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Presupposition and the syntax of negation in Hungarian

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This study analyzes and brings together two seemingly unrelated phenomena in the grammar of Hungarian.⁰ The first is the meaning and the syntax of negation; the second is the meaning of the temporal connective *amíg* 'while'. Relating these two phenomena in an explicit way provides insights for the solution of a particularly puzzling problem in the syntax/semantics interface of Hungarian grammar.

The problem to be investigated, however, is of more general theoretical interest. The central issue is about how a language lacking a highly functional lexical item (in this case, the temporal connective *until*) utilizes other available resources to express this concept. The requirements of *amíg* 'while', the syntax and meaning of negation, and the expression of aspect all converge to yield a dual function for a single connective in Hungarian.

The problem can be sketched as follows. Hungarian grammarians (e.g., Lotz (1988/1939: 263)) have long observed that Hungarian has two distinct syntactic correlates of sentential negation, the one reflecting ordinary negation, and the other, 'emphatic' negation. The distinction is apparent only when the verb has a preverb (PV): in this case, the preverb obligatorily FOLLOWS its verb under ordinary negation and obligatorily PRECEDES the negation marker nem under 'emphatic' negation, as exemplified in (1):

- (1) a. Nem megyek be a lakásba.

 NEG go.I PV the flat.into

 'I won't go into the flat'
- Be nem megyek a lakásba.
 PV NEG go.I the flat.into 'I WON'T go into the flat'

ordinary negation

'emphatic' negation

Indicative of 'emphasis' in (1b) is the heavy stress which the preverb receives. The English equivalent of (1b) also employs heavy stress to this end (but on the auxiliary), thereby distinguishing the two types of negation phonologically.

auxiliary), thereby distinguishing the two types of negation phonologically. If the semantic difference between (1a, b) is indeed one of 'emphasis', a characterization which is both intuitively and demonstrably correct, then it is puzzling why the 'emphatic' order should appear in another context in which no apparent 'emphasis' is at stake. This context is the *amig*-clause:

(2) Addig vártam, amíg János be *nem* ment a lakásba. that till waited. I while John PV NEG went the flat into 'I waited until John went into the flat'

Standard Hungarian grammars (e.g., Rácz (1971: 385-386)) make it clear that the preverb should precede nem 'NEG' in amíg-clauses, though it remains very unclear why this should be so. No obvious 'emphasis' is at work here, neither intuitively nor in the form of a heavy stress on the preverb, strongly suggesting that any

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postulation of *amíg*-clauses as 'emphatic' contexts would be unmotivated. Yet if there is no 'emphasis', then why the syntax of 'emphatic' negation? To get a grip on this question, the meaning of both 'emphasis' and *amíg* has to be more carefully investigated.

The paper is organized into three parts. In the first I examine the syntax and meaning of negation in Hungarian, yielding a characterization of the difference between ordinary and 'emphatic' negation. In the second I tackle the meaning of amig' while', arguing that it takes two sentences as arguments, with the added requirement that the predicate of its first argument appear in the imperfective aspect. Finally, in the third and final section I bring the results of the first two sections together to propose that broken order in Hungarian does not derive from emphasis alone, but rather has an additional source in meaning of amig.

1. Syntax and meaning of negation

Hungarian has a rich set of separable preverbs: *meg* (completive marker), *be* 'in', *ki* 'out', *el* 'away', *fel* 'up', *bele* 'into', *le* 'down', etc. These combine with a great many verbs to form both semantically compositional and non-compositional units, the latter case obtaining whenever the original concrete adverbial sense of the preverb has been lost. A bare verb is one without a preverb; a **complex verb** is one with a preverb. The following are some examples of complex verbs:

 meg-néz 'look at', be-jön 'come in', be-csap 'cheat', ki-oszt 'distribute', el-megy 'go away', fel-mászik 'climb up', bele-szeret 'fall in love', etc.

The preverb normally appears immediately in front of its host verb, yet under definite syntactic conditions it cannot. I now review these conditions.

1.1. Preverb after the verb

The preverb is said to appear in **postverbal order** whenever it follows its host verb. This happens if a certain type of element must itself appear in immediate preverbal position. I exemplify the relevant cases in (4):

- (4) a. János be ment a lakásba.

 John PV-went the flat.into

 'John went into the flat'
- a'. *János ment be a lakásba.

 b. János *nem* ment be a lakásba.²

 John NEG went PV the flat.into
- 'John didn't go into the flat'
 b'. *'János nem be-ment a lakásba.
 c. CSAK János ment be a lakásba.
 only John went PV the flat.into
 'Only John went into the flat'
- c'. *CSAK János be·ment a lakásba.d. MARI ment be a lakásba.
- 'It is MARY who went into the flat d'. *MARI be ment a lakásba.

sentential negation (cf. (1a))

normal (preverbal) order

[bad as sentential negation]

<u>csak-focus predication</u>

exhaustive listingfocus predication

- KI ment be a lakásba? 'Who went into the flat?'
- *KI be-ment a lakásba?

