NONEXTENSIVE STATISTICAL MECHANICS AND THERMODYNAMICS: BIBLIOGRAPHY *

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GENERAL THEORY

Generalized entropy and thermostatistics: [1]
Connection to thermodynamics, ensembles and Jaynes' information theory: [2–865, 867–1191, 1193–1611]
H-theorem and irreversibility: [1612–1643]
Ehrenfest theorem, von Neumann equation: [3, 1644–1650]
Quantum statistics: [1651–1753]
Variational and perturbative methods; Bogolyubov inequality; Green functions; Path integral; Boltzmann equation: [1664, 1754–1843]
Langevin and Fokker-Planck equations: [1616, 1649, 1655, 1824, 1844–2226]
Fluctuation-dissipation, Nyquist and Onsager reciprocity theorems, Kubo's linear response theory and Kramers-Kronig relation: [6, 2227–2242]
Poisson equation: [2243–2252]
Callen identity: [2253]
Ising transmissivity: [2254]
Classical equipartition principle: [2255–2257]
Connection with quantum uncertainty: [2258–2292]
Connection with Fisher information measure: [2293–2305]
Connection with ergodicity, nonlinear dynamical systems, self-organized criticality, cellular automata, fractals: [9, 45, 50–52, 1725, 2306–2673]
Connection with general relativity, cosmology, dark energy, string theory: [2294, 2674–2754]
Connection with quantum groups and quantum mechanics: [2755–2799]
Connection with wavelets; Signal processing; EEG: [2800–2866]
Connection with quantum correlated many-body problems: [2867–2877]
Connection with the Gentile and the exclusion Haldane statistics: [2878–2881]
Connection with finite systems: [2227, 2878]
Rigorous results (generalized entropy and thermostatistics): [2309–2314, 2882–2887]
Integral transformations (Hilhorst and Prato formulae): [1653, 2227, 2888–2890]

ONE-BODY SYSTEMS

Two-level system: [1, 2891]
Harmonic and anharmonic oscillators: [865, 866, 874, 2886, 2891–2893]
Free particle: [2894]
Larmor precession: [1646]
Rigid rotator: [2889, 2895–2897]
Hydrogen and hydrogen-like atoms: [1035, 1037, 2898–2917]

*This regularly updated Bibliography (at http://tsallis.cat.cbpf.br/biblio.htm) contains 6400 articles from 12874 signing (co)authors. It does *not* address the vast existing literature addressing nonextensive thermodynamical anomalies, but *only* articles including at least one substantial relation with nonadditive entropies, nonextensive statistical mechanics and thermodynamics. It is a fairly complete listing whose indexation is, however, only indicative.

MANY-BODY SYSTEMS

Ideal, classical gases, and other toy models: [2227, 2255, 2888, 2918–2942]
Independent spin paramagnet, Landau magnetism: [2760, 2763–2766, 2943–2950]
Black-body radiation and photonic systems: [2951–3000]
$d = 1$ Ising ferromagnet: [3001–3005]
$d \geq 2$ Ising and other ferromagnets: [2254, 3006–3048]
Infinite-range Ising ferromagnet: [3049]
Potts ferromagnet, Molecular field approximation: [2253, 3023, 3050–3053]
Percolation: [3054–3056]
Electron-phonon systems; tight-binding-like Hamiltonians; nanosystems; theoretical chemistry: [3057–3112]

APPLICATIONS

Self-gravitating systems, Stellar polytropes, Vlasov equation, Galaxies, Galaxy clusters:
[1807, 2243, 2294, 3113–3242]
Lévy-like and correlated anomalous diffusion:
[16, 1907, 1908, 1959–1964, 1969, 1980, 1985, 1986, 1992, 3243–3302]
Turbulence; Granular matter; Viscous fingering; Navier-Stokes equation; Boltzmann equation; Mossbauer effect:
[2243, 3288–3291, 3303–3536]
Solar neutrinos; High energy physics: [3537–3963]
Ferrofluid-like materials, Lennard-Jones fluids: [3040, 3964–3985]
Solitons: [3986, 3987]
Plasma (electron velocity distribution, magnetohydrodynamics): [3988–4257, 4259–4352]
Glass, Spin-glass: [4353–4385]
Superfluid helium; Bose-Einstein condensation: [4386–4401]
Test of Boltzmann-Gibbs thermostatistics: [2678, 2970, 2971]
Cosmic rays; Elementary particles: [3942, 4402–4614]
Biological systems; Microemulsions; Liquid crystals: [4615–4705]
Stochastic resonance; Brownian motors: [4706–4741]
Connection with the Theory of perceptions: [16]
Connection with the Theory of finances: [6, 3304, 4727, 4728, 4730–4732, 4742–4901]
Consistent testing; Statistical inference; Theory of probabilities: [479–519, 1803, 4902–4940]
Theory of functions; Geometric approaches: [1105–1111, 1113–1137, 1139–1149, 1154–1173, 1175–1191, 1193, 1198, 1200, 4941–5143]
Simulated annealing and optimization techniques; Monte Carlo (Genetics, Traveling salesman problem, Data fitting curves, Quantum chemistry, Gravity models, Lennard-Jones clusters, Thomson model, spin systems, proteins, nucleic acids): [1825, 3034, 5144–5431]
Neural and other networks: [4675, 4676, 5432–5534]
Analysis of time series (nonlinear dynamics, epilepsy, earthquakes, economics) and images: [2800–2805, 2814–2816, 2819–2822, 5535–6023]
Geophysics: [2821, 2822, 5599, 6024–6081]
Medicine; Tomography: [2823, 2828–2830, 5535, 5785, 6082–6132]
Symbolic dynamics, linguistics, philology, cognitive sciences, hydrology, ecology: [2348, 2350, 2378–2386, 5097, 6133–6260]

GENERAL READING

Generalized thermostatistics; Generalized distributions: [428, 6261–6400]

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