

PSI, Villigen  
March-16, 2012

**MINUTES "BESCHLUSSKONFERENZ"  
OF THE USERS MEETING BV 43 AT PSI  
February 21 - 23, 2012**

present: Dr. K. Clausen (Chairman)  
Dr. C. Hoffman  
Prof. K. Kirch  
Prof. E. Morenzoni  
Dr. C. Petitjean (Secretary)  
Dr. L. Rivkin  
Dr. M. Seidel  
Dr. Th. Straessle

excused: Prof. J. Mesot  
Prof. C. Bernhard  
Dr. R. Horisberger

# 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).

## New Proposals

- R-12-01.1      Studying the Proton “Radius” Puzzle with  $\mu$ p Elastic Scattering  
R. Gilman, et al., Rutgers University, New Brunswick NJ, Argonne IL,  
Newport News VA, South Carolina SC, Philadelphia PA, MIT, JLAB,  
Hampton VA, Charlottesville VA, Durham NC, Williamsburg VA, Norfolk VA  
(all USA), PSI, Tel Aviv, Jerusalem (Israel), Darmstadt (Germany), Nova  
Scotia (Canada)  
Decision deferred, studies on  $\pi$ M1 beam approved. For details see  
committee minutes.
- 20110825       $\mu$ SR versus Raman  
Amit Keren, The Israel Inst. of Technology - Technion  
Approved, 2 days GPS
- 20111282      Spin Polarized Superconductivity in Ferromagnets  
Jason WA Robinson, Univ. of Cambridge  
Approved, 3 days LEM
- 20111493      Depth-Resolved Measurements of Dynamics in Polymer Thin Films using  
Spin- Polarized Radioactive Probes  
Glen D McKenzie, TRIUMF  
Refused, 0 days LEM
- 20111502      Investigation of magnetic phase separation in SrCoOx  
Franz J Rueckert, Univ. Connecticut  
Approved, 2 days GPS
- 20111504      Study of magnetic behaviour of Ce<sub>5</sub>Rh<sub>4</sub>Sn<sub>10</sub> heavy fermion system  
Piotr Zielinski, The Henryk Niewodniczanski Inst. of Nuclear Physics  
Refused, 0 days LTF
- 20111509      Zero Field investigation of multiferroic TTB iron fluorides  
Roberto De Renzi, Univ. Parma  
Approved, 2 days GPS
- 20111511      Unveiling the Magnetic Ground State of CuNCN  
Andrej Zorko, Jozef Stefan Inst.  
Approved, 2 days GPS
- 20111512      The Nature of Spin Freezing in Diluted Magnetic Oxides  
Andrej Zorko, Jozef Stefan Inst.  
Approved, 2 days GPS

- 20111513      Magnetic Instabilities in the spin-1/2 chain compound beta-VTeO<sub>4</sub>  
 Andrej Zorko, Jozef Stefan Inst.  
 Refused, 0 days GPS
- 20111514      Quantum Phase Transition and Bose-Einstein Condensation in a quasi-2D  
 spin-1/2 dimer system Piperazinium hexachlorodocuprate (PHCC)  
 Martin Mansson, ETH Zurich  
 Approved, 10 days GPD
- 20111679      Quantum Phase Transition and Bose-Einstein Condensation in a quasi-2D  
 spin-1/2 dimer system Piperazinium hexachlorodocuprate (PHCC)  
 Martin Mansson, ETH Zurich  
 Approved, 2 days LTF
- 20111515      Spin Dynamics in La(1.55)Sr(0.45)CuO(2)/La(2)CuO(4) and  
 LaAlO(3)/La(2)CuO(4) Superlattices  
 Andreas Suter, Paul Scherrer Institut  
 Approved, 6 days LEM
- 20111675      Measurement of the Magnetic Properties of Single Molecule Magnets Thin  
 Films  
 Zaher Salman, Paul Scherrer Institut  
 Refused, 0 days GPS
- 20111517      Nature of Magnetism in Magnetically Doped Topological Insulators - From  
 Bulk to Surface  
 Zaher Salman, Paul Scherrer Institut  
 Approved, 4 days LEM
- 20111627      Nature of Magnetism in Magnetically Doped Topological Insulators - From  
 Bulk to Surface  
 Zaher Salman, Paul Scherrer Institut  
 Approved, 2 days GPS
- 20111520      Magnetic order and quantum critical behavior in NbFe<sub>2</sub>  
 Jochen Litterst, Techn. Univ. Braunschweig  
 Approved, 2 days GPS
- 20111526      Investigation of a Potential realization of the Nersesyan-Tsvelik Model in  
 (NO)[Cu(NO<sub>3</sub>)<sub>3</sub>]  
 Bella Lake, Helmholtz Zentrum Berlin fuer Materialien und Energie  
 Approved, 3 days LTF
- 20111576      Investigation of a Potential realization of the Nersesyan-Tsvelik Model in  
 (NO)[Cu(NO<sub>3</sub>)<sub>3</sub>]  
 Bella Lake, Helmholtz Zentrum Berlin fuer Materialien und Energie  
 Approved, 2 days GPS
- 20111527      Hydrogen in CZTS for photovoltaic cells  
 Rui C Vilao, Univ. of Coimbra  
 Approved, 4 days LEM

- 20111583 Hydrogen in CZTS for photovoltaic cells  
Rui C Vilao, Univ. of Coimbra  
Approved, 3 days GPS
- 20111528 Pressure effect on the in-plane and the out of plane comp. of the penetration depth of  $\text{La}_{1.83}\text{Sr}_{0.17}\text{CuO}_4$   
Rustem Khasanov, Paul Scherrer Institut  
Approved, 12 days GPD
- 20111529 Microscopic Coexistence and Competition of Superconductivity and Magnetism in  $\text{Ba}_{1-x}\text{K}_x\text{Fe}_2\text{As}_2$   
Dirk Johrendt, Ludwig-Maximilian Univ. Muenchen LMU  
Approved, 3 days GPS
- 20111533 d0-Magnetism in Alkaline-Earth Hexaborides  
Andreas Suter, Paul Scherrer Institut  
Approved, 4 days LEM
- 20111535 Depth probe of ferromagnetism in Co-doped  $\text{TiO}_2$  thin films in external electric field and photoillumination.  
Hassan Saadaoui, Paul Scherrer Institut  
Approved, 6 days LEM
- 20111560 Control of the structure-magnetism relationship in molecular magnets  
Tom Lancaster, Univ. of Durham  
Approved, 4 days LTF
- 20111561 Investigation of the long range magnetic ordering in a magnetic Ionic Liquid Crystal:  $[\text{Choline}][\text{FeCl}_4]$   
Manuel de Pedro del Valle, Univ. de Cantabria  
Approved, 1 days GPS
- 20111562 Investigation of high-frequency muon precession in palladium bionanomaterial  
Neil Creamer, Univ. of Birmingham  
Approved, 3 days GPD
- 20111676 Bond disorder in spin-1/2 Heisenberg chains  
Matthias Carsten Thede, Paul Scherrer Institut  
Approved, 2 days GPS
- 20111577 Low Temperature Properties of a Uniform  $S=1/2$  Triangular Lattice System  
Francis L Pratt, Rutherford Appleton Lab.  
Approved, 2 days GPS
- 20111565 Effect of compressive and tensile strain on the superconducting state of LSCO thin films  
Ludovic Howald, Univ. Zuerich  
Approved, 4 days LEM

