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

1. $i : \mathbb{Z}$
2. $n : \mathbb{N}$
$\vdash (|i| > n) \iff ((i < (\text{-}n)) \vee (i > n))$
by InteriorProof ((((Unfold ‘absval‘ 0)
CollapseTHEN (SplitOnConclITE))·)

CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

1: . . . . .truecase. . . . . NILNIL

3. $0 \leq i$
$\vdash (i > n) \iff ((i < (\text{-}n)) \vee (i > n))$

2: . . . . .falsecase. . . . . NILNIL

3. $i < 0$
$\vdash ((\text{-}i) > n) \iff ((i < (\text{-}n)) \vee (i > n))$

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