

Faculty Profile

1. Name: Buddhadev Mukherjee
2. Designation: Associate Professor
3. Email(s): buddhadev.mukherjee@visva-bharati.ac.in
4. Date of Birth: 28/01/1972
5. Contact number(s): 9735893022 / 9476408604
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7. Research ID (Google Scholar, ORCID ID, Scopus ID, WOS ID, Vidyan ID, Research Gate):
 Google scholar ID: 0hpgLkUAAAJ;
 ORCID ID: 0000-0001-5081-0747;
 Scopus ID: 22998377200;
 Researcher ID: AAW-4391-2020;
 Vidwan-ID: 163606;
8. Membership of Learned Societies:
9. Homepage (If any): https://www.visvabharati.ac.in/index.php?url_key=BuddhadevMukherjee
10. Publication Summary:
 - (a) No. of Research papers - 104
 - (b) No. of Book Chapters -
 - (c) No. of Conference papers - 59
 - (d) h-index - 12
 - (e) i-10 index - 17
11. Date of Joining Visva-Bharati Service: 15/09/2005
12. Education:

Degree	Year	University/Institution
Ph. D.	2001	Jawaharlal Nehru University (JNU), New Delhi
M. Sc. / M. Tech.	1996	University of Burdwan, Burdwan
B. Sc.	1993	Abhedanandya Mahavidyalaya, Sainthia

13. Academic Positions held (in reverse chronological order)

Sl. No.	Positions held	Institution	Period
1	Postdoctoral Researcher	Institute of Kern and Hadronen Physics, Dresden, GERMANY	2001-2002
2	Postdoctoral Researcher	Kernphysics Versnellar	2002-2004

		Institute (KVI), Groningen, The Netherlands	
3	Senior Research Associate	SINP, Kolkata	2005

14. Areas of Research: experimental nuclear physics, Nuclear Physics, Detectors Gamma-Rays Heavy ion Physics, Radiation Detection system, Experimental nuclear Physics, Radioactivity, Gamma Spectroscopy, Ionizing Radiation detector, Nuclear Structure, Spectrometers, Liquid-scintillation Counting system, Computer aided data Analysis, Theoretical Nuclear Physics, Nuclear Instrumentation Nuclear Electronics Data Acquisition, and Computing.

15. Subject Specialization: Nuclear Physics

16. Courses Teach / Taught:

Undergraduate Courses	Thermal Physics, Mechanics, Laboratory
Postgraduate Courses	Nuclear and Particle physics, Nuclear Physics (special papers), Nuclear Physics special laboratory, Nuclear Astrophysics, General laboratory
Ph.D. Course-work	Compulsory paper, Nuclear physics (elective papers), Research review paper

17. Research Guidance:

(a) No. of Postdoctoral students (Completed / Ongoing)

(b) No. of Doctoral students (Completed / Ongoing) 7

(c) No. of M.Sc. Dissertations: 25

18. Research Collaboration (National / International): National: Inter University Accelerator Center (IUAC), New Delhi, Saha Institute of Nuclear Physics (SINP), Kolkata, Variable Energy Cyclotron Centre (VECC), Kolkata, TIFR, Mumbai, BARC Mumbai, BHU, Varanasi, Himachal Pradesh University, Shimla, Delhi University, New Delhi;
International: GANIL, Caen, France

19. Research Grants/Projects

Sl. No.	Project Title	PI/Co-PI	Funding Agency	Amount	Completed/Ongoing
1	Lifetime Measurements of Excited States in ^{66}Zn and ^{66}Ga using Doppler Shift	PI	Science & Engineering Research Board (SERB), New Delhi	INR 2087272	Completed

	Attenuation Method (DSAM)				
2	Measuring prompt particle decays in $N \approx Z \approx 28$ nuclei using silicon strip detectors	Science & Engineering Research Board (SERB), New Delhi	PI	INR 4137690	Completed
3	Measurement on spectroscopic studies of $N=Z=28$ Nuclei	Inter-University Accelerator Centre, New Delhi	PI	INR 649981	Completed
4	Lifetime Measurements of Excited States in ^{66}Zn and ^{66}Ga	Inter-University Accelerator Centre, New Delhi	PI	INR 975000	Completed
5	Search of octupole collectivity in $^{62,64,66}\text{Zn}$ through alpha-induced measurements	UGC-DAE CSR, Indore	PI	INR 1329127	Completed
6	Spectroscopy study of rare earth nuclei	Department of Atomic Energy, BRNS Mumbai	Co-PI	INR 2459200	completed

