



# SERB SCHOOL

ON

# OBSERVATIONAL ASTRONOMY



**25 OCTOBER – 14 NOVEMBER, 2017**

## About :

The SERB school on “Observational Astronomy” is being held for the first time in the north eastern part of India. The school aims at providing the participants with information and hands on training on different topics of observational astronomy. The school will cover a wide range of astronomy and astrophysics topics like optical, ultraviolet, infrared, X-ray, radio astronomy and the techniques involved in observational astronomy.

## Course topics :

- ❖ Observational data
- ❖ Telescopes and Instrumentation
- ❖ Sun and the Solar system
- ❖ Stellar structure and evolution
- ❖ Late stages of stellar evolution & compact objects
- ❖ Galaxies
- ❖ Interstellar Medium
- ❖ Data analysis lectures and hands on session

## Speakers:

- ❖ Eminent astrophysicists working in different parts of the country will be invited for lectures and interactive sessions.

## Apply online at:

<https://goo.gl/forms/sW450gJlg3IU718R2>

## Important dates :

Application deadline:

**15 July, 2017**

Selected participants list:

**25 July, 2017**

## Participation :

Applications are invited from research scholars, post-doctoral researchers, young faculty members from Universities, Institutes and Colleges having research experience in the above area for participation in the School. A few bright and research motivated M.Sc/M.Tech final year students may also be considered.

**Number of participants will be limited to 40**

Travel and local hospitality will be provided to all outstation participants (Masters - SL, Ph.D/Postdoc - 3AC, Faculty - 2AC).

## School Directors :

- ❖ **Prof. Ranjan Gupta**  
IUCAA, Pune
  - ❖ **Dr. Rupjyoti Gogoi**  
Tezpur University
- Email :  
[astrophytu@gmail.com](mailto:astrophytu@gmail.com)

Sponsored By:

**Science & Engineering Research Board**

Department of Science & Technology (DST)  
New Delhi, India.

Website: [www.serb.gov.in](http://www.serb.gov.in)

Organized By:

**Department of Physics**

Tezpur University

Napaam-784028, Assam.

Website: [www.tezu.ernet.in/dphy](http://www.tezu.ernet.in/dphy)



# SITARE



## Southampton IUCAA Training for Astronomical Research and Education 2 - 4 May, 2018

Sponsored by:  
Science and Technology Facilities  
Council (STFC), United Kingdom (UK)



SITARE is a programme initiated by the Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune and the University of Southampton, UK. The objective of the programme is to motivate talented students to pursue a research career in astronomy, astrophysics (A&A) and related areas. To introduce students to these areas, workshops are being conducted in several centres in India and in Nepal. The first such workshop is being organized at the **Department of Physics, Tezpur University** during May 2-4, 2018. In the workshop, lecturers from IUCAA, the University of Southampton and Tezpur University will introduce participants to exciting areas of A&A. A small number of selected participants from the workshop will have the opportunity to attend an advanced workshop in IUCAA later in the year. Further, a small number of students selected from the IUCAA workshop will be able to visit the University of Southampton for a short period, with all expenses covered by the programme.

A few selected students  
will get a chance to visit:

UNIVERSITY OF  
**Southampton**

Applications are invited only from 1st year M. Sc. Physics students studying in the North - Eastern States of India on or before **April 10, 2018**.

**Apply online at :** <https://goo.gl/forms/YfBYLLG1Z0I7EXSI2>

Selected students from outside Tezpur will be provided their travel expenses (by bus or train upto AC III tier by the shortest route) and their stay and meals will be covered. Local students will be provided with meals during the day.

**Organized by:**

Department of Physics, Tezpur University  
and the Inter-University Centre for  
Astronomy and Astrophysics (IUCAA), Pune.

For queries please write to:  
[astrophytu@gmail.com](mailto:astrophytu@gmail.com)

**Event coordinators:**

IUCAA:

Prof. Ajit Kembhavi

Prof. Ranjaev Misra

Tezpur University:

Dr. Gazi Ameen Ahmed

Dr. Rupjyoti Gogoi



Webinar organised by,  
IUCAA Centre for Astronomy Research & Development, Tezpur University  
&  
Department of Physics, Tezpur University

Date: November 9th, 2020

Time: 03:30 pm

Speaker: **Prof. Somak Raychaudhury**

Somak Raychaudhury is the Director of the Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune. He graduated from Presidency College, University of Calcutta, with further studies at the University of Oxford, UK. After his PhD from the University of Cambridge, UK, he worked at the Harvard-Smithsonian Centre for Astrophysics, USA, where he also was part of the team that built the Chandra X-Ray Observatory for NASA. After teaching for over a decade at the University of Birmingham, UK, he returned to India as Head of Physics and Dean of Sciences at Presidency University, Kolkata, before he became Director of IUCAA. His research involves a wide range of topics in Cosmology and Astrophysics, from the ground and from Space.

