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## MACEDONIAN AND BULGARIAN *LI* QUESTIONS: BEYOND SYNTAX\*

is strikingly homogeneous. If no element is focused (i.e., moved to SpecCP), then, in both of clitics after the negative element ne and inversion of initial clitics with the following certain auxiliaries and differences in the usage of li questions, are also discussed including lexical differences between the two languages in the clitic/non-clitic status of languages, the tensed verb head-incorporates into li in C. Additional non-syntactic factors share a single stress. In Bulgarian, two different prosodic phenomena are relevant: stressing prosodic idiosyncracies in one language or the other. In Macedonian, the major prosodic syntactic uniformity of questions with li in the two languages is obscured by a series of garian reveals a complex interaction of syntax with non-syntactic factors. The underlying verb. When these factors are controlled for, the syntax of li questions in the two languages phenomenon affecting the placement of li is the option for certain sequences of words to ABSTRACT. The distribution of the yes/no-interrogative clitic li in Macedonian and Bul-

#### INTRODUCTION

ety of non-syntactic phenomena by comparing aspects of two very closely related languages, Macedonian and Bulgarian. These languages belong to out differences between languages which share much of their grammatical ten proven especially useful to compare related languages, thus teasing what structures and processes are possible in human languages. It has of limits and causes of variation in Universal Grammar, that is, to establish Much recent work relies upon cross-linguistic comparison to elucidate the structure. In this paper we investigate the interaction of syntax with a vari-

Gegovski, L. Hammer, R. Izvorski, T. King, M. Markovik, M. Mihaljević, L. Mitkovska, B. the paper, which evolved through the aforementioned talks into its present form. takes, of course, are ours alone. The order of the authors' names reflects the ontogeny of and 1996 (Billings, Kramer and Rudin), and Cornell University 1996 (Billings). Any mis-Slavic and East European Languages meetings in 1993 (Rudin), 1994 (Rudin and Kramer), D. Zec, anonymous NLLT reviewers, and audiences at American Association of Teachers of W. Browne, D. Ćavar, L. Čurapov, W. Derbyshire, B. Englund Dimitrova, V. Friedman, D Nilsson, E. Petroska, L. Reardon, J. Toman, O. Tomić, V. Vačkov, M. Vigario, M. Votruba \* Thanks are due to J. Allen, R. Alexander, P. Ambrosiani, J. Barnes, Ž. Bošković,

are considerable. related languages will involve relatively simple factors, even if their effects two languages diverge. We expect that differences between such closely It is thus of particular interest to note cases in which the grammars of the of the contact-induced grammatical features common to the Balkan area areally related: both participate in the Balkan Sprachbund, sharing many the same genetic subfamily, Eastern South Slavic. In addition, they are

to produce contrasting surface constituent orders. Differences in the uscontrasts between the two languages interact with their common syntax respect to other clitics. We argue, however, that the syntax of li and in appear to have distinct conditions on the placement of li, particularly with ferences in the two languages. On the surface, Macedonian and Bulgarian differences turn out to be due to non-syntactic factors, both phonological age of li further differentiate the two languages. Thus, apparent syntactic fact of most clitics is identical in the two languages. Several prosodic the interrogative clitic li, which displays interesting similarities and difgrammar components which significantly affect the surface form of the donian and Bulgarian questions are located not in the syntax but in other (prosodic) and pragmatic. The rather striking contrasts between Mace We examine here one construction, the yes/no question formed with

we present an analysis unifying the syntactic structure of li questions in otherwise-unstressable clitic, to be stressed (Section 5.2). Also in Bulthe two languages (Section 3). In Section 4 we provide a sketch of the word-order differences between Macedonian and Bulgarian (Section 2) of li in Macedonian. nally, in Section 6, we show how pragmatic factors limit the acceptability or participle fronting complicate the word-order picture (Section 5.4). Fi-(Section 5.3). In both languages, constructions with non-clitic auxiliaries garian, pronominal and auxiliary clitics are prohibited from being initial Bulgarian the negative element ne causes the following element, even an under certain circumstances, share a single word stress (Section 5.1). In ment to obscure its syntactic uniformity. In Macedonian two lexical words prosodic peculiarities in the two languages which interact with li placeprosodic systems of the two languages. Then (Section 5) we discuss several The paper has the following organization: after a description of some

noted where pertinent; see Comrie (1997) for interesting discussion of the as discrepancies between the prescriptive standard and actual usage, are role of prescriptivism in Slavic linguistics Macedonian and Bulgarian. Regional and individual differences, as well Unless otherwise specified, the data we consider are from Standard

### BACKGROUND

tive yes/no questions in the two languages, while (3) and (4) show the same radically different from its position in Bulgarian. Examples (1) and (2) (Throughout the paper *li* is boldfaced in examples.) disparity in negative questions, and (5) and (6) in conditional questions. display precisely opposite patterns of grammatical word order for affirma At first glance, the position of li in some Macedonian questions appears yes/no questions may be formed by adding li to a declarative sentence In both Macedonian and Bulgarian, as in several other Slavic languages

(1)a. G vide 117 (Macedonian)

Did (s)he see him?

saw3.SG Q himACC Vidja li go?

(3)anot him ACC saw2.3G Q vide

<sup>(2)</sup>a. Ģ \*Go vidja li? \*Ne go li vide? \*Vide Ii go? Ne go Ne li go vide? Did (s)he see him? him<sub>ACC</sub> saw<sub>3.SG</sub> Q Didn't (s)he see him? li? (Macedonian) (Bulgarian)

the sake of parallelism with the Macedonian examples in (5). Clitic doubling is obligatory 5.1 below. In (6) we include the clitic gi, which 'doubles' parite 'the money (p1.)', for suggests that confusion with neli 'Is it not the case that ...?' may be involved; see Section tions; see, e.g., Rudin (1997a). Not all Macedonian speakers accept (3c). Olga Tomić (p.c.) in Macedonian with definite or specific objects, but generally optional and colloquial in Bulgarian (2a), (4a) are acceptable as echo questions, but not as normal yes/no ques

(Bulgarian)

MACEDONIAN AND BULGARIAN I.J QUESTIONS

(4)a. \*Ne go vidja li? Ne go li vidja? (Bulgarian)

\*Ne li go vidja? Didn't (s)he see him?

not him ACC Q saw3.56

(5)a.parite? are2.SG himdat themacc givenm.SG Q  $\Sigma$ money + the nm ūΞ.

(Macedonian)

(6)a. \*Si mu (gi) dal li parite?

Ġ

\*Dal li si mu gi parite?

Have you given him the money?

(Bulgarian)

σ given<sub>M.SG</sub> Q are<sub>2SG</sub> him<sub>DAT</sub> them<sub>ACC</sub> money + the Have you given him the money? li si (gi) parite?

questions without such clitics, the strikingly divergent pattern of grammat-(7) through (9). ALL-CAPS glosses indicate focus throughout the paper. ical word orders generally disappears; compare the (a) and (b) versions of Examples (1) through (6) all involve pronominal or auxiliary clitics.  $^2$  In li

Kniga li čita book Q read3.sG

(Macedonian)

to the left of the slash; feminine to the right ('him-it/her'). R = reflexive. dative pronominals in the following table. Forms separated by a slash are masculine-neuter 2 The clitics most relevant for li placement are the 'be' auxiliaries and accusative and

			Macc	<b>1accdonian</b>	3					Bul	Bulgarian			
	İs	2s	ls 2s 3s lp 2p 3p R	d.	2p	3p	R	Îs	2s	is 2s 3s lp 2p 3p R	ĺр	2p	$\frac{3}{9}$	R
7	nins	<u>s</u> .	c	sme	ste	se		sâm	SI.	æ	sme	ste	Sâ	
ACC	me	<del>c</del>	go/ja	nè	٧e	<u>0'0</u>	se	me	6	go/ja	≅.	Vi	<u>aa</u> .	se
DAT	₹.	≓.	ti mu/i	Ξ.	Vi	m.	≅.	⊒.	≇.	mш/i	₽.	≤.	ij	82.

Tomić (1996a, 1996b) for Macedonian. See Avgustinova (1994) and Hauge (1976) for full details on the Bulgarian clitic system;

- Ö book Q read3.5G Kniga li čete Anna?
- Is Anna reading A BOOK? (Macedonian)
- (8)a. Zboruvate li angliski? speak<sub>2.PL</sub> Q English
- Govorite li anglijski? speak<sub>2.PL</sub> Q English Do you speak English? (Bulgarian)
- (9)afrom two half-truths becomes<sub>3.SG</sub> Q whole Od dve poluistini stanuva li celina? (Macedonian)
- Ö from two half-truths becomes  $_{3.86}$  Q one whole Ot dve poluistini stava Do two half truths make a whole one? li edna cjala? (Bulgarian)

other clitics, or different clitic positions in Macedonian and Bulgarian. This prosodic, not syntactic reasons. in li questions with clitics does differ between the two languages, but for to the verb-adjacent clitic cluster is identical in two languages. Word order it appears identical, but also in (1) through (6). The syntactic relation of li is the same in both languages, not only in cases like (7) through (9) where is unnecessary, however. We argue below that the syntactic position of li At this point one might posit differences in the placement of li relative to

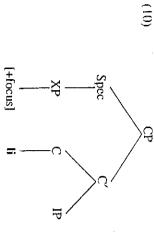
## 3. SYNTACTIC ANALYSIS

the corresponding Macedonian construction as well.3 In fact, the proposed al. (1997) for Bulgarian li questions, which straightforwardly accounts for We adopt the analysis proposed by Rudin et al. (1997) and Izvorski et

li. Slovenian no longer uses li, though SSKG (1975, p. 600) reports archaic examples. + li and V + li structures (King 1995, pp. 137-53; Rudin et al. 1997), though V + li is that Czech is limited to the V + li structure. Whereas Croatian Church Slavonic texts including one apparently clause-initial example of li. Toman (1996, pp. 508-09) reports infrequent in matrix clauses. Cf. also Billings (1996) for a phrasal-affix analysis of Russian <sup>3</sup> Much of this analysis also holds for other Slavic languages. Russian has both XP

structure is arguably clearer in Macedonian, where it is not obscured by prosodically-based word-order constraints.

