

Auxiliary selection in Southern Lazio. Some implications for Romance microvariation and its limits

1. *Introduction*

The languages spoken in the southern area of the Lazio region (i.e. Southern Lazio; henceforth SL) constitute an example of unexplored microvariation within Italo-Romance. Although there is an extensive literature dedicated to the area (especially from a phonological/phonetic perspective)¹, the morphosyntax of these varieties has been mostly overlooked up to now. Owing to the linguistic fragmentation of the Lazio region (De Mauro, Lorenzetti 1991, p. 310) and the absence of a regional ‘Laziale’ type (Colasanti 2018b, pp. 3-4), the southern area of Lazio has been particularly interesting for traditional dialectologists who classified it as a ‘transitional’ area between the varieties spoken in the central part of Italy (i.e. central Italian varieties) and those spoken in the upper southern part of Italy (i.e. upper southern Italian varieties) on the basis of phonological and phonetic features. In fact, a very important isogloss, the so-called Rome-Ancona isogloss, crosses the Lazio region and divides it in different subareas.

In more recent years, it has been argued from a morphosyntactic point of view that SL should continue to be considered a transitional area between central and upper southern varieties (Colasanti 2018b). This claim is mostly based on properties such as complementation and auxiliary selection. SL varieties exhibit complex systems of complementation, which are mostly typical of upper southern varieties²; witness the case of Abruzzese varieties (e.g. Arielli: D’Alessandro, Ledgeway 2010a; Lancianese: Manzini, Savoia 2005). However, SL varieties also present complex systems of auxiliation, which are in fact mostly found in central varieties (Cocchi 1995; Lorenzetti 1995) and only in some respects also in upper southern varieties (see Ledgeway 2019). Consequently, the fact that SL varieties present both complex systems of

¹ See Ceci (1886); Vignoli (1911, 1925); Maccarrone (1915); Devoto (1972); Pellegrini (1977, p. 31); Vignuzzi (1981, p. 63, 1988, p. 614); Schanzer (1989); Maiden (1991); De Mauro, Lorenzetti (1991); Fanciullo (1994); Merolle (1995); Avolio (1995, 2000, 2001, 2013); Trifone (1997); Colasanti (2008, 2011); *i.a.*

² Cf. the central varieties spoken in the Lazio region investigated by Manzini, Savoia (2005, vol. II).

complementation and auxiliation justifies Colasanti (2018b) in advancing the hypothesis that this area is the result of microcontact between the varieties spoken in the centre and those spoken in the upper South of Italy. This, in turn, explains the presence of more hybrid and unique patterns of microvariation.

In this paper, I illustrate a number of patterns of variation found in SL perfective auxiliary systems, including some not previously attested in the Romance literature (e.g. gender sensitivity). On a par with other Romance varieties, the perfective auxiliary encodes a variety of grammatical information, including person and number of the subject, and tense/mood of the overall periphrasis (for an overview, see Loporcaro 1998; Ledgeway 2012, pp. 317-327, 2019, *i.a.*). In the second part of the paper, the clusters of microparameters and their different combinations found in SL auxiliary selection will be modelled in terms of parameter hierarchies, following recent work by Ledgeway (2019). While the main goal of this paper is descriptive, a parameter hierarchy approach allows us to explain how the microparameters found in SL varieties are implicationally related to each other and help us predict the existence of possible and impossible auxiliary systems in Romance.

The paper is organised as follows. In § 2, I briefly review well-known patterns of variation in Romance perfective auxiliary selection. In § 3, I introduce the different auxiliary systems found in SL varieties: pure argument-driven systems (§ 4), partial argument-driven systems (§ 5), hybrid argument-driven systems (§ 6), person-driven systems (§ 7), and tense-and-mood-driven auxiliary systems (§ 8). In § 9, I present a microtypology of auxiliary systems in SL, and in § 10 I model the variation found in SL auxiliary systems in terms of parameter hierarchies. In § 11, I provide some conclusions.

2. *Background: auxiliary selection in Romance*

Data from SL varieties show multiple language-specific parameters of variation in perfective auxiliary selection³. In fact, different SL varieties show a mixture of the patterns already found across the *România*. Before describing the patterns of auxiliary selection in SL (§ 3), I briefly describe five different dimensions of variation which can be found across Romance,

³ The data were collected between September 2015 and September 2019 by the author. Where not otherwise specified, all the data belong to the author.

i.e. split systems driven by argument structure, person, tense, and mood, as well as a complete lack of auxiliary alternation⁴.

Argument structure can determine the choice between the two auxiliaries in Romance⁵. For instance, transitive/unergative predicates with Agent subjects select HAVE (1b), whilst unaccusatives with non-Agent subjects select BE (1a), regardless of TAM (i.e. Tense-Aspect-Mood) values. In particular, auxiliary selection in Romance may draw a distinction between active (1b) and stative (1a) subjects (A/S_A vs S_O).

(1) *Standard Italian*

- | | | |
|----|--|-----------------------|
| a. | Sono arrivato. | unaccusative |
| | I. _{SO} .am arrived.M.SG | |
| | 'I have arrived.' | |
| b. | Ho mangiato (una pizza). | unergative/transitive |
| | I. _{A/S_A} .have eaten.M.SG a.F.SG pizza.F.SG | |
| | 'I have eaten (a pizza).' | |

In a number of different Romance varieties, we can find person-driven auxiliation. In particular, in a large number of central varieties (e.g. Ariellese: (2); D'Alessandro, Roberts 2010, pp. 42-44), southern varieties (e.g. Barese: Andriani 2017, p. 171), northern varieties (Alessandria variety), and some northern Catalan dialects (Badia i Margarit 1951; Tuttle 1986; Ledgey 2012, 2013; Mateu 2016), auxiliary selection is sensitive to the grammatical person of the nominative subject, yielding a nominative-accusative system which distinguishes all types of subjects (i.e. A/S_A , S_O) from O. The general tendency is that BE aligns with 1st and 2nd persons and HAVE with

⁴ For an exhaustive account of auxiliary distribution across Romance, see Loporcaro (2007) and Ledgey (2019), *i.a.*

⁵ In my discussion below, following a widely accepted typological distinction (Dixon 1994, pp. 6-8; La Fauci 1988, p. 12; see also Comrie 1989, pp. 110-116), I refer to the three core clausal participants as 'A' ('subject of transitive verb'; experiencers included), 'O' ('object of transitive verb') and 'S' ('subject of intransitive verb'). Moreover, I also take into consideration ' S_A ' ('subject of unergative verb') and ' S_O ' ('subject of unaccusative verb'). To varying degrees, languages encode these core participants mostly (but not only) through verb marking systems (agreement, auxiliaries, and voice distinctions), which organise these sentential participants into three typological alignments (La Fauci 1988, p. 12):

- (i) a. A is formally distinguished from O and, in turn, shares the same formal marking as S_A/O (nominative accusative alignment);
- b. O is formally distinguished from A, and, in turn, shares the same formal marking as S_A/O (ergative-absolutive alignment);
- c. A is formally distinguished from O, but the formal marking of S is split between A ($=S_A$) and O ($=S_O$) (active-stative alignment).

This list is not meant to be exhaustive. See Dixon (1994) and Comrie (1989).

3rd persons (see Tuttle 1986; Cocchi 1995; Ledgeway 2000, 2019; Bentley, Eythórsson 2001; Manzini, Savoia 2005; Loporcaro 2007; D'Alessandro, Ledgeway 2010b; Cennamo 2010; *i.a.*).

(2) *Ariellese* (D'Alessandro, Roberts 2010, pp. 42-44)

so' / si / a / seme / sete / a cascade / fatijate / fatte
 I.am you.are s/he.has we.are you.are they.have fallen.M.SG worked.M.SG done.M.SG
 na torte.
 a cake
 'I am, you are, s/he has, we are, you are, they have fallen / worked / done a cake.'

However, some varieties with person-driven auxiliiation exhibit some variation on this classic split (see § 6, § 7 for SL varieties). For instance, many of them present person extension of BE to 3rd persons singular and plural (e.g. San Benedetto del Tronto, Viticuso: Manzini, Savoia 2005, vol. II, pp. 682-683; Ledgeway 2019, p. 37), or loss of HAVE in the 3rd singular (e.g. Campli: Manzini, Savoia 2005, vol. II, p. 320; Ledgeway 2019, p. 37), or are subject to temporal and modal restrictions (cf. § 6.3, § 7.1; see Ledgeway 2019 for details).

Auxiliary selection in Romance may also show sensitivity to tense (especially, but not exclusively) in person-based auxiliiation systems (cf. Loporcaro 2017, p. 813). Campanian (Ledgeway 2003, 2009; Cennamo 2010), Apulian (Torcolacci 2015; Loporcaro 2017), and Abruzzese (Giammarco 1973; D'Alessandro, Roberts 2010) varieties generalise one of the two auxiliaries depending on the tense but regardless of verbal class. For instance, one can find the generalisation of BE in non-present perfect contexts (i.e. pluperfect, counterfactuals included), e.g. in some Campanian dialects (e.g. Procidano, San Leuciano: Iannace 1983; Ledgeway 2003, 2009), Apulo-Barese varieties (e.g. Martinese: Manzini, Savoia 2005, vol. II, p. 793; (3)), and SL varieties (e.g. Acquafondatese: Cocchi 199, p. 124). However, the generalisation of HAVE (typically in upper-southern varieties) and BE (typically in central varieties) to all predicates in non-present perfect contexts can be found in varieties which have person-driven auxiliiation, especially (but not only) in Apulo-Barese (Gravinese: Manzini, Savoia 2005, vol. III, p. 26; (4)).

(3) *Martinese* (Manzini, Savoia 2005, vol. II, p. 793)

erə / irə / erə / ermə / irvə / ierne lavetə.
 I.was you.were s/he.was we.were you.were they.were washed.M.SG
 'I was, you were, s/he was, we were, you were, they were washed.'

(4) *Gravinese* (Manzini, Savoia 2005, vol. II, p. 26)

avajə / aviəvə / avajə / avaimə / aviəvə / avainə vənəutə / dərməutə /
 I.had you.had s/he.had we.had you.had they.had come.M.SG slept.M.SG
 lavətə.
 washed.M.SG
 'I had, you had, s/he had, we had, you had, they had come / slept / washed.'

Mood may also play a role in auxiliary selection in Romance. In particular, some varieties show a mood restriction in person-driven split auxiliary systems; namely there is a contrast between realis contexts (i.e. present/pluperfect; indicative mood) and irrealis contexts (i.e. counterfactual).

For the purposes of this paper, we put aside the diachronic perspective, for which the marker of active syntax (i.e. HAVE) initially permeated stative syntax via irrealis contexts, and then spread to other realis contexts, e.g. in early Neapolitan (Formentin 2001; Ledgeway 2003, 2009), early Sicilian (La Fauci, Rosen 1992; Ledgeway 2003), early Abruzzese (Ledgeway 2003; cf. Giammarco 1973, pp. 162ff.), and early Spanish (Stolova 2006). Synchronically, auxiliary BE is found in varieties with generalised HAVE for irrealis, e.g. optative contexts (e.g. Altamurano: (5); Loporcaro 2017, p. 813) and counterfactuals (e.g. Sant'Andrese, Latin American Spanish and southern Spanish varieties: Ledgeway 2000, 2012). Moreover, certain person-driven split systems generalise BE (e.g. San Benedetto, Pontecorvino: Cocchi 1995, p. 14; Ledgeway 2019, p. 28) or HAVE in counterfactuals (e.g. eastern Abruzzese: Giammarco 1973; Ledgeway 2019, p. 31). However, in Romanian, auxiliary choice is entirely dictated by the realis (i.e. HAVE) *vs* irrealis (i.e. BE) mood distinction (Dobrovie-Sorin 1994, ch. 1; Avram, Hill 2007; Dragomirescu, Nicolae 2013; Ledgeway 2013, pp. 6-7): while finite verbal forms can only select HAVE (6), non-finite forms can only select BE (7).

(5) *Altamurano* (Loporcaro 2017, p. 813)

Fwessə jətə / ʊ fwessə dittə la sour.
 be.IMP.SBJV.3SG gone.M.SG CL be.IMP.SBJV.3SG said.M.SG the sister
 'S/He would have gone / S/He would have said it to the sister.'

(6) *Romanian*

Am / Ai / A / Am / Ați / Au mâncat / plecat.
 I.have you.have s/he.has we.have you.have they.have eaten.M.SG left.M.SG
 'I have, you have, s/he has, we have, you have, they have eaten / left.'

(7) *Romanian*

- a. Vor / Ar fi mâncat / plecat.
they.will they.would be.INF eaten.M.SG left.M.SG
'They will / would have eaten / left.'
- b. Nu cred să fi mâncat / plecat.
not they.believe that be.SBJV eaten.M.SG left.M.SG
'I don't believe that we would have eaten / left.'
- c. Înainte de a fi mâncat / plecat, citeam ziarul.
before of to be.INF eaten.M.SG left.M.SG I.read newspaper.the
'Before we eat/leave, I read the newspaper.'

The last auxiliation paradigm involves generalisation of either HAVE or BE to all contexts. Within Romance, the generalisation of HAVE into stative syntax across all temporal, aspectual, and mood dimensions (with the exception of passives) is found in most Ibero-Romance varieties, in many upper and extreme-southern Italian varieties (e.g. Mottolese; (8)), in advanced varieties of Neapolitan (Ledgeway 2009, ch. 15), Sicilian (La Fauci 1992), and in some extinct varieties of Dalmatian (e.g. Vegliot: Ive 1886; Bartoli 1906; Doria 1989). However, certain Romance varieties generalise BE at the expense of HAVE. For instance, Terracinese (Tuttle 1986, p. 267) and Bovesè ((9); Squillaci 2017, pp. 56-74; Schifano *et al.* 2016) both employ BE as the only auxiliary in present perfect and pluperfect contexts respectively.

