



Leibniz
Universität
Hannover

Oberseminar Institut für Algebraische Geometrie

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Unimodal singularities and boundary divisors in the KSBA moduli of a class of Horikawa surfaces.

Smooth minimal surfaces of general type with $K^2 = 1$, $pg = 2$, and $q = 0$ constitute a fundamental example in the geography of algebraic surfaces, and the 28-dimensional moduli space M of their canonical models admits a modular compactification \bar{M} via the minimal model program. We describe eight new irreducible boundary divisors in such compactification parametrizing reducible stable surfaces. Additionally, we study the relation with the GIT compactification of M and the Hodge theory of the degenerate surfaces that the eight divisors parametrize.

Donnerstag, 17.11.2022

16:30-17:30, Raum B302

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Alle Interessierten sind herzlich eingeladen.