Inference at $*$ 1 1
 of proof for Lemma trans_rel_func_wrt_sym_self:

1. T : Type
2. R : $T \to T \to \mathbb{P}$
3. Trans(T;x,y.$R(x,y)$)
4. a : T
5. a' : T
6. b : T
7. b' : T
8. $R(a,b)$
9. $R(b,a)$
10. $R(a',b')$
11. $R(b',a')$
12. $R(a,a')$
13. $\forall a,\ a',\ b,\ b'{:}T.\ R(b,a) \Rightarrow R(a',b') \Rightarrow R(a,a') \Rightarrow R(b,b')$

$\vdash R(b,b')$
 by ((FHyp (-1) [9;10;12])
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
 ),(first_nat 4:n)) (first_tok :t) inil_term)))·

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