RUB

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Oberseminar Dynamische Systeme

Invariant probability measures from pseudoholomorphic curves

Dienstag, 16. November 2021
16:15 Uhr – per Zoom

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Abstract:

We introduce a new method for producing invariant probability measures for a large class of volume-preserving flows on closed, oriented odd-dimensional smooth manifolds; these include all non-singular volume-preserving flows in dimension three. These probability measures arise as "limit sets" of pseudoholomorphic curves with infinite Hofer energy. We will also discuss an application of our method to showing that the characteristic flow on a large class of autonomous Hamiltonian energy levels is not uniquely ergodic.

Guests are very welcome!