

7.2 Publications in Symposia, Conferences and Reports

1. Shreyasi Acharya, *et. al.*, "Heavy flavour decay electron yield in pp collisions at $\sqrt{s}=13$ TeV with ALICE at the LHC", DAE Symp. On Nucl. Phys. 62 (2017) 818-819.
2. S. S. Alam, D. Banerjee, T. Bhattacharjee, "Measurement of Electric Quadupole moment in neutron rich $^{131,132}\text{I}$ by Perturbed γ - γ Angular Correlation Spectroscopy and Theoretical Calculation", International Conference on Hyperfine Interactions and their Applications (HFI-2019).
3. S. S. Alam, D. Kumar, D. Banerjee, S. Dey Chaudhuri and T. Bhattacharjee, "Pulse processing electronics for γ - γ fast timing array at VECC", Proceedings of the DAE Symp. on Nucl. Phys. 63 (2018) 1212.
4. S. S. Alam, D. Banerjee, A. Saha, T. Bhattacharjee - "Lifetime measurement in neutron rich nuclei around ^{132}Sn " - DAE Symp. on Nucl. Phys. 62, 208(2017).
5. S. S. Alam, D. Banerjee, T. Bhattacharjee, A. Saha, S. W. Raja *et al.*, "Study of nuclear structure in ^{125}I ", Proceedings of the DAE Symp. on Nucl. Phys. 63 (2018) 356.
6. Sajad Ali, S. Rajbanshi, Abhijit Bisoi, Somnath Nag, S. Saha, J. Sethi, T. Trivedi, T. Bhattacharjee, S. Bhattacharyya, S. Chattopadhyay, G. Gangopadhyay, G. Mukherjee, R. Palit, R. Raut, M. Saha Sarkar, A. K. Singh, A. Goswami- "Assignment of multipolarity for $\Delta I=0\gamma$ transitions from Polarization measurements" - DAE Symp. on Nucl. Phys. 62, 196 (2017).
7. P. Bano, T.R. Routray, S.P. Pattnaik, D. Behera, D.N. Basu, Z. Naik, S. Pasayat, B. Behera, "Hyperon Puzzle with Simple Effective Interaction", DAE-BRNS Symp. on Nucl. Phys. 62 (2017) 708.
8. D. Banerjee, S. S. Alam, Sk Wasim Raja, A. Saha, T. Bhattacharjee - "Determination of Fission Product Yield for Lifetime and Quadrupole Moment Measurement" - DAE Symp. on Nucl. Phys. 62, 420 (2017).
9. D. Banerjee, S. K. Das, S. V. Thakare, "Study of Electric Quadrupole Perturbation at Multiple Probe Sites in a Single LIST Mode Measurement", NUCAR 2017.
10. D. Banerjee, S. Alam, T. Bhattacharjee, A. Saha, S. K. Das, "Measurement of Quadrupole Moment by Perturbed γ - γ Angular Correlation in n-rich Iodine nuclei", NUCAR-2017.
11. D. Banerjee, C. C. Dey, Sk. Wasim Raja, R. Sewak, S. V. Thakare, R. Acharya, P. K. Pujari, "Observation of orthorhombic phase in HfO_2 ", International Conference on Hyperfine Interactions and their Applications (HFI-2019).
12. D. Banerjee,¹Sk. Wasim Raja,¹D. Dutta,² P. K. Pujari², "TDPAC Study of Aquo-complex of Hafnium confined in Silica Nanopore", International Conference on Hyperfine Interactions and their Applications (HFI-2019).
13. C. Barai, S. Das, M. Mondal, R. Ganai, Z. Ahammed and S. Chattopadhyay, "Search for new gas mixture for Resistive Plate Chamber", DAE Symp. On Nucl. Phys. 62 (2017) 1100-1101.
14. C. Barai, *et. al.*, "Testing of a Resistive Plate Chamber using NINO-ASIC based Front End Electronics", DAE Symp. On Nucl. Phys. 62 (2017) 1024-1025.
15. Soumik Bhattacharya, S. Bhattacharyya, R. Banik, S. Das Gupta, S. S. Alam, A. Dhal, Md. A. Asgar, T. Roy, A. Saha, T. Bhattacharjee, S. Mukhopadhyay, D. Pandit, D. Mondal, S. Pal, S. R. Banerjee - "Deformed structure based on $n_{13/2}$ orbital in ^{199}Hg " - DAE Symp. on Nucl. Phys. 62, 118(2017).
16. D. Bhowmik and P. Karmakar, "Energy dependent ripple growth on Si (100) by N^+ ion beam irradiation", AIP Conference Proceedings 1832, 080019 (2017).