- 20111567 Low T persistent spin dynamics in the 2d XY AFM pyrochlore system Er<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub>: suppression of critical dynamics by Sn doping  
Jorge Lago, The Univ. of The Basque Country  
Approved, 3 days LTF
- 20111568  $\mu$ SR studies of the magnetic and the structural phase diagrams of Sr(1-x)Eu<sub>x</sub>TiO<sub>3</sub>  
Zurab Guguchia, Univ. Zuerich  
Approved, 2 days GPS
- 20111569 Evolution of the magnetic order and its correlation with superconductivity in NdFeAsO(1-x)F(x)  
Gianrico Lamura, Consiglio Nazionale delle Ricerche/CNR-SPIN  
Approved, 2 days GPS
- 20111570 Exploring magnetic correlations in a new S=1/2 kagome antiferromagnet  
Fabrice Bert, Univ. Paris-Sud  
Approved, 1 days GPS
- 20111656 Exploring magnetic correlations in a new S=1/2 kagome antiferromagnet  
Fabrice Bert, Univ. Paris-Sud  
Approved, 2 days LTF
- 20111678 Novel ground states and magnetic order in A<sub>2</sub>Ir<sub>2</sub>O<sub>7</sub>  
Michael J Graf, Boston College  
Approved, 2 days LTF
- 20111575 Odd-frequency spin-triplet superconductivity in Ferromagnetic-Superconducting Devices  
Stephen L Lee, Univ. of St. Andrews  
Approved, 2 days LEM
- 20111578 Study of Dimensionality Tuning of Magnetic Phases of Metallic Oxide Systems in Superlattices by mSR  
Zhiqi Liu, Nat. Univ. of Singapore  
Refused, 0 days LEM
- 20111579  $\mu$ SR experiments on the mixed state in the non-centrosymmetric superconductor BiPd  
Alexander T Holmes, Univ. of Birmingham  
Approved, 2 days GPS
- 20111636  $\mu$ SR experiments on the mixed state in the non-centrosymmetric superconductor BiPd  
Alexander T Holmes, Univ. of Birmingham  
Approved, 2 days LTF
- 20111581  $\mu$ SR studies on a new doped magnetic semiconductors Li(Cd,Mn)P  
Fanlong Ning, Columbia Univ.  
Approved, 3 days GPS

- 20111582 What is the low-temperature ordered state of BaAg<sub>2</sub>Cu[VO<sub>4</sub>]<sub>2</sub>?  
Peter J Baker, Rutherford Appleton Lab.  
Approved, 2 days LTF
- 20111584 Study of geometrically frustrated magnets on a spinel lattice  
Pierre Dalmas de Reotier, CEA, Grenoble  
Approved, 4 days LTF
- 20111589 Study of geometrically frustrated magnets on a spinel lattice  
Pierre Dalmas de Reotier, CEA, Grenoble  
Approved, 4 days GPS
- 20111585 Dynamic Magnetic Properties of Artificial Spin-Ice Systems  
Laura Heyderman, Paul Scherrer Institut  
Approved, 3 days LEM
- 20111586 Muon investigation of the niobates Cu<sub>3</sub>Nb<sub>2</sub>O<sub>8</sub> and Mn<sub>4</sub>Nb<sub>2</sub>O<sub>9</sub>  
Peter J Baker, Rutherford Appleton Lab.  
Approved, 2 days GPS
- 20111587 Reversible ferromagnetic properties of TiO<sub>2</sub> & Nb-SrTiO<sub>3</sub> single crystals by vacuum/atmospheric annealing  
Yongliang Zhao, Nat. Univ. of Singapore  
Refused, 0 days LEM
- 20111588 YBiPt: a candidate topological superconductor  
Antheunis de Visser, Univ. Amsterdam  
Approved, 3 days LTF
- 20111625 YBiPt: a candidate topological superconductor  
Antheunis de Visser, Univ. Amsterdam  
Approved, 1 days GPS
- 20111590 The influence of the Fe spin state on the magnetic properties of the parent (undoped) La<sub>1111</sub> compound  
Rustem Khasanov, Paul Scherrer Institut  
Refused, 0 days GPS
- 20111619 The influence of the Fe spin state on the magnetic properties of the parent (undoped) La<sub>1111</sub> compound  
Rustem Khasanov, Paul Scherrer Institut  
Approved, 6 days GPD
- 20111591 Spin orbit effects in organic spin valves  
Alan J Drew, Queen Mary and Westfield College  
Approved, 5 days LEM
- 20111592 The role of triplet excitons on mounium spin relaxation rates and mounium formation at low energies  
Alan J Drew, Queen Mary and Westfield College  
Approved, 2 days LEM

- 20111593 Investigating Muons Interaction with Multilayer Graphene Epitaxially Grown on a Silicon Carbide Substrate  
Patrick G Soukiassian, Commissariat a L'Energie Atomique (CEA)  
Approved, 4 days LEM
- 20111595 Investigating the spin dynamics of exotic S=1 spin liquid candidates on the Triangular Lattice  
Fabrice Bert, Univ. Paris-Sud  
Approved, 2 days GPS
- 20111677 Investigating the spin dynamics of exotic S=1 spin liquid candidates on the Triangular Lattice  
Fabrice Bert, Univ. Paris-Sud  
Approved, 3 days LTF
- 20111596  $\mu$ SR Study of the Magnetic State in the Overdoped Regime of Fe-Substituted La-214 High-Tc Cuprates  
Tadashi Adachi, Univ. Tohoku  
Approved, 3 days GPS
- 20111599 Spin Ice - Cold but not Frozen  
Sarah R Dunsiger, Techn. Univ. Muenchen  
Approved, 2 days LEM
- 20111603 Low-energy  $\mu$ SR studies of Skyrmions in MnSi and FeGe: continuation request  
Yasutomo J Uemura, Columbia Univ.  
Approved, 1 days GPS
- 20111601  $\mu$ SR study of superfluid density in CeCoIn<sub>5</sub> under high pressure  
Tatsuo Goko, Columbia Univ.  
Refused, 0 days GPD
- 20111626 Evidence for an Anomalous Superconducting State of Ca<sub>3</sub>Ir<sub>4</sub>Sn<sub>13</sub>  
Simon M Gerber, Paul Scherrer Institut  
Refused, 0 days LTF
- 20111664 Surface and bulk superconductivity in the topological superconductor CuxBi<sub>2</sub>Se<sub>3</sub>  
Zaher Salman, Paul Scherrer Institut  
Approved, 2 days GPS
- 20111605 Search for the magnetic monopole image charge in topological insulators  
Zaher Salman, Paul Scherrer Institut  
Approved, 4 days LEM
- 20111607 Study of the Spin Structure in the Magnetically Ordered CeRu<sub>1-y</sub>RhAl<sub>10</sub>  
Isao Watanabe, RIKEN  
Refused, 0 days GPS

