

Inference at * 1 0 1 3 1 1
of proof for Lemma nat_ind:

.....antecedent..... NILNIL

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

1:wf..... NILNIL

$\vdash (j - 1) \in \mathbb{Z}$

2:wf..... NILNIL

$\vdash 0 \in \mathbb{Z}$

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