

Inference at * 1
of proof for Lemma sub_functionality_wrt_le:

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1.  $i_1 : \mathbb{Z}$ 
2.  $i_2 : \mathbb{Z}$ 
3.  $j_1 : \mathbb{Z}$ 
4.  $j_2 : \mathbb{Z}$ 
5.  $i_1 \leq j_1$ 
6.  $i_2 \geq j_2$ 
 $\vdash (i_1 - i_2) \leq (j_1 - j_2)$ 
  by ((ArithSimp 0)
    CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n
      ),(first_nat 3:n)) (first_tok :t) inil_term))))

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1:

$$\vdash (i_1 + (-i_2)) \leq (j_1 + (-j_2))$$

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