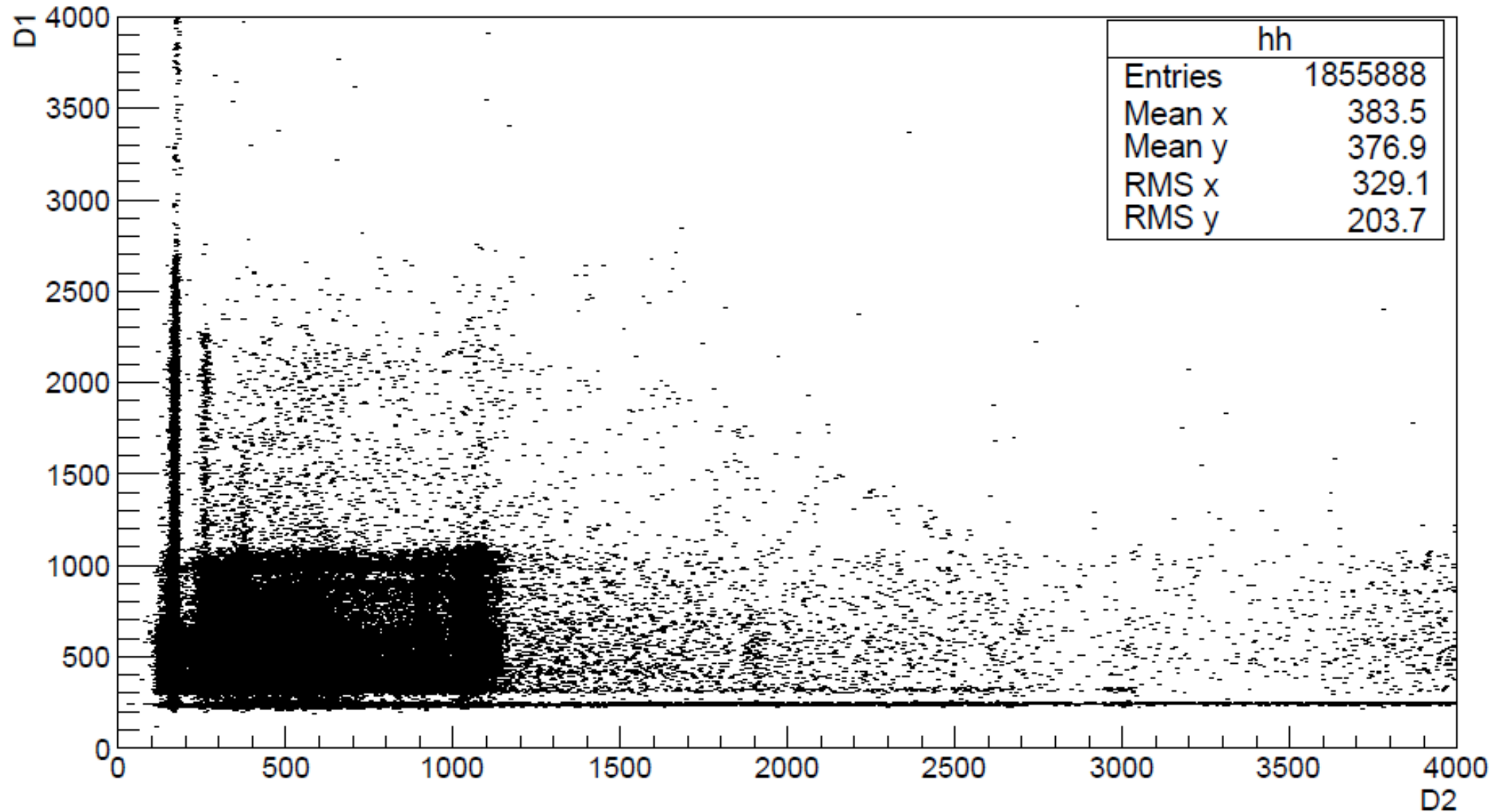
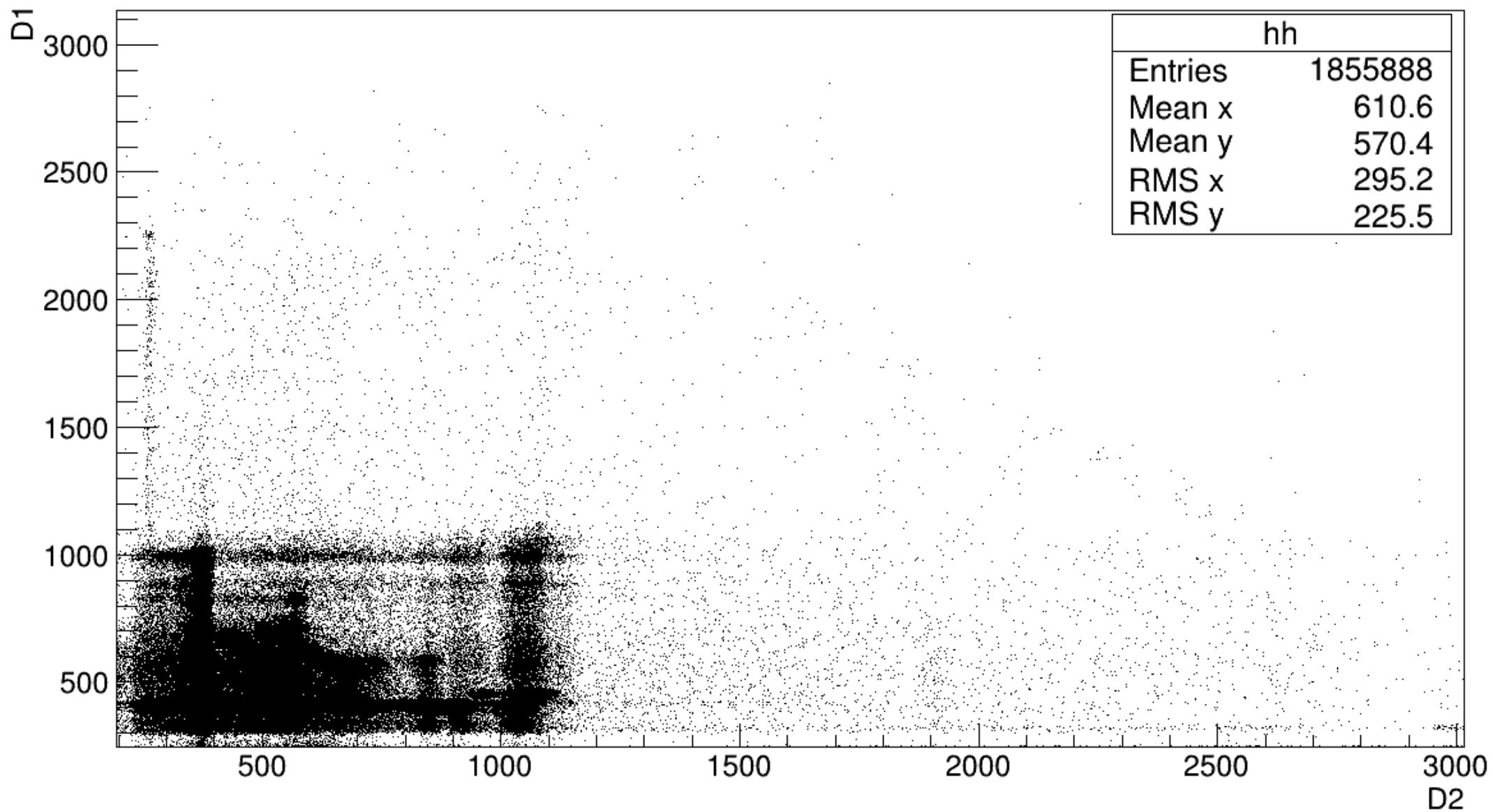


