

Inference at * 1
of proof for Lemma eq_int_eq_true_elim:

```

1.  $i : \mathbb{Z}$ 
2.  $j : \mathbb{Z}$ 
3.  $(i =_0 j) = \text{tt}$ 
 $\vdash i = j$ 
  by ((Decide  $i = j$ )
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
), (first_nat 4:n)) (first_tok :t) inil_term))))).

```

1:

```

4.  $\neg(i = j)$ 
 $\vdash i = j$ 
.

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