17. A. Chakraborty, A. Mitra, S. Lad, T. Upadhye, M. Tawate, S. Satamkar, R. Bhoite, S.S. Das, L. Barua, S. Chattopadhyay, S. Banerjee, "Radiochemical Studies and Preclinical Evaluation of ^{111}In -

- Pentetreotide using Indigenously Produced $^{111}\text{InCl}_3$ via $^{109}\text{Ag}(a,2n)$ Nuclear Reaction*". Presented in the 4th International Conference on Application of Radioisotopes and Energetic Beams in Sciences (ARCEBS 2018), 11-17 November 2018, Ffort Raichak, Kolkata. Proceedings Volume 5, Editor: Susanta Lahiri, SINP, Kolkata, pp.175-176.
18. P. S. Chakraborty *et al.* "Operational Activities of K130 Variable Energy Cyclotron" Indian Particle Accelerator Conference (InPAC), RRCAT, Indore, Jan 09-12, 2018.
 19. P. S. Chakraborty "Application of vacuum in accelerator", Workshop on Vacuum Technology and Its Industrial Applications, Feb 22 – 28, 2018 at GNIT, Kolkata
 20. S. Chattopadhyay, S. Saha Das, Madhusmita, U. Kumar, L.Barua, A. K. Pal, Md. N. Alam, A.K. Hudait, S. Banerjee, "A new, portable solvent extraction based $^{99}\text{Mo}/^{99m}\text{Tc}$ generator utilizing (n,γ) ^{99}Mo in sodium chloride solution for hospital radiopharmacy". Presented at the 49th Annual Conference of Society of Nuclear Medicine, India (SNMICON-2017), 14-17 December, 2017. Institute of Nuclear Medicine and Allied Sciences (INMAS). Delhi, India
 21. Sankha Chattopadhyay, Sujata Saha Das, Madhusmita, Md. Nayer Alam, Sharmila Banerjee, "Simulation Study on Purification of Spent ^{100}Mo and Tc-99m from Nb, Zr, Y and Ru Traces". Presented in the 4th International Conference on Application of Radioisotopes and Energetic Beams in Sciences(ARCEBS 2018), 11-17 November 2018, Ffort Raichak, Kolkata. Proceedings Volume 5, Editor: Susanta Lahiri, SINP, Kolkata, pp.181-182.
 22. Arindam Chatterjee & Arkaprabha Sau, "Global and Indian Scenario of Fatal and Non-fatal Occupational Injuries: A secondary data analysis", International Vision Zero Conference on OSH held at IIT Bombay from February 18 – 20, 2019.
 23. G. Chaudhuri, S. Mallik and S. Das Gupta, "Study of multiplicity derivative as a new signature of nuclear liquid gas phase transition from lattice gas model", Proceedings of the DAE-BRNS Symposium on Nuclear Physics **63**, 458 (2018)
 24. Nilanjan Chaudhuri, Pradip Roy and Sourav Sarkar, "Mesonic excitations in a hot and magnetized quark matter in the NJL model", DAE Symp. on Nucl. Phys. **63** (2018).
 25. Nilanjan Chaudhuri, Snigdha Ghosh, Sourav Sarkar, Pradip Roy, "Propagation of scalar meson in external magnetic field", DAE Internal Report (VECC/IR/2018/03)
 26. Z. Citron *et al.*, "Future physics opportunities for high-density QCD at the LHC with heavy-ion and proton beams", arXiv:1812.06772 [hep-ph]. Proceedings of workshop on the Physics of HL-LHC, and Perspectives at HE-LHC. 18-20 Jun 2018, Geneva, Switzerland.
 27. M. K. Das, Madhusmita, S. Chattopadhyay, S. S. Das, Md. N. Alam, L. Barua, A. De, U. Kumar, S. Datta, "Cyclotron production of ^{99m}Tc and development of a new method of separation of $^{99m}\text{TcO}_4^-$ from the irradiated molybdenum target", Cyclotron Based Production of Technetium-99m ; IAEA Radioisotopes and Radiopharmaceuticals Reports No. 2; Companion CD ROM. English STI/PUB/1743; (ISBN:978-92-0-102916-4) Publisher : International Atomic Energy Agency (IAEA), Date : June, 2017.
 28. P. Das, S. Mallik, G. Chaudhuri and S. Das Gupta, "Multiplicity derivative: A new signature of phase transition in nuclear multifragmentation", Proceedings of the DAE-BRNS Symposium on Nuclear Physics **62**, 406 (2017)
 29. P. Das, S. Mallik and G. Chaudhuri, "Nuclear multifragmentation: Canonical grand canonical ensemble transformation", Proceedings of the DAE-BRNS Symposium on Nuclear Physics **62**, 586 (2017).
 30. P. Das, S. Mallik and G. Chaudhuri, "Nuclear phase transition: new observables representing the signatures", Proceedings of the DAE-BRNS Symposium on Nuclear Physics **63**, 692 (2018)

31. S. Das, C.Barai, M.Mondal, R.Ganai, Z.Ahammed and S.Chattopadhyay, “*Development of 6-gap bakelite Multi-gap resistive plate chamber*”, DAE Symp. On Nucl. Phys. 62 (2017) 1096-1097.
