

Inference at *
of proof for Lemma ax_choice:

$\vdash \forall A, B:\text{Type}, Q:(A \rightarrow B \rightarrow \mathbb{P}). (\forall x:A. \exists y:B. Q(x,y)) \Rightarrow (\exists f:A \rightarrow B. (\forall x:A. Q(x,f(x))))$
by ((UnivCD)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
)) (first_tok :t) inil_term)))

1:

1. $A : \text{Type}$
 2. $B : \text{Type}$
 3. $Q : A \rightarrow B \rightarrow \mathbb{P}$
 4. $\forall x:A. \exists y:B. Q(x,y)$
- $\vdash \exists f:A \rightarrow B. (\forall x:A. Q(x,f(x)))$

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