

Inference at *
of proof for Lemma `inv_image_ind_a`:

```
⊢∀T:Type, r:(T→T→ ℙ), S:Type, f:(S→T).
  WellFnd{i}(T;x,y.r(x,y)) ⇒ WellFnd{i}(S;x,y.r(f(x),f(y)))
  by ((RepD)
  CollapseTHENA ((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. $\text{WellFnd}\{i\}(T;x,y.r(x,y))$
 $\vdash \text{WellFnd}\{i\}(S;x,y.r(f(x),f(y)))$
- .