



Venerdì 15 Aprile 2016, ore 14:30, **Aula Magna**

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Gravitational-wave detection: status and perspectives

The detection of gravitational waves, predicted exactly 100 years ago by Albert Einstein, opens a totally new field of the universe exploration and will have a deep impact on the future of astrophysics observations. On September 14, 2015 at 09:50:45 UTC, for the first time a transient gravitational-wave signal has been observed. The signal matches the waveform predicted by general relativity for the inspiral and merger of a pair of black holes and the ringdown of the resulting single black hole. The talk will discuss the path that led to the discovery and the new perspectives opened in the field.