

Jouanolou-Type Foliations on Algebraic Surfaces

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Abstract: I will introduce a class of foliated algebraic surfaces that share several key properties with the Jouanolou foliations on the complex projective plane. In particular, these foliations exhibit structural stability and possess a non-trivial Fatou/Julia decomposition. I will explain that such foliations arise exclusively on ruled surfaces, and I will discuss possible dynamical behaviors of foliations on non-ruled surfaces. This is joint work with Aurélien Alvarez.