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## Heisenberg Spin Systems with Long Ranged Couplings UTE LÖW,

Universitaet Dortmund, Institut fuer Physik, D44221 Dortmund — Static correlation functions of Heisenberg spin systems with various (non-frustrated) topologies are studied by means of Quantum-Monte Carlo techniques. In particular dimerizations and longer ranged variations of spin couplings and alternations between ferromagnetic and anti-ferromagnetic couplings are considered. The phenomenology of possible ground state phase diagrams is discussed.

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