

this implies

$$\int_{\partial D(\epsilon)} \bar{\partial} \log \bar{f}_\alpha \wedge \psi = \int_{\partial D(\epsilon)} \overline{\partial \log f_\alpha} \wedge \psi.$$

$$\lim_{\epsilon \rightarrow 0} \frac{2\pi}{i} \int_{\partial D(\epsilon)} d^c \log |S|^2 \wedge \psi = \lim_{\epsilon \rightarrow 0} -i \operatorname{Im} \int_{\partial D(\epsilon)} \partial \log f_a \wedge \psi.$$

Taking the limit $\epsilon \rightarrow 0$, and $\overline{\partial \log f_\alpha} = \overline{\partial \log f_\alpha}$,

Now in the mbd of any smooth point $z_0 \in V \cap U_\alpha$, we can find a holomorphic coordinate system $W = (w_1, w_2, \dots, w_n)$ with $w_1 = f_\alpha$.

\square Since f_α is a local defining function on U_α ,
 $df_\alpha(z) \neq 0.$