

Exchange potential in KN scattering

The Fock-Tani formalism is a first principle method to obtain effective interactions from microscopic Hamiltonians. Originally, derived for meson-meson or baryon-baryon scattering, we present the corresponding equations for meson-baryon scattering. Then we include the meson-quark coupling constant to the interaction potential between quarks with gluon exchange. In particular, we shall obtain the low energy total cross section for the $K^- + p \rightarrow K^- + p$ channel.

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