# Direct/Inverse as Case

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#### 1. Introduction: What inverse is (not)

#### What does the inverse look like?

Algonquian languages have a verb form known as the *inverse*: in comparison to the unmarked ('direct') verb form (1), the assignment of person features to the agent and patient roles is 'inverted' (2).

			Plains Cree (	(Algonquia	n)			INVERSE nate	
(1)	;	a	Ki=wâpam-i	-n.		(2)	a	<b>Ki</b> =wâpam-i <b>t</b> ∮in.	loca
( )			2.Agent see					2.Patient see INV LOC	
			'You see me	,				'I see you'	1 2 (
		1	T/*^ /	۱			b	Ki=wâpam-iko wak.	local (Nonloca)
		b	Ki=wâpam-á					2.Patient see INV 3PL	mixed
G			2.Agent see	DIR 3PL				'S/he sees you'	
ا م	ν <b>ω</b>		You see the	m				They	
· / J		c Ø	Wâpam- <b>ê-w</b>	ak.	112		c	Wâpam- <b>iko</b> -wak.	Nonlocal
ر کی	29	1 kg	see DIR 3P	L.Agent	null			see INV 3PL.Patient	<b>V</b> • · · ·
Py	Cwt	W.	'They (prox	saw him/l	her (obv),\			'S/he (obv) saw them(pr	·ox)'
of her?	'	Unny	2.Agent see 'You see the 'Wâpam-ê-wasee DIR 3P 'They (prox	, I					
det	∿"() hata	onditi	one the press	nce of the	direct/inve	rse cans	trast?		
) <b>VV</b>	uai ( f	ound o	ons me prese n <i>transitive</i> v	arbe with a	um eeg m vei nimate narti	icinants	and ser	sitive to ranking effects. T	The combination of
/y p/	the	ce cynt	actically cond	litioned nai	r-wise const	raints de	erives th	e so-called person hierarc	hv.
wante	(">		actically cond is "c-comman		T WISO COINS			r	•
			rb forms:	2>1	2/1>3	3>3'			
			verb forms:	1>2	$\frac{2}{3} > \frac{2}{1}$	3'>3			
	111							Justin 3rd person	(
(3	)	Relati	on between th	e direct/inv	erse contras	st and a	nimacy	7.201	
		DIRE	cr→				0.2	is the second se	
		i i i i i i i i i i i i i i i i i i i	$^{2}$	(	3	A 7 / A	3' oviative	1970	
		( <u>n</u>	earer)   (	(speaker)	[(proximat	and the same of th	INVERS	50.000 F	
			LOCAL			The state of the s	N-LOCA		
		(s	peech act par	ticipant)	(no			rticipant)	
			Speaker heerev					M, F etc	
						J)			

#### Where do we find the direct/inverse contrast?

...coded by a closed class of suffixes—labeled DIRECT and INVERSE—that attach to the verb stem.

## What does the direct/inverse contrast do?

...codes how thematic roles map onto agreement

(4) a AGR<sub>AGENT</sub>-[...]-verb-direct-[...]-AGR<sub>PATIENT</sub> cf. (1b)

b AGR<sub>PATIENT</sub>-[...]-verb-INVERSE-[...]-AGR<sub>AGENT</sub> cf. (2b)

Question: What is the formal basis of the direct/inverse contrast?

Hypothesis 1: direct is a kind of active construction; inverse is a kind of passive construction (Howse 1844, Lacombe 1874, Hunter 1875, Jones 1911, Voegelin 1946; LeSourd 1976, Rhodes 1976, Jolley 1982)

Hypothesis 2: both direct and the inverse are transitive active constructions (Bloomfield 1958, Bloomfield 1962, Hockett 1966, Wolfart 1973).

Hypothesis 3: independent factors converge to create the effect of the direct/inverse contrast (Dahlstrom 1991; Dryer 1996; Halle & Marantz 1993; herein)

#### §2 The direct/inverse contrast reflects a split case system

- direct/inverse reflects case-marking (cf. Halle & Marantz 1993)
- direct morphology codes a nominative-accusative configuration
- inverse morphology codes an ergative-nominative configuration Timing obj the subjet ond the eighald be age

#### §3 Deriving the case split

• representation of transitive predicates

• structural determination of case

#### §4 Mapping case onto agreement

• (anaphoric) linking of Case-positions to agreement

Data set: The data is drawn primarily from Plains Cree (y-dialect) and Swampy Cree (n-dialect). Given that the direct/inverse distinction is a feature of all Algonquian languages, the proposal, if tenable, presumably generalizes to all Algonquian languages.

