

Loci of agreement and deviations from the Mirror Principle in Hungarian verbs

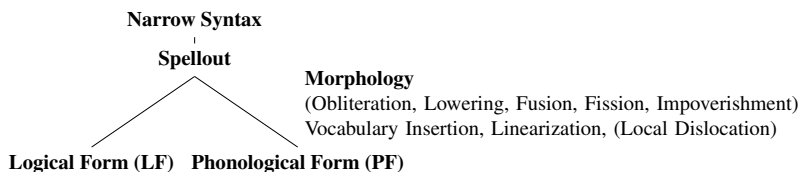
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Abstract. In this revised account of Hungarian verbal agreement, I propose that the language’s locus of subject agreement is not T, unlike in current Minimalist analyses, but Pred (or Asp), just above direct object agreement in *v*. Furthermore, the surface linear order of affixes (stem – tense/mood – object agreement – subject agreement) does not conform to the hierarchical order of syntactic heads ($V < v < \text{Pred} < T < M$), thus violating the Mirror Principle, because local dislocation in postsyntactic morphology adjusts the initial linearization of the heads.

Keywords. Hungarian; agreement; affix order; Mirror Principle; local dislocation

1. Introduction. According to the Mirror Principle (Baker 1985), the linear order of affixes should reflect the hierarchical order of the syntactic heads that they realize. The current Minimalist framework (Chomsky 2000) associates direct object (O) and subject (S) agreement with *v* and T, respectively, in the hierarchy $V < v < T < M$.¹ Yet this conflicts with the Hungarian verb’s linear order $\Sigma - \tau/\mu - \pi_O - \pi_S - \#_S$, in which all agreement suffixes follow (not precede) tense/mood. After presenting the data (§2), I review previous approaches to the puzzle (§3), and outline a new analysis ascribing the deviations to postsyntactic local dislocation (§4). Next I offer a phasal, synchronic reason for preferring Pred to T as the S-agreement locus (§5), examine diachronic evidence from Old Hungarian (§6), and explore implications for infinitives (§7), before summarizing the findings (§8). Throughout this paper, I adopt the model of grammar in (1), which limits morphological processes to post-syntax between Spellout and PF:

(1) Distributed Morphology (Halle & Marantz 1993, Embick & Noyer 2001)



MORPHEMES are abstract feature bundles on hierarchical syntactic heads. In morphology, morphemes acquire phonological content during vocabulary insertion and become linearized. Those with vocabulary items (null or overt exponents) are EXPRESSIBLE; all others are inexpressible.

2. Data. Hungarian transitive verbs inflect for the NON-PHI features of tense τ and mood μ , and PHI features of subject person π_S , subject number $\#_S$, and direct object person π_O agreement. Each person and number represents a set of privative subfeatures.² The combinations of τ and μ are illustrated here for *vár* ‘wait’ with 2PL(S)→1SG/3SG(O).³

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¹ Non-Leipzig abbreviations: # number; 0 no person; Asp/ α aspect (head/feature); C complementizer; CV coverb; D determiner; GRP group; IDV individual; *i* interpretable; M/ μ mood (head/feature); N noun; NN no number; NNe non-neutral; Num numeral; PAR participant; Pred predication; PSM possessum; PSR possessor; REF referring expression; SPK speaker; T/ τ tense (head/feature); *u* uninterpretable; V verb; κ case; π person; Σ stem.

² Based on Harley & Ritter (2002) and Bárány (2018), the persons are: 1π {REF, PAR, SPK}; 2π {REF, PAR}; 3π {REF}; 0π (no person) { }. The numbers are: plural {IDV, GRP}; singular {IDV}; NN (no number) { }. Subset and superset relationships between non-empty (i.e., $1/2/3\pi$) π_S and π_O determine person hierarchy effects: see n6.

³ Underlying forms given below surface forms rely on Abondolo’s (1988) morphophonological rules, but without

- (2) Non-past indicative
 (ti-∅) ^Avár-∅-to-k (engem-∅) / ^Bvár-já-to-k (ő-∅-t) /
 vár-∅-tO-k vár-iÁ-tO-k
 2PL-NOM wait-1.O-2.S-PL.S 1SG-ACC wait-3.O-2.S-PL.S 3-SG-ACC
 ‘You(pl) {wait, are waiting} for ^Ame/ ^Bhim/.’
- (3) Past indicative
 (ti-∅) ^Avár-ta-∅-to-k (engem-∅) / ^Bvár-t-á-to-k (ő-∅-t) /
 vár-ttA-∅-tO-k vár-ttA-iÁ-tO-k
 2PL-NOM wait-PST-1.O-2.S-PL.S 1SG-ACC wait-PST-3.O-2.S-PL.S 3-SG-ACC
 ‘You(pl) {waited, were waiting, have waited, had waited} for ^Ame/ ^Bhim/.’
- (4) Non-past subjunctive
 (ti-∅) ^Avár-ja-∅-to-k (engem-∅) / ^Bvár-j-á-to-k (ő-∅-t) /
 vár-jA-∅-tO-k vár-jA-iÁ-tO-k
 2PL-NOM wait-SBJV-1.O-2.S-PL.S 1SG-ACC wait-SBJV-3.O-2.S-PL.S 3-SG-ACC
 ‘[that] you(pl) should wait for ^Ame/ ^Bhim/.’
- (5) Non-past conditional
 (ti-∅) ^Avár-ná-∅-to-k (engem-∅) / ^Bvár-ná-[]-to-k (ő-∅-t) /
 vár-nÁ-∅-tO-k vár-nÁ-iÁ-tO-k
 2PL-NOM wait-COND-1.O-2.S-PL.S 1SG-ACC wait-COND-3.O-2.S-PL.S 3-SG-ACC
 ‘You(pl) would wait for ^Ame/ ^Bhim/.’
- (6) Past conditional
 (ti-∅) ^Avár-ta-∅-to-k vol-na (engem-∅) / ^Bvár-t-á-to-k vol-na (ő-∅-t) /
 vár-ttA-∅-tO-k vol-nÁ vár-ttA-iÁ-tO-k vol-nÁ
 2PL-NOM wait-PST-1.O-2.S-PL.S be-COND 1SG-ACC wait-PST-3.O-2.S-PL.S be-COND 3-SG-ACC
 ‘You(pl) would have waited for ^Ame/ ^Bhim/.’

