

ANNOUNCEMENT
JINA-CEE INTERNATIONAL SYMPOSIUM ON
NEUTRON STARS IN THE MULTI-MESSENGER ERA:
PROSPECTS AND CHALLENGES

May 23 - May 27, 2016

Ohio University, Athens, Ohio, USA

From their birth to old age, neutron stars emit multi-wavelength photons, neutrinos, and gravitational waves. Monitoring these messengers through space- and ground-based observatories has revealed the extreme conditions of density, temperature and magnetic fields encountered in the evolutions of neutron stars. The past decade has seen tremendous growth in our knowledge owing to (i) the discovery of many new millisecond pulsars by NASA's Fermi gamma-ray observatory, (ii) new radio observations of millisecond pulsars yielding precision mass measurements, (iii) X-ray timing and spectral measurements of accreting and quiescent neutron stars with Chandra, XMM-Newton and NuSTAR observatories, and (iv) extensive archival mining of timing and spectral measurements made with RXTE to search for global pulsation modes. Ground-based efforts to detect the gravitational waves from in-spiraling neutron stars (and/or black holes) are progressing, and it is anticipated that the AdvancedLIGO detectors may detect the first in-spirals within the next few years. In addition, several new observatories are expected to be operational in the coming decade, including NASA's Neutron Star Interior Composition ExploreR (NICER), and India's ASTROSAT. Beyond that time-frame ESA's Large Observatory for X-ray Timing (LOFT) would provide a huge leap in fast X-ray timing and spectroscopic capabilities. Should a core-collapse supernova occur close by, several neutrino detectors on Earth are well poised to detect thousands of neutrinos which will revolutionize our understanding of neutrino properties, and their role in nucleosynthesis. Concomitant progress being made with analyses of data on terrestrial nuclei, and the promise offered by planned rare-isotope accelerator facilities around the world to provide data on highly neutron-rich nuclei will be invaluable to neutron-star studies.

This international symposium aims to bring theorists and observers together to assess the current state of knowledge, and to identify areas in which more theoretical work is needed to enable interpretation and extraction of information from observations. Additional goals are to inform observers and experimenters regarding complementary efforts, and to promote new collaborations to undertake in-depth investigations. Because of the breadth of physics and astrophysics needed to describe neutron stars, frontier efforts that are necessarily multidisciplinary are required.

Organizer: M. Prakash (Ohio University, Ohio)

Co-organizers: E. Brown (Michigan State University, Michigan), D. Brown (Syracuse University, New York), A. K. Harding (NASA, Maryland), S. Ransom (NRAO, Virginia), S. Reddy (University of Washington, Washington), H. Schatz (Michigan State University, Michigan), T. E. Strohmayer (NASA, Maryland)

For information on registration, financial support, accommodation, travel, and local resources, see the symposium website soon to be set up.

Confirmed Speakers: J. M. Lattimer* (Stony Brook University), D. Page* (UNAM, Mexico), I. Stairs (University of Victoria, Canada), R. Romani (Stanford University), Z. Arzoumanian or Slavko Bogdanov(NASA), F. Ozel (University of Arizona), A. Watts (University of Amsterdam), R. Wijnands (University of Amsterdam), P. Ray (Naval Research Laboratory), C. Diebel (Louisiana State University) or Jeff Blackmon (?), K. Schoelberg (Duke University), G. Fuller (University of San Diego), A. Cumming (McGill University)

Symposium web-site: For information on registration, financial support, travel and accommodation, click here: [http:// ?](http://?)

Check the JINA-CEE Events page (<http://www.jinaweb.org/html/jinaworkshops.html>) occasionally for the event website. It will be posted when available.

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Registration: To defray the costs of supplies, coffee and lunch breaks, and the symposium dinner, the registration fee is US \$100. For post-docs and students the registration fee is \$50. Method of payment?

Travel: Details on air-travel to Columbus, Ohio, and land travel to Athens, Ohio, here along with web-sites.

Accommodation: Details of hotels and blocked rooms here along with web-sites.

Financial Support: For post-docs and students with method of reimbursement here. Per-diem (dinner costs)?

