Inference at $*$ 1
 of proof for Lemma neg_assert_of_eq_atom:

1. x : Atom
2. y : Atom
$\vdash(\neg(x = y)) \iff x \neq y \in$ Atom
  by ((Unfold ‘nequal‘ 0)
  CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
    ),(first_nat 3:n)) (first_tok :t) inil_term)))·

    .