

# Fourth Weekly Microboone Meeting

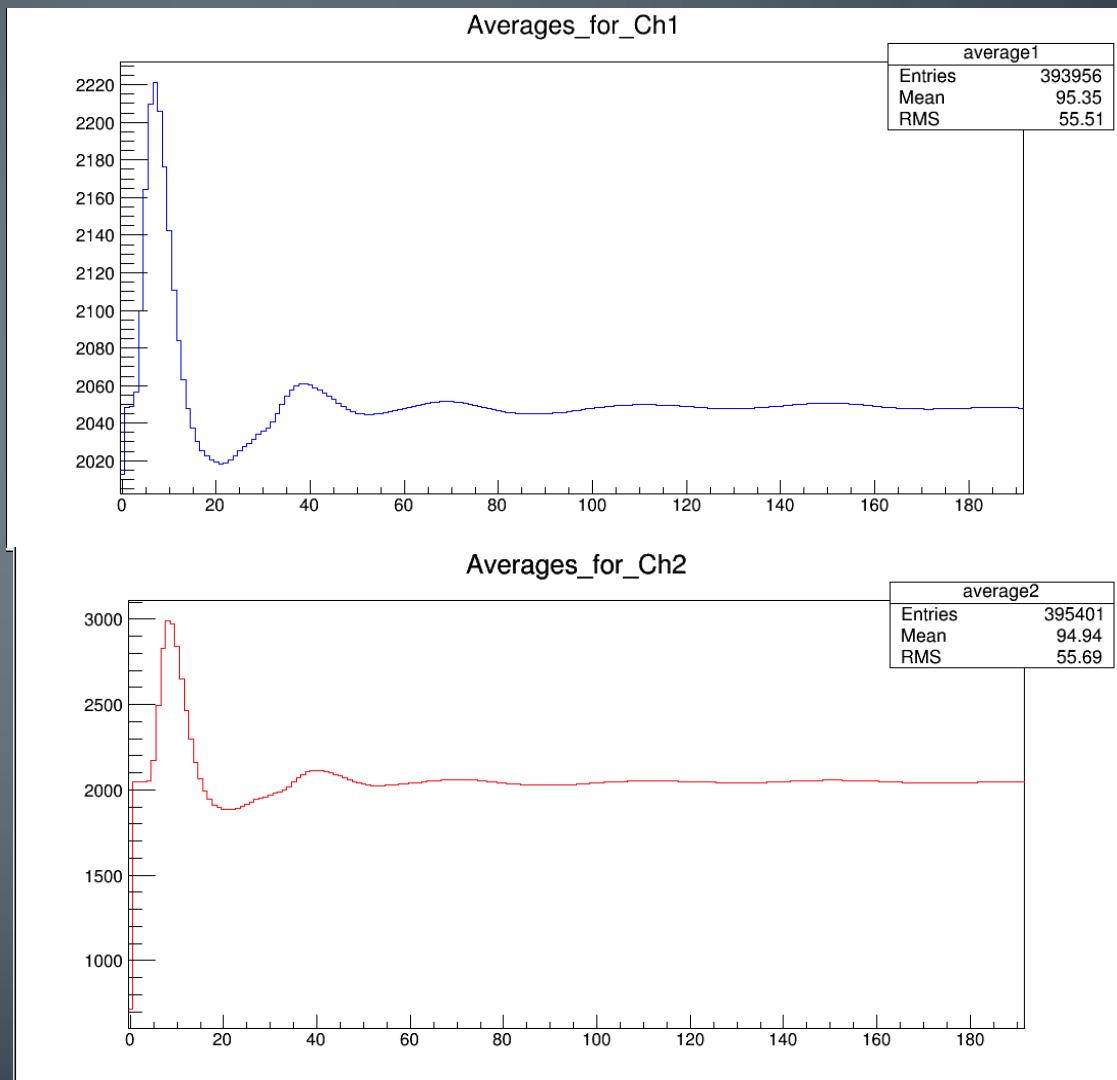
Connor Callahan  
Hardware

# TPC Crate Tests

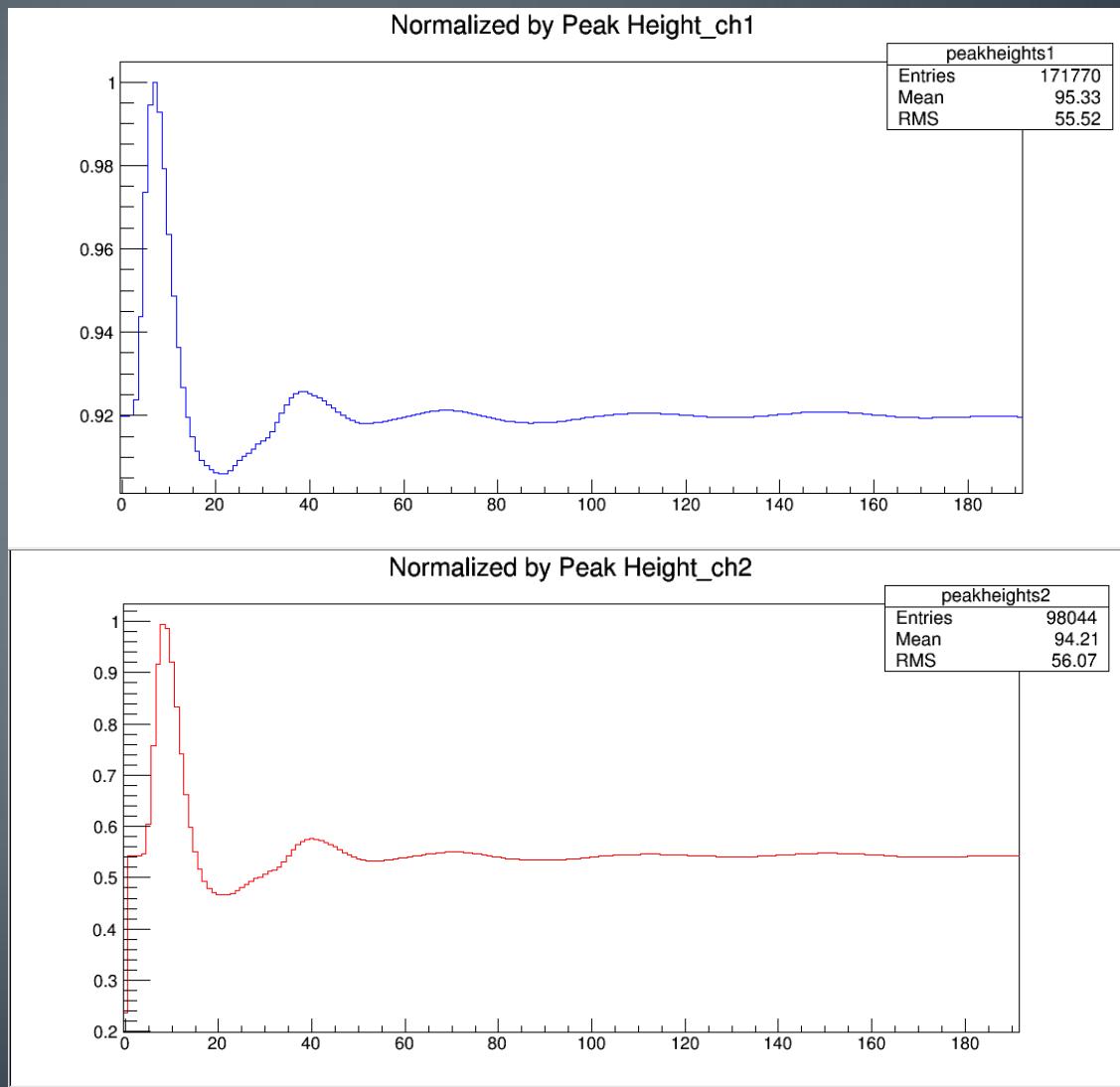
- - Finishing with the final crates
