

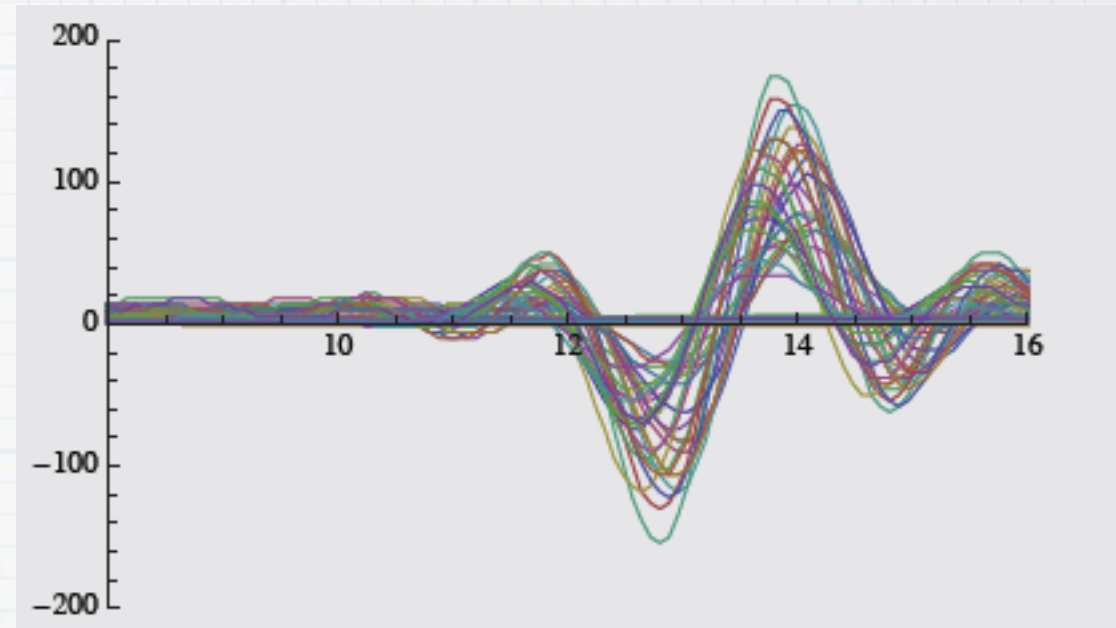
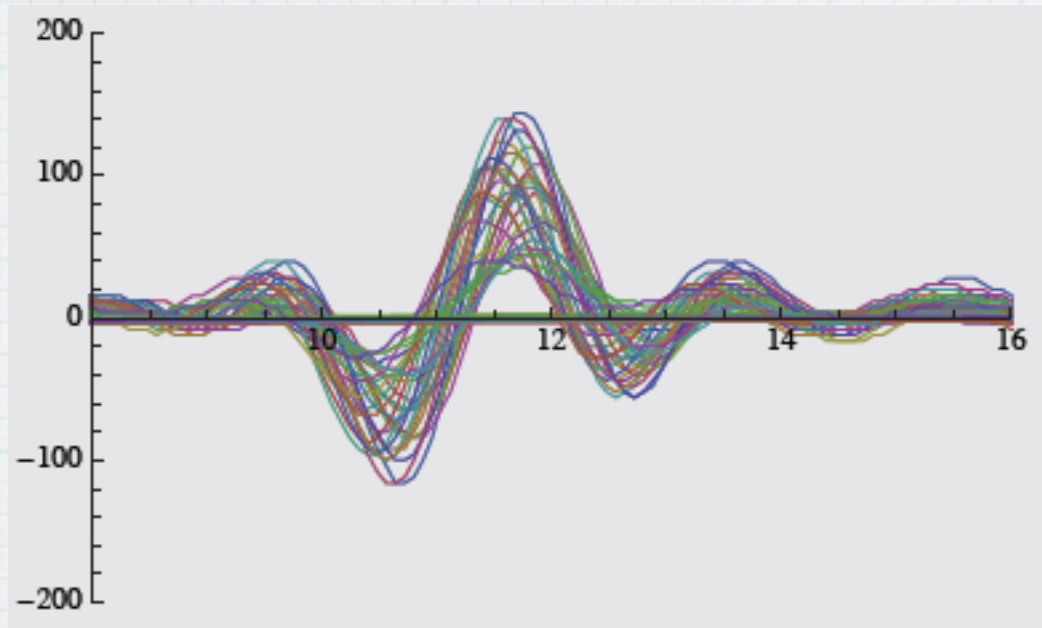
Beryllium ATF data

- * we took data on Apr 8&29 with
 - * 10^9 e/pulse @ 62 MeV
 - * 0.6mm Be target tilted 45 deg
 - * distances of 20,40,80cm from APD

