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

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
$\vdash$(-if a $\leq$z b then b else a fi) = if (-a) $\leq$z -b then -a else -b fi
  by InteriorProof ((SplitOnConclITEs)
  CollapseTHEN ((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_72896_{minus_imax}1.html