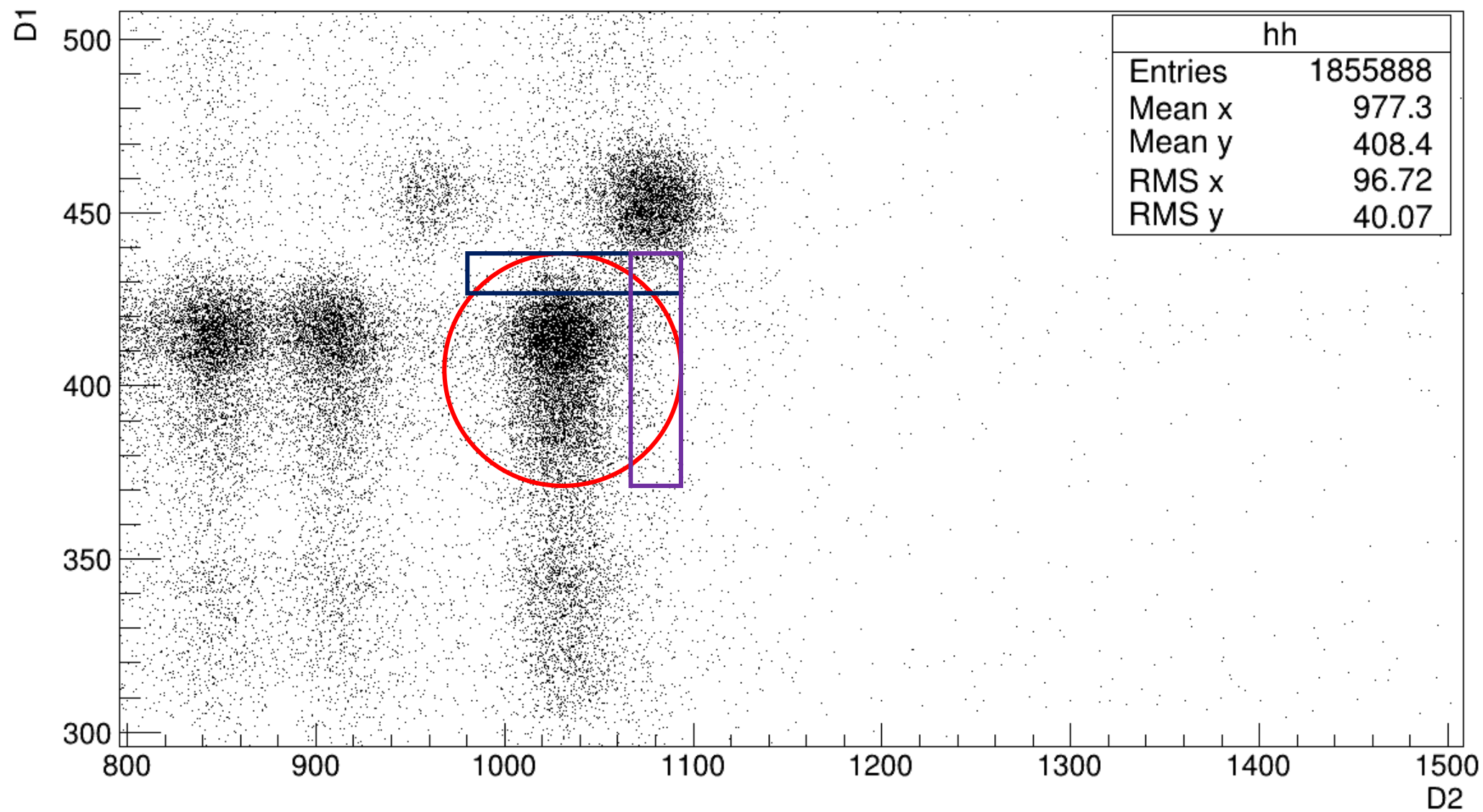
RESULTS FROM THE LIFETIME EXPERIMENT

LAB MEETING, 23/05/2017

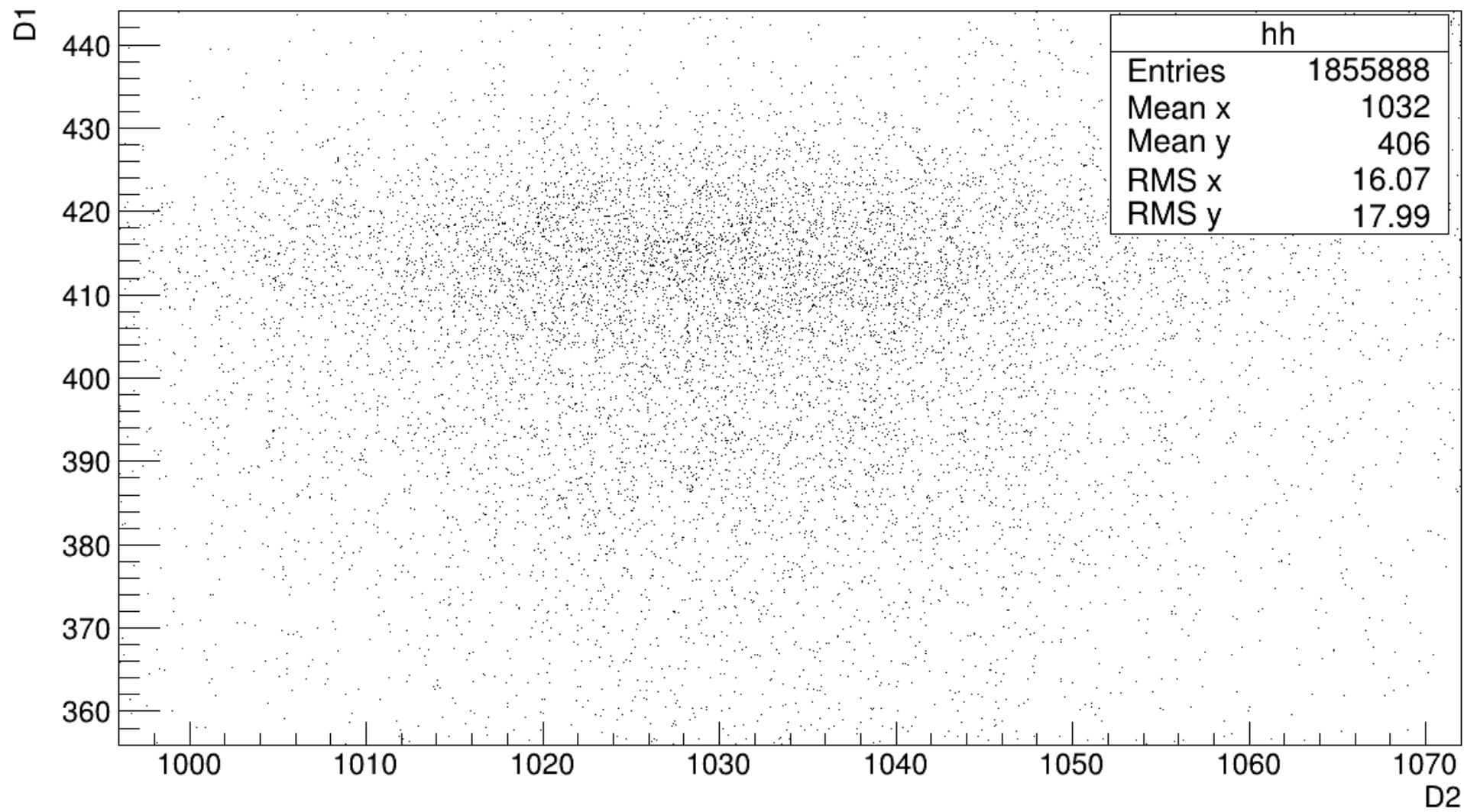