Under the Izvorski/King/Rudin analysis, *li* is a yes/no-interrogative particle which can also check a focus feature. As an enclitic, it follows a stressed element. Following King (1996), Rivero (1993), and Rudin (1993), we assume that *li* is in C, as suggested both by its interrogative clause-typing function and its nonoccurrence with other complementizers, in both languages. When C is [+ focus], it checks a [+ focus] feature on a fronted focus phrase in SpecCP (by specifier-head agreement), as in tree (10):



This 'XP + li' structure is seen in (7) above, where the focused phrase is kniga 'a book' (XP = DP); more examples are given in (11), with a focused PP, and (12), with a more complex focused DP. Brackets mark the focused constituent.<sup>4</sup>

[Niz gradinata] li šetaše?

through garden + the Q walked<sub>2.8G</sub>

(Macedonian)

b. [Prez gradinata] li xodeše?

through garden + the Q walked<sub>2.5G</sub>

Were you walking THROUGH THE GARDEN?

(Bulgarian)

do exhibit XP + h (Mihaljević 1997), in Modern Serbo-Croatian the use of XP + h is extremely limited, apparently to single-word XPs, and not accepted by all speakers; see examples in Rivero (1993, p. 568), Wilder and Ćavar (1994, p. 33) and Tomić (1996b, p. 816). Questions with h in Bulgarian have received considerable attention (e.g., Izvorski (1994), King (1995, 1996, 1997b), Legendre (1998), Penčev (1993), Rivero (1993), Rudin (1993, 1997a)). Macedonian h questions are discussed by Friedman (1993, pp. 286–87) and Tomić (1996b). Englund (1977) is a corpus study of yes/no questions in both languages, and her (1979) article addresses the usage of yes/no questions.

(12)a. [Tvojot malečok bratučed] li ke gi čita

your + the little cousin Q will them<sub>ACC</sub> read<sub>3.8G</sub>

knigite? (Macedonian)

books + the

b. [Tvojât malâk bratovčed] li šte čete

your + the little cousin Q will read<sub>3.5G</sub>

knigite? (Bulgarian)

books + the

The focused phrase may be preceded by a topic (presumably adjoined to

Will YOUR LITTLE COUSIN read the books?

CP) and/or other CP-external material such as conjunctions

3)a. Ama ti snošti [niz gradinata] **li**but you last-night through garden + the Q

šetaše? (Macedonian)

walked<sub>2.SG</sub>

b. Ama ti včera večer [prez gradinata] li
 but you yesterday evening through garden + the Q
 xodeše? (Bulgarian)
 walked<sub>2.SG</sub>
 But yesterday evening were you walking THROUGH THE GARDEN?

(i) Novata **ii** kola prodade (ili starata)?

new + the Q car sold<sub>3.SG</sub> or old + the

Did (s)he sell the NEW car (or the old one)?

(ii) Izmamenite li štedači na TAT i na srodnite piramidi...?
 cheated + the Q savers of and of similar + the pyramids
 [Is it] the cheated savers of TAT and of similar pyramid schemes...?

This type of construction may be more typical of Macedonian than of Bulgarian (Englund 1977, p. 119). We do not discuss here the conditions under which it occurs. An entire IP can also be focused in Bulgarian, with *li* at the end of the clause and echo interpretation; see note 1.

<sup>&</sup>lt;sup>4</sup> In some cases *li* appears after a nominal modifier instead of at the end of a focused DP. Rudin et al. (1997) discuss the Bulgarian example (i); (ii) is from a recent Maccdonian newspaper:

When no focus phrase precedes *li*, V raises to check *li*'s interrogative feature. In Bulgarian, (14) is the structure of neutral, non-focused questions. In Macedonian, structure (14) exists, but may imply focus on the verb or predicate; the most neutral yes/no question type does not involve *li* at all. Perhaps *li* in Macedonian always checks a focus feature, even in this 'V + *li*' structure. We return to this issue in Section 6. Slightly different proposals, such as that of Izvorski (1995), in which *li* heads FocusP rather than CP, would also be compatible with our claim that, in both Macedonian and Bulgarian, *li* either incorporates a (focused or unfocused) verb or checks a focus feature on a phrase in its specifier.

The 'V + li' structure has already been seen in both (8) and (9), as well as (1) through (6) above; two further examples are given in (15) and (16):

(15)a. Šetaše li niz gradinata? (Macedonian)
walked<sub>2.SG</sub> Q through garden + the
b. Xodeše li prez gradinata? (Bulgarian)
walked<sub>2.SG</sub> Q through garden + the

Were you walking through the garden?

- (16)a. Ře gi čita li tvojot malečok bratučed will them read<sub>3.SG</sub> Q your + the little cousin knigite? (Macedonian)
- b. Šte čete li tvojat malâk bratovčed

  will read<sub>3.SG</sub> Q your + the little cousin

  knigite?

  books + the

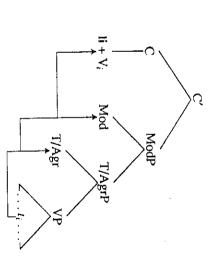
  (Bulgarian)

Will your little cousin read the books?

Example (9) shows that, like the XP + li construction, V + li may be preceded by a topic phase; the PP od dre poluistini in this case. Note that the portion of tree (14) labeled ' $li + V_i$ ' is realized in these sentences as verb **followed** by li (šetaše li in (15a) for instance). For reasons which will become clear below, we analyze this as right-adjunction of V to li, followed by prosodic inversion (Halpern (1995); see also King (1997b)), rather than left-adjunction. Another possibility is that V might not incorporate syntactically into C at all, but move only as high as the highest functional head within IP, right-adjacent to li in C. Prosodic inversion would operate in the same way described below. The choice between this and the right-adjunction analysis is immaterial for the rest of our analysis; we assume assume right adjunction for the sake of concreteness.

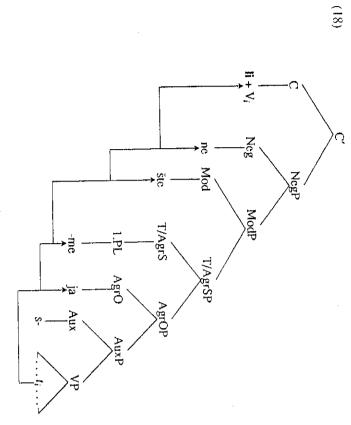
The verb raises through a series of functional heads located between V and C in the tree, incorporating and carrying along with it tense, agreement, modality, negation, and other functional categories. In (16) a modal, ke/ste 'will', is part of the complex V whose raising path is shown in (17):

(17)



Other functional projections through which V raises include Neg, Aux, and object-agreement categories, headed by the negative particle ne, auxiliary clitics, and pronominal clitic objects, respectively. (See Rudin (1997b) on pronominal clitics as object agreement.) A yes/no question containing these categories thus has roughly the structure (18); the raised V incorporates all the heads through which it has passed, resulting in a complex verbal head adjoined to li in C, shown in (19a). (The combination of ne 'not' and šte 'will' is "rather bookish" (Hauge 1976, p. 18) and usually replaced in contemporary Bulgarian by njama 'won't'. We use the less common form here for clarity of reference to the tree diagram. In Macedonian both ne ke 'will not' and nema 'won't' are commonly used.) Prosodic inversion

then repositions *li* with respect to this verbal complex; in the case of (19b) *li* ends up within the verbal complex.



(19)a. [c**i**+ [ne šte sme ja pokanili]]

b. Ne šte li sme ja pokanili?
 not will Q be<sub>I,PL</sub> her<sub>ACC</sub> invited<sub>PL</sub>
 Will we not have invited her?

The problematic cases with different surface word orders in Macedonian and Bulgarian, in (1) through (6), are precisely those which contain pronominal or auxiliary clitics or negation. We claim that these do have a syntactic structure like (17) or (18); that is, in spite of the fact that *li* does not always follow the verb, they are all instances of the V + *li* construction first shown in (14). (Constituent order differs between the two languages only in the V + *li* construction. The XP + *li* construction does not differ except in usage; see Section 6 below.) The different surface outcomes of the C node containing *li* and the complex raised verb in Macedonian and Bulgarian are accounted for by several prosodic factors, relevant to one language or the other, which affect the operation of prosodic inversion differently in the two languages, as we will see in the following sections.

# THE PROSODIC/CLITIC SYSTEMS OF MACEDONIAN AND BULGARIAN

Before discussing the prosodic phenomena affecting the position of *li*, we provide some background on the prosodic and clitic systems of Macedonian and Bulgarian. The two languages' prosodic systems, especially the stress system within the word, differ significantly. Macedonian has regular antepenultimate stress (and initial stress in mono- or disyllabic words), while in Bulgarian any syllable may be stressed. This contrast is illustrated in (20). (Examples in Sections 4 and 5 show clitics in italics and stressed syllables in ALL-CAPS.)

(20) STOLbište MOmiče KAranfil (Macedonian) STÂLbište moMlče karamFIL (Bulgarian)

staircase

girl

carnation

Furthermore, the addition of clitics to the end of a word in Macedonian may affect stress placement, shifting it to the antepenultimate syllable of the Prosodic Word (PrWd), including any clitics, while in Bulgarian addition of clitics does not generally affect the position of stress. In (21) we see that the addition of each monosyllabic clitic shifts the stress rightward by one syllable.

