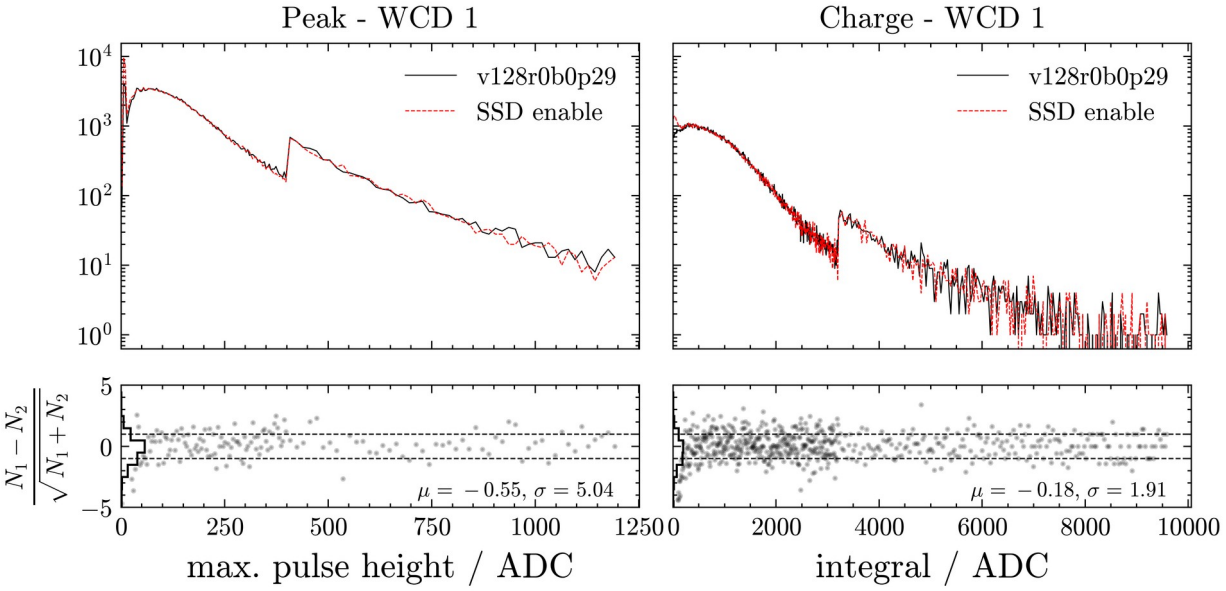
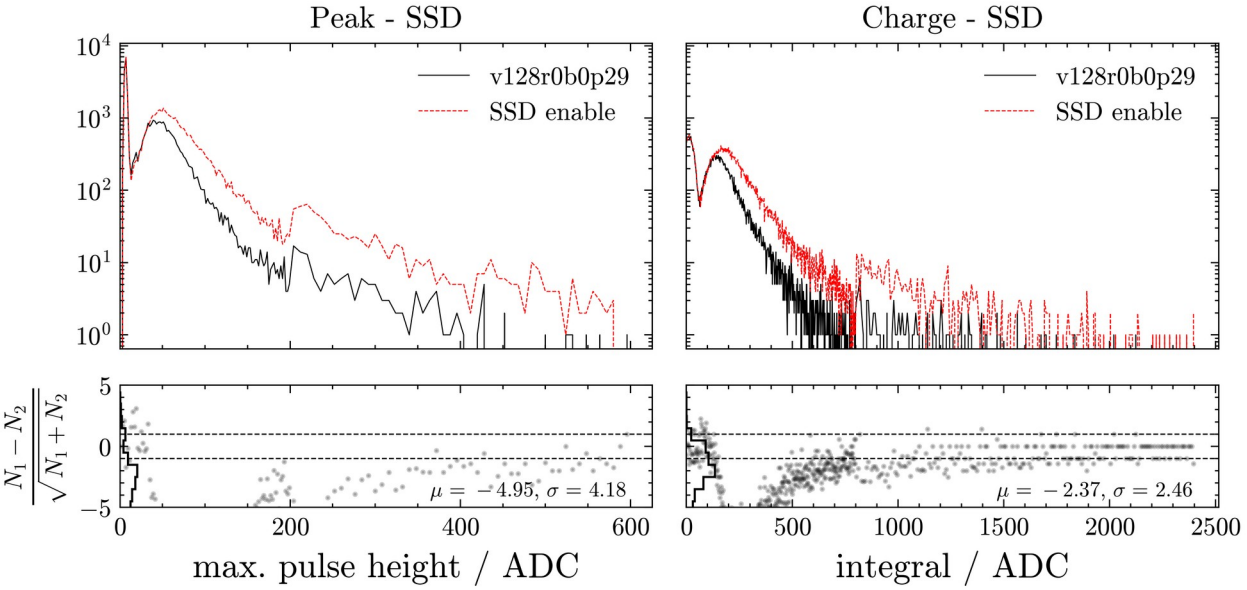
SSD online calib

