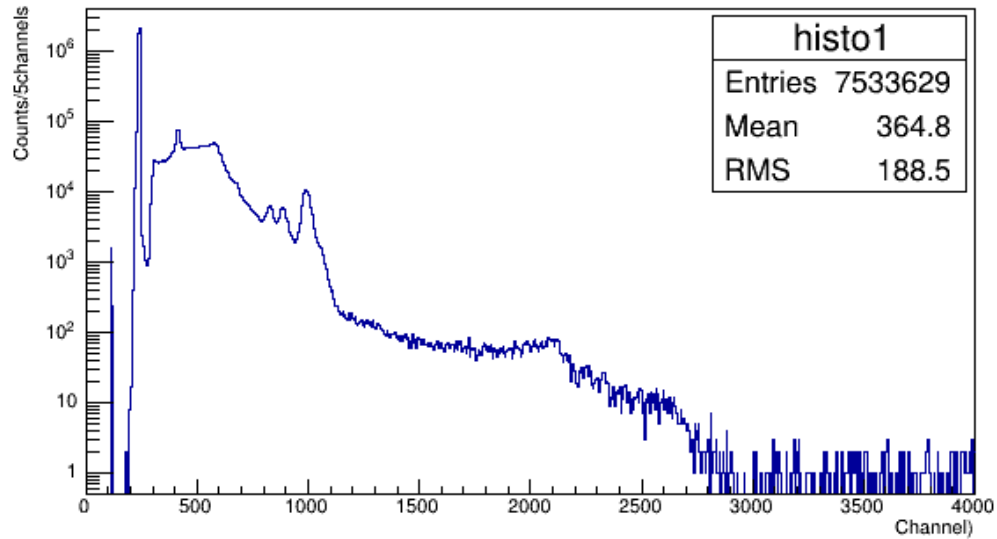


# Brief Progress on the Current Ongoing Experiment

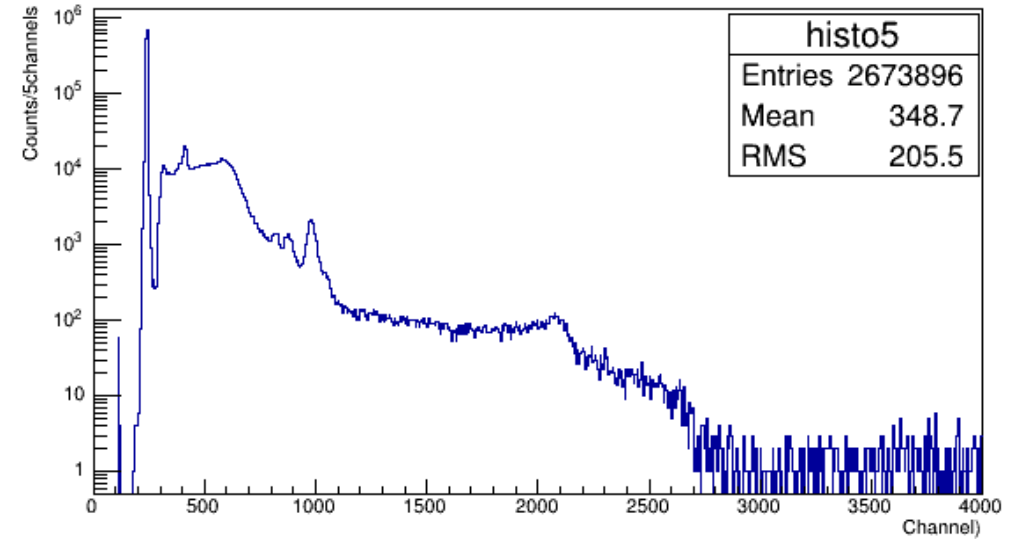
I.J Lugendo,  
Lab Meeting, 10/05/2017

# Raw Spectra Obtained from Detectors

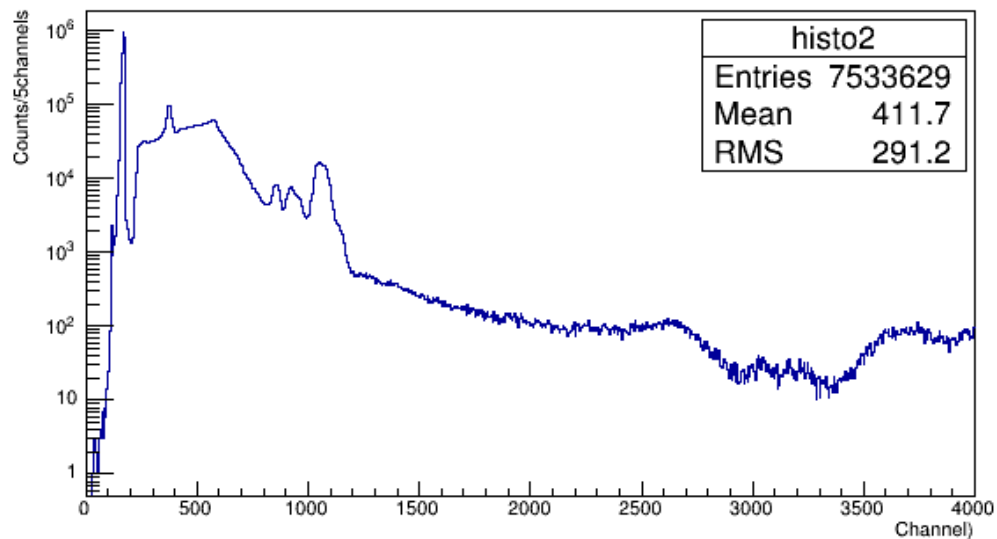
D1 at 300K



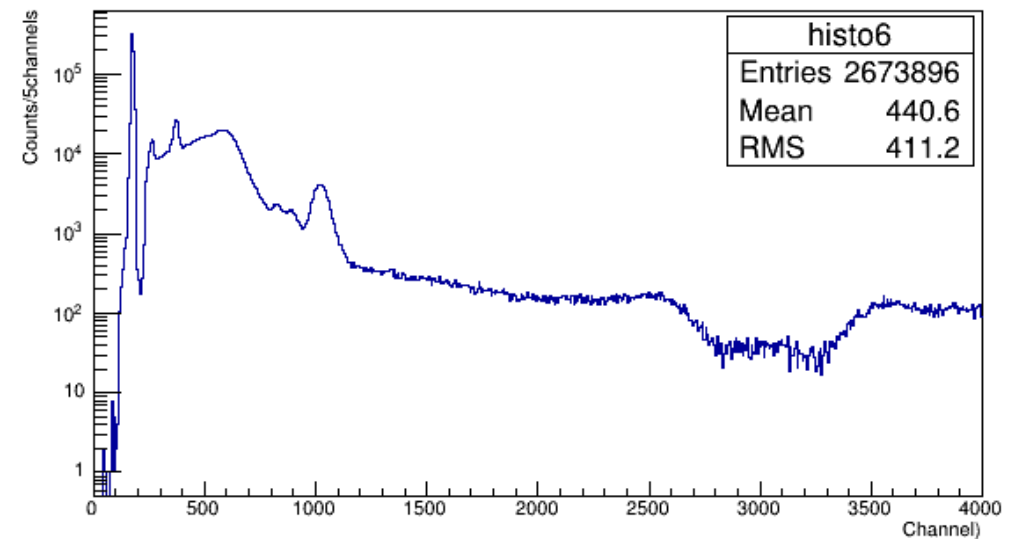
