

BRIDGE2023



Report of Contributions

Contribution ID: 1

Type: **Oral**

Updates from JP

Wednesday, 18 October 2023 09:00 (30 minutes)

Presenter: SHIMOMURA, koichiro (KEK IMSS)

Session Classification: Updates from Labs

Contribution ID: 2

Type: **Oral**

Updates from CH

Wednesday, 18 October 2023 09:30 (30 minutes)

Presenter: AMATO, Alex (PSI - Paul Scherrer Institut)

Session Classification: Updates from Labs

Contribution ID: 3

Type: **Oral**

Struggle to Produce Muons with Teachers and Friends

Wednesday, 18 October 2023 11:00 (30 minutes)

Presenter: MAKIMURA, Shunsuke (J-PARC, KEK)

Session Classification: Targets

Contribution ID: 4

Type: **Oral**

Muon Targets at HIPA

Wednesday, 18 October 2023 11:30 (30 minutes)

After a short introduction of the High Intensity Proton Accelerator (HIPA) facility, design and features of the currently employed muon targets, TgM and TgE, will be presented along with the plans to exchange TgM with the new and more powerful TgH in the framework of the IMPACT (Isotope and Muon Production using Advanced Cyclotron and Target technology) project. The final part of the presentation will be devoted to the remote handling concept of radioactive targets

Presenter: REGGIANI, Davide (PSI - Paul Scherrer Institut)

Session Classification: Targets

Contribution ID: 5

Type: **Oral**

Irradiation studies for spallation target applications

Wednesday, 18 October 2023 12:00 (30 minutes)

Presenter: DAI, Yong (Paul Scherrer Institut)

Session Classification: Targets

Contribution ID: 6

Type: **Tour**

Facility tours 1

Wednesday, 18 October 2023 14:30 (1 hour)

Session Classification: Facility tours

Contribution ID: 7

Type: **Tour**

Facility tours 2

Wednesday, 18 October 2023 16:00 (1 hour)

Session Classification: Facility tours

Contribution ID: 8

Type: **Poster**

Poster session

Wednesday, 18 October 2023 17:30 (2 hours)

Contribution ID: 9

Type: **Oral**

Overview of the muon facility in MLF J-PARC

Thursday, 19 October 2023 08:30 (30 minutes)

Presenter: KAWAMURA, Naritoshi (KEK)

Session Classification: Muon facilities

Contribution ID: 10

Type: **Oral**

PSI muon beamlines update

Thursday, 19 October 2023 09:00 (30 minutes)

Presenter: PROKSCHA, Thomas (PSI - Paul Scherrer Institut)

Session Classification: Muon facilities

Contribution ID: 11

Type: **Oral**

High pressure sample environment

Thursday, 19 October 2023 09:30 (30 minutes)

Presenter: KHASANOV, Rustem (PSI - Paul Scherrer Institut)

Session Classification: Muon facilities

Contribution ID: 12

Type: **Oral**

Muon Microscopes

Thursday, 19 October 2023 11:00 (30 minutes)

Concept, goals, technology and current status of muon microscopes are introduced. We are constructing Transmission Muon Microscopy, Scanning positive muon microscopy, and Scanning negative muon microscopy. In this talk, I mainly report the Transmission Muon Microscope.

Presenter: NAGATANI, Yukinori (KEK, IMSS)

Session Classification: Muonic X-rays

Contribution ID: 13

Type: **Oral**

Developments on Muonic X-Ray Measurement Systems for Historical-Cultural Heritage Samples in J-PARC

Thursday, 19 October 2023 11:30 (30 minutes)

Presenter: TAMPO, Motonobu (RCNP Osaka University)

Session Classification: Muonic X-rays

Contribution ID: 14

Type: **Oral**

MIXE @ PSI: Measurement System Overview and New Developments

Thursday, 19 October 2023 12:00 (30 minutes)

Presenter: HEISS, Michael (PSI - Paul Scherrer Institut)

Session Classification: Muonic X-rays

Contribution ID: 15

Type: **Oral**

Advanced instrumentations with neutron optical devices at J-PARC and on-going collaborations with PSI

Thursday, 19 October 2023 15:00 (30 minutes)

Presenter: YAMADA, Masako (KEK/J-PARC)

Session Classification: Neutron Instrumentation

Contribution ID: 16

Type: **Oral**

Neutron optics and 3D printing developments at PSI

Thursday, 19 October 2023 14:30 (30 minutes)

Presenter: FILGES, Uwe (PSI - Paul Scherrer Institut)

Session Classification: Neutron Instrumentation

Contribution ID: 17

Type: **Oral**

Detector technologies in searches for charged lepton flavour violation at PSI

Thursday, 19 October 2023 16:00 (30 minutes)

Presenter: GERRITZEN, Lukas (University of Tokyo)

Session Classification: Detectors

Contribution ID: 18

Type: **Oral**

Neutron Detectors, from Fast to Ultra-Cold

Thursday, 19 October 2023 16:30 (30 minutes)

Presenter: MISHIMA, Kenji (KEK)

Session Classification: Detectors

Contribution ID: 19

Type: **Oral**

Detectors used at CHRISP and SINQ - insights into different technologies

Thursday, 19 October 2023 17:00 (30 minutes)

Presenter: HILDEBRANDT, Malte (PSI - Paul Scherrer Institut)

Session Classification: Detectors

Contribution ID: 20

Type: **Oral**

Q & A and work in subgroups

Friday, 20 October 2023 10:00 (3 hours)

Infrastructure, Particle Physics, muSR, UCN?

Session Classification: Subgroups

Contribution ID: 21

Type: **Oral**

Wrap-up session

Friday, 20 October 2023 14:30 (1 hour)

Presenters: LAUSS, Bernhard (PSI - Paul Scherrer Institut); KISELEV, Daniela (PSI - Paul Scherrer Institut); SCHMIDT-WELLENBURG, Philipp (PSI - Paul Scherrer Institut); PROKSCHA, Thomas (PSI - Paul Scherrer Institut); MIBE, Tsutomu (KEK)

Session Classification: Wrap-up session

Contribution ID: 22

Type: **not specified**

The First Result of MEG II on Search for $\mu \rightarrow e + \gamma$

Friday, 20 October 2023 09:00 (1 hour)

The MEG II Collaboration will present the first result of its search for the flavor-violating muon decay, $\mu \rightarrow e + \gamma$. MEG II, the upgrade of MEG, started physics data taking in late 2021 and is continuing to accumulate data to search for the lepton-flavor-violating muon decay with a target sensitivity of 6×10^{-14} at 90% C.L., i.e., an order of magnitude improvement over MEG.

The upgraded detectors (the 2.7-ton liquid xenon photon detector, the cylindrical drift chamber, and the pixelated timing counters), together with the new radiative decay counter, provide larger acceptance, increased granularity and better resolutions, allowing to deal with higher background rates than the previous MEG detectors.

The result of the analysis of the data taken in 2021, which has a sensitivity close to the final MEG result, will be presented. By today, more than 10 times larger data sample than 2021 has already been accumulated. Future plan of the experiment will also be discussed.

Presenter: Prof. MORI, Toshinori (The University of Tokyo)

Session Classification: MEG II