20. Professional Recognition/ Award/ Prize/Fellowship

Sl. No.	Name of Award	Awarding Agency	Year
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21. Books / Book Chapters

Sl. No.	Title	Name of Author(s)	Publisher	Year of Publication

22. Detail of Patent received (if any)

Sl. No.	Patent Title	Name of Applicant(s)	Patent No.	Award Date	Agency/Country

23. Talks Delivered at International / National Conferences/Seminars/Symposium:

24. List of Scientific Publications:

S. No	Author(s)	Title	Name of Journal	Volume	Page	Year
1	Aniruddha Dey, D.C. Biswas, A. Chakraborty, S. Mukhopadhyay, A.K. Mondal, B. Mukherjee, G. de France, G. Simpson, C.A. Ur, W. Urban	Fission Fragment Spectroscopy of $^{235}\text{U}(\text{n},\text{f})$	Nuclear Physics A 10.1016/j.nuclphysa.2024.122962	1053	122962	2024
2	A. K. Mondal, A. Chakraborty, K. Mandal, U. S. Ghosh, Aniruddha Dey, Saumyajit Biswas, B. Mukherjee, Krishichayan, S. Chatterjee, S. K. Das, S. Samanta, R. Raut, and S. S. Ghugre, S. Mukhopadhyay, S. Rajbanshi, R. Banik, S. Bhattacharyya, S. Nandi, S. Chakraborty, S. Bhattacharya, G. Mukherjee, S. Ali, A. Goswami, R. Chakrabarti, A. Kumar, R. Goswami	Investigation of the low- and medium-spin level structure in ^{77}As	Phys. Rev. C 10.1103/PhysRevC.107.064320	107(6)	064320	2023
3	K. Mandal, A. Chakraborty, A. K. Mondal, U. S. Ghosh, Aniruddha Dey, Saumyajit Biswas, B. Mukherjee, S. Rai, S. Chatterjee, S. K. Das, S. Samanta, R. Raut, S. S. Ghugre, S. Bhattacharyya, S. Nandi, S. Bhattacharya, G. Mukherjee, S. Ali, A. Goswami, S. Mukhopadhyay, Krishichayan, R. Banik, R. Chakrabarti, V. Kumar, and A. Kumar	Alignment effects in the medium-spin level structure of ^{78}Se	Phys. Rev. C 10.1103/PhysRevC.105.034328	105	034328	2022

4	Aniruddha Dey, D.C. Biswas, A. Chakraborty, S. Mukhopadhyay, A. K. Mondal, L. S. Danu, <u>B. Mukherjee</u> , S. Garg, B. Maheshwari, A. K. Jain, A. Blanc, G. de France, M. Jentschel, U. Koster, S. Leoni, P. Mutti, G. Simpson, T. Soldner, C. A. Ur and W. Urban	Evidence for competing bifaceted compound nucleus fission modes in $^{232}\text{Th}(\alpha, f)$ reaction	Physics Letters B 10.1016/j.physletb.2021.136848	825	136848	2021
5	Aniruddha Dey, D.C. Biswas, A. Chakraborty, S. Mukhopadhyay, A. K. Mondal, L. S. Danu, <u>B. Mukherjee</u> , S. Garg, B. Maheshwari, A. K. Jain, A. Blanc, G. de France, M. Jentschel, U. Koster, S. Leoni, P. Mutti, G. Simpson, T. Soldner, C. A. Ur and W. Urban	Measurement of relative isotopic yield distribution of even-even fission fragments from $^{235}\text{U}(n_{th}, f)$ following ray spectroscopy	PHYSICAL REVIEW C http://dx.doi.org/10.1103/PhysRevC.103.044322	103	044322	2021
6	U. S. Ghosh ; <u>B. Mukherjee</u> ; S. Rai; A. Biswas; A. K. Mondal; A. Chakraborty, S. Chakraborty ; G. Mukherjee; I. Bala; S. Muralithar; R. P. Singh	Spectroscopic investigation of complex nuclear excitations in ^{66}Ga	PHYSICAL REVIEW C 10.1103/PhysRevC.102.024328	102	024328	2020
7	A. K. Mondal, A. Chakraborty, K. Mandal, U. S. Ghosh, Aniruddha Dey, Saumyajit Biswas, <u>B. Mukherjee</u> , and S. Rai	Investigation of different possible excitation modes in neutron rich ^{78}As	PHYSICAL REVIEW C 10.1103/PhysRevC.102.064311	102	064311	2020

