

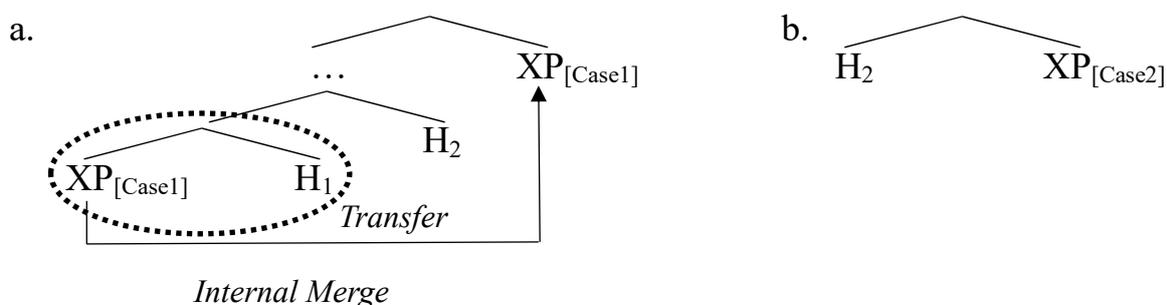
Multiple Case Valuation and Its Implications

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3. Multiple Case Valuation via Merge: Japanese

3.1 Introduction

(1) The system of multiple Case valuation via Merge is schematically illustrated below.



(2) (i) XP is merged with H₁ (a lexical head) and it undergoes IM into the edge of H₂ (a phase head) at Transfer. (When the complement of H₂ undergoes Transfer, the lower XP receives a Case value.)

(ii) The higher XP becomes a sister of H₂ (a phase head) when its “complement(s)” undergo(es) Transfer. (Since the higher XP is still in narrow syntax, it remains active and retains the ability to receive another Case value.)

(iii) The higher XP receives another Case value (when it undergoes Transfer).

(3) I will argue that Japanese instantiates all the three possibilities shown below.

- (i) **Case₂+Case₁**: The *last* Case value received is realized morphologically.
- (ii) **Case₂+Case₁**: The *first* Case value received is realized morphologically.
- (iii) **Case₂+Case₁**: All the Case values received are realized morphologically.

3.2 Japanese *Tough*-Constructions

3.2.1 Inoue (1978, 2004)

(4) Inoue (1978, 2004) classifies Japanese *Tough*-Constructions (TCs) into four types.

a. Gakusei-ni-wa kono zisyo- ga tukai-yasu-i. (Type I)
 students for-TOP this dictionary-NOM use-easy-PRES
 ‘This dictionary is easy for students to use.’

b. Watasi-wa kega-o site-ite, aruki-niku-i. (Type II)
 I TOP hurt-ACC get walk-hard-PRES

‘I hurt my leg, and it is hard for me to walk.’

c. Nuno-ga atukute, hari-ga toori-niku-i. (Type III)
cloth-NOM thick needle-NOM pierce-hard-PRES
(Lit.) *‘The cloth is thick, and the needle is hard to pierce it through.’

d. Eriito-wa tuyoi zasetukan- o aziwai-yasu-i. (Type IV)
elites-TOP strong sense of frustration-ACC feel tend to-PRES
‘Members of the elite tend to have a strong sense of frustration.’
(Inoue 2004:76-86)

➤ **Type I**: The embedded verb is [+self-controllable].
Expresses the speaker’s judgment.

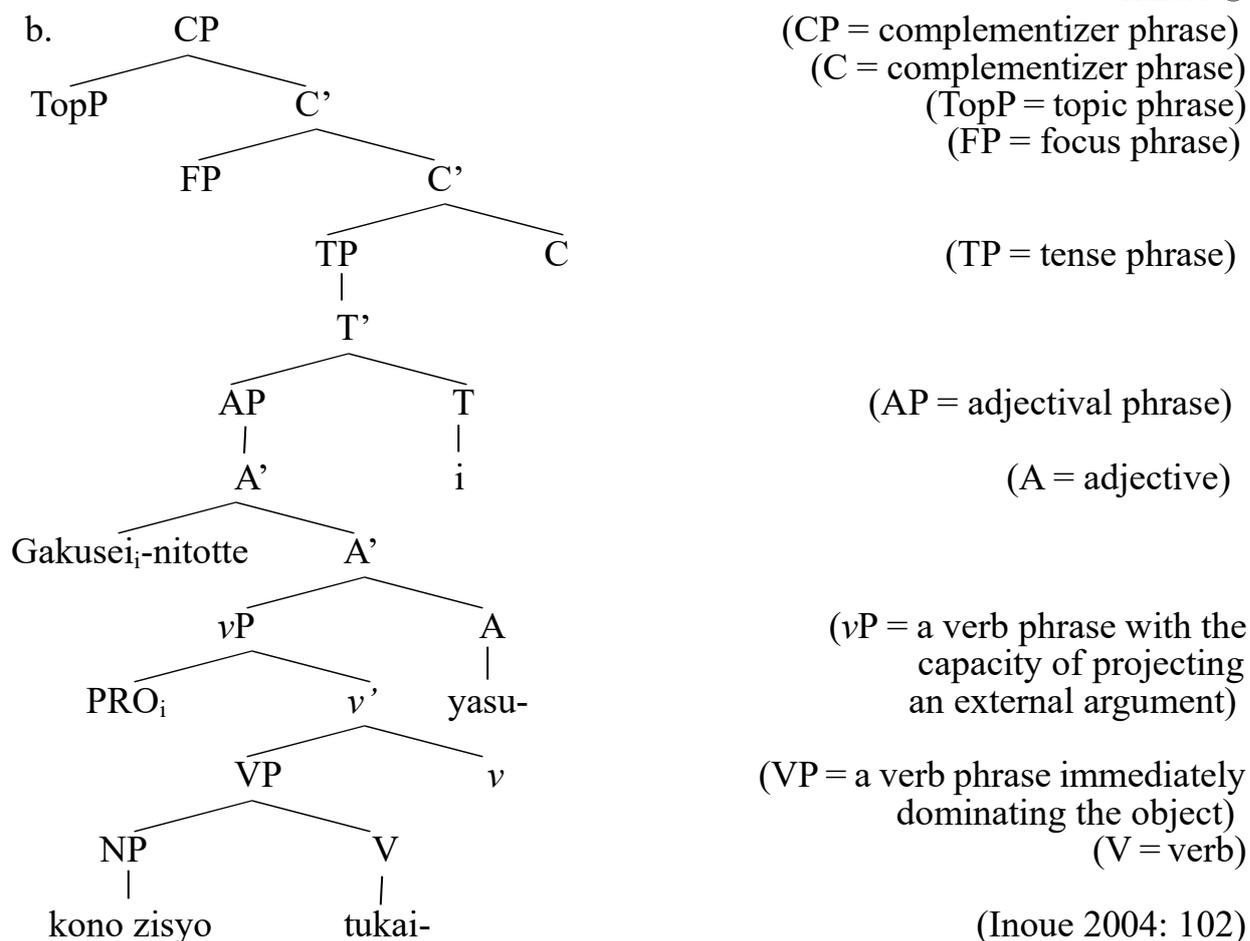
Type II: The embedded verb is [+self-controllable].
Expresses the subject’s judgment or feeling.