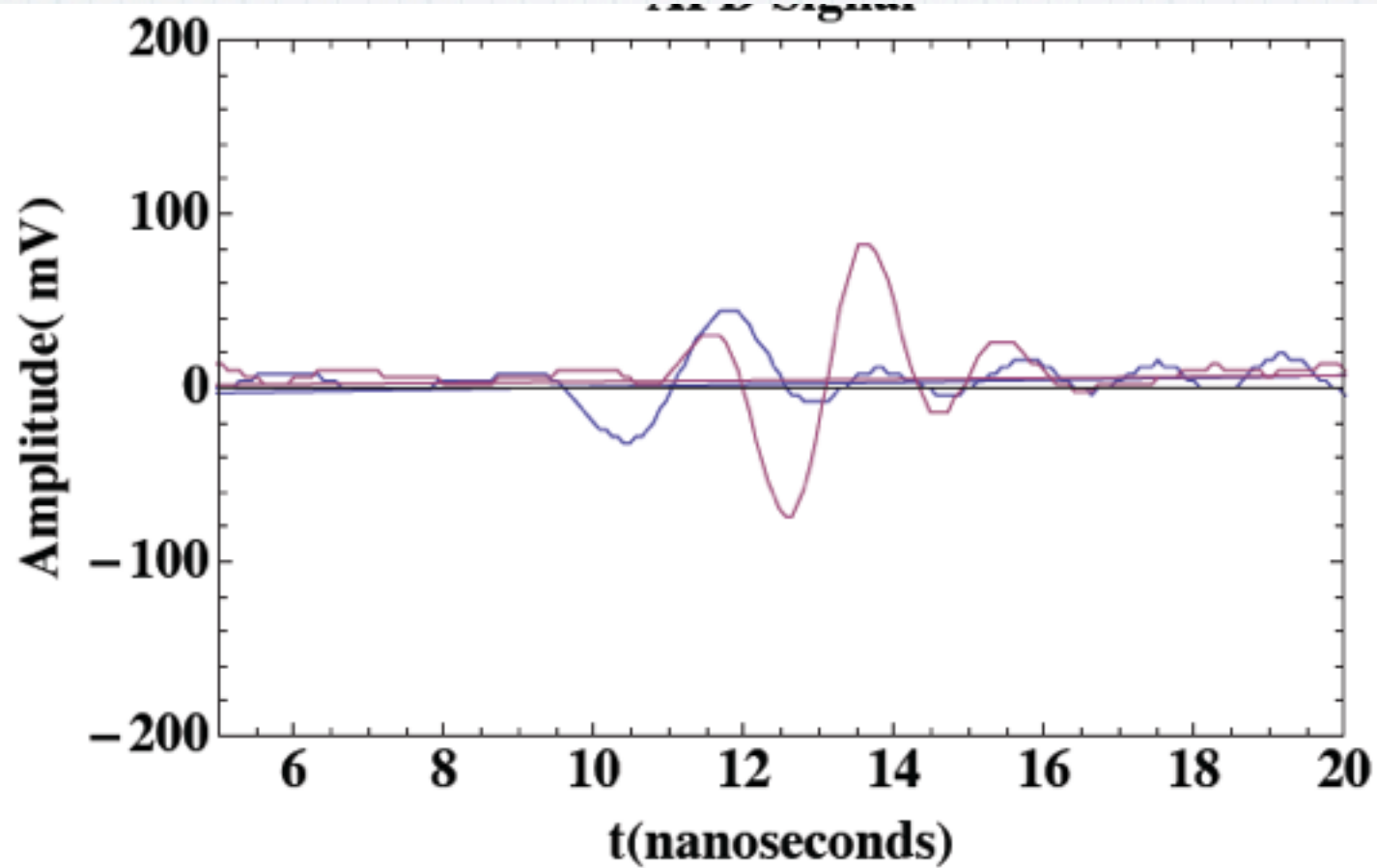
Apr 29

- * Vitaly prefers these because more controlled beam conditions
- * there is a DAQ problem -> events randomly repeat @30% chance. These are removed by hand
- * stripline traces don't look like they were triggering (there's no sign of stable point)
- * large spread in stripline amplitude
- * no target out background

