Inference at $*$ 1 0 1 3 1 1 2
of proof for Lemma nat_ind:

. . . . .wf. . . . . NILNIL

1. $P : \mathbb{N} \to \mathbb{P}\{\mathrm{k}\}$
2. $P(0)$
3. $\forall i{:}\mathbb{N}^+.\ P(i - 1) \Rightarrow P(i)$
4. $j : \mathbb{Z}$
5. $0 < j$

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

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_93428_{nat_ind}1_0_1_3_1_1_2.html