"Ripples of Gravity, Flashes of Light" On Aug 17th 2017 the LIGO and Virgo Observatories made the first ever detection of gravitational waves from the merger of two neutron stars 130 million light years distant. This event was also observed across the entire electromagnetic spectrum, from gamma rays to radio waves, and launched an exciting new era for multi-messenger astronomy.



The global network of gravitational-wave observatories helped to pin-point the sky position of GW170817 to within only 28 square degrees – allowing optical telescopes to quickly identify its host galaxy, and the kilonova that formed its aftermath.

Together, these first ever observations of gravity and light from the same cosmic event have brought spectacular

Credit: LIGO; Virgo; NASA; Leo Singer



new insights to many fundamental questions: from the expanding universe and the speed of gravity to the cosmic origin of precious elements like platinum and gold.

To find out more about the amazing science and technology of the Laser Interferometer Gravitational-Wave Observatory, visit our website at:

www.ligo.org



Credit: National Science Foundation; LIGO; SonomaStateUniversity; A.Simonnet.

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