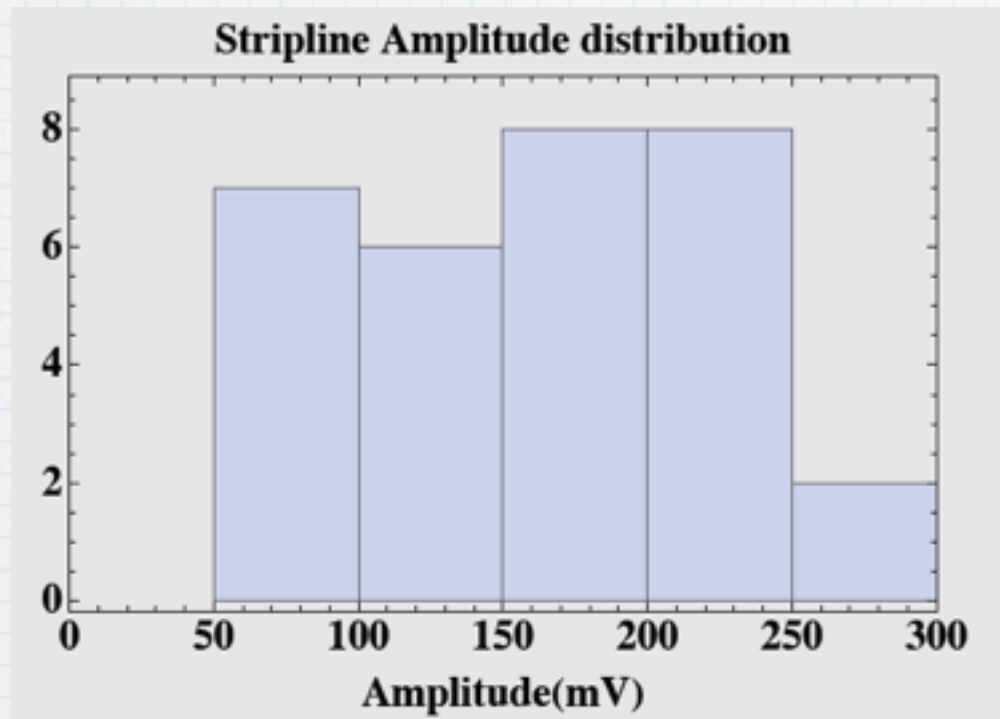
SL1, 2



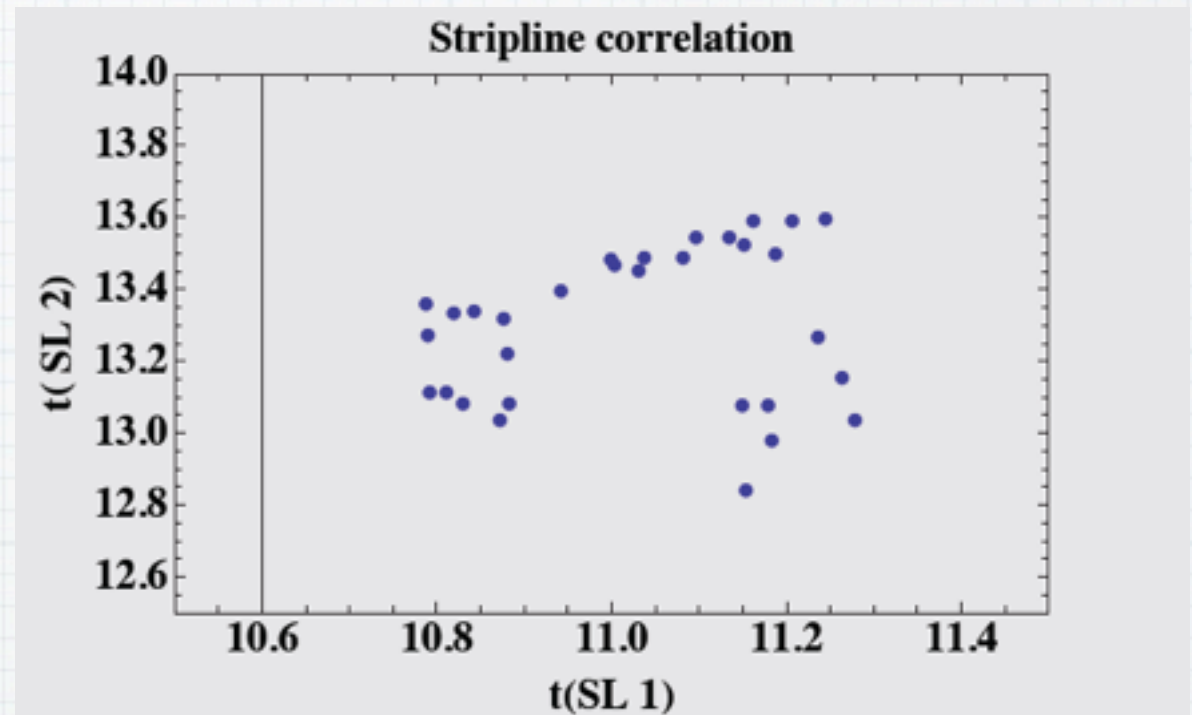
SL1&2, 1 event



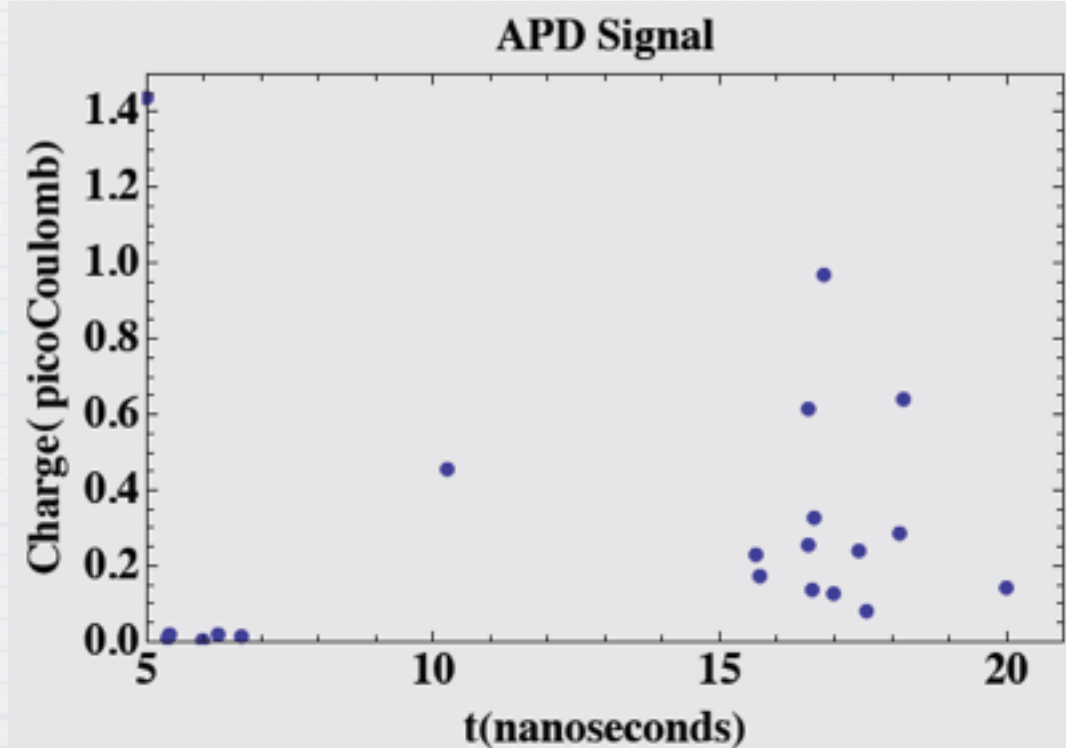
big spread in peak-to-peak
amplitude within a run



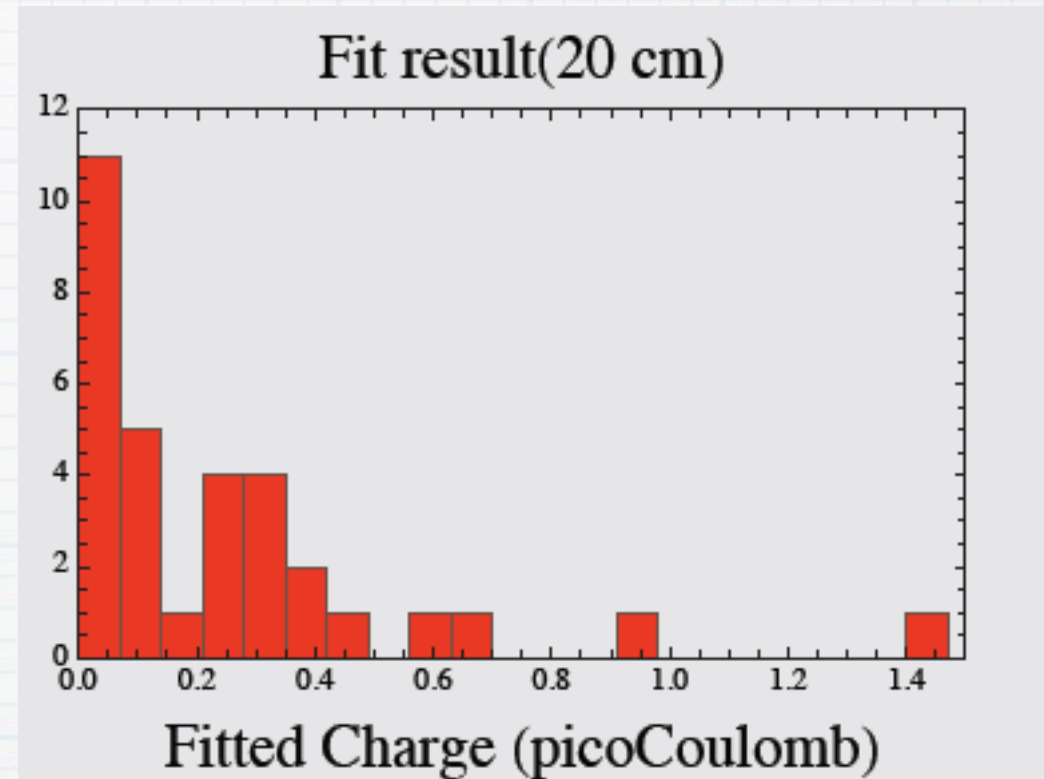
0-cross not well correlated



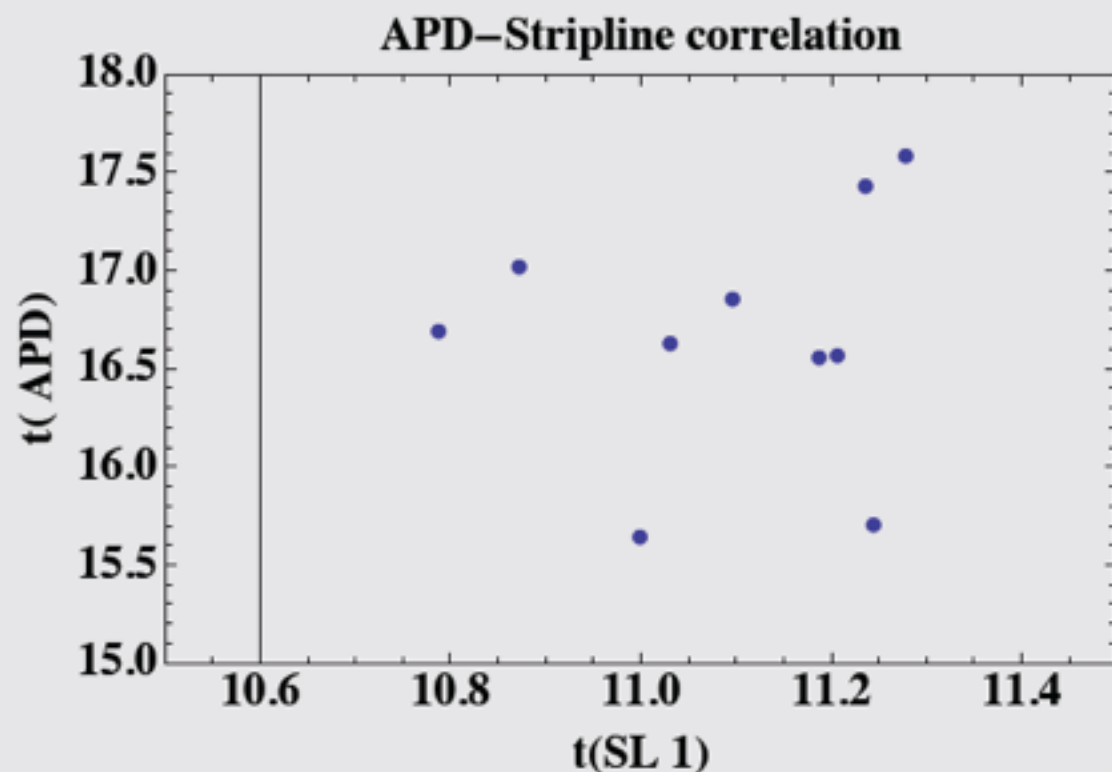
pulse fit area, time (40cm)



