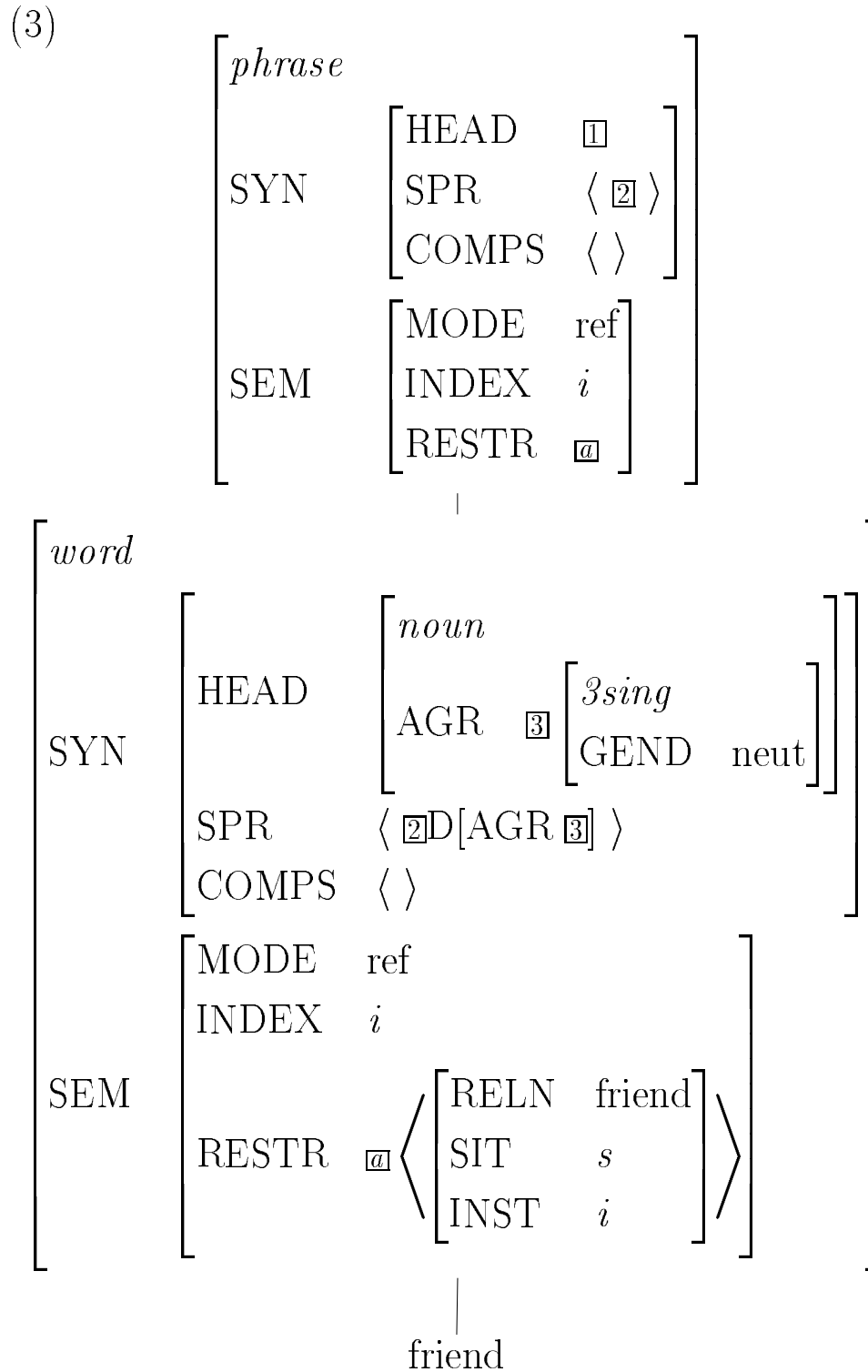


6.2 Slides

- (1) a. *Them sent us a letter.
b. *They sent we a letter.
c. *They sent us two letter.
d. *They sends us a letter.
e. *They sent us a letters.
- (2) a. Our friend sent us a letter
b. They sent us a letter on Tuesday.
c. They went to Rome and sent us a letter.
d. What did they send us?

