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Coherent J/ψ photoproduction in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV $\hat{\sim} \dagger$

ALICE Collaboration $\hat{\sim} \dagger$ M. Zyzak $\hat{\sim} \dagger$ ^{ba}

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Abstract

The ALICE Collaboration has made the first measurement at the LHC of J/ψ photoproduction in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV. The J/ψ is identified via its dimuon decay in the forward rapidity region with the muon spectrometer for events where the hadronic activity is required to be minimal. The analysis is based on an event sample corresponding to an integrated luminosity of about $55 \text{ } \hat{1}/4 \text{ b}^{\hat{\sim} 1}$. The cross section for coherent J/ψ production in the rapidity interval $\hat{\sim} 3.6 < y < \hat{\sim} 2.6$ is measured to be $d\sigma(J/\psi)_{\text{coh}}/dy = 1.00 \hat{\pm} 0.18(\text{stat}) \hat{\sim} 0.26 + 0.24(\text{syst}) \text{ mb}$. The result is compared to theoretical models for coherent J/ψ production and found to be in good agreement with those models which include nuclear gluon shadowing.

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1 Also at: M.V. Lomonosov Moscow State University, D.V. Skobeltsyn Institute of Nuclear Physics, Moscow, Russia.

2 Also at: University of Belgrade, Faculty of Physics and “Vinča” Institute of Nuclear Sciences, Belgrade, Serbia.

3 Deceased.

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