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Testing the statistical isotropy of the Universe with stochastic gravitational wave backgrounds

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The anisotropies of stochastic gravitational wave backgrounds (SGWB) of both cosmological and astrophysical origin retain precious information on the geometry and the content of the Universe at early times.
In this talk we present some test of statistical isotropy which can be conducted by observations of SGWB alone and in cross-correlation with other cosmological observables, such as the Cosmic Microwave Background.
In particular, we will focus on some techniques to estimate the monopole, dipole and quadrupole with the LISA-Taiji network, illustrating the constraining power of space-based interferometers.

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