

Stanford Algebraic Geometry — Seminar —

IRREDUCIBLE SPECIALIZATION IN HIGHER GENUS

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Abstract

We explain how deformation theory and other algebro-geometric methods are used to study the problem of irreducible specialization for one-variable polynomials with coefficients in the coordinate ring of a smooth affine curve (with one geometric point at infinity) over a finite field. We establish a higher-genus version of the periodicity theorems discussed in the genus-0 case in my colloquium talk this week, at least in odd characteristic, and we pose some thorny questions in the vexing case of characteristic 2.

Friday, April 30
3:30 p.m. (**Note unusual time!**)
Room 383-N

<http://math.stanford.edu/~vakil/seminar0304/>