

Publications

In 2010, the ILL received notice of 652 publications by ILL staff and users

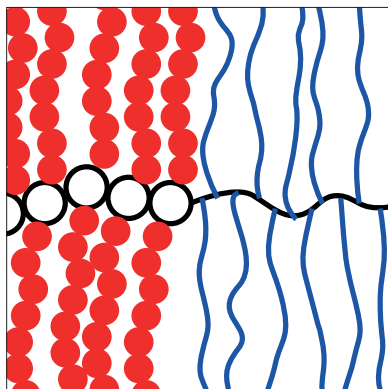
The distribution by subject is as follows:

Applied physics, instrumentation and techniques	36
Materials science and engineering	48
Theory	21
Nuclear and particle physics	61
Magnetic excitations	50
Crystallography	119
Magnetic structures	88
Liquids and glasses	22
Spectroscopy in solid state physics and chemistry	49
Biology	52
Soft matter	106

ILL PhD studentships

PhD students at ILL in 2010	35
PhD theses completed in 2010	6





Ainalem M.L., Kristen N., Edler K.J., Sparr E., Nylander T., Höök F. DNA binding to zwitterionic model membranes
Langmuir **26**, 4965-4976 (2010)

Arbe A., Genix A.C., Arrese-Igor S., Colmenero J., Richter D. Dynamics in poly(*n*-alkyl methacrylates):
A neutron scattering, calorimetric, and dielectric study
Macromolecules **43**, 3107-3119 (2010)

Arriaga L.R., Rodríguez-García R., López-Montero I., Farago B., Hellweg T., Monroy F. Dissipative curvature
fluctuations in bilayer vesicles: Coexistence of pure-bending and hybrid curvature-compression modes
European Physical Journal E **31**, 105-113 (2010)

Barth A., Grillo I., Gradzielski M. Dynamics of formation of vesicles studied by highly time-resolved stopped-flow
experiments
Tenside, Surfactants, Detergents **47**, 300-306 (2010)

Berret J.F., Oberdisse J. Superstructures par agrégation contrôlée de nanocolloïdes :
caractérisation structurale par diffusion de neutrons aux petits angles et simulation numérique
Collection SFN **11**, 199-217 (2010)

Béziel W., Reiter G., Drockenmüller E., Ostaci R.V., Al Akhrass S., Cousin F., Sferazza M. Network swelling
competing with translational entropy in autophobic polymer dewetting
Europhysics Letters **90**, 26008-p1-26008-p6 (2010)

Bordallo H.N., Boldyreva E.V., Fischer J., Koza M.M., Seydel T., Minkov V.S., Drebushchak V.A., Kyriakopoulos A.
Observation of subtle dynamic transitions by a combination of neutron scattering, X-ray diffraction and DSC:
A case study of the monoclinic L-cysteine
Biophysical Chemistry **148**, 34-41 (2010)

Brennan J.L., Kanaras A.G., Nativo P., Tshikhudo T.R., Rees C., Fernandez L.C., Dirvianskyte N., Razumas V.,
Skjøt M., Svendsen A., Jorgensen C.I., Schweins R., Zackrisson M., Nylander T., Brust M., Barauskas J.
Enzymatic activity of lipase-nanoparticle conjugates and the digestion of lipid liquid crystalline assemblies
Langmuir **26**, 13590-13599 (2010)

Bressel K., Muthig M., Prévost S., Grillo I., Gradzielski M. Mesodynamics: Watching vesicle formation *in situ*
by small-angle neutron scattering
Colloid and Polymer Science **288**, 827-840 (2010)

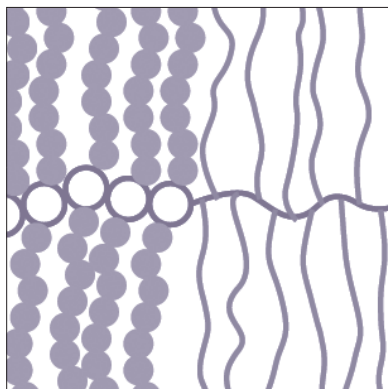
Brüning B., Rheinstädter M.C., Hiess A., Weinhausen B., Reusch T., Aeffner S., Salditt T. Influence of cholesterol
on the collective dynamics of the phospholipid acyl chains in model membranes
European Physical Journal E **31**, 419-428 (2010)

Bulut S., Zackrisson Oskolkova M., Schweins R., Wennerström H., Olsson U. Fusion of nonionic vesicles
Langmuir **26**, 5421-5427 (2010)

Cabral J.T., Higgins J.S. Small angle neutron scattering from the highly interacting polymer mixture TMPC/PSd:
No evidence of spatially dependent χ parameter
Macromolecules **42**, 9528-9536 (2009)

