

SCMS Seminar

GRIFFITHS GROUPS AND CHOW GROUPS

Speaker: Pan, Xuanyu

Max Planck Institute

Time: 11:00 a.m.-12:00 a.m., Monday, August 22, 2016

Venue: Room 2201, East Guanghua Tower (Main), Fudan University

Abstract: In this talk, I will talk about my work on the Griffiths groups of Fano varieties of lines and the second Chow groups of "3-Fano" hypersurfaces. In fact, we give a positive answer to a question of Professor Voisin in some cases. More precisely, we show that the first Griffiths groups of Fano varieties of lines of "2-Fano" hypersurfaces are trivial and the second Chow groups of "3-Fano" hypersurfaces are torsion-free and of rank one. The proof is based on the Tseng-Lang theorem, the moduli space of stable maps, the bend-and-break theorem and the geometry of quadric surfaces in a hypersurface.

Reference: 2-Cycles on Higher Fano Hypersurfaces (Arxiv)