

Inference at * 1 2
of proof for Lemma all_quot_elim:

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1. T : Type
2. E : T → T → ℙ
3. EquivRel(T;x,y.E(x,y))
4. F : (x,y:T // (E(x,y))) → ℙ
5. ∀w:(x,y:T // (E(x,y))). SqStable(F(w))
6. ∀z:T. F(z)
7. z : x,y:T // (E(x,y))
⊢ F(z)
  by (((Unfold 'sq_stable' 5)
CollapseTHEN (BackThruHyp 5)).)
CollapseTHENA (
  (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t) inil_term))).

1:

5. ∀w:(x,y:T // (E(x,y))). (↓(F(w))) ⇒ (F(w))
6. ∀z:T. F(z)
7. z : x,y:T // (E(x,y))
⊢ ↓(F(z))
.
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