

$$\begin{array}{ccc}
H \circ F(x) & \xrightarrow{H(F(\eta_{K(\Gamma(x))}))} & H \circ F(K(\Gamma(x))) \\
& \searrow H(\varphi_x) & \nearrow H(\psi_{\Gamma(x)}) \\
& H \circ G(\Gamma(x)) & \\
H \circ G(x) & \xrightarrow{H(G(\eta_{\Gamma(K(x))}))} & H \circ G(\Gamma(K(x))) \\
& \searrow H(\psi_x) & \nearrow H(\varphi_{K(x)}) \\
& H \circ F(K(x)) &
\end{array}$$