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THE WEIZMANN INSTITUTE OF SCIENCE  
FACULTY OF MATHEMATICS AND COMPUTER SCIENCE  
Geometric Functional Analysis and Probability Seminar

Room 290C ,Ziskind Building  
on Thursday, Jun 16, 2016at 12:00

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Critical points and the Gibbs measure of pure spherical spin glasses

Abstract:

Recently, several results concerning the critical points of the energy landscape of pure  $p$ -spin spherical spin glasses have been obtained by means of moment computations and a proof of a certain invariance property. I will describe those and explain how they can be boosted by an investigation of the behavior around the critical points to obtain a geometric description for the Gibbs measure at low enough temperature. The talk is based on joint work with Ofer Zeitouni.