The HV GUI

rpi4:2001 rpi7:2001

1458

PANIC OFF

ON

HV ON

OFF

status
remote

S2 S4 S7 S12

Ch_name	Meas_uA	Meas_V	Target_V	RUp_V/s	RDn_V/s	Trip_uA	Ch_En	Status	MVDZone	MCDZone	
L0.0	0.6	1800.0	1800.0	60.2	60.2	200.0	☑	0001	1.5	1.3	312
L0.1	-0.0	20.0	0.0	61.3	61.3	200.0	☐	0000	1.5	1.3	312
L0.2	0.7	1799.9	1800.0	61.1	61.1	200.0	☑	0001	1.5	1.3	312
L0.3	0.1	9.1	0.0	61.0	61.0	200.0	☐	0000	1.5	1.3	312
L0.4	0.8	1800.1	1800.0	61.1	61.1	200.0	☑	0001	1.5	1.3	312
L0.5	-0.9	13.2	0.0	60.5	60.5	200.0	☐	0000	1.5	1.3	312
L0.6	1.3	1800.6	1800.0	60.4	60.4	200.0	☑	0001	1.5	1.3	312
L0.7	0.1	15.2	0.0	60.2	60.2	200.0	☐	0000	1.5	1.3	312
L0.8	1.1	1800.8	1800.0	60.7	60.7	200.0	☑	0001	1.5	1.3	312
L0.9	0.2	13.0	0.0	60.6	60.6	200.0	☐	0000	1.5	1.3	312
L0.10	0.9	1800.9	1800.0	60.8	60.8	200.0	☑	0001	1.5	1.3	312
