

International Conference on Frontiers in Nuclear Structure, Astrophysics and Reactions

- 1st CIRCULAR -



Dear Colleagues

This is the 1st circular of the international conference entitled "Frontiers In NUClear STructure, Astrophysics and Reactions" (FINUSTAR) to be held on the Aegean island of Kos, Greece, on September 12-17, 2005. FINUSTAR aims at covering a wide spectrum of research activities, both theoretical and experimental, in nuclear structure, nuclear astrophysics and nuclear reactions. Though these research directions refer to different sub-communities of nuclear physicists, the interplay between these fields has been strengthened over the last years mainly by the utilization of common instrumentation and research facilities. It is therefore of outmost importance to bring researchers from these scientific "brotherhoods" in close contact in order to a) discuss common problems, b) present recent results, c) get informed about the latest developments in theory as well as about the most recent achievements in instrumentation. To meet these goals and furthermore initiate interdisciplinary collaborations, FINUSTAR will cover the following scientific topics:

- ✓ Nuclear structure at the extremes (halos and skins, $N \approx Z$ nuclei, drip-line physics, high spin states, extreme deformations, ...)
- ✓ Collective phenomena and phase transitions in nuclei (shape coexistence, critical point symmetries, GDR's, ...)
- ✓ Synthesis and structure of the heaviest elements (new elements, high K-isomers, fission barriers, ...)
- ✓ Exotic excitations (wobbling, magnetic rotation, band termination and beyond, ...)
- ✓ Nuclear masses and ground state properties.
- ✓ Ab-initio calculations and the shell model.
- ✓ Developments in mean field theories, cluster models and molecular dynamics.
- ✓ Nucleon scattering as a probe for nuclear structure.
- ✓ Nuclear reactions off stability and indirect methods.
- ✓ Reaction dynamics of light and heavy ions at low and intermediate energies.
- ✓ Weak-interaction processes in nuclear astrophysics - Neutrino physics
- ✓ Real photons in nuclear structure and nuclear astrophysics.
- ✓ Nucleosynthesis in the cosmos and nuclear physics aspects.
- ✓ Radioactive and exotic relativistic beams.
- ✓ Facilities and instrumentation for the future.

The conference will be hosted at the 4*-superior Kipriotis Village Resort located at the Psalidi coast approximately 2.5 Km from the town of Kos. The conference will start on Monday morning (Sept. 12) and will end on Friday afternoon (Sept. 16). Lectures will be given at the PANACEA amphitheatre - one of the 12 conference halls - of the famous Kos

International Convention Centre (KICC) that is part of the Kipriotis Village Resort. A welcome reception (cocktail and buffet dinner) will take place in the evening of Sunday Sept. 11. The conference banquet will be held on Friday evening Sept. 16. On Wednesday Sept. 14, two different one-day cruises (optional) are scheduled. In the first one, participants will have the chance to visit the Island of Apocalypse Patmos. The second cruise include a visit to the volcanic island of Nissyros. The proceedings of the conference will be published and the name of the publisher will be announced soon. The manuscripts will be collected at the beginning of the conference upon registration.

DEADLINES

- Abstract submission: May 1, 2005
- Early registration: June 15, 2005
- Late registration: September 12, 2005
- Hotel reservation: July 15, 2005

FEES

- Early registration: 330 Euros
- Late registration: 380 Euros
- Accompanying persons: 220 Euros
- Students: 250 Euros

Fees include:

- Coffee breaks
- Welcome cocktail and buffet on Sunday, Sept. 11., 2005
- Banquet (conference dinner) on Friday, Sept. 16, 2005
- One copy of the proceedings
- Conference bag, and booklet of abstracts

Fees have to be paid via bank transfer (the relevant account will be given soon). Late registration fees can be paid in cash at the beginning of the conference upon registration.

ACCOMMODATION

The accommodation costs including breakfast buffet and lunch amount to:

- 100 Euros / day for a double room with single occupancy.
- 135 Euros / day for a double room with double occupancy.
- 170 Euros / day for a triple room (3 adults).
- 156 Euros / day for a triple room (2 adults + kid 2-12 years old).

Babies 0-2 years old, free of charge in adults room.

These rates apply also for an extended stay (before or after the conference).

Please download the reservation form from the web-site of the conference and send via email (reservations@kipriotis.gr) or fax to the reservations department of the hotel. (Hotel contact person: Mrs. Astero Pitia, fax:+302242023590, phone: +302242027640).

For more details please visit our web-page (<http://www.inp.demokritos.gr/~finustar>).

Looking forward to welcoming you to Kos
Rauno Julin and Sotirios Harissopulos, Chairs of FINUSTAR

International Conference on
Frontiers in Nuclear Structure,
Astrophysics and Reactions



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THE KIPRIOTIS VILLAGE RESORT

(<http://www.kipriotis.gr>)



THE PANACEA AMPHITHEATRE

