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Low Energy Pion-Pion Scattering

D. MORGAN and J. PIŠÚT

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Analytic Extrapolations and the Determination of Pion-Pion Phase Shifts*

JÁN PIŠÚT **

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Coulomb Corrections in the Analysis of πN Experimental Scattering Data

G. C. OADES

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Kaon-Nucleon Interactions below 1 GeV/ c

B. R. MARTIN

Abstract. A review of kaon-nucleon interactions below 1 GeV/ c is given, with emphasis on direct analyses of KN scattering data, and the phenomenological use of dispersion relations.

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W. PFEIL and D. SCHWELA

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Compilation of Coupling Constants and Low-Energy Parameters

(September 1970 edition)

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1. INTRODUCTION AND CREDITS

This work is the continuation and extension of two previous compilations (Ebel 69,70). The intention is similar to that of the Particle Data Group (PDG 70, 70a), namely to facilitate access to the original literature. The responsibilities are distributed as follows: Chapter 2 collaborative, edited by Pilkuhn, sections 3.1 Steiner, 3.2 Martin, 3.3 Kramer and Schierholz, 3.4 de Swart, 3.5 Pisút, chapter 4 Ebel, Julius, Müllensiefen, Schmidt, chapter 5 Roos, chapter 6 Pilkuhn.

Some of the references to older publications have been dropped. For the first time we have recommended best values for some of the coupling constants. The reference system has been adapted to that of the Particle Data Group. References are found at the end of each chapter, in chapter 3 at the end of each subchapter. Our list of Journal abbreviations is almost identical to that of PDG:

ADVP Advances in Physics

ANP Annals of Physics

ARNS Annual Review of Nuclear Science

CNPP Comments on Nuclear and Particle Physics

FP Fortschritte der Physik

JETP English translation of Soviet Physics JETP

