Oberseminar Geometrie und Topologie

Wintersemester 2017/2018

Saskia Roos M. Sc.
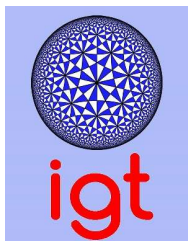
Max Planck Institute for Mathematics, Bonn

The Dirac operator under codimension one collapse

6. Februar 2018 - 16 Uhr
Seminarraum IGT, Raum 7.530, Pfaffenwaldring 57

Abstract:
After giving a characterization of a collapse of codimension one we study the behavior of Dirac eigenvalues in that situation. We show that there are converging eigenvalues if and only if there is an induced spin or pin structure on the limit space. In addition, we determine the limit operator which corresponds to the limit spectrum.

Institut für Geometrie und Topologie
Pfaffenwaldring 57

70569 Stuttgart