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

1. T : Type
2. R : $T \to T \to \mathbb{P}$
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. $R(b,c)$
10. $\neg R(c,b)$

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

by ((((D 0)
CollapseTHENM (D 10))·)
CollapseTHENA ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

10. $R(c,a)$

$\vdash R(c,b)$

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