



THE UNIVERSITY OF  
CHICAGO

Department of Mathematics

PROBABILITY AND STATISTICAL PHYSICS SEMINAR

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“Chaos in lattice spin glasses”

FRIDAY, May 3, 2024, at 2:30 PM  
Eckhart 202, 5734 S. University Avenue

## ABSTRACT

In spite of tremendous progress in the mean-field theory of spin glasses in the last forty years, culminating in Giorgio Parisi’s Nobel Prize in 2021, the more “realistic” short-range spin glass models have remained almost completely intractable. In this talk, I will show that the ground states of short-range spin glasses are chaotic with respect to small perturbations of the disorder, settling a conjecture made by Daniel Fisher and David Huse in 1986.