

15th International Conference on Muon Spin Rotation, Relaxation and Resonance

Monday, 29 August 2022

Oral contributions: Spin liquids and related phenomena I (10:40 - 11:40)

-Conveners: Thomas Prokscha

time	[id] title	presenter
10:40	[264] Role of Many-Body Quantum Effects in μ SR Measurements	GOMILŠEK, Matjaž
11:00	[226] Studying spin diffusion and quantum entanglement with LF- μ SR	Dr PRATT, Francis
11:20	[199] Exploring magnetic interactions in Kitaev anti-ferromagnet Na_2PrO_3	FRASSINETI, Jonathan

Oral contributions: Strongly correlated electron systems I (12:20 - 12:40)

-Conveners: Pietro Carretta

time	[id] title	presenter
12:20	[267] Studying the evolution of the metallic state in LaNiO_3 from a single crystal to superlattices with β -detected NMR	Prof. MACFARLANE, W. Andrew

Oral contributions: Superconductivity I (14:40 - 15:40)

-Conveners: Pierre Dalmas de Reotier

time	[id] title	presenter
14:40	[137] Time-reversal symmetry-breaking charge order in a kagome superconductor	Dr GUGUCHIA, Zurab
15:00	[189] Two-component superconductivity in Sr_2RuO_4 studied by uniaxial and hydrostatic pressure μ SR	KLAUSS, Hans-Henning
15:20	[239] Ubiquitous Spin Freezing in Spin-Triplet Superconductor UTe_2	Prof. SONIER, Jeff

Oral contributions: Muonic X-rays (16:00 - 17:20)

-Conveners: Jun Sugiyama

time	[id] title	presenter
16:00	[217] Negative muons for the characterization of thin layers in Cultural Heritage artefacts	CATALDO, Matteo
16:20	[106] Non-destructive operando measurements of muonic x-rays on Li-ion battery	Dr UMEGAKI, Izumi
16:40	[183] Developments on muonic X-ray measurement system for historical-cultural heritage samples in Japan Proton Accelerator Research Complex (J-PARC)	TAMPO, Motonobu
17:00	[263] Muon-Induced X-ray Emission (MIXE) at PSI	Dr BISWAS, Sayani

Tuesday, 30 August 2022

Oral contributions: Molecular chemistry and chemical physics I (09:40 - 10:20)

-Conveners: Stefano Carretta

time	[id] title	presenter
09:40	[256] Spin dynamics of V-based molecular magnets with integer spin values	Prof. LASCIALFARI, Alessandro
10:00	[244] Ultrafast molecular rotors in metal-organic frameworks: a combined $^1\text{H-NMR}$ and μSR study	Dr PRANDO, Giacomo

Oral contributions: Energy materials (11:30 - 13:10)

-Conveners: Mauro Riccò

time	[id] title	presenter
11:30	[225] H ₂ storage mechanism in fullerides studied with μSR	PONTIROLI, Daniele
11:50	[144] Low energy muon study of the p-n interface in chalcopyrite solar cells	VIEIRA ALBERTO, Helena
12:10	[102] Negative muon spin rotation and relaxation for energy materials	Dr SUGIYAMA, Jun
12:30	[191] New insights into the photochromism of yttrium oxyhydride thin films from in-situ muon spin rotation (μSR) and positron annihilation spectroscopy (PAS) studies	Dr EIJT, Stephan
12:50	[277] Ion Diffusion in Na-ion Battery Cathode Material $\text{Na}_{0.5}\text{Mg}_x\text{Ni}_{0.17-x}\text{Mn}_{0.83}\text{O}_2$	MANSSON, Martin

Wednesday, 31 August 2022

Oral contributions: Strongly correlated electron systems II (Hybrid) (09:00 - 10:00)

-Conveners: Amit Keren

time	[id] title	presenter
09:00	[269] Discovery of Hidden Charge-Neutral Muon Centers in Magnetic Materials: Implications and Applications	DEHN, Martin
09:20	[166] From μ SR spectra to the magnetic interaction energy parameters: the MnSi helimagnet as a test case	Dr DALMAS DE REOTIER, Pierre
09:40	[182] Insights into skyrmion-hosting materials from implanted muons	LANCASTER, Tom

Oral contributions: Site calculations I (10:00 - 10:40)

-Conveners: Jorge Quintanilla

time	[id] title	presenter
10:00	[209] Quantum Information: How does it μ ve through fluorides?	WILKINSON, John
10:20	[320] Insights into the magnetic ground state of Fe $_2$ P from μ SR, NMR and DFT perspectives	Dr ONUORAH, Ifeanyi John

