



The Joint Institute for Nuclear Astrophysics

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Students/Educators

For Visitors

Workshops

JINA DUSEL Group

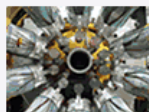
JINA RIA Group

SDSS-II at JINA



Site Visit

Quick Links



JINA Research Highlights



Outreach Gallery

News

NEW JINA launches its 2nd Virtual Journal - the JINA SEGUE VJ is now on-line! Featuring articles of interest to the SDSS-II / SEGUE community.

New RIA Brochure: "The Science of the Rare Isotope Accelerator (RIA) - A Brochure from the RIA Users Community" **Download here!**

See science nuggets for latest highlights from JINA research. **Click here!**
See JINA thesis work examples! **Here!**

Announcement: JINA Outreach receives a \$10K community foundation matching grant to do a summer science camp for middle school kids at ND this summer!

The National Research Council (NRC) was asked to review the importance to the nation of the science agenda for the Rare Isotope Accelerator. The President of the National Academies and NRC Chair, Ralph Cicerone, has formed the Rare Isotope Science Assessment Committee (RISAC) of the National Research Council and has selected and approved the committee members. **Read More**

Events

The workshop on "The First Stars and Evolution of the Early Universe" will be organized in the Institute for Nuclear Theory, Seattle, USA during June 19 - July 21, 2006. **Information**

A NIC-IX Satellite Workshop in Collaboration with JINA on Compiled Data Requirements for Modeling in Nuclear Astrophysics will occur in Basel University, Switzerland on June 23-24(25), 2006. **More Info**

JINA will co-sponsor the "In Heaven and on Earth 2006" Workshop on EOS at McGill, Montreal, Canada, from July 5-7, 2006. **More details**

- Past Events:

▶ The 3rd ANL / MSU / INT / JINA RIA Theory Workshop was held in the Physics Division at Argonne National Laboratory during the period April 4 -7, 2006. **Program / Talks**

▶ An informal two day JINA workshop on Massive Stellar Progenitors "The Final Days of Burning" was held from March 9 - 10, 2006 in Santa Barbara, CA. **View talks**

JINA's Summer Science Programs 2006

◆ PAN @ MSU (July 24 - Aug. 4)
HS/MS teachers & HS students

◆ PIXE-PAN @ ND (June 12 - 23)
HS teachers & HS students

◆ Sensing Our World @ ND
(June 26 - 30)
Middle school students

◆ ART to SCIENCE (July 10 - 15)
at St. Patrick's Park, SB, IN
2nd & 3rd grade students

◆ REU Programs Summer 2006



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24/February/06

JINA – Virtual Journal of Nuclear Astrophysics, 28 April 2006.

Volume 4, Issue 17 (76 articles)

Atomic data and spectral line intensities for Ar XI

a08 E. Landi and A.K. Bhatia

Atomic Data and Nuclear Data Tables - Volume 92 Issue 3

[SummaryPlus](#) | [Full Text + Links](#) | [PDF \(435 K\)](#)

An Empirical Calibration of the Mixing-Length Parameter α

a06,b04 Francesco R. Ferraro, Elena Valenti, Oscar Straniero, and Livia Origlia

The Astrophysical Journal - Volume 642, Issue 1

[ABSTRACT](#) | [FULL TEXT](#) | [PDF \(265 kB\)](#) | [PS](#)

Variations in D/H and D/O from New *Far Ultraviolet Spectroscopic Explorer* Observations

a05,a03,b01 Cristina M. Oliveira, H. Warren Moos, Pierre Chayer, and Jeffrey W. Kruk

The Astrophysical Journal - Volume 642, Issue 1

[ABSTRACT](#) | [FULL TEXT](#) | [PDF \(1075 kB\)](#) | [PS](#)

High-Redshift Gamma-Ray Bursts from Population III Progenitors

a06,b02,b09 Volker Bromm and Abraham Loeb

The Astrophysical Journal - Volume 642, Issue 1

[ABSTRACT](#) | [FULL TEXT](#) | [PDF \(203 kB\)](#) | [PS](#)