Campbell R.A., Angus-Smyth A., Yanez Arteta M., Tonigold K., Nylander T., Varga I. New perspective on the cliff
edge peak in the surface tension of oppositely charged polyelectrolyte/surfactant mixtures
Journal of Physical Chemistry Letters **1**, 3021-3026 (2010)

Capponi S., Arbe A., Alvarez F., Colmenero J., Frick B., Embs J.P. Atomic motions in poly(vinyl methyl ether):
A combined study by quasielastic neutron scattering and molecular dynamics simulations in the light
of the mode coupling theory
Journal of Chemical Physics **131**, 204901-1-204901-12 (2009)



Chen M.L., Penfold J., Thomas R.K., Smyth T.J.P., Perfumo A., Marchant R., Banat I.M., Stevenson P., Parry A., Tucker I., Grillo I. Mixing behavior of the biosurfactant, rhamnolipid, with a conventional anionic surfactant, sodium dodecyl benzene sulfonate
Langmuir **26**, 17958-17968 (2010)

Chen M.L., Penfold J., Thomas R.K., Smyth T.J.P., Perfumo A., Marchant R., Banat I.M., Stevenson P., Parry A., Tucker I., Grillo I. Solution self-assembly and adsorption at the air-water interface of the monorhamnolipid and dirhamnolipids and their mixtures
Langmuir **26**, 18281-18292 (2010)

Chevigny C., Jestin J., Gimes D., Schweins R., Di-Cola E., Dalmas F., Bertin D., Boué F. "Wet-to-dry" conformational transition of polymer layers grafted to nanoparticles in nanocomposite
Macromolecules **43**, 4833-4837 (2010)

Chua Y.C., Chan A., Wong H.C., Higgins J.S., Cabral J.T. Thermodynamics of TMPC/PSd/fullerene nanocomposites: SANS study
Macromolecules **43**, 9578-9582 (2010)

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Journal of Structural Biology **169**, 253-265 (2010)

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Macromolecules **43**, 1539-1542 (2010)

Combet J. Structure des solutions de polyélectrolytes : apport de la diffusion des rayons X et des neutrons aux petits angles
Collection SFN **11**, 153-176 (2010)

Cousin F., Grillo I., Jestin J., Oberdisse J. Une brève introduction à la matière molle
Collection SFN **11**, 1-6 (2010)

Cousin F., Gummel J., Clemens D., Grillo I., Boué F. Multiple scale reorganization of electrostatic complexes of poly(styrenesulfonate) and lysozyme
Langmuir **26**, 7078-7085 (2010)

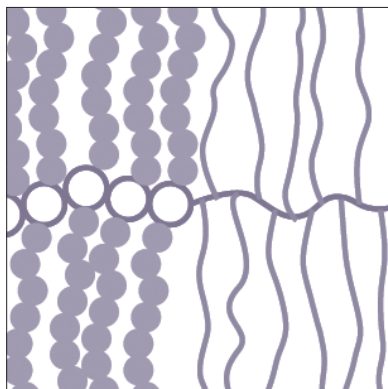
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Langmuir **25**, 13712-13717 (2009)

Dalle-Ferrier C., Niss K., Sokolov A.P., Frick B., Serrano J., Alba-Simionesco C. The role of chain length in nonergodicity factor and fragility of polymers
Macromolecules **43**, 8977-8984 (2010)

Dasgupta D., Kamar Z., Rochas C., Dahmani M., Mesini P., Guenet J.M. Design of hybrid networks by sheathing polymer fibrils with self-assembled nanotubules
Soft Matter **6**, 3573-3581 (2010)

Edler K.J., Hawley A.M., O'Driscoll B.M.D., Schweins R. Association of Titania with nonionic block copolymers in ethanol: The early stages of templating and film formation
Chemistry of Materials **22**, 4579-4590 (2010)

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Biochimica et Biophysica Acta **1804**, 63-67 (2010)



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Journal of Polymer Science B **48**, 1658-1667 (2010)

Fragneto G. Réflectivité de neutrons : exemples d'études des systèmes en matière molle
Collection SFN **11**, 89-100 (2010)

Fragneto G. Biological physics near surfaces/interfaces: A perspective
European Physical Journal E **30**, 239-243 (2009)

Fraser D.G., Greenwell H.C., Skipper N.T., Smalley M.V., Wilkinson M.A., Demé B., Heenan R.K. Chiral interactions of histidine in a hydrated vermiculite clay
Physical Chemistry - Chemical Physics **13**, 825-830 (2011)

Fritzsche M., Jester S.S., Höger S., Klaus C., Dingenouts N., Lindner P., Drechsler M., Rosenfeldt S. Self-organization of coil-ring-coil structures into tubular supramolecular polymer brushes: Synthesis, morphology, and growth
Macromolecules **43**, 8379-8388 (2010)

