



University of Zagreb
Faculty of Science
Department of Physics

SCIENTIFIC PUBLICATIONS
IN 2020

SCIENTIFIC PUBLICATIONS OF THE DEPARTMENT OF PHYSICS IN 2020
(Web of Science Core Collection)

1. Acharya, S. ; ... ; Antičić, Tome ; ... ; Erhardt, Filip ; ... ; Gotovac, Sven ; ... ; Jerčić, Marko ; ... ; Lončar, Petra ; ... ; Mudnić, Eugen ; ... ; Planinić, Mirko ; ... ; Poljak, Nikola ; ... ; Simatović, Goran ; ... ; Utrobičić, Antonija ; ... ; Vicković, Linda ; ... ; Zurlo, N. (ALICE Collaboration)
Production of charged pions, kaons, and (anti-)protons in Pb-Pb and inelastic pp collisions at $\sqrt{s_{NN}}=5.02$ TeV
PHYSICAL REVIEW C. **101** (4), 044907 (2020)
DOI: <http://dx.doi.org/10.1103/PhysRevC.101.044907>
IF (2020): 3.296
2. Accorto, G.; Brandolini, P.; Marino, F.; Porro, A.; Scalesi, A.; Colo, G.; Roca-Maza, X.; Vigezzi, E.
First step in the nuclear inverse Kohn-Sham problem: From densities to potentials
PHYSICAL REVIEW C. **101** (2), 024315 (2020)
DOI: <http://dx.doi.org/10.1103/PhysRevC.101.024315>
IF (2020): 3.296
3. Acharya, S. ; ... ; Antičić, Tome ; ... ; Erhardt, Filip ; ... ; Gotovac, Sven ; ... ; Jerčić, Marko ; ... ; Lončar, Petra ; ... ; Mudnić, Eugen ; ... ; Planinić, Mirko ; ... ; Poljak, Nikola ; ... ; Simatović, Goran ; ... ; Utrobičić, Antonija ; ... ; Vicković, Linda ; ... ; Zurlo, N. (ALICE Collaboration)
Multiplicity dependence of (multi-)strange hadron production in proton-proton collisions at $\sqrt{s}=13$ TeV
EUROPEAN PHYSICAL JOURNAL C. **80** (2), 167 (2020)
DOI: <http://dx.doi.org/10.1140/epjc/s10052-020-7673-8>
IF (2020): 4.590
4. Acharya, S. ; ... ; Antičić, Tome ; ... ; Erhardt, Filip ; ... ; Gotovac, Sven ; ... ; Jerčić, Marko ; ... ; Lončar, Petra ; ... ; Mudnić, Eugen ; ... ; Planinić, Mirko ; ... ; Poljak, Nikola ; ... ; Simatović, Goran ; ... ; Utrobičić, Antonija ; ... ; Vicković, Linda ; ... ; Zurlo, N. (ALICE Collaboration)
Exploration of jet substructure using iterative declustering in pp and Pb-Pb collisions at LHC energies
PHYSICS LETTERS B. **802**, 135227 (2020)
DOI: <http://dx.doi.org/10.1016/j.physletb.2020.135227>
IF (2020): 4.771
5. Acharya, S. ; ... ; Antičić, Tome ; ... ; Erhardt, Filip ; ... ; Gotovac, Sven ; ... ; Jerčić, Marko ; ... ; Lončar, Petra ; ... ; Mudnić, Eugen ; ... ; Planinić, Mirko ; ... ; Poljak, Nikola ; ... ; Simatović, Goran ; ... ; Utrobičić, Antonija ; ... ; Vicković, Linda ; ... ; Zurlo, N. (ALICE Collaboration)
(Anti-)deuteron production in pp collisions at $\sqrt{s}=13$ TeV
EUROPEAN PHYSICAL JOURNAL C. **80** (9), 889 (2020)
DOI: <http://dx.doi.org/10.1140/epjc/s10052-020-8256-4>
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PHYSICS LETTERS B. **802**, 135225 (2020)
DOI: <http://dx.doi.org/10.1016/j.physletb.2020.135225>
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DOI: [http://dx.doi.org/10.1007/JHEP09\(2020\)160](http://dx.doi.org/10.1007/JHEP09(2020)160)
IF (2020): 5.810
8. Acharya, S. ; ... ; Antičić, Tome ; ... ; Erhardt, Filip ; ... ; Gotovac, Sven ; ... ; Jerčić, Marko ; ... ; Lončar, Petra ; ... ; Mudnić, Eugen ; ... ; Planinić, Mirko ; ... ; Poljak, Nikola ; ... ; Simatović, Goran ; ... ; Utrobičić, Antonija ; ... ; Vicković, Linda ; ... ; Zurlo, N. (ALICE Collaboration) $K^*(892)^0$ and $\phi(1020)$ production at midrapidity in pp collisions at $\sqrt{s}=8$ TeV
PHYSICAL REVIEW C. **102** (2), 024912 (2020)
DOI: <http://dx.doi.org/10.1103/PhysRevC.102.024912>
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DOI: [http://dx.doi.org/10.1007/JHEP06\(2020\)147](http://dx.doi.org/10.1007/JHEP06(2020)147)
