## Chapter 9

## Singular -st syncretism and featural pied-piping

Jim Wood<br>Yale University

An often discussed fact about Icelandic dative-nominative constructions is that nominative objects cannot trigger 1st or 2nd person agreement on the finite verb; but when the agreement form is morphologically syncretic with 3rd person, the example is judged to improve. What is not often discussed is that the ameliorative effect of syncretism is stronger when the verb ends in the "middle" -st morpheme. In this article, I propose that this effect is related to another morphological fact about -st verbs, namely, that they are always syncretic across all persons in the singular, but not in the plural. I present a syntactic account of this syncretism which captures its morphological properties and predicts the difference between ameliorative syncreticism when -st is present and when it is not.

## 1 Introduction

The Icelandic -st morpheme is often described as a "middle" or "medio-passive" suffix, though it is acknowledged that -st verbs do not comprise a unified class of a certain "voice". That is, -st verbs are a class of verbs bearing a formal resemblance, the -st morpheme, but from a syntactic perspective, the -st/non-st distinction is not analogous to the passive/non-passive distinction. However, there are aspects of the morphosyntax of -st verbs which cut across all classes of them, and it is (a subset of) these aspects that are the focus of this paper. More specifically, for all -st verbs in all tenses and moods, person distinctions are lost in the singular but not the plural. This syncretism, which will henceforth be referred to as -st syncretism, correlates with a higher acceptability of 1st/2nd person object
agreement in dative-nominative (DAT-NOM) constructions than that found with non-st syncretism.

I present an overview of the syntax of -st put forth in $\operatorname{Wood}(2014,2015)$ and propose that singular -st syncretism is derived in the syntax. I then show how the syntactic account of -st syncretism presented here predicts the kind of improvement seen with 1st and 2nd person singular nominative objects. Crucial to the analysis is the observation that the size of the feature bundle realized as -st affects the availability of syntactic Agree relations that underlie the syncretism and nominative object agreement.

### 1.1 Syntax and syncretism

In a number of reported cases, syntactic constructions can vary in acceptability depending on the availability of syncretic forms. For example, across-the-board (ATB) movement in Polish is normally only possible when the wh-word would have the same morphological case from both conjuncts; but if the different cases happen to be realized with the same morphological form, the result is acceptable (Citko 2005, Hein \& Murphy 2020; see also Ximenes 2007: fn. 2). Citko (2005) proposes that the syntax underlying ATB movement with verbs that assign different cases is fine, but that it fails when the grammar attempts to insert the appropriate case morpheme - unless the different case forms are morphologically syncretic.

Many accounts of ameliorative effects of syncretism involve an explanation like this (Pullum \& Zwicky 1986, Béjar \& Massam 1999, Kratzer 2009, Ussery 2009, Bjorkman 2016): syncretic forms allow the grammar to realize a syntactic configuration which would otherwise make contradictory demands on the morphology. ${ }^{1}$ Without denying the validity of this kind of explanation (in fact, I will adopt it for certain cases), I will take a different approach to the person syncretism in the singular paradigm of Icelandic -st verbs.

The -st morpheme, commonly known as the "middle" voice, induces a complete collapse of person distinctions in the singular. An example of this is illustrated in Table 1. Interestingly, along with this syncretism comes an improvement in acceptability of certain DAT-NOM constructions, to be discussed below. I will propose that in this case, both the syncretism itself and the improvement in acceptability are underlain by the syntax, specifically with respect to the size of the feature bundle that is realized as $-s t$.

[^0]Table 1: mylja 'pulverize' - Present

|  | Active |  |  | Middle |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | sG | PL |  | sG | PL |
| 1 | myl | mylj-um |  | mylj-um-st |  |
| 2 | myl-ur | mylj-ið |  | myl-st | mylj-i-st <br> 3 |
| myl-ur | mylj-a |  |  | mylj-a-st |  |

### 1.2 Dative-nominative constructions

Icelandic DAT-NOM constructions exhibit number agreement with 3rd person nominative objects, but cannot agree in person with 1st or 2nd person objects. This holds for verbs which take dative subjects in the active, as in (1), as well as for DAT-NOM constructions which are derived by passivization of a ditransitive, as in (2). The significance of the latter is that the properties of DAt-nom constructions cannot easily be reduced to a special, "quirky" little v selecting for an oblique subject.
(1) a. Henni höfðu líkað peir.
her.dat had.3pl liked they.nom
'She had liked them.'
b. * Henni höfðum líkað við. her.dat had.1pl liked we.nom 'She had liked us.' (Sigurðsson 1996: 38)
(2) a. Maríu voru gefnir báðir drengirnir. Mary.DAt were.3Pl given.3pl.m both boys.the.nOM 'Mary was given both the boys.'
b. *Maríu vorum gefnir við.

Mary.dat were.1pl given.3pl.m we.nom 'We were given to Mary.' (Sigurðsson 1992: 71)

In several approaches to person restrictions on nominative objects, the verb must in some sense agree with both the dative subject and the nominative object (Boeckx 2000, Schütze 2003, Koopman 2006, Sigurðsson \& Holmberg 2008, Ussery 2009). Agreement with the dative yields default 3rd person singular agreement (regardless of the actual person/number of the dative), as can be independently verifed by constructions with non-nominative subjects and no nominative object.
a. Hafði pér ekki leiðst?
had.3sG you.DAt not bored
'Were you not bored?' (Sigurðsson 1989: 225)
b. Var pér boðið í veisluna?
was.3sg you.DAT invited to party.the.ACc
'Were you invited to the party?' (Sigurðsson 1989: 309)
If the verb agrees with both a dative subject and a non-3rd person object, then there is a feature clash - the verb must simultaneously be 3rd and 1st/2nd person. However, if the paradigm of a given verb happens to exhibit syncretism for the two forms, the sentence is judged to be improved. The agreement paradigm for lika 'like' in the past tense has a syncretism between the 1st and 3rd person singular forms, but a distinct form for 2nd person singular (Table 2). ${ }^{2}$

Table 2: lika 'like’

| 1 | likaði | líkuðum |
| :---: | :--- | :--- |
| 2 | líkaðir | líkuðuð |
| 3 | líkaði | líkuðu |

Thus, when a nominative object is 1st person singular, the result is better than when it is 2 nd person singular, as shown by the following judgments from Sigurðsson (1996).
a. ?? Henni líkaði ég.
her.DAT liked.1/3sG I.NOM
INTENDED: 'She liked me.'
b. * Henni líkaðir pú. her.DAT liked.2sG you.sG.NOM intended: 'She liked you.' (Sigurðsson 1996: 33)

[^1]The claim, then, is that the availability of a form which can express both sets of features allows a way to avoid the feature clash.

