

2023

1. Baggemann, J.; E. Mauerhofer, U. Rücker, P. Zakalek, T. Brückel, T. Gutberlet, R. Achten, Y. Bessler, T. Gutberlet, R. Hanslik, H. Kleines, J. Li, K. Lieutenant, F. Löchte, I. Pechenizkiy, E. Vezhlev, J. Voigt, J. Wolters
Technical Design Report HBS; Volume 2 – Target Stations and Moderators
Schriften des Forschungszentrum; Allgemeines / General (2023), **9-02**; ISBN 978-3-95806-710-3
2. Brückel, T.; Förster, S.; Friese, K.; Kruteva, M.; Zobel, M.; Zorn, R. (Eds.)
Laboratory Course Neutron Scattering: Experimental Manuals
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **271** (2023)
3. Brückel, T.; Gutberlet, T. (Eds.)
Opportunities for Research with Neutrons at the Next Generation Facility HBS: Overview of the High Brilliance neutron Source (HBS) Technical Design Report
Schriften des Forschungszentrums Jülich; Allgemeines / General (2023) **9 - Overview**; ISBN 978-3-95806-713-4
4. Gebel, R.; A. Lehrach, H. Podlech, T. Brückel, T. Gutberlet, J. Baggemann, M. Droba, O. Felden, T. Gutberlet, H. Kleines, K. Kümpel, S. Lamprecht, E. Mauerhofer, O. Meusel, I. Pechenitzkiy, N. Petry, S. Reimann, U. Rücker, M. Schwarz, P. Zakalek, C. Zhang
Technical Design Report HBS; Volume 1 – Accelerator
Schriften des Forschungszentrums; Allgemeines / General (2023) **9-01**; ISBN 978-3-95806-709-7
5. Gutberlet (Vol. Eds.), T.; T. Brückel, T. Gutberlet (Ser. Eds.) T. Claudio Weber, F. Galeazzi, D. Haar, N. Krause, B. Kreft, O. Krieger, E. Mauerhofer, J. Ottersbach, M. Pauli, A. Schreyer, J. Womersley
Technical Design Report HBS; Volume 4 – Infrastructure and Sustainability
Schriften des Forschungszentrum; Allgemeines / General (2023) **9-04**; ISBN 978-3-95806-712-7
6. Lieutenant, K.; J. Voigt, T. Brückel, T. Gutberlet, R. Bewley, J. Fenske, M. Feyngenson, C. Franz, H. Frielinghaus, M. Ganeva, A. Glavic, A. Houben, S. Jaksch, N. Kardjilov, G. Kemmerling, H. Kleines, I. Krasnov, Z. Ma, S. Mattauch, E. Mauerhofer, Y. Meinerzhagen, S. Pasini, U. Rücker, K. Schmalz, N. Schmidt, T.E. Schrader, W. Schweika, M. Strobl, E. Vezhlev, N. Violini, R. Zorn
Technical Design Report HBS; Volume 3 – Instrumentation
Schriften des Forschungszentrums; Allgemeines / General (2023) **9-03**; ISBN 978-3-95806-711-0

2022

7. Baggemann, J.; P. Zakalek, Q. Ding, E. Mauerhofer, U. Rücker, J. Li, Th. Loewenhoff, M. Wirtz, G. Pintsuk, J. Wolters, Y. Bessler, T. Gutberlet, T. Brückel
HBS High Power Density Neutron Target - Design and Experimental Tests
Abstracts UCANS9 Online Conference (2022), 60
8. Brückel, T.
Applications of Neutron Scattering - an Overview
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien 255 (2022), 15.1 – 15.41
9. Brückel, T.
Elastic scattering
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien 255 (2022), 2.1 – 2.18
10. Brückel, T.
Introduction: Neutron Scattering in Contemporary Research
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien 255 (2022), 1.1 - 1.16
11. Brückel, T.; Förster, S.; Kruteva, M.; Zobel, M.; Zorn, R. (Eds.)
Laboratory Course Neutron Scattering: Lectures
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien 255 (2022)
12. Brückel, T.
Towards a Network of Accelerator-based Facilities in Europe
Abstracts UCANS9 Online Conference (2022), 14
13. Cao, L. et al.
Migration kinetics of oxygen-ions in LaSrMnO3-delta thin films during topotactic phase transitions
MLZ Annual Report 2021 (2022), 34
14. Ding, Q.; J. Wolters, J. Baggemann, U. Rücker, P. Zakalek, J. Li, Y. Beßler, T. Gutberlet, T. Brückel, G. Natour
Optimization of a target with microchannel cooling using advanced simulation technologies
Abstracts UCANS9 Online Conference (2022), 55
15. Gutberlet, T.; U. Rücker, E. Mauerhofer, P. Zakalek, J. Voigt, J. Baggemann, J. Li, K. Lieutenant, A. Schwab, Q. Ding, Z. Ma, S. Eisenhut, R. Hanslik, Y. Bessler, F. Löchte, M. Rimmler, O. Felden, A. Lehrach, R. Gebel, O. Meusel, H. Podlech, W. Barth, T. Brückel
The Jülich HBS Project for accelerator based neutron sources
Abstracts UCANS9 Online Conference (2022), 62
16. Köhler, T. et al.
Mechanism of magnetization reduction in iron oxide nanoparticles
MLZ Annual Report 2021 (2022), 64
17. Li, J.; Mathias Strothmann, Paul Zakalek, Johannes Baggemann, Thomas Gutberlet, Thomas Brückel
Monte Carlo simulation of a mesitylene based cold moderator system for accelerator-driven compact neutron sources
Abstracts UCANS9 Online Conference (2022), 73

18. Rucker, U.; P. Zakalek, J. Li, J. Voigt, D. Shabani, S. Böhm, E. Mauerhofer, T. Gutberlet, Th. Brückel
Optimized thermal moderators for Compact Accelerator-driven Neutron Sources
Abstracts UCANS9 Online Conference (2022), 76
19. Schwab, A.; Eisenhut, S.; Beßler, Y.; Baggemann, J.; Li, J.; Gutberlet, T.; Rucker, U.; Zakalek, P.; Brückel, T.; Natour, G.
Cold moderators for the High Brilliance Neutron Source
Abstracts UCANS9 Online Conference (2022), 72
20. Zakalek, P.; Johannes Baggemann, Jingjing Li, Ulrich Rucker, Jörg Voigt, Fynn Löchte, Romuald Hanslik, Yannick Bessler, Richard Achten, Bernd Ottmann, Michael Schmitt, Eric Mauerhofer, Klaus Lieutenant, Thomas Gutberlet, Thomas Brückel
A flexible target station for Hi-CANS
Abstracts UCANS9 Online Conference (2022), 20
21. Zhang, K. et al.
Soliton-mediated magnetic reversal in an all-oxide-based synthetic antiferromagnetic superlattice
MLZ Annual Report 2021 (2022), 48

