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Tau-lepton Charge asymmetry at the LHC: A probe to new physics models

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Lepton charge asymmetry, LHC analog of the forward-backward asymmetry of the Tevatron, can be an useful tool to probe new physics that “hides-out” from the dilepton invariant mass distribution due to large SM background in the tail region. To demonstrate how sensitive it can be to the new physics models, we will consider example of models which may or “may not” leave their imprints in the dilepton invariant mass distribution.

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