(21)a. DOnesi Bring!

(Macedonian)

b. doNEsi go Bring it<sub>ACC</sub>!

(Bulgarian)

doneSI mi go Bring meDAT itACC!

On the other hand, in Bulgarian stress normally remains constant when

suffixes and clitics are added:

<sup>&</sup>lt;sup>5</sup> The distinction between true antepenultimate stress and initial (with less than trisyllabic PrWds) is not just a descriptive device. Koneski (1967, pp. 140–41), discussing the standard language, reports that stressed syllables may be distinctly longer when initial in mono- and disyllabic words. Hendriks (1976) describes a western dialect of Macedonian in which the inventory of vocalic phonemes differs between these two environments. See Baerman (1998), Comrie (1976), Franks (1987, 1989, 1991), Garde (1968), Halle and Kenstowicz (1991), Hammond (1989), Hendricks (1976), Kager (1993), and Kenstowicz (1991) for discussion of theoretical issues surrounding antepenultimate stress, a rather exotic pattern cross-linguistically. These works also discuss exceptional words, mostly borrowings, with penultimate or final stress.

(22)a.doneSI bring

(Bulgarian)

Ò doneSI go

Bring it ACC!

9 doneSl mi go Bring medat itacc!

donian and thus does not pull the stress rightward.<sup>6</sup> Compare (23) to (21): Unlike other enclitics, li is outside the trisyllabic stress window in Mace-

(23)a. doNEsuvaš you are bringing

(Macedonian)

doNEsuvaš li? are you bringing?

consisting of clitic object pronouns, auxiliaries, and modal particles, is at the beginning of the sentence.8 In Bulgarian, the clausal clitics occupy so our discussion is limited to them. In Macedonian, these clausal clitics adjacent to V. It is the latter group that is important for the placement of li. One group of clitics is located within DP.7 A second group of clitics, are always proclitic to the tensed verb, as in (24), even if this places them basic positions of each type of clitic are identical in the two languages Macedonian and Bulgarian have very similar clitic inventories, and the

is present is discussed in Section 5.3 below. be initial. The word-order inversion that occurs when no preceding word the same position, except that the auxiliary and pronominal clitics cannot

(24)a. (JAS) *sum* 11

200 K Ažal.

(Macedonian)

amise youdatse Hace saidmse

AZ sâm

Ġ

90

KAzal.

(Bulgarian)

I annise youdatise thace saidmise

I told it to you.

antepenultimate syllable. 10 its first syllable, instead of shifting it onto a clitic which would be the the verb in Macedonian. A one- or two-syllable verb keeps the stress on Note that proclitics, unlike enclitics, do not affect the place of stress on

(25)a.mi medat itacc gavept 90 DAle (cf. \*mi GO dale)

(Macedonian)

They gave it to me

J mi MEDAT ITACC SAVEM.SG 99 DAL (cf. \*MI go dal)

He gave it to me

cally accented in Maccdonian, 11 as shown in (26). This lexically accented One invariably pre-verbal element, the negative particle ne, may be lexi-

enclific to a verb but do not discuss other contexts, such as XP + li. fi. Sawicka and Spasov (1997, pp. 213-14) mention that fi fails to cause stress shift when syllable of the clitics + V complex", which is accurate if "clitics + V complex" excludes (1996b, p. 387) notes that in V + Ii sentences "the stress falls on the antepenultimate stress (Englund 1977, pp. 119-120; Friedman 1993, p. 287; Tomić 1996a, p. 511). Tomić Elson (1976) and Franks (1989). Other studies discuss Macedonian li without marking <sup>6</sup> This fact has been missed in several works on Macedonian clitic prosody, including

syntactic position is identical in the two languages. For details see Baerman and Billings of possessive clitics is more circumscribed in Macedonian than in Bulgarian, but their (homophonous) dative rather than the possessive clitic. the clausal clitic cluster (cf. also Norman 1971). This construction probably involves the discusses briefly the apparent ability of possessive chies to appear out of their NP, within precedes the inflected verb with its clitics (and also precedes li, located in C). Halpern also "overlap". If an XP is fronted to SpecCP, this entire XP, including any associated clitics, that the clausal and NP clitics in Bulgarian are second-position clitics whose domains when the leading edges of a clause and an NP coincide. We disagree with his assumption pace Halpern (1995, pp. 227-28), who devotes an appendix to "overlapping domains" Tomić (1996a). This group of clitics, being DP-internal, does not interact with li at all. (1998), Elson (1976), Minova-Gurkova (1994, p. 57), Scatton (1984, pp. 427-30) and stituent of the DP (including adjectives and quantifiers but not adverbs or PPs). The use These nominal (definite article and possessive) clitics follow the first nominal con-

imperatives in Macedonian. Since li does not cooccur with these forms, we do not discuss them here: see Baerman and Billings (1998). 8 The clausal clitics generally follow rather than precede non-tensed verb forms such as

them". This is inaccurate, as examples (25a-b) show. ical words (with common unique antepenultimate stress) with the lexical words following 9 Tomić (1996b, p. 837, fn. 34) claims that in Macedonian "clitics [...] form phonolog-

stress to penultimate position. Macedonian has words with stresses in the same finalto antepenultimate position. Garde (1968, p. 32) and Kenstowicz (1991) also point out this trisyllabic window, with the addition of suffixes and non-li enclitics regularizing the stress stress on one of the last three syllables and added enclitics or suffixes regularize the Macedonian-Italian similarity. Macedonian appears to be very similar to certain Lucanian dialects, in which words show summary of the literature on the dual-position clitics in varieties of Italian. Specifically, <sup>10</sup> This asymmetry also occurs in Romance languages; cf. Peperkamp (1996) for a

does not accept stressed ne. Anderson (1996, pp. 188–89) considers Macedonian ne to have different constraints on its positioning than clitics, without commenting on its prosodic 11 This is a major assertion of Garde (1968), though one of our Macedonian informants

MACEDONIAN AND BULGARIAN IJ QUESTIONS

introduce it first for expository reasons. in Section 5.1 below. Although stressed ne is pragmatically marked, we ne is emphatic; we discuss two other, more neutral, negative stress patterns

(26)NE mi not medat tacc gaverl 90 DAle.

(Macedonian)

They didn't give it to me

Example (26) does not show clearly which accented word, ne or dale, hosts the clitics. Two plausible prosodic organizations are shown in (27a-b):

(27)a[NE] [mi go DAle]

[NE mi go] [DAle

stray adjunction; that is, clitics with a lexically accented word neighbor and syntactic bracketings match. Secondly, when the clitics are clausesyntactic unit with the tensed verb; the null hypothesis is that the prosodic normal directionality on only one side are hosted prosodically by that word regardless of their these arguments are inconclusive. Examples like (25) might simply be initial, as in (25), the only possible prosodic host is the verb. However, There are reasons to favor the bracketing in (27a). First, the clitics form a

clitic only on the left, instead of only on the right, exists in (28a), a sentence which has been cited repeatedly in the literature on Macedonian prosody The mirror image of this situation, that is, a string of clitics with a non-

kamo

(Macedonian)

where-to medat youdat tacc

(Elson (1993, p. 157))

Where (should) I (put) it for you? Where did that thing of yours get to on me?

(Franks (1989, p. 561))

ġ eVE ti voila youdar itacc Here it is (for you)

stray adjunction.<sup>13</sup> What we need to settle the matter is an example like is correct; 14 stress pattern clearly shows that the bracketing of (27a), applied in (29b) syllable from the end; entirely off the lexical word in the case of (28a) two lexically accented words. Sentence (29a) is such an example, and its sentative eve; there is no overt verb. The enclitics shift stress to the third (26), but with at least three syllables' worth of verbal clitics between the lexically accented word, like (25a-b), however, these could also represent This suggests that clitics may be prosodically hosted by the preceding Here, the only lexically accented word is WH-interrogative kamo or pre

(29)a.NE sme not are<sub>LPL</sub> him<sub>DAT</sub> it<sub>ACC</sub> given<sub>PL</sub> We didn't give it to him.

[NE] [sme mu go DAle]

bracketing is as shown, since prosodic enclitics (but not proclitics) affect The three intervening clitics fail to draw stress off of ne, indicating that the

edge of a Prosodic Word. in Bulgarian stress is lexically encoded. Enclitics in Macedonian affect the word prosody. Macedonian has regular antepenultimate word stress, while position of stress on their host and can serve as a diagnostic of the right To summarize this section, the two languages differ significantly in their

ne SME not are LPL himDAT it ACC taken PL We didn't take it from him HH ZEIe.

3

possibility that (i) is attested for some speaker or dialect of Macedonian. also contradicted by our data on li-insertion in Section 5.1 below. Still, we leave open the based perhaps on the notation in Garde (1968, p. 36), that the clitics are hosted by ne, is (i) with stress as shown is not actually given in any of these sources. Elson's assumption, 21-25, Koneski 1967: 139-210, or Garde 1968" (p. 157, n. 1; emphasis added). However, data as follows: "Items cited for illustrative purposes or their models, are from Lunt 1952: Our informants reject example (i), preferring the stress pattern in (29). Elson attributes his

commented that it is stylistically odd; perhaps something one would say to a small child is that thing you were going to show/tell me?" or "Where is it, my dear little one?" and which does not provide glosses. Our informants have translated it variously as "Where See Baerman and Billings (1998) for further discussion of the stress of this example 12 Both Elson and Franks apparently got this example from Koneski (1967, p. 163)

word, including participles, adjectives, and nouns. verbal adverbs. Verbal clitics do not affect stress in other types of preceding predicate interrogative stems (28a), imperative-like elements such as eve (28b), and, optionally, certain types of words is stress affected by verbal enclitics: imperatives (21a-c), WH-13 In fact, the examples in (28a-b) probably do not involve stray adjunction. Only in

modified), stating that the three clitics are hosted prosodically by ne. <sup>14</sup> Elson (1993, pp. 152-53) reports the following example (stress notation and gloss

# 5. PROSODIC DISTINCTIONS BETWEEN MACEDONIAN AND BULGARIAN

We turn now to a closer examination of several prosodic differences between Macedonian and Bulgarian, phenomena which occur in only one of the two languages and which differentially affect the placement of *li*. In Section 5.1 we consider a process unique to Macedonian, the fusion of two accented words into a single PrWd or Enlarged Stress Domain. In Section 5.2 we take up the prosodic properties of the Bulgarian negative element *ne*, which idiosyncratically stresses any following constituent. In Section 5.3 we discuss the restriction against initial auxiliary and pronominal clitics in Bulgarian. Finally, in Section 5.4 we outline differences due to the clitic vs. non-clitic status of particular auxiliaries and issues involving participle fronting.

