Leibniz Universität Hannover

Oberseminar
Institut für Algebraische Geometrie

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Compact moduli of K3 surfaces

Let F be a moduli space of lattice-polarized $K3$ surfaces. Suppose that one has chosen a canonical effective ample divisor R on a general $K3$ in F. We call this divisor *recognizable* if its flat limit on Kulikov surfaces is well defined. We prove that the normalization of the stable pair compactification F_R for a recognizable divisor is a Looijenga semitoroidal compactification. For polarized $K3$ surfaces (X, L) of degree $2d$, we show that the sum of rational curves in the linear system $|L|$ is a recognizable divisor, giving a modular semitoroidal compactification of F_{2d} for all d. This is a joint work with Philip Engel.

Donnerstag, 17.06.2021

16:30 - 17:30

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Alle Interessierten sind herzlich eingeladen.