

New physics from non-equilibrium cold atoms by holography

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Holography has emerged as a pivotal tool in investigating the nonequilibrium physics of quantum many-body systems, particularly offering a systematic approach to stability and dynamical phase transitions through the theory of black hole perturbations and dynamics. This report aims to present some exciting recent advancements in this interdisciplinary field, with a focus on recent works concerning quantum vortex splitting and dissipative discrete time crystals.

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