

among $\{i_1, \dots, i_k\}$ and put them 1).

$$\mathcal{Q}^q(*D)(U) = \bigcup_{x \in U} A^q(U - U \cap D)_x$$

$$\mathcal{H}^q(\mathcal{Q}^*(\ast D))_p$$

$$= \lim_{U \ni p} \frac{\ker \{d: \mathcal{Q}^q(*D)(U) \rightarrow \mathcal{Q}^{q+1}(*D)(U)\}}{d \mathcal{Q}^{q-1}(*D)(U)} \ni \sigma + d \mathcal{Q}^{q-1}(*D)(U)$$

$$\begin{array}{ccc} & \downarrow & \downarrow \phi \\ & & \end{array}$$

$$H^q(X^*S^1, \mathbb{C}) = \lim_{U \ni p} H^q_{DR}(U - U \cap D) \ni \sigma' + d A^{q-1}(U' - U' \cap D)$$

$$\sigma \in \mathcal{Q}^q(*D)(U) \Rightarrow \sigma(x) = \sigma'_x, \quad \sigma' \in A^q(U' - U' \cap D) \text{ s.t. } d\sigma' = 0.$$

\uparrow germ of σ'

$$U' \subset U, \text{ and } U' \cong \{ |z| < 1 \}.$$

$$\text{Clearly } \phi \text{ is onto. Suppose } \phi(\sigma + d \mathcal{Q}^{q-1}(*D)(U)) = 0 \Rightarrow \sigma' = d\tau, \quad \tau \in A^{q-1}(U' - U' \cap D).$$

$$\Rightarrow \text{Let } \sigma'' \in \mathcal{Q}^q(*D)(U') \text{ s.t. } \sigma''(z) = \sigma'(z) \Rightarrow d\tau' = \sigma'' \text{ where } \tau' \in \mathcal{Q}^{q-1}(*D)(U') \quad \tau'(z) = \tau_z. \Rightarrow \phi \text{ is iso. } \square$$

Since the cohomology of $U^* = U - U \cap D$ has as basis the forms

$$\frac{dz_j}{z_j} \quad (j \in I),$$

the stalks $\mathcal{H}^q(\Omega^*(\log D))_p$ and $\mathcal{H}^q(\Omega^*(\ast D))_p$ both map onto $\mathcal{H}^q(\mathcal{Q}^*(\ast D))_p$.