32. Sangeeta Das, Sathi Sharma, S. S. Alam, Arkabrata Gupta, AnikAdhikari, Ananya Das, A. Saha, S. K. Dey, Dibyadyuti Pramanik, AbhijitBisoi, T. Bhattacharjee, C. C. Dey, S. Sarkar, M. Saha Sarkar, “*Isomers in $^{117,118}\text{Sn}$ and. role of neutron $1h_{11/2}$ orbit*” - DAE Symp. on Nucl. Phys. 62, 84(2017).
33. Sujata Saha Das, Sankha Chattopadhyay, Luna Barua, Md. Nayer Alam, Madhusmita, Asit K. Pal, Umesh Kumar, Arup K. Hudait, Sharmila Banerjee, “*A New Sephadex Based Separation of ^{43}Sc from Alpha Irradiated $^{nat}\text{CaCO}_3$ Target*”. Presented in the 4th International Conference on Application of RadioTracers and Energetic Beams in Sciences (ARCEBS 2018), 11-17 November 2018, Ffort Raichak, Kolkata. Proceedings Volume 5, Editor: Susanta Lahiri, SINP, Kolkata, pp.179-180.
34. S. Dasgupta, J. Datta and. K. K. Swain, “*Determination of Boron in In-house Graphite Reference Material by Instrumental Charged Particle Activation Analysis*” The Fourth International Conference on Application of RadioTracers and Energetic Beams in Sciences (ARCEBS-2018) November 11-17, 2018, Ffort Raichak, Kolkata, India pp 165-166.
35. Pingal Dasgupta, Somnath De, Rupa Chatterjee, Dinesh K. Srivastava, “*Direct photon production in Pb+Pb collisions from $\sqrt{s_{NN}}=2.76\text{ TeV}$ to 39 TeV* ”, DAE Symp. Nucl. Phys. 62 (2017) 930-931.
36. Pingal Dasgupta, Rupa Chatterjee, Sushant K. Singh, Jan-e Alam, “*Thermal photon production from shadowed Glauber model initial condition*”, DAE Symp. Nucl. Phys. 62 (2017) 836-837.
37. S. Dasgupta, J. Datta, “*The study of Excitation functions of heavy ion induced nuclear reactions between 20Ne beam and natural Copper for analytical application*” Published in the proceedings of Fourteenth Biennial DAE-BRNS Symposium on Nuclear and Radiochemistry (NUCAR-2019) held at Mumbai, India, during Jan 15-19, 2019 p 226.
38. J Datta and S. Dasgupta, “*The development of analytical methodology for the determination of boron by heavy ion activation analysis*”, Published in the proceedings of Fourteenth Biennial DAE-BRNS Symposium on Nuclear and Radiochemistry (NUCAR-2019) held at Mumbai, India, during Jan 15-19, 2019 p 227.
39. J. Datta, S. Dasgupta, M. Ghosh, “*Determination of Cu, Cr and Zr in copper alloy by instrumental charged particle activation analysis*”, DAE-BRNS Symposium on Nuclear and Radiochemistry (NUCAR 2017), held on Feb. 6-10, 2017 in KIIT university, Bhubaneswar, Odisha, India (2017).
40. S. Dasgupta and J. Datta, “*Determination of relative concentration of Lithium and Titanium in Lithium titanate and Lithium and Niobium in Lithium niobate by Charged Particle Activation Analysis*”, DAE-BRNS Symposium on Nuclear and Radiochemistry (NUCAR 2017), held on Feb. 6-10, 2017 in KIIT university, Bhubaneswar, Odisha, India (2017).
41. A. De, Debakinandan Majee, Sushovan Paul, S. R. Banerjee, Surajit Pal, S. Mukhopadhyay, Deepak Pandit, Debasish Mondal, Srijit Bhattacharya, Balaram Dey, “*Search for three-body force effects in the alpha-induced break-up of deuterons at low energies*”, DAE-BRNS Symp on NP, Vol 62 (2017) 562 .
42. Balaram Dey, C Ghosh, Deepak Pandit, A K Rhine Kumar, S Pal, V Nanal, R G Pillay, P Arumugam, S De, H Krishnamoorthy, G Gupta, E T Mirgule, Surajit Pal, P C Rout, “*Anomaly in the giant dipole resonance spectrum of ^{28}Si* ”, DAE-BRNS Symp on NP, Vol 62 (2017) 446 .
43. S. Dey Chaudhuri, D. Banerjee, T. Bhattacharjee, R. Acharya , P.K Pujari, “*Characterisation of $\text{LaBr}_3:\text{Ce}$ detectors coupled with Hamamatsu make R2083 PM Tube*”, DAE-BRNS Symposium on Nuclear and Radiochemistry (NUCAR-2019).