2021

22. Bednarski-Meinke, C.; Schöffmann, P.; Stellhorn, A.; Bhatnagar-Schöffmann, T.; Kentzinger, E.; Pütter, S.; Gossen, F.; Perßon, J.; Brückel, T.
Research and Teaching Oxide MBE System at JCNS-2 Forschungszentrum Jülich
Abstract Book "IOP Magnetism 2021" (2021), 72 – 73
23. Biniskos, N.; F.J. dos Santos; S. Raymond; K. Schmalzl; M. dos Santos Dias; S. Blügel; S.Lounis; T. Brückel
Investigating the spin excitation spectrum of Mn₅Si₃
Abstracts "13th international Polarized Neutrons for Condensed-Matter Investigations, PNCMI" (2021), 20
24. Grzechnik, A.; Meven, M.; Friese, K.
Neutron and x-ray single-crystal diffraction in diamond anvil cells
Joint Annual Report 2020 of the MLZ and FRM II (2021), 62
25. Nandakumaran, N.; Feyngenson, M.; Fanatechi, E.; Pineder, F.; Feoktystov, A.; Brückel, T.
Investigating self-assembly of Au-Fe₃O₄ dumbbell nanoparticles using advanced scattering techniques
Abstracts "725. WE-Heraeus-Seminar: Magnetic Small Angle Neutron Scattering – from Nanoscale Magnetism to Long-Range Magnetic Structures" (2021), 49
26. Pütter, S.; Schöffmann, P.; Schubert, J.; Zander, W.; Barthel, J.; Zakalek, P.; Waschke, M.; Heller, R.; Brückel, T.
Tuning the Co/Sr stoichiometry in SrCoO_{2.5} by RHEED assisted MBE growth
Joint Annual Report 2020 of the MLZ and FRM II (2021), 41
27. Rai, V.; Jana, S.; Nandi, S.; Perßon, J.; Meven, M.; Dutta, R.; Brückel, T.
Chiral anomaly and anomalous Hall effect in Hexagonal-Mn₃+δGe
Abstract Book "IOP Magnetism 2021" (2021), 56 – 57
28. Rai, V.; Nandi, S.; Brückel, T.; Jana, S.; Perßon, J.
Chiral anomaly and electronic transition in Hexagonal Mn₃Ge
in: Conf. Proc. "Int. Conference in Strongly Correlated Electron systems", SCES 2020/21 (2021), Vol. 1, 140782
29. Rai, V.; Subhadip Jana; Shibabrata Nandi; Anne Stunault; Jörg Perßon; Thomas Brückel
Polarized neutron diffraction of Hexagonal-(Mn_{0.78}Fe_{0.22})₃Ge
Abstracts "13th international Polarized Neutrons for Condensed-Matter Investigations, PNCMI" (2021), 35
30. Stellhorn, A.; Kentzinger, E.; Sarkar, A.; Pipich, V.; Krycka, K.; Schöffmann, P.; Bhatnagar, T.; Brückel, T.
Interplay of proximity effects in Superconductor/Ferromagnet heterostructures
Abstracts "725. WE-Heraeus-Seminar: Magnetic Small Angle Neutron Scattering – from Nanoscale Magnetism to Long-Range Magnetic Structures" (2021), 55
31. Stellhorn, A.; KENTZINGER, E.; SARKAR, A.; PIPICH, V.; KRYCKA, K.; SCHÖFFMANN, P.; BHATNAGAR, T.; BRÜCKEL, T.
Inverse proximity effects in superconductor/ferromagnet heterostructures: a study by GISANS with polarization analysis
Abstracts "13th international Polarized Neutrons for Condensed-Matter Investigations, PNCMI" (2021), 36
32. Voigt, J.; Zakalek, P.; Rucker, U.; Li, J.; Ma, Z.; Lieutenant, K.; Gutberlet, T.; Brückel, T.
Source requirements for spectrometers at low energy accelerator driven neutron facilities
Abstracts "QENS/WINS 2021" (2021), 96
33. Zhernenkov, K.; Mattauch, S.; Koutsoubas, A.; Pütter, S.; Schöffmann, P.; Syed Mohd, A.; Babcock, E.; Salhi, Z.; Ioffe, A.; Brückel, T.
MARIA – The high-intensity polarized neutron reflectometer of JCNS – overview of current research and developments
Abstracts "13th international Polarized Neutrons for Condensed-Matter Investigations, PNCMI" (2021), 44
34. Zhu, F.; Wang, X.; Meven, M.; Song, J.; Müller, T.; Yi, C.; Ji, W.; Shi, Y.; Ma, J.; Schmalzl, K.; Schmidt, W.; Su, Y.; Brückel, T.
Magnetic structures of Eu and Mn sublattices in EuMnBi₂
Joint Annual Report 2020 of the MLZ and FRM II (2021), 60

2020

35. Eisenhut, S.; Klaus, M.; Baggemann, J.; Rucker, U.; Beßler, Y.; Schwab, A.; Haberstroh, C.; Cronert, T.; Gutberlet, T.; Brückel, T.; Lange, C.
Cryostat for the provision of liquid hydrogen with a variable ortho-para ratio for a low-dimensional cold neutron moderator
EPJ Web of Conferences 231, 04001 (2020) <https://doi.org/10.1051/epjconf/202023104001>
36. Rimmler, M.; Baggemann, J.; Doege, P.; Felden, O.; Mauerhofer, E.; Rucker, U.; Soltner, H.; Tölle, R.; Zakalek, P.; Gebel, R.; Gutberlet, T.; Brückel, T.
Proton Beam Multiplexer Developments for Multi-Target Operation at the High-Brilliance Neutron Source HBS
EPJ Web of Conferences 231, 02002 (2020); <https://doi.org/10.1051/epjconf/202023102002>
37. Zakalek, P.; Doege, P.; Baggemann, J.; Mauerhofer, E.; Brückel, T.
Energy and target material dependence of the neutron yield induced by proton and deuteron bombardment
EPJ Web of Conferences 231, 03006 (2020) <https://doi.org/10.1051/epjconf/202023103006>

38. P. Zakalek, T. Cronert, J. Baggemann, P.-E. Doege, M. Rimmler, J. Voigt, E. Mauerhofer, U. Rücker, T. Gutberlet, Th. Brückel, H. Podlech, O. Meusel, M. Schwarz, J. Li, S. Böhm
HIGH-BRILLIANCE NEUTRON SOURCE PROJECT
14th Int. Conf. on Heavy Ion Accelerator Technology HIAT2018, Lanzhou, China JACoW Publishing; ISBN: 978-3-95450-203-5;
doi:10.18429/JACoW-HIAT2018-WEZAA01

2019

39. Andersen, K.; Brückel, T.; Keller, T.; Petry, W.; Schober, H.
Otto Schärpf (1929 - 2019)
Neutron News **30**, 4 (2019), 14
40. Angst, M.; Brückel, T.; Förster, S.; Friese, K.; Zorn, R. (Eds.)
Scattering! Soft, Functional and Quantum Materials: Lecture Notes of the 50th IFF Spring School 2019
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien 190 (2019)
41. Baggemann, J.; Doege, P.; Zakalek, P.; Rücker, U.; Mauerhofer, E.; Rimmler, M.; Böhm, S.; Li, J.; Cronert, T.; Gutberlet, T.; Brückel, T.
Internally-cooled target design to achieve high power density in a CANS target
Abstract Book "Internat. Meeting Union for Compact Accelerator-driven Neutron Sources", Paris (2019), 16
42. Bhatnagar, T.; Sarkar, A.; Waschke, M.; Kentzinger, E.; Kovacs, A.; Jin, L.; Schöffmann, P.; Faley, M.; Dunin-Borkowski, R.; Brückel, T.
Electric field control of magnetism in heterostructures of oxide perovskites
Abstract Booklet "Conf. Neutrons for Information and Quantum Technologies", 4.-7.06.19 Lenggries (2019), 11
43. Biniskos, N.; Schmalzl, K.; Raymond, S.; Voigt, J.; Friese, K.; Perßon, J.; Brückel, T.
Mechanism of the Magnetocaloric Effect in the Mn_{5-x}FexSi₃ Series
Abstract Booklet "Conf. Neutrons for Information and Quantum Technologies", 4.-7.06.19 Lenggries (2019), 6
44. Bluhm, H.; Brückel, T.; Morgenstern, M.; von Plessen, G.; Stampfer, C. (Eds.)
Electrons in Solids: Mesoscopics, Photonics, Quantum Computing, Correlations, Topology
de Gruyter (2019), ISBN 978-3-11-043831-4
45. Brückel, T.
Correlated electrons in complex transition metal oxides
in: Electrons in Solids: Mesoscopics, Photonics, Quantum Computing, Correlations, Topology; de Gruyter (2019), 205 - 250
46. Brückel, T.; Förster, S.; Roth, G.; Zorn, E. (Eds.)
Laboratory Course Neutron Scattering: Experiment Manuals
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **196** (2019)
47. Brückel, T.; Förster, S.
Scattering - introduction and overview
in: Scattering! Soft, Functional and Quantum Materials: Lecture Notes of the 50th IFF Spring School 2019; Schriften des Forschungszentrums Jülich, Schlüsseltechnologien 190 (2019); A.1.1 - A.1.25
48. Brückel, T.; Gutberlet, T.; Rücker, U.; Zakalek, P.; Mauerhofer, E.; Cronert, T.; Baggemann, J.; Doege, P.; Rimmler, M.; Böhm, S.; Li, J.; Felden, O.; Gebel, R.; Podlech, H.; Meusel, O.
The High Brilliance Neutron Source (HBS) Project
Abstract Book "Internat. Meeting Union for Compact Accelerator-driven Neutron Sources", Paris (2019), 38
49. Brückel, T.; Keller, T.; Petry, W.; Schober, H.
Zum Gedenken an Otto Schärpf
Physik Journal **18**, 10 (2019), 2
50. Cao, L.; Petravic, O.; Zakalek, P.; Weber, A.; Rücker, U.; Schubert, J.; Koutsoumpas, A.; Mattauch, S.; Brückel, T.
Reversible tuning of structural, magnetic and transport properties via oxygen desorption/absorption in epitaxial La_{0.7}Sr_{0.3}MnO_{3-δ} thin films
Abstract Book "4th internal biennial science meeting MLZ", 24.-27.6.19, Seminarhaus Grainau (2019), 24
51. P.-E. Doege, J. Baggemann, P. Zakalek, E. Mauerhofer, U. Rücker, J. Voigt, T. Gutberlet, S. Böhm, J. Li, M. Rimmler, J. Wolters, G. Natour, Th. Brückel
Target Concept for the High Brilliance Neutron Source
Abstract Book "Internat. Meeting Union for Compact Accelerator-driven Neutron Sources", Paris (2019), 15 - 16
52. S. Eisenhut, M. Klaus, J. Baggemann, U. Rücker, Y. Beßler, C. Haberstroh, T. Cronert, T. Gutberlet, T. Brückel, C. Lange
Cryostat for the provision of liquid hydrogen with variable ortho-para-ratio for a low-dimensional cold neutron moderator
Abstract Book "Internat. Meeting Union for Compact Accelerator-driven Neutron Sources", Paris (2019), 27 - 28
53. Köhler, T.; Feoktystov, A.; Petravic, O.; Kentzinger, E.; Ehlert, S.; Bhatnagar, T.; Rücker, U.; Kovacs, A.; Dunin-Borkowski, R.; Brückel, T.
Spin structure of superparamagnetic iron oxide nanoparticles
Abstract Book "4th internal biennial science meeting MLZ", 24.-27.6.19, Seminarhaus Grainau (2019), 30 - 31
54. Ilic, Z.; Mauerhofer, E.; Revay, Z.; Stieghorst, C.; Brückel, T.
Optimization and characterization of the FaNGas facility at MLZ
Abstract Book "4th internal biennial science meeting MLZ", 24.-27.6.19, Seminarhaus Grainau (2019), 54
55. Li, J.; Mauerhofer, E.; Böhm, S.; Rücker, U.; Gutberlet, T.; Brückel, T.
Preliminary radiation shielding design for HBS
Abstract Book "Internat. Meeting Union for Compact Accelerator-driven Neutron Sources", Paris (2019), 57
56. Nandakumaran, N.; Feygensohn, M.; Barnsley, L.; Feoktystov, A.; Brückel, T.
Characterising self-assembly of magnetic nanoparticles
Abstract Book "4th internal biennial science meeting MLZ", 24.-27.6.19, Seminarhaus Grainau (2019), 37 - 38
57. Petravic, O.; Wang, L.; Kentzinger, E.; Rücker, U.; Schubert, J.; Mattauch, S.; Koutsoumpas, A.; Schmitz, M.; Wei, Xian-Kui; Heggen, M.; Leffler, V.; Ehlert, S.; Brückel, T.
Strain and electric-field control of magnetism in iron oxide nanoparticle - BaTiO₃ composites
Abstract Book "4th internal biennial science meeting MLZ", 24.-27.6.19, Seminarhaus Grainau (2019), 49

