

Strangeness in Quark Matter 2019



Contribution ID: 205

Type: **Poster**

Multiplicity dependence in the non-extensive hadronization model calculated by the HIJING++ framework

Tuesday 11 June 2019 18:45 (2 hours)

The non-extensive statistical description of the identified final state particles measured in high energy collisions is well-known by its wide range of applicability. However, there are many open questions that need to be answered, including but not limited to the question of the observed mass scaling of massive hadrons or the size and multiplicity dependence of the model parameters. This latter is especially relevant, since currently the amount of the available experimental data with high multiplicity at small systems is very limited.

In this contribution the role of the size of the colliding system and multiplicity dependence of the parameters in the non-extensive hadronization model is investigated with HIJING++ calculations. We present cross-check comparisons of HIJING++ with existing experimental data to verify its validity in our range-of-interest, as well as calculations at high-multiplicity regions where we have insufficient experimental data.

Collaboration name

Track

Hadronisation and coalescence

Author: BÍRÓ, Gábor

Co-authors: BARNAFOLDI, Gergely Gabor (Wigner RCP Hungarian Academy of Sciences (HU)); BIRO, Tamas Sandor (MTA Wigner RCP)

Presenter: BÍRÓ, Gábor

Session Classification: Poster session with "aperitivo"