

Inference at * 1
of proof for Lemma nat_well_founded:

$\vdash \forall P: (\mathbb{N} \rightarrow \mathbb{P}). (\forall j: \mathbb{N}. (\forall k: \mathbb{N}. (k < j) \Rightarrow P(k)) \Rightarrow P(j)) \Rightarrow \{\forall n: \mathbb{N}. P(n)\}$
by ((RepD)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term))).

1:

1. $P : \mathbb{N} \rightarrow \mathbb{P}$
 2. $\forall j: \mathbb{N}. (\forall k: \mathbb{N}. (k < j) \Rightarrow P(k)) \Rightarrow P(j)$
- $\vdash \forall n: \mathbb{N}. P(n)$
- .