

Dr. Sudipan De

Assistant Professor

Department of Physics

Dinabandhu Mahavidyalaya, Bongaon

Name: Dr. Sudipan De

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Email Id: sudipan86@gmail.com, sudipan.de@dinabandhumahavidyalaya.ac.in

Designation: Assistant Professor

Department: Physics

Specialization: Nuclear and Particle Physics, High Energy Physics

Educational Qualifications:

Degree	Subject	Institute/University	year	Division
Secondary	Bengali, English, Mathematics, Physical Science, Life Science, History, Geography	West Bengal Board of Secondary Education	2001	1st
Higher Secondary	Bengali, English, Mathematics, Physics, Chemistry, Bioscience	West Bengal Council of Higher Secondary Education	2003	1st
Bachelor of Science (B.Sc.)	Physics	University of Kalyani	2006	1st
Master of Science (M.Sc.)	Physics	University of Kalyani	2008	1st
NET	Physical Sciences	Council of Scientific &	2009	Lecture

		Industrial Research (CSIR)		ship
Ph.D.	Physics	Homi Bhabha National Institute, Variable Energy Cyclotron Centre	2014	

Details of Ph.D.:

Thesis title: Photon production and forward-backward multiplicity correlation in ALICE at the LHC

Supervisor: Dr. Tapan Nayak

Awarded : 24 May, 2014

Academic career:

Position	Institute/University	year	Duration
Research Fellow	Bose Institute	January 2014– May 2014	5 monts
Postdoctoral Fellow	University of Sao Paulo	August 2014 –July 2016	2 years
Postdoctoral Fellow	Indian Institute of Technology Indore (IIT Indore)	August 2016-September 2018	2 years 1 month
INSPIRE Faculty	National Institute of Sceience Education and Research (NISER)	October 2018-December 2019	1 year 2 months
Assistant Professor	Dinabandhu Mahavidyalaya (Bongaon), West Bengal State University	December 2019-Continue	3 years 6 months and Continue

Date of Joining: 16th December, 2019

Teaching Experience:

- Currently taking UG basic courses and the UG practical classes at Dinabandhu Mahavidyalaya, Bongaon
- Took an UG basic course (Mechanics and Thermodynamics) in 2018-2019 academic year at NISER
- Took the practical classes of “Modern Physics” and “Solid State Physics” of integrated M.Sc.-Ph.D. students in 2018-2019 academic year at NISER

Subject/course taught:

Mechanics, Electricity and Magnetism, Waves and optics, Thermal Physics, Elements of Modern Physics, Quantum Mechanics, Statistical Mechanics, Nuclear and Particle Physics

Research Interests:

- Experimental High energy Nuclear Physics
- Quark Gluon Plasma (QGP) Physics in “A Large Ion Collider Experiment (ALICE)” at CERN, Switzerland.
- Heavy-flavour particles
- Global observables
- Correlation and fluctuations
- Expertise in experimental data analysis, detector simulation, detector calibration, handling with large scale of data, detector software and hardware, collaboration with different international groups.
- QGP phenomenology

Project Undertaken:

Project Name: DST INSPIRE Faculty Fellowship (IFA18-PH220)

Project Title: Study the properties of matter via heavy-flavour energy loss

Project Duration: under extreme condition
5 years from start date, 08.10.2018

Previous host Institute: National Institute of Science Education and Research (NISER), Bhubaneswar

Issue of the Approval letter by DST for the Transfer of the Project from NISER to Dinabandhu Mahavidyalaya, Bongaon: 01.03.2021

Research Grant Amount of the Project: Rs. 700000 per year

Awards and Scholarships:

- Received **INSIPER FACULTY Fellowship** in 2018
- Received **FAPESP Fellowship** (2014-2016) for postdoctoral Fellow at University of Sao Paulo, Brazil
- Qualified **JEST 2008** and **NET 2009**

Course/Training:

Completed Refresher Course (RC) on “Earth & the Sustainable Development Goals (All Subjects)” from December 08, 2022 to December 21, 2022.

