

$$\begin{array}{ccccccccccc}
& & \vdots & & \vdots & & \vdots & & & & \\
& & \downarrow & & \downarrow & & \downarrow & & & & \\
\cdots & \longrightarrow & H_{p+q}(K^{p-3}) & \longrightarrow & H_{p+q}(K^{p-3}/K^{p-4}) & \longrightarrow & H_{p+q-1}(K^{p-4}) & \longrightarrow & H_{p+q-1}(K^{p-4}/K^{p-5}) & \longrightarrow & H_{p+q-2}(K^{p-5}) & \longrightarrow & \cdots \\
& & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \\
\cdots & \longrightarrow & H_{p+q}(K^{p-2}) & \longrightarrow & H_{p+q}(K^{p-2}/K^{p-3}) & \longrightarrow & H_{p+q-1}(K^{p-3}) & \longrightarrow & H_{p+q-1}(K^{p-3}/K^{p-4}) & \longrightarrow & H_{p+q-2}(K^{p-4}) & \longrightarrow & \cdots \\
& & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \\
\cdots & \xrightarrow{k} & H_{p+q}(K^{p-1}) & \longrightarrow & H_{p+q}(K^{p-1}/K^{p-2}) & \longrightarrow & H_{p+q-1}(K^{p-2}) & \longrightarrow & H_{p+q-1}(K^{p-2}/K^{p-3}) & \longrightarrow & H_{p+q-2}(K^{p-3}) & \longrightarrow & \cdots \\
& & \downarrow i & & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \\
\cdots & \longrightarrow & H_{p+q}(K^p) & \xrightarrow{j} & H_{p+q}(K^p/K^{p-1}) & \xrightarrow{k} & H_{p+q-1}(K^{p-1}) & \longrightarrow & H_{p+q-1}(K^{p-1}/K^{p-2}) & \longrightarrow & H_{p+q-2}(K^{p-2}) & \longrightarrow & \cdots \\
& & \downarrow & & \downarrow i & & \downarrow & & \downarrow & & \downarrow & & \\
\cdots & \longrightarrow & H_{p+q}(K^{p+1}) & \longrightarrow & H_{p+q}(K^{p+1}/K^p) & \longrightarrow & H_{p+q-1}(K^p) & \xrightarrow{j} & H_{p+q-1}(K^p/K^{p-1}) & \xrightarrow{k} & H_{p+q-2}(K^{p-1}) & \longrightarrow & \cdots \\
& & \downarrow & & \downarrow & & \downarrow & & \downarrow i & & \downarrow & & \\
\cdots & \longrightarrow & H_{p+q}(K^{p+2}) & \longrightarrow & H_{p+q}(K^{p+2}/K^{p+1}) & \longrightarrow & H_{p+q-1}(K^{p+1}) & \longrightarrow & H_{p+q-1}(K^{p+1}/K^p) & \longrightarrow & H_{p+q-2}(K^p) & \xrightarrow{j} & \cdots \\
& & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \downarrow & & \\
& & \vdots & & \vdots & & \vdots & & \vdots & & \vdots & &
\end{array}$$