

Keyword index Vol. 8, 2007

³¹P MAS-NMR – Ben Ayed F., 101
5-dimensional warped model – Contino R., 1058

A

Accretion – Goldwurm A., 35 – Lasota J.-P., 45
Achromatism – Aime C., 961
Active galactic nuclei – Danchi W.C., 396
Adaptive optics – Sivaramakrishnan A., 355
Aggregated globules – Boué F., 821
Aggregation – Mimouni Z., 115
Apodization – Kasdin N.J., 312
Asteroids – Consigli J.-F., 469
Astrometry – Sivaramakrishnan A., 355
Autonomous system – Sekimoto K., 650

B

Band-limited mask – Balasubramanian K., 288
Bidirectional control – Sekimoto K., 650
Bio-mimetic systems – Fragneto G., 865
Black holes – Bender R., 16 – Clénet Y., 26 – Goldwurm A., 35 – Lasota J.-P., 45
Broken symmetry – Brout R., 973

C

Centrifuge – Tsori Y., 955
Chain conformation – Boué F., 821

Chaos – Lecomte V., 609
Clathrates – Rols S., 777
Coherence bandwidth – Fannjiang A.C., 267
Coherence length – Fannjiang A.C., 267
Collisions – Consigli J.-F., 469
Colloidal suspension – Mimouni Z., 115
Compact binary systems – Blanchet L., 57
Composite – Ben Ayed F., 101
Composites – Withers P.J., 806
Confinement – Rols S., 777
Continuous measurement – Maes C., 591
Contrast ratio – Arenberg J.W., 438
Core-shell model – Boué F., 821
Coronagraph – Guyon O., 323
Coronagraphy – Ferrari A., 277 – Rouan D., 298 – Kasdin N.J., 312 – Bordé P., 349 – Sivaramakrishnan A., 355 – Abe L., 374 – Labeyrie A., 426 – Aime C., 961
Counterions – Boué F., 821
Critical frequency – Tsori Y., 955
Cubic nonlinear optics – Bencheikh K., 206
Cumulants – van Zon R., 633
Cuprates – Deutscher G., 937
Current fluctuations – Bodineau T., 540 – Andrieux D., 579
CW laser – Taira T., 138

D

D-branes – Benakli K., 1048
Debris disks – Danchi W.C., 396
Decay rate – Monnai T., 661

Deformed chains – Boué F., 821
Densification – Ben Ayed F., 101
Deuterated water – Boué F., 821
Deuteration – Boué F., 821
Difference-frequency generation – Chen W., 1129
Diffusion – Rols S., 777
Diode-pumping – Druon F., 153
Direct detection – Rouan D., 298 – Rouan D., 415
Displacements – van Zon R., 633
Domains – Deutscher G., 937
Dual-phase-lag transfer equations – Serdyukov S.I., 93
Dynamical randomness – Gaspard P., 598
Dynamo – Fauve S., 87

E

Einstein – Pierseaux Y., 921
Electric field – Mimouni Z., 115
Electromagnetic gauges – Pierseaux Y., 921
Electron-phonon interactions – Deutscher G., 937
Electroweak breaking – Ibáñez L.E., 1013
Electroweak symmetry breaking – Ellis J., 999 – Grojean C., 1068
Elliptic wavefront – Pierseaux Y., 921
Entropy flow – Imperato A., 556
Entropy per unit time – Gaspard P., 598
Entropy production – Andrieux D., 579 – De Roeck W., 674
Equations of motion – Blanchet L., 57

Exoplanet – Rouan D., 298 – Galicher R., 333 – Rouan D., 415
Exoplanet detection – Arenberg J.W., 438
Exoplanets – Ferrari A., 277 – Guyon O., 323 – Bordé P., 349 – Abe L., 374 – Aime C., 961
Extended thermodynamics – Serdyukov S.I., 93
Extra dimensions – Grojean C., 1068
Extrasolar planets – Danchi W.C., 396 – Ollivier M., 408

