Abstract for GR-TR Conference on Statistical Mechanics and Dynamical Systems

Plenary Invited Invited Talk

Characterization of heat transport in one-dimensional systems

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Heat transport in classical one-dimensional systems is reviewed with the goal of identifying the various universality classes. Particular emphasis is given to the anomalous behaviour that is typical of translationally invariant systems. A simple stochastic model is also discussed, which allows clarifying the structure of the (non-equilibrium) invariant measure in a contenxt of anomalous (i.e. diverging) heat conductivity.