

Base Line studies for SDEU  
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Abstract

Second batch of SDEU

Introduction

At the end

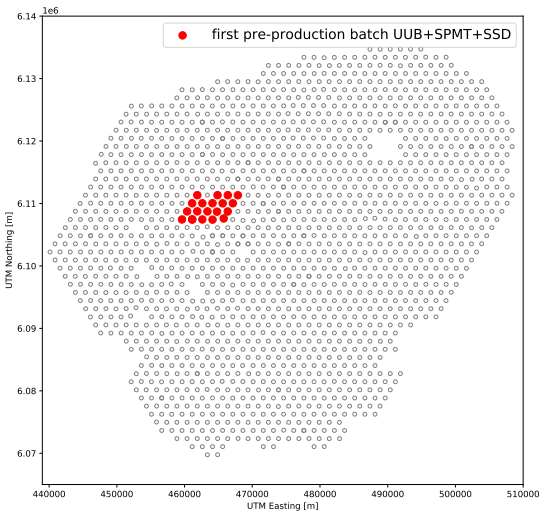


Figure 1: Stations for first pre-production batch including UUB, small PMT and SSD.

## Method implemented in CDAS

Peak case:

2

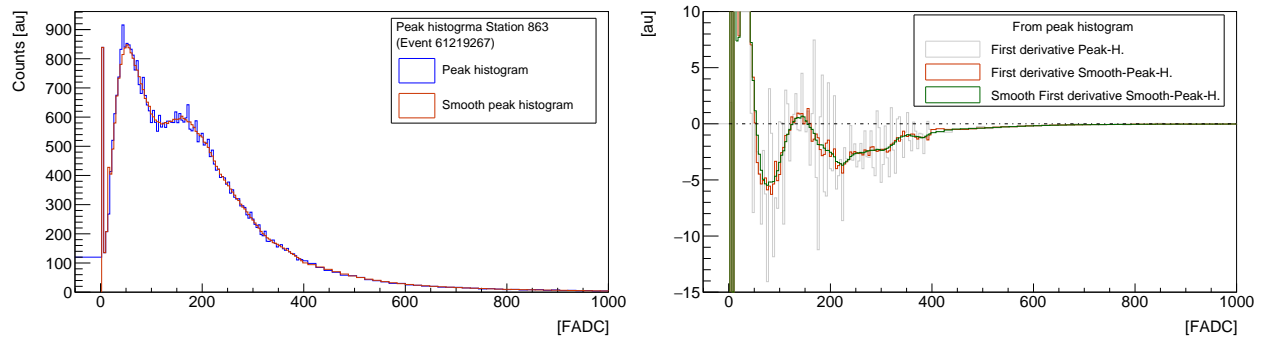


Figure 2: Stations for first pre-production batch including UUB, small PMT and SSD.

## Peak Histograms

Comparison between OffLine SdCalibrator (ad files) and our method for CDAS files. For peak,  $\chi^2/N_{\text{dof}} < 3.5$ .

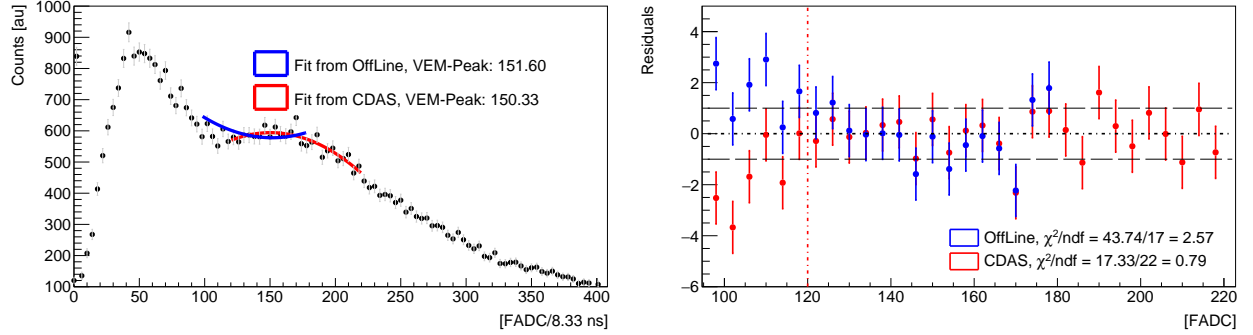


Figure 3: Stations for first pre-production batch including UUB, small PMT and SSD.