Gerelli Y., Di Bari M.T., Barbieri S., Sonvico F., Colombo P., Natali F., Deriu A. Flexibility and drug release features of lipid/saccharide nanoparticles
Soft Matter **6**, 685-691 (2010)

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Soft Matter **6**, 1981-1989 (2010)

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Macromolecules **43**, 2713-2720 (2010)

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Physical Review Letters **105**, 084501-1-084501-4 (2010)

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Langmuir **26**, 14567-14573 (2010)

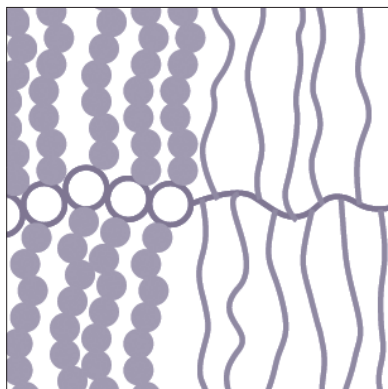
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Faraday Discussions **145**, 357-379 (2010)

Hofmann A.M., Wurm F., Hühn E., Nawroth T., Langguth P., Frey H. Hyperbranched polyglycerol-based lipids via oxyanionic polymerization: Toward multifunctional stealth liposomes
Biomacromolecules **11**, 568-574 (2010)

Holderer O., Klostermann M., Monkenbusch M., Schweins R., Lindner P., Strey R., Richter D., Sottmann T. Soft fluctuating surfactant membranes in supercritical CO₂-microemulsions
Physical Chemistry - Chemical Physics (2010)

Hollamby M.J., Eastoe J., Chemelli A., Glatter O., Rogers S., Heenan R.K., Grillo I. Separation and purification of nanoparticles in a single step
Langmuir **26**, 6989-6994 (2010)

Horkay F., Falus P., Hecht A.M., Geissler E. Length scale dependence of the dynamic properties of hyaluronic acid solutions in the presence of salt
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Humphrey S.M., Weldon G.F., Wood P.T. Pyridine-2,4-dicarboxylate: A versatile building block for the preparation of functional coordination polymers
Journal of Nanoscience and Nanotechnology **10**, 34-48 (2010)

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Langmuir **26**, 10411-10414 (2010)

Jia H., Grillo I., Titmuss S. Small angle neutron scattering study of polyelectrolyte brushes grafted to well-defined gold nanoparticle interfaces
Langmuir **26**, 7482-7488 (2010)

Jouault N., Dalmas F., Said S., Di Cola E., Schweins R., Jestin J., Boué F. Direct measurement of polymer chain conformation in well-controlled model nanocomposites by combining SANS and SAXS
Macromolecules **43**, 9881-9891 (2010)

Jouault N., Dalmas F., Said S., Di Cola E., Schweins R., Jestin J., Boué F. Direct small-angle-neutron-scattering observation of stretched chain conformation in nanocomposites: More insight on polymer contributions in mechanical reinforcement
Physical Review E **82**, 031801-1-031801-4 (2010)

Kemp R., Sanchez R., Mutch K.J., Bartlett P. Nanoparticle charge control in nonpolar liquids: Insights from small-angle neutron scattering and microelectrophoresis
Langmuir **26**, 6967-6976 (2010)

Kwaambwa H.M., Hellsing M., Rennie A.R. Adsorption of a water treatment protein from *Moringa oleifera* seeds to a silicon oxide surface studied by neutron reflection
Langmuir **26**, 3902-3910 (2010)

Lagrené K., Zanotti J.M., Daoud M., Farago B., Judeinstein P. Dynamical behavior of a single polymer chain under nanometric confinement
European Physical Journal Special Topics **189**, 231-237 (2010)

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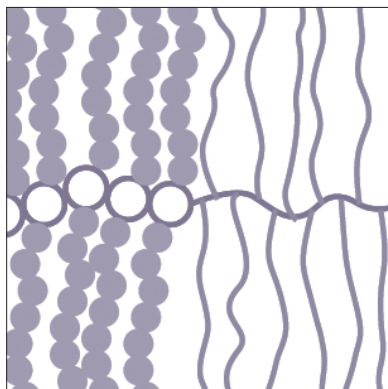
Liu Y., Chen C.Y., Chen H.L., Hong K., Shew C.Y., Li X., Liu L., Melnichenko Y.B., Smith G.S., Herwig K.W., Porcar L., Chen W.R. Electrostatic swelling and conformational variation observed in high-generation polyelectrolyte dendrimers
Journal of Physical Chemistry Letters **1**, 2020-2024 (2010)

