

Exotic mesons and final state interactions in electron-positron collisions

Monday, May 17, 2021 6:25 PM (20 minutes)

In my talk I will present the dispersive formalism we developed to analyse the BESIII data for the processes $e^+e^- \rightarrow \psi(2S)\pi\pi$ and $e^+e^- \rightarrow J/\psi\pi\pi$. We use the powerful dispersion theory, which combines fundamental physical principles such as causality, conservation of probability and crossing symmetry. Furthermore, we test the hypothesis whether exotic states can be parametrized as physical resonances and analyze effects of triangle and anomalous singularities as well as study the final state interactions of pions and kaons.

Collaboration

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