

PSI, Villigen  
March-03, 2014

**MINUTES "BESCHLUSSKONFERENZ"  
OF THE USERS MEETING BV 45 AT PSI  
January 27 - 29, 2014**

present: Dr. K. Clausen (Chairman)  
Dr. C. Hoffman  
Prof. E. Morenzoni  
Prof. K. Kirch  
Dr. Stefan Ritt (Secretary)  
Dr. M. Seidel

excused: Prof. J. Mesot  
Prof. C. Bernhard  
Dr. R. Horisberger  
Dr. C. Petitjean  
Dr. L. Rivkin

# 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-13-02.1      Search for the Muonium Decay  $\mu^+ e^+ \rightarrow \nu_\mu \nu_e$  (MUTON)  
S. Gninenko et al.  
INR Moscow, JINR Dubna, CBU Lyon, ETH Zürich.  
No approval, see committee minutes
- R-14-01.1      Pion induced Change of Material Parameters in Silicon  
T. Rohe, et al.  
PSI, RD50-collaboration CERN, CMS-collaboration CERN, ATLAS-collaboration CERN.  
Approved. 4 weeks in  $\pi$ E1-1 area.
- R-14-02.1      High-brightness ultra-cold muon beam: test of transverse compression (MuCOOL)  
A. Antognini, et al.  
ETH Zürich, PSI, Illinois IT Chicago.  
Approved. 3 weeks in  $\pi$ E1-2 area.
- 20131374      Quantum Ground-State of a Frustrated S=1/2 Hyperkagome Lattice  
Edwin Kermarrec, McMaster Univ.  
Refused, 0 days LTF
- 20131452      Detection of spin-locking in topological insulator Bi<sub>2</sub>Te<sub>3</sub>  
Takayuki Goto, Sophia Univ.  
Approved, 3 days LEM
- 20131700      The study of boron acceptor impurity in synthetic diamond by polarized negative muons  
Tair Mamedov, Joint Inst. for Nuclear Research  
Refused, 0 days HAL-9500
- 20131701      High-field  $\mu$ SR investigations of a Tomonaga-Luttinger liquid in BaCo<sub>2</sub>V<sub>2</sub>O<sub>8</sub>  
Martin Mansson, EPF Lausanne  
Approved, 7 days HAL-9500
- 20131702      Probing spin accumulation at Au/YIG interfaces with muons  
Aisha Aqeel, Univ. Groningen  
Approved, 4 days LEM

- 20131703 Quantum Plaquette Phase of Shastry-Sutherland  $\text{SrCu}_2(\text{BO}_3)_2$   
Martin Mansson, EPF Lausanne  
Approved, 6 days GPD
- 20131870 Quantum Plaquette Phase of Shastry-Sutherland  $\text{SrCu}_2(\text{BO}_3)_2$   
Martin Mansson, EPF Lausanne  
Refused, 0 days LTF
- 20131705 Distribution of glass transition temperature  $T_g$  in polymer thin films  
Toshiji Kanaya, Kyoto Univ.  
Approved, 6 days LEM
- 20131707 Study of the magnetic ordering in strained  $\text{SrMnO}_3$  thin films  
Noelia Marcano Aguado, Centro Universitario de la Defensa Zaragoza (CUD)  
Approved, 4 days LEM
- 20131708 Quantum critical physics in low-dimensional molecular spin ladder systems  
Tom Lancaster, Univ. of Durham  
Approved, 4 days HAL-9500
- 20131711 Testing mechanisms for the suppression of the surface glass transition in polymers  
Francis L Pratt, Rutherford Appleton Lab.  
Approved, 5 days LEM
- 20131712 Pressure-induced quantum phase transition in an anisotropy-gapped quantum magnet  
Alexandra Mannig, ETH Zuerich  
Approved, 8 days GPD
- 20131714 Field induced transition in the  $\text{Nd}^{3+}$  sublattice of the pyrochlore iridate  $\text{Nd}_2\text{Ir}_2\text{O}_7$   
Michael J Graf, Boston College  
Approved, 3 days HAL-9500
- 20131715 Magnetism and superconductivity in H-substituted Fe-based superconductor  $\text{CeFeAsO}_{1-x}\text{H}_x$ .  
Masatoshi Hiraishi, High Energy Acc. Research Org. (KEK)  
Approved, 3 days Dolly
- 20131717 Interplay between bulk magnetism and metallic surface states in topological Kondo insulator  $\text{SmB}_6$   
Pabitra Kumar Biswas, Paul Scherrer Institut  
Refused, 0 days LEM

- 20131743 Interplay between bulk magnetism and metallic surface states in topological Kondo insulator SmB<sub>6</sub>  
Pabitra Kumar Biswas, Paul Scherrer Institut  
Refused, 0 days LTF
- 20131718 Superconducting and magnetic properties of mono-layer FeSe  
Pabitra Kumar Biswas, Paul Scherrer Institut  
Refused, 0 days LEM
- 20131720 Magnetism in a S=1 molecular kagome system  
Tom Lancaster, Univ. of Durham  
Refused, 0 days LTF
- 20131721 Understanding the skyrmion phase in Cu<sub>2</sub>OSeO<sub>3</sub>  
Tom Lancaster, Univ. of Durham  
Approved, 1 days GPS
- 20131724 SUPERCONDUCTING PROPERTIES OF Cs<sub>3</sub>C<sub>60</sub>  
Henri Alloul, Univ. Paris-Sud  
Approved, 7 days GPD
- 20131779 SUPERCONDUCTING PROPERTIES OF Cs<sub>3</sub>C<sub>60</sub>  
Henri Alloul, Univ. Paris-Sud  
Approved, 1 days Dolly
- 20131725 The Cross Correlation Effects in Cu<sub>3</sub>Mo<sub>2</sub>O<sub>9</sub> Probed by muSR Measurements under Electric Fields  
Haruhiko Kuroe, Sophia Univ.  
Refused, 0 days GPS
- 20131793 The Cross Correlation Effects in Cu<sub>3</sub>Mo<sub>2</sub>O<sub>9</sub> Probed by muSR Measurements under Electric Fields  
Haruhiko Kuroe, Sophia Univ.  
Approved, 2 days Dolly
- 20131727 Muonium in the alkaline earth metal oxides  
Rui C Vilao, Univ. of Coimbra  
Approved, 6 days HAL-9500
- 20131755 Muonium in the alkaline earth metal oxides  
Rui C Vilao, Univ. of Coimbra  
Approved, 2 days GPS
- 20131728 Slow Magnetic Relaxation in a Gd-dimer Coordination Polymer  
Francis L Pratt, Rutherford Appleton Lab.  
Refused, 0 days LTF

- 20131729 Symmetry of the superconducting gap in the transition metal-chalcogenide material Nb<sub>2</sub>PdS<sub>5</sub>  
Giacomo Prando, Leibniz-Inst. fuer Festkoerper- und Werkstoffforschung Dresden  
Approved, 1 days GPS
- 20131732 Symmetry of the superconducting gap in the transition metal-chalcogenide material Nb<sub>2</sub>PdS<sub>5</sub>  
Giacomo Prando, Leibniz-Inst. fuer Festkoerper- und Werkstoffforschung Dresden  
Approved, 2 days LTF
- 20131730 Antivortex-vortex states and Jaccarino-Peter effect in pseudoternary Chevrel  
Elvezio Morenzoni, Paul Scherrer Institut  
Approved, 5 days HAL-9500
- 20131805 Antivortex-vortex states and Jaccarino-Peter effect in pseudoternary Chevrel  
Elvezio Morenzoni, Paul Scherrer Institut  
Approved, 2 days LTF
- 20131731 Magnetic order in an S=1/2 chain with Dzyaloshinskii-Moriya interaction  
Manuel Haelg, ETH Zuerich  
Approved, 4 days HAL-9500
- 20131733 Study of the muon Knight shift of the chiral magnet MnSi  
Alex Amato, Paul Scherrer Institut  
Approved, 5 days HAL-9500
- 20131750 Study of the muon Knight shift of the chiral magnet MnSi  
Alex Amato, Paul Scherrer Institut  
Approved, 2 days GPS
- 20131734 mSR studies of Pd substituted IrTe  
Daniel Mazzone, Paul Scherrer Institut  
Approved, 4 days LTF
- 20131857 mSR studies of Pd substituted IrTe  
Daniel Mazzone, Paul Scherrer Institut  
Approved, 2 days GPS
- 20131735 Study of the antiferromagnetic and superconducting phase of Pr<sub>2</sub>Pt<sub>3</sub>Ge<sub>5</sub>  
Daniel Mazzone, Paul Scherrer Institut  
Refused, 0 days LTF
- 20131854 Study of the antiferromagnetic and superconducting phase of Pr<sub>2</sub>Pt<sub>3</sub>Ge<sub>5</sub>  
Daniel Mazzone, Paul Scherrer Institut  
Refused, 0 days GPS