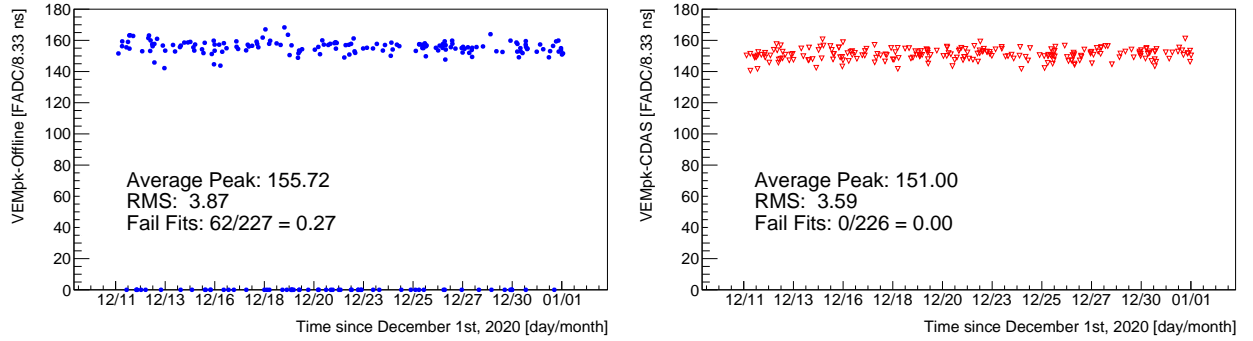


Figure 4: Stations for first pre-production batch including UUB, small PMT and SSD.

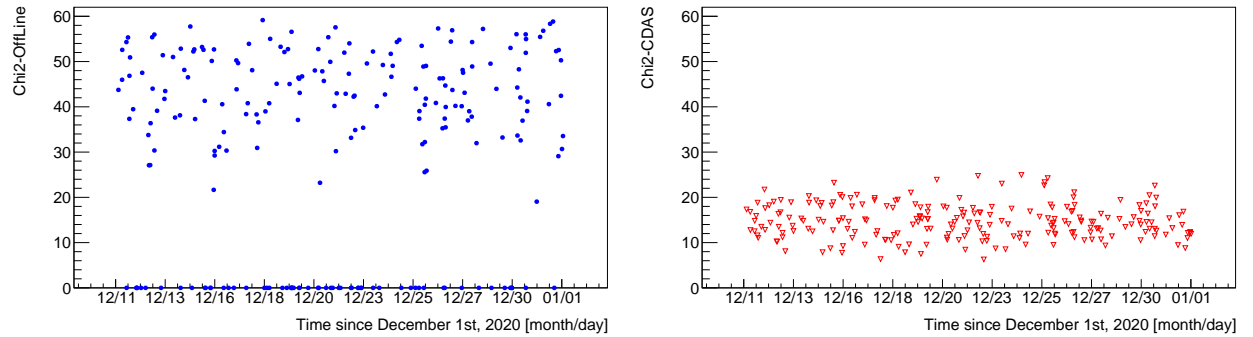


Figure 5: Stations for first pre-production batch including UUB, small PMT and SSD.

