$$\begin{array}{c}
 & p \\
 & p \\
 & q = \phi(p) \\
 & \Rightarrow x \\
 & x(q) = \Lambda^{-1}(x(p) - a)
\end{array}$$

$$\begin{array}{c}
 & x'(q) = x(p) = \Lambda x(q) + a \\
 & x'
\end{array}$$