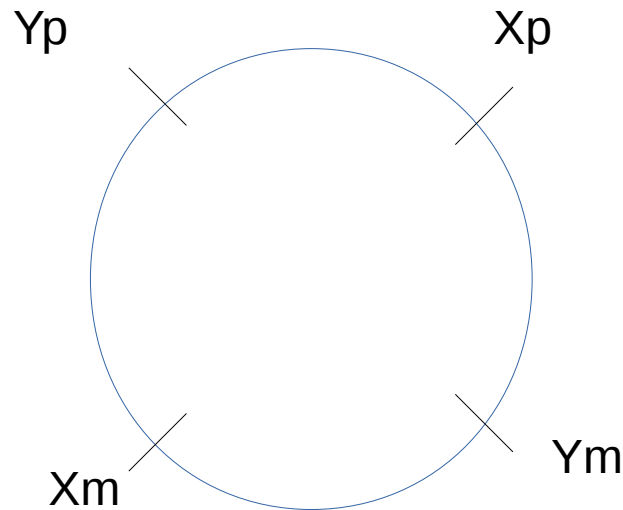


BPM update

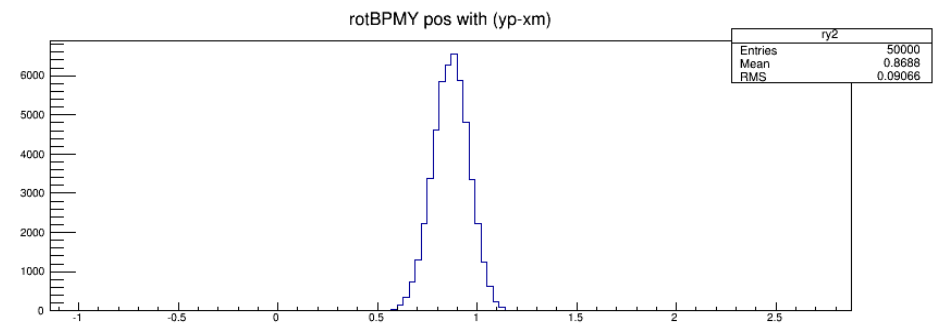
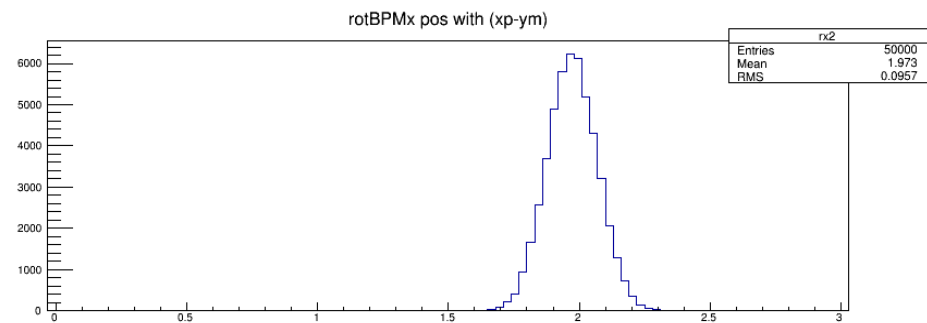
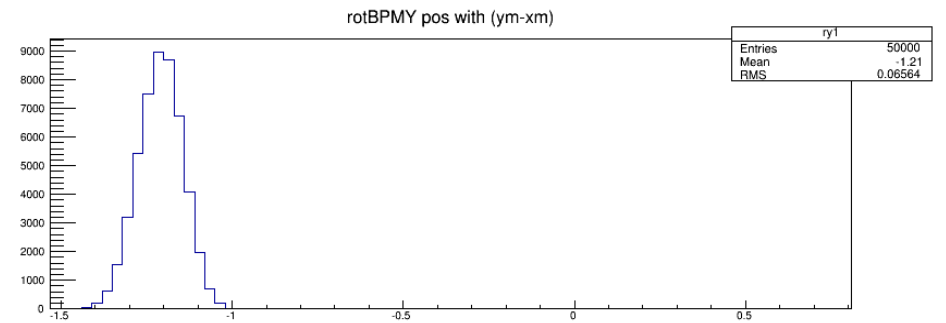