However, it turns out that not all syncretisms are equally ameliorative: if syncretism occurs with the morpheme -st, in the singular, the ameliorative effect of syncretism is stronger than in other cases of syncretism, and this is not predicted by the analyses outlined above. The data in Table 3 from Sigurðsson (1992) show the number of speakers who judged each sentence as "OK" or "?" on the one hand, and "??" or "*" on the other.

Table 3: Data from Sigurðsson (1992: 74-76)
$\left.\begin{array}{llllll}\hline \hline & & & & \text { OK/? } & \text { ??/* } \\ \hline \text { a. } & \begin{array}{l}\text { Henni } \\ \text { her.DAT }\end{array} & \begin{array}{l}\text { líkaðir } \\ \text { liked.2SG }\end{array} & \begin{array}{l}\text { pú. } \\ \text { you.NOM }\end{array} & 0 & 9 \\ \text { b. } & \begin{array}{l}\text { Henni } \\ \text { her.DAT }\end{array} & \begin{array}{l}\text { likaði } \\ \text { liked.1/3sG }\end{array} & \begin{array}{l}\text { ég. }\end{array} & \text { I.NOM }\end{array}\right)$

With lika 'like', the agreeing form of 2 nd person singular is rejected by all speakers, while the syncretic 1st and 3rd person form leads to a split among speakers (see Table 4; syncretic forms in italics). The same split is witnessed for the syncretic 2nd and 3rd person plural of the -st verb leiðast 'bore'. However, the singular form leiddist, which is syncretic across all persons in the singular, is even more improved: only one speaker rejected it outright.

I will claim that the stronger ameliorative effect of singular -st syncretism is related to a more general aspect of -st morphology: the -st suffix collapses all person distinctions in the singular, and this holds across all inflectional classes, in all tenses and moods, and cannot be due to phonology. In the proposed analysis, the presence of -st prevents the building of the "contradictory" feature bundles which are typically assumed to cause problems in non-syncretic cases.

### 1.3 Proposal

The analysis developed here is basically as follows. Independently of DAT-NOM constructions, the -st suffix has a Person feature, which I will suggest to be

Table 4: Past tense forms of lika 'like' and leiðast 'bore'

|  | líka 'like' |  |  | leiðast 'bore' |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | SG | PL |  | SG | PL |
| 1 | likaði | líkuðum |  | leiddist | leiddumst |
| 2 | líkaðir | líkuðuð |  | leiddist | leiddust |
| 3 | líkaði | líkuðu | leiddist | leiddust |  |

[-participant], but no number feature. This allows it to be merged in an argument position under various conditions. It moves to a clitic position in the inflectional domain lower than the Number (Nm) head (which is lower than Person (Pn)), but higher than verb-phrase-internal arguments.

The singular syncretism can be understood by adopting Kratzer's (2009) proposal that Agree involves $\phi$-feature union, with the auxiliary assumption that singular number agreement is non-number agreement (see Nevins 2011). When Nm establishes an Agree relation with a plural object, Nm takes not only the number features but its other $\phi$-features as well - including person. When Pn probes, it has access to these person features only because they have been "piedpiped" past -st by feature union. They are present on the next inflectional head down, Nm, in line with Baker \& Willie (2010). When the object is singular, there is no such pied-piping and Pn can only Agree with -st.

The account can then be extended to capture object agreement restrictions in DAT-NOM constructions in a manner very similar to previous analyses (e.g. D’Alessandro 2003, Holmberg \& Hróarsdóttir 2004, Schütze 2003, Sigurðsson \& Holmberg 2008, Ussery 2009). Specifically, feature union builds up "contradictory" $\phi$-feature bundles, which are highly unacceptable when they correspond to different morphological exponents, but the result improves somewhat when all the features in this bundle are realized by identical exponents. The present account, however, can also explain why -st can help ameliorate such restrictions more than ordinary syncretism: when there is no featural pied-piping, it allows the syntax to proceed without building up the contradictory feature bundles to begin with. The question for the present account is why such forms are not completely perfect, a question which I will address but not answer. Importantly, the present proposal allows us to understand the three-way distinction between nonsyncretic forms, morphologically syncretic forms, and "syntactically" syncretic forms.

## 2 -st syncretism

## 2.1 -st syncretism is meta-paradigmatic and not phonological

An occasionally noted fact about -st verbs is that they are syncretic for person in the singular, but not the plural (Einarsson 1949: 100, Thomson 1987: 434-440, Anderson 1990: 242, Taraldsen 1995: fn. 2, Sigurðsson \& Holmberg 2008: 270). This is odd because usually, when distinctions are collapsed like this, it is in "marked" categories like plural, rather than "unmarked" categories like singular (cf. Ottósson 2008: 334). ${ }^{3}$ The -st verbs syncretism is thus meta-paradigmatic in Harley's (2008) terms: it occurs with every verb no matter what the morphological shapes of the non-st variant are. ${ }^{4}$ In the following tables, this meta-paradigmaticity is illustrated by means of examples across various verb classes, in both strong and weak paradigms. In Table 5, I show the phenomenon for the present tense paradigm for weak $i$-verbs and weak $a$-verbs.

Table 5: Weak verbs
(a) Weak i-verb: gera 'do' - Present

|  |  | SG | PL | SG |
| :--- | :--- | :--- | :--- | :--- |
| 1 | ger-i | ger-um |  | PL |
| 2 | ger-ir | ger-ið | ger-i-st | ger-i-st <br> 3 |
| ger-ir | ger-a |  | ger-a-st |  |

(b) Weak $a$-verb: hagga 'budge' - Present

|  | SG | PL | SG | PL |
| :--- | :--- | :--- | :--- | :--- |
| 1 | hagg-a | högg-um |  | högg-um-st |
| 2 | hagg-ar | hagg-ið | hagg-a-st | hagg-i-st |
| 3 | hagg-ar | hagg-a |  | hagg-a-st |

In Table 6, I show a full paradigm in past and present tense, indicative and subjunctive mood, for a particularly irregular strong verb $p v o$ 'wash'. In both tenses and both moods, the same syncretism occurs. In the present indicative,

[^2]
## Jim Wood

the 2nd singular $-r$ r and the 3rd singular -r disappear with $-s t$, collapsing all person distinctions. In the singular present subjunctive, past subjunctive, and past indicative, the 2nd singular $-r$ is lost with $-s t$. Table 7 shows that when the 2nd singular past tense suffix is itself -st, as with bera 'carry', distinctions are still lost and there is no sign of two -st morphemes.

