

# Poster Session Programme

## Poster Session A, Monday, July 2<sup>nd</sup> 2012

**A01**

**E.Moskvin, N.Potapova, V.Dyadkin, C.Dewhurst, S.Siegfried, D.Menzel, S.Grigoriev**, Quantum criticality in  $Mn_{1-x}Fe_xSi$  studied by SAPNS

**A02**

**N. Martin, L.-P. Regnault, S. Klimko, K. Zhernenkov, D. Gorkov, B.P. Toperverg**, Neutron Resonant Spin-Echo techniques using ZETA option on thermal TAS IN22 – Beyond inelastic spectroscopy

**A03**

**T. J Hicksa, A. Muldersa, C. Pappas**, The Magnetic Defect in Antiferromagnetic Gamma Manganese Copper

**A04**

**S.V. Grigoriev, N.M. Potapova, E.V. Moskvin, V.A. Dyadkin, Ch. Dewhurst, S.V. Maleyev**, Evolution of spin structure in MnSi close to  $T_C$  under magnetic field

**A05**

**Fatih Zighem, Frédéric Ott**, Numerical calculation of magnetic form factors of complex shaped nano-particles coupled with micro-magnetic simulations

**A06**

**E.V.Velichko, Yu.O.Chetverikov, L.A.Akselrod, V.N.Zabenkin, V.V.Piyado, A.A.Sumbatyan, W.H.Kraan, S.V.Grigoriev**, The new calibration technique for SESANS-device.

**A07**

**S. Disch, E. Wetterskog, R. P. Hermann, A. Wiedenmann, G. Salazar-Alvarez, L. Bergström, Th. Brückel**, Shape-induced superstructure in concentrated ferrofluids

**A08**

**Chin Shan Lue, L. J. Chang, M. Takeda, C. H. Lee, G. Chern**, Magnetic anisotropy in the interface of  $Fe_3O_4/Mn_3O_4$  superlattices probed by neutron reflectivity

**A09**

**S. M. Amir, M. Gupta, A. Gupta, M. Horisberger and J. Stahn**, Effect of Sn surfactant in Fe/Si multilayers probed by neutron reflectivity

**A10**

**V. Tarnavich, D. Lott, S. Mattauch, S.Grigoriev**, Study of induced chirality in Ho/Y multilayers

**A11**

**R. Maruyama, D. Yamazaki, H. Hayashida, and K. Soyama**, Influence of Si interlayer on diffuse scattering profile of Fe/Ge polarizing supermirror

**A12**

**Christine Klauser, Thierry Bigault, Jérémie Chastagnier, David Jullien, Pascal Mouveau, Alexandr Petoukhov, Natalya Rebrova, Torsten Soldner**, High Precision Depolarization Measurements in Polarizing Supermirrors

**A13**

**P. Schmakat, M. Schulz, V. Hutanu, M. Brando, C. Geibel, M. Deppe, C. Pfleiderer, P. Böni**, Magnetic anisotropy of the Kondo lattice system  $\text{CePd}_{1-x}\text{Rh}_x$

**A14**

**Ikram DHOUIB, Zakaria ELAOU, Philippe GUIONNEAU, Stanislav PECHEV, Corine Mathonière and Tahar MHIRI**, Crystal Structure and magnetic properties of the bis tetrapropylammonium Hexachlorodocuprate(II):  $[\text{N}(\text{C}_3\text{H}_7)_4]_2\text{Cu}_2\text{Cl}_6$

**A15**

**Amy Poole, Bertrand Roessli, Peter Babkevich, Andrew Boothroyd, Jonathon White, Michel Kenzelmann, Tom Fennell, SNP@PSI**: experiments performed with MuPAD at the Paul Scherrer Institut

**A16**

**N. A. Grigoryeva, S. V. Grigoriev, K. S. Napol'skii, A. P. Chumakov, A. A. Eliseev, I. V. Roslyakov, H. Eckerlebe, and A. V. Syromyatnikov**, Polarized SANS study of spatially ordered arrays of interacting nanowires

**A17**

**Thomas Maurer, Fatih Zighem, S. Gautrot, Frédéric Ott, Grégory Chaboussant**, Spatially Ordered Magnetic Nanowires investigated by Polarized SANS

