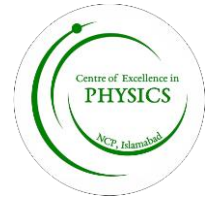




6th International Workshop on Ion Beam Applications

(04 - 06 December, 2024)

Organized by: **Experimental Physics Directorate (CoE Physics)**
National Centre for Physics, Islamabad, Pakistan



Introduction

A three-day “**International workshop on Ion Beam Applications**” is being organized at National Centre for Physics (NCP) from December 04-06, 2024. The workshop is planned around the Pelletron Tandem Accelerator and ion implanter installed at NCP, which offers research opportunities in vast scientific areas; such as material science, solar cells, environmental and biological sciences, nano-technology, material modification, dopant implantation, defects engineering etc. In the same context, national and international users’ workshops were successfully organized in previous years as well. The present event is the continuation in this series.

International and national experts on Ion Beam Applications will deliver series of lectures and hands-on training to raise awareness among students, researchers and engineers. In addition, this platform will also enhance the ability and expertise of respective users on Data Acquisition, Data Analysis and Operation & Control of Sophisticated equipment.

Topics

- Ion beam induced defects in nanostructure, semiconductor and bulk materials
- Thickness, depth profiling, interface diffusion, homogeneity of thin and multilayer films including photovoltaics, optimization of coating setups (RBS).
- Detection and monitoring of trace elements in sample matrix (PIXE)
- Analysis of light elements at the verge of detection limit (PIGE)
- Ion Solid interactions
- Charged particle activation (CPA) and nuclear reaction study
- Low/High energy ion implantation/irradiation

Participation

Research students, post-doctoral researchers, faculty members, scientists and engineers are encouraged to apply for participation. PhD Scholars will be encouraged for oral presentation. For the outstation participants, accommodation at NCP will be provided with additional cost of Rs. 3000/-.

Registration Fee

- Local Students: Rs. 3000/-
- Faculty members/Professionals: Rs. 6000/-

How to apply

Application Form can be accessed at: <http://www.ncp.edu.pk/iwiba-2024.php>.

For further Information, Please Contact:

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**APPLICATION
DEADLINE**

November 20, 2024