Agreeing with “only” in Cantonese

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at The 47th annual Penn Linguistics Conference (PLC-47)
University of Pennsylvania
March 18-19, 2023

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*Acknowledgment: A portion of this work has been presented at NACCL-34 (IUB, 2022), LSHK-ARF (HKBU, 2022), LFRG (MIT, 2023). I am particularly indebted to my advisor Veneeta Dayal. For discussions, I thank Paul Law, Maggie Lee, Tommy Lee, Peppina Po-lun Lee, mitcho, Sze-Wing Tang, Hedde Zeijlstra, and the audience in the above occasions. For judgment, I thank Tommy, Peppina, Maggie, Ka-Wing Chan, Sheila Shu-Laam Chan, Jonathan Lee, and Carmen Kin Man Tang for Cantonese; Yuyang Liu and Irene Yi for Mandarin; and Nguyen Thi Hong Quy for Vietnamese. All the errors are of course my own responsibilities.
1 Introduction

Doubling of exclusive particles (also called ‘only’ concord), literally ‘John only bought only lamb’, is extensively found in natural languages:

(1) A non-exhaustive list of languages with exclusive particle doubling
   a. Dutch (Barbiers 2014)
   b. German (Hole 2015; J. Bayer 2020)
   c. Hindi (Bajaj 2016)
   e. Mandarin Chinese (Hole 2017; Sun 2021)
   f. Vietnamese (Hole 2013, 2017; Erlewine 2017)

→ poses a challenge for compositionality since both particles associate with the same focus, but apparently only one particle is interpreted as the exclusive operator.

Similar phenomena have been attested for other quantifiers, the most notable one being negative concord (Labov 1972; Zanuttini 1991; Zeijlstra 2004), among others including modal concord (Geurts and Huitink 2006; Zeijlstra 2007), distributive concord (Oh 2006; Cable 2014; Rushiti 2019), wh-concord (Kratzer 2005; Kinjo and Oseki 2016), existential concord (Kratzer and Shimoyama 2002; Kratzer 2005), and universal concord (Yip 2022, cf. Dong 2009; C.-y. E. Tsai 2015).

The prevailing approach for “only” doubling is the operator-particle analysis (Y. Lee 2004, 2005; Quek and Hirsch 2017; Sun 2021, i.a.):\footnote{See also Law (2004) and P. P.-l. Lee (2019), who alluded to a multiple-’only’ analysis in Cantonese, and Hole (2017), who proposed a scalar analysis on adfocus particles in Vietnamese and Mandarin (but see Sun 2021 for counter-arguments).} One particle as a (i) semantically vacuous concord marker that (ii) establishes a syntactic dependency with an exclusive operator (may be null or realized as the other particle).

(2) $\left[TP \; \text{Subj} \; \textbf{Operator-ONLY}_{[\text{Vonly}0]} \; \text{vP} \; \textbf{V}_{[\text{Vonly}(-)]} \; \text{DP}_{[\text{Focused element}]} \right]$]

Syntactic dependency: Agree (Quek and Hirsch 2017) and/or (C)overt movement (S. Bayer 1996; Y. Lee 2005; Barbiers 2014; Erlewine and Kotek 2018; Sun 2021)

A gap in argumentation

However, the operator-particle approach is a syntactic solution to an interface problem motivated largely by semantic considerations.

There is inadequate recruitment of syntactic evidence, in particular for Agree. Most of the arguments are based on compositionality and scopal arguments (split scope readings, unexpected...
scope in VP ellipsis) (e.g. Y. Lee 2005; Quek and Hirsch 2017), with notable exception like islands in Erlewine and Kotek (2018) for covert movement for focus association.

**An empirical gap**
Moreover, little attention has been paid to exclusive sentence-final particles (SFPs) apart from adfocus particles, such as zaa3 in Cantonese. It can be doubled with adverbial zinghai 'only':

(3) Doubling of exclusive particles in Cantonese
阿明淨係買咗羊肉畀阿芬昨
Aaming zinghai maai-zo joengjukF bei Aafan zaa3 (Cantonese)
‘Ming only bought Fan lamb (but not beef or pork).’

Also found in Mandarin Chinese (e.g. Erlewine 2011) and Vietnamese (e.g. Hole 2013):

(4) 張三只買了牛肉而已
Zhangsan zhi mai-le niurouF eryi (Mandarin)
‘Zhangsan only bought beef.’

