# *Academic Profile*



**Name:** **Dr. Sabita Das**

**Designation: Assistant Professor**

**Department: Physics**

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**Teaching Experience:**

- **Asst. Prof. (Jan 2018 ~) :** Kuntal Kumari Sabat Women's College, Balasore, Odisha

**Specialization: High Energy Physics**

**Educational Qualification:**.

- **Post Doctoral Fellow (May 2016 - Jan 2018):** Central China Normal University, Hubei, China.
- **Post Doctoral Fellow (Jan 2016 - May 2016):** National Institute of Science Education and Research (NISER), Bhubaneswar, India.
- **Visiting Scientist (Sept 2015 - Dec 2015):** Institute of Physics, Bhubaneswar, India.
- **Ph. D. (2015):**Institute of Physics (Homi Bhaba National Institute), Bhubaneswar, Odisha, India
- **Research Assistant (Aug 2012 - Aug 2013)**: Brookhaven National Laboratory, Upton, Newyork, USA
- **Diploma in Advance Physics (Aug 2009):** Institute of Physics (HomiBhaba National Institute), Bhubaneswar, Odisha, India
- **M.Sc in Physics (2008)**: Utkal University, Bhubaneswar, Odisha
- Qualified National Eligibility Test (NET - 2009)
- Qualified Graduate Aptitude Test in Engineering (GATE - 2009, GATE - 2010)
- Qualified Joint Entrance Screening Test (JEST - 2009)

**Publications:**

**Research Interests:**

**Experimental High Energy Physics (STAR Collaboration)**

- Quantum ChromoDynamics (QCD) phase diagram
- Signatures of Quark-Gluon Plasma (QGP)
- Nuclei production in ultrarelativistic heavy-ion collisions
- Thermodynamic Models

***Selected Publications***

- Bulk Properties of the System Formed in Au+Au Collisions at √sNN= 14.5 GeV.

J. Adam ....S. Das et al. (STAR Collaboration),***Phys. Rev. C 101 (2020) 24905***

- Beam energy dependence of (anti-)deuteron production in Au+Au collisions at RHIC.

J. Adam ....S. Das et al. (STAR Collaboration), ***Phys. Rev. C 99 (2019) 64905***

- Strangeness freeze-out: role of system size and missing resonances

  S Chatterjee, S Das, A K Dash, D Mishra, B Mohanty and S Samanta,

  ***EPJ Web of Conf. 171 (2018) 14002***.

▪ Bulk Properties of the Medium Produced in Relativistic Heavy-Ion Collisions from the Beam Energy Scan Program. L. Adamczyk, ..., S. Das et al. (STAR Collaboration), ***Phys. Rev. C 96 (2017) 044904***.

▪ 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, Debadeepti Mishra, SandeepChatterjee, and BedangadasMohanty, ***Phys. Rev. C 95 (2017) 014912***.

▪ Freeze out parameters in heavy-ion collisions at AGS, SPS, RHIC, and LHC energies. SandeepChatterjee, Sabita Das, and BedangadasMohanty et al., ***Adv. in High Eng. Phys. (2015) , Review Article ID: 349013***

▪ Cosmic ray test of Mini-drift Thick Gas Electron Multiplier for Transition Radiation Detector. Shuai Yang, Sabita Das, and ZhangbuXu et al., ***Nucl. Instr. Meth. A 785 (2015) 33–39***.

- Centrality dependence of freeze-out parameters from the beam energy scan at STAR.

Sabita Das (for the STAR Collaboration),***Nucl. Phys. A 904 (2013) 891c***

**Selected Seminars/Workshops/Conferences Attended:**

- ALICE-STAR-INDIA Meeting, NISER, Bhubaneswar, Odisha (Sept. 17-20, 2018).
- Fluctuation and critical point EMMI International Symposium, CCNU, Wuhan, China (Oct. 10-14, 2017).
- The 2nd CBM-STAR joint Workshop, CCNU, Wuhan, China, Sep. 23, 2017.
- International Conference on Quark Matter, Chicago, Illinois, USA (Feb. 5-11, 2017).
- XXII DAE-BRNS High Energy Physics Symposium, New Delhi, India (Dec. 12 - 16, 2016).
- Workshop on Hadron Production and fluctuations in Heavy ion Collisions, CCNU, Wuhan, China (October 18 - 21, 2016).
- International Conference on Hard and Electromagnetic Probes of High- Energy Collisions, Central China Normal University, Wuhan, China (Sept. 23-27, 2016).
- Workshop on QCD Phase Structure III, Central China Normal University, Wuhan, China (Jun. 6-9, 2016).
- Asian Triangular Heavy Ion International Conference, New Delhi, India (Feb. 15-19, 2016).
- STAR Regional Meeting, NISER, Bhubaneswar, India (Feb. 12-13, 2016).
- DAE-BRNS Symposium on Nuclear Physics, PrasanthiNilayam, Andhra Pradesh, India (Dec. 7-11, 2015).
- International Conference on Physics and Astrophysics of Quark Gluon Plasma, Kolkata, India (Feb. 1-6, 2015).
- International Symposium on Multi-particle Dynamics, Bologna, Italy (Sept. 8-12, 2014).
- International Conference on Strangeness in Quark Matter, Birmingham, UK (July 22-27, 2013).
- RHIC and AGS Annual Users Meeting, Brookhaven National Laboratory, USA (June 25-28, 2013).
- STAR Analysis Meeting, UCLA, California, USA (Nov. 28 - Dec. 3, 2012).
- International Conference on Quark Matter, Washington, D.C., USA (Aug. 13-18, 2012).
- Quark Gluon Plasma Meet, Variable Energy Cyclone Centre, Kolkata, India (July 3-6, 2012).
- DAE Symposium on Nuclear Physics, Visakhapatnam, Andhra Pradesh, India (Dec. 26-30, 2011).

- VIIIth SERC School on Experimental High Energy Physics, Variable Energy Cyclone Centre, Kolkata, India (June 20 - July 10, 2011)

**Administrative Assignments:**

- Head of the Department ( Jan 2018 ~ )
- Member of UG Admission Team ( Jan 2018 ~ )
- Member of IQAC ( 2019 ~)
- Member of Purchase committee (2018~)
- Member of Grievance Redressal, Anti- Ragging and Anti- sexual Harassment (2018~)
- Member of Athletic and Dramatic Society (2018)
- Officier in charge (OIC) Proctorial (2019 ~)
- Officier in charge Time Table (2018)
- Associate OIC Scholarships (2018~ )
- OIC NSS Team (2018)

**Extra Institutional Affiliation:**

**Extraordinary Feats:**