(8) *Mottolese* (Imperio 1993, p. 201)

agghjə / a / à / amə / atə / anə zappəta / vənùta.
I.have you.have s/he.has we.have you.have they.have hied.M.SG come.M.SG
'I have, you have, s/he has, we have, you have, they have hied / come.'

(9) *Bovesè* (Squillaci 2017, pp. 55-56)

eru / eri / era / eramu / eravu / eranu cucinatu / leggiutu.
I.was you.were s/he.was we.were you.were they.were cooked.M.SG read.M.SG
'I was, you were, s/he was, we were, you were, they were cooked / read.'

In Romance, some of these patterns, namely splits driven by argument structure, person, mood, and tense as well as auxiliary generalisation, can co-occur within the same variety. For instance, in argument-structure-driven and person-driven split auxiliary systems, mood and tense can play a role as well. When present, mood and temporal restrictions on auxiliation are subordinate to those of person and argument structure. However, as I show

in § 3, the selection of the auxiliary in SL can be influenced by argument structure, person, mood, and tense as well, and these can further be combined with additional restrictions based on tense, mood, number, gender, and discourse *vs* non-discourse participants.

As shown above, the wide range of variation in auxiliary selection found in Romance (for a detailed account, see Ledgeway 2019) is also attested within Italo-Romance (Rohlf's 1969; Giammarco 1973; Tuttle 1986; see also Loporcaro 1995, 2001, 2007, 2010; Lorenzetti 1995; Kayne 1993; Cocchi 1995; Bentley, Eythórsson 2004, 2001; Legendre 2010, *i.a.*). However, southern Italo-Romance, in particular, exhibits an especially high degree of variation in this domain. Many systems combine: for instance, person-driven and argument-structure-driven split auxiliary systems. Data from Manzini, Savoia (2005, vols. II, III; see Lorenzetti 1995, ch. 3 for Castelli Romani's varieties) highlight, for example, how the choice of auxiliary HAVE in the 3rd person depends on the argument structure of the verb (i.e. transitive/unergative *vs* unaccusative), while the 1st and 2nd always appear with BE. This pattern is attested in e.g. Ortezzanese (10), Collemacinese, Amandolano, Ortezzanese, Tufillese, Torricellese, and Borgorosesese (Manzini, Savoia 2005, vol. II, p. 728), where with unaccusatives we find BE in every person (10a) and in unergatives we find BE in the 1st and 2nd persons, but HAVE in the 3rd person (10b).

(10) *Ortezzanese* (Manzini, Savoia 2005, vol. II, p. 728)

a. Unaccusatives

sò / sì / ɛ / semo / sete / ɛ vinut-u / -a / -i / -e.
 I.am you.are s/he.is we.are you.are they.are come-M.SG F.SG M.PL M.PL
 'I am, you are, s/he is, we are, you are, they are come.'

b. Unergatives

sò / sì / a / semo / sete / a durmito.
 I.am you.are s/he.has we.are you.are they.have slept.M.SG
 'I am, you are, s/he has, we are, you are, they have slept.'

3. *Auxiliary systems in Southern Lazio*

All the patterns found in Romance auxiliary selection can be found in SL. In what follows, I show that the high degree of microvariation present in SL reflects different possible combinations of split auxiliary systems not found elsewhere in Romance and Italo-Romance. In fact, certain SL varieties even reveal new patterns of auxiliation (e.g. gender-driven). SL data are essential to establish more possible combinations of these systems, thereby

offering a more complete picture of the variation in auxiliary selection, both in Italo-Romance and in Romance more broadly.

I divide SL varieties into the following kinds of split auxiliary ‘systems’: pure argument-driven systems (§ 4), partial argument-driven systems (§ 5), hybrid argument-driven systems (§ 6), person-driven systems (§ 7), and tense-and-mood-driven systems (§ 8). In Table 1, I organise the twenty-one varieties⁶ investigated from SL on the basis of the auxiliary system type displayed⁷. I consider the combination of different parameters of variation influencing the selection of the auxiliaries as creating ‘systems’ of auxiliiation; i.e. where all the parameters involved in a specific system act together in a given language and determine the selection and, consequently, the combinations of the two auxiliaries HAVE and BE.

Auxiliary system type	Varieties
Pure argument-driven	Sant’Eliano
Partial argument-driven	Concano, Fauciano, Castelfortese, Carinolese
Hybrid argument-driven	Campomelese, Sant’Apollinare, Lenolano, Arcese, Sperlongano, Picano, Patriciano, Cassinate, Early Ferentinese
Person-driven	Campolese, Alvitano, Piciniscano, Modern Ferentinese, Cepranese, San Donatese
Tense and mood-driven	Arpinate

Tab. 1 - Auxiliary system types in SL.

⁶ The SL varieties investigated in this paper are: Sant’Eliano (spoken in Sant’Elia Fiumerapido, province of Frosinone), Concano (spoken in Conca della Campania, province of Caserta), Fauciano (spoken in Falciano del Massico, province of Caserta), Castelfortese (spoken in Castelforte, province of Latina), Carinolese (spoken in Carinola, province of of Caserta), Campomelese (spoken in Campodimele, province of Latina), Sant’Apollinarese (spoken in Sant’Apollinare, province of Latina), Lenolano (spoken in Lenola, province of Frosinone), Arcese (spoken in Arce, province of Frosinone), Sperlongano (spoken in Sperlonga, province of Latina), Picano (spoken in Pico, province of Frosinone), Patriciano (spoken in Patrica, province of Frosinone), Cassinate (spoken in Cassino, province of Frosinone), Early/Modern Ferentinese (spoken in Ferentino, province of Frosinone), Campolese (spoken in Campoli Appennino, province of Frosinone), Alvitano (spoken in Alvito, province of Frosinone), Piciniscano (spoken in Picinisco, province of Frosinone), Cepranese (spoken in Ceprano, province of Frosinone), San Donatese (spoken in San Donato Val di Comino, province of Frosinone), and Arpinate (spoken in Arpino, province of Frosinone). I also included in the survey northern Campanian varieties such as Fauciano, Concano, and Carinolese, which are spoken in Northern Campania. This is because the varieties spoken in Southern Lazio and in northern Campania (province of Caserta) present similarities. In fact, these were all part of the same former administrative area called *Terra di Lavoro* until 1927.

⁷ However, as we will see in this section (§ 3), the situation is much more complicated than this. Table 1 is only a tentative typology of auxiliary systems. Cf. the microtypology for SL auxiliiation in § 9.

3.1. *A short note on morphological forms of HAVE and BE in SL*

Due to syncretism in some Italo-Romance varieties, different morphological forms can be ambiguous, bearing morphophonological shapes which neutralise the semantico-syntactic contrast between the two auxiliaries (cf. Manzini, Savoia 2005; Cennamo 2010; D'Alessandro, Ledgeway 2010b; Loporcaro 2017, pp. 813, *i.a.*). In some SL varieties as well, the imperfect indicative paradigm exhibits morphophonological identity between HAVE and BE in the 1st and 2nd singular persons⁸. For example, in the Arpinate (§ 8) imperfect indicative paradigm, the 1st person singular is *éva* 'I.had', from *éra* < Lat. ERA(M) or (*av*)*éva* < Lat. (H)ABEBA(M), and the 3rd person singular is *éva* 's/he.had', from *éra* < Lat. ERA(T) or (*av*)*éva* < Lat. (H)ABEBA(T). Consequently, the morphological form *éva* is now ambiguous: HAVE cannot be distinguished from BE.

I claim that these varieties had a true alternation between HAVE and BE in the 1st and 3rd person singular at an earlier stage, since they show opposition between HAVE and BE in different paradigms (e.g. present indicative, conditional, and subjunctive). However, at some point *éra* and *éva* in the imperfect indicative in both the 1st and the 2nd person singular were confused by speakers, and hence merged. Hence, *éva* could today be considered 'I.had_{was}', 'I.was_{had}', 's/he.had_{was}', 's/he.was_{had}'. In short, I treat them as the imperfect indicative of the verb HAVE and BE at the same time, a phenomenon I shall now refer to as HAVE/BE syncretism. HAVE/BE syncretism has been widely discussed in the literature. Rohlf's (1969, § 674, fn. 1) links the form *érə* to a development of the pluperfect indicative from the Latin (HABU)ERA(M), which came to function as the imperfect HABEBAM. Hence, he considers the form *érə* originally from HAVE. Along the same lines, for Neapolitan Ledgeway (2009, pp. 394-395) proposes that *éva* 'was' comes from HAVE (cf. also Cennamo 2010). Manzini,

⁸ Specifically, in the partial argument-driven varieties (§ 5) Concanso (*éva* 'have/be.IMP.1SG', *éva* 'have/be.IMP.3SG'), Fauciano (*éva* 'have/be.IMP.1SG', *éva* 'have/be.IMP.3SG'), and Carinolese (*évu* 'have/be.IMP.1SG', *éva* 'have/be.IMP.3SG'), the hybrid argument-driven varieties (§ 6) Sperlongano (*éva* 'have/be.IMP.1SG', *éva* 'have/be.IMP.3SG'), Patricano (*jéva* 'have/be.IMP.1SG', *jéva* 'have/be.IMP.3SG'), Picano (*éva* 'have/be.IMP.1SG', *éva* 'have/be.IMP.3SG'), Early Ferentinese (*éva* 'have/be.IMP.1SG', *éva* 'have/be.IMP.3SG'), and Lenolano (*évo* 'have/be.IMP.1SG', *éva* 'have/be.IMP.3SG'), and the tense-and-mood-driven variety (§ 8) Arpinate (*éva* 'have/be.IMP.1SG', *éva* 'have/be.IMP.3SG').

Savoia (2005) propose that *èva* is BE inasmuch as it surfaces in copular constructions. Concerning Manzini, Savoia's (2005) hypothesis, I tested the behaviour of the imperfect indicative of HAVE and BE in reflexives and copular structures in SL varieties. Speakers cannot distinguish BE from HAVE anymore. Along the same lines, Andriani (2017, pp. 162-165) proposes that *érə* 'be.IMP.1/2SG' and *évə* 'have.IMP.1/2SG' have converged into the syncretic form *évə* 'HAVE/BE.1/2SG' to express both auxiliaries HAVE and BE in Barese.

Since in SL varieties the pluperfect indicative is formed with the imperfect indicative paradigm of HAVE and BE plus the past participle, HAVE/BE syncretism is relevant to this discussion. In fact, for all SL varieties which exhibit HAVE/BE syncretism, auxiliary HAVE in pluperfect contexts always seems to be generalised because the auxiliary BE is absent in the rest of the pluperfect paradigm.

HAVE/BE syncretism gives rise to opacity. In the relevant SL varieties investigated, the generalisation of the auxiliary HAVE is found, i.e. HAVE cannot be distinguished from BE in the 1st and 3rd persons singular of the pluperfect. I argue that speakers consider such forms to be superficially HAVE, analogous to the generalisation of HAVE in all persons of the pluperfect paradigm. In fact, all these varieties are (partial and hybrid) argument-driven systems or tense-and-mood-driven systems, so their grammars have an alternation between the two auxiliaries HAVE and BE in the present perfect only.

4. *Pure argument-driven systems*

The SL variety Sant'Eliano displays what I call a pure argument-driven auxiliary system. This variety shows HAVE with transitive/unergatives (e.g. *acconcià* 'fix'; (11a)) and BE with unaccusatives (e.g. *i* 'go'; (11b)) in the present perfect⁹, in the pluperfect ((12a) *vs* (12b)), and in the counterfactual ((13a) *vs* (13b)). Specifically, Sant'Eliano transitive/unergative predicates (e.g. *acconcià* 'fix') in the present perfect paradigm select HAVE for all persons (11a), and unaccusative predicates (e.g. *i* 'go') select BE for all persons

⁹ See also the variety of Rocca di Papa (Castelli Romani), which shows a similar distribution of the auxiliaries HAVE and BE (Lorenzetti 1995, ch. 3).

(11b). Similarly, in pluperfect paradigms, transitive/unergative predicates (e.g. *acconcià* ‘fix’) select HAVE (12a) and unaccusative predicates (e.g. *i* ‘go’) select BE (12b)¹⁰.

(11) *Sant’Eliano* (present perfect)

a. Transitive/unergatives

i àggià / tu ài / issə/essa a / nujə àmà / vujə étə / issi/essə àu acconciatə
 I have you have he/she has we have you have they.M/F have fixed.PTP
 (la macchina).
 the.F.SG car.F.SG
 ‘I have, you have, s/he has, we have, you have, they have fixed (the car).’

b. Unaccusatives

i só / tu si / issə/essa è / nujə sémə / vujə sétə / issi/essə só itə.
 I am you are he/she is we are you are they.M/F are gone.PTP
 ‘I am, you are, s/he is, we are, you are, they are gone.’

(12) *Sant’Eliano* (pluperfect)

a. Transitive/unergatives

i avévə / tu avivə / issə/essa avàmə / nujə avàtə / vujə àvanə / issi/essə àu
 I had you had he/she had we had you had they.M/F had
 acconciatə (la macchina).
 fixed.PTP the.F.SG car.F.SG
 ‘I had, you had, s/he had, we had, you had, they had fixed (the car).’

b. Unaccusatives

i èro / tu èri / issə/essa èra / nujə eravàmə / vujə eravàtə / issi/essə èranə
 I was you were he/she was we were you were they.M/F were
 itə.
 gone.PTP
 ‘I was, you were, s/he was, we were, you were, they were gone.’

In counterfactual contexts (13), as expected, BE and HAVE are selected on basis of the argument structure of the predicate (i.e. transitive/unergatives = HAVE *vs* unaccusatives = BE). As shown in (13), transitive/unergative predicates (e.g. *magnà* ‘eat’) in counterfactual contexts select HAVE (13a) and unaccusative predicates (i.e. *i* ‘go’) select BE (13b).

¹⁰ Concerning past participle agreement (which is not represented in the examples from SL varieties), see Colasanti (2018b, p. 130) for details.