# 5.1. Enlarged Stress Domain in Macedonian

We observe above (in Section 4) that *ne* in Macedonian can be lexically accented. It is also possible, however, for *ne* and the following verb to share a single PrWd stress; this possibility of stressing both lexical words as one PrWd accounts for the accessibility of both (3a) and (3c) above, and results in contrasts like (30):

(30)a. [NE] *Ii* SAkaš *da* Odiš? (Macedonian)

not *Q want<sub>2.SG</sub> to go<sub>2.SG</sub>*Do you (really) not want to go?

b. [NE sakaš] *li da* Odiš? (Macedonian)

not want<sub>2.SG</sub> Q to go<sub>2.SG</sub>

Don't you want to go?

In (30a) *li* follows the independent PrWd [NE]. In (30b), however, [NE sakaš] is a single PrWd and *li* follows it. Yet a third stress pattern for negative sentences in Macedonian, with *ne* as an inherently unaccented clitic, is introduced below (see (39) and Section 5.2); for now we restrict our attention to the two patterns in (30).

The construction with two lexically accented words stressed as a single PrWd has been called "accentual units" (Alexander 1995, translating the Macedonian term *akcentski celosti*); "collocational stress" (Elson 1993), and "enlarged stress domain" (Franks 1987). We adopt the last of these, abbreviated ESD. Word sequences which allow ESD include adjective +

noun (31), WH-interrogative + verb (32), and negation + verb (33). In the (a) examples each lexically accented word receives the predictable stress (antepenult if at least trisyllabic; otherwise, initial). <sup>15</sup> In the (b) examples, however, the entire two-word domain receives a single stress, on the antepenult. <sup>16</sup> PrWd boundaries are shown with brackets.

	(33)a.	(32)a.		(31)a.	
not me <sub>DAI</sub> it <sub>ACC</sub> gave <sub>Pl</sub> . They DIDN'T give it to me.	(33)a. [NE] [mi go DAle]	(32)a. [KOJ] [REče] who <sub>NOM</sub> said <sub>3.SG</sub>	left + the foot the left foot	[LEvata] [NOga]	Without ESD
not medat it $ACC$ gave $PL$ They didn't give it to me.	b. [ne <i>mi GO</i> dale]	b. [KOJ reče] <i>who<sub>NOM</sub> said<sub>3.SG</sub></i>	left + the foot the left foot	b. [levaTA noga]	With ECD

Additionally, as (31b) and (33b) show, clitics can appear between the lexically accented words and be included in the ESD. In (31) the definite article

15 Two peculiarities of ESD occur when the second lexically stressed stem is monosyllabic: The first, which Franks (1989) calls the "monosyllabic-head effect", prevents the stress from preceding the beginning of the second stem by more than one syllable, as shown in (i). The second is an exception to the monosyllabic-head effect just in case the entire ESD consists of exactly three syllables, as shown in (ii).

- (i) ne sum nur GO zel.

  not am him it taken

  I didn't take it from him.

  [Lunt (1952, p. 23)]
- ne BI dal. or NE bi dal.

  not would given not would given

  (He) would not have given. [= ex. 18a in Franks (1989, p. 559)]

Ξ

These also have non-ESD variants: NE sum mu go ZEL, NE bi DAL.

16 ESD forms are quite marked in Contemporary Standard Macedonian, being considered archaic or dialectal. In educated urban speech ESD forms tend to be little used, and in some cases are stigmatized, in spite of being codified in grammars of literary Macedonian (Koneski 1952, Lunt 1952). We cite examples (31)–(33) nonetheless to show the possible extent of ESD in the language. ESD forms are primarily a Western Macedonian phenomenon; see (38) below.

in (32) also allows medial clitics. and go are syntactically ordered before the tensed verb. The environment -ta is enclitic to the first constituent of the noun phrase; in (33) the clitics m

its ESD counterpart in (34b). The bracketing represents prosodic organiconstruction like (33a) is the verb. We repeat example (29) as (34a), with As argued in Section 4, the prosodic host of the clitics in a negative

(34)a. [NE] [*sme* not are LPL him DAT if ACC given PI mu 80 DAle].

[ne sme mu GO dale].

o

With ESD

We didn't give it to him

into li questions, as in (35) and (36): The bracketing in (34a-b) can be corroborated by turning these sentences

(35)a. [NE] li [sme mu not Q arelpl himdat itacc gaverl goDAle?] Without ESD

ۻ \*ne sme mu GO li dale?

With ESD

(36)a. \*NE sme mu go li DAle?

Without ESD

[ne sme mu GO dale] li?

With ESD

Didn't we give it to him?

the entire string. No other orders are possible. 17 Three hypotheses about ical non-ESD version (35a), li follows the first PrWd, [NE]. The grammatical ESD version (36b) comprises a single PrWd domain, and li follows The position of li depends on whether there is ESD or not. In the grammat-

as Halpern (1995); cf. Section 3: the placement of li are plausible within a prosodic-inversion account such

(37)a.Hypothesis A:

li follows first PrWd stress (Wackernagel's Law).

ġ Hypothesis B:

bracketing consistent with (27b) above: li follows first PrWd domain, assuming a non-ESD PrWd

[NE sme mu go] [DAle].

Without ESD

Ö Hypothesis C

bracketing consistent with (27a) above: li follows first PrWd domain, assuming a non-ESD PrWd

[NE] [sme mu go DAle]

our analysis above in (29) and (34). (36b), but incorrectly predicts (36a). Only Hypothesis C correctly predicts both attested forms: (35a) and (36b). Questions with li thus corroborate boundary following the first word stress; it correctly predicts the form in (35a), but incorrectly predicts (35b). Hypothesis B correctly predicts Hypothesis A predicts that li will appear at the first available syntactic

Eastern South Slavic (i.e., the Macedonian-Bulgarian dialect continuum): gives the following dialect division of accentuation of negated VPs in plex areal pattern of prosodic systems in Macedonian. Alexander (1991) non-tag questions. The roots of this disagreement probably lie in the comdidn't we?'. Most of our informants, however, accept ne + li sentences as view the sentence should be Neli sme mu go dale? 'We gave it to him, ne + li is simply the question particle neli 'isn't it so?'. Minova-Gurkova like (35a), though found in contemporary literature, are errors; in their (1987, p. 31) and Tomić (1996b, p. 836, fn. 33) both claim that sentences As mentioned above (note 1), there is some controversy over whether

(38)a. West ne GO gledam. ne go RAZbiram.

Central NE go GLEdam.

Ö

NE go razBIram

ne GO GLEdam.

Ç

East

ne GO razBIram

not him ACC see1.SG

not him ACC understand LSG

 $\Xi$ 

follows no PrWd - both instances of illicit inversion. 17 The following are also ungrammatical; in (i) li follows two PrWds, while in (ii) li

<sup>\*[</sup>NE]]sme mu go DAlc] **ti** 

<sup>(</sup>ii) \* [ne II sme mu GO date]

The West (= Western Macedonian dialects) has ESD stress. The Central Balkan Slavic area (= Eastern Macedonian dialects) has a non-ESD stress pattern and lexical stress on *ne*. The East (= Bulgarian) has no ESD and stresses the clitic following *ne* (see Section 5.2). <sup>18</sup> Speakers of western dialect background, who may not recognize non-ESD negative forms, may interpret *ne* + *li* as *neli*. Although not all speakers use them, however, both ESD and non-ESD forms (and *ne li* as well as *neli*) are available in Standard Macedonian. Englund (1977, p. 113), discussing the sentence *Ne li go poznavate?* 'Don't you know him?' notes that here "*ne li* does not have the same meaning as the Qluestion] P[article] *neli*, which is quite clear from the context". An anonymous reviewer provided us with several additional examples from contemporary written Macedonian on the World Wide Web in which *ne li* clearly does not mean 'isn't it the case that'. <sup>19</sup>

A complicating factor in the analysis of stress in negatives is the existence of a third pattern with *ne* as an unstressed proclitic. Koneski (1967, p. 167) lists the following options for stress with negated tensed verbs in Maccdonian:

- (39)a. *ne* and verb have separate stress (used when negation is emphasized)<sup>20</sup> [= "non-ESD" in the discussion above]
- b. ESD stress (semantically unmarked)
- c. proclitic ne; stress only on verb ("presupposes a certain consequence")

Koneski describes a state of affairs native to certain western dialects on which the standard language is based, but which has gained only limited acceptance among Macedonian speakers outside this western dialect area. In fact, some speakers do not use the ESD pattern, which Koneski considers the unmarked choice. As far as we are aware, all dialects do use both patterns (39a) and (39c), the latter resulting in the same position for

*li* in negative questions as ESD. Compare (40a) to (36b), repeated here as (40b):

(Macedonian)

ne sme mu GO dale **i**i?

