



Contribution ID: 1243

Type: **Parallel Talk**

W mass measurement at LHCb

Thursday, 7 July 2022 17:15 (15 minutes)

A significant displacement both from the electroweak fit predictions and previous experimental results has been observed in the recent measurement of the W boson mass at CDF. This confirms the importance of measuring this fundamental parameter of the Standard Model. The LHCb experiment has a fundamental role in this topic: it has recently measured the W boson mass by using a part of its available dataset, and plans to perform a more precise measurement with the full Run 2 dataset in the near future.

Moreover, since this measurement is performed in a complementary phase space with respect to ATLAS and CMS, it will help in reducing the total uncertainty in a future LHC combination. In this talk the experimental aspects of the LHCb measurement are presented.

In-person participation

Yes

Primary author: RAMOS PERNAS, Miguel**Presenter:** RAMOS PERNAS, Miguel**Session Classification:** Top quark and EW Physics**Track Classification:** Top quark and EW Physics