(13) *Sant'Eliano* (counterfactual)

a. Transitive/unergatives

1SG	i avéssə I have.SBJV.1SG	magnàtə eaten.PTP	nə mə fəssə not to.me be.COND.1SG	sentùtə malə felt.PTP bad	H
2SG	tu avéssə you have.SBJV.2SG	magnàtə eaten.PTP	nə tə fəssə not to.you be.COND.2SG	sentùtə malə felt.PTP bad	H
3SG	sə if issə/essa avéssə he/she have.SBJV.3SG	magnàtə eaten.PTP	nə sə fəssə not to.him/her be.COND.3SG	sentùtə malə felt.PTP bad	H
1PL	nujə avéssəmə we have.SBJV.1PL	magnàtə eaten.PTP	nə cə fəssə not to.us be.COND.1PL	sentùtə malə felt.PTP bad	H
2PL	vujə avéssəvə you have.SBJV.2PL	magnàtə eaten.PTP	nə və fəssə not to.you be.COND.2PL	sentùtə malə felt.PTP bad	H
3PL	issi/essa avéssərə they.M/F have.SBJV.3PL	magnàtə eaten.PTP	nə sə fəssə not to.them be.COND.3PL	sentùtə malə felt.PTP bad	H

b. Unaccusatives

1SG	i fəssə I be.SBJV.1SG	itə gone.PTP	'Ntonio non sə fəssə Anthony not REFL be.COND.3SG	'ncazzatə got.mad.PTP	B
2SG	tu fəssə you be.SBJV.2SG	itə gone.PTP	'Ntonio non sə fəssə Anthony not REFL be.COND.3SG	'ncazzatə got.mad.PTP	B
3SG	sə if issə/essa fəssə he/she be.SBJV.3SG	itə gone.PTP	'Ntonio non sə fəssə Anthony not REFL be.COND.3SG	'ncazzatə got.mad.PTP	B
1PL	nujə fəssəmə we be.SBJV.1PL	itə gone.PTP	'Ntonio non sə fəssə Anthony not REFL be.COND.3SG	'ncazzatə got.mad.PTP	B
2PL	vujə fəssəvə you be.SBJV.2PL	itə gone.PTP	'Ntonio non sə fəssə Anthony not REFL be.COND.3SG	'ncazzatə got.mad.PTP	B
3PL	issi/essa fəssərə they.M/F be.SBJV.3PL	itə gone.PTP	'Ntonio non sə fəssə Anthony not REFL be.COND.3SG	'ncazzatə got.mad.PTP	B

Henceforth, I consider the present perfect and pluperfect paradigms as ‘realis contexts’ and counterfactuals as ‘irrealis contexts’. Hence, I observe that there are no tense (viz. present perfect *vs* pluperfect), mood (viz. indicative *vs* counterfactual), or modality restrictions (viz. [realis] *vs* [irrealis]) in the selection of the auxiliary in pure argument-driven auxiliary systems¹¹.

I will conclude by observing that in *Sant'Eliano* the selection of the auxiliary is always and only related to the argument structure of the predicate, as in many other conservative Romance varieties such as standard Italian and French (Table 2). For the sake of the forthcoming microtypology for

¹¹ I take the very same category Aux to grammaticalise features such as tense, mood/modality, and person of the lexical verb which they accompany in perfective contexts. However, the selection between of HAVE and BE in pure argument-driven systems does not show tense/mood restrictions.

SL auxiliary systems in § 9, I refer to pure argument-driven auxiliary systems such as Sant’Eliano as TYPE 1, as illustrated in Table 2:

SL variety	Pure argument-driven systems					
	realis				irrealis	
	present perfect		pluperfect		counterfactual	
	transitives unergatives	unaccusatives	transitives unergatives	unaccusatives	transitives unergatives	unaccusatives
Sant’Eliano	H	B	H	B	H	B

Tab. 2 - Pure argument-driven systems (TYPE 1).

5. *Partial argument-driven systems*

The SL varieties of Carinolese, Concanso, Fauciano, and Castelfortese have partial argument-driven auxiliary systems. Specifically, the argument structure of the predicate in these varieties determines the choice between the two auxiliaries HAVE and BE only in the present perfect (i.e. realis contexts; cf. Table 3). However, these varieties exhibit mood, modality, and tense restrictions (i.e. past *vs* present, realis *vs* irrealis, indicative *vs* counterfactual), which make them part of a distinct auxiliary system type with respect to the pure argument-driven systems described in § 4. As exemplified by Carinolese (14), transitive/unergative predicates (e.g. *vénnə* ‘sell’) select HAVE in all persons in the present perfect paradigm (14a). However, unaccusatives (e.g. *ji* ‘go’) select BE in all persons in the present perfect paradigm (14b):

(14) *Carinolese* (present perfect)

a. Transitive/unergatives

i àggiu / tu ài / issə/essa a / nujo àmmu / vujə àtə / issi/essə ànnu vennùtu
 I have you have he/she has we have you have they.M/F have sold.PTP
 (la macchina).
 the.F.SG car.F.SG
 ‘I have, you have, s/he has, we have, you have, they have sold (the car).’

b. Unaccusatives

i su / tu sì / issə/essa è / nujo sémmu / vujə sétə / issi/essə su/sóngu jutə.
 I am you are he/she is we are you are they.M/F are gone.PTP
 ‘I am, you are, s/he is, we are, you are, they are gone.’

Partial argument-driven systems		
SL variety	present perfect	
	transitives unergatives	unaccusatives
Concano	H	B
Fauciano	H	B
Carinolese	H	B
Castelfortese	H	B

Tab. 3 - Present perfect paradigm in partial argument-driven systems (TYPE 2).

5.1. *Tense, mood, and modality restrictions*

Auxiliary selection in Romance may also be sensitive to tense and mood in argument-driven systems (see Ledgeway 2019 for a detailed account). In SL partial argument-driven auxiliary systems, tense, mood, and modality all influence the selection of the auxiliary (see Table 4).

Starting from tense restrictions, Carinolese, Concano, and Fauciano exhibit partial argument-driven auxiliary systems, as we can see from the split in the present perfect (i.e. HAVE with transitives/unergatives *vs* BE with unaccusatives; cf. Table 4). However, in the pluperfect, partial argument-driven varieties generalise one auxiliary to the detriment of the other. Specifically, Carinolese, Concano, and Fauciano generalise HAVE and Castelfortese generalises BE with both transitive/unergative and unaccusative verbs¹². The argument split observed in the present perfect is not present in the pluperfect. Hence, in these varieties, auxiliary selection is subject to temporal restrictions if we compare present perfect *vs* pluperfect contexts. As exemplified by Carinolese (15), both transitive/unergatives (e.g. *puttà* ‘drive’) and unaccusatives (e.g. *ji* ‘go’) select HAVE in the pluperfect.

¹² Varieties with ‘H(B)’ have the HAVE/BE syncretism form in the 1st and 3rd person of the pluperfect paradigm. I consider these varieties to have a superficial morphological generalisation of the auxiliary HAVE in all persons. See § 3.1 for details.

(15) *Carinolese* (pluperfect; transitives/unergatives/unaccusatives)

i *évu* / tu *ìvi* / issa/essa *éva* / nuja *ému* / vujə *étə* / issi/essa *évanə* purtatu
 I had_{was} you had he/she had_{was} we had you had they.M/F had driven.PTP
 (la mächina) / jutə.
 the.F.SG car.F.SG gone.PTP
 'I had, you had, s/he had, we had, you had, they had driven (the car) / gone.'

On the other hand, Castelfortese (Table 4) generalises BE in the pluperfect with both transitive/unergatives (e.g. *purtà* 'drive') and unaccusatives (e.g. *i* 'go'), as we can see in (16):

(16) *Castelfortese* (pluperfect; transitives/unergatives/unaccusatives)

i *èra* / tu *èrə* / issa/essa *èra* / nuja *èramə* / vujə *èratə* / issi/essa *èranə* purtata
 I was you were he/she was we were you were they.M/F were driven.PTP
 (la mächina) / jutə.
 the.F.SG car.F.SG gone.PTP
 'I was, you were, s/he were, we were, you were, they were driven (the car) / gone.'

SL variety	Partial argument-driven systems	
	pluperfect	
	transitives unergatives	unaccusatives
Concano	H(B) ¹³	H(B)
Fauciano	H(B)	H(B)
Carinolese	H(B)	H(B)
Castelfortese	B	B

Tab. 4 - Pluperfect paradigm in partial argument-driven systems (TYPE 2).

Concerning mood restrictions, Carinolese and Castelfortese generalise the auxiliary HAVE (17) and BE (18) respectively in counterfactual contexts with both transitive/unergative (e.g. *magnà/pranzà* 'eat') and unaccusatives (e.g. *ji/i* 'go'). On the other hand, Concano and Fauciano maintain argument-driven auxiliary selection (viz. HAVE with transitives/unergatives *vs* BE with unaccusatives) in counterfactual contexts as well. As exemplified by Concano in (19), transitive/unergative predicates (e.g. *magnà* 'eat') select HAVE (19a) and unaccusatives (e.g. *ji* 'go') select BE (19b).

¹³ See in fn. 12.

(17) *Carinolese* (counterfactual; transitives/unergatives/unaccusatives)

1SG	i avéssə I have.SBJV.1SG	magnàtə/jutə eaten/gone.PTP	nə mə fössə not to.me be.COND.1SG felt.PTP bad	fattu ramàggu H
2SG	tu avéssə you have.SBJV.2SG	magnàtə/jutə eaten/gone.PTP	nə tə fössə not to.you be.COND.2SG felt.PTP bad	fattu ramàggu H
3SG	sə if issə/essa avéssə he/she have.SBJV.3SG	magnàtə/jutə eaten/gone.PTP	nə sə fössə not to.him/her be.COND.3SG felt.PTP bad	fattu ramàggu H
1PL	nujə avéssəmə we have.SBJV.1PL	magnàtə/jutə eaten/gone.PTP	nə cə fössəmə not to.us be.COND.1PL felt.PTP bad	fattu ramàggu H
2PL	vujə avéssəvə you have.SBJV.2PL	magnàtə/jutə eaten/gone.PTP	nə və fössəvə not to.you be.COND.2PL felt.PTP bad	fattu ramàggu H
3PL	issi/essa avéssərə they have.SBJV.3PL	magnàtə/jutə eaten/gone.PTP	nə sə fössərə not to.them be.COND.3PL felt.PTP bad	fattu ramàggu H

(18) *Castelfortese* (counterfactual; transitives/unergatives/unaccusatives)

1SG	i füssə I be.SBJV.1SG	pranzàtə/itə eaten/gone.PTP	nə mə füssə/saria not to.me be.COND.1SG felt.PTP bad	sentitə malamentə B
2SG	tu füssə you be.SBJV.2SG	pranzàtə/itə eaten/gone.PTP	nə tə füssə/saria not to.you be.COND.2SG felt.PTP bad	sentitə malamentə B
3SG	sə if issə/essa füssə he/she be.SBJV.3SG	pranzàtə/itə eaten/gone.PTP	nə sə füssə/saria not to.him/her be.COND.3SG felt.PTP bad	sentitə malamentə B
1PL	nujə füssəmə we be.SBJV.1PL	pranzàtə/itə eaten/gone.PTP	nə cə füssəmə not to.us be.COND.1PL felt.PTP bad	sentitə malamentə B
2PL	vujə füssəvə you be.SBJV.2PL	pranzàtə/itə eaten/gone.PTP	nə və füssəvə not to.you be.COND.2PL felt.PTP bad	sentitə malamentə B
3PL	issi/essa füssərə they be.SBJV.3PL	pranzàtə/itə eaten/gone.PTP	nə sə füssərə not to.them be.COND.3PL felt.PTP bad	sentitə malamentə B

(19) *Concano* (counterfactual)

a. Transitives/Unergatives

1SG	i avéssə I have.SBJV.1SG	magnàtə eaten.PTP	nə mə avéssə not to.me be.COND.1SG felt.PTP bad	sentitə malə H
2SG	tu avéssə you have.SBJV.2SG	magnàtə eaten.PTP	nə tə avéssə not to.you be.COND.2SG felt.PTP bad	sentitə malə H
3SG	sə if issə/essa avéssə he/she have.SBJV.3SG	magnàtə eaten.PTP	nə sə avéssə not to.him/her be.COND.3SG felt.PTP bad	sentitə malə H
1PL	nujə avéssəmə we have.SBJV.1PL	magnàtə eaten.PTP	nə cə avéssəmə not to.us be.COND.1PL felt.PTP bad	sentitə malə H
2PL	vujə avéssəvə you have.SBJV.2PL	magnàtə eaten.PTP	nə və avéssəvə not to.you be.COND.2PL felt.PTP bad	sentitə malə H
3PL	issi/essa avéssərə they have.SBJV.3PL	magnàtə eaten.PTP	nə sə avéssərə not to.them be.COND.3PL felt.PTP bad	sentitə malə H

b. Unaccusatives

1SG	i füssə I be.SBJV.1SG	itə gone.PTP	'Ntonio non zə füssə Anthony not REFL be.COND.3SG got.mad.PTP	'ncazzatə B
2SG	tu füssə you be.SBJV.2SG	itə gone.PTP	'Ntonio non zə füssə Anthony not REFL be.COND.3SG got.mad.PTP	'ncazzatə B
3SG	sə if issə/essa füssə he/she be.SBJV.3SG	itə gone.PTP	'Ntonio non zə füssə Anthony not REFL be.COND.3SG got.mad.PTP	'ncazzatə B
1PL	nujə füssəmə we be.SBJV.1PL	itə gone.PTP	'Ntonio non zə füssə Anthony not REFL be.COND.3SG got.mad.PTP	'ncazzatə B
2PL	vujə füssəvə you be.SBJV.2PL	itə gone.PTP	'Ntonio non zə füssə Anthony not REFL be.COND.3SG got.mad.PTP	'ncazzatə B
3PL	issi/essa füssərə they be.SBJV.3PL	itə gone.PTP	'Ntonio non zə füssə Anthony not REFL be.COND.3SG got.mad.PTP	'ncazzatə B

To summarise, partial argument-driven systems in SL generally seem to be sensitive to argument structure, tense, mood, and modality. In fact, all these varieties behave the same in realis present perfect contexts, where we see a traditional split between HAVE selected by transitive/unergatives and BE selected by unaccusatives. In all these varieties tense is marked with a different auxiliary, since all varieties feature an argument-driven auxiliary system in the present perfect and the generalisation of HAVE or BE in realis pluperfect contexts. Hence, they all show temporal restrictions (Table 5).

