Inference at $*$
of proof for Lemma ax_choice:

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

$\vdash \exists f$:$A \to B$. ($\forall x$:A. $Q(x,f(x))$)

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_84580_{ax_choice}.html