# vP as a phase – evidence from Dagbani<sup>1</sup>

# Katharina Hartmann k.hartmann@lingua.uni-frankfurt.de 12.07.2022, Universität Potsdam

# 1. Introduction

- Phase theory (Chomsky 2000, 2001, 2008) establishes CP and vP as phases.
- There is a lot of evidence for cross-linguistic phasehood of CP. At the same time, evidence for vP as a phase (i) is less easy to find, (ii) appears to be language dependent.
- evidence for the cyclic nature of vP (e.g. Citko 2014, Gallego 2010, but see Keine & Zeijlstra 2022)
- intermediate pronunciation, e.g. ke stranding in Dinka (van Urk & Richards 2015: 128)
- (1) [CPYe ŋa1 ye [vP ke1 taak [CP cii Bol [vP ke1 [VP \_1 tiŋ]]]] is who HAB.SG PL think PRF.NS Bol.GEN PL see 'Who<sub>PL</sub> do you think Bol saw?'
- intermediate interpretation, e.g. intermediate reconstruction to vP edge (Fox 1999:174)
- (2) [Which of the papers that he<sub>i</sub> asked Ms. Brown<sub>j</sub> for] did every student<sub>i</sub> [ $\nu P \checkmark$  get her<sub>i</sub> to grade <u>\*</u>]
- intermediate licensing, e.g. Dinka, where preverbal position must be occupied (van Urk & Richards 2015: 122)
- (3) a. yêεn ce. [νP kìtáp [νP yien Ayén]] I PRF book give Ayen 'I gave Ayen a book.'
  b. Yeŋa1 cíi môc [νP 1 [νP 1 yiện kìtáp]] who PRF.NS man.GEN give book 'Who did the man give the book to?'
- evidence for a left periphery of the *v*P: topic phrases in Tagalog (Mursell 2021, Mursell & Tan 2019)

Aims of the talk: establish *v*P as a phase in Dagbani by

- (i) arguing for low focus phrases, hence a vP periphery;
- (ii) adding an argument of intermediate licensing at *v*P.
- Dagbani
  - Mabia language from the Niger Congo language family
  - spoken in Northern Ghana, 3.160.000 speakers (Wikipedia)

<sup>&</sup>lt;sup>1</sup> I thank the DFG for grant HA2343/1 supporting the research on the  $\nu$ P-periphery in the Mabia languages. For more information, see http://mabia-vp.com/tiki-index.php?page=Welcome!

# 2. Focus marking at the phasal peripheries

## 2.1 High focus projections

- Rizzi (1997): topic-focus system in the left periphery of the clause
- (4) a. Your book, you should give to Paul. topicb. YOUR BOOK, you should give to Paul. focus
- (5) Italian
   Credo que a Gianni, QUESTO, domani gli dovremmo dire.
   I.believe that to Gianni this tomorrow him should say
   ,I believe that to Gianni, THIS, tomorrow we should say.'
- (6) [ForceP [TopP [FocP [TopP [FinP]
- Aboh (1998): evidence from Gungbe for overt heads of focus projections, in support of Rizzi (1997)
- (7) *Gungbe* 
  - a. Séná xìá wémà lɔ́.
     S. read.PFV book DEF
     'Sena read the book.'
  - b. **Séná** wè xìá wémà ló. Sena FOC read.PFV book DEF 'SENA read the book.'
  - c. Wémà lò wè Séná xìá.
     book DEF FOC Sena read.PFV
     'Sena read THE BOOK.'
- Aboh's observation initiated a lot of research on similar phenomena, especially in African languages; cf. Hartmann & Zimmermann (2007) on Hausa, Schwarz (2007) on Kikuyu, Frascarelli & Puglielli (2007) on Somali, Abels & Muriungi (2008) on Kîîtharaka, Hartmann & Zimmermann (2012) on Bura, Amaechi & Georgi (2019) on Igbo, Hartmann (2013) on South Marghi etc.
- $(8) \quad [ForceP [TopP [FocP FOC [TopP [FinP ]$

# 2.2 Unmarked in situ focus

- Apart from ex situ focus, focus may be also be realized in situ.
- This insight is not very spectacular for intonation languages like German or English, where in situ focus is the norm.
- In intonation languages, situ focus is marked by the nuclear pitch accent, which may project (Selkirk 1995, Schwarzschild 1992).
- (9) John is watering his GARden.
  a. John is watering [DP his GARden]FOC
  b. John is [VP watering his GARden]FOC

