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ÜLEŞTİRME BELİRTİCİLERİ ÇALIŞMASINA BİR AMPİRİK KATKI: KOSOVA ARNAVUTÇASI KANITI

Öz

Diller, üleştirmenin farklı belirticileriyle üleştirme okumalarını iletmenin farklı yollarına sahiptir. Ayrıca 'üleştirme sayıları' olarak da bilinirler ve kökleri klasik dilbilgisi ve filolojik çalışmalarında bulunur; Gil (1982a) bunları "Üleştirme Sayıları" başlıklı doktora tezi ile resmi dilbilim ile tanıştırmıştır. Çalışmamız, üleştirme-okuma yapısında 'Üleşmek' unsurunda bulunan Kosova Arnavutçasının 'nga' morfeminin ayrıntılı açıklamasını sunmaktadır.

Kosova'da konuşulan Arnavutça, kuzey Geg lehçesine dayanarak, standart Arnavutçadan oldukça farklı olması sebebiyle, çalışmamızın amacı haline getirilmiştir. Öncelikle, bu araştırmamız mevcut dilbilimsel üleştirme teorilerinin birkaçını sunmaktadır (Gil 1982a, 1982b, 1988, 2005, Choe 1987, 1991, Farkas 1997, Cable 2014, Kuhn 2019). Bu teorilere dayanarak, Arnavutçadaki 'nga'-belirtici üzerindeki morfolojik, sözdizimsel ve yorumlayıcı kısıtlamaları araştırıp, gözlemlenen özelliklerle tutarlı olarak bu morfemin sözdizimsel analizini önermekteyiz.

Tanımlayıcı sonuçlarımız Choe ve Farkas'ın teorileri tarafından bir bütün olarak doğru bir şekilde öngörülse de dikkate değer bazı ampirik ayrıntı içerir. Ayrıca Gürcü (Gil)'de ve Macar (Farkas)'da aynı şekilde varsayımımıza göre Arnavutçada başlatılan, özelleştirilmiş ön belirleyici olarak Üleştirme markajında, bir üleştirme-işaretleme stratejisi olarak tanımlanan tekrir arasında bazı mukayeseleri ortaya çıkarır.

Bu nedenle çalışmamız, doğal dillerde üleştirme ve üleştirme belirticisi üzerine daha fazla teorik ve karşılaştırmalı çalışmalar için bir temel sağlamaktadır.

Anahtar kelimeler: üleştirme belirticisi, belirsiz belirleyici öbeği, biçimsözdizimi, anlambilim, Kosova Arnavutçası

AN EMPIRICAL CONTRIBUTION TO THE STUDY OF DISTRIBUTIVITY MARKERS: EVIDENCE FROM KOSOVO ALBANIAN

Abstract

Languages have different ways of conveying distributive readings with different markers of distributivity. They are also known as 'distributive numerals' and they have their roots in classical grammatical and philological studies; Gil (1982a) introduced them into formal linguistics through his doctoral thesis entitled" *Distributive Numerals*". This article presents a detailed description of the Kosovo Albanian morpheme *nga* occurring on the 'Share' constituent in a distributive-read construction.

Spoken Albanian in Kosovo – being steeped in the northern Gheg diaclect, differs considerably from Standard Albanian -- has been made the object of this study. At the outset, this research article offers an account of available linguistic theories of distributivity (Gil 1982a, 1982b, 1988, 2005, Choe 1987, 1991, Farkas 1997, Cable 2014, Kuhn 2019). Drawing on these theories, we explore the morphological, syntactic and interpretive constraints bearing on the *nga*-marker in Albanian, and propose a syntactic analysis of this morpheme consistent with the observed properties.

Although our descriptive results are as a whole correctly predicted by Choe's and Farkas's theories, they include a number of noteworthy empirical details and bring out some contrasts between reduplication, described as a distributive-marking strategy in Georgian (Gil) and Hungarian (Farkas), and Share marking by a specialized pre-determiner, as instantiated in Albanian, under our own assumptions.

This study should thus provide a basis for further theoretical and comparative works on distributivity and distributive marking in natural languages.

Keywords: distributive marker, indefinite DPs, morphosyntaxe, semantic, Kosovo Albanian.

1. Introduction: background assumptions on distributivity

The primary goal of this article is descriptive: we want to bring out the morphological, syntactic and interpretive properties of the morpheme nga occurring as a *Share* distributivity marker in Kosovo Albanian $(KA)^1$.

A prototypical illustration of what is commonly known as the distributive interpretation (cf., a.o., Corblin 1987, 2006, Dobrovie-Sorin & Beyssade 2004 on indefinites) is the English sentences in (1), interpreted as in (1a-ii) or (1b-ii):

(1) a. Every girl read *a book*.

(i) 'There is one book which every girl read.'

(ii) 'For every girl there is a book which she read.'

b. The girls read *a book*.

(i) There is one book which {every girl read separately/the group of girls read together}.

(ii) 'For every girl, there is some book which she read.'

