

PSI, Villigen  
March 8, 2022

**MINUTES "BESCHLUSSKONFERENZ"  
OF THE USERS MEETING BV 53 AT PSI  
March 8, 2022**

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

excused: Prof. Dr. C. Rüegg  
Prof. Dr. M. Stampanoni  
Prof. Dr. B. Filippone  
Prof. Dr. S.J. Blundell

# 1. Approval of Experiments

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

# 2. Beam schedules

The 590 MeV ring accelerator is scheduled for 31 weeks of high intensity beam production from May 2 to December 22, 2022. A schedule has been worked out which satisfies most beam requests.

As usual, the beam schedules 2022 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  $\mu$ SR detailed schedule

# 3. Varia

The next meeting BVR 54 is scheduled for January 23-25, 2023. The first day is reserved for detailed reviews as usual. The deadline for beam requests, new proposals and addenda is January 9, 2023. Users are requested to make electronic submissions of their documents.

The dates for the next meeting BVRA-2023 are not fixed yet.

## Attachments

- PSI 590 MeV HE Program 2022 can also be found on <https://www.psi.ch/de/sbl>
- BV53 list of PSI HE experiments
- BVRA-22 List of New  $\mu$ SR experiments
- BVRA-22 List of continued  $\mu$ 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>



## BV53 LIST OF PSI $\pi$ / $\mu$ EXPERIMENTS: BEAM REQUESTS AND ALLOCATIONS 2022

<b>1. New Proposals</b>						
Proposal No.	Spokesperson	Email	Experiment	Request	Area	Granted
R-22-01.1	D. Bryman	doug@triumf.ca	PIONEER	2 w	piE5	2 w
	D. Hertzog	hertzog@uw.edu				
	T. Mori	mori@icepp.s.u-tokyo.ac.jp				
R-22-02.1	A. Soter	anna.soter@psi.ch	LEMING	3 w	piE1	2.5 w
R-22-03.1	H. Landman	howardandrewlandman@gmail.com	ETD	2.5 w	piE1	0
<b>2. Progress Reports and Beam Requests</b>						
Proposal No.	Spokesperson	Email	Experiment	Request	Area	Granted
R-99-05.2	T. Mori	mori@icepp.s.u-tokyo.ac.jp	MEG II	27 w	piE5	
	A. Baldini	baldini@pi.infn.it				
R-05-03.1	B. Lauss	bernhard.lauss@psi.ch	n2EDM	All	UCN South	All
R-08-01.2	P. Kravchenko	kravchenko_pv@pnpi.nrcki.ru	muCF d3He	4+2 w	piE1	5 w
R-12-01.2	R. Gilman	rgilman@physics.rutgers.edu	MUSE	6 m	piM1	18.5 w
	E. Downie	edownie@gwu.edu				
R-12-03.1	A. Schoening	andre.schoening@desy.de	Mu3e	6 w + 7 w	piM1 + piE5	
	S. Ritt	stefan.ritt@psi.ch				
R-16-01.1	A. Knecht	a.knecht@psi.ch	muX	3 w	piE1	2.5 w
R-20-01.1	D. Zinatulina	zinatulina@jinr.ru	OMC4BDB	5 w	piE1	2.5 w
R-21-01.1	B. Lauss	bernhard.lauss@psi.ch	mirrorN	2 w	UCN W1	2 w
R-21-02.1	P. Schmidt-Wellenburg	philipp.schmidt-wellenburg@psi.ch	muonEDM	1+1 w	piE1 + piM1	1 + 1 w
R-21-03.1	A. Knaian	ara@nklabs.com	Anvil	4 w	piE1	2 w