58. Pütter, S.; Syed Mohd, A.; Mattauch, S.; Brückel, T.
The magnetic moment of polycrystalline and epitaxial Co thin films
Abstract Book "4th internal biennial science meeting MLZ", 24.-27.6.19, Seminarhaus Grainau (2019), 56
59. Qdemat, A.; Kentzinger, E.; Portale, G.; Ganeva, M.; Mattauch, S.; Petravic, O.; Rücker, U.; Brückel, T.
The spin structure of highly ordered arrangements of magnetic nanoparticles
Abstract Book "4th internal biennial science meeting MLZ", 24.-27.6.19, Seminarhaus Grainau (2019), 52
60. Rimpler, M.; Baggemann, J.; Felden, O.; Gebel, R.; Gutberlet, T.; Rücker, U.; Zakalek, P.; Brückel, T.
Proton beam multiplexer developments for multi-target operation at the High Brilliance Source HBS
Abstract Book "Internat. Meeting of the Union for Compact Accelerator-driven Neutron Sources", Paris (2019), 8
61. Rücker, U.; Zakalek, P.; Voigt, J.; Mauerhofer, E.; Böhm, S.; Li, J.; Cronert, T.; Gutberlet, T.; Brückel, T.
Instrumentation for small and large CANS
Abstract Book "Internat. Meeting Union for Compact Accelerator-driven Neutron Sources", Paris (2019), 40
62. Sarkar, A.; Brückel, T.
Growth and characterization of magnetite based artificial multiferroic heterostructure
Abstract Book "4th internal biennial science meeting MLZ", 24.-27.6.19, Seminarhaus Grainau (2019), 34
63. Sauerwein, W.; Hey-Hawkins, E.; Matsumura, A.; Beck-Sickinger, A.; Gutberlet, T.; Itami, J.; Igawa, K.; Brückel, T.
Boron Neutron Capture Therapy (BNCT): A rising hospital-based radiation modality on demand for a broad interdisciplinary collaboration to be implemented in Germany
Abstracts 25. Jahrestagung der Deutschen Gesellschaft für Radioonkologie Münster (13.-16.06.19), MCC, Volume 195, Supplement 1, S80
64. Schöffmann, P.; Pütter, S.; Schubert, J.; Palmen, K.; Brückel, T.
Fabrication and characterization of SrCoO_{3-δ} thin films
Abstract Booklet "Conf. Neutrons for Information and Quantum Technologies", 4.-7.06.19 Lenggries (2019), 19
65. Su, Y.; Müller, T.; Pecanha-Antonio, V.; Wang, X.; Zhu, F.; Song, J.; Feng, E.; Nemkovskiy, K.; Brückel, T.
DNS: a versatile polarized neutron instrument at the forefront of quantum materials research
Abstract Booklet "Conf. Neutrons for Information and Quantum Technologies", 4.-7.06.19 Lenggries (2019), 21
66. Su, Y., Wang, X., Zhu, F.; Song, J.; Pecanha Antonio, V.; Feng, E.; Müller, T.; Brückel, T.
Quests for fractionalized excitations in frustrated quantum magnets
Abstract Book "4th internal biennial science meeting MLZ", 24.-27.6.19, Seminarhaus Grainau (2019), 38
67. Wang, X.; Zhu, F.; Song, J.; Su, Y.; Brückel, T.
Single crystal growth and neutron diffraction study of non-collinear antiferromagnets Mn₃Sn
Abstract Book "4th internal biennial science meeting MLZ", 24.-27.6.19, Seminarhaus Grainau (2019), 46
68. Zakalek, P.; Böhm, S.; Li, J.; Rücker, U.; Voigt, J.; Mauerhofer, E.; Gutberlet, T.; Brückel, T.
Tuning of target / moderator / reflector unit for optimized instrumentation at compact accelerator driven neutron sources
Abstract Book "Internat. Meeting Union for Compact Accelerator-driven Neutron Sources", Paris (2019), 18 – 19

2018

69. Ait Haddouch, M.; Voigt, J.; Violini, N.; Friese, K.; Perßon, J.; Brückel, T.
Magnetic properties and lattice dynamics of Mn₃Fe₂Si₃ single crystal
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 155
70. Bhatnagar, T.; Kentzinger, E.; Sarkar, A.; Waschk, M.; Kovacs, A.; Jin, L.; Dunin-Borkowski, R.; Brückel, T.
Voltage control of magnetism in oxide heterostructures: Neutron & X-ray and electron microscopy investigation
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 210
71. Böhm, S.; Zakalek, P.; Doege, P.; Baggemann, J.; Cronert, T.; Voigt, J.; Rücker, U.; Mauerhofer, E.; Gutberlet, T.; Brückel, T.
Development of a high-brilliance accelerator driven neutron source: Simulations for NOVA ERA
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 88
72. Brückel, T.; Förster, S.; Roth, G.; Zorn, E. (Eds.)
Laboratory Course Neutron Scattering: Lectures
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **172** (2018)
73. Brückel, T.
Introduction: Neutron Scattering in Contemporary Research
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **172** (2018), 1.1 - 1.16
74. Brückel, T.
A Neutron Primer
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **172** (2018), 2.1 - 2.34
75. Brückel, T.
Applications of Neutron Scattering - an Overview
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **172** (2018), 14.1 - 14.41
76. Brückel, T.; Gutberlet, T.; Rücker, U.; Mauerhofer, E.; Zakalek, P.; Cronert, T.; Voigt, J.; Baggemann, J.; Doege, P.
The HBS Project for a High Brilliance Neutron Source
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 17
77. Cao, L.; Petravic, O.; Zakalek, P.; Weber, A.; Rücker, U.; Schubert, J.; Koutsoumpas, A.; Mattauch, S.; Brückel, T.
Controlling structural and physical properties of epitaxial La_{1-x}Sr_xMnO_{3-δ} films through oxygen stoichiometry
JARA-FIT Annual Report (2018)
78. Feoktystov, A.; Barnsley, L.; Frielinghaus, H.; Appavou, M.-S.; Salhi, Z.; Babcock, E.; Ioffe, A.; Mattauch, S.; Brückel, T.; Förster, S.
KWS-1 SANS instrument with polarization analysis
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 207
79. Gutberlet, T.; Rücker, U.; Mauerhofer, E.; Zakalek, P.; Cronert, T.; Voigt, J.; Baggemann, J.; Doege, P.; Li, J.; Böhm, S.; Brückel, T.
Bringing Neutrons to the User - The HBS Projekt for Accelerator Based Neutron Sources
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 57

