

Einladung

In der Reihe „Chemnitzer Mathematisches Colloquium“ der Fakultät für Mathematik der TU Chemnitz spricht

Herr Dr. Patrick Graf (z. Zt. TU Chemnitz)

über das Thema

The Structure of Algebraic Varieties with Trivial First Chern Class.

Der Vortrag findet am

Donnerstag, dem 18. Januar 2024, um 16:00 Uhr, im Raum 2/B202

statt.

Ich möchte Sie hiermit recht herzlich zu dieser Veranstaltung einladen. Das Kolloquium wird von Herrn Prof. Dr. Daniel Potts geleitet.

Abstract:

Manifolds with vanishing first Chern class are an important object of study in Complex and Algebraic Geometry, as well as an ample source of interesting examples. It is well-known (since the 1980s) that any such variety can be decomposed, up to the action of a finite group, into a product of three different types of varieties: complex tori, holomorphic symplectic manifolds, and Calabi–Yau manifolds. In my talk, I will introduce these three classes, and I will discuss how the decomposition theorem can be proved. After that, I will survey some more recent progress in this area, related to singular generalizations of complex manifolds. This includes some of my own contributions.

Prof. Dr. Daniel Potts
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