



International Workshop on Heavy Quark Physics





National Centre for Physics





Introduction

The "International Workshop on Heavy Quark Physics" is a joint activity of the National Centre for Physics (NCP), Quaid-i-Azam University, Islamabad, and the Institute of High Energy Physics (IHEP), Beijing, China. We are pleased to announce the 5th workshop of this series, which will be held in the period December 11 - 15, 2023, at the NCP, Islamabad.

Precision heavy flavor physics, being carried out with the help of a number of experiments at the Large Hadron Collider (LHC) at CERN and the high luminosity electron-positron colliders at KEK, and IHEP, will be the main focus of this workshop. Recent progress in the underlying theory will be reviewed, providing stringent tests of the standard model (SM) of particle physics and in searching for physics beyond the SM. The topics include, but are not limited to, the following: inclusive and exclusive heavy meson and baryon decays, higher-order quantum corrections, neutral meson mixing, CP violation, CKM matrix elements, heavy quark production, and physics of the multiquark states. In addition, selected aspects of the Quark-Gluon Plasma, being studied in heavy ion collisions will also be reviewed.

The research interest in heavy quark physics is grown progressively over the last few years in Pakistan and presently we have a sizable research community working at NCP and different universities of Pakistan. The purpose of this workshop is to encourage young Pakistani researchers and to facilitate them to build international collaborations. In this context, we plan to have 3/4 lectures on each of these topics. Detailed information can be found on the activity website: http://www.ncp.edu.pk/iwhqp-2023.php

Participation

Graduate, senior undergraduate students working in particle physics are particularly encouraged to apply and present poster presentations. Active post-doctoral researchers, faculty and research scientists who have published research work in recognized international journals, are encouraged to present their research in lectures and talks. Local hospitality will be provided to the participants, however, travel expenses of the participants should be borne by their home institutes.

How to apply

Online Registration Form can be accessed at the workshop webpage. Application Form should be submitted on or before <u>November 13, 2023</u> (for foreign participants) and <u>November 27 2023</u> (for local participants). Selection will be made by the Technical Committee of workshop. Selected applicants will be required to pay registration fee (Outstations: Rs. 2000/- Locals: Rs. 1500/-).

For Further Information, Please Contact:

Activity Secretariat: caad@ncp.edu.pk

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Russia)
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Key Speakers Ashfaq Ahmed (NCP, Pakistan) Ahmed Ali (DESY, Germany) M. Naeem Anwar (Swansea, UK) Peter Arnold (Uni. of Virginia, USA) Shahin Iqbal (NCP, Pakistan) Tim Gershon (Warwick University, UK) Aidos Issadykov (JINR, Russia) Andreas Kronfeld (Fermilab, USA) Peirong Li (BES III, China) Farvah Mahmoudi (University of Lyon, France) Altus Ozpineci (Middle East Tech. Uni. Turkey) Alexander Parkhomenko (Yaroslavl State University, Russia) Irina Paranova (Yaroslavl State University,

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Yu Ming Wang (Nankai Uni. China)
Urs Wiedemann (CERN, Switzerland)
Junhao Yin (Belle II, Japan)

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APPLICATION DEADLINE

Foreign Participants November 13, 2023 Local Participants November 27, 2023