#### 2. Direct/inverse is split case

- Accusative versus ergative alignment §2.1
- The locus of case-marking §2.2
- Algonquian verbal agreement is case-sensitive §2.3
- Algonquian has a person-sensitive case-split \$2.4

# 2.1 Accusative versus ergative alignment

Terminological conventions (Comrie 1989, Blake 1994, Dixon 1994) = single argument of an intransitive verb subject = arguments of a transitive verb agent and patient

A COLIO ACCIONALIA (5)

	NOMINATIVE	ACCUSATIVE	
transitive verb	agent	patient	
intransitive verb	subject	1 .	

Nominative (6)Ergative alignment togative NOMINATIVE ACCUSATIVE transitive verb patient agent subject intransitive verb

(ii) if a language has overt case-marking, and if it also permits zero case-marking,

Suche Cost dishipships Suche Congress of Massibus agent vert patrient subject verb

Ergis also maked

it, marked Ness 15 gramatical Or a fact which is prevalant

Accusative/Ergative are marked cases:

Acc/Erg is the marked member of the opposition:

Me meyor observation that Acc

Acc/Erg is the marked member of the opposition:

Cre Marked as

if a language has Acc/Erg is singled out as the morphologically marked case (via case inflection or case particles).

# 2.2 The locus of case-marking

• Case may be marked on full nouns or pronouns (dependent marking), or it may be reflected in the pattern of verbal agreement (head-marking). This holds of both accusative and ergative alignment.

(7)	CASE-MARKING ON NOUNS (dependent ma Korean (Nom/Acc)	arking) (8)	Kalkatunga; Australian (Erg/Nom)
(7) a	Minca-ka Yongho-lul mann-ss-ta.  NOM ACC meet-PAST-DECL  'Minca met Yongho' (Sohn 1994:231)	a	Kuntu wampa-ngku kaun muu-yan-puni-mi not girl-ERG dress.NOM dirt-PROP-CAUS-FUT 'The girl will not dirty the dress'
ь	Nalssi- <b>ka</b> coh-ta. weather-NOM good-DECL 'The weather is good' (Sohn 1994:235)	b	Kaun muu-yan-ati. dress.NOM dirt-PROP-INCH 'The dress is dirty' (Blake 1979; cited in Blake 1994:166)
(9)	CASE-MARKING ON PRONOUNS (depend [data gap?: is there an attested languag English; Germanic (Nom/Acc)  She (NOM) saw her (ACC).		<del></del>
a b	She (NOM) fell.	a b	Her (NOM) fell.
(11) a	CASE-MARKING VIA VERBAL AGREEMEN Kinyarwanda; Bantu (Nom/Acc)  B- á- k- íib -ye  3PL.NOM-PAST-3.ACC-steal-ASP  'They stole it' (Kimenyi 1978:185)		
b	Ábáana <b>b</b> -a-gii-ye. children 3PL. <b>NOM</b> -PAST-go-ASP 'The children left' (Kimenyi 1978:59)	b	Gizona etorri <b>d</b> -a. man.NOM come 3s.NOM-AUX 'The man has come' (Brettschneider 1979:376, 378; cited in Palmer 1994:104)

# 2.3 Algonquian verbal agreement is case-sensitive

- Algonquian direct/inverse verb forms display split case alignment.
  - Direct verb forms show accusative alignment: transitive agent = intransitive subject, (13-14)
  - Inverse verb forms shows ergative alignment: transitive **patient** = intransitive **subject**, (15-16)

direct verb forms: accusative	alignment	(LOCAL	> 3)
$\mathbf{ni} = \mathbf{wapam} - \mathbf{\hat{a}} - \mathbf{w}$	(14)	a	ni = kisiwâsi -

