

Inference at \* 1  
of proof for Lemma anti\_sym\_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)
⊢ (∀x, y:T. R'(x,y) ⇒ R'(y,x) ⇒ (x = y)) ⇔ (∀x, y:T. R'(x,y) ⇒ R'(y,x) ⇒ (x = y))
  by ((RelRST)
    CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)
      )) (first_tok :t) inil_term)))

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