

PSI, Villigen
January 29, 2020

**MINUTES "BESCHLUSSKONFERENZ"
OF THE USERS MEETING BV 51 AT PSI
January 27 – 29, 2020**

present: Dr. A. Amato (Chair)
Prof. Dr. K. Kirch
Prof. Dr. B. Filippone
Dr. M. Seidel
Dr. S. Ritt (Secretary)

excused: Prof. Dr. C. Rüegg
Prof. Dr. M. Stampanoni

1. Approval of Experiments

The recommendations of the BVR research committee and the μ SR research committee are acknowledged (see minutes and lists in the appendix).

New Proposals

Two new proposals in particle physics have been presented:

R-08-01.3 Search for muon catalyzed $d^3\text{He}$ fusion, P. Kravchenko et al.

R-20-01.1 OMC4DBD: ordinary muon capture as a probe of properties of double beta decay processes, D. Zinatulina et al.

- 20190166 Superconductivity formed by modification of spin-polaron in the iron-pnictide $\text{Ca}_{10}(\text{Pt}_3\text{As}_8)(\text{Fe}_{1-x}\text{Pt}_x\text{As})_{10}$
Lee, Chung-Ang University
Accepted, HAL-9500, 4 days
- 20190199 Exploring the Temperature-Field Phase Diagram of a Frustrated Kagome Lattice Fe_3Sn_2
Guguchia, Paul Scherrer Institut
Accepted, HAL-9500, 6 days
- 20190285 Skyrmions and Griffiths phase stabilized by magnetic frustration in $\text{Gd}_3\text{Ru}_4\text{Al}_{12}$
Wilson, Univ. of Durham
Accepted, HAL-9500, 5 days
- 20190375 μ SR detection of spin accumulation via the spin Hall effect in conventional and exotic metals
Klauss, Technische Universität Dresden
Accepted, LEM, 5 days
- 20191929 Investigation of low temperature magnetism in pristine and cycled $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$
Mukherjee, University of Cambridge
Refused, GPS, 0 days
- 20192027 Investigation of low temperature magnetism in pristine and cycled $\text{LiNi}_{0.8}\text{Mn}_{0.1}\text{Co}_{0.1}\text{O}_2$
Mukherjee, Univ. of Cambridge
Refused, Dolly, 0 days
- 20191947 μ SR studies on 2D triangular lattice compound AgCrSe_2 : chiral order and field-tuned magnetism
Kizhake Malayi, Max-Planck-Inst. fuer Chemische Physik fester Stoffe
Refused, Dolly, 0 days
- 20191962 Study of magnetism and superconductivity in pure and substituted EuFeAs_2
Bukowski, Polish Academy of Sciences
Accepted, GPS, 2 days

- 20191965 Phase separation and magnetic polarons in colossal magnetoresistance systems
Lancaster, Univ. of Durham
Accepted, GPS, 2 days
- 20191968 New insights on GaTa₄Se₈ magnetism from μ SR investigations
Shiroka, ETH Zuerich & Paul Scherrer Institut
Refused, GPS, 0 days
- 20192058 New insights on GaTa₄Se₈ magnetism from μ SR investigations
Shiroka, ETH Zuerich & Paul Scherrer Institut
Refused, Dolly, 0 days
- 20191970 Field-induced magnetic order in a chiral spin chain
Lancaster, Univ. of Durham
Accepted, HAL-9500, 3 days
- 20191971 Magnetic properties of antiferromagnetic half-Heusler CuMnSb
Gas, Polish Academy of Sciences
Accepted, LEM, 4 days
- 20191973 Hydrogen diffusion in a photo-induced metallic thin film, YOH₂
Sugiyama, CROSS
Refused, LEM, 0 days
- 20191976 Magnetic soliton states in chiral systems
Lancaster, Univ. of Durham
Refused, GPS, 0 days
- 20191977 Evolution of magnetic state in the chemically doped quantum magnet Cs_{1-x}Rb_xFeCl₃
Stoppel, ETH Zuerich
Refused, Dolly, 0 days
- 20192001 Zero-field μ SR study on the mysterious insulating state of organic conductor
k-(BEDSe-TTF)₂Cu[N(CN)₂]Br
Kobayashi, Saitama Univ.
Refused, Dolly, 0 days
- 20192002 Novel magnetic phases in the quantum critical region of Ce₃Al
Pregelj, Jozef Stefan Inst.
Accepted, HAL-9500, 4 days
- 20192003 Pressure Induced Quantum Criticality in Ce₂Rh₃Ge₅: A μ SR study
Adroja, Rutherford Appleton Lab.
Refused, GPD, 0 days
- 20192022 Pressure Induced Quantum Criticality in Ce₂Rh₃Ge₅: A μ SR study
Adroja, Rutherford Appleton Lab.
Refused, GPS, 0 days
- 20192006 Investigating three dimension skyrmion morphology in Ta/CoFeB/MgO
multilayers
Wilson, Univ. of Durham
Accepted, LEM, 4 days
- 20192010 Field-induced magnetic order in a molecular biradical system
Pratt, Rutherford Appleton Lab.
Accepted, HAL-9500, 5 days

