

PSI, Villigen  
February 8, 2024

**MINUTES "BESCHLUSSKONFERENZ"  
OF THE USERS MEETING BV 55 AT PSI  
Feb 8, 2024**

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

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

# 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 June 3 to December 23, 2024. A schedule has been worked out which satisfies most beam requests.

As usual, the beam schedules 2024 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 56 is scheduled for February 10-12, 2025. The first day is reserved for detailed reviews as usual. The deadline for beam requests, new proposals and addenda is January 24, 2025. Users are requested to make electronic submissions of their documents.

The next meeting BVRA-2025 is scheduled for January 22-23, 2025.

## Attachments

- PSI 590 MeV HE Program 2024 can also be found on <https://www.psi.ch/de/sbl/schedules>
- BV55 list of PSI HE experiments
- BVRA-24 List of New  $\mu$ SR experiments
- BVRA-24 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>

# PSI 590 MeV Program 2024

## Beam Allocations 2024

				Month		April		May		June		July		August		September		October		November		December																																					
<a href="https://www.psi.ch/de/sbi/schedules">https://www.psi.ch/de/sbi/schedules</a>		<stefan.ritt@psi.ch>		Week number		14	15	16	17	18	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																
Last upd: 4/4/2024 7:40:14				Availability		[Color-coded availability grid]																																																					
				Days		[Days 0-7]																																																					
				Start (Monday)		[Start dates from Apr/1/24 to Dec/1/24]																																																					
				End (Sunday)		[End dates from Apr/7/24 to Dec/7/24]																																																					
Area	Experiment	PSI Contact	End (Sunday)																																																								
PIM3	MuSR (GPS&LTF)	Luetkens	Luetkens (coord.)																																																								
PIE3	MuSR high field	Scheuermann	Scheuermann (coord.)																																																								
MuE1	MuSR (GPD)	Khasanov	Khasanov (coord.)																																																								
	R-21-02.1 muEDM	Khasanov	Schmidt-Wellenb.																																																								
	R-24-01.1 X-Lent	Khasanov	Collar																																																								
MuE4	MuSR (LEM)	Prokscha	Prokscha (coord.)																																																								
PIE1-1	MuSR (Dolly)	Shiroka	Shiroka (coord.)																																																								
	MIXE	Shiroka	Amato/Knecht																																																								
PIE1-2	R-14-02.1 muCool	Antognini	Antognini																																																								
	R-21-02.1 muEDM	Schmidt-Wellenb.	Schmidt-Wellenb.																																																								
	R-21-03.1 Anvil	Antognini	Knaian																																																								
	R-22-02.1 LEMING	Antognini	Soter																																																								
	R-23-02.1 QUARTET	Antognini	Ohayon																																																								
	R-23-03.1 ReferenceRadII	Antognini	Cocolios																																																								
PIE5	R-99-05.2 MEG	Papa	Mori																																																								
	R-12-03.1 Mu3E	Knecht	Schoening																																																								
UCN-S	R-05-03.1 n2EDM	Lauss	Lauss																																																								
UCN-W1	R-23-01.1 tSPECT	Lauss	Fertl																																																								
PIM1	R-12-03.1 Mu3E	Schmidt-Wellenb.	Schoening																																																								
	R-12-01.2 MUSE	Reggiani	Downie																																																								
	R-21-02.1 muEDM	Schmidt-Wellenb.	Schmidt-Wellenb.																																																								
	Praktikum ETHZ	Antognini	Soter																																																								
	Praktikum UZH	Schmidt-Wellenb.	Caminada																																																								
	RadLength	Schmidt-Wellenb.	Koch																																																								
	uRwell	Schmidt-Wellenb.	Poli Lener																																																								
	IOV1	Schmidt-Wellenb.	Losekamm																																																								

# BV55 LIST OF PSI $\pi$ / $\mu$ EXPERIMENTS: BEAM REQUESTS AND ALLOCATIONS 2024

## 1. New Lols

None

## 2. New Proposals

Proposal No.	Spokesperson	Email	Experiment	Request [w]	Area	Granted [w]	Reviewers
R-23-01.1	M. Fertl	mfertl@uni-mainz.de	tSPECT	29	UCN W1	29	<b>B. Filippone</b> , G. Greene, B. Sauer, M. Ramsey-Musolf
R-23-02.1	B. Ohayon	benohayon@physics.technion.ac.il	QUARTET	2.5	piE1	2	<b>C. Curceanu</b> , P. Kammel, L. Baudis, G. Colangelo,
R-23-03.1	T. Cocolios	thomas.cocolios@kuleuven.be	ReferenceRadii	2.5	piE1	1	<b>G. Greene</b> , L. Baudis, G. Colangelo, B. Filippone
R-24-01.1	J. Collar	collar@uchicago.edu	X-lent	1.5	muE1	1	<b>L. Baudis</b> , C. Curceanu, B. Filippone, B. Sauer, M. Ramsey-Musolf