F

Femtosecond pulses – Druon F., 153
FFT analysis – El Motassadeq A., 929
Field theory – Brout R., 973
Field-induced magnetic ordering – Grenier B., 717
Fluctuation theorem – Derrida B., 483 – Gallavotti G., 486 – Cleuren B., 567 – Andrieux D., 579
Fluctuation theorems – Cohen E.G.D., 507 – Joubaud S., 518 – Fingerle A., 696
Fluctuations – van Zon R., 633 – Alonso D., 684
Fluorapatite – Ben Ayed F., 101
Fokker-Planck equation – Monnai T., 661
Forest fire – Kaiss A., 462
Frequency conversion – Raybaut M., 1205
Fuelbreak – Kaiss A., 462
Fullerenes – Rols S., 777
Fusion – Mezei F., 909

G

Galactic Center – Goldwurm A., 35
Galactic Centre – Clénet Y., 26
Galaxies – Bender R., 16
Gamma-ray astronomy – Goldwurm A., 35
Gas sensor – Joughannaud J., 456
Gauge invariance – Davier M., 986
Gel – Boué F., 821
General relativity – Mirabel I.F., 7 – Lasota J.-P., 45
Generalized detailed balance – Bodineau T., 540
Generalized entropy – Serdyukov S.I., 93

Generalized temperature – Serdyukov S.I., 93
GHZ – Bencheikh K., 206
GPS – Piersaux Y., 921
Grand unification – Ibáñez L.E., 1013
Granular gas – Visco P., 641
Gravitational waves – Vinet J.-Y., 69
Green's functions – van Zon R., 633

H

HCIT – Balasubramanian K., 288
Higgs – Ibáñez L.E., 1013 – Benakli K., 1048 – De Roeck A., 1078
Higgs boson – Ellis J., 999 – Georgi H., 1029 – Contino R., 1058
Higgs particle – Davier M., 986
Higgsless – Grojean C., 1068
High contrast imaging – Kasdin N.J., 312 – Galicher R., 333 – Rabbia Y., 385
High power neutron sources – Mezei F., 909
High pressure – Mirebeau I., 737
High resolution spectroscopy – Monkenbusch M., 845
High temperature superconductivity – Sidis Y., 745
Ho:YAG laser – Schellhorn M., 1151
Hypertelescope – Labeyrie A., 426

I

Image amplifiers – Lopez L., 199
Image analysis – Mimouni Z., 115
Image processing – Galicher R., 333
In situ studies – Isnard O., 789
Inelastic neutron scattering – Sidis Y., 745
Infrared – Godard A., 1100
Infrared instrumentation – Ollivier M., 408
Inner working angle – Arenberg J.W., 438
Instrumentation – Sivaramakrishnan A., 355
Interferometry – Rouan D., 415 – El Motassadeq A., 929
Isotopic labelling – Boué F., 821

L

Langevin systems – Cohen E.G.D., 507

Large deviations – Lecomte V., 609 – Visco P., 641
Laser – Druon F., 153 – Godard A., 1100
Laser absorption spectroscopy – Chen W., 1129
Laser beam cleanup – Lombard L., 234
Laser crystals – Pollnau M., 123 – Druon F., 153
Lennard-Jones fluid – van Zon R., 633
LHC – De Roeck A., 1078
Liquid state – Leclercq-Hugeux F., 884
Local equilibrium hypothesis – Serdyukov S.I., 93
Long inter-measurement time – Maes C., 591
Low instability – Allal A., 109
Low-dimensional magnetism – Grenier B., 717
Lyapunov modes – Taniguchi T., 625

M

Magnetic field – Fauve S., 87
Magnetic neutron scattering – Grenier B., 717
Magnetic surfaces – Ott F., 763
Magnetism – Mirebeau I., 737
Magneto-resistance – Essaleh L., 942
Matching – Boué F., 821
Metal oxides – Joughannaud J., 456
Microcavity – Diederichs C., 1198
Microphotonics – Viktorovitch P., 253
Microquasar – Mirabel I.F., 7
Microstructure – Ben Ayed F., 101
Microwaves – Joughannaud J., 456
Mid-infrared tunable laser source – Chen W., 1129
Mid-IR tuneable source – Berrou A., 1162
Mixed systems – Boué F., 821
Modelling – Allal A., 109 – Boué F., 821
Molecular biophysics – Ritort F., 528
Molecular motor – Sekimoto K., 650
Mott transition – Chuev G.N., 449