Table 6: Strong $r$ ð-verb: $p v o$ 'wash' - Full paradigm

|  | SG | PL | SG | PL |
| :--- | :--- | :--- | :--- | :--- |
|  | Present |  |  |  |
| 1 | pvæ | pvo-um |  |  |
| 2 | pvæ-rð | pvo-ið | pvæ-st | pvo-um-st <br> pvo-i-st <br> 3 |
| pvæ-r | pvo |  | pvo-st |  |

Table 7: Past tense of bera 'carry' - Past

|  | SG | PL | SG | PL |
| :--- | :--- | :--- | :--- | :--- |
| 1 | bar | bár-um |  | bár-um-st |
| 2 | bar-st | bár-uð | bar-st | bár-u-st |
| 3 | bar | bár-u |  | bár-u-st |

Anderson (1990) observed that this cannot be a (solely) phonological effect. It is true that there are morphophonological effects with the -st suffix. For example, dentals ( $s, s t, t, t t, d)$ are often lost from the stem, as illustrated in Table 8. In one case, [ð] is lost from the stem in the present tense: bregð $+s t \rightarrow$ bregst (Table 9). Usually, it is retained in the present tense, as exemplified by býdst 'offer'. This could be (partly) phonotactic, since býð and bregð have different coda structures. However, [ $\chi$ ] is usually dropped in supine forms, unless it is preceded by /áa (IPA $=[\mathrm{au}]$ ) in the supine stem form (Thomson 1987: 380), so it is also at least partly morphophonological.

Table 8: Dental deletion with -st (data from Thomson 1987: 380)

| Dental | -st verb | non-st stem |  |  |  | output |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| -s- | kjósast | kýs | + | st | $\rightarrow$ | kýst | PRESENT |
| -t- | látast | læt | + | st | $\rightarrow$ | læst | PRESENT |
| -d- | haldast | held | + | st | $\rightarrow$ | helst | PRESENT |
| -st- | brestast | brast | + | st | $\rightarrow$ | brast | PAST |
| -tt- | hittast | hitt | + | st | $\rightarrow$ | hist | sUPINE |

Table 9: Dental deletion with -st (data from Thomson 1987: 380)

| -st verb | non-st stem |  |  |  | output |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| bjóðast | býð | + | st | $\rightarrow$ | býðst | PRESENT |
| bregðast | bregð | + | st | $\rightarrow$ | bregst | PRESENT |
| sjást | séð | + | st | $\rightarrow$ | sést | SUPINE |
| dást | dáð | + | st | $\rightarrow$ | dáðst | sUPINE |

Given these facts, the question becomes whether these rules are responsible for the meta-syncretism of person in the singular. It turns out that they cannot be (Anderson 1990). One main reason is that [r] is often lost when -st is added (cf. Table 6), but the sequence [rst] is allowed, even with -st verbs:
(5) Attested form
færst 'move' (supine)
berst 'carry' (sG, pres, -st form)

No reason to rule out... Actual form
pvær +-st $\rightarrow$ *pværst pvæst 'wash' sér $+-s t \rightarrow$ "sérst sést 'see'

Anderson (1990: 241) points out another near-minimal pair with *sérst: the superlative form of 'bad', which is verst 'worst'. This shows that the loss of the inflectional -r suffix is not due to the incompatibility of the [r] phone with the -st suffix.

Another indication that phonology is not to blame for -st syncretism comes from the form of strong -ur verbs, an example of which is given in Table 10. If -st syncretism were due to phonology, the /u/ (IPA = [y]) would be expected to be retained, predicting, for example, mylur +-st $\rightarrow$ *mylust, contrary to fact. Instead, the observed form is mylur $+-s t \rightarrow m y l s t$, and the same person syncretism in the singular as with all other verbs. ${ }^{5}$

For these reasons, the meta-paradigmatic collapse of person distinctions in the singular with all -st verbs cannot be due to phonology. The fact that such a heterogeneous class of suffixes (including -ur, $-r,-r ð,-ð,-s t$ ) fails to appear further suggests that it is not due to any simple kind of morphophonology either. I will discuss the particular morphological forms further in §2.3, after presenting my syntactic account of this syncretism.

### 2.2 A syntactic account of singular -st syncretism

My syntactic account of singular -st syncretism relies on the following assumptions. First, Person and Number are separate probes (Sigurðsson \& Holmberg 2008, Béjar 2008), and more specifically are separate functional heads in the inflectional domain. ${ }^{6}$
(6) $\left[\operatorname{Pn}^{0}\left[\mathrm{Nm}^{0}\left[\mathrm{~T}^{0}[\ldots]\right]\right]\right]$

Second, $\phi$-Agree is $\phi$-feature union/unification (Kratzer 2009, Harbour 2011). ${ }^{7}$ The following definitions are taken from Kratzer (2009).

[^3]Table 10: Strong verbs
(a) Strong -rð-verb: sjá 'see' - Present

|  | SG | PL | SG | PL |
| :--- | :--- | :--- | :--- | :--- |
| 1 | sé | sjá-um |  | sjá-um-st |
| 2 | sé-rð | sjá-ið | sé-st | sjá-i-st |
| 3 | sé-r | sjá |  | sjá-st |

(b) Strong -ð-verb: bera 'carry' - Present

|  | SG | PL | SG | PL |
| :--- | :--- | :--- | :--- | :--- |
| 1 | ber | ber-um |  | ber-um-st |
| 2 | ber-ð | ber-ið | ber-st | ber-i-st |
| 3 | ber | ber-a |  | ber-a-st |

(c) Strong -ur-verb: mylja 'pulverize' - Present

|  | SG | PL | SG | PL |
| :--- | :--- | :--- | :--- | :--- |
| 1 | myl | mylj-um |  | mylj-um-st |
| 2 | myl-ur | mylj-ið | myl-st | mylj-i-st |
| 3 | myl-ur | mylj-a |  | mylj-a-st |

(7) a. Agree: The $\phi$-feature set of an unindexed head $\alpha$ that is in need of $\phi$-features (the probe) unifies with that of an item $\beta$ (the goal) if $\beta$ is the closest element in $\alpha$ 's c-command domain that has the needed features. (Kratzer 2009: 197)
b. Phi-feature unification: [Unification] applies to expressions $\alpha_{1}, \ldots, \alpha_{n}$ with associated feature sets $A_{1}, \ldots, A_{n}$ and assigns to each $\alpha_{1}, \ldots, \alpha_{n}$ the new feature set $\bigcup\left\{A_{1}, \ldots, A_{n}\right\}$. (Kratzer 2009: 195)

Third, -st is an argument clitic which occupies a low clitic position, higher than VoiceP/vP, but lower than $\mathrm{Pn} / \mathrm{Nm} / \mathrm{T}$, as argued extensively in Wood (2015: ch. 2) (see also Eythórsson 1995, Kissock 1997, Sigurð̊sson 2012, Svenonius 2005, 2006). Thus, -st can in principle be an intervener for $\phi$-Agree.
(8) $\left[\operatorname{Pn}^{0}\left[\mathrm{Nm}^{0}\left[\mathrm{~T}^{0}\left[\ldots\right.\right.\right.\right.$-st $\ldots\left[(\mathrm{DP})\right.$ Voice $\left.\left.\left.\left.\left.^{0}\right]\right]\right]\right]\right]$

Fourth, -st has a person feature but no number feature. This is plausibly an independently necessary assumption if -st merges in an argument position (see Wood 2015). This assumption is supported empirically by the fact that -st developed diachronically from a 3rd person reflexive which was itself invariant for number, and by the fact that it has no other forms - it is insensitive to person/ number. ${ }^{8}$ The specific proposal that the morpheme is [-PARTICIPANT] captures the intuition that non-1st/2nd person features are involved that are not quite 3 rd person (since there is no specification for [ $\pm$ AUTHOR]).

