

Formale Baumsprachen

Task 19 (relabelings)

- (a) Show that any relabeling preserves the image under pos.

Let Σ and Δ be ranked alphabets.

- (b) Under which conditions is there a relabeling between trees over Σ and trees over Δ ?

(c) Let τ be a relabeling between trees over Σ and trees over Δ . Now consider $\sigma \in \Sigma$, $\xi \in T_\Sigma$, and $L \subseteq T_\Sigma$. Quantify τ in the following expressions:

 - (i) $\tau(\sigma)$,
 - (ii) $\tau(\xi)$, and
 - (iii) $\tau(L)$.