

Abstract Submitted
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Fast Frequency-Domain Waveforms for Generic Spin Configurations ANTOINE KLEIN, Univ of Mississippi, NICOLAS YUNES, NEIL CORNISH, Montana State University — We present a family of frequency-domain gravitational waveforms for precessing binaries valid for generic spin configurations and magnitudes. These waveforms are fast to generate and provide excellent agreement with time-domain waveforms computed via a discrete Fourier transform. They can be computed for any solution of the binary's equations of motion, and provide a realistic solution for the search for generic precessing binaries in gravitational wave data analysis, due to their low computational cost.

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