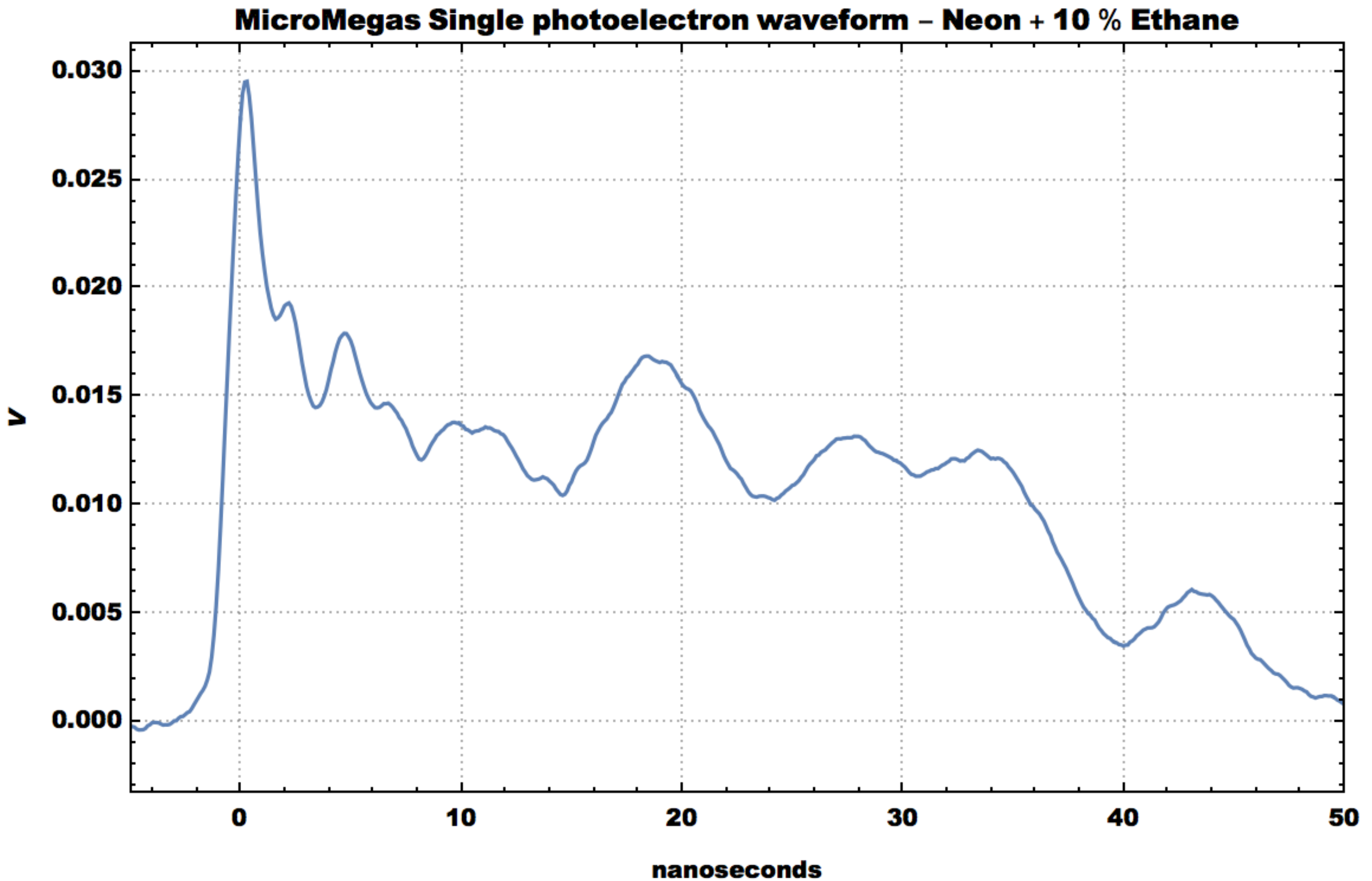


Single photoelectron waveform

Diego, Thomas and I felt we need a good waveform for single photoelectrons to include in the paper. In what follows there is a clean one averaged from ~500 triggers for the Ne-Ethane 10% candle data. Since Thomas sent also lab data for various $\text{CF}_4 + \text{He}$ and $\text{He} + \text{Ethane}$ mixtures I thought it would be worth looking at how they differ. These are a good test bench also for Diego and Filippo's waveform simulations. Note: for the later ones it seemed like little was gained by averaging triggers so they are just one sweep.

