$$\Rightarrow \quad {}'E_1^{p,q} \cong H_\delta^q(K^{p,*}).$$

$\lrcorner$

The differential d_1 is computed from $D = d+\delta$ on ${}'E_1$. Since $\delta = 0$ on ${}'E_1$, we see that $d_1 = d$ and

$${}'E_2^{p,q} = H^*({}'E_1^{p,q}, d_1) \cong H_d^p(H_\delta^q(K^{*,*})).$$

The last expression denotes the cohomology of

$$\cdots \to H_\delta^q(K^{p-1,*}) \xrightarrow{d} H_\delta^q(K^{p,*}) \xrightarrow{d} H_\delta^q(K^{p+1,*}) \to \cdots,$$

which has meaning, since $d\delta + \delta d = 0$. Summerizing:

Associated to a bigraded complex $(K^{*,*}; d, \delta)$ are two spectral sequences both abutting to the cohomology of the total complex and where

$$\begin{cases} {}'E_2^{p,q} \cong H_d^p(H_\delta^q(K^{*,*})) \\ {}''E_2^{p,q} \cong H_\delta^q(H_d^p(K^{*,*})). \end{cases}$$

$\ulcorner$

$$\begin{tikzcd} a + \square \in {}'E_0^{p,q} \arrow[r, "D"] & {}'E_0^{p,q+1} \\ a \in K^{p,q} \arrow[u] \arrow[u, "\cong"'] \arrow[r, "\delta"] & K^{p,q+1} \arrow[u, "\cong"'] \end{tikzcd}$$

$\Rightarrow \delta a = 0.$

$$\begin{tikzcd} a + \mathrm{Im}\, D \in \dfrac{\ker D}{\mathrm{Im}\, D} = {}'E_1^{p,q} \arrow[r, "D"] & {}'E_1^{p+1,q} \cong \dfrac{\ker D}{\mathrm{Im}\, D} \\ a + \mathrm{Im}\,\delta \in \dfrac{\ker \delta}{\mathrm{Im}\,\delta} \arrow[u] \arrow[u, "\cong"'] \arrow[r, "D = d+\delta"] & \dfrac{\ker\delta}{\mathrm{Im}\,\delta} \arrow[u, "\cong"'] \end{tikzcd}$$

$\Rightarrow$ We only need d. $\Rightarrow$ $d_1 = d : H_\delta^q(K^{p,*}) \to H_\delta^q(K^{p+1,*})$