- 20111608 muSR studies on  $\text{SmCu}_{6-x}\text{In}_{6+x}$  ( $x = 0, 1$  and  $2$ )  
Sebastian Chirambatte Peter, Jawaharlal Nehru Centre for Advanced Scientific Research  
Refused, 0 days GPS
- 20111637 Study of quantum criticality in  $\text{CeCoIn}$  under pressure  
Ludovic Howald, Univ. Zuerich  
Approved, 2 days LTF
- 20111611 Meissner screening of photo-persistent superconductivity in underdoped  $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$   
Evelyn Stilp, Univ. Zuerich  
Approved, 6 days LEM
- 20111612 Pressure evolution of an excitonic state in  $\text{SmS}$ :  
muSR studies using physical and chemical pressures  
Takashi U. Ito, Japan Atomic Energy Agency  
Approved, 6 days GPD
- 20111616 Pressure evolution of an excitonic state in  $\text{SmS}$ :  
muSR studies using physical and chemical pressures  
Takashi U. Ito, Japan Atomic Energy Agency  
Refused, 0 days GPS
- 20111613 Stripe dynamics and spin freezing in  $\text{La}_{2-x}\text{Sr}_x\text{CoO}_4$  layered cobaltates  
Tom Lancaster, Univ. of Durham  
Approved, 2 days GPS
- 20111614 The study of magnetic semiconductors by low energy muon spectroscopy  
Jiabao Yi, University of New South Wales  
Approved, 4 days LEM
- 20111615 muSR on Thermally Treated  $\text{Rb}_x\text{Fe}_{2-y}\text{Se}_2$  Single Cystals  
Markus M. Bendele, Univ. Zuerich  
Approved, 3 days GPS
- 20111617 Superconducting properties of  $\text{Ca}_{1-x}\text{Sr}_x\text{AlSi}$   
Markus M. Bendele, Univ. Zuerich  
Refused, 0 days LTF
- 20111618 Superconducting properties of  $\text{Ca}_{1-x}\text{Sr}_x\text{AlSi}$   
Markus M. Bendele, Univ. Zuerich  
Refused, 0 days GPS
- 20111651 Interplay of itinerant and localized magnetism in  $\text{RECoPO}$  samples under applied hydrostatic pressure  
Giacomo Prando, Univ. degli Studi di Pavia  
Approved, 1 days GPS



- 20111621      Magnetic properties of Fe(1+x)Te  
Philipp Materne, Technische Univ. Dresden  
Approved, 2 days GPS
- 20111629      Investigation of Spin Liquid State in Geometrically Frustrated Inorganic  
Compounds  
Wataru Higemoto, Japan Atomic Energy Agency  
Refused, 0 days LTF
- 20111632      Investigation of Spin Liquid State in Geometrically Frustrated Inorganic  
Compounds  
Wataru Higemoto, Japan Atomic Energy Agency  
Refused, 0 days GPS
- 20111631      muSR study of 1D magnetism in the free radical NIT-2Py  
Andrea D Bianchi, Univ. de Montreal  
Refused, 0 days LTF
- 20111633      Spin Liquid State in the Triangular Antiferromagnets Ba<sub>3</sub>MSb<sub>2</sub>O<sub>9</sub> (M=Cu,Ni)  
Kwang-Yong Choi, Chung-Ang University  
Refused, 0 days LTF
- 20111635      Spin Liquid State in the Triangular Antiferromagnets Ba<sub>3</sub>MSb<sub>2</sub>O<sub>9</sub> (M=Cu,Ni)  
Kwang-Yong Choi, Chung-Ang University  
Refused, 0 days GPS
- 20111634      Muons and monopoles in spin ice  
Stephen J Blundell, Univ. of Oxford  
Refused, 0 days LTF
- 20111638      Muons and monopoles in spin ice  
Stephen J Blundell, Univ. of Oxford  
Approved, 2 days LEM
- 20111639      Near surface photo-induced effects in p- and n-type germanium  
Thomas Prokscha, Paul Scherrer Institut  
Approved, 4 days LEM
- 20111671      Near surface photo-induced effects in p- and n-type germanium  
Thomas Prokscha, Paul Scherrer Institut  
Approved, 2 days GPS
- 20111640      Exploring magnetic phases in 111 superconductors  
Stephen J Blundell, Univ. of Oxford  
Approved, 4 days GPS
- 20111644      Exploring magnetic phases in 111 superconductors  
Stephen J Blundell, Univ. of Oxford  
Approved, 5 days GPD

- 20111641 Field-induced QCP and novel phases in the ferropnictide superconductor  $\text{KFe}_2\text{As}_2$   
Hemke Maeter, Technische Univ. Dresden  
Approved, 2 days GPS
- 20111646 Field-induced QCP and novel phases in the ferropnictide superconductor  $\text{KFe}_2\text{As}_2$   
Hemke Maeter, Technische Univ. Dresden  
Refused, 0 days LTF
- 20111642 Effect of the isoelectronic Ru spinless dilution on magn. & SC properties of  $\text{LaFe}_{1-x}\text{Ru}_x\text{AsO}_{0.89}\text{F}_{0.11}$   
Samuele Sanna, Univ. degli Studi di Pavia  
Approved, 2 days GPS
- 20111645 Effect of the isoelectronic Ru spinless dilution on magnetic e superconducting properties of  $\text{LaFe}_{1-x}\text{Ru}_x\text{AsO}_{0.89}\text{F}_{0.11}$   
Samuele Sanna, Univ. degli Studi di Pavia  
Approved, 2 days LTF
- 20111647 Magnetic Order and Spin Dynamics close to a Ferromagnetic Quantum Critical Point  
Johannes Spehling, Technische Univ. Dresden  
Approved, 3 days LTF
- 20111660 Magnetic Order and Spin Dynamics close to a Ferromagnetic Quantum Critical Point  
Johannes Spehling, Technische Univ. Dresden  
Approved, 1 days GPS
- 20111649 Detailed Study of the Metal-Organic Ferromagnet  $\text{Ni}(\text{TCNQ-d}_4)_2$  Under Extreme Pressure  
Adam Berlie, Univ. of Durham  
Approved, 6 days GPD
- 20111650 Low-energy muon spin rotation study of magnetism and phase separation in Rb-intercalated iron-selenide superconductors.  
Alexander V Boris, Max-Planck-Inst. Stuttgart  
Approved, 3 days LEM
- 20111652 Microscopic interplay of superconducting and magnetic order parameters in ferropnictides  
Hemke Maeter, Technische Univ. Dresden  
Approved, 2 days GPS
- 20111654 Muonium in rare-earth sesquioxides  
Rui C Vilao, Univ. of Coimbra  
Approved, 2 days GPS

