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Gravitational-Wave Standard Sirens: Status, Developments, and Prospects for Cosmology

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Gravitational-wave standard sirens provide an independent means of measuring the expansion history of the universe. With growing datasets from currently operational detectors and new experiments under construction (such as LISA) or in development (Einstein Telescope, Cosmic Explorer), standard sirens are gaining significant attention as a powerful cosmological probe. In this talk, I will review the concept and current status of standard siren techniques and observations, highlight recent advances in statistical methods, and discuss observational prospects in both the near and long term.

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