Inference at $*$ 1 2
of proof for Lemma absval_lbound:

.....falsecase..... NILNIL

1. $i : \mathbb{Z}$
2. $n : \mathbb{N}$
3. $i < 0$

$\vdash ((\text{-}i) > n) \iff ((i < (\text{-}n)) \vee (i > n))$
by (Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok SupInf:t
) inil_term)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_73204_{absval_lbound}1_2.html