80. Gutberlet, T.; Tunger, D.; Zeitler, P.; Brückel, T.
Do neutrons publish? A neutron publication survey, 2005 -2015
arXiv: 1804.07185v1 und Neutron News **29**: 2 (2018), 18 - 24
81. Ioffe, A.; Chen, C.; Danilov, D.; Vezhlev, E.; Notten, P.; Eichel, R.-A.; Mattauch, S.; Brückel, T.
Neutron Depth Profiling at a focused neutron beam to study Li-ion transport in thin-film batteries
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 113
82. Maraytta, N.; Hutanu, V.; Skourski, Y.; Voigt, J.; Friese, K.; Perßon, J.; Brückel, T.
Magnetization and Magnetocaloric Effect in $MnFe_4Si_3$
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 118
83. Mattauch, S.; Koutsoumpas, A.; Pütter, S.; Syed Mohd, A.; Babcock, E.; Salhi, Z.; Ioffe, A.; Brückel, T.
The high intensity reflectometer of the JCNS: MARIA
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 148
84. Pecanha Antonio, V.; Su, Y.; Feng, E., Brückel, T.
Frustration in Sm-based pyrochlores
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 182
85. Qdemat, A.; Kentzinger, E.; Brückel, T.; Rucker, U.
Nanoscience crystallography at a high brilliance laboratory X-ray diffractometer: from mesoscopic to interatomic length scales
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 126
86. Qdemat, A.; Kentzinger, E.; Xu, J.; Portale, G.; Ganeva, M.; Mattauch, S.; Buitenhuis, J.; Dresen, D.; Disch, S.; Sun, X.; Petravic, O.; Rucker, U.; Brückel, T.
The structural and magnetic properties of ordered arrangements of magnetic nanoparticles
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 171
87. Rucker, U.; Voigt, J.; Mauerhofer, E.; Zakalek, P.; Böhm, S.; Cronert, T.; Gutberlet, T.; Brückel, T.
Instrumentation for compact High Brilliance Neutron Source
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 177
88. Sarkar, A.; Brückel, T.
Growth and characterization of $Fe_3O_4/Nb:SrTiO_3$ heterostructure
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 78
89. Schmidt, W.; Schmalzl, K.; Raymond, S.; Brückel, T.
JCNS@ILL: News and progress on IN12
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 223
90. Schöffmann, P.; Pütter, S.; Schubert, J.; Zander, W.; Wasch, M.; Vezhlev, E.; Zakalek, P.; Brückel, T.
Morphology and crystallinity of $Sr_xCo_yO_z$ films at different growth conditions and stoichiometry
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 170
91. Stellhorn, A.; Sarkar, A.; Kentzinger, E.; Wasch, M.; Schöffmann, P.; Fu, Z.; Pipich, V.; Syed Mohd, A.; Mattauch, S.; Brückel, T.
Interface effects in superconductor-ferromagnet heterostructures
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 197
92. Vezhlev, E.; Ioffe, A.; Mattauch, S.; Staringer, S.; Kusche, H.; Ossovy, V.; Nebel, A.; Felder, C.; Brückel, T.; Vacik, J.; Tomandl, I.; Hnatowicz, V.
A new Neutron Depth Profiling spectrometer at JCNS
MLZ Newsletter **20** (2018), 11
93. Violini, N.; Voigt, J.; Orecchini, A.; Brückel, T.; Koenen, M.; Kämmerling, H.; Kozielowski, T.; Sacchetti, F.
T-REX, a bi-spectral chopper spectrometer for the ESS
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 180
94. Wasch, M.; Voigt, J.; Zakalek, P.; Barthel, J.; Brückel, T.
Influence of growth on interface structure and magnetism in $La_{1/3}Sr_{2/3}FeO_3/La_{2/3}Sr_{1/3}MnO_3$ heterostructures
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 222
95. Zakalek, P.; Doege, P.; Baggemann, J.; Böhm, S.; Cronert, T.; Voigt, J.; Rucker, U.; Mauerhofer, E.; Gutberlet, T.; Brückel, T.
The production and moderation of neutrons for a High Brilliance Neutron Source
German Conf. for Research with Synchrotron Radiation, Neutrons and Ion Beams at Large Facilities, Abstract Book (2018), 224

2017

96. Biniskos, N.; Raymond, S.; Schmalzl, K.; Schneidewind, A.; Voigt, J.; Georgii, R.; Hering, P.; Persson, J.; Friese, K.; Brückel, T.
Spin dynamics of the magnetocaloric compound $MnFe_4Si_3$
Jara Fit Annual Report (2017)
97. Brückel, T.; Förster, S.; Roth, G.; Zorn, E. (Eds.)
Laboratory Course Neutron Scattering: Lectures
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **147** (2017)
98. Brückel, T.
Introduction: Neutron Scattering in Contemporary Research
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **147** (2017), 1.1 - 1.16
99. Brückel, T.
A Neutron Primer
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **147** (2017), 2.1 - 2.34
100. Brückel, T.
Applications of Neutron Scattering - an Overview
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **147** (2017), 14.1 - 14.40
101. Brückel, T.; Förster, S.; Roth, G.; Zorn, E. (Eds.)
Laboratory Course Neutron Scattering: Experiment Manual
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **148** (2017)

102. Josten, E.; Glavic, A.; Meertens, D.; Wetterskog, E.; Bergström, L.; Brückel, T.; Linder, J.
Magnetic nanomaterials
JCNS Workshop 2017 „Trends and Perspectives in Neutron Scattering: Probing Structure and Dynamics at Interfaces and Surfaces“, Abstract Book (2017), 24
103. Kentzinger, E.; Brückel, T.
Polarized GISANS from lateral correlations of the spin misalignment
JCNS Workshop 2017 „Trends and Perspectives in Neutron Scattering: Probing Structure and Dynamics at Interfaces and Surfaces“, Abstract Book (2017), 59
104. Mauerhofer, E.; Rucker, U.; Cronert, T.; Zakalek, P.; Baggemann, J.; Doege, P.-E.; Li, J.; Böhm, S.; Kleines, H.; Gutberlet, T.; Brückel, T.
Conceptual Design Report NOVA ERA (Neutrons Obtained Via Accelerator for Education and Research Activities) A Jülich High Brilliance Neutron Source project
Schriften des Forschungszentrums Jülich, Allgemeines/General **7** (2017)
105. Peçanha Antonio, V.; Feng, E.; Su, Y.; Pomjakushin, V.; Demmel, F.; Chang, L.-J.; Aldus, R.; Xiao, Y.; Lees, M.; Brückel, T.
Magnetic excitations in the ground state of Yb₂Ti₂O₇
Jara Fit Annual Report (2017)
106. Pütter, S.; Syed Mohd, A.; Brückel, T.
Aside from neutron instruments: thin film fabrication by molecular beam epitaxy at the Jülich Centre for Neutron Science
JCNS Workshop 2017 „Trends and Perspectives in Neutron Scattering: Probing Structure and Dynamics at Interfaces and Surfaces“, Abstract Book (2017), 31
107. Qdemat, A.; Kentzinger, E.; Ganeva, M.; Buitenhuis, J.; Xu, J.; Portale, G.; Dresen, D.; Disch, S.; Moers, J.; Sun, X.; Petravic, O.; Rucker, U.; Brückel, T.
The spin structure of highly ordered arrangement of magnetic nanoparticles
JCNS Workshop 2017 „Trends and Perspectives in Neutron Scattering: Probing Structure and Dynamics at Interfaces and Surfaces“, Abstract Book (2017), 25
108. Schöffmann, P.; Pütter, S.; Syed Mohd, A.; Brückel, T.
Pre-characterization of thin film samples by atomic and magnetic force microscopy
JCNS Workshop 2017 „Trends and Perspectives in Neutron Scattering: Probing Structure and Dynamics at Interfaces and Surfaces“, Abstract Book (2017), 61
109. Stellhorn, A.; Schröder, S.; Abuladze, G.; Sarkar, A.; Kentzinger, E.; Brückel, T.
Interactions between superconductor-ferromagnet thin films
JCNS Workshop 2017 „Trends and Perspectives in Neutron Scattering: Probing Structure and Dynamics at Interfaces and Surfaces“, Abstract Book (2017), 62
110. Sun, X.; Klapper, A.; Feng, E.; Su, Y.; Nemkovski, K.; Bauer, H.; Schilman, A.; Köhler, O.; Tremel, W.; Petravic, O.; Brückel, T.
Spin Structure of MnO Nanoparticles, powder and single crystal
Jara Fit Annual Report (2017)
111. Syed Mohd, A.; Pütter, S.; Mattauch, S.; Koutsioumpas, A.; Brückel, T.
Connecting MARIA with the MBE system: Polarized Neutron Reflectivity of thin Co films in UHV conditions using portable transport chamber
JCNS Workshop 2017 „Trends and Perspectives in Neutron Scattering: Probing Structure and Dynamics at Interfaces and Surfaces“, Abstract Book (2017), 46
112. Vezhlev, E.; Ioffe, A.; Mattauch, S.; Brückel, T.; Chen, C.; Danilov, D.; Eichel, R.-A.; Notten, P.
Neutron Depth Profiling at a focused neutron beam to study Li-ion transport in thin-film batteries
JCNS Workshop 2017 „Trends and Perspectives in Neutron Scattering: Probing Structure and Dynamics at Interfaces and Surfaces“, Abstract Book (2017), 34
113. Wang, L.; Petravic, O.; Kentzinger, E.; Rucker, U.; Schmitz, M.; Wie, X.-K.; Heggen, M.; Brückel, T.
Strain and electric-field control of magnetism in supercrystalline iron oxide nanoparticle–BaTiO₃ composites
Jara Fit Annual Report (2017)
114. Waschke, M.; Voigt, J.; Brückel, T.
Interface phenomena in La_{1/3}Sr_{2/3}FeO₃ / La_{2/3}Sr_{1/3}MnO₃ heterostructures
JCNS Workshop 2017 „Trends and Perspectives in Neutron Scattering: Probing Structure and Dynamics at Interfaces and Surfaces“, Abstract Book (2017), 64