As for mood restrictions, Concano and Fauciano generalise the auxiliary HAVE in the pluperfect but display an argument-driven auxiliary system in the counterfactual (viz. transitives/unergatives = HAVE *vs* unaccusatives = BE). At the same time, Carinolese and Castelfortese generalise HAVE or BE in both the pluperfect and the counterfactual paradigms (Table 5). Specifically, Concano and Fauciano exhibit a [realis_{past}] *vs* [irrealis] mood restriction and hence have the same present perfect and counterfactual paradigms, but a different one in the pluperfect. On the other hand, Carinolese and Castelfortese exhibit a [realis_{present}] *vs* [irrealis] mood restriction, and hence the same pluperfect and counterfactual paradigms, with a different paradigm in the present perfect.

In order to build a microtypology for SL auxiliary systems based on modality marking in § 9, I refer to partial argument-driven SL varieties as TYPE 2, and I divide them into TYPE 2A (i.e. Concano and Fauciano) and TYPE 2B (i.e. Carinolese and Castelfortese).

Partial argument-driven systems							
SL variety	realis				irrealis		Aux System Type
	present perfect		pluperfect		counterfactual		
	transitives unergatives	unaccusatives	transitives unergatives	unaccusatives	transitives unergatives	unaccusatives	
Concano	H	B	H(B)	H(B)	H	B	TYPE 2A
Fauciano	H	B	H(B)	H(B)	H	B	
Carinolese	H	B	H(B)	H(B)	H	H	TYPE 2B
Castelfortese ¹⁴	H	B	B	B	B	B	

Tab. 5 - Partial argument-driven systems (TYPE 2).

¹⁴ The generalisation of BE in the transitive/unergative/unaccusative pluperfect and counterfactual paradigms is also found in the varieties of Lariano, Albano, Castelgandolfo, Ariccia, and Marino (Castelli Romani) investigated by Lorenzetti (1995, ch. 3), and in the varieties of Ortezzano, Amandola, Campi, S. Vittore, Vastrogirardi, Roccasicura, Pontecorvo, Sonnino, Castelpetroso, Gallo, Monteroduni, Sassinoro, and Castelvechio Subequo investigated by Manzini, Savoia (2005, vol. II, p. 729).

6. *Hybrid argument-driven systems*

A slightly more complex situation can be found in Campomelese, Sant’Apollinarese, Lenolano, Arcese, Sperlongano, Picano, Patricano, Cassinate, and Early Ferentinese. With respect to partial argument-driven systems, these varieties do not present the classical generalisation of HAVE with transitive/unergative verbs and BE with unaccusative verbs in all the persons of the present perfect paradigm. Specifically, these varieties have a mixed selection of the auxiliaries HAVE and BE. These distinguish the transitive/unergative paradigm from the unaccusative one. However, the transitive/unergative paradigm and the unaccusative paradigm show a mixed selection of HAVE and BE sensitive to four components of variation, namely discourse *vs* non-discourse participant sensitivity, number sensitivity, gender sensitivity, and generalisation of one auxiliary.

For the sake of clarity, I describe auxiliary selection in hybrid argument-driven auxiliary systems in present perfect contexts focusing on transitive/unergative paradigms first (§ 6.1) and on the unaccusative paradigm later (§ 6.2). Since these varieties are sensitive to tense, mood, and modality, I provide several paradigms in § 6.3.

6.1. *Transitive/Unergative present perfect paradigms*

As shown in Table 6, auxiliary selection in transitive/unergative paradigms in hybrid argument-driven systems is sensitive to four patterns: generalisation of one auxiliary, discourse *vs* non-discourse participants, number sensitivity, and gender sensitivity.

Patterns of variation in transitives/unergatives present perfect paradigms			
Discourse/non-discourse participants sensitivity	Number sensitivity	Gender sensitivity	Generalisation of one auxiliary
Arcese	Cassinate		
Sant’Apollinarese	Campomelese	Picano	Patricano
Picano	Sperlongano		Lenolano
Early Ferentinese			

Tab. 6 - Unergative/transitive present perfect paradigms.

Patricano and Lenolano (20) generalise the auxiliary HAVE in all persons of the transitive/unergative paradigm (e.g. *accunzià* ‘fix’). However,

these varieties do not present the generalisation of BE with unaccusatives, as we will see below (§ 6.2).

(20) *Lenolano* (transitives/unergatives)

je àggiu / tu ài / issə/essa a / nujə àmu / ujo átə / issi/essə àru accunciàtə
 I have you have he/she has we have you have they.M/F have fixed.PTP
 (la mächina).
 the.F.SG car.F.SG
 'I have, you have, s/he has, we have, you have, they have fixed (the car).'

Arcese, Sant'Apollinarese, Picano, and Early Ferentinese show a sensitivity to discourse *vs* non-discourse participants (see Benveniste 1971, p. 221) in transitive/unergative paradigms (cf. Table 7). In short, auxiliary selection is sensitive to the grammatical person of the nominative subject, and this constitutes a nominative-accusative system which distinguishes all types of subjects (i.e. A/S_A, S_O) from O. As exemplified by Arcese (21), the transitive/unergative predicate *aggiustà* 'fix' selects BE in the 1st and 2nd person singular and plural and HAVE in the 3rd person singular and plural. However, as we see in (22), the transitive/unergative paradigm (e.g. *accuncià* 'fix') in Picano is sensitive to discourse *vs* non-discourse participants only if the non-discourse participant subject is feminine (e.g. *essa* 'she') in the 3rd person singular in (22)¹⁵:

(21) *Arcese* (transitives/unergatives)

i só / tu si / issə/essa a / nu sémə / vu sètə / issi/essə àu aggiustàtə (la
 I am you are he/she has we are you are they.M/F have fixed.PTP the.F.SG
 mächina).
 car.F.SG
 'I am, you are, s/he has, we is, you are, they have fixed (the car).'

(22) *Picano* (transitives/unergatives)

i só / tu si / issə/essa è/a / nu sémə / vu sètə / issi/essə àvə aggiustàtə (la
 I am you are he/she is/has we are you are they.M/F have fixed.PTP the.F.SG
 mächina).
 car.F.SG
 'I am, you are, he is / she has, we are, you are, they have fixed (the car).'

¹⁵ Note that the gender alternation is also present with full DPs. This excludes the possibility that the alternation might be the result of a phonetic co-articulation process between the final vowel of the pronoun and the initial vowel of the auxiliary forms.

SL Variety	Persons					
	1SG	2SG	3SG	1PL	2PL	3PL
Arcese	B	B	H	B	B	H
Sant'Apollinarese	B	B	H	B	B	H
Picano	B	B	H/B	B	B	H
Early Ferentinese	B	B	H	B	B	H

Tab. 7 - Discourse/non-discourse participant restrictions.

In Picano, the transitive/unergative present perfect paradigm shows that auxiliary selection is sensitive to the gender of the 3rd person singular. As shown in example (22) and Table 8, in the transitive/unergative present perfect paradigm (e.g. *accuncià* 'fix') Picano uses BE with masculine animate subjects (e.g. *issə* 'he') and with feminine animate subjects (e.g. *essa* 'she') in the 3rd person singular. However, in the third person plural, auxiliary HAVE is always selected, regardless of the gender of the animate subject. From the data collected, it further seems that non-animate subjects do not present gender sensitivity in Picano.

SL Variety	MASCULINE						FEMININE					
	1SG	2SG	3SG	1PL	2PL	3PL	1SG	2SG	3SG	1PL	2PL	3PL
Picano	B	B	B	B	B	H	B	B	H	B	B	H

Tab. 8 - Gender restrictions.

Cassinate (23), Sperlongano (24), and Campomelese (25) display number sensitivity (i.e. singular *vs* plural) in present perfect transitive/unergative paradigms (e.g. *vénnə* 'sell', *accuncià* 'fix'). Specifically, all these varieties display the contrast between the selection of the auxiliary HAVE in the 1st singular and BE in the 1st person plural (Table 9). In addition to a contrast between HAVE in the 1st singular and BE in the 1st plural, Campomelese (25) also contrasts the selection of auxiliary HAVE in the 2nd singular with BE in the 2nd plural.

(23) *Cassinate* (transitives/unergatives)

i àggio / tu si / issə/essa a / nujo sémə / vujə sètə / issi/essə àu vennùtə (la
 I have you are he/she has we are you are they.M/F have sold.PTP the.F.SG
 mächina).
 car.F.SG
 'I have, you are, s/he has, we are, you are, they have sold (the car).'

(24) *Sperlongano* (transitives/unergatives)

i àggiə / tu àijə / issə/essa a / nujo sémə / vujo àvə / issi/essə àu vennùtə (la
 I have you have he/she has we are you have they.M/F have sold.PTP the.F.SG
 mächina).
 car.F.SG
 'I have, you have, s/he has, we are, you have, they have sold (the car).'

(25) *Campomelese* (transitives/unergatives)

i àggiə / tu ài / issə/essa a / nujo sémə / vujo sétə / issi/essə ànnə accunciàtə
 I have you have he/she has we are you are they.M/F have fixed.PTP
 (la mächina).
 the.F.SG car.F.SG
 'I have, you have, s/he has, we are, you are, they have fixed (the car).'

SL Variety	Persons					
	1SG	2SG	3SG	1PL	2PL	3PL
Cassinate	H	B	H	B	B	H
Campomelese	H	H	H	B	B	H
Sperlongano	H	H	H	B	H	H

Tab. 9 - Number restrictions.

6.2. *Unaccusative present perfect paradigms*

In hybrid argument-driven systems, auxiliary selection in unaccusative paradigms is sensitive to different patterns of variation, namely discourse *vs* non-discourse participants, number sensitivity, and gender sensitivity (Table 10).

Patterns of variation in unaccusative present perfect paradigms		
Discourse/non-discourse participant sensitivity	Number sensitivity	Gender sensitivity
Campomelese	Cassinate	Lenolano
Patricano	Sperlongano	Cassinate
Picano	Sant'Apollinarese	Arcese
	Early Ferentinese	

Tab. 10 - Unaccusative present perfect paradigms.

Campomelese, Patricano and Picano present discourse *vs* non-discourse participant sensitivity (i.e. 1st/2nd singular and plural *vs* 3rd sin-

gular and plural) in the unaccusative present perfect paradigm (e.g. *i* ‘go’; cf. Table 11). As exemplified by Campomelese (26), auxiliary selection is sensitive to the grammatical person of the nominative subject, hence displaying a nominative-accusative system which distinguishes all types of subjects (i.e. $A/S_A, S_O$) from O. Specifically, unaccusative paradigms present BE in the 1st and 2nd person singular and plural and HAVE in the 3rd person singular and plural:

(26) *Campomelese* (unaccusatives)

i só / tu si / issə/essa a / nuɟə sémə / vuɟə séta / issi/essə ànnə juta.
I am you are he/she has we are you are they.M/F have gone.PTP
‘I am, you are, s/he has, we are, you are, they have gone.’

SL Variety	Persons					
	1SG	2SG	3SG	1PL	2PL	3PL
Campomelese	B	B	H	B	B	H
Patricano	B	B	H	B	B	H
Picano	B	B	H	B	B	H

Tab. 11 - Discourse/non-discourse participant restrictions.

Cassinate, Sperlongano, Sant’Apollinarese, and Early Ferentinese display number sensitivity (i.e. singular *vs* plural) in unaccusative present perfect paradigms. All these varieties select HAVE in the 1st person singular and BE in the 1st person plural ((27), (28), (29); see Table 12). However, Sant’Apollinarese and Cassinate (only with animate feminine subjects; (27)) select auxiliary HAVE in the 3rd person singular and BE in the 3rd person plural ((27), (28)). Moreover, Early Ferentinese presents free alternation between both auxiliaries in the 1st and 3rd person singular (Table 12).

(27) *Cassinate* (unaccusatives)

i àggiə / tu si / issə/essa è/a / nuɟə sémə / vuɟə séta / issi/essə só juta.
I have you are he/she is/has we are you are they.M/F are gone.PTP
‘I have, you are, he is / she has, we are, you are, they are gone.’

(28) *Sant’Apollinarese* (unaccusatives)

i àggiə / tu si / issə/essa a / nuɟə sémə / vuɟə séta / issi/essə só ita.
I have you are he/she has we are you are they.M/F are gone.PTP
‘I have, you are, s/he has, we are, you are, they are gone.’

(29) *Sperlongano* (unaccusatives)

i àggiə / tu si / issə/essa è / nuǝ sémə / vuǝ séta / issi/essə só itə.
 I have you are he/she is we are you are they.M/F are gone.PTP
 ‘I have, you are, s/he is, we are, you are, they are gone.’

SL Variety	Persons					
	1SG	2SG	3SG	1PL	2PL	3PL
Cassinate	H	B	H/B	B	B	B
Sant’Apollinarese	H	B	H	B	B	B
Sperlongano	H	B	B	B	B	B
Early Ferentinense	H/B	B	H/B	B	B	B

Tab. 12 - Number restrictions.