Didn't we give it to him?

Ġ

A similar range of stress patterns is available for WH-word + verb; see (32b) for the ESD option. But only non-ESD stress is possible in questions in which *li* cooccurs with WH, lending an emphatic 'on earth' or 'the hell' meaning, as in (41a).<sup>21</sup> The ESD and clitic-WH counterparts of this example, (41b-c), are ungrammatical, although *li* in both cases follows the first PrWd:

(41)a. [STO] ii [NAJde] [VO nego]?!what Q found<sub>3.8G</sub> in him<sub>ACC</sub>Whatever did (s)he see in him?!

(Macedonian)

. \*[ŠTO najde] *li* [*VO* nego]?!

:. \*[što NAJde] *li* [*VO* nego]?!

The ungrammaticality of (41b-c) is not prosodic, but rather due to other factors. As Elson (1993, p. 158, n. 4) points out, while all other ESD pairs in (31) through (33) constitute a syntactic constituent, WH + verb does not. That problem aside, (41b-c) are pragmatically deviant. Since WH + verb ESD and clitic WH both imply lack of semantic emphasis on the WH element, they are incompatible with WH + li, which specifically indicates semantic emphasis on the WH element. Furthermore, question words are always focused and the remainder of the WH-question clause presupposed (i.e., Who did you see? presupposes You saw someone). This focus-presupposition structure is characteristic of the XP + li construction in (10), as argued in detail by Rudin et al. (1997). It would be pragmatically bizarre to have a WH-question with the V + li structure in (14), which is what (41b-c) appear to be.

To summarize this subsection, we have shown that a stress domain in Macedonian can be enlarged, allowing certain pairs of lexically accented

<sup>&</sup>lt;sup>18</sup> See Baerman (1998) and references therein for discussion of this dialect continuum's word-stress variation, e.g., at what point in the westward progression *razBlram* in (38b-c) becomes regularized as *RAZbiram* in (38a).

See also example (83) below.

<sup>20</sup> The phonological literature on ESD (Elson 1993, Garde 1968, Hendricks 1976) generally agrees that non-ESD is used when semantically emphasizing *ne* or WH. In certain ESD environments *ne* or WH is the only stressed constituent; cf. (30b); however, this element is not interpreted as semantically emphasized.

<sup>&</sup>lt;sup>21</sup> See Rudin (1997a) on WII + Ii in Bulgarian. One Macedonian informant rejected all WII + Ii questions.

ately after the stress peak. The interaction of optional ESD and placement of li after the first PrWd domain accounts for the range of positions of li distinction between the two languages. in Macedonian; lack of ESD in Bulgarian explains one constituent-order follows the first stress domain, passing up the chance to appear immedi-The addition of li to ESD and non-ESD environments makes it clear that l words, along with any clitics between them, to be stressed as one PrWd

# 5.2. Negative Stress Shift in Bulgarian

following ne is the verb, then ne behaves like a proclitic; cf. proclitic šie in itself, ne is invariably followed by a stressed constituent. If the element ties of the sentential negator ne in Bulgarian. Although it never bears stress The second prosodic process we discuss has to do with the unique proper-

It isn't raining. neg rain<sub>3.5G</sub> (42)a.

ne val.I.

(Bulgarian)

Ö It will rain will rain<sub>3.SG</sub> *šte* vaLl.

first clitic after ne bears stress: If however, one or more clitics intervene between ne and the verb, then the

(43)a. ne ME boLI.

(Bulgarian)

not me<sub>ACC</sub> hurts<sub>3.SC</sub>

It doesn't hurt me

Ö ne MI not meDAT REFL seems3.86 that It doesn't seem to me that ... se STRUva, če...

Ç ne SÄM ti not annisg youdan tiace giveness I haven't given it to you 20 DAla.

> The consensus in the literature is that ne forms a prosodic word with the tollowing constituent:<sup>22</sup>

(44)a. [ne ME][boLl]

[ne MI] se [STRUva]

[ne SAM] ti go [DAla]

the unbracketed clitics in (44b-c). We delay until example (48) below discussion of the prosodic affiliation of

derives from the role of stress in determining the position of li; see, e.g., clitic or inherently stressed) is not relevant to the current discussion, aside property of ne; see Halpern (1995, pp. 216-17) and Legendre (1998) for structures) or after the verb (in ESDs or if ne is proclitic). and thus does not influence the placement of li in the same way. So, when Macedonian, however, ne does not induce stress on the following element, is automatically placed after the constituent immediately following ne. In two differing approaches. The precise model (including whether ne is a the result is different: It ends up immediately after ne itself (in non-ESD li encliticizes to the first PrWd of the verb word, just as in Bulgarian. inverts past the first stressed element of the verb word, li in Bulgarian Rudin (1993, 1997a); Rudin et al. (1997); and Tomić (1996b). Since li Hauge (1976); Izvorski (1994); Izvorski et al. (1997); King (1995, 1997b); from the PrWd bracketing in (44). The relevance of (44) for li questions Various models have been proposed to explain this seeming hybric

questions are given in (45) and (46) (brackets indicate prosodic words): questions with elitics in (3) and (4) above; two more sets of negative We have already seen examples of differing word orders in negative

(45)a. [NE] li [sum not Q am<sub>1.SG</sub> youdatise tacc DAla]? 80

(Macedonian, non-ESD)

given<sub>F.SG</sub>

Ġ not amisa youdatsa itacc giveness Q ne sum 11 li) (Macedonian, ESD)

uses this prosodic fact as evidence that ne hosts up to one following clitic syntactically as prosodic unit, but ignores this fact in her analysis of ne and II (p. 69). Tomić (1996b, p. 848) well, a claim we do not make here. 22 Dimitrova-Vulchanova (1995, p. 62) also notes that ne and a following clitic form a

565

ç *[;*; ne sum Q not amilisa youdatisa itacc given isa ť. 90 DAlaj (Macedonian, clitic ne)

٩ [ne SÂM] li ti not am<sub>LSG</sub> Q youdatsG itace giveness Haven't I given it to you? [DAla]? (Bulgarian)

(46)a. that [NE] *li* [ti  $deka \dots ?$ not Q you<sub>DAT</sub> REFL seem<sub>3.SG</sub> SE čini], (Macedonian, non-ESD)

Ċ [ne ti not youday refl seems so Q that SE čini] **li**, deka ...? (Macedonian, ESD)

9 ne ti not youdan Refl seem3.50 Q that se Člni] *li*, deka ...? (Macedonian, clitic ne)

[ne 77] not you<sub>DAT</sub> Q REFL seem<sub>3.SG</sub> that Doesn't it seem to you that ...? II se [STRUva], če ... (Bulgarian)

sisting of [ne + stressed clitic]. No such prosodic constituent occurs in Macedonian.23 first clitic is stressed by the preceding ne, and li follows the PrWd con-In the Bulgarian examples (45d) and (46d), as well as (4b) above, the

Doesn't it seem to you [as if that bird was trying to tell us ... ]? not youdat Q reel seems3.5G

Ne ri

li se čini

[deka pticana kako da ni potskažuva [ ... ]]?

prefer non-ESD variants; one of our informants regularly rejects non-ESD stress patterns the verb (cf. (47b-c) accepted by three out of four). Some speakers prefer ESD and others order, preferring li after ne (cf. (47a), accepted by four out of the five speakers we asked) or Englund's example is spoken by a character in a story, and may not represent standard However, all our Macedonian informants rejected or questioned the example with this

> is ne + verb + li, which appears like Macedonian ESD, but is instead the result of ne's stress being unrealized in the absence of a following clitic: If no clitic is present, then the Bulgarian negative-question word order

|NE| li POstojat VONzemni civilizations civiliZAcii? not Q exist<sub>3,PL</sub> extraterrestrial

(Macedonian, non-ESD)

Do there NOT exist extraterrestrial civilizations?

Ċ civilizations civiliZAcii? not exist<sub>3.PL</sub> [ne POstojat] li VONzemni Q extraterrestrial (Macedonian, ESD)

Ö civilizations civiliZAcii? not exists pt [ne POstojat] li VONzemni Q extraterrestrial (Macedonian, clitic ne)

α. not  $exist_{3,PL}$ [ne sâštestVUvat] li izvânZEMni civiliZAcii? Do there not exist extraterrestrial civilizations? Q extraterrestrial civilizations (Bulgarian)

of the verb word, so *li* encliticizes to it. second member of the ESD pair is at least trisyllabic. In Bulgarian only following ne is the first stressed element (in fact, the only stressed element) one stress pattern and one position for li is possible. The word immediately that the ESD (47b) and clitic ne (47c) stress patterns are neutralized if the In all three Macedonian sentences, li follows the first PrWd domain. Note

a regular stress pattern as a diagnostic, it is harder to establish the extent of of (46d) might be either of the following: stress rather than a PrWd domain (Hypothesis A of (37)); given the lack of prosodic words in Bulgarian than in Macedonian. The prosodic structure maximal PrWd domain, or whether Bulgarian li follows a simple PrWd It is not entirely clear whether ne + clitic in Bulgarian constitutes a

(48)a.[[ne *TI*] **li**] [se STRUva]

(Bulgarian)

9 [[[ne TI] li] se] [STRUva]

