

Session Program

19-22 Apr 2024



Workshop on Muon Physics at the Intensity and Precision Frontiers (MIP 2024)

Plenary-2

Peking University

Sunday 21 April

08:30

Plenary-2: Plenary-2a

Session | **Location:** Peking University | **Conveners:** Liangwen Chen, Yu Bao

08:30-08:55 **The Application of MuSR on the Study of Quantum Materials**

Speaker

Prof. Lei Shu

08:55-09:20 **MuSR study on the quantum magnetism of 2D frustrated compounds**

Speaker

Prof. Jie Ma

09:20-09:45 **Study of low energy cosmic-ray muons with a spin spectroscopy array**

Speaker

Mingchen Sun

09:45-10:10

Preliminary Study of Muon Beam CT and Integration of MuDirac and Geant4 for Muonic X-ray Simulation

Speaker

Zhihao Zhou

10:10-10:35

Exploring Exotic Spin-Dependent Interactions in Muons and Electrons Across Microscopic and Macroscopic Ranges

Speaker

Dr Haiyang Yan

10:40

11:00

Plenary-2: Plenary-2b

Session | **Location:** Peking University | **Conveners:** Zhengyun You, Lei Shu

11:00-11:25

The elemental investigation of dinosaur teeth by the Muon Induced X-ray Emission (MIXE) technique

Speaker

Dr Narongrit Ritjoho

11:25-11:50

Development of large area, high spatial resolution Micromegas detectors for muon tomography imaging

Speaker

Zhiyong Zhang

11:50-12:10

Application of muon imaging technology in archeology and mineral exploration

Speaker

Mr Kaiqiang Yao

12:30

12:10-12:30

A proposed PKU-Muon experiment for muon tomography and dark matter search

Speaker

Xudong Yu

13:30

Plenary-2: Plenary-2c

Session | Location: Peking University | Conveners: Chen Zhou, Yi Liao

13:30-13:55

Muons in Beauty/charm decays at LHCb

Speaker

Prof. Jibo He

13:55-14:20

Precision test of the weak interaction with slow muons

Speaker

Xin Chen

14:20-14:45

Search for Higgs boson decaying to muon pair at LHC

Speaker

Hongtao Yang

14:45-15:10

Progress of Muonium-to-Antimuonium Conversion Experiment (MACE)

Speaker

Shihan Zhao

15:10-15:35

Muon Beam for Neutrino CP Violation: connecting energy and neutrino frontiers

Speaker

Dr Alim Ruzi

15:40

16:00

Plenary-2: Plenary-2d

Session | Location: Peking University | Conveners: Qiang Li, Dayong Wang

16:00-16:25

Higgs self-coupling and Top Yukawa measurement through VBS in muon collider

Speaker

Junmou Chen

16:25-16:50

High-Energy Atmospheric Muon Study with the TRIDENT Neutrino Telescope

Speaker

Cen Mo

16:50-17:10

Transverse Spin Asymmetry as a New Probe of SMEFT Chirality-Flip Operators

Speaker

Mr Xin-Kai Wen

17:10-17:30

Study of Charged Lepton Flavor Violation at electron-muon collider

Speaker

Ran Ding

17:30-17:50

Searching for heavy neutral lepton and LNV through VBS at muon colliders

Speaker

Dr Man Yuan

17:50-18:10

Muonic X-ray track density imaging algorithm based on Geant4

Speaker

Mr Feng Chuntian

18:15