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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

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IV. Production of omega mesons in pp collisions at 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-NN=5.02 TeV

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VI. Multiplicity dependence of inclusive J/psi production at midrapidity in pp collisions at root s=13 TeV

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- CLXXX. **Particle identification in ALICE: a Bayesian approach**
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- CLXXXIII. **Differential studies of inclusive J/psi and psi (2S) production at forward rapidity in Pb-Pb collisions at root s(NN)=2.76 TeV**
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- CXCI. **Transverse momentum dependence of D-meson production in Pb-Pb collisions at root S>NN=2.76 TeV**
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- CXCIII. **Measurement of D-s(+) product ion and nuclear modification factor in Pb-Pb collisions at root S>NN=2.76 TeV**
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- CXCIV. **Event-shape engineering for inclusive spectra and elliptic flow in Pb-Pb collisions at root(NN)-N-S=2.76 TeV**
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- CXCV. **Measurement of electrons from heavy-flavour hadron decays in p-Pb collisions at root s(NN)=5.02 TeV**
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- CXCVIII. **Multiplicity and transverse momentum evolution of charge-dependent correlations in pp, p-Pb, and Pb-Pb collisions at the LHC**
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- CXCIX. **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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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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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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CCLXXXVIII. **Heavy flavour decay muon production at forward rapidity in proton-proton collisions at root s=7 TeV**

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CCXCI. **Advances in the development of micropattern gaseous detectors with resistive electrodes**

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Metrics

Publication: 485
Citation (WoS): 4228
Citation (Scopus): 23859
H-Index (WoS): 34
H-Index (Scopus): 79