EVENT SELECTION





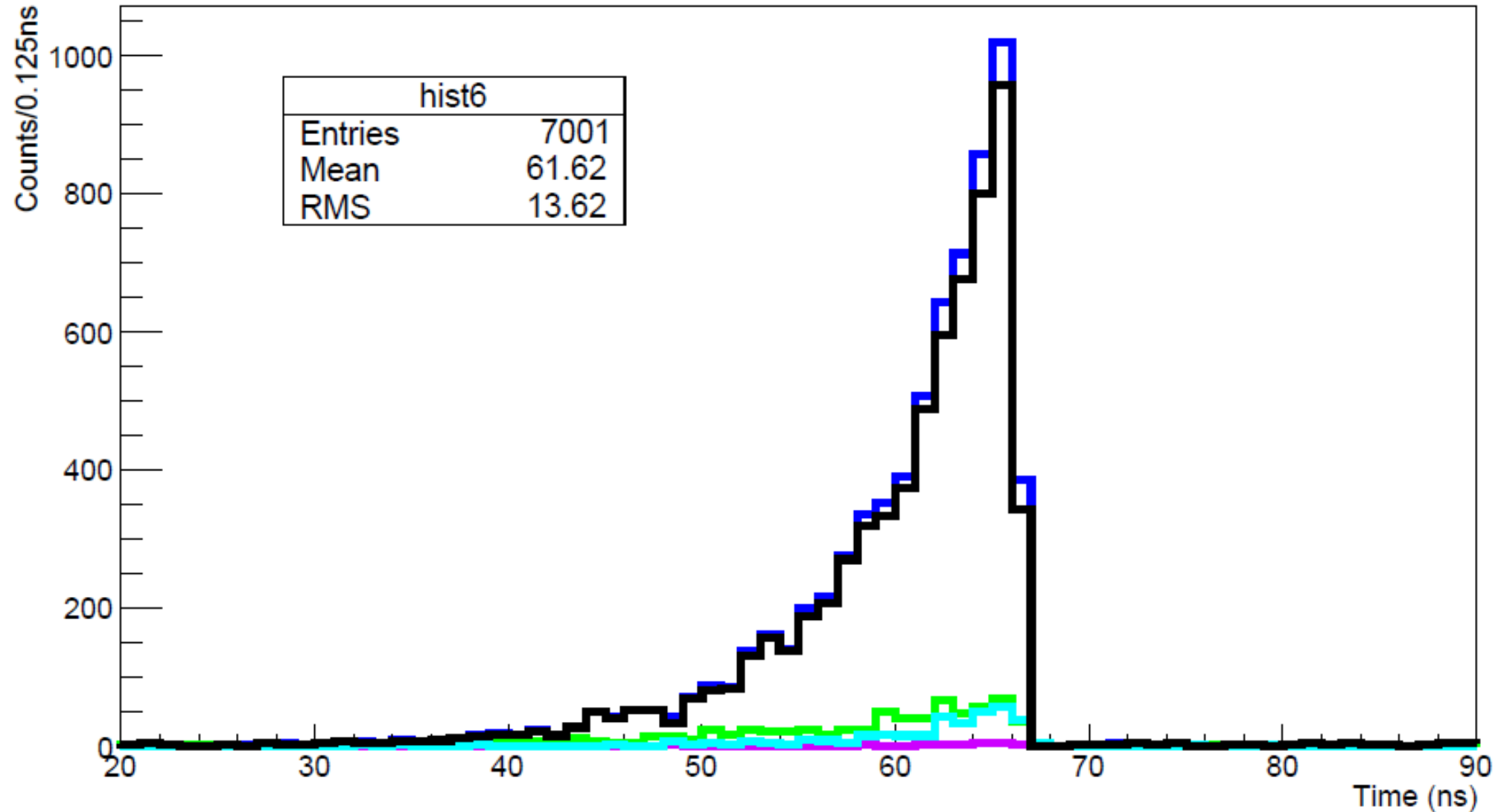


The Selected ROI



COMPTON BACKGROUND

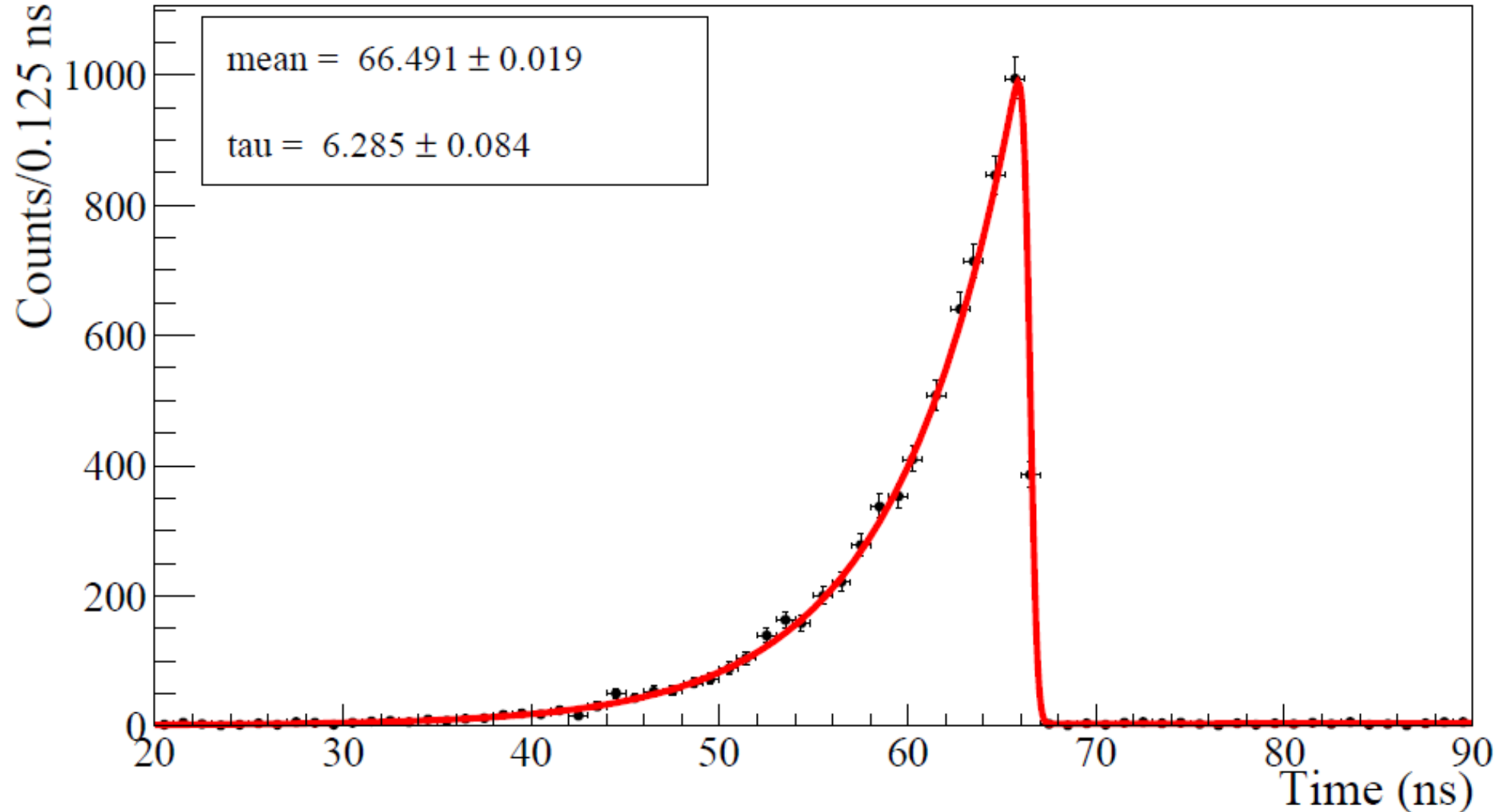
