

# Challenges in stochastic background searches in the first ET MDC

*Wednesday 28 May 2025 15:30 (12 minutes)*

This talk will present the analysis of the first ET MDC using the pygwb pipeline to search for an isotropic stochastic background. We compare the measurement to the theoretical prediction derived from the list of sources and quantify the differences, providing valuable insights into stochastic searches in the presence of high signal-to-noise ratio signals. Additionally, we will discuss the information obtained about the population of compact binary coalescences over cosmic time from the measurement of the stochastic background. Moreover, we will consider consequences for the search for underlying cosmological backgrounds.

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