

Inference at * 1 2
of proof for Lemma p-mu-exists:

1. $P : \mathbb{N} \rightarrow \mathbb{B}$
 2. $n : \mathbb{N}$
 3. $\forall n_1 : \mathbb{N}. (n_1 < n) \Rightarrow (\uparrow(P(n_1))) \Rightarrow (\exists x : \mathbb{N} + \text{Top}. \text{p-mu}(P;x))$
 4. $\uparrow(P(n))$
 5. $\neg(\exists i : \{0..n^-\}. (\uparrow(P(i))))$
- $\vdash \exists x : \mathbb{N} + \text{Top}. \text{p-mu}(P;x)$
by (InstConcl [inl n])
CollapseTHEN ((Auto·)
CollapseTHEN ((RepUR “p-mu“ (0)·)
- CollapseTHEN ((Auto·)
CollapseTHEN ((ParallelOp (-2)·)
CollapseTHEN ((InstConcl [i
])
CollapseTHEN (Auto·)·)·)·)·)