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Dr. Debadeepti Mishra

Designation : Assistant Professor (Guest Faculty) Qualification : M.Sc Physics(Gold Medalist) Date of Birth : 05/07/1991 Date of Joining : 06/07/2024 Tel : 8249515006 Email : dibyadeepti@gmail.com ORCID : https://orcid.org/0000-0003-3910-6796 VIDWAN : https://vidwan.inflibnet.ac.in/profile/553590 WOS : https://www.webofscience.com/wos/author/record/KYP-1771-2024

Area of Research : Experimental Heavy-ion Collisions in High Energy Physics

Courses Taught : Mathematical Physics, Quantum Mechanics, Classical Mechanics, Electronics, Nuclear and Particle Physics

Educational Qualification :

Degree	University/Board	Year of	Percentage	Remarks
		Passing	of marks	
Ph.D	National Institute of Science	2019	Awarded	
	Education and Research, Jatni,			
	Odisha			
M.Sc.	Department of Physics,	2013	90.7%	Gold Medalist
(Physics)	Utkal University, Vanivihar,			
	Bhubaneswar, Odisha			
B.Sc.	Swami Vivekananda Memorial	2011	89.625%	Best Graduate
	Auto. College, Jagatsinghpur,		(Hons)	
	Odisha			
Higher	Council of Higher Secondary	2008	68.17%	
Secondary	Education, Odisha			
Secondary	Board of Secondary Education,	2006	85.33%	
	Odisha			

Ph.D (Physics) 2013 -2019)

Thesis Title : "Particle Production Studies in Au+Au and U+U Collisions Using the STAR detector at RHIC and Understanding the Freeze-out Dynamics"
Institute : National Institute of Science Education and Research, Jatni, Bhubaneswar, Odisha - 752050
Supervisor : Prof. Bedangadas Mohanty, National Institute of Science Education and Research, Bhubaneswar, Odisha
Co-Supervisor : Dr. Lokesh Kumar, Panjab University, Chandigarh, Punjab
Date of Defense : 22nd November, 2019
Area of Research : Experimental Heavy-ion Collisions in High Energy Physics

Academic Awards:

- **Best Poster presentation** in the 61st DAE BRNS Symposium on Nuclear Physics, December, 2016
- University Gold Medal for First position in P.G Examination of Physics 2013, Utkal University
- Lalit Kumar Panda Memorial Gold Medal for Highest Percentage of Marks on P.G Examination of Physics 2013, Utkal University
- Dr. Indumati Sheshadri Memorial Gold Medal Highest Percentage of Marks in P.G Examination of Physics 201, Utkal University
- Ashok Kumar Mishra Memorial Gold Medal for First Position in P.G Examination of Physics 2013, Utkal University
- Anand Govind Cash Prize for Highest Mark in Physics in Degree Exam 2011, S.V.M. Autonomous College Jagatsinghpur
- Sripati Nanda Memorial Prize for Highest Mark in Degree Exam 2011, S.V.M. Autonomous College, Jagatsinghpur
- Lokanath Sahoo Memorial Cash Prize for Best Graduate in Degree Exam 2011, S.V.M. Autonomous College, Jagatsinghpur

Academic Achievements:

- NET (National Eligibility Test) for Lectureship in India 2014
- GATE (Graduate Aptitude Test in Engineering) in 2013

<u>Technical Skills:</u>

- Programming Languages: C, C++, Fortran, Visual Basic, ROOT, Scilab
- Database Management: Microsoft Access
- Operating Systems: Unix/Linux, Windows

> National Conferences:

- **Poster :** Freeze-out Parameters in Heavy-ion Collisions at AGS, SPS, RHIC and LHC Energies, **DAE Symposium on Nuclear Physics (2014)**, Varanasi, India.
- Poster : Identifies Particle Production in Au+Au Collisions at √s_{NN} = 14.5 GeV in STAR (For the STAR Collaboration), DAE Symposium on Nuclear Physics (2015), Andhra Pradesh, India.
- Talk : Identifies Particle Production in Au+Au Collisions at √s_{NN} = 14.5 GeV in STAR (For the STAR Collaboration), Asian Triangle Heavy Ion Conference (ATHIC) 2016, New Delhi, India.
- **Poster :** Freeze-out Conditions in proton-proton Collisions from SPS to LHC Energies, **DAE Symposium on Nuclear Physics (2016)**, Kolkata, India.
- Talk : Identified Particle Production in U+U Collisions at $\sqrt{s_{NN}} = 193$ GeV in STAR, XXII DAE Symposium on High Energy Physics (2016), New Delhi, India.
- **Poster :** Freeze-out Systematics due to the Hadron Spectrum, **DAE Symposium on Nuclear Physics (2017),** Punjab, India.

