

Inference at \* 1 1  
of proof for Lemma eq\_int\_eq\_true\_elim:

```
1. i : ℤ
2. j : ℤ
3. (i =0 j) = tt
4. ¬(i = j)
⊢ i = j
  by ((RWH (LemmaC 'eq_int_eq_false') 3)
      CollapseTHENA ((Auto_aux (first_nat 1:n)
                               ) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))
```

1:

```
3. ff = tt
4. ¬(i = j)
⊢ i = j
.
```