- 20192012 Magnetic order in an S=1 staggered spin chain
Lancaster, Univ. of Durham
Accepted, Dolly, 2 days
- 20192013 Tuning of magnetism in the topological semimetal EuCd₂As₂
Gati, Ames Laboratory, USDOE, Iowa State Univ.
Accepted, GPD, 5 days
- 20192018 Tuning of magnetism in the topological semimetal EuCd₂As₂
Gati, Ames Laboratory, USDOE, Iowa State Univ.
Accepted, GPS, 1 day
- 20192014 Using pressure to tune magnetic order in the triangular lattice antiferromagnet Cs₂CuCl₄
Zvyagin, Helmholtz-Zentrum Dresden-Rossendorf (HZDR)
Accepted, GPD, 5 days
- 20192019 Probing the anomalous muonium state in dichloromethane – discovering new potentials for Muonium chemistry
Berlie, Rutherford Appleton Lab.
Accepted, GPD, 8 days
- 20192025 Muon-spin relaxation/rotation study of new organic intercalated FeSe-based superconductors
Smidman, Zhejiang Univ.
Accepted, GPS, 4 days
- 20192032 Search for unconventional superconductivity in the new non-centrosymmetric superconductors NbRuSi and TaRuSi
Shang, Paul Scherrer Institut
Accepted, Dolly, 1 day
- 20192033 Exploring the magnetic transitions of Co₂VO₄
Bhat Kademane, Univ. of Stavanger
Refused, GPS, 0 days
- 20192035 Muon-spin spectroscopy study of the multiband superconductors T₅SiB₂ (T = Nb, Mo)
Shang, Paul Scherrer Institut
Refused, GPS, 0 days
- 20192089 Muon-spin spectroscopy study of the multiband superconductors T₅SiB₂ (T = Nb, Mo)
Shang, Paul Scherrer Institut
Refused, Dolly, 0 days
- 20192039 Muon studies of a quantum dipole liquid
Pratt, Rutherford Appleton Lab.
Refused, GPS, 0 days
- 20192170 Muon studies of a quantum dipole liquid
Pratt, Rutherford Appleton Lab.
Refused, HAL-9500, 0 days
- 20192042 Magnetism close to the Majumdar-Ghosh point in the natural mineral szenicsite
Berlie, Rutherford Appleton Lab.
Refused, Dolly, 0 days
- 20192046 Entangled states and magnetic order in a J₁/J₁' rectangular lattice with oxalate and fluoride bridges

- Lee, Univ. of St. Andrews
Accepted, GPS, 2 days
- 20192047 TF spectroscopy of antiferromagnetically ordered states in the kappa-ET family of quantum materials
Pratt, Rutherford Appleton Lab.
Accepted, HAL-9500, 4 days
- 20192054 Search for the spin-rotated muon spot at the muE1 beam-line
Khasanov, Paul Scherrer Institut
Accepted, GPD, 2 days
- 20192055 Magnetism in a doped quantum spin liquid
Simutis, Univ. Paris-Sud
Accepted, GPS, 2 days
- 20192056 Exploring the microscopic superconducting properties of eta-carbide type compounds Nb₄Rh₂C, Zr₄Rh₂O_{0.7}, and Zr₄Rh₂O
von Rohr, Univ. Zuerich
Refused, Dolly, 0 days
- 20192059 Search for unconventional superconductivity near the charge density wave quantum critical point in quasi-two dimensional CuIr₂-xRuxTe₄ tellurides
Shiroka, ETH Zuerich & Paul Scherrer Institut
Accepted, Dolly, 4 days
- 20192060 Muon-spin rotation and relaxation study of the topological superconductor PdBi₂Te₃
Adroja, Rutherford Appleton Lab.
Accepted, Dolly, 2 days
- 20192061 Light-induced carrier dynamics of perovskite solar cell materials
Ni, Paul Scherrer Institut
Accepted, LEM, 5 days
- 20192062 Studies on Novel Yb-based Frustrated Triangular Quantum Antiferromagnets
Cho, Oxford Univ.
Accepted, Dolly, 3 days
- 20192063 Molecular rotors in metal-organic frameworks: a muon-spin relaxation study
Prando, Univ. degli Studi di Pavia
Accepted, HAL-9500, 4 days
- 20192070 Molecular rotors in metal-organic frameworks: a muon-spin relaxation study
Prando, Univ. degli Studi di Pavia
Accepted, Dolly, 2 days
- 20192064 MuSR in the frustrated low-dimensional quantum magnet antlerite
Sadrollahi, Technische Univ. Dresden
Accepted, GPS, 1 day
- 20192067 Muon spin relaxation study on CaRh₂ to investigate gap structure in the superconducting state
Das, Paul Scherrer Institut
Refused, Dolly, 0 days
- 20192068 Zero-field electronic ground state of Fe-doped Ca₃Ru₂O₇: A muSR study
Lamura, Consiglio Nazionale delle Ricerche/CNR-SPIN
Accepted, GPS, 1 day

- 20192069 Magnetic phases in the centrosymmetric cubic perovskite SrFeO₃
Sadrollahi, Technische Univ. Dresden
Refused, GPS, 0 days
- 20192213 Magnetic phases in the centrosymmetric cubic perovskite SrFeO₃
Sadrollahi, Technische Univ. Dresden
Refused, HAL-9500, 0 days
- 20192071 LaNiC₂ superconductivity under pressure: Is it of AFM or CDW origin?
Shiroka, ETH Zuerich & Paul Scherrer Institut
Accepted, GPD, 7 days
- 20192072 LaNiC₂ superconductivity under pressure: Is it of AFM or CDW origin?
Shiroka, ETH Zuerich & Paul Scherrer Institut
Accepted, Dolly, 1 day
- 20192073 Low-energy μ SR studies of current-induced Mott transition in Ca₂RuO₄ thin films
Uemura, Columbia Univ.
Accepted, LEM, 5 days
- 20192074 μ SR study of the Frustrated spin-3/2 Heisenberg Triangular Lattice
Antiferromagnet HCrO₂
Mendels, Univ. Paris XI
Accepted, GPS, 2 days
- 20192075 Interplay of alternation and further neighbor interactions in S-1/2 spin chain
Cs₂CuAl₄O₈
Lake, Helmholtz Zentrum Berlin fuer Materialien und Energie
Refused, Dolly, 0 days
- 20192076 μ SR study on perovskite vanadate ErVO₃
Sadrollahi, Technische Univ. Dresden
Accepted, GPS, 1day
- 20192080 Exploring the field induced quantum criticality in nodal heavy fermion
superconductor Ce₂PdIn₈: a μ SR study
Das, Paul Scherrer Institut
Accepted, HAL-9500, 7 days
- 20192081 Muon spin relaxation study on a topological superconductor: single crystalline
Nb_{0.25}Bi₂Se₃.
Das, Paul Scherrer Institut
Accepted, Dolly, 2 days
- 20192082 Probing the coexistence of spin density wave and superconductivity in Mo₃Sb₇
under hydrostatic pressure
Das, Paul Scherrer Institut
Accepted, GPD, 7 days
- 20192083 Magnetic nature of wolframite AReO₄ with A = Mg and Zn
Nocerino, Royal Inst. of Technology (KTH)
Accepted, GPS, 2 days
- 20192085 Muon spin relaxation study on a type-I superconductor CaBi₂ with a topological
surface state
Das, Paul Scherrer Institut
Refused, GPD, 0 days
- 20192165 Muon spin relaxation study on a type-I superconductor CaBi₂ with a topological
surface state

