



In 2011, the ILL received notice of 611 publications by ILL staff and users. They are listed in the CD-ROM of this year's Annual Report.

The distribution by subject is as follows:

Applied Physics, Instrumentation and Techniques	52
Biology	45
Crystallography	81
Liquids and Glasses	31
Magnetic Excitations	49
Magnetic Structures	88
Materials Science and Engineering	66
Nuclear and Particle Physics	54
Theory	18
Soft Matter	91
Spectroscopy in Solid State Physics and Chemistry	36

ILL PhD studentships

PhD students at ILL in 2011 *	32
PhD theses completed in 2011	9

* receiving a grant from ILL

Biology

Champion D., Loupiac C., Russo D., Simatos D., Zanotti J.M. Dynamic and sub-ambient thermal transition relationships in water-sucrose solutions

Journal of Thermal Analysis and Calorimetry **104**, 365-374 (2011)

Cioci G., Srivastava A., Loganathan D., Mason S.A., Pérez S., Imberty A. Low-temperature neutron diffraction structures of *N*-glycoprotein linkage models and analogues: Structure refinement and trifurcated hydrogen bonds

Journal of the American Chemical Society **133**, 10042-10045 (2011)

Cornicchi E., Sebastiani F., De Francesco A., Orecchini A., Paciaroni A., Petrillo C., Sacchetti F. Collective density fluctuations of DNA hydration water in the time-window below 1 ps

Journal of Chemical Physics **135**, 025101-1-025101-7 (2011)

Crepin T., Peterson F., Haertlein M., Jensen D., Wang C., Cusack S., Kron M. A hybrid structural model of the complete *Brugia malayi* cytoplasmic asparaginyl-tRNA synthetase

Journal of Molecular Biology **405**, 1056-1069 (2011)

Doster W. The two-step scenario of the protein dynamical transition

Journal of Non-Crystalline Solids **357**, 622-628 (2011)

Falb M., Amata I., Gabel F., Simon B., Carlomagno T. Structure of the K-turn U₄ RNA: A combined NMR and SANS study

Nucleic Acids Research **38**, 6274-6285 (2010)

Gabel F. Combining small-angle neutron and X-ray scattering for studying protein denaturation

Neutron News **22**, 20-23 (2011)

Garg S., Porcar L., Woodka A.C., Butler P.D., Perez-Salas U. Noninvasive neutron scattering measurements reveal slower cholesterol transport in model lipid membranes

Biophysical Journal **101**, 370-377 (2011)

Gerelli Y., García Sakai V., Ollivier J., Deriu A. Conformational and segmental dynamics in lipid-based vesicles

Soft Matter **7**, 3929-3935 (2011)

Grage S.L., Keleshian A.M., Turdzeladze T., Battle A.R., Tay W.C., May R.P., Holt S.A., Antoranz Contera S., Härtlein M., Moulin M., Pal P., Rohde P.R., Forsyth V.T., Watts A., Huang K.C., Ulrich A.S., Martinac B. Bilayer-mediated clustering and functional interaction of MscL channels

Biophysical Journal **100**, 1252-1260 (2011)

Greving I., Dicko C., Terry A., Callow P., Vollrath F. Small angle neutron scattering of native and reconstituted silk fibroin

Soft Matter **6**, 4389-4395 (2010)

Groen D., Gooris G.S., Barlow D.J., Lawrence M.J., van Mechelen J.B., Demé B., Bouwstra J.A. Disposition of ceramide in model lipid membranes determined by neutron diffraction
Biophysical Journal **100**, 1481-1489 (2011)

Haupt M., Blakeley M.P., Teixeira S.C.M., Mason S.A., Mitchell E.P., Cooper J.B., Forsyth V.T. Preliminary neutron crystallographic study of human transthyretin
Acta Crystallographica F **67**, 1428-1431 (2011)

Hédoux A., Guinet Y., Descamps M. The contribution of Raman spectroscopy to the analysis of phase transformations in pharmaceutical compounds
International Journal of Pharmaceutics **417**, 17-31 (2011)

Horkay F., Basser P.J., Hecht A.M., Geissler E. Hierarchical organization of cartilage proteoglycans
Macromolecular Symposia **306-307**, 11-17 (2011)

Howard E.I., Blakeley M.P., Haertlein M., Petit-Haertlein I., Mitschler A., Fisher S.J., Cousido-Siah A., Salvay A.G., Popov A., Müller-Dieckmann C., Petrova T., Podjarny A. Neutron structure of type-III antifreeze protein allows the reconstruction of AFP-ice interface
Journal of Molecular Recognition **24**, 724-732 (2011)

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FEBS Journal **278**, 3041-3053 (2011)

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Angewandte Chemie International Edition **50**, 7520-7523 (2011)

