

MATERIALS SCIENCE/CRYSTALLOGRAPHY

Ab-Initio Structure Solution of Complex Oxides Using Neutron and X-ray Powder Diffraction Data

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A Bond-Valence Analysis of the Structure of $\text{YBa}_2\text{Fe}_3\text{O}_8$

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Aerogels Investigated by SANS with Contrast Masking Solutions

C. Merzbacher¹⁰¹, M. Anderson¹⁰¹, V. Cepak¹⁰¹, and J. G. Barker¹⁰⁵

Cation Ordering in Magnetically Frustrated Pyrochlores

M. A. Green¹⁴⁷, T. Fennel¹⁴⁷, and S. Bramwell¹⁴⁷

Characterization of Ag and Mixed Li/Ag Faujasite Zeolites Using Neutron Diffraction

N. Hutson²⁰², R. Yang²⁰², B. A. Reisner¹⁰⁵, and B. H. Toby¹⁰⁵

Chemical Ordering in Ni-Mn-Ga Heusler Alloys

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Comparison of Residual Stress Measurement Techniques

T. Gnäupel-Herold^{199, 105}, P. C. Brand¹⁰⁵, H. J. Prask¹⁰⁵, S. Spooner¹²⁷, B. Pardue¹⁶¹, D. Nelson¹⁵⁶, and S. Foss⁷⁰

'CONV' and 'STRESS': New Codes for Data Reduction in Neutron Diffraction Residual Stress Measurements

P. C. Brand¹⁰⁵ and T. Gnäupel-Herold^{199, 105}

Crystal Chemistry of Protonic Centers in Zeolites

D. H. Olson²¹⁰ and B. H. Toby¹⁰⁵

Crystal Structure of $\text{Ba}_2\text{CaCu}_2\text{O}_6(\text{CO}_3)$

Q. Z. Huang^{199, 105} and F. Izumi⁹⁵

Crystal Structure of Dehydrated LaD-LSX

D. H. Olson²¹⁰, B. A. Reisner¹⁰⁵, and B. H. Toby¹⁰⁵

Crystal Structure Determinations of the CeMnO_3 Compound

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Defect Structure of $(\text{Cu,Zn})\text{InSe}_2$

B. A. Reisner¹⁰⁵, M. Knox¹⁷⁸, A. Stacy¹⁷⁸, and G. Ron¹⁷⁸

The Development of Capabilities for the Determination of Residual Stress on the Mesoscale

H. J. Prask¹⁰⁵, P. C. Brand¹⁰⁵, T. Gnäupel-Herold^{199, 105}, D. Balzar¹¹², D. Hurlley¹¹², and G. Alers¹¹²

Development of a Standard for Residual Stress Measurements as Part of VAMAS

T. Gnäupel-Herold^{199, 105}, P. C. Brand¹⁰⁵, H. J. Prask¹⁰⁵, and G. A. Wester⁵⁶

Diffraction Elastic Constants for Arbitrary Specimen and Crystal Symmetries: Theory and Practical Consequences

T. Gnäupel-Herold^{199, 105} and H. J. Prask¹⁰⁵

Distribution of Hydrogen in LaNi_5 and $\text{LaNi}_{5-x}\text{Sn}_x$

B. Fultz¹⁸, C. K. Witham¹⁸, T. Udovic¹⁰⁵, and R. Bowman¹⁸

Effect of Annealing on ZrO_2 Phase Composition

J. K. Stalick¹⁰⁵ and J. Ilavsky²⁹

The Effect of Texture on Elastic Constants

H. Sitepu^{157, 105, 148}, T. Gnäupel-Herold^{199, 105}, J. Matejicek⁶⁴, R. Fields¹¹³, and H. J. Prask¹⁰⁵

The Effect of Texture on Rietveld Refinement of Powder Diffraction Data of Molybdenite and Calcite

H. Sitepu^{157, 105, 148}, T. Gnäupel-Herold^{199, 105}, and H. J. Prask¹⁰⁵

Ethylene Sorption by Copper Aluminum Chloride

R. Sullivan¹²¹, J. Martin¹²¹, H. Liu¹⁵⁷, and C. Grey¹⁵⁷

Exploration of Fe Disproportionation in Ba_3FeO_5

B. A. Reisner¹⁰⁵, J. Delattre¹⁷⁸, and A. Stacy¹⁷⁸

Formation of Titanium Mesoporous Materials

P. D. Butler^{105, 127}

Grazing Incidence SANS From Plasma Sprayed Coatings

A. J. Allen¹⁰⁹ and H. Boukari¹⁰⁹

Hybridized Epoxy-Silicate Nanocomposites

N. Beck-Tan⁶, S. Young⁶, and S. F. Trevino^{9, 105}

Internally Oxidized Palladium Alloys: Particle Size Determination by SANS

J. G. Barker¹⁰⁵ and T. B. Flanagan²²¹

Investigation of the $\text{Zr}_3\text{Pt}_{11}$ Structure Type

J. K. Stalick¹⁰⁵ and R. Waterstrat¹⁰⁵

In Situ Neutron Reflectivity Measurements of Deuterium Absorption in Pd Films

B. J. Heuser¹⁹⁵, A. Munter¹⁰⁵, N. Barber¹⁹⁵, J. A. Dura¹⁰⁵, and C. F. Majkrzak¹⁰⁵

Magnetic Cluster Sizes in Thin Film Magnetic Recording Disks

M. Toney⁵⁵, S. M. Choi^{199, 105}, and C. J. Glinka¹⁰⁵

Magnetism in Layered Manganates

M. A. Green¹⁴⁷

Measurement and Modeling of Residual Stresses in Multi-Pass Weldments

T. Gnäupel-Herold^{199, 105}, H. J. Prask¹⁰⁵, R. Lloyd⁵⁶, and W. Reuter⁵⁶

Microstructure of Alkali Activated Amorphous Binders

A. J. Allen¹⁰⁹ and J. Phair²¹⁷

Microstructure Evolution of Fly Ash Blended Cements

A. J. Allen¹⁰⁹ and R. A. Livingston³⁹, and W. Bumrongiaroen³⁹

Morphological and Kinetic Study of Early Calcium-Silicate-Hydrate Gel Development During the Hydration of Cement and Tricalcium Silicate

H. M. Jennings¹²², J. J. Thomas¹²², and A. J. Allen¹⁰⁹

Negative Thermal Expansion in AOPo_4 Compounds

A. W. Sleight¹³² and T. Amos¹³²

Neutron Diffraction of Heusler Alloys

V. G. Harris¹⁰¹ and Q. Z. Huang^{199, 105}

Neutron Diffraction of Single-Wall Carbon Nanotubes

P. Papanek^{210, 105}, J. E. Fischer²¹⁰, Z. Benes²¹⁰, D. Colbert¹⁴⁵, and M. Heben¹⁴⁵

Neutron Diffraction Study of Copper(I)-Zirconium(IV) Chlorides

A. Dattelbaum¹²¹, J. Martin¹²¹, and B. A. Reisner¹⁰⁵

A New Double-Focusing Monochromator for "DARTS"

T. Gnäupel-Herold^{199, 105}, H. J. Prask¹⁰⁵, and M. Popovici²⁰⁴

Order-Disorder in CoFe/Carbon Composites

J. H. Scott¹¹⁹, M. E. McHenry¹⁹, Z. Turgut¹⁹, and M. Storch¹⁹

Phase Analysis of Sintered Yttria-Stabilized Zirconia

J. K. Stalick¹⁰⁵, A. Slifka¹¹², and D. Balzar¹¹²

Phase Composition Analysis of Plasma-Sprayed Partially Stabilized Zirconia Coatings by Neutron Powder Diffraction Data

H. Sitepu^{157, 148, 105}, H. J. Prask¹⁰⁵, J. K. Stalick¹⁰⁵, R. Goswami¹⁵⁷, and S. Sampath¹⁵⁷

Polymerized Fullerenes

S. F. Trevino^{9, 105}, N. Beck-Tan⁶, and L. Balogh⁸⁹

Pore Structure in Novel Ultra-Low Dielectric Constant Thin Films

S. Yang⁸² and E. K. Lin¹¹⁵

Residual Stress Determination by Whole Pattern Analysis—Application to Synchrotron HEXRD Measurements on Thermal Sprayed Coatings

T. Gnäupel-Herold^{199, 105}, D. R. Haefner⁴, H. J. Prask¹⁰⁵, and J. Matejicek⁶⁴

Residual Stress Determination for Welds in Navy-Ship Steel

T. Gnäupel-Herold^{199, 105}, H. J. Prask¹⁰⁵, and X. Cheng⁷⁸

Residual Stresses in Thermally-Sprayed Coatings

J. Matejicek⁶⁴, T. Gnäupel-Herold^{199, 105}, P. C. Brand¹⁰⁵, H. J. Prask¹⁰⁵, H. Sitepu^{157, 148, 105}, and S. Sampath¹⁵⁷

Residual Stress in Thermally Sprayed Components for Automotive Applications

J. Matejcek⁶⁴, D. Wilkosz⁴³, T. Gnäupel-Herold^{199, 105}, H. J. Prask¹⁰⁵, H. Sitepu^{157, 148, 105}, and S. Sampath¹⁵⁷

Resolving Cationic Sitings in a new Dielectric Phase:

Bi_{1.5}Zn_{0.5}Ti_{1.5}Nb_{0.5}O₇

B. A. Reisner¹⁰⁵, and J. Chan¹⁰⁹

A Ring/Plug Reference Specimen for Residual Stress Measurements

T. Gnäupel-Herold^{199, 105}, C. S. Hehman^{87, 112}, N. Nguyen^{47, 112}, A. V. Clark¹⁵⁸, and H. J. Prask¹⁰⁵

The Role of Water in Natural Disordered Opal-CT Samples

D. Bish⁸⁰ and G. Guthrie⁸⁰

SANS Characterization of Hydrides in Uranium

S. Spooner¹²⁷, G. Ludtka¹²⁷, and J. G. Barker¹⁰⁵

SANS Characterization of Low Dielectric Constant Polymer Nanoporous Thin Films

W.-L. Wu¹¹⁵, E. K. Lin¹¹⁵, B. Landes³², and G. Barnes³²

SANS of Hardened Cement Paste and Nanoporous Reference Materials at Different Relative Humidities

J. Adolphs¹²² and J. J. Thomas¹²²

SANS From Lithographically Patterned Polymer Thin Films

W.-L. Wu¹¹⁵, E. K. Lin¹¹⁵, N. F. Berk¹⁰⁵, and C. J. Glinka¹⁰⁵

SANS Study of Anisotropic Microstructure in Plasma-Spray Coatings

H. Herman¹⁵⁷, A. Kulkarni¹⁵⁷, A. J. Allen¹⁰⁵, and G. G. Long¹⁰⁵

SANS Study of Deuteride Formation and Decomposition in Palladium

B. J. Heuser¹⁹⁵ and W. C. Chen¹⁹⁵

SANS Study of Fire Retardant Polymer-Clay Nanocomposites

H. J. M. Hanley¹²⁰, C. D. Muzny¹²⁰, and J. Gilman¹²⁷

SANS Study of Nucleation of Aluminum Hydroxide

J. Watson⁹, R. Knott⁹, and M. Y. Lin^{37, 105}

SANS and SAXS Determination of the Dispersion in Organic Solvents of Organically Modified Clays for Polymer/Clay Nanocomposites

D. Ho¹⁹⁹, R. M. Briber¹⁹⁹, and C. J. Glinka¹⁰⁵

SiO₂ Ultra Thin Films Round Robin

J. A. Dura¹⁰⁵, C. F. Majkrzak¹⁰⁵, and J. Ehrstein¹¹⁶

Site Distributions in the Structure of Ba₂Sn₂ZnGa_{10-x}Cr_xO₂₂ (x = 3 and 4)

Q. Z. Huang^{199, 105}, R. Cava¹⁴⁰, I. S. Hagemann¹⁴⁰, X. P. A. Gao⁸², and A. P. Ramirez⁸²

Size Distribution of Titania Particles in Coatings

L.-P. Sung¹⁰⁸ and D. Ho^{199, 105}

Small-Angle Magnetic Scattering From Nanocrystalline Cobalt

J. Weismüller¹⁷⁴, R. D. Shull¹⁰⁹, R. McMichael¹⁰⁹, U. Erb¹⁴², and J. G. Barker¹⁰⁵

Solute Effects on Membrane Thickness in DOPG and DOPC

J. Pencer¹⁹⁴ and R. Hallett¹⁹⁴

Structural Distortions in the NaSr₃MO₆ (M = Ru, Rh) Family

B. A. Reisner¹⁰⁵, A. Prieto¹⁷⁸, and A. Stacy¹⁷⁸

Structural Distortions in Titanites

B. A. Reisner¹⁰⁵ and D. Xirouchakis⁹³

Structural Investigations of ETS-4 Microporous Molecular Sieves

M. Tsapatsis²⁰¹, H. Hillhouse²⁰¹, R. Jacobinas³⁸, and B. Toby¹⁰⁵

Structural Ordering in Erbium Doped Bi₂O₃

B. A. Reisner¹⁰⁵, E. Wachsman¹⁹¹, T. J. Udovic¹⁰⁵, and D. A. Neumann¹⁰⁵

Structural Refinement of Mixed-Metal Vanadium Phosphates

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Structural Studies on High Dielectric Materials

