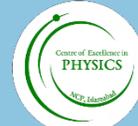


# International School on Physics & Allied Disciplines

April 06 – 10, 2026  
Islamabad, Pakistan



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 April 06 - 10, 2026.

## Introduction

The ISPAD event is organized regularly at NCP since 2009. The main idea of organizing this event is to bring together the researchers to share scientific knowledge and to provide the opportunities for international collaborations. Around 200 local students, researchers, university faculty and many foreign invited speakers and participants are expected to participate in this event.

## 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. The plenary sessions provide overview of advances while the parallel sessions cover the recent research on the specific topics.

## Topics and Coordinators

### A. Atmospheric Physics & Thermodynamics

Atmospheric thermodynamics, Weather modification techniques and strategies, Monsoon and winter smog review, Air quality, Ground based greater, Numerical weather model for cloud seeding, Machine learning based prediction model, Cloud seeding, Flares technology, Environmental Physics, Cloud ionization and formation, Atmospheric chemistry, Remote sensing.

**Coordinators:** Dr. Waqar Ahmed (NCP), Dr. Naveed Zafar (NCP), Dr. Farrukh Bashir (PMD)

### B. Semiconductor Physics & Devices

Growth of semiconducting materials, Semiconductor thin films, Device fabrication & characterization, Emerging semiconductor technologies, Photoelectric and photovoltaic devices, Defects engineering, Spintronic, Device modeling & transport phenomena.

**Coordinators:** Dr. Kashif Shahzad (NCP), Dr. Humaira Safdar (NCP), Dr. Zainab Zafar (NCP)

### C. 2D Materials and Quantum Effect Devices

Growth and characterization of 2D materials, Electrical and optical properties of 2D materials, Quantum effect devices: Quantum sensors, Nano devices, Single electron devices, Fabrication of qubits, Fabrication and characterization of quantum dots, Single photon sources and detectors. Quantum transport. Ferroelectric materials, Memory devices, Theory and simulation related to 2D materials and quantum effect devices.

**Coordinators:** Dr. Arifa Jamil (NCP), Dr. Misbah Qurban (NCP), Dr. Muhammad Imran (NILOP), Dr. Sadiq Nawaz (NILOP)

## Participation:

Active graduate & postgraduate students, post-doctoral researchers, faculty and research scientists are encouraged to participate. Applicants with oral or poster presentation will be preferred. Best posters will be awarded.

## How to Apply:

The online registration form can be accessed at: <http://www.ncp.edu.pk/ispad-2026.php>. The application form should be submitted by **Jan. 15, 2026**. Selection will be made by the Scientific Committee of ISPAD-2026. 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-2026 event. These documents to be submitted through email ([ispad@ncp.edu.pk](mailto:ispad@ncp.edu.pk)) before the registration deadline.

## Abstract Submission:

Participants intending to present a paper are invited to submit an abstract (200–400 words) that includes the title, authors' names, affiliations, e-mail and postal addresses. The official language of the School is English. Abstracts or papers may be submitted online at <http://www.ncp.edu.pk/ispad-2026.php>.

## Registration Fee:

**Professionals:** Rs. 7000/- (Including accommodation & meals)

**Students:** local: Rs. 2000/- & Outstation: Rs. 5000/- (Including accommodation & meals)

*Travel reimbursement (partial/full) as per admissible rule may be provided to outstation candidates.*

Selected applicants will be required to pay the registration fee via online payment. There is no registration fee for the invited speakers and foreign participants.

## Sponsor:

The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.

## Directors

Dr. Qaisar Ahsan (NCP, Pakistan)

Dr. Joseph Niemela (ICTP, Italy)

## Advisory Committee

Prof. Dr. Shunri Oda (Japan)

Prof. Dr. Zahid Ali Khan Durrani (UK)

Dr. Xiulai Xu (China)

Dr. Shakeel Abbas Rofi (Pakistan)

Dr. Javed Akhtar (Pakistan)

Prof. Dr. Kashif Sabeeh (Pakistan)

## Scientific Committee

Dr. Muhammad Aftab Rafiq

(Scientific Secretary) (NCP)

E-mail: [qftab.rafiq@ncp.edu.pk](mailto:qftab.rafiq@ncp.edu.pk)

Dr. Mohsin Siddiq (NCP)

Dr. Ashfaq Ahmad (NCP)

Dr. Muhammad Usman (NCP)

## Invited Speakers

### Atmospheric Physics & Thermodynamics

Dr. Zhanyu Yao (China)

Prof. Qian Chen (China)

Ms. Shen (China)

Dr. Muhammad Afzal (Pakistan)

Dr. Farrukh Bashir (Pakistan)

Dr. Muhammad Naveed (Pakistan)

Mr. Hassan Bukhari (Pakistan)

Dr. Waqar Ahmed (Pakistan)

### Semiconductor Physics & Devices

Prof. Dr. Jun Luo (China)

Prof. Xiaohang Li (KSA)

Prof. Nouredine Sengouga (Algeria)

Dr. Falak Sher (Pakistan)

### Quantum Effect Devices

Prof. Dr. Shunri Oda (Tokyo)

Dr. Zahid Ali Khan (UK)

Prof. Chunbo Li (China)

Dr. Xiulai Xu (China)

Dr. Zahir Iqbal (Pakistan)

Dr. Muhammad Usman (Pakistan)

Dr. Muhammad Faryad (Pakistan)

### Administrative Committee

Mr. M. Kamran Saadat

Mr. Zia-ud-Din Kasi

Dr. Ali Ahmad

Dr. Tanzeel Murtaza

## Important dates

**Last date for registration & abstract submission:**

**Jan. 15, 2026**

**Abstract acceptance notification: Feb. 06, 2026**

**Manuscript Submission: March 06, 2026**

**Participation Confirmation: March 20, 2026**

## Poster Competition

Cash prizes for the Best-3 participants in Poster Competition.

## Further Information

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