

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

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1.  $T_1 : \text{Type}$ 
2.  $T_2 : \text{Type}$ 
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)
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