

Null arbitrary subjects in Greek¹

Abstract

The present paper investigates null arbitrary subjects in Greek that trigger either a generic or an existential interpretation. Null arbitrary subjects in Greek are permitted with 2SG, 1PL and 3PL verbal agreement. The synergy between imperfective marking alongside a clause-initial XP (overt or null) results in genericity, whereas perfective marking alongside an overt or covert clause-initial XP corroborates an existential reading. Moreover, the difference between a 2SG generic reading vs. a 2SG referential one amounts to the absence vs. the presence of a D-feature (= [DEFINITE]) on the verbal agreement morpheme/inflection (i.e. empty [D] vs. specified [D]-marked verbal agreement). Contra Alexiadou and Anagnostopoulou (1998), V-T movement is unable to delete the D-feature of the EPP on T in these arbitrary constructions. Instead, both generic and existential constructions satisfy the EPP in a uniform manner; an XP (overt or covert) merges on SpecTP and satisfies the D-feature of the EPP, whereas movement of the verb to T satisfies the remaining agreement feature bundle of T. It is further postulated that the defective verbal morphology of these constructions also satisfies an *Arb-gen* or an *Arb-ex* feature through movement to AspP.

Keywords: existential, generic, null arbitrary, D-feature, EPP.

1 Introduction

The issue of lexically overt and lexically null arbitrary constructions has been explored by a number of authors for various languages; among others, D'Alessandro and Alexiadou (2002), D'Alessandro (2007), Chierchia (1995), Cinque (1988) and Manzini (1986) have dealt with Italian *si* and

¹ I wish to thank one of the anonymous reviewers for their insightful and constructive comments. Needless to say, all errors and interpretations are entirely my own.

34 arbitrary *pro*, Suñer (1983) with *se* in Spanish, Egerland (2003a, 2003b)
 35 with Swedish *man* and arbitrary *pro*, Zobel (2016) with German *man*,
 36 Cabredo Hofherr (2003) with French *on*, Jaeggli (1986) with the
 37 interpretation of English *one*, and Sigurðsson and Egerland (2009) have
 38 written about Icelandic *maður*. The bulk of the literature focuses not only
 39 on overt arbitrary pronouns such as *si* in Italian, but also on implicit
 40 arbitrary pronouns that receive either a generic or an existential
 41 interpretation.²

42 Languages employ various techniques to encode an arbitrary
 43 reading. Turning our attention to Greek, Contoravdi (1987, 1989a) and
 44 Spyropoulos (2002) are the only two accounts that discuss null arbitrary
 45 subjects in Greek and only in relation to 3PL agreement. Contoravdi (1987)
 46 provides the following examples:

47

48 (1) *pro*_{arb-ex}³ *skotosan* *ton* *Yani*.
 49 kill.PST.PFV.3PL the.ACC Yani.ACC
 50 ‘They killed Yani’

51

52 (2) *S* *afti* *ti* *filaki* *pro*_{arb-gen} *skotonun* *tus*
 53 in this the prison kill.PRS.IPFV.3PL the.ACC
 54 *filakismenus*.
 55 prisoners.ACC
 56 ‘In this prison they kill the prisoners’

² The terminology employed on the phenomenon of overt and null arbitrary pronouns varies extensively. D’Alessandro and Alexiadou (2002) and Egerland (2003a) opt for the umbrella term ‘impersonal’ to capture both the generic and the existential variants of these arbitrary constructions. Others use the term ‘impersonal’ in a more narrow fashion (i.e. for existential quantification only), see Spyropoulos, 2002. In this paper I will employ the cover term ‘arbitrary’ to include both generic and existential implicit subject pronouns.

³ I will use standard literature terminology (see Contoravdi, 1987, 1989a, among others) where *pro* is labeled *arb* for both its generic and its existential use. Nevertheless, for reasons of accuracy, I will use the following typological conventions: *pro*_{arb-gen(eric)}, *pro*_{arb-ex(istential)} and *pro*_{ref(erential)}. For a different typology, see Cabredo Hofherr (2006) who introduces the following types of *pro*: *deictic* (1st and 2nd person null pronouns), *anaphoric* (3rd person null pronouns with a full set of ϕ -features), and *non-anaphoric pro* (3rd person agreement without a full set of ϕ -features).

57

58 (3) *proarb-gen den servirun ti supa*

59

60 not serve.PRS.IPFV.3PL the.ACC soup.ACC

61 *prin to psari*

62 beforethe.ACC fish.ACC

63 'They don't serve the soup before the fish'

64

65 (Condoravdi, 1987:20)

66

67 (1) has an existential interpretation, whereas (2) and (3) a generic one.

68 Broadly speaking these arbitrary constructions are non-referential and

69 non-definite, as they do not identify a specific individual that fulfils the

70 description of what the predication is about. However, null arbitrary

71 subjects in Greek are not only encountered with 3PL verbal agreement, as

72 discussed by Contoravdi (1987, 1989a) and Spyropoulos (2002). In reality,

73 arbitrary readings are also possible with 1PL, and 2SG in Greek, an

74 empirical observation that has gone unnoticed in the literature.

75 More specifically, the null arbitrary subject pronouns that I will

76 investigate in this paper are exemplified in (4) - (6). In (4) the verb is

77 marked with 1PL agreement and the interpretation is generic:

78

79 (4) *Stin Elada prota proarb-gen vrizume ke*

80 in.the Greece first insult.PRS.IPFV.1PL and

81 *meta proarb-gen zitame signomi.*

82

83 then ask.PRS.IPFV.1PL apology

84 'In Greece, one insults first and apologises after' (after an incident

85 of road rage by a lorry driver)'

86

87 In (5) the verb is marked with 2SG and the sentence also encodes a

88 generic reading, (i.e. *whoever is born rich is privileged*):

89

90 (5) *Ean proarb-gen ise plusios, tote proarb-gen ise*

91 if are.PRS.2SG rich then are.PRS.2SG

92 *pronomiuhos.*
 93 privileged
 94 ‘if you are rich, then you are privileged/A rich person is privileged’
 95

96 In (6) the verb is marked with 3PL and encodes a generic reading, namely
 97 that *Greek people work until the age of 65*:

98
 99 (6) *Stin Elada proarb-gen dulevun/ergazonte mehri ta 65.*
 100 in.the Greece work.PRS.IPFV.3PL until the 65
 101 ‘In Greece, they/people work until the age of 65’
 102

103 Before I begin to investigate the properties of these null arbitrary
 104 constructions it is essential to mention that Greek also possesses two
 105 overt generic pronouns; *kanis*⁴ and *o alos*⁵. When *kanis* is used as a
 106 generic pronoun the verb is always marked with 3SG agreement and the
 107 interpretation is always generic, never existential:⁶

⁴ The forms of the pronoun *kanis* that we encounter in Greek are: *kanis*= masc, *kamia*=fem, and *kanena*=neuter. In the generic use of *kanis* only the masculine pronoun is used:

(i) **Sta komotoria pigeni kamia apo varemara*
 to.the hair-salons go.PRS.IPFV.3SG one.NOM.FEM of boredom
 ‘A woman goes to the hair salons out of boredom’

⁵ The forms of the pronoun *o alos* that we encounter are: *o alos*=masc, *i ali*=fem, *alo*=neuter.

⁶ *Kanis* is a pronoun that receives either the reading of *no one* (*any* for Giannakidou,1998) or *one*. Relative to the first meaning, *kanis* can also function as a quantifier/modifier to a noun, as shown in (i):

(i) *Kanis anthropos de theli fasaries.*
 no.NOM man.NOM not want.PRS.IPFV.3SG trouble.ACC
 ‘No one wants trouble’

(ii) *De thelo kanenan sto spiti mu.*
 not want.PRS.IPFV.1SG no one.ACC in.the house of.my
 ‘I don’t want anyone in my house’

108

109 (7) *Stin Elada ergazete kanis mehri ta 65.*
 110 in.the Greece work.PRS.IPFV.3SG one.NOM until the 65
 111 ‘In Greece, one works until the age of 65’

112

113 On a par with *kanis, o alos*,⁷ also occurs with 3SG marking on the verb and
 114 encodes a generic, not an existential reading:

115

116 (8) *Teties meres o alos de theli*
 117 these days the.NOM other.NOM not want.PRS.IPFV.3SG
 118 *episkepsis.*
 119 visits.ACC
 120 ‘On days like these people/one does not want visitors’

121

122 The generic pronoun *o alos* can also appear in the plural in which case the
 123 verb is marked with 3PL, though this occurs more rarely:

Kanis ‘no one’ functions as a negative polarity item (NPI) that gets licensed in the presence of negation. More specifically, in (i) *kanis* is an *affective polarity item/API*, whereas in (ii) *kanenan* is a *negative polarity item/NPI*, the terminological distinction is attributed to Giannakidou (1998) where the reader is referred for more detail on *kanis* as an NPI vs. API. The uses of *kanis* in (i) and (ii) fall beyond the scope of this paper.

⁷ There is one more use of *o alos*, whereby the pronoun translates as ‘the other person’ and *o alos* modifies the NP *ipopsifios* ‘candidate’:

(i) *O alos ipopsifios den prolave na*
 the.NOM other.NOM candidate.NOM not manage.PST.PFV.3SG to
apadisi stis erotisis.
 answer.PST.PFV.3SG the.ACC questions.ACC
 ‘The other candidate did not manage to answer the questions’

On the other hand, *o alos* can also be used without an NP to indicate an individual that the speaker and hearer do not want to refer to by name:

(ii) *O alos ute to krevati tu den*
 the.NOM other.NOM not the bed of.his not
estrose.
 tidy.PST.PFV.3SG
 ‘He (i.e. Yanis) did not even tidy up his bed today’

In (i) and (ii) *o alos* functions as a personal/definite pronoun and therefore will not be examined in here.

124

125 (9) / *ali kanun afto pu*
 126 the.NOM other.NOM do.PRS.IPFV.3PL this that
 127 *tus volevi.*
 128 them.ACC.CL suit.PRS.IPFV.3PL
 129 ‘People do what suits them’

130

131 In this paper I will focus on the properties of null arbitrary subject
 132 constructions, and I will touch on overt generic pronouns towards the end
 133 of the paper as supplementary evidence that support the analysis put
 134 forward in section 3.⁸

135 Before I begin to investigate the distribution and syntax of these
 136 implicit arbitrary subjects, it is essential to mention that Greek arbitrary
 137 generic readings may also be encoded in middle and passive
 138 constructions, as shown in (10) and (11) respectively (see Condoravdi,
 139 1989b; Lekakou 2004, 2005, 2006, 2008; Sioupi 1997, 1998, 1999; Tsimpli,
 140 1989, among others):

141

142

143 (10a) *To kalo kراسi pinete efkola.*⁹

⁸ Greek also possesses a generic arbitrary *pro* in object position. For instance, 3SG generics are possible:

(i) *To kolibi kurazi proarb-gen.*
 the.NOM swimming.NOM tire.PRS.IPFV.3SG
 (ton anthropo/ton kolimviti)
 (the human/the swimmer.ACC)
 ‘Swimming is tiring’

(i) has a [+HUMAN] null object (*proarb-gen*). Cinque (1988) and Egerland (2003a) as well as Tsimpli and Papadopoulou (2006: 1599) argue that arbitrary objects can only be generic not existential. An analysis of null *proarb* objects in Greek falls beyond the scope of this paper.

⁹ Condoravdi (1989b), Lekakou (2005), McConnell-Ginet (1994), and Tsimpli (1989), *inter alia*, show that middles require a manner adverb in order to be interpreted generically. For a detailed comparative treatment of middles and their requirement for adverbs of manner, see Lekakou (2006) who shows that middles in English, Dutch, and German obligatorily

144 the.NOM good.NOM wine.NOM drink.3SG easily
 145 ‘One can easily drink good wine’
 146
 147 (10b) *Ta paramithia diavazode se mikres*
 148 *ilikies.*
 149 the.NOM fairy-tales.NOM are-read.3SGin young ages
 150 ‘Fairy tales are read at a young age’
 151

152 (11) *Poles perusies katastrafikan sto deftero*
 153 many properties destroy.NACT.3PL in.the second
 154 *pagosmio.*
 155 world-war
 156 ‘A lot of properties were destroyed in the second world-war’
 157

158 Interesting as (10) and (11) may be, this paper will not deal with middle
 159 and passive arbitrary constructions.

160 Empirically, the focus of this paper is to demonstrate that the
 161 phenomenon of null arbitrary subjects in Greek is a lot more widespread
 162 than has been previously assumed, as null arbitrary subjects are permitted
 163 not only with 3PL verbal agreement, but also with 2SG and 1PL. In Section 2,
 164 I present evidence and examine each of these arbitrary constructions
 165 individually. On the basis of the data investigated in sections 2.3- 2.5 it is
 166 further shown that imperfective marking is typically associated with
 167 genericity, whereas perfective marking is associated with an existential
 168 interpretation (see also Cinque, 1988; Contoravdi 1989a, 1989b;
 169 D’Alessandro and Alexiadou, 2002; Giannakidou, 1998; Spyropoulos, 2002;
 170 Tsimpli and Roussou, 1996, *inter alia*). The empirical observations in this
 171 paper lead me to propose that there is an additional tool that assists a
 172 generic and an existential reference, the use of a clause initial locative (or
 173 temporal) XP (see Brody, 2013; Cabredo Hofherr, 2003; Holmberg and
 174 Phimsawat, 2015, among many others). These XPs designate a specific
 175 location or a particular time where (or during which) the event takes place.

require a manner adverb, whereas middles in Greek and French do not impose such a strict requirement, as shown by the Greek middles in (10a) vs. (10b).

176 Following Alexiadou and Anagnostopoulou (1998) and Holmberg
177 (2000, 2010), I take Greek T to invariably possess a D-feature which I take
178 to correspond to a [DEFINITE] feature. Conceptually, I argue that even
179 though the inflectional ending of the verbal morpheme of a 2SG generic
180 arbitrary reading is polysemous with the inflectional ending of the verbal
181 morpheme of a 2SG referential reading, the two differ in the featural
182 composition of their person feature. Adopting a geometrical feature
183 analysis, such as those advocated by Carvalho (2017) and Harley and
184 Ritter (2002), I explain the relationship that holds between a person
185 feature and a D-feature. More specifically, I argue that the person feature
186 is further decomposed into two more features; a [PARTICIPANT] and a [D]
187 feature. The [PARTICIPANT] feature is broken down to a [SPEAKER] and an
188 [ADDRESSEE] feature, whereas the [D] feature is further decomposed to a
189 [DEFINITE] and a [SPECIFIC] feature. When the [DEFINITE] feature is present,
190 then 2SG results in a referential interpretation, whereas when [D] is empty,
191 the verbal agreement does not encode D to delete the D-feature of the
192 EPP on T. [D] remains empty in both existential and generic constructions.
193 To account for the non-D-marked verb in Greek null arbitrary
194 constructions, I argue that the clause-initial XP (overt or covert) bears a
195 D-feature, merges on SpecTP, and deletes the D-feature of the EPP. Verb-
196 raising can satisfy the remaining bundle of agreement features on T.

197 Based on Collins (2018), I dispense with a null generic (and
198 existential) operator in syntax. Instead, I put forward that in these arbitrary
199 constructions the Aspectual Projection carries an additional *Arb(itrary)*
200 feature. In the case of the imperfective the feature is *Arb-gen*, whereas in
201 the case of a perfective AspP, Asp carries an *Arb-ex* feature. This *Arb*
202 feature is present only when [D] of the verbal morphology is devoid of any
203 content, as is the case in these arbitrary constructions. This
204 uninterpretable *Arb* feature is also coupled with an EPP feature. The *Arb*
205 feature probes the verb and the verb raises from V-v- Asp to satisfy this
206 *Arb/EPP* feature. The verb then moves further up to T to delete the feature
207 bundle available on T. This *Arb* feature on AspP is not present when the
208 verbal morphology is fully specified (i.e. the [DEFINITE] feature is present).
209 However, we still encounter instances of *mismatch*; constructions in which

210 the imperfective licenses an existential interpretation. I take such a
211 mismatch between the imperfective and an existential arbitrary reading to
212 be resolved post-syntactically, as a result of *coercion* (see Borer, 2005;
213 Chierchia, 1998; Collins, 2018, *inter alia*).