Type III: The embedded verb is [-self-controllable].
Expresses the speaker’s judgment.

Type IV: The embedded verb is [-self-controllable].
Expresses the speaker’s judgment.
Carries the meaning of ‘tend to’.

(5) Let me focus on Type I and Type IV. As for Type I, Inoue (2004) proposes the following syntactic structure.

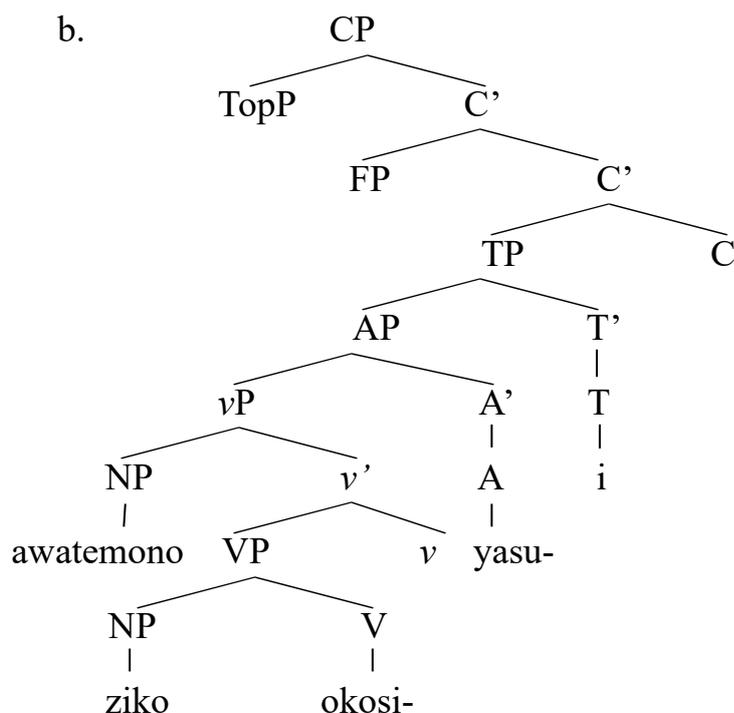
a. Gakusei-nitotte-wa kono zisyo-ga tukai-yasu-i.
pupil for-TOP this dictionary-NOM use-easy-PRES
‘For pupils, this dictionary is easy to use.’



- (6) (i) The embedded verb *tukai-* ‘use’ is first raised to *v* and then raised and incorporated with the adjective *yasu-* ‘easy’. The result is the complex adjective *tukai-yasu-* ‘use-easy’.
 (ii) The complex adjective *tukai-yasu-* ‘use-easy’, being a stative predicate, assigns nominative Case to its object *kono zisyo* ‘this dictionary’ (cf. Kuno 1973).
 (iii) The *nitotte* phrase is raised to the topic position and marked with *wa*.

(7) As for Type IV, Inoue (2004) proposes the following syntactic structure.

- a. Awatemono-wa ziko-o okosi-yasu-i.
 hasty people-TOP accident-ACC cause tend to-PRES
 ‘Hasty people tend to cause accidents.’



(Inoue 2004: 106)

- (8) (i) The complement verb is raised and incorporated with the *tough* morpheme *in morphology*.) That is, verb-raising does not take place in syntax.
(ii) Since verb-raising does not take place in syntax, the embedded verb assigns accusative Case to its object.

(9) **Two problems:**

(i) Under Inoue's (2004) analysis, the object in Type I can never be assigned accusative Case since the embedded verb is *first* raised to *v* and then raised and incorporated with the adjective *yasu-* 'easy'.

However, the object in Type I can be assigned accusative Case.

a. Kono pen-ga kodomo-nitotte **kyappu-o** hazusi-yasu-i.
this pen-NOM child-for cap-ACC pull off-easy-PRES
'It is this pen whose cap is easy for children to pull off.'

b. Taro-ga (Hanako-nitotte) **okane-o** watasi-niku-i.
Taro-NOM Hanako-for money-ACC hand-difficult-PRES
(Lit.) 'Taro is difficult (for Hanako) to hand some money.'

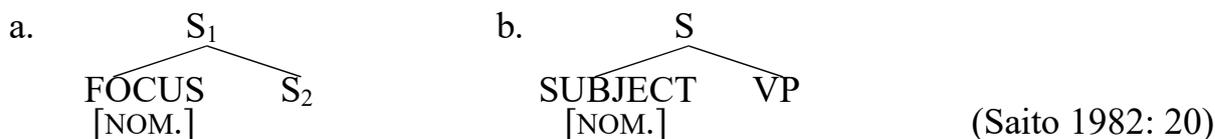
(ii) Under Inoue's (2004) analysis, the object in Type IV can never be assigned nominative Case since the embedded verb does not raise in syntax.

However, the object in Type IV can be assigned nominative Case.¹

- a. ?Awatemono-wa ziko-ga okosi-yasu-i.
hasty people-TOP accident-NOM cause tend to-PRES
'Hasty people tend to cause accidents.'
- b. Awatemono-wa kooitta ziko-ga okosi-yasu-i.
hasty people-TOP this kind of accident-NOM cause tend to-PRES
'Hasty people tend to cause this kind of accident.'

3.2.2 Saito (1982)

(10) Saito (1982) argues that “focus” is freely base-generated with nominative Case in Japanese and that the nominative element in Type I serves as the “focus” element based on the following configurations.²



(11) Saito (1982) observes that the nominative element in Type I does not “scramble” with the object of the sentence.

