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

. . . . .assertion. . . . . NILNIL

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $n : \mathbb{Z}$
4. $(a+n) < (b+n)$

$\vdash (a+n+(-n)) < (b+n+(-n))$

by InteriorProof ((BackThruLemma 'add_functionality_wrt_lt')
CollapseTHEN (
(Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok
:t) inil_term)))·

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_76908_{add_cancel_in_lt}1_1.html