D1nD2 TimeSpectrum



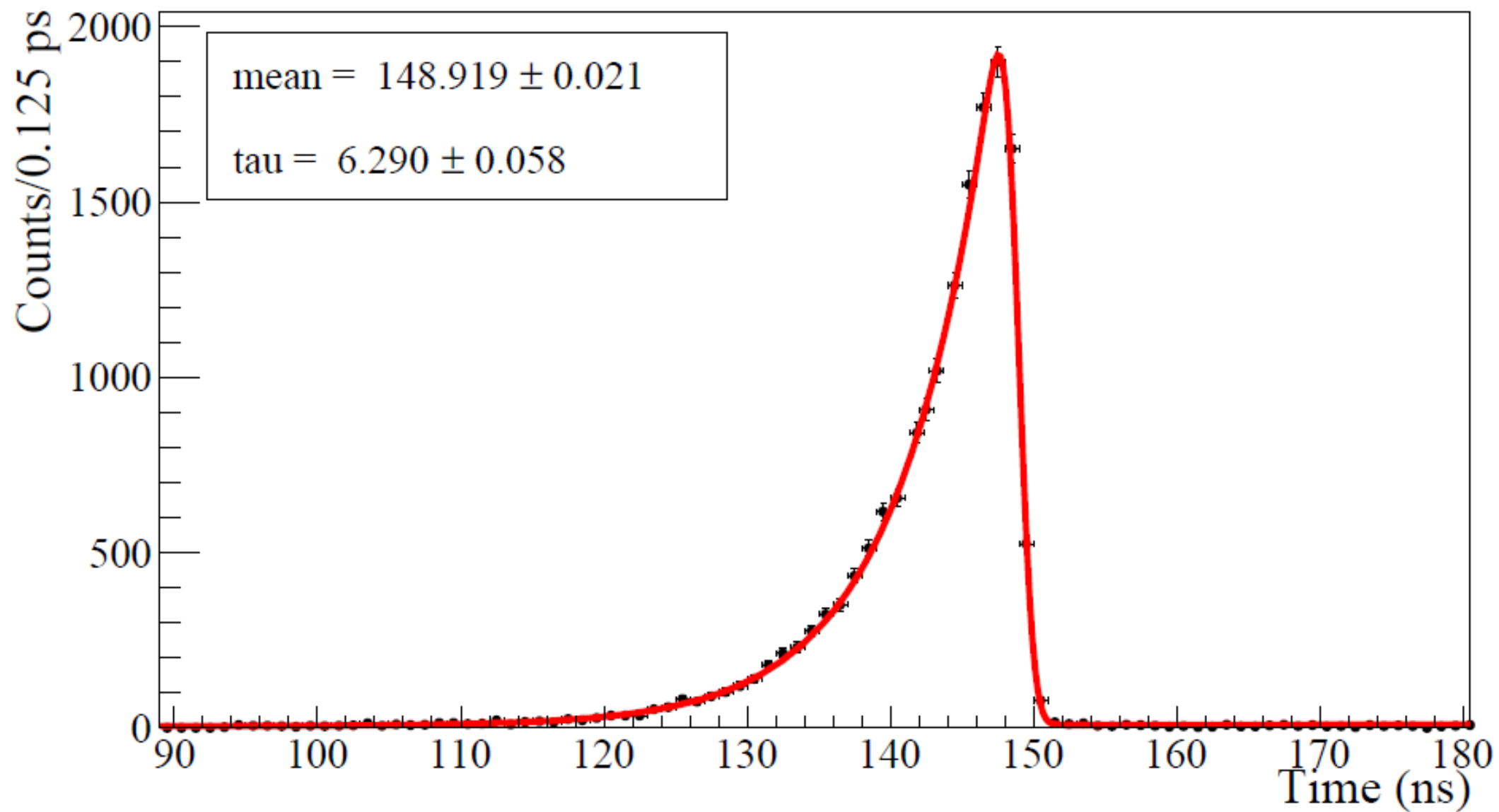
Lifetime of 81 keV state at Room Temperature (296 K)

