# PARABOLIC CURVES AND SEPARATRICES IN $\mathbb{C}^{2}$ 

It is known that any tangent to the identity diffeomorphism $F$ in $\mathbb{C}^{2}$ with 0 as isolated fixed point admits parabolic curves, i.e., functions defined in a domain of $\mathbb{C}$ with the origin in the boundary whose image is invariant and attracted by 0 under the action of $F$. These parabolic curves are related to the separatrix of the formal vector field $X$ whose flow in time 1 is $F$.

We will give a simple proof of the existence of parabolic curves for $F$ and specify a little their relation with the separatrix of $X$.

