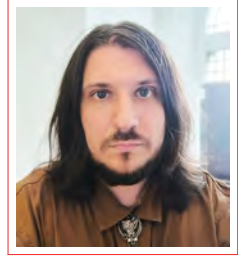


Giovanni Malfattore

Curriculum Vitae

DIFA & INFN Bologna, BO, Italy
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LinkedIn: giovannimalfattore



Personal information

Born 17th March, 1991 at Spilimbergo (Italy)
Citizenship Italian

Education

- 2018-2021 **Master's degree in Nuclear and Subnuclear Physics**, *Università degli Studi di Trieste*, Trieste, Italy.
Mark: 110/110
Supervisor: Dr. Ramona Lea
Assistant supervisor: Prof. Paolo Camerini
Title: *Search for P_S^\pm pentaquarks produced in ultra-relativistic collisions with ALICE at LHC*
- 2011-2018 **Bachelor's degree in Physics**, *Università degli Studi di Trieste*, Trieste, Italy.
Mark: 100/110
Supervisor: Prof. Rinaldo Rui
Assistant supervisor: Dr. Ramona Lea
Title: *Studio della produzione del mesone $K^*(892)^\pm$ in collisioni pp a $\sqrt{s} = 7$ TeV*
- 2005-2010 **Scientific High School Diploma**, *Liceo Scientifico Statale "N.Copernico"*, Udine, Italy.
National Plan of Computer studies (P.N.I.) experimental curriculum
Mark: 86/100

Research

- 2021-present **Ph.D. in Physics**, *Alma Mater Studiorum - Università di Bologna*, Bologna, Italy.
Supervisor: Prof. Francesca Bellini
Assistant supervisor: Dr. Nicolò Jacazio
Title: *Measurement of (anti)helium production with ALICE at the LHC for indirect dark matter searches in cosmic rays*
- 03-2024 - **Visiting Doctoral Researcher**, *Goethe-Universität Frankfurt*, Frankfurt-am-Main, Germany.
05-2024
- 07-2023 - **Visiting Doctoral Researcher**, *CERN - European Organization of Nuclear Research*, Geneva, Switzerland.
09-2023

Schools

- 07-2022 **ISSP EMFCSC**, *58th Course of the International School of Subnuclear Physics*, Erice, Italy.
Poster: *Antinuclei from the laboratory to the Cosmos: getting ready for the LHC Run 3*
- 08-2023 **CERN-Fermilab HCP**, *18th joint CERN-Fermilab Hadron Collider Physics Summer School*, Geneva, Switzerland.

Memberships

2020-present **Associated membership | The ALICE Experiment, CERN - European Organization of Nuclear Research, Geneva, Switzerland.**

The primary topic of the research is in the ALICE *Nuclei, Spectra and Exotica* Physics Analysis Group and my primary topic is the study of light (anti)nuclei - in particular ${}^3\overline{\text{He}}$ and $\overline{\text{d}}$ - in the LHC Run 3 data.

I have been responsible for the asynchronous quality control for the entire collaboration on the data collected as part of my ALICE Service Task.

Furthermore, I am member of the ALICE Time-Of-Flight group based in Bologna, so part of my expertise is the maintenance of the Time-Of-Flight (TOF) sub-detector and I serve as TOF on-call expert.

In addition to the shifts as TOF expert, during LHC data taking periods I also serve as a DCS shifter, ECS shifter and Shift Leader in the ALICE Control Room.

2020-present **Membership, INFN - Istituto Nazionale di Fisica Nucleare, Italy.**

Conferences

- 09-2022 **SIF2022**, 108^o Congresso nazionale della Società Italiana di Fisica, Milano, Italy.
Contributed talk: *Identification and prospects for light (anti)nuclei measurements with the upgraded ALICE detector at the LHC Run 3*
- 11-2022 **LHCC**, CERN - European Organization of Nuclear Research, Geneva, Switzerland.
Poster: (With Francesca Ercolessi) *The ALICE TOF system in continuous readout: Commissioning - Online data quality monitoring - PID performance*
- 06-2023 **HADRON2023**, 20th International Conference on Hadron Spectroscopy and Structure, Genova, Italy.
Contributed talk: *Constraining the formation mechanism of light (anti)nuclei at the LHC and Application for cosmic ray physics*
- 09-2023 **QM2023**, Quark Matter 2023 - XXXth International Conference on Ultra-relativistic Nucleus-Nucleus Collisions, Houston, TX, USA.
Poster: *Measurements of (anti)nuclei in pp collision at $\sqrt{s} = 13$ TeV*
- 11-2023 **LHCC**, CERN - European Organization of Nuclear Research, Geneva, Switzerland.
Poster: *Nuclei measurements in Run 3 with ALICE*
- 02-2024 **INFN2024**, VI Convegno nazionale Istituto di Fisica Nucleare, Trento, Italy.
Contributed talk: *Constraining the formation mechanisms of light (anti)nuclei at the LHC and applications for cosmic ray physics*
- 08-2024 **EXA/LEAP2024**, International Conference on Exotic Atoms and Related Topics and conference on Low Energy Antiprotons, Vienna, Austria.
Contributed talk: *Cosmic $\overline{\text{d}}$ and $\overline{\text{He}}$: production mechanisms and latest constraints from ALICE at the LHC*

