

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)))·
.

```