$$\langle K(z,w), K(z,w)\rangle = \frac{\sum |z_i - w_i|^2}{\|z-w\|^{4n}} = \frac{\|z-w\|^2}{\|z-w\|^{4n}}$$

$$\Rightarrow \sqrt{\langle K(z,w), K(z,w)\rangle} = \|K(z,w)\| = \left(\frac{1}{\|z-w\|^{4n-2}}\right)^{\frac{1}{2}}$$

$$= \frac{1}{\|z-w\|^{2n-1}}$$, again we omitted constant.

$$\int_{\mathbb{C}^n \times \mathbb{C}^n} \frac{1}{\|z-w\|^{2n-1}} dz \wedge d\bar{z} \wedge dw \wedge d\bar{w}$$

$$= \int_{\mathbb{C}^n} \left(\int_{\mathbb{C}^n} \frac{1}{\|z-w\|^{2n-1}} dz \wedge d\bar{z} \right) dw \wedge d\bar{w}.$$

$\Rightarrow$ $dz \wedge d\bar{z}$ is a volume form of deg $2n$.

$\Rightarrow$ By 370,
for each w, $\displaystyle\int_{\mathbb{C}^n} \frac{1}{\|z-w\|^{2n-1}} dz \wedge d\bar{z} < \infty$, since $2n-1 < 2n$.

$$\Rightarrow \int_{\mathbb{C}^n} \left(\int_{\mathbb{C}^n} \frac{1}{\|z-w\|^{2n-1}} dz \wedge d\bar{z} \right) dw \wedge d\bar{w} = \infty$$, but

it is locally integrable. ⅃⅃

Its decomposition into bitype is

$$K(z,w) \in \bigoplus_{q=1}^{n} L^{(0,q-1)(n,n-q)}(\mathbb{C}^n \times \mathbb{C}^n, loc).$$

We then define

$$K : A_c^{0,q}(\mathbb{C}^n) \longrightarrow A^{0,q-1}(\mathbb{C}^n)$$