



University of Zagreb
Faculty of Science
Department of Physics

SCIENTIFIC PUBLICATIONS
IN 2017

SCIENTIFIC PUBLICATIONS
PUBLISHED IN JOURNAL ARTICLES AND REVIEW ARTICLES IN 2017
(Web of Science Core Collection)

1. Acharya, S.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Lončar, P.; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zou, S. (ALICE Collaboration)
Kaon femtoscopy in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV
PHYSICAL REVIEW C. **96** (6), 64613 (2017)
DOI: <http://dx.doi.org/10.1103/PhysRevC.96.064613>
IF (2017): 3.304
2. Acharya, S.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Lončar, P.; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zou, S. (ALICE Collaboration)
J/ ψ Elliptic Flow in Pb-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV
PHYSICAL REVIEW LETTERS. **119** (24), 242301 (2017)
DOI: <http://dx.doi.org/10.1103/PhysRevLett.119.242301>
IF (2017): 8.839
3. Acharya, S.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Lončar, P.; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zou, S. (ALICE Collaboration)
Charged-particle multiplicity distributions over a wide pseudorapidity range in proton-proton collisions at $\sqrt{s}=0.9, 7,$ and 8 TeV
EUROPEAN PHYSICAL JOURNAL C. **77** (12), 852 (2017)
DOI: <http://dx.doi.org/10.1140/epjc/s10052-017-5412-6>
IF (2017): 5.172
4. Acharya, S.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Lončar, P.; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zou, S. (ALICE Collaboration)
Measuring $K^0_s K^\pm$ interactions using Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV
PHYSICS LETTERS B. **774**, 64-77 (2017)
DOI: <http://dx.doi.org/10.1016/j.physletb.2017.09.009>
IF (2017): 4.254
5. Acharya, S.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Lončar, P.; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zou, S. (ALICE Collaboration)
Linear and non-linear flow mode in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV
PHYSICS LETTERS B. **773**, 68-80 (2017)
DOI: <http://dx.doi.org/10.1016/j.physletb.2017.07.060>
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6. Acharya, S.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Lončar, P.; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zou, S. (ALICE Collaboration)
Measurement of deuteron spectra and elliptic flow in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV at the LHC
EUROPEAN PHYSICAL JOURNAL C. **77** (10), 658 (2017)
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7. Acharya, S.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Lončar, P.; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zou, S. (ALICE Collaboration)
Searches for transverse momentum dependent flow vector fluctuations in Pb-Pb and p-Pb collisions at the LHC
JOURNAL OF HIGH ENERGY PHYSICS. **2017** (9), 32 (2017)
DOI: [http://dx.doi.org/10.1007/JHEP09\(2017\)032](http://dx.doi.org/10.1007/JHEP09(2017)032)
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8. Acharya, S.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Lončar, P.; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zmeskal, J. (ALICE Collaboration)
Measurement of D-meson production at mid-rapidity in pp collisions at $\sqrt{s}=7$ TeV
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DOI: <http://dx.doi.org/10.1140/epjc/s10052-017-5090-4>
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9. Acharya, S.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Lončar, P.; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zmeskal, J. (ALICE Collaboration)
Production of muons from heavy-flavour hadron decays in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV
PHYSICS LETTERS B. **770**, 459-472 (2017)
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IF (2017): 4.254
10. Acharya, S.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Lončar, P.; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zmeskal, J. (ALICE Collaboration)
Energy dependence of forward-rapidity J/ψ and $\psi(2S)$ production in pp collisions at the LHC
EUROPEAN PHYSICAL JOURNAL C. **77** (6), 392 (2017)
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Production of π^0 and η mesons up to high transverse momentum in pp collisions at 2.76 TeV
EUROPEAN PHYSICAL JOURNAL C. **77** (5), 339 (2017)
DOI: <http://dx.doi.org/10.1140/epjc/s10052-017-4890-x>
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Beam helicity asymmetries in $K^+\Lambda$ electroproduction off the proton at low Q^2
EUROPEAN PHYSICAL JOURNAL A. **53** (10), 198 (2017)
DOI: <http://dx.doi.org/10.1140/epja/i2017-12395-1>
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13. Adam, J.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Lončar, P.; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zmeskal, J. (ALICE Collaboration)
Centrality dependence of the pseudorapidity density distribution for charged particles in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV
PHYSICS LETTERS B. **772**, 567-577 (2017)
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Evolution of the longitudinal and azimuthal structure of the near-side jet peak in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV
PHYSICAL REVIEW C. **96** (3), 34904 (2017)
DOI: <http://dx.doi.org/10.1103/PhysRevC.96.034904>
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Anomalous Evolution of the Near-Side Jet Peak Shape in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV
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Insight into particle production mechanisms via angular correlations of identified particles in pp collisions at $\sqrt{s}=7$ TeV
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DOI: <http://dx.doi.org/10.1140/epjc/s10052-017-5129-6>
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Measurement of the production of high-pT electrons from heavy-flavour hadron decays in Pb–Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV