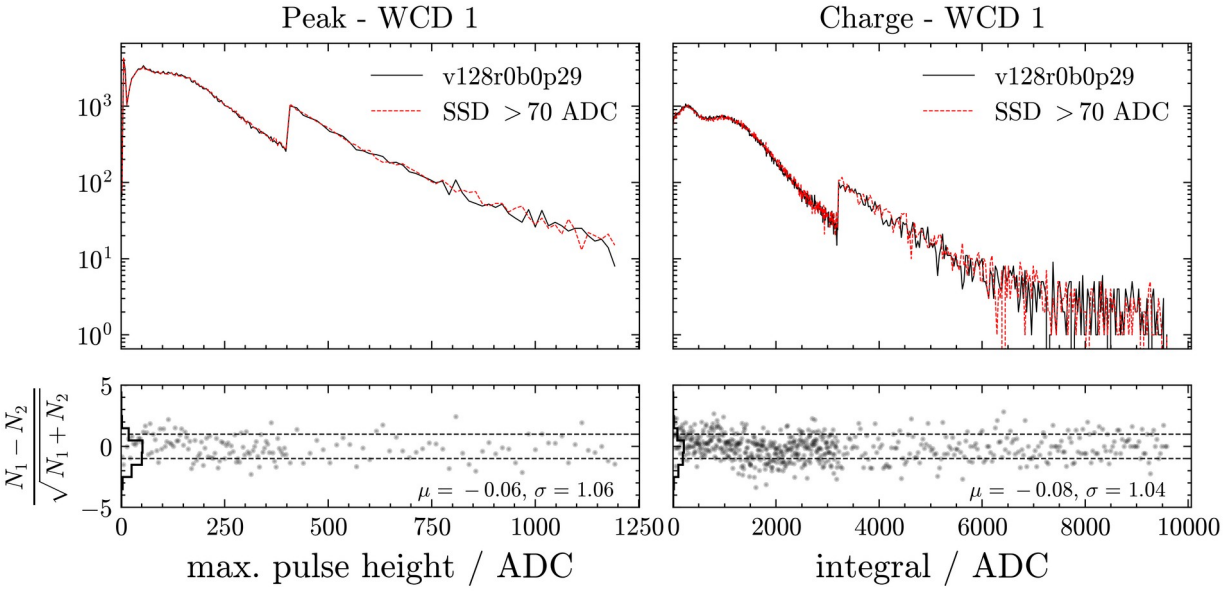
Name 1, Name 2, Name 3

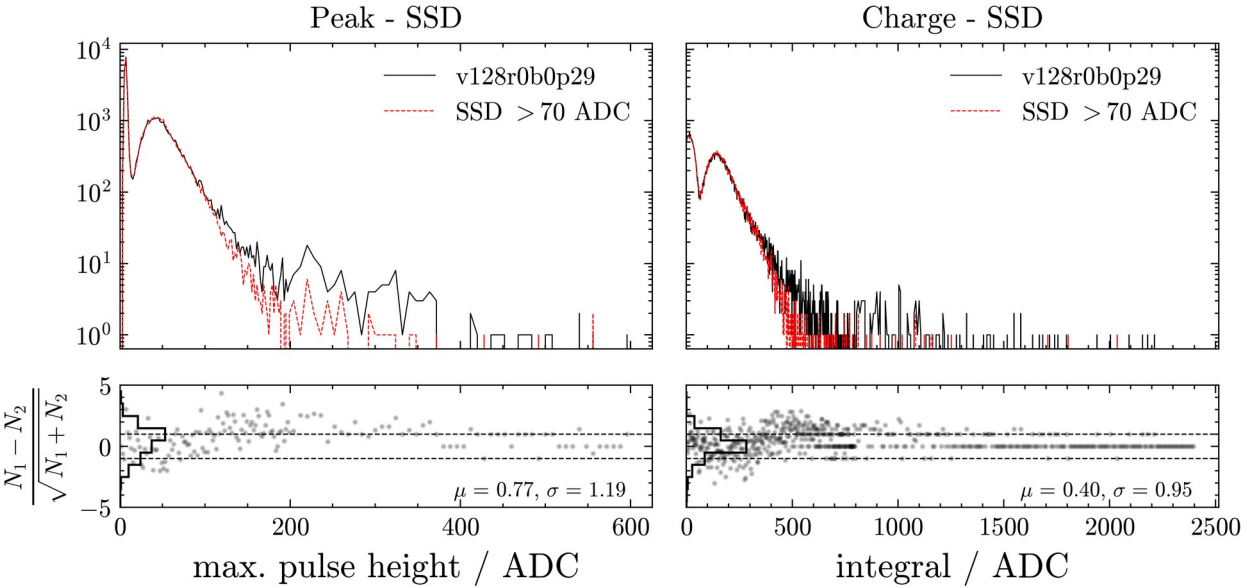
Outline

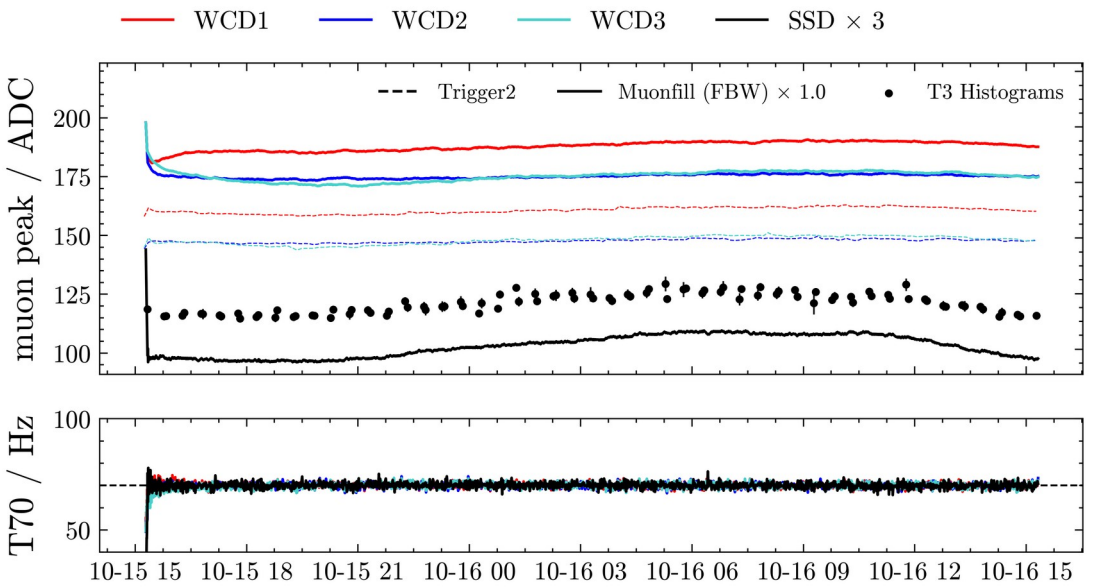
- Introduction
- First point
  - Discussion
- Second point
- Summary and outlook

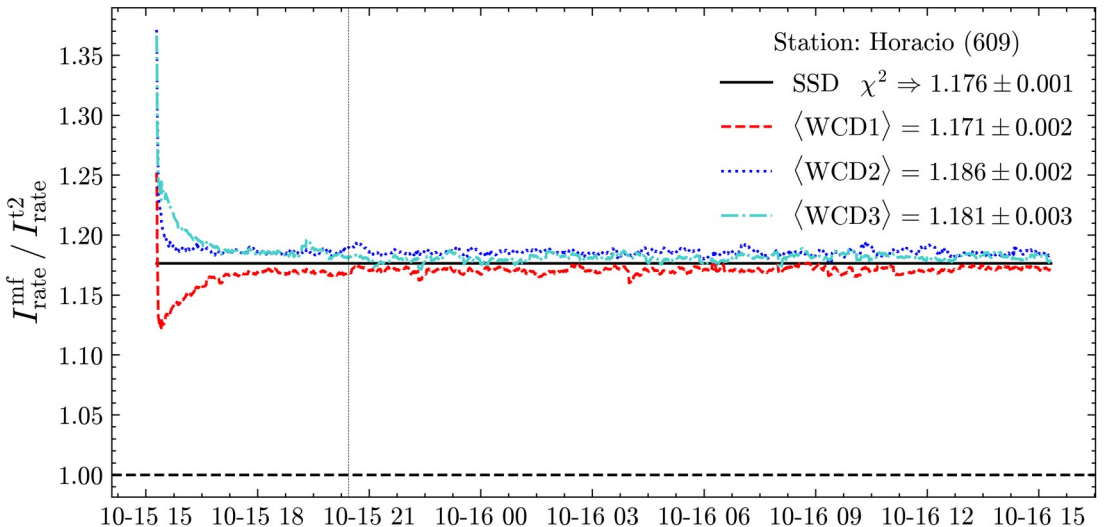

Peak - WCD 1
Charge - WCD 1
v128r0b0p29
SSD enable
10^4
10^3
10^2
10^1
10^0
$\frac{N_1 - N_2}{\sqrt{N_1 + N_2}}$
5
0
−5
$\mu = -0.55, \sigma = 5.04$
$\mu = -0.18, \sigma = 1.91$
0
250
500
750
1000
1250
2000
4000
6000
8000
10000
max. pulse height / ADC
integral / ADC

