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Meson production by photon-photon interactions in fixed target collisions at the LHC

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The production cross sections and the number of events per year of mesons are estimated by considering photon-photon interactions in fixed-target collisions at the LHC energies of CERN. We consider several mesons with photon-photon partial decay widths well constrained by the experiment, and some mesons that are currently considered candidates for hadronic molecules and glueballs. Our results demonstrate that the experimental analysis of these states is feasible at CERN-LHC.

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