Liu Y., Porcar L., Hong K., Shew C.Y., Li X., Liu E., Butler P.D., Herwig K.W., Smith G.S., Chen W.R. Effect of counterion valence on the pH responsiveness of polyamidoamine dendrimer structure
Journal of Chemical Physics **132**, 124901-1-124901-6 (2010)

Loizou E., Porcar L., Schexnailder P., Schmidt G., Butler P. Shear-induced nanometer and micrometer structural responses in nanocomposite hydrogels
Macromolecules **43**, 1041-1049 (2010)

Lund R. Small angle neutron scattering as a tool to study kinetics of block copolymer micelles
Springer Series in Solid-State Sciences **161**, 213-240 (2009)

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Collection SFN **11**, 177-197 (2010)



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European Physical Journal Special Topics **189**, 205-216 (2010)

Maccarini M., Briganti G., Rucareanu S., Lui X.D., Sinibaldi R., Sztucki M., Lennox R.B. Characterization of poly(ethylene oxide)-capped gold nanoparticles in water by means of transmission electron microscopy, thermogravimetric analysis, mass density, and small angle scattering
Journal of Physical Chemistry C **114**, 6937-6943 (2010)

Martín J., Krutyeva M., Monkenbusch M., Arbe A., Allgaier J., Radulescu A., Falus P., Maiz J., Mijangos C., Colmenero J., Richter D. Direct observation of confined single chain dynamics by neutron scattering
Physical Review Letters **104**, 197801-1-197801-4 (2010)

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Physical Chemistry - Chemical Physics (2010)

Meridiano Y., Berthon L., Crozes X., Sorel C., Dannus P., Antonio M.R., Chiarizia R., Zemb T. Aggregation in organic solutions of malonamides: Consequences for water extraction
Solvent Extraction and Ion Exchange **27**, 607-637 (2009)

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Soft Matter **5**, 3646-3656 (2009)

Morin E., Guenet J.M., Díaz D.D., Remy J.S., Wagner A. Fine-tuning the morphology of self-assembled nanostructures of propargyl ammonium-based amphiphiles
Journal of Physical Chemistry B **114**, 12495-12500 (2010)

Mutch K.J., van Duijneveldt J.S., Eastoe J., Grillo I., Heenan R.K. Scaling the structure factors of protein limit colloid-polymer mixtures
Langmuir **26**, 1630-1634 (2010)

Müter D., Shin T., Demé B., Fratzl P., Paris O., Findenegg G.H. Surfactant self-assembly in cylindrical nanopores
Journal of Physical Chemistry Letters **1**, 1442-1446 (2010)

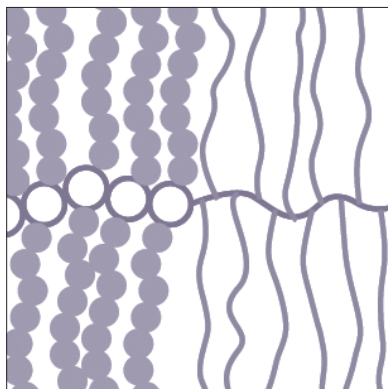
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Langmuir **26**, 3794-3797 (2010)

Nguyen T.X., Jobic H., Bhatia S.K. Microscopic observation of kinetic molecular sieving of hydrogen isotopes in a nanoporous material
Physical Review Letters **105**, 085901-1-085901-4 (2010)

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Biomacromolecules **11**, 1978-1982 (2010)

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Small **6**, 1191-1196 (2010)

Petkov J.T., Tucker I.M., Penfold J., Thomas R.K., Petsev D.N., Dong C.C., Golding S., Grillo I. The impact of multivalent counterions, Al³⁺, on the surface adsorption and self-assembly of the anionic surfactant alkyloxyethylene sulfate and anionic/nonionic surfactant mixtures
Langmuir **26**, 16699-16709 (2010)



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Journal of Physical Chemistry Letters **1**, 126-129 (2010)

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Journal of Physical Chemistry B **114**, 1751-1756 (2010)

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Canadian Journal of Chemistry **88**, 288-297 (2010)

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Physica B **405**, 3690-3693 (2010)

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Macromolecules **42**, 9412-9421 (2009)

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Langmuir **26**, 7101-7106 (2010)

