

Inference at * 1 1 1 3
of proof for Lemma nat_ind_tp:

.....upcase..... NILNIL

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

1:

7. $i \geq 0$
 - $\vdash P(i)$
- 2:wf..... NILNIL

$\vdash (i \geq 0) \in \mathbb{P}_1$

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