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## **Solution to the binary black hole system with arbitrary spins, eccentricity, and masses at the second post-Newtonian order**

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We present an analytical solution to the binary black hole system with arbitrary spins, eccentricity, and masses at the second post-Newtonian order. This solution owing to its analytical nature is expected to facilitate quick gravitational wave (GW) template generation and accelerate GW detection and parameter estimation.

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