Spectral gap and two point functions for mean-field spin glass models

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Changji Xu is currently a quantitative researcher at Two Sigma. Previously, he was a postdoctoral fellow in the Center of Mathematical Sciences and Applications at Harvard University, under the supervision of Prof. Horng-Tzer Yau. He received a Ph.D. in statistics at the University of Chicago in 2020, advised by Prof. Jian Ding, and a B.S. in mathematics at Tsinghua University in 2015.

Abstract：In this talk, I will discuss recent progress in mean-field spin glass models. Specifically, I will present a method to prove that the spectral gap of the Dirichlet form associated with Glauber dynamics is of order one at sufficiently high temperatures. Furthermore, I will talk about operator norm bounds on correlation matrix for the SK model under high-temperature conditions.

讲座时间：

2024.3.20周三上午10：00-11：00
会议地点：ZOOM会议室会议ID：3541437366密码：123456

主办单位：
中科院数学与系统科学研究院应用数学所
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