

# DST - SERC SCHOOL ON NUCLEAR MATTER UNDER EXTREME CONDITIONS

January 7-25, 2013

The 2nd DST-SERC school on Nuclear Matter Under Extreme Conditions will be held at Variable Energy Cyclotron Centre, Kolkata during January 7-25, 2013. The school will broadly cover the theoretical & experimental issues related to hot & dense nuclear matter and the subject of quark-hadron phase transition in relativistic heavy ion collisions covering the experimental programmes at PANDA, CBM, RHIC, and LHC. Applications are invited from Ph. D. students, young post docs and faculties working in the field of nuclear matter at high temperatures and densities. Bright final year M. Sc. students are also welcome to apply. Travel (by AC II train) and local hospitality will be provided to outstation participants. Selected applicants from countries other than India will be provided local hospitality only.

## Aim

To Attract, Expose and Motivate Young Researchers in the Study of Nuclear Matter at High Temperature and Density.

## TOPICS

Relativistic Kinematics | Quantum Field Theory | Quantum Chromodynamics  
| Spectral Change of Hadrons in Medium | Initial Conditions in Heavy Ion Collisions  
| Relativistic (Viscous) Hydrodynamics and Space Time Evolution | Heavy Ion Phenomenology and Quark  
Gluon Plasma | Partonic Energy Loss and Jet Quenching | Event Generators | Accelerators  
| Detectors | Analysis Techniques & Error Analysis etc.

## Planning Committee

| Prof. A K Jain (IIT, Roorkee), Chairman | Dr. A Chatterjee (BARC, Mumbai) | Dr. D K Srivastava (VECC, Kolkata)  
| Dr. Ajit Sinha (UGC-DAE-CSR, Kolkata) | Prof. Raghav Varma (IIT, Bombay) | Prof. N M Badiger (Karnatak Univ. Dharwad)  
| Dr. Amitava Roy (DST, New Delhi), Secretary.



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## Contact

Jan-e Alam, Director | Sourav Sarkar, Dy. Director  
2nd SERC School on Nuclear Physics  
Variable Energy Cyclotron Centre  
Department of Atomic Energy  
Sector - I, Block - AF, Bidhan Nagar  
Kolkata 700 064, India  
Phone: +91 33 2318 2414  
Fax: +91 33 2334 6871  
Email: sercnp2013@vecc.gov.in.

## Venue

Variable Energy Cyclotron Centre  
Department of Atomic Energy  
Sector - I, Block - AF, Bidhan Nagar  
Kolkata - 700 064, India

## Sponsor

Department of Science & Technology (DST)  
Government of India

<http://www.vecc.gov.in/SERCNP2013>

## Organizing Committee

Jan-e Alam	VECC
Abhijit Bhattacharyya	CU
Sukalyan Chattopadhyay	SINP
Sourav Sarkar	VECC
Dinesh K Srivastava	VECC

For application forms and other details  
please visit the school website which will be updated time to time.

Application Deadline: October 22<sup>nd</sup> 2012