2015

115. Brückel, T.; Richter, D.; Roth, G.; Wischniewski, A.; Zorn, E. (Eds.)
Laboratory Course Neutron Scattering: Lectures
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **106** (2015)
116. Brückel, T.
Introduction: Neutron Scattering in Contemporary Research
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **106** (2015), 1.1 - 1.16
117. Brückel, T.
A Neutron Primer
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **106** (2015), 2.1 - 2.34
118. Brückel, T.
Applications of Neutron Scattering - an Overview
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **106** (2014), 14.1 - 14.40
119. Brückel, T.; Richter, D.; Roth, G.; Wischniewski, A.; Zorn, E. (Eds.)
Laboratory Course Neutron Scattering: Experiment Manual
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **107** (2015)

120. Brückel, T.; Heger, G.; Richter, D.; Roth, G.; Zorn, E. (Eds.)
Laboratory Course Neutron Scattering: Lectures
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **84** (2014)
121. Brückel, T.
Introduction: Neutron Scattering in Contemporary Research
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **84** (2014), 1.1 - 1.16
122. Brückel, T.
Applications of Neutron Scattering - an Overview
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **84** (2014), 14.1 - 14.40
123. Brückel, T.; Heger, G.; Richter, D.; Roth, G.; Zorn, E. (Eds.)
Laboratory Course Neutron Scattering: Experiment Manuals
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **85** (2014)
124. Schmalzl, K.; Schmidt, W.; Raymond, S.; Vettard, B.; Brückel, T.
The upgraded IN12 instrument: a powerful cold neutron three-axis spectrometer
ILL Annual Report 2013 (2014), G. Cicognani and H. Schober (eds.), 80

125. Brückel, T.; Heger, G.; Richter, D.; Roth, G.; Zorn, E. (Eds.)
Laboratory Course Neutron Scattering: Lectures
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **63** (2013)
126. Brückel, T.
Introduction: Neutron Scattering in Contemporary Research
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **63** (2013), 1.1 - 1.16
127. Brückel, T.
Applications of Neutron Scattering - an Overview
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **63** (2013), 14.1 - 14.40
128. Brückel, T.; Heger, G.; Richter, D.; Roth, G.; Zorn, E. (Eds.)
Laboratory Course Neutron Scattering: Experiment Manuals
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **64** (2013)
129. Brückel, T.; Su, Y.; Bruchhaus, R. (Eds.)
JCMS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“
Abstract Book (2013)
130. A. Feoktystov, M. Avdeev, N. Matoussevitch, A. Ioffe, T. Brückel
Detailed SANS contrast variation on toluene-based Co ferrofluid
JCMS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“, Abstract Book (2013), 56
131. Z. Fu, Y. Zheng, Y. Xiao, S. Bedanta, A. Senyshyn, G. Simeoni, Y. Su, U. Rucker, P. Kögerler, T. Brückel
JCMS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“, Abstract Book (2013), 31
132. A. Klapper, X. Sun, O. Petravic, S. Disch, O. Köhler, H. Bauer, A.-M. Schilman, T. Brückel
JCMS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“, Abstract Book (2013), 54
133. H. Nair, Z. Fu, K. Nemkovskiy, J. Voigt, K. Schmalzl, Y. Su, T. Brückel
JCMS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“, Abstract Book (2013), 23
134. Nandi, S.; Xiao, Y.; Chapon, L. C.; Su, Y.; Jin, W.; Chatterji, T.; Wolf, T.; Brückel, T.
Understanding magnetism in $K0.8Fe1.6Se2$
JCMS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“, Abstract Book (2013), 36
135. Nandi, S.; Jin, W.; Xiao, Y.; Su, Y.; Price, S.; Shukla, D. K.; Francoual, S.; Stremper, J.; Jeevan, H. S.; Gegenwart, P.; Brückel, T.
Field-induced spin reorientation in $\text{EuFe}_2(\text{As}_{0.85}\text{P}_{0.15})_2$ revealed by resonant magnetic x-ray scattering
JCMS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“, Abstract Book (2013), 63
136. K. Nemkovskiy, Y. Su, W. Schweika, A. Ioffe, T. Brückel
JCMS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“, Abstract Book (2013), 62
137. S. Pütter, A. Steffen, T. Brückel
JCMS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“, Abstract Book (2013), 69
138. M. Schmitz, A. Weber, D. Schumacher, P. Zakalek, M. Waschk, T. Brückel
JCMS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“, Abstract Book (2013), 71
139. Y. Su, Y. Xiao, L.P. Regnault, K. Schmalzl, S. Price, S. Nandi, W. T. Jin, W. Schmidt, T. Wolf, C. L. Zhang, P. C. Dai, T. Brückel
JCMS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“, Abstract Book (2013), 38
140. N. Violini, J. Voigt, T. Brückel, E. Babcock, Z. Salhi
T-REX: A Time-of-flight Reciprocal space Explorer for the future ESS source

JCNS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“, Abstract Book (2013), 55

141. M. Waschk, A. Weber, P. Zakalek, A. Steffen, M. Schmitz, T. Brückel
JCNS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“, Abstract Book (2013), 70
142. Y. Xiao, S. Nandi, Y. Su, S. Price, H.-F. Li, Z. Fu, W. Jin, A. Piovano, A. Ivanov, K. Schmalzl, W. Schmidt, T. Chatterji, Th. Wolf, T. Brückel
JCNS Workshop 2013 „Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electron Systems“, Abstract Book (2013), 35

2012

143. Angst, M.; Brückel, T.; Richter, D.; Zorn, R. (Eds.)
Scattering Methods for Condensed Matter Research: Towards Novel Applications at Future Sources: Lecture Notes of the 43rd IFF Spring School 2012
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **33** (2012)
144. Brückel, T.
100 years of Scattering and Beyond
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **33** (2012), A01
145. Brückel, T.
Applications of Neutron Scattering - an Overview
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **39** (2012), 14.1 - 14.40
146. Brückel, T. (Ed.)
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012)
147. Brückel, T.
Introduction: Neutron Scattering in Contemporary Research
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **39** (2012), 1.1 - 1.16
148. Brückel, T.; Heger, G.; Richter, D.; Roth, G.; Zorn, E. (Eds.)
Laboratory Course Neutron Scattering: Experiment Manuals
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **40** (2012)
149. Brückel, T.; Heger, G.; Richter, D.; Roth, G.; Zorn, E. (Eds.)
Laboratory Course Neutron Scattering: Lectures
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **39** (2012)
150. Feoktystov, A. V.; Avdeev, M. V.; Matoussevitch, N.; Ioffe, A.; Brückel, T.
Detailed SANS contrast variation on toluene-based Co ferrofluid
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 74
151. Fu, Z.; Zheng, Y.; Xiao, Y.; Bedanta, S.; Senyshyn, A.; Simeoni, G.; Su, Y.; Rücker, U.; Kögerler, P.; Brückel, T.
Coexistence of novel magnetic orders and spin-glass-like phase in pyrochlore antiferromagnet $\text{Na}_3\text{Co}(\text{CO}_3)_2\text{Cl}$
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 75
152. Herlitschke, M.; Gottschlich, M.; Klobes, B.; Voigt, J.; Perßon, J.; Wille, H.-C.; Schlage, K.; Brückel, T.; Hermann, R.
Magnetoelastic coupling in MnFe_4Si_3
498. WE-Heraeus-Seminar „Progress in Nuclear Resonance Scattering: from Methods to Materials“, 26. - 29.02.2012, Physikzentrum Bad Honnef, Programme & Abstract Book
153. Jacobs, P.; Houben, A.; Schweika, W.; Walter, J.; Conrad, H.; Müller, P.; Hansen, B. T.; Brückel, T.; Dronskowski, R.
POWTEX - High-Intensity Neutron TOF Diffractometer
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 98
154. Josten, E.; Rücker, U.; Mattauch, S.; Glavic, A.; Klapper, A.; Kentzinger, E.; Petravic, O.; Ambaye, H.; Lauter, V.; Andreasen, J. W.; Brauweiler-Reuters, E.; Meertens, D.; Wetterskog E.; Salazar- Alvarez, G.; Bergström, L.; Brückel, T.
Structural and magnetic correlations in 3D ordered nanoparticle assemblies
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 17
155. Mattauch, S.; Rücker, U.; Korolkov, D.; Babcock, E.; Ioffe, A.; Brückel, T.
MARIA - The high-intensity polarized neutron reflectometer of JCNS
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 103
156. Nandi, S.; Su, Y.; Xiao, Y.; Price, S.; Wang, X. F.; Chen, X. H.; Herrero-Martin, J.; Mazzoli, C.; Walker, H. C.; Paolasini, L.; Francoal, S.; Shukla, D. K.; Strepfer, J.; Chatterji, T.; Kumar, C. M. N.; Mittal, R.; Ronnow, H. M.; Rüegg, Ch.; McMorro, D. F.; Schmidt, W.; Brückel, T.
Strong coupling of Sm and Fe magnetism in SmFeAsO
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 135
157. Pipich, V.; Fu, Z.; Korolkov, D.; Radulescu, A.; Frielinghaus, H.; Ioffe, A.; Brückel, T.; Richter, D.
Focusing mirror VSANS diffractometer KWS-3: merging nano- and micrometer worlds
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 107
158. Schmidt, W.; Schmalzl, K.; Raymond, S.; Brückel, T.
The upgrade of IN12 - Simulations and first neutron measurements
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 111

