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## **Measurement of Z-boson forward-backward asymmetry in the muon channel with the ATLAS experiment at the LHC**

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The V-A nature of the electroweak current leads to an asymmetry in the lepton polar angle distribution in the rest frame of  $Z/\gamma^*$  boson: the measurement of such a quantity, around the Z pole, can provide a precise determination of the weak mixing angle of the Standard Model. In this contribution, the asymmetry measurement in the muon channel will be presented with data collected with the ATLAS experiment during 2011.

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