

# \* *Coordinated subjects and Single Conjunct Agreement in Polish*

GIST 6 Subjects Workshop

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# \*Coordination and agreement

There are several strategies available in resolving agreement with coordinated subjects:

**Full agreement** - agreement with the conjunct as a whole (&P), feature mismatch resolved according resolution rules (Corbett 1991)

**Partial agreement** - agreement with the closest available conjunct (with the first or highest) - First Conjunct Agreement or with the last one - Last Conjunct Agreement)

# \*Coordination and agreement

## **Arabic (Aoun et al. 1994, 1999):**

- Full agreement when the subject is preverbal; single conjunct agreement when the subject is postverbal

## **Hindi, Tzes (Benmamoun et al. 2009)**

- Non-related head final languages
- Full agreement option
- Partial agreement option available; agreement with the rightmost element of the &P in preverbal contexts

## **Slovenian (Marušič et al. 2007, 2009)**

- Agreement with &P
- First Conjunct agreement in post-verbal subjects
- First Conjunct agreement and Highest Conjunct agreement available for pre-verbal subjects

# \* Coordination and agreement

## **Serbo-Croatian (Bošković 2009)**

- \* Agreement with &P
- \* FCA with post-verbal subjects; LCA with pre-verbal subjects
- \* Agreement for gender
- \* Singular agreement is unavailable, FCA/LCA option only for plural conjuncts

## **Russian (Bošković 2010)**

- \* Agreement with &P
- \* Both FCA and LCA patterns
- \* Partial agreement with singular conjuncts is available

# \* Polish data

- \* The most common type of agreement with Polish coordinated subjects is plural agreement with Coordination Phrase
- \* Agreement with the whole Coordination Phrase is used both in pre-verbal and post-verbal contexts

- 1) a. Chłopiec i dziewczynka weszli do pokoju  
boy<sub>M.SG</sub> and girl<sub>F.SG</sub> came<sub>3.V.PL</sub> to room
- b. Do pokoju weszli chłopiec i dziewczynka  
to room came<sub>3.V.PL</sub> boy<sub>M.SG</sub> and girl<sub>F.SG</sub>  
'A boy and a girl came into the room'

- \* If the conjuncts have different  $\varphi$ -properties, Polish uses resolution rules to avoid conflict

# \* Polish data

## Agreement resolution

### \* Person resolution

[1<sup>st</sup> person] > [2<sup>nd</sup> person] > [3<sup>rd</sup> person]

\* If one of the conjuncts has the features which are higher in the hierarchy, they determine the features of the whole &P

- 2) a. Ty i ja jesteśmy zupełnie inni  
You and I are<sub>1PL</sub> completely different  
'You and I are completely different'
- b. Ty i on jesteście zupełnie inni  
You and him are<sub>2PL</sub> completely different  
'You and him are identical'

# \* Polish data

## Agreement resolution

### Gender resolution (Corbett 1991:284-286)

- \* Polish has three genders in the singular: **masculine** (sometimes divided into masculine animate, inanimate and personal), **feminine**, **neuter**, and two genders in the plural: **virile** (masculine personal) and **non-virile** (the rest)
- \* Predicate agreement with coordinated subjects proceeds according to gender resolution rules:
  - I. If the subject includes a masculine personal conjunct, the predicate will be in the virile form
  - 3) Brat i siostra weszli do pokoju  
brother<sub>M.PERS</sub> and sister<sub>FEM</sub> went<sub>VIR.PL</sub> in room  
'A brother and a sister went into the room'



# \* Polish data

## Agreement resolution

### Gender resolution (Corbett 1991:284-286)

- II. If the subject includes the features **masculine** and **personal**, whether these are syntactic or semantic, the predicate may be in the virile form

- 4) Mama, córeczka i wózek ukazali  
Mother<sub>F</sub>, daughter<sub>F</sub> and pram<sub>M.INANIM</sub> showed<sub>VIR.PL</sub>  
się nagle  
REFL suddenly  
'A mother, a daughter and a pram suddenly appeared'

# \* Polish data

## Agreement resolution

Gender resolution (Corbett 1991:284-286)

- III. If the subject includes a **masculine animate** conjunct, the predicate may be in the masculine personal form

5) Pies i kot jedli na podwórzu  
dog<sub>M</sub> and cat<sub>M</sub> were.eating<sub>VIR.PL</sub> on yard  
'The dog and the cat were eating in the yard'

- IV. Otherwise the predicate will be in the **non-masculine personal** form

6) Siostry i matka czytały  
Sisters<sub>FEM</sub> and mother<sub>F</sub> were reading<sub>NVIR.PL</sub>  
'The sisters and the mother were reading'

# \* Polish data

## Conjunct agreement

### First Conjunct Agreement

- \* This strategy is used in post-verbal subjects and is largely unconstrained. It is allowed with both plural and singular conjuncts:

- 7) Do pokoju      weszli/weszła      Maria i Jan  
In room      came<sub>3.VIR.PL</sub> / came<sub>3.FEM.SG</sub>      Mary and John  
'Mary and John came into the room'
- 8) Turniej      zdominowały      tenisistki  
Tournament      dominated<sub>PAST.3PL.NON-VIR</sub>      tennis-players<sub>NON-VIR.PL</sub>  
i      tenisiści  
and tennis-players<sub>VIR.PL</sub>  
'Female and male tennis players dominated the tournament'

**\* Polish data**  
Conjunct agreement

## Last Conjunct Agreement

The same sentences with the SVO word order are, however, ungrammatical and require plural agreement with gender resolution:

- 9) Jan i Maria            weszli/\*weszła            do pokoju  
John and Mary   came<sub>3.vir.pl</sub>/\*came<sub>3.fem.sg</sub>        in room  
'Mary and John came into the room'
- 10) Tenisiści                                  i                      tenisistki  
tennis-players<sub>FEM.PL</sub>                      and                      tennis-players<sub>MASC.PL</sub>  
zdominowali/\*zdominowały                      turniej  
dominated<sub>PAST.3PL.VIR</sub>/\*NON-VIR      tournament  
'Female and male tennis players dominated the tournament'

In fact, Citko (2004) claims that Last Conjunct Agreement in Polish is not available at all.