L0.11	-0.5	12.3	0.0	60.9	60.9	200.0	☐	0000	1.5	1.3	312

Status

11:51:27 PM Oct 17, 2016 > INFO : Connection closed: adaq2.jlab.org (129.57.192.103): 2016/10/17 23:51:27
11:51:27 PM Oct 17, 2016 > INFO : Request:RHRS_SC GET MC 1:1,1:6
11:51:27 PM Oct 17, 2016 > INFO : Get connection from: adaq2.jlab.org (129.57.192.103): 2016/10/17 23:51:27
11:51:27 PM Oct 17, 2016 > INFO : Connection closed: adaq2.jlab.org (129.57.192.103): 2016/10/17 23:51:27
11:51:27 PM Oct 17, 2016 > INFO : Request:get maplist
11:51:27 PM Oct 17, 2016 > INFO : Request:get maplist
11:51:27 PM Oct 17, 2016 > INFO : Request:get maplist
11:51:27 PM Oct 17, 2016 > INFO : Request:get maplist
11:51:27 PM Oct 17, 2016 > INFO : Request:get maplist
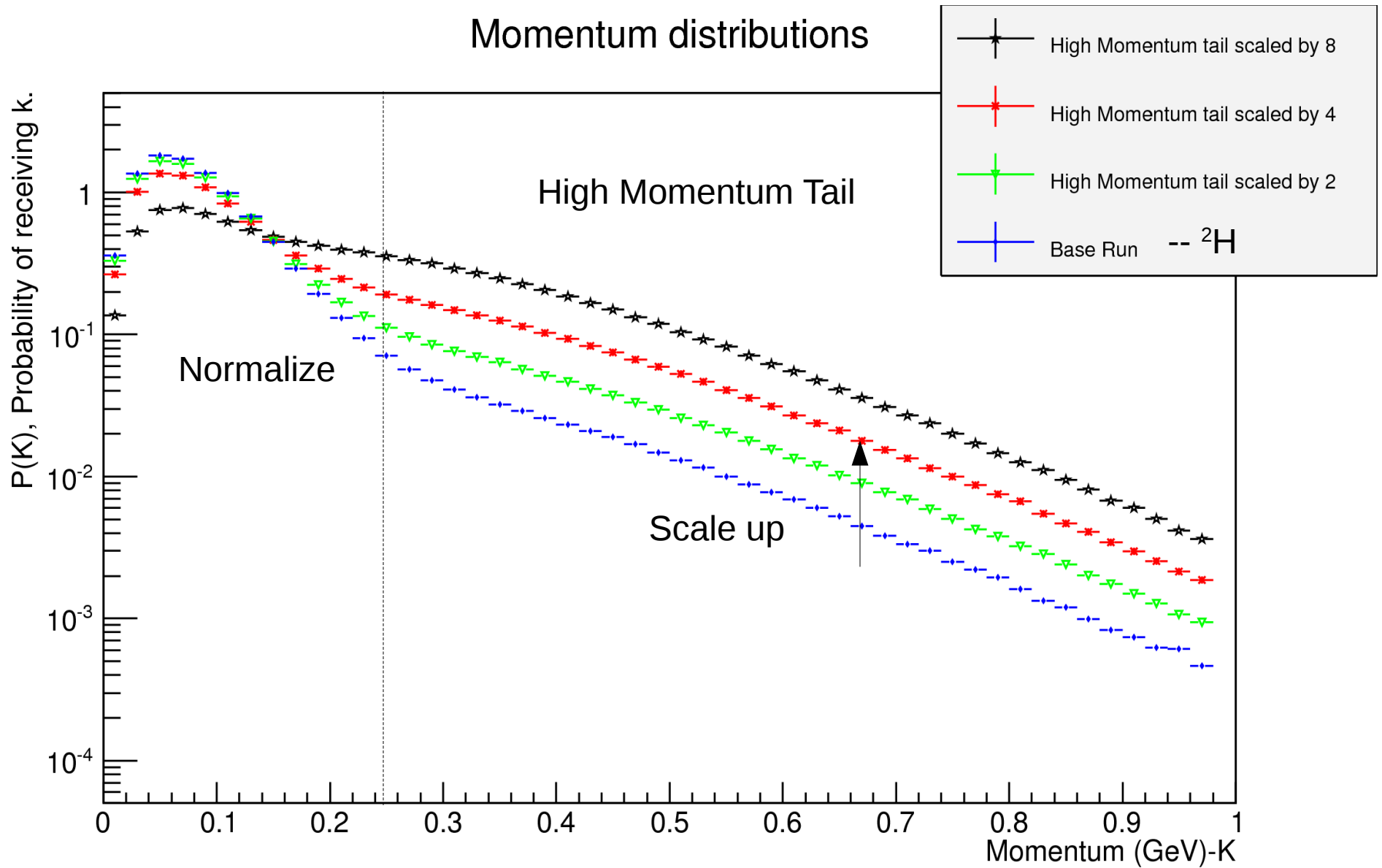11:51:27 PM Oct 17, 2016 > INFO : Request:get maplist

