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Search for neutral MSSM Higgs bosons with CMS

Results on the search for neutral Higgs bosons, in the context of the Minimal Supersymmetric extension of the Standard Model (MSSM), are presented. Different decay channels and final states are considered, including the production of the bosons in association with additional spectator b-quarks and their decay into tau, muon and b-quark pairs. The exclusion limits are presented in the MSSM m_A vs $\tan \beta$ parameter space. The searches are performed on data samples collected with the Compact Muon Solenoid (CMS) detector at the Large Hadron Collider (LHC) during the 2011 and 2012 data taking period, in proton-proton collisions at the centre-of-mass energy of 7 TeV and 8 TeV respectively.

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