCLUSIONS

- PF informs syntax
- If we have a domain-defining mechanism in NS we don't need to replicate it at PF
- PF domains also need to be already present at syntax
- Syntactic trees are structured as we know by NECESSITY: they reflect PF-internal architecture.

REFERENCES

- [Alber, Birgit. 2010]. An Exploration of Truncation in Italian. In *Working Papers in Linguistics* vol. 3: 1-30, ed. P. Staroverov, D. Altshuler, A. Braver, C. Fasola, and S. Murray. New Brunswick, NJ: LGSA. [Alber, B. & S. Lappe] 2009. 'Rund um die Typologie von Kurzwörtern'. Paper presented at GGS 2009 Leipzig. [Biberauer, Theresa, and D'Alessandro, Roberta]. 2006. Syntactic Doubling and the Encoding of Voice in Eastern Abruzzese. *Proceedings of the West Coast Conference on Formal Linguistics* 25:87-95. [Cardinaletti, Anna. 1997]. Subjects and clause structure. In *The New Comparative syntax*, ed. by Liliane Haegeman. London: Longman. [Cheng, Lisa, and Downing, Laura. 2012]. Prosodic domains do not match spell-out domains. *McGill Working Papers in Linguistics* 22:1-14. [Cheng, Lisa, and Downing, Laura. Forthcoming]. "Phasal Syntax = cyclic phonology?" *Syntax*. [Chomsky, Noam. 2000]. Minimalist inquiries: the framework. In *Step by Step. Essays on Minimalist Syntax in Honor of Howard Lasnik*, eds. Roger Martin, David Michaels and Juan Uriagereka, 89-155. Cambridge, Mass.: MIT Press. [Chomsky, Noam. 2001]. Derivation by Phase. In *Ken Hale: A Life in Language*, ed. Michael Kenstowicz, 1-52. Cambridge, Mass.: MIT Press. [Chomsky, Noam. 2004]. Beyond explanatory adequacy. In *Structures and Beyond. The cartography of syntactic structures*, Volume 3, ed. Adriana Belletti, 104-131. Oxford: Oxford University Press. [Chomsky, Noam. 2005]. Three factors in language design. *Linguistic Inquiry* 36:1-22. [Chomsky, Noam. 2008]. On Phases. In *Foundational Issues in Linguistic Theory*, eds. Robert Freidin, Carlos Otero and Maria-Luisa Zubizarreta, 133-166. Cambridge, MA.: MIT Press. [Chomsky, Noam. 2012.] Foreword. In *Phases. Developing the framework*, ed. Angel J. Gallego, 1-9. Berlin: Mouton de Gruyter. [Collins, Christopher. 2005.] A smuggling approach to the passive in English. *Syntax* 8:81-120. [D'Alessandro, Roberta. 2013.] Merging Probes. A typology of person splits and person-driven differential object marking. Ms. Leiden University. [http://ling.auf.net/lingbuzz/001771]. [D'Alessandro, Roberta. 2014.] *Syntactic Agreement*. Ms, Leiden University. To appear in the *Key Topics in Syntax* series, Cambridge University Press. [D'Alessandro, Roberta, and Ledgeway, Adam. 2010.] The Abruzzese T-v system: feature spreading and the double auxiliary construction. In *Syntactic Variation. The dialects of Italy*, eds. Roberta D'Alessandro, Adam Ledgeway and Ian Roberts, 201-210. Cambridge: CUP. [D'Alessandro, Roberta and Roberts, Ian. 2008.] Movement and agreement in Italian past participles and defective phases. *Linguistic Inquiry* 39:3. [D'Alessandro, Roberta, and Roberts, Ian. 2010.] Past

participle agreement in Abruzzese: Split auxiliary selection and the null-subject parameter. *Natural Language and Linguistic Theory* 28:41-72. [D'Alessandro, Roberta and Tobias Scheer. Forthcoming.] Modular PIC. *Linguistic Inquiry*. [Frege, Gottlob. 1879.] *Begriffsschrift. Eine der arithmetischen nachgebildete Formelsprache des reinen Denkens*. Halle. [Göksel. A. & M, Pöchtrager 2010.] 'The prosodic vocative and its kin'. Vocative! workshop, Bamberg University. [Kayne, Richard. 1988.] Romance se/si. *GLOW Newsletter* 20:33. [Moro, Andrea. 2004.] Notes on vocative case: A case study in clause structure. In Quer et al. *Romance Languages and Linguistic Theory 2001*. 247-261. [Nespor, Marina. 1993.] *Fonologia*. Bologna: Il Mulino. [Nespor, Marina, and Vogel, Irene. 1986.] *Prosodic Phonology*. Dordrecht: Foris. [Selkirk, Elisabeth. 1981 [1978].] On prosodic structure and its relation to syntactic structure. In *Nordic Prosody II*, ed. Thorstein Fretheim, 111-140. Trondheim: TAPIR. [Uriagereka, Juan. 2002.] WARPS. Some thoughts on categorization. In *Derivations. Exploring the dynamics of syntax*, ed. Juan Uriagereka, 288-317. London: Routledge. [Uriagereka, Juan, and Pietroski, Paul. 2002.] Dimensions of natural language. In *Derivations. Exploring the dynamics of syntax*, ed. Juan Uriagereka, 266-287. London: Routledge. [Vanrell, M.M., & T. Cabré. 2011.] 'Troncamento e intonazione dei vocativi in Italia centromeridionale'. Ms., Universitat Pompeu Fabra & Universitat Autònoma de Barcelona. [Zwicky, Arnold. 1974.] Hey, what's your name! In *Papers from the 10th Regional Meeting of the Chicago Linguistic Society*, ed. Michael La Galy, Robert Fox, and Arnold Bruck, 787-801.