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Searching for high-mass dilepton resonances in the full Run-2 ATLAS dataset

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Summary

Having enabled discoveries of Standard Model resonances in previous decades, the dilepton invariant mass spectrum remains a vital experimental probe of today's high energy frontier. Multiple benchmark scenarios beyond the Standard Model anticipate new high-mass neutral mediators whose clean signatures in the dilepton final state have been a prime target for searches at the Large Hadron Collider. My poster describes the procedure, findings, and implications of the latest search for such signatures leveraging the full Run-2 dataset recorded by the ATLAS detector.

Presenter: DREYER, Etienne (Simon Fraser University (CA))

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