214 To conclude, I tentatively assume that the analysis proposed here
215 can be extended to the overt generic pronouns; *kanis* and *o alos* that occur
216 with 3SG or 3PL (i.e. as in the case of *i ali* ‘the others’) verbal agreement.
217 The indefinite pronoun *kanis* always occurs post-verbally alongside the
218 imperfective and a clause-initial XP. This XP, as is the case with the rest
219 of the null generic arbitrary constructions, satisfies the EPP. Conversely,
220 the indefinite pronoun *o alos* is structurally preferred in a pre-verbal
221 position, occupies SpecTP, but as an indefinite pronoun it does not bear a
222 D-feature and is not capable of deleting the D-feature of the EPP. Instead,
223 assuming that the TP projects multiple specifiers, a covert XP is merged
224 on the outer specifier of TP and satisfies the D-feature of the EPP,
225 whereas the indefinite pronoun *o alos* occupies inner SpecTP. In these
226 constructions, verb movement satisfies the agreement feature bundle
227 available on T.

228 This account is unique in the following respects: (i) it brings into
229 focus evidence from null arbitrary constructions (i.e. 2SG, 1PL) that have
230 not been reported elsewhere in the literature of Greek, (ii) it shows that
231 the difference between a generic 2SG and a referential 2SG lies in the
232 absence vs. presence of a [DEFINITE] feature on the verb, an assumption
233 that (iii) goes against Alexiadou and Anagnostopoulou’s (1998) account
234 where V-T movement in Greek always satisfies and deletes the D-feature
235 of the EPP on T, (iv) it highlights the importance of an XP (overt or covert)
236 primarily in generic arbitrary constructions, but also in existential arbitrary
237 structures, and finally, (v) it dispenses with null generic and existential
238 operators in syntax by incorporating an *Arb* feature in the course of the
239 syntactic derivation.

240 The article is organised as follows. In Section 2, I first outline Cinque’s
241 (1988) prototypical properties associated with a quasi-universal and a
242 quasi-existential arbitrary interpretation and establish whether these
243 properties hold true for Greek null arbitrary constructions. In the same

244 section the Greek data is discussed in some detail. The data show that null
245 arbitrary subjects in Greek are more liberal than previously discussed in the
246 choice of the verbal agreement (1PL, 2SG, 3PL). The evidence also reveals
247 that, structurally, the imperfective and the XP work synergistically to license
248 a generic interpretation, whereas the perfective alongside an overt (or
249 covert) XP licences an existential one. Section 3 offers an analysis of these
250 null arbitrary constructions. First, I examine the role of this XP and then I
251 move on to analyse the featural differences between a polysemous 2SG
252 generic and a 2SG referential verbal morpheme. I further attribute the
253 distinct arbitrary readings to the presence of an *Arb-gen* or an *Arb-ex* feature
254 on AspP and I show how these features are satisfied. Section 3.5 briefly
255 discusses overt generic pronouns (i.e. *kanis* and *o alos*) and shows that the
256 analysis proposed could be extended to also cover these constructions. On
257 a par with null arbitrary constructions, the person feature of the verbal
258 morphology in these overt generic pronouns has an empty [D] feature, that
259 is, it does not encode the [DEFINITE] feature that is necessary to satisfy the
260 EPP. Instead, as with null arbitrary constructions, an XP merges on SpecTP
261 to satisfy the EPP.

262 The next section discusses the criteria proposed by Cinque (1988)
263 to distinguish a quasi-universal from a quasi-existential arbitrary reading.
264 For reasons of simplification (and accuracy) I will replace the terms quasi-
265 existential and quasi-universal with the terms existential and generic,
266 respectively (cf. Contoravdi 1987, 1989a; D’Alessandro and Alexiadou,
267 2002, among others).¹⁰

268

269

270 **2 The Greek data**

¹⁰ I am not equating the two types of quantification here (i.e. universal (\forall) = generic quantifier (GEN), that would be naïve, see Moltmann, 2006 for a distinction between universally and generically quantified sentences. Krifka et al (1995: 5) argue that generically quantified sentences ‘allow for exceptions’, whereas universally quantified ones do not, as they should apply to every such situation as the one described by the predicate. For instance, in the characterizing (generic) sentence: *Cretans eat a lot* it does not mean that every single Cretan eats a lot (see Krifka et al, 1995:44). This is just one of the reasons why I am opting for the term generic rather than universal.

271 **2.1 Cinque's criteria (1988)**

272

273 According to Cinque (1988:545) the generic and existential interpretations
274 are variants of the same unitary phenomenon, that of an arbitrary
275 reading.¹¹ The generic reading presupposes a generic quantifier and
276 corresponds to an interpretation such as: *one, you, or people*. Conversely,
277 the existential reading corresponds to existential quantification and
278 presupposes the existence of at least one person that fits the description
279 of what the predication is all about, i.e. *some people*, etc. Roughly, Cinque
280 (1988) proposes the following characteristics that distinguish a generic
281 from an existential interpretation.

282 The Generic/ Gen (\forall in Cinque's terms) interpretation has the
283 following characteristics:

284 (12)

285 a. it seems to be associated with an inherent plural (i.e. a number of
286 individuals fit the description of what the predication is all about). It
287 is not compatible with one specific individual that fits the
288 description.

289 It roughly corresponds to an interpretation of *you* (2SG), *one, or*
290 *people*

291 b. it is typically [+HUMAN].¹²

292 c. there are no predicate restrictions observed and is not restricted to
293 an external argument (i.e. we also encounter generic object
294 pronouns, see footnote 8).

¹¹ Cinque (1988: 545, fn 27) acknowledges that the interpretation of arbitrary sentences as quasi-universal or quasi-existential depends on the tense and aspect of the verb. On the other hand, accounts such as those by D'Alessandro and Alexiadou (2002) attribute systematically the differences between a generic and an existential *si* to the change of aspect. According to their account, the imperfective gives rise to a generic reading, whereas the perfective to an existential one. On top of aspect, Spyropoulos (2002) also credits tense for the alternation between the two readings. Essentially Cinque (1988) is advocating the same thing, but does not make aspect a pivotal element of his analysis (see also Comrie, 1976, 1985). For the opposing view which dissociates imperfectivity and tense from genericity, see Filip and Carlson, 1997.

¹² Moltmann (2006) argues that it is more generally 'conscious beings' rather than humans only that generic *one* refers to.

295 d. it does not permit specific time reference (e.g. present or past
296 perfective), but instead favours generic time reference.

297

298 On the other hand, the arbitrary existential (\exists) interpretation is
299 characterised by the following properties:

300 (13)

301 a. It is legitimate with a single individual who fits the description. It
302 roughly corresponds to an interpretation of *they, some people*.

303 b. it is typically [+HUMAN].

304 c. It is restricted to subject pronouns and it is usually attested with
305 transitive and unergative verbs.¹³

306 d. It permits specific time reference (e.g. past perfective).

307

308 In sections 2.3- 2.5 I present the properties of each null arbitrary
309 construction in Greek individually (i.e. 1PL, 2SG, and 3PL) and establish
310 whether these observe Cinque's criteria. However, as null arbitrary
311 subjects in Greek are not only encountered with 3PL verbal agreement, but
312 also manifest with 1PL, and 2SG verbal agreement, this paper further seeks
313 to answer the following questions:

314 a. Given that a 2SG arbitrary reading bears the same inflectional
315 marking with the verbal agreement of a 2SG referential reading and
316 these two differ in their person featural composition (i.e. a 2SG
317 arbitrary lacks a [DEFINITE] feature, whereas a 2SG referential does
318 not), what satisfies the D-feature of the EPP in these arbitrary
319 constructions?

320 b. Does different aspectual marking (i.e. imperfective vs. perfective)
321 systematically result in distinct arbitrary readings (i.e. generic vs.
322 existential)?

¹³ Cinque (1988) and Egerland (2003a) use the term 'ergative' to refer to unaccusative verbs. I distinguish between unergative and unaccusative verbs here and I assume that unergative verbs assign an external theta-role (i.e. an agent). On the other hand, the nominal in unaccusatives is not an external argument but a deep object (Burzio, 1986) and should really occupy SpecvP.

323 c. What is the role of the XP that consistently appears clause-initially
324 in (4) and (6)? Is it always required in null arbitrary constructions?

325

326 It is now time I examined each of these Greek arbitrary constructions (i.e.
327 1PL, 2SG, and 3PL) individually.

328

329 **2.2 The Greek Data; The Prelude**

330

331 **2.3 1PL *proarb***

332

333 A generic reading can be encoded with 1PL verb agreement:

334

335 (14) *Prota proarb-gen/ex tsigarizume to kremidi*
336 first sauté.PRS.IPFV.1PL the.ACC onion.ACC

337 *ke meta proarb-gen/ex prosthetime to*

338 and then add.PRS.IPFV.1PL the.ACC

339 *maidano.*

340 parsley.ACC

341 'First one should/we sauté the onions and then add the parsley'

342

343 (14) may appear in a cooking book or in a cooking blog in which case, as
344 the writer is not necessarily the participant but is instructing his
345 readership, then (14) yields a generic interpretation. However, (14), may
346 also be interpreted existentially if the sentence is uttered by a chef who is
347 cooking in a TV show at the same time as giving instructions to his
348 audience. In this case, the existential reading of (14) is speaker-inclusive
349 (see D'Alessandro and Alexiadou, 2002; Egerland, 2003a, among others).
350 However, specific time reference (i.e. past perfective) cancels the generic
351 interpretation of (14) and results in an existential interpretation:

352

353 (15) *Prota proarb-ex/ref tsigarisame to kremidi*
354 first sauté.PST.PFV.1PL the.ACC onions.ACC

355 *ke meta proarb-ex/ref prothesame to*

356 and then add.PST.PFV.1PL the.ACC

357 *maidano.*
 358 parsley.ACC
 359 ‘First we sautéed the onions and then added the parsley’

360
 361 The interpretation of (15) is: *there is an x, x a set of people (i.e. including*
 362 *the speaker), and x carried out y, y being sauteeing onions and adding*
 363 *parsley.* (15) may also ensue a referential interpretation if the
 364 speaker/presenter had a very specific team cooking with him (i.e.
 365 comprising five people) and the verb refers to the members of this team
 366 only.

367 1PL *pro* can also receive a generic interpretation in contexts other
 368 than those in (14). Let us assume that (16) is uttered by an angry
 369 spectator as a response to emergency TV news which just announced an
 370 incident of mass shootings in the US:

371
 372 (16) *Stin Ameriki prota proarb-gen skotonume*
 373 in.the States first kill.PRS.IPFV.1PL
 374 *ke meta proarb-gen zitame signomi.*
 375 and then ask.PRS.IPFV.1PL apology.ACC
 376 ‘In the States, people kill first and then apologise’

377
 378 Cinque (1988) associates an existential reading with transitive and
 379 unergative predicates that license an external argument rather than with
 380 unaccusatives that do not. These assumptions are not always borne out in
 381 Greek, as the unaccusative verb *vrazo* ‘boil’ can also trigger an existential
 382 reading:

383
 384 (17) *Stin Athina proarb-gen/ex vrazume apo ti zesti to*
 385 in.the Athens melt.PRS.IPFV.1PL from the heat the
 386 *kalokeri.*¹⁴
 387 summer
 388 ‘During summer, in Athens, one melts/we melt from the heat’

389

¹⁴ The example is adapted from Spyropoulos (2002).

390 If the speaker is a resident of Athens, then (17) ensures an existential
 391 reading, as he also includes himself as one of those people who
 392 experience the extreme Athenian heat. However, one can also imagine a
 393 context where the speaker is not a resident of Athens, but his foreign
 394 audience is only familiar with Athens and not many other places in Greece,
 395 so he utters (17). In the second scenario, (17) yields a generic reading.

396 Further, an unergative verb such as *dulevo* ‘work’ in combination
 397 with past perfective marking on the verb, may result in an existential
 398 interpretation:

399

400 (18) *(Stin Ameriki) proarb-ex dulepsame poli ke proarb-ex*
 401 (in.theStates) work.PST.PFV.1PL a.lot and
 402 *kerdisame liga.*
 403 earn.PST.PFV.1PL little
 404 ‘(In the States) we worked a lot and earned a little’

405

406 Let us assume that (18) is uttered by a narrator of a documentary on
 407 Greek diaspora in the States. In this case, the reading of (18) is existential
 408 (speaker inclusive). The rest of the referents are unspecified or
 409 represented by the broader set of all Greek diaspora in the States.

410 Without the continuing clause, (19) would have either a generic or
 411 an existential interpretation depending on the context. However, the
 412 addition of the continuing clause below, which identifies at least one
 413 individual who fits the description of the predicate, turns the interpretation
 414 of (19) into an existential one:

415

416 (19) *Stin Elada proarb-ex dulevume aplos gia na*
 417 in.the Greece work.PRS.IPFV.1PL simplyfor to
 418 *proarb-ex epivionume. Mera beni mera*
 419 survive.PRS.IPFV.1PL.Day come.PRS.IPFV.3SG day
 420 *vgeni afto kani o Manolis.*
 421 go.PRS.IPFV.3SG this do.PRS.3SG the.NOM Manolis.NOM
 422 ‘In Greece we work simply to survive. Day in day out, this is what
 423 Manolis does.’

424

425 In (20), we can have a generic and an existential reading which is
426 introduced inferentially along the lines of an overt or covert XP such as *se*
427 *afti ti zoi* ‘in this life’:

428

429 (20) *Kalo ine na proarb-gen/ex xerume pote*
430 good is to know.PRS.IPFV.1PL when
431 *ginomaste kurastiki.*
432 become.PRS.IPFV.1PL tiresome
433 ‘It is good to know when one becomes tiresome’

434

435 Summarising the data discussed above, 1PL is generic when the verb
436 appears in the imperfective and when there is no single individual who fits
437 the description. With 1PL there is normally an XP clause-initially, but this is
438 not necessarily overt, as this XP may be presupposed as part of previous
439 discourse (i.e. covert XP), as in (20). 1PL manifests an existential reading
440 that tends to include the speaker when the verb is marked with past
441 perfective, as in (18), or when the verb is marked with present
442 imperfective and there is a continuing clause that mentions at least one
443 individual that fits the description, as in (19). In addition, an existential
444 reading is not as constrained in its predicate choices as assumed in
445 Cinque (1988), given that it may also occur with an unaccusative see (17).

446

447 **2.4 2SG *proarb***

448

449 An arbitrary reading can also be encoded with 2SG verbal agreement.
450 Cinque (1988) alongside others takes the 2SG implicit arbitrary *pro* as
451 being associated with a generic reading. This is borne out in Greek:

452

453 (21) *Se afti ti laiki proarb-gen psonizis*
454 in this the open-market shop.PRS.IPFV.2SG
455 *fthina.*
456 cheaply
457 ‘In this open market one shops cheaply’

458

459 Nevertheless, (21) becomes ungrammatical if the locative PP is missing
460 unless the topic (i.e. the locative PP) has been introduced in previous
461 discourse (i.e. if someone asks why do you keep coming back to this food
462 market again and again) and the PP is covert, then the answer could be
463 V1, as in (22):

464

465 (22) (*Se afti ti laiki*) *proarb-gen* *psonizis*

466 (in this the open-market)

467 shop.PRS.IPFV.2SG

468 *fthina.*

469 cheaply

470 'In this open market one shops cheaply'

471

472 (22) cannot survive as a generic with the omission of the locative PP.

