

Proton Therapy Group Meeting

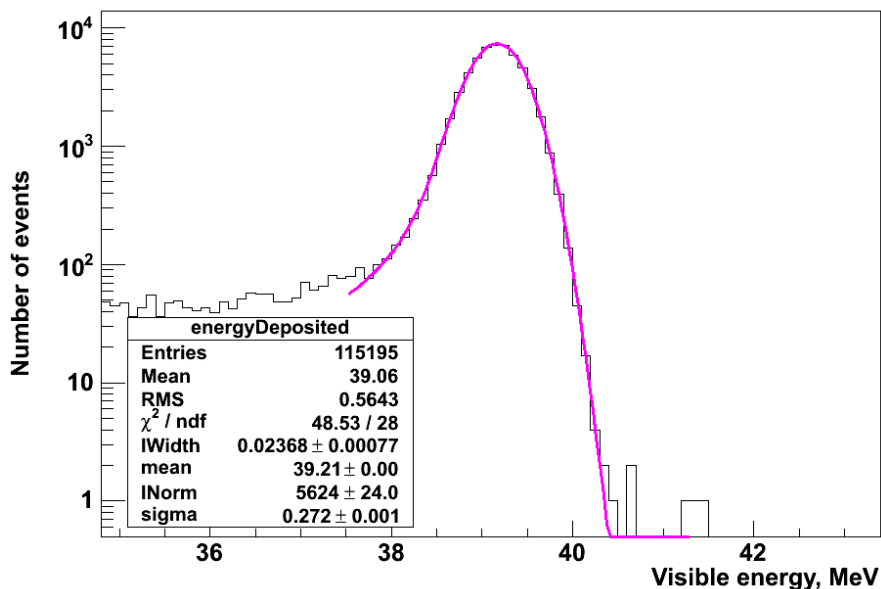
15th November 2017

Anastasia Basharina-Freshville
(University College London)

