

Dr. Aditya Nath Mishra

🏠 **Assistant Professor**
Department of Physics
C. M. Science College
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PERSONAL DETAILS

Date of Birth 27 November, 1985
Current Address House No. A-4,
Mathura Veda Apartment, Rajkumarganj
Darbhanga-846004, Bihar
Permanent Address House No. 19,
Street No. 2, Nagpal Colony
Sri Ganganagar, Rajasthan-335001
Nationality Indian

EDUCATION

2012 - 2016 **Doctor of Philosophy in Physics (Ph.D.)**
Supervisor: Prof. Raghunath Sahoo
Indian Institute of Technology Indore, Indore, India
Title: Multiparticle production using effective-energy approach and inclusive photon production in high-energy Pb+Pb collisions at 2.76 TeV in ALICE experiment at LHC.
2008 - 2009 **Bachelor of Education (B.Ed.)**
PHYSICS AND MATHS with *IstClass*
University of Bikaner, India
2005 - 2007 **Master of Science (M.Sc.)**
PHYSICS with *IstClass*
University of Bikaner, Rajasthan, India

TEACHING EXPERIENCE : 3 YEARS AND 11 MONTHS

2022 - 2023 **Assistant Professor**
REVA University, Bangalore, Karnataka, India
2023 - 2024 **Assistant Professor**
Chandigarh University, Mohali, Punjab, India
2024 - 2025 **Assistant Professor**
C. M. Science College, LNMU, Darbhanga, Bihar, India

AWARDS

1. **Candidate Level Researcher Fellow award**
JANUARY 2019
Sistema Nacional de Investigadores (SNI), Mexico
2. **Junior Research Fellow (All India Rank 037)**
JUNE, 2010
Council of Scientific & Industrial Research (CSIR) India
3. **GATE2010 (All India Rank 089)**
2010
Ministry of Human Resource Development (MHRD) India
4. **Junior Research Fellow (All India Rank 114)**
DECEMBER, 2009
Council of Scientific & Industrial Research (CSIR) India

WORK EXPERIENCE

1. **Assistant Professor**
DECEMBER, 2025 – ONWARD
C. M. Science College, Lal Bagh, Darbhanga, Bihar, India
2. **Assistant Professor**
MARCH, 2023 – NOVEMBER 2025
University Centre for Research and Development (UCRD) and Department of Physics, Chandigarh University, Mohali, Punjab
3. **Assistant Professor**
SEPTEMBER, 2022 – FEBRUARY, 2023
REVA UNiversity, Benaluru, India
4. **Post-Doctoral Fellow**
MARCH, 2020 – AUGUST, 2022
Wigner Research Center for Physics, Budapest, Hungary
5. **Post-Doctoral Fellow**
OCTOBER, 2017 – FEBRUARY 2020
Instituto de Ciencias Nucleares UNAM, CDMX, Mexico
6. **Visiting Researcher**
SEPTEMBER 3, 2019 – SEPTEMBER 28, 2019
Kansas University, Kansas City, USA
7. **Research Associate**
APRIL, 2017 – SEPTEMBER, 2017
Indian Institute of Technology Madras, Chennai, India
8. **Visiting Researcher**
JULY, 2016 – APRIL, 2017
Indian Institute of Technology Indore, Indore, India

9. Junior Research Fellow

JULY 2010 – APRIL , 2012

PROJECT: ALICE EXPERIMENT AT CERN, GENEVA.

Department of Physics, University of Rajasthan, Jaipur, India

SKILLS:

1. Big data analysis of petabytes of complex data collected by A Large Ion Collider Experiment (ALICE) at CERN, Geneva.
2. Programming languages: f77(g77,gFortran), C, C++ and Python.
3. More than 10 years of teamwork and coordination experience in an international environment.
4. >14 years of experience in data analysis and data visualization.
5. Author of >400 scientific publications
6. Presentation in >15 international scientific conferences and published conference proceedings.

