

PUBLICATIONS



PUBLICATIONS - 2001-2002
PAPERS PUBLISHED IN SCIENTIFIC PERIODICALS
AND CONFERENCE PROCEEDINGS

1 - STRUCTURES AND PHASE TRANSITIONS

ABAKUMOV A.M., ROZOVA M. G., PAVLYUK B. PH., LOBANOV M.V., ANTIPOV E. V., LEBEDEV O.I., VAN TENDELOO, G., SHEPTYAKOV D. V., BALAGUROV A.M., BOUREE F - [Synthesis and crystal structure of novel layered manganese oxide \$\text{Ca}_2\text{MnGaO}_{5+\delta}\$](#)

Journal of Solid State Chemistry **158** (2001) 100-111

ALVAREZ-VEGA M., RODRIGUEZ-CARVAJAL J., REYES-CARDENAS J. G., FUENTES A. F., AMADOR U - [Synthesis and characterization of new double tungstates \$\text{Li}_2\text{MII}\(\text{WO}_4\)_2\$ \(M = Co, Ni, and Cu\)](#).

Chemistry of Materials **13** (2001) 3871-3875

AUTRET C., RETOUX R., HERVIEU M., RAVEAU B - [Charge ordering in a 2D manganite, \$\text{Pr}_{0.25}\text{Ca}_{1.75}\text{MnO}_4\$](#)

Chemistry of Materials **13** (2001) 4745-4752

AUTRET C., MARTIN C., MAIGNAN A., HERVIEU M., RAVEAU B., ANDRE G., BOUREE F., KURBAKOV A., TROUNOV V. - [Destabilization of the cooperative Jahn-Teller effect in \$\text{Sm}_{0.2}\text{Ca}_{0.8}\text{MnO}_3\$ by Ru-doping.](#)

Journal Magnetism and Magnetic Materials **241** (2002) 303-314

AUTRET, C., MARTIN, C., MAIGNAN, A., HERVIEU, M., RAVEAU, B., ANDRE, G., BOUREE, F. - [Strained structure in \$\text{Ho}_{0.5}\text{Sr}_{0.5}\text{MnO}_3\$](#)

Journal of Solid State Chemistry **165** (2002) 65-73

AUTRET C., ANDRE G., BOUREE F., MARTIN C., HERVIEU M., MAIGNAN A., RETOUX R., RAVEAU B. - [Structural and magnetic properties in bidimensionnal manganites](#)

Applied Physics A **74** (2002) S683-S685

BASHIR J., KHAN RTA., BUTT NM., HEGER G. - [Thermal atomic displacement parameters of SrO](#)

Powder Diffraction **17** (2002) 222-224

BEAURY L., DEROUET J., HOLSA J., LASTUSAARI M., RODRIGUEZ-CARVAJAL J. - [Neutron powder diffraction studies of stoichiometric NdOF between 1.5 and 300 K.](#)

Solid State Sciences **4** (2002) 1039-1043

BEDOYA C., MULLER Ch., BAUDOUR J.-L., BOUREE F., SOUBEYROUX J.-L., ROUBIN M.- [Ferroelectric-paraelectric phase transition in \$\text{PbHf}_{0.2}\text{Ti}_{0.8}\text{O}_3\$ studied by neutron powder diffraction](#)

Journal of Physics : Condensed Matter **13** (2001) 6453-6470

BOGICEVIC C., LACOUR F., MALIBERT C., DKHIL B., MÉNORET C., DAMMAK H., GIORGI M.L., KIAT J.M. - [Synthesis of nanometric cubic \$\text{BaTiO}_3\$ by using an original chemical route: freeze-drying method](#)

Ferroelectrics , **270** (2002) 57-62

BORDERE S., BOUREE F., CHEVALIER B., ETOURNEAU J. - [Magnetic ground states of the tetragonal \$\text{U}_2\text{Fe}_2\text{Sn}\$ -type structure using an anisotropic RKKY exchange modeling](#)

Journal Magnetism and Magnetic Materials **253** (2002) 15-24

BOULET P., ANDRE G., BOUREE F., NOEL H. - [Neutron diffraction studies of the binary uranium stannides \$\text{USn}_2\$ and \$\text{U}_5\text{Sn}_7\$.](#)

Journal of Alloys and Compounds **329** (2001) 47-49.

BRINKS H. W., RODRIGUEZ-CARVAJAL J., FJELLVAG H., KJEKSHUS A., HAUBACK B. C. - [Crystal and magnetic structure of orthorhombic \$\text{HoMnO}_3\$.](#)

Physical Review B **63** (2001) 094411

CADAVEZ-PERES P., GONCHARENKO I.N., MIREBEAU I. - [Competing magnetic anisotropies in the mixed rare-earth Laves hydrides](#)

Physical-Review-B- **64** (2001) 094419

CADAVEZ-PERES P., GONCHARENKO I.N., MIREBEAU I., GLADKICH R., MAKAROVA O.L. - [Competing ferromagnetic and antiferromagnetic interactions in Laves hydrides](#)

Applied Physics A **74** (2002) S692-694

CAILLEAU H., LUTY T., LEMEE-CAILLEAU M. H., COLLET E., BURON-LE COINTE M., ZIENKIEWICZ E., MOUSSA F. - [Pressure tuning of condensation and ordering of charge-transfer strings.](#)

NATO Science Series, II: Mathematics, Physics and Chemistry (2001), 48(Frontiers of High Pressure Research II: Application of High Pressure to Low-Dimensional Novel Electronic Materials), 167-178

CHAPON L., RAVOT D., TEDENAC J.C., BOUREE-VIGNERON F. - [How cerium filling fraction influences thermal factors and magnetism in \$\text{Ce}_y\text{Fe}_{4-x}\text{Ni}_x\text{Sb}_{12}\$](#)

Materials Research Society Symposium Proceedings (2001) 626

CHEVRIER G., NAVAZA A., KIAT J.M., MONTI G.A., ZURIAGA M.J., MARTIN C.A., GUIDA J.A., LANZELOTTI P.L., AYMONINO P.J. - [Low temperature phase of strontium nitroprusside tetrahydrate \$\text{Sr}\[\text{Fe}\(\text{CN}\)_5\text{NO}\]\cdot 4\text{H}_2\text{O}\$ Refinement of the neutron structure at 60K](#)

Journal of Chemical Chemistry **31** (2002) 491-500

CHIPAUX R., ANDRE G., COUSSON A. - [Crystal structure of lead tungstate at 1.4 and 300 K](#)

Journal of Alloys and Compounds **325** (2001) 91-94

COLLET E., BURON-LE COINTE M., LEMEE-CAILLEAU M.H., CAILLEAU H., TOUPET L., MEVEN M., MATTAUCH S., HEGER G., KARL N. - [Structural evidence of ferrielectric neutral-ionic layered ordering in 2,-dimethyltetrahydrofulvalene-p-chloranil](#)

Physical Review B **63** (2001) 054104

COLLET E., LEMEE-CAILLEAU M.H., BURON-LE COINTE M., CAILLEAU H., RAVY S., LUTY T., BERAR J.F., CZARNECKI P., KARL N. - [Direct evidence of lattice-relaxed charge-transfer exciton-strings](#)

Europhysics Letters **57** (2002) 67-73

COUSTARD J.M., LE TOQUIN R., LEO R., PAULUS W., COUSSON A. - [\(E\)-5-\[Hydroxyimino\(phenyl\)methyl\]-1-methyl-3,4-dihydro-2H-pyrrolium trifluoromethanesulfonate.](#)

Acta Crystallographica, **C57** (2001) 815-816

COUSTARD J.M., LE TOQUIN R., LEO R., PAULUS W., COUSSON A. - [\(E\)-3-Methoxy-3-methylsulfanylisothiochroman-4-one oxime.](#)

Acta Crystallographica, **E57** (2001) 256-257

DAOUD-ALADINE A., RODRIGUEZ-CARVAJAL J., PINSART-GAUDARD L., FERNANDEZ-DIAZ M.T., REVCOLEVSKI A. - [Zener polaron ordering ion half-doped manganites](#)

Physical Review Letters **89** (2002) 097205

DAOUD-ALADINE A., RODRIGUEZ-CARVAJAL J., PINSART-GAUDARD L., FERNANDEZ-DIAZ M.T., REVCOLEVSKI A. - [Ordering of ferromagnetic Mn-Mn dimers vs. \$\text{Mn}^{3+}/\text{Mn}^{4+}\$ charge ordering in the \$\text{Pn}_{1-x}\text{Ca}_x\text{MnO}_3\$ \(\$x \approx 0.5\$ \) perovskites](#)

Applied Physics A **74** (2002) S1758-S1760



- DE LAISSARDIERE GT., MAYOU D., SIMONET V., HIPPERT F., AUDIER M., BELLISSENT R. - [Origin of magnetism in Al-Mn and Al-Pd-Mn quasicrystals, related crystals and liquids](#)
Journal Magnetism and Magnetic Materials **226** (2001) 1029-1031
- DEROLLEZ P., GONZALEZ J., HENNION B., FOURET R. - [Anharmonic properties of the AgGaSe₂ compound.](#)
Physica B **305** (2001) 191-196
- DEROLLEZ P., KLOTZ S., LAZEWSKI J., BRADEN M., DKHIL B., KIAT J. M., CALVARIN G., BALDINOZZI G., VAKHRUSHEV S. B., SUARD E. - [Local and long range polar order in the relaxor-ferroelectric compounds PbMg_{1/3}Nb_{2/3}O₃ and PbM_{0.3}Nb_{0.6}Ti_{0.1}O₃.](#)
Physical Review B **65** (2002) 024104
- DEROLLEZ P., KLOTZ S., LAZEWSKI J., BRADEN M., HENNION B., FOURET R., GONZALEZ J. - [Pressure dependence of acoustic modes in AgGaSe₂](#)
High Pressure Research **22** (2002) 283-286
- DKHIL B., KIAT J. M. - [Electric-field-induced polarization in the ergodic and nonergodic states of PbMg_{1/3}Nb_{2/3}O₃ relaxor.](#)
Journal of Applied Physics **90** (2001) 4676-4681.
- DURIVAUT L., BOUREE F., CHEVALIER B., ANDRE G., ETOURNEAU J., ISNARD O. - [Magnetic structure of the ternary germanide Ce₃Ni₂Ge₇.](#)
Journal Magnetism and Magnetic Materials **232** (2001) 139-146.
- DURIVAUT L., BOUREE F., CHEVALIER B., ANDRE G., ETOURNEAU J. - [Magnetic ordering in the ternary germanide Ce₂Ni₃Ge₅ as studied by neutron powder diffraction](#)
Journal Magnetism and Magnetic Materials **246** (2002) 366-374
- DURIVAUT L., BOUREE F., CHEVALIER B., ANDRE G., WEILL F., ETOURNEAU J. - [Magnetic structure of some strongly correlated electron Ce-Ni-Ge systems](#)
Applied Physics A **74** (2002) S677-S679
- EL KHALKI A., COLOMBAN PH., HENNION B. - [Nature of protons, phase transitions, and dynamic disorder in poly- and oligoaniline bases and salts: An inelastic neutron scattering study.](#)
Macromolecules **35** (2002) 5203-5211.
- EL KHAYATI N., CHERKAOUI EL MOURSIL R., RODRIGUEZ-CARVAJAL J., ANDRE G., BLANCHARD N., BOUREE F., COLLIN G., ROISNEL T. - [Crystal and magnetic structures of the oxyphosphates MFePO₃ \(M=Fe,Co,Ni,Cu\). Analysis of the magnetic ground state in terms of superexchange interactions](#)
European Physical Journal B **22** (2001) 429-442
- EL KHAYATI N., RODRIGUEZ-CARVAJAL J., BOUREE G., ROISNEL T., CHERKAOUI R., BOUTFESSI A., BOUKHARI A. - [Magnetic structure and exchange interactions in CuFe₂\(P₂O₇\)₂](#)
Solid State Sciences **4** (2002) 1273-1283
- ETRILLARD J., BOURGES PH., HE H. F., KEIMER B., LIANG B., LIN C. T. - [Acoustic phonons in the aperiodic layered crystal of Bi₂Sr₂CaCu₂O_{8-δ}](#)
Europhysics Letters **55** (2001) 201-207.
- FAUTH F., SUARD E., CAIGNAERT V., DOMENGENES B., MIREBEAU I. - [Interplay of structural, magnetic and transport properties in the layered Co-based-perovskite LnBaCo₂O₅ \(Ln=Tb, Dy, Ho\)](#)
European Physical Journal B **21** (2001) 163-174
- FAUTH F., SUARD E., CAIGNAERT V., MIREBEAU I. - [Spin-state ordered clusters in the perovskite LnBaCo₂O_{5,47}](#)
Physical Review B **66** (2002) 184421
- FRONTERA C., GARCIA-MUNOZ J. L., LLOBET A., ARANDA M. A. G., RODRIGUEZ-CARVAJAL J., RESPAUD M., BROTO J. M., RAQUET B., RAKOTO H., GOIRAN M. - [Structural, spin state, and magnetic transitions in GdBaCo₂O_{5.8} \(δ≈0.5\).](#)
Journal of Alloys and Compounds **323-324** (2001) 468-471
- FRONTERA C., GARCIA-MUNOZ J. L., LLOBET A., ARANDA M. A. G., RODRIGUEZ-CARVAJAL J., RESPAUD M., BROTO J. M., RAQUET B., RAKOTO H., GOIRAN M. - [Spin state transition: the origin of structural, magnetic and metal-insulator transitions in GdBaCo₂O_{5.8} \(δ≈0.5\).](#)
Journal Magnetism and Magnetic Materials **242-245** (2002) 751-753.
- GARCIA-MATRES E., MARTINEZ J. L., RODRIGUEZ-CARVAJAL J. - [Neutron diffraction study of the magnetic ordering in the series R₂BaNiO₅ \(R = Rare earth\).](#)
European Physical Journal B **24** (2001) 59-70.
- GONCHARENKO I. N., CADAVEZ-PERES P., OURNAL I., MAKAROVA O. L. - [Pressure-induced long-range magnetic order in the frustrated Laves hydride Tb\(Mn_{0.88}Al_{0.12}\)₂D_{1.04}.](#)
Europhysics Letters **54** (2001) 807-812.
- GUILLOT B., LECOMTE C., COUSSON A., SCHERF C., JELSCH C. - [High-resolution neutron structure of nicotinamide adenine dinucleotide.](#)
Acta Crystallographica **D57** (2001) 981-989.
- GUILLOT M., EI-GHOZZI M., AVIGNANT D., ANDRE G., BOUREE F., COUSSON A. - [Magnetic properties of a mixed-valence \(III/IV\) terbium fluoride KTbF₁₂](#)
Journal of Applied Physics **91** (2002) 8519-8521
- HENNION B., QUILICHINI M. - [An introduction to structure, physical properties, and applications](#)
In « QUASICRYSTALS » Springer Series in Materials Science **55** (2002), Eds J-B. Suck, M. Schreiber, P. Häussler, pp. 436-453
Chapitre 22: Experimental determination of the dispersion of vibrations in monodomain quasicrystalline alloys.
- HERNANDEZ-VELASCO J., SAEZ-PUCHE R., HOSER A., RODRIGUEZ-CARVAJAL J. - [Low temperature incommensurate magnetic order in R₂BaCoO₅ \[R=rare earth\]](#)
Applied Physics A **74** (2002) S781-S783
- HERNANDEZ O., HEDOUX A., LEFEBVRE J., GUINET Y., DESCAMPS M., PAPOULAR R., MASSON O. - [ab initio structure determination of triphenyl phosphite by powder synchrotron X-ray diffraction](#)
Applied Crystallographica **35** (2002) 212-219
- HERRMANNSDÖRFER T., FISCHER P., STRÄSSLE T., GONCHARENKO I.N., MATTENBERGER K., VOGT O. - [Temperature and pressure dependence of the ordered magnetic U moment of USe](#)
Applied Physics A **74** (2002) S754-S756
- HODGES J. A., BONVILLE P., FORGET A., ANDRE G. - [First-order transition in frustrated Yb₂T₁₂O₇ without long-range order.](#)
Canadian Journal of Physics **79** (2001) 1373-1380
- HODGES J. A., BONVILLE P., FORGET A., YAOUANC A., DALMAS DE REOTIER P., ANDRE G., RAMS M., KROLAS K., RITTER C., GUBBENS P. C. M., KAISER C. T., KING P. J. C., BAINES C. - [First-Order Transition in the Spin Dynamics of Geometrically Frustrated Yb₂T₁₂O₇.](#)
Physical Review Letters **88** (2002) 077204
- JOUBERT J.M., LATROCHE M., BOWMAN Jr. R.C., PERCHERON-GUEGAN A., BOUREE-VIGNERON F. - [Structural study of the LaNi_{4.6}Ge_{0.4}-D₂ system using X-ray and neutron powder diffraction](#)
Applied Physics A **74** (2002) S1037-S1039
- KAISER-MORRIS, E., NICOLAI, B., COUSSON, A., PAULUS, W., FILLAUX, F. - [2,6-Dimethylpyrazine at 5 K: a neutron-diffraction study.](#)
Acta Crystallographica, **E57** (2001) 1116-1117.
- KAISER-MORRIS, E., NICOLAI, B., COUSSON, A., PAULUS, W., FILLAUX, F. - [2,6-Dimethylpyrazine at 20 K: a neutron-diffraction study.](#)
Acta Crystallographica, **E57** (2001) 1113-1115.



