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Differential Equations and Applied Math Seminar

Dr. David Damanik, Rice

12-1pm October 29th, 2021

Zoom and in Derrick 330

Title: Must the spectrum of a random Schrödinger operator contain an interval?

Abstract: In this talk we discuss the spectrum of a random Schrödinger operator and ask in particular whether it must always contain an interval. We explain why this question is open in general and appears to be fairly difficult. Then we provide a positive answer under suitable assumptions. A brief discussion of the main steps of the proof is given and the special role of the notion of a generalized ground state is highlighted. The talk is based on joint work with Anton Gorodetski (UC Irvine).

Interested faculty, graduate and undergraduate students are encouraged to attend.