CONFERENCES, WORKSHOPS AND TALKS

1. *Presented a paper titled “Study of Multiplicity (centrality) Dependent Thermodynamic and Transport Properties at LHC within Color String Percolation Model” at Zimanyi School 2021, Budapest, Hungary, December 06-10, 2021*
2. *Presented a paper titled “Implementation of machine learning techniques to predict impact parameter and transverse sphericity in heavy-ion collisions at the LHC” at 9th Edition of the Large Hadron Collider Physics Conference (LHCP 2021 online), Paris, France, June 7-12, 2021*
3. *Presented a paper titled “Sudden increase in the degrees of freedom in dense QCD matter” at 9th International Conference on New Frontiers in Physics” (ICNFP 2020 online), Greece, Czech Republic, September 4-October 2, 2020*
4. *Presented a poster titled “Study of degrees of freedom in dense QCD matter using Color String Percolation Model” at DAE-BRNS High Energy Physics (HEP) Symposium 2020 (online), NISER, India, December 14-18, 2020*
5. *Presented a paper titled “ Study of degrees of freedom in dense QCD matter using Color String Percolation Model ” at Zimanyi School 2020, Budapest, Hungary, December 07-11, 2020*
6. *Presented a paper titled “Improving the selection on MPI using multiplicity and leading charged-particle transverse momentum” at 11th International Workshop on Multiple Partonic Interactions at the LHC (MPI@LHC 2019), Prague, Czech Republic, November 17-22, 2019*
7. *Presented a paper titled “Particle Production at high p_T and high multiplicity in pp collisions” at Zimanyi School 2019, Budapest, Hungary, December 02-06, 2019*

8. **Invited Seminar** titled “Study of K^{*0} and ϕ Meson Production in proton+proton Collisions with ALICE at the LHC and Universality of Particles Production in HEP” at Depto. de Física, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional (CINVESTAV-IPN), Mexico City on May 7, 2019
9. Presented three posters at 7th Annual Large Hadron Collider Physics (LHCP2019) conference, Puebla, Mexico, May 20-25, 2019
10. Presented a paper at XXIII DAE-BRNS High Energy Physics (HEP) Symposium 2018 , IIT Madras, India, December 10-14, 2018
11. Presented a paper at XXXII Reunión Anual de la División de Partículas y Campos de la SMF, ICN-UNAM, México City, México, May 28-30, 2018
12. Presented a poster at The 27th International Conference on Ultra-relativistic Nucleus-Nucleus Collisions Venezia, Italy 13-19 May 2018
13. **Invited Talk:** XI Workshop on Particle Correlations and Femtoscopy (WPCF) at Heavy-Ion Reactions Group, Warsaw University of Technology, Warsaw, Poland, November 3-7, 2015
14. **Invited Talk:** XLV International Symposium on Multiparticle Dynamics (ISMD 2015) at Max-Planck-Institut for Physik, Wildbad Kreuth ,Germany, October 4-9, 2015
15. Presented a paper at 7th International Conference on Physics and Astrophysics of Quark Gluon Plasma (ICPAQGP) at VECC Kolkata, February 2-6, 2015
16. **Invited Talk:** XLIV International Symposium on Multiparticle Dynamics (ISMD 2014) at INFN, Bologna, Italy, September 8-12, 2014
17. **Invited Talk:** X Workshop on Particle Correlations and Femtoscopy (WPCF 2014) at Karoly Robert College, Gyongyos, Hungary, August 25-29, 2014
18. Presented a Poster at DAE International Symposium on Nuclear Physics at Bhabha Atomic Research Centre (BARC), Mumbai, December 2-7, 2013
19. Presented a Poster at International conference on Recent trends in Applied physics and Material science (RAM-2013) at Govt. college of Engineering and Technology, Bikaner, February 01-02, 2013
20. Attended DST-SERC school on Nuclear Physics at Variable Energy Cyclotron Centre (VECC), Kolkata, January 7 - 25, 2013
21. Paper presented at DAE Symposium on Nuclear Physics at Delhi University, Delhi, December 3-7, 2012
22. Attended and delivered talk in QGP-MEET Workshop at VECC, Kolkata, July 3-6, 2012
23. Attended SERC School on Experimental High Energy Physics (EHEP) at VECC, Kolkata, June 20-July 10, 2011

