

First results from the commissioning of the BGO-OD experiment at ELSA

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Collaboration

BGO-OD

Abstract content

The BGO-OD experiment, set up at the ELSA accelerator facility in Bonn, combines the highly segmented BGO calorimeter with a particle tracking magnetic spectrometer at forward angles. In this configuration the BGO-OD experiment is uniquely suited for a systematic study of meson photoproduction. It is capable of detecting final states of mixed charge with nearly 4π acceptance and with very high precision at forward angles for charged particles, complementary to other existing setups. An extensive physics programme using an energy tagged bremsstrahlung photon beam is planned. This includes measurements of associated strangeness, vector meson and pseudoscalar meson photoproduction. The commissioning phase of the experiment is recently complete, enhancements for the BGO-OD experiment are nevertheless in development. This talk will provide an overview of the BGO-OD setup and recent results from the analysis of the commissioning data, which includes particle track reconstruction in the forward spectrometer and momentum reconstruction with the BGO calorimeter.

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