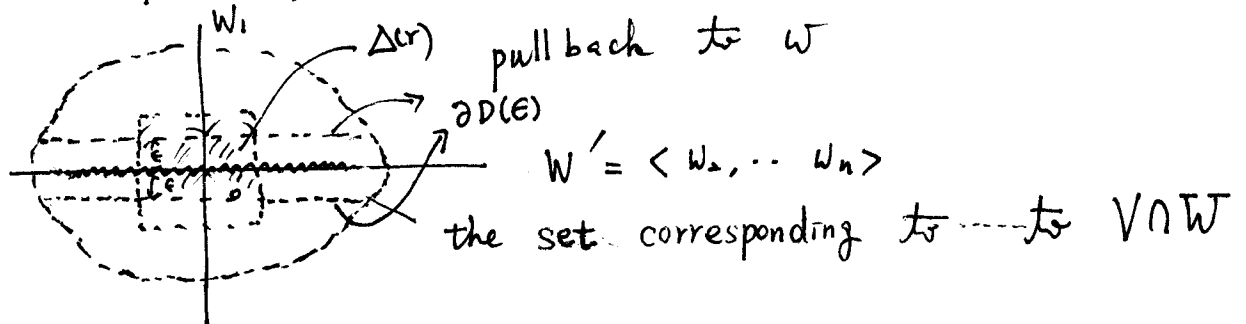


- ⑤ Since we have a holomorphic coordinate system $W = (w_1, w_2, \dots, w_n)$ with $w_1 = f_\alpha$. In the nbd^W of any smooth point $z_0 \in V \cap U_\alpha$.

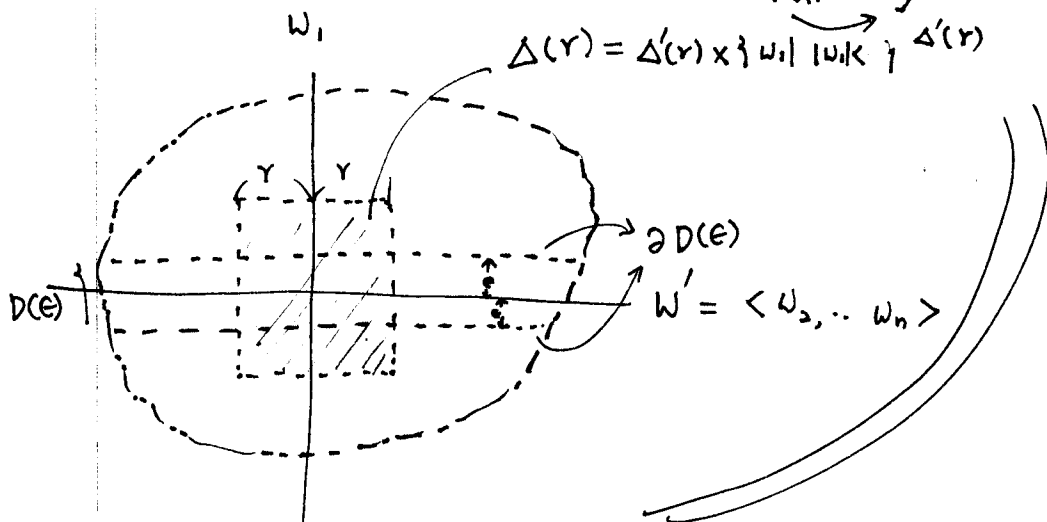
$$\{w_1 = 0 = f_\alpha = 0\} = V \cap W$$



$\Rightarrow D(\epsilon)$ corresponds to the tape with width $\geq \epsilon$.

$$\Rightarrow \lim_{\epsilon \rightarrow 0} \int_{\partial D(\epsilon) \cap \Delta} \partial \log f_\alpha \wedge \psi \stackrel{\text{pull back}}{=} \lim_{\epsilon \rightarrow 0} \int_{|w_1|=\epsilon} \frac{dw_1}{w_1} \psi(w) \cdot dw' \wedge d\bar{w}'$$

$$= \lim_{\epsilon \rightarrow 0} \int_{|w_1|=\epsilon} \int \frac{dw_1}{w_1} \psi(w) dw' \wedge d\bar{w}'$$



$$= \lim_{\epsilon \rightarrow 0} \int_{\Delta'(r)} \int_{|w_1|=\epsilon} \frac{dw_1}{w_1} \psi(w) dw' \wedge d\bar{w}'$$

$$= \int_{\Delta'(r)} \psi(0, w') dw' \wedge d\bar{w}' = \int_{V \cap \Delta(r)} \psi$$

pull back of ψ through f .