Deictic path elements in Cantonese directional motion constructions

Justin R. Leung 梁路明 justinr.leung@mail.utoronto.ca

University of Toronto

2023 CLA Conference, York University May 31 to June 2, 2023









Deictic path in Cantonese

(1) a. 張三 嚟 咗 CLA 研討會。

Introduction

•00

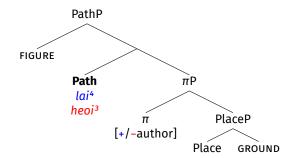
zoeng¹ saam¹ lai⁴ zo² CLA jin⁴tou²wui². Cheung Sam come PFV CLA conference 'Sam Cheung came to the CLA conference.'

b. 李四去 咗圖書館。

lei⁵ sei³ (heoi³) zo² tou⁴syu¹gun². Lee Sze go PFV library 'Sze Lee went to the library.'



Main proposal



Deictic path elements are special realizations of the prepositional head Path (Jackendoff 1983, Svenonius 2010) when its complement is the person projection πP (Harbour 2016).



Roadmap

Introduction

000

- Introduction
- Background
- Similarities to other directional elements
- Distinct features of Deictic path
 - Relative position of Deictic and Non-deictic elements
 - Locative arguments
 - Stranding
- 5 Analysis
- 6 Conclusion



Background Similarities Distinct features Analysis Conclusion Refs & thanks

◆○○○ ○○○ ○○○○○○○○○○ ○ ○○○○○○○○○○○○○ ○ ○○○

Deictic path

Introduction

- Denotes direction with respect to the location of the speaker
- At least semantically, Deixis can be viewed as a special combination of Path (e.g., TO, FROM) and Ground (Talmy 2000, Matsumoto & Kawachi 2020)



Deictic path

- In many languages, Deixis seems to occupy a morphosyntactic slot distinct from Non-deictic Path elements (Lamarre 2008, Matsumoto & Kawachi 2020)
- (2) German (Indo-European) (adapted from Lamarre 2008: 71)
 - a. her-aus-tragen hither-out-carry 'carry out toward speaker'
 - b. hin-aus-werfen thither-out-throw 'throw out away from speaker'

- (3) Jakaltek (Mayan) (adapted from Lamarre 2008: 71)
 - a. ten-il-**tij**hold-out-hither
 'pull out toward speaker'
 - b. ten-ik-toj hold-in-thither'push into away from speaker'



Deictic path in Cantonese

嚟 lai⁴/lei⁴	去 heoi³		
'come, hither'	'go, thither'		
venitive	andative		
towards speaker location	towards ¬(speaker location)		



J. R. Leung (Toronto) CLA 2023 May 31 – June 2, 2023 7 / 47

Directional elements

Deictic	Non-deictic	Return
嚟 lai4 'come'	出 ceot¹ 'exit'	返 faan¹ 'return'
去 heoi³ 'go'	入 jap ⁶ 'enter'	
	上 soeng⁵ 'ascend'	
	落 lok ⁶ 'descend'	
	埋 maai4 'approach'	
	過 gwo³ 'pass'	

(Cheung 2007, Yiu 2013)



Both can be standalone predicates

(4) a. 阿明<mark>嚟</mark>咗圖書館。

[Deictic]

aa³-ming⁴ lai⁴ zo² tou⁴syu¹gun². ah-Ming come PFV library 'Ming come to the library.'

b. 阿明入咗圖書館。

[Non-deictic]

aa³-ming⁴ jap⁶ zo² tou⁴syu¹gun². ah-Ming enter PFV library 'Ming entered the library.'

(Yiu 2013)



Both can take locative arguments

(5) a. 阿明<mark>嚟 咗圖書館。</mark>

[Deictic]

aa³-ming⁴ lai⁴ zo² tou⁴syu¹gun². ah-Ming come PFV library 'Ming come to the library.'

b. 阿明入咗圖書館。

[Non-deictic]

aa³-ming⁴ jap⁶ zo² tou⁴syu¹gun². ah-Ming enter PFV library 'Ming entered the library.'