## BV53 LIST OF PSI $\pi$ / $\mu$ EXPERIMENTS: BEAM REQUESTS AND ALLOCATIONS 2022

<b>3. Test Beam Requests</b>						
	<b>Spokesperson</b>	<b>Email</b>	<b>Experiment</b>	<b>Request</b>	<b>Area</b>	<b>Granted</b>
	A. Cardini	alessandro.cardini@cern.ch	Timespot	1 w	piM1	1 w
	D. Hits	dmitry.hits@phys.ethz.ch	CMS Diamond Detectors	2x1 week	piM1	1 w
	F. Meier	frank.meier@psi.ch	muSR Pixel	1 w	piE5	
	D. Ries	d.ries@uni-mainz.de	UCN Detector	2 w	UCN W1/2	2 w
	D. Ries	d.ries@uni-mainz.de	UCN Storage	2 w	UCN W1	2 w
<b>4. Lab Courses</b>						
	<b>Spokesperson</b>	<b>Email</b>	<b>Experiment</b>	<b>Request</b>	<b>Area</b>	<b>Granted</b>
	A. Antognini	aldo@phys.ethz.ch	HD-MZ-ETH	2 weeks	piM1	2 w
	L. Caminada	lea.caminada@psi.ch	Uni Zurich	2 weeks	piM1	2 w

## BVRA-2022 list of New $\mu$ SR experiments

- 20213157 Exploring the microscopic superconducting and normal state properties of novel kagome superconductor  $\text{LaIr}_3\text{Ga}_2$   
Mielke, Charles  
Paul Scherrer Institut  
Accepted. 1 day Dolly
- 20213160 Possible spin-liquid state in the rare-earth based kagome antiferromagnets  $\text{R}_3\text{BWO}_9$  (R = Pr, Nd)  
Khuntia, Panchanana  
Indian Institute of Technology (IIT), Madras  
Accepted. 2 days GPS
- 20213162  $\mu$ SR study of a magnetic field induced instability in the kagome antiferromagnet Zn-brochantite  
Hotz, Fabian  
Univ. Zuerich  
Accepted. 9 days HAL-9500
- 20213164 Fate of a quantum spin liquid state at the surface: a case study on Zn-barlowite using low energy muon spin relaxation/rotation  
Hotz, Fabian  
Univ. Zuerich  
Accepted. 2 days LEM
- 20213168 Mu-MASS detection scheme  
Crivelli, Paolo  
ETH Zuerich  
Accepted . 5 days LEM
- 20213169 From Quantum Spin Liquid to Magnetic Order in a Kagome Antiferromagnet  
Simutis, Gediminas  
Paul Scherrer Institut  
Accepted. 4 days GPD
- 20213170 Exploring the microscopic superconducting and normal state properties of novel kagome superconductor  $\text{LaIr}_3\text{Ga}_2$   
Mielke, Charles  
Paul Scherrer Institut  
Accepted. 1 day GPS
- 20213172 Evolution of the normal state properties in hole-doped  $\text{Cs}(\text{V}, \text{Ti})_3\text{Sb}_5$  probed using muon spin rotation spectroscopy  
Wang, Chennan  
Paul Scherrer Institut  
Accepted. 2 days GPS
- 20213174 Evolution of the normal state properties in hole-doped  $\text{Cs}(\text{V}, \text{Ti})_3\text{Sb}_5$  probed using muon spin rotation spectroscopy  
Wang, Chennan  
Paul Scherrer Institut  
Accepted. 4 days HAL-9500

