

# **Nuclear Physics in Astrophysics IV**

XXII International Nuclear Physics  
Divisional Conference of the European Physical Society

A Europhysics Conference

Laboratori Nazionali del Gran Sasso, Assergi, Italy  
June 8 - 12 2009

## **First Circular**

Assergi, October 8, 2008

The conference is the fourth in the NPA, Nuclear Physics in Astrophysics, biennial series. The first conference was held in the Institute of Nuclear Research of the Hungarian Academy of Sciences (ATOMKI), Debrecen, Hungary in 2002.

The purpose of the NPA conferences is to bring together Nuclear Physics and Astrophysics giving the scientific community the possibility to review and discuss the status and prospects of the Nuclear Astrophysics field.

## **Venue**

The conference will be held at Laboratori Nazionali del Gran Sasso, INFN, Assergi, L'Aquila, Italy between 08-12 June, 2009.

The Gran Sasso National Laboratory LNGS is one of four INFN national laboratories. It hosts experiments from the fields of Astroparticle Physics, Nuclear Astrophysics and other disciplines which require a low background environment. In particular the LUNA facility represents the worldwide only underground accelerator.

LNGS is located nearby the village of Assergi inside the “Parco Nazionale del Gran Sasso and Monti della Laga” and close to the town of L'Aquila, the capital of the Abruzzo region. The history of region is a fascinating blend of traditions and legends, L'Aquila was founded in mid-13th century. The territory hosts a unique natural environment with rare species of flora and fauna. It is also rich in history with architectural (romanesque and gothic churches) and archaeological features back to the Roman times.

## Scientific Program

NPA IV program will consist of invited review talks on recent achievements of Nuclear Astrophysics and selected oral and poster contributions on important experimental and theoretical results in the following fields:

- Big-Bang Nucleosynthesis and Formation of First Stars
- Stellar Nucleosynthesis
- Explosive Nucleosynthesis
- Nuclear Structure Far from Stability
- Underground Facilities for Nuclear Astrophysics and Rare-Event Physics

## Committees

### IAB - International Advisory Board:

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## **LOC - Local Organizing Committee:**

Prof. Dr. Eugenio Coccia, director of LNGS, chair

Dr. Alba Formicola (scientific secretary)

Dr. Carlo Gustavino

Dr. Matthias Junker

Conference secretary: Mr. Fausto Chiarizia

## **Proceedings**

Both oral contributions and selected poster will be peer reviewed by a dedicated committee of referees.

The proceedings of the conference will be published in an international journal as a special issue. Independently this volume will also be made available in book form for the conference participants.

## **Fee and support**

The following conference fees will apply:

- for Individual Ordinary Members of EPS: 350 EUR
- for Members of National Societies: 350 EUR
- for Non-Members: 380 EUR
- Students: 300 EUR

The fee includes:

- the transportation from/to the Rome airports
- the shuttle service from/to the hotel
- the visit at the underground laboratory
- the abstract booklet and a copy of the proceedings volume
- refreshments and lunches

The number of participants is limited to 120. Accommodation will be in nearby hotels at a walking distance of about 10 minutes. Special rates will be applied for the participants. Rooms are available for single and double occupancy in different categories.

The Local Committee will encourage the attendance of young physicists. A limited amount of support will be available for young scientists upon request.

## **Correspondence**

Further information is available at the conference website:

<http://npa4.lngs.infn.it>

e-mail: [npa4@lngs.infn.it](mailto:npa4@lngs.infn.it)

## **Address**

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We are looking forward to welcome you at the Laboratori Nazionali del Gran Sasso.

The Local Organizing Committee