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Self-force in hyperbolic scattering

Wednesday 3 September 2025 09:00 (50 minutes)

I will review recent work to apply self-force methods to the black-hole scattering problem in the extreme-mass-ratio domain, enabling useful comparisons with similar calculations in post-Minkowskian theory. In particular, I will demonstrate how benchmarking of scattering observables using self-force data can inform efficient resummations of post-Minkowskian formulas that remain accurate even in the strong-field regime.

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