Inference at $*$ 1 2 1 1
of proof for Lemma wellfounded_functionality_wrt_implies:

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. $\forall x, y{:}T_1.\ r_1(x,y) \Leftarrow r_2(x,y)$
7. P : $T_2 \rightarrow \mathbb{P}$
8. j : T_1
9. $\forall k{:}T_1.\ r_1(k,j) \Rightarrow P(k)$
10. k : T_2
11. $r_2(k,j)$

$\vdash P(k)$

by ((((BackThruHyp 9)
CollapseTHEN (Thin 9))·)
CollapseTHEN ((Auto_aux (first_nat
1:n) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t) inil_term)))·

1:

9. k : T_2
10. $r_2(k,j)$

$\vdash r_1(k,j)$

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