(13)	a	<ul><li>ni = wâpam -â - w</li><li>1.AGENT see DIR 3</li><li>'I see him/her'</li></ul>	(14)	a	ni = kisiwâsi - n 1.SUBJ angry sg 'I am angry'
	b	<ul><li>mi = wâpam -â - nân</li><li>1.AGENT see DIR 1pl</li><li>'We see him/her '</li></ul>		ь	ni = kisiwâsi - nân 1.SUBJ angry 1pl 'We are angry'
	с	ki = wâpam -â - w 2.AGENT see DIR 3 'You see him/her'		c	*We are angry'  ki = kisiwâsi - n  2.SUBJ angry sg  'You am angry'
	đ	ki = wâpam -â - naw 2.AGENT see DIR pl 'We (incl) saw him/her'		d	ki = kisiwâsi - naw 2.SUBJ angry pl 'We (incl) are angry'
	e	ki = wâpam -â - wâw 2.AGENT see DIR 2pl 'You (pl) saw him/her'		e	ki = kisiwâsi - nâwâw 2.SUBJ angry 2pl 'You (pl) are angry'
		inverse verb forms: ergative al	ignment	(3 > La)	OCAL)
(15)	a	ni = wâpam - ik - (w) 1.PATIENT see INV 3 'S'ha saas ma'	(16)	a	ni = kisiwâsi - n 1.SUBJ angry sg 'I am angry'

(15)	a	n = wapam - 1k - (w) 1.PATIENT see INV 3 'S/he sees me'	(10)	а	1.SUBJ angry sg 'I am angry'	R
	ь	ni = wâpam - iko - nân 1.PATIENT see INV 1pl 'S/he sees us'		ь	ni = kisiwâsi - nân 1.SUBJ angry 1pl 'We are angry'	
	c	<ul><li>ki = wâpam - ik - (w)</li><li>2.PATIENT see INV 3</li><li>'S/he sees you'</li></ul>		С	ki = kisiwâsi - n 2.suBJ angry sg 'You am angry'	
	d	<pre>ki = wâpam - iko - naw 2.PATIENT see INV pl 'S/he sees us (incl)'</pre>		d	ki = kisiwâsi - naw 2.SUBJ angry pl 'We (incl) are angry'	
	е	ki = wâpam - iko - wâw 2.PATIENT see DIR 2pl 'S/he sees you (pl)'		е	ki = kisiwâsi - nâwâw 2.SUBJ angry 2pl 'You (pl) are angry'	

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papresent
-ERG agams
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Lysystem

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2.4	ŧ A	Algonquian	has a	person-	-sensitive	case-split
4.	<i>-</i>	Mgumumam	nas a	DCI 20TL	-2011211111	cast-spiii

- The Algonquian case split is sensitive to person features: agreement with local speech act participant (1st and 2nd person) Nominative argument
  - Direct verb forms (NOM/ACC): LOCAL agreement = Nominative agent/subject
  - Inverse verb forms (ERG/NOM): LOCAL agreement = Nominative patient /subject
- Person-sensitive split-case is attested in other languages; e.g., Rembarnga OBJ-SUBJ-Verb if Agent > Patient

if Patient > Agent, then Ergative alignment

OBJ-n-SUBJ-Verb

mapping of Case to person features in Rembarnga (17)

Accusative alignm	nent →		
	2	3 plural	3 singular
		← Ergativ	e alignment

- Rembarnga agreement codes person-senstivie grammatical function:
  - (18a) unmarked verb form:

OBJ-SUBJ-Verb

(18b) marked verb form:

OBJ-n-SUBJ-Verb

(18)Rembarnga (Australian)

'I saw them'

a A√ ( Pa-**nga**-na 3PL.OBJ-1.SUBJ-see S 0

(19) Plains Cree (Algonquian) ni=wâpam-â-wak

1 see DIR 3PL

'I saw them'

b R Ngan pa-na

1.0BJ-N-3PL.SUBJ-see 'They saw me'

(adapted from Blake 1994: 121, 123)

ni=wâpam-**ik**-wak b INV 3PL 1 see 'They saw me'

ung case marker not agrumnt introducer is.

