

SDEU Baseline

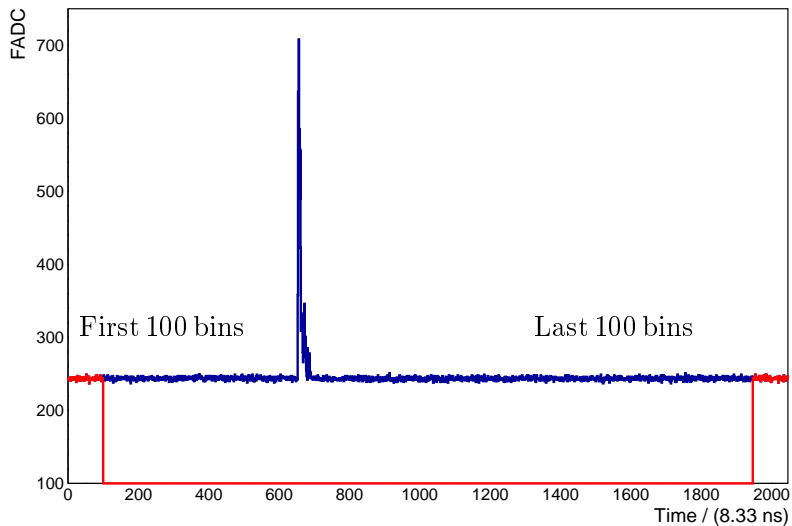
Mauricio Suárez Durán and Ioana C. Mariș

IIHE-ULB

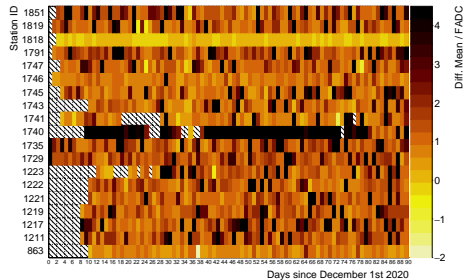
March 25, 2021



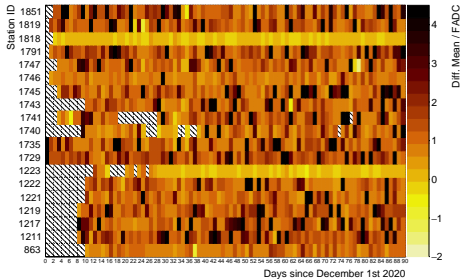
Distribution of the difference of the mean for the station 1818's PMT1 HG



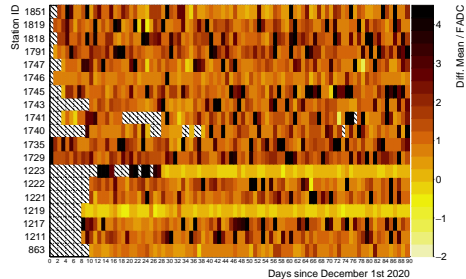
Difference of the Mean for First and Last bins of Baseline PMT1 HG



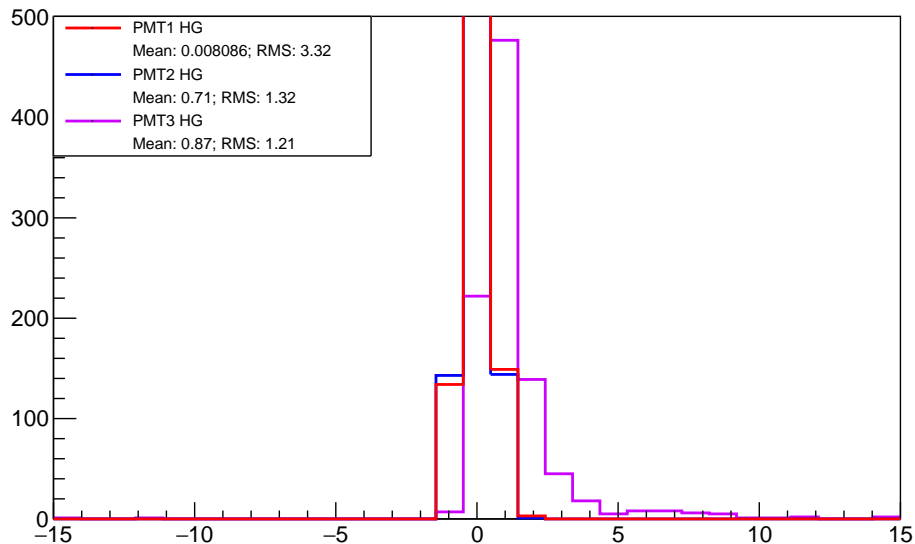
Difference of the Mean for First and Last 100 bins of Baseline PMT2 HG



