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# Quantum Thermalization and Novel Phases in Non-equilibrium Quantum Systems

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报告题目: Quantum Thermalization and Novel Phases in Non-equilibrium Quantum Systems

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摘要:

Universal quantum computers offer us the opportunities to implement novel quantum matter far away from equilibrium states. There has been remarkable progress in our understanding of the non-ergodic and long-lived quantum systems in recent years, including many-body localization (MBL) and prethermalization systems. Here we summarize the theory of quantum thermodynamics and experimental progress on the long-lived quantum phases, and discuss how to achieve novel quantum matter which has never been designed before.

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Qihao Guo graduated from Xi'an Jiaotong University and received B.S. in Honors Science Program (Physics) in 2020. He is currently a research assistant in Southern University of Science and Technology (SUSTech) and works as a theorist in Superconducting Circuit Group. His research interest includes novel quantum matter, quantum computation and simulation, quantum network and many-body physics. He has published research papers in Top Physical Journals such as Physical Review Letters and Science Bulletin.

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