The structure of optimal orbit: simple vs sophisticated

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报告时间：2020 年 12 月 15 日上午 9:30

腾讯会议 ID：198 342 599

链接入会：https://meeting.tencent.com/s/HYW7wqWPwLyM

报告摘要：Given a topological dynamical system T: X→X, and an continuous observable $\varphi: X \to \mathbb{R}$, we say an orbit $\mathcal{O}_{x_0} = \{x_0, T(x_0), \dots\}$ is an f-optimal orbit, if the Birkhoff average $\langle\varphi\rangle(x_0) := \lim_{n\to\infty} \frac{1}{n}\varphi(T^i(x_0))$ exists, and $\langle\varphi\rangle(x_0) \geq \limsup_{n\to\infty} \frac{1}{n}(T^i(x_0))$, for all $x \in X$, and define by $\mathcal{S}_{op} \subset X$, the set of initial states, which give rise to the optimal orbit. We will investigate the geometric structure of $\mathcal{S}_{op}$, and see how $\mathcal{S}_{op}$ varies, corresponding to the variances on the hyperbolicity of T, and regularity of φ.

欢迎各位老师和同学参加！

西北大学数学学院

2020 年 11 月 22 日

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