Department of Mathematics Seminar

Time-Dependent Averages of a Critical Long-Range Stochastic Heat Equation

By

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Abstract: In this talk, we will introduce the stochastic heat equation and discuss the motivations for studying it. A key challenge in the theory of stochastic PDEs is understanding well-posedness—what it means for a solution to exist, be unique, and behave well. We will explore different notions of solutions and highlight recent progress in this area. In the latter part of the talk, we will focus on a specific critical long-range stochastic heat equation and present a result on the behavior of its spatial averages, based on recent joint work with Ran Tao.

Date: Wednesday, April 9, 2025
Time: 15:40-16:40 (GMT+3)
Place: Zoom and Mathematics Seminar Room, SA-141

To request the Zoom link, please send an email to gokhan.yildirim@bilkent.edu.tr