

QUANTUM SIMULATION AT THE ATOM-PHOTON INTERFACE

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Quantum simulation is traditionally conducted at extremely low temperatures. By using the strong coupling between atoms and light to build superradiance lattices, we can perform quantum simulation at room temperature. By exploiting the quantum degree of freedom of light, we can also build lattices in the Fock state space, providing a wealth of topological states that are fundamentally different from those in classical topological photonics.

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