



3rd Workshop on Plasma Physics

May 2 - 4, 2017

National Centre for Physics (NCP)

QAU Campus, Shahdrah Valley Road, Islamabad, Pakistan

Introduction

More than 99% of visible universe is in plasma state, the fourth state of matter. Plasmas have wide range of applications from astrophysical environments to terrestrial and laboratory scales. Plasmas also provide many exciting industrial applications and future energy solutions. Due to tremendous variations of temperatures and densities, the study of plasma dynamics and wave propagation at different time and length scales has got a great deal of interest globally.

The Department of Theoretical Physics (TPD) at NCP, Islamabad is organizing a three-day Workshop on Plasma Physics from May 2 - 4, 2017. The 2nd Workshop of this series was held last year which covered the topics, such as, Basics of Plasma Physics, MHD Theory, Fundamentals of Kinetic Theory, Space and Astrophysical Plasmas, Laser Induced Plasmas, etc. The 3rd Workshop is more specific and devoted to pedagogy of the rudimentary principles of Plasma Physics, Aspects of Electromagnetism, Fluid Theory and Simulation. The idea of holding this Workshop at NCP is to inspire the young researchers and students by providing them a platform to meet and exchange their scientific knowledge about recent developments in the field of Plasma Physics. The event consists of invited talks and group discussion by the experts.

Topics to be Covered

- Multi Fluid Theory
- MHD Theory
- Drift Waves
- Plasma Simulation

Participation

Active BS level students, graduate & post graduate students enrolled in Physics program at HEC recognized universities/Institutes 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 Secretariat by Email: tpd-office@ncp.edu.pk on/or before **April 18, 2017**. All applicants are required to mention their CNIC in the Application Form.

Directors

Hafeez R. Hoorani
Mohsin Siddiq

Advisory Committee

Ghulam Murtaza
Hassan A. Shah
Hamid Saleem

Technical Committee

Waqas Masood
Ali Ahmad
Shahid Ali
Shabbir Ahmed

Invited Speakers

Hamid Saleem (IST, Islamabad)
Aman-ur Rehman (PIEAS, Islamabad)
Waqas Masood (CIIT, Islamabad)
Abid H. Mujtaba (CIIT, Islamabad)
Mohsin Siddiq (NCP, Islamabad)
Ali Ahmad (NCP, Islamabad)
Shabbir Ahmed (NCP, Islamabad)
Haider Rizvi (PINSTECH, Islamabad)

Organizing Committee

Nazia Batool
Rabia Jahangir
Naveed Imran

**Application
Deadline**

April 18, 2017

For further information, please contact:

Collaborations & Academic Activities Department (CAAD)

caad@ncp.edu.pk

National Centre for Physics,
QAU Campus, Shahdrah Valley Road, Islamabad, Pakistan
Tel: +92-51-2077363, Fax: +92-51-2077342 & 2077395