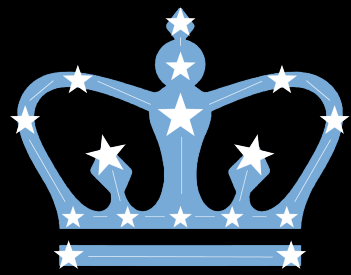


COLUMBIA ASTRONOMY OUTREACH PRESENTS:



STARGAZING & LECTURE SERIES

Black Hole Duet: Hearing the universe for the first time

Maria Charisi

Friday, October 7th, 8:00PM

Pupin Hall, Columbia University

RINGDOWN

INSPIRAL

MERGER

HANFORD, WASHINGTON
LIVINGSTON, LOUISIANA

A hundred years after Einstein's theory of Relativity and the prediction of gravitational waves, we have detected, for the first time, tiny ripples in space-time from two colliding black holes in the distant universe. This amazing breakthrough of modern physics and engineering opens a completely new window into the cosmos. I will discuss the exciting first discovery and the bright future of gravitational-wave astronomy.

These are free lectures at a public level followed by guided stargazing with telescopes (weather permitting). All events are held at Pupin Hall at Columbia University. No reservations are needed. Lectures are 30 minutes, stargazing lasts 90 minutes. Stay only as long as you want.

For directions, weather updates and more information, please visit:

<http://outreach.astro.columbia.edu>