D1 at 38K



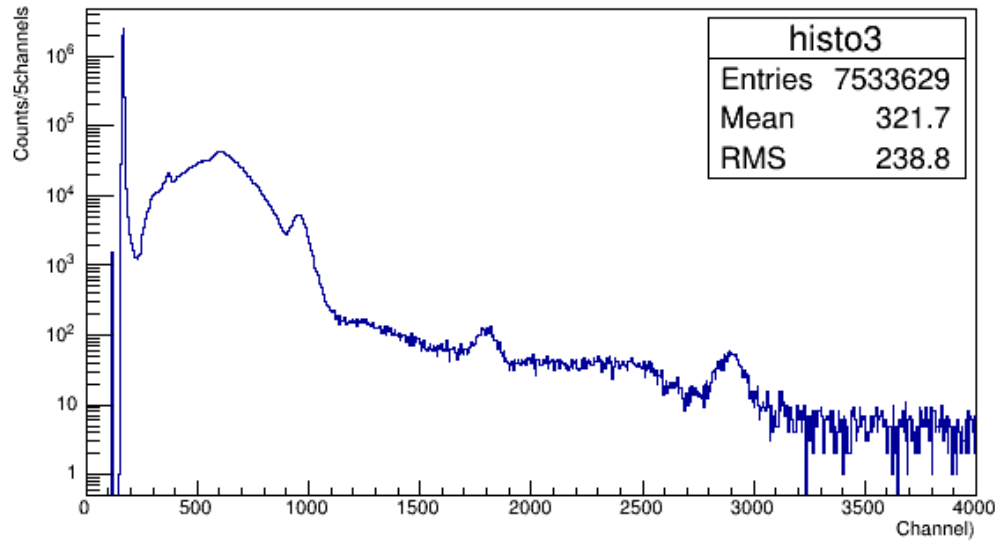
D2 at 300K



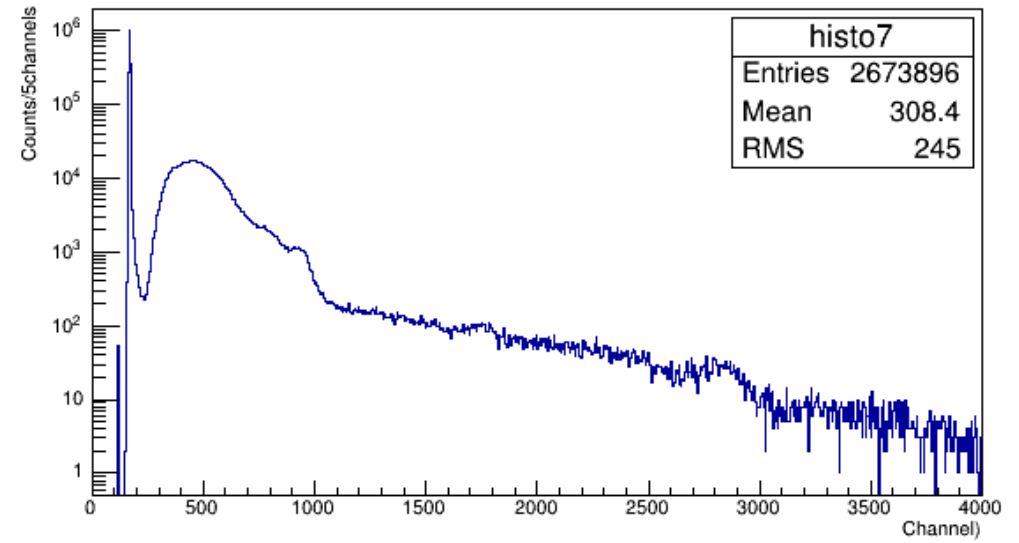
D2 at 38K



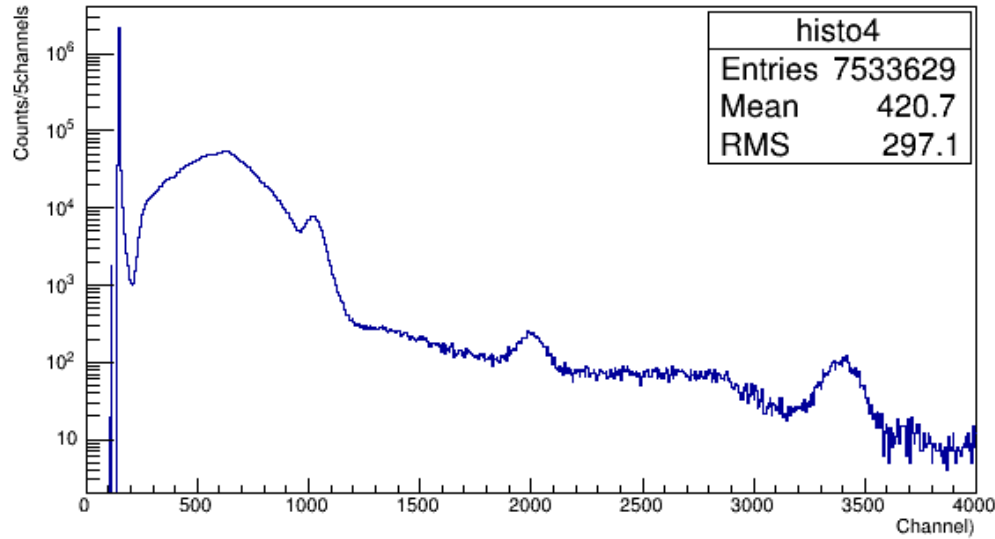
D3 at 300K



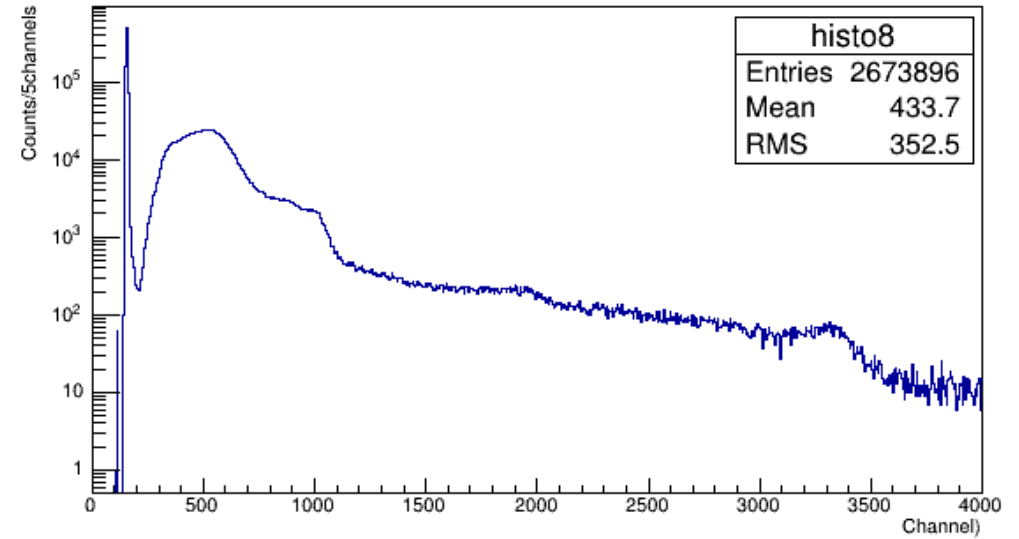
D3 at 38K



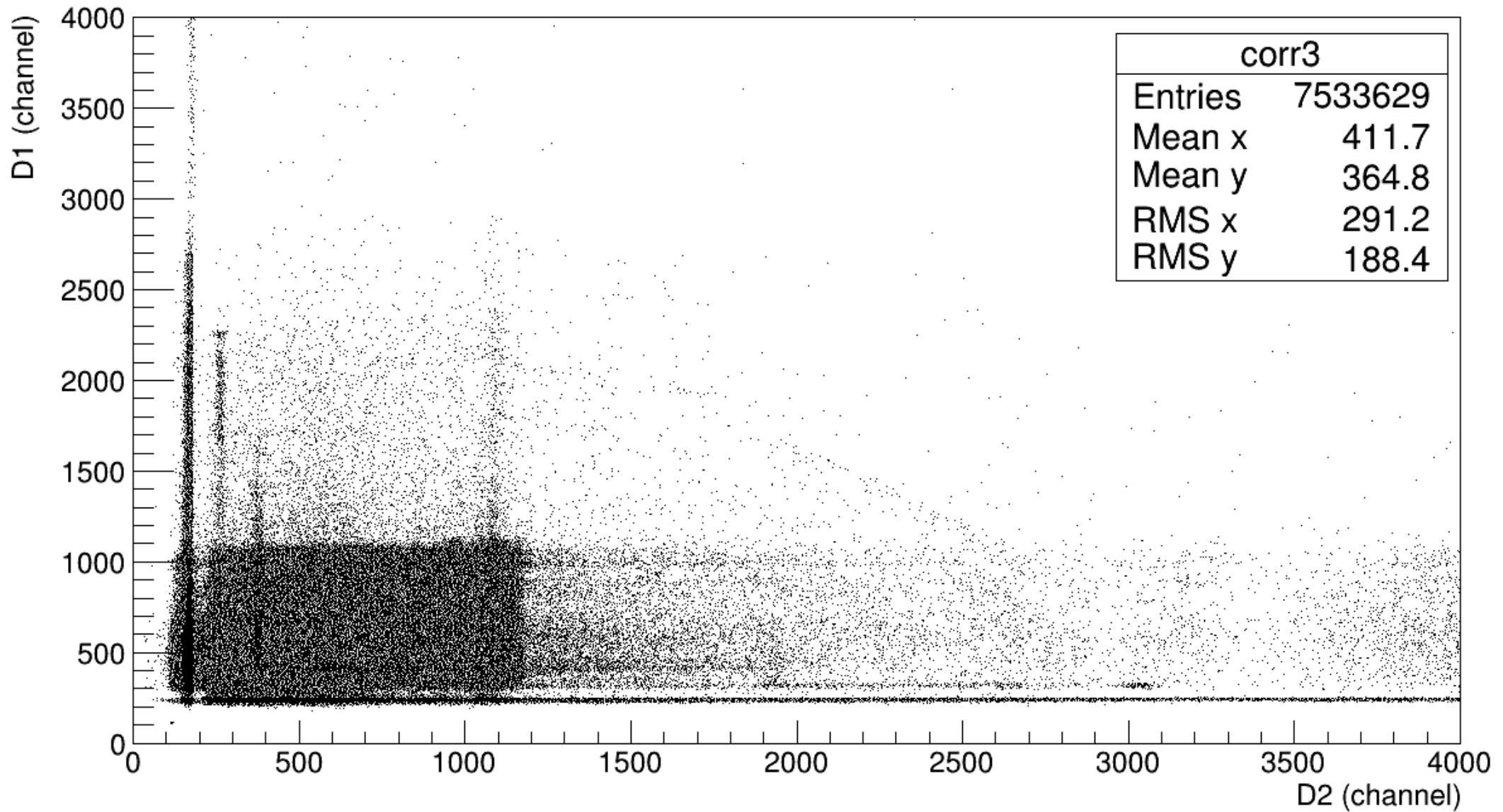
D4 at 300K



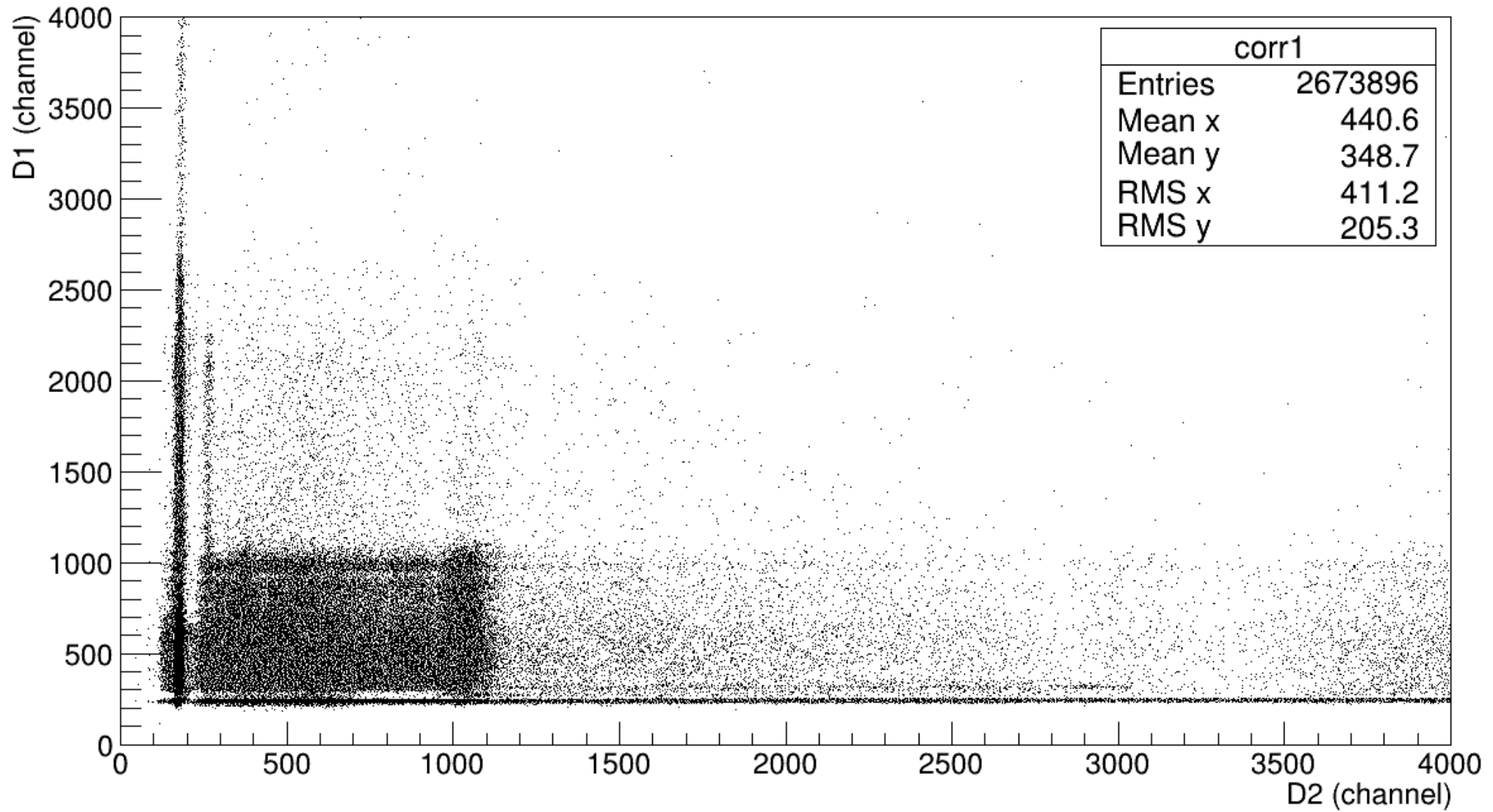
