dep_ax_choice[12,41]

$\forall A$:Type, B:(A→Type), Q:(x:A→$B(x)$→Type).
$(\forall x{:}A.\ \exists y{:}B(x).\ Q(x,y)) \Rightarrow (\exists f{:}x{:}A\rightarrow B(x).\ (\forall x{:}A.\ Q(x,f(x))))$

ProofTree

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http://www.nuprl.org/FDLcontent/p0_942988_/p15_3882_{dep_ax_choice}.html