RESERACH PUBLICATIONS

1. “Effect of event classifiers on jet quenching-like signatures in high-multiplicity p+p collisions at $\sqrt{s}=13$ TeV” [[arxiv:2309.09533](#) (Under Review in *Phys. Rev D*)]
Hushnud Hushnud, Omveer Singh, Srikanta Kumar Tripathy, **A. N. Mishra**, Kalyan Dey
2. “Parton energy loss in pp collisions at very high multiplicity” [[arXiv:1905.06918](#) (2020)]
A. N. Mishra and Guy Paic
3. “Event shape engineering and study of identified particle production in Oxygen–Oxygen collisions at $\sqrt{s_{NN}} = 7$ TeV using AMPT” [*Eur. Phys. J. A* 61 (2025) 258]
DOI: <https://doi.org/10.1140/epja/s10050-025-01738-8> (2025)
Thresia Michael, Hushnud Hushnud, R. Kanishka, and **A. N. Mishra**
[[SCIE Indexed Journal](#); [ISSN no.1434-601X](#); [Impact Factor: 2.8](#)]
4. “Study of transverse sphericity dependent identified particle spectra in a multi-phase transport model for O+O collisions at $\sqrt{s_{NN}} = 7$ TeV” [*Int. J. Mod. Phys. E (IJMPE)* 33, 2450025 (2024)]
DOI: <https://doi.org/10.1142/S0218301324500253> (2024)
M. Bassan, T. Michael, N. Bano and **A. N. Mishra**
[[SCIE Indexed Journal](#); [ISSN no. 0218-3013](#); [Impact Factor: 1.174](#)]
5. “Study of thermodynamical observables in Oxygen+Oxygen collisions at $\sqrt{s_{NN}} = 7$ TeV using color string percolation approach” [*Int. J. Mod. Phys. E (IJMPE)* 33, 2450036 (2024)]
DOI: <https://doi.org/10.1142/S0218301324500368> (2024)
S. Gupta, T. Michael, N. Bano and **A. N. Mishra**
[[SCIE Indexed Journal](#); [ISSN no. 0218-3013](#); [Impact Factor: 1.174](#)]
6. “Exploring the QGP phase above the deconfinement temperature in pp and A–A collisions at LHC energies” [*Nucl. Phys. A* 1046, 122865 (2024)]
A. N. Mishra, Guy Paic, C. Pajares, R. P. Scharenberg and B. K. Srivastava
[[SCI Indexed Journal](#); [ISSN no. 0375-9474](#); [Impact Factor: 2.408](#)]
7. “Equation of State of Quark–Gluon Matter in the Clustering-of-Color-Sources Approach” [*Universe* 10 (2024) 55]
A. N. Mishra, Guy Paic, C. Pajares, R. P. Scharenberg and B. K. Srivastava
[[SCI Indexed Journal](#); [ISSN no. 2218-1997](#); [Impact Factor: 2.4](#)]
8. “Quantifying the Underlying Event: Investigating Angular Dependence of Multiplicity Classes and Transverse-momentum Spectra in High-energy pp Collisions at LHC Energies” [*J. Phys. G.* 50, 095004 (2023)]
A. N. Mishra, Gergely Gábor Barnaföldi and Guy Paic
[[SCI Indexed Journal](#); [ISSN no. 1361-6471](#); [Impact Factor: 3.519](#)]
9. “Deep learning predicted elliptic flow of identified particles in heavy-ion collisions at the RHIC and LHC energies” [*Phys. Rev. D* 107, 094001 (2023)]
N. Mallick, S. Prasad, **A. N. Mishra**, R. Sahoo and Gergely Gábor Barnaföldi
[[SCI Indexed Journal](#); [ISSN no. 2470-0010](#); [Impact Factor: 5.296](#)]

