

International Conference on Polarised Neutrons for Condensed Matter Investigations (PNCMI 2016)

Journal of Physics: Conference Series Volume 862

Munich, Germany
4-7 July 2016

ISBN: 978-1-5108-4295-3
ISSN: 1742-6588

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2016) by the Institute of Physics
All rights reserved. The material featured in this book is subject to
IOP copyright protection, unless otherwise indicated.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact the Institute of Physics
at the address below.

Institute of Physics
Dirac House, Temple Back
Bristol BS1 6BE UK

Phone: 44 1 17 929 7481
Fax: 44 1 17 920 0979

techtracking@iop.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

DISCUSSION ON DATA CORRECTION FOR POLARIZATION ANALYSIS WITH A ³HE SPIN FILTER ANALYZER	1
<i>Earl Babcock, Zahir Salhi, Emmanuel Kentzinger, Stefan Mattauch, Alexander Ioffe</i>	
RECENT ON-BEAM TESTS OF WIDE ANGLE NEUTRON POLARIZATION ANALYSIS WITH A ³HE SPIN FILTER: MAGIC PASTIS ON V20 AT HZB	16
<i>E Babcock, Z Salhi, R Gainov, R Woracek, H Soltner, P Pistel, F Beule, K Bussmann, A Heynen, H Kammerling, F Suxdorf, M Strobl, M Russina, J Voigt, A Ioffe</i>	
EXPECTED PERFORMANCE OF TIME-GRADIENT MAGNETIC FIELD SESANS DIFFRACTOMETER AT PULSED REACTOR IBR-2	25
<i>V Bodnarchuk, V Sadilov, S Manoshin, R V Erhan, A Ioffe</i>	
SPIN-ANALYZED SANS FOR SOFT MATTER APPLICATIONS	32
<i>W.C. Chen, J.G. Barker, R. Jones, K.L. Krycka, S.M. Watson, C. Gagnon, T. Perevozchivoka, P. Butler, T.R. Gentile</i>	
PASTIS2 AND CROCODILE: XYZ-WIDE ANGLE POLARISATION ANALYSIS FOR THERMAL NEUTRONS	45
<i>Mechthild Enderle, David Jullien, Alexander Petoukhov, Pascal Mouveau, Ken Andersen, Pierre Courtois</i>	
MAGNETIC STRUCTURE OF THE NONCENTROSYMMETRIC HEAVY-FERMION SUPERCONDUCTOR CEPT₃SI	53
<i>B Fak, M Enderle, G Lapertot</i>	
EFFICIENT POLARIZATION ANALYSIS FOR FOCUSING NEUTRON INSTRUMENTS	57
<i>Jochen Stahn, Artur Glavic</i>	
MAGNETIC FIELD IMAGING OF A MODEL ELECTRIC MOTOR USING POLARIZED PULSED NEUTRONS AT J-PARC/MLF	66
<i>K Hiroi, T Shinohara, H Hayashida, J D Parker, K Oikawa, M Harada, Y Su, T Kai</i>	
INSTRUMENT DEVELOPMENTS AND RECENT SCIENTIFIC HIGHLIGHTS AT THE J-NSE	75
<i>Oxana Ivanova, Stefano Pasini, Michael Monkenbusch, Olaf Holderer</i>	
SPIN-ECHO SMALL-ANGLE NEUTRON SCATTERING STUDY OF THE STRUCTURE ORGANIZATION OF THE CHROMATIN IN BIOLOGICAL CELL	81
<i>E G Iashina, W G Bouwman, C P Duif, M V Filatov, S V Grigoriev</i>	
DEVELOPMENT OF A POLARIZED ³HE NEUTRON SPIN FILTER FOR POLANO AT J-PARC	88
<i>T Ino, M Ohkawara, K Ohoyama, T Yokoo, S Itoh, Y Nambu, M Fujita, H Kira, H Hayashida, K Hiroi, K Sakai, T Oku, K Kakurai</i>	
THERMAL STABILIZATION OF NEUTRON LARMOR DIFFRACTOMETERS	99
<i>T Keller, F Tralmer</i>	
MAGNETIC STATE OF NB(L-7NM)/CU₃₀NL₇₀ (6NM) SUPERLATTICES REVEALED BY POLARIZED NEUTRON REFLECTOMETRY AND SQUID MAGNETOMETRY	104
<i>Yu. Khaydukov, R. Morari, D. Lenk, V. Zdravkov, D.G. Merkel, B.-K. Seidlhofer, C. Muller, H.-A. Krug von Nidda, T. Keller, R. Steitz, A. Sidorenko, S. Horn, R. Tidecks, B. Keimer</i>	
THE EFFECT OF AMPHIPHILIC POLYMERS WITH A CONTINUOUS AMPHIPHILICITY PROFILE ON THE MEMBRANE PROPERTIES IN A BICONTINUOUS MICROEMULSIONS STUDIED BY NEUTRON SCATTERING	112
<i>Helge F.M. Klemmer, Henrich Frielinghaus, Jurgen Allgaier, Michael Ohl, Olaf Holderer</i>	
A FRAMEWORK FOR MODELING POLARIZED NEUTRON SCATTERING FROM NMR SPIN-MODULATED SYSTEMS	118
<i>M Kotlarchyk, G M Thurston</i>	
NEUTRON MULTIMONOCROMATOR-BIPOLARIZER BASED ON MAGNETIC MULTILAYER FE/CO AND NEW SCHEME FOR THE TOTAL NEUTRON POLARIZATION ANALYSIS	128
<i>V.G. Syromyatnikov, Kyaw Zaw Lin</i>	
ACCESSIBLE LENGTH SCALE OF THE IN-PLANE STRUCTURE IN POLARIZED NEUTRON OFF-SPECULAR AND GRAZING-INCIDENCE SMALL-ANGLE SCATTERING MEASUREMENTS	144
<i>R Maruyama, T Bigault, A R Wildes, C D Dewhurst, T Saerbeck, D Honecker, D Yamazaki, K Soyama, P Courtois</i>	
SIMULATION AND OPTIMIZATION OF A NEW FOCUSING POLARIZING BENDER FOR THE DIFFUSE NEUTRONS SCATTERING SPECTROMETER DNS AT MLZ	150
<i>K Nemkovski, A Ioffe, Y Su, E Babcock, W Schweika, Th Bruckel</i>	