R. Harlow³³ and M. Subramanian³³

Structural Study of Sr₄Nb₂O₉ Compound

I. Levin¹⁰⁹, J. Chan¹⁰⁹, and T. Vanderah¹⁰⁹

Structural Studies of Strontium Niobium Oxides

W. Wong-Ng¹⁰⁹, W. Greenwood¹⁹⁹, and B. H. Toby¹⁰⁵

Structure of Barium Titanate Thin Films on Silicon

C. Bouldin¹⁰⁹, B. Revel¹⁰⁹, and J. A. Borchers¹⁰⁵

Structure, Cation Ordering and Magnetism in Manganate Spinels

M. A. Green¹⁴⁷ and D. A. Neumann¹⁰⁵

Structure of Ca₂AlNbO₆ and CaTiO₃ Compounds

I. Levin¹⁰⁹, J. Chan¹⁰⁹, and T. Vanderah¹⁰⁹

Structure Determination of (Ca, Sr)₂(Rhr)₂D₅ by Powder Neutron Diffraction

R. O. Moyer¹⁷¹ and B. H. Toby¹⁰⁵

Structure Determination of Framework Materials with the RHO Topology

B. A. Reisner¹⁰⁵

Structure Determination of La_{0.78}Sr_{0.22}RuO₃

Q. Z. Huang^{199, 105}, I. Natali Sora¹⁷³, A. Santoro¹⁰⁵, and F. T. Vanderah¹⁰⁹

Structure of the Layered Cobalt Oxochlorides Sr₃Co₂O₅Cl₂ and Sr₂Co₃Cl

Q. Z. Huang^{199, 105}, N. McGlathlin¹⁴⁰, T. He¹⁴⁰, and R. J. Cava¹⁴⁰

Structure of the n=2 and n=∞ Member of the Ruddlesden-Popper Series, Sr_{n+1}Sn_nO_{3n+1}

M. A. Green¹⁴⁷, K. Prassides²¹⁶, P. Day¹⁴⁷, and D. A. Neumann¹⁰⁵

Structure and Oxygen Disorder in Sr_{1.9}Nd_{1.1}Cu₂O_x

Q. Z. Huang^{199, 105} and W. Wong-Ng¹⁰⁹

Structure of Porous Manganese Oxides

M. A. Green¹⁴⁷, D. Arnold¹⁴⁷, and A. Lappas¹⁴⁷

Structure of Porous Silica Thin Films

W.-L. Wu¹¹⁵ and E. K. Lin¹¹⁵

Structure Refinements of Alumo- and Gallo-Germanates Using Neutron Scattering Techniques

S. Park¹⁵⁷, J. B. Parise¹⁵⁷, and B. H. Toby¹⁰⁵

Structure Refinement of a Ferromagnetic Vanadium(III) Sulfate

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Structure of 75.25:24.75 CaO-Nb₂O₅

J. Chan¹⁰⁹, I. Levin¹⁰⁹, R. Roth¹⁰⁹, T. Vanderah¹⁰⁹, and B. A. Reisner¹⁰⁵

Structure of Sr_{1.875}Dy_{1.125}Cu₂O_x

Q. Z. Huang^{199, 105} and W. Wong-Ng¹⁰⁹

Structures of Ba_{0.8}Sr_{0.2}CoO_y Compounds

Q. Z. Huang^{199, 105} and R. J. Cava¹⁴⁰

Studies of Charge, Spin and Orbital Ordering in the System

Bi_{1-x}Ca_xMnO₃

P. Woodward¹³², J. Goldberger¹³² and P. N. Santosh¹³²

Synthesis, Structure and Electronic Properties of LaCa₂Mn₂O₇

M. A. Green¹⁴⁷ and D. A. Neumann¹⁰⁵

Thermal Expansion of Alpha SiC From 15 to 298K

R. Reeber^{121, 7}, K. Wang¹²¹, and B. H. Toby¹⁰⁵

Thermal Expansion of HgSe

R. Reeber^{121, 7} and K. Wang¹²¹

Thermal Expansion of II-VI Semiconductors

R. Reeber^{121, 7} and K. Wang¹²¹

Texture Characterization in X-ray and Neutron Powder Diffraction Data Using the Generalized Spherical-Harmonic

H. Sitepu^{157, 105, 148}, H. J. Prask¹⁰⁵, and M. D. Vaudin¹⁰⁹

Texture Determination of (CF₂)_n Films Using Neutron Diffraction

H. Sitepu^{157, 105, 148}, T. Gnäupel-Herold^{199, 105}, J. D. Barnes¹¹⁵, and H. J. Prask¹⁰⁵

Texture Determination of NAFION Using Neutron Diffraction

H. Sitepu^{157, 105, 148}, T. Gnäupel-Herold^{199, 105}, S. F. Trevino^{9, 105}, and H. J. Prask¹⁰⁵

Texture in Plasma-Sprayed Coatings

H. Sitepu^{157, 105, 148}, T. Gnäupel-Herold^{199, 105}, S. Sampath¹⁵⁷, and H. J. Prask¹⁰⁵

Texture and Residual Stresses in Hydroformed Aluminum Tubing

T. Gnäupel-Herold^{199, 105}, H. J. Prask¹⁰⁵, and K. N. Shah³

POLYMERS

Aggregation of Fullerene-Based Star-Ionomers

T.-L. Lin¹⁰⁰, J. U-Ser¹⁰⁰, and L. Wen Jiun¹⁰⁰

Behavior of Polymer Chains in Porous Media

M. P. Nieh¹³⁷, S. K. Kumar¹³⁷, R. M. Briber¹⁹⁹, and L.-T. Ho^{199, 105}

Chair Dimensions of Captured Micelle Star Polymers

L. Fetters³⁷, M. Xenidou³⁷, M. Y. Lin^{37, 105}, and N. Balsara¹⁸⁴

Characterization of Dye Distribution in Polymer Thin Films

C. White¹¹⁵, E. K. Lin¹¹⁵, and W.-L. Wu¹¹⁵

Characterization of Organically Modified Clays

L.-T. Ho^{199, 105}, R. M. Briber¹⁹⁹, and C. J. Glinka¹⁰⁵

Compatibility of Polyelastomers

D. Peiffer³⁷, M. Y. Lin^{37, 105}, and Y. Zhang¹⁵⁷

Critical Neutron Reflection Tests of Polymer Interdiffusion Dynamics

R. P. Wool¹⁹⁰, K. A. Welp¹⁹⁰, and W. Dozier¹⁹⁰

Dendrimer Like Vesicles

S. F. Trevino^{9, 105}

Dynamics of Polymer Interdiffusion

S. K. Satija¹⁰⁵

Effects of Clay on the Phase Behavior of Polystyrene/PVME Blends

R. Krishnamoorti¹⁹⁴, K. Yurekli¹⁹⁴, and A. Karim¹¹⁵

Effects of Substrate Interactions on the Ordering of Block Copolymer Films

E. Huang²⁰¹, J. DeRouchey²⁰¹, and T. P. Russell²⁰¹

Effects of Supercritical CO₂ on the Phase Behavior of Block Copolymer Melts

J. Watkins²⁰¹, M. Pollard²⁰¹, G. Brown²⁰¹, S. Kumar¹³⁷, and T. P. Russell²⁰¹

Electric Field-Induced Orientation of Diblock Copolymers in Thin Films

J. DeRouchey²⁰¹ and T. P. Russell²⁰¹

Hybrid Nanostructures With Hydrophobically Modified Dendrimers

F. Groehn¹¹⁵ and B. J. Bauer¹¹⁵

Inelastic Neutron Scattering From Filled Elastomers

A. I. Nakatani¹¹⁵, R. D. Ivkov¹⁰⁵, P. Papanek^{210, 105}, H. Yang¹⁵⁴, and M. Gerspacher¹⁵⁴

Interdiffusion of Cross Linked Polymer Films

U. Perez-Salas¹⁹⁹, R. M. Briber¹⁹⁹, M. Rafailovich¹⁵⁷, J. Sokolov¹⁵⁷, and N. F. Berk¹⁰⁵

Investigation of the Concentration Profile Between Cross Linked Thin Films

R. M. Briber¹⁹⁹, U. A. Perez-Salas¹⁹⁹, M. Rafailovich¹⁵⁷, and J. Sokolov¹⁵⁷

In Situ Study of Molecular Conformation in Elastomeric Polypropylene in Uniaxial Extension

A. Gast¹⁵⁶ and J. Pople¹⁵⁶

Liquid Crystal Polymers in a Magnetic Field

M. Dadmun²¹⁸, W. Burghardt¹²⁴, and N. Vaish⁴

Low Energy Excitations in Deuterated Polystyrene

R. M. Dimeo¹⁰⁵ and J. F. Douglas¹¹⁵

Melt Blended Polymer-Clay Nanocomposites

H. King³⁷, A. Herhold³⁷, and M. Y. Lin^{37, 105}

Membrane Mediated Polymer Interdiffusion

H. Gruell¹¹⁵, A. Esker¹¹⁵, and C. C. Han¹¹⁵

Microstructure and Properties of Hyperbranched Polymers

N. Wagner¹⁹⁰ and Y. Kim³⁴

Morphological Study of Comb Copolymer Pervaporation Membranes

A. Mayes⁸³, A. Akthakul⁸³, and Y.-Y. Won⁸³

Multi-Dendrimer Nanostructures

F. Groehn¹¹⁵, E. Amis¹¹⁵, and B. J. Bauer¹¹⁵

Neutron Reflectivity From the Monolayers of SAN Random Copolymers

E. Kim⁵³, H. Kim⁷⁷, K. Char¹⁵³, and S.-H. Lee^{153, 105}

Neutron Studies of Polymer Dynamics in Intercalated Polymer-Clay Nanocomposites

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Order-Disorder Transition in Highly Asymmetric Block Copolymers

T. Lodge²⁰³, K. Hanley²⁰³, and X. Wang²⁰³

Phase Behavior of Confined Polymer Films

S. K. Kumar¹³⁷, R. Jones¹³⁷, L.-T. Ho^{199, 105}, and R. Briber¹⁹⁹

Phase Behavior of Multi-Component Polymer Systems in Compressible Solvents

J. Watkins²⁰¹, G. Brown²⁰¹, V. RamachandraRao²⁰¹, B. Vogt²⁰¹, and T. P. Russell²⁰¹

Phase Behavior of Pentablock Copolymers

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Phase Separation in Polyolefin Blends

M. Modi¹⁹⁴ and R. Krishnamoorti¹⁹⁴

Phase Transitions in Multicomponent Polymer Blends

N. Balsara¹⁸⁴ and J. H. Lee¹⁶

Polyethylene/Polymethylene Blends: Wetting and Phase Transitions

Y. Akpalu¹¹⁵ and A. Karim¹¹⁵

Polymer Brushes Under Shear

R. D. Ivkov¹⁰⁵, P. D. Butler^{105, 127}, and S. K. Satija¹⁰⁵

Polymer Interdiffusion Near the Polymer/Solid Interface

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Polymer Liquid-Crystal Ordering at an Interface

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Polymer Supercritical Fluid Solutions

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Polyolefin Polymer Blend Tie Chain Structures

D. Lohse³⁷, R. Garner³⁷, and M. Xenidou³⁷

Pressure Dependence of Phase Behavior in Styrene/N-alkyl Methacrylate Block Copolymers

A.-V. Ruzette⁸³, P. Banerjee⁸³, and A. Mayes⁸³

Pressure Effects on the Aggregation of Ionomers

D. Perahia²⁵, T. Hill²⁵ and X. Jiao²⁵

SANS Investigations on a New Class of Nylon-6 Polymers

M. Kreitschmann⁴⁴, W. Pyckhout-Hintzen⁴⁴, and D. Richter⁴⁴

SANS Study of Ionomer Blends

R. Tucker¹⁸⁹, R. Weiss¹⁸⁹, and C. C. Han¹¹⁵

SANS Study of Phase Separation in Model Polymer Networks

B. Viers¹⁸⁷

Shear Induced Polymer Desorption

E. K. Lin¹¹⁵, R. Kolb¹¹⁵, and W.-L. Wu¹¹⁵

Shear-Induced Polymer Melt Desorption From an Attractive Solid Surface

E. K. Lin¹¹⁵, D. J. Pochan¹⁹⁰, W.-L. Wu¹¹⁵, S. K. Satija¹⁰⁵, and R. Kolb³⁷

Small Angle Neutron Scattering of Water Dispersable Arborescent Graft Copolymers

S. Yun¹⁹⁹, R. M. Briber¹⁹⁹, M. Gauthier²²⁵, and B. J. Bauer¹¹⁵

Solution Properties of Dendrimer-Like Star Polymers

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Solvent Vapor Induced Swelling of a Polymer Brush

S. K. Satija¹⁰⁵, R. D. Ivkov¹⁰⁵, P. D. Gallagher¹⁰⁵, and J. A. Dura¹⁰⁵

Spinodal Decomposition in PS/PI Blends

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Strain-Induced Interfacial Fracture Between Epoxy and Silicon Oxide

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Strained Polymer Networks

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The Structure of Associative Polymers at Rest and Under Shear