N

Nanocomposites – Boué F., 821
Nanoparticle – Bresselet S., 165
Nanotubes – Rols S., 777

Natural convection – El Motassadeq A., 929
Nd:YAG ceramics – Taira T., 138
Negative entropy – Williams S.R., 620
Neutron diffraction – Mirebeau I., 737 – Withers P.J., 806
Neutron scattering – Ott F., 763 – Rols S., 777 – Fragneto G., 865 – Leclercq-Hugeux F., 884 – Mezei F., 909
Neutron sources – Mezei F., 909
Neutron spectroscopy – Rols S., 777
Neutron spin-echo – Monkenbusch M., 845
New Worlds Observer – Arenberg J.W., 438
Non-equilibrium fluctuations – Derida B., 483
Non-equilibrium steady state – Derida B., 483 – Bodineau T., 540
Non-equilibrium work – Derrida B., 483
Non-Gaussian effects – van Zon R., 633
Non-linear optics – Jancu J.-M., 1174
Non-Markovian – Alonso D., 684
Nonclassical states of light – Bencheikh K., 206
Nonequilibrium fluctuations – Maes C., 591
Nonequilibrium physics – Cleuren B., 567 – Fingerle A., 696
Nonequilibrium processes – Imparato A., 556
Nonequilibrium statistical physics – Gallavotti G., 486
Nonequilibrium steady state – Andrieux D., 579
Nonequilibrium steady-state – Visco P., 641
Nonequilibrium systems – Jarzynski C., 495 – Taniguchi T., 625
Nonequilibrium thermodynamics – Ritort F., 528
Nonlinear crystals – Bencheikh K., 206
Nonlinear optics – Brasselet S., 165
Nulling coronagraph – Shao M., 340
Nulling interferometer – Danchi W.C., 396
Nulling interferometry – Ollivier M., 408
Nulling techniques – Rabbia Y., 385

O

Occulter – Arenberg J.W., 438
Occulting mask – Balasubramanian K., 288
Open quantum systems – Alonso D., 684
OPO – Schellhorn M., 1151
Optical detection – Vinet J.-Y., 69
Optical materials – Jancu J.-M., 1174
Optical parametric oscillation – Diederichs C., 1198
Optical parametric oscillator – Berrou A., 1162
Optical parametric source – Godard A., 1100
Optical waveguides – Pollnau M., 123
Oscillatory process – Williams S.R., 620
Out of equilibrium – Joubaud S., 518

P

Pairing – Deutscher G., 937
Parametric amplification – Lopez L., 199
Parametric fluorescence – Bencheikh K., 206 – Ravaro M., 1184
Parametric frequency conversion – Bencheikh K., 206
Phase matching – Raybaut M., 1205
Phase separation – Chuev G.N., 449
Phase-matching – Chen W., 1129
Phase-transition – Tsori Y., 955
Photometry – Sivaramakrishnan A., 355
Photonic crystals – Viktorovitch P., 253
Photorefractive materials – Lombard L., 234
Planet detection – Sivaramakrishnan A., 355
Planet formation – Danchi W.C., 396
Poincaré – Piereaux Y., 921
Pointing stability – Schellhorn M., 1151
Polyelectrolyte – Boué F., 821
Polymer – Allal A., 109 – Boué F., 821
Post-Newtonian theory – Blanchet L., 57
Powder neutron diffraction – Isnard O., 789

Proteins – Boué F., 821
Pseudo-Goldstone boson – Georgi H., 1029 – Contino R., 1058
Pulsed sources – Mezei F., 909

Q

Quadratic spatial solitons – Stegeman G.I., 221
Quantum cascade laser – Godard A., 1100
Quantum correlations – Bencheikh K., 206
Quantum fluctuation theorem – De Roeck W., 674
Quantum fluctuations and correlations – Lopez L., 199
Quantum information – Gaj J.A., 243 – Ravaro M., 1184
Quantum optics – Lopez L., 199 – Bencheikh K., 206

