

998-34-82

Laura Ortiz-Bobadilla (laura@matem.unam.mx), Area de la Investigacion Cientifica, Ciudad Universitaria, Coyoacan, 04510 Mexico DF, Mexico, **Sergey M. Voronin** (voron@cgu.chel.su), Kashirin's str. 129, Chelyabinsk, 454021 Chelyabinsk, Russia, and **Ernesto Rosales-Gonzalez*** (ernesto@matem.unam.mx), Area de la Investigacion Cientifica, Ciudad Universitaria, Coyoacan, 04510 Mexico DF, Mexico. *Rigidity of germs of dicritic foliations.*

We consider the class \mathcal{V}_{n+1}^d of dicritic germs of holomorphic vector fields in $(\mathbb{C}^2, 0)$ with vanishing n -jet at the origin, $n \geq 1$. We prove, under some genericity assumptions, that the formal equivalence of two generic germs implies their analytic equivalence. A similar result is also established for orbital equivalence. Moreover, we give the formal, orbitally formal and orbitally analytic classification of generic germs in \mathcal{V}_{n+1}^d up to a change of coordinates with identity linear part. (Received February 10, 2004)