

# **Workshop on Muon Science Technology and Industry**

## **Report of Contributions**

Contribution ID: 22

Type: **not specified**

## Registration

Contribution ID: 23

Type: **not specified**

## Opening remarks

*Saturday, 4 November 2023 09:00 (10 minutes)*

**Presenter:** Dr LIANG, Tianjiao (CSNS)

Contribution ID: 24

Type: **not specified**

## CSNS accelerator system and upgrade

*Saturday, 4 November 2023 09:10 (25 minutes)*

**Presenter:** Dr LIU, Huachang (高能所)

Contribution ID: 25

Type: **not specified**

## Design of MELODY and future

*Saturday, 4 November 2023 09:35 (35 minutes)*

**Presenter:** Dr BAO, Yu (CSNS)

Contribution ID: 26

Type: **not specified**

## **Prospects for a kHz-MHz repetition rate pulsed muon beam in the Shanghai SHINE facility**

*Saturday, 4 November 2023 10:10 (35 minutes)*

**Presenter:** Prof. KHAW, Kim Siang (SJTU)

Contribution ID: 27

Type: **not specified**

## Coffe Break & Photo

*Saturday, 4 November 2023 10:45 (20 minutes)*

Contribution ID: 28

Type: **not specified**

## **An efficient high power proton accelerator and its possible muon application**

*Saturday, 4 November 2023 11:05 (35 minutes)*

**Presenter:** ZHANG, Tianjue



Contribution ID: 29

Type: **not specified**

## CiADS and Its Plan of Muon Source

*Saturday, 4 November 2023 11:40 (35 minutes)*

**Presenter:** Dr HE, Yuan

Contribution ID: **30**

Type: **not specified**

## Lunch

*Saturday, 4 November 2023 12:15 (1h 30m)*

Contribution ID: **31**

Type: **not specified**

## **Muon particle physics experiments**

*Saturday, 4 November 2023 13:45 (35 minutes)*

**Presenter:** Prof. KUNO, Yoshitaka

Contribution ID: 32

Type: **not specified**

## **New Physics Potential from Muon g-2 Experiment at Fermilab**

*Saturday, 4 November 2023 14:20 (35 minutes)*

**Presenter:** Prof. LI, Liang (SJTU)

Contribution ID: 33

Type: **not specified**

## **The nuts and bolts of muon precession frequency measurements in the Fermilab Muon g-2 experiment**

*Saturday, 4 November 2023 14:55 (35 minutes)*

**Presenter:** Prof. KHAW, Kim Siang (SJTU)

Contribution ID: **34**

Type: **not specified**

## Coffe Break

*Saturday, 4 November 2023 15:30 (15 minutes)*

Contribution ID: 35

Type: **not specified**

## **Studies on 3D spiral injection for compact storage rings**

*Saturday, 4 November 2023 15:45 (25 minutes)*

Withdrawn

**Presenter:** Dr REHMAN, Muhammad Abdul (高能所)

Contribution ID: 36

Type: **not specified**

## **Searching for a permanent muon electric dipole moment in the PSI muEDM experiment**

*Saturday, 4 November 2023 16:10 (30 minutes)*

**Presenter:** Prof. KHAW, Kim Siang



Contribution ID: 37

Type: **not specified**

## **Status of the COMET Experiment at J-PARC**

*Saturday, 4 November 2023 16:40 (25 minutes)*

**Presenter:** Dr WU, Chen

Contribution ID: **38**

Type: **not specified**

## **DISCUSSION:Muon particle physics in future facilities**

*Saturday, 4 November 2023 17:05 (25 minutes)*

Contribution ID: 39

Type: **not specified**

## History of muSR

*Sunday, 5 November 2023 09:00 (35 minutes)*

**Presenter:** Dr BREWER, Jess

Contribution ID: 40

Type: **not specified**

## **muSR Investigation of Bulk Form Magnetic Semiconductors**

*Sunday, 5 November 2023 09:35 (30 minutes)*

**Presenter:** Prof. NING, Fanlong

Contribution ID: 41

Type: **not specified**

# Exploration of quantum spin liquid ground state by MuSR

*Sunday, 5 November 2023 10:05 (30 minutes)*

**Presenter:** Prof. SHU, Lei

Contribution ID: 42

Type: **not specified**

## Coffe Break

*Sunday, 5 November 2023 10:35 (15 minutes)*

Contribution ID: 43

Type: **not specified**

## **Surface muon beamline and sample environments at J-PARC MLF**

*Sunday, 5 November 2023 10:50 (35 minutes)*

**Presenter:** Dr KODA, Akihiro

Contribution ID: 44

Type: **not specified**

## **MuSR study on the magnetism frustrated systems with triangular lattice and honeycomb lattice**

*Sunday, 5 November 2023 11:25 (30 minutes)*

**Presenter:** LIN, Gaoting



Contribution ID: 46

Type: **not specified**

## Lunch

*Sunday, 5 November 2023 12:25 (1h 35m)*

Contribution ID: 47

Type: **not specified**

## Status of the Swiss Muon Source

*Sunday, 5 November 2023 14:00 (35 minutes)*

**Presenter:** PROKSCHA, Thomas

Contribution ID: 48

Type: **not specified**

## The ultra-slow muon facility at J-PARC MUSE

*Sunday, 5 November 2023 14:35 (25 minutes)*

**Presenter:** KANDA, Sohtaro

Contribution ID: 49

Type: **not specified**

## Muon cooling based on frictional cooling

*Sunday, 5 November 2023 15:00 (25 minutes)*

