

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

Monday, 29 August 2022

Posters: Poster Session I (17:20 - 19:00)

[id] title	presenter	board
[163] Current Status of Operando- μ^+ SR for Battery Materials at J-PARC	Dr OHISHI, Kazuki	
[132] Search for a space charge layer in thin film battery materials with low-energy muons	SUGIYAMA, Jun	
[300] Operando μ SR experiment on nano-crystal growing of the Fe-based magnetic material FINEMET(R) under external fields	Dr KODA, Akihiro	
[168] Muon Studies of the Proton Conducting Polymer Nafion	Dr PRATT, Francis	
[153] Positive muons, electrons, and nanostructures	GHANDI, Khashayar	
[156] Developments of analysis functions for μ SR time spectra which show intermediate shapes between Gaussian and Lorentzian	WATANABE, Isao	
[186] Towards a microscopic understanding of charge carrier mobility in dielectrics with muon spectroscopy	ORTON, Ben COTTRELL, Stephen	
[188] The site and high field β NMR properties of $^8\text{Li}^+$ implanted into $^{\alpha}\text{-Al}_2\text{O}_3$	Prof. MACFARLANE, Andrew	
[141] Using uniaxial stress to probe the relationship between competing superconducting states in a cuprate with spin-stripe order	GUGUCHIA, Zurab	
[120] μ SR Study of Superconductivity Above H_{c2} : A Filamentary State in Type-II Superconductors	Prof. KOZHEVNIKOV, Vladimir	
[122] Non-destructive elemental analysis for medical inheritances by muonic X-ray measurement	NINOMIYA, Kazuhiko	
[130] The BAM cell: an electrochemical device for operando ionic diffusion measurements using muon spectroscopy	MCCLELLAND, Innes	
[157] Local electronic structure of interstitial hydrogen in MgH_2 inferred from muon	Prof. KADONO, Ryosuke	
[170] The electron transfer channel in the sugar recognition system assembled on nano gold particles	GOTO, Takayuki	
[178] Near-surface dynamics of 1-ethyl-3-methylimidazolium acetate above and below the glass transition	Dr FUJIMOTO, Derek	
[134] Unconventional superconductivity in topological ruthenium silicides with Kramers and hourglass fermions	SHIROKA, T.	
[145] Unfolding of the depth profiles with universal-range distribution functions	RIBEIRO, Eduardo	
[150] Non-destructive Elemental Analysis of Lunar Materials with Negative Muon Beam at J-PARC	Mr CHIU, I-Huan	
[147] Hydrogen impurity in MgO as seen by the muonium analogue	ROONKIANI, Ali	
[158] β -NMR studies of the temperature, depth and molecular weight dependence of dynamics in normal and ultrastable polystyrene glasses	MCKENZIE, Iain	

[185] Probing Local Magnetic Order in the Frustrated Bow-tie Lattice of Layered Oxide $\text{Ca}_2\text{Mn}_3\text{O}_8$	Ms MCPHILLIPS, Holly L.	
[181] High-pressure phases of Kitaev materials (as seen by μSR)	SIMUTIS, Gediminas	
[231] Phase diagram of the perovskite solid solution $\text{CaCu}_3\text{Ti}_{(4-x)}\text{Ru}_x\text{O}_{12}$ elucidated with bulk $\mu^+\text{SR}$	NOCERINO, Elisabetta	
[111] Tunable anomalous Hall conductivity through volume-wise magnetic competition in a topological kagome magnet	Dr GUGUCHIA, Zurab	
[162] Magnetic Properties of La_2CuO_4 Nanoparticles	Mrs PUTRI, Anita Eka	
[274] Magnetic Properties of LiFePO_4 under Hydrostatic Pressure	MINIOTAITE, Ugne	
[161] DFT Investigations on Magnetic Properties with Muon in La_2CuO_4 by Using LSDA+U Functional	CHAROENPHON, Supparat	
[172] Investigation of the magnetic topological insulator family (MnBi_2Te_4) (Bi_2Te_3) _n by μSR and NMR	SAHOO, Manaswini	
[176] Evolution of the magnitude of the exchange and Dzyaloshinskii-Moriya interactions under pressure in chiral magnet MnSi	Dr DALMAS DE REOTIER, Pierre	
[317] Enhancement of strong coupling s-wave superconductivity in the vicinity of a quantum critical point in $(\text{Ca,Sr})_3\text{Rh}_4\text{Sn}_{13}$	KRIEGER, Jonas A.	
[165] Superconductivity nearby quantum critical point in hole-doped organic strange metal $\kappa\text{-(ET)}_4\text{Hg}_{3-\delta}\text{Br}_8$	Dr SARI, Dita Puspita	
[169] Integration of arts and sciences by using negative muon non-destructive analysis at J-PARC MUSE	MIYAKE, Yasuhiro	
[309] Development of monitoring system for the muon rotating target using an infrared camera	MATOBA, Shiro	
[175] Precise measurement of the hyperfine splitting in muonium with a high intensity pulsed muon beam at J-PARC	IWAI, Ryoto	
[254] Search of ultracold Mu generation material: μSR study in SiC	Dr PANT, Amba Datt	
[273] Probing beneath the surface without a scratch: Developments of elemental analysis using muons at ISIS	HILLIER, Adrian CATALDO, Matteo	

Tuesday, 30 August 2022

Posters: Poster Session II (17:20 - 19:00)

[id] title	presenter	board
[346] Development of non-destructive and depth-selective quantification method of sub-percent carbon contents in steel by negative muon lifetime measurement	Dr CHIU, I-Huan	
[347] Muon Sites in Hexagonal Ice	Dr PANT, Amba Datt	
[246] Na ⁺ self-diffusion in Co-substituted Na ₂ Ni ₂ - _x Co _x TeO ₆ Na-ion battery cathode material	Dr PALM, Rasmus	
[323] Photophysical dynamics in (CH ₃ NH ₃)PbX ₃ (X=Br, Cl) single crystal perovskites studied by Muon-Spin Spectroscopy	SASSA, Yasmine	
[250] Thin Film and Surface Preparation Chamber for the Low Energy Muons Spectrometer	Ms TEUSCHL, Hanna	
[105] The internal magnetic field in a ferromagnetic compound Y ₂ Co ₁₂ P ₇	Dr OHISHI, Kazuki	
[230] A simulation study of muon transport in the Ultra-Slow Muon beamline at J-PARC	TESHIMA, N.	
[207] The Muon Spectroscopy Computational Project	LIBORIO, Leandro	
[205] Small Sample Measurements at the Low Energy Muon Facility of PSI	NI, Xiaojie	
[193] Intense Lyman-alpha light source for ultra-slow muon generation	Prof. OISHI, Yu	
[232] Super-MuSR scientific design: Progress towards a step-change in muon capabilities at ISIS	BAKER, Peter	
[240] Studies of μ^+ Diffusion and Trapping in dilute Fe Alloys by Longitudinal μ^+ Spin Relaxation Technique	Prof. NISHIDA, Nobuhiko	
[245] Monopole-limited nucleation of magnetism in Eu ₂ Ir ₂ O ₇	Dr PRANDO, Giacomo	
[307] Shallow Muonium radical in κ -Ga ₂ O ₃ thin films.	Prof. DE RENZI, Roberto	
[159] μ SR studies of dynamics in model biomembranes	MCKENZIE, Iain	
[259] Analysis of Positively Charged Muonium in Tin Oxide	Dr BAKER, Brittany	
[213] Investigation of doping and dopant dependence of n-type 4H-SiC with low-energy muon spin spectroscopy	MENDES MARTINS, Maria	
[249] An updated model for muonium in 6H-SiC	MENGYAN, Rick (P.W.)	
[258] Analysis of Positively Charged Muonium and its Diffusion in Cadmium Oxide	CATHCART, Samuel	
[214] Local electronic structure of dilute hydrogen in gallium oxide	Dr HIRAIISHI, Masatoshi	
[222] The interaction between positive muons and multiple quadrupolar nuclei	BLUNDELL, Stephen	
[133] Negative muon spin rotation and relaxation study on Li metal	SUGIYAMA, Jun	
[135] Magnetic dopants and spin-density waves: the SmFe _{1-x} Mn _x AsO case	SHIROKA, T.	
[248] The new muSR instrument FLAME at PSI	Dr LUETKENS, Hubertus	
[234] Status of negative muon at D-Line	Dr TAKESHITA, Soshi	
[247] A μ SR investigation of the influence of inter-site impurities on quantum spin liquids.	HOTZ, Fabian	

