University of Massachusetts Occasional Papers 21

Proceedings of Workshop on Focus

Edited by

Elena Benedicto, Maribel Romero, and Satoshi Tomiola

GLSA

University of Massachusetts, Amherst

FOCUS IN BULGARIAN AND RUSSIAN YES-NO QUESTIONS*

Catherine Rudin, Tracy Holloway King, and Roumyana Izvorski

Wayne State College, Stanford University, and University of Pennsylvania

1. Introduction

This paper examines the distribution of focused elements in Bulgarian (BL) and Russian (RS) yes-no questions formed with the question marker li. We propose that li is an interrogative ([+Q]) complementizer that can also check a [+F(ocus)] feature. Overt XP-movement for checking of the [+F] feature in a Spec-head configuration with li obligatorily results in a focus-presupposition construction (in the sense of Jackendoff 1972). In the absence of [+F], the verb undergoes head-movement to li, and the result is a neutral question not partitioned into focus and presupposition. Thus, yes-no questions can either be neutral, in that they question the existence of an event/state of affairs, or contain a focused element, in which case the remainder of the clause is presupposed; the difference between these two types of questions is coded by the type of constituent that precedes li.

We thank Catherine Chyany, Barbara Partee, and Chris Piñón for helpful comments and suggestions. We also want to thank Arto Antilla, Erika Mitchell, Ida Toivonen, and Anne Vainikka for help with the Finnish data, as well as Ali Eminov and Beryl Hoffman for help with the Turkish data.

¹ See also Kiefer 1980, Hajičová 1983, among others for discussion of presupposition and focus in questions. The presupposition associated with *li*-questions in which XP-movement has occured is an open proposition whose semantic variable corresponds (in general) to the moved XP; the focus instantiates the variable in the open proposition.

In both Bulgarian and Russian, *li* occurs in two syntactic environments (Restan 1972, Rudin 1993, King 1994, Izvorski 1994): either a maximal projection or the verb can occur before *li*, as in (1) and (2). Indirect questions conform to the same pattern; embedding (1) and (2) preserves their word order.

- (I) a. [Na Marija] li dadoxte nagradata? to Maria Q gave the-prize 'Was it to Maria that you gave the prize?' (BL)
 - b. [Dadoxte] li nagradata na Marija?
 gave Q the-prize to Maria
 Did you give the prize to Maria?' (BL)
- (2) a. [Knigu] *li* Anna pročitala? book Q Anna read 'Was it a book that Anna read?' (RS)
 - b. [Pročitala] li Anna knigu? read Q Anna book 'Did Anna read a book?' (RS)

We propose that these two word-order possibilities not only reflect different syntactic structures, but are also associated with different focus readings. The XP-li construction involves obligatory focusing of the initial maximal projection, with concurrent presupposition of the non-fronted portion of the clause. In contrast, the V-li construction has a neutral reading which questions the existence of the clausal event/state of affairs. For example, in (2a) the direct object knigu 'book' appears in initial position, followed by li. It is the focus of the question. The speaker is asking about the identity of what was read, and it is presupposed that Anna read something. The reading is similar to that which arises when 'book' is clefted in the English translation: 'Was it a book that Anna read'. In contrast, in (2b) the verb appears in initial position followed by li, and the entire clause is questioned. That is, the question is asking whether a reading of a book by Anna took place and carries no presupposition about the existence of this event. This reading is similar to the neutral reading of the corresponding English question Did Anna read a book?'

In the next section we present evidence that the maximal projection preceding li is necessarily interpreted as the focus of the utterance. In section 3 we discuss the meanings associated with V-li structures. An analysis of the syntax of li-questions is offered in section 4. Our treatment of li as a focus particle invites comparison to the focus particles of other languages (see for instance König's 1991 work on focus particles in Japanese, Finnish, and Turkish). In the final section we briefly discuss the similarities between the syntax of li and the question/focus particles in Finnish and Turkish. The cross-linguistic pattern that emerges suggests that the correlation between the syntactic and the focus-presupposition partitioning of yes-no questions is not a Slavic idiosyncrasy.

2. XP-li Constructions

The maximal projection preceding li can be essentially of any category and is obligatorily focused. The obligatory focus on the pre-li maximal projection and the corresponding presupposition of the remainder of the clause can be seen by the appropriateness of the responses to the XP-li-question, the distribution of inherently unfocusable phrases and of contrastive foci, and the behavior of focus sensitive adverbs.