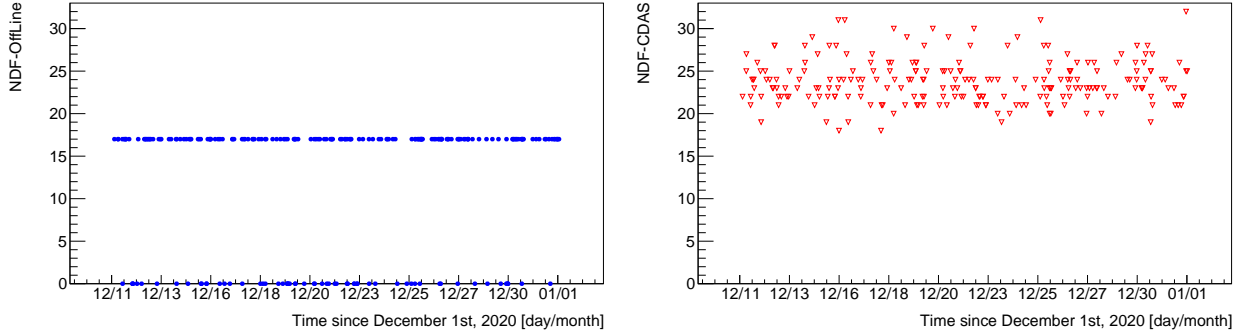


Figure 6: Stations for first pre-production batch including UUB, small PMT and SSD.

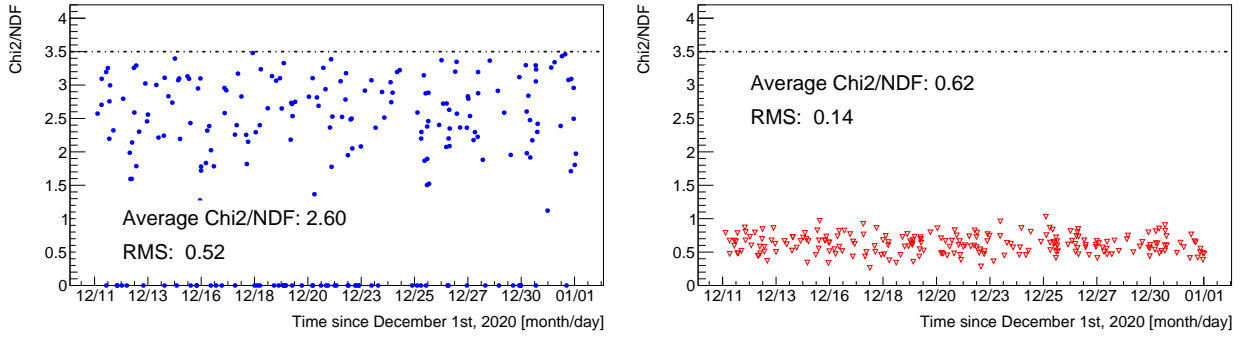


Figure 7: Stations for first pre-production batch including UUB, small PMT and SSD.

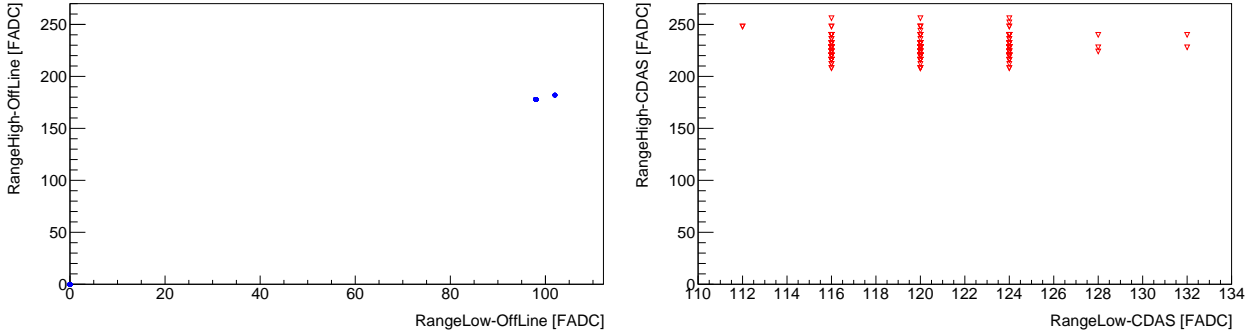


Figure 8: Stations for first pre-production batch including UUB, small PMT and SSD.

