

Inference at * 1 1 2
of proof for Lemma wellfounded_functionality_wrt_iff:

```

1. T1 : Type
2. T2 : Type
3. r1 : T1 → T1 →  $\mathbb{P}$ 
4. r2 : T2 → T2 →  $\mathbb{P}$ 
5. T1 = T2
6.  $\forall x,y:T_1. r_1(x,y) \iff r_2(x,y)$ 
 $\vdash \forall x,y:T_1. \{r_1(x,y) \Leftarrow r_2(x,y)\}$ 
  by ((((((Unfold 'guard' 0)
    CollapseTHENM (UnivCD)))·)
    CollapseTHENM (BackThruHyp 6)))·
  )
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)
  )) (first_tok :t) inil_term)))·
.

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