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Structure of Filled Elastomer Thin Films

Y. Zuang¹⁵⁷, B. Tan¹⁵⁷, M. Rafailovich¹⁵⁷, J. Sokolov¹⁵⁷, and M. Y. Lin^{37, 105}

Structure of Fluorosilicone Networks

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Structure of Nafion in Various Solvents

S. F. Trevino^{9, 105}, S. Young⁶, and N. Beck-Tan⁶

Surface Segregation in Binary Blends of Topologically Distinct Polymers

M. D. Foster¹⁷⁶, C. C. Greenberg¹⁷⁶, and D. M. Teale¹⁷⁶

Structure and Aggregation Kinetics of Asphaltenes

T. Mason³⁷, M. Y. Lin^{37, 105}, and E. Sirota³⁷

Structure of Adsorbed Polyelectrolyte Multilayer Thin Films

C. Barrett⁸³ and A. M. Mayes⁸³

Structure and Morphology of Semicrystalline Polymer Thin Films

D. J. Pochan¹⁹⁰, E. K. Lin¹¹⁵, W.-L. Wu¹¹⁵, S. K. Satija¹⁰⁵, C. F. Majkrzak¹⁰⁵, and R. Kolb³⁷

Study of Thermodynamics in Star and Linear Polymers

M. Foster¹⁷⁶ and T. Zook¹⁷⁶

Thermal Expansion and Glass Transition Behavior of Polymer Films: Effect of the Free Surface and Confinement Between Non-Interacting Surfaces

D. J. Pochan¹⁹⁰, E. K. Lin¹¹⁵, W.-L. Wu¹¹⁵, S. K. Satija¹⁰⁵, and S. Z. D. Cheng¹⁷⁶

Thermal Expansion and Glass Transition of Thin Polymer Films Sandwiched Between Polymer Layers

D. J. Pochan¹⁹⁰, E. K. Lin¹¹⁵, and W.-L. Wu¹¹⁵

COMPLEX FLUIDS

Effects of Alcohols and Salts on the Structure of Oil-in-Water Microemulsions

J. Lettow⁸³, J. Ying⁸³, and C. J. Glinka¹⁰⁵

Effect of Shear Combined with a Proximate Surface on Surfactant Sponge Phases and the Sponge to Lamellar Transition

W. A. Hamilton¹²⁷, P. D. Butler^{105, 127}, G. Warr²¹⁷, and L. Porcar¹²⁷

Electrostatic and Counterion-Specific Effects on Micelle Morphology Probed with SANS

L. J. Magid²¹⁸, P. D. Butler^{105, 127}, Z. Han²¹⁸, and X. Xu²¹⁸

Field Driven Phase Transitions in Monolayers and Bilayers of Amphiphiles at Electrode Surfaces

J. Lipkowski¹⁹³, J. Majewski¹⁹⁰, and G. Smith⁸⁰

Interactions of Charged Polymerized Rod-Like Micelles With Oppositely Charged Surfaces

S. M. Choi^{199, 105} and S. R. Kline¹⁰⁵

Influence of Counterion Valence on Domain Size of Polyelectrolyte Solution

Y. Zhang¹¹⁵ and E. Amis¹¹⁵

Magnetic Alignment of Discotic Liquid Crystals

B. Pate⁵⁸ and S. M. Choi^{199, 105}

Microemulsion Structure at an Interface

G. Warr²¹⁷, J. Schulz²¹⁷, P. D. Butler^{105, 127}, and W. A. Hamilton¹²⁷

Microstructure of Alkylpolyglucoside Micelles and Microemulsions

L. D. Ryan¹⁹⁰, D. Ianspetro¹⁹⁰, C. McKelvey¹⁹⁰, J. Silas¹⁹⁰, and E. W. Kaler¹⁹⁰

Octane Wetting of an Air/Water Interface

S. Satija¹⁰⁵ and R. D. Ivkov¹⁰⁵

Phase Transitions in Ferrofluids

W.-L. Lou⁴¹, M. Y. Lin^{37, 105}, D. C. Dender¹⁰⁵, and J. W. Lynn¹⁰⁵

Poiseuille-Flow-Induced Changes in the Structure of Surfactant Micelles

L. Walker¹⁹, B. Poore¹⁹, M. Truong¹⁹, and Y. Christanti¹⁹

Polymer, Block Copolymer and Clay Solutions Under Shear

G. Schmidt¹¹⁵, C. C. Han¹¹⁵, and P. D. Butler^{105, 127}

Polymerization of Rod-Like Micelles

S. Svenson¹⁴⁰, R. Prud'homme¹⁴⁰, and P. Peiffer³⁷

Pressure-Induced Swelling of Polymer Micelles in Supercritical Fluids

M. McHugh²²⁷, T. diNoia⁷¹, J. vanZanten⁷¹, C. Kirby⁷¹, T. Kermis⁷¹, and S. Conroy⁷¹

SANS Determination of the Persistence Length in Rod-Like Micelles

L. J. Magid²¹⁸, P. D. Butler^{105, 127}, and Z. Li²¹⁸

SANS Determination of the Structure of Vitrified Microemulsions

G. Warr²¹⁶, P. R. Harrowell²¹⁷, A. Widmer-Cooper²¹⁷, and P. D. Butler^{105, 127}

SANS From Nanodroplet Aerosols

B. Wyslouzil²³¹, C. Heath²³¹, K. Strelitzky²³¹, G. Wilemski²⁰⁵, and R. Strey¹⁸⁸

SANS and Reflectivity Studies of Complex Polymer Mixtures

R. Briber¹⁹⁹, B. J. Bauer¹¹⁵, and M. Gauthier²²⁵

Solution Structure of Novel Polymerizable Surfactants

S. R. Kline¹⁰⁵

Structure and Aggregation Behavior of Aqueous Solutions of Fulvic Acid

M. Diallo¹⁸ and C. J. Glinka¹⁰⁵

Structure and Aggregation of Soot in Flowing Motor Oil

M. Y. Lin³⁷, M. Francisco³⁷, and E. Sirota³⁷

Structure of Dendritic Diblock Copolymer Langmuir Films

P. Hammond⁸³ and J. Iyer⁸³

Structure of Wax in Solution

E. Sirota³⁷ and M. Y. Lin^{37, 105}

Vesicle and Micelle Formation of Block Polypeptides

D. J. Pochan¹⁹⁰ and T. Deming¹⁸⁴

CONDENSED MATTER PHYSICS

Anomaly in the Magnetic Phase Diagram of $U_{1-x}Y_xPd_2Al_3$

T. M. Kelley¹⁸¹, W. P. Beyermann¹⁸¹, R. A. Robinson⁸⁰, J. W. Lynn¹⁰⁵, E. J. Freeman¹⁸², E. D. Bauer¹⁸², and M. B. Maple¹⁸²

Antiferromagnetic Ordering of Composite Spin Degrees of Freedom in $La_4Cu_3MoO_{12}$

M. Azuma⁷⁶, C. Broholm^{71, 105}, and Y. Qiu⁷¹

Antiferromagnetic Structure Determination: Exchange-Based MnPd-Based Thin Films

J. A. Borchers¹⁰⁵, R. F. Farrow⁵⁵, and M. Toney⁵⁵

Antiferromagnetic Structure Determination in NiO Nanoparticles

R. Kodama¹⁰¹ and J. A. Borchers¹⁰⁵

Asymmetric Magnetization Reversal in Positive Exchange Bias Hysteresis Loops

M. Fitzsimmons⁸⁰, A. Hoffman⁸⁰, I. K. Schuler¹⁸², and C. Leighton¹⁸²

Charge, Orbital Magnetic Ordering and Two-Phase Coexistence in $La_{1/2}Ca_{1/2}MnO_3$

Q. Z. Huang^{199, 105}, J. W. Lynn¹⁰⁵, V. Smolyaninova¹⁹⁹, K. Ghosh¹⁹⁹, R. L. Greene¹⁹⁹, D. C. Dender¹⁰⁵, R. W. Erwin¹⁰⁵, and A. Santoro¹⁰⁵

Critical Exponent in Equilibrium $Fe_{.81}Zn_{.19}F_2$ Thin Film Random Field System

D. Belanger¹⁸⁵, R. Erwin¹⁰⁵, D. Lederman²³⁰

Crystal and Magnetic Structures of FeOCl

W.-H. Li⁹⁴, S. Y. Wu⁹⁴, C. G. Wu⁹⁴, and J. W. Lynn¹⁰⁵

Crystal and Magnetic Structures of La_3RuO_7 , $La_7Ru_8O_{26}$ and $La_5Ru_2O_{12}$

Q. Z. Huang^{199, 105}, R. Cava¹⁴⁰, R. W. Erwin¹⁰⁵, and J. W. Lynn¹⁰⁵

Crystal and Magnetic Structures of $PrBa_2Cu_4O_8$

W.-H. Li⁹⁴, S. Y. Wu⁹⁴, and J. W. Lynn¹⁰⁵

Crystal and Magnetic Structures of $Sr_3Ru_2O_7$ and $Sr_4Ru_3O_{10}$

R. L. Harlow³³, M. K. Crawford³³, J. W. Lynn¹⁰⁵, Q. Z. Huang^{199, 105}, S. Skanthakumar⁴, and G. Cao⁴¹

Crystal and Magnetic Structures of $Sr_4Fe_2CO_9$

Q. Z. Huang^{199, 105}, R. Cava¹⁴⁰, R. W. Erwin¹⁰⁵, and J. W. Lynn¹⁰⁵

Crystal and Magnetic Structures of $TbBaCo_2O_6$

Q. Z. Huang^{199, 105}, I. Troyanchuk¹², and J. W. Lynn¹⁰⁵

Crystal and Magnetic Structures of $ZnCr_{1.4}Ga_{0.6}O_4$

S.-H. Lee^{199, 105}, W. Ratcliffe¹⁵⁰, T. H. Kim¹⁵⁰, and S.-W. Cheong^{150, 82}

Crystal Structure and Magnetic Ordering in $CoMoO_3$

Q. Z. Huang^{199, 105}, J. W. Lynn¹⁰⁵, R. W. Erwin¹⁰⁵, and M. Crawford³³

Crystal Structure and Magnetic Ordering in the Perovskite

SrRu_{0.33}Mn_{0.67}O₃

Q. Z. Huang^{199, 105} and R. J. Cava¹⁴⁰

Crystal Structure and Magnetic Properties of Tb₃(Fe_{1-x}Co_x)_{27.5}Ti_{1.5} Alloy

V. G. Harris¹⁰¹ and Q. Z. Huang^{199, 105}

Crystallographic and Magnetic Structure of a Series of Lanthanide Copper Oxides: LnCu₂O₄

B. A. Reisner^{105, 157}, A. Stacy¹⁷⁸, and J. Luce¹⁷⁸

Crystallographic and Magnetic Structure of Tb₂Ni₃Si₅

F. Bourdarot^{27, 105}, J. W. Lynn¹⁰⁵, and L. Gupta¹⁶⁰

Crystallographic Study of La_{0.67}Mg_{0.33}MnO₃

C. P. Adams^{199, 105}, J. W. Lynn¹⁰⁵, R. G. Williams¹⁹⁸, and G. M. Zhao¹⁹⁹

Density of States in Isotope Substituted La_{5/10}Ca_{3/8}MnO₃

C. A. Adams^{199, 105}, J. W. Lynn¹⁰⁵, S.-W. Cheong^{150, 82}, W. Ratcliffe¹⁵⁰, and L. Young¹⁵⁰

Determination of the Dimensionality of the Gapped Spin-1/2 System in CuHfCl

M. Stone⁷¹, D. H. Reich⁷¹, and C. Broholm^{71, 105}

Diffuse Scattering From Nano-Polar Regions in Relaxor Ferroelectric K_{1-x}Li_xTaO₃

G. Yong⁷⁸, R. W. Erwin¹⁰⁵, and J. Toulouse⁷⁸

Dynamics of the Relaxor PMN

P. M. Gehring¹⁰⁵, G. Shirane¹⁵, and S. B. Vakhrushev⁶⁹

Effect of Superconductivity on the Lattice Dynamics of Ba_{0.6}K_{0.4}BiO₃

Y. S. Lee¹⁰⁵, C. P. Adams^{199, 105}, J. W. Lynn¹⁰⁵, and S. N. Barilo¹²

Effects of H on Magnetic Coupling in FeV Superlattices

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Field Dependence of Magnetic Ordering in a System of Weakly Coupled Antiferromagnetic Spin-1/2

Y. Chen⁷¹, D. H. Reich⁷¹, and C. Broholm^{71, 105}

Field Induced Magnetic Order in the Antiferromagnetic Spin-1 Chain NDMAP

Y. Chen⁷¹, Z. Honda⁶², A. Zheludev¹⁵, C. Broholm^{71, 105}, K. Katsumata⁶², and S. M. Shapiro¹⁵

Field Induced Magnetic Order in Spin Ice Dy₂Ti₂O₇

Y. Qiu⁷¹, I. Hagemann¹⁴⁰, R. J. Cava¹⁴⁰, and C. Broholm^{71, 105}

Field Induced Ordering in Spin Ice Dy₂Ti₂O₇

I. Hagemann¹⁴⁰, R. J. Cava¹⁴⁰, C. Broholm^{71, 105}, and Y. Qiu⁷¹

Field and Temperature Dependent Neutron Scattering Study of Mn₁₂ Magnetic Molecules