2.1. 'Natural' Answers

The relation between yes-no questions and their 'natural' answers is one of the standard tests for determining the focus-presupposition structure of questions (see Chomsky 1971, Jackendoff 1972, among many others). Thus the fact that (3a) is an appropriate answer to the clefted question and (3b) is not reveals that John is the focus and Someone writes poetry the presupposition of the question in (3).

- (3) Is it John who writes poetry?
 - a. No, it is Bill who writes poetry.
 - b. #No, it is John who writes short stories.

The 'naturalness' of the responses to XP-li questions determines that the constituent preceding li is focused. A negative answer to a question like (4) will only deny that the prize was given to Maria, as opposed to, say, Susanna, and not that the event of giving the prize took place

- (4) [Na Marija] li dadoxte nagradata?
 to Maria Q gave the-prize
 "Was it to Maria that you gave the prize?" (BL)
 - a. Ne,dadoxme ja na Suzana.
 no gave it to Susanna
 'No, we gave it to Susanna.'
 - b. #Ne, dadoxme i knigata.
 no gave her the book.'
 'No, we gave her the book.'
 - c. #Ne, vzexme i ja.
 no took her it
 'No, we took it away from her.'

The facts in (4) reveal that XP-li questions are necessarily divided into focus and presupposition parts: the constituent appearing before li is interpreted as the focus and the remainder of the clause becomes part of the presupposition.

² Throughout the paper we refer to these as the XP-li and the V-li construction, respectively. Bulgarian and Russian are alike unless explicitly stated otherwise.

2.2. Unfocusable Phrases

Existentially quantified NPs like someone, something, etc. are inherently unfocusable because they cannot instantiate the variable in the presupposition of questions. Although these phrases are possible in li-questions, they cannot appear followed by li, where they would have a focused interpretation forced on them. The behavior of existentially quantified NPs is illustrated in (5) and (6):

- (5) a. [Dojde] li njakoj na sreštata?
 came Q someone to the-meeting
 'Did someone/anyone come to the meeting?' (BL)
 - b. *[Njakoj] li dojde na sreštata? someone Q came to the-meeting (BL)
- (6) a Oni sprosili, [kupila] li ona čto-nibud'. they asked bought Q she something "They asked if she bought something." (RS)
 - b. *Oni sprosili, [čto-nibud'] li ona kupila.
 they asked something Q she bought (RS)

Both (5a) and (5b) have the phrase *njakoj* 'someone' as a subject. In (5a) the verb precedes *li* and the sentence is grammatical. However, if *njakoj* appears in the position before *li*, as in (5b), the sentence becomes ungrammatical because the existentially quantified NP is incompatible with a focus interpretation. The placement of a phrase like *njakoj* in focus position potentially denies the truth of the presupposition. For example, in (5b) it is presupposed that someone came to the meeting, but the focusing of *njakoj* potentially allows for a negative answer, which would contradict the presupposition:

(7) Presupposition: Someone came to the meeting. Question: Did someone come to the meeting?

In sum, the distribution of existentially quantified NPs in *li*-questions provides evidence that the XP-*li* questions are necessarily associated with a focus-presupposition partitioning with the pre-*li* maximal projection being the focus of the question.

2.3. Contrastive Foci

As we just saw, the XP-li construction sets up a bipartite structure: the pre-li maximal projection is focused, while the rest of the clause is presupposed. Since the remainder of the clause is presupposed, focused material, as indicated by stress, cannot

appear there, as shown in (8).3 (Stress, and hence contrastive focus, is indicated by capitals.)

- (8) a Oni sprosili, [Ivan] *II* ušel včera. they asked Ivan Q left yesterday 'They asked if Ivan-FOC had left yesterday.' (RS)
 - b. *Oni sprosili, [Ivan] li USEL včera thev asked Ivan Q left vesterday
 - c. *Oni sprosili, [Ivan] li ušel VCERA. they asked 7 Ivan Q left yesterday

In (8a) the subject *Ivan* appears before *li* and is the focus of the question. It is impossible to focus any other element of the sentence in this construction. So, (8b) in which the verb is stressed and thus must be interpreted as contrastively focused, is ungrammatical. The same holds for (8c) in which the adverb is focused. We can draw the conclusion that when a maximal projection precedes *li* no other constituent can be focused; such a conclusion supports our position that the pre-*li* maximal projection is the focus of the question and the rest of the clause is part of the presupposition.