D4 at 38K



# D1:D2 at 300 K

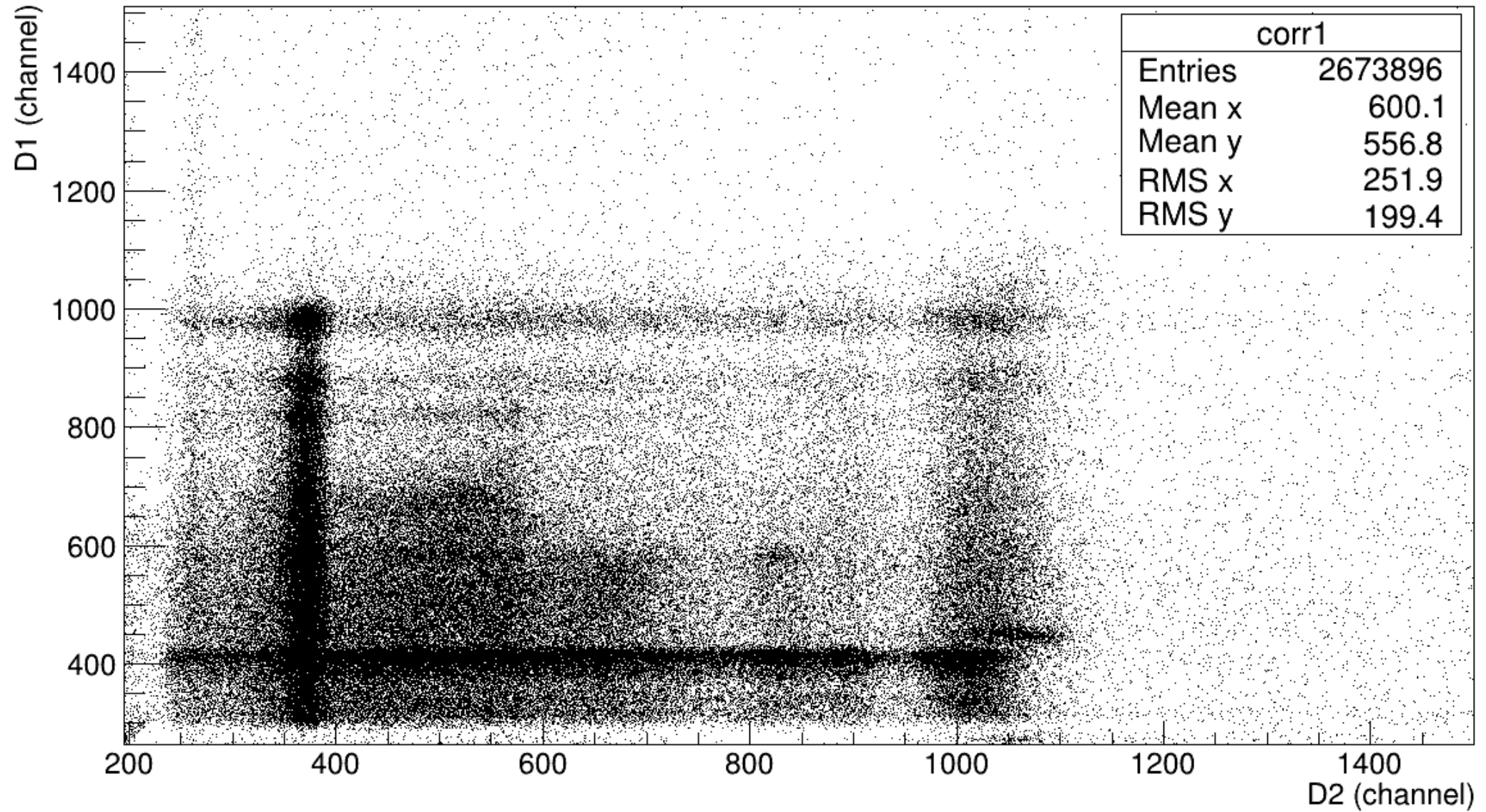


# D1:D2 at 38 K

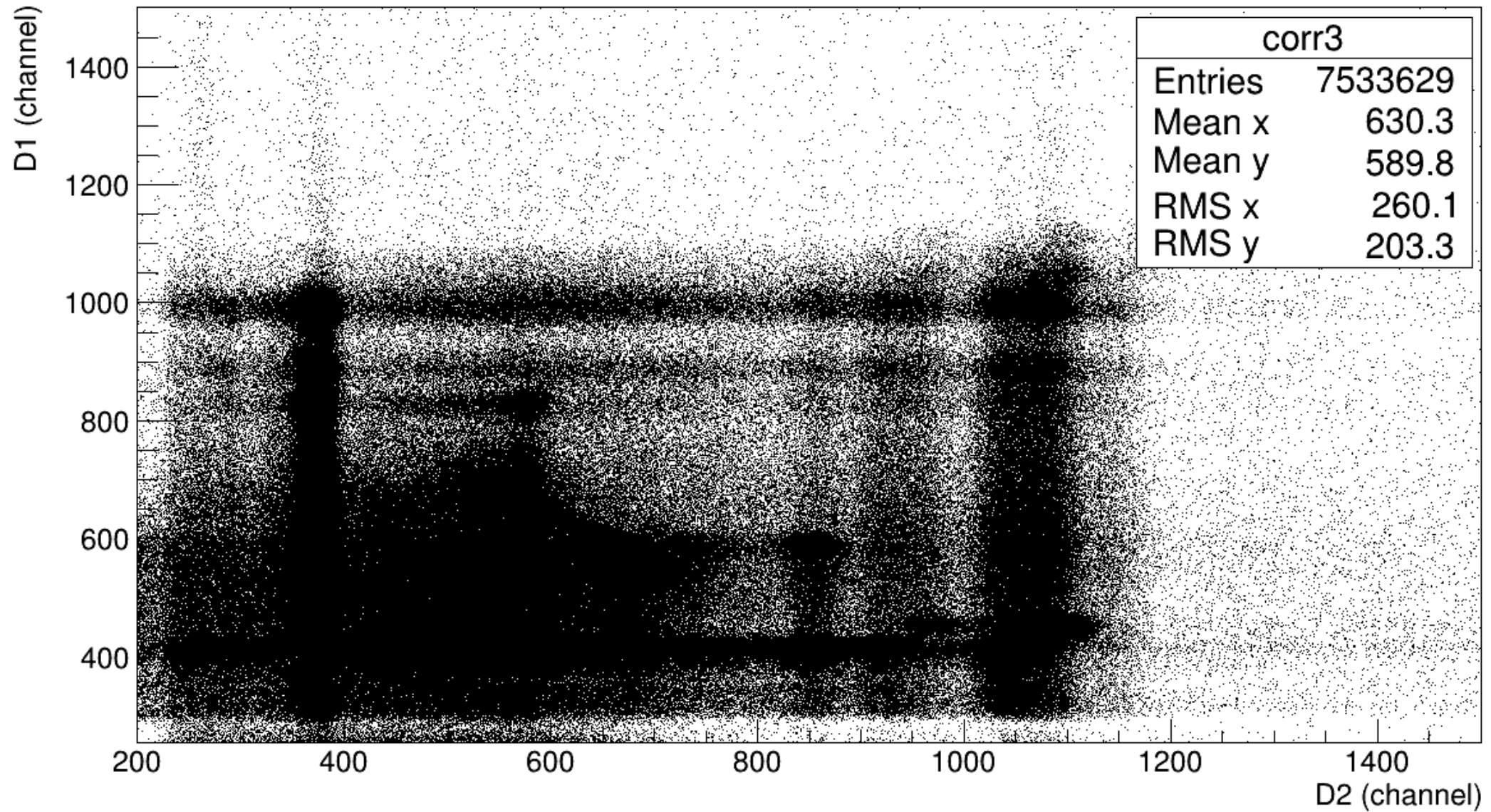




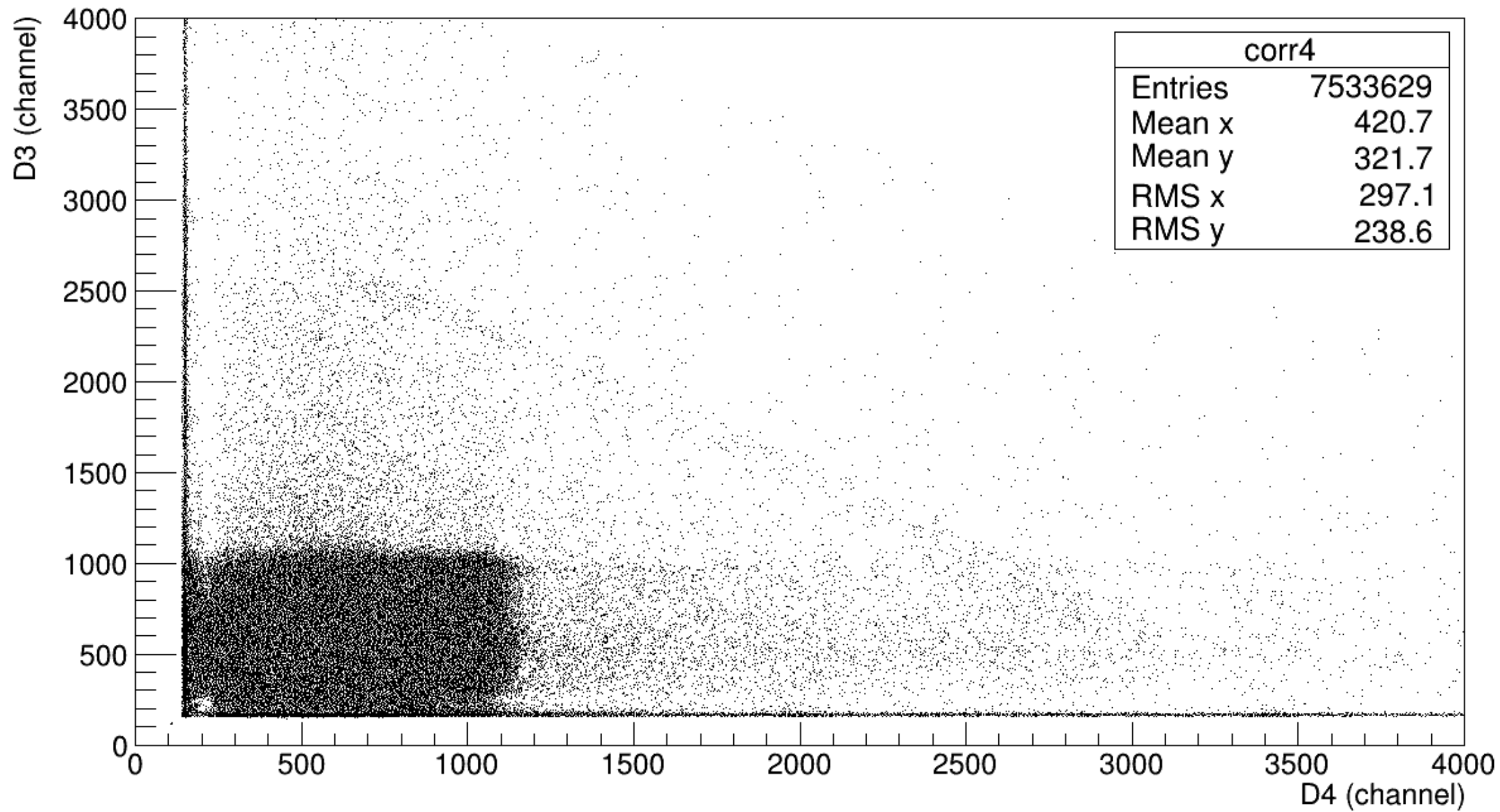
# D1:D2 at 38 K



# D1:D2 at 300 K

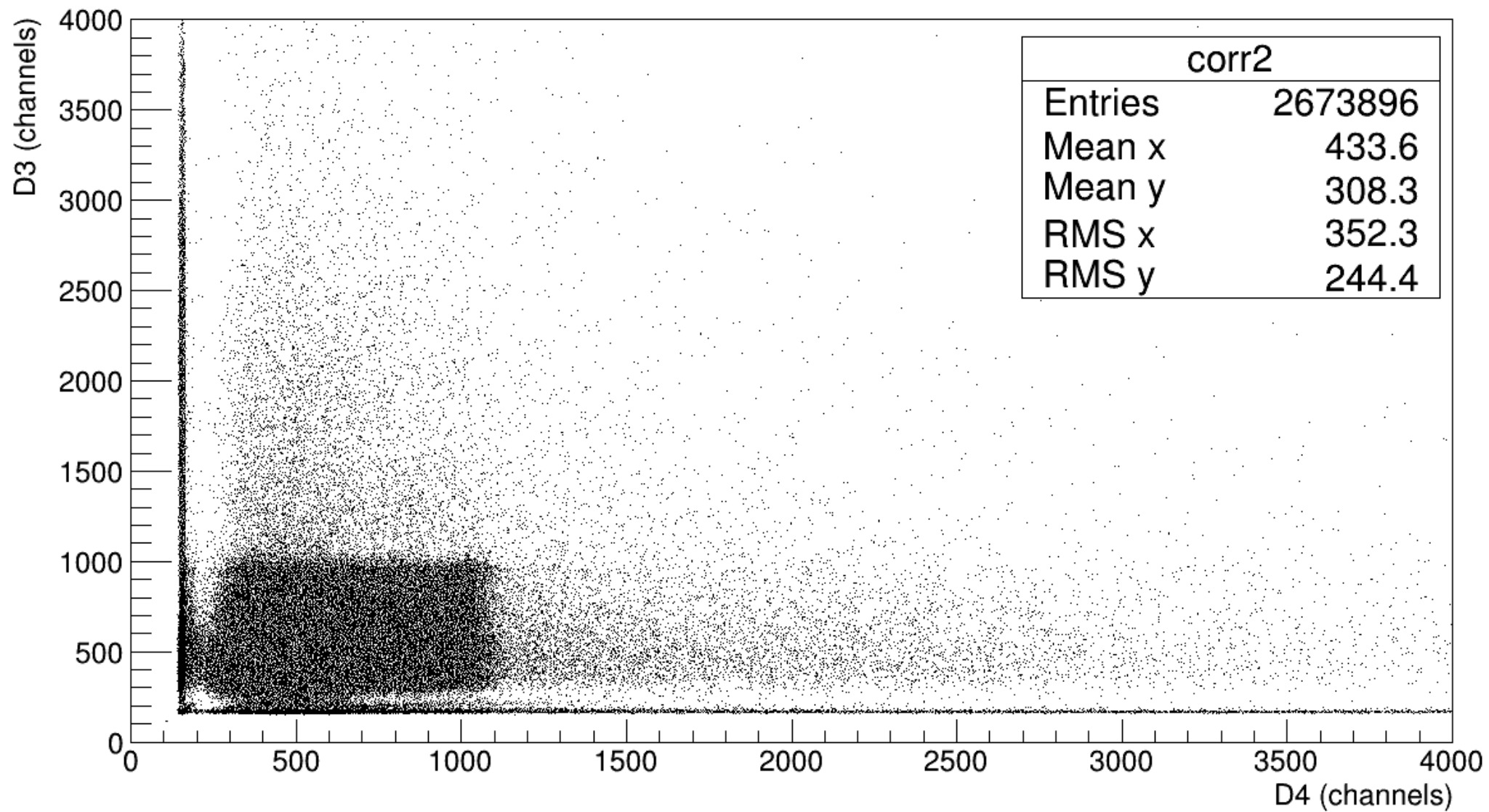


# D3:D4 at 300 K

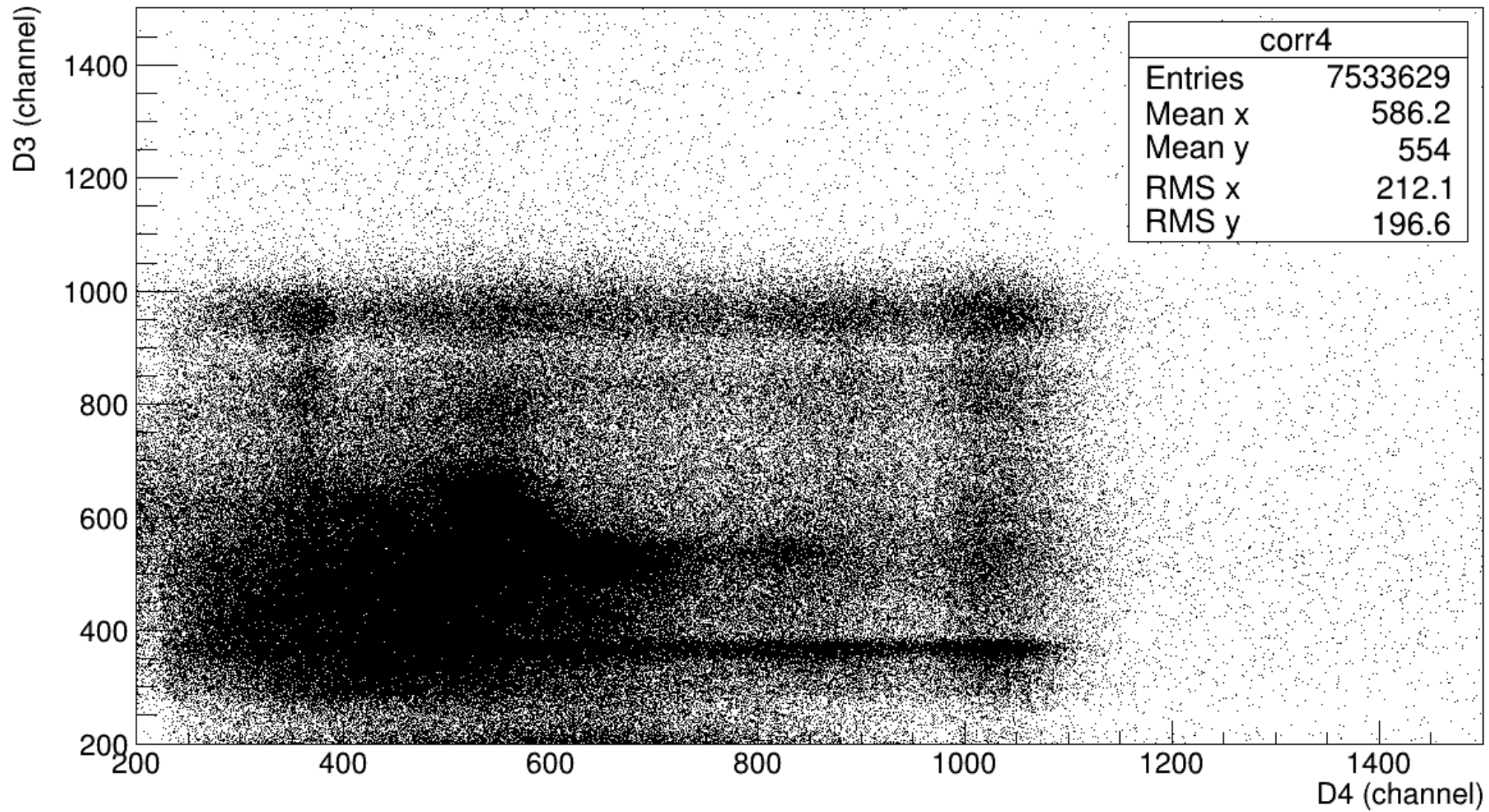