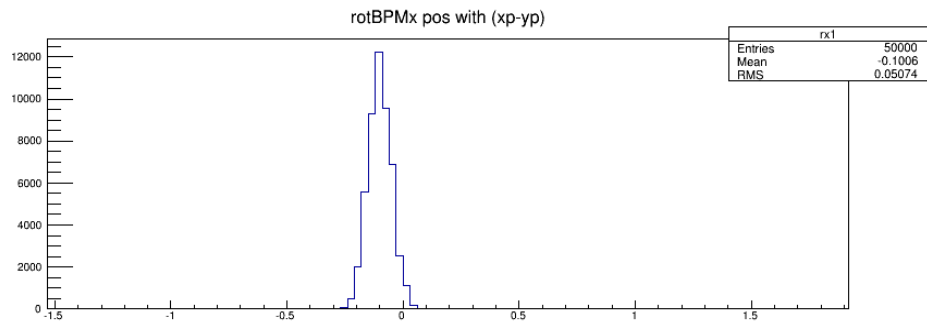
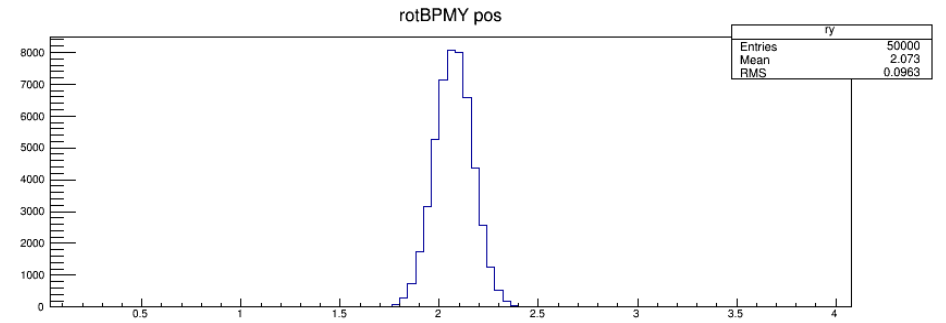
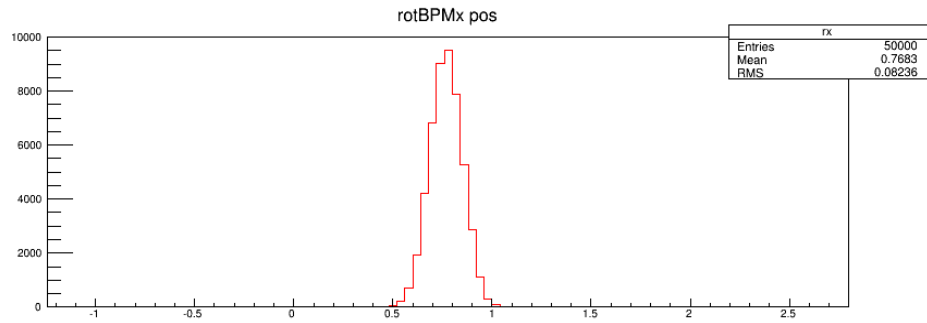
- Show three runs that have raster off
