

Efek relativistik pada hamburan kaon-nukleon dalam basis tiga dimensi = Relativistic effects on kaon-nucleon scattering in three dimensional basis

Rahadian Nopriantoko, author

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Abstrak

Hamburan kaon-nukleon diformulasikan dalam basis momentum-spin tiga dimensi. Interaksi yang dipakai berdasarkan model potensial Yukawa dengan faktor spin-orbit. Dalam penelitian ini, kami memasukkan unsur kinematika relativistik ke dalam hamburan, dan kemudian menyelidiki efek relativistik pada hamburan kaon-nukleon untuk nilai energi yang bervariasi.

.....Kaon-nucleon scattering is formulated in three-dimensional momentum-spin basis. The interaction being used is based on Yukawa potential model with spin-orbit factor. In this research, we use relativistic kinematics into scattering, and then investigate some relativistic effects on kaon-nucleon scattering for varies energy.