

Inference at *
of proof for Lemma inv_image_ind_tp:

$\vdash \forall T:\text{Type}, r:(T \rightarrow T \rightarrow \mathbb{P}), S:\text{Type}, f:(S \rightarrow T).$
 $\text{WellFnd}\{i\}(T;x,y.r(x,y)) \Rightarrow \text{WellFnd}\{i\}(S;x,y.r(f(x),f(y)))$
by ((UnivCD)
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
)) (first_tok :t) inil_term)))

1:

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