- KAISERMAYR M., RENNHOFFER M., VOGL G., PAPPAS C., LONGEVILLE S. - [Neutron spin-echo spectroscopy for diffusion in crystalline solids](#).
Physical Review B **66** (2002) 024302
- KAMBAS. , KULDA J., PETRICEK V., MCINTYRE M.G., FRENANDEZ-DIAZ M.T., KIAT J.M., PELZELT J. - [High pressure structural and dielectric studies of the phase transitions in LTT](#)
Journal of Physics : Condensed Matter, **14** (2002) 4042-4055
- KIAT J.M., UESU Y., DKHIL B., MATSUDA M., MALIBERT C., CALVARIN G. - [Monoclinic structure of unpoled morphotropic high piezoelectric PMN-PT and PZN-PT compounds](#).
Physical Review B **65** (2002) 064106
- KLOTZ S., BRADEN M., KULDA J., PAVONE P., STEININGER B. - [Transverse acoustic phonons of GaSb up to 7 Gpa by inelastic neutron scattering](#)
Physica status solidi B **223** (2001) 441-447
- KREISEL J., DKHIL B., BOUVIER P., KIAT J.-M.. - [Effect of high pressure on relaxor ferroelectrics](#).
Physical Review B **65** (2002) 172101
- KREMENOVIC A., SPASOJEVIC-DE BIRE A., BOUREE F., COLOMBAN P., DIMITRIJEVIC R., DAVIDOVIC M., MIOC U.B. - [Structural modifications of dodecatungstophosphoric acid hexahydrate induced by temperature in the 10-358 K range. In situ high-resolution neutron powder diffraction investigation](#)
Solid State Ionics **150** (2002) 431-442
- KREZHOV K., SOMOGYVARI Z., MESZAROS Gy. SVAB E., NEDKOV I., BOUREE F. - [Neutron powder diffraction study of \(Co,Ti\)-substituted fine-particle Ba-hexaferrite](#)
Applied Physics A **74** (2002) S1086-S1088
- LAFOND A., LEYNAUD O., ANDRE G., BOUREE F., MEERSCHAUT A. - [Magnetic properties of \$\text{Ln}_2\text{Ti}_2\text{S}_2\text{O}_5\$ compounds and magnetic structure of \$\text{Tb}_2\text{Ti}_2\text{S}_2\text{O}_5\$](#) .
Journal of Alloys and Compounds **338** (2002) 185-193.
- LALIGANT Y., LACORRE P., RODRÍGUEZ-CARVAJAL J. - [Powder Structure Determination of \$\text{Li}_2\text{PdO}_3\$: a NaCl structure Type with Turbostratic Effect](#)
Materials Science Forum **378-381** (2001) 632-637
- LEFORT R., TOUDIC B., ETRILLARD J., GUILLAUME F., BOURGES P., CURRAT R., BREZIEWSKI T. - [Dynamical molecular disorder and diffuse scattering in an alkane/urea incommensurate inclusion compound](#).
European Physical Journal B **24** (2001) 51-57.
- LEMEE N., BOUYANFIF H., DELLIS J. L., EL MARSSI M., KARKUT M. G., DUPONT L., DKHIL B., KIAT J. M. - [Pulsed laser deposition of \$\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3\$ thin films and \$\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3/\text{PbTiO}_3\$ multilayers](#).
Journal de Physique IV (2001) **11** (Pr11)
TFDOM 2 International Conference on Thin Film Deposition of Oxide Multilayers Hybrid Structures, 2001), 65-69
- LETOUBLON A., DE BOISSIEU M., BOUDARD M., GASTALDI J., HENNION B., CAUDRON R., BELLISSENT R. - [Phason elastic constants and diffuse scattering in the i-Al-Pd-Mn phase](#).
Ferroelectrics **250** (2001) 261-264.
- LETOUBLON A., DE BOISSIEU M., BOUDARD M., MANCINI L., GASTALDI J., HENNION B., CAUDRON R., BELLISSENT R. - [Phason elastic constants of the icosahedral Al-Pd-Mn phase derived from diffuse scattering measurements](#).
Philosophical Magazine Letters **81** (2001) 273-283.
- LETOUBLON A., YAKHOU F., LIVET F., BLEY F., DE BOISSIEU M., MANCINI L., CAUDRON R., VETTER C., GASTALDI J. - [Coherent X-ray diffraction and phason fluctuations in quasicrystals](#)
Europhysics Letters **54** (2001) 753-759
- LIMOT L., MENDELS P., COLLIN G., MONDELLI C., MUTKA H., BLANCHARD N. - [Ga-NMR local susceptibility of the Kagome-based magnet \$\text{SrCr}_9\text{pGa}_{12-9\text{p}}\text{O}_{19}\$: a high-temperature study](#).
Canadian Journal of Physics **79** (2001) 1393-1399.
- LIMOT L., MENDELS P., COLLIN G., MONDELLI C., OULADDIAF B., MUTKA H., BLANCHARD N., MEKATA M. - [Susceptibility and dilution effects of the kagome.acted. bilayer geometrically frustrated network: A Ga NMR study of \$\text{SrCr}_9\text{pGa}_{12-9\text{p}}\text{O}_9\$](#) .
Physical Review B **65** (2002) 144447
- LIVET F., BLEY F., CAUDRON R., GEISLER E., ABERNATHY D., DETLEFS C., GRUBEL G., SUTTON M. - [Kinetic evolution of unmixing in an AlLi alloy using x-ray intensity fluctuation spectroscopy](#)
Physical Review E **63** (2001) 036108
- LIVET F., BLEY F., SIMON J.P., CAUDRON R., MAINVILLE J., SUTTON M., LEBOLLOCH D. - [Static and kinetics of the ordering transition in the \$\text{AuAgZn}_2\$ alloy](#)
Physical Review B **66** (2002) 134108
- LOUER D., BATAILLE T., ROISNEL T., RODRÍGUEZ-CARVAJAL J. - [The crystallite growth of nanocrystalline \$\text{Y}_2\text{O}_3\$ studied from diffraction lined-profile analysis](#)
Powder Diffraction **17** (2002) 262-269
- LUTY T., CAILLEAU H., KOSHIHARA S.-Y., COLLET E., TAKESADA M., LEMEE-CAILLEAU M.H., BURON M., RAVY S., NAGAOSA N., TOKURA Y., ZIENKIEWICZ E., OULADDIAL B. - [Static and dynamic order of cooperative multi-electron transfer](#)
Europhysics Letters **59** (2002) 619-625
- MAKAROVA O.L., GONCHARENKO I.N., IRODOVA A.V., MIREBEAU I., SUARD E. - [Interplay of magnetic and hydrogen ordering in the hexagonal Laves hydrides](#)
Physical Review B **66** (2002) 104423
- MANOUN B., EL JAZOULI A., GRAVEREAU P., CHAMINADE J.P. BOUREE F. - [Determination and Rietvelt refinement of the crystal structure of \$\text{Li}_{0.50}\text{Ni}_{0.25}\text{TiO}\(\text{PO}_4\)\$ from powder X-ray and neutron diffraction](#)
Powder diffraction **17** (2002) 290-294
- MAURY F., MIREBEAU I., NICOLAS-FRANCILLON M., BOUREE F. - [Hole doping by Li substitution and antiferromagnetism in \$\text{YBa}_2\text{Cu}_3\text{O}_y\$ studied by neutron powder diffraction measurements](#).
European Physical Journal B **27** (2002) 459-466.
- MAURY F., NICOLAS-FRANCILLON M., MIREBEAU I., BOUREE F. - [Antiferromagnetism in Li substituted \$\text{YBa}_2\text{Cu}_3\text{O}_y\$ studied by neutron powder diffraction measurements](#)
Physica C **353** (2001) 93-102
- MEINNEL J., COUSSON A., BOUDJADA F., PLAZANET M., MANI M. - [Delocalization of methyl groups protons or deuterons in molecular compounds](#).
Journal of Low Temperature Physics **122** (2001) 257-263.
- MENORET C., KIAT J. M., DKHIL B., DUNLOP M., DAMMAK H., HERNANDEZ O. - [Structural evolution and polar order in \$\text{Sr}_{1-x}\text{Ba}_x\text{TiO}_3\$](#) .
Physical Review B **65** (2002) 224104
- MENORET C., SPASOJEVIC-DE BIRE A., DAO N.Q., COUSSON A., KIAT J. M., MANNA J.D., HOPKINS M.D. - [Chemical bonding in methylidyne complexes : neutron diffraction study on a single crystal of \$\text{BrW-tplbond.CH}\(\text{dmpe-d12}\)_2\$](#)
Journal of the Chemical Society, Dalton Transactions n°19 (2002) 3731-3736
- MIREBEAU I., GONCHARENKO I.N., GOLOSOVSKY I.V. - [Neutron diffraction in \$\text{Ho}\(\text{Mn}_{0.9}\text{Al}_{0.1}\)_2\$ under pressure up to 7.8 Gpa : Long-range magnetic order induced by pressure in a frustrated system](#)
Physical Review B (Rapid communications) **64** (2001) 140401



