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Photon fusion production mechanism of magentic monopoles: a study with MadGraph

Thursday 12 July 2018 15:00 (30 minutes)

The Dirac magnetic monopoles , if exist, can be probed in the collider experiments. Earlier only the Drell-Yan production mechanism of magnetic monopoles was used to look for these particles. But the photon-fusion production mechanism of magnetic monopoles is the dominant production mechanism in terms of cross-section at the LHC energy. We will discuss the photon-fusion production of spins 0, ½ and 1 monopoles using MadGraph event generator. We will also show the kinematic distributions of magnetic monopoles having those three spins.

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