- a. Suzuki_i-ga Tanaka_j-nitotte [PRO_j [e_i] wairo-o tukam-ase-yasu-i]
Suzuki-NOM Tanaka-for bribe-ACC take-cause-easy-PRES
'For Tanaka, Suzuki is easy to bribe.'
- b. Tanaka-nitotte Suzuki-ga wairo-o tukam-ase-yasu-i
- c. ??Suzuki-ga wairo-o Tanaka-nitotte tukam-ase-yasu-i
- d. ?*Tanaka-nitotte wairo-o Suzuki-ga tukam-ase-yasu-i
- e. ?*Wairo-o Tanaka-nitotte Suzuki-ga tukam-ase-yasu-i
- f. ?*Wairo-o Suzuki-ga Tanaka-nitotte tukam-ase-yasu-i (Saito 1982: 37)

(12) The following examples show that the “focus” element *John* cannot be scrambled with the arguments of S₂. In this respect, the nominative element in Type I behaves like the “focus” element.

¹ Although Inoue (1976) regards examples like (9iia) as unacceptable, a slight lexical adjustment improves the acceptability as shown in (9iib).

² Saito (1982), somewhat tentatively, calls elements such as *nihon-ga* in (i) ‘focus with nominative Case’ and does not give any clear definition of it.

(i) Nihon-ga dansei-ga tanmei desu.
Japan-NOM male-NOM short-life-span copula
'It is in Japan that men have a short life span.'

(Saito 1982:5; see also Kuno 1973:67)

a. [_{S1} John-ga [_{S2} ootoo-ga buturi-o benkyosite-iru]]
 John-NOM brother-NOM physics-ACC studying
 ‘It is John whose brother is studying physics.’

b. ?John-ga buturi-o ootoo-ga benkyosite-iru

c. ?*Buturi-o John-ga ootoo-ga benkyosite-iru

d. *Ootoo-ga John-ga buturi-o benkyosite-iru

(13) Saito (1982) insightfully observes that there is a marked contrast between Type I and Type III=IV with respect to the possibility of scrambling.³

Type III=IV: Scrambling is quite free:

a. Eriito-ga soosita zasetukan-o aziwai-yasu-i.
 elite-NOM that kind of frustration-ACC feel-easy-PRES
 ‘Elites easily feel that kind of frustration.’

b. ??Soosita zasetukan-o eriito-ga aziwai-yasu-i.⁴ (Saito 1982: 37)

(14) Saito (1982) concludes from this that the nominative constituent in Type III=IV is not the “focus” element but the subject of S (i.e., (10b)) and conjectures that at least Type III=IV does not require the “focus” element.

(15) Saito (1982) further argues that in Type I the “focus” element is *obligatory*, as the unacceptability of (15b) indicates.

a. Kono hon-ga_i John_j-nitotte [PRO_j [e_i] yomi-yasu-i].
 this book-NOM John-for read-easy-PRES
 ‘This book is easy for John to read.’

b. *John_j-nitotte [PRO_j kono hon-o yomi-yasu-i].
 -ACC (Saito 1982: 43)

(16) Saito (1982) speculates that when the complement predicate is [+self-controllable], the TC requires the “focus” constituent with nominative Case and that it is, for

³ Saito (1982) argues that it is unnecessary to distinguish between Type III and Type IV because the relevant distinction is pragmatic.

⁴ The judgment is Saito’s (1982). However, to my ear, (13b) is perfectly acceptable.

some reason, interpreted to be a “property statement” about the required element.⁵

(17) **Saito’s (1982) observations:**

Type I: The “focus” element with nominative Case is obligatory (for some reason).

Type III=IV: The “focus” element with nominative Case is not obligatory.

3.2.3 External Arguments and Accusative Case

(18) I would like to show that the embedded transitive verb in Japanese TCs projects an external argument and assigns accusative Case.

(19) Since Kuno (1973), it has been widely known that the reflexive *zibun* ‘self’ is “subject-oriented.”⁶

Ken_i-ga Hanako_j-ni zibun_{i/*j}-no hon-o age-ta.
 Ken-NOM Hanako-DAT self-GEN book-ACC give-PAST
 (Lit.) ‘Ken gave Hanako self’s book.’

(20) Given the subject-orientation property of the reflexive *zibun* ‘self’, consider the following example (cf. Saito 1982, Montalbetti et al. 1982).

Ken_i-ga Hanako_j-nitotte zibun_{*i/j}-no himitu-o hanasi-niku-i.
 Ken-NOM Hanako-for self-GEN secret-ACC talk to-difficult-PRES
 (Lit.) ‘Ken is difficult for Hanako to talk to about self’s secret.’

(21) The reflexive *zibun* ‘self’ refers to the complement of *nitotte* ‘for’ (i.e., *Hanako*).⁷ That is, the complement of *nitotte* qualifies as a “subject” in the relevant sense. In

⁵ Saito’s (1982) explanation for the “property reading” goes as follows. Consider (i) and (ii).

(i) John-ga musuko-ga gakusei-desu.
 John-NOM son-NOM student-copula
 ‘John is such that this son is a student.’

(ii) ?*John-ga musuko-ga odoroi-ta.
 John-NOM son-NOM surprise-PAST
 ‘John is such that his son was surprised.’

(Saito 1982: 9)

When the “focus” element (i.e., the first nominative-marked phrase) appears in a sentence, it is usually the case that some kind of “property reading” is imposed on it. Saito (1982) states that what constitutes a “property reading” about John is any sentence that can be a reply to a request for information about John and that when someone says that he wants to know about John, we may tell him that John’s son is a student, but we would normally not say that John’s son was surprised yesterday.

⁶ I tentatively assume that the relevant notion of “subject” is related to an external argument of *v* (cf. Saito 2009).

⁷ Toru Ishii reports that the reflexive *zibun* ‘self’ in this example can also refer to *Ken*. But the important point here is that *zibun* ‘self’ refers to the complement of *nitotte* ‘for’.

order to account for this, I assume, following Inoue (2004), that the complement of *nitotte* ‘for’, which belongs to the matrix sentence, obligatorily controls PRO in the embedded “SpecvP.”

- (22) I will further show that the external argument of the embedded transitive verb is always projected. Taguchi and Niinuma (2009) present three pieces of evidence.

(i) The reflexive *zibun* ‘self’ can properly be licensed by the missing subject of the embedded verb.

Zibun-no hon-ga yomi-yasu-i.
Self-GEN book-NOM read-easy-PRES
(Lit.) ‘Self’s book is easy to read.’ (Taguchi and Niinuma 2009: 1878)

(ii) Subject honorification is applicable.

