



First Announcement International School on Physics & Allied Disciplines



**March 09 – 13, 2020
Islamabad, Pakistan**

Further Information:
ispad@ncp.edu.pk
+92 51 2077363

Directors:

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

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.

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 bases mass spectroscopy etc), Gamma-rays, X-rays, Neutron and Synchrotron Radiation Techniques etc.

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

Participation

Active graduate & post graduate 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. As a rule, travel expenses of the participants should be borne by their home institutes. However, partial travel assistance may be provided to selected local participants residing outside Islamabad. A limited number of travel grants may also 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 **November 30, 2019 for foreign participants** and by **January 31, 2020 for 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 PKR. 2500/- 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)

National Centre for Physics, QAU Campus, Shahdra Valley Road, Islamabad, Pakistan
Tel: +92-51-2077363, Fax: +92-51-2077395
www.ncp.edu.pk

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)
Naem 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)
Liming Zhang (China)
Haibo Peng (China)
Zhong Fu (UK)
Li Hao (China)*

Local Organizers:

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

Application Deadline

Nov. 30, 2019

For Foreign Participants

Jan. 31, 2020

For Local Participants