



Contribution ID: 271

Type: Oral

Bulk flow and correlation measurements at LHCb

Tuesday, September 5, 2023 1:00 PM (20 minutes)

Particle correlations are a powerful tool to study the properties of the bulk nuclear matter produced in relativistic heavy ion collisions. The momentum correlations between identical particles originating from the same particle-emitting source, referred to as the Bose-Einstein correlations, measure scales that are related to the geometrical size of the source. The two-particle azimuthal angular correlations measure the spatial anisotropy of produced particles, providing information on collective phenomena arising in the dense nuclear medium. This contribution will discuss new LHCb measurements of Bose-Einstein correlations and, for the first time, the collective flow coefficients in the far forward rapidity region

Category

Experiment

Collaboration (if applicable)

LHCb

Author: WONG, Cheuk Ping (Brookhaven National Laboratory)

Presenter: WONG, Cheuk Ping (Brookhaven National Laboratory)

Session Classification: Light Flavor

Track Classification: Light and strange flavor