

HB2014

54th ICFA

Advanced Beam Dynamics

Workshop on High-Intensity,
High Brightness and
High Power Hadron Beams

East Lansing, MI

10-14 November 2014

An aerial photograph of the Michigan State University campus in East Lansing, Michigan. The image shows a dense cluster of university buildings, green spaces, and parking lots. A large white text overlay with a black outline reads "Welcome to Michigan State University". A scale bar at the bottom left indicates a distance of 1 mile. The text "2-01" is visible in the bottom right corner.

**Welcome to
Michigan State University**

1 mile

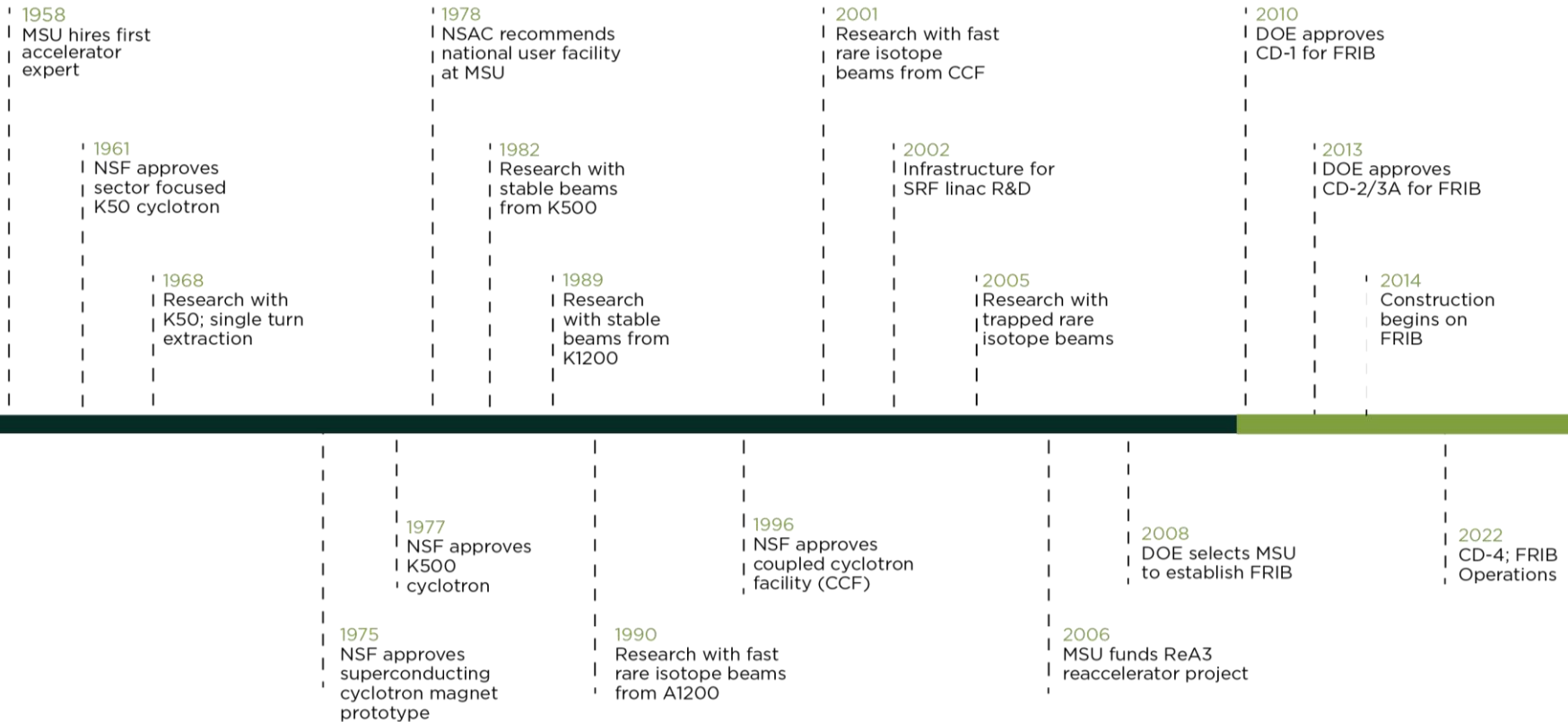
2-01

Michigan State University

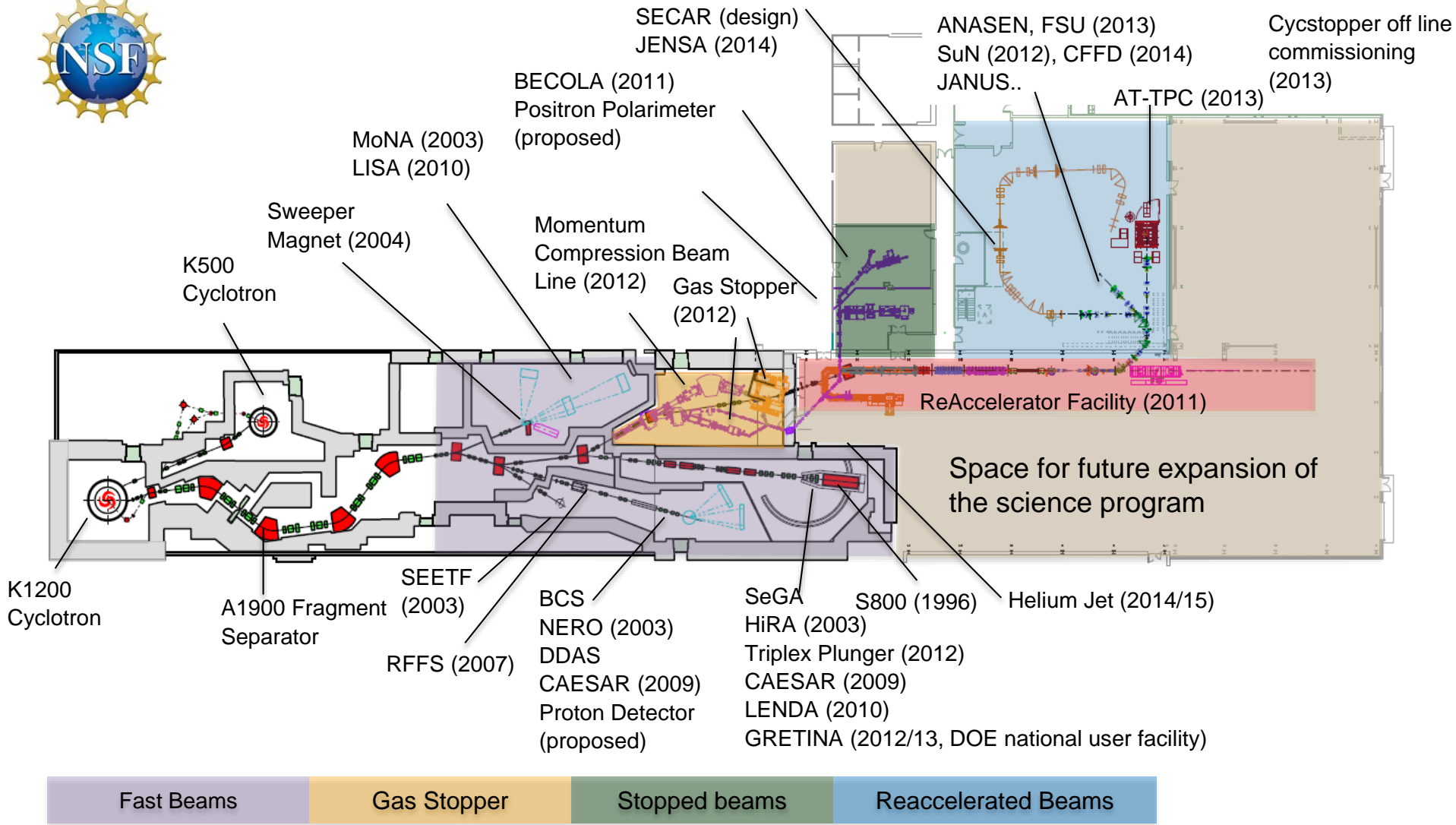
Public Research University established in 1855 | Elected Board of Trustees |
5,200 acres | 538 buildings | \$1.9B annual budget | 11,100 employees |
49,300 students



