

K-STABILITY AND MODULI OF QUARTIC K3 SURFACES

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

Venue: Zoom ID: 870 8729 2679

Password: 121323

Abstract: We show that K-moduli spaces of (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.