

Geometry, Physics, and Representation Theory
Northeastern University

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C^0 Hamiltonian dynamics and a counterexample to the Arnold conjecture

Abstract.

After introducing Hamiltonian homeomorphisms and recalling some of their properties, I will focus on fixed point theory for this class of homeomorphisms. The main goal of this talk is to present the outlines of a C^0 counterexample to the Arnold conjecture in dimensions four and higher. This is joint work with Lev Buhovsky and Vincent Humiliere.