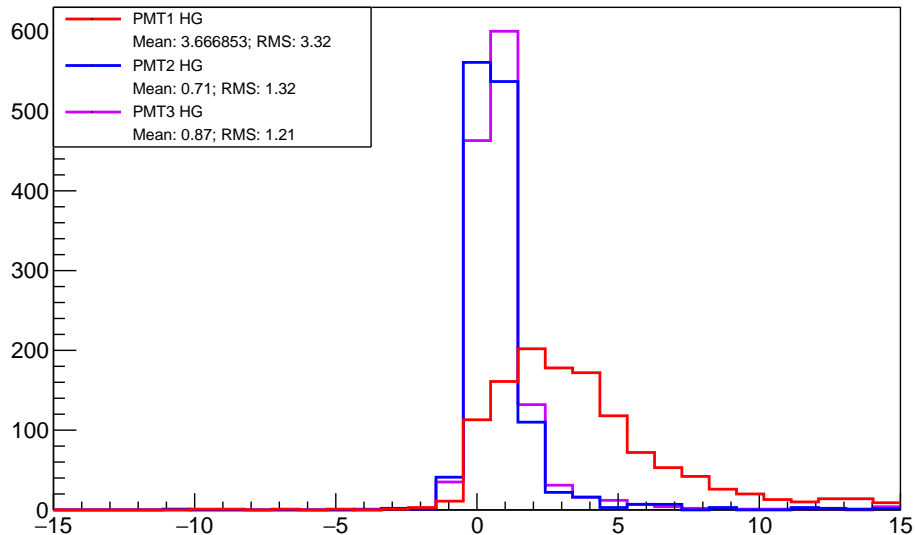
Difference of the Mean for First and Last 100 bins of Baseline PMT3 HG



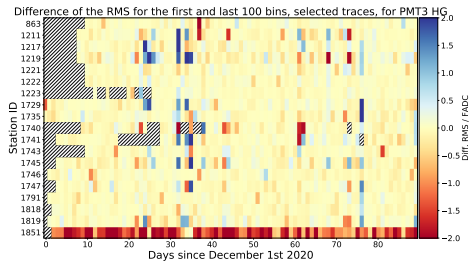
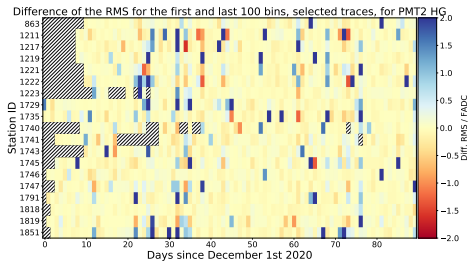
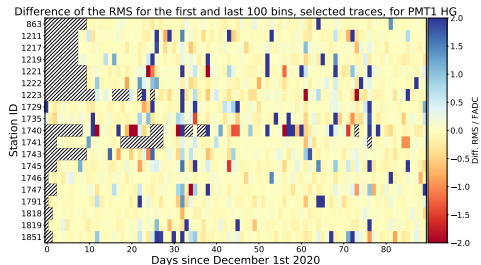
Distribution of the difference of the mean for the station 1818's PMT1 HG



