



Subhendu Rajbanshi

ASSISTANT PROFESSOR

Department of Physics
Faculty of Natural & Mathematical Sciences

☆ 86/1, College Street
Kolkata - 700 073

✉ subhendu.physics@presiuniv.ac.in

PROFILE

My research work evolved to investigate the extreme excitation mechanism for the generation of angular momentum states in weakly deformed nuclei near the shell closure using the gamma-ray spectroscopic techniques at different accelerator centres with the state of art large gamma detectors arrays. Lifetime measurement of the excited states of interest plays one of the key roles of the investigation. Different techniques, such as Doppler Shift Attenuation Method (DSAM), have been applied to measure the precise level lifetime. Presently, I am working on the phase transitional behaviour of the atomic nuclei along with the different aspect of the symmetry breaking phenomenon of the rapidly rotating nuclei, such as Chiral Symmetry Breaking, Wobbling Motion and Shape Coexistence etc

INTERESTS

✱ Nuclear Physics, Gamma-ray Spectroscopy, Symmetry and Nuclear Structure

ACADEMIC PROILE



QUALIFICATIONS

Ph. D (Saha Institute of Nuclear Physics, Kolkata)
M. Sc (University of Kalyani, Kalyani)
B. Sc (Hons) (University of Kalyani, Kalyani)
Higher Secondary (Nabadwip Bakultala High School, Nabadwip)
Madhyamik (Nabadwip Bakultala High School, Nabadwip)

EXPERIENCES

Assistant Professor, Dum Dum Motijheel College, Dum Dum (18-03-2015 - 16-08-2018)
Assistant Professor, Presidency University, Kolkata (17-08-2018 - 31-05-2025)
Superintendent of the Eden Hindu Hostel, Presidency University, Presidency University, Kolkata (06-09-2022 - 31-12-2025)

PUBLICATIONS

Journal Articles: 65

Conference Proceedings: 89

LINKS

Researchgate:: <https://www.researchgate.net/profile/Subhendu-Rajbanshi>
Google Scholar:: <https://scholar.google.com/citations?user=QzEq03kAAAAJ&hl=en>
ORCID:: <https://orcid.org/0000-0002-2001-6734>

PRESIDENCY UNIVERSITY KOLKATA



Hindoo College (1817-1855), Presidency College (1855-2010)
86/1, College Street, Kolkata – 700 073, Phone: (033) 2241 1960, Fax: (033) 22412738

