



ELSEVIER

PHYSICS REPORTS

www.elsevier.com/locate/physrep

Subject index to volumes 341–350

General

- Symmetry, Invariants, Topology. Basic tools, L. Michel and B.I. Zhilinskii 341 (2000) 11
- Rydberg states of atoms and molecules. Basic group theoretical and topological analysis, L. Michel and B.I. Zhilinskii 341 (2000) 173
- Elementary energy bands in crystals are connected, L. Michel and J. Zak 341 (2000) 377
- Techniques of replica symmetry breaking and the storage problem of the McCulloch–Pitts neuron, G. Györgyi 342 (2001) 263
- Supergravity couplings: a geometric formulation, P. Binétruy, G. Girardi, R. Grimm 343 (2001) 255
- Phase coherent transmission through interacting mesoscopic systems, G. Hackenbroich 343 (2001) 463
- Precise determination of critical exponents and equation of state by field theory methods, J.Z. Zinn-Justin 344 (2001) 159
- Monte Carlo tests of renormalization-group predictions for critical phenomena in Ising models, K. Binder and E. Luijten 344 (2001) 179
- Gamma-ray bursts as LIGO/VIRGO sources of gravitational radiation, M.H.P.M. van Putten 345 (2001) 1
- Very high multiplicity hadron processes, J. Manjavidze and A. Sissakian 346 (2001) 1
- Embedded random matrix ensembles for complexity and chaos in finite interacting particle systems, V.K.B S. Kota 347 (2001) 223
- Integral-geometry morphological image analysis, K. Michielsen and H. De Raedt 347 (2001) 461
- Renormalizing the renormalization group pathologies, J. Bricmont, A. Kupiainen and R. Lefevre 348 (2001) 5
- Using Wilson’s renormalization group to repair symmetries, R.J. Perry 348 (2001) 33
- Exact renormalization group equations: an introductory review, C. Bagnuls and C. Bervillier 348 (2001) 91
- Renormalizing systems with strong quenched randomness, D.A. Huse 348 (2001) 159
- The forced oscillator method: Eigenvalue analysis and computing linear response functions, T. Nakayama and K. Yakubo 349 (2001) 239
- Microscopic model approaches to fragmentation of nuclei and phase transitions in nuclear matter, J. Richert and P. Wagner 350 (2001) 1
- The Bogoliubov model of weakly imperfect Bose gas, V.A. Zagrebnov and J.-B. Bru 350 (2001) 291

The physics of elementary particles and fields

- Symmetry, invariants, and topology in molecular models, B.I. Zhilinskii 341 (2000) 85
- Theory of light hydrogenlike atoms, M.I. Eides, H. Grotch and V.A. Shelyuto 342 (2001) 63

QCD forces and heavy quark bound states, G.S. Bali	343 (2001) 1
Supergravity couplings: a geometric formulation, P. Binétruy, G. Girardi, R. Grimm	343 (2001) 255
The statistical mechanics of membranes, M.J. Bowick and A. Travesset	344 (2001) 255
Supersymmetry in particle physics: the renormalization group viewpoint, D.I. Kazakov	344 (2001) 309
Survey of present data on photon structure functions and resolved photon processes, M. Krawczyk, A. Zembruski and M. Staszel	345 (2001) 265
New superconformal field theories in four dimensions and $N = 1$ duality, M. Chaichian, W.F. Chen and C. Montonen	346 (2001) 89
CP violation in top physics, D. Atwood, S. Bar-Shalom, G. Eilam and A. Soni	347 (2001) 1
Dense nuclear matter: Landau Fermi-liquid theory and chiral Lagrangian with scaling, C. Song	347 (2001) 289
Using Wilson's renormalization group to repair symmetries, R.J. Perry	348 (2001) 33
Flow equations for Hamiltonians, F.J. Wegner	348 (2001) 77
Exact renormalization group equations: an introductory review, C. Bagnuls and C. Bervillier	348 (2001) 91
Hardon multiplicities, I.M. Dremin and J.W. Gary	349 (2001) 301
Parton-based Gribov–Regge theory, H.J. Drescher, M. Hladik, S. Ostapchenko, T. Pierog and K. Werner	350 (2001) 93

Nuclear physics

Phase transitions and crystalline structures in neutron star cores, N.K. Glendenning	342 (2001) 393
Embedded random matrix ensembles for complexity and chaos in finite interacting particle systems, V.K.B. Kota	347 (2001) 223
Dense nuclear matter: Landau Fermi-liquid theory and chiral Lagrangian with scaling, C. Song	347 (2001) 289
The three-body problem with short-range interactions, E. Nielsen, D.V. Fedorov, A.S. Jensen and E. Garrido	347 (2001) 373
Microscopic model approaches to fragmentation of nuclei and phase transitions in nuclear matter, J. Richert and P. Wagner	350 (2001) 1