(5) Nam chỉ ăn [thịt bò]F thôi (Vietnamese)
‘Nam only eats beef.’

(6) Overview of the talk
a. The empirical focus is on an understudied case of doubling with ‘only’ SFPs in Cantonese.
b. I propose that zaa3 establishes a syntactic Agree relation with zinghai, rather than covert movement depenendcy.
c. I offer direct syntactic arguments from minimality and locality effects for the Agree account
➔ Ultimately strengthens the operator-particle approach, both theoretically (syntactic support) and empirically (covering both adfocus particles and SFPs)
d. I also discuss how the approach extends to Mandarin and Vietnamese ‘only’ SFPs

- **Road map**
  §2: “Only” doubling
  §3: Minimality & locality
  §4: Proposal
  §5: Extension
  §6: Concluding remarks
2 “Only” doubling in Cantonese

2.1 The core paradigm

Cantonese SFP zaa3 ‘sfp.only’ can co-occur with adverbial zinghai ‘only’ (Law 2004; P. P.-l. Lee 2019), yet yielding exactly the same truth conditions.

(7) Doubling of exclusive particles in Cantonese

\(\text{a. Aaming zinghai maa-i-zo joengjuk}_{F} \text{ bei Aafan. }\) (Adverbial particle)
\(\text{Ming only buy-perf lamb to Fan }\)
\(\text{‘Ming only bought Fan lamb (but not beef or pork).’}\)

\(\text{b. Aaming maa-i-zo joengjuk}_{F} \text{ bei Aafan zaa3 }\) (Sentence-final particle, SFP)
\(\text{Ming buy-perf lamb to Fan sfp.only }\)
\(\text{‘Ming only bought Fan lamb (but not beef or pork).’}\)

\(\text{c. Aaming zinghai maa-i-zo joengjuk}_{F} \text{ bei Aafan zaa3 }\) (Doubling)
\(\text{Ming only buy-perf lamb to Fan sfp.only }\)
\(\text{‘Ming only bought Fan lamb (but not beef or pork).’}\)

There is an exclusive operator in each sentence, including the singleton zaa3 cases - the exclusiveness is at-issue and can be directly dissented by (8), questioned, or negated.

(8) Can directly challenge the exclusiveness in (7a-c)

\(\text{B: M-hai. (Aaming zung maa-i-zo zyuju}k_{F} \text{ bei Aafan.) }\)
\(\text{no Ming also buy-perf pork to Fan }\)
\(\text{‘No. (Ming also bought Fan pork.)’}\)

The paradigm immediately gives rise to an apparent form-meaning mismatch, posing problems for compositionality:

- **DOUBLING**: zinghai and zaa3 cannot both be exclusive operators
  - The truth conditions of doubling cases remain the same (vs. a multiple-‘only’ reading)
- **OBLIGATORINESS**: Both zinghai and zaa3 should be exclusive operators
  - The singleton cases always convey exclusiveness
  - Put differently, both zinghai and zaa3 require the presence of ‘only’ (which may be null)
2.2  *Zaa3 ≠ exclusive operator*

There is *semantic* evidence that *zaa3* is not an exclusive operator. It lacks the ability to associate with a focus independently of *zinghai*. In other words, *zaa3* is always “parasitic” on *zinghai* in doubling cases.

**Case #1: focus outside *zinghai*’s scope**

(9) Focus association with a focus outside *zinghai*’s scope

a. *z[aa ... F1 ... [zinghai ... F2]]

b. [zaa ... F1 ... [zinghai ... F2]]

When *zinghai* follows the subject, the **subject focus** is not c-commanded by it and is outside of its scope. *Zaa3* cannot associate with the subject focus:

(10) *Zaa3* fails to associate with a different focus outside *zinghai*’s scope

a. Q: Who only reads Chinese books?

b. A: *Aaming*₇₇ *zinghai*₉₉ taai zungmansyu₇₉₇₇ *zaa3*₉₉ (, Aafan dou hai.)

Ming only read Chinese.book sfp.only Fan also be

‘Ming only read Chinese books. (Fan as well.)’

BUT NOT: ‘only Ming only read Chinese books.’

