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Presentation

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Electromagnetic form factors of Δ -N transition

The three Jones-Scadron form factors G_M , G_E and G_C^* for the Δ N transition are derived in the dispersion theory and chiral perturbation theory at low Q^2 regions. The Q^2 dependence of magnetic dipole form factors are compared to the experimental data of the resonant multipoles $\text{Im}M_{1+}^{3/2}$. The decay rate of the Dalitz decay $\Delta \rightarrow \text{Ne}^- e^+$ is also derived in one-photon production process.

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