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J/Psi photo-production in ultra-peripheral Pb-Pb collisions

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The strong electro-magnetic fields produced by ultra-relativistic heavy ions allow for the study of gamma-gamma and gamma-nucleus processes at the CERN Large Hadron Collider. Here, we report first results obtained by ALICE on the J/psi photo-production cross section in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV, both at forward rapidities ($-3.6 < y < -2.6$) in the $\mu+\mu^-$ channel, and at central rapidities ($-0.9 < y < 0.9$) in $e+e^-$ and $\mu+\mu^-$ channels. The obtained cross sections are compared with predictions from several models. In addition, we have measured the cross section of the process $\gamma\text{-}\gamma \rightarrow e+e^-$ in central rapidity and compared it to the STARLIGHT Monte-Carlo prediction.

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