



复旦大学数学科学学院 数学综合报告会

报告题目: Generic Behavior of smooth monotone systems with respect to k -cones

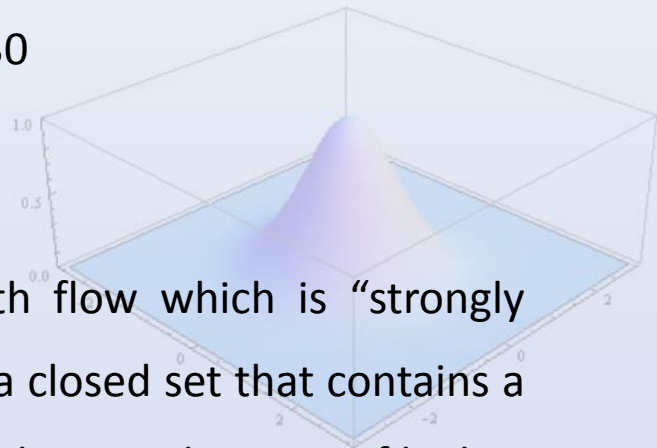
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时间: 2020-9-11 星期五 10:30-11:30

地点: 腾讯会议 ID: 773 503 085

报告摘要:

In this talk, we consider a smooth flow which is “strongly monotone” with respect to a k -cone, a closed set that contains a linear subspace of dimension k and no linear subspaces of higher dimension. We will show that orbits with initial data from an open and dense subset of the phase space are either pseudo-ordered or convergent to equilibria. This covers the celebrated Hirsch's Generic Convergence Theorem in the case $k=1$, and yields a generic Poincare-Bendixson Theorem for the case $k=2$.



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