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Title: Many-body theory of non-equilibrium systems. Authors: Alex Kamenev (Submitted on 11 Dec 2004 , last revised 7 Feb 2005 (this version, v2)) Abstract: Lectures notes for 2004 Les Houches Summer School on "Nanoscopic Quantum Transport". These lectures

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[cond-mat/0412296] Many-body theory of non-equilibrium systems

A large number can be anywhere from three to infinity (in the case of a practically infinite, homogeneous or periodic system, such as a crystal), although three- and four-body systems can be treated by specific means (respectively the Faddeev and Faddeev – Yakubovsky equations) and are thus sometimes separately classified as few-body systems.

Many-body problem - Wikipedia

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The nonequilibrium Green function theory is described and used for the derivation of the quantum kinetic equations. Numerical methods for the solution of the retarded quantum kinetic equations are discussed and results are presented for high-field transport and for mesoscopic transport phenomena.