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Measurements of the 7 and 8 TeV cross sections for $Z \rightarrow 4l$ in pp collisions with the ATLAS detector

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A measurement of the cross section for 4 lepton production near the Z resonance is presented for $\sqrt{s} = 7$ and 8 TeV proton-proton collisions recorded with the ATLAS experiment. The measurement is interpreted as a determination of the branching fraction for the Z boson decaying into 4 leptons and is found consistent with the expectation from the Standard Model. This result provides an important benchmark for the $H \rightarrow 4l$ process.

Summary

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