44. Partha Dhara,, P.S. Chakraborty, .., Amitava Roy, “*Development of ELOGS facility for the Room Temperature Cyclotron at VECC*”, Indian Particle Accelerator Conference (InPAC), RRCAT, Indore, Jan 09-12, 2018

45. R. Ganai, S. Mehta, M. Shiroya, M. Mondal, Z. Ahammed and Subhasis Chattopadhyay, “*A Proof-of-principle for TOF-PET Imaging*”, Springer Proceedings in Physics 203 (2018), DOI 10.1007/978-3-319-73171-1 27
46. Rajesh Ganai, M. Mondal, Z. Ahammed and Subhasis Chattopadhyay. “*Development of 6-gap Bakelite Multigap Resistive Plate Chamber*” Springer Proceedings in Physics 203, Chapter - 28
47. Rajesh Ganai, M. Shiroya, Z. Ahammed and Subhasis Chattopadhyay. “*Timing Studies of a Large Size Oilfree Bakelite Resistive Plate Chamber*”, Springer Proceedings in Physics 203, Chapter-154
48. Ghosh Jana Kousiki, Mishra S. K, Ravishankar R, Bandyopadhyay Tapas, “*Streaming radiation through an open duct on roof of K-130 cyclotron, VECC: A preliminary study*”, Indian Particle Accelerator Conference (InPAC-2018), Raja Ramanna Centre for Advanced Technology Indore-452013, M P, India, January 9-12, 2018.
49. Ghosh Jana Kousiki, Choudhury Dibyasree, Lahiri Susanta, “*Separation of no-carrier-added ^{48}V from ^{16}O irradiated chloride target*”, Emerging Trends in Separation Science and Technology (SESTEC-2018), BITS Pilani, K.K Birla Goa campus, Zuarinagar, Goa, India-403726, May 23-26, 2018.
50. Ghosh Jana Kousiki, Choudhury Dibyasree, Lahiri Susanta, “*Production and Separation of No-Carrier Added $^{43,44,44}\text{mSc}$ from ^{12}C Irradiated BaCl_2 Target*”, Application of Radiotracer and Energetic Beam in Science (ARCEBS-2018), Ffort Raichak, Kolkata, West Bengal, India-721667, November 11-17, 2018.
51. Arushi Jain, Vikas Singhal, “*Investigations of High Throughput Computing for Event Selection, Process of MuCh@CBM*”, Proceedings, RAITEA 2019.
52. Pallavi Kalikotay, Nilanjan Chaudhuri, Snigdha Ghosh, Sourav Sarkar, “*Medium effects on the relaxation times of hadrons in a hadronic gas mixture*”, DAE Internal Report (VECC/IR/2018/02)
53. Pallavi Kalikotay, Nilanjan Chaudhuri, Snigdha Ghosh and Sourav Sarkar, “*Medium effects on Relaxation times and Transport coefficients of Pion-Kaon-Nucleon system*”, DAE Symp. on Nucl. Phys. 63 (2018).
54. Shuaib Ahmad Khan and Subhasis Chattopadhyay, “*Development status of Common Readout Unit at India for the ALICE detector at CERN*”, Proceedings of the DAE Symp. on Nucl. Phys. 63 (2018)
55. Ajit Kumar, Anand Kumar Dubey, Jogender Saini, Vikas Singhal, Vinod Negi, Swagata Mandal, Sidharth Kumar Prasad, Dipanjan Nag, Chandra Sekher Gosh, Subhasis Chattopadhyay, “*Testing of large size GEM detector with Pb+Pb collision at CERN-SPS*”, DAE Symp. On Nucl. Phy. 62 (2017) 1006-1007.
56. Ajit Kumar, Diptendu Sil, Anand Kumar Dubey, “*A lab setup for efficiency measurement of triple GEM detector using beta source*”, DAE Symp. On Nucl. Phy. 62 (2017) 1104-1105.
57. Ajit Kumar, Anand Kumar Dubey, Subhasis Chattopadhyay, “*Study of basic characteristics of triple GEM detector*”, DAE Symp. On Nucl. Phy. 62 (2017) 1116-1117.