- 20111659 Near-surface superconductivity and structure of niobium from superconducting radio frequency cavities  
Alexander Romanenko, Fermilab  
Refused, 0 days LEM
- 20111669 Low energy muon study of self-organized GeMn nanocolumns  
Alain Yaouanc, CEA, Grenoble  
Approved, 2 days LEM
- 20111670 Effect of pressure on  $\text{Fe}_y\text{Te}_{1-x}\text{Se}_x$   
Markus M. Bendele, Univ. Zuerich  
Approved, 10 days GPD
- 20111672 SrPtAs a hexagonal pnictide superconductor with locally broken inversion symmetry  
Dirk Johrendt, Ludwig-Maximilian Univ. Muenchen LMU  
Approved, 3 days LTF
- 20111674 SrPtAs a hexagonal pnictide superconductor with locally broken inversion symmetry  
Dirk Johrendt, Ludwig-Maximilian Univ. Muenchen LMU  
Refused, 0 days GPS
- 20111673 Magnetic properties near the surface of MgB<sub>2</sub> films and MgB<sub>2</sub>/Nb bilayers.  
Hassan Saadaoui, Paul Scherrer Institut  
Approved, 3 days LEM

## Letters of Intent

- R-12-02.0 Experimental Verification of the exotic six-quark hadron  $d_1^*(1956)$  production in the process  $pp \rightarrow ppy$  below the pion production threshold.  
A.S. Khrykin, et al., JINR Dubna, Russia, PSI  
Letter acknowledged. A proposal should contain new elements as compared to the previous experiment, see committee minutes.
- R-12-03.0 Lol for an Experiment to search for the Decay  $\mu \rightarrow eee$   
A. Schöning, S. Ritt, et al., Univ. Heidelberg, PSI, Univ. Genève, Mannheim, Univ. Zürich, ETH Zürich  
This Letter is very welcomed! The next step should be the submission of a full proposal, see also comments in the committee minutes.

## 2. Beam schedules

The 600 MeV ring accelerator is scheduled for 34 weeks of high intensity beam production from April 30 to December 21, 2012 (see beam operations schedule 2012 on <http://abe.web.psi.ch/schedule/yearplan2012.php> and research schedule in the appendix).

As usual, the beam schedules 2012 will be regularly updated and are displayed on the internet:

- [http://ltp.web.psi.ch/accelerator\\_and\\_beams/schedule.pdf](http://ltp.web.psi.ch/accelerator_and_beams/schedule.pdf) for the general schedule
- <http://lmu.web.psi.ch/facilities/schedules.html> for  $\mu$ SR details

## 3. Redesigned $\pi$ E1 area

In the meantime, the  $\pi$ E1 area and the open beam line has been redesigned. A concept was found to serve the beam either to the DOLLY  $\mu$ SR facility placed on a new fixed position in the old area, or to low energy muon experiments located in the new extended area. Commissioning is scheduled for September 2012.

## 4. Varia

The next meeting **BV44** is scheduled for **January 14 - 16, 2013** (earlier than usual!). The first day is reserved for reviews of  $\mu$ ey and UCN experiments. The **deadline** for beam requests, new proposals and addenda is **December 10, 2012**. Users are requested to make electronic submissions of their documents (pdf files).

The dates for the next meeting BVRA-2012 are not fixed yet.

### Attachments

- PSI 590 MeV Program April 30 – December 21, 2012
- BV43 list of PSI HE experiments
- BVRA-2012 list of PSI  $\mu$ SR experiments
- the short minutes with recommendations of the scientific committee for particle physics experiments can be found on [http://ltp.web.psi.ch/user\\_information/user\\_meeting.htm](http://ltp.web.psi.ch/user_information/user_meeting.htm)

# PSI 590 MeV Program April – December 2012

Number of week 2012					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	
Cycle dates					30.04. - 21.05.				24.05. - 18.06.				21.06. - 16.07.				19.07. - 13.08.				16.08. - 10.09.				13.09. - 08.10.				11.10. - 05.11.				08.11. - 03.12.				06.12. - 21.12.		
Area	proposal	spokesman	PSP	Experiment																																			
PIM1		Deiters	5201.32000.002	Tests																																			
		Grab,Schoening		ETH/U-HeidelbergPraktikum																																			
		Deiters		Tests of Frascati Team																																			
		Van der Schaaf		Test																																			
	R-12-01	Gilman		Beamstudies																																			
PIM3	RA-Progr.	Amato (coord)	5201.35700.003	MuSR (GPS&LTF)																																			
PIE1	R-07-05	Kammel,Petitjean	5201.32000.005	MuSun																																			
	R-10-02	Rohe	5203.32001.001	irradiations																																			
				Tests																																			
	Ra-Progr.	Amato (coord)	5203.35700.003	MuSr (Dolly)																																			
PIE3	RA-Progr.	Scheuermann Cod	5203.35700.003	MuSR (Hochfeld)																																			
PIE5	R-99-05	Mori,Baldini	5203.32003.001	MEG																																			
MuE1	RA-Progr.	Amato (coord)	5203.35700.003	MuSR (GPC)																																			
MuE4	RA-Progr.	Prokscha (coord)	5203.35700.009	LEM																																			
UCN	R-05-03	Kirch, Heil	5201.32002.001	nEDM																																			
	R-07-01	Picker		PENeLOPE (n lifetime)																																			
				Tests																																			
Inj. 2 and Ring Cycles																																							

- beam time for particle physics
- beam time for MuSR
- not allocated
- beam time for tests

- HE beam
- service, machin development
- accelerator start-up / stop

PSI Beam operations :

<http://abe.web.psi.ch/schedule/yearplan2012.php>

**BV43 LIST OF PSI  $\pi/\mu$  EXPERIMENTS: BEAM REQUESTS AND ALLOCATIONS 2012**

AREA	PROPOSAL	SPOKESPERSONS	EXPERIMENT	BEAM STATUS (1 Week = 5 real days)			BEAM ALLOCATIONS 2012		
				Used	Allocation	Ref.	Request	Remarks	Allocation
$\pi$ M1	Praktikum R-12-01	GRAB,SCHOENING	Praktikum ETH-Heidelberg		appr.		4 W	16.8. - 15.9.2012	4 W
		GILMAN, DEITERS	beamtests for mu-e-scattering		tests appr.	BV43	12 W	17.9. - 21.12.2012	12 W
		VAN DER SCHAAF	Tests				1 W	9.7. - 16.7.2012	1 W
		DEITERS (coordinator)	Tests of Frascati Team				3 W	1.6. - 18.6.2012	3 W
		DEITERS (coordinator)	various test experiments				W		W
$\pi$ M3	RA-Program	AMATO (coordinator)	$\mu$ SR (GPS & LTF)		(see BVRA)		34 W		23 W *
$\pi$ E1	RA-Program	AMATO (coordinator)	$\mu$ SR with DOLLY		(see BVRA)		5 W	08.11.-21.12.2012	5 W
	R-10-02	ROHE	Irradiation tests		tests appr.	BV41	4 W	30.4. - 31.5..2012	4 W
	R-08-01	KAMMEL et al.	$\mu$ -d capture (Musun)	29 W	appr.	BV39	4 W	11.10. - 5.11.2012	4 W
		PETITJEAN (coordinator)	Commissioning new beamline				2 W	24.09.-8.10.2012	2 W
$p$ E3	RA-Program	SCHEUERMANN (coord.)	high field $\mu$ SR		(see BVRA)		34 W		34 W
$\pi$ E5	R-99-05	MORI, BALDINI	$\mu \rightarrow e + \gamma$	221 W	appr.	BV29	34 W		34 W
$\mu$ E1	RA-Program	AMATO (coordinator)	$\mu$ SR (GPD)		(see BVRA)		34 W		23 W *
$\mu$ E4	slow $\mu^+$	PROKSCHA (coordinator)	LEM slow $\mu^+$ facility		(see BVRA)		34 W		34 W
UCN	R-05-03	KIRCH, HEIL	nEDM		appr.	BV36	34 W		34 W

