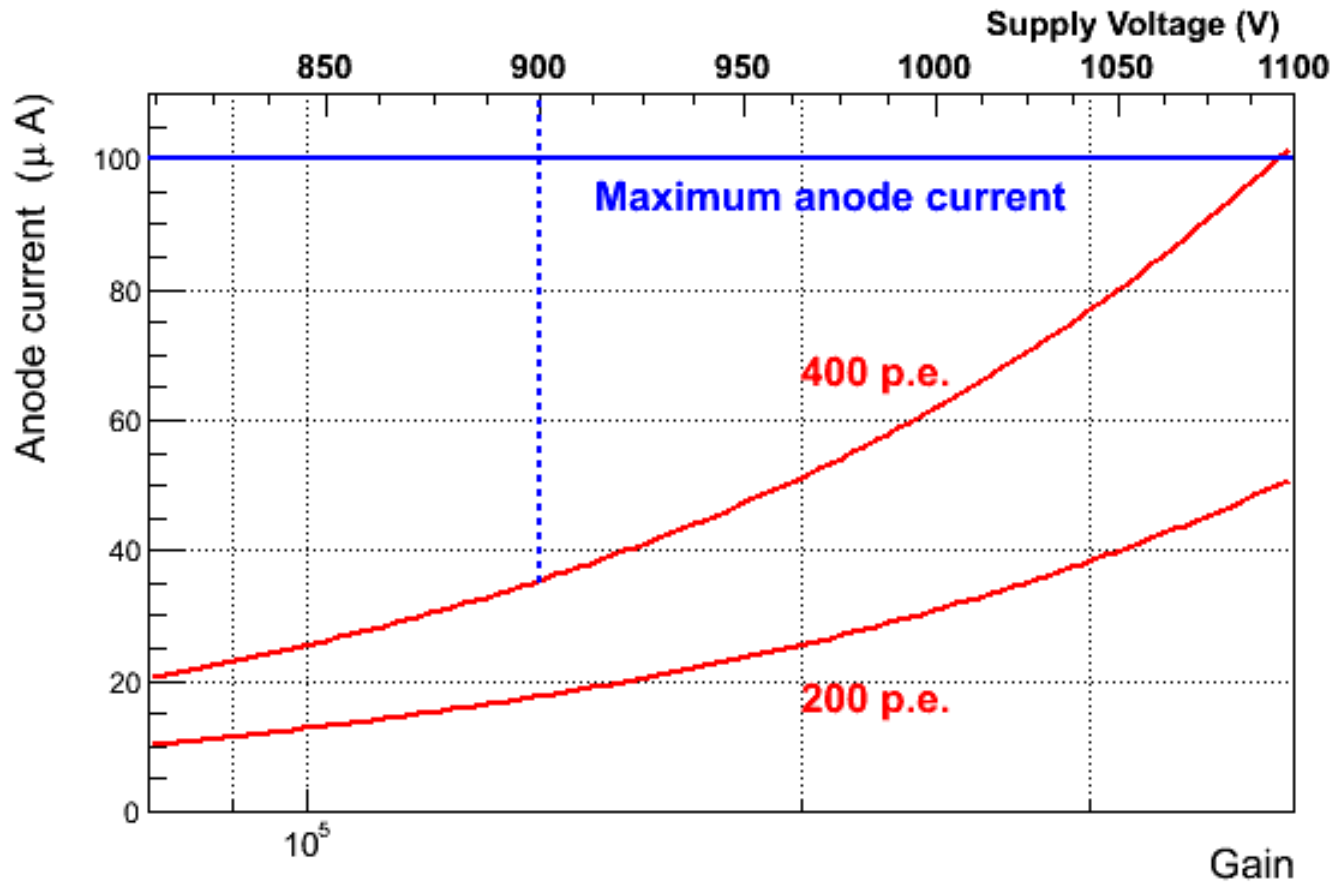


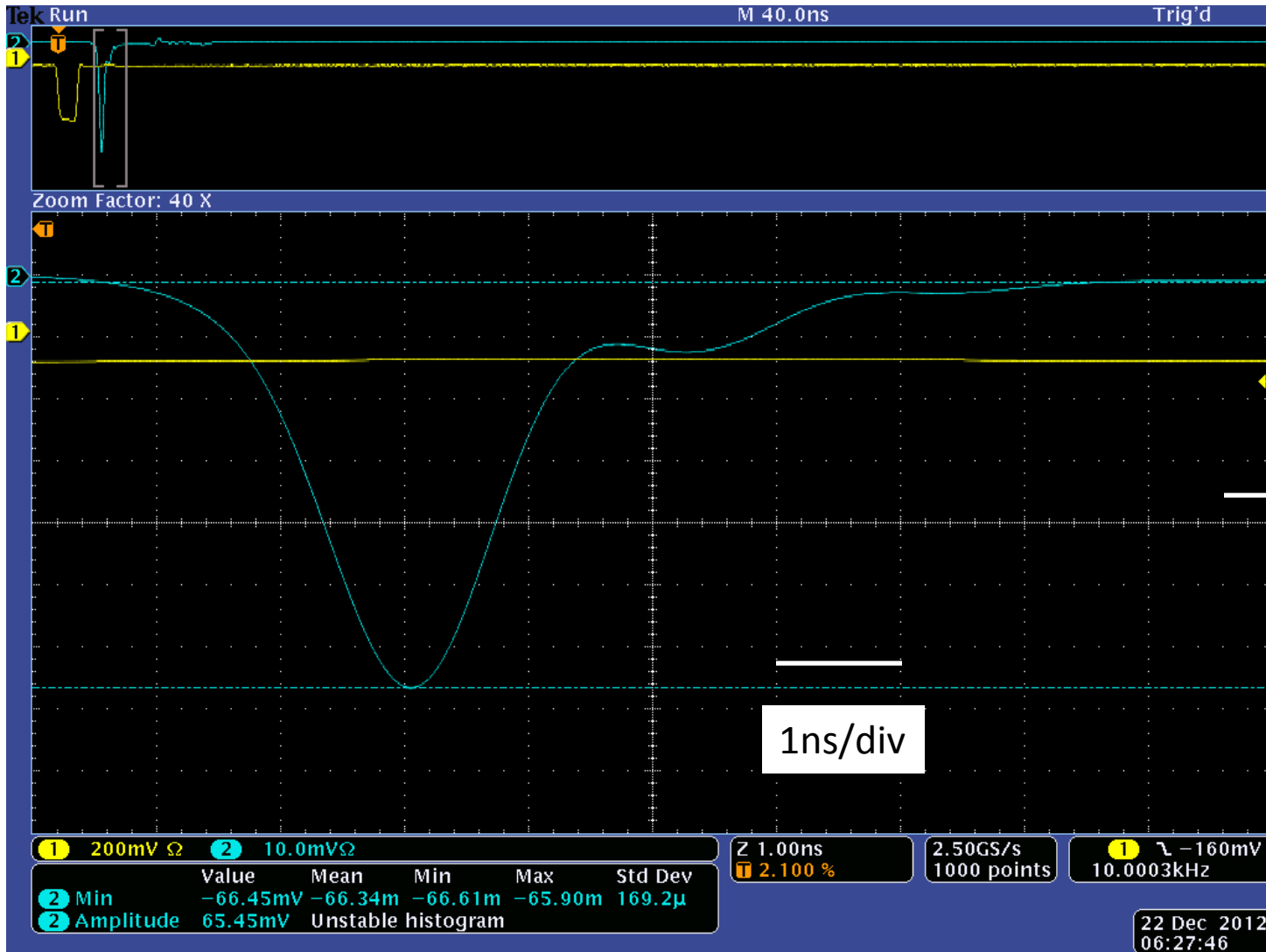
High rate performance of H10580 PMT assembly

