

Deformations of exterior differential ideals and applications
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Abstract:

The main topic of this talk is the geometry of moduli spaces of algebraic singular foliations on smooth projective algebraic varieties over the complex numbers. A motivating problem is the determination of the irreducible components of such moduli spaces. We plan to discuss some basic facts on deformation theory of exterior differential ideals. With these tools we study deformations of some types of differential ideals, obtaining several irreducible components of the moduli spaces.

This talk is based on joint work with Cesar Massri.