

Institute for Applied Mathematics, Bonn University

Oberseminar Stochastik

Thursday, 25 October 2018, 16:30

Lipschitz-Saal (LWK 1.016)

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Activated Dynamics of the Cascading 2-GREM : scaling limits and aging

In this talk I will present recent results on the low temperature dynamics of a mean-field spin glass model, Derrida's Generalized Random Energy Model (GREM) with two levels. To motivate our choice of model and dynamics I will outline the state of the art of the field of activated dynamics and aging of mean-field spin glasses. I will then discuss a new phenomenon called Fine Tuning that emerges from the analysis of the GREM dynamics, and leads to new aging behaviors that were not predicted in the physics literature.

This is based on the joint work arXiv:1801.08832 with Luiz Renato Fontes.