

Seminar

Prof. Bruno Nachtergaele

University of California, Davis

Frustration-Free Quantum Spin Systems

Wednesday, July 8, 2015

at 14:00 h

ESI, Boltzmann Lecture Hall

Abstract: A quantum spin model is called frustration-free if the expectation of every term in the Hamiltonian can be minimized individually in a ground state. This property is shared by a wide range of models for which non-trivial interesting results have been proved in recent years. The frustration-freeness implies concrete structural properties of the ground states, in particular of its entanglement structure. We will review some of the recent advances on this class of models.

L. Erdoes, R. Seiringer, S. Warzel

July 1, 2015