# \* Polish data

## Conjunct agreement

Willim (2012: 238) and Kallas (1993: 64-66), on the other hand, claim that Last Conjunct agreement is available in Polish, but only with a single referent, or when the conjuncts are abstract:

- 11) Jej pewność życiowa i zupełny brak  
 her confidence<sub>F.SG.</sub> life<sub>ADJ.F</sub> and complete lack<sub>M.SG</sub>  
 wahań działań na niego uspokajająco  
 doubts acted<sub>MASC.SG</sub> on him calmingly

‘Her confidence in life and complete lack of doubt had a calming effect on him’

- 12) Teraz ojciec i pan domu  
 now father<sub>M.SG</sub> and man<sub>M.SG</sub> house<sub>M.SG</sub>  
 jest na miejscu  
 is<sub>MS.G</sub> in place

‘Now the father and the master of the house is here’

# \* Polish data

## Conjunct agreement

- \* A search conducted on the sample from the Polish IPI PAN Corpus (<http://korpus.pl>) (a sample of 30m segments) revealed that Last Conjunct Agreement is indeed available in Polish.
- \* I have extracted 192 instances of singular agreement with coordinated pre-verbal subjects in Polish. A short summary of the results is given below:

	No. of items	%
Same gender conjuncts	140	73%
Different gender -agreement	29	15%
Different gender +agreement	23	12%
Total	192	100%

Table 1: A summary of results with respect to types of agreement

# \* Polish data

## Conjunct agreement

By far the most frequent type of conjunction which triggered singular agreement was coordination of two phrases with the same gender:

- 13) Ich wola i wiedza gwarantowała  
their will<sub>F.SG</sub> and knowledge<sub>F.SG</sub> guaranteed<sub>3SG.F</sub>  
nieśmiertelność.  
immortality<sub>ACC</sub>  
'Their will and knowledge guaranteed immortality'
- 14) Lipiec i sierpień upłynął w pracy  
July<sub>M.SG</sub> and August<sub>M.SG</sub> passed<sub>3SG.M</sub> at work  
strażaków pod znakiem szerszeni  
firefighters<sub>GEN</sub> under sign hornets<sub>GEN</sub>  
'For the firefighters, July and August were marked by hornets'
- 15) Zamieszanie i rozprzężenie wzrastało  
Confusion<sub>N.SG</sub> and disorder<sub>N.SG</sub> increased<sub>3SG.N</sub>  
z każdą chwilą  
with every<sub>INST</sub> moment<sub>INST</sub>  
'Confusion and disorder increased by the minute'

# \* Polish data

## Conjunct agreement

If two nouns of different genders are conjoined, singular agreement is also possible. However, it is decidedly less marked with verbs which do not show inflection for gender (e.g. in the present or future tense)

- 16) **Wieś** i rolnictwo **dłużej** **takiej** **polityki** **nie wytrzyma**  
 country<sub>F.SG</sub> and agriculture<sub>N.SG</sub> longer such policy<sub>GEN</sub> not stand<sub>3SG</sub>  
 'The country and the agriculture will not bear with such policy for long'

- 17) **Śpiew** i **muzyka** **rozwesela** serca  
 singing<sub>M.SG</sub> and music<sub>F.SG</sub> amuses<sub>3.SG</sub> hearts  
 'Singing and music amuses the heart'

- 18) **Remont** i **modernizacja** **zamknie** się **kwotą 1,34 mln zł**  
 Renovation<sub>M.SG</sub> and modernization<sub>F.SG</sub> will.close<sub>3SG</sub> REFL amount 1.34m zł  
 'Renovation and modernization will cost 1.34m zł'

But:

- 19) **Remont** i **rozbudowa** **pozwoląby** na zyskanie  
 renovation<sub>M.SG</sub> and extension<sub>F.SG</sub> enable<sub>3SG.NON-VIR-PRT</sub> for gaining  
 dodatkowej powierzchni  
 additional space  
 'Renovation and extension will enable (us) to gain additional space'



# \* Polish data

## Conjunct agreement

There were, however, a few instances of singular agreement for gender in cases where the conjuncts differed in gender features

- 20) Ciekawość i zniecierpliwienie rosło  
 Curiosity<sub>F.SG</sub> and impatience<sub>N.SG</sub> grew<sub>N.SG</sub>  
 z godziny na godzinę,  
 from hour to hour  
 ‘Curiosity and impatience were growing by the hour’
- 21) Jej głos i zachowanie było odpychające  
 Her voice<sub>M.SG</sub> and behavior<sub>N.SG</sub> was<sub>N.SG</sub> repulsive  
 ‘Her voice and behavior were repulsive’
- 22) Kłaniali się nisko, jak obyczaj i etykieta  
 Bowed<sub>3PL.VIR REFL</sub> low as custom<sub>M.SG</sub> and etiquette<sub>F.SG</sub>  
 nakazywała  
 ordered<sub>F.SG</sub>  
 ‘They bowed low, as the custom and etiquette demanded’

# \* Polish data

## Conjunct agreement

Apart from data extracted from the corpus, Polish also shows Last Conjunct Agreement with coordinated numeral phrases, especially when >5 numerals are involved:

- 23) Pięciu mężczyzn i dwie kobiety  
Five<sub>V.ACC</sub> men<sub>PL.V.GEN</sub> and two women<sub>NOM.PL.F</sub>  
weszły do pokoju  
came<sub>3.PL.F</sub> in room  
'Five men and two women came into the room'

The >5 numeral on its own triggers default 3.SG.N agreement:

- 24) Pięciu mężczyzn weszło do pokoju  
five men<sub>GEN.PL</sub> came<sub>3.SG.N</sub> in room  
'Five men came into the room'

# \* Polish data

## Conjunct agreement

A short recapitulation:

- \* The most common type of agreement with conjoined phrases is agreement with the whole &P and resolution of features
- \* First Conjunct Agreement is available with post-verbal subjects
- \* Last Conjunct Agreement is also available; however, it is highly constrained:
  - \* Most often appears with abstract or mass nouns
  - \* The least marked option is when both conjunct have the same gender
  - \* It is also possible for conjunct with different genders; however, shows best results when the form of the verb is not inflected for gender

# \*Reconciling Polish data

## Existing theories

Marušič et.al. (2007, 2010a, 2010b)

The analysis of conjunct agreement in Slovenian is based on Chomsky's (2000) Agree operation and relies on a number of crucial assumptions:

