

# Seminar of Probability and Stochastic Process

Tuesday, 19th April, from 16h15

[MA B2 485](#), EPFL, Ecublens

**[Prof. Davar Khoshnevisan](#)**

**University of Utah**

## **A macroscopic multifractal analysis of parabolic stochastic PDEs**

### **Abstract:**

We will show that the solutions to a large family of stochastic PDEs that behave as the linear heat equation develop large-scale space-time peaks on infinitely-many different scales. We formalize this assertion by appealing to the Barlow-Taylor theory of macroscopic fractals. We will also present some earlier work on fixed-time results for comparison purposes. This talk is based on a paper and a work in progress with Kunwoo Kim (Technion) and Yimin Xiao (Michigan State University).

Date of last change: Fri, 8 April 2016 10:08:37, by Carlo Ciccarella



Loading [MathJax]/extensions/MathZoom.js

*MathJax*

/extensions/TeX/AMSsymbols.js