- Das, Paul Scherrer Institut
Refused, Dolly, 0 days
- 20192087 Magnetic order and magnetic phase diagram of $\text{Li}_2\text{FeSiO}_4$
Hergott, Univ. Heidelberg
Refused, Dolly, 0 days
- 20192232 Magnetic order and magnetic phase diagram of $\text{Li}_2\text{FeSiO}_4$
Hergott, Univ. Heidelberg
Refused, HAL-9500, 0 days
- 20192088 Hydrogen and shallow Mu donor in wide gap Ga_2O_3
De Renzi, Univ. Parma
Accepted, GPS, 1 day
- 20192090 Tuning the charge-density wave and superconductivity in BaPt_2As_2 by
external pressure: A μSR study
Shang, Paul Scherrer Institut
Accepted, GPD, 7 days
- 20192091 Tuning the charge-density wave and superconductivity in BaPt_2As_2 by
external pressure: A μSR study
Shan, Paul Scherrer Institut
Accepted, Dolly, 1 day
- 20192093 Evolution of Magnetic Ordering with Pressure in the Kondo Lattice Material
 $\text{Yb}_2\text{Fe}_3\text{Si}_5$
Gupta, Paul Scherrer Institut
Refused, GPD, 0 days
- 20192121 Evolution of Magnetic Ordering with Pressure in the Kondo Lattice Material
 $\text{Yb}_2\text{Fe}_3\text{Si}_5$
Gupta, Paul Scherrer Institut
Refused, Dolly, 0 days
- 20192094 Exploring the Temperature-Pressure Phase Diagram of a Frustrated Kagome
Lattice Fe_3Sn_2
Guguchia, Paul Scherrer Institut
Accepted, GPD, 7 days
- 20192122 Exploring the Temperature-Pressure Phase Diagram of a Frustrated Kagome
Lattice Fe_3Sn_2
Guguchia, Paul Scherrer Institut
Accepted, GPS, 1 day
- 20192095 Origin of the one-dimensional behavior in a quantum-spin-liquid candidate
Shen, Brookhaven National Lab.
Refused, Dolly, 0 days

- 20192096 Large enhancement of superconducting T_c at the destruction of competing charge density wave phase in $\text{Lu}_5\text{Ir}_4\text{Si}_{10}$
Gupta, Paul Scherrer Institut
Accepted, GPD, 8 days
- 20192097 Large enhancement of superconducting T_c at the destruction of competing charge density wave phase in $\text{Lu}_5\text{Ir}_4\text{Si}_{10}$
Gupta, Paul Scherrer Institut
Accepted, Dolly, 1 day
- 20192098 Electron and proton irradiation tuning of Magnetism in semiconducting transition metal dichalcogenide 2H-MoTe_2
Guguchia, Paul Scherrer Institut
Accepted, GPS, 4 days
- 20192099 Uniaxial strain tuning of superconductivity and static spin stripe order in the cuprate system $\text{La}_{2-x}\text{Ba}_x\text{CuO}_4$
Guguchia, Paul Scherrer Institut
Accepted, Dolly, 6 days
- 20192100 μSR studies on quantum spin liquid candidates $\text{REZnAl}_{11}\text{O}_{19}$ (RE = rare-earth ions)
Guo, Songshan Lake Materials Lab.
Accepted, Dolly, 3 days
- 20192101 Investigation of the magnetic and superconducting properties of TiZrNbSn Shape memory alloy.
Egilmez, American University of Sharjah
Accepted, GPS, 2 days
- 20192103 Unveiling the true nature of superconductivity in the putative type-II/1 superconductor YPd_2Ge_2 using muon spin relaxation/rotation experiment.
Chajewski, Polish Academy of Sciences in Wroclaw
Accepted, Dolly, 1 day
- 20192105 μSR Study of the 4f-based Metallic Compounds with fcc Lattice Structure
Majumder, Univ. Augsburg
Accepted, GPS, 1 day
- 20192106 μSR Study of the 4f-based Metallic Compounds with fcc Lattice Structure
Majumder, Univ. Augsburg
Refused, Dolly, 0 day
- 20192107 Pressure dependent magnetic ground state characterization in LiCrSe_2
Nocerino, Royal Inst. of Technology (KTH)
Refused, GPD, 0 days
- 20192235 Pressure dependent magnetic ground state characterization in LiCrSe_2
Nocerino, Royal Inst. of Technology (KTH)
Refused, GPS, 0 days
- 20192108 Muon spin relaxation study of the unusual superconducting state at the charge density wave quantum critical point in $\text{Lu}(\text{Pt}_{11-x}\text{Pd}_x)_2\text{In}$ (with $x=0.54$).
Das, Paul Scherrer Institut
Refused, HAL-9500, 0 days