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in Hungarian must appear in immediate preverbal position, thereby preempting the preverb from occurring there as well.⁴ (4b-e) give four contexts in which the postverbal order of the preverb must be instantiated.³ These contexts reflect the generalization that the focussed constituent

1.2. The syntax of negation

exemplified again in (5): As was noted in (1), Hungarian has two distinct syntactic reflexes of the semantic

(5) a. Senkit nobody.ACC NEG killed.I PV 'I didn't kill anyone'

ordinary negation

'I DIDN'T kill anyone' Senkit meg nem öltem.

'emphatic' negation

postverbal order of the preverb in (5a) supports only the unemphatic interpretation, whereas the pre-nem order of the preverb in (5b) supports only the 'emphatic' one. Whenever nem 'breaks' the PV-verb order as in (5b), this I will call broken The correspondence between the semantics and the syntax here is one-to-one: the

prohibitory command correlates with postverbal order and the stronger one with broken order (*ne* is prohibitory NEG): The same pattern is observed in the imperative, where the weaker

(6) a. Ne Ne menj be a lakásbal NEG go.IMP PV the flat.into Be ne menj a lakásba! 'DON'T (you dare) go into the flat!' 'Don't go into the flat!'

ordinary prohibition

'emphatic' prohibition

include both declaratives and imperatives as particular cases. (6) suggests that the account of negation we seek has to be general enough

position. Yet if the preverb occupies the focus position, then no other element can occur in that position, and therefore the focus contexts illustrated in (4c-e) for postverbal order should be incompatible with 'emphatic' negation. This expectation Hungarian has a single syntactically determined focus position which is preverbal (cf. E. Kiss 1987). If the propositions expressed by sentences like (1b, 5b, 6b) are indeed 'emphatic', then potential syntactic evidence for their 'emphatic' character would be that the preverb in broken order is actually in this focus

(7) a. Mari Mari be nem ment a lakásba. Mary PV NEG went the flat.into 'Mary DDN'T go into the flat'

emphatic' negation

*KI be nem ment a lakásba?
'Who DIDN'T go into the flat?' *CSAK Mari be nem ment a lakásba.
'Only Mary DIDN'T go into the flat' *MARI be nem ment a lakásba. 'It is MARY who DIDN'T go into the flat (cf. (4d) (cf. (4e)

(cf. (4c)

In exactly this case no other focussed constituent is possible. The ungrammaticality of (7b-d) is explained if the preverb is in the focus position

negation (cf. (1a, 5a, 6a)), for here the preverb surely does not occupy the focus On the other hand, there should be no compatibility problem with ordinary

(8) a. Mari nem ment be a lakásba.

Mary NEG went PV the flat.into CSAK Mari nem ment be a lakásba 'Only Mary didn't go into the flat' 'Mary didn't go into the flat ordinary negation (cf. (4d)) (cf. (4c))

MARI nem ment be a lakásba. KI nem ment be a lakásba? 'It was MARY who didn't go into the flat

(cf. (4e)

constituent whenever the sentence expresses ordinary negation. (8) verifies the expectation that the focus position is free to be filled by another

'Who didn't go into the flat?'

work in these two types of negation. This in turn lends credence to the idea that a significant semantic difference is at The facts in (7, 8) offer a telling syntactic argument in support of the hypothesis that the preverb occupies the focus position in sentences expressing emphatic' negation, whereas it does not in those expressing ordinary negation.

1.3. The meaning of emphasis

affirmation can also be 'emphatic', though here the syntax makes no apparent One thing to keep in mind about 'emphasis' is that it is not restricted to negation: distinction:

(9) a. Mari Mari FEL-hívta Jánost tegnap. Mary PV-called John.ACC yesterday COMPARE: 'Mary DID call up John yesterday'
COMPARE: Mari fel hívta Jánost tegnap.
'Mary called up John yesterday' 'emphatic' affirmation (strong stress on fel) ordinary affirmation

both negation and affirmation as particular cases. Thus, our characterization of 'emphasis' will have to be general enough to include

described as follows: given ϕ as a metavariable over proposition variables (e.g., p, q), the first part is the truth-conditional meaning ϕ , the second is the context tease apart this characterization, thereby rendering its components more salient. In In the literature on Hungarian, Kálmán et al. (1989: 69) provide an informal characterization of emphasis: "it's not true that not p; indeed p." The task is to particular, I argue that this characterization actually consists of three parts,

proposition $\sim \phi$, and the third ("indeed p") is the speaker's intention that the truth of ϕ be satisfied. I discuss each of these parts in turn.

unemphatic proposition its truth-conditional meaning. Thus, emphatic affirmation is derived as a particular case just when $\phi = p$, while emphatic negation results distinguished from unemphatic propositions in their truth-conditional content. The first claim is that an emphatic proposition shares with its corresponding There is no reason to think that emphatic propositions are

sentence expressing an emphatic proposition $\sim p$, actually accepts or believes in the truth of p (she cannot, for she rejects it with $\sim p!$). Nor need the speaker take it for granted that the hearer actually agrees to the truth of p. Rather, the appropriate notion seems to be that of 'context proposition', introduced for independent reasons support from a context proposition, here represented as ~\phi. I accept Horn's (1989: 73; p.c.) view that the notion 'pragmatic presupposition' (a.k.a. 'conventional implicature') is too strong to accurately characterize the sort of context and a proposition which the speaker can either explicitly accept or reject in the course of the discourse (cf. Fillmore *et al.* (1988: 513-514, 532)). The use of which is part of either the spoken or unspoken, pragmatically given and shared in Fillmore et al. 1988. A context proposition is a previously posed proposition proposition involved. For example, it is not the case that the speaker, in uttering a Unlike an ordinary proposition, however, an emphatic proposition requires