- MIREBEAU I., GONCHARENKO I.N., CADAVEZ-PERES P., BRAMWELL S.T., GINGRAS M.J.P., GARDNER J.S. - [Pressure-induced crystallization of a spin liquid](#) *Nature* **420** (2002) 54-57
- MULLER C., VALMALETTE J.C., SOUBEYROUX J.L., BOURÉE F., GAVARRI J.R. - [Structural disorder and ionic conductivity in \$\text{LiVO}_3\$: a neutron powder diffraction study from 340 to 890 K](#) *Journal of Solid State Chemistry* **156** (2001) 379-389
- NAVAZA A., CHEVRIER G., KIAT J.M., BARAN E.J. - [Neutron diffraction structure of \$\text{Y}_2\text{V}_{10}\text{O}_{28} \cdot 24\text{H}_2\text{O}\$ at 297 and 60K](#) *Journal of Chemical Crystallography*, **30** (2001) 545-555
- NAVAZA A., CHEVRIER G., KIAT J.M., BARBEY C. - [Contribution of neutron diffraction to the crystal structure determination of 1-hydroxy-1-phosphono-pentyl-phosphonic acid dimethyl ammonium salt](#) *Journal of Solid State Chemistry* **167** (2002) 441-445
- NICOLAI B., KEARLEY G.J., COUSSON A., PAULUS W., FILLAUX F., GENTNER F., SCHRODER L., WATKIN D. - [Structure of manganese diacetate tetrahydrate and low-temperature methyl-group dynamics](#) *Acta Crystallographica B* **57** (2001) 36-44
- PAULUS W., COUSSON A., DHALENNE G., BERTHON J., REVCOLEVSCHI A., HOSOYA S., TREUTMANN W., HEGER G., LE TOQUIN R. - [Neutron diffraction studies of stoichiometric and oxygen intercalated \$\text{La}_2\text{NiO}_4\$ single crystals](#) *Solid state Sciences* **4** (2002) 565-573
- PIERRARD A., GREDIN P., DE KOZAK A., VIANA B., ASCHEHOUG P., VIVIEN D., DEROUET J., BOUREE-VIGNERON F. - [Structural characterization of \$\text{KLa}_2\text{F}_7\$: \$\text{Nd}^{3+}\$](#) *Physica Status Solidi B* **226** (2002) 329-338
- PINSARD-GAUDART L., RODRIGUEZ-CARVAJAL J., DAOUD-ALADINE A., GONCHARENKO I., MEDARDE M., SMITH R. I., REVCOLEVSCHI A. - [Stability of the Jahn-Teller effect and magnetic study of \$\text{LaMnO}_3\$ under pressure.](#) *Physical Review B* **64** (2001) 064426
- PLAZANET M., JOHNSON M.R., COUSSON A., MEINNEL J., TROMMSDORFF H.P. - [Molecular deformations of halogenomesitylenes in the crystal: structure, methyl group rotational tunneling, and numerical modeling](#) *Chemical Physics* **285** (2002) 299-308
- QUILICHINI M., PEREZ-MATO J. M., ARAMBURU I., HERNANDEZ O - [Polarization-flip transition under electric field in BCCD.](#) *European Physical Journal B* **25** (2002) 431-438.
- RABILLER P., ETRILLARD J., TOUPET L., KIAT J. M., LAUNOIS P., PETRICEK V., BREZIEWSKI T. - [Disorder versus structure analysis in intergrowth urea inclusion compounds.](#) *Journal of Physics: Condensed Matter* **13** (2001) 1653-1668
- RADULESCU O., JANSSEN T., ETRILLARD J - [Dynamics of modulated and composite aperiodic crystals - The signature of the inner polarization in the neutron coherent inelastic scattering](#) *European Physical Journal* **29** (2002) 385-398
- RECKO K., SZYMANSKI K., DOBRZYNSKI L., WALISZEWSKI J., BIERNACKA M., SATULA D., PERZYNSKA K., SUSKI W., WOCHOWSKI K., HOSER A., ANDRE G., BOUREE F. - [Magnetism of \$\text{UFe}_x\text{Al}_{18-x}\$ \(\$x < 0.4, 0.4 >\$ \) intermetallics.](#) *Journal of Alloys and Compounds* **323-324** (2001) 531-533.
- RECKO K., SZYMANSKI K., DOBRZYNSKI L., SATULA D., SUSKI W., WOCHOWSKI K., ANDRE G., BOUREE F., HOSER A. - [Magnetism of the \$\text{UFe}_x\text{Al}_{12-x}\$ alloys.](#) *Journal of Alloys and Compounds* **334** (2002) 58-67.
- REDHAMMER G. J., ROTH G., PAULUS W., ANDRE G., LOTTERMOSER W., AMTHAUER G., TREUTMANN W., KOPPELHUBER-BITSCHNAU B. - [The crystal and magnetic structure of Li-aegirine \$\text{LiFe}_3\text{Si}_2\text{O}_6\$: a temperature-dependent study.](#) *Physics and Chemistry of Minerals* **28** (2001) 337-346.
- RESPAUD M., FRONTERA C., GARCIA-MUNOZ J.L., ARANDA MIGUEL A.G., RAQUET B., BROTO J.M., RAKOTO H., GOIRAN M., LLOBET A., RODRIGUEZ-CARVAJAL J. - [Magnetic and magnetotransport properties of \$\text{GdBaCo}_2\text{O}_{5.8}\$: a high magnetic-field study.](#) *Physical Review B* **64** (2001) 214401
- REUTLER P., MOUSSA F., HENNION M., WANG F., REVCOLEVSCHI A. - [Spin wave anomalies and phonons at low temperature in \$\text{La}_{0.875}\text{Sr}_{0.125}\text{MnO}_3\$.](#) *Journal Magnetism and Magnetic Materials* **242-245** (2002) 689-691.
- RODRIGUEZ-CARVAJAL J. - [Personal reflections: What is Crystallography ?](#) *Zeitschrift für Kristallographie* **217** (2002) 361-362
- RODRIGUEZ-CARVAJAL J., DAOUD-ALADINE A., PINSARD-GAUDART L., FERNANDEZ-DIAZ M. T., REVCOLEVSCHI A. - [A new interpretation of the CO state in half-doped manganites: new results from neutron diffraction and synchrotron radiation experiments.](#) *Physica B* **320** (2002) 1-6.
- ROLS S., GONCHARENKO I.N., ALMAIRAC R., SAUVAJOL J.L., MIREBEAU I. - [Poligonisation of single-wall carbon nanotube bundles under high pressure](#) *Physical Review B* **64** (2001) 153401
- ROUSSE G., WURM C., MORCLETTE M., RODRIGUEZ-CARVAJAL J., GAUBICHER J., MASQUELIER C. - [Crystal structure of a new vanadium \(IV\) diphosphate: \$\text{VP}_2\text{O}_7\$, prepared by lithium extraction from \$\text{LiVP}_2\text{O}_7\$.](#) *International Journal of Inorganic Materials* **3** (2001) 881-887.
- ROUSSE G., RODRIGUEZ-CARVAJAL J., WURM C., MASQUELIER C. - [Magnetic Structural Studies of the Two Polymorphs of \$\text{Li}_3\text{Fe}_2\(\text{PO}_4\)_3\$: Analysis of the Magnetic Ground State from Super-Super Exchange Interactions.](#) *Chemistry of Materials* **13** (2001) 4527-4536
- ROUSSE G., RODRIGUEZ-CARVAJAL J., WURM C., MASQUELIER C. - [A neutron diffraction study of the antiferromagnetic diphosphate \$\text{LiFeP}_2\text{O}_7\$.](#) *Solid State Sciences* **4** (2002) 973-978.
- ROUSSE G., RODRIGUEZ-CARVAJAL J., WURM C., MASQUELIER C. - [Magnetic structure of two lithium iron phosphates: A- and B- \$\text{Li}_3\text{Fe}_2\(\text{PO}_4\)_3\$](#) *Applied Physics A* **74** (2002) S704-S706
- SANTUCCI S., LOZZI L., VALENTINI L., KENNY J.M., MENELLE A. - [Hydrogen concentration and mass density obtained by X-ray and neutron reflectivity on hydrogenated amorphous carbon nitride thin films](#) *Diamond and Related Materials* **11** (2002) 1188-1192.
- SANTUCCI S., VALENTINI L., MENELLE A., LOZZI L., COPPOLA R., KENNY J.M. - [Ar dilution effects on hydrogen concentration and mass density obtained by X-ray and neutron reflectivity on hydrogenated amorphous nitride thin films](#) *Applied Physics A* **74** (2002) S1104-S1106
- SCHOBINGER-PAPAMANTELLOS P., RODRIGUEZ-CARVAJAL J., ANDRE G., DUONG N. P., BUSCHOW K. H. J., TOLEDANO P. - [Simultaneous structural and magnetic transitions in \$\text{YFe}_4\text{Ge}_2\$ studied by neutron diffraction and magnetic measurements.](#) *Journal Magnetism and Magnetic Materials* **236** (2001) 14-27.



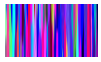
- SCHOBINGER-PAPAMANTELOS P., ANDRE G., RODRIGUEZ-CARVAJAL J., BUSCHOW K. H. J., DURIVAUT L. - [Magnetic ordering of CeNi_{0.78}Sn₂ and Ce₃Ni₂Sn₇ compounds by neutron diffraction](#).
Journal of Alloys and Compounds **325** (2001) 29-36.
- SCHOBINGER-PAPAMANTELOS P., ANDRE G., RODRIGUEZ-CARVAJAL J., MOZE O., KOCKELMANN W., TUNG L. D., BUSCHOW K. H. J. - [Magnetic ordering of PrCoAl₄ a neutron diffraction study](#).
Journal Magnetism and Magnetic Materials **231** (2001) 162-171.
- SCHOBINGER-PAPAMANTELOS P., ANDRE G., RODRIGUEZ-CARVAJAL J., DUONG N. P., BUSCHOW K. H. J. - [Multiple competing interactions and reentrant ferrimagnetism in Tb_{0.8}Nd_{0.2}Mn₆Ge₆](#).
Journal Magnetism and Magnetic Materials **231** (2001) 121-134.
- SCHOBINGER-PAPAMANTELOS P., RODRIGUEZ-CARVAJAL J., BUSCHOW K.H., DOORYHEE E., FITCH AN. - [Re-entrant magneto-elastic transition in HoFe₂Ge₂: an XRPD study](#)
Journal Magnetism and Magnetic Materials **250** (2002) 225-240
- SENAS A., RODRIGUEZ FERNANDEZ J., GOMEZ SAL J.C., GONCHARENKO I. - [Pressure-induced antiferromagnetism in TbPt and TbPt_{0.6}Cu_{0.4}: a neutron-diffraction study](#)
Applied Physics A **74** (2002) S786-S788
- SHRAMCHENKO N., DENOYER F. - [The Al-Pd-Mn quasicrystalline approximant \$\xi\$ -phase revisited](#)
European Physical Journal B **29** (2002) 56-59
- SILVESTRE J.P., DAO N.Q., HEGER G., COUSSON A. - [Refinement by neutron diffraction of the crystal structure of hydroxyethylidenebisphosphonic acid monohydrate : C\(CH₃\)\(OH\)PO₃H₂.H₂O](#)
Phosphorus, Sulfur and Silicon and the Related Elements **177** (2002) 277-288
- SIMONET V., HIPPERT F., AUDIER M., BELLISSENT R. - [Mn/Cr isomorphic substitution in \$\mu\$ Al₄MnxCr_{1-x} phase compounds \(0 <= x <= 1\)](#)
Physica B **315** (2002) 187-200
- SOMOGYVARI Z., SVAB E., MESZAROS G., KREZHOV K., NEDKOV I., SAJO I., BOUREE F. - [Vacancy ordering in nanosized maghemite from neutron and X-ray powder diffraction](#)
Applied Physics A **74** Part 2 (2002) S1077-S1079
- SOMOGYVARI Z., SVAB E., MESZAROS G.Y., KREZHOV K., KONSTANTINOV P., NEDKOV I., BOUREE F. - [Nanosize effects on the microstructure of BaFe_{10.3}Co_{0.85}Ti_{0.85}O₉ hexaferrite](#).
Journal of Applied Physics **91** (2002) 6185-6187.
- STRIDE JA., JAYASOORIYA UA., MBOGO N., WHITE RP., NICOLAI A., KEARLEY G.J. - [Hydrogen-bonding in the self-organising system 3,5-dimethylpyrazole](#)
New Journal of Chemistry **25** (2001) 1069-1072
- SZWARC H., GRELL A.-S., MASIN F., TAMARIT J. LL., VAN MILTENBURG J. C., ALLOUCHI H., AGAFONOV V., RODRIGUEZ-CARVAJAL J., CEOLIN R. - [The C₆₀, 2S8 solvate: Mysteries and certainties](#).
Journal de Physique IV: Proceedings (2001) **11** (Pr10), XXVII JEEP, Journées d'Etude des Equilibres entre Phases, (2001) 41-45.
- TARASENKO V. F., ALEKSEEV S.B., FEDENEV A.V., GONCHARENKO I. M., KOVAL N.N., OSKOMOV K.K.V., ORLOVSKII V. M., SOCHUGOV N.S., SHULEPOV M.A. - [Study on IR and UV-laser interaction with metal surfaces](#).
SPIE-The Inter. Society for Optical Engineering (2002) 4631 (Gas and Chemical Lasers and Intense Beam Applications III) 234-243.
- TEJADA-ROSALES EM., RODRIGUEZ-CARVAJAL J., CASANPASTOR N., ALEMANY P., RUIZ E., EL-FALLAH MS., ALVAREZ S., GOMEZ-ROMERO P. - [Room-temperature synthesis and crystal, magnetic, and electronic structure of the first silver copper oxide](#)
Inorganic Chemistry **41** (2002) 6604-6613
- TELLGREN R., ANDERSSON Y., GONCHARENKO I., ANDRE G., BOUREE F., MIREBEAU I. - [High-pressure neutron diffraction studies of the magnetic structures of cubic Pd₃Mn, Pd₃MnD_{0.7}](#)
Journal of Solid State Chemistry **161** (2001) 93-96
- TENAILLEAU C., SUARD E., RODRIGUEZ-CARVAJAL J., CROSNIER-LOPEZ M. P., LACORRE P. - [Effect of Mo Doping on the Room-Temperature Structure of Vanadium Sesquioxide](#).
Chemistry of Materials **14** (2002) 3569-3575.
- TOUGAIT O., ANDRE G., BOUREE F., NOEL H. - [Neutron diffraction study of magnetic ordering of two binary uranium tellurides U₃Te₅ and U₂Te₃](#).
Journal of Alloys and Compounds **317-318** (2001) 227-232.
- TRAN V.H., KACZOROWSKI D., TROC R., ANDRE G., BOUREE F., ZAREMBA V. - [Magnetic structure of the Kondo UCu₅In](#)
Solid State Communications **117** (2001) 527-530
- TRAN V. H., STEGLICH F., ANDRE G. - [Antiferromagnetic order with short correlation length and Kondo interactions in U₂PdGa₃ and U₂PtGa₃](#).
Physical Review B **65** (2002) 134401
- ULRICH C., KONDO S., REEHUIS M., HE H., BERNHARD C., NIEDERMAYER C., BOUREE F., BOURGES P., OHL M., RONNOW H. M., TAKAGI H., KEIMER B. - [Structural and magnetic instabilities of La_{2-x}Sr_xCaCu₂O₆](#).
Physical Review B **65** (2002) 220507
- VAJDA P., ANDRE G. - [Commensurate and incommensurate magnetic structures in rare-earth hydrides](#).
Journal of Alloys and Compounds **326** (2001) 151-156.
- VANHOYLAND G., BOUREE F., VAN BAEL M.K., MULLENS J., VAN POUCKE L.C. - [Structure determination and refinement of acid strontium oxalate from X-ray and neutron powder diffraction](#)
Journal of Solid State Chemistry **157** (2001) 283-288
- VIEIRA L. G., HERNANDEZ O., RIBEIRO J. L., COUSSON A., KIAT J. M., CHAVES M. R., ALMEIDA A., KLOPPERPIEPER A. - [Structure of the X-phase of 38% brominated betaine calcium chloride dihydrate](#).
Acta Crystallographica **B57** (2001) 296-302.
- VILMINOT S., RICHARD-PLOUET M., ANDRE G., SWIERCZYNSKII D., BOUREE-VIGNERON F., MARINO E., GUILLLOT M. - [Synthesis, structure and magnetic properties of copper hydroxysulfates](#)
Crystal Engineering **5** (2002) 177-186

2 - MAGNETISM AND SUPERCONDUCTIVITY

- ALEKSEEV P.A., NEFEODOVA E.V., STAUB U., MIGNOT J.-M., LAZUKOV V.N., SADIKOV I.P., SODERHOLM L., WASSERMANN S., PADERNO YU.B., SHITSEVALOVA N. Yu., MURANI A. - [Low-energy response and Yb valence in the Kondo insulator YbB₁₂](#)
Physical Review B **63** (2001) 64411
- ALEKSEEV P.A., MIGNOT J.M., OCHIAI A., NEFEODOVA E.V., SADIKOV I.P., CLEMENTYEV E.S., LAZUKOV V.N., BRADEN M., NEMKOVSKI K.S. - [Collective magnetic excitations in mixed-valence Sm_{0.83}Y_{0.17}S](#)
Physical Review B **65** (2002) 153201



