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LF Affix Raising in Japanese Shigeru Miyagawa, Ohio State University Kitagawa (1986) gives evidence in Japanese for LF affix raising (Pesetsky (1985)) on the basis of the adverbial interpretation of a nonadverbial morpheme. His argument, though convincing, is based on rather obscure, idiom-like expressions. In this squib I will give evidence for LF affix raising using more common expressions involving wh-question formation.

- 1. A question, either yes-no or wh, may be formed either simply by a rising intonation or by attaching the question particles no and/or ka:
 - (1) Dare ga kuru? who Nom come 'Who will come?'
 - (2) Dare ga kuru no? (same as (1))
 - (3) Hanako ga kuru *no ka?* 'Will Hanako come?'

The verbs in these examples are in the *informal* form. Our point of interest is (3), which has the question particle ka. If we turn (3), which is a yes-no question, into a wh-question, it becomes unacceptable with or without no:

(4) *Dare ga kuru (no) ka? 'Who will come?'

The only way to ask (4) and still maintain ka is by adding the politeness affix -masu to the verb.

(5) Dare ga ki-masu ka? who Nom come-Polite Q

I will claim that at LF the politeness affix -masu is raised to a position that governs the Comp containing ka.

- 2. (4), which is unacceptable, is a matrix clause question. In a subordinate clause the same question form is fully grammatical:
 - (6) Boku wa [s/dare ga kuru ka] sitteiru. I Top who Nom come Q know 'I know who will come.'

The verb *sitteiru* 'know' optionally subcategorizes for an indirect question; in (6) the verb therefore governs the lower Comp. Following Huang (1982), Lasnik and Saito (1984), and Hoji (1985), I assume that the wh-phrase moves to Comp at LF; following the latter two, I also assume that the question particle ka is in Comp. The pertinent portion of the LF representation of (6) is therefore as follows:

This squib has benefited a great deal from comments by anonymous reviewers for LI. This work was supported by a postdoctoral grant from the Social Science Research Council.

(7) [...[s'[s t_i kuru] dare_i ka] sitteiru] come who Q know

Here, the matrix verb's subcategorization allows it to govern the Comp with ka.¹ Based on this, I propose the following condition:

- (8) At LF, if a wh-phrase occurs in the same Comp as ka, the Comp must be governed.
- 3. I will give three arguments to show that ka in wh-questions must be governed. The first argument concerns nonbridge verbs (Erteschik (1973)). Stowell (1981) argues that English nonbridge verbs such as whisper and murmur do not govern the lower Comp. Fukui (1985) argues that the same is true in Japanese. His argument is based on the observation that LF extraction of an embedded adjunct wh-phrase leads to awkwardness (the judgments are his):
 - (9) ??Bill wa [s' John ga naze kubi ni natta Bill Top John Nom why was fired tte] sasayaita/tubuyaita no? Comp whispered/murmured Q 'Why did Bill whisper/murmur that John was fired t?'
 - (10) Bill wa [s' John ga naze kubi ni natta tte] itta no? said Q 'Why did Bill say that John was fired t?'

In both questions the adjunct wh-phrase naze 'why' takes wide scope at LF by Comp-to-Comp movement (Lasnik and Saito (1984)). The awkwardness in (9) arises because the lower Comp with the intermediate trace is not lexically governed (see Fukui (1985) for details); (10) is fully acceptable because yuu 'say' governs the lower Comp.

Note that the following ka examples parallel (9) and (10):

- (11) ?*Bill wa [s· dare ga hannin da ka]
 Bill Top who Nom culprit is Q
 donatta/sasayaita/tubuyaita.
 shouted/whispered/murmured
 'Bill shouted/whispered/murmured who is the culprit.'
- (12) Bill wa [s' dare ga hannin da ka] itta. said 'Bill said who is the culprit.'

¹ See Kayne (1980), among others, for the proposal that verbs can govern the lower Comp across the S' boundary.

This distinction between nonbridge verbs and yuu 'say' can be accounted for if it is assumed that ka must be governed.²

The second argument, also based on Stowell (1981) and Fukui (1985), concerns government by the head of a complex NP. Stowell argues that an empty complementizer is possible only if the verb governs the complement S':

- (13) John said that/e the earth is round.
- (14) the claim that/*e the earth is round

Fukui argues that in Japanese the complementizer to yuu can alternate with an empty complementizer if it is governed by the head of the complex NP. The abstract nominal koto 'fact' is such a nominal, whereas syutyoo 'claim' fails to govern the lower Comp:

- (15) [NP[S'[S Taroo ga sore o Taro Nom that Acc te ni ireta] to yuu/e] koto] obtained Comp fact 'the fact that Taro obtained it'
- (16) [NP[S'[S Taroo ga sore o te ni ireta]

 Taro Nom that Acc obtained

 to yuu/*e syutyoo]

 Comp claim

 'the claim that Taro obtained it'

A parallel effect obtains with ka:

(17) [NP[S'[S] Syoorai nani ga okoru] ka
future what Nom happen Q
to yuu] koto] o musisita.
Comp fact Acc ignored
'He ignored what will happen in the future.'

² The reviewer who suggested this line of argument also gave the following counterexample (only the relevant portion is given):

(i) Omowazu [s: dono uma ga itii ni without thinking which horse Nom first natta ka] oogoe de sakende simatta. became Q loudly yelled out 'Without thinking, he yelled out loudly which horse finished first.'