8	S. Rai, U. S. Ghosh, <u>B. Mukherjee</u> , A. Biswas, A. K. Mondal, K. Mandal, A. Chakraborty, S. Chakraborty, G. Mukherjee, A. Sharma, I. Bala, S. Muralithar, and R. P. Singh	Evolution of collectivity and shape transition in ^{66}Zn	PHYSICAL REVIEW C http://dx.doi.org/10.1103/PhysRevC.102.064313	102	064313	2020
9	Saumyajit Biswas, A. Chakraborty, A. Jhingan, D. Arora, B. R. Behera, Rohan Biswas, Nabendu Kumar Deb, S. S. Ghugre, Pankaj K. Giri, K. S. Golda, G. Kaur, A. Kumar, M. Kumar, <u>B. Mukherjee</u> , B. K. Nayak, A. Parihari, N. K. Rai, S. Rai, R. Raut, Rudra N. Sahoo, and A. K. Sinha	Quasielastic scattering measurements in the $^{28}\text{Si}+^{142,15}\text{Nd}$ systems	PHYSICAL REVIEW C 10.1103/PhysRevC.102.014613	102	014613	2020
10	U. S. Ghosh, <u>B. Mukherjee</u> and S. Rai	Shell model study of nuclear structure in $^{63,65,67}\text{Ga}$	International Journal of Modern Physics E 10.1142/S0218301320500457	29 (7)	2050045	2020
11	Saumyajit Biswas, A. Chakraborty, A. Jhingan, D. Arora, B. R. Behera, Rohan Biswas, Nabendu Kumar Deb, S. S. Ghugre, Pankaj K. Giri, K. S. Golda, G. Kaur, A. Kumar, M. Kumar, <u>B. Mukherjee</u> , B. K. Nayak, A. Parihari, N. K. Rai, S. Rai, R. Raut, Rudra N. Sahoo, and A. K. Sinha	Quasi-elastic scattering measurements of the $^{28}\text{Si} + ^{142}\text{Nd}$ system at back-angle	Indian Journal of Pure & Applied Physics https://www.researchgate.net/publication/342991551 <u>Quasi elastic scat</u>	58	409	2020

			<u>ring measurements of the $^{28}\text{Si } ^{142}\text{Nd}$ system at back-angle</u>			
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12	U. S. Ghosh ; <u>B. Mukherjee</u> ; S. Rai; A.Biswas; A. K. Mondal; A.Chakraborty, S. Chakraborty ; G.Mukherjee; I.Bala; S. Muralithar; R. P. Singh	In-beam spectroscopic study of ^{63}Zn	PHYSICAL REVIEW C 10.1103/PhysRevC.100.034314	100	034314	2019
13	S. Rai, <u>B.Mukherjee</u> , U.S. Ghosh, A. Biswas, A. Chakraborty, A.K. Mondal, S. Chakraborty, G. Mukherjee, I. Bala, S. Muralithar and R.P. Singh	High Spin States in ^{63}Cu	The European Physical Journal A 10.1140/epja/i2018-12518-2	54 (5)	84	2018
14	U. Datta Pramanik, J. Ray, P. Banerjee, R.K. Bhowmik, S. Chakraborty, A. Chakraborty, R.Garg, S.Goyal, S.Ganguly, S.Kumar, S. Mandal, <u>B.Mukherjee</u> , S.Muralithar, D.Negi, M.Saxena, K. Selvakumar, A. Rahaman, I.Ray, Purnima Singh, A.K.Singh, R.P. Singh	Cluster structure near beta-stability and far from stability	AIP Conference Proceedings https://doi.org/10.1063/1.5078839	2038	020020	2018

