

Cherenkov Check

Hanjie Liu

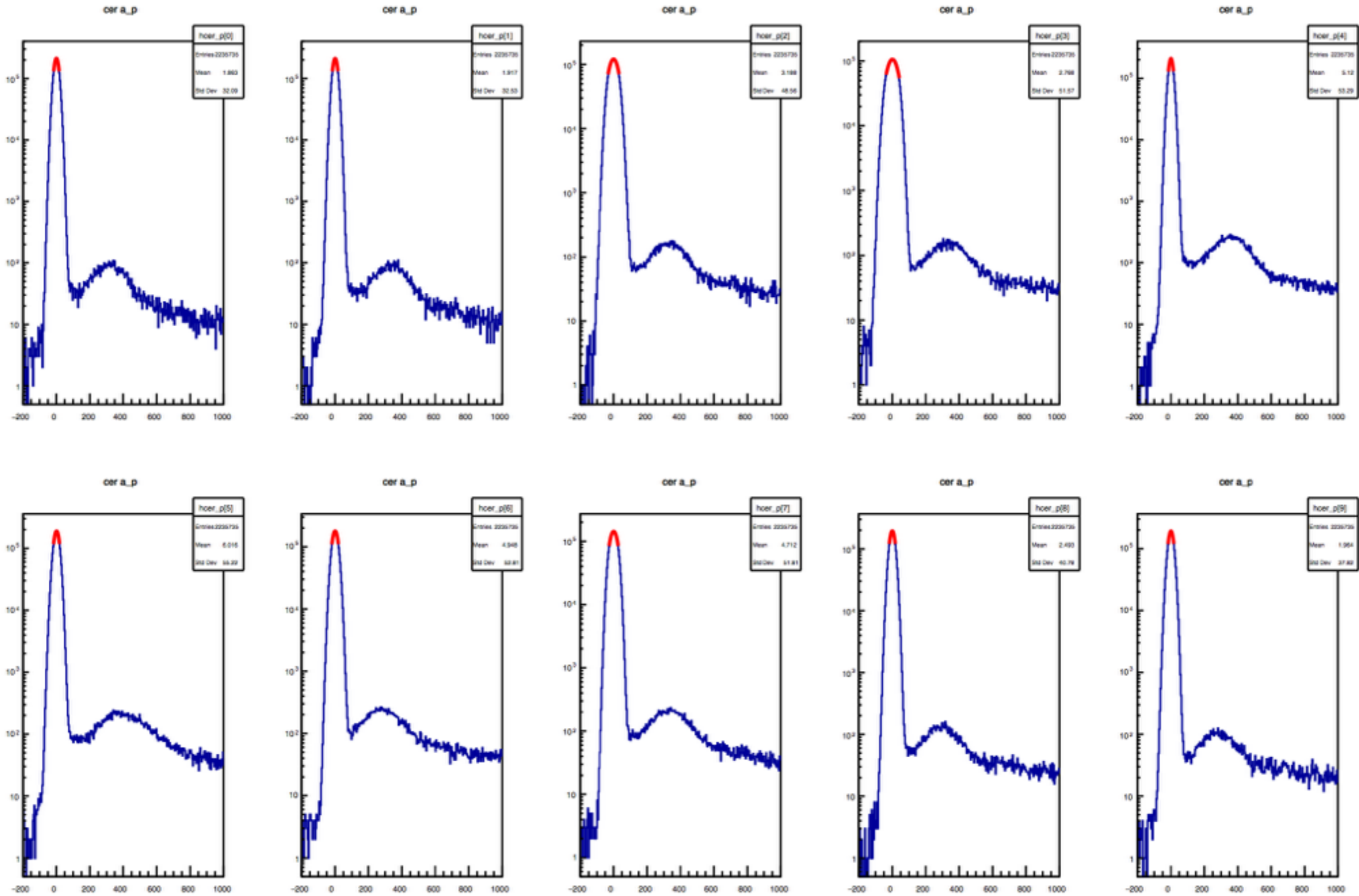
Cherenkov:

1. Pedestal check: 'gaus' fit 'L.cer.a_p';
2. Gain match check: 'gaus' fit 'L.cer.a_c' single photon peak (supposed to around 300)

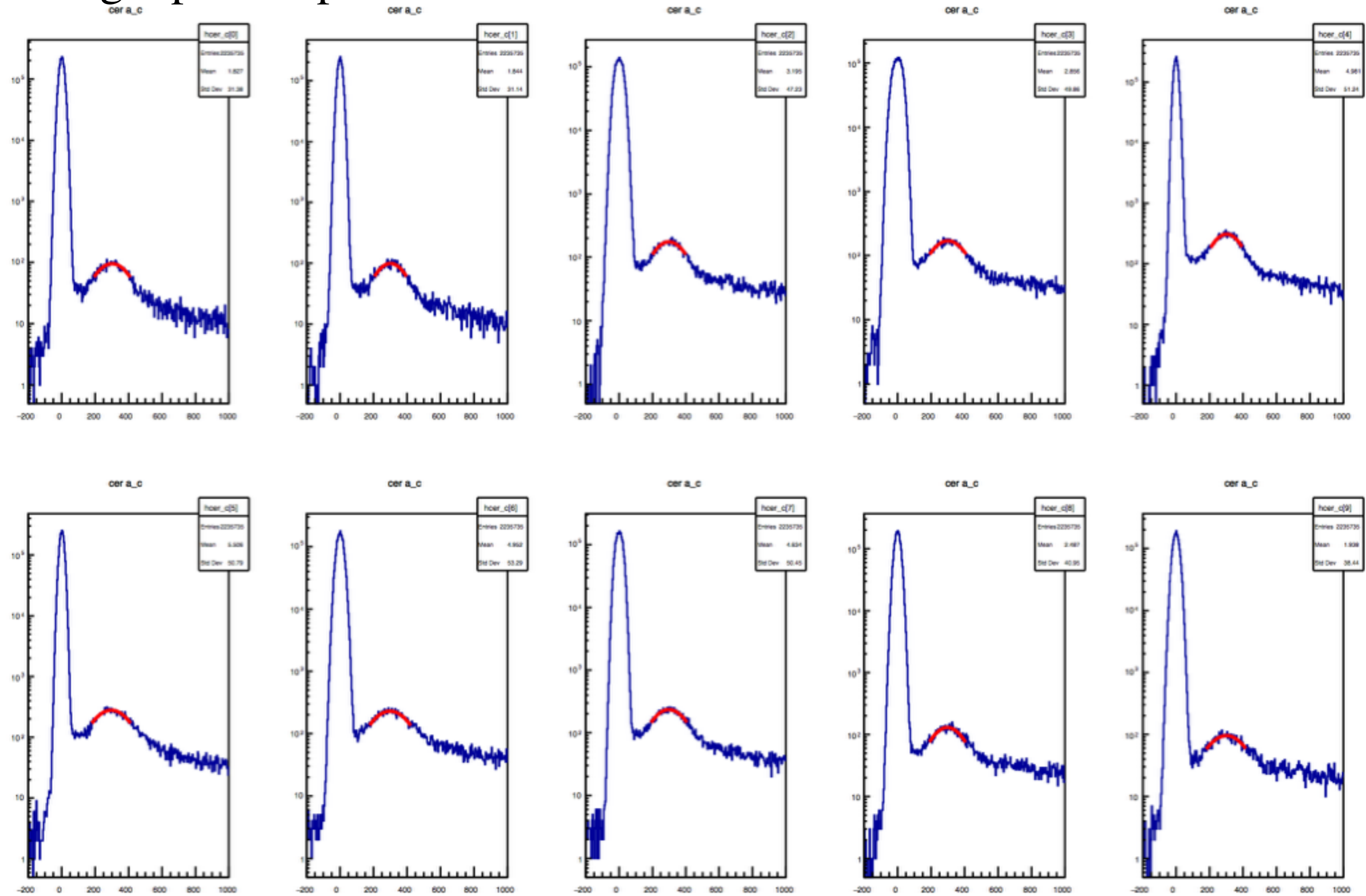
note: all the relayed rootfiles are used;

Don't draw when the fitted single photon peak is out of range (150,450) for LHRS or (200,500) for RHRS. The bad fit is always due to poor statistics.

