Applied Physics and
Applied Mathematics
with
Materials Science and Engineering

Applied Mathematics

Materials Science and Engineering

Applied Physics

Joint w/ EE
Applied Physics

Materials Physics

Nanoscience/ Nanomaterials

Optical Physics

Plasma Physics

Atmospheric and Earth Physics
State-of-the-Art Facilities

CNI Cleanroom Facility

CUNY Nanofabrication Facility

Brookhaven National Labs
Areas of Research

**Solid-state physics:** nanoscience, nanofabrication, nanocharacterization

Expt: Bailey, Bang, Billinge, Im, Pinczuk, Venkataraman
Basov (Phys), Dean (Physics), Hone (MechE), Pasupathy (Phys)

Theory: Marianetti, Wenztcovitch
Millis (Physics)

**Optical physics:** nanophotonics, quantum & nonlinear photonics

Expt: Gaeta, Herman, Lipson, Yu
Bergman (EE), Schuck (MechE), Will (Phys), Zelevinsky (Phys), Zhu (Chemistry)

Theory: Weinstein, Asenjo-Garcia (Physics)