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

1. $i : \mathbb{Z}$
2. $j : \mathbb{Z}$
$\vdash (i <\text{z } j \sim \text{tt}) \Rightarrow (i < j)$
by D 0

1:

3. $i <\text{z } j \sim \text{tt}$
$\vdash i < j$

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

$\vdash (i <\text{z } j \sim \text{tt}) \in \text{Type}$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_86113_{lt_int_eq_true_elim_sqequal}1.html