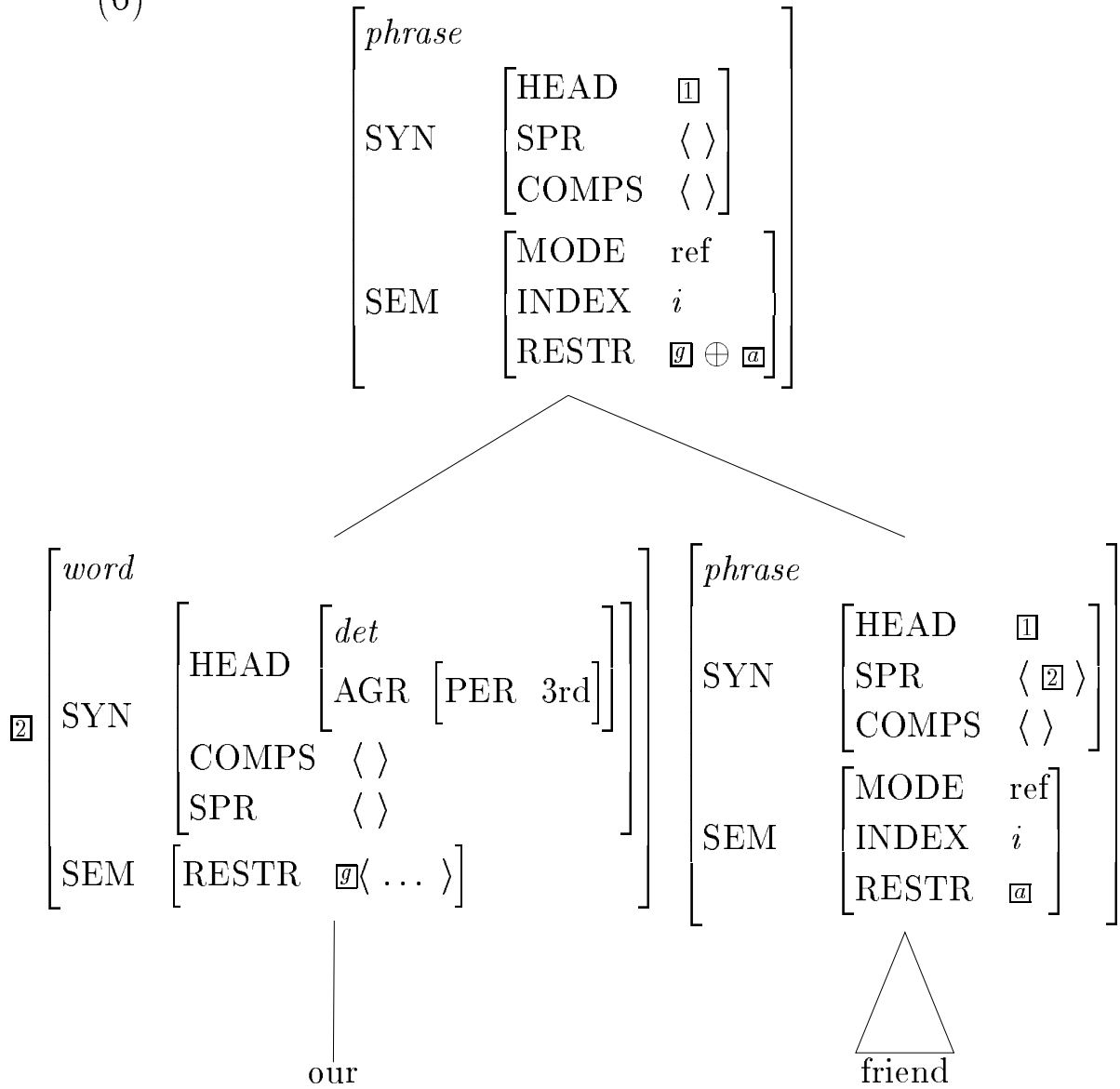


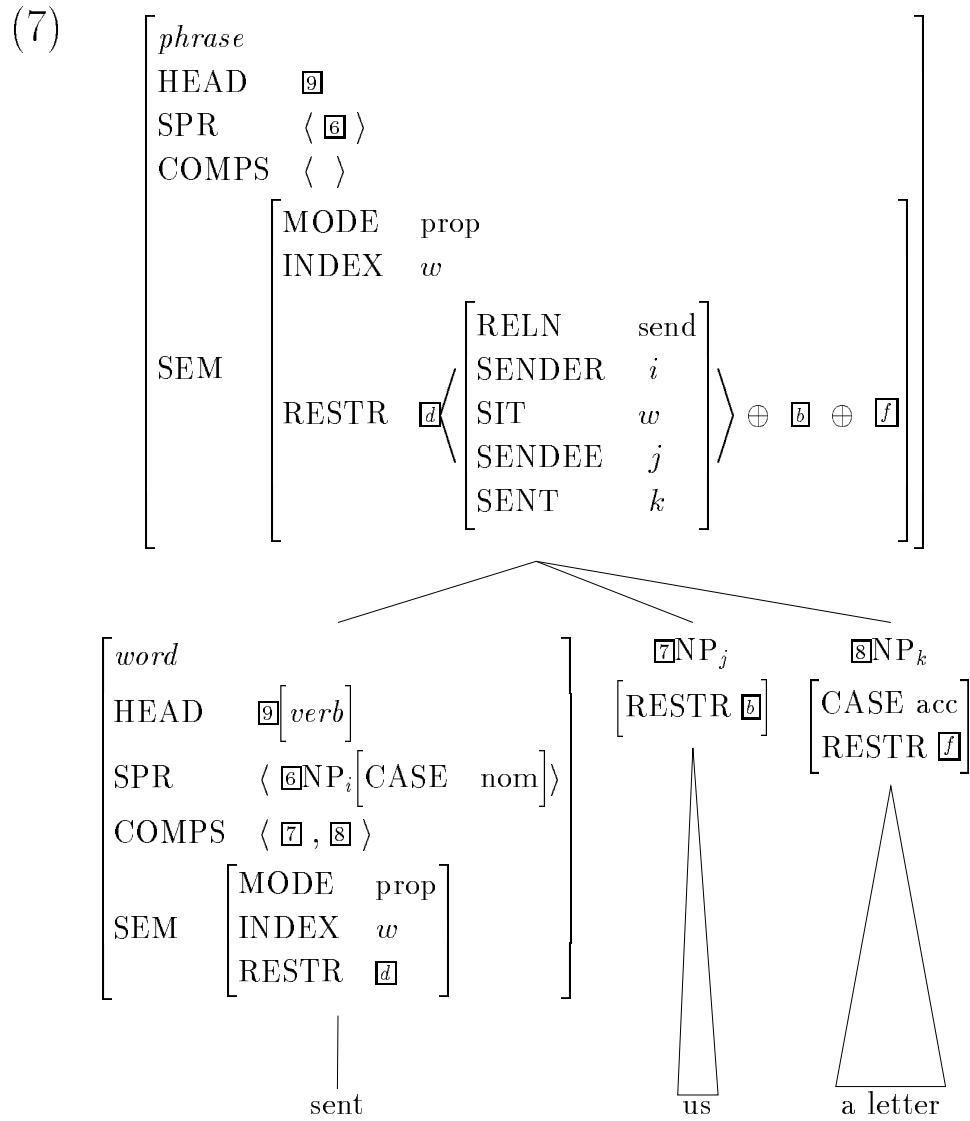
$$(4) \left[\begin{array}{l} \textit{word} \\ \text{SYN} \left[\begin{array}{l} \text{HEAD} \left[\begin{array}{l} \textit{det} \\ \text{AGR} \left[\text{PER} \quad \text{3rd} \end{array} \right] \end{array} \right] \\ \text{COMPS} \quad \langle \rangle \\ \text{SPR} \quad \langle \rangle \end{array} \right] \\ \text{SEM} \left[\text{RESTR} \quad \mathcal{D} \langle \dots \rangle \end{array} \right] \end{array} \right] \left\langle \text{our} , \right\rangle$$

$$(5) \left[\begin{array}{l} \textit{word} \\ \text{SYN} \left[\begin{array}{l} \text{HEAD} \left[\begin{array}{l} \textit{det} \\ \text{AGR} \left[\text{PER} \quad \text{3rd} \end{array} \right] \end{array} \right] \\ \text{COMPS} \quad \langle \rangle \\ \text{SPR} \quad \langle \rangle \end{array} \right] \\ \text{SEM} \left[\text{RESTR} \quad \mathcal{D} \langle \dots \rangle \end{array} \right] \end{array} \right]$$

|
our

(6)

