

SDEU Baseline

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IIHE-ULB

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- ▶ Baseline stability for pre-production batch of UUBs together with SPMT and SSD in the field.
- ▶ Data from CDAS: from 01/12/2020 to 21/01/2021

0871 1224

0868 0804 1225

0859 0864 1220 1218

+0863 0866 +1222 +1219 +1211

+1740 +1743 +1221 +1223 +1217

=1747 =1741 =1745 =1818 =1851

=1729 =1735 =1746 =1819 =1791

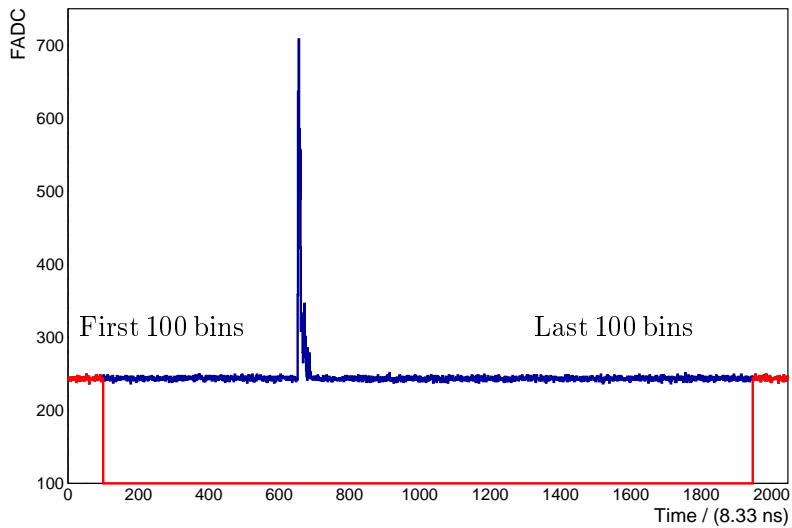
The stations installed are:

Dec. 07-11: "+"

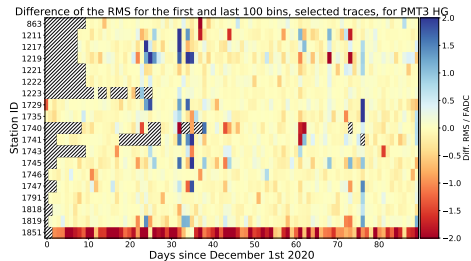
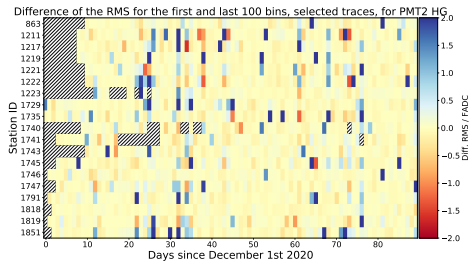
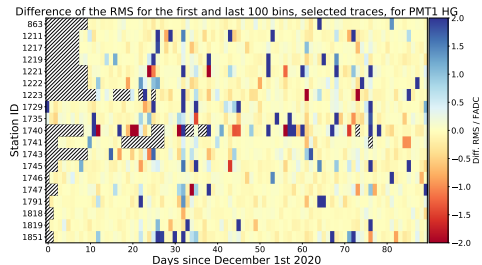
until Dec. 04: "="

The others which are not marked, still need to installed.

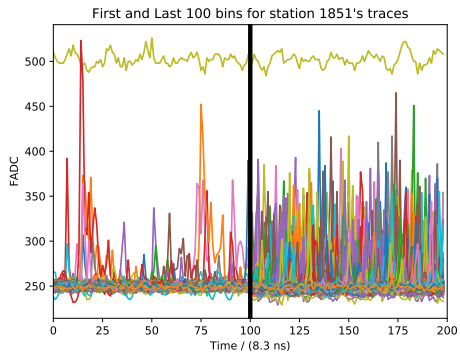
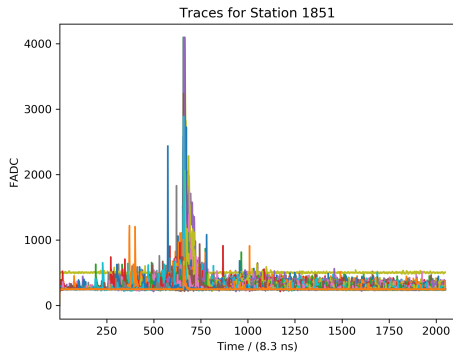
Trace selection method



