



Contribution ID: 30

Type: **not specified**

Hadron Spectroscopy with CLAS and CLAS12

Friday, 13 March 2015 17:00 (25 minutes)

Investigating the spectrum of hadrons provides many interesting topics and helps to validate QCD as the underlying mechanism behind the strong interaction. In recent years photoproduction data has added to the wealth of data that can be used to determine the existence and properties of hadronic states. The real photon beam in Hall B at Jefferson Lab is providing particularly rich data due to its range of energy, high intensity and large acceptance CLAS spectrometer for detecting particles produced in the final state. Currently, the data produced have been largely focussed on baryon resonance production, but with the recent beam energy upgrade mesonic states will become much more accessible. As a result the MesonEx experiment at CLAS12 will supplement the planned spectrometer with a quasi-real photon tagger to provide a high yield of mesonic states produced with an effectively linearly polarised photon beam. While the hardware for this experiment is currently under construction effort is being put into preparing a suitable data and amplitude analysis framework through the HASPECT collaboration.

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Session Classification: Friday Afternoon