

## Prof. VLADIMIR PESKOV



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### Research Areas

Experimental High Energy Physics Studies, Particle Detectors and Calorimeters, Experimental Neutrino Studies, Atmospheric Neutrinos, Cosmic Neutrinos, Biophysics and Medical Physics, Electronics, radio and microwave technologies, Physical Chemistry, Gases, Plasmas and Electrical Discharges Physics, Physical Properties of Gases, Physics of Plasmas, Nuclear Structure, Experimental Methods of Particle and Nuclear Physics, Radioactive decay and in-beam spectroscopy

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Towards development of Spark-Less-Avalanche-Microstructures**  
Waldmann T., Fabbietti L., Gasik P., PESKOV V., Ulukutlu B.  
Journal of Instrumentation, vol.18, no.7, 2023 (SCI-Expanded)
- II. **The upgrade of the ALICE TPC with GEMs and continuous readout**  
Adolfsson J., Ahmed M., Aiola S., Alme J., Alt T., Amend W., Anastasopoulos F., Andrei C., Angelsmark M., Anguelov V., et al.  
JOURNAL OF INSTRUMENTATION, vol.16, no.3, 2021 (SCI-Expanded)
- III. **Evaluation of high sensitivity flat-panel gaseous detectors of flames, sparks and smoke**  
Abbrescia M., De Cataldo G., Di Mauro A., Martinengo P., Pastore C., Peskov V., Pietropaolo F., Volpe G., Rodionov A.  
JOURNAL OF INSTRUMENTATION, vol.15, no.12, 2020 (SCI-Expanded)
- IV. **Production of omega mesons in pp collisions at  $\sqrt{s}=7$  TeV**  
Acharya S., Adamova D., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.  
EUROPEAN PHYSICAL JOURNAL C, vol.80, no.12, 2020 (SCI-Expanded)
- V. **Elliptic and triangular flow of (anti)deuterons in Pb-Pb collisions root  $\sqrt{s-NN}=5.02$  TeV**  
Acharya S., Adamova D., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.  
PHYSICAL REVIEW C, vol.102, no.5, 2020 (SCI-Expanded)
- VI. **Multiplicity dependence of inclusive J/psi production at midrapidity in pp collisions at root  $\sqrt{s}=13$  TeV**  
Acharya S., Adamova D., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z.,

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VII. **Dielectron production in proton-proton and proton-lead collisions at  $\sqrt{s(NN)}=5.02$  TeV**

Acharya S., Adamova D., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.

PHYSICAL REVIEW C, vol.102, no.5, 2020 (SCI-Expanded)

VIII. **J/psi elliptic and triangular flow in Pb-Pb collisions at  $\sqrt{s(NN)}=5.02$  TeV**

Acharya S., Adamova D., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.

JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.10, 2020 (SCI-Expanded)

IX. **Z-boson production in p-Pb collisions at  $\sqrt{sNN}=8.16$  TeV and Pb-Pb collisions at  $\sqrt{sNN}=5.02$  TeV**

Acharya S., Adamova D., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.

JOURNAL OF HIGH ENERGY PHYSICS, vol.2020, no.9, 2020 (SCI-Expanded)

X. **Global baryon number conservation encoded in net-proton fluctuations measured in Pb-Pb collisions at  $\sqrt{s(NN)}=2.76$  TeV**

Acharya S., Adamova D., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.

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XI. **Multiplicity dependence of  $K^*(892)(0)$  and  $\phi(1020)$  production in pp collisions at  $\sqrt{s}=13$  TeV**

Acharya S., Adamova D., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.

PHYSICS LETTERS B, vol.807, 2020 (SCI-Expanded)

XII. **Measurement of nuclear effects on  $\psi(2S)$  production in p-Pb collisions at  $\sqrt{s(NN)}=8.16$  TeV**

Acharya S., Adamova D., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.

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XIII. **Probing the Effects of Strong Electromagnetic Fields with Charge-Dependent Directed Flow in Pb-Pb Collisions at the LHC**

Acharya S., Adamova D., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.

PHYSICAL REVIEW LETTERS, vol.125, no.2, 2020 (SCI-Expanded)

XIV. **Upsilon production in p-Pb collisions at  $\sqrt{s(NN)}=8.16$  TeV**

Acharya S., Adamova D., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.

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XV. **Non-linear flow modes of identified particles in Pb-Pb collisions at  $\sqrt{sNN}=5.02$  TeV**

Acharya S., Acosta F. T., Adam J., Adamova D., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., et al.

