

Inference at * 1
of proof for Lemma trans_imp_sp_trans:

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1.  $T : \text{Type}$ 
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.  $R(b, c)$ 
10.  $\neg R(c, b)$ 
 $\vdash R(a, c)$ 
  by ((FHyp 3 [7;9])
    CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
      ), (first_nat 4:n)) (first_tok :t) inil_term))))

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