Pedestal

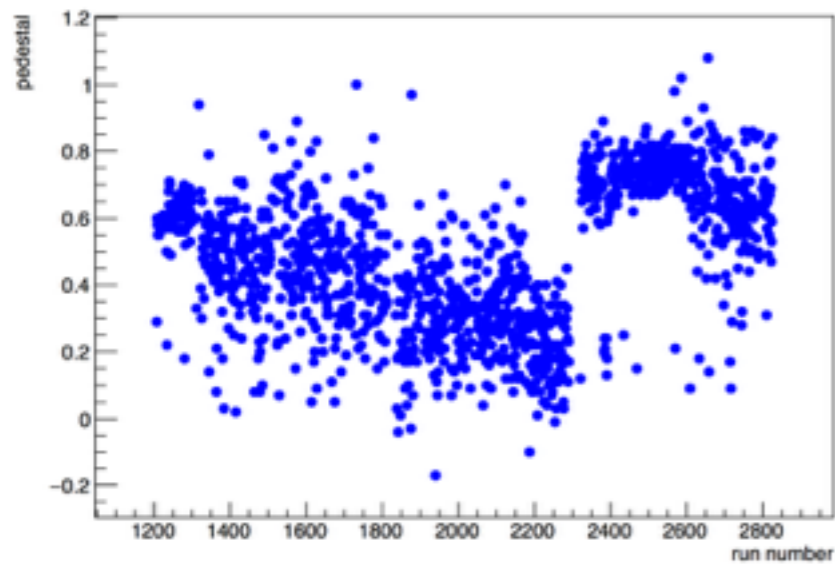


Single photon peak

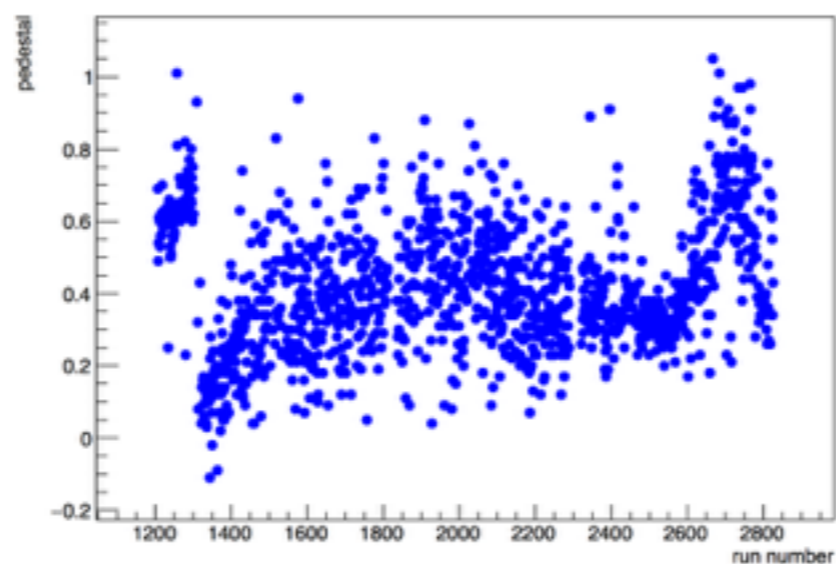


LHRS Pedestal

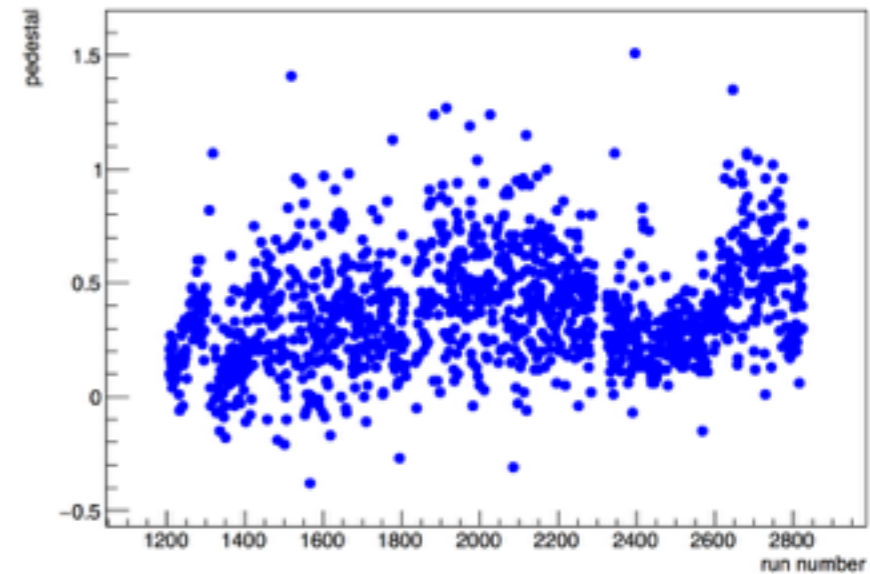
LHRS cer1



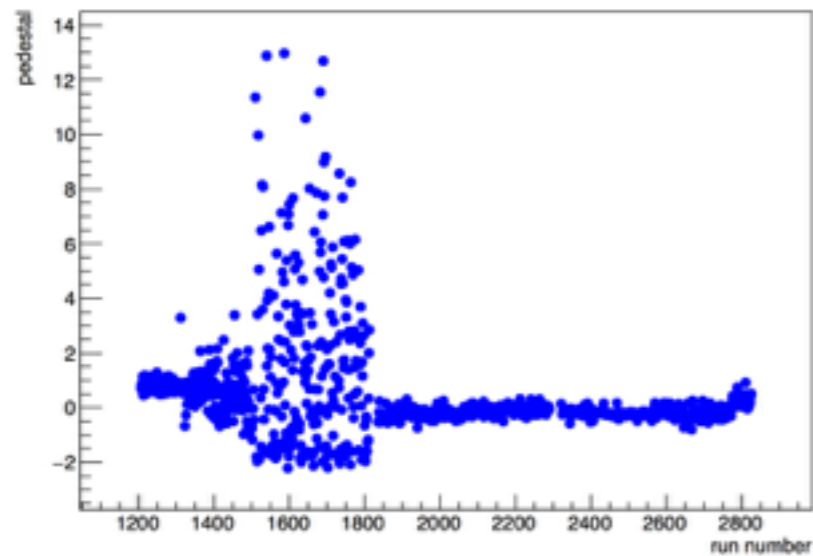
LHRS cer2



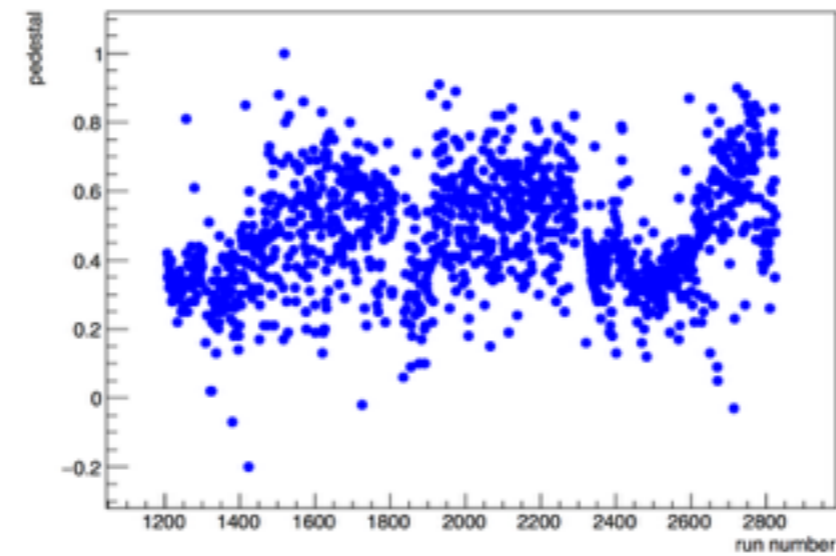
LHRS cer3



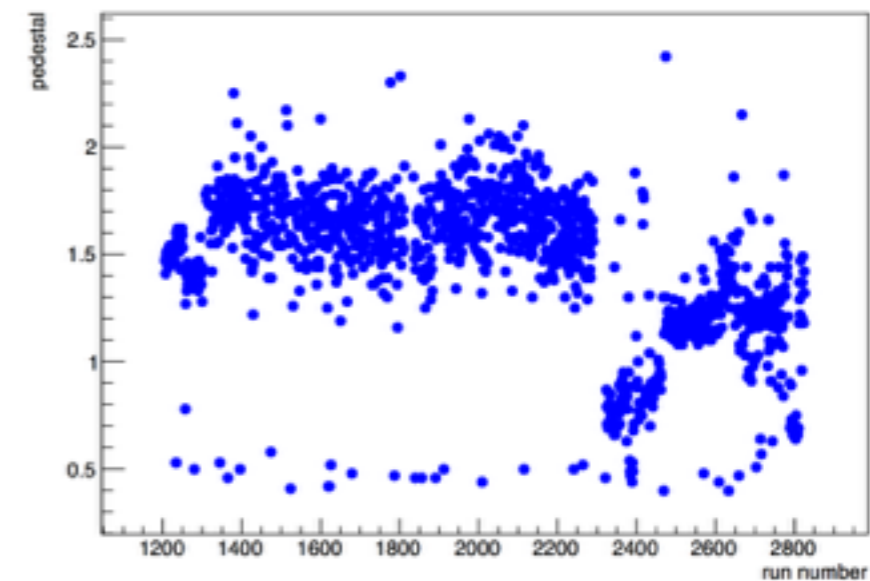
LHRS cer4