• In many African languages, non-subject focus in questions and answers may also be expressed in situ, as shown by the following question-answer pair from Akan (Kwa), see Saah (1994).

| (10) | Akan |
|------|------|
|------|------|

| ex situ |
|---------|
|         |
| in situ |
|         |
|         |
|         |

- In situ focus shows canonical word order and often no further indications of focus (morphology, stress etc.), see (11) from Hausa (Jaggar 2001, Hartmann & Zimmermann 2007):
- (11) Hausa
  - Nairaa ashirin zaa ka A: biyaa in yaa yi makà. (HB 3.03) naira twenty FUT 2sg pay if 3sg do for.you 'It is TWENTY NAIRA that you will pay if he makes it for you.' biyaa shâ bìyar nèe. B: A'a, zân
    - no FUT.1SG pay fifteen PRT 'No, I will pay FIFTEEN.'
- Similar typological patterns are widespread across the languages of West Africa (e.g. Ameka 2010, Hartmann & Zimmermann 2007, 2012, Zimmermann & Onea 2011, Issah 2020, Bickel & Sonaiya 2000), and beyond.
- Unmarked focus represents a challenge to most focus theories due to the lack of a marked focus exponent.

# 2.3 The low IP-area: Belletti (2004)

| •    | <i>v</i> P is a phase with an articulated left periphery:   |                               |  |  |  |
|------|---|-------------------------------|--|--|--|
| (12) | [ForceP [TopP [FocP [TopP [FinP [IP   | Rizzi (1997)                  |  |  |  |
| (13) | $\dots \left[ \text{TopP} \left[ \text{FocusP} \left[ \text{TopP} \left[ \nu \mathbf{P} \ldots \right] \right] \right] \right]$ | Belletti (2004, Mursell 2021) |  |  |  |

• Postverbal subjects express new information focus in Italian:

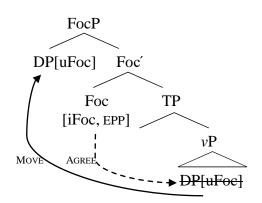
| (14) | Italian |     |          |     |                     |
|------|---------|-----|----------|-----|---------------------|
|      | Q: Chi  | ha  | parlato? | A1: | Ha parlato Gianni.  |
|      | who     | has | spoken   | A2: | #Gianni ha parlato. |

- Postverbal subjects are below certain adverbs:
- (15) a. ?Spiegherà completamente **Maria** al direttore. explain.FUT completely M. to.the director 'Maria will explain (it) completely to the director.'
  - b. \*Spiegherà Maria completamente al direttore.

- (16) [IP pro [I spiegherà [FocP completamente [FocP Maria [vP Maria spiegherà [PP al direttore]]]]]]
- No overt movement to the *v*P periphery in Hausa:
- (17) Hausa
  Sun sayoo wà Muusaa wàndoo. (Newman 2000: 276)
  they.PFV buy for Musa trousers
  'They bought trousers for Musa.'

(elicited data)

- (18) a. Q: Who did they buy trousers for?
  A1: Sun sayoo [vP wà Muusaa wàndoo].
  b. Q: What did they buy for Musaa?
  - A1: Sun sayoo [ $_{\nu P}$  wà Muusaa wàndoo]. A2: \*Sun sayoo [ $_{\nu P}$  wàndoo wà Muusaa].
- Analysis of (emphatic) ex situ focus (19A):
- (19) Hausa
  - A: Nairàa àshìrin zaa kà biyaa in yaa yi makà. (HB 3.03) naira twenty FUT 2SG pay if 3SG do for.you 'It is TWENTY NAIRA that you will pay if he makes it for you.'
  - B: A'a, zân biyaa shâ bìyar nèe.
     no FUT.1SG pay fifteen PRT
     'No, I will pay FIFTEEN.'
- (20) a. [[(19A)<sup>f</sup>]] = λP.∃x ∈ ALT(20 naira) & P = you will pay x
  b. conversational implicature: 20 naira is a candidate that is unlikely to satisfy P (subjective speaker evaluation of alternatives)
- (21) ex situ focus syntax



- Analysis of in situ focus
- (i) New information focus (e.g. after an unmarked wh-question)
- (22) Hausa

Q: How much will you pay?

A: Zân biyaa **shâ bìyař**. FUT.1SG pay fifteen 'I will pay FIFTEEN.'

