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Modification of b quark hadronization in high-multiplicity pp collisions at LHCb

Dienstag, 28. März 2023 18:15 (2 Stunden)

The differences in hadron chemistry observed at e^+e^- machines versus hadron colliders may indicate that the mechanisms by which partons evolve into visible matter are not universal. In particular, the influence of the underlying event in hadron collisions requires further study. With full particle ID, precision vertexing, and a high rate DAQ, the LHCb detector is uniquely well suited to study the hadronization of heavy b quarks. This talk will present LHCb data on hadronization of heavy bottom quarks, and discuss the status of a new LHCb analysis of bottom baryon production versus charged particle multiplicity.

Experiment/Theory

LHCb

Affiliation

On behalf of LHCb

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