## BVRA-2022 list of New $\mu$ SR experiments

- 20212304 Investigation of GaFeO<sub>3</sub> magnetic order via LF- and ZF- $\mu$ SR  
Szymanski, Krzysztof  
Univ. of Bialystok  
Refused. 0 days GPS
- 20212375 Origin of the one-dimensional behavior in a quantum-spin-liquid candidate  
Shen, Yao  
Brookhaven National Lab.  
Refused. 0 days Dolly
- 20212965 Magnetic structure and short-range spin-spin correlations in Ce<sub>5</sub>Pb<sub>3</sub>, featuring triangular frustrated fragments.  
Plokhikh, Igor  
Paul Scherrer Institut  
Refused. 0 days GPS
- 20212970 High-temperature ferromagnetism in the diluted magnetic semiconductor  
Shengelaia, Alexander  
Univ. of Tbilisi  
Refused. 0 days GPS
- 20212974  $\mu$ SR Study of Sr<sub>3</sub>CoNb<sub>2</sub>O<sub>9</sub>: A Possible Quantum Spin-Liquid Candidate  
Athinarayanan, Sundaresan  
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)  
Refused. 0 days Dolly
- 20212976 Static and dynamic magnetism of a proposed S=2 Haldane chain compound La<sub>4</sub>FeOS<sub>6</sub>  
Sarkar, Rajib  
Technische Univ. Dresden  
Refused. 0 days GPS
- 20212977 Field-induced spin-liquid-like state in the S=1/2 honeycomb antiferromagnet Na<sub>2</sub>Co<sub>2</sub>TeO<sub>6</sub>  
Lee, Suheon  
Institute for Basic Science (IBS)  
Refused. 0 days HAL-9500
- 20212982 Superfluid density in a superconducting diode  
Dipl. Phys. Emily C McFarlane  
Max-Planck-Inst. Halle  
Refused. 0 days LEM
- 20212985  $\mu$ SR investigation of the pressure evolution of the magnetic state in the Weyl semimetal GdPtBi  
Majumder, Mayukh  
Shiv Nadar Univ.  
Refused . 0 days GPD

## BVRA-2022 list of New $\mu$ SR experiments

- 20212987  $\mu$ SR investigation of the Transverse Magnetic Field Induced quantum criticality in a quasi-one-dimensional antiferromagnet SrCo<sub>2</sub>V<sub>2</sub>O<sub>8</sub>  
Majumder, Mayukh  
Shiv Nadar Univ.  
Refused. 0 days HAL-9500
- 20212998 Competing magnetic orders and anomalous magnetism in Se-substituted Co<sub>3</sub>Sn<sub>2</sub>S<sub>2</sub>  
Huddart, Benjamin M  
Univ. of Durham  
Refused . 0 days GPS
- 20213001 Muon-spin spectroscopy study of the newly discovered multigap Ti<sub>4</sub>Ir<sub>2</sub>O  
superconductor  
Shang, Tian  
East China Normal University (ECNU)  
Refused. 0 days GPS
- 20213002 Search for unconventional superconductivity in new non-centrosymmetric  
superconductors  
Shang, Tian  
East China Normal University (ECNU)  
Refused. 0 days Dolly
- 20213016 Interplay of itinerant ferromagnetism and antiferromagnetism close to the quantum  
phase transition in Ni doped La<sub>5</sub>Co<sub>2</sub>Ge<sub>3</sub>  
Das, Atreyee  
Ames Laboratory, USDOE, Iowa State Univ.  
Refused . 0 days Dolly
- 20213019 Muon-spin spectroscopy study of the newly discovered multigap Ti<sub>4</sub>Ir<sub>2</sub>O  
superconductor  
Shang, Tian  
East China Normal University (ECNU)  
Refused . 0 days Dolly
- 20213020 Search for unconventional superconductivity in new non-centrosymmetric  
superconductors  
Shang, Tian  
East China Normal University (ECNU)  
Refused . 0 days HAL-9500
- 20213023 Superconducting gap symmetry of noncentrosymmetric PbTaSe<sub>2</sub> under applied  
pressure  
Shiroka, Toni  
ETH Zuerich & Paul Scherrer Institut  
Refused . 0 days GPD
- 20213024 Muon-spin spectroscopy study of the newly discovered non-centrosymmetric  
superconductor ThIrP  
Shiroka, Toni  
ETH Zuerich & Paul Scherrer Institut  
Refused. 0 daysDolly