Subhendu Rajbanshi

PUBLICATIONS

Articles in Research Journals

1. Snigdha Pal et al (2026). Experimental evidence of transverse wobbling motion in ^{185}Au : Revealing a transition from transverse to longitudinal wobbling in Au isotopes. *Physics Letters B*, 877, 140454-140454. doi: 10.1016/j.physletb.2026.140454.
2. Atreyee Dey et al. (2026). Investigation of new and evolving structures in ^{125}Te using γ -spectroscopy. *Physical Review C*, 113, 24319-24319. doi: <https://doi.org/10.1103/1brn-3bxq>.
3. D. Kumar et al. (2026). Lifetimes and transition probabilities in ^{76}Kr , ^{130}Xe . *Nuclear Physics A*, 1069, 123354-123354. doi: 10.1016/j.nuclphysa.2026.123354.
4. Habibur Rahaman et al (2026). Coexistence of shapes and octupole correlation in ^{82}Kr . *Physical Review C*, 113, 14309-14309. doi: <https://doi.org/10.1103/wwwpf-ytv4>.
5. Arkadip Bera et. al. (2025). Structural evolution and K mixing in ^{52}Cr : A shell model description. *Physical Review C*, 112, 44305-44305. doi: <http://doi.org/10.1103/xf4g-1mvr>.
6. Snigdha Pal et al. (2025). First identification of a magnetic rotational band in ^{190}Tl . *Eur. Phys. J. A*, 61, 205-205. doi: <https://doi.org/10.1140/epja/s10050-025-01678-3>.
7. S. Basu et al. (2025). Conclusive evidence of magnetic rotational band in ^{57}Fe : Extending the shears mechanism to the fp shell orbital. *Physics Letters B*, 868, 139642-139642. doi: <https://doi.org/10.1016/j.physletb.2025.139642>.
8. S. Rajbanshi et al. (2025). Conclusive evidence of a two-neutron multiphonon transverse wobbling mode in ^{82}Kr . *Physical Review C Letter*, 111, 0-0. doi: doi.org/10.1103/PhysRevC.111.L061301.
9. S. Banerjee et al (2025). Decay of ^{131}La . *Nucl. Phys. A*, 1061, 123142-123142. doi: <https://doi.org/10.1016/j.nuclphysa.2025.123142>.
10. S. Basu et al. (2025). Rotational band based on 2^{-} orbital in ^{55}Mn . *Nuclear Physics A*, 1059, 123092-123092. doi: <https://doi.org/10.1016/j.nuclphysa.2025.123092>.
11. B. Das et al. (2025). Emergence of magnetic dipole band in ^{88}Sr due to novel stretched coupling Scheme. *Physics Letters B*, 862, 139324-139324. doi: <https://doi.org/10.1016/j.physletb.2025.139324>.
12. S. Ali et al. (2025). Exhibition of multiple band structures of different kind in ^{142}Eu . *Physical Review C*, 111, 24303-24303. doi: <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.111.024303>.
13. Mamta Prajapati et al. (2024). Evolution of quadrupole and octupole excitations beyond noncollective states in ^{114}Te . *Physical Review C*, 110, 64321-64321. doi: <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.110.064321>.
14. S. Rajbanshi et al. (2024). Signatures of transverse wobbling motion in ^{139}Pm . *Physical Review C*, 111, 44315-44315. doi: <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.110.044315>.
15. S. Rajbanshi et al. (2024). Antimagnetic rotation in the shape-phase transition point nucleus ^{82}Kr . *Physical Review C*, 109, 64308-64308. doi: <https://journals.aps.org/prc/abstract/10.1103/PhysRevC.109.064308>.
16. A. Dey et al. (2024). Yrast and nonyrast states in ^{126}Te . *Physical Review C*, 109, 44327-44327. doi: <https://journals.aps.org/prc/pdf/10.1103/PhysRevC.109.044327>.
17. Shabir Dar et al., (2024). Coexistence of low-K oblate and high-K prolate 2^{-} proton-hole bands in ^{115}Sb . *Physics Letters B*, 851, 138565-138565. doi: <https://doi.org/10.1016/j.physletb.2024.138565>.
18. S. Basu et al. (2023). Revealing new structures in odd-odd ^{54}Mn nucleus. *Eur. Phys. J. A*, 59, 223-223. doi: <https://doi.org/10.1140/epja/s10050-023-01147-9>.
19. AK Mondal, A Chakraborty, K Mandal, US Ghosh, Aniruddha Dey, Saumyajit Biswas, B Mukherjee, S Chatterjee, SK Das, S Samanta, R Raut, SS 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 (2023). Investigation of the low- and medium-spin level structure in ^{77}As . *Physical Review C*, 107(1), 0-0. doi: <https://doi.org/10.1103/PhysRevC.107.064320>.
20. S Chakraborty, S Bhattacharyya, R Banik, Soumik Bhattacharya, G Mukherjee, C Bhattacharya, S Biswas, S Rajbanshi, Shabir Dar, S Nandi, Sajad Ali, S Chatterjee, S Das, S Das Gupta, SS Ghugre, A Goswami, A Lemasson, Debasish Mondal, S Mukhopadhyay, A Navin, H Pai, Surajit Pal, Deepak Pandit, R Raut, Prithwijita Ray, M Rejmund, S Samanta Search for the origin of wobbling (2023). Search for the origin of wobbling motion in the A ~ 130 region: The case of ^{131}Xe . *Physical Review C*, 107(1), 0-0. doi: <https://doi.org/10.1103/PhysRevC.107.064318>.
21. Rajkumar Santra, Balaram Dey, Subinit Roy, R Palit, Md SR Laskar, H Pai, S Rajbanshi, Sajad Ali, Saikat