These two sentences are ambiguous between a reading or group of readings glossed in (1a-i), (1b-i), involving wide scope for the italicised indefinite, and a reading (glossed in (1a-ii), (1b-ii) involving narrow scope for the indefinite. Under this latter reading, but not under the former, there is a *distributive* effect, viz. a dependency relation between the denotation of the indefinite object, and that of the quantified subject: we understand that the nature of the Book referent co-varies with that of the Girl referent. One point which deserves mentioning is that under the distributive interpretation, the plural subject in (1b) must be read as quantified, thus as a set of individual entities acting separately, not as a group of people acting collectively and thus forming a unit: if *the girls* denotes a group in (1b), the indefinite object is assigned wide scope, giving rise to one of the

¹ As for any standardised language, the grammar of Albanian which is represented in available textbooks and linguistic works (cf. Agalliu et al. 2002, Boissin 1975, Celiku et al. 1998, Gut et al. 1999, Demiraj 1972, 1975, 2002, Agaliu 1980, Përnaska 1997, Kallulli 1995, 1999, 2000, 2001, 2004, 2005, Topalli 2009), is that of Standard Albanian (SA), which is taught in schools and used in formal writing in all parts of Albania and Kosovo. However, the Albanian-speaking co-author of this article acquired Albanian in Pristina (Kosovo), where the informal spoken language (Kosovo Albanian: KA), an variety of the Gheg dialect, differs in various respects from Standard Albanian: for instance, clitic anticipation of nonprepositional objects is more generalised in KA than in SA; the morphology of participles is different (e.g. the participle of the verb meaning 'to speak' is *folur* in SA, *fol* in KA); the form of the 'infinitive' is different (e.g. 'in order to speak' translates as per të folur in SA, me fol in KA). Since Standard grammars of Albanian provide no complete description of distributive nga, we had to sollicit intuitions from native speakers in order to do this work. And since all our consultants, as well as the Albanian-speaking co-signer of this article, being from Kosovo, activate their KA grammar in their linguistic assessments, we decided to overtly acknowledge the KA flavour of our data by consistently selecting the KA (rather than SA) option for every dialectal variable occurring in our examples: in particular, all participles and infinitives appear in their KA form, and clitic anticipation is generalised (a KA feature). We thus leave it as open issues whether dialectal Albanian varieties distinct from KA might contrast with KA with respect to the grammar of distributive marking, and if such were the case, which grammar of distributive marking should be acknowledged as Standard for Albanian. For some information about dialectal variation in Albanian, cf. Gut & al. (1999), Halimi (2001), and especially Beci (2002).

readings glossed in (1b-i)). Gil (1982a, 1982b, 1988, and 2005), Choe (1987, 1991), Farkas (1997) and Zimmermann (2002) analyse distributivity as a semantic dependency between two quantified expressions within a clause, one of which is necessarily indefinite. Choe analyses the relation as involving two *co-arguments*, while Farkas emphasises the fact that each of the two expressions must contain a semantic variable — one of which (the one introduced by the indefinite) is dependent on the other. Choe (1987: 91) respectively names the two terms of the distributive relation the *Sorting Key* and the *Distributive Share*, two terms which Gil (1988, 2005) simplifies to *Key* and *Share*: thus in the above examples, interpreted as in (1a-ii) or (1b-ii), the Key constituent is the quantified subject, and the Share constituent is the object *a book* — the dependent indefinite. In the English examples in (1), distributivity is morphologically unmarked — it is but an interpretive option for *a priori* ambiguous sentences. Sentences may however contain *distributivity markers*, e.g. lexical triggers which force a distributive reading to arise. As regards English, Choe (1991) for instance mentions the adverbial *a piece*, and the floating quantifier *each* as distributivity markers, since sentences which contain them are unambiguously construed as distributive:

(2) a. The girls read a book *a piece*.

b. The girls read a book *each*.

Choe (1987, 1991) suggests that syntactic structure is not a crucial factor for the licensing of a distributive reading. This property is illustrated by the following English examples (K = Key; S = Share):

(3) a. Every candidate spoke to a journalist. K S
b. A journalist spoke to every candidate. S K
c. Our newspaper sent a journalist to every candidate. S. K
d. Mary spoke to a journalist every day. S K

The Share constituent must however, regardless of its surface syntactic position, be construed semantically under the scope of the Key phrase. We shall show below (section 2.3) that this assumption is empirically supported in KA.

Choe proposes to assume that the Key and Share must be co-arguments, with *arguments* understood as including an Event argument \dot{a} la Davidson (1980): this analysis suffices to account for the distinction between 'distributivity over participants' and 'distributivity over events': in (4a) the Key is the (plural) subject argument; in (4b,c) (and (3d)) it is the (plural) event argument, which is not represented in the syntax but made visible in the interpretation by the pluractional adverbial *at a time*:

(4) a. The girls carried three suitcases each.

b. The girls carried three suitcases at a time.

c. Mary carried three suitcases at a time.

Empirical studies on distributivity focus on Share distributivity markers, viz. those occurring on the Share constituent. Choe (1987, 1991) calls these markers *anti-quantifiers*, on account of their strict narrow scope reading (or scopelessness), which makes their behaviour the opposite of that of quantifiers. A typology of Share distributive markers is presented by Gil (2005), who shows that they are quite well represented across the world's languages. For speakers of such languages as English or other Western-European languages, however, Share distributive markers look exotic since they have no counterparts in the grammars of their own languages. Under Gil's (2005) typology, Share distributive markers may surface as cardinal reduplication, prefixes, suffixes, or independent words linearly preceding or following the head noun within the Share DP. Case studies bearing on Share distributive markers include in particular Gil (1988) on cardinal reduplication in Georgian, and Farkas (1997) on cardinal reduplication in Hungarian, Farkas (2000) on the morpheme *cîte* in Romanian, on the distributive markers *kakoy-nibud'* and *<po* +instrumental plural> in Russian. The present study, which bears on the Albanian morpheme *nga*, is but a further empirical contribution to our general information about Share distributive markers.