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PROGRAM

ABSTRACTS

PARTICIPANTS

MAY 23 - May 27, 2016

**OHIO UNIVERSITY
ATHENS, OHIO, USA**

SCIENTIFIC PROGRAM

MONDAY May 23, 2016

8:45 - 9:30	REGISTRATION
9:30 - 10:00	WELCOME AND INFORMATION

Session 1: TITLE

Chair Person: Name

10:00 - 10:40	Review Speaker (40 minutes)	Title
10:40 - 11:00	Discussion (20 minutes)	

11:00 - 11:30 *Coffee Break*

11:30 - 12:10	Speaker (30 + 10 minutes)	Title
12:10 - 12:30	Speaker (15 + 5 minutes)	Title

12:30 - 2:00 *Lunch Break*

Session 2: TITLE

Chair Person: Name

2:00 - 2:40	Review Speaker (40 minutes)	Title
2:40 - 3:00	Discussion (20 minutes)	

3:00 - 3:30 *Coffee Break*

3:30 - 4:10	Speaker (30 + 10 minutes)	Title
4:10 - 4:30	Speaker (15 + 5 minutes)	Title
4:30 - 5:10	Speaker (30 + 10 minutes)	Title
5:10 - 5:30	Speaker (15 + 5 minutes)	Title

5:30 - 6:00 *Discussion*

TUESDAY MAY 24, 2016

Session 3: TITLE

Chair Person: Name

9:00 - 9:30	Review Speaker (40 minutes)	Title
9:30 - 10:00	Discussion (20 minutes)	
10:00 - 10:40	Review Speaker (40 minutes)	Title
10:40 - 11:00	Discussion (20 minutes)	

11:00 - 11:30 *Coffee Break*

11:30 - 12:10	Speaker (30 + 10 minutes)	Title
12:10 - 12:30	Speaker (15 + 5 minutes)	Title

12:30 - 2:00 *Lunch Break*

Session 4: TITLE

Chair Person: Name

2:00 - 2:40	Review Speaker (40 minutes)	Title
2:40 - 3:00	Discussion (20 minutes)	Title

3:00 - 3:30 *Coffee Break*

3:30 - 4:10	Speaker (30 + 10 minutes)	Title
4:10 - 4:30	Speaker (15 + 5 minutes)	Title
4:30 - 5:10	Speaker (30 + 10 minutes)	Title
5:10 - 5:30	Speaker (15 + 5 minutes)	Title

5:30 - 6:00 *Discussion*

WEDNESDAY MAY 25, 2016

Session 5: TITLE

Chair Person: Name

9:00 - 9:30	Review Speaker (40 minutes)	Title
9:30 - 10:00	Discussion (20 minutes)	
10:00 - 10:40	Review Speaker (40 minutes)	Title
10:40 - 11:00	Discussion (20 minutes)	

11:00 - 11:30 *Coffee Break*

11:30 - 12:10	Speaker (30 + 10 minutes)	Title
12:10 - 12:30	Speaker (15 + 5 minutes)	Title

12:30 - 2:00 *Lunch Break*

Session 6: TITLE

Chair Person: Name

2:00 - 2:40	Review Speaker (40 minutes)	Title
2:40 - 3:00	Discussion (20 minutes)	Title

3:00 - 3:30 *Coffee Break*

3:30 - 4:10	Speaker (30 + 10 minutes)	Title
4:10 - 4:30	Speaker (15 + 5 minutes)	Title
4:30 - 5:10	Speaker (30 + 10 minutes)	Title
5:10 - 5:30	Speaker (15 + 5 minutes)	Title

5:30 - 6:00 *Discussion*

7:00 *Symposium Dinner*

THURSDAY MAY 26, 2016

Session 7: TITLE

Chair Person: Name

9:00 - 9:30	Review Speaker (40 minutes)	Title
9:30 - 10:00	Discussion (20 minutes)	
10:00 - 10:40	Review Speaker (40 minutes)	Title
10:40 - 11:00	Discussion (20 minutes)	

11:00 - 11:30 *Coffee Break*

11:30 - 12:10	Speaker (30 + 10 minutes)	Title
12:10 - 12:30	Speaker (15 + 5 minutes)	Title

12:30 - 2:00 *Lunch Break*

Session 8: TITLE

Chair Person: Name

2:00 - 2:40	Review Speaker (40 minutes)	Title
2:40 - 3:00	Discussion (20 minutes)	Title

3:00 - 3:30 *Coffee Break*

3:30 - 4:10	Speaker (30 + 10 minutes)	Title
4:10 - 4:30	Speaker (15 + 5 minutes)	Title
4:30 - 5:10	Speaker (30 + 10 minutes)	Title
5:10 - 5:30	Speaker (15 + 5 minutes)	Title

5:30 - 6:00 *Discussion*

FRIDAY MAY 27, 2016

Session 9: TITLE

Chair Person: Name

9:00 - 9:30	Review Speaker (40 minutes)	Title
9:30 - 10:00	Discussion (20 minutes)	
10:00 - 10:40	Review Speaker (40 minutes)	Title
10:40 - 11:00	Discussion (20 minutes)	

11:00 - 11:30 *Coffee Break*

11:30 - 12:10	Speaker (30 + 10 minutes)	Title
12:10 - 12:30	Speaker (15 + 5 minutes)	Title

12:30 - 1:00 *Discussion and Conclusion*

PARTICIPANTS

LIST OF ABSTRACTS

Name:

Title:

Abstract: