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Measurement of exclusive Upsilon photoproduction from protons in pPb collisions at root sNN=5.02 Tev

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Group Author(s): [CMS Collaboration](#)
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EUROPEAN PHYSICAL JOURNAL C
 Volume: 79 Issue: 3
 Article Number: 277
 DOI: 10.1140/epjc/s10052-019-6774-8
 Published: MAR 26 2019
 Document Type: Article
[View Journal Impact](#)

Abstract

The exclusive photoproduction of (nS) meson states from protons, (nS) p (with n = 1, 2, 3), is studied in ultraperipheral pPb collisions at a centre-of-mass energy per nucleon pair of The measurement is performed using the decay mode, with data collected by the CMS experiment corresponding to an integrated luminosity of 32.6 nb⁻¹. Differential cross sections as functions of the nS) transverse momentum squared and rapidity y, are presented. The 1S) photoproduction cross section is extracted in the rapidity range < 2.2, which corresponds to photon-proton centre-of-mass energies in the range 91 W < 826 GeV. The data are compared to theoretical predictions based on perturbative quantum chromodynamics and to previous measurements.

Keywords

Author Keywords: [CMS](#); [UPC](#); [photoproduction](#); [Y](#); [pPb](#)
 KeyWords Plus: [MESONS](#); [GLUON](#); [J/PSI](#); [POMERON](#)

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- Exclusive J/psi and psi(2S) production in pp collisions at root s=7 TeV** Times Cited: 95

By: Aaij, R.; Beteta, C. Abellan; Adametz, A.; et al.
 JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS Volume: 40 Issue: 4 Article Number: 045001 Published: APR 2013
- Charmonium and e(+)e(-) pair photoproduction at mid-rapidity in ultra-peripheral Pb-Pb collisions at root s(NN)=2.76 TeV** Times Cited: 113

By: Abbas, E.; Abelev, B.; Adam, J.; et al.
 Group Author(s): ALICE Collaboration
 EUROPEAN PHYSICAL JOURNAL C Volume: 73 Issue: 11 Article Number: 2617 Published: NOV 9 2013
- Coherent J/psi photoproduction in ultra-peripheral Pb-Pb collisions at root s(NN)=2.76 TeV** Times Cited: 137

By: Abelev, B.; Adam, J.; Adamova, D.; et al.
 Group Author(s): ALICE Collaboration
 PHYSICS LETTERS B Volume: 718 Issue: 4-5 Pages: 1273-1283 Published: JAN 29 2013
- Measurement of the t dependence in exclusive photoproduction of gamma(1s) mesons at HERA** Times Cited: 13

By: Abramowicz, H.; Abt, I.; Adamczyk, L.; et al.
 Group Author(s): ZEUS Collaboration
 PHYSICS LETTERS B Volume: 708 Issue: 1-2 Pages: 14-20 Published: FEB 14 2012
- Coherent photoproduction of psi and Gamma mesons in ultraperipheral pPb and PbPb collisions at the CERN Large Hadron Collider at root s(NN)=5 TeV and root s(NN)=2.76 TeV** Times Cited: 25

By: Adeluyi, Adeola; Trang Nguyen
 PHYSICAL REVIEW C Volume: 87 Issue: 2 Article Number: 027901 Published: FEB 28 2013
- Nuclear effects in photoproduction of heavy quarks and vector mesons in ultraperipheral PbPb and pPb collisions at energies available at the CERN Large Hadron Collider** Times Cited: 6

By: Adeluyi, Adeola; Bertulani, C. A.; Murray, M. J.
 PHYSICAL REVIEW C Volume: 86 Issue: 4 Article Number: 047901 Published: OCT 22 2012
- Elastic photoproduction of J/psi and gamma mesons at HERA** Times Cited: 173

By: Adloff, C.; Andreev, V.; Andrieu, B.; et al.
 Group Author(s): H1 Collaboration
 PHYSICS LETTERS B Volume: 483 Issue: 1-3 Pages: 23-35 Published: JUN 15 2000

