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Can SBI unlock the LISA global fit?

The Laser Interferometer Space Antenna (LISA) will provide an unprecedented window into the gravitational wave sky. However, it also presents a serious data analysis challenge to separate and classify various classes of deterministic sources, instrumental noise, and potential stochastic backgrounds. This “global fit” problem presents an extremely high-dimensional inference task that sits right at the limits of traditional likelihood-based methods. In this talk, I will explore how SBI could transform our approach to the LISA global fit.

AI keywords

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