

Meson production and baryon resonances with CLAS

Volker D. Burkert

Jefferson Laboratory

In this talk, I will give an overview of the exploration of baryon properties in meson photo- and electroproduction at Jefferson Lab. These processes provide ample information that allows us to study the electromagnetic coupling of known baryon resonances and to search for states, yet to be discovered. The CEBAF Large Acceptance Spectrometer (CLAS) combined with the use of energy-tagged polarized photons and polarized electrons, as well as polarized targets and the measurement of recoil polarization, provide the tools necessary for a comprehensive nucleon resonance program. I will present the status of this program, prospects for the next few years, and plans for the Jefferson Lab 12 GeV upgrade.

E-mail:

burkert@jlab.org