



ID de Contribution: 29

Type: **Contributed talk**

All-Sky Searches for Compact Binary Mergers: The Engines of Detection

jeudi 1 juin 2017 11:55 (15 minutes)

Searches for GW from compact binary mergers using waveform templates have already successfully detected several binary black hole signals and are set to yield further discoveries as the network of Advanced detectors matures. We describe how the binary search pipelines used by LIGO-Virgo have broadened the range of systems they target, while becoming more robust against detector noise and thus increasing sensitivity for the sources considered in LIGO's first observing run. Modelling of signal populations plays an increasing role in maintaining the sensitivity of all-sky searches.

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Classification de Session: New Data Analysis Methods