**A18**

**L. J. Chang, S. Onoda, Y. Su, Y. -J. Kao, Y. Yasui**, The transition from magnetic Coulomb phase to Higgs phase in the quantum spin ice  $\text{Yb}_2\text{Ti}_2\text{O}_7$

**A19**

**J. Repper, T. Kellerb, W.W. Schmahl**, High-resolution neutron Larmor diffraction for phase transition studies of  $\text{LaAlO}_3$

**A20**

**Udalov Oleg**, Skew scattering of cold unpolarized neutrons in ferromagnetic crystal

**A21**

**V. Runov, D. Ilyin, M. Runova, A. Radzhabov**, Observation of ferromagnetic correlation caused by 3d admixture in nonmagnetic material by means of small-angle polarized neutron scattering

**A22**

**Felix Groitl, Katharina Rolfs, Diana Quintero-Castro, Klaus Kiefer, Thomas Keller, Klaus Habicht**, Larmor labeling methods: Neutron Resonance Spin Echo spectroscopy beyond standard line width measurements

**A23**

**Matveev V.A., Pleshanov N.K., Syromyatnikov V.G., Bulkin A.P.**, Study of the possibility of using thin Ti films to improve polarizing coatings

**A24**

**Chin Shan Lue, L. J. Chang, M. Takeda, C. H. Lee, G. Chern**, Magnetic anisotropy in the interface of  $\text{Fe}_3\text{O}_4/\text{Mn}_3\text{O}_4$  superlattices probed by neutron reflectivity

**A25**

**S.L. Holm, L. Udby, J. Larsen, N.B. Christensen, S.B. Emery, Y.F. Nie, N.H. Andersen, J.-G. Grivel, Ch. Niedermayer, B.O. Wells, and K. Lefmann**, Field-induced magnetism in super-oxygenated  $(\text{La,Sr})_2\text{CuO}_{4+y}$

**A26**

**Yu.N. Khaydukov R.O. Tsaregorodsev, B. Nagy, L. Bottyán, Yu.V. Nikitenko, V.L. Aksenov**, Waveguide-enhanced polarized neutron reflectometry: a new approach in the study of magnetic proximity effects.

# Poster Session B, Wednesday, July 04<sup>th</sup> 2012

## B01

**Christoph Gösselsberger, Gerald Badurek, Erwin Jericha, Sebastian Nowak**, Wavelength-selected neutron pulses formed by a spatial magnetic neutron spin resonator

## B02

**Alexander GRÜNWALD, A.C. Komarek, S. Giemsa, P. Böni, M. Braden**, KOMPASS – the new three-axes-spectrometer with 3D spherical polarization analysis to-be at FRM-II

## B03

**T. Ino<sup>1</sup>, Y. Arimoto<sup>1</sup>, H. Kira<sup>2</sup>, Y. Sakaguchi<sup>2</sup>, T. Shinohara<sup>3</sup>, K. Sakai<sup>3</sup>, T. Oku<sup>3</sup>, K. Kakurai<sup>3</sup>, K. Ohoyama<sup>4</sup>**, Precise magnetic field mapping for the <sup>3</sup>He neutron spin filter

## B04

**K. Ohoyama, T. Yokoo, S. Itoh, J. Suzuki, K. Iwasa, K. Tomiyasu, M. Matsuura, H. Hiraka, M. Fujita, H. Kimura, H. Kira, Y. Sakaguchi, T. Ino, T. Oku, Y. Arimoto, T. Sato, T.J. Sato, K. Kaneko, J. Suzuki, H.M. Shimizu, T. Arima, M. Takeda, M. Hino, S. Muto, H. Nojiri**, Polarisation Analysis Neutron Chopper Spectrometer, POLANO, at J-PARC

## B05

**K. Ohoyama, K. Tsutsumi, T. Ino, H. Hiraka, Y. Yamaguchi, H. Kira, T. Oku, Y. Sakaguchi, Y. Arimoto, W. Zhang, H. Kimura, K. Iwasa, M. Takeda, J. Suzuki, K. Yamada, K. Kakurai**, Development of a Polarised Neutron Diffraction System with a <sup>3</sup>He Spin Filter on a Powder Diffractometer in JRR-3

## B06

**Georg Brandl, Tobias Weber, Wolfgang Häußler, Robert Georgii, Peter Böni**, Monte-Carlo simulations for the optimization of a MIEZE spin-echo instrument at the ESS

