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What can learn from non-extensive parameters in pp & pA collisions?

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Identified hadron spectra from recent years are analyzed in the non-extensive thermodynamical framework. The Tsallis cut power-law is known to describe the p T distributions for a wide energy range, but its origin is still unknown. We pursue the physical origin of this observation by investigating the center-of-mass energy, multiplicity, mass and strangeness dependency of the Tsallis q and T parameters comprehensively from ee, pp to pA collisions. We describe the main characteristics of a statistical hadronization model that could explain our observations.

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