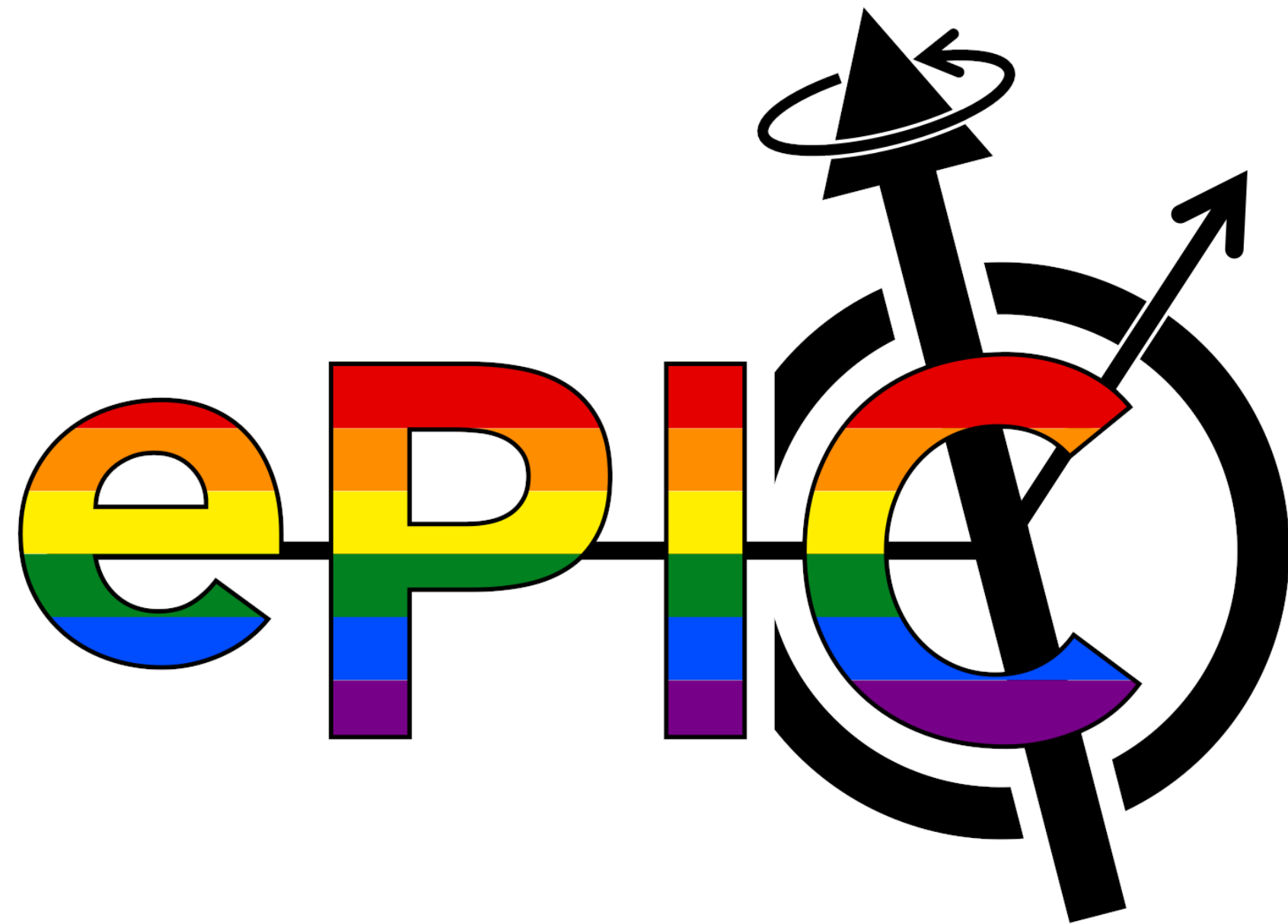


Yale ePIC LFHCal Cohort Update

Joint LFHCal & Insert Meeting



Fernando Antonio Flor
Yale University

February 28th, 2024

with

Elisa Kim, Ananya Rai, Iris Ponce Pinto,
Friederike Bock, Prakhar Garg and Helen Caines



