GENERAL THEORY

Generalized entropy and thermostatistics: [1]
H-theorem and irreversibility: [2966–3025]
Ehrenfest theorem, von Neumann equation: [3, 3026–3032]
Quantum statistics: [3033–3161]
Variational and perturbative methods; Bogolyubov inequality; Green functions; Path integral; Boltzmann equation: [3050, 3162–3261]
Langevin and Fokker-Planck equations: [2970–2992, 2995–3002, 3004–3040, 3238–3241, 3243–3444, 3446–3800]
Fluctuation-dissipation, Nyquist and Onsager reciprocity theorems, Kubo’s linear response theory and Kramers-Kronig relation: [6, 3801–3823]
Poisson equation: [3824–3840]
Callen identity: [3841]
Ising transmissivity: [3842]
Classical equipartition principle: [3843–3845]
Connection with quantum uncertainty: [3846–3900]
Connection with Fisher information measure: [3901–3915]
Connection with ergodicity, nonlinear dynamical systems, self-organized criticality, cellular automata, fractals: [9, 90–98, 3128, 3916–4134, 4136–4415]
Connection with general relativity, cosmology, dark energy, string theory: [3902, 4416–4422, 4424–4606]
Connection with quantum groups and quantum mechanics: [4607–4657]
Connection with wavelets; Signal processing; EEG: [4658–4772]
Connection with quantum correlated many-body problems: [4773–4785]
Connection with the Gentile and the exclusion Haldane statistics: [4786–4789]
Connection with finite systems: [3801, 4786]
Rigorous results (generalized entropy and thermostatistics): [3920–3925, 4790–4795]
Integral transformations (Hilhorst and Prato formulae): [3038, 3801, 4796–4799]

ONE-BODY SYSTEMS

Two-level system: [1, 4800]
Harmonic and anharmonic oscillators: [1541–1560, 4794–4802]
Free particle: [4803–4808]
Larmor precession: [3028]
Rigid rotator: [4798–4804, 4809–4812]

*This regularly updated Bibliography (at http://tsallis.cat.cbpf.br/biblio.htm) contains 9985 articles from 16850 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.

**MANY-BODY SYSTEMS**

Ideal, classical gases, and other toy models: [3801–3843, 4796–4803, 4809–4872]
Independent spin paramagnet, Landau magnetism: [4613–4619, 4873–4880]
Black-body radiation and photonic systems: [4881–4943]
\(d = 1\) Ising ferromagnet: [4944–4948]
\(d \geq 2\) Ising and other ferromagnets: [3842, 4949–4998]
Infinite-range Ising ferromagnet: [4999]
Potts ferromagnet, Molecular field approximation: [3841, 4966–4985, 4990–5003]
Percolation: [5004–5006]
Electron-phonon systems; tight-binding-like Hamiltonians; nanosystems; theoretical chemistry: [5007–5064]

**APPLICATIONS**

Self-gravitating systems, Stellar polytropes, Vlasov equation, Galaxies, Galaxy clusters: [3220, 3824, 3902, 5065–5244]
Lévy-like and correlated anomalous diffusion: [18, 3338, 3339, 3410–3435, 3437–3444, 3446–3461, 5245–5310, 5318–5325]
Turbulence; Granular matter; Viscous fingering; Navier-Stokes equation; Boltzmann equation; Mossbauer effect: [3824, 5290–5319, 5326–5672]
Ferrofluid-like materials, Lennard-Jones and other fluids: [4990, 6371, 6379–6401]
Solitons: [6402, 6403]
Plasma (electron velocity distribution, magnetohydrodynamics): [6404–6961]
Glass, Spin-glass: [6962–7002]
Superfluid helium; Bose-Einstein condensation: [7003–7027]
Test of Boltzmann-Gibbs thermostatistics: [4436, 4908, 4909]
Cosmic rays; Elementary particles: [7026–7282]
Biological systems; Microemulsions; Liquid crystals: [7283–7425]
Stochastic resonance; Brownian motors: [7426–7451, 7454, 7456–7471]
Connection with the Theory of perceptions: [18, 19]
Connection with the Theory of finances: [7443–7688]
Consistent testing; Statistical inference; Theory of probabilities: [976–981, 983–992, 994–1066, 3216, 7690–7782, 7784?]
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): [3239, 4977, 8078–8514, 85167–8521]
Neural and other networks: [986, 7378, 7379, 8522–8654, 8656–8670]
Analysis of time series (nonlinear dynamics, epilepsy, earthquakes, economics) and images: [4658–4686, 8671–9364]
Geophysics: [4685, 4686, 8761, 9365–9465]
Medicine; Tomography: [4687–4694, 8671–8673, 9025, 9466–9565]
Symbolic dynamics, linguistics, philology, cognitive sciences, social sciences, hydrology, ecology: [3972–3982, 3984–4005, 4009–4032, 8013, 9566–9583, 9585–9764]

**GENERAL READING**

Generalized thermostatistics; Generalized distributions: [912, 9765–9985]
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<th>Authors</th>
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<tbody>
<tr>
<td>2023</td>
<td>G. Rotundo</td>
<td>Black-Scholes-Schrödinger-Zipf-Mandelbrot model framework for improving a study of the coauthor core score</td>
<td>Physica A</td>
<td>296-301</td>
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<td>2023</td>
<td>A.V. Miransky, M. Davison, M. Reesor and S.S. Murtaza</td>
<td>Using entropy measures for comparison of software traces</td>
<td>Information Sciences</td>
<td>59-72</td>
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<td>2015</td>
<td>S. Bwanakare, M. Cierpial-Wolan and A. Mantaj</td>
<td>Predicting gross domestic product components through Tsallis entropy econometrics</td>
<td>Proceedings 8th Polish Symposium of Physics in Economy and Social Sciences FENS (Rzeszow, November 4-6, 2015)</td>
<td>971-979</td>
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<td>M.Z. Anis</td>
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M. Proks,
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