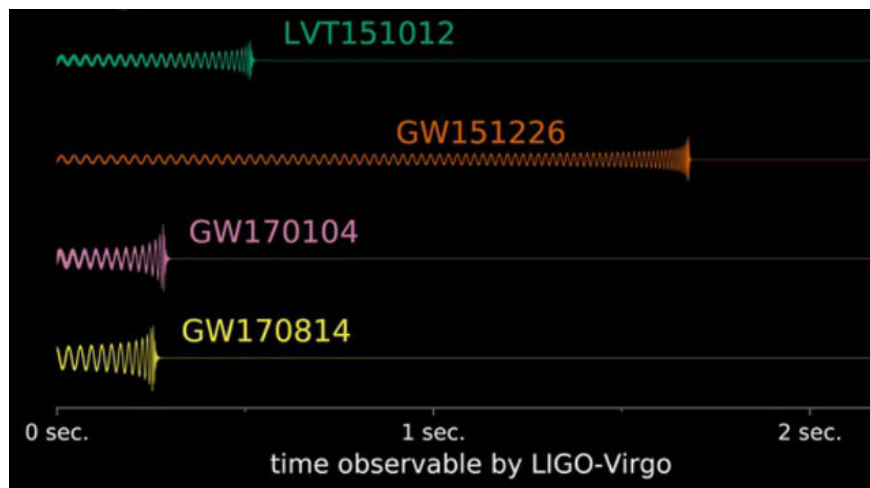


# Gravity wave detectors will be built in India by 2025

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An attractive LIGO wave detector for measuring ripples in space and time will be built in India by 2025, collaborating with universities across the globe. New device The new Interferometer astronomical wave detector (LIGO) will complement the two already active in the US.

The LIGO detector discovered the first gravitational waves produced by two giant black holes merged last year. This study won the Nobel Prize in Physics this year. According to Somak Raychaudhury, director of the Millennium Astronomy and Geophysics Center (IUCAA), the new detector project in India has been selected, and construction will begin soon. However, this page has not been disclosed in detail.



"When the detector is complete by 2025, IUCAA will run it," Raychaudhury told PTI. This project is funded by the Science and Technology Foundation (STFC) through Newton-Bhabha project on LIGO. According to Raychaudhury, the Raja Ramanna Center for Advanced Technology at Indore and Ahmedabad's Plasma Research Institute will be responsible for building different parts of the system.

The mirrors and detectors needed to build the system will be sent from LIGO collaborators in the US. "They used to build LIGO detectors in the United States, two of which were installed. They wanted to install the third in another part of the earth," Raychaudhury said. A third LIGO detector will help identify the source of other gravitational waves to be discovered in the future.

The existence of these LIGO waves was previously predicted by German scientist Albert Einstein 100 years ago in the theory of relativity. These ripples move at the speed of light through the universe, carrying information about their origin, as well as invaluable clues to the nature of gravity.

Raychaudhury said: *"With the position of the third advanced LIGO detector in India, it will meet the essential needs for potential science students and gravitational wave researchers, infrastructure construction. and establishing technology and data pipeline LIGO India Project will help the Indian scientific community become one of the pioneers in astronomical research specializing in gravitational waves. "*

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