473 Contra Cinque's criteria, my informants take (23) to maintain its generic
474 interpretation despite the continuing clause that identifies at least one
475 individual who fits the description:

476

477 (23) *Se afti ti laiki* *proarb-gen* *psonizis*

478 in this the open-market shop.PRS.IPFV.2SG

479 *fthina.* *I* *Maria,* *gia* *paradigma,*

480 cheaply. the.NOM Maria.NOM for example

481 *erhete* *taktika.*

482 come.PRS.IPFV.3SG often

483 'In this open market one shops cheaply. Maria, for example, comes
484 often'

485

486 Past perfective marking on the verb results in a specific reading only:

487

488 (24) (*Se afti ti laiki*) *proref* *psonises* *fthina.*

489 (in this the open-market) shop.PST.PFV.2SG

490 cheaply

491 'In this open market you shopped cheaply'

492

493 As predicted by Cinque (1988) past imperfective marking on the
 494 unaccusative verb *liono* ‘melt’ can result in a generic reading, if someone
 495 describes, for example, what the Greek school system is like, then part of
 496 the narration could include (25):

497

498 (25) *Stis paneladikes proarb-gen/ref eliones sto*
 499 in.the Greek-exams melt.PST.IPFV.2SG in.the
 500 *diavasma.*
 501 studying

502 ‘During the final Greek exams one/you would study until you
 503 dropped’

504

505 However, (25) can also be referential if two friends reminisce about their
 506 final school days and the one who worked particularly hard jokingly asks
 507 the other ‘was I a hard working student?’. In this case the XP is not
 508 required, the speaker can simply respond with a V1 order (i.e. *eliones sto*
 509 *diavasma*). Conversely, when the verb appears in the past perfective, then
 510 only a referential interpretation is possible:

511

512 (26) (*Stis paneladikes*)*proref elioses sto*
 513 *diavasma.*
 514 in.the Greek-exams melt.PST.PFV.2SG in.the studying
 515 ‘During the final Greek exams you studied until you dropped’

516

517 The data above show that in 2SG agreement, a generic reading arises only
 518 when the verb appears in present or past imperfective and there is an XP
 519 clause-initially, overt or implicit. Conversely when the verb appears in the
 520 past perfective, then the interpretation that ensues is only referential. As
 521 predicted by Cinque’s criteria, Greek arbitrary *pro* presupposes reference
 522 to humans that fit the description of what the predicate is about. More
 523 specifically, the interpretation of the 2SG *pro* in (25) is either generic, or
 524 referential. The evidence above shows that in 2SG agreement, a generic
 525 reading arises only when the verb appears in the imperfective and there is
 526 an XP clause-initially, overt or implicit.

527

528 **2.5 3PL *proarb***

529

530 In this section we look into the properties of *proarb* where the verb is
531 marked with 3PL agreement. 3PL agreement has been noted to be arbitrary
532 in a number of languages (see Cinque, 1988; Contoravdi 1987, 1989a;
533 Holmberg, 2010; Spyropoulos, 2002, among others):

534

535

536 (27a) *Stin Kriti proarb-gen trone saligaria.*

537 in.the Crete eat.PRS.IPFV.3PL snails.ACC

538 'In Crete they eat snails'

539

540 In (27a) the generic quantifier gives rise to the interpretation where: *it is*
541 *generally/typically/usually the case that X, X being Cretan people, X*
542 *usually/typically eat Y, Y being snails.* (27a) cannot be interpreted
543 generically if the XP is omitted. Without the XP, the only interpretation of
544 (27a) is referential (i.e. there is a group of people and this group eats
545 snails). (27a) would retain the same generic interpretation if the XP was
546 replaced by a subject (i.e. subjects as kinds) such as *i kritiki* 'the Cretans':

547

548 (27b) *I kritiki trone saligaria.*

549 the.NOM Cretans.NOM eat.PRS.IPFV.3PL snails.ACC

550 'The Cretans/Cretan people eat snails'

551

552 Cinque (1988: 546) predicts that any continuing clause identifying a
553 single individual who fits the description cancels out the generic reading, a
554 prediction that is not borne out in (28). Despite adding *i Maria* as a
555 specific individual who fits the description of the predicate, the first part
556 still remains generic (i.e. *It is generally true that Cretans eat snails, among*
557 *those who eat snails, Maria is one of them*):

558

559 (28) *Stin Kriti proarb-gen trone saligaria.*

560 in.the Crete eat.PRS.IPFV.3PL snails.ACC

561 *I Maria molis efage ena piato.*

562 the.NOM Maria.NOM just eat.PST.PFV.3SG a.ACC plate.ACC
 563 'In Crete they eat snails. Maria just had a plate'

564

565 It is interesting to note, however, that if we alter the aspect of (28) (i.e.
 566 specific time reference) to past perfective, as in (29), then the sentence
 567 can be either existential or referential:

568

569 (29) *proarb-ex/ref efagan saligaria.*
 570 eat.PST.PFV.3PL snails.ACC
 571 'They ate snails'

572

573 If (29) is uttered as a response to the question 'what did you give the kids
 574 for dinner?', then the interpretation is referential. However, (29) can also
 575 be interpreted existentially. For instance, you are entering a restaurant and
 576 there is an empty table where people have just finished eating and left.
 577 The snail shells on the empty plates indicate that they had snails for
 578 dinner. In this case (29) will be interpreted existentially.

579 A generic reading in 3PL is contingent on the XP and the
 580 imperfective aspect. The fact that the XP together with the imperfective
 581 aspect ensue a generic reading is further corroborated by (30) below. (30)
 582 results in a generic interpretation only if the XP *stin Elada* 'in Greece' is
 583 overt or implicit (i.e. has been introduced in previous discourse), as in the
 584 exchange in (31):

585

586 (30) *(Stin Elada)proarb-gen dulevun mehri ta 65.*
 587 (in.theGreece) work.PRS.IPFV.3PL until the 65
 588 '(In Greece), they/people work until the age of 65'

589

590 (31)

591 **Speaker A:** *Stin Ameriki dulevun mehri ta 67.*
 592 in.the States work.PRS.IPFV.3PL until the 67.
 593 'In the States they work until 67'

594

595 *Xeris pote pernun sidaxi*

596 know.PRS.2SG when take.PRS.IPFV.3PL retirement
 597 *stin Elada?*
 598 in.the Greece?
 599 ‘Do you know when they retire in Greece?’

600

601 **Speaker B:** *proarb-gen dulevun mehri ta 65.*
 602 work.PRS.IPFV.3PL until the 65
 603 ‘(in Greece) they work until 65’

604

605 If the XP *stin Elada* is not in the interlocutors’ immediate awareness (in
 606 Vallduví and Engdahl’s, 1996 terms), then a generic interpretation is ruled
 607 out in (30) as it would be in Speaker B’s response in (31).

608 The change of aspect in (32) does not result in ungrammaticality.
 609 Instead, (32) is interpreted existentially:

610

611 (32) *(Se afto to project) proarb-ex/ref dulepsan*
 612 (in this the project) work.PST.PFV.3PL
 613 *sklira gia na lisun to provlima.*
 614 hard for to solve.PST.PFV.3PL the.ACC problem.ACC
 615 ‘(In this project) they worked hard to solve the problem’

616

617 In (32) the perfective aspect alongside the covert XP assist an existential
 618 interpretation. However, if the interlocutors were aware of a very specific
 619 team that participated in this project, then (32) could also be interpreted
 620 referentially. In this case the XP could be absent and the sentence could
 621 exhibit a V1 order.

622 It is also interesting to note that in (33) the locative XP cannot
 623 appear clause-initially when there is an overt pronominal pronoun:

624

625 (33) *(*Stin Aglia) afti pinun poli.*
 626 in.the England they drink.PRS.IPFV.3PL a.lot
 627 ‘(In England) they drink a lot’

628

629 This suggests that the overt subject and the locative XP occupy the same
630 position in the clausal architecture or perform the same syntactic function
631 (i.e. fill SpecTP).

632 Throughout the discussion of the data I have been hinting at an
633 important observation, namely that the clause-initial XP (in collaboration
634 with the imperfective) assists a generic reading:

635

636 (34) *Stin Aglia* *proarb-gen* *pinun* *poli.*
637 in.the England drink.PRS.IPFV.3PL a.lot
638 'In England they drink a lot'

639

640 If the XP *stin Aglia* is not overt, then it will have to be presupposed and
641 therefore will be covert. For instance, if someone asks the speaker 'what is
642 your opinion of English people?' then the answer could be V1 (i.e. *pinun*
643 *poli*). If, however, the XP is entirely absent (i.e. neither overt nor covert),
644 then a generic reading does not arise.

645 Before I discuss the role of the XP, the featural make-up of the
646 verbal agreement morpheme of each arbitrary construction, EPP
647 satisfaction, as well as the role of the imperfective, let us remind ourselves
648 of the properties we have identified.

649

650

651 2.6 Interim Summary

652

653 As we have seen in sections 2.3 – 2.5 null arbitrary subjects in Greek are
654 encountered with 1PL, 2SG, and 3PL verbal agreement. Table 1 summarises
655 the different null arbitrary constructions we have encountered so far and
656 the readings that these may exhibit.

657

658

659 Table 1: Properties of null arbitrary subjects in Greek

660

661

| Word Order | Verbal Agreement | Aspect | Generic <i>pro</i> | Existential <i>pro</i> | Referential <i>pro</i> |
|--|------------------|--------------|--------------------|------------------------|------------------------|
| XP (overt or covert)-V | 1PL | imperfective | ✓ | ✓ | ✗ |
| XP (overt or covert)-V = existential, (XP)V= referential | 1PL | perfective | ✗ | ✓ | ✓ |
| XP (overt or covert)-V = generic, (XP)V= referential | 2SG | imperfective | ✓ | ✗ | ✓ |
| (XP)V | 2SG | perfective | ✗ | ✗ | ✓ |
| XP (overt or covert)-V | 3PL | imperfective | ✓ | ✗ | ✗ |
| XP (overt or covert)-V = existential, (XP)V= referential | 3PL | perfective | ✗ | ✓ | ✓ |

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

662

663

664

Based on Cinque's criteria for generics and existentials as these were

665

outlined in (12) and (13), respectively, Greek null arbitrary subjects exhibit

666

the following properties:

667

a. As predicted by Cinque (1988), the reference of both a generic and

668

an existential arbitrary reading is inherently [+HUMAN]. In addition,

669

both a generic and an existential reading refer to multiple

670

individuals (i.e. their reference is inherently [+PLURAL]).

671

b. On a par with Cinque (1988), an arbitrary generic reading is

672

available only when the verb is marked with the imperfective (i.e.

673

generic time reference) and when there is an XP clause-initially

674

(overt or covert). This requirement for an XP in Greek generics is far

675

more systematic than has been previously acknowledged in the

676

literature (see Contoravdi, 1989a; Spyropoulos, 2002).¹⁵

677

c. As shown by Cinque (1988), an existential reading usually results

678

with specific time reference (i.e. perfective marking).

679

d. In line with Cinque's observations in (12), a generic reading is

680

typically cancelled when there is a continuing clause that names at

681

least one individual who fits the description designated by the

682

predicate, as in (19), but unlike (23) and (28) which maintain their

683

genericity.

684

e. In accordance with (12), a generic reading emerges with all different

685

types of predicates (i.e. transitives, unaccusatives, unergatives, etc).

686

f. Cinque (1988) argues that an existential reading arises only with

687

transitives and unergatives. Greek existential readings largely abide

688

by this generalisation (for a counterexample, see (25), where an

689

unaccusative predicate co-occurs with an existential interpretation).

¹⁵ Contoravdi (1989a: 73, fn 4) notes the following regarding the clause-initial XPs:

"their frequent presence is a consequence of the need to make such utterances more informative by restricting the domain of quantification. The need for descriptive content is particularly important for *pro_{arb}* and *they* in their generic use since the relevant sentences express regularities about human entities directly and without any restrictions the utterance would be hopelessly uninformative."

690

691 The remainder of this paper will focus on the syntax of these null
692 arbitrary constructions. I begin with examining the role of the XP, upon
693 which an arbitrary reading is dependent.

694

695 **3. The Analysis**

696 **3.1 The Role of the XP**

697

698 The function of this locative XP¹⁶ has been examined in various studies
699 that deal primarily with word order phenomena (cf. Alexiadou, 1996, 1999;
700 Borer, 2005; Pinto, 1997; Sheehan, 2006; Zubizarreta, 1998). Most of these
701 studies agree that the XP situated clause-initially functions as a *range*
702 *assigner/stage-topic/restrictor*, that is, assigns range or restricts the event
703 expressed by the predicate to a certain place (i.e. locative adverbial) or to
704 a certain time (i.e. temporal adverbial), see Borer, 2005; Cardinaletti and
705 Stark, 1999; Spyropoulos, 2002, among others. However, previous accounts
706 of Greek null generic subjects (Contoravdi, 1989a; Spyropoulos, 2002)
707 have not offered an analysis on the role of these XPs. The present account
708 is unique in at least three ways: (a) in outlining a wide array of empirical
709 evidence unreported in previous literature, data which reveal that null
710 arbitrary subject readings in Greek are possible beyond 3PL verbal
711 agreement, (b) in acknowledging that a null generic reading in Greek is
712 contingent upon two factors; imperfective marking on the verb (as has also
713 been assumed by Contoravdi, 1989a; Giannakidou, 1998; Lekakou, 2005;
714 Spyropoulos, 2002; Tsimpli and Roussou, 1996, among others), and the
715 presence of an XP, and (c) in explaining that the featural composition of
716 the verb in arbitrary constructions is less rich than in referential ones, as
717 the person agreement in these arbitrary constructions lacks a [DEFINITE]
718 feature.¹⁷

¹⁶ I have been using mostly locative XPs avoiding temporal XPs, as these may turn the event from atelic to telic. Borer (2005), chapter 9 and Cabredo Hofherr (2006) reach a similar conclusion, namely that temporal expressions do not share the same nominal (subject-like) properties that locative expressions have.

¹⁷ See Lekakou and Pitteroff (2018) who analyse impersonal middles and identify that this 'additional modifier', as they label the manner or other adverbial PP, is required for

719 Cinque's (1988) data from Italian are very similar to the ones from
 720 Greek at least when it comes to the generic reading encoded by 3PL, but
 721 Cinque (1988) does not offer any insight into the role of this XP. (35)
 722 features a transitive, (36) an unergative, and (37) an unaccusative verb:

723

724 (35) *Li, odiano gli stranieri.*
 725 there hate.PRS.IPFV.3PL the.ACC foreigners.ACC
 726 'There, they hate the foreigners'

727

728 (36) *Qui, lavorano anche di sabato.*
 729 here work.PRS.IPFV.3PL even on Saturday
 730 'Here, they work even on a Saturday'

731

732 (37) *Qui, vanno a scoulagia a quattro*
 733 here go.PRS.IPFV.3PL to schoolwhen four years
 734 *anni.*

735

736 'Here, they go to school at the age of four'

737

738 (Cinque, 1988:545)

739 The generic interpretation of (35) – (37) is assisted by the presence of the
 740 locative adverbs *li* and *qui*. Oddly, in the absence of these clause-initial
 741 adverbs, the sentences cannot survive as V1. So, the first question we
 742 need to ask ourselves is why this is the case. It is important to remember
 743 that an XP cannot co-occur with an overt pronominal as in (33), repeated
 744 below for convenience as (38):

745

746 (38) *(*Stin Aglia) afti pinun poli.*
 747 (in.theEngland) they drink.PRS.IPFV.3PL a.lot

pragmatic reasons. Lekakou (2005) and Pitteroff (2014) among others have argued that the NP inside the PP is the logical subject, required to restrict informationally the generalization of the impersonal middle. Effectively, the pronoun and the PP are coindexed, as "the obligatory pronoun associates with the modifier, thus linking it semantically to the subject position" (Lekakou and Pitteroff, 2018:13).

