

Search for $H \rightarrow \gamma^* \gamma$ and $H \rightarrow J\psi/\gamma$ decays at CMS

A search for a Higgs boson decaying into two photons, one of which has an internal conversion to a muon or an electron pair will be described. Events are required have an opposite-sign muon or electron pair and a high transverse momentum photon. Additionally, upper limits on the branching fraction of a Higgs boson decays to a $J\psi$ and a photon will be reported.

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