\* last 11  $\mu$ SR weeks will be allocated in a second round

## BVRA-2012 list of PSI $\mu$ SR experiments

### New Proposals

- 20110825  $\mu$ SR versus Raman  
Amit Keren, The Israel Inst. of Technology – Technion  
Approved, 2 days GPS
- 20111282 Spin Polarized Superconductivity in Ferromagnets  
Jason WA Robinson, Univ. of Cambridge  
Approved, 3 days LEM
- 20111493 Depth-Resolved Measurements of Dynamics in Polymer Thin Films using Spin-Polarized Radioactive Probes  
Iain D McKenzie, TRIUMF  
Refused, 0 days LEM
- 20111502 Investigation of magnetic phase separation in SrCoOx  
Franz J Rueckert, Univ. Connecticut  
Approved, 2 days GPS
- 20111504 Study of magnetic behaviour of Ce5Rh4Sn10 heavy fermion system  
Piotr Zielinski, The Henryk Niewodniczanski Inst. of Nuclear Physics  
Refused, 0 days LTF
- 20111509 Zero Field investigation of multiferroic TTB iron fluorides  
Roberto De Renzi, Univ. Parma  
Approved, 2 days GPS
- 20111511 Unveiling the Magnetic Ground State of CuNCN  
Andrej Zorko, Jozef Stefan Inst.  
Approved, 2 days GPS
- 20111512 The Nature of Spin Freezing in Diluted Magnetic Oxides  
Andrej Zorko, Jozef Stefan Inst.  
Approved, 2 days GPS
- 20111513 Magnetic Instabilities in the spin-1/2 chain compound beta-VTeO4  
Andrej Zorko, Jozef Stefan Inst.  
Refused, 0 days GPS
- 20111514 Quantum Phase Transition and Bose-Einstein Condensation in a quasi-2D spin-1/2 dimer system Piperazinium hexachlorodocuprate (PHCC)  
Martin Mansson, ETH Zurich  
Approved, 10 days GPD
- 20111679 Quantum Phase Transition and Bose-Einstein Condensation in a quasi-2D spin-1/2 dimer system Piperazinium hexachlorodocuprate (PHCC)  
Martin Mansson, ETH Zurich  
Approved, 2 days LTF
- 20111515 Spin Dynamics in La(1.55)Sr(0.45)CuO(2)/La(2)CuO(4) and LaAlO(3)/La(2)CuO(4) Superlattices  
Andreas Suter, Paul Scherrer Institut  
Approved, 6 days LEM
- 20111675 Measurement of the Magnetic Properties of Single Molecule Magnets Thin Films  
Zaher Salman, Paul Scherrer Institut  
Refused, 0 days GPS
- 20111517 Nature of Magnetism in Magnetically Doped Topological Insulators - From Bulk to Surface  
Zaher Salman, Paul Scherrer Institut  
Approved, 4 days LEM
- 20111627 Nature of Magnetism in Magnetically Doped Topological Insulators - From Bulk to Surface  
Zaher Salman, Paul Scherrer Institut  
Approved, 2 days GPS
- 20111520 Magnetic order and quantum critical behavior in NbFe2  
Jochen Litterst, Techn. Univ. Braunschweig  
Approved, 2 days GPS

## BVRA-2012 list of PSI $\mu$ SR experiments

- 20111526 Investigation of a Potential realization of the Nersesyan-Tsvelik Model in (NO)[Cu(NO<sub>3</sub>)<sub>3</sub>]  
Bella Lake, Helmholtz Zentrum Berlin fuer Materialien und Energie  
Approved, 3 days LTF
- 20111576 Investigation of a Potential realization of the Nersesyan-Tsvelik Model in (NO)[Cu(NO<sub>3</sub>)<sub>3</sub>]  
Bella Lake, Helmholtz Zentrum Berlin fuer Materialien und Energie  
Approved, 2 days GPS
- 20111527 Hydrogen in CZTS for photovoltaic cells  
Rui C Vilao, Univ. of Coimbra  
Approved, 4 days LEM
- 20111583 Hydrogen in CZTS for photovoltaic cells  
Rui C Vilao, Univ. of Coimbra  
Approved, 3 days GPS
- 20111528 Pressure effect on the in-plane and the out of plane comp. of the penetration depth of La<sub>1.83</sub>Sr<sub>0.17</sub>CuO<sub>4</sub>  
Rustem Khasanov, Paul Scherrer Institut  
Approved, 12 days GPD
- 20111529 Microscopic Coexistence and Competition of Superconductivity and Magnetism in Ba<sub>1-x</sub>K<sub>x</sub>Fe<sub>2</sub>As<sub>2</sub>  
Dirk Johrendt, Ludwig-Maximilian Univ. Muenchen LMU  
Approved, 3 days GPS
- 20111533 d<sub>0</sub>-Magnetism in Alkaline-Earth Hexaborides  
Andreas Suter, Paul Scherrer Institut  
Approved, 4 days LEM
- 20111535 Depth probe of ferromagnetism in Co-doped TiO<sub>2</sub> thin films in external electric field and photoillumination.  
Hassan Saadaoui, Paul Scherrer Institut  
Approved, 6 days LEM
- 20111560 Control of the structure-magnetism relationship in molecular magnets  
Tom Lancaster, Univ. of Durham  
Approved, 4 days LTF
- 20111561 Investigation of the long range magnetic ordering in a magnetic Ionic Liquid Crystal [Choline][FeCl<sub>4</sub>]  
Manuel de Pedro del Valle, Univ. de Cantabria  
Approved, 1 days GPS
- 20111562 Investigation of high-frequency muon precession in palladium bionanomaterial  
Neil Creamer, Univ. of Birmingham  
Approved, 3 days GPD
- 20111676 Bond disorder in spin-1/2 Heisenberg chains  
Matthias Carsten Thede, Paul Scherrer Institut  
Approved, 2 days GPS
- 20111577 Low Temperature Properties of a Uniform S=1/2 Triangular Lattice System  
Francis L Pratt, Rutherford Appleton Lab.  
Approved, 2 days GPS
- 20111565 Effect of compressive and tensile strain on the superconducting state of LSCO thin films  
Ludovic Howald, Univ. Zuerich  
Approved, 4 days LEM
- 20111567 Low T persistent spin dynamics in the 2d XY AFM pyrochlore system Er<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub>: suppression of critical dynamics by Sn doping  
Jorge Lago, The Univ. of The Basque Country  
Approved, 3 days LTF
- 20111568  $\mu$ SR studies of the magnetic and the structural phase diagrams of Sr(1-x)Eu<sub>x</sub>TiO<sub>3</sub>  
Zurab Guguchia, Univ. Zuerich  
Approved, 2 days GPS