The morphologically EXPRESSIBLE feature values are: past τ /-ttA/; subjunctive μ /-jA/ and conditional μ /-nÁ/; and all π and $\#$. Non-past τ and indicative μ are inexpressible. The LEXICAL VERB (LV) stem *vár* can expand into the maximal inflectional template $\Sigma - \tau/\mu - \pi_O - \pi_S - \#_S$, bearing at most one τ or μ suffix: none (2); τ (3,6); μ (4,5). All forms except the past conditional (6) are SIMPLEX, containing only the inflected LV. In the COMPLEX past conditional, τ and agreements are expressed on the LV, and μ on the DUMMY VERB (DV) *vol*.

Tables 1–4 display the paradigms of all simplex finite forms of *vár*, in the conjugations redesignated here neutrally as CA (traditionally, INDEFINITE or SUBJECTIVE), CB (DEFINITE or OBJECTIVE), and CC (-lak/-lek).⁴ Table 5 presents the infinitives, which register π_S and $\#_S$ but not π_O .⁵ Table 6 exemplifies how agreement suffixes pattern according to the PERSON HI-

portmanteau suffixes. Vowel-harmonic alternants are: *A* {*a*, *e*}; *Á* {*á*, *é*}; *O* {*o*, *ö*, *e*} (becoming *A* in 1SG→2); *U* {*u*, *ü*}. Both segments of 3 π_O suffix /-iÁ/ cosurface only in back-vowel non-past indicative (2); *i* becomes *j*. *i* mutually deletes with *A* of PST (3) and SBJV (4) suffixes. *i* deletes after *Á* of COND (5) suffix, which absorbs *Á* of /-iÁ/.

⁴ Green denotes τ/μ ; red, π_O ; and blue, π_S then $\#_S$. Each feature is expressed by a distinct, non-portmanteau suffix (Trommer 2005). Traditional 3 π is split into 3 π proper (a non-empty π , like 1/2 π) and 0 π (no π ; see n2), grammaticalizing the distinction between **definite** and **indefinite** non-participants, so the verb agrees with *O* in π , not definiteness (Bárány 2018). When *S* or *O* has 0 π , the verb registers a default π value with a null suffix (for *O*) or null/overt suffix syncretic with 3 π (for *S*). CA splits into: intransitive CA_I for no *O*; and transitive CA_T for *O* with 1/2/0 π , except in 1SG→2. CB applies when *O* has 3 π . CC is restricted to 1SG→2.

⁵ I posit three contextual allomorphs for the INF suffix: /-ni₁/ for *PRO* *S* without π and $\#$; /-ni₂/ for *S* with 1/2 π and $\#$; /-ni₃/ for *S* with 3/0 π and $\#$. Of nominalizational origin, /-ni₂/-ni₃/ combines /-ni₁/ and a general possessum

ERARCHY 1 > 2 > 3, by rearranging the non-past indicatives by combinations of S and O.⁶

S	CA _T			
	CA _I INTR	1→0; 1PL→2; 2→1/0; 3/0→1/2/0	CB 1/2/3/0→3	CC 1SG→2
1SG	vár-ok-∅ -Ok/Om-∅	vár-∅-ok-∅ -∅-Ok/Om-∅	vár-∅-om-∅ -∅-Om-∅	vár-l-ak-∅ -Ol-Ok-∅
1PL	vár-un-k -Un-k	vár-∅-un-k -∅-Un-k	vár-j-u-k -iÁ-U-k	—
2SG	vár-sz-∅ -Ol/sz-∅	vár-∅-sz-∅ -∅-Ol/sz-∅	vár-∅-od-∅ -∅-Od-∅	—
2PL	vár-to-k -tO-k	vár-∅-to-k -∅-tO-k	vár-já-to-k -iÁ-tO-k	—
3SG/ 0SG	vár-∅-∅ -∅/ik-∅	vár-∅-∅-∅ -∅-∅/ik-∅	vár-ja-∅-∅ -iÁ-∅-∅	—
3PL/ 0PL	vár-na-k -nA-k	vár-∅-na-k -∅-nA-k	vár-já-∅-k -iÁ-∅-k	—

Table 1. Non-past indicative

S	CA _T			
	CA _I INTR	1→0; 1PL→2; 2→1/0; 3/0→1/2/0	CB 1/2/3/0→3	CC 1SG→2
1SG	vár-ja-k-∅ -jA-Ok-∅	vár-ja-∅-k-∅ -jA-∅-Ok-∅	vár-ja-∅-m-∅ -jA-∅-Om-∅	vár-ja-l-ak-∅ -jA-Ol-Ok-∅
1PL	vár-j-un-k -jA-Un-k	vár-j-∅-un-k -jA-∅-Un-k	vár-j-u-k -jA-iÁ-U-k	—
2SG (short forms)	vár-já-l-∅ -jA-Ol-∅ (vár-j-∅-∅) -jA-∅-∅	vár-já-∅-l-∅ -jA-∅-Ol-∅ (vár-j-∅-∅-∅) -jA-∅-∅-∅	vár-ja-∅-d-∅ -jA-∅-Od-∅ (vár-∅-d-∅) -jA-∅-d-∅	—
2PL	vár-ja-to-k -jA-tO-k	vár-ja-∅-to-k -jA-∅-tO-k	vár-j-á-to-k -jA-iÁ-tO-k	—
3SG/ 0SG	vár-j-on-∅ -jA-On-∅	vár-j-∅-on-∅ -jA-∅-On-∅	vár-ja-∅-∅ -jA-iÁ-∅-∅	—
3PL/ 0PL	vár-ja-na-k -jA-nA-k	vár-ja-∅-na-k -jA-∅-nA-k	vár-j-á-∅-k -jA-iÁ-∅-k	—

Table 3. Non-past subjunctive (SBJV: -jA)

S	O	
	1/2/3/0/INTR	
1SG	vár-n-om-∅	-ni ₂ -Om-∅
1PL	vár-n-un-k	-ni ₂ -Un-k
2SG	vár-n-od-∅	-ni ₂ -Od-∅
2PL	vár-n-oto-k	-ni ₂ -tO-k
3SG/ 0SG	vár-ni(j)a-∅-∅	-niiÁ-∅-∅
3PL/ 0PL	vár-ni(j)-u-k	-niiÁ-U-k
0NN PRO	vár-ni-∅-∅	-ni ₁ -∅-∅

Table 5. Infinitive (INF: -ni₁/-ni₂/-niiÁ)
(j) is pronounced but unwritten (Abondolo 1988:261).