- - Waiting in optical cables to be delivered
- - Running a million events on the FEMs that weren't reliable before (about a day or two of testing)
- - Retesting two small ASIC tests on a previous crate



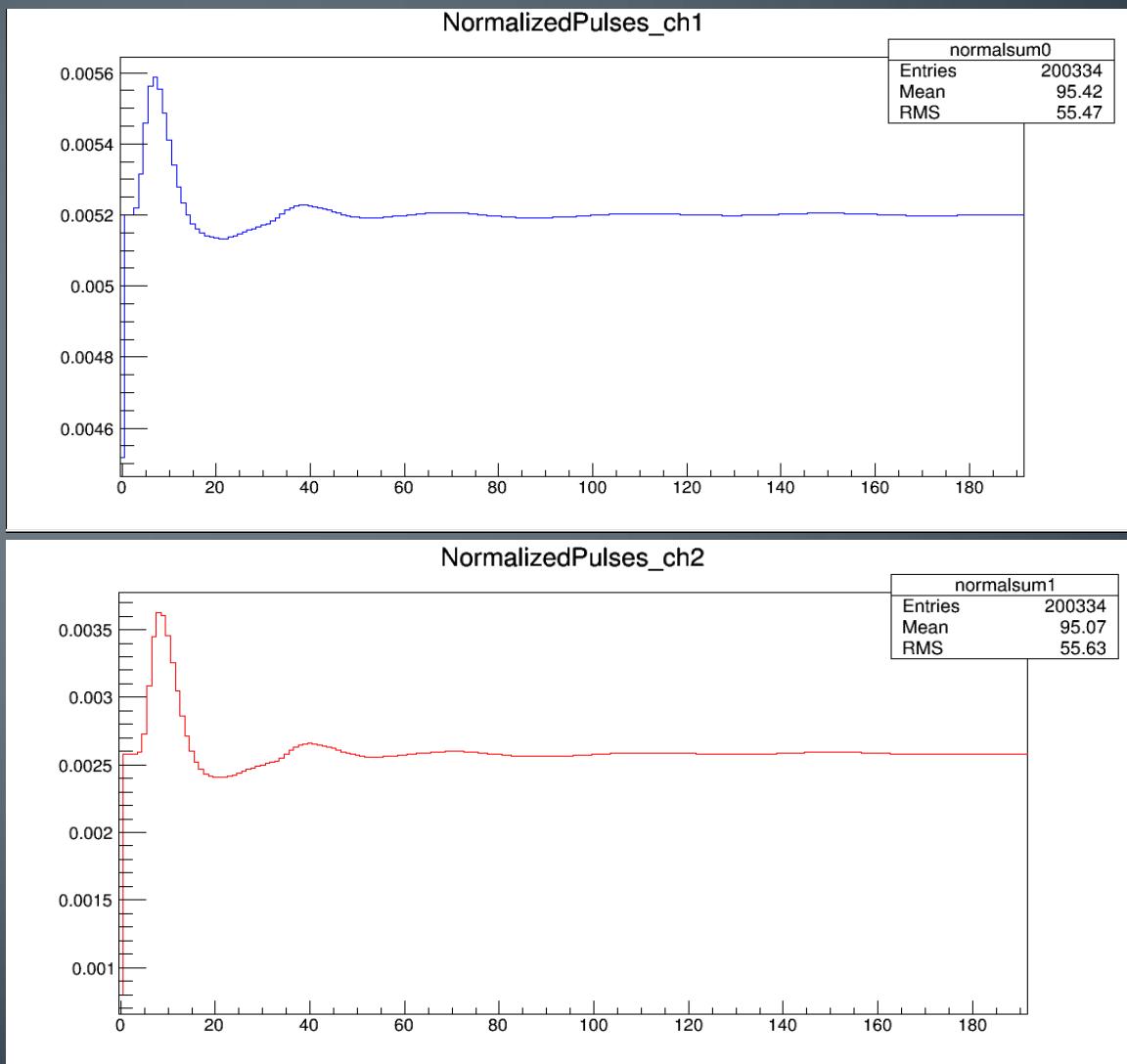
# Averages LED (1650)



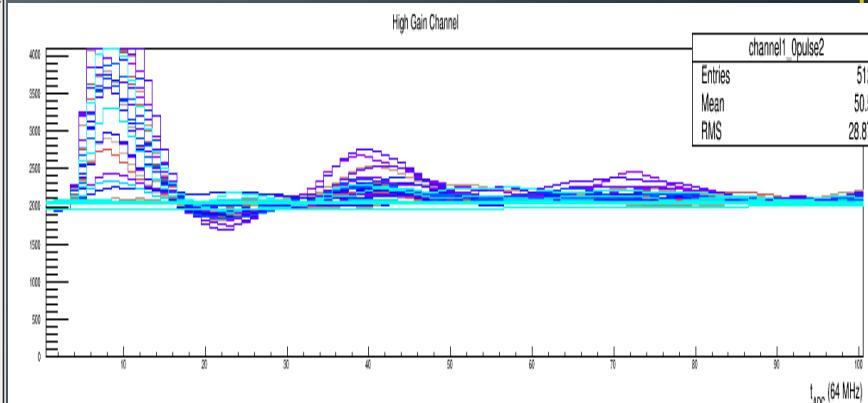
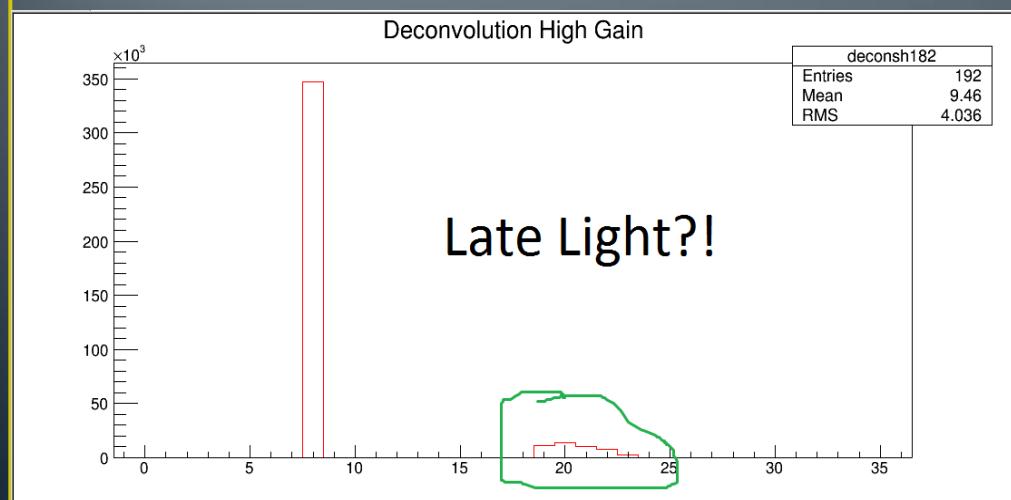
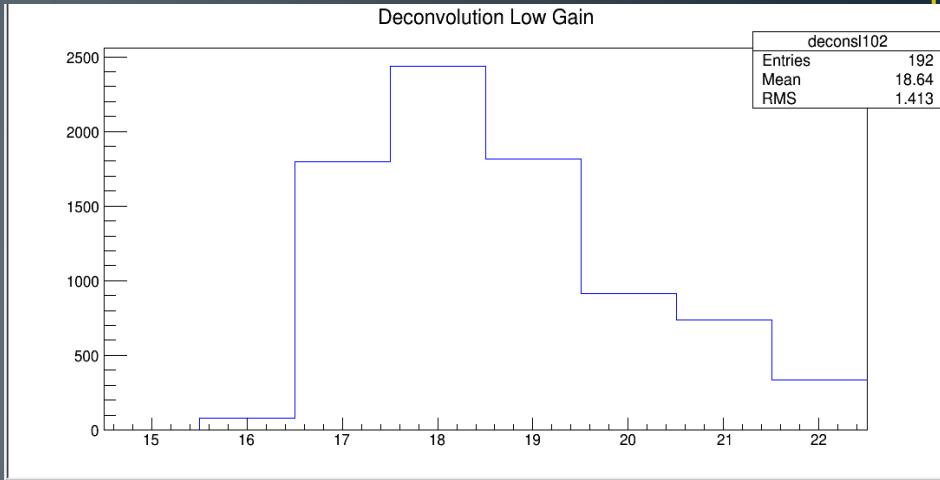
