Bolpur College, Bolpur, Birbhum-731204, W.B

DEPARTMENT OF PHYSICS

Teachers' Profile

Name: Amit Kumar Mondal

Date of Birth: 08/07/1992

Nationality: Indian

Sex: Male

Marital Status: Married

Current Academic Position: Assistant Professor in Physics

Email: amit.mndl2012@gmail.com

Experience: a. In this Institution: Six years

b. Total teaching experience in college: Six years

1. Academic Qualifications:

Name of Examination passed	Name of Board/University/ Institution	Division/class	Year of passing	% of Marks obtained	Subjects taken
M.P. (10^{th} standard)	West Bengal Board of Secondary Education	First	2007	84.62	Beng, Eng, Hist, Geo, P.Sc, L.Sc, Math, Work Education
Pre-Degree (12^{th} standard)	Visva-Bharati University	First	2009	74.45	Beng, Eng, Math, Phy, Chem, Bio, Tailoring(vocational)
B.Sc. (Hons.)	Visva-Bharati University	First	2012	68.30	Physics (Hons), Mathematics, Chemistry
M.Sc (Physics)	Visva-Bharati University	First	2014	76.10	Physics
CSIR-UGC NET	CSIR-UGC	JRF	June-2015	Not Applicable	Physical Science

2. Research Experience:

a. Doctoral:

Degree	Name of University/ Institution	Subject	Year of award	Proposed Title of the Thesis
Ph.D.	Visva-Bharati	Physics	---	Investigation of different modes of nuclear excitation in A ≈ 80 and 100 regions

3. Participation in Refresher Course, Orientation, Workshop, Short term course:

Sl.No	Name of the Programme	Duration with Date	Venue
1	Short Duration Lecture Workshop on Recent Trends in Interdisciplinary Sciences	12.02.2018 to 14.02.2018	Integrated Science Education and Research Centre(ISERC), Visva-Bharati, Santiniketan-731235
2	Workshop on SCILAB	17.08.2018 to 18.08.2018	Department of Physics of The University of Burdwan, Golapbag campus
3	Telescope Making and Science Popularization Workshop: A public outreach programme for promotion of Science	18.03.2019 to 20.03.2019	Department of Physics, Visva-Bharati, Santiniketan in association with Inter University Centre for Astronomy and Astrophysics (IUCAA), Pune
4	Online Faculty Induction Programme	13 Nov'21 to 17 Dec'21	Aligarh Muslim University
5	Online Refresher Course	20 July'22 to 02 Aug'22	Aligarh Muslim University

4. Detailed List of publication:

a) **Research papers and Articles:**

Sr. No	Name of Journal	Title of Research Paper	First author/Co-author	Impact Factor	DOI number	Year of Publication
1.	European Physical Journal A	High spin states in ^{63}Cu.	co-author	2.48	DOI: 10.1140/epja/i2018-12518-2	2018
2.	Physical Review C	In-beam spectroscopic study of ^{63}Zn	co-author	3.08	DOI: 10.1103/PhysRevC.100.034314	2019
3.	Physical Review C	Spectroscopic investigation of complex nuclear excitations in ^{66}Ga	co-author	3.29	DOI: 10.1103/PhysRevC.102.024328	2020
4.	Physical Review C	Evolution of collectivity and shape transition in ^{66}Zn	co-author	3.29	DOI: 10.1103/PhysRevC.102.064313	2020
5.	Physical Review C	Investigation of different possible excitation modes in neutron-rich ^{78} As	first-author	3.29	DOI: 10.1103/PhysRevC.102.064311	2020
6.	Indian Journal of Pure & Applied Physics	Probing the low-lying level structure of ^{94}Zr through β^- decay	co-author	0.846	DOI: 10.56042/ijpap.v58i4.67594	2020
7.	Physical Review C	Measurement of relative isotopic yield distribution of even-even fission fragments from $^{235}U(n_{th}, f)$ following γ-ray spectroscopy	co-author	3.10	DOI: 10.1103/PhysRevC.103.044322	2021
8.	Physical Review C	Alignment effects in the medium-spin level structure of ^{78}Se	co-author	3.04	DOI: 10.1103/PhysRevC.105.034328	2022
9.	Physics Letters B	Evidence for competing bi-faceted compound nucleus fission modes in ^{232}Th(α ,f) reaction	co-author	4.4	https://doi.org/10.1016/j.physletb.2021.136848	2022
10.	Physical Review C	Investigation of the low- and medium-spin level structure in ^{77}As	first-author	3.1	DOI: 10.1103/PhysRevC.107.064320	2023

