

# Measurement of single W and Z boson properties in the Forward Region

Thursday 18 July 2024 09:30 (15 minutes)

The LHCb experiment covers the forward region of proton-proton collisions, and it can improve the current electroweak landscape by studying the production of electroweak bosons in this phase space complementary to ATLAS and CMS. The precision measurements of the properties of single W and Z boson at LHCb could not only provide stringent test of the Standard Model, but also are essential inputs for the PDF global fitting. In this talk the most latest results on the single W and Z boson property measurements, using the LHCb Run-2 data-sets, will be presented, which will includes the single Z boson production measurement at 5.02 TeV, the weak mixing angle measurement, and the W/Z rare decay searches.

## Alternate track

### I read the instructions above

Yes

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