



University of Zagreb  
Faculty of Science  
Department of Physics

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SCIENTIFIC PUBLICATIONS  
IN 2013

SCIENTIFIC PUBLICATION  
PUBLISHED IN JOURNAL ARTICLES AND REVIEW ARTICLES IN 2013  
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1. Abbas, E.; ...; Antičić, T.; ...; Gotovac, S.; ...; Mudnić, E.; ...; Planinić, M.; ...; Poljak, N.; ...; Simatović, G.; ...; Šuša, T.; ...; Vicković, L.; ...; Zyzak, M. (ALICE Collaboration)  
Charmonium and  $e^+e^-$  pair photoproduction at mid-rapidity in ultra-peripheral Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV  
EUROPEAN PHYSICAL JOURNAL C. **73** (11), 2617 (2013)  
DOI: [10.1140/epjc/s10052-013-2617-1](https://doi.org/10.1140/epjc/s10052-013-2617-1)  
IF (2013): 5.436
2. Abbas, E.; ...; Antičić, T.; ...; Gotovac, S.; ...; Mudnić, E.; ...; Planinić, M.; ...; Poljak, N.; ...; Simatović, G.; ...; Šuša, T.; ...; Vicković, L.; ...; Zyzak, M. (ALICE Collaboration)  
Performance of the ALICE VZERO system  
JOURNAL OF INSTRUMENTATION. **8**, P10016 (2013)  
DOI: [10.1088/1748-0221/8/10/P10016](https://doi.org/10.1088/1748-0221/8/10/P10016)  
IF (2013): 1.526
3. Abbas, E.; ...; Antičić, T.; ...; Gotovac, S.; ...; Mudnić, E.; ...; Planinić, M.; ...; Poljak, N.; ...; Simatović, G.; ...; Šuša, T.; ...; Vicković, L.; ...; Zyzak, M. (ALICE Collaboration)  
Mid-rapidity anti-baryon to baryon ratios in pp collisions at  $\sqrt{s}=0.9, 2.76$  and 7 TeV measured by ALICE  
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DOI: [10.1140/epjc/s10052-013-2496-5](https://doi.org/10.1140/epjc/s10052-013-2496-5)  
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J /  $\psi$  Elliptic Flow in Pb-Pb Collisions at  $\sqrt{s_{NN}}=2.76$  TeV  
PHYSICAL REVIEW LETTERS. **111** (16), 162301 (2013)  
DOI: [10.1103/PhysRevLett.111.162301](https://doi.org/10.1103/PhysRevLett.111.162301)  
IF (2013): 7.728
5. Abbas, E.; ...; Antičić, T.; ...; Gotovac, S.; ...; Mudnić, E.; ...; Planinić, M.; ...; Poljak, N.; ...; Simatović, G.; ...; Šuša, T.; ...; Vicković, L.; ...; Zyzak, M. (ALICE Collaboration)  
Centrality dependence of the pseudorapidity density distribution for charged particles in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV  
PHYSICS LETTERS B. **726** (4-5), 610-622 (2013)  
DOI: [10.1016/j.physletb.2013.09.022](https://doi.org/10.1016/j.physletb.2013.09.022)  
IF (2013): 6.019

