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Constrained pion-pion dispersive amplitude analysis up to 1.6 GeV and resonance determination

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A precise description of pion-pion interactions at low energies is fundamental for many processes in hadronic physics. We present preliminary work *that introduces several improvements over a previous dispersive analysis**. These include a refined treatment of inelasticities, the introduction of G-waves, the study of Forward Dispersion Relations (FDRs) up to 1.6 GeV, data description up to 1.8 GeV, and the study of the three most reliable solutions. From the FDR output we extract resonance poles using continued fractions.

*In progress J.R. Peláez, P. Rabán and J. Ruiz de Elvira

**J.R. Pelaez, A. Rodas, and J. Ruiz De Elvira. Global parameterization of pi-pi scattering up to 2 GeV. Eur.Phys.J.C, 79(12):1008, 2019.

Abstract

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