S	CA _T			
	CA _I INTR	1→0; 1PL→2; 2→1/0; 3/0→1/2/0	CB 1/2/3/0→3	CC 1SG→2
1SG	vár-ta-m-∅ -ttA-Om-∅	vár-ta-∅-m-∅ -ttA-∅-Om-∅	vár-ta-∅-m-∅ -ttA-∅-Om-∅	vár-ta-l-ak-∅ -ttA-Ol-Ok-∅
1PL	vár-t-un-k -ttA-Un-k	vár-t-∅-un-k -ttA-∅-Un-k	vár-t-u-k -ttA-iÁ-U-k	—
2SG	vár-tá-l-∅ -ttA-Ol-∅	vár-tá-∅-l-∅ -ttA-∅-Ol-∅	vár-ta-∅-d-∅ -ttA-∅-Od-∅	—
2PL	vár-ta-to-k -ttA-tO-k	vár-ta-∅-to-k -ttA-∅-tO-k	vár-t-á-to-k -ttA-iÁ-tO-k	—
3SG/ 0SG	vár-t-∅-∅ -ttA-∅-∅	vár-t-∅-∅-∅ -ttA-∅-∅-∅	vár-t-a-∅-∅ -ttA-iÁ-∅-∅	—
3PL/ 0PL	vár-ta-∅-k -ttA-∅-k	vár-ta-∅-∅-k -ttA-∅-∅-k	vár-t-á-∅-k -ttA-iÁ-∅-k	—

Table 2. Past indicative (PST: -ttA)

S	CA _T			
	CA _I INTR	1→0; 1PL→2; 2→1/0; 3/0→1/2/0	CB 1/2/3/0→3	CC 1SG→2
1SG	vár-n-ék-∅ -nÁ-ék-∅	vár-n-∅-ék-∅ -nÁ-∅-ék-∅	vár-ná-∅-m-∅ -nÁ-∅-Om-∅	vár-ná-l-ak-∅ -nÁ-Ol-Ok-∅
1PL	vár-ná-n-k -nÁ-Un-k	vár-ná-∅-n-k -nÁ-∅-Un-k	vár-ná-∅-n-k -nÁ-∅-Un-k	—
2SG	vár-ná-l-∅ -nÁ-Ol-∅	vár-ná-∅-l-∅ -nÁ-∅-Ol-∅	vár-ná-∅-d-∅ -nÁ-∅-Od-∅	—
2PL	vár-ná-to-k -nÁ-tO-k	vár-ná-∅-to-k -nÁ-∅-tO-k	vár-ná-to-k -nÁ-iÁ-tO-k	—
3SG/ 0SG	vár-na-∅-∅ -nÁ-∅-∅	vár-na-∅-∅-∅ -nÁ-∅-∅-∅	vár-ná-∅-∅ -nÁ-iÁ-∅-∅	—
3PL/ 0PL	vár-ná-na-k -nÁ-nA-k	vár-ná-∅-na-k -nÁ-∅-nA-k	vár-ná-∅-k -nÁ-iÁ-∅-k	—

Table 4. Non-past conditional (COND: -nÁ)

S \ O	1	2	3	0	INTR
1SG	—	C vár-l-ak-∅	B vár-∅-om-∅	A _T vár-∅-ok-∅	A _I vár-ok-∅
1PL	—	A _T vár-∅-un-k	B vár-j-u-k	A _T vár-∅-un-k	A _I vár-un-k
2SG	A _T vár-∅-sz-∅	—	B vár-∅-od-∅	A _T vár-∅-sz-∅	A _I vár-sz-∅
2PL	A _T vár-∅-to-k	—	B vár-já-to-k	A _T vár-∅-to-k	A _I vár-to-k
3SG	A _T vár-∅-∅-∅	A _T vár-∅-∅-∅	B vár-ja-∅-∅	A _T vár-∅-∅-∅	A _I vár-∅-∅
3PL	A _T vár-∅-na-k	A _T vár-∅-na-k	B vár-já-∅-k	A _T vár-∅-na-k	A _I vár-na-k
0SG	A _T vár-∅-∅-∅	A _T vár-∅-∅-∅	B vár-ja-∅-∅	A _T vár-∅-∅-∅	A _I vár-∅-∅
0PL	A _T vár-∅-na-k	A _T vár-∅-na-k	B vár-já-∅-k	A _T vár-∅-na-k	A _I vár-na-k

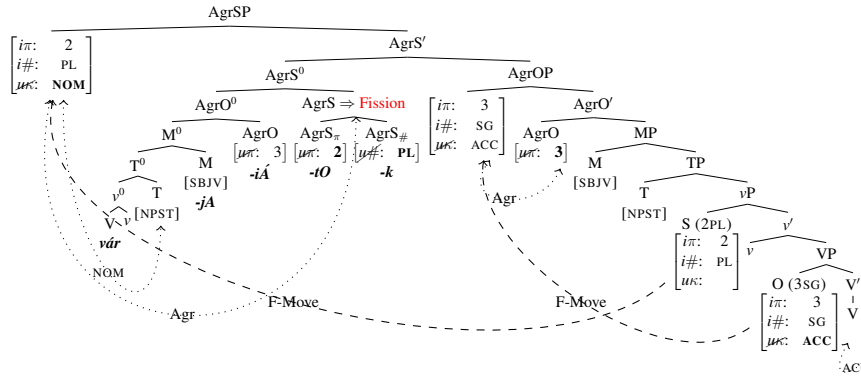
Table 6. Person hierarchy effects (inside box)

suffix *-∅-iÁ/* used in possessive DPs (*kalap-∅-∅-om-∅* hat-PSM-SG.PSM-1.PSR-SG.PSR ‘my hat’; *kalap-ja-∅-∅-∅* hat-PSM-SG.PSM-3.PSR-SG.PSR ‘his/her hat’). INF *-niiÁ/* and PSM *-iÁ/* are related to 3π_O suffix *-iÁ/* in CB; all display co-occurrence constraints with 1π *-Om/* and 2π *-Od/* for 1SG and 2SG π_S/π_{PSR} (see n6; den Dikken 2018).⁶ π_O is encoded in direct contexts (unshaded in box; S ≥ O; π_S ⊇ π_O), except 1PL→2 and 1SG/2SG→3, by overt CB/CC suffixes; and in inverse ones (shaded; S < O; π_S ⊂ π_O) by null CA_T suffixes. With SG S, the 3π_O suffix is -∅ in 1SG/2SG→3 (S > O; π_S ⊃ π_O); and *-iÁ/* in 3SG→3 (S = O; π_S = π_O), a form banned with 1π *-Om/* or 2π *-Od/*.