(Yiu 2013)



J. R. Leung (Toronto)

Both can appear after a manner verb

(6) a. 阿明行咗去圖書館。

aa³-ming⁴ (haang⁴) zo² (heoi³) tou⁴syu¹gun².

ah-Ming walk PFV go library

'Ming went to the library by walking.'

b. 阿明走咗Ш圖書館。

aa³-ming⁴ zau² zo² ceot¹ tou⁴syu¹gun².
ah-Ming run pFv exit library

'Ming ran out of the library.'

[Non-deictic]

[Deictic]

(Yiu 2013)



Introduction Background Similarities Distinct features Analysis Conclusion Refs & thanks

Relative position of Deictic and Non-deictic elements

Manner < Non-deictic < Deictic

阿明上咗去(山頂)。

(7)

Co-occurrence of Non-deictic and Deictic elements

```
aa<sup>3</sup>-ming<sup>4</sup> soeng<sup>5</sup> zo<sup>2</sup> heoi<sup>3</sup> (saan<sup>1</sup>
                                                                     deng<sup>2</sup>).
       ah-Ming
                       ascend PFV go
                                                      mountain top
       'Ming went up (to the top of the mountain).'
       阿明行咗上去(山頂)。
(8)
       aa<sup>3</sup>-ming<sup>4</sup> (haang<sup>4</sup>) zo<sup>2</sup>
                                           soenq<sup>5</sup>
                                                        heoi<sup>3</sup>
                                                                                   deng2).
                                                                  (saan1
       ah-Ming
                       walk
                                     PFV ascend go
                                                                   mountain top
```

'Ming walked up there (to the top of the mountain).'

Relative position of Deictic and Non-deictic elements

Aspectual markers

Aspectual markers attach after the first element in a sequence.

- (9) a. 阿明行(咗)上(* 咗)去(* 咗)。

 aa³-ming⁴ (haang⁴) (zo²) (soeng⁵) (*zo²) (heoi³) (*zo²).

 ah-Ming walk PFV ascend PFV go PFV

 'Ming went up by walking.'
 - b. 阿明上(咗)去(* 咗)。

 aa³-ming⁴ soeng⁵ (zo²) heoi³ (*zo²).

 ah-Ming ascend PFV go PFV

 'Ming went up.'



J. R. Leung (Toronto)

Locative arguments

Optionality of locative arguments

```
(10) a. 阿明孟咗 (山頂)。 [Deictic, optional]

aa³-ming⁴ (heoi³) zo² (saan¹-deng²).
ah-Ming go PFV mountain-top
'Ming went (to the top of the mountain).'

b. 阿明上咗?(山頂)。 [Non-deictic, obligatory]

aa³-ming⁴ soeng⁵ zo² ?(saan¹-deng²).
ah-Ming ascend PFV mountain-top
```

'Ming ascended to the top of the mountain.'

troduction Background Similarities **Distinct features** Analysis Conclusion Refs & thanks

Locative arguments

Three possible interpretations

Source Route Goal FROM VIA TO

(Jackendoff 1983, Yiu 2013)



Locative arguments

Introduction

All three interpretations possible

PFV room

(11) a. 我出咗房。 [source]

 nqo^5 ceot¹ zo^2 fong². exit 1SG

'I exited from the room.'

[route]

我出咗後門。 h.

 ngo^5 (ceot¹) zo^2 hau⁶-mun².

1SG exit PFV back-door

'I exited through the back door.'

我出 咗後院。 c.

[goal]

ngo⁵ (ceot¹) zo² hau⁶-jyun².

1SG exit PFV back-yard

'I exited to the backyard.'

Locative arguments

Introduction

Two interpretations only

(12) a. 我入咗**前便。** [#source]

 ngo^5 jap^6 zo^2 cin^4 -bin⁶.

1SG enter PFV front-side

'I entered to the front.' / #'I entered from the front.'

b. 我入咗前門。 [route]

 ngo^5 jap^6 zo^2 cin^4 -mun².

1SG enter PFV front-door

'I entered through the front door.'

c. 我入咗房。 [goal]

ngo⁵ jap⁶ zo² fong².

1SG enter PFV room

'I entered the room.'