1

HV crates and cards(Old BB set-up)

HV

- Start GUI
  - Change to the "slowc" directory
  - Run the comand "./hvs left" or "./hvs right"
  - Logbook entry 3435487, says to run the HV GUI on adaq2 (adev@ adaq2)
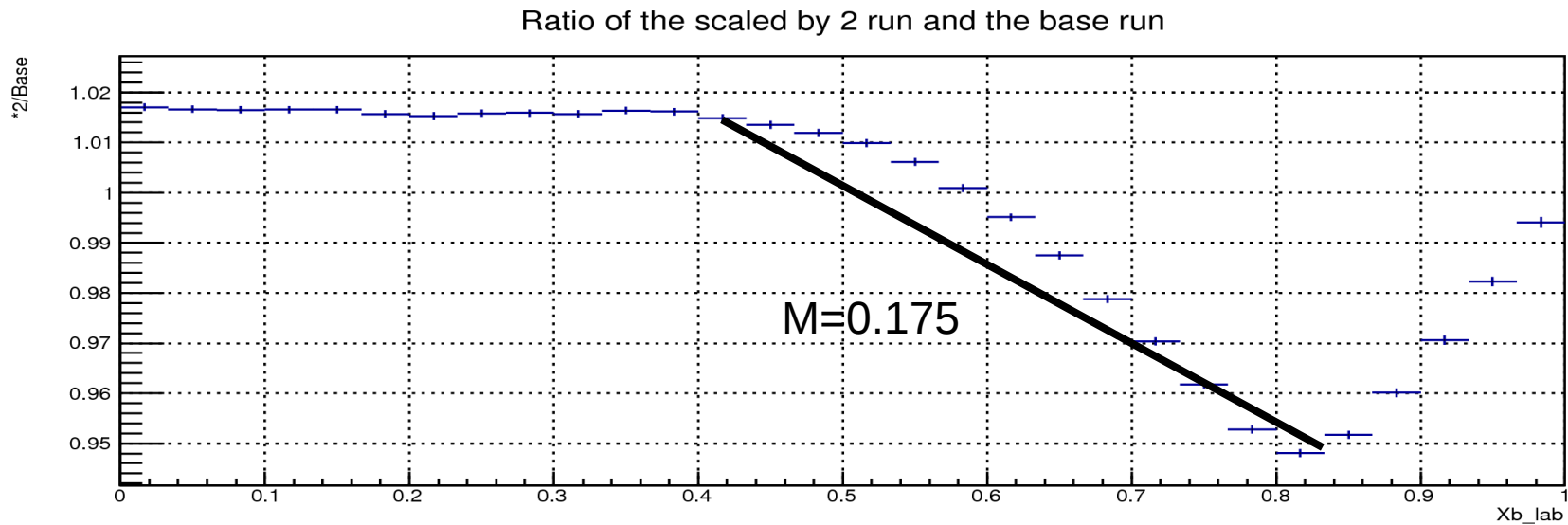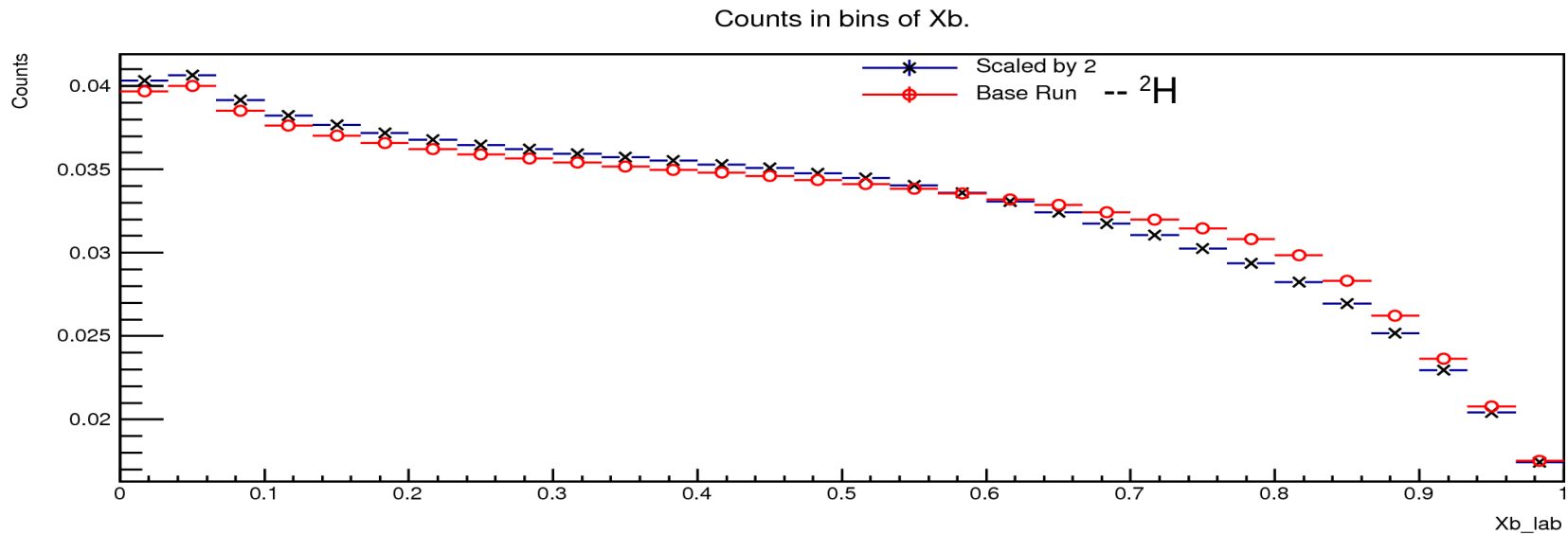 - This will allow communication between the CODA Auto logger and the HV GUI

