

Abstract Submitted
for the MAR05 Meeting of
The American Physical Society

Renormalization study of Ising Spin Glasses in a transverse field

DAVID CARPENTIER, CNRS - ENS Lyon, PIERRE PUJOL, ENS Lyon — We study an ensemble of Ising spins coupled by random antiferromagnetic/ferromagnetic couplings, and submitted to a (random) transverse field in low dimensions. We use an extension of the Ma-Dasgupta decimation procedure to study the low energy behaviour of this quantum spin glass. Particular attention is paid to the relevance of frustration near infinite disorder fixed points.

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Date submitted: 30 Nov 2004

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