J. R. Leung (Toronto)

 Introduction
 Background
 Similarities
 Distinct features
 Analysis
 Conclusion
 Refs & thanks

 000
 000
 000
 00000
 00000
 000000
 000000
 000000000
 0000000000
 0000000000
 0000000000
 0000000000
 00000000000
 00000000000
 00000000000
 00000000000
 00000000000
 0000000000000
 00000000000
 00000000000
 000000000000
 00000000000
 00000000000
 00000000000
 00000000000
 00000000000
 00000000000
 00000000000
 000000000000
 000000000000
 00000000000000
 000000000000
 000000000000
 000000000000
 000000000000
 000000000000
 000000000000
 000000000000
 000000000000
 0000000000000
 0000000000000
 00000000000000
 0000000000000
 000000000000
 000000000000
 0000000000000
 000000000000000
 00000000000000
 000000000000000
 000000000000000
 0000000000000000
 0000000000000000
 0000000000000000
 00000000000000000
 00000000000000000
 00000000000000000
 0000000000000000000000
 00000000000000000000
 000000000000000000000000
 00000000000000000000000000

Locative arguments

Goal only

(13) a. 我<mark>嚟</mark>咗**學校**。

[#source]

ngo⁵ (ai⁴) zo² hok⁶haau⁶.

1SG come PFV school

'I came to school.' / #'I came from school.'

b. 我嚟咗**樓梯**。

[#route]

ngo⁵ lai⁴ zo² lau⁴tai¹.

1SG come PFV stairs

'I came to the stairs.' / #'I came along the stairs.'

c. 我嚟咗圖書館。

[goal]

ngo⁵ [ai⁴] zo² tou⁴syu¹gun².

1SG come PFV library

'I came to the library.'

Locative arguments

Possible interpretations for each directional element

Directional elements	Goal	Route	Source
出 ceot¹ 'exit', 上 soeng⁵ 'ascend',	✓	✓	✓
落 lok ⁶ 'descend'			
入 jap ⁶ 'enter', 過 gwo³ 'pass'	1	✓	
埋 maai+ 'approach',	✓		
嚟 lai⁴ 'come', 去 heoi³ 'go'	1		



19 / 47

J. R. Leung (Toronto) CLA 2023 May 31 – June 2, 2023

Preposition stranding

Stranding

- Crosslinguistically, locative objects are often introduced by adpositions (Svenonius 2007)
- Prepositional stranding is generally banned in Cantonese (Lam 2013): unavailability of stranding points to adpositionhood



20 / 47

J. R. Leung (Toronto) CLA 2023 May 31 – June 2, 2023

Stranding

Introduction

Stranding a single directional element

- 我去/入過嗰間房。 (14)
 - nqo^{5} (heoi³)/jap⁶ qwo^{3} qo^{2} $qaan^{1}$ fong². go/enter EXP that CLF 1SG room 'I have gone to/entered that room before.'
 - [我去/入過 ___,] 嘅 [嗰間房], 好大。 b.
 - $[ngo^5 \text{ heoi}^3/\text{jap}^6]$ gwo³ $__i$ ge³ $[go^2 \text{ gaan}^1 \text{ fong}^2]_i$ hou² daai⁶. go/enter EXP GE that CLF room very big 1SG 'That room that I have gone to/entered before is very big.'

Stranding the last of a sequence of elements

我行過去/入嗰間房。 (15) a.

ngo⁵ haang⁴ gwo³ heoi³/jap⁶ go² gaan¹ fong².

walk EXP go/enter that CLF 1SG room

'I have gone to that room by walking before. / I have walked into that room before.'

[我行過去/*入__,] 嘅 [嗰間房], 好大。 b.