Grade obtained: A+

Platform: Online

Institution: University of North Bengal

Membership:

NA

List of Publications (Journals and Books):

Sudipan De as a Principal Author:

No.	Paper details
1.	Forward-backward multiplicity correlations in pp collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV, Journal of High Energy Physics (JHEP), 05, 2015, 097 S. De as a principal author, ALICE Collaboration (J. Adam, ..., S. De et al.) Web link: https://link.springer.com/article/10.1007/JHEP05(2015)097
2.	Inclusive photon production at forward rapidities in proton-proton collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV, The European Physical Journal C (EPJC), 75, 2015, 146 S. De as a principal author, ALICE Collaboration (B. Abelev, ..., S. De et al.) Web link: https://link.springer.com/article/10.1140/epjc/s10052-015-3356-2
3.	Measurement of electrons from heavy-flavour hadron decays as a function of multiplicity in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV, Journal of High Energy Physics (JHEP), 02, 2020, 077 S. De as a principal author, ALICE Collaboration (S. Acharya, ..., S. De et al.) Web link: https://link.springer.com/article/10.1007/JHEP02(2020)077
4.	Measurement of $K^*(892)^\pm$ production in inelastic pp collisions at the LHC Physics Letters B 828 (2022) 137013 S. De as a principal author, ALICE Collaboration (S. Acharya, ..., S. De et al.) Web link: https://www.sciencedirect.com/science/article/pii/S0370269322001472
5.	Method for the analysis of forward- backward multiplicity correlations in heavy-ion collisions, PHYSICAL REVIEW C, 88, 2013, 044903 Sudipan De, T. Tarnowsky, T. K. Nayak, R. P. Scharenberg, and B. K. Srivastava Web link: https://journals.aps.org/prc/abstract/10.1103/PhysRevC.88.044903
6.	Role of MultiParton Interactions on J/psi Production in p + p collisions at LHC energies, PHYSICAL REVIEW D, 097 094002 (2018) D. Thakur, Sudipan De, R. Sahoo, S. Dansana Web link: https://journals.aps.org/prd/abstract/10.1103/PhysRevD.97.094002
7.	Baseline study for higher moments of net-charge distributions at energies available at the BNL Relativistic Heavy Ion Collider, PHYSICAL REVIEW C, 87, 2013, 044906 Nihar R. Sahoo, Sudipan De, and Tapan K. Nayak Web link: https://journals.aps.org/prc/abstract/10.1103/PhysRevC.87.044906

8	<p>Thermalization of dense hadronic matter in Au + Au collisions at energies available at the Facility for Antiproton and Ion Research, PHYSICAL REVIEW C, American Physical Society, 94, 2016, 054901 Somnath De, Sudipan De, S. Chattopadhyay Web link: https://journals.aps.org/prc/abstract/10.1103/PhysRevC.94.054901</p>
9	<p>Predictions for azimuthal anisotropy in Xe + Xe collisions at $\sqrt{s_{NN}} = 5.44$ TeV using a multiphase transport model, PHYSICAL REVIEW C, 98, 064904 (2018) S. Tripathy, Sudipan De, Md. Younus, R. Sahoo Web link: https://journals.aps.org/prc/abstract/10.1103/PhysRevC.98.064904</p>
10	<p>Identified particle production in Xe + Xe collisions at $\sqrt{s_{NN}} = 5.44$ TeV using a multiphase transport model, PHYSICAL REVIEW C, 99, 064903 (2019), R. Rath, S. Tripathy, R. Sahoo, Sudipan De, Md. Younus Web link: https://journals.aps.org/prc/abstract/10.1103/PhysRevC.99.064903</p>
11	<p>Energy and Centrality Dependent Study of Deconfinement Phase Transition in a Color String Percolation Approach at RHIC energies The European Physical Journal A, (2018) 54:136 P. Sahoo, Sudipan De, S. K. Tiwari, R. Sahoo Web link: https://link.springer.com/article/10.1140/epja/i2018-12571-9</p>
12	<p>Multiplicity dependence of J/psi production and QCD dynamics in p+p collisions at $\sqrt{s} = 13$ TeV, The European Physical Journal A, (2020) 56:134 S. Deb, D. Thakur, Sudipan De, R. Sahoo Web link: https://link.springer.com/article/10.1140/epja/s10050-020-00138-4</p>
13	<p>Thermodynamic and transport properties in Au + Au collisions at RHIC energies from the clustering of color strings, Mod.Phys.Lett.A 34 (2019) 04, 1950034, P. Sahoo, S. K. Tiwari, Sudipan De, R. Sahoo, Rolf P. Scharenberg, B. K. Shrivastava Web link: https://www.worldscientific.com/doi/10.1142/S0217732319500342</p>
14	<p>Centrality dependence of nuclear suppression of D mesons in p+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV S K Tripathy, Md Younus, Sudipan De arXiv:2008.05265 Web link: https://arxiv.org/abs/2008.05265</p>
15	<p>Empirical determination of the fractional energy loss of heavy mesons at RHIC and LHC energies Somnath De and Sudipan De arXiv:2104.02644 Web link: https://arxiv.org/abs/2104.02644</p>