- Bhattacharjee, FS Babra, Anjali Mukherjee, S Jadhav, Balaji S Naidu, Abraham T Vazhappilly, Sanjoy Pal (2023). Collective enhancement in nuclear level density of ^{72}Ga and ^{71}Ga from γ -gated proton spectra. *Physical Review C*, 107(1), 0-0. doi: <https://doi.org/10.1103/PhysRevC.107.064611>.
22. Mukherjee, A., Bhattacharya, S., Trivedi, T., Tiwari, S., Singh, R., Muralithar, S., Yashraj, , Katre, K., Kumar, R., Palit, R., Chakraborty, S., Jehangir, S., Nazir, N., Rouoof, S., Bhat, G., Sheikh, J., Rather, N., Raut, R., Ghugre, S., Ali, S., Rajbanshi, S., Nag, S., Tiwary, S., Sharma, A., Kumar, S., Yadav, S., & Jain, A. (2023). Evidence of transverse wobbling motion in ^{151}Eu . *Physical Review C*, 107(5), 0-0. doi: <https://doi.org/10.1103/PhysRevC.107.054310>.
 23. Anik Adhikari, Dibyadyuti Pramanik, S Sarkar, M Saha Sarkar, Abhijit Bisoi, Sudatta Ray, Subhendu Rajbanshi, S Saha, J Sethi, BS Naidu, R Donthi, V Nanal, R Palit (2022). Experimental evidences of shape co-existence in ^{154}Ho . *Nuclear Physics A*, 1027(1), 0-0. doi: <https://doi.org/10.1016/j.nuclphysa.2022.122495>.
 24. S Bhattacharya, T Trivedi, A Mukherjee, D Negi, RP Singh, S Muralithar, S Jehangir, GH Bhat, Nazira Nazir, JA Sheikh, N Rather, R Palit, S Nag, S Rajbanshi, S Chakraborty, S Kumar, M Kumar Raju, VV Parkar, D Choudhury, R Kumar, RK Bhowmik, SC Pancholi, AK Jain (2022). Evidence for prolate-oblate shape coexistence in the odd-A ^{73}Br nucleus. *Physical Review C*, 106(1), 0-0. doi: <https://doi.org/10.1103/PhysRevC.106.044312>.
 25. Y. Sapkota, Rozina Rahaman, Abhijit Bisoi, Anik Adhikari, Arkabrata Gupta, Ananya Das, H. Ghosh, S. Sarkar, Dibyadyuti Pramanik, Sangeeta Das, Sathi Sharma, S. Ray, S. Rajbanshi, Shabir Dar, S. Nandi, S. Bhattacharya, T. Bhattacharjee, G. Mukherjee, S. Bhattacharyya, S. Samanta, S. Das, S. Chatterjee, R. Raut, and S. S. Ghugre (2022). Structural evolution and K mixing in ^{49}V . *Physical Review C*, 105(1), 0-0. doi: <https://doi.org/10.1103/PhysRevC.105.044304>.
 26. S Nandi, G Mukherjee, A Dhal, R Banik, Soumik Bhattacharya, S Basu, Shabir Dar, S Bhattacharyya, C Bhattacharya, S Kundu, D Paul, S Rajbanshi, S Chatterjee, S Das, S Samanta, R Raut, SS Ghugre, H Pai, Sajad Ali, S Biswas, A Goswami (2022). Different manifestations of triaxial shapes of the positive and negative parity bands in ^{187}Os . *Physical Review C*, 105(1), 0-0. doi: <https://doi.org/10.1103/PhysRevC.105.034336>.
 27. Shabir Dar, Soumik Bhattacharya, S Bhattacharyya, R Banik, S Nandi, G Mukherjee, S Rajbanshi, S Das Gupta, Sajad Ali, S Chakraborty, S Chatterjee, S Das, A Dhal, SS Ghugre, A Goswami, D Mondal, S Mukhopadhyay, H Pai, S Pal, D Pandit, R Raut, P Ray, S Samanta (2022). Magnetic rotational band in ^{116}Sb . *Nuclear Physics A*, 1016(1), 0-0. doi: <https://doi.org/10.1016/j.nuclphysa.2022.122382>.