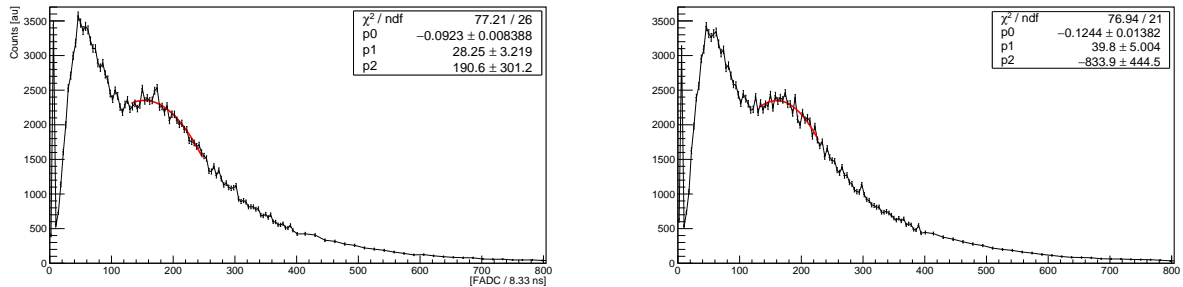


Figure 9: Left: failed fit Peak histogram for OffLine; event Id: 61319769, Dec 18, 2020. Right: failed Peak histogram for CDAS; event Id: 61304543, Dec 17, 2020.

## Charge Histograms

Comparison between OffLine SdCalibrator (ad files) and our method for CDAS files. For charge,  $\chi^2/\text{Ndf} < 5.5$ .

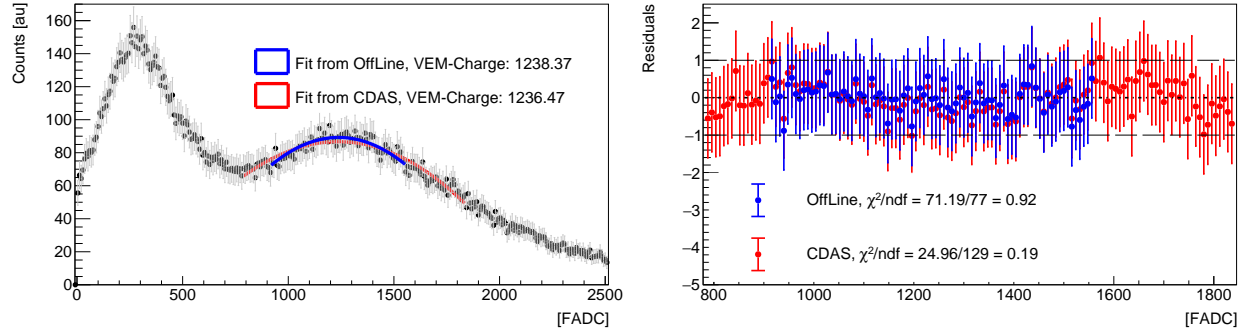


Figure 10: Stations for first pre-production batch including UUB, small PMT and SSD.