We now present a description of the Share distributive marker nga in KA, devoting Section 2 to the external properties of distributive indefinites, and Section 3 to their internal make-up.

2. *Nga*-indefinites within their sentence

2.1. Nga as a Share distributive marker

The pair of examples in (5) shows that the occurrence of nga on the left of the cardinalised object dy zyre 'two offices' forces its distributive interpretation, as characterised in Section 1, which our English translation suggests (rather than captures)² by means of the floating quantifier *each*:

(5) a. Në këtë universitet, profesorët
in DM.MSG.ACC university.MSG.ACC teacher.DF.MPL.NOM³
i kanë dy zyre.⁴
3PL.ACC have.PRS.3PL two office.FPL.ACC
Lit. 'In this university, the teachers have two offices.'
[preferred reading: same pair of offices for all teachers]

² Since *nga*-distributive marking has no counterpart in English, our English translations of KA *nga*-indefinites (often by floating *each* or by the adjective *different*) are doomed to be approximations.

³ Abbreviations used in the glosses of our KA examples: ACC = accusative case; DF = definite; DISTR = distributivity marker (*nga*); DM = demonstrative; F = feminine gender; FUT = future (tense); IMP = imperfect (tense); ITJ = interjection; M = masculine gender; NOM = nominative case; OBL = oblique case; PL = plural; PRS = present tense; PST = past tense; PTC = particle; PTP = participle; REF = reflexive; SG = singular; 1, 2, 3 = first, second, third person. KA distinguishes morphologically a simple past (glossed as PST) from an auxiliated form similar to the French *Passé Composé* in that although its auxiliary is specified for the Present Tense, it may be anchored either to Speech Time, or to a past Reference Time. Both the simple past and the auxiliated past are found in our KA examples.

⁴ In KA, most nonprepositional internal arguments, both definite and indefinite, must be anticipated by a weak proclitic pronoun which agrees with the anticipated DP in person, number and Case. In this example, the 3rd-person accusative clitic i anticipates the accusative indefinite object, regardless of distributive marking.

b. Në	këtë	universitet,			profesorët
in	DM.MSG.ACC	univer	sity.MS	G.ACC	teacher.DF.MPL.NOM
i	kanë		nga	dy	zyre.
3pl	ACC have.prs.	3pl	DISTR	two	office.FPL.ACC

Lit. 'In this university, the teachers have two offices each.'

Nga in (5b) may thus be identified as a distributivity marker— a *Share* distributive marker, since it signals the indefinite DP as dependent on a quantified co-argument. We argue below in section 3 that distributive *nga* is indeed a syntactic constituent of the indefinite DP. *Nga*-less indefinite DPs must on the other hand be described as *a priori* ambiguous between a nondistributive and a distributive reading, for although they often contextually select a nondistributive interpretation (cf. (5a)).

As witnessed by the examples in (6) below, the Share distributivity marker nga is overtly distinct from universal quantifiers such as *secili* 'every(one), each(one)' or *çdo* 'every, each', since these may— optionally, but naturally — co-occur with nga-marking within a sentence:

(6) a. {Secili/çdo} tren i ka (nga) dy shoferë.
each.MSG.NOM train 3PL.ACC have.PRS.3SG DISTR two driver.MPL.ACC
Lit.'{Each/every} train has two drivers (a piece).'

ł	o. Secili	i	ka ((nga)	dy	shofer	ë.	
	each.MSG.NOM	3PL.ACC	have.PRS.3SG		DISTR	two	driver.MPL.ACC	
	Lit 'Each and has two drivers (a nigge) !							

Lit. 'Each one has two drivers (a piece).'

Nga distributive marking abides by a locality constraint which is consistent with Choe's assumption that the distributive dependency involves two *co-arguments*:

(7)	a. Të	gjithë	studen	tët	i	kanë
PL	all	student	.DF.MPL.N	ОМ	3pl.acc	have.PRS.3PL
lexua	r	nga	dy lib	ra.		
read.	РТР	DIS	STR two	book.	FPL.ACC	

Lit.'All the students (have) read two books each.'

b. * Të	gjithë	studentët			mendojnë		
PL all	student.DF.M	SPL.NOM	belie	ve.3pl			
[që i	kam	lexuar	nga	dy	libra].		
that 3PL.ACC	have.prs.1sc	G read.PTP	DISTE	r two	book.FPL.ACC		
Lit. 'All the students think that I (have) read two books each.'							

2.2. *Nga*-indefinites vs. bare arguments

As already mentioned above and further emphasised below in section 3, the distributive marker *nga* always linearly precedes a cardinalised DP, and hence cannot be followed by a bare nominal. Bare nominals in Albanian are productively licensed in V- (8a) or P-governed (8b) positions, where they undergo semantic incorporation into the predicate, construed as property or activity-denoting:

(8)	a. Beni	ka		shtëpi /	libra.			
	Ben.DF.MSG.NOM	have.PRS.3SG ho	ouse.FSC	B.ACC /	book.FPL.ACC			
	Lit. 'Ben has house (= a house)/books.'							
b.	Beni	banon	në	hotel.				
	Ben.DF.MSG.NOM	live.PRS.3SG	in	hotel.MSG.	ACC			
	Lit. 'Ben lives in h	otel (= in a hotel).'						

