$$'E_2^{1,q} = 0 \Rightarrow 'E_3^{1,q} = 0 = \cdots\cdots\ 'E_\infty^{1,q}$$
$$'E_2^{2,q} = 0 \Rightarrow 'E_3^{2,q} = \cdots = 'E_\infty^{2,q} = 0$$
$$\vdots$$

$$'E_2^{0,k} = \frac{\mathbb{H}^k}{F^1\mathbb{H}^k} \Rightarrow \mathbb{H}^k = 'E_2^{0,k} \oplus F^1\mathbb{H}^k = 'E_2^{0,k} \oplus 'E_2^{1,k-1} \oplus \cdots$$
$$= 'E_2^{0,k} = H^0(\mathcal{U}, \underline{\mathrm{Ext}}_{\mathcal{O}}^k(\mathcal{F},\mathcal{G}))$$
$$= \mathrm{Ext}^k(\mathcal{U};\mathcal{F},\mathcal{G}).$$

$$\Rightarrow H^0(\mathcal{U}, \underline{\mathrm{Ext}}_{\mathcal{O}}^*(\mathcal{F},\mathcal{G})) = \mathrm{Ext}^*(\mathcal{U};\mathcal{F},\mathcal{G})$$

Thus $e \in \mathrm{Ext}^1(S; I, \mathcal{L})$ induces e_p in each stalk $\underline{\mathrm{Ext}}_{\mathcal{O}}^1(I,\mathcal{L})_p$ for any point $p \in S$.

$$\begin{tikzcd}
\mathrm{Ext}^1(S;\mathcal{F},\mathcal{G}) \arrow[r] & \mathrm{Ext}^1(\mathcal{U};\mathcal{F},\mathcal{G}) = H^0(\mathcal{U}, \underline{\mathrm{Ext}}_{\mathcal{O}}^1(\mathcal{F},\mathcal{G})) = \underline{\mathrm{Ext}}_{\mathcal{O}}^1(\mathcal{F},\mathcal{G})(\mathcal{U}) \arrow[d] \\
e \arrow[r, mapsto] & e_{\mathcal{U}} \arrow[d, mapsto] \\
 & \underline{\mathrm{Ext}}_{\mathcal{O}}^1(\mathcal{F},\mathcal{G})_p \ni e_p
\end{tikzcd}$$

where $\mathcal{F} = I$ and $\mathcal{G} = \mathcal{L}$.

By the discussion in the preceding section, a class $e \in \mathrm{Ext}^1(S; I, \mathcal{L})$ defines a global extension

$$0 \longrightarrow \mathcal{L} \longrightarrow \mathcal{E}^* \longrightarrow I \longrightarrow 0$$

over S, and by the lemma on P. 724 the coherent sheaf $\mathcal{E}^*$ still be locally free if each e_p is a