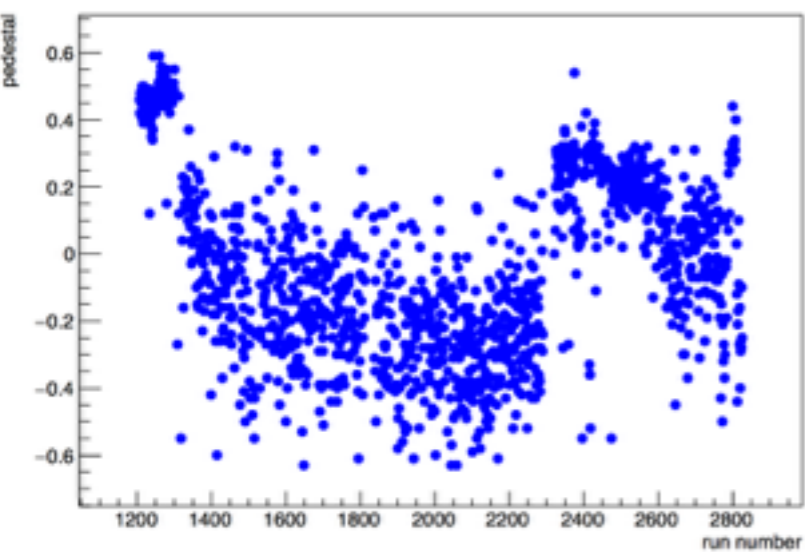
LHRS cer5



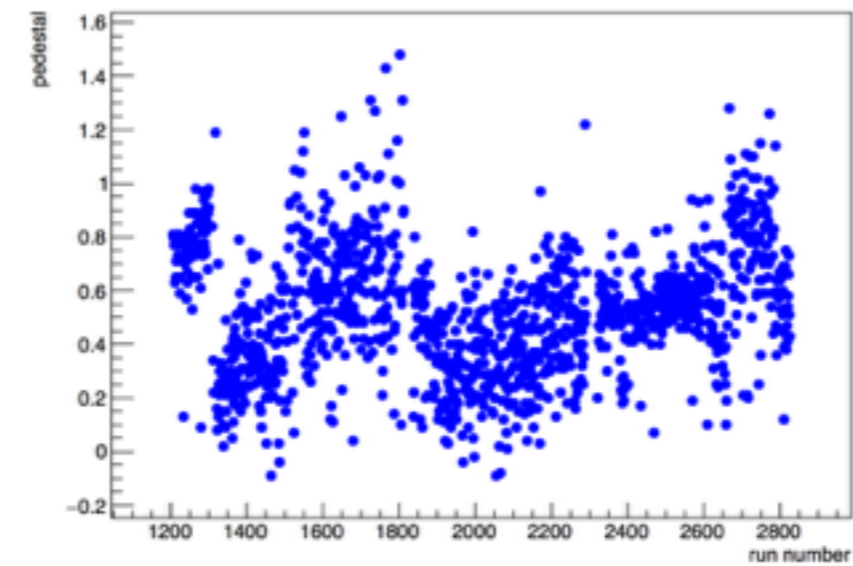
LHRS cer6



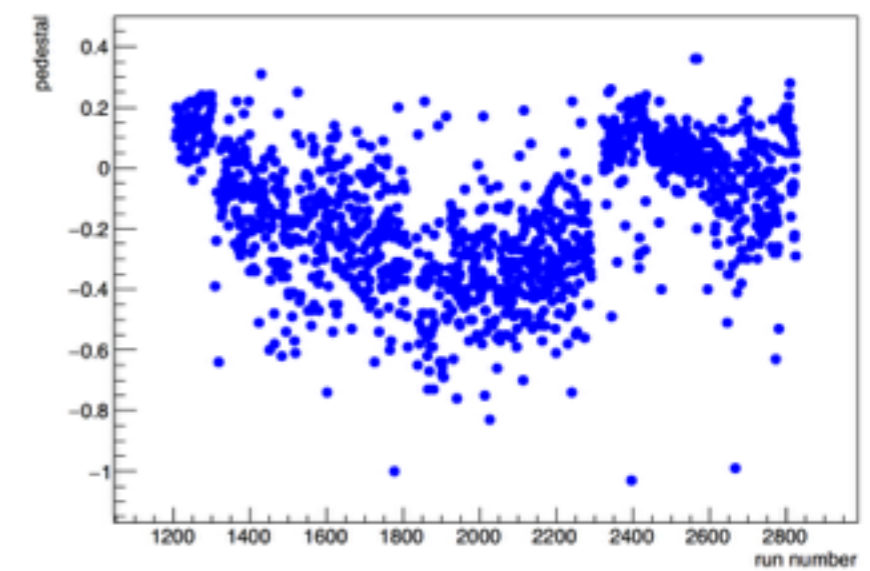
LHRS cer7



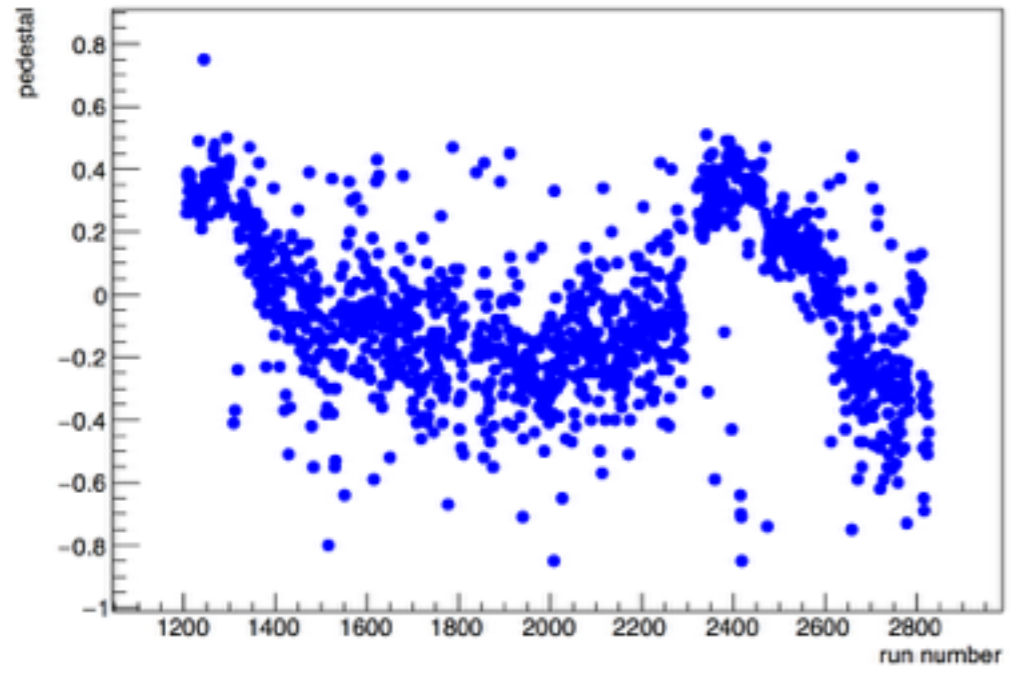
LHRS cer8



LHRS cer9

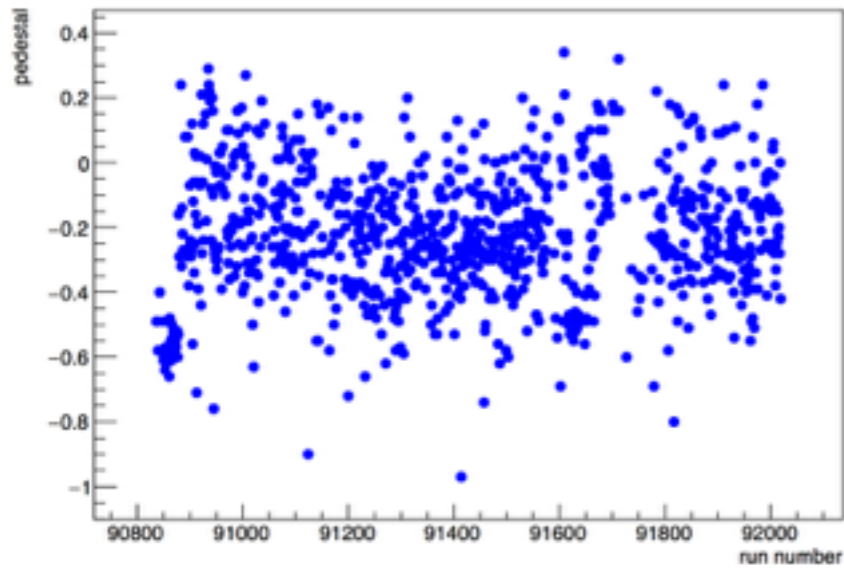


LHRS cer10

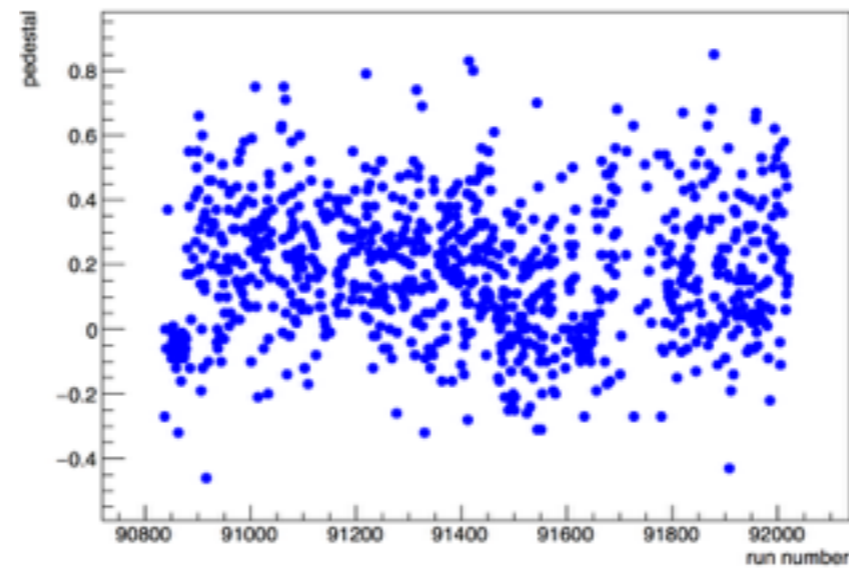


RHRS Pedestal

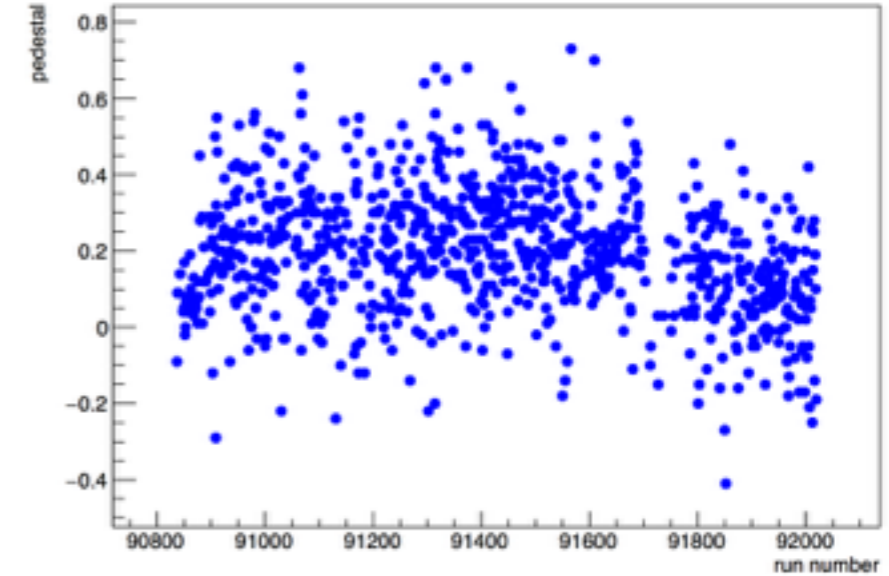
