

Abstract Submitted
for the SES06 Meeting of
The American Physical Society

Leptonic Structure Functions of Photons KLAUS DEHMELT, LASZLO BAKSAY, MARCUS HOHLMANN, Florida Institute of Technology, L3 COLLABORATION — Virtual photons can fluctuate into diverse final states. This can be described in terms of structure functions for photons. Among other processes, such fluctuations can yield muon-pairs. Apart from supplying another test of QED, purely leptonic processes provide a calibration for the hadronic processes. We report on a measurement with single-tagged two photon events from the LEP experiment L3, at c.m.s. energies between 189 GeV and 206 GeV. An overview of the fundamental physical processes and a discussion of the structure function results will be presented.

Klaus Dehmelt
Florida Institute of Technology

Date submitted: 15 Aug 2006

Electronic form version 1.4