

## Appendix: A Demonstration of the Theory

### ABOUT NOTATION:

In demonstrating how the theory works, I will use the shorthand in (1') for feature structures. The integer following the thematic role label stands for the rank of the participant indicated in the subscript. The lines between the participants and GFs stand for unifications.

### Linking for noncausative monotransitives:

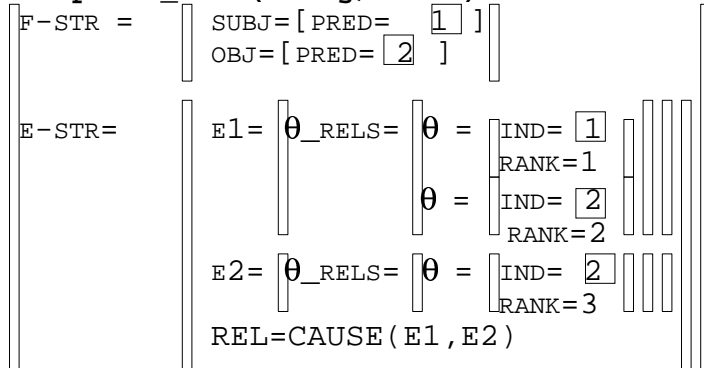
- (1) John ate an apple.  
 (1') 
$$\left[ \begin{array}{l} E1 = \left[ \begin{array}{l} \text{Agent1}_{\text{john}} \text{---} \text{SUBJ} \\ \text{Theme2}_{\text{apple}} \text{---} \text{OBJ} \end{array} \right] \end{array} \right]$$

## 1 Causative Verb Classes

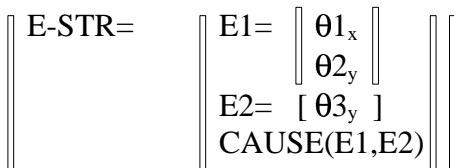
### 1.1 Causativized Intransitives

- (2) Matti kävel-yttä-ä koira-a. (3) Myrsky hajo-tti kato-n.  
 Matti.NOM walk-CAUS-3SG dog-PAR storm.NOM break-CAUS.PST roof-ACC  
 'Matti walks the dog' 'The storm broke the roof'

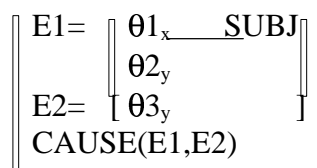
### Template\_Caus(Unerg/Unacc):



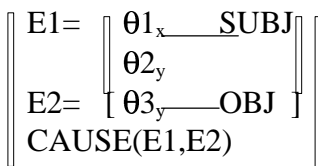
### STEP0: EVENT STRUCTURE



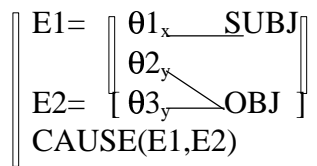
### STEP1: PARTICIPANT-GF ISOMORPHY



### STEP2: PARTICIPANT-GF ISOMORPHY (2)

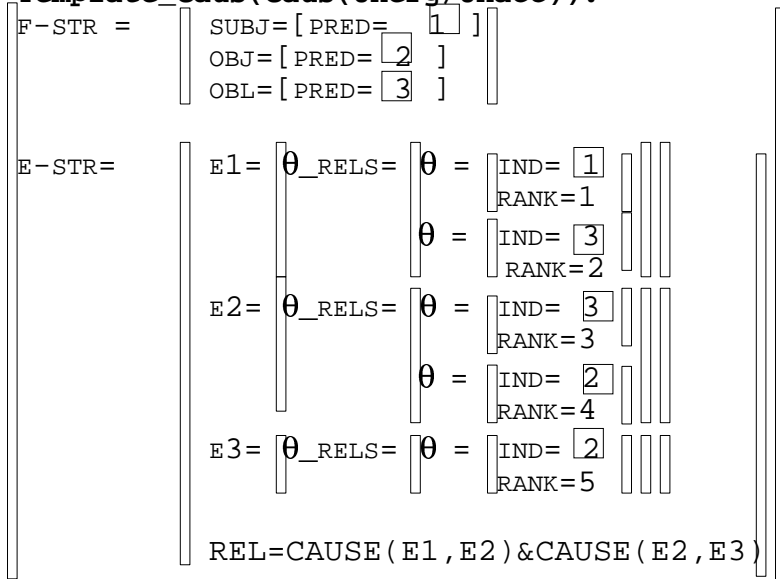
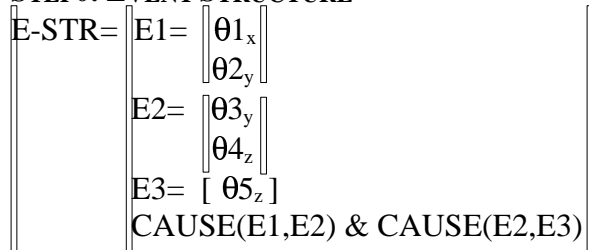
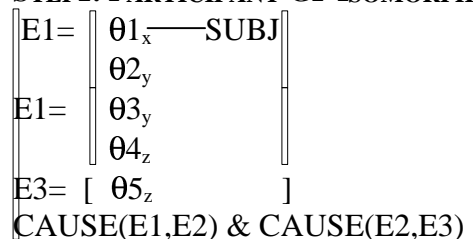
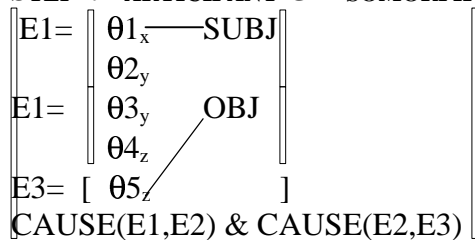
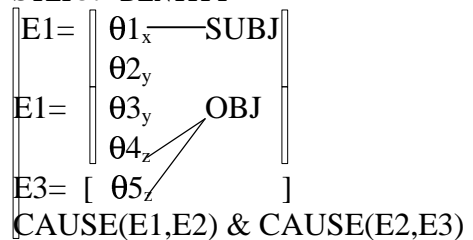


