



JAIPUR NATIONAL UNIVERSITY, JAIPUR



in association with



Center for Excellence in Quantum Science (CEQS)

Indian Association of Physics Teachers (IAPT), RC-06, Rajasthan Chapter

&

National Academy of Sciences India (NASI), Rajasthan Chapter

organize

ONE DAY SEMINAR ON “Discovery & Detection of Gravitational Waves”

September 14, 2024

PATRON-IN-CHIEF



2017 Physics NOBEL Laureate

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**Professor of Physics (Emeritus)
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PROF. T. SOURADEEP
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Bangalore**



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**Director, IUAC
New Delhi**



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One Day Seminar on

“Discovery & Detection of Gravitational Waves”

Date: September 14, 2024

Aim: This seminar is organized to commemorate the historic detection of Gravitational Waves on September 14, 2015, a discovery that validated Einstein’s General Theory of Relativity. This groundbreaking achievement was realized at the Laser Interferometer Gravitational Wave Observatory (LIGO) in the USA. The key contributors to this discovery, R. Weiss, B. C. Barish, and K. S. Thorne, were awarded the Nobel Prize in Physics in 2017 “for decisive contributions to the LIGO detector and the observation of gravitational waves.” This seminar features lectures by eminent speakers aimed at enlightening young students and faculty members on the significance of Gravitational Waves and their detection in fundamental physics.

Topics:

1. Waves, Interference, Michelson's Interferometer: An in-depth exploration of wave properties, interference phenomena, and the working principles of Michelson's interferometer.
2. Michelson-Morley Experiment and Foundation for Einstein's Special Theory of Relativity: Understanding the pivotal Michelson-Morley experiment and its critical role in laying the groundwork for Einstein's Special Theory of Relativity.
3. Dark Energy, Gravitational Waves, and General Theory of Relativity: A comprehensive discussion on dark energy, the nature of gravitational waves, and how they fit into the framework of Einstein's General Theory of Relativity.
4. Discovery of Gravitational Waves and its Importance in the Verification of General Theory of Relativity: Insights into the monumental discovery of gravitational waves and its profound implications for verifying the General Theory of Relativity.

Join us on September 14, 2024, to delve into the fascinating world of gravitational waves and celebrate the scientific achievements that have reshaped our understanding of the universe. Speakers will be renowned experts in the field who will share their insights and latest research on gravitational waves.

We look forward to your participation!

Use link to register <https://forms.gle/86eoK5W6bhNUS9ZQ6>

Contact:

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