Inference at $*$
of proof for Lemma decidable_atom_equal:

$\vdash \forall a, b$:Atom. Dec$(a = b)$
by ((((Unfold ‘decidable‘ 0)
CollapseTHENM (RepD))·)
CollapseTHENA (
(Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

1. a : Atom
2. b : Atom
$\vdash (a = b) \vee (\neg(a = b))$

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