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

. . . . .subterm. T:t2:n

1. $\mathbb{Z}$
2. $\mathbb{Z}$
$\vdash$ tt $\sim$ tt
  by (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t) inil_term)

  .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_86113_{lt_int_eq_true_elim_sqequal}1_2_2.html