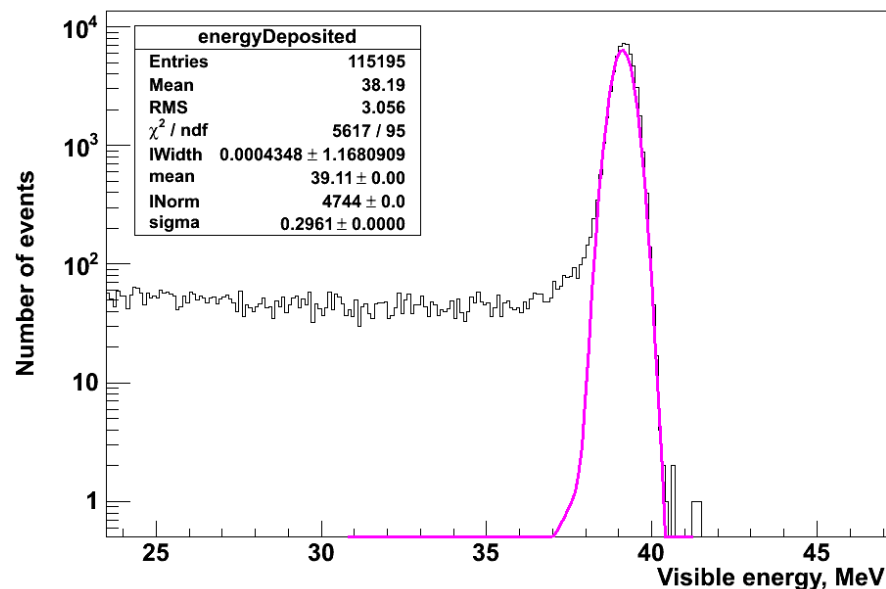
Simulation Fitting

- Simulation with end cap over the collimator
- Landau-Gaussian convolution

Energy Deposited in Scintillator



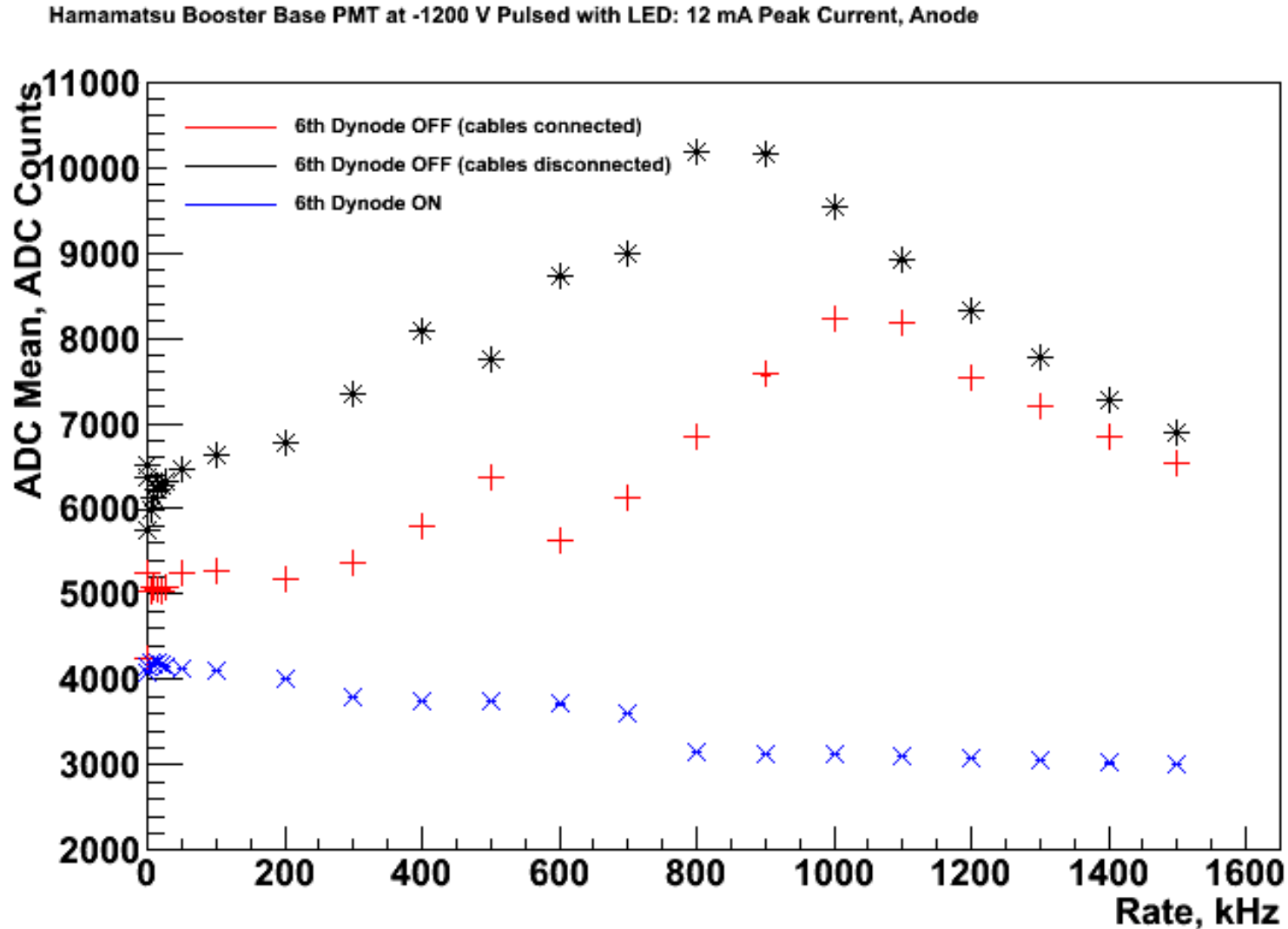
Energy Deposited in Scintillator



- Ideas for fits to try?
- More in depth simulation update from Matthieu, but
 - No improvement to peak to tail ratio with a 5° offset
 - Waiting for accurate end cap dimensions from Clatterbridge – can we ask Jacinta?