 - GMP run 23752
 - Ar 466 (Harp scan run)
 - Ar 861



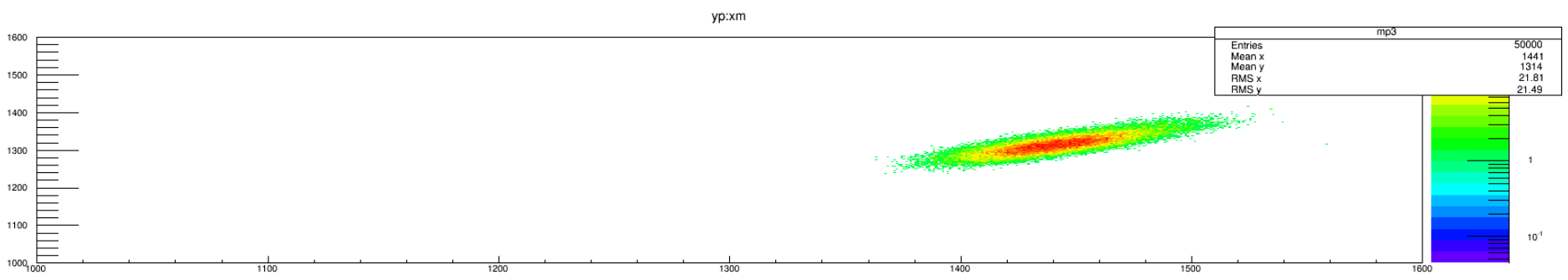
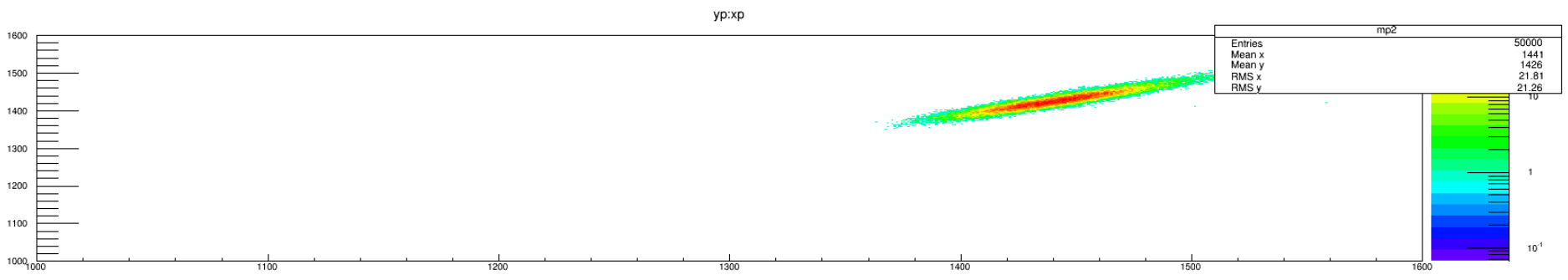
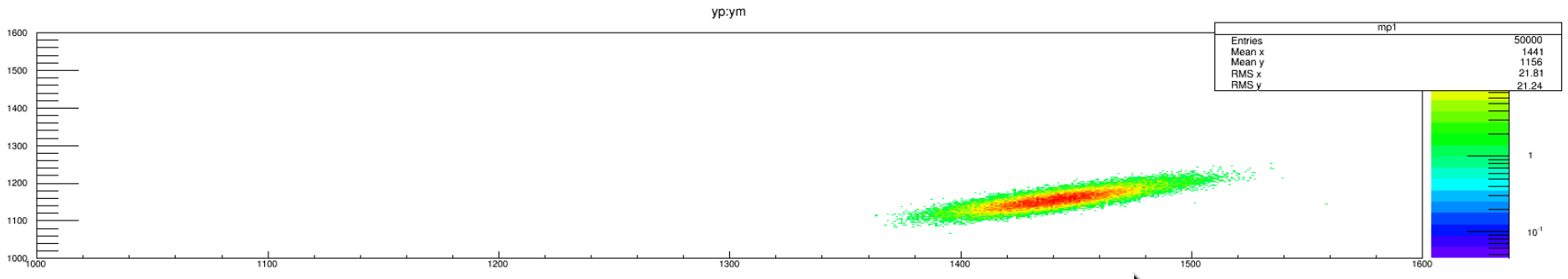
