

Inference at * 1 1
of proof for Lemma can-apply-mu':

1. $A : \text{Type}$
 2. $P : A \rightarrow \mathbb{N} \rightarrow \mathbb{B}$
 3. $\forall x:A. \text{Dec}(\exists n:\mathbb{N}. (\uparrow(P(x,n))))$
 4. $x : A$
 5. Top
 6. $\forall i:\mathbb{N}. \neg(\uparrow(P(x,i)))$
 7. $\exists n:\mathbb{N}. (\uparrow(P(x,n)))$
- $\vdash \text{False}$
by (ExRepD)
CollapseTHEN ((InstHyp [n] (-3))
CollapseTHEN (Auto·)·)