

$$\begin{array}{ccc}
 H^0(M, \mathcal{O} \otimes \Omega^n(\Lambda^n E) \otimes \text{Ext}^n(M; \mathcal{O}, \Lambda^n E^*)) & \xrightarrow{\quad} & \mathbb{C} \\
 \downarrow \rho_* \quad \downarrow \psi & & \uparrow \rho^* = d_n \\
 H^0(M, \mathcal{O}_Z \otimes \Omega^n(\Lambda^n E) \otimes \text{Ext}^n(M; \mathcal{O}_Z, \Lambda^n E^*)) & \xrightarrow{\quad} & \mathbb{C}
 \end{array}$$

$$\begin{array}{ccc}
 \oplus_{p \in Z} \psi_p & & \oplus_{p \in Z} e_p \\
 \downarrow & & \downarrow \\
 H^0(M, \text{Ext}^n_{\mathcal{O}}(\mathcal{I}_Z, \Lambda^n E^*)) & & H^0(M, \text{Ext}^n_{\mathcal{O}}(\mathcal{O}_Z, \Lambda^n E^*))
 \end{array}$$

$$\Rightarrow \langle \psi, d_n(\oplus_{p \in Z} e_p) \rangle = \sum_{p \in Z} \langle \psi_p, e_p \rangle$$

$$\begin{aligned}
 e_p &\in \text{Ext}^n_{\mathcal{O}}(\mathcal{I}_Z, \Lambda^n E^*)_p = \text{Ext}^n_{\mathcal{O}_Z}(\mathcal{O}_Z, \Lambda^n E^*)_p \cong \mathcal{O}_{Z,p} = \frac{\mathcal{O}_p}{\mathcal{I}_{Z,p}} \\
 &\cong \frac{\mathcal{O}}{\{s_1, s_2, \dots, s_n\}}
 \end{aligned}$$

$$\Rightarrow e_p \longleftrightarrow \alpha + I, \quad \alpha \in \mathcal{O}, \quad I = \{s_1, s_2, \dots, s_n\}.$$

by P.650.

For example, $n=2$, locally

$$0 \longrightarrow \mathcal{O} \longrightarrow \mathcal{O} \oplus \mathcal{O} \longrightarrow \mathcal{I} \longrightarrow 0$$

$$\Rightarrow \text{Hom}(\mathcal{I}, \mathcal{O}) \longrightarrow \text{Hom}(\mathcal{I}, \mathcal{I}) \longrightarrow \text{Ext}^1(\mathcal{I}, \mathcal{O}) \cong \mathcal{O}_{\mathcal{I}}$$

$$\begin{array}{ccccccc}
 & & \mathcal{O} & \xrightarrow{\quad} & \mathcal{O} \oplus \mathcal{O} & \xrightarrow{\quad} & \mathcal{I} \longrightarrow 0 \\
 & & \uparrow & & \uparrow & & \uparrow \\
 0 & \longrightarrow & \mathcal{O} & \longrightarrow & \mathcal{O} \oplus \mathcal{O} & \longrightarrow & \mathcal{I} \longrightarrow 0 \\
 & & \uparrow & & \uparrow & & \uparrow \\
 0 & \longrightarrow & \mathcal{O} & \longrightarrow & \mathcal{O} \oplus (\mathcal{O} \oplus \mathcal{O}) & \longrightarrow & \mathcal{O} \oplus \mathcal{O} \longrightarrow 0 \\
 & & \uparrow & & \uparrow & & \uparrow \\
 0 & \longrightarrow & \mathcal{O} & \longrightarrow & \mathcal{O} & \longrightarrow & \mathcal{O} \longrightarrow 0 \\
 & & \uparrow & & \uparrow & & \uparrow \\
 & & \mathcal{O} & & \mathcal{O} & & \mathcal{O}
 \end{array}$$

$$0\text{-stage } 0 \longrightarrow \mathcal{O} \longrightarrow \mathcal{O} \oplus (\mathcal{O} \oplus \mathcal{O}) \longrightarrow \mathcal{O} \oplus \mathcal{O} \longrightarrow 0$$

$$1\text{-stage } 0 \longrightarrow \mathcal{O} \longrightarrow \mathcal{O} \longrightarrow \mathcal{O} \longrightarrow 0$$