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Double Compton Scattering in the Worldline Formalism

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Abstract

Worldline path integrals have been used for decades as an alternative to Feynman diagrams in QED. However, it was only in 2020–2021 that Ahmadiniaz et al. showed how to extend this formalism to the photon-dressed fermion line. One of the most attractive features of this approach is that it completely avoids the appearance of long products of Dirac matrices. In this work, we apply the formalism to a recalculation of the double Compton scattering cross section and discuss possible further applications.

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