

Abstract Submitted  
for the APR11 Meeting of  
The American Physical Society

**GPD Evolution for a Scalar Particle** HIKMAT BC, University of Texas at El Paso, MATTHIAS BURKARDT, New Mexico State University — We study the Generalized Parton Distribution (GPD) parameterization which aims at investigating how accurately GPDs can be extracted from DVCS data taken over a wide range of  $Q^2$ . The results indicate that from mathematical point of view a unique GPD extraction is possible. We have investigated that how experimental uncertainties and the limited range over which DVCS data will impede the GPD extraction.

Hikmat BC  
University of Texas at El Paso

Date submitted: 11 Jan 2011

Electronic form version 1.4