

1. Introduction

Context for this study.

- 1) Part of a larger Project on Motion Pre-dicate:
- 2) Crosslinguistic and crossmodality in nature
- 3) 9 Spoken languages (Central América, África, Asia...)
- 3 Sign languages:
 1. ASL, LIS, HKSL
 2. ...+ LSCu

Cuba Sign Languages (LSCu)

- *LSCu is the sign language of Cuba
- *CENDSOR (Center for the Development of the Deaf)
- *Research Center
- *Phonological and morphological research
- *Aspectual studies
- *Phonological and morphological properties of movement
- *Support for the teaching of LSCu and the training of deaf instructors and interpreters
- *Audiovisual production

2. Goal

To show:

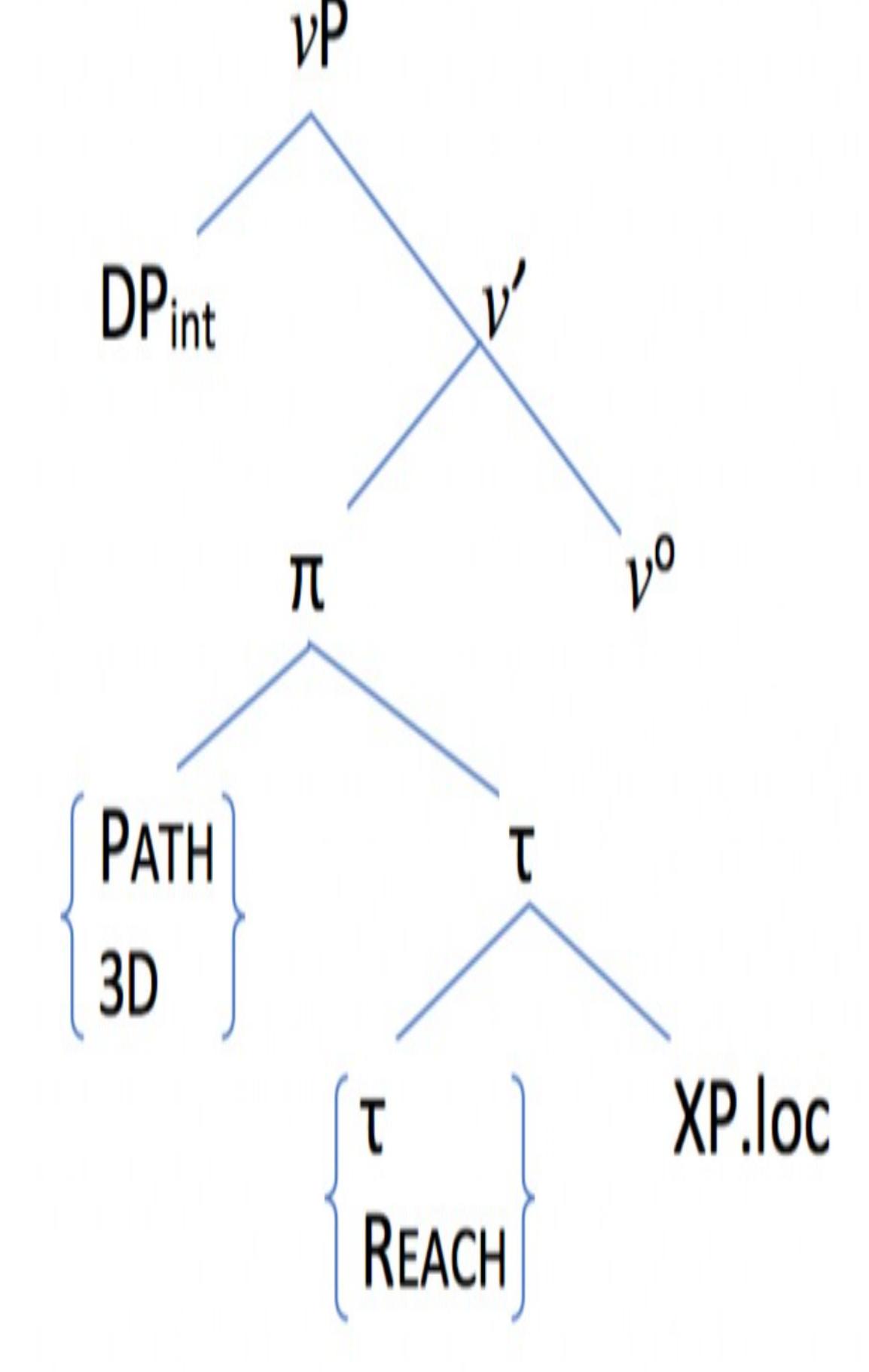
⇒ Non-Manual Markers (NMMs) eyegaze and mouth gesture in relation to Motion predicate

⇒Syntactic representation of Motion Predicates subeventive structure

⇒MNM-[mirada] como marcador de Concordancia (Agreement) en los predicados de ASL Neidle et al (2000)

⇒Kinetic properties in EVH (Wilbur, Schalber),NMM in He-Tang

4. Hypothesis



3. Methodology

Data collection.

