

Faculty Profile

1. Name: ANAGHA CHAKRABORTY
2. Designation: Assistant Professor
3. Email(s): anagha.chakraborty@visva-baharati.ac.in
anagha.chakraborty@gmail.com
4. Date of Birth: 11th August, 1976
5. Contact number(s): 6294251834
6. Address: Falguni Apartment, Flat No. 1C, Near LIC Building, Udayan Palli, Bolpur, West Bengal
7. Research ID (Google Scholar, ORCID ID, Scopus ID, WOS ID, Vidyan ID, Research Gate):

GOOGLE SCHOLAR

<https://scholar.google.com/citations?user=4r3IIEEAAAAJ&hl=en>

RESEARCHGATE

<https://www.researchgate.net/profile/Anagha-Chakraborty>

VIDWAN

<https://vidwan.inflibnet.ac.in/profile/217469>

RESEARCHER ID

<https://publons.com/researcher/4571390/anagha-chakraborty/>

ORCID ID

<https://orcid.org/my-orcid?orcid=0000-0002-3446-8600>

8. Membership of Learned Societies:
9. Homepage (If any):
10. Publication Summary:
 - (a) No. of Research papers - 39
 - (b) No. of Book Chapters -
 - (c) No. of Conference papers - 45
 - (d) h-index - 16
 - (e) i-10 index - 26
11. Date of Joining Visva-Bharati Service: 11th February, 2014
12. Education: MSc, PhD

Degree	Year	University/Institution
Ph. D.	2008	Awarded the Ph. D. degree by the University of Calcutta, Kolkata. Thesis work was carried out at the

		UGC – DAE Consortium for Scientific Research (UGC-DAE CSR, Kolkata.
M.Sc. / M. Tech.	2000	Gauhati University, Guwahati, Assam
B.Sc.	1997	Bholanath College, Dhubri, Assam (under Gauhati University, Guwahati, Assam)

13. Academic Positions held (in reverse chronological order)

Sl.No.	Positions held	Institution	Period
1	Assistant Professor	Department of Physics, Siksha Bhavana, Visva- Bharati, Santiniketan, West Bengal	February, 2014 – till date
2	Assistant Professor	Department of Physics, Krishnath College, Berhampore, Murshidabad, West Bengal	March, 2005 – February, 2014

14. Areas of Research: Accelerator based Nuclear Physics research in the field of

- (a) Nuclear level structure studies through gamma ray spectroscopic techniques
- (b) Nuclear reaction dynamics investigations using accelerated light- and heavy-ion beams
- (c) Nuclear data base research related to critical evaluation of Nuclear Data for Nuclear Science and Technology

15. Subject Specialization: Experimental Nuclear Physics

16. Courses Teach / Taught:

Undergraduate Courses	Waves & Optics, Nuclear & Particle Physics, Heat & Thermodynamics, Solid State Physics (Experiment)
Postgraduate Courses	Nuclear Physics (Theory), Nuclear Physics Experiments, Nuclear Astrophysics, Nuclear & Particle Physics
Ph.D. Course-work	Nuclear Physics

17. Research Guidance:

- (a) No. of Postdoctoral students (Completed / Ongoing)
- (b) No. of Doctoral students (Completed / Ongoing): Completed: 4; Ongoing: 3
- (c) No. of M.Sc. Dissertations: 22

18. Research Collaboration (National / International):

National: UGC-DAE CSR, Kolkata; VECC, Kolkata; IUAC, New Delhi; TIFR, Mumbai; BARC, Mumbai
International: Lawrence Berkeley National Laboratory, Berkeley, California, USA