58. Ajit Kumar, Anand Kumar Dubey, Chandrasekhar Ghosh, Jogender Saini, Vinod Singh Negi, Sidharth Kumar Prasad, Subhasis Chattopadhyay “*Real size triple GEM detector for mCBM experiment*”, Proceedings of the DAE Symp. on Nucl. Phys. (2018) , 1216-17
59. Ajit Kumar, Anand Kumar Dubey, Chandrasekhar Ghosh, Jogender Saini, Vinod Singh Negi, Sidharth Kumar Prasad, Subhasis Chattopadhyay, “*Real size triple GEM detector for mCBM experiment*”, Proceedings of the DAE Symp. on Nucl. Phys. 62 (2018), G91, 1216
60. Sanjib Muhuri, Sinjini Chandra, Sourav Mukhopadhyay, Jogender Saini, V. B. Chandratre, R. N. Singaraju, T. K. Nayak, Ton van den Brink, S. Chattopadhyay, “*Test and characterization of a prototype for Forward Calorimeter (FOCAL) at CERN SPS beamline*”, VECC/2018/01

61. K. Madhuri, T.R. Routray, D.N. Basu, S.P. Pattnaik, “*Influence of transition density calculated by thermodynamical method and dynamical method on crustal fraction of moment of inertia of neutron star using $R\sigma$ and $G\sigma$ Skyrme interaction*”, DAE-BRNS Symp. on Nucl. Phys. 63 (2018) 778.
62. K. Madhuri, D.N. Basu, T.R. Routray, S.P. Pattnaik, “*Inner Crust of Neutron Stars with Mass-Fitted Skyrme Interaction*”, DAE-BRNS Symp. on Nucl. Phys. 62 (2017) 694.
63. S. Mallik, G. Chaudhuri and F. Gulminelli, “*Dynamical and statistical bimodality in nuclear fragmentation reaction at intermediate energies*”, Proceedings of the DAE-BRNS Symposium on Nuclear Physics 63, 456 (2018)
64. G Mandal, D Jha, AK Himanshu, P Mukherjee, NK Das, BK Singh, Uday Kumar, T. P. Sinha, “*Optical and electronic structure studies of half metallic in Sr_2CoWO_6 double perovskite*”, AIP Conference Proceedings 1832 (2017) 140039
65. M. Mondal, R. Ganai, C. Barai, J. Saini, Z. Ahammed and S. Chattopadhyay. “*Testing of a Resistive Plate Chamber using NINO-ASIC based Front End Electronics*” Proceedings of the DAE Symp. on Nucl. Phys. 62 (2017) Thapar University Patiala, India.
66. Debasish Mondal, Deepak Pandit, S. Mukhopadhyay, Surajit Pal, Balaram Dey, Srijit Bhattacharya, A. De, Soumik Bhattacharya, S. Bhattacharyya, Pratap Roy, K. Banerjee, S. R. Banerjee, “*Fluidity of finite nuclear matter - An experimental endeavour*”, DAE-BRNS Symp on NP, Vol 62 (2017) 49 .
67. Sanjib Muhuri, *et. al.*, “*Test of prototype electromagnetic calorimeter (FOCAL) using large dynamic range ASIC ANUINDRA at CERN-SPS*”, DAE Symp. On Nucl. Phy. 62 (2017) 872-873.
68. P Y Nabhiraj,....., P S Chakraborty and Arup Bandyopadhyay, “*Installation, Commissioning of 14 GHz ECR ion source and injection line for K-130 cyclotron*” Indian Particle Accelerator Conference (InPAC), RRCAT, Indore, Jan 09-12, 2018
69. Ekata Nandy and Subhasis Chattopadhyay, “*Strangeness Enhancement at FAIR*”, Proceedings of the DAE Symp. on Nucl. Phys. 63 (2018),1018-1019.
70. Ekata Nandy, Partha Pratim Bhaduri and Subhasis Chattopadhyay, “*A systematic investigation of di-muon combinatorial background for ω in the CBM experiment at FAIR*”, Proceedings of the DAE Symp. on Nucl. Phys. 63 (2018) , 1016-1017
71. Ekata Nandy, Partha Pratim Bhaduri and Subhasis Chattopadhyay, “*Investigation on the effect of 2nd MUCH station with reduced size*”, CBM Progress Report 2017, 70-71.
72. Ekata Nandy, Zubayer Ahmed, Omveer Singh, and Subhasis Chattopadhyay, “*Implementation of RPC geometry for the 3rd and 4th station of CBM-MUCH* ”, CBM Progress Report 2017, 72.
73. Ekata Nandy, Subhasis Chattopadhyay and Pratha Pratim Bhaduri “*Feasibility study of using RPC in the muon detection system of the CBM experiment at FAIR*” by at DAE Symp.Nucl.Phys. 62 (2017) 880-881.
74. Ekata Nandy, Pratha Pratim Bhaduri and Subhasis Chattopadhyay “*Hadronic Cocktail Simulation with new CBM Muon Chamber at FAIR* ” at DAE Symp.Nucl.Phys. 62 (2017) 890-891.
75. Ekata Nandy and Subhasis Chattopadhyay, “*Detection of Low Mass Vector Mesons in the Muon Detector of CBM Experiment*”, Springer Proc.Phys. 203 (2018) 393-396.
76. Ekata Nandy and Subhasis Chattopadhyay, “*Performance Study of Muon Detector with CBM experiment at FAIR* ”, Springer Proc.Phys. 201 (2018) 157-165.
