

Antoine MEDDANE : *Morse Inequalities for Axiom A flows*

Axiom A flows are flows introduced by Smale in the 60' to generalise the geodesic flows on negatively curved manifolds (and more generally the Anosov flows) and the Morse gradient flows. The dynamics of the latest are well-known to be related to the topology of the underlying manifold, notably through Morse inequalities. After presenting the Axiom A flows, we will explain how tools from microlocal analysis can be used in order to obtain general Morse inequalities for Axiom A flows (verifying the strong transversality assumption) which extend the previous ones. This work constitutes a progress towards the links between the dynamics of Axiom A flows and the topology of the underlying manifold.

Vendredi 25 novembre, 11h-12h, salle OA1.
