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Higgs and Z to tau tau in CMS

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The production of pairs of oppositely-charged tau leptons at 7 TeV center-of-mass energy is studied with 36/pb of proton-proton collision data collected by the CMS experiment in 2010. Events are selected in a combination of different final states resulting from hadronic and leptonic tau decays. The Z to tau tau cross section is measured. The tau pair kinematics is fully reconstructed using a likelihood technique. The mass spectrum observed in data is used to derive upper bounds on the production cross section times branching ratio to tau pairs as a function of the Higgs boson mass in the Minimal Supersymmetric extension of the Standard Model (MSSM).

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