Personal skills

Computer skills

O.S.	Microsoft Windows, Linux, MacOS	Languages	C, C++, Python, Fortran, shell scripting
Scientific tools	ROOT, AliPhysics, O2Physics, PYTHIA, Thermal-FIST	Data Acquisition	LabVIEW
Text editors	Office packages, L ^A T _E X	Others	Adobe Photoshop, GitHub, GitLab

Languages

Italian Mother Tongue

English Advanced

Other skills

Photography Digital and analogue shooting. Advanced digital editing (Photoshop, Lightroom, Capture One). B/W film negative development.

Driving B
licence

Additional information

Scholarships

2018-2021 ARDISS FVG Scholarship

Outreach activities

2023-present **CERN Official Guide**, *CERN - European Organization of Nuclear Research*, Geneva, Switzerland.

Trained guide for: ALICE Exhibition, ALICE Cavern, SM18 Facility, SC Exhibition, CERN Control Centre

03-2023 **ALICE Masterclass 2023**, *Accademia delle scienze dell'Istituto di Bologna*, Bologna, Italy.

Lecturer and laboratory assistant

Teaching activities

10-2023 - **Didactic Tutor**, *University of Bologna*, Bologna, Italy.

03-2024 Fisica Generale T-A, sdoppiamento L-Z (Bachelor Degree in Management Engineering)

Publications

Constraining the formation mechanisms of light (anti)nuclei at the LHC and applications for cosmic ray physics, *G. Malfattore on behalf of the ALICE Collaboration*.

Il Nuovo Cimento C, HADRON2023 - Vol. 47, N. 4 (2024)

Measurements of the Cherenkov effect in direct detection of charged particles with SiPMs, *F. Carnesecchi, B. Sabiu, S. Strazzi, G. Vignola, N. Agrawal, A. Alici, P. Antonioli, S. Arcelli, F. Bellini, D. Cavazza, L. Cifarelli, M. Colocci, S. Durando, F. Ercolessi, D. Fldchieri, A. Ficorella, C. Fraticelli, M. Garbini, M. Giacalone, A. Gola, D. Hatzifotiadou, N. Jacazio, A. Margotti, G. Malfattore, R. Nania, F. Noferini, G. Paternoster, O. Pinazza, R. Preghenella, R. Rath, R. Ricci, L. Rignanese, N. Rubini, E. Scapparone, G. Scioli, A. Zichichi*.

Eur.Phys.J.Plus 138, 788 (2023)

Understanding the direct detection of charged particles with SiPMs, *F. Carnesecchi, G. Vignola, N. Agrawal, A. Alici, P. Antonioli, S. Arcelli, F. Bellini, D. Cavazza, L. Cifarelli, M. Colocci, S. Durando, F. Ercolessi, A. Ficorella, C. Fraticelli, M. Garbini, M. Giacalone, A. Gola, D. Hatzifotiadou, N. Jacazio, A. Margotti, G. Malfattore, R. Nania, F. Noferini, G. Paternoster, O. Pinazza, R. Preghenella, R. Rath, R. Ricci, L. Rignanese, N. Rubini, B. Sabiu, E. Scapparone, G. Scioli, S. Strazzi, S. Tripathy, A. Zichichi*.

Eur.Phys.J.Plus 138 (2023) 4, 337

Direct detection of charged particles with SiPMs, *Carnesecchi, F.; Agrawal, N.; Alici, A.; Arcelli, S.; Bellini, F.; Cifarelli, L.; Colocci, M.; Ercolessi, F.; Garbini, M.; Giacalone, M.; Jacazio, N.; Malfattore, G.; Noferini, F.; Pinazza, O.; Preghenella, R.; Rignanese, L.; Rubini, N.; Scioli, G.; Strazzi, S.; Zichichi, A.*

JINST 17 (2022) 06, P06007

Publications as member of the ALICE collaboration

Measurement of Ω_c^0 baryon production and branching-fraction ratio $\text{BR}(\Omega_c^0 \rightarrow \Omega^- e^+ \nu_e) / \text{BR}(\Omega_c^0 \rightarrow \Omega^- \pi^+)$ in pp collisions at $\sqrt{s} = 13$ TeV, *Acharya, S. et al. (ALICE Collaboration)*.

