

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

University of Delhi, Delhi – 110007

October 21st – 25th, 2024

Venue: Conference Center, near Gate No. 4, University of Delhi (North Campus), Delhi.

Program Schedule (Tentative)

Arrival day: 20th October 2024

Monday, 21st October 2024		
08:30 - 09:45	Registration	
09:45 – 10:30	High Tea	
10:30 – 11:15	Inauguration of ICNPA -2024	
Theme: General		
Session -I (Chair:.....)		
Time	Name of Speaker	Title
11:15 – 11:55	Andrei Andreyev University of York, UK	Abrupt shape changes and shape coexistence studied by in-source laser spectroscopy across the lead region at ISOLDE-CERN
11:55 – 12:20	Robert Bark, iThemba LABS, South Africa	Facilities and research at iThemba LABS
12:20 – 12:45	B. P Singh Aligarh Muslim University, Aligarh, India	Exploring the Intricacies of Breakup in Low-Energy and Pseudo Transparency in Fermi Energy Region Heavy Ion Collisions
12:45 – 13:25	Rudrajyoti Palit, Tata Institute of Fundamental Research, Mumbai, India	Intriguing Aspects of Octupole Collectivity in Atomic Nuclei
13:25-14:30	Lunch Break	
Theme: Nuclear Reaction (NR) and Nuclear Structure (NS)		
Session -II : (Chair(s).....)		
14:30 : 16:10	Parallel Session –IA Ajay Tyagi, Banaras Hindu University, Varanasi, India Title: Time of flight and Tagged Neutron spectroscopy: Tools to study Nuclear Reactions Contributed Talks: CNR-01 to CNR-05	Parallel Session –IB Bernadette Rebeiro, GANIL, France Title: Precision measurements in superallowed nuclear beta decays at GANIL and upcoming opportunities with DESIR Contributed Talks: CNS-01 to CNS-05
16:10– 16:30	Coffee/ Tea Break	
16:30– 17:45	POSTER SESSION-1 50 Posters PNR-01 to PNR-25, PNS-01 to PNS -10 PANT-01 to PANT-05, PNA-01 to PNA-05, PNI-01 to PNI-05	

Tuesday, 22nd October 2024		
Theme: Nuclear Reaction (NR)		
Session -I (Chair:.....)		
Time	Name of Speaker	Title
9:15 – 9:55	S. Santra, Bhabha Atomic Research Centre, Mumbai, India	Recent highlights of nuclear physics research inBARC
9:55 – 10:20	Enrique Nacher, Instituto de Física Corpuscular (CSIC- UV), Spain	Nuclear data and instrumentation for Applications from ocean acidification to theranostics
10:20 – 10:45	Robert Gazywacz, University of Tennessee, USA	Beta-delayed neutron emission - intersections of nuclear structure and statistical models
10:45 – 11:10	I.M. Govil, Panjab University, Chandigarh, India	Nuclear reaction studies with heavy ion beams
11:10– 11:30	Coffee/ Tea Break	
Theme: (Particle Accelerators and Instrumentations)		
Session -II (Chair:.....)		
11:30– 12:10	Chandana Sumithrarachchi Michigan State University, USA	Production of Low Energy Beams at FRIB
12:10 – 12:50	Daisuke Suzuki, RIKEN NishinaCenter, Tokyo, Japan	Advances in nuclear science at RI Beam Factory
12:50– 13:15	Tanuja Dixit, SAMEER-India, Mumbai, India	Development of 30 MeV High Energy Linac for Medical and other applications
13:15 -14:30	Lunch Break	
Theme: Nuclear Reaction (NR) and Nuclear Astrophysics (NA)		
Session -III (Chair(s):.....)		
14:30 : 16:10	Parallel Session –IIA	Parallel Session –IIB
	Neeraj Kumar, IPHC, Strasbourg, France Title: Fission studies at VAMOS++ @ GANIL using inverse-kinematics Contributed Talks: CNR-06 - CNR-10	Shubhchintak, Punjabi University Patiala, India Title: Recent Developments in Nuclear Transfer Reactions Using the Lagrange-Mesh and R-matrix methods Contributed Talks: CNA-01 to CNA-05
16:10 – 16:30	Coffee/ Tea Break	
Theme: Achievement Award		
Session -IV (Chair:.....)		
16:30 - 17:45	Lifetime contribution Award	
18:30 – 21:30	Cultural Program followed by Dinner	