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DOI: <http://dx.doi.org/10.1016/j.physletb.2020.135223>
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IF (2020): 49.962
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PHYSICAL REVIEW C. **101** (4), 044611 (2020)
DOI: <http://dx.doi.org/10.1103/PhysRevC.101.044611>
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Scattering Studies with Low-Energy Kaon-Proton Femtoscopy in Proton-Proton Collisions at the LHC
PHYSICAL REVIEW LETTERS. **124** (9), 092301 (2020)
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Measurement of electrons from semileptonic heavy-flavour hadron decays at midrapidity in pp and Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV
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Longitudinal and azimuthal evolution of two-particle transverse momentum correlations in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV
PHYSICS LETTERS B. **804**, 135375 (2020)
DOI: <http://dx.doi.org/10.1016/j.physletb.2020.135375>
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Measurement of $\Lambda(1520)$ production in pp collisions at $\sqrt{s}=7$ TeV and p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV
EUROPEAN PHYSICAL JOURNAL C. **80** (2), 160 (2020)
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Measurement of electrons from heavy-flavour hadron decays as a function of multiplicity in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV
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Evidence of Spin-Orbital Angular Momentum Interactions in Relativistic Heavy-Ion Collisions
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DOI: <http://dx.doi.org/10.1103/PhysRevLett.125.012301>
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Higher harmonic non-linear flow modes of charged hadrons in Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV
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Probing the Effects of Strong Electromagnetic Fields with Charge-Dependent Directed Flow in Pb-Pb Collisions at the LHC
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Production of (anti-) ^3He and (anti-) ^3H in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV
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Global baryon number conservation encoded in net-proton fluctuations measured in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV
PHYSICS LETTERS B. **807**, 135564 (2020)
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Multiplicity dependence of π , K, and p production in pp collisions at $\sqrt{s}=13$ TeV
EUROPEAN PHYSICAL JOURNAL C. **80** (8), 693 (2020)
DOI: <http://dx.doi.org/10.1140/epjc/s10052-020-8125-1>
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Investigation of the p - Σ^0 interaction via femtoscopy in pp collisions
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Multiplicity dependence of inclusive J/ψ production at midrapidity in pp collisions at $\sqrt{s}=13$ TeV
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Measurement of nuclear effects on $\psi(2S)$ production in p-Pb collisions at $\sqrt{s_{NN}}=8.16$ TeV
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Coherent photoproduction of ρ^0 vector mesons in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV
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Measurement of isolated photon-hadron correlations in $\sqrt{s_{NN}}=5.02$ TeV pp and p-Pb collisions
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Measurements of inclusive jet spectra in pp and central Pb-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV
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