

of the exterior algebra  $E^{2n}(dz_k, d\bar{z}_k)$  i.e., it satisfies condition (5) for each system  $L^{n-p}$  of purely linear forms  $\alpha_1, \dots, \alpha_{n-p}$ .

Remarks.

(1) Assume that on  $W^n$  a metric is given by a hermitian positive form expressed in the local coordinates  $dz_k, d\bar{z}_k$ :

$$\sum g_{p\bar{q}} dz_p d\bar{z}_q = ds^2$$

Set

$$\Omega = \frac{i}{2} \sum g_{p\bar{q}} dz_p \wedge d\bar{z}_q.$$

Then we can replace  $\tau_n$  in condition (5) by the "element of volume"  $\frac{1}{n!} \Omega^n$ .

If

$$\phi \wedge (i\alpha_1 \wedge \bar{\alpha}_1) \wedge \dots \wedge (i\alpha_{n-p} \wedge \bar{\alpha}_{n-p}) = l(\phi, L^{n-p}) \tau_n$$

$$\begin{aligned} & \Omega \wedge (i dz_1 \wedge d\bar{z}_1) \wedge \dots \wedge (i dz_{n-1} \wedge d\bar{z}_{n-1}) \\ &= \frac{(i)^n}{2} (dz_1 \wedge d\bar{z}_1 \wedge \dots \wedge dz_n \wedge d\bar{z}_n) g_{n\bar{n}} \end{aligned}$$

$$\Omega^n = \left(\frac{i}{2}\right)^n \sum g_{1\bar{1}} g_{2\bar{2}} \dots g_{n\bar{n}} \quad e(o) dz_1 \wedge d\bar{z}_1 \wedge \dots \wedge dz_n \wedge d\bar{z}_n$$

$$= \left(\frac{i}{2}\right)^n \det(g_{i\bar{j}}) dz_1 \wedge d\bar{z}_1 \wedge \dots \wedge dz_n \wedge d\bar{z}_n.$$

$$\Rightarrow \frac{\Omega^n}{n!} = \frac{1}{n!} \left(\frac{i}{2}\right)^n \det(g_{i\bar{j}}) \Phi(z) \wedge \overline{\Phi(z)} (-1)^{\frac{(n-1)(3n-4)}{2}}$$

$\det(g_{i\bar{j}}) \geq 0$  since every eigenvalue of  $(g_{i\bar{j}})$  is