

SDEU Baseline

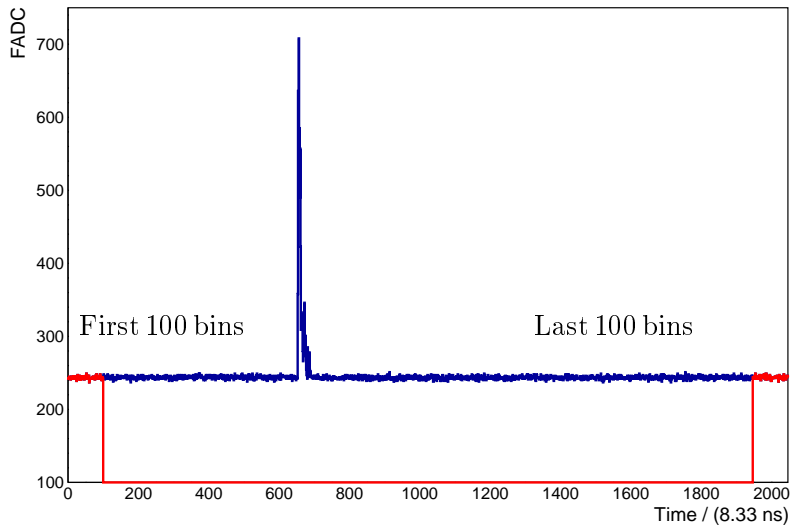
Mauricio Suárez Durán and Ioana C. Mariș

IIHE-ULB

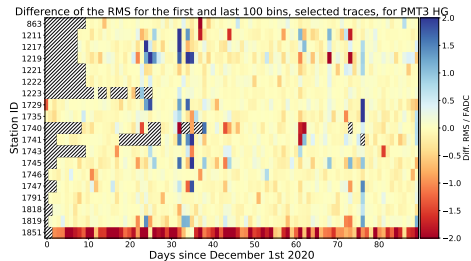
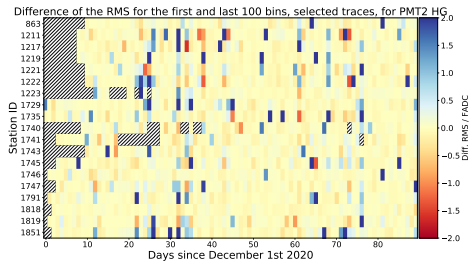
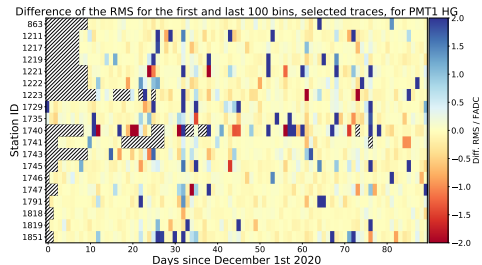
March 25, 2021



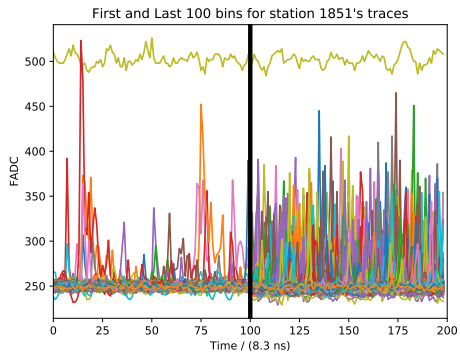
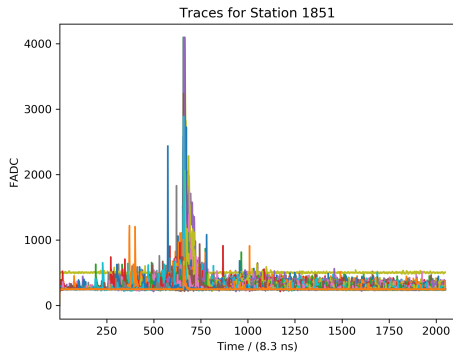
Trace selection method



