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Mono- and di-photon searches for new physics at the LHC

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The ATLAS and Compact Muon Solenoid (CMS) Experiments are general-purpose particle detector experiments at the Large Hadron Collider (LHC) at CERN. ATLAS and CMS have successfully collected a large dataset consisting of approximately 20/fb (5/fb), of proton-proton collisions at a center-of-mass energy of 8 TeV (7 TeV). In addition to clarifying the origins of electroweak symmetry breaking, one of the major goals of these experiments is to discover new physics beyond the Standard Model. This presentation will highlight results from new physics searches with a single photon or two photons in the final state, ranging from searches for dark matter and supersymmetry to extra dimensions.

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