Specifications



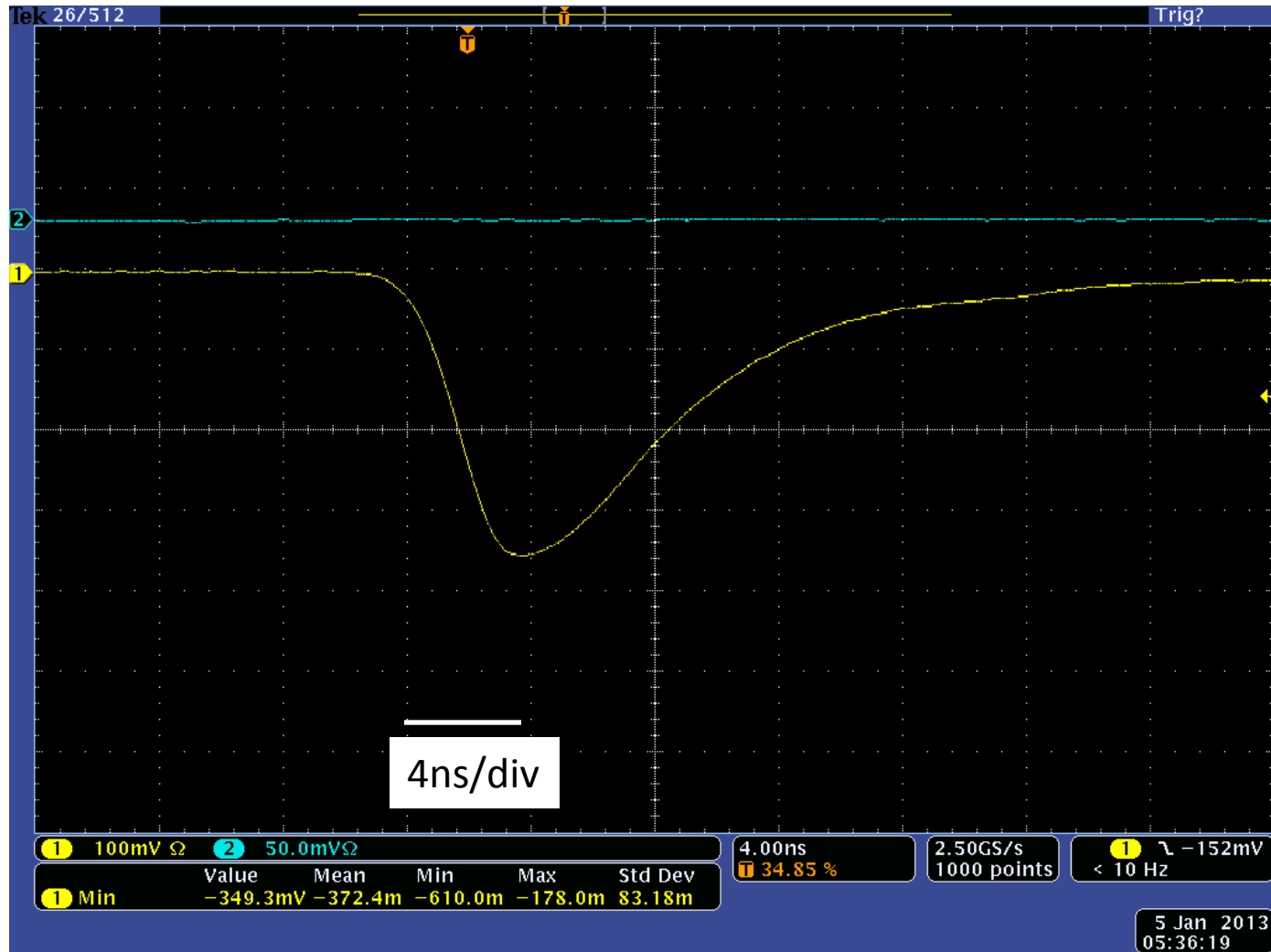
Pulse Shapes

Laser



Pulse Shapes

Cosmics