condition tells us what actions count as complying with a requestive, a fulfillment condition tells us what counts as fulfilling a promissory, etc. Every proposition has a converted condition; emphatic propositions require, in addition, that the speaker condition'—really an abstraction covering particular conditions—which determines how the illocutionary type in question is to be 'successful'. For example, a truth in uttering a sentence expressing an emphatic proposition, intends for the converted condition (cf. Katz (1977: 120-122)) of the proposition to be satisfied. Every illocutionary type of a proposition has a certain 'converted that the truth of the emphatic proposition hold. This component is not constitutive of ordinary negation. One way of elaborating this claim is to say that the speaker, condition tells us what must hold in order for an assertive to be true, a compliance emphasis invariably conveys a rejection of a particular context proposition.

The third and final component of emphasis involves the speaker's intention intend for the converted condition to be satisfied.

favor of it: sum up my characterization of emphasis before adducing arguments in

(10) The meaning of emphasis Truth-conditional meaning: o

Speaker intention: Speaker intends for the converted condition of the illocutionary type of φ to be satisfied. Context proposition: ~ \(\phi \)

and the 'speaker intention' parts. The two components of (10) that need some argument are the 'context proposition

proposition **p** of emphatic negation, whereas ordinary negation does not require any such context proposition: First, it can be shown that the discourse context is sensitive to the context

> (11) a. A: Hallottam, hogy nem utazol el heard.I COMP NEG travel.you PV I heard that you are not leaving tomorrow. MOLLOMOT holnap.

Ä lgen, nem utazom el.

Yes, I'm not leaving. NEG travel.I PV

ordinary negation

heard.I COMP NEG travel.you PV I heard that you are not leaving tomorrow. MOLLOWOI

5

P

#Igen, el nem utazom

#Yes, I WON'T leave. PV NEG travel.I

emphatic negation

comparison, B's reply in (11b) is at best bizarre, if not simply incoherent in the given context. The analysis in (10) sheds light on this incoherence in that B's the context proposition requirement for emphasis. This difference between (11a) and (11b), then, constitutes an argument in favor of assumes or at least has good reason to think that ~p, as is clear from her statement emphatic reply $\sim p$ (her not leaving) would require the context proposition p (her leaving) in order to be felicitous. But the given context does not support p, for A reason to believe. Ordinary negation is therefore perfectly felicitous here. (11a) is perfectly natural—she simply reaffirms what A already assumes or has The contrast between (11a) and (11b) is one of discourse coherence. B's reply in

and emphatic negation derives from the following contrast: A second argument in support of a meaning difference between ordinary

(12) a. Vagy ki-megyek, vagy nem megyek ki. or PV-go.I or NEG go.I PV

'Either I go out or I don't go out'

*Vagy ki-megyek, vagy ki nem megyek.
'Either I go out or I WON'T go out'

emphasis usually does not stem from the speaker herself. Rather, it is typically a contextually available proposition which the speaker makes implicit reference to. second disjunct leads in part to the bizarre reading, for the context proposition in a distinct possibility in the first disjunct and then emphatically negating it in the (12a) is a tautology—it is necessarily true. In contrast, (12b) is neither tautological nor felicitous. Although the exact reason for the infelicity and bizarre nature of (12b) is not obvious, I suspect that explicitly mentioning the context proposition as

fundamental point is that the ordinary negation in (12a) is subject to neither the context proposition nor the speaker intention requirement, and hence (12a) is perfectly felicitous.⁷ intention, then again it is puzzling why she should mention the first disjunct (her going out) as a distinct possibility. Whatever the exact explanation for (12b), the The bizarreness of (12b) probably also derives from the third component of (10)—from the fact that the speaker intends for the truth conditions of the second disjunct of (12b) (her not going out) to be satisfied. If such is the speaker's

is explained by the speaker intention requirement. propositions expressing emphatic negation cannot be used as yes/no questions: Third and finally, there is an interesting restriction on emphatic negation that The restriction is that

(13) a. 'Are you going out today?'
Ma nem mész ki? today PV-go.you ki·mész?