- 20131736 muSR investigation of the quasi two-dimensional magnetic system CoTa<sub>2</sub>O<sub>6</sub>  
Pierre Dalmas de Reotier, CEA, Grenoble  
Approved, 2 days Dolly
- 20131737 Studies of the superconducting and antiferromagnetic phases of Nd<sub>x</sub>Ce(1-x)CoIn<sub>5</sub>  
Daniel Mazzone, Paul Scherrer Institut  
Approved, 3 days LTF
- 20131859 Studies of the superconducting and antiferromagnetic phases of Nd<sub>x</sub>Ce(1-x)CoIn<sub>5</sub>  
Daniel Mazzone, Paul Scherrer Institut  
Approved, 2 days GPS
- 20131740 Magnetism study of layered cobalt oxide by muon spin spectroscopy  
Ruoming Tian, University of New South Wales  
Refused, 0 days GPS
- 20131741 The very low temperature magnetic transition of the Ce<sub>3</sub>Ir<sub>4</sub>Sn<sub>13</sub> heavy fermion.  
Romain Sibille, Paul Scherrer Institut  
Refused, 0 days LTF
- 20131742 muSR characterization of the ordered state of the CdYb<sub>2</sub>S<sub>4</sub> and CdYb<sub>2</sub>Se<sub>4</sub> spinels  
Pierre Dalmas de Reotier, CEA, Grenoble  
Refused, 0 days LTF
- 20131744 Probing spin currents generated by spin Hall effect with muons  
Alain Yaouanc, CEA, Grenoble  
Approved, 4 days LEM
- 20131838 Probing spin currents generated by spin Hall effect with muons  
Alain Yaouanc, CEA, Grenoble  
Approved, 2 days Dolly
- 20131745 A high transverse field study of the gapless S=1/2 triangular lattice system LiZn<sub>2</sub>Mo<sub>3</sub>O<sub>8</sub>  
Francis L Pratt, Rutherford Appleton Lab.  
Approved, 4 days HAL-9500
- 20131746 A muSR study of the superconducting and magnetic properties of quasi-one-dimensional superconductor Nb<sub>2</sub>PdS<sub>5</sub>  
Pabitra Kumar Biswas, Paul Scherrer Institut  
Approved, 4 days Dolly

- 20131874 A muSR study of the superconducting and magnetic properties of quasi-one-dimensional superconductor Nb<sub>2</sub>PdS<sub>5</sub>  
Pabitra Kumar Biswas, Paul Scherrer Institut  
Approved, 6 days GPD
- 20131747 Probing magnetic short-range order in the paramagnetic regime of (Mn,Fe)<sub>2</sub>(P,Si) magnetocaloric compounds  
Xuefei Miao, Delft Univ. of Technology  
Approved, 3 days GPS
- 20131749 Characterization of the quasi-static paramagnetic correlations in Yb pyrochlore geometrically frustrated magnets  
Alain Yaouanc, CEA, Grenoble  
Approved, 5 days LTF
- 20131751 Depth-dependence of the MuT activation energy in n- and p-type germanium  
Thomas Prokscha, Paul Scherrer Institut  
Approved, 4 days LEM
- 20131752 Search for FFLO state and unconventional phases in the high field region of KFe<sub>2</sub>As<sub>2</sub>  
Elvezio Morenzoni, Paul Scherrer Institut  
Approved, 7 days HAL-9500
- 20131829 Search for FFLO state and unconventional phases in the high field region of KFe<sub>2</sub>As<sub>2</sub>  
Elvezio Morenzoni, Paul Scherrer Institut  
Approved, 2 days LTF
- 20131753 Magnetism in a new family of transition metal antimony oxofluorides M<sub>3</sub>Sb<sub>4</sub>O<sub>6</sub>F<sub>6</sub> (M=Co,Ni)  
Jochen Litterst, Techn. Univ. Braunschweig  
Approved, 2 days Dolly
- 20131754 Field Distribution in the Superconducting Vortex State of the Heavy Fermion System CeCoIn<sub>5</sub>  
Ludovic Howald, Univ. Zuerich  
Approved, 6 days HAL-9500
- 20131873 Field Distribution in the Superconducting Vortex State of the Heavy Fermion System CeCoIn<sub>5</sub>  
Ludovic Howald, Univ. Zuerich  
Approved, 1 days GPS
- 20131756 Measurement of magnetic field penetration depth in Nb thin films  
Sergio Calatroni, CERN  
Approved, 3 days LEM

- 20131757 Presence and role of localized magnetic moments in the normal state and superconducting properties of granular Aluminum films  
Nimrod Bachar, Tel Aviv Univ.  
Approved, 6 days LEM
- 20131759 Investigation of the Spin-1 Kagome Antiferromagnet  $\text{Ca}_{10}\text{Cr}_7\text{O}_{28}$   
Christian Balz, Helmholtz Zentrum Berlin fuer Materialien und Energie  
Approved, 3 days LTF
- 20131763 Topological Phase Transitions Driven by Magnetic Phase Transitions in  $\text{FexBi}_2\text{Te}_3$   
Kwang-Yong Choi, Chung-Ang University  
Approved, 3 days GPS
- 20131764 Topological Phase Transitions Driven by Magnetic Phase Transitions in  $\text{FexBi}_2\text{Te}_3$   
Kwang-Yong Choi, Chung-Ang University  
Approved, 3 days LTF
- 20131766 Field-induced quantum phase transitions in the quantum critical regime of a quantum spin ladder  
Alexandra Mannig, ETH Zuerich  
Approved, 5 days HAL-9500
- 20131767 Superconductor proximity effects in  $\text{Sr}_2\text{RuO}_4/\text{Pr}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$  thin-film heterostructures  
Angelo Di Bernardo, Univ. of Cambridge  
Refused, 0 days LEM
- 20131768 High-Pressure  $\mu\text{SR}$  on  $\text{CeT}_2\text{Al}_{10}$   
Hiroshi Tanida, Hiroshima Univ.  
Refused, 0 days GPD
- 20131770 Microscopic investigations of magnetic properties of  $\text{EuTiO}_3$  under high magnetic fields  
Zurab Guguchia, Univ. Zuerich  
Approved, 5 days HAL-9500
- 20131771 Investigation of the pressure effect on magnetic penetration depth in a new layered bismuth oxyselenide:  $\text{LaO}_{0.5}\text{F}_{0.5}\text{BiSe}_2$   
Zurab Guguchia, Univ. Zuerich  
Approved, 6 days GPD
- 20131844 Investigation of the pressure effect on magnetic penetration depth in a new layered bismuth oxyselenide:  $\text{LaO}_{0.5}\text{F}_{0.5}\text{BiSe}_2$   
Zurab Guguchia, Univ. Zuerich  
Refused, 0 days GPS



- 20131847 Investigation of the pressure effect on magnetic penetration depth in a new layered bismuth oxyselenide:  $\text{LaO}_{0.5}\text{F}_{0.5}\text{BiSe}_2$   
Zurab Guguchia, Univ. Zuerich  
Refused, 0 days LTF
- 20131772 Superconductivity and Magnetism in single crystalline Iron-Platinum-Arsenide  $\text{Ca}_{10}(\text{Pt}_3\text{As}_8)(\text{Fe}_{1.79}\text{Pt}_{0.21}\text{As}_2)_5$   
Rajib Sarkar, Technische Univ. Dresden  
Approved, 3 days Dolly
- 20131774 Search for magnetic order in  $\text{YbCo}_2\text{Zn}_{20}$  under pressure  
Sergey L. Bud'ko, Ames Laboratory, Iowa State Univ.  
Refused, 0 days GPD
- 20131775 Evolution of the ground state in vanadium-doped  $\text{LaCrGe}_3$  under pressure: from complex, pressure induced magnetism to ferromagnetic quantum phase transition  
Sergey L. Bud'ko, Ames Laboratory, Iowa State Univ.  
Approved, 10 days GPD
- 20131803 Evolution of the ground state in vanadium-doped  $\text{LaCrGe}_3$  under pressure: from complex, pressure induced magnetism to ferromagnetic quantum phase transition  
Rustem Khasanov, Ames Laboratory, Iowa State Univ.  
Approved, 2 days Dolly
- 20131777 Evolution of the magnetic phase in the mixed-valence iridate oxides  $\text{La}_{(11-x)}\text{Sr}_x\text{Ir}_{(4)}\text{O}_{(24)}$   
Giacomo Prando, Leibniz-Inst. fuer Festkoerper- und Werkstoffforschung Dresden  
Refused, 0 days GPS
- 20131845 Evolution of the magnetic phase in the mixed-valence iridate oxides  $\text{La}_{(11-x)}\text{Sr}_x\text{Ir}_{(4)}\text{O}_{(24)}$   
Giacomo Prando, Leibniz-Inst. fuer Festkoerper- und Werkstoffforschung Dresden  
Refused, 0 days LTF
- 20131778 Pressure and isotope effects on the static spin stripe order in  $\text{La}_{2-x}\text{Nd}_{0.4}\text{Sr}_x\text{CuO}_4$   
Zurab Guguchia, Univ. Zuerich  
Approved, 5 days Dolly
- 20131852 Pressure and isotope effects on the static spin stripe order in  $\text{La}_{2-x}\text{Nd}_{0.4}\text{Sr}_x\text{CuO}_4$   
Zurab Guguchia, Univ. Zuerich  
Approved, 8 days GPD

