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Implementing BSM radiations to angular-ordered parton shower process in Herwig and searching for the signal in the CMS detector

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After the discovery of the Higgs boson at 2012, there is no direct evidence for new physics. It is thus a good time to explore a new phase space. We perform a search for new physics inside a jet using non-isolated leptons related with the muon $g-2$ and LHCb's lepton universality violation results. There is no proper shower generator to generate the signal sample for this search, we implement BSM parton showers in Herwig 7. This presentation informs a preliminary result of a non-isolated dimuon production using the CMS dataset and BSM parton radiations.

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