10. “Effect of nuclear density profile on the global properties in O+O collisions at the Large Hadron Collider using a multi-phase transport model” [[Eur. Phys. J. A 58, 175 \(2022\)](#)]]
D. Behera, N. Mallick, S. Tripathy, S. Prasad, **A. N. Mishra** and R. Sahoo
[\[SCI Indexed Journal; ISSN no. 1434-6001; Impact Factor: 3.043\]](#)
11. “Estimating Elliptic Flow Coefficient in Heavy Ion Collisions using Deep Learning” [[Phys. Rev. D 105, 114022 \(2022\)](#)]]
N. Mallick, S. Prasad, **A. N. Mishra**, R. Sahoo and Gergely Gábor Barnaföldi
[\[SCI Indexed Journal; ISSN no. 2470-0010; Impact Factor: 5.296\]](#)
12. “Jet Transport Coefficient at the Large Hadron Collider Energies in a Color String Percolation Approach” [[MDPI Physics 4 \(2022\) 315](#)]]
A. N. Mishra, Dushmanta Sahu, and R. Sahoo
[\[ESCI Indexed Journal; ISSN no. 2624-8174; Impact Factor: 1.6\]](#)
13. “Medium modification type phenomena observed in high-multiplicity p+p collisions at LHC energies” [[EuroPhysics Letters 136 \(2021\) 62001](#)]]
K Dey, **A. N. Mishra**, and S. K. Tripathy
[\[ESCI Indexed Journal; ISSN no. 0295-5075; Impact Factor: 1.947\]](#)
14. “Sudden increase in the degrees of freedom in dense QCD matter” [[IJMPE 30, \(2021\) 2141006](#)]]
A. N. Mishra, Guy Paić, C. Pajares, R. P. Scharenberg and B. K. Srivastava
[\[SCI Indexed Journal; ISSN no. 0218-3013; Impact Factor: 1.174\]](#)
15. “Deconfinement and degrees of freedom in pp and A-A collisions at LHC energies” [[Eur. Phys. J. A 57 \(2021\) 245](#)]]
A. N. Mishra, Guy Paić, C. Pajares, R. P. Scharenberg and B. K. Srivastava
[\[SCI Indexed Journal; ISSN no. 1434-6001; Impact Factor: 3.043\]](#)
16. “Estimation of Impact Parameter and Transverse Sphericity in heavy-ion collisions at the LHC energies using Machine Learning” [[Phys. Rev. D 103 \(2021\) 094031](#)]]
N Mallick, S. Tripathy, **A. N. Mishra**, S. Deb and R. Sahoo
[\[SCI Indexed Journal; ISSN no. 2470-0010; Impact Factor: 5.296\]](#)
17. “Effective-energy universality approach describing total multiplicity centrality dependence in heavy-ion collisions” [[EuroPhysics Letters 127 \(2019\) no.6, 62001](#)]]
E. K. G. Sarkisyan, **A. N. Mishra**, R. Sahoo and A. S. Sakharov
[\[Scopus Indexed Journal; ISSN no. 0295-5075; Impact Factor: 1.947\]](#)
18. “Intriguing similarities between high-pT particle production in pp and A-A collisions” [[Phys. Rev. C 99, 034911\(2019\)](#)]]
A. N. Mishra, Antonio Ortiz and Guy Paić
[\[SCI Indexed Journal; ISSN no. 2469-9985; Impact Factor: 5.42\]](#)
19. “Energy and Centrality dependence of $dN_{ch}/d\eta$ and $dE_T/d\eta$ in Heavy-Ion Collisions from $\sqrt{s_{NN}} = 7.7$ GeV to 5.02 TeV” [[Eur. Phys. J. A 52, 319 \(2016\)](#)]]
A. N. Mishra, R. Sahoo, P. Sahoo, P. Pareek, N. K. Behera and B. K. Nandi
[\[SCI Indexed Journal; ISSN no. 1434-6001; Impact Factor: 3.043\]](#)

20. “Centrality dependence of midrapidity density from GeV to TeV heavy-ion collisions in the effective-energy universality picture of hadroproduction” [[Phys. Rev. D 94, 011501\(R\) \(2016\)](#)]
E. K. G. Sarkisyan, [A. N. Mishra](#), R. Sahoo and A. S. Sakharov
[\[SCI Indexed Journal; ISSN no. 2470-0010; Impact Factor: 5.296\]](#)
21. “Multihadron production dynamics exploring the energy balance in hadronic and nuclear collisions” [[Phys. Rev. D 93, 054046 \(2016\)](#)]
E. K. G. Sarkisyan, [A. N. Mishra](#), R. Sahoo and A. S. Sakharov
[\[SCI Indexed Journal; ISSN no. 2470-0010; Impact Factor: 5.296\]](#)
22. “Charged Particle, Photon Multiplicity, and Transverse Energy Production in High-Energy Heavy-Ion Collisions” [[Adv. High Energy Phys. 2015, 612390 \(2015\)](#)]
R. Sahoo, [A. N. Mishra](#), N. K. Behera and B. K. Nandi
[\[SCI Indexed Journal; ISSN no. 1687-7357; Impact Factor: 1.777\]](#)
23. “Effective-energy budget in multiparticle production in nuclear collisions” [[Eur. Phys. J. C 74, 3147 \(2014\)](#)]
[A. N. Mishra](#), R. Sahoo, E. K. G. Sarkisyan and A. S. Sakharov
[\[SCI Indexed Journal; ISSN no. 1434-6044; Impact Factor: 4.59\]](#)
24. “Transverse energy and charged particle production in heavy-ion collisions: From RHIC to LHC” [[Int. J. Mod. Phys. E 23, 1450024 \(2014\)](#)]
R. Sahoo and [A. N. Mishra](#)
[\[SCI Indexed Journal; ISSN no. 0218-3013; Impact Factor: 1.174\]](#)

