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Gravitational form factors of mesons and the proton

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Gravitational form factors (GFFs) characterize the distribution of energy, angular momentum, and forces within a hadron, analogous to the charge and magnetization distributions encoded by electromagnetic form factors. GFFs can experimentally be extracted from generalized parton distributions (GPDs), which are themselves measured in hard exclusive reactions such as deeply virtual Compton scattering (DVCS). We present a Poincare-covariant calculation of GPDs and GFFs for light mesons and the proton in the Nambu-Jona-Lasinio (NJL) model of quantum chromodynamics (QCD), and comment on the physical interpretation of the GFFs.

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