

Inference at *
of proof for Lemma nat_ind_tp:

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

1:

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