ENTROPY AND STATISTICAL MECHANICS: FOUNDATIONS

	BG (thermal equilibrium)	q ≠ 1 (thermal metaequilibrium, nonequilibrium)
Distribution of velocities at equilibrium	Maxwell 1860	R. Silva, A.R. Plastino, J.A.S. Lima Phys Lett A 249, 401 (1998) R.S. Mendes and C. Tsallis Phys Lett A 285, 273 (2001)
Kinetic equation Molecular chaos hypothesis (*Stosszahlansatz*)	Boltzmann 1872	J.A.S. Lima, R. Silva, A.R. Plastino Phys Rev Lett 86, 2938 (2001) G. Kaniadakis Physica A 296, 405 (2001)
Optimization of entropy with constraints	Gibbs 1902	C.Tsallis J Stat Phys 52, 479 (1988) E.M.F. Curado and C.Tsallis J Phys A 24, L69 (1991) C.Tsallis, R.S. Mendes, A.R. Plastino Physica A 261, 534 (1998)
Steepest descent	Darwin-Fowler 1922	S. Abe and A.K. Rajagopal J Phys A 33, 8733 (2000)
Microcanonical ensemble counting	Balian-Balazs 1987 Kubo et al 1988	S. Abe and A.K. Rajagopal Phys Lett A 272, 341 (2000) Europhys Lett 55, 6 (2001)
Conditions of uniqueness of S	Shannon 1948	R. J. V. Santos J Math Phys 38, 4104 (1997)
Compact conditions of uniqueness of S	Khinchin 1953	S. Abe Phys Lett A 271, 74 (2000)
Limit theorems	De Moivre 1733 Laplace 1744 Gauss 1809 Lévy 1937 Khinchin 1949	S. Umarov, C. Tsallis and S. Steinberg Milan J Math 76, 307 (2008) S. Umarov, C. Tsallis, M. Gell-Mann and S. Steinberg J Math Phys 51, 033502 (2010) S. Abe and A.K. Rajagopal Europhys Lett 52, 610 (2000)