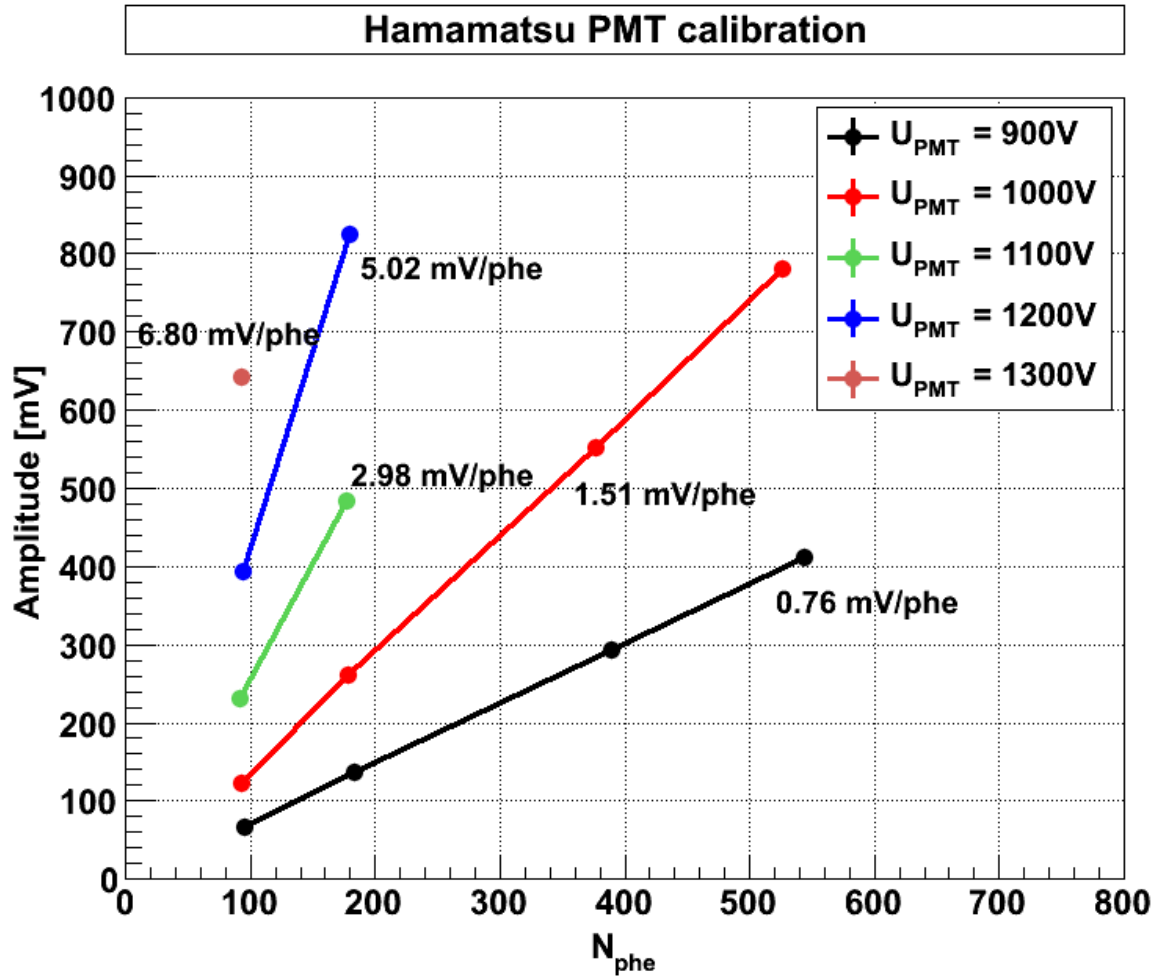


$A_{\max}(\text{Laser}) / A_{\max}(\text{Cosm}) \sim 4$

Calibration

Use FADC-250