- 20131781 Studying the poisoning effect of magnetic dopants vs Tc enhancement of chemical pressure in  $\text{La}_{1-y}\text{Y}_y\text{Fe}_{1-x}\text{Mn}_x\text{AsO}_{0.89}\text{F}_{0.11}$   
Franziska Hammerath, Univ. degli Studi di Pavia  
Approved, 3 days Dolly
- 20131782 Pressure dependence of superfluid density in F-substituted  $\text{LaOBiS}_2$   
Lei Shu, Fudan Univ.  
Refused, 0 days LTF
- 20131785 Pressure dependence of superfluid density in F-substituted  $\text{LaOBiS}_2$   
Lei Shu, Fudan Univ.  
Refused, 0 days GPD
- 20131783 MuSR Study of the Magnetic States in Electron-Doped T'-Cuprates: Relating to the Non-Doped Superconductivity  
Tadashi Adachi, Sophia Univ.  
Refused, 0 days GPS
- 20131784 MuSR Study of the Magnetic States in Electron-Doped T'-Cuprates: Relating to the Non-Doped Superconductivity  
Tadashi Adachi, Sophia Univ.  
Approved, 3 days Dolly
- 20131786 Spin manipulation in diluted magnetic semiconductors  
Jiabao Yi, University of New South Wales  
Refused, 0 days LEM
- 20131787 Low-Energy MuSR Studies of  $\text{RENiO}_3$  Accompanied by Nano-scale Optical Conductivity  
Yasutomo J Uemura, Columbia Univ.  
Approved, 4 days LEM
- 20131792 Low-Energy MuSR Studies of  $\text{RENiO}_3$  Accompanied by Nano-scale Optical Conductivity  
Yasutomo J Uemura, Columbia Univ.  
Refused, 0 days GPS
- 20131789 Mechanism of doping-induced reversal in the field dependence of low temperature surface resistance of niobium  
Alexander Romanenko, Fermilab  
Approved, 3 days LEM
- 20131790 High-Statistic Measurements on  $\text{La}_2\text{CuO}_4$  and  $\text{V}_4\text{S}_9\text{Br}_4$  for Accurate Estimations of Muon Sites and Hyperfine Fields  
Isao Watanabe, RIKEN  
Approved, 2 days Dolly

- 20131791 Exotic spin dynamics of the A-site ordered breathing pyrochlore compounds LiGaCr<sub>4</sub>O<sub>8</sub> and LiInCr<sub>4</sub>O<sub>8</sub>  
Kwang-Yong Choi, Chung-Ang University  
Refused, 0 days Dolly
- 20131794 Magnetic Order of p Electrons in Superoxide of CsO<sub>2</sub> and NaO<sub>2</sub>  
Isao Watanabe, RIKEN  
Approved, 3 days Dolly
- 20131795 Electric Field Dependence of the Magnetism in Multiferroics/Magnetoelectrics  
David L Cortie, TRIUMF  
Approved, 5 days LEM
- 20131796 Spin Structures of Pyrochlore Iridates Nd<sub>2</sub>Ir<sub>2</sub>O<sub>7</sub> and Sm<sub>2</sub>Ir<sub>2</sub>O<sub>7</sub>  
Isao Watanabe, RIKEN  
Refused, 0 days GPS
- 20131797 Spin Structures of Pyrochlore Iridates Nd<sub>2</sub>Ir<sub>2</sub>O<sub>7</sub> and Sm<sub>2</sub>Ir<sub>2</sub>O<sub>7</sub>  
Isao Watanabe, RIKEN  
Approved, 2 days Dolly
- 20131799 muon spin rotation experiment for GdRhSn and Dy<sub>2</sub>Cu<sub>2</sub>In compounds  
Sachin B Gupta, Indian Inst. of Technology Bombay - IIT  
Refused, 0 days Dolly
- 20131800 Visualization of the superfluid density and manipulation of the superconducting gap symmetry of Ba<sub>1-x</sub>K<sub>x</sub>Fe<sub>2</sub>As<sub>2</sub> (x = 0.4, 0.5, 0.6) by applying pressure  
Josef E Wiesenmayer, Ludwig-Maximilian Univ. Muenchen LMU  
Approved, 2 days GPS
- 20131816 Visualization of the superfluid density and manipulation of the superconducting gap symmetry of Ba<sub>1-x</sub>K<sub>x</sub>Fe<sub>2</sub>As<sub>2</sub> (x = 0.4, 0.5, 0.6) by applying pressure  
Josef E Wiesenmayer, Ludwig-Maximilian Univ. Muenchen LMU  
Approved, 6 days GPD
- 20131806 Re-examination of the unconventional superconductivity in Sr<sub>2</sub>RuO<sub>4</sub> by muon Knight shift measurements  
Wataru Higemoto, Japan Atomic Energy Agency  
Approved, 3 days LTF
- 20131808 Muon spin relaxation study of Tb<sub>2</sub>Hf<sub>2</sub>O<sub>7</sub>: the forgotten Hafnium analogue of the titanium puzzle  
Romain Sibille, Paul Scherrer Institut  
Approved, 1 days GPS

- 20131811 Investigation of a hybrid vanadium fluoride with structurally isolated  $S = 1$  kagome layers  
Fabrice Bert, Univ. Paris-Sud  
Approved, 2 days GPS
- 20131813 Direct measurements of the magnetic penetration depth of optimally doped  $(\text{LaSr})_2\text{CuO}_4$  in the Meissner state  
Markus M. Bendele, Univ. di Roma La Sapienza  
Approved, 2 days LEM
- 20131814 The role of lattice geometry in magnetism of geometrically frustrated antiferromagnets  $\text{Zn}_x\text{Cu}_{4-x}(\text{OH})_6\text{SO}_4$   
Andrej Zorko, Jozef Stefan Inst.  
Approved, 3 days GPS
- 20131824 The role of lattice geometry in magnetism of geometrically frustrated antiferromagnets  $\text{Zn}_x\text{Cu}_{4-x}(\text{OH})_6\text{SO}_4$   
Andrej Zorko, Jozef Stefan Inst.  
Approved, 2 days LTF
- 20131817 The investigation of magnetic uniformity in diluted magnetic semiconductors  
Xi Luo, University of New South Wales  
Approved, 3 days LEM
- 20131820 Effect of photon induced oxygen ordering on magnetic properties in superoxygenated  $\text{La}_2\text{NiO}_{4+y}$   
Markus M. Bendele, Univ. di Roma La Sapienza  
Approved, 3 days LEM
- 20131821 The doping dependent isotope effect in  $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$   
Markus M. Bendele, Univ. di Roma La Sapienza  
Refused, 0 days GPS
- 20131822 Possible Interplay of Ferromagnetism and Superconductivity in  $\text{Y}_9\text{Co}_7$   
Jacob Larsen, Technical Univ. of Denmark  
Refused, 0 days LTF
- 20131863 Possible Interplay of Ferromagnetism and Superconductivity in  $\text{Y}_9\text{Co}_7$   
Jacob Larsen, Technical Univ. of Denmark  
Refused, 0 days GPS
- 20131823 Spin-dynamics in strongly correlated, fluorinated single-chain magnets  
Kasper S Pedersen, Univ. of Copenhagen  
Approved, 3 days Dolly
- 20131825 Interplay between structure and magnetism in  $\text{Ba}_{(3-x)}\text{Sr}_x\text{Cr}_2\text{O}_8$  probed with muon spin rotation.  
Henrik Grundmann, Univ. Zuerich  
Refused, 0 days GPS

- 20131826      Tuning of Magnetic Correlations in Iridate Pyrochlores  
Sarah R Dunsiger, Techn. Univ. Muenchen  
Approved, 4 days LEM
- 20131828      Anisotropic Penetration Depth Measurement of LSCO with LEM  
Amit Keren, The Israel Inst. of Technology - Technion  
Approved, 2 days LEM
- 20131831      Neel Order in Doped Quasi-One-Dimensional Antiferromagnet  
Gediminas Simutis, ETH Zuerich  
Approved, 3 days LTF
- 20131832      Magnetic-Field-Induced Transition and Criticalities in Quantum Spin Ice  
Yb<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub>  
Yukio Yasui, Meiji University  
Approved, 4 days LTF
- 20131833      Magnetic relaxation processes in two-dimensional systems with controlled  
positional disorder  
Luca Anghinolfi, Paul Scherrer Institut  
Approved, 4 days LEM
- 20131835      uSR Study on Magnetic Fluctuations in a S = 3/2 Spinel Oxide LiInCr<sub>4</sub>O<sub>8</sub>  
with a Breathing Pyrochlore Lattice  
Amir-Abbas Haghhighirad, Oxford Univ.  
Approved, 2 days Dolly
- 20131842      uSR Study on Magnetic Fluctuations in a S = 3/2 Spinel Oxide LiInCr<sub>4</sub>O<sub>8</sub>  
with a Breathing Pyrochlore Lattice  
Amir-Abbas Haghhighirad, Oxford Univ.  
Refused, 0 days GPS
- 20131836      Evolution of the Neel temperature with doping in Y substituted  
Bi<sub>2</sub>Sr<sub>2</sub>CaCu<sub>2</sub>O thin-films  
Amit Kanigel, The Israel Inst. of Technology - Technion  
Approved, 4 days LEM
- 20131837      Exploring the phase formed in the quantum critical metal Sr<sub>3</sub>Ru<sub>2</sub>O<sub>7</sub>  
Stephen J Blundell, Univ. of Oxford  
Approved, 4 days HAL-9500
- 20131840      Evolution of two-gap behavior of the superconductor Ba<sub>0.6</sub>Rb<sub>0.4</sub>Fe<sub>2</sub>As<sub>2</sub> with  
hydrostatic pressure  
Zurab Guguchia, Univ. Zuerich  
Approved, 6 days GPD
- 20131848      Evolution of two-gap behavior of the superconductor Ba<sub>0.6</sub>Rb<sub>0.4</sub>Fe<sub>2</sub>As<sub>2</sub> with  
hydrostatic pressure  
Zurab Guguchia, Univ. Zuerich  
Approved, 1 days Dolly

