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## Search for high-mass $Z\gamma$ and $W^\pm\gamma$ resonances using $36\text{ fb}^{-1}$ of data from $pp$ collisions at $\sqrt{s} = 13\text{ TeV}$ with the ATLAS experiment

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Results are presented from searches for massive boson resonances with decay modes  $X \rightarrow Z\gamma$  and  $X^\pm \rightarrow W^\pm\gamma$  using 13 TeV proton-proton collision data collected by the ATLAS detector at the LHC in 2015 and 2016. For the  $Z\gamma$  channel, a high  $E_T$  lepton trigger selects events where the Z boson is detected from decays to  $e^+e^-$  and  $\mu^+\mu^-$ . These data are used to search for resonances with mass between 250 GeV and 2.4 TeV. The search is extended to higher X mass in the  $X \rightarrow Z\gamma$  and  $X^\pm \rightarrow W^\pm\gamma$  channels using hadronic decays of the W/Z bosons. The events are selected using a high  $E_T$  photon trigger with a boosted Z/W boson reconstructed from merged di-jet clusters in a large radius jet. The data are used to search for resonances  $X \rightarrow Z\gamma$  with spins 0 and 2 and  $X^\pm \rightarrow W^\pm\gamma$  with spin 1.

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