NONEXTENSIVE STATISTICAL MECHANICS AND THERMODYNAMICS

BIBLIOGRAPHY (regularly updated):  http://tsallis.cat.cbpf.br/biblio.htm

BOOKS:

*Nonextensive Statistical Mechanics and Thermodynamics*
Eds. S.R.A. Salinas and C. Tsallis, Brazilian Journal of Physics, **29**, Number 1 (1999)
http://www.sbf.if.usp.br/bjp/Vol29/Num1/index.htm

*Nonextensive Statistical Mechanics and Its Applications*
http://link.springer.de/link/service/series/2669/tocs/t1560.htm

*Classical and Quantum Complexity and Nonextensive Thermodynamics*
http://www.elsevier.nl/inca/publications/store/9/6/7/

*Non Extensive Thermodynamics and Physical Applications*
http://www.elsevier.nl/inca/publications/store/5/0/5/7/0/2/

*Nonadditive Entropy and Nonextensive Statistical Mechanics*

*Nonextensive Entropy - Interdisciplinary Applications*
http://www.us.oup.com/us/catalog/general/subject/Physics/?ci=0195159772&view=usa

*Anomalous Distributions, Nonlinear Dynamics, and Nonextensivity*
http://www.elsevier.com/wps/find/homepage.cws_home

*News and Expectations in Thermostatistics*
http://www.elsevier.com/wps/find/homepage.cws_home

*Trends and Perspectives on Extensive and Non-Extensive Statistical Mechanics*
http://www.elsevier.com/wps/find/homepage.cws_home

*Complexity, Metastability and Nonextensivity*
http://www.worldscibooks.com/physics/5961.html

*Nonextensive Statistical Mechanics: New Trends, New Perspectives*
http://www.europhysicsnews.com/

*News, Expectations and Trends in Statistical Physics*
http://www.elsevier.com/wps/find/homepage.cws_home
Eds. S. Abe, M. Sakagami and N. Suzuki, Progress of Theoretical Physics Supplement 162 (Physical Society of Japan, Tokyo, 2006)
http://ptp.ipap.jp/journal/PTPS-162.html

Complexity, Metastability and Nonextensivity

Statistical Power Law Tails in High-Energy Phenomena
http://www.springerlink.com/content/p3p0p0466785/?p=7381936c95f0448c80db083addb1c782&pi=0

Nonextensive Statistical Mechanics – Foundations and Applications
http://www.sb fisica.org.br/bjp/

Introduction to Nonextensive Statistical Mechanics – Approaching a Complex World
C. Tsallis (Springer, New York, 2009)

Fundamental Mathematics for Complex Systems – Mathematics for Power Laws and Tsallis Entropy
H. Suyari (Makino Publisher, 2010, in Japanese)

Generalised Thermostatistics

Tsallis Entropy
A. Anastasiadis, ed., Special Issue of the MDPI Journal Entropy (2011)
http://www.mdpi.com/journal/entropy/special_issues/Tsallis_Entropy

Statistical Mechanics in Earth Physics and Natural Hazards
P. Vallianatos and L. Telesca, eds., Special Issue of Acta Geophysica 60 (3) (2012)

Concepts and Recent Advances in Generalized Information Measures and Statistics
A.M. Kowalski, R.D. Rossignoli and E.M.F. Curado, eds. (Bentham Science Publishers, 2013)

MEETINGS:
(The following list only includes meetings whose program content has been integrally, or at least substantially, focused on nonextensive statistical mechanical concepts)

IMS Winter School on Statistical Mechanics: Nonextensive Generalization of Boltzmann-Gibbs Statistical Mechanics and Its Applications
Okazaki - Japan, 15-18 February 1999; Co-chaired by Y. Okamoto and S. Abe

International Workshop on Classical and Quantum Complexity and Nonextensive Thermodynamics
Denton, Texas – USA, 3-6 April 2000; Co-chaired by P. Grigolini, C. Tsallis and B.J. West
http://www.phys.unt.edu/Complexity/announcement.html
NEXT2001: International School and Workshop on Non Extensive Thermodynamics and Physical Applications
Cagliari – Italy, 23-30 May 2001; Chaired by M. Lissia
http://www.ca.infn.it/~lissia/next2001.html

Interdisciplinary Applications of Ideas from Nonextensive Statistical Mechanics and Thermodynamics
Santa Fe Institute, New Mexico - USA, 8-12 April 2002; Co-chaired by M. Gell-Mann and C. Tsallis
http://discuss.santafe.edu/nonextensive2001

NEXT2002: Anomalous Distributions, Nonlinear Dynamics, and Nonextensivity
Santa Fe, New Mexico - USA, 6-9 Nov 2002; Co-chaired by A.R. Bishop, H.L. Swinney, C. Tsallis, V.M. Kenkre, R.E. Ecke, E. Ben-Naim and Z. Toroczkai
http://cnls.lanl.gov/Conferences/AnomalDist/NEXT02.htm

Quantum Entanglement, Complexity and the Physical Basis for Quantum Computation
Rio de Janeiro - Brazil, 2-6 December 2002; Co-chaired by C. Tsallis and I.S. Oliveira
http://www.cbpf.br/q-entanglement/

NEXT2003: 2nd Sardinia International Conference on News and Expectations in Thermostatistics
Cagliari - Italy, 22-28 September 2003; Co-chaired by E.G.D. Cohen, P. Quarati and C. Tsallis
http://www.ca.infn.it/~lissia/next2003.html