3. Previous approaches. τ and μ reside naturally on T and M, respectively, but different loci have been proposed for the agreement features, with varying fidelity to the Mirror Principle.

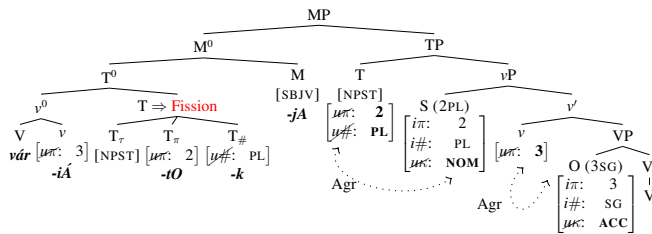
EARLY MINIMALISM identifies O- and S-agreement with AgrO and AgrS, respectively, the heads of agreement phrases whose position is language-contingent. In Hungarian, AgrSP dominates AgrOP, MP, and TP (Bartos 2000, É. Kiss 2002):

(7) Early Minimalism: derivation of (4), 2PL→3SG



V raises through v , T, M, AgrO, and AgrS.⁷ Agreement and structural case-licensing are autonomous, and occur in spec-head configurations.⁸ The LV *vár* is spelled out with the closest expressible τ or μ c-commanding it (none in non-past indicative, τ in past indicative, μ in non-past subjunctive and non-past conditional). All simplex forms easily obey the Mirror Principle.⁹ The hierarchy $V < T < M < AgrO < AgrS$ matches the linear order $\Sigma - \tau/\mu - \pi_O - \pi_S - \#_S$.¹⁰ Despite adhering strictly to the Mirror Principle, the Early Minimalist analysis suffers from the semantic vacuity of AgrO and AgrS (Chomsky 1995). LATE MINIMALISM (Chomsky 2000) eliminates them and reassociates O- and S-agreement with v and T, respectively:

(8) Late Minimalism, Simple Agree: derivation of (4), 2PL→3SG



Agree no longer needs a spec-head configuration. A PROBE, say with uninterpretable π [$\mu\pi$], is valued by interpretable π [$i\pi$] of the closest ACTIVE goal with unvalued case under the probe's c-command. v agrees with O; and T with S. As a reflex of agreement, v and T license accusative and nominative case to O and S, respectively. Agree is SIMPLE: each π probe is FLAT, or fully satisfied if the goal has at least the basic 3π set {REF} (see n2); and agrees with only

⁷ In Bartos (2000) and É. Kiss (2002), verbal heads undergo Morphosyntactic Merger rather than cyclic movement.

⁸ O in [Spec,VP] obtains structural accusative case from V. O's features raise to [Spec,AgrOP], to agree with AgrO.

⁹ S's features raise from [Spec,vP] to [Spec,AgrSP], receive nominative case from T (in AgrS⁰), and agree with AgrS.

¹⁰ The complex past conditional (6), with expressible τ and μ , poses a problem. The LV predictably registers τ but strangely also the agreements, even though M intervenes hierarchically between AgrS/AgrO and T. For a solution that maintains the Mirror Principle, see É. Kiss (2002:46–47).

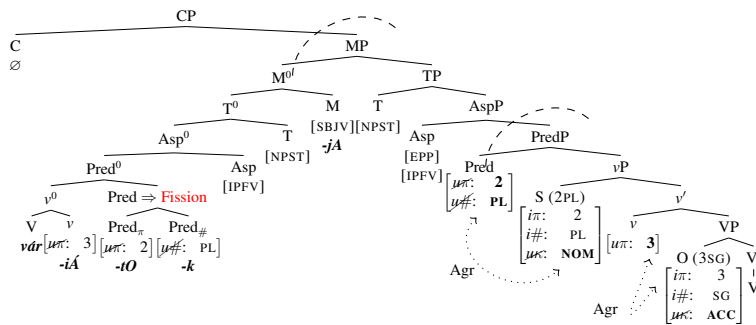
¹⁰ I assume that AgrS fissions postsyntactically into separate nodes for person and number.

FISSIONS into T_τ and $v^\wedge T_{\pi\cdot\#}$ (expressed by a portmanteau for π_O , π_S , and $\#_S$).¹¹ In **inverse** context (10a), v agrees with 1π O and is fully satisfied, so after raising to T, it does not agree with S. T agrees only with S. The probes do not fuse, since their strongest π sets (v 1π ; T 2π) differ. O-agreement in inverse contexts is unexpressed, either because vocabulary items are absent; or a language-specific rule reserves expression for the highest probe (here T), by postsyntactically OBLITERATING v before vocabulary insertion (Arregi & Nevins 2012, Bárányi 2015).

Under Cyclic Agree, deviations from the Mirror Principle emerge in both direct and inverse contexts. At least for the simplex indicatives (the only forms covered in Bárányi (2018)), fusion, fission, and obliteration can ensure the surface linear orders.¹² But these operations are insufficient for simplex non-indicatives spelling out μ on the LV. In (10), the original hierarchy in Narrow Syntax is $V < v < T < M$, which becomes $V < v^\wedge T < M$ after fusion (direct), and $V < T < M$ after obliteration (inverse), yet the surface linear orders are $\Sigma - \mu - \pi_O \cdot \pi_S \cdot \#_S$ (direct) and $\Sigma - \mu - \pi_S \cdot \#_S$ (inverse), such that μ precedes, not follows, the agreement suffixes.

4. New analysis. I will revise the Simple Agree account from (8) by reassigning S-agreement from T to Pred, under T and Asp but above v , where O-agreement remains. (For the rationale of Pred, see §5.) The surface linear order deviates from the Mirror Principle, because of postsyntactic local dislocation. Obliteration (at least for finite forms) and fusion are unnecessary under my morphological assumptions. First, agreements are expressed always and by separate suffixes for O and S (Trommer 2005). Second, π_O in inverse contexts is expressed by $-\emptyset$, contrasting with the generally overt suffixes in direct contexts (see Table 6). PH effects emerge not in syntax but only in morphology, through impoverishment rules operating before vocabulary insertion.¹³ (11) shows the revised derivation of (4) just after vocabulary insertion:

(11) Revised Simple Agree: derivation of (4), 2PL→3SG



The phases at which the derivation is transferred to Spellout are PredP, MP, and CP (§5).

¹¹ Direct contexts with 3π S and O are special, since v agrees only with O and not also with S, but fusion still occurs.

