$$\otimes \qquad \otimes \qquad \otimes \qquad \otimes \qquad \otimes$$

$$\dots \longleftarrow H_c^{n-q}(U \cup V) \stackrel{+}{\longleftarrow} H_c^{n-q}(U) \oplus H_c^{n-q}(V) \longleftarrow H_c^{n-q}(U \cap V) \stackrel{\mathrm{d}^*}{\longleftarrow} H_c^{n-q-1}(U \cup V) \longleftarrow \dots$$

$$\downarrow \int_{U \cup V} \qquad \qquad \downarrow \int_{U$$

 $\dots \longrightarrow H^q(U \cup V) \xrightarrow{\operatorname{res}} H^q(U) \oplus H^q(V) \xrightarrow{-} H^q(U \cap V) \xrightarrow{\operatorname{d}^*} H^{q+1}(U \cup V) \longrightarrow \dots$