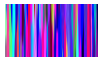
- ALEKSEEV P. A., MIGNOT J.-M., STAUB U., OCHIAI A., OLUBKOV A. V., BRADEN M., BEWLE R. I., NEFEODOVA E. V., SADIKOV I. P., CLEMENTYEV E. S., LAZUKOV V. N., NEMKOVSKI K. S. - *f-Electron excitations in the neutron spectra of mixed-valence $\text{Sm}_{1-x}\text{Y}_x\text{S}$* . Physica B **312&313** (2002) 333-335.
- ALEKSEEV P. A., MIGNOT J.-M., NEMKOVSKI K.S., KAHN R., SHITSEVALOVA N.YU., BEWLEY R.I., ECCLESTON R.S., CLEMENTYEV E. S., LAZUKOV V. N., NEFEODOVA E. V., SADIKOV I. P., TIDEN N.N. - *Yb-Yb correlations and crystal field in the Kondo-insulator YbB_{12}* . Applied Physics A, **74** (2002) S662-S664
- BIOTTEAU G., HENNION M., MOUSSA F., RODRIGUEZ-CARVAJAL J., PINSARD L., REVCOLEVSHI A., MUKOVSKII Y.M., SHULYATEV D. - *Approach to the metal-ins transition in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ($0 \leq x \leq 0.2$): magnetic inhomogeneity and spin-wave anomaly*. Physical Review B **64** (2001) 104421
- BOBROFF J., ALLOUL H., MacFARLANE W.A., MENDELS P., BLANCHARD N., COLLIN G., MARUCCO J.F. - *Persistence of Li induced Kondo moments in the superconducting state of cuprates*. Physical Review Letters **86** (2001) 4116-4119
- BOBROFF J., ALLOUL H., OUAZI S., MAHAJAN A., MENDELS P., BLANCHARD N., COLLIN G., GUILLEN V., MARUCCO J.F. - *Absence of static phase separation in the high T_c cuprate $\text{Yb}_2\text{Cu}_3\text{O}_{6-x}$* . Physical Review Letters **89** (2002) 157002
- BORGES R. P., GUICHARD W., LUNNEY J. G., COEY J. M. D., OTT F. - *Magnetic and electric "dead" layers in $(\text{La}_{0.7}\text{Sr}_{0.3})\text{MnO}_3$ thin films*. Journal of Applied Physics **89** (2001) 3868-3873.
- BRADEN M., MEVEN M., REICHARDT W., PINTSCHOVIVUS L., FERNANDEZ-DIAZ M.T., HEGER G., NAKAMURA F., FUJITA T. - *Analysis of the local structure by single crystal neutron scattering in $\text{La}_{1.85}\text{Sr}_{0.15}\text{CuO}_4$* . Physical Review B **63** (2001) 140510 (rapid comm.)
- BRADEN M., REICHARDT W., SHIRYAEV S., BARILO S.N. - *Giant phonon anomalies in the bond-stretching modes in doped BaBiO_3 : comparison to cuprates manganites and nicklates*. Physica C **378-381** (2002) 89-96
- BRADEN M., FRIEDT O., SIDIS Y., BOURGES P., MINAKATA M., MAENO Y. - *Incommensurate magnetic ordering in $\text{Sr}_2\text{Ru}_{1-x}\text{Ti}_x\text{O}_4$* . Physical Review Letters **88** (2002) 197002
- BRADEN M., SIDIS Y., BOURGES P., PFEUTY P., KULDA J., MAO Z., MAENO Y. - *Inelastic neutron scattering study of magnetic excitations in Sr_2RuO_4* . Physical Review B **66** (2002) 64522
- BRADEN M., REICHARDT W., HENNION B., DHALENNE G., REVCOLEVSHI A. - *Lattice dynamics of CuGeO_3 : Inelastic neutron scattering and model calculations*. Physical Review B **66** (2002) 214417
- DANNEAU R., WARIN P., ATTANE J. P., PETEJ I., BEIGNE C., FERMON C., KLEIN O., MARTY A., OTT F., SAMSON Y., VIRET M. - *Individual domain wall resistance in submicron ferromagnetic structures*. Physical Review Letters **88** (2002) 157201
- FRIEDT O., BRADEN M., ANDRE G., ADELMAN P., NAKATSUJI S., MAENO Y. - *Structural and magnetic aspects of the metal insulator transition in $\text{Ca}_{2-x}\text{Sr}_x\text{RuO}_4$* . Physical Review B **63** (2001) 174432
- FRIEDT O., BRADEN M., ANDRE G., NAKATSUJI S., MAENO Y. - *Neutron-diffraction study of the crystal structure of $\text{Ca}_{1.5}\text{Sr}_{0.5}\text{Ru}$* . Applied Physics A **74** (2002) S1627-S1629
- GALLAIS Y., SACUTO A., BOURGES P., SIDIS Y., FORGET A., COLSON D. - *Evidence for two distinct energy scales in the Raman spectra of $\text{YB}_{2}(\text{Cu}_{1-x}\text{Ni}_x)_3\text{O}_{6.95}$* . Physical Review Letters **88** (2002) 177401
- GILLON B. - *Spin distributions in molecular systems with interacting transition metal ions*. Editor(s): Miller Joel S., Drillon Marc. Magnetism: Molecules to Materials (2001) 357-378. Publisher: Wiley-VCH Verlag GmbH, Weinheim, Germany
- GILLON B., MATHONIERE C., RUIZ E., ALVAREZ S., COUSSON A., KAHN O. - *Spin densities in a ferromagnetic bimetallic chain compound: polarized neutron diffraction and DFT calculations*. Journal of American Chemical Society **124** (2002) 14433-14441
- GOLOSOVSKY I.V., MIREBEAU I., ANDRE G., KURDYUKOV D.A., KUMZEROV Yu. A., VAKHRUSHEV S.B. - *Magnetic ordering and phase transition in MnO embedded into a porous glass*. Physical Review Letters **86** (2001) 5783-5786
- GOLOSOVSKY I.V., MIREBEAU I., MARKOSYAN A.S., FISHER P., POMIAKUSHIN V. Yu. - *Neutron diffraction study of the magnetic order in the $\text{Dy}(\text{Mn}_{1-x}\text{Al}_x)_2$ system in the region of a magnetic instability*. Physical Review B **65** (2002) 014405
- GOLOSOVSKY I.V., MIREBEAU I., RODRIGUEZ-CARVAJAL J., ROISNEL T., MARKOSYAN A.S. - *Evolution of the magnetic order in $\text{Ho}(\text{Mn}_{1-x}\text{Al}_x)_2$ system. Neutron Diffraction study*. Journal of Physics: Condensed Matter **14** (2002) 11737-11745
- GUIDI M., CESTELLI, ALLODI G., DE RENZI R., GUIDI G., HENNION M., PINSARD L., AMATO A. - *Staggered magnetization, critical behavior, and weak ferromagnetic properties of LaMnO_3 by muon spin rotation*. Physical Review B **64** (2001) 064414
- GUKASOV A., BRADEN M., PAPOULAR R. J., NAKATSUJI S., MAENO Y. - *Anomalous Spin-Density Distribution on Oxygen and Ru in $\text{Ca}_{1.5}\text{Sr}_{0.5}\text{RuO}_4$: Polarized Neutron Diffraction Study*. Physical Review Letters **89** (2002) 087202
- GUKASOV A., BROWN P.J. - *Determination of atomic site susceptibility tensors from polarized neutron diffraction data*. Journal of Physics: Condensed Matter **14** (2002) 8831-8839
- GUKASOV A., ROGL P., BROWN P.J., MIHALIK M., MENOVSKY A. - *Site susceptibility tensors and magnetic structure of $\text{U}_3\text{Al}_2\text{Si}_3$: a polarized neutron diffraction study*. Journal of Physics: Condensed Matter **14** (2002) 8841-8851
- HE H., SIDIS Y., BOURGES P., GU G.D., IVANOV A., KOSHIZUKA N., LIANG J., LIN C.T., REGNAULT L.P., SCHOENHERR E., KEIMER B. - *Resonant spin excitation in an overdoped high temperature superconductor*. Physical Review Letters **86** (2001) 1610-1613
- HE H., BOURGES P., SIDIS Y., ULRICH C., REGNAULT L.P., PAILHES S., BERZIGIAROVA N.S., KOLESNIKOV N.N., KEIMER B. - *Magnetic resonant mode in the single-layer high temperature superconductor $\text{Tl}_2\text{Ba}_2\text{Cu}_{6-d}$* . Science **295** (2002) 1045-1047.
- HENNION B., HICKS T. J., SIDIS Y., MIREBEAU I. - *The dynamics of transverse magnetic defects in antiferromagnetic $\text{Mn}_9\text{Cu}_{10}$* . Journal Magnetism and Magnetic Materials **226-230** (2001) 512-514.
- HENNION M., MOUSSA F., WANG F., MUKOVSKII Y., SHULYATEV D. - *Spin wave anomalies interpreted as unusual magneto-vibrational modes in $\text{La}_{0.8}\text{Ca}_{0.2}\text{MnO}_3$* . Physica B **312&313** (2002) 752-753.



- HENNION B., SZUSZKIEWCZ W., DYNOWSKA E., JANIK E., WOJTOWICZ T. - [Spin-wave measurements on MBE-grown zinc-blende structure MnTe by inelastic neutron scattering](#)
Physical Review B **66** (2002) 224426
- HODGES J. A., SIDIS Y., BOURGES P., MIREBEAU I., HENNION M., CHAUD X. - [Antiferromagnetic ordering in a 90 K copper oxide superconductor.](#)
Physical Review B **66** (2002) 020501
- IVANOV A. S., BOURGES P., PETITGRAND D., CASALTA H. - [High-energy spin dynamics in \$Pt_2CuO_4\$.](#)
Journal Magnetism and Magnetic Materials **226-230** (2001) 485-486.
- IWASA K., KOHGI M., GUKASOV A., MIGNOT J.M., SHIBATA N., OCHIAI A., AOKI H., SUZUKI T. - [Polarized neutron study of one dimensional magnetic response under magnetic field in the charge-ordered phase of \$YbAs_3\$](#)
Journal Magnetism and Magnetic Materials **226-230** (2001) 441-443
- IWASA K., KOHGI MA. GUKASOV A., MIGNOT J.M., SHIBATA N., OCHIAI A., AOKI H., SUZUKI T. - [Staggered-field effect on the magnetic-field-induced magnetization of the one-dimensional antiferromagnet \$YbAs_3\$.](#)
Physical Review B **65** (2002) 052408
- IWASA K., HANNAN A., KOHGI MA. BRADEN M., MIGNOT J.M., KITAWAZA H., SUZUKI T. - [Crystal lattice modulation and phonon anomaly associated with strong p-f mixing effect of CeSb](#)
Applied Physics A **74** (2002) S1179-S1181
- KEIMER B., HE H., BOURGES P., SIDIS Y., ULRICH C., REGNAULT L.P., PAILHES S., BERZIGIAROVA N.S., KOLESNIKOV N.N. - [Inelastic neutron scattering study of \$Tl_2Ba_2Cu_{6-\delta}\$](#)
Journal of Physics and Chemistry of Solids **63** (2002) 2243-2246.
- KOHGI M., IWASA K., MIGNOT J.M., FAK B., GEGENWART P., LANG M., OCHIAI A., OAKI H., SUZUKI T. - [Staggered field effect on the one-dimensional \$S=1/2\$ antiferromagnet \$YbAs_3\$](#)
Physical Review Letters **86** (2001) 2439-2442
- KOHGI M., IWASA K., MIGNOT J.-M., FAK B., HIESS A., GEGENWART P., LANG M., OCHIAI A., AOKI H., SUZUKI T. - [Spin excitations of the one-dimensional \$S=12\$ Heisenberg antiferromagnet \$YbAs_3\$ under magnetic field.](#)
Physica B **312&313** (2002) 359-361.
- KOHGI M., IWASA K., MIGNOT J.-M., GUKASOV A., FAK B., HIESS A., OCHIAI A., AOKI H. - [Neutron scattering studies of the one-dimensional quantum spin magnetism in \$YbAs_3\$](#)
Applied Physics A **74** (2002) S871-S873
- LAZUKOV V.N., NEFEODOVA E.V., SIKOLENKO V.V., STAUB U., ALEKSEEV P.A., BRADEN M., NEMKOVSKI K.S., PRADERVAND C., SADIKOV I.P., SODERHOLM L., TIDEN N.N. - [Lattice anomalies in CeNi unstable valence compound](#)
Applied Physics A **74** (2002) S559-S561
- LE BRAS G., KONSTANTINOVIC Z., COLSON D., FORGET A., CARTON J.P., AYACHE C., JEAN F., COLLIN G., DUMONT Y. - [Anomalous electronic susceptibility in \$Bi_2Sr_2CuO_{6-\delta}\$ and comparison with other overdoped cuprates](#)
Physical Review B **66** (2002) 174517
- LOEWENHAUPT M., WITTE U., KRAMP S., BRADEN M., SVOBODA P. - [Unusual phonon softening in the Kondo lattice CeCu](#)
Physica B **312-313** (2002) 181-183
- LOSHKAREVA N. N., ARBUZOVA T. I., SMOLYAK I. B., SOLIN N. I., NAUMOV S. V., SUKHORUKOV YU. P., MOSTOVSHCHIKOVA E. V., VIGLIN N. A., KOROLYOV A. V., BALBASHOV A. M., HENNION M., MOUSSA F., PAPAVALIIOU G. - [Charge segregation in manganites with electron doping](#)
Journal Magnetism and Magnetic Materials **242-245** (2002) 704-706.
- MACFARLANE W. A., BOBROFF J., MENDELS P., CYROT L., ALLOUL H., BLANCHARD N., COLLIN G., MARUCCO J.-F. - [Planar \$17O\$ NMR study of \$Pt_2Y_{1-y}Ba_2Cu_3O_{6+x}\$.](#)
Physical Review B **66** (2002) 024508
- MIGNOT J.-M., GONCHARENKO I.N., MATSUMURA T., SUZUKI T. - [Stabilisation of type I-antiferromagnetism in TmTe at \$P=6\$ Gpa](#)
Journal Magnetism and Magnetic Materials **226-230** (2001) 211-213
- MIGNOT J.-M., GUKASOV A., YANG C.P., LINK P., MATSUMURA T., SUZUKI T. - [Antiferroquadrupolar order in the magnetic semiconductor TmTe](#)
Journal Physical Society of Japan **71** (2002) Sppl. 39
- MIKKE K., JANKOWSKA-KISIELINSKA J., HENNION B. - [The generalized susceptibility of FCC Mn\(38%Ni\) alloy](#)
Applied Physics A **74** (2002) S616-S618
- MIKKE K., JANKOWSKA-KISIELINSKA J., HENNION B., UDOVENKO V.A., MILCZAREK J.J. - [Spin waves in the intermetallic compound Mn](#)
Applied Physics A **74** (2002) S670-S672
- MOUSSA F., REUTLER P., HENNION M., RODRIGUEZ-CARVAJAL J., WANG F., REVCOLEVSKI A., BÜCHNER B. - [Strong spin wave anomalies in \$La_{1-x}Sr_xMnO_3\$, \$x=0.125\$.](#)
Applied Physics A **74** (2002) S1790-S1792
- ONUFRIEVA F., PFEUTY P. - [Spin dynamics of a two-dimensional metal in a superconducting state : application to the high \$T_c\$ cuprates](#)
Physical Review B **65** (2002) 054515
- OTT F. - [Réflectivité hors spéculaire et diffraction de surface](#)
Journal de Physique IV (France) **11** (2001) Pr9- pp. 67-101
- OTTLIK A., PINTSCHOVIVUS L., MULLER H., LOHE D. - [Stresses, residual stresses and distortions developing during brazing of cemented carbide and steel joints with cylindrical geometry](#)
ECRS 6: Proceedings of the 6th European Conference on Residual Stresses - Materials Science Forum **404** (2002) 233-238
- PAPOULAR R.J., COLLIN G., COLSON D., VIALLET V. - [Direct Imaging of fractional oxygen \$O_x\$ in Hg-based high- \$T_c\$ superconductors](#)
Bayesian Inference and Maximum Entropy Methods in Science and Engineering, 21th International Workshop, edited by R.L. Fry, pp. 204-226
- PAPOULAR R.J. - [Imaging of disordered protons and oxygen atoms in molecular compounds of pharmaceutical interest an high- \$T_c\$ superconducting oxides from neutron and X-ray data](#)
Proceedings SCI 2002" vol. XVII, edited by N. Callaos, Y. He, J.A. Perez-Peraza, pp. 313-320
- PARASOTE V., KENTZINGER E., PIERRON-BOHNES V., CADEVILLE M. C., KERRACHE A., ZEMIRLI M., BOUZAR H., HENNION B. - [Order and migration energies in a \$CoPt_3\$ single crystal. Experimental determination from neutron scattering and Monte-Carlo simulations.](#)
Diffusion and Defect Data--Solid State Data, Pt. A: Defect and Diffusion Forum **194-199** (2001) 403-410
- PETITGRAND D. IVANOV , A.S., MALEYEV S.V. - [Spin dynamics and magnetic order near the field-induced quantum critical point in \$Pt_2CuO_4\$](#)
Applied Physics A **74** (2002) S853-S855
- PINTSCHOVIVUS L., REICHARDT W., BRADEN M., DHALENNE G., REVCOLEVSKI A. - [Lattice dynamics of stoichiometric and nonstoichiometric \$La_{1.85}Sr_{0.15}CuO_4\$](#)
Physical Review B **64** (2001) 094510
- PINTSCHOVIVUS L., REICHARDT W., KLASER M., WOLF T., VON LOHNEYSEN H. - [Pronounced in-plane anisotropy of phonon anomalies in \$YBa_2Cu_3O_{6.6}\$](#)
Physical Review Letters **89** (2002) 037001