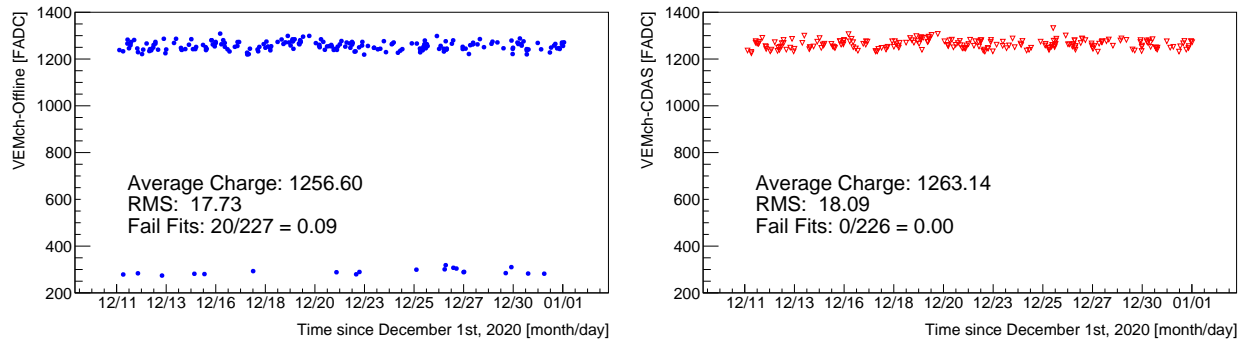


Figure 11: Stations for first pre-production batch including UUB, small PMT and SSD.

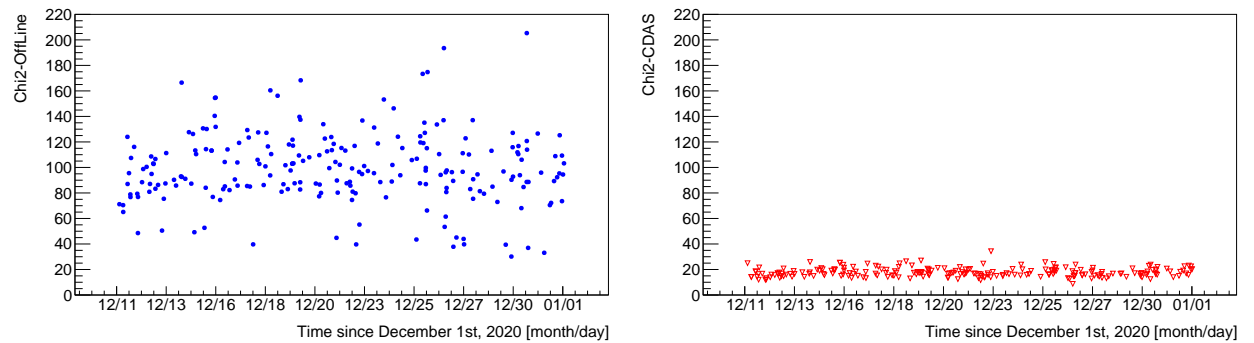


Figure 12: Stations for first pre-production batch including UUB, small PMT and SSD.

## Calibration histograms

Hi

TO DO

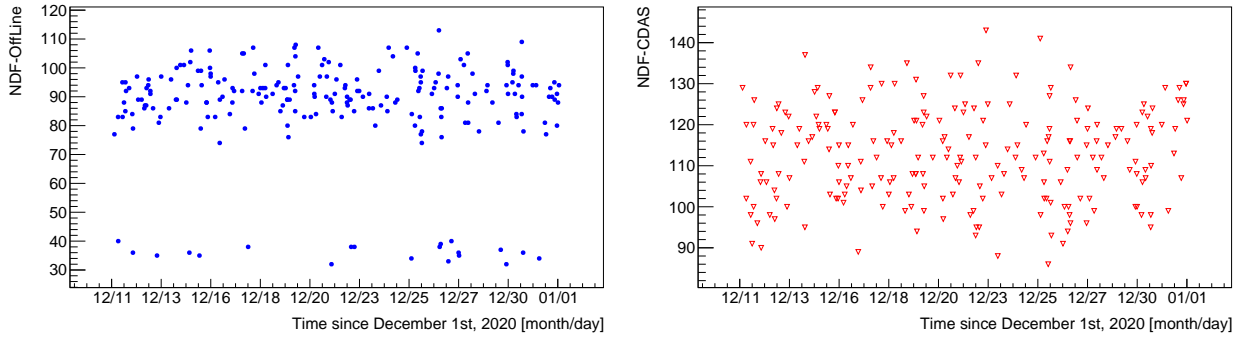


Figure 13: Stations for first pre-production batch including UUB, small PMT and SSD.