HV

- Most common issues:
  - Communication error with the GUI
    - Fixed by restarting the GUI.
  - A single channel on a HV card goes bad.
    - Solved by using a spare channel to continue powering the detector.
      - Requires access to hall.
      - Need to log all changes: map to cable layouts.
- Not common issue: raspberry pi malfunctions
  - Escorted access: The only time I saw this in the logbook, Bob went in the hall to fix (last April).
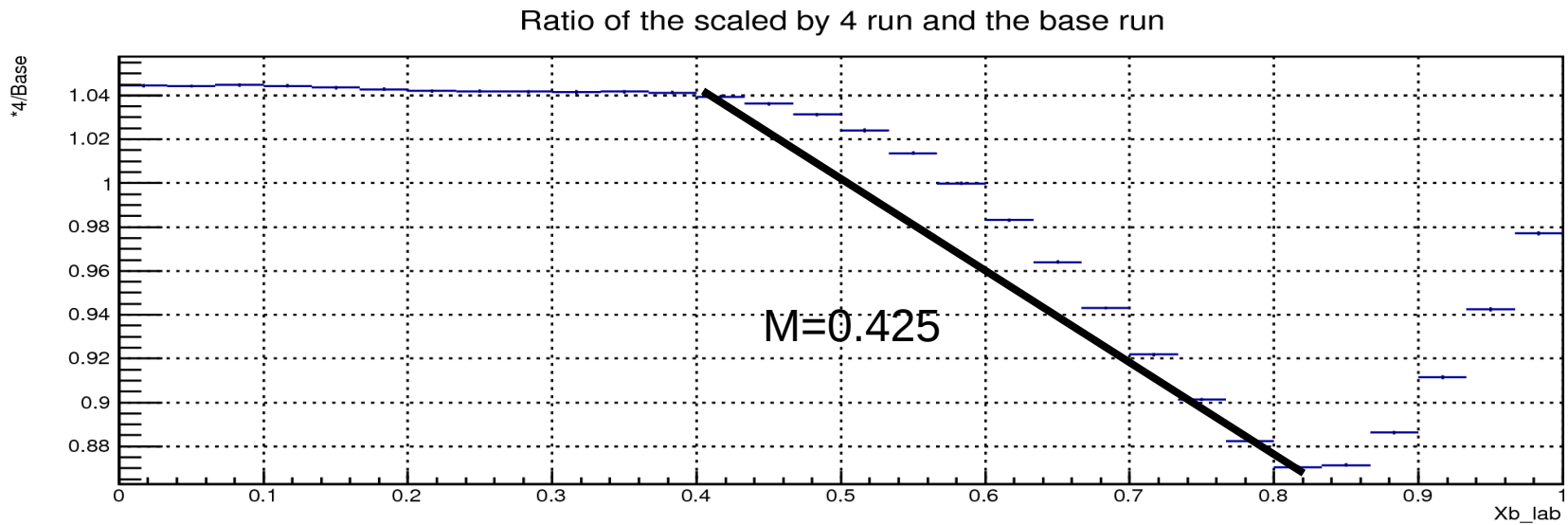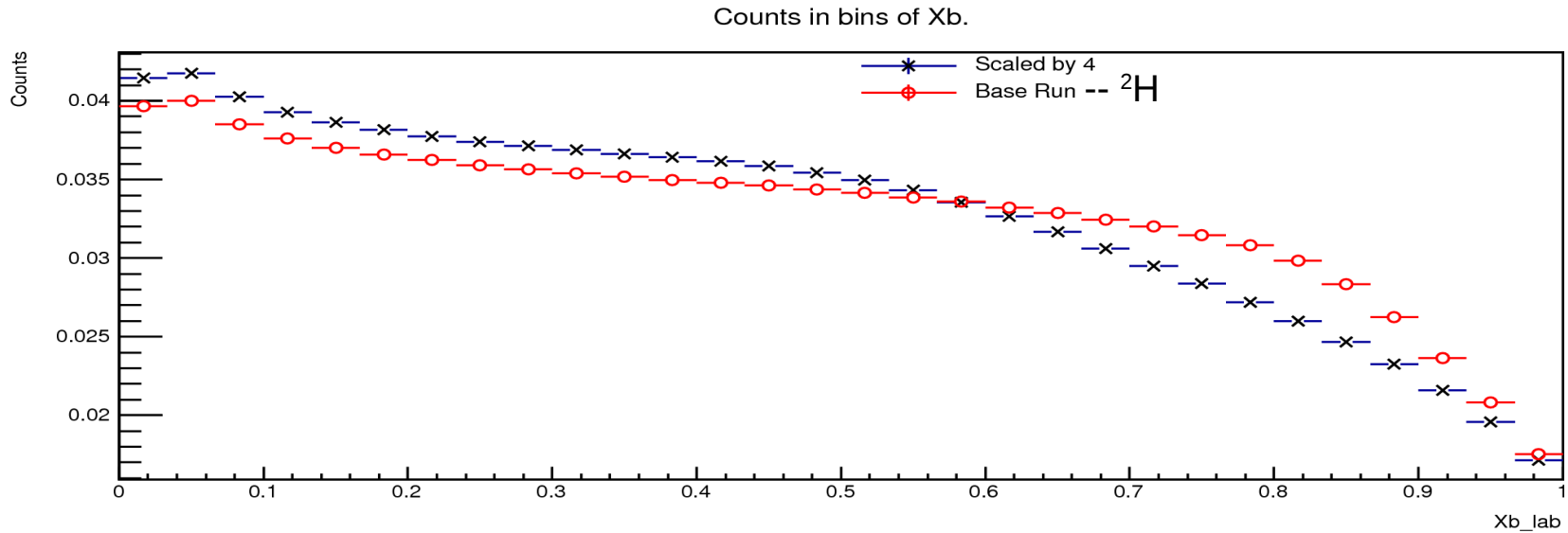
Apply a Momentum distribution to our target proton

Momentum distributions

P(K), Probability of receiving k.

High Momentum Tail

Normalize

Scale up

High Momentum tail scaled by 8

High Momentum tail scaled by 4

High Momentum tail scaled by 2

Base Run $-- \; {}^{2}H$

Momentum (GeV)-K

Inelastic scattering Results

Counts in bins of Xb.

Ratio of the scaled by 2 run and the base run

M=0.175

Inelastic scattering Results

Counts in bins of Xb.

Ratio of the scaled by 4 run and the base run

M=0.425

Inelastic scattering Results

Counts in bins of Xb.

Ratio of the scaled by 8 run and the base run