# D3:D4 at 38 K

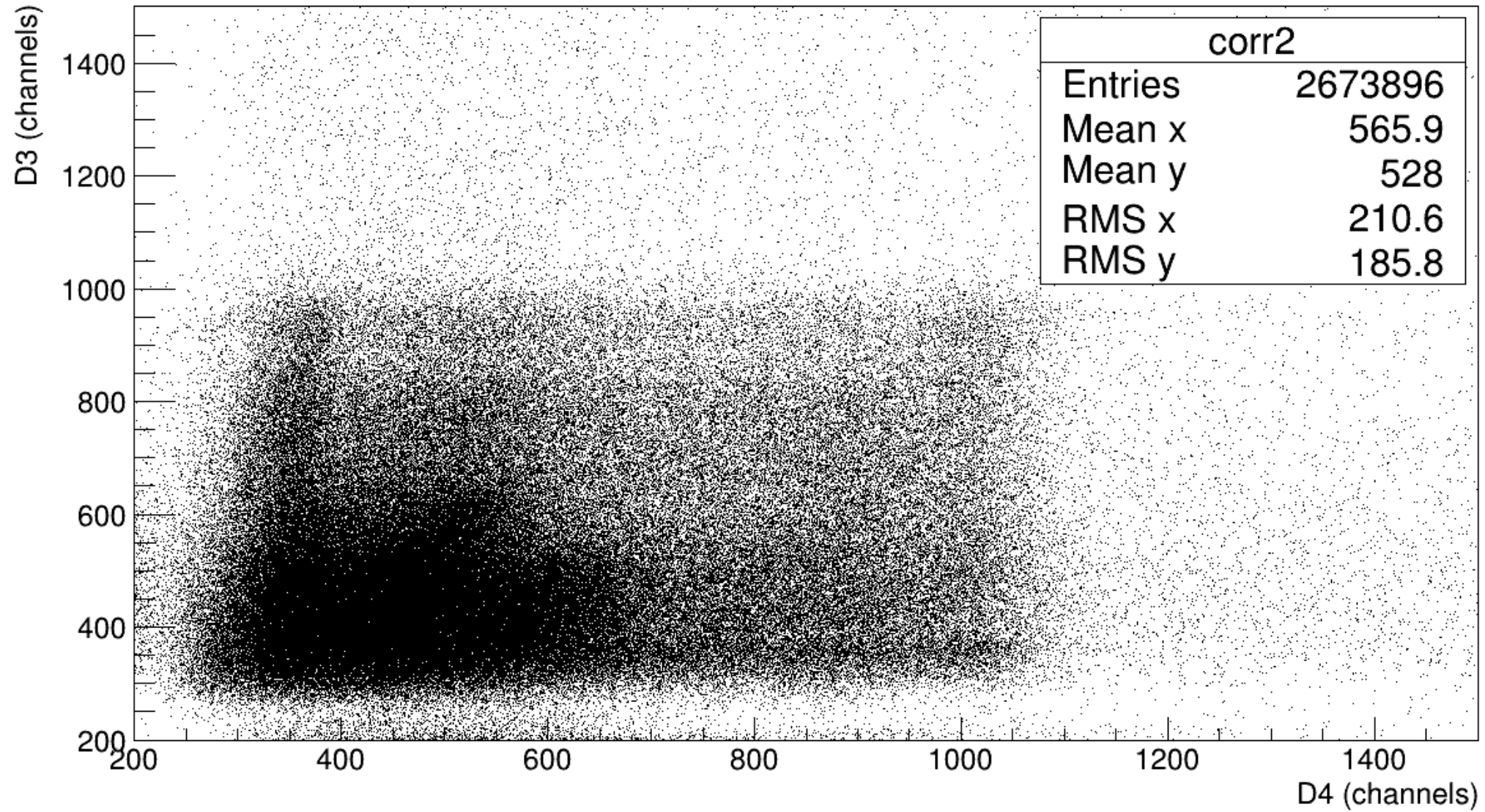


# D3:D4 at 300 K

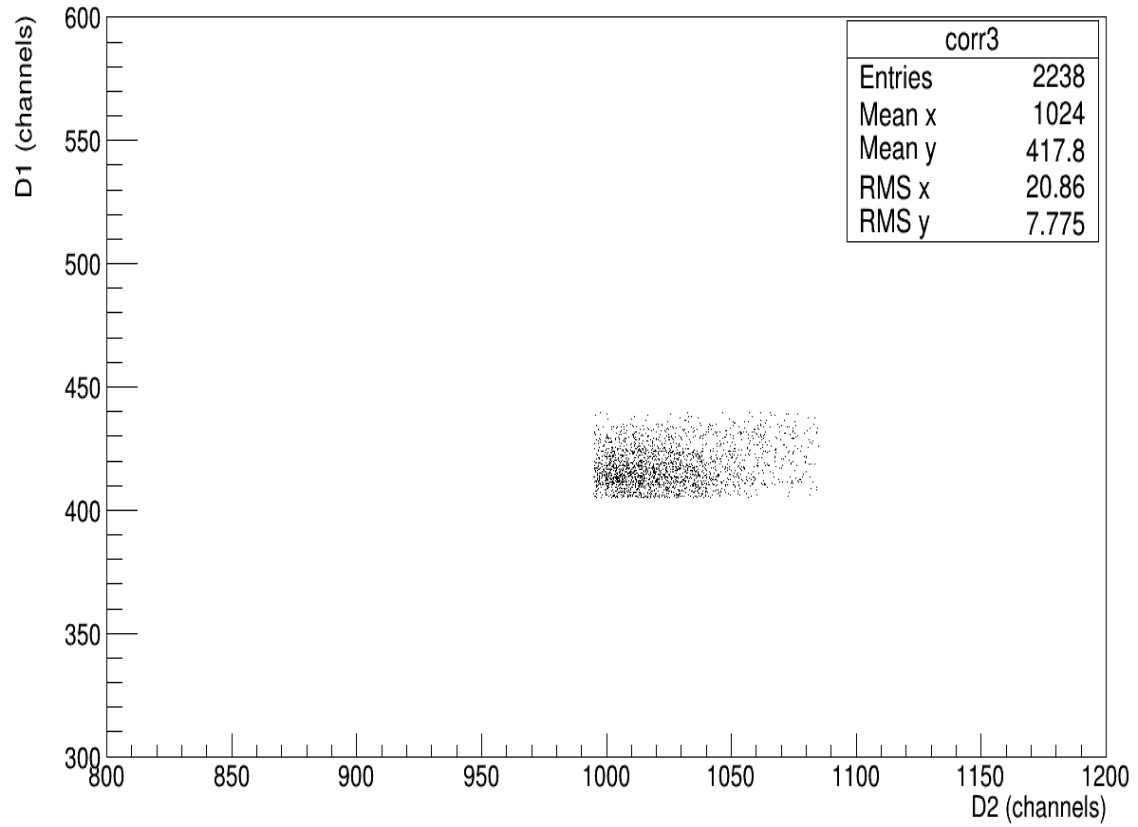




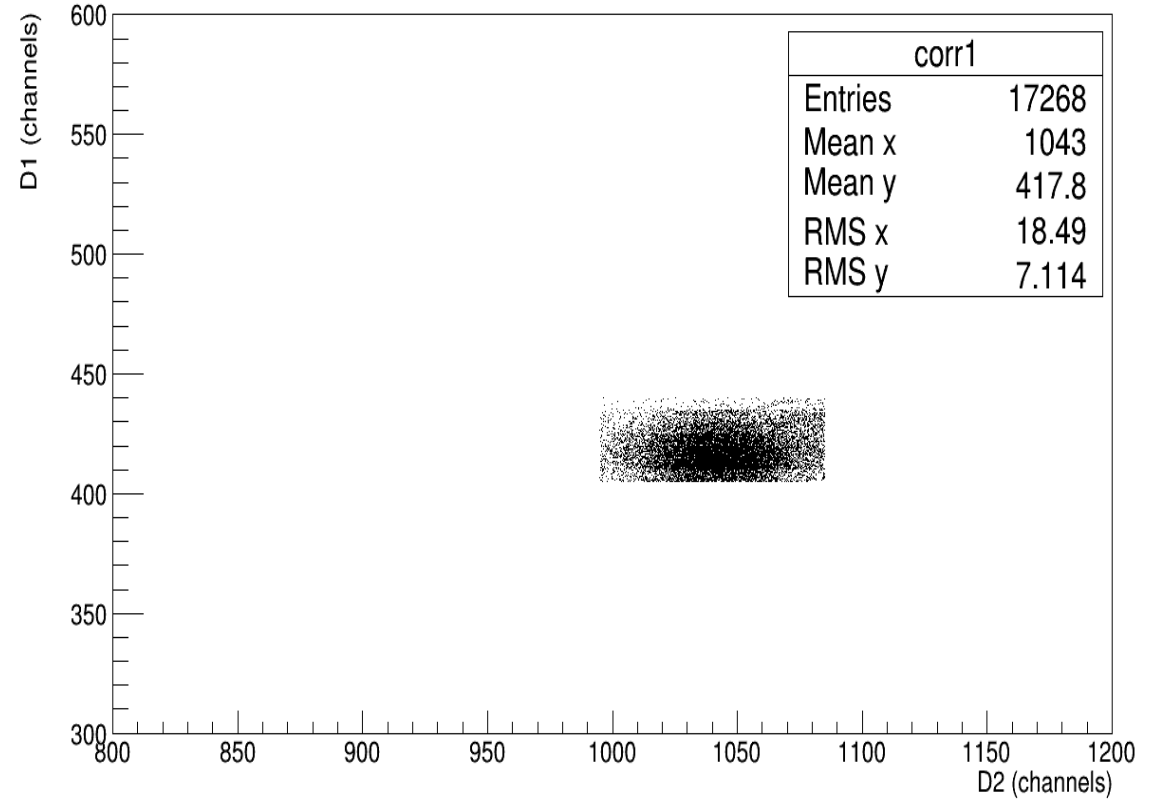
# D3:D4 at 38 K



D1:D2 at 38K

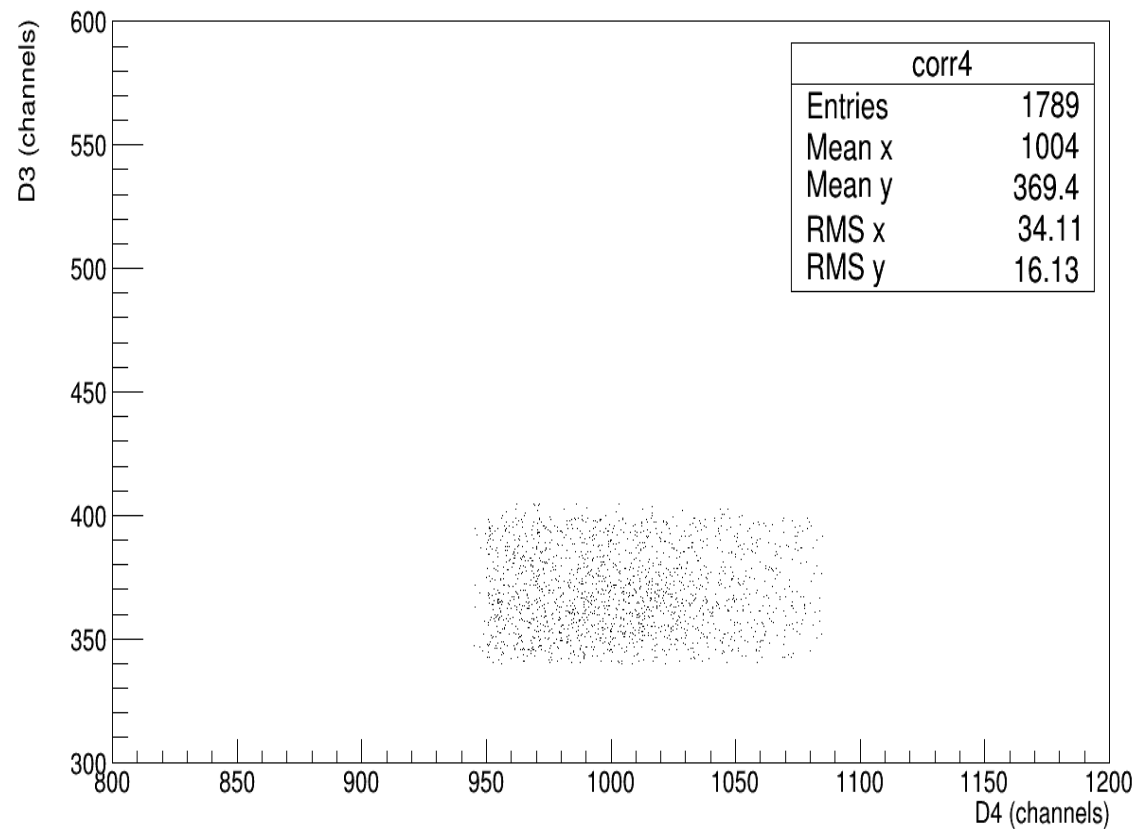


D1:D2 at 300K

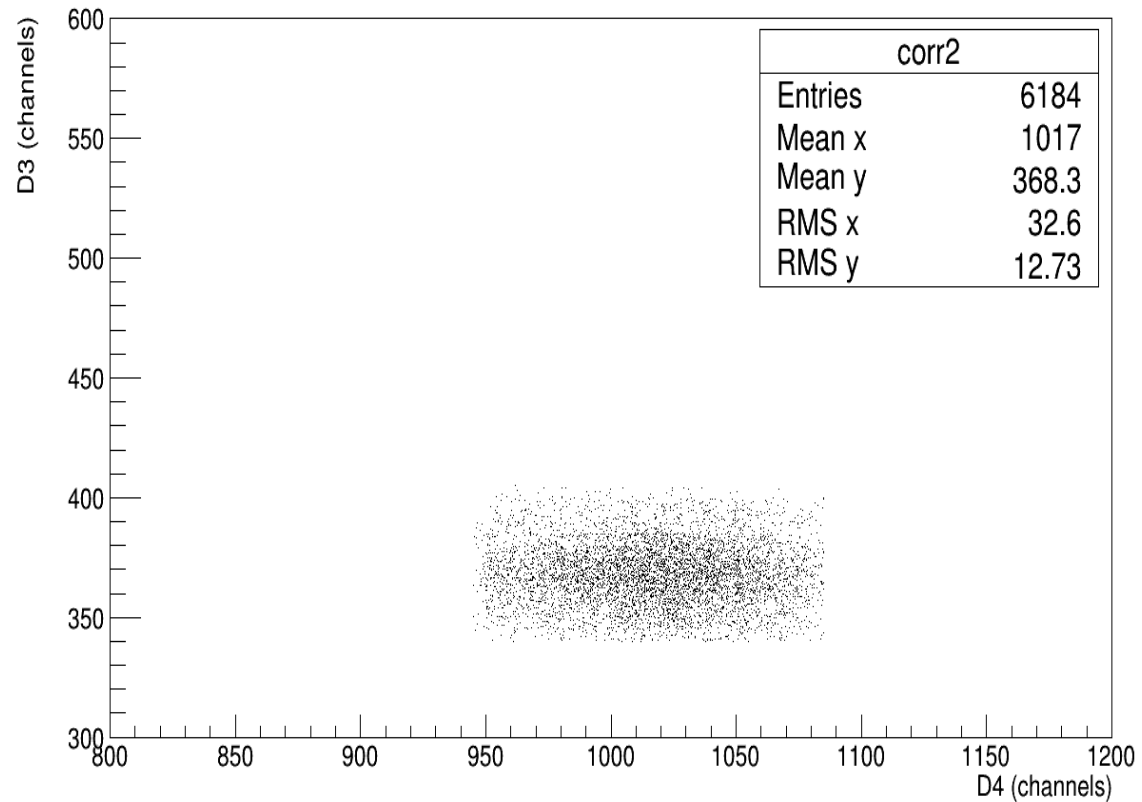




