

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

1. $P : \mathbb{N} \rightarrow \mathbb{P}\{\mathbf{k}\}$
 2. $P(0)$
 3. $\forall i:\mathbb{N}^+. P(i - 1) \Rightarrow P(i)$
 4. $i : \mathbb{Z}$
 5. $i < 0$
 6. $((i + 1) \geq 0) \Rightarrow P(i + 1)$
 7. $i \geq 0$
- $\vdash P(i)$
by Arith

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