



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

November 23-28, 2023

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

INFORMATION:- <https://gian.iitkqp.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.iitkqp.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.

Dr. Wang is extensively engaged in innovative research encompassing gravitational wave physics, cosmology, black hole physics, quantum cosmology in the early universe, and the origins and nature of dark matter and energy. Having joined the Baylor faculty in August 2003, diverse teaching experiences have marked Dr. Wang's academic journey. Before his tenure at Baylor, he held teaching positions at the State University of Rio de Janeiro (1996-2003), the National Observatory in Rio de Janeiro (1994-1996), and the State University of Sao Paulo at Campinas (1992-1994). He also enriched his research insights as a postdoctoral research fellow at the Universities of Crete and Ioannina.

He completed his M.Sc. in theoretical physics at Northeast Normal University before achieving his PhD from the University of Ioannina. His academic pursuits have taken him across the globe, fostering collaborations with esteemed colleagues in Brazil, China, Japan, the United Kingdom, and the United States.

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

Prof. Sushant G. Ghosh
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GIAN-CORDINATOR FOR JMI

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Finance & Accounts Office

Jamia Millia Islamia

New Delhi-25

Bank Details for Electronic Clearing Service (ECS)

Institute Name :	JAMIA MILIA ISLAMIA
Beneficiary Name, A/c Name	JMI-Seminar and Symposium
Name of Bank	Indian Bank
Branch	Jamia Millia Islamia
Branch Code	01622
Saving Bank A/c No.	6767690486
IFSC - CODE :	IDIB000J029
MICR - CODE :	110019041
SWIFT – CODE	IDIBINBBTSY
ZONE :	DELHI
Branch Address :	Moulana Mohd. Ali JauharMarg Sports Complex (Bhopal Ground) Jamia Nagar
PIN :	110025
District :	NEW DELHI
State :	DELHI
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Asstt. Finance Officer (P)
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JAMIA MILLIA ISLAMIA