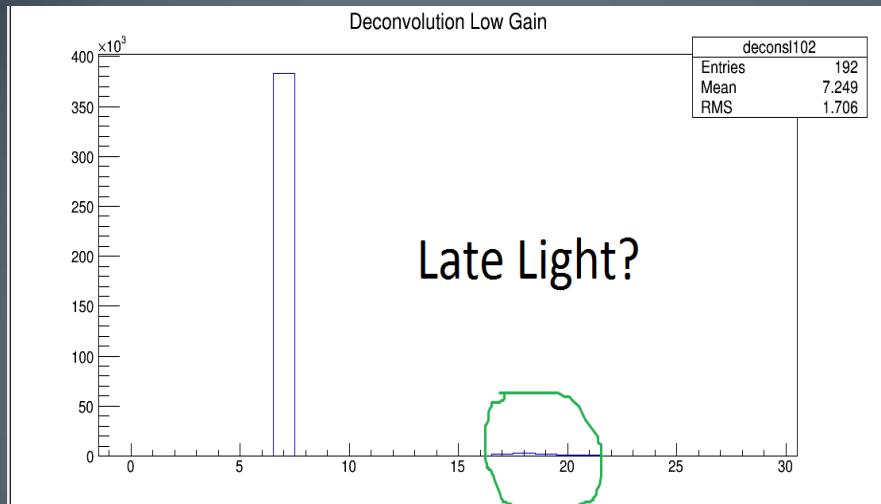
# Normalized Peak Heights



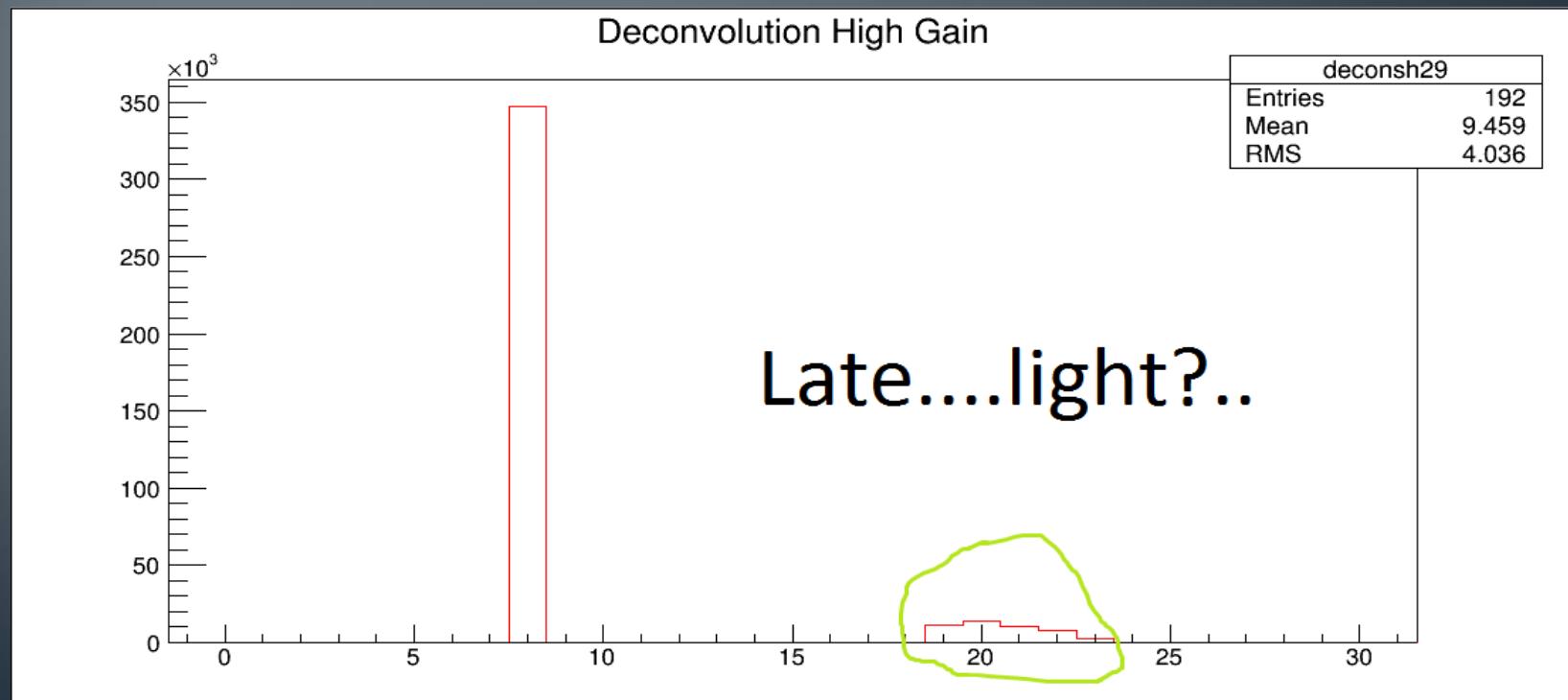
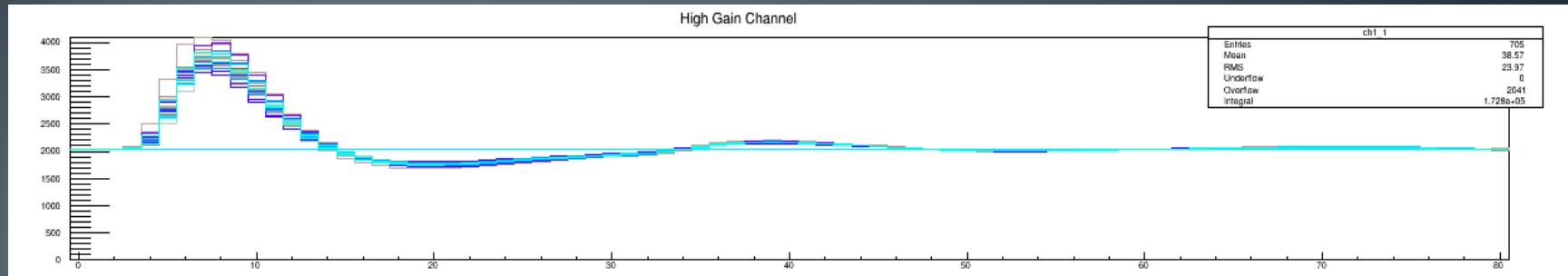
# Normalized by Area



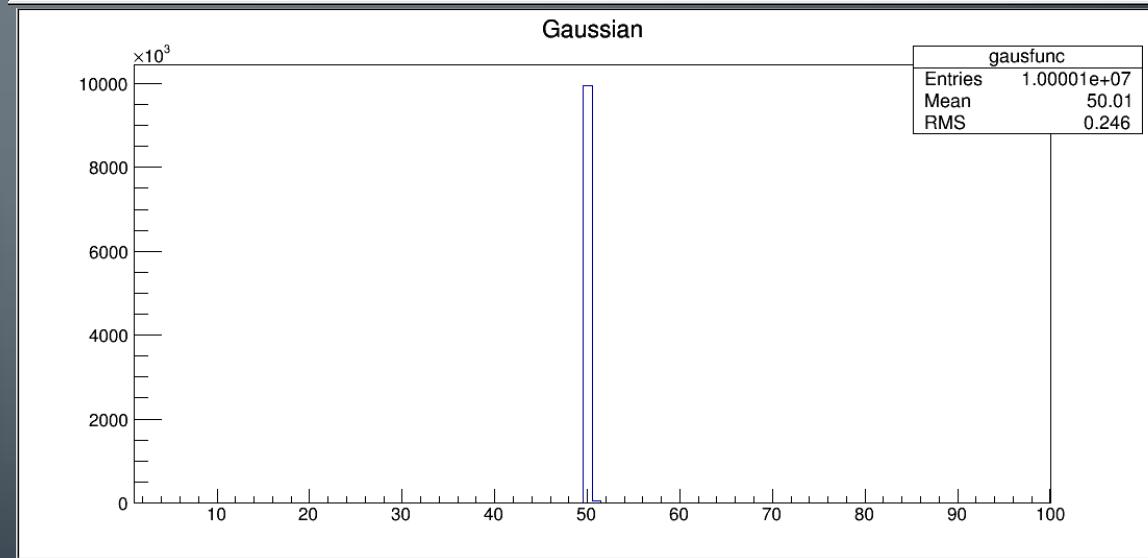
