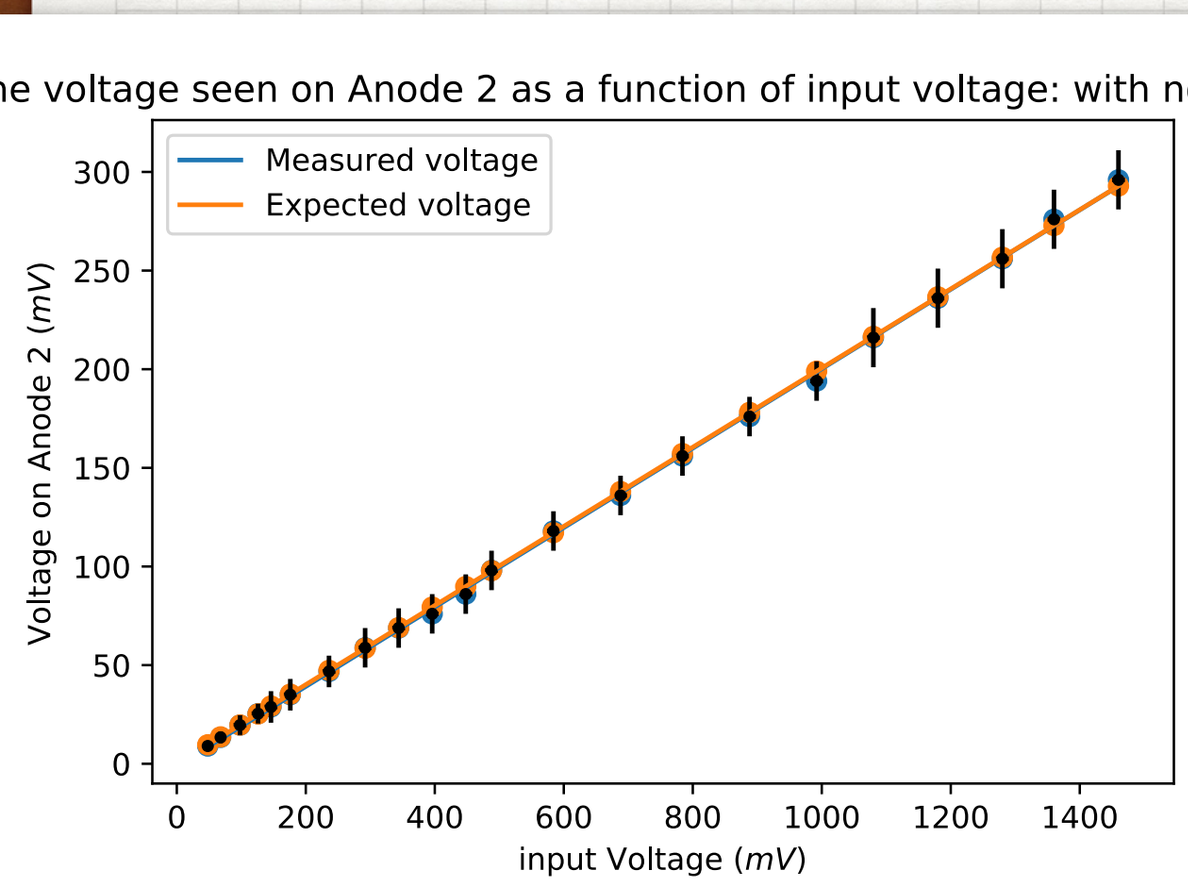
13/12/19 CAPACITANCE AND FINAL RESULTS ABOUT ATTENUATION

