

# DIS2023: XXX International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 119

Type: **Parallel talk**

## Modified hadronization in small systems at LHCb

*Thursday, 30 March 2023 11:30 (20 minutes)*

Investigating particle production in various collision systems has become instrumental in probing non-perturbative contributions to hadron structure and hadronization. The LHCb spectrometer's unique geometry among the LHC detectors along with its particle identification and tracking capabilities allow for new studies in hadron production to identify how said contributions manifest in hadronic collisions. In this talk, we will discuss recent and upcoming measurements from the LHCb collaboration regarding charged particle production and hadronization as well as how they are modified based on collision system, location in phase space, and event activity. We will also briefly describe the current landscape of models which account for non-perturbative modifications in structure or hadronization and how these results help to identify which mechanisms are contributing in hadron collisions; particularly small systems.

### Submitted on behalf of a Collaboration?

Yes

### Participate in poster competition?

**Primary author:** SHANGASE, Desmond Mzamo (University of Michigan (US))

**Presenter:** SHANGASE, Desmond Mzamo (University of Michigan (US))

**Session Classification:** WG4

**Track Classification:** WG4: QCD with Heavy Flavours and Hadronic Final States