

International Conference in Nuclear Physics with Energetic Heavy Ion Beams
Date: 15-03-2017

Breakfast 8:00 -9.00 : Physics Lawn

Schedule of Sessions

Session-01: Venue: Prof. B.M. Anand Auditorium

9:30 – 10:00	Inauguration	Prof. A.K. Grover <i>Vice Chancellor Panjab University</i>
10:00 – 11:00	Prof. R.K. Bhowmik <i>(Former Sr. Scientist, IUAC, New Delhi & Former HOD, Department of Physics, Guru Ghasidas University, Bilaspur, Chattisgarh</i>	Development of Experimental Facilities for Nuclear Physics in India (Historical Prospectives)

Tea 11:00 – 11:30: Physics Department Lawn

Session-02: Prof. B.M. Anand Auditorium

11:30 – 12:00	Hans-Jürgen Wollersheim <i>GSI Helmholtzzentrum für Schwerionen mbH, Planckstrasse 1, D-64291 Darmstadt, Germany</i>	PreSPEC – Gamma-spectroscopy on the way towards NUSTAR
12:00 – 12:30	R. P. Singh <i>Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi - 110067, India.</i>	Nuclear structure studies at IUAC with heavy-ion beams
12:30 – 13:00	Rudrajyoti Palit <i>Tata Institute of Fundamental Research, Mumbai</i>	Physics highlights of Indian National Gamma Array (INGA) Campaign at TIFR and Plan for Super-INGA

Lunch 13:00 – 14:30 : Physics Department Lawn

Session-03: Venue: Prof. B.M. Anand Auditorium

14:30 – 15:00	Asimananda Goswami <i>Nuclear Physics Division, SINP, 1/AF, Bidhannagar, Kolkata 700064</i>	Effect of Alignment and Core Rotation on Shears Mechanism in Mass ~ 140 region
15:00 – 15:30	P. Chowdhury <i>Department of Physics, University of Massachusetts Lowell, USA</i>	Perspectives in Heavy Element Spectroscopy
15:30 – 16:00	S. S. Malik <i>Physics Department, G. N. D. University, Amritsar-143005, India</i>	How do nuclei rotate?

Tea 16:00 – 16:30

Session04: Venue: Prof. B.M. Anand Auditorium

16:30 - 17:00	S.K. Chamoli <i>Department of Physics & Astrophysics, University of Delhi, Delhi 110007, India</i>	Shape Transition in Pt-Nuclei with Mass A ~ 190
17:00 – 19:00	Oral Presentations O-1 to O-10	Each Presentation 10+2 mins.

Dinner 19:30 Onwards: Physics Lawn

International Conference in Nuclear Physics with Energetic Heavy Ion Beams
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Schedule of Sessions

Session-01 Venue: Prof. B.M. Anand Auditorium

9:30 – 10:00	T. R. Routray School of Physics, Sambalpur University, Jyotivihar-768 019, India	Nuclear Matter and Finite Nuclei Properties Using Finite Range Simple Effective Interaction
10:00 – 10:30	Santanu Pal <i>CS-6/1, Golf Green, Kolkata 700 095</i> <i>Formerly with Variable Energy</i> <i>Cyclotron Centre, Kolkata</i>	Statistical Model of Compound Nucleus Decay: Role of Shell Structure and Collective Motion
10:30 – 11:00	Christoph Hartnack <i>SUBATECH, UMR 6457 (IMTA,</i> <i>IN2P3/CNRS, Nantes Univ.), Nantes,</i> <i>France</i>	Isospin ratios of pions - A signature for the equation of state of asymmetric matter?

