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

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

1. $i : \mathbb{Z}$
2. $j : \mathbb{Z}$
$\vdash ((i =_0 j) \sim \text{tt}) \in \text{Type}$
  by MemCD

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

    $\vdash (i =_0 j) \sim (i =_0 j)$
  2: . . . . .subterm. T:t2:n

    $\vdash \text{tt} \sim \text{tt}$
  .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_86405_{eq_int_eq_true_elim_sqequal}1_2.html