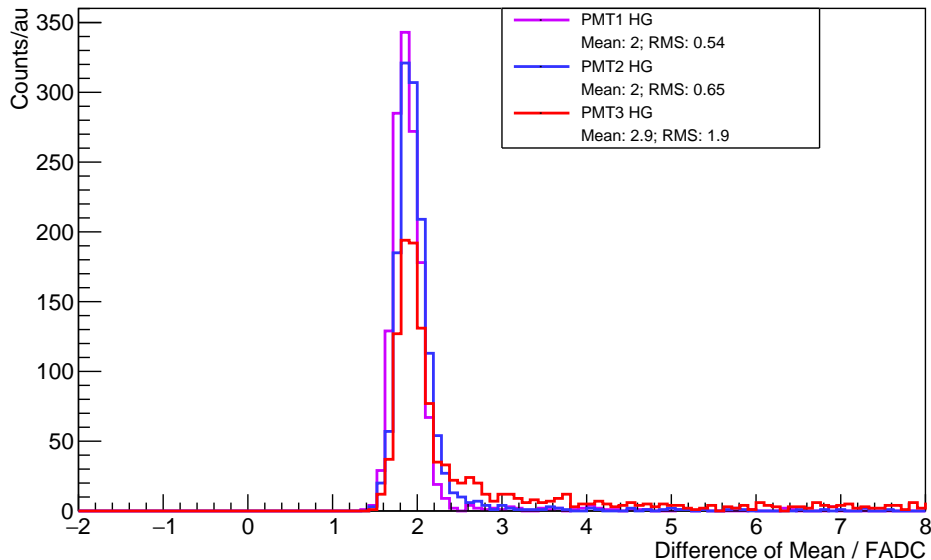
RMS difference for traces that agree with: $|\text{Mean}_f - \text{Mean}_l| < (2 * \text{RMS}_f)$



1851 station's PMT3 HG



Distrubition of RMS for the last 100 bins of station 1851

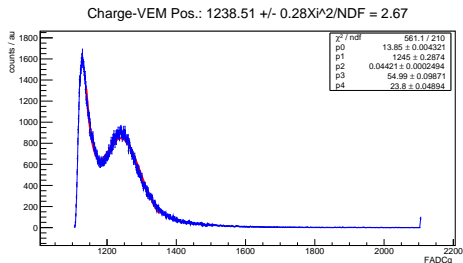


Area/Peak inspection

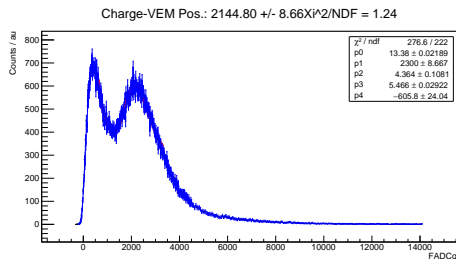
Fitting Histograms using:

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

Charge histogram for Station 1223

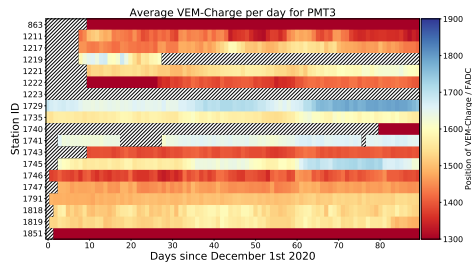
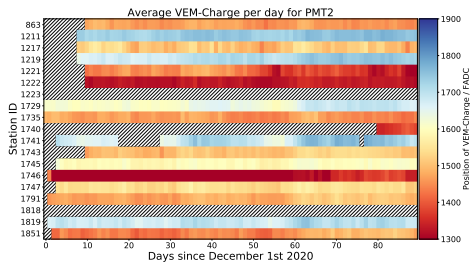
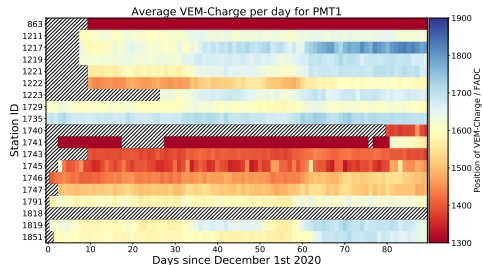


UB-PMT1

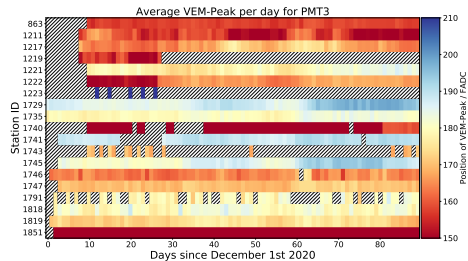
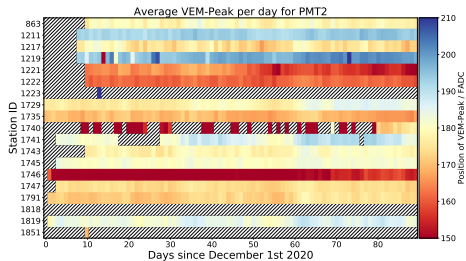
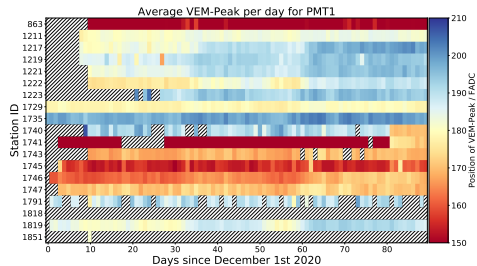


