NONEXTENSIVE STATISTICAL MECHANICS AND THERMODYNAMICS: BIBLIOGRAPHY *

January 8, 2019

GENERAL THEORY

Generalized entropy and thermostatistics: [1]
Connection to thermodynamics, ensembles and Jaynes’ information theory: [2–17, 19–568, 570–1196, 1198–1814]
H-theorem and irreversibility: [1815–1849]
Ehrenfest theorem, von Neumann equation: [3, 1850–1856]
Quantum statistics: [1857–1966]
Variational and perturbative methods; Bogolyubov inequality; Green functions; Path integral; Boltzmann equation: [1870, 1967–2061]
Langevin and Fokker-Planck equations: [1819–1861, 2040–2060, 2062–2473]
Fluctuation-dissipation, Nyquist and Onsager reciprocity theorems, Kubo’s linear response theory and Kramers-Kronig relation: [6, 2474–2491]
Poisson equation: [2492–2501]
Callen identity: [2502]
Ising transmissivity: [2503]
Classical equipartition principle: [2504–2506]
Connection with quantum uncertainty: [2507–2545]
Connection with Fisher information measure: [2546–2558]
Connection with ergodicity, nonlinear dynamical systems, self-organized criticality, cellular automata, fractals: [9, 52–60, 1937, 2559–2950]
Connection with general relativity, cosmology, dark energy, string theory: [2547, 2951–3045]
Connection with quantum groups and quantum mechanics: [3046–3090]
Connection with wavelets; Signal processing; EEG: [3091–3170]
Connection with quantum correlated many-body problems: [3171–3181]
Connection with the Gentile and the exclusion Haldane statistics: [3182–3185]
Connection with finite systems: [2474, 3182]
Rigorous results (generalized entropy and thermostatistics): [2562–2567, 3186–3191]
Integral transformations (Hilhorst and Prato formulae): [1859, 2474, 3192–3194]

ONE-BODY SYSTEMS

Two-level system: [1, 3195]
Harmonic and anharmonic oscillators: [943–952, 3190–3197]
Free particle: [3198]
Larmor precession: [1852]
Rigid rotator: [3193–3201]
Hydrogen and hydrogen-like atoms: [1119–1124, 1126, 3202–3227]

*This regularly updated Bibliography (at http://tsallis.cat.cbpf.br/biblio.htm) contains 7038 articles from 13546 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: [2474–2504, 3192–3253]
Independent spin paramagnet, Landau magnetism: [3051–3057, 3254–3261]
Black-body radiation and photonic systems: [3262–3314]
d = 1 Ising ferromagnet: [3315–3319]
d ≥ 2 Ising and other ferromagnets: [2503, 3320–3362]
Infinite-range Ising ferromagnet: [3363]
Potts ferromagnet, Molecular field approximation: [2502, 3337–3367]
Percolation: [3368–3370]
Electron-phonon systems; tight-binding-like Hamiltonians; nanosystems; theoretical chemistry: [3371–3426]

APPLICATIONS

Self-gravitating systems, Stellar polytropes, Vlasov equation, Galaxies, Galaxy clusters: [2022, 2492, 2547, 3427–3506]
Lévy-like and correlated anomalous diffusion: [17, 2125, 2126, 2179–2213, 3567–3630]
Turbulence; Granular matter; Viscous fingering; Navier-Stokes equation; Boltzmann equation; Mossbauer effect: [2492, 3612–3620, 3622–3629, 3631–3882]
Solar neutrinos; High energy physics: [3883–4364]
Ferrofluid-like materials, Lennard-Jones fluids: [3354, 4365–4386]
Solitons: [4387, 4388]
Plasma (electron velocity distribution, magnetohydrodynamics): [4389–4727, 4729–4803]
Glass, Spin-glass: [4804–4836]
Superfluid helium; Bose-Einstein condensation: [4837–4856]
Test of Boltzmann-Gibbs thermostatistics: [2955, 3284, 3285]
Cosmic rays; Elementary particles: [4333, 4857–5073]
Biological systems: Microemulsions; Liquid crystals: [5074–5173]
Stochastic resonance; Brownian motors: [5174–5211]
Connection with the Theory of perceptions: [17, 18]
Connection with the Theory of finances: [6, 3632, 5195–5383]
Consistent testing; Statistical inference; Theory of probabilities: [528–570, 2018, 5385–5438]
Theory of functions; Geometric approaches: [1197, 1200–1324, 4508, 5439–5658]
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): [2041, 3348, 5659–5976]
Neural and other networks: [5139, 5140, 5977–6082]
Analysis of time series (nonlinear dynamics, epilepsy, earthquakes, economics) and images: [3091–3115, 6083–6617]
Geophysics: [3114, 3115, 6153, 6618–6687]
Medicine: Tomography: [3116–3123, 6083, 6355, 6688–6740]
Symbolic dynamics, linguistics, philology, cognitive sciences, hydrology, ecology: [2603–2645, 5607, 6741–6883]

GENERAL READING

Generalized thermostatistics; Generalized distributions: [476, 6884–7038]
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What can (partition) logic contribute to information theory?

Shannon entropy reinterpreted

Emergence of Tsallis statistics as a consequence of invariance

Quantum treatment of Verlinde’s conjecture in a Tsallis framework

Generalized Shannon’s entropies in position and momentum spaces

Analysis simulation of interaction information in chaotic systems of fractional order

New generalization of von Neumann relative entropy

Information theory and maximum entropy principles in non-equilibrium statistical physics

Relativistic treatment of Verlinde’s emergent force in Tsallis statistics

A mechanism producing power law etc. distributions

A joint representation of Renyi’s and Tsallis’ entropy with application in coding theory

Monogamy of correlations and entropy inequalities in the Bloch picture

Shannon entropy for imprecise and under-defined or over-defined information

Some inequalities in information theory using Tsallis entropy

Results related to exponential entropy

Hidden correlations entailed by additive Tsallis’ scenario

Emergence of Tsallis statistics as a consequence of invariance

Towards an information geometric characterization/classification of complex systems. II. Critical parameter values from the \( (e,d) \)-manifold

Renyi’s and Tsallis’ entropy with application in coding theory

Probability distribution function of complex systems

Quantile based Tsallis entropy in residual lifetime

An analytical representation of the entropy for macroscopic system in thermal non-equilibrium

Monogamy of correlations and entropy inequalities in the Bloch picture

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Results related to exponential entropy

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Some properties of generalized Fisher information in the context of nonextensive thermostatistics.

On some interrelations of generalized q-entropies and a generalized Fisher information, including a Cramer-Rao inequality.

Some results on a χ-divergence, an extended Fisher information and generalized Cramer-Rao inequalities.


Entropies et critères entropiques.


On multidimensional generalized Cramer-Rao inequalities, uncertainty relations and characterizations of generalized q-Gaussian distributions.

Are all highly liquid securities within the same class?

On the connection between ARCH time series and non-extensive statistical mechanics.

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