

Inference at * 1
of proof for Lemma wellfounded_functionality_wrt_implies:

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. $\forall x, y: T_1. r_1(x, y) \Leftarrow r_2(x, y)$
 7. $\forall P: (T_1 \rightarrow \mathbb{P}). (\forall j: T_1. (\forall k: T_1. r_1(k, j) \Rightarrow P(k)) \Rightarrow P(j)) \Rightarrow \{\forall n: T_1. P(n)\}$
 8. $P : T_2 \rightarrow \mathbb{P}$
 9. $\forall j: T_2. (\forall k: T_2. r_2(k, j) \Rightarrow P(k)) \Rightarrow P(j)$
- $\vdash \forall n: T_2. P(n)$
by SubstClause $\forall n: T_1. P(n)$ 0

1:equality..... NILNIL

$\vdash (\forall n: T_2. P(n)) = (\forall n: T_1. P(n))$

2:

$\vdash \forall n: T_1. P(n)$

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