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Interpolated spline knots for the unmodeled simultaneous characterisation of a Stochastic Gravitational Wave Background and the LISA instrumental noise

The goal of this work is to investigate whether it is possible or not to separate and identify an isotropic, Gaussian, Stochastic Gravitational Wave Background (SGWB) from the LISA instrument noise, without making any assumptions about the spectral shapes of both. And, if not, to test whether keeping one shape unknown and using prior knowledge about the shape of the other would allow for an identification.

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