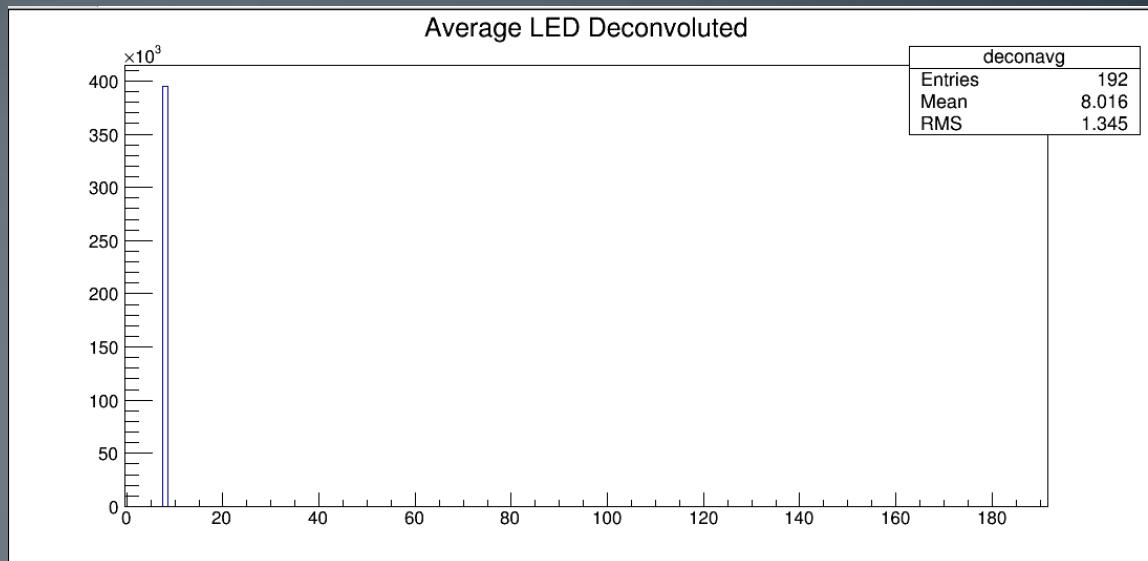
# Deconvoluted Cosmics!



# Deconvoluted... LEDs?



# And Yet....



# Interesting Facts:

- Uses Gold's deconvolution algorithm, Richardson-Lucy is also available but not as sensitive. (Also shot the Gaussian to infinity at some points)
- Low-Gain has much more variety, but also harder to find
- There IS some variety in the High Gain, but most follow that same shape and have the same ADC value at the same point
- For 50 cosmics, 11 low gain have something in that area, all different values. 27 Have something in that area, all with the same value (10695.5)