- \* Conjunction (Boolean) Phrase computes the number feature based on its conjuncts.
- \* However, it **does not compute gender feature**
- \* They follow the **two-step approach to Agree** (based on Benmamoun, Bhatia, and Polinsky 2010), where probing and establishing the Agree relation happens in syntax, while copying of the features takes place at PF, after linearization.
- \* They allow for **split  $\varphi$ -probes** - T can probe for gender and number separately
- \* The probe can **first target** either the Boolean Phrase or the conjunct

# \* Reconciling Polish data

## Existing theories

Combination of these assumptions results in all the observable agreement patterns in Slovenian:

- \* Targeting the BooleanP first and probing for gender and number together results in default masculine agreement for gender and plural for number
- \* Targeting first the BooleanP and then the conjunct (split  $\varphi$ -probe) results in Highest-CA (when copying of the features happens before PF) or in Closest-CA (copying after PF)
- \* Targeting the Cojunct first results in either the Highest-CA or Closest-CA

However:

- \* If two singular phrases are conjoined, agreement with the BooleanP is forced and the result is masculine dual default
- \* If the conjuncts contain **>5 numerals**, they have no  $\varphi$ -features whatsoever and trigger default singular neuter agreement

# \*Reconciling Polish data

## Existing theories

### Bošković (2009, 2010)

Bošković analyzes conjunct agreement in both Serbo-Croatian and Russian. He also assumes the Agree framework of Chomsky (2000, 2001), but introduces a number of additional assumptions and changes:

- \* He assumes that Serbo-Croatian has a ‘truly grammatical’ gender (i.e. dissociated from semantics) and that such gender is an **uninterpretable** feature. Only personal nouns such as *man*, *woman*, *boy* etc. exhibit ‘natural’ gender (connected with their real-world meaning), and that such gender is in turn an **interpretable** features
- \* Following Pestesky and Torrego (2007) , he assumes that uninterpretable features can be **both valued and unvalued** (contra Chomsky 2000, 2001), and that uninterpretable features must be deleted before they enter semantics.
- \* Gender features of the probe (the verb) are uninterpretable and unvalued (so must be valued in the course of derivation in order to be deleted), while the features on the target (the NP) are uninterpretable but valued (and so can be deleted )

# \* Reconciling Polish data

## Existing theories

Bošković (2009, 2010)

- \* A head X can probe for features more than once (Primary and Secondary agree)
- \* T/Part in Serbo-Croatian is an unsplit  $\varphi$ -probe and probes for gender and number at the same time (can target, however, two different goals)
- \* Following Bejar (2003), he assumes Matching/Valuation distinction and argues that in some cases Matching can fail to result in Valuation
- \* Move is viewed as a complex operation involving Matching, Valuation and pied-piping; if there are two candidates for movement, however, pied-piping fails, which prevents valuation (following Bejar 2003)
- \* He assumes, after Marušić et. al (2007), that in Serbo-Croatian &P does not compute the gender feature, only number
- \* For Russian, Bošković claims that &P not only does not compute the gender feature, but it can also be optionally specified for number
- \* If X is optionally specified for an uninterpretable feature, this feature of X can be deleted



# \*Reconciling Polish data

## Deriving Polish facts

In order to position Polish within these theories, additional assumptions have to be established:

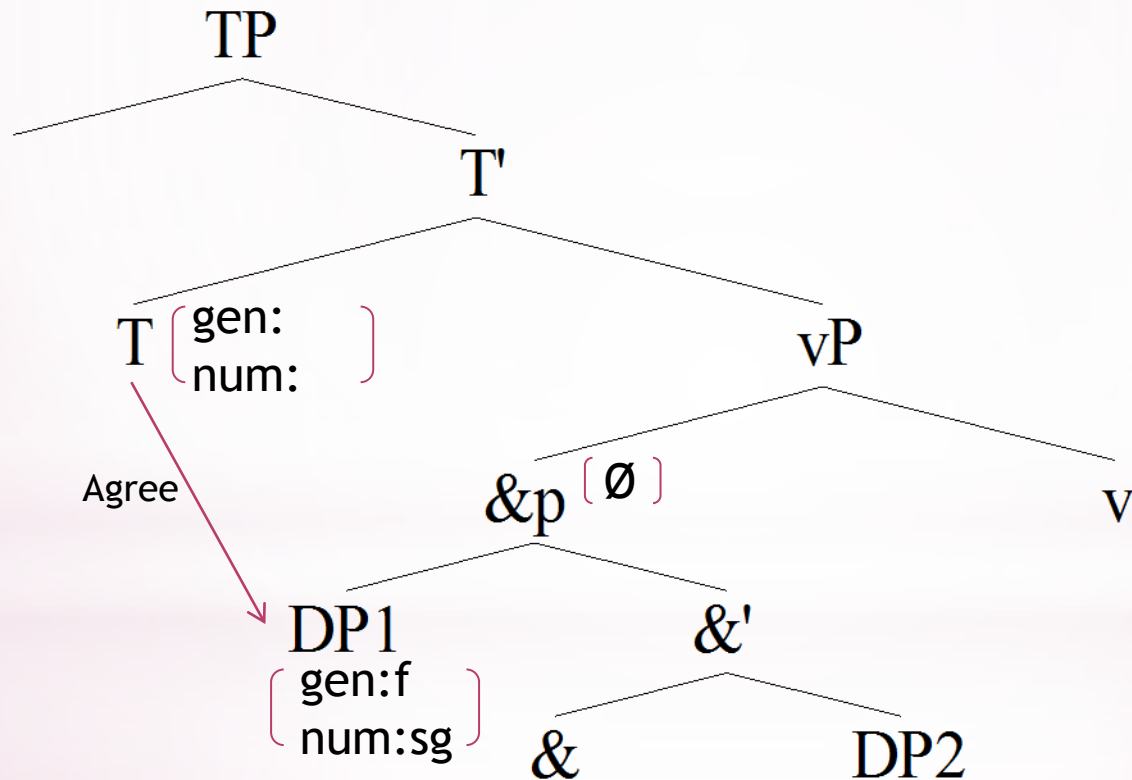
- \* Maintaining the distinction between valued and unvalued uninterpretable features
- \* Following Bošković (2009) and Willim (2000:324), I assume that semantic (notional) gender in Polish is an interpretable feature, while grammatical gender is uninterpretable
- \* Abstract and mass nouns have uninterpretable gender, while animate and count nouns exhibit interpretable gender (as in Fábregas and Pérez 2008 for Spanish)
- \* Presence of a numeral in a phrase marks it with an uninterpretable gender (gender being parasitic on number, as claimed in Alexiadou et al. (2007), De Vincenzi & Di Domenico (1999), or in Miechowicz-Mathiasen (2011) for Polish)
- \* &P in Polish does not compute the gender feature and it is optionally specified for number
- \* Following Bošković (2009) and Bejar (2003), I assume that ambiguity in establishing pied-piping leads to failure in valuation