Hamamatsu 2" PMT Booster Base

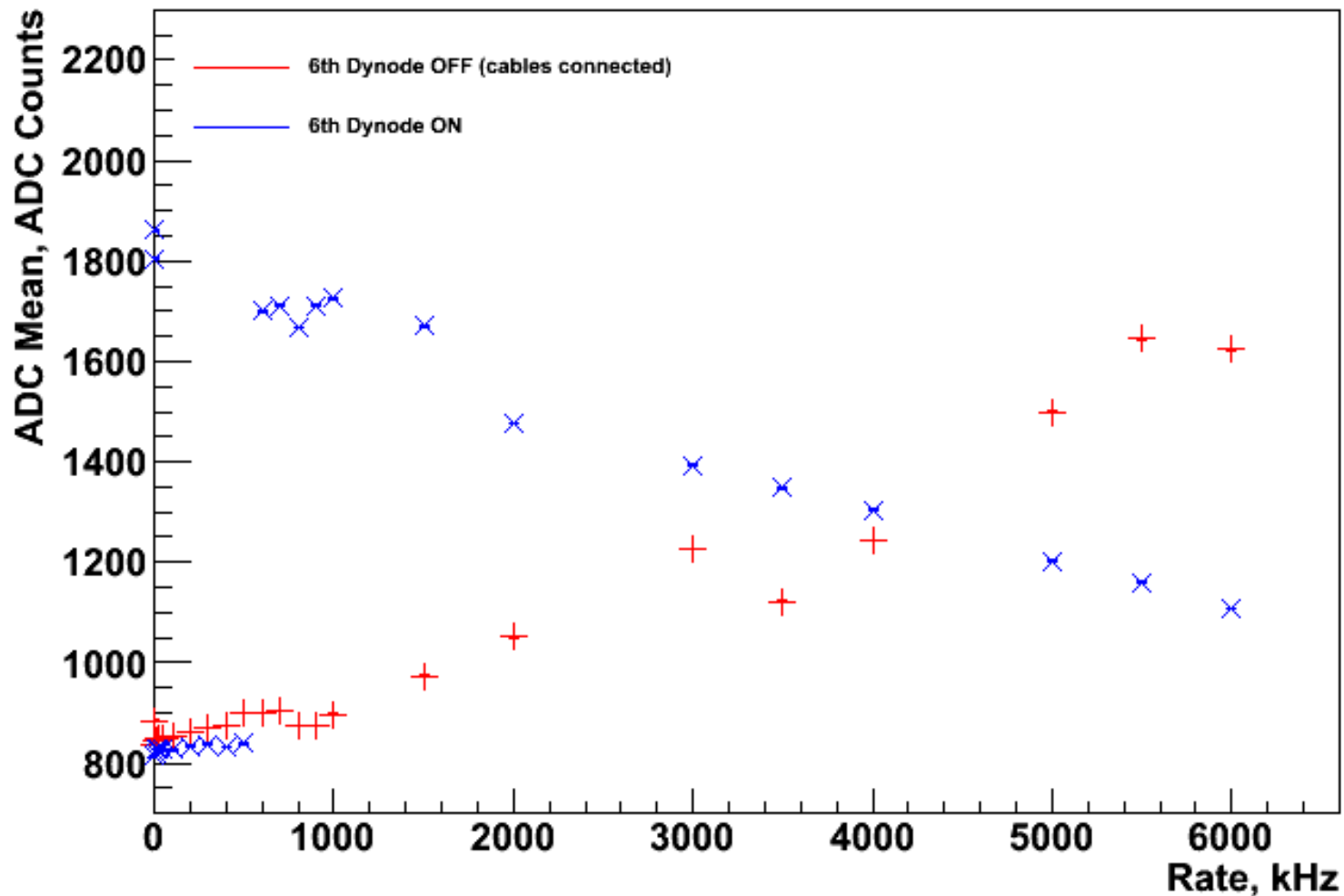
- 1200 V, 12 mA peak current, 6th dynode



