Invariant measures for Φ^4 model with potentials

Reika Fukuizumi (Waseda University/ Osaka University)

Abstract

In this talk, I will present an overview of our work to date on the stochastic projected Gross–Pitaevskii equation (SPGPE), a macroscopic model for finite-temperature Bose–Einstein condensates. In particular, I will discuss the existence and properties of statistical-mechanical equilibrium states in the stochastic GP equation and compare these results with recent advances in Φ^4 theory. This talk is based on several collaborative works with A. de Bouard, A. Debussche, A. Deya, and L. Thomann.