

Applicability of non-extensive statistics on strange particles

The transverse momentum distribution of strange particles produced in heavy-ion collisions are analyzed within the thermodynamically consistent formulation of non-extensive statistics. A wide range of center-of-mass energies, multiplicity and centrality classes are studied for various species. The validity of the non-extensive description is explored in multiple ways: such as the calculation of integrated yields per unit rapidity, particle ratios etc.

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