The unaccusative present perfect paradigm in Lenolano, Cassinate, and Arcese shows a sensitivity to gender (Table 13). In particular, in all these varieties the auxiliaries HAVE and BE are selected on the basis of gender (i.e. masculine *vs* feminine) in the 3rd person singular. In Cassinate (27), Arcese (30), and Lenolano the auxiliary selected in unaccusative present perfect paradigms (e.g. *i* ‘go’) is BE in the 3rd person singular with animate masculine subjects (e.g. *issə* ‘he’). However, the auxiliary selected is HAVE in the 3rd person singular with animate feminine subjects (e.g. *essa* ‘she’).

(30) *Arcese* (unaccusatives)

i só / tu si / issə/essa è/a / nu sémə / vu séta / issi/essə só itə.
 I am you are he/she is/has we are you are they.M/F are gone.PTP
 ‘I am, you are, he is / she has, we are, you are, they are gone.’

SL Variety	MASCULINE						FEMININE					
	1SG	2SG	3SG	1PL	2PL	3PL	1SG	2SG	3SG	1PL	2PL	3PL
Lenolano	H	H	B	H	H	H	H	H	H	H	H	H
Cassinate	H	B	B	B	B	B	H	B	H	B	B	H
Arcese	B	B	B	B	B	B	B	B	H	B	B	B

Tab. 13 - Gender restrictions.

To summarise, in Table 14¹⁶ I show that hybrid argument-driven auxiliary systems in SL exhibit several different present perfect paradigms. In all varieties which belong to this auxiliary system type (i.e. TYPE 3), the transitive/unergative present perfect paradigm is different from the unaccusative one. Hence, I consider these varieties hybrid argument-driven auxiliary systems in which argument-structure influences the selection of the auxiliary in the present perfect. Moreover, there are embedded patterns of variation, i.e. discourse *vs* non-discourse participants, gender, and number, which play a secondary role in the selection of the auxiliary in transitive/unergative and unaccusative present perfect paradigms respectively.

SL variety	Hybrid argument-driven systems	
	present perfect	
	transitives unergatives	unaccusatives
Campolese	HHH BBH	BBH BBH
Sant’Apollinarese	BBH BBH	HBH BBB
Lenolano	HHH HHH	HHB~H HHH
Arcese	BBH BBH	BBB~H BBB
Early Ferentinese	BBH BBH	H~BBH~B BBB
Cassinate	HBH BBH	HBB~H BBB~H
Picano	BBH~B BBH	BBH BBH
Patricano	HHH HHH	BBH BBH
Sperlongano	HHH BHH	HBB BBB

Tab. 14 - Present perfect in hybrid argument-driven systems (TYPE 3).

6.3. *Tense, mood, and modality restrictions*

Hybrid argument-driven systems also prove to be sensitive to tense, mood, and modality. Beginning with tense restrictions, Campomelese, Sant’Apollinarese, Arcese, and Cassinate all show generalisation of the auxiliary BE in the pluperfect with both transitives/unergatives and unaccusatives. As shown in the Cassinate example in (31), both the transitive/unergative paradigm (e.g. *guidà* ‘drive’) and the unaccusative paradigm (e.g. *i* ‘go’) feature the auxiliary BE in all grammatical persons:

¹⁶ The ‘~’ symbol in the table means ‘or’.

(31) *Cassinate* (pluperfect; transitives/unergatives/unaccusatives)

i èrə / tu èri / issə/essa èra / nuʝə erauàmə / vuʝə erauàtə / issi/essə èranə guidàtə
 I was you were he/she was we were you were they.M/F were driven.PTP
 (la mächina) / jutə.
 the.F.SG car.F.SG gone.PTP
 'I was, you were, s/he was, we were, you were, they were driven the car / gone.'

On the other hand, Patricano, Lenolano, Early Ferentinese, and Picano generalise the auxiliary HAVE in the pluperfect paradigm in all grammatical persons. As shown in (32), Patricano generalises the auxiliary HAVE in both the transitive/unergative (e.g. *putà* 'drive') and unaccusative (e.g. *i* 'go') paradigms in all grammatical persons:

(32) *Patricano* (pluperfect; transitives/unergatives/unaccusatives)

je jèvə / tu jivə / issə/essa jèvə / nui jimə / uʝə jétə / issi/essə jévanə putàtə
 I had_{was} you had he/she had_{was} we had you had they.M/F had driven.PTP
 (la mächina) / ito.
 the.F.SG car.F.SG gone.PTP
 'I had, you had, s/he was, we had, you had, they had driven the car / gone.'

In the pluperfect, the general tendency in hybrid argument-system auxiliary systems is to generalise either HAVE or BE at the expense of the other auxiliary in both transitive/unergative and unaccusative paradigms (Table 15).

SL variety	Hybrid argument-driven systems	
	pluperfect	
	transitives unergatives	unaccusatives
Campolese	B	B
Sant'Apollinarese	B	B
Lenolano	H(B)	H(B)
Arcese	B	B
Early Ferentinese	H(B)	H(B)
Cassinate	B	B
Picano	H(B)	H(B)
Patricano	H(B)	H(B)
Sperlongano	H(B)	H(B)

Tab. 15 - Pluperfect in hybrid argument-driven systems (TYPE 3).

Turning now to mood restrictions, the SL variety Lenolano (33) generalises the auxiliary HAVE in the transitive/unergative and the unaccusative paradigms in counterfactual contexts. On the other hand, Campomelese, Sant'Apollinarese, Early Ferentinese, and Picano generalise the auxiliary BE in both the counterfactual unergative/transitive and unaccusative paradigms, as exemplified by Picano in (34):

(33) *Lenolano* (counterfactual; transitives/unergatives/unaccusatives)

1SG	je avéssə I have.SBJV.1SG	magnàtə/itə eaten/gone.PTP	nə mə füssə/saria not to.me be.COND.1SG felt.PTP bad	H
2SG	tu avéssə you have.SBJV.2SG	magnàtə/itə eaten/gone.PTP	nə tə füssə/saria not to.you be.COND.2SG felt.PTP bad	H
3SG	sə if issə/essa avéssə he/she have.SBJV.3SG	magnàtə/itə eaten/gone.PTP	nə sə füssə/saria not to.him/her be.COND.3SG felt.PTP bad	H
1PL	nujə avéssəmə we have.SBJV.1PL	magnàtə/itə eaten/gone.PTP	nə cə füssəmə/sarissəmə not to.us be.COND.1PL felt.PTP bad	H
2PL	vujə avéssəvə you have.SBJV.2PL	magnàtə/itə eaten/gone.PTP	nə və füssəvə/sarissəvə not to.you be.COND.2PL felt.PTP bad	H
3PL	issi/essə avéssərə they have.SBJV.3PL	magnàtə/itə eaten/gone.PTP	nə sə füssərə/sarissərə not to.them be.COND.3PL felt.PTP bad	H

(34) *Picano* (counterfactual; transitives/unergatives/unaccusatives)

1SG	i saria I be.SBJV.1SG	magnàtə/itə eaten/gone.PTP	nə mə füssə not to.me be.COND.1SG felt.PTP bad	B
2SG	tu saria you be.SBJV.2SG	magnàtə/itə eaten/gone.PTP	nə tə füssə not to.you be.COND.2SG felt.PTP bad	B
3SG	sə if issə/essa saria he/she be.SBJV.3SG	magnàtə/itə eaten/gone.PTP	nə sə füssə not to.him/her be.COND.3SG felt.PTP bad	B
1PL	nujə sarissəmə we be.SBJV.1PL	magnàtə/itə eaten/gone.PTP	nə cə füssəmə not to.us be.COND.1PL felt.PTP bad	B
2PL	vujə sarissəvə you be.SBJV.2PL	magnàtə/itə eaten/gone.PTP	nə və füssəvə not to.you be.COND.2PL felt.PTP bad	B
3PL	issi/essə sarissərə they be.SBJV.3PL	magnàtə/itə eaten/gone.PTP	nə sə füssərə not to.them be.COND.3PL felt.PTP bad	B

Cassinate, Patricano, Sperlongano, and Arcese feature argument-driven auxiliary selection in counterfactuals. As exemplified by Cassinate in (35), in the transitive/unergative paradigm (e.g. *magnà* 'eat') the auxiliary selected is HAVE in all grammatical persons (35a), and in the unaccusative paradigm (e.g. *i* 'go') the auxiliary selected is BE in all grammatical persons (35b):

(35) *Cassinate* (counterfactual)

a. Transitives/unergatives

1SG	i avéssə I have.SBJV.1SG	magnàtə eaten.PTP	nə mə füssə not to.me be.COND.1SG felt.PTP bad	sentùtə malə sentùtə malə	H
2SG	tu avéssə you have.SBJV.2SG	magnàtə eaten.PTP	nə tə füssə not to.you be.COND.2SG felt.PTP bad	sentùtə malə sentùtə malə	H
3SG sə if	issə/essa avéssə he/she have.SBJV.3SG	magnàtə eaten.PTP	nə sə füssə not to.him/her be.COND.3SG felt.PTP bad	sentùtə malə sentùtə malə	H
1PL	nujə avéssəmə we have.SBJV.1PL	magnàtə eaten.PTP	nə cə füssəmə not to.us be.COND.1PL felt.PTP bad	sentùtə malə sentùtə malə	H
2PL	vuja avéssəvə you have.SBJV.2PL	magnàtə eaten.PTP	nə və füssəvə not to.you be.COND.2PL felt.PTP bad	sentùtə malə sentùtə malə	H
3PL	issi/essə avéssərə they have.SBJV.3PL	magnàtə eaten.PTP	nə sə füssərə not to.them be.COND.3PL felt.PTP bad	sentùtə malə sentùtə malə	H

b. Unaccusatives

1SG	i füssə I be.SBJV.1SG	itə gone.PTP	'Ntonio nə sə füssə Anthony not REFL be.COND.3SG got.mad.PTP	arrajàtə arrajàtə	B
2SG	tu füssə you be.SBJV.2SG	itə gone.PTP	'Ntonio nə sə füssə Anthony not REFL be.COND.3SG got.mad.PTP	arrajàtə arrajàtə	B
3SG sə if	issə/essa füssə he/she be.SBJV.3SG	itə gone.PTP	'Ntonio nə sə füssə Anthony not REFL be.COND.3SG got.mad.PTP	arrajàtə arrajàtə	B
1PL	nujə füssəmə we be.SBJV.1PL	itə gone.PTP	'Ntonio nə sə füssə Anthony not REFL be.COND.3SG got.mad.PTP	arrajàtə arrajàtə	B
2PL	vuja füssəvə you be.SBJV.2PL	itə gone.PTP	'Ntonio nə sə füssə Anthony not REFL be.COND.3SG got.mad.PTP	arrajàtə arrajàtə	B
3PL	issi/essə füssərə they be.SBJV.3PL	itə gone.PTP	'Ntonio nə sə füssə Anthony not REFL be.COND.3SG got.mad.PTP	arrajàtə arrajàtə	B

To summarise, hybrid argument-driven auxiliary systems in SL show sensitivity to the argumental structure of the predicate in the present perfect paradigm. Specifically, these auxiliary systems exhibit mixed HAVE/BE paradigms which are different for transitives/unergatives and unaccusatives. This is how these varieties show argument-driven sensitivity in the present perfect. Additionally, the selection of HAVE and BE in these mixed HAVE/BE paradigms appears to obey different patterns of variation, namely gender, number, discourse *vs* non-discourse participants, and generalisation of one auxiliary. All hybrid argument-structure varieties are restricted on the basis of tense, mood, and modality. As for tense, these varieties generalise one auxiliary to the detriment of the other in all grammatical persons of the transitive/unergative and unaccusative pluperfect paradigms (§ 6.3). In the case of mood restrictions, again, all these varieties either generalise auxiliary HAVE/BE in all grammatical persons of the paradigm, or they show argument-driven auxiliary selection (viz. transitive/unergative = HAVE *vs* unaccusatives = BE) in both the transitive/unergative and unaccusative counterfactual paradigms.

For the sake of the microtypology in § 9, I will divide hybrid argument-driven varieties (TYPE 3) on the basis of modality marking. Specifically, as we can see in Table 16, I label the SL varieties Campomelese, Sant'Apollinarese, and Lenolano TYPE 3A since these varieties present a [realis_{present}] *vs* [irrealis] modality restriction, hence their auxiliary systems only mark modality with the contrast between a specific paradigm in the present perfect and a different one in the counterfactual. These varieties do not have a [realis_{past}] *vs* [irrealis] modality restriction since they all generalise the same auxiliary in both the pluperfect and the counterfactual paradigms. On the other hand, I call the SL varieties Arcese, Early Ferentinese, Cassinate, Picano, Patricano, and Sperlongano TYPE 3B varieties since these exhibit [realis_{present}] *vs* [irrealis] and [realis_{past}] *vs* [irrealis] modality restrictions. Hence, these varieties have different present perfect, pluperfect, and counterfactual paradigms.

Hybrid argument-driven systems							
SL variety	realis				irrealis		Aux System Type
	present perfect		pluperfect		counterfactual		
	transitives unergatives	unaccus.	transitives unergatives	unaccus.	transitives unergatives	unaccus.	
Campomelese ¹⁷	HHH BBH	BBH BBH	B	B	B	B	TYPE 3A
Sant'Apollinarese	BBH BBH	HBH BBB	B	B	B	B	
Lenolano ¹⁸	HHH HHH	HHB~H HHH	H(B)	H(B)	H	H	TYPE 3B
Arcese	BBH BBH	BBB~H BBB	B	B	H	B	
Early Ferentinese	BBH BBH	H~BBH~B BBB	H(B)	H(B)	B	B	
Cassinate	HBH BBH	HBB~B BBB~H	B	B	H	B	
Picano	BBH~B BBH	BBH BBH	H(B)	H(B)	B	B	
Patricano	HHH HHH	BBH BBH	H(B)	H(B)	H	B	
Sperlongano	HHH BHH	HBB BBB	H(B)	H(B)	H	B	

Tab. 16 - Hybrid argument-driven systems (TYPE 3).

¹⁷ See in fn. 12.