 28. Prithwijita Ray, H Pai, Sajad Ali, A Mukherjee, S Rajbanshi, S Chakraborty, Soumik Bhattacharya, R Banik, S Nandi, S Bhattacharyya, G Mukherjee, C Bhattacharya, G Gangopadhyay, S Samanta, S Das, S Chatterjee, R Raut, SS Ghugre, PC Srivastava, S Jehangir, Bharti Bhoy, N Rather, GH Bhat, JA Sheikh, A Goswami (2022). Three-phonon multiplets in ^{116}Sn . *Nuclear Physics A*, 1018(1), 0-0. doi: <https://doi.org/10.1016/j.nuclphysa.2021.122375>.
 29. A Mukherjee, S Bhattacharya, T Trivedi, RP Singh, S Muralithar, D Negi, R Palit, S Nag, S Rajbanshi, M Kumar Raju, S Kumar, D Choudhury, R Kumar, RK Bhowmik, SC Pancholi, AK Jain (2022). Shape coexistence and octupole correlations in ^{72}Se . *Physical Review C*, 105(1), 0-0. doi: <https://doi.org/10.1103/PhysRevC.105.014322>.
 30. S Rajbanshi, R Palit, R Raut, YY Wang, ZX Ren, J Meng, QB Chen, Sajad Ali, H Pai, FS Babra, R Banik, S Bhattacharya, S Bhattacharyya, P Dey, S Malik, G Mukherjee, Md SR Laskar, S Nandi, Rajkumar Santra, T Trivedi, SS Ghugre, A Goswami (2021). Evidence of octupole correlation in ^{79}Se . *Physical Review C*, 104(1), 0-0. doi: <https://doi.org/10.1103/PhysRevC.104.064316>.
 31. S. Bhattacharya et al. (2021). Search for E(5) Critical Point Symmetry in Light Ge Isotopes. *Bulgarian Journal of Physics*, 48, 541-546. doi: <https://doi.org/10.55318/bgjp.2021.48.5-6.541>.
 32. S Rajbanshi, S Bhattacharya, R Raut, R Palit, Sajad Ali, Rajkumar Santra, H Pai, FS Babra, R Banik, S Bhattacharyya, P Dey, G Mukherjee, Md SR Laskar, S Nandi, T Trivedi, SS Ghugre, A Goswami (2021). Experimental evidence of exact E(5) symmetry in ^{82}Kr . *Physical Review C*, 104(1), 0-0. doi: <https://doi.org/10.1103/PhysRevC.104.L031302>.
 33. Md. S. R. Laskar, R. Palit, E. Ideguchi, T. Inakura, S. N. Mishra, F. S. Babra, S. Bhattacharya, D. Choudhury, Biswajit Das, B. Das, P. Dey, U. Garg, A. K. Jain, A. Kundu, D. Kumar, D. Negi, S. C. Pancholi, S. Rajbanshi, and S. Sihotra (2021). Enhanced B (E3) strength observed in ^{137}La . *Physical Review C*, 104(1), 0-0. doi: <https://doi.org/10.1103/PhysRevC.104.L011301>.
 34. A Kundu, Md SR Laskar, R Palit, R Raut, S Santra, N Shimizu, T Togashi, E Ideguchi, H Pai, S Ali, FS Babra, R Banik, Soumik Bhattacharya, S Biswas, Biswajit Das, P Dey, R Donthi, A Goswami, S Jadhav, G Mukherjee, BS Naidu, S Rajbanshi, LP Singh, HP Sharma, SS Tiwary, AT Vazhappilly (2021). New lifetime measurement for the $2+1$ level in ^{112}Sn by the Doppler-shift attenuation method. *Physical Review C*, 103(1), 0-0. doi: <https://doi.org/10.1103/PhysRevC.103.034315>.
 35. F. S. Babra, S. Jehangir, R. Palit, S. Biswas, B. Das, S. Rajbanshi, G. H. Bhat, J. A. Sheikh, Biswajit Das, P. Dey, U. Garg, Md. S. R. Laskar, C. Palshetkar, S. Saha, L. P. Singh, and P. Singh (2021). Investigation of the alignment mechanism and loss of collectivity in ^{135}Pm . *Physical Review C*, 103(1), 0-0. doi: <https://doi.org/10.1103/PhysRevC.103.01431>.