 $[haang^4]$ gwo³ $[heoi^3]/*[jap^6]_{-}$ ge³ $[go^2]$ gaan¹ $[fong^2]$ walk go/enter GE that CLF 1SG FXP room verv daai6.

big

Intended: 'That room that I have gone to by walking / walked into before is very big.'



ntroduction Background Similarities **Distinct features** Analysis Conclusion Refs & thanks

Summary

Summary of data

Directional	Stranding		Transitivity	Interpretation	Aspectual marking	
elements	Single	Final			Initial	Non-initial
Deictic	✓	✓	Optional	Goal only	✓	*
Non-deictic	✓	*	Obligatory	Root-dependent	✓	*



ntroduction Background Similarities **Distinct features** Analysis Conclusion Refs & thanks

Summary

Summary of data

Directional	Stranding		Transitivity	Interpretation	Aspectual marking	
elements	Single	Final			Initial	Non-initial
Deictic	✓	✓	Optional	Goal only	✓	*
Non-deictic	1	*	Obligatory	Root-dependent	✓	*

Generalization #1

Single stranding and initial aspectual marking pattern together $\longrightarrow V$



troduction Background Similarities **Distinct features** Analysis Conclusion Refs & thanks

Summary

Summary of data

1	Directional	Stranding		Transitivity	Interpretation	Aspectual marking	
	elements	Single	Final			Initial	Non-initial
	Deictic	✓	✓	Optional	Goal only	✓	*
	Non-deictic	✓	*	Obligatory	Root-dependent	✓	*

Generalization #1

Single stranding and initial aspectual marking pattern together $\longrightarrow V$

Generalization #2

Can take locative arguments, *non-initial aspectual marking \longrightarrow P



Summary

Summary of data

Directional	Stranding		Transitivity	Interpretation	Aspectual marking	
elements	Single	Final			Initial	Non-initial
Deictic	✓	1	Optional	Goal only	✓	*
Non-deictic	✓	*	Obligatory	Root-dependent	✓	*

Generalization #1

Single stranding and initial aspectual marking pattern together $\longrightarrow V$

Generalization #2

Can take locative arguments, *non-initial aspectual marking \rightarrow P

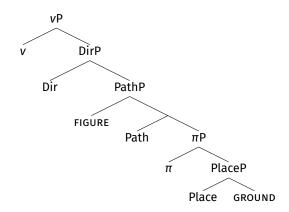
Generalization #3

Final stranding and transitivity pattern together \longrightarrow Deictic inherently has locative

J. R. Leung (Toronto) CLA 2023 May 31 – June 2, 2023

23 / 47

Proposed analysis



(building on Svenonius 2010, Harbour 2016)

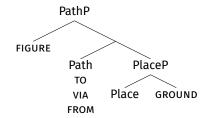


24 / 47

J. R. Leung (Toronto) CLA 2023 May 31 – June 2, 2023

Path introduces locative argument

Introduction



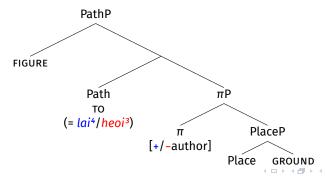
- Path head requires a locative complement (typically PlaceP)
- Path can be valued as TO (goal), VIA (route), or FROM (source) (Jackendoff 1983), determines the interpretation of the locative
- Path heads usually have phonologically null exponents



J. R. Leung (Toronto) CLA 2023 May 31 – June 2, 2023 25 / 47

Deictic element as special realizations of Path

- Pecularities of Deictic elements:
 - Locative arguments always interpreted as goals of motion → special exponents of the Path head To
 - Locative arguments optional → complement of Path is person projection πP (Harbour 2016)



J. R. Leung (Toronto) CLA 2023 May 31 – June 2, 2023 26 / 47

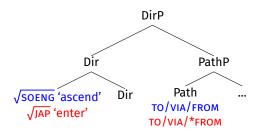
Deictic element as special realizations of Path

- πP defines a region in space defined wrt the speaker through [±author] feature
- (16) a. To $\leftrightarrow \Re lai^4$ 'come' / [$_{PathP} = [_{\pi P} \pi_{[+author]} ...]$]
 - b. TO \leftrightarrow 去 heoi³ 'go' / [$_{PathP}$ $_{-}$ [$_{\pi P}$ $\pi_{[-author]}$...]]
 - c. $\tau o \leftrightarrow \emptyset$ (elsewhere condition)
 - π P may optionally take PlaceP as a complement; when it does, π acts as a function that restricts the region specified by PlaceP wrt the speaker