¹² For example, in past indicatives, the original hierarchical order for direct contexts is $V < v < T$, becoming $V < v^\wedge T$ post-fusion, and $V < T_\tau - v^\wedge T_{\pi\cdot\#}$ post-fission, matching the linear order $\Sigma - \tau - \pi_O \cdot \pi_S \cdot \#_S$. In inverse contexts, the same original hierarchy becomes $V < T_\tau - T_{\pi\cdot\#}$ after obliteration and fission, matching the linear order $\Sigma - \tau - \pi_S \cdot \#_S$.

¹³ Trommer's (2005) vocabulary items (VIs) and impoverishment rules (IRs) could be reformulated with the privative subfeatures from n2 to capture PH effects more explicitly. In inverse contexts, the IRs below would delete 1π {REF, PAR, SPK} on v , given 2π {REF, PAR} or 3π {REF} on Pred; and delete 2π on v , given 3π on Pred:

(i) REF, PAR, SPK \rightarrow \emptyset / $[-]_{v_\pi}$ [REF, (PAR)]_{Pred π} [IDV, (GRP)]_{Pred $\#$}

(ii) REF, PAR \rightarrow \emptyset / $[-]_{v_\pi}$ [REF]_{Pred π} [IDV, (GRP)]_{Pred $\#$}

The IRs bleed insertion on v of overt VIs specified for 1π , e.g., */-Om/* \leftrightarrow [REF, PAR, SPK] _{X_π} , and for 2π , e.g., */-Od/* \leftrightarrow [REF, PAR] _{X_π} , in favor of the null VI specified for 0π , $-\emptyset$ \leftrightarrow [$_$] _{X_π} . Here X_π denotes any π -agreement head, verbal or nominal, since some VIs such as */-Om/* and */-Od/* can serve subject-verb and possessor-noun agreement.

the initial linearization of the SWds from the inflected LV, but with T_{-ttA} instead of M_{-jA} :

(15) Local dislocation

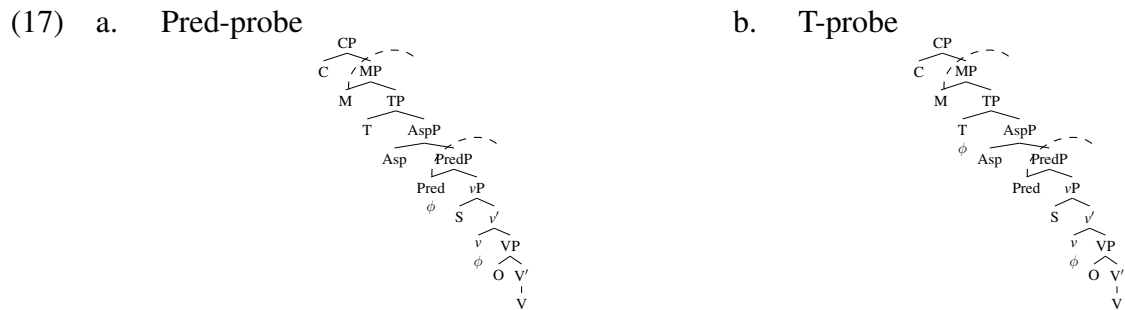
INPUT: $[M^0 V_{vár} * v_{-iÁ} * Pred_{\pi_{-iO}} * Pred_{\#_k} * T_{-ttA} * V_{vol} * M_{-nÁ}]$
 1. $[M^0 V_{vár} * v_{-iÁ} \oplus Pred_{\pi_{-iO}} * Pred_{\#_k} * T_{-ttA} * V_{vol} * M_{-nÁ}]$
 2. $[M^0 V_{vár} * v_{-iÁ} \oplus Pred_{\pi_{-iO}} \oplus Pred_{\#_k} * T_{-ttA} * V_{vol} * M_{-nÁ}]$
 3. $[M^0 V_{vár} * T_{-ttA} \oplus v_{-iÁ} \oplus Pred_{\pi_{-iO}} \oplus Pred_{\#_k} * V_{vol} * M_{-nÁ}]$
 OUTPUT: $[M^0 V_{vár} * T_{-ttA} \oplus v_{-iÁ} \oplus Pred_{\pi_{-iO}} \oplus Pred_{\#_k} * V_{vol} * M_{-nÁ}]$

The MWd-SWd distinction explains the behavior of clitics with the past conditional. Clitics such as interrogative $=e$ select MWds as hosts, e.g., *vártam volna*, not SWds, e.g., *-tam*:

- (16) a. Mari- \emptyset nem tud-t-a- \emptyset - \emptyset , hogy vár-ta-m- \emptyset vol-na= e
 tud-ttA-iÁ- \emptyset - \emptyset , vár-ttA-Om- \emptyset vol-nÁ= e
 Mary-NOM not know-PST-3.O-3.S-SG.S that wait-PST-1.S-SG.S be-COND=Q
 b. *Mari- \emptyset nem tud-t-a- \emptyset - \emptyset , hogy vár-ta-m- \emptyset = e vol-na
 tud-ttA-iÁ- \emptyset - \emptyset , vár-ttA-Om- \emptyset = e vol-nÁ
 Mary-NOM not know-PST-3.O-3.S-SG.S that wait-PST-1.S-SG.S=Q be-COND
 ‘Mary didn’t know whether I would have waited.’ (Dalmi 2005:102, reglossed)

5. PredP. Before discussing Pred as a S-agreement locus, I will note the independent motivations for the silent heads Pred and Asp. Pred licenses predicates, including V (primary predicate), and any COVERB (CV) particle merged in [V,Comp] (secondary predicate, often telicizing). Each bears a [PRED] feature to be checked in PredP: $V+v$ raises to Pred; CV raises to [Spec,PredP] (É. Kiss 2008c). Bare NP objects from [Spec,VP] also possess and check [PRED] like CVs. Asp hosts aspect α (imperfective, perfective) and EPP features, regulating CV’s final position (Csirmaz 2008).¹⁶ My analysis below of Pred as S-agreement locus could also apply to Asp, if Asp existed alone (É. Kiss 2002) and assumed Pred’s functions and phasehood.

The standard Minimalist phases are CP and vP , but I will adopt É. Kiss’s (2008a) proposal that in Hungarian, PredP (not vP) is the lowest, LEXICAL phase in which all the verb’s complements (arguments and predicates) are licensed. The next, FUNCTIONAL phase corresponds to the highest projection reached by V: MP in neutral clauses, NNeP in non-neutral ones.¹⁷ CP remains the final phase. I now analyze phasal constraints on possible S-agreement loci in (17).