Knoll W., Natali F., Peters J., Nanekar R., Wang C., Kursula P. Dynamic properties of a reconstituted myelin sheath
Spectroscopy **24**, 585-592 (2010)

Langan P., Gnanakaran S., Rector K.D., Pawley N., Fox D.T., Cho D.W., Hammel K.E. Exploring new strategies for cellulosic biofuels production
Energy & Environmental Science **4**, 3820-3833 (2011)

Magazù S., Migliardo F., Benedetto A. Puzzle of protein *dynamical transition*
Journal of Physical Chemistry B **115**, 7736-7743 (2011)

Magazù S., Migliardo F., Benedetto A., Mondelli C., González M.A. Thermal behaviour of hydrated lysozyme in the presence of sucrose and trehalose by EINS
Journal of Non-Crystalline Solids **357**, 664-670 (2011)

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Biophysical Journal **101**, 2782-2789 (2011)

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Nagy G., Posselt D., Kovács L., Holm J.K., Szabó M., Ughy B., Rosta L., Peters J., Timmins P., Garab G. Reversible membrane reorganizations during photosynthesis *in vivo*: Revealed by small-angle neutron scattering
Biochemical Journal **436**, 225-230 (2011)

Nawroth T., Buch P., Buch K., Langguth P., Schweins R. Liposome formation from bile salt-lipid micelles in the digestion and drug delivery model FaSSIF_{mod} estimated by combined time-resolved neutron and dynamic light scattering
Molecular Pharmaceutics **8**, 2162-2172 (2011)

Phillips T.K., Clarke S.M., Bhinde T., Castro M.A., Millán C., Medina S. Monolayer structures of alkyl aldehydes: Odd-membered homologues
Thin Solid Films **519**, 3123-3127 (2011)

Porcar L. Alzheimer's hope from neutron research
Trends in Analytical Chemistry **30**, ix-x (2011)

Russo D., Pellegrini E., González M.A., Perticaroli S., Teixeira J. In situ molecular dynamics analysis of the water hydrogen bond at biomolecular sites: Hydrophobicity enhances dynamics heterogeneity
Chemical Physics Letters **517**, 80-85 (2011)

Russo D., Teixeira J., Kneller L., Copley J.R.D., Ollivier J., Perticaroli S., Pellegrini E., Gonzalez M.A. Vibrational density of states of hydration water at biomolecular sites: Hydrophobicity promotes low density amorphous ice behavior
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Journal of Physical Chemistry Letters **2**, 2275-2279 (2011)

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Physical Chemistry - Chemical Physics **13**, 3161-3170 (2011)

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Journal of the Royal Society Interface **8**, 590-600 (2011)

Sugiyama M., Kurimoto E., Yagi H., Mori K., Fukunaga T., Hirai M., Zaccaï G., Kato K. Kinetic asymmetry of subunit exchange of homooligomeric protein as revealed by deuteration-assisted small-angle neutron scattering
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Chemistry - An Asian Journal **6**, 1728-1738 (2011)

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Journal of Biological Chemistry **286**, 12495-12508 (2011)

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Journal of Non-Crystalline Solids **357**, 615-621 (2011)

Zaccaï G. Neutrons and biology: Three decades of excitement and more to come
Neutron News **21**, 43-45 (2010)

Liquids and Glasses

Aoun B., Goldbach A., González M.A., Kohara S., Price D.L., Saboungi M.L. Nanoscale heterogeneity in alkyl-methylimidazolium bromide ionic liquids
Journal of Chemical Physics **134**, 104509-1-104509-7 (2011)

Baldi G., Fontana A., Rossi F., Monaco G. Raman scattering investigation of the boson peak in a sodium silicate glass
Philosophical Magazine **91**, 1801-1808 (2011)

Blochowicz T., Lusceac S.A., Gutfreund P., Schramm S., Stühn B. Two glass transitions and secondary relaxations of methyltetrahydrofuran in a binary mixture
Journal of Physical Chemistry B **115**, 1623-1637 (2011)

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Physical Review B **84**, 140510-1-140510-5 (2011)

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Europhysics Letters **95**, 26001-p1-26001-p4 (2011)

Chathoth S.M., Samwer K. Stokes-Einstein relation in dense metallic glass-forming melts
Applied Physics Letters **97**, 221910-1-221910-3 (2010)

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Physical Review Letters **106**, 155701-1-155701-4 (2011)

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Journal of Physics Condensed Matter **23**, 155101-1-155101-14 (2011)

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Journal of Physical Chemistry C **115**, 1867-1881 (2011)

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Food Biophysics **6**, 210-216 (2011)

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Journal of Chemical Physics **133**, 041101-1-041101-4 (2010)

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