

SCMS Seminar



HASSE PRINCIPLE FOR QUADRICS OVER GLOBAL FUNCTION FIELDS

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Time: 10:00-11:00 am., Thursday, August 27, 2015

Venue: Room 2201, East Main Guanghai Tower, Handan Campus

Title: Hasse Principle for Quadrics over Global Function Fields

Abstract: Given a variety defined over a number field or the function field of a curve defined over a finite field, a natural question is to ask when can we find a rational point. We say that the variety satisfies Hasse principle (or local-global principle) if whenever we can find a rational point everywhere locally, we can find a rational point over this global field. In this talk I will give a new geometric proof (motivated by the study of rationally simply connected varieties of de Jong and Starr) of an old result: Hasse principle for quadrics defined over the function field of a curve defined over a finite field.