## 3. Progress Reports and Beam Requests

Proposal No.	Spokesperson	Email	Experiment	Request	Area	Granted	Reviewers
R-99-05.2	T. Mori A. Baldini	mori@icepp.s.u-tokyo.ac.jp baldini@pi.infn.it	MEG II	29	piE5	23+(6)	<b>M. Iodice</b> , D. Bryman, C. Hoffman, U. Uwer, L. Baudis, M. Ramsey-Musolf, P. Riedler
R-05-03.1	B. Lauss G. Pignol	bernhard.lauss@psi.ch guillaume.pignol@lpsc.in2p3.fr	n2EDM	29	UCN South	29	<b>B. Sauer</b> , B. Filippone, D. Bryman, C. Curceanu, G. Greene
R-12-01.2	Gilman, R. Downie, E.	rgilman@physics.rutgers.edu edownie@gwu.edu	MUSE	26	piM1	22	<b>G. Greene</b> , G. Colangelo, B. Filippone, P. Kammel, B. Sauer, C. Curceanu
R-12-03.1	Schoening, A. Ritt, S.	andre.schoening@desy.de stefan.ritt@psi.ch	Mu3e	8	piE5	(6)	<b>P. Kammel</b> , C. Hoffman, R. Horisberger, P. Riedler, St. Passaggio, U. Uwer, M. Ramsey-Musolf
R-14-02.1	A. Antognini	aldo.antognini@psi.ch	muCool	4.5	piE1	3.5	<b>P. Kammel</b> , M. Iodice, D. Bryman, G. Colangelo
R-19-01.1	P. Crivelli	Paolo.Crivelli@cern.ch	MuMass	None	LEM		<b>P. Kammel</b> , M. Iodice, D. Bryman, G. Colangelo
R-20-01.1	Zinatulina, D.	zinatulina@jinr.ru	OMC4BDB	None	piE1		<b>M. Ramsey-Musolf</b> , P. Kammel, L. Baudis, C. Curceanu
R-21-02.1	P. Schmidt-Welle	philipp.schmidt-wellenburg@psi.ch	muEDM	1 + 2 + 3	muE1 + piM1 + piE1	1+2+1	<b>B. Sauer</b> , G. Greene, D. Bryman, B. Filippone, G. Colangelo
R-21-03.1	A. Knaian	ara@nklabs.com	Anvil	4	piE1	2	<b>C. Curceanu</b> , P. Kammel, C. Hoffman, L. Baudis
R-22-01.1	D. Bryman D. Hertzog T. Mori	doug@triumf.ca hertzog@uw.edu mori@icepp.s.u-tokyo.ac.jp	PIONEER	None	piE1		<b>L. Baudis</b> , C. Curceanu, St. Passaggio, B. Sauer, M. Ramsey-Musolf
R-22-02.1	A. Soter	anna.soter@psi.ch	LEMING	3	piE1	3	<b>D. Bryman</b> , P. Kammel, C. Curceanu, Ben Sauer, M. Ramsey-Musolf, G. Colangelo

## 4. Test Beam Requests

Spokesperson	Email	Experiment	Request	Area	Granted	Reviewer
S. Koch	simon.florian.koch@cern.ch	RadLength	2	piM1	1	<b>U. Uwer</b>
M. Losekamm	m.losekamm@tum.de	IOV1	1	piM1	0	<b>C. Hoffman</b>
M. Poli Lener	marco.polilener@lnf.infn.it	uRwell	2	piM1	1	<b>U. Uwer</b>

## 5. Lab Courses (Praktikum)

Spokesperson	Email	Experiment	Request	Area	Granted
Soter, A.	anna.soter@psi.ch	HD-MZ-ETHZ	2	piM1	2
Caminada, L.	lea.caminada@psi.ch	UZ-UBasel	1	piM1	1

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231269 Investigation of a possible quantum spin liquid ground state in Quantum Spin Liquid in TbTa<sub>7</sub>O<sub>19</sub> using Muon spin relaxation  
Adroja, Devashibhai  
Rutherford Appleton Lab.  
Accepted  
2 days FLAME
- 20231330 Evaluation of spin liquid ground state by  $\mu$ SR study of the highly frustrated Co<sup>2+</sup> with effective spin-1/2 zigzag chain antiferromagnet: ZnCoP<sub>2</sub>O<sub>7</sub>  
Adroja, Devashibhai  
Rutherford Appleton Lab.  
Accepted  
2 days FLAME
- 20231277 Search for magnetic order and measurement of spin dynamics in the triangular lattice compound NdMgAl<sub>11</sub>O<sub>19</sub>  
Blundell, Stephen  
Univ. of Oxford  
Accepted  
2 days FLAME
- 20231278 The triangular lattice quantum spin liquid candidate KYbSe<sub>2</sub>  
Blundell, Stephen  
Univ. of Oxford  
Accepted  
2 days FLAME
- 20231224 Electrical behavior of hydrogen in tin monoxide SnO studied by means of  $\mu$ SR  
Chaplygin, Igor  
Technische Univ. Dresden  
Accepted  
3 days LEM
- 20231344 Mu-MASS experiment at LEM (continuation)  
Crivelli, Paolo  
ETH Zuerich  
Accepted  
7 days LEM
- 20231361 Quest for quantum spin liquid ground state in 2D triangular antiferromagnet  
Devi, Sheetal  
Forschungszentrum Juelich  
Accepted  
2 days Dolly

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231201      Magnetic order in thin films of CaCuO<sub>2</sub>, the infinite-layer parent compound of high-T<sub>c</sub> cuprate superconductors  
Di Castro, Daniele  
Univ of Rome Tor Vergata  
Accepted  
5 days LEM
- 20231333      Magnetic quantum criticality underpinning spin-triplet superconductivity in high-pressure UTe<sub>2</sub>  
Eaton, Alexander  
Univ. of Cambridge  
Accepted  
8 days GPD
- 20231332      Temperature and strain dependence of complex helimagnetic phases in SrFeO<sub>3</sub>  
Fowlie, Jennifer  
Univ. Stanford  
Accepted  
4 days LEM
- 20231279      Sn<sub>1-x</sub>In<sub>x</sub>Bi<sub>2</sub>Te<sub>4</sub> - A new topological superconductor  
Gardner, Jason  
Oak Ridge National Lab.  
Accepted  
1 days FLAME
- 20231280      Sn<sub>1-x</sub>In<sub>x</sub>Bi<sub>2</sub>Te<sub>4</sub> - A new topological superconductor  
Gardner, Jason  
Oak Ridge National Lab.  
Accepted  
1 days GPS
- 20231370      The study of film-forming amines on alloys used in nuclear reactors  
Ghandi, Khashayar  
Univ. of Guelph  
Accepted  
7 days LEM
- 20231322      Exploring normal and superconducting state properties of Ternary Scandium Tellurides, Sc<sub>6</sub>MTe<sub>2</sub> (M = Fe, Ru, Ir)  
Graham, Jennifer  
Paul Scherrer Institut  
Accepted  
1 days GPS
- 20231325      Exploring normal and superconducting state properties of Ternary Scandium Tellurides, Sc<sub>6</sub>MTe<sub>2</sub> (M = Fe, Ru, Ir)  
Graham, Jennifer  
Paul Scherrer Institut  
Accepted  
6 days HAL-9500