159. Schmitz, M.; Kentzinger, E.; Weber, A.; Rücker, U.; Josten, E.; Brückel, T.
Mesoscopic magnetic structure and competing anisotropies in laterally patterned Fe/Cr-layer systems
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 158
160. Su, Y.; Schweika, W.; Ioffe, A.; Brückel, T.
DNS - A versatile diffuse neutron scattering spectrometer with polarization analysis at FRM II
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 116
161. Violini, N.; Voigt, J.; Brückel, T.; Babcock, E.; Salhi, Z.; Deen, P.P.
Development of a multi-band direct geometry chopper spectrometer for the future European Spallation Source
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 118
162. Voigt, J.; Nemkovski, K.; Babcock, E.; Salhi, Z.; Brückel, T.
Progress report on the novel time-of-flight spectrometer with polarization analysis TOPAS
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 119
163. Walters, A. C.; Keller, T.; Boeri, L.; Demler, E.; Wolf, T.; Su, Y.; Price, S.; Xiao, Y.; Brückel, T.; Keimer, B.
A neutron resonance spin-echo study of the symmetry of the order parameter in an iron-based superconductor
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 26
164. Weber, A.; Pütter, S.; Schmitz, M.; Waschk, M.; Brückel, T.
Towards novel functionalities with metal and complex oxide thin films prepared with an oxygen assisted molecular beam epitaxy
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 80
165. Xiao, Y.; Su, Y.; Nandi, S.; Price, S.; Brückel, T.
Phase transitions tuned by magnetic field, pressure and chemical doping in EuFe_2As_2
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 81
166. Zakalek, P.; Rücker, U.; Schumacher, D.; Mattauch, S.; Brückel, T.
Induced magnetisation in Pd/Fe-Multilayers
Deutsche Neutronenstreutagung 2012: Programm and Abstracts
Schriften des Forschungszentrums Jülich, Schlüsseltechnologien **46** (2012), 160

2011

167. Brückel, T.; Heger, G.; Richter, D.; Roth, G.; Zorn, R. (Eds.)
Laboratory Course Neutron Scattering (Lectures)
Schriften des Forschungszentrum Jülich, Schlüsseltechnologien **27** (2011)
168. Brückel, T.
Introduction: Neutron Scattering in Contemporary Research
Schriften des Forschungszentrum Jülich, Schlüsseltechnologien **27** (2011), 1-1 - 1-15
169. Brückel, T.
Applications of Neutron Scattering - an Overview
Schriften des Forschungszentrum Jülich, Schlüsseltechnologien **27** (2011), 14-1 - 14-40
170. Brückel, T.; Heger, G.; Richter, D.; Roth, G.; Zorn, R. (Eds.)
Laboratory Course Neutron Scattering (Experimental Manuals)
Schriften des Forschungszentrum Jülich, Schlüsseltechnologien **28** (2011)
171. Brückel, T.; Eckold, G.; Griewatsch, K.; Link, P.; Steitz, R.; Voit, A.; Zabel, H. (Eds.)
Perspektiven der Neutronenforschung in Deutschland, Perspectives of Neutron Research in Germany: im Licht der kommenden neuen Europäischen Neutronenquelle (2011)

2010

172. Bedanta, S.; Kleemann, W.; Petravic, O.; Rhensius, J.; Chen, X.; Eimüller, T.; Kentzinger, E.; Rücker, U.; Brückel, T.; Cardoso, S.; Freitas, P.
Supermagnetism in magnetic nanoparticle systems
7th Internat. Conf. on Fine Particle Magnetism (ICFPM-2010), Abstract Book (2010), 25
173. Blügel, S.; Brückel, T.; Waser, R.; Schneider, C. M. (Eds.)
Lecture Notes of the 41st Spring School 2010, Schriften des FZ Jülich, Schlüsseltechnologien **13** (2010)
174. Brückel, T.; Heger, G.; Richter, D.; Roth, G.; Zorn, R. (Eds.)
Laboratory Course Neutron Scattering (Lectures)
Schriften des Forschungszentrum Jülich, Schlüsseltechnologien **15** (2010)
175. Brückel, T.
A neutron primer: Elastic scattering and the properties of the neutron
Schriften des Forschungszentrum Jülich, Schlüsseltechnologien **15** (2010), 2-1 - 2-31
176. Brückel, T.
Applications of neutron scattering
Schriften des Forschungszentrum Jülich, Schlüsseltechnologien **15** (2010), 5-1 - 5-31
177. Brückel, T.
Correlated electrons in complex transition metal oxides
Schriften des Forschungszentrum Jülich, Schlüsseltechnologien **15** (2010), 11-1 - 11-21

