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Z-> tau tau production at CMS

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The first measurement of the $Z \rightarrow \tau\tau$ cross-section in the $\mu\tau$ jet, $e\tau$ jet, $e\mu$ 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 $H \rightarrow \tau\tau$.

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