CSNS Beam Expanded Applications Group

**Presenter:** Dr LI, Yang (高能所)

Contribution ID: 50

Type: **not specified**

## Coffee Break

Contribution ID: 51

Type: **not specified**

## Target design of MELODY

**Presenter:** LIU, Lei

Contribution ID: 52

Type: **not specified**

## Beamline design of MELODY

**Presenter:** Dr LIU, Guangdong (高能所)

Contribution ID: 53

Type: **not specified**

## Beam measurement of MELODY

**Presenter:** Dr LV, You



Contribution ID: 54

Type: **not specified**

## Spectrometer design of MELODY

**Presenter:** Dr LI, Qiang (高能所)

Contribution ID: 55

Type: **not specified**

## **DISCUSSION: muSR applications for MELODY**

Contribution ID: 56

Type: **not specified**

## **The ISIS muon facility now and into the future**

*Monday, 6 November 2023 16:30 (25 minutes)*

**Presenter:** Dr STEWART, Rhea (ISIS)

Contribution ID: 57

Type: **not specified**

## The muon facility of MLF J-PARC

*Monday, 6 November 2023 09:00 (35 minutes)*

**Presenter:** Dr KAWAMURA, Naritoshi

Contribution ID: 59

Type: **not specified**

## Coffee Break

*Monday, 6 November 2023 10:35 (15 minutes)*

Contribution ID: **60**

Type: **not specified**

## **Physical design of a novel MuMubar spectrometer**

*Monday, 6 November 2023 10:10 (25 minutes)*

**Presenter:** Dr GUO, Yuhang (CSNS)

Contribution ID: 61

Type: **not specified**

## **Simulation study of imaging widgets with CSNS muon beam**

*Monday, 6 November 2023 11:15 (25 minutes)*

**Presenter:** Prof. HU, Jifeng

Contribution ID: 62

Type: **not specified**

## **Feasibility study and preliminary test of a coded aperture based muonic x-ray element imaging method**

*Monday, 6 November 2023 09:35 (35 minutes)*

**Presenter:** PAN, Ziwen (University of Science and Technology of China)



Contribution ID: **63**

Type: **not specified**

## Lunch

*Monday, 6 November 2023 12:05 (1h 55m)*

Contribution ID: 64

Type: **not specified**

## **MuSR as a primary tool to search for superconductors with broken time-reversal symmetry**

*Monday, 6 November 2023 14:00 (30 minutes)*

**Presenter:** Dr GRINENKO, Vadim (SJTU)

Contribution ID: 65

Type: **not specified**

## **Neutron diffraction and muSR studies on several quantum magnetic systems**

*Monday, 6 November 2023 14:30 (30 minutes)*

**Presenter:** Dr LI, Shiliang (Institute of Physics, Chinese Academy of Sciences)

Contribution ID: 67

Type: **not specified**

## **Study of metal halide perovskite materials by low energy uSR**

*Monday, 6 November 2023 16:00 (30 minutes)*

**Presenter:** Dr NI, Xiaojie (USTC)

Contribution ID: **68**

Type: **not specified**

## Coffee Break

*Monday, 6 November 2023 15:30 (30 minutes)*

Contribution ID: 69

Type: **not specified**

## **Development and experimental study of the high spatial resolution muon imaging prototypes with Micromegas detectors**

*Monday, 6 November 2023 11:40 (25 minutes)*

**Presenter:** Dr WANG, Yu

Contribution ID: 70

Type: **not specified**

## **R&D of cosmic muon imaging based on RPC**

*Monday, 6 November 2023 10:50 (25 minutes)*

**Presenter:** Prof. LI, Qite

Contribution ID: 71

Type: **not specified**

## **DISCUSSION: multidisciplinary applications**

*Monday, 6 November 2023 16:55 (35 minutes)*



Contribution ID: 72

Type: **not specified**

## Coffee Break

*Sunday, 5 November 2023 15:25 (15 minutes)*

Contribution ID: 73

Type: **not specified**

## Target design of MELODY

*Sunday, 5 November 2023 15:40 (25 minutes)*

**Presenter:** LIU, Lei

Contribution ID: 74

Type: **not specified**

## Beamline design of MELODY

*Sunday, 5 November 2023 16:05 (25 minutes)*

**Presenter:** Dr LIU, Guangdong

Contribution ID: 75

Type: **not specified**

## Beam measurement of MELODY

*Sunday, 5 November 2023 16:30 (25 minutes)*

**Presenter:** Dr LV, You

Contribution ID: 76

Type: **not specified**

## Spectrometer design of MELODY

*Sunday, 5 November 2023 16:55 (25 minutes)*

**Presenter:** Dr LI, Qiang (高能所)

Contribution ID: 77

Type: **not specified**

## **DISCUSSION: muSR applications for MELODY**

*Sunday, 5 November 2023 17:20 (25 minutes)*

Contribution ID: 78

Type: **not specified**

## **Persistent spin dynamics in magnetically ordered honeycomb cobalt oxides**

*Monday, 6 November 2023 15:00 (30 minutes)*

**Presenter:** Dr MIAO, Ping

Contribution ID: 80

Type: **not specified**

## **Investigating the electronic correlated materials using muon spin spectroscopy**

*Sunday, 5 November 2023 11:55 (30 minutes)*

**Presenter:** Prof. SHANG, Tian (ECNU)