RHRS cer1



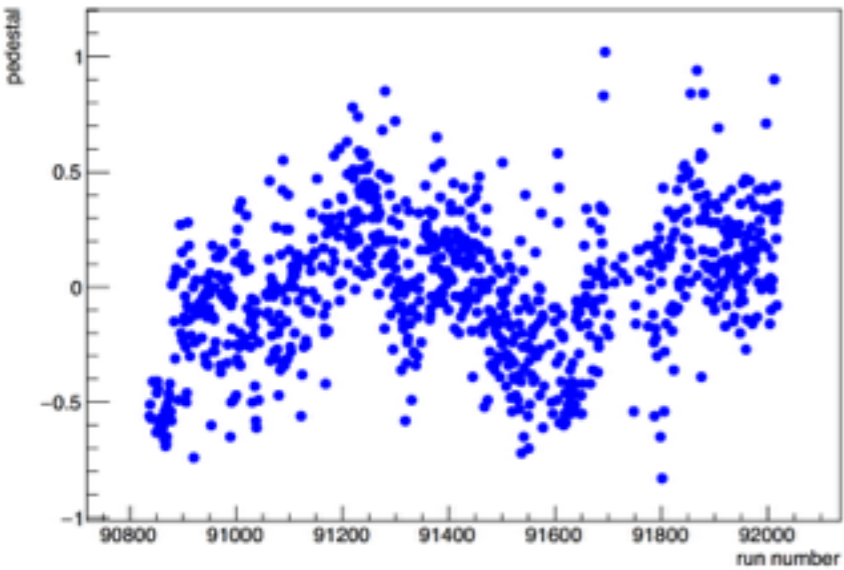
RHRS cer2



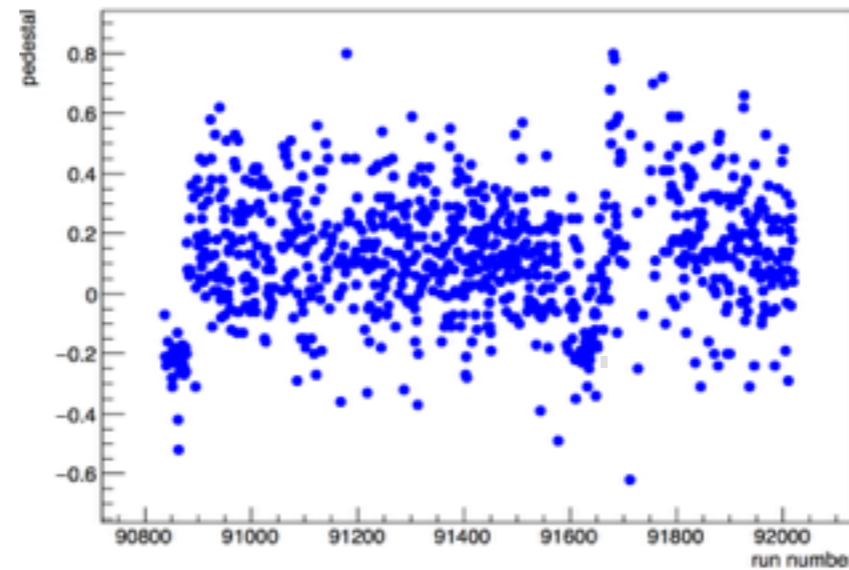
RHRS cer3



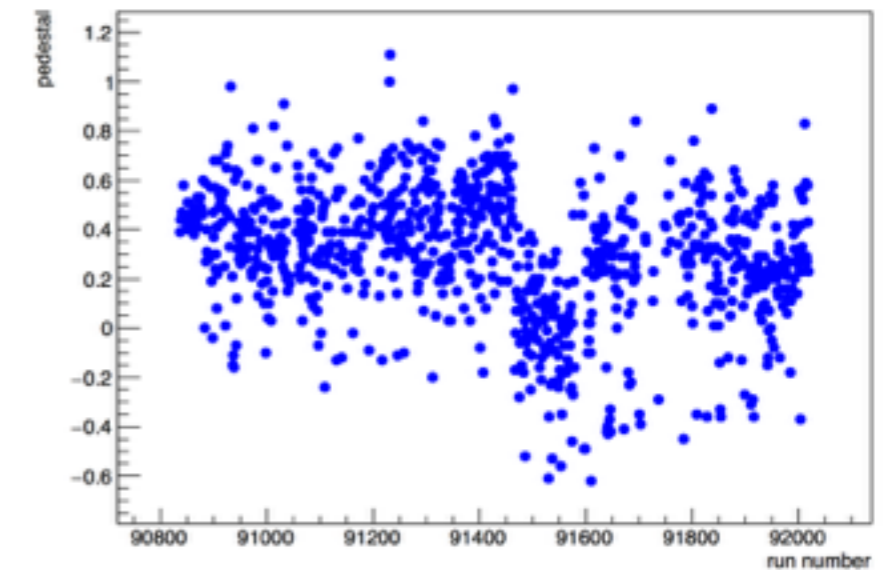
RHRS cer4



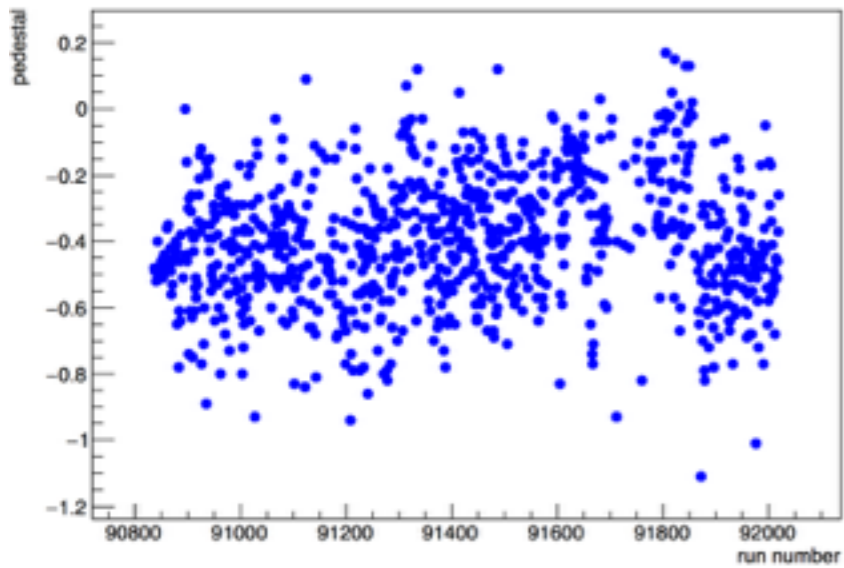
RHRS cer5



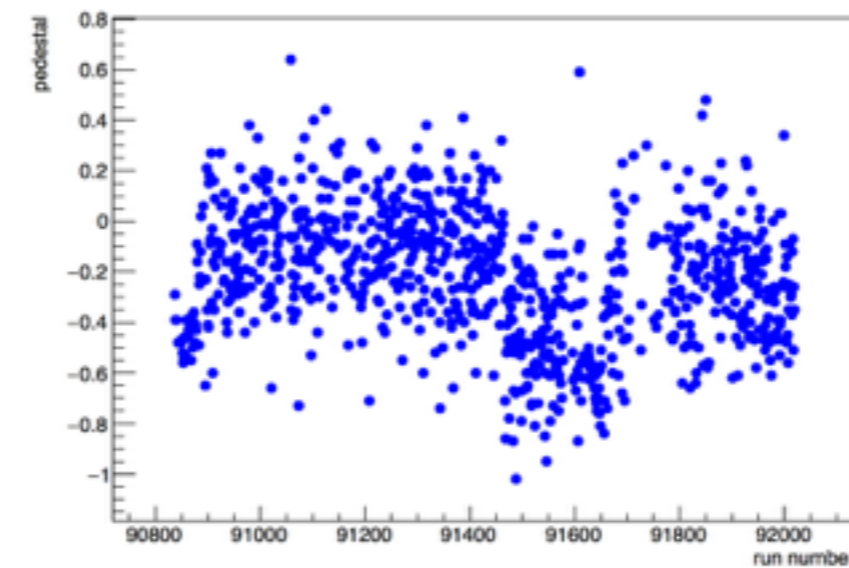
RHRS cer6



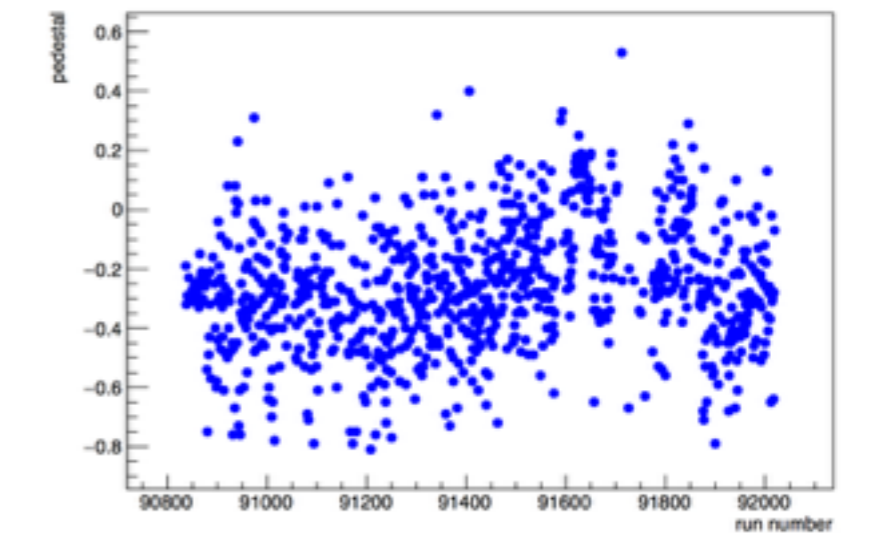
RHRS cer7



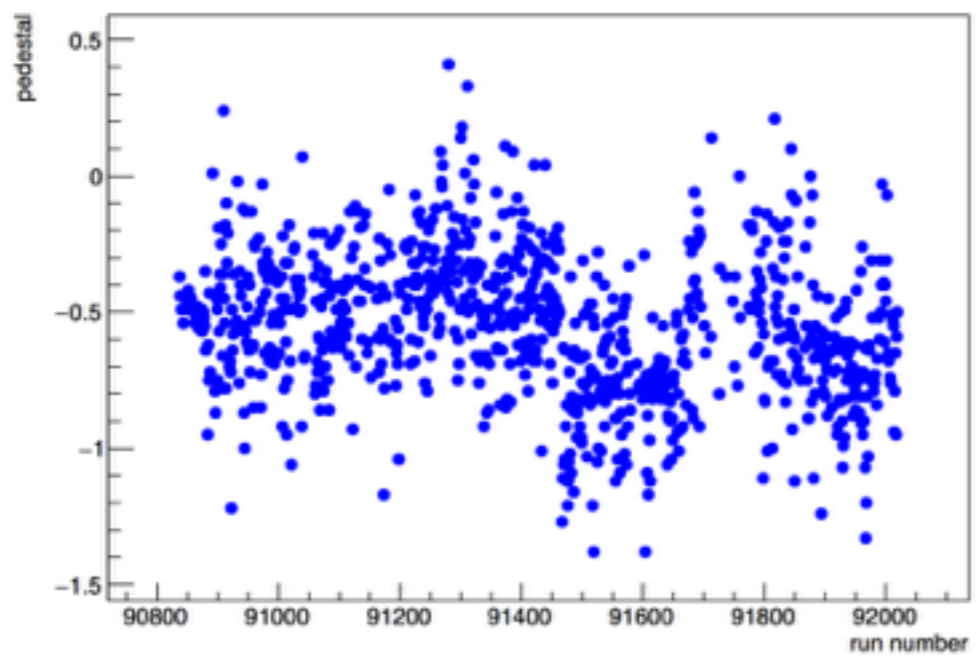
