Inference at $*$
 of proof for Lemma add_cancel_in_lt:

$\vdash \forall a, b, n{:}\mathbb{Z}.\ ((a+n) < (b+n)) \Rightarrow (a < b)$
 by ((UnivFmlaCD [])
 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. $n : \mathbb{Z}$
 4. $(a+n) < (b+n)$
 $\vdash a < b$

 .

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