Phys.Rev.D 110 (2024) 3, 032014

Systematic study of flow vector fluctuations in $\sqrt{s_{NN}} = 5.02$ TeV Pb-Pb collisions, *Acharya, S. et al. (ALICE Collaboration)*.

Phys. Rev. C 109 (2024) 6, 065202

Studying the interaction between charm and light-flavor mesons, *Acharya, S. et al. (ALICE Collaboration)*.

Phys. Rev. D 110 (2024) 3, 032004

Investigating the composition of the $K_0^*(700)$ state with $\pi^\pm K_S^0$ correlations at the LHC, *Acharya, S. et al. (ALICE Collaboration)*.

Phys. Lett. B 856 (2024), 138915

Systematic study of flow vector fluctuations in $\sqrt{s_{NN}} = 5.02$ TeV Pb-Pb collisions, *Acharya, S. et al. (ALICE Collaboration)*.

Phys.Rev.C 109 (2024) 6, 065202

Emergence of Long-Range Angular Correlations in Low-Multiplicity Proton-Proton Collisions, Acharya, S. et al. (*ALICE Collaboration*).
 Phys.Rev.Lett. 132 (2024) 17, 172302

Observation of abnormal suppression of $f_0(980)$ production in p–Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (*ALICE Collaboration*).
 Phys.Lett.B 853 (2024) 138665

Photoproduction of $K+K^-$ Pairs in Ultraperipheral Collisions, Acharya, S. et al. (*ALICE Collaboration*).
 Phys.Rev.Lett. 132 (2024) 22, 222303

Light-flavor particle production in high-multiplicity pp collisions at $\sqrt{s} = 13$ TeV as a function of transverse sphericity, Acharya, S. et al. (*ALICE Collaboration*).
 JHEP 05 (2024) 184

Charged-particle production as a function of the relative transverse activity classifier in pp, p–Pb, and Pb–Pb collisions at the LHC, Acharya, S. et al. (*ALICE Collaboration*).
 JHEP 01 (2024) 199

Femtoscopic correlations of identical charged pions and kaons in pp collisions at $\sqrt{s} = 13$ TeV with event-shape selection, Acharya, S. et al. (*ALICE Collaboration*).
 Phys.Rev.C 109 (2024) 2, 024915

Multiplicity and event-scale dependent flow and jet fragmentation in pp collisions at $\sqrt{s} = 13$ TeV and in p–Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (*ALICE Collaboration*).
 JHEP 03 (2024) 092

Measurements of long-range two-particle correlation over a wide pseudorapidity range in p–Pb collisions at $\sqrt{s_{NN}} = 5.0$ TeV, Acharya, S. et al. (*ALICE Collaboration*).
 JHEP 01 (2024) 199

Probing the chiral magnetic wave with charge-dependent flow measurements in Pb-Pb collisions at the LHC, Acharya, S. et al. (*ALICE Collaboration*).
 JHEP 12 (2023) 067

Prompt and non-prompt J/ψ production at midrapidity in Pb–Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (*ALICE Collaboration*).
 JHEP 02 (2024) 066

$K^*(892)^\pm$ resonance production in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (*ALICE Collaboration*).
 Phys.Rev.C 109 (2024) 4, 044902

Multiplicity-dependent production of $\Sigma(1385)^\pm$ and $\Xi(1530)^0$ in pp collisions at $\sqrt{s} = 13$ TeV, Acharya, S. et al. (*ALICE Collaboration*).
 JHEP 05 (2024) 317

Skewness and kurtosis of mean transverse momentum fluctuations at the LHC energies, Acharya, S. et al. (*ALICE Collaboration*).
 Phys.Lett.B 850 (2024) 138541

Measurements of jet quenching using semi-inclusive hadron+jet distributions in pp and central Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.C 110 (2024) 1, 014906

Observation of Medium-Induced Yield Enhancement and Acoplanarity Broadening of Low-pT Jets from Measurements in pp and Central Pb-Pb Collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.Lett. 133 (2024) 2, 022301

Search for jet quenching effects in high-multiplicity pp collisions at $\sqrt{s} = 13$ TeV via di-jet acoplanarity, Acharya, S. et al. (ALICE Collaboration).

