Ekstraksi Penampang LintangFotoproduksi Kaon Positif pada Neutron dari Deutron = Extraction Cross Section of Positive Kaon Photoproduction on Neutron from Deuteron

Mutoharoh, author

Abstrak

[ABSTRAK
Telah dipelajari dan dikembangkan sebuah model sederhana untuk reaksi fotoproduksi kaon pada neutron dari deuteron yaitu model isobar dengan menggunakan pendekatan impuls. Nilai yang dicari adalah nilai penampang lintang diferensial dengan variasi energi foton dimulai dari 1,15 GeV-3,55 GeV. Hasil penelitian ini menunjukkan reaksi
+ n ! K++ 􀀀 dapat diektraksi dari reaksi
+ d ! K++ 􀀀
+ p. Selain itu dapat disimpulkan bahwa hasil penelitian antara data teori dengan data eksperimen berbeda jauh, data teori melampaui jauh diatas nilai data eksperimen. Salah satu faktor yang menyebabkan hasil data teori dengan eksperimen jauh berbeda disebabkan oleh elemen operator dimana nilai elemen operator yang digunakan memiliki nilai maksimum 2 GeV sedangkan data ekperimen hingga mencapai nilai 3 GeV. Hal inilah yang menyebabkan data teori dengan menggunakan model missing resonans harus dikalikan dengan faktor pengali agar t dengan hasil eksperimen.
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