



\rightsquigarrow

$$\begin{array}{ccc}
 H_1 H_2 & \xrightarrow{\sim} & (L_1 \cap L_2)^* / N_{L_1 L_2 / L_1 \cap L_2} (L_1 L_2)^* \\
 \downarrow & & \downarrow N_{L_1 \cap L_2 / K} \\
 G & \xrightarrow[r]{\sim} & K^* / N_{L_1 L_2 / K} (L_1 L_2)^* \\
 \uparrow & & \uparrow N_{L_i / K} \\
 H_i & \xrightarrow[r_i]{\sim} & L_i^* / N_{L_1 L_2 / L_i} (L_1 L_2)^*
 \end{array}$$