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: [2–42, 44–98, 100–281, 281–337, 339–455, 457–910, 910–1504, 1504–1633, 1635–1878, 1880–1976, 1991–2022, 2024–2123, 2125–2246, 2248–2485, 2485–3165]
H-theorem and irreversibility: [3166–3228]
Ehrenfest theorem, von Neumann equation: [3, 3229–3235]
Quantum statistics: [3236–3368]
Variational and perturbative methods; Bogolyubov inequality; Green functions; Path integral; Boltzmann equation: [3254, 3369–3470]
Langevin and Fokker-Planck equations: [3170–3192, 3197–3205, 3207–3244, 3447–3450, 3452–3658, 3660–4021]
Fluctuation-dissipation, Nyquist and Onsager reciprocity theorems, Kubo's linear response theory and Kramers-Kronig relation: [6, 4022–4044]
Poisson equation: [4045–4061]
Callen identity: [4062]
Ising transmissivity: [4063]
Classical equipartition principle: [4064–4066]
Connection with quantum uncertainty: [4067–4123]
Connection with Fisher information measure: [4124–4138]
Connection with ergodicity, nonlinear dynamical systems, self-organized criticality, cellular automata, fractals: [9, 103–111, 3333, 4139–4359, 4361–4430, 4432–4659]
Connection with general relativity, cosmology, dark energy, string theory: [4125, 4660–4867]
Connection with quantum groups and quantum mechanics: [4868–4919]
Connection with wavelets; Signal processing; EEG: [4920–5029, 5029–5038]
Connection with quantum correlated many-body problems: [5039–5051]
Connection with the Gentile and the exclusion Haldane statistics: [5052–5055]
Connection with finite systems: [4022, 5052]
Rigorous results (generalized entropy and thermostatistics): [4143–4148, 5056–5061]
Integral transformations (Hilhorst and Prato formulae): [3242, 4022, 5062–5065]

ONE-BODY SYSTEMS

Two-level system: [1, 5066]
Harmonic and anharmonic oscillators: [1646–1652, 1654–1667, 5060–5068]
Free particle: [5069–5074]
Larmor precession: [3231]

*This regularly updated Bibliography (at http://tsallis.cat.cbpf.br/biblio.htm) contains 10417 articles from 17354 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 classification and indexation are, however, only indicative.

Rigid rotator: [5064–5070, 5075–5078]
Hydrogen and hydrogen-like atoms: [1875–1880, 1885–1890, 5079–5111]

MANY-BODY SYSTEMS

Ideal, classical gases, and other toy models: [4022–4064, 5062–5069, 5075–5138]
Independent spin paramagnet, Landau magnetism: [4874–4880, 5139–5146]
Black-body radiation and photonic systems: [5147–5210]
$d = 1$ Ising ferromagnet: [5211–5215]
$d \geq 2$ Ising and other ferromagnets: [4063, 5216–5265]
Infinite-range Ising ferromagnet: [5266]
Potts ferromagnet, Molecular field approximation: [4062, 5233–5252, 5257–5270]
Percolation: [5271–5273]
Electron-phonon systems; tight-binding-like Hamiltonians; nanosystems; theoretical chemistry: [5274–5330]

APPLICATIONS

Self-gravitating systems, Stellar polytropes, Vlasov equation, Galaxies, Galaxy clusters:
[3429, 4045, 4125, 5331–5515]
Lévy-like and correlated anomalous diffusion:
[19, 3549, 3550, 3621–3648, 3651–3658, 3660–3676, 5516–5581, 5589–5597]
Turbulence; Granular matter; Viscous fingering; Navier-Stokes equation; Boltzmann equation; Mossbauer effect:
[4045, 5561–5590, 5598–5953]
Solar neutrinos; High energy physics: [5954–6098, 6100–6162, 6164–6239, 6241–6274, 6276–6692]
Ferrofluid-like materials, Lennard-Jones and other fluids: [5257, 6682, 6693–6715]
Solitons: [6716, 6717]
Plasma (electron velocity distribution, magnetohydrodynamics): [6718–7289]
Glass, Spin-glass: [7290–7331]
Superfluid helium; Bose-Einstein condensation: [7332–7357]
Test of Boltzmann-Gibbs thermostatistics: [4688, 5175, 5176]
Cosmic rays; Elementary particles: [7355–7618]
Biological systems; Microemulsions; Liquid crystals: [7619–7764]
Stochastic resonance; Brownian motors: [7765–7791, 7794, 7796–7811]
Connection with the Theory of perceptions: [19, 20]
Connection with the Theory of finances: [7783–8032]
Consistent testing; Statistical inference; Theory of probabilities: [1058–1064, 1066–1075, 1077–1153, 3425, 8034–8134]
Theory of functions: [1975–1990, 1995–2022, 2024, 2027–2062, 2073–2085, 2087, 2088, 2090–2098, 2100–2120, 2147–2166, 2170–2220, 2224–2229, 2242–2257, 2259–2277, 2280, 2281, 2283–2290, 2300–2302, 6898, 8135–8432]
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): [3448, 5244, 8433–8898]
Neural and other networks: [1069, 7716, 7717, 8899–9034, 9036–9052]
Analysis of time series (nonlinear dynamics, epilepsy, earthquakes, economics) and images: [4920–4947, 9053–9778]
Geophysics: [4946, 4947, 9146, 9779–9881]
Medicine; Tomography: [4948–4955, 9053–9055, 9430, 9882–9984]
Symbolic dynamics, linguistics, philology, cognitive sciences, social sciences, hydrology, ecology: [4195–4205, 4207–4229, 4233–4256, 8367, 9985–10002, 10004–10187]

GENERAL READING

Generalized thermostatistics; Generalized distributions: [987, 10188–10417]

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