

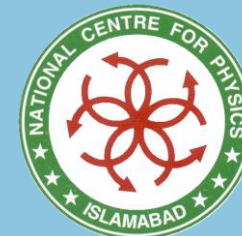


International School on Physics & Allied Disciplines

March 09 – 13, 2020
Islamabad, Pakistan

Directors:

Hafeez R. Hoorani (NCP, Pakistan), Joseph Niemela (ICTP, Italy)



Further Information:
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The National Centre for Physics (NCP), Islamabad, Pakistan and The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy are jointly organizing the International School on Physics & Allied Disciplines (ISPAD) in Islamabad, Pakistan from March 09 - 13, 2020.

Introduction

The idea of holding the ISPAD at NCP is to provide a platform for the local and the foreign participants to exchange scientific knowledge and to generate enthusiasm for science and innovation. Around 250 young Pakistani M.Phil./Ph.D. students, researchers, university faculty and many foreign invited speakers and participants will take part in the deliberations of ISPAD-2020.

Format

Each year, the topics (technical activities) of School are chosen keeping in view the present and future research interests of NCP, universities and national R&D institutions. The School will consist of plenary, parallel and poster sessions as well as tutorials and structured discussions relevant to various technical activities in the chosen topics. The plenary lectures contain mostly overviews of advances in the chosen areas for general audience while the lectures/talks in parallel sessions cover the recent research on the specific topics.

Scientific Secretary:

Ishaq Ahmad

E-mail: ishaq.ahmad@ncp.edu.pk

International Advisory Committee

Tieshan Wang (China)
Michael Bonitz (Germany)
Dimitri Batani (France)
Luca Volpe (Spain)
Atsushi Fukuyama (Japan)
Naeem A. Tahir (Germany)
Andrej Kuznetsov (Norway)
Anders Hallén (Sweden)
Raşit Turan (Turkey)
Jun Luo (China)

Key Speakers

Plasma Physics

Dimitri Batani (France)
Luca Volpe (Spain)
Atsushi Fukuyama (Japan)
Tobias Dorheim (Germany)
Zhandos Moldabekov (Kazakhstan)
Nasr A. M. Hafz (China)
Wael F. El-Taibany (Egypt)
Yuming Wang (China)
Waleed M. Moslem (Egypt)
Quanming Lu (China)
M. H. Woo (South Korea)
Huynh C. Tuan (South Korea)

Radiation-Matter Interaction

Skukan Natko (IAEA),
Rachid Sbiaa (Oman)
Tieshan Wang (China)
Hanan M. Sa'adeh (Jordan)
Zhao Tingkai (China)
Haiwon Lee (South Korea)
Martin Richardson (USA)
Kyunghwan (Ken) Oh (South Korea)
Bruce Marsh (CERN, Switzerland)
Jie Liu (China)
Shan Jiang (China)
Mlungisi Nkosi (South Africa)
Limin Zhang (China)
Haibo Peng (China)
Zhong Fu (UK)
Li Hao (China)
Morgan Madhuku (South Africa)

Local Organizers:

Abdul Hamid (NCP)
Shabbir Ahmed (NCP)
Rizwan Ahmed (NCP)
Javaid Hussain (NCP)

Topics and Coordinators

A. Plasma Physics: Theory and Applications (PP)

Basic Plasma Physics, Coherent Nonlinear Phenomena, Quantum Plasmas, Computational Plasma Physics, Experimental Techniques, Fusion Plasma Physics

Coordinators: Mohsin Siddiq (NCP), Waqas Masood (CIIT), Shabbir Ahmed Khan (NCP)

B. Radiation – Matter Interaction (RMI)

Computer Simulation of Radiation Interactions, Radiation Induced Defects in Solids, High Harmonics Generation (HHG), Ion Implantation, Medical Radioisotopes Production with Ion Beams, Radiation Protection & Safety. Advanced Materials Analysis using Ion-Beam, Lasers (LIBS, laser based mass spectroscopy etc.), Gamma-rays, X-rays, Neutron and Synchrotron Radiation Techniques etc.

Coordinators: M. Aslam Baig (NCP), Muhammad Usman (NCP), Muhammad Shahid (PNRA)

Participation

Active graduate & postgraduate students, post-doctoral researchers, faculty and research scientists who have also published research work in recognized international journals during the last three years are encouraged to participate (oral or poster presentation). Local hospitality will be provided to the participants; however, no travel re-imbursement will be paid. A limited number of travel grants may be provided to the foreign participants, especially those from the developing countries of the region.

How to apply

The Online Registration Form can be accessed at: <http://www.ncp.edu.pk/ispad-2020.php>. The Application Form should be submitted by **December 15, 2019** by foreign participants and **January 31, 2020** by local participants. Selection will be made by the Technical Committee of ISPAD-2020. Foreign applicants are required to attach/provide scans of the first two relevant pages of their passports valid at least six months after the ISPAD-2020 event. These documents to be submitted to the activity secretariat by email before the deadline for registration. Selected applicants will be required to pay a registration fee of PKR. 2000/- for local participants and PKR. 3000/- for outstation participants through online. There is no registration fee for the invited speakers and foreign participants.

Sponsors

- The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy
- Pakistan Academy of Sciences (PAS), Islamabad, Pakistan
- Pakistan Science Foundation (PSF), Islamabad, Pakistan

Collaborations & Academic Activities Department (CAAD)
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Application Deadline

Dec. 15, 2019
For Foreign Participants
Feb. 10, 2020
For Local Participants