ax_choice[12,41]

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

ProofTree

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http://www.nuprl.org/FDLcontent/p0_942988_/p15_3877_{ax_choice}.html