

## Neutron Scattering Points of Contact October 2004

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*Atomic-scale dynamics at thermal and epithermal energies*

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*Density profiles normal to the surface at liquid surfaces and liquid interfaces*

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*Crystal structure systematics and structure-property relationships among inorganic materials, powder and single-crystal neutron and x-ray diffraction methods*

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*Residual stress mapping in engineering and research samples, micro residual stresses in polycrystalline composites, crystal structure and in situ studies*

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*Joint Institute for Neutron Sciences, local structural analysis, the PDF method, inelastic neutron scattering*

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*Spallation Neutron Source user program*

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*Inelastic neutron scattering, hard condensed matter, magnetism, magnetic oxides, magnetic excitations in solids*

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*Atomic-scale dynamics in the 0-20 meV range*

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*Inelastic neutron scattering and diffraction, magnetism, ferroelectricity, magnetic and structural phase transitions, real time and in-situ neutron scattering*

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*Neutron reflectometry, small angle neutron scattering, soft condensed matter, thin films and interfaces, complex fluid structure and flow*

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*Atomic scale dynamics, diffusive and vibrational motions of adsorbed molecules or large molecules*

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*Atomic structure in a wide variety of powdered crystalline samples*

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*Atomic structure in moderate-unit-cell single crystal samples*

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*Residual stress mapping in engineering and research samples, micro residual stresses in polycrystalline composites, crystal structure and in situ studies*

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*Magnetic and chemical density profiles in surfaces, thin films and multiplayer systems*

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*Neutron spectroscopy, magnetic materials, low-dimensional quantum magnetism.*

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*Small angle neutron scattering; soft condensed matter; phase transitions and critical phenomena in liquid and supercritical polymer solutions, gels and blends; dynamics and structure of fluids confined in small pores*

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*Magnetism and lattice dynamics of highly correlated electronic systems such as heavy fermion materials and the high temperature superconductors*

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*Inelastic neutron scattering and diffraction, novel materials, correlated electron systems, low dimensional and quantum magnetism, molecular magnets, phase transitions*

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*Atomic structure of liquids and glasses, neutron and hard X-ray scattering.*

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*Materials deformation understanding via synchrotron and neutron diffraction methods*

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*Studies on polycrystalline materials as a function of temperature and atmosphere; internal strain and texture in engineering materials*

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*Structure property relationships, thermal expansion, and phase equilibria*

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*Local atomic arrangements in alloys, martensitic phase transitions, lattice dynamics, structure and dynamics of liquids and amorphous materials*

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*High Flux Isotope Reactor user program, neutron reflectometry, soft condensed matter, thin films and interfaces, biomimetic materials*

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*Residual stress mapping in engineering and research materials, small angle x-ray and neutron scattering, phase transformations, catalysis*

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*Atomic structure at pressures up to 100 Gp; Small-angle scattering from liquids and glasses, and analysis of disorder in crystalline materials*

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*Small angle neutron and x-ray scattering, macromolecular structures, soft condensed matter and biological systems*

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*Residual stress and Mechanical behaviors, Phase transformation kinetics, Magnetism*

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*Small angle neutron scattering, macromolecular structures in the condensed and fluid states, polymers and polymers solutions*

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*Neutron triple axis spectroscopy, shape memory alloys*

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*Neutron triple-axis spectrometry, lattice dynamics, magnetism, intermetallic compounds, superconductivity*

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*Large-scale structures in a variety of materials, including biological molecules, polymers, colloidal systems*

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*Inelastic neutron scattering and diffraction, quantum magnetism, low dimensional systems, novel materials*

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