15	U. S. Ghosh ; <u>B. Mukherjee</u> ; S. Rai; A.Biswas; A. K. Mondal; A.Chakraborty, S. Chakraborty ; G.Mukherjee; I.Bala; S. Muralithar; R. P. Singh	investigation on single particle excitation in ^{63}Zn	Proceedings of the International Conference on Recent issues in Nuclear and Particle Phys.(RINP2), held at Visva Bharati during 3-5 February	1	47	2019
16	S. Rai, <u>B. Mukherjee</u> , U.S. Ghosh, A. Biswas, A. Chakraborty, A.K. Mondal, S. Chakraborty, G. Mukherjee, I. Bala, S. Muralithar, and R.P. Singh	Evolution of Collectivity in ^{66}Zn	Proceedings of the International Conference on Recent issues in Nuclear and Particle Phys.(RINP2), held at Visva Bharati during 3-5 February	1	41	2019

17	K. Mandal; A.K. Mondal; A. Chakraborty; S. Ali; R. Banik; S. Bhattacharyya; S. Bhattacharya; S. Biswas; D.C. Biswas; S. Chattarjee ; S.K. Das ; U.S. Ghosh ; S.S. Ghugre ; Krishichayan ; A. Goswami; A. Kumar; V. Kumar; <u>B. Mukherjee</u> ; G. Mukherjee ; S. Mukhopadhyay ; S. Nandi ; R. Raut ; S. Samanta	Investigation of the medium-spin level structure of ^{78}Se with alpha beam	Proceedings of the International Conference on Recent issues in Nuclear and Particle Phys.(RINP2), held at Visva Bharati during 3-5 February	1	26	2019
18	A. Biswas, Uday Shankar Ghosh; Kiranmay Mondal; <u>Buddhadev Mukherjee</u> ; Siddharth Rai; Anagha Chakraborty ; Anupriya Sharma; S Muralithar ; R. P. Singh; Ushasi Dutta,	Gamma-ray spectroscopy in ^{70}As	Proceedings of the International Conference on Recent issues in Nuclear and Particle Phys.(RINP2), held at Visva Bharati during 3-5 February	1	8	2019
19	K. Mandal, A.K. Mondal, A. Chakraborty, S. Ali, R. Banik, S. Bhattacharya, S. Bhattacharyya, D.C. Biswas, S. Biswas, S. Chattarjee, S.K. Das, A. Dey, U.S. Ghosh, S.S. Ghugre, A. Goswami, Krishichayan, A. Kumar, V. Kumar, <u>B. Mukherjee</u> , G. Mukherjee, S. Mukhopadhyay, S. Nandi, S. Rai, R. R. Raut, and S. Samanta	Investigation of the medium-spin level structure of ^{78}Se	Proceedings of the DAE International Symp. on Nucl. Phys.(refereed)	63	274	2018

20	S.Rai, <u>B. Mukherjee</u> , U. S. Ghosh, A. Biswas, A. K. Mondal, K.Mandal, A. Chakraborty, G. Mukherjee, S. Nandi, S. Chakraborty, A. Sharma, S.S. Bhattacharjee, I. Bala, R. Garg, S. Muralithar, and R.P. Singh	In-beam γ ray spectroscopy of ^{66}Zn	Proceedings of the DAE International Symp. on Nucl. Phys.(refereed)	63	240	2018
21	U. S. Ghosh, S.Rai, <u>B. Mukherjee</u> , A. Biswas, A. K. Mondal, K.Mandal, A. Chakraborty, G. Mukherjee, S. Nandi, S. Chakraborty, A. Sharma, S.S. Bhattacharjee, I. Bala, R. Garg, S. Muralithar, and R.P. Singh	In-beam γ ray spectroscopy of ^{63}Zn	Proceedings of the DAE International Symp. on Nucl. Phys. (refereed)	63	130	2018
22	U.S. Ghosh, <u>B. Mukherjee</u> , S. Rai, A. Biswas. Influence of	$1h9/2$, $1i13/2$ and $3s1/2$ orbitals on shapes of odd-mass Bi, At and Fr isotopes in mass region ~ 200	Proceedings of the DAE International Symp. on Nucl. Phys. (refereed)	63	276	2018