36. A Mukherjee, S Bhattacharya, T Trivedi, RP Singh, S Muralithar, D Negi, R Palit, S Nag, S Rajbanshi, S Kumar, M Kumar Raju, D Choudhury, S Sihotra, R Kumar, SC Pancholi, AK Jain (2021). Shape Coexistence in Proton Rich Se Isotopes. *Bulg. J. Phys.*, 48(1), 0-0. doi: <https://doi.org/10.55318/bgjp.2022.49.1.108>.
37. AK Mondal, A Chakraborty, K Mandal, US Ghosh, Aniruddha Dey, Saumyajit Biswas, B Mukherjee, S Rai, S Chatterjee, SK Das, S Samanta, R Raut, SS Ghugre, S Rajbanshi, R Banik, S Bhattacharyya, S Nandi, S Bhattacharya, G Mukherjee, S Ali, A Goswami, R Chakrabarti, S Mukhopadhyay, AK Sinha, V Kumar, A Kumar (2020). Investigation of different possible excitation modes in neutron-rich 78As. *Physical Review C*, 102(6), 0-0. doi: <https://doi.org/10.1103/PhysRevC.102.064311>.
38. S. Nandi, G. Mukherjee, Q. B. Chen, S. Frauendorf, R. Banik, Soumik Bhattacharya, Shabir Dar, S. Bhattacharyya, C. Bhattacharya, S. Chatterjee, S. Das, S. Samanta, R. Raut, S. S Ghugre, S. Rajbanshi, Sajad Ali, H. Pai, Md. A. Asgar, S. Das Gupta, P. Chowdhury, and A. Goswami (2020). First observation of multiple transverse wobbling bands of different kinds in 183Au. *Physical Review Letters*, 125(1), 0-0. doi: <https://doi.org/10.1103/PhysRevLett.125.132501>.
39. Rajkumar Santra, Balaram Dey, Subinit Roy, Md SR Laskar, R Palit, H Pai, S Rajbanshi, Sajad Ali, Saikat Bhattacharjee, FS Babra, Anjali Mukherjee, S Jadhav, Balaji S Naidu, Abraham T Vazhappilly, Sanjoy Pal (2020). Nuclear level density of 69Zn from gamma gated particle spectrum and its implication on 68Zn (n, γ) 69Zn capture cross section. *Physics Letters B*, 806(1), 0-0. doi: <https://doi.org/10.1016/j.physletb.2020.135487>.
40. Prithwijita Ray, H Pai, Sajad Ali, Anjali Mukherjee, A Goswami, S Rajbanshi, Soumik Bhattacharya, R Banik, S Nandi, S Bhattacharyya, G Mukherjee, C Bhattacharya, S Chakraborty, G Gangopadhyay, Md SR Laskar, R Palit, GH Bhat, S Jehangir, JA Sheikh, AK Sinha, S Samanta, S Das, S Chatterjee, R Raut, SS Ghugre (2020). Quasi- band in 114Te. *Physical Review C*, 101(6), 0-0. doi: <https://doi.org/10.1103/PhysRevC.101.064313>.
