

## Open charm hadron production and spectroscopy at LHCb

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Measurements for open charm hadron production and spectroscopy at LHCb, and future prospects are presented. The LHCb detector is designed for the observation of heavy flavour decays with a fully instrumented forward coverage that is unique among the LHC experiments. These features, with the prolific charm production in  $\sqrt{s}=7$  TeV proton-proton collisions, make LHCb ideally suited to perform precise measurements of charm production and spectroscopy that test QCD in this new energy regime.

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