

Abstract Submitted  
for the PSF12 Meeting of  
The American Physical Society

**X-ray studies of the pixel readout for the CMS detector** JACKSON  
YOUNG, University of Kansas, CMS COLLABORATION — X-ray tests have been  
conducted on the silicon pixel particle detectors which are being used in the Compact  
Muon Solenoid experiment at the Large Hadron Collider. Using an X-ray box setup  
at the University of Kansas, a broad scope of tests from simple parameter effects to  
more complex multi stage tests have been performed. A fluorescence setup was made  
to allow the adjustment of incoming particle energy which allows one to calibrate  
the energy in the detectors. The trimming algorithm used to adjust the readout  
threshold for each pixel is also studied using X-rays.

Alice Bean  
University of Kansas

Date submitted: 05 Oct 2012

Electronic form version 1.4