

Resolution of Singular Foliations via Principalization

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Abstract: I will discuss resolution of singularities for foliations and present our approach via a weighted principalization theorem for ideals on smooth orbifolds equipped with a foliation. As an application, I will describe the resolution of certain foliations in arbitrary dimensions, including Darboux totally integrable foliations. This is joint work with D. Abramovich, M. Temkin, and J. Włodarczyk.