- 20131841 Competition of ferro- and antiferromagnetism in copper containing members of the 111 pnictide family  
Sirko Kamusella, Technische Univ. Dresden  
Refused, 0 days GPS
- 20131843 Checking for magneto-electronic phase separation in a correlated TM oxide system with colossal exchange anisotropy  
Jorge Lago, The Univ. of The Basque Country  
Approved, 2 days Dolly
- 20131846 Probing spin-polarized superconductivity in Au/Co/Cu/Ho/Nb thin film heterostructures  
Angelo Di Bernardo, Univ. of Cambridge  
Approved, 4 days LEM
- 20131849 Spin ice states in pyrochlore germanates  
Stephen J Blundell, Univ. of Oxford  
Approved, 3 days GPS
- 20131853 Spin ice states in pyrochlore germanates  
Stephen J Blundell, Univ. of Oxford  
Approved, 3 days LTF
- 20131850 Investigation of the Spin Dynamics in the  $S = 1/2$  Spin Liquid Candidate  $\text{Lu}_2\text{Mo}_2\text{O}_5\text{N}_2$   
Lucy Clark, McMaster Univ.  
Approved, 2 days LTF
- 20131856 Spin dynamics in Beta-diketone  
Alan J Drew, Queen Mary and Westfield College  
Refused, 0 days GPS
- 20131858 Magnetic polarons and muon-induced effects in EuO and EuS  
Stephen J Blundell, Univ. of Oxford  
Refused, 0 days HAL-9500
- 20131860 Probing the [FeFe]-hydrogenase subsite using  $\mu\text{SR}$   
Jamie N. T. Peck, Rutherford Appleton Lab.  
Approved, 4 days GPD
- 20131861 High Transverse Field Muon Spin Rotation Study of the Field Induced Magnetism in Superconducting O/Sr co-doped  $\text{La}_{2-x}\text{Sr}_x\text{CuO}_{4+y}$   
Jacob Larsen, Technical Univ. of Denmark  
Approved, 4 days HAL-9500
- 20131862 Investigation of a Superconducting Thin Film Battery Material  
Martin Mansson, EPF Lausanne  
Approved, 4 days LEM

- 20131864      Magnetic Phase Diagram of Hyperhoneycomb Beta-Li<sub>2</sub>IrO<sub>3</sub>  
Giorgi Ghambashidze, Max-Planck-Inst. Stuttgart  
Approved, 1 days GPS
- 20131865      Search for a magnetic field induced transition in the inhomogeneous  
ferromagnetic state of the quantum spin ice Yb<sub>2</sub>Sn<sub>2</sub>O<sub>7</sub>  
Jorge Lago, The Univ. of The Basque Country  
Refused, 0 days LTF
- 20131866      Investigate the superconducting ground state of the Ba-doped ammonia  
intercalated FeSe superconductor  
Takashi Kambe, Okayama Univ.  
Approved, 3 days GPS
- 20131867      Novel excitonic magnetism in Barium iridates with strong spin orbit coupling  
Hans-Henning Klauss, Technische Univ. Dresden  
Approved, 1 days GPS
- 20131869      Novel excitonic magnetism in Barium iridates with strong spin orbit coupling  
Hans-Henning Klauss, Technische Univ. Dresden  
Refused, 0 days Dolly
- 20131868      Revisit the magnetic ordering of body centered tetragonal T'-Pr<sub>2</sub>CuO<sub>4</sub>  
Hubertus Luetkens, Paul Scherrer Institut  
Approved, 3 days Dolly
- 20131872      Interaction of Mu- in n-type GaAs with photo-generated carriers  
Thomas Prokscha, Paul Scherrer Institut  
Approved, 3 days LEM
- 20131875      Ferromagnetic quantum criticality in FeGa<sub>3-x</sub>Gex  
Hans-Henning Klauss, Technische Univ. Dresden  
Approved, 2 days GPS

## 2. Beam schedules

The 590 MeV ring accelerator is scheduled for 32 weeks of high intensity beam production from May 15 to December 22.

Unfortunately, the MuCOOL experiment R-14-02 had to be cut from 4 to 2.5 weeks due to limited beam time available in piE1 area's. Therefore, the operators of muSR "DOLLY" are invited to finish their program in December a few days earlier if possible.

The Spin Rotator generally installed in piE1 will be used this year also in piE5. To avoid damages it is strongly recommended that the total operational voltage is kept below 540 kV.

As usual, the beam schedules 2014 will be regularly updated and are displayed on the internet:

- <http://www.psi.ch/ltp/facilities> for the general schedule
- <http://www.psi.ch/lmu/beamtime-schedule> for  $\mu$ SR details

## 3. Acknowledgement

At this meeting Dr. Cyrus Hoffman finished his term as BVR president. We congratulate and thank him very much for his 13 years long superb lead of all BVR user meetings! We are happy that Cy will continue to serve the committee for a transition period. To the new president, Prof. Bradley W. Filippone, we wish good luck and as much success in the coming years!

## 4. Varia

The next meeting **BV46** is scheduled for **February 09 - 11, 2015**. The first day is reserved for reviews of MUSE, Mu3e,  $\mu e \gamma$  and UCN experiments. The **deadline** for beam requests, new proposals and addenda is **January 15, 2015**. Users are requested to make electronic submissions of their documents (pdf files).

The dates for the next meeting BVRA-2014 are not fixed yet.

## Attachments

- PSI 590 MeV HE Program 2014 can be found on [http://www.psi.ch/ltp/FacilitiesEN/schedule\\_2014.pdf](http://www.psi.ch/ltp/FacilitiesEN/schedule_2014.pdf)
- BV45 list of PSI HE experiments



- BVRA-2014 list of PSI  $\mu$ SR experiments
- the short minutes with recommendations of the scientific committee for particle physics experiments can be found on <http://www.psi.ch/ltp/previous-users-meeting>

**BV45 LIST OF PSI  $\pi/\mu$  EXPERIMENTS: BEAM REQUESTS AND ALLOCATIONS 2014**

AREA	PROPOSAL	SPOKESPERSONS	EXPERIMENT	BEAM STATUS (1 Week ~ 6 beam days)			BEAM ALLOCATIONS 2014		
				Used	Allocation	Ref.	Request	Remarks	Allocation
$\pi$ M1	Praktikum	GRAB,SCHOENING	praktikum ETH-Heidelberg		appr.		3 W	25.08. - 12.09.2014	3 W
	R-12-01	GILMAN	beamtests for MUSE	16 W	tests	appr. BV44	4.5 W	2W June, 2.5W Dec	4.5 W
	R-12-03	SCHOENING	tests $\mu \rightarrow eee$	4 W		appr. BV44	2 W	1W June, 1W Oct	2 W
	R-99-05	MORI, BALDINI	tests MEG II			appr. BV44	4 W	05.11.-03.12.2014	4 W
		HAJDAS DEITERS (coordinator)	irradiations test experiments				2.5 W 18 W	15.05.-02.06.2014 allocations later	2.5 W 18 W
$\pi$ M3	RA-Progra	AMATO (coordinator)	$\mu$ SR (GPS & LTF)			(see BVRA)	32 W		32 W
$\pi$ E1	RA-Progra	AMATO (coordinator)	$\mu$ SR with DOLLY			(see BVRA)	14 W	12.6.-21.7+9.10.-3.12.	14 W
	R-14-01	ROHE	$\pi$ -Si irradiations			appr. BV45	4 W	15.5. - 11.6. 2014	4 W
	R-08-01	KAMMEL,PETITJEAN	$\mu$ -d capture (MuSun)	45 W		appr. BV39	12 W	24.7. - 08.10.2014	11 W
	R-14-02	ANTOGNINI	MuCOOL			appr. BV45	4 W	03.12.- 22.12.2014	2.5 W
$\pi$ E3	RA-Progra	SCHEUERMANN (coord.)	high field $\mu$ SR			(see BVRA)	32 W		32 W
$\pi$ E5	R-99-05	MORI, BALDINI	$\mu \rightarrow e + \gamma$ (MEG II)			appr. BV44	5.5 W	16.10. - 23.11. 2014	5.5 W
	R-12-03	SCHOENING	$\mu \rightarrow eee$			appr. BV44	6 W tests	2.-13.10.+24.11.-22.12.	6 W tests
	R-10-01	KOTTMANN, POHL	$\mu$ -Helium Lambshift	12 W		appr. BV41	12 W	15.05. - 06.08.2014	12 W
	R-13-01	HORI	$\pi$ He Laser Spectroscopy	2 W		appr. BV44	8 W	07.08. - 01.10.2014	8 W
$\mu$ E1	RA-Progra	AMATO (coordinator)	$\mu$ SR (GPD)			(see BVRA)	32 W		32 W
$\mu$ E4	slow $\mu^+$	PROKSCHA (coordinator)	LEM slow $\mu^+$ facility			(see BVRA)	32 W		32 W
UCN	R-05-03	BAN, KIRCH	nEDM			appr. BV36	32 W		32 W