23	U.S. Ghosh, <u>B. Mukherjee</u> , S. Rai and A. Biswas	Potential energy surfaces of even-mass 190–200 Po isotopes and shape driving effect of $\hbar/2$ proton	Proceedings of the DAE BRNS Symposium on Nuclear Physics (refereed)	62	290	2017
24	U.S. Ghosh, <u>B. Mukherjee</u> , S. Rai and A. Biswas	Systematic study of potential energy surfaces of odd mass Astatine isotopes	Proceedings of the DAE BRNS Symposium on Nuclear Physics (refereed)	62	192	2017

25	U. S. Ghosh, S.Rai, B. Mukherjee, A. K. Mondal, K. Mandal, S.Barman, A. Goswami, S. Biswas, A. Chakraborty, G. Mukherjee, S. Chakraborty, A. Sharma, I. Bala, S. Muralithar, R. P. Singh	Re-investigation of some low and medium-spin level structure in ^{67}Ga	Proceedings of the DAE BRNS Symposium on Nuclear Physics	67	46	2022
26	A. K. Mondal, A. Chakraborty, K. Mandal, U. S. Ghosh, Aniruddha Dey, Saumyajit Biswas, B. Mukherjee, and S. Rai et al.	Yrast Spectroscopy of ^{77}As	Proceedings of the DAE Symp. on Nucl. Phys.	66	104	2022
27	Aniruddha Dey, D. C. Biswas, A. Chakraborty, S. Mukhopadhyay, A. K. Mondal, K. Mandal, B. Mukherjee, R. Chakrabarti, B. N. Joshi, L. A. Kinage, S. Chatterjee, S. Samanta, S. Das, Soumik Bhattacharya, R. Banik, S. Nandi, R. Raut, G. Mukherjee, S. Bhattacharyya, S. S. Ghugre, A. Goswami	Delving deep into the multi-faceted fission modes through fission fragment spectroscopy	Proceedings of the DAE Symp. on Nucl. Phys.	65	32	2021
28	R. Shil, K. Banerjee, A. Chakraborty, R. Santra, A. S. Roy, A. Dey, S. Manna, A. Sen, D. Paul, T. K. Rana, P. Karmakar, R. Pandey, S. Kundu, P. Roy, S. Mukhopadhyay, D. Pandit, D. Mondal T. K. Ghosh, G. Mukherjee, S. Sadhukhan, J. Sadhukhan, B. Mukherjee, C. Bhattacharya	Collective enhancement of nuclear level density in ^{162}Ho	Proceedings of the DAE Symp. on Nucl. Phys.	66	599	2022
29	B. Kharpuse, B. Mukherjee, A. Chakraborty, S. Biswas, K. Debnath, A. Bairagya, A. Basak, A. Goswami, S. Barman, A. K. Mondal, U. S. Ghosh	Shell Model Description of Octupole Correlation in ^{66}Zn and $^{66,68}\text{Ge}$.	Proceedings of International conference on recent trends in physics(ICRTP-2023).At: DAVV, Indore	DOI: 10.13140/RG.2.2.27398.86085		2023