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231339 Possible superconductivity with broken time-reversal symmetry in nodal-line semimetal  $\text{CaAg}_{1-x}\text{PdxP}$   
Grinenko, Vadim  
Shanghai Jiao Tong Univ.  
Accepted  
2 days Dolly
- 20231334 The effect of c-axis strain on superconductivity and spin-stripe order in the cuprate system  $\text{La}_{2-x}\text{BaxCuO}_4$   
Guguchia, Zurab  
Paul Scherrer Institut  
Accepted  
7 days Dolly
- 20231335 The effect of c-axis strain on superconductivity and spin-stripe order in the cuprate system  $\text{La}_{2-x}\text{BaxCuO}_4$   
Guguchia, Zurab  
Paul Scherrer Institut  
Accepted  
1 days GPS
- 20231362 Field and pressure dependence of the muon spin relaxation rate in the superconducting and charge density wave state of the bulk vdW heterostructure  $6\text{R-TaS}_2$   
Guguchia, Zurab  
Paul Scherrer Institut  
Accepted  
10 days HAL-9500
- 20231364 Field and pressure dependence of the muon spin relaxation rate in the superconducting and charge density wave state of the bulk vdW heterostructure  $6\text{R-TaS}_2$   
Guguchia, Zurab  
Paul Scherrer Institut  
Accepted  
6 days GPD
- 20231223 Searching for evidence of SDW in  $\text{La}_3\text{Ni}_2\text{O}_7$  and  $\text{La}_4\text{Ni}_3\text{O}_{10}$   
Guo, Hanjie  
Songshan Lake Materials Lab.  
Accepted  
2 days GPS
- 20231238  $\mu$ SR studies on the honeycomb-lattice magnet  $\text{Ba}_9\text{Yb}_2(\text{SiO}_4)_6$   
Guo, Hanjie  
Songshan Lake Materials Lab.  
Accepted  
2 days FLAME

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231304 Studying the altermagnetic state in Cr and Co substituted FeSb<sub>2</sub>  
Hicken, Thomas  
Paul Scherrer Institut  
Accepted  
2 days GPS
- 20231307 Incommensurate magnetic order in centrosymmetric Gd alloys  
Hicken, Thomas  
Paul Scherrer Institut  
Accepted  
3 days GPS
- 20231327 Incommensurate magnetic order in centrosymmetric Gd alloys  
Hicken, Thomas  
Paul Scherrer Institut  
Accepted  
2 days FLAME
- 20231310 Probing the chiral soliton lattice host Cr<sub>1/3</sub>NbS<sub>2</sub> under the application of hydrostatic pressure  
Hicken, Thomas  
Paul Scherrer Institut  
Accepted  
6 days GPD
- 20231316 Understanding the magnetic behaviour of a defect-free gapless U(1) Dirac Quantum Spin Liquid  
Hicken, Thomas  
Paul Scherrer Institut  
Accepted  
2 days FLAME
- 20231257 Determining the muon sites in a range of quantum spin liquid structure types  
Huddart, Benjamin  
Univ. of Oxford  
Accepted  
3 days GPS
- 20231363  $\mu$ SR study of  $J_{\text{eff}} = 1/2$  triangular lattice antiferromagnet Ba<sub>6</sub>Nd<sub>2</sub>Ti<sub>4</sub>O<sub>17</sub>  
Islam, Shams  
Paul Scherrer Institut  
Accepted  
2 days FLAME
- 20231294 Magnetic Phase Coupling in SrCrO<sub>3</sub>/LaCrO<sub>3</sub> Superlattices as Function of Layer Thickness  
Jöhr, Simon  
Univ. Zuerich  
Accepted  
4 days LEM

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231219 Time reversal symmetry breaking in 4Hb-TaS<sub>2</sub>  
Kanigel, Amit  
The Israel Inst. of Technology - Technion  
Accepted  
4 days FLAME
- 20231250 Time reversal symmetry breaking in 4Hb-TaS<sub>2</sub>  
Kanigel, Amit  
The Israel Inst. of Technology - Technion  
Accepted  
6 days HAL-9500
- 20231324 Possible classical spin liquid state in S = 1 Kagome lattice antiferromagnet  
Khatua, Joydev  
Sungkyunkwan University  
Accepted  
2 days FLAME
- 20231240 Magnetic properties of 3D to 2D crossover in LaFeO<sub>3</sub>/LaAlO<sub>3</sub> superlattices  
Kiaba, Michael  
Masaryk Univ.  
Accepted  
5 days LEM
- 20231376 Dynamic spin fluctuations in the proposed S=2 Haldane chain compound La<sub>4</sub>FeOS<sub>6</sub>  
Klauss, Hans-Henning  
Technische Univ. Dresden  
Accepted  
3 days FLAME
- 20231369 Altermagnetic phase transitions and epitaxial strain in MnTe  
Krieger, Jonas  
Paul Scherrer Institut  
Accepted  
3 days GPS
- 20231381 Altermagnetic phase transitions and epitaxial strain in MnTe  
Krieger, Jonas  
Paul Scherrer Institut  
Accepted  
5 days LEM
- 20231371 Enantiomer controlled anomalous hyperfine coupling in chiral topological semimetals  
Krieger, Jonas  
Paul Scherrer Institut  
Accepted  
5 days HAL-9500

