

On large-time behavior for birth-spread type nonlinear PDEs

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In this talk, we introduce birth-spread type nonlinear partial differential equations which is motivated by a crystal growth phenomenon. Mathematically, an interesting nonlinear phenomenon in terms of asymptotic speed of solutions appears which is sensitive to the shapes of source terms. We discuss properties of large-time asymptotic speed, and also present recent results of large-time asymptotic profile of solutions.