CONFERENCE PROCEEDINGS

1. “A Deep Learning Based Estimator for Light Flavour Elliptic Flow in Heavy Ion Collisions at LHC Energies” [[EPJ Web of Conferences 316, 03004 \(2025\)](#)]
Gergely Gábor Barnaföldi, N. Mallick, S. Prasad, R. Sahoo and A. N. Mishra
[25th DAE-BRNS High Energy Physics Symposium \(2024\)](#)
2. “Sensitivity of Nuclear Density Profiles on Global Observables in O–O Collisions at the Large Hadron Collider Using AMPT Model.” [[Proceeding of 25th DAE-BRNS High Energy Physics Symposium, 925-927 \(2024\)](#)]
N. Mallick, S. Prasad, [A. N. Mishra](#), R. Sahoo and Gergely Gábor Barnaföldi
[67th DAE BRNS Symposium on nuclear physics \(2024\)](#)
3. “A machine learning approach in estimating the coefficient of azimuthal anisotropy in heavy-ion collisions” [[Proceedings of the DAE Symp. on Nucl. Phys. 67 \(2024\) 1091-1092](#)]
N. Mallick, S. Prasad, [A. N. Mishra](#), R. Sahoo and Gergely Gábor Barnaföldi
[67th DAE BRNS Symposium on nuclear physics \(2024\)](#)
4. “A Deep Learning Based Estimator for Elliptic Flow in Heavy Ion Collisions” [[Proceeding of Science PoS LHCP2022 259 \(2023\)](#)]
N. Mallick, S. Prasad, [A. N. Mishra](#), R. Sahoo and Gergely Gábor Barnaföldi
[Conference Details: 10th Large Hadron Collider Physics Conference, 16-20 May 2022](#)
[\[Scopus Indexed Journal; ISSN no. 1824-8039; Impact Factor: 0.09\]](#)

5. “Global properties in O+O collisions at $\sqrt{s_{NN}} = 7$ TeV using AMPT model” [Proceeding of Science PoS LHCP2022 305 (2023)]
D. Behera, N. Mallick, S. Tripathy, S. Prasad, **A. N. Mishra** and R. Sahoo
Conference Details: 10th Large Hadron Collider Physics Conference, 16-20 May 2022
[Scopus Indexed Journal; ISSN no. 1824-8039; Impact Factor: 0.09]
6. “Angular Dependence of Multiplicity Classes and Transverse-momentum Spectra within Non-extensive Statistical Approach in pp Collisions at 13 TeV” [Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)]
A. N. Mishra, Gergely Gábor Barnaföldi and Guy Paic
65th DAE BRNS Symposium on nuclear physics,(Online 2021)
7. “Estimation of impact parameter and transverse sphericity in heavy-ion collisions at the LHC using machine learning techniques” [Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)]
N Mallick, S. Tripathy, **A. N. Mishra**, S. Deb and R. Sahoo
65th DAE BRNS Symposium on nuclear physics,(Online 2021)
8. “Global properties in O+O collisions at 7 TeV using a multiphase transport model” [Proceedings of the DAE Symp. on Nucl. Phys. 65 (2021)]
D. Behera, N. Mallick, S. Tripathy, S. Prasad, **A. N. Mishra** and R. Sahoo
65th DAE BRNS Symposium on nuclear physics,(Online 2021)
9. “Implementation of machine learning techniques to predict impact parameter and transverse sphericity in heavy-ion collisions at the LHC” [Proceeding of Science PoS(LHCP2021)265]
A. N. Mishra, Neelkamal Mallick, Sushanta Tripathy, Suman Deb and Raghunath Sahoo
Conference Details: 9th Large Hadron Collider Physics Conference, 7-12 June 2021 (Online)
[Scopus Indexed Journal; ISSN no. 1824-8039; Impact Factor: 0.09]
10. “Study of the jet transport coefficient at the Large Hadron Collider energies using Color String Percolation Model” [Proceeding of Science PoS(LHCP2021)232]
, Dushmanta Sahu, **A. N. Mishra** and Raghunath Sahoo
Conference Details: 9th Large Hadron Collider Physics Conference, 7-12 June 2021 (Online)
[Scopus Indexed Journal; ISSN no. 1824-8039; Impact Factor: 0.09]
11. “ALICE data in the framework of Color String Percolation Model” [Proceeding of Science PoS(LHCP2019)004]
A. N. Mishra, E. Cuautle, G. Paic, C. Pajares, R. P. Scharenberg and B. K. Srivastava
Conference Details: 7th Large Hadron Collider Physics Conference, May 2019, Mexico
[Scopus Indexed Journal; ISSN no. 1824-8039; Impact Factor: 0.09]
12. “Intriguing Similarities Between High- p_T Particle Production in pp and A-A Collisions” [Springer Proceedings in Physics 261 (2021)]