JHEP 05 (2024) 229

System-size dependence of the hadronic rescattering effect at energies available at the CERN Large Hadron Collider, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.C 109 (2024) 1, 014911

Study of flavor dependence of the baryon-to-meson ratio in proton-proton collisions at $\sqrt{s} = 13$ TeV, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.D 108 (2023) 11, 112003

Charm production and fragmentation fractions at midrapidity in pp collisions at $\sqrt{s} = 13$ TeV, Acharya, S. et al. (ALICE Collaboration).

JHEP 12 (2023) 086

Measurement of non-prompt D^0 -meson elliptic flow in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

Eur.Phys.J.C 83 (2023) 12, 1123

Modification of charged-particle jets in event-shape engineered Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

Phys.Lett.B 851 (2024) 138584

Measurement of inclusive charged-particle jet production in pp and p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

PJHEP 05 (2024) 041

Pseudorapidity dependence of anisotropic flow and its decorrelations using long-range multiparticle correlations in Pb-Pb and Xe-Xe collisions, Acharya, S. et al. (ALICE Collaboration).

Phys.Lett.B 850 (2024) 138477, Phys.Lett.B 853 (2024) 138659 (erratum)

Measurement of the low-energy antitriton inelastic cross section, Acharya, S. et al. (ALICE Collaboration).

Phys.Lett.B 848 (2024) 138337

Energy dependence of coherent photonuclear production of J/ψ mesons in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

JHEP 10 (2023) 119

Accessing the strong interaction between Λ baryons and charged kaons with the femtoscopy technique at the LHC, Acharya, S. et al. (ALICE Collaboration).

Phys.Lett.B 845 (2023) 138145

First Measurement of the $|t|$ Dependence of Incoherent J/ψ Photonuclear Production, Acharya, S. et al. (*ALICE Collaboration*).
 Phys.Rev.Lett. 132 (2024) 16, 162302

Exclusive and dissociative J/ψ photoproduction, and exclusive dimuon production, in p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV, Acharya, S. et al. (*ALICE Collaboration*).
 Phys.Rev.D 108 (2023) 11, 112004

Data-driven precision determination of the material budget in ALICE, Acharya, S. et al. (*ALICE Collaboration*).
 JINST 18 (2023) 11, P11032

Measurement of inclusive J/ψ pair production cross section in pp collisions at $\sqrt{s} = 13$ TeV, Acharya, S. et al. (*ALICE Collaboration*).
 Phys.Rev.C 108 (2023) 4, 045203

Study of the p-p- K^+ and p-p- K^- dynamics using the femtoscopy technique, Acharya, S. et al. (*ALICE Collaboration*).
 Eur.Phys.J.A 59 (2023) 12, 298

Inclusive and multiplicity dependent production of electrons from heavy-flavour hadron decays in pp and p-Pb collisions, Acharya, S. et al. (*ALICE Collaboration*).
 JHEP 08 (2023) 006

Measurements of inclusive J/ψ production at midrapidity and forward rapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (*ALICE Collaboration*).
 Phys.Lett.B 849 (2024) 138451

Higher-order correlations between different moments of two flow amplitudes in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (*ALICE Collaboration*).
 Phys.Rev.C 108 (2023) 5, 055203

Measurement of the radius dependence of charged-particle jet suppression in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (*ALICE Collaboration*).
 Phys.Lett.B 849 (2024) 138412

Measurement of the non-prompt D-meson fraction as a function of multiplicity in proton-proton collisions at $\sqrt{s} = 13$ TeV, Acharya, S. et al. (*ALICE Collaboration*).
 JHEP 10 (2023) 092

ALICE upgrades during the LHC Long Shutdown 2, Acharya, S. et al. (*ALICE Collaboration*).
 JINST 19 (2024) 05, P05062

Measurement of the fraction of jet longitudinal momentum carried by Λ_c+ baryons in pp collisions, Acharya, S. et al. (*ALICE Collaboration*).
 Phys.Rev.D 109 (2024) 7, 072005

Production of pions, kaons, and protons as a function of the relative transverse activity classifier in pp collisions at $\sqrt{s} = 13$ TeV, Acharya, S. et al. (*ALICE Collaboration*).
 JHEP 06 (2023) 027

First measurement of prompt and non-prompt D^{*+} vector meson spin alignment in pp collisions at $\sqrt{s} = 13$ TeV, Acharya, S. et al. (ALICE Collaboration).

Phys.Lett.B 846 (2023) 137920

Pseudorapidity densities of charged particles with transverse momentum thresholds in pp collisions at $\sqrt{s} = 5.02$ and 13 TeV, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.D 108 (2023) 7, 072008

Multiplicity dependence of charged-particle production in pp, p-Pb, Xe-Xe and Pb-Pb collisions at the LHC, Acharya, S. et al. (ALICE Collaboration).

