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The Gravitational-Wave Background: Anisotropies and Cosmic Strings

Friday, 12 January 2018 09:10 (10 minutes)

With gravitational-wave interferometry firmly established as a new field of astronomy, one of the most exciting targets for future observations is the *stochastic gravitational-wave background* (SGWB). Comprised of a large number of distant, unresolved sources, this background carries much information about the early universe, and will soon become a powerful cosmological probe.

While the SGWB is commonly treated as isotropic, we relax this assumption and, by analogy with the CMB, develop a framework for computing analytical predictions of the full anisotropic background. As a concrete example, we consider the SGWB generated by a network of cosmic strings.

What would be the preferred length of your talk?

10 minutes + questions

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