Introduction

Dir as the adjunction site for directional roots



• Dir requires a PathP complement

Introduction

- It acts as function that picks out a particular set of paths (Svenonius 2010, Troberg 2019)
- Dir is the site of adjunction of Non-deictic roots
- Non-deictic roots introduce selectional restrictions that give rise to the range of possible interpretations of locative arguments associated with Non-deictic elements

J. R. Leung (Toronto) CLA 2023 May 31 – June 2, 2023 28 / 47

Accounting for transitivity

Introduction

- Dir (which houses Non-deictic roots) and Path are both categorizing heads for P: require complement containing locative argument (Svenonius 2007) and disallow stranding (Lam 2013)
- \bullet πP satisifes PathP's requirement, giving the façade of allowing locative omission and stranding



Manner

- (17) a. 阿明行咗上去。

 aa³-ming⁴ haang⁴ zo² soeng⁵
 - aa³-ming⁴ haang⁴ zo² soeng⁵ heoi³.

 ah-Ming walk PFV ascend go
 'Ming went up by walking.'
 - b. 阿明上咗去。

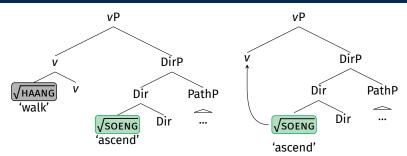
 aa³-ming⁴ soeng⁵ zo² heoi³.

 ah-Ming ascend PFV go

 'Ming went up.'



Manner: adjunction to v



- Manner roots may adjoin to v to form the main verb of the clause
- No Manner root: head closest to v moves to v (Hale & Keyser 2002, Sybesma 2017), "recategorizing" the directional element into a verb → permitting stranding and taking aspectual marking
- Requirement of locative complement is kept, which accounts for the unnaturalness of omission of the locative argument

31 / 47

J. R. Leung (Toronto) CLA 2023 May 31 – June 2, 2023

Example

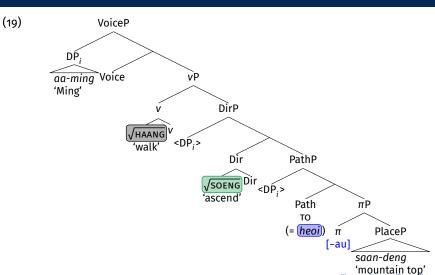
(18) 阿明行咗上去山頂。

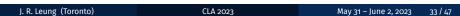
aa³-ming⁴ haang⁴ zo² soeng⁵ heoi³ saan¹ deng².

ah-Ming walk PFV ascend go mountain top
'Ming walked up there to the top of the mountain.'



Derivation





Conclusion

- Main proposal: Deixis = Vector + special Ground (Talmy 2000, Matsumoto & Kawachi 2020) is not only semantic, but also morphosyntactic in Cantonese.
- Non-deictic elements specify particular sets of vectors, allowing co-occurrence of Non-deictic and Deictic.
- Challenges existing views on directional elements in Cantonese (and other Chinese languages), which often treat them as inherently verbal and lexical (Matthews 2006, Paul 2022).
- Further work is needed to develop a typological account of deictic directionals.



J. R. Leung (Toronto)

References I

- Cheung, Samuel Hung-nin. 2007. 香港粵語語法的研究 Xiānggǎng Yuèyǔ yǔfǎ de yánjiū [A grammar of Cantonese as spoken in Hong Kong]. Revised edition. Hong Kong: Chinese University of Hong Kong.
- Hale, Ken & Samuel Jay Keyser. 2002. Prolegomenon to a theory of argument structure. (Linguistic Inquiry Monographs 39). Cambridge, MA: MIT Press.
- Harbour, Daniel. 2016. Impossible persons. (Linguistic Inquiry Monograph 74). Cambridge, MA: MIT Press.
- Hu, Xuhui. 2022. Same root, different categories: Encoding direction in Chinese. Linguistic Inquiry 53(1). 41–85.
- Jackendoff, Ray. 1983. Semantics and cognition. (Current Studies in Linguistics Series 8). Cambridge, MA: MIT Press.
- Lam, Chi Fung. 2013. The cartography of spatial adpositional phrases in Mandarin and Cantonese. Venice: Università Ca' Foscari Venezia dissertation.
- Lamarre, Christine. 2008. The linguistic categorization of deictic direction in Chinese—with reference to Japanese. In Dan Xu (ed.), Space in languages of China: Cross-linguistic, synchronic and diachronic perspectives, 69–97. New York: Springer.
- Matsumoto, Yo & Kazuhiro Kawachi. 2020. Motion event descriptions in broader perspective. In Yo Matsumoto & Kazuhiro Kawachi (eds.), *Broader perspectives on motion event descriptions* (Human Cognitive Processing 69), 1–22. Amsterdam: John Benjamins Publishing Company.
- Matthews, Stephen. 2006. On serial verb constructions in Cantonese. In Alexandra Y. Aikhenvald & R. M. W. Dixon (eds.), Serial verb constructions: A cross-linguistic typology (Explorations in Linguistic Typology 2). Oxford: Oxford University Press.