Finally, morphological singular agreement is "non-number" agreement. Nevins (2011) argues for something along these lines, on a number of empirical grounds. The strongest of these is the typological absence of "number-case" constraints analogous to "person-case" constraints. ${ }^{9}$ He proposes that while Person features consist of two binary features [ $\pm$ AUTHOR, $\pm$ PARTICIPANT], number features are privative and involve either the presence or absence of (for example) [plural]; there is no "singular" feature in the syntax. For the present proposal, what is necessary is that singular DPs do not establish an Agree relation with Nm ; Nevins's stronger claim entails this. However, in the derivations below I will still represent DPs as though they contain "singular" features, for expositional purposes, since only the absence of singular agreement is important.

First, I will show how this works for a 1st person singular example without -st (and thus without the syncretism in question).
(9) Ég græt.
I.nom cry.1sG
'I cry.'
${ }^{8}$ In addition, there are precedents in the literature. D'Alessandro (2003) argues that Icelandic
-st and Italian impersonal si have a person feature which is not 1st or 2nd person, but does not
say more about exactly what kind of person feature this is. Taraldsen (1995) also claims that
Italian $s i$ is 3rd person and has no number feature.
${ }^{9} \mathrm{He}$ also cites, among other things, agreement phenomena in languages like Georgian, the ab-
sence of "inverse" constructions based on number (as opposed to person, where inverse con-
structions are common), and agreement attraction, which is always for number and not person.
(i) The key to the cabinets are missing.
(ii) *The story about you are interesting.

In (i), the plural cabinets is able to trigger number agreement on the verb, while in (ii), the embedded $y o u$ is not able to trigger person agreement.
(10) No-st - No Person syncretism in the singular

| a. | Pn | Nm | $\mathrm{DP}[1 \mathrm{sG}] \rightarrow \mathrm{Nm}$ probes |
| :---: | :---: | :---: | :---: |
| b. | Pn | Nm [ $\mathrm{DFLT}(\mathrm{SG})$ ] | $\mathrm{DP}[1 \mathrm{sG}] \rightarrow$ Pn probes |
| c. | $\mathrm{Pn}[1 \mathrm{sG}]$ | $\mathrm{Nm}[\mathrm{DFlt}(\mathrm{sG})$ ] | $\mathrm{DP}[1 \mathrm{sc}] \rightarrow$ DP moves for EPP |
| d. $\mathrm{DP}[1 \mathrm{sg}]$ | Pn[1sG] | $\mathrm{Nm}[\mathrm{DFlt}(\mathrm{gG})$ ] | ВP[1sc] |

In step (b), Nm probes for the nearest plural feature, on the above assumption that singular agreement is "non-number" agreement. It finds no plural feature, and thus takes on the default "singular" feature. In step (c), Pn probes for the nearest Person feature, and finds one on the subject DP. It establishes an Agree relation (Chomsky 2001), and given the assumption that $\phi$-Agree is $\phi$-feature union, Pn takes the DP's number as well as person. Finally, in step (d), the nearest DP, which happens to be the subject, moves to the left of Pn.

Now consider what happens when -st is present and intervenes between Pn and the potential DP goal.
(11) Ég meiddi-st.
I.nom hurt.1/2/3sG-ST
'I got hurt.'
(12) -st - Person syncretism in the singular
a. $\quad \mathrm{Pn} \quad \mathrm{Nm} \quad-\mathrm{st}[3] \mathrm{DP}[1 \mathrm{sG}] \rightarrow$ Nm probes
b. $\quad \operatorname{Pn} \quad \operatorname{Nm}[\operatorname{dflt}(s g)]-s t[3] \quad \mathrm{DP}[1 \mathrm{sg}] \rightarrow$ Pn probes
c. $\quad \operatorname{Pn}[3] \operatorname{Nm}[\operatorname{dFlt}(\mathrm{sg})]-\mathrm{st}[3] \mathrm{DP}[1 \mathrm{sG}] \rightarrow \mathrm{DP}$ moves for EPP
d. $\mathbf{D P}[1 \mathbf{s g}] \operatorname{Pn}[3] \operatorname{Nm}[\operatorname{dflt}(\mathrm{sg})] \quad-\mathrm{st}[3] \quad \mathrm{DP}[1 \mathrm{se}]$

Step (b) is the same as above. However, in step (c), -st intervenes between Pn and the DP - the would-be goal. Since -st has a Pn feature, an Agree relation is established between Pn and -st. Finally, the DP moves to the left of Pn to satisfy the EPP. Note that EPP, in this case, is dissociated from agreement. This is a necessary assumption about movement anyway to account for DAT-NOM constructions, where EPP-driven movement of a dative is dissociated from agreement with nominative objects.

Here, I take this dissociation to be even more general, so that Pn can Agree with -st, but the subject can move to satisfy the EPP (see also Baker \& Willie 2010: 118, where non-finite T has an EPP feature which triggers movement even though it is not a probe for agreement).

Now consider how number agreement along with feature union can avoid syncretism.
(13) Við gef-um-st upp.
we.nom give-1pl-st up
'We surrender.' (Kissock 1997: 3)
(14) $-s t$ - No Person syncretism in the plural
a. $\quad \mathrm{Pn} \quad \mathrm{Nm} \quad-\mathrm{st}[3] \mathrm{DP}[1 \mathrm{PL}] \rightarrow$ Nm probes
b. $\quad$ Pn $\quad \mathrm{Nm}[1 \mathrm{PL}]-\mathrm{st}[3] \mathrm{DP}[1 \mathrm{PL}] \rightarrow$ Pn probes
c. $\quad \operatorname{Pn}[1 \mathbf{P L}] \operatorname{Nm}[1 \mathbf{p L}]-s t[3] \operatorname{DP}\left[1_{\mathrm{PL}}\right] \rightarrow$ DP moves for EPP
d. $\mathrm{DP}[1 \mathrm{pl}] \operatorname{Pn}[1 \mathrm{pl}] \quad \mathrm{Nm}[1 \mathrm{pL}]-\mathrm{st}[3] \mathrm{DP}[1 \mathrm{pl}]$

When Nm probes for a plural feature, it finds one on the DP and establishes an Agree relation. Since Agree is feature union, Nm takes on the Person features of the goal as well. When Pn probes, it finds the Person features on the Nm head and establishes an Agree relation. It picks up both the Person and Number features of the Nm head. Thus, establishing an Agree relation with the plural DP allows the Person features to be "pied-piped" across -st, preventing intervention of the latter.