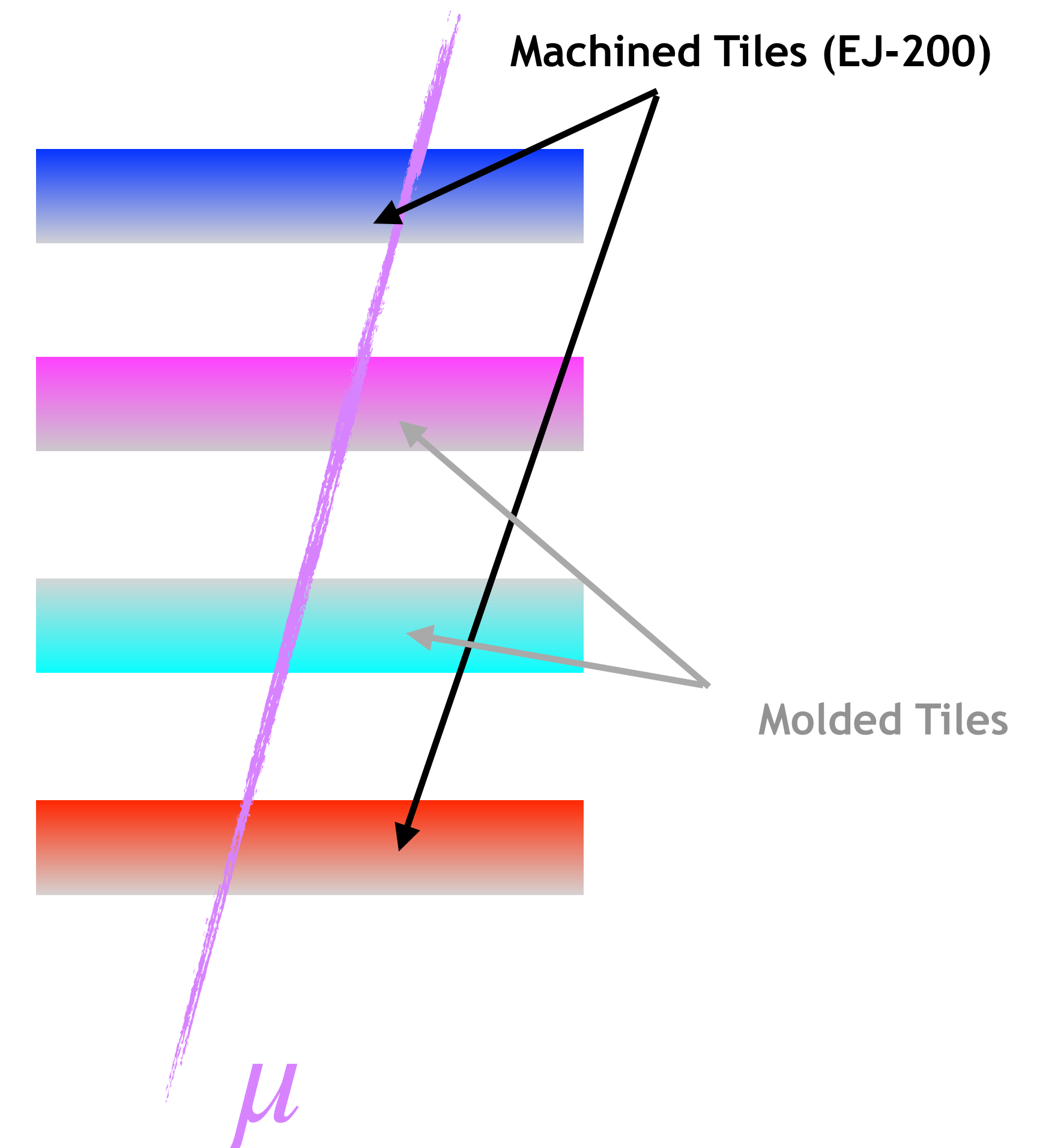
