$$\begin{array}{ccc}
\widehat{H}^{-1}(H, A') & \xrightarrow{\;\sim\;} & \widehat{H}^0(H, A) \\
\downarrow{\scriptstyle\text{cores}} & & \downarrow{\scriptstyle\text{cores}} \\
\widehat{H}^{-1}(G, A') & \xrightarrow{\;\sim\;} & \widehat{H}^0(G, A)
\end{array}$$