R

Radiative corrections – Davier M., 986
Radiative transfer – Fannjiang A.C., 267
Rare-earth – Godard A., 1100
Reflection – Hadjoub Z., 948
Relativistic jets – Lasota J.-P., 45
Relativity – Piereaux Y., 921
Residual speckle – Shao M., 340
Residual stress – Withers P.J., 806
Resonance tunneling – Monnai T., 661

S

Sagnac – Piereaux Y., 921
Satellites – Consigli J.-F., 469
Semiconductor – Essaleh L., 942
Semiconductor heterostructures – Gaj J.A., 243
Semiconductor laser – Godard A., 1100
Semiconductor nanostructures – Jancu J.-M., 1174
Semiconductor nonlinear optics – Raybaut M., 1205
Semiconductor waveguides – Ravaro M., 1184
Semiconductors – Diederichs C., 1198
Shaped pupil – Kasdin N.J., 312

Sharkskin – Allal A., 109
Shearography – El Motassadeq A., 929
Silica particles – Boué F., 821
Simultaneous polarization – Sivaramakrishnan A., 355
Single molecule experiments – Rittort F., 528
Sintering – Ben Ayed F., 101
Small angle neutron scattering – Isnard O., 789 – Boué F., 821
Small world network – Kaiss A., 462
Smart materials – Withers P.J., 806
Soft matter – Monkenbusch M., 845
Solar System – Consigli J.-F., 469
Soliton – Stegeman G.I., 221
Solvated electrons – Chuev G.N., 449
Space telescope – Abe L., 374
Spallation – Mezei F., 909
Spatial spread – Fannjiang A.C., 267
Specific optical cavity – Berrou A., 1162
Speckles – Bordé P., 349
Spectroscopy – Abe L., 374
Spin dynamics – Sidis Y., 745
Spin excitations – Grenier B., 717
Spintronics – Gaj J.A., 243
Spontaneous symmetry breaking – Davier M., 986
Spotting – Kaiss A., 462
Standard Model – Georgi H., 1029
Statistical physics – Brout R., 973
Stellar coronagraphy – Rabbia Y., 385
Stiffening effect – Hadjoub Z., 948
Structural integrity – Withers P.J., 806

Superconductors – Deutscher G., 937
Supersymmetry – Ellis J., 999 – Ibáñez L.E., 1013
Surface acoustic waves – Hadjoub Z., 948

T

Telescope – Guyon O., 323
Temperature measurement – El Motassadeq A., 929
Thermal diffusion – Monnai T., 661
Thermodynamic entropy production – Gaspard P., 598
Thermodynamic forces – Andrieux D., 579
Thermodynamic formalism – Lecomte V., 609
Thin films – Hadjoub Z., 948
Tilted periodic potential – Monnai T., 661
Time expansion – van Zon R., 633
Time resolved investigation – Isnard O., 789
Time reversal – Gaspard P., 598
Tm:YLF laser – Schellhorn M., 1151
Tolerancing – Arenberg J.W., 438
TPF coronagraph – Balasubramanian K., 288
Trace gas detection – Chen W., 1129
Transition metal – Godard A., 1100
Tricalcium phosphate – Ben Ayed F., 101
Turbulence – Fauve S., 87
Twin photons – Diederichs C., 1198
Two-frequency Wigner distribution – Fannjiang A.C., 267

V

Van Hove self-correlation function – van Zon R., 633
Variable range hopping – Essaleh L., 942
Velocity dispersion – Hadjoub Z., 948
Vibrations – Rols S., 777

W

Welding – Withers P.J., 806
Wilson line – Benakli K., 1048
WKB analysis – Monnai T., 661
Work – Joubaud S., 518 – van Zon R., 633
Work distribution – Imperato A., 556
Work relations – Jarzynski C., 495
Work theorem – Cleuren B., 567

X

X-ray astronomy – Goldwurm A., 35

Y

Yb:YAG/ceramic YAG – Taira T., 138

Z

Zeolites – Rols S., 777
ZnGeP₂ – Schellhorn M., 1151