Cosmology, Astrophysics, Theory and Collider Higgs 2024 (CATCH22+2)

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## **Gravitational Waves as Probes of New Physics**

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We discuss some examples of how gravitational waves from either phase transitions or cosmological relics such as cosmic strings or domain walls, may be used to probe a variety of new physics ranging from neutrino mass, grand unification, inflation or even quantum gravity. The recent Pulsar Timing Array results from experiments such as NANOgrav may be the first indication of such signals.

Primary author: KING, Stephen Frederick (University of Southampton)Presenter: KING, Stephen Frederick (University of Southampton)Session Classification: Talks