Recent Trends in Stochastic analysis Special Session B21

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Stochastic analysis methods and robust techniques have recently led to a variety of advances in the theory of (stochastic) partial differential equations (PDEs). The spectrum of applications is very wide and includes stochastic homogeneization, fluid mechanics, mathematical finance, statistical mechanics and the stochastic quantization of quantum field theories. The goal of the session is to bring together mathematicians who have applied stochastic analysis to (stochastic) PDEs of many different kinds, in particular singular stochastic PDEs such as KPZ and Φ^4 , Fisher-KPP PDE, Navier-Stokes PDE, and Stefan problems among others.

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