

l_before_eventlist_iff^{0,22}

$\forall E:\text{Type}, \text{pred?}:(E \rightarrow (E + \text{Unit})), a, b, e:E.$
 $\text{SWellFounded}(\neg \text{first}(y) \ \& \ x = \text{pred}(y) \in E)$
 $\Rightarrow (a \text{ before } b \in \text{eventlist}(\text{pred?};e))$
 \Leftrightarrow
 $(a \ ((\lambda x,y. \neg \text{first}(y) \ \& \ x = \text{pred}(y) \in E)^*) \ e)$
 $\ \& \ (b \ ((\lambda x,y. \neg \text{first}(y) \ \& \ x = \text{pred}(y) \in E)^*) \ e)$
 $\ \& \ (a \ \lambda x,y. \neg \text{first}(y) \ \& \ x = \text{pred}(y) \in E^{\wedge} + b))$