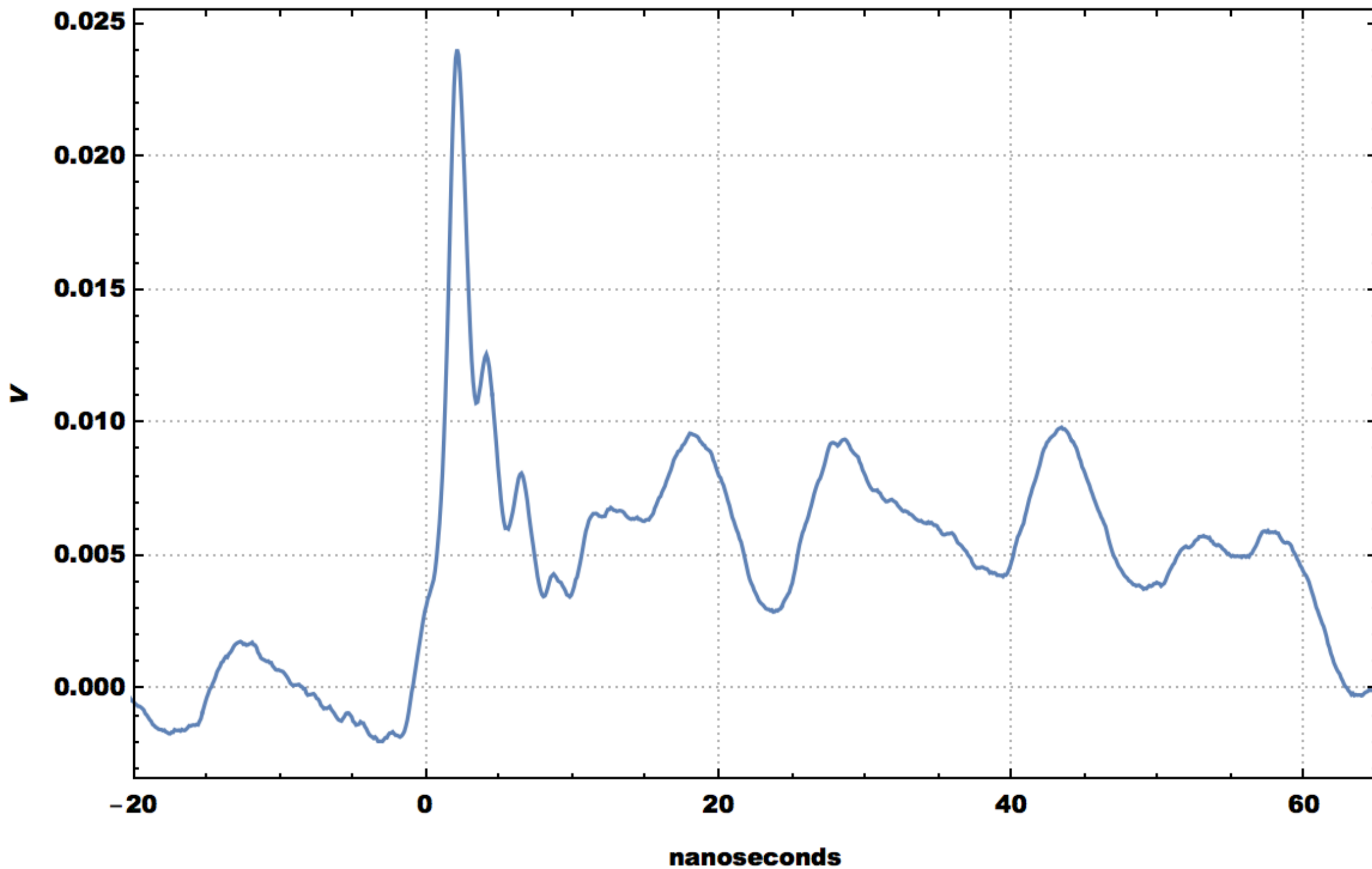
SNW-11/24/15

Ne-Ethane (for paper)



