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Improving pion-pion dispersive amplitude analyses and resonance determination with Forward Dispersion Relations

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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, *which introduces several improvements with respect to a previous dispersive analysis*^{*}. This includes a refined treatment of inelasticities, the introduction of G-waves, the study of Forward Dispersion Relations (FDRs) up to 1.6 GeV, and data description up to 1.8 GeV. From the FDR output, we extract resonance poles by means of 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.

session

B. Hadron Spectroscopy

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