DEPARTAMENTO DE MATEMÁTICA

PUC RIO

Seminário de Dinâmica

Título: Aubry sets on surfaces

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Local: SALA 856L – Prédio Leme

Resumo: The Aubry set associated with a Tonelli Hamiltonian of class C² on the cotangent bundle of a compact manifold is an invariant set of the Hamiltonian flow enjoying very specific variational properties. The talk is concerned with the Ma generic structure of that invariant set on surfaces. We will show that there is an open dense set of potential in the C² topology for which the Aubry set is hyperbolic in its energy level.