

Colloquium

Stability of traveling waves in the reaction-diffusion systems

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摘 要：

Under the existence of traveling waves in reaction-diffusion (RD) systems, the stability of traveling waves means the asymptotic stability, or the so-called orbital stability due to the translation invariance of traveling waves. The stability analysis are based on the spectrum distribution of the linearized operator of RD system around the traveling waves. In the first part of this talk, some basic theories of stability will be reviewed. In the second part, we will consider stability of traveling waves in the three-species Lotka-Volterra competition-diffusion systems as the example been studied.