

$$\begin{array}{ccc}
 G & \xrightarrow{i} & (R[G])^\times \\
 & \searrow \varphi & \downarrow (h)^\times \\
 & & (K)^\times
 \end{array}
 \qquad
 \begin{array}{c}
 R[G] \\
 \downarrow h \\
 K
 \end{array}$$