

International Conference on Nuclear Physics and Applications (ICNPA-2024)

University of Delhi, Delhi – 110007

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List of abstracts selected for Contributory Talk

S.N.	Name of Speaker	Title of Abstract	Talk ID
1	Unnati Gupta	Nuclear Instrumentation at Amity Institute of Nuclear Science & Technology for practical applications of nuclear sciences	CANT-01
2	Abhishek Yadav	Development of a Detection System for Low-Level Environmental Radioactivity in Soil and Building Materials	CANT-02
3	Atul Ravikant Chaturvedi	Calculating the theoretical cross sections for the production cross sections of ^{43}Sc with a deuteron beam for applications in nuclear medicine.	CANT-03
4	Gaurav Rajak	Green Synthesis of Transparent and Flexible Bismuth Based Metal Polymer Composites for X-ray Protection	CANT-04
5	Megha Jakhar	To assess the radiological risk assessment for the soil and wheat samples collected from agricultural fields near coal-fired Thermal Power Plant	CANT-05
6	Diksha Kumari Sharma	Analysis of Total Phenolic Content of Centella asiatica using MAE Technique	CANT-06
7	DEVENDRA RAJ UPADHYAY	Attenuation Properties of Lead Free Barium Phosphate Glasses against Photon, Neutron and Charge Particles	CANT-07
8	Abhijit Baishya	Upper limit of exotic decay modes of Hoyle state	CNA-01
9	Shreyas Arun Shinde	Calculating the alpha induced reaction cross sections for the $^{162}\text{Er}(n, \gamma)$ at center of mass energies ranging from 16.06MeV to 11.21MeV	CNA-02
10	Sayan Samanta	The $^7\text{Be}(d, \alpha)^5\text{Li}(p, \alpha)$ and $^7\text{Be}(d, p)^8\text{Be}(p, ^7\text{Li})$ reactions at 5 MeV/u	CNA-03

11	Jashanpreet Singh Dingra	Correlation of Active Galactic Nuclei (AGN) Host Galaxies Black Hole with Velocity Dispersion (?) from SDSS Dr 18	CNA-04
12	Dalvi Reuben-Xavier Manish	Theoretical calculations for the ${}^2\text{H}(\alpha,\gamma){}^6\text{Li}$ reaction producing ${}^6\text{Li}$ in standard Big Bang nucleosynthesis	CNA-05
13	Tanmoy Ghosh	Study of Nuclear Physics Inputs to Astrophysics	CNA-06
14	Pralay Kumar Das	Development of prototype Time Projection Chamber for alpha particle tracking	CNI-01
15	Tinku Sinha Sarkar	The study of characteristics of indigenous Thick gas Electron Multiplier	CNI-02
16	Priyanka	Generation of Simulated signal database for segmented Planar HPGe Detector	CNI-03
17	Dhananjaya Sahoo	Performance study of 2 in. \times 2 in. LaBr ₃ (Ce) detectors for timing spectroscopy	CNI-04
18	Rakesh Kumar	Study of the Response of Silicon Ion Implanted Alpha Particle Detector using GEANT4 Monte Carlo Simulations and its Application in Measurement of Environmental Radioactivity.	CNI-05
19	Mohammad Shuaib	Analysis of Alpha-Induced Reactions on ${}^{209}\text{Bi}$ and the Production of Astatine Isotopes	CNR-01
20	Vishal Srivastava	Nucleon Transfer Reactions: Key to Understanding Nuclear Structure	CNR-02
21	Neelam J Upadhyay	The Role of Nonlocal Potentials in Coulomb-Nuclear Interference	CNR-03
22	Sarla Rathi	Large alpha production for ${}^6\text{Li}+{}^{93}\text{Nb}$ system around the Coulomb barrier	CNR-04
23	Golda K S	Fusion-fission dynamics of ${}^{197}\text{Tl}$	CNR-05
24	Ayushi Awasthi	Constructing Inverse Potentials for α - ${}^{12}\text{C}$ Elastic Scattering Using Reference Model Approach	CNR-06

25	C. KARTHIKRAJ	Ternary fission mass and charge distribution of ^{236}U and ^{252}Cf - A three-body decay approach	CNR-07
26	GOURAB BANERJEE	Optimization of nuclear level density parameters	CNR-08
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