



Dear Alumni and Friends:

Welcome to the first of our quarterly newsletters for the Indiana University Physics Department. We will be sending out these short updates between the yearly mailings to keep you up to date on the activities of the Physics Department. We'd love to hear what you think of the newsletter and what you are doing so please visit us at alumni.indiana.edu/directory

IU Scientists in two collaborations see evidence that rules of particle physics may need a rewrite

Two separate collaborations involving Indiana University scientists have presented new results suggesting unexpected differences between neutrinos and their antiparticle brethren. These results could set the stage for what one IU physicist calls a "radical modification of our understanding of particle physics."

[Learn more about this research](#)

Low Energy Neutron Source receives major grant

IU physics facility awarded \$5 million for cooperative neutron research. A recently awarded NIST grant provides close to \$1 million a year for five years to support cooperative research activities between the Low Energy Neutron Source (LENS) at IU Bloomington and NIST's National Center for Neutron Research, located in Gaithersburg, Md. [Learn more about this award.](#)

Not Your Average Telescope

Billions of times brighter than the sun, supernovae have captivated scientists for centuries. Indiana University astrophysicist James Musser is part of a team developing the Cosmic Ray Electron Synchrotron Telescope in hopes of learning more about the particle emitted by supernovae.

[Learn more about this research](#)

To remove your name from our mailing list, please [click here](#).

Questions or comments? Email us at anfoley@indiana.edu



A young scientist experiments with the Van de Graff generator.

Physics Department Open House

The Physics and Astronomy Open House will take place from 9:00 AM to 2:30 PM on Saturday October 23. The free event features a wide range of experiences including indoor and outdoor exploratoria of hands-on physics and science activities, traditional and demonstration lectures, and exciting tours of local facilities. The Open House is aimed at people of all ages from across the state of Indiana and is open to everyone.

We are hoping that our local alumni and friends will join us for this event. If you let us know you are coming we will reserve special seating for you and your family members at the lectures. Please e-mail [Anne Foley](mailto:anfoley@indiana.edu) (anfoley@indiana.edu) for details.

[Learn more about the open house](#)