Personal Profile:

Name: Anagha Chakraborty

Designation: Assistant Professor, Department of Physics, Siksha Bhavana, Visva-Bharati, Santiniketan – 731 235, West Bengal, India

E-mail: *anagha.chakraborty@gmail.com* *anagha.chakraborty@visva-bharati.ac.in*

Contact No.: 6294251834

Date of Birth: 11th August, 1976

Teaching Experience: 15 years

Research Experience: 20 years

Web-link:

GOOGLE SCHOLAR	https://scholar.google.com/citations?user=4r3IlEEAAAAJ&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/

Area of Research Interest:

(a) Accelerator based Nuclear Physics research in the field of
(1) Nuclear level structure studies through gamma ray spectroscopic techniques
(2) Nuclear reaction dynamics studies using accelerated light- and heavy-ion beams
(b) Nuclear data base research related to critical evaluation of Nuclear Data for Nuclear Science and Technology

Educational Qualifications:

- Awarded the Ph. D. degree by the University of Calcutta, India in 2008.
  (Thesis work was carried out at the UGC – DAE Consortium for Scientific Research (UGC-DAE CSR, Kolkata, India).
- Qualified the Joint CSIR – UGC National Eligibility Test (NET) in 2001 and 2002.
- M. Sc. in Physics with specialization in Nuclear Physics and Cosmic Radiation, from Gauhati University, Guwahati, India in 2000.
- B. Sc. in Physics from Bholanath College, Dhubri, Assam (under Gauhati University, Guwahati, India) in 1997.

Research and Teaching Experience:

- Research Scholar at the UGC – DAE CSR, Kolkata Centre from 2001 – 2008.
- Assistant Professor at the Department of Physics, Krishnath College, Berhampore, Murshidabad, West Bengal, India from March, 2005 – February, 2014.
- Post-Doctoral scholar at the Department of Physics and Astronomy, University of Kentucky, Lexington, USA from June, 2009 – May, 2012.
- Visiting Fellow at the Department of Physics, McMaster University, Hamilton, ON, Canada L8S 4K1 from May, 2013 – June, 2013.
- Assistant Professor at the Department of Physics, Siksha Bhavana, Visva-Bharati, Santiniketan, West Bengal, India from February, 2014 – till date.

Number of Publications in Referred Journals: 47

Details of the publications can be found in **Annexure A**

Completed / Ongoing Research Projects:

- **Project Title**: Investigation of isospin and ground state deformation effects in the nuclear reactions involving rare earth nuclei
  Funding Agency: DST-SERB, Govt. of India (File Number: CRG/2021/004680)
  Status: Ongoing

- **Project Title**: Search for coexistence of different shapes and excitation mechanisms in transitional nuclei [Project Code No. UFR – 71344; Ref. No.: IUAC/XIII.3A/UFR-71344, dated January 6, 2022]
  Funding Agency: Inter University Accelerator Centre (IUAC), New Delhi, India (funded under the UFUP scheme)
  Status: Ongoing

- **Project Title**: 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]
  Funding Agency: UGC-DAE CSR, Kolkata, India (funded under the Collaborative Research Scheme (CRS))
  Status: Completed

- **Project Title**: Spectroscopic Study of Rare Earth Nuclei [Ref. No.: 37(3)/14/17/2016-BRNS/37231 dated 20/02/2017]
  Funding Agency: DAE-BRNS, India
  Status: Completed

- **Project Title**: Search for Non-yrast Collective States in ^{150}Nd [Ref. No.: UGC-DAE-CSR-KC/CRS/13/NP04/02 dated 07.05.2014]
  Funding Agency: UGC-DAE CSR, Kolkata, India (funded under the Collaborative Research Scheme (CRS))
  Status: Completed

- **Project Title**: Revisiting High Spin Level Structure of Nuclei around A ~ 150 region: Issues of Octupole Oscillations and Deformations [Project Code No. UFR – 56317; Ref. No.: IUAC/XIII.7/UFR-56317 dated 22.08.2014]
  Funding Agency: Inter University Accelerator Centre (IUAC), New Delhi, India (funded under the UFUP scheme)
  Status: Completed

- ✓ **Number of research scholars supervised for PhD:** 2
- ✓ **Number of research scholars working for PhD at present**: 4
- ✓ **Number of Pre-PhD Dissertation Work Supervised:** 4
- ✓ **Number of MSc Dissertation Work Supervised:** 20

Annexure A
List of Publications

Refereed Journal:

(1) Evidence for competing bi-faceted compound nucleus fission modes in ^{232}Th(α,f) reaction
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
Physics Letters B 825 (2022) 136848 https://doi.org/10.1016/j.physletb.2021.136848

(2) Isospin dependence of nuclear level density at A≈ 120 mass region
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
Physics Letters B 831 (2022) 137145 https://doi.org/10.1016/j.physletb.2022.137145

(3) Inference on fission timescale from neutron multiplicity measurement in ^{18}O + ^{184}W
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, Jhilam Sadhukhan, B.K. Nayak, Nabendu K Deb, Saumyajit Biswas, **A. Chakraborty**, A. Parihari, and Ajay Kumar
Journal of Physics G: Nuclear and Particle Physics 49 (2022) 035103
10.1088/1361-6471/ac4b3f

(4) Alignment effects in the medium-spin level structure of ^{78}Se
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

Phys. Rev. C 105 (2022) 034328 https://doi.org/10.1103/PhysRevC.105.034328

(5) Measurement of relative isotopic yield distribution of even-even fission fragments from $^{235}U(n_{th}, f)$ following γ-ray spectroscopy

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

Physical Review C 103 (2021) 044322 https://doi.org/10.1103/PhysRevC.103.044322

(6) Nuclear Data Sheets for A=23

M. Shamsuzzoha Basunia and **Anagha Chakraborty**

Nuclear Data Sheets 171 (2021) 1–252 https://doi.org/10.1016/j.nds.2020.12.001

(7) Fabrication and characterization of thin $^{142,150}Nd$ targets for the study of dynamics of heavy-ion induced reactions

Saumyajit Biswas, S.R. Abhilash, D. Kabiraj, Rohan Biswas, G.R. Umapathy, S. Ojha, and **A. Chakraborty**

Vacuum 186 (2021) 110053 (Elsevier) https://doi.org/10.1016/j.vacuum.2021.110053

(8) Quasielastic scattering measurements in the $^{28}Si + ^{142,150}Nd$ systems

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

Physical Review C 102 (2020) 014613 https://doi.org/10.1103/PhysRevC.102.014613

(9) Spectroscopic investigation of complex nuclear excitations in ^{66}Ga

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

Phys. Rev. C 102 (2020) 024328 https://doi.org/10.1103/PhysRevC.102.024328

(10) Investigation of different possible excitation modes in neutron-rich ^{78}As

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

Phys. Rev. C 102 (2020) 064311 https://doi.org/10.1103/PhysRevC.102.064311

(11) Evolution of collectivity and shape transition in ^{66}Zn

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

Phys. Rev. C 102 (2020) 064313 https://doi.org/10.1103/PhysRevC.102.064313

(12) Quasi-elastic scattering measurements of the $^{28}Si + ^{142}Nd$ system at back-angle

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

Indian Journal of Pure & Applied Physics, Vol. 58, May 2020, pp. 409-414 http://nopr.niscair.res.in/handle/123456789/54743

(13) Probing the low-lying level structure of ^{94}Zr through β^- decay

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

Indian Journal of Pure & Applied Physics, Vol. 58, April 2020, pp. 223-227 http://nopr.niscair.res.in/handle/123456789/54506

(14) In-beam spectroscopic study of ^{63}Zn

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

Phys. Rev. C 100, 034314 (2019) https://doi.org/10.1103/PhysRevC.100.034314

(15) Inelastic neutron scattering studies of ^{76}Se

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

Phys. Rev. C 99, 014313 (2019) https://doi.org/10.1103/PhysRevC.99.014313

(16) Emerging collectivity from the nuclear structure of ^{132}Xe: Inelastic neutron scattering studies and shell-model calculations

E.E.Peters, A.E.Stuchbery, **A.Chakraborty**, B.P.Crider, S.F.Ashley, A.Kumar, M.T.Mc Ellistrem, F.M.Prados-Estevez, S.W.Yates

Phys. Rev. C 99, 064321 (2019) https://doi.org/10.1103/PhysRevC.99.064321

(17) Measurement of neutron multiplicity to investigate the role of entrance channel parameters on the nuclear dissipation

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, **A.Chakraborty**

Phys. Rev. C 100, 014614 (2019) https://doi.org/10.1103/PhysRevC.100.014614

(18) Nuclear Data Sheets for A=217

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

Nucl. Data Sheets 147, 382 (2018) https://doi.org/10.1016/j.nds.2018.01.002

(19) Seniority structure of $^{136}Xe_{82}$

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

Phys. Rev. C 98, 034302 (2018) https://doi.org/10.1103/PhysRevC.98.034302

(20) High spin states in ^{63}Cu

S.Rai, B.Mukherjee, U.S.Ghosh, A.Biswas, **A.Chakraborty**, A.K.Mondal, S.Chakraborty, G.Mukherjee, I.Bala, R.P.Singh