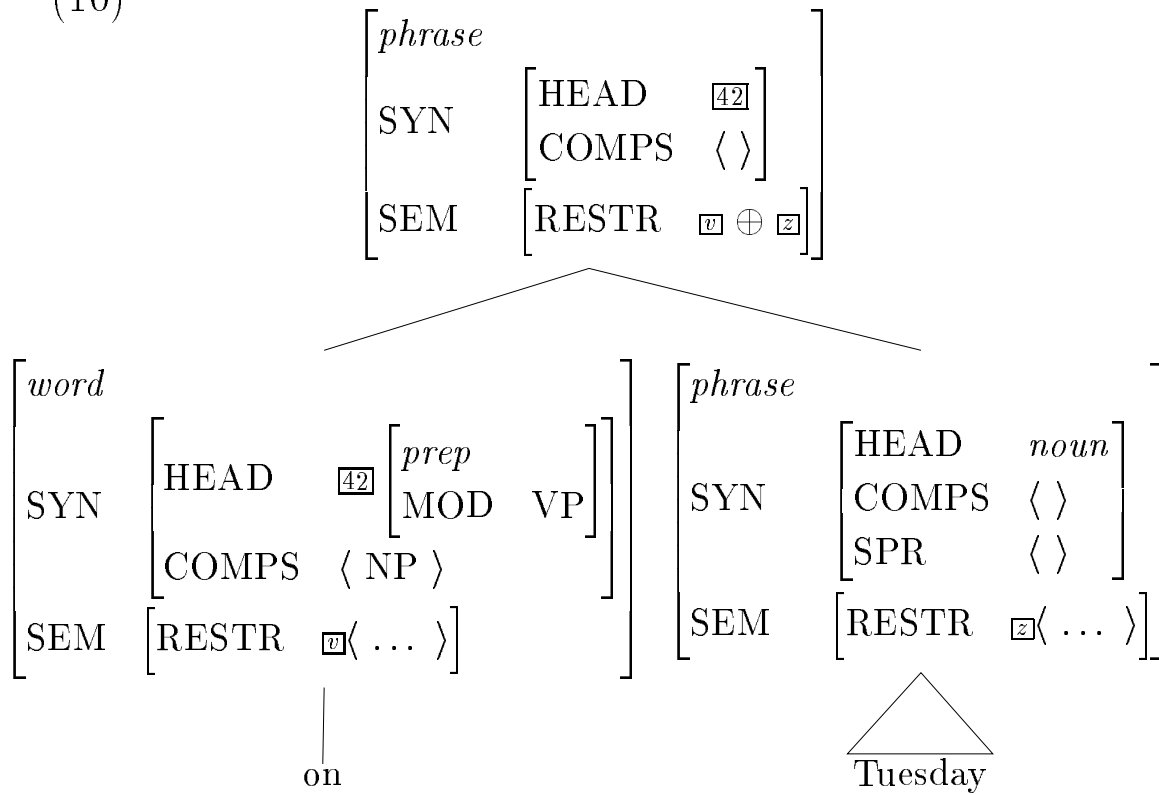


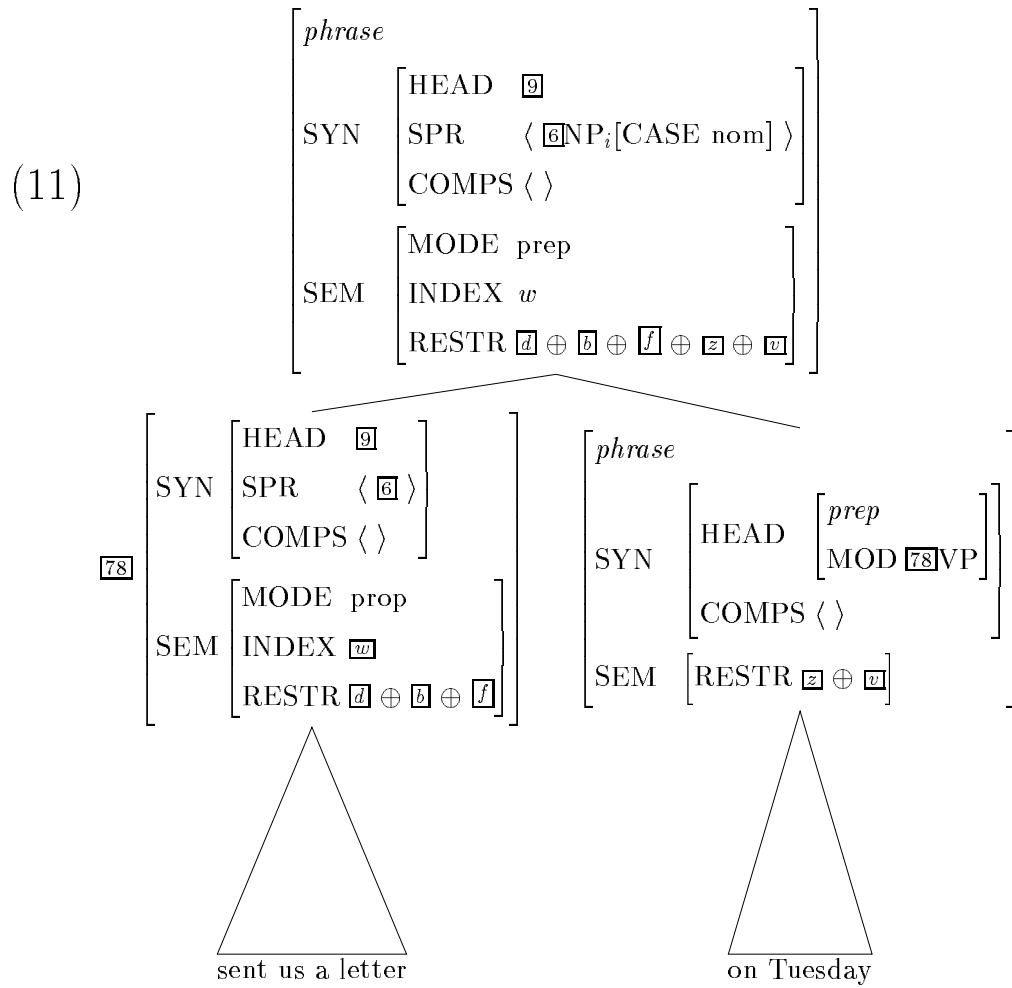


$$(8) \quad \left\langle \text{on}, \begin{bmatrix} \textit{word} \\ \text{SYN} \begin{bmatrix} \text{HEAD} \begin{bmatrix} \textit{prep} \\ \text{MOD} \quad \text{VP} \end{bmatrix} \\ \text{COMPS} \quad \langle \text{NP} \rangle \end{bmatrix} \\ \text{SEM} \begin{bmatrix} \text{RESTR} \quad \boxed{\varnothing} \langle \dots \rangle \end{bmatrix} \end{bmatrix} \right\rangle$$

