



the 16th International Symposium on Nuclei in the Cosmos

First Circular

We are pleased to announce that the 16th International Symposium on Nuclei in the Cosmos (NIC-XVI) will be held during 21st – 25th September 2020 in Chengdu, China. NIC-XVI is organized by China Institute of Atomic Energy (CIAE) and will be supported by the International Union of Pure and Applied Physics (IUPAP), National Natural Science Foundation of China (NSFC), Asia-Pacific Center for Theoretical Physics (APCTP), Asian Nuclear Physics Association (ANPhA), China Center of Advanced Science and Technology (CCAST), China National Nuclear Corporation (CNNC) and CIAE.

Overview and background

Nuclei in the Cosmos is the most important international meeting in the field of nuclear astrophysics. It brings together nuclear experimentalists, nuclear theorists, astronomers, theoretical astrophysicists, cosmo-chemists, and others interested in the scientific questions at the interface of nuclear physics and astrophysics. These questions concern, for example, the origin of the elements in the cosmos and the nuclear reactions that occur in the big bang, in stars, and in stellar explosions.

Past meetings have been held in Gran Sasso - Italy (2018), Niigata- Japan (2016), Debrecen-Hungary (2014), Cairns- Australia (2012), Heidelberg - Germany (2010), Mackinac Island - USA (2008), Geneva - Switzerland (2006), Vancouver - Canada(2004), Fuji-Yoshida - Japan (2002), Aarhus - Denmark (2000), Volos - Greece (1998), Notre Dame - USA (1996), Gran Sasso - Italy (1994), Karlsruhe - Germany (1992), Baden bei Wien - Austria (1990).

Main Topics

- Nuclear reaction rates and stellar abundances
- The s process
- Nuclear properties for astrophysics
- High density matter
- Novae and XRB
- SNIa and the p process
- Core collapse SN, mergers and the r process
- Underground nuclear astrophysics
- The early universe
- Galaxy evolution
- Radioactivity and meteorites
- Inputs for Astrophysics
- One Minute Poster Presentations
- Remaining Poster presentations

Important Dates (preliminary):

- March 1 , 2020: Second circular
- March 15 , 2020: Start of registration
- March 31 , 2020: Abstract submission open
- June 30 , 2020: Abstract submission closed
- July 31, 2020: Final Circular:
- August 31, 2020: Conference program announced
- September 21-25, 2020: NIC XVI 2020 Symposium

Satellite meetings (preliminary):

- September 15-20, 2020: NIC school
- September 26-28, 2020, Underground nuclear astrophysics workshop and site tour to CJPL/JUNA

Registration, Fees, and Abstract

The members of IAC, PAC, and Loc, as well as details of the call for abstracts, the instructions for abstract submission, the registration fees for the symposium, and the instructions for their payment will be announced in the second circular and will be posted on the symposium web site.

NIC School

A NIC School will be held prior to the symposium for graduate students and young postdocs. The school will provide lectures on basics and the current subjects in nuclear astrophysics. The NIC School provides good opportunity for the participants to present and discuss their works, too. The details will be announced in the forthcoming circular and on the symposium web site.

Proceedings

The conference proceedings will be published in electronic form such as EPJ Web of Conferences (www.epj-conferences.org), an open access journal from the series The European Physical Journal (www.epj.org). Each contributed article will be fully citable thanks to DOI (Digital Object Identifier), and will be indexed in main databases. There will be no printed version of the proceedings. Further information on the manuscript preparation will be provided in the second circular.

Contacts

- The symposium web site is:: <http://www.juna.ac.cn/nic2020>
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