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

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

$\vdash i = j$

 by ((((SwapEquands 3)
 CollapseTHEN (AssertLemma ‘btrue_neq_bfalse‘ []))·)

  CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t
) inil_term)))·

 .