

Foliations associated to maps tangent to the identity

Francesca Tovena

Let $f \in \text{End}(\mathbb{C}^2, O)$ be a holomorphic germ tangent to the identity, and let $\pi: \tilde{M} \rightarrow \mathbb{C}^2$ be the blow-up of the origin. If the origin is non-dicritical for f , we can define three different foliations on the normal bundle N_S , where $S \subset \tilde{M}$ is the exceptional divisor. These foliations are related to the local dynamics of f .