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: [2–20, 22–310, 312–419, 419–510, 512–809, 811–1160, 1162–1318, 1318–2046, 2046–2192, 2194–2235, 2238–2463, 2466–2568, 2595–2629, 2631–2664, 2666–2769, 2771–2918, 2920–4067]
H-theorem and irreversibility: [4068–4138]
Ehrenfest theorem, von Neumann equation: [3, 4139–4145]
Quantum statistics: [4146–4287]
Variational and perturbative methods; Bogolyubov inequality; Green functions; Path integral; Boltzmann equation: [4166, 4288–4391]
Langevin and Fokker-Planck equations: [4072–4094, 4100–4112, 4115–4154, 4366–4369, 4371–4594, 4596–4988]
Fluctuation-dissipation, Nyquist and Onsager reciprocity theorems, Kubo's linear response theory and Kramers-Kronig relation: [6, 4989–5012]
Poisson equation: [5013–5030]
Callen identity: [5031]
Ising transmissivity: [5032]
Classical equipartition principle: [5033–5035]
Connection with quantum uncertainty: [5036–5100]
Connection with Fisher information measure: [5101–5116]
Connection with ergodicity, nonlinear dynamical systems, self-organized criticality, cellular automata, fractals: [9, 176–187, 4250, 5117–5350, 5352–5442, 5444–5692]
Connection with general relativity, cosmology, dark energy, string theory: [5102, 5693–5732, 5735–5955]
Connection with quantum groups and quantum mechanics: [5956–6012]
Connection with wavelets; Signal processing; EEG: [6013–6128, 6128–6151]
Connection with quantum correlated many-body problems: [6152–6166]
Connection with the Gentile and the exclusion Haldane statistics: [6167–6170]
Connection with finite systems: [4989, 6167]
Rigorous results (generalized entropy and thermostatistics): [5121–5126, 6171–6176]
Integral transformations (Hilhorst and Prato formulae): [4152, 4989, 6177–6180]

ONE-BODY SYSTEMS

Two-level system: [1, 6181]
Harmonic and anharmonic oscillators: [2205–2211, 2215–2238, 6175–6183]
Free particle: [6184–6189]
Larmor precession: [4141]

*This regularly updated Bibliography (at http://tsallis.cat.cbpf.br/biblio.htm) contains 11971 articles from 19228 signing (co)authors. It does *not* address the vast existing literature merely citing papers within the present generalization of Boltzmann-Gibbs concepts, but *exclusively* 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: [6179–6185, 6190–6193]
Hydrogen and hydrogen-like atoms: [2460–2466, 2471–2479, 6194–6226]

MANY-BODY SYSTEMS

Ideal, classical gases, and other toy models: [4989–5029, 5031–5033, 6177–6184, 6190–6254]
Independent spin paramagnet, Landau magnetism: [5962–5969, 6255–6262]
Black-body radiation and photonic systems: [6263–6327]
$d = 1$ Ising ferromagnet: [6328–6332]
$d \geq 2$ Ising and other ferromagnets: [5032, 6333–6385]
Infinite-range Ising ferromagnet: [6386]
Potts ferromagnet, Molecular field approximation: [5031, 6350–6369, 6374–6390]
Percolation: [6391–6393]
Electron-phonon systems; tight-binding-like Hamiltonians; nanosystems; theoretical chemistry: [6394–6452]

APPLICATIONS

Self-gravitating systems, Stellar polytropes, Vlasov equation, Galaxies, Galaxy clusters:
[4348, 5013, 5102, 6453–6651]
Lévy-like and correlated anomalous diffusion:
[19, 4475–4478, 4551–4583, 4587–4594, 4596–4612, 6652–6703, 6705–6718, 6726–6733, 6735, 6736]
Turbulence; Granular matter; Viscous fingering; Navier-Stokes equation; Boltzmann equation; Mossbauer effect:
[5013, 6697–6727, 6737–7143]
Solar neutrinos; High energy physics: [7144–7332, 7334–7400, 7402–7483, 7485–7518, 7520**?** –7963]
Ferrofluid-like materials, Lennard-Jones and other fluids: [6374, 7950, 7964–7986]
Solitons: [7987, 7988]
Plasma (electron velocity distribution, magnetohydrodynamics): [7989–8593]
Glass, Spin-glass: [8594–8638]
Superfluid helium; Bose-Einstein condensation: [8639–8664]
Test of Boltzmann-Gibbs thermostatistics: [5737, 6292, 6293]
Cosmic rays; Elementary particles: [8662–8936]
Biological systems; Microemulsions; Liquid crystals: [8937–8939, 8941–9094]
Stochastic resonance; Brownian motors: [9095–9121, 9124, 9126–9141]
Connection with the Theory of perceptions: [19–21]
Connection with the Theory of finances: [9113–9384]
Consistent testing; Statistical inference; Theory of probabilities: [1523–1532, 1534–1545, 1547–1567, 1570–1598, 1600–1644, 4344, 9386**?** –9510]
Theory of functions: [2567–2594, 2600–2629, 2631, 2634–2664, 2666–2682, 2698–2710, 2712, 2713, 2715–2723, 2725–2746, 2806–2827, 2831–2888, 2892–2898, 2914–2934, 2937–2959, 2962, 2963, 2965–2973, 2997–3000, 8184, 9511–9812]
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): [4367, 6361, 9813–10334]
Neural and other networks: [1537, 9040, 9041, 10335–10486, 10488–10506]
Analysis of time series (nonlinear dynamics, epilepsy, earthquakes, economics) and images: [6013–6042, 10507–11285]
Geophysics: [6041, 6042, 10606, 11286–11393]
Medicine; Tomography: [6043–6050, 10507–10509, 10912, 11394–11501]
Symbolic dynamics, linguistics, philology, cognitive sciences, social sciences, hydrology, ecology: [5175–5187, 5189–5211, 5216–5243, 9747, 11502–11716, 11718]

GENERAL READING

Generalized thermostatistics; Generalized distributions: [1412, 11717, 11719–11882, 11884–11971]

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