RHRS cer8



RHRS cer9

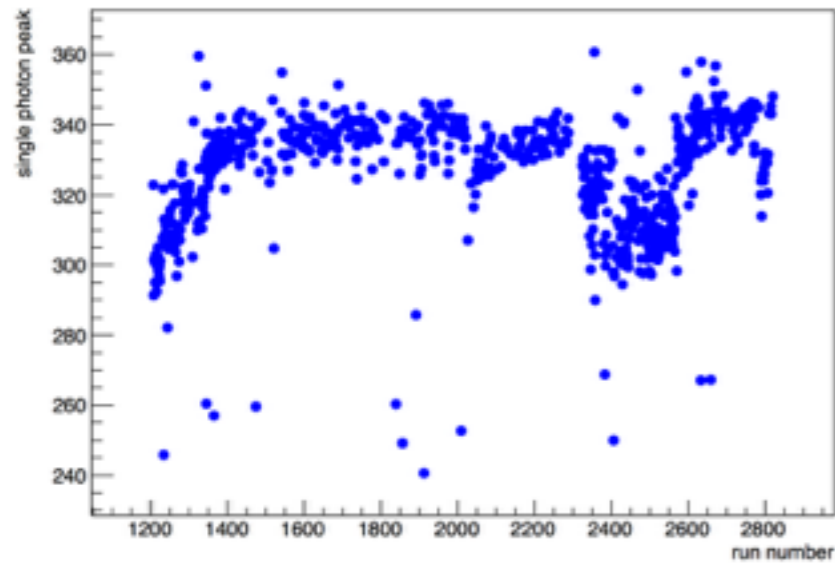


RHRS cer10

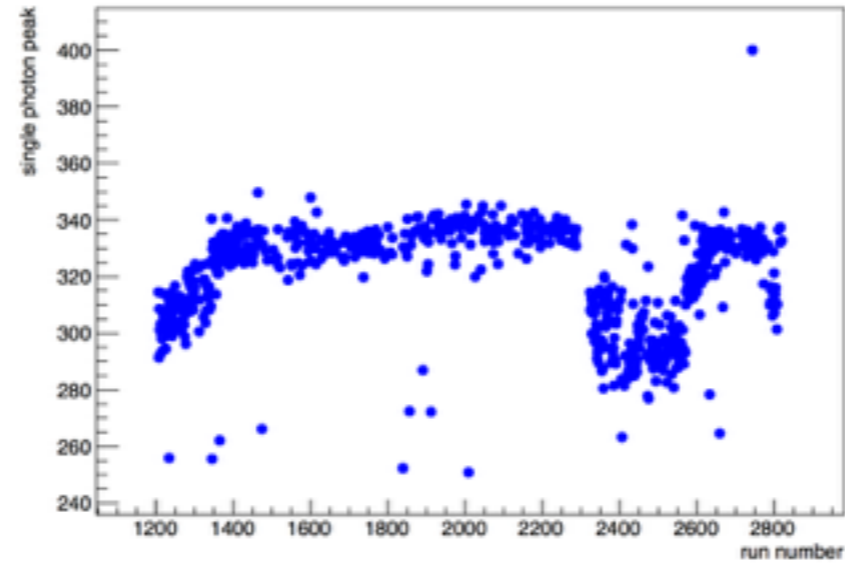


LHRS single photon peak

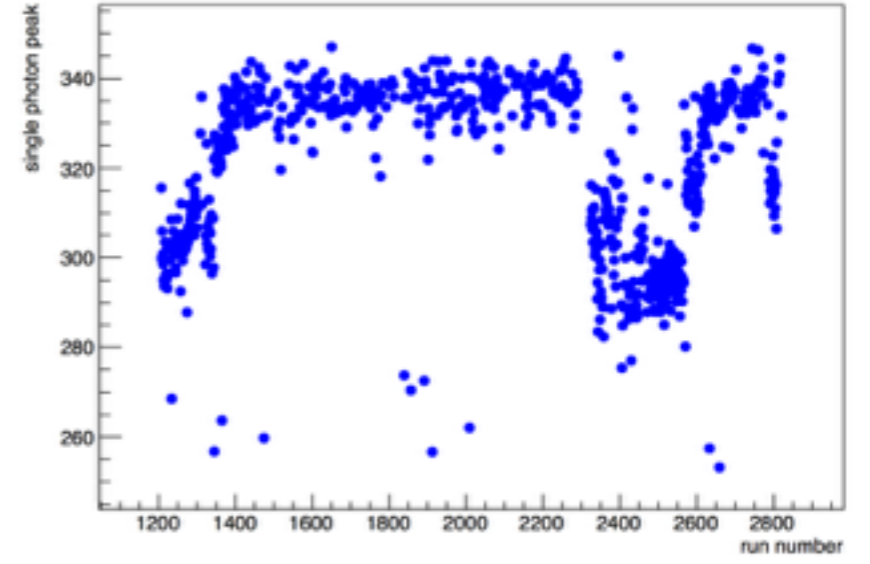
LHRS cer1



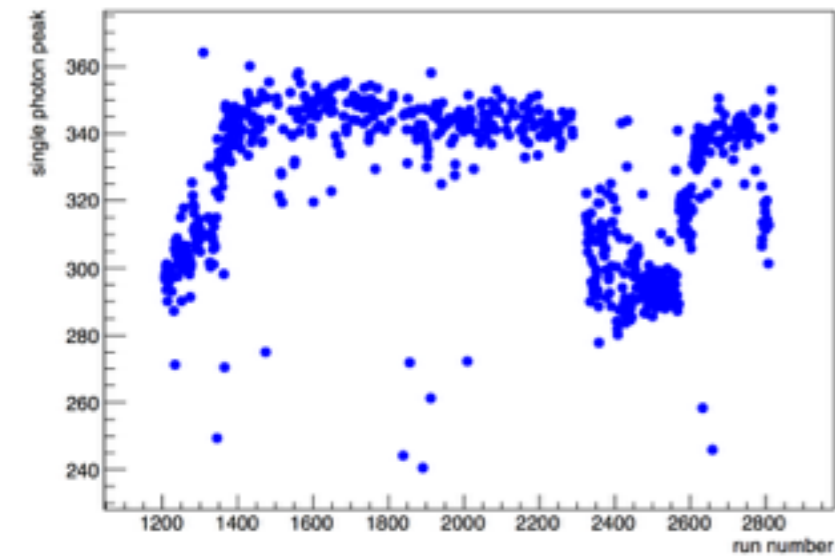
LHRS cer2



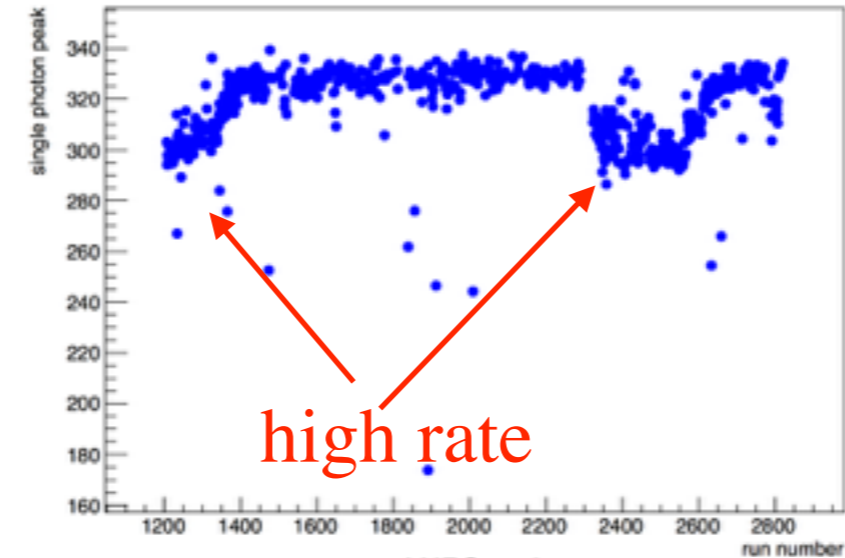
LHRS cer3



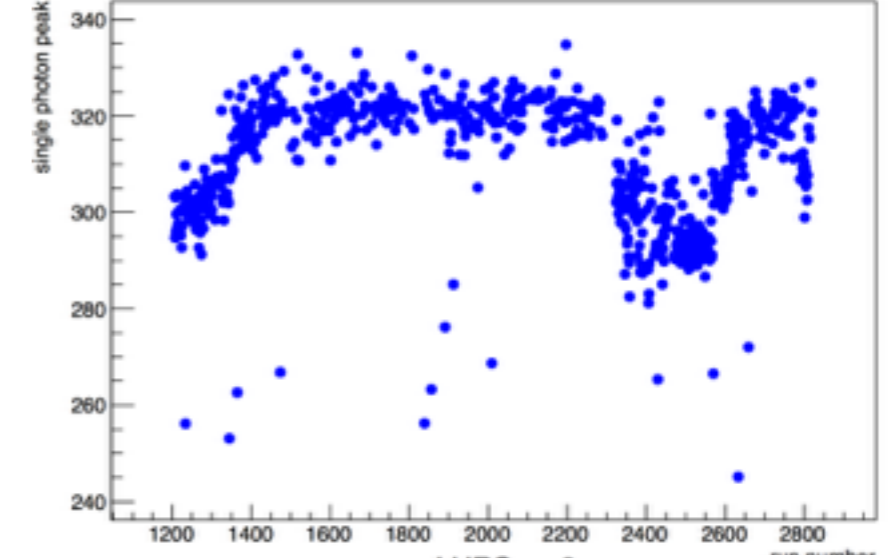
LHRS cer4



