Oberseminar Geometrie und Topologie

Wintersemester 2018/2019

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Nearly Kähler six-manifolds with two-torus symmetry

27. November 2018 – 16.15 Uhr
Seminarraum IGT, Raum 7.530, Pfaffenwaldring 57

Abstract: We consider nearly Kähler six-manifolds with a two-torus symmetry. We construct a multi-moment map for the torus action and describe its general properties. At regular values, the action is necessarily free on the level sets and determines the geometry of three-dimensional quotients. Finally we give a result on an inverse construction producing nearly Kähler six-manifolds from three-dimensional data.

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