

Inference at * 1
of proof for Lemma decidable__quotient_equal:

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1. T : Type
2. E : T → T → ℙ
3. EquivRel(T;x,y.E(x,y))
4. ∀x, y:T. Dec(E(x,y))
⊢ ∀u, v:(x,y:T//E(x,y)). Dec(u = v)
  by ((OnMCls [0;4] (RWO "dec_iff_ex_bvfun"))
    CollapseTHENA ((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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4. ∃f:T→T→ℕ. (∀x, y:T. (↑(x f y)) ⇔ E(x,y))
⊢ ∃f:(x,y:T//E(x,y))→(x,y:T//E(x,y))→ℕ
  (∀u, v:(x,y:T//E(x,y)). (↑(u f v)) ⇔ (u = v))
.

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