- 20192109 Investigation of Quantum Fluctuations in Haldane Spin Chain compound
Na₃Cu₂SbO₆
Das, Paul Scherrer Institut
Refused, Dolly, 0 days,
- 20192110 Investigation of Quantum Fluctuations in Haldane Spin Chain compound
Na₃Cu₂SbO₆
Das, Paul Scherrer Institut
Accepted, GPS, 1 day
- 20192111 Investigation of Quantum Fluctuations in Haldane Spin Chain compound
Na₃Cu₂SbO₆
Das, Paul Scherrer Institut
Refused, GPD, 0 days
- 20192112 Unusual multigap superconductivity in a type-I superconductor RuB₂
Gupta, Paul Scherrer Institut
Refused, GPD, 0 days
- 20192114 Unusual multigap superconductivity in a type-I superconductor RuB₂
Gupta, Paul Scherrer Institut
Accepted, Dolly, 2 days
- 20192113 Pressure induced interplay between α and β phases of topological
superconductor PdBi₂
Khasanov, Paul Scherrer Institut
Accepted, GPD, 9 days
- 20192140 Pressure induced interplay between α and β phases of topological
superconductor PdBi₂
Khasanov, Paul Scherrer Institut
Accepted, Dolly, 2 days
- 20192115 Muon spin relaxation study on a charge density wave superconductor under
hydrostatic pressure.
Gupta, Paul Scherrer Institut
Refused, GPD, 0 days
- 20192117 Muon spin relaxation study on a charge density wave superconductor under
hydrostatic pressure.
Gupta, Paul Scherrer Institut
Refused, Dolly, 0 days
- 20192116 Investigation of Radical Structures in Fluorinated Graphene
Wang, Sichuan University
Refused, GPS, 0 days
- 20192118 Superconducting order parameter in organic-inorganic hybrid topological
materials
Khasanov, Paul Scherrer Institut
Accepted, Dolly, 3 days
- 20192119 Open-shell Electronic Structures of Excited/Ground State of Kekulé Di-radical
Bisphenalenyl in thin films
Wang, Sichuan University
Accepted, LEM, 5 days

- 20192233 Open-shell Electronic Structures of Excited/Ground State of Kekulé Di-radical Bisphenalenyl in thin films
Wang, Sichuan University
Accepted, GPS, 1 day
- 20192120 Investigation of ferromagnetism in heavily overdoped (La,Ce)₂CuO₄
Sonier, Simon Fraser Univ.
Accepted, LEM, 5 days
- 20192125 Magnetic ground state of the honeycomb iridate Ag₃LiIr₂O₆
Graf, Boston College
Accepted, Dolly, 3 days
- 20192150 Magnetic ground state of the honeycomb iridate Ag₃LiIr₂O₆
Graf, Boston College
Accepted, GPS, 1 days
- 20192127 Magnetism and magnetic ordering in LiYbO₂
Graf, Boston College
Accepted, Dolly, 1 day
- 20192128 Determination of the Superconducting Gap Symmetry in the quasi 3-Dimensional Layered Organic Superconductor kappa-(MDT-TTF)₂AuI₂
Sari, Shibaura Inst. of Technology
Refused, Dolly, 0 day
- 20192131 MuSR study on the parent material RNiO₂ (R= La, Nd) of new nickelate superconductors
Shu, Fudan Univ.
Accepted, Dolly, 2 days
- 20192132 Exploring the nature of a ground state in the H-intercalated Kitaev magnet H₃LiIr₂O₆
Choi, Chung-Ang University
Accepted, Dolly, 1 day
- 20192133 Understand the role of selenium isotope effect on layered BiCh₂ (Ch: Se, S) based superconductor
Bhattacharyya, Ramakrishna Mission Vivekananda Educational and Research Institute
Refused, Dolly, 0 days
- 20192134 Muon Spin Relaxation studies on superconducting Ba_{1-x}Sr_xNi₂As₂
Shu, Fudan Univ.
Refused, HAL-9500, 0 days
- 20192135 Muon Spin Relaxation studies on superconducting Ba_{1-x}Sr_xNi₂As₂
Shu, Fudan Univ.
Refused, Dolly, 0 days
- 20192136 Classical spin liquid in the s=2 Kagome antiferromagnet CsMn₃F₆(SeO₃)₂
Choi, Chung-Ang University
Accepted, Dolly, 1 day
- 20192137 MuSR study on disorder-free Yb(BaBO₃)₃ with spin-1/2 Yb³⁺ triangular lattice
Shu, Fudan Univ.
Accepted, Dolly, 3 days
- 20192139 Microwave excitation of muon and electron spins in bulk uSR
Doll, Paul Scherrer Institut
Accepted, GPS, 2 days

- 20192141 Magnetic behavior of single atom Co in C₃N₄
Yi, Univ. of New South Wales
Refused, LEM, 0 days
- 20192142 Understanding the nature of the metallic spin liquid state in LiV₂O₄ single-crystals
Billington, Univ. of Cardiff
Accepted, Dolly, 1 day
- 20192154 Understanding the nature of the metallic spin liquid state in LiV₂O₄ single-crystals
Billington, Univ. of Cardiff
Accepted, HAL-9500, 2 days
- 20192143 Opposite 16O-18O isotope effects on TN and TMIT in RNiO₃ perovskites
Klein, Paul Scherrer Institut
Refused, GPS, 0 days
- 20192144 Investigation of MuSR Spectra in the Quantum Critical Regime of Frustrated Heavy Fermion Magnet UAu₂.
O'Neill, Univ. of Edinburgh
Refused, GPD, 0 days
- 20192196 Investigation of MuSR Spectra in the Quantum Critical Regime of Frustrated Heavy Fermion Magnet UAu₂.
O'Neill, Univ. of Edinburgh
Refused, HAL-9500, 0 days
- 20192145 Investigation of the effect changing the lanthanide ion in polioxometalates single-ion magnet of the family [Ln(W₅O₁₈)₂]-n
Vieira, Univ. of Aveiro
Accepted, GPS, 4 days
- 20192146 From spin liquid to magnetic order ground states in anisotropic S_{eff}=1/2 triangular rare-earth based antiferromagnets
Kermarrec, Univ. Paris-Sud
Refused, Dolly, 0 days
- 20192191 From spin liquid to magnetic order ground states in anisotropic S_{eff}=1/2 triangular rare-earth based antiferromagnets
Kermarrec, Univ. Paris-Sud
Accepted, GPS, 1 day
- 20192147 On evaluating the possible quantum spin liquid states of some new triple perovskite Iridates
Nair, Indian Inst. of Science Education and Research (IISER)
Refused, Dolly, 0 days
- 20192148 Magnetic and superconducting phases in TbTe₃
Rabia, COMSATS Univ. Islamabad
Refused, GPD, 0 days
- 20192149 Magnetic and superconducting phases in TbTe₃
Rabia, COMSATS Univ. Islamabad
Refused, GPS, 0 days
- 20192152 The Effect of the Onsite Coulomb Interaction and the Spatial Anisotropy of Spin Correlations in the Symmetry of the Superconducting Order Parameter
Sari, Shibaura Inst. of Technology
Refused, Dolly, 0 days

