

rel_exp_iff^{0,22}

$\forall n:\mathbb{N}, T:\text{Type}, R:(T \rightarrow T \rightarrow \text{Prop}), x, y:T.$

$(x \text{ rel_exp}(T;R;n) y) \Leftrightarrow (\exists z:T. 0 < n \ \& \ (x \text{ rel_exp}(T;R;n-1) z) \ \& \ (z R y)) \vee n = 0 \in \mathbb{Z} \ \& \ x = y$