

w_locle^{0,22}

$w_locle(w;x;y) \equiv_{\text{def}} x ((\lambda x,y. \neg \text{first}(y) \ \& \ x = \text{pred}(y))^*) y$

clarification:

$w_locle(w;x;y)$

$\equiv_{\text{def}} x$
 $\text{rel_star}(w\text{-E}(w);(\lambda x,y. \neg \text{first}(\lambda e.w\text{-pred}(w;e);y)$
 $\ \& \ x = \text{pred}(\lambda e.w\text{-pred}(w;e);y) \in w\text{-E}(w))) y$