8. Title: [not available] Times Cited: 91
 By: Adye, T.
 P PHYSTAT 2011 WORKS Pages: 313-318 Published: 2011
 Publisher: CERN, Geneva
9. [GEANT4-a simulation toolkit](#) Times Cited: 11,889
 By: Agostinelli, S; Allison, J; Amako, K; et al.
 NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 506 Issue: 3
 Pages: 250-303 Published: JUL 1 2003
10. [Energy dependence of exclusive \$J/\psi\$ photoproduction off protons in ultra-peripheral pPb collisions at \$s_{NN} = 5.02\$ TeV](#) Times Cited: 1

$$\begin{aligned} & \backslash\documentclass[12pt]{minimal} \usepackage{amsmath} \usepackage{wasysym} \usepackage{amsfonts} \\ & \usepackage{amssymb} \usepackage{amsbsy} \usepackage{mathrsfs} \usepackage{upgreek} \setlength{\oddsidemargin}{-69pt} \\ & \begin{document} \end{document} \end{aligned}$$
 photoproduction off protons in ultra-peripheral pPb collisions at $s_{NN} = 5.02$ TeV

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 Group Author(s): ALICE Collaboration
 arXiv:1809.03235 Published: 2018
11. [Exclusive \$J/\psi\$ photoproduction off protons in ultra-peripheral pPb collisions at \$s_{NN} = 5.02\$ TeV](#) Times Cited: 9

$$\begin{aligned} & \backslash\documentclass[12pt]{minimal} \usepackage{amsmath} \usepackage{wasysym} \usepackage{amsfonts} \usepackage{amssymb} \\ & \usepackage{amsbsy} \usepackage{mathrsfs} \usepackage{upgreek} \setlength{\oddsidemargin}{-69pt} \begin{document} \end{document} \\ & \backslash\documentclass[12pt]{minimal} \usepackage{amsmath} \usepackage{wasysym} \usepackage{amsfonts} \usepackage{amssymb} \usepackage{amsbsy} \\ & \usepackage{mathrsfs} \usepackage{upgreek} \setlength{\oddsidemargin}{-69pt} \begin{document} \end{document} \end{aligned}$$
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$$\begin{aligned} & \backslash\documentclass[12pt]{minimal} \usepackage{amsmath} \usepackage{wasysym} \usepackage{amsfonts} \usepackage{amssymb} \usepackage{amsbsy} \\ & \usepackage{mathrsfs} \usepackage{upgreek} \setlength{\oddsidemargin}{-69pt} \begin{document} \end{document} \end{aligned}$$
 Group Author(s): ALICE Collaboration
 Phys. Rev. Lett. Volume: 113 Article Number: 232504 Published: 2014
12. [Geant4 developments and applications](#) Times Cited: 3,185
 By: Allison, J; Amako, K; Apostolakis, J; et al.
 IEEE TRANSACTIONS ON NUCLEAR SCIENCE Volume: 53 Issue: 1 Pages: 270-278 Part: 2 Published: FEB 2006
13. [Recent developments in GEANT4](#) Times Cited: 631
 By: Allison, J.; Amako, K.; Apostolakis, J.; et al.
 NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 835 Pages:
 186-225 Published: NOV 1 2016
14. [Parton distributions for the LHC run II](#) Times Cited: 913
 By: Ball, Richard D.; Bertone, Valerio; Carrazza, Stefano; et al.
 Group Author(s): NNPDF Collaboration
 JOURNAL OF HIGH ENERGY PHYSICS Issue: 4 Article Number: 040 Published: APR 8 2015
15. [The physics of ultraperipheral collisions at the LHC](#) Times Cited: 218
 By: Baltz, A. J.; Baur, G.; d'Enterria, D.; et al.
 PHYSICS REPORTS-REVIEW SECTION OF PHYSICS LETTERS Volume: 458 Issue: 1-3 Pages: 1-171 Published: MAR 2008
16. [The QCD Pomeron with optimal renormalization](#) Times Cited: 203
 By: Brodsky, S.J; Fadin, V.S; Kim, V.T; et al.
 JETP LETTERS Volume: 70 Issue: 3 Pages: 155-160 Published: AUG 10 1999
17. [DIFFRACTIVE LEPTOPRODUCTION OF VECTOR-MESONS IN QCD](#) Times Cited: 480
 By: BRODSKY, S.J; FRANKFURT, L; GUNION, J.F; et al.
 PHYSICAL REVIEW D Volume: 50 Issue: 5 Pages: 3134-3144 Published: SEP 1 1994
18. [The two-photon particle production mechanism. Physical problems. Applications. Equivalent photon approximation](#) Times Cited: 439
 By: Budnev, V.M.; Ginzburg, I.F.; Meledin, G.V.; et al.
 Physics Reports. Physics Letters Section C Volume: 15c Issue: 4 Pages: 181-282 Published: Jan. 1975
19. Title: [not available] Times Cited: 9
 By: *CDF COLL
 PHYS REV LETT Volume: 88 Published: 2002
20. [Event activity dependence of \(nS\) production in=5.02 TeV pPb and=2.76 TeV pp collisions](#) Times Cited: 73
 By: Chatrchyan, S.; Khachatryan, V.; Sirunyan, A. M.; et al.
 Group Author(s): CMS Collaboration
 JOURNAL OF HIGH ENERGY PHYSICS Issue: 4 Article Number: 103 Published: APR 15 2014
21. [Description and performance of track and primary-vertex reconstruction with the CMS tracker](#) Times Cited: 220
 By: Chatrchyan, S.; Khachatryan, V.; Sirunyan, A. M.; et al.
 Group Author(s): CMS Collaboration
 JOURNAL OF INSTRUMENTATION Volume: 9 Article Number: P10009 Published: OCT 2014