A. N. Mishra

Conference Details: DAE BRNS Symposium on High Energy Physics, India 2018

13. “Multihadron production in high energy collisions and forward rapidity measurement on inclusive photons in PbPb collisions at 2.76 TeV in ALICE experiment at LHC” [Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 61 (2016) , 1142]
A. N. Mishra
Conference Details: DAE BRNS Symposium on Nuclear Physics, India 2016
14. “Universality of particle production and energy balance in hadronic and nuclear collisions ” [Acta Physica Polonica B Proceedings Supplement, 09 (2016)]
A. N. Mishra, R. Sahoo, E. K. G. Sarkisyan and A. S. Sakharov
Conference Details: WPCF2015, Poland
15. “Universality of particle production and energy balance in hadronic and nuclear collisions ” [EPJ Web of Conferences 120, 01007 (2016)]
A. N. Mishra, R. Sahoo, E. K. G. Sarkisyan and A. S. Sakharov
Conference Details: ISMD2015, Germany
16. “Exploring energy balance in multihadron production: from hadronic to nuclear collisions” [Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015), 750]
A. N. Mishra, R. Sahoo, E. K. G. Sarkisyan and A. S. Sakharov
Conference Details: DAE BRNS Symposium on Nuclear Physics, India 2015
17. “Revealing similarity in multihadron production in hadronic and nuclear collisions” [Proceeding of Science PoS(ICPAQGP2015)052]
A. N. Mishra, R. Sahoo, E. K. G. Sarkisyan and A. S. Sakharov
Conference Details: 7th International conference on Physics and Astrophysics of Quark Gluon Plasma, 2015, India
[Scopus Indexed Journal; ISSN no. 1824-8039; Impact Factor: 0.09]
18. “Systematic study of identified spectra with radial flow at RHIC and LHC in Tsallis non-extensive statistics ” [Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 60 (2015) 738]
D. Thakur, P. Garg, S. Tripathy, A. Khuntia, **A. N. Mishra** and R. Sahoo
Conference Details: DAE BRNS Symposium on Nuclear Physics, India 2015
19. “Multiparticle production in nuclear collisions using effective energy approach ” [EPJ Web of Conferences 90, 01001 (2015)]
A. N. Mishra, R. Sahoo, E. K. G. Sarkisyan and A. S. Sakharov
Conference Details: ISMD2014, Italy and WPCF2014, Hungary
20. “Energy dissipation and charged particle density in Heavy-ion collisions” [Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 59 (2014) 740]
A. N. Mishra, R. Sahoo, E. K. G. Sarkisyan and A. S. Sakharov
Conference Details: DAE BRNS Symposium on Nuclear Physics, India 2014

