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Session: Collectivity in High Energy Collisions : Jets, Flow and other aspects
Title : Examining nonextensive statistics in relativistic heavy-ion collisions

Abstract:

We show in detailed numerical solutions of the nonlinear Fokker-Planck equation (FPE) which has been associated with non-extensive $q$-statistics that the available data on rapidity distributions for stopping in relativistic heavy-ion collisions cannot be reproduced with any permitted value of the non-extensivity parameter ($1 < q < 1.5$). This casts doubt on the non-extensivity concept that is widely used in relativistic heavy-ion physics.