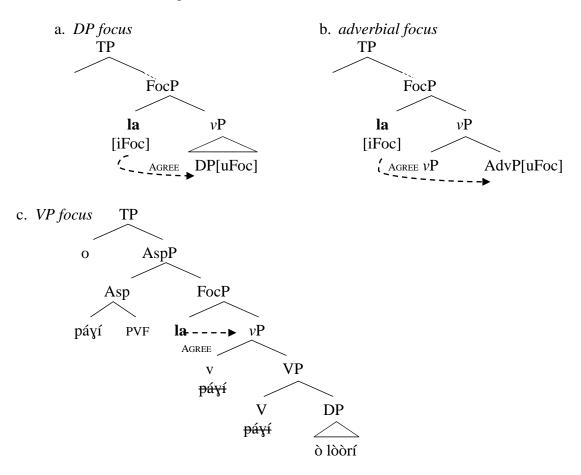
- (23)  $[[((22A)^{f}]] = \lambda P.\exists x \in ALT(15 \text{ naira}) \& P = I \text{ will pay } x \text{ (open set interpretation)}$
- (ii) Contrastive focus in the context of (19A):
- (24)  $[[(19B)^{f}]] = \lambda P.\exists x \in ALT(15 \text{ naira}) \& P = [I \text{ will pay } x] \& P \neq [I \text{ will pay exactly } 20 \text{ N}]$ (contrastive interpretation)
- (25) in situ focus syntax (e.g. Mursell 2021) a. high agreement b. low agreement TP FocP **FocP** Foc Foc TP Foc' [iFoc] vP Foc vP [iFoc] AGREE -- → DP[uFoc] ► DP[uFoc] AGREE

#### 2.4 Marked in situ focus in Dagbani

- Mabia languages (Niger Congo, Northern Ghana and bordering regions) provide evidence for overt low focus markers.
- Dagbani has ex situ and in situ focus strategies.
- Ex situ wh / focus is marked by the subject focus marker *n* or the non-subject focus marker *ka*, both heading the high FocP.

| (26) Q:  | <b>Dùní ń</b> tú-rí má?<br>who FOC insult-IPFV me<br>'Who is insulting me?'                          | A:                   | <b>Bání ń</b> tú-rí má.<br>3PL FOC insult-IPFV me<br>'THEY are insulting me.'      |  |  |  |
|--|--|----------------------|--|--|--|--|
| (27) Q:  | <b>Dùní ká</b> bé tú-rá?<br>who FOC 3PL insult-IPFV<br>'Who are they insulting?'                     | A:                   | <b>Mání ká</b> bέ tú-rá.<br>1sg FOC 3PL insult-IPFV<br>'They are insulting ME.'    |  |  |  |
| • In situ wh / focus is marked by the marker <i>lá</i> . |  |                      |  |  |  |  |
| (28) <i>obje</i><br>Q:                                   | ect focus (Issah 2020: 115)<br>Napari dá Íá bò?<br>Napari buy.PFV FOC what<br>'What did Napari buy?' | A:                   | Napari dá <b>lá búá</b> .<br>Napari buy.PFV FOC goat<br>'Napari bought A GOAT.'    |  |  |  |
| (29) adve  | erbial focus (Issah 2020: 181)   |                      |  |  |  |  |
| Q:   | Ò cháŋ <b>yà</b> ?<br>3SG go.PFV where<br>'Where has s/he gone?'                                     | A:                   | Ò cháŋ là <b>daa</b> .<br>3SG go.PFV FOC market.<br>'S/he has gone TO THE MARKET.' |  |  |  |
|  | focus (elicited data)  |                      |  |  |  |  |
| Q:   | $\dot{O}$ níŋ <b>b</b> $\dot{O}$ ?   | A:                   | Ó páyí lá ò lòòrí.   |  |  |  |
|  | 3SG do.PFV what<br>'What did he do?'   |                      | 3SG wash.PFV FOC 3SG car   |  |  |  |
|  | what the ne uo?  | 'He washed his car.' |  |  |  |  |

- *la* is a low focus marker agreeing with the in situ focus
- (31) in situ focus: low agreement



• Subjects can only be focused ex situ since the default position of subjects is SpecTP.

### Interim summary:

- Apart from ex situ focus marking, Dagbani marks focus also in situ (choice is pragmatically driven).
- In situ focus is marked by the particle *la* in FocP.
- This is evidence for a structured left periphery of vP, indicating its phasehood.