- PROKES K., GUKASOV A., JAVORSKY P., SECHOVSKY V., MIHALIK M. - [Magnetic anisotropy in UniGa determined by polarized neutrons](#)
Physica B **301** (2001) 255-260
- PROKES K., JAVORSKY P., GUKASOV A., BRUCK E., SECHOVSKY V. - [Field induced change of the antiferromagnetic structure of UniAl](#)
Physica B **312-313** (2002) 872-874
- ROTTER M., KRAMP S., LOEWENHAUPT M., GRATZ E., SCHMIDT W., PYKA N.M., HENNION B., v.d.KAMP R. - [Magnetic excitations in the antiferromagnetic phase of NdCu₂](#)
Applied Physics A **74** (2002) S751-S753
- RÜCKER U., KENTZINGER E., TOPERVERG B., OTT F., BRÜCKEL T. - [Layer-by-layer magnetometry of polarizing supermirrors](#)
Applied Physics A **74** (2002) S607-S609
- SADOWSKI J., MATHIEU R., SVEDLINDH P., KARLSTEEN M., KANSKI J., FU Y., DOMAGALA J. T., SZUSZKIEWICZ W., HENNION B., MAUDE D. K., AIREY R., HILL G. - [Ferromagnetic GaMnAs/GaAs superlattices-MBE growth and magnetic properties](#)
Thin Solid Films **412** (2002) 122-128.
- SECHOVSKY V., PROKES K., SVOBODA P., SYSHCHENKO O., CHERNYAVSKI O., SATO H., FUJITA T., SUZUKI T., DOERR M., ROTTER M., LOEWENHAUPT M., GUKASOV A. - [Magnetic field induced irreversibility in UniAl](#)
Journal of Applied Physics **89** (2001) 7639-7641
- SIDIS Y., BOURGES P., KEIMER B., REGNAULT L. P., BOSSY J., IVANOV A., HENNION B., GAUTIER-PICARD P., COLLIN G. - [Magnetic resonance peak and nonmagnetic impurities](#)
NATO Science Series, II: Mathematics, Physics and Chemistry (2001), 15(Open Problems in Strongly Correlated Electron Systems), 59-68.
- SIDIS Y., ULRICH C., BOURGES P., BERNHARD C., NIEDERMAYER C., REGNAULT L. P., ANDERSEN N. H., KEIMER B. - [Antiferromagnetic Ordering in Superconducting YBa₂Cu₃O_{6.5}](#)
Physical Review Letters **86** (2001) 4100-4103.
- 3 - MATERIALS SCIENCE**
- ALBERTINI G., CERETTI M., CAGLIOTI G., FIORI F., MONZANI R., VIVIANI L. - [Residual stresses in AA6082 shrink-fit systems : finite element calculations and neutron diffraction measurements](#)
Journal of Neutron Research **9** (2001) 459-467
- ANNIBALI G., BRUNO G., FIORI F., GIULIANI A., MANESCU A., MARCANTONI M., TURQUIER F. - [Neutron-diffraction measurements for residual stress analysis in automotive steel gears](#)
Applied Physics A **74** Part 2 (2002) S1698-S1700
- ASSERIN O., BRAHAM C., MILLET P., LODINI A. - [Synchrotron, neutron and classical X-ray measurement in an electron beam welded martensitic steel](#)
Journal of Neutron Research **9** (2001) 351-356
- BACZMANSKI A.; BRAHAM C.; LODINI A. - [Intergranular stresses determined by diffraction and self-consistent model](#)
Materials Science Forum (2002), 404-407
(ECRS 6, Proceedings of the 6th European Conference on Residual Stresses, 2002), 729-73
- BARRALLIER L., FABRE A., MASSE J.-E., CERETTI M. - [Residual stress measurements using neutron diffraction in magnesium alloy laser welded joints](#)
Materials Science Forum **404-407** (2002) 399-404
- BARUCHEL J, LODINI A., ROMANZETTI S., RUSTICHELLI F., SCRIVANI A. - [Phase-contrast imaging of thin biomaterials](#)
Biomaterials **22** (2001) 1515-1520
- SIMON Ch., MERCONE S., GUIBLIN N., MARTIN C., BRULET A., ANDRE G. - [Microphase separation in Pr_{0.67}Ca_{0.33}MnO₃ by small angle neutron scattering](#)
Physical Review Letters **89** (2002) 207202
- STRIDE J., GILLON B., GOUKASSOV A., LARIOVA J., CLERAC R., KAHN O. - [Determination of the nuclear structure and spin density distribution in the cyano-bridged molecular based magnet K₂Mn₃\(H₂O\)₆\[Mo\(CN\)₇\]₂*6H₂O](#)
Comptes Rendus de l'Académie des Sciences - Paris Chimie **4** (2001) 105-112
- SZUSZKIEWICZ W., DYNOWSKA E., HENNION B., OTT F., JOUANNE M., MORHANGE J. F., KARLSTEEN M., SADOWSKI J. - [Interlayer exchange coupling in short period GaMnAs/GaAs superlattices](#)
Acta Physica Polonica, A **100** (2001) 335-341
- TRANQUADA J.M., NAKAJIMA K., BRADEN M., PINTSCHOVIVUS L., MCQUEENEY R.J. - [Bond-Stretching-Phonon Anomalies in Stripe-Ordered La_{1.69}Sr_{0.31}NiO₄](#)
Physical Review Letters **88** (2002) 075505
- VIRET M.; BERGER S.; GABUREAC M.; OTT F.; OLLIGS D.; PETEJ I.; GREGG J. F.; FERMON C.; FRANCINET G.; LE GOFF G. - [Magnetoresistance through a single nickel atom](#)
Physical Review B: **66** (2002) 220401
- WANG NL., TIMUSK T., FRANCK JP., SCHWEISS P., BRADEN M., ERB A. - [Oxygen isotope effect in the ab-plane reflectance of underdoped YBa₂Cu₃O_{7-δ}](#)
Physical Review Letters **89** (2002) 087003
- WITTE U., KRAMP S., BRADEN M., SVOBODA P., LOEWENHAUPT M. - [Crystal field-phonon coupling in the Kondo lattice CeCu₂](#)
Applied Physics A **74** (2002) S571-S573
- BATTAGLIN G.; MENELLE A.; MONTECCHI M.; NICHELATTI E.; POLATO P. - [Neutron reflectometry for the investigation of multilayer coatings for building applications](#)
Glass Technology **43** (2002) 203-208
- BECHADE J.L., MATHON M.H., BRANGER V., REGLE H., ALAMO A. - [Texture analysis of oxide dispersion strengthened \(ODS\) Fe alloys by X-ray and Neutron diffraction](#)
Journal de Physique IV **12** (2002) 155-163
- BOUCHARD P. J.; FIORI F.; TREIMER W. - [Characterisation of creep cavitation damage in a stainless steel pressure vessel using small angle neutron scattering](#)
Applied Physics A **74** (2002) S1689-S1691
- BRUNO G., GIRARDIN E., GIULIANI A., KOSZEGI L., LEVY-TUBIANA R., MANESCU A., RUSTICHELLI F. - [Residual stress determination in several MMC samples submitted to different operating conditions](#)
Journal of Neutron Research **9** (2001) 107-117
- CALEYO F., BAUDIN T., MATHON M.H., PENELLE R. - [Comparison of several methods for the reproduction of the orientation distribution function from pole figures in medium to strong textured materials](#)
European Physical Journal A **15** (2001) 85-96



