Inference at $*$ 1
 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. $R(b,c)$

$\vdash R(a,c)$

 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)))·

 .

---

http://www.nuprl.org/FDLcontent/p0_942988_/p121_79323_{trans_imp_sp_trans_b}1.html