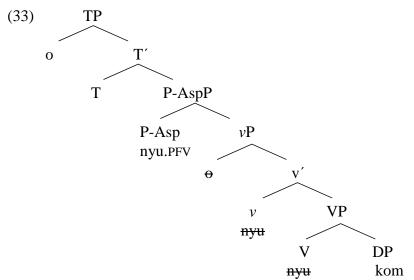
# 3. Dagbani verbal morphology

## 3.1 Perfective aspect

- transitive verbs
- (32) O nyu kom. 3sG drink.PFV water 'He drank water.'

Assumptions:

- The perfective aspect is morphologically unexpressed.
- The verb moves to the head of the perfective AspP for perfective interpretation.

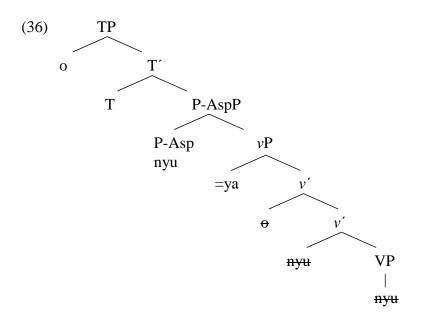


• intransitive verbs

- (34) O nyu=**ya**. 3sG drink.PFV=A 'He drank.'
- Presence of =*ya* is reminiscent of conjoint / disjoint marking systems, better known from Bantu languages (Hyman & van der Wal 2017), e.g. Kirundi (Nshemezimana & Bostoen 2017).
- (35) Ehe ntaa co turiiyé, turanyóoye gusa.
  ehe ntaa ki-ó tu-rí-ye<sup>H</sup> tu-ø-ra-nyó-ye gusa
  so NEG.COP 7-REF 1PL.SM-eat-PFV.REL 1PL.SM-PRS-DJ-drink-PFV only
  'So, there is nothing that we eat, we DRINK ONLY.'

#### Assumptions:

- The verb-adjacent phrase, *vP* in (34) must contain phonetically overt material (cf. Buell 2005, 2006 on Zulu)
- If vP is empty, merge =a in the outer specifier of vP (=ya after vowels and the labial and velar nasals)

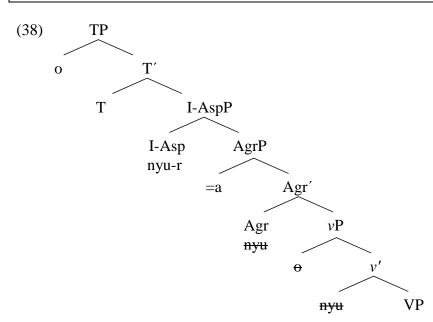


### **3.2** Imperfective aspect

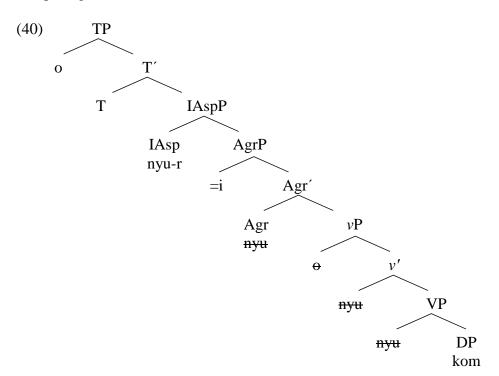
- intransitive verbs
- (37) O nyu-r=a. 3SG drink-IPFV=A 'He is drinking.'

Assumptions:

- The imperfective aspect is overtly marked by r (or allomorphs t, d, n)
- The imperfective is more complex than the perfective in that it embeds an AgrP (cf. Aboh 2004, 2009).
- The specifier of AgrP must be overt.
- Given that the sister constituent to I-Asp, AgrP, does not have overt content in (37), the specifier is occupied by =a.
- If the conditions for merging =a are not met, merge =i.



- transitive verbs
- (39) O nyu-r=i kom. 3SG drink-IPFV=I water 'He is drinking water.'
- Since the licensing conditions for =a are not met in (39), the marker =i is merged in SpecAgrP.



- =i and =(y)a do not mark transitivity
- adverbials trigger =i
- (41) Páγí-bá dèm-d=í / \*dèm-d-á kpè.
   woman-PL play-IPFV=I / play-IPFV=A here
   'The women played here.'
- intransitive verb focus is marked by the particle *mi* (instead of *la*), which triggers =*i* in SpecAgrP

sáhá ŋɔ? Á (42) Q: Bò níŋ-d=í kárín-d=í bée kà á mí do-IPFV=I time DEM? 2SG what FOC 2SG read-IPFV=I FOC or mí? á dí-r-í 2SG eat-IPFV=I FOC 'What are you doing right now? Are you reading or are you eating?' A: Ń dí-r-í mí. 1SG eat-IPFV=I FOC 'I am eating.'