LIFETIME OF 81 keV STATE USING NORMAL SOURCE

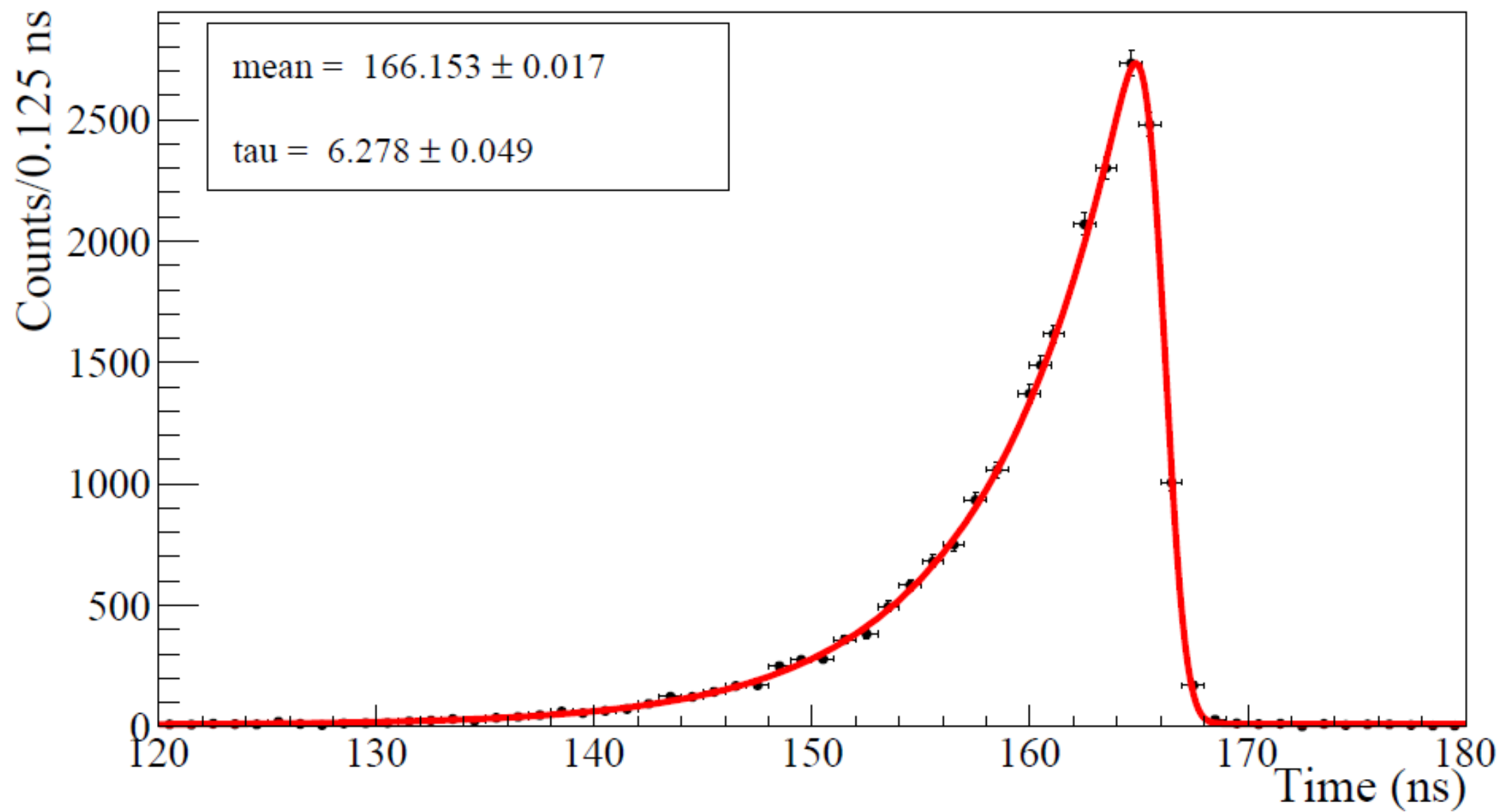
Time Spectrum by D1nD2



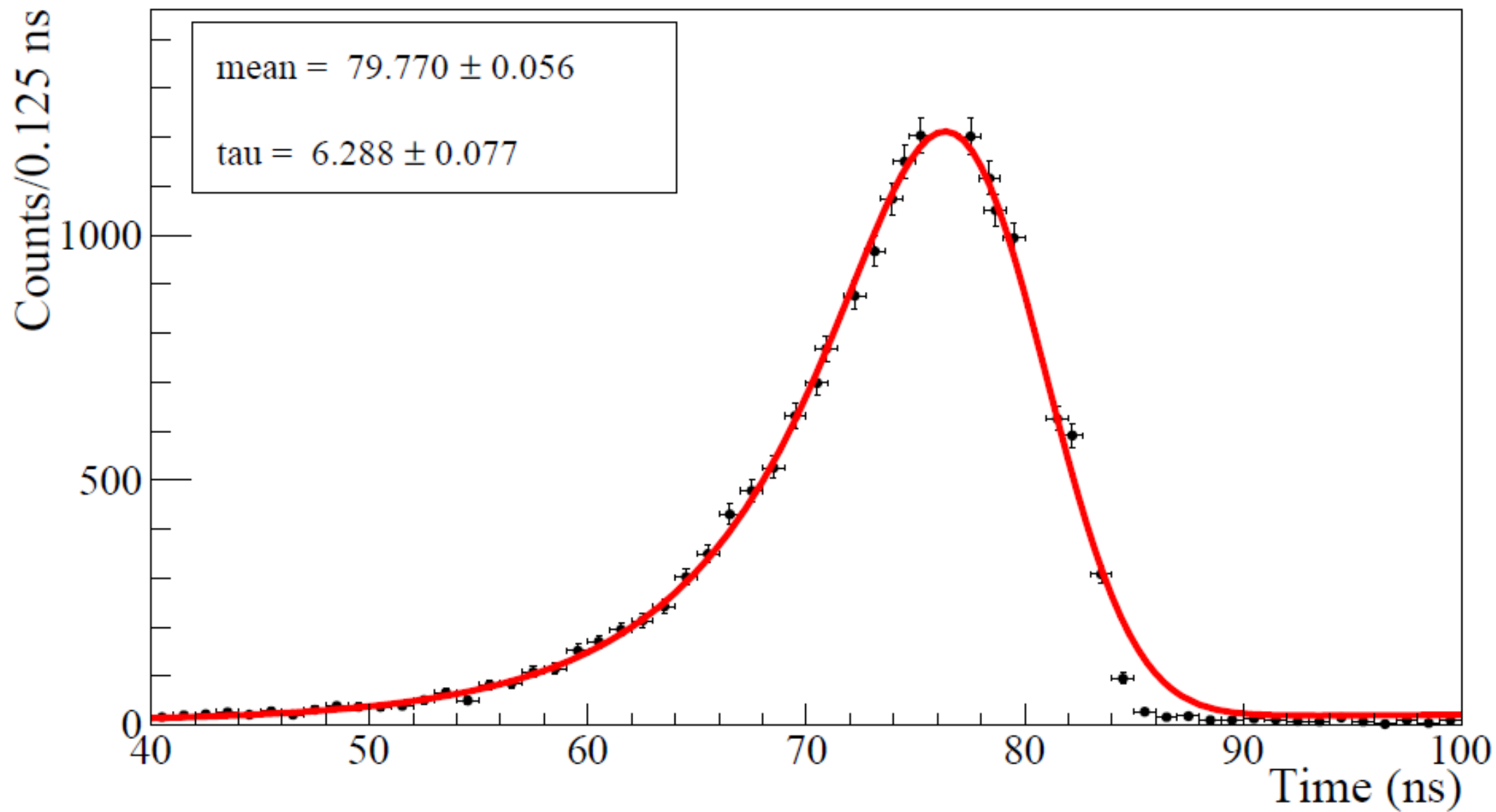
Time Spectrum by D1nD3



Time Spectrum by D2nD4