# \*Reconciling Polish data

## Deriving Polish facts

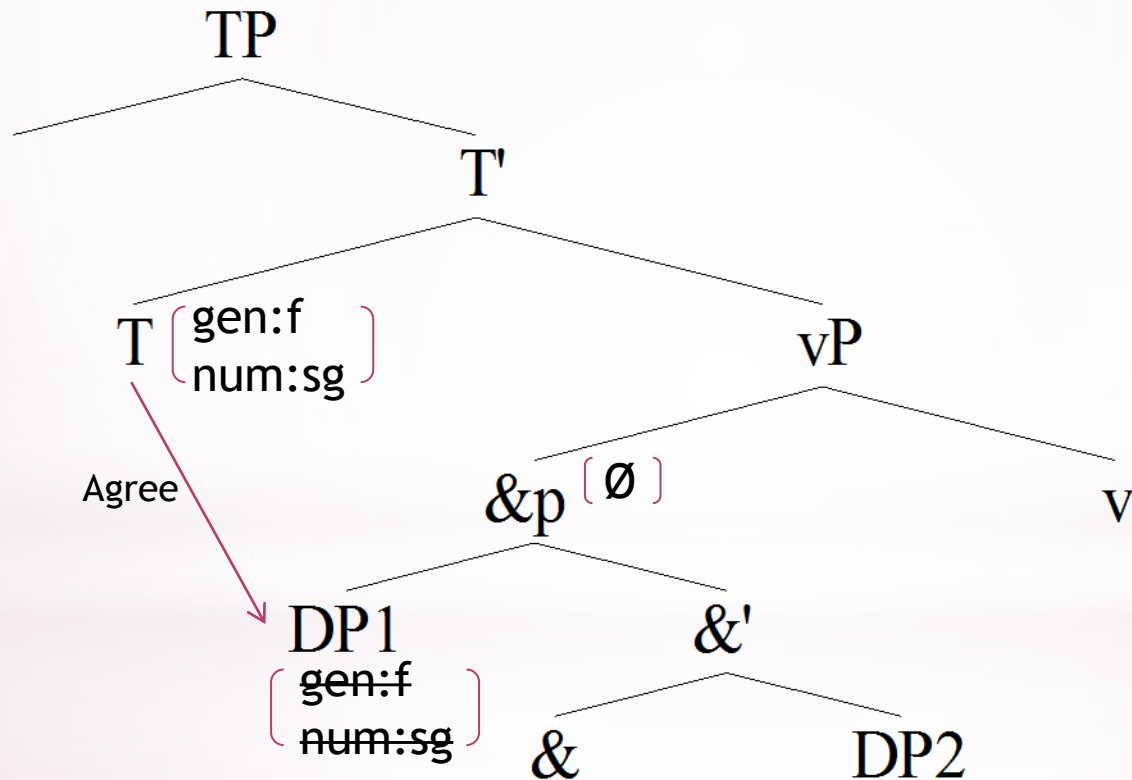
### \*Derivation of First Conjunct Agreement



# \*Reconciling Polish data

## Deriving Polish facts

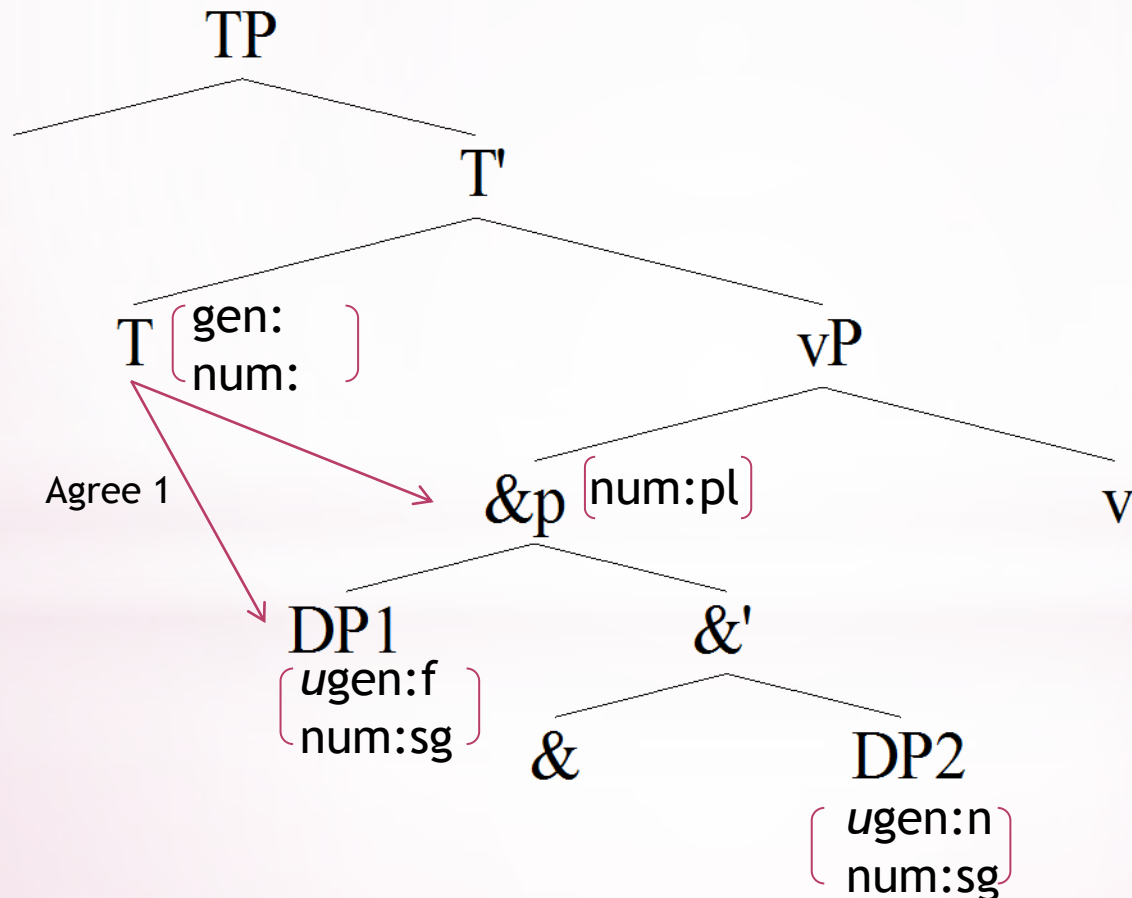
### \*Derivation of First Conjunct Agreement