30	S. Barman, B. Mukherjee, A. Chakraborty, U. S. Ghosh, S. Rai, A. Biswas, A. K. Mondal, K. Mandal, A. Goswami, S. Biswas, U. D. Pramanik, A. Sharma, I. Bala, S. Muralithar, R. P. Singh, Yashraj, K. Katre	In search of low-energy nuclear structure of ^{69}Ge by means of fusion-evaporation reactions	Proceedings of the DAE Symp. on Nucl. Phys.	66	258	2022
31	Aniruddha Dey, D. C. Biswas, A. Chakraborty, S. Mukhopadhyay, A. K. Mondal, K. Mandal, B. Mukherjee, R. Chakrabarti, B. N. Joshi, L. A. Kinage, S. Chatterjee, S. Samanta, S. Das, Soumik Bhattacharya, R. Banik, S. Nandi, R. Raut, G. Mukherjee, S. Bhattacharyya, S. S. Ghugre, A. Goswami	Investigation of possible multi-modal fission modes in $^{235}\text{U}(n, f)$ following fission fragment spectroscopy	Proceedings of the DAE Symp. on Nucl. Phys.	66	349	2022
32	R. Shil, K. Banerjee, A. Chakraborty, R. Santra, A. S. Roy, A. Dey, S. Manna, A. Sen, D. Paul, T. K. Rana, P. Karmakar, R. Pandey, S. Kundu, P. Roy, S. Mukhopadhyay, D. Pandit, D. Mondal, T. K. Ghosh, G. Mukherjee, S. Sadhukhan, J. Sadhukhan, B. Mukherjee, C. Bhattacharya	Collective enhancement in nuclear level density near 160 mass region	Proceedings of the DAE Symp. on Nucl. Phys.	67	419	2023
33	Abhijit Bairagya, Saumyajit Biswas, Buddhadev Mukherjee, Anagha Chakraborty	Probing experimental landscape of fusion barrier widths through coupling strengths	Proceedings of the DAE Symp. on Nucl. Phys.	67	479	2023

34	A. K. Mondal, A. Chakraborty, K. Mandal, U. S. Ghosh, Aniruddha Dey, Saumyajit Biswas, B. Mukherjee, and S. Rai et al.	Low-lying Level Sequences in ^{76}As	Proceedings of the DAE Symp. on Nucl. Phys.	67	85	2023
35	B. Kharpuse, Sramana Biswas, K. Bhandary, S. Barman, A. Biswas, A. Goswami, S. Maiti, A. K. Mondal, U. S. Ghosh, S. Rai, K. Mandal, S. Mondal, Saumyajit Biswas, B. Mukherjee, A. Chakraborty, U. D. Pramanik, S. Chakraborty, Yashraj, I. Bala, K. Katre, A. Sharma, R. P. Singh, and S. Muralithar	In-beam γ -ray spectroscopy of ^{69}Ge	Proceedings of the DAE Symp. on Nucl. Phys.	67	99	2023
36	Anirban Basak, Amit kumar Mondal, Buddhadev Mukherjee, Anagha Chakraborty	B(E2) and lifetime values in ^{118}Sn	Proceedings of the DAE Symp. on Nucl. Phys.	67	117	2023
37	Anirban Basak, Amit kumar Mondal, Buddhadev Mukherjee, Anagha Chakraborty	Coexisting Features in ^{68}Zn	Proceedings of the DAE Symp. on Nucl. Phys.	67	119	2023
38	Sramana Biswas, Bharat Kharpuse, Koustav Bhandary, Sourav Barman, Anirban Goswami, Shubharthi Maiti, Amit Mondal, Uday Shankar Ghosh, Siddharth Rai, Kironmoy Mandal, Soumyojit Biswas, Buddhadev Mukherjee, Anagha Chakraborty, Ushasi datta Pramanik, Yash Raj, Indu Bala, Kaushik katre, Abhilas Sharma, Rajendra Pratap Sing, Muralithar Sivaramakrishnan	Yield distribution of fusion evaporation reaction $^{28}\text{Si} + ^{48}\text{Ti}$ at 100 MeV	Proceedings of the DAE Symp. on Nucl. Phys.	67	157	2023

