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

1. $i : \mathbb{Z}$
2. $j : \mathbb{Z}$
3. $(i =_0 j) = \text{ff}$
4. $i = j$

$\vdash i \neq j$

 by ((RWH (LemmaC ‘eq_int_eq_true‘) 3)
 CollapseTHENA ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

 1:

 3. tt = ff
 4. $i = j$
 $\vdash i \neq j$

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