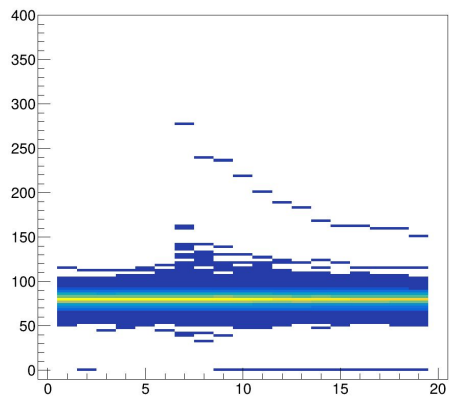


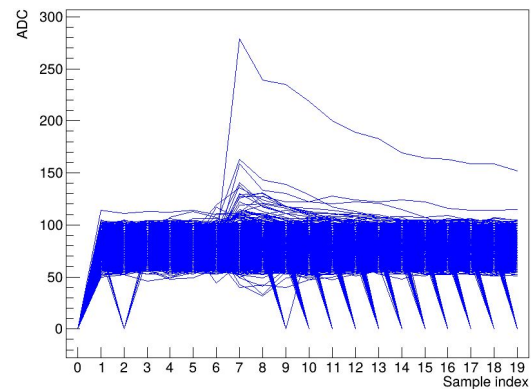
**April 15, 2026**

Run 325 : HV on HGCROCs: 40.7 V  
KCU1 ASIC 0 (SFIL 1)