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231204    Static and dynamic magnetism of a new highly frustrated double trillium lattice  
Lake, Bella Alysia  
Helmholtz Zentrum Berlin fuer Materialien und Energie  
Accepted  
3 days FLAME
- 20231220    Static and dynamic magnetism of a new highly frustrated double trillium lattice  
Lake, Bella Alysia  
Helmholtz Zentrum Berlin fuer Materialien und Energie  
Accepted  
1 days GPS
- 20231202    Evolution of magnetism in the intercalated transition-metal dichalcogenide family  
M1/3NbS2  
Lancaster, Tom  
Univ. of Durham  
Accepted  
3 days GPS
- 20231215    Magnetization plateaux in the molecular trimer system Ni<sub>3</sub>(acac)<sub>6</sub>(pym)<sub>4</sub>  
Lancaster, Tom  
Univ. of Durham  
Accepted  
4 days HAL-9500
- 20231193    Novel ground state in the buckled-triangular antiferromagnet DyInO<sub>3</sub>  
Lee, Suheon  
Inst. for Basic Science (IBS)  
Accepted  
2 days Dolly
- 20231281    Investigation the Dirac quantum-spin-liquid state in YCu<sub>3</sub>(OH)<sub>6</sub>[(ClxBr1-x)<sub>3</sub>-y(OH)y]  
single crystals using Muon spin relaxation  
Li, Shiliang  
Chinese Academy of Sciences  
Accepted  
2 days Dolly
- 20231343    Elucidating the ground state of a 3D quantum spin-liquid candidate Sr<sub>3</sub>CuNb<sub>2</sub>O<sub>9</sub>  
Majumder, Mayukh  
Shiv Nadar Univ.  
Accepted  
2 days Dolly
- 20231331    Investigating low-temperature spin glass phase in Weyl Semimetal Mn<sub>3</sub>Sn  
Miniotaite, Ugne  
Royal Inst. of Technology (KTH)  
Accepted  
4 days GPS

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231227 A muon SR study of local magnetism under transverse magnetic field in NdFeO<sub>3</sub> single crystals  
Moreira, Joaquim Agostinho  
FACULDADE DE CIENCIAS DA UNIVERSIDADE DO PORTO  
Accepted  
8 days HAL-9500
- 20231272 A muon SR study of local magnetism under transverse magnetic field in NdFeO<sub>3</sub> single crystals  
Moreira, Joaquim Agostinho  
FACULDADE DE CIENCIAS DA UNIVERSIDADE DO PORTO  
Accepted  
1 days GPS
- 20231242  $\mu$ SR study on the honeycomb quantum magnet BaCo<sub>2</sub>(AsO<sub>4</sub>)<sub>2</sub>  
Mukharjee, Prashanta Kumar  
Univ. Augsburg  
Accepted  
2 days GPS
- 20231348  $\mu$ SR study of a  $S = 5/2$  highly frustrated trillium lattice antiferromagnet CsBaFe<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>  
Nath, Ramesh  
Indian Institute of Science Education and Research Thiruvananthapuram (IISER-TVM)  
Accepted  
2 days GPS
- 20231351  $\mu$ SR to probe spin-liquid like ground state in the trillium lattice antiferromagnet KBaFe<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>  
Nath, Ramesh  
Indian Institute of Science Education and Research Thiruvananthapuram (IISER-TVM)  
Accepted  
2 days FLAME
- 20230803 Hidden order in Nd triangular lattice compound  
Reig, Dalmau  
ETH Zuerich  
Accepted  
2 days FLAME
- 20231260 Tuning the superfluid density of hole-doped 2D Kagome CsV<sub>3</sub>Sb<sub>5</sub> by pressure  
Sanna, Samuele  
Univ. of Bologna  
Accepted  
8 days GPD
- 20231319 Tuning spin liquid state of hyperkagome magnet PbCuTe<sub>2</sub>O<sub>6</sub> by uniaxial pressure  
Sarkar, Rajib  
Technische Univ. Dresden  
Accepted  
6 days Dolly

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231298 MuSR investigation of magnetic order in clinoatacamite  
Schulze, Aaron  
Techn. Univ. Braunschweig  
Accepted  
2 days GPS
- 20231249 Investigating the unconventional pairing of the  $\text{Sc}_2\text{Ir}_4\text{-xSix}$  kagome-lattice superconductor via  $\mu$ SR  
Shang, Tian  
East China Normal University (ECNU)  
Accepted  
3 days Dolly
- 20231282 Superconducting order parameter of a Re-based kagome lattice system with a topological band structure  
Smidman, Michael  
Zhejiang Univ.  
Accepted  
2 days Dolly
- 20231320 Probing competing and coexisting magnetic behaviours in a Kondo ferromagnet  
Smidman, Michael  
Zhejiang Univ.  
Accepted  
2 days Dolly
- 20231251 Interrelationship between ion diffusion and pressure in battery materials  
Sugiyama, Jun  
CROSS  
Accepted  
1 days Dolly
- 20231323  $\mu$ SR Investigation under pressure on noncentrosymmetric superconductor  $\text{LaNiC}_2$   
Sundar, Shyam  
Univ. of St Andrews  
Accepted  
8 days GPD
- 20231243 Improving the interface of  $\text{Cu}(\text{In,Ga})\text{S}_2$  for photoelectrochemical cell applications  
Vilao, Vilao  
Univ. of Coimbra  
Accepted  
5 days LEM
- 20231317 A slowly fluctuating antiferromagnetic vortex-antivortex phase?  
Fluctuations and their properties in the DMI-magnet  $\text{Ba}_2\text{CuGe}_2\text{O}_7$   
Wild, Peter  
Techn. Univ. Muenchen  
Accepted  
2 days FLAME