Phys.Lett.B 845 (2023) 138110

Investigation of $K+K^-$ interactions via femtoscopy in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV at the CERN Large Hadron Collider, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.C 107 (2023) 5, 054904

Measurement of electrons from beauty-hadron decays in pp and Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.C 108 (2023) 3, 034906

Measurements of azimuthal anisotropies at forward and backward rapidity with muons in high-multiplicity p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV, Acharya, S. et al. (ALICE Collaboration).

Phys.Lett.B 846 (2023) 137782

$\psi(2S)$ Suppression in Pb-Pb Collisions at the LHC, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.Lett. 132 (2024) 4, 042301

Measurements of Groomed-Jet Substructure of Charm Jets Tagged by D^0 Mesons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.Lett. 131 (2023) 19, 192301

$f_0(980)$ production in inelastic pp collisions at $\sqrt{s} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

Phys.Lett.B 846 (2023) 137644

Observation of flow angle and flow magnitude fluctuations in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV at the CERN Large Hadron Collider, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.C 107 (2023) 5, L051901

Closing in on critical net-baryon fluctuations at LHC energies: Cumulants up to third order in Pb-Pb collisions, Acharya, S. et al. (ALICE Collaboration).

Phys.Lett.B 844 (2023) 137545

$\Sigma(1385)^\pm$ resonance production in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

Eur.Phys.J.C 83 (2023) 5, 351

Anisotropic flow and flow fluctuations of identified hadrons in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

JHEP 05 (2023) 243

Azimuthal correlations of heavy-flavor hadron decay electrons with charged particles in pp and p–Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

Eur.Phys.J.C 83, 741 (2023)

Constraining the $\bar{K}N$ coupled channel dynamics using femtoscopic correlations at the LHC, Acharya, S. et al. (ALICE Collaboration).

Eur.Phys.J.C 83 (2023) 4, 340

Enhanced Deuteron Coalescence Probability in Jets, Acharya, S. et al. (ALICE Collaboration).

Phys. Rev. Lett. 131, 042301

First measurement of $\Lambda c+$ production down to $p_T = 0$ in pp and p–Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.C 107 (2023) 6, 064901

Inclusive photon production at forward rapidities in pp and p–Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

Eur. Phys. J. C 83, 661 (2023)

J/ψ production at midrapidity in p–Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV, Acharya, S. et al. (ALICE Collaboration).

J. High Energ. Phys. 2023, 137 (2023)

Jet-like correlations with respect to K_S^0 and Λ ($\bar{\Lambda}$) in pp and Pb–Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

Eur.Phys.J.C 83 (2023) 6, 497

Light (anti)nuclei production in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.C 107 (2023) 6, 064904

Measurement of the angle between jet axes in pp collisions at $\sqrt{s} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

J. High Energ. Phys. 2023, 201 (2023)

Measurement of the Lifetime and Λ Separation Energy of ${}^3_\Lambda\text{H}$, Acharya, S. et al. (ALICE Collaboration).

Phys. Rev. Lett. 131, 102302

Neutron emission in ultraperipheral Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.C 107 (2023) 6, 064902

Observation of flow angle and flow magnitude fluctuations in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV at the CERN Large Hadron Collider, Acharya, S. et al. (ALICE Collaboration).

Phys.Rev.C 107 (2023) 5, L051901

Performance of the ALICE Electromagnetic Calorimeter, Acharya, S. et al. (ALICE Collaboration).

JINST 18 P08007

Production of K_S^0 , Λ ($\bar{\Lambda}$), Σ^\pm and Ω^\pm in jets and in the underlying event in pp and p–Pb collisions, Acharya, S. et al. (ALICE Collaboration).

J. High Energ. Phys. 2023, 136 (2023)

Symmetry plane correlations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV, Acharya, S. et al. (*ALICE Collaboration*).

Eur.Phys.J.C 83 (2023) 7, 576

Towards the understanding of the genuine three-body interaction for p-p-p and p-p- Λ , Acharya, S. et al. (*ALICE Collaboration*).

Eur.Phys.J.A 59 (2023) 7, 145

Two-particle transverse momentum correlations in pp and p-Pb collisions at LHC energies, Acharya, S. et al. (*ALICE Collaboration*).

Phys.Rev.C 107 (2023) 5, 054617

Production of pions, kaons, and protons as a function of the relative transverse activity classifier in pp collisions at $\sqrt{s} = 13$ TeV, Acharya, S. et al. (*ALICE Collaboration*).

JHEP 06 (2023) 027

Measurement of the angle between jet axes in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Acharya, S. et al. (*ALICE Collaboration*).

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