Oberseminar Geometrie und Topologie

Sommersemester 2019
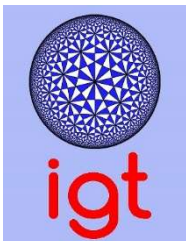
Dr. Markus Upmeier
Universität Augsburg

Orientation problems for PDEs and instanton moduli spaces

2. Juli 2019 – 16.15 Uhr
Seminarraum IGT, Raum 7.530, Pfaffenwaldring 57

Abstract: Moduli spaces of solutions to non-linear elliptic PDE's such as instantons in gauge theory are fundamental for the construction of counting invariants. Using information about the solution space provided by the index theory of an approximating family of linear differential operators, we explain our results on orientations for moduli spaces, including new developments in G2-holonomy.

Institut für Geometrie und Topologie
Pfaffenwaldring 57
70569 Stuttgart