To convey the intended reading, fronting with adfocus *dak* is required:

(11) *Dak* *Aaming*₇₇ *zinghai* maai-zo [joengjuk]₇₉₇₇.

‘Only Ming bought only lamb.’

i.e. ‘Ming the only person who only bought lamb (and other people bought pork/beef in addition to lamb)’

**Case #2: multiple foci within *zinghai*’s scope**

(12) Focus association with another focus in *zinghai*’s scope

a. *z[aa ... [zinghai ... F1 ... F2]]

b. [zaa ... [zinghai ... F1 ... F2]]

Consider the multiple-focus case in (13), where both objects are stressed and focused. *Zaa3* cannot associates just with the **direct object**, with *zinghai* associating with another one.
Multiple-focus on the direct object and the indirect object: only can be uttered in (14c)

a. Aaming **zinghai** sung-gwo **JOENGJUK** bei **AAFAN** **zaa**.
   Ming only give-EXP lamb DAT Fan sfp.only
   ‘Fan is the only one who Ming gave lamb to; lamb is the only thing that Ming gave to Fan.’
   \(\neq\) ‘Ming bought only lamb for only Fan.’ (in English)
   \(\neq\) ‘Fan is the only person who Ming gave only lamb, i.e. Ming also gave lamb along with something else (e.g. pork) for someone else (e.g. Lok)’

b. A: \((\neg \phi_{F,p} \land \neg \phi_{F,b}) \land \neg(\phi_{L,l} \land \neg \phi_{T,l})\)

The assertion can only be true in (14c), but not (14a) and (14b). **Zaa3** does not associate with the direct object separately and yield a multiple-‘only’ reading. Rather, **zinghai** associates with *both* foci, resulting a reading where \(<Fan,lamb>\) is the only pair that satisfies the relation ‘Ming gave x to y’.

(14) a. Ming bought lamb, pork & beef for Fan; but he bought nothing for Lok & Ting. \(\sim (13) = F\)
   b. Ming bought lamb for Fan; lamb, pork & beef for Lok & Ting. \(\sim (13) = F\)
   c. **Ming bought lamb for Fan; pork & beef for Lok & Ting.** \(\sim (13) = T\)

To convey the genuine ‘multiple only’ reading, fronting with adfocus dak is again required:

(15) **Dak**\(_1\) [**Aafan**\(_1\)]\(_F_1\) Aaming **zinghai**\(_2\) maai-gwo [joengjuk\(_2\)] be **koei**.
   only Fan Ming only buy-EXP lamb DAT 3SG
   ‘Fan is the only person who Ming bought only lamb for.’ = T in (14b)
   (i.e. Ming bought lamb for Fan; lamb, pork & beef for Lok & Ting.)

We now have seen empirical evidence from semantics supporting that **zaa3** is not an exclusive operator. This resolves the problem of **doubling**. However, the problem of **obligatoriness** remains: why do singleton **zaa3** cases also convey an ‘only’ reading?

(16) Possible hypotheses (compatible with each other)
   a. **Semantic** solution: **Zaa3**’s meaning requires a (c)overt exclusive operator under its scope \(\sim\) not discussed today, see my **LFRG handout**
   b. **Syntactic** solution: **Zaa3** establishes a **syntactic dependency** with a (c)overt ‘only’, which denotes an exclusive operator \(\sim\) **Let’s examine this possibility!**
3  Diagnosing syntactic dependencies

Syntactic operations are subject to two structural constraints:

- (i) **Minimality**: no elements of the same type with Probe & Goal may intervene between them
- (ii) **Locality**: a certain domain is opaque to syntactic operations from the outside.
  
  - Agree: Clauses (specifically phases)
  - Movement: Islands

3.1 Minimality effects

I adopt Rizzi (2001, 2004)’s feature-based Relativized Minimality (RM) to formulate minimality. For Rizzi, quantificational elements like focus operators ‘only’, negation, quantificational adverbs (i.e. A-quantifiers like ‘often’) and wh-operators carry the superfeature \([\text{Qu}]\).

\[
\text{Feature-based Relativized Minimality (RM) (Rizzi 2001, 2004)}
\]

\[
\begin{array}{cccccc}
X & \ldots & Z & \ldots & Y \\
& [\text{Qu}] & \ldots & [\text{Qu}] & \ldots & [\text{Qu}] \\
\end{array}
\]