As an effect of semantic incorporation, bare nominals exhibit strict narrow-scope effects and allow distributive interpretations in the presence of a quantified co-argument. *Nga*-marking, however, is strictly disallowed for bare nominals, as witnessed by (9) where the object's semantic incorporation within the predicate is revealed by the number dependency linking the object to the quantified subject:

(9)	a. {Secili/çdo} tren	ka	(*nga)	shofer.
	each.MSG.NOM train	have.PRS.3SG	DISTR drive	r.MSG.ACC
	Lit. '{Each/every} train	has driver.'		
b.	Të gjithë studentët	kanë	lexuar	(*nga) libra.
	PL all student.DF.MPL.NC	have.prs.3	PL read.PTP	DISTR book.FPL.ACC
	Lit. 'All the students (ha	ve) read books.'		

Although a distributive interpretation is intuitively available with nga-marked objects, as in (6a), as well as with bare objects, as in (9), this interpretation does not arise for the same reason in both cases: nga-marked nominals are indefinite DPs overtly signaled as distributive by the nga marker, while distributivity with bare nominals is but a consequence of their scopelessness.

2.3. The respective positions of Key and Share

As predicted by Choe's theory, distributive marking is to a large extent insensitive to the respective linear positions of Key and Share. They must however stand as co-arguments within a clausal domain, with *arguments* including an *event argument*. In the examples in (10) through (11) below, which confirm these generalisations, we contrast — whenever possible — nga-less and nga-marked indefinites with bare nominals. The semantic contrast between the two or three competing options available in each paradigm appears as regular: V-governed bare nominals are semantically incorporated into the predicate, nga-indefinites are obligatorily construed as distributive, and nga-less indefinites, when they compete with both bare and nga-marked forms, are preferably construed

as *non*distributive — in other words assigned wide scope with respect to the quantified coargument.

Key = nominative subject; Share = accusative object:

(10) a. Dyhulumtueskanëpropozuarteorema.twoscientist.MPL.NOMhave.PRS.3PLpropose.PTPtheorem.FPL.ACCLit.Lit. 'Two scientists (have) proposed theorems (to solve this problem).'

b. Dy hulumtues e kanë propozuar **një teoremë**

two scientist.MPL.NOM 3SG.ACC have.PRS.3PL propose.PTP one theorem.FSG.ACC

Lit. 'Two scientists (have) proposed one/a theorem (to solve this problem).'

[preferred reading: same theorem for both scientists]

c. Dy hulumtues e kanë propozuar **nga një teoremë**

two scientist.MPL.NOM 3SG.ACC have.PRS.3PL propose PTP DISTR one theorem.FSG.ACC

Lit. 'Two scientists (have) proposed one/a theorem each (to solve this problem).'

Choe's theory predicts that a quantified phrase occurring as a *non*-argument (e.g. as a dislocated topic) should fail to provide a Key for nga-distributive marking: this prediction seems borne out, as witnessed by the contrast between (11a) and (11b):

(11) a.	Secili	person	e	ka	(?nga	a)	një	vend
	every	person.MSG.NOM	1 3SG.ACC	have.PRS	s.3sg	DISTR	one	place.MSG.ACC
	që	ai	e	prefer	on.			
	that	3msg.nom	3sg.acc	prefer	.PRS.3	ßG		

Lit. 'Every person has a (different) place that he prefers.'

b. Për	secilin	person,	ekzisto	on (* ng a	ı)	një	vend
for	every.MSG.ACC	person	exist.PRS.3SG	DISTR	one	place.	MSG.NOM
që	ai		e	prefero	n.		
That	3MSG.NOM	1 3sg.	ACC	prefer.I	PRS.3S	G	

Lit. 'For every person, there is a (*different) place that he prefers.'

In (11a) nga-marking is felt as acceptable though superfluous, since the nga-less indefinite object is construed in this context as distributive (the bare option being unavailable here, due to the restrictive relative). In (11b), on the other hand, nga-marking is felt as sharply unacceptable.

2.4. When *nga*-marking looks obligatory

Some indefinite DPs appear as weakly felicitous if they are not *nga*-marked as distributive. Consider the examples in (12):

(12) a.	?Secili	e	ka	një	shtëj	shtëpi.		
	every.MSG.NOM	3SG.ACC	have.PRS.3SG	one/a	hous	e. FSG.NOM		
Lit. 'Everyone has one/a house.'								
b.	Secili	e	ka	nga	një	shtëpi.		
	every.MSG.NOM	3SG.ACC	have.PRS.3SG	DISTR	one/a	house. FSG.NOM		
	Lit. 'Everyone has one/a house.'							

We assume that the *nga*-less indefinites in (12a) owe their weak felicitousness to a semantic conflict between the intended reading of these sentences, which can only be distributive (due to the subject *secila* 'each one'), and the fact that, as witnessed by various examples above in section 2.3, *nga*-less indefinite objects are preferably assigned wide scope when they contextually compete with bare objects. The distributive-read object may indeed alternatively surface as bare, giving rise to a semantic incorporation effect, as in (13) below (see section 2.3 above):

(13)a. Secilikashtëpi.[compare (12a)]every.MSG.NOMhave.PRS.3SGhouse. FSG.NOMLit. 'Everyone has house (= a house).'

