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

1. x : Atom
2. y : Atom
$\vdash$ $(x =\text{a } y \sim \text{tt}) \Rightarrow (x = y)$
by D 0

1:

3. $x =\text{a } y \sim \text{tt}$
$\vdash$ $x = y$

2: . . . . .wf. . . . . NILNIL

$\vdash$ $(x =\text{a } y \sim \text{tt}) \in \text{Type}$

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