



复旦大学数学科学学院 数学综合报告会

午间学术报告会（二百零七）

报告题目：Abundance of families of diffeomorphisms displaying infinitely many sinks for an open set of parameter values

报告人：李东宸

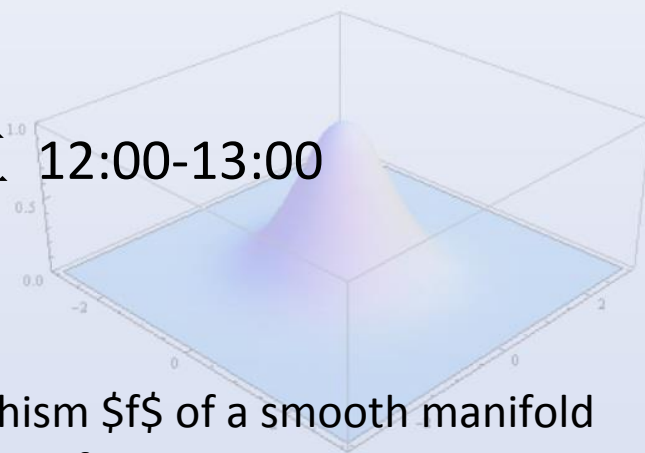
（上海数学中心）

报告时间：2026-10-09 星期五 12:00-13:00

报告地点：光华东主楼 2201

摘要：

A homoclinic tangency of a diffeomorphism f of a smooth manifold M of dimension at least 2 is an orbit of non-transverse intersection between the stable and unstable manifolds of a saddle periodic point of f . Let $\dim M \geq 3$, and let $\{f_t\}$ be any finite-parameter C^r family, $2 \leq r < \infty$, which has a homoclinic tangency to a weakly dissipative saddle for some parameter value t . We show that $\{f_t\}$ lies in the C^r -closure of an open set $\mathbf{U}$ in the space of C^r families such that generic families in $\mathbf{U}$ display infinitely many sinks for an open set of parameter values. This is joint work with Dmitry Turaev.



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