¹⁶ CV-licensing in [Spec,PredP] is illustrated for *fel* ‘up’ in (40a). Asp’s EPP can be satisfied by raising CV to [Spec,AspP]. As $V+v+Pred+Asp_i$ raises to T and M, CV moves through the respective specifiers to [Spec,MP], where it stops, even if the verb raises higher in non-neutral clauses. If CV does not exist or must remain in [Spec,PredP] because it is telicizing and α is IPFV, EPP is satisfied instead by raising $V+v+Pred$ to Asp (which happens anyway).

¹⁷ NNeP (non-neutral phrase) dominates MP and projects NegP and/or FocP (É. Kiss 2008c), e.g., in (41b). After the domain of each Hungarian phase head (Pred, M, NNe) is transferred to PF, the domain’s hierarchical structure is flattened, and its constituents are linearizable in any order. Accordingly, word order is preverbally fixed and postverbally free (É. Kiss 2008a).

- (18) *Strong Phase Impenetrability Condition* (Chomsky 2000, Richards 2012:136)
In phase HP with head H, the domain of H is not accessible to operations outside HP. Only H and its edge [specifier(s)] are accessible.
- (19) *Weak Phase Impenetrability Condition* (Chomsky 2001, Richards 2012:137)
[Given structure [_{ZP} Z ... [_{HP} δ [H YP]]], with H and Z the heads of phases]: The domain of H is not accessible to operations at ZP. Only H and its edge are accessible.

The accessibility of S to a probe can depend on the version of the Phase Impenetrability Condition. Regardless of Strong or Weak PIC, a Pred-probe (17a) can access S in [Spec, *v*P], since both belong to the PredP phase. But a T-probe (17b) cannot access S under Strong PIC, since Pred transfers its domain *v*P as soon as the next **head** Asp is merged. But under Weak PIC, T can access S, since *v*P is transferred only when M, the next **phase head** after Pred, is merged. While plausible, the last scenario (T-probe, Weak PIC) might be less likely, given the free/fixed word order phenomena in É. Kiss (2008a) apparently requiring Strong PIC, as well as historical considerations. In Old Hungarian, the S-agreement locus was no higher than Asp.

6. Old Hungarian. Unlike in Modern Hungarian (MH), verbs in Old Hungarian (OH) could morphologically inflect for aspect α , as well as tense τ and mood μ .¹⁸

- | | |
|--|--|
| <p>(20) Simple non-past indicative</p> <p>mond-∅-om-∅
mond-∅-Om-∅
say-3.O-1.S-SG.S
'I {say, am saying} it.'</p> | <p>(24) Perfective past indicative</p> <p>mond-ta-∅-m-∅ val-a
mond-ttA-∅-Om-∅ val-Á
say-PFV-3.O-1.S-SG.S be-PST
'I had said it.'</p> |
| <p>(21) Simple past indicative</p> <p>mond-á-∅-m-∅
mond-Á-∅-Om-∅
say-PST-3.O-1.S-SG.S
'I said it.'</p> | <p>(25) Non-past subjunctive</p> <p>mond-ja-∅-m-∅
mond-jA-∅-Om-∅
say-SBJV-3.O-1.S-SG.S
'[that] I should say it.'</p> |
| <p>(22) Perfective non-past indicative</p> <p>mond-ta-∅-m-∅
mond-ttA-∅-Om-∅
say-PFV-3.O-1.S-SG.S
'I have said it.'</p> | <p>(26) Simple non-past conditional</p> <p>mond-aná-∅-m-∅
mond-nÁ-∅-Om-∅
say-COND-3.O-1.S-SG.S
'I would say it.'</p> |
| <p>(23) Imperfective past indicative</p> <p>mond-∅-∅-om-∅ val-a
mond-∅-∅-Om-∅ val-Á
say-IPFV-3.O-1.S-SG.S be-PST
'I was saying it.'</p> | <p>(27) Perfective non-past conditional</p> <p>mond-ta-∅-m-∅ vol-na
mond-ttA-∅-Om-∅ vol-nÁ
say-PFV-3.O-1.S-SG.S be-COND
'I would have said it.'</p> |

The MH equivalents are also presented for comparison:

- | | | |
|--|---|--|
| <p>(28) Non-past indicative</p> <p>mond-∅-om-∅
mond-∅-Om-∅
say-3.O-1.S-SG.S
'I {say, am saying} it.'</p> | <p>(29) Past indicative</p> <p>mond-ta-∅-m-∅
mond-ttA-∅-Om-∅
say-PST-3.O-1.S-SG.S
'I {said, was saying,
have said, had said} it.'</p> | <p>(30) Non-past subjunctive</p> <p>mond-ja-∅-m-∅
mond-jA-∅-Om-∅
say-SBJV-3.O-1.S-SG.S
'[that] I should say it.'</p> |
|--|---|--|

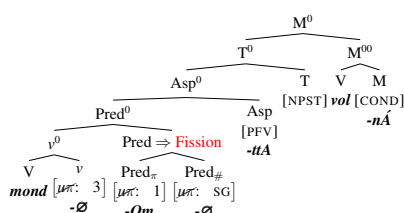
¹⁸ Data are reglossed from É. Kiss (2017) and Hungarian Generative Diachronic Syntax corpus (oldhungariancorpus.nyud.hu).

- (31) Non-past conditional
 mond-aná-∅-m-∅
 mond-nÁ-∅-Om-∅
 say-COND-3.O-1.S-SG.S
 ‘I would say it.’

- (32) Past conditional
 mond-ta-∅-m-∅ vol-na
 mond-ttA-∅-Om-∅ vol-nÁ
 say-PST-3.O-1.S-SG.S be-COND
 ‘I would have said it.’