6. Abelev, B.; ...; Antičić, T.; ...; Gotovac, S.; ...; Mudnić, E.; ...; Planinić, M.; ...; Poljak, N.; ...; Simatović, G.; ...; Šuša, T.; ...; Vicković, L.; ...; Zyzak, M. (ALICE Collaboration)  
Directed flow of charged particles at midrapidity relative to the spectator plane in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76\text{TeV}$   
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DOI: [10.1103/PhysRevLett.111.232302](https://doi.org/10.1103/PhysRevLett.111.232302)  
IF (2013): 7.728
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Coherent  $J/\psi$  photoproduction in ultra-peripheral Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76\text{TeV}$   
PHYSICS LETTERS B. **718** (4-5), 1273-1283 (2013)  
DOI: [10.1016/j.physletb.2012.11.059](https://doi.org/10.1016/j.physletb.2012.11.059)  
IF (2013): 6.019
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Long-range angular correlations of  $\pi$ , K and p in p-Pb collisions at  $\sqrt{s_{NN}}=5.02\text{TeV}$   
PHYSICS LETTERS B. **726** (1-3), 164-177 (2013)  
DOI: [10.1016/j.physletb.2013.08.024](https://doi.org/10.1016/j.physletb.2013.08.024)  
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9. Abelev, B. ...; Antičić, T.; ...; Gotovac, S.; ...; Mudnić, E.; ...; Planinić, M.; ...; Simatović, G.; ...; Šuša, T.; ...; Vicković, L.; ...; Zyzak, M. (ALICE Collaboration)  
 $K_S^0$  and  $\Lambda$  production in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76\text{TeV}$   
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DOI: [10.1103/PhysRevLett.111.222301](https://doi.org/10.1103/PhysRevLett.111.222301)  
IF (2013): 7.728
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D Meson Elliptic Flow in Noncentral Pb-Pb Collisions at  $\sqrt{s_{NN}}=2.76\text{TeV}$   
PHYSICAL REVIEW LETTERS. **111** (10), 102301 (2013)  
DOI: [10.1103/PhysRevLett.111.102301](https://doi.org/10.1103/PhysRevLett.111.102301)  
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Centrality dependence of  $\pi$ , K, and p production in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76\text{TeV}$   
PHYSICAL REVIEW C. **88** (4), 44910 (2013)  
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Transverse Momentum Distribution and Nuclear Modification Factor of Charged Particles in p + Pb Collisions at  $\sqrt{s_{NN}}=5.02$  TeV  
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DOI: [10.1103/PhysRevLett.110.082302](https://doi.org/10.1103/PhysRevLett.110.082302)  
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Measurement of the inclusive differential jet cross section in pp collisions at  $\sqrt{s}=2.76$  TeV  
PHYSICS LETTERS B. **722** (4-5), 262-272 (2013)  
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Centrality determination of Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV with ALICE  
PHYSICAL REVIEW C. **88** (4), 44909 (2013)  
DOI: [10.1103/PhysRevC.88.044909](https://doi.org/10.1103/PhysRevC.88.044909)  
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Pseudorapidity Density of Charged Particles in p + Pb Collisions at  $\sqrt{s_{NN}}=5.02$  TeV  
PHYSICAL REVIEW LETTERS. **110** (3), 32301 (2013)  
DOI: [10.1103/PhysRevLett.110.032301](https://doi.org/10.1103/PhysRevLett.110.032301)  
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Charge correlations using the balance function in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV  
PHYSICS LETTERS B. **723** (4-5), 267-279 (2013)  
DOI: [10.1016/j.physletb.2013.05.039](https://doi.org/10.1016/j.physletb.2013.05.039)  
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Charged kaon femtoscopic correlations in pp collisions at  $\sqrt{s}=7$  TeV  
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Multiplicity dependence of the average transverse momentum in pp, p-Pb, and Pb-Pb collisions at the LHC  
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Energy dependence of the transverse momentum distributions of charged particles in pp collisions measured by ALICE  
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Centrality dependence of charged particle production at large transverse momentum in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV  
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Measurement of inelastic, single- and double-diffraction cross sections in proton-proton collisions at the LHC with ALICE  
EUROPEAN PHYSICAL JOURNAL C. **73** (6), 2456 (2013)  
DOI: [10.1140/epjc/s10052-013-2456-0](https://doi.org/10.1140/epjc/s10052-013-2456-0)  
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Measurement of electrons from beauty hadron decays in pp collisions at  $\sqrt{s}=7$  TeV  
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IF (2013): 6.019
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Third harmonic flow of charged particles in Au + Au collisions at  $\sqrt{s_{NN}}=200$  GeV  
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IF (2013): 3.881
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Elliptic flow of identified hadrons in Au + Au collisions at  $\sqrt{s_{NN}}=7.7-62.4$  GeV  
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DOI: [10.1103/PhysRevC.88.014902](https://doi.org/10.1103/PhysRevC.88.014902)  
IF (2013): 3.881
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Measurement of  $J/\psi$  Azimuthal Anisotropy in Au + Au Collisions at  $\sqrt{s_{NN}}=200$  GeV  
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Fluctuations of charge separation perpendicular to the event plane and local parity violation in  $\sqrt{s_{NN}}=200$  GeV Au + Au collisions at the BNL Relativistic Heavy Ion Collider  
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31. Adamczyk, L.; ...; Planinić, M.; ...; Poljak, N.; ...; Zyzak, M. (STAR Collaboration)  
Freeze-out dynamics via charged kaon femtoscopy in  $\sqrt{s_{NN}}=200$  GeV central Au + Au collisions  
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System-size dependence of transverse momentum correlations at  $\sqrt{s_{NN}}=62.4$  and 200 GeV at the BNL Relativistic Heavy Ion Collider  
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 $J/\psi$  production at high transverse momenta in p + p and Au + Au collisions at  $\sqrt{s_{NN}}=200$  GeV  
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Medium Modification of Jet Fragmentation in Au + Au Collisions at  $\sqrt{s_{NN}}=200$  GeV Measured in Direct Photon-Hadron Correlations  
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