

$$\mathbb{F} \quad K: A_c^{n,n}(\mathbb{C}^n \times \mathbb{C}^n) \longrightarrow A^{n,n-1}(\mathbb{C}^n \times \mathbb{C}^n)$$

$$\bar{\partial} K + (-1)^0 K \bar{\partial} = (-1)^0 \bar{\partial} d$$

$$\Rightarrow \bar{\partial} K T_\Delta^0 + (-1)^0 K \bar{\partial}_// T_\Delta^0 = (-1)^0 T_\Delta^0$$

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smoothing is 0.

$$K T_\Delta^0 = k.$$

Wrong! See back. \Downarrow

Now we return to our complex manifold M and map $f: M \rightarrow M$. Assume that f has isolated, nondegenerate fixed points $\{p_\alpha\}$ and, in terms of local coordinates z_α around p_α , write

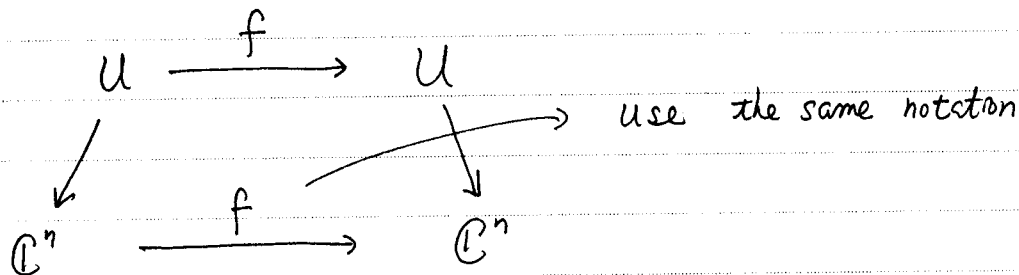
$$f(z_\alpha)_i = \sum b_{ij} z_{\alpha j} + [2],$$

i.e.,

$$f(z_\alpha) = B_\alpha z_\alpha + [2],$$

where $B_\alpha = (b_{ij})$; by nondegeneracy, $(I - B_\alpha)$ is nonsingular.

\mathbb{F}



$$(f(z_\alpha))_i = (f(z_{\alpha 1}, \dots, z_{\alpha n}))_i = \sum b_{ij} z_{\alpha j} + [2].$$

$$\Rightarrow J_f(p_\alpha) = \left(\frac{\partial f_i}{\partial z_{\alpha j}} \right) = (b_{ij}) = B$$

\Rightarrow By the def. of nondegenerate fixed points, on p420,
 $\det(B - I) \neq 0$