

Fotoproduksi eta meson pada nukleon dengan model isobar = Eta meson photoproduction on the nucleon with isobaric model

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Deskripsi Lengkap: <https://lib.ui.ac.id/detail?id=20414082&lokasi=lokal>

Abstrak

[ABSTRAK

Reaksi fotoproduksi h Meson dengan menggunakan partikel Gamma (Foton) sebagai proyektil dan Nukleon sebagai target untuk mencari Gamma (Foton) yang terhambur.

Reaksi fotoproduksi yang ditinjau adalah $gN! hN$ dengan model isobar.

Amplitudo transisi diagram Feynman pada kerangka pusat massa digunakan untuk mencari Amplitudo Kuadrat dengan melibatkan melibatkan s-channel, u-channel, dan t-channel pada suku Born dan resonan. Nilai yang dicari adalah nilai Penampang

Lintang Differensial dengan menggunakan energi sistem mulai dari 1.685

MeV hingga 2.795 MeV dalam beberapa variasi sudut q . Fitting grafik hubungan

antara Penampang Lintang Differensial dengan energi sistem dalam beberapa

variasi sudut agar diketahui besarnya kontribusi dari amplitudo transisi pada setiap

channel dari suku Born dan resonan pada proses perhitungan data eksperimen

CLAS.

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ABSTRACT

Eta Meson Photoproduction reaction using Gamma particles (photons) as projectiles

and Nucleon as a target to look for Gamma (photons) are scattered. Reactions were

reviewed photo-production is $gN! hN$ with isobaric models. The amplitude transitions

of Feynman diagrams at the center of mass frame used to find Amplitude

Squares involving the s-channel, u-channel, and t-channel on Born term and resonance.

Values are looking for is the value of the differential cross section on the

energy system used by 1.685 MeV Up to 2.795 MeV . After that fitting the graph of

the differential cross section with the energy system to shows the result how much

the contribution of the amplitude transitions at each channel of the Born term and

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