The set of \([\text{Qu}]\) interveners for quantificational dependency in Cantonese (also Mandarin Chinese). They are independently motivated by their minimality effects on two syntactic dependencies, A-not-A questions and why-questions (Wu 1997; Law 2001; Soh 2005; Tsai and Yang 2015).

\[
\text{Elements with \([\text{Qu}]\)-features in Chinese (Cantonese and Mandarin)}
\]

\begin{enumerate}
  \item Focus operators, e.g. ‘only’ (Soh 2005)
  \item Negation (Soh 2005)
  \item Modals, e.g. ‘must’ (Tsai and Yang 2015)
  \item Quantifiers, e.g. ‘no one’ (Wu 1997; Law 2001)
  \item Adverbs of quantification, e.g. ‘often’ (Law 2001; Soh 2005)
\end{enumerate}

#1: Negation

The aspectual negation, *mou ‘didn’t’*, triggers minimality effects in doubling when taking wide scope over *zinghai*. For (19b) to be grammatical, *zaa3* must not be present.

\[
\text{Minimality effects of negation in doubling}
\]

\begin{enumerate}
  \item Scenario: Fan said Ming didn’t buy beef for tonight’s dinner. You know that Ming bought beef and pork but not lamb, so you say: ‘no, ...’
    \[
    \ldots \text{Aaming } \text{zinghai } \text{mou } \text{maai } [\text{joengjuk}]_f \text{ (zaa3).} \quad \text{(only > } \neg) \\
    \text{Ming } \text{only } \text{NEG.PFV } \text{buy } \text{lamb } \text{SFP.only}
    \]
    ‘Ming only did not buy lamb.’ (but not beef - Ming did buy beef)
\end{enumerate}
b. Scenario: Fan said Ming only bought lamb for tonight’s dinner. You know that Ming did buy beef as well, so you say: ‘no,...’

... Aaming mou zinghai maai [joengjuk]F (*zaa3). (¬ > only)

Ming NEG.PFV only buy lamb SFP.only

‘Ming did not only buy lamb.’ (he bought beef as well)

As schematized in (20), mou is an intervener between zinghai and zaa3, disrupting their dependency.

(20) a. [CP zaa ... [AspP mou ‘NEG.PFV’[QU:NEG] zinghai ... ...]

b. *[CP zaa ... [AspP mou ‘NEG.PFV’[QU:NEG] mou ‘NEG.PFV’[QU:NEG] zinghai ... ... [EXCL ...]]

Note that the same effects are found in singleton zaa3 cases, indicating the presence of the covert exclusive operator (labeled as EXCL) with which zaa3 establishes a syntactic dependency.

(21) Minimality effects of negation in singleton zaa3 cases

a. ... Aaming mou maai [joengjuk]F zaa3. (only > ¬, *¬ > only)

Ming NEG.PFV buy lamb SFP.only

ONLY: ‘Ming only did not buy lamb.’ (but not beef - Ming did buy beef)

BUT NOT: ‘Ming did not only buy lamb.’ (he bought beef as well)

b. *[CP zaa ... [AspP mou ‘NEG.PFV’[QU:NEG] zaa3. [EXCL ...]]

The sentential negation m-hai ‘(lit.) not-be’ is syntactically higher than zaa3 and does not trigger minimality effects.

(22) Lack of minimality effects with sentential negation

a. Scenario: same as (19b)

... Aaming m-hai zinghai maai [joengjuk]F (zaa3). (¬ > only)

Ming NEG-COP only buy lamb SFP.only

‘It is not the case that Ming only bought lamb.’ (he bought beef as well)

b. [CP m-hai ‘NEG-COP’[QU:NEG] zaa3. [TP zinghai ...]]
#2: Modals

Deontic modals, when taking wide scope over *zinghai*, also triggers minimality effects in doubling. The effects go away without *zaa3*.

(23) **Minimality effects of deontic modals in doubling**

a. Aaming [i. *zinghai* hoji [ii. *zinghai* sik [sou]F (zaa3), (only > ♦Deo, *◦Deo > only)]

Ming only may only eat veggie sfp.only
i. ‘Ming can eat only vegetable.’ (Ming cannot eat meat.)
ii. ‘It’s okay for Ming to eat only vegetable.’ (Ming may also eat meat.)

b. In (i): [CP zaa ... [TP *zinghai ... [Modal_{Deo} [QU:MOD]] ...]

c. In (ii): *[CP zaa ... [TP ... Modal_{Deo} [QU:MOD]] ... [zinghai ....