41. R Banik, S Bhattacharyya, S Biswas, Soumik Bhattacharya, G Mukherjee, S Rajbanshi, Shabir Dar, S Nandi, Sajad Ali, S Chatterjee, S Das, S Das Gupta, SS Ghugre, A Goswami, A Lemasson, D Mondal, S Mukhopadhyay, H Pai, S Pal, D Pandit, R Raut, Prithwijita Ray, M Rejmund, S Samanta: (2020). Revealing multiple band structures in 131Xe from the γ -induced reaction. *Physical Review C*, 101(4), 0-0. doi: <https://doi.org/10.1103/PhysRevC.101.044306>.
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43. Sajad Ali, S. Rajbanshi, B. Das, S. Chattopadhyay, M. Saha Sarkar, and A. Goswami, R. Raut, Abhijit Bisoi, Somnath Nag, S. Saha, J. Sethi, and R. Palit, G. Gangopadhyay, T. Bhattacharjee, S. Bhattacharyya, and G. Mukherjee, A. K. Singh, T. Trivedi (2019). Evidence of the octupole correlation between the shears bands in 142Eu. *Physics letters B*, 798, (1), 0-0. doi: <https://doi.org/10.1016/j.physletb.2019.134960>.
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45. H. Pai, Sajad Ali, S. Rajbanshi, Prithwijita Ray, Subinit Roy, A. Goswami (2019). 112Sn Target : Fabrication, Characterization and Application. *Vacuum*, 167(1), 0-0. doi: <https://doi.org/10.1016/j.vacuum.2019.06.034>.
46. A. Saha, T Bhattacharjee, D Curien, I Dede, K Mazurek, S R Banerjee, S Rajbanshi, ABisoi, G de Angelis, Soumik Bhattacharya, S Bhattacharyya, S Biswas, A Chakraborty, SDas Gupta, B Dey, A Goswami, D Mondal, D Pandit, R Palit, T Roy, R P Singh, M Saha Sarkar, S Saha and J Sethi (2019). Corrigendum: Spectroscopy of a tetrahedral doubly magic candidate nucleus 160Yb90. *Journal of Physics G:Nuclear and Particle Physics*, 46(1), 0-0. doi: <https://doi.org/10.1088/1361-6471/ab37af>.
47. S. Bhattacharya, T. Trivedi, D. Negi, R. P. Singh, S. Muralithar, R. Palit, I. Ragnarsson, S. Nag, S. Rajbanshi, M. Kumar Raju, V. V. Parkar, G. Mohanto, S. Kumar, D. Choudhury, R. Kumar, R. K. Bhowmik, S. C. Pancholi, and A. K. Jain (2019). Evolution of collectivity and evidence of octupole correlations in 73Br. *Physical Review C*, 100(1), 0-0. doi: <https://doi.org/10.1103/PhysRevC.100.014315>.
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89. S. Rajbanshi et al. (2011). Observation of high-spin states in 153 Er. In DAE (Ed.), *Proceedings of the DAE Symp. on Nucl. Phys.* 56 (2011) (pp. 720-721). DAE: DAE.

