65th DAE-BRNS SYMPOSIUM ON NUCLEAR PHYSICS

DAE Convention Centre, Anushaktinagar,
Mumbai-400094, India.

December 1 - 5, 2021

Programme Booklet

Wednesday, December 1, 2021

Venue: DAE Convention Centre, Anushaktinagar

Session: I

(Auditorium A)

9:30 - 10:00 Hrs	**Inauguration**
10:00 - 10:30 Hrs	Keynote Talk **S. Kailas (Centre for Excellence in Basic Sciences, Mumbai)** *Nuclear Physics - Recent highlights and prospects*
10:30 - 11:00 Hrs	**High Tea**
11:00 - 11:30 Hrs	**Rituparna Kanungo (Saint Mary's University, Canada)** *Unveiling new features in rare isotopes with direct reactions*

Session: II

11:35 - 13:10 Hrs	**Parallel Session: IIA (Auditorium A)** *Contributions : B1-B9*
11:35 - 13:10 Hrs	**Parallel Session: IIB (Auditorium B)** *Contributions : A1-A9*
11:35 - 13:10 Hrs	**Parallel Session: IIC (Conference Hall)** *Contributions : E1-E9*
13:10 - 14:10 Hrs	**Lunch Break**

Session: III

14:10 - 15:50 Hrs	**Parallel Session: IIIA (Auditorium A)** *Contributions : B10-B18*
14:10 - 15:50 Hrs	**Parallel Session: IIIB (Auditorium B)** *Contributions : A10-A18*
14:10 - 15:50 Hrs	**Parallel Session: IIIC (Conference Hall)** *Contributions : D1-D9*
15:50 - 16:20 Hrs	**Tea Break**

Session: IV (Poster Session)

16:20 - 18:00 Hrs	**Parallel Session: IVA (Auditorium A)** *Contributions : B81-B96*
16:20 - 18:00 Hrs	**Parallel Session: IVB (Auditorium B)** *Contributions : A55-A70*
16:20 - 18:00 Hrs	**Parallel Session: IVC (Conference Hall)** *Contributions : D34-D47 & E47-E48*

Thursday, December 2, 2021

Venue: DAE Convention Centre, Anushaktinagar

Session: V

(Auditorium A)

9:30 - 10:00 Hrs	**J. J. Das (Cotton University, Guwahati)** *Proposed accelerator facility for fundamental and applied sciences by CUPAC (Cotton University Particle Accelerator Centre)-North East*
10:00 - 10:30 Hrs	**R. G. Thomas (Bhabha Atomic Research Centre, Mumbai)** *The ECRIS facility at BARC and its utilization for low energy nuclear reactions and fast neutron production*
10:30 - 11:00 Hrs	**S. K. Pandit (Bhabha Atomic Research Centre, Mumbai)** *Unraveling reaction mechanisms involving weakly bound stable nuclei*
11:00 - 11:30 Hrs	**Tea Break**

Session: VI

11:30 - 13:10 Hrs	**Parallel Session: VIA (Auditorium A)** *Contributions : B19-B27*
11:30 - 13:10 Hrs	**Parallel Session: VIB (Auditorium B)** *Contributions : A19-A27*
11:30 - 13:10 Hrs	**Parallel Session: VIC (Conference Hall)** *Contributions : E10-E18*
13:10 - 14:10 Hrs	**Lunch Break**

Session: VII

14:10 - 15:50 Hrs	**Parallel Session: VIIA (Auditorium A)** *Contributions : B28-B36*
14:10 - 15:50 Hrs	**Parallel Session: VIIB (Auditorium B)** *Contributions : A28-A36*
14:10 - 15:50 Hrs	**Parallel Session: VIIC (Conference Hall)** *Contributions : D10-D18*
15:50 - 16:20 Hrs	**Tea Break**

Session: VIII (Poster Session)

16:20 - 18:00 Hrs	**Parallel Session: VIIIA (Auditorium A)** *Contributions : B97-B112*
16:20 - 18:00 Hrs	**Parallel Session: VIIIB (Auditorium B)** *Contributions : A71-A86*
16:20 - 18:00 Hrs	**Parallel Session: VIIIC (Conference Hall)** *Contributions : E49-E64 & F2*

Friday, December 3, 2021

Venue: DAE Convention Centre, Anushaktinagar

Session: IX
(Auditorium A)

9:30 - 10:00 Hrs	**N. Sensharma (University of North Carolina at Chapel Hill, USA)** *Single-particle and collective excitations in the $A \sim 60$ region*
10:00 - 10:30 Hrs	**Varinderjit Singh (I. K. Gujral Punjab Technical University, Kapurthala)** *An attempt to explore the fusion of light and mid-mass nuclei away from β stability line*
10:30 - 11:00 Hrs	**Sushanta Tripathy(INFN-Sezione Di Bologna, Italy)** *Soft QCD results at the LHC with ALICE: focus on small collision systems*
11:00 - 11:30 Hrs	**Tea Break**

