

Faculty Member

Chen

Hung

Iyer-Biswas

Jones

Jung

Kais

Koltick

Lang

Manfra

Melosh

Neumeister

Peterson

Pushkar

Pyrak-Nolte

Rebello

Robicheaux

Rodriguez

Rokhinson

Area

AMO/Quantum Matter Physics

AMO - Quantum Gas and Photonics

Biophysics (exp or the)

High Energy (exp) - 1) CMS hardware upgrades and 2) Analysis of CMS data

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Condensed Matter (the) - Near term application of quantum information and computation

High Energy (exp) - Charged Particle Lepton Flavor Violation - Fermilab Mu2e Experiment

Nuclear Physics (exp) - Fast neutron cross sections on ubiquitous materials

Dark Matter Searches (exp)

Condensed Matter (exp)

Planetary Physics - How the ubiquitous ridges on Europa form as a result of the interaction of water from its subsurface ocean with the much colder surface, and implications for possible life in the subsurface

High Energy (exp)/Physics Analysis at LHC

Astrophysics

Biophysics / brain studies/brain imaging

Biophysics / time resolved X-ray spectroscopy and optical spectroscopy

Geophysics - Wave Propagation in Fractured Media with Acoustic Contrasting Agents

Physics Education Research

AMO (the)

Computational Physics

Condensed Matter (exp)

Most faculty take on students enrolled in PHYS 590 - Reading and Research as a first step to taking a student into a research group. While not usually a paid RA position, this course often leads to a supported position in a research group as research funding becomes available, or as senior students graduate. Students are encouraged to take 590's early (while still TAing). If you are interested in working with a faculty member who is not on the above list, please contact them directly about the PHYS 590 option.