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231226      Magnetic ground state in a new spin-1/2 staggered triangular antiferromagnet: spin liquid or spin glass?  
Xu, Fanjun  
Helmholtz Zentrum Berlin fuer Materialien und Energie  
Accepted  
2 days FLAME
- 20231367      Magnetic ground state in a new spin-1/2 staggered triangular antiferromagnet: spin liquid or spin glass?  
Xu, Fanjun  
Helmholtz Zentrum Berlin fuer Materialien und Energie  
Accepted  
2 days GPS
- 20231293      Magnetically disordered ground state of a highly anisotropic triangular antiferromagnet  
Zorko, Andrej  
Jozef Stefan Inst.  
Accepted  
4 days FLAME
- 20231266       $\mu$ SR study on a triangular lattice compound SmTa7O19: A candidate for a quantum spin-liquid  
Adroja, Devashibhai  
Rutherford Appleton Lab.  
Refused  
0 days FLAME
- 20231275       $\mu$ SR investigation of the superconducting state of 2H-NbS<sub>2</sub> at high magnetic field  
Alshemi, Ahmed  
Univ. Lund  
Refused  
0 days HAL-9500
- 20231258      Muon spin relaxation study on quasi-1D spin-1/2 chain compound Pb5Re3O15  
Anand, Vivek  
Univ. of Stavanger  
Refused  
0 days FLAME
- 20231300      Muon spin relaxation study of Hidden Ordering and Spin-glass-like transitions in Gd<sub>2</sub>Hf<sub>2</sub>O<sub>7</sub>  
Anand, Vivek  
Univ. of Stavanger  
Refused  
0 days FLAME

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231301 Muon spin relaxation measurements on Kondo lattice antiferromagnet  $\text{Ce}_2\text{Rh}_3\text{Sn}_5$  and CEF-singlet  $\text{Pr}_2\text{Rh}_3\text{Ge}_5$   
Anand, Vivek  
Univ. of Stavanger  
Refused  
0 days GPS
- 20231268 Microscopic study of two new locally non-centrosymmetric systems,  $\text{Ce}_2(\text{Ir,Rh})_3\text{Ga}_5$  via  $\mu$ SR  
Arushi, Arushi  
Max Planck Inst. for Chemical Physics of Solids  
Refused  
0 days GPS
- 20231305 Microscopic study of two new locally non-centrosymmetric systems,  $\text{Ce}_2(\text{Ir,Rh})_3\text{Ga}_5$  via  $\mu$ SR  
Arushi, Arushi  
Max Planck Inst. for Chemical Physics of Solids  
Refused  
0 days FLAME
- 20231382 Investigation of possible quantum spin liquid ground state in d4 iridium double perovskite  $\text{PrSrMgIrO}_6$  using muon-spin-rotation/relaxation  
Bandyopadhyay, Abhishek  
Rutherford Appleton Lab.  
Refused  
0 days FLAME
- 20231271 Understanding the effect of the solvent on the rate of muonium addition to aniline – A continuation  
Berlie, Adam  
Rutherford Appleton Lab.  
Refused  
0 days GPD
- 20231274 Spin liquid behaviour in Ising antiferromagnets with the hexagonal perovskite structure  $\text{Ba}_6\text{RE}_2\text{Ti}_4\text{O}_{17}$  (RE = Nd, Dy, and Yb)  
Blundell, Stephen  
Univ. of Oxford  
Refused  
0 days GPS
- 20231276 Spin liquid behaviour in Ising antiferromagnets with the hexagonal perovskite structure  $\text{Ba}_6\text{RE}_2\text{Ti}_4\text{O}_{17}$  (RE = Nd, Dy, and Yb)  
Blundell, Stephen  
Univ. of Oxford  
Refused  
0 days FLAME

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231241 Exotic magnetic ordering and spin dynamics in Er<sub>2</sub>Ru<sub>2</sub>O<sub>7</sub>  
Chang, Lieh-Jeng  
National Chen Kung Univ.  
Refused  
0 days GPS
- 20231256 Exotic magnetic ordering and spin dynamics in Er<sub>2</sub>Ru<sub>2</sub>O<sub>7</sub>  
Chang, Lieh-Jeng  
National Chen Kung Univ.  
Refused  
0 days FLAME
- 20231253 The magnetism of van-der-Waals correlated electron system VPS3  
Coak, Matthew  
Univ. of Birmingham  
Refused  
0 days GPS
- 20231315 Investigation of the dynamic ground state of disordered Dy<sub>2</sub>Zr<sub>2</sub>O<sub>7</sub> system  
Devi, Sheetal  
Forschungszentrum Juelich  
Refused  
0 days GPS
- 20231313  $\mu$ SR investigation of static and dynamic properties of spin-5/2 triangular lattice compound Ba<sub>3</sub>MnTa<sub>2</sub>O<sub>9</sub>  
Dey, Tusharkanti  
Indian Institute of Technology (ISM) Dhanbad  
Refused  
0 days GPS
- 20231312 Topology and spin glass in a magnetic Kagome metal  
Forslund, Ola  
Univ. Zuerich  
Refused  
0 days GPS
- 20231326 Exploring normal and superconducting state properties of Ternary Scandium Tellurides, Sc<sub>6</sub>MTe<sub>2</sub> (M = Fe, Ru, Ir)  
Graham, Jennifer  
Paul Scherrer Institut  
Refused  
0 days GPD
- 20231340 Is the broken time-reversal symmetry related to superconductivity in Sr<sub>2</sub>RuO<sub>4</sub>?  
Grinenko, Vadim  
Shanghai Jiao Tong Univ.  
Refused  
0 days FLAME

