

ELECTRONIC AND LATTICE CORRELATIONS IN QUANTUM MATERIALS

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Collective behavior in quantum materials arises from complex interactions between electrons and lattice degrees of freedom. Here, we will address how to disentangle and eventually control this interplay. We will assess the nature of electron correlations emerging in moiré quantum systems and examine the characteristics of superconductivity and charge density waves in fullerenes, kagome metals, and two-dimensional materials.

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