748 ‘(In England) they drink a lot’

749

750 The locative XP in (38) can be replaced by the nominative subject *i Agli*
751 ‘English people’ and perform the function of a kind-referring subject, as is
752 typical in generics (see Krifka et al, 1995). Evidence that the locative XP in
753 (38) resembles a kind-denoting subject comes from the following
754 distributional observation: the locative XP cannot precede the pronoun *afti*,
755 as the two compete for the same position (i.e. SpecTP), but it can directly
756 follow the pronominal *afti* (i.e. *afti stin Aglia*). This indicates that these
757 overt or covert locative XPs in generics have a nominal character, or else
758 appear to display subject-like properties (cf. Cabredo Hofherr, 2006).
759 Although this is less obvious in existentials, I assume that these XPs have
760 a nominal ‘flavour’ in all Greek arbitrary constructions. Their nominal
761 character corroborates the fact that these XPs also bear a D-feature which
762 can satisfy the EPP on T.

763 Holmberg (2010) investigates the null generic subject pronoun in
764 Finnish and shows that this does not have enough lexical content to be of
765 the referential type that *pro* of the null subject type is. Even though the
766 Finnish generic pronoun triggers 3SG subject agreement, is assigned
767 nominative case, has ϕ -features as well as a [+HUMAN] feature, due to the
768 lack of lexical content (behaves like an indefinite NP rather than a DP) it
769 remains at SpecvP and is invisible to the EPP. This is the reason why
770 generic sentences in Finnish require an XP to appear clause-initially, as in
771 (40). In the absence of a locative XP, an expletive merges there to satisfy
772 the EPP, as in (41):¹⁸

773

774 (39) **Istuu* *mukavasti tässä.*

775 sit.PRS.IPFV. 3SG comfortably here

776 ‘One sits comfortably here’

777

778 (40) *Tässä istuu* *mukavasti.*

779 here sit.PRS.IPFV.3SG comfortably

¹⁸ In Holmberg and Nikanne (2000) this tendency for the first position to be filled was attributed to the topic status of Finnish.

780 'One sits comfortably here'

781

782 (41) *Sitä istuu mukavasti tässä.*

783 EXPL sit.PRS.IPFV. 3SG comfortably here

784 'One sits comfortably here'

785

786 (Holmberg, 2010: 204)

787

788 According to Holmberg (2010) a null generic pronoun marked with
789 3SG person agreement (or 3PL in other languages) is in complementary
790 distribution with a 3SG (or 3PL) referential *pro*. More specifically his
791 analysis makes the following predictions: (i) in partial pro-drop languages
792 like Finnish and Brazilian Portuguese there is a null generic pronoun with
793 3SG, but 3SG cannot also have a null definite subject pronoun unless this is
794 logophorically bound extra sententially (i.e. across sentences), conversely
795 (ii) in consistent null subject languages such as Greek and Italian, 3SG or
796 3PL verbal agreement permits a null definite pronoun, but 3SG or 3PL does
797 not allow for a null generic subject. Holmberg (2010) further argues that
798 these consistent null subject languages choose either overt generic
799 pronouns (i.e. *si* in Italian) to express the generic 'one', or, in the case of
800 Greek, choose 2SG verbal agreement to encode genericity (i.e. generic
801 *you*). With respect to Greek, (ii) is correct in that 3SG in Greek permits only
802 an overt generic pronoun (i.e. *kanis* or *o alos*). However, (ii) does not
803 capture the more complex empirical pattern that holds for Greek
804 genericity; a null generic subject does not only occur with 2SG, but also
805 with 1PL (cf. the data in section 2.3), and 3PL in Greek permits either a null
806 generic pronoun or an overt one (i.e. *i ali*, see example (9)).

807 Holmberg (2010) demonstrates that the Finnish generic pronoun is
808 specified for Case, person (i.e. 3SG) and number, but does not satisfy the
809 D-feature of the EPP on T. This is why an expletive or another adverbial
810 satisfies the EPP. Holmberg postulates that partial pro-drop languages do
811 not have a D-feature on T, as consistent ones like Greek do.¹⁹ I will follow

¹⁹ Although Holmberg (2005, 2010) does not elaborate any further on the absence of D in partial pro-drop languages, I believe that he is aware that reducing the typological

812 Holmberg (2005) in assuming that T in Greek possesses a D-feature. In
813 this case there are two important questions that emerge from the null
814 arbitrary constructions investigated here: (i) what satisfies the D-feature
815 of T in these constructions and, furthermore, (ii) what is the featural
816 content of the 2SG generic vs. the 2SG referential verbal inflection given
817 that the inflectional ending of the verbal morphology in these cases is
818 polysemous.

819 In order to be able to answer (i) and (ii) above, I first present some
820 theoretical assumptions that dominate the literature on the modes of EPP-
821 satisfaction and on the featural composition of T and then discuss the
822 featural make-up of the verbal morphology in Greek arbitrary
823 constructions. In order to address (ii) I adopt and modify a feature
824 geometry account similar to those advocated by Béjar (2003), Carvalho
825 (2017), and Harley and Ritter (2002), among many others. Feature
826 geometry has typically been advanced to account for the more complex
827 pronoun agreement patterns that we encounter across various languages.
828 However, in this work feature geometry is adopted to account for the
829 agreement patterns of the verbal morphology. It is shown that in Greek
830 arbitrary constructions, the standard ϕ -features (i.e. person, number and
831 gender, etc) are not enough to account for the properties of these verbal
832 agreement morphemes and their corresponding interpretations. Instead,
833 these ϕ -features are decomposed into more lexical features (i.e. [D],
834 [ANIMATE], [HUMAN], etc). These features are arranged in a
835 hierarchical/geometric fashion. In feature geometry, categories such as
836 *animacy* and *specificity* are grammaticalized and participate in the
837 derivation in the form of features so that we can explain more complex
838 agreement patterns that appear cross-linguistically (i.e. constraints on
839 which features can co-occur, etc). Specifically, it is shown that the internal
840 composition of person in the verbal morphology of arbitrary constructions
841 is featurally less specified (i.e. lacks a [DEFINITE] feature), than the featural
842 specification of person in referential verbal morphology (see also Gruber,

distinction between partial pro-drop languages and consistent null subject languages to a D-feature only does not come without its unwarranted consequences, as in partial pro-drop languages definite subjects should be ruled out altogether from SpecTP.

843 2011). In effect, the arbitrary (i.e. generic and existential) verbal
844 morphology is not ‘nominal’ enough to carry a D-feature and satisfy the
845 corresponding D-feature of the EPP. To resolve this situation, it is further
846 argued that an (overt or covert) XP merges on SpecTP and satisfies the
847 EPP in both types of arbitrary constructions.

848

849 **3.2 EPP on T as D**

850

851 Alexiadou and Anagnostopoulou (1998), following Chomsky (1995), have
852 put forward the idea that the EPP requirement of T (=a referential feature
853 in their account) can be satisfied either by head movement (i.e. V-T
854 movement), as the verbal morphology is nominal enough to encode a D-
855 feature, or by movement of a DP- subject from SpecvP to SpecTP. There is
856 a third mode of EPP satisfaction which explains the presence of expletives
857 such as *there* and *it* in English. According to this last mode of EPP-
858 satisfaction the expletive, or expletive-like-element (see Holmberg, 2000
859 on Icelandic stylistic fronting) merges on SpecTP and satisfies the D-
860 feature of the EPP. A genuine expletive lacks some ϕ -features but has a
861 person feature and as such is capable of satisfying the D-feature of the
862 EPP (Chomsky, 2000). Furthermore, Alexiadou and Anagnostopoulou
863 (1998) argue against an expletive *pro* in the system of Greek, given the
864 absence of definiteness restriction effects in the language. An element
865 that does not have an effect on LF should not be present and a covert
866 expletive in Greek does not have an interpretive effect. Essentially,
867 Alexiadou and Anagnostopoulou (1998) argue that SpecTP in the system
868 of Greek is inert and V-T movement is what invariably satisfies the EPP on
869 T. Effectively, they roughly divide languages into Null Subject Languages
870 that have rich verbal agreement in which the verbal agreement is D-
871 marked and satisfies the EPP via verb movement (i.e. Greek) and
872 languages such as English which lack rich verbal agreement and opt for
873 one of the other two modes of EPP satisfaction. In addition, their system
874 does not make any predictions in relation to the presence of a referential
875 *pro* in the sense of Rizzi (1982). To do justice to the authors, a referential

876 *pro* is redundant in their system given that the verbal morphology is
877 nominal enough to satisfy the D-feature of the EPP.

878 The questions that arise at this point are (a) what this D-feature
879 amounts to, and (b) what the categories that may bear a D-feature are. I
880 take this D-feature to be a feature that represents definiteness, but not
881 necessarily specificity.²⁰ Rohrbacher (1999) and Van Gelderen (2011)
882 argue that from the ϕ -feature bundle, person is the feature that
883 determines the presence or absence of D in the verbal agreement
884 morpheme (cf. Alexiadou and Anagnostopoulou, 1998:519, fn 29). For
885 instance, if the verbal morphology encodes person (e.g. 2SG, etc), then it is
886 considered nominal enough to match and delete the uninterpretable D-
887 feature of the EPP. However, the assumption that the 2SG person
888 invariably encodes a D-feature is still not able to account for a 2SG generic
889 vs. a 2SG referential interpretation and none of the authors above
890 demonstrate the link between a D-feature and a person feature. In line
891 with Alexiadou and Anagnostopoulou (1998) and Holmberg (2000, 2005), I
892 take Greek T to invariably possess a D-feature which I take to correspond
893 to a [DEFINITE] feature.

894 In order to shed light on the relationship that holds between a
895 person and a D-feature, I first argue that the person feature is further
896 decomposed into two more features; a [PARTICIPANT] and a [D] feature. In
897 turn, the [PARTICIPANT] feature can be further broken down to a [SPEAKER]
898 and an [ADDRESSEE] feature, whereas the [D] feature is further
899 decomposed to a [DEFINITE] and a [SPECIFIC] feature. When the
900 [PARTICIPANT] and the [D] features are fully specified the result is a 1ST or
901 2ND person referential interpretation. However, as I demonstrate in the next
902 section, the absence of a [DEFINITE] feature on the Goal V in Greek has the
903 following two consequences: (a) results in an arbitrary interpretation, and
904 (b) requires the uninterpretable D-feature of T to participate in a *second*
905 *cycle of Agree* (B  jar, 2003), so as to find another lexical item that bears

²⁰ I dissociate definiteness from specificity (see Ihsane and Puskas, 2001; Alexiadou et al
,2007, among others). I also refrain from taking a position that a D-feature is always
referential, as not all EPP satisfiers are referential (i.e. pure expletives), see Holmberg
2000, 2010.

906 the requisite D-feature. Aside from the person feature that also includes
907 [PARTICIPANT] and [D], the Greek feature bundle of T also possesses
908 number, Case, as well as an [ANIMATE] and a [HUMAN] feature to capture
909 the fact that arbitrary constructions presuppose reference to humans (for
910 a similar view see Holmberg and Phimsawat, 2015). As number in both
911 types of arbitrary constructions (i.e. generics and existentials) designates
912 reference to multiple humans, then number is invariably marked as
913 [GROUP]= PLURAL.²¹ It is now time we investigated in some detail the
914 featural composition of the verbal agreement of these arbitrary
915 constructions.

916

917 **3.3 Decomposing arbitrary V; empty D**

918

919 First of all, I take the inflectional ending of the verbal morpheme of a 2SG
920 generic arbitrary reading to be polysemous with the inflectional ending of
921 the verbal morpheme of a 2SG referential reading. Polysemy here captures
922 the fact that the inflectional paradigm of a given verb has multiple
923 instances of the same forms. The idea is that the inflectional ending of a
924 verbal form carries different readings and enters the paradigm listed in the
925 lexicon as many times as the readings it carries. For example, the root of a
926 2SG referential agreement and the root of the 2SG generic agreement is the
927 same, so the forms of the paradigm cannot be accidental, as would be in
928 the case of homophony (cf. Lyons, 1977). The main difference between a
929 2SG generic and a 2SG referential reading is that the first behaves like an
930 indefinite (see Contoravdi, 1989a) whereas the second behaves as a
931 definite.²² This case of polysemy provides direct empirical evidence that a
932 2SG referential verbal form is internally more complex than a 2SG generic
933 verbal agreement. These distinct interpretations of a 2SG verbal agreement

²¹ Krifka et al (1995) and Laca (1990) also point out that habitual generics refer to plural entities.

²² Zobel (2016) argues that impersonal pronouns behave neither as definite pronouns (i.e. as argued by Kratzer, 1997), nor as indefinites (cf. Contoravdi, 1989a; Moltmann, 2006, among others).

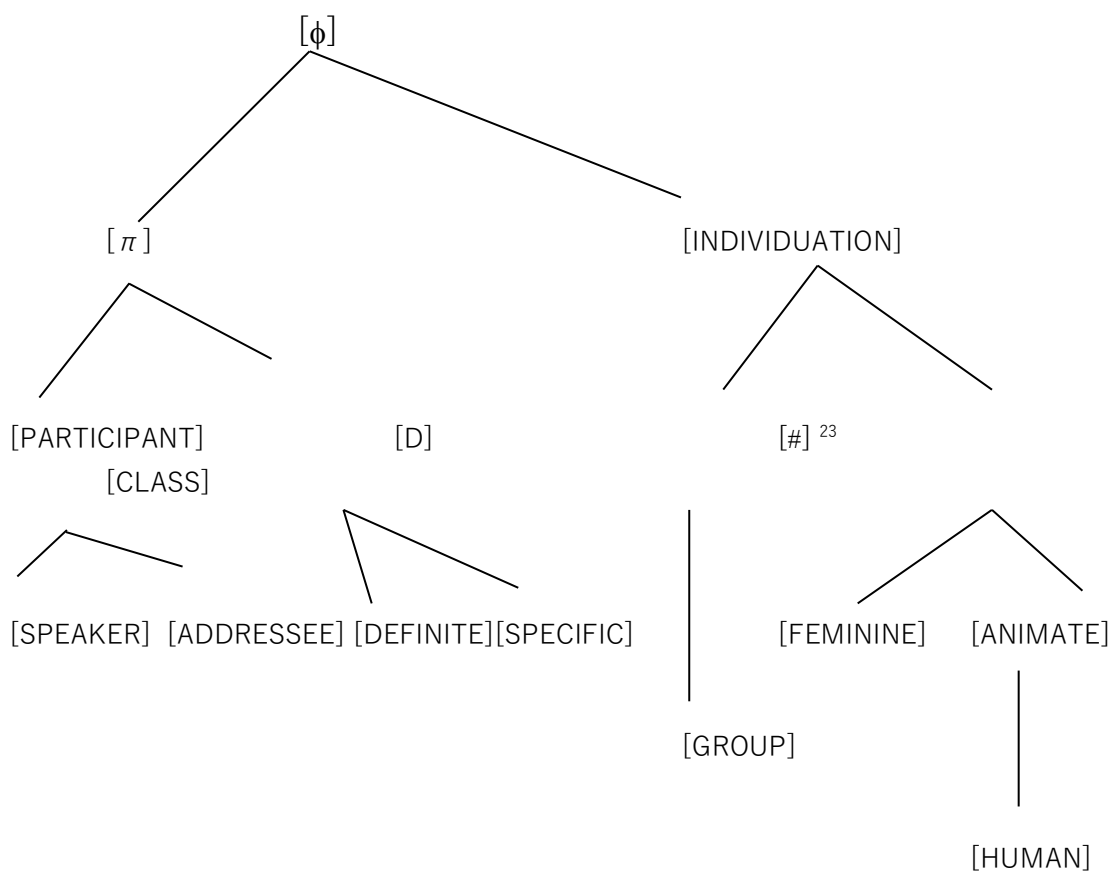
934 cannot be captured simply by postulating that a person feature is either
935 present or not (i.e. +/- person).