19. Research Grants/Projects

Sl. No.	Project Title	PI/Co-PI	Funding Agency	Amount	Completed/Ongoing
1	Mass Chain Evaluation of Light and Heavy Mass Regions for Basic and Applied Research [Contract Number: 26552]	PI	International Atomic Energy Agency (IAEA)	10,000 EURO	Ongoing
2	Investigating the controlling effects of shell closure and collectivity on nuclear level density at varying angular momentum and excitation [Project No. CRS/2021-22/02/472]	PI	UGC DAE Consortium for Scientific Research (UGC-DAE CSR)	Rs. 2,28,120/-	Ongoing
3	Investigation of isospin and ground state deformation effects in the nuclear reactions involving rare earth nuclei [File Number: CRG/2021/004680]	PI	Scientific and Engineering Research Board (SERB), Govt. of India	Rs. 22,22,950/-	Completed
4	Search for coexistence of different shapes and excitation mechanisms in transitional nuclei [Project Code No. 71344]	PI	Inter University Accelerator Centre (IUAC), New Delhi, India (funded under the UFUP scheme)	Rs. 6,54,774/-	Completed
5	Study of nuclear level density as a function of angular momentum, temperature and unveiling the role of collectivity and shell structure [Ref. No.: UGC-DAE-CSR-KC/CRS/19/NP10/0921/0963 dated 10.05.2019]	PI	UGC-DAE CSR, Kolkata, India (funded under the Collaborative Research Scheme (CRS))	Rs. 11,15,626/-	Completed
6	Spectroscopic Study of Rare Earth Nuclei [Ref. No.: 37(3)/14/17/2016-BRNS/37231 dated 20/02/2017]	PI	DAE-BRNS, Govt. of India	Rs. 22,00,996/-	Completed
7	Search for Non-yrast Collective States in ^{150}Nd [Ref. No.: UGC-DAE-CSR-KC/CRS/13/NP04/02 dated 07.05.2014]	PI	UGC-DAE CSR, Kolkata, India (funded under the Collaborative Research Scheme (CRS))	Rs. 5,11,000/-	Completed
8	Revisiting High Spin Level Structure of Nuclei around $A \sim 150$ region: Issues of Octupole Oscillations and Deformations [Project Code No. UFR – 56317; Ref. No.: IUAC/XIII.7/UFR-56317 dated 22.08.2014]	PI	Inter University Accelerator Centre (IUAC), New Delhi, India (funded under the UFUP scheme)	Rs. 4,76,533/-	Completed

20. List of Scientific Publications

Sl.No.	Author(s)	Title	Journal	Year	Ref. link
1	Aniruddha Dey, D.C. Biswas, A. Chakraborty , S. Mukhopadhyay, A.K. Mondal, B. Mukherjee, G. de France, G. Simpson, C.A. Ur, and W. Urban	Fission fragment spectroscopy of $^{235}\text{U}(\text{nth}, \text{f})$	Nuclear Physics A 1053 (2025) 122962	2025	https://doi.org/10.1016/j.nuclphysa.2024.122962
2	R. Mondal Saha, K. Banerjee, A. Chakraborty , N. Gayathri, Satya Samiran Nayak, Souvik Jana, G.R. Umapathy, R. Shil, Anirban Basak, S. Bhattacharyya, Satyajit Hazra, and Saif Ahmad Khan	Preparation of selenium target using sedimentation method for in-beam γ -ray spectroscopic measurement	Nuclear Instruments and Methods in Physics Research A 1074 (2025) 170288	2025	https://doi.org/10.1016/j.nima.2025.170288
3	Aniruddha Dey, D.C. Biswas, A. Chakraborty , and S. Mukhopadhyay	Excitation energy dependency of the low-energy fission dynamics: Probing through prompt gamma-ray spectroscopy	EPJ Web of Conferences 306 (2024) 01022 FUSION23	2024	https://doi.org/10.1051/epjconf/202430601022
4	Aman Sharma, Punit Dubey, Utkarsha Mishra, Nitin Dubey, Jyoti Pandey, Ramandeep Gandhi, A. Pal, Abhijit Baishya, T. Santhosh, P.C. Rout, B.K. Nayak, S. Santra, A. Chakraborty , and A. Kumar	Study of the surrogate ratio method by determination of $^{56}\text{Fe}(\text{n}, \text{xp})$ cross sections	Physics Letters B 848 (2024) 138381	2024	https://www.sciencedirect.com/science/article/pii/S0370269323007153?via%3Dihub
5	M. Shamsuzzoha Basunia and Anagha Chakraborty	Nuclear Data Sheets for A=30	Nuclear Data Sheets 197 (2024) 1-258	2024	https://doi.org/10.1016/j.nds.2024.08.001
6	A. Chakraborty , S. Mukhopadhyay, Aniruddha Dey, and D.C. Biswas	Exploring Fission Dynamics through Fission Fragment Spectroscopy	Journal of Physics: Conference Series 2919 (2024) 012035 IOP Publishing	2024	https://iopscience.iop.org/article/10.1088/1742-6596/2919/1/012035
7	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, S.S. Ghugre, S. Mukhopadhyay, S. Rajbanshi, R. Banik, S. Bhattacharyya, S. Nandi, S. Chakraborty, S. Bhattacharya, G.	Investigation of the low- and medium-spin level structure in ^{77}As	Physical Review C 107 (2023) 064320	2023	https://journals.aps.org/prc/abstract/10.1103/PhysRevC.107.064320

