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\eta\pi phase shift determination from \eta^{\prime}->\eta\pi\pi experimental data

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In this talk, a dispersive approach is presented to extract the s-wave $\eta\pi$ scattering phase shift in the elastic regime from BESIII $\eta' \to \eta\pi\pi$ experimental data. This approach relies on unitarity and the structure of two-body partial wave amplitudes with an analytical closed formula for the Right-Hand-Cut and a conformal mapping for the Left-Hand-Cut. Finally, three-body final state interactions are modeled with the Khuri-Treiman equations

Abstract

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