References II

- Paul, Waltraud. 2022. SVCs in disguise: the so-called "directional verb compounds" in Mandarin Chinese. In Andrew Simpson (ed.), New explorations in Chinese theoretical syntax: Studies in honor of Yen-Hui Audrey Li (Linguistik Aktuell/Linguistics Today 272), 133–162. Amsterdam: John Benjamins Publishing Company.
- Svenonius, Peter. 2007. Adpositions, particles and the arguments they introduce. In Eric J. Reuland, Tanmoy Bhattacharya & Giorgos Spathas (eds.), Argument structure (Linguistik Aktuell/Linguistics Today 108), 63–103. Amsterdam: John Benjamins Publishing Company.
- Svenonius, Peter. 2010. Spatial P in English. In Guglielmo Cinque & Luigi Rizzi (eds.), Mapping spatial PPs, 127–160. New York: Oxford University Press.
- Sybesma, Rint. 2017. Aspect, inner. In Rint Sybesma, Wolfgang Behr, Yueguo Gu, Zev Handel, C.-T. James Huang & James Myers (eds.), Encyclopedia of Chinese language and linguistics, vol. 1, 186–193. Leiden: Brill.
- Talmy, Leonard. 2000. Toward a cognitive semantics. Vol. 2. Cambridge, MA: MIT Press.
- Troberg, Michelle. 2019. Verb particles in Medieval French: A syntactic account. In Going Romance 33. November 28-29, University of Leiden.
- Yiu, Carine Yuk-man. 2013. Directional verbs in Cantonese: A typological and historical study. Language and Linguistics 14(3). 511–569.



36 / 47

J. R. Leung (Toronto) CLA 2023 May 31 – June 2, 2023

Thanks to...

Introduction

- Professors M. Cristina Cuervo, Guillaume Thomas, John Whitman, Michelle Troberg;
- audience at previous presentations of different parts of this work (University of Toronto Syntax Project, Workshop on Cantonese);
- and you for your attention!



J. R. Leung (Toronto)

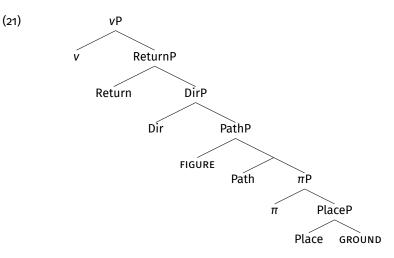
Return

Maximally:

- Manner (of motion): 行 haang4 'walk', 走 zau2 'run', etc.
- Return
- Non-deictic
- Deictic
- 阿明行咗返上去(山頂)。 (20)

aa³-ming⁴ (haang⁴) zo² (faan¹) soenq⁵ heoi³ (saan¹ deng2). ah-Ming walk PFV return ascend go mountain top 'Ming walked back up there (to the top of the mountain).'

Proposed analysis (with Return)





J. R. Leung (Toronto) CLA 2023 May 31 – June 2, 2023 39 / 47

(22) a. 我行咗(返)上水。

- . . .
- ngo⁵ (haang⁴) zo² (faan¹) (soeng⁵) seo
- 1SG walk PFV return ascend water
- 'I walked (back) up from the water.'
- b. 我走緊(返)上斜路。

[route]

[source]

- ngo⁵ zau² gan² (faan¹) soeng⁵ ce³-lou²

 1SG run PROG return ascend steep-road
 - 'I am running (back) up the ramp.'