¹⁸ The generalisation of HAVE in transitive/unergative/unaccusative pluperfect and counterfactual paradigms is also found in the variety of Frascati (Castelli Romani) investigated by Lorenzetti (1995, ch. 3). See also the varieties of Secinaro, Tufillo, Montenerodomo, Giovinnazzo, Molfetta, Ruvo di Puglia, Bitetto, Padula, and Castelvecchio Subequo investigated in Manzini, Savoia (2005, vol. II, p. 729).

7. *Person-driven systems*

The SL varieties Campolese, Alvitano, Piciniscano, Modern Ferentinese, Cepranese, and San Donatense show no sensitivity whatsoever to the argumental structure of the predicate (cf. pure and partial argument-driven varieties; § 4, § 5). Hence, there is no difference between transitives/unergatives and unaccusatives in the present perfect. However, these varieties, as I show in § 7.1, show tense, mood, and modality restrictions as well, and hence different pluperfect and counterfactual paradigms. In present perfect paradigms, the choice between the two auxiliaries HAVE and BE depends on the grammatical person, which is sensitive to three factors: discourse *vs* non-discourse participants (i.e. 1st/2nd persons *vs* 3rd persons), number (i.e. singular *vs* plural), and gender (i.e. masculine *vs* plural), as we can see in Table 17.

Patterns of variation in present perfect paradigms		
Discourse/non-discourse participant sensitivity	Number sensitivity	Gender sensitivity
Campolese Alvitano Piciniscano Modern Ferentinese	San Donatense	Cepranese

Tab. 17 - Patterns of variation in present perfect paradigms.

Campolese, Alvitano, Piciniscano, and Modern Ferentinese have person-driven auxiliary systems which show discourse *vs* non-discourse participant sensitivity (i.e. 1st/2nd singular and plural *vs* 3rd singular and plural) with both transitive/unergative and unaccusative verbs (Table 18), hence displaying a nominative-accusative system which distinguishes all types of subjects (i.e. A/S_A) from O. For example, Campolese (36) shows in both present perfect transitive/unergative and unaccusative paradigms the auxiliary BE in the 1st and 2nd person singular and plural and the auxiliary HAVE in the 3rd person singular and plural.

(36) *Campolese* (present perfect, transitives/unergatives/unaccusatives)

i sò / tu sə / issə/essa a / nu sémə / vu sétə / issi/essə éu vennùtə (la
 I am you are he/she has we are you are they.M/F have sold.PTP the.F.SG
 macchina) / ito.
 car.F.SG gone.PTP
 'I am, you are, s/he has, we are, you are, they have sold the car / gone.'

SL Variety	Persons					
	1SG	2SG	3SG	1PL	2PL	3PL
Campolese	B	B	H	B	B	H
Alvitano	B	B	H	B	B	H
Picinisano	B	B	H	B	B	H
Modern Ferentinense	B	B	H	B	B	H

Tab. 18 - Discourse/non-discourse participant restrictions.

The SL variety San Donatese (37) displays a person-driven split system, which shows number sensitivity (i.e. singular *vs* plural) in both transitive/unergative (e.g. *vennə* ‘sell’, *i* ‘go’) and unaccusative paradigms (Table 19). Specifically, in San Donatese there is a contrast between the selection of BE in the 3rd person singular and HAVE in the 3rd person plural in both transitive/unergative and unaccusative paradigms.

(37) *San Donatese* (present perfect; transitives/unergatives/unaccusatives)

i sò / tu si / issə/essa è / nu sémə / vu sétə / issi/essə jəvə vennütə (la
 I am you are he/she is we are you are they.M/F have sold.PTP the.F.SG
 mächina) / ito.
 car.F.SG gone.PTP
 ‘I am, you are, s/he is, we are, you are, they have sold the car / gone.’

SL Variety	Persons					
	1SG	2SG	3SG	1PL	2PL	3PL
San Donatese	B	B	B	B	B	H

Tab. 19 - Number restrictions.

In both transitive/unergative (e.g. *vennə* ‘sell’) and unaccusative (e.g. *i* ‘go’) present perfect paradigms, Cepranese shows sensitivity to gender (i.e. masculine *vs* feminine). In particular, the auxiliaries HAVE and BE are selected on the basis of the gender of the animate subject in the 3rd person singular. As we can see in the Cepranese example in (38), masculine animate subjects (e.g. *issə* ‘he’) select the auxiliary HAVE in the 3rd person singular and feminine animate subjects (e.g. *essa* ‘she’) select the auxiliary BE in the 3rd person singular (Table 20)¹⁹:

¹⁹ Note that the gender alternation is also present with proper nouns and full DPs; e.g. *Aldə a vennütə la mächina* ‘Aldo has sold the car’ *vs* *Iolə è vennütə la mächina* ‘Iole is sold the car’. This

(38) *Cepranese* (present perfect; transitives/unergatives/unaccusatives)

i sò / tu si / issa/essa a/è / nu séma / vu sétə / issi/essa au vennùtə (la
 I am you are he/she has/is we are you are they.M/F have sold.PTP the.F.SG
 màchina) / itə.
 car.F.SG gone.PTP
 ‘I am, you are, he has / she is, we are, you are, they have sold the car / gone.’

SL Variety	MASCULINE						FEMININE					
	1SG	2SG	3SG	1PL	2PL	3PL	1SG	2SG	3SG	1PL	2PL	3PL
Cepranese	B	B	H	B	B	H	B	B	B	B	B	H

Tab. 20 - Gender restrictions.

7.1. *Tense, mood, and modality restrictions*

As with all SL auxiliary systems presented above in § 4 - § 6, person-driven split auxiliary systems in SL also exhibit tense, mood, and modality restrictions. In particular, beginning with temporal restrictions, all SL person-driven split auxiliary systems generalise the auxiliary BE in all grammatical persons of both transitive/unergative and unaccusative pluperfect paradigms. As shown in (39) for Piciniscano, the auxiliary BE is selected in all grammatical persons in both transitive/unergative (e.g. *purta* ‘drive’) and unaccusative (e.g. *i* ‘go’) pluperfect paradigms:

(39) *Piciniscano* (pluperfect; transitives/unergatives/unaccusatives)

i éra / tu éra / issa/essa éra / nu erauàma / vu erauàtə / issi/essa eranə pùrtatə
 I was you were he/she was we were you were they.M/F were driven.PTP
 (la màchina) / itə.
 the.F.SG car.F.SG gone.PTP
 ‘I was, you were, he was / she was, we were, you were, they were driven the car / gone.’

As for mood restrictions, all SL person-driven split varieties generalise auxiliary BE for all persons in both transitive/unergative and unaccusative counterfactual paradigms. Taking Campolese as an example, in (40) we see that the auxiliary BE is selected in all grammatical persons of the transitive/unergative (e.g. *magnà* ‘eat’; (40a)) and the unaccusative (e.g. *i* ‘go’; (40b)) counterfactual paradigms.

excludes the possibility that the alternation might be the result of a phonetic co-articulation process between the final vowel of the pronoun and the initial vowel of the auxiliary forms.

(40) *Campolese* (counterfactual)

a. Transitives/unergatives

1SG	i füssə I be.SBJV.1SG	magnātə eaten.PTP	nə mə saria not to.me be.COND.1SG felt.PTP bad	B
2SG	tu füssə you be.SBJV.2SG	magnātə eaten.PTP	nə tə saria not to.you be.COND.2SG felt.PTP bad	B
3SG sə if	issa/essa füssə he/she be.SBJV.3SG	magnātə eaten.PTP	nə sə saria not to.him/her be.COND.3SG felt.PTP bad	B
1PL	nu füssəmə we be.SBJV.1PL	magnātə eaten.PTP	nə cə sarissəmə not to.us be.COND.1PL felt.PTP bad	B
2PL	vu füssəvə you be.SBJV.2PL	magnātə eaten.PTP	nə və sarissəvə not to.you be.COND.2PL felt.PTP bad	B
3PL	issi/essa füssərə they be.SBJV.3PL	magnātə eaten.PTP	nə sə sarissərə not to.them be.COND.3PL felt.PTP bad	B

b. Unaccusatives

1SG	i füssə I be.SBJV.1SG	itə gone.PTP	'Ntoniə nə sə saria Anthony not REFL be.COND.3SG got.mad.PTP	B
2SG	tu füssə you be.SBJV.2SG	itə gone.PTP	'Ntoniə nə sə saria Anthony not REFL be.COND.3SG got.mad.PTP	B
3SG sə if	issa/essa füssə he/she be.SBJV.3SG	itə gone.PTP	'Ntoniə nə sə saria Anthony not REFL be.COND.3SG got.mad.PTP	B
1PL	nu füssəmə we be.SBJV.1PL	itə gone.PTP	'Ntoniə nə sə saria Anthony not REFL be.COND.3SG got.mad.PTP	B
2PL	vu füssəvə you be.SBJV.2PL	itə gone.PTP	'Ntoniə nə sə saria Anthony not REFL be.COND.3SG got.mad.PTP	B
3PL	issi/essa füssərə they be.SBJV.3PL	itə gone.PTP	'Ntoniə nə sə saria Anthony not REFL be.COND.3SG got.mad.PTP	B

As schematised in Table 21, person-driven split auxiliary systems in SL do not show any sensitivity to the argumental structure of the predicate. This is shown by the fact that there is no difference between the present perfect paradigm of transitives/unergatives and unaccusatives. In fact, the selection of the auxiliaries HAVE and BE in the transitive/unergative and unaccusative paradigms is influenced by three factors: discourse *vs* non-discourse participant person (1st/2nd *vs* 3rd persons), number (singular *vs* plural), and gender (masculine *vs* feminine). All these systems have tense and mood restrictions, since all present the generalisation of the auxiliary BE in all grammatical persons in the pluperfect and the counterfactual transitive/unergative and unaccusative paradigms (Table 21). In terms of modality, then, all SL person-driven split auxiliary systems have a [realis_{present}] *vs* [irrealis] restriction, since these varieties present the same pluperfect and counterfactual paradigms which contrast with a different present perfect paradigm.

For the sake of our microtypology of SL auxiliary systems, I therefore group Campolese, Alvitano, Piniciscano, Modern Ferentinese, Ce-

pranese, and San Donatese under the same auxiliary system type, namely TYPE 4.

SL variety	Person-driven systems					
	realis				irrealis	
	present perfect		pluperfect		counterfactual	
	transitives unergatives	unaccusatives	transitives unergatives	unaccusatives	transitives unergatives	unaccusatives
Campolese	BBH BBH	BBH BBH	B	B	B	B
Alvitano	BBH BBH	BBH BBH	B	B	B	B
Piciniscano	BBH BBH	BBH BBH	B	B	B	B
Modern Ferentinense	BBH BBH	BBH BBH	B	B	H	B
Cepranese	BBH~B BBH	BBH~B BBH	B	B	B	B
San Donatese	BBB BBH	BBB BBH	B	B	B	B

Tab. 21 - Person-driven systems (TYPE 4).

8. Tense-and-mood-driven auxiliary systems

Only the SL variety Arpinate (41) uses a tense-and-mood-based auxiliary system. This variety generalises the auxiliary BE in both the present perfect transitive/unergative (e.g. *vénnə* ‘sell’) and unaccusative (e.g. *i* ‘go’; (41)) paradigms in all grammatical persons (Table 22). As for tense and mood, Arpinate exhibits selection of the auxiliary HAVE in all persons of both transitive/unergative (e.g. *purtà* ‘drive’) and unaccusative (e.g. *i* ‘go’) pluperfect (42), and the auxiliary BE in the counterfactual (e.g. *attreppà* ‘car’, *i* ‘go’; (43)) paradigms.

(41) Arpinate (present perfect; transitives/unergatives/unaccusatives)

ie só / tu si / issə/essa è / nuə sémə / vuə sétə / issi/essə sévə vennùtə (la
 I am you are he/she is we are you are they.M/F are sold.PTP the.F.SG
 mächəna) / ito.
 car.F.SG gone.PTP
 ‘I am, you are, s/he is, we are, you are, they are sold the car / gone.’

(42) Arpinate (pluperfect; transitives/unergatives/unaccusatives)

ie èva / tu ivə / issə/essa èva / nuə èvamə / vuə èvatə / issi/essə èvanə purtətə
 I had_{was} you had he/she had_{was} we had you had they.M/F had driven.PTP
 (la mächəna) / ito.
 the.F.SG car.F.SG gone.PTP
 ‘I had, you had, s/he had, we had, you had, they had sold the car / gone.’