Another language where case- marking is sensitive to a nominal hierarchy is Fore, a Papuan language:

(22)

mapping of Case to noun type in Fore (20)

Accusative alignment → pronoun | personal name

kin term

human

animate

inanimate

← Ergative alignment

Fore word order is person-sensitive:

(21a) unmarked word order: (21b) marked word order:

a

OSV

S-wama O V

(ACCUSATIVE ALIGNMENT)

(ERGATIVE ALIGNMENT)

- (21)Fore (Papua New Guinea)
  - Yagaa wá aegúye man.NOM 3s.hit.3s 'The man kills the pig'
  - b Yagaa-wama wá aegúye man.NOM 3s.hit.3s pig-ERG 'The pig kills the man' (Blake 1994: 123)
- Plains Cree (Algonquian)
- $K\hat{i} = w\hat{a}pam \hat{a} w John$ Mary-wa. a PERF see DIR 3 John(PROX) Mary OBV 'John(prox) saw Mary(obv)'
- $K\hat{i} = w\hat{a}pam ik (w)$  John Mary-wa. b INV 3 John(PROX) Mary OBV 'Mary(obv) saw John(prox)'

It ( a round

but we don't

Call il flat

#### 3. Deriving the case split in Algonquian

- Results so far:
  - (i) Algonquian agreement is cued to a person features.
  - (ii) The same factors that condition split case in other languages are at play in Algonquian
- The person-sensitive split case-marking seen in Algonquian reflects the convergence of two mechanisms:
  - §3.1 Theta-theoretic properties of  $\nu P$
  - §3.2 Case-theoretic properties of Accusative/Ergative alignment

## 3.1 Theta-theoretic properties of vP

The Theta Criterion imposes a one-to-one correspondence between theta-roles and argument positions.

in time a little

- (23) Theta Criterion (version I)
  - Each argument is assigned one and only one theta role.
- bigniquess Each theta role is assigned to only and only one argument. (Haegeman 1994:54)
- In Minimalism, the Theta Criterion is derived by feature checking (Hornstein):

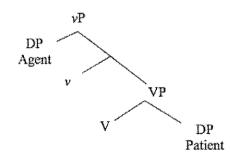
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- an argument expression (DP) is introduced into the derivation to check theta-features
  - verbal heads are the locus of theta-features not decompostion
  - there is a one-to-one correspondence between theta-features and verbal heads.
- (24) Theta Criterion (version II)
  - Each verbal head has one and only one theta-feature.
  - Each theta-feature is associated with one and only one verbal head. (ii)
- Theta Criterion II imposes is a one-to-one correspondence between verbal heads an argument positions (cf. Hale & Keyser 1993, Chomsky 1995, Kratzer 1996, Borer 2005a).
  - the external agent argument of a transitive predicate is introduced by "small v"
  - the internal patient argument of a transitive predicate is introduced by "big V"
- Applying the articulated vP structure to Algonquian morphosyntax yields the following:

b

- "Roots" are modifiers adjoined to vP (Déchaine 2003, Reinholtz 2006)
- "Abstract finals" spell-out small v (Hirose 2000) (ii)
- "Theme signs" spell-out big V (Hirose 2000) (iii)
- articulated vP Structure (25)

articulated vP structure in Algonquian



Root DP Agent v Trans DP Patient

manner?

		an roots are obligatorily augney (intransitive, transitive),						
(26)	a	Miyosiw. [miyo-si]=w good-STAT.anim=3 's/he is well'		(27)	a	Kiskisiw. [kiskis-i]=w remember-PROCES 's/he remembers'		
	b	Miyonam. [miyo-n-am] good-TRANS.by.hand-inant	IWIG, im		b.	Kiskisohêw. [kiskiso-h-ê]=w [remember-TRANS 's/he made him/he	s-anim]=3 er remember'	trasily b
(26')	a	$[_{\mathrm{VP}}\ [_{\mathrm{ROOT}}\ \textit{miyo}\ ]$	$[_{ m VP}]$	proanin	$_n$ [ $_{ m V}$ -sig	STATE.ANIM]]		a
	b	$[_{VP} [_{ROOT} miyo] [_{VP} pro$	[v -n [ <sub>VP</sub> ]	pro <sub>anin</sub>	$_n$ [ $_{ m V}$ -an	$n_{inanim}$ ]]]		grow
(27')	a	[ <sub>VP</sub> [ <sub>ROOT</sub> kiskis]	$[_{ m VP}]$	proaņir	n [v - <b>i</b> p]	ROCESS.ANIM]]		\
	b	$[_{VP} [_{ROOT} $ kiskiso $] [_{VP} $ pro	v [v - <b>h</b> [ <sub>VP</sub>	pro <sub>ani</sub>	$_{m}$ [ $_{ m V}$ - $\hat{m{e}}_{_{I}}$	ANIM ]]]	Why	3 train
	hat is C	oretic properties of Accusa ase? Possible answers inclu	de saying	that Ca	se is a(r	1)		is true of in a