Accelerator-Based Nuclear Science at Michigan State University since 1960's



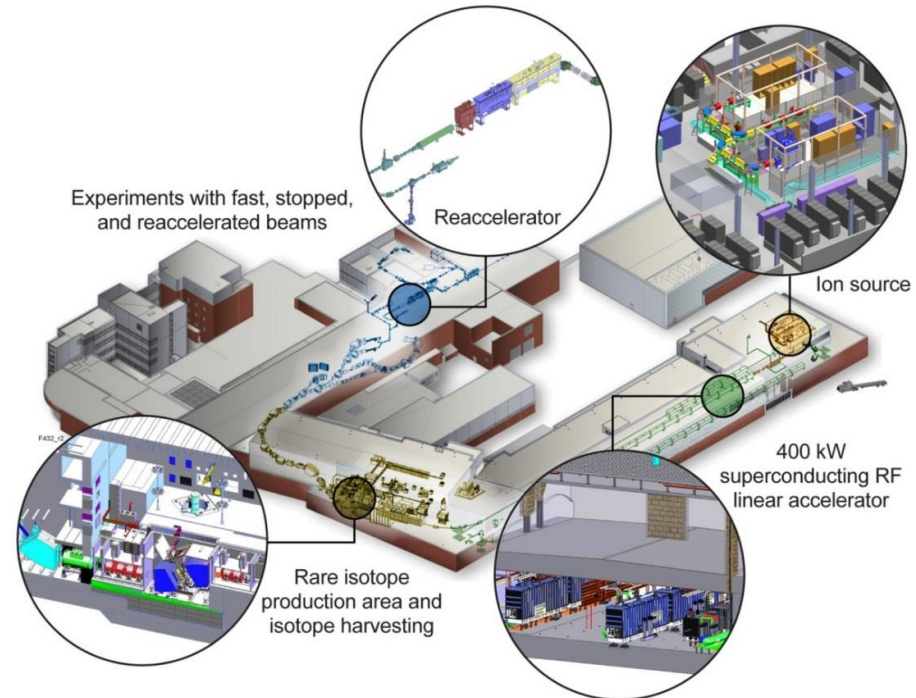
NSCL: NSF-Funded National User Facility for Rare Isotope Science until FRIB Complete



Tour on Friday (14 November)

