

Inference at * 1
of proof for Lemma inv_image_ind_tp:

1. $T : \text{Type}$
2. $r : T \rightarrow T \rightarrow \mathbb{P}$
3. $S : \text{Type}$
4. $f : S \rightarrow T$
5. $\text{WellFnd}\{i\}(T; x, y. r(x, y))$

 $\vdash \text{WellFnd}\{i\}(S; x, y. r(f(x), f(y)))$
by UnfoldTopAb 0

1:

$$\vdash \forall P : (S \rightarrow \mathbb{P}). (\forall j : S. (\forall k : S. r(f(k), f(j)) \Rightarrow P(k)) \Rightarrow P(j)) \Rightarrow \{\forall n : S. P(n)\}$$

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