SCMS Seminar



INVARIANT THEORY

Jian Zhang

University of Washington

Lecture

Time: 15:00-16:00, Tuesday, Nov 20th

Venue: Room 2001, East Guanghua Tower (Main), Fudan University

Abstract: We give a survey on invariant theory of finite group actions on polynomial rings, from classical results of Gauss, Hilbert, Noether, Shephard, Todd, Chevalleyto modern approaches of Stanley, Wanatabe, Auslander and Steinberg using homological algebra, algebraic geometry and combinatorics. We will briefly introduce noncommutative invariant theory, based on some recent work of Jorgensen, Jing, Kirkman, $\Delta y_i = \int y \frac{dx}{dx} \int \frac{dx$ Kuzmanovich, Bao, He, Qin. If time permits, we will also propose some open questions and future directions.

Shanghai Center for Mathematical Sciences No.2005 Songhu Road, Shanghai, China

Fax: 021-31244000

Tel: 021-31243880

Postcode: 200438 Email: scms@fudan.edu.cn