Joint Math School–SCMS Algebraic Geometry Seminar

Speaker: Chen Meng (Fudan University)

Wednesday, Oct. 31, 3:30–5:00, Room 2201

Title: Some New Results on Geography

Abstract: In this seminar, I will talk about two new results. (1) Proof of Catanese-Chen-Zhang conjecture: $K_X^3\geq 4/3p_g(X)-10/3$ holds for all projective Gorenstein minimal 3-folds, which is a joint work with Jungkai Chen; (2) Answer to the following open problem: for any integers n>2, 0<l<n, m>0, there exists a n-dimensional nonsingular projective variety X of general type so that X is canonically fibred by l-dimensional sub-varieties with the fiber volume >m. This disproves the so-called "desired canonical boundedness". This is a joint work with Zhi Jiang.