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

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

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

$\vdash (j \geq 0\ ) \in \mathbb{P}_1$
  by ((MemEqCD)
  CollapseTHEN (MemEqCD))·

    .

---

http://www.nuprl.org/FDLcontent/p0_942988_/p121_93428_{nat_ind}1_0_1_3_2.html