T. Yildirim¹⁰⁵ and S.-H. Lee^{199, 105}

First-Principles Investigation of Structural and Electronic Properties of Solid Cubane and Its Derivatives

T. Yildirim¹⁰⁵, S. Ciraci¹⁴, and C. Kilic¹⁴

Flux Lattice Structure in Nb and BaKBiO₃

X. Ling¹⁷, D. C. Dender^{105, 199}, J. W. Lynn¹⁰⁵, S. M. Choi^{199, 105}, and S. Park¹⁷

Gap in the Excitation Spectrum of the Frustrated Two Dimensional Spin-1/2 Magnet PHCC

M. Stone⁷¹, D. H. Reich⁷¹, C. Broholm^{71, 105}, and I. Zaliznyak¹⁵

Ground-State Selection in FCC and BCT Antiferromagnets Due to Quantum Disorder

T. Yildirim¹⁰⁵, A. B. Harris²¹⁰, and E. F. Shender¹⁷⁸

Incommensurate and Commensurate Magnetic Structures in the Magnetoresistive R₂Ni₃Si₅ Materials

F. Bourdarot^{27, 105}, S. Skanthakumar⁴, J. W. Lynn¹⁰⁵, and L. C. Gupta¹⁶⁰

Incommensurate Magnetic Structure of CeRhIn₅

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Incommensurate Spin Fluctuations and Structural Transitions in Excess Oxygen-Doped La₂CuO_{4+y}

Y. S. Lee¹⁰⁵, R. J. Birgeneau⁸³, B. Khaykovich⁸³, M. A. Kastner⁸³, and R. W. Erwin¹⁰⁵

Influence of Interface Structure on the Magnetic Polarizability of a Pd-Co Alloy Overlayer in Close Proximity to CoPt₃

M. Fitzsimmons⁸⁰, F. Hellman¹⁸², B. Maran¹⁸², and A. Shapiro¹⁸²

Interfacial Magnetic Structure in Spin-Dependent Tunnel Junctions

K. V. O'Donovan¹⁰⁵, J. A. Borchers¹⁰⁵, and S. S. Parkin⁵⁵

Interlayer Spin Coupling in FeMn-Based Spin Valves

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Long-Range Magnetic Order in Hybrid Co/Cu Multilayers

J. A. Borchers¹⁰⁵, W. Pratt⁹⁰, and J. Bass⁹⁰

Local Spin Resonance in a Frustrated Antiferromagnetic ZnCr₂O₄

S.-H. Lee^{199, 105}, C. Broholm^{71, 105}, T. H. Kim¹⁵⁰, W. Ratcliffe¹⁵⁰, and S.-W. Cheong^{150, 82}

Low Energy Magnetic Correlations in the Quantum Critical Spin System CeNi₂Ge₂

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Magnetic Correlations in Discontinuous Co-SiO₂ Thin Films and Multilayers

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Magnetic Correlations and Lattice Distortions in the Bilayer Manganite La_{1.2}Sr_{1.8}Mn₂O₇

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Magnetic Correlations in Li-Doped La₂CuO₄

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Magnetic Correlations in a Geometrically Frustrated Magnet ZnV₂O₄

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Magnetic Correlations in the Heavy Fermion System LiV₂O₄

S.-H. Lee^{199, 105}, C. Broholm^{71, 105}, and Y. Ueda¹⁶⁹

Magnetic Correlations in a System of Coupled Spin-1/2 Dimers CuHfCl

M. Stone⁷¹, Y. Chen⁷¹, D. Reich⁷¹, and C. Broholm^{71, 105}

Magnetic and Crystal Structure Phase Transitions in R_{1-x}Ba_xCoO_{3-y} (R = Nd, Gd)

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Magnetic and Crystal Structures of CaRuO₃

J. W. Lynn¹⁰⁵ and I. Felner¹⁴³

Magnetic and Crystal Structures of the New Heavy Fermion Compound CeRhSn

E. Granado¹⁸², J. W. Lynn¹⁰⁵, E. D. Bauer¹⁸², A. Zapf¹⁸², and M. B. Maple¹⁸²

Magnetic Domain Structure of Thermally Treated Nanocrystalline Ni₃Fe

H. Frase¹⁸ and L. Robertson¹²⁷

Magnetic Excitations in Alternating 1D Magnetic Chains

A. B. Harris²¹⁰ and T. Yildirim¹⁰⁵

Magnetic Excitations in Mn-12 and Fe-8 Magnetic Clusters

T. Yildirim¹⁰⁵ and S. H. Lee^{199, 105}

Magnetic Order and Crystal Field Effects in RNiBC

F. Bourdarot^{27, 105}, J. W. Lynn¹⁰⁵, Q. Z. Huang^{199, 105}, D. R. Sanchez²², M. B. Fontes²², J. C. Trochez²², and E. Baggio-Saitovitch²²

Magnetic Order in EuMn₂P

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Magnetic Order in the Ferromagnetic Superconductors RuSr₂160GdCu₂O₈

J. W. Lynn¹⁰⁵, B. Keimer^{84, 140}, C. Ulich¹⁴⁰, C. Bernhard¹⁴⁰, and J. L. Tallon⁵⁸

Magnetic Order in Pr-Containing Cuprate Superconductors

W.-H. Li⁹⁴, K. C. Lee⁹⁴, H. C. Ku¹⁰⁰, and J. W. Lynn¹⁰⁵

Magnetic Order, Structure and Spin Dynamics of (La_{1-x}Ca_x)MnO₃

J. W. Lynn¹⁰⁵, R. W. Erwin¹⁰⁵, J. A. Borchers¹⁰⁵, Q. Z. Huang^{199, 105}, A. Santoro¹⁰⁵, K. Ghosh¹⁹⁹, and R. L. Greene¹⁹⁹

Magnetic Order in the Superconductor RNi₂B₂C

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Magnetic Ordering in Co₂SnO₄

M. K. Crawford³³, R. B. Flippin³³, R. L. Harlow³³, J. Hormadaly³³, J. W. Lynn¹⁰⁵, and Q. Z. Huang^{199, 105}

Magnetic Ordering of Exchange-Biased Fe₃O₄/NiO Superlattices

J. A. Borchers¹⁰⁵, R. W. Erwin¹⁰⁵, Y. Ijiri¹²⁸, D. M. Y. Lind⁴¹, P. G. Ivanov⁴¹, A. Qasba¹⁰⁵, K. V. O'Donovan¹⁰⁵

Magnetic Ordering in the Frustrated Heavy Fermion System UNi₄B

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Magnetic Ordering of Mn in Nd_{1-x}Ca_xMnO₃

S. Y. Wu⁹⁴, W.-H. Li⁹⁴, K. C. Lee⁹⁴, J. W. Lynn¹⁰⁵, R. S. Liu⁹⁹, J. B. Wu⁹⁹, and C. Y. Huang^{105, 199}

Magnetic Ordering and Structure of PrBa₂Fe₃O₈

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Magnetic Properties of HoVO₄

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Magnetic Proximity Effect in Pd

A. Hoffmann⁸⁰ and M. Fitzsimmons⁸⁰

Magnetic Structure of Charge Ordered CaFeO₃

E. Moshopoulou¹⁵, D. E. Cox¹⁵, and P. Woodward¹²⁹

Magnetic Structure and Interlayer Correlations in Ferromagnetic Superlattices EuS/Pbs

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The Magnetic Structure of [MnTPP][TCNE] 2PhMe by High-Resolution Neutron Powder Diffraction

C. R. Kmetz-Stevenson¹²⁹, A. J. Epstein¹²⁹, J. S. Miller²²⁰, E. J. Brandon²²⁰, and J. W. Lynn¹⁰⁵

Magnetism of Ferrihydrite Nanoparticles

M. S. Seehra²³⁰, V. Suresh Babu²³⁰, and J. W. Lynn¹⁰⁵

Magnetization of Antiferromagnetically Ordered UCu_{1-x}Pd_x

T. M. Kelley¹⁸¹, W. P. Beyermann¹⁸¹, R. A. Robinson⁸⁰, J. W. Lynn¹⁰⁵, E. J. Freeman¹⁸², E. D. Bauer¹⁸², R. Chau¹⁸², and M. B. Maple¹⁸²

Neutron Coherence Length and Non-Specular Scattering From Diffraction Gratings

C. F. Majkrzak¹⁰⁵ and N. F. Berk¹⁰⁵

Neutron Scattering Study of the Nuclear and Magnetic Structure of RD₃

T. J. Udovic¹⁰⁵, Q. Z. Huang^{199, 105}, J. W. Lynn¹⁰⁵, R. W. Erwin¹⁰⁵, and J. J. Rush¹⁰⁵

Neutron Studies of New Incommensurate Magnetic Correlations Near the Lower Critical Concentration for Stripe Order in La_{1.6-x}Nd_{0.4}Sr_xCuO₄

J. M. Tranquada¹⁵, N. Ichikawa¹⁶⁹, P. M. Gehring¹⁰⁵, and S.-H. Lee^{199, 105}

Observation of a Magnetic Spiral in an Exchange-Spring Magnet

K. V. O'Donovan¹⁰⁵, J. A. Borchers¹⁰⁵, and E. E. Fullerton¹⁰⁵

Oxygen Isotope Effect on the Spin and Lattice Dynamics of**La_{0.8}Ca_{0.2}MnO₃**

C. P. Adams^{199, 105}, Y. S. Lee¹⁰⁵, J. W. Lynn¹⁰⁵, V. Smolyaninova¹⁹⁹, G. M. Zhao¹⁹⁹, R. L. Greene¹⁹⁹, S.-W. Cheong^{150, 82} and W. Ratcliffe¹⁵⁰

Polarized Neutron Diffraction Studies of Magnetic Ordering in Exchange-Biased Fe₃O₄/CoO Superlattices

Y. Ijiri¹²⁸, J. A. Borchers¹⁰⁵, R. W. Erwin¹⁰⁵, S.-H. Lee^{199, 105}, C. F. Majkrzak¹⁰⁵, P. J. van der Zaag¹³⁸, and R. M. Wolf¹³⁸

Polarized Neutron Reflectivity of an Array of Cobalt Dots

S. Adenwalla²⁰⁷ and C. F. Majkrzak¹⁰⁵

Polarized Neutron Scattering Measurements of the Oxygen Moment in (La,Sr)MnO₃

P. M. Gehring¹⁰⁵, G. Shirane¹⁵, H. Hirota¹⁶⁸, and J. W. Lynn¹⁰⁵

Polarized Neutron Studies of Magnetic Interfacial Roughness in EuTe/PbTe Superlattices

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Pr Magnetic Order and Spin Dynamics in the Cuprates

J. W. Lynn¹⁰⁵, N. Rosov¹⁰⁵, S. N. Barilo¹², L. Kurnevitch¹², and A. Zhokhov¹⁴⁹

Pressure Dependence of the Magnetic Order in UGe₂

J. W. Lynn¹⁰⁵, E. J. Freeman¹⁸², and M. B. Maple¹⁸²

Q-Dependence of the Spin Flip Scattering From Exchange Coupling Across Fe-FeF₂ Interfaces Measured With Spin Polarized Neutron Diffraction With Polarization Analysis

M. Fitzsimmons⁸⁰ and I. K. Schuler¹⁸², C. L. Leighton¹⁸², and A. Hoffman⁸⁰

Quantum Percolation on the Square Lattice: Crystal Growth, Neutron Scattering and Monte Carlo

O. P. Vajk¹⁵⁶, M. Greven¹⁵⁶, P. K. Mang¹⁵⁶, and J. W. Lynn¹⁰⁵

Reflectivity Measurements on Spin Valve Structures

D. Sarkisov²¹⁴ and M. Dabaghian²¹⁴

Search for Spin Density Waves in Pb

A. Overhauser¹⁴¹ and J. W. Lynn¹⁰⁵

Self-Assembled Polymer-Like Structures and Effect of Fields in Phase-Separated Magnetic Fluids

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Single-Ion Anisotropy and Crystal Field Effects in R₂CuO₄ (R = Nd, Sm, Pr, ...)

