Inference at $*$ 1
of proof for Lemma inv_image_ind_tp:

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

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

1:

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

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_96841_{inv_image_ind_tp}1.html