

$\omega_i = j^* \tilde{\omega}_i$ . (Here,  $A = \mathbb{C}^2 / \Lambda$ ,  $\Lambda$  lattice of maximal rank 4.  $\Rightarrow$  We have global 1-forms  $dz_1, dz_2$  on  $A$ .)  $\Rightarrow$

$\{ \pi^* \tilde{\omega}_i \}_{i=1,2}$  are then bounded holomorphic 1-forms on  $\Sigma - \bigcup_{p \in R} X_p$ ; by Riemann's theorem they extend

to all of  $\Sigma$ , and, since  $\Sigma$  is simply connected, it follows that  $\omega_i \equiv 0$ .

□

Remark:  $f: \mathbb{C}_{\neq 0}^* \rightarrow \mathbb{C}_{\neq 0}^*$  is a map defined by

$$\Rightarrow f^* \left( -dw/w^2 \right) = dz$$

Thus we can

that even if  $dz$  can