



复旦大学数学科学学院
数学综合报告会

报告题目: **Anomalous diffusions and fractional order differential equations**

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摘要: Anomalous diffusion phenomenon has been observed in many natural systems, from the signalling of biological cells, to the foraging behaviour of animals, to the travel times of contaminants in groundwater.

I will first discuss the connections between anomalous diffusions and differential equations of fractional order, and then present some recent results in the study of heat kernels for non-local operators of fractional order.

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