

0-star $U \subset \mathbb{C}$

$$\mathfrak{A} = dx \overset{x:y}{\underset{1}{\mathfrak{A}}} + dy \overset{x:y}{\underset{2}{\mathfrak{A}}} \in \Lambda^1(U)$$

$$d\mathfrak{A} = 0 \Rightarrow \bigvee \mathfrak{A}: d\mathfrak{A} = \mathfrak{A}$$

$${}_1\partial {}_2\mathfrak{A} = {}_2\partial {}_1\mathfrak{A}$$

$$\overset{x:y}{\mathfrak{A}} = \int_{dt}^{0|1} [x \ y] \begin{bmatrix} \overset{tx:ty}{\underset{1}{\mathfrak{A}}} \\ \overset{tx:ty}{\underset{2}{\mathfrak{A}}} \end{bmatrix} = \int_{dt}^{0|1} x \overset{tx:ty}{\underset{1}{\mathfrak{A}}} + y \overset{tx:ty}{\underset{2}{\mathfrak{A}}}$$

$${}_1\partial \mathfrak{A} = \overset{1}{\mathfrak{A}}; {}_2\partial \mathfrak{A} = \overset{2}{\mathfrak{A}}$$

$$\overset{x:y}{\mathfrak{A}} \overset{1}{\partial} \mathfrak{A} = \int_{dt}^{0|1} \overset{tx:ty}{\underset{1}{\mathfrak{A}}} + tx \overset{tx:ty}{\underset{1}{\partial}} \mathfrak{A} + ty \overset{tx:ty}{\underset{1}{\partial}} \mathfrak{A}$$

$$= \int_{dt}^{0|1} \overset{tx:ty}{\underset{1}{\mathfrak{A}}} + tx \overset{tx:ty}{\underset{1}{\partial}} \mathfrak{A} + ty \overset{tx:ty}{\underset{2}{\partial}} \mathfrak{A}$$

$$= \int_{dt}^{0|1} \overset{tx:ty}{\underset{1}{\mathfrak{A}}} + t \frac{d}{dt} \overset{tx:ty}{\underset{1}{\mathfrak{A}}} = \int_{dt}^{0|1} \frac{d}{dt} \underbrace{t \overset{tx:ty}{\underset{1}{\mathfrak{A}}}} = \underbrace{t \overset{tx:ty}{\underset{1}{\mathfrak{A}}}} \Big|_0^1 = \overset{x:y}{\underset{1}{\mathfrak{A}}}$$

$$d\mathfrak{A} = \mathfrak{A} \Rightarrow \mathfrak{A} \infty \text{ diff}$$