



Leibniz
Universität
Hannover

Oberseminar

Institut für Algebraische Geometrie

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The K -moduli of a family of conic bundles

We study the moduli space of a family of Fano threefolds and construct a compactification using K -stability. We use wall-crossings in K -moduli for certain log Fano pairs (X, cD) as the coefficient c varies. Our work is the first to systematically study these K -moduli spaces in the “non-proportional” setting, and we find surprising wall-crossing behavior. Furthermore, the threefolds we study generically admit Mori fiber space structures, and we study the behavior of these structures on the boundary of the K -moduli space. We show that a conic bundle structure is preserved, and we relate the K -moduli space of the threefolds to the GIT moduli space of the discriminant curves. This work is joint with Kristin DeVleming, Patrick Kennedy-Hunt, and Ming Hao Quek.

Donnerstag, 18.07.2024, 16:30 - 17:30, F142.

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Alle Interessierten sind herzlich eingeladen.