

## Contribution submission to the conference Mainz 2012

**The OLYMPUS Experiment at DESY** — ●LAUREN ICE for the OLYMPUS-Collaboration — Arizona State University, Tempe, AZ, USA

The OLYMPUS experiment underway at the DESY laboratory in Hamburg will determine the two-photon contribution to electron-proton elastic scattering by measuring the cross section ratio between electron and positron elastic scattering from the proton. The experiment utilizes the storage ring DORIS at DESY with an internal gas target and a large acceptance magnetic spectrometer. An overview of the physics motivation for the experiment plus a description of the detector system will be presented. The first data run was completed in February, 2012 and preliminary results on the experimental operation and performance will also be discussed.

**Part:** HK  
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