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

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

1:

3. $x =\text{a } y \sim \text{ff}$
$\vdash$ $\neg(x = y)$

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

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

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