

pred-first-lemma^{0,22}

$\forall E:\text{Type}, \text{pred}?:(E \rightarrow (E + \text{Unit})), n:\mathbb{N}, a, j:E.$

$\text{first}(j) \Rightarrow \text{rel.exp}(E; \lambda x, y. \neg \text{first}(y) \ \& \ x = \text{pred}(y) \in E;n)(a,j) \Rightarrow a = j$