

Graduate Studies in Nuclear Physics at
**Indiana University and the Indiana University Cyclotron
Facility (IUCF)**



Nuclear People:

Experimental Faculty:	9
Theoretical Faculty:	4
Accelerator Physics Faculty:	2
Postdocs	8
Graduate Students:	20

Rankings:

#5 Graduate Nuclear Physics program,
U.S. News & World Report

Application deadline:

Dec 1 for international applicants,
January 15 for domestic applicants

**General university, department,
and admissions information:**

www.iub.edu

Departmental web site:

www.physics.indiana.edu
www.iucf.indiana.edu

Application site:

www.indiana.edu/~iuadmit/

Contact in Nuclear Physics:

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www.iucf.indiana.edu

General Info:

Indiana University was founded in 1820. IU has over 120 majors and programs ranked in the nation's top 20 and is rated among the top 100 universities in the world thanks to 25 years of visionary leadership by Hermann B Wells, one of the greatest university president/chancellors of the 20th century. IU offers instruction in over 70 languages, was the first university to offer a degree in folklore and a doctorate in gender studies, and possesses the top-ranked Jacobs School of Music, the School of Public and Environmental Affairs, the Lilly Library, and the Kinsey Institute. IUB is consistently rated among the best campuses in the US in computing resources. Students come from all 50 states in the US and more than 159 countries. On-campus enrollment at IUB for the 2007 fall semester was approximately 40,000, including 9,000 graduate and professional students.

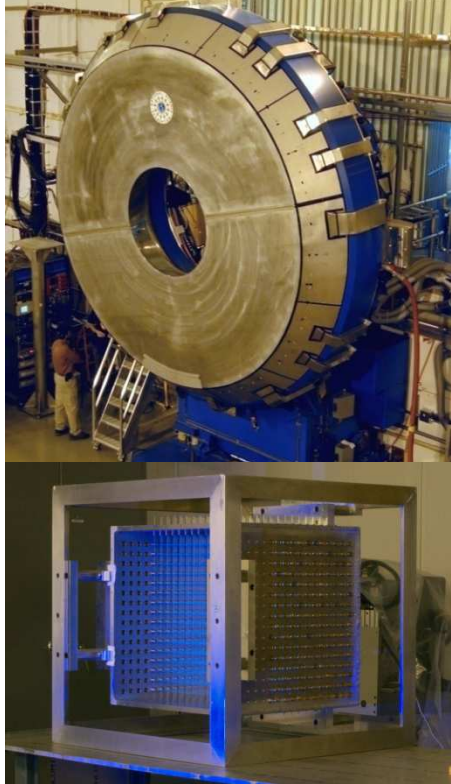
Nuclear physics research areas:

Accelerator physics
Nuclear reactions
Neutron physics/weak interactions
Neutrino physics
Precision measurement/symmetry violation searches
Angular momentum of gluons and quarks in the proton
Neutron star composition and dynamics
QCD theory

Other broad research areas in department:

Astrophysics
Biophysics/Biocomplexity Institute
Condensed matter physics
Elementary particle physics

Indiana University



Indiana University Cyclotron Facility (IUCF):

The Indiana University Cyclotron Facility (IUCF) is a unique multipurpose research lab located on the campus of Indiana University Bloomington. The ~130 staff, faculty, and students at IUCF conduct advanced research in nuclear physics, materials science, accelerator physics, biological physics, and medical physics. IUCF houses both the research labs and construction and assembly facilities for the IU experimental nuclear physics group and the site of the IU Nuclear Theory Center. The experimental nuclear physics group is active in neutrino oscillation and cross section measurements, neutron weak interactions, nuclear reactions, proton spin physics, and searches for electric dipole moments. Nuclear theorists are active in QCD/strong interaction theory and in applications to astrophysics. IUCF operates the Low Energy Neutron Source (LENS) for neutron physics, scattering, and imaging, a cyclotron that delivers a proton beam to the adjacent Midwest Proton Radiotherapy Institute (MPRI), and is constructing a unique electron storage ring for coherent X-ray generation, accelerator physics studies, and defense applications. Pictures show the STAR endcap calorimeter and the Scibath neutrino detector.

Website: www.iucf.indiana.edu

Indiana University Physics Department:



The IU nuclear physics group is part of a larger effort at IU in nuclear physics, particle physics, and astrophysics. IU faculty in experimental high energy and neutrino physics play leadership roles in collider physics (ATLAS and D0), neutrino oscillation physics (MINOS and NOVA), strong interaction physics (CLEO and GlueX) and astrophysics (SNAP and CREST). IU faculty in theoretical high energy physics are active in lattice gauge theory, Lorentz and CPT violation, and beyond-Standard Model phenomenology. Thirty-three IU faculty are active in these areas.

Website: www.physics.indiana.edu

About Bloomington:



The flagship campus of Indiana University, located in Bloomington, is widely considered to be one of the most beautiful college campuses in the US. Bloomington is a small college town of ~70,000 city residents (including the university) and ~175,000 in the metro area. Located in the southwestern portion of the state, the city is surrounded by rolling hills and a woodland environment with several nearby lakes, state forests, and wetlands. The city hosts several national and international music and arts festivals, musical performances, and theatrical acts. The Wonderlab science museum and the Tibetan Mongolian Buddhist Cultural Center (pictured) also attract many visitors. Website: www.visitbloomington.com