	Mukherjee, S. Ali, A. Goswami, R. Chakrabarti, A. Kumar, and R. Goswami				
8	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, Shabir Dar, R. raut, G. Mukherjee, S. Bhattacharyya, S.S. Ghugre, and A. Goswami	Evidence for competing bi-faceted compound nucleus fission modes in $^{232}\text{Th}(\alpha, f)$ reaction	Physics Letters B 825 (2022) 136848	2022	https://doi.org/10.1016/j.physletb.2021.136848
9	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	Physical Review C 105 (2022) 034328	2022	https://doi.org/10.1103/PhysRevC.105.034328
10	M. Shamsuzzoha Basunia and Anagha Chakraborty	Nuclear Data Sheets for A=24	Nuclear Data Sheets 186 (2022) 3-262	2022	https://doi.org/10.1016/j.nds.2022.11.002
11	R. Shil, K. Banerjee, Pratap Roy, J. sadhukhan, T.K. Rana, G. Mukherjee, S. Kundu, T.K. Ghosh, S. Manna, A. Sen, R. Pandey, A. Chakraborty , Deepak Pandit, S. Mukhopadhyay, Debasish Mondal, D. paul, C. Bhattacharya, and S. Bhattacharya	Isospin dependence of nuclear level density at $A \approx 120$ mass region	Physics Letters B 831 (2022) 137145	2022	https://doi.org/10.1016/j.physletb.2022.137145
12	N.K. Rai, A. Gandhi, M.T. Senthil Kannan, S.K. Roy, N. Saneesh, M. Kumar, G. Kaur, D. Arora, K.S. Golda, A. Jhingan, P. Sugathan, T.K. Ghosh, Jhilaam Sadhukhan, B.K. Nayak, Nabendu K Deb, Saumyajit Biswas, A. Chakraborty , A. Parihari, and Ajay Kumar	Inference on fission timescale from neutron multiplicity measurement in $^{18}\text{O} + ^{184}\text{W}$	Journal of Physics G: Nuclear and Particle Physics 49 (2022) 035103	2022	https://iopscience.iop.org/article/10.1088/1361-6471/ac4b3f
13	Balraj Singh, Gopal Mukherjee, S.K. Basu, Srijit Bhattacharya, Sudeb	Nuclear Data Sheets for A=219	Nuclear Data Sheets 175 (2021)	2021	https://doi.org/10.1016/j.nds.2021.06.002

	Bhattacharya, A. Chakraborti , A.K. De, R. Gowrishankar, A.K. Jain, Sushil Kumar, and Sukhjeet Singh		150–268		
14	Aniruddha Dey, D.C. Biswas, A. Chakraborty , S. Mukhopadhyay, A. K. Mondal, L. S. Danu, B. Mukherjee, S. Garg, B. Maheshwari, A. K. Jain, A. Blanc, G. de France, M. Jentschel, U. Köster, 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 $^{235}\text{U}(\text{n}_{\text{th}}, \text{f})$ following γ -ray spectroscopy	Physical Review C 103 (2021) 044322	2021	https://doi.org/10.1103/PhysRevC.103.044322
15	M. Shamsuzzoha Basunia and Anagha Chakraborty	Nuclear Data Sheets for A=23	Nuclear Data Sheets 171 (2021) 1–252	2021	https://doi.org/10.1016/j.nds.2020.12.001
16	Saumyajit Biswas, S.R. Abhilash, D. Kabiraj, Rohan Biswas, G.R. Umapathy, S. Ojha, and A. Chakraborty	Fabrication and characterization of thin $^{142,150}\text{Nd}$ targets for the study of dynamics of heavy-ion induced reactions	Vacuum 186 (2021) 110053	2021	https://doi.org/10.1016/j.vacuum.2021.110053
17	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, B. Mukherjee, B.K. Nayak, A. Parihari, N.K. Rai, S. Rai, R. Raut, Rudra N. Sahoo, and A.K. Sinha	Quasielastic scattering measurements in the $^{28}\text{Si} + ^{142,150}\text{Nd}$ systems	Physical Review C 102 (2020) 014613	2020	https://doi.org/10.1103/PhysRevC.102.014613
18	U. S. Ghosh, S. Rai, B. Mukherjee, A. Biswas, A. K. Mondal, K. Mandal, A. Chakraborty , S. Chakraborty, G. Mukherjee, A. Sharma, I. Bala, S. Muralithar, and R. P. Singh	Spectroscopic investigation of complex nuclear excitations in ^{66}Ga	Physical Review C 102 (2020) 024328	2020	https://doi.org/10.1103/PhysRevC.102.024328
19	A. K. Mondal, A. Chakraborty , K. Mandal, U. S. Ghosh, Aniruddha Dey, Saumyajit Biswas, B. Mukherjee, S. Rai, Krishichayan, S. Chatterjee, S. K. Das, S. Samanta, R. Raut, S. S. Ghugre, S. Rajbanshi, R. Banik, S. Bhattacharyya, S. Nandi, S. Bhattacharya, G. Mukherjee, S. Ali, A. Goswami, R. Chakrabarti, S. Mukhopadhyay, A. K. Sinha, V. Kumar, and A. Kumar	Investigation of different possible excitation modes in neutron-rich ^{78}As	Physical Review C 102 (2020) 064311	2020	https://doi.org/10.1103/PhysRevC.102.064311

