A Vlasov Equation Interpolating Between Boltzmann and q-Statistics Through an H-Theorem

A.R. Plastino, E.M.C. Curado, F. Nobre and C.Tsalllis

We investigate a system of confined, interacting particles with drag and noise, obeying a nonlinear Vlasov equation related to the S_q thermostatistics. This equation satisfies an H-theorem involving a linear combination of Boltzmann and Tsallis entropies.