Kono hon-ga o-yomi-ni-nari-yasu-i.
this book-NOM SH-read-SH-easy-PRES
‘This book is easy to read.’ (Taguchi and Niinuma 2009: 1879)

(iii) The subject of the *nagara* ‘while’ clause is controlled by the “subject” of the matrix clause (cf. Ura 1999, 2000).

a. [PRO_i Tanosimi-nagara (demo)], kono hon-ga PRO_i yomi-yasu-i.
enjoying-while (even) this book NOM read-easy-PRES
(Lit.) ‘While enjoying, this book is easy to read.’
(slightly modified from Taguchi and Niinuma 2009: 1879)

b. [PRO_{k/*i} ongaku-o kiki-nagara], John_k-ga Mary_i-o damasi-ta.
PRO music-ACC listen.to-while John-NOM Mary-ACC cheat-PAST
‘While PRO_{k/*i} listening to music, John_k cheated Mary_i. (Ura 2000: 99)

- (23) We can conclude that the external argument (i.e., PRO) is projected even though it appears to be missing.

- (24) We have already seen that in Type I the embedded transitive verb can assign accusative Case.

a. Kono pen-ga kodomo-nitotte **kyappu-o** hazusi-yasu-i.
this pen-NOM child-for cap-ACC pull off-easy-PRES
‘It is this pen whose cap is easy for children to pull off.’

b. Taro-ga (Hanako-nitotte) **okane-o** watasi-niku-i.
 Taro-NOM Hanako-for money-ACC hand-difficult-PRES
 (Lit.) ‘Taro is difficult (for Hanako) to hand some money.’

(25) We can further show that the embedded transitive verb assigns an external argument and assigns accusative Case at the same time.

(i) The reflexive *zibun* ‘self’ + accusative Case

Kono-kaizyoo-(de)-ga Guurudo-nitotte **zibun-no sonata-o** ensousi-yasu-i.
 this concert hall-(at)-NOM Gould-for self-GEN sonata-ACC play-easy-PRES
 (Lit.) ‘It is at this concert hall that it is easy for Gould to play self’s sonatas.’

(ii) Subject honorification + accusative Case

Sono yuubinkyoku-kara-ga Yamada-sensei-nitotte **kozutumi-o**
 that post office-from-NOM Yamada-Professor-for package-ACC
o-okuri-ni-nari-yasu-i.
 SH-send-SH-easy-PRES
 (Lit.) ‘It is from that post office that it is easy for Prof. Yamada to send packages.’

(iii) The *nagara* ‘while’ clause + accusative Case

Me-o toji-**nagara** (demo), kono-hon-ga **peeji-o** mekuri-yasu-i.
 eye-ACC close-while (even) this book-NOM page-ACC flip through-PRES
 (Lit.) ‘While closing (your) eyes, this book is such that it is easy to flip through the pages (of it).’

3.2.4 *O-Ga/Ni-Ga* Stacking

(26) Now I show that accusative Case (-o) and nominative Case (-ga) can be stacked in Japanese TCs (see section 3.2.6).^{8,9}

Atarasii ryuukoo-**o-dake-ga** wakamono-nitotte oikake-yasu-i.
 new fashion-ACC-only-NOM young people-for follow-easy-PRES
 ‘Only the new fashion is easy for young people to follow.’

(27) I also show that dative Case (-ni) and nominative Case (-ga) can be stacked in

⁸ I would like to thank Ryoichiro Kobayashi for bringing this kind of example to my attention.

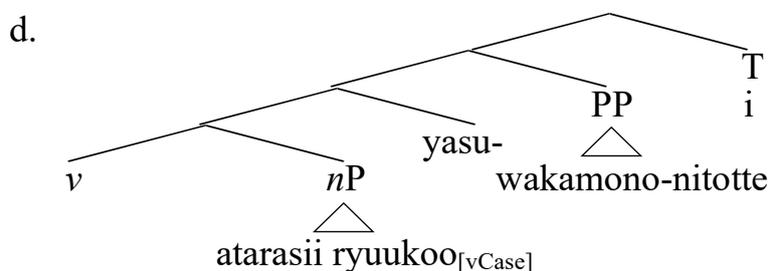
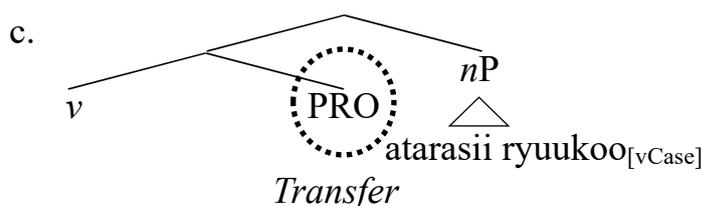
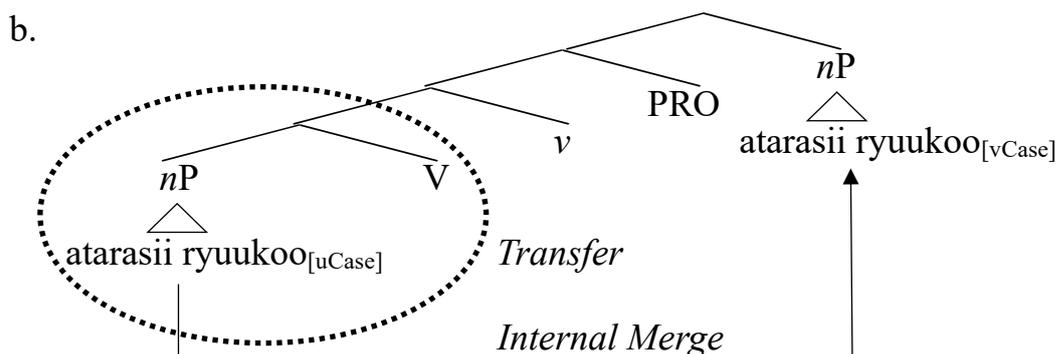
⁹ I will not enter into the detailed syntactic structure of nominal phrases like NP-Acc-*dake*-Nom, for want of better understanding of nominal-internal syntax. For some relevant discussion, see Aoyagi (2006).

Case Valuation Rules:

- When a nominal is merged with a lexical head, its case feature is valued as accusative.
- When a nominal is merged with a phase head (v or n), its case feature is valued as nominative or genitive.
- Otherwise, the case feature of a nominal is valued as dative. (Zushi 2016: 48)

(30) The derivation of Type I proceeds as follows.

- Atarasii ryuukoo-ga wakamono-nitotte oikake-yasu-i.
new fashion-NOM young people-for follow-easy-PRES
'Only the new fashion is easy for young people to follow.'



➤ **Derivation:**

(i) At Transfer of VP, the nP undergoes IM into the edge of v . (It gets valued as accusative.)

