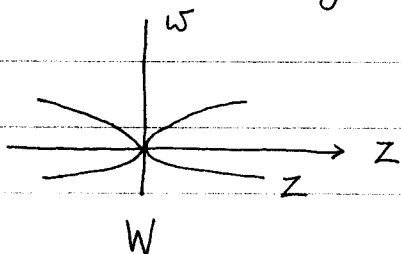


a finite-sheeted cover of a polydisc Δ branched over an analytic hypersurface of Δ , by slightly changing Z , we can have a holomorphic coordinate system (Z, W) s.t. W is given by $Z=0$ and the projection $(Z, W) \mapsto Z$ is a finitely sheeted branched covering mapping on Z . \square

Set $U_\epsilon = \{ (Z, W) : \|Z\| < \epsilon, \|W\| < \epsilon \}$ and let $U = U_1$. The picture is shown by Figure 1.



Suppose now that we have a current $S \in \mathcal{D}^{p, p-1}(U)$ such that

$$T_W|_U = \bar{\partial} S.$$

\square We will describe S later. \square

Let P be a bump function that is 1 in U_ϵ and has compact support in U . Then

$$T'_W = T_W - \bar{\partial}(PS)$$

is a globally defined current on M in the same cohomology class as T_W .

\square PS is globally defined. $\Rightarrow T_W - \bar{\partial}(PS)$ is globally