(43) *Arpinate* (counterfactual)

a. Transitives/unergatives

1SG	ie füssə I be.SBJV.1SG	atrepptə eaten.PTP	nə mə sarria not to.me be.COND.1SG	sentütə malə felt.PTP sick	B
2SG	tu füssə you be.SBJV.2SG	atrepptə eaten.PTP	nə tə sarria not to.you be.COND.2SG	sentütə malə felt.PTP sick	B
3SG sə if	issa/essa füssə he/she be.SBJV.3SG	atrepptə eaten.PTP	nə sə sarria not to.him/her be.COND.3SG	sentütə malə felt.PTP sick	B
1PL	nu füssəmə we be.SBJV.1PL	atrepptə eaten.PTP	nə cə sarriśəmə not to.us be.COND.1PL	sentütə malə felt.PTP sick	B
2PL	vu füssəvə you be.SBJV.2PL	atrepptə eaten.PTP	nə və sarriśəvə not to.you be.COND.2PL	sentütə malə felt.PTP sick	B
3PL	issi/esso füssərə they be.SBJV.3PL	atrepptə eaten.PTP	nə sə sarriśərə not to.them be.COND.3PL	sentütə malə felt.PTP sick	B

b. Unaccusatives

1SG	ie füssə I be.SBJV.1SG	itə gone.PTP	'Ntoniə nə sə sarria Anthony not REFL be.COND.3SG	'ncazzatə got.mad.PTP	B
2SG	tu füssə you be.SBJV.2SG	itə gone.PTP	'Ntoniə nə sə sarria Anthony not REFL be.COND.3SG	'ncazzatə got.mad.PTP	B
3SG sə if	issa/essa füssə he/she be.SBJV.3SG	itə gone.PTP	'Ntoniə nə sə sarria Anthony not REFL be.COND.3SG	'ncazzatə got.mad.PTP	B
1PL	nu füssəmə we be.SBJV.1PL	itə gone.PTP	'Ntoniə nə sə sarria Anthony not REFL be.COND.3SG	'ncazzatə got.mad.PTP	B
2PL	vu füssəvə you be.SBJV.2PL	itə gone.PTP	'Ntoniə nə sə sarria Anthony not REFL be.COND.3SG	'ncazzatə got.mad.PTP	B
3PL	issi/esso füssərə they be.SBJV.3PL	itə gone.PTP	'Ntoniə nə sə sarria Anthony not REFL be.COND.3SG	'ncazzatə got.mad.PTP	B

Tense-and-mood-driven auxiliary systems do not have any sensitivity to the argument structure of the verb, since there is no difference between the transitive/unergative and unaccusative paradigms in the present perfect, pluperfect, and counterfactual. *Arpinate* has tense restrictions since it generalises BE in all grammatical persons of the transitive/unergative and unaccusative past perfect paradigms, in contrast with the generalisation of HAVE in all persons of the transitive/unergative and unaccusatives pluperfect paradigms. Moreover, it also presents mood restrictions, since *Arpinate* shows the generalisation of HAVE in all persons of the transitive/unergative and unaccusative pluperfect paradigms, which contrasts with the generalisation of BE in all persons of the transitive/unergative and unaccusative counterfactual paradigms.

In terms of modality restrictions, then, I maintain that tense-and-mood-driven auxiliary systems in SL mark modality only in [realis_{past}] *vs* [irrealis] contexts, since the generalisation of HAVE in the pluperfect contrasts with the generalisation of BE in the counterfactual. This is also supported by

the fact that in Arpinate there is the generalisation of BE in both the present perfect and the counterfactual paradigms. I call tense-and-mood-driven systems TYPE 5 systems in the microtypology of modality systems in SL, as illustrated in § 9.

Tense-and-mood-driven systems						
SL variety	realis				irrealis	
	present perfect		pluperfect		counterfactual	
	transitives unergatives	unaccusatives	transitives unergatives	unaccusatives	transitives unergatives	unaccusatives
Arpinate	B	B	H(B) ²⁰	H(B)	B	B

Tab. 22 - Tense-and-mood-driven systems (TYPE 5).

9. *A microtypology of Southern Lazio auxiliary systems*

Having described the individual auxiliary systems of SL, we can now sketch a microtypology of these systems. With the term ‘microtypology’ I intend a typological classification among closely-related and minimally-differing languages, which applies to the linguistic situation of SL. Specifically, I propose the microtypology for SL in Table 23 where I consider mood/modality restrictions, which seem to be, together with tense restrictions, the source of substantial differences and similarities among auxiliary systems in SL. As shown in § 3, it is possible to find five types of auxiliary systems in SL, namely pure argument-driven systems (TYPE 1), partial argument-driven systems (TYPE 2), hybrid argument-driven systems (TYPE 3), person-driven split auxiliary systems (TYPE 4), and tense and mood-driven auxiliary systems (TYPE 5).

²⁰ See in fn. 12.

Auxiliary system type	Tense restrictions	Mood and Modality restrictions	Varieties
<i>Pure argument-driven auxiliary systems</i>			
TYPE 1	(NO) ²¹	(NO) ²²	Sant’Eliano
<i>Partial argument-driven auxiliary systems</i>			
TYPE 2A	YES	YES	Concano Fauciano
TYPE 2B	YES	YES [realis _{present}] vs [irrealis]	Castelfortese Carinolese
<i>Hybrid argument-driven auxiliary systems</i>			
TYPE 3A	YES	YES [realis _{present}] vs [irrealis]	Campomelese Sant’Apollinare Lenolano
TYPE 3B	YES	YES [realis _{present/past}] vs [irrealis]	Arcese Sperlongano Picano Patricano Cassinate Early Ferentinense
<i>Person-driven auxiliary systems</i>			
TYPE 4	YES	YES [realis _{present}] vs [irrealis]	Campolese Alvitano Piciniscano Modern Ferentinense Cepranese San Donatense
<i>Tense and mood-driven auxiliary systems</i>			
TYPE 5	YES	YES [realis _{past}] vs [irrealis]	Arpinate

Tab. 23 - A microtypology of SL auxiliary systems.

²¹ This is only true for the alternation of the two auxiliaries as opposed to the features grammaticalized by the exponences of the two auxiliaries HAVE and BE.

²² See in fn. 12.

Pure argument-driven systems (TYPE 1) present no tense, mood, and modality restrictions involved in the selection of the auxiliary. This type is exemplified by the SL variety Sant'Eliano. Typologically speaking, this is the auxiliary system that we find in modern Romance, e.g. standard Italian and French.

Partial argument-driven systems (TYPE 2) present tense, mood, and modality restrictions. Specifically, I divide TYPE 2 auxiliary systems into two sub-systems, namely TYPE 2A and TYPE 2B. TYPE 2A shows tense restrictions but mood and modality restrictions only between $[\text{realis}_{\text{past}}]$ vs $[\text{irrealis}]$. Concano and Fauciano are part of this auxiliary type. TYPE 2B shows tense restrictions, but mood and modality restrictions only between $[\text{realis}_{\text{present}}]$ vs $[\text{irrealis}]$. The SL varieties Castelfortese and Carinolese belong to this auxiliary type.

Hybrid argument-driven auxiliary systems (TYPE 3) exhibit tense, mood, and modality restrictions. In SL we find two different kinds of TYPE 3 auxiliary systems, namely TYPE 3A and TYPE 3B. TYPE 3A has tense restrictions, but mood and modality restrictions only between $[\text{realis}_{\text{present}}]$ vs $[\text{irrealis}]$. Campomelese, Sant'Apollinarese, and Lenolano belong to this auxiliary type. On the other hand, TYPE 3B shows tense restrictions, but mood and modality restrictions only between $[\text{realis}_{\text{present/past}}]$ vs $[\text{irrealis}]$. Arcese, Sperlongano, Picano, Patricano, Cassinate, and Early Ferentinese exemplify this group in SL.

Person-driven auxiliary systems (TYPE 4) show tense restrictions, but mood and modality restrictions only between $[\text{realis}_{\text{present}}]$ vs $[\text{irrealis}]$. This auxiliary type is exemplified in SL by Campolese, Alvitano, Piciniscano, Modern Ferentinese, Cepranese, and San Donatese.

Finally, tense and mood-driven auxiliary systems present tense restrictions, but mood and modality restrictions only between $[\text{realis}_{\text{past}}]$ and $[\text{irrealis}]$. Arpinate is the only SL variety that belongs to this auxiliary type.

10. *SL auxiliation is not unprincipled language variation*

Even if the variation found in SL auxiliary selection appears to be complex, it is far from being unprincipled. From both a functional (Greenberg 2005 [1966]; Haspelmath *et al.* 2004) and a formal (Chomsky 1981) perspective, there is agreement on the fact that syntactic variation cannot be unpredictable or limitless. This is also the case for SL auxiliary selection, which is indeed principled and restricted by the *parametric space*.

In order to explain the variation found in SL varieties, I will assume a so-called ‘emergentist’ approach to language variation developed by Biberauer, Roberts (2015, 2017, 2016), Biberauer (2019), and Roberts (2019). This approach, briefly outlined in § 10.1, conceives parametric variation as an implicationally structured set of parameters, which can be organised into a taxonomy illustrated by means of so-called ‘parameter hierarchies’. Such an approach demonstrates that the variation found in SL varieties is indeed predictable, limited, and thus, part of possibly acquired grammars.

10.1. *Background: parameter hierarchies and language variation*

Within a Principles and Parameter approach Chomsky (1981), Biberauer, Roberts (2015, 2016, 2017), Biberauer (2019), and Roberts (2019) argue for the existence of a different granularity of language variation proposing the following taxonomy of parameters:

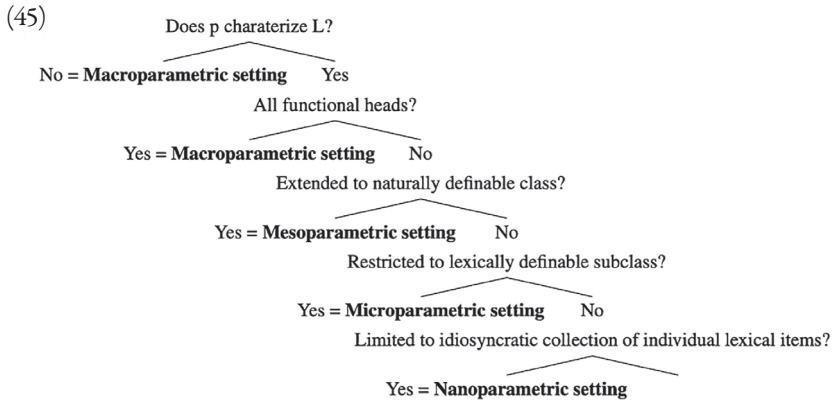
(44) Different sizes of parametric variation (Biberauer 2019, p. 22)

For a given value v_i of a parametrically variant feature F :

- a. *Macroparameters*: all functional heads of the relevant type share v_i ;
- b. *Mesoparameters*: all functional heads of a given naturally definable class, e.g. [+V], share v_i ;
- c. *Microparameters*: a small subclass of functional heads (e.g. modal auxiliaries) shows v_i ;
- d. *Nanoparameters*: one or more individual lexical items is/are specified for v_i .

Without going too much into detail, the central idea is that macroparameters are to be considered ‘bigger’ parameters with respect to meso-, micro-, and nano-parameters (which are ‘smaller’ parameters). In particular, macroparameters are the result of clusters of microparameters which behave in concert. In formal terms, macroparameters are set for a particular formal feature (e.g. tense feature), whereas microparameters arise when different subclasses of functional heads present, for a given feature, different featural specifications (e.g. different kinds of tense features).

Conceived in this way, the parametric space can be illustrated by parametric hierarchies along the lines of (45):



Needless to say, hierarchies are able to restrict the space of possible grammars by illustrating the intrinsic dependencies across parameters. Consequently, these hierarchies are remarkably useful for the Romance linguist, who usually deals with the granularity of parametric variation. Thus, via parameter hierarchies, we can make predictions about how specific parameters involved in parametric granularity are interrelated. This is why parametric hierarchies have proved to be quite valuable in previous studies aimed at modelling Romance variation in different domains: adverb and participle agreement (Silvestri 2016), nominal and clausal domains (Ledgeway 2015), auxiliary selection (Ledgeway 2019), and complementation (Colasanti 2018c, a).

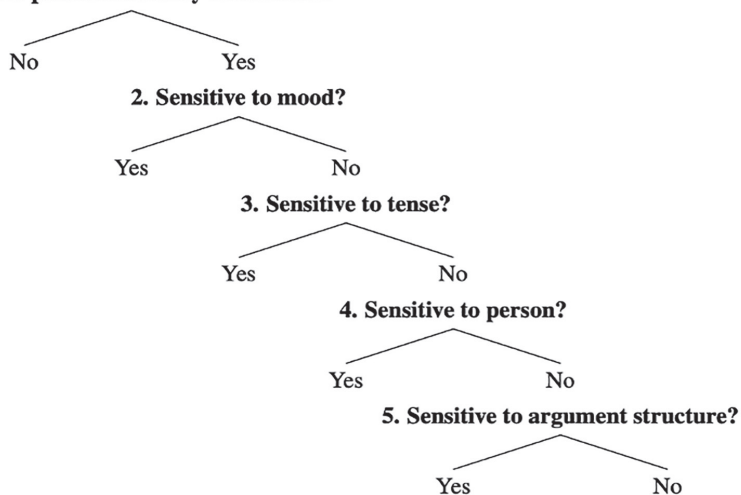
10.2. *A parameter hierarchy for auxiliation in SL*

Starting from the parameter hierarchy for auxiliary selection already proposed for Romance by Ledgeway (2019, p. 348) in (46), we observe that, within the mesoparametric space, there are five dimensions of variation in Romance perfective auxiliary alternation. Question 1 splits up the Romance languages which present alternation between HAVE and BE from languages which do not present any alternation (e.g. generalisation of one auxiliary; e.g. many Ibero-Romance and extreme/upper southern Italo-Romance varieties). If the given Romance variety presents auxiliary alternation, it can be determined by mood, tense, person, and argument structure. At the levels of both person and argument structure, auxiliary selection can blend modal and temporal restrictions to produce increasingly complex auxiliation ‘sys-

tems', which can be also seen in SL. However, in Romance, both these levels, more fine-grained variation is present, which is to be considered in fact as microparametric. For instance, at a microparametric level, we are not considering 'person' but different featural specifications of person; e.g. discourse participant sensitivity, number etc. This is why, postulating the existence of two microparameter hierarchies which model the variation within person and argument structure, Ledgeway (2019, pp. 354-375) is able to interpret the granularity of variation present within Romance perfective auxiliary selection.