- . -3 adult native signers, fluent users of LSCu.
- . -Two cameras: frontal and side angles
- . Each signer was asked to produce 2 different renderings for each video animation total of 1050 productions
- . -Qualitative follow-up with the signers, as needed.
- . -Recordings synchronized and clipped

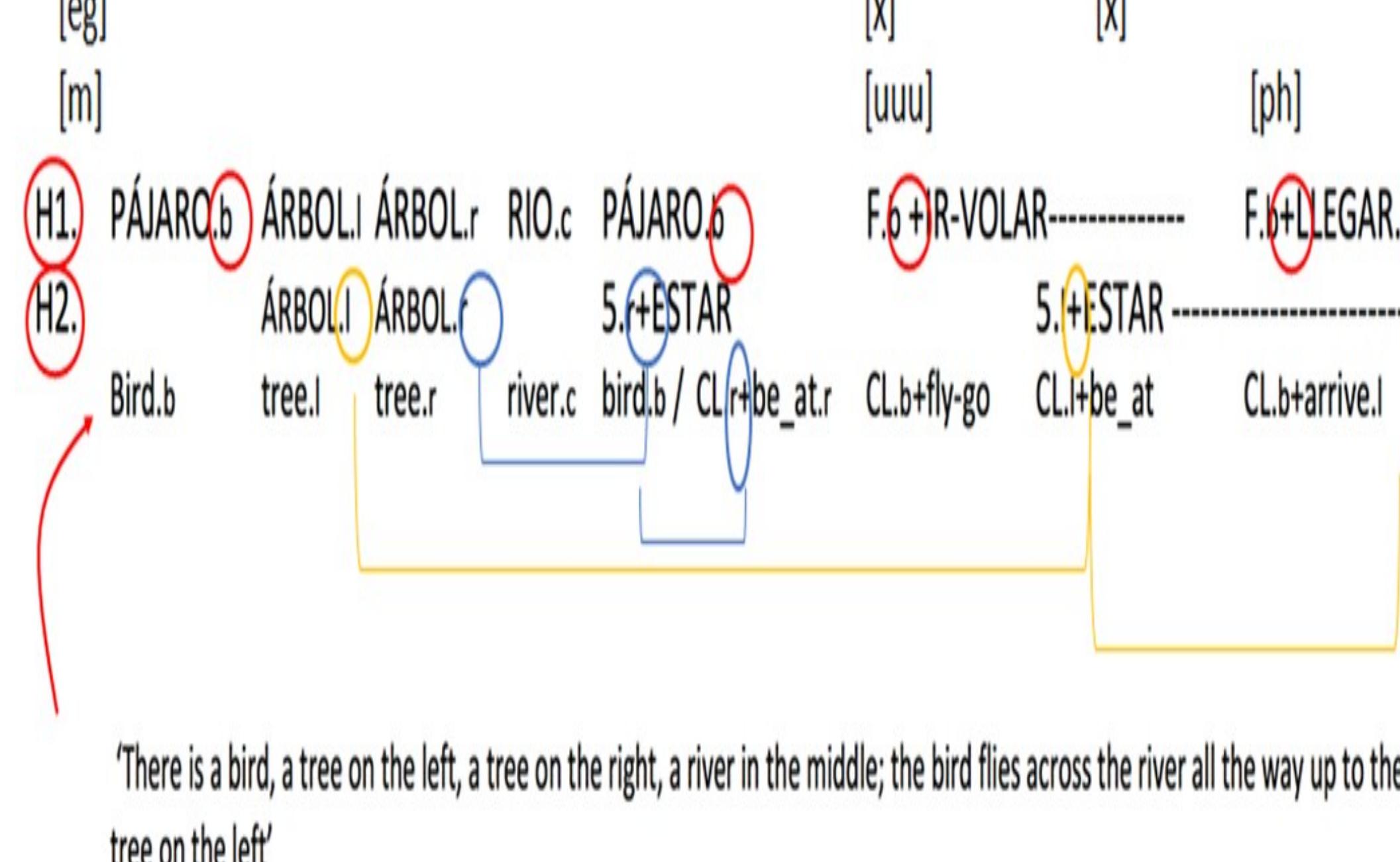
Data Processing.