*Ma ki nem mész?8 'WON'T you go out today?' Are you not going out today?'

ordinary negation

emphatic negation

between the meaning of emphasis and the pragmatics of questions. By (10) the speaker, in uttering (13c), must intend for the truth conditions of the negated proposition to be satisfied. Yet having this intention is incompatible with her ordinary negation are perfectly good. I suggest that this is due to an incompatibility asking whether she has that intention, and so (13c) is infelicitous. Questions of the sort in (13c) are systematically ruled out, whereas those with

clause need not be identified: Note, incidentally, that in statements the speaker and the subject of the

Ma ki nem mész. 'You WON'T go out today'

emphatic negation

Independent of the intentions of the hearer, in uttering such a sentence the speaker clearly intends for the hearer's not going out to hold for the period of today.

accepting the essential correctness of (10) as the meaning of emphasis in Hungarian (and presumably more generally as well). Since emphatic negation has the syntactic correlate of broken order, a reasonable guess would be that broken order is possible following subordinate contexts in this light: in any syntactic context compatible with the meaning of emphasis. Consider the I believe that the previous three arguments constitute firm grounds for

(15) a. Ha *nem* fejezed be a munkát, if NEG finish.you PV the work.ACC

... nem NEG pay.I fizetek semmit. nothing.ACC

If you don't finish the work, I'm not paying anything' emphatic

a'. *Ha be nem fejezed a munkát, nem fizetek semmit. emph b. Miután Mari nem érkezett meg, ki-mentem meg-keresni. after Mary NEG arrived PV PV-went.I PV-look-for.INF

'After Mary didn't arrive, I went out to look for her'

*Miután Mari meg nem érkezett, ki-mentem meg-keresni. emphatic

a context proposition or to express the speaker's intention that its truth hold. semantically presupposed, and so clearly it cannot be used at the same time to deny satisfied. Analogously, the proposition expressed by the after-clause in (15b) is express the speaker's intention that the truth conditions of the said proposition be among others), and hence by its very nature cannot deny any context proposition or in a sentence like (15a) expresses (but does not assert) a future possibility (one incompatible with meaning of emphatic negation as given in (10). The conditional It is straightforward to see that the meanings of both if and after-clauses are

of emphasis: Not all subordinate contexts, however, are incompatible with the meaning

> (16) a. Ki-jelentettem, hogy nem meg PV-declare.I COMP NEG go.I megyek ki a szobából. go.l PV the room.out-of

'I declared that I wasn't going out of the room'
Ki jelentettem, hogy ki nem megyek a szobából. 'I declared that I WOULDN'T go out of the room emphatic

Thus, broken order is not ruled out altogether in subordinate clauses. propositional argument of declare. Both the context proposition and the speaker intention requirements for emphasis are maintained in this embedded context. In (16b) there is no semantic incompatibility between emphasis and the

broken order is puzzling. We now examine this context. Nonetheless, there is one subordinate context in which the appearance of

2. Syntax and meaning of amig 'while'

grammar is that the syntax of emphatic negation shows up in a subordinate context where no apparent emphasis is at stake. This is the *amig*-clause:9 As was stated at the outset of this paper, an unsolved problem in Hungarian

(17) a. (Addig) olvastam, amíg János le *nem* that.till read(PST).I while John PV NEG 'I read until John lay down to sleep' lay feküdt.

(Addig) beszélgettünk, amíg Mari We talked until Mary called us up talked.we amíg Mari fel nem hívott while Mary PV NEG called

respectively. They simply describe a temporal relation between two eventualities. Hungarian grammars (e.g., Rácz 1971: 385-386) stipulate that the broken order PV-NEG-V is required in such clauses, leaving us to wonder why the much more subordinate clauses neither deny any apparent context proposition nor implicate the usual postverbal order NEG-V-PV should be ruled out. speaker's intention with respect to John's lying down or Mary's calling up. Sentences like (17a, b) are perfectly good and the propositions expressed by the

Temporality

determiner: az 'that' $+-i\hat{g}$ 'till'; it anticipates the amig-type of subordinate clause.) (18) gives the more literal though nevertheless still grammatical English renderings of (17): the temporal connective until, the Hungarian sentences do not. In fact, Hungarian One thing to notice about (2, 17a, b) is that although the English renderings employ lacks the (linguistic) equivalent of the temporal connective until, employing amig while' instead for this purpose. (addig in (17) is an optional case-inflected

(18)'We talked while Mary was not calling us up 'I read while John was not lying down to sleep

way in English of expressing their meanings, namely with the connective until (18a, b) are odd for the very reason that there is a more direct and parsimonious

of the temporal connective until excludes the possibility of there being a more direct way of expressing the intended sense. (2, 17a, b) are completely natural in Hungarian, for the absence of the equivalent Such utterances would therefore constitute Gricean manner violations. In contrast

We might ask whether postverbal order is even possible in *amig*-clauses: Hungarian grammars (e.g., Rácz 1971), by stipulating broken order in this construction and not even mentioning the possibility of postverbal order, would have us believe that postverbal order should be bad in this context. Yet this is not

quite so, though there is a subtle difference in meaning (cf. (17a, b)):

(19) a. (Addig) olvastam, amíg János nem feküdt le. that till read(PST).I while John NEG lay PV 'I read while John was not lying down to sleep [i.e., while he was

(Addig) beszélgettünk, amíg Mari nem hívott fel. that.till talked.we while Mary NEG called PV We talked while Mary was not calling us up [though we expected her to call at any moment]

which is cotemporaneous with the interval denoted by the predicate in the main clause. In other words, broken order in the *amig*-clause yields the reading best rendered by *until*, whereas postverbal order results in the reading best rendered by another interval (John's not lying down, Mary's not calling us up, respectively) The basic idea about the precise difference between (17) and (19) is this: the amig-clause in (17a, b) focuses on the endpoint of the interval denoted by the predicate in the main clause, i.e., the endpoint is when John lies down to sleep, Mary calls us up, respectively, whereas the same clause in (19a, b) describes

Evidence that this is a real distinction comes from the interaction with quantifiers. The syntactic difference between (17) and (19) indeed correlates with a semantic difference:

(20) a. *Addig vártam, amíg senki *Addig vártam, amíg senki le *nem* tek that.till waited.I while nobody PV NEG lay 'I waited until nobody lay down to sleep

Addig vártam, amíg senki nem feküdt le.

