

SCMS Seminar



NEW POINTS IN ALGEBRAIC VARIETIES

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Time: 10:00-11:00 am., Friday, October 23, 2015

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

Title: New Points in Algebraic Varieties

Abstract: Let g be a positive integer. Given a finite extension of fields L/K , we consider the question whether there exists a projective curve X of genus g over K with a point with coordinates in L (but not in any subextension of L). It turns out that this is always possible if the degree of L over K is small enough with respect to g . This question is related to an explicit bound in a finiteness result of Caporaso-Harris-Mazur. This is a common work with Dino Lorenzini.