## BVRA-2012 list of PSI $\mu$ SR experiments

- 20111569 Evolution of the magnetic order and its correlation with superconductivity in NdFeAsO(1-x)F(x)  
Gianrico Lamura, Consiglio Nazionale delle Ricerche/CNR-SPIN  
Approved, 2 days GPS
- 20111570 Exploring magnetic correlations in a new S=1/2 kagome antiferromagnet  
Fabrice Bert, Univ. Paris-Sud  
Approved, 1 days GPS
- 20111656 Exploring magnetic correlations in a new S=1/2 kagome antiferromagnet  
Fabrice Bert, Univ. Paris-Sud  
Approved, 2 days LTF
- 20111678 Novel ground states and magnetic order in A2Ir2O7  
Michael J Graf, Boston College  
Approved, 2 days LTF
- 20111575 Odd-frequency spin-triplet superconductivity in Ferromagnetic- Superconducting Devices  
Stephen L Lee, Univ. of St. Andrews  
Approved, 2 days LEM
- 20111578 Study of Dimensionality Tuning of Magnetic Phases of Metallic Oxide Systems in Superlattices by mSR  
Zhiqi Liu, Nat. Univ. of Singapore  
Refused, 0 days LEM
- 20111579  $\mu$ SR experiments on the mixed state in the non-centrosymmetric superconductor BiPd  
Alexander T Holmes, Univ. of Birmingham  
Approved, 2 days GPS
- 20111636  $\mu$ SR experiments on the mixed state in the non-centrosymmetric superconductor BiPd  
Alexander T Holmes, Univ. of Birmingham  
Approved, 2 days LTF
- 20111581  $\mu$ SR studies on a new doped magnetic semiconductors Li(Cd,Mn)P  
Fanlong Ning, Columbia Univ.  
Approved, 3 days GPS
- 20111582 What is the low-temperature ordered state of BaAg<sub>2</sub>Cu[VO<sub>4</sub>]<sub>2</sub>?  
Peter J Baker, Rutherford Appleton Lab.  
Approved, 2 days LTF
- 20111584 Study of geometrically frustrated magnets on a spinel lattice  
Pierre Dalmas de Reotier, CEA, Grenoble  
Approved, 4 days LTF
- 20111589 Study of geometrically frustrated magnets on a spinel lattice  
Pierre Dalmas de Reotier, CEA, Grenoble  
Approved, 4 days GPS
- 20111585 Dynamic Magnetic Properties of Artificial Spin-Ice Systems  
Laura Heyderman, Paul Scherrer Institut  
Approved, 3 days LEM
- 20111586 Muon investigation of the niobates Cu<sub>3</sub>Nb<sub>2</sub>O<sub>8</sub> and Mn<sub>4</sub>Nb<sub>2</sub>O<sub>9</sub>  
Peter J Baker, Rutherford Appleton Lab.  
Approved, 2 days GPS
- 20111587 Reversible ferromagnetic properties of TiO<sub>2</sub> & Nb-SrTiO<sub>3</sub> single crystals by vacuum/atmospheric annealing  
Yongliang Zhao, Nat. Univ. of Singapore  
Refused, 0 days LEM
- 20111588 YBiPt: a candidate topological superconductor  
Antheunis de Visser, Univ. Amsterdam  
Approved, 3 days LTF
- 20111625 YBiPt: a candidate topological superconductor  
Antheunis de Visser, Univ. Amsterdam  
Approved, 1 days GPS

## BVRA-2012 list of PSI $\mu$ SR experiments

- 20111590 The influence of the Fe spin state on the magnetic properties of the parent (undoped) La1111 compound  
Rustem Khasanov, Paul Scherrer Institut  
Refused, 0 days GPS
- 20111619 The influence of the Fe spin state on the magnetic properties of the parent (undoped) La1111 compound  
Rustem Khasanov, Paul Scherrer Institut  
Approved, 6 days GPD
- 20111591 Spin orbit effects in organic spin valves  
Alan J Drew, Queen Mary and Westfield College  
Approved, 5 days LEM
- 20111592 The role of triplet excitons on mounium spin relaxation rates and mounium formation at low energies  
Alan J Drew, Queen Mary and Westfield College  
Approved, 2 days LEM
- 20111593 Investigating Muons Interaction with Multilayer Graphene Epitaxially Grown on a Silicon Carbide Substrate  
Patrick G Soukiassian, Commissariat a L'Energie Atomique (CEA)  
Approved, 4 days LEM
- 20111595 Investigating the spin dynamics of exotic S=1 spin liquid candidates on the Triangular Lattice  
Fabrice Bert, Univ. Paris-Sud  
Approved, 2 days GPS
- 20111677 Investigating the spin dynamics of exotic S=1 spin liquid candidates on the Triangular Lattice  
Fabrice Bert, Univ. Paris-Sud  
Approved, 3 days LTF
- 20111596  $\mu$ SR Study of the Magnetic State in the Overdoped Regime of Fe-Substituted La-214 High-Tc Cuprates  
Tadashi Adachi, Univ. Tohoku  
Approved, 3 days GPS
- 20111599 Spin Ice - Cold but not Frozen  
Sarah R Dunsiger, Techn. Univ. Muenchen  
Approved, 2 days LEM
- 20111603 Low-energy  $\mu$ SR studies of Skyrmions in MnSi and FeGe: continuation request  
Yasutomo J Uemura, Columbia Univ.  
Approved, 1 days GPS
- 20111601  $\mu$ SR study of superfluid density in CeCoIn5 under high pressure  
Tatsuo Goko, Columbia Univ  
Refused, 0 days GPD
- 20111626 Evidence for an Anomalous Superconducting State of Ca3Ir4Sn13  
Simon M Gerber, Paul Scherrer Institut  
Refused, 0 days LTF
- 20111664 Surface and bulk superconductivity in the topological superconductor CuxBi2Se3  
Zaher Salman, Paul Scherrer Institut  
Approved, 2 days GPS
- 20111605 Search for the magnetic monopole image charge in topological insulators  
Zaher Salman, Paul Scherrer Institut  
Approved, 4 days LEM
- 20111607 Study of the Spin Strucgure in the Magnetically Ordered CeRu1-yRhAl10  
Isao Watanabe, RIKEN  
Refused, 0 days GPS
- 20111608  $\mu$ SR studies on SmCu6-xIn6+x (x = 0, 1 and 2)  
Sebastian Chirambatte Peter, Jawaharlal Nehru Centre for Advanced Scientific Research  
Refused, 0 days GPS
- 20111637 Study of quantum criticality in CeCoIn under pressure  
Ludovic Howald, Univ. Zuerich  
Approved, 2 days LTF