## B07

**J.G.Donaldson, S.Boag, P.Manuel, J.R.Stewart, J.W.Taylor**, Initial Results of Uniaxial Polarisation Analysis on the WISH Diffractometer

## B09

**P. Baroni, L. Noirez, G. Exil, A. Laverdunt**, Using Light to see Neutrons: a New 2D-Detector with High Resolution at the Lab. Léon Brillouin

## B10

**T. Yokoo, K. Ohoyama, S. Itoh, S. Ishimoto, H. Kira, Y. Sakaguchi, T. Ino, T. Oku, Y. Arimoto, M. Takeda, M. Hino, S. Muto**, Neutron Polarizations in POLANO Project at J-PARC

## B11

**Wai Tung Lee, Frank Klose, David Jullien, Pierre Courtois, Ken Andersen**, Up-Coming Polarised Neutron Capabilities on ANSTO Instruments Using Polarised <sup>3</sup>He Neutron Spin Filters (94)

**B12**

**H.Kira, Y.Sakaguchi, J. Suzuki, K.Sakai, T.Shinohara, T.Oku, M.Nakamura, M.Arai, Y.Endo, K.Kakurai, Y.Arimoto, T.Ino, H. Hiraka, K.Ohoyama, H.M. Shimizu, L.J. Chang,** Magnetic shield design of in-situ SEOP polarized  $^3\text{He}$  neutron spin filter system

**B13**

**W.C. Chen, Q. Ye, and T.R. Gentile,**  $^3\text{He}$  Polarization over 80% in Large Spin Filters Polarized by Hybrid Spin-Exchange Optical Pumping

**B14**

**W.C. Chen, S.M. Watson, K.L. Krycka, J.A. Borchers, and R. W. Erwin,** Characterization of Spatial Uniformity of Neutron Polarization for a Polarized  $^3\text{He}$  Based SANS Spin Analyzer

**B15**

**S.Boag, D.Jullien, J.Donaldson, S.Marty, P.Mouveau, J.R.Stewart, J. Taylor,** First results from Flynn: A new polarized  $^3\text{He}$  Filling Station

**B16**

**P. Courtois, D. Jullien, E. Lelièvre-Berna, P. Mouveau, A. Petukhov,** A new-generation polarised  $^3\text{He}$  filling station developed at ILL

**B17**

**Kaoru Taketani,** Spin flip chopper using Landau-Zener-Stückelberg Interferometry

**B18**

**S.R.Parnell, H.Kaiser, F.Li, T.Wang, D.V.Baxter, W.A.Hamilton and R.Pynn,** Design and performance of a cryo-flipper using a YBCO film

**B19**

**Raul Victor Erhana, Sergey Manoshin and Alexander Belushkin,** Simulations of a neutron spin echo spectrometers and its components using pulsed magnetic fields by VITESS software package

**B20**

**T. Bigault, D. Jullien, B. Farago, P. Falus,** Performance of IN15 polarizing and analysing supermirror devices

**B21**

**Syromyatnikov V.G., Ulyanov V.A., Lauter V., Bulkin A.P., Pusenkov V.M.,** Wide-aperture fan neutron supermirror analyzer of polarization for Magnetism Reflectometer

**B22**

**Syromyatnikov V.G., Schebetov A.F., Pusenkov V.M., Pleshanov N.K., Serebrov A.P., Bulkin A.P.,** Neutron-optical system of the channel GEK- 4-4' of reactor PIK

**B23**

**H. Hayashida, M. Takeda, D. Yamazaki, R. Maruyama, K. Soyama, M. Kubota, T. Mizusawa, Y. Sakaguchi and N. Yoshida,** Design study of neutron spin flippers for a new neutron reflectometer at J-PARC

**B24**

**Zahir SALHI, Earl BABCOCK, Alexander IOFFE,** Design study of magnetic environments for XYZ polarization analysis using  $^3\text{He}$  for the new thermal time of flight spectrometer TOPAS

**B25**

**Juan Rodriguez-Carvajal, Oksana Zaharko,** Solving and Refining Magnetic Structures by Combined Polarimetry and Integrated Intensity data

**B26**

**Klimko Sergey, Longeville Stephane, Malikova Natalie,** Development RF-flippers for large angle NRSE