Inference at $*$ 2
 of proof for Lemma trans_imp_sp_trans_b:

1. T : Type
2. R : $T \rightarrow T \rightarrow \mathbb{P}$
3. $\forall a, b, c{:}T.\ R(a,b) \Rightarrow R(b,c) \Rightarrow R(a,c)$
4. a : T
5. b : T
6. c : T
7. $R(a,b)$
8. $\neg R(b,a)$
9. $R(b,c)$

$\vdash \neg R(c,a)$

 by ((((D 0)
 CollapseTHENM (D 8))·)
 CollapseTHEN ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

 1:

 8. $R(b,c)$
 9. $R(c,a)$
 $\vdash R(b,a)$

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