Hypothesis 1: relation between a head (e.g. V, Infl, P, Agr) and an argument

Hypothesis 2: kind of aspect-marking (Borer 1993)

Hypothesis 3: (uninterpretable) feature (Chomsky 1995)

Hypothesis 4: scope-assigning mechanism (Hornstein (1995, 2001)

Hypothesis 5: D-feature for marked Case (Acc, Erg), and Nom elsewhere (Bittner & Hale 1996a,b)

We adopt a combination of Hypotheses 4 and 5:

(i) marked Case (Acc, Erg) has a fixed scope position within vP, Nom Case has wide scope

fixed cuidescape

For both nerrow build? (ii) D-feature forces marked structural Case (Acc/Erg)

(28) *Split-case analysis of direct/inverse* 

LOCUS OF D-FEATURE	Marked Case (KP)	TARGET OF MARKED CASE	VERB FORM	
V Accusative		Patient	DIRECT	
v	Ergative	Agent	INVERSE	

'S/he sees me'

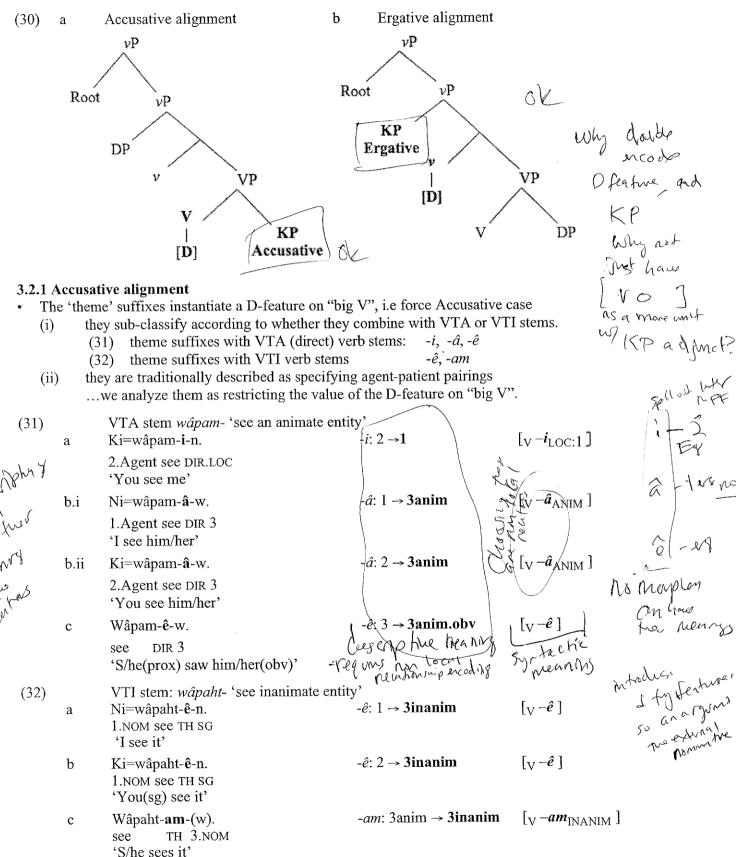
(29)Ni=wâpam-â=w. b Ni=wâpam-ik=(w). 1.Agent see DIR 3.Patient 1.Patient see INV 3.Agent