2.4. Focus Sensitive Adverbs

Similarly, only the maximal projection appearing before *li* can be the associate of focus sensitive adverbs like *only* and *even*, as shown in (9) and (10). (See Jackendoff 1972, Rooth 1992, von Fintel 1994, among others, for discussion of the phenomenon of association with focus.)

- a. Samo [cvetja]_F li dadoxte na Marija?
 only flowers Q gave to Maria
 'Did you give only flowers to Maria?' (BL)
 - b. *[Cvetja] li dadoxte samo [na Marija]_F flowers Q gave only to Maria 'Was it flowers that you gave only to Maria?' (BL)
- (10) a. Dori [na Ivan]_F li ne kazaxa za slučiloto se?
 even to Ivan Q Neg said about the-happened refi
 Didn't they tell even Ivan about what happened?' (BL)
 - b. *[Na Ivan] li ne kazaxa dori [za slučiloto se]_F?

 to Ivan Q Neg said even about the-happened refi
 'Didn't they tell Ivan about even what happened?' (BL)

The observation that sentences like (8b) and (8c) are not acceptable is due to Chvany (1973).
Multiple foci are possible in very limited situations, i.e., in corrections of previously uttered questions, and yield an echo reading.

Focus in Bulgarian and Russian Yes-No Ouestions

In (9a), the maximal projection before li. cvetta 'flowers' is associated with the focus sensitive adverb samo 'only' and the question is well-formed. However, in (9h) a maximal projection na Mariia to Maria in the presupposed, i.e., post-li, portion of the question is the associate of samo and the question is ungrammatical. (10) demonstrates that the same nattern holds with the focus sensitive adverb dori 'even'. Thus, focus sensitive adverbs can only take the focused, pre-li maximal projection, as their associate; they cannot be interpreted with constituents elsewhere in the clause.

2.5. Left Dislocation

Left-dislocated constituents cannot appear immediately before li because their backgrounded interpretation is incompatible with the obligatory focus reading of the pre-li maximal projection. Left-dislocated constituents can appear in li questions, but only if another maximal projection or the verb appears before li. These facts are illustrated in (11):

- a. *[Ivanh n li. toi ti kaza7 Ivan O he you told 'Ivan, was he the one to tell you?' (BL)
 - b. IIvanlin [toj] Ivan O vou told 'Ivan, was he the one to tell you?' (BL)
 - c. Ilvanlin [kaza] li ti toi? Ivan told 'Ivan, did he tell you?' (BL)

In (11a) the left-dislocated phrase Ivan appears immediately before it and the question is ungrammatical because of the conflicting requirements that Ivan be focused, due to its pre-li position, and interpreted as part of the background, due to its left dislocation. In contrast, (11b) is fine since the left-dislocated phrase, although coreferential with the focused pre-li constituent, is not itself focused.

2.6. The Domain of Focus

Interestingly, the pre-li position defines the domain of focus, but need not be focused entirely. This is similar to the observation in Chomsky (1971), Jackendoff (1972) that in English clefts, although the focus must be contained within the clefted portion of the sentence, it need not be the entire clefted portion. An example is provided by the question-answer pairs in (12)-(13) (from Chomsky 1971). Although (13a) is a possible answer to (12), so is (13b).

- Was it I an ex-convict with a red shirt I that he was warned to look out for?
- a. No, it was [an AUTOMOBILE salesman], that he was warned to look out
 - b. No, it was fan ex-convict with a red [TIE], that he was warned to look out for.

The felicity of (13b) as a response to (12) shows that the focus may be just a subconstituent of the clefted phrase, in this case tie, and need not be the whole clefted

Similarly, in the XP-li construction if a complex maximal projection is in initial position, some subconstituent of it must be focused, but the remainder of it need not be. The focus intonation associated with the XP-li construction demarcates which portion of the initial maximal projection is the focus, as in (14), (similar to facts discussed in Selkirk 1984)

- (14) a. [[NOVATA]= kola] li prodade (ili starata)? Сат O sold or the-old 'Did you sell your [NEW], car (or the old one)?' (BL)
 - b. [Novata KOLA] li prodade? the-new car O sold 'Did you sell your [new CAR]; (BL)

In (14a) the NP novata kola 'the new car' is in the pre-li position. However, the focus of the question can be the adjective novata 'new' while the head noun kola 'car' may be presupposed along with the rest of the clause. As seen in (14b), it is also possible to focus the entire pre-li NP, although the stress pattern will be different. The same situation holds in Russian, although this is somewhat obscured by the prosodic restriction on Russian li that it appear after the first prosodic word (King 1994).