Boškovski's "Žeravi", with the order ne + clitic + li in a negated main-clause question: <sup>23</sup> Englund (1977, p. 112) lists the following Macedonian example from Jovan

choice between (48a) and (48b) open. clitics (ti and se in this example) are normally hosted as a unitary 'clusunstressed clitic. Structure (48b) is suggested by the fact that the verbal main, but in (48b) there is a larger PrWd domain containing an additional unstressed conjunctions or particles (see Section 5.3 below). We leave the cases they are not preceded by any stressed constituent, but merely by the clausal clitics are always phonologically enclitic; however, in some supports (48a). It has been claimed, e.g., by Tomić (1996a, p. 512), that ter'. On the other hand, the possibility of pausing before but not after se In (48a) the PrWd containing li and its host is also a maximal PrWd do-In both of these li immediately follows the first right-hand PrWd bracket

containing ne, the verb, and any intervening clitics; while negative stress wardly follow the first lexically accented word of the verbal complex shift causes Bulgarian li to follow the first constituent – clitic or non-clitic ian. ESD or proclitic ne causes Macedonian li to appear after the PrWd marked divergence in this construction between Macedonian and Bulgarindependent phenomena, interacting with prosodic inversion to produce a after ne. Only in the Macedonian non-ESD variant does li straightfor. To summarize, word order in negative questions is complicated by two

# 5.3. Inversion of Verbal Clitics in Bulgarian

precedes these clitics, prosodic inversion takes place (see Halpern 1995). pronominals and auxiliaries are restricted from being initial.<sup>24</sup> If nothing as we have seen. Unlike those of Macedonian, however, Bulgarian clitic as in the li questions in (1) and (2) above Macedonian and Bulgarian are syntactically proclitic to the tensed verb, the inversion of certain initial clitics in Bulgarian. Verbal clitics in both We now turn to a third prosodic phenomenon affecting the position of li, This process is evident in the non-li examples in (49) through (52), as well

(49)a. 
$$uXOto$$
 me boL1

ear + the  $me_{ACC}$  hurts<sub>3.8G</sub>

#### Ċ \*me boLI uXOto

0 IToq My car hurts  $hurts_{3.SG}$   $me_{ACC}$  ear + theme uXOto

(50)те  $me_{ACC}$  hurts<sub>3.SG</sub> ear + the BOli Uvoto

(Macedonian)

My ear hurts

(51)a. ΛZ ti INOM YOUDATISG HACC SAVELISG  $\vec{\Sigma}$ DAdox

(Bulgarian)

\*ti ja DAdox

Ċ DAdox ti I gave it to you. gavelsg youdatsg tacc  $\alpha$ 

(52)I gave it to you. YOUDATISG HACC BAVELSG ja DAdov

position. mechanism, since all clitics in this language can stand in sentence-initial corresponding (c) examples. Macedonian has no need of this last-resort (The analogues of these sentences are also possible in Macedonian.) In cal construction is avoided by inversion of the clitics with the verb in the (49b) and (51b) no lexical material precedes the clitics; this ungrammati-In (49a) and (51a) a focus or topic phrase precedes the preverbal clitics.

a sentence-internal pause as well. In sentence (53), from Hauge (1976 initiality: p. 5), each clause shows a different way for the clitics to achieve non Inversion in Bulgarian occurs not only sentence-initially, but following

(Bulgarian)

(53)iVAN VČEra them<sub>ACC</sub> and REFL<sub>DAT</sub> went<sub>3.SG</sub> Ivan yesterday REFLACC called 3.5G returned 3.5G him DAT oTIde. oBAdi, (Bulgarian)

Ivan called yesterday, returned them to him, and went home

merely that certain elements be non-initial, not by Wackernagel's Law, which requires particular constituents to be in second position; see Cavar (1996) and Cavar and Wilden (1994) for discussion. <sup>24</sup> Bulgarian clitics are characterized by the Tobler-Mussafia Effect, which requires

In the first clause the clitic se remains preverbal because other accented words appear before the clitic + verb PrWd. In the third clause the phonologically proclitic conjunction i shields the clitic si from initial position in its intonation phrase, [i si oTIde]; si is therefore able to remain preverbal. But in the middle clause nothing shields the clitics mu and gi from immediately following the clause-initial pause (represented by a comma) in their preverbal configuration \*[mu gi VÂRna]; inversion is therefore required. The Bulgarian verbal clitics can follow essentially anything except a pause. They may follow adjuncts to CP, conjunctions, or other material not dominated by the CP node; the domain within which they must not be initial is not the clause. In addition, CP-internal modal particles, future šie and subjunctive da, are sufficient to shield the auxiliary and pronominal clitics from initial position and prevent inversion, even though they are themselves unstressed clitics:

(54)a. *Sie ti gi* KUpim. (Bulgarian) will you<sub>DAT.SG</sub> them<sub>ACC</sub> buy<sub>LPL</sub>

We will buy them for you.

b. da si gi KUpim.

SUBJ REFLDAT themACC buyLPL

Let's buy them for ourselves.

Thus, the crucial non-initiality domain is some prosodic category above PrWd (probably Intonation Phrase); the non-initiality requirement is not syntactically based, but prosodic, and does not necessarily involve a preceding stressed word.

Clitic inversion is relevant to the syntax of *li* questions because the auxiliary and pronominal clitics raise to C along with the verb, as described in Section 3 above. In Macedonian (55), *li* straightforwardly encliticizes to the verbal complex (the PrWd consisting of the verb and its incorporated functional categories, some realized as preceding clitics), as in (55):

(55) ste go GLEdale **li** Ovoj FILM? (Macedonian)  $are_{2.PL}$   $it_{ACC}$  seen<sub>PL</sub> Q this<sub>M.SG</sub> film Have you seen this film?

In (55) the verbal complex is *ste go gledale*. Right adjunction of the verb to *li* results in the syntactic Spell-Out string [*li* [*ste go gledale*]] in C; prosodic inversion then produces the surface order.

In Bulgarian, exactly the same process occurs if a topic phrase or other material precedes C. In (56), where the non-clitic pronoun vie is a topic, li inverts with ste go gledali just as in Maccdonian:

(56) VIe ste go GLEdali II TOzi
younom.pl. are2.pl. itacc seenpl. Q thism.sa
FILM?

(Bulgarian)

film

Have you seen this film?

However, if the topic is set off by a pause or prosodic break, represented by H in (57), the verb must invert to provide a prosodic host for the clitics Prosodic inversion then places H after this fronted verb, which is the first stressed element of the verb complex:

(57) VIe // GLEdali ti ste go TOzi
youNOM.PL seenpt. Q arez.pt itACC thisM.SG
FILM? (Bulgarian)

(As for you), have you seen this film?

When the complex verb is sentence-initial, clitic inversion likewise takes place. In (58) – the Bulgarian counterpart of (55) – the verbal complex [ste go gledali] is adjoined to C, resulting in the string [li [ste go gledali]]. Simple prosodic inversion of li here would produce a sentence with initial clitics, which is not possible in Bulgarian. Clitic inversion is required within the complex verb, giving the order [li [gledali ste go]. As in all V + li constructions, prosodic inversion places li at the end of the first PrWd to its right. In the examples in (55) and (58) this first PrWd is the verb:

(58) GLEdafi *it ste* go? (Bułgarian)

seen<sub>PL</sub> Q are<sub>2,PL</sub> it<sub>ACC</sub>

Have you scen it?

To summarize this subsection, we have shown that Bulgarian, unlike Macedonian, has a prosodic non-initiality requirement on its clitic pronominals and auxiliaries which affects word order and placement of *li* in questions without an initial topic or other pre-C element.

# 5.4. Non-Clitic Auxiliaries and Participle Fronting

Another factor involved in the word order of li questions is the existence in both Macedonian and Bulgarian of non-clitic as well as clitic auxiliaries. These two types of auxiliaries interact with the other prosodic phenomena discussed to this point and with a discourse-governed process of participle fronting to produce a mosaic of word orders in various tenses and moods, all of which are accounted for by our analysis of V + li questions (head movement of complex V to C, followed by prosodic inversion).

In constructions with a stressed instead of a clitic auxiliary, *li* follows the auxiliary (except in cases of participle fronting; see below). Non-clitic auxiliaries include *ima*- 'have' in Macedonian (59a), the past tense forms of 'be' in Bulgarian (59b), and the negative-future *nemalnjama* 'won't' in both languages (60a-b):

59)a. Ima **li** DOJdeno kaj NAS?

has<sub>3.8G</sub> Q come to us

Has (s)he been to our place?

b. BEše **ii** doŠLA?

was<sub>3.8G</sub> Q come<sub>F.8G</sub>

Had she arrived?

(60)a. NEma li da VRne?

won t<sub>3.SG</sub> Q to rain<sub>3.SG</sub>

(Macedonian)

(Bulgarian)

b. NJAma *li da* vaLI?

won't<sub>3.SG</sub> *Q* to rain<sub>3.SG</sub>

Isn't it going to rain?

Another auxiliary which is lexically stressed in Bulgarian but not in Macedonian is the conditional stem /bi-/. Whereas bi appears clause-initially in both (61a) and (62b), this element is distinct in the two languages. In Macedonian, bi is neither inflected nor accented, and behaves like any verbal clitic in that language.<sup>25</sup> The irrealis element in Bulgarian, however,

is stressed and inflected for person- and number-agreement. The form *bi* in (62b) is the 3.8G form, which happens to be segmentally identical to the invariant Macedonian one; (62c) shows the 2.PL form:

(61)a. bi mi DAL li PAri? would me<sub>DAT</sub> given<sub>MSG</sub> Q money

(Macedonian)

b. \*Bl **li** mi DAL PAri?

Would he give me money?

(62)a. \*bi *mi* DAL *ti* paR1?

(Bulgarian)

b. BI *li mi* DAL paRI?

would<sub>3.SG</sub> Q me<sub>DAT</sub> given<sub>M.SG</sub> money

Would he give me money?

(Macedonian)

c. BIXte *ii* mi DAli paRI?

would<sub>2.PL</sub> Q me<sub>DAT</sub> given<sub>PL</sub> money

Would you give me money?