Conference Presentations

1. S. Rajbanshi (2025, March 09-12). *Symmetry and Nuclear Structure: Recent Evidences of Critical Point Symmetries in Atomic Nuclei* [Plenary Session]. Frontiers in Gamma Ray Spectroscopy, TIFR, Mumbai, India. https://scitalks.tifr.res.in/event/8987/attachments/3142/3564/Abstract-Book_FIG25.pdf.
2. S. Rajbanshi (2022, December 07-12). *Symmetry and nuclear structure: E5 symmetry in 82Kr* [Plenary Session]. Proceedings of the DAE Symp. on Nucl. Phys. 66 (2022), Guwahati, India. <https://www.sympnp.org/proceedings/66/I20.pdf>.
3. S. Rajbanshi (2018, March 12-18). *Possibility of Wobbling excitation in the even-even 142Gd nucleus* [Poster Presentation]. Frontiers in Gamma Ray Spectroscopy FIG18, TIFR, Mumbai, India. <https://www.tifr.res.in/~nsg/FIG18.html>.
4. S. Rajbanshi (2016, December 09 - 2025, May 12). *Generation of angular momentum in weakly deformed nuclei in mass ~ 140 region* [Poster Presentation]. Proceedings of the DAE-BRNS Symp. on Nucl. Phys. 61 (2016), SINP, Kolkata, India. <https://www.sympnp.org/proceedings/61/T5.pdf>.
5. S. Rajbanshi (2015, August 21-22). *Observation of Shears mechanism in 143Eu* [Paper Presentation]. 33rd YOUNG PHYSICISTS COLLOQUIUM, 2015, SINP, Kolkata, India. <https://iacs.res.in/maincontroller.php?navid=19&subnavid=70>.
6. S. Rajbanshi et al. (2014, December 05-09). *Observation of the nearly degenerate doublet band in 143Sm nucleus: Violation of the chiral symmetry* [Paper Presentation]. Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014), Delhi, India. <https://www.sympnp.org/proceedings/59/A11.pdf>.
7. S. Rajbanshi et al, (2014, December 04-09). *Effect of the clover geometry on the LINESHAPE analysis* [Paper Presentation]. Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014), Delhi, India. <https://www.sympnp.org/proceedings/59/A12.pdf>.
8. S. Rajbanshi et al, (2014, December 04-09). *Magnetic Rotational band in 141Sm nucleus* [Poster Presentation]. Proceedings of the DAE Symp. on Nucl. Phys. 59 (2014), Delhi, India. <https://www.sympnp.org/proceedings/59/A59.pdf>.
9. S. Rajbanshi (2013, April 04-08). *Gamma-ray Polarization Sensitivity Measurement for INGA at TIFR* [Paper Presentation]. National conference on INGA user workshop under DST Indian National Gamma Array Project at TIFR, Mumbai (2013), TIFR, Mumbai, India. <https://www.sympnp.org/proceedings/57/I11.pdf>.
10. S. Rajbanshi et al., (2012, December 06-10). *Search for Shears Mechanism in 142Sm* [Paper Presentation]. Proceedings of the DAE Symp. on Nucl. Phys. 57 (2012), Delhi, India. <https://www.sympnp.org/proceedings/57/A13.pdf>.
11. S. Rajbanshi (2012, December 06-11). *Determination of nuclear life time from time stamped decay data* [Poster Presentation]. Proceedings of the DAE Symp. on Nucl. Phys. 57 (2012), Delhi, India.

<https://www.sympnp.org/proceedings/57/A31.pdf>.

12. S. Rajbanshi et al. (2011, December 04-09). *Observation of high-spin states in ^{153}Er* [Poster Presentation]. Proceedings of the DAE Symp. on Nucl. Phys. 56 (2011), Andhra University, India.
<https://www.sympnp.org/proceedings/57/A31.pdf>.

RESEARCH

Research Projects

1. Subhendu Rajbanshi (PI) (2021). Completed SERB funded project titled *Investigation of the octupole excitation and $E(5)$ symmetry breaking for nuclei in $A \sim 80$ region*. Rs. 27.54 Lakh. 01 February 2021 - 30 April 2024 [CRG/2020/003370]
2. Subhendu Rajbanshi (PI) (2019). Ongoing UGC-DAE-CSR- Kolkata Centre funded project titled *Second order phase transition in atomic nuclei: $E(5)$ symmetry breaking in ^{84}Sr* . Rs. 12 Lakh. 01 June 2019 - 31 May 2022 [UGC-DAE-CSR KC/1st June 2019]

Doctoral Research Guidance

SL	Researcher	Fellowship	Level	Research Title	Period	Status
1.	Saikat Sen	JRF (CSIR)	Doctoral	Investigation of the different symmetry breaking phenomena in atomic nuclei	02-04-2025 - 01-04-2030	Ongoing
2.	Rahul Biswas	JRF (UGC)	Doctoral	Investigation of the Dynamical and Critical Point Symmetries in Atomic Nuclei	01-09-2024 - 01-09-2029	Ongoing
3.	Habibur Rahaman	JRF (IEST)	Doctoral	Investigation of the octupole excitation and $E(5)$ symmetry breaking for nuclei in $A \sim 80$ region	01-01-2024 - 31-12-2028	Ongoing

