Inference at * 1 2
 of proof for Lemma nat_ind:

. . . . .upcase. . . . . 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. $P(j - 1)$

$\vdash P(j)$

 by ((BackThruHyp 3)
 CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n
 ),(first_nat 3:n)) (first_tok :t) inil_term)))·

 .

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http://www.nuprl.org/FDLcontent/p0_359040_/p121_93428_{nat_ind}1_2.html