### 2.3 The morphology of -st syncretism

So far, I have argued that -st has a 3rd person feature, [-PARTICIPANT], so that person agreement past -st is not possible. It is worth considering how this specific choice of feature leads to the morphological forms observed. It cannot be an ordinary 3rd person feature bundle (e.g. [-PARTICIPANT,-AUTHOR]) because that would predict the syncretic form to look more like the non-st 3rd person form than it does. Consider Table 11. If it were an ordinary 3rd person feature bundle, the expected singular form of myljast would be myl-ur-st, when in fact it is mylst.

Table 11: Strong -ur-verb: mylja 'pulverize' - Present

|  | SG | PL | SG | PL |
| :--- | :--- | :--- | :--- | :--- |
| 1 | myl | mylj-um |  | mylj-um-st |
| 2 | myl-ur | mylj-ið | myl-st | mylj-i-st |
| 3 | myl-ur | mylj-a |  | mylj-a-st |

This issue is resolved by assuming that that the -ur ending reflects the feature [-AUTHOR]. Where there is a distinction between 2nd and 3rd person, the 2nd person morpheme is [-AUTHOR, +PARTICIPANT].
a. [-AUTHOR, +PARTICIPANT] $\leftrightarrow[\mathrm{r} ð],[ð], \ldots$
b. [-AUTHOR $] \quad \leftrightarrow[r],[\mathrm{ur}], \ldots$
c. elsewhere $\leftrightarrow \varnothing,[\mathrm{a}], \ldots$

Given this much, the intuition that -st is 3rd person but not fully 3rd person can be captured by saying that it is [-Participant] (compare Figures 1 and 2). Since there are no forms to realize just this feature, it adopts the "elsewhere" zero agreement allomorph. ${ }^{10}$


Figure 1: Singular agreement with -st


Figure 2: "True" thirdperson singular agreement

## 3 Ameliorative effect of -st syncretism

Recall from earlier that a range of analyses in the literature cited above argues that both the 1st/2nd person agreement restrictions and the improvement in the context of syncretic forms stem from the verb agreeing in person with both the dative and the nominative. When verbal inflectional heads successfully Agree with a dative argument, they may continue to probe and, when possible, enter into a Multiple Agree relation with a nominative as well (Schütze 2003, Sigurðsson \& Holmberg 2008, Ussery 2009, Atlamaz \& Baker 2018, Coon \& Keine 2021). ${ }^{11}$

[^4]The Agree relation with the nominative, however, is only licit if the dative subsequently moves to the left of the probe (Holmberg \& Hróarsdóttir 2004, Kučerová 2007, 2016, Sigurðsson \& Holmberg 2008, see also Chomsky 2008). In this situation, the probe receives default 3rd person features from the dative (regardless of whether the dative is actually 3 rd person), and whatever features the nominative bears. I adopt this analysis as well, but only for a subset of cases, namely person sycretism in the plural and non-st cases.

Without the analysis of -st given above, these accounts predict two situations: either there exists a syncretic form, and the example improves, or there exists no syncretic form, and the example is out. These predictions are summarized in Table 13 for the forms in Table 12 (syncretic forms italicised in both tables).

Table 12: Syncretic Forms

|  | lika 'like' |  |  | leiðast 'bore' |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | SG | PL |  | SG | PL |  |
| 1 | likaði | líkuðum |  | leiddist | leiddumst |  |
| 2 | líkaðir | líkuðuð |  | leiddist | leiddust |  |
| 3 | líkaði | líkuðu | leiddist | leiddust |  |  |

Table 13: Predictions of Multiple Agree accounts

|  | Verb | Feature bundle | Syncretic form? |  |
| :--- | :--- | :--- | :--- | :--- |
| a. | leiðast 'bore' | 1/2sG+3 | Yes | $\rightarrow$ Improved |
| b. | leiðast 'bore' | 2PL+3 | Yes | $\rightarrow$ Improved |
| c. | leiðast 'bore' | 1PL+3 | No | $\rightarrow$ Bad |
| d. | líka 'like' | 1sG+3 | Yes | $\rightarrow$ Improved |
| e. lika 'like' | 2sG+3 | No | $\rightarrow \mathrm{Bad}$ |  |
| f. líka 'like' | 1PL+3 | No | $\rightarrow \mathrm{Bad}$ |  |
| g. | lika 'like' | 2PL+3 | No | $\rightarrow \mathrm{Bad}$ |

However, as shown in Table 14, there seem to be three classes of acceptability rather than two. Most speakers found the 1st and 2nd plural singular nominative objects with the -st verb leiðast 'bore' either OK or "?". The plural syncretism of leiðast in the $2 \mathrm{nd} / 3$ rd person fared on par with the 1 st/3rd person singular syncretism of the non-st verb lika 'like', where the judgments split.

Table 14: Acceptability of syncretic and non-syncretic forms (Data from Sigurðsson 1992: 74-76)

| Improvement due to singular -st syncreticism |  |  |  | OK/? |
| :--- | :--- | :--- | :--- | :--- | ??/*

I now show how the account of -st syncretism provided above captures these data. Specifically, while my account admittedly predicts the singular -st cases to be fully grammatical (contrary to fact), it makes the cut in the right direction: it predicts a difference between Table 14a and 14b. There are arguably further constraints on 1st/2nd person nominative objects which account for the fact that the examples in Table 14a are not perfect (see discussion below).

First, consider improvement due solely to syncretism (Sigurðsson 1996: 33).
(4) a. ?? Henni líkaði ég. her.Dat liked.1/3sg I INTENDED: 'She liked me.'
b. * Henni líkaðir pú. her.DAT liked.2sG you.sG Intended: 'She liked you.' (Sigurðsson 1996: 33)
(16) DAT-NOM singular non-agreement (2nd person NOM)
a. $\mathrm{Pn} \quad \mathrm{Nm} \quad$ DAT[3] NOM[2SG] $\rightarrow$ Nm probes
b. $\quad \operatorname{Pn} \quad \operatorname{Nm}[\operatorname{dflt}(s G)] \operatorname{DAT}[3] \operatorname{NOM}[2 \mathrm{sG}] \rightarrow$ Pn probes dat/nom
c. $\quad \operatorname{Pn}[2 s \mathrm{sg}, 3] \operatorname{Nm}[\mathrm{dflt}(\mathrm{sg})] \quad \operatorname{Dat}[3] \operatorname{Nom}[2 \mathrm{sg}] \rightarrow$ DP moves for EPP
d. dat[3] Pn[2sg,3] Nm[dflt(sG)] bat[3] nom[2sg]

The Nm head does not pied-pipe any Person features since nom is singular. The Pn head agrees with both dat and nom, and thus has the feature bundle [2sG, 3]. This is ungrammatical since there is no form syncretic for both 2nd and 3rd person singular. However, if nom had been 1st person, there is a syncretic form, so the example improves slightly. Note that even in the syncretic form, the syntax still contains a phi-feature bundle with contradictory values. ${ }^{12}$

Now consider what happens when -st is involved.
a. ? Henni leiddist ég.
her.DAT bored.1/2/3sG I
'She found me boring.'

