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Misura del processo Drell-Yan ad alta massa nel canale con decadimento semileptonico del tau e ricerca di leptoquark a $\sqrt{s}=13$ TeV con l'esperimento ATLAS

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An analysis of the LHC Run 2 pp collision dataset with at least two charged leptons, one of which is a τ -lepton, with the ATLAS detector is presented. This analysis focuses on the region in which the visible invariant mass of the two leptons ranges from the Z boson resonance to high-mass. Two primary results are reported: a search for new heavy particles coupling to τ -leptons and τ -quarks and a measurement of the unfolded differential Drell-Yan cross section in the high-mass range. Moreover, projections on an additional measurement of the forward-backward asymmetry in the mass range around the Z resonance will be presented.

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