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

1. $i : \mathbb{Z}$
2. $j : \mathbb{Z}$
3. $i <\text{z } j \sim \text{tt}$
4. $i <\text{z } j = \text{tt}$

$\vdash i < j$

 by ((RW bool_to_propC (-1))
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
 ),(first_nat 3: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_1_1.html