

Jacques Fejoz | Université Paris-Dauphine

Title: Invariant submanifolds of conformal symplectic dynamics: entropy and isotropy

Conformal symplectic dynamical systems on a symplectic manifold form an extension of symplectic systems, for which the symplectic form is transformed colinearly with itself. In this context, we examine how the isotropy of an invariant submanifold relates to the entropy of the dynamics it carries. Central to our study is an inequality daughter of Yomdin's inequality on volume growth.

This is a joint work with Marie-Claude Arnaud.