



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

***MATHEMATICS COLLOQUIUM***

**Some recent results on stochastic homogenization  
for stable-like process**

By

**Prof. Xin CHEN**

*Shanghai Jiao Tong University*

Abstract

In this talk we will introduce some recent results on stochastic homogenization for stable-like process, including stochastic homogenization for stable-like process with possibly degenerate jumping kernel, the quantification of stochastic homogenization for stable-like random walk in random conductance model, the quantification of stochastic homogenization for the Dirichlet problem associated with stable-like process in periodic environment. This talk is based on some joint works with Zhen-qing Chen, Takashi Kumagai and Jian Wang.

**Date : 1 December 2023 (Fri)**

**Time : 5:00pm – 6:00pm\***

**Venue : Room 4502 (Lifts 25/26)\***

*All Are Welcome!*