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

. . . . .wf. . . . . NILNIL

1. x : Atom
2. y : Atom
$\vdash$ (x =a y $\sim$ tt) $\in$ Type
by MemCD

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

$\vdash$ x =a y $\sim$ x =a y
2: . . . . .subterm. T:t2:n

$\vdash$ tt $\sim$ tt
.

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_85817_{eq_atom_eq_true_elim_sqequal}1_2.html