$\overline{\partial T(\varphi)} = \overline{T(\partial \varphi)} = \underset{(\bar\partial T)(\bar\varphi)}{T(\bar\partial \bar\varphi)} \Rightarrow$ Since $A^{p+n-1,\,n-p} \underset{\text{onto}}{\overset{1-1}{\longleftrightarrow}} A^{n-p,\,n-p-1}$ under the conjugation, $\partial T = 0 \Leftrightarrow \bar\partial T = 0$.

The positivity of a current implies that it is order zero in the sense of distributions. For example, a current $T \in \mathcal{D}^{1,1}(M)$ is locally written as

$$T = \frac{\sqrt{-1}}{2} \sum_{i,j} t_{ij}\, dz_i \wedge d\bar z_j \, .$$

a differential form with distribution coefficients defined by

$$t_{ij}(\alpha) = (-1)^{n+i+j} (\alpha\, dz_1 \wedge \cdots \wedge \widehat{dz_i} \wedge \cdots \wedge dz_n \wedge d\bar z_1 \wedge \cdots \wedge \widehat{d\bar z_j} \wedge \cdots \wedge d\bar z_n).$$

$\ulcorner$ $T(\alpha\, dz_1 \wedge \cdots \wedge \widehat{dz_i} \wedge \cdots \wedge dz_n \wedge d\bar z_1 \wedge \cdots \wedge \widehat{d\bar z_j} \wedge \cdots \wedge d\bar z_n)\ \Phi(z) \wedge \overline{\Phi}$

$$= \frac{\sqrt{-1}}{2} \sum_{ij} t_{ij}(\alpha)\, dz_i \wedge d\bar z_j \wedge dz_1 \wedge \cdots \wedge \widehat{dz_i} \wedge \cdots \wedge dz_n \wedge d\bar z_1 \wedge \cdots \wedge \widehat{d\bar z_j} \wedge \cdots \wedge d\bar z_n$$

$$= \frac{\sqrt{-1}}{2} t_{ij}(\alpha)\, dz_i \wedge d\bar z_j \wedge dz_1 \wedge \cdots \widehat{dz_i} \wedge \cdots dz_n \wedge d\bar z_1 \wedge \cdots \wedge \widehat{d\bar z_j} \wedge \cdots \wedge d\bar z_n$$

$$= \frac{\sqrt{-1}}{2} t_{ij}(\alpha)\, (-1)^i\, d\bar z_j \wedge \Phi(z) \wedge d\bar z_1 \wedge \cdots \wedge \widehat{d\bar z_j} \wedge \cdots \wedge d\bar z_n$$

$$= \frac{\sqrt{-1}}{2} t_{ij}(\alpha)\, (-1)^i (-1)^{n+j-1}\, \Phi(z) \wedge \overline{\Phi(z)}$$

$$= \frac{\sqrt{-1}}{2} t_{ij}(\alpha)\, (-1)^{n+i+j-1}\, \Phi(z) \wedge \overline{\Phi(z)}$$

$$\Rightarrow \quad t_{ij}(\alpha) = (-1)^{n+i+j-1} \frac{2}{\sqrt{-1}} T(\alpha\, dz_1 \wedge \cdots \wedge \widehat{dz_i} \wedge \cdots \wedge dz_n \wedge d\bar z_1 \wedge \cdots \widehat{d\bar z_j} \wedge \cdots \wedge d\bar z_n).$$

$\lrcorner$

The current is real if $\overline{t_{ij}} = t_{ji}$ and positive if for