

Programme

Monday, December 3, 2012

Session I: Inauguration

09:00 Hrs	Welcome	Samit K. Mandal (Univ. Delhi)
09:05 Hrs	Opening Remarks	Vivek M. Datar (BARC), Chairman
09:10 Hrs	Introduction	Sudhir R. Jain (BARC), Convener
09:15 Hrs	Presidential address	S. Kailas (BARC)
09:30 Hrs	Address by the Chief Guest	Ajay Kumar (Univ. Delhi)
09:50 Hrs	Keynote address	Amit Roy (IUAC)
10:05 Hrs	Inaugural talk	Asoke Nath Mitra (Univ. Delhi)
10:45 Hrs	Vote of thanks	Prashant Shukla (BARC), Secretary

10:50 Hrs – 11:15 Hrs **High Tea**

Session II

(Chairperson: S. C. Pancholi, IUAC, New Delhi)

11:15 Hrs – 11:55 Hrs	Martin Freer (Birmingham, UK) Cluster Structures in Light nuclei
11:55 Hrs – 12:35 Hrs	V.K.B. Kota (PRL, Ahmedabad) Random matrix theory in nuclear structure: past, present, future
12:35 Hrs – 13:15 Hrs	S. R. Banerjee (VECC, Kolkata) Giant dipole resonance-new experimental perspectives

Lunch

14:15 Hrs – 16:15 Hrs **Parallel Session III A**

(Chairperson: A. Ansari, NISER, Bhubaneswar)

Seminars: I16 Unexpected characteristics of the Isoscalar ... (Krishichayan, GGU, Bilaspur)
I17 Nuclear structure studies in $A \sim 100$... (S.Sihotra, PU, Chandigarh)
I18 Photodisintegration Studies at $HI \gamma$... (R. Raut, UGC-DAE CSR, Kolkata)

Contributions: A1-A6

16:15 Hrs – 16:40 **Tea**

16:40 Hrs – 17:40 Hrs Contributions: A7-A12

14:15 Hrs – 16:25 Hrs **Parallel Session IIIB**

(Chairperson: Suresh Kumar, BARC)

Seminar: I19 Digital Pulse Shape Analysis with NTD Silicon ... (V.V. Parkar, BARC)
Contributions: G1-G11

Tuesday, December 4, 2012

Session IV

(Chairperson: Dinesh K. Srivastava, VECC)

09:30 Hrs – 10:10 Hrs G. V. Dunne (Connecticut, USA)
Phase diagram and baryon-baryon scattering in the Gross-Neveu model

10:10 Hrs – 10:50 Hrs M. G. Mustafa (SINP, Kolkata)
Heavy flavour production and propagation

10:50 Hrs – 11:30 Hrs Debasish Das (SINP, Kolkata)
Quarkonia production measurements at forward rapidities in ALICE

11:30 Hrs – 12 Noon **Tea**

12 Noon – 13:00 Hrs **Parallel Session VA**

(Chairperson: Ajit K. Mohanty, BARC)

Seminar: I20 Non-perturbative aspects of quark gluon plasma... (P. Chakraborty, PRL, Ahmedabad)
Contributions: F1-F4

Parallel Session VB

(Chairperson: M. Saha Sarkar, SINP)

Seminar: I21 Measurement of the Elastic and Inelastic Differ... (Ajay Kumar, BHU, Varanasi)
Contributions: B1-B4

Lunch

Session VI

(Chairperson: Ashok K. Jain, IITR)

14:00 Hrs – 15:00 Hrs L. Fortunato (Padova, Italy)
Review of critical point symmetries and shape phase transitions

15:00 Hrs – 16:00 Hrs **Parallel Session VIA**
Contributions: A13-A18

15:00 Hrs – 16:00 Hrs **Parallel Session VIB**
(Chairperson: Debajyoti Choudhury, Univ. Delhi)
Contributions: E1-E6

Tea

POSTER SESSION

Contributions: A22-A51, B20-B54, F13-F32, G12-G31, T1-T18

18:30 Hrs **Evening Talk**

Wednesday, December 5, 2012

Session VII

(Chairperson: Wasi Haider, AMU)

