



4th Workshop on Plasma Physics

April 22 - 26, 2019

National Centre for Physics (NCP)

Introduction

Plasma exists in many forms in nature and has a widespread use in science and technology ranging from gigantic astrophysical scales to terrestrial laboratory scales. Plasmas provide exciting industrial applications and future energy solutions. Understanding the complex behavior of plasmas has motivated researchers to formulate the fundamental models of plasma physics. This foundational work on plasmas has led to important advances in other fields like space physics, computational physics, mathematical modeling and numerical analysis, laser physics, etc.

The Department of Theoretical Physics (TPD) at NCP, Islamabad is regularly organizing workshop on Plasma Physics since 2015. This is the fourth workshop of the series. The workshop covers basic aspects of plasma physics with gradual concept building in mathematical modeling, computational plasma physics, simulation, and experimental techniques in fusion plasma physics. The idea of holding this workshop at NCP is to train and inspire the young students and researchers by providing them a platform to exchange their scientific knowledge on recent developments in the field of Plasma Physics. The event consists of invited talks, group discussion and lab sessions by the experts.

Topics to be Covered

- Kinetic Model
- Multi Fluid Theory
- MHD Theory
- Distribution Function in Plasmas
- Fusion Plasmas
- Plasma Simulation

Participation

Active BS students and graduate students enrolled in a physics program at an HEC recognized university/Institute are encouraged to apply for participation. Participation of junior students has been thought to be useful to introduce them to the exciting field of Plasma Physics. As a rule, travel expenses of the participants should be borne by their home institutes. However, partial travel assistance may be provided to a few selected participants residing outside Islamabad.

Registration Fee

Local Students:	Pak Rs. 1500/-
Outstation Students:	Pak Rs. 2000/-
Employees:	Pak Rs. 3000/-

How to apply

Application form can be accessed at: <http://www.ncp.edu.pk>. Duly signed scanned copy of the application form should be submitted to the Activity Technical Coordinator by Email on/or before April 05, 2019. All applicants are required to mention their CNIC in the Application Form.

Directors

Hafeez R. Hoorani
Mohsin Siddiq

Advisory Committee

Hassan A. Shah
Hamid Saleem

Technical Committee

Waqas Masood
Ali Ahmad
Shahid Ali
Shabbir A. Khan

Invited Speakers

Hamid Saleem (IST, Islamabad)
Aman-ur Rehman (PIEAS, Islamabad)
Waqas Masood (CUI, Islamabad)
Mohsin Siddiq (NCP, Islamabad)
Arshad M. Mirza (QAU, Islamabad)
Ali Ahmad (NCP, Islamabad)
Shabbir A. Khan (NCP, Islamabad)
Haider Rizvi (PINSTECH, Islamabad)
Usman Hassan (NCP, Islamabad)
M. N. S. Qureshi (GCU, Lahore)

Organizing Committee

Nazia Batool
Rabia Jahangir
Naveed Imran

Technical Coordinator

Shabbir A. Khan
Tel: 051 2077443
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Application Deadline
April 05, 2019

For further information, please contact:

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