936 The first analyses that arrange features in a geometrical fashion
937 emerged in phonology, as certain combinations of phonological features in
938 the languages of the world could only be accounted for in a hierarchical
939 manner (Clements, 1985). Given that similar language specific
940 combinations also occur in pronominal and other agreement systems, a
941 geometrical feature organisation was put forward to account for the
942 morphological features of person, number, class, and gender (Harley,
943 1994; Harley and Ritter, 2002; Ritter, 1997, among others). Greenberg
944 (1963) was the first to note that the way these morphological features
945 interact cannot be explained as an unordered bundle of features which can
946 only be assigned a +/- value (Chomsky, 2000). Such binary values cannot
947 account for a number of more complex combinatorial possibilities that we
948 encounter across languages or for the exact interaction between person,
949 number, and gender features (i.e. gender depends on number, arbitrary
950 and referential interpretations that arise with the same pronoun, etc.). For
951 instance, in traditional syntactic approaches to agreement, a 2SG arbitrary
952 and a 2SG referential verbal agreement, like the ones we encounter in
953 Greek, can only be accounted for by postulating that a 2SG arbitrary
954 interpretation lacks a person feature, whereas in a 2SG referential
955 interpretation a person feature is present. Nevertheless, in both readings
956 the verb is marked for 2SG person. This evidence compels a more detailed
957 person feature composition in order to demonstrate that this language
958 specific interpretation of person is dependent on the interaction of a richer
959 inventory of formal ϕ -features (i.e. person).

960 Based on Harley and Ritter's (2002) as well as on Béjar's (2003)
961 geometric representation of morphosyntactic features, Carvalho (2017)
962 puts forward an analysis that explains the distinct interpretations
963 encountered in the pronoun system of Brazilian Portuguese (BP). More
964 specifically, he demonstrates that a binary system where a ϕ -feature is
965 either present or absent (à la Chomsky, 1995 and subsequent work) is not
966 a sufficient model to account for all the different properties and
967 interpretations of the BP pronoun system. For instance, the BP 2SG

968 pronoun *você* may be interpreted either referentially or generically. Given
 969 that both pronouns are specified for person (i.e. 2SG) Carvalho shows that
 970 it is not person *per se* that triggers these distinct interpretations. Instead,
 971 it is the more intricate internal composition of the person agreement that
 972 is responsible either for a generic or for a referential interpretation.
 973 Effectively, he proposes the following featural composition of BP
 974 pronouns:

975
 976 (42) **ϕ -feature agreement in BP pronouns**



995 (Carvalho, 2017:80)

996

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999

²³ [#] signals the number category for plural pronouns in BP, whereas the absence of [#] marks singular BP pronouns. Consider Carvalho (2017:72-73) on why [#] is empirically necessary.

1000 (42) shows that features of pronominal arguments are grouped in classes
1001 under the dominant (root) node [ϕ] which stands for ϕ -feature agreement.
1002 The intermediate category [π] represents person. In Harley and Ritter's
1003 (2002) analysis person is represented solely by the category [PARTICIPANT]
1004 which further dominates a [SPEAKER] and an [ADDRESSEE] feature. The
1005 [PARTICIPANT] feature refers to the participants in the discourse and as
1006 such it is only present with 1st and 2nd person agreement. Specifically, the
1007 [SPEAKER] feature is encountered when the discourse person is the
1008 speaker, as is the case with 1st person, whereas the [ADDRESSEE] feature
1009 represents the hearer in the discourse and is typically attested with 2nd
1010 person pronouns. 3rd person pronouns are not specified for [PARTICIPANT],
1011 as 3rd person does not count as person (cf. Carvalho, 2017; Harley and
1012 Ritter, 2002, *inter alia*). On the other hand, a [DEFINITE] feature refers to an
1013 individual that is present in the universe of discourse, whereas a [SPECIFIC]
1014 feature denotes a specific/familiar individual (see Carvalho, 2017: 70). In
1015 Carvalho's system, [π] is a necessary intermediate category, given that
1016 person is not only broken down to [SPEAKER] and [ADDRESSEE], but [π]
1017 further dominates a [D] feature, as illustrated by (42).²⁴ This [D] feature
1018 constitutes the nominal part of the pronoun and further comprises of a
1019 [DEFINITE] and a [SPECIFIC] feature. Essentially, the person agreement
1020 encodes [D] when at least one of its features (i.e. [DEFINITE] and/or
1021 [SPECIFIC]) are present, otherwise D remains empty and [π] is
1022 underspecified for [D].²⁵ The system presupposes an implicational

²⁴ Béjar (2003:48-50) argues that [π] is a notational variable that may be abstract in content, but crosslinguistic evidence requires it to be invariably present. For instance, Béjar (2003) observes that 3rd person pronouns may lack [PARTICIPANT], but may possess a [DEICTIC] feature as part of [π]. I will adopt [π], and assume that as [π] entails a range of different person-related features, it is always present, even in Greek 3rd person verbal agreement, despite the fact that in 3rd person the [PARTICIPANT] feature is absent (cf. Carvalho, 2017; Harley and Ritter, 2002).

²⁵ Béjar (2003) and Carvalho (2017) use the notions of *deficiency* and *underspecification* interchangeably. A form is deficient if it lacks at least one internal feature (Carvalho, 2017:110), whereas a form is maximally underspecified if it presents only the features that maximally define its category, cf. Carvalho, 2017:113 who follows McFadden, 2007.

1023 relationship (i.e. entailment)²⁶ whereby [DEFINITE] cannot occur in the
1024 absence of the distinctive feature [D] and [D] exists only if [π] does, etc
1025 (see Bejar, 2003; Carvalho, 2017; McFadden, 2007, among others). In (42)
1026 [INDIVIDUATION] stands for the traditional category of number and [GROUP]
1027 corresponds to plural. On the other hand, [CLASS] corresponds to the
1028 traditional category of gender as well as other nominal information, hence
1029 why aside from [FEMININE] it also includes [ANIMATE] and [HUMAN] features.

1030 Carvalho further argues that when [D] is empty, then the reading
1031 that ensues can only be arbitrary. Effectively, the generic 2SG pronoun
1032 *você* is deficient because it lacks one or more internal features (see
1033 Carvalho, 2017:63). This distinct featural structure of the 2SG referential
1034 *você* and the 2SG arbitrary *você* are exemplified in (43a) and (43b),
1035 respectively:

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1053 (43a) **2SG referential *você* (BP)**

1054 R(oot)
 |
 |

One such case is the 3SG generic construction where only [π] and [D] are present, but these are minimally specified (i.e. devoid of any features), as shown in (46b).

²⁶ “Given two elements A and B on a hierarchical order, the presence of B requires the presence of the other element (A)” (Carvalho, 2017:86).

1055

1056

1057

1058

1059 [PARTICIPANT]

1060

1061

1062 [ADDRESSEE]

1063

1064

1065

1066 (43b) **2sg arbitrary *você* (BP)**

1067

1068

R(oot)

1069

1070

[π]

1071

1072

1073 [PARTICIPANT]

[D]

1074

1075

1076 [ADDRESSEE]

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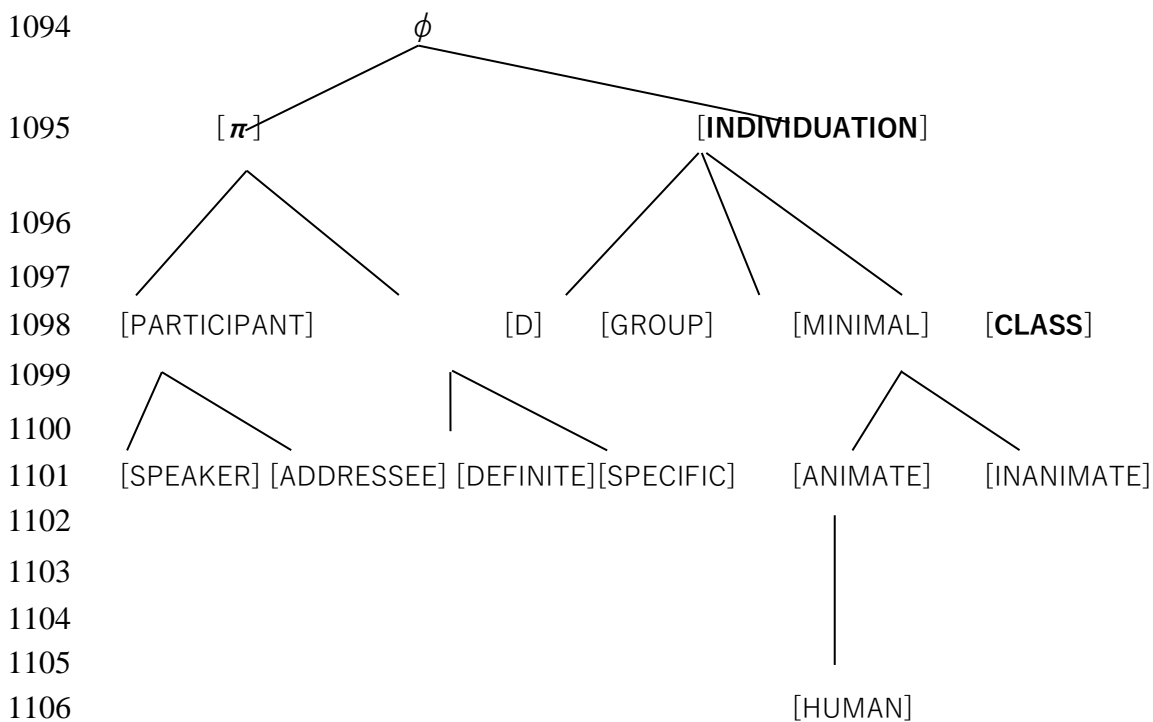
1085 (Carvalho, 2017:71)

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Following Carvalho (2017), I put forward (44) to account for the featural composition of the verbal agreement morpheme in arbitrary and referential constructions in Greek:

1092 (44) **Greek ϕ -feature verbal agreement**

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1114 Based on (44), one should note that [π], [INDIVIDUATION], and [CLASS] are
1115 not actual features, but labels that represent the traditional categories of
1116 person, number, and gender. Each of these categories consists of a bunch

1117 of features which determine various interpretations of verbal agreement.
 1118 For instance, according to (45a), the verbal inflection of a 2SG referential
 1119 agreement will bear the features of [PARTICIPANT] and [ADDRESSEE],
 1120 whereas [D] will also include the features of [DEFINITE] and [SPECIFIC]. In
 1121 addition, [INDIVIDUATION] will bear the feature [MINIMAL] to signal singular,
 1122 whereas [CLASS] will further include an [ANIMATE] feature, as demonstrated
 1123 by (45a):

1124

1125 (45a) **Greek 2SG referential agreement**

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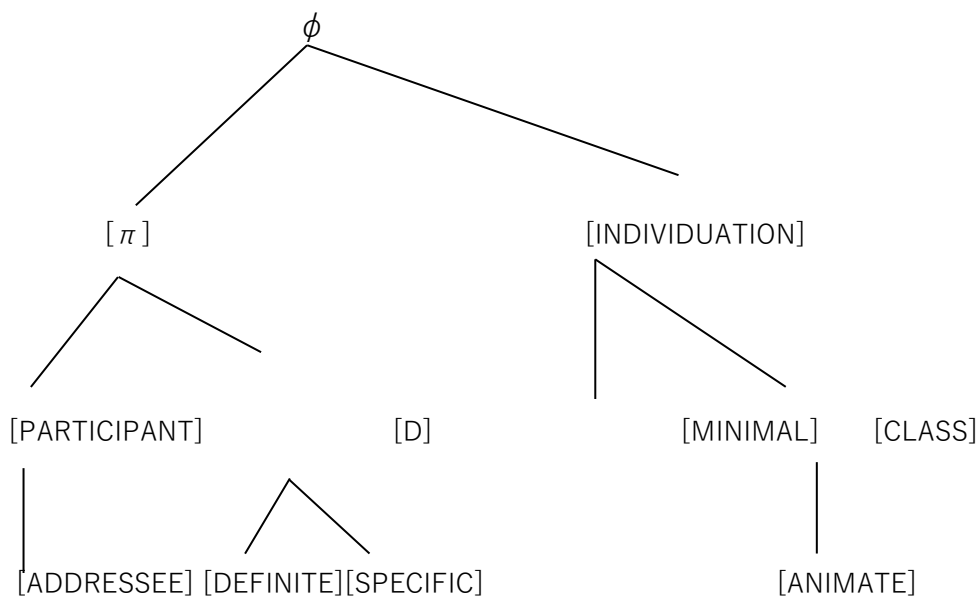
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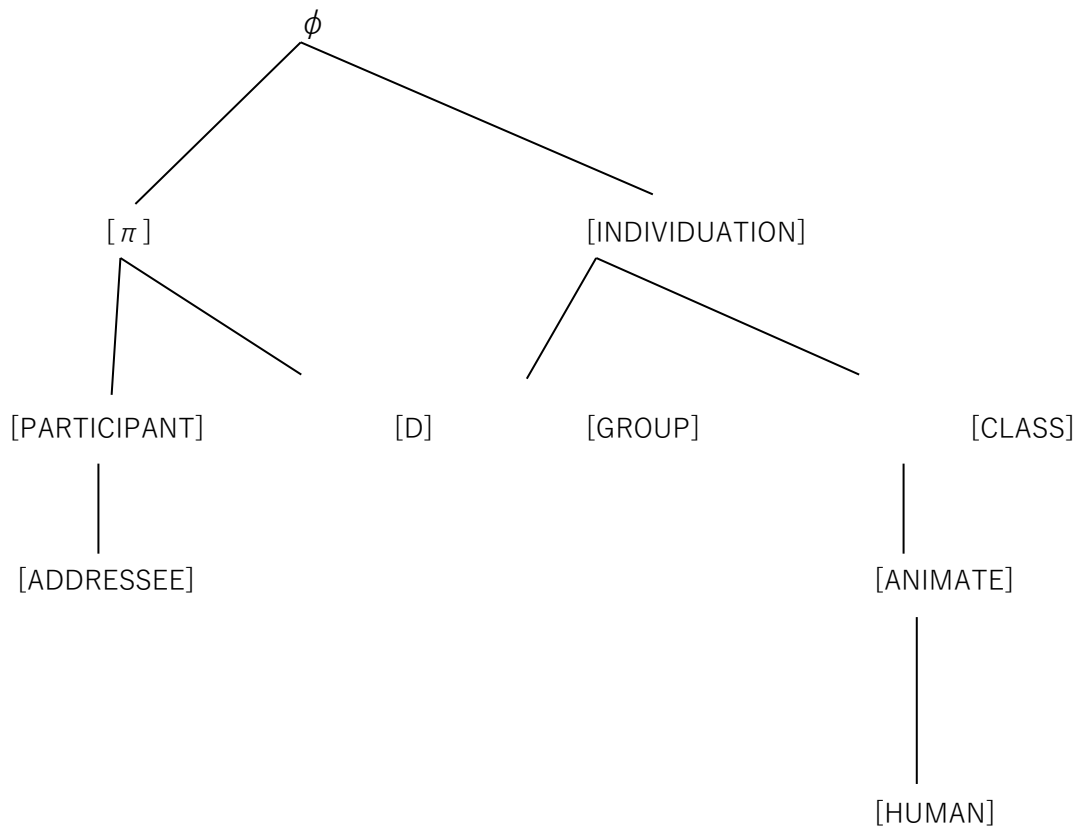
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Conversely, in a 2SG verbal morpheme with a generic interpretation the
 [PARTICIPANT] will still comprise an [ADDRESSEE] feature, but [D] will remain
 empty as the verbal morpheme in this case is neither [DEFINITE] nor
 [SPECIFIC]. In the case of [INDIVIDUATION], the verbal agreement morpheme
 will bear the feature [GROUP] for plural, whereas [CLASS] will also dominate
 an [ANIMATE] and a [HUMAN] feature, as illustrated by the schema in (45b):