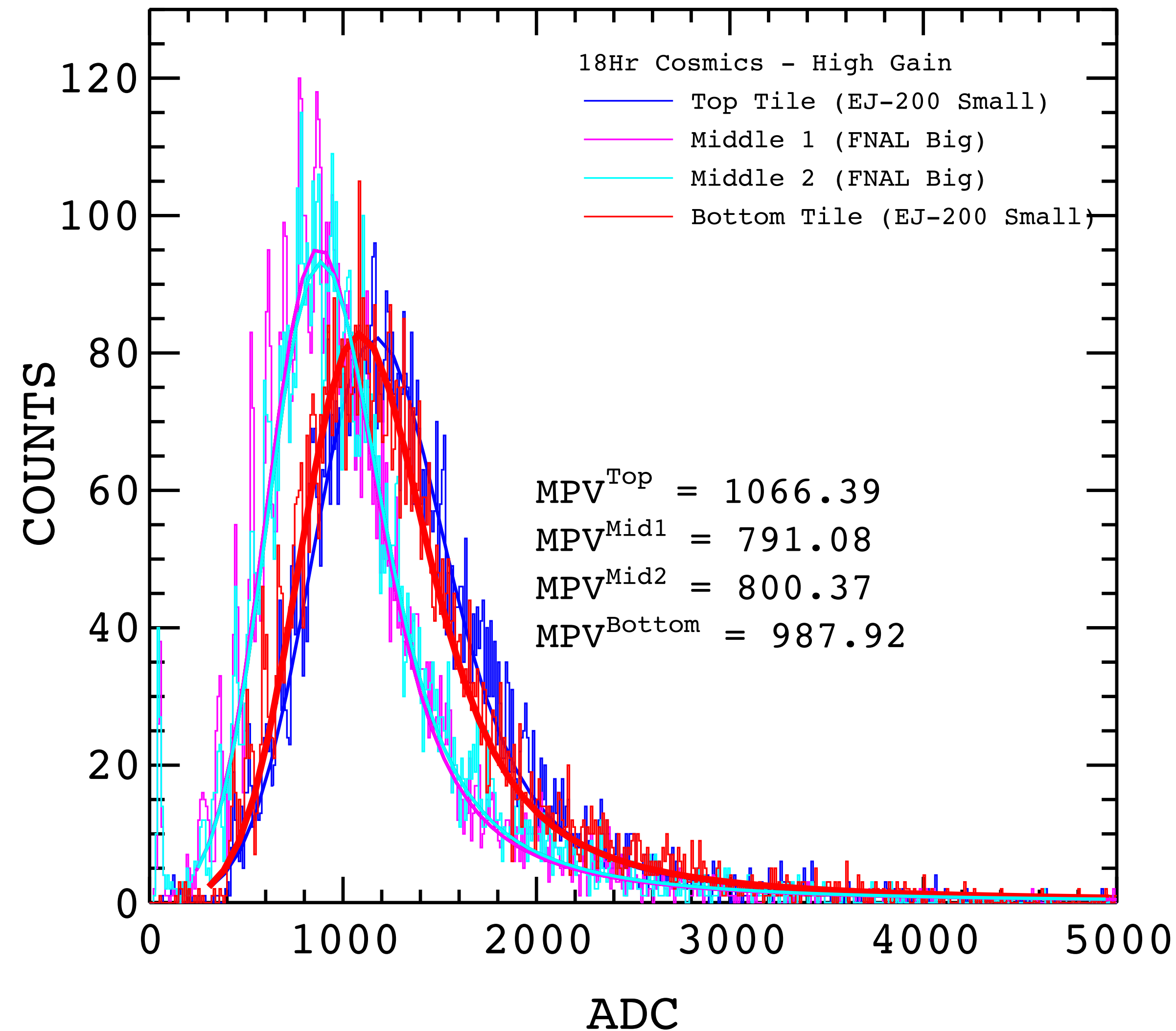
U.S. DEPARTMENT OF
ENERGY

