



Contribution ID: 36

Type: **not specified**

$K \pi$ scattering analysis with Forward Dispersion Relations and other analytic methods

Thursday 16 March 2017 17:00 (30 minutes)

A precise determination of pion-kaon scattering amplitudes is very relevant for our understanding of both light meson physics as well as input for analysis of other hadronic decays. In this talk we first present our analysis of the fulfillment of Forward Dispersion Relations by the existing data up to 1.75 GeV, and by imposing these relations as constraints on the fits, we provide a set of simple data parameterizations that satisfy Forward Dispersion Relations while simultaneously describing the data up to 1.6 GeV. Finally, we present a determination of the mass, width and coupling of the resonances that appear in kaon-pion scattering below 1.8 GeV.

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Session Classification: Session

Track Classification: Topic 3: Theoretical Constraints on Amplitude Analyses