20	S. Rai, U. S. Ghosh, B. Mukherjee, 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	2020	https://doi.org/10.1103/PhysRevC.102.064313
21	Saumyajit Biswasa, 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, B. Mukherjee, B. K. Nayak, A. Parihari, N. K. Rai, S Rai, R. Raut, Rudra N Sahu & 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, Vol. 58, May 2020, pp. 409-414	2020	http://nopr.niscair.res.in/handle/123456789/54743
22	K. Mandal, A. K. Mondal, A. Chakraborty , E. E. Peters, B. P. Crider, C. Andreoiu, P. C. Bender, D. S. Cross, G. A. Demand, A. B. Garnsworthy, P. E. Garrett, G. Hackman, B. Hadinia, S. Ketelhut, Ajay Kumar, K. G. Leach, M. T. McEllistrem, J. Pore, F. M. Prados-Estévez, E. T. Randi, B. Singh, E. R. Tardiff, Z-M. Wang, J. L. Wood & S. W. Yates	Probing the low-lying level structure of ^{94}Zr through β^- decay	Indian Journal of Pure & Applied Physics, Vol. 58, April 2020, pp. 223-227	2020	http://nopr.niscair.res.in/handle/123456789/54506
23	U.S.Ghosh, S.Rai, B.Mukherjee, A.Biswas, A.K.Mondal, K.Mandal, A.Chakraborty , S.Chakraborty, G.Mukherjee, A.Sharma, I.Bala, S.Muralithar, R.P.Singh	In-beam spectroscopic study of ^{63}Zn	Phys. Rev. C 100 (2019) 034314	2019	https://doi.org/10.1103/PhysRevC.100.034314
24	S.Mukhopadhyay, B.P.Crider, B.A.Brown, A.Chakraborty , A.Kumar, M.T.McEllistrem, E.E.Peters, F.M.Prados-Estevez, S.W.Yates	Inelastic neutron scattering studies of ^{76}Se	Physical Review C 99 (2019) 014313	2019	https://doi.org/10.1103/PhysRevC.99.014313
25	E.E.Peters, A.E.Stuchbery, A.Chakraborty , B.P.Crider, S.F.Ashley, A.Kumar, M.T.McEllistrem, F.M.Prados-Estevez, S.W.Yates	Emerging collectivity from the nuclear structure of ^{132}Xe : Inelastic neutron scattering studies and shell-model calculations	Physical Review C 99 (2019) 064321	2019	https://doi.org/10.1103/PhysRevC.99.064321
26	N.K.Rai, A.Gandhi, Ajay Kumar, N. Saneesh, M. Kumar, G.Kaur, A.Parihari, D.Arora, K.S.Golda, A.Jhingan, P.Sugathan, T.K.Ghosh, J.Sadhukhan, B.K.Nayak, N.K.Deb, S.Biswas,	Measurement of neutron multiplicity to investigate the role of entrance channel parameters on the nuclear dissipation	Physical Review C 100 (2019) 014614	2019	https://doi.org/10.1103/PhysRevC.100.014614