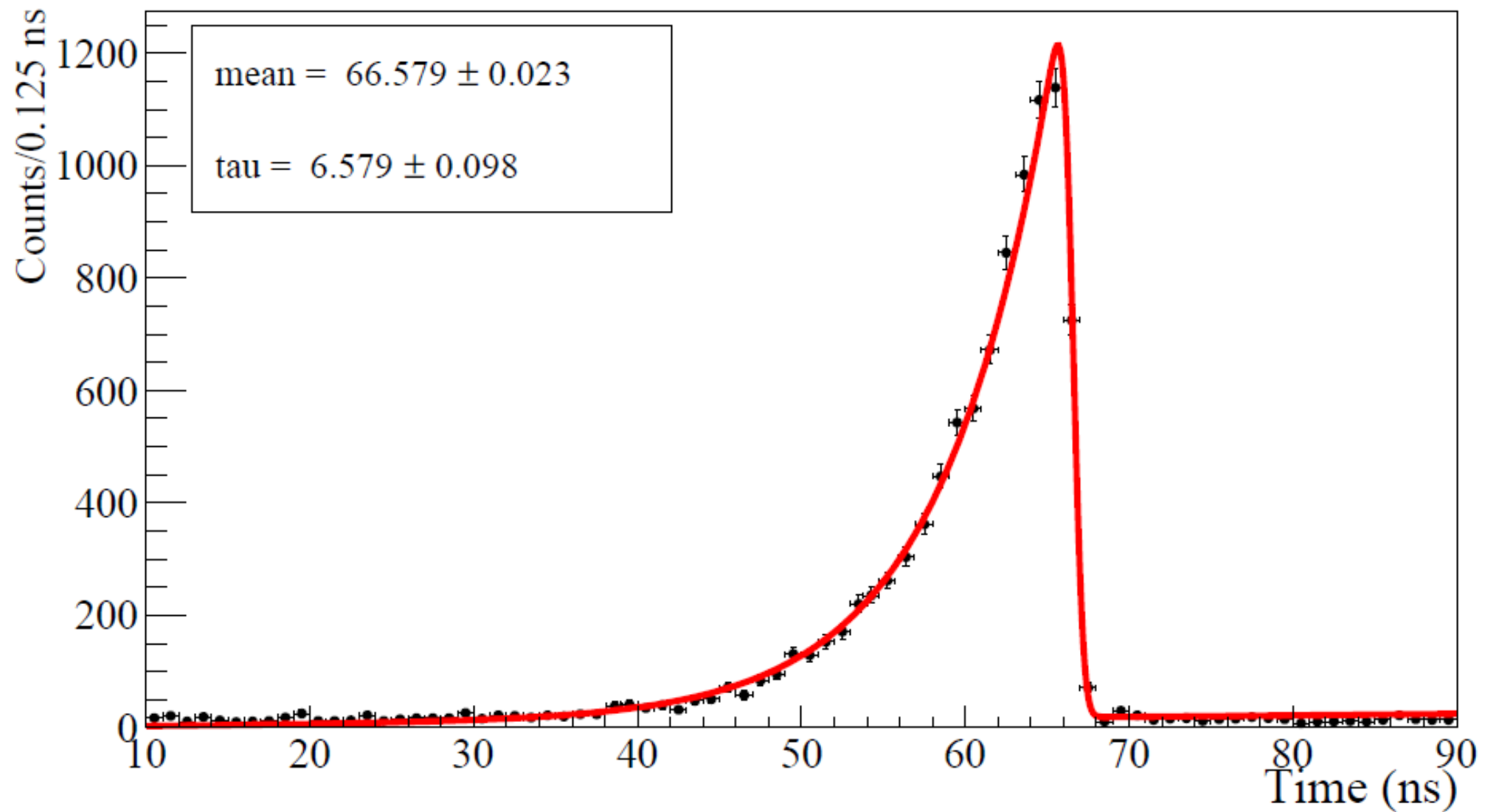
Time Spectrum by D3nD4



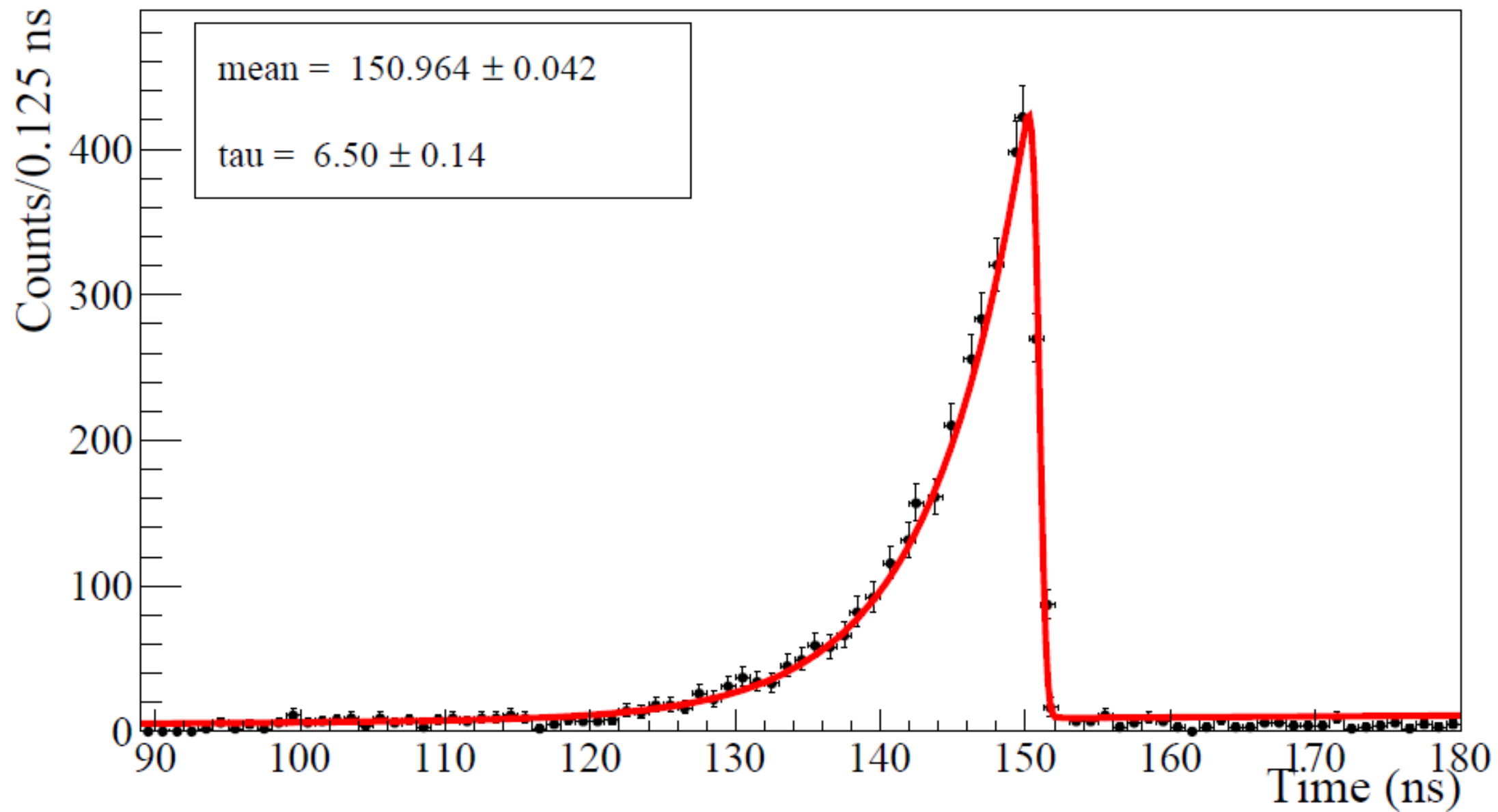
Lifetime of 81 keV state at 38 K

LIFETIME AT 38 k

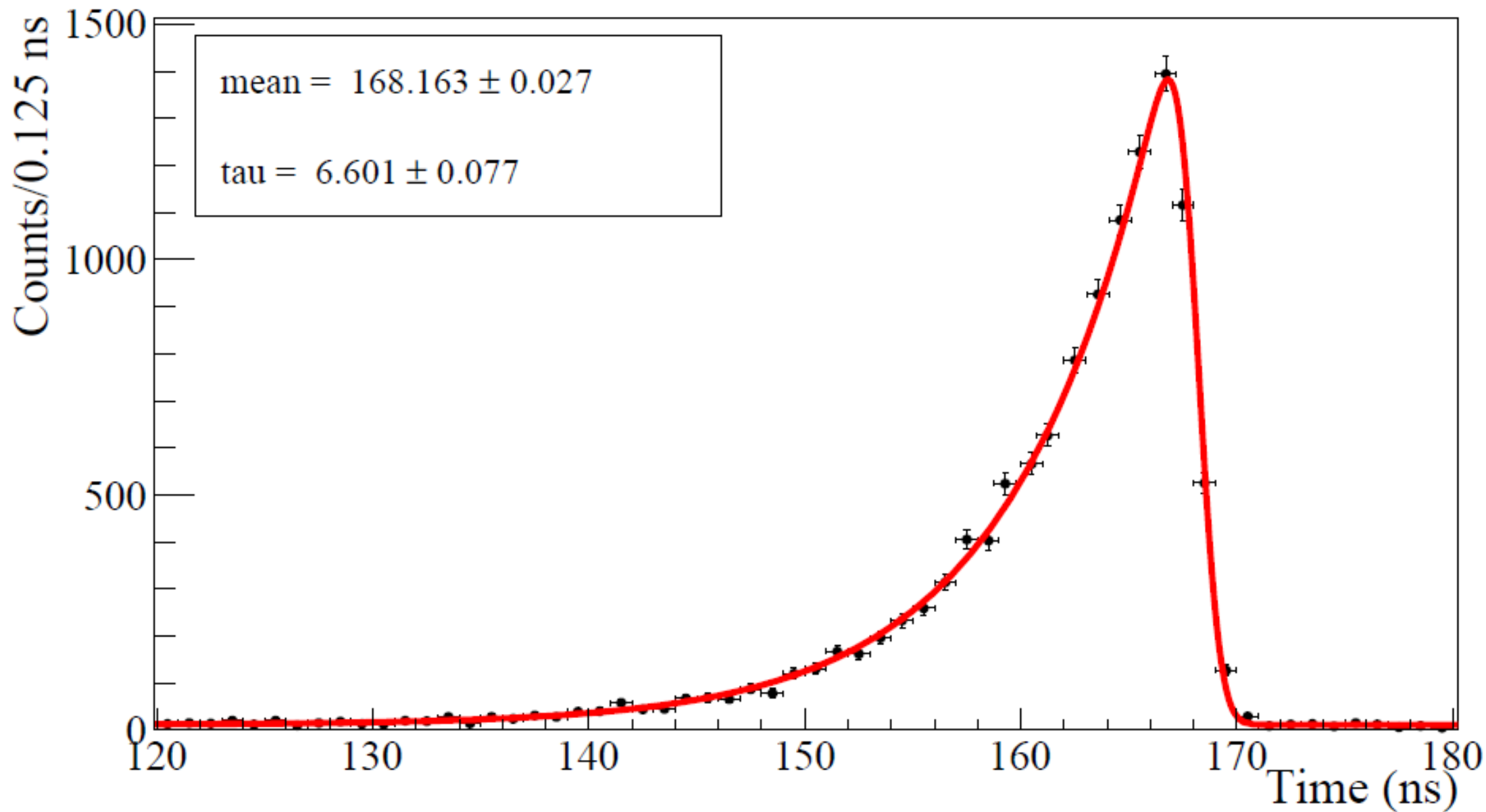