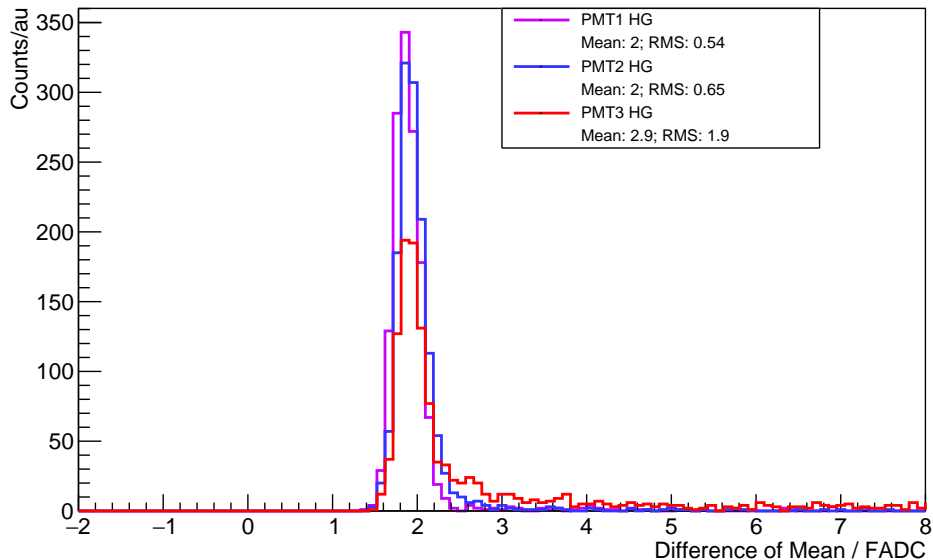
RMS difference for traces that agree with: $|\text{Mean}_f - \text{Mean}_l| < (2 * \text{RMS}_f)$



1851 station's PMT3 HG



Distrubition of RMS for the last 100 bins of station 1851

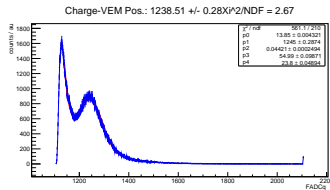


Area/Peak inspection

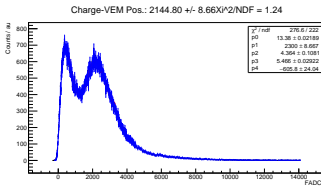
Fitting Histograms using:

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

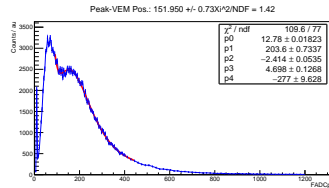
Charge histogram for Station 1223



Charge: UB-PMT1

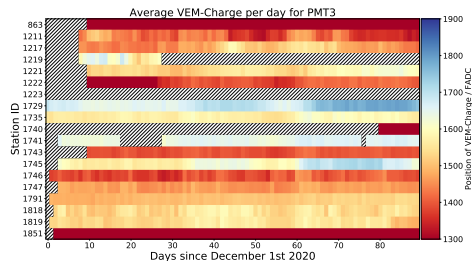
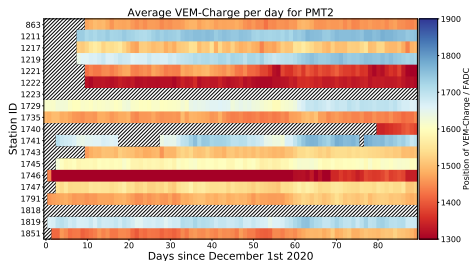
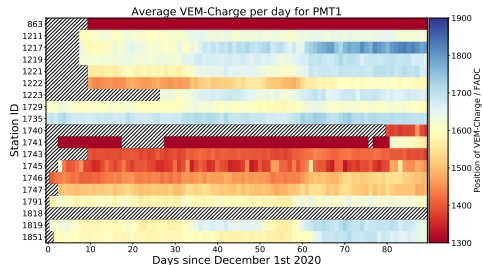