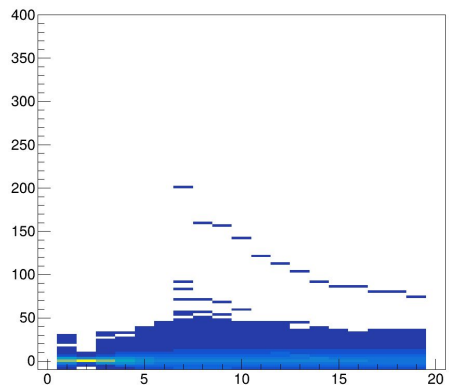
Waveform channel 140



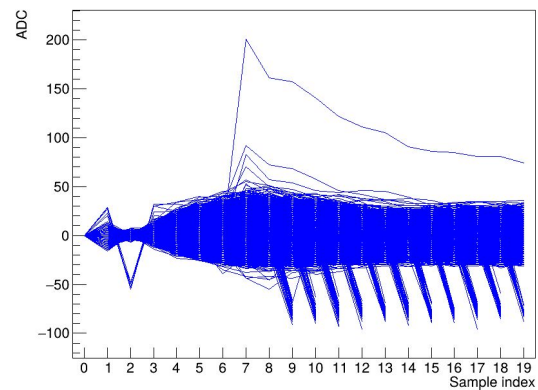
Raw | Ch 140

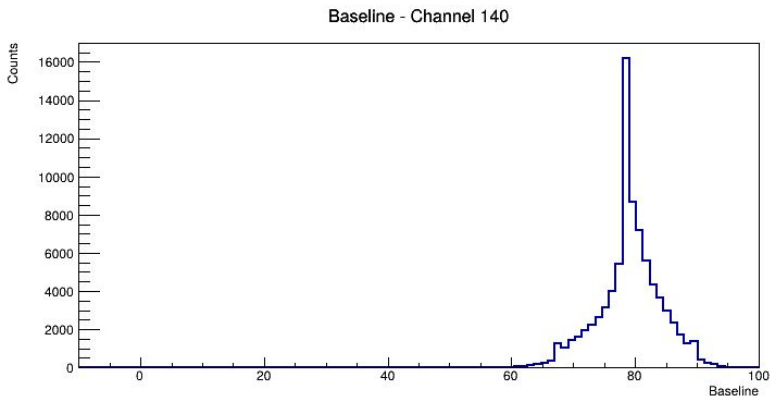


Baseline subtracted channel 140

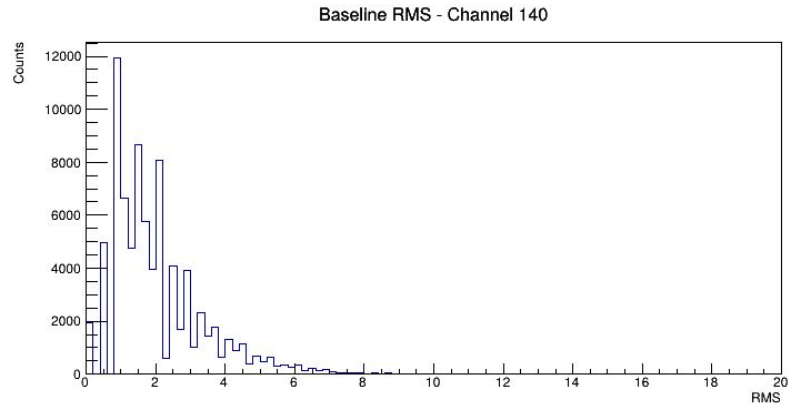


Baseline corrected | Ch 140





**Distribution of baseline values for channel 140 over all events**



**Distribution showing how much the signal fluctuates around the baseline (noise) for each event**

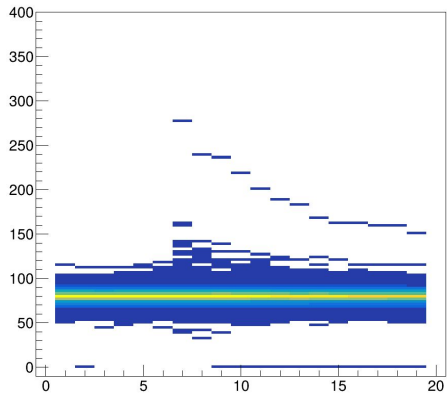
```
for (int s = 1; s<4 && s < nr_samples; s++) {  
    double x = p->iValue(n, s, ch) - baseline[ch];  
    baseline_rms += x * x;  
    nbase++;  
}
```

**For the same sample region for the baseline calculation, recorded the fluctuation around the baseline. Then calculated the rms.**

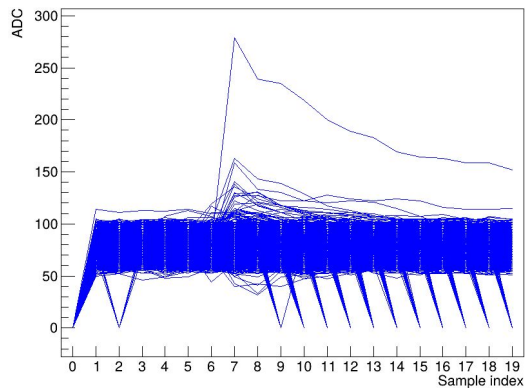
# Run 325 : HV on HGCROCs: 40.7 V

## KCU1 ASIC 0 (SFIL 1)

Waveform channel 140

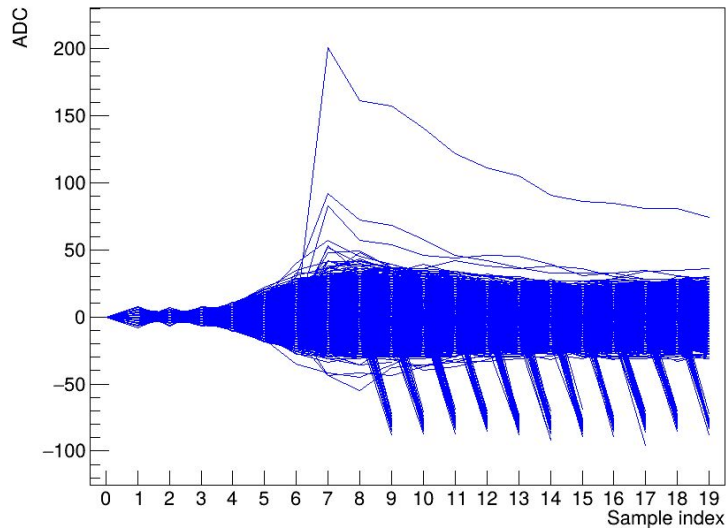


Raw | Ch 140

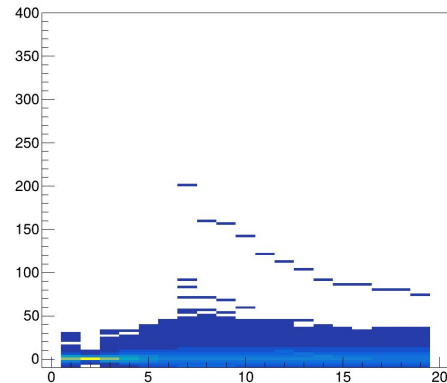


```
for (int s = 1; s < 4 && s < nr_samples; s++) {  
    double x = p->iValue(n, s, ch) -  
baseline[ch];  
    baseline_rms += x * x;  
    nbase++;  
}
```