The minimality effects, again, are found in singleton *zaa3* cases, suggesting that *zaa3* establish a dependency with some covert ‘only’ EXCL.

(24) **Minimality effects of deontic modals in singleton *zaa3* cases**


Ming may buy lamb sfp.only

ONLY: ‘Ming may buy *lamb* only.’ (Ming cannot buy pork and beef.)
BUT NOT: ‘It’s okay for Ming to buy *lamb* only.’ (Ming may also buy pork and beef.)

Epistemic modals, however, allow *zaa3* to be doubled with the narrow-scope *zinghai*. This can be explained if epistemic modals are higher than deontic modals (W.-T. D. Tsai 2015). It occupies a position higher than *zaa3* and does not serve as an intervener.

(25) **Lack of minimality effects with epistemic modals**


Ming only be.possible only like Fan sfp.only
i. Higher *zinghai*: ‘It is only possible that Ming likes Fan.’
ii. Lower *zinghai*: ‘It is possible that Ming likes Fan only.’

b. In (i): [CP zaa ... [zinghai ... [Modal_{Epi} [QU:MOD]] ... [TP ...

c. In (ii): *[CP Modal_{Epi} [QU:MOD]] ... [zaa ... [TP zinghai ....
#3: Quantifiers

Quantifiers, such as negative quantifiers, trigger the same minimality effects in both doubling and singleton *zaa3* cases.

(26) Minimality effects of negative quantifier subjects in doubling

a. Scenario: You and Fan are debating whether they should submit only one abstract to a conference if the host allows two submissions. Fan thinks that they should submit only one, and you say:

```
[ Moujan [ zinghai gaau jatF bin zaakjiu ]] (*zaa3).
```

No one only submit one CL abstract sfp.only

‘No one submits one abstract.’ (We always submit two when it is allowed.)

b. *

```
[CP zaa ... [TP 'no one'](QU:NEG) ... [ zinghai ....
```

(27) Minimality effects of negative quantifier subjects in singleton *zaa3* cases

```
[ Moujan [gaau jatF bin zaakjiu]] zaa3.
```

No one only submit one CL abstract Int: ‘No one submits one abstract.’ (We always submit two when it is allowed.)

Other quantifiers, such as *housiu* ‘few’, also induce minimality effects to *zaa3*.

(28) 

```
[Housiu jan [ zinghai sik faanF m-sik sung]] (*zaa3).
```

very.few person only eat rice not-eat dish sfp.only

‘Very few people only eat (plain) rice without dish.’

#4: Quantificational adverbs

Quantificational adverbs also pattern with the above qunaitficational elements and trigger minimality effects to *zaa3*.

(29) Minimality effects of quantificational adverbs in doubling

a. Scenario: You and Fan are discussing Ming being a picky eater. Fan wonders whether Ming does not eat tomato. You say:

```
[Aaming sengjat dou [ zinghai sik-zing hunglobakF ]] (*zaa3).
```

Ming always dou only eat-leave carrot sfp.only

‘Ming always only left carrot uneaten.’ (But not tomato.)

b. *

```
[CP zaa ... [TP ... 'always'](QU:Y) ... [ zinghai ....
```


(30) Minimality effects of quantificational adverbs in singleton zaa3 cases

* [ Aaming sengjat dou [sik-zing hunglobakₚ]] zaa₃.
Ming always dou eat-leave carrot sfp.only
Int.: ‘Ming always only left carrot uneaten.’ (But not tomato.)

<table>
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<tr>
<th>Intervening elements</th>
<th>With [QU]-feature?</th>
<th>Minimality effects?</th>
<th>Examples</th>
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<tr>
<td>Focus operators</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Negation</td>
<td>YES</td>
<td>✅</td>
<td>(19)</td>
</tr>
<tr>
<td>Modals</td>
<td>YES</td>
<td>✅</td>
<td>(23)</td>
</tr>
<tr>
<td>Quantifiers</td>
<td>YES</td>
<td>✅</td>
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</tr>
<tr>
<td>Q-adv</td>
<td>YES</td>
<td>✅</td>
<td>(29)</td>
</tr>
</tbody>
</table>

Table 1: Minimality effects in “only” doubling in Cantonese

3.2 Locality effects

We can also examine whether the dependency zaa₃ and zinghai will be blocked by some opaque domain. For Agree, the domain is a phase. For movement, the domain is a syntactic island, as standardly assumed (e.g. Ross 1967).