- 20192155 Contribution of isolated susceptibility to single ion behaviour of Ho ions.
Giblin, Univ. of Cardiff
Accepted, GPS, 1 day
- 20192157 Magnetic order of the isostructural quasi-2D compounds $(\text{NH}_4)_2\text{Co}_2(\text{C}_2\text{O}_4)\text{F}_4$
and $\text{Cs}_2\text{Mn}_2(\text{C}_2\text{O}_4)\text{F}_4$
Lee, Univ. of St. Andrews
Accepted, GPS, 2 days
- 20192158 Effect of high pressure on the Quantum Spin Liquid state in the honeycomb
Iridate Kitaev material Cu_2IrO_3 ,
Singh, Indian Inst. of Science Education and Research (IISER) Mohali
Refused, GPD, 0 days
- 20192160 Superconducting spin-triplet pair correlations in non-centrosymmetric NbRe
thin films
Flokstra, Univ. of St. Andrews
Refused, LEM, 0 days
- 20192161 d-f and spin-phonon coupling in $(\text{Nd}_{1-x}\text{Ca}_x)_2\text{Ru}_2\text{O}_7$
Watanabe, RIKEN
Refused, Dolly, 0 days
- 20192162 Field Dependence and Temperature Dependence Measurement of Muonium
Spin Relaxation in 12mer Single-Strand DNA
Zaharim, Univ. Sains Malaysia
Refused, HAL-9500, 0 days
- 20192164 Effect of pressure on the magnetic ground state of the skyrmion host GaV_4S_8
Wilson, Univ. of Durham
Accepted, GPD, 2 days
- 20192166 Manipulating the crystal field in Pr-based Pyrochlores
Blundell, Univ. of Oxford
Accepted, GPS, 2 days
- 20192183 Manipulating the crystal field in Pr-based Pyrochlores
Blundell, Univ. of Oxford
Accepted, Dolly, 1 day
- 20192167 Magnetic Ordering around the Quantum Critical Point of $(\text{Eu}_{1-x}\text{Ca}_x)_2\text{Ir}_2\text{O}_7$
Watanabe, RIKEN
Refused, Dolly, 0 days
- 20192168 $\text{Fe}_4\text{Nb}_2\text{O}_9$: a magnetoelectric collinear antiferromagnet
Blundell, Univ. of Oxford
Accepted, GPS, 1 day
- 20192184 $\text{Fe}_4\text{Nb}_2\text{O}_9$: a magnetoelectric collinear antiferromagnet
Blundell, Univ. of Oxford
Accepted, HAL-9500, 2 days

- 20192169 Investigations of the time-reversal-symmetry broken in the superconducting state of the caged compound Lu₅Co₆Sn₁₈
Chang, National Chen Kung Univ.
Refused, Dolly, 0 days
- 20192172 A Tb-based Triangular Lattice Quantum Spin Liquid
Blundell, Univ. of Oxford
Accepted, Dolly, 1 day
- 20192174 Magnetic ground state and excitations of the honeycomb-lattice antiferromagnet Yb₂Ba₉Si₆O₂₄
Zorko, Jozef Stefan Inst.
Accepted, GPS, 2 days
- 20192175 Probing the unconventional magnetic state of YMn_{0.25}In_{0.75}O₃
Das Sarma, Indian Institute of Science
Refused, Dolly, 0 days
- 20192177 Investigation of Magnetic ground state and local magnetic ordering in Bi₂Te₃ based magnetic Topological Insulator by MuSR spectroscopy
Banerjee, Univ. of Calcutta
Refused, HAL-9500, 0 days
- 20192179 Ground state in the tunable Kitaev Iridate material KxIr_{1-x}/4O₂
Simutis, Univ. Paris-Sud
Accepted, GPS, 1 day
- 20192211 Ground state in the tunable Kitaev Iridate material KxIr_{1-x}/4O₂
Simutis, Univ. Paris-Sud
Accepted, Dolly, 1 day
- 20192180 Following Unconventional Magnetic Order in a Family of S = ½ Kagome MOFs
Tustain, Univ. of Liverpool
Accepted, GPS, 2 days
- 20192181 Muon spin relaxation study of the single crystals of rare-earth chalcogenides AReCh₂ - candidates of quantum spin liquid
Ma, Shanghai Jiao Tong Univ.
Accepted, Dolly, 2 days
- 20192188 Investigation of charge-neutral muon states in classic antiferromagnets
Dehn, Univ. British Columbia
Accepted, HAL-9500, 7 days
- 20192192 muSR investigation on doping dependence of iron-deficient Fe_{1-x}Se
Yu, Chinese Academy of Sciences
Accepted, GPS, 5 days
- 20192204 muSR investigation on doping dependence of iron-deficient Fe_{1-x}Se
Yu, Chinese Academy of Sciences
Refused, LEM, 0 days
- 20192193 Study of the spin dynamics in Os-based double perovskite with strong spin-orbit coupling
Sanna, Univ. degli Studi di Bologna
Accepted, GPS, 2 days
- 20192195 Multi-Q state and possible skyrmionic lattice in CeAl₂: A μ SR study
Shiroka, ETH Zuerich & Paul Scherrer Institut
Refused, Dolly, 0 days