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XVI. **Investigation of the  $p$ -Sigma(0) interaction via femtoscopy in pp collisions**

Acharya S., Adamova D., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.

PHYSICS LETTERS B, vol.805, 2020 (SCI-Expanded)

XVII. **Evidence of Spin-Orbital Angular Momentum Interactions in Relativistic Heavy-Ion Collisions**

Acharya S., Adamova D., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.

PHYSICAL REVIEW LETTERS, vol.125, no.1, 2020 (SCI-Expanded)

XVIII. **Jet-hadron correlations measured relative to the second order event plane in Pb-Pb collisions at  $\sqrt{s(NN)}=2.76$  TeV**

- Acharya S., Adamova D., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.  
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- XIX. **Centrality and transverse momentum dependence of inclusive J/psi production at midrapidity in Pb-Pb collisions at root s NN=5.02 TeV**  
Acharya S., Adamova D., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.  
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- XX. **Measurement of the (anti-)He-3 elliptic flow in Pb-Pb collisions at root s(NN)=5.02TeV**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., et al.  
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- XXI. **Measurement of electrons from semileptonic heavy-flavour hadron decays at midrapidity in pp and Pb-Pb collisions at root s(NN)=5.02 TeV**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., et al.  
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- XXII. **Longitudinal and azimuthal evolution of two-particle transverse momentum correlations in Pb-Pb collisions at root s(NN)=2.76 TeV**  
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PHYSICS LETTERS B, vol.804, 2020 (SCI-Expanded)
- XXIII. **Higher harmonic non-linear flow modes of charged hadrons in Pb-Pb collisions at root s(NN)=5.02 TeV**  
Acharya S., Adamova D., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., et al.  
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- XXIV. **Global polarization of Lambda and (Lambda)over-bar hyperons in Pb-Pb collisions at root s(NN)=2.76 and 5.02 TeV**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., et al.  
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- XXV. **Production of charged pions, kaons, and (anti-)protons in Pb-Pb and inelastic pp collisions at root s(NN)=5.02 TeV**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., et al.  
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- XXVI. **Production of (anti-)He-3 and (anti-)H-3 in p-Pb collisions at root s(NN)=5.02 TeV**  
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- XXVII. **Underlying event properties in pp collisions at root s=13 TeV**  
Acharya S., Acosta F. T., Adam J., Adamova D., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., et al.  
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- XXVIII. **Scattering Studies with Low-Energy Kaon-Proton Femtoscopy in Proton-Proton Collisions at the LHC**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., et al.  
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- XXIX. **Measurements of inclusive jet spectra in pp and central Pb-Pb collisions at root S-NN=5.02 TeV**  
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- XXX. **Measurement of strange baryon-antibaryon interactions with femtoscopic correlations**  
Acharya S., Acosta F. T., Adam J., Adamova D., Adler A., Adolfsen J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., et al.  
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- XXXI. **Exploration of jet substructure using iterative declustering in pp and Pb-Pb collisions at LHC energies**  
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- XXXII. **Studies of J/psi production at forward rapidity in Pb-Pb collisions at root s(NN)=5.02 TeV**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsen J., Aggarwal M. M., Aglieri Rinella G., Agnello M., Agrawal N., Ahammed Z., et al.  
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- XXXIII. **Measurement of electrons from heavy-flavour hadron decays as a function of multiplicity in p-Pb collisions at root s(NN)=5.02 TeV**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsen J., Aggarwal M. M., Aglieri Rinella G., Agnello M., Agrawal N., Ahammed Z., et al.  
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- XXXIV. **Measurement of Lambda(1520) production in pp collisions at root s=7 TeV and p-Pb collisions at root s(NN)=5.02 TeV**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsen J., Aggarwal M. M., Rinella A. G., Agnello M., Agrawal N., Ahammed Z., et al.  
