

Inference at *
of proof for Lemma neg_mul_arg_bounds:

$\vdash \forall a, b : \mathbb{Z}. ((a * b) < 0) \iff (((a < 0) \ \& \ (b > 0)) \vee ((a > 0) \ \& \ (b < 0)))$
by (((RepD)
CollapseTHENM (InstLemma 'pos_mul_arg_bounds' [-a;b])).)

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

1:

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $(((-a) * b) > 0) \iff ((((-a) > 0) \ \& \ (b > 0)) \vee (((-a) < 0) \ \& \ (b < 0)))$
 $\vdash ((a * b) < 0) \iff (((a < 0) \ \& \ (b > 0)) \vee ((a > 0) \ \& \ (b < 0)))$

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