Atomic and molecular physics

Symmetry, Invariants, Topology. Basic tools, L. Michel and B.I. Zhilinskiĭ	341 (2000) 11
Symmetry, invariants, and topology in molecular models, B.I. Zhilinskiĭ	341 (2000) 85
Rydberg states of atoms and molecules. Basic group theoretical and topological analysis, L. Michel and B.I. Zhilinskiĭ	341 (2000) 173
Theory of light hydrogenlike atoms, M.I. Eides, H. Grotch and V.A. Shelyuto	342 (2001) 63
Atomic phenomena in bichromatic laser fields, F. Ehlotzky	345 (2001) 175
The three-body problem with short-range interactions, E. Nielsen, D.V. Fedorov, A.S. Jensen and E. Garrido	347 (2001) 373
The forced oscillator method: Eigenvalue analysis and computing linear response functions, T. Nakayama and K. Yakubo	349 (2001) 239

Condensed matter: structure, thermal and mechanical properties

- Fundamental concepts for the study of crystal symmetry, L. Michel 341 (2000) 265
- The ring of invariant real functions on the Brillouin zone, J.S. Kim, L. Michel and B.I. Zhilinskii 341 (2000) 337
- Techniques of replica symmetry breaking and the storage problem of the McCulloch–Pitts neuron, G. Györgyi 342 (2001) 263
- The statistical mechanics of membranes, M.J. Bowick and A. Travesset 344 (2001) 255
- Effective interactions in soft condensed matter physics, C.N. Likos 348 (2001) 267
- The forced oscillator method: Eigenvalue analysis and computing linear response functions, T. Nakayama and K. Yakubo 349 (2001) 239
- Microscopic model approaches to fragmentation of nuclei and phase transitions in nuclear matter, J. Richert and P. Wagner 350 (2001) 1
- The Bogoliubov model of weakly imperfect Bose gas, V.A. Zagrebnov and J.-B. Bru 350 (2001) 291

Condensed matter: electronic structure, electrical, magnetic and optical properties

- Elementary energy bands in crystals are connected, L. Michel and J. Zak 341 (2000) 377
- Techniques of replica symmetry breaking and the storage problem of the McCulloch–Pitts neuron, G. Györgyi 342 (2001) 263
- Ultrafast excitation energy transfer dynamics in photosynthetic pigment–protein complexes, T. Renger and V. May 343 (2001) 137
- Phase coherent transmission through interacting mesoscopic systems, G. Hackenbroich 343 (2001) 463
- Colossal magnetoresistant materials: the key role of phase separation, E. Dagotto, T. Hotta and A. Moreo 344 (2001) 1
- Renormalization group theory in the new millennium, D. O’Connor and C.R. Stephens 344 (2001) 155
- Spectroscopy of discrete energy levels in ultrasmall metallic grains, J. von Delft and D.C. Ralph 345 (2001) 61
- Colossal-magnetoresistance materials: manganites and conventional ferromagnetic semiconductors, E.L. Nagaev 346 (2001) 387
- Dense nuclear matter: Landau Fermi-liquid theory and chiral Lagrangian with scaling, C. Song 347 (2001) 289
- Flow equations for Hamiltonians, F.J. Wegner 348 (2001) 77
- Brillouin light scattering studies of confined spin waves: linear and nonlinear confinement, S.O. Demokritov, B. Hillebrands, A.N. Slavin 348 (2001) 441
- Phase fluctuations and pseudogap phenomena, V.M. Loktev, R.M. Quick and S.G. Sharapov 349 (2001) 1
- The forced oscillator method: Eigenvalue analysis and computing linear response functions, T. Nakayama and K. Yakubo 349 (2001) 239
- BEEM imaging and spectroscopy of buried structures in semiconductors, V. Narayanamurti and M. Kozhevnikov 349 (2001) 447

Cross-disciplinary physics and related areas of science and technology

- Disordered heteropolymers: models for biomimetic polymers and polymers with frustrating quenched disorder, A.K. Chakraborty 342 (2001) 1

Techniques of replica symmetry breaking and the storage problem of the McCulloch–Pitts neuron, G. Györgyi	342 (2001) 263
Ultrafast excitation energy transfer dynamics in photosynthetic pigment–protein complexes, T. Renger and V. May	343 (2001) 137
The statistical mechanics of membranes, M.J. Bowick and A. Travasset	344 (2001) 255
Force spectroscopy on single passive biomolecules and single biomolecular bonds, R. Merkel	346 (2001) 343
Effective interactions in soft condensed matter physics, C.N. Likos	348 (2001) 267
Dynamic fitness landscapes in molecular evolution, C.O. Wilke, C. Ronnewinkel and T. Martinetz	349 (2001) 395

Geophysics, astronomy and astrophysics

Phase transitions and crystalline structures in neutron star cores, N.K. Glendenning	342 (2001) 393
Gamma-ray bursts as LIGO/VIRGO sources of gravitational radiation, M.H.P.M. van Putten	345 (2001) 1
Magnetic fields in the early Universe, D. Grasso and H.R. Rubinstein	348 (2001) 163
In the beginning: the first sources of light and the reionization of the universe, R. Barkana and A. Loeb	349 (2001) 125