(ii) The “complement” PRO undergoes Transfer. ($\{\text{atarasii ryuukoo}, \{\text{PRO}, v\}\} \Rightarrow \{\text{atarasii ryuukoo}, \{v\}\} \Rightarrow \{\text{atarasii ryuukoo}, v\}$)

(iii) At the end of the derivation (i.e., when all the constituents undergo Transfer), *atarasii ryuukoo* ‘new fashion’ is *revalued* as nominative.

➤ **Labeling:**

(i) $\{V, \text{atarasii ryuukoo}\}$: label = **V**

(ii) $\{v, \{V, \text{atarasii ryuukoo}\}\}$: label = **v**

(iii) $\{\text{PRO}, \{v, \{V, \text{atarasii ryuukoo}\}\}\}$: label = **v** (At Transfer of VP, *atarasii ryuukoo* ‘new fashion’ undergoes IM into the edge of *v*. Transfer reduces the set $\{\text{atarasii ryuukoo}, \{\text{PRO}, \{v, \{V, t_{\text{atarasii ryuukoo}}\}\}\}\}$ into the set $\{\text{atarasii ryuukoo}, \{\text{PRO}, \{v\}\}\}$. If a singleton set is equivalent to its member, the set $\{\text{atarasii ryuukoo}, \{\text{PRO}, \{v\}\}\}$ will be regarded as the set $\{\text{atarasii ryuukoo}, \{\text{PRO}, v\}\}$. Thus, the label of the set $\{\text{PRO}, v\}$ will be determined to *v*.)

(iv) $\{\text{atarasii ryuukoo}, v\}$: label = **v** ($\{\text{atarasii ryuukoo}, \{\text{PRO}, v\}\} \Rightarrow \{\text{atarasii ryuukoo}, \{v\}\} \Rightarrow \{\text{atarasii ryuukoo}, v\}$)

(v) $\{\text{yasu-}, \{\text{atarasii ryuukoo}, v\}\}$: label = **A**

(vi) $\{\text{wakamono-nitotte}, \{\text{yasu-}, \{\text{atarasii ryuukoo}, v\}\}\}$: label = **A** (Adjuncts are invisible to LA) (cf. Hornstein 2009, Oseki 2015)

(vii) $\{T, \{\text{wakamono-nitotte}, \{\text{yasu-}, \{\text{atarasii ryuukoo}, v\}\}\}\}$: label = **T**

(31) The *nP* receives two Case values in the course of the derivation. The question is which to choose. But Saito (1982) observes:

Type I: “Focus with nominative Case” is obligatory (cf. Saito 1982).

➤ Thus, if nominative Case is realized morphologically, the result is fine.

a. Atarasii ryuukoo-**ga** wakamono-nitotte oikake-yasu-i.
new fashion-NOM young people-for follow-easy-PRES
‘The new fashion is easy for young people to follow.’

b. *Atarasii ryuukoo-**o** wakamono-nitotte oikake-yasu-i.
new fashion-ACC young people-for follow-easy-PRES
‘The new fashion is easy for young people to follow.’

(32) Note that if the *nP* does not undergo IM into the edge of *v* (30b), it receives only accusative Case. Then, the result is unacceptable due to the lack of “focus with nominative Case,” just as in (31b).

(33) Since the *nP* receives two Case values, it is possible to realize both of them provided that they are not adjacent to each other.

- a. *Atarasii ryuukoo-**o-ga** wakamono-nitotte okikake-yasu-i.
 new fashion-ACC-NOM young people-for follow-easy-PRES
 ‘Only the new fashion is easy for young people to follow.’
- b. Atarasii ryuukoo-**o-dake-ga** wakamono-nitotte oikake-yasu-i.
 new fashion-ACC-only-NOM young people-for follow-easy-PRES
 ‘Only the new fashion is easy for young people to follow.’

➤ A focus particle like *dake* ‘only’ breaks the adjacency between the stacked Case values.

(34) Recall here that in Korean and Cuzco Quechua, stacked Case particles can appear adjacent to each other.

- a. Cheli-**hanthey-ka** ton-i isse.
 Cheli-DAT-NOM money-NOM have
 ‘Cheli has money.’ (Levin 2017: 448)

- b. Mariya Xwancha-**q-ta-ni** muna-n [t_i platanu ranti-mu-na-n-ta]
 Maria Juan-GEN-ACC-AF want-2 bananas buy-NML-3-ACC
 ‘Maria wants Juan to buy bananas.’ (Lefebvre and Muysken 1988: 144)

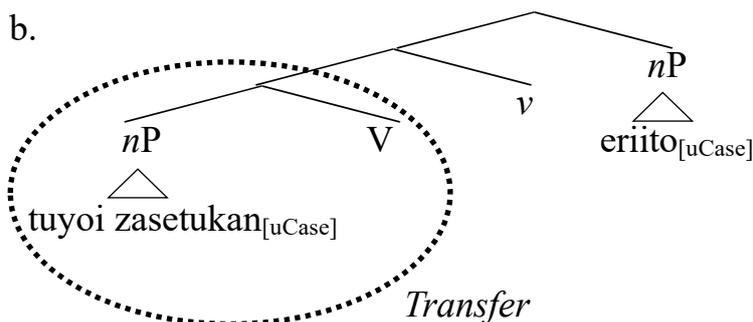
(35) Thus, I would like to hypothesize that Japanese (but not Korean and Cuzco Quechua) has the following constraint (cf. Hiraiwa 2014).

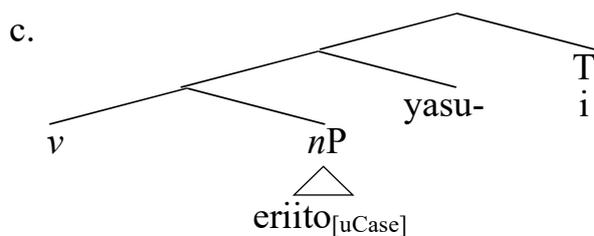
A Morphological Constraint in Japanese:

Case particles cannot appear adjacent to each other.

(36) The derivation of Type IV proceeds as follows.

- a. Eriito-ga tuyoi zasetukan- o aziwai-yasu-i.
 elites-NOM strong sense of frustration-ACC feel tend to-PRES
 ‘Members of the elite tend to have a strong sense of frustration.’