	A.Chakraborty				
27	F.G. Kondev, E.A. McCutchan, B. Singh, K.Banerjee, S.Bhattacharya, A.Chakraborty , S.Garg, N.Jovancevic, S.Kumar, S.K.Rathi, T.Roy, J.Lee, R.Shearman	Nuclear Data Sheets for A=217	Nucl. Data Sheets 147 (2018) 382	2018	https://doi.org/10.1016/j.nds.2018.01.002
28	E.E.Peters, P.Van Isacker, A.Chakraborty , B.P.Crider, A.Kumar, S.H.Liu, M.T.McEllistrem, C.V.Mehl, F.M.Prados-Estevez, T.J.Ross, J.L.Wood, S.W.Yates	Seniority structure of $^{136}\text{Xe}_{82}$	Physical Review C 98 (2018) 034302	2018	https://doi.org/10.1103/PhysRevC.98.034302
29	S.Rai, B.Mukherjee, U.S.Ghosh, A.Biswas, A.Chakraborty , A.K.Mondal, S.Chakraborty, G.Mukherjee, I.Bala, R.P.Singh	High spin states in ^{63}Cu	European Physics Journal A 54 (2018) 84	2018	https://doi.org/10.1140/epja/i2018-12518-2
30	A.Saha, T.Bhattacharjee, D.Curien, I.Dedes, K.Mazurek, S.R.Banerjee, S.Rajbanshi, A.Bisoi, G.de Angelis, S.Bhattacharya, S.Bhattacharyya, S.Biswas, A.Chakraborty , S.Das Gupta, B.Dey, A.Goswami, D.Mondal, D.Pandit, R.Palit, T.Roy, R.P.Singh, M.S.Sarkar, S.Saha, J.Sethi	Excited negative parity bands in ^{160}Yb	Physica Scripta 93 (2018) 034001	2018	https://doi.org/10.1088/1402-4896/aaa1fa
31	H.Sultana, R.Bhattacharjee, A.Chakraborty , M.A.Khan, S.S.Bhattacharjee, R.Chakrabarti, S.Das, U.Garg, S.S.Ghugre, R.Palit, R.Raut, S.Saha, S.Samanta, J.Sethi, A.K.Sinha, T.Trivedi	Possible onset of multifaceted excitation modes in ^{29}Al	Physical Review C 98 (2018) 014330	2018	https://doi.org/10.1103/PhysRevC.98.014330
32	S.Mukhopadhyay, B.P.Crider, B.A.Brown, S.F.Ashley, A.Chakraborty , A.Kumar, M.T.McEllistrem, E.E.Peters, F.M.Prados-Estevez, S.W.Yates	Nuclear structure of ^{76}Ge from inelastic neutron scattering measurements and shell model calculations	Physical Review C 95 (2017) 014327	2017	https://doi.org/10.1103/PhysRevC.95.014327
33	E.E.Peters, A.Chakraborty , B.P.Crider, S.F.Ashley, E.Elhami, S.F.Hicks, A.Kumar, M.T.McEllistrem, S.Mukhopadhyay, J.N.Orce, F.M.Prados-Estevez, S.W.Yates	Level lifetimes and the structure of ^{134}Xe from inelastic neutron scattering	Physical Review C 96 (2017) 014313	2017	https://doi.org/10.1103/PhysRevC.96.014313
34	F.M.Prados-Estevez, E.E.Peters, A.Chakraborty , M.G.Mynk,	Collective quadrupole behavior in ^{106}Pd	Physical Review C 95 (2017) 034328	2017	https://doi.org/10.1103/PhysRevC.95.034328

