

Parallel talk

Resonance properties from a coupled channel meson exchange model

M. Döring¹, C. Hanhart^{1,2}, 黄飞³, S. Krewald^{1,2}, U.-G. Meißner^{1,2,4}

1 Institut für Kernphysik and Jülich Center for Hadron Physics, Forschungszentrum Jülich, D-52425 Jülich, Germany

2 Institute for Advanced Simulation, Forschungszentrum Jülich, D-52425 Jülich, Germany

3 Department of Physics and Astronomy, University of Georgia, Athens, Georgia 30602, USA

4 Helmholtz-Institut für Strahlen- und Kernphysik (Theorie) and Bethe Center for Theoretical Physics, Universität Bonn, Nußallee 14-16, D-53115 Bonn, Germany

收稿日期 2009-8-7 修回日期 网络版发布日期 2009-11-11 接受日期 2009-11-11

摘要

In this talk, I present the results on the pole structure of pion-nucleon scattering in an analytic model based on meson exchange. The analytic properties of scattering amplitudes provide important information. Besides the cuts, the poles and zeros on the different Riemann sheets determine the global behavior of the amplitude on the physical axis. Pole positions and residues allow for a parameterization of resonances in a well-defined way, free of assumptions for the background and energy dependence of the resonance part. This is a necessary condition to relate resonance contributions in different reactions.

关键词 [pion-nucleon scattering, meson exchange model, analytic structure of the scattering amplitude](#)

分类号

DOI:

通讯作者:

M. Döring m.doering@fz-juelich.de

作者个人主页:

M. Döring¹; C. Hanhart^{1,2}; 黄飞³; S. Krewald^{1,2}; U.-G. Meißner^{1,2,4}

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