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*Ballistic macroscopic fluctuation theory: formalism and applications*

Recently, ballistic macroscopic fluctuation theory (BMFT) was invented as a generalization of macroscopic fluctuation theory (MFT) to study large fluctuations in systems that support ballistic transport, such as integrable systems. In this talk, I will overview the main idea of BMFT and show how it allows us to compute objects like the current cumulant generating function. I will then review an important application of BMFT, which is to describe the hydrodynamic origin of the so-called anomalous fluctuations.