Inference at $*$ 2
 of proof for Lemma add_mono_wrt_lt:

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

$\vdash a < b$

 by ((FwdThruLemma ‘add_cancel_in_lt‘ [4])
 CollapseTHEN ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t) inil_term)))·

 .