Time Spectrum by D1nD2



Time Spectrum by D1nD3

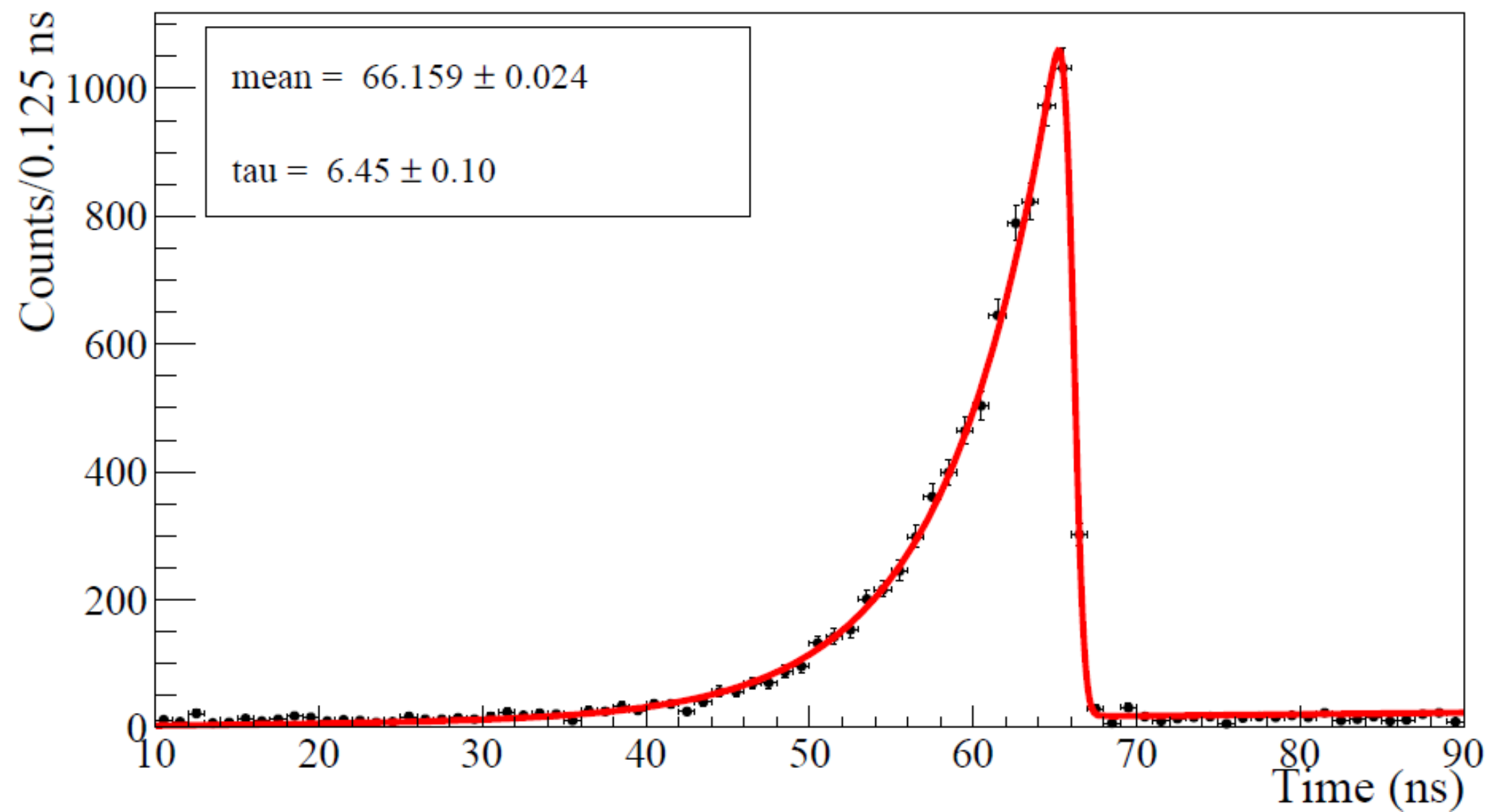


Time Spectrum by D2nD4

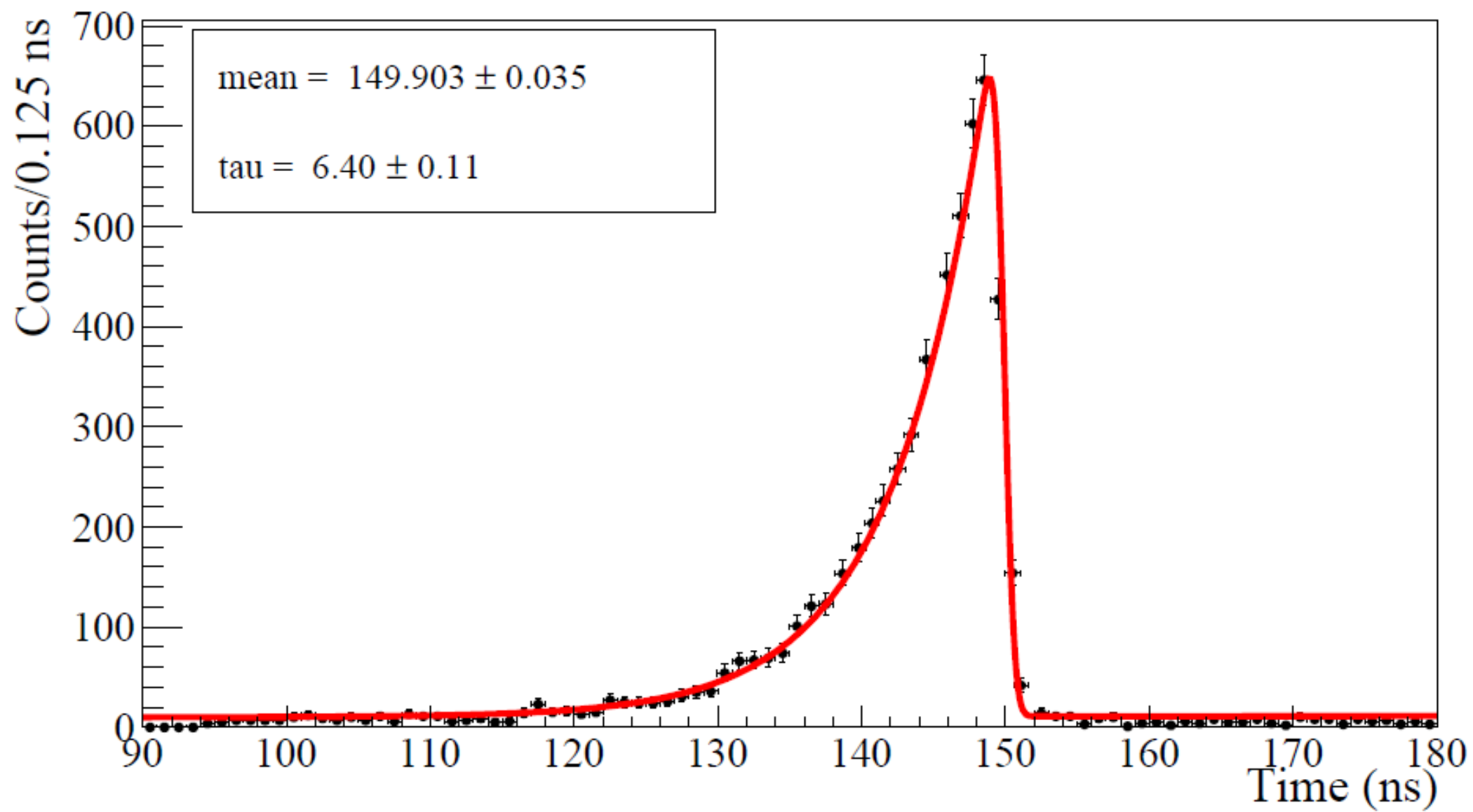


Lifetime of 81 keV state at 77 K

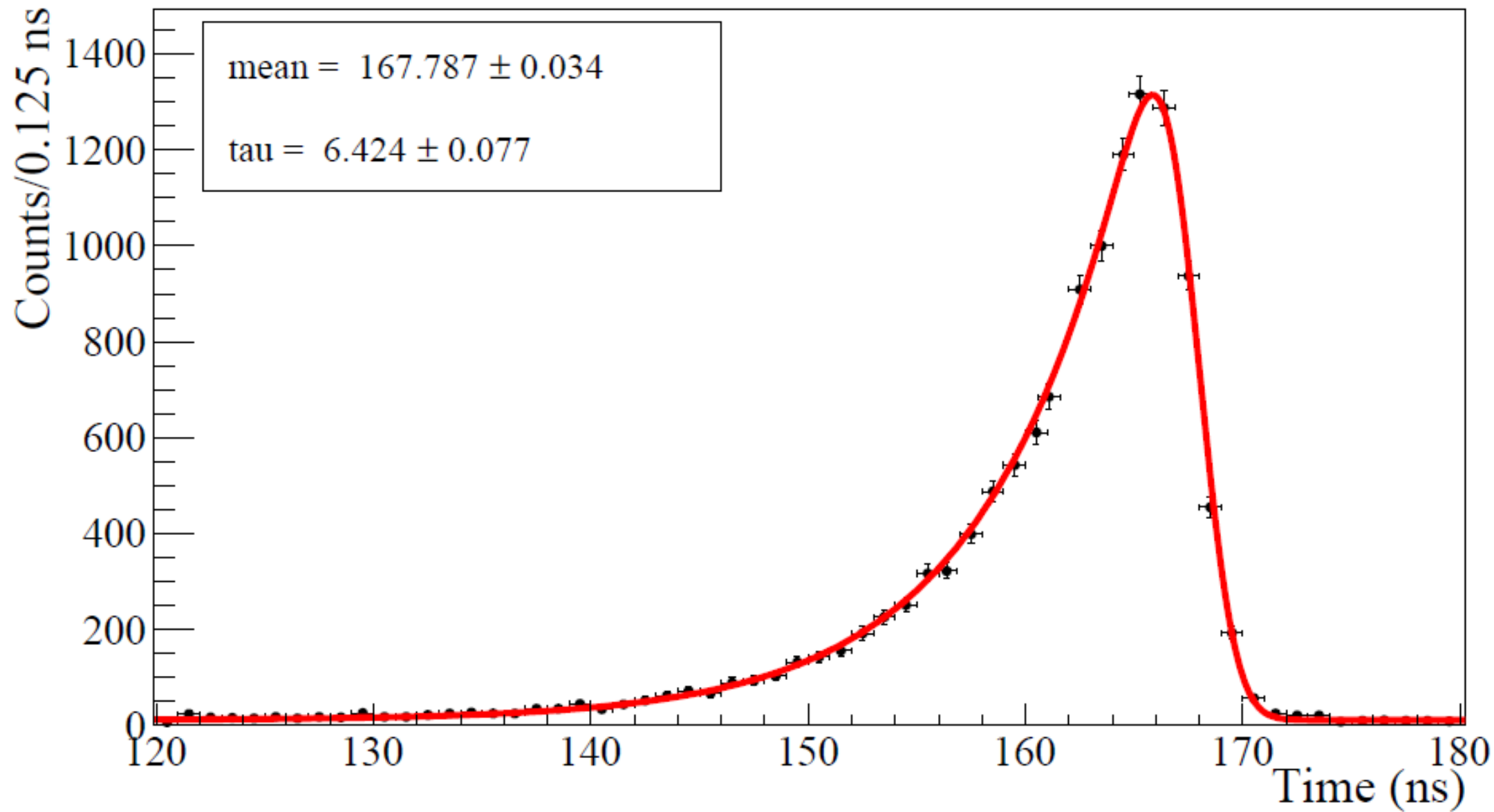
Time Spectrum by D1nD2



Time Spectrum by D1nD3



Time Spectrum by D2nD4



To Be Done:

1. Evaluate systematic uncertainties for the measurements
2. Take more data at 47 K, 57 K, 67 K and 87 K