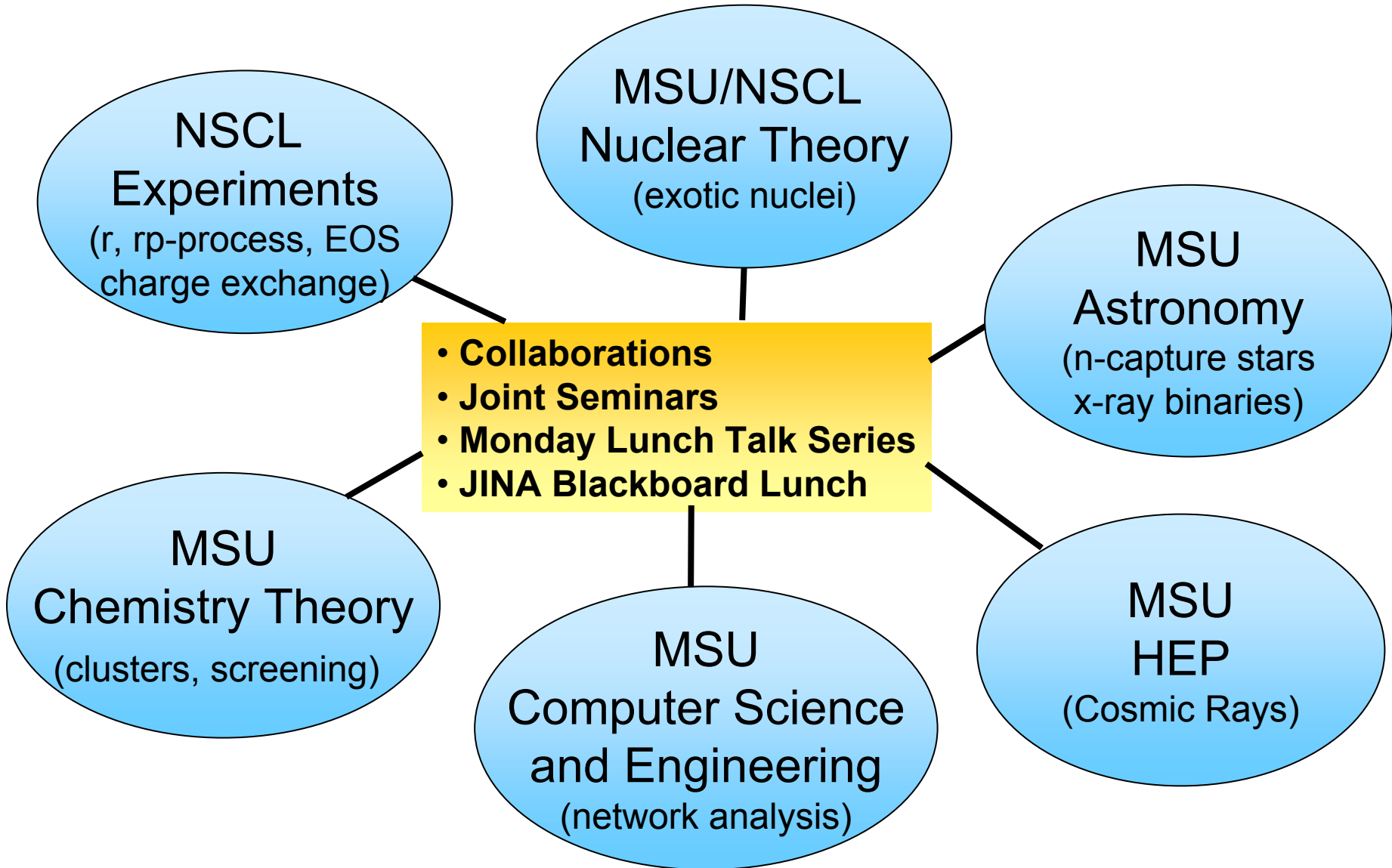


JINA @ MSU

NSCL



Dept. of Physics and Astronomy



Lunch Talks Series

Nov 29: [Wolfgang Bauer](#): Supernova modeling via Kinetic Theory

Jan 26: [Jack Baldwin](#), Future Directions of Astronomy at MSU

Feb 9 : [Remco Zegers](#), Charge Exchange Reactions and Exploding Stars

Feb 23: [Wolfgang Rapp](#), The origin of the proton rich rare isotopes in nature