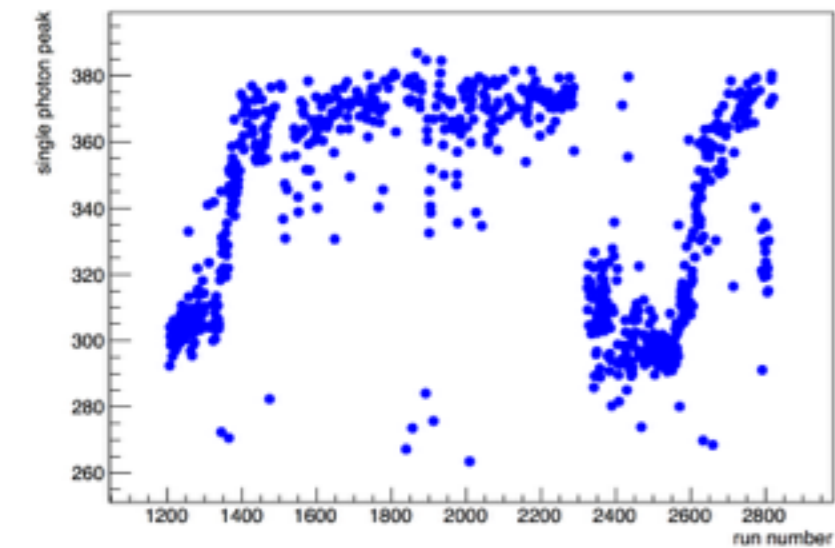
LHRS cer5



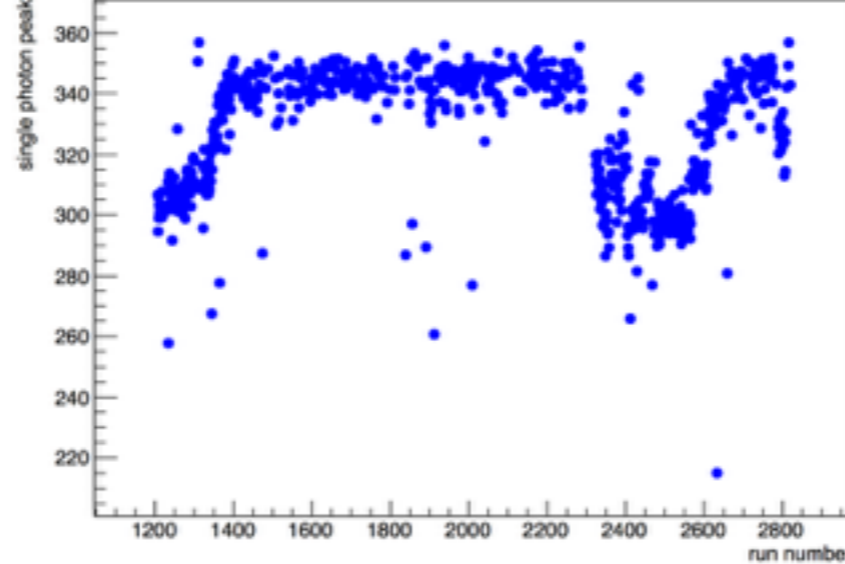
LHRS cer6



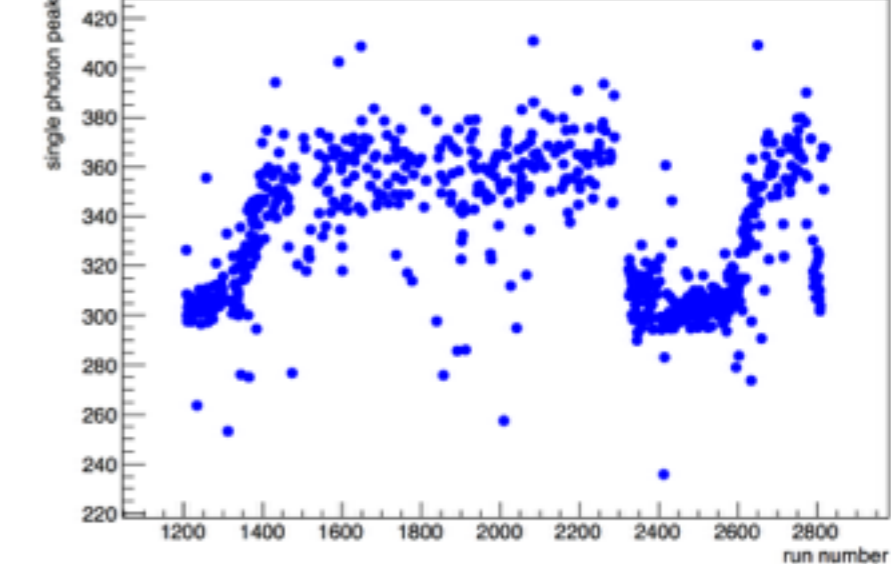
LHRS cer7



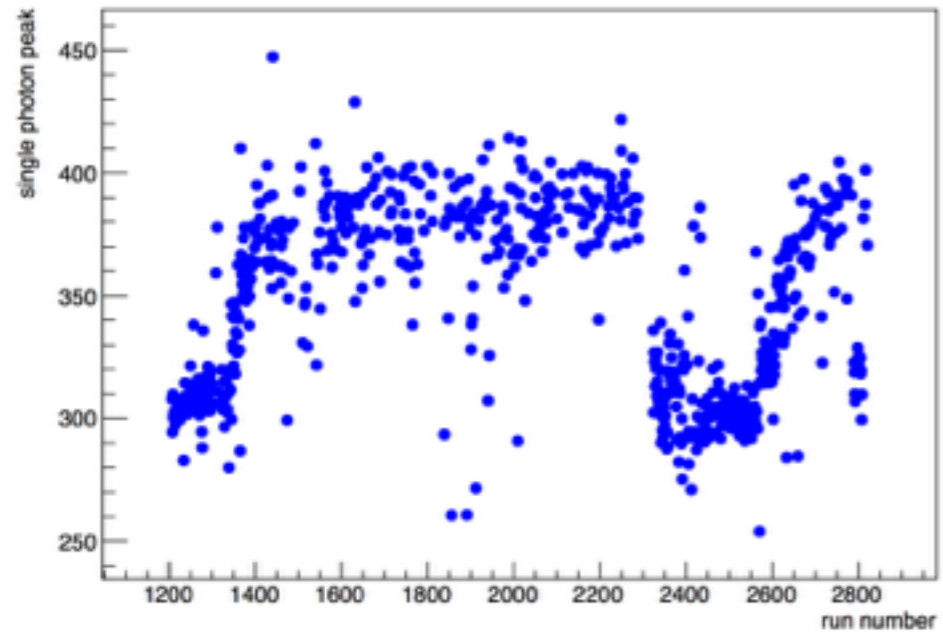
LHRS cer8



LHRS cer9

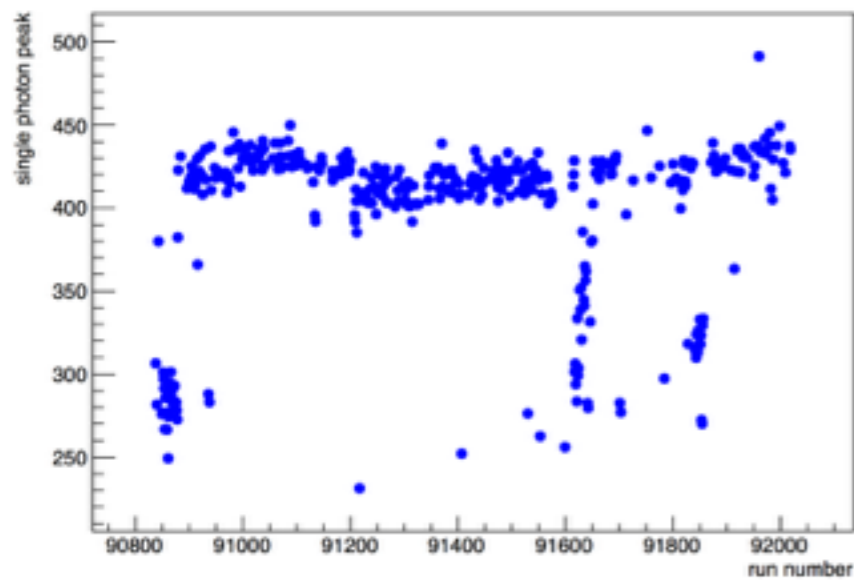


LHRS cer10

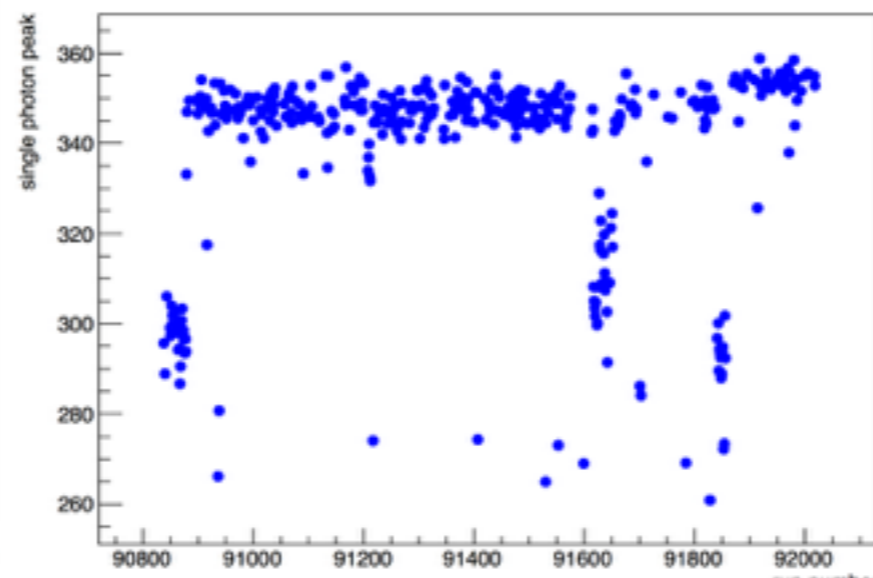


RHRS single photon peak

