

OCTOBER 1, 2023

DEPARTMENT NEWS

STUDENT NEWS

Elizabeth Goreth: Astronomy Public Talk

Elizabeth Goreth, one of our undergraduate students, gave a public talk titled "Celestial Hide and Seek: The Game of Eclipses" on September 24.

Lorena Magaña Zertuche, Baisakhi Mitra, Josh Moore, & Bin Liang: UM Physics Colloquium Talks

Three graduate student research talks were featured in the September 05 department colloquium. Lorena's talk was titled "High-precision ringdown Modeling". Bin's talk was titled "A lower frequency signal emitted from tornadoes based on a new mechanism." Josh's talk was titled "Entanglement and quantum spin chains." The September 26 colloquium talk titled "The world's most precise measurement of the anomalous magnetic moment of the muon" was given by Baisakhi.

Baisakhi Mitra & Byungchul Yu: URA Visiting Scholar Fellowships

Baisakhi and Byungchul were just awarded Universities Research Association (URA) Visiting Scholar fellowships. These awards will support their research in residence at Fermilab over the next year on the Muon $g-2$ experiment. The Visiting Scholars Program is a flagship URA program that was established in 2007. Since then, it has continued to support faculty and staff of URA member institutions to conduct research at Fermilab.

Amitesh Singh: Facilitator for CETL Workshop

Amitesh Singh will be one of the facilitators for the Center for Excellence in Teaching and Learning (CETL) workshop on Active Learning. The workshop will be held on October 4 from 2:00 - 4:00 pm in Brevard 305. Register for the workshop using this link: <https://cetl.olemiss.edu/events/>



General Department News

- Dr. Nicholas MacDonald gave a Science Café talk, "Nature's Death Stars: A Discussion of Supermassive Black Holes, Relativistic Jets, and The Event Horizon Telescope", on September 19th at Heartbreak Coffee. Science Café is organized by Lorena Magaña Zertuche and Sumeet Kulkarni with Dr. Bennett as faculty advisor.
- Dr. Jennifer Meyer and Raymond Siedlecki received a Faculty Approaches to Critical Thinking (FACT) grant to support redesign of the department's Phys 223 labs. Dr. Bin Xiao and Thomas Jamerson received a FACT grant to redesign the Phys 107/108 courses. The FACT grants are offered by the Center for Excellence in Teaching and Learning for strengthening approaches to teaching for critical thinking.
- Dr. Likun Zhang has a visiting Fulbright Scholar, Dr. Joao Luis Ealo Cuello, from the School of Mechanical Engineering at Universidad del Valle in Colombia working with his group this year. Dr. Cuello's work will involve developing an acoustic levitation tool for manipulating small objects and evaluating its applicability for biophysical/mechanical characterization of samples.

Upcoming Events

- October 4: Dr. Cecille Labuda will be one of the panelists for the Oxford Film Festival screening of the movie Bombshell: The Hedy Lamar Story. The panel followed by the screening will be at 7:00 pm at Malco Commons.
- October 15: The PGSA picnic will be on October 15th at Sardis Lake. All students, faculty and staff are welcome to attend. The RSVP form is [here](#).
- The Spooky Physics Night demo show will be on October 20. Dr. Bennett is leading the organization of the show and everyone is more than welcome to volunteer and participate.
- SPS meets regularly on Thursdays at noon. PGSA Journal Club will be held at noon on Wednesdays this semester.