Inference at $*$
of proof for Lemma nat_ind_tp:

$\vdash \forall P{:}(\mathbb{N} \to \mathbb{P}\{\mathrm{k}\}).\ P(0) \Rightarrow (\forall i{:}\mathbb{N}^+.\ P(i - 1) \Rightarrow P(i)) \Rightarrow (\forall i{:}\mathbb{N}.\ P(i))$
by ((UnivCD)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n
)) (first_tok :t) inil_term)))·

1:

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

$\vdash P(i)$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_94355_{nat_ind_tp}.html