Inference at $*$ 1 1 1 3 1
of proof for Lemma nat_ind_tp:

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

$\vdash P(i)$
by ((Thin (-1))
CollapseTHEN (D (-1)))·

1: .....antecedent..... NILNIL

5. $0 < i$
$\vdash (i - 1) \geq 0$

2:

6. $P(i - 1)$
$\vdash P(i)$

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http://www.nuprl.org/FDLcontent/p0_359040_/p121_94355_{nat_ind_tp}1_1_1_3_1.html