Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 23. Juni 2015

17 Uhr s.t., Geom H4

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Symplectic structures, moment maps, and the Donaldson geometric flow

Abstract:

A fundamental question in symplectic topology, completely open in dimension four, is whether the space of symplectic forms in a fixed cohomology class is connected. An interesting approach to this problem was introduced by Donaldson in his work on moment maps and diffeomorphisms.

In this lecture I will explain the background from symplectic geometry, outline the construction of the Donaldson geometric flow, and discuss what is known about it.
(This part is based on the work of my student Robin Krom.)

Vor dem Vortrag (ab 16.30 Uhr) stehen im Raum 327 Kaffee und Tee bereit.