I assume that OH shares the same inventory of verbal projections and phases (and Strong PIC) as MH. In OH, the LV *mond* registers α (to the exclusion of τ and μ , since Asp is closer than T/M to V), if α 's value is expressible, namely imperfective (23) or perfective (22,24,27). Unspecified α is inexpressible (20,21,25,26). When the LV registers α , past τ (23,24) and conditional μ (27) appear on the DV *vall/vol*. T cannot be the locus of S-agreement, since the α -marked LV agrees but the τ -marked DV *val-a* does not (23,24). S-agreement thus occurs no higher than Asp. For consistency with MH, I locate S-agreement in OH also on Pred:

- (33) Complex verbal head in OH perfective non-past conditional (27) (cf. MH (14))¹⁹



Pred was undisturbed by the following changes from OH to MH. Syntactically, OH Asp was reanalyzed as MH T, while morphologically, OH PFV α suffix *-ttA/* (22,27) was reinterpreted as MH PST τ *-ttA/* (29,32), and OH IPFV α suffix *-∅* (23) was lost. Both OH T and PST τ suffix *-Á/* (21) vanished. MH developed a new, morphologically unexpressed Asp to host α .²⁰

7. Infinitives. I now extend the revised Simple Agree account to infinitives embedded under the classes of matrix verbs represented by *kell* ‘must’ and *akar* ‘want’. The Hungarian infinitival clause begins as a CP (with possible left-peripheral projections, e.g., TopP, FocP), in a biclausal structure with the matrix CP, even if restructuring can later occur (Szécsényi 2009).

- (34) Epistemic *kell*
a **fiú-k-nak_j** már otthon kell-∅-∅ [C_{1,N} len-ni(j)-ü-k/ *len-ni-∅-∅/ e_j]
 len-niiÁ-U-k/ *len-ni₁-∅-∅/
 the boy-PL-DAT already home must-0.S-NN.S be-INF-3.S-PL.S/ *be-INF-0.S-NN.S/
 ‘The boys must already be at home.’ (adapted from É. Kiss 2002:214)

- (35) Deontic *kell*
a. Matrix experiencer, controlling *pro* infinitival S
 nem kell-∅-∅ nek-te-k_j [C_{1,N} fel olvas-n-oto-k **pro_j** a vers-∅-et]
 olvas-ni₂-tO-k
 not be.needed-0.S-NN.S DAT-2-PL CV read-INF-2.S-PL.S the poem-SG-ACC
b. Matrix experiencer, controlling *PRO* infinitival S
 nem kell-∅-∅ nek-te-k_j [C_{1,N} fel olvas-ni-∅-∅ **PRO_j** a vers-∅-et]
 olvas-ni₁-∅-∅
 not be.needed-0.S-NN.S DAT-2-PL CV read-INF-0.S-NN.S the poem-SG-ACC

¹⁹ The surface linear order in (27) is derived by LD as in MH past conditional (15), but substituting Asp-*ttA* for T-*ttA*.

²⁰ In an alternative account (É. Kiss 2008b:148), no new Asp emerged in MH, since Pred now performs the functions of OH Pred and Asp. In another account (É. Kiss 2017:72), OH Pred was reanalyzed as MH Asp, so MH lacks Pred.

- c. No matrix experiencer; uncontrolled *pro* infinitival S
 nem kell-Ø-Ø [C_{1,N} fel olvas-n-oto-k *pro*_j a vers-Ø-et]
olvas-ni₂-tO-k
 not be.needed-0.S-NN.S CV read-INF-2.S-PL.S the poem-SG-ACC
Same translation: ‘It is not necessary for you(pl) to read out the poem.’

(36) *akar*

- a. 3SG (definite DP) infinitival O
 ti-Ø_j nem akar-já-to-k [C_{1,A} fel olvas-ni-Ø-Ø *PRO*_j a vers-Ø-et]
akar-iA-tO-k olvas-ni₁-Ø-Ø
 2PL-NOM not want-3.O-2.S-PL.S CV read-INF-0.S-NN.S the poem-SG-ACC
 ‘You(pl) don’t want to read out the poem.’
- b. 0SG (indefinite NumP) infinitival O
 ti-Ø_j nem akar-Ø-to-k [C_{1,A} fel olvas-ni-Ø-Ø *PRO*_j egy ilyen vers-Ø-et]
akar-Ø-tO-k olvas-ni₁-Ø-Ø
 2PL-NOM not want-0.O-2.S-PL.S CV read-INF-0.S-NN.S a such poem-SG-ACC
 ‘You(pl) don’t want to read out such a poem.’

Infinitives agree in π and $\#$ with their overt S (34) and *pro* S (35a,35c), but not *PRO* S (35b,36), where the null suffixes express default values (0 for π and NN for $\#$) without actual valuation by *PRO*. The overt S ‘the boys’ (34) bears dative case (instead of nominative for finite S). Although ‘the boys’ appears in the matrix CP, it originates from the infinitival CP (É. Kiss 2002), since epistemic *kell* cannot assign a theta-role to it. In contrast, deontic *kell* (35) can take a dative experiencer *nektek* controlling an in situ *pro* (35a) or *PRO* (35b) infinitival S. It can also omit the experiencer entirely (35c), leaving *pro* uncontrolled. I assume that the *pro* S has the same dative case as ‘the boys’ in (34), while *PRO* is caseless.

- (37) lejár-t-Ø-Ø a jogosítvány-Ø-Ø-om-Ø-Ø
lejár-ttA-Ø-Ø jogosítvány-Ø-Ø-Om-Ø-Ø
 expire-PST-3.S-SG.S the license-PSM-SG.PSM-1.PSR-SG.PSR-NOM
 [így meg kell-Ø-Ø [C_{1,N} újít-an-om-Ø *pro*_j *pro*_k]]
újít-ni₂-Om-Ø
 so CV be.needed-0.S-NN.S renew-INF-1.S-SG.S 1SG.S 3SG.O
 ‘My license expired, so I need to renew it.’ (Ruda 2017:78, reglossed)

Although O-agreement is morphologically unexpressed on infinitives, it syntactically does occur, for two reasons. First, infinitival O is pro-droppable (37). Second, O-infinitive agreement is an integral step of local Agree for “long-distance” object agreement (LOA) in which matrix *akar*, but not *kell*, registers the infinitival O’s π (3π (36a); 0π (36b)).²¹ LOA’s availability depends on the flavor of C₁ (complementizer of infinitival CP), namely C_{1,N} under *kell* and C_{1,A} under *akar*, which both begin with unvalued structural case. C_{1,N} is later valued nominative, and C_{1,A}, accusative. Only C_{1,A} also has an unvalued **interpretable** π probe, unlike the canonical **uninterpretable** π probes on *v* and T (Pesetsky & Torrego 2007), to allow LOA by transmitting the π from infinitival *v* (ultimately from O) to matrix *v* (cf. Szécsényi & Szécsényi 2017). C₁’s case values are confirmed by the fact that when *kell* and *akar* select finite CPs, they agree with a 3SG cataphor *a*_z referring to the CP and bearing the same case values:

²¹ Roughly generalizing, definites are DPs with non-empty π and indefinites are non-DPs with no π (Bárányi 2018).

