Inference at $*$ 1 1 3 2
of proof for Lemma decidable__atom_equal:

. . . . .eq aux. . . . . NILNIL

1. a : Atom
2. b : Atom
3. $a = b$

$\vdash$ $(\neg(a = b)) \in$ Type
by (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_102724_{decidable__atom_equal}1_1_3_2.html