



# 16th International Conference on Muon Spin Rotation, Relaxation and Resonance ( $\mu$ SR2025)

## Monday, 21 July 2025

### Oral Contributions (09:20 - 10:20)

-Conveners: Graeme Luke

time	[id] title	presenter
09:20	[82] Hyperfine-Enhancement as a Route to Persistent Spin Dynamics in Singlet-State Systems	BLUNDELL, Stephen
09:40	[33] Exploring Topological Magnetic Excitations with Combined $\mu$ SR, Muon Site Calculations and Simulation	LANCASTER, Tom
10:00	[66] Mn Antisites and Order-Disorder Transition in the $(\text{MnBi}_2\text{Te}_4)(\text{Bi}_2\text{Te}_3)_n$ Magnetic Topological Insulators	ONUORAH, Ifeanyi John

### Oral Contributions (10:40 - 12:00)

-Conveners: Michael Graf

time	[id] title	presenter
10:40	[17] Spin Liquid Properties of a Spin 1/2 Kagome Metal-Organic Framework Compound	PRATT, Francis
11:00	[110] Proximal Quantum Spin Liquid in One-Dimensional Spin-1/2 Metal $\text{Ti}_4\text{MnBi}_2$	Dr LI, Xiyang
11:20	[128] Detection of Spin State Ordering Phenomena in Mn(III) Spin Crossover Solids by Muon Spin Relaxation	MORGAN, Grace
11:40	[102] Anomalous Temperature Dependence of Local Magnetic Fields in Altermagnetic MnTe	KRIEGER, Jonas A.

### Oral Contributions (13:10 - 14:30)

-Conveners: Jun Sugiyama

time	[id] title	presenter
13:10	[126] $\mu$ +SR for a Sustainable Society	MANSSON, Martin
13:30	[25] Observation of Na and Li Ion Diffusion in Battery Materials $\text{NaCrO}_2$ and $\text{LiCrO}_2$ by $\mu$ SR	UMEGAKI, Izumi
13:50	[19] Operando $\mu$ SR and SANS Experiments on Battery Materials	OHISHI, Kazuki
14:10	[91] Operando $\mu$ SR Experiments on Palladium Hydride	Prof. KODA, Akihiro

# Tuesday, 22 July 2025

## Oral Contributions (11:00 - 12:00)

-Conveners: Peter Baker

time	[id] title	presenter
11:00	[124] Depth-Resolved $\mu$ SR Using Ultra-Slow Muons at J-PARC MUSE	KANDA, Sohtaro
11:20	[21] Transmission Muon Microscopy and Scanning $\mu$ SR Microscopy	Prof. NAGATANI, Yukinori
11:40	[45] Advanced Muon-Spin Spectroscopy Using Si-Pixel Detectors - A New Dawn for $\mu$ SR	ISENRING, Pascal

## Oral Contributions (13:40 - 14:40)

-Conveners: Stephen Blundell

time	[id] title	presenter
13:40	[105] Time-Reversal Symmetry Breaking Superconductivity in HfRhGe: A Noncentrosymmetric Weyl Semimetal	HILLIER, Adrian
14:00	[103] To Be or Not To Be: Time-Reversal Symmetry Breaking Superconductivity in Sr <sub>2</sub> RuO <sub>4</sub>	KLAUSS, Hans-Henning
14:20	[80] Discovery of Charge Order and Time-Reversal Symmetry-Breaking in the Kagome Superconductor YRu <sub>3</sub> Si <sub>2</sub>	KRÁL, Petr

## Oral Contributions (15:00 - 15:40)

-Conveners: Adrian Hillier

time	[id] title	presenter
15:00	[30] Non-Destructive Analysis of Bronze Heritages Using Muon Induced X-rays in J-PARC	TAMPO, Motonobu
15:20	[81] Muon-Induced X-ray Emission (MIXE) at PSI: Technique and Applications	HEISS, Michael