Title: **Fantastic black holes and where to find them**

Black holes are the most extreme environments in nature, where the force of gravity is so strong that even light cannot escape. Since we observe the rest of the Universe through light, black holes must be directly unobservable. Theories of stellar evolution predict that black holes of various masses must be everywhere in the Universe. In the last decade, direct evidence of black holes has been found in many ways. This year's Nobel prize in Physics has been awarded for both theoretical work on understanding these exotic objects (Roger Penrose) and detecting and characterising the supermassive black hole at the core of our Galaxy (Andrea Ghez and Reinhard Genzel). The speaker will discuss their work, and the connection with past, present and future research and opportunities in India.

**Organising Team**

*Prof. Nilakshi Das*

Head, Department of Physics

*Dr. Rupjyoti Gogoi*

Coordinator, ICARD, Tezpur University

*Dr. Moon Moon Devi*

Webinar Coordinator

Members:

All faculty members,  
Department of Physics,  
Tezpur University

Email: [astrophytu@gmail.com](mailto:astrophytu@gmail.com)

Join using : [meet.google.com/rny-npea-acm](https://meet.google.com/rny-npea-acm)

Watch online : <https://youtu.be/YOE2hvTob-s>



Webinar organised by,  
IUCAA Centre for Astronomy Research & Development, Tezpur University  
&  
Department of Physics, Tezpur University

Date:  
5<sup>th</sup> Nov,  
2020  
Time:  
03:30 pm

Speaker: **Dr. Gautam Saikia**

Dr. Gautam is an observational astrophysicist working as a post-doctoral researcher at the Indian Institute of Science (IISc), Bengaluru, India. He finished his Masters and PhD in Physics from Tezpur University.

**Title: Exploring the life and times of Cosmic Dust in our local universe**

The Milky Way Galaxy is home to not only us, but billions of stars we see in the night sky. Each astronomical object, such as a star, within any galaxy emits radiation across multiple wavelength bands of the electromagnetic spectrum. The inter-stellar medium of our Galaxy is ~99% gas and ~1% dust, by mass. In this talk, we will take a closer look at how dust, even with such tiny fraction, plays an important role in controlling our view of the surrounding universe. We will also try to understand why multi-wavelength astronomy is the need of the hour, such that we gather a complete understanding of various astrophysical phenomenon occurring around us.

Join using : [meet.google.com/ikc-wczk-pgi](https://meet.google.com/ikc-wczk-pgi)

Watch online : <https://youtu.be/LzA0J-4zhus>

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Members:  
All faculty members,  
Department of Physics,  
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Email: [astrophytu@gmail.com](mailto:astrophytu@gmail.com)



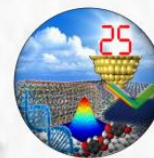
# CONDENSED MATTER DAYS - 2017

(August 29-31, 2017)

to be organized by

Department of Physics, Tezpur University

Napaam-784028, Assam, India



The 25<sup>th</sup> edition of the national conference Condensed Matter Days - "CMDAYS-2017" will be held at Department of Physics, Tezpur University, PO: Napaam, Assam, India. CMDAYS provides a unique platform for the young researchers and domain experts to discuss, share and present their works related to topics in the field of condensed matter physics. It emphasizes visibility of the works of young researchers in this field.

## Topics to be covered....

- Biomaterials and Bioconjugates
- Disordered Systems and Phase Transitions
- Dielectrics and Ferroelectrics
- Magnetism and Spintronic Systems
- Mesoscopic Phenomena and Junctions
- Nanomaterials and Nanocomposites
- Nonlinear dynamics and Chaos
- Photocatalysis and Photovoltaics
- Photonics and Plasmonics
- Semiconductors and Optoelectronics
- Soft Condensed Matter
- Strongly Correlated Systems
- Surface and Interface Phenomena
- Superconductivity and Critical Phenomena
- Thin Films and Devices
- Interdisciplinary topics relevant to condensed matter systems

## Call for papers

Participants are requested to submit their abstracts as a single attached file at [cmdays2017@gmail.com](mailto:cmdays2017@gmail.com) on or before 15<sup>th</sup> July 2017. A template can also be found under the heading "Upcoming Events" by logging on to: [www.tezu.ernet.in](http://www.tezu.ernet.in)

There will be a special session on "Topological Insulators". Participants intending to send papers in this category should mention "Abstract for special session" in the subject heading while sending their abstracts.

## Important dates

Deadline for Abstract

submission : 15<sup>th</sup> July, 2017

Intimation of selected

participants: 25<sup>th</sup> July, 2017

Deadline for Registration form

submission: 10<sup>th</sup> August, 2017

## Registration fees

Students and Research Scholars:

1000 INR

Faculty and Postdocs: 1500 INR

## Accommodation

Accommodation will be provided on request and on payment basis at Students' hostel or University guest house located in the campus. Request for accommodation should be made in advance along with mentioning in duly filled in registration form.

## Travel Support

Subject to availability of fund, research scholars will be given to-and-fro rail/bus fare by the shortest route as per rules.

Convener: Dr. D. Mohanta

Co-Convener: Dr. Ritupan Sarmah

## Chief Patron

Vice Chancellor,  
Tezpur University

## Central Organizing Committee

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Rupjyoti Gogoi

Rajib Biswas

Shyamal K. Das

## Contact details

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