Under appropriate conditions, however, distributive marking may be licensed by a covert Key, which may however only be a quantified event, not a quantified participant. Thus, an example such as (14a) is semantically deviant at first glance since neither the sentence itself nor the absent discourse context provide a Key for distributive marking to be licensed. The same sentence becomes acceptable if the discourse context makes a quantified event argument recoverable. But if the Key is a quantified participant (rather than a quantified event), it must be overtly spelt out within the sentence for distributive marking to be licensed, as witnessed by the contrast between (14b-i) and (14b-ii): although the plural Key *na* 'us' is contextually recoverable in (14b-i), *nga*-marking on the object is rejected by all our consultants:

- a. Sot. ϕ^5 I (14)(?nga) dy libra. ka sjellë today 3SG 3PL.ACC have.PRS.3SG bring.PTP DISTR book.FPL.ACC two Lit. 'Today, (s)he brought (?DISTR) two books.' b. Sot. Beni ardhur parë dhe ka për të na today Ben.DF.MSG.NOM have.PRS.3SG come.PTP PTC 1.PL.ACC see and 'Today, Ben came to see us and *ø i sjellë (i) ka nga dy libra.
 - 3sg 3pL.ACC have.prs.3sg bring.prp DISTR two book.FpL.ACC Intended reading: 'he brought (implicit: *us*) two books each.'

⁵ Albanian is a generalised *pro-drop* language: for clarity's sake, we transcribe null subjects as empty categories (ø).

(ii) ø na I ka sjellë nga dy libra.
3SG 1PL.OBL 3PL.ACC have.PRS.3SG bring.PTP DISTR two book.FPL.ACC Lit. 'he brought us two books each.'

2.5. Pluractionality vs. Distributivity

Two important previous case studies on Share distributive markers — Gil (1988) on Georgian and Farkas (1997) on Hungarian — bear on cardinal reduplication. In KA, distributivity is marked by an independent functional word, nga, which — like Romanian *cîte*, cf. fn.11) — linearly precedes the cardinality marker (see below section 3). Although some important properties seem shared by nga-distributive marking and cardinal reduplication as described by Gil and Farkas, we find at least two discrepancies between the reported Georgian and Hungarian data, and the KA data.

2.5.1. Singular and plural indefinites

Farkas (1997) points out that in Hungarian the morpheme *egy* ('one', 'a(n)') contrasts with other cardinals in that it may be reduplicated in contexts where other cardinals may not: according to Farkas, *egy* may reduplicate regardless of the individual or situational nature of the Key variable, whereas other reduplicated cardinals are only licensed when the Key variable is of the individual type. Farkas further illustrates this contrast with the following minimal pair, where the Key variable is situational:

(15) a. Ahányszor **egy-egy** híres személy meglátogatta a várost,

	whenever a-a	famous p	person visited th	ne town
	elvitték	a kastély	ba.	
	they-took-him	the castle	-to	
	'Whenever a fame	ous person	visited the town, they	took him
	to the castle.'			
b.	*Ahányszor két- l	két	híres személy	meglátogatta a várost,
	whenever two-tw	WO	famous person visite	ed the town
	elvitték	а	kastélyba.	
	they-took-them th	ne	castle-to	
	Lit. 'Whenever tw	vo-two fam	ous people visited the	e town, they took them
	to the castle.'			

(Hungarian examples adapted from Farkas 1997, ex. (47) and (50))

In KA, we do not find any similar contrasts between the singular and plural cardinals with respect to nga-marking. All cardinals may be nga-marked as dependent on either an individual variable (a participant argument) or a situational variable (an event argument). We propose to analyse this contrast between Hungarian and KA along the following lines. Albanian nga is a

distributivity marker which must occur in an indefinite DP identifying the Share in the distributive relation. *Nga* is thus excluded from such exemples, for it would be occurring within the Key constituent.

2.5.2 Sorting out 'distributive' readings

Gil (1988) describes reduplicated cardinals in Georgian as triggering three different distributive readings, whose proposed glosses are reproduced in (16) below:

- (16) a. Orma k'acma sami čanta c'aiγo
 two.ERG man.ERG three.ABS suitcase.ABS carried.3SG
 'Two men carried three suitcases.'
 - b. Orma k'acma sam-sami čanta c'aiyo two.ERG man.ERG three-DIST.ABS suitcase.ABS carried.3SG
 - (i) 'Two men carried three suitcases each.'
 - (ii) 'Two men carried suitcases three at a time.'
 - (iii) 'Two men carried sets of three suitcases.'

(Georgian examples and glosses from Gil 1988: 1044)

Gil argues that reduplication in Georgian regularly triggers a distributive effect whose properties he proposes to capture under the following generalisation:

(17) Reduplication of an expression A forces an expression B containing A

to distribute over a constituent C disjoint from B.

Thus, under the reading glossed in (16b-i), the reduplicated cardinal (A) forces the object noun phrase (B) to distribute over the subject (C); under the reading glossed in (16b-ii), it forces the object (B) to distribute over a set of events (C) (the quantified event argument, under Choe's phrasing); and under the reading glossed in (16b-iii), it forces the cardinal (B) (containing itself: A) to distribute over the noun (C), creating 'three-unit' sets of suitcases in the interpretation.

In the KA counterpart of (16b), with *nga*-marking on the indefinite object, we find that the interpretation numbered (i) is the first one to arise out of context (19a); that the interpretation numbered (ii) may be licensed by some overt or implicit expression signaling pluractionality (18b); and that the interpretation numbered (iii) in (16b) cannot be separated from those numbered (i) and (ii): the collective vs. individual construal of the indefinite object is but an optional feature of the distributive readings:

i mbanin valigje. (18)a. Dy burra tri 3pl.acc carry.IMP.3PL three suitcase.FPL.ACC two man.MPL.NOM Lit. 'Two men carried three suitcases.' b. Dy burra i mbanin tri valigje. nga

two man.MPL.NOM 3PL.ACC carry.IMP.3PL DISTR three suitcase.FPL.ACC

Lit. 'Two men carried three suitcases each.'