Trends and Perspectives on Extensive and Non-Extensive Statistical Mechanics
Angra dos Reis - Brazil, 19-21 November 2003; Co-chaired by E.M.F. Curado, H.J. Herrmann and M. Barbosa
http://www.cbpf.br/~trends/

NEXT2004: International Workshop on Complexity, Metastability and Nonextensivity
Erice - Italy, 20-26 July 2004; Co-chaired by C. Tsallis, A. Rapisarda and C. Beck
http://www.et.infn.it/~rapis/ERICE-COMPLEX04/

Kyoto - Japan, 14-18 March 2005; Co-chaired by S. Abe and M. Sakagami
http://ganesha.phys.h.kyoto-u.ac.jp/CN-Kyoto/index.html

Kolymbari – Crete – Greece, 13-18 August 2005; Chaired by G. Kaniadakis
http://www2.polito.it/eventi/next-sigmaphi/html/next.html

Statistical Mechanics of Non-Extensive Systems
http://aramis.obspm.fr/NBS05/index.php

Introducción a la Mecánica Estadística No Extensiva - Aplicaciones a los Sistemas Complejos
Madrid – Spain, 6-9 February 2006; Chaired by G. Ruiz-Lopez
http://matap.dmae.upm.es/Tsallis/CursoTsallis.htm

London Mathematical Society Durham Symposium on Dynamical Systems and Statistical Mechanics
Durham - England, 3-13 July 2006; Co-chaired by C. Beck, C. Dettmann and M. Pollicott
http://www.maths.dur.ac.uk/lms/2006/DSSM/outline.html

International Summer School and Workshop on Complex Systems and Nonextensive Statistical Mechanics
Trieste / ICTP – Italy, 30 July - 8 August 2006; Co-chaired by C. Tsallis and U. Tirnakli
Mecanica Estatistica Nao Extensiva – Aspectos Teoricos, Experimentais, Observacionais e Computacionais
Rio de Janeiro - Brazil, 2-6 April 2007; Chaired by C. Tsallis
http://tsallis.cat.cbpf.br/NextCurso2007/

Mecanica Estadistica y Termodinamica No Extensivas
Buenos Aires - Argentina, 23-27 April 2007; Chaired by H. Corti
http://divisionnolineal.blogspot.com/2007/03/curso-de-mecnica-estadstica-y.html

NEXT2007: International Workshop on Complexity, Metastability and Nonextensivity
Catania – Italy, 1-5 July 2007; Chaired by A. Rapisarda
http://www.ct.infn.it/ctnext07/

Nonextensive Statistical Mechanics
Marmaris - Turquia, 15-20 July 2007; Co-chaired by T. Hakioglu and U. Tirkakli

Symposium on Nonextensive Statistical Mechanics
International Conference in Statistical Physics
Kolymbari – Crete - Greece, 14-18 July 2008; Co-chaired by S. Abe and C. Tsallis
http://www2.polito.it/eventi/sigmaphi2008/

NEXT2008: International Conference on Nonextensive Statistical Mechanics – Foundations and Applications
Iguassu – Brazil, 27-31 October 2008; Chaired by R.S. Mendes
http://www.dfi.uem.br/next2008/

Curso Internacional de Mecánica Estadística No Extensiva
http://fc.uni.edu.pe/gff/cursos/

Mathematical Aspects of Generalized Entropies and their Applications
Kyoto - Japan, 7-9 July 2009; Co-chaired by H. Suyari, A. Ohara and T. Wada

Nonextensive Statistical Mechanics – Concepts and Applications
Pala - Kerala - India; 6-8 January 2011; Chaired by A. M. Mathai
http://www.cmsintl.org/

Workshop on Nonextensive Statistical Mechanics and Integrable Spin Chains
Madrid - Spain; 17 March 2011; Chaired by P. Tempesta et al

Introducción a Mecánica Estadística No Extensiva
Granada - Spain, 9-13 January 2012; Chaired by J. Sanchez Dehesa

NEXT2012: Anomalous Statistics, Generalized Entropies, and Information Geometry
Nara - Japan, 6-10 March 2012; Co-chaired by H. Suyari, T. Wada, A. Ohara, S. Furuichi and Y. Sato
http://sites.google.com/site/next2012nara/
International Workshop on Tsallis Entropy and its Applications
Wuhan - China, 16-19 October 2012; Chaired by Wei Li
http://blog.sciencenet.cn/blog-4673-624051.html

Heavy Ion Forum on the Tsallis Function and its Applications
CERN, ALICE/LHC Collaboration, Geneva, Switzerland, 1 February 2013
http://indico.cern.ch/conferenceDisplay.py?confId=232225

Complex Systems - Foundations and Applications
Rio de Janeiro - Brazil, 28 October to 1 November 2013
http://www.cbpf.br/~compsyst/

Heavy Ion Forum on Tsallis Function
CERN, ALICE/LHC Collaboration, Geneva, Switzerland, 13 January 2014
http://indico.cern.ch/conferenceDisplay.py?confId=285968

LIGHT READING:

Article by Rex Graham for the Santa Fe Institute Bulletin (Fall 2000)
http://www.santafe.edu/sfi/publications/Bulletins/bulletinFall00/features/tsallis.html

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