## BVRA-2014 list of PSI $\mu$ SR experiments

### New Proposals

20131374	Quantum Ground-State of a Frustrated S=1/2 Hyperkagome Lattice Edwin Kermarrec, McMaster Univ. Refused, 0 days LTF
20131452	Detection of spin-locking in topological insulator Bi <sub>2</sub> Te <sub>3</sub> Takayuki Goto, Sophia Univ. Approved, 3 days LEM
20131700	The study of boron acceptor impurity in synthetic diamond by polarized negative muons Tair Mamedov, Joint Inst. for Nuclear Research Refused, 0 days HAL-9500
20131701	High-field $\mu$ SR investigations of a Tomonaga-Luttinger liquid in BaCo <sub>2</sub> V <sub>2</sub> O <sub>8</sub> Martin Mansson, EPF Lausanne Approved, 7 days HAL-9500
20131702	Probing spin accumulation at Au/YIG interfaces with muons Aisha Aqeel, Univ. Groningen Approved, 4 days LEM
20131703	Quantum Plaquette Phase of Shastry-Sutherland SrCu <sub>2</sub> (BO <sub>3</sub> ) <sub>2</sub> Martin Mansson, EPF Lausanne Approved, 6 days GPD
20131870	Quantum Plaquette Phase of Shastry-Sutherland SrCu <sub>2</sub> (BO <sub>3</sub> ) <sub>2</sub> Martin Mansson, EPF Lausanne Refused, 0 days LTF
20131705	Distribution of glass transition temperature T <sub>g</sub> in polymer thin films Toshiji Kanaya, Kyoto Univ. Approved, 6 days LEM

BVRA-2014 list of PSI  $\mu$ SR experiments

20131707	<p>Study of the magnetic ordering in strained SrMnO<sub>3</sub> thin films          Noelia Marcano Aguado, Centro Universitario de la Defensa Zaragoza (CUD)          Approved, 4 days LEM</p>
20131708	<p>Quantum critical physics in low-dimensional molecular spin ladder systems          Tom Lancaster, Univ. of Durham          Approved, 4 days HAL-9500</p>
20131711	<p>Testing mechanisms for the suppression of the surface glass transition in polymers          Francis L Pratt, Rutherford Appleton Lab.          Approved, 5 days LEM</p>
20131712	<p>Pressure-induced quantum phase transition in an anisotropy-gapped quantum magnet          Alexandra Mannig, ETH Zuerich          Approved, 8 days GPD</p>
20131714	<p>Field induced transition in the Nd<sup>3+</sup> sublattice of the pyrochlore iridate Nd<sub>2</sub>Ir<sub>2</sub>O<sub>7</sub>          Michael J Graf, Boston College          Approved, 3 days HAL-9500</p>
20131715	<p>Magnetism and superconductivity in H-substituted Fe-based superconductor CeFeAsO<sub>1-x</sub>H<sub>x</sub>.          Masatoshi Hiraishi, High Energy Acc. Research Org. (KEK)          Approved, 3 days Dolly</p>
20131717	<p>Interplay between bulk magnetism and metallic surface states in topological Kondo insulator SmB<sub>6</sub>          Pabitra Kumar Biswas, Paul Scherrer Institut          Refused, 0 days LEM</p>
20131743	<p>Interplay between bulk magnetism and metallic surface states in topological Kondo insulator SmB<sub>6</sub>          Pabitra Kumar Biswas, Paul Scherrer Institut          Refused, 0 days LTF</p>

BVRA-2014 list of PSI  $\mu$ SR experiments

20131718	Superconducting and magnetic properties of mono-layer FeSe Pabitra Kumar Biswas, Paul Scherrer Institut Refused, 0 days LEM
20131720	Magnetism in a S=1 molecular kagome system Tom Lancaster, Univ. of Durham Refused, 0 days LTF
20131721	Understanding the skyrmion phase in Cu <sub>2</sub> OSeO <sub>3</sub> Tom Lancaster, Univ. of Durham Approved, 1 days GPS
20131724	SUPERCONDUCTING PROPERTIES OF Cs <sub>3</sub> C <sub>60</sub> Henri Alloul, Univ. Paris-Sud Approved, 7 days GPD
20131779	SUPERCONDUCTING PROPERTIES OF Cs <sub>3</sub> C <sub>60</sub> Henri Alloul, Univ. Paris-Sud Approved, 1 days Dolly
20131725	The Cross Correlation Effects in Cu <sub>3</sub> Mo <sub>2</sub> O <sub>9</sub> Probed by $\mu$ SR Measurements under Electric Fields Haruhiko Kuroe, Sophia Univ. Refused, 0 days GPS
20131793	The Cross Correlation Effects in Cu <sub>3</sub> Mo <sub>2</sub> O <sub>9</sub> Probed by $\mu$ SR Measurements under Electric Fields Haruhiko Kuroe, Sophia Univ. Approved, 2 days Dolly
20131727	Muonium in the alkaline earth metal oxides Rui C Vilao, Univ. of Coimbra Approved, 6 days HAL-9500

BVRA-2014 list of PSI  $\mu$ SR experiments

20131755	Muonium in the alkaline earth metal oxides Rui C Vilao, Univ. of Coimbra Approved, 2 days GPS
20131728	Slow Magnetic Relaxation in a Gd-dimer Coordination Polymer Francis L Pratt, Rutherford Appleton Lab. Refused, 0 days LTF
20131729	Symmetry of the superconducting gap in the transition metal-chalcogenide material Nb <sub>2</sub> PdS <sub>5</sub> Giacomo Prando, Leibniz-Inst. fuer Festkoerper- und Werkstofforschung Dresden Approved, 1 days GPS
20131732	Symmetry of the superconducting gap in the transition metal-chalcogenide material Nb <sub>2</sub> PdS <sub>5</sub> Giacomo Prando, Leibniz-Inst. fuer Festkoerper- und Werkstofforschung Dresden Approved, 2 days LTF
20131730	Antivortex-vortex states and Jaccarino-Peter effect in pseudoternary Chevrel Elvezio Morenzoni, Paul Scherrer Institut Approved, 5 days HAL-9500
20131805	Antivortex-vortex states and Jaccarino-Peter effect in pseudoternary Chevrel Elvezio Morenzoni, Paul Scherrer Institut Approved, 2 days LTF
20131731	Magnetic order in an S=1/2 chain with Dzyaloshinskii-Moriya interaction Manuel Haelg, ETH Zuerich Approved, 4 days HAL-9500
20131733	Study of the muon Knight shift of the chiral magnet MnSi Alex Amato, Paul Scherrer Institut Approved, 5 days HAL-9500

BVRA-2014 list of PSI  $\mu$ SR experiments

20131750	Study of the muon Knight shift of the chiral magnet MnSi Alex Amato, Paul Scherrer Institut Approved, 2 days GPS
20131734	mSR studies of Pd substituted IrTe Daniel Mazzone, Paul Scherrer Institut Approved, 4 days LTF
20131857	mSR studies of Pd substituted IrTe Daniel Mazzone, Paul Scherrer Institut Approved, 2 days GPS
20131735	Study of the antiferromagnetic and superconducting phase of Pr <sub>2</sub> Pt <sub>3</sub> Ge <sub>5</sub> Daniel Mazzone, Paul Scherrer Institut Refused, 0 days LTF
20131854	Study of the antiferromagnetic and superconducting phase of Pr <sub>2</sub> Pt <sub>3</sub> Ge <sub>5</sub> Daniel Mazzone, Paul Scherrer Institut Refused, 0 days GPS
20131736	muSR investigation of the quasi two-dimensional magnetic system CoTa <sub>2</sub> O <sub>6</sub> Pierre Dalmas de Reotier, CEA, Grenoble Approved, 2 days Dolly
20131737	Studies of the superconducting and antiferromagnetic phases of Nd <sub>x</sub> Ce <sub>(1-x)</sub> CoIn <sub>5</sub> Daniel Mazzone, Paul Scherrer Institut Approved, 3 days LTF
20131859	Studies of the superconducting and antiferromagnetic phases of Nd <sub>x</sub> Ce <sub>(1-x)</sub> CoIn <sub>5</sub> Daniel Mazzone, Paul Scherrer Institut Approved, 2 days GPS
20131740	Magnetism study of layered cobalt oxide by muon spin spectroscopy Ruoming Tian, University of New South Wales Refused, 0 days GPS