***r*-Process Nucleosynthesis in Magnetohydrodynamic Jet Explosions of Core-Collapse Supernovae**

a06,b08,c03 Sunao Nishimura, Kei Kotake, Masa-aki Hashimoto, Shoichi Yamada, Nobuya Nishimura, Shinichiro Fujimoto, and Katsuhiko Sato

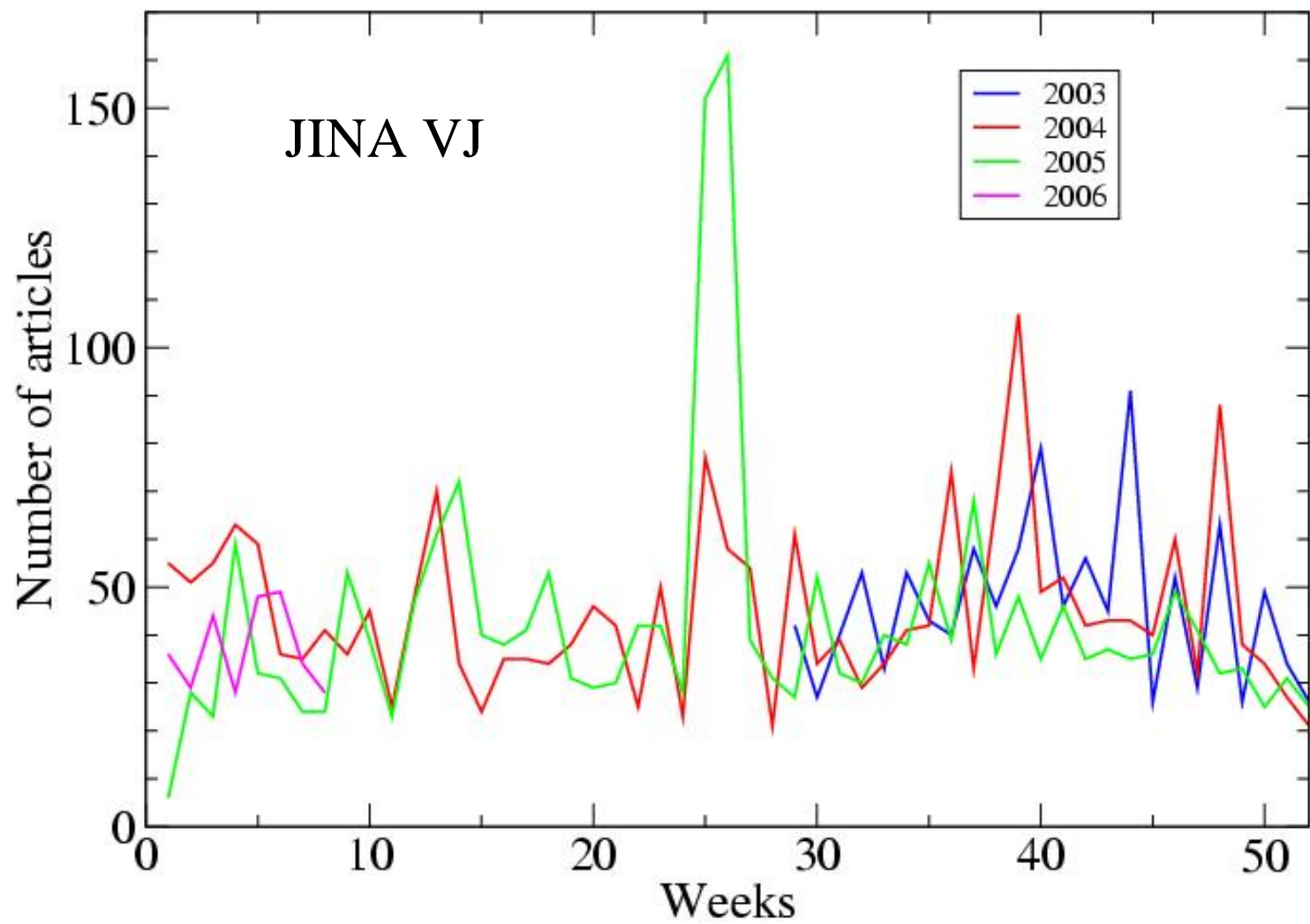
The Astrophysical Journal - Volume 642, Issue 1

