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Z-> tau tau production at CMS

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The first measurement of the Z \rightarrow tautau cross-section in the mu-taujet, e-taujet, e-mu and mu-mu final states is presented. The data collected in 2010 with the CMS detector from proton-proton collisions at $\sqrt{s} = 7$ TeV are used, corresponding to an integrated luminosity of about 36 pb⁻¹. The cross section has been measured to be in good agreement with the next-to-next-to-leading order QCD prediction. The production of Z bosons decaying into tau pairs serves as an important benchmark for tau reconstruction and constitutes a reference Standard Model process for searches at the LHC, like the MSSM H \rightarrow tautau.

Presenter: CALABRIA, Cesare (BA)

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