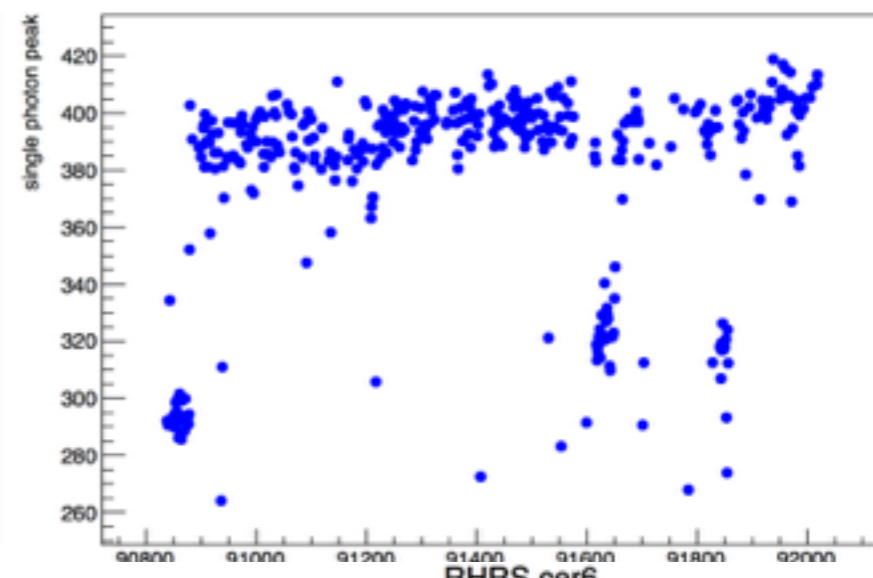
RHRS cer1



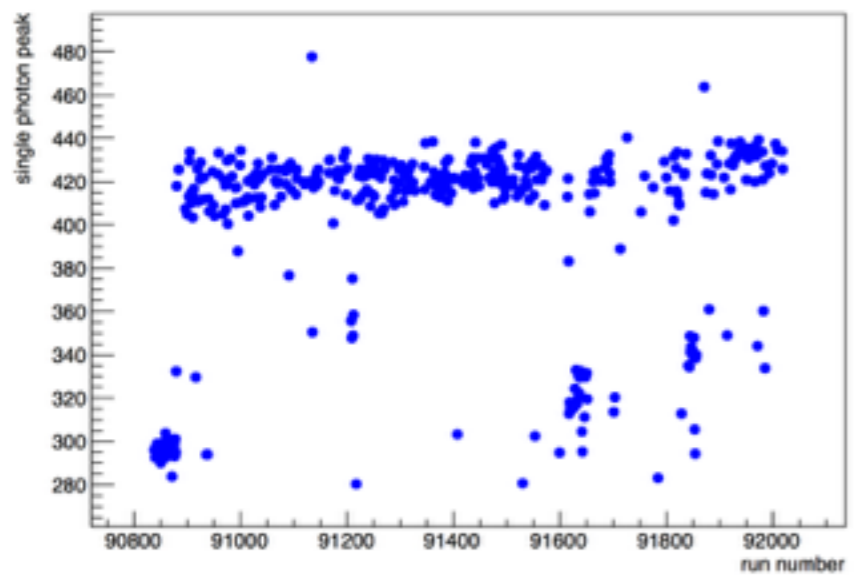
RHRS cer2



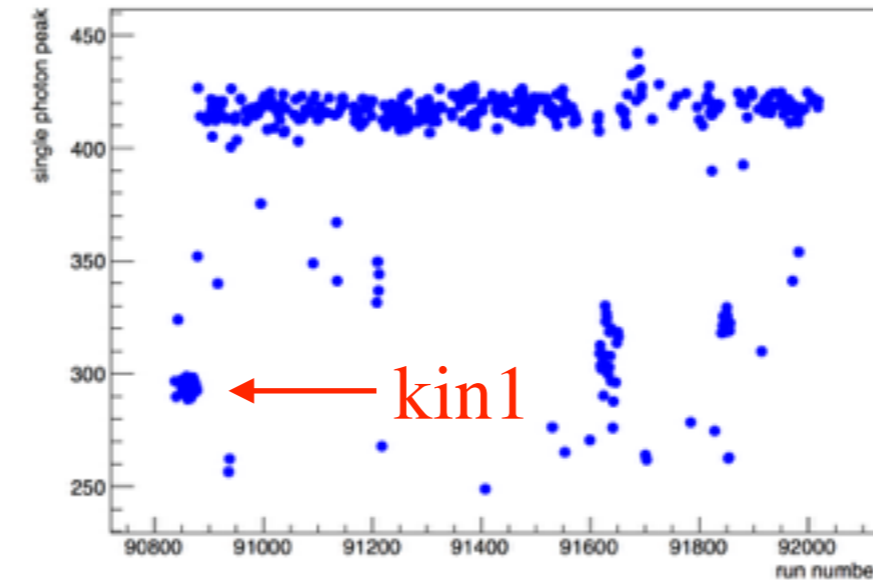
RHRS cer3



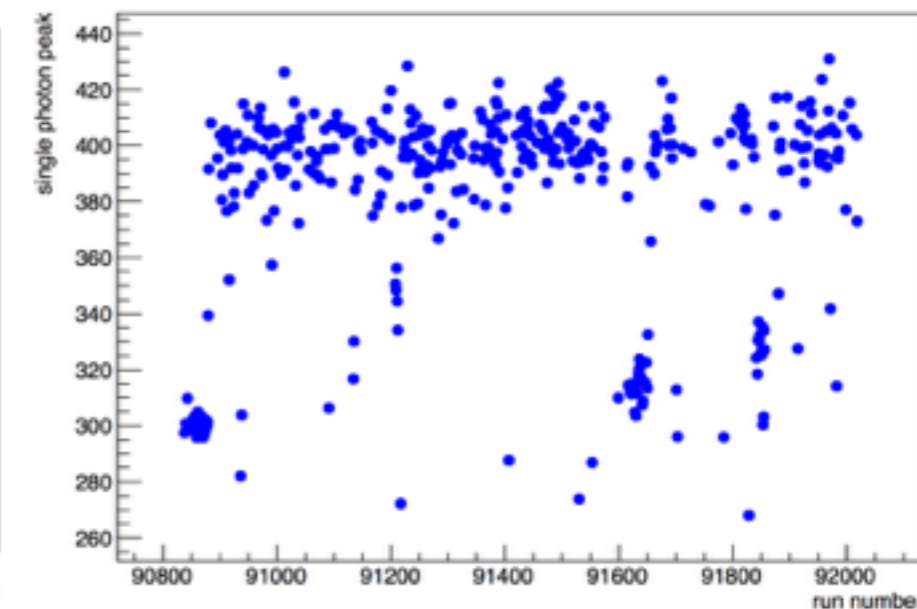
RHRS cer4



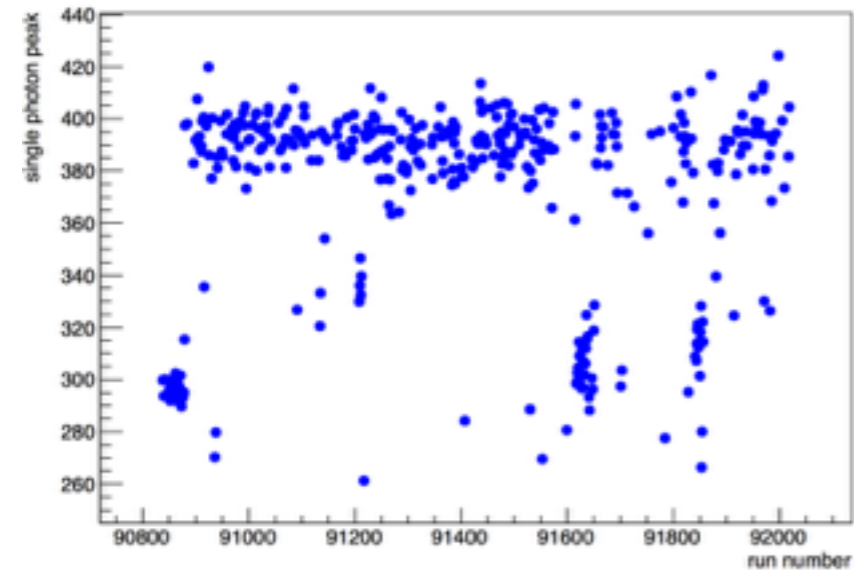
RHRS cer5



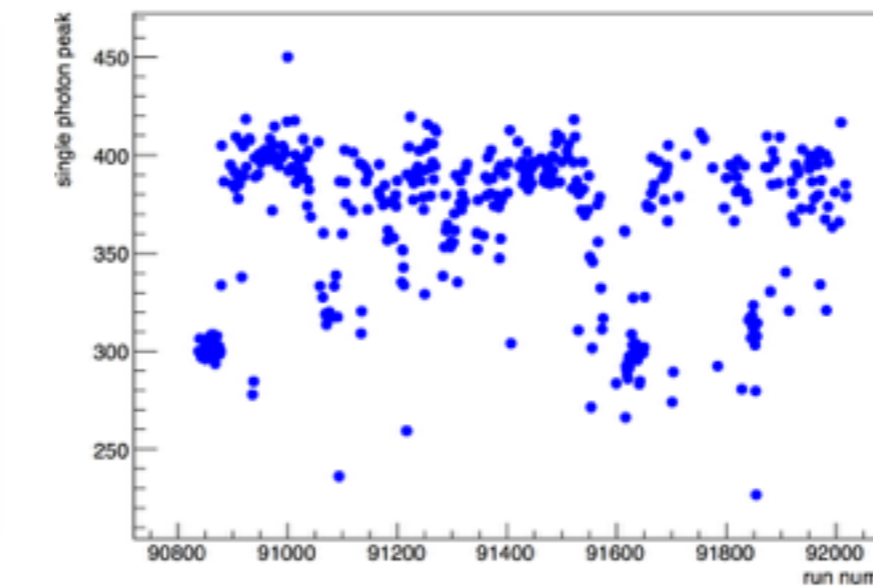
RHRS cer6



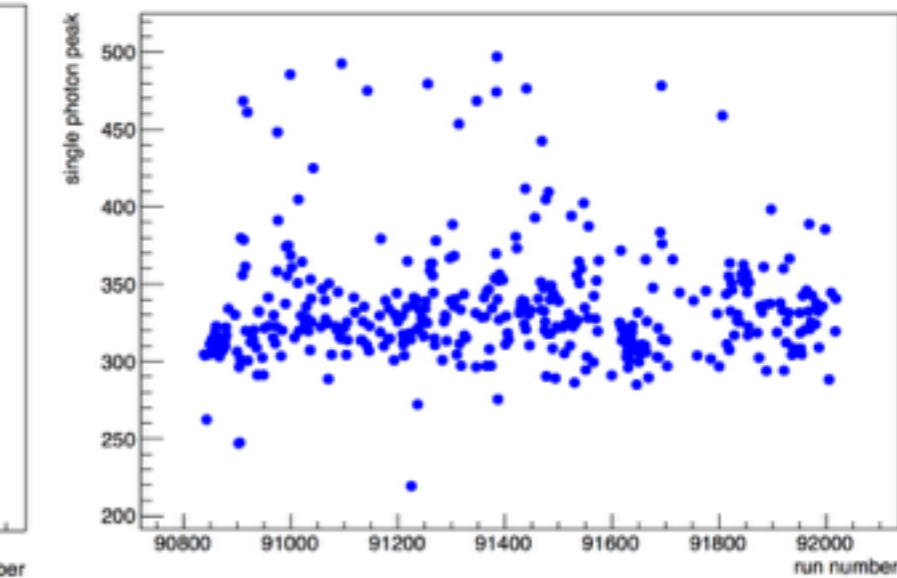
RHRS cer7



