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

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

$\vdash a = b$

 by ((Using [‘n’,n] (BackThruLemma ‘add_cancel_in_eq‘))
 CollapseTHEN (
   (Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 4:n)) (first_tok :t) inil_term)))·

   .