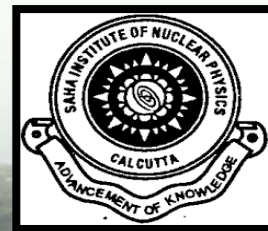


SERB

SCHOOL

on Nuclear Astrophysics



11th February 2019 – 2nd March 2019

-Sponsor-

Science and Engineering Research Board (SERB)
Department of Science and Technology (DST),
Government of India
New Delhi, India
<http://www.serb.gov.in/home.php>



-Organizer-

Saha Institute of Nuclear Physics
Kolkata, West Bengal
<http://www.saha.ac.in/web/>



This school is the first in the seventh cycle of Nuclear Physics Schools, organized to impart key concepts on various topics related to Nuclear Astrophysics. It primarily aims to train Ph.D. students in their early phase. A set of lectures on selected topics supported by tutorials and laboratory sessions will be arranged. Participants will get a chance to get hands-on experience with detectors, electronics, data analysis tools, and other experimental techniques. Special evening lectures by eminent experts will be arranged.

Aims and Objectives

- The students will attend introductory orientation courses on basics of Nuclear Structure, Reaction and experimental techniques.
- Orientation courses on Nuclear Astrophysics will be taught.
- Courses on experimental techniques specific for studying Nuclear Astrophysics problems will be arranged.
- The students will get training on software's/techniques for simulations, analysis and interpretation
- They will also learn essential details of small accelerators and their handling
- learn to design chambers and prepare targets
- get idea on basic safety features

Eventually perform a few small experiments : they will run the experiment round the clock, if needed; will collect data; will analyze on/offline data; Finally will write reports on the measurements, results and interpret.

Participation

Applications are invited from Research Scholars, Post Doctoral Fellows and Young Faculty Members from Institutions, Universities, Colleges, and young researchers from R & D Centres. A few bright and research motivated final year students of M.Sc./MTech may also be considered. The total number of participants in the school is restricted to about forty.

How to Apply

- ✓ Only through online process at: <https://indico.cern.ch/e/SERB2019>
- ✓ Recommendation letter (mandatory) from supervisor /relevant authority should be sent to: sinpserb.2019@gmail.com by **October 20th, 2018**

Support

All selected students will be provided to-and-fro 3rd AC train fare, boarding and lodging during the school. Participation during the full tenure of the school will be mandatory to get financial support.

Director of School

Director: Prof. Maitreyee Saha Sarkar
(maitrayee.sahasarkar@saha.ac.in)
Co-Director: Prof Subinit Roy (subinit.roy@saha.ac.in)

List of Speakers and Plan of the School

- Dr. Alok Chakraborty, VECC, Kolkata
 - Dr. Ambar Chatterjee, BARC, Mumbai
 - Prof Gautam Ganguly, CU, Kolkata
 - Prof Kamales Kar, SINP, Kolkata
 - Prof. Maitreyee Saha Sarkar, SINP, Kolkata
 - Dr. P. Sugathan, IUAC, Delhi
 - Prof Subinit Roy, SINP, Kolkata
 - Prof Ushasi Datta, SINP, Kolkata
- and other lecturers.

Tutorial sessions will be conducted by younger faculty members of Universities and Institutes of National repute.

Experiments will be set up and supervised by Faculty members, Scientific Officers, Ph.D. and Post Doctoral students.

In addition, in the evenings, eminent scientists will be invited to deliver colloquia level talks on recent and future directions in Nuclear Physics, Nuclear Astrophysics and related topics.

Classes will be held for six days a week (Monday to Saturday). Lectures will be delivered in the pre-lunch sessions. Lab sessions/Tutorial/special Lectures will be held in the afternoon/evening sessions.

Deadlines

- Application Starts : **September 20, 2018**
- Last date of application : **October 20, 2018**
- Screening Committee Meeting : **October 29, 2018**
- Intimation to participants : **November 01, 2018**
- Confirmation by participants : **November 10, 2018**

National Planning Committee

- Prof. Amit Roy, IACS, Kolkata, Chairman
- Prof. A.K. Jain, AINST, Amity University, NOIDA-Member
- Prof. R. Palit, TIFR, Mumbai- Member
- Prof. B.K. Agarwal, SINP, Kolkata - Member
- Dr. P. Sugathan, IUAC, New Delhi - Member
- Prof. Samit Mandal, Delhi University, Delhi-Member
- Prof. M. Balasubramaniam, Bharathiar University, Coimbatore-Member
- Dr. Amitava Roy, SERB, New Delhi- Program Coordinator
- Dr. Nilotpal Ghosh, SERB, New Delhi- Member Secretary

For further details CONTACT:

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Email: sinpserb.2019@gmail.com
Website: <https://indico.cern.ch/e/SERB2019>