possible signal @ 0.2 pC
expected mean

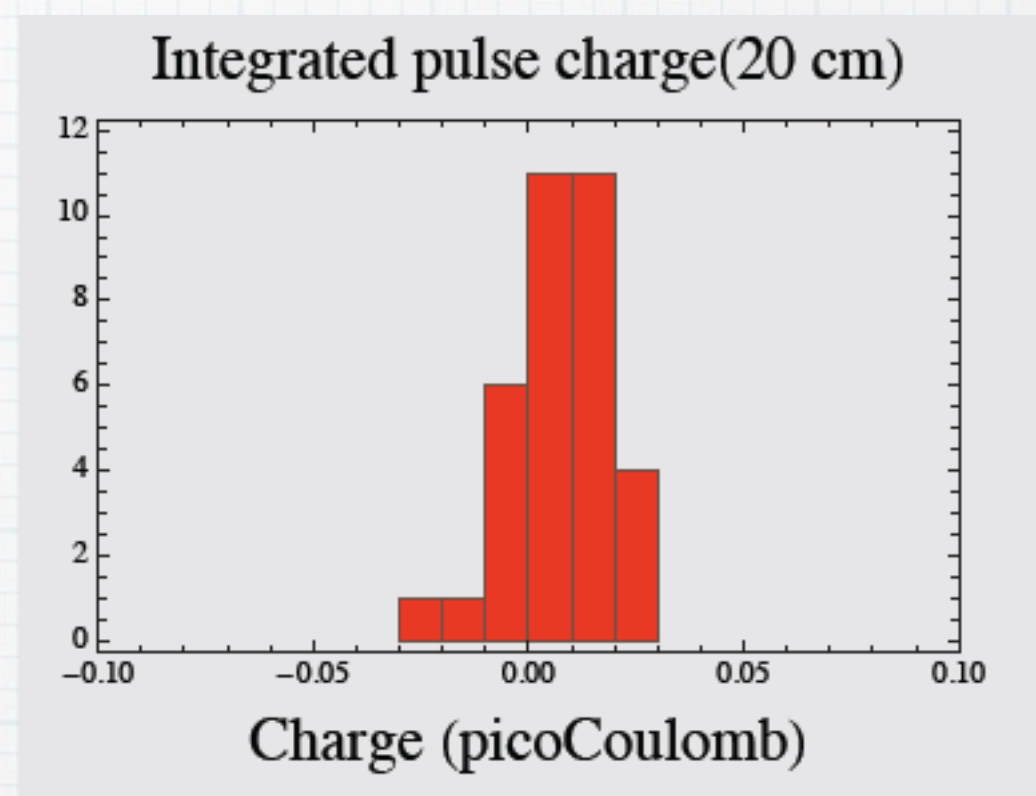
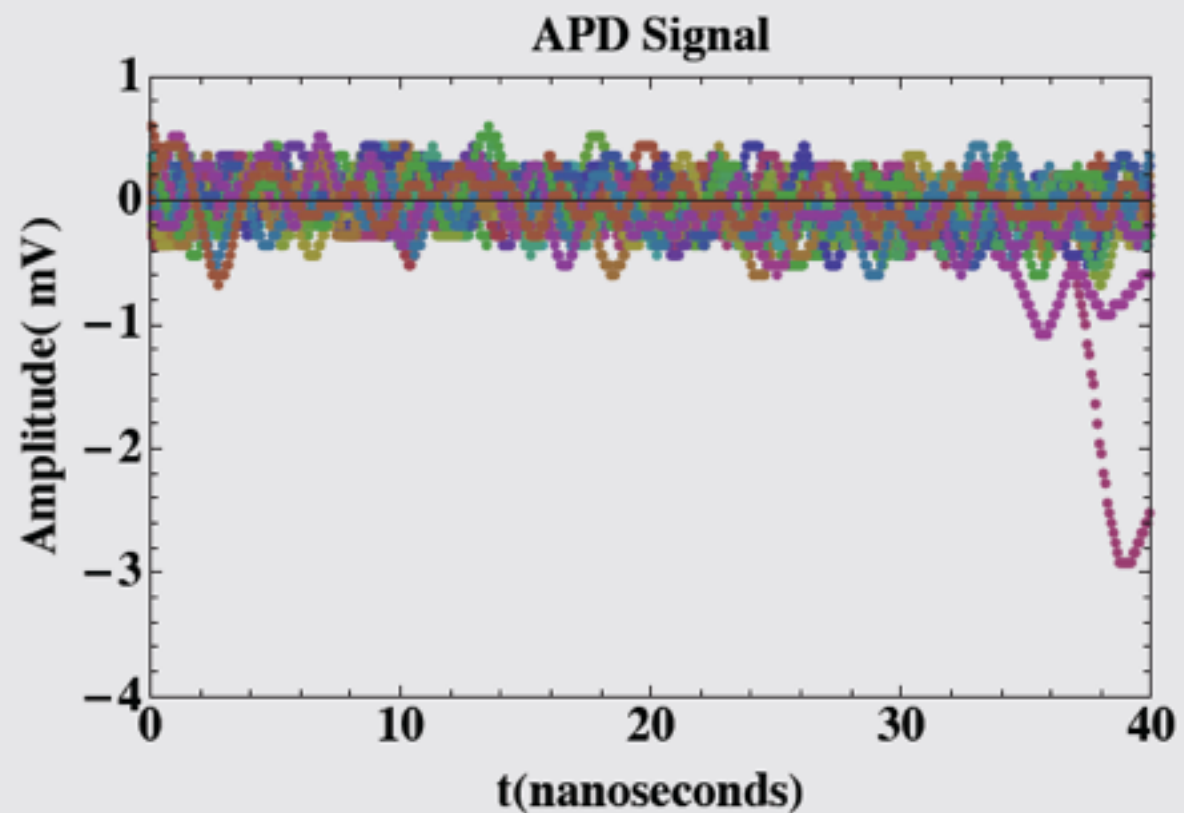