16	Spatial diffusion of heavy quarks in background magnetic field Sarthak Satapathy, Sudipan De, Jayanta Dey, Sabyasachi Ghosh arXiv:2212.08933 Web link: https://arxiv.org/abs/2212.08933
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Sudipan De as a co-author (ALICE Collaboration):

No.	Paper details
17	Measurement of electrons from semileptonic heavy-flavour hadron decays at midrapidity in pp and Pb–Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV Physics Letters B 804 (2020) 135377 S. De as a co-author, ALICE Collaboration (S. Acharya,...,S. De et al.) Web link: https://www.sciencedirect.com/science/article/pii/S0370269320301817
18	Inclusive heavy-flavour production at central and forward rapidity in Xe–Xe collisions at $\sqrt{s_{NN}} = 5.02$ TeV Physics Letters B 819 (2021) 136437 S. De as a co-author, ALICE Collaboration (S. Acharya,...,S. De et al.) Web link: https://www.sciencedirect.com/science/article/pii/S0370269321003774
19	Long-range angular correlations on the near and away side in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV Physics Letters B 719 (2013) 29-41 S. De as a co-author, ALICE Collaboration (B. Abelev,...,S. De et al.) Web link: https://www.sciencedirect.com/science/article/pii/S037026931300035X
20	Pseudorapidity Density of Charged Particles in p-Pb Collisions at $\sqrt{s_{NN}} = 5.02$ TeV PHYSICAL REVIEW LETTERS 110, 2013, 032301 S. De as a co-author, ALICE Collaboration (B. Abelev,...,S. De et al.) Web link: https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.110.032301
21	Measurement of electrons from heavy- flavour hadron decays in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV Physics Letters B 754 (2016) 81-93 S. De as a co-author, ALICE Collaboration (J. Adam,...,S. De et al.) Web link: https://www.sciencedirect.com/science/article/pii/S0370269315010151
22	Measurement of electrons from beauty-hadron decays in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV and Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV Journal of High Energy Physics (JHEP) 07 (2017) 052 S. De as a co-author, ALICE Collaboration (J. Adam,...,S. De et al.)

	Web link: https://link.springer.com/article/10.1007/JHEP07(2017)052
23	Measurement of the production of high-pT electrons from heavy-flavour hadron decays in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV Physics Letters B 771 (2017) 467-481 S. De as a co-author, ALICE Collaboration (J. Adam, ..., S. De et al.) Web link: https://www.sciencedirect.com/science/article/pii/S0370269317304239
24	Production of $K^*(892)^0$ and $\Phi(1020)$ in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV and Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV The European Physical Journal C (EPJC) 76 (2016) 245 S. De as a co-author, ALICE Collaboration (J. Adam, ..., S. De et al.) Web link: https://epjc.epj.org/articles/epjc/abs/2016/05/10052_2016_Article_4088
25	Centrality dependence of charged-particle multiplicity density at midrapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV PHYSICAL REVIEW LETTERS 116, 2016, 222302 S. De as a co-author, ALICE Collaboration (J. Adam, ..., S. De et al.) Web link: https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.116.222302
26	Centrality dependence of charged-particle multiplicity density at midrapidity in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV PHYSICAL REVIEW LETTERS 106, 2011, 032301 S. De as a co-author, ALICE Collaboration (K. Aamodt, ..., S. De et al.) Web link: https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.106.032301

