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Divisors on moduli spaces of K3 surfaces

Wednesday, 1 October 2025 10:00 (1 hour)

We will discuss various aspects of the divisor geometry of moduli spaces of K3 surfaces. We provide a finite generating set of Noether—Lefschetz divisors for the Picard group, study the structure of the NL-cone, and establish numerical criteria for when a NL divisor on a moduli space of quasi-polarized K3 surfaces F_{2d} , or more generally on an orthogonal modular variety, generates an extremal ray in the cone of pseudoeffective divisors. This is based on joint works with L. Flapan, R. Zuffetti, and Shi He.

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