- CARRADO A., SPRAUEL J.-M., BARRALLIER L., LODINI A. - [Neutron and synchrotron evaluation of residual stresses in coatings](#)
Journal of Neutron Research **9** (2001) 193-200
- CARRADO A., FIORI F., GIRARDIN E., PIRLING T., POWELL P., RUSTICHELLI F. - [Neutron diffraction measurements of residual stresses in metal matrix composite samples.](#)
Radiation Physics and Chemistry **61** (2001) 575-577.
- CARRADO A.; SPRAUEL J. M.; BARRALLIER L.; LODINI A. - [Synchrotron evaluation of residual stress in palladium alloy substrate.](#)
Materials Science Forum (2002), 404-407
(ECRS 6, Proceedings of the 6th European Conference on Residual Stresses, 2002) 335-340.
- CERETTI M., HIRSCHI K., MARINI B., SPRAUEL J.M., LAURIAT J.P., ELKAIM E. - [Residual stresses and hardening near crack tip regions of austenitic steel](#)
Applied Physics A **74** (2002) S1722-S1724
- COFINO B., BRAHAM C., MILLET P., LODINI A. - [Use of synchrotron radiation in the analysis of strains near the interface between a plasma-sprayed hydroxyapatite coating and a Ti-6Al-4V substrate](#)
Journal of Neutron Research **9** (2001) 243-247
- COPPOLA R., LAPP A., MAGNANI M., VALLI M. - [Non-destructive investigation of microporosity in marbles by means of small angle neutron scattering.](#)
Construction and Building Materials, **16** (2002) 223-27
- COPPOLA R., LAPP A., MAGNANI M., VALLI M. - [Small angle neutron scattering investigation of microporosity in marbles](#)
Applied Physics A **74** (2002) S1066-S1068
- COPPOLA R., GLATTLI H., VALLI M. - [Polarized SANS study of microstructural evolution in a martensitic steel for fusion reactors](#)
Applied Physics A **74** Part 2 (2002) S1055-S1057
- DILIGENT-BERVEILLER S., GAUTIER E., WEISBECKER P., MATHON M.H., IUNG T., REGLE H., ZIMMER P. - [Influence of coiling temperature on recrystallization of Cu-bearing Ti-IF steels](#)
Proceedings of the 21st Riso International Symposium on Materials Science: Recrystallization – Fundamental Aspects and Relations to Deformation Microstructure, Editors: N. Hansen, X. Huang, D. Juul Jensen, E.M. Lauridsen, T. Leffers W. Pantleon, T.J. Sabin, J.A. Wert
Journal de Physique IV: Proceedings (2001), 11(Pr4) 69-76.
- DILIGENT-BERVEILLER S., AEBY-GAUTIER E., WEISBECKER P., MATHON M.H., LUNG T., REGLE H., ZIMMER P. - [Recrystallization kinetics and associated textures of Cu-bearing Ti-IF steels](#)
Journal de Physique IV 11 (PR4) (2001) 69-76
- ETTER A.L., MATHON M.H., BAUDIN T., BRANGER V., PENELLE R. - [Influence of the cold rolled reduction on the stored energy and the recrystallization texture in a Fe-53%Ni alloy](#)
Scripta Materialia **46** (2002) 311-317
- ETTER A.L., MATHON M.H., BAUDIN T., PENELLE R. - [A method of determination of stored energy in a single and dual phase cold rolled materials](#)
Materials Science Forum **408-410** (2002) 583-588
- FIORIF.; MARCANTONI M. - [Neutron-diffraction measurement of residual stresses in Al-Cu cold-cut welding](#) .
Applied Physics A: **74** (2002) S1695-S1697
- FITZPATRICK M.E., WITHERS P.J., BACZMANSKI A., HUTCHINGS M.T., LEVY R., CERETTI M., LODINI A. - [Changes in the misfit stresses in an Al/SiC_p metal matrix composite under plastic strain](#)
Acta Materialia **50** (2002) 1031-1040
- GALDEANO S., CHAFFON L., MATHON M.H., VINCENT E., ANDRE G., de NOVION C.H. - [Characterisation of the ball-milled Cu₈₀\(Fe_{0.3}Co_{0.7}\)₂₀ compound and effects of the milling conditions on its nanostructure.](#)
Materials Science Forum **360-362** (2001) 367-372
- GALDEANO S., MATHON M.H., CHAFFRON L., ANDRÉ G., VINCENT E., TRAVERSE A., DE NOVION C.H. - [Study of the nanocrystalline ball milled Cu₈₀\(Fe_{0.3}Co_{0.7}\)₂₀ compound](#)
Applied Physics **A75** (2002) 1-3
- GALDEANO S., MATHON M.H., CHAFFON L., ANDRE G., VINCENT E., TRAVERSE A., DE NOVION C.H. - [Study of the nanocrystalline ball-milled Cu₈₀\(Fe_{0.3}Co_{0.7}\)₂₀ compound](#)
Applied Physics **A74** (2002) S1046-S1048
- GIGOUT D., BACZMANSKI A., OHMS C., YOUTSOS A. G., LODINI A. - [Residual stresses in austeno-ferritic steel neutron diffraction and modelling.](#)
Journal of Neutron Research **9** (2001) 65-70.
- GROSSE M., STUHR U., CERETTI M., KOSZEGI L. - [Measurement of radial strain in the cross section of a railway wheel hoop](#)
Journal of Neutron Research **9** (2001) 489-493
- GROSSE M., CERETTI M., OTTLINGER P. - [Distribution of radial strain in a disc-braked railway wheel measured by neutron diffraction](#)
Applied Physics A **74** (2002) S1400-S1402
- GUEZOU J.C., CERETTI M., BAUDIN T., MATHON M.H., PENELLE R. - [Elastic strain study in quartzites using neutron diffraction](#)
Journal of Neutron Research **9** (2001) 357-362
- JURA J., BAUDIN T., MATHON M.H., SWIATNICKI W., PENELLE R. - [Microstructure and texture analysis in a cold-rolled austenitic-ferritic steel with duplex structure](#)
Materials Science Forum **408-410** (2002) 1359-1364
- KUSNIERZ J., KURPWSKI M., MATHON M.H., BAUDIN T., JASIENSKI Z., PENELLE R. - [Effect of deformation path on torsion texture and stored energy of copper rods](#)
Materials Science Forum **408-410** (2002) 625-630
- KUSNIERZ J., MATHON M.H., BAUDIN T., JASIENSKI Z., PENELLE R. - [Neutron diffraction study of texture and stored energy in ECA pressed copper](#)
Materials Science Forum **408-410** (2002) 703-708
- LABBE E., POISSON N., PRIOUL C., LODINI A. - [Residual stress evaluation in railway wheel/axle](#)
Journal of Neutron Research **9** (2001) 393-397
- LETOUZE N., BRENNER R., CASTELNAU O., BECHADE J.L., MATHON M.H. - [Residual strain distribution in Zircaloy-4 measured by neutron diffraction and estimated by homogenization techniques](#)
Scripta Materialia **47** (2002) 595-599
- LETOUZE N., BRENNER R., BECHADE J.L., CASTELNAU O., MATHON M.H., BACROIX B. - [Analyse par diffraction des neutrons des déformations résiduelles dans une alliage de Zirconium après un chargement thermomécanique](#)
Journal de Physique IV **12**, PR6 (2002) 125-136
- LEVY-TUBIANA R., MOLLIEUX L., LODINI A. - [Evaluation by neutron diffraction method of the level of stresses in Ti/SiC bling](#)
Journal of Neutron Research **9** (2001) 431-434
- LI A., LODINI A. - [Micro- and macrostresses in a cold-rolled Al-SiC composite](#)
Journal of Composite Materials **36** (7): 873-884 2002
- LODINI A. - [The recent development of neutronic techniques for determination of residual stresses.](#)
Radiation Physics and Chemistry **61** (2001) 227-233.



LUKAS P., SITTNER P., LUGOVOY D., NEOV D., CERETTI M. - [In situ neutron diffraction studies of the R-phase transformation in the NiTi shape memory alloy](#)
Applied Physics A **74** (2002) S1121-S1123

MATHON M.H., de CARLAN Y., GEOFFROY G., AVERTY X., de NOVION C.H., ALAMO A. - [Microstructural evolution of reduced and activation and conventional martensitic steels after thermal ageing and neutron irradiation](#)
" Effects of Radiation on Materials " 20th International symposium, ASTM STP, Williamsburg, USA, 5-8 juin 2000
In " Effects of Radiation Materials " (2001) pp.674-693

MENIG R., PINTSCHOVIVUS L., SCHULZE V., VOHRINGER O. - [Depth profiles of macro residual stresses in thin shot peened steel plates determined by X-ray and neutron diffraction](#)
Scripta Materialia **45** (2001):977-983

METELEV S. V., PLESHANOV N. K., MENELLE A., PUSENKOV V. M., SCHEBETOV A. F., SOROKO Z. N., UL'YANOV V. A. - [The study of oxidation of thin metal films by neutron reflectometry.](#)
Physica B **297** (2001) 122-125.

MILLET P., GIRARDIN E., BRAHAM C., LODINI A. - [Residual stress analysis in implant coating using X-ray and neutron diffraction techniques](#)
Journal of Neutron Research **9** (2001) 443-448

MILLET P., GIRARDIN E., BRAHAM C., LODINI A. - [Stress influence on interface in plasma-sprayed hydroxyapatite coatings on titanium alloy.](#)
Journal of Biomedical Materials Research **60** (2002) 679-684.

N'GUY-MARECHAL K., MENELLE A., GERGAUD P. - [NiC/Ti supermirrors and stress evolution under neutron irradiation](#)
Journal of Neutron Research **9** (2001) 71-78
PENELLE R.; BAUDIN T.; ETTER A. L.; SOLAS D. - [Formation and control of the cube texture in Fe-Ni alloys.](#)
Materials Science Forum **408-412** (2002) 739-747

PETTINARI F., PREM M., KREXNER G., CARON P., COUJOU A., KIRCHNER H.O.K., CLEMENT N. - [Local order in industrial and model \$\gamma\$ phases of superalloys](#)
Acta Materialia **49** (2001) 2549-2556

PINTSCHOVIVUS L., KAMPFE A., EIGENMANN B., LOHE D. - [Residual stress analysis in actively brazed joints of aluminium nitride and copper using neutron and X-ray diffraction](#)
Zeitschrift für Metalkunde **92** (2001) 275-280

4 - LIQUIDS AND DISORDERED SYSTEMS

ALMASY L., BANKI P., BELLISSENT-FUNEL M.-C., BOKOR M., CSER L., JANCOS G., TOMPA K., ZANOTTI J.-M. - [QENS and NMR studies of aqueous solutions of 3-picoline](#)
Applied Physics A **74** (2002) S516-S518

ALMASY L., CSER L., JANCOS G. - [Kirkwood-Buff integrals in aqueous solutions of 3-methylpyridine](#)
Journal of Molecular Liquids **101** ((2002) 89-98

ALMASY L., JANCOS G., CSER L. - [Application of SANS to the determination of Kirkwood-Buff integrals in liquid mixtures](#)
Applied Physics A **74** (2002) S1376-S1378

ALVAREZ M., LOMBA E., VERKERK P., VAN DER AART S.A., BIONDUCCI M., MIREBEAU I., VAN DER LUGH W. - [Neutron diffraction investigation of liquid alkali-gallium alloys. Giant cluster formation ?](#)
Zeitschrift für Anorganische und Allgemeine Chemie **628** (2002) 553-558

BAYON G., WINKLER B., KAHLE A., HENNION B., BOUTROUILLE P. - [Application of dynamic neutron imaging in the earth sciences to determine viscosities and densities of silicate melts.](#)
Nondestructive Testing and Evaluation **16** (2001) 287-296.

PINTSCHOVIVUS L., KAMPFE A., EIGENMANN B., WICK A. - [Determination of steep stress gradients at surfaces of interfaces by means of neutron diffraction](#)
Journal of Neutron Research **9** (2001) 181-185

PREM M.; KREXNER G.; PETTINARI-STURMEL F.; CLEMENT N. - [Temperature dependence of ordering in the \$\gamma\$ -phase of Ni-based superalloys.](#)
Applied Physics A: **74** (2002) S1112-S1114

SITTNER P., LUKAS P., NOVAK V., NEOV D., CERETTI M. - [In Situ neutron diffraction study of stresses generated by shape memory alloys](#)
Journal of Neutron Research **9** (2001) 143-150

TAKZEI G. A., MIREBEAU I., GUN'KO L. P., SURZHENKO O. B., CHEREPOV S. V., TROSCHENKOV YU. N. - [The onset of a long-range ferromagnetic order in an ensemble of small ferromagnetic particles.](#)
Materials Science Forum **373-376** (2001) 145-148.

TAMISIER-KAROLAK S. L., PAGLIARUSCO S., HERRENKNECHT C., BRETTREICH M., HIRSCH A., CEOLIN R., BENSASSON R. V., SZWARC H., MOUSSA F. - [Electrophoretic behavior of a highly water-soluble dendro\[60\]fullerene.](#)
Electrophoresis **22** (2001) 4341-6.

TIAN B., PARIS O., PREM M., PINK E., FRATZL P. - [Serrated flow and related microstructures in an Al-8.4 at.% Li alloy](#)
Journal of Materials Science **37** (2002) 1355-1361

TOLEDANO P., KREXNER G., PREM M., WEBER HP., DMITRIEV VP. - [Theory of the martensitic transformation in cobalt](#)
Physical Review B **64** (2001) 144104

TURQUIER F., STANIC V., CERETTI M., FIFCH A., LODINI A., RUSTICHELLI F. - [Experimental investigation of thermal fatigue-induced strain in a tool steel coated with plasma-prayed, stabilised zirconia](#)
Journal of Neutron Research **9** (2001) 405-409

ULBRICHT A., BOEHMERT J., DEWHURST C., MATHON M.H. - [Microstructural investigations on Russian reactor pressure vessel steels by small angle neutron scattering](#)
Applied Physics A **74** (2002) S1128-S1130

BELLISSENT-FUNEL M.-C. - [Structure of supercritical water](#)
Journal of Molecular Liquids **90** (2001) 313-322

BONETTI M., CALMETTES P., BERVILLIER C. - [Small-angle neutron scattering from supercritical heavy water at off-critical densities.](#)
Journal of Chemical Physics **115** (2001) 4660-4669.

BRANCA C.; FARAONE A.; GALLI G.; MAGAZU S.; MAISANO G.; MIGLIARDO F. [Characterization of "strong-fragile" behaviour of glass-forming aqueous solutions by neutron scattering](#)
Applied Physics A: **74** (2002) S448-S449.

BRANCA C.; MAGAZU S.; MAISANO G.; MIGLIARDO F.; ROMEO G. - [Vibrational versus relaxational contribution for disaccharide-water glass formers: neutron scattering evidence](#)
Philosophical Magazine B: **82** (2002) 347-355

BYCHKOV E., PRICE D.L., LAPP A. - [Universal trend of the Haven Ratio in Glasses : origin and structural evidence from neutron diffraction and small angle neutron scattering](#)
Journal of Non Crystalline Solids **293-295** (2001) 211-219



