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Performance of the CMS Level-1 Electron Photon trigger

The CMS high-resolution electromagnetic calorimeter (ECAL) comprises 75848 lead tungstate (PbWO4) crystals and is optimized for the discovery of the SM Higgs boson in its twophoton decay mode. With the unprecedented collision rate at the Large Hadron Collider (LHC), the electron/photon (EG) Trigger plays a major role in selecting the collisions most likely to yield something new and interesting. Since start of physics in March 2010 the LHC instantaneous luminosity has increased by six orders of magnitude to more than 10e33 cm-2 s-1 today, presenting a major challenge for the stability of the trigger system. This poster presents the performance of the EG trigger based on data recorded by the CMS detector in 2011.

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