Inference at $*$
 of proof for Lemma add_cancel_in_eq:

$\vdash \forall a, b, n{:}\mathbb{Z}.\ (a{+}n = b{+}n) \Rightarrow (a = b)$
 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_76987_{add_cancel_in_eq}.html