Contribution ID: **125** Type: **Oral presentation**

Searches for high energy neutrinos and gravitational waves: recent results in data from the LIGO and Virgo detectors and expectations for the Advanced Detector Era

Thursday, 29 October 2015 18:25 (15 minutes)

Many of the astrophysical sources and violent phenomena observed in our Universe are potential emitters of gravitational waves and high energy neutrinos. Both these probes are
cosmic messengers that may escape much denser media than photons. LIGO and Virgo scientific collaborations have carried out joint searches for gravitational waves and high energy neutrinos from IceCube and ANTARES neutrino detectors. I report the results of these coincident analyses and present plans and expectations for the Advanced Detector Era.

Primary author: Dr IRENE, Di Palma (University of Rome, "La Sapienza")

Presenter: Dr IRENE, Di Palma (University of Rome, "La Sapienza")

Session Classification: Neutrinos

Track Classification: Neutrino physics