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231346 TRSB transition in Ti-doped Sr<sub>2</sub>RuO<sub>4</sub> under uniaxial stress  
Grinenko, Vadim  
Shanghai Jiao Tong Univ.  
Refused  
0 days Dolly
- 20231372 Gaining more insight into magnetic aspects of charge order in pyrochlore-lattice system CuV<sub>2</sub>S<sub>4</sub>  
Guguchia, Zurab  
Paul Scherrer Institut  
Refused  
0 days HAL-9500
- 20231377 Gaining more insight into magnetic aspects of charge order in pyrochlore-lattice system CuV<sub>2</sub>S<sub>4</sub>  
Guguchia, Zurab  
Paul Scherrer Institut  
Refused  
0 days GPS
- 20231378 Gaining more insight into magnetic aspects of charge order in pyrochlore-lattice system CuV<sub>2</sub>S<sub>4</sub>  
Guguchia, Zurab  
Paul Scherrer Institut  
Refused  
0 days FLAME
- 20231349 Pressure effect on the spin density wave transition in La<sub>3</sub>Ni<sub>2</sub>O<sub>7</sub> $\delta$   
Khasanov, Roustem  
Paul Scherrer Institut  
Refused  
0 days GPD
- 20231350 Pressure effect on the spin density wave transition in La<sub>3</sub>Ni<sub>2</sub>O<sub>7</sub> $\delta$   
Khasanov, Roustem  
Paul Scherrer Institut  
Refused  
0 days Dolly
- 20231311 Characterization of the superconducting gap and spin fluctuations in a nearly antiferromagnetic metal Zr<sub>2</sub>Co  
Klimczuk, Tomasz  
Gdansk University of Technology  
Refused  
0 days Dolly
- 20231262 Studies of Li<sup>+</sup> and Na<sup>+</sup> Diffusion in Biochar using Muon Spin Spectroscopy  
Köppel, Marius  
Johannes Gutenberg Univ.  
Refused  
0 days GPS

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231306 Studies of Li<sup>+</sup> and Na<sup>+</sup> Diffusion in Biochar using Muon Spin Spectroscopy  
Köppel, Marius  
Johannes Gutenberg Univ.  
Refused  
0 days LEM
- 20231221 Nature of the superconducting ground state in H-intercalated (Sr,Ca)C<sub>6</sub>  
Lamura, Gianrico  
Consiglio Nazionale delle Ricerche/CNR-SPIN  
Refused  
0 days FLAME
- 20231210 Influence of stoichiometry on the local magnetism in Fe<sub>d</sub>Ta<sub>2</sub>S<sub>2</sub>  
Lancaster, Tom  
Univ. of Durham  
Refused  
0 days GPS
- 20231359 Paramagnetic Meissner effect in ferromagnetic insulator/superconductor van der Waals heterostructures (continuation)  
Margineda, Daniel  
Scuola Normale Superiore  
Refused  
0 days LEM
- 20231368 Search for Kitaev physics in ReI<sub>3</sub>  
Pistawala, Nashra  
Indian Inst. of Science Education and Research (IISER)  
Refused  
0 days FLAME
- 20231365 Magnetism in the BaPrO<sub>3</sub>  
Prabhakaran, Dharmalingam  
Univ. of Oxford  
Refused  
0 days GPS
- 20231297 Determining the origin of quantum scaling in Sc<sub>3</sub>Mn<sub>3</sub>Si<sub>5</sub>Al<sub>7</sub>  
Reig, Dalmau  
ETH Zuerich  
Refused  
0 days GPD
- 20231239 Modifying spin liquids by substitution  
Sarkar, Rajib  
Technische Univ. Dresden  
Refused  
0 days FLAME

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231247 Exploring the origin of anomalous Hall effect in the paramagnetic state of the Mn<sub>0.25</sub>NbS<sub>2</sub> chiral crystal  
Shang, Tian  
East China Normal University (ECNU)  
Refused  
0 days GPS
- 20231248 Are spin fluctuations responsible for the colossal magnetoresistance in the layered EuMn<sub>2</sub>As<sub>2</sub> compound?  
Shang, Tian  
East China Normal University (ECNU)  
Refused  
0 days GPS
- 20231244 Investigating the quantum-spin-liquid state of the 2D triangular lattice Ba<sub>2</sub>La<sub>2</sub>(Co,Ni)TeWO<sub>12</sub>  
Shiroka, Toni  
ETH Zuerich & Paul Scherrer Institut  
Refused  
0 days FLAME
- 20231245 Investigating the origin of novel transport properties in the paramagnetic state of the CeAlGe single crystal  
Shiroka, Toni  
ETH Zuerich & Paul Scherrer Institut  
Refused  
0 days GPS
- 20231246 Investigating the superconducting pairing in the HfTe<sub>3</sub> CDW superconductor  
Shiroka, Toni  
ETH Zuerich & Paul Scherrer Institut  
Refused  
0 days Dolly
- 20231233  $\mu$ SR study of magnetic ground state and spin density wave in the Kagome superconductor CsCr<sub>3</sub>Sb<sub>5</sub>  
Shu, Lei  
Fudan Univ.  
Refused  
0 days GPS
- 20231328 Understanding the magnetic ground state of ruthenium-based ordered triple-perovskite Ba<sub>3</sub>MRu<sub>2</sub>O<sub>9</sub>, M = Co, Ni, Cu, Zn  
Singh, Surjeet  
Indian Inst. of Science Education and Research (IISER)  
Refused  
0 days GPS