77. S. Nandi, G. Mukherjee, H. Pai, T. Roy, Md. A. Asgar, A. Dhal, R. Banik, S. Bhattacharya, A. Saha, S.S. Alam, S. Bhattacharyya, C. Bhattacharya, P. Roy, T. K. Ghosh, S. Kundu, K. Banerjee, T. K. Rana, R. Pandey, S. Manna, A. Sen, S. Pal, S. Mukhopadhyay, D. Pandit, D. Mondal, T. Bhattacharjee, A. Dey, J.K. Meena, A. K. Saha, J. k. Sahoo, R. Mandal Saha, A. Choudhury, S.R. Banerjee- “*High spin structure and neutron alignment in ^{197}Tl* ”- DAE Symp. on Nucl. Phys. 62, 80 (2017).

78. Deepak Pandit, Srijit Bhattacharya, Debasish Mondal, Pratap Roy, Kaushik Banerjee, S Mukhopadhyay, Surajit Pal, A De, Balaram Dey, S R Banerjee “*Confirmation of collective enhancement and its fadeout in the NLD*”, DAE-BRNS Symp on NP, Vol 62 (2017) 62 .
79. S. Pathak, G. Mandal, P. Das, “*Study of Hafnium Oxide (HfO₂) structure*”, DAE Solid State Physics Symposium (DAE SSPS-2017) abstract book, poster no A-168, page 51.
80. S. Pathak, G. Mandal, P. Das, “*Structural Change oh Hafnia (HfO₂) under pressure*”, European XFEL-DESY Joint Users’ Meeting 2018, Deutsches Elektronen-Synchrotron (DESY), Hamburg, Germany, Abstract book, poster number 283
81. S.P. Pattnaik, T.R. Routray, X. Vinas, D.N. Basu, K. Madhuri, B. Behera, “*Study of the Effect of the Slope Parameter on the R-mode Instability using Simple Effective Interaction*”, DAE-BRNS Symp. on Nucl. Phys. 62 (2017) 696.
82. Ram Kumar Paul, Partha Dhara, Pintu Maity, Pranab Singha Roy and Amitava Roy, “*Heterogeneous data acquisition system & time correlation,*” 2017 8th International Conference on Computing, Communication and Networking Technologies (ICCCNT), Delhi, 2017, pp. 1-3.
83. Sk Wasim Raja, D. Banerjee, S. S. Alam , T. Bhattacharjee, R. Acharya, P. K. Pujari, “*Spectroscopy of long lived fission fragments in A ~100-140 region*”, Proceedings of the DAE Symp. on Nucl. Phys. 63 (2018) 290.
84. Sk Wasim Raja, D. Banerjee, P. K. Pujari, “*Hyperfine study of dopant induced diffusion of probe atom from anatase to rutile phase in TiO₂*”, DAE-BRNS Symposium on Nuclear and Radiochemistry (NUCAR-2019).
85. A. Ray, P. Das, A. K. Sikdar, “*Electron Capture Nuclear Decay Rate under Compression*”, Proc. of DAE-BRNS Symposium on Nuclear Physics, 62, 978 (2017).
86. Sudhir P. Rode, et. al., “*Differential elliptic flow of charged hadrons at FAIR SIS100*”, DAE Symp. On Nucl. Phy. 62 (2017) 878-879.
87. Ray, P. Das, A. K. Sikdar, S. Pathak and J. Datta, “*Decay Rate of ⁷Be Under Compression*”, Proceedings of the DAE Symp. on Nucl. Phys. 63 (2018) 774-775, DAE International Symposium on Nuclear Physics, December 10-14, 2018, Mumbai 400094, Maharashtra, India
88. Prithwijita Ray, S. Rajbanshi, S. Ali, Abhijit Bisoi, Somnath Nag, S. Saha, J. Sethi, T. Trivedi, T. Bhattacharjee, S. Bhattacharyya, S. Chattopadhyay, G. Gangopadhyay, G. Mukherjee, R. Palit, R. Raut, M. Saha Sarkar, A. K. Singh, A. Goswami- “*Lifetime measurement for a dipole band in ¹⁴²Eu*” - DAE Symp. on Nucl. Phys. 62, 272 (2017).
89. Ashif Reza, Anuraag Misra, Parnika Das, Samridhi Shukla, “*Design of a low noise amplifier with inductive peaking technique*”, 2017 IEEE Applied Electromagnetics Conference (AEMC) 19-22 December 2017
90. S. Roy, Tapatee Kundu Roy, D. Das, “*Microstructure and Current-Voltage Characteristics of Erbium Oxide Doped Multicomponent Zinc Oxide Varistors*”, 7th National Conference on Processing and Characterization of Materials, NIT Rourkela, December 8-9, 2017.
