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

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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

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