

Gravitational wave standard sirens: cosmological constraints from LVK observations and future prospects with LISA

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Compact binary systems that emit detectable gravitational waves, such as binary black holes and binary neutron stars, can be used as “standard sirens” to constrain cosmological parameters. This talk will review cosmological results obtained from the most recent gravitational wave observations, with a focus on the most stringent constraints produced by the LIGO-Virgo-KAGRA Collaboration, while also discussing forecasts with future gravitational wave detectors, such as the Laser Interferometer Space Antenna.

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