POLARISATION ANALYSIS ON THE LET TIME-OF-FLIGHT SPECTROMETER	166
<i>G J Nilsen, J Kořata, M Devonport, P Galsworthy, R I Bewley, D J Vonshen, R Dalglish, J R Stewart</i>	
OPTIMIZATION OF A POLARIZER DEVICE FOR SANS-2 INSTRUMENT AT THE PIK REACTOR	182
<i>K A Pavlov, P I Konik, V G Syromyatnikov, S V Grigoriev, E V Moskvina</i>	
NEUTRON MULTILAYER-BACKED FLIPPER: EXPERIMENT, PROSPECTS	188
<i>N K Pleshanov</i>	
AN ULTRA-COMPACT IN-SITU ³HE POLARIZER FOR HIGH Q-RANGE SANS: ON-BEAM TEST AND FUTURE UPGRADES	197
<i>Zahir Salhi, Earl Babcock, Kendal Bingöl, Denis Starostin, Patrick Pistel, Nils Lumma, Aurel Radulescu, Alexander Ioffe</i>	
DATA PROCESSING WORKFLOW FOR TIME OF FLIGHT POLARIZED NEUTRONS INELASTIC MEASUREMENTS	206
<i>Andrei T Savici, Igor A Zaliznyak, V Ovidiu Garlea, Barry Winn</i>	
NEUTRON DEPOLARIZATION MEASUREMENTS OF MAGNETITE IN CHITON TEETH	214
<i>M Seifert, M Schulz, G Benka, C Pfeleiderer, S Gilder</i>	
POLARIZATION ANALYSIS FOR MAGNETIC FIELD IMAGING AT RADEN IN J-PARC/MLF	223
<i>Takenao Shinohara, Kosuke Hiroi, Yuhua Su, Tetsuya Kai, Takeshi Nakatani, Kenichi Oikawa, Mariko Segawa, Hirotohi Hayashida, Joseph D. Parker, Yoshihiro Matsumoto, Shuoyuan Zhang, Yoshiaki Kiyonagi</i>	
ON THE ANALYSIS OF TIME-OF-FLIGHT SPIN-ECHO MODULATED DARK-FIELD IMAGING DATA	234
<i>Morten Sales, Jeroen Plomp, Wim G. Bouwman, Anton S. Tremsin, Klaus Habicht, Markus Strobl</i>	
MAGNETIC PROPERTIES AND SPIN STRUCTURE OF MNO SINGLE CRYSTAL AND POWDER	244
<i>X Sun, E Feng, Y Su, K Nemkovski, O Petravic, T Brückel</i>	
NEW COMPACT NEUTRON SUPERMIRROR TRANSMISSION POLARIZER	252
<i>V G Syromyatnikov, V M Pusev</i>	
NEUTRON LARMOR DIFFRACTION WITH DOUBLE AND SINGLE PRECESSION ARM	265
<i>A.A. van Well, M.T. Rekveldt</i>	
POLARIZED NEUTRON SCATTERING ON HYSPEC: THE HYBRID SPECTROMETER AT SNS	276
<i>Igor A Zaliznyak, Andrei T. Savici, V. Ovidiu Garlea, Barry Winn, Uwe Filges, John Schneeloch, John M. Tranquada, Genda Gu, Aifeng Wang, Cedimir Petrovic</i>	
NEW POLDI – PROJECT OF REINCARNATION OF A POLARIZED NEUTRON DIFFRACTOMETER AT THE REACTOR PIK	291
<i>I Zobkalo, S Gavrilov, V Matveev, J Fenske</i>	
Author Index	