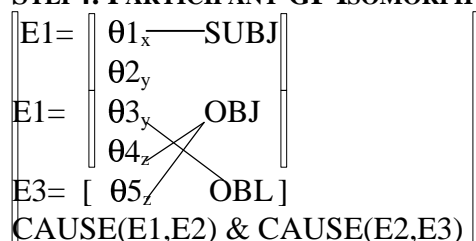
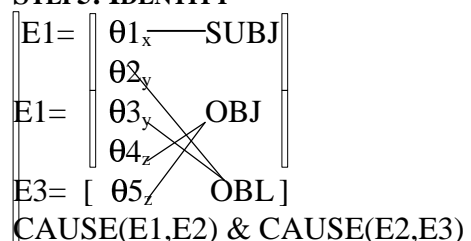
### STEP3: IDENTITY



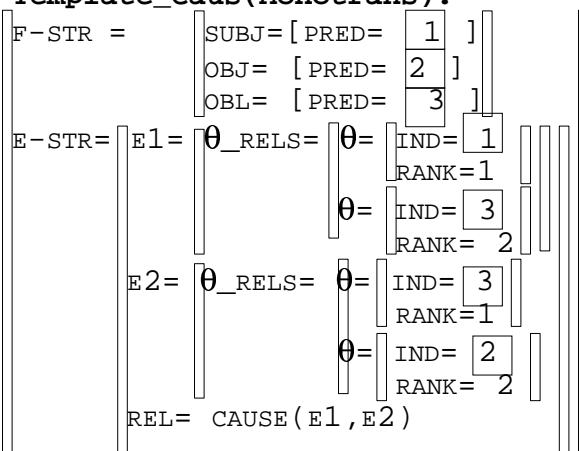
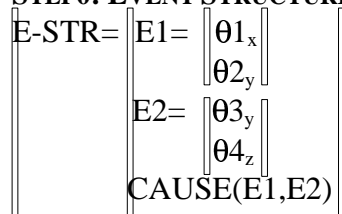
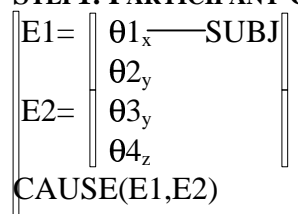
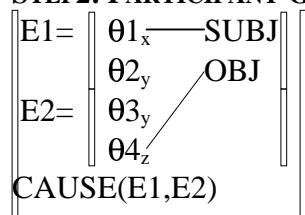
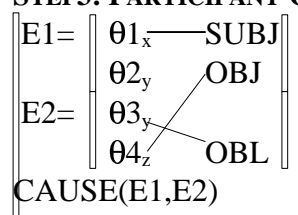
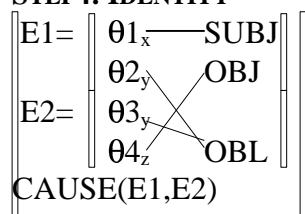
## 1.2 Doubly Causativized Intransitives