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- XXXV. **Multiplicity dependence of light (anti-)nuclei production in p-Pb collisions at root s(NN)=5.02 TeV**  
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- XXXVI. **Measurement of prompt D-0, D+, D\*(+), and D-s(+) production in p-Pb collisions at root s(NN)=5.02 TeV**  
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JOURNAL OF HIGH ENERGY PHYSICS, vol.2019, no.12, 2019 (SCI-Expanded)
- XXXVII. **Measurement of charged jet cross section in pp collisions at root s=5.02 TeV**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsen J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., et al.  
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- XXXVIII. **Measurement of Upsilon(1S) Elliptic Flow at Forward Rapidity in Pb-Pb Collisions at root s(NN)=5.02 TeV**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsen J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., et al.  
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- XXXIX. **Coherent J/psi photoproduction at forward rapidity in ultra-peripheral Pb-Pb collisions at root s(NN)=5.02 TeV**  
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- XL. **H-3(Lambda) and (3)((Lambda)over-bar)(H)over-bar lifetime measurement in Pb-Pb collisions at root s(NN)=5.02 TeV via two-body decay**  
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- XLII. **Investigations of Anisotropic Flow Using Multiparticle Azimuthal Correlations in pp, p-Pb, Xe-Xe, and Pb-Pb Collisions at the LHC**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahmed Z., et al.  
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- XLIII. **Two-particle differential transverse momentum and number density correlations in p-Pb collisions at 5.02 TeV and Pb-Pb collisions at 2.76 TeV at the CERN Large Hadron Collider**  
Acharya S., Adamova D., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahmed Z., Ahn S. U., Aiola S., et al.  
PHYSICAL REVIEW C, vol.100, no.4, 2019 (SCI-Expanded)
- XLIV. **Study of the Lambda-Lambda interaction with femtoscopy correlations in pp and p-Pb collisions at the LHC**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahmed Z., et al.  
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- XLV. **Measurement of jet radial profiles in Pb-Pb collisions at  $\sqrt{s(NN)}=2.76$  TeV**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahmed Z., et al.  
PHYSICS LETTERS B, vol.796, pp.204-219, 2019 (SCI-Expanded)
- XLVI. **Real-time data processing in the ALICE High Level Trigger at the LHC**  
Acharya S., Acosta F. T., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Ahmed Z., et al.  
COMPUTER PHYSICS COMMUNICATIONS, vol.242, pp.25-48, 2019 (SCI-Expanded)
- XLVII. **Event-shape and multiplicity dependence of freeze-out radii in pp collisions at  $\sqrt{s}=7$  TeV**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahmed Z., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, vol.2019, no.9, 2019 (SCI-Expanded)
- XLVIII. **Production of muons from heavy-flavour hadron decays in pp collisions at  $\sqrt{s}=5.02$  TeV**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Aglieri Rinella G., Agnello M., Agrawal N., Ahmed Z., et al.  
JOURNAL OF HIGH ENERGY PHYSICS, vol.2019, no.9, 2019 (SCI-Expanded)
- XLIX. **First Observation of an Attractive Interaction between a Proton and a Cascade Baryon**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahmed Z., et al.  
PHYSICAL REVIEW LETTERS, vol.123, no.11, 2019 (SCI-Expanded)
- L. **One-dimensional charged kaon femtoscopy in p-Pb collisions at  $\sqrt{s(NN)}=5.02$  TeV**  
Acharya S., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahmed Z., et al.  
PHYSICAL REVIEW C, vol.100, no.2, 2019 (SCI-Expanded)
- L. **Multiplicity dependence of (anti-)deuteron production in pp collisions at  $\sqrt{s}=7$  TeV**  
Acharya S., Acosta F. T., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Ahmed Z., et al.  
PHYSICS LETTERS B, vol.794, pp.50-63, 2019 (SCI-Expanded)
- LI. **Lambda(+)(C) production in pb-pb collisions at  $\sqrt{s-NN}=5.02$  TeV**  
Acharya S., Acosta F. T., Adamova D., Adhya S. P., Adler A., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., et al.  
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- LII. **Analysis of the apparent nuclear modification in peripheral Pb-Pb collisions at 5.02 TeV**  
Acharya S., Acosta F. T., Adamova D., Adolfsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahmed Z.,

