



Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 10. Januar 2017

17 Uhr s.t., Geom H4

Prof. Dr. Michael Hutchings
(Berkeley, momentan HU Berlin)

Symplectic embeddings of cubes

Abstract:

A symplectic embedding of one domain in \mathbb{R}^{2n} into another is a smooth embedding which preserves the standard symplectic form. It is a fundamental problem to determine when one domain can be symplectically embedded into another. One can obstruct the existence of symplectic embeddings using various “symplectic capacities”. We introduce a new series of symplectic capacities based on positive S^1 -equivariant symplectic homology. These capacities can be computed combinatorially for “toric domains”, and lead to some sharp obstructions to symplectic embeddings in which the domain is a cube. Joint work with Jean Gutt.

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