Mar 8 : [Carlos Bertulani](#), Reactions in stars

Mar 22: [Bob Stein](#), Solar Convection

Apr 5 : [Bill Lynch](#), EOS in the laboratory and in neutron stars

Apr 19: [Ed Brown](#), Lighting the Standard Candle: Type Ia supernovae

- Local interest in JINA is high (typical attendance ~50)
- Lots of research overlap
- New local collaborations

Other MSU faculty collaborating with JINA

(not on the Lunch Talk List and not a senior investigator on proposal)

- [G. Bollen](#) (AP & NSCL, Nuclear experiment)
- [A. Brown](#) (PA & NSCL, Nuclear theory)
- [J. Linnemann](#) (PA, HEP)
- [P. Mantica](#) (Chem & NSCL, Nuclear experiment)
- [F. Nunes](#) (PA & NSCL, Nuclear theory)
- [S. Zepf](#) (PA, Astronomy)
- [P. Piecuch](#) (Chem, Theory)
- [A. Esfahanian](#) (Computer Science and Engineering, Theory)

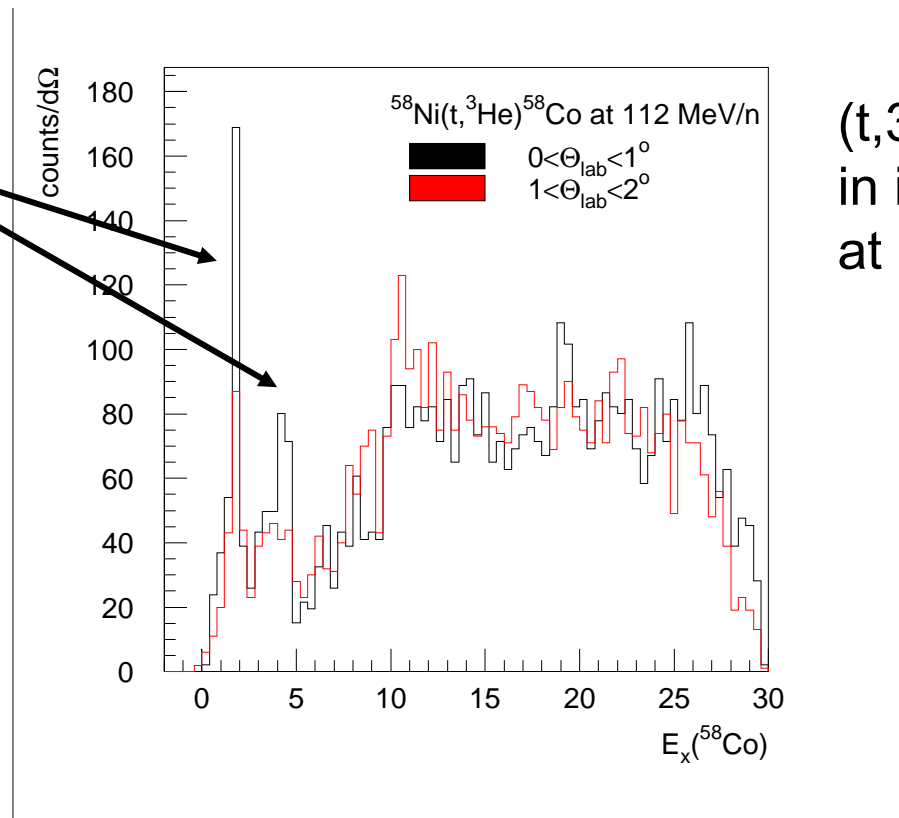
More expressed interest ...

Example for new JINA collaboration at MSU:

New faculty: Remco Zegers

Charge exchange reaction measurements to extract weak interaction strength for supernovae and neutron star crusts

GT strength



(t,3He) on ^{58}Ni
in inverse kinematics
at NSCL

NSCL support for JINA

Large common interest in local, strong, nuclear astrophysics program
→ Strong support

NSCL provides 1/3 of MSU cost share

NSCL provides beam time for local experimental program

Indirect NSCL support:

- Grant administration
- Secretarial
- Rooms also for visitors
- Computing facilities and support
- Outreach administration
- Human resource management

Faculty development in nuclear astrophysics at MSU after proposal of JINA

- 2003 Hire of Remco Zegers, Nuclear Experimentalist, charge exchange reactions
- 2003 Hire of Kris Starosta, Nuclear Experimentalist strong interest in nuclear astrophysics
- 2003 Hire of Filomena Nunes Nuclear with strong interest in nuclear astrophysics
- 2004 Hire Ed Brown
Theoretical Nuclear Astrophysicist connecting NSCL and Astronomy group.
- CA Faculty position to be filled