Hamamatsu 2" PMT Booster Base

- 1200 V, 2 mA peak current, 6th dynode

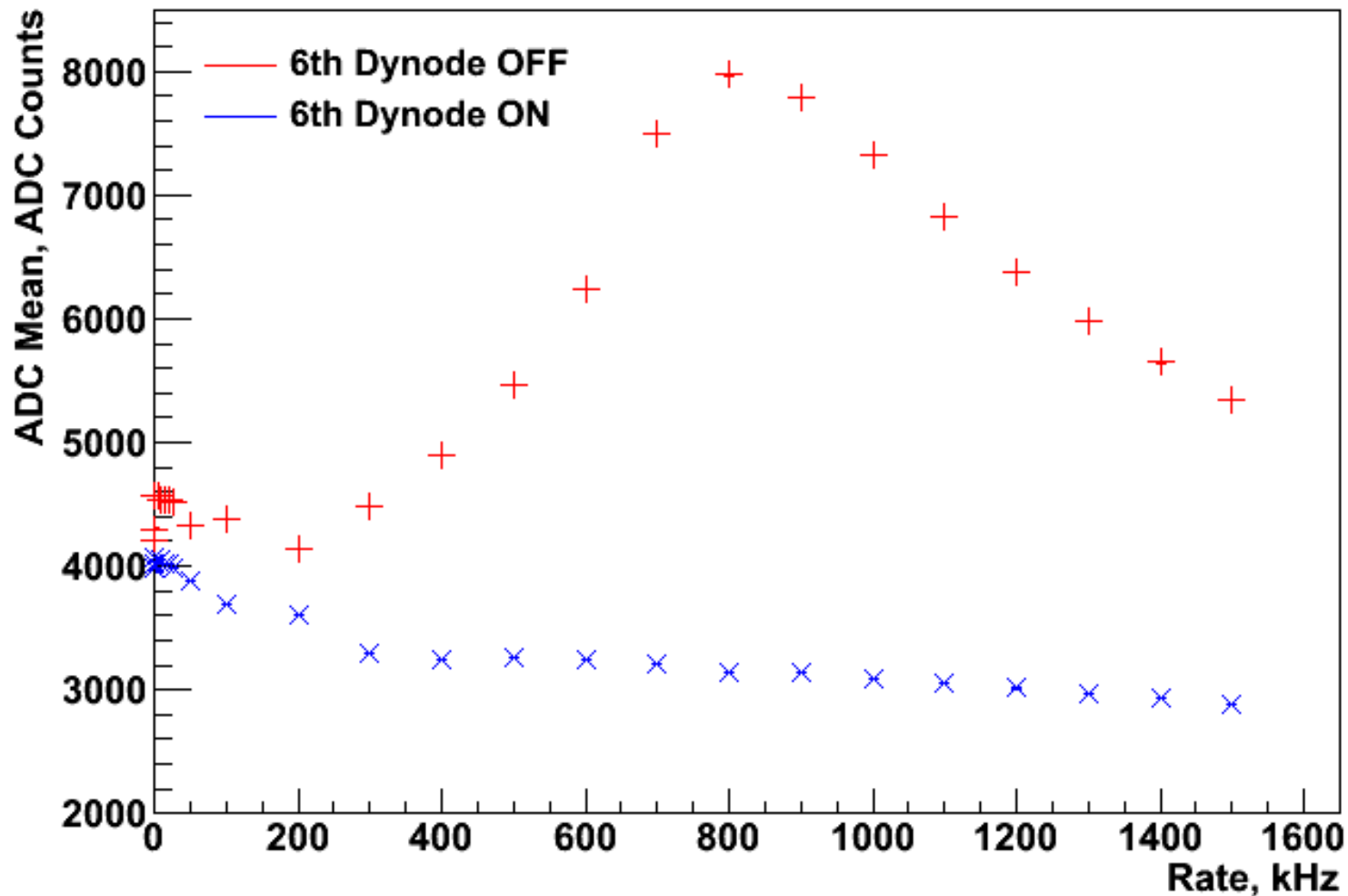
Hamamatsu Booster Base PMT at -1200 V Pulsed with LED: 2 mA Peak Current, Anode



Hamamatsu 2" PMT Booster Base

- 900 V, 10 mA peak current, 6th dynode

Hamamatsu Booster Base PMT at -900 V Pulsed with LED: 10 mA Peak Current, Anode



Hamamatsu 2" PMT Booster Base

- 900 V, 1 mA peak current, 6th dynode