21. “Hard Scattering contribution to particle production in high energy heavy ion collisions” [Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 59 (2014) 738]
P. Pareek, **A. N. Mishra**, P. Sahoo and R. Sahoo
Conference Details: [DAE BRNS Symposium on Nuclear Physics, India 2014](#)
22. “Towards A Universal Law of Particle Production in Heavy- Ion Collisions” [AIP Conf. Proc. 1536, 1348 (2013)]
A. N. Mishra, R. Mazumder and R. Sahoo
Conference Details: [RAM, Bikaner, India 2013](#)
23. “Energy dissipation and charged particle production in heavy-ion collisions” [Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 58 (2013) 756]
A. N. Mishra, R. Sahoo, E. K. G. Sarkisyan and A. S. Sakharov
Conference Details: [DAE BRNS Symposium on Nuclear Physics, India 2013](#)
24. “Constituent quarks and charged particle production in heavy-ion collisions ” [Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 57 (2012) 772]
A. N. Mishra, R. Mazumdar, R. Sahoo and B. K. Nandi
Conference Details: [DAE BRNS Symposium on Nuclear Physics, India 2012](#)

ALICE@CERN COLLABORATION RESEARCH PUBLICATIONS

I started my research career in ALICE Experiment at LHC in University of Rajasthan, Jaipur, India in 2010. During my activity within the ALICE Collaboration at CERN, I have worked on different topics including the work on the detector and its subdetectors, data taking and data handling, the experiment hardware and software development. This work included the “refining clustering algorithm” and “embedding techniques” to improve the photon counting efficiency of Photon Multiplicity Detector (PMD), testing and replacement of the PMD modules during LHC shutdown, work on and shifts for the PMD detector and ALICE central control systems such as Detector Control System (DCS), Data Quality Monitoring (DQM) and Data Acquisition (DAQ), contribution to the data taking and calibration task for the PMD, different types of programming for the ALICE hardware, database system, data acquisition and results performance. I analysed PMD data to study the photon production in forward direction. In addition, I was also involved in the analysis K^* production in pp collisions at 8 TeV using TPC and TOF detector. Here are the list of experimental publications:

1. “Charged-particle production as a function of the relative transverse activity classifier in pp, p–Pb, and Pb–Pb collisions at the LHC”
S. Acharya, ..., **A. N. Mishra** *et al.* [ALICE Collaboration], JHEP **01**, 199 (2024)
2. “Femtoscopic correlations of identical charged pions and kaons in pp collisions at $\sqrt{s}=13$ TeV with event-shape selection”
S. Acharya, ..., **A. N. Mishra** *et al.* [ALICE Collaboration], Phys. Rev. C **109**, no.2, 024915 (2024)
3. “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”
S. Acharya, ..., **A. N. Mishra** *et al.* [ALICE Collaboration], JHEP **03**, 092 (2024)

4. “Measurements of long-range two-particle correlation over a wide pseudorapidity range in p–Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV”
S. Acharya, ..., **A. N. Mishra** *et al.* [ALICE Collaboration], JHEP **01**, 199 (2024)
5. “Probing the chiral magnetic wave with charge-dependent flow measurements in Pb-Pb collisions at the LHC”
S. Acharya, ..., **A. N. Mishra** *et al.* [ALICE Collaboration], JHEP **12**, 067 (2023)
6. “Prompt and non-prompt J/ ψ production at midrapidity in Pb–Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV”
S. Acharya, ..., **A. N. Mishra** *et al.* [ALICE Collaboration], JHEP **02**, 066 (2024)
7. “K*(892) \pm resonance production in Pb-Pb collisions at sNN=5.02 TeV”
S. Acharya, ..., **A. N. Mishra** *et al.* [ALICE Collaboration], Phys. Rev. C **109**, no.4, 044902 (2024)
8. “Skewness and kurtosis of mean transverse momentum fluctuations at the LHC energies”
S. Acharya, ..., **A. N. Mishra** *et al.* [ALICE Collaboration], Phys. Lett. B **850**, 138541 (2024)
9. “System-size dependence of the hadronic rescattering effect at energies available at the CERN Large Hadron Collider”
S. Acharya, ..., **A. N. Mishra** *et al.* [ALICE Collaboration], Phys. Rev. C **109**, no.1, 014911 (2024)
10. “Study of flavor dependence of the baryon-to-meson ratio in proton-proton collisions at s=13 TeV”
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