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Both of spectral sequences abut to the hyperhomology
$H_*(E.(M)\otimes F.(N),\ \partial_M\otimes 1 \pm 1\otimes\partial_N)$. ⤶

Since tensoring with a free module preserves exact sequences, $'E_1^{p,q}=0$ for $q>0$ and $''E_1^{p,q}=0$ for $p>0$.

Γ $$'E^1_{p,q} = H_q(E_p\otimes F.(N),\ 1\otimes\partial_N)$$

$F_{q+1} \longrightarrow F_q \longrightarrow F_{q-1} \longrightarrow$

$\Rightarrow\ E_p\otimes F_{q+1} \longrightarrow E_p\otimes F_q \longrightarrow E_p\otimes F_{q-1}\ \cdots\ ⊛$

If $p\geq 0$, E_p free module. $\Rightarrow$ ⊛ exact sequence

$\Rightarrow\ 'E^1_{p,q}=0 \quad q\geq 1$

Similary, $''E^1_{p,q} = H_q(E.(M)\otimes F_p,\ \partial_M\otimes 1)$

If $p\geq 0$, F_p free $\Rightarrow$

$E_{q+1}\otimes F_p \longrightarrow E_q\otimes F_p \longrightarrow E_{q-1}\otimes F_p$ exact

$\Rightarrow$

$''E^1_{p,q}=0$.

$\mathbb{H}_n(E.(M)\otimes F.(N),\ \partial_M\otimes 1\pm 1\otimes\partial_N)=0$ if $n\leq -2$.

$'F_pK_n = 0$ if $p\leq -2$ $\quad 'F_{n+1}K_n = K_n = ''F_{n+2}K_n$

$''F_pK_n = 0$ if $p\leq -2$ $\Rightarrow$ $'F_p\mathbb{H}_n = ''F_p\mathbb{H}_n = 0$ if $p\leq -2$.

$\Rightarrow$ By Th. 11.13 on p 318. Rotman,

$$'E^\infty_{p,q} \cong {'F_p\mathbb{H}_{p+q}}/{'F_{p-1}\mathbb{H}_{p+q}} \quad\text{and}\quad ''E^\infty_{p,q} \cong {''F_p\mathbb{H}_{p+q}}/{''F_{p-1}\mathbb{H}_{p+q}}.$$

Since $'F_{p+q+1}K_{p+q} = K_{p+q}$, $\ 'F_{p+q+2}K_{p+q+1} = K_{p+q+1}$.