

Oral contribution

Two-photon exchange to proton electromagnetic properties in time-like region

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摘要

The contributions of two-photon exchange in the process $e^+e^- \rightarrow p+p$ including N and Δ intermediate states are estimated in a simple hadronic model. The corrections to the unpolarized cross section as well as to the polarized observables P_x and P_z are evaluated.

The results show the corrections to unpolarized cross section are small and the angle dependence becomes weak at small s after considering the N and $\Delta(1232)$ contributions simultaneously, while the correction to P_z is enhanced.

关键词 [two-photon exchange, nucleon, delta, form factor](#)

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