Sakebu 'yell out' is a manner-of-speaking verb, similar to nonbridge verbs such as tubuyaku 'murmur'. Hence, (i) should be ill-formed. One possibility here is that sakebu, but not the other nonbridge verbs, governs the lower clause. If this is true, then sakebu should allow LF extraction of an embedded adjunct wh-phrase more readily than the others. This possibility is suggested by the following example. Though the judgment is decidedly delicate, the example seems to be better than (9):

(ii) ?Hahaoya wa hootei de [s' e naze kodomo o mother Top court in why child Acc korosita tte] sakenda no?
 killed Comp yelled out Q
 'Why did the mother yell out in court that she killed her child to?'

(18) *[NP[S'[S Syoorai nani ga okoru] ka to yuu] syutyoo] o musisita. claim

'He ignored the claim about what will happen in the future.'

Koto 'fact' in (17) governs ka, whereas syutyoo 'claim' in (18) does not.³

Third, adding a sentential particle such as *naa* 'I wonder' to the unacceptable (4) turns it into a natural sentence:

(19) Dare ga kuru ka naa? who Nom come Q 'I wonder who will come.'

This sentential particle, which has scope over the whole sentence, can be viewed as governing ka.

4. We have seen evidence that ka in wh-questions must be governed. Based on this, the grammatical (5), which has the politeness affix on the verb, is accounted for if the affix -masu is raised at LF to the position that governs the Comp containing ka:

(20) [s'[s'[s t_i ki-t_j] dare_i ka]-masu_j]
come who Q Polite
'Who will come?'

It is important to specify that only the politeness affix, and not the entire verb, is raised. Otherwise, no distinction can be predicted between this and the unacceptable informal form in (4).⁴

Incidentally, this raising analysis is plausible independent of question formation. The politeness affix (-masu/desu) has the "performative" function of marking the entire sentence for politeness (Harada (1976)). It is therefore reasonable to hypothesize that the affix has scope over its sentence at some level of representation. My proposal is that this takes place at LF.

- 5. The discussion has been limited so far to ka in wh-questions. The same question particle occurs in yes-no questions. Ka in the latter also appears to require licensing, though in a slightly different fashion:
 - (21) a. ?*Hanako ga kuru ka?

 Hanako Nom come Q

 'Will Hanako come?'

³ As Fukui points out, although lexical government "seems to be a necessary condition for empty complementizers, it is obviously not a sufficient condition." Some other factors are semantic; Teramura (1980) discusses this in detail.

⁴ As one reviewer notes, the raising of the politeness affix is an instance of non-string-vacuous LF affix raising. In other words, the raising cannot be accomplished simply by rebracketing.

b. Hanako ga kuru no ka?

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c. Hanako ga kuru no?

Q

- (22) a. *Dare ga kuru ka? 'Who will come?'
 - b. *Dare ga kuru no ka?
 - c. Dare ga kuru no?

As shown in (21a), ka by itself is awkward even in yes-no questions. (21b) demonstrates that ka is fine if it occurs with the other question particle no (shown alone in (21c)). The occurrence of no does not improve the wh-question with ka, as shown in (22b).⁵ Assuming that the question particle no occurs in Comp, as well as ka, the following constraint appears to hold:

(23) Ka in yes-no questions must be governed.

I assume that in (21b) ka is governed by the other question particle, no, which occurs in the same Comp. This differs from ka in wh-questions:

(24) A Comp containing *ka* and a *wh*-phrase must be governed.

In other words, in wh-questions the Comp itself containing ka and a wh-phrase must be governed, as shown by the insufficiency of Comp-internal government in (22b). But in yes-no questions it is simply ka that must be governed; this required government can obtain internal to Comp as in (21b).

Evidence that (24) applies at LF is seen in the following example, in which a wh-phrase in the complement clause takes wide scope at LF:

(25) [s' dare ga kita to] ii-masita/?*itta who Nom came Comp say-Polite-Past/said (no) ka?

Q
'Who did you say came?'

Dare 'who' is raised at LF to the matrix Comp containing ka. As shown, only the matrix verb with the politeness affix is

acceptable.5. Finally, the analysis presented here can account for the fact that the politeness affix cannot occur in complement clauses

- (26) Boku wa [s dare ga kuru/*ki-masu I Top who Nom come/come-Polite ka] sittei-masu.

 O know-Polite
 - 'I know who will come.'

such as the one in (26):

⁵ A reviewer pointed out the distinction between (21b) and (22b).

This is a grammatical restriction; it is not stylistic. By the proposed hypothesis, if the polite verb ki-masu occurs, the politeness affix -masu is raised to the position that governs ka:

(27) Boku wa [s²[s²[s t_i ki-t_j]]
I Top come
dare_i ka] -masu_j] sittei-masu.
who Q Polite know-Polite

Sitteiru 'know', which (optionally) subcategorizes for an indirect question, must govern the lower Comp with wh to fulfill this subcategorization. However, affix raising inserts an S' between the verb and the S' that directly dominates the lower Comp, making the lower Comp inaccessible to the verb. This violates the Projection Principle (Chomsky (1981)) because the subcategorized element becomes inaccessible to the verb at LF.

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