

Inference at * 1 1 1 2
of proof for Lemma nat_ind_tp:

.....basecase..... NILNIL

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

1:

4. $0 \geq 0$
 $\vdash P(0)$
2:wf..... NILNIL

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

.