

# OPPENHEIM

## WORKSHOP & MINI COURSE 2023

### ABOUT

The Oppenheim Lectures is a distinguished lecture series in honour of Sir Alexander Oppenheim, first Head of the Department of Mathematics at the Raffles College (a predecessor of NUS), and a number theorist known for the Oppenheim Conjecture

The Department of Mathematics at NUS has been ranked among the best in Asia in recent QS World University Rankings by Subject. The Department offers a diverse and vibrant programme in undergraduate and graduate studies, in fundamental and applied mathematics. Faculty members' research covers all major areas of contemporary mathematics.

### CONTACT

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## Workshop

Title : Workshop on Random Systems  
Dates : Wednesday 25 & Thursday 26 October 2023  
Venue : NUS S17 Level 4 Seminar Room 1 (S17-04-06)

### Speakers:

- Giuseppe Cannizzaro, University of Warwick
- Francesca Cottini, National University of Singapore & University of Luxembourg
- Martin Hairer, École Polytechnique Fédérale de Lausanne & Imperial College London
- Apoorva Khare, Indian Institute of Science, Bangalore
- Xue-Mei Li, École Polytechnique Fédérale de Lausanne & Imperial College London
- Santiago Saglietti, Pontificia Universidad Católica de Chile
- Atul Shekhar, Tata Institute of Fundamental Research, Bangalore
- Lingfu Zhang, University of California Berkeley

## Mini Course

Speaker : Atul Shekhar, Tata Institute of Fundamental Research, Bangalore  
Title : A Brief Introduction to Stochastic PDEs  
Dates : 16 to 20 October 2023  
Time : 10 am for Monday, Wednesday & Friday  
3.30 pm for Tuesday & Thursday  
Venue : NUS S17 Level 4 Seminar Room 1 (S17-04-06)

In this mini course we will give a semi-detailed foundation to the theory of SPDEs. This means it will be a mixture of physical ideas and the underlying mathematics, but more focus will be given on ideas and how to write it mathematically. Aimed towards solving the Kardar-Parisi-Zhang (KPZ) equation, we will focus on SPDEs of parabolic semi-linear type. If time permits, we will see a glimpse of the use of regularity structures.