[236] Low temperature spin dynamics in the $S = 2$ kagome magnet $\text{Fe}_4\text{Si}_2\text{Sn}_7\text{O}_{16}$: An AC susceptibility, NMR and μSR study	SARKAR, Rajib	
[110] Reinventing the Muon Decay Channel	Dr KREITZMAN, Sydney	
[219] Breaking the barriers in understanding your data: Unbiased model selection for muon spin relaxation spectroscopy	BUTLER, Keith	
[192] Inverse Laplace Transform Approaches to βNMR Relaxation	MACFARLANE, Andrew FUJIMOTO, Derek	
[190] Metal State with Spontaneously Broken Time-Reversal Symmetry above the Superconducting Phase Transition	KLAUSS, Hans-Henning	
[206] A muon-spin relaxation study of type-I rhenium investigating time-reversal symmetry breaking in the superconducting state	Mr JONAS, David	
[195] LE-μSR Study of the Meissner state. New Results on an Old Problem.	Prof. KOZHEVNIKOV, Vladimir	
[255] Superconductivity in TiSe_2 Under Hydrostatic Pressure	ELSON, Frank	
[228] The mechanism of superconductivity in the controversial spinel oxide LiTi_2O_4 clarified with LE$\mu^+\text{SR}$	NOCERINO, Elisabetta	
[154] Tracking Decay Positrons in a Magnetic Field for Muon Microscope Applications	Dr KOJIMA, Kenji	
[202] ^8Li Spin Relaxation as a Probe of the Modification of Molecular Dynamics by Inelastic Deformation of Glassy Polystyrene	FUJIMOTO, Derek Prof. MACFARLANE, W. Andrew	
[227] Negative muon spin rotation and relaxation study on antiferromagnetic order of Na clusters in sodalite	Prof. NAKANO, Takehito	
[242] Present status of J-PARC MUSE	SHIMOMURA, Koichiro	
[260] The Ultra-Slow Muon beamline at J-PARC: the present status and future prospects	Dr KANDA, Sohtaro	
[313] Progress on the surface muon beamline S-Line at J-PARC MUSE	Dr KODA, Akihiro	

Thursday, 1 September 2022

Posters: Poster Session III (17:20 - 19:00)

