

A convoluted Generalized Multiplicity Distribution and associated phenomenologically analogous Lee-Yang phase transitions

Monday, 5 October 2015 19:25 (5 minutes)

A new distribution is obtained from a convolution of the Generalized Multiplicity Distribution (GMD) with the Negative Binomial Distribution (NBD). This distribution models the charged particle production from hard and soft processes, with comparisons made with other multiplicity distribution models. A phenomenologically analogous Lee-Yang phase transition is examined using the new model.

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Session Classification: Poster session

Track Classification: Multiparticle Correlations and Fluctuations