Charge: UUB-PMT1

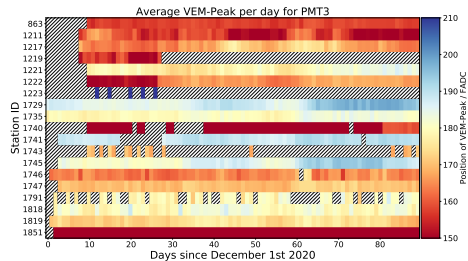
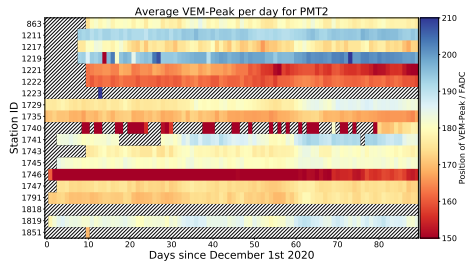
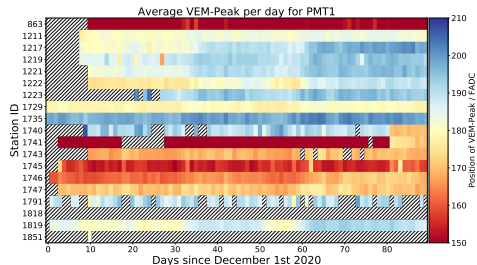


Peak: UUB-PMT1

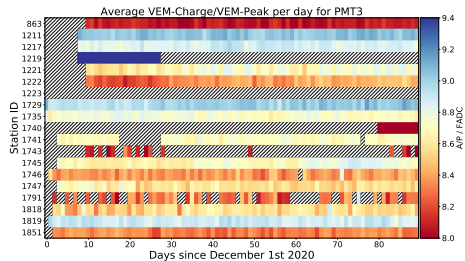
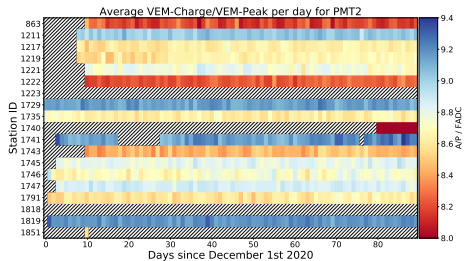
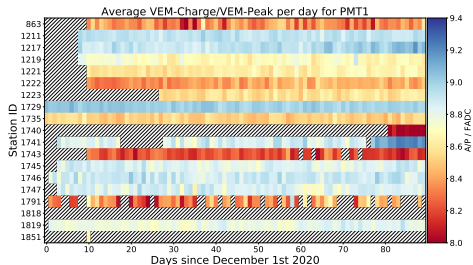
Position of VEM-Charge, average per day (traces agree with: $|M_f - M_l| < (2 * RMS_f)$)



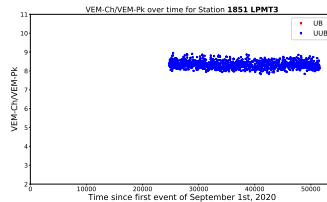
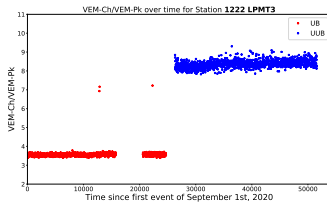
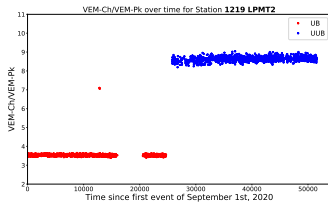
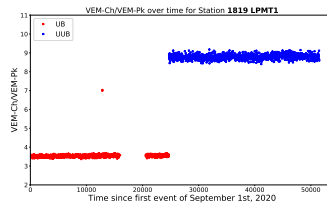
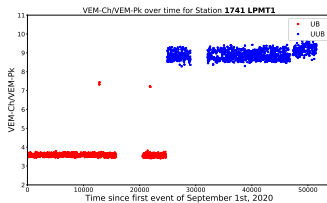
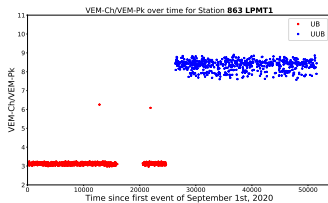
Position of VEM-Peak, average per day (traces agree with: $|M_f - M_l| < (2 * RMS_f)$)



