

**Events**[Current Events](#)[Lectures](#)[Events Archive](#)

Other - LSU Science Cafe

Detecting the Gravitational Wave: Listening to the Universe from LIGO Livingston**Gabriela Gonzalez, LSU**

Professor, Physics & Astronomy

Chelsea's Cafe Restaurant
July 28, 2015 - 06:00 pm**Abstract:**

Nearly 100 years ago, Albert Einstein showed that his theory of General Relativity predicted that space-time would be warped by "gravitational waves," produced, for example, by the merging of neutron stars in the birth of a new black hole.

This year in Livingston, La., the Laser Interferometer Gravitational Wave Observatory, or LIGO-Livingston, and its sister observatory, LIGO Hanford in Washington state, will begin collecting data with brand new equipment designed to detect these elusive waves in space and time. Detecting these waves will open a new window on the violent astrophysical events happening throughout the universe trillions of miles away from Earth. Gabriela González, LSU Department of Physics & Astronomy professor and LIGO spokesperson will provide out-of-this-world insight into working on this astronomical scientific breakthrough: the first direct detection of gravitational waves.

Speaker's Bio:

As always, doors open at 5 p.m. for free food and networking, and the talk will start at 6 p.m. Remember, people of all ages are welcome, so please spread the word and join us for a fun and informative night!

<https://www.facebook.com/events/1025642660793477/> or 225-578-3870 for details.

This lecture has refreshments @ 05:00 pm**This lecture has a reception @ 05:00 pm**