

OpenQMBP2023: New perspectives in the out-of-equilibrium dynamics of open many-body quantum systems



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Long-range correlations from Euler hydrodynamics

Tuesday, June 27, 2023 3:40 PM (20 minutes)

Long-range correlations have been known to exist in various situations in many-body systems. In this talk, I will show that novel hydrodynamic long-range correlations can occur in many-body systems that support ballistic transport. To describe these correlations quantitatively, I will also introduce a ballistic version of macroscopic fluctuation theory (MFT), which we call ballistic MFT (BMFT).

Presenter: YOSHIMURA, Takato

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