$$0 \longrightarrow \frac{'F^1H^2}{'F^2H^2} \longrightarrow \frac{H^2}{'F^2H^2} \longrightarrow \frac{H^2}{'F^1H^2} \longrightarrow 0$$

$$\Rightarrow \quad \frac{H^2}{'F^2H^2} = G = \underbrace{\frac{'F^1H^2}{'F^2H^2}}_{G/G'} \oplus \underbrace{\frac{H^2}{'F^1H^2}}_{G'}.$$

$$0 \longrightarrow {}'F^2H^2 \longrightarrow {}'F^1H^2 \longrightarrow {}'E^{1,1}_\infty \longrightarrow 0$$

$${}'E_2^{-1,2} = 0 \longrightarrow {}'E_2^{1,1} \xrightarrow{d_2} {}'E_2^{3,0} \quad \Rightarrow \quad \ker d_2 = {}'E_3^{1,1} \subset {}'E_2^{1,1}$$

$${}'E_3^{-2,3} = 0 \longrightarrow {}'E_3^{1,1} \xrightarrow{d_3} {}'E^{4,1-3+1} = 0$$

$$\Rightarrow {}'E^{1,1}_\infty = {}'E^{1,1}_4 = {}'E_3^{1,1} = \ker d_2 \subset {}'E_2^{1,1}$$

$$\Rightarrow \quad {}'E^{1,1}_\infty \subset {}'E_2^{1,1}$$

$$\Rightarrow \quad G/G' = \frac{'F^1H^2}{'F^2H^2} \cong {}'E^{1,1}_\infty \subset {}'E_2^{1,1} \quad \Rightarrow \quad G/G' \subset {}'E_2^{1,1}$$

$$\text{where } {}'E^{1,1}_\infty = \ker d_2 = {}'E_3^{1,1}$$

$$0 \longrightarrow {}'F^1H^2 \longrightarrow H^2 \longrightarrow {}'E^{0,2}_\infty \longrightarrow 0$$

$${}'E_2^{-2,3} = 0 \longrightarrow {}'E_2^{0,2} \xrightarrow{d_2} {}'E_2^{2,1}$$

$$\Rightarrow \quad {}'E_3^{0,2} = \ker d_2 \subset {}'E_2^{0,2}$$

$$\Rightarrow \quad {}'E_4^{0,2} = {}'E^{0,2}_\infty \subset {}'E_3^{0,2} = \ker d_2 \subset {}'E_2^{0,2}$$

$$\Rightarrow \quad \frac{H^2}{'F^1H^2} \cong {}'E^{0,2}_\infty = {}'E_4^{0,2} \subset \ker d_2 \subset {}'E_2^{0,2}$$