



Contribution ID: 839

Type: **Parallel**

The Nanohertz Gravitational Wave Background: Insights from Pulsar Timing Arrays

Pulsar Timing Array (PTA) collaborations use a collection of pulsars in the Milky Way to detect gravitational waves in the nanohertz band by measuring tiny shifts in pulse arrival times. In this talk, I will briefly summarise the recent strong evidence for a gravitational wave background, together with astrophysical and cosmological interpretations of the PTA observation. I will conclude by highlighting prospects for discriminating between the possible origins of the observed signal.

Secondary track

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Session Classification: T01

Track Classification: T01 - Astroparticles, Gravitation and Cosmology