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Quark-photon vertex from lattice QCD in Landau gauge

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We study the nonperturbative structure of the quark-photon vertex in Landau gauge. To this end we utilize Green's functions from two-flavor lattice QCD simulations and extract all longitudinal and transversal form factors. Interestingly, our lattice results fit rather well with solutions of the inhomogenous Bethe-Salpether equation of the vertex in the rainbow-ladder approximation. Though, differences are seen, too.

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