

Title: Applications of the Tsallis Non Extensive Statistics in High Energy Collisions

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Tsallis non extensive statistics is nowadays being widely used to explain the transverse momentum spectrum of the particles created due to high energy collisions. We investigate different applicaions of the Tsallis Statistics like the analytical calculations of the Tsallis thermodynamic variables, transport of heavy quarks inside Quark Gluon Plasma carrying out non-linear random walk, multiparticle production etc. In a nutshell, we will motivate the ubiquitous presence of non extensivity in the field of high energy collisions and will investigate different properties of the medium thus created.

Biography

Trambak Bhattacharyya has completed his PhD at the age of 29 years from Variable Energy Cyclotron Centre, Kolkata, India (a constitutent instaution of Homi Bhabha National Institute) and postdoctoral studies from IIT Indore. Currently he is a post doctoral fellow at the University of Cape Town.

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