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Z boson forward-backward asymmetry measured with the ATLAS detector

We present a measurement of the Z boson forward-backward asymmetry of the process $pp \rightarrow \gamma^*/Z + X \rightarrow l+l + X$ in collisions at sqrt(s) = 7 TeV, where l= e or muon. The asymmetry is measured in the Collins-Soper frame using the angle θ between the incoming quark and outgoing lepton. The measurement uses recent data from the ATLAS experiment. At high dilepton invariant mass, the measurement is sensitive to sevaral scenarios of physics beyond the Standard Model.

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