Contributions in conferences

No.	Paper details
1	Dynamics of Hot QCD Matter -- Current Status and Developments: Spatial Diffusion of Heavy Quarks in Magnetic Field Proceeding of QCD Matter 2022 conference, held from May 12 to 14, 2022, jointly organized by IIT Goa & Goa University, Goa, India Sudipan De, Sarthak Satapathy, Jayanta Dey, Chitrasen Jena, Sabyasachi Ghosh International Journal of Modern Physics E (arXiv:2208.13440)
2	Measurements of open heavy-flavour production with ALICE at the LHC, Journal of Physics: Conference Series 770 (2016) 012006 (Proceeding of BEACH 2016 Conference, George Mason University, USA, June 12-18, 2016) Sudipan De for the ALICE Collaboration
3	Inclusive photon production at forward rapidities in pp collisions at LHC

	<p>energies with the ALICE Experiment</p> <p>Journal of Physics: Conference Series 706 (2016) 042016 (Proceeding of XIII Hadron Physisc Conference, March 22 - 27, 2015, Rio de Janeiro, Brazil)</p> <p>Sudipan De for the ALICE Collaboration</p>
4	<p>Forward-backward multiplicity correlations in pp collisions in ALICE at 0.9, 2.76 and 7 TeV,</p> <p>Proceeding of Science (Baldin ISHEPP XXI) 075 XXI International Baldin Seminar on High Energy Physics Problems, September 10 - 15, 2012, JINR, Dub, Russia</p> <p>G. Feofilov, I. Altsybeev, V. Vechernin, Sudipan De, B. K. Srivastava</p>
5	<p>Centrality dependence study of nuclear modification factor of electrons from heavy-flavour hadron decays in p-Pb collisions with ALICE at the LHC</p> <p>Presented as a poster in Quark Matter Conference, Venice, Italy, 14-19 May, 2018</p> <p>Sudipan De for ALICE Collaboration</p>
6	<p>$K^{*\pm}$ production in pp collisions at $\sqrt{s} = 5.02$ and 8 TeV with ALICE at the LHC</p> <p>Presented as a poster in Quark Matter Conference, Venice, Italy, 14-19 May, 2018</p> <p>P. Sahoo and Sudipan De</p>
7	<p>Study of the quarkonia production in proton+proton collisions at the LHC and the role of Multiple Partonic Interaction</p> <p>Presented as a poster in Quark Matter Conference, Venice, Italy, 14-19 May, 2018</p> <p>R. Sahoo, D. Thakur, Sudipan De, S. Dansana</p>
8	<p>Forward backward multiplicity correlations in pp collisions at $\sqrt{s} = 0.9$ TeV and 7 TeV</p> <p>Presented as a poster in Quark Matter Conference, Darmstadt, Germany, 2014</p> <p>Sudipan De for ALICE Collaboration</p>
9	<p>Inclusive photon production at forward rapidities for pp collisions at $\sqrt{s} = 0.9$ TeV and 7 TeV in ALICE at the LHC</p> <p>Presented as a poster in Quark Matter Conference, Annecy, 2011</p> <p>Sudipan De for ALICE Collaboration</p>
10	<p>Fractional energy loss of heavy mesons at the LHC energies</p> <p>Proceeding of DAE Symp. on Nucl. Phy. 64 (2019) 782</p> <p>Somnath De, Sudipan De</p>
11	<p>Insight into J/ψ production with hard-QCD and R_{AA} like in high-multiplicity p+p collisions at $\sqrt{s} = 13$ TeV</p> <p>Proceeding of DAE Symp. on Nucl. Phy. 63 (2018) 918</p> <p>S. Deb, D. Thakur, Sudipan De, and R. Sahoo</p>