## BVRA-2022 list of New $\mu$ SR experiments

- 20213026 London penetration depth in the new (Ca,Sr)Pd<sub>3</sub>P superconductor  
Lamura, Gianrico  
Consiglio Nazionale delle Ricerche/CNR-SPIN  
Refused. 0 days Dolly
- 20213030 Investigation of the superconducting properties of the Kagome superconductor LaIr<sub>3</sub>Ga<sub>2</sub> : A muon spin rotation and relaxation study  
Bhattacharyya, Amitava  
Ramakrishna Mission Vivekananda Educational and Research Institute  
Refused . 0 days Dolly
- 20213031 Exploring the magnetic ground state of a frustrated honeycomb layered oxide Li<sub>4</sub>FeSbO<sub>6</sub> using muon spin relaxation experiments  
Bhattacharyya, Amitava  
Ramakrishna Mission Vivekananda Educational and Research Institute  
Refused. 0 days GPS
- 20213033 Effect of magnetic impurity (Ni) on the formation of QSL like state in Li<sub>3</sub>Cu<sub>2</sub>SbO<sub>6</sub>  
Bhattacharyya, Amitava  
Ramakrishna Mission Vivekananda Educational and Research Institute  
Refused. 0 days Dolly
- 20213041 Search for ferromagnetic quantum critical point in heavy-fermion Kondo lattice CeCrGe<sub>3</sub> under hydrostatic pressure  
Das, Debarchan  
Paul Scherrer Institut  
Refused. 0 days GPD
- 20213044 Probing Possible Quantum Paramagnetism in Magnetically Diluted Honeycomb-Lattice-Based Compound Li<sub>3</sub>NiZnBiO<sub>6</sub>  
Athinarayanan, Sundaresan  
Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR)  
Refused. 0 days Dolly
- 20213048 Investigating magnetism in an intrinsic magnetic topological insulator film  
Chen, Yulin  
Oxford Univ.  
Refused. 0 days LEM
- 20213054 Double hierarchical magnetic frustration in hyperkagome magnets of Mn<sub>3</sub>RhSi and Mn<sub>3</sub>CoSi  
Shamoto, Shinichi  
CROSS  
Refused. 0 days GPS
- 20213055 Double hierarchical magnetic frustration in hyperkagome magnets of Mn<sub>3</sub>RhSi and Mn<sub>3</sub>CoSi  
Shamoto, Shinichi  
CROSS  
Refused. 0 days GPD

## BVRA-2022 list of New $\mu$ SR experiments

- 20213056 Hunting for surface magnetism in CsV<sub>3</sub>Sb<sub>5</sub>  
Lee, Suheon  
Institute for Basic Science (IBS)  
Refused. 0 days LEM
- 20213059 Variations of Magnetic and Multiferroic Properties in CuO nanoparticles  
Watanabe, Isao  
RIKEN  
Refused. 0 days GPS
- 20213064 Quantum disordered state in the doped Kitaev magnet Na<sub>3</sub>Co<sub>2-x</sub>Mg<sub>x</sub>SbO<sub>6</sub>  
Khuntia, Panchanana  
Indian Institute of Technology (IIT), Madras  
Refused. 0 days Dolly
- 20213068 Search for spin liquid ground state in the disorder free triangular lattice NaGdS<sub>2</sub> and LiYbS<sub>2</sub>  
Sarkar, Rajib  
Technische Univ. Dresden  
Refused. 0 days Dolly
- 20213070 Pressure-induced quantum phase transition in the triangular-lattice antiferromagnet Na<sub>2</sub>BaNi(PO<sub>4</sub>)<sub>2</sub>  
Jin, Wentao  
Beihang University  
Refused. 0 days GPD
- 20213077 Probe the static magnetism and dynamic spin fluctuations in (Sr<sub>2</sub>IrO<sub>4</sub>)<sub>m</sub>/(SrTiO<sub>3</sub>)<sub>n</sub> superlattices with large magnetoelectric coupling  
Hao, Sijie  
Beijing Normal Univ. (BNU)  
Refused. 0 days LEM
- 20213082 The origin of spontaneous magnetic fields in Sr<sub>2</sub>RuO<sub>4</sub>  
Grinenko, Vadim  
Shanghai Jiao Tong Univ.  
Refused. 0 days Dolly
- 20213083 Probing of the magnetic interaction in quasi-2D nickelates Nd<sub>4</sub>Ni<sub>3</sub>O<sub>8</sub>  
Huangfu, Shangxiang  
Eidg. Materialpruefungs- und Forschungsanstalt Duebendorf EMPA  
Refused. 0 days GPS
- 20213084 Possible spin-liquid state in the rare-earth based kagome antiferromagnets R<sub>3</sub>BWO<sub>9</sub> (R = Pr, Nd)  
Khuntia, Panchanana  
Indian Institute of Technology (IIT), Madras  
Refused. 0 days HAL-9500