## BVRA-2012 list of PSI $\mu$ SR experiments

- 20111611 Meissner screening of photo-persistent superconductivity in underdoped  $\text{YBa}_2\text{Cu}_3\text{O}(7-x)$   
Evelyn Stilp, Univ. Zuerich  
Approved, 6 days LEM
- 20111612 Pressure evolution of an excitonic state in  $\text{SmS}$   
 $\mu$ SR studies using physical and chemical pressures  
Takashi U. Ito, Japan Atomic Energy Agency  
Approved, 6 days GPD
- 20111616 Pressure evolution of an excitonic state in  $\text{SmS}$ :  
 $\mu$ SR studies using physical and chemical pressures  
Takashi U. Ito, Japan Atomic Energy Agency  
Refused, 0 days GPS
- 20111613 Stripe dynamics and spin freezing in  $\text{La}(2-x)\text{Sr}_x\text{CoO}_4$  layered cobaltates  
Tom Lancaster, Univ. of Durham  
Approved, 2 days GPS
- 20111614 The study of magnetic semiconductors by low energy muon spectroscopy  
Jiabao Yi, University of New South Wales  
Approved, 4 days LEM
- 20111615  $\mu$ SR on Thermally Treated  $\text{Rb}_x\text{Fe}_{2-y}\text{Se}_2$  Single Crystals  
Markus M. Bendele, Univ. Zuerich  
Approved, 3 days GPS
- 20111617 Superconducting properties of  $\text{Ca}\{1-x\}\text{Sr}_x\text{AlSi}$   
Markus M. Bendele, Univ. Zuerich  
Refused, 0 days LTF
- 20111618 Superconducting properties of  $\text{Ca}\{1-x\}\text{Sr}_x\text{AlSi}$   
Markus M. Bendele, Univ. Zuerich  
Refused, 0 days GPS
- 20111651 Interplay of itinerant and localized magnetism in  $\text{RECoPO}$  samples under applied hydrostatic pressure  
Giacomo Prando, Univ. degli Studi di Pavia  
Approved, 1 days GPS
- 20111621 Magnetic properties of  $\text{Fe}(1+x)\text{Te}$   
Philipp Materne, Technische Univ. Dresden  
Approved, 2 days GPS
- 20111629 Investigation of Spin Liquid State in Geometrically Frustrated Inorganic Compounds  
Wataru Higemoto, Japan Atomic Energy Agency  
Refused, 0 days LTF
- 20111632 Investigation of Spin Liquid State in Geometrically Frustrated Inorganic Compounds  
Wataru Higemoto, Japan Atomic Energy Agency  
Refused, 0 days GPS
- 20111631  $\mu$ SR study of 1D magnetism in the free radical  $\text{NIT-2Py}$   
Andrea D Bianchi, Univ. de Montreal  
Refused, 0 days LTF
- 20111633 Spin Liquid State in the Triangular Antiferromagnets  $\text{Ba}_3\text{MSb}_2\text{O}_9$  ( $M=\text{Cu},\text{Ni}$ )  
Kwang-Yong Choi, Chung-Ang University  
Refused, 0 days LTF
- 20111635 Spin Liquid State in the Triangular Antiferromagnets  $\text{Ba}_3\text{MSb}_2\text{O}_9$  ( $M=\text{Cu},\text{Ni}$ )  
Kwang-Yong Choi, Chung-Ang University  
Refused, 0 days GPS
- 20111634 Muons and monopoles in spin ice  
Stephen J Blundell, Univ. of Oxford  
Refused, 0 days LTF
- 20111638 Muons and monopoles in spin ice  
Stephen J Blundell, Univ. of Oxford  
Approved, 2 days LEM
- 20111639 Near surface photo-induced effects in p- and n-type germanium  
Thomas Prokscha, Paul Scherrer Institut  
Approved, 4 days LEM

## BVRA-2012 list of PSI $\mu$ SR experiments

- 20111671 Near surface photo-induced effects in p- and n-type germanium  
Thomas Prokscha, Paul Scherrer Institut  
Approved, 2 days GPS
- 20111640 Exploring magnetic phases in 111 superconductors  
Stephen J Blundell, Univ. of Oxford  
Approved, 4 days GPS
- 20111644 Exploring magnetic phases in 111 superconductors  
Stephen J Blundell, Univ. of Oxford  
Approved, 5 days GPD
- 20111641 Field-induced QCP and novel phases in the ferropnictide superconductor  $\text{KFe}_2\text{As}_2$   
Hemke Maeter, Technische Univ. Dresden  
Approved, 2 days GPS
- 20111646 Field-induced QCP and novel phases in the ferropnictide superconductor  $\text{KFe}_2\text{As}_2$   
Hemke Maeter, Technische Univ. Dresden  
Refused, 0 days LTF
- 20111642 Effect of the isoelectronic Ru spinless dilution on magn. & SC properties of  $\text{LaFe}_{1-x}\text{Ru}_x\text{AsO}_{0.89}\text{F}_{0.11}$   
Samuele Sanna, Univ. degli Studi di Pavia  
Approved, 2 days GPS
- 20111645 Effect of the isoelectronic Ru spinless dilution on magnetic & superconducting properties of  $\text{LaFe}_{1-x}\text{Ru}_x\text{AsO}_{0.89}\text{F}_{0.11}$   
Samuele Sanna, Univ. degli Studi di Pavia  
Approved, 2 days LTF
- 20111647 Magnetic Order and Spin Dynamics close to a Ferromagnetic Quantum Critical Point  
Johannes Spehling, Technische Univ. Dresden  
Approved, 3 days LTF
- 20111660 Magnetic Order and Spin Dynamics close to a Ferromagnetic Quantum Critical Point  
Johannes Spehling, Technische Univ. Dresden  
Approved, 1 days GPS
- 20111649 Detailed Study of the Metal-Organic Ferromagnet  $\text{Ni}(\text{TCNQ-d}_4)_2$  Under Extreme Pressure  
Adam Berlie, Univ. of Durham  
Approved, 6 days GPD
- 20111650 Low-energy muon spin rotation study of magnetism and phase separation in Rb-intercalated iron-selenide superconductors.  
Alexander V Boris, Max-Planck-Inst. Stuttgart  
Approved, 3 days LEM
- 20111652 Microscopic interplay of superconducting and magnetic order parameters in ferropnictides  
Hemke Maeter, Technische Univ. Dresden  
Approved, 2 days GPS
- 20111654 Muonium in rare-earth sesquioxides  
Rui C Vilao, Univ. of Coimbra  
Approved, 2 days GPS
- 20111659 Near-surface superconductivity and structure of niobium from superconducting radio frequency cavities  
Alexander Romanenko, Fermilab  
Refused, 0 days LEM
- 20111669 Low energy muon study of self-organized  $\text{GeMn}$  nanocolumns  
Alain Yaouanc, CEA, Grenoble  
Approved, 2 days LEM
- 20111670 Effect of pressure on  $\text{Fe}_y\text{Te}_{1-x}\text{Se}_x$   
Markus M. Bendele, Univ. Zuerich  
Approved, 10 days GPD
- 20111672  $\text{SrPtAs}$  a hexagonal pnictide superconductor with locally broken inversion symmetry  
Johrendt, Ludwig-Maximilian Univ. Muenchen LMU  
Approved, 3 days LTF

