

## 38th INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS

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## LHCb results on Z FB asymmetry and top cross section (13' + 2')

Friday 5 August 2016 12:20 (15 minutes)

By using proton-proton collision data of the LHC Run I, LHCb measured the forward-backward charge asymmetry for the process \bar q q —>  $Z/\gamma^*$  —> mu+mu-. We will present these results, which, within the Standard Model, provide the best constrain of the effective electroweak mixing angle at hadron colliders. Additionally, the measurement of the top production cross section, also performed with LHCb Run I data, will be presented.

**Presenter:** CID VIDAL, Xabier (Universidade de Santiago de Compostela) **Session Classification:** Top Quark and Electroweak Physics

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