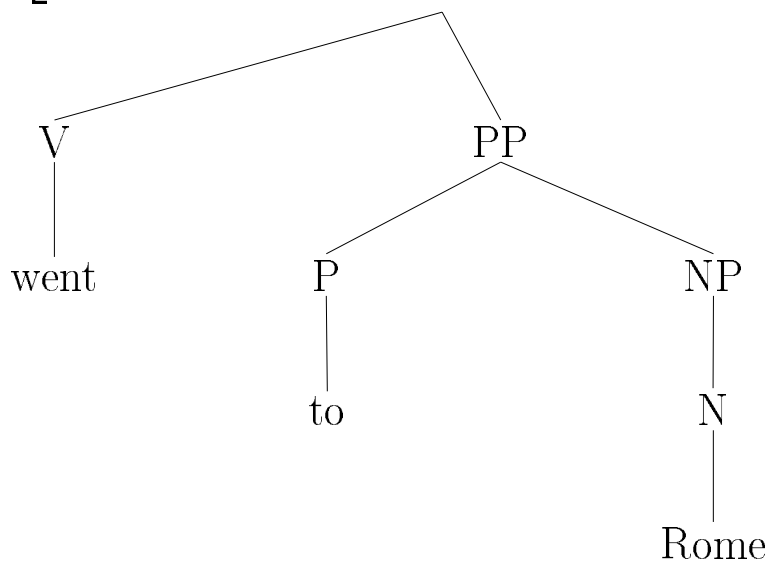
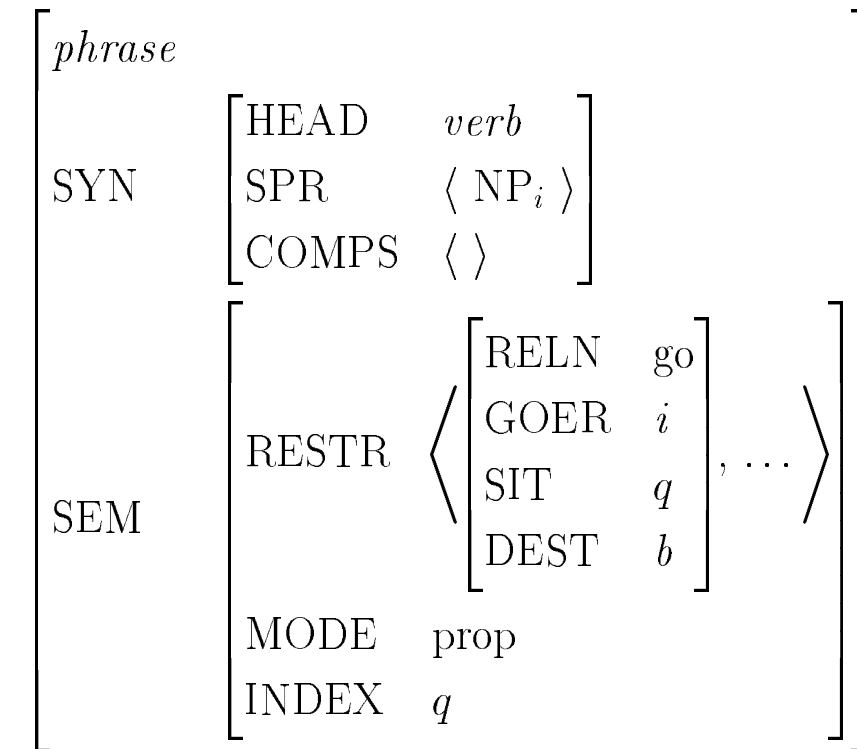
$$(9) \quad \left\langle \text{Tuesday}, \begin{bmatrix} \textit{word} \\ \text{SYN} \begin{bmatrix} \text{HEAD} \quad \textit{noun} \\ \text{COMPS} \quad \langle \rangle \\ \text{SPR} \quad \langle (\text{D}) \rangle \end{bmatrix} \\ \text{SEM} \begin{bmatrix} \text{RESTR} \quad \boxed{\varnothing} \langle \dots \rangle \end{bmatrix} \end{bmatrix} \right\rangle$$

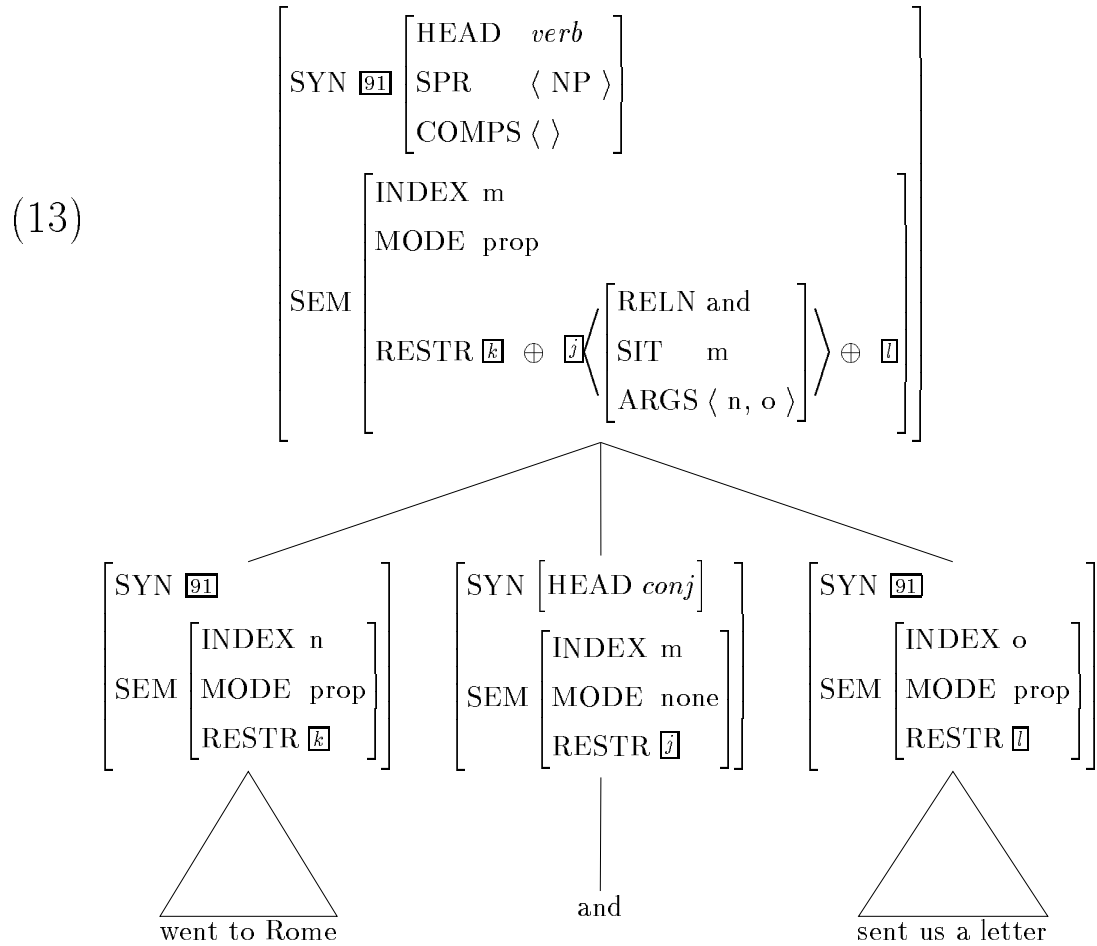
(10)





