

THE UNIVERSITY



OF HONG KONG

*Institute of Mathematical Research  
Department of Mathematics*

## Seminar

# Random multiplicative functions and beyond

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### **Abstract**

In this talk, I will survey recent progress on random multiplicative functions, a probabilistic model for multiplicative functions (such as Dirichlet characters and the Mobius function). I will also discuss its connections to GMC in probability theory and many other problems in number theory, such as the Erdos multiplication table problem, Fyodorov-Hiary-Keating conjecture, and Polya's conjecture on positive definite quadratic characters.

Date:	August 28, 2025 (Thursday)
Time:	2:00 – 3:00pm
Venue:	Room 210, Run Run Shaw Building, HKU

*All are welcome*