Office of
Science



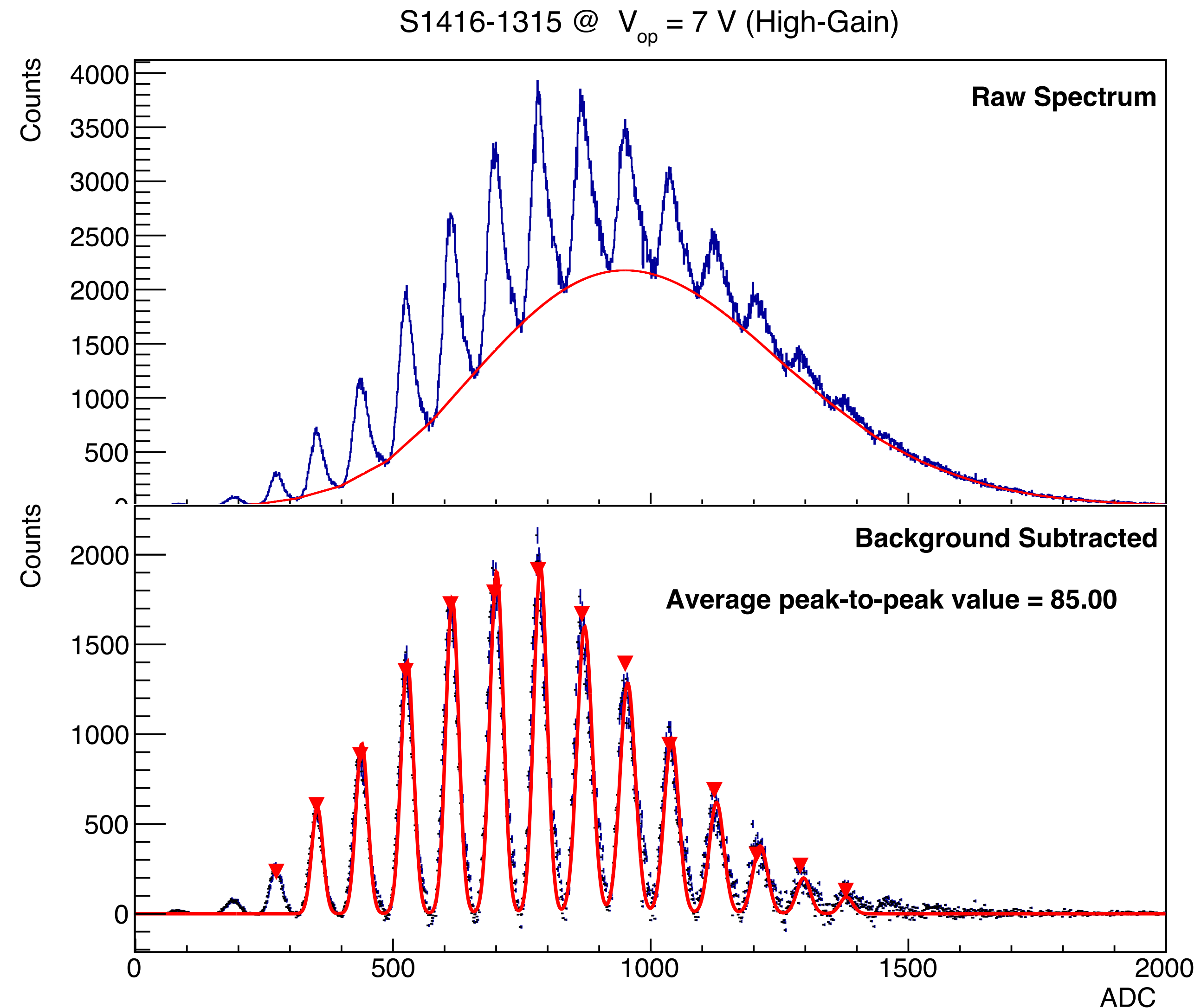
Wright
Laboratory

Fermilab Molded Tiles: Set 2 (Big Dimples)