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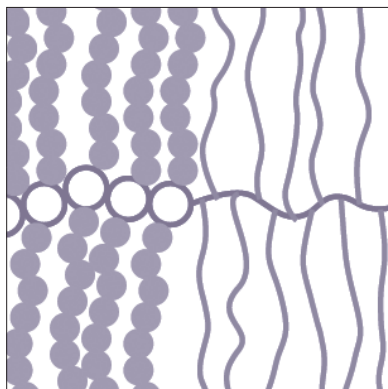
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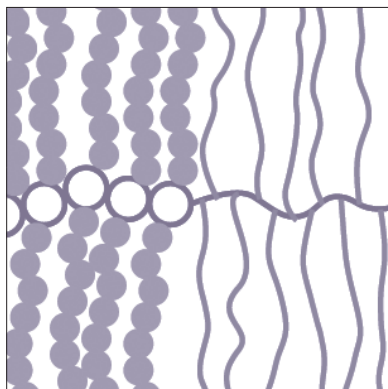
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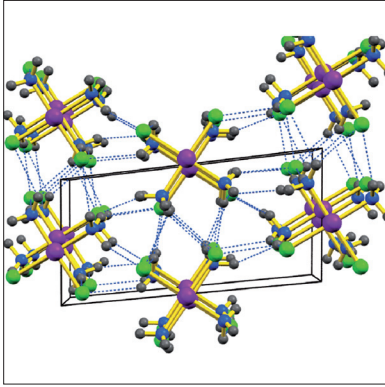
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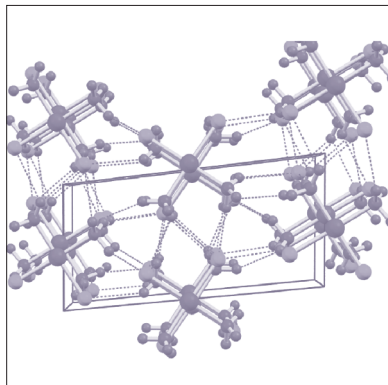
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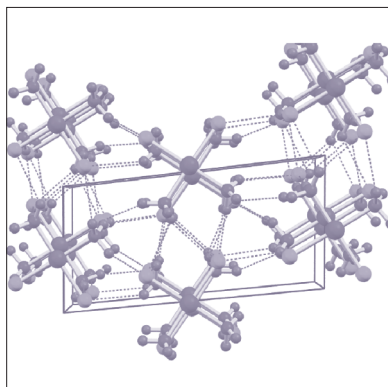
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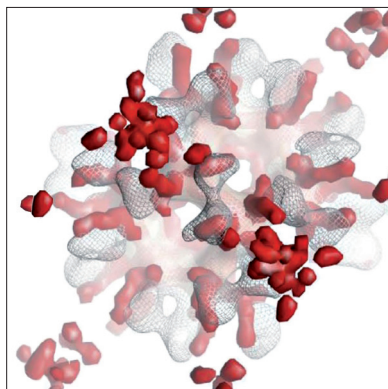
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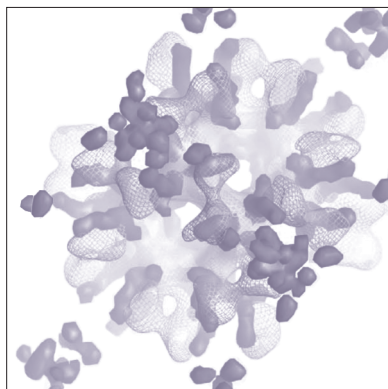
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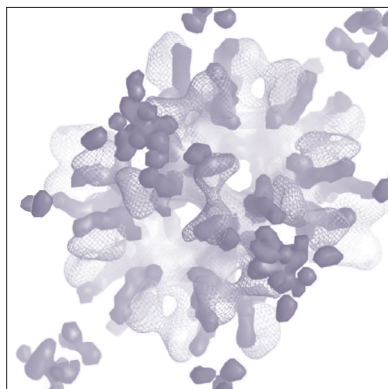
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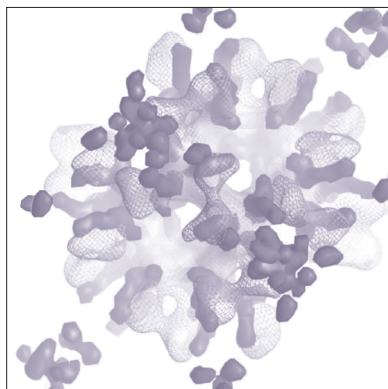
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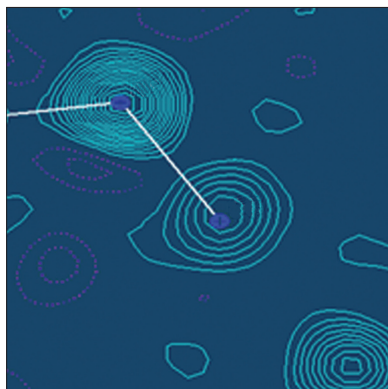
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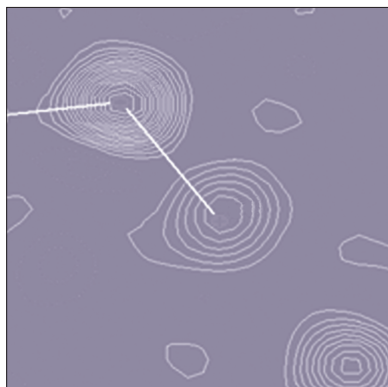
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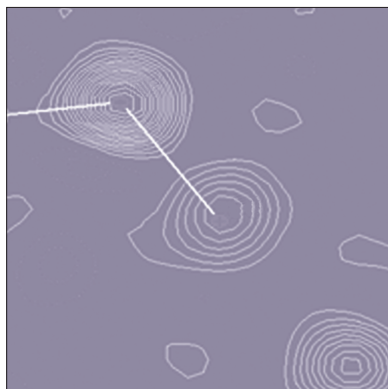
