Large-time Dynamics of Classical and Quantum Systems

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Title: 10 challenging problems in classical dynamics

Abstract: We discuss four groups of problems arising in the theory of randomly forced PDEs. They are related to mixing of a random flow, Donsker-Varadhan type large deviations, estimation of a parameter, and the vanishing noise limit. For each problem, we give a rather precise formulation, summarise some known results, and outline the main difficulties.