Eur. Phys. J. A 54, 84 (2018) https://doi.org/10.1140/epja/i2018-12518-2

(21) Excited negative parity bands in ^{160}Yb

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

Phys. Scr. 93, 034001 (2018) https://doi.org/10.1088/1402-4896/aaa1fa

(22) Possible onset of multifaceted excitation modes in ^{29}Al

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

Phys. Rev. C 98, 014330 (2018) https://doi.org/10.1103/PhysRevC.98.014330

(23) Nuclear structure of ^{76}Ge from inelastic neutron scattering measurements and shell model calculations

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

Phys. Rev. C 95, 014327 (2017) https://doi.org/10.1103/PhysRevC.95.014327

(24) Level lifetimes and the structure of ^{134}Xe from inelastic neutron scattering

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

Phys. Rev. C 96, 014313 (2017) https://doi.org/10.1103/PhysRevC.96.014313

(25) Collective quadrupole behavior in ^{106}Pd

F.M.Prados-Estevez, E.E.Peters, **A.Chakraborty**, M.G.Mynk, 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

Phys. Rev. C 95, 034328 (2017) https://doi.org/10.1103/PhysRevC.95.034328

(26) E0 transitions in ^{106}Pd: Implications for shape coexistence

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

Eur. Phys. J. A 52, 96 (2016) https://doi.org/10.1140/epja/i2016-16096-y

(27) 0^+ states in $^{130, 132}$Xe: A search for E(5) behavior

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

Phys. Rev. C 94, 024313 (2016) https://doi.org/10.1103/PhysRevC.94.024313

(28) Shape coexistence in ^{153}Ho

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

Phys. Rev. C 94, 024311 (2016) https://doi.org/10.1103/PhysRevC.94.024311

(29) Neutron scattering differential cross sections for ^{23}Na from 1.5 to 4.5 MeV

J.R. Vanhoy, S.F. Hicks, **A. Chakraborty**, B.R. Champine, B.M. Combs, B.P. Crider, L.J.Kersting,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

Nuclear Physics A 939, 121 (2015) https://doi.org/10.1016/j.nuclphysa.2015.03.006

(30) A study of measured neutron elastic differential neutron cross sections for ^{23}Na

A. Kumar, M. Balasubramaniam, **A. Chakraborty**, B.P. Crider, S.F. Hicks, C. Karthikraj, L.J. Kersting, C.J. Luke, P.J. Mcdonough, M.T. McEllistrem, E.E. Peters, F.M. Prados-Estévez, A.J. Sigillito, M.M. Upadhyay, J.R. Vanhoy, and S.W. Yates

J. Radiational Nucl. Chem. 302, 1043 (2014) https://doi.org/10.1007/s10967-014-3535-x

(31) Collective Structure in ^{94}Zr and Subshell Effects in Shape Coexistence

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. Rand, B. Singh, E.R. Tardiff, Z.-M. Wang, J.L.Wood, and S.W. Yates ***Phys. Rev. Lett. 110, 022504 (2013)*** https://doi.org/10.1103/PhysRevLett.110.022504

(32) Level lifetimes in the stable Zr nuclei: Effects of chemical properties in Doppler-shift measurements

E. E. Peters, **A. Chakraborty**, B.P. Crider, B.H. Davis, M.K. Gnanamani, M.T. McEllistrem, F.M. Prados-Estévez, J.R. Vanhoy, and S. W. Yates

Phys. Rev. C 88, 024317 (2013) https://doi.org/10.1103/PhysRevC.88.024317

(33) Dipole response of ^{76}Se above 4 MeV

P.M. Goddard, N. Cooper, V. Werner, G. Rusev, P.D. Stevenson A. Rios, C. Bernards, **A.Chakraborty**, B.P. Crider, J. Glorius, R.S. Ilieva, J.H. Kelley, E. Kwan, E.E. Peters, N. Pietralla, R. Raut, C. Romig, D. Savran, L. Schnorrenberger, M.K. Smith, K. Sonnabend, A.P. Tonchev, W. Tornow, and S. W. Yates