### 3.3 Adverbials

3.3.1 Adverb positions in German (Frey 1993, Frey & Pittner 1998, Pittner 2004)

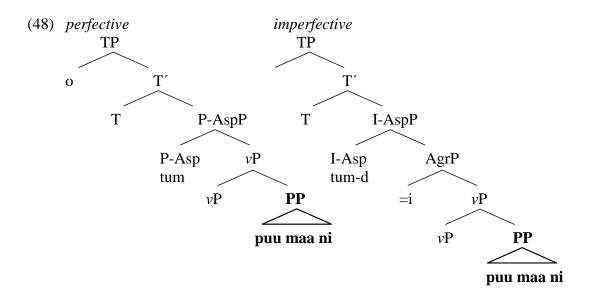
- directional (43) and locative (44) adverbials appear low in the clause:
- (43) a. Sie ist nicht [PP nach München] gegangen. she is NEG to Munich gone
  'She hasn't gone to Munich.'
  b. \*Sie ist nach München nicht gegangen.
- (44) Er hat das Auto [PP in der GaRAge] abgestellt. he has the car in the garage parked 'He parked the car in the garage.'
- temporal adverbs are higher in the German clause
- (45) Hans hat [PP am Montag] in seiner Wohnung den FUßboden geschrubbt.John has on Monday in his apartment the floor cleaned'On Monday, Hans cleaned the floor in his apartment.'

#### 3.3.2 Adverb positions in Dagbani

- all adverbials in Dagbani appear in right-adjoined position
- locative adverbials: verb=*a* excluded in both aspects
- (46) a. Páyí-bá dèm-d=í / \*dèm-d=á kpè. woman-PL play-IPFV=I / play-IPFV=A here 'The women are playing here.'
  - b. Páyí-bá dèm / \*dèm=yá kpè. woman-PL play.PFV/ play.PFV-A here 'The women played here.'
- (47) a. O tum-d=i /\*tum-d=a puu maa ni. 3SG work-IPFV=I work-IPFV=A farm DEF at 'He works at the farm.'
  - b. O tum /\*tum=ya puu maa ni. 3SG work.PFV work.PFV=A farm DEF at 'He worked at the farm.'

### Assumption:

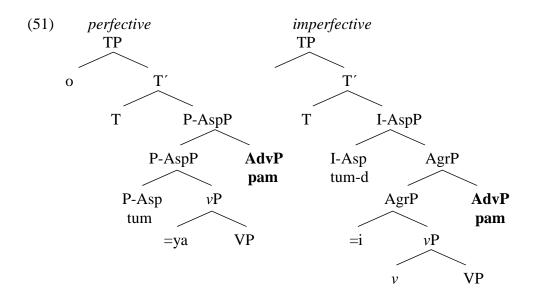
locative & directional adverbs right adjoin to vP and are in the scope of the verb.



- With manner and temporal adverbs, the distribution of =i and =a depends on aspect: imperfective aspect triggers =i, perfective aspect triggers =a.
- perfective manner & temporal adverbs
- (49) a. O \*tum / tum=ya pam. 3SG work.PFV / work-PFV=A hard 'He worked hard.'
  - b. O \*tum / tum=ya zuŋɔ zaa. 3SG work.PFV / work=A day all 'He worked all day.'
- imperfective manner & temporal adverbs
- (50) a. O tum-d=i /\*tum-d=a pam. 3SG work-IPFV=I / work-IPFV=A hard 'He works hard.'
  - b. O tum-d=i /\*tum-d=a zuŋɔ zaa. 3SG work-IPFV=I / work-IPFV=A day all 'He works all day.'

Assumptions:

- Manner & temporal adverbials adjoin higher in the Dagbani clause, to the first node above the *v*P-phase.
- In the perfective, this is P-AspP; in the imperfective, this is AgrP.
- They are in the scope of the verb in I-Asp, but out of the scope of the verb in P-Asp.