- (31) Kaisa kävel-yt- yttä- ä koira-a Mati- lla.  
 Kaisa-NOM walk-CAUS1- CAUS2-3sg dog-PAR Matti-INSTR  
 'Kaisa causes Matti to walk the dog'

**Template\_Caus(Caus(Unerg/Unacc)):****STEP0: EVENT STRUCTURE****STEP1: PARTICIPANT-GF ISOMORPHY (1)****STEP2: PARTICIPANT-GF ISOMORPHY (2)****STEP3: IDENTITY**

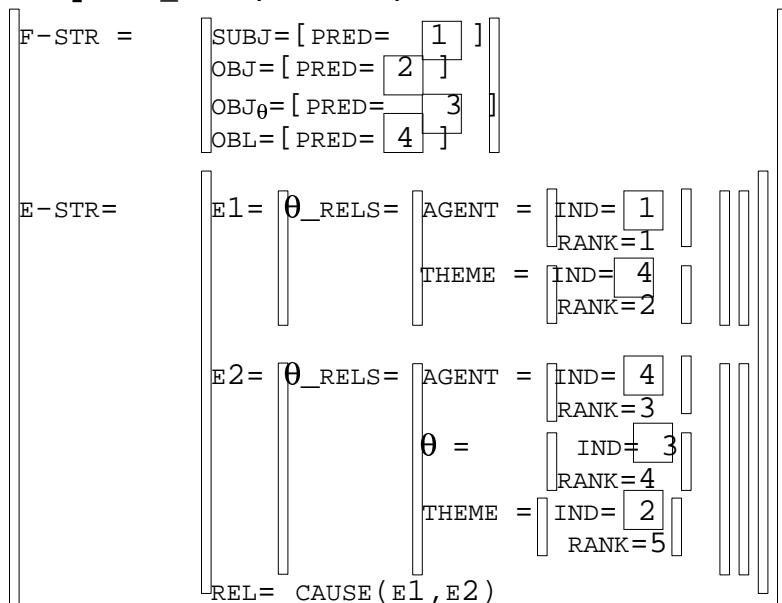
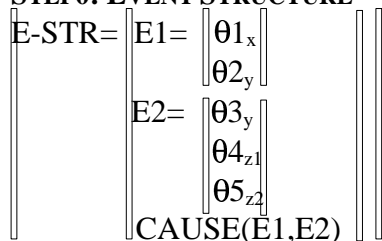
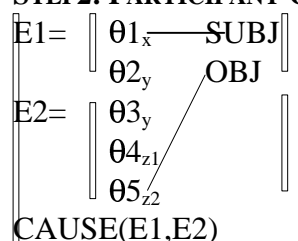
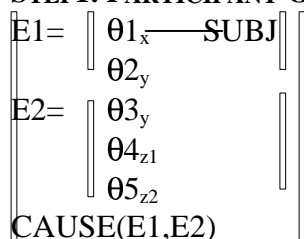
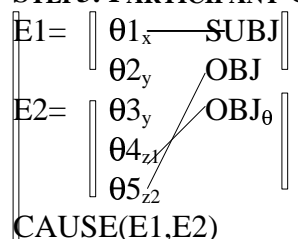
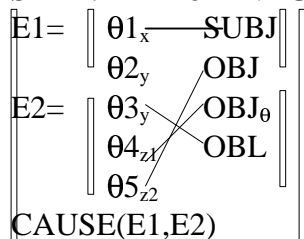
**STEP4: PARTICIPANT-GF ISOMORPHY (2)****STEP5: IDENTITY***1.3 Causativized Monotransitives*

- (32) Pekka rakensi talon.  
 Pekka built house-ACC`  
 'Pekka built a house'

**Template\_Caus (Monotrans) :****STEP0: EVENT STRUCTURE****STEP1: PARTICIPANT-GF ISOMORPHY (1)****STEP2: PARTICIPANT-GF ISOMORPHY (2)****STEP3: PARTICIPANT-GF ISOMORPHY (2)****STEP4: IDENTITY**

## 1.4 Causativized ditransitives

- (33) Kaisa pistä-tti pulla-t uuni-in Peka-lla.  
 Kaisa-NOM put-CAUS1 buns-ACC oven-ILL Pekka-INSTR  
 ‘Kaisa had Pekka put the buns in the oven’

**Template\_Caus(Ditrans):****STEP0: EVENT STRUCTURE****STEP2: PARTICIPANT-GF ISOMORPHY (2)****STEP1: PARTICIPANT-GF ISOMORPHY (1)****STEP3: PARTICIPANT-GF ISOMORPHY (2)****STEP4: PARTICIPANT-GF ISOMORPHY (2)****STEP5: IDENTITY**