Kolloquium über Reine Mathematik

Einladung zu einem Vortrag

Dienstag, 17. Dezember 2019

17 Uhr s.t., Geom H4

Prof. Dr. Bob Rink
(Vrije Universiteit Amsterdam)

Aubry-Mather theory for twist maps and monotone recurrence relations

Abstract:

In this colloquium talk I will try to provide an elementary introduction to Aubry-Mather theory. Aubry-Mather theory can be described as a variational method for finding quasi-periodic solutions of Hamiltonian twist maps and monotone recurrence relations. We will start with reviewing elementary results on circle homeomorphisms and slowly move on to more complicated problems. I will end with a theorem of Blaz Mramor and myself on the non-existence of invariant quasi-periodic circles (a so-called "converse KAM theorem").

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