UUB-PMT1

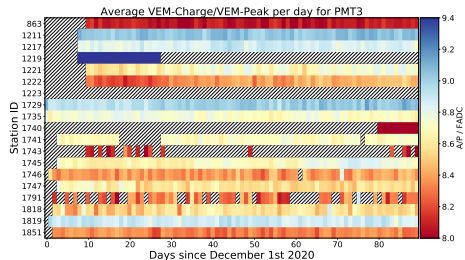
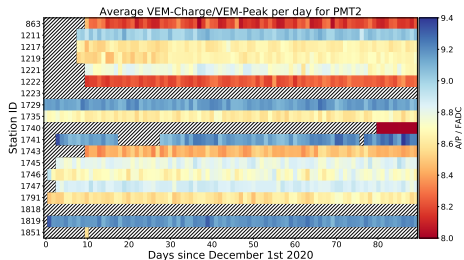
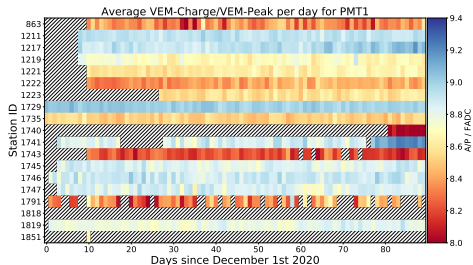
Position of VEM-Charge, average per day (traces agree with: $|M_f - M_l| < (2 * RMS_f)$)



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



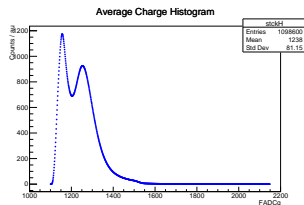
A/P average per day, traces that agree with: $|\text{Mean}_f - \text{Mean}_l| < (2 * \text{RMS}_f)$



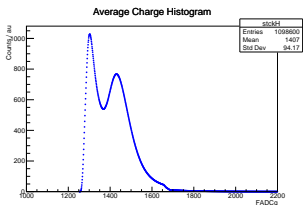
Thanks

Backup

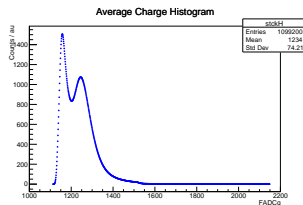
Averages histograms for Station 1223:



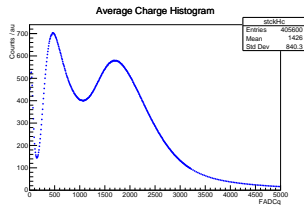
UB-LPMT1



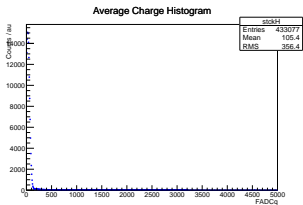
UB-LPMT2



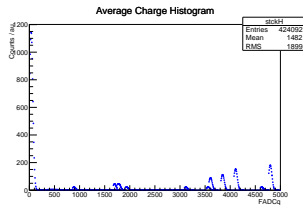
UB-LPMT3



UUB-LPMT1

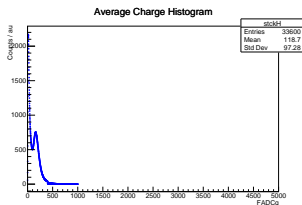


UUB-LPMT2

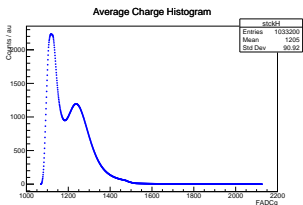


UUB-LPMT3

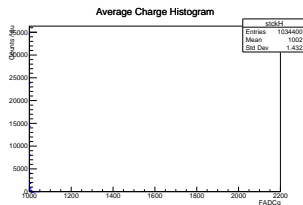
Averages histograms for Station 1851:



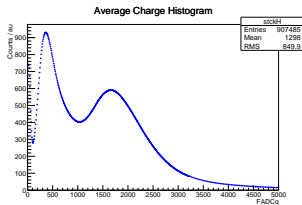
UB-LPMT1



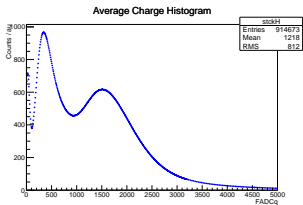
UB-LPMT2



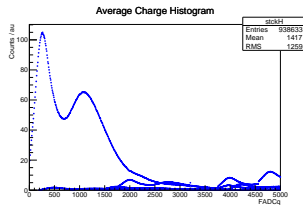
UB-LPMT3



UUB-LPMT1



UUB-LPMT2



UUB-LPMT3

UB:

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

