Colloqui della Classe di Scienze

Anno Accademico 2026/2027

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

2 DECEMBER 2026
h 3.00 p.m.

MICHELE MAGGIORE

Université de Genève

EXPLORING THE UNIVERSE WITH GRAVITATIONAL WAVES

ABSTRACT:
The first direct detection of the gravitational wave from a binary black hole coalescence, in 2015, and the subsequent observation of a binary neutron star coalescence and its associated electromagnetic signal in 2017, have marked a milestone in modern physics. Nowadays, the observation of the coalescence of binary systems made of black holes or neutron stars is performed routinely, and the LIGO/Virgo/KAGRA collaboration has detected several hundreds of events. We will discuss the impact of these observations on fundamental physics, astrophysics and cosmology, and how the new generation of detectors, such as the Einstein Telescope in Europe, will allow us to make a qualitative jump in our understanding of the Universe.
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SCUOLA NORMALE SUPERIORE

in presence and also available on Zoom
Passcode: 346263

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