Addig vártam, 'I waited while nobody was lying down to sleep [i.e., while everyone was still up]' feküdt

Addig vártam, amíg mindenki le nem fek that.till waited.I while everyone PV NEG lay

Addig vártam, amíg mindenki nem feküdt le. 10 'I waited while everyone was not lying down to sleep 'I waited until everyone lay down to sleep

Why the contrast between (20a) and (20a')? If, as I have informally suggested, amig + PV-NEG-V really denotes an endpoint for the interval denoted by the predicate in the main clause, then the description of this endpoint must be (20a), then, is that the description of nobody lying down to sleep is not sufficient to pick out such an endpoint. The waiting interval ends when nobody lies down to informative enough to enable us to pick out the relevant endpoint. The difficulty in

> enable us to pick it out. sleep, yet there are too many points compatible with this description: we cannot interval—not a point—cotemporaneous with the one described by the main clause. Unlike the point description, the interval description IS informative enough to this difficulty precisely because the postverbal order in the amig-clause describes an determine which point is the relevant one. The description in (20a') gets around

(20b, b') pose no special problem; they are included because they strongly contrast with each other in regard to their meanings. (20b) describes an interval of waiting bounded by the endpoint of everyone lying down to sleep. (20b'), on the other hand, describes an interval of waiting cotemporaneous with the interval of everyone not lying down to sleep. The universal quantifier makes these readings more salient than with referring NPs.

denoted by the predicate in the main clause and describing an interval cotemporaneous with that interval, respectively. This characterization, however, emphatic and ordinary negation, though the former pattern is by all means the most prevalent. These two syntactic patterns differ semantically in a way analogous to remains to be sharpened. 11 the meaning of *until*-clauses and *while*-clauses, respectively. I informally characterized this difference as one between supplying an endpoint for the interval Thus far, I have established that amig-clauses allow the syntax of both

2.2. The syntax of negation in amig-clauses

In this section I show that the two syntactic patterns of negation found in amig-clauses are really the same two patterns exemplified earlier in main clauses.

indeed the focus tests (cf. (4c-e)) indicate that it does: As before, we expect that the preverb should occupy the focus position (cf. (7)) and Consider (21a), a sentence with the syntactic pattern amíg + PV-NEG-V

(21) a. Olvastam, amíg Mari fel nem hívott read(PST).I while Mary PV NEG called I read until Mary called me up hivott

*Olvastam, amig CSAK Mari fel nem hivott.
'I read until only Mary called me up'

(cf. (4c, 7b))

*Olvastam, amíg MARI fel nem hívott.
'I read until it was MARY who called me up'

(cf. (4d, 7c))

Hearer's reply to (21a), which was not completely heard:

*Amíg KI fel nem hívott?? 'Until WHO called me up??'

(cf. (4e, 7d))

occupies the focus position. Such data demonstrate that exactly the same syntactic structure is under investigation in both main clauses and amig-clauses. The ill-formedness of (21b-d) is completely expected if the preverb in broken order

clearly not in the focus position. Again, this expectation is borne out (cf. (8b-d)). ordinary negation, for here the preverb appears in postverbal order and hence is On the other hand, we do not expect a conflict to arise in the case of

(22) a. Olvastam, Olvastam, amíg Mari nem feküdt le. read(PST).I while Mary NEG lay PV 'I read while Mary was not laying down to sleep'

Ö, Olvastam, amíg CSAK Mari nem feküdt le. 'I read while only Mary was not laying down to sleep'

Olvastam, amíg MARI nem feküdt le.

?

'I read while it was MARY who was not laying down to sleep

Hearer's reply to (22a), which was not completely heard: Amíg KI *nem* feküdt le??

'While WHO was not going out??'

at work here. pragmatically, further support my claim that the usual syntax of ordinary negation is The fact that (22b-d) are syntactically well-formed, even if difficult to contextualize

exhibit the same syntax both in main clauses and in amig-clauses Henceforth I take it as established that both ordinary and emphatic negation

2.3. The meaning of amig 'while'

I now turn to a closer examination of the meaning of amíg 'while' in Hungarian. This is necessary if we are to gain some understanding of why the syntax of emphatic negation occurs so overwhelmingly in this context.

