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Photon contributions to Gravitational Form Factors in Dressed Electron State

We analyze the contributions to the gravitational form factors (GFFs) arising from the photon component of the energy-momentum tensor within the framework of light-front QED. Considering a dressed electron state, we employ the light-front Hamiltonian approach in light-front gauge. Additionally, we explore the impact of the photon on the mechanical properties of the dressed electron state, like pressure, shear, and energy distribution.

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