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## **QCD analysis of the ATLAS and CMS $W$ and $Z$ cross-section measurements and implications for the strange sea density**

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In the present paper, the ATLAS inclusive  $W^\pm$  and  $Z$  boson production data are analysed together with the CMS inclusive  $W^\pm$  and  $Z$  boson production data to investigate any possible tensions between the data sets and to determine the strange sea fraction, within the framework of a parton distribution function fit at next-to next-to leading order in perturbative QCD.

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