

Inference at * 1
of proof for Lemma trans_functionality_wrt_iff:

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1. T : Type
2. R : T → T → ℙ
3. R' : T → T → ℙ
4. ∀ x, y : T. R(x, y) ⇔ R'(x, y)
⊢ (∀ a, b, c : T. R(b, a) ⇒ R(c, b) ⇒ R(c, a))
  ⇔ (∀ a, b, c : T. R'(b, a) ⇒ R'(c, b) ⇒ R'(c, a))
  by InteriorProof ((RWH (HypC 4) 0)
    CollapseTHEN (Auto_aux (first_nat 1:n
      ) ((first_nat 1:n), (first_nat 3:n)) (first_tok :t) inil_term)))

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1:

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⊢ (∀ a, b, c : T. R'(b, a) ⇒ R'(c, b) ⇒ R'(c, a))
  ⇔ (∀ a, b, c : T. R'(b, a) ⇒ R'(c, b) ⇒ R'(c, a))
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