



MAURIZIO FAGOTTI 'Stationary Behavior of Observables after a Quantum Quench'

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January 17, 2014

Seminar, January 17, 2014, 12:00. Seminar Room

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I consider the non-equilibrium time evolution (quantum quench) of a class of pure states under the Hamiltonian of an integrable model. At late times after the quench, it is believed that the expectation values of local operators approach time-independent values that are described by a generalized Gibbs ensemble. I discuss the essential features of the stationary state and present some recent results on global quenches in the spin-1/2 Heisenberg XXZ chain. Finally, I go into the issue of relaxation and pre-relaxation in integrable models.



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Hosted by Prof. Maciej Lewenstein