12	<p>Study of Thermodynamic and Transport properties of Strongly Interacting matter in Color String Percolation Model at RHIC Proceeding of DAE Symp. on Nucl. Phy. 62 (2017) 884 P. Sahoo, S. K. Tiwari, Sudipan De, and R. Sahoo</p>
13	<p>J/psi production as a function charged particle multiplicity in proton + proton collisions at LHC energies Proceeding of DAE Symp. on Nucl. Phy. 62 (2017) 864 D. Thakur, Sudipan De, R. Sahoo and S. Dansana</p>
14	<p>Local thermal equilibrium of dense baryonic matter at CBM experiment Proceeding of DAE Symp. on Nucl. Phy. 60 (2015) 708 Somnath De, Sudipan De, and Subhasis Chattopadhyay</p>
15	<p>Method for the study of forward-backward multiplicity correlations in heavy-ion collisions Proceeding of DAE Symp. on Nucl. Phy. 58 (2013) 776 Sudipan De, B. K. Shrivastava, T. K. Nayak</p>
16	<p>Charged hadron production in proton-proton collisions at LHC energy Proceeding of DAE Symp. on Nucl. Phy. 56 (2011) 988 S. K. Das, N. R. Sahoo, Sudipan De, T. Nayak</p>
17	<p>Expectation of photon multiplicity in p-p collisions at LHC energies Proceeding of DAE Symp. on Nucl. Phy. 56 (2011) 986 S. Shingha, Sudipan De, B. Mohanty, T. K. Nayak</p>
18	<p>Inclusive photon production at forward rapidities for pp collisions at $\sqrt{s} = 0.9$ TeV and 7 TeV in ALICE at the LHC Proceeding of DAE Symp. on Nucl. Phy. 56 (2011) 908 Sudipan De on behalf of ALICE Collaboration</p>
19	<p>Methods for the Study of Forward-backward Multiplicity correlation in Heavy Ion Collisions Name of the book: Quark Gluon Plasma Publisher: Narosa ISBN: 978-81-8487-407-5 E-ISBN: E 978-81-8487-482-2 Publication Year: 2014 Author: Sudipan De, B. K. Shrivastava, T. K. Nayak</p>
20	<p>Predictions for Transverse Momentum Spectra and Elliptic Flow of Identified Particles in Xe+Xe Collisions at $\sqrt{s_{NN}} = 5.44$ TeV Using a Multi-phase Transport Model (AMPT) Name of the book: XXIII DAE High Energy Physics Symposium Publisher: Springer ISBN: 978-981-33-4407-5 E-ISBN: 978-981-33-4408-2</p>

Page: 563-567 Publication Year: 2021 Author: S. Tripathy, R. Rath, Sudipan De, S. De, M. Younus, R. Sahoo

Chapters in books:

No.	details
1	<p>Methods for the Study of Forward-backward Multiplicity correlation in Heavy Ion Collisions Name of the book: Quark Gluon Plasma Publisher: Narosa ISBN: 978-81-8487-407-5 E-ISBN: E 978-81-8487-482-2 Publication Year: 2014 Author: Sudipan De, B. K. Shrivastava, T. K. Nayak</p>
2	<p>Predictions for Transverse Momentum Spectra and Elliptic Flow of Identified Particles in Xe+Xe Collisions at $\sqrt{s_{NN}} = 5.44$ TeV Using a Multi-phase Transport Model (AMPT) Name of the book: XXIII DAE High Energy Physics Symposium Publisher: Springer ISBN: 978-981-33-4407-5 E-ISBN: 978-981-33-4408-2 Page: 563-567 Publication Year: 2021 Author: S. Tripathy, R. Rath, Sudipan De, S. De, M. Younus, R. Sahoo</p>

Conference Presentations:

Oral Presentation:

- Title:** Heavy quark diffusion in magnetic field
Conference: Hot QCD Matter 2022 (National level Conference)
Organizer: IIT Goa and Goa University
- Presented Performance Report in DST Performance Review Meeting at Mumbai, 16 -17 January, 2023