# \*Reconciling Polish data

## Deriving Polish facts

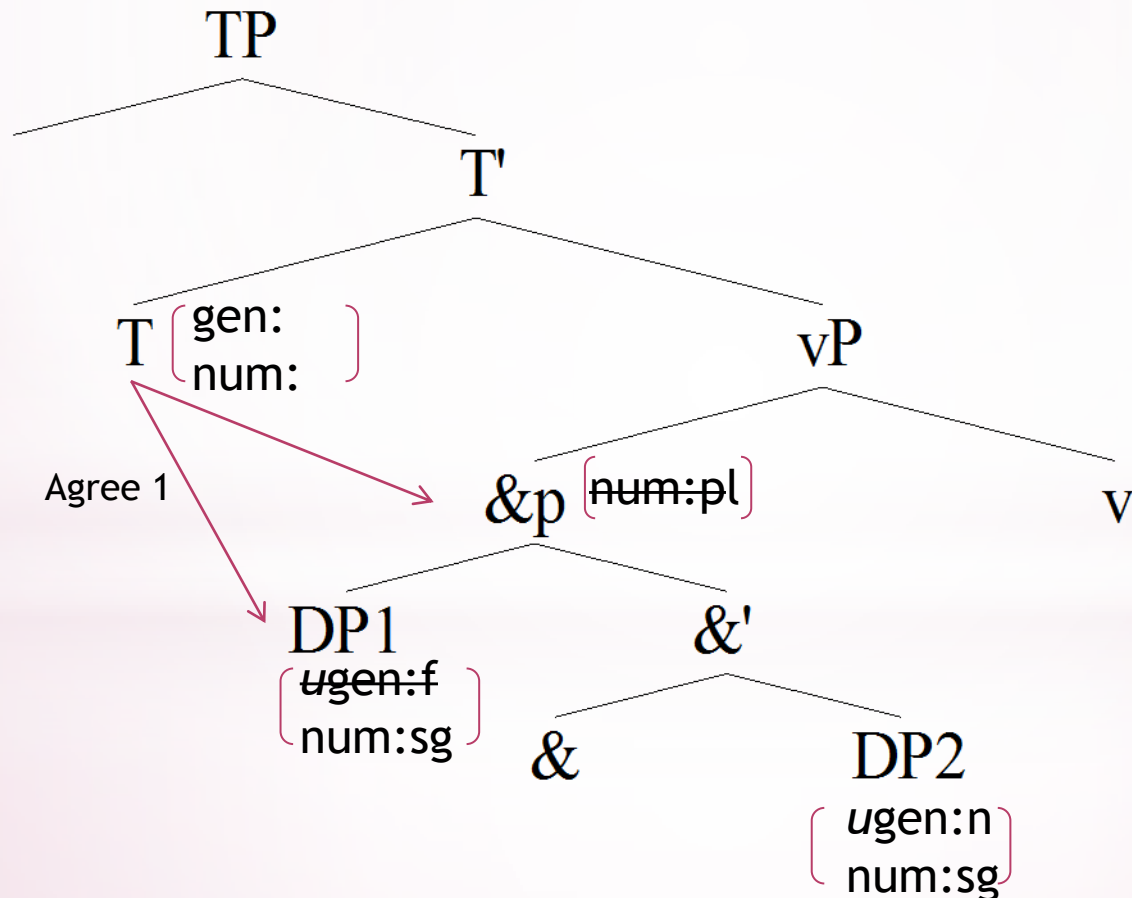
- \* Derivation of Last Conjunct Agreement with abstract nouns



# \*Reconciling Polish data

## Deriving Polish facts

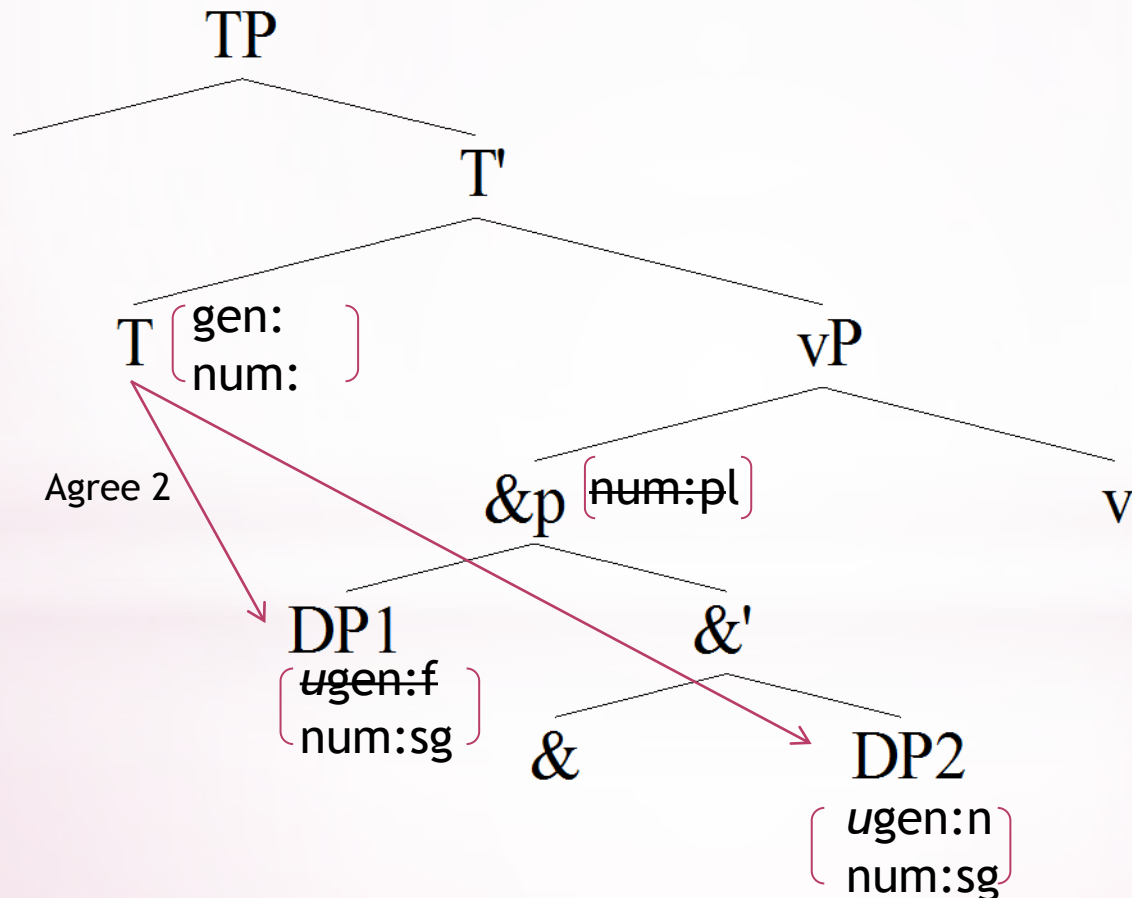
- \* Derivation of Last Conjunct Agreement with abstract nouns



