



Seminário de Sistemas Dinâmicos da UFF

GENERIC DOUBLE EXPONENTIAL STABILITY OF ELLIPTIC FIXED POINT IN HAMILTONIAN SYSTEMS

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Resumo

We consider linearly stable elliptic fixed points (equilibrium) for a symplectic vector field and prove generic results of double-exponential stability for nearby solutions. We will focus on the neighborhood of elliptic fixed points but the case of linearly stable isotropic reducible invariant tori in a Hamiltonian system should be similar.

This is a joint work with Abed Bounemoura and Bassam Fayad.