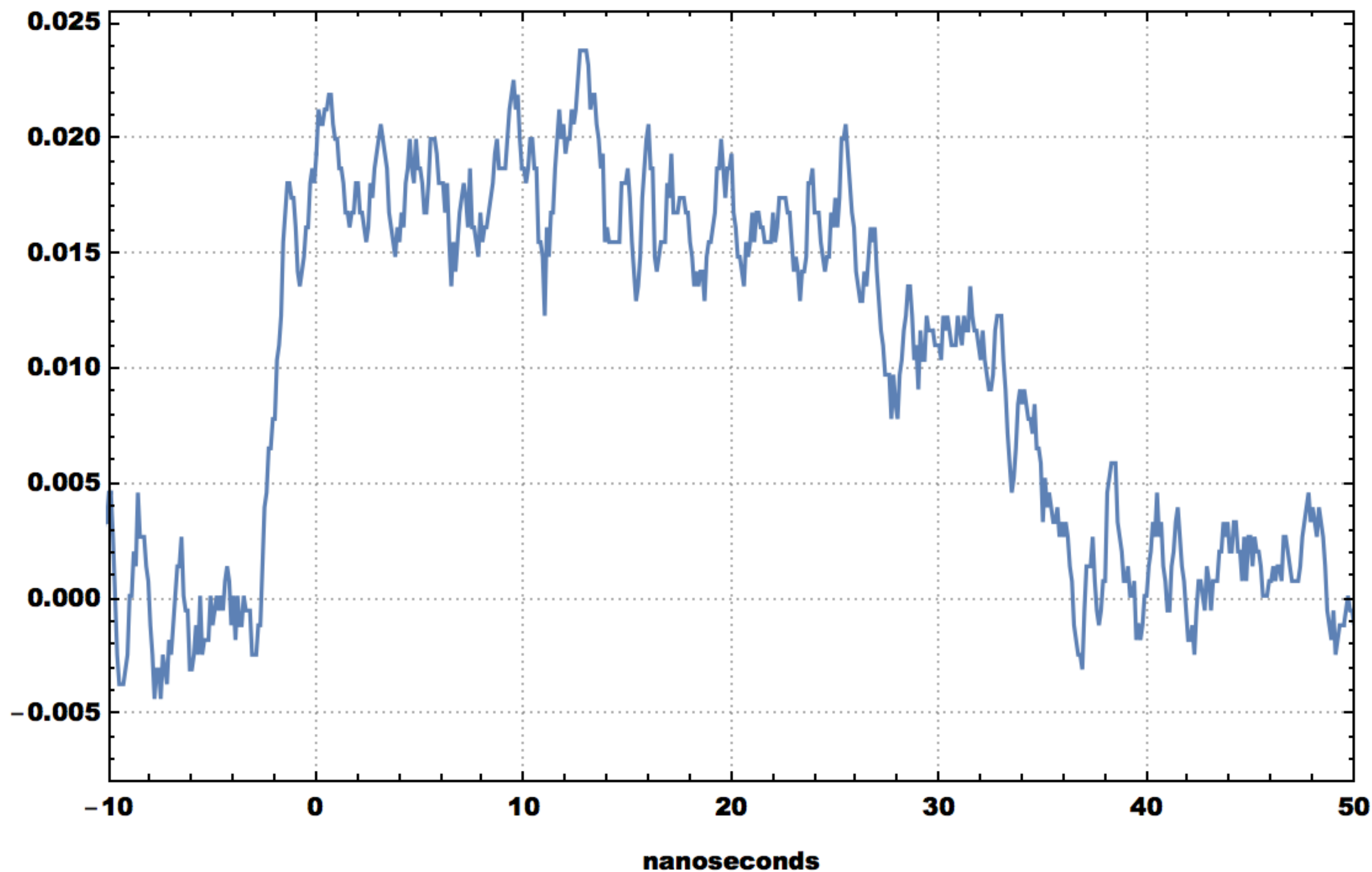
pure CF₄

MicroMegas Single photoelectron waveform – Pure CF₄



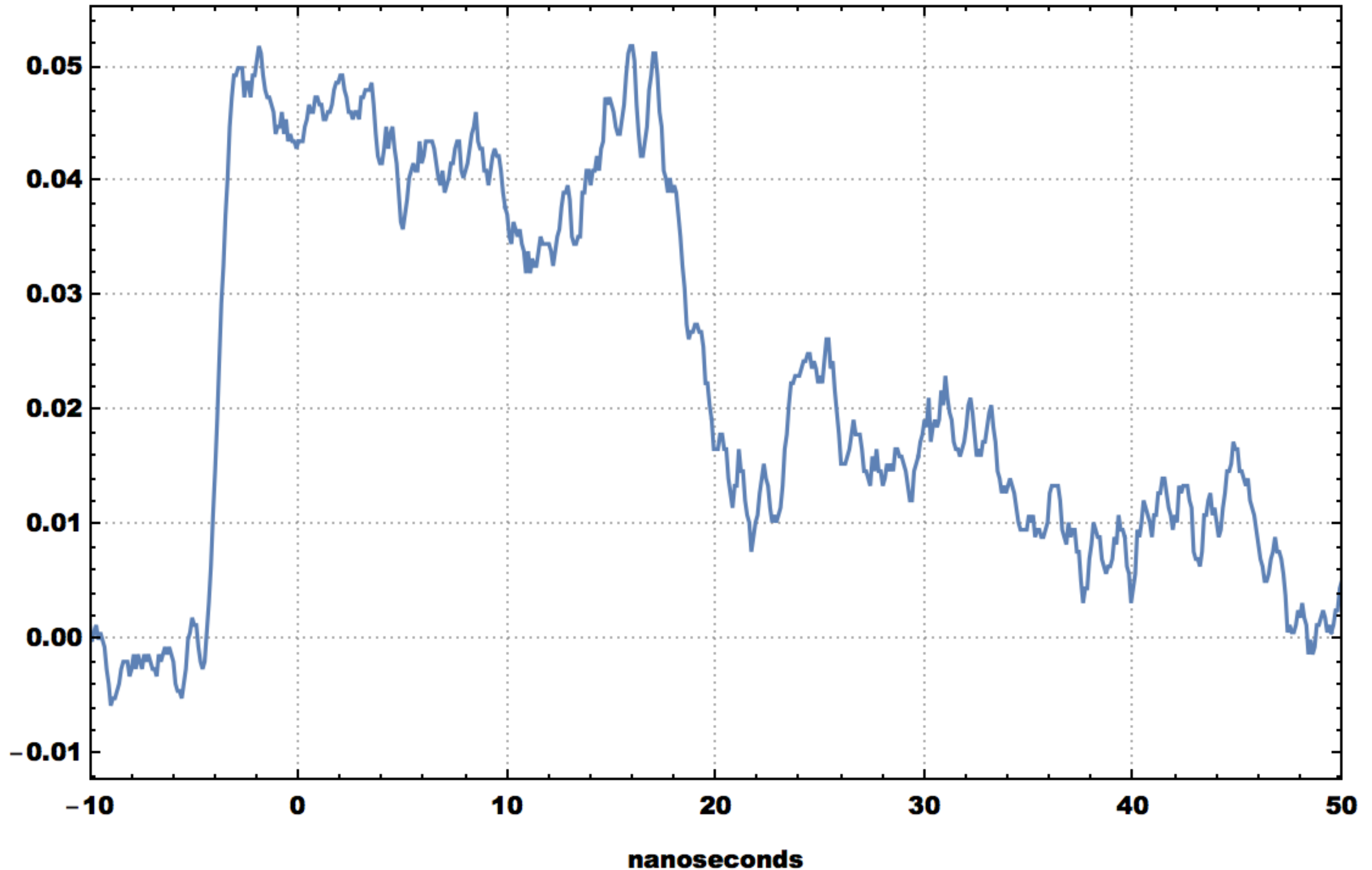
He+CF₄

