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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**
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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 $S\text{-NN}=5.02$ 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 $s=13$ TeV**
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VIII. **J/psi elliptic and triangular flow in Pb-Pb collisions at $\sqrt{s(NN)}=5.02$ TeV**

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

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

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

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

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

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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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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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- XXIV. Global polarization of Lambda and (Lambda)over-bar hyperons in Pb-Pb collisions at root s(NN)=2.76 and 5.02 TeV**
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- XXX. **Measurement of strange baryon-antibaryon interactions with femtoscopic correlations**
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- CXXXV. **Systematic studies of correlations between different order flow harmonics in Pb-Pb collisions at $\sqrt{s(NN)}=2.76 \text{ TeV}$**
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- CLXXVIII. **Centrality dependence of (sic)(2S) suppression in p-Pb collisions at root s(NN)=5.02 TeV**
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CLXXX. **Particle identification in ALICE: a Bayesian approach**

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

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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**

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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**

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

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

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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**

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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**

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- CXCII. **Transverse momentum dependence of D-meson production in Pb-Pb collisions at $\sqrt{s(NN)}=2.76$ TeV**
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- 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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- CXCV. **Event-shape engineering for inclusive spectra and elliptic flow in Pb-Pb collisions at $\sqrt{s(NN)}=2.76$ TeV**
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- CXCVI. **Measurement of electrons from heavy-flavour hadron decays in p-Pb collisions at $\sqrt{s(NN)}=5.02$ TeV**
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- CC. **Production of light nuclei and anti-nuclei in pp and Pb-Pb collisions at energies available at the CERN Large Hadron Collider**
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- CCI. **Forward-central two-particle correlations in p-Pb collisions at root s(NN)=5.02 TeV**
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- CCII. **Elliptic flow of muons from heavy-flavour hadron decays at forward rapidity in Pb-Pb collisions at root s(NN)=2.76TeV**
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CCXIII. Measurement of jet quenching with semi-inclusive hadron-jet distributions in central Pb-Pb collisions at root s(NN)=2.76 TeV

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CCXV. Elliptic flow of identified hadrons in Pb-Pb collisions at root(NN)-N-s=2.76 Tev

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CCXVI. Rapidity and transverse-momentum dependence of the inclusive J/psi nuclear modification factor in p-Pb collisions at root s(NN)=5.02 TeV

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CCXVII. Measurement of dijet k(T) in p-Pb collisions at root s(NN)=5.02 TeV

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CCXVIII. Charged jet cross sections and properties in proton-proton collisions at root s=7 TeV

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CCXIX. Measurement of jet suppression in central Pb-Pb collisions at root s(NN)=2.76 TeV

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CCXX. Centrality dependence of particle production in p-Pb collisions at root s(NN)=5.02 TeV

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CCXXI. Forward-backward multiplicity correlations in pp collisions at root s=0.9, 2.76 and 7 TeV

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CCXXII. Measurement of pion, kaon and proton production in proton-proton collisions at root s=7 TeV

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CCXXIII. Inclusive photon production at forward rapidities in proton-proton collisions at root s=0.9, 2.76 and 7 TeV

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- CCXXVI. **$K^*(892)(0)$ and $\phi(1020)$ production in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76$ TeV**
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- CCXXVII. **Measurement of electrons from semileptonic heavy-flavor hadron decays in pp collisions at $\sqrt{s}=2.76$ TeV**
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- CCXXX. **Freeze-out radii extracted from three-pion cumulants in pp, p-Pb and Pb-Pb collisions at the LHC**
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- CCXXXI. **VHMPID RICH prototype using pressurized C4F8O radiator gas and VUV photon detector**
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- CCXXXIII. **Exclusive J/ ψ Photoproduction off Protons in Ultraperipheral p-Pb Collisions at $\sqrt{s_{NN}}=5.02$ TeV**
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- CCXXXV. **Demonstration of new possibilities of multilayer technology on resistive microstrip/microdot**

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- CCXXXVI. **Beauty production in pp collisions at $\sqrt{s}=2.76$ TeV measured via semi-electronic decays**
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- CCXXXVIII. **Multiparticle azimuthal correlations in p-Pb and Pb-Pb collisions at the CERN Large Hadron Collider**
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- CCXXXIX. **Event-by-event mean $p(T)$ fluctuations in pp and Pb-Pb collisions at the LHC**
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- CCXL. **Neutral pion production at midrapidity in pp and Pb-Pb collisions at $\sqrt{s(NN)}=2.76$ TeV**
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- CCXLV. **A very high momentum particle identification detector**
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- CCXLVII. **R&D studies of a RICH detector using pressurized C4F8O radiator gas and a CsI-based gaseous photon detector**

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CCXLVIII. Development of a new generation of micropattern gaseous detectors for high energy physics, astrophysics and environmental applications

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CCXLIX. Centrality determination of Pb-Pb collisions at root $s(NN)=2.76$ TeV with ALICE

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CCL. Centrality dependence of pi, K, and p production in Pb-Pb collisions at root $s(NN)=2.76$ TeV

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CCLI. Measurement of inelastic, single- and double-diffraction cross sections in proton-proton collisions at the LHC with ALICE

Abelev B., Adam J., Adamova D., Adare A. M., Aggarwal M. M., Rinella G. A., Agocs A. G., Agostinelli A., Aguilar Salazar S., Ahammed Z., et al.

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CCLII. Charge correlations using the balance function in Pb-Pb collisions at root $s(NN)=2.76$ TeV

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CCLIII. Measurement of the inclusive differential jet cross section in pp collisions at root $s=2.76$ TeV

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CCLIV. Net-Charge Fluctuations in Pb-Pb Collisions at root $s(NN)=2.76$ TeV

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CCLV. Measurement of electrons from beauty hadron decays in pp collisions at root $s=7$ TeV

Abelev B., Adam J., Adamova D., Adare A. M., Aggarwal M. M., Rinella G. A., Agocs A. G., Agostinelli A., Salazar S. A., Ahammed Z., et al.

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CCLVI. Centrality dependence of charged particle production at large transverse momentum in Pb-Pb collisions at root $s(NN)=2.76$ TeV

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CCLVII. Charged kaon femtoscopic correlations in pp collisions at root $s=7$ TeV

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CCLVIII. Transverse Momentum Distribution and Nuclear Modification Factor of Charged Particles in p plus Pb Collisions at root $(NN)-N-s=5.02$ TeV

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- CCLIX. **Long-range angular correlations on the near and away side in p-Pb collisions at root S-NN=5.02 TeV**
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- CCLX. **Anisotropic flow of charged hadrons, pions and (anti-)protons measured at high transverse momentum in Pb-Pb collisions at root S-NN=2.76 TeV**
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- CCLXI. **Charge separation relative to the reaction plane in Pb-Pb collisions at root s(NN)=2.76 TeV**
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- CCLXII. **Pseudorapidity Density of Charged Particles in p plus Pb Collisions at root s(NN)=5.02 TeV**
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- CCLXIII. **Coherent J/psi photoproduction in ultra-peripheral Pb-Pb collisions at root s(NN)=2.76 TeV**
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- CCLXIV. **D-S(+) meson production at central rapidity in proton-proton collisions at root s=7 TeV**
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