



# First Announcement International School on Physics & Allied Disciplines



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

**Further Information:**  
[ispad@ncp.edu.pk](mailto:ispad@ncp.edu.pk)  
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## **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.

## **Scientific Secretary:**

**Ishaq Ahmad**

*E-mail: [ishaq.ahmad@ncp.edu.pk](mailto:ishaq.ahmad@ncp.edu.pk)*

## **International Advisory Committee**

*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)*

*Prof. 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**

*Rachid Sbiaa (Oman)*

*Tieshan Wang (China)*

*Hanan M. Sa'adeh (Jordan)*

*Zhao Tingkai (China)*

*Martin Richardson (USA)*

*Kyunghwan (Ken) Oh (South Korea)*

*Bruce Marsh (CERN, Switzerland)*

## **Local Organizers:**

*Abdul Hamid (NCP)*

*Muhammad Usman (NCP)*

*Shabbir Ahmed (NCP)*

*Rizwan Ahmed (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-Solid Interactions, Ion implantation in Semiconductors, Radiation Induced Defects in Solids, Medical Radioisotopes Production with Ion Beams, Advanced Materials Analysis using Lasers, Synchrotron Radiation, Ion beam induced defects engineering in nanomaterials and thin films, Laser Induced Breakdown Spectroscopy (LIBS), Higher Harmonics Generation and Laser Based Mass Spectroscopic Elemental Analysis etc.

*Coordinators: M. Aslam Baig (NCP), Ishaq Ahmed (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

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[www.ncp.edu.pk](http://www.ncp.edu.pk)

**Application  
Deadline**

**Nov. 30, 2019**

*For Foreign Participants*

**Jan. 31, 2020**

*For Local Participants*