(31) Phase Impenetrability Condition (PIC) (Chomsky 2000)

\[ ZP \ldots Z [XP \ldots \alpha [H \ YP]]; \]
where Z and H are phase heads, and YP is visible to operations in HP but not ZP.

Phases

Zaa₃ cannot be doubled with the embedded zinghai across a control clause boundary under ‘force’. No such restriction is found for attitude verb like ‘know’, which takes a finite clause. The scopal interpretations are the same in singleton zaa₃ cases.

(32) Asymmetry between control clauses and finite clauses in locality effects

cl. teacher only force Ming only take French sfp.only
Only: ‘The teacher only forces Ming to take French.’ (but does not care about German.)
But not: ‘The teacher forces Ming to only take French.’ (no German.)

(only > force, *force > only)
b. Go lousy (zinghai) zidou Aaming (zinghai) duk-zo [faatman]_{F} zaa.
   CL teacher only know Ming only take-PERF French sfp.only

Higher zinghai: ‘The teacher only knows that Ming took French.’
Lower zinghai: ‘The teacher knows that Ming only took French.’

(only > know, know > only)

Let us assume with Huang (2022) that verbs like ‘force’ take a smaller clause (e.g. TP) and verbs like ‘know’ take a bigger clause (e.g. CP). Hence, only ‘know’ can embed zaa3, but not ‘force’.

→ ‘force’: zinghai is embedded in the complement of a lower v*P phase, which is not accessible to (matrix) zaa in a higher CP phase. Agree is not possible due to the PIC, and thus the ban on doubling.

→ ‘know’: both zaa and zinghai may be embedded in ‘know’. They are in the same phase, and thus the Agree relation can hold. Doubling is then allowed with relevant scope readings.

(33) PIC violations derive the scope restriction
   a. *\[CP zaa ... \[v^*P ... ‘force’ \[TP zinghai/EXCL ....
   b. ... \[v^*P ... ‘know’ \[CP zaa[\{u\QU/EXCL] ... [zinghai/EXCL ...

We can create a configuration to prevent zaa3 being embedded. Adding a matrix adverbial mounoi enforces zaa3 to be in the matrix clause. Zaa3 cannot be doubled with the narrow-scope zinghai.

(34) Ngo (zinghai) \[v^*P zidou \[CP keoi (*zinghai) sik sou_{F} ] mounoi zaa3
   1SG only know 3SG only eat veggie short.time SFP.only

ONLY: ‘I only learnt [that s/he eats veggie] recently. (I already knew if s/he eats other food)’
BUT NOT: *‘I learnt [that he only eats veggie] recently.’

(only > know, *know > only)

Islands

Moving on to islands, doubling is disallowed across an island with phasal boundaries, such as complex DP islands. Zaa3 cannot be doubled with zinghai or a null excl outside the island, but not the island internal zinghai, as evidenced by the reading below.
Doubling banned across complex DP islands

\[(\text{Zinghai}) \quad \text{[DP gogo [CP=RC zinghai dou bo ge] jan lai-zo zaa3].} \]

only that only bet ball mod person come-PFV sfp.only

(\# [[gogo zinghai dou maa ge] jan] dou lai-zo)

that only bet horse mod person also come-PFV

ONLY: ‘Only the guy who only does soccer betting came. (\#The guy who only does horse racing betting also came.)’

BUT NOT: ‘The guy who only does soccer betting came.’

This is however not informative of the nature of the dependency: the ban could be due to either PIC violation or island violation.

Nevertheless, the coordinated VP in (36) allows zaa3 to be doubled with the ‘only’ adverbs within the VPs. To rule out ATB movement, two different ‘only’ adverbs are used: zinghai and zaaihai. We can then conclude the dependency between zaa3 and zinghai/zaaihai is not island sensitive.

