复旦大学数学科学学院
数学综合报告会

报告题目：Blow-up of solutions of an abstract semilinear heat equation with convex source

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时间：2021-09-23 星期四 15:00-16:00

地点：腾讯会议ID：852 207 133， 密码：24680

报告摘要：

The semilinear heat equation $u' = Lu + f(u)$, where L is a Laplacian, has been studied on manifolds and metric measure spaces and, more recently, on graphs. Under the assumption that f is convex, we give a sufficient condition for blow-up of nonnegative solutions of this equation in the setting of Lebesgue spaces over an abstract measure space. Our work recovers and extends some blow-up results from the three separate contexts mentioned above in a unified framework. The talk is based on joint work with Daniel Lenz and Marcel Schmidt.

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