## BVRA-2014 list of PSI $\mu$ SR experiments

20131741	The very low temperature magnetic transition of the Ce <sub>3</sub> Ir <sub>4</sub> Sn <sub>13</sub> heavy fermion. Romain Sibille, Paul Scherrer Institut Refused, 0 days LTF
20131742	$\mu$ SR characterization of the ordered state of the CdYb <sub>2</sub> S <sub>4</sub> and CdYb <sub>2</sub> Se <sub>4</sub> spinels Pierre Dalmas de Reotier, CEA, Grenoble Refused, 0 days LTF
20131744	Probing spin currents generated by spin Hall effect with muons Alain Yaouanc, CEA, Grenoble Approved, 4 days LEM
20131838	Probing spin currents generated by spin Hall effect with muons Alain Yaouanc, CEA, Grenoble Approved, 2 days Dolly
20131745	A high transverse field study of the gapless S=1/2 triangular lattice system LiZn <sub>2</sub> Mo <sub>3</sub> O <sub>8</sub> Francis L Pratt, Rutherford Appleton Lab. Approved, 4 days HAL-9500
20131746	A $\mu$ SR study of the superconducting and magnetic properties of quasi-one-dimensional superconductor Nb <sub>2</sub> Pd <sub>5</sub> Pabitra Kumar Biswas, Paul Scherrer Institut Approved, 4 days Dolly
20131874	A $\mu$ SR study of the superconducting and magnetic properties of quasi-one-dimensional superconductor Nb <sub>2</sub> Pd <sub>5</sub> Pabitra Kumar Biswas, Paul Scherrer Institut Approved, 6 days GPD
20131747	Probing magnetic short-range order in the paramagnetic regime of (Mn,Fe) <sub>2</sub> (P,Si) magnetocaloric compounds Xuefei Miao, Delft Univ. of Technology Approved, 3 days GPS



BVRA-2014 list of PSI  $\mu$ SR experiments

20131749	<p>Characterization of the quasi-static paramagnetic correlations in Yb pyrochlore geometrically frustrated magnets                  Alain Yaouanc, CEA, Grenoble                  Approved, 5 days LTF</p>
20131751	<p>Depth-dependence of the MuT activation energy in n- and p-type germanium                  Thomas Prokscha, Paul Scherrer Institut                  Approved, 4 days LEM</p>
20131752	<p>Search for FFLO state and unconventional phases in the high field region of <math>KFe_2As_2</math>                  Elvezio Morenzoni, Paul Scherrer Institut                  Approved, 7 days HAL-9500</p>
20131829	<p>Search for FFLO state and unconventional phases in the high field region of <math>KFe_2As_2</math>                  Elvezio Morenzoni, Paul Scherrer Institut                  Approved, 2 days LTF</p>
20131753	<p>Magnetism in a new family of transition metal antimony oxofluorides <math>M_3Sb_4O_6F_6</math> (M=Co,Ni)                  Jochen Litterst, Techn. Univ. Braunschweig                  Approved, 2 days Dolly</p>
20131754	<p>Field Distribution in the Superconducting Vortex State of the Heavy Fermion System <math>CeCoIn_5</math>                  Ludovic Howald, Univ. Zuerich                  Approved, 6 days HAL-9500</p>
20131873	<p>Field Distribution in the Superconducting Vortex State of the Heavy Fermion System <math>CeCoIn_5</math>                  Ludovic Howald, Univ. Zuerich                  Approved, 1 days GPS</p>

BVRA-2014 list of PSI  $\mu$ SR experiments

20131756	Measurement of magnetic field penetration depth in Nb thin films Sergio Calatroni, CERN Approved, 3 days LEM
20131757	Presence and role of localized magnetic moments in the normal state and superconducting properties of granular Aluminum films Nimrod Bachar, Tel Aviv Univ. Approved, 6 days LEM
20131759	Investigation of the Spin-1 Kagome Antiferromagnet $\text{Ca}_{10}\text{Cr}_7\text{O}_{28}$ Christian Balz, Helmholtz Zentrum Berlin fuer Materialien und Energie Approved, 3 days LTF
20131763	Topological Phase Transitions Driven by Magnetic Phase Transitions in $\text{FexBi}_2\text{Te}_3$ Kwang-Yong Choi, Chung-Ang University Approved, 3 days GPS
20131764	Topological Phase Transitions Driven by Magnetic Phase Transitions in $\text{FexBi}_2\text{Te}_3$ Kwang-Yong Choi, Chung-Ang University Approved, 3 days LTF
20131766	Field-induced quantum phase transitions in the quantum critical regime of a quantum spin ladder Alexandra Mannig, ETH Zuerich Approved, 5 days HAL-9500
20131767	Superconductor proximity effects in $\text{Sr}_2\text{RuO}_4$ / $\text{Pr}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ thin-film heterostructures Angelo Di Bernardo, Univ. of Cambridge Refused, 0 days LEM
20131768	High-Pressure $\mu$ SR on $\text{CeT}_2\text{Al}_{10}$ Hiroshi Tanida, Hiroshima Univ. Refused, 0 days GPD

BVRA-2014 list of PSI  $\mu$ SR experiments

20131770	Microscopic investigations of magnetic properties of $\text{EuTiO}_3$ under high magnetic fields Zurab Guguchia, Univ. Zuerich Approved, 5 days HAL-9500
20131771	Investigation of the pressure effect on magnetic penetration depth in a new layered bismuth oxyselenide: $\text{LaO}_{0.5}\text{F}_{0.5}\text{BiSe}_2$ Zurab Guguchia, Univ. Zuerich Approved, 6 days GPD
20131844	Investigation of the pressure effect on magnetic penetration depth in a new layered bismuth oxyselenide: $\text{LaO}_{0.5}\text{F}_{0.5}\text{BiSe}_2$ Zurab Guguchia, Univ. Zuerich Refused, 0 days GPS
20131847	Investigation of the pressure effect on magnetic penetration depth in a new layered bismuth oxyselenide: $\text{LaO}_{0.5}\text{F}_{0.5}\text{BiSe}_2$ Zurab Guguchia, Univ. Zuerich Refused, 0 days LTF
20131772	Superconductivity and Magnetism in single crystalline Iron-Platinum-Arsenide $\text{Ca}_{10}(\text{Pt}_3\text{As}_8)(\text{Fe}_{1.79}\text{Pt}_{0.21}\text{As}_2)_5$ Rajib Sarkar, Technische Univ. Dresden Approved, 3 days Dolly
20131774	Search for magnetic order in $\text{YbCo}_2\text{Zn}_{20}$ under pressure Sergey L. Bud'ko, Ames Laboratory, Iowa State Univ. Refused, 0 days GPD
20131775	Evolution of the ground state in vanadium-doped $\text{LaCrGe}_3$ under pressure: from complex, pressure induced magnetism to ferromagnetic quantum phase transition Sergey L. Bud'ko, Ames Laboratory, Iowa State Univ. Approved, 10 days GPD

BVRA-2014 list of PSI  $\mu$ SR experiments

20131803	Evolution of the ground state in vanadium-doped $\text{LaCrGe}_3$ under pressure: from complex, pressure induced magnetism to ferromagnetic quantum phase transition Rustem Khasanov, Ames Laboratory, Iowa State Univ. Approved, 2 days Dolly
20131777	Evolution of the magnetic phase in the mixed-valence iridate oxides $\text{La}_{(11-x)}\text{Sr}_x\text{Ir}_{(4)}\text{O}_{(24)}$ Giacomo Prando, Leibniz-Inst. fuer Festkoerper- und Werkstofforschung Dresden Refused, 0 days GPS
20131845	Evolution of the magnetic phase in the mixed-valence iridate oxides $\text{La}_{(11-x)}\text{Sr}_x\text{Ir}_{(4)}\text{O}_{(24)}$ Giacomo Prando, Leibniz-Inst. fuer Festkoerper- und Werkstofforschung Dresden Refused, 0 days LTF
20131778	Pressure and isotope effects on the static spin stripe order in $\text{La}_{2-x}\text{Nd}_{0.4}\text{Sr}_x\text{CuO}_4$ Zurab Guguchia, Univ. Zuerich Approved, 5 days Dolly
20131852	Pressure and isotope effects on the static spin stripe order in $\text{La}_{2-x}\text{Nd}_{0.4}\text{Sr}_x\text{CuO}_4$ Zurab Guguchia, Univ. Zuerich Approved, 8 days GPD
20131781	Studying the poisoning effect of magnetic dopants vs Tc enhancement of chemical pressure in $\text{La}_{1-y}\text{Y}_y\text{Fe}_{1-x}\text{Mn}_x\text{AsO}_{0.89}\text{F}_{0.11}$ Franziska Hammerath, Univ. degli Studi di Pavia Approved, 3 days Dolly
20131782	Pressure dependence of superfluid density in F-substituted $\text{LaOBiS}_2$ Lei Shu, Fudan Univ. Refused, 0 days LTF
20131785	Pressure dependence of superfluid density in F-substituted $\text{LaOBiS}_2$ Lei Shu, Fudan Univ. Refused, 0 days GPD

