

$$\|a_k^j\| = \|A\| \neq 0.$$

The condition is necessary: it follows from (5) that the Laplacian with respect to the z' can be written in the form

$$\Delta V = \sum \frac{\partial^2 V}{\partial z'_p \partial \bar{z}'_q} = \sum_{j,p,q} \frac{\partial^2 V}{\partial z_p \partial \bar{z}_q} a_p^j \bar{a}_q^j = \sum_j \sum_{p,q} \frac{\partial^2 V}{\partial z_p \partial \bar{z}_q} a_p^j \bar{a}_q^j =$$

$$\sum_j T(V, \vec{a}^j) \geq 0 \quad (6)$$

so that $V'[z'] = V[A(z')]$ is \mathbb{R}^{2n} -subharmonic, conditions 1a and 1c holding also for V' .

$$\Gamma \Rightarrow \frac{\partial}{\partial \bar{z}'_q} = \frac{\partial \bar{z}_i}{\partial \bar{z}'_q} \frac{\partial}{\partial \bar{z}_i} \quad z_k - z_k^0 = \sum a_k^j z_j'$$

$$\Rightarrow \bar{z}_k - \bar{z}_k^0 = \sum \bar{a}_k^j \bar{z}_j' \quad \bar{z}_i - \bar{z}_i^0 = \sum \bar{a}_i^j \bar{z}_j'$$

$$\Rightarrow \frac{\partial \bar{z}_i}{\partial \bar{z}'_q} = \bar{a}_i^q \Rightarrow \frac{\partial}{\partial \bar{z}'_q} = \bar{a}_i^q \frac{\partial}{\partial \bar{z}_i}$$

$$\text{Similarly, } \frac{\partial}{\partial z'_j} = a_j^p \frac{\partial}{\partial z_p}$$

$$\Rightarrow \sum \frac{\partial^2 V}{\partial z'_p \partial \bar{z}'_q} = \sum \frac{\partial^2 V}{\partial z_p \partial \bar{z}_q} a_p^j \bar{a}_q^j = \sum_j \sum_{p,q} \frac{\partial^2 V}{\partial z_p \partial \bar{z}_q} a_p^j \bar{a}_q^j$$

$$= \sum_j T(V, \vec{a}^j) \geq 0 \quad \text{by P' (5)} \quad (6)_{\text{J}}$$

The condition is sufficient: it suffices to prove that if (6) is true for every regular matrix A , then (5)