## BVRA-2022 list of New $\mu$ SR experiments

- 20213085 Investigating the magnetic interactions on high-entropy layered double hydroxides  
Huangfu, Shangxiong  
Eidg. Materialpruefungs- und Forschungsanstalt Duebendorf EMPA  
Refused. 0 days GPS
- 20213090 Investigation of the quantum spin-liquid candidate Ba<sub>6</sub>Y<sub>2</sub>Rh<sub>2</sub>Ti<sub>2</sub>O<sub>17</sub> via muon spin relaxation  
Tripathi, Rajesh  
Jawaharlal Nehru Centre for Advanced Scientific Research  
Refused. 0 days Dolly
- 20213095 Canted Antiferromagnetism in V<sub>1/3</sub>NbS<sub>2</sub>  
Wilson, Murray N  
Univ. of Durham  
Refused. 0 days GPS
- 20213097  $\mu$ SR study of new superconductor LaIr<sub>3</sub>G<sub>2</sub> with Kagome lattice  
Shu, . Lei  
Fudan Univ.  
Refused. 0 days Dolly
- 20213101 Magnetic Spin Structure of Potassium Ion Battery Materials  
Elson, Frank J  
Royal Inst. of Technology (KTH)  
Refused. 0 days GPS
- 20213112 Exploring the interplay between the magnetism and superconductivity in 2H-VxTaS<sub>2</sub>  
Liu, Huanlong  
Univ. Zuerich  
Refused. 0 days Dolly
- 20213115 Magnetic ground state in a quasi-one-dimensional S= 1/2 chain compound AgCuVO<sub>4</sub>  
Pregelj, Matej  
Jozef Stefan Inst.  
Refused. 0 days Dolly
- 20213117 Exploring the interplay between the magnetism and superconductivity in 2H-VxTaS<sub>2</sub>  
Liu, Huanlong  
Univ. Zuerich  
Refused. 0 days GPD
- 20213119  $\mu$ SR studies of heavy fermion compounds CeIr<sub>3</sub>B<sub>2</sub> and PrIr<sub>3</sub>B<sub>2</sub> to investigate magnetic ordering  
Adroja, Devashibhai T  
Rutherford Appleton Lab.  
Refused. 0 days GPS
- 20213121 Probing 2D superconductivity in a bulk van der Waals superlattice framework:  $\mu$ SR study  
Das, Debarchan  
Paul Scherrer Institut  
Refused. 0 days Dolly

