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Charged Black Hole Binary Dynamics at Second Post-Minkowskian Order from Scattering Amplitudes

Thursday, 3 December 2026 14:20 (20 minutes)

I will present the perspective of studying inspiral dynamics of electrically charged black hole binaries from scattering amplitudes in a quantum field theory. With this approach we obtain the conservative two-body Hamiltonian at second order in Newton's constant, while also incorporating the effects of the charge. Observables are derived thereafter.

Academic position of the presenting author

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