



Leibniz
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Oberseminar Institut für Algebraische Geometrie

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Minimal Projective Varieties satisfying $3c_2 = c_1^2$

It is a classical fact that the Chern classes of any minimal smooth projective surface X satisfy the so-called Bogomolov-Miyaoka-Yau inequality $3c_2(X) - c_1^2(X) \geq 0$ and it is known explicitly for which surfaces equality is attained. More generally, if X is a minimal projective variety of dimension n , Miyaoka proved that $(3c_2(X) - c_1^2(X))H^{n-2} \geq 0$ for any ample divisor H on X . In this talk I want to discuss the structure of those varieties X attaining equality. In particular, we will see that abundance holds for such varieties. This is joint work in progress with M. Iwai and S.-I. Matsumura.

Donnerstag, 11.04.2024, 16:30 - 17:30, F142.

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Alle Interessierten sind herzlich eingeladen.