

Inference at * 1
of proof for Lemma inv_image_ind_a:

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1. T : Type
2. r : T → T → ℙ
3. S : Type
4. f : S → T
5. WellFnd{i}(T;x,y.r(x,y))
⊢ WellFnd{i}(S;x,y.r(f(x),f(y)))
  by (((RepUnfolds “wellfounded guard“ 0)
    CollapseTHEN (RepD)).)
CollapseTHEN (
  (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

6. P : S → ℙ
7. ∀j:S. (∀k:S. r(f(k),f(j)) ⇒ P(k)) ⇒ P(j)
8. n : S
⊢ P(n)
.
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