	D.Bandyopadhyay, N.Boukharouba, S.N.Choudry, B.P.Crider, P.E.Garrett, S.F.Hicks, A.Kumar, S.R.Lesher, C.J.McKay, M.T.McEllistrem, S.Mukhopadhyay, J.N.Orce, M.Scheck, J.R.Vanhoy, J.L.Wood, S.W.Yates				4328
35	Filip Kondev, Elizabeth McCutchan, Balraj Singh, Jagdish Tuli, Khalifeh Abusaleem, Paraskevi Dimitriou, Stefan Lalkovski, Alexander Rodionov, Georgi Shulyak, Ismahane Ami, Sudeb Bhattacharya, Anagha Chakraborty , S. Deepa, Sefa Erturk, R. Gowrishankar, Paresh Joshi, Stanimir Kisiov, Mouftahou Latif, Maria Marginean, Sherif Nafee, Sorin Pascu, Sushil Rathi, M. Sainath, K. Vijay Sai, and Dong Yang	Nuclear Data Sheets for A = 227	Nuclear Data Sheets 132 (2016) 257–354	2016	http://dx.doi.org/10.1016/j.nds.2016.01.002
36	E.E.Peters, F.M.Prados-Estevez, A.Chakraborty , M.G.Mynk, D.Bandyopadhyay, S.N.Choudry, B.P.Crider, P.E.Garrett, S.F.Hicks, A.Kumar, S.R.Lesher, C.J.McKay, J.N.Orce, M.Scheck, J.R.Vanhoy, J.L.Wood, S.W.Yates	E0 transitions in ^{106}Pd : Implications for shape coexistence	European Physics Journal A 52 (2016) 96	2016	https://doi.org/10.1140/epja/i2016-16096-y
37	E.E.Peters, T.J.Ross, S.F.Ashley, A.Chakraborty , B.P.Crider, M.D.Hennek, S.H.Liu, M.T.McEllistrem, S.Mukhopadhyay, F.M.Prados-Estevez, A.P.D.Ramirez, J.S.Thrasher, S.W.Yates	0^+ states in $^{130,132}\text{Xe}$: A search for E(5) behavior	Physical Review C 94 (2016) 024313	2016	https://doi.org/10.1103/PhysRevC.94.024313
38	D.Pramanik, S.Sarkar, M.S.Sarkar, A.Bisoi, S.Ray, S.Dasgupta, A.Chakraborty , Krishichayan, R.Kshetri, I.Ray, S.Ganguly, M.K.Pradhan, M.R.Basu, R.Raut, G.Ganguly, S.S.Ghugre, A.K.Sinha, S.K.Basu, S.Bhattacharya, A.Mukherjee, P.Banerjee, A.Goswami	Shape coexistence in ^{153}Ho	Physical Review C 94 (2016) 024311	2016	https://doi.org/10.1103/PhysRevC.94.024311
39	J.R. Vanhoy, S.F. Hicks, A.Chakraborty , B.R. Champine, B.M. Combs, B.P. Crider, L.J. Kersting,	Neutron scattering differential cross sections for ^{23}Na from 1.5 to 4.5 MeV	Nuclear Physics A 939 (2015) 121	2015	https://doi.org/10.1016/j.nuclphysa.2015.03.006

	A. Kumar, C.J. Lueck, S.H. Liu, P.J. McDonough, M.T. McEllistrem, E.E. Peters, F.M. Prados-Estévez, L.C. Sidwell, A.J. Sigillito, D.W. Watts, and S.W. Yates				
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21. Talks Delivered at International / National Conferences/Seminars/Symposium:

(1) Participated and delivered a talk entitled “Probing deep into the fission dynamics through Fission Fragment Spectroscopy” at the Frontiers in Gamma Ray Spectroscopy (FIG2025) held at TIFR, Mumbai during March 09 – 12, 2025

<https://scitalks.tifr.res.in/event/8987/overview>

(2) Participated and delivered an invited talk entitled “Memorable Past and Exciting Future: Glimpses of Our Research Works Using the Facilities at IUAC, New Delhi” at the workshop on Physics with Recoil Separators and Large Neutron Array (PRSLNA-24) held at Inter-University Accelerator Centre (IUAC), New Delhi during May 20-22, 2024

https://www.iuac.res.in/iuac_custom/event/en/79/events

(3) Delivered an invited talk entitled “Fundamental Discoveries in Nuclear Science and our present day works” at the State Level Seminar on “Current Trends in Physical and Chemical Sciences” organized by Departments of Physics & Chemistry, Berhampore Girls’ College, Berhampore, Murshidabad, West Bengal on March 16, 2024

(4) Presented a deliberation entitled “Discovery of Nuclear Science and Our Present Day Work” as the Resource Person in a State level Seminar organized by the Department of Physics in collaboration with the Department of Chemistry and IQAC, Sewnarayan Rameswar Fatepuria College, Beldanga, Murshidabad, West Bengal on March 11, 2024

(5) Participated and delivered a talk entitled “Exploring fission dynamics through fission fragment spectroscopy” in the International Conference on Frontiers in Pure and Applied Physics (ICFPAP), 2024 organized by Department of Physics, University of Science and Technology Meghalaya (USTM) in collaboration with Physics Academy of North East (PANE) held during February 29 – March 2, 2024 <https://ustm.ac.in/icfpap-2024-2/>

