

CLASSIFICATION OF SPECIAL CURVES OF CUBIC POLYNOMIALS

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Post-critically finite polynomials play a particular role in studying parameter spaces of complex dynamical systems for several reasons: their dynamics is simpler to understand and they are equidistributed with respect to a certain dynamically relevant probability measure in the parameter space. In this talk, I will describe their distribution from the point of view of the Zariski topology. This amounts to describe all irreducible algebraic curves in the space of cubic polynomials which contain infinitely many post-critically finite ones. This is a joint work with C. Favre.