

## Plenary talk

Recent results for single meson production from the Crystal-Barrel/TAPS experiment at ELSA

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收稿日期 2009-8-7 修回日期 网络版发布日期 2009-11-11 接受日期 2009-11-11

### 摘要

The present focus of the CBELSA/TAPS experiment is on meson-photoproduction off the nucleon using polarized photons and polarized targets. Here first preliminary results on the reactions  $\gamma p \rightarrow p\pi^0$  and  $\gamma p \rightarrow p\eta$  for both circularly and linearly polarized photons and a longitudinally polarized target are presented. Preliminary results for the beam asymmetry  $\Sigma$  and the double polarization observable  $G$  have been extracted for both reactions using the linear polarization data. From the circular polarization data the observable  $E$  has been determined. Due to the near  $4\pi$  angular coverage of the detector system these results cover almost the full solid angle.

关键词 [meson photoproduction, double polarization, baryon spectroscopy](#)

分类号

**DOI:**

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