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

1. x : Atom
2. y : Atom
3. x =a $y \sim$ ff

$\vdash \neg(x = y)$

by (\p. let x, y = dest_sqequal (h (-1) p) in
(Assert (
mk_equal_term bool_term y y)
THENL [(Auto_aux (first_nat 1:n) ((first_nat 1:n
),(first_nat 3:n)) (first_tok :t) inil_term); SqSubstAtAddr [2] x (-1)

THENL [(Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n
)) (first_tok :t) inil_term); Id]]) p)

1:

4. x =a y = ff

$\vdash \neg(x = y)$

.