# Wednesday, 23 July 2025

## Oral Contributions (09:20 - 10:20)

-Conveners: Hans-Henning Klauss

time	[id] title	presenter
09:20	[98] Probing Spin Dynamics in Rare-Earth Triangular Lattices $\text{YbZn}_{1/2}\text{GaO}_5$ and $\text{NdMgAl}_{11}\text{O}_{19}$	WU, Hank
09:40	[87] Magnetic and Charge Density Wave Order in $\text{La}_3\text{Ni}_2\text{O}_7$ , $\text{La}_2\text{PrNi}_2\text{O}_7$ , and $\text{La}_4\text{Ni}_3\text{O}_{10}$ as a Function of Pressure and Oxygen-Isotope Substitution	HICKEN, Thomas
10:00	[51] Contrasting c-Axis and In-Plane Uniaxial Stress Effects on Superconductivity and Stripe Order in $\text{La}_{1.885}\text{Ba}_{0.115}\text{CuO}_4$	Dr ISLAM, Shams Sohel

## Oral Contributions (10:40 - 11:40)

-Conveners: Roberto De Renzi

time	[id] title	presenter
10:40	[73] Muon Knight Shift as a Precise Probe of the Superconducting Symmetry of $\text{Sr}_2\text{RuO}_4$	MATSUKI, Hisakazu
11:00	[26] Detecting Nematic Superconductivity via $\mu$ SR: Theory and Experiment	SHIROKA, Toni
11:20	[58] Field-Orientation-Dependent Magnetic Phases in $\text{GdRu}_2\text{Si}_2$ Probed with Muon-Spin Spectroscopy	Dr HUDDART, Benjamin

# Thursday, 24 July 2025

## Oral Contributions (09:00 - 10:20)

-Conveners: Khashayar Ghandi

time	[id] title	presenter
09:00	[38] Multi-Quantum Spectroscopy of Anisotropic Muonium	DOLL, Andrin
09:20	[77] Microwave Spectroscopy of the Muonium State in BeO	LORD, James
09:40	[15] Non-Destructive Depth-Selective Quantification for Carbon in Steel Using Negative Muon Lifetime Analysis	NINOMIYA, Kazuhiko
10:00	[96] An RF- $\mu$ SR Study of the 2-Norbornyl Radical in Norbornene	Dr COTTRELL, Stephen

## Oral Contributions (13:40 - 14:40)

-Conveners: Tom Lancaster

time	[id] title	presenter
13:40	[100] Revealing the Superconducting Gap Structure in Kagome Metals via $\mu$ SR and Complementary Techniques	Dr GRAHAM, Jennifer
14:00	[44] Towards Fluctuating Magnetism in Zn-Doped Averievite with Well-Separated Kagome Layers	SIMUTIS, Gediminas
14:20	[36] Anomalous Muon Dynamics in Multifunctional Antiferromagnet MnTe	FRANDSEN, Benjamin

## Oral Contributions (15:00 - 15:40)

-Conveners: Sarah Dunsiger

time	[id] title	presenter
15:00	[86] Interfaces of Molecular Magnets and Superconductors	Dr SALMAN, Zaher
15:20	[85] Observation of Charge Carrier Manipulation with Nanometer Depth Resolution at Semiconductor-Oxide Interfaces	PROKSCHA, Thomas

# Friday, 25 July 2025

## Oral Contributions (09:30 - 10:30)

-Conveners: Graeme Luke

time	[id] title	presenter
09:30	[78] Preformed Magnetic Clusters in the Paramagnetic Phase of a High-Temperature Ferromagnetic Metal-Organic Framework	Prof. PRANDO, Giacomo
09:50	[115] Suppression of Antiferromagnetism under High Pressure in Organic Magnet $\lambda$ -(BEDSe-TTF) $_2$ GaCl $_4$	HIGEMOTO, Wataru
10:10	[54] CsNiCrF $_6$ : A Model System for Studying 1D Spin Dynamics with Muons	WILKINSON, John

## Oral Contributions (10:50 - 11:30)

-Conveners: Hubertus Luetkens

time	[id] title	presenter
10:50	[74] $\mu$ SR study of the multiferroic BiFeO $_3$ at high temperatures	OKABE, Hirotaka
11:10	[109] $\mu$ SR Observation of Anisotropic Skyrmion and Meron Spin Dynamics in Centrosymmetric Gd $_2$ PdSi $_3$	WILSON, Murray