

Announcement

Seminar on Deformation Quantization and Geometry

January 12th 2024 at 14:00 s.t.

Seminarroom SE 30

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Formal rigidity of singular foliations around fixed points

In mathematics, rigidity questions arise in various settings. For instance, given a Lie algebra structure μ on a finite-dimensional vector space V , seen as a bilinear map, it is natural to ask when all nearby Lie algebra structures are related to μ by a linear automorphism of V . In geometry, similar questions arise when dealing with Lie algebra actions or Poisson structures, for which various results have been obtained. I will discuss the rigidity question for singular foliations, and show that analytic foliations are formally rigid around fixed points with semisimple isotropy Lie algebra.

Invited by Madeleine Jotz