



International School on Physics & Allied Disciplines (VIRTUAL)



March 14 – 18, 2022
Islamabad, Pakistan

Further Information:
ispad@ncp.edu.pk
+92 51 2077348

Directors:

Mansoor Hameed Inayat (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 14 - 18, 2022. Due to pandemic of COVID-19, the ISPAD-2022 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-2022.

Format

Each year, the topics (technical activities) of the 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. Nano Sciences & Technology

Synthesis of nanostructured materials; Advance characterization techniques; Multifunctional materials; Nanotechnology for clean energy and environment; Nanofabrication and lithography; Printed electronics; Biomaterials and nano-biotechnology; Nanomedicine; Energy Storage and conversion devices; Carbon Nanomaterials, MXenes and related materials:

Coordinator: Sara Qaisar (NCP), Imran Shahzad (NCP)

B. High Energy Physics & Cosmology

Physics potential of the high-luminosity phase of the LHC, Perspectives for a possible future high-energy LHC, Standard model and beyond searches, Properties of Higgs Boson, Flavor physics, Neutrino physics, Silicon and gaseous detectors in HEP, Statistical concepts in HEP.

Coordinator: Wajid Ali Khan (NCP)

Participation

Active graduate & postgraduate students, post-doctoral researchers, faculty and research scientists 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-2022.php>. The application form should be submitted by **Dec 15, 2021** by foreign participants and **February 15, 2022** by local participants. Selection will be made by the Technical Committee of ISPAD-2022.

Application Deadline

Dec 15, 2021
For Foreign Participants

Feb 20, 2022
For Local Participants

Collaborations & Academic Activities Directorate (CAAD)
National Centre for Physics, Shahdra Valley Road, Islamabad, Pakistan
Tel: +92-51-2077300 – 350, 520, Fax: +92-51-2077342
www.ncp.edu.pk

Scientific Secretary:

Ashfaq Ahmad
E-mail: ashfaq.ahmad@ncp.edu.pk

International Advisory Committee

Alain Dufresne (France)
Alberto Tagliaferro (Italy)
Albert De Roeck (Belgium)
Jonathan R. Ellis (UK)
Paris Spicas (Switzerland)
Thomas Muller (Germany)

Key Speakers

Nano Sciences & Technology

David Lewis (UK)
Elena Tresso (Italy)
Kamran Amin (China)
Luca Zoia, (Italy)
Zhixiang Wei (China)
Zhao Tingkai (China)

High Energy Physics & Cosmology

Yifang Wang (China)
Thomas Muller (Germany)
Albert De Roeck (Belgium)
Paris Spicas (Switzerland)
Frank Hartmann (Germany)
Roger Barlow (UK)
Ahmad Ali (Germany)
Antoine Kouchner (France)
Andrea Rizzi (Italy)
Ashfaq Ahmad (Pakistan)
Chen Shaomin (China)
Nausheen Shah (US)
Yahya Tayalati (Morocco)
Abdelilah Moussa (Morocco)
Shoaib Munir (Rawanda)
Waqas Ahmad (China)
Bilal Masood (Pakistan)
Jamil Aslam (Pakistan)
Faisal Akram (Pakistan)
Rizwan Khalid (Pakistan)
Mansoor ur Rehman (Pakistan)
Rashid Ahmad (Pakistan)
Shakeel Ahmad (Pakistan)
Saleh Muhammad (Pakistan)
Irfan Asghar (Pakistan)
Imran Malik Awan (Pakistan)

Local Organizers:

Wajid Ali Khan (NCP)
Imran Malik Awan (NCP)
M. Usman Ashraf (NCP)
Anila Iqbal (NCP)
Haris Bin Nazar (NCP)
Muhammad Asjad (NCP)
Rabia Rasheed (NCP)