Doubling allowed across coordinated VP

\[\text{a. keoi camjat } \quad \text{[VP zinghai sik gaijikF] tung [VP zaaihai jam} \]

3sg yesterday only eat chicken.wing and only drink

holokF ] ] zaa3

coke sfp.only

‘S/he yesterday only ate chicken wings and only drank coke.’

\[\text{b. } \text{[CP zaa } \quad \text{[&P [VP zinghai ...] & [[VP zaaihai ...] ] ]} \]

Domains | Phase | Island | Doubling | Examples
--- | --- | --- | --- | ---
\(\nu^*P\) | YES | NO | \(\times\) | (32)
CP | YES | NO | \(\times\) | (34)
Complex DP island | YES | YES | \(\times\) | (35)
Coordinated VP edge | NO | YES | \(\checkmark\) | (36)

Table 2: Locality effects in “only” doubling in Cantonese
4 Proposal

4.1 “Only” doubling as agreement

Extending the operator-particle analysis (e.g. Quek and Hirsch 2017; Erlewine 2020; Sun 2021) to doubling with SFPs, I propose that zaa carries an uninterpretable [u\text{EXCL}] feature and must Agree with an exclusive operator carrying the interpretable counterpart [i\text{EXCL}], realized as zinghai or remain unpronounced as EXCL (cf. ONLY in Quek and Hirsch 2017; EXH in Chierchia 2006).

(37) The Agree relation between zaa and exclusive operators

A morphological support

Notice that the [EXCL] features have a morphological correlate: the onset z- is shared by exclusive morphemes in Cantonese:

(38) a. Exclusive SFPs: zaa3, ze1 and their variants (Sybesma 2007)
    b. Exclusive adverbs 'only': zing6, zaai1 and zi2

Syntactic arguments from minimality and locality

The proposal receives solid support from both syntactic minimality and locality effects. Minimality: The Agree relation with [EXCL], a quantificational feature, is subject to intervention by the elements in the same type [Qu].

(39) *\[CP \text{zaa}_{i\text{EXCL}} \ldots [TP \ldots \text{Neg/Mod/Quantifier/Q-adv}_{\text{Qu}} \ldots [\text{zinghai}_{i\text{EXCL}} \ldots]

3. Except the verb/verbal suffix dak I whose origin is 'acquire', cf. Tang:2003
Locality: The Agree relation is also subject to PIC and cannot apply across **phases**, but crucially may apply across an **non-phasal island** boundary. This sets Agree apart from (c)overt movement.

\[(40) \quad *[CP \quad \text{zaa} \quad \underline{u} \quad \text{QU:EXCL} \quad \ldots \quad \text{CP/v} \quad \text{P=phase} \quad \ldots \quad \text{zinghai} \quad \underline{u} \quad \text{QU:EXCL} \quad \ldots]
\]

### 4.2 On the syntax-semantics interface

The syntactic Agree relation allows us to resolve the compositionality problem by accounting for **Obligatoriness**:

\[(41) \quad \text{Explaining obligatory exclusiveness in singleton zaa cases}
\]
\[\text{Zaa must agree with a null EXCL to check the } [u\text{EXCL}] \text{ feature, which is the source of exclusiveness.}
\]
\[\text{It also explains Doubling:}
\]

\[(42) \quad \text{Explaining doubling cases}
\]
\[\text{The } [u\text{EXCL}] \text{ on zaa3 is uninterpretable and will be deleted after Agree. Hence, zaa3 will not be mapped onto an exclusive operator, and only zinghai is the operator in doubling.}
\]

The Agree approach does **not** stipulate zaa3 to be semantically vacuous. Such stipulation is conceptually implausible: unlike adfocus particles, which generally attach to and mark focused elements in surface syntax (but see Branan & Erlewine 2023 for mismatches), SFP zaa3 seems to play no role in exclusive focus if it were semantically inert.