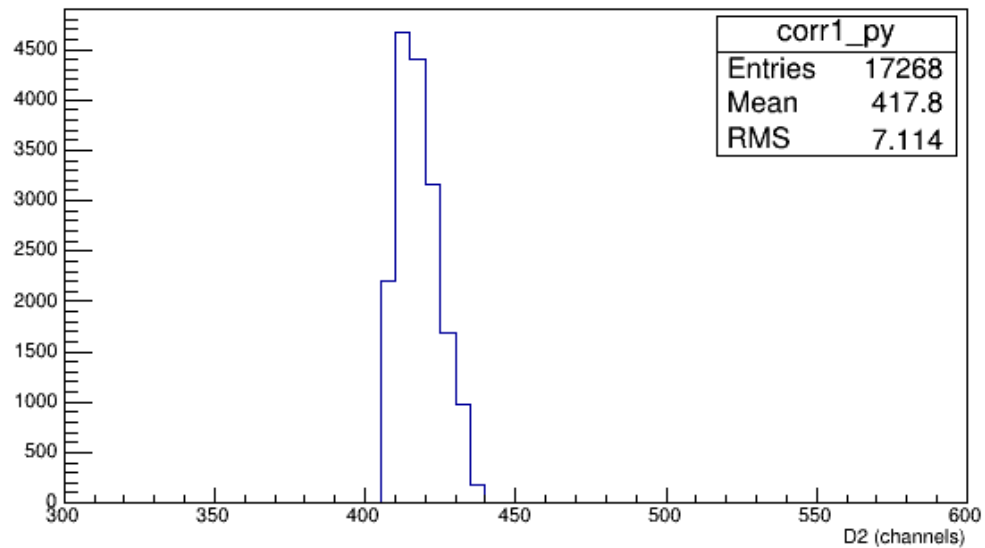
D3:D4 at 38K



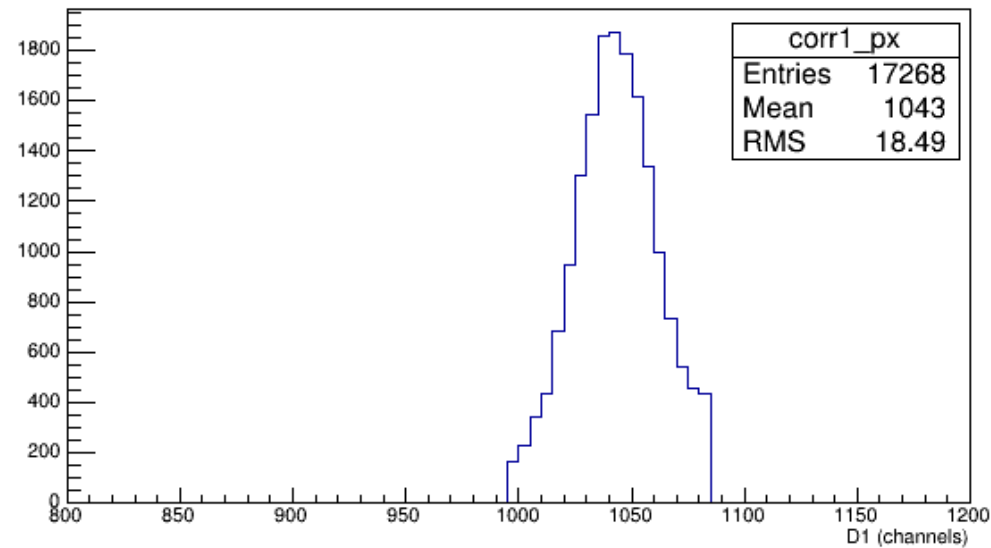
D3:D4 at 300K



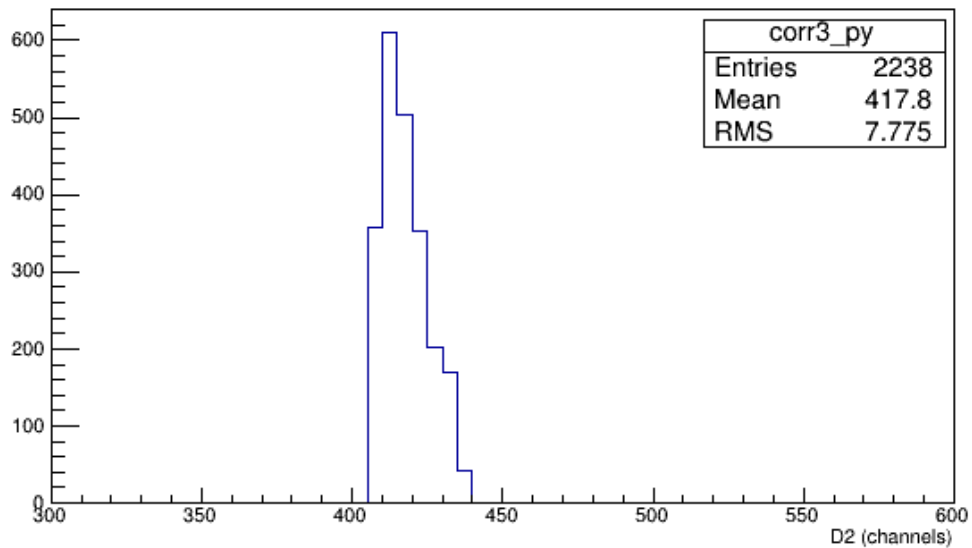
D1:D2 at 300K



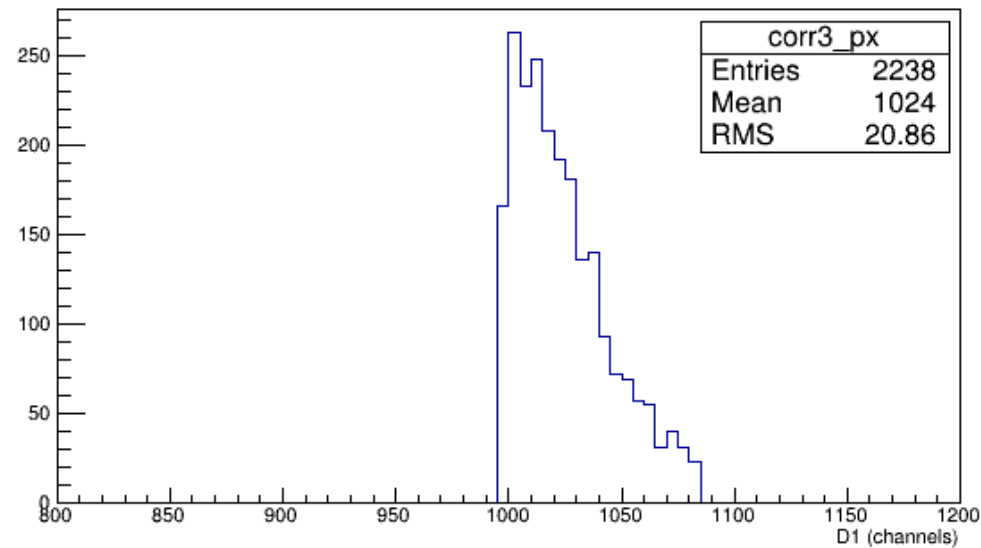
D1:D2 at 300K



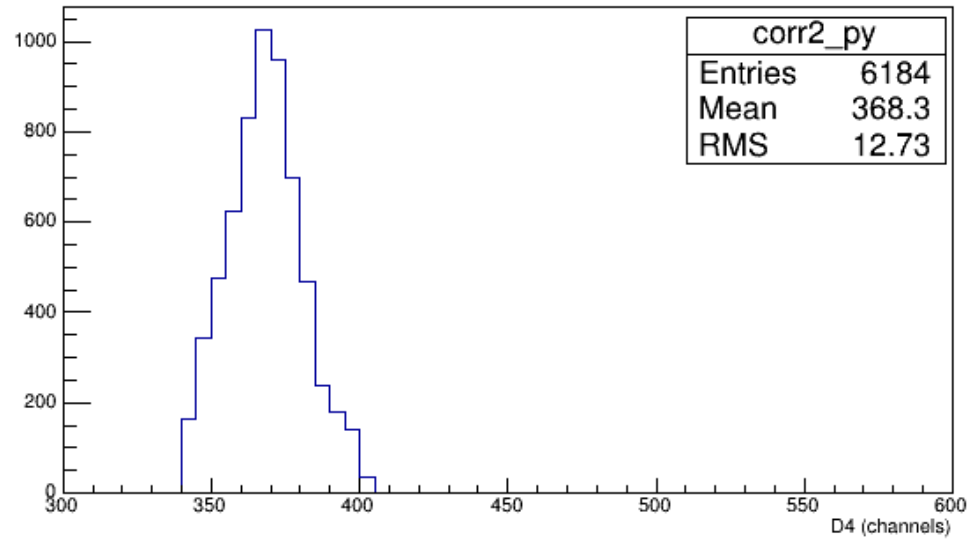
D1:D2 at 38K



