

Marie Claude Arnaud | Université Paris Cité

Title: The dynamics of conformal Hamiltonian flows: dissipativity and conservativity

Abstract: We will introduce the notion of conformal symplectic manifolds, that are manifolds endowed with a symplectic form that is only locally defined, and we will study their autonomous Hamiltonian systems.

We will explain that they may have dissipative and conservative behaviours in a robust way. We will also prove that their minimal rotational invariant tori are Lagrangian.

This is a joint work with Simon Allais, Université de Paris Cité