[for each man: 3 separate suitcases, or one set of 3 suitcases]

c. {Shpeshë/regullisht/ për çdo javë},

often / regularly / every week

dy burra i mbanin **nga tri valigje**.

two man.MPL.NOM 3PL.ACC carry.IMP.3PL DISTR three suitcase.FPL.ACC

'{in context: Often/regularly/every week}...

(i) two men carried three suitcases each.'

[for each man, 3 different separate suitcases

or one different set of three suitcases]

(ii) two men carried three suitcases at a time.'

[in every carrying event, 3 different separate suitcases or

one different set of three suitcases]

In other words, the Key for the distributive dependency may be either a quantified participant, or a quantified event. In KA, *nga*-marking on the Share cannot simply signal the creation of a multiple unit or set of units, as glossed in (16b-iii). These results are expected under Farkas's and Choe's characterisation of distributivity as a semantic dependency, as well as under Choe's assumption that the Key and Share constituents must be co-arguments, with the Event standing as a type of argument. The above contrast between KA and Georgian would be consistent with the view that the distributive effect arises from two different sources in the two languages: in a cardinal-reduplication language such as Georgian, distributivity could be but a derived effect of a certain type of plurality, whereas the *nga* marker which we find in KA stands as a specialised predeterminer signaling an indefinite phrase as semantically distributive.

2. 6. The Extensional Dependency Condition

Farkas (1997) proposes a general constraint on distributivity which she calls the Extensional Dependency Condition (hereunder: EDC). She draws this constraint from data such as those in (19) through (21), from Hungarian: in (19) and (18), cardinal reduplication — described as marking distributivity in Hungarian — is acceptable, while it goes unlicensed in (20)-(21):

(19) a. Minden gyerek olvasott **egy** könyvet.

every child read a book.ACC

'Every child read a book.'

b. Minden gyerek olvasott egy-egy könyvet.

every child read a-a book.ACC

'Every child read a book [distributive].'

[Hungarian examples adapted from Farkas 1997, ex. (34)]

(20) a. Idönként, egy diák megbukik.
 occasionally a student fails
 'Occasionally, a student fails.'

b. Idönként, egy-egy diák megbukik.
occasionally a-a student fails
'Occasionally, a student [distributive] fails.'
[Hungarian examples adapted from Farkas 1997, ex. (43)]

- (21) a. Ha a tanár megbetegedne, helyettesítené egy szülö.
 if the teacher sick.COND.3 replace.COND.3 a parent
 'If the teacher were sick a parent would replace him.'
- b. *Ha a tanár megbetegedne, helyettesítené **egy-egy** szülö. if the teacher sick.COND.3 replace.COND.3 a-a parent [Hungarian examples adapted from Farkas 1997, ex. (40)]

(22) a. Mari kell találkozzon egy párizsi tanárral.

Mary must meet a Parisian professor-with

'Mary must meet a professor from Paris.'

b. *Mari kell találkozzon **egy-egy** párizsi tanárral.

Mary must meet a-a Parisian professor-with

[Hungarian examples adapted from Farkas 1997, ex. (41)]

The EDC states that for distributivity marking to be licensed, the domain variable, viz. the variable provided by the Key constituent, must be *extensional*, as opposed to *intensional*, the latter understood as subsuming: modal, irrealis, generic.

The EDC seems to extend to *nga*-indefinites in KA. All the *nga*-marked sentences reviewed so far abide by the Extensionality Condition, and further supporting evidence is given below.

As is the case for cardinal reduplication in Hungarian, *nga*-marking is licensed in KA by a pluractional adverb — as correctly predicted by the EDC:

(23)a. {Shpeshë/regullisht}, student nga një vjen. often/regularly DISTR a/one student.MSG.NOM come.PRS.3SG Lit. 'Often/regularly, a student comes (a different student every time).' b. Arta çdoherë i lexon dy libra. nga

Arta.DF.FSG.NOM always 3PL.ACC read.PRS.3SG DISTR two book.FPL.ACC

Lit. 'Arta always reads two books (two different books every time).'

We assume that the interpretation of such sentences must involve an implicit quantified event argument which the pluractional adverb makes recoverable. In other words, for *nga*-marking to be felicitous in (23a) and (23b), these sentences must be understood as elliptical equivalents of (24a,b) — where italics indicate ellipsis:

(24) a.{Often/regularly}, a different student comes *every time I'm at the office*.

b. Whenever Arta reads, she reads two books at a time.

Nga-marking is on the other hand clearly disallowed in such examples as (25) and (26), which are KA analogues of (19) and (20) in Hungarian:

(25)	Nëse prot	rofesori ishte			sëmurë,				
if	teacher.DF.	MSG.NOM ł	be.Pst.3SG	sick	2				
(*nga) një stude	ent	duhej	për		ta	zëve	endësuar.	
DISTR	a stude	nt.MSG.NOM	be.PST.3SG	РТ	ſC	3SG.ACC	repl	ace.PTP	
Lit. 'If	Lit. 'If the teacher were sick, a student should replace him.'								
(26)	Arta	duhet							
	Arta.FSG.	NOM must.PR	s.3sg						
	ta	takojë	(*nga)	një	pr	ofesor	në	Paris.	
	3SG.ACC	meet.PRS.350	G DISTR	a	tea	cher.MSG.ACC	in	Paris. MSG.ACC	
	Lit. 'Arta	must meet a t	teacher in Par	is.'					

