Research Highlights

Prof. David Beratan has been chosen as the Director of the Center for Synthesizing Quantum Coherence, a new center funded by the National Science Foundation. This center is a part of the Phase I Center for Chemical Innovation. This is a multi-University center led by Duke University. More information can be found at our website.

Prof. Haiyan Gao and her research group recently published an exciting new result in Nature on resolving the proton charge radius puzzle. Graduate student Weizhi Xiong is the lead author of the paper. You can read the paper online here. A summary of the news also appears on our news-website.

Prof. Henry Everitt and colleagues have published an article in Science on a new kind of laser that runs on laughing gas and produces coherent electromagnetic radiation in the terahertz frequency. You can read more about the research at the research blog website here.

Graduate student Yiqui Zhao and Prof. Joshua Socolar (in collaboration with Prof. Robert Behringer before his passing) have published an article in Physical Review Letters on a new type of phase transition related to the physics of Jamming. The paper can be found here. You can also read the APS viewpoint article, which highlights the paper, here.

“The Magnificent CEvNS,” a workshop focused on theoretical and experimental aspects of coherent elastic neutrino-nucleus scattering was held in Chapel Hill on November 9-11, 2019. The event was organized by several Duke faculty and students and led by Prof. Phil Barbeau. The news can be found on our news-website.

Important Dates

- Students wishing to graduate in May 2020, need to apply for graduation before January 25, submit the electronic dissertation by March 16, defend the thesis by April 1, and submit their doctoral thesis by April 15, 2020. More information about these deadlines can be found here.
- The Graduate Open House, for showcasing our department to new graduate students as a part of the admissions process, will take place on February 20 and 21, 2020.
Parties and Celebrations

- Celebrate our universe by joining the Public Stargazing event with faculty and students. These events are scheduled regularly for the public. The next event is on December 6. More information about the event can be found here.
- Celebrate the departmental accomplishments at the Fall Holiday Party on December 18, at the Doris Duke Center from 7-10pm.

The Duke Physics Monthly Newsletter offers content submitted by the members of the department, with light editing by news and web committee. Previous issues are archived. Please send content for the next edition and any suggestions to news@phy.duke.edu - we look forward to hearing from you!