Inference at $*$
of proof for Lemma decidable_int_equal:

$\vdash \forall i, j{:}\mathbb{Z}.\ \mathrm{Dec}(i = j)$
by ((((RepD)
CollapseTHENM (UnfoldTopAb 0))·)
CollapseTHENA ((Auto_aux (first_nat
1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

1. $i : \mathbb{Z}$
2. $j : \mathbb{Z}$
$\vdash (i = j) \vee (\neg(i = j))$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_102830_{decidable__int_equal}.html