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231199      Magnetic order in breathing pyrochlore lattice of AgInCr4S8  
Sugiyama, Jun  
CROSS  
Refused  
0 days GPS
- 20231165      Interrelationship between ion diffusion and pressure in battery materials  
Sugiyama, Jun  
CROSS  
Refused  
0 days GPD
- 20231189      Resistivity minimum in KFe2P2  
Sugiyama, Jun  
CROSS  
Refused  
0 days GPS
- 20231290      Study of the magnetic phase transitions of GdBiTe using muon spin rotation and relaxation  
Tripathi, Rajesh  
Indian Inst. of Technology (BHU)  
Refused  
0 days Dolly
- 20231309      Investigation of a possible quantum spin liquid ground state in Quantum Spin Liquid in YbZn2GaO5 using Muon spin relaxation  
Tripathi, Rajesh  
Indian Inst. of Technology (BHU)  
Refused  
0 days FLAME
- 20231267      CsNiCrF6: a potential charge driven quantum spin liquid observed by the muon's additional quantum decoherence due to multiple Coulomb phases?  
Wilkinson, John  
Rutherford Appleton Lab.  
Refused  
0 days FLAME
- 20231273      Spin dynamics in thin films of chiral helimagnetic MnGe  
Wilson, Murray  
Memorial Univ. of Newfoundland  
Refused  
0 days LEM
- 20231347      Distinct magnetic properties of AMCrTe2 ( AM = Na, K) low dimensional magnets upon AM substitution  
Witteveen, Catherine  
Univ. Zuerich  
Refused  
0 days GPS

## BVRA-2024 List of New $\mu$ SR Experiments

- 20231295      Probing the magnetic ground state of the high-Tc nickelate superconductor  $\text{La}_3\text{Ni}_2\text{O}_7$  using muon-spin-relaxation  
Xie, Tao  
Sun Yat-sen University  
Refused  
0 days GPS
- 20231291      Microscopic investigation on the anomalous step-like relaxation of remnant magnetization in clinoatacamite  $\text{Cu}_2(\text{OH})_3\text{Cl}$   
Yamauchi, Ichihiro  
Saga Univ.  
Refused  
0 days GPS
- 20231329      Magnetic ground state of the honeycomb antiferromagnet  $\text{BaCo}_2(\text{P}_{1-x}\text{V}_x)_2\text{O}_8$   
Yamauchi, Ichihiro  
Saga Univ.  
Refused  
0 days GPS
- 20231375      The  $\mu$ -SR study of a field induced QCP and QSL ground state at  $B_c = 3\text{T}$  on  $\text{CaCoV}_2\text{O}_7$  single-crystal  
Yogi, Arvind  
UGC-DAE Consortium for Scientific Research  
Refused  
0 days FLAME
- 20231379      The  $\mu$ -SR study of a field induced QCP and QSL ground state at  $B_c = 3\text{T}$  on  $\text{CaCoV}_2\text{O}_7$  single-crystal  
Yogi, Arvind  
UGC-DAE Consortium for Scientific Research  
Refused  
0 days GPS

## BVRA-2024 List of Continued $\mu$ SR Experiments

- 20231270 Exploring magnetization dynamics of a monolayer of molecules featuring temperature induced reversible switching of magnetic anisotropy  
Mannini, Matteo  
Univ. Firenze  
Accepted  
5 days LEM  
Continuation of 20101411
- 20231352 Exploring magnetization dynamics of a monolayer of molecules featuring temperature induced reversible switching of magnetic anisotropy  
Mannini, Matteo  
Univ. Firenze  
Accepted  
2 days GPS  
Continuation of 20101411
- 20231225 Muon States in Chlorinated Solvents  
Berlie, Adam  
Rutherford Appleton Lab.  
Refused  
0 days GPD  
Continuation of 20192019
- 20231231 Probing magnetism in infinite-layer nickelates across the superconducting dome  
Fowle, Jennifer  
Univ. Stanford  
Accepted  
7 days LEM  
Continuation of 20202497
- 20231255 Hyperfine muon spin echoes  
Doll, Andrin  
Paul Scherrer Institut  
Accepted  
3 days GPS  
Continuation of 20202538
- 20231360 Pressure Tuning of Magnetic Correlations in the Strong-Leg Quantum Spin Ladder/Liquid (CPA) $_2$ CuBr $_4$  - Part II  
Mansson, Martin  
Royal Inst. of Technology (KTH)  
Accepted  
6 days GPD  
Continuation of 20213029

## BVRA-2024 List of Continued $\mu$ SR Experiments

- 20222978    Hyperfine-modulated spin canting transition and re-entrance due to nuclear spin-enhanced quantum fluctuations (RESUBMISSION)  
Sibille, Romain  
Paul Scherrer Institut  
Accepted  
10 days HAL-9500  
Continuation of 20213076
- 20231318    Continuation: interwinned interactions in Ca<sub>1-x</sub>EuxCo<sub>2</sub>P<sub>2</sub>  
Ge, Yuqing  
Royal Inst. of Technology (KTH)  
Refused  
0 days GPD  
Continuation of 20213087
- 20231336    Continuation: interwinned interactions in Ca<sub>1-x</sub>EuxCo<sub>2</sub>P<sub>2</sub>  
Ge, Yuqing  
Royal Inst. of Technology (KTH)  
Refused  
0 days GPS  
Continuation of 20213087
- 20231345    Vortices in Sr<sub>2</sub>RuO<sub>4</sub> with split time-reversal symmetry breaking and superconducting transition temperatures (extension)  
Grinenko, Vadim  
Shanghai Jiao Tong Univ.  
Accepted  
6 days Dolly  
Continuation of 20213091
- 20231373    A nematic CsTi<sub>3</sub>Bi<sub>5</sub> kagome superconductor with possible unconventional magnetism  
Sanna, Samuele  
Univ. of Bologna  
Accepted  
1 days GPS  
Continuation of 20213106
- 20231354    Unravelling the role of the ligand on the spin-dynamics of single ion Dy-based molecular nanomagnets  
Sanna, Samuele  
Univ. of Bologna  
Refused  
0 days GPS  
Continuation of 20213136
- 20231355    Unravelling the role of the ligand on the spin-dynamics of single ion Dy-based molecular nanomagnets  
Sanna, Samuele  
Univ. of Bologna  
Refused