# \*Reconciling Polish data

## Deriving Polish facts

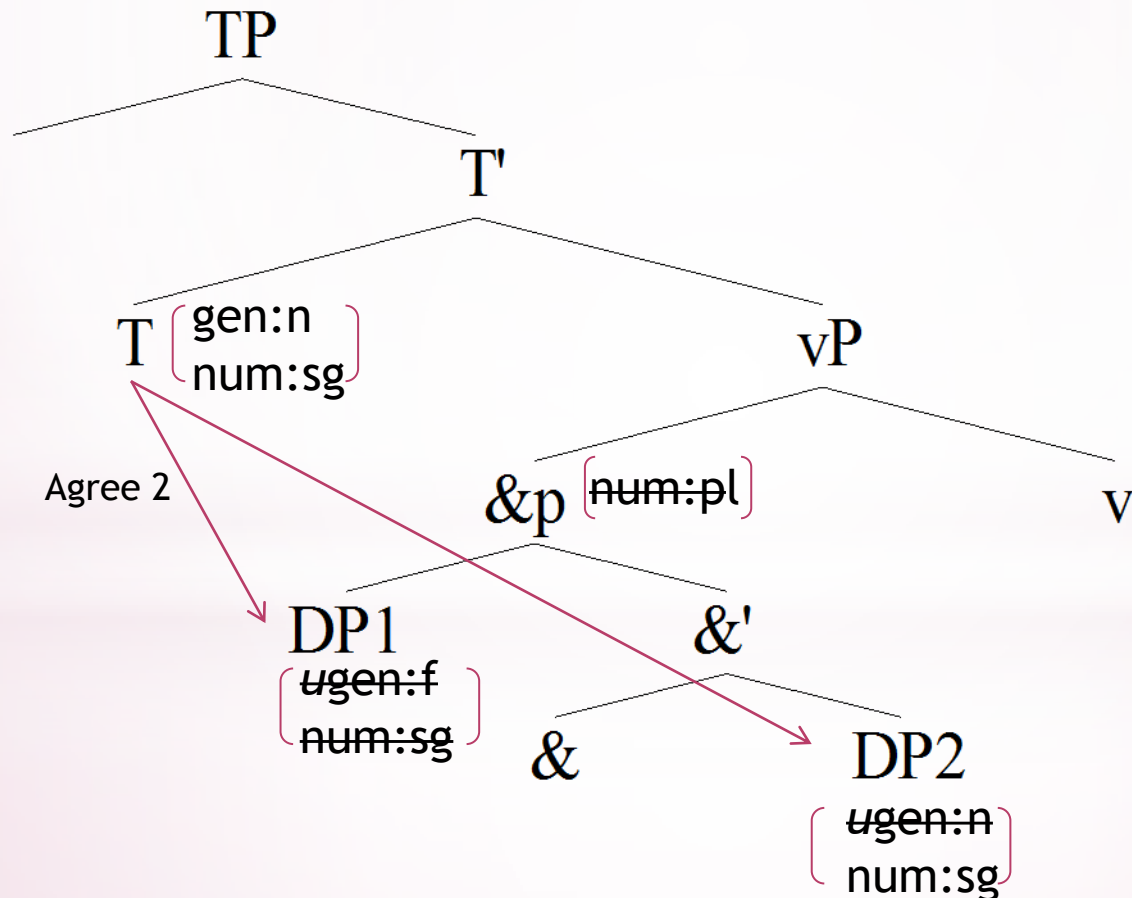
- \* Derivation of Last Conjunct Agreement with abstract nouns



# \*Reconciling Polish data

## Deriving Polish facts

- \* Derivation of Last Conjunct Agreement with abstract nouns



# \*Reconciling Polish data

## Deriving Polish facts

For Bošković (2009) , the ambiguity of pied-piping and the resulting lack of valuation results from the fact that Serbo-Croatian allows for extraction of the first conjunct from coordinated phrases.

This seems to be true also for Polish

25) ?Książki<sub>k</sub>      Paweł kupił      [*t<sub>k</sub>* i płyty]  
books              Paweł bought      and CDs  
‘Paweł bought books and CDs’

This means that, in principle, both the &P and the first conjunct are pied-pipable. The second conjunct, however, is not:

26) \*Książki<sub>k</sub>      Paweł kupił      [płyty i *t<sub>k</sub>*]  
books              Paweł bought      CDs and  
‘Paweł bought books and CDs’

# \*Reconciling Polish data

## Deriving Polish facts

The derivation proposed by Bošković and assumed here predicts that Last Conjunct Agreement would be unavailable when conjuncts with mixed numbers are involved. This seems to be confirmed for Polish:

- 27) \*Melodie                      i                      śpiew                      rozwesela serca  
Melodies<sub>F.PL</sub> and                      singing<sub>3SGM</sub>                      amuses<sub>3SG</sub> hearts  
'Melodies and singing amuse the heart'

This, however, seems not to be true for sentences where numeral phrases are conjoined:

- 28) Pięciu chłopców i jedna dziewczynka weszła<sub>F.SG</sub> do pokoju  
Five<sub>V.ACC</sub>                      boys<sub>GEN</sub> and one<sub>F</sub> girl<sub>F.NOM</sub> came<sub>F.SG</sub> in room  
'Five boys and one girl came in room'



# \*Reconciling Polish data

## Deriving Polish facts

The fact, however, that Polish >5 numerals trigger default 3.SG.N agreement, seems to indicate that they lack  $\phi$ -features (or at least that they cannot trigger the expected 3.PL.M agreement). This in turn, would explain their availability in mixed number contexts.