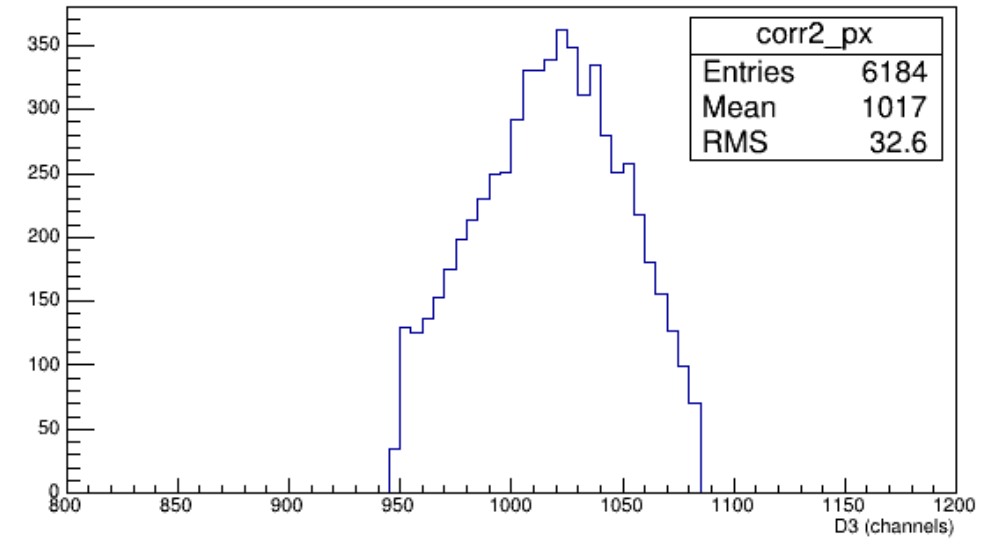
D1:D2 at 38K



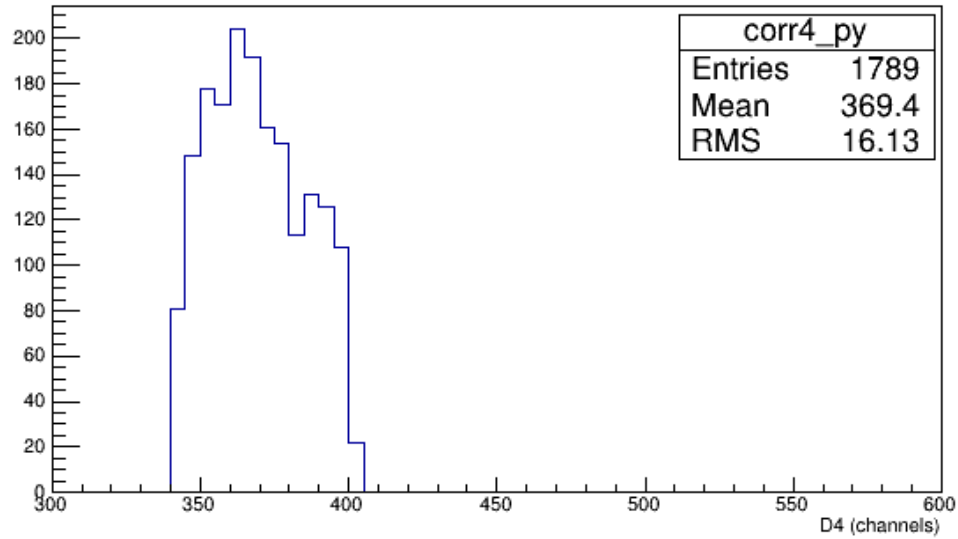
D3:D4 at 300K



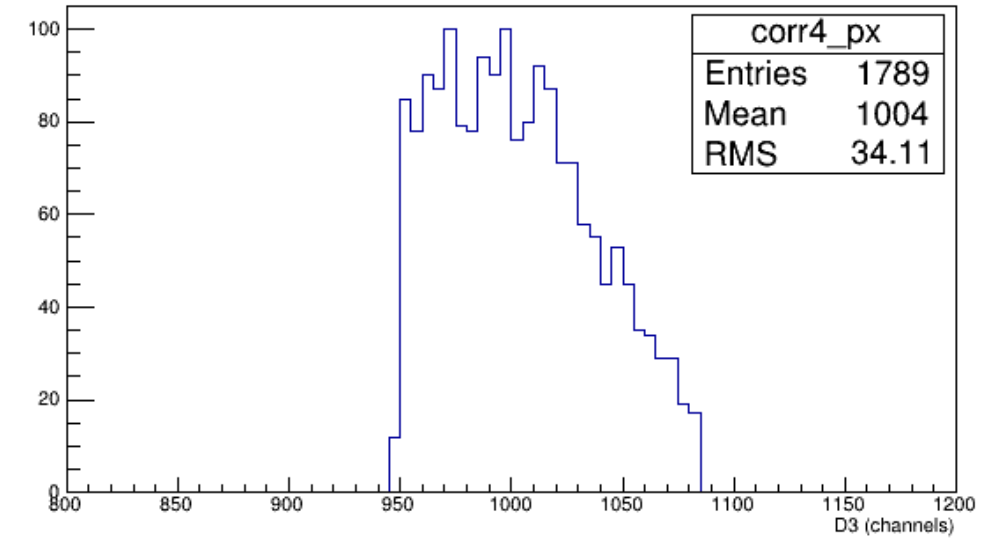
D3:D4 at 300K



D3:D4 at 38K

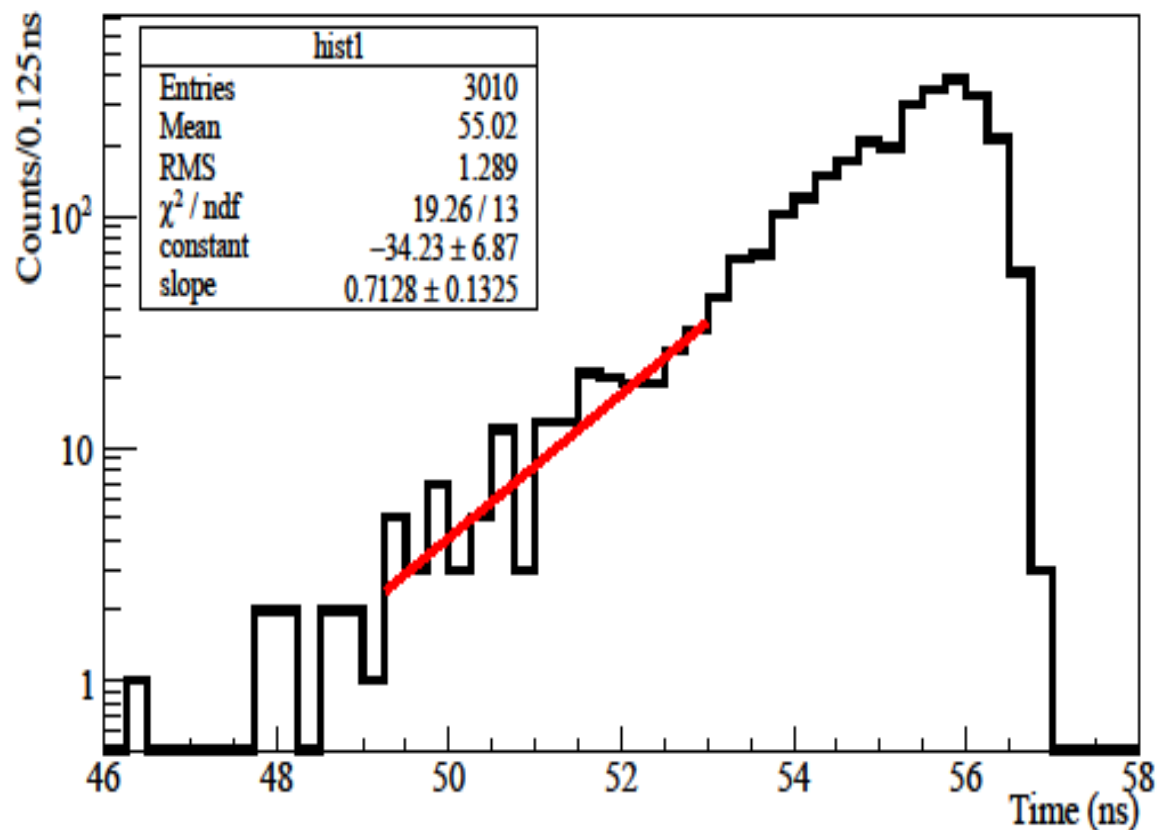


D3:D4 at 38K

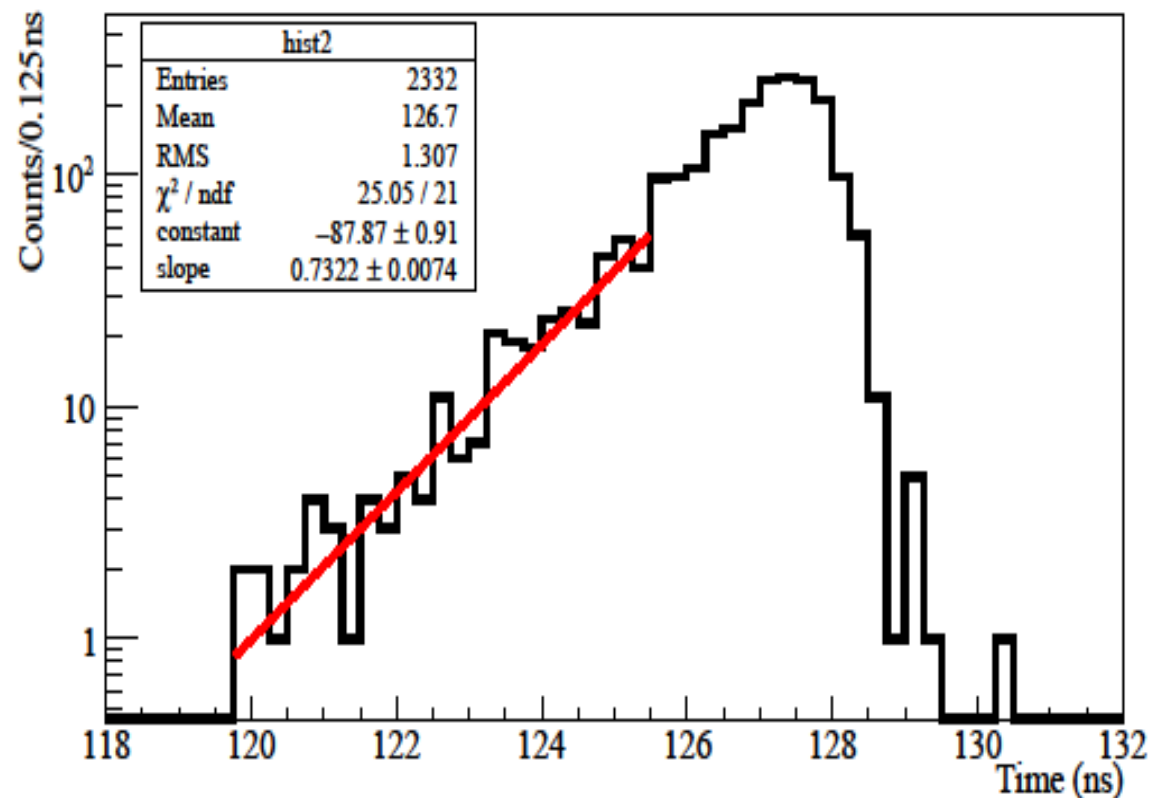


# Lifetime of 121 keV State

D1nD2 TimeSpectrum

