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Comparing partial-wave amplitude

parametrization with dynamical

models of meson-nucleon

Relationships between partial-wave amplitude parametrizations, in particular the Chew-Mandelstam approach, and dynamical coupled-channel models are established and investigated. A bare pole corresponding to the Delta(1232) resonance, found in a recent dynamical-model fit to pion- and omega-meson production reactions, compares closely to one found in a unitary multichannel partial-wave amplitude parametrization of SAID. The model dependence of the bare pole precludes a direct connection between the approaches but is suggestive that the dynamical description and the phenomenological parametrization are closely related.

Comments:6 pages, 2 figures; 2nd version with minor correctionsSubjects:Nuclear Theory (nucl-th)Cite as:arXiv:1101.0621 [nucl-th](or arXiv:1101.0621v2 [nucl-th] for this version)

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