

Publications in Journals – 2025

1. Shabir Dar, Soumik Bhattacharya, S. Bhattacharyya, G. H. Bhat, S. Jehangir, J. A. Sheikh, R. Banik, S. Nandi, G. Mukherjee, Sajad Ali, S. Chakraborty, S. Chatterjee, S. Das, S. Das Gupta, A. Dhal, S. S. Ghugre, A. Goswami, D. Mondal, S. Mukhopadhyay, S. Pal, D. Pandit, R. Raut, P. Ray, “Coexistence of single-particle and collective states in ^{116}Sb ”, *Physical Review C* 111 (2025) 14328
2. Ram Kumar Paul, R. Bhattacharjee, S. Bitragunta, A. Das, A. Banerjee, P. Dhara, T. Samanta and S. Pal, “Residual analysis based neutron-gamma pulses segregation of liquid scintillator detector”, *Journal of Instrumentation* 20 (2025) P01015
3. R. Mondal Saha, K. Banerjee, A. Chakraborty, N. Gayathri, Souvik Jana, Satya Samiran Nayak, G. R. Umapathy, Anirban Basak, S. Bhattacharyya, R. Shil, Satyajit Hazra, Saif Ahmad Khan, “Preparation of selenium target using sedimentation method for in-beam gamma-ray spectroscopic measurement”, *Nuclear Instruments and Methods in Physics Research Section A* 1074 (2025) 170288
4. Ekata Nandy, Subhasis Chattopadhyay, “Searching for initial state fluctuations in heavy ion collisions at FAIR energy using principal component analysis”, *The European Physical Journal A* 61 (2025) 39
5. Akash Mitra, Sanku Paul, Shashi C. L. Srivastava, “Quantum criticality and universality in the stationary state of the long-range Kitaev model”, *Physical Review B* 111 (2025) 104308
6. A. Pal, P. Behre, M. K. Jha, S. Basak, Devesh Kumar, S.S. Alam, S. Roy, J. -M. Regis, T. Bhattacharjee and T. Bhattacharjee, “Design of GAMMA-GAMMA fast timing setup VENTURE-2.0 with CeBr_3 detectors”, *Journal of Instrumentation* 20 (2025) P02022
7. Sujan Kumar Roy, Gargi Chaudhuri, “I-C-Q relations for rapidly rotating stable hybrid stars”, *Astroparticle Physics* 170 (2025) 103108

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10. J. Mukherjee, D. Bhowmik, S. Bhowmick, Prasanta Karmakar, S. Bhattacharjee, “Low energy ion-beam mediated tailoring of structural, optical, and electrical properties of ITO films”, *Surface & Interface* 59 (2025) 105973
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14. S. Mallik, “Isospin effect on the liquid-gas phase transition for finite nuclei”, *Nuclear Physics A* 1055 (2025) 123009

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16. Trijit Kumar Maiti, "Exergy evaluation through experimental validation of a helium liquefier model under various off-design mixed mode operations with and without LN2 pre-cooling", *Fusion Engineering and Design* 215 (2025) 114966
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25. ALICE Collaboration, “Addendum: Dielectron production in proton-proton and proton-lead collisions at $\sqrt{s_{\text{NN}}}=5.02\text{TeV}$ ”, Physical Review C 111 (2025) 24905
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32. Apar Agarwal, Souvik Chattopadhyay, Pawan Kumar Sharma, Anand Kumar Dubey, Jogender Saini, Vikas Singhal, Vinod Negi, Ekata Nandy, Chandrasekhar Ghosh, David Emschermann, Zubayer Ahammed and Subhasis Chattopadhyay, “Testing a large size triple GEM detector for the first station of the CBM-Muon Chambers with a high-intensity gamma source at GIF++ under large-area illumination”, Journal of Instrumentation 20 (2025) P04022
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