Oral contributions: Site calculations II (Hybrid) (11:00 - 12:00)

-Conveners: Isao watanabe

time	[id] title	presenter
11:00	[177] MuSpinSim: spin dynamics calculations for muon science.	LIBORIO, Leandro
11:20	[270] Entanglement between muon and $I > 1/2$ nuclear spins as a probe of charge environment	BONFÀ, Pietro
11:40	[187] What can we learn from muon-stopping site analysis?	Dr HUDDART, Benjamin

Oral contributions: Spin liquids and related phenomena II (Hybrid) (12:40 - 13:00)

-Conveners: Philippe Mendels

time	[id] title	presenter
12:40	[155] Quantum spin liquid behavior in geometrically frustrated Mo pyrochlore antiferromagnet Lu $_2$ Mo $_2$ O $_5$	Dr DEY, Sourav K. Prof. KADONO, Ryosuke

Thursday, 1 September 2022

Oral contributions: Spin liquids and related phenomena III (09:40 - 10:20)

-Conveners: Toni Shiroka

time	[id] title	presenter
09:40	[238] Universal fluctuating regime in triangular chromate pure Heisenberg S=3/2 antiferromagnets	MENDELS, Philippe
10:00	[290] Searching for Spin Liquids in Buckled Compounds	DUNSIGER, Sarah

Oral contributions: Superconductivity (11:20 - 13:00)

-Conveners: Samuele Sanna

time	[id] title	presenter
11:20	[129] Phase transition from a magnetic-field-free stiffness meter and LEM viewpoints	Prof. KEREN, Amit
11:40	[204] Unconventional pressure dependence of the superfluid density in topological superconductor α -PdBi ₂	DAS, Debarchan
12:00	[293] μ SR Study of the Relationship between the Magnetism, Superconductivity and Electronic Nematicity in Iron-Chalcogenide Thin Films	ADACHI, Tadashi
12:20	[275] Complex nature of charge order and superconductivity interplay in correlated kagome superconductor CsV ₃ Sb ₅	Dr GUPTA, Ritu
12:40	[143] Is the Abrikosov's vortex-model still valid in nematic superconductors?	Dr LAMURA, Gianrico

Oral contributions: Semiconductors (14:20 - 16:00)

-Conveners: Helena Vieira Alberto

time	[id] title	presenter
14:20	[146] Muonium reaction in semiconductors and insulators: the role of the transition state	VILAO, Rui
14:40	[314] Muonium states in semiconducting transition metal dichalcogenides	KRIEGER, Jonas A.
15:00	[252] Probing hydrogen sites and negative hyperfine parameter in semiconducting BaSi ₂ by muon spin rotation	Dr KOJIMA, Kenji
15:20	[211] Carrier lifetimes in high-lifetime silicon wafers and irradiation induced recombination centres	Dr YOKOYAMA, Koji
15:40	[138] Ambipolar Property of Isolated Hydrogen in Oxide Materials Revealed by Muon	Prof. KADONO, Ryosuke Dr HIRAIISHI, Masatoshi

Oral contributions: New techniques (16:20 - 17:20)

-Conveners: Stephen Cottrell

time	[id] title	presenter
16:20	[203] Impact of Growth Conditions on the CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells, Studied by Low-Energy μ SR	NI, Xiaojie
16:40	[167] Coherent microwave control of muonium	Dr DOLL, Andrin

17:00	[194] Status of the New Muonic Helium Atom HFS Measurements at J-PARC MUSE	STRASSER, Patrick
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Friday, 2 September 2022

Oral contributions: Molecular chemistry and chemical physics II (09:40 - 10:20)

-Conveners: Martin Mansson

time	[id] title	presenter
09:40	[179] First depth-resolved beta-NMR measurements of 1-ethyl-3-methylimidazolium acetate	Dr FUJIMOTO, Derek
10:00	[324] Probing the [FeFe]-hydrogenase subsite using muon spectroscopy	WRIGHT, Joseph

Oral contributions: Molecular chemistry and chemical physics III (10:40 - 11:20)

-Conveners: Khashayar Ghandi

time	[id] title	presenter
10:40	[268] Advances in biochemical applications of β -detected NMR	KARNER, Victoria
11:00	[253] New insight into μ SR in water	Dr PANT, Amba Datt

Oral contributions: Strongly correlated electron systems III (11:20 - 12:00)

-Conveners: Jeff Sonier

time	[id] title	presenter
11:20	[316] Beta detected NMR of ^8Li in 2H molybdenum ditelluride	SALMAN, Zaher
11:40	[164] Intriguing Topological Kagome Magnetism of TbMn_6Sn_6	MIELKE III, Charles