Phys. Rev. C 88, 064308 (2013) https://doi.org/10.1103/PhysRevC.88.064308

(34) New Levels in the Structure of the ^{36}Cl by ^{72}Ge(^{35}Cl, n) Reaction
G. Kiran Kumar, S. Mukherjee, S.S. Ghugre, Krishichayan, S. Ray, **A. Chakraborty**, N.S. Pattabiraman, A.K. Sinha, S. Zhu, U. Garg, A.V. Afanasjev, S. Frauendorf, B. Kharaj
Arabian Journal for Science and Engineering 38, 181 (2013) https://doi.org/10.1007/s13369-012-0389-9

(35) New decay pattern of negative-parity states at *N = 90*
A. Chakraborty, F.M. Prados-Estévez, S.N. Choudry, B.P. Crider, P.E. Garrett, W.D. Kulp, A. Kumar, M.T. McEllistrem, S. Mukhopadhyay, M.G. Nayak, J.N. Orce, E.E. Peters, J.L. Wood, and S.W. Yates
Phys. Rev. C 86, 064314 (2012) https://doi.org/10.1103/PhysRevC.86.064314

(36) Status of vibrational structure in ^{62}Ni
A. Chakraborty, J.N. Orce, S.F. Ashley, B.A. Brown, B.P. Crider, E. Elhami, M.T. McEllistrem, S. Mukhopadhyay, E.E. Peters, B. Singh, and S.W. Yates
Phys. Rev. C 83, 034316 (2011) https://doi.org/10.1103/PhysRevC.83.034316

(37) Experimental study of nuclei in the vicinity of the "island of inversion" through the fusion-evaporation reaction
R. Chakrabarti, S. Mukhopadhyay, Krishichayan, **A. Chakraborty**, A. Ghosh, S. Ray, S. S. Ghugre, A. K. Sinha, L. Chaturvedi, A. Y. Deo, P. K. Joshi, R. Palit, Z. Naik, S. Kumar,N. Madhavan, R. P. Singh, S. Muralithar, B. K. Yogi, and U. Garg
Phys. Rev. C 80, 034326 (2009) https://doi.org/10.1103/PhysRevC.80.034326

(38) High spin states in ^{139}Pm
A. Dhal, R. K. Sinha, L. Chaturvedi, P. Agarwal, S. Kumar, A. K. Jain, R. Kumar, I. M. Govil, S. Mukhopadhyay, **A. Chakraborty**, Krishichayan, S. Ray, S. S. Ghugre, A. K. Sinha,R. Kumar, R. P. Singh, S. Muralithar, R. K. Bhowmik, S. C. Pancholi, and J. B. Gupta
Phys. Rev. C 80, 014320 (2009) https://doi.org/10.1103/PhysRevC.80.014320

(39) Triaxial shape coexistence and new aligned band in ^{178}Os
R. Kumar, I. M. Govil, A. Dhal, L. Chaturvedi, C. R. Praharaj, A. K. Rath, G. Kiran Kumar, S. K. Basu, **A. Chakraborty**, Krishichayan, S. Mukhopadhyay, N. S. Pattabiraman, S. S. Ghugre, and A. K. Sinha
Phys. Rev. C 80, 054319 (2009) https://doi.org/10.1103/PhysRevC.80.054319

(40) Level structure of the odd – odd nucleus ^{54}Mn
G. Kiran Kumar, S. Mukherjee, S. Mukhopadhyay, Krishichayan, S. Ray, S.S. Ghugre, **A. Chakraborty**, A.K. Sinha, and S.K. Basu
J. Phys. G: Nucl. Part. Phys. 35, 095104 (2008) https://doi.org/10.1088/0954-3899/35/9/095104

(41) High-spin states of ^{103}Ag
S. Ray, N.S. Pattabiraman, Krishichayan, **A. Chakraborty**, S. Mukhopadhyay, S.S. Ghugre,S.N. Chintalapudi, A.K. Sinha, U. Garg, S. Zhu, B. Kharaja, and D. Almehed
Phys. Rev. C 77, 024305 (2008) https://doi.org/10.1103/PhysRevC.77.024305

(42) High-spin structure and band termination in ^{103}Cd
A. Chakraborty, Krishichayan, S. Mukhopadhyay, S. Ray, S.N. Chintalapudi, S.S. Ghugre,N.S. Pattabiraman, A.K. Sinha, S. Sarkar, U. Garg, S. Zhu, and M. Saha Sarkar
Phys. Rev. C 76, 044327 (2007) https://doi.org/10.1103/PhysRevC.76.044327

(43) Spin-parity measurements in the neutron-rich N ~ 20 ^{34}P and ^{36}S nuclei
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I do hereby declare that all the information given above is true to the best of my knowledge and belief.

Place: Santiniketan
Date: 6th December, 2022

(Dr Anagha Chakarborty)