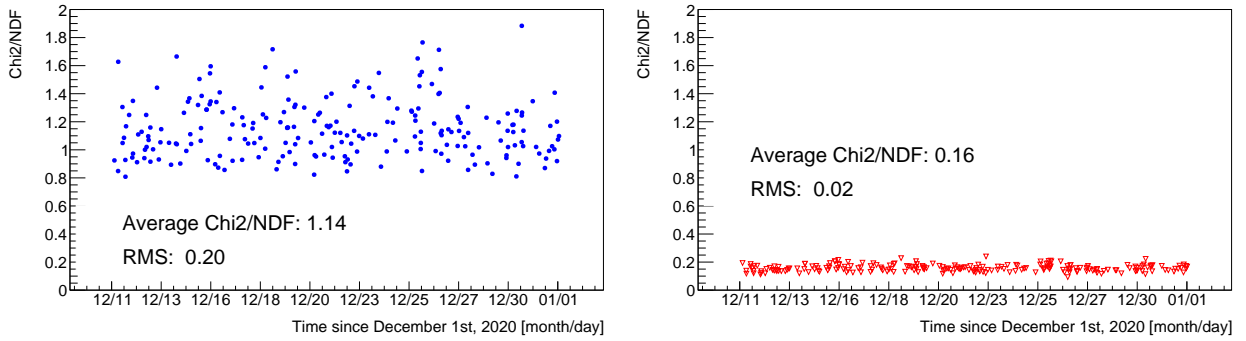


Figure 14: Stations for first pre-production batch including UUB, small PMT and SSD.

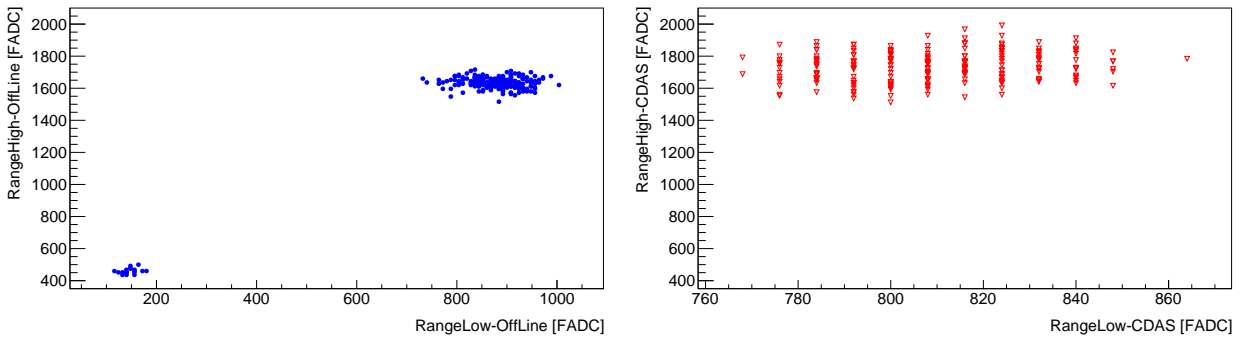


Figure 15: Stations for first pre-production batch including UUB, small PMT and SSD.

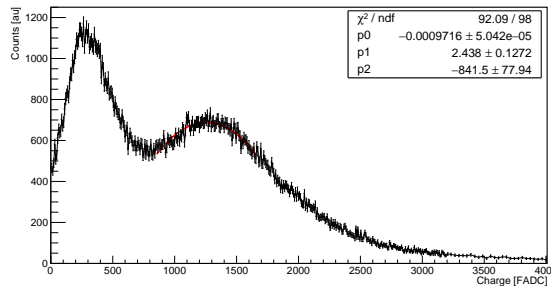


Figure 16: OffLine failed fit for Charge histogram, 863 station, event 61378695, pmt1. In red, the fit obtained in CDAS.