- (15) a. [[DOROGUR]]₂ li knigul ona expensive O book she bought 'Did she buy lan expensively book?' (RS)
 - b. [Doroguiu li KNIGU]_E ona expensive Q book bought 'Did she buy [an expensive book], ?' (RS)

To summarize the discussion in this section, in the XP-li construction the maximal projection appearing before li (or some subpart of that maximal projection) is obligatorily focused, while the rest of the clause is presupposed and hence cannot contain focused material.

⁴ Li is an enclitic and in Russian it exhibits strict second-word effects. In Bulgarian it is also possible for li to split constituents, i.e., just the adjective can appear before li, as in (i), even though adjectives cannot normally be extracted from NPs.

⁽i) [NOVATA]gli kolaprodade (ili starata)? the-new O car sold or the old

^{&#}x27;Did you sell your [NEW] r car (or the old one)?' (BL)

This placement is a remnant of the second position effets in the placement of li. In Izvorski King, and Rudin (1995) we discuss some of the issues concerning the interaction between the syntactic and phonological requirements on the placement of li.

3. V-li Constructions

Next consider the V-li construction, as in (16). Unlike the XP-li construction, here there is no obligatory focus. Although the verb appears before li, it need not be focused, unlike maximal projections that appear before li. Instead, the question is neutral and simply questions the existence of the event/state of affairs described by the clause. This neutral interpretation can be seen in the appropriateness of answers and in the distribution of contrastive foci and focus sensitive adverbs. As will be seen below, a focus-presupposition reading similar to that of the XP-li construction can be overlaid on the V-li construction. This occurs in the same way that focus can be overlaid on a simple declarative sentence.

3.1. 'Natural' Answers

Since the V-li construction does not contain an obligatory focus or corresponding presupposition, a negative answer negates the entire event/state of affairs. (For related discussion see Hajictova 1983; also see Kiefer 1980 on the felicity of responses to different types of yes-no questions.) The distinction between 'natural' and 'unnatural' answers illustrated in (16) holds in case the question has neutral intonation; if there is emphatic stress on the verb, then the answer in (16b) becomes felicitous.

- (16) [Dadoxte] li nagradata na Marija? gave Q the-prize to Maria Did you give the prize to Maria? (BL)
 - a. Ne, ne i ja dadoxme.
 no not her it gave
 'No, we didn't give it to her.'
 - b. #Ne, prodadoxme i ja.
 no sold her it
 'No, we sold it to her.'

So, in (16), a negative answer denies that the addressees gave the prize to Maria. There is no focus reading on the verb in (16); if such were the case, someone's doing something to the prize would be presupposed and (16b) would be felicitous as it would instantiate the variable in the presupposition.

3.2. Contrastive Foci

We saw that in the XP-li construction the remainder of the clause was presupposed and hence no focus could appear in it. Since the V-li construction does not involve focus-presupposition partitioning, it is predicted that focused phrases can appear anywhere in the clause, as in (17) in which any constituent, including the initial verb, can be focused by emphatic stress.

- (17) a Oni sprosili, [ušel] li Ivan včera.
 they asked left Q Ivan yesterday
 'They asked if Ivan had left yesterday.' (RS)
 - b. Oni sprosili, [USEL], li Ivan včera.
 they asked left Q Ivan yesterday
 'They asked if Ivan had [left], yesterday.' (RS)
 - c. Oni sprosili, [ušel] li [IVAN]_F včera.
 they asked left Q Ivan yesterday
 "They asked if [Ivan]_F had left yesterday.' (RS)
 - d. Oni sprosili, [ušel] li Ivan [VCERA]_F. they asked left Q Ivan yesterday They asked if Ivan had left [yesterday]_F.' (RS)

(17a) is the 'neutral' reading of the question and has no emphatic stress. However, if emphatic stress is placed on any constituent, that constituent is the focus of the question. This stress and corresponding focusing can fall on any item, even though it is the verb that appears before *li*. First, the verb itself can be contrastively focused, as in (17b). The stress on the verb forces a focused reading in which the implication of the question is that Ivan did something yesterday, but the speaker is not sure what, perhaps Ivan left. This contrasts with (17a) in which the question has no such implication and merely asks whether Ivan left yesterday or not. In (17c) the subject *Ivan* is contrastively focused, and in (17d) the adverb vc#ra receives contrastive focus interpretation.

