

Publications in Journals – 2018

1. Balaram Dey, C. Ghosh, Deepak Pandit, A. K. Rhine Kumar, S. Pal, V. Nanal, R. G. Pillay, P. Arumugam, S. De, G. Gupta, H. Krishnamoorthy, E. T. Mirgule, Surajit Pal and P. C. Rout, “Study of the Jacobi shape transition in $A \approx 30$ nuclei”, *Physical Review C* 97 (2018) 14317
2. S. Mallik, G. Chaudhuri, and F. Gulminelli, “Dynamical and statistical bimodality in nuclear multi fragmentation”, *Physical Review C* 97 (2018) 24606
3. Ying-Xun Zhang, Yong-Jia Wang, Maria Colonna, Pawel Danielewicz, Akira Ono, Manyee Betty Tsang, Hermann Wolter, Jun Xu, Lie-Wen Chen, Dan Cozma, Zhao-Qing Feng, Subal Das Gupta, Natsumi Ikeno, Che-Ming Ko, Bao-An Li, Qing-Feng Li, Zhu-Xia Li, Swagata Mallik, Yasushi Nara, Tatsuhiko Ogawa, Akira Ohnishi, Dmytro Oliinychenko, Massimo Papa, Hannah Petersen, Jun Su, Taesoo Song, Janus Weil, Ning Wang, Feng-Shou Zhang and Zhen Zhang, “Comparison of heavy-ion transport simulations II: Collision integral in a box”, *Physical Review C* 97 (2018) 34625
4. S. Ghosh, S. Mitra and S. Sarkar, “Medium effects on the electrical conductivity of a hot pion gas”, *Nuclear Physics A* 969 (2018) 237
5. D. K. Srivastava, R. Chatterjee and M. G. Mustafa, “Initial temperature and extent of chemical equilibration of partons in Relativistic Collision of Heavy nuclei”, *Journal of Physics G* 45 (2018) 15103
6. P. Dasgupta, R. Chatterjee, S.K. Singh and J. Alam, “Effect of initial state nucleon shadowing on the elliptic flow of thermal photons”, *Physical Review C* 97 (2018) 34902
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8. M. Rahman. S. Ghosh, Sabyasachi Ghosh, S. Sarkar and J. Alam, “Contribution of Kaon component in viscosity and conductivity of hadronic medium”, *Physical Review C* 97 (2018) 35201

9. S. Ghosh, K. S. Gupta and S. C. L. Srivastava, "Entanglement dynamics following a sudden quench: An exact solution", *Europhysics Letters* 120 (2018) 5005
10. Argha Dutta, N. Gayathri, S. Neogy and P. Mukherjee, "Microstructural characterisation of proton irradiated niobium using X-ray diffraction technique", *Philosophical Magazine* 98 (2018) 1031
11. Argha Dutta, Kalipada Das, N. Gayathri, Ranjini Menon, P.Y. Nabhiraj, Paramita Mukherjee, "Effect of Ar⁹⁺ irradiation on Zr-1Nb-1Sn-0.1Fe alloy characterized by Grazing Incidence X-ray diffraction technique", *Radiation Physics and Chemistry* 144 (2018) 125
12. A. Saha, T. Bhattacharjee, D. Curien, I. Dedes, K. Mazurek, S. R. Banerjee, S. Rajbanshi, A. Bisoi, G. de Angelis, Soumik Bhattacharya, S. Bhattacharyya, S. Biswas, A. Chakraborty, S. Das Gupta, B. Dey, A. Goswami, D. Mondal, D. Pandit, R. Palit, T. Roy, R. P. Singh, M. Saha Sarkar, S. Saha and J. Sethi, "Excited negative parity bands in ¹⁶⁰Yb", *Physica Scripta* 93 (2018) 34001
13. J. Dudek, D. Curien, I. Dedes, K. Mazurek, S. Tagami, Y. R. Shimizu and T. Bhattacharjee, "Spectroscopic criteria for identification of nuclear tetrahedral and octahedral symmetries: Illustration on a rare earth nucleus", *Physical Review C* 97 (2018) 21302
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16. Dipak Bhowmik and Prasanta Karmakar, "Physicochemical variation of mica surface by low energy ion beam irradiation", *Nuclear Instruments and Methods in Physics Research Section B* 422 (2018) 41
17. H. Luitel, M. Chakrabarti, A. Sarkar, S. Dechoudhury, D. Bhowmick, V. Naik and Dirtha Sanyal, "Ab-initio calculation and experimental observation of room temperature ferromagnetism in 50keV nitrogen implanted rutile TiO₂", *Materials Research Express* 5 (2018) 26105

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19. Debojit Sarkar, "Energy independent scaling of the ridge and final state description of high multiplicity p + p collisions at $\sqrt{s}=7$ and 13 TeV", *Physical Review D* 97 (2018) 34036
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25. P. Das, S. Mallik and G. Chaudhuri, "First-order derivative of cluster size as a new signature of phase transition in heavy ion collisions at intermediate energies", *Physics Letters B* 783 (2018) 364
26. S. Das Gupta, S. Mallik and G. Chaudhuri, "Further studies of the multiplicity derivative in models of heavy ion collision at intermediate energies as a probe for phase transitions", *Physical Review C* 97 (2018) 44605
27. Dinesh K. Srivastava, Rupa Chatterjee, and Steffen A. Bass, "Transport dynamics of parton interactions in pp collisions at energies available at the CERN Large Hadron Collider", *Physical Review C* 97 (2018) 64910

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34. Golam Sarwar, Sushant K. Singh and Jan-e Alam, "Calculation of power spectrum of the little bangs", *International Journal of Modern Physics A* 33 (2018) 1850121
35. Mahfuzur Rahaman and Jan-e Alam, "Effects of causality on the fluidity and viscous horizon of quark-gluon plasma", *Physical Review C* 97 (2018) 54906
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