

## Registration Form

**Workshop on  
Gravitation and Gravitational Waves  
7-13 October, 2018  
Department of Physics,  
Assam University, Silchar, Assam**

Name (in block letters) : \_\_\_\_\_

Gender : \_\_\_\_\_

Date of Birth (dd/mm/yyyy) : \_\_\_\_\_

Designation : M.Sc. Student / Ph.D Student / Faculty

Affiliation : \_\_\_\_\_

Mailing Address : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone : \_\_\_\_\_ e-mail : \_\_\_\_\_

Accommodation required : Yes/No.

If Yes, provide details of arrival and departure : \_\_\_\_\_

Arrival Date : \_\_\_\_\_ Arrival Time : \_\_\_\_\_

Departure Date : \_\_\_\_\_ Departure Time : \_\_\_\_\_

Date :

Place :

Signature of Participant

Signature and Seal of Forwarding Authority : \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### **Organising Committee**

- ◆ **Prof D C Nath**, VC, AUS, Patron
- ◆ **Prof A K Sen**, Dean, AESOPS, AUS, Chairman
- ◆ **Prof A Deshamukhya**, Physics, AUS, Coordinator
- ◆ **Prof E S Rajagopal**, INSA Emeritus Scientist, ICTS Bangalore, Co-coordinator
- ◆ **Prof B I Sharma**, Physics, AUS, Member
- ◆ **Dr H S Das**, Physics, AUS, Member
- ◆ **Dr U Sarkar**, Physics, AUS, Member
- ◆ **Dr A S Devi**, Physics, AUS, Member
- ◆ **Dr P K Shukla**, Physics, AUS, Member
- ◆ **Dr B Mohanta**, Physics, AUS, Member
- ◆ **Mr S Biswas**, Physics, AUS, Member
- ◆ **Mr M Baro**, Physics, AUS, Member
- ◆ **Dr P Dev Sharma**, Computer Science, AUS, Member
- ◆ **Dr S Sengupta**, Mathematics, AUS, Member
- ◆ **Dr J Gogoi**, Statistics, AUS, Member
- ◆ **Prof P C Paul**, Chemistry, AUS, Member

### **Sponsored by:**



IUCAA, Pune

**Workshop on  
GRAVITATION AND GRAVITATIONAL WAVES  
7-13 October, 2018**



**DEPARTMENT OF PHYSICS,  
ASSAM UNIVERSITY,  
SILCHAR, ASSAM**

The LIGO discoveries have inched a new era in astronomy. It's a great breakthrough in the history of physics. For the first time they have allowed us to 'hear' the universe instead of 'observing' it. This, in fact will allow us to look for an object which does not radiate light. The gravitational waves from Big Bang would tell a little more about how the universe formed. Waves from Blackholes and Dark Matter will definitely give new insights not only about the origin and constituents of the Universe but also about the events that produces supernovae, neutron stars etc. Dark matter search will also gain new direction through this new window. In addition, from technological point of view, LIGO itself is a big leap forward.

Gravitational waves are an important prediction of Einstein's general theory of relativity published a century ago. Because they change the way we understand the nature of space, time and gravitation, it fundamentally changes the perception of how we fit into the Universe, as a species as well as individuals. The direct detection of gravitational waves once again have validated Einstein's General Theory of Relativity. In short, this is an exciting field of research that has been opened up both from theoretical, observational as technical point of view. The workshop aims to introduce M. Sc. and first year Ph.D. students as well as faculty members to the world of gravitational wave astronomy.

### List of Speakers:

- ◆ Prof S Dhurandhar, F.A.Sc., F.N.A.Sc., IUCAA, Pune
- ◆ Prof Bala Iyer, ICTS, Bangalore
- ◆ Dr S Mitra, IUCAA, Pune
- ◆ Prof A K Mohanty, Director, SINP, Kolkata
- ◆ Prof A Parameshwaran, ICTS, Bangalore
- ◆ Prof M Sami, F.A.Sc., F.N.A.Sc., Director, CTP, JMI, New Delhi
- ◆ Prof A K Sen, Assam University, Silchar
- ◆ Prof S Wadia, F.A.Sc., F.N.A.Sc., F.T.W.A.S, Emeritus Professor, ICTS, Bangalore

**HOW TO APPLY :** Interested candidates are requested to fill in the prescribed registration form and send the same (duly forwarded by the head of the department/institution) to the coordinator. A nominal registration fee of Rs. 100 will be collected from the participants to meet a part of the local expenses.

Travelling Cost by train (AC 3 tier) / bus will be reimbursed on production of valid documents. Working lunch along with tea and snacks will be provided at the venue. A few in-campus accommodations may be provided on prior request.

Please email your filled in forms at :

[gravityaus2018@gmail.com](mailto:gravityaus2018@gmail.com)

with a copy to : [atri.deshamukhya@gmail.com](mailto:atri.deshamukhya@gmail.com)

**LAST DATE OF SUBMISSION OF APPLICATION :**

**25th September 2018**



Assam University is a Central University established in 1994. It is located in the picturesque Barak Valley of Assam, 23 kms from Silchar Town. The Department of Physics was established in 1996 and at present offers M.Sc. M.Phil and Ph.D programmes.