- CORMIER L., CALAS G., NEUVILLE DR., BELLISSENT R. - *A high temperature neutron diffraction study of a titanosilicate glass*
Journal of Non-Crystalline Solids **293** (2001) 510-516
- COULET M.-V., CEOLIN R., BELLISSENT R., BERGMEN C., BEUNEU B., AMBROISE J.P., BICHARA C. - *A new experimental method for studying phase separation through neutron diffraction : the case of As-rich liquid alloys in the As-S system*
Journal of Non-Crystalline Solids **312-314** (2002) 404-408
- FARAONE A., MAGAZA S., LECHNER R. E., LONGEVILLE S., MAISANO G., MAJOLINO D., MIGLIARDO P., WANDERLINGH U. - *Quasielastic neutron scattering from trehalose aqueous solutions.*
Journal of Chemical Physics **115** (2001) 3281-3286.
- FRATINI E., CHEN S.H., BAGLIONI P., BELLISSENT-FUNEL M.C. - *Age-dependent dynamics of water in hydrated cement paste*
Physical Review E **64** (2001) 020201(R)
- FRATINI E., CHEN S.H., BAGLIONI P., BELLISSENT-FUNEL M.C. - *Quasi-elastic neutron scattering study of translational dynamics of hydration water in tricalcium silicate*
Journal of Physical Chemistry B **106** (2002) 158-166
- FRATINI E., FARAONE A., BAGLIONI P., BELLISSENT-FUNEL M.-C., CHEN S.-H. - *Dynamic scaling of QENS spectra of glassy water in aging cement paste.*
Physica A **304** (2002) 1-10.
- GAMBI C.M.C., GIORDANO R., CHITTOFRATI A., PIERI R., BAGLIONI P., TEIXEIRA J. - *SANS analysis of aqueous ionic perfluoropolyether micelles*
Applied Physics A **74** (2002) S436-S438
- GROSDIDIER B., BOS JL., GASSER JG., BELLISSENT R. - *Chemical order of manganese-antimony liquid alloys obtained experimentally by the neutron "null matrix" method*
Physics and Chemistry of Liquids **40** (2002) 553-580
- HALM T., NZALI JN., HOYER W., MAY RP., BIONDUCCI A. - *Short-range and medium-range order in molten Ga-Tl alloys*
Journal of Non-Crystalline Solids **293** (2001) 182-186
- HEDOUX A., DORE J., GUINET Y., BELLISSENT-FUNEL M.-C., PREVOST D., DESCAMPS M., GRANDJEAN D. - *Analysis of the local order in the glacial state of triphenyl phosphite by neutron diffraction*
Physical Chemistry Chemical Physics **4** (2002) 5644-5648
- JARDET K., MULLER C., BELLISSENT R., SATRE P., SEBAOUN A. - *Temperature dependent X-ray and neutron diffraction study of the liquid-solid and solid-solid equilibria in the Al_{29.2}Ga₂₇Zn_{43.8} ternary alloy*
Journal of Alloys and Compounds **316** (2001) 179-188
- MAGAZU S.; BRANCA C.; FARAONE A.; MIGLIARDO F.; MIGLIARDO P.; ROMEO G. - *Comparison of disaccharide solutions across glass transition*
Physica B: **301** (2001) 126-129.
- PLANTEVIN O.; FAK B.; GLYDE H. R.; MULDER N.; BOSSY J.; CODDENS G.; SCHOBER H. - *Excitations of superfluid 4He in porous media: Aerogel and Vycor*
Physical Review B **63** (2001) 224508
- PLANTEVIN O.; GLYDE H.R.; FAK B.; BOSSY J.; ALBERGAMO F.; MULDER N.; SCHOBER H. - *Excitations in liquid 4He in Geltech silica and localized Bose condensation*
Physical Review B: **65** (2002) 224505
- RATY JY., GODLEVSKY VV., GASPARD JP., BICHARA C., BIONDUCCI M., BELLISSENT R., CEOLIN R., CHELIKOWSKY JR., GHOSEZ P. - *Distance correlations and dynamics of liquid GeSe: An ab initio molecular dynamics study*
Physical Review B **64** (2001) 235209
- RATY JY., GODLEVSKY VV., GASPARD JP., BICHARA C., BIONDUCCI M., BELLISSENT R., CEOLIN R., CHELIKOWSKY JR., GHOSEZ P. - *Local structure of liquid GeTe via neutron scattering and ab initio simulations*
Physical Review B **65** (2002) 115205
- SIMONET V.; HIPPERT F.; AUDIER M.; BELLISSENT R. - *Local order in liquids forming quasicrystals and approximant phases*
Physical Review B **65** (2002) 024203
- SWENSON J., BERGMAN R., BOWRON D. T., LONGEVILLE S. - *Water structure and dynamics in a fully hydrated sodium vermiculite clay.*
Philosophical Magazine B **82** (2002) 497-506.
- TEIXEIRA J. - *L'eau et les liaisons hydrogène*
Encyclopaedia Universalis, La Science au présent 2001, 137-142
- TEIXEIRA J. - *L'étrange comportement de l'eau ultra-froide*
Pour la Science 285 (2001) 84-91
- ### 5 - SOFT MATTER AND BIOMATERIALS
- AKCASU AZ., JANNINK G., BENOIT H. - *Application of the Sherman-Morrison formula to scattering problems by multi-component systems*
European Physical Journal E **8** (2002) 315-319
- ASCHI A., GHARBI A.H., BITRI L., CALMETTES P., DAOUD M., AGUIE-BEGHIN V., DOUILLARD R. - *Structure and properties of adsorption layers of β -casein formed from guanidine hydrochloride rich solutions.*
Langmuir **17** (2001) 1896-1904.
- ASCHI A., GHARBI A.H., CALMETTES P., DAOUD M., AGUIE-BEGHIN V., DOUILLARD R. - *Adsorption layers of β -casein at the air/water interface: Effect of guanidine hydrochloride.*
Royal Society of Chemistry **276** (2002) 145-152.
- BAUMERT J., ASMUSSEN B., GUTT C., KAHN R. - *Pore-size dependence of the self-diffusion of hexane in silica gels*
Journal of Chemical Physics **116** (2002) 10869-10876
- BEAUDOIN E., LAPP A., HIORNS R.C., GRASSL B., FRANCOIS J. - *Neutron scattering of hydrophobically modified poly(ethylene oxide) in aqueous solutions in the presence of latex particles*
Polymer **43** (2002) 2677-2689
- BAUDOIN E., BORISOV O., LAPP A., BILLON L., HIORNS R.C., FRANÇOIS J. - *Neutron Scattering Of Hydrophobically Modified Poly(ethylene oxide) in Aqueous Solutions.*
Macromolecules **35** (2002) 7436 - 7447
- BENOIT H., JANNINK G. - *A few remarks on classic problems of scattering by polymer solutions and mixtures*
Macromolecular Symposia **190** (2002) 43-54
- BERRET J.-F., CRISTOBAL C., HERVE P., OBERDISSE J., GRILLO I. - *Structure of colloidal complexes obtained from neutral/polyelectrolyte copolymers and oppositely charged surfactants*
European Physical Journal E **9** (2002) 301-311
- BRAUN O., BOUE F., CANDAU F. - *Microphase separation in weakly charged hydrophobic polyelectrolytes.*
European Physical Journal E **7** (2002) 141-151.
- BRUBACH J.B., MERMET A., FILABOZZI A., GERSCHEL A., LAIREZ D., KRAFFT M.P., ROY P. - *Dependence of water dynamics upon confinement size*
Journal of Physical Chemistry B **105** (2001) 430-435



- BRULET A., FOURMAUX-DEMANGE V., COTTON J.P. - [Temperature dependence of the conformation of a comb-like liquid crystalline polymer in a \$N_1\$ nematic phase](#)
Macromolecules **34** (2001) 3077-3080
- BRULET A., COTTON J.P. - [Structure and dynamics of comb-like liquid crystalline polymers : studies as a function of the molecular weight](#)
Recent Research Developments in Polymer Science **5** (2001) 93-138.
- CARROT G., DIAMANTI S., MANUSZAK M., CHARLEUX B., VAIRON J.-P. - [Atom transfer radical polymerization of n-butyl acrylate from silica nanoparticles](#)
Journal of Polymer Science A **39** (2001) 4294-4301
- CARROT G., RUTOT D., POTTIER A., DEGÉE P., HILBORN J., DUBOIS P. - [Surface-initiated ring-opening polymerization: a versatile method for nanoparticle ordering](#)
Macromolecules **35** (2001) 8400-8404
- CASTELLETTO V., NOIREZ L. - [Orientation of side chain liquid crystal polymers under shear constraint in the smectic phase](#)
Molecular Crystal Liquid Crystal **362** (2001) 79-88
- COUSIN F., DUBOIS E., CABUIL V., BOUE F., PERZYNSKI R. - [Overview of the phase diagram of ionic magnetic colloidal dispersions](#)
Brazilian Journal of Physics **31** (2001) 350-355
- DUBOIS E., BOUE F. - [Conformation of polystyrene sulfonate polyions in the presence of multivalent ions : small angle neutron scattering experiments](#)
Macromolecules **34** (2001) 3684-3697
- FADDA G.C., LAIREZ D., PELTA J. - [Critical behavior of gelation probed by the dynamics of latex spheres](#)
Physical Review E **63** (2001) 61405
- FADDA G. C., LAIREZ D., PELTA J. - [The sol-gel transition probed by the dynamics of latex particles studied by QELS.](#)
Physica **A304** (2002) 103-110.
- FAIVRE A., LEVELUT C., DURAND D., LONGEVILLE S., EHLERS G. - [Influence of the microstructure of PPO-based glass-formers on their dynamics as investigated by neutron spin echo.](#)
Journal of Non-Crystalline Solids **307-310** (2002) 712-718
- GALANT, C., AMIEL, C., WINTGENS, V., SEBILLE, B., AUVRAY, L. - [Ternary complexes with poly\(\$\beta\$ -cyclodextrin\), cationic surfactant, and polyanion in dilute Aqueous solution: A viscometric and small-angle neutron scattering study](#)
Langmuir **18** (2002) 9687-9695
- GAZEAU F, DUBOIS E, BACRI J C, BOUE F, CEBERS A, PERZYNSKI R - [Anisotropy of the structure factor of magnetic fluids under a field probed by small-angle neutron scattering.](#)
Physical Review E **65** (2002) 031403
- GILBERT E.P., AUVRAY L., LAL J. - [Structure of charged polymer chains in confined geometry .](#)
Materials Research Society Symposium Proceedings (2001) 651 (Dynamics in Small Confining Systems V) T1.3.1-T1.3.6.
- GILBERT E.P., AUVRAY L., LAL J. - [Structure of Polyelectrolyte Chains Confined in Nanoporous Glass.](#)
Macromolecules **34** (2001) 4942-4948.
- HELLWEG T., BRULET A.E, LAPP A., ROBERTSON D.LA, KOETZ J. - [Temperature and polymer induced structural changes in SDS/decanol based multilamellar vesicles.](#)
Physical Chemistry Chemical Physics **4** (2002) 2612-2616.
- HERVE P., DESTARAC M., BERRET J.-F., LAL J., OBERDISSE J., GRILLO I. - [Novel core-shell structure for colloids made of neutral/polyelectrolyte diblock copolymers and oppositely charged surfactants.](#)
Europhysics Letters **58** (2002) 912-918.
- JARROUX N., GUEGAN P., AUVRAY L., CHERADAME H. - [High yield of polyrotaxanes by control of the blocking reaction kinetics.](#)
American Chemical Society. (2001) 221st PMSE-585..
- JEAN B., BOKIAS G., LEE L.T., ILLIOPOULOS I., CABANE B. - [Microphase separation of cationic poly\(N-isopropylacrylamide\) copolymers in water : effect of the migration of charges](#)
Colloid and Polymer Science **280** (2002) 908-914
- JEAN B., LEE L.T. - [Effects of sodium dodecyl sulfate poly\(N-isopropylacrylamide\) adsorption at the air-water interface above the lower critical solubility temperature](#)
Colloid and Polymer Science **280** (2002) 689-694
- JESTIN J., LEE LT., PRIVAT M., ZALCZER G. - [Test of the universality of the critical adsorption profile by neutron reflection](#)
European Physical Journal B **24** (2001) 541-547
- KISELEV M.A., JANICH M., LESIEUR P., HOELL A., OBERDISSE J., PEPY G., KISSELEV A.M., GAPIENKO I.V., GUTBERLET T., AKSENOV V.L. - [DMPC vesicles and mixed DMPC/C12E8 micelles orientation in strong magnetic fields](#)
Applied Physics A **74** (2002) S1239-S1241
- KISELEV M.A., JANICH M., LESIEUR P., HOELL A., OBERDISSE J., PEPY G., KISSELEV A.M., GAPIENKO I.V., GUTBERLET T., AKSENOV V.L. - [DMPC multilamellar vesicles and mixed DMPC/C₁₂E₈ micelles orientation in strong magnetic fields.](#)
FLNP 2001 annual report. JINR pub D-2002-80 (2002) 129-131.
- KRATZ K., LAPP A., EIMER W., HELLWEG T. - [Volume transition and structure of triethyleneglycol dimethacrylate, ethyleneglycol dimethacrylate, and N,N'-methylene bis-acrylamide cross-linked poly\(N-isopropyl acrylamide\) microgels : a small angle neutron and dynamic light scattering study.](#)
Colloids and Surfaces A **197** (2002) 55-67
- LAL J., AUVRAY L - [Interaction of polymer with discotic clay particles.](#)
Molecular Crystals and Liquid Crystals Science and Technology, **356** (2001) 503-515.
- LAL J., ABERNATHY D., AUVRAY L., DIAT O., GRUBEL G. - [Dynamics and correlations in magnetic colloidal systems studied by X-ray photon correlation spectroscopy.](#)
European Physical Journal E **4** (2001) 263-271.
- LAL J., GILBERT E. P., AUVRAY L - [Confinement of neutral and charged polymer chains in nanoporous glass.](#)
Physica A **304** (2002) 244-248.
- LASIC D.D., JOANNIC R., KELLER B.C., FREDERIK P.M., AUVRAY L. - [Spontaneous vesiculation](#)
Advanced Colloid Interface Science **89-90** (2001) 337-349
- LECOMMANDOUX S., CHECOT F., BORSALI R., SCHAPPACHER M., DEFFIEUX A., BRULET A., COTTON J.P. - [Effect of dense grafting on the polystyrene brushes conformation : determination of the persistent length in solution](#)
Macromolecules **35** (2002) 8878-8881
- LEGRAND L., ROSENMAN I., BOUE F., ROBERT M.-C - [Effect of the substitution of light by heavy water on lysozyme KCl and NaNO₃ solubility.](#)
Journal of Crystal Growth **232** (2001) 244-249.
- LEN A., HARMAT P. , PEPY G., ROSTA L. - [SANS investigation of potassium morphology in bubble inclusions of sintered tungsten](#)
Applied Physics A **74** (2002) S1418-S1420
- MARZOLIN C., AUROY P., DERUELLE M., FOLKERS J.P., LEGER L., MENELLE A.- [Neutron reflectometry study of the segment-density profiles in end-grafted and irreversibly adsorbed layers of polymer in good solvents](#)
Macromolecules **34** (2001) 8694-8700



