

pred-first-lemma^{11,40}

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

$(\uparrow \text{first}(j)) \Rightarrow (\text{rel_exp}(E; \lambda x, y. (\neg(\uparrow \text{first}(y)))) \text{ c} \wedge (x = \text{pred}(y) \in E); n)(a, j)) \Rightarrow (a = j)$