'I see her/him'

that or V needs an argument

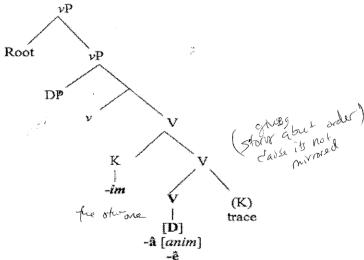
med a definite element,

preu a alread a head for there's gender an han



- $[_{\text{ROOT}} w \hat{a} p a [_{VP} \text{ pro } [_{V} m] [_{VP} [_{V} i_{\text{LOC}:1}]]$ VTA stem (31)'[pro]]  $[_{\text{ROOT}} \ w \hat{a} p a - [_{\text{VP}} \ \text{pro} \ [_{\text{V}} - m] \ [_{\text{VP}} \ [_{\text{V}} - \hat{a}_{\text{ANIM}}]$ b [pro]]  $[_{\text{ROOT}} w \hat{a} p a - [_{VP} \text{ pro } [_{V} - m] [_{VP} [_{V} - \hat{e}]]$ c [pro]] (32)' $[_{ROOT} w \hat{a} p a - [_{VP} pro [_{V} - m] [_{VP} [_{V} - \hat{e}]]$ [pro]] VTI stem a [ROOT  $\hat{wapa}$ -[ $_{VP}$  pro [ $_{V}$ -m] [ $_{VP}$  [ $_{V}$ - $am_{INANIM}$ ] [pro]] b ( ohir one
- A special object suffix (-im) can be positioned between the verb stem and the theme marker.
  - (i) -im is translated as 'the other one'
  - (ii) denotes the presence of a referentially independent argument;
  - (iii) locus of discourse-linked reference (Déchaine & Wiltschko 2002, Muehlbauer in prep.)
  - (iv) here analyzed as the spell-out of Accusative K(ase)
- (33) a Ni=wâpam-im-â-wa. l see ACC DIR OBV 'I saw the other one(obv)'
  - b Ki=wâpam-im-â-wa, 2 see ACC DIR OBV 'You saw the other one'
  - c Wâpam-im-ê-w. A fale chily ara hun
    see ACC DIR-3
    'S/he(prox) saw the other one'
- flere Javels intradus ACC (Burtizis's head)
  - Spenksherer did it Agust

(34) -im as the spell-out of Accusative Kase



#### 3.2.2 Ergative alignment

- The inverse suffix -ik(w) correlates with a D-feature on "small v", which forces Ergative Case
  - (i) inverse and direct suffixes are introduced in distinct positions (pace Dahlstrom, Brittain)
  - (ii) inverse suffix -ik(w) is introduced in Infl (and not in "small v")
- Reasons for positioning inverse in Infl
  - (i) "small v" is locus of transitivising morphology which is insensitive to Case alignment
  - (ii) diminutive suffix –(i)si confirms direct suffix is vP-internal and inverse suffix is vP-external
    - diminutive follows the direct suffix, (35a)
    - diminutive precedes the inverse suffix, (35b) (assumption: diminutive -(i)si is a Degree head sister to vP)

Highest Ropettes Electroportes

R.M. Déchaine & C. Reinholtz

[pakamahw-ê]-si\w (35) a DIR DIM 3 hit.so 'he hits him a little bit'

Deg

-(î)si

...[pakamaho]-si-ko-t... DIM INV 3 (conjunct) hit.so 'he(obv) hits him a little bit' (Wolfart 1973:61b)

(36)diminutive + Accusative alignment

b diminutive + Ergative alignment IP (...) (...) Infl Infl DegP DegP -ik(w)

b

Deg

Root vPpakam -hw

 $\nu P$ 

-hw  $\square$ 

vP

 $\nu P$ 

Root

pakam

-(i)si

h verse

Direct/Inverse as Case

Migher speaker herer & numare duced 4. Mapping Case onto Agreement Results so far: Acc and Erg are marked structural Cases associated with vP-internal argument positions

ŘР

[D]

• Remaining to be accounted for: Nom Case

Nominative is the elsewhere Case assigned to "bare DPs" that have raised to Spec, IP

Movement of the Nom argument captures the fact that it has higher scope (cf. Hornstein 1995) (ii)