- 20192200 The Effect of Pressure on the Superconducting State of Potassium-Doped Bulk Tungsten Disulphide via TF μ SR
Seel, Univ. of Oxford
Accepted, GPD, 6 days
- 20192201 Temperature and magnetic field evolution of the Magnetic State in a ferrimagnetic anomalous hall material TbMn6Sn6
Guguchia, Paul Scherrer Institut
Refused, GPS, 0 days
- 20192215 Temperature and magnetic field evolution of the Magnetic State in a ferrimagnetic anomalous hall material TbMn6Sn6
Guguchia, Paul Scherrer Institut
Refused, HAL-9500, 0 days
- 20192205 A charge-neutral muon-polaron complex in ZnCr2O4?
Blundell, Univ. of Oxford
Accepted, GPS, 3 days
- 20192207 Is OsB2 the first multi-gap Type-I superconductor?
Gupta, Paul Scherrer Institut
Refused, Dolly, 0 days
- 20192209 Probing surface state in chromium doped topological insulator
Giri, Indian Association for the Cultivation of Science
Refused, LEM, 0 days
- 20192216 Knight shift measurements of Sr2RuO4
Grinenko, Technische Univ. Dresden
Accepted, HAL-9500, 8 days
- 20192217 Muon Spin Relaxation study on a topological superconductor candidate α -PdBi2
Das, Paul Scherrer Institut
Refused, Dolly, 0 days
- 20192219 Muon Spin Relaxation study on a topological superconductor candidate α -PdBi2
Das, Paul Scherrer Institut
Accepted, HAL-9500, 3 days
- 20192218 Investigation of the interplay between magnetism and muonium states in semiconducting TMDCs
Salman, Paul Scherrer Institut
Accepted, GPS, 4 days
- 20192220 The nature of a time-reversal symmetry broken state in FeSe
Grinenko, Technische Univ. Dresden
Refused, GPS, 0 days
- 20192221 Studies on the charge cluster glass by muon spin relaxation method
Taniguchi, Saitama Univ.
Refused, Dolly, 0 days
- 20192222 μ SR studies on a change of the zero-field spin structure in a series of isostructural organic antiferromagnets bordering on a superconducting phase
Taniguchi, Saitama Univ.
Accepted, GPS, 2 days
- 20192225 Investigation of the Magnetic Properties of Antiferromagnetic Topological Insulators

	Salman, Paul Scherrer Institut Accepted, GPS, 2 days
20192228	Muon spin relaxation study of the single crystals of rare-earth chalcogenides AReCh ₂ with transverse field Ma, Shanghai Jiao Tong Univ. Refused, HAL-9500, 0 days
20192231	Studies on muon spin rotation in layered organic antiferromagnet, beta'-(BEDT-TTF) ₂ AuCl ₂ Taniguchi, Saitama Univ. Refused, Dolly, 0 days
20192237	Microscopic investigation of superconductivity in NbTe ₂ : Possible topological superconductor Guguchia, Paul Scherrer Institut Accepted, HAL-9500, 5 days
20192238	Study of magnetism in the hole doped FeSe Wang, Paul Scherrer Institut Accepted, HAL-9500, 5 days
20192239	Study of magnetism in the hole doped FeSe Wang, Paul Scherrer Institut Refused, GPS, 0 days
20192240	Magnetic ordering in (Fe _{1-x} Mn _x) ₂ AIB ₂ Keren, The Israel Inst. of Technology – Technion Accepted, GPS, 1 day

2. Beam schedules

The 590 MeV ring accelerator is scheduled for 31 weeks of high intensity beam production from May 18 to December 20, 2020. A schedule has been worked out which satisfies most beam requests.

As usual, the beam schedules 2020 will be regularly updated and are displayed on the internet:

- <https://www.psi.ch/de/sbl/schedules> for the general schedule
- <https://www.psi.ch/en/smus/beamtime-schedule> for the μ SR detailed schedule

3. Varia

The next meeting BVR 52 is scheduled for January 25-27, 2021. The first day is reserved for detailed reviews as usual. The deadline for beam requests, new proposals and addenda is January 11, 2021. Users are requested to make electronic submissions of their documents.

The dates for the next meeting BVRA-2021 are not fixed yet.

Attachments

- PSI 590 MeV HE Program 2020 can also be found on <https://www.psi.ch/de/sbl>
- BV51 list of PSI HE experiments
- BVRA-20 list of PSI continued μ SR experiments
- the short minutes with recommendations of the scientific committee for particle physics experiments can be found at <https://www.psi.ch/de/sbl/previous-user-meetings>

PSI 509 MeV Program 2020

PSI 590 MeV Program 2020

Last update: Jan 29th, 2020, S. Ritt <stefan.ritt@psi.ch>
http://www.psi.ch/ltp/FacilitiesEN/schedule_2020.pdf

				May		June				July					August					September				October				November				December							
				19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
				Availability																																			
PSP																																							
		PSI Contact																																					
PiM3	MuSR (GPS<F)		Amato	Amato (coord.)																																			
PIE3	MuSR high field		Scheuermann	Scheuermann (coord.)																																			
MuE1	MuSR (GPD)		Amato	Amato (coord.)																																			
MuE4	MuSR (LEM)		Prokscha	Prokscha (coord.)																																			
PIE1-1	MuSR (Dolly)		Amato	Amato (coord.)																																			
	PSEC-Micromegas		Antognini	Sohl																																			
	RPC counters		Antognini	Bencivenni																																			
	MuEDM		Schmidt-Wellenbur	Schmidt-Wellenburg																																			
PIE1-2	R-20-01.1	5203.85800.012	Knecht	Zinatulina																																			
	R-08-01.3 Musun	5203.32030.004	Knecht	Kravchenko																																			
MIXE	Muonium		Knecht	Soter																																			
	uRWELL		Knecht	Poli Lener																																			
PIE5	R-99-05.2 MEG	5203.32030.001	Ritt	Mori																																			
	R-12-03.1 Mu3E	5203.32030.002	Ritt	Schoening																																			
	Praktikum	5203.85800.012	Meier	Grab																																			
UCN	R-05-03.1 n2EDM		Schmidt-Wellenbur	Schmidt-Wellenburg																																			
	Mirror-Neutron		Schmidt-Wellenbur	Ayres																																			
PiM1	R-12-03.1 Mu3E	5203.32030.002	Ritt	Schoening																																			
	R-12-01.2 MUSE	5203.32030.006	Reggiani/Ritt	Gilman																																			
	Praktikum	5203.85800.012	Meier	Steinkamp																																			
	CMS Diamond Detectors	5203.85800.012	Meier	Hits																																			
	PiMice	5203.85800.012	Reggiani	Desorgher																																			
	HVMAPS	5203.85800.012	Meier	Fritsch																																			
	RADEM (PIF)	5203.85800.012	Hajdas	Hajdas																																			
	TIMESPOT	5203.85800.012	Papa	Cardini																																			
	COMET/NA62	5203.85800.012	Papa	Nishiguchi																																			
	TOTEM	5203.85800.012	Papa	Garcia																																			
	RadMap	5203.85800.012	Meier	Losekamm																																			
	PAD-Micromegas	5203.85800.012	Meier	Camerlingo																																			
	Spin-rotator																																						
Start (Monday)																																							
End (Sunday)																																							

