



FUDAN-SCMS ALGEBRAIC GEOMETRY SEMINAR

ZOOM MEETING SEMINAR

LECTURE :

***K*-STABILITY AND MODULI OF QUARTIC *K*3 SURFACES**

Speaker: Yuchen Liu (Northwestern University)

Time: Tue, Sep. 28th, BJS 11:00-12:00

Zoom Meeting Id: 870 8729 2679

Password:121323

Abstract: We show that K -moduli spaces of (\mathbb{P}^3, cS) where S is a quartic surface interpolates between the GIT moduli space and the Baily-Borel compactification as c varies in $(0,1)$. We completely describe the wall crossings of these K -moduli spaces. As a consequence, we verify Laza-O'Grady's prediction on the Hassett-Keel-Looijenga program for quartic $K3$ surfaces. This is based on joint work with K. Ascher and K. DeVleming.