

Stanford Joint Algebraic Geometry and — Algebraic Methods Seminar —

RATIONAL POINTS OF VARIETIES DEFINED OVER THE FUNCTION FIELD OF A SURFACE

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Abstract

This is a report of ongoing work with Johan de Jong on a generalization of the Tsen-Lang theorem in the same spirit as the generalization of Tsen's theorem by Graber-Harris-Starr. I will discuss the conjectural generalization, a strategy for proving the conjecture, and the difficulties in carrying out this strategy. I will also discuss a special case of the conjecture that has been proved, which gives a new proof/generalization of de Jong's "period-index theorem" (different from the generalization discussed in Max Lieblich's talk in the algebraic seminar in the fall).

Monday, April 19
3:15 p.m.
Room 383-N

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