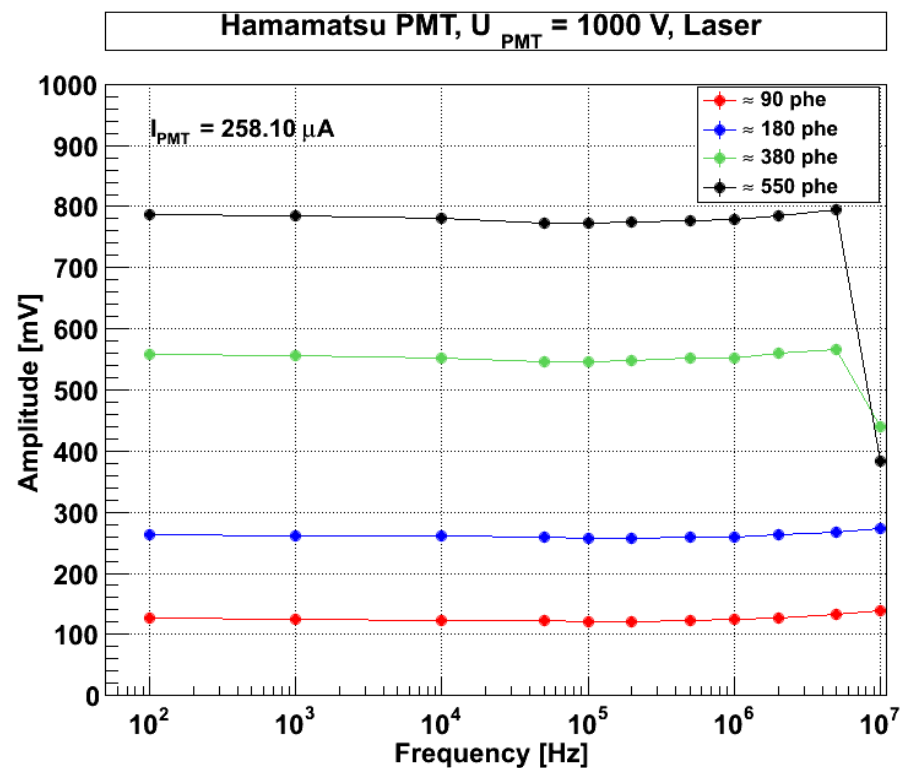
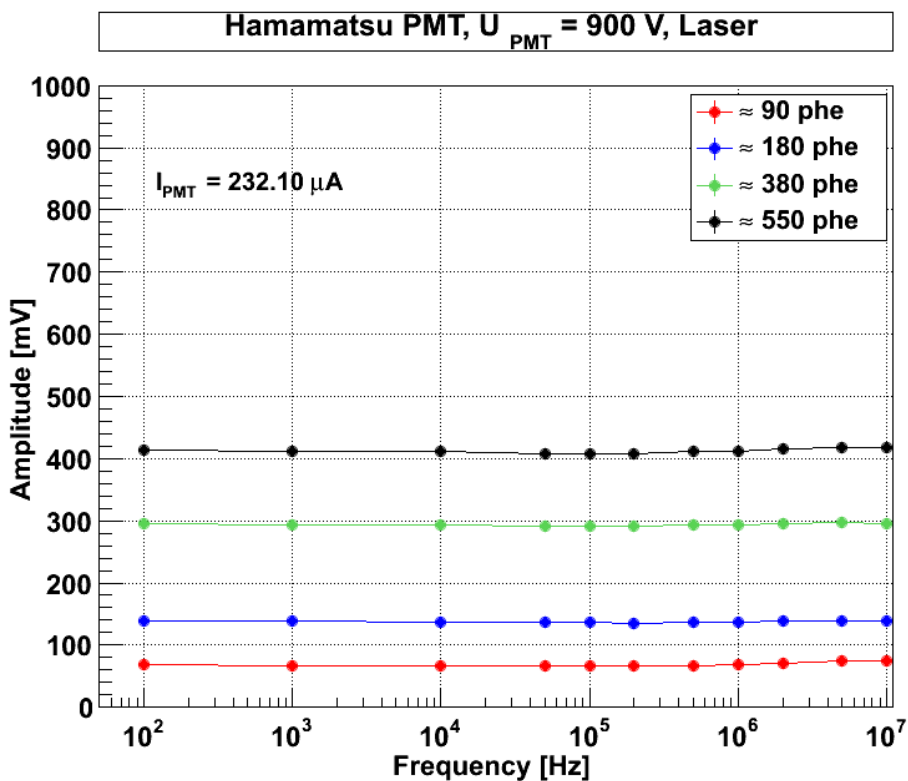
Determine single photoelectron peak