91. Sujan Kumar Roy, Somnath Mukhopadhyay, Joydev Lahiri, D.N. Basu, “*Relativistic Thomas-Fermi EoS of magnetic White Dwarfs*”, DAE-BRNS Symp. on Nucl. Phys. 63 (2018) 760.
92. T. R. Routray, S. P. Pattnaik, X. Vinas, D. N. Basu, M. Centelles, K. Madhuri, B. Behera, “*Intensity of gravitational waves emitted by pulsar neutron stars due to r-mode oscillation*”, DAE-BRNS Symp. on Nucl. Phys. 63 (2018) 776.
93. Samrangy Sadhu, et. al., “*Hydro-like features in high-multiplicity pp events at the LHC energies contrasted with EPOS3 hydrodynamic model*”, DAE Symp. On Nucl. Phy. 62 (2017) 868-869.

94. Nachiketa Sarkar, *et. al.*, “*Thermalized hadron gas of different sizes approach common mean free path at high temperature*”, DAE Symp. On Nucl. Phys. 62 (2017) 870-871.
95. Raman Sehgal, S. T. Sehgal, Mausumi Sengupta Mitra, Dhruv Mulmule, Tushar Roy, L. M. Pant, “*PoCA Point Cloud Filtration algorithm for Muon Tomography*”, Proceedings of the DAE Symp. on Nucl. Phys. 63 (2018).
96. Sudeshna Seth, Sumit Som, Surajit Ghosh, Pranab Bhattacharyya, Aditya Mandal, Sundeep Ghosh, Anjan Dutta Gupta, P. Prakash, Kishore Kumar Mistri, Thomas H. Nicol, Allan Rowe, Anna Grassellino, Timergali N. Khabiboulline, Dmitri A. Sergatskov, Oleksandr Stepanovych Melnychuk, Shekhar Mishra, Michael Kelly, Thomas Reid “*Test Result Of 650 MHz, Beta=0.61, Single Cell Niobium Cavity*”, SRF2017, LANZHOU, CHINA, Publication at SRF2017 conference.
97. Sathi Sharma, Sangeeta Das, S. S. Alam, Arkabrata Gupta, Anik Adhikari, Ananya Das, A. Saha, Dibyadyuti Pramanik, Abhijit Bisoi, Indrani Ray, T. Bhattacharjee, S. Sarkar, M. Saha Sarkar- “*Decay spectroscopy of ^{118m}Sb* ”- DAE Symp. on Nucl. Phys. 62, 200(2017).
98. Ashik Iqbal Sheikh, Zubayer Ahammed and Munshi G. Mustafa,, “*Heavy quarks and chromo-electromagnetic field fluctuations: The Drag, Diffusion coefficient and Nuclear modification factor*”, Journal of Physics: Conf. Series 1137, 012049 (2019).
99. Ashik Iqbal Sheikh, Zubayer Ahammed and Munshi G. Mustafa, “*The nuclear modification factor of D and B mesons in a field fluctuating quark-gluon plasma at LHC energies*”, PoS(BEAUTY2018) 062, (2018).
100. Ashik Iqbal Sheikh, *et. al.*, “*Effect of initial state beam parton energy loss in Drell Yan production for proton-nucleus collisions*”, DAE Symp. On Nucl. Phys. 62 (2017) 878-879.
101. A. K. Sikdar, A. Reza, A. Ray, A. Misra, Subrata Saha, A. Dutta Gupta, K. Banerjee, B. Dam, P. Das, “*Electron Trapping in VECC Penning Trap at 300K and 77K*”, Proc. of DAE-BRNS Symposium on Nuclear Physics, 62, 992 (2017).
102. A. K. Sikdar, J. Nandi, A. Ray, P. Das, “*Axial oscillations of electron cloud in Penning Trap*”, Proc. of DAE-BRNS Symposium on Nuclear Physics, 62, 1040 (2017).
103. Vivek Kumar Singh, D. K. Mishra and Zubayer Ahammed; “*Charge fluctuations of identified particles at RHIC energies*”, Proceedings of the DAE Symp. on Nucl. Phys. 63 (2018).
104. Vinay Singh, Debasis Atta, Md. A. Khan, D. N. Basu, “*Deep sub-barrier fusion of $p+{}^6\text{Li}$, $p+D$ and S -function*”, DAE-BRNS Symp. on Nucl. Phys. 63 (2018) 768.
105. Vinay Singh, Joydev Lahiri, Debasis Bhowmick, D.N. Basu “*Big-Bang Nucleosynthesis and Lithium Abundance*”, DAE-BRNS Symp. on Nucl. Phys. 62 (2017) 702.
106. Omveer Singh, Partha P. Bhaduri, E. Nandy, S. Chattopadhyay, and N. Ahmad, “*First results of mMuCh simulation for the mini-CBM full system setup at SIS18* ” CBM Progress Report 2017, 74.
