

rel_exp_iff^{11,40}

$\forall n:\mathbb{N}, T:\text{Type}, R:(T \rightarrow T \rightarrow \text{prop}\{\text{!}\}), x,y:T.$
 $(x \text{ rel_exp}(T; R; n) y)$
 $\iff ((\exists z:T. ((0 < n) \wedge ((x \text{ rel_exp}(T; R; (n - 1)) z) \wedge (z R y))))$
 $\quad \vee ((n = 0 \in \mathbb{Z}) \wedge (x = y)))$