[ABSTRACT](#) | [FULL TEXT WITH ENHANCEMENTS](#) | [PDF \(1134 kB\)](#) | [PS](#)

Source Journals

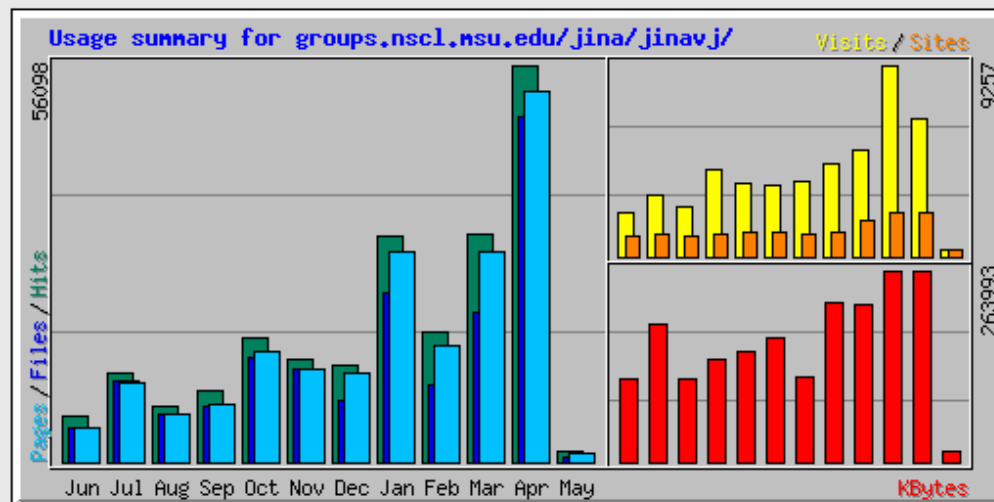
- American Journal of Physics
- Annual Reviews of Astronomy and Astrophysics
- Annual Reviews of Nuclear and Particle Science
- Atomic Data and Nuclear Data Tables
- [arXiv.org](http://arxiv.org)
 - Astrophysics
 - Nuclear Theory
 - Nuclear Experiment
- Astronomical Journal
- Astronomy and Astrophysics
- Astronomy and Astrophysics Review
- Astronomy Letters
- Astronomy Reports
- [Astroparticle Physics](http://www.aip.de)
- The Astrophysical Journal
- The Astrophysical Journal Letters
- The Astrophysical Journal Supplement
- The European Physical Journal A
- JETP Letters
- Journal of Physics G
- Monthly Notices of the Royal Astronomical Society
- Nature
- Nature--Physics
- New Astronomy
- New Astronomy Reviews
- Nuclear Instruments and Methods in Physics Research Section A
- Nuclear Physics A
- Nuclear Physics B
- Physics Letters B
- Physics of Atomic Nuclei
- Physics of Particles and Nuclei
- Physics Reports
- Physics Review C
- Physics Review D
- Physical Review Letters
- Progress in Particle and Nuclear Physics
- Publications of the Astronomical Society of Australia
- Review of Modern Physics
- Reviews in Modern Astronomy
- Science

Articles' sources for VJ since Jan 9 2005 (84 VJ Issues)			
	Issues Reviewed	Articles Selected	Articles/Issue
AmJP	19	8	0.4
Annual Review of Astronomy and Astrophysics	1	4	4.0
Annual Review of Nuclear and Particle Science	1	4	4.0
Atomic Data and Nuclear Data Tables	3	3	1.0
arxiv.org - Astrophysics	84	1711	20.4
arxiv.org - Nuclear Experiment	84	68	0.8
arxiv.org - Nuclear Theory	84	157	1.9
Astronomy and Astrophysics	77	224	2.9
Astronomy and Astrophysics Review	3	0	0.0
Astronomy Letters	20	23	1.2
Astronomy Reports	20	22	1.1
Astroparticle Physics	15	23	1.5
ApJ	59	311	5.3
ApJL	60	131	2.2
ApJSupp	20	13	0.7
EPJA	17	12	0.7
JETP	2	0	0.0
JETP Letters	39	8	0.2
JPG	19	15	0.8
Monthly Notices of the Royal Astronomical Society	58	127	2.2
Nature	84	70	0.8
New Astronomy	13	2	0.2
New Astronomy Reviews	16	47	2.9
Nuclear Instruments and Methods A	89	39	0.4
NPA	68	254	3.7
NPB	127	4	0.03
PLB	162	47	0.3
Physics of Atomic Nuclei	19	20	1.1
Physics of Particles and Nuclei	10	2	0.2
Physics Report	128	11	0.1
PRC	20	155	7.8
PRD	36	58	1.6
PRL	82	69	0.8
Progress in Particle and Nuclear Physics	7	7	1.0
Publications of the Astronomical Society of Australia	5	8	1.6
RMP	5	7	1.4
Reviews in Modern Astronomy	0	0	0.0
Science	84	72	0.9



