

Bifoliated planes, Anosov-like actions and rigidity

jeudi 2 mai 2024 15:00 (1 heure)

A bifoliated plane is a topological plane equipped with two transverse (possibly singular) foliations. Given a group G , an Anosov-like action is an action of G on a bifoliated plane satisfying a few axioms, first among them is the fact that each point in the plane fixed by an element of the group is a hyperbolic fixed point.

Such actions were first introduced as an axiomatization, and generalization, of the natural action induced by a 3-dimensional (pseudo)-Anosov flow on its orbit space. It turns out that a lot of the dynamical behaviors that we see in Anosov flows also appears in this context. In this talk I will describe some of these features, such as recovering basic sets and the Smale order for non-transitive Anosov-like actions, as well as prove a rigidity result: An Anosov-like action is uniquely determined by its induced action on the circle at infinity of the bifoliated plane.

This is joint work with Christian Bonatti and Kathryn Mann.

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