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## **Invited Talk: Learning about black holes and neutron stars using ground-based gravitational-wave detectors**

*Saturday, June 28, 2014 12:00 PM (30 minutes)*

In the next 5 years, ground-based interferometers such as advanced LIGO, Virgo and KAGRA, are likely to provide the first direct detections of gravitational waves. This will constitute a major scientific discovery, as it will permit a new kind of observation of the cosmos, quite different from today's electromagnetic and particle observations. In this talk I will review the current effort at developing accurate waveform models, so that we can take full advantage of the sensitivity of the detectors and extract unique information upon detection of gravitational waves from coalescing binary systems composed of black holes and/or neutron stars.

**Presenter:** Prof. BUONANNO, Alessandra

**Session Classification:** Plenary Talks