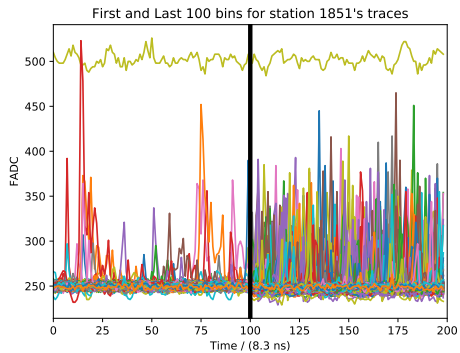
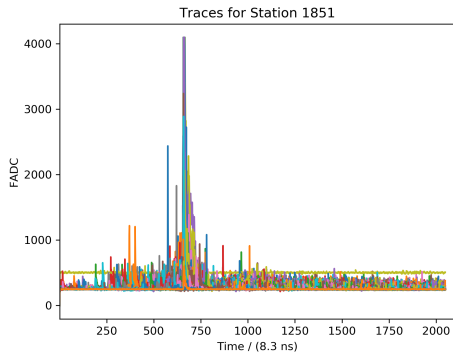
Distribution of the difference of the mean for the station 1740's PMT1 HG



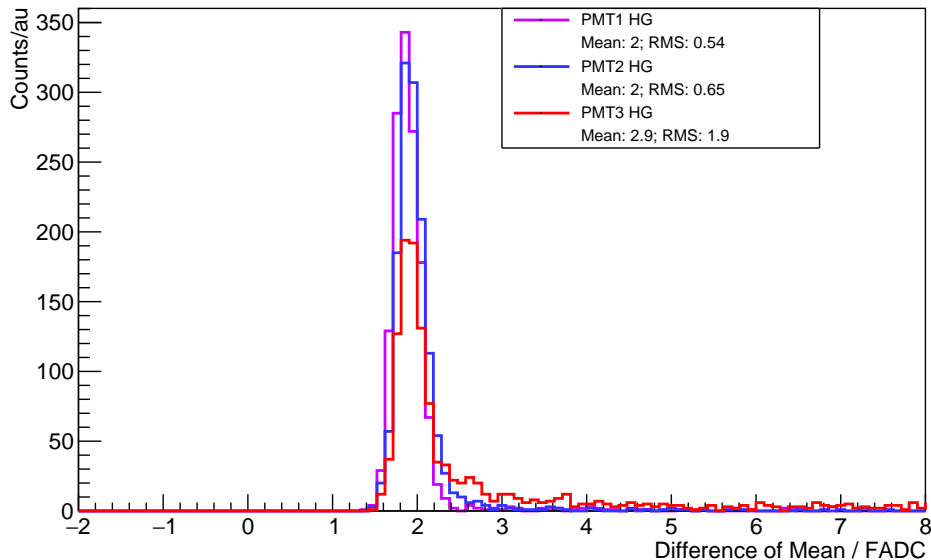
RMS difference for traces that agree with: $|\text{Mean}_f - \text{Mean}_l| < (2 * \text{RMS}_f)$



1851 station's PMT3 HG



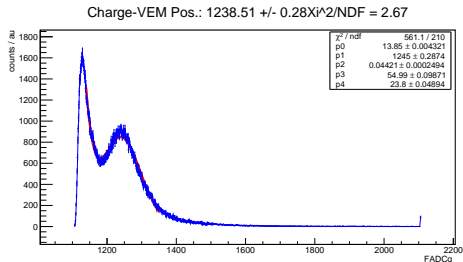
Distrubition of RMS for the last 100 bins of station 1851



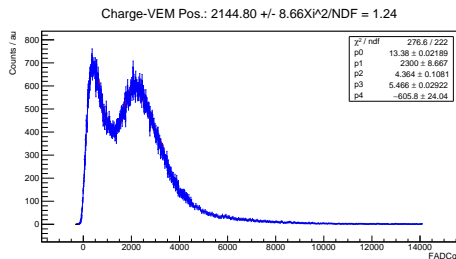
Fitting Histograms to:

$$e^{(a_0 - \frac{1}{x\tau})} + \frac{1}{x} e^{-\left(\frac{(\ln x - \ln \mu)^2}{2\sigma^2}\right)}$$

Charge histogram for Station 1223

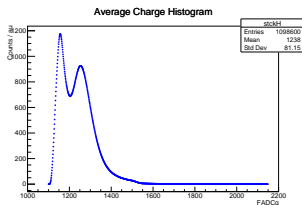


UB-PMT1

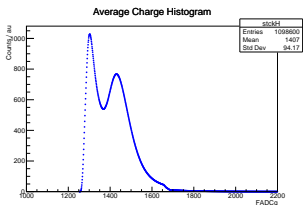


UUB-PMT1

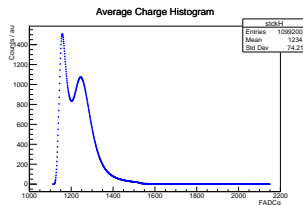
Averages histograms for Station 1223:



