

Inference at * 1 1 1
of proof for Lemma absval_elim:

1. $P : \mathbb{Z} \rightarrow \mathbb{P}$

2. $x : \mathbb{N}$

$\vdash (P(\text{if } 0 \leq_z x \text{ then } x \text{ else } -x \text{ fi})) \Rightarrow (P(x))$
by InteriorProof (((BoolCasesOnCExp $0 \leq_z x$)
CollapseTHENM (AbReduce 0)).)

CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat
3:n)) (first_tok :t) inil_term))).

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