

RABINDRA MAHAVIDYALAYA

Champadanga, Hooghly



Date: 02.07.2021
Friday, 7:30 pm

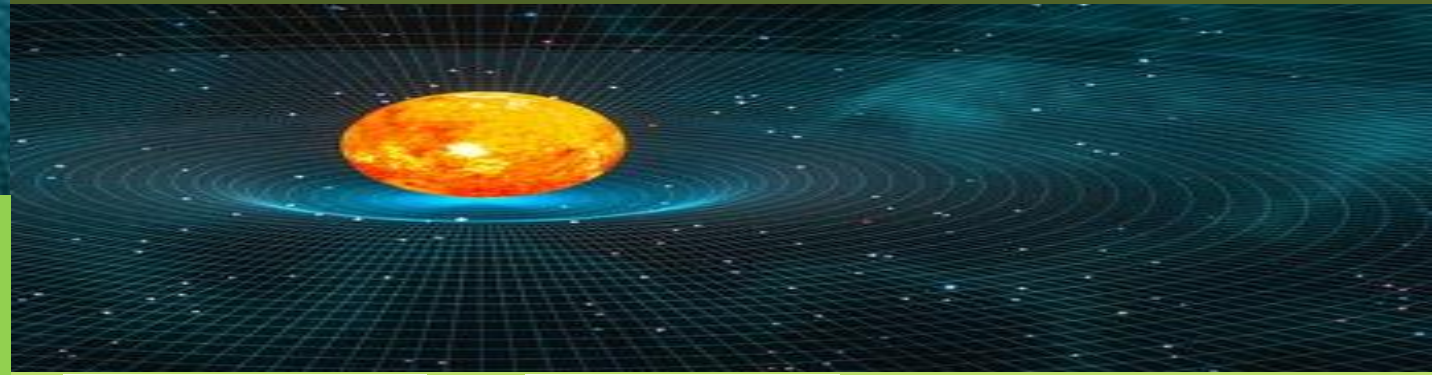
One Day Special Lecture

Organized by

Department of Mathematics & Physics
in Collaboration with IQAC & IT Sub-Committee

Topic

Gravitational Waves: The new messenger of the Universe



Speaker

Dr. Sarbari Guha,
Associate Professor,
Department of Physics,
St. Xavier's College,
Kolkata



Dr. Prasanta Bhattacharyya
Principal
Rabindra Mahavidyalaya



Prof. Tanmay Bandyopadhyay
Coordinator IQAC
Rabindra Mahavidyalaya

Host

Dr. Shuvojit Mondal
Assistant Professor & Head,
Department of Mathematics,
Rabindra Mahavidyalaya

IT Support:

Dr. Rabiul Alam
Convener, IT Sub-committee
Rabindra Mahavidyalaya

[Registration Link \(click\)](#)

[WhatsApp Link](#)

[YouTube Link](#)

Topic: Gravitational Waves: The new messenger of the Universe

Speaker - **Dr. Sarbari Guha**, Associate Professor, Department of Physics, St. Xavier's College, Kolkata.

Abstract:

According to Newton's theory of gravity, whenever a mass changes position, the entire gravitational field throughout the universe changes instantaneously and all gravitational interactions also change accordingly. But Einstein's Theory of General Relativity asserts that no information can travel faster than the speed of light in vacuum, including information on the positions of masses in the universe, which is communicated through the gravitational field. Thus General Relativity predicts that any change in a gravitational field will travel through the universe at the speed of light, and these changes in the gravitational field are nothing but gravitational waves. In this talk, we will try to gather a bird's eye view of the evolution of the concept of gravity and gravitational waves, and end with a discussion of the emerging field of gravitational-wave astronomy.

Programme Schedule, 02 July 2021 (Duration: 1 Hr 30 Mints)

7:30 pm- 7: 32pm: Welcome address by (**Dr. Uday kumar Khan, Associate Professor & Head, Department of Physics, Rabindra Mahavidyalaya**)

7:33pm-7:38pm: Inaugural Speech by Principal (**Dr. Prasanta Bhattacharyya, Principal, Rabindra Mahavidyalaya**)

7:39pm-7:44pm: Introductory Speech by IQAC Co-ordinator (**Prof. Tanmay Bandyopadhyay, IQAC Co-ordinator, Rabindra Mahavidyalaya**)

7:45pm- 8:35pm: Speaker (**Dr. Sarbari Guha, Associate Professor, Department of Physics, St. Xavier's College, Kolkata.**)

8:36pm- 8:54pm: Question & Answer session by (**Mr. Somnath Pal, SACT, Department of Physics, Rabindra Mahavidyalaya**)

8:55pm- 9:00pm: Vote of Thanks by (**Dr. Krishna Kumar Mondal, Assistant Professor, Department of Mathematics, Rabindra Mahavidyalaya**)