22. **Performance of CMS muon reconstruction in pp collision events at root s=7TeV** Times Cited: 399
By: Chatrchyan, S.; Khachatryan, V.; Sirunyan, A. M.; et al.
Group Author(s): CMS Collaboration
JOURNAL OF INSTRUMENTATION Volume: 7 Article Number: P10002 Published: OCT 2012
23. **The CMS experiment at the CERN LHC** Times Cited: 2,855
By: Chatrchyan, S.; Hmayakyan, G.; Khachatryan, V.; et al.
Group Author(s): CMS Collaboration
JOURNAL OF INSTRUMENTATION Volume: 3 Article Number: S08004 Published: AUG 2008
24. **Luminosity Calibration for the 2013 Proton-Lead and Proton-Proton Data Taking** Times Cited: 10
Group Author(s): CMS Collaboration
CMS Physics Analysis Summary CMS-PAS-LUM-13-002 Published: 2013
25. **Quarkonia Photoproduction at Nucleus Colliders** Times Cited: 3
By: d'Enterria, David
NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS Volume: 184 Pages: 158-162 Published: NOV 2008
26. **A MULTIDIMENSIONAL UNFOLDING METHOD BASED ON BAYES THEOREM** Times Cited: 586
By: DAGOSTINI, G
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT Volume: 362 Issue: 2-3
Pages: 487-498 Published: AUG 15 1995
27. **Exclusive photoproduction of quarkonium in proton-nucleus collisions at energies available at the CERN Large Hadron Collider** Times Cited: 17
By: dos Santos, G. Sampaio; Machado, M. V. T.
PHYSICAL REVIEW C Volume: 89 Issue: 2 Article Number: 025201 Published: FEB 3 2014
28. **New parton distribution functions from a global analysis of quantum chromodynamics** Times Cited: 562
By: Dulat, Sayipjamal; Hou, Tie-Jiun; Gao, Jun; et al.
PHYSICAL REVIEW D Volume: 93 Issue: 3 Article Number: 033006 Published: FEB 16 2016
29. **Deeply virtual meson production on the nucleon** Times Cited: 25
By: Favart, L.; Guidal, M.; Horn, T.; et al.
EUROPEAN PHYSICAL JOURNAL A Volume: 52 Issue: 6 Article Number: 158 Published: JUN 20 2016
30. Title: [not available] Times Cited: 35
By: FRANKFURT L
JHEP Volume: 103 Pages: 45 Published: 2001

Showing 30 of 68 [View All in Cited References page](#)