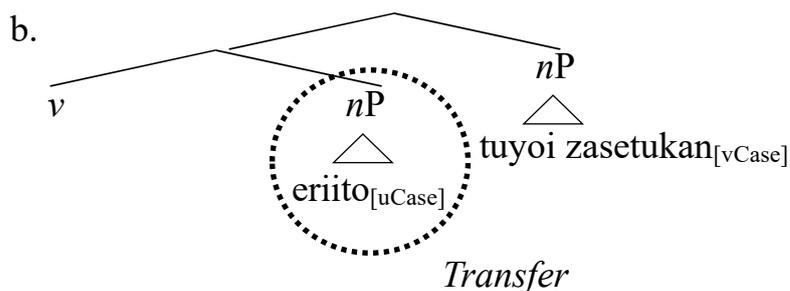
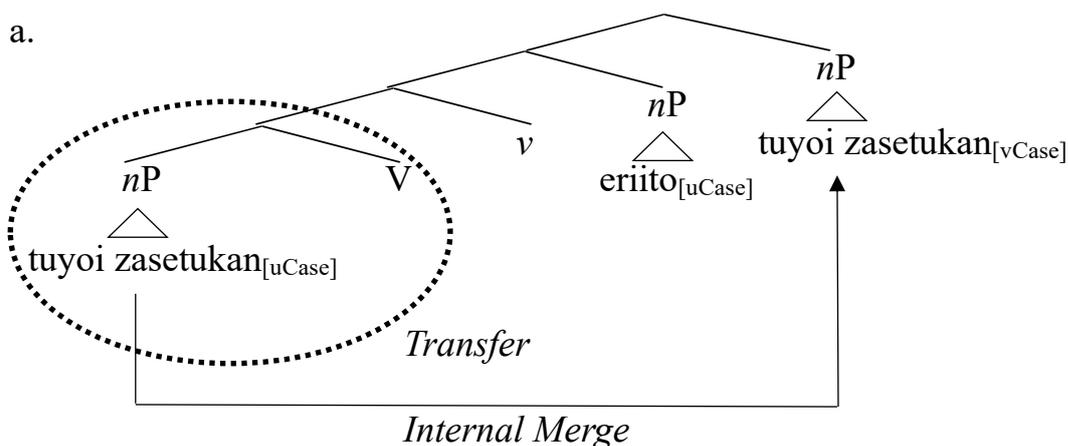
➤ **Derivation:**

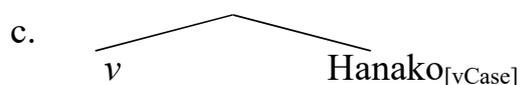
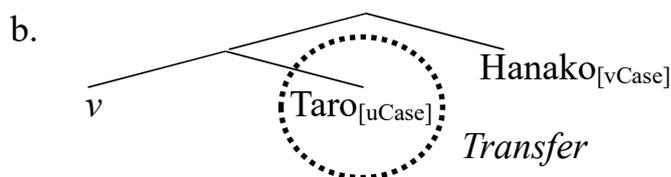
- (i) The object undergoes Transfer. (It gets valued as accusative.)
- (ii) The subject is valued as nominative (at the end of the derivation).

➤ **Labeling:**

- (i) $\{V, \text{tuyoi zasetukan}\}$: label = **V**
- (ii) $\{v, \{V, \text{tuyoi zasetukan}\}\}$: label = **v**
- (iii) $\{\text{eriito}, \{v, \{V, \text{tuyoi zasetukan}\}\}\}$: label = **v** ($\{\text{eriito}, \{v, \{V, \text{tuyoi zasetukan}\}\}\} \Rightarrow \{\text{eriito}, \{v\}\} \Rightarrow \{\text{eriito}, v\}$)
- (iv) $\{\text{yasu-}, \{\text{eriito}, v\}\}$: label = **A**
- (v) $\{T, \{\text{yasu-}, \{\text{eriito}, v\}\}\}$: label = **T**

(37) If *tuyoi zasetukan* ‘strong sense of frustration’ undergoes IM into the edge of *v* in (36b), the result is also fine. Consider the derivation.





➤ **Derivation:**

- (i) The object *Hanako* undergoes IM into the edge of *v* at Transfer of VP. (It gets valued as accusative.)
- (ii) The “complement” *Taro* undergoes Transfer. (It gets valued as nominative.)
- (iii) The object *Hanako* gets *revalued* as nominative (at the end of the overall derivation).

(43) The object receives two Case values. The question is which to choose. If the first Case value (i.e., accusative Case) is realized, the result is fine. But if the last Case value (i.e., nominative Case) is realized, the result is marginal.

a. Hanako_i-**o** Taro-ga *t_i* sikat-ta.
Hanako-ACC Taro-NOM scold-PAST
‘Taro scolded Hanako.’

b. ??Hanako-**ga** Taro-ga *t_i* sikat-ta.
Hanako-NOM Taro-NOM scold-PAST
‘It is Hanako who Taro scolded.’

(44) However, there are numerous examples where the objects can be marked with either accusative Case or nominative Case.

a. Kono tosyokan_i-**o** ookuno-gakusei-ga *t_i* riyou-su-ru.
this library-ACC many students-NOM use-do-PRES
‘Many students use this library.’

b. Kono tosyokan_i-**ga** ookuno-gakusei-ga *t_i* riyou-su-ru.
this library-NOM many-students-NOM use-do-PRES
‘Many students use this library.’

c. Sono-toori_i-**o** takusan-no torakku-ga *t_i* too-ru.
the road-ACC many-GEN truck-NOM drive-PRES

‘A lot of trucks are driven on the road.’

d. Sono-toori_i-**ga** takusan-no torakku-ga t_i too-ru.
the road-NOM many-GEN-truck-NON drive-PRES
‘A lot of trucks are driven on the road.’

e. Anoyouna taipu-no jyosei_i-**o** daremo-ga t_i konom-u.
that kind-GEN woman-ACC everyone-NOM like-PRES
‘Everyone likes that kind of woman.’

f. Anoyouna taipu-no jyosei_i-**ga** daremo-ga t_i konom-u.
that kind-GEN woman-NOM everyone-NOM like-PRES
‘Everyone likes that kind of woman.’

(45) Thus, it seems certain that the awkwardness of (43b) is not due to syntax but rather due to semantics.

(46) It has been reported in the literature that when an object is marked with nominative Case, it receives a “focus” interpretation (cf. Saito 1982, Takano 2003, Miyagawa 2010, Nambu et al. 2018). Furthermore, as Saito (1982) points out, when a “focus” element (i.e., focus with nominative Case) appears in a sentence, it is usually the case that some kind of “property reading” is imposed on it.