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Spin Correlations in (Nd-Ce)₂CuO₄

P. K. Mang¹⁵⁶, M. Greven¹⁵⁶, and J. W. Lynn¹⁰⁵

Spin Dynamics of CrO₂

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Spin Dynamics of the Mn Ions in La_{1-x}Ba_xMnO₃ and Pr_{1-x}Ba_xMnO₃

J. W. Lynn¹⁰⁵, L. Vasilii-Doloc¹²³, K. Ghosh¹⁹⁹, R. L. Greene¹⁹⁹, and S. Barilo¹²

Spin Dynamics in LaTiO₃

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Spin Dynamics and Charge Ordering in Single Crystal La_{1-x}Ca_xMnO₃

C. P. Adams^{199, 105}, J. W. Lynn¹⁰⁵, and Y. M. Mukovskii⁹²

Spin Dynamics of Strongly Doped La_{1-x}Sr_xMnO₃

L. Vasilii-Doloc¹²³, J. W. Lynn¹⁰⁵, Y. M. Mukovskii⁹², A. A. Arsenov⁹², and D. A. Shulyatev⁹²

Spin Order and Dynamics in Bi₂Sr₂CoO_{6+d}

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Static and Dynamic Properties of Spin and Charge Ordering in La_{2-x}Sr_xNiO₄

S.-H. Lee^{199, 105}, J. M. Tranquada¹⁵, and K. Yamada⁷⁶

Structural Phase Transition and Magnetic Order in Heavy Fermion Compounds Ce₃M with M = Al, In and Sn

W.-H. Li⁹⁴, K. C. Lee⁹⁴, Y. Y. Chen⁸², and J. W. Lynn¹⁰⁵

Structure and Frustrated Magnetism in KFe₃(OD)₆(SO₄)₂

Y. S. Lee^{105, 199}, J. W. Lynn¹⁰⁵, Q. Z. Huang^{199, 105}, B. Toby¹⁰⁵, S.-H. Lee^{105, 199}, D. Grohol⁸³, and D. Nocera⁸³

Structure and Magnetic Order in the A₂BO₄ Spinel (A = (Co, Ru), B = (Zn, Ga, Ge))

Q. Z. Huang^{199, 105}, J. W. Lynn¹⁰⁵, R. W. Erwin¹⁰⁵, M. Crawford³³, R. L. Harlow³³, and E. M. McCarron³³

Structure and Magnetic Order in Sr₂Y_{0.8}Ca_{0.2}Co₂O₆

Q. Z. Huang^{199, 105}, J. W. Lynn¹⁰⁵, R. W. Erwin¹⁰⁵, and R. J. Cava¹⁴⁰

Structure and Magnetic Ordering of Mⁿ[N(CN)₂]₂ (M = Co, Ni, Mn)

J. L. Manson⁴, C. R. Kmetz-Stevenson¹²⁹, Q. Z. Huang^{199, 105}, J. W. Lynn¹⁰⁵, G. Bendele¹⁵⁷, S. Pagola¹⁵⁷, P. W. Stephens¹⁵⁷, L. M. Kiable-Sands¹⁵, A. L. Rheingold¹⁵, A. J. Epstein¹²⁹, and J. S. Miller²²⁰

Structure and Magnetic Properties in the Sr_{1-x}(La_{0.5}Na_{0.5})_xRuO₃ Solid Solution

Q. Z. Huang^{199, 105} and R. J. Cava¹⁴⁰

Structure of YCo_{0.5}Mn_{0.5}O_{3-x}, Tb_{0.5}Ba_{0.5}CoO_x and Nd_{0.5}Ba_{0.5}CoO_x

Q. Z. Huang^{199, 105}, J. W. Lynn¹⁰⁵, R. W. Erwin¹⁰⁵, and I. Troyanchuk¹²

Structure of PZN-PT Under Electric Field

P. M. Gehring¹⁰⁵, G. Shirane¹⁵, K. Hirota¹⁶⁸, S.-E. Park¹³⁷, and T. R. Shnut¹³⁷

Structures of YM₂Cu_{2.85}Re_{0.15}O_{7+x} (M = Ba and Sr) High T_c Superconductors

Q. Z. Huang^{199, 105}, M. Marezio⁶⁶, F. Licci⁶⁶, and A. Santoro¹⁰⁵

Study of Metallic Stripes and Charge Order in Superconducting**La_{1.6-x}Nd_{0.4}Sr_xCuO₄**

N. Ichikawa¹⁶⁹, S. Uchida¹⁶⁹, J. M. Tranquada¹⁵, T. Niemoller⁹², P. M. Gehring¹⁰⁵, S.-H. Lee^{105, 199}, and J. R. Schneider⁵²

Superconductivity in La_{2-x}Sr_xCuO₄

S. Wakimoto¹⁶⁸, S. Ueki¹⁶⁸, K. Hirota¹⁶⁸, K. Yamada¹⁶⁸, Y. Endoh¹⁶⁸, R. J. Birgeneau⁸³, Y. S. Lee⁸³, M. A. Kastner⁸³, G. Shirane¹⁵, S.-H. Lee^{105, 199}, and P. M. Gehring¹⁰⁵

Superconductivity, Magnetic Fluctuations and Magnetic Order in

TbSr₂Cu_{2.69}Mo_{0.3}O₇

W.-H. Li⁹⁴, W. Y. Chuang⁹⁵, Y. Wu⁹⁴, K. C. Lee⁹⁴, J. W. Lynn¹⁰⁵, H. L. Tsay⁹⁸, and H. D. Yang⁹⁸

Surface Spin Ordering in LaFeO₃ Thin Films

J. A. Borchers¹⁰⁵, J. Stohr⁵⁵, and M. Toney⁵⁵

Synthesis, Crystal Structure and Magnetic Order of the Ion

Oxycarbonate Sr₄Fe₂CO₆

K. Yamaura¹⁴⁰, Q. Z. Huang^{199, 105}, J. W. Lynn¹⁰⁵, R. W. Erwin¹⁰⁵, and R. J. Cava¹⁴⁰

Temperature Evolution of the Spin Excitation Spectrum in a Reentrant

Spin Glass Fe_{0.7}Al_{0.3}

W. Bao⁸⁰, S. Shapiro¹⁵, and S.-H. Lee^{199, 105}

Two-Step Short Range Magnetic Order in the Spinel LiMn₂O₄

W.-H. Li⁹⁴, C. C. Yang⁹⁴, H. Y. Wang⁹⁴, S. R. Hwang⁹⁴, K. C. Lee⁹⁴, J. W. Lynn¹⁰⁵, R. S. Liu⁹⁴, and C. H. Chen⁹⁴

Variation in the Structural and Magnetic Properties Induced by La

Doping in Pr(Ba_{1-x}La_x)₂Cu₃O₇

H. Y. Wang⁹⁴, C. H. Chang⁹⁴, S. R. Hwang⁹⁴, W.-H. Li⁹⁴, K. C. Lee⁹⁴, J. W. Lynn¹⁰⁵, H. M. Luo⁹⁴, and H. C. Ku¹⁰⁰

Vortex Lattice and Magnetic Order in ErNi₂BrC

P. Gammel¹⁹³, S. Lopez¹⁹³, D. C. Dender¹⁰⁵, S. M. Choi^{199, 105}, and J. W. Lynn¹⁰⁵

Vortex Lattice Structure in High-T_c Bi-2212

B. Keimer^{140, 84}, T. Fong¹⁴⁰, and J. W. Lynn¹⁰⁵

X-ray Dichroism/Neutron Reflectivity Analysis of In-Plane

Ferromagnetic Domains in Co/Cu

Y. Idzerda¹⁰¹, J. Bass⁹⁰, W. Pratt⁹⁰, J. A. Borchers¹⁰⁵, and K. V. O'Donovan¹⁰⁵

BIOMOLECULAR SCIENCE

Amplitudes of Protein Motion: Resolution of a Discrepancy Between

Neutron Scattering Experiments and MD Simulations

M. Tarek^{200, 105}, G. L. Martyna⁵⁸, and D. J. Tobias¹⁸⁰

Characterization of Polymeric Membrane Mimetic Films Using Neutron

Reflectivity

S. Krueger¹⁰⁵, C. F. Majkrzak¹⁰⁵, C. W. Meuse¹⁰⁷, and E. Chaikof³⁶

Cryopreservation of Proteins

A. M. Tsai¹⁰⁵, C. L. Soles¹¹⁵ and J. Shiloach⁹⁶

Determination of the Location of the Lipid Anchor in Outer Surface

Protein A of *Borrelia burgdorferi* by SANS

D. Schneider¹⁵, C. Lawson¹⁵, and V. Graziano¹⁵

The Dynamics of Fibrinogen and Related Fibrin Gels

R. Nossal⁹⁶, A. M. Tsai¹⁰⁵, and D. Sackett⁹⁶

The Dynamics of Protein Hydration Water: A Quantitative Comparison

of MD Simulations and Neutron Scattering Experiments

M. Tarek^{200, 105} and D. J. Tobias¹⁸⁰

Environmental Dependence of the Dynamics of Protein Hydration

Water

M. Tarek^{200, 105} and D. J. Tobias¹⁸⁰

Gelation of Methylcellulose

C.-I. Huang²⁰³ and T. Lodge²⁰³

Incoherent Scattering From Lipid Bilayers and Bilayers With Channel

Proteins Imbedded

S.-H. Chen⁸³, C. Liao⁸³, T. Weiss¹⁴⁵ and C. M. Brown^{199, 105}

Interaction of the Peptide Penetration with Phospholipid Double

Bilayers

G. Fragneto⁵⁹, E. Bellet-Amalric⁵⁹, F. Graner⁵⁹, and L. Perino⁵⁹

Interfacial Morphologies of Phospholipid Membrane Systems

B. Gaulin⁸⁶, P. Mason²³, and R. Eppard⁸⁶

Internal Organization of Peptide-Nucleic Acid Complexes Derived

From SANS

F. Schwarz²⁰ and S. Krueger¹⁰⁵

Interpretation of Specular and Off-Specular Reflectivity Data From

Patterned Thiahexaethyleneoxide Alkane Surfaces

N. F. Berk¹⁰⁵, C. F. Majkrzak¹⁰⁵, A. Munter¹⁰⁵, J. Woodward¹⁰⁷, C. W. Meuse¹⁰⁷, A. L. Plant¹⁰⁷, and S. Krueger¹⁰⁵

In Situ Measurements of Melittin Insertion Into Hybrid Bilayer

Membranes

S. Krueger¹⁰⁵, C. F. Majkrzak¹⁰⁵, J. A. Dura¹⁰⁵, A. L. Plant¹⁰⁷, and C. W. Meuse¹⁰⁷

Magnetic Field Alignment of Mixed Lipid Discotic Micelles

J. Katsaras²³, R. Prosser⁷⁴, S. Krueger¹⁰⁵, and C. J. Glinka¹⁰⁵

Membrane Active Peptides: Phase Transitions and Supramolecular

Assemblies of Peptides in Membranes

H. W. Huang¹⁴⁵, W. Heller¹⁴⁵, T. Harroun¹⁴⁵, and L. Yang¹⁴⁵

Molecular Dynamics of Solid-State Lysozyme as Affected by Glycerol

and Water

A. M. Tsai¹⁰⁵, D. A. Neumann¹⁰⁵, and L. N. Bell¹⁸

Motion in Alpha-Lactalbumin and Alpha-Lactalbumin Molten Globule

Studied by Quasielastic Neutron Scattering

Z. Bu¹¹⁵, D. A. Neumann¹⁰⁵, and C. C. Han¹¹⁵

Neutron Diffraction Studies of Peptides in Fluid Lipid Bilayers

S. White¹⁸⁰ and K. Hristova¹⁸⁰

Neutron Reflectivity Studies of Protein Adsorption/Desorption on the

Surfaces of Self-Assembled Monolayers

M. D. Foster¹⁷⁶, S. Petrash¹⁷⁶, and C. F. Majkrzak¹⁰⁵

Ordering in Protein/Polelectrolyte Multilayers

J. Rusling¹⁸⁹ and Y. Lvov¹⁰¹

Phase Behavior of Magnetically Alignable, Mixed Lipid 'Bicelles'

M.-P. Nieh¹³⁷, J. Katsaras²³, C. J. Glinka¹⁰⁵, S. Krueger¹⁰⁵, and R. S. Prosser⁷⁴

Potential of Mean Force Between Neurofilaments at Different

Concentrations

S. Krueger¹⁰⁵, M. Paulaitis⁷¹, J. Hoh⁷¹, and S. Kumar¹³⁷

Protein Adsorption at Solid/Liquid Interfaces

J. R. Lu²¹⁵, T. J. Su²¹⁵, and B. Green²¹⁵

Quasielastic Neutron Scattering Study of the Dynamics of Water in

Saccharide Solutions

A. M. Tsai¹⁰⁵, M. Feeney¹⁴⁰, P. G. Debenedetti¹⁴⁰, and D. A. Neumann¹⁰⁵

Rnase-A Dynamics by Time-of-Flight Neutron Scattering: A Case Study

in Protein Dynamics and its Implications for Drug Design, Formulation

and Delivery

A. M. Tsai¹⁰⁵, T. J. Udovic¹⁰⁵, J. R. D. Copley¹⁰⁵, D. A. Neumann¹⁰⁵, J. J. Rush¹⁰⁵, M. Tarek^{200, 105}, D. Tobias¹⁸⁰, and G. Gilliland¹⁰⁷