'while' has nothing to do with negation: The first thing to observe is that the truth-conditional meaning of amig

(23) Amíg János jött fel a lépcson, (addig) olvastam, while John came PV the stairs.on that.till read(PST) While John was coming up the stairs, I was reading, came PV the stairs.on that.till read(PST).I hallottam, ki-néztem az ajuut, beard.I PV-looked.I the door on and saw.I

láttam,

but noise.ACC heard.I

but (then) I heard a noise, I looked out the door and saw hogy el-ájult, mielőtt fel tudott volna jönni. COMP PV-fainted before PV could.he would come that he had fainted before being able to reach the top'

though the preverb appears in posiverbal order. Postverbal order of the preverb with an empty focus position is the means of expressing imperfective aspect in Hungarian (cf. E. Kiss (1987: 69-76)). The point is that (23) shows that amig is first clausal argument. No negation of any sort is required. able to take an accomplishment predicate (coming up) in imperfective aspect as its The first clause of (23)—the amig-clause—contains no negation marker, even

compatible with the requirements of amig, an event predicate in perfective aspect (i.e., preverbal order) yields bad results: Second, while an event predicate in imperfective aspect (postverbal order) is

(24) a.О, Boldog voltam, amíg Mari a feleségen happy was.I while Mary the wife.my 'I was happy while Mary was my wife' [state, amig *Boldog voltam, amig Mari ki nézett az ablakon. happy was I while Mary PV-looked the window.on 'I was happy while Mary looked out the window' feleségem volt. Was [state, amig state] state, amig event

> past in English is ambiguous or unmarked for aspect. Although the English translation of (24b) is perfectly good, it is ruled out in Hungarian. This is because *amig* requires an event denoting predicate to appear in imperfective aspect, which is effected by postverbal order of the preverb. This difference between English and Hungarian may be due to the fact that the simple

denoting predicates. event predicate does no longer an event but rather a negative type of state. If this is correct, then there is no difficulty, for *amig* combines unproblematically with state Yet if preverbal order expresses perfective aspect, what does broken order with nem (cf. (2)) express? I follow Link (1987: 4) in hypothesizing that a negated

presupposed: (25a), it is evident that the eventuality denoted by the amig-clause is semantically Third, assuming the standard definition of semantic presupposition given

(25) a. A semantically presupposes B if A ||− B and ~A ||− B (||− = 'entails'; McCawley (1981: 236))
b. Beszélgettünk, amíg Mari fel nem hívott. talked.we while Mary PV NEG called

'We talked until Mary called us up' (rep. Nem beszélgettünk, amíg Mari fel nem hívott. (repeated from (17b))

'We didn't talk until Mary called us up'

ç.

(cf. (19b)). In (25b, c) what is presupposed is the (negative) state of Mary's not calling us up. The same is presupposed when nem occurs with the preverb in postverbal order

over which the proposition of the amig-clause is not true. That is to say, if ϕ is the is an interval t? immediately following t at which $\sim \phi$ is true: there is an interval immediately following the interval denoted by the amig-clause proposition expressed by the amig-clause and if ϕ is true at the interval t, then there Fourth and finally, amig carries a conventional implicature which states that

(26) a. *Beszélgettink, amíg Mari soha fel talked.we while Mary never PV 'We talked until Mary never called us up' nem hívott.
NEG called

ь. *Beszélgettünk, amíg Mari fel *nem* talked.we while Mary PV NEG NEG called PV nem hivott fel. hívott, de végül called but end.as

'We talked until Mary called us up, but in the end she didn't call us up

(26a, b) are bad because the possibility of such an interval following is explicitly

refuted. This, then, is incompatible with the conventional implicature of amig.

The considerations presented thus far serve to motivate the following proposal as the interpretation of amíg:

(27) amig (while) denotes a set of pairs of eventualities <e1, e2>, such that if e1 is an event (in the narrow sense), its event predicate must be in

a. imperfective aspect, and:

In, which is a new reference point, in the sense that it is not a member of the set of previously introduced reference times;

6 e1 (subordinate), is interpreted with respect to r1;

- ? previously introduced reference times; Er2, which is also a new reference point with respect to the set of
- 00 to 0 e2 (main) is interpreted with respect to r2;

emantically presupposes: e1 holds at interval t;

Conventionally implicates: if [e1 holds at interval t] is true, then is false; if e2 is an event (in the narrow sense) and [e2 holds before interval t'] is true, then [e2 holds at interval t'] for the interval t' immediately following t, [e1 holds at interval t']

Armed with the interpretation of amíg given in (27), we are now ready to conclude with an explicit proposal regarding the interaction of the syntax of negation with amig-clauses.

Conclusion: relating negation to temporality

I believe that all this reduces to the meaning of amíg (cf. (27)), the expression of aspect in Hungarian, and the fact that Hungarian lacks the equivalent of the English temporal connective until. That is, emphasis is only one source for broken order. correlates with broken order and the while-reading with postverbal order (cf. (20)) order in amig-clauses (cf. (2) and elsewhere), but also how the until-reading Recall that we need to explain not only the possibility and prevalence of broken

Consider the following examples once again, repeated from (17a) and

(19a), respectively.

