

Publications in Journals – 2024

1. A. S. Roy, K. Banerjee, Pratap Roy, R. Shil, R. Ravishankar, R. Datta, A. Sen, S. Manna, T. K. Ghosh, G. Mukherjee, T. K. Rana, S. Kundu, S.S. Nayak, R. Pandey, D. Paul, K. Atreya, S. Basu, S. Mukhopadhyay, Deepak Pandit, M.S. Kulkarni, C. Bhattacharya, “Measurement of energy and directional distribution of neutron ambient dose equivalent for the ^7Li (p, n) ^7Be reaction”, *Applied Radiation and Isotopes* 204 (2024) 111140
2. Soumen Podder, Suman Pal, Debashree Sen, Gargi Chaudhuri, “Constraints on density dependent MIT bag model parameters for quark and hybrid stars”, *Nuclear Physics A* 1042 (2024) 122796
3. S Bhowmick, J Mukherjee, M Ghosal, C Nayak, B Satpati, G Pramanik, P. Karmakar, “Green to deep-red emissive carbon dot formation by C^+ ion implantation on nitrogen beam created self-masked nano-template”, *Nanotechnology* 35 (2024) 125301
4. S Moshat, D Sanyal, “Ab-initio calculation of magnetic properties of doped methylammonium lead chloride”, *Philosophical Magazine* 104 (2024) 406
5. M. Bhattacharjee, C. Giri, S. Masum, S. Hansda, S. Mitra, S. Haque, P. Chakraborty, S. Dechoudhury, A. Ray, M. Mondal, B. Nayan, V. Shukla, D. Sanyal, A. Bandyopadhyay, V. Naik, “Development of a gas jet coupled Electron Cyclotron Resonance ion source for Radioactive Ion Beam”, *Review of Scientific Instruments* 95 (2024) 23302
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7. S. Ghosh, P. Nath, S. Moshat and D. Sanyal, “Adsorption and Evolution of Hydrogen Molecules on Hexagonal Boron Nitride Monolayer: A Combined DFT and Kinetic Monte-Carlo Simulations Study”, *Physica Scripta* 99 (2024) 45913
8. Snigdha Ghosh, Nilanjan Chaudhuri, Sourav Sarkar, Pradip Roy, “Mass and spectral function of scalar and pseudoscalar mesons in a hot and chirally imbalanced medium using the two-flavor NJL model”, *Physical Review D* 109 (2024) 16021

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10. Pallavi Kalikotay, Snigdha Ghosh, Nilanjan Chaudhuri, Pradip Roy, Sourav Sarkar, “Electrical conductivity and shear viscosity of a pion gas in a thermo magnetic medium”, *The European Physical Journal A* 60 (2024) 71
11. Vinay Shukla and Ayan Ray, “Two-photon coherence in a DROP-FWM medium”, *Physica Scripta* 99 (2024) 45406
12. Samuel Ajayi, Vandana Tripathi, E. Rubino, Soumik Bhattacharya, L. T. Baby, R. S. Lubna, C. Benetti, Catur Wibisono, MacMillan B. Wheeler, S. L. Tabor, Yutaka Utsuno, Noritaka Shimizu, J. M. Allmond, “Observation of collective modes of excitations in ^{59}Co , ^{59}Ni , and ^{61}Co and the influence of the $g_{9/2}$ orbital”, *Physical Review C* 109 (2024) 14305
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21. STAR Collaboration, “Longitudinal and transverse spin transfer to Λ and $\bar{\Lambda}$ hyperons in polarized p+p collisions at $\sqrt{s}=200$ GeV”, *Physical Review D* 109 (2024) 12004
22. STAR Collaboration, “Observation of the electromagnetic field effect via charge-dependent directed flow in heavy-ion collisions at the Relativistic Heavy Ion Collider”, *Physical Review X* 14 (2024) 11028
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28. ALICE Collaboration, “Measurements of long-range two-particle correlation over a wide pseudorapidity range in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”, Journal of High Energy Physics 1 (2024) 199
29. ALICE Collaboration, “System size dependence of the hadronic rescattering effect at energies available at the CERN Large Hadron Collider”, Physical Review C 109 (2024) 14911
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