



CENTRE FOR THEORETICAL PHYSICS
JAMIA MILLIA ISLAMIA, NEW DELHI
**A COURSE ON GRAVITATIONAL WAVE
ASTRONOMY**



November 23-29, 2023

@ Centre for Theoretical Physics
Jamia Millia Islamia, New Delhi-110025

INFORMATION:- <https://gian.iitkgp.ac.in/GREGN/index>

**COURSE BY WORLD RENOWNED SCIENTIST
PROFESSOR ANZHONG WANG, USA**

FEES

Participants from abroad: US \$800

Industry/ Research Organizations: INR 10000/-

Academic Institutions: Faculty members: INR 3500/-

Ph. D. Scholars: INR 1500/- MSc Students: INR 1000/-

One time Registration @

<https://gian.iitkgp.ac.in/GREGN/index>

(Registration Fee INR 500)

COURSE FEES PAYMENT

The DD should be prepared in favour of "Registrar, Jamia Millia Islamia", Payable at New Delhi and submit to Centre for Theoretical Physics, JMI.

COURSE OBJECTIVES

The course will present participants with the foundational principles underpinning the General Theory of Relativity (GR) and its predictions concerning the existence of Gravitational Waves (GW). The participants will understand the derivation and theoretical characteristics of exact solutions for black holes within GR. This exploration encompasses grasping concepts such as Edington-Finkelstein Coordinates and Event Horizons, comprehending the Kruskal Extension of the Schwarzschild Solution, and analyzing the inherent Singularities in the Schwarzschild Solution. The course will emphasize the significance of Penrose Diagrams and the maximal analytical extensions within spherically symmetric space-times. Participants will understand Linearized Plane GWs, gaining insights into the intricate facets of Plane GW polarization.

COURSE CORDINATOR

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GIAN-CORDINATOR FOR JMI

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