SCMS Seminar

ON CURVE CORRESPONDENCES

Speaker：Jin Qian

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Time: 4:00 p.m.-4:30 p.m., Monday, November 20, 2017
Venue: Room 2213, East Guanghua Tower (Main), Fudan University

Abstract:

Let C and C' be two smooth projective curves over an algebraic closure of the rational numbers. We call C lies over C' if there is an unramified cover of C which admits a surjective map to C' and call C and C' are equilvalent if C lies over C' and C' also lies over C. This relation between curves was first studied by Bogomolov and Tschinkel. Based on some geometric constructions, they have obtained several results for some classes of hyperbolic curves. They have also conjectured that all hyperbolic curves are equilvalent. In this talk, I will report my work on this problem. I will also discuss some problems about Bogomolov's birational anabelian geometry program.