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(Meson) Spectroscopy with quasi-real photoproduction from CLAS12 to the EIC

Monday, December 9, 2024 11:00 AM (30 minutes)

An abundance of candidates for hadronic exotic states have been discovered over the last 20 years. Details of the exact structure of many of these are still incomplete. In this presentation we will examine the potential for quasi-free photoproduction of mesons, at possible future Jefferson Lab and EIC facilities, to enhance our understanding. Quasi-free photoproduction is essentially equivalent to real photoproduction but uses virtual photons with low Q^2 from electro scattering experiments. It can provide well understood polarisation degrees of freedom to extract more information from the processes. We will review some previous experiments then, using amplitudes from the JPAC collaboration, demonstrate the feasibility for future experiments to measure these states.

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Session Classification: Spectroscopy