

## Cosmology with gravitational waves and galaxy catalogues

GW170817 with its coincident optical counterpart has led to a first “standard siren” measurement of the Hubble constant independent of the cosmological distance ladder. The Schutz “statistical” method using galaxy catalogues is also being applied to a few detections. In this talk we go over the prospects of gravitational-wave cosmology with galaxy catalogues in the upcoming runs of the Advanced LIGO-Virgo detector network and discuss some implications for future generations of proposed detectors.

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