

Strangeness in Quark Matter 2019



Contribution ID: 114

Type: **Contributed talk**

Higher moments of net-particle fluctuations in Pb-Pb collisions from ALICE

Tuesday 11 June 2019 16:50 (20 minutes)

The fluctuations of conserved charges –such as electric charge, strangeness, and baryon number –in ultrarelativistic heavy-ion collisions provide insight into the properties of the quark-gluon plasma and the QCD phase diagram. They can be related to the higher moments of the multiplicity distributions of identified particles such as pions, kaons, protons, and lambda baryons. In this talk, we will show the latest results from the ALICE Collaboration on the higher moments of identified particles measured in Pb–Pb collisions, differentially with respect to collision energy, centrality, and the pseudorapidity acceptance of the measurement. These results will be compared to models to gain insight into the origin of dynamical fluctuations in heavy-ion collisions.

Collaboration name

ALICE Collaboration

Track

QCD phase diagram and critical point

Primary author: ARSLANDOK, Mesut (Ruprecht Karls Universitaet Heidelberg (DE))

Presenter: ARSLANDOK, Mesut (Ruprecht Karls Universitaet Heidelberg (DE))

Session Classification: QCD Phase Diagram and Critical Point