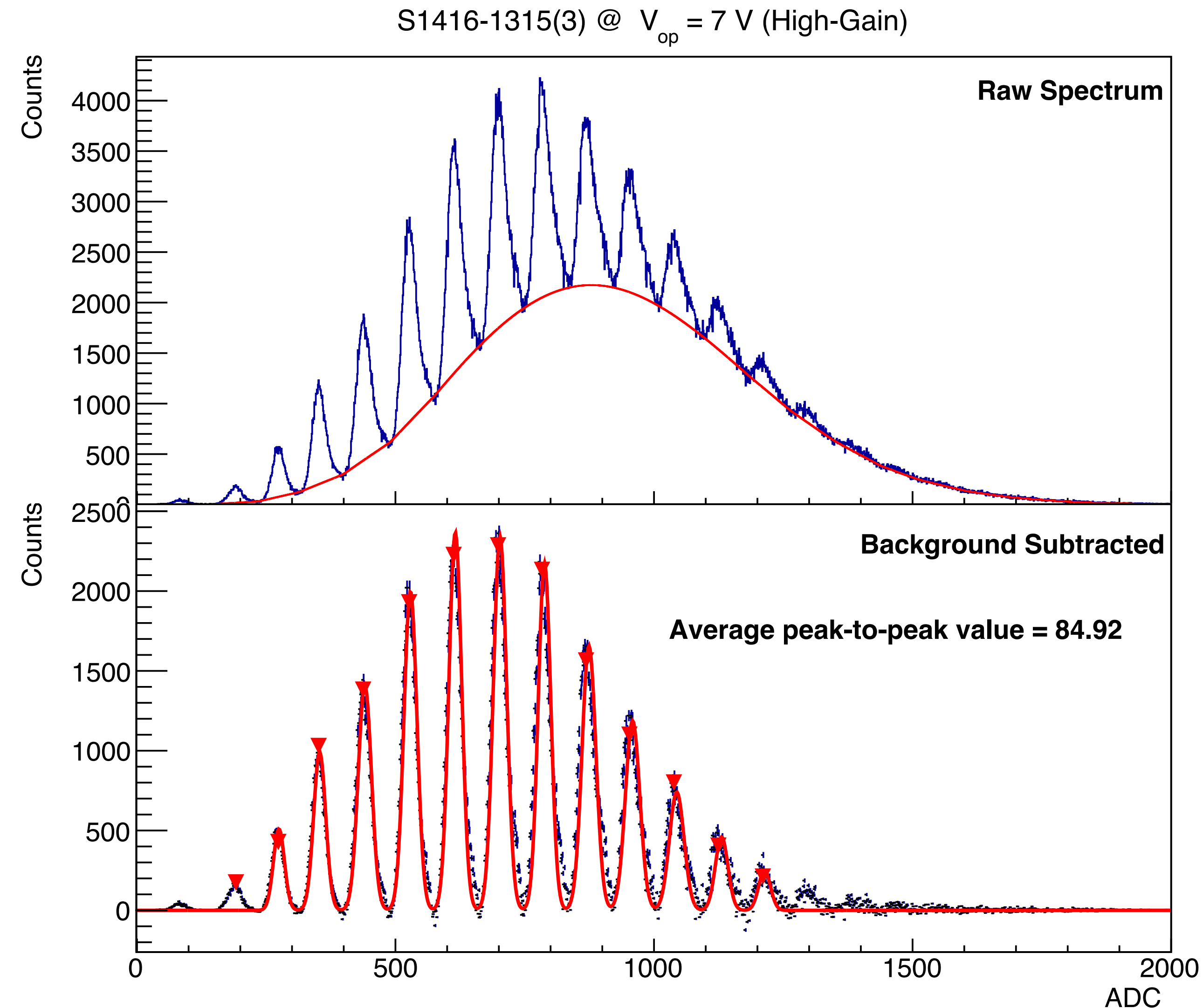
High Gain PE Spectra for S14160-1315

- Top SiPM PE determination via TSpectrum
- Background is subtracted first, then the peaks are found
- Peak-to-peak values are acquired and then averaged