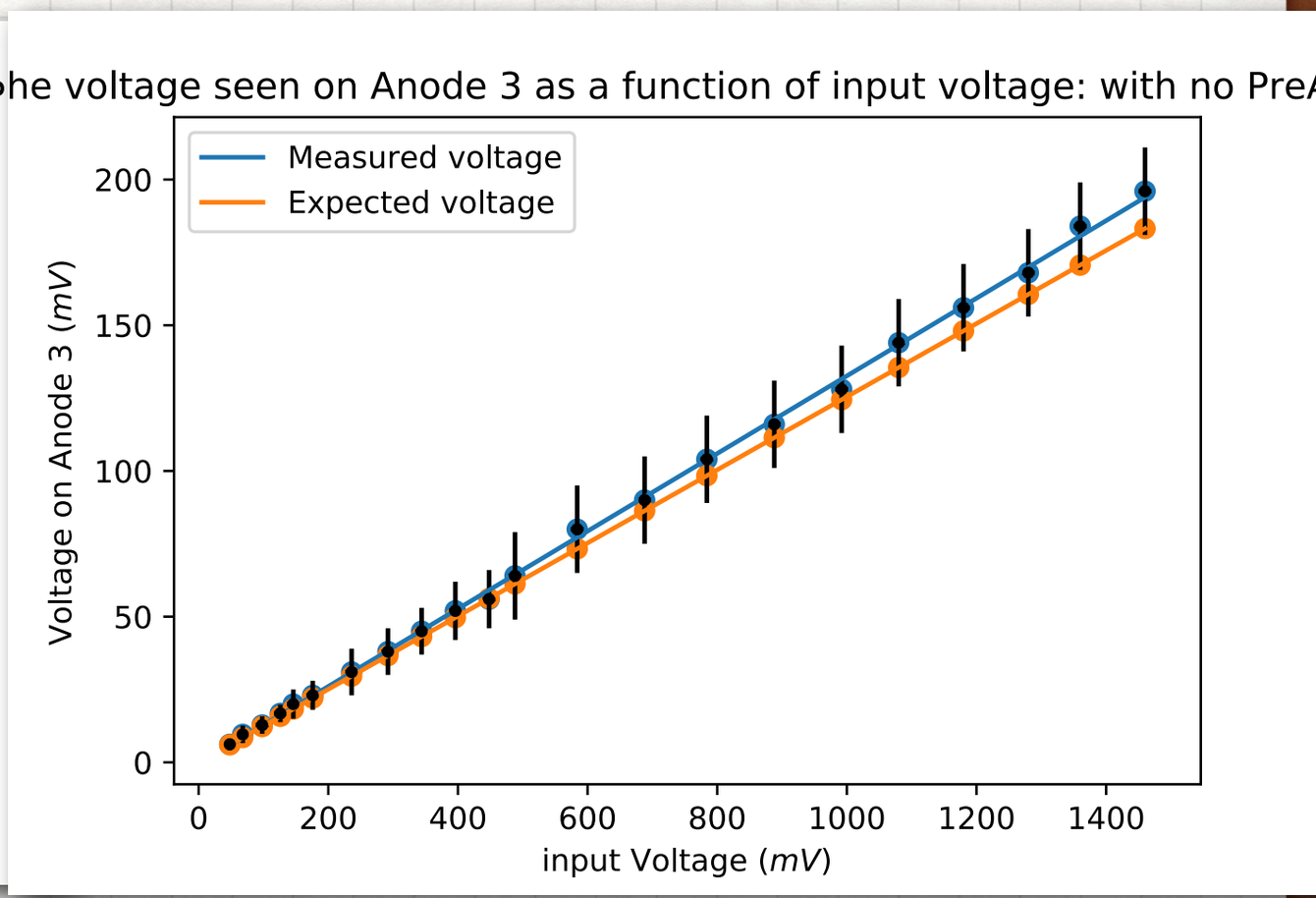
Adam Tarrant

HPTPC CALIBRATION

SIGNAL ON ANODE 1 WITH NO PREAMP



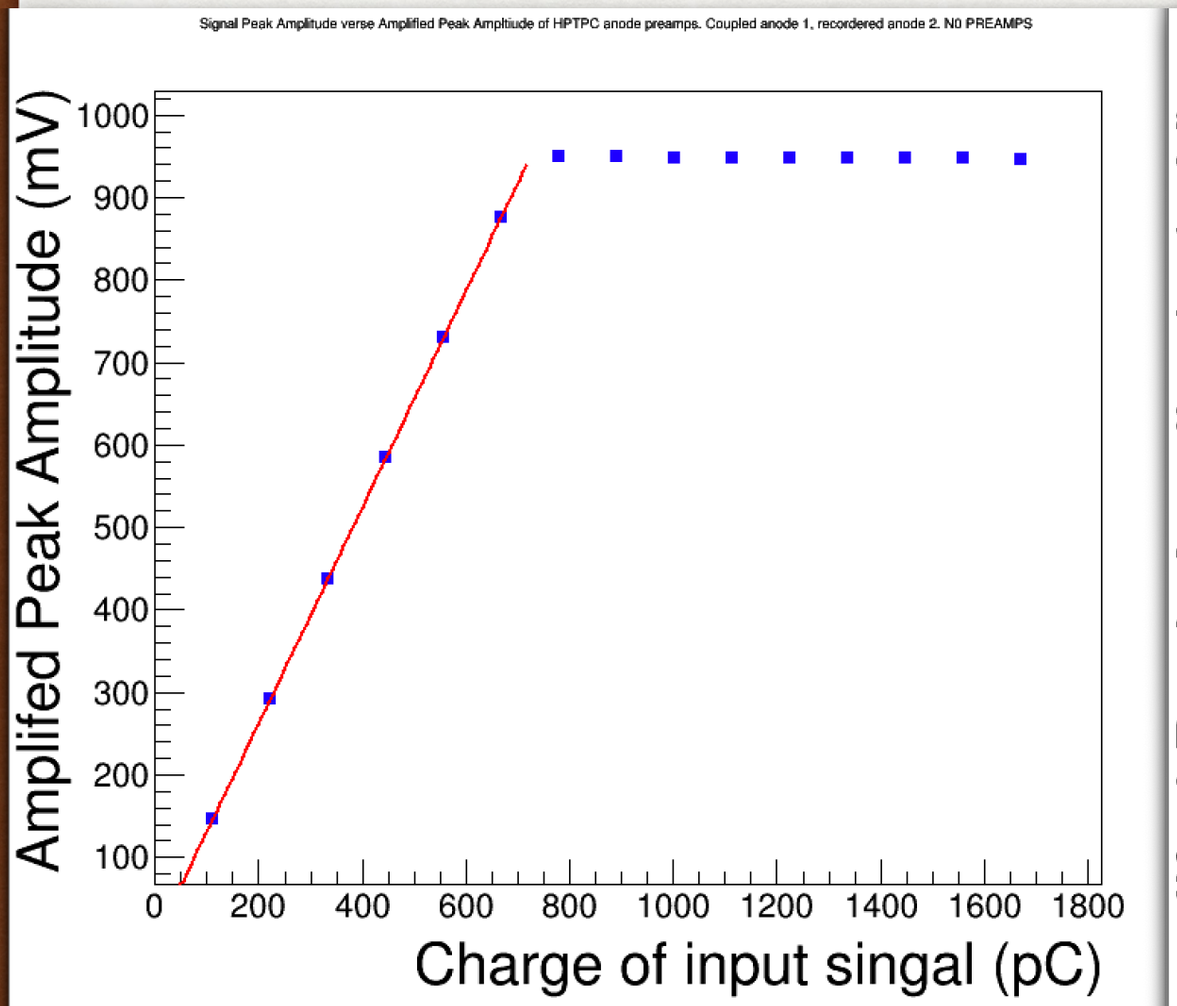
Gradient: 0.201±



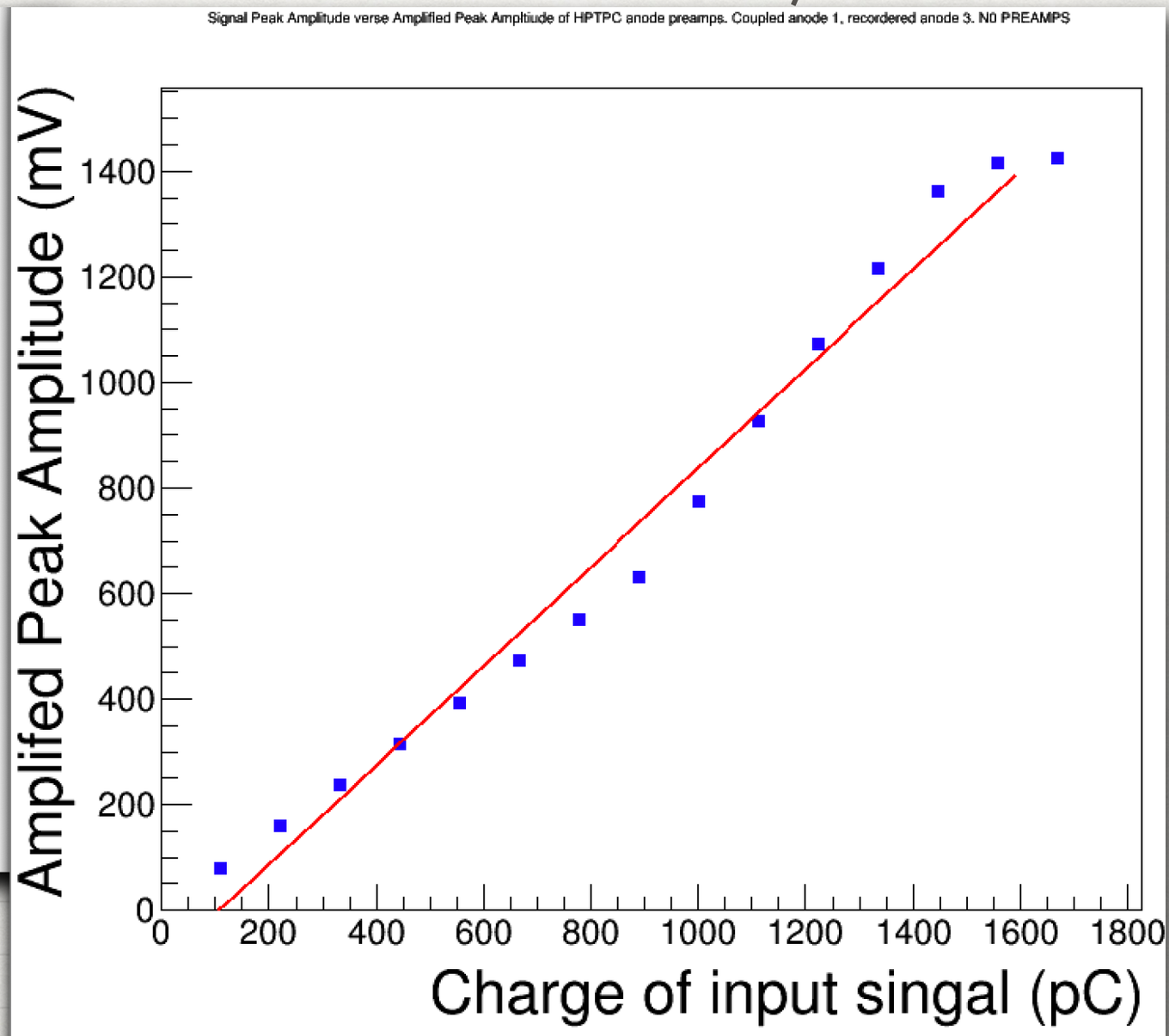
Gradient: 0.133±

NEW GAIN WITH PREAMP

NEED TO GO BACK TO WORK OUT THE GAIN IN MV/PC



Gain: 1.3107±
0.0001 mV/pC



Gain: 0.93872±
0.00003 mV/pC

CAPACITANCE OF ANODES

$$A = fG_{mesh}G_{preamp}Q_e$$

For an amplitude of 200mV

we have for anode 2

Q_e=932pC G_{mesh12}=0.201 and$G_{preamp2}$= 1.3107±0.0001 mV/pC

Which gives the value of f2=0.811

we have for anode 3

Q_e=607pC G_{mesh13}=0.133 and$G_{preamp3}$= 0.93872±0.00003 mV/pC

Which gives the value of f3=2.66