Publications in Journals – 2024

(Calendar Year – January to December)

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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

9. Devesh Kumar, Anandagopal Pal, Shefali Basak, Tumpa Bhattacharjee, S. S. Alam, L. Gerhard, L. Knafla, A. Esmaylzadeh, M. Ley, F. Dunkel, K. Schomaker, J.-M. Régis, J. Jolie, Y. H. Kim, and U. Köster, "Lifetime measurement for the 15/2−1 and 13/2−1 levels in 129Sn", Physical Review C 109 (2024) 24304

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 59Co, 59Ni, and 61Co and the influence of the g9/2 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

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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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31. ALICE Collaboration, “Measurements of inclusive J/ψ production at midrapidity and forward rapidity in Pb−Pb collisions at √sNN = 5.02 TeV”, Physics Letters B 849 (2024) 138451

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