**1** 200mV Ω **3** 1.00 V Ω **4** 1.00 V Ω

40.0ns

1 \rightarrow \blacktriangledown 60.0000ns

2.50GS/s

10k points

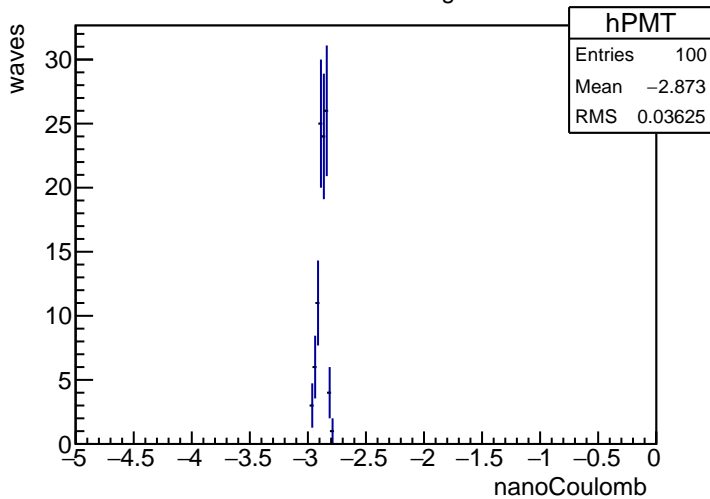
4 \int

-320mV

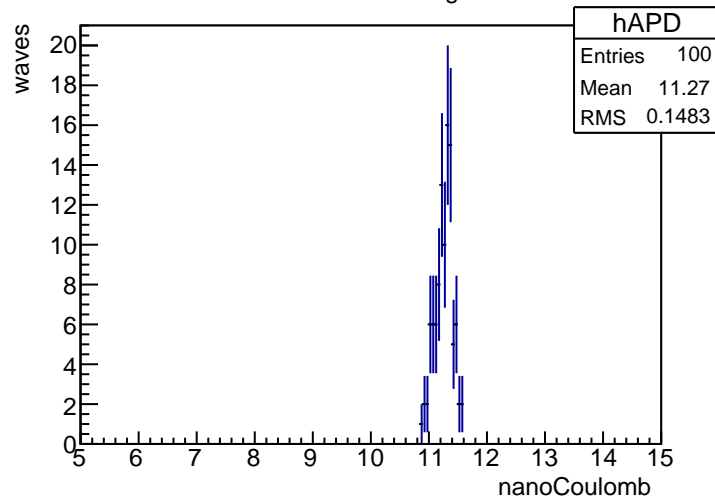
22 Mar 2016

06:26:46

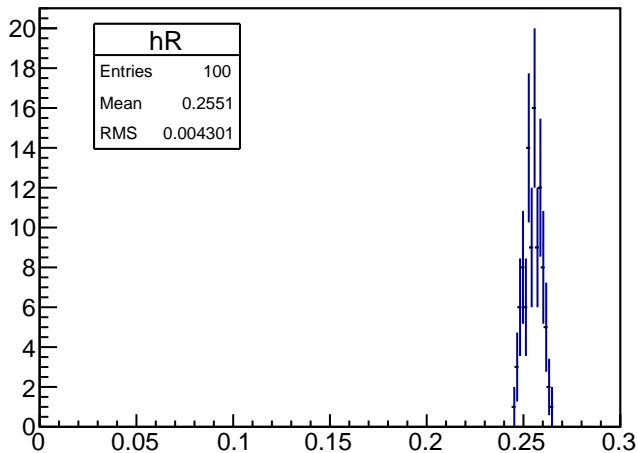
PMT Pulse Charge



APD Pulse Charge



Ratio of Pulse Integrals



Relative RMS

$$\text{PMT} = 0.0126 = \text{Pulse} \oplus \text{Laser} \oplus \text{PMT}$$

$$\text{APD} = 0.0132 = \text{Pulse} \oplus \text{Laser} \oplus \text{APD}$$

$$\text{Ratio} = 0.0169 = \text{APD} \oplus \text{PMT}$$

$$\text{Pulse} \oplus \text{Laser} = 0.0049$$

$$\text{True PMT rms} = 0.0116$$

$$\text{True APD rms} = 0.0122$$