(28) a. (Addig) olvastam, amíg János le *nem* that.till read(PST).I while John PV NEG I read until John lay down to sleep lay feküdt

(Addig) olvastam, amíg János nem feki that.till read(PST).I while John NEG lay 'I read while John was not lying down to sleep' feküdt le. lay PV

order in (28b) with the while-reading? Why does broken order in (28a) correlate with the until-reading and postverbal

at t', this means that the event denoted le-feküdt (its negation) is true at t'. Yet it is exactly this event reading which is so robust with broken order, yielding the effect interval t, and by (27g) there is an immediately following interval t' at which this eventuality does not hold. In other words the negative state denoted by *le nem fekildt* is true at t but is false at t'. But if the state denoted by *le nem fekildt* is false in postverbal order. The preverbal order of *le-fekūdt* expresses perfective aspect, hence it is incompatible. Negating the event, however, results in a negative type of state, by hypothesis. By (27f) this eventuality is presupposed to hold at a given the intervening negation marker *nem*. This would be ruled out by the requirement of *amig* that event denoting predicate appear in imperfective aspect (cf. (27)), i.e., of an until-reading. Let us begin with (28a). Suppose the verb le feküdt were to appear without

order can express imperfective aspect, the negation marker is not present out of any incompatibility between the verbal predicate the requirements of amig. Its presence Turning to (28b), we now ask about the postverbal order. Since postverbal

> predicate. Suppose that we include it; then the negated predicate nem feküdt le similarly denotes a negative type of state (by hypothesis). By (27f) this (negative) is thus optional, though of course including it will change the interpretation of the is the presumed source of the while-reading in (28b). denoted by fekudt le. But this an event expressed in imperfective aspect, i.e., this this means that the negation of this negative state holds at t', namely the event state holds at the interval t; thereafter, by (27g), it does not hold at t?. Of course,

connectives can take an event denoting predicate in perfective aspect as their first argument. Broken order is an added option made available by the language, utilized expression of aspect in Hungarian. The fact that other subordinate contexts do not allow broken order (cf. (15)) follows from the crucial difference that these what the purely temporal connective until really means, a connective that Hungarian for both the expression of emphasis and (together with amig) the expression of construction. We see, then, that the semantics of emphasis really plays no role in this action. Broken order is driven by the requirements of amíg and the

Endnotes

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preverb from its host verb, though standard Hungarian orthography would write 1I follow the practice of Harlig 1989 in using a center dot (·) to separate the

²When the preverb appears in postverbal order, it behaves as an independent complement and does not form a minimal constituent with the verb (cf. E. Kiss (1987: 65-66)).

postverbal order on the preverb. In particular, the preverb appears immediately before *nem* in 'emphatic' negation only. It is in this respect that (4b) differs from ³Comparing (4b) with (1b) it is evident that nem does not obligatorily induce

of the syntax of focus in Hungarian. For present purposes, any of these analyses could be rendered compatible, so I have no need to choose between them. (4c-e), for the latter constructions all force postverbal order on the preverb.

4See Farkas 1986, Horvath 1986, and E. Kiss 1987 for three different analyses

⁵Here I restrict myself to 'emphatic' negation in declaratives, though the same

point could be made in principle for imperatives.

6Note that if the preverb in (1b, 5b, 6b, 7a) occupies the focus position, as we are arguing, then nem cannot itself be in this position. For present purposes it is sufficient to assume that nem adjoins to the bare verb, in a proclitic-like fashion. The resulting structure would be $[nem [V^0]_{V^0}]$, which would still allow a preverbal focussed constituent.

where emphatic negation is bad: ⁷The contrast in (12) is not an isolated example. (i) exhibits another instance

i. a. Nem jelentkezem ki, NEG notify.I PV és ezáltal thereby jogilag *nem* költözöm y legally NEG move.I PV.

'I'm not giving notice and by so doing I'm not moving out legally' *Nem jelentkezem ki, és ezáltal jogilag ki *nem* költözöm.
'I'm not giving notice and by so doing I WON'T move out legally'

my intention legally not to move out becomes all the more opaque.

*This has an irrelevant echo-question reading. to move out at all. But then the causal relation between my not giving notice and Again, while the exact source of trouble is hard to pin down, a couple of considerations come to mind. (i) sets up a causal relation between not giving notice and not moving out legally, independent of anyone's intention. If the use of negation: in (ia) I'm moving out, but just not legally, whereas in (ib) I don't intend stated. The second consideration is that jogilag in (ib) is not within the scope of to not moving out legally, it is unclear how this intention fits into the causal relation emphasis in the second conjunct of (ib) invokes the speaker's intention with respect

here. The confusion can stem from the fact that amig has the morphological variant temporal amig 'while' there is another form mig in Hungarian which I do not treat Rácz (1971: 386) gives the following minimal pair: ⁹To allay any potential confusion, I point out that in addition to the purely The meaning of the other mig might be characterized as 'consequential until

a. Addig dolgozott, (a)míg meg nem izzadt. that till worked he while PV NEG sweat (PST).he 'He worked until he sweat' [sweating not a necessary consequence of working)

Addig dolgozott, míg meg izzadt. that.till worked.he until PV-sweat(PST).he 'He worked until he sweat' [sweating a necessary consequence of working]

temporal connective amig, consequential mig being another connective with other Because of the consequential relation it expresses, mig cannot translate English until in the latter's purely temporal sense. In this paper I restrict myself to the purely between two eventualities, one which is not necessary to interpret amig in (ia) mig in (ib) is not a purely temporal connective, for it also expresses a causal relation

present theory predicts there to be a salient meaning difference between this sentence and (20b) which is unquestionably common and good. It is the contrast believe that it is fully grammatical, though rare and difficult to contextualize. The between the two which I emphasize. ¹⁰Some speakers reject this sentence as ungrammatical, while others do not. I

