A Bayesian-style approach to estimating LISA science capability.[1]

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— A full understanding of LISA's science capability will require accurate models of incident waveform signals and the instrumental response. While Fisher matrix analysis is useful for some estimates, a Bayesian characterization of simulated probability distributions is needed for understanding important cases at the limit of LISA's capability. We apply fast analysis algorithms enabling accurate treatment using EOB waveforms with relevant higher modes and the full-featured LISA response to study these aspects of LISA science capability.

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Date submitted: 30 Sep 2016   Electronic form version 1.4