Wednesday, 23rd October 2024		
Theme: Nuclear Structure		
Session -I (Chair:)		
Time	Name of Speaker	Title
9:15 – 9:55	Pieter Doornenbal, RIKEN Nishina Center, Japan	Recent highlights on in-beam gamma spectroscopy atRIBF and future perspectives
9:55 – 10:20	Tumpa Bhattacharjee, VECC, Kolkata, India	Developments on lifetime measurements with fasttiming scintillation detectors: Study of exotic structures in nuclei
10:20 – 10:45	R.P. Singh, IUAC, Delhi	Lifetime measurements with INGA detector facility at IUAC, Delhi.
10:45 – 11:10	Smarajit Triambak, University of the Western Cape, South Africa	Nuclear spectroscopy relevant for fundamental symmetry tests: Some examples from odd-odd nuclei
11:10– 11:30	Coffee/ Tea Break	
Theme: Nuclear Reaction and Nuclear structure		
Session -II (Chair(s):.....)		
11:30 -13:10	Parallel Session –IIIA S. Appanababu, Andhra University, India Title: Revisiting Stelson model with weakly bound projectiles Contributed Talks: CNR-11 to CNR-15	Parallel Session –IIIB Anand Pandey, University of Delhi Title: Exploring octupole correlations in the neutron deficient nuclei with Z ~ 56 and mass A ~ 120 Contributed Talks: CNS -06 to CNS-10
13:10-14:30	Lunch Break	
Theme: Nuclear Structure and Nuclear Astrophysics/Application		
Session -III (Chair(s):)		
14:30 : 16:10	Parallel Session –IVA Tarkeshwar Trivedi, Allahabad University, India Title: Exploring Insights into Symmetric and Asymmetric Nuclear Structures Contributed Talks: CNS-11 to CNS-15	Parallel Session IVB Saneesh N., IUAC, Delhi Title: Study of heavy-ion induced fission in actinide nuclei through fragment-neutron correlation measurements Contributed Talks: CNA-06, CANT-01 to CANT-04
16:10 – 16:30	Coffee/ Tea Break	
16:30 – 17:30	Popular Lecture (to be announced later)	
19:00 – 22:00	Conference Dinner	

Thursday, 24th October 2024		
Theme: Nuclear Application		
Session -I (Chair:.....)		
Time	Name of Speaker	Title
9:15 – 9:55	Jean-Michael Daugas Institute Laue-Langevin (ILL), Grenoble, France	Nuclear spectroscopy for medical applications
9:55 – 10:20	Rakesh C. Ramola, H.N.B. Garhwal University, Srinagar, Garhwal, India	Thoron in High Background Radiation Areas: Characteristics, Exposure, Health Effects, and Measurement Techniques
10:20 – 10:45	Sushil Sharma, Jagiellonian University, Poland	Leveraging Multi-photon Detection with J-PET: Advancing Fundamental Physics and Medical Imaging through Positronium Decay Studies
10:45 – 11:10	Sanjay Rajput, Sriram Institute for Industrial Research, Delhi, India	Nuclear radiations for various Industrial Applications at Sriram Institute for Industrial Research, Delhi
11:10– 11:30	Coffee/ Tea Break	
Theme: Nuclear Application and Nuclear Instrumentation		
Session -II (Chair(s):.....)		
11:30-13:10	Parallel Session –VA	Parallel Session –VB
	Pushendra P. Singh, IIT Ropar, India Title: Spectroscopy of agriculture and neutral land soil samples for radioisotope investigations. Contributed Talks: CANT-05 to CANT-07, CNS-16 to CNS-17	Nikit Deshmukh, P P Savani University, Surat Title: Coupled channel effects and applications of reduction methodology in nuclear reactions using tightly bound beams Contributed Talks: CNI-01 to CNI-05
13:10 -14:30	Lunch Break	
14:30 –17:30	Free Day / IUAC Visit	

Friday, 25th October 2024		
Theme: General		
Session -I (Chair:....)		
Time	Name of Speaker	Title
9:15 – 9:55	Gopal Mukherjee, VECC, Kolkata, India	Investigation of exotic modes of nuclear excitation using light and heavy-ion beams at VECC
9:55 – 10:20	Avazbek Naisrov, Joint Institute for Nuclear Research, Russian Federation	The effect of the entrance channel properties in formation of the reaction products in heavy ion collisions
10:20 – 10:45	Yogesh Gupta, Bhabha Atomic Research Centre, India	Noble features in heavy-ion-induced fission using different particle emissions
10:45 – 11:10	Praveen Srivastava, IIT Roorkee, India	Ab initio no-core shell-model description of lighter nuclei
11:10– 11:30	Coffee/ Tea Break	
11:30– 13:10	Poster Session-II 50 posters PNR-25 to PNR-53, PNS-11 to PNS-28, PANT-06 to PANT-07, PNA-06 to PNA-07	
13:10-14:30	Lunch Break	
Theme: Nuclear Reaction and Nuclear Structure		
Session -II (Chair(s).....)		
14:30-15:30	Parallel Session –VIA	Parallel Session –VIB
	Contributed Talks: CNR-16 to CNR-20	Contributed Talks: CNS-18 to CNS-21
15:30 – 16:30	Summary Talk Prize Distribution and Conclusion of the Conference	
16:30 – 17:00	Coffee/ Tea Departure	

Departure Day: 26/10/2024