b) **Proceedings:**

Sr. No	Name of the Conference Seminar	Title of Research Paper	Place & Date	Affiliating Institute at the time of publication	Year of publication
1.	62nd DAE-BRNS Symposium on Nuclear Physics	Low- and Medium-Spin Level Structure of neutron rich ^{96}Sr: Competition between Vibrational and Rotational modes of excitations	20-24 Dec 2017 Patiala, India	Visva-Bharati	2017
2.	DAE International Symposium on Nuclear Physics	Co-existing excitation modes in neutron rich nucleus- ^{98}Zr	09-14 Dec 2018 Anushakti Nagar, Mumbai	Visva-Bharati	2018
3.	66th DAE Symposium on Nuclear Physics	Yrast Spectroscopy of ^{77}As	01-05 Dec 2022 Guwahati, India	Visva-Bharati	2022

5. List of Papers presented in the Seminar/Conference

Sl. No	**Title of Conference/ Seminar**	**Organised By**	**Date**	**Title of the Paper**	**National/International level**
1	62nd DAE-BRNS Symposium on Nuclear Physics	DAE-BRNS	20.12.2017 to 24.12.2017	Low- and Medium-Spin Level Structure of neutron rich ^{96}Sr: Competition between Vibrational and Rotational modes of excitations	National
2	DAE International Symposium on Nuclear Physics	DAE	09.12.2018 to 14.12.2018	Co-existing excitation modes in neutron rich nucleus- ^{98}Zr	International
3	Frontiers in Gamma Ray Spectroscopy (FIG 2018)	Tata Institute of Fundamental Research, Mumbai	12.03.18 to 14.03.18	Low- and medium-spin level structures in neutron-rich ^{96}Sr and ^{98}Zr nuclei	International
4	International Conference on Recent Issues in Nuclear and Particle	Department of Physics, Visva-Bharati, Santiniketan 731235, India Sponsored by DST	03.02.19 to 05.02.19	Co-existing excitation modes in neutron rich nucleus- ^{98}Zr	International

5	66th DAE Symposium on Nuclear Physics	DAE	01.12.2022 to 05.12.2022	Yrast Spectroscopy of ^{77}As	National

6. Research Citations/ Member of Editorial board of research journals:

Citations: 27 and h-index: 3

7. Development of Online courses/ ADD-ON courses:

Add-on course title: Computer Plotting Softwares (2022-2023 odd semester).

8. Membership of Organizations: Member of Breakthrough Science Society.

9. College/ Department additional duties performed (Co-ordinator/Bursar/ IQAC/ Governing Body member etc):

Acted as H.O.D., Physics, Bolpur College from 2019-2022.

10. Teaching and Research Statement:

Subject contents: Relates to Mathematical Physics (I, II, III), Electricity & Magnetism, Waves and Optics, Thermal Physics, Digital Systems and Applications, Analog Systems and Applications, Solid State Physics, Statistical Mechanics, Classical Dynamics, and Nuclear and Particle Physics.

Mode of Preference in Teaching: Preference is given in disseminating the classes by using the ICT or Computer-aided methods. Encourage the students to actively take part in the Discipline related and other Co-curriculum activities in attaining overall and all round development of the students both mentally and physically.

Research and Teaching Experience: Eight years (08 yrs.) of Research experience in Experimental Nuclear Physics and six years (06 yrs.) of teaching experience.

Area of Research Interest: Nuclear Spectroscopy.