Contribution ID: **58** Type: **not specified**

Recent results from the CBELSA/TAPS experiment at ELSA

Tuesday 11 June 2019 11:15 (35 minutes)

In order to gain a better understanding of the dynamics inside the nucleon and of the non-perturbative regime of QCD, the nucleon excitation spectra and the properties of nucleon resonances are investigated. An essential experimental tool to achieve this goal is the study of different photoproduction reactions. Partial wave analyses are performed in order to obtain information about the contributing resonances. A complete experiment is needed to extract the underlying amplitudes unambiguously, which requires the measurement of carefully chosen single and double polarization observables in addition to the unpolarized cross section. The CBELSA/TAPS experiment in Bonn offers the possibility to measure several polarization observables using a linearly or circularly polarized photon beam and with a longitudinally or transversely polarized target. This talk gives an overview of recently measured polarization observables in different final states. The impact of the new data is discussed.

Author: AFZAL, Farah (University of Bonn)

Presenter: AFZAL, Farah (University of Bonn)

Session Classification: Plenary Session 2

Track Classification: Baryon spectrum through meson photoproduction