3.3. Focus Sensitive Adverbs

Similarly, in the V-li construction adverbs associated with focus can appear anywhere in the clause, in contrast to the XP-li construction where such adverbs can only be associated with the pre-li constituent.

- (18) a Dade li samo [Ivan] cvetja na Marija?
 gave Q only Ivan flowersto Maria
 'Did only [Ivan] give flowers to Maria?' (BL)
 - b. Dade *li* Ivan samo [cvetja]_F na Marija? gave Q Ivan only flowersto Maria 'Was it only [flowers]_F that Ivan gave to Maria?' (BL)
 - c. Dade li Ivan cvetja samo [na Marija]_F? gave Q Ivan flowersonly to Maria 'Was it only [to Maria]_F that Ivan gave flowers?' (BL)

So in (18) the focus sensitive adverb samo 'only' can be associated with any constituent in the clause.

⁵ The verb can be contrastively focused by emphatic stress in V-li questions.

The above discussion reveals that there is an asymmetry in the behavior of maximal rojections and verbs in *li*-questions. While the XPs preceding *li* are obligatorily iterpreted as focused, when the verb precedes *li* it is not necessarily interpreted as ocused. A similar asymmetry in the behavior of maximal projections and verbs with spect to focus is noted in Selkirk (1984) who observes that "a non-focused NP is ecessarily interpreted as old information, but a non-focused verb is not".

. Analysis

Examples (19) and (20) show that li cannot appear sentence-initially without a onted constituent (a maximal projection or the verb) and also that li cannot follow aximal projections in their base-generated position.

- a. *Li dadoxte nagradata na Marija?
 Q gave the-prize to Maria
 'Was it the prize that you gave to Maria? (BL)
 - b. *Dadoxte [nagradata] li na Marija?
 gave the-prize Q to Maria
 'Was it the prize that you gave to Maria? (BL)
- a. *Li Anna pročitala knigu?
 Q Anna read book
 Was it a book that Anna read? (RS)
 - b. *Anna pročitala [knigu] li? Anna read book Q 'Was it a book that Anna read? (RS)

he ungrammaticality of (19a) and (20a) can be attributed to the fact that li in Russian id Bulgarian is an enclitic and requires a phonological host on its left. The fronting of aximal projections to li and their obligatory focused interpretation, however, cannot it due to the enclitic nature of li (leaving aside the question of whether syntactic overnent can be triggered by phonological requirements). If fronting was solely for a purposes of providing li with a host, we would expect it to be possible for some instituent, let's say the subject, to appear before li while another constituent is terpreted as focused. This, however, is never an option. The maximal projection that rves as a host for li is always interpreted as focused. Maximal projections in-situal never be the focus in li-questions.

The ungrammaticality of (19b) and (20b) further suggests that li's position in the trase structure is fixed and thus provides additional evidence that the variation in ord order in li-questions (XP-li vs. V-li) is the result of XP- or verb-movement.

We analyze this interaction of focus readings and distribution of the pre-limstituent as follows. Li is located in C⁰ and is the lexical realization of the [+Q]

feature and, optionally, of a [+F] feature. The satisfaction of these features' requirements accounts both for the focus reading found in the XP-li construction and for the distribution of pre-li constituents. Our proposal differs from previous analyses of li, such as that of Penčev (1993), in which li in Bulgarian is said to be adjoined to the constituent it questions and thus is given an adverbial status. Rivero (1993) analyzes li as a complementizer but she does not address the question of focus.

To explicate our proposal, first consider what happens when the [+F] feature is present. When li has the [+F] feature, it attracts a maximal projection to its Spec position where the [+F] feature is checked. As a result, the maximal projection is obligatorily interpreted as focused and the rest of the clause is presupposed. The [+Q] feature is also checked via Spec-head agreement between li and the fronted XP. This configuration is shown in (21).

