

Perhitungan partial wave dan 3D untuk hamburan kp, serta studi efek kinematika relativistik = Partial wave and 3d calculations for k p scattering with study of relativistics effect in addition

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Abstrak

Hamburan K-p dihitung dengan menggunakan teknik partial wave dan teknik 3D. Perhitungan saling dibandingkan untuk berbagai energi. Perhitungan dengan menggunakan kinematika relativistik juga dilakukan untuk melihat efek relativistik pada berbagai energi. Model potensial yang digunakan digambarkan sebagai model pertukaran meson dan hiperon. Observable yang dihitung yaitu penampang lintang diferensial, polarisasi, dan depolarisasi.

*K p scattering is calculated using partial wave technique and 3D technique. Both calculations are compared with each other for various energies. Calculations using relativistic kinematics are also performed to observe relativistic effect on various energies. The Interaction used is described as a potential model for meson and hiperon exchanges. The observables being calculated are differential cross section, polarization, depolarization.*