BV51 LIST OF PSI π / μ EXPERIMENTS: BEAM REQUESTS AND ALLOCATIONS 2020

1. New Proposals

Proposal No.	Spokesperson	Email	Experiment	Beam request	Area	Status
R-20-01.1	D. Zinatulina	zinatulina@jinr.ru	Ordinary muon capture as a probe of properties of double beta decay	3 weeks	piE1	approved
R-08-01.3	P. Kravchenko	kravchenko_pv@pnpi.nrcki.ru	Search for muon catalyzed d-3He fusion	4 weeks	piE1	approved
LoI	N.J. Ayres		Search for Neutron to Mirror-Neutron	some tests	UCN	approved

2. Progress Reports and Beam Requests

Proposal No.	Spokesperson	Email	Experiment	Beam request	Area	Status
R-99-05.2	T. Mori A. Baldini	mori@icepp.s.u-tokyo.ac.jp baldini@pi.infn.it	Search for $\mu^+ \rightarrow e+\gamma$ (MEGII)	29 weeks	piE5	19 weeks provisional approved
R-05-03.1	P. Schmidt-Wellenburg Guillaume Pignol	philipp.schmidt-wellenburg@psi.ch pignol@lpsc.in2p3.fr	Measurement of the Neutron Electric Dipole Moment (n2EDM)	all available UCN beam time	UCN	approved
R-12-01.2	R. Gilman	rgilman@physics.rutgers.edu	Studying the Proton "Radius" Puzzle with μ -ep Elastic Scattering (MUSE collaboration)	25 weeks	piM1	16 weeks approved
R-12-03.1	A. Schoening St. Ritt	andre.schoening@desy.de stefan.ritt@psi.ch	Search for the Decay $\mu \rightarrow eee$ (Mu3e collaboration)	5 weeks 2 weeks 6 weeks	piM1 piE1/E5 piE5	approved approved provisional approved
R-14-02.1	A. Antognini	aldo@phys.ethz.ch	MuCool	none		
R-16-01.1	A. Knecht	a.knecht@psi.ch	Measurement radium charge radius (μ X)	none		
R-16-02.1	A. Antognini	aldo@phys.ethz.ch	Hyperfine Splitting in Muonic H and He (HyperMu)	none		
R-19-01.1	P. Crivelli	Paolo.Crivelli@cern.ch	MuMass	1 week	LEM	approved

2. Test Beam Requests

	Spokesperson	Email	Experiment	Beam request	Area	Status
	D. Hits	dmitry.hits@phys.ethz.ch	CMS Diamond Detectors	2 weeks	piM1	1 week approved
	M. Fritsch	miriam.fritsch@rub.de	HVMAPS Sensors	1 week	piM1/E1	approved
	L. Desorgher	laurent.desorgher@chuv.ch	PIMICE mice irradiation	2 x 1 week	piM1/E1	approved
	M. Poli Lener	marco.polilener@Inf.infn.it	RWELL Sensors	all beam time	piE1	declined
	P. Schmidt-Wellenburg	philipp.schmidt-wellenburg@psi.ch	MuEDM Tests	1 week	piE1/M1	approved
	W. Hajdas	wojtek.hajdas@psi.ch	RADEM calibration	2x1 week	piM1	approved
	H. Nishiguchi	hajime.nishiguchi@kek.jp	COMET/NA62 Tests	1 week	piM1	approved
	A. Cardini	alessandro.cardini@ca.infn.it	TIMESPOT Detectors	1 week	piM1	approved
	L. Sohl	lukas.sohl@cea.fr	PSEC-Micromegas	1 week	piE1	approved
	A. Soter	asoter@phys.ethz.ch	Muonium tests	3.5 weeks	piE1	approved
	M. Camerlingo	mariateresa.camerlingo@uniroma3.it	PAD-Micromegas	1 week	piM1	approved
	M. Losekamm	m.losekamm@tum.de	RadMap detector	1 week	piM1	approved
	G. Bencivenni	giovanni.bencivenni@Inf.infn.it	RPC counters	2 weeks	piE1	1 week approved

3. Praktika

	Spokesperson	Email	Experiment	Beam request	Area	Status
	C. Grab	grab@phys.ethz.ch	ETHZ-Uni Heidelberg-Uni Mainz	2 weeks	piM1 or piE1 or piE5	approved
	O. Steinkamp	olafs@physik.uzh.ch	Uni Zurich	2 weeks	piM1	approved