178. Brückel, T.
Die magnetische Röntgenbeugung
in: Forschung mit Synchrotronstrahlung: Eine Einführung in die Grundlagen und Anwendungen, Jens Falta und Thomas Möller (Hrsg)., Vieweg + Teubner (2010), 233 - 240
179. Brückel, T.
Elementspezifische magnetische Ordnung in den Mischkristallen GdxEu1-xS: Resonante magnetische Röntgenbeugung
in: Forschung mit Synchrotronstrahlung: Eine Einführung in die Grundlagen und Anwendungen, Jens Falta und Thomas Möller (Hrsg)., Vieweg + Teubner (2010), 366 - 373
180. Disch, S.; Hermann, R.; Brückel, T.
Magnetic scattering by iron oxide nanoparticles
SNI - Deutsche Tagung für Forschung mit Synchrotronstrahlen, Neutronen und Ionenstrahlen an Großgeräten, Freie Universität Berlin, 24. - 26.02.2010, Programm & Abstractbook (2010), 299
181. Disch, S.; Wetterskog, E.; Hermann, R.; Bergström, L.; Brückel, T.
Magnetization distribution in iron oxide nanoparticles
Neutrons for Global Energy Solutions, Abstract Book (2010), 72
182. Disch, S.; Wetterskog, E.; Hermann, R.; Bergström, L.; Brückel, T.
Polarized SANS by iron oxide nanoparticles
Abstract Book "Polarised Neutrons in Condensed Matter Investigations" (2010), 18
183. Fu, Z.; Kögerler, P.; Rücker, U.; Su, Y.; Brückel, T.
Approaching the magnetic ground state of molecular magnet {Mo72Fe30}
SNI - Deutsche Tagung für Forschung mit Synchrotronstrahlen, Neutronen und Ionenstrahlen an Großgeräten, Freie Universität Berlin, 24. - 26.02.2010, Programm & Abstractbook (2010), 341
184. Glavic, A.; Voigt, J.; Brown, P. J.; Chatterji, T.; Kumar, C. M. N.; Su, Y.; Perßon, J.; Schubert, J.; Brückel, T.
Neutronenpolarisationsanalyse zur Untersuchung komplexer magnetischer Strukturen am Beispiel von TbMnO₃-Einkristallen und Dünnschichten
SNI - Deutsche Tagung für Forschung mit Synchrotronstrahlen, Neutronen und Ionenstrahlen an Großgeräten, Freie Universität Berlin, 24. - 26.02.2010, Programm & Abstractbook (2010), 328
185. de Groot, J.; Kentzinger, E.; Voigt, J.; Gukasov, A.; Gillon, B.; Brückel, T.
Magnetization density in multiferroic TbMnO₃
Abstract Book, Conf. FLIPPER, Single-Crystal Diffraction with Polarised Neutrons (2010), 42 - 43
186. Houben, A.; Schweika, W.; Walter, J.; Conrad, H.; Müller, P.; Hansen, B. T.; Brückel, T.; Dronskowski, R.
POWTEX - The new high-intensity neutron TOF diffractometer at FRM II
SNI - Deutsche Tagung für Forschung mit Synchrotronstrahlen, Neutronen und Ionenstrahlen an Großgeräten, Freie Universität Berlin, 24. - 26.02.2010, Programm & Abstractbook (2010), 93
187. Josten, E.; Rücker, U.; Mattauch, S.; Korolkov, D.; Glavic, A.; Gilles, S. (IBN-2); Brückel, T.
Magnetische Korrelationen in lateral strukturierten Schichtsystemen
SNI - Deutsche Tagung für Forschung mit Synchrotronstrahlen, Neutronen und Ionenstrahlen an Großgeräten, Freie Universität Berlin, 24. - 26.02.2010, Programm & Abstractbook (2010), 329
188. Kumar, C. M. N.; Xiao, Y.; Su, Y.; Senyshyn, A.; Perßon, J.; Brückel, T.
Structural and magnetic investigations on metastable hexagonal DyMnO₃
SNI - Deutsche Tagung für Forschung mit Synchrotronstrahlen, Neutronen und Ionenstrahlen an Großgeräten, Freie Universität Berlin, 24. - 26.02.2010, Programm & Abstractbook (2010), 333
189. Lamago, D.; Mittal, R.; Pintschovius, L.; Reznik, D.; Heid, R.; Chaplot, S. L.; Kumar, N.; Bohnen, K.-P.; Su, Y.; Brückel, T.
Anomalous phonons in CaFe₂As₂ explored by inelastic neutron scattering
SNI - Deutsche Tagung für Forschung mit Synchrotronstrahlen, Neutronen und Ionenstrahlen an Großgeräten, Freie Universität Berlin, 24. - 26.02.2010, Programm & Abstractbook (2010), 67
190. Mattauch, S.; Rücker, U.; Korolkov, D.; Babcock, E.; Ioffe, A.; Brückel, T.
MARIA - The new high-intensity polarized neutron reflectometer of JCNS
Abstract Book "Polarised Neutrons in Condensed Matter Investigations" (2010), 14
191. Mattauch, S.; Rücker, U.; Korolkov, D.; Fracassi, V.; Schmitz, R.; Daemen, J.; Budwig, A.; Kleines, H.; Kämmerling, P.; Wagener, M.; Bednarek, M.; Bussmann, K.; Babcock, E.; Ioffe, A.; Brückel, T.
The new high flux polarised neutron reflectometer MARIA at JCNS
SNI - Deutsche Tagung für Forschung mit Synchrotronstrahlen, Neutronen und Ionenstrahlen an Großgeräten, Freie Universität Berlin, 24. - 26.02.2010, Programm & Abstractbook (2010), 85
192. Price, S.; Su, Y.; Xiao, Y.; Nandi, S.; Brückel, T.
Magnetic neutron scattering on iron arsenide high TC superconductors
Neutrons for Global Energy Solutions, Abstract Book (2010), 82
193. Schmidt, W.; Schmalzl, K.; Feilbach, H.; Brückel, T.
Upgrades für IN12: Status und Perspektiven
SNI - Deutsche Tagung für Forschung mit Synchrotronstrahlen, Neutronen und Ionenstrahlen an Großgeräten, Freie Universität Berlin, 24. - 26.02.2010, Programm & Abstractbook (2010), 96
194. Su, Y.; Schweika, W.; Mittal, R.; Borghols, W.; Ioffe, A.; Brückel, T.
DNS - A diffuse neutron scattering spectrometer with polarization analysis at FRM II
Abstract Book "Polarised Neutrons in Condensed Matter Investigations" (2010), 13
195. Su, Y.; Xiao, Y.; Mittal, R.; Price, S.; Chatterji, T.; Herrero-Martin, J.; Mazzoli, C.; Paolasini, L.; Meven, M.; Kumar, C. M. N.; Brown, P. J.; Stunault, A.; Wolf, Th.; Thamizhavel, A.; Brückel, T.
Static Magnetism of iron pnictides as probed via complementary neutron and synchrotron x-ray scattering techniques
SNI - Deutsche Tagung für Forschung mit Synchrotronstrahlen, Neutronen und Ionenstrahlen an Großgeräten, Freie Universität Berlin, 24. - 26.02.2010, Programm & Abstractbook (2010), 333

196. Voigt, J.; Nemkovskiy, K.; Babcock, E.; Brückel, T.
TOPAS, the new JCNS time-of-flight spectrometer at FRM II
Neutrons for Global Energy Solutions, Abstract Book (2010), 69
197. Xiao, Y.; Su, Y.; Meven, M.; Price, S.; Thamizhavel, A.; Brückel, T.
Magnetic structure of EuFe₂As₂ determined by single crystal neutron diffraction management
Neutrons for Global Energy Solutions, Abstract Book (2010), 84
198. Zakalek, P.; Rücker, U.; Brückel, T.; Schumacher, D.; Mattauch, S.
Neutronenreflektometrie an Pd/Fe-Multilayers
SNI - Deutsche Tagung für Forschung mit Synchrotronstrahlen, Neutronen und Ionenstrahlen an Großgeräten, Freie Universität Berlin, 24. - 26.02.2010, Programm & Abstractbook (2010), 328

2009

199. Brückel, T.
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009
200. Brückel, T.; Voigt, J.; Ioffe, A.; Manoshin, S.
Diffractometer for non-equilibrium states of condensed matter
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 95
201. Disch, S.; Hermann, R.; Sager, W.; Brückel, T.
Not so small angle scattering with polarization analysis: Towards the magnetic form factor of nanoparticles
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 131
202. de Groot, J.; Kentzinger, E.; Voigt, J.; Goukassov, A.; Gillon, B.; Brückel, T.
Magnetization density in TbMnO₃ single crystals
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 120
203. Herrero-Martin, J.; Paolasini, L.; Mazzoli, C.; Scagnoli, V.; Mittal, R.; Brückel, T.; Su, Y.
Study of magnetic correlations on the iron pnictide EuFe₂As₂ by RXS
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 73
204. Josten, E.; Rücker, U.; Brückel, T.
Magnetic correlations in laterally patterned magnetic multilayers
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 161
205. Kentzinger, E.; Mattauch, S.; Korolkov, D.; Rücker, U.; Ioffe, A.; Toperverg, B.; Brückel, T.
Probing lateral correlations in magnetic nanostructures by polarized neutron scattering under grazing incidence
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 104
206. Kumar, C. M. N.; Xiao, Y.; Su, Y.; Perßon, J.; Brückel, T.
Magnetic structure of hexagonal DyMnO₃
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 123
207. Mattauch, S.; Rücker, U.; Fracassi, V.; Schmitz, R.; Daemen, J.; Babcock, E.; Ioffe, A.; Brückel, T.
MARIA - The new high-intensity polarized neutron reflectometer of JCNS
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 106
208. Pfuhl, E.; Voigt, J.; Brückel, T.
Proximity effects in Er/Tb multilayers
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 166
209. Rücker, U.; Toperverg, B.; Ott, F.; Brückel, T.
Zeeman splitting revisited - polarized neutron reflectivity in high magnetic fields
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 167
210. Schumacher, D.; Mattauch, S.; Rücker, U.; Brückel, T.
2-Dimensional magnetism of Fe-Monolayers in Pd
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 168
211. Su, Y.; Schweika, W.; Mittal, R.; Harbott, P.; Küssel, E.; Bussmann, K.; Gossen, F.; Schmitz, B.; Skrobucha, M.; Möller, R.; Wagener, M.; Drochner, M.; Kleines, H.; Ioffe, A.; Brückel, T.
DNS-Diffuse neutron scattering with polarization analysis
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 110
212. Voigt, J.; Babcock, E.; Brückel, T.
Polarisation analysis for thermal time-of-flight spectroscopy
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 113
213. Xiao, Y.; Su, Y.; Kumar, C. M. N.; Li, H.-F.; Mittal, R.; Perßon, J.; Senyshyn, A.; Gross, K.; Brückel, T.
Magnetic structure and orbital ordering in KCrF₃
Internat. Conf. "Polarized Neutrons and Synchrotron X-rays for Magnetism: Book of Abstract" : 2 - 5 August 2009, Bonn, 2009. - S. 148

2008

214. Brückel, T.; Heger, G.; Richter, D.; Zorn, R. (Eds.)
Laboratory Course Neutron Scattering (Lectures)
Schriften des Forschungszentrum Jülich, Schlüsseltechnologien 5 (2008)
215. Brückel, T.
A neutron primer: Elastic scattering and the properties of the neutron
Schriften des Forschungszentrum Jülich, Schlüsseltechnologien 5 (2008), 2-1 - 2-31
216. Brückel, T.
Applications of neutron scattering
Schriften des Forschungszentrum Jülich, Schlüsseltechnologien 5 (2008), 6-1 - 6-27