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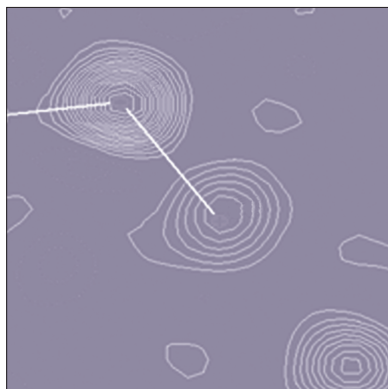
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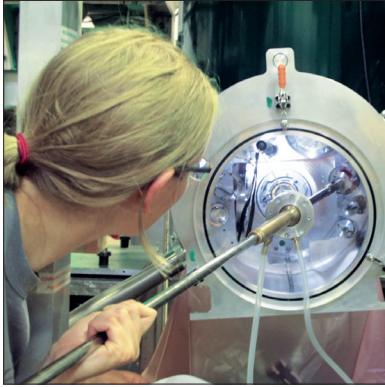
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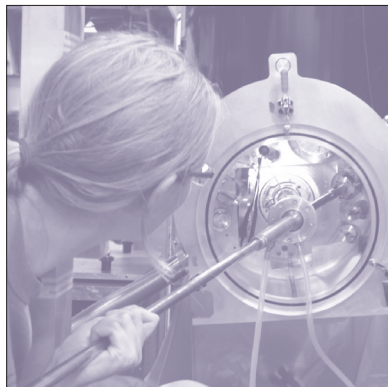
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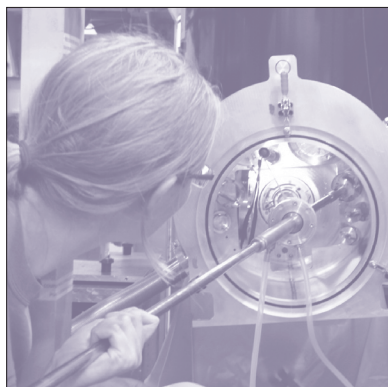
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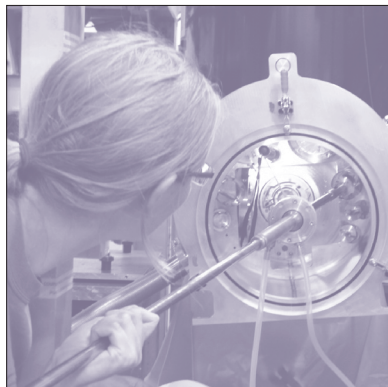
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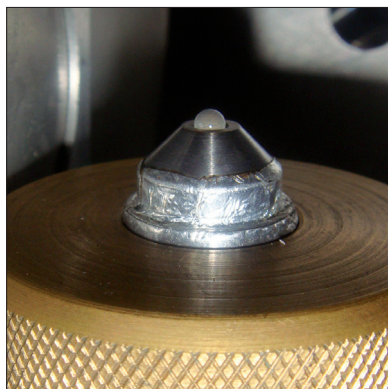
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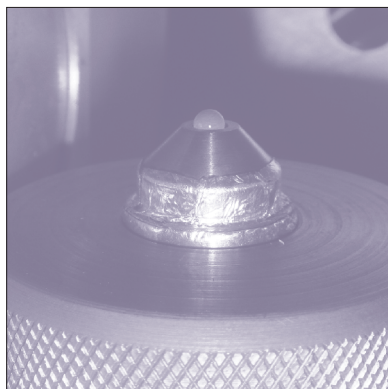
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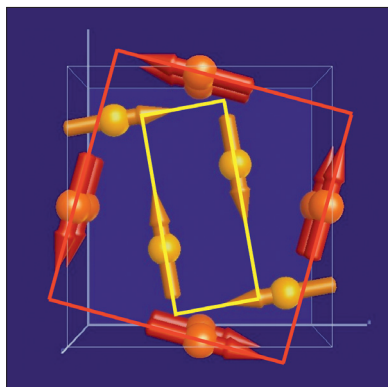
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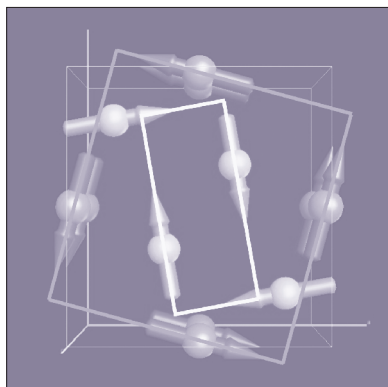
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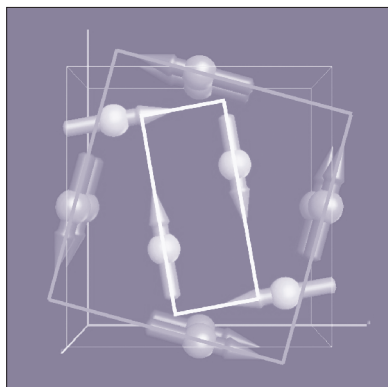
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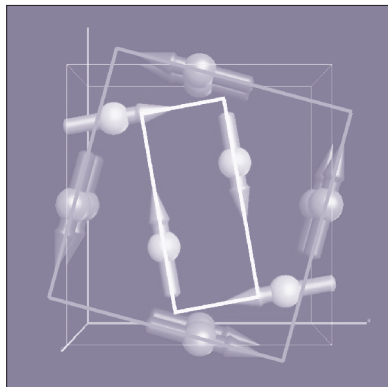
