

QUANTUM GAS MICROSCOPY OF MANY-BODY SYSTEMS

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Strongly correlated quantum systems pose a challenge to theory and experiment. Ultracold atoms in optical lattices have been very successful at performing quantum simulations of Hubbard models. I will first discuss recent developments in site-resolved detection of electronic systems and then present microscopy of three-flavor Hubbard systems, which show a wide variety of novel exotic quantum phases and provide a path towards the study of color superfluidity and other aspects of quantum chromodynamics.

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