



# *Support a Facility for Rare Isotope Beams*

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FRIB is a nuclear physics facility for which DOE is currently performing a site selection between Argonne and MSU.

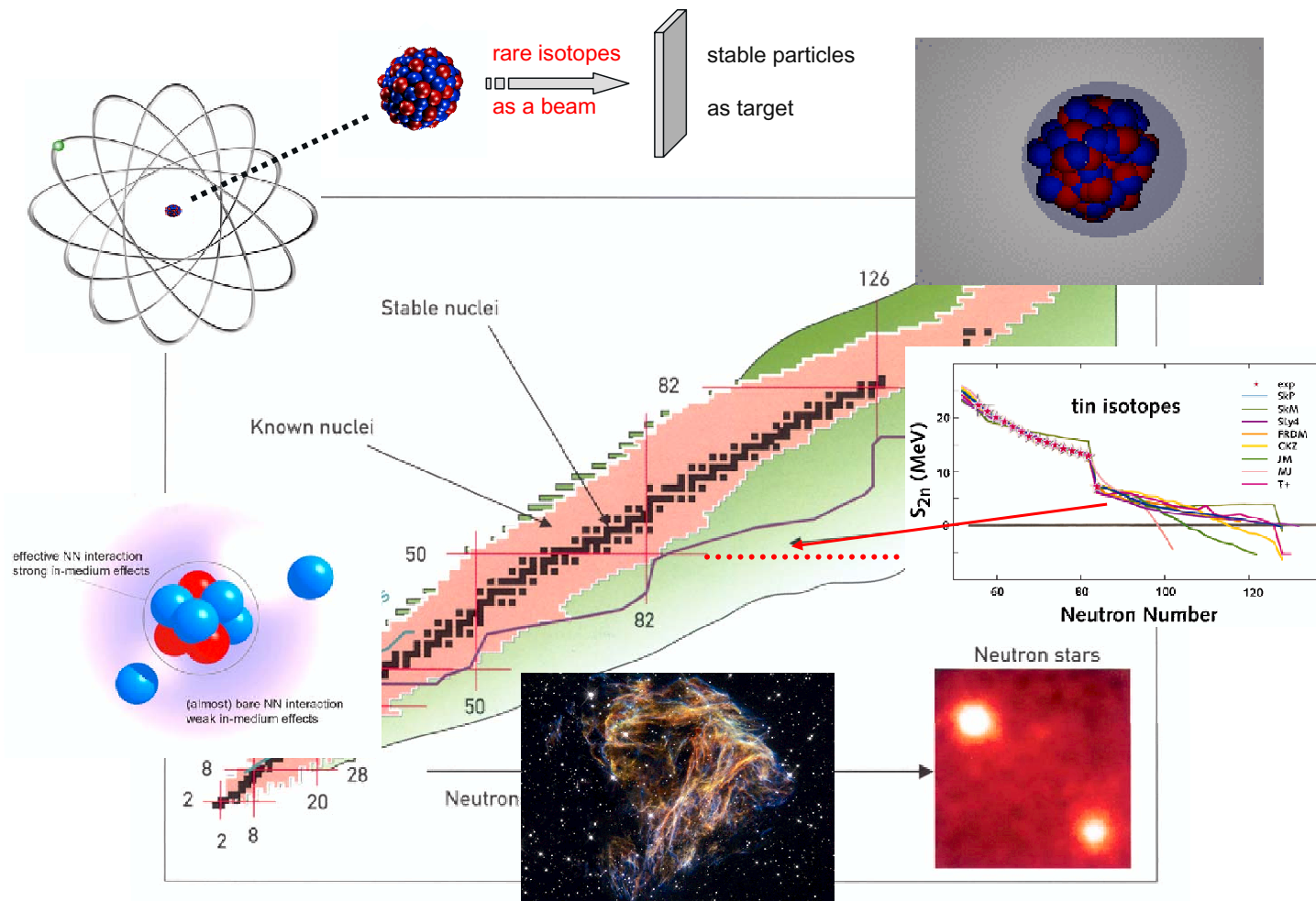
They are going ahead now.

I am putting together a letter from the high energy physics community — specifically theorists and experimentalists — to the President-elect, Congress, and DOE that expresses our strong support of this program.

I hope you will join me soon.



# The nuclear physics is interesting



Measuring elements involved with star evolution for the first time.

Looking for CP violation, EDMs, rare  $\beta$  decay

Searching for new medical diagnostic radiologicals

These are cool, but they are not my main interest.



# Why we should support this facility

- **Problem solving.** They are developing and building technology we need for both ILC and Project-X:
  - Some cavities used directly by project-X
  - Similar superconductor surface problems
  - Similar power distribution problems
  - ...
- **Infrastructure.** This will provide training and retention of the specialized technical and engineering staff required to design and build complicated accelerators.  
We will need these people for our next machine.
- **Good will.** In this difficult climate for science funding, we need to address the public and government with a united voice that promotes the importance of all physical sciences.  
Now is an actionable opportunity to build closer relationships with our sister sciences, and to move forward together.

345 MHz  $\beta=0.63$   
Triple-spoke

