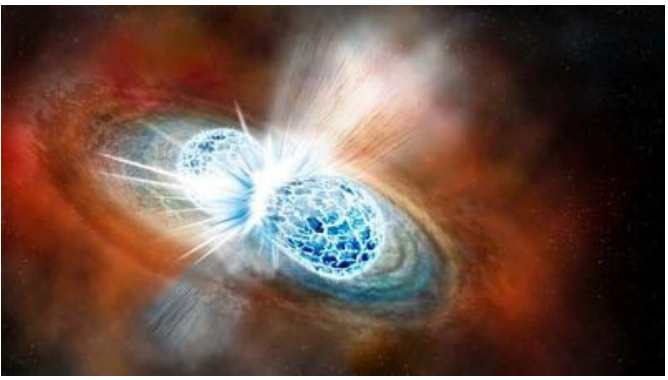
Lab Tour A (Pitt)



Astronomy and Cosmology: Come chat with grad student researchers who are working on galaxy surveys, numerical modeling of stars, and studying the distribution of dark matter in the universe.

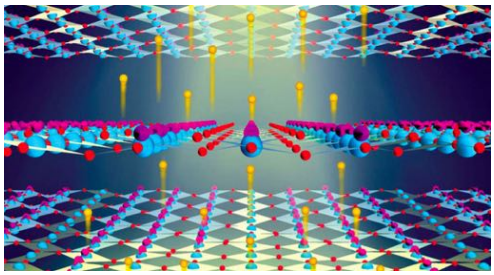
Physics Education Research: Can we improve how all students learn physics? Talk with grad students who do education research in the physics department.

Savinov Lab (particle physics experiment). Electronics and software development for the BELLE B-meson factory in Tsukuba, Japan. B-mesons are the heaviest composite particles displaying CP violation, and are a window into possible new physics beyond the Standard Model.

Lab Tour B (Pitt)

Levy Lab (condensed matter experiment:) Come see the nanoscale Etch-a-Sketch. Configurable quantum devices made from a hybrid material with remarkable properties. Novel devices that exhibit unusual quantum properties.

Quantum Theory: Talk with grad students about research in quantum theory and theoretical condensed matter physics.



Hatridge Lab: Quantum computing using superconducting qubits and microwave waveguides. See a working 2-qubit quantum computer. This lab makes the world's lowest-noise quantum amplifiers.

Salman Lab (Biophysics): See novel devices to observe dozens of generations of bacterial cells. Two identical daughter cells display very similar size variations over many generations, showing that some unknown mechanism controls cell sizes at division.