SANS Study of Catechol Dioxygenases From *Pseudomonas putida* SH1

S.-L. Huang⁹⁴, W.-H. Li⁹⁴, and J. W. Lynn¹⁰⁵

SANS Study of Colloidal Interactions of Proteins

O. Velev¹⁹⁰, P. Hinderliter¹⁹⁰, J. Silas¹⁹⁰, and E. W. Kaler¹⁹⁰

SANS Study of Cyclic-AMP-Dependent Protein Kinase

J. Zhao⁸⁰, J. Trehella⁸⁰, D. Walsh¹⁷⁹, and R. Bruscia¹⁷⁹

SANS Study of the DNA/Flap Endonuclease Complex

J. Trehella⁸⁰, C. Kim⁸⁰, and S. Gallagher⁸⁰

SANS Study of the FerrodoxinTOL Component of Toluene Dioxygenase

From *Pseudomonas putida* F1

S.-L. Huang⁹⁴, D. T. Gibson¹⁹⁷, W.-H. Li⁹⁴, and J. W. Lynn¹⁰⁵

Solution Structure of Cyclic AMP Receptor Protein/DNA Complexes

F. Schwarz²⁰, S. K. Gregurick²⁰⁰, and S. Krueger¹⁰⁵

Structural Investigation of the High Temperature Protonic Conductors

C. Karmonik²¹⁹, Q. Z. Huang^{199, 105}, T. J. Udovic¹⁰⁵, and J. J. Rush¹⁰⁵

Structure of Hybrid Bilayer Membranes by Direct Inversion of Neutron

Reflectivity Data

C. Majkrzak¹⁰⁵, N. F. Berk¹⁰⁵, C. W. Meuse¹⁰⁷, V. Silin¹⁰⁷, A. L. Plant¹⁰⁷, and S. Krueger¹⁰⁵

Structure of Intact Influenza Hemagglutinin Protein Containing the

Viral Membrane Spanning Region

R. Blumenthal⁹⁶, D. Remeta¹⁵⁰, S. Durell⁹⁶, and S. Krueger¹⁰⁵

Structure of Microtubule-Based Cellular Motors Investigated by SANS

R. Mendelson¹⁸³, D. Stone¹⁸³, and R. Hjelm⁸⁰

Temperature Effect on the Structure and Activity of Catechol

2,3-Dioxygenase From *Pseudomonas putida* SH1: A Small Angle

Neutron Scattering Study

S. L. Huang⁹⁴, Y.-C. Hsu⁹⁴, S. Y. Wu⁹⁴, W. H. Li⁹⁴, and J. W. Lynn¹⁰⁵

Vectorially-Oriented Protein Monolayers: Neutron Reflectivity Studies

J. K. Blasie²¹⁰, L. Kneller²¹⁰, E. Nordgren²¹⁰, J. Strzalka²¹⁰, and A. Edwards²¹⁰

A View of the Dynamical Changes in the Molten Globule-Native Folding Step of α -Lactalbumin

Z. Bu¹¹⁵, D. A. Neumann¹⁰⁵, S.-H. Lee^{199, 105}, C. M. Brown^{199, 105}, D. M. Engleman²³³, and C. C. Han¹¹⁵

CHEMICAL PHYSICS OF MATERIALS

A Quasi-Elastic and Inelastic Neutron Scattering Study of Hydrogen in Zeolite

P. E. Sokol¹³⁷, D. Narehood¹³⁷, R. M. Dimeo¹⁰⁵, J. DeWall¹³⁷, and Y. Yoshida¹³⁷

The Boson Peak in Solid-State Lysozyme

A. M. Tsai¹⁰⁵, C. L. Soles¹¹⁵, R. M. Dimeo¹⁰⁵, R. L. Cappelletti¹⁰⁵, and D. A. Neumann¹⁰⁵

Cage Dynamics of ($RSiO_{1.5}$)_n ($R=H, CH_3, C_2H_5$ and $n=8, 10, 12, \dots$)

C. M. Brown^{199, 105}, C. L. Soles¹¹⁵, and J. D. Lichtenhan⁵⁴

Diffusion of H₂ in C₆₀

S. A. FitzGerald¹²⁸, D. Sethna¹²⁸, Z. Chowdhuri^{199, 105}, and D. A. Neumann¹⁰⁵

Diffusion and Structural Relaxation in Viscous Sodium Disilicate

A. Meyer¹⁶³

Dynamics of Arsenic-Selenium Glasses

B. E. Schwickert¹⁷⁸, R. L. Cappelletti¹⁰⁵, and W. A. Kamitakahara¹⁰⁵

Dynamics of Cu[N(CN)₂]₂Pyrazine

C. M. Brown^{199, 105} and J. L. Manson⁴

Dynamics of Filled Polymers

A. I. Nakatani¹¹⁵, R. D. Ivkov¹⁰⁵, P. Papanek^{210, 105}, and K. Kwan³¹

The Dynamics and Glass Transition in Ultra Thin Polymer Films

C. L. Soles¹¹⁵, R. M. Dimeo¹⁰⁵, C. M. Brown^{199, 105}, and W.-L. Wu¹¹⁵

The Dynamics of Hydrogen Bonded Guanidinium Based Materials

A. Pivovar²⁰³, D. A. Neumann¹⁰⁵, T. Yildirim¹⁰⁵, C. M. Brown^{199, 105}, and M. Ward²⁰³

Dynamics of Hydrogen in Laves Phase Hydrides

A. V. Skripov⁸⁸, J. C. Cook^{199, 105}, and T. J. Udovic¹⁰⁵

The Dynamics of Hydrogen in Mesoporous Silica

T. J. Pinnavaia⁹⁰, M. Gutmann⁹⁰, S. J. L. Billinge⁹⁰, C. M. Brown^{199, 105}, and D. A. Neumann¹⁰⁵

The Dynamics of Hydrogen in Single-Walled Nanotubes

C. M. Brown^{199, 105}, T. Yildirim¹⁰⁵, D. A. Neumann¹⁰⁵, M. J. Heben¹⁴⁵, T. Gennett⁹⁷, A. C. Dillon⁹⁷, J. L. Alleman⁹⁷, and J. E. Fischer²¹⁰

Dynamics of Layered Silicates: Intercalated Water

N. Wada¹⁷⁰ and W. A. Kamitakahara¹⁰⁵

Dynamics of Li-Doped Carbon Electrode Materials

P. Papanek^{210, 105}, J. E. Fischer²¹⁰, and W. A. Kamitakahara¹⁰⁵

Dynamics of Methane in Zeolites 4A and 5A

R. Bell¹⁴⁷, M. A. Green¹⁴⁷, and C. M. Brown^{199, 105}

Dynamics of Mn[N(CN)₂]₂pyrazine and its Deuterated Analogue

C. M. Brown^{199, 105}, J. L. Manson⁴, and J. S. Miller²²⁰

Dynamics of Selenium-Arsenic-Bromine Glasses

R. L. Cappelletti¹⁰⁵, and B. E. Schwickert¹⁷⁸

Dynamics of Water Absorbed in Epoxy

C. L. Soles¹¹⁵, R. M. Dimeo¹⁰⁵, and W.-L. Wu¹¹⁵

Dynamics of Water in Zeolites

N. Wada¹⁷⁰ and W. A. Kamitakahara¹⁰⁵

The Effects of Confinement on Tunneling in Methyl Iodide

R. M. Dimeo¹⁰⁵ and D. A. Neumann¹⁰⁵

Effects of Solvent Damping on Side Chain and Backbone Contributions to the Protein Boson Peak

M. Tarek^{200, 105} and D. J. Tobias¹⁸⁰

Evolution of the Structure of the K₂NiF₄ Phases of La_{2-x}Sr_xNiO_{4+δ} With Oxidation State: Octahedral Distortion and Phase Separation (0.2 < x < 1.0)

J. E. Millburn¹³⁴, M. A. Green¹⁴⁷, M. J. Rosseinsky¹³⁴, and D. A. Neumann¹⁰⁵

First-Principles Calculations and Neutron Scattering

T. Yildirim¹⁰⁵ and O. Gulseren^{210, 105}

First-Principles Study of the Structure and Dynamics of C₆H₆, Si₆H₆, and Ge₆H₆ Molecules

C. Kilic¹⁴, T. Yildirim¹⁰⁵, H. Mehrez¹⁴, and S. Ciraci¹⁴

Hydrogen Diffusion in NbC_{0.76}H_{0.19}

A. V. Skripov⁸⁸, J. C. Cook^{199, 105}, and T. J. Udovic¹⁰⁵

Hydrogen Dynamics in K₃MnH₅

G. Auffermann¹⁷⁵, T. J. Udovic¹⁰⁵, J. J. Rush¹⁰⁵, and T. Yildirim¹⁰⁵

Hydrogen Dynamics in ZrBeH_{1.5}

T. J. Udovic¹⁰⁵ and B. Hauback⁶¹

Hydrogen Trapping in TaN_{0.006}H_{0.003}

M. Heene³⁰, H. Wipf³⁰, T. J. Udovic¹⁰⁵, and J. J. Rush¹⁰⁵

Inelastic Neutron Scattering Study of Al Charged With Hydrogen

T. J. Udovic¹⁰⁵, J. J. Rush¹⁰⁵, C. Buckley¹⁷⁹, and H. K. Birnbaum¹⁹⁵

Inelastic Neutron Scattering Study of Rare Earth Trihydrides and Trideuterides

T. J. Udovic¹⁰⁵, J. J. Rush¹⁰⁵, and Q. Z. Huang^{199, 105}

Investigation of Slow Motion Dynamics in Selective Adsorption

H. Taub²⁰⁴, D. Fuhrmann²⁰⁴, L. Criswell²⁰⁴, A. Diamu²⁰⁴, K. W. Herwig⁴, F. Y. Hansen¹⁶², and R. M. Dimeo¹⁰⁵

Low Energy Dynamics of Alkali Silicate Glasses

J. Toulouse⁷⁸ and D. A. Neumann¹⁰⁵

Low Energy Dynamics in Polycarbonate Copolymers

C. L. Soles¹¹⁵, R. M. Dimeo¹⁰⁵, A. F. Yee, and W.-L. Wu¹¹⁵

Low Energy Phonons in Nanocrystals of Ni₃Fe

A. Yue¹⁸, B. Fultz¹⁸, H. N. Frase¹⁸, J. L. Robertson¹²⁷, and R. M. Dimeo¹⁰⁵

Neutron Scattering Studies of the Dynamics of Hydrofluorocarbons Encaged in NaX and NaY Zeolites

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Neutron Scattering Studies of Hydration Reaction of Tricalcium Silicate and Portland Cement

J. J. Thomas¹²⁴, S. A. FitzGerald¹²⁸, D. A. Neumann¹⁰⁵, and R. A. Livingston³⁹

Neutron Scattering Studies on the Vibrational Excitations and the Structure of Ordered Niobium Hydrides

B. Hauer⁴⁴, E. Jansen⁴⁴, W. Kockelmann⁴⁴, W. Schafer⁴⁴, D. Richter⁴⁴, R. Hempelmann¹⁷⁴, T. J. Udovic¹⁰⁵, and J. J. Rush¹⁰⁵

Neutron Scattering Study of the Role of Diffusion in the Hydration Reaction of Tricalcium Silicate

S. A. FitzGerald¹²⁸, J. J. Thomas, D. A. Neumann¹⁰⁵, and R. A. Livingston³⁹

Neutron Scattering Study of the Structure of Na₂C₆₀ as a Function of Pressure and Temperature

T. Yildirim¹⁰⁵, D. A. Neumann¹⁰⁵, S. F. Trevino^{9, 105}, and J. E. Fischer²¹⁰

Neutron Scattering Study of the Dynamics of Hydrogen and Deuterium Dissolved in Crystalline Pd₉Si₂

T. J. Udovic¹⁰⁵, Q. Z. Huang^{199, 105}, J. J. Rush¹⁰⁵, C. Karmonik²¹⁹, Y. Andersson¹⁴⁶, and T. B. Flanagan²²¹

Neutron Scattering Study of the Freeze-Thaw Process in Portland Cement

J. C. McLaughlin¹²⁴, R. L. Gress²⁰⁸, D. A. Neumann¹⁰⁵, and R. A. Livingston³⁹

Neutron Scattering Study of the Liquid-Glass Transition in Trimethylheptane

G. Q. Shen²⁴, J. Toulouse⁷⁸, S. Beaufils²¹³, B. Bonello²¹¹, Y. H. Hwang²⁴, P. Finkel⁷⁸, J. Hernandez²⁴, M. Bertault²¹³, M. Maglione¹⁷⁷, C. Ecolivet²¹³, and H. Z. Cummins²⁴

Neutron Spectroscopy of Single-Walled Nanotubes

P. Papanek^{210, 105}, J. E. Fischer²¹⁰, Z. Benes²¹⁰, and A. Clay²¹⁰

Neutron Vibrational Spectroscopy and Hopping Dynamics of H and D in Pd₃P_{0.8}H(D)_x

T. J. Udovic¹⁰⁵, Q. Z. Huang^{199, 105}, and Y. Andersson²²¹

Neutron Vibrational Spectroscopy of Organic Materials

B. S. Hudson¹⁵⁹, C. Middleton¹⁵⁹, T. Jenkins¹⁵⁹, Y. Kuzmicheva⁹⁰, S. Baronov⁹⁰, and C. M. Brown^{199, 105}

Neutron Vibrational Spectroscopy of Sr₂IrH₅ and Sr₂RuH₆

T. J. Udovic¹⁰⁵ and R. O. Moyer¹⁷¹

Phonon Densities of States of γ -Ce and δ -Ce Measured by Inelastic Neutron Scattering