(Bulgarian)

Both Macedonian and Bulgarian also have lexically accented 'be' forms, formed from the stems /bid-/ and /bâd-/, respectively. These accented stems are traditionally considered perfective, as opposed to the imperfective clitic 'be' forms; however, this aspect distinction is often neutralized and the two forms may be used with virtually identical meaning, at least in Bulgarian.<sup>26</sup>

(63)a. ke BIdeš li GOtov?

will be<sub>2.SG</sub> Q ready<sub>M.SG</sub>

Will you be ready?

(Macedonian)

will be<sub>2.SG</sub> ready<sub>M.SG</sub> Q
Will you really be ready?

Ö

ke si

GOtov

ii?

šte BÂdeš li goTOV?
will be<sub>2.SG</sub> Q ready<sub>M.SG</sub>

(64)a.

(Bulgarian)

<sup>&</sup>lt;sup>25</sup> Minova-Gurkova (1994, p. 152) notes, however, that some Macedonian survey respondents accepted the sentence *Bi li mnt rekol?* [would Q himp<sub>AT</sub> told<sub>M.SG</sub>] 'Would he/II/you tell him?', with the same structure as (61b). It is unclear how many speakers shared this judgment or what their dialect background was. Presumably for these speakers *bi* is a non-clitic, as in Bulgarian. Tomić (1996b, pp. 831–32) considers Bulgarian *bi*- a proclitic, failing to observe that it invariably bears stress.

<sup>26</sup> Kramer (1993) shows that in Macedonian the two forms split semantically along an actualized/non-actualized axis, the clitics expressing actualized events.

Ģ šte si will be<sub>2.SG</sub> ready<sub>M.SG</sub> Q Will you be ready? goTOV Ii?

(65)ຄ. *šte* BÂdcš *li* naPIsaI will be 2SG Q written MSG letter + the pisMOto?

(Bulgarian)

šte si will be 2.8G written M.SG Q letter + the Will you have written the letter? naPIsal li pisMOto?

Ò

of the accented or unaccented 'be' form affects the position of li in both as both copula and auxiliary in Bulgarian ((64a) and (65a)).27 The choice These accented stems are used only as copulas in Macedonian (63a) but the accented (non-clitic) auxiliary, but when the clitic auxiliary is chosen verb complex. The effect is the same in both languages: li directly follows languages, since it changes the position of the first stressed element of the li must come later, after the main verb or other accented predicate word.

both examples):<sup>28</sup> bick and Izvorski (1997, p. 221) report Bulgarian (66b) (stress added on tions. Englund (1977, p. 111) gives Macedonian example (66a) and Emtreated as non-clitics, taking word stress and appearing in non-clitic post-Under some circumstances the normally clitic 'be' forms can also be

. SI  $are_{2.SG} Q$  you<sub>NOM.SG</sub> member of youth + the Are you a member of the youth? li TI ČLEN na mlaDlnata (Macedonian)

9 SI are2.8G Q writtenM.8G thirty arez sc  $\boldsymbol{li}$  naPlsal TRIdeset KNIgi, ili ne books or no

(Bulgarian)

Have you written thirty books, or not?

differences in Macedonian, including the fact that auxiliary but not copula clitics lack thirdan auxiliary in Bulgarian. auxiliary sa before them. Scatton (1984, pp. 328-329) gives further examples of Ibâd-I as distinction in Bulgarian, too, placing 3.PL copula sa after the pronominal clitics but 3.PL person forms. Hauge (1976, p. 16) suggests some speakers may make an auxiliary/copula <sup>27</sup> Sec Korubin (1974, pp. 246–48) and Baerman and Billings (1998) on auxiliary/copula

ellipsis or displacement of the clitic's host, leaving it stranded tences in Macedonian and Bulgarian, respectively. Hauge suggests an account in terms of 👂 clitics is that not all verbal clitics in Bulgarian are subject to the non-<sup>28</sup> Minova-Gurkova (1994, p. 152) and Hauge (1976, pp. 2–3) also discuss similar sen-

stressing the clitic 'be' form. V + li questions we adopt in Section 3 above, showing what happens when best means of providing a host for li seems to be a last-resort strategy of regardless of its clitic status. For those speakers who accept (66a-b), the the tensed verb is a clitic. The finite verb moves to C, as in tree (14), These examples are interesting in light of the head-movement account of

PrWd. Those who rejected it suggested either of (67a-b) instead: invariably stressed it as shown, as predicted if li must follow a stressed Not all of our Macedonian informants accepted (66a). Those who did

(67)a. DAli whether are 2.8G member of youth + the 13 ČLEN na mlaDlnata (Macedonian)

Are you a member of the youth?

Ģ Are YOU (really) a member of the youth? younom.sG Q are 2.8G member of youth + the li si ČLEN na mlaDlnata (Macedonian)

This is thus an instance of the XP + li construction in (10) above: structure of (67b) is (68), in which ti 'you' is focused (moved to SpecCP) The complementizer duli, in (67a), is discussed in Section 6 below. The

(68)  $[\operatorname{CP} [\operatorname{SpecCP} Ti]][\operatorname{C} \textbf{\textit{ii}}][\operatorname{IP} [\operatorname{I} \operatorname{\textit{si}}][\operatorname{DP} \check{\operatorname{CLEN}} \operatorname{\textit{na}} \operatorname{mlaDlmata}]]]$ 

involve the interaction of a 'be' clitic and ESD (cf. Section 4.2 above): One Macedonian example given by Englund (1977, p. 115) appears to

(69)ama NE e But isn't this an obvious fear that I would die? but not is 3.5G Q this N.SG open M.SG fear that will die 1.5G *li* TOa Otvoren STRAV deka ke Umram?

of the first PrWd, prosodic inversion seems to predict the order \*ama NE II e. We suggest instead that ESD (discussed above, in Section 5.1), treating and prosodic-inversion account we adopt here. The problem is that if ne is of this example is, at first glance, problematic for the syntactic-movement m and e as a single PrWd, causes li to invert to the attested place after e. inherently accented (bears stress), and if li prosodically inverts to the right All our informants accepted (69) with the stresses given. The word order

initiality restriction discussed in Section 5.3. In both languages, the future Another lexical factor affecting the placement of li relative to other

clause initial and preventing clitic inversion: being able to begin a sentence, shielding the other verbal clitics from being particle kelste is a clitic, but ste differs from other clitics in Bulgarian in

(70)a. ke go will it ACC finish 3. Pt. Q ZAvršat *li?* 

(Macedonian)

šte go will it ACC finish 3.PL Q SVÂRšat li?

(Bulgarian)

\*SVÂRšat li šte go Will they finish it?

(Bulgarian)

to occur initially. particularly their accentual status (clitic or non-clitic) and their (in)ability by lexically specified features of individual auxiliaries in each language, ming up this section so far, constituent order in li questions is affected they are not part of the verbal complex; see examples (53) and (54). Sum unstressed words such as conjunctions serve the same function, even if As we noted in Section 5.3, the subjunctive particle da and other lexically

to prevent it from being initial (cf. 5.3): by other lexical material such as a topic phrase, it inverts with the participle participle fronting.<sup>29</sup> In Bulgarian, when a clitic auxiliary is not preceded tween Macedonian and Bulgarian in certain li questions, is differences in The final factor we discuss which results in word order differences be-

(71)a. XOdili *sa* gonept are3.pt there TAM.

(Bulgarian)

They've gone there.

\*sa XOdili TAM

when a clitic auxiliary is preceded by an initial element, such as šie in (73). Only focused participles are fronted with a non-clitic auxiliary (72) or this 'optional' participle movement: See King (1997a), Legendre (1998), and Rivero (1994) for discussion of

(72)a. XOdili BJAxa TAM.

gonept, were3.pt, there They had GONE there

(Bulgarian)

Embick and Izvorski (1997) and King (1997h). <sup>29</sup> For further discussion of participle fronting in these and other Slavic languages, see

> (73)a.XOdili šte sa. They had gone there.

9

BJAxa XOdili TAM

were3.p1. gone p1. there

gone PL will be 3.PL They'll have GONE

(Bulgarian)

Ď, will be 3 rt gone rt šte sa XOdili

They'll have gone

whether this is the participle or an auxiliary: dictably with li placement; li always follows the first stressed element, Participle fronting, of both the obligatory and optional types, interacts pre-

(74)a. XOdili li sa?

(Bulgarian)

gonept. Q ares.pt Have they gone?

9 gonept Q were3.PI XOdili li BJAxa? Had they GONE?

9 were3.PL Q gonePL BJAxa li XOdili? Had they gone?

ρ. Will they have gone? will are 3.PL gone PL Q šte sa XOdili li?

gonem.sg Q will are3.sg XOdili Will they have GONE? li šte sa?

