

SUM RULES FOR FORWARD ELASTIC PION-NUCLEON SCATTERING

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A number of energy weighted sum rules relating amplitudes and differential cross sections for forward elastic and charge exchange scattering to the total pion-nucleon cross section are derived from dispersion relations.

In a previous paper [1] we derived sum rules for photon scattering from dispersion relations relating the real and imaginary parts of the forward photon scattering amplitude on spin 0 and $\frac{1}{2}$ targets, combined with the optical theorem relating the imaginary part of the forward amplitude to the total cross section. Those results are extended to pion-nucleon scattering by taking into account the finite meson mass and the effect of the nucleon pole below the scattering threshold.

Of the results presented here, the sum rules (11a, b) and (12) (which are linear in the amplitudes) and (17) and (18) (which are quadratic in the amplitudes and expressed in terms of the forward differential cross section) are, to our knowledge, new. The known sum rules (8)–(10) are derived in the literature by considering the dispersion relations near threshold, $\omega = m$. We present them here not merely to show their similarity to the sum rules (11a, b) and (12), but rather to point out that all of these sum rules follow equally simply from either the ordinary dispersion relations or the reciprocal relations upon taking the limit $\omega \rightarrow m$ or the limit $\omega \rightarrow \infty$, or by integrating over ω .

In the notation of [2] and [3] the forward elastic differential scattering cross sections for charged pion scattering on protons in the lab system are

$$\left. \frac{d\sigma(\pi^+)}{d\Omega} \right|_{\theta=0} = |f_+(\omega)|^2. \quad (1)$$

The total lab energy ω is given by $\omega^2 = k^2 + m^2$ where k is the pion lab momentum ($\hbar = c = 1$) and m the pion mass. The physical amplitudes have the crossing symmetry $f_+(-\omega) = f_-^*(\omega)$. A more fundamental combination for dispersion relations is

$$f^0(\omega) = \frac{1}{2} [f_-(\omega) \pm f_+(\omega)], \quad (2)$$

which have even (+) or odd (−) crossing symmetry: $f^0(-\omega) = \pm f^0(\omega)$. (The same remarks apply to pion-neutron scattering amplitudes except that the amplitudes with even and odd crossing symmetry are defined by $f_n^0(\omega) = \frac{1}{2} [f_{+n}(\omega) \pm f_{-n}(\omega)]$. The physical scattering cross sections are given in terms of f^0 , for charged pion elastic scattering by

$$\left. \frac{d\sigma(\pi^+)}{d\Omega} \right|_{\theta=0} + \left. \frac{d\sigma(\pi^-)}{d\Omega} \right|_{\theta=0} = 2 [|f^-|^2 + |f^+|^2]; \quad (3a)$$

for charge exchange ($\pi^- + p \rightarrow \pi^0 + n$) scattering by

$$\left. \frac{d\sigma_{CE}}{d\Omega} \right|_{\theta=0} = 2 |f^-|^2; \quad (3b)$$

and for π^0 elastic scattering by

$$\left. \frac{d\sigma(\pi^0)}{d\Omega} \right|_{\theta=0} = |f^+|^2. \quad (3c)$$

These are the hadronic cross sections and amplitudes, i.e. they do not include the effects of Coulomb distortion and electromagnetic processes such as $\pi^- + p \rightarrow n + \gamma$.

The imaginary parts of the forward amplitudes are given in terms of the total pion-proton interaction cross sections by the optical theorems,

$$\frac{4\pi \text{Im} f^0(\omega)}{k} = \frac{1}{2} [\sigma(\pi^-) \pm \sigma(\pi^+)] \equiv \sigma^0(\omega). \quad (4a, b)$$

The real parts of the amplitudes at threshold ($\omega = m, k = 0$) can be expressed in terms of the s-wave pion-nucleon scattering lengths a_{2T} in the two isospin channels $T = \frac{1}{2}$ and $T = \frac{3}{2}$:

$$\text{Re} f^+(m) = \frac{1}{2} (1 + m/M) (a_1 + 2a_3) = [\sigma^+(m)/4\pi]^{1/2}, \quad (4c)$$

$$\text{Re} f^-(m) = \frac{1}{2} (1 + m/M) (a_1 - a_3) = [\sigma^-(m)/4\pi]^{1/2}. \quad (4d)$$

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