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Searches for supersymmetry in final states with photons at CMS

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Final states with isolated photons are expected in models of gauge mediated breaking of supersymmetry, but they can also occur as a result of decays of Higgs bosons produced in the decay chains of supersymmetric particles. Results of searches for strong and electroweak production of supersymmetry in events with one or two isolated photons are presented, based on pp collisions recorded with the CMS experiment at $\sqrt{s} = 13$ TeV. In the case of strong production, the most stringent mass limits obtained by these searches reach 2 TeV.

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