stripline not correlated

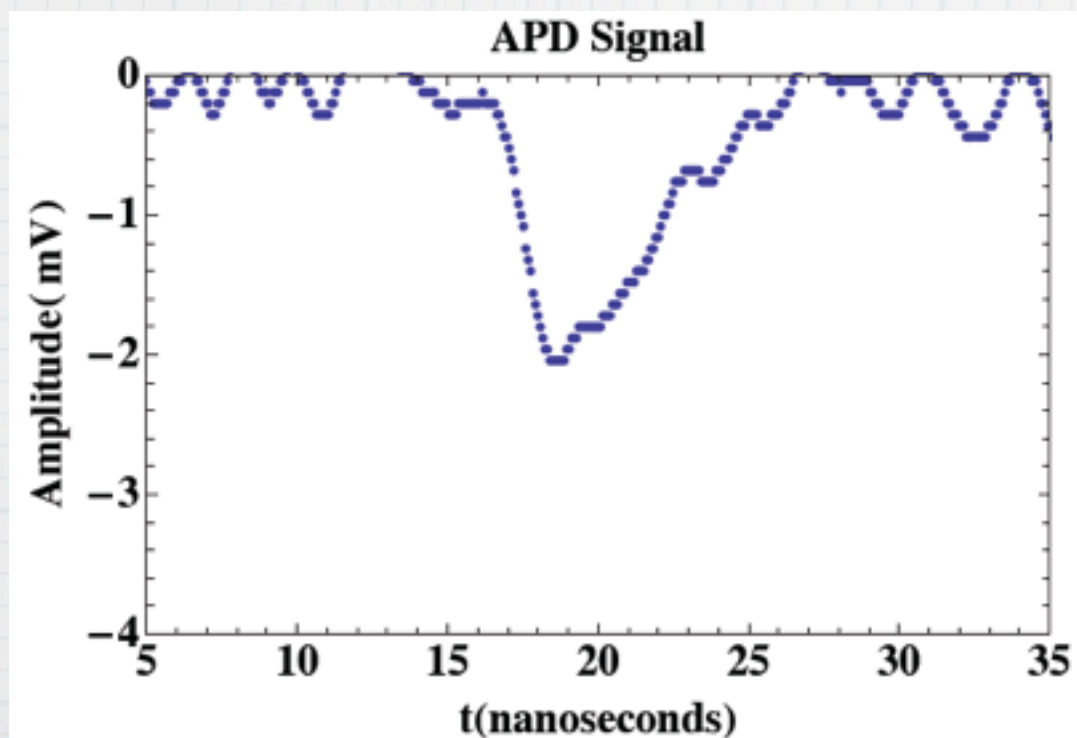


target out at 20,40cm
consistent w. apd noise

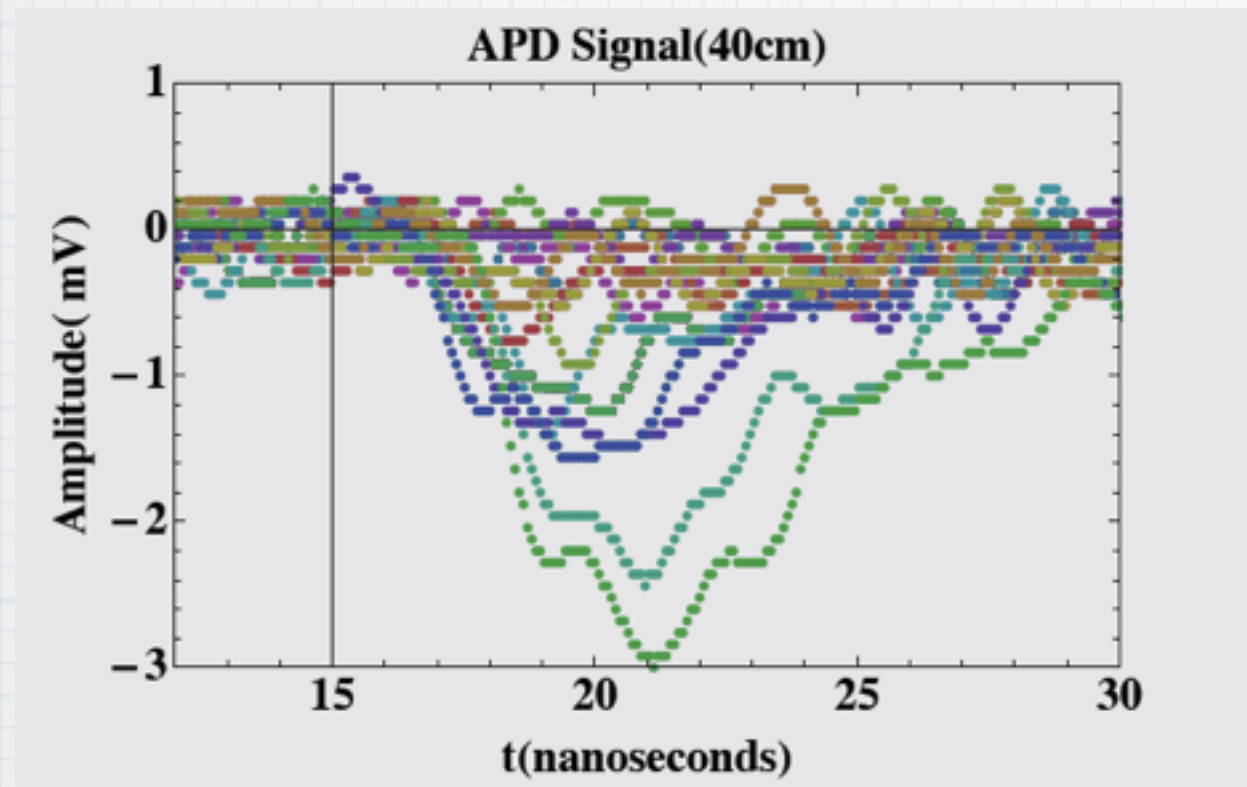
pedestal=5%*signal



