Cornell Dynamical Systems Seminar

www.math.cornell.edu/~dynsem/

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News about complex polynomial foliations

The subject of the talk will be twofold. The first one is total rigidity, the property of polynomial foliations close to topological equivalence implies affine equivalence. We will prove that generic quadratic vector field generates a foliation in the complex plane that is topologically equivalent to no more than 240 foliations, modulo affine equivalence. This result makes use of the previous results by V.Moldavskis, A. Lins Neto and A. Guillot. The second part is devoted to non-extandability properties of the Poincare maps of polynomial foliations. These results are due to B. Deroin et al.

Friday, September 17, 2:15 pm, 2010, in 205 Malott Hall