The [+F] feature is optional. However, whenever it is realized, a maximal projection obligatorily appears in the Spec position, attracted by the feature. Why then does the verb appear before li in neutral questions? This is because the verb satisfies li's [+Q] feature, resulting in the neutral question interpretation of the clause. This structure is shown in (22):

In compound tenses, the auxiliary raises, as seen in (23), and as expected under the proposal that verb-movement to li is not triggered by the need for checking of a [+F] feature

- (23) a. Maria beše *li* napisala statijata?

 Maria was Q written the-article?

 'Had Maria written the article?' (BL)
 - b. Bixte *li* mi pomognali? would Q me helped "Would you help me?" (BL)
 - c. Budet Ii on žit' v Moskve? will Q he livein Moscow 'Will he live in Moscow?' (RS)

For example, in (23a) the auxiliary bese moves from I^0 to Ii where it hosts Ii and supports Ii's [+Q] feature. There is no [+F] feature; this is why no constituent is focused and no maximal projection is attracted to Spec, CP.

⁶ There are some reasons to believe that ll in Bulgarian may be located in a functional projection between CP and IP (see Izvorski 1994). Since such details are beyond the scope of the discussion in this paper, we will consider ll to be a complementizer in both languages.

5. The Range of Uses of Li

We presented so far an uniform analysis of the distribution of focus in Bulgarian and Russian II-questions. We next turn to some differences between the two languages that are of interest to our present discussion of focus and the nature of II. While in Russian II is mostly restricted to yes-no questions, Bulgarian allows its use in a wider range of environments. That in Bulgarian II does not necessarily type the clause as a yes-no question is evident from the fact that II is permitted in wh-questions (both root and embedded), while in Russian II cannot cooccur with wh-phrases:

- (24) a. [Kakvo]_F li nameri? what Q found "What on earth did s/he find?" (BL)
 - b. *[Cto] li ona delaet? what Q she do 'What is she doing?' (RS)

In the Bulgarian (24a) li follows the wh-phrase kakvo and the result is similar to an XP-li construction in that kakvo is focused. In contrast, in (24b) li cannot occur with a wh-phrase in Russian, regardless of whether the wh-phrase is focused.

A consideration of a wider range of data reveals that li can also occur in non-interrogative environments. These are primarily exemplified by conditionals and related adjunct clauses, like the ones introduced by Bulgarian kato če li 'as if'. In Bulgarian li

(i) [īvan]_r # [ètu poèmu]_T čital?

Ivan Q this poem read 'Did [Ivan], read [this poem], 7' (RS)

In (i) the object im poèmu 'this poem' is topicalized and appears before the verb, following the focused subject ivan and it in C^0 . In Bulgarian topicalized constituents appear before the focused maximal projection, as in (ii). Note that the lack of clitic doubling indicates that the topicalized constituent is part of the clause, i.e., it is not dislocated.

(ii) a. [Na Marija]r [cvetja], it podari Ivan? to Maria flowers Q gave Ivan

'Was it flowers that Ivan gave to Maria?' (BL)

b. *[Cvetja], ii [na Marija], podaxi Ivan? flowers Q to Maria gave Ivan

The same distinction obtains in the case of wh-questions: topicalized phrases follow the wh-phrase in Russian but precede it in Bulgarian. Here we will not address the question of the proper analysis of this distinction.

Fixed expressions like čio li (literally 'what li') can still appear in some emphatic, tag-like contexts in Russian:

(i) Cto ty nad nami smeeš'sja, čto li'.
what you over us laugh what
'Why are you laughing at us?'

is productively used in conditionals, although it is less common than the ako if complementizer (see (25 a, b)). In Russian, conditionals are formed with esli, esli by if (indicative/counterfactual) and li is mostly restricted to concessive adjuncts (see (25 a, b)):

- (25) a. Zavali li dŭžd, šte si ostanem vkūšti.
 start-fall rain willrefl remain at-home
 'If it starts raining we'll stay at home.' (BL)
 - b. Razvalena li e jabulkata, trjabva da ja hvurliš.
 rotten is the-apple must to it throw
 'If the apple is rotten, you must throw it away.' (BL)
- (26) a. Idet li dožd ili svetit solnce, vse ravno oni guljajut po comes rain or shine sun all equal they walk for