39	A. Basak, A.K.Mondal ,S.S.Nayak,S.Bhattacharyya,G. Mukherjee,R.MondalSaha,K.Banerjee,K.Ma ndal1,S.Chakraborty, S.Bhattacharya,R.Raut,S.S.Ghugre,P.K.Giri, K.Debnath, S.Biswas,R. shil,KoustavBhandary,SuchoritaPaul,S.Pal, A.Pal,S.Basu,A.Sharma,B.Mukherjee andA.Chakraborty	Observation of the Unfavoured Signature Partner band in ^{81}Br	Proceedings of the DAE Symp. on Nucl. Phys.	68	117	2024
40	K. Bhandary, K. Debnath, K. Mandal Anirban Basak, S. Biswas, A. Goswami, S. Maiti U. S. Ghosh S. Rai1 A. K. Mondal A. Dey A. Sharma I. Bala, K. Katre, R. K. Gurjar, R. Kumar R. P. Singh, S. Muralithar, G. Mukherjee, S. K. Tandel, S. S. Ghugre, S. Suman, Y. Raj, A. Chakraborty, B. Mukherjee	Investigation of rotational band structure in ^{152}Eu	Proceedings of the DAE Symp. on Nucl. Phys.	68	124	2024
41	Krishna Debnath, Aniruddha Dey A.K. Mondal P.K.Nayak, A. Kundu, A. Sindhu, Biswajit Das K. MandalP. Dey, S. Biswas, Vishal Malik, B. Mukherjee, D. C.Biswas, R. Palit, S. Mukhopadhyay, and A. Chakraborty	Fission Fragment Spectroscopy of $^{232}\text{Th}(9\text{Be},f)$: Explicit pair- wise measurements for quantifying fusion suppression	Proceedings of the DAE Symp. on Nucl. Phys.	68		2024

42	Anirban Goswami, Shubharthi Maiti, Sramana Biswas, Koustav Bhandary, Anagha Chakraborty, Buddhadev Mukherjee	Large-scale shell model calculations for the odd-even neutron-rich Ga isotope ^{69}Ga	Proceedings of the DAE Symp. on Nucl. Phys.	68	157	2024
43	Anirban Goswami, Shubharthi Maiti, Sramana Biswas, Koustav Bhandary, Anagha Chakraborty, Buddhadev Mukherjee	Systematic analysis of low to high-spin structures in $N = 33, 35, 37$ Zn isotopes on the basis of fp and $f5/2p_{9/2}$ shell model calculations	Proceedings of the DAE Symp. on Nucl. Phys.	68	159	2024
44	Krishna Debnath, Aniruddha Dey A.K. Mondal P.K.Nayak, A. Kundu, A. Sindhu, Biswajit Das K. Mandal P. Dey, S. Biswas, Vishal Malik, B. Mukherjee, D. C. Biswas, R. Palit, S. Mukhopadhyay, and A. Chakraborty	Probing relative isotopic yield distribution profile of ^{232}Tl ($^{9}\text{Be}, f$) following prompt γ -ray spectroscopy method	Proceedings of the DAE Symp. on Nucl. Phys.	68		2024
45	Shubharthi Maiti, Anirban Goswami, Sramana Biswas, Koustav Bhandary, Uday Shankar Ghosh, Anagha Chakraborty, Buddhadev Mukherjee	Low-lying nuclear structures of $^{59,61}\text{Zn}$: a shell model-study	Proceedings of the DAE Symp. on Nucl. Phys.	68	229	2024

46	Sramana Biswas, Koustav Bhandary, Anirban Goswami, Shubarthi Maiti, Uday Shankar Ghosh, Siddharth Rai, Buddhadev Mukherjee, Anagha Chakraborty, Amit Kumar Mondal, Kiranmoy Mondal, Saumyajit Biswas, Ushashi Datta Pramanik, Yashraj, Indu Bala, Kaushik Katre, Ashish Sharma, Rajesh Pratap Singh, Muralithar Shivaramakrishnan	Probing nuclear structure of ^{69}Ge through heavy-ion induced gamma-ray spectroscopy	Proceedings of the DAE Symp. on Nucl. Phys.	68	327	2024
47	Bijan Layek, Rahitashya Shil, Kaushik Banerjee, Buddhadev Mukherjee, Anagha Chakraborty	n, γ cross-section for astrophysical aspect: Role of Nuclear Level Density and Photon Strength Function	Proceedings of the DAE Symp. on Nucl. Phys.	68	547	2024
48	Abhijit Bairagya, Saumyajit Biswas, Buddhadev Mukherjee, Anagha Chakraborty	Systematic study of the effect of coupling strength and channel coupling parameter on barrier distribution	Proceedings of the DAE Symp. on Nucl. Phys.	68	671	2024

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