

Inference at * 1 2 1

of proof for Lemma wellfounded_functionality_wrt_implies:

```
1. T1 : Type
2. T2 : Type
3. r1 : T1 → T1 → ℙ
4. r2 : T2 → T2 → ℙ
5. T1 = T2
6. ∀ x, y : T1. r1(x, y) ⇐ r2(x, y)
7. P : T2 → ℙ
8. ∀ j : T2. (∀ k : T2. r2(k, j) ⇒ P(k)) ⇒ P(j)
9. j : T1
10. ∀ k : T1. r1(k, j) ⇒ P(k)
⊢ P(j)
  by (((BackThruHyp 8)
    CollapseTHEN (Thin 8)).)
CollapseTHEN ((Auto_aux (first_nat
  1:n) ((first_nat 1:n), (first_nat 3:n)) (first_tok :t) inl_term)))
```

1:

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8. j : T1
9. ∀ k : T1. r1(k, j) ⇒ P(k)
10. k : T2
11. r2(k, j)
⊢ P(k)
.
```