

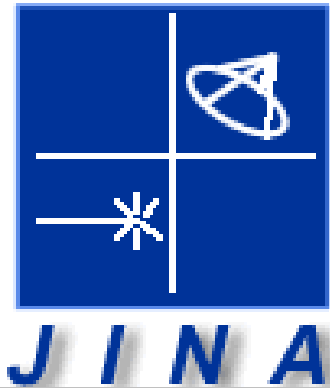


JINA

collaborations & conferences

Goal of JINA is to initiate a broad spectrum of collaboration to maximize expertise and input to address specific research goals addressed by MRC1 and MRC2!

Goal of JINA is to develop a series of goal oriented conference and workshops within the framework of MRC1 and MRC2!



JINA - Collaborations in 2003

Reflects historical evolution from independent research groups towards joint JINA efforts!

- ❑ ^{68}Se mass measurements at ATLAS/ANL
rp-process in type I XRBs; ND-ANL collaboration
- ❑ ^{78}Ni β -decay & lifetime measurement at NSCL/MSU
r-process in type II SN ; MSU-ND-Mainz collaboration
- ❑ $^{112}\text{Cd}(\alpha,\gamma)$ measurement at NSL/ND
p-process in type II SN; ND-ATOMKI collaboration
- ❑ Type I XRB multi-zone nucleosynthesis simulation
UC-Santa Cruz-MSU-ND collaboration
- ❑ e-capture and pycnonuclear reaction rates
NSCL/MSU – ND collaboration



2004 Emerging JINA MRC1 collaborations

charge exchange and weak strengths for supernovae
Osaka, Japan, KVI, Netherlands; & MSU

r-process reaction & observational studies
Mainz, Germany; Chicago & MSU & ND & **SEGUE**

p-Process Simulations
ATOMKI, Hungary; Kocaeli, Turkey, FZ Karlsruhe, Germany; MSU & ND

Carbon production in AGB stars
LANL & MSU

Chemical evolution
Minnesota & ND

SN Collapse simulation
Arizona, UCSC, LANL; & ND

Triple alpha rate
Western Michigan & MSU

s-process nucleosynthesis and AGB stars
FZ Karlsruhe, Germany; LANL; Cambridge, UK; Torino, Italy; & ND



2004 Emerging JINA MRC2 collaborations

XRB simulations
UCSB; UCSC; MSU & ND

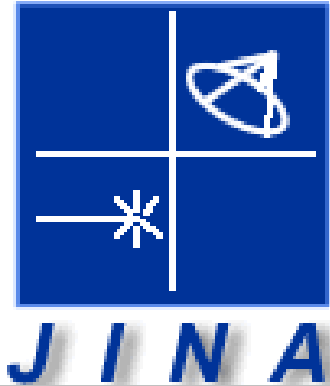
rp-Process Reaction Studies
Osaka, Japan; KVI, Netherlands; ND & MSU

Electron Capture in NS Crust
Aarhus, Danmark, Barcelona, Spain; & MSU

Pycnonuclear Reaction Models
Sao Paulo, Brazil; ININ Mexico; TRIUMF, Canada; & ND

Neutron Star Crust Cooling
San Diego; IA Potsdam, Germany; & ND

Nova Burning
Barcelona, Spain; UNC; Chicago & ND



JINA conferences & workshops

The r-Process – New Opportunities

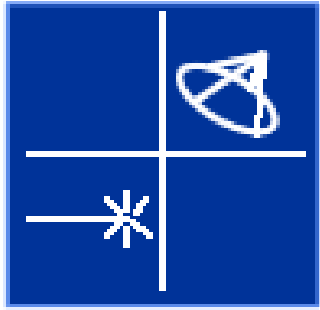
Oct. 6-8, 2002; Gull Lake, Michigan
(Organizers: JINA-NSCL-MSU)

The Nuclear Physics Of Core Collapse Supernovae

May 26 - June 8, 2003; Institute of Physics, Aspen, Colorado
(organizers: JINA - SciDAC U.Arizona)

Underground Accelerator for Nuclear Astrophysics

Oct. 27-28, 2003; Marriott University Park Hotel, Tucson, AZ
(Organizers: JINA – INT – LBNL)



The Nuclear Physics Of Core Collapse Supernovae

May 26 - June 8, 2003; Institute of Physics, Aspen, Colorado



New Experience;
Black Board Teaching

The Joint Institute for Nuclear Astrophysics



2004 workshops

[First Argonne/MSU/INT RIA Workshop](#)

January 8-10, 2004 ; INT, Seattle, Washington
(organizers: INT-ANL-MSU-JINA)

[Nuclear Physics and Astrophysics of Accreting Neutron Stars](#)

April 23-24, 2004; ITP, Santa Barbara, California
(organizers: JINA-ITP)

[Advances and Challenges in Nuclear Astrophysics](#)

May 24-28, 2004; ECT Trento, Italy
(organizers: JINA-LLN-ECT)

[The 7th Torino Workshop on Nucleosynthesis in AGB Stars](#)

August 2-6, 2004; Cambridge, UK
(organizers: JINA-Torino, Cambridge)

[Chemical Enrichment of the Early Universe](#)

August 9-13, 2004; Santa Fe, New Mexico
(organizers: LANL-JINA)



Topic oriented training

Intensive 1-2 week training on special subjects with lectures, exercises, homework & and tests:

[Workshop on Charge-exchange Reactions](#)

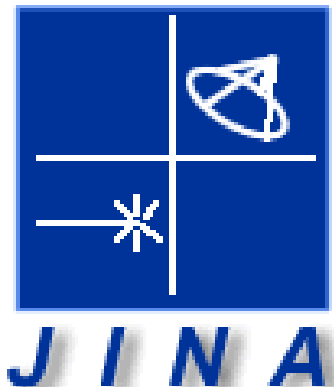
May 31 - June 4, 2004, NSCL East Lansing, Michigan
(organizers: NSCL-JINA)

[Workshop on R-Matrix Theory and Applications](#)

October 2004, Notre Dame, Indiana
(organizers: NSL-JINA)

Web-based course development:

<http://www.jinaweb.org/html/seminars.html>



Plans and Questions

- Strengthen the links within collaborations by postdoc & student exchange
- Strengthen the role of working group & collaboration meetings?
- Cut back on involvement in large conferences?
- Further steps towards special schools and training courses?