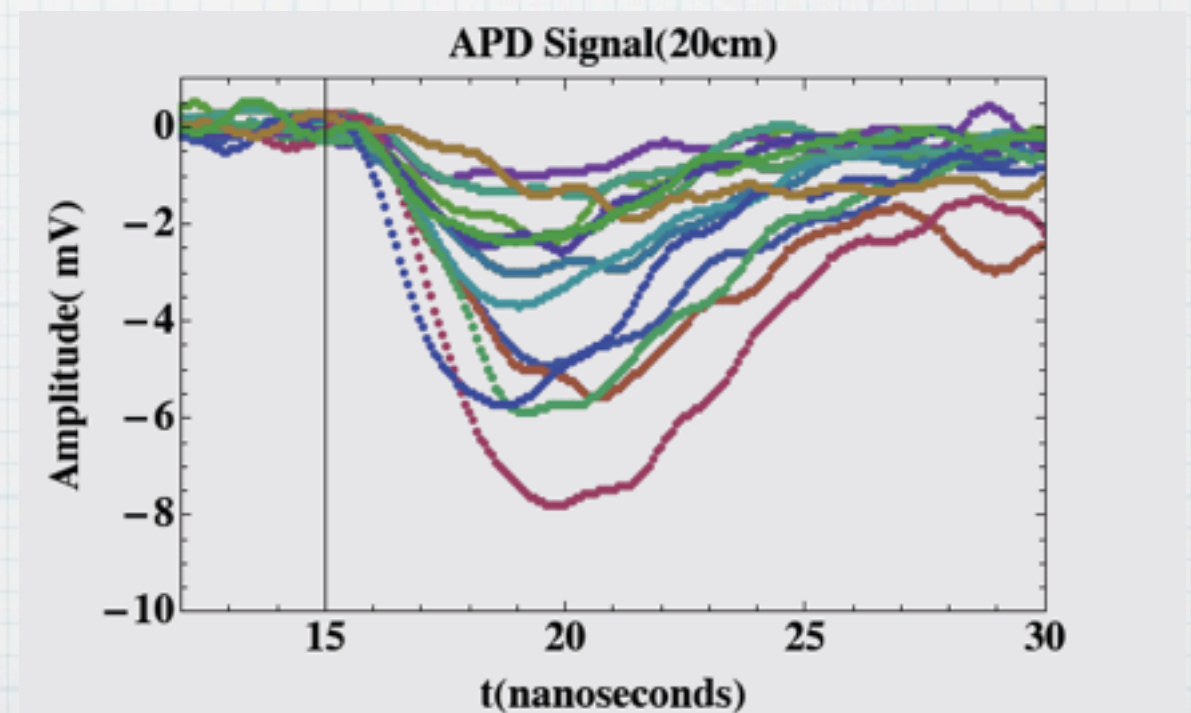
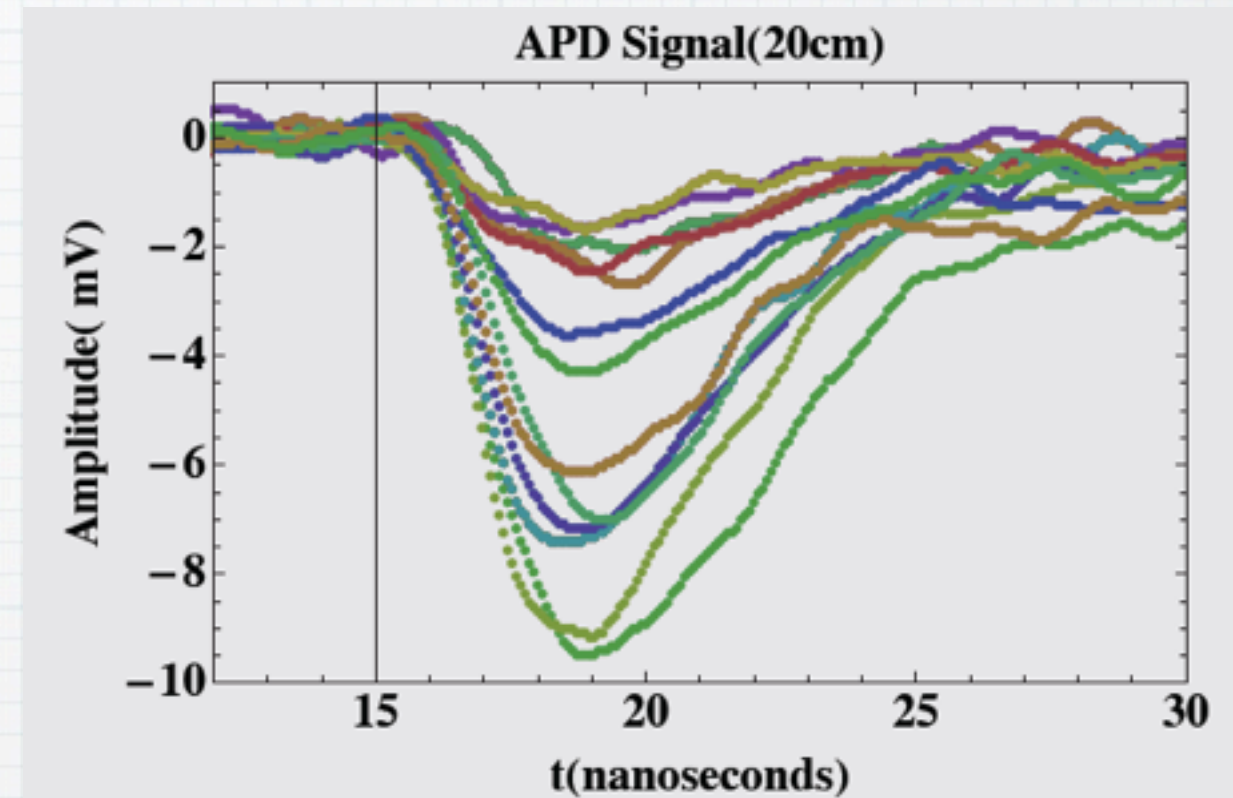
typical e^- candidate



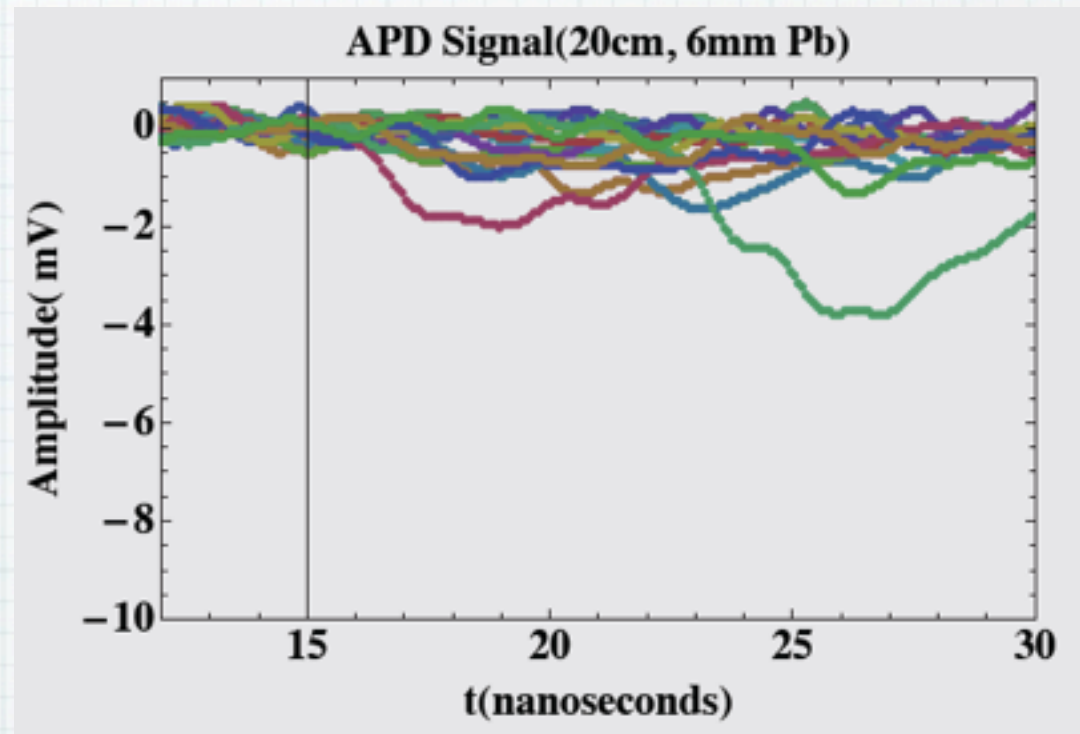
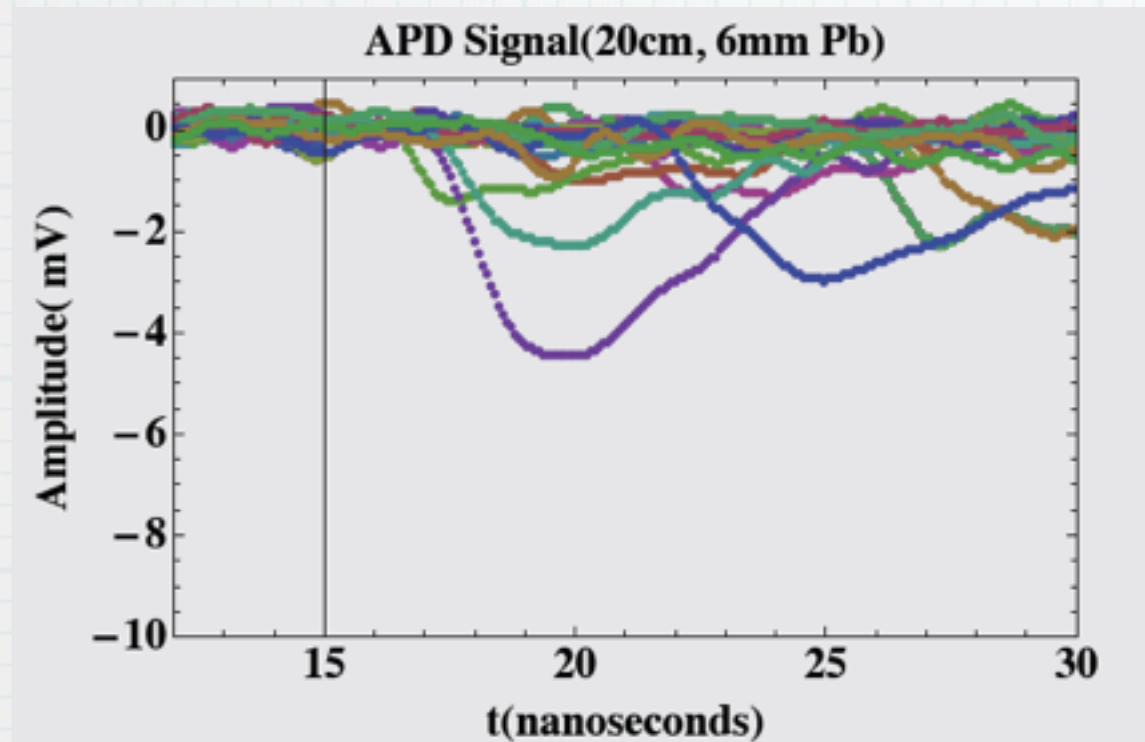
another 40 pulses @ 40cm