Interim summary:

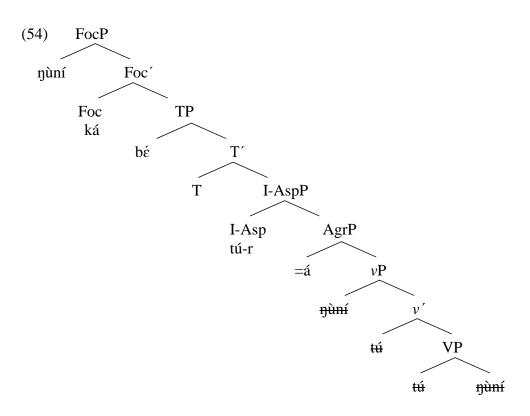
- Dagbani has an asymmetric aspect system: the imperfective is more complex than the perfective. The complexity of the imperfective consists of an additional AgrP selected by I-Asp.
- The Dagbani verb needs an overt element in its scope. In the absence of such elements, the clitic =a is inserted in the specifier of phrase immediately selected by the verb.
- AgrP hosts the clitic =i to indicate overt elements in the verbal scope.
- The analysis is supported by the distribution of the clitics with different types of adverbs.

# 4. Successive cyclic movement

Assumption:

Ex situ wh/focus movement proceeds through vP-edge, the outer SpecvP.

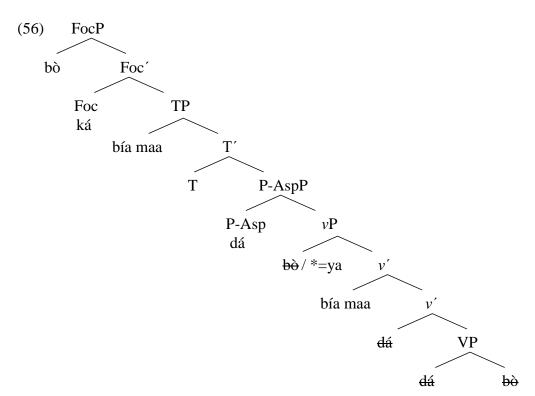
- The imperfective morphology is not affected.
- (52) Q: Dùní ká bέ tú-r=á?
  who FOC 3PL insult-IPFV=A
  'Who are they insulting?'
  - A: Mání ká bέ tú-r=á.
     1SG FOC 3PL insult-IPFV=A
     'They are insulting ME.'
- (53) Q: **Bò** ká bíhí máa dá-r=í kpè? what FOC children DEF buy-IPFV=I here 'What are the children buying here?'
  - A: **Bú-hí** máa ká bέ dá-r=í kpè. goat-PL DEF FOC 3PL buy-IPFV=I here 'The children are buying the GOATS here.'



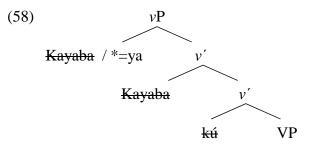
- The perfective aspect IS affected.
- Movement through the outer SpecvP blocks =a in this position.

| (55) Q:                   | Bò   | ká  | bí-á     | máa | dá      | / *dá=yá.    |
|---------------------------|------|-----|----------|-----|---------|--------------|
|                           | what | FOC | child-SG | DEF | buy.PFV | / *buy.PFV=A |
| 'What did the child buy?' |      |     |          |     |         |              |

A: Yìlí ká bí-á máa dá / \*dá=yá. house FOC child-SG DEF buy.PFV / \*buy.PFV=A 'The child bought a HOUSE.'



- Subject focus in the perfective shows this blocking effect as well.
- (57) Q: Dùní ń kú / \*kú=yá? who FOC kill.PFV / \*kill.PFV=A 'Who killed?'
  A: Kayaba ń kú / \*kú=yá. Kayaba FOC kill.PFV / \*kill.PFV=A 'KAYABA killed.'
- Assumption for the left *v*P-periphery: multiple specifiers



# 5. Summary

- In situ focus in Dagbani is marked by the focus marker *la*, providing evidence for a structured *v*P-periphery in this language (= evidence I for vP-phase in Dagbani).
- In situ focus does not move to SpecFoc, differing from ex situ focus, but agrees with the focus feature on *la*.
- Verbal aspect in Dagbani differs in complexity. The imperfective aspect is more complex and requires an additional AgrP with an overtly realized specifier.
- The verb in P/I-Asp needs an overt element in its scope. In the absence of overt elements, the clitic =a is inserted in the next lower specifier.
- If =a is not licensed in SpecAgrP, =i realizes this specifier.
- Movement proceed through the outer SpecvP and blocks =*a* insertion in the perfective (= evidence II for vP-phase in Dagbani).

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