Manning Nominative Case

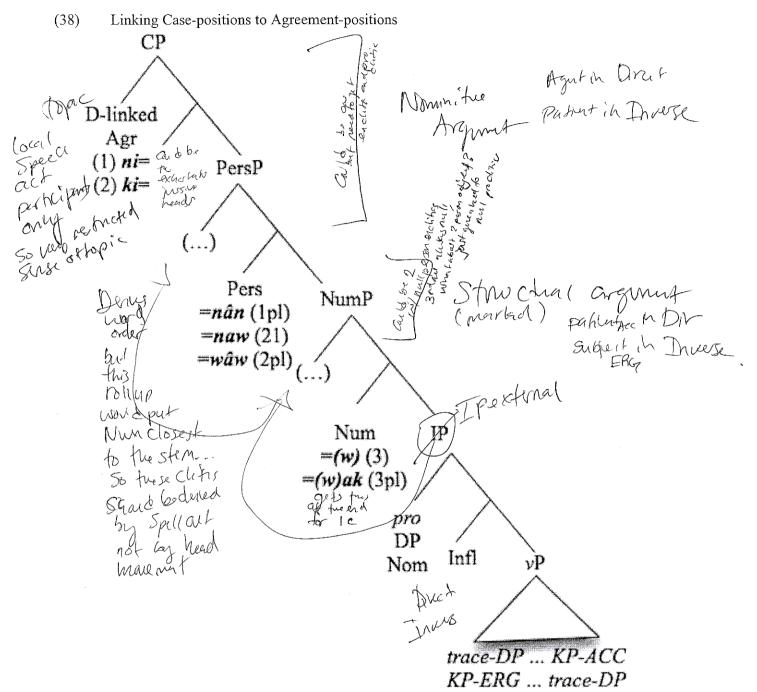
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mapping in	mmanye Case			
verb form	Marked structural Case (KP)	Nominative (DP)	Position	
DIRECT	Accusative	agent	Spec,IP	(43a)
INVERSE	Ergative	patient	Spec,IP	(43b)

- There are three IP-external agreement positions (Déchaine 1999)
  - Discourse-linked agreement (D proclitic in Spec, CP);
  - Person-sensitive number agreement (Person enclitic)' (ii)
  - Person-sensitive number agreement (Person enclitic)
- Linking Case to Agreement:
  - Argument with highest scope (Nominative DP) links first. (i)
  - Nominative DP links to highest Agreement available (D/Pers, else Num) (i)
  - Acc/Erg KP links to highest Agreement available (D/Pers, else Num)

be united of aspect

direct



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			lot Ga	nph catee	Liter	you look at
(39)	Agreement sub-par			<del>, ' ' ' ' - '</del>		B protedigne
	sub-paradigm		ECT		ERSE	
		Nom	Acc 3	Erg 3	Nom 1/2	discussed here any is a parhape
	"mixed" series "local" series	1/2 2	1	1	2	not treated here only participant
	"3rd person" series	3	3	3	3'	discussed here in part
	tall 17 4 Carello and an analysis and a second a second and a second a	Br., ice is de Arres and Calles i	I Kajaling a kasalah kasa sa ingsi	Blog to a constant remaining	WEST AND STREET	prhlipat
• (40-41)					links to D/P	E .
(42-43)	• •	•	,		links D	Acc/Erg links to Number
(44-45)	•	on (Numbe	r):	Nom	links to Nur	mber ERG-NOM m-iko=nân=ak. EINV lpl pl.ERG Malpens > f eus' m-iko=wâw=ak.  a Cyml7
(10)	DIRECT NOM-ACC				INVERSE E	ERG-NOM
(40) a	Ni=wâpam-â=nân		(41	) a	Ni=wapar	m-1ko=nan=ak.
	1.NOM see DIR 1pl 'We see them'	pi.acc			'They see	inv IDI DI.ERG Malpens >)
		_			They see	m-iko=wâw=ak.
b	Ki=wâpam-â=wâv			ь	Ki=wapar	m-1k0=waw=ak.
	2. NOM see DIR 2pl 'You(pl) see them	^			'They see	E UNV ZIJI DLEKU
(40)	•		(40	2)	•	bigh agreed 1
(42) a	Ni=wâpam-â=wak 1.NOM see DIR pl.		(43	3) a	_	m-ik=wak. EINV pl.ERG B pretty Straight Sons
	'I see them'	ACC			'They see	eme' has a charact will
ь		×		b	•	TOM OLY JO.
. 0	Ki=wâpam-â=wal 2.nom see DIR pl.			υ	_	m-ik=wak. e INV pl.ERG
	'You(sg) see them				'They see	^
(44)	Wâpam -ê - wak.		(45	5)	Wâpam -i	
( )	see DIR pl.NOM	i pla	,	- )	see INV	3. pl.nom
	'They see him/her			ler"	'S/he(OBV	v) sees them' and the
5. Conclu	sion	. ,	nost regul	Be she w	urb on lit	
5.1 Langu	age-internal consequ	1.0	nut 3m	pea U	are mdelle diteet	5 MCCCO
• Conse	quence 1: derives indef	inite subjec	ct construct	tion	- ,	ALE WILL INK TO
(i) "	3rd person' series (inde	efinite>3) i	s necessaril	ly based or	n direct Non	n-Acc forms FRG The number
,	vny?because this is	the only co	ontext when	re Acc = 3		
	mixed' series (indefini					Nom forms Num
	Why?because this is					IL patient) (U' ) with a MM
, , 1	oart of a larger series of	inverse e	-		(3.38)	
(46) a	Wâpam - <b>â</b> - wak. see DIR pl.ACC	,	(4'	7) a		hera (+ Can),
	'Someone sees the		re seen'			he littled to
•		-		1	NT' ^	Nom forms Lipatient)  When Mum Lipatient)  Anitsonny  Mena it Can  be libed to  m-ikawi-nân.  ee -ikawi-1pl
Ь				b		ım- <b>ikawi</b> -nân. Me Nowis
Andes						sees us (excl)'
.0.000	ACC pag	ciden				
	tic paa	70			ERI	a pundizm.
						·

