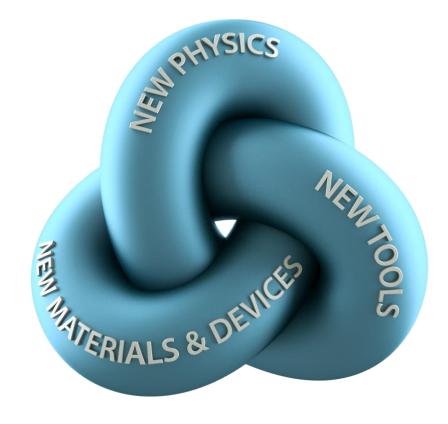
Programmable Quantum Materials (Pro-QM) Dimitri N. Basov (Columbia University); Class: 2018-2026

MISSION: To discover, characterize and deploy new forms of quantum matter controllable by light, gating, magnetic proximity electromagnetic environment, and nano-mechanical manipulation, effectively programming their quantum properties.

RESEARCH PLAN

Realizing the potential for programmable quantum matter requires a three-pronged approach, combining *i*) the unique suite of controls and driving perturbations with *ii*) a transformative set of synthesis/device fabrication capabilities and *iii*) new nanoscale characterization techniques integrated in a single platform.



https://quantum-materials.columbia.edu