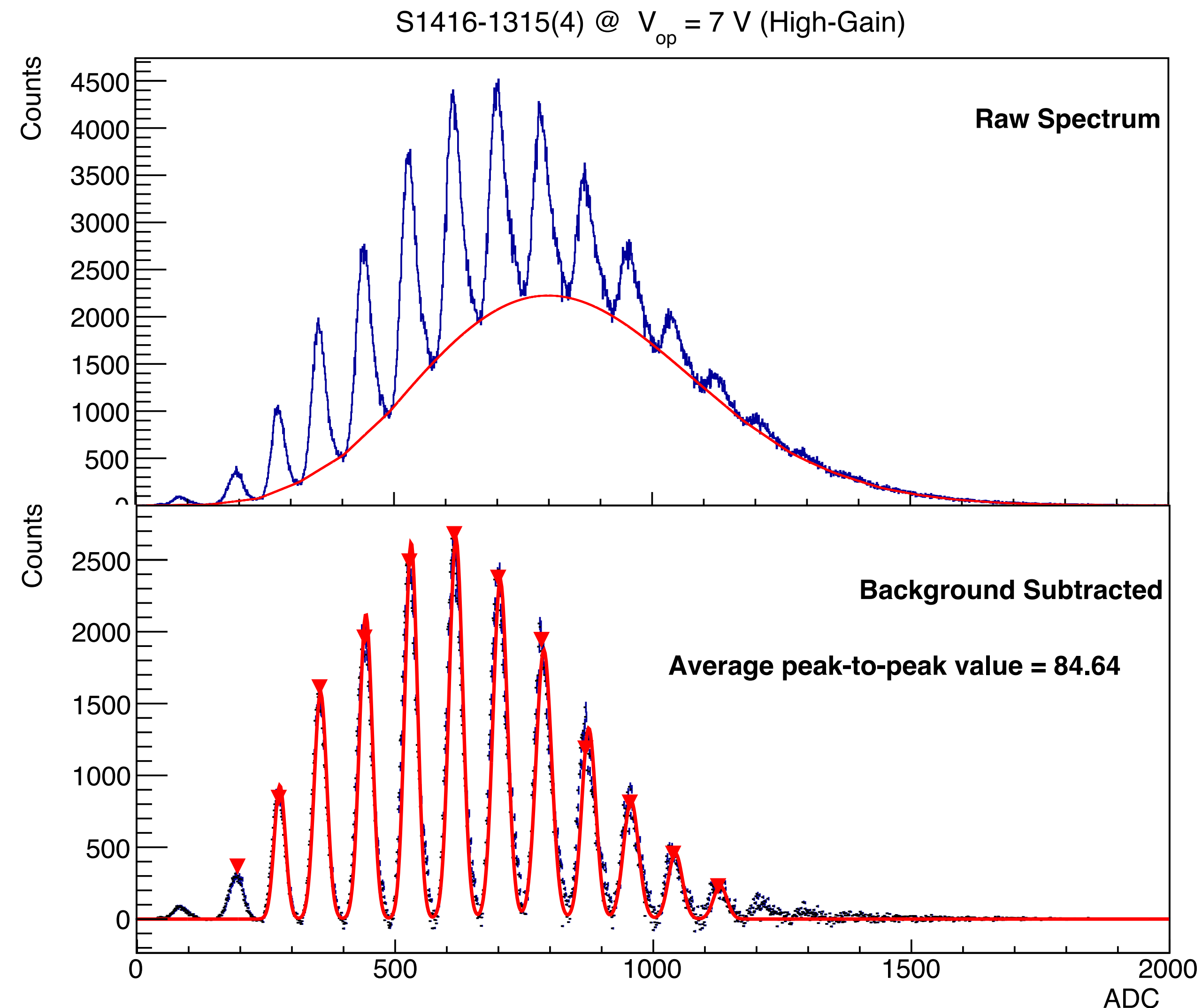
High Gain PE Spectra for S14160-1315(3)

- Mid1 SiPM PE determination via TSpectrum
- Background is subtracted first, then the peaks are found
- Peak-to-peak values are acquired and then averaged



High Gain PE Spectra for S14160-1315(4)

- Mid1 SiPM PE determination via TSpectrum
- Background is subtracted first, then the peaks are found
- Peak-to-peak values are acquired and then averaged