PHYSICS LETTERS B. **771**, 467-481 (2017)
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IF (2017): 4.254
18. Adam, J.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zmeskal, J. (ALICE Collaboration)
Measurement of electrons from beauty-hadron decays in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV and Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV
JOURNAL OF HIGH ENERGY PHYSICS. **2017** (7), 52 (2017)
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 $K^*(892)^0$ and $\phi(1020)$ meson production at high transverse momentum in pp and Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV
PHYSICAL REVIEW C. **95** (6), 64606 (2017)
DOI: <http://dx.doi.org/10.1103/PhysRevC.95.064606>
IF (2017): 3.304
20. Adam, J.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zyzak, M. (ALICE Collaboration)
Enhanced production of multi-strange hadrons in high-multiplicity proton-proton collisions
NATURE PHYSICS. **13** (6), 535-539 (2017)
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phi-Meson production at forward rapidity in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV and in pp collisions at $\sqrt{s}=2.76$ TeV
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Flow Dominance and Factorization of Transverse Momentum Correlations in Pb-Pb Collisions at the LHC
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23. Adam, J.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zyzak, M. (ALICE Collaboration)
Measurement of azimuthal correlations of D mesons with charged particles in pp collisions at $\sqrt{s} = 7$ TeV and p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV
EUROPEAN PHYSICAL JOURNAL C. **77** (4), 245 (2017)
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J/ψ suppression at forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV
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Determination of the event collision time with the ALICE detector at the LHC
EUROPEAN PHYSICAL JOURNAL PLUS. **132** (2), 99 (2017)
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W and Z boson production in p-Pb collisions at TeV $\sqrt{s_{NN}}=5.02$ TeV
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Charged-particle multiplicities in proton-proton collisions at $\sqrt{s}=0.9$ to 8 TeV
EUROPEAN PHYSICAL JOURNAL C. **77** (1), 33 (2017)
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Production of $(1385)^\pm$ and $(1530)^0$ in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV
EUROPEAN PHYSICAL JOURNAL C. **77** (6), 389 (2017)
DOI: <http://dx.doi.org/10.1140/epjc/s10052-017-4943-1>
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29. Adamova, D.; ...; Antičić, Tome; ...; Erhardt, Filip; ...; Gotovac, Sven; ...; Jerčić, Marko; ...; Lončar, P.; ...; Mudnić, Eugen; ...; Planinić, Mirko; ...; Poljak, Nikola; ...; Simatović, Goran; ...; Utrobičić, Antonija; ...; Vicković, Linda; ...; Zmeskal, J. (ALICE Collaboration)
Azimuthally Differential Pion Femtoscopy in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV
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30. Adare, A.; ...; Makek, Mihael; ...; Zou, L. (PHENIX Collaboration)
Measurements of $e^{(+)}e^{(-)}$ pairs from open heavy flavor in p + p and d + A collisions at $\sqrt{s_{NN}}=200$ GeV
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31. Adare, A.; ...; Makek, Mihael; ...; Vukman, Nikola; ...; Zou, L. (PHENIX Collaboration)
Angular decay coefficients of J/psi mesons at forward rapidity from p + p collisions at $\sqrt{s}=510$ GeV
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32. Adare, A.; ...; Makek, Mihael; ...; Vukman, Nikola; ...; Zou, L. (PHENIX Collaboration)
Nonperturbative-transverse-momentum effects and evolution in dihadron and direct photon-hadron angular correlations in p + p collisions at $\sqrt{s}=510$ GeV
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33. Adare, A.; ...; Makek, Mihael; ...; Vukman, Nikola; ...; Zou, L. (PHENIX Collaboration)
Measurement of the relative yields of $\psi(2S)$ to $\psi(1S)$ mesons produced at forward and backward rapidity in p + p, p + Al, p + Au, and 3He + Au collisions at $\sqrt{s_{NN}} = 200$ GeV
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34. Aidala, C.; ...; Makek, Mihael; ...; Zou, L. (PHENIX Collaboration)
Measurements of azimuthal anisotropy and charged-particle multiplicity in d + Au collisions at $\sqrt{s_{NN}}=200,62.4,39$, and 19.6 GeV
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35. Aidala, C.; ...; Makek, Mihael; ...; Vukman, Nikola; ...; Zou, L. (PHENIX Collaboration)
B-meson production at forward and backward rapidity in p+p and Cu + Au collisions at $\sqrt{s_{NN}}=200$ GeV
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36. Aidala, C.; ...; Makek, Mihael; ...; Zou, L. (PHENIX Collaboration)
Cross section and transverse single-spin asymmetry of muons from open heavy-flavor decays in polarized p + p collisions at $\sqrt{s} = 200$ GeV
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37. Aidala, C.; ...; Makek, Mihael; ...; Zou, L. (PHENIX Collaboration)
Measurements of $B \rightarrow J/\psi$ at forward rapidity in p+p collisions at $\sqrt{s}=510$ GeV
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38. Aidala, C.; ...; Makek, Mihael; ...; Vukman, Nikola; ...; Zou, L. (PHENIX Collaboration)
Measurement of long-range angular correlations and azimuthal anisotropies in high-multiplicity p + Au collisions at $\sqrt{s_{NN}} = 200$ GeV
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Extended Higgs sectors in radiative neutrino models
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Vortex Pinning in Nanostructured Novel Superconductors
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Interplay of long-range and short-range Coulomb interactions in an Anderson-Mott insulator
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