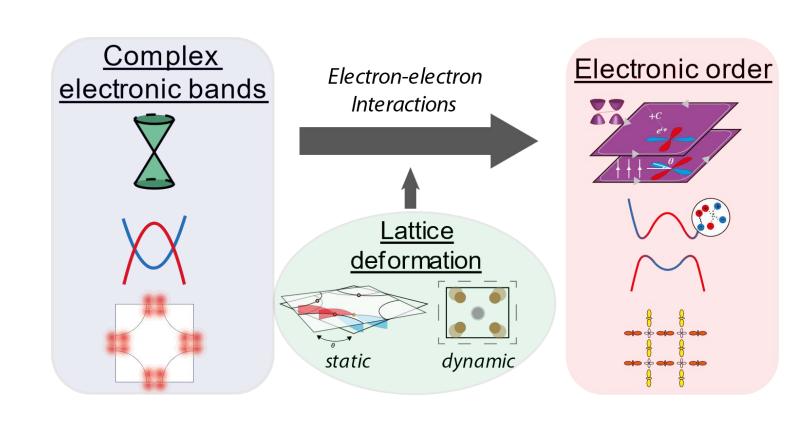
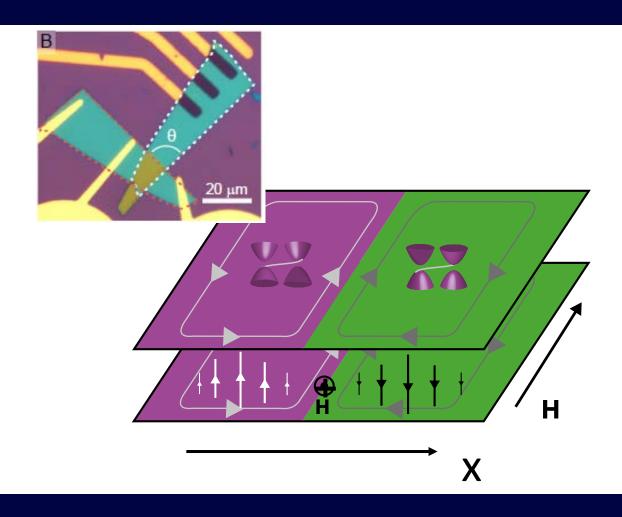
Strong electronic correlations

Electron-lattice interplay

 Plans: Quantum sensing of correlated 2D materials/interfaces

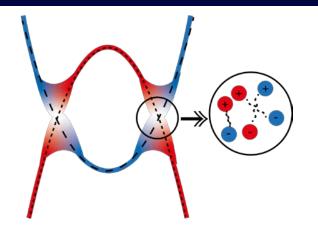


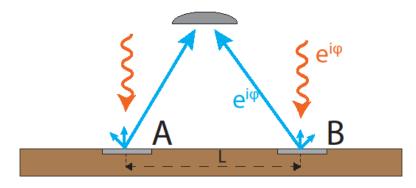
- 2D materials/interfaces
 - Engineering quantum electrons/quasiparticles
 - Twistronics to realize topological states
- Quantum coherent orders
 - Superconductivity, Excitonic condensates
- Quantum sensing
 - FE fluctuations with NV centers





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Non-local ARPES: Collaboration w/Carlos Trallero



- 2D materials/interfaces
 - Engineering quantum electrons/quasiparticles
- Quantum coherent orders
 - Superconductivity, Excitons
- Quantum sensing
 - FE fluctuations with NV centers
 (collaboration w/R. Sahay[Harvard] and S. Chatterjee [CMU])

