trans_rel_self_functionality[12,41]

$\forall T$:Type, R:($T \to T \to \mathbb{P}$).
Trans(T;x,y.$R(x,y)$) $\Rightarrow$ $\{\forall a,\ a',\ b,\ b'{:}T.\ R(b,a) \Rightarrow R(a',b') \Rightarrow R(a,a') \Rightarrow R(b,b')\}$

ProofTree

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http://www.nuprl.org/FDLcontent/p0_942988_/p15_4254_{trans_rel_self_functionality}.html