SUSY discovery potential using dileptons at $\sqrt{s} = 7$ TeV

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Abstract

The SUSY discovery potential of CMS detector at the LHC is evaluated in different regions of the mSUGRA parameter space. The sensitivities studies are performed for inclusive searches involving same and oppositive sign dileptons. These searches for new physics is characterized by large $\not\!\!E_T$ and significant hadronic activity. The study shows significant sensitivity in several regions in the parameters space with 100 pb^{-1} and 1 fb^{-1} of integrated luminosity.

References

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