- MASCHKE U., GOGIBUS N., NOIREZ L., EWEN B., WAGNER T., BENMOUNA M. - [Liquid crystal 8CB/deuterated polystyrene: investigations by small angle neutron scattering.](#)
Molecular Crystals and Liquid Crystals Science and Technology, A **367** (2001) 259-266
- NOIREZ L., UNGERANK M., STELZER F. - [Dependence of the stereoregularity on the structure and the conformation of side-chain liquid crystalline polynorbornenes of various spacer lengths.](#)
Macromolecules **34** (2001) 7885-7893
- NOIREZ L. - [The role of the smectic layer crossings in the rheology of side-chain liquid crystalline polymers.](#)
Molecular Crystals and Liquid Crystals Science and Technology, A **364** (2001) 289-294.
- OBERDISSE J., DEME B. - [Structure of latex-silica nanocomposite films : a small-angle neutron scattering study](#)
Macromolecules **35** (2002) 4397-4405
- OBERDISSE J., IANNIRUBERTO G., GRECO F., MARRUCCI G. - [Primitive-chain Brownian simulations of entangled rubbers.](#)
Europhysics Letters **58** (2002) 530-536.
- OBERDISSE J. - [Structure and rheological properties of latex-silica nanocomposite films : stress-strain isotherms](#)
Macromolecules **35** (2002) 9441-9450
- PEPY G., KUKLIN A. - [An orientation process to study nuclear membranes by small angle neutron diffraction](#)
Nuclear Instruments and Methods in Physics Research B **185** (2001) 198-203
- PEPY G., NOIREZ L., BARONI P. - [Pressure induced mesophases in side-chain polymer liquid crystal revealed by neutron diffraction.](#)
Molecular Crystals and Liquid Crystals Science and Technology A **365** (2001) 279-285.
- PERREUR C., HABAS J.P., FRANCOIS J., PEYRELASSE J, LAPP A. - [Rheological and small-angle neutron scattering studies of aqueous solutions of branched PEO-PPO-PEO copolymer](#)
Physical Review E **63** (2001) 31505/1-11
- PERREUR C., J.P. HABAS, FRANCOIS J., PEYRELASSE J, LAPP A. - [Determination of the rheological properties of aqueous solutions of branched PEO-PPO-PEO copolymers. Confrontation with small-angle neutron scattering studies](#)
Macromolar Symposium **166** (2001) 127-137
- PERREUR C., J.P. HABAS, FRANCOIS J., PEYRELASSE J, LAPP A. - [Determination of the structure of the organized phase of PEO-PPO-PEO in aqueous solutions by small angle neutron scattering under flow.](#)
Physical Review E **65** (2002) 041802
- POPOVA A., GEOFFROY G., GARTNER E.M., LAPP A. - [Calcium silicate hydrates studied by small-angle neutron scattering \(SANS\)](#)
Journal of the American Ceramic Society **85** (2002) 1303-305
- PUJOLLE-ROBIC C., NOIREZ L. - [Observation of shear-induced nematic-isotropic transition in side-chain liquid crystal polymers](#)
Nature **409** (2001) 167-171
- PUJOLLE-ROBIC C., OLMSTED P.D., NOIREZ L. - [Transient and stationary flow behaviour of side chain liquid crystalline polymers : evidence of a shear-induced isotropic to nematic phase transition](#)
Europhysics Letters **59** (2002) 364-369
- RATHGEBER S., MONKENBUSCH M., KREITSCHMANN M., URBAN V., BRULET A. - [Dynamics of star-burst dendrimers in solution in relation to their structural properties.](#)
Journal of Chemical Physics **117** (2002) 4047-4062.
- RETSOS H., TERZIS A.F., ANASTASIADIS S.H., ANASTASSOPOULOS D.L., TOPRAKCIOGLU C., THEODOROU D.N., SMITH G.S., MENELLE A., GILL R.E., HADZIIOANNOU G., GALLOT Y. - [Mushrooms and brushes in thin films of diblock copolymer/homopolymer mixtures](#)
Macromolecules **35** (2002) 1116-1132
- ROLLET AL., SIMONIN JP., TURQ P., GEBEL G., KAHN R., VANDAIS A., NOEL JP., MALVEAU C., CANET D. - [Self-diffusion of ions at different time scales in a porous and charged medium: The nafion membrane](#)
Journal of Physical Chemistry B **105** (2001) 4503-4509
- RUSS T., BRENN R., ABEL F., BOUE F., GEOGHEGAN M. - [Reptation and interdiffusion in polystyrene networks](#)
European Physical Journal E **4** (2001) 419-433
- SAITO S., HASHIMOTO T., MORFIN I., LINDNER P., BOUE F. - [Structures in a semidilute polymer solution induced under steady shear flow as studied by small angle light and neutron scattering](#)
Macromolecules **35** (2002) 445-459
- SCAFFEI L., LANZI L., GAMBI C.M.C., GIORDANO R., BAGLIONI P., TEIXEIRA J. - [Study by SANS of sodium dodecyl sulfate micelles with the macrocyclic ligand \[2.2.2\]-cryptand](#)
Journal of Physical Chemistry B **106** (2002) 10771-10776
- SCHALCHLI-PLASZCZYNSKI A., AUVRAY L. - [Vesicle-to-micelle transition induced by grafted diblock copolymers.](#)
European Physical Journal E **7** (2002) 339-344.
- VIERTLER K., WEWERKA A., NOIREZ L., STELZER F. - [Synthesis and characterization of SCLC-homopolymers and blockcopolymers.](#)
NATO Science Series II: Mathematics, Physics and Chemistry **56** (2002) 143-155.
- BELLISSENT-FUNEL M.-C. - [Structure and relaxational dynamics of interfacial water](#)
Studies in Surface Science and Catalysis (eds. Y. Iwasawa, N. Oyama and H. Kunieda) **132** (2001) 657-662
- BELLISSENT-FUNEL M.-C. - [Structure of confined water](#)
Journal of Physics : Condensed Matter **13** (2001) 9165-9177
- BELLISSENT-FUNEL M.-C. - [Water near hydrophilic surface.](#)
Journal of Molecular Liquids **96-97** (2002) 287-304.
- CHEN S.H., LIAO C.Y., HUANG H.W., WEISS T.M., BELLISSENT-FUNEL M.C., SETTE F. - [Collective dynamics in fully hydrated phospholipid bilayers studied by inelastic X-ray scattering](#)
Physical Review Letters **86** (2001) 740-743
- CHEN S.H., BELLISSENT-FUNEL M.-C., Editors - Special Section Containing Articles on Scattering Studies of [Mesoscopic Scale Structure and Dynamics in Soft Matter](#). [In: J. Phys. Condens. Matter, 2001, **13**]. 428 pp. Publisher: (Institute of Physics Publishing, Bristol, UK)
- DELLERUE S., PETRESCU A.-J., SMITH J.C., BELLISSENT-FUNEL M.-C. - [Radially softening diffusive motions in a globular protein.](#)
Biophysical Journal **81** (2001) 1666-1676.
- FADDA G. C., LAIREZ D. - [Evidence for a rigid structure in lysozyme fractal aggregates.](#)
Physica A **304** (2002) 271-275.



- GALL A., ROBERT B., COGDELL R. J., BELLISSENT-FUNEL M.-C., FRASER N. J. - [Probing the binding sites of exchanged chlorophyll a in LH2 by Raman and site-selection fluorescence spectroscopies.](#)
FEBS Letters **491** (2001) 143-147.
- GALL A., DELLERUE S., LAPOUGE K., ROBERT B., BELLISSENT-FUNEL M.-C. - [Small angle neutron scattering measurements on the membrane protein subunit B777 in a detergent microemulsion.](#)
Biopolymers **58** (2001) 231-234.
- GALL A., ELLERVEE A., BELLISSENT-FUNEL M.-C., ROBERT B., FREIBERG A. - [Effect of high pressure on the photochemical reaction center from Rhodobacter sphaeroides R26.1.](#)
Biophysical Journal **80** (2001) 1487-1497.
- GALL A., SEGUIN J., ROBERT B., BELLISSENT-FUNEL M.C. - [The first steps in monitoring the internal dynamics of bacterial photochemical reaction center](#)
Journal of Physical Chemistry B **106** (2002) 6303-6309
- GALL A., SEGUIN J., ROBERT B., BELLISSENT-FUNEL M.-C. - [Membrane proteins in bulk solution can be used for quasi-elastic neutron scattering studies : the case for the photochemical reaction center](#)
Journal of Physical Chemistry B **106** (2002) 6303-6309
- HINSEN K., PETRESCU A.J., DELLERUE S., BELLISSENT-FUNEL M.-C., KNELLER G.R. - [Liquid-like and solid-like motions in proteins.](#)
Journal of Molecular Liquids **98-99** (2002) 381-398.
- KOPER I., PETRY W., BELLISSENT-FUNEL M.-C. - [Hindered protein dynamics in the presence of a cryoprotecting agent](#)
Applied Physics A, **74** (2002) S1257-S1259
- LOUPIAC C., BONETTI M., PIN S., CALMETTES P. - [High-pressure effects on horse heart metmyoglobin studied by small-angle neutron scattering](#)
European Journal of Biochemistry **269** (2002) 4731-4737.
- MIDDENDORF HD., WANDERLINGH UN., HAYWARD RL., ALBERGAMO F. - [Neutron Compton scattering from aligned collagen fibres](#)
Physica A **304** (2002) 266-270
- 7 - MODELLING**
- AUBRY S., KOPIDAKIS G., MORGANTE A.M., TSIRONIS G.P. - [Analytic conditions for tagedred energy transfer between nonlinear oscillators or discrete breathers](#)
Physica B **296** (2001) 222-236
- AUBRY S., KOPIDAKIS G. - [Aspects of discrete breathers and new directions](#)
"Nonlinearity and Disorder : Theory and Applications" Editors : F. Abdullaev, O. Bang, M.P. Sorensen, NATO SCIENCE SERIES VOL. 45 P. 81-98 (2001)
- AUBRY S., KOPIDAKIS G., KADELBURG V. - [Variational proof for hard discrete breathers in some classes of hamiltonian dynamical systems](#)
Discrete and Continuous Dynamical Systems – Series B **1** (2001) 271-298
- CAVADINI N., STRÄSSLE TH., ALLENSPACH P., CANFIELD P.C., BOURGES P.H. - [CEF nature of the magnetic excitations in ordered HoNi₂B₂C](#)
European Physical Journal B **29** (2002) 377-384
- JOHANSSON M. - [Decay of discrete breathers through inelastic multiphonon scattering](#)
Physical Review E **63** (2001) 37601
- PAUTHE E., PELTA J., PATEL S., LAIREZ D., GOUBARD F. - [Temperature induced beta-aggregation of fibronectin in aqueous solution](#)
Biochimica et Biophysica Acta **1597** (2002) 12-21.
- PEREZ J., VACHETTE P., RUSSO D., DESMADRIL M., DURAND D. - [Heat-induced unfolding of neocarzinostatin., a small all-beta protein investigated by small-angle X-ray scattering](#)
Journal of Molecular Biology **308** (2001) 721-743
- RUSSO D., DURAND D., CALMETTES P., DESMADRIL M. - [Characterization of the denatured states distribution of neocarzinostatin by small-angle neutron scattering and differential scanning calorimetry.](#)
Biochemistry **40** (2001) 3958-3966.
- RUSSO D., PEREZ J., ZANOTTI J.M., DESMADRIL M., DURAND D. - [Dynamic transition associated with the thermal denaturation of a small beta protein](#)
Biophysical Journal **82** (2002) 2792-2800
- SWENSON J., BERGMAN R., LONGEVILLE S. - [A neutron spin-echo study of confined water.](#)
Journal of Chemical Physics **115** (2001) 11299-11305.
- SWENSON J., BERGMAN R., LONGEVILLE S., HOWELLS W. S. - [Dynamics of 2D-water as studied by quasi-elastic neutron scattering and neutron resonance spin-echo.](#)
Physica B **301** (2001) 28-34
- SWENSON J., BERGMAN R., LONGEVILLE S. - [Experimental support for a dynamic transition of confined water.](#)
Journal of Non-Crystalline Solids) **307-310** (2002) 573-578.
- WANDERLINGH U.N., ALBERGAMO F., HAYWARD R.L., MIDDENDORF H.D. - [Biophysical applications of neutron Compton scattering](#)
Applied Physics A **74** (2002) S1283-S1286
- ZANOTTI J.-M., PARELLO J., BELLISSENT-FUNEL M.-C. [Influence of hydration and calcium binding on the parvalbumin protein dynamics](#)
Applied Physics A **74** (2002) S1277-S1279
- JOHANSSON M. - [Growth and decay of weakly pertuirbated discrete breathers](#)
"Nonlinearity and Disorder : Theory and Applications" Editors : F. Abdullaev, O. Bang, M.P. Sorensen, NATO Science Series Vol. 45 p197-203 (2001)
- JOHANSSON M., MORGANTE A.M., AUBRY S., KOPIDAKIS G. - [Standing wave instabilities, breathers formation and thermalization in Hamiltonian anharmonic lattices](#)
European Physical Journal B **29** (2002) 279-283
- KOPIDAKIS G., AUBRY S., TSIRONIS G.P. - [Targeted energy transfer through discrete breathers in nonlinear systems](#)
Physical Review Letters **87** (2001) 165501
- KOPIDAKIS G., AUBRY S. - [Discrete breathers in realistic models : hydrocarbon structures](#)
Physica B **296** (2001) 237-250
- MORGANTE A.M., JOHANSSON M., KOPIDAKIS G., AUBRY S. - [Standing waves in 1D nonlinear lattices](#)
"Nonlinearity and Disorder : Theory and Applications" Editors : F. Abdullaev, O. Bang, M.P. Sorensen
NATO Science Series Vol. 45 p. 205-211 (2001)



PUBLICATIONS

MORGANTE A.M., JOHANSSON M., KOPIDAKIS G., AUBRY S. - [Standing wave instabilities in a chain of nonlinear coupled oscillators](#)
Physica D **162** (2002) 53-94

MORGANTE A.M., JOHANSSON M., AUBRY S., KOPIDAKIS G. - [Breather-phonon resonances in finite-size lattices "phantom breathers"](#)
Journal of Physics. A **35** (2002) 4999-5021

PAPOULAR R.J. - [Automated estimations of asymmetric linewidth parameters for high-resolution X-ray & Neutron powder diffraction data](#)
Materials Science Forum **378-381** (2001) 262-267

POGOSSIAN S. P., MENELLE A., YOUSSEF J. BEN, EL HARFAOUI M., LE GALL H. - [Observation of polarization insensitive neutron waveguide modes in magnetic multilayered structures.](#)
Journal of Physics D **34** (2001) 1872-1877.

PROVILLE L., AUBRY S. - [Many polaron states in the Holstein-Hubbard model](#)
Journal of Statistical Physics **106** (2002) 1185-1195

RODRIGUEZ-CARVAJAL J. - [Recent developments of the program FullProf](#)
CPD Newsletter **26** (2001) 12-19

RODRIGUEZ-CARVAJAL J. - [Magnetic structure determination from powder diffraction symmetry analysis and simulated annealing.](#)
Materials Science Forum **378-381** (2001) 268-273.

RODRIGUEZ-CARVAJAL J. - [Magnetic structure determination from powder diffraction using the program FullProf.](#)
Applied Crystallography **18** (2001) 30-36

ROISNEL T., RODRIGUEZ-CARVAJAL J. - [WinPLOT: A Windows tool for powder diffraction pattern analysis.](#)
Materials Science Forum **378-381** (2001) 118-123.

8 - INSTRUMENTATION

BARONI P., PUJOLLE-ROBIC C., NOIREZ L. - [An integrated neutron Couette system for non-equilibrium studies of polymers under flow](#)
Review of Scientific Instruments **72** (2001) 2686-2690

BARONI P., PEPY G. - [Connecting a sapphire window to a high pressure flange](#)
Review of Scientific Instruments (Notes) **72** (2002) 480-481

DOAN T.D., OTT F., MENELLE A., HUMBERT P., FERMON C., PREJBEANU I.L., RÜCKER U. - [New evanescent neutron wave diffractometer at LLB](#)
Applied Physics A **74** (2002) S186-S188

OTT F., HUMBERT P., FERMON C., MENELLE A. - [Dynamical calculation of neutron scattering on a magnetic grating at grazing incidence](#)
Physica B **297** (2001) 189-193.

PLESHANOV N.K., BODNARCHUK V., GAEHLER R., KORNEEV D.A., MENELLE A., METELEV S.V., PUSENKOV V.M., SCHEBETOV A.F., UL'YANOV V.A. - [The use of remanent supermirrors for polarized neutron reflectometry with phase analysis](#)
Physica B **297** (2001) 126-130

POGOSSIAN S. P., LE GALL H., BEN-YOUSSEF J., MENELLE A. - [Coupling between neutron spin states in a proposed new spin directional coupler.](#)
Journal Magnetism and Magnetic Materials **237** (2001) 302-308.