(6) Delivered a talk entitled “Probing Nuclear Structure using Slow and Fast Neutrons” at the Van de Graaff Seminar held at the Van de Graaff Seminar Room on 27th November, 2024

(7) Participated and delivered a talk through online mode on “Investigation of different competing fission modes using INGA” in the workshop entitled “Indian National Gamma Array (INGA): Recent results and ancillary devices” organized by Inter University Accelerator Centre (IUAC), New Delhi during April 17 – 19, 2023

https://www.iuac.res.in/iuac_custom/event/en/68/events

(8) Participated and delivered an invited talk entitled “Isomer Spectroscopy using HIRA at IUAC, New Delhi” in the two-day online workshop “Physics with Recoil Separators” organized by Inter University Accelerator Centre (IUAC), New Delhi during February 24 – 25, 2022 https://www.iuac.res.in/iuac_custom/event/en/55/events

(9) Delivered an invited talk (through online mode) entitled “Isomers with recoil spectrometer at IUAC” at the Orientation Programme of the 65th DAE-BRNS Symposium on Nuclear Physics held at the DAE Convention Centre, Anushaktinagar, Mumbai during December 1 – 5, 2021

<https://www.symnpnp.org/proceedings/65/cover.pdf>

- (10) Participated and delivered an invited talk at the Workshop on “Indian National Gamma Array (INGA): Recent results and future perspectives” organized by Inter University Accelerator Centre (IUAC) through online mode during 28 - 29 June, 2021 https://www.iuac.res.in/sites/default/files/announcement_file/ws_inga_2021.pdf
- (11) Participated (through online mode) and presented a poster “Competing excitation modes in $A \sim 80$ region” at the “Second African Nuclear Physics Conference (ANPC)” hosted by iThemba LABS, South Africa through online mode between September 20 – 24, 2021 <https://indico.tlabs.ac.za/event/101/contributions/contributions.pdf>
- (12) Participated (through online mode) and delivered a talk “Onset of different excitation modes in the neutron rich 78As ” at the “XIV. International Conference on Nuclear Structure Properties, NSP2021” held at Selcuk University, Konya, Turkey during June 2-4, 2021 <https://nsp2021.selcuk.edu.tr/>
- (13) Participated and delivered an invited talk “Investigation of nuclear level structure using heterogeneous probes” at the International Conference on New Frontiers in Nuclear Physics (ICNFP 2019) held at the Banaras Hindu University, Varanasi, India during October 14-17, 2019
- (14) Participated and delivered a talk entitled “Investigation of the level structure of ^{29}Al at high spin” in the FIG 2018 Conference held between March 12 – 14, 2018 at TIFR, Mumbai <https://indico.tifr.res.in/indico/conferenceDisplay.py?confId=5862>
- (15) Delivered a talk entitled “Investigation of low-lying nuclear level structure using beta decay” at the one day Acquaintance Programme on Accelerator-based Research held at the Department of Physics, Visva-Bharati on April 7, 2017. The program was jointly organized by the Department of Physics, Visva-Bharati and the Inter University Accelerator Centre (IUAC), New Delhi
- (16) Participated and delivered an invited talk “High Spin Level Structure of Nuclei around $A \sim 150$ region: Issues of Octupole Oscillations and Deformations” in the Workshop on INGA Experiments held at IUAC, New Delhi during September 14 – 15, 2017
- (17) Participated and delivered an invited talk “Nuclear Structure Studies using Fast Neutrons” at the 61st DAE-BRNS Symposium on Nuclear Physics held at Saha Institute of Nuclear Physics, Kolkata during December 5 – 9, 2016 <http://www.sympnp.org/proceedings/>
- (18) Participated and delivered an invited talk “Nuclear Structure Studies with Fast Neutrons” at the conference, Frontiers in Gamma Ray Spectroscopy, 2015 (FIG-2015) held at VECC, Kolkata during February 18 – 20, 2015 <http://indico.vecc.gov.in/conferenceDisplay.py/openMenu%3FcurrentURL=http%253A%252F%252Findico.vecc.gov.in%252Findico%252FinternalPage.py%253FpageId%253D0%2526confId%253D35&confId=35.html>
- (19) Delivered a series of lectures on “Shapes & Shells in Nuclei” at the UGC sponsored workshop, “Physics of Particles, Nuclei and related instrumentation” held at the Department of Physics, Banaras Hindu University during January 27 – 31, 2015

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