Tea 11:00 – 11:30

Session-02 Venue: Prof. B.M. Anand Auditorium

11:30 – 12:00	P. K. Raina <i>IIT Ropar</i>	Current Perspective of Double Beta Decay
12:00 – 12:30	S. Mukhopadhyay <i>Department of Physics and Astronomy,</i> <i>University of Kentucky, KY, USA</i>	Nuclear Structure of ⁷⁶ Ge from Inelastic Neutron Scattering Measurements: Relevance to Neutrinoless Double-Beta Decay
12:30 – 13:00	C.R. Praharaj <i>Institute of Physics, Bhubaneswar</i> <i>751005</i>	Microscopic Study of Spectra and Electromagnetic Transitions in Nuclei

Lunch: 13:00 – 14:30

Session-03 Venue: Prof. B.M. Anand Auditorium

14:30 – 15:00	Maninder Kaur <i>Department of Physical Sciences, I.K.</i> <i>Gujral Punjab Technical University,</i> <i>Kapurthala - 144603, INDIA</i>	Investigating the Dynamics of Heavy-Ion Induced Fusion Reactions
15:00 – 15:30	D.G. Jenkins <i>University of York, UK</i>	Fusion in massive stars: Pushing the 12C+12C cross-section to the limits with the STELLA experiment at IPN Orsay
15:30 – 16:00	C. Bhattacharya <i>Variable Energy Cyclotron Centre,</i> <i>1/AF, Bidhan Nagar, Kolkata, INDIA</i>	Recent Experimental Nuclear Reaction Studies at VECC

Tea: 16:00 – 16:30

Session-04 Venue: Prof. B.M. Anand Auditorium

16:30 - 17:30	Oral Presentations O-11 to O-15	Each Presentation 10 +2 mins.
17:30-19:30	POSTER PRESENTATIONS (P-1 to P-85) AT PHYSICS DEPARTMENT FRONT CORRIDOR Coordinator: Dr. Ashok Kumar	

Dinner 7:30 onwards: Physics Lawn

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Breakfast 8:00 -9.00 : Physics Lawn

Schedule of Sessions

Session-01 Venue: Prof. B.M. Anand Auditorium

9:30 – 10:00	Umesh Garg <i>Physics Department, University of Notre Dame, Notre Dame, IN 46556, USA</i>	Nuclear Structure Effects on Nuclear Incompressibility
10:00 – 10:30	K. Mahata <i>Nuclear Physics Division, Bhabha Atomic Research Centre, Mumbai 400 085, India</i>	Neutron emission in fission of $A \sim 200$
10:30 – 11:00	D.C. Biswas <i>Nuclear Physics Division, Bhabha Atomic Research Centre Trombay, Mumbai – 400085, INDIA</i>	Role of nuclear shell closure on shape deformation in neutron-rich fission fragments

Tea 11:00 – 11:30

Session-02 Venue: Prof. B.M. Anand Auditorium

11:30 – 12:00	S. Santra <i>Nuclear Physics Division, Bhabha Atomic Research Centre, Mumbai 400085, India</i>	Sequential breakup of ${}^6\text{Li}$ by ${}^{112}\text{Sn}$
12:00 – 12:30	B. P. Singh <i>Department of Physics, Aligarh Muslim University, Aligarh-202002, India.</i>	Systematics in Break-up Fusion Reactions at Low Energies
12:30 – 13:00	Manoj K. Sharma <i>School of Physics and Materials Science, Thapar University, Patiala (Punjab), India</i>	Fragmentation analysis of stable and exotic nuclear systems using collective clusterization phenomenon

Lunch : 13:00 – 14:00

Session-03 Venue: Prof. B.M. Anand Auditorium

14:30 – 15:00	N.L. Singh <i>Department of Physics, Faculty of Science The Maharaja Sayajirao University of Baroda, Vadodara-390002, India</i>	Neutron Induced Reaction/Fission Cross Sections on Materials for Nuclear Data Applications
15:00 – 15:30	Devinder Mehta <i>Department of Physics, Panjab University, Chandigarh-160014</i>	Multi-Purpose Accelerator Facility Proposal for Panjab University
15:30 – 16:00	P.J. Davies <i>University of Manchester, Manchester, UK</i>	UK Nuclear Data Network: UK research initiatives in industrial nuclear data