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PHYSICS LETTERS B, vol.793, pp.420-432, 2019 (SCI-Expanded)
- LIII. **Production of the  $\rho(770)(0)$  meson in pp and Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV**  
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PHYSICAL REVIEW C, vol.99, no.6, 2019 (SCI-Expanded)
- LIV. **Calibration of the photon spectrometer PHOS of the ALICE experiment**  
Acharya S., Acosta F. T., Adamova D., Adhya S. P., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Ahammed Z., et al.  
JOURNAL OF INSTRUMENTATION, vol.14, 2019 (SCI-Expanded)
- LV. **Measurement of D-0, D+, D+\* and D-s(+) production in pp collisions at  $\sqrt{s}=5.02$  TeV with ALICE**  
Acharya S., Acosta F. T., Adamova D., Adhya S. P., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., et al.  
EUROPEAN PHYSICAL JOURNAL C, vol.79, no.5, 2019 (SCI-Expanded)
- LVI. **Charged-particle pseudorapidity density at mid-rapidity in p-Pb collisions at  $\sqrt{s_{NN}}=8.16$  TeV**  
Acharya S., Acosta F. T., Adamova D., Adhya S. P., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Ahammed Z., et al.  
EUROPEAN PHYSICAL JOURNAL C, vol.79, no.4, 2019 (SCI-Expanded)
- LVII. **Jet fragmentation transverse momentum measurements from di-hadron correlations in  $\sqrt{s} 7$  TeV pp and  $\sqrt{s_{NN}}=5.02$  TeV p-Pb collisions**  
Acharya S., Acosta F. T., Adamova D., Adhya S. P., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., et al.  
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- LVIII. **Relative particle yield fluctuations in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV**  
Acharya S., Adamova D., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahn S. U., Aiola S., et al.  
EUROPEAN PHYSICAL JOURNAL C, vol.79, no.3, 2019 (SCI-Expanded)
- LIX. **Measuring (KSK +/-)-K-0 interactions using pp collisions at  $\sqrt{s}=7$  TeV**  
Acharya S., Acosta F. T., Adamova D., Adler A., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., et al.  
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- LX. **Centrality and pseudorapidity dependence of the charged-particle multiplicity density in Xe-Xe collisions at  $\sqrt{s_{NN}}=5.44$  TeV**  
Acharya S., Torales-Acosta F., Adamova D., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahn S. U., et al.  
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- LXI. **Upsilon suppression at forward rapidity in Pb-Pb collisions at  $\sqrt{s_{NN}}=5.02$  TeV**  
Acharya S., Acosta F. T., Adamova D., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahn S. U., et al.  
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- LXII. **Dielectron measurements in pp and Pb-Pb collisions with ALICE at the LHC**  
Bailhache R., Acharya S., Acosta F. T., Adamova D., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., et al.  
NUCLEAR PHYSICS A, vol.982, pp.779-782, 2019 (SCI-Expanded)
- LXIII. **Investigating correlated fluctuations of conserved charges with net-A fluctuations in Pb-Pb collisions at ALICE**  
Ohlson A., Acharya S., Acosta F. T., Adamova D., Adolphsson J., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., et al.  
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- LXIV. **Event-Shape Engineering for the D-meson elliptic flow in mid-central Pb-Pb collisions at  $\sqrt{s_{NN}}=5.02$  TeV**

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JOURNAL OF HIGH ENERGY PHYSICS, vol.2019, no.2, 2019 (SCI-Expanded)

- LXV. **Non-strange and strange D-meson and charm-baryon production in heavy-ion collisions measured with ALICE at the LHC**  
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- LXVI. **p-p, p-Lambda, and Lambda-Lambda correlations studied via femtoscopy in pp reactions at root s=7 TeV**  
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- LXVII. **Measurements of anisotropic flow and flow fluctuations in Xe-Xe and Pb-Pb collisions with ALICE**  
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- CLVII.  **$K^*(892)(0)$  and  $\phi(1020)$  meson production at high transverse momentum in pp and Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV**  
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- CLXXII. **Measurement of transverse energy at midrapidity in Pb-Pb collisions at root s(NN)=2.76 TeV**  
Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Aiola S., et al.  
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- CLXXIII. **Elliptic flow of electrons from heavy-flavour hadron decays at mid-rapidity in Pb-Pb collisions at root s(NN)=2.76 TeV**  
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- CLXXVI. **Multi-strange baryon production in p-Pb collisions at root(NN)-N-S=5.02 TeV**  
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Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Aiola S., et al.



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CLXXIX. **Centrality Dependence of the Charged-Particle Multiplicity Density at Midrapidity in Pb-Pb Collisions at  $\sqrt{s_{NN}}=5.02$  TeV**

Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Aiola S., et al.

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CLXXX. **Particle identification in ALICE: a Bayesian approach**

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CLXXXI. **Multipion Bose-Einstein correlations in pp, p-Pb, and Pb-Pb collisions at energies available at the CERN Large Hadron Collider**

Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Aiola S., et al.

