

# **ATLAS-Highlight-1: Precise test of lepton flavour universality in W-boson decays into muons and electrons in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector**

*Thursday 25 April 2024 12:00 (20 minutes)*

Reference: <https://arxiv.org/abs/2403.02133>

The ratio of branching ratios of the W boson to muons and electrons,  $R_{\mu/eW} = B(W \rightarrow \mu\nu)/B(W \rightarrow e\nu)$ , has been measured using 140 fb<sup>-1</sup> of pp collision data at  $\sqrt{s}=13$  TeV collected with the ATLAS detector at the LHC, probing the universality of lepton couplings.

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**Session Classification:** LHC top WG Open Meeting