



Week 7 Report

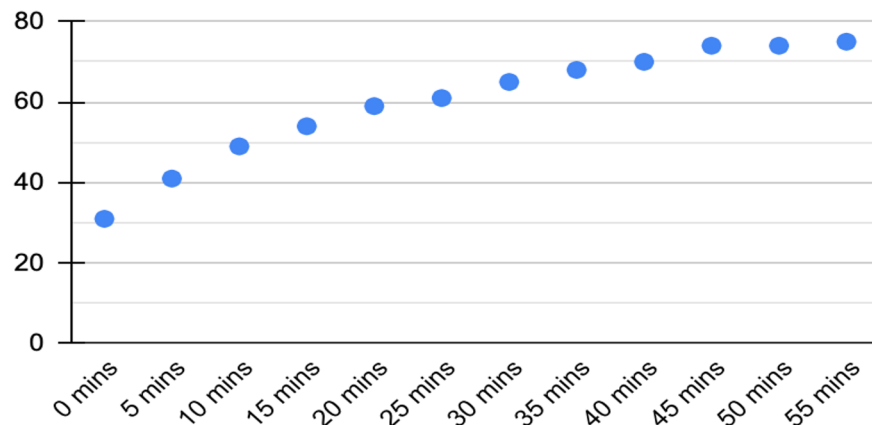
By Vadim Murakhovskiy

Graphing the time variable

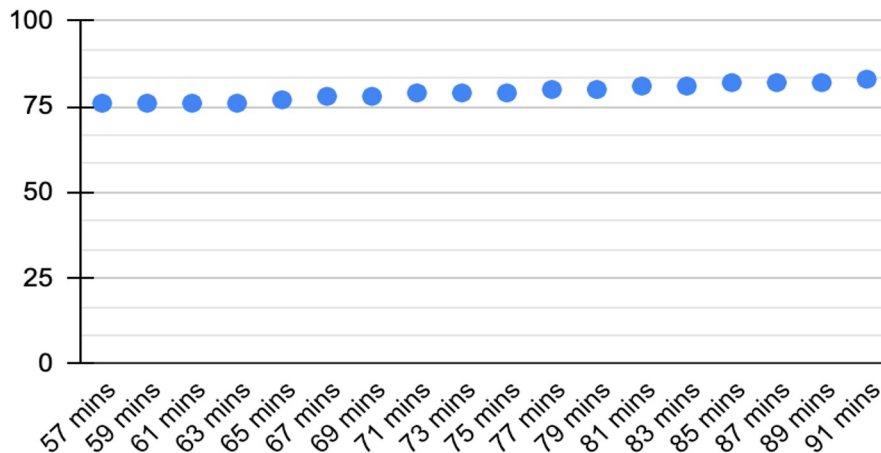
It was found that the time the laser is active on the pmt effect peak output drastically depending on amount of time.

The peak increase reverts after turning off the laser for about the same amount of time

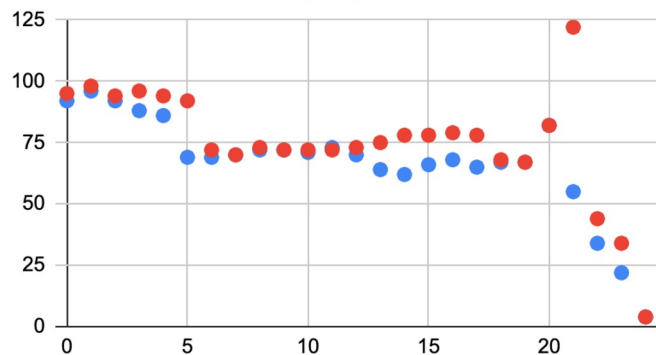
5min interval



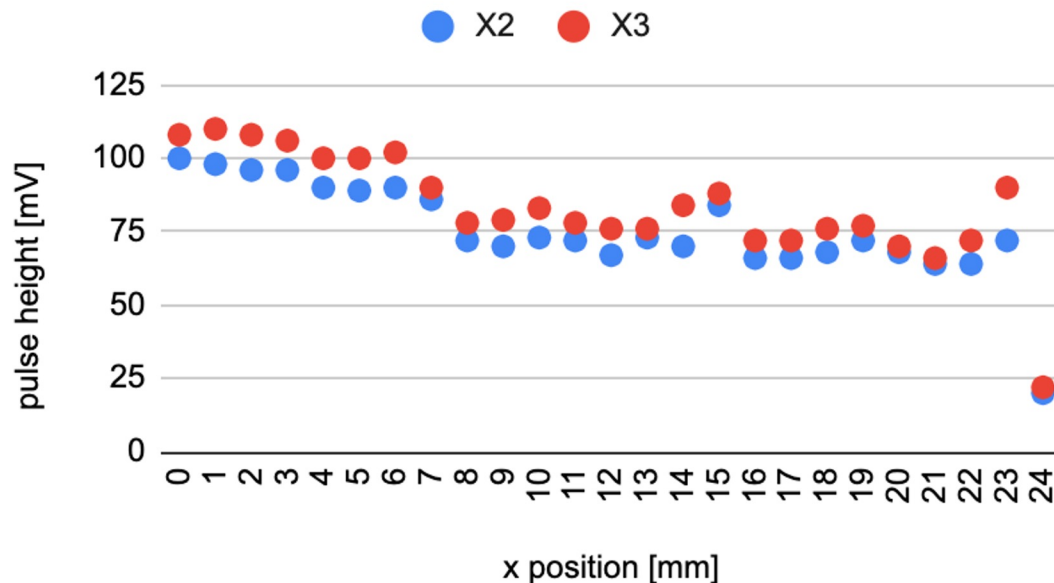
2min interval (continued)



Troubleshoot: Laser heat and time factor

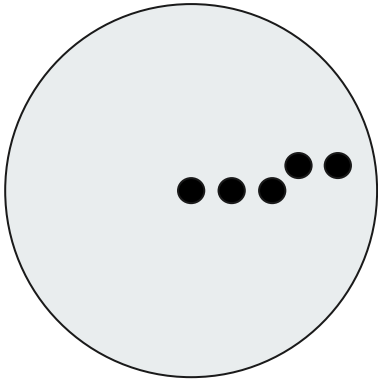


X2/X3 Scan ($y=0$, $\theta=0$, TTL width $170\mu\text{s}$)



Possible Errors

Front of Cone



The 10 to 15 mm mark while moving the laser does not have a clear marker.

Platform shifts the Y slightly after $x=10$ approaching $x = 15$