Amplitude from laser

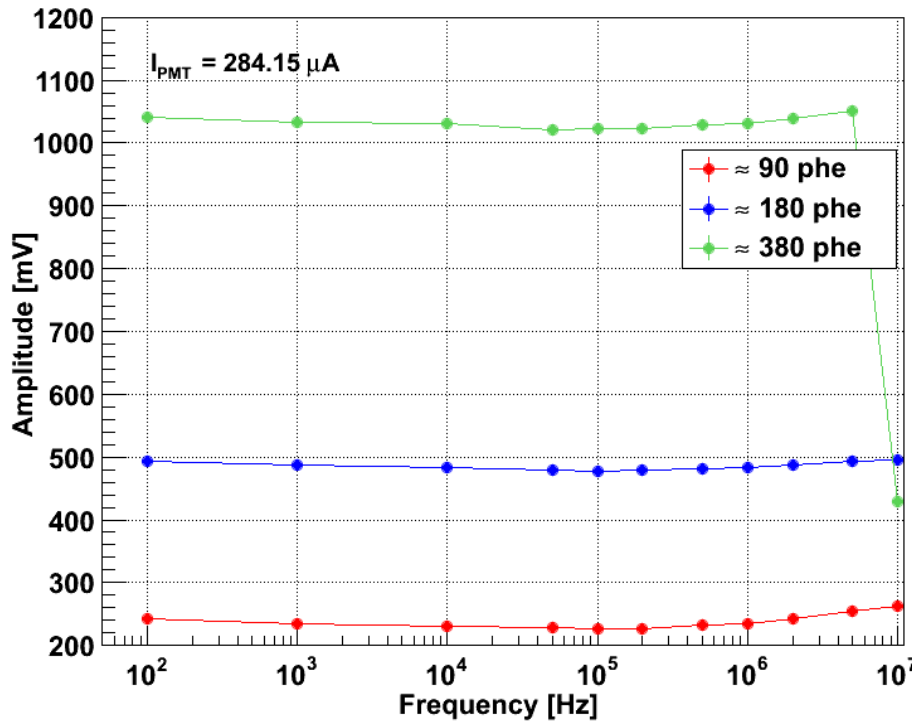
Amplitude from scint
~ 4 times smaller

Rate Dependence

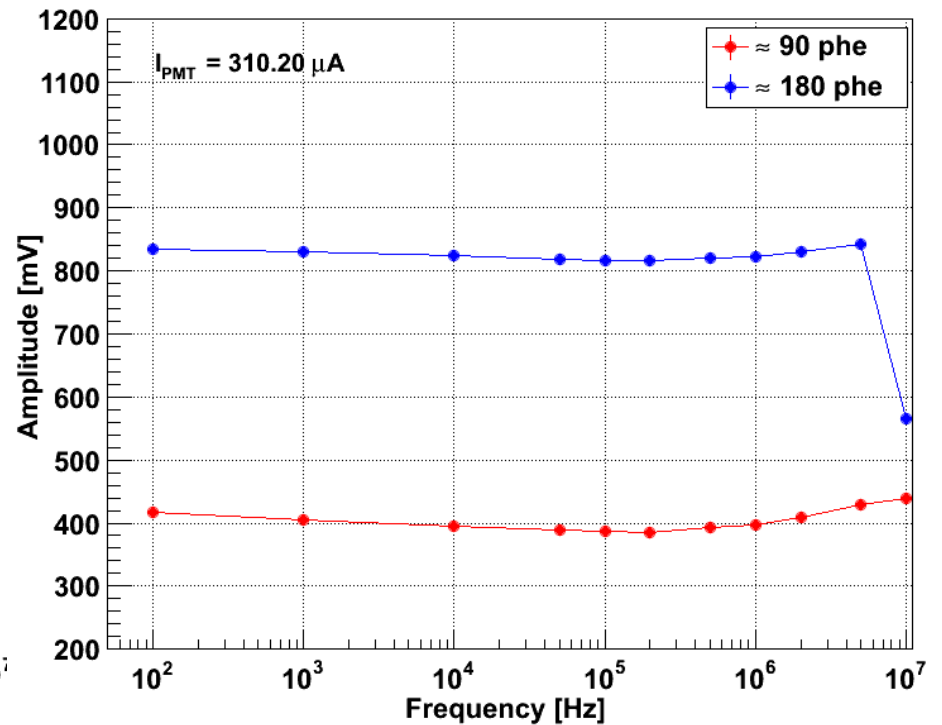


Rate Dependence

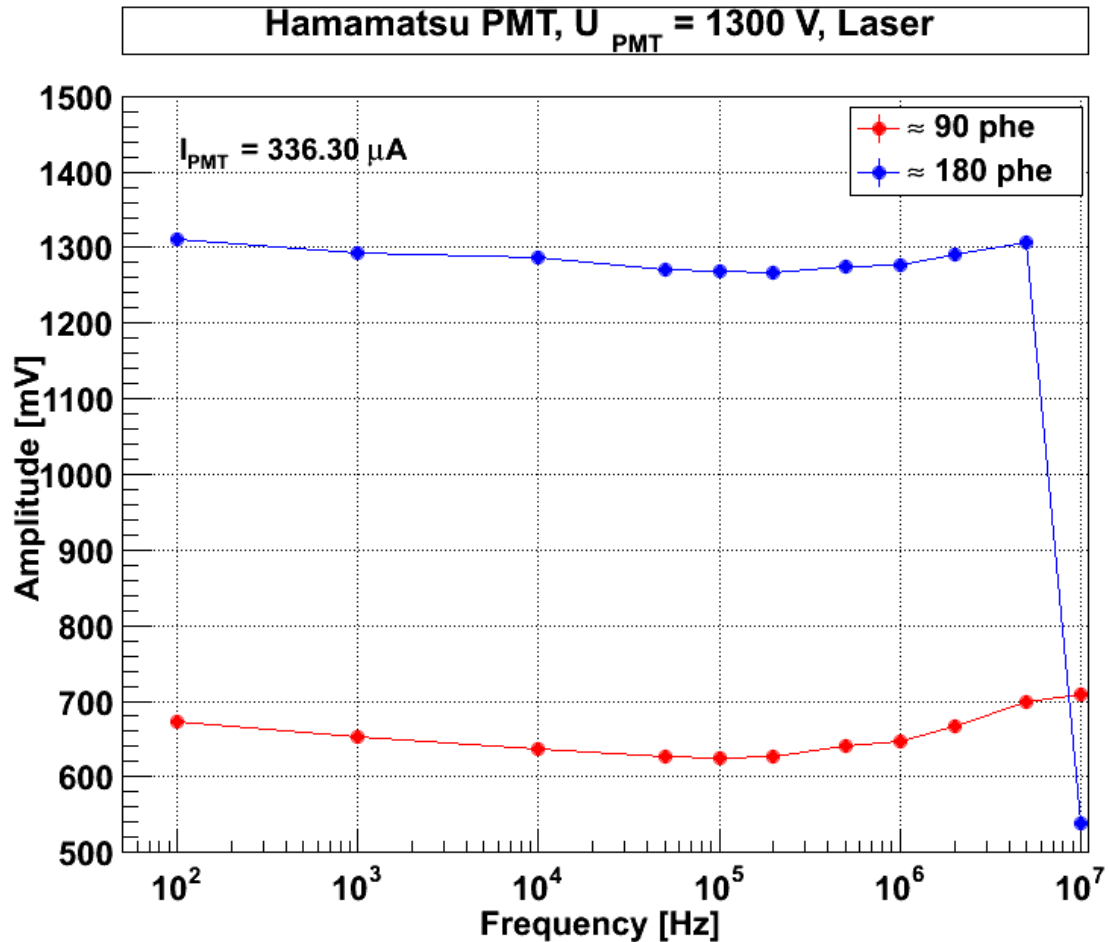
Hamamatsu PMT, $U_{\text{PMT}} = 1100 \text{ V}$, Laser



Hamamatsu PMT, $U_{\text{PMT}} = 1200 \text{ V}$, Laser



Rate Dependence



Estimates for NPE



~1000 p.e. for 4 cm wide and 2.5 cm thick scint

Expect 250 - 400 p.e. for 6 cm thick fixed-array counters