(45b) **Greek 2SG generic agreement**

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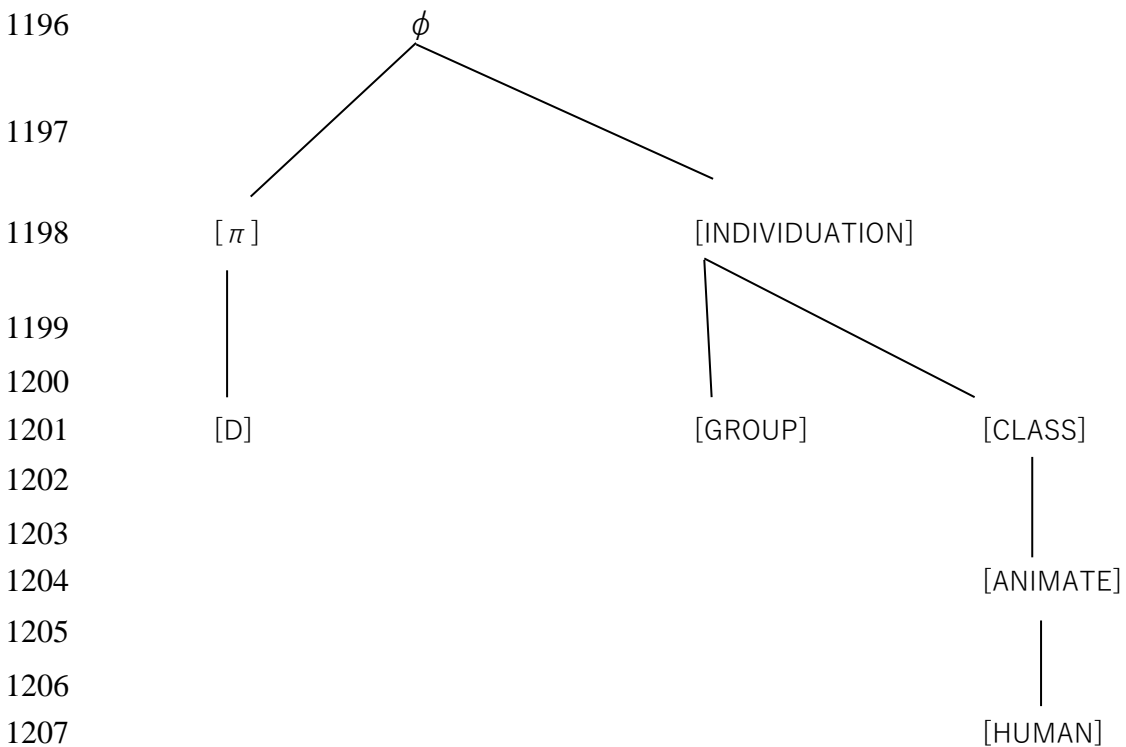
1171 According to the featural composition of the 2SG verbal inflectional
 1172 morpheme, in a 2SG generic interpretation the verbal morpheme is
 1173 deficient (i.e. it lacks one or more internal features such as [DEFINITE]) and
 1174 as a result it does not encode a D-feature to satisfy the D-feature of T (i.e.
 1175 the EPP). I will assume that the distinct interpretations of a 2SG generic
 1176 and a 2SG referential reading stem from the fact that the verbal agreement
 1177 in the first instance enters the derivation with [D] devoid of any content
 1178 (i.e. lacks a [DEFINITE] feature), whereas in the second instance the verb
 1179 enters the derivation with a specified [D] feature (i.e. possesses a
 1180 [DEFINITE] feature). Effectively, the verbal agreement of these 2SG generic
 1181 constructions cannot satisfy the D-feature of the EPP. On the other hand,
 1182 when these constructions are referential, the person feature is fully
 1183 specified and capable of deleting the uninterpretable D-feature of T.

1184 In line with Carvalho (2017) who takes 3SG agreement to be
 1185 underspecified, I too will assume that in a 3SG generic verbal agreement

1186 [π] is minimally specified as it lacks a [PARTICIPANT] and even though [D] is
 1187 present, it is completely devoid of any features, as shown in (46a). On the
 1188 other hand, (46b) shows that a referential 3SG verbal agreement also lacks
 1189 a [PARTICIPANT] feature, but [D] is more specified (i.e. bears the necessary
 1190 [DEFINITE] feature), and thus is able to satisfy the D-feature of the EPP.
 1191 The two featural representations are depicted below:

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 1193

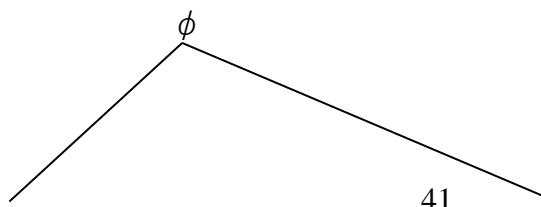
1194 (46a) **Greek 3SG generic verbal agreement**
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1217 (46b) **Greek 3SG referential verbal agreement**

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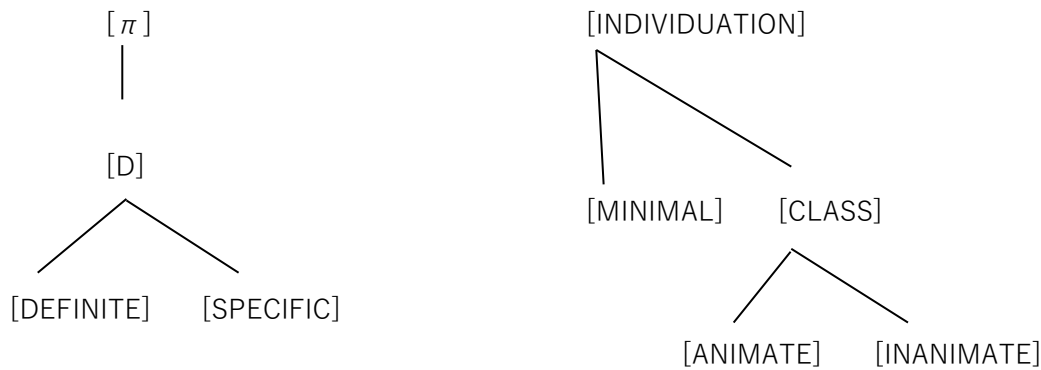
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The question that emerges at this point is whether there is any featural difference in the verbal morphology of a generic vs. an existential interpretation, as in the case of 1PL where we encounter both arbitrary constructions. Cinque (1988:545) demonstrates that an existential and a generic interpretation “[..] are just two *contextual variants* of one and the same *arb* [..]” Evidently this also holds true in the Greek null arbitrary constructions, as there are no differences in the featural composition of a 1PL generic and a 1PL existential verbal morphology; both have an empty [D] feature as part of their [π]’s internal composition. However, even though the π-agreement composition of a generic and an existential construction may be the same, the two types of constructions differ in that: (a) a generic reading favours the imperfective aspect, whereas an existential favours the perfective aspect, and (b) an imperfective verb in which [D] is devoid of content bears an *Arb-gen* feature on AspP, whereas an existential construction where the verb is marked with the perfective aspect and [D] is also devoid of content encodes an *Arb-ex* on AspP (see the discussion in section 3.4).

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Under the feature geometry approach adopted here and the more complex φ-agreement structure of the verbal agreement morpheme, the *Agree* operation established between an uninterpretable and an interpretable feature is not affected (see Chomsky, 1998, 2000). Once two features *Agree*, then the two features establish a *matching* relationship which is subsequently followed by *valuation* of these uninterpretable features. Valuation and subsequent deletion of uninterpretable features

1255 first presupposes match, but Carvalho (2017), following Béjar (2003) and
1256 McFadden (2007), argues that not all features between the Probe and the
1257 Goal need to be shared. As a matter of fact, the Probe need not be as
1258 featurally complex as the Goal (i.e. *full matching identity*), a simple
1259 intersection rather than full matching identity is sufficient in order for an
1260 Agree relationship to be established. Intersection holds from the top to the
1261 bottom of the feature tree structure and match is determined by
1262 entailment not by strict identity, whereby entailment holds only
1263 interpretable features. According to Béjar (2003:54): “Probe (F) and Goal
1264 (F’) match if Goal (F’) entails root Probe (F).” As correctly predicted by
1265 Béjar (2003), if entailment did not only hold interpretable features and
1266 uninterpretable features could also be specified via entailment, then what
1267 we would expect to see is an ‘overapplication of match’. To pre-empt such
1268 an undesirable consequence, Béjar (2003:54) postulates that: “Q is not
1269 automatically specified for all features entailed by an uninterpretable
1270 feature [F-] in Q.”

1271 Valuation of a feature either results in the feature being deleted, as
1272 in Chomsky’s (1998, 2000) theory, or otherwise the feature being rendered
1273 inert, as advocated by Béjar (2003). I will opt for feature deletion here.
1274 Match does not necessarily result in valuation and that has to do with how
1275 underspecified the Probe is (cf. Béjar, 2003; Carvalho, 2017). For instance,
1276 as shown in table 2, the Probe T of a 3SG generic agreement is specified
1277 for [π [D]] and the verbal agreement is specified for [π [D]] too. In
1278 essence, both Probe and Goal are minimally specified. In this case, the
1279 Probe with [π] at its root matches with the Goal, but as [π] is empty,
1280 nothing gets valued. For valuation to occur the matching features of the
1281 Goal must be a superset of the matching features of the Probe: “G(oal)
1282 values P(robe) iff f’(G) entails f(P)”, (Béjar 2003:65). Except for 3SG and
1283 3PL arbitrary agreement, in all other cases present in table 2, the matching
1284 features of the Probe are a subset of the matching features of the Goal,
1285 hence why there is valuation of [π]’s internal features. In Greek arbitrary
1286 constructions we do not encounter any instances where the Probe is more
1287 specified than the Goal, so the features of the Goal always follow the
1288 entailment requirement that is necessary for valuation.

1289 There is one more important point that I am obliged to address here
1290 and that is whether the person-feature bundle is evaluated as a
1291 constituent (i.e. as a bundle) or whether each feature is evaluated
1292 independently. Following Béjar (2003), I will assume that π -agreement
1293 features are evaluated individually and not as constituents. For instance, if
1294 the specification of the Probe is [π [PARTICIPANT] [D]], as in 2SG generic (cf.
1295 table 2 below), and the Goal is specified for [π [PARTICIPANT] [ADDRESSEE]
1296 [D]], then, each feature gets valued independently and not as part of a
1297 constituent (i.e. *value=[π [PARTICIPANT] [D]]). This means that in a 2SG
1298 generic verbal agreement only [PARTICIPANT]²⁷ gets valued, given that
1299 [PARTICIPANT] is further specified including the feature of [ADDRESSEE].
1300 Conversely, [D] does not get valued as it lacks any further specification.
1301 Béjar (2003:35, fn 7) observes that the benefit from features being valued
1302 separately is that the Agree operation becomes cyclic. This means that if
1303 at the end of the first cycle of Agree there remain uninterpretable features
1304 (e.g. [D] in 2SG generic), then a second cycle of Agree will apply, whereby
1305 these uninterpretable features will Probe and get evaluated by a matching
1306 Goal that exists in their local domain. If there is no matching feature in
1307 their local domain, as is the case with Greek arbitrary constructions, then a
1308 lexical element with matching features will merge on SpecTP to delete the
1309 D-feature.

1310 Based on the different verbal agreement patterns and their
1311 corresponding referential vs. arbitrary interpretations, I propose that an
1312 Agree relation established between T (Probe) and V (Goal), will result in
1313 the valuation of the following π -agreement features:

1314

1315 Table 2: Person Feature Composition and Valuation

1316

| PERSON FEATURE | PROBE T | GOAL V | VALUE |
|----------------|---------|--------|-------|
|----------------|---------|--------|-------|

²⁷ In Table 2, I leave out [π] from receiving a value because: (i) I take [π] to be only a label for the category of person and not a feature *per se*, and (ii) particularly in 3SG and 3PL arbitrary constructions, [π] is totally empty. For a different view see Béjar, 2003 who assumes on one end that [π] is a notational variable and on the other that it can get valued as if it were a feature.

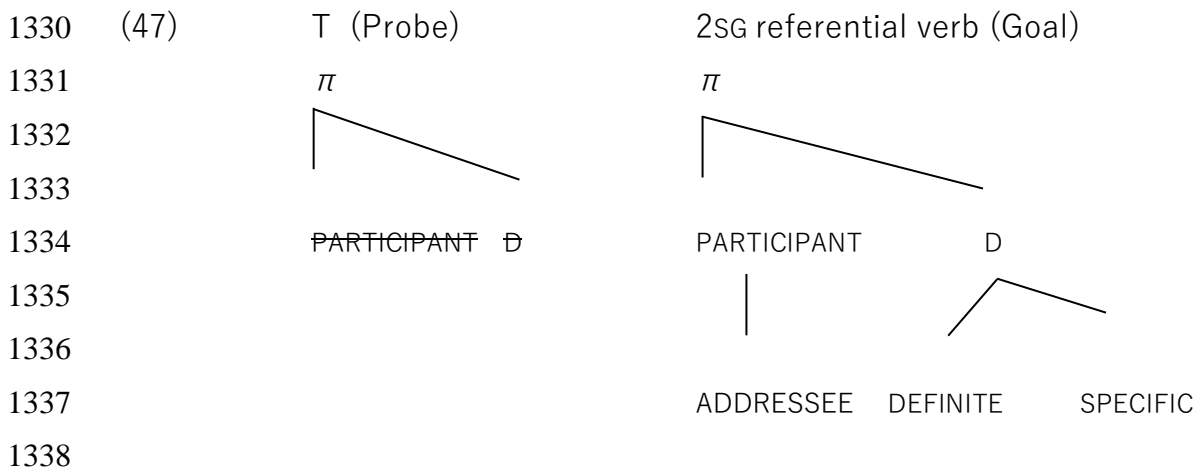
| | | | |
|-------------------|-------------------------------|---|----------------------------------|
| 2SG (generic) | [π [PARTICIPANT] [D]] | [π [PARTICIPANT] [ADDRESSEE] [D]] | [PARTICIPANT] yes, [D] no |
| 2SG (referential) | [π [PARTICIPANT] [D]] | [π [PARTICIPANT [ADDRESSEE]] [D [DEFINITE] [SPECIFIC]]] | [PARTICIPANT] yes, [D] yes |
| 3SG (generic) | [π [D]] | [π [D]] | — |
| 3SG (referential) | [π [D]] | [π [D [DEFINITE] [SPECIFIC]]] | [D] yes |
| 1PL (arb) | [π [PARTICIPANT] [D]] | [π [PARTICIPANT [SPEAKER]] [D]] | [PARTICIPANT] yes, [D] no |
| 1PL (referential) | [π [PARTICIPANT] [D]] | [π [PARTICIPANT [SPEAKER]] [D [DEFINITE] [SPECIFIC]]] | [PARTICIPANT] yes, [D] yes |
| 3PL (arb) | [π [D]] | [π [D]] | — |
| 3PL (referential) | [π [D]] | [π [D [DEFINITE] [SPECIFIC]]] | [D] yes |

1317

1318

1319 Based on Table 2, a 2SG referential T comprises a [π] feature which has
1320 both a [PARTICIPANT] and a [D] feature. First, T's uninterpretable features
1321 match with the interpretable features available on V and establish an
1322 Agree relationship. However, the [π] feature of T (i.e. the Probe) is not
1323 specified any further than a [PARTICIPANT] and a [D] feature, that is, it does
1324 not include the internal features of [SPEAKER] [ADDRESSEE], [DEFINITE] and
1325 [SPECIFIC], etc. Given that the Goal is featurally more specified than the
1326 Probe (i.e. also includes an [ADDRESSEE] and a [SPECIFIC] feature) both the
1327 [PARTICIPANT] and the [D] feature (i.e. 2SG referential), as shown below, are
1328 evaluated and subsequently deleted:

1329



1339 In the above construction [PARTICIPANT] receives the value of [ADDRESSEE]
 1340 and [D] receives the value of [DEFINITE] and [SPECIFIC].

