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LF AFFIX RAISING IN JAPANESE  
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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 [<sub>S</sub> 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:

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This distinction between nonbridge verbs and *yu* 'say' can be accounted for if it is assumed that *ka* must be governed.<sup>2</sup>

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.'

<sup>2</sup> 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  
           t?'

- (18) \*<sub>[NP[S[S Syoorai nani ga okoru] ka to  
yuu] syutyoo] o musisita.</sub>  
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.<sup>3</sup>

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) [<sub>S</sub> [<sub>S</sub> [<sub>S</sub> t<sub>i</sub> ki-t<sub>j</sub> ] dare<sub>i</sub> ka ] -masu<sub>j</sub>]  
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).<sup>4</sup>

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?'

<sup>3</sup> 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.

<sup>4</sup> 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.



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 [s' [s' [s t<sub>i</sub> ki-t<sub>j</sub>]  
 I Top come  
 dare<sub>i</sub> ka] -masu<sub>j</sub>] 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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