Soul poson Can be proon like when Specific Diny 50 200 poson Cooling mpped to hip, of liperon 1. Déchaine & C. Reinholtz and we find this in other Dialeis Direct/Inverse as Case Consequence 2: "3rd person" can map onto D, Pers or Num; correctly predicts variation in number marking

Agut (x) There (x)

R.M. Déchaine & C. Reinholtz

Consequence 2. 31	d person can map	onto D, i cis or	rum, correctly proc	neis variation in ne	illioci illari
		D	Pers	Number	
Blackfoot	direct			<b>√</b>	(48)
	inverse	$\checkmark$	√	√	
Potawatomi		V	√		(49)
Eastern Swampy Cree	direct: 3NOM			√	(50)
•	inverse: 3ERG		√		
Plains Cree				V	(51)

(48)		Blackfoot		like I & Z, 3is april
	a	[ikákomimm-ii]- <b>yi</b>	b	ots-[ikákomimm-ok]-oaá-yi
		love-dir-pl.nom		3.NOM-love-INV-pl.NOM-pl.NOM
		'they love him/them'		'he/they love(s) <b>them</b> '
(49)		Potawatomi		
	a	/ <b>w</b> -[wapm-a]- <b>wa-n</b> /	b	/w-[wapm-uk]-wa-n/
		3.NOM-see-DIR-pl-OBV.ACC		3.NOM-see-INV-pl-OBV.ERG
		'they see the other(s)'		'the other(s) see(s) them'
(50)		Eastern Swampy Cree		
	a	Wâpam-ê- <b>wak</b>	b	Wâpam-ik- <b>wak</b>
		see DIR pl. NOM(NUMBER)		see INV pl.ERG(PERSON)
		'They see him/her'		'They see him/her'
(51)		Plains Cree		
	a	Wâpam-ê- <b>wak</b>	b	Wâpam-ik-wak
		see DIR pl.NOM		see INV pl.NOM
		'They see him/her'		'S/he sees them'

#### 5.1 Theoretical consequences

Theta theory:

"argument structure" is stated in terms of a one-to-one relation between a head and an argument (i)

transitive structure necessarily involved two heads ("small v" and "big V") (ii)

(iii) "small v" and "big V" are the locus of D-features relevant for marked structural Case

Case theory:

Case-features (whatever they are) are interpretable (pace Chomsky); (i)

Case-positions are scopal (in accordance with Hornstein)-(ii)

Marked structural case (Acc/Erg KP) is vP-internal (iii)

Marked structural case is induced by a D-feature on "small v" and "big V" (iv) (friendly amendment to Bittner & Hale)

Linking theory:

Higginbotham's linking theory correctly accounts for the many-to-one mapping between argument positions and agreement which is pervasive throughout the Algonquian language family.

They Saw ne ElG で (の MCC in objects mappeds hotun ma a mated

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