

ID: 8.1b

Title: Microscopic Dynamics of Ising Spin Glasses in Presence of an External Magnetic Field

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We study the behavior of the Ising Spin Glass (the Edwards-Anderson model) with a magnetic field out of equilibrium. We performed simulations with both fixed temperature and with an annealing algorithm. We used -purpose computer Janus, based on FPGAs, so we were able to reach times up to 0.1s. We have computed dynamics correlation functions and coherence lengths. Furthermore, we studied if the system presents the Almeida-Thouless line, to find whether the system behaves as in the droplet scenario or as in the RSB one.