

ENGINEERING QUANTUM MANY-BODY SYSTEMS ATOM BY ATOM

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MPQ Garching & LMU Munich Germany The complexity of quantum many-body systems scales exponentially with the number of constituents, posing challenges for classical methods to explore their phenomena. Quantum simulation using neutral atoms in optical arrays offers a promising approach to overcome these limitations.

In this talk, I will discuss how quantum many-body systems can be engineered and studied at the single-atom scale.

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