[^5]b. ? Henni leiddist pú. her.DAT bored.1/2/3sG you.sG 'She found you boring.' (Sigurðsson 1996: 33)
c. Mér leiddist hún. me.DAt bored. $1 / 2 / 3 \mathrm{sG}$ she.sG 'I found her boring.' (Sigurðsson 2011: 16)
(18) DAT-NOM singular -st non-agreement (2nd person NOM)
a. $\mathrm{Pn} \mathrm{Nm} \quad-\mathrm{st}[3]$ DAT[3] NOM[2sG] $\rightarrow$ Nm probes
b. $\quad \operatorname{Pn} \quad \operatorname{Nm}[\operatorname{dflt}(\mathbf{s G})]-\mathrm{st}[3] \operatorname{dAt}[3] \operatorname{NOM}[2 \mathrm{sG}] \rightarrow$ Pn probes $-s t$
c. $\quad \operatorname{Pn}[3] \operatorname{Nm}[\operatorname{Dflt}(\mathrm{sG})]-\mathrm{st}[3] \operatorname{DAT}[3] \operatorname{NOM[2sG]} \rightarrow$ DP moves for EPP
d. dat[3] Pn[3] Nm[dflt(sg)] -st[3] Dat[3] Nom[2sg]

This time, when Pn probes, it agrees with -st rather than nom. Thus, when -st is present, there is no conflict. The question that arises on my approach is why these examples are marked at all. Unlike above, the syntax here never builds a contradictory feature bundle in the first place. The difference in acceptability judgments thus has to be linked to the different elements present in the syntax.

Finally, consider -st with a plural nominative object (Sigurðsson 1996: 33). ${ }^{13}$
(19) a. * Henni leiddumst við. her.DAt bored.1pl we INTENDED: 'She found us boring.'
b. ?? Henni leiddust pið. her.dAt bored.2/3pl you.pl INTENDED: 'She found you (plural) boring.' (Sigurðsson 1996: 33)
(20) DAT-NOM plural -st non-agreement (2nd person NOM)
a. $\mathrm{Pn} \quad \mathrm{Nm} \quad-\mathrm{st}[3] \operatorname{DAT}[3]$ NOM[2pl] $\rightarrow$ Nm probes
b. $\quad$ Pn
$\operatorname{Nm}[2 \mathrm{PL}]-\mathrm{st}[3]$ DAT[3] $\mathrm{NOM}[2 \mathrm{PL}]$
$\rightarrow$ DAT moves
c. $\quad$ Pn
DAt[3] Nm [2pl] -st[3] DAt[3] NOM[2pL]
$\rightarrow$ Pn probes DAT/Nm
d. $\quad \operatorname{Pn}[2 \mathbf{P L}, 3] \operatorname{DAt}[3] \operatorname{Nm}[2 \mathrm{PL}]-\mathrm{st}[3] \operatorname{bat}[3] \operatorname{NOM}[2 \mathrm{PL}]$ $\rightarrow$ DP moves for EPP
e. Dat[3] Pn[2pl,3] DAt[3] $\mathrm{Nm}[2 \mathrm{pl}]$-st[3] DAt[3] NOM[2pl]

[^6]Here, featural pied-piping allows the contradictory feature bundles to be built. Nm enters into an Agree relation with the nominative, and thus obtains 2nd person plural features. The dative is thus required to move to its left, as discussed above. Pn agrees with the dative and the Nm head, picking up 3rd person and 2 nd person plural features. Thus, plural forms of leiðast 'bore' pattern like all forms of lika 'like': they are ungrammatical unless syncretism improves acceptability slightly. The fact that leiðast 'bore' behaves in the 2nd person plural like the non-st verb lika 'like' shows that it is not the -st morpheme plus syncretism which improves the example per se; -st only improves it (beyond the non-st cases) when its presence prevents the syntax from building up the contradictory feature bundle which needs a syncretic form to survive. The syntactic approach to -st syncretism proposed for here predicts this to be the case.

As a final remark, note that nothing in the present account predicts singular 1st/2nd person objects of leiðast 'bore' to be less than perfect. Possibly, 1st/2nd person nominatives are subject to special constraints. Cartographic work often posits particular positions for 1st/2nd person (Săvescu Cuicivara 2009). Note that even in infinitive contexts, where agreement should not be an issue, such objects are slightly degraded.
(21) ? Hún vonaðist auðvitað til að leiðast við/bið/beir ekki mikið. she hoped of.course for to bore.InF we/you/they.NOM not much 'She of course hoped not to find us/you/them very boring.' (Sigurðsson \& Holmberg 2008: 271)

Sigurðsson \& Holmberg (2008: 271) suggest that this is due to the difficulty of controlling non-agentive predicates. However, it is suggestive that when agreement is not at issue, 1st/2nd person objects are only slightly degraded. Why they are degraded at all is a question I must set aside for now. ${ }^{14}$

## 4 Conclusion

In this paper I have proposed that syncretism can shed light on the size of feature bundles involved in Agree relations and the nature of those relations. At a general level, $\phi$-features are individually active in Agree relations and in syntactic primitives, but since Agree works as unification, collections of $\phi$-features are

[^7]quickly assembled into bundles in the course of the derivation. But they are not always assembled in the same way. The -st clitic has a person feature (proposed to be [-PARTICIPANT]) which induces person syncretism in the singular for all -st verbs, but which also "shields" the grammar from building contradictory feature bundles in the presence of 1st and 2nd person nominative objects - again, though, only in the singular. The special status of plural in this collection of facts stems from what I have called "featural pied-piping": the presence of a plural feature leads to the establishment of an Agree relation with the consequence that person features are "pied-piped" to the Nm head - past -st, which now can neither induce syncretism nor shield the grammar from the person features of 1st/2nd person nominative objects. Why plural features are like this remains to be established, but if singular is really the absence of a privative number feature, then perhaps "singular agreement" must be the absence of number agreement. The broad implication is that the larger a feature bundle is, the harder it will be for the grammar to stop that bundle from being a goal in an Agree relation.