107. K. Srihari, Mausumi Sengupta Mitra, R. Ravishankar Tapas Bandyopadhyay, M. K. Das, “*Mitigation of waste generated from radiopharmaceutical generation facility of 30mev medical cyclotron*”, (INPAC 2018), Raja Ramanna Centre for Advanced Technology Indore - 452013, M P, India, January 9-12, 2018.



7.3 Thesis

1. Sumit Basu, “*Event-by-Event Temperature Fluctuation In Heavy Ion Collisions at Large Hadron Collider energies in ALICE Experiment.*”, Doctor of Philosophy in Science, 2017, Homi Bhabha National Institute (HBNI).
Supervisor: Dr. Tapak Kumar Nayak, VECC, Kolkata
2. Arindam Kumar Sikdar, “*Studies on fission time anomaly in fissile and very heavy nuclei.*” Doctor of Philosophy in Science, 2017, Homi Bhabha National Institute (HBNI).
Supervisor: Dr. Amlan Ray, VECC, Kolkata
3. Tanmoy Roy, “*Study of High Spin States In Nuclei Near $Z=82$.*” Doctor of Philosophy in Science, 2017, Homi Bhabha National Institute (HBNI).
Supervisor: Dr. Gopal Mukherjee, VECC, Kolkata
4. Rajesh Ganai, “*Probing the Earth Matter Density Through INO-ICAL and Related Detector Development*”, Doctor of Philosophy in Science, 2017, Homi Bhabha National Institute (HBNI).
Supervisor: Dr. Subhasis Chattopadhyay, VECC, Kolkata
5. Arunabha Saha, “*Study of Nuclear Structure around $N=90$* ”, Doctor of Philosophy in Science, 2018, Homi Bhabha National Institute (HBNI).
Supervisor: Dr. S. R. Banerjee, VECC, Kolkata
Co-Supervisor: Dr. Tumpa Bhattacharya, VECC, Kolkata
6. Debasish Mondal, “*Study of Nuclear Viscosity and Isospin Mixing Utilizing Isovector Giant Dipole Resonance*”, Doctor of Philosophy in Science, 2018, Homi Bhabha National Institute (HBNI).
Supervisor: Dr. S. R. Banerjee, VECC, Kolkata
7. Debasis Atta, “*Study of the properties of compact stars and nuclear reactions of Astrophysical importance*”, Doctor of Philosophy in Science, 2018, Homi Bhabha National Institute (HBNI).
Supervisor: Dr. D. N. Basu, VECC, Kolkata
8. Snigdha Ghosh, “*Spectral properties of hadrons in a magnetized medium*”, Doctor of Philosophy in Science, 2019, Homi Bhabha National Institute (HBNI).
Supervisor: Dr. Sourav Sarkar, VECC, Kolkata
9. Swagata Mandal, “*Development of FPGA based Error Resilient Self-Triggered Readout Chain for Muon Chamber (MUCH) Detector of CBM Experiment*”, 2018, Doctor of Philosophy in Science, Homi Bhabha National Institute (HBNI).
Supervisor: Dr. Subhasish Chattopadhyay, VECC, Kolkata
10. Jubin Mitra, “*Electronics system for the ALICE high rate detector upgrade*”, 2018, Doctor of Philosophy in Science, Homi Bhabha National Institute (HBNI),
Supervisor: Dr. Tapan K. Nayak, VECC, Kolkata
11. Noor Alam, “*Charge correlation using balance functions of identified particles in heavy-ion collisions at LHC energy*”, 2018, Doctor of Philosophy in Science, Homi Bhabha National Institute (HBNI).
Supervisor: Dr. Subhasish Chattopadhyay, VECC, Kolkata
12. Somnath Kar, “*Measurement of angular correlations between D^0 mesons and charged particles in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV with ALICE at the LHC*”, 2018, Doctor of Philosophy in Science, Homi Bhabha National Institute (HBNI).
Supervisor: Dr. Premomoy Ghosh, VECC, Kolkata
13. Debojit Sarkar, “*Two particle correlations with identified trigger particles in pPb and pp collisions at LHC energy*”, 2018, Doctor of Philosophy in Science, Homi Bhabha National Institute (HBNI).
Supervisor: Dr. Subhasish Chattopadhyay, VECC, Kolkata

7.4 Books & Patents

1. M. Haji-Saeid, A.H. Al-Rayyes, F. Al-Rumayan, A. Avetisyan, S. Chattopadhyay, J. Esposito, Y. Fujibayashi, S. E. Lapi, S.A. McQuarrie, R. Mikołajczak, T. J. Ruth, A. Salvini. S. Takacs (Contributors to Drafting and Review) *IAEA Radioisotopes and Radiopharmaceuticals Reports No. 1: Cyclotron based Production of Technetium-99m*; Publisher: International Atomic Energy Agency, Vienna: ISBN:978-92-0-102916-4; ISSN 2413–9556 (2017).