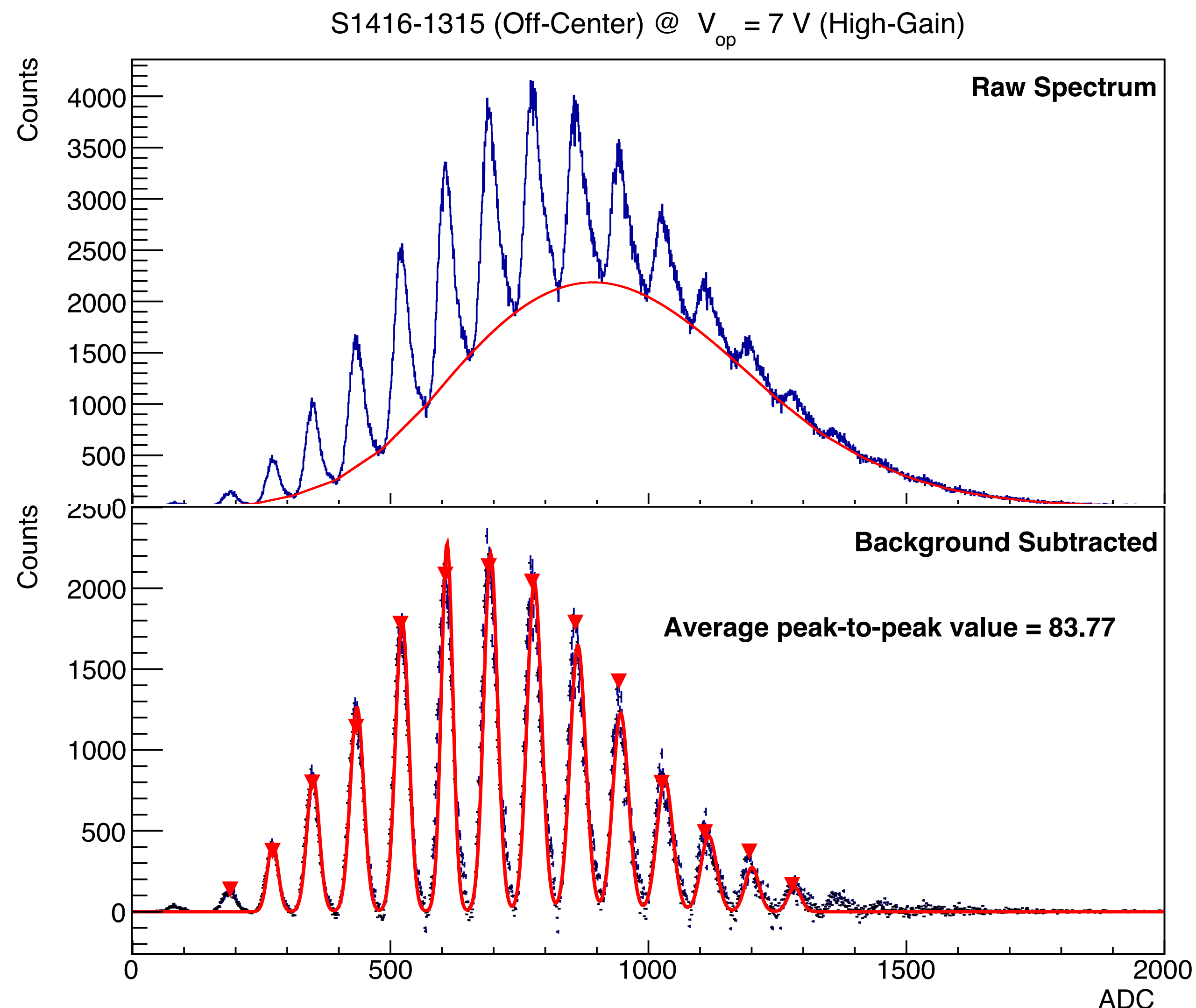


High Gain PE Spectra for S14160-1315(Off-Center)



- Bottom SiPM PE determination via TSpectrum
 - Background is subtracted first, then the peaks are found
 - Peak-to-peak values are acquired and then averaged

Need to replot everything now with the appropriate ADC-toPE values for each SiPM



CAVALRY

