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Search for Heavy Resonances Decaying to diTau Pairs in pp Collisions at $\sqrt{s} = 13$ TeV

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A search for new physics in events with two high- p_T taus is performed using 2.2 fb^{-1} of data collected by the CMS experiment during 2015 at $\sqrt{s}=13\text{TeV}$. The search is centered around the heavy neutral gauge boson known as the Z' , though additional models are also considered. Observations are consistent with the Standard Model expectations. The diTau mass spectrum is examined, and limits are set at 95% confidence level on the production cross section times branching fraction of a Z' resonance decaying to tau pairs.

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