PHYSICAL REVIEW C, vol.93, no.5, 2016 (SCI-Expanded)

CLXXXII. **Centrality dependence of charged jet production in p-Pb collisions at  $\sqrt{s_{NN}}=5.02$  TeV**

Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Aiola S., et al.

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CLXXXIII. **Differential studies of inclusive J/psi and psi (2S) production at forward rapidity in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV**

Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahn S. U., Aimo I., Aiola S., et al.

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CLXXXIV. **Anisotropic Flow of Charged Particles in Pb-Pb Collisions at  $\sqrt{s_{NN}}=5.02$  TeV**

Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Aiola S., et al.

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CLXXXV. **Charge-dependent flow and the search for the chiral magnetic wave in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV**

Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahn S. U., Aiola S., Akindinov A., et al.

PHYSICAL REVIEW C, vol.93, no.4, 2016 (SCI-Expanded)

CLXXXVI. **Inclusive quarkonium production at forward rapidity in pp collisions at  $\sqrt{s}=8$  TeV**

Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahn S. U., Aiola S., Akindinov A., et al.

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CLXXXVII. **Production of  $K^*(892)(0)$  and  $\phi(1020)$  in p-Pb collisions at  $\sqrt{s_{NN}}=5.02$  TeV**

Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahmad S., Ahn S. U., Aiola S., et al.

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LXXXVIII.  **$(3)(\Lambda)_{\text{Hand}}(3)((\Lambda)_{\text{over-bar}})(H)_{\text{over-bar}}$  production in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV**

Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahn S. U., Aimo I., Aiola S., et al.

PHYSICS LETTERS B, vol.754, pp.360-372, 2016 (SCI-Expanded)

CLXXXIX. **Centrality evolution of the charged-particle pseudorapidity density over a broad pseudorapidity range in Pb-Pb collisions at  $\sqrt{s_{NN}}=2.76$  TeV**

Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahn S. U., Aiola S., Akindinov A., et al.

PHYSICS LETTERS B, vol.754, pp.373-385, 2016 (SCI-Expanded)

- CXC. **Centrality dependence of the nuclear modification factor of charged pions, kaons, and protons in Pb-Pb collisions at  $\sqrt{s(NN)}=2.76$  TeV**  
Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahn S. U., Aimo I., Aiola S., et al.  
PHYSICAL REVIEW C, vol.93, no.3, 2016 (SCI-Expanded)
- CXCII. **Transverse momentum dependence of D-meson production in Pb-Pb collisions at  $\sqrt{s(NN)}=2.76$  TeV**  
Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahn S. U., Aiola S., Akhmedov A., et al.  
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- CXCIII. **Direct photon production in Pb-Pb collisions at  $\sqrt{s(NN)}=2.76$  TeV**  
Adam J., Adamova D., Aggarwal M. M., Rinella G. A., Agnello M., Agrawal N., Ahammed Z., Ahn S. U., Aiola S., Akhmedov A., et al.  
PHYSICS LETTERS B, vol.754, pp.235-248, 2016 (SCI-Expanded)
- CXCIV. **Measurement of D-s(+) production and nuclear modification factor in Pb-Pb collisions at  $\sqrt{s(NN)}=2.76$  TeV**  
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**:CLXXXIV. Particle-Yield Modification in Jetlike Azimuthal Dihadron Correlations in Pb-Pb Collisions at root  $S-NN=2.76$  TeV**

Aamodt K., Abelev B., Abrahantes Quintana A., Adamova D., Adare A. M., Aggarwal M. M., Rinella G. A., Agocs A. G., Agostinelli A., Aguilar Salazar S., et al.

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**CCLXXXV. Measurement of charm production at central rapidity in proton-proton collisions at root  $s=7$  TeV**

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Nesher E., Peskov V., Rylova A., Raz O., Pinhasov A.

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Peskov V., Martinengo P., Nappi E., Oliveira R., Pietropaolo P., Picchi P.

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**CCXCIII. Femtoscopy of pp collisions at root  $s=0.9$  and 7 TeV at the LHC with two-pion Bose-Einstein correlations**

Aamodt K., Abrahantes Quintana A., Adamova D., Adare A. M., Aggarwal M. M., Rinella G. A., Agocs A. G., Salazar S. A., Ahammed Z., Ahmad N., et al.

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## Metrics

Publication: 485

Citation (WoS): 4228

Citation (Scopus): 23859

H-Index (WoS): 34

H-Index (Scopus): 79