

SCMS Seminar



AN INTRODUCTION TO RIGID COHOMOLOGY

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Academy of Mathematics and Systems Science

Lecture 1

Time: 3:00-5:00 pm., Wednesday, August 5, 2015

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

Lecture 2

Time: 3:00-5:00 pm., Thursday, August 6, 2015

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

Lecture 3

Time: 10:00-12:00 am., Friday, August 7, 2015

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

Abstract: Berthelot's rigid cohomology is a p-adic cohomology theory for varieties over a field of characteristic p. It extends Monsky-Washnitzer cohomology for smooth affine varieties. These lectures aim to provide a brief introduction to rigid cohomology, covering the following topics.

- I. Overview.
- II. MW cohomology. Lefschetz formula. Zeta functions of (hyper)elliptic curves.
- III. Definition of rigid cohomology.