

Joint Institute for Nuclear Astrophysics Center for the Evolution of Elements

Dr. Micha Kilburn

JINA-CEE Director of Outreach & Education



Who/Where?

Michigan State University

University of Notre Dame

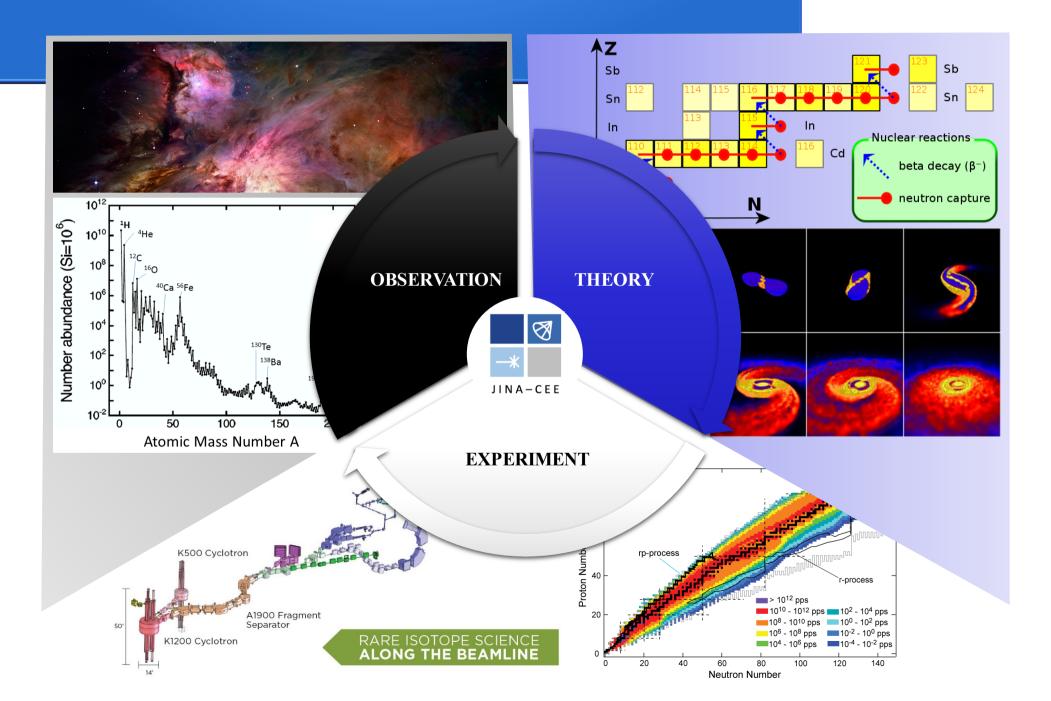
Arizona State University

University of Washington

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That Great Nuclear Science Laboratory in the Sky







Why?

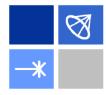
- Origin and fate of matter in our universe
 - "We are made of star stuff"
- Understanding the cosmos on the tera-scale while interpreting observations and events on the femto-scale
- Many open questions can now be answered
- Provide an intellectual center
- Collaborations, workshops, research programs, and educational initiatives



NSF Physics Frontier Center

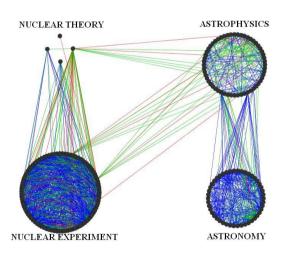
A word about your sponsor and research funding in the US





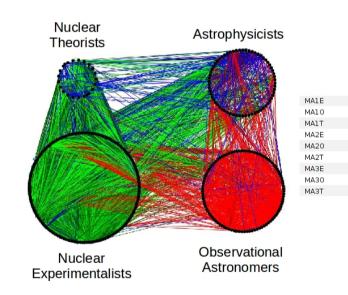
The JINA Web

Nuclear Theory



Nuclear Experiment

Astrophysics

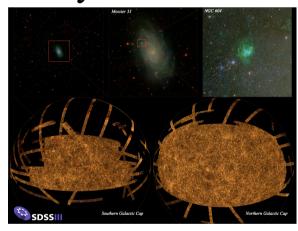


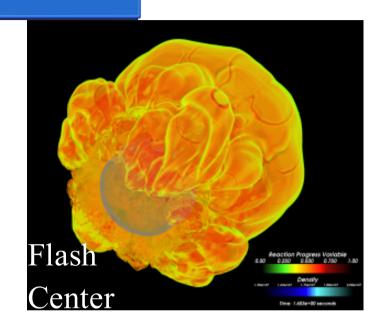
Astronomy



How Currently?

The Sloan Digital Sky Survey







St. George Recoil separator



How in the future?

Compact Accelerator System Performing Astrophysical Research

The CASPAR collaboration has been formed to design and built an underground accelerator laboratory, at the 4,850 feet mid-level campus in SURF. The low energy accelerator will support experiments that address long-standing questions in the field providing potentially transformational results about the inner structure and working of stars.



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JINA -CEE Outreach

- In Person
 - Summer Camps
 - After school programs
 - Library and Park programs
 - Science Festivals
- Website
 - Isotopolis
 - Guided Tutorials
 - Marble Nuclei
 - CNO Card Game
- Digital
 - YouTube seminars, music, videos, outreach examples
 - Twitter aimed at scientific audience
 - FB and Pinterest aimed at parents
 - Google Hangouts For virtual talks



JINA-CEE Education Pipeline

- MST -> PAN
- PAN-> Scout Badge, HSHSP
- PAN -> Undergraduate research
 - Conference Experience for Undergraduates
 - Workshops, schools, conferences for Grad students
 - Connections to jobs at all JINA institutions



Want more?

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