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

. . . . .truecase. . . . . NILNIL

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

$\vdash (i \leq n) \iff (((\text{-}n) \leq i)\ \&\ (i \leq n))$
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_73542_{absval_ubound}1_1.html