3. **“Probing the QCD matter with ALICE at the LHC”**
Invited talk at Workshop on Connecting Insights in Fundamental Physics: Standard Model and Beyond, Corfu, Greece, August 31 – September 11, 2019
4. **“Measurements of heavy-flavour decay leptons in Pb-Pb, Xe-Xe and p-Pb collisions with ALICE at the LHC ”**
Talk at 3rd Heavy-flavour Meet – 2019 conference, IIT Indore, India, March, 2019
5. **“Measurement of open heavy-flavour production in p-Pb collisions with ALICE at the LHC”**
Invited talk at MPI@LHC 2017 conference, Shimla, India, December, 2017
6. **“Measurements of open heavy-flavour production with ALICE at the LHC”**
Invited talk at BEACH2016 conference, Virginia, USA, July, 2016
7. **“Inclusive photon production at forward rapidities in pp collisions at LHC energies with the ALICE experiment”**
Talk at the XIII International Workshop on Hadron Physics, Brazil, March, 2015
8. **“Forward-backward multiplicity correlations in pp collisions in ALICE”**
Invited Talk at the “International Conference on Matter at Extreme Conditions: Then & Now”, Bose Institute, Kolkata, 15-17 January 2014
9. **“Inclusive photon production at forward rapidities for pp collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV in ALICE at the LHC”**
Talk at the ALICE Physics Week , Padova, Italy, May, 2013
10. **“Inclusive photon production at forward rapidities for pp collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV in ALICE at the LHC”**
Invited Talk at the “QGP Meet 2012” workshop, 3-6 July 2012
11. **“Inclusive photon production at forward rapidities for pp collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV in ALICE at the LHC”**
Talk at the ALICE Physics Week , Frascati, Italy, 16–20 April 2012
12. **“Inclusive photon production at forward rapidities for pp collisions at $\sqrt{s} = 0.9$ TeV and 7 TeV”**
Talk at the DAE Symposium on Nuclear Physics 2011, Andhra University, Dec 2011.

Poster Presentation:

- 1. Title:** Fractional energy loss of heavy quarks at RHIC and LHC energies
Conference: XXIV DAE-BRNS Symposium on High Energy Physics, 14-18 December 2020 (National level Conference)
Organizer: National Institute of Science Education and Research
- 2. Title:** Empirical study of the fractional energy loss of heavy quarks at the RHIC and LHC energies
Conference: International Conference on Physics and Astrophysics of Quark Gluon Plasma (ICPAQGP), 7th - 10th February, 2023 (International Conference)
Organizer: Variable Energy Cyclotron Centre (VECC), Kolkata
- 3. Title:** On heavy quark hall conductivity at finite magnetic field
Conference: International Conference on Physics and Astrophysics of Quark Gluon Plasma (ICPAQGP), 7th - 10th February, 2023 (International Conference)
Organizer: Variable Energy Cyclotron Centre (VECC), Kolkata
- 4. “Centrality dependence study of nuclear modification factor of electrons from heavy-flavour hadron decays in p-Pb collisions with ALICE at the LHC”**
Quark Matter Conference, Venice, Italy, 14-19 May, 2018 (International Conference)
- 5. “ $K^{*\pm}$ production in pp collisions at $\sqrt{s} = 5.02$ and 8 TeV with ALICE at the LHC”**
Quark Matter Conference, Venice, Italy, 14-19 May, 2018 (International Conference)
- 6. “Study of the quarkonia production in proton+proton collisions at the LHC and the role of Multiple Partonic Interaction”**
Quark Matter Conference, Venice, Italy, 14-19 May, 2018 (International Conference)
- 7. “Forward backward multiplicity correlations in pp collisions at $\sqrt{s} = 0.9$ TeV and 7 TeV ”**
Quark Matter Conference, Darmstadt, Germany, 2014 (International Conference)

8. “Inclusive photon production at forward rapidities for pp collisions at $\sqrt{s} = 0.9$ TeV and 7 TeV in ALICE at the LHC”

Quark Matter Conference, Anecy, 2011 (International Conference)

9. Expectation of photon multiplicity in p-p collisions at LHC energies”

DAE Symposium on Nuclear Physics 2011 2020 (National level Conference)

10. “Charged hadron production in proton-proton collisions at LHC energy”

DAE Symposium on Nuclear Physics 2011 2020 (National level Conference)

Conference Attended:

1. International Conference on Physics and Astrophysics of Quark Gluon Plasma (ICPAQGP), 7th - 10th February, 2023, Puri, Odisha, India (International Conference)
2. Hot QCD Matter 2022, Goa, India (National level Conference)
3. DAE-BRNS symposium on "Contemporary and Emerging Topics in High Energy Nuclear Physics (CETHENP 2022)". Variable Energy Cyclotron Centre, Kolkata. 15-17 November 2022. (National level Conference)
4. XXIV DAE-BRNS Symposium on High Energy Physics, 14-18 December 2020, NISER Bhubaneswar (National level Conference)
5. DAE-BRNS symposium on "Contemporary and Emerging Topics in High Energy Nuclear Physics (CETHENP 2019)". Variable Energy Cyclotron Centre, Kolkata, 25-27 November 2019 (National level Conference)
6. Workshop on Dynamics of QCD matter, 15-17 August, 2019, NISER Bhubaneswar (National level Conference)
7. Workshop on Connecting Insights in Fundamental Physics: Standard Model and Beyond, Corfu, Greece, August 31 – September 11, 2019 (International Conference)
8. 3rd Heavy-flavour Meet – 2019 conference, IIT Indore, India, March 18 - 20, 2019 (International Conference)
9. 9th International Workshop on Multiple Partonic Interactions at the LHC (MPI2017), Shimla, India, December 11 - 15, 2017 (International Conference)

