

$${}''E_2^{p,q} = H^p(M, \underline{\text{Ext}}_0^q(\mathcal{O}_Z, \Omega^n)) \\ = 0, \quad \text{unless } p=0 \text{ and } q=n.$$

By p706, & p446, here we put $'E_2^{p,q} = {}''E_2^{p,q}$ (on p710).
(on p446 & p706)

\Rightarrow By p690 & p706. $\underline{\text{Ext}}_0^q(\mathcal{O}_Z, \Omega^n) = 0$ for $q < n$.

Obviously $\underline{\text{Ext}}_0^q(\mathcal{O}_Z, \Omega^n) = 0$ for $q > n$, since

$$0 \rightarrow E_n \rightarrow \dots \rightarrow \mathcal{O} \rightarrow \mathcal{O}_Z \rightarrow 0$$

$$\Rightarrow \underline{\text{Ext}}_0^n(\mathcal{O}_Z, \Omega^n) = \bigoplus_{p \in \mathbb{Z}} \underline{\text{Ext}}_{\mathcal{O}_p}^n(\mathcal{O}_{Z,p}, \Omega_p^n).$$

$$\text{If } p > 0, \quad H^q(M, \underline{\text{Ext}}_0^n(\mathcal{O}_Z, \Omega^n)) = 0 \quad \text{by p707} \quad \Rightarrow$$

The other spectral sequence has

$$'E_1^{p,q} = H^q(M, \Omega^{n-p}).$$

$$\Gamma \quad {}''F^p C^{p+q} = C^{q,p} \oplus C^{q+1,p+1} \oplus \dots$$

$$C^p(\underline{U}, \text{Hom}(E_q(\mathcal{O}_Z), \Omega^n)) = C^{p,q} \quad C^n = \bigoplus_{p+q=n} C^{p,q}$$

$${}''E_0^{p,q} \xrightarrow{d_0} {}''E_0^{p,q+1} \\ \frac{{}''F^p C^{p+q}}{{}''F^{p+1} C^{p+q}} = C^{q,p} \quad \frac{{}''F^p C^{p+q+1}}{{}''F^{p+1} C^{p+q+1}} = C^{q+1,p} \\ \delta$$

$$\Rightarrow {}''E_1^{p,q} = \frac{\text{Ker } \delta}{\text{Im } \delta} = H^q(\underline{U}, \text{Hom}(E_p''(\mathcal{O}_Z), \Omega^n)) \\ \cong H^q(\underline{U}, \Omega^{n-p})$$

$$\Rightarrow {}''E_1^{p,q} \cong H^q(M, \Omega^{n-p}). \quad \text{By the change of notation,} \\ {}'E_1^{p,q} \cong H^q(M, \Omega^{n-p}). \quad \Rightarrow$$