## BVRA-2022 list of New $\mu$ SR experiments

- 20213122 Superconductivity across the BaAlSi<sub>1-x</sub>Gex solid solution  
Walicka, Dorota I  
Univ. Zuerich  
Refused. 0 days Dolly
- 20213128 Onset of magnetic order in Fe<sub>(1-x)</sub>Co<sub>(x)</sub>Si  
Grefe, Julius  
Techn. Univ. Braunschweig  
Refused. 0 days GPS
- 20213138 Exploring the magnetic ground state in EuPdIn using muon spin relaxation.  
Tripathi, Rajesh  
Jawaharlal Nehru Centre for Advanced Scientific Research  
Refused. 0 days GPS
- 20213139 Fe nanocrystallite local magnetic ordering in thin films and magnetically tunable antiferromagnetic polarizing neutron mirrors  
Zubayer, Anton  
Linkoeping University  
Refused. 0 days LEM
- 20213144 Pressure effects within the phase diagram of Ti substituted Sr<sub>2</sub>RuO<sub>4</sub> system  
Khasanov, Rustem  
Paul Scherrer Institut  
Refused. 0 days GPD
- 20213153 Novel magnetic kagome superconductor LaRu<sub>3-x</sub>FexSi<sub>2</sub>  
Guguchia, Zurab  
Paul Scherrer Institut  
Refused. 0 days GPS
- 20213154 Novel magnetic kagome superconductor LaRu<sub>3-x</sub>FexSi<sub>2</sub>  
Guguchia, Zurab  
Paul Scherrer Institut  
Refused. 0 days HAL-9500
- 20213158 Tuning the kagome band structure in the superconductors CsV<sub>3</sub>Sb<sub>5</sub> and LaRu<sub>3</sub>Si<sub>2</sub> by uniaxial strain  
Mielke, Charles  
Paul Scherrer Institut  
Refused. 0 days GPS
- 20213159 Ferroquadrupolar nematic phase in S=3/2 Ru-dimer system Ba<sub>3</sub>Zn(Ru<sub>1-x</sub>Nbx)<sub>2</sub>O<sub>9</sub>; x=0, 0.12  
Sari, Dita P  
Shibaura Inst. of Technology  
Refused. 0 days GP

## BVRA-2022 list of Continued $\mu$ SR experiments

- 20212572 Spin freezing in Kitaev iridates exemplified by Mg-doped  $\text{Li}_2\text{IrO}_3$   
Zubtsovskii, Aleksandr  
Univ. Augsburg  
Accepted. 2 days GPS  
Continuation of 20190309
- 20212966 Unconventional superconductivity in single crystalline  $\text{YFe}_2\text{Ge}_2$   
Chen, Jiasheng  
Univ. of Cambridge  
Accepted, 3 days HAL-9500  
Continuation of 20202533
- 20212984  $\mu$ SR Study of the Quantum Critical Frustrated Kagome Compound  $\text{CePd}_{1-x}\text{Ni}_x\text{Al}$   
Majumder, Mayukh  
Shiv Nadar Univ.  
Accepted. 2 days Dolly  
Continuation of 20202569
- 20213011 Bulk Damage in 4H-SiC after Al Implantation  
Wörle, Judith  
ETH Zürich  
Accepted. 4 days LEM  
Continuation of 20211438
- 20213012 Elucidating the role of the phase boundary wall in the dynamics of the first-order magnetic phase transition in FeRh.  
Massey, Jamie R  
ETH Zuerich - Paul Scherrer Institut  
Accepted  
4 days LEM  
Continuation of 20210853
- 20213021 Pressure dependence of high-temperature ferromagnetism in a Cr-based metal-organic framework  
Prando, Giacomo  
Univ. degli Studi di Pavia  
Accepted. 4 days GPD  
Continuation of 20211388
- 20213025 Pressure dependence of high-temperature ferromagnetism in a Cr-based metal-organic framework  
Prando, Giacomo  
Univ. degli Studi di Pavia  
Accepted. 1 days Dolly  
Continuation of 20211388
- 20213032 High-pressure studies of the triangular-lattice antiferromagnet  $\text{Cs}_2\text{CuBr}_4$  (II)  
Zvyagin, Sergei  
Helmholtz-Zentrum Dresden-Rossendorf (HZDR)  
Accepted.  
4 days GPD  
Continuation of 20192014

