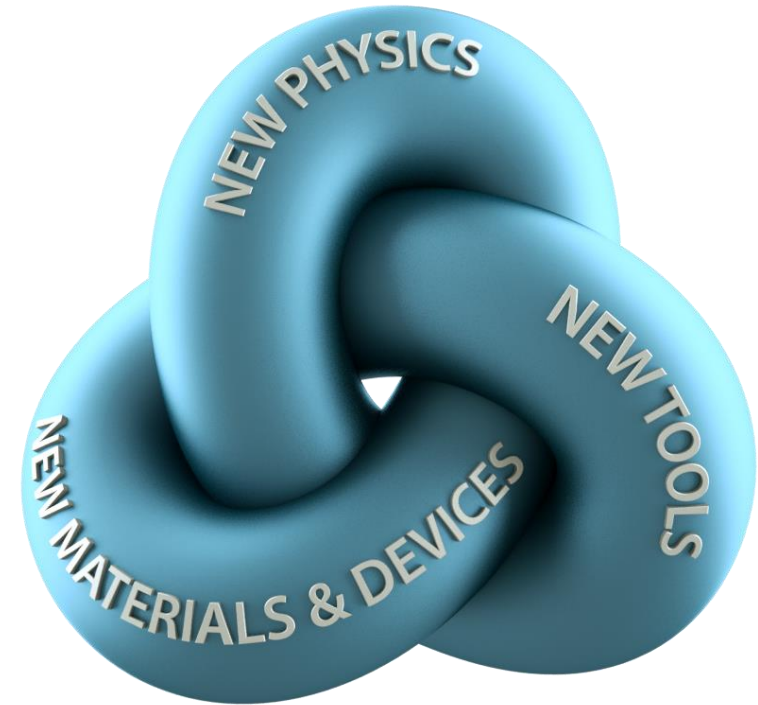


Programmable Quantum Materials (Pro-QM)

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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>

