



International School on Physics & Allied Disciplines (Webinar)



March 09 – 11, 2021
Islamabad, Pakistan

Directors:

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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 - 11, 2021. Due to pandemic of COVID-19, the ISPAD-2021 will be held virtually.

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-2021.

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. Due to pandemic of COVID-19, the presentations / lectures will be delivered online.

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 effects 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), Turab Ali (NCP), Muhammad Shahid (PNRA)

Participation

Fresh 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)

How to apply

The Online Registration Form can be accessed at: <http://www.ncp.edu.pk/ispad-2021.php>. The Application Form should be submitted by **February 28, 2021** by foreign and local participants. Selection will be made by the Technical Committee of ISPAD-2021. There is **no registration fee** for participation in the ISPAD-2021.

Application Deadline

Feb 28, 2021

For Foreign and Local Participants

Collaborations & Academic Activities Department (CAAD)

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Scientific Secretary:

Mohsin Siddiq

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International Advisory Committee

Atsushi Fukuyama (Japan)

Dimitri Batani (France)

Ioannis Kourakis (UAE)

Jose Tito Mendonca (Portugal)

Luca Volpe (Spain)

Michael Bonitz (Germany)

Naeem A. Tahir (Germany)

Zhao Tingkai (China)

Key Speakers

Plasma Physics

Atsushi Fukuyama (Japan)

Bengt Eliasson (UK)

Dimitri Batani (France)

Gert Brodin (Sweden)

Ioannis Kourakis (UAE)

Jose Tito Mendonca (Portugal)

Luca Volpe (Spain)

Michael Bonitz (Germany)

Naeem A. Tahir (Germany)

Tobias Dorheim (Germany)

Zhandos Moldabekov (Germany)

Radiation-Matter Interaction

Ahmad Haziq Aiman (Malaysia)

Christophe Finot (France)

Haibo Peng (China)

HongJoo Kim (S. Korea)

John M. Dudley (France)

Kyunghwan Oh (South Korea)

Liming Zhang (China)

Mahmoud Izerrouken (Algeria)

Natko Skukan (Austria)

Parviz Elahi (Turkey)

Raphael Mmaduka Obodo (Nigeria)

Sorokin Mikhail (Russia)

Shan Jiang (China)

Saqib Ali khan (S. Korea)

Sulaiman Wadi Harun (Malaysia)

Samson Olatubosun Aisida (Nigeria)

Wang Tieshan (China)

Vincenzo Palleschi (Italy)

Walid Tawfik (Egypt)

Local Organizers:

Turab Ali (NCP)

Shabbir Ahmed (NCP)

Rizwan Ahmed (NCP)