

Fotoproduksi Meson Eta-Prime hingga Resonan Spin-7/2 dengan Model Isobar = Eta-Prime Meson Photoproduction until Spin-7/2 Resonance using Isobar Model

Dzulfiqar Fauzan Rabbani, author

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Abstrak

Fotoproduksi meson- $\bar{\Lambda}$ dipelajari menggunakan model Lagrangian efektif dengan model isobar. Lagrangian efektif akan digunakan untuk menghitung amplitudo in varian untuk kanal-s suku Born, kanal-t suku pertukaran vektor meson, serta reso nans spin 1/2, spin 3/2, spin 5/2, dan spin 7/2. Amplitudo invarian akan dikerjakan secara analitik dan numerik yang kemudian akan didapatkan penampang lintang differensial. Hasil penampang lintang differensial akan dibandingkan dengan data eksperimen.

..... $\bar{\Lambda}$ - meson photoproduction on the nucleon has been studied with effective lagrangian approach using isobar model. Effective lagrangian will be used to calculate invariant amplitude for s-channel Born term, t-channel vector-meson exchange term, and resonance spin 1/2, spin 3/2, spin 5/2, and spin 7/2. Invariant amplitude calculated by using analitic and numeric method which then will be obtained differential cross section. The result of differential cross section will be compared with experimental data.