Facility for Rare Isotope Beams (FRIB): A DOE-SC Scientific User Facility

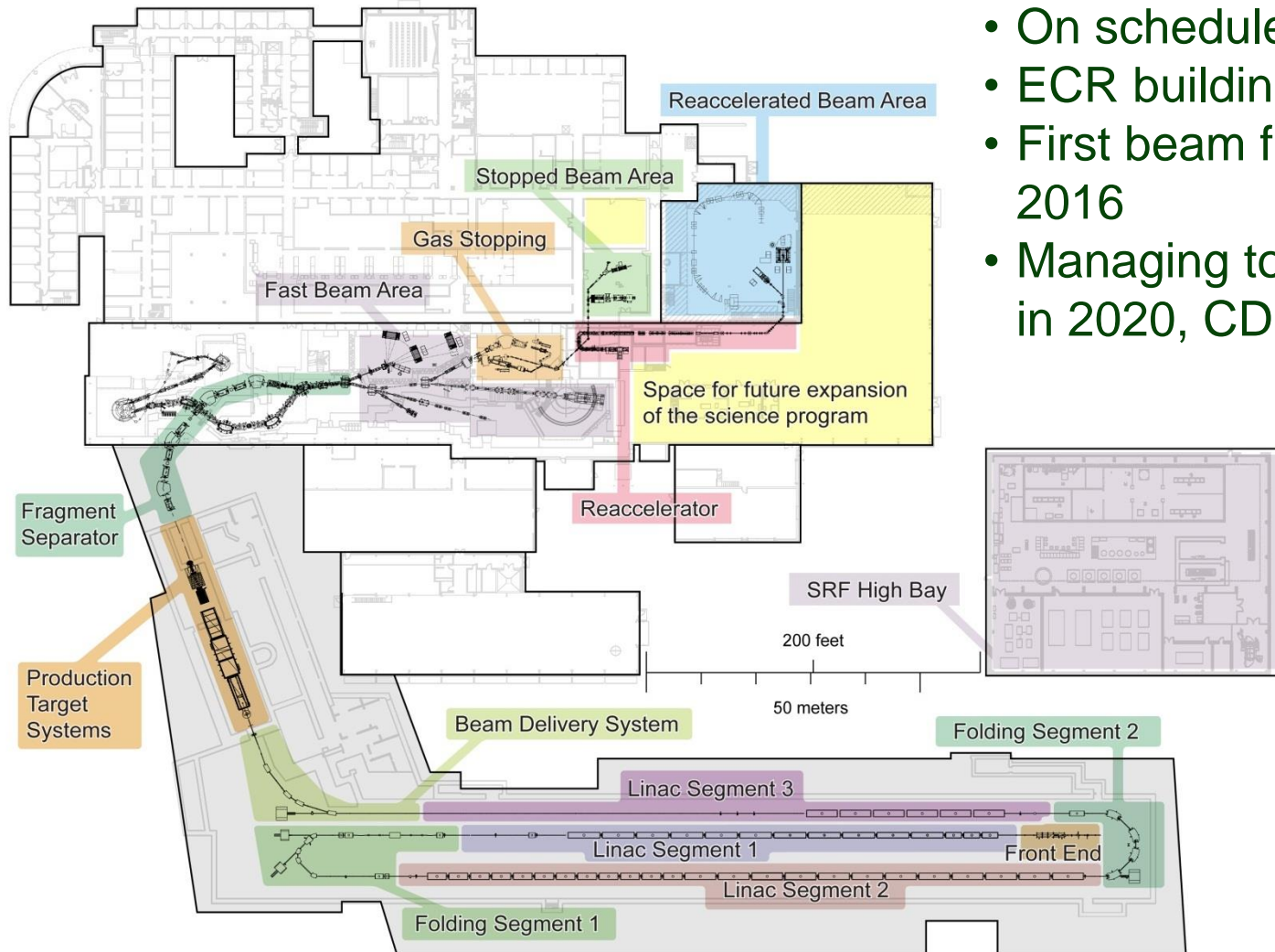
- Funded with financial assistance from DOE Office of Science (DOE-SC) with cost share and contributions and from Michigan State University (MSU)
- Supporting mission of Office of Nuclear Physics (SC-26) in DOE-SC
- MSU selected in 2008 after competitive announcement
- Total Project Cost \$730M
 - DOE share \$635.5M
 - MSU cost share \$94.5M
 - In addition to TPC MSU contributions \$212M



▪ Key features

- 400 kW beam power for all ions (5×10^{13} $^{238}\text{U}/\text{s}$)
- Separation of isotopes in-flight
- Fast, stopped, reaccelerated beams

FRIB Civil Construction Started in March, Technical Construction in September



- On schedule and budget
- ECR building ready in 2015
- First beam from ion source in 2016
- Managing to early completion in 2020, CD-4 in 2022

FRIB Civil Construction Nine Weeks Ahead of Schedule



FRIB construction site on 7 November 2014 – cameras at frib.msu.edu
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- Thank you to the *International Organizing Committee*
- Thank you to the *Local Organizing Committee*
- Regret that eleven registrants did not receive visas in time to participate in person
 - Will look into what we can do as an academic institution committed to open exchange of ideas with over 1,200 international scholars from 90 countries and 7,000 international students
- Have a productive meeting and a good time in East Lansing