1341 As expected, [π] of a referential 2SG /3SG verbal agreement is richer
 1342 than the corresponding generic 2SG /3SG agreement in its internal π -
 1343 feature composition, as the referential constructions also include a
 1344 [DEFINITE] feature necessary to delete the D-feature of the EPP. In all the
 1345 arbitrary constructions above (i.e. 2SG, 3SG, 1PL, and 3PL), the D feature of
 1346 the Probe does not find a matching D-feature on the Goal (i.e. [D] of the
 1347 Goal is empty). In effect V-T movement in these arbitrary constructions
 1348 does not value or delete the D-feature of T. As mentioned earlier and
 1349 demonstrated in Table 2, one of the benefits of the ϕ -feature
 1350 decomposition is that the Probe features are evaluated independently and
 1351 not as a bundle (cf. Béjar, 2003:35). I assume that the same happens with
 1352 the person agreement features that we looked at here. As such, in the
 1353 arbitrary constructions at hand, the Probe D remains visible and active and
 1354 seeks another Goal to Agree with and value the D-feature. Agree becomes
 1355 a cyclic operation and can take place as many times as there are still
 1356 active and unvalued ϕ -features in the derivation. Following Béjar (2003), I
 1357 propose that in these arbitrary constructions, the D feature of T enters a
 1358 *second cycle of Agree* during which the Probe seeks another matching
 1359 Goal. As there is no other eligible candidate to Agree with the D-feature of
 1360 the Probe in the local domain of T, these arbitrary structures are rescued
 1361 through XP Merge on SpecTP.

1362 All the generic constructions we have examined so far required either
 1363 an overt XP or a covert one (i.e. has been introduced in the discourse

1364 before). So, the alternative in these generic constructions where the verb
 1365 lacks a D-feature, is to assume that the XP bears a D-feature and merges
 1366 on SpecTP to satisfy the D-feature of T. Based on standard literature
 1367 consensus (Alexiadou 1996, 1999; Borer, 2005; Pinto, 1997; Sheehan,
 1368 2006; Zubizarreta, 1998), I take these XPs to be stage topics or else range
 1369 assigners.²⁸ Stage topics, whether overt or covert, are scene setting
 1370 elements that provide locative (or temporal) information (i.e. set the stage)
 1371 on the scope of the predication. Borer (2005) analyses these XP elements
 1372 as being under the scope of existential quantifiers and alludes to these
 1373 occupying a SpecTP position, the EPP related position. What is more,
 1374 Basilico (2003) has argued that a covert stage-topic (i.e. a type of *pro*),
 1375 attested in some of the small clauses he discusses, bears at least a D-
 1376 feature. Adopting Basilico's idea, I will assume that the D-feature of an XP
 1377 represents a [DEFINITE] feature, as if it were an overt subject (i.e. a kind-
 1378 referring subject, cf. Krifka et al, 1995):

1379
 1380 (48) *i Agli/ stin Aglia pinun poli.*
 1381 The English/ in-the England drink.PRS.IPFV.3PL a-lot
 1382 'English people/In England they drink a lot'

1383
 1384 The subject above *i Agli* 'English people' is definite, but not specific
 1385 which corroborates the claim here that the relevant feature for D-feature
 1386 satisfaction is a syntactically present [DEFINITE] and not a [SPECIFIC]
 1387 feature. In (48) the D-feature of T is satisfied either by the subject or by
 1388 the overt XP that Merges on SpecTP.²⁹

1389 All the generic constructions we have examined so far required
 1390 either an overt XP or a covert/presupposed one (i.e. has been introduced

²⁸ For different views but in a similar vein, see Holmberg, 2010 who postulates the existence of logophorically dependent elements that bind 3SG null subjects and Frascarelli, 2007 who argues that referential *pro* can refer to topics that are not part of the same sentence.

²⁹ I am aware that there is variation in the judgment of the speakers on whether the XP in (48) can appear clause-initially only and/or clause-finally. It is important to mention that of the informants I have consulted, all agree that the XPs used here sound more natural in clause initial position.

1391 in the discourse before). The assumption entertained here is that even in
 1392 generic arbitrary sentences such as (3) repeated below for convenience as
 1393 (49), there is a covert stage topic, such as *stin Elada* ‘in Greece’, or *sta*
 1394 *estiatoria* ‘in restaurants’, or *edo* ‘here’³⁰ that will merge on SpecTP and
 1395 satisfy the EPP:

1396

1397 (49) *proarb-gen den servirun ti supa*
 1398 not serve.PRS.IPFV.3PL the.ACC soup.ACC
 1399 *prin to psari.*
 1400 beforethe.ACC fish.ACC
 1401 ‘They don’t serve the soup before the fish’

1402

1403 (Condoravdi, 1987:20)

1404

1405 Conversely, in referential 2SG null constructions the verbal morphology
 1406 possesses a fully specified person feature (i.e. specified for both
 1407 [PARTICIPANT] and [D]). In these referential constructions, as correctly
 1408 predicted by Alexiadou and Anagnostopoulou (1998), the interpretable
 1409 person feature also comes with a specified [D] feature which enters an
 1410 Agree relation with the D-feature of the EPP, satisfying it via V-T
 1411 movement. The most significant theoretical implication that emerges from
 1412 these 2SG generic constructions is that V-T movement does not satisfy the
 1413 EPP in Greek uniformly, as has been argued by Alexiadou and
 1414 Anagnostopoulou (1998). Instead, the same language may employ
 1415 different modes of EPP satisfaction (i.e. Merge XP vs. Move X) for
 1416 different derivations. Syntactically, whichever option is taken depends on
 1417 the features borne by the verbal morphology.³¹

³⁰ Carvalho (2017) based on Cowper and Hall (2002) shows that in some languages the [DEFINITE] feature can be further decomposed into a [DEICTIC] and a [DISTAL] feature. In the case of locative adverbs such as *edo* ‘here’, the relevant feature may well be a [DEICTIC] feature. Investigating this, admittedly important issue, falls beyond the remit of this paper.

³¹ 3SG generic constructions that require an overt generic pronoun such as *kanis* or *o alos* to appear postverbally (and preverbally in the case of *o alos*) are analysed in a similar

1418 Before I end this section, a careful reader may have noticed that
 1419 although I have been using throughout the empirical part of this paper the
 1420 term arbitrary *pro*, until now, I have not made any mention of *proarb* in the
 1421 syntactic architecture of these constructions. There are two options here,
 1422 either: (a) to assume that *proarb* is licensed in SpecvP and Agrees with the
 1423 features of T, or (b) the distinct morphological structure of the verb in
 1424 these constructions suffices to differentiate between an arbitrary and a
 1425 referential interpretation, making *proarb* redundant in a similar way to the
 1426 redundancy of referential *pro* in Alexiadou and Anagnostopoulou's (1998)
 1427 account. If I opt for (b), then *proarb* is essentially 'absorbed' by the verbal
 1428 agreement morphology. According to Holmberg (2005, 2010), reflexive
 1429 binding (i.e. Principle A) would constitute evidence towards the presence
 1430 of *proarb* whereby *pro* will bind the reciprocal phrase *o enas ton alon* 'each
 1431 other' as in (50):

1432
 1433 (50) *Stin Elada prota vrizume o enas*
 1434 in.the Greece first insult.PRS.IPFV.1PL the.NOM each.NOM
 1435
 1436 *ton alon ke meta zitame*
 1437 the.ACC other.ACC and then ask.PRS.IPFV.1PL
 1438 *signomi.*
 1439 apology.ACC
 1440 'In Greece, first we insult each other and then we apologise'

1441
 1442 (50) survives whether we put forward the existence of *proarb* or not. In (50)
 1443 it could be a *proarb* that c-commands and binds the reciprocal *o enas ton*
 1444 *alon* 'each other', but we could also argue that the reciprocal is c-
 1445 commanded and bound by the closest antecedent (i.e. the verb that moves
 1446 from V-v-Asp-T). I will indeed postulate that the nominal part of the verbal
 1447 agreement can bind the reciprocal. Since the presence of *proarb* in the
 1448 syntactic architecture does not have an impact on the analysis advocated

manner to the null arbitrary constructions, given that they also require an overt or covert XP (i.e. D-marked) to appear clause-initially and satisfy the EPP, cf. section 3.5.

1449 in this paper, I will go with option (b) whereby *proarb* is not structurally
1450 motivated.³²

1451

1452

1453 **3.4 Gen and \exists as Arbitrary Features on AspP**

1454

1455 The analysis that predominates in the literature of generics is that of
1456 Chierchia (1995) and Krifka et al (1995), among others who postulate that
1457 there is a null sentence level operator (i.e. on C) which licenses the
1458 requisite generic reading through variable binding. Based on this account
1459 there is a variable and this variable is bound by the relevant operator
1460 (generic or existential) that is available in the derivation.³³ In the case of
1461 an arbitrary generic construction, the generic operator is dyadic.³⁴ A dyadic
1462 generic operator presupposes that a generic sentence must have at least
1463 one restrictor to generalise over. This restrictor is equated with a situation
1464 variable (cf. Krifka et al, 1995:35). When the interpretation is generic, then
1465 this variable cannot tie to a specific situation or to a particular object,
1466 instead it attributes a more generalised property. Traditionally, a generic
1467 operator is viewed as a covert adverb of quantification corresponding to
1468 the adverbs *generally*, *usually*, *typically*, etc (cf. Chierchia 1995; Krifka et al
1469 1995). This adverb of quantification defines a generic relationship that
1470 holds between the predicate and its subject. The clause-level operator
1471 modifies the predicate. Effectively, the semantic analysis of (51) where

³² For a different view, on the existence of *proarb* in languages which also license referential *pro*, see Contoravdi, 1987:25. Her account makes the strong prediction that *proarb* can only occupy a subject position, not an object position. If this is true, then her analysis will not be able to accommodate the null generic object constructions attested in Greek, see footnote 8.

³³ On an elaborate overview of generic operators, see Krifka et al, 1995, among others.

³⁴ The operator is dyadic in the sense that it relates the restrictor to the scope, that is, the sentential generic operator modifies the situation expressed by the whole clause. There is also the theoretical camp that advocates a monadic generic verb phrase operator that modifies the predicate (see Carlson, 1977). As observed by Carlson (1989) and Krifka et al (1995), the dyadic generic operator accounts that followed were more accommodating for a number of reasons (cf. Krifka et al, 1995).

1472 the generic operator binds the variable is represented as in the tripartite
1473 structure of (52)³⁵ (see Krifka et al, 1995:33ff; Contoravdi, 1989a, among
1474 others):

1475

1476 (51) *Stin Aglia pinun poli.*
1477 in.the England drink.PRS.IPFV.3PL a.lot
1478 ‘In England they drink a lot (of alcohol)’

1479

1480 (52) *Typically (GEN) if there is a drinking situation s, s involving an*
1481 *individual x who is from England, x drinks a lot in s.*

1482

1483 Conversely, in an existential arbitrary construction there is an Existential
1484 operator that is located at C-level (contra Diesing, 1992, but in line with
1485 Borer, 2005). As we have observed, the XP and the imperfective trigger a
1486 generic interpretation in the Greek null arbitrary constructions, whereas
1487 the XP and the perfective result in an existential interpretation. Therefore,
1488 it is safe to assume that on the basis of the aspectual distinction (i.e.
1489 imperfective vs. perfective) the imperfective co-occurs with a Generic
1490 Operator, whereas the perfective licenses an Existential operator. The
1491 analysis just outlined makes the strong prediction that for any instances
1492 where the imperfective is present, an existential reading is ruled out, a
1493 prediction that is not borne out by (53):

1494

1495

1496 (53) *Htes stin Plaka pulusan palia*
1497 yesterday in.the Plaka sell.PST.IPFV.3PL old.ACC
1498 *vivlia.*
1499 books.ACC
1500 ‘Some people were selling old books in Plaka yesterday’

1501

1502 (Spyropoulos, 2002:88)

1503

³⁵ The tripartite structure involves the Gen operator, a restrictor (i.e. where the operator ranges over) and the scope.

1504 In (53), the imperfective marking on the verb alongside the temporal
1505 adverb *htes* ‘yesterday’ result in an existential reading.³⁶ Aside from the
1506 apparent mismatch between aspect and interpretation in (53), there are
1507 other considerations that render a null Generic operator an unappealing
1508 syntactic device. Collins (2018) presents a wide array of arguments on why
1509 a null generic operator cannot be present in syntax. I mention a fraction of
1510 his arguments below.

1511 First, if a Gen operator is an adverb of quantification (i.e. usually,
1512 typically, mostly, etc), then such an adverb is an adjunct and no adjunct is
1513 syntactically obligatory. Furthermore, a covert element, as is a Gen
1514 operator, should be present only if it has an effect in the interpretation of
1515 the structure, something that a Gen operator does not seem to have. What
1516 is more, the tripartite structure of a Gen operator cannot explain generic
1517 scope ambiguity structures such as *hurricanes arise in this part of the*
1518 *Pacific* (see Collins, 2018: 41), where the restrictor can be either
1519 *hurricanes* or *this part of the Pacific*. To complicate things further,
1520 Liebesman (2011) argues that the wide scope reading of *this part of the*
1521 *Pacific* is existential not generic. To this list of arguments, we need to add
1522 the real issue of a null Gen operator; it is present in the syntactic
1523 derivation but not featurally motivated in syntax. Collins (2018: 61) has
1524 similar concerns: “The *real* disunity of genericity [...] is that there is no
1525 univocal linguistic feature that supports it, and we should not assume that
1526 any semantic feature must find a home at logical form, even if as an
1527 indexical. If logical form is to be a linguistic form, and not a mere
1528 theoretical artefact, then it needs to be realized in syntax, or at least
1529 constrained by it.”

³⁶ In Slavic languages, and most notably in Russian, the past imperfective aspect amongst its traditional usages (i.e. habitual) has also a *factual* one, as it describes a complete action and competes in usage with the perfective (see Grønn, 2003 for the properties and distribution of the Russian factual imperfective). This factual imperfective, a term coined by Grønn (2003), can have either an existential or a presuppositional interpretation. (53) is one such case of a factual existential imperfective, the sense of (53) is that it describes the existence of a fact (i.e. a complete event). The temporal adverbial *htes* assists this existential interpretation of (53), as it provides a *discourse reminder* (term by Grønn, 2003) offering a temporal perspective on the state of the speaker. This factual existential usage of the past imperfective in (53) does not impact on the pivotal argument put forward here and elsewhere in the literature that only the imperfective aspectual marking correlates with genericity (cf. Contoravdi, 1987; D’Alessandro and Alexiadou, 2002; Giannakidou, 1998; Lekakou, 2005; Spyropoulos, 2002; Tsimpli and Roussou, 1996, among many others). It falls beyond the scope of this work to investigate the properties and distribution of the Greek factual past imperfective. Thanks to one of the reviewers for raising my attention to this specific effect of the past imperfective.