Synchronized Clips, processed in ELAN with coding tiers for:

- Dominant hand H1
- Non-Dominant hand H2
- NMM-eyegaze
- NMM-mouth;

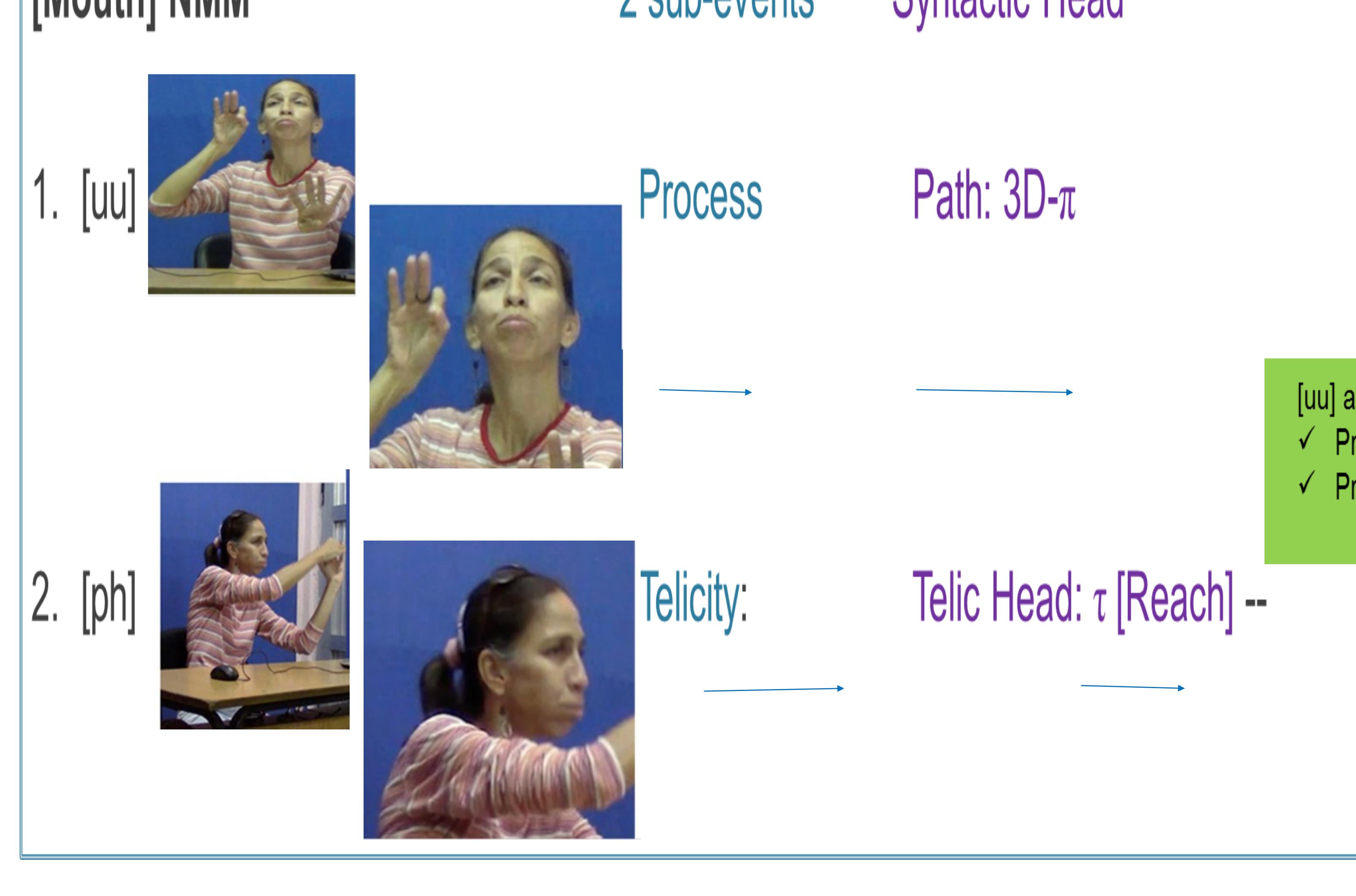
spatial coding for Figure, Endpoint and Movement vectorization (Benedicto-Branchini-Mantovan, 2015

