

Monday, December 23, 2019

Venue: Malviya Hall, Lucknow University, Lucknow

Session: I

9:00 Hrs - 10:00 Hrs

Inauguration

High Tea

10:30 Hrs - 11:00 Hrs

Keynote Address

Prof. S. Bhattacharya (Formerly with VECC)

Current Trends In Nuclear Physics Research: The Indian Scenario

Session: II

11:15 Hrs - 11:45 Hrs

Umesh Garg (University of Notre Dame, USA)

Chirality, wobbling and chiral wobblers

11:45 Hrs - 12:15 Hrs

S. Krishnagopal (BARC, Mumbai)

The Low Energy High Intensity Proton Accelerator (LEHIPA): Status and Plans

Session: III (Parallel Sessions)

12:30 Hrs - 13:30 Hrs

Parallel Session: IIIA (Hari Krishna Awasthi Sabhagar)

Contributions : A1-A6

12:30 Hrs - 13:30 Hrs

Parallel Session: IIIB (Malviya Hall)

Contributions : B1-B6

12:30 Hrs - 13:30 Hrs

Parallel Session: IIIC (Auditorium, Phys. Dept.)

Contributions : C1-C5 and B7

Lunch

Session: IV (Special Session)

14:30 Hrs - 18:00 Hrs

Contributions : S1-S9 (Malviya Hall)

Future Facilities and Scope for Nuclear Physics Research in the Country

Session: V (Evening Lecture)

18:30 Hrs - 19:30 Hrs

Ranganath R. Navalgund (Former Director, Space Applications Centre, ISRO)

Remote Sensing: Systems, Science and Applications

20:00 Hrs onwards

Dinner

Tuesday, December 24, 2019

Venue: Malviya Hall, Lucknow University, Lucknow

Session: VI

- 9:00 Hrs - 9:30 Hrs **S. S. Ghugre (UGC-DAE-CSR, Kolkata)**
The Digital Highway to Nuclear Excitations: Of Milestones Covered & the Miles Ahead
- 9:30 Hrs - 10:00 Hrs **Rituparna Kanungo (TRIUMF, Vancouver, Canada)**
Unveiling new features in rare isotopes with direct reactions
- 10:00 Hrs - 10:30 Hrs **Suresh Kumar (University of Delhi)**
Investigation of triaxiality in the Ba nuclei near $N=82$ shell closure
- 10:30 Hrs - 11:00 Hrs **T. Trivedi (Guru Ghasidas University, Bilaspur)**
Structural evolution and symmetry breaking features of exotic nuclei

Tea

Session: VII

- 11:15 Hrs - 11:45 Hrs **P. K. Rath (University of Lucknow)**
Nuclear Structure Aspects of Exotic Weak Decays
- 11:45 Hrs - 12:15 Hrs **V. Jha (BARC, Mumbai)**
Puzzling features in reactor antineutrino measurements : role of ISMRAN detector

Session: VIII (Parallel Sessions)

- 12:30 Hrs - 13:30 Hrs **Parallel Session: VIIIA (Hari Krishna Awasthi Sabhagar)**
Contributions : A7-A12
- 12:30 Hrs - 13:30 Hrs **Parallel Session: VIIIB (Malviya Hall)**
Contributions : B8-B13
- 12:30 Hrs - 13:30 Hrs **Parallel Session: VIIC (Auditorium, Phys. Dept.)**
Contributions : D1-D6

Lunch

- 14:30 Hrs - 16:30 Hrs **Session: IX (Poster Session-1 of 3)**
Thesis Contributions : T1-T29, Contributions : A25-A53, B26-B61, C6-C27, G15-G57

Tea

Session: X

- 16:45 Hrs - 17:15 Hrs **V. V. Parkar (BARC, Mumbai)**
Systematic of Incomplete fusion with strongly and weakly bound projectiles
- 17:15 Hrs - 17:45 Hrs **Pushpendra P. Singh (IIT Ropar)**
Does neutron transfer influence sub-barrier fusion?
- 18:30 Hrs - 19:30 Hrs **Cultural Evening**
- 20:00 Hrs onwards **Dinner**

Wednesday, December 25, 2019

Venue: Malviya Hall, Lucknow University, Lucknow

Session: XI

- 9:00 Hrs - 9:30 Hrs **Pascal Jardin (GANIL)**
Methods for the production of radioactive ion beams
- 9:30 Hrs - 10:00 Hrs **K. Banerjee (VECC, Kolkata)**
Fusion fission dynamics in Super Heavy Element synthesis
- 10:00 Hrs - 10:30 Hrs **Deepak Pandit (VECC, Kolkata)**
Understanding the collective enhancement in the nuclear level density
- 10:30 Hrs - 11:00 Hrs **Ajay Kumar Rai (SVNIT, Surat)**
Recent developments in Hadron Spectroscopy