## BVRA-2024 List of Continued $\mu$ SR Experiments

- 0 days FLAME  
Continuation of 20213136
- 20231237 (H,Li) $_6$ Ru $_2$ O $_6$  (Ru $^{3+}$ ,  $J_{\text{eff}} = 1/2$ ): A Kitaev Quantum Spin Liquid alternative to  $\text{RuCl}_3$   
Mahajan, Avinash  
Indian Inst. of Technology Bombay - IIT  
Refused  
0 days FLAME  
Continuation of 20221240
- 20231342 Spin-liquid state in the frustrated honeycomb lattice antiferromagnet CaCrZn $_2$ P $_3$ O $_{12}$   
Khuntia, Panchanana  
Indian Institute of Technology (IIT), Madras  
Accepted  
2 days FLAME  
Continuation of 20221337
- 20231236 Exploring the role of shallow impurity profiles on Nb's Meissner screening properties  
Junginger, Tobias  
Univ. of Victoria  
Refused  
0 days LEM  
Continuation of 20222354
- 20231205 Magnetism and skyrmion bubble dynamics in RE $Mn_2$ Ge $_2$  (RE=Pr and Ce)  
Lancaster, Tom  
Univ. of Durham  
Refused  
0 days GPS  
Continuation of 20222463
- 20231235 Microscopic coexisting of magnetism and superconductivity in CeRhIn $_5$ :  $\mu$ SR study  
Shu, Lei  
Fudan Univ.  
Accepted  
6 days GPD  
Continuation of 20222838
- 20231314  $\mu$ SR investigation of the pressure-driven quantum criticality in a frustrated metallic system Ce $_7$ Ni $_3$   
Majumder, Mayukh  
Shiv Nadar Univ.  
Accepted  
6 days GPD  
Continuation of 20222860

## BVRA-2024 List of Continued $\mu$ SR Experiments

- 20231353    Advanced muon spin spectroscopy with high lateral resolution using Si pixel detectors  
Salman, Zaher  
Paul Scherrer Institut  
Accepted  
13 days HAL-9500  
Continuation of 20222883
- 20231284    Charge and strain tuning to understand the universality of emergent magnetism in PdCoO<sub>2</sub>  
Gardner, Jason  
Oak Ridge National Lab.  
Accepted  
4 days LEM  
Continuation of 20222889
- 20231207    Revealing unconventional magnetism coexisting with superconductivity in CeRh<sub>2</sub>As<sub>2</sub> near quantum criticality  
Khim, Seunghyun  
Max-Planck-Inst. für Chemische Physik fester Stoffe  
Accepted  
4 days HAL-9500  
Continuation of 20222897
- 20231263    Superconducting properties of Sm(Fe,Co)AsO single crystals studied by  $\mu$ SR  
Lamura, Gianrico  
Consiglio Nazionale delle Ricerche/CNR-SPIN  
Accepted  
5 days Dolly  
Continuation of 20222935
- 20231321    High pressure study into the Kitaev-type quantum spin liquid SmI<sub>3</sub>  
Ge, Yuqing  
Royal Inst. of Technology (KTH)  
Accepted  
4 days GPD  
Continuation of 20222956
- 20231337    Spin Liquid Ground State in Kitaev Candidate SmI<sub>3</sub>  
Tam, David  
Paul Scherrer Institut  
Accepted  
4 days HAL-9500  
Continuation of 20222956

## BVRA-2024 List of Continued $\mu$ SR Experiments

- 20231338 Tunable superconducting and normal state properties of the pyrochlore materials  $\text{CaNi}_2$  and  $\text{Ca}(\text{Rh}_{0.98}\text{Ru}_{0.02})_2$  with three-dimensional flat bands  
Guguchia, Zurab  
Paul Scherrer Institut  
Accepted  
8 days Dolly  
Continuation of 20222984
- 20231356 Tunable superconducting and normal state properties of the pyrochlore materials  $\text{CaNi}_2$  and  $\text{Ca}(\text{Rh}_{0.98}\text{Ru}_{0.02})_2$  with three-dimensional flat bands  
Guguchia, Zurab  
Paul Scherrer Institut  
Accepted  
2 days GPS  
Continuation of 20222984
- 20231357 Tunable superconducting and normal state properties of the pyrochlore materials  $\text{CaNi}_2$  and  $\text{Ca}(\text{Rh}_{0.98}\text{Ru}_{0.02})_2$  with three-dimensional flat bands  
Guguchia, Zurab  
Paul Scherrer Institut  
Accepted  
7 days HAL-9500  
Continuation of 20222984
- 20231358 Tunable superconducting and normal state properties of the pyrochlore materials  $\text{CaNi}_2$  and  $\text{Ca}(\text{Rh}_{0.98}\text{Ru}_{0.02})_2$  with three-dimensional flat bands  
Guguchia, Zurab  
Paul Scherrer Institut  
Refused  
0 days GPD  
Continuation of 20222984
- 20231296 MIXE (Muon-Induced X-ray Emission)  
Heiss, Michael  
Paul Scherrer Institut  
Accepted  
19 days Dolly  
Continuation of 20222993
- 20231374 Investigate chemistry in copper oxide films on copper: applications in deep geological repository of nuclear waste  
Ghandi, Khashayar  
Univ. of Guelph  
Accepted  
5 days LEM  
Continuation of 20230813

## BVRA-2024 List of Continued $\mu$ SR Experiments

- 20231383 Pressure-induced Ferromagnetism on the spin-3/2 Dimer Quantum Spin Liquid  
Candidate Ba<sub>3</sub>ZnRu<sub>2</sub>O<sub>9</sub>  
Sari, Dita  
Shibaura Inst. of Technology  
Accepted  
1 days GPS  
Continuation of 20230840
- 20231380 Pressure-induced Ferromagnetism on the spin-3/2 Dimer Quantum Spin Liquid  
Candidate Ba<sub>3</sub>ZnRu<sub>2</sub>O<sub>9</sub>  
Sari, Dita  
Shibaura Inst. of Technology  
Refused  
0 days GPD  
Continuation of 20230840