



# FRIB ribbon-cutting 2 May

FRIB opened its doors with a ribbon-outling ceremony on 2 May. U.S. Secretary of Energy Jennifer M. Granholm and MSU President Samuel L. Stanley Jr., M.D., <u>ault the ribbon</u> to officially mark the start of FRIB's scientific mission. About 900 guests attended the ribbon-outling to celebrate FRIB opening for scientific research. FRIB was completed in January, ahead of schedule and on budget. FRIB's first scientific-user experiments started 9 May. <u>Read more about</u> the ribbon-outling event.

## First experiment concludes successfully

The first experiment at FRIB concluded successfully. Experiment spokespersons James "Mitch" Allmon Heather Crawford (LBNL), Ben Crider (Mississippi State University), Robert Grzywacz (UTK), and Vande (FSU) used the FRIB Decay Station initiator (FDSI) to study the beta-decay of calcium-48 fragments. Re h" Allmond (ORNL) ments Read more in FRIB's article and the ORNL article

#### NEWS CENTER

Program Advisory Committee update: FRIB anticipates a call for proposals in fall 2022 and an FRIB Program Advisory Committee (PCA) meeting in March 2023. An announcement with details will be made later this year. Contact FRIB Manager for User Relations JIII Berryman at <u>useroffice@thb.msu.edu</u> with questions.

with questions. Long Range Plan: A Nuclear Science Advisory Committee (NSAC) Long Range Planning process is expected to begin this summer. The <u>American</u> <u>Physical Society Division of Nuclear Physics</u> Executive Committee is organizing and running bown meetings to provide input to NSAC from the suclear physics community. The white papers from these town meetings should convey the open science questions and the tools used to answer the questions while training the next generation of scientists. FRIB is looking forward to working with the process. Contact FRIB Scientific Director Brad benefit at <u>Bernill'Effet msu eady</u> with questions. nerrill at <u>sherrill@frib.msu.edu</u> with que

Sheriil at sheriil@thbmsu.edu with questions. FRIB400 energy upgrade: The energy upgrade of the FRIB binar accelerator to 400 MeV/u for uranium (FRIB400) will double the reach of FRIB along the neutron dripline from Z=30 (zinc) to Z=60 (neodymium) into a region relevant for neutron-star crusts and to allow study of extreme, neutron-rich nuclei such as calcium-86. FRIB400 will expand the scientific impact of harvested isotopes by 10 limes. The FRIB science community laid out the scientific opportunities in the <u>FRIB400</u> while pager which was subsequently endorsed at following Low Energy Community Meetings. The energy upgrade will be orther discussed with the community in the context of the Long Range Plan. To get involved or to ask questions, contact FRIB Deputy Scientific Director Alexandra Gade at <u>gade@th mus adu</u>. questions, contact FRIB Deputy Scientific Di Alexandra Gade at gade@frib.msu.edu.

Operations Proposal review update: The U.S. Department of Energy Facilities and Project Management Division in the Office of Nuclear Physics conducted a panel review for the FRIB Physics conducted a panel review for the FRIE Operations Proposal 10-12 May. The purpose of the review was to evaluate the scientific and technica goals proposed to be accomplished at FRIB over the five-year period from January 2023 to January 2028 The review panel congratulated FRIB on achieving a 1 kW beam and providing secondary beam on target for the first experiment. The panel commended FRIB for working with the user community in the FRIB day-one science program. nmunity in deve engaging the users through the FRIB User Organization and FRIB Theory Alliance and clearl communicating the expected available beams, a well as holding proposal preparation workshop calculating all secondary beams for the propos orkshops and

NICE: High Rigidity Spectrometer (HRS) update: HRS will substantially increase FRIG's scientific reach and productivity in nuclear structure and nuclear astrophysics research, tests of fundamental symmetry, and applications of rate isotopes. At present the detailed design of HRS is ongoing. HRS will likely be completed whon FRIB has reached its maximum beam power, and the added capabilities of HRS will result in another jump in scientific reach of the facility. There are two upcoming reviews this year to move the project along.

w move the project along. Accelerator Traineship Advisory Panel meeting held 2 June: The Accelerator Traineship Advisory Panel held a meeting on 2 June. The focus was to review the Accelerator Science and Engineering Traineship (ASET) program at MSU and to provide recommendations to the FRIB Laboratory director. ATAP's key findings included that it believes the program is functioning well and is encouraged by the current experience of the students at the national labor. program i current e labs.

FRIB Users Organization update: The FRIB Users Organization (FRIBUO) has an update on its recent election, DC Day, the upcoming Low Energy Community Meeting, and its user-community survey. Read more

International research network welcomes new partners to expand science potential: In its quest to answer questions about the evolution and properties of cosmic matter and the origin of the world's chemical elements, the International Research Network for Nuclear Astrophysics (IRENA) is expanding to include three new crucial research partners. Read more

patners. Read more Nuclear Physics News features the Association for Research at University Nuclear Accelerators: The Nuclear Physics News has an article on the Association for Research at University Nuclear Accelerators (ARUNA). As part of its science mission, ARUNA produces a wealth of new tools, techniques, and people, all of which help to expand the reach of the field, including toward the scientific goals of FRIB. Read more Read more

For more FRIB news items, visit the FRIB website

### UPCOMING EVENTS

NSCL celebration set for 12 August: The National Superconducting Cyclotron Laboratory (NSCL) ran the first experiment in September 1982. The last experiment was run 25-31 May 2022. To celebrate the intervening 40 years of NSCL operation, a hybrid (in person and virtual) "Celebration of 40 Years of NSCL Science" meeting will be held on 12 August. The meeting will start with lunch and tours and include comments and presentations on the science and history of NSCL. Register for the event <u>online</u>.

## CONGRATULATIONS TO OUR COMMUNITY MEMBERS

Sofia Quaglioni earns 2021 Ernest Orlando Lawrence Award: A member of the FRIB Users Organization h named as a winner of the 2021 Ernest Orlando Lawrence Award: Sofia Quaglioni. Quaglioni is a physicist a leader in the Nuclear Data and Theory group at Lawrence Livermore National Laboratory (LLNL). <u>Read more</u> nd group

ers of FRIB Achievement Award for Early Career Researchers named: The FRIB Users Org Committee and the FRIB Theory Alliance Executive Board have announced the winners of the 20 and Award for Early Career Researchers: Any Lovel, Inc. Aslamos National Laboratory, and shawa, from the University of Notre Dame. <u>Read more</u> ory, and Ja

2022 FRIB Visiting Scholar Program for Experimental Science names award winner: Vandane State University is the award recipient for the 2022 FRIB Visiting Scholar Program for Experim tal Science. Read

Members of FRIB Users Organization named 2021 American Association for the Advance ment of Science Fello Is of FRO Deen's Organization named zoor A numerican Association for the Advantament of ocenter enough members of the FRIG user community have been anned 2021 Fellows of the American Association for the ement of Science (AAAS): Michael Annan Lisa, from Ohio State University, Filomena Nunes, from Michig niversity, and James Vary, from Iowa State University, **Read more** ate University and Jar

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### COMMUNITY ENGAGEMENT