[goal]

40 / 47

May 31 - June 2, 2023

- c. 我爬咗(返)上山頂。
 ngo⁵ paa⁴ zo² (faan¹) soeng⁵ saan¹-deng²
 - 1sg climb PFV return ascend mountain-top

'I climbed (back) up to the top of the mountain' , (a) , (b) , (b) , (c) , (c)

J. R. Leung (Toronto) CLA 2023

Interpretation can be ambiguous

我想撞出多倫多。 (23)

ngo⁵ soeng² (zaa¹) (ceot¹) do¹leon⁴do¹ want drive exit 1SG Toronto

'I want to drive out to Toronto.' (goal) / 'I want to drive out of Toronto.' (source)



Other types of DMCs

(24) a. 個波轆咗返出去(球場)。

[non-agentive]

qo³ bo¹ luk¹ zo² faan¹ ceot¹ heoi³ (kau⁴-coeng⁴). CLF ball roll PFV return exit go ball-field

'The ball rolled back out [to a place distinct from the speaker's location] (to the soccer field).

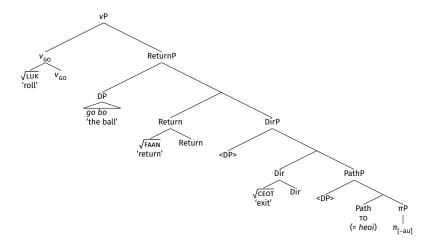
阿明轆咗個波返出去(球場)。 h.

[agentive]

aa³-ming⁴ luk¹ zo² qo³ bo¹ faan¹ ceot¹ heoi³ (kau⁴-coeng⁴). ah-Ming roll PFV CLF ball return exit go ball-field 'Ming rolled the ball back out [to a place distinct from the speaker's location (to the soccer field).

Non-agentive DMC

(25)



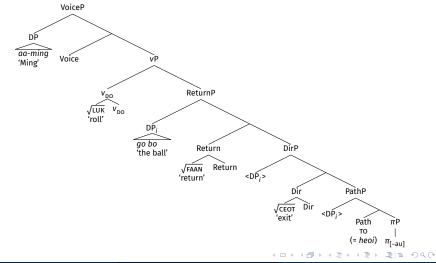


43 / 47

J. R. Leung (Toronto) CLA 2023 May 31 - June 2, 2023 (26)

Agentive DMC





J. R. Leung (Toronto) CLA 2023

Property	Non-agentive	Self-agentive	Agentive
Flavour of <i>v</i>	V _{GO}	V _{GO}	V _{DO}
VoiceP present?	No	Yes	Yes
Position of figure	Spec below <i>v</i> → Spec,TP	Spec below <i>v</i> → Spec,VoiceP → Spec,TP	Spec below v
Position of agent	N/A	Same as figure	Spec,VoiceP → Spec,TP

Mandarin

• In Mandarin, deictic directional elements sometimes do not appear to be low (Hu 2022).

(27) a. 張三拿出了很多書**來**。

[Mandarin]

Zhāng Sān ná chū le hěn duō shū **lái**. Zhang San take exit PFV very many book come 'San Zhang took many books out.' (adapted from Hu 2022: 62)

b. *張三攞出咗好多書**嚟**。

[Cantonese]

zoeng¹ saam¹ lo² ceot¹ zo² hou² do¹ syu¹ **lai⁴**. Cheung Sam take exit PFV very many book come Intended: 'Sam Cheung took many books out.'

c. 張三攞咗好多書出**嚟**。

[Cantonese]

zoeng¹ saam¹ lo² zo² hou² do¹ syu¹ ceot¹ **lai⁴**. Cheung Sam take PFV very many book exit come 'Sam Cheung took many books out.'

J. R. Leung (Toronto) CLA 2023 May 31 – June 2, 2023 46 / 47

Abbreviations

1 first person
CLF classifier
EXP experiential
GE nominal linker 嘅 ge³

PFV perfective PROG progressive SG singular