Inference at $*$ 1
 of proof for Lemma sub_functionality_wrt_le:

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. $i_2 \geq j_2$

$\vdash (i_1 \text{ - } i_2) \leq (j_1 \text{ - } j_2)$

 by ((ArithSimp 0)
 CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n
 ),(first_nat 3:n)) (first_tok :t) inil_term)))·

 1:

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

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