Inference at $*$
of proof for Lemma absval_lbound:

$\vdash \forall i{:}\mathbb{Z},\ n{:}\mathbb{N}.\ (|i| > n) \iff ((i < (\text{-}n)) \vee (i > n))$
by ((UnivCD)
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. $n : \mathbb{N}$
$\vdash (|i| > n) \iff ((i < (\text{-}n)) \vee (i > n))$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_73204_{absval_lbound}.html