VJ WWW Statistics

[WWW](#)



Summary by Month

Month	Daily Avg				Monthly Totals					
	Hits	Files	Pages	Visits	Sites	KBytes	Visits	Pages	Files	Hits
May 2006	499	192	421	99	288	15635	297	1265	578	1498
Apr 2006	1869	1621	1741	222	2104	263993	6688	52257	48652	56098
Mar 2006	1037	680	958	298	2165	262138	9257	29707	21109	32163
Feb 2006	656	390	584	183	1744	216682	5126	16358	10930	18376
Jan 2006	1030	770	962	144	1145	218720	4484	29828	23895	31930
Dec 2005	442	284	404	118	1089	116583	3661	12548	8833	13705
Nov 2005	485	436	435	115	1178	170701	3467	13058	13084	14573
Oct 2005	566	481	504	115	1171	152438	3567	15648	14916	17572
Sep 2005	337	265	276	141	1120	140387	4250	8281	7972	10132
Aug 2005	254	218	217	76	1034	113724	2384	6739	6759	7889
Jul 2005	402	365	358	95	1115	190984	2954	11122	11338	12491
Jun 2005	212	164	161	71	1039	114301	2137	4855	4935	6368
Totals						1976286	48272	201666	173001	222795



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Search by category:

Data or Theory

- Nuclear - EXPT
- Nuclear/Particle - THEORY
- S-factors, Reaction Rates, masses
- Observation
- Observational data analysis
- Abundances
- Astrophysics Theory/Model
- Cosmo Chronology
- Experimental equipment
- Codes, algorithms

Site

- Big Bang/Cosmology
- First stars
- The Sun
- Evolving stars
- AGB stars
- White dwarfs
- Core Collapse SN
- Gamma Ray Bursters
- Neutron/Compact Stars
- Black Holes
- Novae
- x-ray binaries
- Type Ia SN
- Neutron Star Mergers
- Milky Way Galaxy
- Other Galaxies
- Dwarf Galaxies
- Globular Clusters

Process/Properties

- Hydrogen burning
- s*-Process
- r*-Process
- p*-Process
- Neutrino cross sections, Processes
- rp*-Process
- e-capture, beta decay, B(GT), B(L=1)
- Gamma ray emission
- Gravitational Waves
- Cosmic rays
- Meteoritic grains
- Chemical evolution
- Galactic Evolution/Structure
- Rotation
- Magnetic fields
- Equation of state

General

- Reviews
- Popular audience

Today list of available journals is

Last time seen	Journal
May 1, 2006, 9:15 am	Astroparticle Physics.php
May 1, 2006, 10:43 am	Astronomical Journal.php
May 1, 2006, 10:55 am	arXiv Astrophysics.php
May 1, 2006, 10:47 am	arXiv Nuclear Experiment.php
May 1, 2006, 10:47 am	arXiv Nuclear Theory.php
May 1, 2006, 9:18 am	Astronomy and Astrophysics.php
May 1, 2006, 9:18 am	Nuclear Instruments.php
May 1, 2006, 9:20 am	The Astrophysical Journal.php
May 1, 2006, 9:20 am	Physics Reports.php
May 1, 2006, 9:20 am	Physics Letters B.php
May 1, 2006, 9:20 am	Physics of Atomic Nuclei.php
May 1, 2006, 9:16 am	The European Physical Journal A.php
May 1, 2006, 9:22 am	Monthly Notices of the Royal Astronomical Society.php
May 1, 2006, 9:23 am	Science.php
May 1, 2006, 10:44 am	Atomic Data and Nuclear Data Tables.php
May 1, 2006, 10:44 am	Physical Review Letters.php
May 1, 2006, 10:45 am	Publications of the Astronomical Society of Japan.php
May 1, 2006, 10:47 am	Nature.php