(12)





(14) Well-Formed Tree Structure

Φ is a well-formed tree structure just in case every local subtree in Φ satisfies some lexical entry η or some grammar rule ρ .

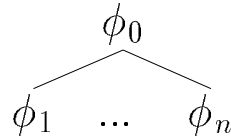
(15) Lexical Satisfaction

A word structure:

$$\begin{array}{c} F \\ | \\ \omega \end{array}$$

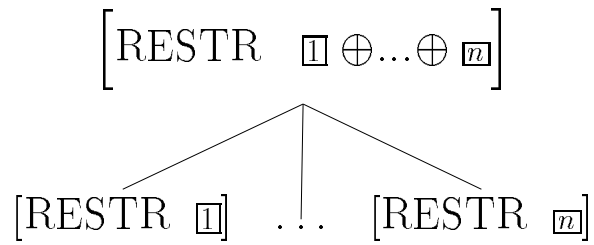
satisfies a lexical entry $\langle \omega, \delta \rangle$ just in case F satisfies δ (i.e. just in case δ is true of F).

(16) Phrasal Satisfaction

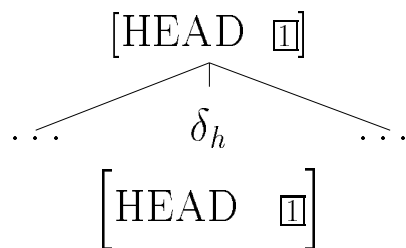
A local subtree $\Phi =$ satisfies a grammar rule $\rho = \delta_0 \rightarrow \delta_1 \dots \delta_n$ just in case:

1. The sequence $\langle \phi_0, \phi_1, \dots, \phi_n \rangle$ satisfies the description $\langle \delta_0, \delta_1, \dots, \delta_n \rangle$
2. Φ satisfies the Semantic Compositionality Principle,
3. If ρ is a headed rule, then Φ satisfies the Head Feature Principle and the Semantic Inheritance Principle,
4. If ρ is a headed rule other than the Head-Complement Rule, then Φ satisfies Part A of the Valence Principle, and
5. If ρ is a headed rule other than the Head-Specifier Rule, then Φ satisfies Part B of the Valence Principle.

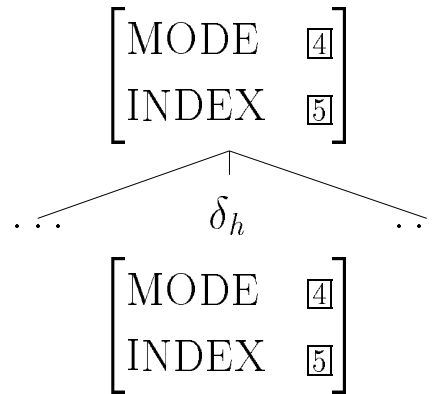
(17) Semantic Compositionality Principle



(18) Head Feature Principle



(19) Semantic Inheritance Principle



(20) Valence Principle

