Inference at $*$ 2 1
 of proof for Lemma squash_thru_equiv_rel:

1. T : Type
2. E : $T \rightarrow T \rightarrow \mathbb{P}$
3. ($\forall a{:}T.\ E(a,a)$) & ($\forall a,\ b{:}T.\ E(a,b) \Rightarrow E(b,a)$) & ($\forall a,\ b,\ c{:}T.\ E(a,b) \Rightarrow E(b,c) \Rightarrow E(a,c)$)
4. a : T
5. b : T
6. $E(a,b)$

$\vdash E(b,a)$

 by ((Sel 2 (BackThruHyp 3))
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
 ),(first_nat 4:n)) (first_tok :t) inil_term)))·

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_81083_{squash_thru_equiv_rel}2_1.html