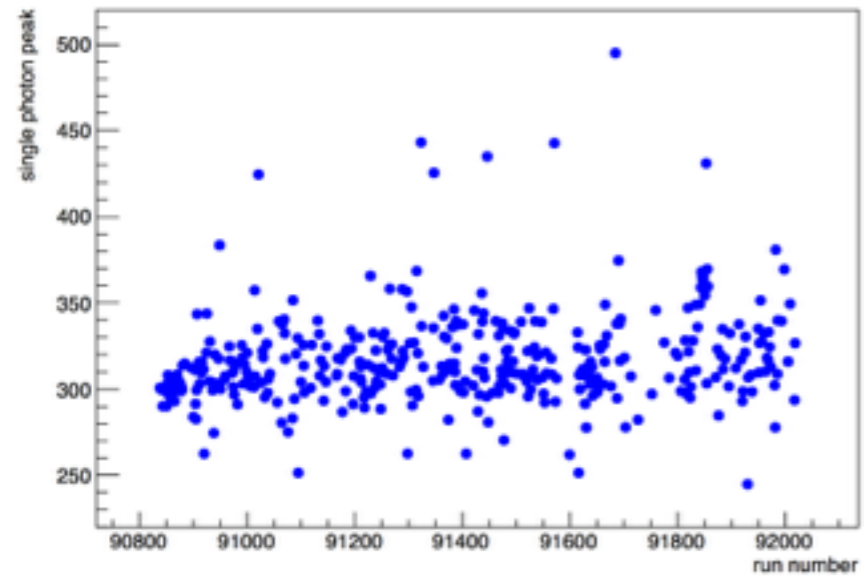
RHRS cer8



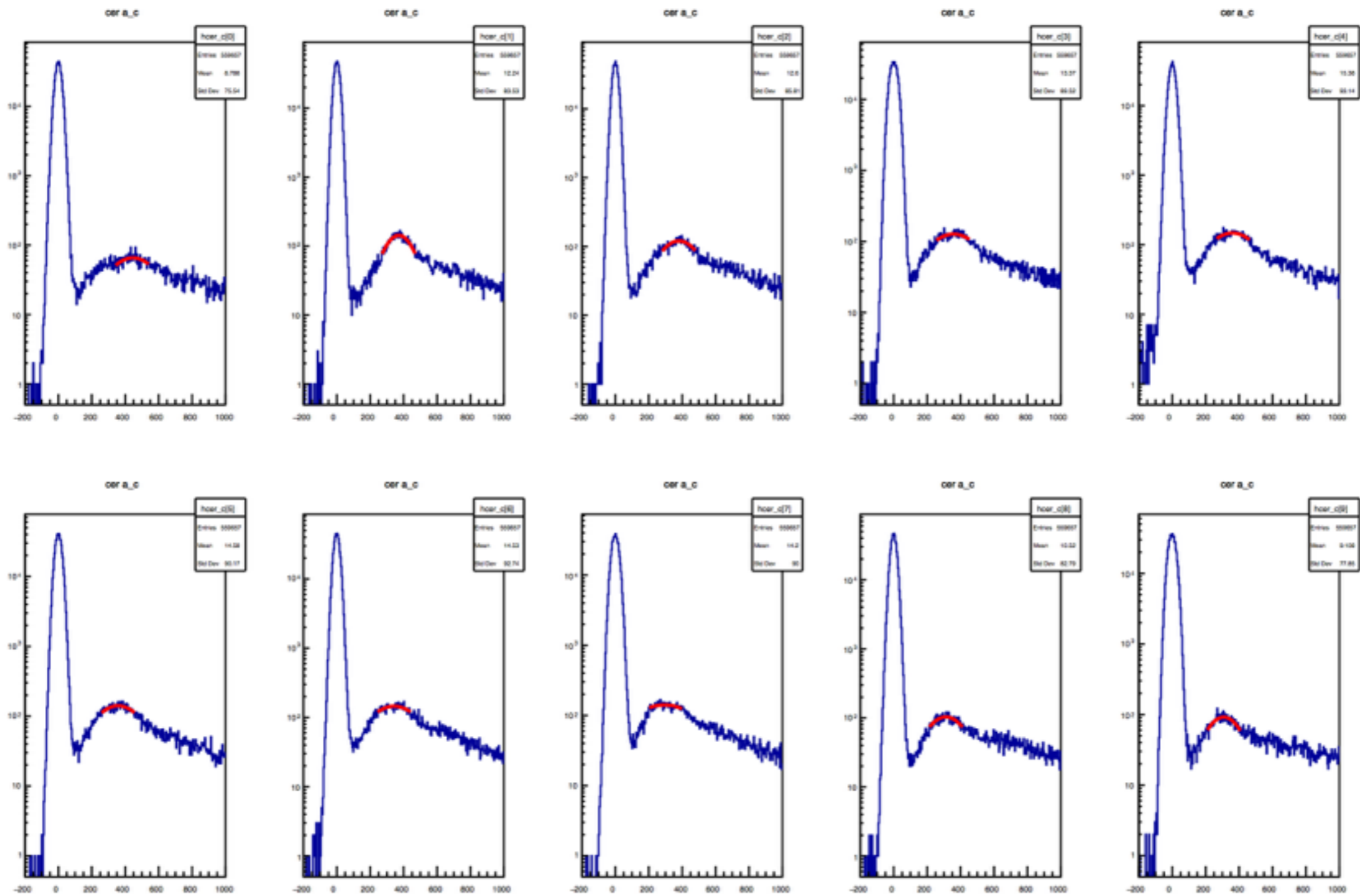
RHRS cer9



RHRS cer10



Fit a Cosmic run: 90635



single photon peak:

445.80 370.50 380.95 358.09 360.02 357.40 342.70 293.83 312.00 307.89

Conclusions:

1. Pedestals for all Cherenkov look reasonable;
2. Looks like the single photon peak shifts when rate decreases.