- 29) Pięciu chłopców wszło/\*weszli do pokoju  
 Five<sub>V.ACC</sub> boys<sub>GEN</sub> came<sub>3.SG.N/ \* 3.PL.M</sub> in room  
 ‘Five boys came into the room’

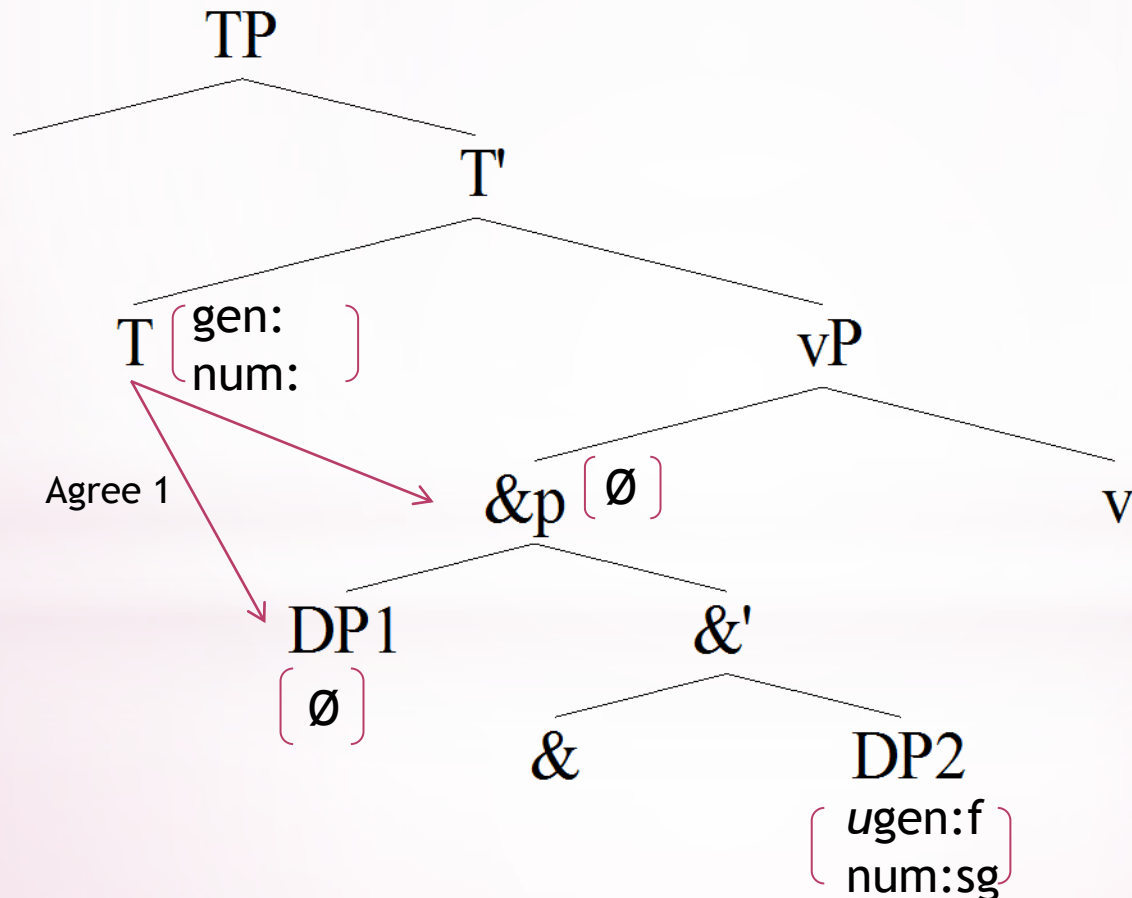
On the other hand, when one of the conjuncts involves a phrase with <5 numeral, the sentence again seems ungrammatical:

- 30) Trzej chłopcy i jedna dziewczynka  
 Three<sub>V.NOM</sub> boys<sub>V.NOM.3PL</sub> and one<sub>F</sub> girl<sub>F.NOM</sub>  
 wszli/??weszła do pokoju  
 came<sub>3.PL.V /??F.SG</sub> in room  
 ‘Three boys and one girl came into the room’