MicroMegas Single photoelectron waveform – Helium + 10 % CF₄



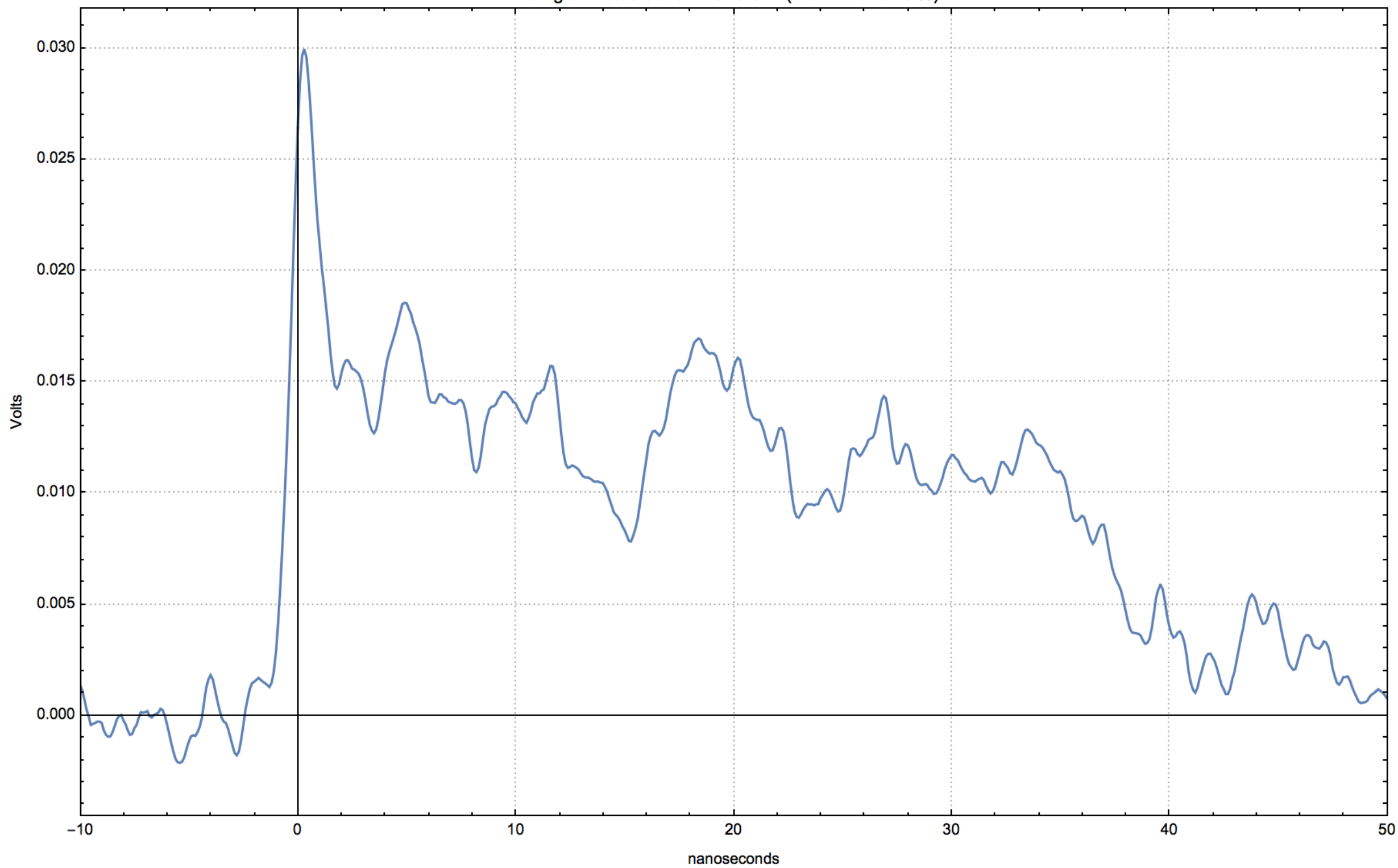
He+Ethane

MicroMegas Single photoelectron waveform – Helium + 10 % Ethane



Re-worked some Plots

Single Photoelectron Waveform (Ne – Ethane 10 %)



Single Photoelectron Waveform (Pure CF₄)