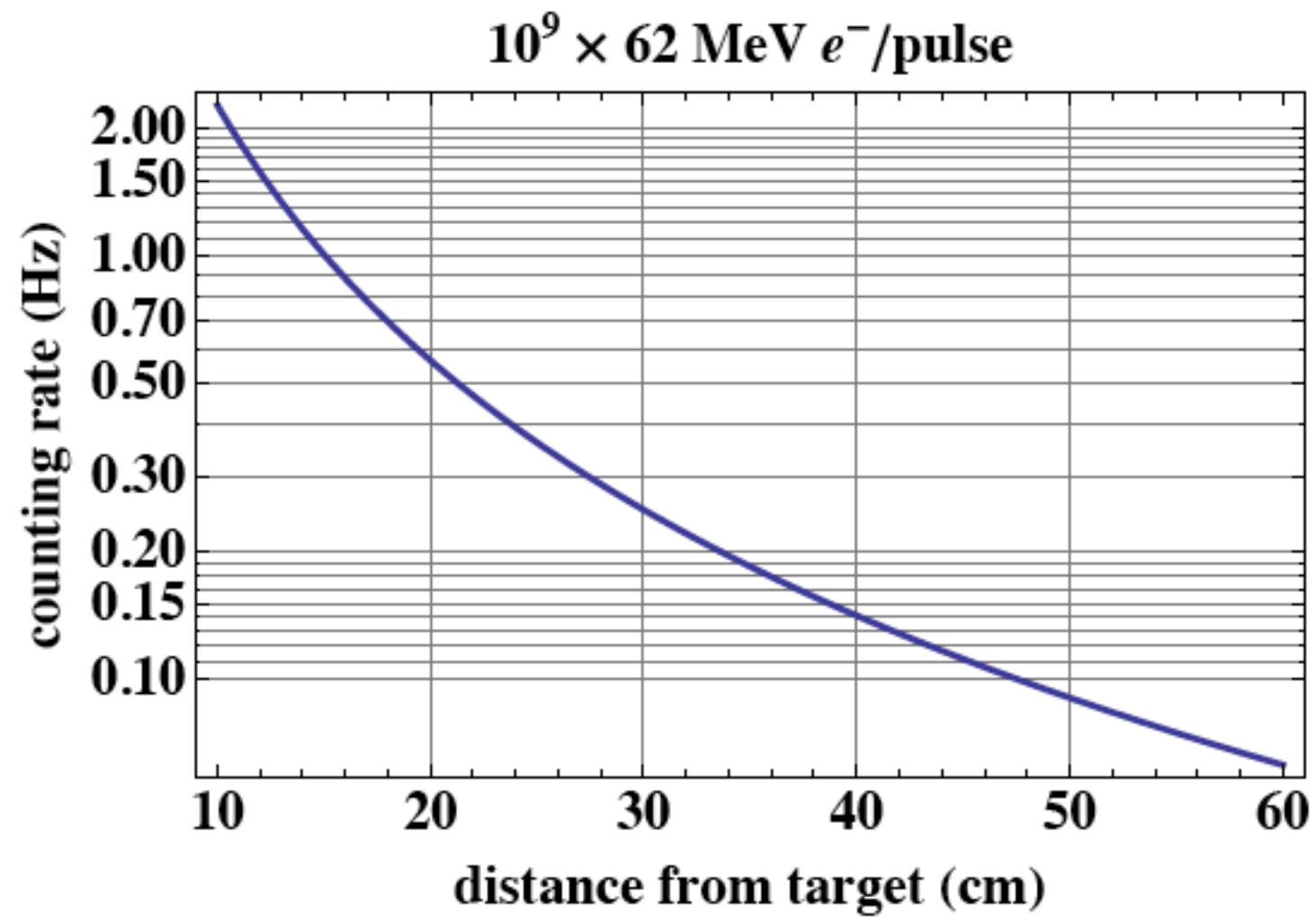
and @ 20 cm



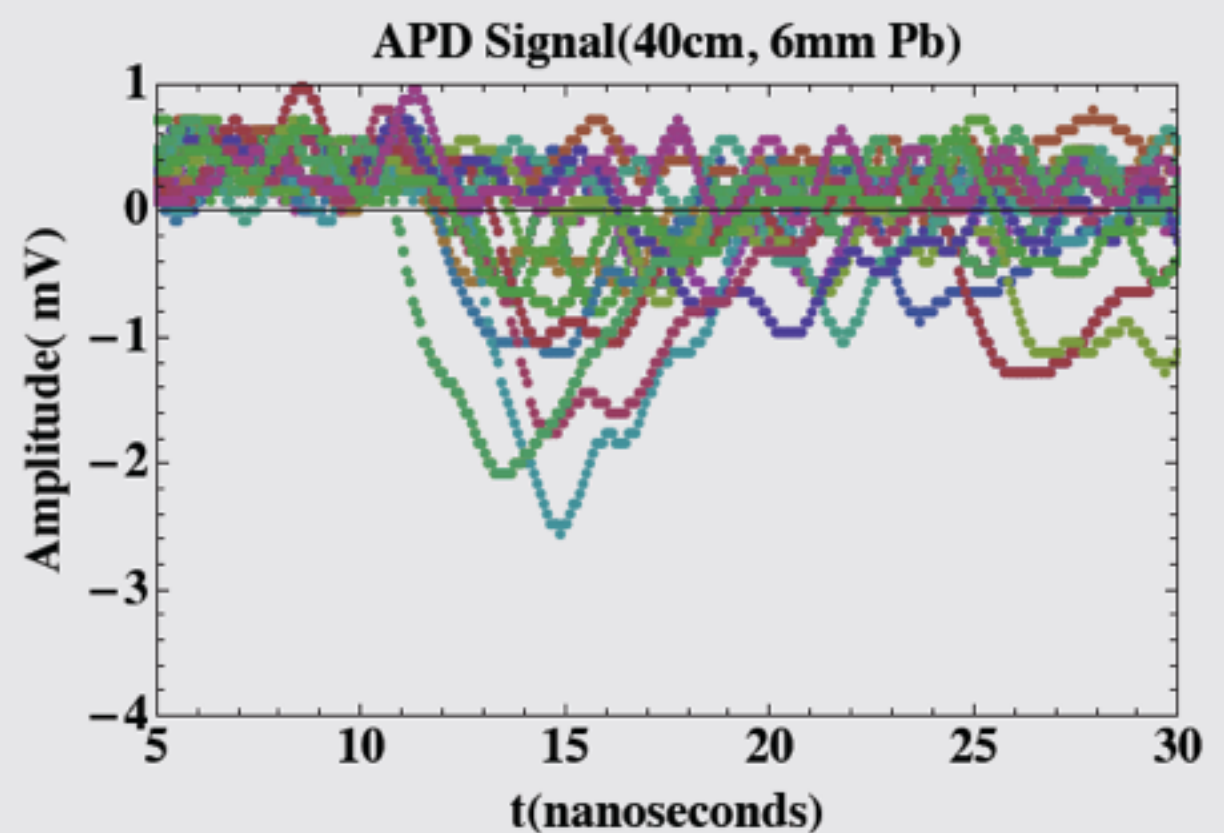
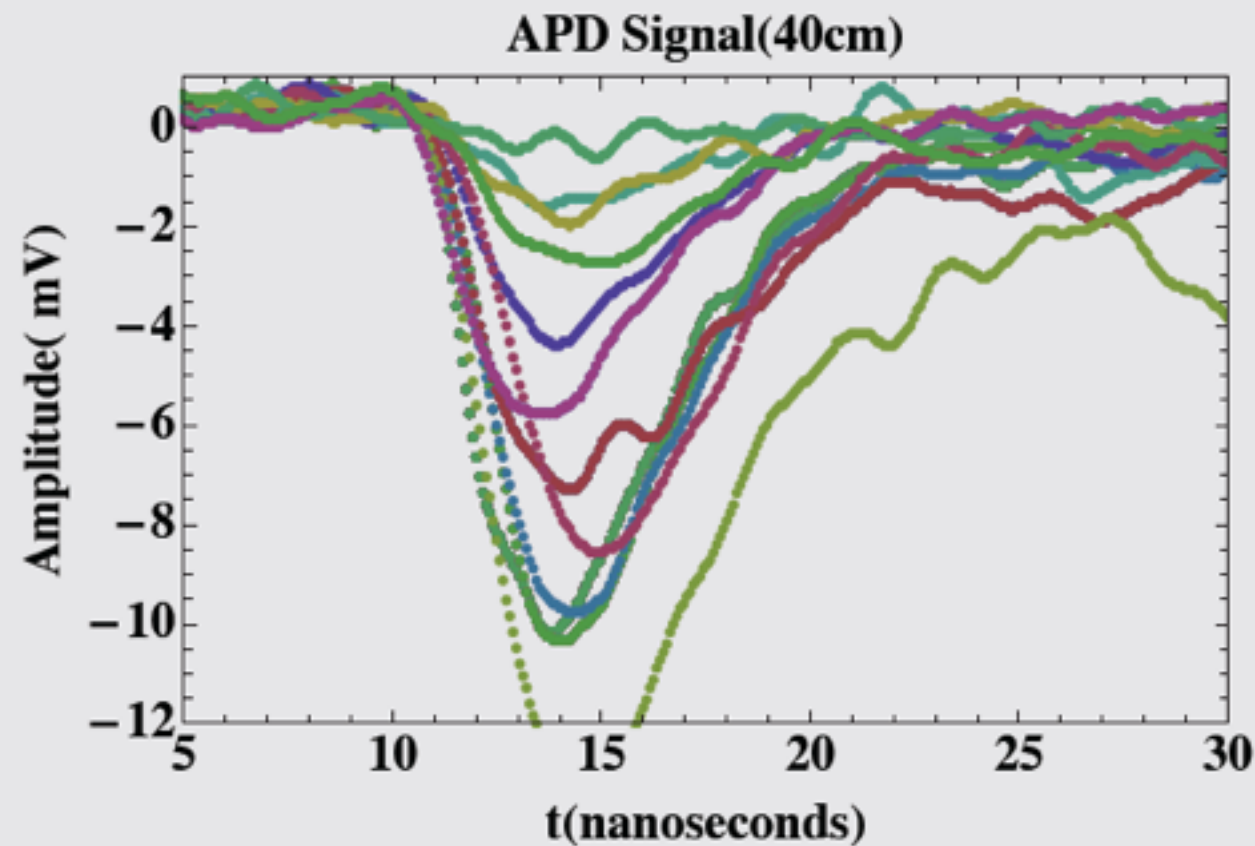
