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Unique ergodicity for foliations

Monday, December 11, 2017 4:30 PM (50 minutes)

Consider the polynomial differential equation in \mathbb{C}^2

$$dz/dt = P(z;w); \quad dw/dt = Q(z;w):$$

The polynomials P and Q are holomorphic, the time is complex. In order to study the global behavior of the solutions, it is convenient to consider the extension as a foliation in the projective plane \mathbb{P}^2 .

I will discuss some recent results around the following questions. What is the ergodic theory of such systems?

How do the leaves distribute in a generic case? What is the topology of generic leaves?

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