Inference at $*$ 1 2 1
of proof for Lemma eq_atom_eq_false_elim_sqequal:

. . . . .subterm. T:t1:n

1. x : Atom
2. y : Atom
$\vdash$ x =a y $\sim$ x =a y
by (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t) inil_term)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_85669_{eq_atom_eq_false_elim_sqequal}1_2_1.html