ņ

ing word-order possibilities in li questions (as in declarative sentences) directly relevant to the syntax or prosody of li itself, the differing conditions on participle fronting in the two languages naturally lead to differ-Participle fronting is much less prevalent in Macedonian. Although not

out that fronting of a 'non-thematic' (verbal) participle is impossible in stress notation added: ization, and contrastive focus, can be fronted. 30 Example (75) is their (34) governed by discourse-pragmatic factors such as backgrounding, topical-Macedonian. Only 'thematic' (adjectival) participles, whose position is with participles. In particular, Embick and Izvorski (1997, p. 232) point

(75)a. si are2.8G been warned<sub>M.8G</sub> about that<sub>N.8G</sub> You've been warned about that BIL preDUpreden za TO<sub>a.</sub> (Macedonian)

Ģ \*BIL si preDUpreden za TOa

9 preDUpreden si BIL za TOa You've been WARNED about that.

in Macedonian, placing li after the first stressed PrWd: this prosodically-motivated fronting does not take place.<sup>31</sup> As in Bulgaras we have seen, to shield the clitic auxiliary from initial position. But in ian, prosodic inversion of li interacts predictably with participle fronting Macedonian, where the clitic auxiliary has no non-initiality requirement, Non-thematic participle fronting can and often must occur in Bulgarian,

(76)a. Were you warned about that? are2.5G beenm.5G Q warnedm.5G about that BIL li preDUpreden za TOa? (Macedonian)

Ö preDUpreden li si warned<sub>M.SG</sub> Q are<sub>2.SG</sub> been<sub>M.SG</sub> about that Were you WARNED (really) about that? BIL

affected by several language-specific prosodic phenomena, which cause them to appear rather divergent in their placement of li. These prosodic To summarize Section 5, then, Macedonian and Bulgarian li questions are

quite uniform. differences mask the syntactic structure of the two languages, which is

may have to do with stronger association of li with focus in Macedonian syntactically optional, alternating with zero as well as with the non-clitic they differ pragmatically as well. Unlike in Bulgarian, Macedonian li is construction; see footnote 3. Slavic languages with li questions also differ in frequency and usage of the than in Bulgarian, and may also be subject to regional variation. Other yes/no-interrogative complementizer dali. The conditions on its occurrence Macedonian and Bulgarian yes/no questions not only differ prosodically

50), and Restan (1972, pp. 587-621). Another corpus study, Nikov (1976). 30 percent of yes/no questions use li, and 44 percent have no question question words, such as nali 'isn't it so'. In her Macedonian corpus, only yes/no questions contain li, the remainder mostly being formed with other (1977) reports that in her corpus of literary works, 60 percent of Bulgarian in a Bulgarian corpus use li, confirming that li in Bulgarian is virtually word at all; cf. also Friedman (1993, pp. 286-87), Kramer (1986, pp. 130finds that 92.6% of 'neutral' (non-echo, non-rhetorical) yes/no questions Usage differences have been quantified by several studies. Englund

questions that would require li in Bulgarian, 52 have li, 29 have dali, and of questions in Kramer (1985), a Macedonian phrase book. Out of 101 the tourist is advised to ask the three questions in (77): synonymous in many cases; when visiting the auto mechanic, for example 20 have no overt question word. The three types of questions are apparently The very different usage of li in Macedonian is borne out by a survey

Imate maslo za avtomobil? have<sub>2.PL</sub> oil for automobile

(Macedonian)

Do you have oil for cars?

have<sub>2.PL</sub> Q muffler Do you have a muffler?

Ö

Imate

li auspux?

7

Dali imate svekički?

dali

ç have<sub>2.PL</sub> spark-plugs

Do you have spark plugs?

Macedonian, particularly adjectival ones formed with n or t as opposed to verbal ones with 30 Korubin (1974) also provides useful insights on the different types of participles in

<sup>(1995,</sup> pp. 80-81). fronting in Macedonian was first observed, to our knowledge, by Dimitrova-Vulchanova 31 The connection between the possibility of clause-initial clitics and limited participle

alent of (77c) would mean I wonder if you might have spark plugs, the speaker would not necessarily expect an answer. dali in a Bulgarian main clause signals a rhetorical question. The equiv-Only (77b) corresponds to a normal question in Bulgarian; a question formed with intonation alone, like (77a), is marginal in Bulgarian, while

though only the (b) version, with li, corresponds to a normal question in Similarly, the following are virtually synonymous in Maccdonian,

(78)a. Ima have3.5G question prašanje?

(Macedonian

Ģ Ima li prašanje?

Dali ima prašanje? Is there a question?

(79) Ima Is there a question? have3.5G Q question li vâpros?

(Bulgarian)

in a stage comedy. However, factors other than geography are probably split is supported by our own experience: several speakers from western ative li, though he does mention a special conjunction l'i. This east-wes which documents a dialect not quite as far west, also reports no interroga far-western dialect, has no mention at all of li. Groen (1977, p. 175). (Minova-Gurkova 1987, citing Koneski). Hendricks (1976), a grammar of alects, while li tends to be used in the eastern dialect areas, near Bulgaria as yes/no question marker) is said to be more common in western di than one with li; and one said using li made him feel like he was acting Macedonia commented that an intonation question would be more usua flect regional variation. In particular, omission of li (i.e., intonation alone To some extent, the apparent optionality of li in Macedonian may re

equally likely in neutral informative questions. Minova-Gurkova (1987) answer), li is most likely in rejective questions, and dali, li, and zero are appear in confirmative questions (those which expect or desire a positive itions. Englund (1979) suggests that, statistically, zero is most likely to zero question marker both in the literature and in our consultants' intu-There are hints of a subtle meaning difference between li, dali, and

> gives a rhetorical flavor. site of Bulgarian, in which li questions are neutral and dali in a main clause question; some speakers seem to interpret questions with li as rhetorical prefering zero or dali for neutral questions. Interestingly, this is the oppofrom northwestern Macedonia told us that li adds a "perhaps" feeling to a ary Macedonian, negative li questions are usually rhetorical. One speaker reports that while positive li questions have a broad range of uses in liter-

a focusing sense, unlike in Bulgarian, where they are neutral when no focus informant felt a subtle difference in meaning between li, dali, and zero: phrase appears before li. Consider the following set of examples, where our Another possibility is that li questions in Macedonian may always have

lma Pepsi?

(neutral)

have3.sG

Is there Pepsi?

Ģ Dali ima Pepsi? Is there Pepsi?

(neutral)

(focus on Pepsi)

0 Pepsi li ima? Is there PEPSI:

As for Pepsi, IS there any? (focus on predicate; Pepsi is topic)

Pepsi ima li?

e. lma li Pepsi IS there Pepsi?

(focus on predicate)

?Pepsi ima?

?Dali Pepsi ima?

the preverbal focus position in the absence of the focus-marking li. tences (80f-g) are slightly odd, presumably because Pepsi has moved to the predicate, giving a sense of surprise ('IS there (really) Pepsi?'). Senin SpecCP (80c) or by the verb in C (80d-e); in the latter case it focuses biguous. A li question must have a focus feature checked by an element neutral, but the explicit question marker makes its interpretation unam-The zero question (80a) is neutral. A dali question (80b) is also relatively

and most common; li is also possible, but a zero variant is ungrammatical: In both Macedonian and Bulgarian embedded questions, dali is neutral

(81)a. Te you<sub>ACC</sub> ask<sub>3.PL</sub> whether arrived<sub>M.SC</sub> prašuvaat dali pristignal

(Macedonian)

train + the

They are asking you whether the train has arrived

- Ö ?Te prašuvaat pristignal li vozot.
- c \*Te prašuvaat pristignal vozot
- (82)a. Pitat te ask3.pl youACC whether is3.sG arrivedM.sG train + the dafi pristignal

(Bulgarian)

They are asking you whether the train has arrived

- Ċ Pitat te pristignal li e vlakât
- \*Pitat te pristignal e vlakât

instances of the same construction occur and are felt to be normal. The convey direct quotation ("They ask you: "Has the train arrived?" ), literary Janevski (the boldfaced portion is given in more detail in (83b)): Although simple examples like (81b) are often judged marginal or felt to following is from a story by the well-known Macedonian writer Slavko

Očigledno ne procenuvajki ja opasnosta ili ne veruvajki i, popot koja ke se izvleče od stapicata. se dvoumeše bessilen, ne li ke se seti na nekakva itroština so (Macedonian)

ing it, the priest wondered, helpless, whether or not he might from the trap. Evidently not fully appreciating the danger or just not believthink up some kind of ruse by which he could free himself

Ģ NE li ke not Q will REFLACE think-upass ...

> questions with li only reluctantly, but had clear intuitions about where li of li questions, but does affect speakers' judgments. The artificiality of would be placed if she did use it. it readily later on. Another strongly preferred zero questions, accepting be a complicating factor. One speaker rejected li in one session but used grammatical elicitation or inability to imagine an appropriate context may The 'optionality' of Macedonian li does not bear directly on the syntax

differences in the usage and frequency of li questions in Bulgarian and to any difference in the syntax (or, for that matter, the prosody) of li itself. the two languages. Macedonian do exist and constitute another important distinction between To summarize this section, although they do not seem to be connected

#### 7. CONCLUSION

significantly as a result of several independent prosodic and pragmatic difof their common syntax, however, li questions in the two languages differ verb raising and prosodic inversion: ferences between the two languages which interact with the processes of inversion places li after the first Prosodic Word of the complex V. In spite heads through which it has raised to C. In the latter construction, prosodic li incorporates a raised verb along with clitics representing the functional In the XP + li type, li follows a focus phrase in SpecCP. In the V + li type, Macedonian and Bulgarian yes/no questions are syntactically of two types

- Macedonian allows certain two-word combinations to have a single stress, causing li at times to follow two lexically accented words.
- Bulgarian ne, the Neg head, has a special property of stressing the consisting of ne plus the following, stressed element. following element, causing li to invert prosodically past the PrWd
- Bulgarian requires auxiliary and pronominal clitics to be non-initial and employs clitic-verb inversion to prevent illicit initial clitics.
- Macedonian and Bulgarian differ to some extent in the prosodic propin the effects of non-clitic auxiliaries on word order. erties of individual auxiliaries, such as the conditional stem /bi-/, and
- Macedonian and Bulgarian differ in the types of participle fronting
- In Macedonian, li is a marked option among several ways of forming a yes/no question, while in Bulgarian it is the unmarked norm

mars of two closely related languages, and the striking differences between Our analysis captures both the essential similarity between the gram-

them. The syntax of the two languages is identical, as is the prosody of *li* itself; the differences are due to the interaction of *li* and the syntax of *li* questions with a series of non-syntactic factors: differing prosodic constraints on various types of clitics and phrases, idiosyncratic differences in the prosodic properties of particular lexical items, and differences in usage. This satisfying result underlines once again the utility of a modular approach to the grammars of related languages.

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