- 09:30 Hrs – 10:10 Hrs** Liang Yang (Urbana-Champaign, USA)
Neutrinoless double beta decay search with EXO-200
- 10:10 Hrs – 10:50 Hrs** Maxim Gonchar (JINR, Russia)
Precise θ_{13} measurement at Daya Bay reactor neutrino experiments
- 10:50 Hrs – 11:20 Hrs** **Tea**

Session VIIIA

(Chairperson: Rudrajyoti Palit, TIFR)

- 11:20 Hrs – 12 Noon** K. Mahata (BARC)
Fission barriers and saddle shapes in nuclei $A \sim 200$
- 12 Noon – 13:00 Hrs** **Parallel Session VIIIA**
Contributions: B5-B10
- 12 Noon – 13:00 Hrs** **Parallel Session VIIIB**
(Chairperson: S. Muralithar, IUAC)
Seminars: I22 A GEM based Muon Tracker for CBM experiment at ... (A. K. Dubey, VECC)
I23 Charged particle detector development for the ... (A. Jhingan, IUAC)
I24 Resistive Plate Chambers for the upgrade of the... (L.M. Pant, BARC)

Lunch

- 14:00 Hrs – 16:00 Hrs** **Parallel Session I**
(Chairperson: P. Sugathan, IUAC)
Contributions: A19-A21, B11-19
- 14:00 Hrs – 16:00 Hrs** **Parallel Session IXB**
(Chairperson: P. K. Rath, Lucknow Univ.)
Contributions: E7-E10, F5-F12

Tea

POSTER SESSION

Contributions: A52-A81, B55-B94, E12-E31, F33-F50, T1-T18

Thursday, December 6, 2012

Session X

(Chairperson: Ambar Chatterjee)

09:30 Hrs – 10:10 Hrs

A. K. Sinha (UGC-DAE-CSR, Kolkata)
Nuclear Physics with INGA

10:10 Hrs – 10:50 Hrs

Gordon C. Ball (TRIUMF, Canada)
Gamma-ray spectroscopy at TRIUMF-ISAC

10:50 Hrs – 11:20 Hrs

Tea

11:20 Hrs – 12 Noon

Tomofumi Nagae (Kyoto, Japan)
Recent topics in strangeness nuclear physics at J-PARC

12 Noon – 13:30 Hrs

Session XI

(Chairperson: Amit Roy, IUAC)

Four selected theses will be presented (15 minutes each)

Lunch

**Excursion followed by dinner hosted by the
Inter University Accelerator Centre**

Friday, December 7, 2012

Session XII

(Chairperson: Polash Banerjee, SINP)

09:30 Hrs – 10:10 Hrs

B. R. Fulton (York, UK)
Recent progress in nuclear astrophysics

10:10 Hrs – 10:50 Hrs

C. Iliadis (North Carolina, USA)
Nuclear fusion in stars: origin of elements

10:50 Hrs – 11:20 Hrs

Tea

11:20 Hrs – 13:00 Hrs

POSTER SESSION

Contributions: A82-A102, C3-C9, D4-D22,
E32-E55, G32-G57

Lunch

14:00 Hrs – 15:20 Hrs

Parallel Session XIII A

(Chairperson: T. R. Seshadri, Univ. Delhi)

Seminars: I25 TAMU-TRAP facility ... (P. D. Shidling, Texas A&M, USA)
I26 Equation of state for core collapse supernova ... (S. Banik, SINP)
Contributions: D1- D3, E11

14:00 Hrs – 15:20 Hrs

Parallel Session XIII B

(Chairperson: Samit K. Mandal, Univ. Delhi)

Seminars: I27 Nustar at FAIR (J. Gerl, GSI, Germany)
I28 Physics programme of the PANDA Experiment (V. Jha, BARC)
I29 Exploration of high density matter ... (S. Chattopadhyay, VECC)
Contributions: C1, C2

Tea

15:45 Hrs – 17:00 Hrs

Session XIV

(Chairperson: Avinash Khare, DU)

Presentation of the Best thesis Prize

Summary talks

*(20 minutes each, by Rajdeep Chatterjee, Aradhana Shrivastava)
Perspective and concluding remarks by Vivek M. Datar*