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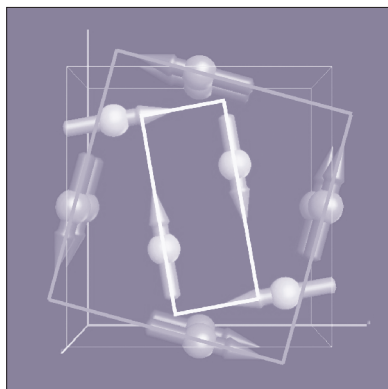
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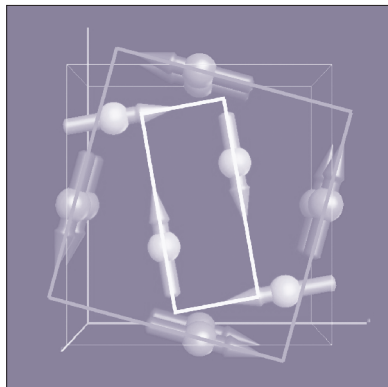
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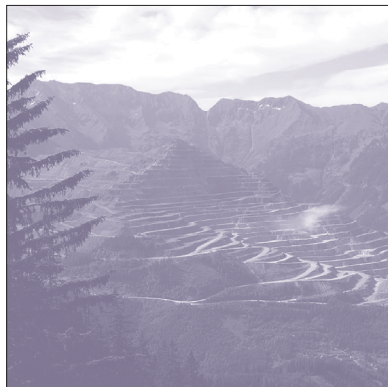
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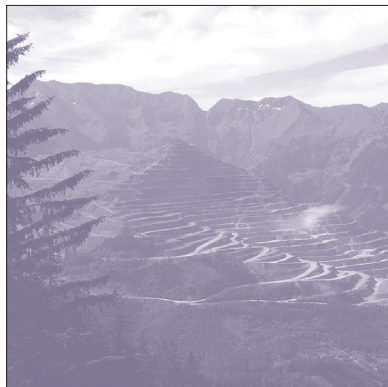
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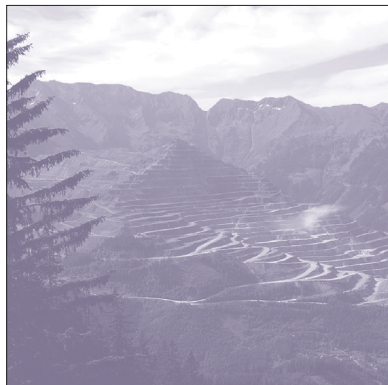
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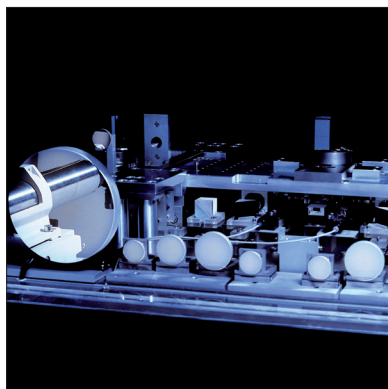
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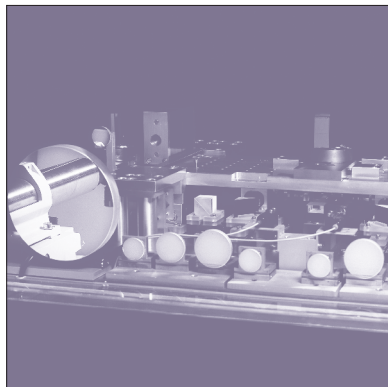
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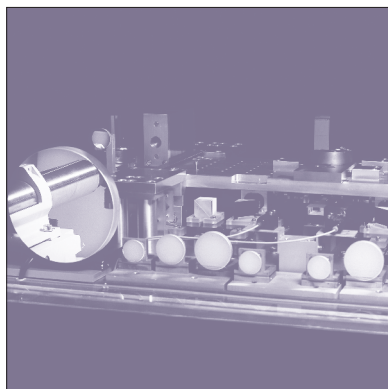
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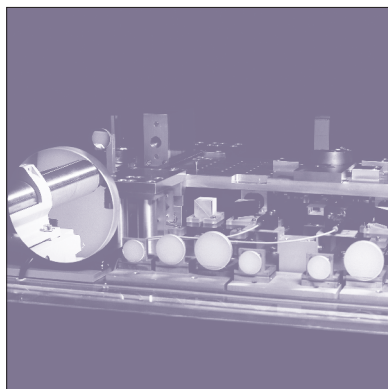
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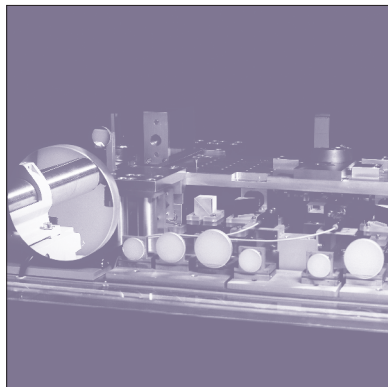
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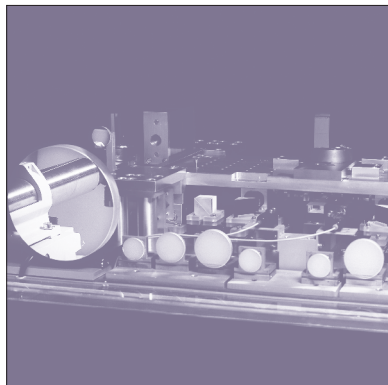
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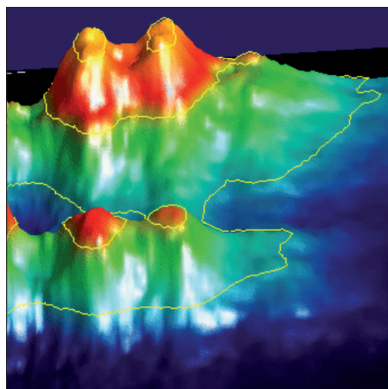


