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Search for new particles decaying into ZGamma final states in proton-proton collisions at $\sqrt{s} = 13$ TeV

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A search for a heavy resonance decaying to Zgamma, with the Z boson further decaying to jets or leptons, is presented. The final state with jets is studied in the boosted regime, where the two jets from the Z are merged in one. The search strategy is to look for an excess above the non-resonant Standard Model background on the J+gamma or llgamma invariant mass spectrum. The search is based on the data collected with the CMS detector during Large Hadron Collider (LHC) 13 TeV run.

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