

Random Field Ising model, dimensional reduction and supersymmetry

Wednesday, 21 December 2022 12:30 (30 minutes)

I will present recent results for the study of the Random Field Ising model in various dimensions. Using results of large scale numerical simulations, I will argue that dimensional reduction is valid at $D=5$ and that we observe the consequences of supersymmetry. Next, I will discuss recent analytical results in $D=4$ which argued that there should also exist a fixed point with dimensional reduction but hidden by the presence of relevant interactions.

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