Oberseminar Geometrie und Topologie

Wintersemester 2019/2020

Dr. Davide Veniani

Universität Stuttgart

Free involutions on ihs manifolds

26. November 2019 – 16:15 Uhr
Seminarraum IGT, Raum 7.530, Pfaffenwaldring 57

Abstract: Irreducible holomorphic symplectic manifolds are one of the building blocks of kähler manifolds with vanishing first Chern class. In dimension 2 they are called K3 surfaces. Free involutions on K3 surfaces are quite interesting because they connect this class of surfaces with another class, namely Enriques surfaces. I will talk about a formula for the number of free involutions on a K3 surface (joint work with I. Shimada), the classification of K3 surfaces without any free involution (joint work with S. Brandhorst and S. Sonel) and the generalization to higher dimensions (joint work with S. Boissière).

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