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

1. T_1 : Type
2. T_2 : Type
3. r_1 : $T_1 \rightarrow T_1 \rightarrow \mathbb{P}$
4. r_2 : $T_2 \rightarrow T_2 \rightarrow \mathbb{P}$
5. $T_1 = T_2$
6. $\forall x, y{:}T_1.\ r_1(x,y) \iff r_2(x,y)$

$\vdash$ $T_1 = T_2$

by (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_96059_{wellfounded_functionality_wrt_iff}1_1_1.html