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



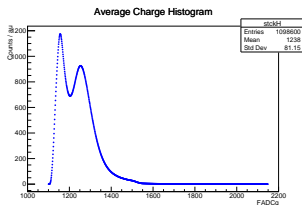
A/P along UB and UUB



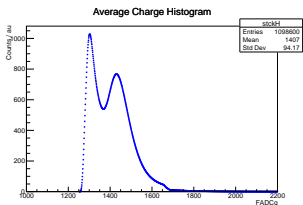
Thanks

Backup

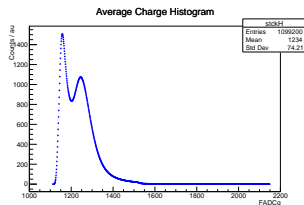
Averages histograms for Station 1223:



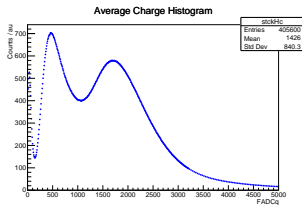
UB-LPMT1



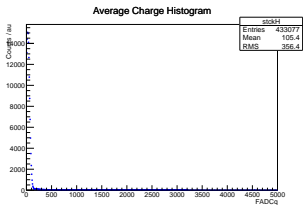
UB-LPMT2



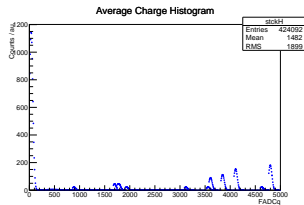
UB-LPMT3



UUB-LPMT1

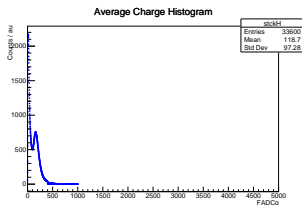


UUB-LPMT2

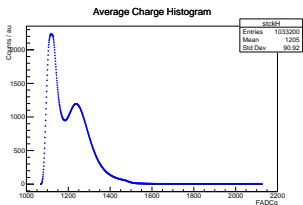


UUB-LPMT3

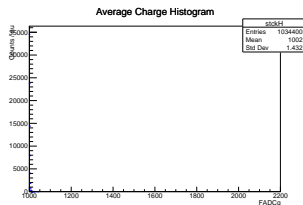
Averages histograms for Station 1851:



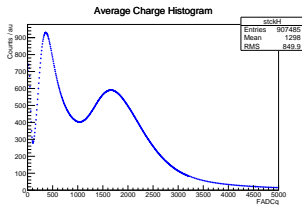
UB-LPMT1



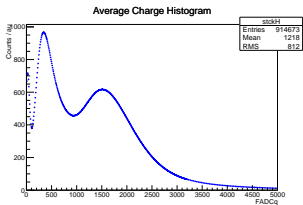
UB-LPMT2



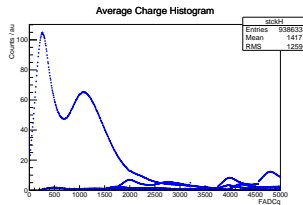
UB-LPMT3



UUB-LPMT1



UUB-LPMT2



UUB-LPMT3

UB:

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

