



复旦大学数学科学学院
数学综合报告会

报告题目: **Virus and T cell dynamics in HIV-infected individuals**

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报告时间: 2016-07-19 星期二 15:00-17:00

报告地点: 光华东主楼 1704

摘要: HIV infection is still a serious health problem in the world. Effective combination therapy can control viral replication but cannot eradicate the virus. Mathematical models, combined with experimental data, have provided important insights into HIV dynamics and immune responses. In this talk, I will present some recent work on modeling HIV infection and treatment, such as HIV latency and persistence, viral blips, virus dynamics under different drugs, treatment intensification with additional drugs, and the slow time scale of target cell depletion. Model formulation, mathematical analysis, numerical simulation (deterministic or stochastic) and comparison with data will be presented. Implications of modeling results for viral control strategies will also be discussed.

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