Other Research Guidance

SL	Researcher	Fellowship	Level	Research Title	Period	Status
1.	Renisha Mandal	NA (NA)	Undergraduate	Projected shell model and its extension	16-01-2025 - 30-06-2025	Completed
2.	Saheli Halder	NA (NA)	Postgraduate	Critical Point Symmetries in Atomic Nuclei	16-07-2024 - 16-06-2025	Completed
3.	Soumya Das	NA (NA)	Undergraduate	Realistic Shell Model Calculations	16-01-2024 - 16-06-2024	Completed
4.	Saikat Sen	NA (NA)	Postgraduate	Isospin Symmetry Breaking in Mirror nuclei ^{19}F - ^{19}Ne	16-07-2023 - 16-06-2024	Completed
5.	Mousumi Sarkar	NA (NA)	Postgraduate	Quantum Phase Transitions and Critical Point Symmetries in Atomic Nuclei	16-07-2023 - 16-06-2024	Completed
6.	Sagnika Das	NA (NA)	Postgraduate	R-matrix calculation for low energy nuclear reactions	01-07-2022 - 31-07-2023	Completed
7.	Somnath Kumbhakar	NA (NA)	Postgraduate	Quantum Phase Transitions and Critical Point Symmetries in Atomic Nuclei	01-07-2022 - 29-07-2023	Completed
8.	Saikat Sen	NA (NA)	Undergraduate	Iso-spin Symmetry breaking in mirror nuclei ^{19}F - ^{19}Ne	16-01-2022 - 16-06-2022	Completed
9.	Subhadip Bhattacharya	NA (NA)	Undergraduate	Spontaneous Symmetry breaking in the rapidly rotating nuclei	16-01-2022 - 16-06-2022	Completed
10.	Kanad Sengupta	NA (NA)	Undergraduate	Exploration of origin of the proton rich stable nuclei	16-01-2021 - 16-06-2021	Completed
11.	Subhadip Chakraborty	NA (NA)	Undergraduate	Quantum Phase Transitions and Critical Point Symmetries in Atomic Nuclei	16-01-2021 - 16-06-2021	Completed

12.	Niladri Roy	NA (NA)	Postgraduate	Resonance states in ^{19}F and its importance to the Nucleosynthesis process	16-07-2020 - 16-06-2021	Completed
13.	Shayan Kumar	NA (NA)	Postgraduate	Wobbling Motion in the even-even Atomic Nuclei	16-07-2020 - 16-06-2021	Completed
14.	Soumik Poddar	NA (NA)	Postgraduate	Quantum Phase Transitions and Critical Point Symmetries in Atomic Nuclei	16-07-2020 - 16-06-2021	Completed
15.	Arkadeep Pal	NA (NA)	Postgraduate	R-matrix calculation for low energy nuclear reactions	16-07-2020 - 16-06-2021	Completed
16.	Sujit Malik	NA (NA)	Postgraduate	Impact on Shell Structure due to large N/Z symmetry: A case of ^{79}Se	16-07-2019 - 16-06-2020	Completed
17.	Soumitra Paul	NA (NA)	Postgraduate	Structural Studies of atomic nuclei produce during cauldron in the cosmos: Astrophysical Importance of ^{23}Na	16-07-2019 - 16-06-2020	Completed
18.	Samali Ghosh	NA (NA)	Postgraduate	Structural Studies of atomic nuclei produce during cauldron in the cosmos: Astrophysical Importance of ^{20}Ne	16-07-2019 - 16-06-2020	Completed
19.	Mr. Souprana Nath	NA (NA)	Undergraduate	Investigating the Abrupt Phase Transitional Behaviour in Atomic Nuclei	16-01-2019 - 16-06-2019	Completed
20.	Niladri Roy	NA (NA)	Undergraduate	Possibility of Attractive Shears in Atomic Nuclei	16-01-2019 - 16-06-2019	Completed

Award and Recognition

1. Awarded the *2nd Prize in the Poster Presentation at DAE Symposium On Nuclear Physics* by Department of Atomic Energy, India at BARC, Mumbai, 07 December 2012 - 06 December 2013
2. Awarded the *Junior Research Fellowship and Eligibility for Lectureship (NET)* by Council Of Scientific & Industrial Research for Obtained Ph.D Degree at Saha Institute of Nuclear Physics, Kolkata, 01 July 2010 - 17 March 2015

Subhendu Rajbanshi