BVRA-2014 list of PSI  $\mu$ SR experiments

20131783	MuSR Study of the Magnetic States in Electron-Doped T'-Cuprates: Relating to the Non-Doped Superconductivity Tadashi Adachi, Sophia Univ. Refused, 0 days GPS
20131784	MuSR Study of the Magnetic States in Electron-Doped T'-Cuprates: Relating to the Non-Doped Superconductivity Tadashi Adachi, Sophia Univ. Approved, 3 days Dolly
20131786	Spin manipulation in diluted magnetic semiconductors Jiabao Yi, University of New South Wales Refused, 0 days LEM
20131787	Low-Energy MuSR Studies of RENiO <sub>3</sub> Accompanied by Nano-scale Optical Conductivity Yasutomo J Uemura, Columbia Univ. Approved, 4 days LEM
20131792	Low-Energy MuSR Studies of RENiO <sub>3</sub> Accompanied by Nano-scale Optical Conductivity Yasutomo J Uemura, Columbia Univ. Refused, 0 days GPS
20131789	Mechanism of doping-induced reversal in the field dependence of low temperature surface resistance of niobium Alexander Romanenko, Fermilab Approved, 3 days LEM
20131790	High-Statistic Measurements on La <sub>2</sub> CuO <sub>4</sub> and V <sub>4</sub> S <sub>9</sub> Br <sub>4</sub> for Accurate Estimations of Muon Sites and Hyperfine Fields Isao Watanabe, RIKEN Approved, 2 days Dolly

BVRA-2014 list of PSI  $\mu$ SR experiments

20131791	Exotic spin dynamics of the A-site ordered breathing pyrochlore compounds LiGaCr <sub>4</sub> O <sub>8</sub> and LiInCr <sub>4</sub> O <sub>8</sub> Kwang-Yong Choi, Chung-Ang University Refused, 0 days Dolly
20131794	Magnetic Order of p Electrons in Superoxide of CsO <sub>2</sub> and NaO <sub>2</sub> Isao Watanabe, RIKEN Approved, 3 days Dolly
20131795	Electric Field Dependence of the Magnetism in Multiferroics/Magnetoelectrics David L Cortie, TRIUMF Approved, 5 days LEM
20131796	Spin Structures of Pyrochlore Iridates Nd <sub>2</sub> Ir <sub>2</sub> O <sub>7</sub> and Sm <sub>2</sub> Ir <sub>2</sub> O <sub>7</sub> Isao Watanabe, RIKEN Refused, 0 days GPS
20131797	Spin Structures of Pyrochlore Iridates Nd <sub>2</sub> Ir <sub>2</sub> O <sub>7</sub> and Sm <sub>2</sub> Ir <sub>2</sub> O <sub>7</sub> Isao Watanabe, RIKEN Approved, 2 days Dolly
20131799	muon spin rotation experiment for GdRhSn and Dy <sub>2</sub> Cu <sub>2</sub> In compounds Sachin B Gupta, Indian Inst. of Technology Bombay - IIT Refused, 0 days Dolly
20131800	Visualization of the superfluid density and manipulation of the superconducting gap symmetry of Ba <sub>1-x</sub> K <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> (x = 0.4, 0.5, 0.6) by applying pressure Josef E Wiesenmayer, Ludwig-Maximilian Univ. Muenchen LMU Approved, 2 days GPS
20131816	Visualization of the superfluid density and manipulation of the superconducting gap symmetry of Ba <sub>1-x</sub> K <sub>x</sub> Fe <sub>2</sub> As <sub>2</sub> (x = 0.4, 0.5, 0.6) by applying pressure Josef E Wiesenmayer, Ludwig-Maximilian Univ. Muenchen LMU Approved, 6 days GPD

BVRA-2014 list of PSI  $\mu$ SR experiments

20131806	<p>Re-examination of the unconventional superconductivity in Sr<sub>2</sub>RuO<sub>4</sub> by muon Knight shift measurements  Wataru Higemoto, Japan Atomic Energy Agency  Approved, 3 days LTF</p>
20131808	<p>Muon spin relaxation study of Tb<sub>2</sub>Hf<sub>2</sub>O<sub>7</sub>: the forgotten Hafnium analogue of the titanium puzzle  Romain Sibille, Paul Scherrer Institut  Approved, 1 days GPS</p>
20131811	<p>Investigation of a hybrid vanadium fluoride with structurally isolated S = 1 kagome layers  Fabrice Bert, Univ. Paris-Sud  Approved, 2 days GPS</p>
20131813	<p>Direct measurements of the magnetic penetration depth of optimally doped (LaSr)<sub>2</sub>CuO<sub>4</sub> in the Meissner state  Markus M. Bendele, Univ. di Roma La Sapienza  Approved, 2 days LEM</p>
20131814	<p>The role of lattice geometry in magnetism of geometrically frustrated antiferromagnets Zn<sub>x</sub>Cu<sub>4-x</sub>(OH)<sub>6</sub>SO<sub>4</sub>  Andrej Zorko, Jozef Stefan Inst.  Approved, 3 days GPS</p>
20131824	<p>The role of lattice geometry in magnetism of geometrically frustrated antiferromagnets Zn<sub>x</sub>Cu<sub>4-x</sub>(OH)<sub>6</sub>SO<sub>4</sub>  Andrej Zorko, Jozef Stefan Inst.  Approved, 2 days LTF</p>
20131817	<p>The investigation of magnetic uniformity in diluted magnetic semiconductors  Xi Luo, University of New South Wales  Approved, 3 days LEM</p>

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20131820	Effect of photon induced oxygen ordering on magnetic properties in superoxygenated $\text{La}_2\text{NiO}_{4+y}$ Markus M. Bendele, Univ. di Roma La Sapienza Approved, 3 days LEM
20131821	The doping dependent isotope effect in $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$ Markus M. Bendele, Univ. di Roma La Sapienza Refused, 0 days GPS
20131822	Possible Interplay of Ferromagnetism and Superconductivity in $\text{Y}_9\text{Co}_7$ Jacob Larsen, Technical Univ. of Denmark Refused, 0 days LTF
20131863	Possible Interplay of Ferromagnetism and Superconductivity in $\text{Y}_9\text{Co}_7$ Jacob Larsen, Technical Univ. of Denmark Refused, 0 days GPS
20131823	Spin-dynamics in strongly correlated, fluorinated single-chain magnets Kasper S Pedersen, Univ. of Copenhagen Approved, 3 days Dolly
20131825	Interplay between structure and magnetism in $\text{Ba}_{(3-x)}\text{Sr}_x\text{Cr}_2\text{O}_8$ probed with muon spin rotation. Henrik Grundmann, Univ. Zuerich Refused, 0 days GPS
20131826	Tuning of Magnetic Correlations in Iridate Pyrochlores Sarah R Dunsiger, Techn. Univ. Muenchen Approved, 4 days LEM
20131828	Anisotropic Penetration Depth Measurement of LSCO with LEM Amit Keren, The Israel Inst. of Technology - Technion Approved, 2 days LEM



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20131831	Neel Order in Doped Quasi-One-Dimensional Antiferromagnet Gediminas Simutis, ETH Zuerich Approved, 3 days LTF
20131832	Magnetic-Field-Induced Transition and Criticalities in Quantum Spin Ice Yb <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> Yukio Yasui, Meiji University Approved, 4 days LTF
20131833	Magnetic relaxation processes in two-dimensional systems with controlled positional disorder Luca Anghinolfi, Paul Scherrer Institut Approved, 4 days LEM
20131835	$\mu$ SR Study on Magnetic Fluctuations in a S = 3/2 Spinel Oxide LiInCr <sub>4</sub> O <sub>8</sub> with a Breathing Pyrochlore Lattice Amir-Abbas Haghighirad, Oxford Univ. Approved, 2 days Dolly
20131842	$\mu$ SR Study on Magnetic Fluctuations in a S = 3/2 Spinel Oxide LiInCr <sub>4</sub> O <sub>8</sub> with a Breathing Pyrochlore Lattice Amir-Abbas Haghighirad, Oxford Univ. Refused, 0 days GPS
20131836	Evolution of the Neel temperature with doping in Y substituted Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O thin-films Amit Kanigel, The Israel Inst. of Technology - Technion Approved, 4 days LEM
20131837	Exploring the phase formed in the quantum critical metal Sr <sub>3</sub> Ru <sub>2</sub> O <sub>7</sub> Stephen J Blundell, Univ. of Oxford Approved, 4 days HAL-9500
20131840	Evolution of two-gap behavior of the superconductor Ba <sub>0.6</sub> Rb <sub>0.4</sub> Fe <sub>2</sub> As <sub>2</sub> with hydrostatic pressure Zurab Guguchia, Univ. Zuerich Approved, 6 days GPD

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20131848	Evolution of two-gap behavior of the superconductor Ba <sub>0.6</sub> Rb <sub>0.4</sub> Fe <sub>2</sub> As <sub>2</sub> with hydrostatic pressure Zurab Guguchia, Univ. Zuerich Approved, 1 days Dolly
20131841	Competition of ferro- and antiferromagnetism in copper containing members of the 111 pnictide family Sirko Kamusella, Technische Univ. Dresden Refused, 0 days GPS
20131843	Checking for magneto-electronic phase separation in a correlated TM oxide system with colossal exchange anisotropy Jorge Lago, The Univ. of The Basque Country Approved, 2 days Dolly
20131846	Probing spin-polarized superconductivity in Au/Co/Cu/Ho/Nb thin film heterostructures Angelo Di Bernardo, Univ. of Cambridge Approved, 4 days LEM
20131849	Spin ice states in pyrochlore germanates Stephen J Blundell, Univ. of Oxford Approved, 3 days GPS
20131853	Spin ice states in pyrochlore germanates Stephen J Blundell, Univ. of Oxford Approved, 3 days LTF
20131850	Investigation of the Spin Dynamics in the S = 1/2 Spin Liquid Candidate Lu <sub>2</sub> Mo <sub>2</sub> O <sub>5</sub> N <sub>2</sub> Lucy Clark, McMaster Univ. Approved, 2 days LTF
20131856	Spin dynamics in Beta-diketone Alan J Drew, Queen Mary and Westfield College Refused, 0 days GPS

