Abstract Submitted
for the MAR05 Meeting of
The American Physical Society

Exact Solution of the Heinsenberg-Kondo Quantum Spin Glass, Showing that an Infinite Order Quantum Phase Transition Occurs Between the Quantum Spin Glass and Kondo Spin Quenched Phases at a Temperature of Order Ten Times Lower than that Given by Mean Fi ROBERT SCHRIEFFER, National High Magnetic Field Laboratory and Department of Physics, Florida State University, Tallahassee, FL 32310, BERNARD COQBLIN, de Physiques des Solides, CNRS, University Paris-Sud, Orsay, France — We have exactly solved the Heisenberg-Kondo model of a quantum spin glass, showing that an infinite order phase transition occurs between the quantum spin glass phase and the Kondo spin quenched phase at a temperature T_c of an order of magnitude smaller than that given by mean field theory, which predicts a fast order phase transition. The phase diagram will be presented as a function of the ratio of the Kondo exchange $J^K$and Heisenberg exchange J^H divided by the Fermion band width W.

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Date submitted: 01 Dec 2004 Electronic form version 1.4