¹¹Further evidence for the proposed distinction comes from the following

i. a. ?Olvastam, amíg János le nem feküdt kilenc órakor. read(PST).I while John PV NEG lay nine hour.at

*Olvastam, *Olvastam, amíg János nem fekü read(PST).I while John NEG lay 'I read until John lay down to sleep at 9 o'clock'
Olvastam, amíg János nem feküdt le kilenc
ad(PST) I while John NEG lay PV nine 'I read while John was not lying down to sleep at 9 o'clock' kilenc órakor.

> a temporal point precisely because the amíg-clause expresses an endpoint in this The broken order in (ia) is in principle compatible with the adverbial specification of

denotes an event, then its temporal endpoint is matched with the temporal endpoint of the eventuality denoted in the subordinate clause, e.g., I read the newspaper while Maryslept (my reading ends with Mary's awakening). This requirement does not appear to hold so strongly if e2 is a state or process: imagine that I am a Communist and compare I lived in Hungary while the Communists were in power with I lived in Hungary when the Communists were in power. Only the former utterance strongly implicates that I left Hungary after the Communists lost their case, whereas the interval reading in (ib) is incompatible with such an adverbial.

12In (27) I follow the essence of de Swart's (1990) proposal for a dyadic implicature given in (27g). power, though I think one could defeat this implicature explicitly: I lived in Hungary while the Communists were in power, and yet I didn't even leave after they lost their power. Defeating the implicature with the newspaper example is not in imperfective aspect, and (iii) when does not carry the conventional implicature in does, however, argue for an interpretation of when which differs in three crucial respects from the one I have provided for while: (i) when does not necessarily so teasible, hence the restriction to events (in the narrow sense) in the conventional neither Hungarian nor English) requires an event predicate in its first argument to be analysis of temporal connectives, though she herself does not analyze while. She identify the two references times r1 and r2 (John arrived when I left), (ii) when (in (27g). The latter is necessary to ensure that if the proposition in the main clause

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DERIVING NEGATIVE AND FACTIVE ISLANDS WITHOUT THE ECP* Johan Rooryck

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Introduction.

of subjects and adjuncts strongly contrasts with Wh- movement of internal arguments out of complement CPs of factive verbs (Rouveret 1980, Kayne 1981, exclusively linked to general principles of the grammar, but seem to be in some sense lexically determined. It has been pointed out repeatedly that Wh-movement Zubizaretta 1982, Adams 1985): Several restrictions on successive cyclic Wh- movement appear not to be

- * Who do you regret/ understand! forget likes this article?
- * How did he deeply enjoy! regret that his son had fixed the car?
- ? Which article did you regret! understand that I had selected?

(2)_a. This type of restriction is not displayed by nonfactive verbs such as believe:

- Who do you believe likes this book? (=Adams 1985:(4a)) How do you believe that I selected the article?
- Which article did you believe that I selected?

negation (Ross 1984, Travis 1984, Kayne 1986:fn.17, Rizzi 1990a:15): However, Wh- movement of the adjunct in (2b) is blocked by an intervening

- (?) Who don't you believe would like this book?
- * How don't you believe that I selected the article?

(?) Which article didn't you believe that I selected?

asymmetry is usually linked to the ECP: traces of subjects and adjuncts must be antecedent governed by intermediate traces, whereas traces of object arguments are The negative islands in (3) present a case of adjunct vs. argument asymmetry and the factive islands in (1) present cases of a subject/ adjunct vs. object asymmetry with respect to Wh-movement. In the framework of Chomsky (1986), this type of islands. not suffice in light of the difference between the asymmetries in both types of the successive cyclically moved Wh-phrase. Obviously, this type of solution will intermediate trace in Spec, CP position in (1ab-3b) is not antecedent governed by properly governed by the selecting verb. At first sight, these data suggest that the

effects. Melis (1988) observes that the asymmetry noted in (3) does not extend to counterexamples where negation does not seem to intervene to create opacity antecedent-govern its intermediate trace in the embedded Spec, CP position, thus violating the ECP. The problem with this analysis is that there are a set of With respect to negative islands in (3b), Rizzi (1990a) argues that the negation in the matrix clause is a potential antecedent governor for the trace in the embedded Spec, CP. The Wh-phrase in the higher Spec, CP will be unable to identical constructions with volitional verbs in French such as vouloir.

- (4) a. Qui ne veux désires-tu pas qui vienne encore chez nous? Who don't you want (that) still comes to see us?'
- Voilà les moments auxquels je ne désire pas qu'on me dérange 'This is the way in which I don't want that he fixes the car' Voilà la façon de laquelle je ne désire pas qu'il répare la voiture
- These are the times during which I don't want that anyone bothers me'

the predictions of relativized minimality, the matrix negation does not seem to Recall want type verbs are not ECM verbs in French as they are in English. Against function as a potential governor for the trace in the embedded Spec, CP in (4) and