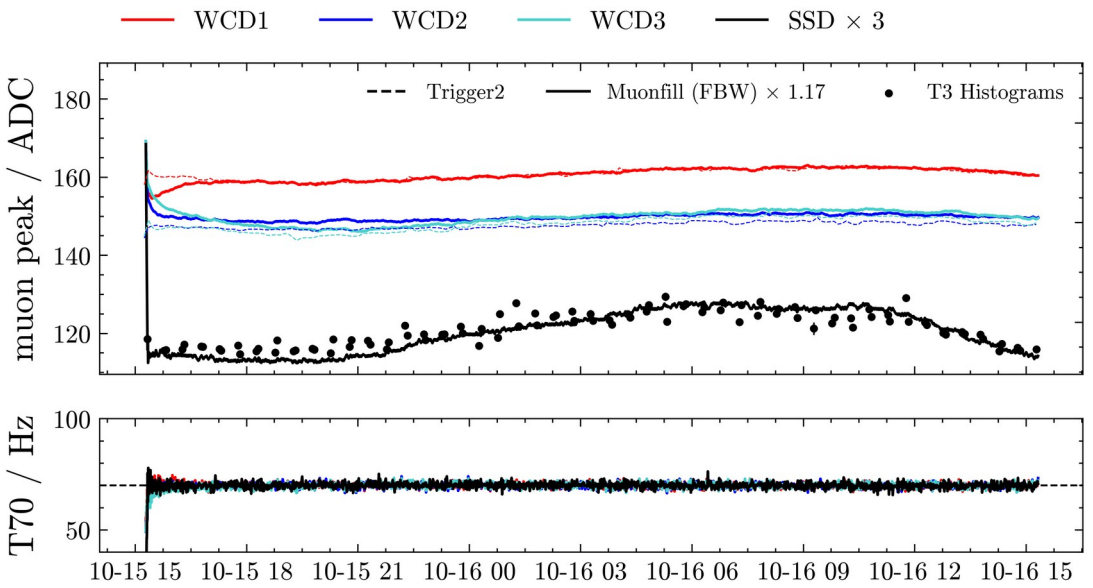

Peak - SSD
Charge - SSD
v128r0b0p29
SSD enable
$\frac{N_1 - N_2}{\sqrt{N_1 + N_2}}$
$\mu = -4.95, \sigma = 4.18$
$\mu = -2.37, \sigma = 2.46$
max. pulse height / ADC
integral / ADC


Peak - WCD 1
Charge - WCD 1
v128r0b0p29
SSD > 70 ADC
10^3
10^2
10^1
10^0
$\frac{N_1 - N_2}{\sqrt{N_1 + N_2}}$
5
0
−5
$\mu = -0.06, \sigma = 1.06$
$\mu = -0.08, \sigma = 1.04$
0
250
500
750
1000
1250
2000
4000
6000
8000
10000
max. pulse height / ADC
integral / ADC


Peak - SSD
Charge - SSD
v128r0b0p29
SSD > 70 ADC
10^4
10^3
10^2
10^1
10^0
$\frac{N_1 - N_2}{\sqrt{N_1 + N_2}}$
5
0
−5
$\mu = 0.77, \sigma = 1.19$
$\mu = 0.40, \sigma = 0.95$
0
200
400
600
500
1000
1500
2000
2500
max. pulse height / ADC
integral / ADC


WCD1
WCD2
WCD3
SSD × 3
Trigger2
Muonfill (FBW) × 1.0
T3 Histograms
muon peak / ADC
200
175
150
125
100
T70 / Hz
100
50
10-15 15
10-15 18
10-15 21
10-16 00
10-16 03
10-16 06
10-16 09
10-16 12
10-16 15


Station: Horacio (609)
SSD $\chi^2 \Rightarrow 1.176 \pm 0.001$
$\langle \mathrm{WCD1} \rangle = 1.171 \pm 0.002$
$\langle \mathrm{WCD2} \rangle = 1.186 \pm 0.002$
$\langle \mathrm{WCD3} \rangle = 1.181 \pm 0.003$
$I^{\mathrm{mf}}_{\mathrm{rate}} \,/\, I^{\mathrm{t2}}_{\mathrm{rate}}$
1.35
1.30
1.25
1.20
1.15
1.10
1.05
1.00
10-15 15
10-15 18
10-15 21
10-16 00
10-16 03
10-16 06
10-16 09
10-16 12
10-16 15


WCD1
WCD2
WCD3
SSD × 3
Trigger2
Muonfill (FBW) × 1.17
T3 Histograms
muon peak / ADC
180
160
140
120
T70 / Hz
100
50
10-15 15
10-15 18
10-15 21
10-16 00
10-16 03
10-16 06
10-16 09
10-16 12
10-16 15

Backup