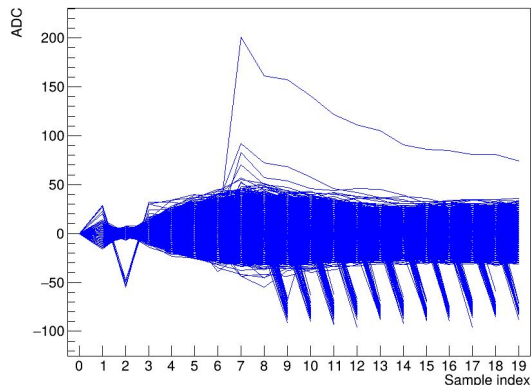
Baseline corrected | Ch 140



Baseline subtracted channel 140



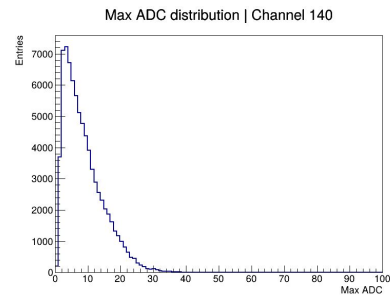
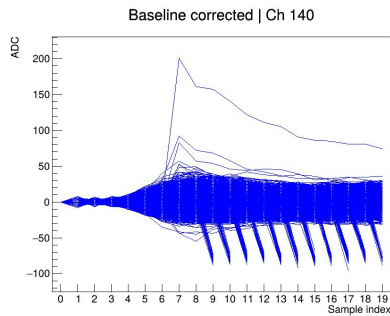
Baseline corrected | Ch 140



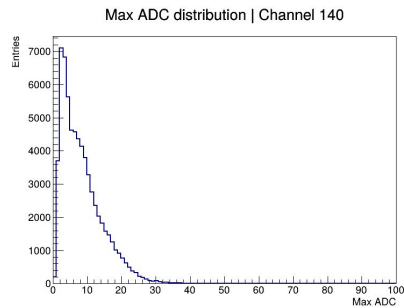
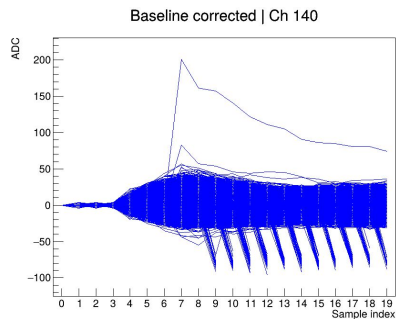
# Run 325 : HV on HGCROCs: 40.7 V

## KCU1 ASIC 0 (SFIL 1)

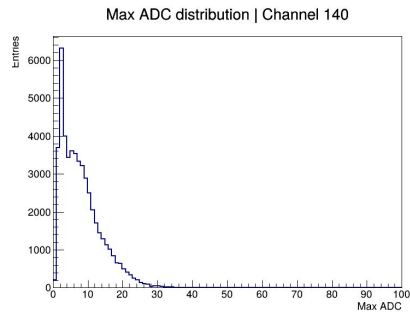
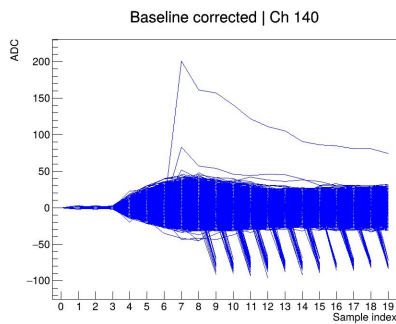
```
if (baseline_rms > 5.0)  
continue;
```



```
if (baseline_rms > 3.0)  
continue;
```



```
if (baseline_rms > 2.0)  
continue;
```



```
if (baseline_rms > 1.0)
continue;
```