Further independent KA evidence supporting the EDC is provided by the minimal pair in (27):

(27)	a. Çdo njeri	i	ka		dy	sy.
	Every man.MSG.NOM	3pl.acc	have.PRS	.3sg t	WO	eye.MPL.ACC
	Lit. 'Every man has two e					
	b. Çdo njeri	i	ka	nga	dy	sy.
	every man.MSG.NOM	3pl.acc	have.PRS.3SG	. DISTR	two	eye.MPL.ACC
		1 .	,			

Lit. 'Every man (in this story) has two eyes.'

The intuition here is that only the unmarked indefinite object in (27 a) allows us to construe the sentence as a generic statement about the human species. In (27 b), *nga*-marking on the object correlates with an anchoring effect leading us to understand that the statement is about a specific set of men — e.g. the characters in a story. This contrast is directly predicted by the EDC, and echoed

in English by the infelicitousness of floating *each* in the generic sentence in (28a), contrasting with (28b), construed as nongeneric:

(28) a. Monsters (*each) have three eyes.

b. (In this story), the monsters each have three eyes.

3. The internal syntax of nga DPs/ The morpheme nga: its nature and distribution

Nga is an uninflected morpheme in all its uses. *Gut et al.* (1999) and Agalliu et al. (2002) claim that it is, etymologically, a locative adverb indicating Source or Origin, and that it may be identified today as a preposition governing a noun phrase Case-marked as nominative and theta-marked as Source, Origin, Cause, or Vague Tense. We provide illustrative examples in (29a-e):

(29)	a. Të ikim	nga	shkolla.
(=-)			onnone

get-out.PRS.1PL school.FSG.NOM

Lit. 'Let's get out of the school.'

b.	Një	ofertë	nga	kjo	agjiensi	amerikane		
	an of	fer.FSG.NOM		DM.FSG.NOM	agency.FSG.NC	M american.FSG		
	Lit. 'Here is an offer <i>from/by</i> this American agency.'							

c.	ø	e	kam		lexuar		një	ese	
	1sg 3	BSG.ACC	have.PRS.1SG	read	.PART	an	essay	.FSG.ACC	
	të	shkru	ar nga	një	shkrimtar		i		ri
	MSG.	ACC write	e.PTP.FSG	a	writer.MSC	.NOM	MSG.N	ОМ	young
	Lit. 'I read an essay written by a young writer.'								

d. I sëmuri është dobësuar **nga** MSG.NOM patient.DF.MSG.NOM be. PRS.3SG weaken.PTP ethet sot. fever.DF.FPL.NOM today

Lit. 'Today the patient is weakened by fever.'

e.	Bora	e	parë	këtu	bie
	snow.DF.FSG.NOM	DF.FSG.NOM	first	here	fall.prs.3sg
	nga	fundi	i		vjeshtës
	end.DF.MSG.NOM	DF.MSG.NOM		autum	n.DF.FSG.OBL

Lit. 'The first snow falls here by the end of fall.'

Nga also occurs as a partitivity marker within a DP, which we may view as an extension of its Source-marking effect:

(30). a.	Një nga n	nësimet	e	tij	është	ky.	
	one lesson.DF	S.MPL.NOM MPL	.NOM PC	oss.3msg	be.PRS.3SG	DM.MS	G.NOM
	Lit. 'One <i>of</i> his lessons is this one.'						
b.	Ку	është	një nga	n filozofët		tanë.	
	DM.MSG.NOM	be.PRS.3SG	one	philosoph	er.DF.MPL.NOM	i	POSS.1PL
	Lit. 'This is of	ne of our philos	sophers.'				

Finally, *nga* occurs with a distributive interpretive effect in VP-adjoined phrases surfacing as strings of the form [Cardinal *nga* Cardinal], e.g. *dy nga dy* 'two by two'. This construction is only licensed with precise numerals, contrasting here with imprecise low-quantity markers.

(31). a.	Profesorët		i	kanë			parë			
	teacher.DF.MI	PL.NOM	3pl.ac	CC	have.P	PRS.3PL			see.PTP	
	tridhjetë	studen	të,		dy	nga	dy.			
	thirty	studen	t.MPL.A	CC	two	NGA	two			
	Lit. 'The teach	ners saw	v thirty	student	s, two b	y two.'				
b	. *Profesorët		i		kanë		pa			
	teacher.DF.MP	PL.NOM	3pl.ac	CC	have.P	PRS.3PL	see.PT	ГР		
	tridhjetë		studen	ıtë,			pak	nga	pak.	
	thirty	studen	t.MPL.A	CC		(a) few	W NGA	(a) fev	v	

Lit. 'The teachers saw thirty students, (a) few by (a) few.'

Dy nga dy-type phrases have exact counterparts in English, where the two cardinals are linked by the preposition by — interestingly also often an available translation for nga in its prepositional uses. As their English analogues, dy nga dy-type phrases are banned from argument positions they only occur as VP-adjuncts — and cannot contain an overt lexical noun:

(32)	*Profesorët		i		kanë	pa
	teacher.DF.MPL.NOM		3PL.ACC		have.PRS.3PL	see.PTP
	dy nga		dy	studen	ıtë.	
	two	DISTR	two	studen	t.MPL.ACC	

Lit. 'The teachers saw two by two students.'

