

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- η' 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 resonans 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.

..... η' 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.