I argue instead that SFP zaa3 has focus-sensitive semantic contribution. Specifically, it relates the focus alternative set (quantified by ‘only’) to the discourse: it requires the excluded alternatives to be contextually salient such that participants are aware of them.

\[(43) \quad \text{Contextual information: (non-)salience}
\]

a. [Scenario: You are a cashier in a meat market in the US. You just served a customer, and your colleague seems to be curious about what they bought. You say:]

\[\text{Go haak } \quad \text{(zinghai) maa-} \quad \text{joengju} \quad \text{F } \quad \underline{\#zaa} \quad \text{SFP.} \quad \text{only}
\]

‘The customer only bought lamb.’

b. [Scenario: Same with (a), except that beef is newly arrived and is really good today.]

\[\text{Go haak } \quad \text{(zinghai) maa-} \quad \text{joengju} \quad \underline{\#keoi} \quad \text{zung maai-maai zyujuk} \quad \text{F } \quad \underline{\#zaa} \quad \text{SFP.} \quad \text{only 3SG also buy-also pork}
\]

‘The customer only bought lamb.’ (#S/he also bought pork.)
For a compositional account, please see my LFRG handout.

Thus, the syntactic account thus has an extra merit in ensuring the scopal relation to be that zinghai is always in zaa’s scope so as to “feed” its semantics which looks for excluded alternatives.

(44) Feeding the semantics of zaa

To achieve (downward) Agree, the Probe zaa c-commands the Goal zinghai, and takes (i) the alternative set passed up by zinghai, (ii) the proposition returned by zinghai, which excludes and thus is inconsistent with the alternatives.

In this way, the syntactic structure is mapped neatly onto semantic interpretation.

5 Extension to Mandarin and Vietnamese

The same Agree account may extend to the ‘only’ SFPs in Mandarin and Vietnamese.

(45) Mandarin eryi as agreement

\[
\begin{array}{c}
[CP \ eryi_{[Q:EXCL]} ] \rightarrow [TP/vP \ ... \ [ zhi/EXCL_{[Q:EXCL]} ] \ ...
\end{array}
\]

(46) Vietnamese thỏi as agreement

\[
\begin{array}{c}
[CP \ thỏi_{[Q:EXCL]} ] \rightarrow [TP/vP \ ... \ [ \chi/EXCL_{[Q:EXCL]} ] \ ...
\end{array}
\]

No independent focus association

First, like zaa, eryi and thỏi cannot have focus association independent of the ‘only’ adverbs.

(47) ‘Only’ SFPs cannot associate with subject focus outside the scope of adverbial ‘only’

a. [Who only reads Chinese books?]

\[
\begin{array}{c}
\text{ZhangsanF} \quad \text{zhi du zhongwenshuF \ eryi} \quad \text{. (Lisi ye shi.)}
\end{array}
\]

Zhangsan only read Chinese.book SFP.only Lisi also be

‘ZHANGSAN only reads Chinese books. (Lisi as well.)’

NOT: ‘Only Zhangsan only reads Chinese books.’ (Mandarin)

b. \[
\begin{array}{c}
\text{NAMF} \quad \text{chi an thit boF \ thôi} \quad \text{.}
\end{array}
\]

Nam only eat beef SFP.only

‘NAM only eats BEEF (but not pork or lamb).’

NOT: ‘Only Nam only eats beef.’ (Vietnamese)
Minimality and locality effects

Second, *eryi* and *thôi* also exhibit similar minimality and locality effects, supporting an Agree Approach.

(48) The scope restriction (due to locality) in Mandarin

Laoshi [a. *zhi*]_{VP} bi Zhangsan [b. *zhi*]_{SFP} du DewenF] *eryi*
teacher only force Zhangsan only take German _sfp.only_

ONLY: ‘The teacher only forces him to take German. (and doesn’t care about French)’
BUT NOT: ‘The teacher forces him to only take German. (and no French)’

(49) The scope restriction (due to minimality) in Vietnamese

Nam [a. *chỉ*]_F không [b. *chỉ*]_SFP ăn [thịt bò]_F *thôi*
Nam only not only eat beef _sfp.only_

ONLY: ‘Nam only does not eat beef. (no beef)’
BUT NOT: ‘Nam not only eats beef. (beef and other meat)’

6 Concluding remarks

(50) Take home messages

a. “Only” doubling is **agreement**, at least for SFPs

   ➔ Strengthen the operator-particle approach, both **theoretically** (syntactic support) and **empirically** (covering both adfocus particles and SFPs)

b. We need **syntactic** arguments to justify a **syntactic** proposal, even though the proposal might have received (indirect) support from its semantic consequences

c. How about adfocus particles like *mởi* in Vietnamese? ...Stay tuned for WCCFL-41!
References


