



Iranian Journal of Physics Research, Vol. 9, No. 4, 2010

Research note

Time dependent solutions of the nonlinear Fokker- Planck equations related to arbitrary functions of Tsallis entropy

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(Received 18 March 2008 ; in final form 1 September 2009)

Abstract

The nonlinear Fokker-Plank equations can be related to generalized entropies. We investigate the stationary solutions of Fokker- Plank equations which are related to entropies defined as arbitrary functions of Tsallis entropy. Also the transient solutions of the equations are determined for linear drifts.

Keywords: nonlinear Fokker-planck equations, generalized entropies, nonextensive statistical mechanics

For the full article refer to the Persian section