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Bright and dark sirens: gravitational-wave cosmology with or without electromagnetic counterparts

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GW170817 with its coincident optical counterpart led to a first “standard siren” measurement of the Hubble constant independent of the cosmological distance ladder. The Schutz “statistical” method with galaxy catalogues, which is expected to work in the absence of uniquely identified hosts, has also started bringing in its first estimates. In this talk we report the latest results of the gravitational-wave measurement of the Hubble constant and discuss the prospects with observations during the upcoming runs of the Advanced LIGO-Virgo detector network.

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