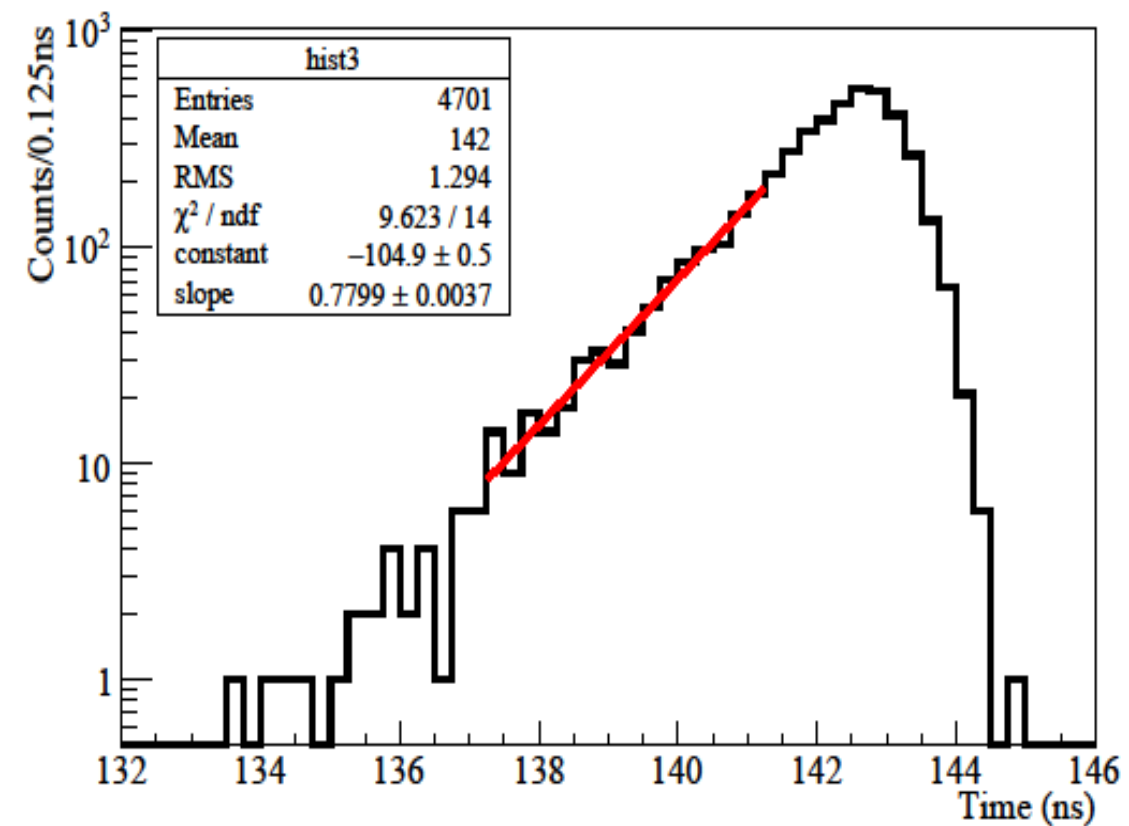


D1nD3 TimeSpectrum

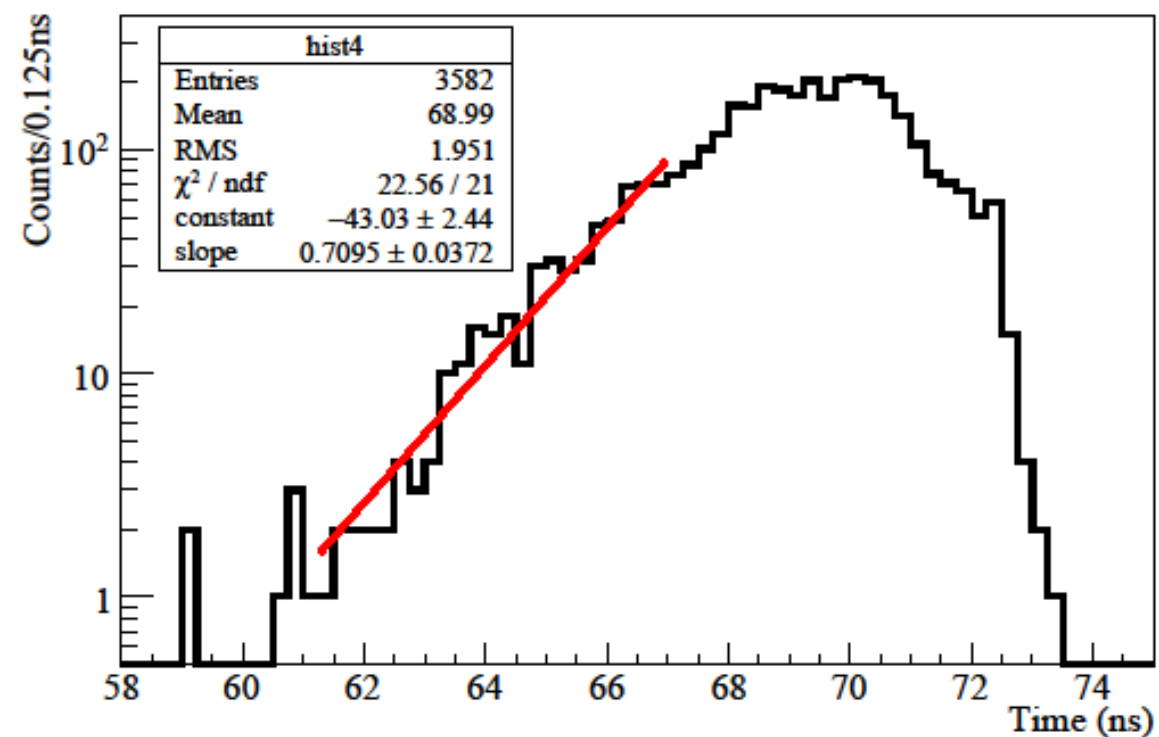




### D2nD4 TimeSpectrum

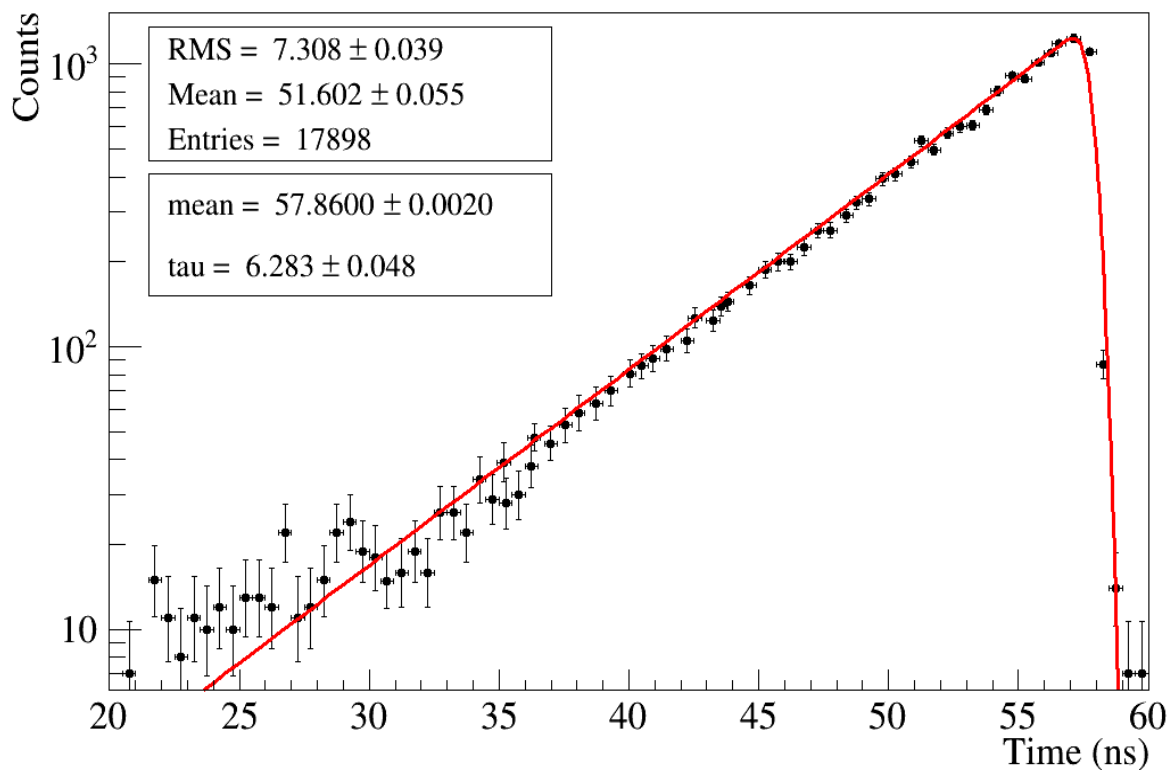


### D3nD4 TimeSpectrum

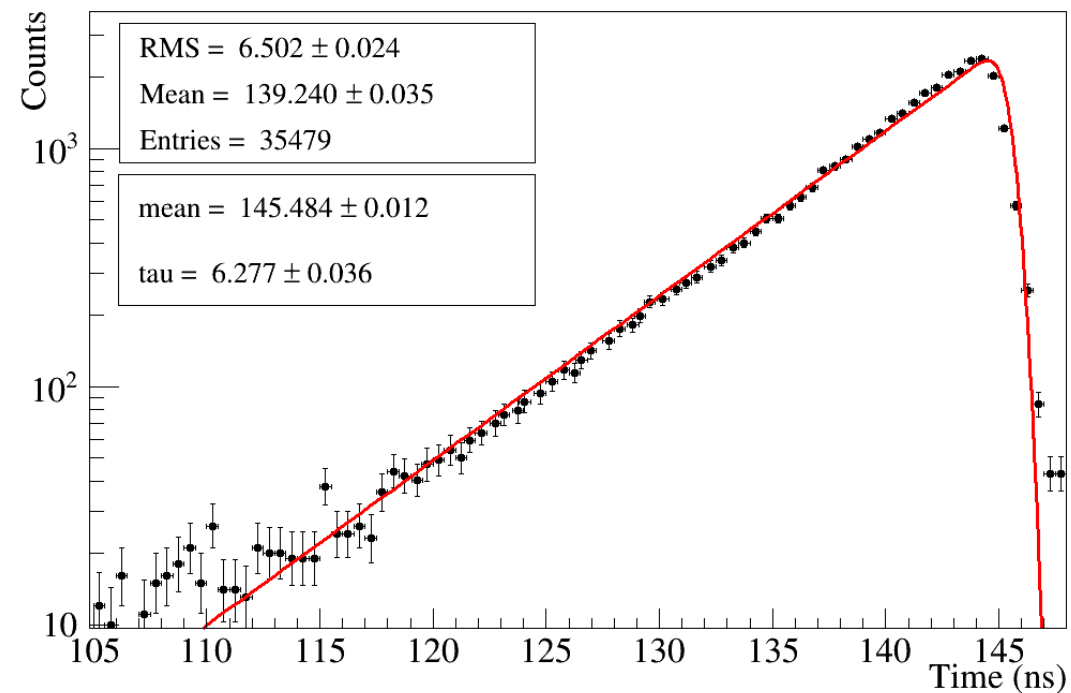


# Lifetime of 81 keV State at Room Temperature

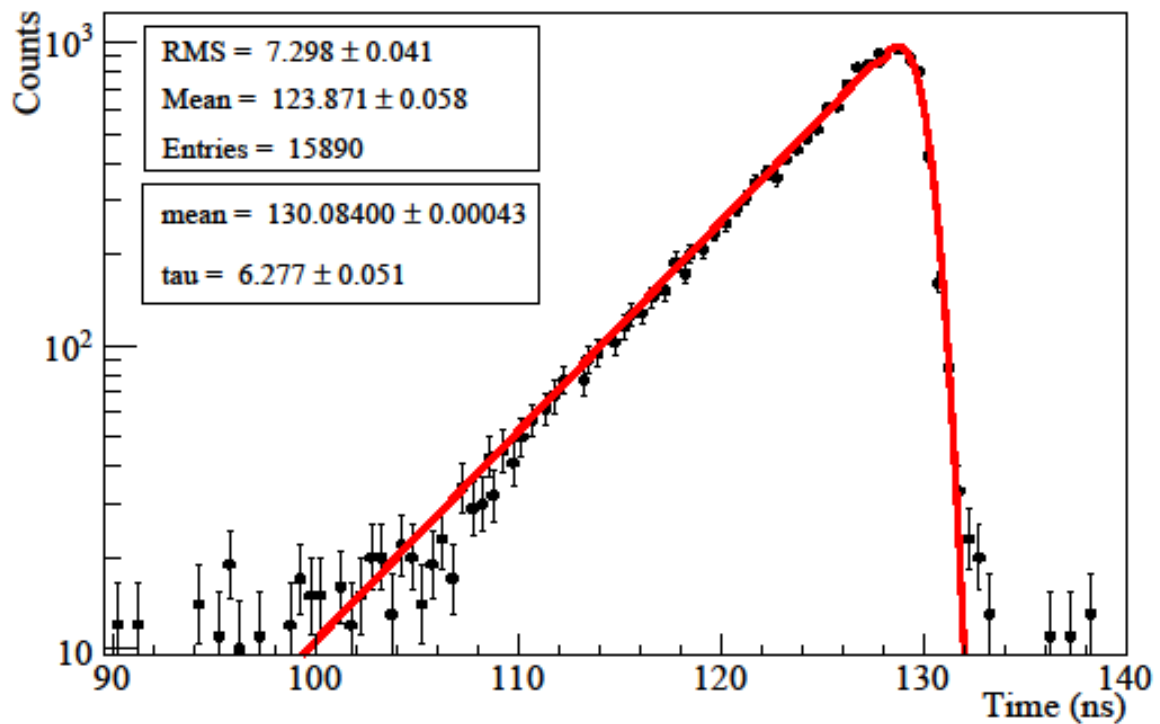