M. E. Manley^{18, 80}, R. J. McQueeney⁸⁰, J. L. Robertson¹²⁷, B. Fultz¹⁸, and D. A. Neumann¹⁰⁵

Phonon Density of States in $\text{Sc}_2(\text{WO}_4)_3$

C. Broholm^{71, 105}, C. Ulrich⁷¹, G. Gasparovic⁷¹, and C. M. Brown^{199, 105}

Phonon Density of States of U-238

M. E. Manley^{18, 80}, R. A. Robinson⁸⁰, C. M. Brown^{199, 105}, and B. Fultz¹⁸

Polarization and Structural Transitions of Irradiated Vinylidene Fluoride-Trifluoroethylene Copolymer

E. Balizer¹⁰², A. S. DeReggi¹¹⁵, D. A. Neumann¹⁰⁵, and F. B. Bateman¹¹¹

Preferential Isotopic Site Occupation in Rare-Earth Hydrides

T. J. Udovic¹⁰⁵, Q. Z. Huang^{199, 105}, and J. J. Rush¹⁰⁵

Pressure-Induced Interlinking of Carbon Nanotubes

T. Yildirim¹⁰⁵, O. Gulseren^{210, 105}, and S. Ciraci¹⁴

Proton Diffusion in $\text{Cs}_2(\text{HSO}_4)(\text{H}_2\text{PO}_4)$

S. M. Haile¹⁸, C. Chisolm¹⁸, Z. Chowdhuri^{199, 105}, T. Yildirim¹⁰⁵, and D. A. Neumann¹⁰⁵

Proton Diffusion in $M\text{H}(\text{SO}_4)_{1-x}(\text{SeO}_4)_x$, $M=\text{Rb, Cs}$

T. Yildirim¹⁰⁵, Z. Chowdhuri^{199, 105}, S. M. Haile¹⁸, C. Chisolm¹⁸, D. A. Neumann¹⁰⁵, and T. J. Udovic¹⁰⁵

Proton Dynamics in Brown Millerite-Structured $\text{Ba}_2\text{In}_2\text{O}_6\text{H}_2$: A Combined Inelastic Neutron Scattering and Theory Study

T. Yildirim¹⁰⁵, D. A. Neumann¹⁰⁵, and T. J. Udovic¹⁰⁵

Proton Dynamics in Hydrated Nafions

T. J. Udovic¹⁰⁵, S. F. Trevino^{9, 105}, S. K. Young⁶, M. K. Crawford³³, and Q. Sun³³

Proton Dynamics in Strontium Cerate and Zirconate Ceramics

T. Yildirim¹⁰⁵, T. J. Udovic¹⁰⁵, C. Karmonik²¹⁹, J. J. Rush¹⁰⁵, and R. L. Paul¹⁰⁶

Quantum Dynamics of Hydrogen in a Confined Potential

T. Yildirim¹⁰⁵ and A. B. Harris²¹⁰

The Role of Particle Size in the Hydration Reaction of Tricalcium Silicate

J. C. McLaughlin¹²⁴, D. A. Neumann¹⁰⁵, and R. A. Livingston³⁹

Rotational Dynamics of C_{60} in Superconducting $\text{K}_3\text{Ba}_3\text{C}_{60}$

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Sorption of Gases Into Single-Walled Carbon Nanotubes

T. Yildirim¹⁰⁵, C. M. Brown^{199, 105}, D. A. Neumann¹⁰⁵, and J. E. Fischer²¹⁰

Structural Ordering and Dynamics in $\text{LaH}(\text{D})_{3-x}$

T. J. Udovic¹⁰⁵, Q. Z. Huang^{199, 105}, C. Karmonik²¹⁹, and J. J. Rush¹⁰⁵

Structural Symmetry of YD_3 Epitaxial Thin Films

T. J. Udovic¹⁰⁵, Q. Z. Huang^{199, 105}, R. W. Erwin¹⁰⁵, B. Hjorvarsson²²⁶, and R. C. C. Ward²²⁶

Structure and Dynamics of Amorphous Carbon

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Structure and Dynamics of Hydrogen in Na_xC_{60}

S. A. FitzGerald¹²⁸, T. Yildirim¹⁰⁵, L. J. Santodonato¹⁰⁵, and D. A. Neumann¹⁰⁵

Structure and Dynamics of Thallium and Tellurium Containing Low Thermal-Conductivity Materials

B. Wolfing⁸², C. M. Brown^{199, 105}, and B. Battlog⁸²

Structure and Dynamics of an Ultra Hard Carbon

W. A. Kamitakahara¹⁰⁵, S. F. Trevino^{9, 105}, and S. G. Buga⁶⁷

Time-Temperature Superposition of Structural Relaxation in a Viscous Metallic Liquid

A. Meyer¹⁶³, R. Busch¹⁸, and H. Schober⁵⁹

Two and Three Dimensional Rotons in Ordered Porous Media

P. E. Soko¹³⁷, D. Narehood¹³⁷, and R. M. Dimeo¹⁰⁵

Vibration of Dodecahedrane: A Combined Neutron Scattering and Theoretical Study

T. Yildirim¹⁰⁵, B. S. Hudson¹⁵⁹, and C. Middleton¹⁵⁹

Vibrational Densities of States for Cubic and Hexagonal Boron Nitride

W. A. Kamitakahara¹⁰⁵, D. A. Neumann¹⁰⁵, G. Doll⁴⁸, B. Sweeting⁴⁸, and A. W. Moore¹

Water Dynamics in Monosaccharide Solutions

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Water Dynamics in Saturated MCM-41

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X-ray Diffraction Study of the Hydration Reaction in Tricalcium Silicate

J. C. McLaughlin¹²⁴, S. A. FitzGerald¹²⁸, D. A. Neumann¹⁰⁵, and R. A. Livingston³⁹

INSTRUMENTATION

Assembly and Testing of the Filter Analyzer Spectrometer

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Data Acquisition and Analysis Software for the Backscattering Spectrometer

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Data Acquisition and Analysis Software for the Filter Analyzer Neutron Spectrometer and the Ultra Low Angle Neutron Spectrometer

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Data Acquisition Electronics for the DCS

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Data Acquisition Software for the DCS

N. C. Maliszewskyj¹⁰⁵

Data Analysis Software for the Fermi Chopper Spectrometer

T. Yildirim¹⁰⁵ and C. M. Brown^{199, 105}

Data Reduction and Analysis Software for the DCS

J. C. Cook¹⁰⁵ and J. R. D. Copley¹⁰⁵

Design of the Next Generation Cold Neutron Triple Axis Spectrometer

C. W. Brocker^{199, 105}, C. L. Broholm^{71, 105}, and Y. Qiu⁷¹

Design of the Filter Analyzer Spectrometer

D. J. Pierce¹⁰⁵ and J. T. Kenney¹⁰⁵

Design of Infrastructure Improvements to the Disk Chopper Spectrometer

C. W. Brocker^{199, 105} and J. Bailey¹⁰⁵

Design and Performance Testing of an Active Double Focusing Monochromator System

S. A. Smea^{199, 105}, J. D. Orndorff⁷¹, G. A. Scharfstein⁷¹, P. C. Brand¹⁰⁵, and C. L. Broholm^{71, 105}

Design and Performance Testing of the DCS Data Acquisition System Electronics

J. B. Ziegler¹⁰⁵, N. C. Maliszewskyj¹⁰⁵, and P. Klosowski¹⁰⁵

Design of the Perfect Crystal SANS Diffractometer

J. J. Moyer¹⁰⁵ and J. T. Kenney¹⁰⁵

Design and Testing of Vertically Polarized Heusler Alloy Monochromator/Analyzer

C. P. Adams^{199, 105} and J. W. Lynn¹⁰⁵

Development of a Bent Silicon Crystal Monochromator and Other Intensity Enhancements for the Diffractometer for Residual Stress Measurement, Texture Determination and Single Crystal Diffraction

H. J. Prask¹⁰⁵, T. Gnäupel-Herold^{199, 105}, J. G. LaRock¹⁰⁵, and M. P. Popovic²⁰⁴

Development of a Dance Floor and Air Pad System for the Next Generation Neutron Scattering Instruments

M. Murbach^{199, 105}, D. Pierce¹⁰⁵, C. W. Wrenn^{199, 105}, and P. C. Brand¹⁰⁵

Development and Design of the Next-Generation Triple-Axis Spectrometer

C. W. Wrenn^{199, 105}, M. Murbach^{199, 105}, P. C. Brand¹⁰⁵, and J. W. Lynn¹⁰⁵

Development and Installation of a Leak-Tight, Top-Loading, Horizontal Field Superconducting Magnet

D. C. Dender¹⁰⁵, R. W. Erwin¹⁰⁵, and S. M. Choi^{199, 105}

Development of Low Activation Sample Holders for use at Small Angle Neutron Scattering and Spin Echo Spectrometry Instrumentation

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Development of a Radially-Focussed Polarizing Supermirror Analyzer Array

J. J. Moyer¹⁰⁵, P. C. Brand¹⁰⁵, and N. Rosov¹⁰⁵

Development of a Robust Static Thermal Switch for Fixed Sample Environment Temperatures From 15-650K

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Development of the HFBS Doppler Drive

R. M. Dimeo¹⁰⁵, P. C. Brand¹⁰⁵, and M.J. Rinehart¹⁰⁵

Development of a Vacuum Rated Preamplifier/Amplifier-/Discriminator for ^3He Neutron Detectors

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The Disk Chopper Time-of-Flight Spectrometer (DCS)

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Dy-Foil Detection of Neutrons

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Evaluation of New Neutron Area Detectors

Y. T. Cheng^{104, 106}

The Filter Analyzer Spectrometer

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Gas Handling System for the DCS

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A Helium Cooling System for the Electromagnetic Field Correction

Coils of the Neutron Spin Echo Spectrometer

P. C. Brand¹⁰⁵, P. D. Gallagher¹⁰⁵, D. B. Fulford¹⁰⁵, and W. R. Clow¹⁰⁵

Hydrogen Cold Source Development

R. E. Williams¹⁰⁵, P. A. Kopetka¹⁰⁵, and J. M. Rowe¹⁰⁵

Infrastructure Improvements in the Reactor Confinement Building

D. B. Fulford¹⁰⁵, M. C. English¹⁰⁵, and P. D. Gallagher¹⁰⁵

In Situ Real-Time Neutron Beam Imaging

K. T. Forstner¹⁰⁵ and N. C. Maliszewskyj¹⁰⁵

Installation of Dedicated Crystal Alignment Spectrometer at BT-7 Beamline for Construction of FANS Double Focusing Copper Monochromator

K. T. Forstner¹⁰⁵ and A. W. Clarkson¹⁰⁵

Installation of a New Heusler Alloy Polarizing Analyzer for BT-2

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Installation of the Sample Chamber, Flight Chamber and Detector Assembly for the DCS

C. W. Brocker^{199, 105}, M. J. Rinehart¹⁰⁵, G. M. Baltic¹⁰⁵, and S. Slifer¹⁰⁵

Installation and Testing of the New Thermal Beam Tube Shutter Design Using a Remote Actuated Cast System

J. J. Moyer¹⁰⁵, C. W. Wrenn^{199, 105}, P. C. Brand¹⁰⁵, A. W. Clarkson¹⁰⁵, G. M. Baltic¹⁰⁵, D. L. Clem¹⁰⁵, M. J. Rinehart¹⁰⁵, and S. Slifer¹⁰⁵

MBE Chamber for In Situ Neutron Scattering: Instrument Development

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Mechanical Solution to Reduce Velocity Selector Vibrations

P. C. Brand¹⁰⁵ and J. Bailey¹⁰⁵

Modular Electronics Package for Stepper Motor Operation

D. L. Kulp¹⁰⁵, M. C. English¹⁰⁵, P. Klosowski¹⁰⁵, and N. C. Maliszewskyj¹⁰⁵

Monte Carlo Methods for Nuclear Applications

R. E. Williams¹⁰⁵

Neutron Scattering Properties and Materials Properties Testing of the Null Scattering Titanium Alloy to be Used for High Pressure Cells

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The NIST Neutron Spin Echo Spectrometer (NSE)

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The Perfect Crystal SANS Diffractometer

J. G. Barker¹⁰⁵, J. J. Moyer¹⁰⁵, and C. J. Glinka¹⁰⁵

Reassessment of NG-3 Optical Filter Performance Based on Supermirror Reflectivity Data

J. C. Cook^{199, 105}

SANS Polarization Analysis With Nuclear-Spin-Polarized ^3He

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Search for Effects on Neutron Transmission Due to Multiple Reflection by Glass Capillary Walls

R. E. Beneson^{106, 232}, H. H. Chen-Mayer¹⁰⁶, and J. W. Lynn¹⁰⁵

TANQENS-A New Utility for the Analysis of Quasielastic Neutron Scattering Data

T. Yildirim¹⁰⁵

NEUTRON PHYSICS

Accelerated Testing for Neutron Induced Soft Errors in SRAM Chips

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Accurate Determination of Neutron Capture Flux

M. S. Dewey¹¹¹, M. Arif¹¹¹, D. M. Gilliam¹¹¹, J. S. Nico¹¹¹, W. M. Snow⁵⁸, J. Pauwels⁶⁵, and R. Scott⁸⁵

Benchmark Measurements and Calculations of Neutron Transport

D. M. Gilliam¹¹¹, M. S. Dewey¹¹¹, J. S. Nico¹¹¹, C. M. Eisenhauer¹¹¹, J. A. Grundl¹¹¹, and H. Gerstenberg⁵

Certified Neutron Fluence Standards From the Cavity Fission Source

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Defined-Geometry Alpha Counting