1530 If the reader agrees with the above considerations, as I do, then, one will
1531 also concur that we need to find a syntactic trigger for these arbitrary
1532 constructions.

1533 The scholarly consensus (cf. Cinque, 1988; Contoravdi, 1989a;
1534 D’Alessandro and Alexiadou, 2002; Delfitto and Bertinetto, 2000;
1535 Giannakidou, 1998; Krifka et al, 1995; Lekakou ,2005, 2006; Spyropoulos,
1536 2002; Tsimpli and Roussou, 1996, among others) agrees that for a generic
1537 reading to come about the verb has to be marked with the imperfective
1538 aspect, whereas an existential reading is triggered when the verb is
1539 aspectually marked with the perfective. Essentially, an atelic/unbounded
1540 reading seems to be a prerequisite for a generic interpretation, whereas a
1541 bounded interpretation is the prerequisite for an existential interpretation
1542 as shown by (54) and (55) respectively:

1543

1544 (54) *Stin Aglia pinun poli.*
1545 in.the England drink.PRS.IPFV.3PL a.lot
1546 ‘In England they drink a lot’

1547

1548 (55) *(Stis exetasis) elioses sto diavasma.*
1549 (in.the exams) melt.PST.PFV.2SG in.the reading
1550 ‘(In the exams) you studied until you dropped’

1551

1552 In an attempt to address the strong correlation that holds between the
1553 imperfective and genericity, Alexiadou (1997) and D’Alessandro and
1554 Alexiadou (2002), propose that the imperfective head also carries a
1555 Generic feature, whereas the perfective does not. This Generic feature is
1556 present in an Asp(ectual)Projection that is situated above VP and below
1557 TP:

1558

1559 (56) [CP …[TP …[Aspect P …[vP…[VP …]]]]]³⁷

1560

1561 (adapted from D’Alessandro and Alexiadou, 2002: 39)

1562

³⁷ I do not adopt their SpeechActP(rojection) that is situated below CP and above TP.

1563 For D'Alessandro and Alexiadou (2002) the Asp head bears an
1564 interpretable generic feature and the person feature of *si* gets its
1565 uninterpretable feature valued as generic.³⁸ One of the shortcomings of
1566 their account, to which the authors admit to, is that the order of
1567 interpretable vs. uninterpretable features in their analysis is unorthodox
1568 and the reverse of what is advocated in Chomsky's theory. According to
1569 Chomsky (1999) an interpretable feature should be borne by *si*, the
1570 pronoun, whereas AspP, the functional projection, should bear an
1571 uninterpretable one. In the analysis to follow I will only retain their core
1572 idea (i.e. a generic feature available in syntax) as my departure point and
1573 advance it further.³⁹

1574 More specifically, I claim that whenever the verb is not fully
1575 specified (i.e. empty [D] feature) and is marked with the imperfective
1576 aspect, then there is an uninterpretable *Arb-gen* feature on the head of
1577 AspP. Correspondingly, when the verb is again not fully specified, but is
1578 marked with the perfective aspect, then there is an uninterpretable *Arb-ex*
1579 feature available on the head of AspP. These two arbitrary features are
1580 satisfied only by the underspecified verbal morphology exhibited in these
1581 arbitrary constructions. I further put forward that these *Arb* features are
1582 also coupled with an EPP requirement.⁴⁰ Recent Minimalist assumptions
1583 render an EPP feature as the only possible trigger for movement (see
1584 Chomsky 2002, 2004, 2007, 2008, etc). The uninterpretable *Arb* feature
1585 (*Arb-gen* or *Arb-ex*) Probes the corresponding interpretable *Arb* feature of
1586 the verb and the two enter an Agree relationship. In principle, this Agree
1587 relationship should be an in-situ one, but the presence of an EPP feature
1588 alongside *Arb* dictates that the verb moves to the head of AspP to satisfy
1589 both an *Arb* feature and the EPP. Essentially, the verb moves from V-v-Asp
1590 and satisfies this *Arb* feature and it subsequently moves to T to satisfy T's

³⁸ In D'Alessandro and Alexiadou's (2002) account it is the person feature of the verb that gets valued as generic once it enters an Agree relation with AspP head.

³⁹ It is not unheard of to incorporate a semantic feature in the course of the syntactic derivation. For instance, Espinal and McNally (2011) postulate a formal LOC feature that is borne by the verb, so they can account for bare nouns that participate in existentials.

⁴⁰ Landau (2007) shows that the EPP always works in tandem with another feature (i.e., D on T, wh on C, etc). Whenever EPP is satisfied so is the other feature it is combined with.

1591 features. It should be noted that this *Arb* feature is only present when the
1592 verb lacks a [D] feature specification (i.e. lacks a [DEFINITE] feature).
1593 Further, the type of aspect that marks the verb determines the type of *Arb*
1594 feature (i.e. *Arb-gen* or *Arb-ex*) available on AspP, namely when the verb is
1595 marked with the imperfective, then the feature available on AspP is *Arb-*
1596 *gen*, whereas when the verb is marked with the perfective then the feature
1597 available on AspP is *Arb-ex*. This *Arb* feature is not present when the [D] of
1598 [π] is fully-specified, as in a 2SG referential construction.

1599 The theoretical advantage of the account above is that it
1600 incorporates arbitrariness as a feature in the syntactic derivation.⁴¹
1601 However, the analysis here would fail to account for the apparent
1602 mismatch that is observed in (53). In (53) the imperfective requires the
1603 obligatory presence of an *Arb-gen* in AspP. Satisfying *Arb-gen* should only
1604 result in a generic interpretation which is not borne out by (53). In (53), the
1605 presence of the temporal adverb *htes* alongside the past imperfective
1606 blocks the generic reading, given that the temporal adverb *htes* and the
1607 past imperfective verb denote telicity (i.e. complete event) as they
1608 introduce a very specific time span to a past imperfective event. I will
1609 assume that this type of *mismatch* between the imperfective and an
1610 existential interpretation is the result of *coercion*, a process that takes
1611 place at a post syntactic level.⁴²

⁴¹ The alternative to the present analysis would be to follow Beghelli and Stowell (1997:8) who argue that scope assignment is the ‘by-product of agreement processes’ and certain quantificational phenomena (i.e. Wh-operator, Gen-operator, Neg-operator, etc) have designated structural positions in the clausal structure. Movement of lexical elements to these positions takes place to check these quantificational features (for different versions of the same core idea, see also Kratzer and Shimoyama, 2002; Moltmann 2006, and more recently Tsoulas and Yeo, 2017). Kratzer and Shimoyama (2002) argue that there are uninterpretable features such as Gen, Neg, and \exists carried by lexical elements and their interpretable counterparts are the corresponding operators. If we follow Kratzer and Shimoyama (2002) and assume that the Gen and \exists operators, situated at C-level in the arbitrary constructions, are interpretable, then we cannot really establish a regular Probe-Goal Agree relationship, as the interpretable operator cannot probe an uninterpretable feature lower down in its c-command domain (for alternatives cf. Gil and Tsoulas, 2013).

⁴² The notion of coercion was first introduced by Chierchia (1998) as a type-shifting semantic process and advocated, among others, by de Swart (1998:360) under a

1612 Even though it falls beyond the remit of this work to deal with the
 1613 overt generic pronouns *kanis* and *o alos* in any detail, yet in the next
 1614 section I bring into focus a set of data that support the analysis above.

1615

1616

1617 **3.5 Possible extension to the overt pronouns; *kanis* and *o alos***

1618

1619 First of all, *kanis* ‘one’ as a generic pronoun survives only in a
 1620 postverbal position, as demonstrated by (57):

1621

1622 (57) *To himona arosteni kanis efkola.*
 1623 in.the winter get-ill.PRS.IPFV.3SG one.NOM easily
 1624 ‘During winter one easily gets ill’

1625

1626 If we try to test the position of generic *kanis*, it becomes evident that the
 1627 postverbal position is the only legitimate one:

1628

1629 (58a) *Sto Bangladesh dulevi kanis apo mikri*
 1630 in.the Bangladesh work.PRS.IPFV.3SG one.NOM from young
 1631 *ilikia.*
 1632 age
 1633 ‘In Bangladesh, one works from a young age’

1634

Discourse Representation Theory (DRT) model on duration adverbials *for* and *in* in English, by Borer (2005) for mass count nouns and lately by Collins (2018) who takes the position that genericity is nothing more but the result of coercion. Coercion, according to de Swart (1998:360), attempts to resolve, amongst other things, aspectual conflicts through the use of mechanisms that are non-syntactic but contextual. I remain agnostic on the exact mechanism of coercion that is in operation for these constructions at a post-syntactic level, but the theoretical advantage of coercion here is that it does not affect the main observations of this work; XPV(imperfective, *Arb-gen* feature) → generic, XPV(perfective, *Arb-ex*) → existential. Effectively, in cases where there is imperfective marking, but the semantic interpretation is existential, other contextual factors obviate the generic reading and this mismatch is resolved post-syntactically via coercion (cf. Lekakou, 2005).

1635 (58b) ??? *Sto Bangladesh kanis dulevi apo*
 1636 in.the Bangladesh one.NOM work.PRS.IPFV.3SG from
 1637 *mikri ilikia.*
 1638 young age
 1639 ‘In Bangladesh, one works from a young age’

1640

1641

1642 (58c) * *Kanis dulevi apo mikri ilikia sto*
 1643 one.NOM work.PRS.IPFV.3SG from young age in.the
 1644 *Bangladesh.*
 1645 Bangladesh
 1646 ‘In Bangladesh, one works from a young age’

1647

1648 On a par with null generic subjects, (57) and (58a) reveal that a clause-
 1649 initial XP is also required when the overt generic pronoun *kanis* is present.
 1650 In addition, as with null generic subjects, the perfective aspect does not
 1651 combine well with the overt generic pronoun *kanis*:

1652

1653 (59) * *(Sto Bangladesh) dulepse kanis apo mikri*
 1654 in.the Bangladesh work.PST.PFV.3SG one.NOM from young
 1655 *ilikia.*
 1656 age
 1657 ‘One worked from a young age in Bangladesh’

1658

1659 The examples above reveal that *kanis* supports our analysis of generics
 1660 whereby: (i) the person feature of the verbal agreement is underspecified
 1661 (i.e. [D] lacks a [DEFINITE] feature) and is unable to delete the D-feature of
 1662 the EPP, (ii) the EPP is satisfied via merge of the XP to SpecTP, and (iii)
 1663 raising of the verb satisfies the *Arb-gen* feature of AspP.

1664 On the other hand, *o alos*, the other overt generic pronoun, appears
 1665 in a preverbal position, combines with the imperfective and does not
 1666 necessarily require an XP clause-initially:

1667

1668 (60) *O alos kani afto pu*

1669 the.NOM other.NOM do.PRS.IPFV.3SG this.ACC that

1670 *ton simferi.*

1671 him.ACC.CL benefit.PRS.IPFV.3SG

1672 'One does whatever benefits him/her'

1673

1674 (61) *Stin Athina o alos agorazi*

1675 in.the Athens the.NOM other.NOM buy.PRS.IPFV.3SG

1676 *mono ta aparetita.*

1677 only the.ACC necessary.ACC

1678 'One buys only the necessities in Athens'

1679

1680 (62) *O alos ekane afto pu*

1681 the.NOM other.NOM do.PST.PFV.3SG this.ACC that

1682 *ton sinefere.*

1683 him.ACC.CL benefit.PST.IPFV.3SG

1684 'The other person (i.e. Yanis) did whatever benefited him'

1685

1686

1687 Unlike the overt generic pronoun *kanis*, *o alos* is preferred preverbally, as
1688 in (60), and it may, as in (61), or may not be preceded by an XP, as in (60).
1689 On a par with *kanis* and the null arbitrary constructions a generic reading
1690 cannot be sustained when the verb is in the perfective, only a referential
1691 one is possible in (62). In the generic constructions illustrated by (60) and
1692 (61) the 3SG person agreement lacks a [PARTICIPANT] feature and [D] is
1693 empty (i.e. lacks a [DEFINITE] feature). Effectively, the 3SG verbal agreement
1694 in (60) and (61) satisfies the *Arb-gen* feature of AspP, but does not encode
1695 the requisite D-feature and as such it cannot delete the D-feature of the
1696 EPP. Given that an XP is not obligatorily present in these constructions,
1697 we can assume either that there is a covert XP that merges on SpecTP, or
1698 that the generic pronoun is moved to SpecTP. I will adopt the first position,
1699 as I cannot really see how the pronominal, *o alos*, which behaves like an
1700 indefinite pronoun carries the requisite D-feature to satisfy the EPP. Since
1701 both the XP (overt or covert) and the generic pronoun occupy SpecTP,

1702 then we will have to make recourse to multiple specifiers according to
1703 which the XP will be merged on the outer SpecTP.⁴³

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1705

1706 **4 Concluding Remarks**

1707

1708 It was shown that Greek null arbitrary subject constructions may encode
1709 either a generic or an existential interpretation. We encounter null arbitrary
1710 subject constructions in Greek not only with 3PL verbal agreement, as has
1711 been assumed in the literature, but also with 2SG, and 1PL. Given that the
1712 inflectional ending of the verbal morpheme of a 2SG generic arbitrary reading
1713 is polysemous with the inflectional ending of the verbal morpheme of a 2SG
1714 referential reading, I have shown that structurally the two constructions
1715 differ in the featural make-up of their verbal morphology. Assuming that the
1716 EPP represents a D-feature which I take to correspond to a [DEFINITE]
1717 feature, the verbal morphology of an arbitrary construction is deficient, as
1718 the person feature is not fully specified (i.e. [D] is empty). In effect, the verb
1719 in these constructions does not encode a D-feature necessary to delete the
1720 D-feature of the EPP. Instead, the XP that is located in clause-initial
1721 position is what encodes a D-feature and merges (overtly or covertly) on
1722 SpecTP to satisfy the D-feature of the EPP. On the other hand, the verbal
1723 morphology in the referential constructions is specified for a [DEFINITE]
1724 feature, and as a result V moves to T to satisfy the D-feature of the EPP.

1725 The direct theoretical consequence of such an analysis is that
1726 Alexiadou and Anagnostopoulou's (1998) typology in which languages like
1727 Greek always satisfy the EPP via V-T movement does not hold true. Instead
1728 this work showed that depending on the derivation, EPP may be satisfied
1729 through various modes (i.e. Move X vs. Merge XP). It was further shown
1730 systematically that a generic reading arises when there is a clause-initial
1731 XP (overt or covert) and the verb is marked with the imperfective aspect,
1732 whereas an existential reading is triggered in the presence of perfective
1733 verbal marking and an overt or covert XP. On the basis of these facts, this

⁴³ Chomsky (2007, 2008) and Richards (2015) argue that merging in multiple specifiers should not be constrained or ordered.

1734 work dispenses with the presence of null generic and existential operators
1735 at the clausal level, and instead, generates an *Arb* feature in AspP. When
1736 the verb is marked with imperfective aspect, then, AspP possesses an
1737 uninterpretable *Arb-gen* feature, whereas when the verb is marked with
1738 perfective aspect then AspP possesses an uninterpretable *Arb-ex* feature.
1739 Movement of the verb in these arbitrary constructions first deletes the
1740 corresponding *Arb* feature and subsequently moves further up to T to delete
1741 the remaining ϕ - agreement bundle.

1742

1743

1744 **References**

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