

Inference at *
of proof for Lemma absval_elim:

$\vdash \forall P: (\mathbb{Z} \rightarrow \mathbb{P}). (\forall x: \mathbb{Z}. P(|x|)) \iff (\forall x: \mathbb{N}. P(x))$
by (((Unfolds “guard so_apply“ 0)
CollapseTHEN (GenUnivCD)).)
CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n) (first_tok :t) inil_term))))).

1:

1. $P : \mathbb{Z} \rightarrow \mathbb{P}$
 2. $\forall x: \mathbb{Z}. P(|x|)$
 3. $x : \mathbb{N}$
- $\vdash P(x)$

2:

1. $P : \mathbb{Z} \rightarrow \mathbb{P}$
 2. $\forall x: \mathbb{N}. P(x)$
 3. $x : \mathbb{Z}$
- $\vdash P(|x|)$

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