

LABORATORY UPDATE for ALUMNI



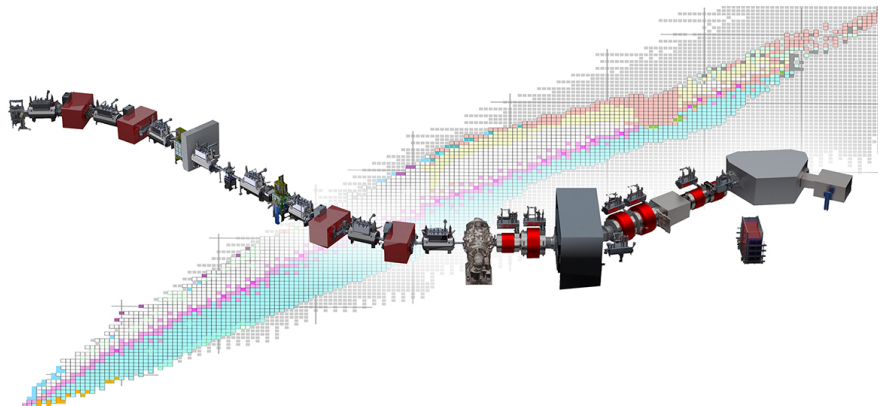
November
2023

U.S. Department of Energy Office of Science awards \$529M to continue forefront nuclear science research at FRIB



The U.S. Department of Energy Office of Science has awarded \$529 million over five years to operate FRIB as a DOE-SC user facility to enable unprecedented discovery opportunities envisioned by FRIB's user community, supporting the mission of the DOE-SC Office of Nuclear Physics. [Read more](#)

U.S. Department of Energy Office of Science awards \$115M for High Rigidity Spectrometer project at FRIB



The U.S. Department of Energy Office of Science has awarded \$115 million for the High Rigidity Spectrometer (HRS) project at FRIB. The HRS instrument will enable scientists to characterize the properties of isotopes that are created in rare-isotope reactions produced at about 50 percent of the speed of light. With

the ability to measure properties such as the mass, charge, and velocity of rare isotopes produced in those conditions, HRS will be a centerpiece experimental instrument of FRIB's fast-beam program that will substantially increase FRIB's scientific reach and productivity. [Read more](#)

New Long Range Plan for Nuclear Science recommends FRIB enhancements to forward the field



FRIB figures largely in the Nuclear Science Advisory Committee's (NSAC) newly released "A New Era of Discovery: The 2023 Long Range Plan for Nuclear Science." The new plan, released on 4 October, provides a roadmap for advancing the nation's nuclear science research programs over the next decade. It is the 8th long range plan published since 1979 by NSAC, a federally chartered advisory committee to the U.S. Department of Energy and National Science Foundation. FRIB hosted an update meeting on 6 October about the plan and its FRIB impacts, and nuclear scientists from across the United States participated 8 November in a Nuclear Physics Day on Capitol Hill to inform elected officials and their staff about the plan. For more information, visit NuclearScienceFuture.org for timely updates on the 2023 planning process. [Read more](#)

New joint French-U.S. laboratory to advance fundamental nuclear physics and astrophysics research being established at FRIB



The French research organization Centre National de la Recherche Scientifique (CNRS) signed an agreement with Michigan State University to establish at FRIB the International Research Laboratory on Nuclear Physics and Astrophysics (IRL NPA). CNRS has nearly 80 international research laboratories worldwide, and IRL NPA at FRIB is the first dedicated to nuclear physics and astrophysics. [Read more](#)

Video highlights FRIB's 2023 summer programs



This summer, 248 students and community members participated in outreach and education programs at FRIB. The programs offer attendees the opportunity to explore the world of science. [Watch video](#)

ALUMNI SPOTLIGHT



Mandie Gehring earned a PhD in nuclear chemistry from Michigan State University, and she was at the National Superconducting Cyclotron Laboratory from 2008-2013.

She is currently the deputy group leader for Intelligence and Space Research (ISR)-1, the Space Science and Applications group at Los Alamos National Laboratory. [Read more](#)

News

Below are some recent FRIB website articles. For more, visit the [FRIB website](#).

- [FRIB developing artificial intelligence tools to enhance discovery, technology, and training](#)
- [FRIB's Jaideep Singh receives Donald F. Koch Quality in Undergraduate Teaching Award](#)
- [Winners of 2023 FRIB Achievement Award for Early Career Researchers named](#)
- [FRIB's Kyle Godbey receives MSU Postdoctoral Excellence in Research Award](#)

- [2023 FRIB Theory Alliance Summer School focuses on practical applications of Bayesian statistics and machine learning for nuclear science](#)
 - [Global superconducting radio frequency community attends FRIB-hosted conference in Grand Rapids](#)
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In the News

FRIB science and its discovery opportunities—enabled through the support of the nuclear science community—were the focus of an interview/tour published in the *Detroit Free Press* and *USA Today*. Coverage of the article/tour included:

- [At this lab, the secrets of the atom — and the universe — are being discovered](#) (*USA Today* via Yahoo News)
- [Photo gallery: Inside the Facility for Rare Isotope Beams at Michigan State](#) (*Detroit Free Press*)

Check out additional recent FRIB news highlights below. For more, visit the [FRIB website](#).

- [MSU looks ahead to future of nuclear science](#) (WLNS)
 - [MSU, FRIB developing artificial intelligence tools to enhance discovery, technology and training](#) (ScienMag)
 - [Michigan State University awarded \\$529M for nuclear research](#) (WILX TV-10)
 - [New joint French-U.S. laboratory to advance fundamental nuclear physics and astrophysics research being established at the Facility for Rare Isotope Beams at Michigan State University](#) (ScienMag)
 - [Global superconducting radio frequency community attends FRIB-hosted conference](#) (ScienMag)
 - [World-leading rare isotope facility is online in Michigan](#) (Physics Today)
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Upcoming events

Below is a list of upcoming events. For more, visit the [FRIB website](#).

- 17 November - Advanced Studies Gateway: [Chamber Music Collage](#)
 - 26 November-1 December – APS Division of Nuclear Physics meeting – Waikoloa, Hawaii
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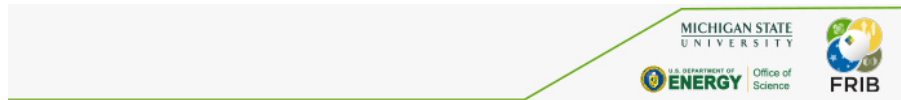
Update your information in FRIB Alumni Directory

The FRIB Laboratory has an [alumni directory form](#) to communicate with laboratory alumni and to track their career paths. Please take a couple of minutes to fill out or update the form by answering a few simple questions. This will ensure our records are accurate and build a more reliable network we hope

you find useful. Visit the online [alumni directory form](#) to enter and update information.

We want to hear from you

Send us your story ideas! Let us know what you are up to! We want to feature at least one story each issue about you—our alumni, so please email us story tips about you and/or your fellow alumni to alumni@frib.msu.edu. Tell us about discoveries, business ventures, partnerships, awards, and other professional developments, and we may feature them in a future issue. Also let us know if there are other types of laboratory updates you'd like to see in future alumni issues.



Michigan State University operates FRIB as a user facility for the U.S. Department of Energy Office of Science (DOE-SC), supporting the mission of the DOE-SC Office of Nuclear Physics.

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