

Departmental Colloquium

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Propagation Dynamics for Several Types of Evolution Systems

Abstract:

The concept of propagation in reaction-diffusion equations was introduced by Kolmogorov, Petrovsky and Piskunov in 1937. In the last few decades, it has stimulated many developments in different types of evolution systems and has been found to be important in the study of biological invasion and disease spread. In this talk, we summarize some recent results inspired by the seminal paper of Hans Weinberger in 1982, from the viewpoint of dynamical systems.