## Abbreviations

| 1 | 1st person | DAT | dative | NOM | nominative |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 2 | 2nd person | DFLT | default | PL | plural |
| 3 | 3rd person | INF | infinitive | SG | singular |
| ACC | accusative | M | masculine | ST | -st clitic |

## References

Aalberse, Suzanne \& Jan Don. 2010. Person and number syncretisms in Dutch. Morphology 21(2). 1-24. DOI: 10.1007/s11525-010-9164-3.
Anderson, Stephen R. 1990. The grammar of Icelandic verbs in -st. In Joan Maling \& Annie Zaenen (eds.), Modern Icelandic syntax, 235-273. New York: Academic Press.
Asarina, Alevtina Alya. 2013. Neutrality vs. ambiguity in resolution by syncretism: Experimental evidence and consequences. In Yelena Fainleib, Nicholas LaCara \& Yangsook Park (eds.), Proceedings of the 41st annual meeting of the North East Linguistic Society, 43-56. Amherst, MA: GLSA Publications.
Atlamaz, Ümit \& Mark C. Baker. 2018. On partial agreement and oblique case. Syntax 21(3). 195-237.
Baker, Mark C. \& Willie Udo Willie. 2010. Agreement in Ibibio: From every head to every head. Syntax 13(2). 99-132.

Béjar, Susana. 2008. Conditions on phi-Agree. In Daniel Harbour, David Adger \& Susana Béjar (eds.), Phi theory: Phi-features across modules and interfaces, 130154. Oxford: Oxford University Press.

Béjar, Susana \& Diane Massam. 1999. Multiple case checking. Syntax 2(2). 65-79.
Bhatt, Rajesh \& Martin Walkow. 2013. Locating agreement in grammar: An argument from agreement in conjunctions. Natural Language \& Linguistic Theory 31(4). 951-1013.
Bjorkman, Bronwyn M. 2016. Go get, come see: Motion verbs, morphological restrictions, and syncretism. Natural Language \& Linguistic Theory 34. 53-91.
Boeckx, Cedric. 2000. Quirky agreement. Studia Linguistica 54(3). 354-380.
Chomsky, Noam. 2001. Derivation by phase. In Michael Kenstowicz (ed.), Ken Hale: A life in language, 1-52. Cambridge, MA: MIT Press.
Chomsky, Noam. 2008. On phases. In Robert Freidin, Carlos P. Otero \& Maria Luisa Zubizarreta (eds.), Foundational issues in linguistic theory: Essays in honor of Jean-Roger Vergnaud, 133-166. Cambridge, MA: MIT Press.
Citko, Barbara. 2005. On the nature of merge: External merge, internal merge, and parallel merge. Linguistic Inquiry 36(4). 475-496.
Coon, Jessica \& Stefan Keine. 2021. Feature gluttony. Linguistic Inquiry 52(4). 655710.

D'Alessandro, Roberta. 2003. On quirky subjects and the person restriction in Icelandic and Italian. In Marjo van Koppen, Joanna Sio \& Mark de Vos (eds.), Proceedings of ConSOLE XI, 1-16. http://www.hum.leiden.edu/lucl/research/ sole/proceedings/console11.html.
Einarsson, Stefán. 1949. Icelandic: Grammar, texts, glossary. Baltimore: The John Hopkins Press.
Eythórsson, Thórhallur. 1995. Verbal syntax in the early Germanic languages. Cornell University. (Doctoral dissertation).
Harbour, Daniel. 2011. Valence and atomic number. Linguistic Inquiry 42(4). 561594.

Harley, Heidi. 2008. When is a syncretism more than a syncretism? Impoverishment, metasyncretism, and underspecification. In Daniel Harbour, David Adger \& Susana Béjar (eds.), Phi theory: Phi-features across modules and interfaces, 251-294. Oxford: Oxford University Press.
Hein, Johannes \& Andrew Murphy. 2020. Case matching and syncretism in ATBdependencies. Studia Linguistica 74(2). 254-302.
Holmberg, Anders \& Thorbjörg Hróarsdóttir. 2004. Agreement and movement in Icelandic raising constructions. Lingua 114. 651-673.
Kissock, Madelyn. 1997. Middle verbs in Icelandic. American Journal of Germanic Linguistics 9(1). 1-22.

Koopman, Hilda. 2006. Agreement configurations: In defense of "Spec head". In Cedric Boeckx (ed.), Agreement systems, 159-199. Philadelphia: John Benjamins.
Kotek, Hadas. 2014. Wh-fronting in a two-probe system. Natural Language \& Linguistic Theory 32(4). 1105-1143.
Kratzer, Angelika. 2009. Making a pronoun: Fake indexicals as windows into the properties of pronouns. Linguistic Inquiry 40(2). 187-237.
Kučerová, Ivona. 2007. Agreement in Icelandic: An argument for derivational theory of intervention effects. In Erin Bainbridge \& Brian Agbayani (eds.), Proceedings of the 34th Western Conference on Linguistics, 272-284. Fresno: University of California.
Kučerová, Ivona. 2016. Long-distance agreement in Icelandic: Locality restored. The Journal of Comparative Germanic Linguistics 19(1). 49-74.
Nevins, Andrew. 2011. Multiple agree with clitics: Person complementarity vs. omnivorous number. Natural Language \& Linguistic Theory 29. 939-971.
Ottósson, Kjartan. 2008. The diffusion of systemic changes through the inflectional system: Evidence from person-number inflection in the Nordic languages and German. In Thórhallur Eythórsson (ed.), Grammatical change and linguistic theory: The Rosendal papers, 329-356. Philadelphia: John Benjamins.
Oxford, Will. 2019. Inverse marking and Multiple Agree in Algonquin. Natural Language \& Linguistic Theory 37(3). 955-996.
Pullum, Geoffrey K. \& Arnold M. Zwicky. 1986. Phonological resolution of syntactic feature conflict. Language 62(4). 751-773.
Săvescu Cuicivara, Oana. 2009. A syntactic analysis of pronominal clitic clusters in Romance: The view from Romanian. New York University. (Doctoral dissertation).
Schütze, Carson T. 2003. Syncretism and double agreement with Icelandic nominative objects. In Lars-Olof Delsing, Cecilia Falk, Gunlög Josefsson \& Halldór Ármann Sigurðsson (eds.), Grammatik i fokus/Grammar in focus: Festschrift for Christer Platzack, vol. II, 295-303. Lund: Department of Scandinavian Languages.
Sigurðsson, Halldór Ármann. 1989. Verbal syntax and case in Icelandic. Lund University. (Doctoral dissertation).
Sigurðsson, Halldór Ármann. 1992. Um beygingarsamræmi og málkunnáttu [On agreement and language knowledge]. Îslenskt mál og almenn málfræði 14. 6387.

