



Contribution ID: 88

Type: plenary

Observations of gravitational waves from binary black hole mergers

Wednesday, 14 September 2016 09:00 (1 hour)

Detection of gravitational waves from mergers of two black holes is one of the greatest discoveries of this century. It will open a new window on the Universe. I shall describe observations of these signals in the data of LIGO detectors by consortium of LIGO Scientific Collaboration and Virgo Collaboration. I shall present several aspects of this discovery: gravitational wave detectors, signal modeling and data analysis. I shall mention the follow-up observations of this event by radio, optical, near-infrared, X-ray, and gamma-ray wavelengths with ground- and space-based facilities. I shall describe consequences of this result for physics of fundamental interactions.

Summary

Primary author: Prof. KROLAK, Andrzej (National Center for Nuclear Studies)

Presenter: Prof. KROLAK, Andrzej (National Center for Nuclear Studies)

Session Classification: Plenary session III