

$$\begin{array}{ccc}
L^* & \xrightarrow{\theta_{E/L}} & H/H' \cong L^*/N_{E/L}E^* \\
\downarrow N_{L/F} & & \downarrow i \\
F^* & \xrightarrow{\theta_{E/F}} & HG'/(HG')' \cong P/P' \cong F^*/N_{E/F}E^* \\
\downarrow N_{F/K} & & \downarrow j \\
K^* & \xrightarrow{\theta_{E/K}} & G/G' \cong K^*/N_{E/K}E^*
\end{array}$$