10. XIIth International Conference on Beauty, Charm and Hyperons in Hadronic Interactions (BEACH2016), Virginia, USA, June 12 -18, 2016 (International Conference)
11. XIII International Workshop on Hadron Physics, Brasil, March 22 -27, 2015 (International Conference)
12. International Conference on Matter at Extreme Conditions: Then & Now, 15-17th January, 2014, Bose Institute, Kolkata (International Conference)
13. ALICE-INDIA Meet and HF Meet, April, 2013, IITB (International Conference)
14. QGP Meet 2012, VECC, Kolkata (International Conference)
15. ALICE Physics Week, Frascati , 16th – 20th April, 2012. (International Conference)
16. DAE Symposium on Nuclear Physics 2011, Andhra university, Visakhapatnam, 26th - 30th December 2011 (National level Conference)
17. Quark Matter 2011, Annecy, France. (International Conference)
18. The 6th International Conference on Physics and Astrophysics of Quark Gluon Plasma (ICPAQGP), Goa, India, Dec 06-10,2010. (International Conference)
19. 13th International Workshop on Advanced Computing and Analysis Techniques (ACAT) in Physics Research, Jaipur, India, 2010. (International Conference)

Webinar Attended:

1. One day State level webinar on “The story of gravity: from apple to the black hole and the gravitational wave”, Organized by Department of Physics, Dinabandhu Mahavidyalaya, Bongaon, 4th August, 2020.
2. One day State level webinar on “A Primer on Contour Integration” Organized by Department of Physics, Brahmananda Kesab Chandra College, Kolkata, 24th June, 2020.

3. One day State level webinar on “Electrical Signals Electronics and Instrumentation” Organized by Department of Physics, Bhairab Ganguly College, Kolkata, 27th July, 2020.

Conference/Webinar Organized:

1. Workshop on Dynamics of QCD matter, 15-17 August, 2019, NISER Bhubaneswar (National level Conference)
2. One day State level webinar on “The story of gravity: from apple to the black hole and the gravitational wave”, Organized by Department of Physics, Dinabandhu Mahavidyalaya, Bongaon, 4th August, 2020.

Student Supervision:

Supervised two summer interns to complete their summer project at NISER:

1. **Project Title:** Study of Anisotropic Flow in pp collisions at $\sqrt{s} = 13$ TeV

Student Name: Yogeshraj Nambisa

Institute: IISER Pune

Year: 2019

2. **Project Title:** The study of anisotropic flow in Pb-Pb Collisions at $\sqrt{S_{NN}} = 5.02$ TeV using A Multi-Phase Transport (AMPT) Model

Student Name: Archita Rani Das

Institute: VIT, Tamil Nadu

Year: 2019

B.Sc. 3rd year Project Supervise:

1. **Project Title:** Radial Flow and Kinetic Freeze-out in Proton-Proton Collision at $\sqrt{s} = 13$ TeV at the LHC

Student Name: Samrat Ash

Year: 2021

Institute: Ramakrishna Mission Residential College (Autonomous) Narendrapur
Kolkata, West Bengal, India- 700103

2. **Project Title:** System size dependence of kinetic freeze out properties at LHC energies

Student Name: Samyabrata Paria

Year: 2021

Institute: Ramakrishna Mission Residential College (Autonomous) Narendrapur
Kolkata, West Bengal, India- 700103

Supervision of Research Fellow under the DST Project (IFA18-PH220):

Name: Sarthak Satapathy

Position: Senior Research Fellow

Duration: 09.02.2022 to 24.01.2023