

Colloqui della Classe di Scienze

Anno Accademico 2017/2018

Sala Stemmi | Palazzo della Carovana
Scuola Normale Superiore
Piazza dei Cavalieri, 7 - PISA

7 MARZO 2018
ore 15.00

GIOVANNI LOSURDO

Istituto Nazionale di Fisica Nucleare, Pisa

*THE UNIVERSE SEEN THROUGH A NEW WINDOW
GRAVITATIONAL WAVE OBSERVATIONS:
ACHIEVEMENTS AND PERSPECTIVES*

ABSTRACT:

The LIGO-Virgo network of gravitational wave detectors has opened a new way of exploring the Universe: the recent multi-messenger observation of the coalescence of two neutron stars and its aftermath has been a scientific breakthrough.

In this Colloquium the physics results obtained in about two years by LIGO, Virgo and their partners will be reviewed. Moreover, the history of these detectors will be outlined, and future prospects for the field will be addressed.

