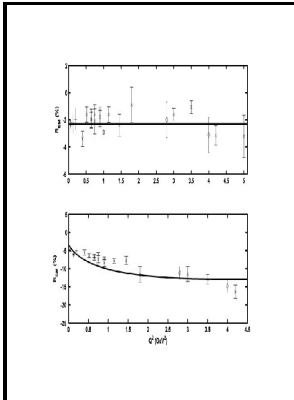# Pion electromagnetic form factor and the Veneziano model

International Atomic Energy Agency, International Centre for Theoretical Physics - Pion form factor in large Nc QCD

Description: -

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Marlborough, Sarah Jennings Churchill, -- Duchess of, -- 1660-1744
Mesons -- Scattering.pion electromagnetic form factor and the
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IC/69/55pion electromagnetic form factor and the Veneziano model
Notes: Bibliography: p. 10.
This edition was published in 1969

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Tags: #The #Veneziano #amplitude, #current #algebra #and #the #electromagnetic #pion #form #factor

Coupled

However, in the absence of exact solutions to this theory, the hadronic parameters masses, widths, couplings remain unspecified.

Nucleon form factors in the veneziano model

Tiktopoulos: Princeton preprint 1970 , unpublished. Our relativistic approach is based on a microscopic vector-meson-dominance model for the dressed vertex where a photon decays in a quark-antiquark pair, and on a simple parametrization for the emission or absorption of a pion by a quark. Further, the scaling property {approximately} k_{μ}^{-2} of the hadron's electromagnetic form factor at large k^2 is a consequence of the on-shell'' form of its null-plane wave function.

Nucleon form factors in the veneziano model

AIP A new relativistic definition of the reduced mass μ_{12} of a $q\bar{q}$ pair, so as to be in conformity with the standard Wightman-Garding definition of its relative four-momenta q_{μ}, is introduced into the kernel of an ongoing Bethe-Salpeter BS program on a two-tier basis. Lipinski: Wisconsin preprint 1969 , unpublished.

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Authors: ; Publication Date: 1972-01-01 Research Org. This information is determined by using the operator-product expansion, conformal invariance at short distances, and a regularity property that holds at least in the ladder model.

PION FORM FACTOR IN THE BETHE

When the pion's Bethe-Salpeter wave function is expanded in O 4 partial waves, it is found that the information needed about the partial-wave

amplitudes is their scaling behavior at large momentum and the locations of their poles in the complex J plane. The technique is based on a method proposed by Rosner and Suura.

Nucleon form factors in the veneziano model

Have an idea for a project that will add value for arXiv's community? Yellin: UCRL-18500 1968 , unpublished; C. A soft-pion expression for the pion electromagnetic form factor is derived. A simple unitarization ansatz is illustrated, and the resulting vector spectral function in the time-like region is shown to be in reasonable agreement with the ALEPH data from threshold up to about 1.

The veneziano model and the pion electromagnetic form factor

В рамках зтой модели численно вычисляется злектромагнитный форм-фактор пиона, исходя иэ уравнений унитарности. The leptonic decay constants f_p and the charge radii thus calculated are also in excellent agreement with data π, k where available, while f_p predictions for $Q\bar{q}$ mesons have good overlap with recent lattice predictions.

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