Session: X

11:30 - 13:10 Hrs	**Parallel Session: XA (Auditorium A)** *Contributions : B37-B45*
11:30 - 13:10 Hrs	**Parallel Session: XB (Auditorium B)** *Contributions : A37-A45*
11:30 - 13:10 Hrs	**Parallel Session: XC (Conference Hall)** *Contributions : E19-E27*
13:10 - 14:10 Hrs	**Lunch Break**

Session: XI
(Auditorium A)

14:10 - 15:50 Hrs	Thesis Presentations (2020)
15:50 - 16:20 Hrs	**Tea Break**

Session: XII (Poster Session)

16:20 - 18:00 Hrs	**Parallel Session: XIIA (Auditorium A)** *Contributions : B113-B128*
16:20 - 18:00 Hrs	**Parallel Session: XIIB (Auditorium B)** *Contributions : A87-A90 & C21-C31*
16:20 - 18:00 Hrs	**Parallel Session: XIIC (Conference Hall)** *Contributions : G36-G52*

Saturday, December 4, 2021

Venue: DAE Convention Centre, Anushaktinagar

Session: XIII

(Auditorium A)

9:30 - 10:00 Hrs	**Z. Ahmad Dar (College of William and Mary, Williamsburg, Virginia, USA)** *Recent Results from the MINERνA experiment*
10:00 - 10:30 Hrs	**G. Mukherjee (Variable Energy Cyclotron Centre, Kolkata)** *Triaxial shape and its manifestations in nuclei in $A \sim 180 - 190$ region*
10:30 - 11:00 Hrs	**Jajati K. Nayak (Variable Energy Cyclotron Centre, Kolkata)** *The study of strangeness in exploring the QCD phase diagram*
11:00 - 11:30 Hrs	**Tea Break**

Session: XIV

11:30 - 13:10 Hrs	**Parallel Session: XIVA (Auditorium A)** *Contributions : B46-B54*
11:30 - 13:10 Hrs	**Parallel Session: XIVB (Auditorium B)** *Contributions : A46-A54*
11:30 - 13:10 Hrs	**Parallel Session: XIVC (Conference Hall)** *Contributions : E28-E36*
13:10 - 14:10 Hrs	**Lunch Break**

Session: XV

14:10 - 15:50 Hrs	**Parallel Session: XVA (Auditorium A)** *Contributions : B55-B63*
14:10 - 15:50 Hrs	**Parallel Session: XVB (Auditorium B)** *Contributions : G1-G9*
14:10 - 15:50 Hrs	**Parallel Session: XVC (Conference Hall)** *Contributions : D19-D27*
15:50 - 16:20 Hrs	**Tea Break**

Session: XVI

(Auditorium A)

16:20 - 18:00 Hrs	Thesis Presentations (2021)

Sunday, December 5, 2021

Venue: DAE Convention Centre, Anushaktinagar

Session: XVII

9:30 - 11:00 Hrs	**Parallel Session: XVIIA (Auditorium A)** *Contributions : B64-B72*
9:30 - 11:00 Hrs	**Parallel Session: XVIIB (Auditorium B)** *Contributions : G10-G18*
9:30 - 11:00 Hrs	**Parallel Session: XVIIC (Conference Hall)** *Contributions : C1-C9*
11:00 - 11:30 Hrs	**Tea Break**

Session: XVIII

11:30 - 13:10 Hrs	**Parallel Session: XVIIIA (Auditorium A)** *Contributions : B73-B80 & F1*
11:30 - 13:10 Hrs	**Parallel Session: XVIIIB (Auditorium B)** *Contributions : G19-G27*
11:30 - 13:10 Hrs	**Parallel Session: XVIIIC (Conference Hall)** *Contributions : C10-C11 & E37 -E43*
13:10 - 14:10 Hrs	**Lunch Break**

Session: XIX

14:10 - 15:50 Hrs	**Parallel Session: XIXA (Auditorium A)** *Contributions : C12-C20*
14:10 - 15:50 Hrs	**Parallel Session: XIXB (Auditorium B)** *Contributions : G28-G35*
14:10 - 15:50 Hrs	**Parallel Session: XIXC (Conference Hall)** *Contributions : D28-D33 & E44-E46*
15:50 - 16:20 Hrs	**Tea Break**

Session: XX (Concluding Session)

(Auditorium A)

16:20 - 18:00 Hrs	Award Distribution Summary Talk : **R. K. Choudhury (Ex-BARC, Mumbai)** Concluding Remarks : **A. K. Gupta (BARC, Mumbai)**