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The interface of theory and observation in gravitational waves

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Gravitational waves, first predicted by Einstein's theory of general relativity, have opened a new window for observing the universe. Detections of coalescing binaries made by gravitational-wave observatories rely on both accurate theoretical models and precise observational techniques, bridging theory and data together. This talk will review how theory has helped bring us into the era of gravitational wave astronomy, and how it will continue to advance the field in the future.

Keyword-1

gravitational waves

Keyword-2

astrophysics

Keyword-3

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