Inference at $*$ 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. $R(a,a')$

$\vdash R(b,b')$

by ((FLemma 'trans_rel_self_functionality' [3])
CollapseTHENA ((Auto_aux (first_nat
1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

13. $\forall a,\ a',\ b,\ b'{:}T.\ R(b,a) \Rightarrow R(a',b') \Rightarrow R(a,a') \Rightarrow R(b,b')$

$\vdash R(b,b')$

.