big reduction from 1 x0 of Pb

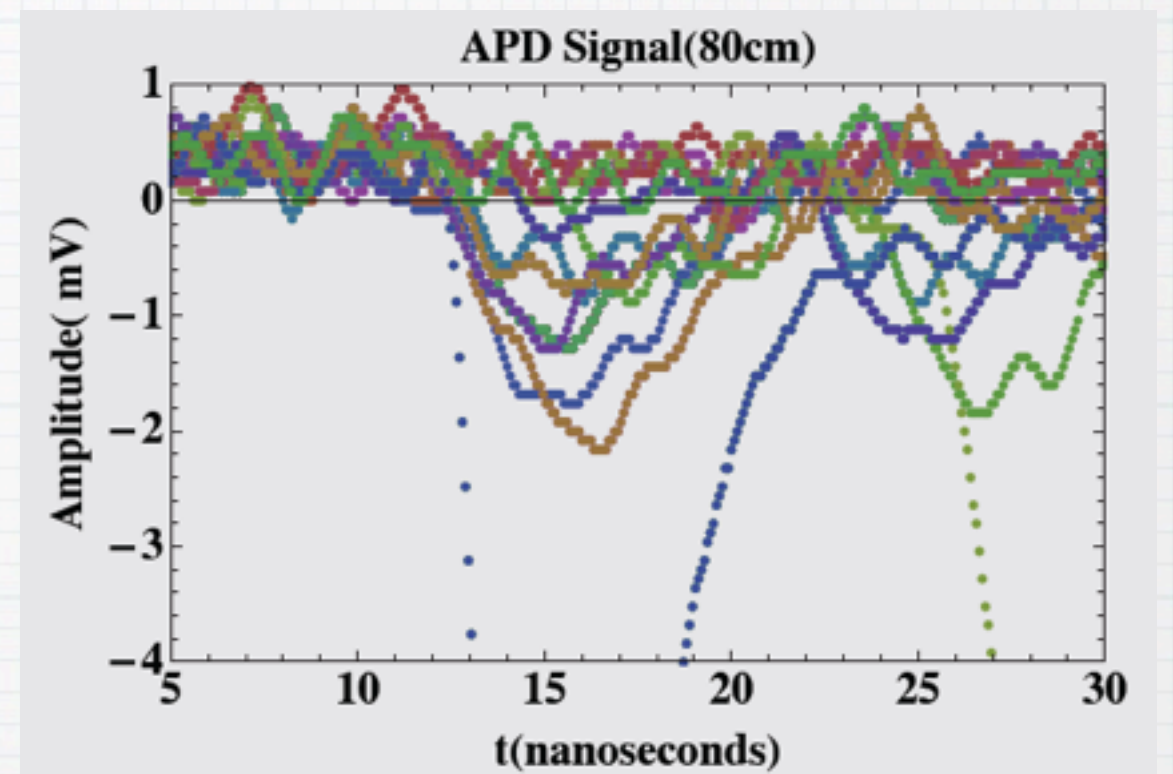


Rates



Now look at Apr. 8 data





Stripline signals larger and better timing