(47) Thus, the interpretation of (43b) will be something like “Hanako has an (intrinsic) property such that Taro hit her,” which is anomalous (cf. Saito 1982). In contrast, the interpretation of the acceptable sentence (44b), for instance, will be something like “This library has an (intrinsic) property such that many students use it,” which is felicitous.

To sum up:

(i) The object can undergo IM into the edge of v at Transfer of VP and receive two Case values.

(ii) If the first Case value (i.e., accusative Case) is realized, the result is fine (i.e., an instance of scrambling). In contrast, if the last Case value (i.e., nominative Case) is realized, it is interpreted to be “focused” and some kind of “property interpretation” is imposed on the resulting sentence (cf. Saito 1982).

3.3.2 *O-Ni* Stacking vs. *Ni-Ga* Stacking

(48) The proposed theory correctly predicts the presence of *ni-ga* (i.e., dative-nominative) stacking and the absence of *o-ni* (i.e., accusative-dative) stacking in

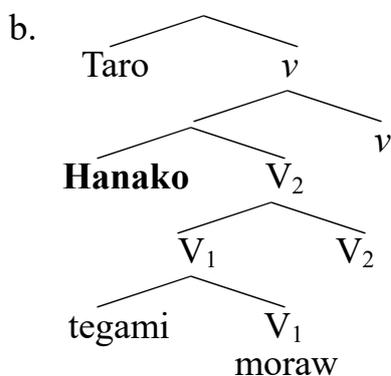
Japanese.¹⁴

Zushi's (2014, 2016) Case Valuation Rules:

- a. When a nominal is merged with a lexical head, its case feature is valued as accusative.
- b. When a nominal is merged with a phase head (v or n), its case feature is valued as nominative or genitive.
- c. Otherwise, the case feature of a nominal is valued as dative. (Zushi 2016: 48)

(49) Zushi (2014, 2016) argues that dative *ni* in Japanese is a default Case and assigned to a nominal phrase which lacks a Case value. That is, dative Case valuation applies *as a last resort*.

- a. Taro-ga Hanako-ni tegami-o morat-ta.
Taro-NOM Hanako-DAT letter-ACC receive-PAST
'Taro received a letter from Hanako.'



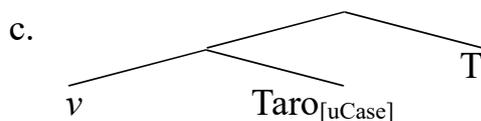
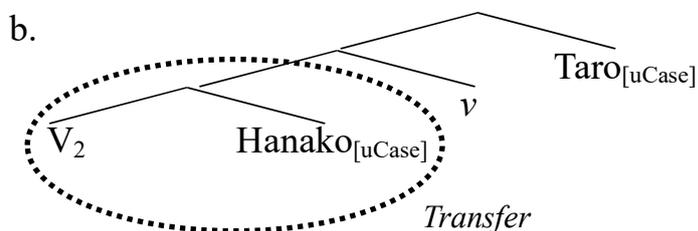
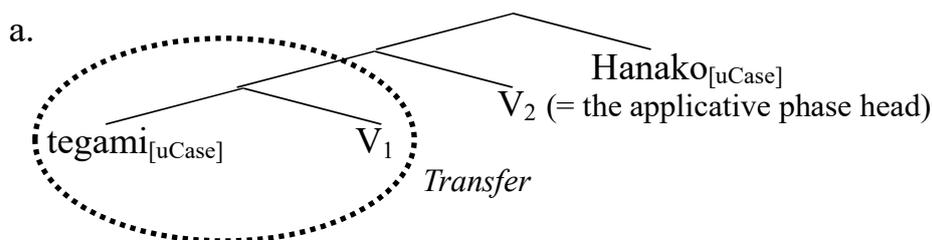
(Zushi 2014: 87)

(50) **Derivation:**

- (i) *Tegami* 'letter' is valued as accusative since it is merged with V.
- (ii) V_2 does not value accusative because it is an applicative head, not a lexical head. Therefore, (48c) is applied *as a last resort* and *Hanako* is valued as dative.
- (iii) *Taro* is valued as nominative since it is merged with v .

(51) When *Hanako* is merged into "Spec V_2 P," an XP-YP configuration is formed. Following McGinnis (2001), I assume that the applicative head in structures like (49b) is a phase head. If so, when *Hanako* is merged into the structure, the applicative head is created, and hence, the complement (i.e., V_1 P) undergoes Transfer. Thus, the label of the set $\{V_2, Hanako\}$ will be determined to V_2 .

¹⁴ I would like to thank Toru Ishii for helpful discussion.



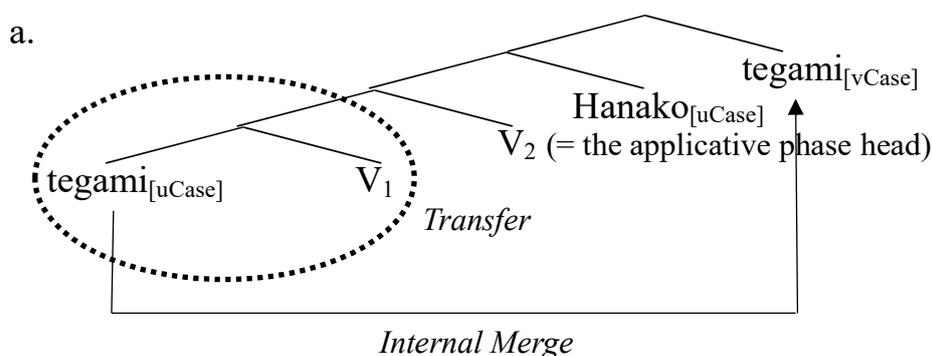
➤ **Derivation:**

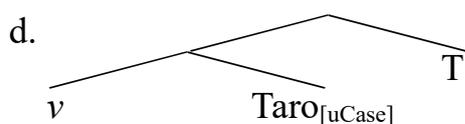
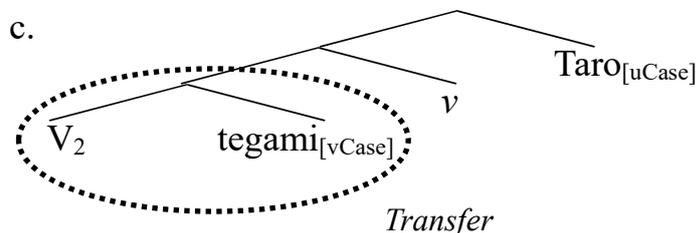
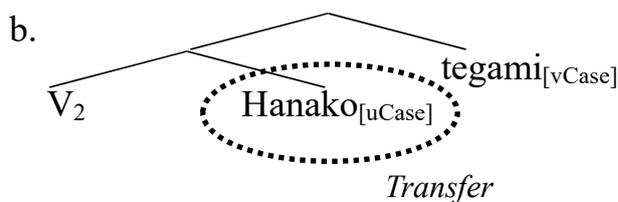
(i) Upon completion of the applicative phase, the complement (i.e., V_1P) undergoes Transfer. ($\{Hanako, \{V_2, \{V, tegami\}\}\} \Rightarrow \{Hanako, \{V_2\}\} \Rightarrow \{Hanako, V_2\}$)

(ii) Upon completion of the vP phase, the complement (i.e., $\{Hanako, V_2\}$) undergoes Transfer. The Case valuation rule (48c) is applied as a last resort and *Hanako* is valued as dative.