Glossing conventions

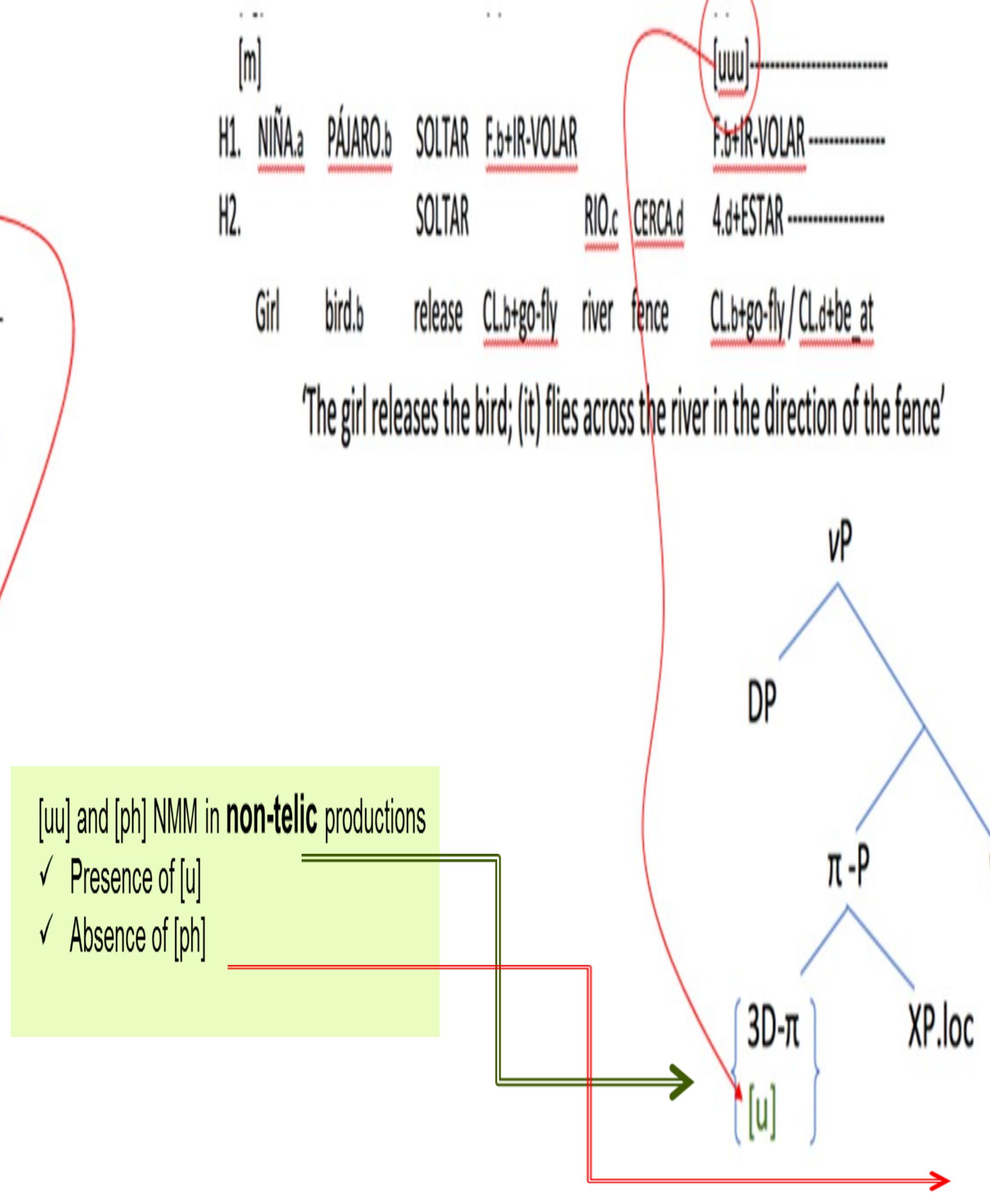


'There is a bird, a tree on the left, a tree on the right, a river in the middle; the bird flies across the river all the way up to the tree on the left'

5. Pattern characterization 1: Mouth NMMs LSCu



• [uu] and [ph] NMM
[m]
H1. PÁJARO.b ÁRBOLI ÁRBOL.r RÍO.c PÁJARO.b
H2. ÁRBOLI ÁRBOL.r river.c bird.b / CL.r+be_atr
Bird.b tree.l tree.r river.r bird.b / CL.r+be_atr
F.b+IR-VOLAR-----
F.b+LLEGAR.I-----
5.r+ESTAR-----
CL.b+fly-go-----
CL.b+arrive.I-----
'There is a bird, a tree on the left, a tree on the right, a river in the middle; the bird flies across the river all the way up to the tree on the left'



6. Pattern characterization 2: EyeGaze NMMs

In Telic productions

2 sub-eventive structures: ↓ Process / Undergoer (Figure)

↓ Telicity / EndPoint:

1. [EG] on Figure: the argument of v

2. [EG] on Goal: the argument of Telic Head (Reach) τ

<img alt="Signer