These data lead us to conclude that even if distributive nga is historically derived from a preposition, it is not, from a synchronic viewpoint, the head of a prepositional phrase; it is a functional head within the DP. Note that a similar type of situation is exemplified in French by the linguistic change leading from the Source-marking preposition de (cf. (33a)) to the partitive marker

de (cf. (33b)), which may be shown to fill a functional head within the DP (cf. Kupferman 2004, Zribi-Hertz 2006, Carlier 2007):

(33). a. Il [_{DP}le seau] [PP de l'eau].а sorti 3MSG have.PRS.3SG draw.PART DF.MSG bucketde DF.SG water Lit. 'He drew the bucket out of the water.' b. Il bu $\begin{bmatrix} DP & de \end{bmatrix}$ l'eau]. a 3MSG have.PRS.3SG drink.PAR de DF.SG water Lit. 'He drank (some) water.'

Freely adapting Borer's (2005) assumptions regarding DP structure,⁶ we propose the schematic representation in (24) for indefinite DPs in KA:



⁶ We borrow from Borer the label # standing for Quantity, but we place cardinality expressions in the specifier of #P, rather than in its head, an assumption consistent with the fact that cardinals may be conjoined (*two or three dogs*), and that quantity expressions may have internal structure (cf. *a little, a few, a great deal of,* etc.). We use the conventional label 'NumP' for Number inflection (which Borer reidentifies as a Classifier). We borrow from Kihm (2003) the assumption that Gender is merged in the head responsible for nominality — the n° head. We follow Kayne (2009) in assuming that the lexical root, labeled L, is categorially unspecified. And we leave out modifier projections, which are irrelevant for the analysis of distributive *nga*.

(35) *nga dy lodra* 'NGA+two toys'



This analysis follows Borer (2005) in assuming that Quantity expressions (including cardinals) are not merged in D, but in a projection sitting below DP — the Quantity Phrase, #P — and that in indefinite quantised DPs, the D head is filled by a variable which needs to be bound by some quantifier. We likewise assume that all indefinite DPs in KA contain a variable in their D head, regardless of *nga* insertion; and we further assume that *nga* is merged in a functional head — labelled the 'Distributive' head — which optionally occurs above DP within the maximal noun phrase, selecting a quantised indefinite DP as its complement. When the Distributive projection fails to occur, the variable ($ø_e$) in the indefinite D head calls for an existential quantifier to bind it. When *nga* is merged in the Distributive head, it turns the variable in D into a special 'distributive' variable ($ø_d$), characterised (Choe 1987, 1991, Gil 1982a, 1982b, 1988, Farkas 1997) by its dependency upon another variable introduced in a quantified co-argument.

A legitimate question is whether *dy nga dy*-type adjuncts should be analysed as complex elliptical forms of distributive indefinite phrases, or whether they call for a distinct syntactic analysis. Although it is true that *dy nga dy*-adjuncts share with *nga*-indefinites their distributive effect on interpretation, we assume that they must be analysed as PPs, rather than as extended DPs. Evidence supporting this view is that *dy nga dy*-phrases have exact PP equivalents in languages which have no distributive pre-determiner (e.g. French, or English — and that they are — as their French or English homologues — altogether banned from argument positions. It is however possible that the availability of *nga* in *dy nga dy*-PPs should have prepared the ground for its development into a distributive pre-determiner in Kosovo Albanian: if such should have been the case, we should still need to understand why a similar development never affected such prepositions as English *by* or French *par*, although they occur in *dy nga dy*-type adjuncts with a distributive effect on interpretation.

4. Conclusions

The morphosyntactic properties of the Kosovo Albanian distributive marker nga lead us to analyse it as a specialised pre-determiner merged in a functional head dominating D within the maximal projection of N. As a morpheme which historically developed from a preposition into a pre-determiner, Albanian nga may be compared to the French partitive marker de, which followed a somewhat similar diachronic course — although the effect of the French pre-determiner on interpretation is partitive rather than distributive. According to German Albanologists Buchholz/Fiedler (1987: 351) distributivity in Albanian is expressed through nga, whose equivalent in German is the particle je (e.g, je zwei Blumen; in English: two flowers each).

We assume that distributive nga selects an indefinite DP as its complement and turns the content of D into a distributive variable calling for a distributive dependency — as analysed by Choe (1987, 1991), Farkas (1997) and Gil (2005) — to obtain. The distributional properties of nga-distributive marking in KA provide fresh evidence in support of Choe's theory of distributive marking, which claims that the Key and Share constituents involved in the distributive interpretation are unrestricted as to their surface syntactic positions but must crucially stand as coarguments — with arguments subsuming a davidsonian 'event' argument. Our results further support Farkas's Extensional Dependency Condition, while also revealing that so-called 'distributive' markers' actually vary as to their interpretive effects: in particular, cardinal reduplication, as instantiated in Hungarian and Georgian, and Share marking, as instantiated by distributive nga in Albanian, do not trigger exactly the same ranges of interpretations. We propose to derive this contrast from the assumption (borrowed from Farkas) that cardinal reduplication primarily signals pluractionality (with distributivity only a derived effect), while under our own complementary assumption, Share-marking, as instantiated by Albanian nga, straightforwardly signals an indefinite DP as distributive.

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