

## Open-charm production in small systems at LHCb

*Saturday, 26 April 2025 11:55 (20 minutes)*

The forward geometry and precision instrumentation of the LHCb spectrometer provides unique insights into the production of heavy quarks at the LHC. Heavy quark production in pPb collisions are sensitive to the modification of nuclear parton distribution functions, energy loss in the nucleus, and the hadronization process, among other effects. In this talk, precision measurements of open charm production from a rich set of charmed hadrons in pPb and pp collisions will be presented, including new LHCb measurements of D mesons and  $\Xi_c^+$  baryons in pp and pPb collisions. Comparisons with theoretical models and related results will be discussed.

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**Session Classification:** 分会场二