Abstract

In this talk, we will discuss recent progress in the theory of singular flow. More specifically, we will focus on the ergodic theory of smooth singular star flows and consider their expansiveness, continuity of the topological pressure, existence and uniqueness of equilibrium states. We will show an ergodic version of the Spectral Decomposition Conjecture: C^1 open and densely, every singular star flow has only finitely many ergodic measures of maximal entropy, and only finitely many ergodic equilibrium states for Holder continuous potentials satisfying a mild yet optimal condition. Joint with M.J. Pacifico and J. Yang.