(iii) At the end of the overall derivation (i.e., at the point of TP), all the constituents undergo Transfer. *Taro* is valued as nominative.

(52) What if *tegami* ‘letter’ in (51a) undergoes IM into the edge of the applicative head?





➤ **Derivation:**

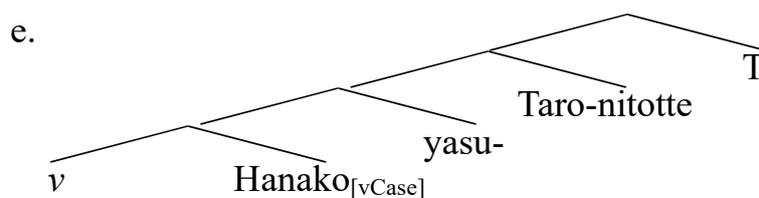
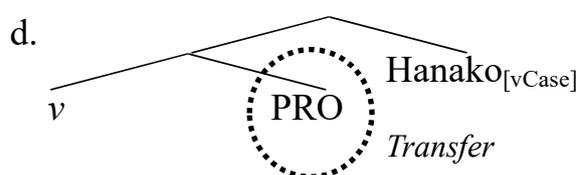
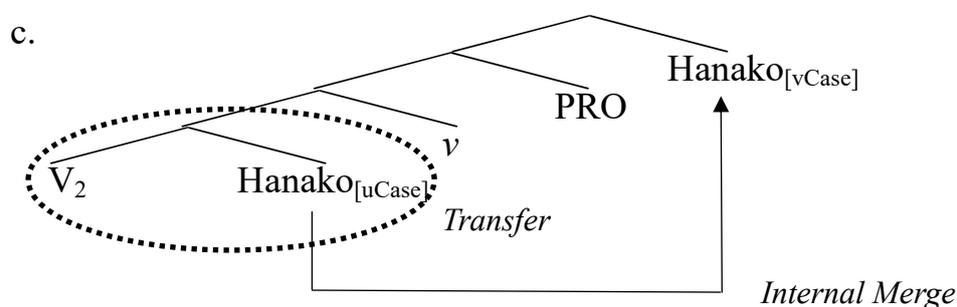
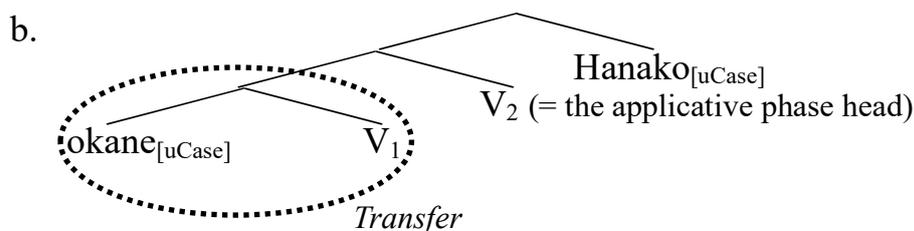
- (i) *Tegami* ‘letter’ undergoes IM into the edge of the applicative phase at Transfer.
- (ii) The “complement” *Hanako* undergoes Transfer. It is valued as dative as a last resort since neither (48a) nor (48b) can be applied.
- (iii) Upon completion of the vP phase, the complement (i.e., $\{V_2, tegami\}$) undergoes Transfer. **But *tegami* ‘letter’ has already been assigned accusative Case. Therefore, it will not receive dative Case since (48c) is a last-resort rule.**
- (iv) At the end of the overall derivation (i.e., at the point of TP), all the constituents undergo Transfer. *Taro* gets valued as nominative.

(53) This correctly predicts that *o-ni* stacking (i.e., accusative-dative stacking) is absent.

*Taro-ga tegami-o-dake-ni_i Hanako-ni t_i morat-ta.
Taro-NOM letter-ACC-only-DAT Hanako-DAT receive-PAST
‘Taro received only a letter from Hanako.’

(54) The proposed theory can also correctly predict the presence of *ni-ga* (i.e., dative-nominative stacking) stacking.

a. Hanako-ni-dake-ga_i (Taro-nitotte) t_i okane-o age-niku-i.
Hanako-DAT-only-NOM Taro-for money-ACC give-hard-PRES
‘Only Hanako is hard (for Taro) to give some money.’



➤ **Derivation:**

(i) Upon completion of the applicative phase, the complement (i.e., $\{V, okane\}$) undergoes Transfer. (The nominal phrase *okane* ‘money’ gets valued as accusative.)

(ii) Upon completion of the vP , *Hanako* undergoes IM into the edge of v at Transfer. ***Hanako* at the edge of V_2 gets valued as dative since it lacks a Case value at this point.**

(iii) The “complement” PRO undergoes Transfer.

(iv) At the end of the overall derivation (i.e., at the point of TP), all the constituents undergo Transfer. ***Hanako* at the edge of v gets revalued as nominative because nominative Case valuation is not a last-resort rule.** (Nominative Case is assigned to *Hanako* regardless of whether it has received a Case value or not.)

(55) The above derivation correctly predicts the presence of *ni-ga* stacking (i.e., dative-

nominative stacking). The above discussion confirms the view that dative Case valuation is applied only as a last-resort.

3.4 Conclusion

(56) I have argued that Japanese instantiates all the three possibilities shown below.

- (i) **Case₂+Case₁**: The *last* Case value received is realized morphologically.
- (ii) **Case₂+Case₁**: The *first* Case value received is realized morphologically.
- (iii) **Case₂+Case₁**: *All* the Case values received are realized morphologically.

(57) Type I TCs instantiate (i) and (iii), while Type IV TCs instantiate (i), (ii), and (iii). Scrambling can be seen as (ii).

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