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Cosmology with the massive black hole population

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Features in the black hole population provide crucial information for measuring cosmology using only gravity.
If this method is used for current gravitational wave observations, it has significant potential for applications
to LISA sources. I present the first realistic population and spectral siren analysis using state-of-the-art cata-
logs of massive black hole mergers to infer both population and cosmological parameters simultaneously. We
provide estimates of the constraints that LISA will be able to deliver, discussing specifics related to LISA and
possible limitations of this approach with such sources.

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Classification de Session: Contributed talks and discussions

Classification de thématique: Science with and for LISA