TDS from  $^{133}\text{Ba}$



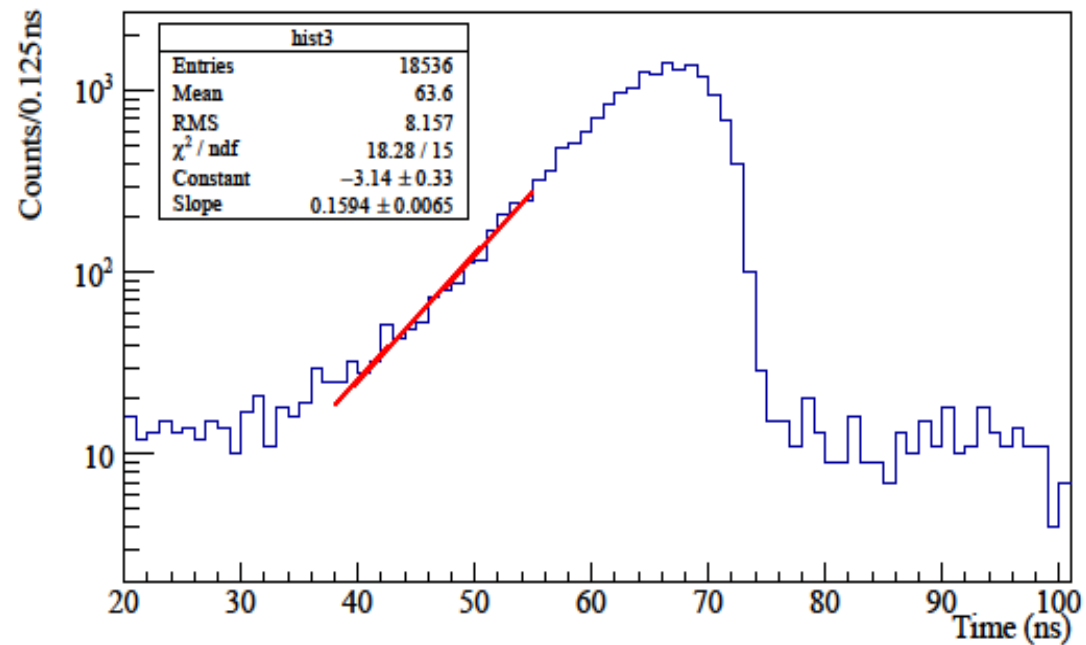
Time Spectrum by D2nD4



Time Spectrum by D1nD3

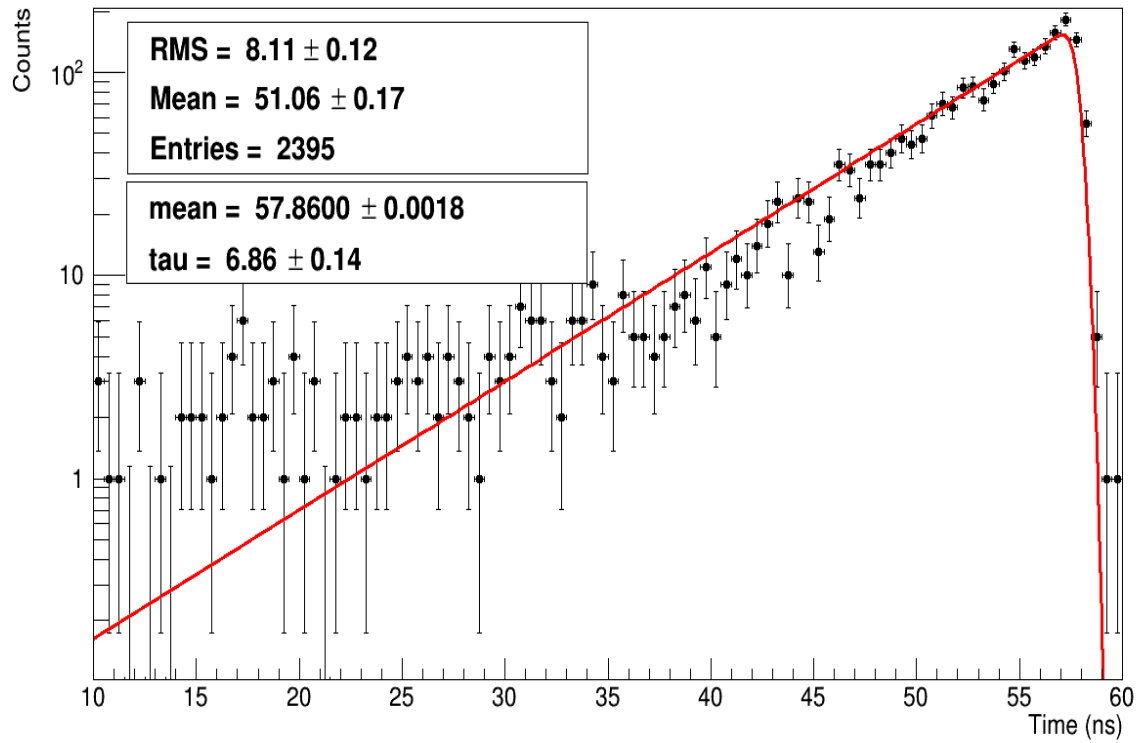


NaI TimeSpectrum using Blue TDC



# Lifetime of 81 keV State at 38 K

Time Spectrum by D1nD2



Time Spectrum by D2nD4