217. Brückel, T.
Correlated electrons in complex transition metal oxides
Schriften des Forschungszentrum Jülich, Schlüsseltechnologien **5** (2008), 15-1 - 15-20
218. Brückel, T.; Kentzinger, E.; Mattauch, S.; Paul, A.; Rücker, U.; Voigt, J.
A deeper look into magnetic nanostructures using advanced scattering methods
Proceedings of the Internat. Symposium on Neutron Scattering (15. - 18.01.2008)
Pramana - Journal of Physics **71**, 5, (2008), 895
219. Kentzinger, E.; Busch, P.; Korolkov, D.; Mattauch, S.; Paul, A.; Rücker, U.; Voigt, J.; Brückel, T.
Correlations in nanostructured materials by neutron scattering under grazing incidence
nanoelectronic days 2008, Abstract Book, Forschungszentrum Jülich, CNI (2008), 81

2007

220. Brückel, T.
Atomic and magnetic structures in crystalline materials: Neutron and x-ray scattering
Schriften des Forschungszentrum Jülich, Materie und Material **34** (2007), D1.1 - D1.47
221. Brückel, T.; Heger, G.; Richter, D.; Zorn, R. (Eds.)
Laboratory Course Neutron Scattering
Schriften des Forschungszentrum Jülich, Materie und Material **38** (2007)
222. Brückel, T.
A neutron primer: Elastic scattering and the properties of the neutron
Schriften des Forschungszentrum Jülich, Materie und Material **38** (2007), 2-1 - 2-31
223. Brückel, T.
Magnetism
Schriften des Forschungszentrum Jülich, Materie und Material **38** (2007), 15-1 - 15-19

2006

224. Brückel, T.; Speier, W. (Eds.)
Large Scale Facilities for Research with Photons, Neutrons, and Ions
Annual Report for Research Field "Structure of Matter" 2005, Forschungszentrum Jülich (2006)
225. Brückel, T.; Richter, D.; Zorn, R. (Eds.)
Neutron Scattering at FRJ-2: Experimental Reports 2005/6

2005

226. Blügel, S.; Brückel, T.; Schneider, C. M. (Eds.)
Magnetism goes Nano
Schriften des Forschungszentrum Jülich, Materie und Material **26** (2005)
227. Schneider, C. M.; Blügel, S.; Brückel, T.
Introduction
Schriften des Forschungszentrum Jülich, Materie und Material **26** (2005), I.1 - I.12
228. Brückel, T.
Scattering techniques II: Magnetic x-ray scattering
Schriften des Forschungszentrum Jülich, Materie und Material **26** (2005), B5.1 - B5-34
229. Brückel, T.; Heger, G.; Richter, D.; Zorn, R. (Eds.)
Laboratory Course Neutron Scattering
Schriften des Forschungszentrum Jülich, Materie und Material **28** (2005)
230. Brückel, T.
Elastic Scattering from Many-Body Systems
Schriften des Forschungszentrum Jülich, Materie und Material **28** (2005), 3-1 - 3-28
231. Brückel, T.
Magnetism
Schriften des Forschungszentrum Jülich, Materie und Material **28** (2005), 16-1 - 19-19
232. Brückel, T. (Ed.)
Forschung mit Neutronen in Deutschland - Status und Perspektiven (2005)
Strategiepapier des Komitees "Forschung mit Neutronen" KFN

2004

233. Brückel, T.; Richter, D.; Zorn, R. (Eds.)
Neutron Scattering at FRJ-2: Experimental Reports 2004
234. Ioffe, A.; Brückel, T.; Bodnarchuk, V.; Yaradajkin, S.; Belushkin, A.
Development of NSE-based methods of medium-resolution neutron spectroscopy at IBR-2
Proceedings of Germany-JINR User Meeting "Condensed Matter Physics with Neutrons at the IBR-2 pulsed reactor", Dubna, Russia, (12. - 16.06.2004), 12 - 18

2003

235. Brückel, T.; Heger, G.; Richter, D.; Zorn, R. (Eds.)
Laboratory Course Neutron Scattering
Schriften des Forschungszentrum Jülich, Materie und Material **15** (2003)
236. Brückel, T.
Elastic Scattering from Many-Body Systems
Schriften des Forschungszentrum Jülich, Reihe Materie und Material **15** (2003), 3-1 – 3-28
237. Brückel, T.
Magnetism
Schriften des Forschungszentrum Jülich, Reihe Materie und Material **15** (2003), 16-1 - 16-19
238. Brückel, T.; Richter, D.; Tietze-Jaensch, H.; Zorn, R. (Eds.)
Neutron Scattering at FRJ-2: Experimental Reports 2003
239. Brückel, T.
Neutrons in Germany and Europe: Quo Vadis?
Neutron News **14**, 1 (2003), 2 - 3
240. Ioffe, A.; Brückel, T.
Polarized neutron school and workshop held in Jülich
Neutron News **14**, 1 (2003), 13 – 14

2002

241. Brückel, T.
Scattering
Schriften des Forschungszentrums Jülich, Materie und Material **10** (2002) A1.1 - A1.35
242. Brückel, T.; Schweika, W. (Eds.)
Polarised neutron scattering: lectures
Schriften des Forschungszentrums Jülich, Materie und Material **12** (2002)
243. Brückel, T.
Magnetic x-ray and polarised neutron scattering
Schriften des Forschungszentrums Jülich, Materie und Material **12** (2002) 323 - 357
244. Brückel, T.
Magnetic x-ray scattering: status and perspectives
Proc. Workshop on Scientific Applications of Energy-Recovery-Linac-Driven Synchrotron Light Sources, Univ. Erlangen (27.-29.09.02), 187-203
245. Massalovitch S.; Ioffe A.; Küssel E.; Schlapp M.; Brückel Th.
Development of image plate based neutron detector
Internat. Workshop on Position-Sensitive Neutron Detectors - Status and Perspectives, Vol. 2, ISSN 1433-559 (2002) 569 – 571

2001

246. Brückel, T.; Heger, G.; Richter, D.; Zorn, R. (Eds.)
Laboratory Course Neutron Scattering
Schriften des Forschungszentrums Jülich, Materie und Material **9** (2001)
247. Brückel, T.
Elastic scattering from many-body systems
Schriften des Forschungszentrums Jülich, Materie und Material **9** (2001) 3-1 - 3-28
248. Brückel, T.
Magnetism
Schriften des Forschungszentrums Jülich, Materie und Material **9** (2001) 16-1 - 16-20

2000

249. Brückel, T.; Eberhardt, W. (Eds.)
Femtosekunden und Nano-eV: Dynamik in kondensierter Materie (Vorlesungsmanuskripte)
Schriften des Forschungszentrums Jülich, Materie und Material **3** (2000)
250. Brückel, T.; Eberhardt, W.
Dynamik in kondensierter Materie
Schriften des Forschungszentrums Jülich, Materie und Material **3** (2000) 1 - 32
251. Brückel, T.; Heger, G.; Richter, D. (Eds.)
Laboratory Course Neutron Scattering
Schriften des Forschungszentrums Jülich, Materie und Material **5** (2000)
252. Brückel, T.
Elastic scattering from many-body systems
Schriften des Forschungszentrums Jülich, Materie und Material **5** (2000) 3-1 - 3-18
253. Brückel, T.
Magnetism
Schriften des Forschungszentrums Jülich, Materie und Material **5** (2000) 16-1 - 16-19

1999

254. Brückel, T.; Kentzinger, E.
Streumethoden zur Untersuchung von Dünnschichtsystemen
Schriften des Forschungszentrums Jülich, Materie und Material **2** (1999) B3.1-B3.48
255. Brückel, T.
Elastische Streuung an Vielteilchensystemen
Neutronenpraktikum (1999) 4-1 - 4-19
256. Brückel, T.
Magnetische Streuung und Polarisationsanalyse
Neutronenpraktikum (1999) 5-1 - 5-20
257. Brückel, T.; Kentzinger, E.
Streuung unter streifendem Einfall
Neutronenpraktikum (1999) 7-1 - 7-17

1998

258. Brückel, T.; Stempfer, J.; Hupfeld, D.; Schneider, J.; Mattenberger, K.
Synchrotron Radiation Diffraction Studies of Antiferromagnetic Materials
Proc. 2nd Russian-German Workshop on Synchrotron Radiation Research in Atomic, Molecular & Material Science **8 - 9** (1998), 112 – 117

1996

259. Brückel, T.; Stempfer, J.; Schneider, J.
Magnetic properties of solids studied with synchrotron radiation.
Proceedings of the Japanese-German Workshop on the Use of Ultra-short Wavelength Photons and X-rays (1996)

1993

260. Brückel, T.
Magnetische Fluktuationen in Antiferromagneten mit konkurrierenden Wechselwirkungen
Habilitationsschrift, Universität Tübingen (1993)

1988

261. Brückel, T.
Magnetische Fehlordnung in dem Mischgranatsystem $(\text{Fe}_x\text{Cr}_{1-x})_2\text{Ca}_3(\text{GeO}_4)_3$
Dissertation, Universität Tübingen (1988)