Session Program

Sep 5 – 6, 2024

Muon User Meeting - 2024

Science Session

The Cosener's House, The Garden Room
15 - 16 Abbey Close, Abingdon, Oxfordshire, OX14 3JD

Thu, September 5

11:00 AM

Science Session: Session 1

Session |
Location: The Cosener's House, The Garden Room, 15 - 16 Abbey Close, Abingdon, Oxfordshire, OX14 3JD |
Convener: Dr Francis Pratt

11:00 – 11:25 AM **Revisiting µSR results in MnO**

Speaker
Pietro Bonfa

11:25 – 11:50 AM
Manipulating and probing quantum states with RF muon spectroscopy

Speaker
Sean Giblin

11:50 AM – 12:15 PM
An example to use DFT and muSR to real electronic states of La2CuO4

Speaker
Isao watanabe

12:15 – 12:40 PM **Photo-MuSR and semiconductors: Recent developments**

Speaker
Rick (P.W.) Mengyan

12:40 PM

2:00 PM

Science Session: Early Career Presentations

Session |
Location: The Cosener's House, The Garden Room, 15 - 16 Abbey Close, Abingdon, Oxfordshire, OX14 3JD |
Convener: Mark Telling

2:00 – 2:15 PM
Formation and annihilation of bulk recombination-active defects induced by muon irradiation of crystalline silicon

Speaker
Ms Anup Yadav

2:15 – 2:30 PM
Enhanced Fluctuations in the Quantum Kagome Antiferromagnet Yttrium Kapellasite ($Y_3Cu_9(OH)_19Cl_8$) under Pressure

Speaker
Dr Dipranjan Chatterjee

2:30 – 2:45 PM **Muonic Cascade Calculations**

Speaker
Mr Philip Jones

2:45 – 3:00 PM
Magnetism of V_{1/3}NbS_2: insight into an intercalated transition-metal dichalcogenide using µSR

Speaker
Mr Nathan Bentley

3:00 – 3:15 PM

First principal calculation of the magnetic properties and muon stopping site in metal oxide with different Electronic correlational Functionals

Speaker
Ms Supparat Charoenphon

3:15 – 3:30 PM **Using simulations to inform muSR data analysis**

Speaker
Ms Paula Mpembe Franco

3:30 – 3:45 PM **Introduction to the Comms Team**

Speaker
Rosie de Laune

3:45 PM

Fri, September 6

9:30 AM

Science Session: Session 2

Session |
Location: The Cosener's House, The Garden Room, 15 - 16 Abbey Close, Abingdon, Oxfordshire, OX14 3JD |
Convener: Peter Baker

9:30 – 9:55 AM **Applications of MSCP's tools**

Speaker
Dr Leandro Liborio

9:55 – 10:20 AM
μSR studies of the metal-organic-framework kagome quantum spin liquid Cu3(HOTP)2

Speaker
Dr Francis Pratt

10:20 – 10:45 AM **Study of Muon Dynamics in Battery Materials**

Speaker
Irwan Ramli

10:45 – 11:10 AM
DNA through the Eyes of Computational Chemistry and Muon Science

Speaker
Wan Nurfadhilah Zaharim

11:10 AM

11:30 AM

Science Session: Session 3

Session |
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Convener: Sayani Biswas

11:30 – 11:55 AM **Measuring the muonic hydrogen hyperfine splitting with FAMU**

Speaker
Dr Cecilia Pizzolotto

11:55 AM – 12:20 PM
Measurement of radio-isotope production probability by muon capture using in-beam activation method

Speaker
Prof. Megumi Niikura

12:20 – 12:45 PM **PCA for Muons: why and how**

Speaker
Jorge Quintanilla

12:45 PM

1:45 PM

Science Session: Session 4

Session |
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Convener: Adam Berlie

1:45 – 2:10 PM

A muSR study of ion dynamics in hybrid perovskites under illumination

Speaker
Konstantinos Papadopoulos

2:10 – 2:35 PM

muSR with microwave excitation

Speaker
Andrin Doll

2:35 – 3:00 PM

Establishing the limitations of photoexcited muon spin spectroscopy

Speaker
Sophie Pain

3:00 PM