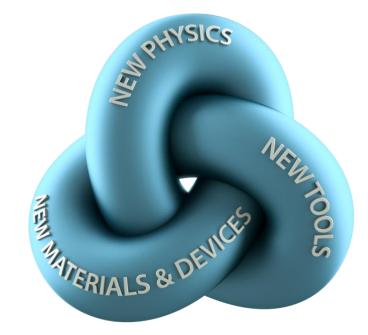
## **Programmable Quantum Materials (Pro-QM)**

Dmitri N. Basov (Columbia University); Class: 2018-2022

**MISSION:** To discover, characterize, and deploy new forms of quantum matter controllable by gating, magnetic proximity and nanomechanical manipulation.



https://quantum-materials.columbia.edu

## **RESEARCH PLAN**

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





