

## **Challenges in data management and distribution within the terrestrial network of gravitational wave detectors - P. Astone (Invited)**

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The recent discovery of Gravitational Waves (GWs) from merging black holes and inspiraling neutron stars, an event seen as GWs, short gamma-ray burst and subsequent kilonova by space and ground-based observatories, have marked the beginning of multimessenger astronomy.

LIGO and Virgo collaborations have organized prompt low-latency analyses for transient (limited time duration) signals, offline analyses for longer duration signals or for refined analysis on transient signals, and efficient methods to distribute the relevant information to interested parties. GW raw data from these discoveries, together with instructions, examples and analysis codes, is publicly available. In this talk I will describe the data management infrastructure, from production to distribution, for the different classes of GW signals we are presently looking for.

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