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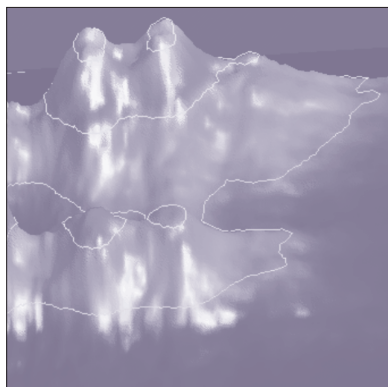
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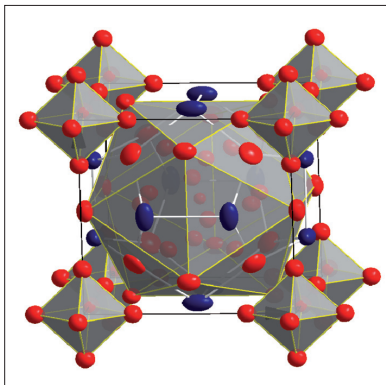
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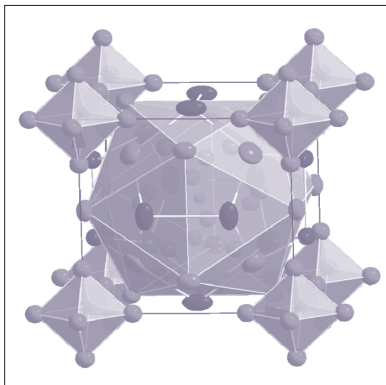
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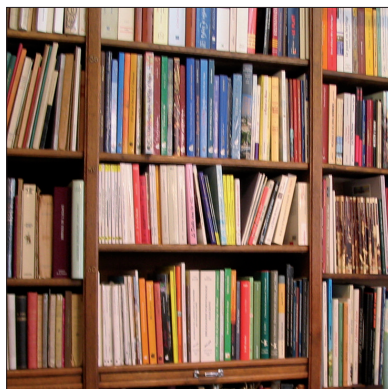
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