

Abstract Submitted  
for the DNP15 Meeting of  
The American Physical Society

**Simulation of a pion trigger for E12-06-114**<sup>1</sup> J. ADAMS THEIBERT,  
Ohio University — The Deeply Virtual Compton Scattering (DVCS) experiment<sup>2</sup>  
E12-06-114 at Jefferson Lab in Hall A will be taking data in 2016. Measurements  
of the absolute cross section of the  $H(e, e' \gamma)p$  will provide information about the  
internal structure of the nucleon. Photons resulting from the decay of  $\pi^0$  are the  
main source of background. A means of isolating the  $\pi^0$  reactions through modifica-  
tion of the dedicated FPGA based trigger function can help remove this unwanted  
background. Preliminary tests of the modified trigger in a simulated experiment  
show this approach has the capability of refining data acquisition.

<sup>1</sup>Supported by NSF award #1306376

<sup>2</sup><http://inspirehep.net/record/725912>

Julie Roche  
Ohio University

Date submitted: 20 Jul 2015

Electronic form version 1.4