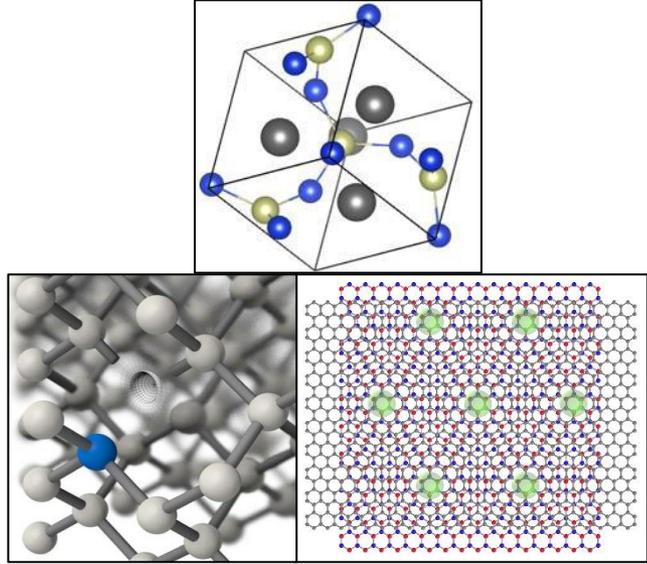


# Center for Novel Pathways to Quantum Coherence in Materials (NPQC)

Joel Moore (Lawrence Berkeley National Laboratory); Class: 2018-2022

**MISSION:** To expand dramatically our understanding and control of coherence in solids by building on recent discoveries in quantum materials along with advances in experimental and computational techniques.



<https://npqc.lbl.gov>

## RESEARCH PLAN

NPQC will study three families of materials in which quantum coherence is especially important, using a variety of advanced characterization techniques and theoretical methods. Major outcomes will include new approaches to solid-state quantum sensing and quantum spectroscopy, along with controllable crossovers between coherent and incoherent behavior in transport and optical properties.