Tea

Session: XII

- 11:15 Hrs - 11:45 Hrs **K. Sekizawa (Niigata University, Japan)**
Time-Dependent Hartree-Fock Theory and Its Extensions for Low-Energy Nuclear Reactions: Recent Progress
- 11:45 Hrs - 12:15 Hrs **G. Gangopadhyay (University of Calcutta, Kolkata)**
Nuclear inputs in astrophysical s-process nucleosynthesis

Session: XIII (Parallel Sessions)

- 12:30 Hrs - 13:30 Hrs **Parallel Session: XIII A (Malviya Hall)**
Contributions : A13-A18
- 12:30 Hrs - 13:30 Hrs **Parallel Session: XIII B (Hari Krishna Awasthi Sabhagar)**
Contributions : E01-E06
- 12:30 Hrs - 13:30 Hrs **Parallel Session: XIII C (Auditorium, Phys. Dept.)**
Contributions : G01-G06

Lunch

- 14:30 Hrs - 19:30 Hrs **Shaam-e-Avadh**

Thursday, December 26, 2019

Venue: Malviya Hall, Lucknow University, Lucknow

Session: XIV

- 9:00 Hrs - 9:30 Hrs **Indranil Das (SINP, Kolkata)**
Quarkonium measurements at forward rapidity with ALICE at the LHC
- 9:30 Hrs - 10:00 Hrs **P. Shukla (BARC, Mumbai)**
Probing Quark Gluon Plasma in PbPb collisions at LHC
- 10:00 Hrs - 10:30 Hrs **Raktim Abir (Aligarh Muslim University)**
Color Glass Condensate and Glasma
- 10:30 Hrs - 11:00 Hrs **Amaresh Jaiswal (NISER, Bhubaneswar)**
Attractors in higher-order viscous hydrodynamics for Bjorken flow

Tea

Session: XV

- 11:15 Hrs - 11:45 Hrs **S. Appannababu (Andhra University, Visakhapatnam)**
Recent results from RIBRAS (Radioactive Ion Beams in Brasil) facility
- 11:45 Hrs - 12:15 Hrs **S. Ramanan (IIT Madras)**
Superfluidity in neutron stars

Session: XVI (Parallel Sessions)

- 12:30 Hrs - 13:30 Hrs **Parallel Session: XVIA (Hari Krishna Awasthi Sabhagar)**
Contributions : A19-A24
- 12:30 Hrs - 13:30 Hrs **Parallel Session: XVIB (Malviya Hall)**
Contributions : B14-B19
- 12:30 Hrs - 13:30 Hrs **Parallel Session: XVIC (Auditorium, Phys. Dept.)**
Contributions : G07-G12

Lunch

- 14:30 Hrs - 16:30 Hrs **Session: XVII (Poster Session-2 of 3)**
Thesis Contributions : T1-T29, Contributions : A54-A89, B62-B97, D7-D37, E13-E39

Tea

Session: XVIII

- 16:45 Hrs - 17:15 Hrs **F. Naqvi (University of Delhi)**
Systematic study of the γ -ray strength function of samarium isotopes
- 17:15 Hrs - 17:45 Hrs **S. Mukhopadhyay (VECC, Kolkata)**
Nuclear collective excitations in hot and fast rotating nuclei

Friday, December 27, 2019

Venue: Malviya Hall, Lucknow University, Lucknow

Session: XIX

9:00 Hrs - 11:00 Hrs

Thesis Presentations (Shortlisted)

Tea

11:15 Hrs - 12:15 Hrs

Session: XX (Poster Session-3 of 3)

Contributions : A90-A132, B98-B124, E40-E68, F2-F5, G58-G79

Session: XXI (Parallel Sessions)

12:30 Hrs - 13:30 Hrs

Parallel Session: XXIA (Malviya Hall)

Contributions : B20-B25

12:30 Hrs - 13:30 Hrs

Parallel Session: XXIB (Hari Krishna Awasthi Sabhagar)

Contributions : E7-E12

12:30 Hrs - 13:30 Hrs

Parallel Session: XXIC (Auditorium, Phys. Dept.)

Contributions : F1, G13, G14

Lunch

Session: XXII

14:30 Hrs - 15:00 Hrs

I. A. Rizvi (Aligarh Muslim University)

Study of some light, medium and heavy-ion induced reactions at the cyclotron energies

15:00 Hrs - 15:30 Hrs

S. V. Suryanarayana (BARC, Mumbai)

Nuclear Data requirements, challenges and need for new experimental measurements

Tea

**Session: XXIII
Concluding Session**

15:45 Hrs - 16:45 Hrs

Award Distribution

Summary Talk : **R. G. Pillay (IIT Ropar)**

Concluding Remarks : **B. K. Nayak (BARC, Mumbai)**