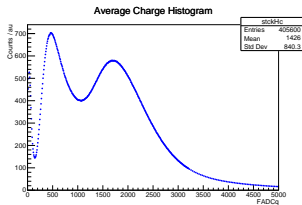
UB-LPMT1



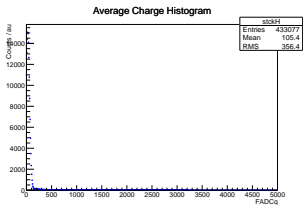
UB-LPMT2



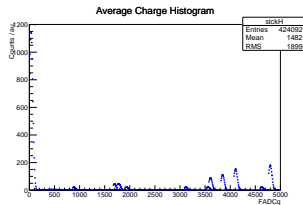
UB-LPMT3



UUB-LPMT1

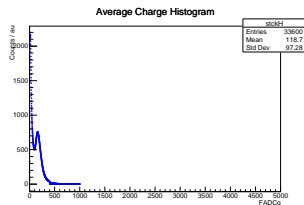


UUB-LPMT2

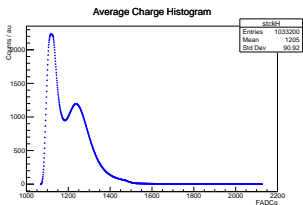


UUB-LPMT3

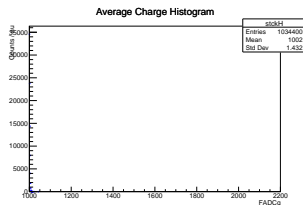
Averages histograms for Station 1851:



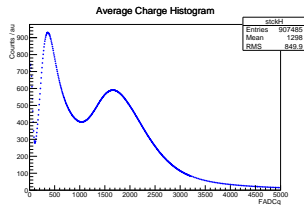
UB-LPMT1



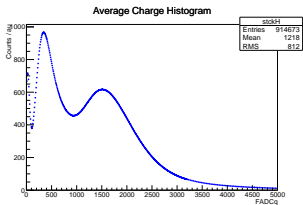
UB-LPMT2



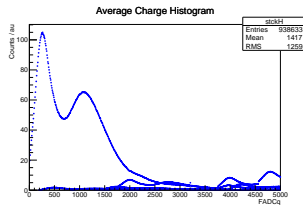
UB-LPMT3



UUB-LPMT1

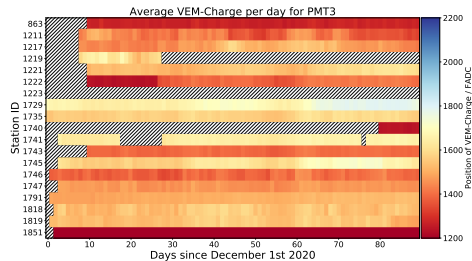
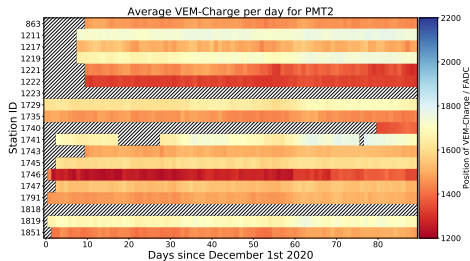
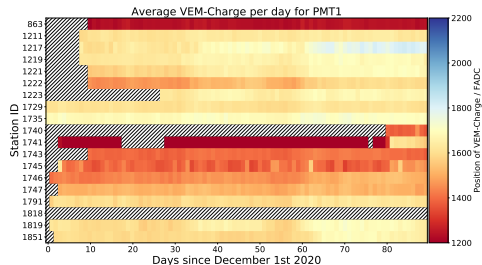


