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Dynamics in integrable quantum systems

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In integrable quantum many-body systems exact results for the ground state and the thermodynamic properties can be derived. These results are an important building block in our understanding of quantum systems with strong correlations. They are also a point of reference to judge the quality of approximative analytical and numerical approaches. Within the last years, a number of experiments on cold atomic gases have been performed studying the dynamics of almost integrable systems. In my talk I will present new theoretical results which allow to understand the transport properties of such systems and to gain insight into the connections between quantum integrability and non-ergodic dynamics.

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