# \*Reconciling Polish data

## Deriving Polish facts

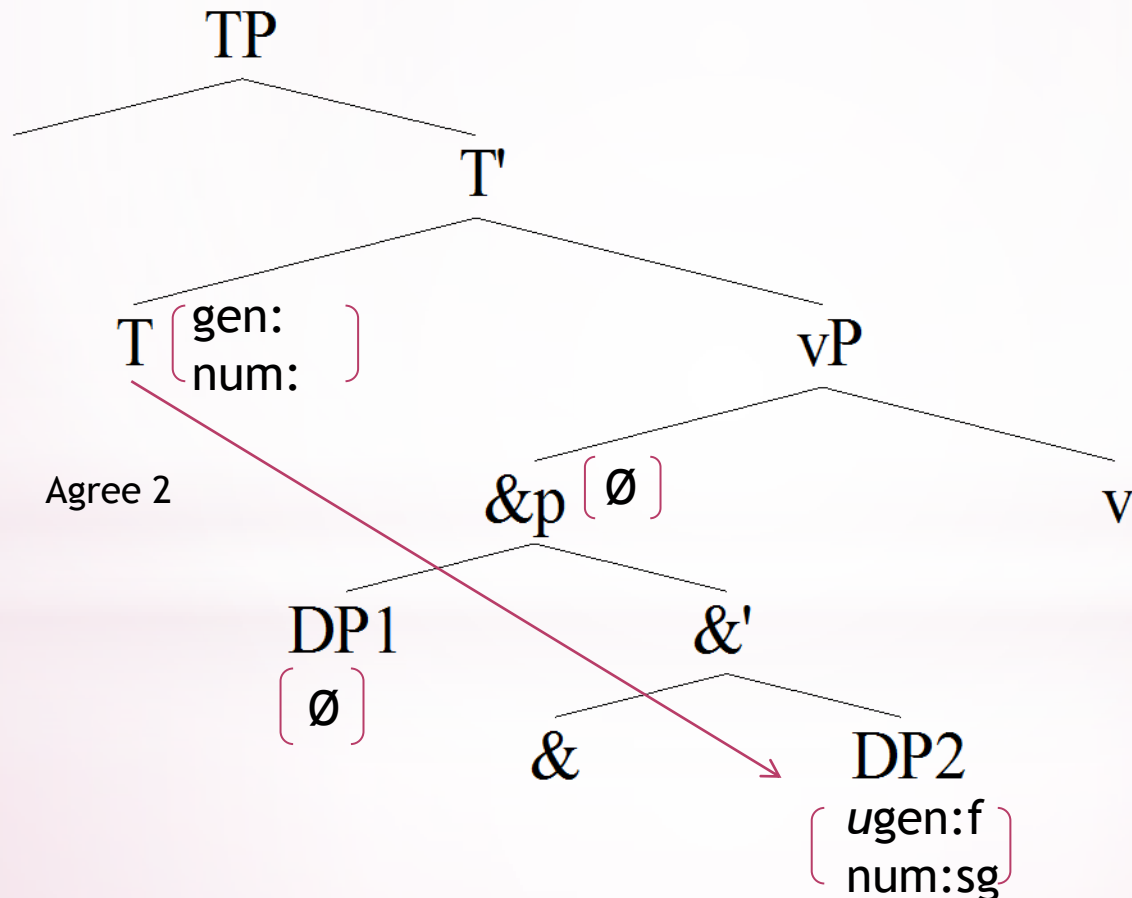
\* Derivation of Last Conjunct Agreement with >5 numerals



# \*Reconciling Polish data

## Deriving Polish facts

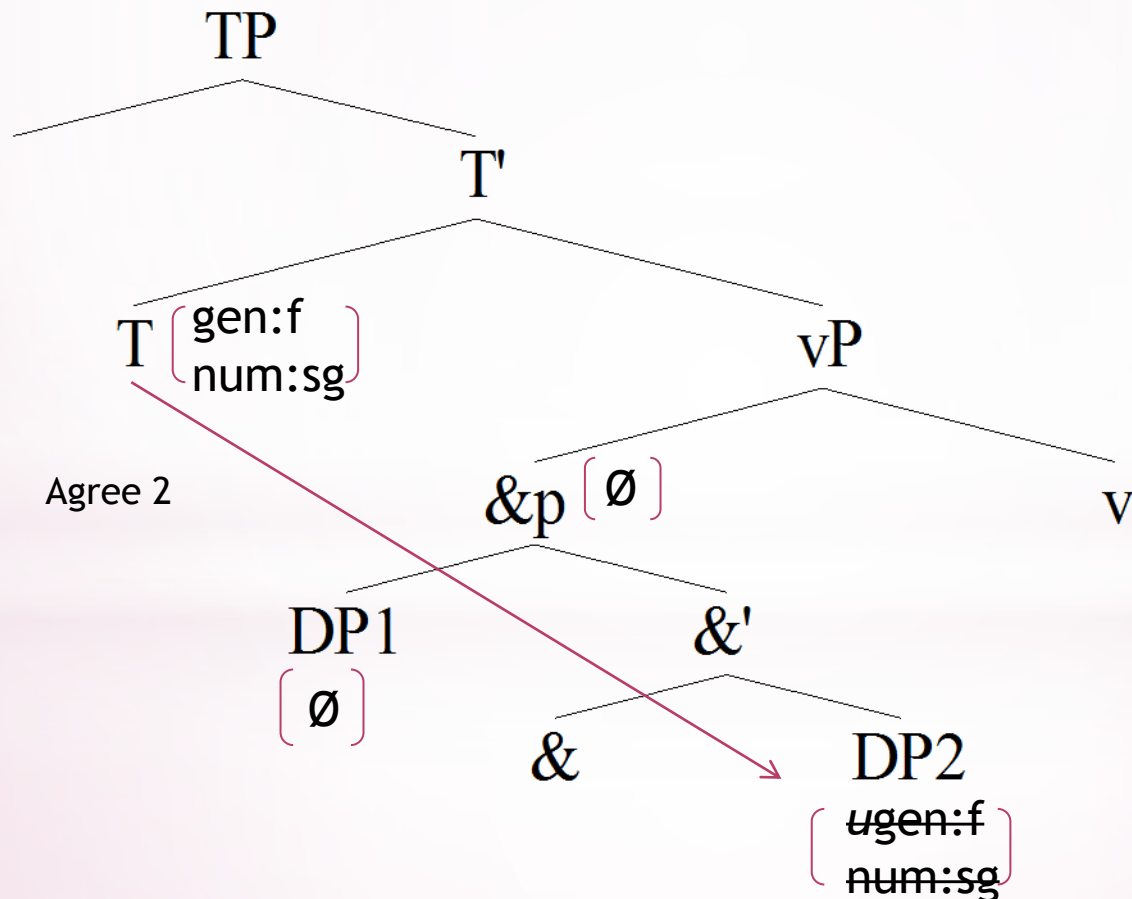
\* Derivation of Last Conjunct Agreement with >5 numerals



# \*Reconciling Polish data

## Deriving Polish facts

- \* Derivation of Last Conjunct Agreement with >5 numerals



# \*Conclusions

- \* Polish employs both First Conjunct Agreement as well as Last Conjunct Agreement as alternatives to agreeing with the whole ConjP
- \* Last Conjunct Agreement is possible with abstract or mass nouns or with conjuncts including numeral phrases
- \* The Agree-based theory of FCA/LCA of Bošković (2009,2010) can be applied to Polish, under additional assumptions:
  - \* Polish grammatical gender is an uninterpretable feature
  - \* Polish abstract nouns and mass nouns exhibit uninterpretable gender features
  - \* Polish numeral phrases >5 do not include phi-features and cannot participate in Agree relation

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\*Thank you 😊