## BVRA-2022 list of Continued $\mu$ SR experiments

- 20213039 Lithium ion diffusion at the cathode – solid-state electrolyte interface in microbatteries: PART II  
Mansson, Martin  
Royal Inst. of Technology (KTH)  
Accepted. 7 days LEM  
Continuation of 20202504
- 20213052 Hydrogen (shallow  $\mu$ ) donor in wide gap Ga<sub>2</sub>O<sub>3</sub>  
De Renzi, Roberto  
Univ. Parma  
Refused. 0 days GPS  
Continuation of 20192088
- 20213053 Investigation of the stoichiometric layered topological insulators MnSb<sub>2</sub>Te<sub>4</sub>  
De Renzi, Roberto  
Univ. Parma  
Accepted. 3 days GPS  
Continuation of 20202619
- 20213057  $\mu$ SR Study of the Strain-Induced Magnetism and Superconductivity in Iron-Chalcogenide Thin Films  
Adachi, Tadashi  
Sophia Univ.  
Accepted. 7 days LEM  
Continuation of 20202618
- 20213060 Investigation on the Magnetic Ordering and Spin Dynamics of Nd spin in (Nd<sub>1-x</sub>Cax)<sub>2</sub>Ru<sub>2</sub>O<sub>7</sub> by Using Muon Spin Relaxation Down to Sub-Kelvin Temperature Region  
Widyaiswari, Utami  
RIKEN  
Accepted. 3 days Dolly  
Continuation of 20202599
- 20213066 In-situ illumination Longitudinal Field (LF) and Zero Field (ZF) Muon Spin Rotation ( $\mu$ SR) study of photochromic yttrium oxyhydride thin films  
Eijt, Stephan W.H.  
Delft Univ. of Technology  
Accepted. 3 days LEM  
Continuation of 20190277
- 20213067 MIXE (Muon-Induced X-ray Emission)  
Amato, Alex  
Paul Scherrer Institut  
Accepted. 20 days Dolly  
Continuation of 20202663

## BVRA-2022 list of Continued $\mu$ SR experiments

- 20213072 Pressure-induced phase diagram of the three dimensional quantum spin liquid  
PbCuTe<sub>2</sub>O<sub>6</sub>  
Chillal, Shravani  
Helmholtz Zentrum Berlin fuer Materialien und Energie  
Accepted. 7 days GPD  
Continuation of 20202594
- 20213073 Low temperature spin-dynamics study on the quantum spin liquid candidate  
Ba<sub>4</sub>Nb<sub>0.8</sub>Ir<sub>3.2</sub>O<sub>12</sub> using muon spectroscopy  
Chattopadhyay, Sumanta  
Helmholtz-Zentrum Dresden-Rossendorf (HZDR)  
Accepted. 2 days Dolly  
Continuation of 20211421
- 20213089 Discerning the two transitions present in the 2D magnet VI3  
Forslund, Ola Kenji  
Royal Inst. of Technology (KTH)  
Accepted. 2 days GPS  
Continuation of 20202598
- 20213091 Vortices in Sr<sub>2</sub>RuO<sub>4</sub> with split time-reversal symmetry breaking and superconducting  
transition temperatures  
Grinenko, Vadim  
Shanghai Jiao Tong Univ.  
Accepted. 5 days Dolly  
Continuation of 20180611
- 20213094 Odd Frequency Proximity Effect in Pb/InSb superconductor/semiconductor 2DEG  
heterostructures  
Robinson, Thomas P  
Univ. of Cardiff  
Accepted. 2 days LEM  
Continuation of 20202617
- 20213096 Search for the quartic phase in KFe<sub>2</sub>As<sub>2</sub> under uniaxial strain  
Grinenko, Vadim  
Shanghai Jiao Tong Univ.  
Accepted. 4 days Dolly  
Continuation of 20180674
- 20213100 Investigation of the electric field effect in a conventional superconductor  
Di Bernardo, Angelo  
Univ. Konstanz  
Accepted. 3 days LEM  
Continuation of 20211432
- 20213104 Systematic study of spin dynamics in the heavy rare-earth pyrochlore iridates – the  
case of Lu<sub>2</sub>Ir<sub>2</sub>O<sub>7</sub> and Ho<sub>2</sub>Ir<sub>2</sub>O<sub>7</sub>  
Colman, Ross H  
Charles University  
Accepted. 2 days GPS  
Continuation of 20202600