UUB-LPMT2

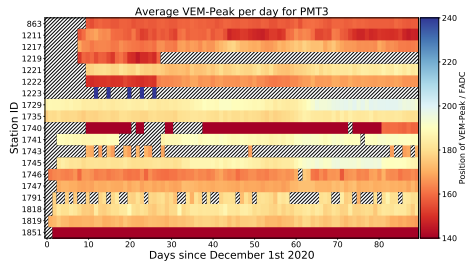
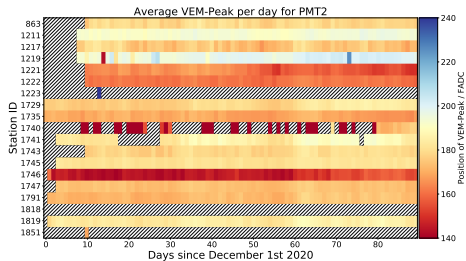
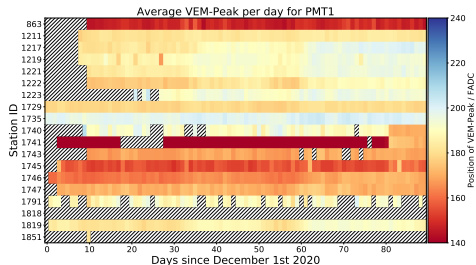


UUB-LPMT3

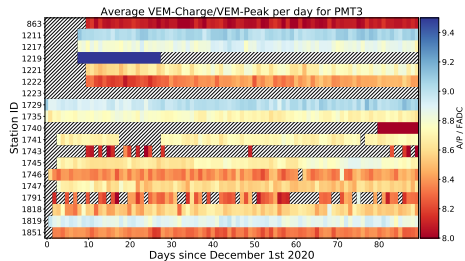
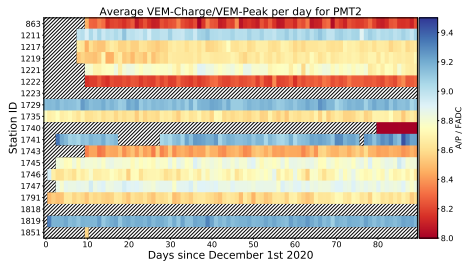
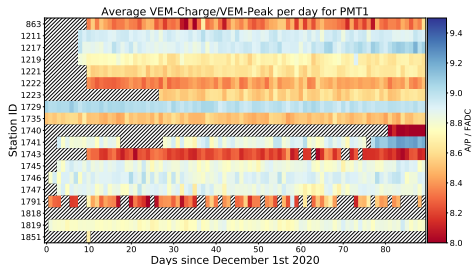
Position of VEM-Charge, average per day (traces agree with: $|M_f - M_l| < (2 * RMS_f)$)



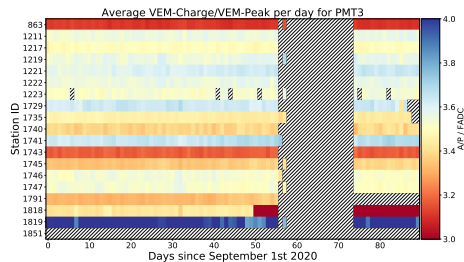
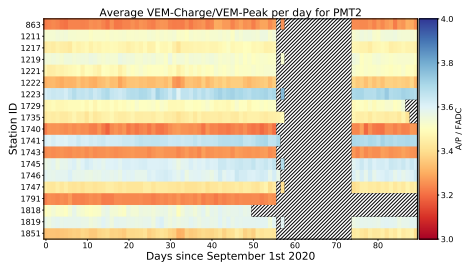
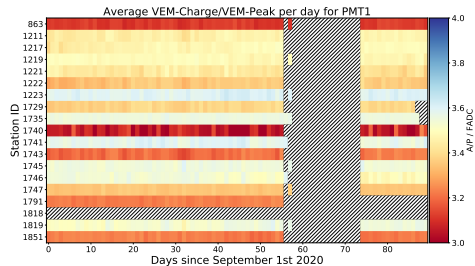
Position of VEM-Peak, average per day (traces agree with: $|M_f - M_l| < (2 * RMS_f)$)



A/P average per day, traces that agree with: $|\text{Mean}_f - \text{Mean}_l| < (2 * \text{RMS}_f)$



UB: A/P average per day, traces that agree with: $|\text{Mean}_f - \text{Mean}_l| < (2 * \text{RMS}_f)$



Thanks