času v den' hour in day

'Whether it rains or it's sunny they still go for a walk for an hour every day.' (RS)

b. Rano li pozdno li no pridu.
early late but will-come
'Whether sooner or later I will come.' (RS)

Both the verb and fronted maximal projections can precede li in these cases, just like in sentences where li is used interrogatively. Thus it appears that the syntax of li is the same in all constructions and what is changing is li's featural composition. A promising extension of our analysis is the position that li is signaling non-assertion, and its feature content, rather than being strictly [+Q] is more along the lines of indefinite truth value. Such an approach would unify the interrogative and conditional uses of li and would account for the fact that li does not appear in declarative clauses. Such as li is the syntax of li and li is the syntax of li and li is the syntax of li and li is the syntax of li in these cases, just like in sentences where li is the syntax of li is the syntax of li in these cases, just like in sentences li in the syntax of li is the syntax of li in the syntax of li is the syntax of li in the syntax of li in the syntax of li is the syntax of li in the syntax of li in the syntax of li in the syntax of li is the syntax of li in the syntax of li in the syntax of li is the syntax of li in the syntax

The link between conditionals and questions is common crossinguistically (e.g. English iflwhether), therefore ll's behavior is not surprising. What is perhaps more interesting is the diachronic relationship between the conditional and the interrogative uses of ll in the two languages. As pointed out above, ll is no longer productively used in Russian conditionals. Its use in matrix interrogative clauses is also becoming more restricted in this language, at least in the absence of focused maximal projections.

Since the use of *li* in this case results in irrealis interpretation, the 'declarative' edva *li* sentences, rather than being a counterexample to our proposal that *li* is a non-assertion complementizer, actually support it.

The distribution of topics in #I-questions in the two languages also deserves to be mentioned in the context of our current discussion. Although #I appears in the same basic configurations in both Bulgarian and Russian, and the distribution of focused elements is the same in the two languages, topicalized constituents behave differently. Topics precede the XP-#I group in Bulgarian, but follow it in Russian. So, in Russian the focused elements appear in SpecCP in initial position, to the left of any topicalized constituents, as in (i).

⁹ We thank Barbara Partee for this suggestion.

¹⁰ In both languages li also appears in the fixed phrase edva li which is used in declaratives but which contributes to them the meaning 'It's doubtful that' (cf. (i) from Bulgarian):

⁽i) Ivan edva li šte dojde.

Ivan hardly will come

^{&#}x27;It's doubtful that Ivan will come.'

instead sentences with declarative word order and interrogative intonation are mostly used as root questions. In fact the most usual way to form a main clause yes-no question is with no interrogative particle at all. In (27a), for example, question intonation is the only formal mark of interrogation. Li in Russian is used primarily for embedded questions and questions with a focused element. In Bulgarian, in contrast, (27b) with no li is ungrammatical.

- (27) a. Anna pročitala knigu? (cf. (2b))
 Anna read book
 'Did Anna read a book?' (RS)
 - b. *Dadoxte nagradata na Marija? (cf. (1b))
 gave the-prize to Maria,
 Did you give the prize to Maria? (BL)

So, unlike in Russian, in Bulgarian, *li* is fully productive in both root and embedded interrogative clauses as well as in conditionals. Thus it appears to be the case that what is being lost in Russian is the ability of *li* to function as an unselected complementizer. This loss directly affects root and adjunct environments, leaving intact only embedded interrogatives.

If the idea just suggested is on the right track, then it also would provide a way of accounting for the fact that li is disallowed in wh-questions in Russian, but is permitted in Bulgarian. A development that would make the use of li in conditionals obsolete would also affect its feature content and would narrow down non-assertion to [+Q]. The contents of the complementizer could then be even further restricted from a general interrogative to just a yes-no complementizer. This would prevent li from occurring in wh-questions in Russian since the requirement that the clause be a yes-no question will conflict with the requirements of the wh-phrase.