Tea: 16:00 – 16:30

Session-04 Venue: Prof. B.M. Anand Auditorium

16:30 – 17:00	Samit K. Mandal <i>Department of Physics and Astrophysics, University of Delhi, New Delhi -110007, India</i>	Multi-Nucleon Transfer and Their Effect on The Reaction Mechanism Near Coulomb Barrier
17:00 – 17:30	S. K. Patra <i>Institute of Physics, Bhubaneswar-751005, India</i>	Tidal Deformability of Neutron and Hyperon Star with Relativistic Mean Field Equations of State
17:30 – 18:00	Zashmir Naik <i>Sambalpur University, Sambalpur, India</i>	High Spin Structure of Highly neutron rich Fe and Ni Nuclei in deformed PHF model
18:00 – 18:30	Suresh Kumar <i>Department of Physics and Astrophysics, University of Delhi, Delhi-110007, India</i>	Importance of nucleon in the coupling mechanism to explore the nuclear structure of nearly deformed nuclei
18:30 – 19:00	Two Oral Presentations	

Dinner 7:30 onwards: Physics Lawn

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Session-01 Venue: Prof. B.M. Anand Auditorium

9:30 – 10:00	Akhil Jhingan <i>Inter University Accelerator Centre, P. O Box 10502, New Delhi – 110067</i>	Detector developments for Nuclear Physics experiments at IUAC
10:00 – 11:00	Oral Presentations O-16 to O-20	Each Presentation 10 + 2 mins.

Tea 11:15 – 11:30

Session-02 Venue: Prof. B.M. Anand Auditorium

11:30 – 11:55	Oral Presentations O-21 to O-22	Each Presentation 10 + 2 mins.
11:55 – 12:25	Sunil Kalkal <i>School of Physics and Material Sciences, Thapar University, Patiala-147001, Punjab, India</i>	Break-up reaction mechanism in interactions with ${}^{6,7}\text{Li}$
12:25 – 12:45	Vivek Kumar <i>Centre for Medical Physics, Panjab University, Chandigarh, India</i>	Evolution of nuclear shapes in the light Radon isotope
12:45 – 13:15	Ajay Kumar <i>Physics Department, Banaras Hindu University, Varanasi</i>	Neutron Measurements at BARC, DUBNA and Kentucky facilities

Lunch : 13:15 – 14:00

Session-03 Venue: Prof. B.M. Anand Auditorium

14:00 – 14:30	Pushpendra P. Singh <i>Department of Physics, Indian Institute of Technology Ropar, Rupnagar – 140 001, India</i>	How well do we understand Nuclear Reactions Around the Coulomb Barrier – a few Answers & Questions
14:30 – 15:00	H. P. Sharma <i>Department of Physics, Institute of Science, Banaras Hindu University, Varanasi, India.</i>	Structure of Intruder Band in ${}^{119-129}\text{Xe}$
15:00- 15:30	Hardev Singh <i>Department of Physics, Kurukshetra University, Kurukshetra, Haryana, 136119</i>	Intermediate Mass Fragment Emission in Multiple Neck Snapping in Ca+Sn Reactions
15:30- 16:00	Sakshi Gautam <i>Department of Physics, Panjab University Chandigarh, India</i>	Dynamics of fragmentation in heavy-ion collisions at intermediate energies
16:00- 16:30	S. Sihotra <i>Department of Physics, Panjab University, Chandigarh-160014, India</i>	Nuclear Structure Studies Close to $N = Z = 50$ Shell Closure
16:30- 17:00	Ashok Kumar <i>Department of Physics, Panjab University, Chandigarh-160014, India.</i>	Effect of Viscosity on the Fusion-Fission Dynamics Studied by Charged Particle Emission
17:00- 17:15	Summary of the Conference	Discussions

17:15 TEA

END OF THE CONFERENCE