List of Conference Proceedings:

• Freeze-out Parameters in Heavy-ion Collisions at AGS, SPS, RHIC and LHC Energies

Sandeep Chatterjee, Sabita Das, Lokesh Kumar, D. Mishra et al. Proceeding of DAE Symp. on Nucl, Phys. **59** (2014) **714-715**

• Identified Particle Production in Au+Au Collisions at $\sqrt{s_{NN}} = 14.5$ GeV in STAR

Debadeepti Mishra (For the STAR Collaboration)

Proceedings of DAE Symp. on Nucl. Phys. 60 (2015) 764-765

• Identified Particle Production in Au+Au Collisions at $\sqrt{s_{NN}} = 14.5$ GeV in STAR

Debadeepti Mishra (For the STAR Collaboration) Proceedings of Asian Triangle Heavy Ion Conference (ATHIC) **59** (2016)

• Freeze-out Conditions in proton-proton Collisions from SPS to LHC Energies

Sabita Das, Debadeepti Mishra, Sandeep Chatterjee, and Bedangadas Mohanty

Proceedings of DAE Symp. on Nucl. Phys. 61 (2016) 782-783

• Identified Particle Production in U+U Collisions at $\sqrt{s_{NN}} = 193$ GeV in STAR

Debadeepti Mishra (For the STAR Collaboration) Proceedings of XXII DAE Symposium on High Energy Physics, Springer Proc. Phys. **203** (2018) **247-249**

 Freeze-out Systematics due to the Hadron Spectrum Sandeep Chatterjee, Debadeepti Mishra, Bedangadas Mohanty, Subhasis Samanta Proceedings of DAE Symp. on Nucl. Phys. 62 (2017) 920-921

List of Publications:

• Freeze out Parameters in Heavy-ion Collisions at AGS, SPS, RHIC and LHC Energies

Sandeep Chatterjee, Sabita Das, Lokesh Kumar, <u>D. Mishra</u>, Bedangadas Mohanty, Raghunath Sahoo and Natasha Sharma Advances in High Energy Physics, **349013** (2015)

• Freeze-out conditions in proton-proton Collisions at the Highest Energies Available at the BNL Relativistic Heavy Ion Collider and the CERN Large Hadron Collider

Sabita Das, <u>Debadeepti Mishra</u>, Sandeep Chatterjee, and Bedangadas Mohanty

Phys Rev. C 95, 014912, (2017)

 Freezeout systematics due to the Hadron Spectrum Sandeep Chatterjee, <u>Debadeepti Mishra</u>, Bedangadas Mohanty, Subhasis Samanta Phys Rev. C 96, 054907, (2017) • Bulk Properties of the System Formed Au+Au collisions at $\sqrt{s_{NN}} = 14.5$ GeV Using the STAR Detector at RHIC

J. Adam et al. (STAR Collaboration) (Primary authors : <u>Debadeepti Mishra</u>, Vipul Bairathi, Subhash Sinha, Md. Nasim, Lokesh Kumar, Bedangadas Mohanty, Declan Keane) Phys, Rev, C **101**, 024905 (2020)

• Pion, Kaon and (Anti-)Proton Production in U+U Collisions at $\sqrt{s_{_{NN}}} = 193$ GeV in STAR

J. Adam et al. (STAR Collaboration) (Primary authors : <u>Debadeepti Mishra</u>, Lokesh Kumar and Bedangadas Mohanty) Phys. Rev. C **107**, 024901 (2023)

Personal Profile:

Father's Name	•	Radha Raman Mishra
Mother's Name	•	Gourirani Mishra
Spouse Name	:	Nirakar Sahoo
Date of Birth	:	5 th July 1991
Gender	:	Female
Marital Status	:	Married
Contact address	:	Flat No. AG-04, Gouri Shankar Residency, Lane -1,
	Laxi	mi Vihar, Po :- Sainik School, Bhubaneswar – 751005,
	Odisha	
Language Known	:	Odia, Hindi, English

Professional Referees:

· Dr. Bedangadas Mohanty

Position: Professor, Chairperson, School of Physical Sciences, NISER, Jatani Email: <u>bedanga@niser.ac.in</u>, <u>bedanga@gmail.com</u>

• Dr. Lokesh Kumar

Position: Assistant Professor, Panjab University, Chandigarh Email: <u>lokesh.pu@gmail.com</u>

Date: 30-07-2024

Place: Bhubaneswar

(Debadeepti Mishra)