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Formalism for studying $\gamma\gamma \to \pi\pi$ in a finite, Euclidean spacetime

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The $\gamma\gamma \to \pi\pi$ scattering amplitude can help constrain hadronic contributions to the anomalous magnetic moment of the muon, as well as structural information of glueball and tetraquark candidates. To leading order in QED, this amplitude can be accessed from matrix elements from non-local products of electromagnetic currents evaluated in an infinitely large Minkowski spacetime. In this talk, we present a model-independent formalism to determine this amplitude from finite, Euclidean spacetime correlation functions.

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