

Differentiable invariants of holomorphic foliations

Rudy Rosas¹

¹ Pontificia Universidad Católica del Perú

In this talk we study differentiable equivalences of germs of singular holomorphic foliations in dimension two. We prove that the Camacho-Sad indices are invariant by such equivalences. We also prove that the Baum-Bott index is a differentiable invariant for some classes of foliations. As a corollary we show that generic degree two holomorphic foliations of \mathbb{P}^2 are differentially rigid.