BVRA-2020 list of Continued μ SR experiments

PROPID	Proposal title	PROPOSER	Institute	STATUS	Instrument Assigned	Days Assigned	Cont of
20192066	Superconducting bilayers for radiofrequency resonators in particle accelerators	Junginger	TRIUMF	Accepted	LEM	5	20131756
20192210	Evolution of the long-range magnetic order of superconducting FeSe _{1-x} S _x as a function of sulfur content x and hydrostatic pressure	Wang	Paul Scherrer Institut	Accepted	GPD	8	20161859
20192212	Evolution of the long-range magnetic order of superconducting FeSe _{1-x} S _x as a function of sulfur content x and hydrostatic pressure	Wang	Paul Scherrer Institut	Accepted	GPS	2	20161859
20192171	Spin liquid ground state in the quantum kagome antiferromagnet Y ₃ Cu ₉ (OH) ₁₈ OCl ₈ : comparing single crystals to powder samples	Bert	Univ. Paris-Sud	Accepted	Dolly	1	20171201
20192124	Field dependence of the magnetic penetration depth in superconductors (continue)	Kozhevnikov	KU Leuven	Refused	LEM	0	20180450
20192190	Field dependence of the magnetic penetration depth in superconductors (continue)	Kozhevnikov	KU Leuven	Refused	Dolly	0	20180450
20192194	low energy μ SR Study of (Li _{1-x} Fe _x)OHFe _{1-y} Se single crystal films as function of doping	Yu	Chinese Academy of Sciences	Accepted	LEM	2	20180510
20192045	MUSR study of spin dynamics in Sr ₂ CuTeO ₆	Litterst	Techn. Univ. Braunschweig	Refused	Dolly	0	20180522
20192052	A μ SRSR study of local magnetism under transverse magnetic field in TbMnO ₃ and TbMn _{0.98} Fe _{0.02} O ₃ single crystals	Moreira	FACULDADE DE CIÊNCIAS DA UNIVERSIDADE DO PORTO	Accepted	HAL-9500	5	20180538
20190343	Proximity coupling at (Cr,Dy) magnetically doped topological insulator interfaces	Steinke	Rutherford Appleton Lab.	Accepted	LEM	3	20180609
20192182	Photo-Generation of Spin Currents in Topological Insulators Probed by Muonium	Cespedes	Univ. of Leeds	Accepted	LEM	5	20180612
20192178	Probing surface magnetism in Sr ₂ RuO ₄ superconducting crystals	Di Bernardo	Univ. of Cambridge	Accepted	LEM	4	20180637
20192123	DEFECT & STRAIN ANALYSIS AT THE SiO ₂ /4H-SiC INTERFACE	Grossner	ETH Zürich	Accepted	LEM	6	20182389
20191952	Magnetic properties of (Mo ₂ /3RE _{1/3}) ₂ AlC – a magnetic sheet precursor	Keren	The Israel Inst. of Technology - Technion	Refused	HAL-9500	0	20190041
PROPID	Proposal title	PROPOSER	Institute	STATUS	Instrument Assigned	Days Assigned	Cont of

BVRA-2020 list of Continued μ SR experiments

20192036	Pressure response of the MnSi helimagnet in zero field	Dalmas de Reotier	CEA Grenoble	Accepted	GPD	8	20190134
20192057	Investigation of magnetic properties of $K_2Ni_2-xCo_xTeO_6$ using muon spin rotation and relaxation techniques	Matsubara	Royal Inst. of Technology (KTH)	Accepted	GPS	4	20190157
20192234	Investigation of magnetic properties of $K_2Ni_2-xCo_xTeO_6$ using muon spin rotation and relaxation techniques	Matsubara	Royal Inst. of Technology (KTH)	Accepted	Dolly	2	20190157
20192156	Revealing the magnetic structures of the hydrogenated $ReNiO_3$ via weak transverse field muon spin rotation (μ SR) experiments	Bao	Chinese Academy of Sciences	Accepted	LEM	5	20190158
20192044	Magnetism of $CuCr_2S_4$, $CuCr_2Se_4$ and $Fe_{0.1}Cu_{0.9}Cr_2S_4$	Litterst	Techn. Univ. Braunschweig	Accepted	GPS	1	20190171
20192187	Time reversal symmetry breaking in Chiral molecules on superconducting Nb	Alpern	The Hebrew Univ. of Jerusalem	Accepted	LEM	5	20190198
20192102	Magnetic ground state of iron mononitride (FeN)	Gupta	UGC-DAE Consortium for Scientific Research	Accepted	LEM	4	20190249
20192214	Spin density wave magnetism in Sr_2RuO_4 under uniaxial strain	Klauss	Technische Univ. Dresden	Accepted	Dolly	6	20190261
20192223	Superconducting metamaterials for spin-based electronics	Flokstra	Univ. of St. Andrews	Accepted	LEM	5	20190268
20192129	μ SR study of Cu-spin fluctuations in the overdoped regime of the electron-doped high-Tc cuprates without rare-earth moments	Adachi	Sophia Univ.	Accepted	LEM	4	20190273
20192138	μ SR study of the sulfur-induced magnetism and superconductivity in iron-chalcogenide thin films	Adachi	Sophia Univ.	Accepted	LEM	6	20190275
20192173	Unconventional superconductivity and field-induced magnetism in $CeRh_2As_2$ near quantum criticality	Khim	Max-Planck-Inst. für Chemische Physik fester Stoffe	Accepted	HAL-9500	4	20190282

PROPID	Proposal title	PROPOSER	Institute	STATUS	Instrument Assigned	Days Assigned	Cont of
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BVRA-2020 list of Continued μ SR experiments

20192176	Test for unconventional superconductivity in LaIr_2As_2 without local inversion symmetry	Khim	Max-Planck-Inst. für Chemische Physik fester Stoffe	Refused	Dolly	0	20190282
20192229	Unrevealing the mechanism of spontaneous currents in BTRS superconductors	Grinenko	Technische Univ. Dresden	Accepted	Dolly	3	20190314
20192230	Unrevealing the mechanism of spontaneous currents in BTRS superconductors	Grinenko	Technische Univ. Dresden	Accepted	GPS	4	20190314
20192186	Role of quantum critical fluctuations for unconventional superconductivity in Zn-substituted CeCoIn_5	Higemoto	Japan Atomic Energy Agency	Refused	HAL-9500	0	20190319
20192224	Probing time-reversal symmetry breaking in the candidate Weyl superconductor $\text{La}_3\text{Bi}_4\text{Pd}_3$	Eguchi	Technische Univ. Wien	Accepted	Dolly	2	20190329
20192185	Magnetic properties of layered honeycomb oxide under high pressure	Matsubara	Royal Inst. of Technology (KTH)	Accepted	GPD	7	20190395
20192236	Magnetic properties of layered honeycomb oxide under high pressure	Matsubara	Royal Inst. of Technology (KTH)	Accepted	GPS	1	20190395
20192041	Negative muon: a non-destructive and depth-sensitive probe for elemental composition	Amato	Paul Scherrer Institut	Accepted	Dolly	7	20190410