

Searching for hidden sectors in multiparticle production at the LHC

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Most signatures of new physics beyond the Standard Model have been studied on the transverse plane with respect to the beam direction. In this work we rather consider the effect of a hidden sector (i.e. Hidden Valley model) on rapidity correlations, moments and cumulants of multiplicity distributions in multiparticle production with an special emphasis in the prospects for the forthcoming LHC results.

Primary author: Prof. SANCHIS-LOZANO, Miguel-Angel (IFIC, University of Valencia)

Co-authors: Dr SALVADOR, Moreno-Picot (ETSE, University of Valencia); Prof. EDWARD, Sarkisyan-Grinbaum (The University of Texas at Arlington)

Presenter: Prof. SANCHIS-LOZANO, Miguel-Angel (IFIC, University of Valencia)

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