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Determination of the Neutron Lifetime

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Highly Accurate Neutron Wavelength Measurements

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Intercomparison of NIST and PNL Calibration Facilities

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LASER Polarization of ^3He for Neutron Spin Filters and Medical MRI

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Neutron Calorimetry

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Neutron Fluence Rate Measurements

D. M. Gilliam¹¹¹, J. S. Nico¹¹¹, and J. M. Adams¹¹¹

Neutron Interferometry and Optics

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Neutron Radiography/Tomography

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Parity Non-Conserving Neutron Spin Rotation

B. Hecke¹²⁴, D. Markoff²²⁴, E. Adelberger²²⁴, F. E. Wietfeldt^{111, 51}, and P. R. Huffman¹¹¹

Quality Assurance Checks on Masses and Impurities in Neutron Dosimeters for NRC Reactor Pressure Vessel Embrittlement Surveillance

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Response of Albedo Dosimeters Versus Distance From a Neutron Source

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Study of Time Reversal Invariance in Neutron Beta Decay

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Trapping of Ultra Cold Neutrons

J. M. Doyle⁵¹, S. K. Lamoreaux⁸⁰, R. Golub⁴⁹, M. S. Dewey¹¹¹, P. R. Huffman¹¹¹, C. R. Brome⁵¹, C. E. H. Mattoni⁵¹, D. N. McKinsey⁵¹, K. Alvine⁵¹, S. Dzhosynk⁵¹, L. Yan^{51g}, K. Coakley¹¹¹, G. Yang¹¹¹, and A. K. Thompson¹¹¹

Utilization of the Materials Dosimetry Reference Facility-Tests of New IRMM ^{237}Np and ^{238}U Fast Neutron Dosimeters

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MATERIALS ANALYSIS

Analytical Applications of Cold Neutrons

H. H. Chen-Mayer¹⁰⁶, R. Demiralp¹⁰⁶, R. R. Greenberg¹⁰⁶, G. P. Lamaze¹⁰⁶, J. K. Langland¹⁰⁶, R. M. Lindstrom¹⁰⁶, E. A. Mackey¹⁰⁶, D. F. R. Mildner¹⁰⁶, R. L. Paul¹⁰⁶, and V. A. Sharov²³²

Application of Radioisotope-Induced X-ray Emission to the Identification of Lead and Other Elements in Ceramic Glazes and Housewares

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Archeological Applications of NAA

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A Bender-Focuser for Prompt Gamma Activation Analysis

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Bio-Analytical and Specimen Bank Research

R. R. Greenberg¹⁰⁶, J. K. Langland¹⁰⁶, E. A. Mackey¹⁰⁶, B. J. Porter¹⁰⁶, and R. L. Zeisler¹⁰⁶

Certification of Standard Reference Materials by Neutron Activation Analysis

D. A. Becker¹⁰⁶, R. Demiralp¹⁰⁶, R. R. Greenberg¹⁰⁶, R. M. Lindstrom¹⁰⁶, E. A. Mackey¹⁰⁶, and R. L. Zeisler¹⁰⁶

Characterization of Sources and Fluxes of Particulate Pollutants Depositing to Great Waters

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Characterization of Submicrometer Aerosol Particles

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Determination of Hydrogen by PGAA

R. R. Greenberg¹⁰⁶, R. M. Lindstrom¹⁰⁶, and R. L. Paul¹⁰⁶

Determination of Phosphorus via RNAA with Beta Counting

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Evaluation of Accuracy and Precision in INAA of Botanical Materials

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Evaluation of Errors and Interferences in NAA

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Focusing Methods for Radiography and Topography

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High Sensitivity Gamma-Ray Spectrometry

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Homogeneity and Composition of Small Solid Samples

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Hydrogen Detection in Industrial Materials by Incoherent Neutron Scattering

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Improvements to INAA Methodology

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Improvements to PGAA Methodology

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Measurement of Lithium Concentrations in Battery Materials with Cold Neutron Depth Profiling

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Multielement Analysis of Foods and Related Materials by NAA

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Neutron Absorption Measurements Using Converging Beams

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Neutron Beam Spatial Distributions Using Imaging Plate Technology

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Neutron Depth Profiling of AlN Thin Films

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Neutron Depth Profiling of Sulfur in CVD Diamonds

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Nitrogen Profiling of Thin Titanium Nitride Films

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Neutron Focusing for Analytical Chemistry

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Neutron Distribution Measurements by Neutron Induced Autoradiography

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Neutron Dosimetry for Instrument Development

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Neutron Transmission Through Tapered Capillaries

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New Developments in Monitor Activation Analysis

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New Developments in NDP

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Quality Assurance Improvements for NAA

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Quality Assurance Programs

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Reactor Characterization for NAA

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Redesign of the VT-5 Thermal Neutron Prompt Gamma-Ray Activation Analysis Facility

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Radionuclides in Foods

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Revalidation of Food SRMs

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Size Distribution and Deposition of Toxic Elements to Lake Michigan, by Size and by Source

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Test of a Novel High Sensitivity Neutron Detector

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- 2 AEA Technology, United Kingdom
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- 4 Argonne National Laboratory
- 5 Armed Forces Radiobiology Research Institute
- 6 Army Research Laboratory
- 7 Army Research Office
- 8 Auburn University
- 9 Australian Geological Survey, Australia
- 10 Australian Nuclear Science and Technology Organization, Australia
- 11 Battelle Pacific Northwest Laboratory
- 12 Belarus Academy of Sciences, Belarus
- 13 Bethany College
- 14 Bilkent University, Turkey
- 15 Brookhaven National Laboratory
- 16 Brooklyn Polytechnic University
- 17 Brown University
- 18 California Institute of Technology
- 19 Carnegie Mellon University
- 20 Center for Advanced Research in Biotechnology
- 21 Centre National de Recherche Scientifique, France
- 22 Centro Brasileiro de Pesquisas Fisicas, Brazil
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- 24 City College of New York
- 25 Clemson University
- 26 College of William and Mary
- 27 Commissariat d'Energie Atomique, France
- 28 Cornell University
- 29 Czechoslovakia Academy of Sciences, Czechoslovakia
- 30 Darmstadt Technology University, Germany
- 31 Dow Corning
- 32 Dow Chemical
- 33 Dupont Company
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- 35 Eidgenössische Technische Hochschule, Switzerland
- 36 Emory University School of Medicine
- 37 ExxonMobil Research and Engineering Company
- 38 Englehard Corporation
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- 51 Harvard University
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- 53 Hongik University, South Korea
- 54 Hybrid Plastics
- 55 IBM, Almaden
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- 59 Institut Laue-Langevin, France
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- 62 Institute of Physical and Chemical Research, Japan
- 63 Institute of Physics, Peoples Republic of China
- 64 Institute for Plasma Physics, Czech Republic
- 65 Institute for Reference Materials and Measurements, Belgium
- 66 Institute for Special Materials, Italy
- 67 Institute for Superhard and Novel Carbon Materials, Russia
- 68 Intel Corporation
- 69 Ioffe Physica-Technical Institute, Russia
- 70 John Deere Corporation
- 71 Johns Hopkins University
- 72 Joint Institute of Nuclear Research, Russia
- 73 Karlsruhe Nuclear Research Center, Germany
- 74 Kent State University
- 75 Kurchatov Institute, Russia
- 76 Kyoto University, Japan
- 77 Kyunghee University, Korea
- 78 Lehigh University
- 79 Leiden University, Germany
- 80 Los Alamos National Laboratory
- 81 Los Alamos Neutron Science Center
- 82 Lucent Technologies, Bell Laboratories
- 83 Massachusetts Institute of Technology
- 84 Max-Planck Institut, Germany
- 85 McClellan Nuclear Radiation Center
- 86 McMaster University, Canada
- 87 MDK Incorporated
- 88 Metal Physics Institute, Russia
- 89 Michigan Molecular Institute
- 90 Michigan State University
- 91 Moscow State University, Russia
- 92 Moscow Steel and Alloys Institute, Russia
- 93 National Aeronautics and Space Administration, Johnson Space Center
- 94 National Central University, Taiwan
- 95 National Institute for Research in Inorganic Materials, Japan
- 96 National Institute of Health
- 97 National Renewable Energy Laboratory
- = National Sun Yat-Sen University, Taiwan
- 99 National Taiwan University, Taiwan
- = National Tsing Hua University, Taiwan
- 101 Naval Research Laboratory
- 102 Naval Surface Warfare Center
- 103 NEC Research Institute Incorporated
- 104 Neutek Incorporated
- 105 NIST Center for Neutron Research
- 106 NIST, Analytical Chemistry Division
- 107 NIST, Biotechnology Division
- 108 NIST, Building Materials Division
- 109 NIST, Ceramics Division
- 110 NIST, Electron and Optical Physics Division
- 111 NIST, Ionizing Radiation Division
- 112 NIST, Materials Reliability Division
- 113 NIST, Metallurgy Division
- 114 NIST, Occupational Health and Safety Division
- 115 NIST, Polymers Division
- 116 NIST, Semiconductor Electronics Division
- 117 NIST, Standard Reference Materials Program
- 118 NIST, Statistical Engineering Division
- 119 NIST, Surface and Microanalysis Science Division
- 120 NIST, Thermophysics Division
- 121 North Carolina State University
- 122 Northeastern University
- 123 Northern Illinois University
- 124 Northwestern University
- 125 Nova Scientific, Incorporated
- 126 Oak Ridge Institute for Science and Education
- 127 Oak Ridge National Laboratory
- 128 Oberlin College
- 129 Ohio State University
- 130 Ohio University
- 131 Olin Conservation Incorporated
- 132 Oregon State University
- 133 OSMIC, Incorporated
- 134 Oxford University, United Kingdom
- 135 Pacific Lutheran University
- 136 Paul Scherrer Institute, Switzerland
- 137 Pennsylvania State University
- 138 Philips Research Laboratories, The Netherlands
- 139 Polytechnic University
- 140 Princeton University
- 141 Purdue University
- 142 Queen's University, Canada
- 143 Racah Institute, Israel
- 144 Risø National Laboratory, Denmark
- 145 Rice University
- 146 Royal Institute of Technology, Sweden
- 147 Royal Institution, United Kingdom
- 148 Ruhr University, Germany
- 149 Russian Academy of Sciences, Russia
- 150 Rutgers University
- 151 SAGE Electrochromics
- 152 Sandia National Laboratory
- 153 Seoul National University, Korea
- 154 Sid Richardson Carbon Company
- 155 Smithsonian Institute
- 156 Stanford University
- 157 State University of New York, Stony Brook
- 158 Stress Sensors
- 159 Syracuse University
- 160 Tata Institute of Fundamental Research, India
- 161 Technology for Energy Corporation
- 162 Technical University of Denmark, Denmark
- 163 Technical University Munchen, Germany
- 164 Technobiochip
- 165 Tel Aviv University, Israel
- 166 Texas Materials Institute
- 167 Thomas Jefferson High School
- 168 Tohoku University, Japan
- 169 Tokyo University, Japan
- 170 Toyo University, Japan
- 171 Trinity College
- 172 Tufts University
- 173 Università di Brescia, Italy
- 174 University des Saarlandes, Germany
- 175 University of Aachen, Germany
- 176 University of Akron
- 177 University of Bourgogne, France
- 178 University of California at Berkeley
- 179 University of California at Davis
- 180 University of California at Irvine
- 181 University of California at Riverside
- 182 University of California at San Diego
- 183 University of California at San Francisco
- 184 University of California at Santa Barbara
- 185 University of California at Santa Cruz
- 186 University of Chicago
- 187 University of Cincinnati
- 188 University of Cologne, Germany
- 189 University of Connecticut
- 190 University of Delaware
- 191 University of Florida
- 192 University of Grenoble, France
- 193 University of Guelph, Canada
- 194 University of Houston
- 195 University of Illinois
- 196 University of Innsbruck, Austria
- 197 University of Iowa
- 198 University of Manitoba, Canada
- 199 University of Maryland at College Park
- 200 University of Maryland Baltimore County
- 201 University of Massachusetts
- 202 University of Michigan
- 203 University of Minnesota
- 204 University of Missouri at Columbia
- 205 University of Missouri-Rolla
- 206 University of Munich, Germany
- 207 University of Nebraska
- 208 University of New Hampshire
- 209 University of Notre Dame
- 210 University of Pennsylvania
- 211 University of Pierre and Marie Curie, France
- 212 University of Puerto Rico
- 213 University of Rennes, France
- 214 University of Rhode Island
- 215 University of Surrey, United Kingdom
- 216 University of Sussex, United Kingdom
- 217 University of Sydney, Australia
- 218 University of Tennessee
- 219 University of Texas
- 220 University of Utah
- 221 University of Vermont
- 222 University of Virginia
- 223 University of Warsaw, Poland
- 224 University of Washington
- 225 University of Waterloo, Canada
- 226 University of Uppsala, Sweden
- 227 Virginia Commonwealth University
- 228 Walter Reed Army Institute of Research
- 229 Washington University
- 230 West Virginia University
- 231 Worcester Polytechnic Institute
- 232 X-ray Optical Systems
- 233 Yale University