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Lepton proton two photon exchange with soft photon approximation

We present an improved evaluation of the two-photon exchange correction to lepton proton scattering using heavy baryon chiral perturbation theory at next-to-leading order using elastic intermediate state and adhering to soft photon approximation. A more systematic approach is applied to the loop integrations, eliminating some of the crude approximations from previous work.

Field of contribution

Theory

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