Other editors (e.g. Beers for VJ) have their own login

The European Physical Journal A

Frontmatter

Zs. Fülöp, R. C. Johnson and S. Kubono
The European Physical Journal A, Supplement 1
[Abstract](#) | [PDF file \(142 KB\)](#)

Foreword

Zs. Fülöp, R. C. Johnson and S. Kubono
The European Physical Journal A, Supplement 1
[Abstract](#) | [PDF file \(31.2 KB\)](#)

b01.d01.d02 Big bang nucleosynthesis in the new cosmology

B. D. Fields
The European Physical Journal A, Supplement 1
[Abstract](#) | [PDF file \(380 KB\)](#)

a02.b03.c05 Salty neutrinos from the Sun - Results from the salt phase of the Sudbury Neutrino Observatory

S. J. M. Peeters
The European Physical Journal A, Supplement 1
[Abstract](#) | [PDF file \(246 KB\)](#)

Prospects in double beta decay searches

S. Pirro
The European Physical Journal A, Supplement 1
[Abstract](#) | [PDF file \(296 KB\)](#)

Search for rare processes with DAMA/LXe experiment at Gran Sasso

R. Bernabei, P. Belli, F. Montecchia, F. Nozzoli, F. Cappella, A. Incicchitti, D. Prosperi, R. Cerulli, C. J. Dai, V. Yu. Denisov and V. I. Tretyak
The European Physical Journal A, Supplement 1
[Abstract](#) | [PDF file \(216 KB\)](#)

a06.a09.b08.c05 On the importance of low-energy beta beams for supernova neutrino physics

N. Jachowicz and G. C. McLaughlin
The European Physical Journal A, Supplement 1
[Abstract](#) | [PDF file \(200 KB\)](#)

a02.b13.c15 Neutrino-nucleon scattering rates in protoneutron stars and nuclear correlations in the spin $S = 1$ channel

L. Mornas
The European Physical Journal A, Supplement 1



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JINA – Segue Virtual Journal, 28 April 2006.

Volume 1, Issue 14 (49 articles)

The Metallicity of the Old Open Cluster NGC 6791

a05,a04,b15 Raffaele Gratton, Angela Bragaglia, Eugenio Carretta, and Monica Tosi

The Astrophysical Journal - Volume 642, Issue 1

[ABSTRACT](#) | [FULL TEXT](#) | [PDF](#) (204 kB) | [PS](#)

Explosive Nucleosynthesis from GRB and Hypernova Progenitors: Direct Collapse versus Fallback

a06,a04 Christopher L. Fryer, Patrick A. Young, Aimee L. Hungerford

ArXiv - Astrophysics

astro-ph/0604471 [[abs](#), [ps](#), [pdf](#), [other](#)] :

LP 400-22, A very low-mass and high-velocity white dwarf

a05,a01,b18 Adela Kawka, Stephane Vennes, Terry D. Oswalt, J. Allyn Smith, Nicole M. Silvestri

ArXiv - Astrophysics

astro-ph/0604470 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Astronomy: Trouble at first light

d02 Piero Madau

ArXiv - Astrophysics

astro-ph/0604448 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Implications of WMAP Three Year Data for Reionization

a06,b02 Marcelo A. Alvarez, Paul R. Shapiro, Kyungjin Ahn, Ilian T. Iliev

ArXiv - Astrophysics

astro-ph/0604447 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Stellar populations of early-type galaxies in different environments I. Line-strength indices

a06,a08 P.Sanchez-Blazquez, J.Gorgas, N.Cardiell, J.Gonzalez

ArXiv - Astrophysics

astro-ph/0604565 [[abs](#), [ps](#), [pdf](#), [other](#)] :

Formation of Galactic Systems in Light of the Magnesium Abundance in Field Stars: The Thin Disk