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20131858	Magnetic polarons and muon-induced effects in EuO and EuS Stephen J Blundell, Univ. of Oxford Refused, 0 days HAL-9500
20131860	Probing the [FeFe]-hydrogenase subsite using $\mu$ SR Jamie N. T. Peck, Rutherford Appleton Lab. Approved, 4 days GPD
20131861	High Transverse Field Muon Spin Rotation Study of the Field Induced Magnetism in Superconducting O/Sr co-doped La(2-x)Sr(x)CuO(4+y) Jacob Larsen, Technical Univ. of Denmark Approved, 4 days HAL-9500
20131862	Investigation of a Superconducting Thin Film Battery Material Martin Mansson, EPF Lausanne Approved, 4 days LEM
20131864	Magnetic Phase Diagram of Hyperhoneycomb Beta-Li <sub>2</sub> IrO <sub>3</sub> Giorgi Ghambashidze, Max-Planck-Inst. Stuttgart Approved, 1 days GPS
20131865	Search for a magnetic field induced transition in the inhomogeneous ferromagnetic state of the quantum spin ice Yb <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> Jorge Lago, The Univ. of The Basque Country Refused, 0 days LTF
20131866	Investigate the superconducting ground state of the Ba-doped ammonia intercalated FeSe superconductor Takashi Kambe, Okayama Univ. Approved, 3 days GPS
20131867	Novel excitonic magnetism in Barium iridates with strong spin orbit coupling Hans-Henning Klauss, Technische Univ. Dresden Approved, 1 days GPS

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20131869	Novel excitonic magnetism in Barium iridates with strong spin orbit coupling Hans-Henning Klauss, Technische Univ. Dresden Refused, 0 days Dolly
20131868	Revisit the magnetic ordering of body centered tetragonal T'-Pr <sub>2</sub> CuO <sub>4</sub> Hubertus Luetkens, Paul Scherrer Institut Approved, 3 days Dolly
20131872	Interaction of Mu- in n-type GaAs with photo-generated carriers Thomas Prokscha, Paul Scherrer Institut Approved, 3 days LEM
20131875	Ferromagnetic quantum criticality in FeGa <sub>3</sub> -xGex Hans-Henning Klauss, Technische Univ. Dresden Approved, 2 days GPS

### Continuations

20131713	Suppression of magnetic order in iridate compounds Michael J Graf, Boston College Approved, 5 days GPS
20131810	Suppression of magnetic order in iridate compounds Michael J Graf, Boston College Approved, 5 days LTF
20131716	Coexistence of Magnetism and Superconductivity in Ba <sub>1-x</sub> K <sub>x</sub> (Fe <sub>1-y</sub> Co <sub>y</sub> ) <sub>2</sub> As <sub>2</sub> single crystals Christian Bernhard, Univ. Fribourg Approved, 4 days GPS
20131719	Li diffusion in an epitaxial film; spinel-type electrode materials Jun Sugiyama, Toyota Central R&D Labs., Inc. Approved, 5 days LEM

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20131723	Magnetic and Superconducting Ground State of delta-doped LSCO Superlattices Andreas Suter, Paul Scherrer Institut Approved, 5 days LEM
20131726	Surface Magnetism and Magnetic Penetration Depth in Bulk and Thin Films of the Optimally Doped Cuprate $\text{La}_{1.84}\text{Sr}_{0.16}\text{CuO}_4$ Ludovic Howald, Univ. Zuerich Approved, 4 days LEM
20131738	Magnetic ground state of a dimerized compound, $\text{P2-Na}_{0.5}\text{VO}_2$ Jun Sugiyama, Toyota Central R&D Labs., Inc. Approved, 2 days LTF
20131815	Magnetic ground state of a dimerized compound, $\text{P2-Na}_{0.5}\text{VO}_2$ Jun Sugiyama, Toyota Central R&D Labs., Inc. Refused, 0 days GPS
20131739	Out-of-plane magnetic field profiles in type-I and type-II superconductors in a transverse magnetic field. II. Vladimir Kozhevnikov, Tulsa Community College Refused, 0 days LEM
20131788	Out-of-plane magnetic field profiles in type-I and type-II superconductors in a transverse magnetic field. II. Vladimir Kozhevnikov, Tulsa Community College Refused, 0 days Dolly
20131748	A $\mu$ SR study of single crystals of the superconductors $\text{ReO}_{1-x}\text{F}_x\text{BiS}_2$ (Re = La, Ce, Pr, and Nd). Pabitra Kumar Biswas, Paul Scherrer Institut Refused, 0 days GPS
20131758	Target for Muonium 1S-2S spectroscopy Paolo Crivelli, ETH Zuerich Approved, 5 days LEM
20131760	Role of magnetic impurities in the re-entrant magnetism of $\text{Sm}_{\text{TM}(x)}\text{Fe}_{(1-x)}\text{AsO}_{(1-y)}\text{F}_{(y)}$ [TM = Mn, Ni] Gianrico Lamura, Consiglio Nazionale delle Ricerche/CNR-SPIN Refused, 0 days GPS

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20131761	Role of magnetic impurities in the re-entrant magnetism of $\text{SmTM}(x)\text{Fe}(1-x)\text{AsO}(1-y)\text{F}(y)$ [TM = Mn, Ni] Gianrico Lamura, Consiglio Nazionale delle Ricerche/CNR-SPIN Approved, 3 days Dolly
20131762	Pressure-induced quantum phase transition in a disordered quasi-2D spin-1/2 quantum antiferromagnet Alexandra Mannig, ETH Zuerich Approved, 9 days GPD
20131765	Complex Ferromagnetic State in 4f-localized ferromagnets $\text{CeRu}_2\text{Al}_2\text{B}$ and $\text{PrRu}_2\text{Al}_2\text{B}$ Kwang-Yong Choi, Chung-Ang University Refused, 0 days Dolly
20131769	Muonium study of a CIGS-based p-n junction Helena V Alberto, Univ. of Coimbra Refused, 0 days LEM
20131773	A new phase diagram for magnetic order in $\text{La}(2-x)\text{Sr}(x)\text{CoO}_4$ Tom Lancaster, Univ. of Durham Approved, 3 days GPS
20131780	Field-induced phase transitions in the 2D helimagnet $\text{Ba}_2\text{CuGe}_2\text{O}_7$ Toni Shiroka, ETH Zuerich Refused, 0 days LTF
20131855	Field-induced phase transitions in the 2D helimagnet $\text{Ba}_2\text{CuGe}_2\text{O}_7$ Toni Shiroka, ETH Zuerich Refused, 0 days GPS
20131798	Anion substitution effects on magnetism in a layered perovskite, $\text{Sr}_2\text{NiO}_4$ Jun Sugiyama, Toyota Central R&D Labs., Inc. Approved, 2 days Dolly
20131802	Shallow-to-deep instability of muonium in wide-gap perovskite oxides Takashi U. Ito, Japan Atomic Energy Agency Approved, 3 days GPS

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20131804	Induced spin polarisation in nanocarbon Oscar Cespedes, Univ. of Leeds Approved, 5 days LEM
20131807	Magnetic order and quantum critical behavior in Nb <sub>1-y</sub> Fe <sub>2+y</sub> Daniela Rauch, Techn. Univ. Braunschweig Approved, 3 days GPS
20131809	Magnetic order and quantum critical behavior in Nb <sub>1-y</sub> Fe <sub>2+y</sub> Daniela Rauch, Techn. Univ. Braunschweig Approved, 2 days LTF
20131812	Nature of Magnetism in Magnetically Doped Topological Insulators - From Bulk to Surface Zaher Salman, Paul Scherrer Institut Approved, 5 days LEM
20131819	Search of a dynamical quantum critical state in the pseudo-kagome layered system Cu <sub>3</sub> Bi(SeO <sub>3</sub> ) <sub>2</sub> O <sub>2</sub> Br - part 2: Determination of muon stopping sites Matej Pregelj, Jozef Stefan Inst. Approved, 1 days GPS
20131827	Interplay between charge density wave and superconductivity under pressure in Sr <sub>3</sub> Ir <sub>4</sub> Sn <sub>13</sub> . Pabitra Kumar Biswas, Paul Scherrer Institut Approved, 5 days GPD
20131830	Low-energy $\mu$ SR studies of Current-driven motion of Skyrmions in MnSi Yasutomo J Uemura, Columbia Univ. Approved, 5 days LEM
20131834	Odd-frequency spin-triplet superconductivity in Ferromagnetic- Superconducting Devices Stephen L Lee, Univ. of St. Andrews Approved, 6 days LEM
20131839	New phases with unusual oxidation states Stephen J Blundell, Univ. of Oxford Approved, 2 days GPS

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20131851	Testing the Mauger model prediction of bound magnetic polarons in oxygen deficient EuO Peter J Baker, Rutherford Appleton Lab. Approved, 3 days LEM
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