Sigurðsson, Halldór Ármann. 1996. Icelandic finite verb agreement. Working Papers in Scandinavian Syntax 57. 1-46.

Sigurðsson, Halldór Ármann. 2010. On EPP effects. Studia Linguistica 64(2). 159189.

Sigurðsson, Halldór Ármann. 2011. On the new passive. Syntax 14(2). 148-178.
Sigurðsson, Halldór Ármann. 2012. Minimalist C/case. Linguistic Inquiry 43(2). 191-227.
Sigurðsson, Halldór Ármann \& Anders Holmberg. 2008. Icelandic dative intervention: Person and number are separate probes. In Roberta D'Alessandro, Susan Fischer \& Gunnar Hrafn Hrafnbjargarson (eds.), Agreement restrictions, 251-280. Berlin: Mouton de Gruyter.
Svenonius, Peter. 2005. The nanosyntax of the Icelandic passive. Paper presented at the Lund Grammar Colloquium. http://goo.gl/vvmeHo.
Svenonius, Peter. 2006. Case alternations and the Icelandic passive and middle. In Satu Manninen, Diane Nelson, Katrin Hiietam, Elsi Kaiser \& Virve Vihman (eds.), Passives and impersonals in European languages. Amsterdam: John Benjamins. http://goo.gl/Ihgh4S.
Taraldsen, Knut Tarald. 1995. On agreement and nominative objects in Icelandic. In Hubert Haider, Susan Olsen \& Sten Vikner (eds.), Studies in comparative Germanic syntax, 307-327. Papers presented at the 7th workshop on comparative Germanic syntax, held at the University of Stuttgart in November 1991. Dordrecht: Kluwer.
Thomson, Colin D. 1987. Icelandic inflections. Hamburg: Buske.
Ussery, Cherlon. 2009. Optionality and variability: Syntactic licensing meets morphological spell-out. University of Massachusetts, Amherst. (Doctoral dissertation).
van Urk, Coppe. 2015. A uniform syntax for phrasal movement: A case study of Dinka Bor. Massachusetts Institute of Technology. (Doctoral dissertation).
Williams, Edwin. 1994. Remarks on lexical knowledge. Lingua 92. 7-34.
Wood, Jim. 2014. Reflexive -st verbs in Icelandic. Natural Language \& Linguistic Theory 32(4). 1387-1425.
Wood, Jim. 2015. Icelandic morphosyntax and argument structure. Dordrecht: Springer.
Ximenes, Cristina. 2007. Object gap in Icelandic and short object movement. Manuscript, MIT. Available on lingbuzz http://ling.auf.net/lingBuzz/000458.


[^0]:    ${ }^{1}$ Săvescu Cuicivara (2009) has a syntactic account of syncretism effects on Romanian clitic order which, like the present one, involves the intrinsic features of elements in the derivation.

[^1]:    ${ }^{2}$ Since lika 'like' is an asymmetric dative-nominative verb, where the dative is always the subject, unambiguous 1st/2nd person agreement is generally ungrammatical, so these forms (other than $1 / 3$ sg likaði and 3pl) likuðu are quite rare; the forms shown are what the agreeing forms would be, based on the general rules of inflection in Icelandic. Einar Freyr Sigurðsson points out to me that these forms are, however, used by many speakers with a more recent, agentive sense of the word lika, with a nominative subject, which refers to clicking the "like" button on Facebook.

[^2]:    ${ }^{3}$ See also Aalberse \& Don (2010) (and the references on page 3 there), where it is argued that neutralization is usually induced in marked categories, the plural being their primary example. ${ }^{4}$ Harley (2008) cites Williams (1994) as being the first to identify the "meta-paradigm" as a phenomenon.

[^3]:    ${ }^{5}$ The loss of certain phones, such as [ $ð$ ] on ber $\varnothing+-s t \rightarrow$ berst, however, could be derived by phonological deletion. Note that in the case of breg $\partial+-s t \rightarrow$ bregst, it is a non-inflectional stem [ $\varnothing$ ] that is deleted, whereas with berð + -st $\rightarrow$ berst, it is an inflectional suffix - $ð$; since this is the only distinguishing suffix in this subparadigm, it is not possible to tell if this is phonological deletion or not. Similarly, it may be that [ $ð$ ] deletion in the 2nd person plural, illustrated for example by $p v o-i \delta+-s t \rightarrow p v o-i-s t$ 'wash', is similarly phonological.
    ${ }^{6}$ It is not strictly necessary in the present account that they be separate heads, as I assume, as long as Person and Number probe separately, and Number probes first.
    ${ }^{7}$ The mechanism I adopt is from Kratzer (2009), but Harbour (2011) has a similar approach. Specifically, he argues that a probe can pick up two sets of features, even if they conflict in feature values, and proposes that there are morphemes in Kiowa which are specifically sensitive to conflicting feature values; see also Oxford (2019). A reviewer points out the present proposal is conceptually similar to Kotek's (2014) notion of parasitic agreement and van Urk's (2015) notion of "best match", although the details of these proposals are different enough that they cannot be imported without modification into the present analysis.

[^4]:    ${ }^{10}$ Another possibility, pointed out to me by Neil Myler (p.c.), is that -st itself is a person agreement morpheme, and that what appears to be plural person agreement is actually just number agreement with allomorphs determined by person. While I find this idea appealing, it is challenged by the fact that -st appears on infinitive forms and supine forms, neither of which shows agreement inflection of any other kind.
    ${ }^{11}$ I assume that dative arguments are special in this regard, and that Multiple Agree does not occur when Pn agrees with a nominative subject, the -st clitic, etc.

[^5]:    ${ }^{12}$ I assume, following Bjorkman (2016), that when one head has two feature sets of the same type, Vocabulary Insertion must apply twice, once for each feature set, and the result is only grammatical if those two separate competitions result in the same form. For other proposals in the same spirit (but with different details), see Citko (2005), Kratzer (2009), Bhatt \& Walkow (2013), Asarina (2013) and Coon \& Keine (2021), among others. Coon \& Keine (2021) develop an insightful account of ameliorative syncretism in Icelandic dAT-NOM constructions very much in the spirit of the present paper. Their analysis does not account for the special effects of singular -st syncretism, and something different from the present account would have to be said about why $-s t$, despite being third person, intervenes for person agreement.

[^6]:    ${ }^{13}$ Sigurðsson marks both examples as ungrammatical, but recall from Table 14a that the improvement of (19b) over (19a) is comparable to the improvement of (4a) over (4b).

[^7]:    ${ }^{14}$ Einar Freyr Sigurðsson points out to me that in principle this should hold for all dativenominative verbs, whether -st is present or not. However, independent factors may vary, and as far as I know there has not been any thorough study of the matter. See Sigurðsson (2010) for a proposal that may bear on the question.

