



NAR-2024

Online Workshop on
Numerical and Analytical Relativity
DEPARTMENT OF APPLIED SCIENCES
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY ALLAHABAD

OBJECTIVE

The objective of this workshop is to equip young professionals and researchers with modern analytical and computational methods in the field of General Relativity. Participants will gain valuable insights on recent developments in gravitational physics from the leading global experts.

TOPICS TO BE COVERED

- Classical and semiclassical Black Holes
- Bondi-Sachs Formalism with xAct
- Ultra Compact Objects and Boson Stars
- Numerical Relativity
- Computational Astrophysics
- Black Holes in Strong-field Gravity
- Black Hole Perturbations
- Machine Learning with Mathematica

SPEAKERS

- Dr. Béatrice Bonga* (TBC), Radboud University, Netherlands
- Dr. Antonio De Felice, YITP, Kyoto University, Japan
- Prof. Lavinia Heisenberg, Heidelberg University, Germany
- Prof. Carlos Herdeiro, University of Aveiro, Portugal
- Dr. Sitender P Kashyap, Chennai Mathematical Institute
- Dr. Prayush Kumar, ICTS-TIFR Bengaluru
- John McNally, Wolfram Research Inc., USA
- Dr. Vaishak Prasad, ICTS-TIFR Bengaluru
- Dr. Sudipta Sarkar, IIT Gandhinagar
- Prof. Tapobrata Sarkar, IIT Kanpur
- Dr. Suneeta Vardarajan, IISER Pune
- Prof. Amitabh Virmani, Chennai Mathematical Institute

ORGANIZERS

PATRON

Prof. Mukul S. Sutaone
Director, IIIT Allahabad

CHAIRPERSON

Dr. Pramod Kumar
Head, Department of Applied Sciences
IIIT Allahabad

ORGANIZING COMMITTEE

Dr. Srijit Bhattacharjee (Convener), IIIT Allahabad
Dr. Seema Kushwaha, IIIT Allahabad
Dr. Akhilesh Tiwari, IIIT Allahabad
Dr. Upendra Kumar, IIIT Allahabad
Prof. Anjan Ananda Sen, CTP, Jamia Millia Islamia

WORKSHOP COORDINATORS

Subhodeep Sarkar
Divyesh Solanki
Deepak Pal

WHEN

March 20 - 22, 2024

REGISTRATION FEE

800 INR + GST (For Nationals)
50 USD (For Internationals)

REGISTER ONLINE

Please visit
<https://nar24.iiita.ac.in/>

NOTE

- The Zoom link will be sent to registered participants via email.
- All registered participants will receive a certificate of participation.
- For any queries, contact: nar24@iiita.ac.in