[id] title	presenter	board
[348] In-flight muon spin resonance and muonium interferometer	KANDA, Sohtaro	
[208] Low Energy Measurements in Low-Energy μ SR	Dr PROKSCHA, Thomas Mr SALMAN, Zaher	
[131] Sodium Diffusion in Hard Carbon Studied by Small-Angle Neutron Scattering and Muon Spin Relaxation	Dr OHISHI, Kazuki	
[280] Magnetic surface state on pure and iron-doped palladium thin films	Dr PROKSCHA, Thomas	
[278] Ion Diffusion in Na Super Ionic Conductors (NaSICON)	PALM, Rasmus	
[308] Development of a drift tube for study of a quantum mechanical scattering of muons in helium gas	MATOBA, Shiro	
[266] Structure of muoniated trimethylsilylvinyl radicals	MCKENZIE, Iain	
[201] Muon-spin relaxation investigation of magnetic bistability in a molecule-based material	HERNANDEZ-MELIAN, Alberto	
[304] Anomalous behaviour of the mixed phase of superconducting $\text{LaFeAsO}_{1-x}\text{F}_x$	Dr PRANDO, Giacomo	
[271] Elemental Depth Profiling using Negative Muon Implantation and X-ray Tomography of a Copper based Bust representing: the Head of Crying Child.	HILLIER, Adrian	
[318] Piezoelectric-driven uniaxial pressure cell for muon spin relaxation experiments	KLAUSS, Hans-Henning	
[294] Development of ultra-slow negative muon production	NATORI, Hiroaki	
[210] KAgF_3 : Using F^- states to measure magnetic materials	WILKINSON, John	
[265] Quadrupolar split resonance of ^8Li in LaAlO_3	KARNER, Victoria	
[180] Broadband Adiabatic Inversion Cross Polarization (BRAIN-CP) for beta-NMR	KREITZMAN, Sydney	
[284] Anisotropic hyperfine coupling of muonium in CeO_2 studied by muon spin relaxation	Dr KODA, Akihiro	
[306] Confirming the phase diagram of the Shastry-Sutherland model with μ^+ SR	GE, Yuqing	
[301] Simulating muon spin depolarisation in a nanostructured magnetic material	STEWART, Rhea	
[215] Magnetic ground state of rutile-type oxide RuO_2 inferred from muon	Dr HIRAIISHI, Masatoshi	
[310] Phase diagram and charge-dynamics of electron-doped osmium based $\text{Ba}_2\text{Na}_{1-x}\text{Ca}_x\text{OsO}_6$ spin-orbit-coupled Mott insulator	SANNA, Samuele	
[315] Magnetic structure refinement in the Mott insulator NiS_2	KRIEGER, Jonas A.	
[297] Magnetic ground state of $\text{YbCo}_2\text{Zn}_{20}$ probed by muon spin relaxation	HIGEMOTO, Wataru	
[257] A MaxEnt- μ SR study: Precursor effects of the Fe_3O_4 Verwey transition	Prof. BOEKEMA, Carolus	
[303] Investigating magnetic skyrmion in Pt/CoFeB/Ru multilayers with low-energy μ SR	SASSA, Yasmine	
[119] Hydrogen diffusion observed in photoinduced YO_2 thin films	KOMATSU, Yuya	

[196] LE-muSR Study of the Field Distribution and the Domain Shape near the Surface of Superconductors in the Intermediate State*	Prof. KOZHEVNIKOV, vladimir	
[229] Magnetic nature of wolframite MnReO₄	NOCERINO, Elisabetta	
[233] Online learning to train users of muons and neutrons at ISIS	BAKER, Peter	
[251] In situ, operando investigation of thin film devices using LE-μSR	Dr SALMAN, Zaher	
[261] Mott-insulating state of alkali-metal clusters in sodalite studied by μSR	Prof. NAKANO, Takehito	
[319] Negative muon spin rotation and relaxation on superconducting MgB₂	SUGIYAMA, Jun	
[136] Development of a stable measurement system for Radio-Frequency studies of muonium reactivity with metal nanoparticles and surface-adsorbed molecules in mesoporous hosts	COTTRELL, Stephen	
[152] BEAMS: A New User-Friendly Program for Analyzing μSR Data	Mr PETERSEN, Alec	
[174] Development of Transient μSR at J-PARC	NISHIMURA, Shoichiro	
[328] Using the TCDFE method to determine muon quantum effects	Mr YUAN, Yue	
[321] Muonium 1S-2S spectroscopy with improved statistics	Mr YAMAMOTO, Shinsuke	
[299] Thermal desorption spectrometry system for complementary hydrogen measurements of μSR experiments	Prof. KADONO, Ryosuke	
[298] Depth profiling of LE-μSR parameters with musrfit	MENDES MARTINS, Maria	
[292] ⁶Li β-NMR studies of Epitaxial Thin Films of the 3D topological Dirac semimetal Sr₃SnO	MACFARLANE, Andrew	
[279] Development of a highly pixelated detector array and a novel digitising DAE for the next generation ISIS instrument, Super-MuSR	FRANKLIN, Sam	
[262] TrimSP Simulations for Pressure Cell Stopping Fraction	ELSON, Frank	
[276] CHNET-TANDEM experiment: Muonic Atoms X-Rays Spectroscopy for elemental characterization of ancient metal artifacts	CLEMENZA, Massimiliano	
[312] Thermal integrity test to muon production target by the induction heating system	Dr LEE, Wonjun	