## BVRA-2022 list of Continued $\mu$ SR experiments

- 20213113 Charge-carrier density manipulation in 4H-SiC MOS capacitor  
KaiserlMartins, Maria  
ETH Zürich  
Accepted. 8 days LEM  
Continuation of 20211446
- 20213123 Muon spin relaxation study of the quantum spin liquid candidate YbOCl  
Ma, Jie  
Shanghai Jiao Tong Univ.  
Accepted. 3 days HAL-9500  
Continuation of 20210885
- 20213127 Magnetic surface state in grainy palladium films and the influence of structural properties  
Welker, Gesa  
Delft Univ. of Technology  
Accepted. 4 days LEM  
Continuation of 20171096
- 20213136 Effect of exchange interaction on the relaxation dynamics of Tb-based molecular nanomagnets: a possible path to extreme magnetization slowdown  
Lascialfari, Alessandro  
Univ. degli Studi di Pavia  
Accepted. 4 days GPS  
Continuation of 20152098
- 20213141 Discerning the two transitions present in the 2D magnet VI3  
Forslund, Ola Kenji  
Royal Inst. of Technology (KTH)  
Accepted. 5 days GPD  
Continuation of 20202598
- 20213142 Pressure-tuned interactions in the magnetically driven  $\text{Nd}_x\text{Ce}_{1-x}\text{CoIn}_5$  superconductor. (continuation)  
Margineda, Daniel  
Scuola Normale Superiore  
Refused. 0 days GPD  
Continuation of 20202589
- 20213146 Dynamics of Epoxy Resin at a Solid Interface Probed by Low Energy Muon  
Aoki, Hiroyuki  
Japan Atomic Energy Agency  
Accepted. 7 days LEM  
Continuation of 20202046
- 20213165 Search for the quartic phase in  $\text{KFe}_2\text{As}_2$  under uniaxial strain  
Grinenko, Vadim  
Shanghai Jiao Tong Univ.  
Accepted. 1 days GPS  
Continuation of 20180674



## BVRA-2022 list of Continued $\mu$ SR experiments

- 20213166 Investigating the effect of changing the lanthanide ion in polyoxometalates single-ion magnet of the family  $[\text{Ln}(\text{W}_5\text{O}_{18})_2]_n$   
Vieira, Ricardo  
Univ. of Aveiro  
Accepted. 1 days GPS  
Continuation of 20202559
- 20213167 Strong frustration in  $\text{Sr}_2\text{Rh}_0.6\text{Ir}_0.4\text{O}_4$ . A new candidate for a quantum spin liquid on a square lattice?  
Zimmermann, Valentin L.  
Max Planck Inst. for Solid State Research  
Accepted. 1 days Dolly  
Continuation of 20211428
- 20213171 Pressure-tuned interactions in the magnetically driven  $\text{Nd}_x\text{Ce}_{1-x}\text{CoIn}_5$  superconductor. (continuation)  
Margineda, Daniel  
Scuola Normale Superiore  
Refused. 0 days Dolly  
Continuation of 20202589
- 20213173 Weyl-mediated helical magnetism in  $\text{NdAlSi}$   
Klauss, Hans-Henning  
Technische Univ. Dresden  
Accepted. 1 days GPS  
Continuation of 20180647
- 20213175 Weyl-mediated helical magnetism in  $\text{NdAlSi}$   
Klauss, Hans-Henning  
Technische Univ. Dresden  
Accepted. 3 days HAL-9500  
Continuation of 20180647