Workshop on the Theory and Applications of Stochastic Partial Differential Equations

June 10 - 14, 2019 at THE FIELDS INSTITUTE

The area of stochastic partial differential equations (SPDEs) has been growing steadily in the past 30 years, providing new techniques for analyzing complex systems whose behaviour is subject to random perturbations. SPDEs can be used for modelling a wide range of physical phenomena, encountered in statistical mechanics, mathematical physics, theoretical neuroscience, fluid dynamics and mathematical finance.

In addition to talks given by world-experts in this area, the workshop will contain 4 expository lectures (of 90 minutes each) given by internationally renowned researchers Robert Dalang (École Polytechnique Fédérale de Lausanne) and David Nualart (University of Kansas), intended for graduate students and researchers who are not experts in the field.

**INVITED SPEAKERS**

Hakima Bessaih, University of Wyoming  
Anne de Bouard, École Polytechnique  
Sandra Cerrai, University of Maryland  
Le Chen, University of Nevada  
Xia Chen, University of Tennessee  
Carsten Chong, EPFL  
Aurélien Deya, Institut Elie Cartan  
Mohammad Foondun, University of Strathclyde  
Yaozhong Hu, University of Alberta  
Jingyu Huang, University of Birmingham  
Davar Khoshnevisan, University of Utah  
Kunwoo Kim, Postech, Korea  
Khoa Lê, Imperial College London  
Annie Millet, Université Paris 1  
Carl Mueller, University of Rochester  
Erkan Nane, Auburn University  
Jeremy Quastel, University of Toronto  
Markus Riedle, King’s College London  
Francesco Russo, ENSTA-ParisTech  
Marta Sanz-Solé, Universitat de Barcelona  
Xiaoming Song, Drexel University  
Samy Tindel, Purdue University  
Ciprian Tudor, Université Lille 1  
Yimin Xiao, Michigan State University

**ORGANIZING COMMITTEE**

Raluca Balan, University of Ottawa  
Lluís Quer-Sardanyons, Universitat Autònoma de Barcelona  
Jian Song, University of Hong Kong

For more information, please visit: http://www.fields.utoronto.ca/activities/18-19/SPDEs