

Prospect of detecting gravitational waves and probing gravity with pulsar timing arrays.

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Low-frequency gravitational waves cannot be detected with ground-based detectors. While GW observations at frequencies in the micro- to mHz regime are planned with spaced-based detectors, even lower frequencies, such as at nHz frequencies, can be detected with pulsar timing arrays (PTAs). The talk summarises the PTA experiments, describes the current status and prospects, and also indicates how gravity tests are enabled by detections.

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