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

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

1. $i : \mathbb{Z}$
2. $j : \mathbb{Z}$
$\vdash$ (i <z j $\sim$ tt) $\in$ Type
  by MemCD

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

    $\vdash$ i <z j $\sim$ i <z j
  2: . . . . .subterm. T:t2:n

    $\vdash$ tt $\sim$ tt
  .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_86113_{lt_int_eq_true_elim_sqequal}1_2.html