

## **Session Program**

**19-22 Apr 2024**



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

***Poster (For two days)***

Peking University

# Saturday 20 April

16:30

## Poster (For two days): Poster

Session | Location: Peking University

16:30–16:35

### Preliminary Design of a CsI(Tl) Calorimeter for Muonium-to-Antimuonium Conversion Experiment

**Speaker**

Siyuan Chen

16:35–16:40

### MuGrid: a novel plastic scintillator detector with light guide array and WLS fibers

**Speaker**

tao yu

16:40–16:45

### Validation of the Geant4-based Calorimeter Acceptance Model in Fermilab Muon g-2 Experiment

**Speaker**

Jun Kai Ng

16:45–16:50

### Muon Anomalous Frequency Analysis in the Muon g-2 Experiment at Fermilab

**Speaker**

Zeji Lu

16:50–16:55

### Optimization of the High-Repetition-Rate Pulsed Electron-Driven Muon Beamline based on SHINE Facility

**Speaker**

Fangchao Liu

16:55–17:00

### Anomalous Precession Frequency Analysis with a focus on the beam dynamics modelling in the Fermilab Muon g-2 Experiment

**Speaker**

Yonghao Zeng

17:00–17:05

### Muon yield estimation for the Beam Test at the SXFEL beam dump

**Speakers**

Jiangtao Wang, Mr Siyuan Chen, Mr liang Wang

17:05–17:10

### Development of fast electronics for the muon entrance detector of the PSI muEDM experiment

**Speaker**

Tianqi Hu

17:10–17:15

### Development of Fast HV Electronics for a Spark Chamber

**Speaker**  
Xingyun Huang

17:15–17:20 **Design and Construction of a Spark Chamber**

**Speaker**  
Yimin Wan

17:20–17:25 **Beam Injection and Storage Study for the muEDM Experiment at PSI**

**Speaker**  
Yuzhi Shang

17:25–17:30

**The first search for the weak interaction between muon and charmonium**

**Speaker**  
Zhijun Li

17:30–17:35 **Solenoid Design for Muonium to Antimuonium Conversion Experiment**

**Speaker**  
Mr Gui-Hao Lu

17:35–17:40

**Search for R-parity Violation induced Charged Lepton Flavor Violation at future lepton colliders**

**Speaker**  
Xunye Cai

17:40–17:45 **Searching for Majorana neutrinos at a same-sign muon collider**

**Speaker**  
Ruobing Jiang

17:45–17:50

**Investigating the Correlation Between Muon Flux Variations and Atmospheric Conditions**

**Speaker**  
Jiayi Hao

17:50–17:55 **Neutrino Neutrino Collisions**

**Speakers**  
Leyun Gao, Leyun Gao

17:55–18:00

**Towards a muon scattering tomography system for both low-Z and high-Z materials**

**Speaker**  
Huiling Li

18:00–18:05

**Preliminary Conceptual Design of Proton Charge Radius Experiment using Future Muon Beam at CiADS**

**Speaker**  
YUAN LI

18:05-18:10

**Simulation study of the liquid lithium target for the CiADS muon source****Speaker**

Mr Niu Jianwei

18:10-18:15

**First-principles study of quantized muons in materials****Speaker**

Li Deng

18:15-18:20

**A new muon transmission imaging algorithm****Speaker**

Ms Guorui Liu

18:20-18:25

**Design of a segmented high purity germanium detector for muonic X-ray spectroscopy and imaging at a pulsed muon source****Speaker**

Mr Mingxin Yang

18:25-18:30

**Research on static detection of ICF targets based on muonic X-ray encoded imaging****Speaker**

Dikai Li

18:30-18:35

**Research on a novel cosmic ray muon imaging system based on plastic scintillation****Speaker**

Mr Siyuan Luo

18:35-18:40

**Preliminary Progress of Dark Matter Exploration with RPCs-based Muon Scattering Imaging System****Speakers**

Mr Cheng-en Liu, Yiqing Feng

23:30