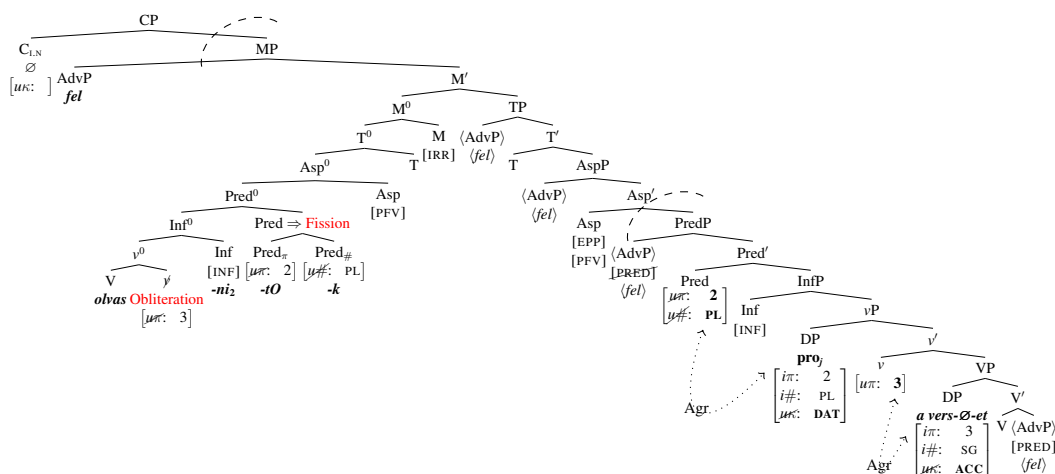
(38) *nem kell-Ø-Ø (nek-te-k) az-Ø [hogy fel olvas-s-a-Ø-Ø a vers-Ø-et]*
 not be.needed-3.S-SG.S DAT-2-PL DEM-NOM that CV read-SBJV-3.O-3.S-SG.S the poem-SG-ACC
 ‘It is not necessary (for you(pl)) that she read out the poem.’

(39) *ti-Ø nem akar-já-to-k az-t [hogy fel olvas-s-a-Ø-Ø a vers-Ø-et]*
 2PL-NOM not want-3.O-2.S-PL.S DEM-ACC that CV read-SBJV-3.O-3.S-SG.S the poem-SG-ACC
 ‘You(pl) don’t want her to read out the poem.’

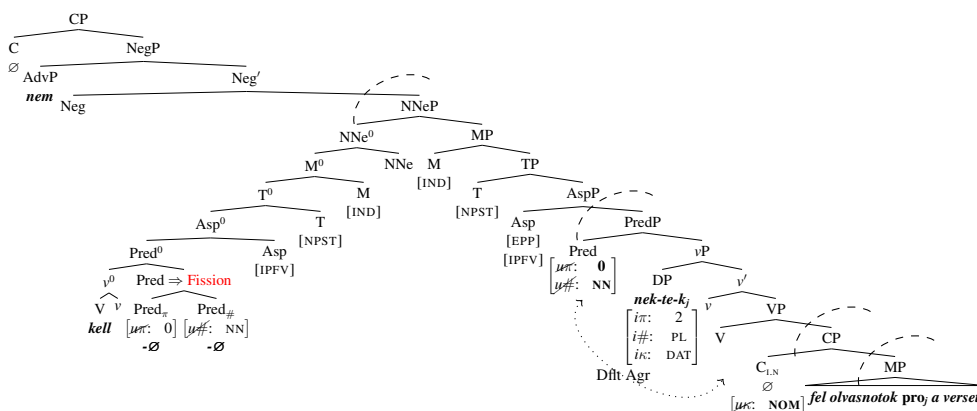
I now consider the derivation of (35a), with $C_{I,N}$ under *kell*.

(40) Derivation of (35a)

a. Embedded clause



b. Matrix clause



In infinitival CP (40a), the verb projects Inf (between v and Pred), T with unspecified τ , and M with irrealis μ . O agrees with v for accusative case, and S with Pred for dative. The INF feature resides not on T but Inf, just above v (cf. Travis 2000), to give Pred the infinitival flavor for licensing structural dative case instead of nominative. The $u\pi$ on v is not instantly deleted after valuation, because v is phi-defective (without #), unlike phi-complete Pred (with π and #) (cf. Richards 2012:146n6). v becomes a potential goal for further Agree. The highest head that v reaches in a neutral infinitive is M. But even from there, v can never agree with $C_{I,N}$, which lacks a π probe. The $u\pi$ on v is deleted just before MP, the domain of phase head $C_{I,N}$, is transferred (when matrix V, the head after $C_{I,N}$, is merged, assuming Strong PIC). v

π on $C_{1,A}$ is never deleted. With its yet unvalued structural case, $C_{1,A}$ in (41b) agrees as a goal with matrix v for accusative case, so infinitival O's π finally arrives at a morphologically expressible head. In sum, LOA enchains three instances of local Agree: infinitival O–infinitival v ; infinitival v – $C_{1,A}$; $C_{1,A}$ –matrix v . The Pred of *akar* agrees with and licenses nominative case to the experiencer *ti* in [Spec, v P], unlike the non-agreeing, inherent dative experiencer of *kell*.

8. Conclusion. Under any Minimalist analysis of Hungarian that reassigns agreement from AgrSP/AgrOP to semantically contentful heads, whether with Simple or Cyclic Agree, the surface linear order of affixes deviates in some instances from the hierarchical order of heads. Postsyntactic local dislocation of the initial linearization derives the deviations. The revised Simple Agree account presented here maintains O-agreement canonically on v , but identifies S-agreement with Pred (or possibly Asp) rather than T. From Pred, the probes thereon can access S in [Spec, v P], under the assumptions that PredP is a phase, and that the Strong PIC applies. (The account also extends to Old Hungarian, in which S-agreement occurred no higher than Asp.) Whereas finite Pred licenses structural nominative case to S, infinitival Pred licenses dative. To impart an infinitival flavor to Pred, the INF feature resides on Inf (below Pred), rather than T (above). In both finite and infinitival clauses, feature deletion after valuation is instant on Pred (phi-complete), but delayed on v (phi-defective) until the transfer of the highest projection reached by v . The delay enables features on infinitival v (from infinitival O) to pass to infinitival C and matrix v , producing “long-distance” O-agreement.

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