

Publications in Journals – 2026

1. Soumen Podder, Sujan Kumar Roy, Suman Pal, Gargi Chaudhuri, “High mass pulsars as hybrid stars: Phase transitions and oscillation modes”, *Journal of High Energy Astrophysics* 49 (2026) 100457
2. Sourav Duari, Nilanjan Chaudhuri, Pradip Roy, Sourav Sarkar, “Dynamical color conductivity of a chiral quark-gluon plasma”, *Physical Review D* 113 (2026) 14011
3. T. Bhattacharjee, A. Pal, D. Kumar, S. Basak, S.S. Alam, “Lifetime measurements with fast timing scintillation detectors at VECC, Kolkata”, *Nuclear Physics A* 1065 (2026) 123254
4. S. Chakraborty, S. Bhattacharyya, S.S. Nayak, Soumik Bhattacharya, G. Mukherjee, Snigdha Pal, S. Panwar, Suchorita Paul, S. Jehangir, G.H. Bhat, J.A. Sheikh, C. Majumder, A. Sharma, Pankaj K. Giri, R. Raut, S.S. Ghugre, “Low-j rotational bands in ^{127}Xe ”, *Nuclear Physics A* 1065 (2026) 123251
5. ALICE Collaboration, “Exclusive photoproduction of excited p mesons decaying to four pions in ultraperipheral Pb–Pb collisions at root $s_{\text{NN}}=5.02$ TeV”, *Physics Letters B* 872 (2026) 140006
6. Habibur Rahaman, S. Rajbanshi, Abhijit Bisoi, G. Manna, R. Biswas, Saikat Sen, R. Palit, Sajad Ali, F. S. Babra, R. Banik, S. Bhattacharya, S. Bhattacharyya, P. Dey, Md. S. R. Laskar, G. Mukherjee, S. Nandi, H. Pai, Rajkumar Santra, T. Trivedi, “Coexistence of shapes and octupole correlation in ^{82}Kr ”, *Physical Review C* 113 (2026) 14309
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8. Tapatee Kundu Roy, “Grain growth kinetics, microhardness and nonlinear electrical properties of $\text{ZnO-V}_2\text{O}_5\text{-Nb}_2\text{O}_5$ varistor ceramics”, *Solid State Communications* 409 (2026) 116295

9. Atreyee Dey , A. K. Singh, Anwesha Basu, Somnath Nag, G. Mukherjee, S. Bhattacharyya, S. Nandi, S. Bhattacharya, R. Banik, R. Raut , S. S. Ghugre, S. Das, S. Samanta, S. Chatterjee, A. Goswami, S. Ali, H. Pai, S. Rajbanshi, “Investigation of new and evolving structures in ^{125}Te using γ spectroscopy”, *Physical Review C* 113 (2026) 24319
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11. Saumanti Sadhukhan, S. Mukhopadhyay, Saswata Roy, Debasish Mondal, Deepak Pandit, Surajit Pal, R. Shil, K. Banerjee, S. Bhattacharyya, “A novel setup of $\text{LaBr}_3(\text{Ce})$ - $\text{NaI}(\text{Tl})$ phoswich and BaF_2 detectors for gamma-ray measurement with anti-Compton and addback features”, *Nuclear Instruments and Methods in Physics Research Section A, Part 1* 1082 (2026) 170913
12. Dharmendra Singh, Amritraj Mahato, Nitin Sharma, Rajesh K. Sahoo, Rahul Mahato, Lupteindu Chhura, Mohd. Usman, Rahbar Ali, M. Afzal Ansari, M. Ismail, “Production of ^{57}Co and ^{51}Cr isotopes for medical application in the interaction of ^{16}O projectile with ^{45}Sc target”, *Nuclear Physics A* 1066 (2026) 123285
13. CBM Collaboration, “Performance of the prototype Silicon Tracking System of the CBM experiment tested with heavy-ion beams at SIS18”, *Nuclear Instruments and Methods in Physics Research Section A, Part 2* 1082 (2026) 171059
14. E. H. Wang, M. Abushawish, J. H. Hamilton, A. Navin, S. Bhattacharyya, J. Dudouet, G. H. Bhat, J. A. Sheikh, S. Jehangir, S. Y. Wang, S. Sun, B. Qi, M. Rejmund, A. Lemasson, Y. H. Kim, E. Clément, F. Didierjean, R. Y. Dong, G. Duchêne, B. Jacquot, C. F. Jiao, Y. X. Luo, C. Michelagnoli, A. V. Ramayya, J. O. Rasmussen, C. Schmitt, O. Stezowski, W. Z. Xu, H. Zhang and S. J. Zhu, “First Observation of Multiphonon gamma-Vibrations in an Odd-Odd Nuclear System”, *Physical Review Letters* 136 (2026) 72501

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19. Krishna Debnath, Aniruddha Dey, P.K. Nayak, A.K. Mondal, R. Shil, A. Kundu, Biswajit Das, K. Mandal, S. Biswas, P. Dey, A. Bairagya, Vishal Malik, A. Sindhu, B. Mukherjee, D. C. Biswas, R. Palit, K. Banerjee, S. Mukhopadhyay, A. Chakraborty, “Exploring fission dynamics of ²³²Th(⁹Be,f) following prompt γ -ray spectroscopy”, *Physics Letters B* 874 (2026) 140249
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