## BVRA-2012 list of PSI $\mu$ SR experiments

- 20111674 SrPtAs a hexagonal pnictide superconductor with locally broken inversion symmetry  
Dirk Johrendt, Ludwig-Maximilian Univ. Muenchen LMU  
Refused, 0 days GPS
- 20111673 Magnetic properties near the surface of MgB<sub>2</sub> films and MgB<sub>2</sub>/Nb bilayers.  
Hassan Saadaoui, Paul Scherrer Institut  
Approved, 3 days LEM

## Continuations

- 20110810 Electronic excitations in heavily underdoped La<sub>2-x</sub>Sr<sub>x</sub>CuO<sub>4</sub> studied by muons, neutrons, and ARPES  
Amit Keren, The Israel Inst. of Technology – Technion  
Approved, 1 days GPS
- 20111510 Surface Dynamics of Poly(tetrafluoroethylene)  
Iain D McKenzie, TRIUMF  
Approved, 3 days LEM
- 20111516 Measurement of the Magnetic Properties of Single Molecule Magnets Thin Films  
Zaher Salman, Paul Scherrer Institut  
Approved, 3 days LEM
- 20111519 Relationship between Li diffusion and interlayer distance in LiCoO<sub>2</sub> epitaxial films  
Jun Sugiyama, Toyota Central R&D Labs., Inc.  
Approved, 4 days LEM
- 20111534 (Reverse-) proximity effects in a superconductor/nano-magnet hybrid  
Maarten Trekels, Katholieke Univ. Leuven  
Refused, 0 days LEM
- 20111563 Bond disorder in spin-1/2 Heisenberg chains  
Matthias Carsten Thede, Paul Scherrer Institut  
Approved, 3 days LTF
- 20111564 Low Temperature Properties of a Uniform S=1/2 Triangular Lattice System  
Francis L Pratt, Rutherford Appleton Lab.  
Approved, 2 days LTF
- 20111566 Low Energy  $\mu$ SR of cuprate thin-films: origin of the surface magnetism and superconductivity of T' structure  
Kenji M Kojima, High Energy Acc. Research Org. (KEK)  
Approved, 2 days LEM
- 20111571 Novel ground states and magnetic order in A<sub>2</sub>Ir<sub>2</sub>O<sub>7</sub>  
Michael J Graf, Boston College  
Approved, 2 days GPS
- 20111572 Magnetic ground state of the heavily doped layered pruskite nickelate La<sub>2-x</sub>Sr<sub>x</sub>NiO<sub>4</sub>  
Kenji M Kojima, High Energy Acc. Research Org. (KEK)  
Approved, 3 days GPS
- 20111573 Muon spin relaxation study of a holmium polyoxometalate molecular magnet with potential as a magnetic qubit  
Francis L Pratt, Rutherford Appleton Lab.  
Approved, 2 days LTF
- 20111574 Absolute Value of the Magnetic Penetration Depth in Exotic Superconductors  
Robert F Kiefl, Univ. British Columbia  
Approved, 6 days LEM
- 20111594 Almost like a valence bond solid: Cs<sub>2</sub>Cu<sub>3</sub>SnF<sub>12</sub>  
Peter J Baker, Rutherford Appleton Lab  
Approved, 1 days GPS
- 20111600 Low-energy  $\mu$ SR studies of Skyrmions in MnSi and FeGe: continuation request  
Yasutomo J Uemura, Columbia Univ.  
Approved, 5 days LEM

## BVRA-2012 list of PSI $\mu$ SR experiments

- 20111602 Evidence for an Anomalous Superconducting State of  $\text{Ca}_3\text{Ir}_4\text{Sn}_{13}$   
Simon M Gerber, Paul Scherrer Institut  
Refused, 0 days GPS
- 20111604 Surface and bulk superconductivity in the topological superconductor  $\text{Cu}_x\text{Bi}_2\text{Se}_3$   
Zaher Salman, Paul Scherrer Institut  
Approved, 2 days LTF
- 20111606 From first order Ferromagnetism to Ferromagnetic-cluster glass behaviour in  $\text{La}_{1-x}\text{Ce}_x\text{In}_2$  ( $0 < x < 0.9$ ) series of alloys  
Daniel Rojas Pupo, Univ. Carlos III  
Refused, 0 days GPS
- 20111609 Study of quantum criticality in  $\text{CeCoIn}$  under pressure  
Ludovic Howald, Univ. Zuerich  
Approved, 10 days GPD
- 20111610 Magnetism and superconductivity in  $\text{RNi}_x\text{Bi}_2$ ,  $\text{R}=\text{Ce}, \text{La}, \text{Y}, \text{Nd}$   
Elvezio Morenzoni, Paul Scherrer Institut  
Approved, 2 days GPS
- 20111620 Interplay of itinerant and localized magnetism in  $\text{RECoPO}$  samples under applied hydrostatic pressure  
Giacomo Prando, Univ. degli Studi di Pavia  
Approved, 7 days GPD
- 20111622 Superconductivity induced by proximity effect in a topological insulator.  
Andrea D Bianchi, Univ. de Montreal  
Approved, 2 days LEM
- 20111623 The Effect of Rare-Earth Substitution and Oxygen Reduction on the Magnetic Dimensionality of  $\text{La}_2\text{-xRE}_x\text{CuO}_4\text{-}\delta$  ( $\text{RE}=\text{Er}, \text{Ho}, \text{and Tb}; x = 0.15$ ) Bulk Samples  
Gwendolyne Pascua, Paul Scherrer Institut  
Approved, 2 days GPS
- 20111624 Paramagnetic Muonium as an Electron Spin Detector in Semiconductor Heterostructures  
Sarah R Dunsiger, Techn. Univ. Muenchen  
Approved, 3 days LEM
- 20111628 Magnetic Properties of Quasi Two Dimensional Triangular Antiferromagnets,  $[\text{Pd}(\text{dmit})_2]_2$  Salts.  
Yasuyuki Ishii, Tokyo Medical Univ.  
Refused, 0 days LTF
- 20111643 How does magn. order evolve with Cr-doping in  $\text{Ca}_2(\text{Ru},\text{Cr})\text{O}_4$  and does this correlate with negative volume thermal expansion?  
Peter J Baker, Rutherford Appleton Lab.  
Approved, 1 days GPS
- 20111648 Muonium vacuum yield and diffusion in mesoporous  $\text{SiO}_2$   
Aldo Antognini, ETH Zuerich  
Approved, 5 days LEM
- 20111655 Electron-doping and functionalized heterostructures in  $\text{EuO}$   
Peter J Baker, Rutherford Appleton Lab.  
Approved, 3 days LEM
- 20111657 Spin dynamics in perovskite nickelate artificial superlattices  
Alexander V Boris, Max-Planck-Inst. Stuttgart  
Approved, 4 days LEM