(46) Parameter hierarchy for Romance auxiliary selection (adapted from Ledgeway 2019, p. 348)

1. Does L present auxiliary alternation?



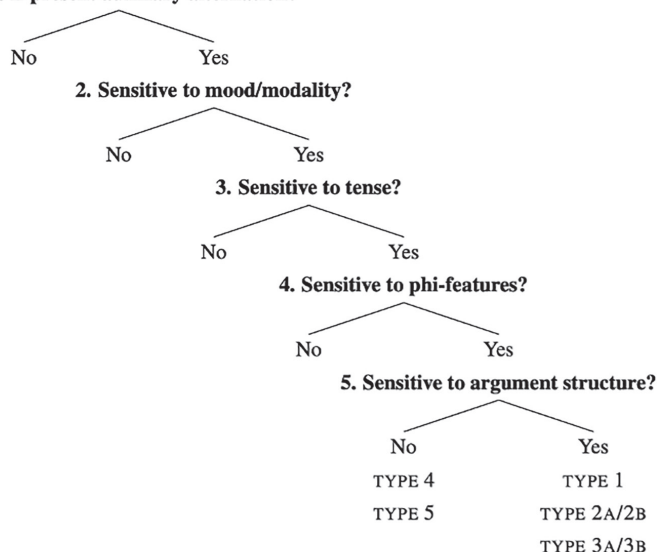
With respect to SL auxiliary selection, the same mesoparameter hierarchy put forward by Ledgeway (2019) can also model some of the meso-variation presented in SL varieties, as expected. However, at a microparametric level, the parameter hierarchy for SL auxiliiation presents different parametric dependencies and implications because the microparameters found in SL are different. Starting with modelling the mesoparametric variation in § 10.3, we then proceed to the modelling of microparametric variation in § 10.4 in SL.

10.3. *Mesoparametric variation*

Every language type found in SL and classified in the microtypology for SL auxiliary selection in § 9 can be captured by the mesoparameter hierarchy in (47) below. However, this parameter hierarchy presents a number of very small changes with respect to the one in (46) previously proposed for Romance by Ledgeway (2019).

First, the variation exhibited at a mesoparametric level in SL varieties is modelled by the ‘yes’ answers (as opposed to the ‘no’ answers) to all the questions in the hierarchy proposed by Ledgeway (2019) in (46). The general assumption is that the auxiliary category in Romance (and beyond) is related to the lexicalisation of mood/modality²³, tense, and person/phi-features. Specifically, the very nature of an auxiliary in Romance is to grammaticalise these features. Additionally, the alternation between the two auxiliaries can also be sensitive to the interaction of tense, mood, and person/phi-features in Romance. In short, concerning Question 2, 3, and 4, I take the ‘sensitivity’ to be related both to the features that the auxiliary category grammaticalises (i.e. tense, mood, person/phi-features) and the features which influence the alternation between the two auxiliaries HAVE and BE in Romance. This is a first difference from the hierarchy proposed by Ledgeway (2019, p. 348) in (46), where only the sensitivity with respect to the auxiliary alternation is considered (but not the sensitivity related to the features grammaticalised by the auxiliary category). In this way, we are able to model varieties which show sensitivity to mood/modality, tense, and also phi-features (and, eventually, to argument structure) at the same time and which are found in SL (e.g. hybrid argument-driven systems and person-driven systems).

²³ Although Question 2 in the hierarchy proposed by Ledgeway (2019) for Romance considers only ‘mood’ but not ‘modality’ (cf. Question 1, SL hierarchy in (47)), I do not consider this to be a difference between the two hierarchies, as I consider mood to be strongly interrelated to (realis/irrealis) modality.

(47) 1. Does **L** present auxiliary alternation?

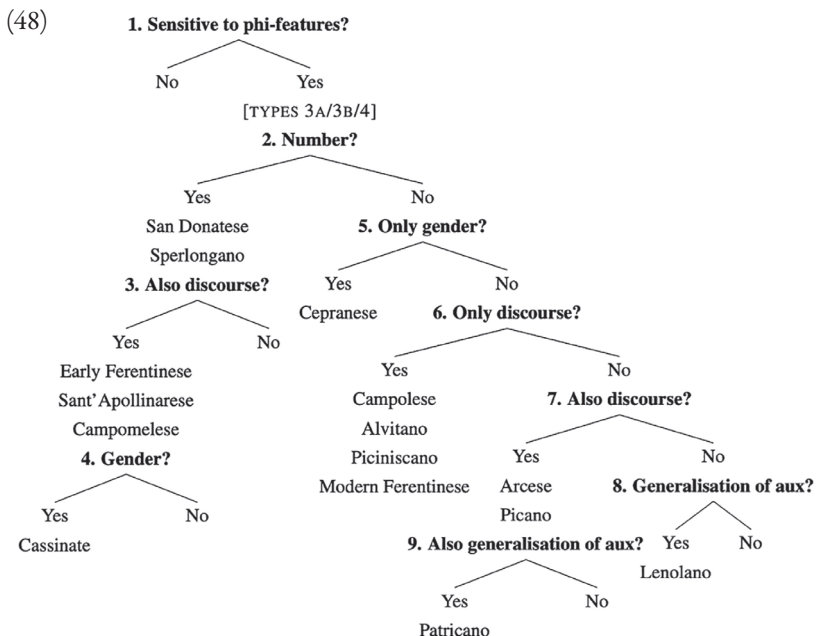
The parameter hierarchy in (47) for SL mesoparametric variation is also different from the one proposed by Ledgeway (2019, p. 348) in terms of Question 4. While the latter in Ledgeway (2019) asks whether the variety is sensitive to ‘person’ (46), Question 4 in (47) is more generally concerned with ‘phi’ features (Kerstens 2012). This is because the microvariation found in SL varieties goes well beyond the phi-feature person but includes several different phi-features (of which person features are part), such as person, number, and gender. In order to capture SL variation, we therefore need to enlarge the scope of Question 4.

The variation present in TYPE 1, 2A, 2B, and 5 is already modelled at a mesoparameter level by the hierarchy in (47): TYPE 1 (pure argument-driven) varieties exhibit auxiliary selection (hence, mood, tense, and person/phi features the auxiliary category) sensitive to the argumental structure of the predicate they accompany. Thus, these varieties occupy the ‘yes’ choice at the bottom of the hierarchy in (47). In the same position we also find TYPE 2A and 2B (partial argument-driven) varieties as these are partially sensitive to the argumental structure of the lexical verb, but the combination of HAVE and BE in these varieties is also sensitive to mood/modality and tense (in addition to mood, tense, and person/phi

features on the auxiliary category), creating different complex systems of auxiliation. This place is also occupied by TYPE 3A and 3B (hybrid argument-driven) varieties; however, these varieties present microparametric variation at the level of the person (Question 4). Hence, the microparametric variation found at the level of the single varieties will need to be additionally modelled by a specific microparameter hierarchy for phi-features (see § 10.4). The ‘no’ choice to Question 5 of the hierarchy is occupied by TYPE 4 (person-driven auxiliary) and TYPE 5 (tense-and mood-driven auxiliary) varieties. In particular, while the parametric variation exhibited by TYPE 5 varieties is already modelled by the mesoparameter hierarchy in (47) because the auxiliary alternation is only sensitive to tense and mood/modality but not to the argumental structure of the lexical verb, TYPE 4 exhibits additional microparametric variation at the level of phi-features, as we will see in § 10.4.

10.4. *Microparametric variation*

The microparametric variation present in SL varieties such as TYPES 3A, 3B (hybrid argument-driven auxiliary systems) and 4 (person-driven auxiliary systems), is not exhaustively modelled by the mesoparametric hierarchy in (47) above. In fact, in order to model the variation found in TYPES 3A, 3B, and 4 systems, we will also need to consider also new microparameters, which have been found in SL varieties but they have not been found before in Romance before now (e.g. gender sensitivity). The parameter hierarchy in (48) is a sub-hierarchy for microparametric variation found with respect to phi-features and it should be considered as dependent on Question 4 of the mesoparameter hierarchy in (47).



Starting from Question 1 in (48), the hierarchy divides languages which show the selection of the auxiliary influenced by phi-features from those which do not show such a sensitivity. Further down the hierarchy, Question 2 divides languages belonging to TYPES 3A, 3B, and 4 (which auxiliary selection is sensitive to phi-features) in which show number sensitivity (i.e. San Donatese, Sperlongano, Sant'Apollinarese, Campomelese, Early Ferentinese, Cassinate) from varieties which do not (i.e. Campolese, Alvitano, Piciniscano, Modern Ferentinese, Cepranese, Arcese, Patricano, Lenolano, Picano).

Varieties such as San Donatese and Sperlongano exhibit sensitivity only to number (i.e. 'Yes' answer to Question 2). However, this is not the case for varieties such as Early Ferentinese, Sant'Apollinarese, and Campomelese, which, on top of number sensitivity, also show also sensitivity to discourse (i.e. 1/2 persons *vs* 3 persons; 'Yes' answer to Question 3). The answer 'Yes' to Question 4 models varieties such as Cassinate, which shows sensitivity to gender, discourse participants, and number.

Among the varieties in which auxiliary selection is not sensitive to number (i.e. 'No' answer to Question 2), we need to model varieties which present exclusive sensitivity to gender, such as Cepranese (i.e. 'Yes' answer to Ques-

tion 5) and varieties which do not present sensitivity to number and gender, but exclusively to discourse participants, such as Campolese, Alvitano, Piciniscano, and Modern Ferentinese (i.e. 'Yes' answer to Question 6). The answer 'No' to Question 6, would predict the existence of varieties which do not present both sensitivity to number, and exclusive gender and/or discourse sensitivity. For instance, Arcese and Picano both present additional sensitivity to gender and discourse ('Yes' answer to Question 7). However, on the one hand, varieties such as Lenolano present additional sensitivity to gender ('No' answer to Question 5) and the generalisation of the auxiliary for each person. On the other hand, Patricano also exhibits sensitivity to discourse ('Yes' answer to Question 7) and the generalisation of the auxiliary for each person ('Yes' answer to Question 9).

The variation exhibited by SL perfective auxiliary selection can be modelled at the level of mesoparametric variation and microparametric variation, although, as expected, the mesoparametric variation hierarchy previously proposed by Ledgeway (2019) models Romance variation in auxiliary selection (SL varieties included), with small changes. At a microparametric level, the variation shown by SL varieties in terms of auxiliary selection needs to be modelled with the specific microparametric hierarchy in (48) for phi-features. This is due to the fact that there is a need to model patterns of microvariation for SL varieties which have not been previously found in other Romance varieties. Hence, a new parameter hierarchy with new implicational relationships for new parameters is entirely expected.

There are at least two advantages of modelling the parametric variation found in SL varieties by means of a parameter hierarchy. The first is related to the predictability that such an approach creates in terms of possible grammars. In fact, the hierarchy predicts the existence of specific patterns of variation among languages which present auxiliary selection, which means that we are able to go beyond the descriptive adequacy. In other words, we do not simply document the empirical evidence from Italo-Romance varieties – which variation in terms of auxiliary selection is far from being entirely documented – but we try to give an explanation for it.

The predictions made by the mesoparameter hierarchy proposed by Ledgeway (2019) appear to be empirically grounded also with respect to SL varieties; i.e., the hierarchy predicts the system of perfective auxiliation found in SL varieties. In terms of microvariation, since some of the empirical facts found in SL are novel and so far unattested in Romance, some new predictions can be made on the basis of the microparametric hierarchy

in (48). In particular, the hierarchy in (48) predicts the non-existence of varieties which exhibit mesoparametric person-driven auxiliary selection, and microparametric sensitivity to number, discourse, and gender on top of the generalisation of the auxiliary across grammatical person²⁴. The hierarchy also predicts the non-existence of person-driven systems which show sensitivity to gender, the generalisation of one auxiliary, and number sensitivity at the same time, or grammars which are not sensitive to gender but exhibit discourse sensitivity and the generalisation of one auxiliary at the same time.

As we can see, an approach in terms of parameter hierarchies makes some predictions in terms of possible and impossible grammars. However, it makes also implicationally relevant predictions in terms of microparameter clusters; i.e. a set of microparameters acting together, whose presence/absence is determined by each other's presence/absence. For instance, in terms of phi-features, we can say that if a given variety shows person sensitivity to number, then it can show additional sensitivity to discourse and gender only. However, if a given variety presents no sensitivity to number, then it can show sensitivity not only to gender and discourse, but also the generalisation of one auxiliary. To the best of my knowledge, these impossible patterns of auxiliary selection have not been discovered so far.

11. *Contributions and conclusions*

The varieties spoken in Southern Lazio exhibit empirically unattested and hybrid patterns of auxiliary selection. This confirms the hypothesis that SL is a transitional area between the varieties spoken in the centre and those spoken in the upper South of Italy, not only from a phonetic/phonological perspective but also from a morphosyntactic point of view; i.e. on the basis of morphosyntactic isoglosses. The microtypology of SL auxiliary systems includes five auxiliary system types: pure argument-driven auxiliary systems (TYPE 1), partial argument-driven auxiliary systems (TYPE 2), hybrid argument-driven auxiliary systems (TYPE 3), person-driven auxiliary systems (TYPE 4), and tense and mood-driven auxiliary systems (TYPE 5).

²⁴ For instance, this could mean that a variety would hypothetically present the generalisation of one auxiliary for transitive/unergative predicates and sensitivity to number, discourse, and gender for unaccusative predicates. To the best of my knowledge, such a variety does not exist in Romance or this pattern has not been empirically discovered yet.

Although presenting a number of patterns previously documented within the Romance literature on auxiliary selection (e.g. sensitivity to person and number of the subject, tense/mood, discourse participants etc.), SL varieties also exhibit patterns of variation not previously noted in Romance (e.g. gender-sensitivity). What is more, this apparently unprincipled variation found in SL can be modelled in terms of parameter hierarchies. In particular, while empirically confirming the mesoparametric hierarchy proposed by Ledgeway (2019), a new microparametric hierarchy for sensitivity to phi-features (i.e. gender, number, discourse participants, person, and auxiliary generalisation) is put forward in this paper in order to include the new parameters of variation found in SL.

On top of the empirical contribution made by this paper, an approach in terms of parameter hierarchies is appealing as it also allows the linguist faced with complex clusters of parameters (i.e. micro- and macroparameters) and their combinations to explain such variation and reveal the implicational relations among these different parameters. These relations among several meso- and macro-parameters also allow the prediction of the existence of possible and impossible patterns of auxiliary selection in Romance. Granted the fact that the patterns of auxiliary selection in Romance are far from being fully documented, these empirical predictions are, at the time of writing, being met.

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