The synchronic effect of the changes discussed above can be summarized in the following way. We started the discussion in this paper proposing that li is a lexical realization of the features [+Q] and [+F]; we saw that the presence of [+F] was optional (i.e. absent in the V-li construction), and now we see that li is not necessarily [+Q] either. So, for Bulgarian we may conclude that the featural content of li is non-assertion (i.e. subsuming both the interrogative, [+Q], and the conditional uses). In the productively used Russian constructions, li, which was originally a non-assertion complementizer, is now restricted to a yes-no complementizer. Thus it seems that in Russian the li construction is becoming more restricted, with not only the non-interrogative uses but also the root occurrences that do not involve focusing tending to become archaic or marginal, while in Bulgarian a broader range of uses remains robust.

6 Conclusion and Cross-Linguistic Application

In conclusion, we have seen that both Bulgarian and Russian yes-no questions can be formed with the interrogative head li. There are two types of li constructions: one in which a maximal projection appears before li and one in which the verb does. These

two syntactic structures correspond to different interpretations. In the XP-li construction, the [+F] feature of li attracts a maximal projection to the Specifier position of li, where the fronted XP is obligatorily focused and the remainder of the clause is correspondingly presupposed. The V-li construction results when li has no [+F] feature. The verb moves to the head where li is (namely, C^0) to check the [+Q] feature of li. There is no obligatory focusing since there is no [+F] feature to be checked and the result is a neutral yes-no question.

Thus, a division of yes-no questions into neutral and focus-containing types is supported by syntactic evidence in Bulgarian and Russian questions with the interrogative head li. The basic analysis proposed for Bulgarian and Russian yes-no questions formed with li can be extended to other languages with question particles. In particular, the Finnish particle ko and the Turkish particle mi pattern similarly to the li constructions. First consider Finnish. As seen in (28), the question particle can follow the verb, resulting in neutral yes-no question interpretation as with the V-li construction in Bulgarian and Russian. The neutral interpretation is indicated by the natural answers in (28 a, b).

- (28) Juo-tt-i-ko Jussi Marja-lle vodka-a? drink-caus-past-Q John Mary-alla vodka-part 'Did John make Mary drink vodka?'
 - a. Juott-i.drink-PAST'(Yes), he made her drink.'
 - b. Ei juotta-nut.not drink-PAST.NEG'(No), he didn't make her drink.'

As with the li construction, a maximal projection can precede the question marker ko and the resulting interpretation is necessarily that of focusing the pre-ko phrase. This is demonstrated in (29)—(31).

(29) [Jussi]-ko Marja-lle vodka-a juotti?

John-Q Mary-alia vodka-part drink-caus-past
'Did [John]_F make Mary drink vodka?'

Ei, vaan Pekka. No, but Peter. 'No, Peter did.'

(30) [Marja-lle]-ko Jussi vodka-a juotti? Mary-alla-Q John vodka-part drink-caus-past 'Did John make [Mary]_F drink vodka?'

For discussion of the Finnish question/focus particle see Vainikka (1991); the Turkish question/focus particle is discussed in Kuno (1980).

vaan Liisa-lie Ei but Lisa-alla No 'No. Lisa was made to.'

[Vodka-a-ko] Jussi Maria-lle motti? vodka-part-O John Mary-alla drink-caus-past Did John make Mary drink [vodkal-?

> Ei vaan viini-ä No. but wine-ptv. 'No. wine."

Next consider the Turkish data. The ves-no question marker in Turkish is mi. which has four vowel harmony variants. When mi is affixed to the verb, the result is a neutral ves-no question, as seen by the question-answer sequence in (32).

Azize kanamavı pisirdi mi? Azize kanama cook O 'Did Azize cook the kapama?'

> Hayır, pişirmedi. cook-Neg 'No she didn't cook it '

However, when mi appears after a constituent other than the verb. 12 that constituent is focused, as in (33) and (34).

Azizel mi kapamayı pişirdi? O kapama cook 'Was it Azize who cooked the kapama?'

> Havir Durdugül pişirdi. No Durdugul cooked 'No, Durdugul cooked it.'

Azize [kanama] m1 pisirdi? Azize kapama O cook 'Was it kapama that Azize cooked?

> Havir baklava. No. (she cooked) baklava.

Thus, the Finnish and Turkish constructions demonstrate that the distinction between XP-li type constructions which encode obligatory focus on the maximal projection and V-li type constructions which encode neutral ves-no questions is necessary for the analysis of ves-no questions in a number of unrelated languages.

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¹² The word order in (33) is relatively free in that the focused subject Azize and the question particle m1 can also appear in the cannonical focus position, immediately preceding the verb.