

$$\begin{array}{ccccccc}
 \dots & \longrightarrow & H^k(M) & \longrightarrow & H^k(U) \oplus H^k(V) & \longrightarrow & H^k(U \cap V) \\
 & & \downarrow \scriptstyle d^* & & & & \\
 & & H^{k+1}(M) & \longrightarrow & H^{k+1}(U) \oplus H^{k+1}(V) & \longrightarrow & H^{k+1}(U \cap V) \longrightarrow \dots
 \end{array}$$