

Inference at * 1 1 1
of proof for Lemma lt_int_eq_false_elim_sqeual:

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1.  $i : \mathbb{Z}$ 
2.  $j : \mathbb{Z}$ 
3.  $i <_Z j \sim \text{ff}$ 
4.  $i <_Z j = \text{ff}$ 
 $\vdash \neg(i < j)$ 
  by InteriorProof ((RW bool_to_propC (-1))
    CollapseTHEN ((Auto_aux (first_nat 1:n
      ) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t) inil_term)))

```