Run 23752

File Edit View Options Tools

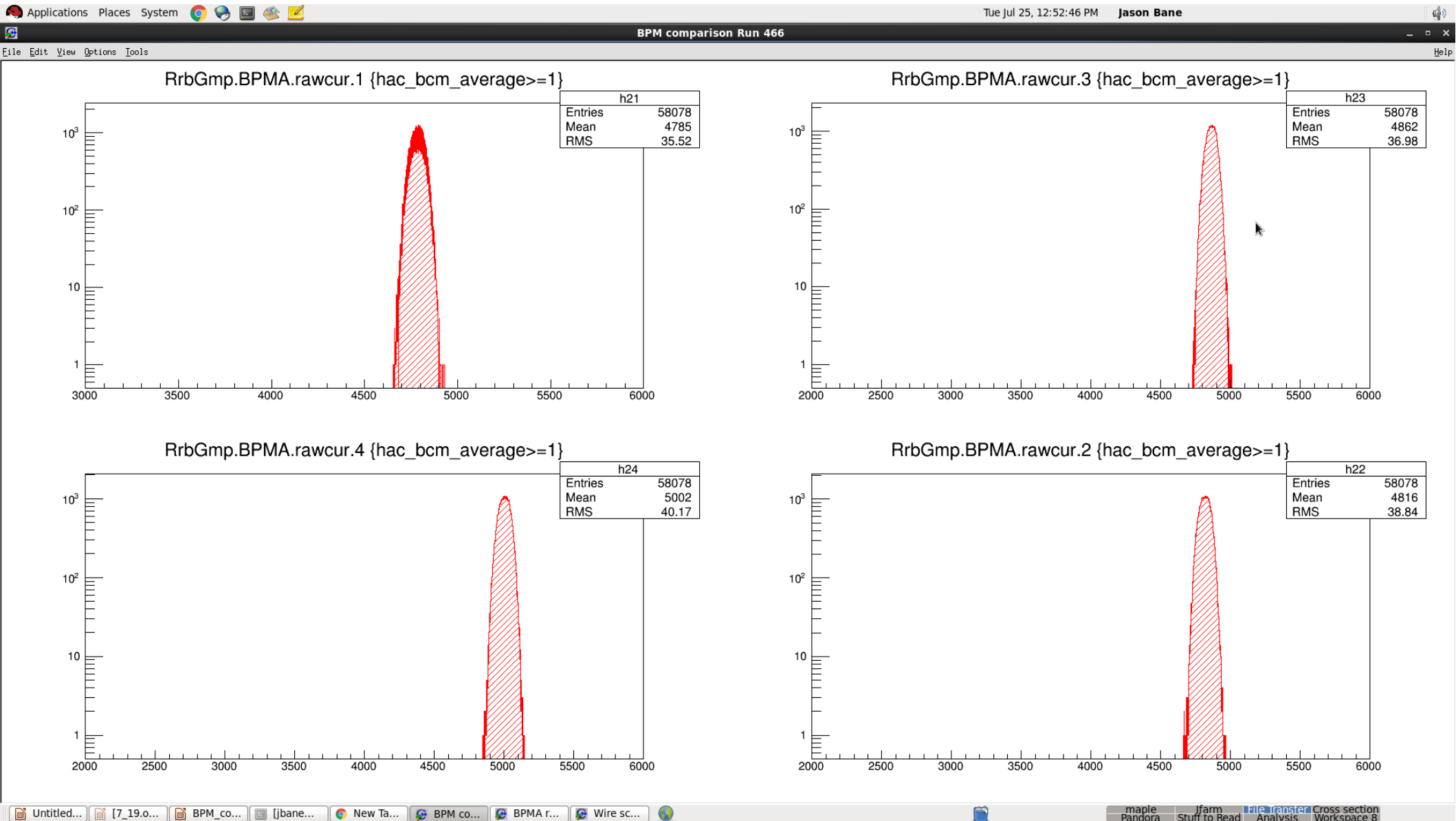
Help



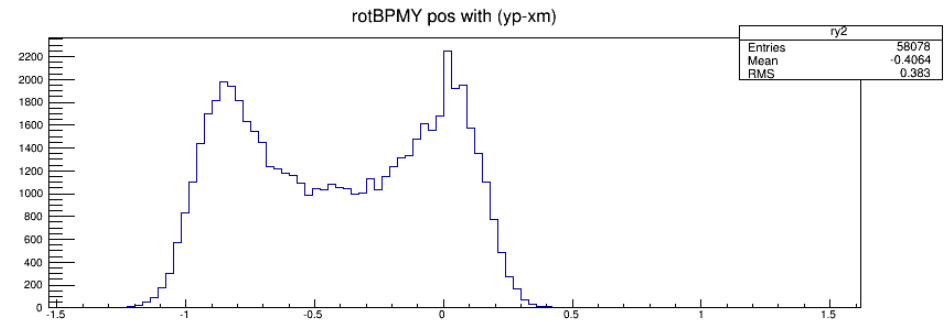
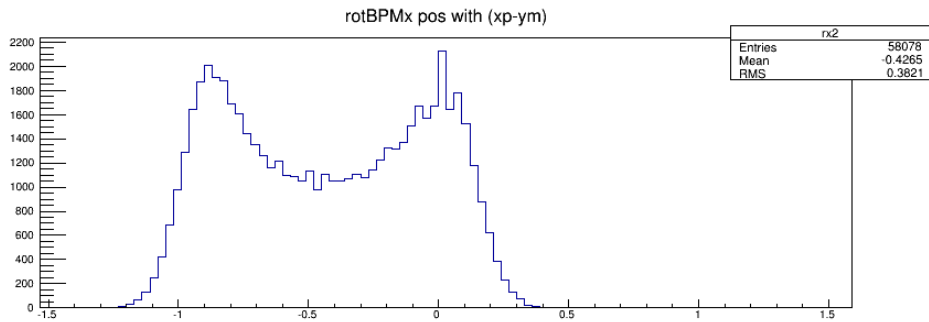
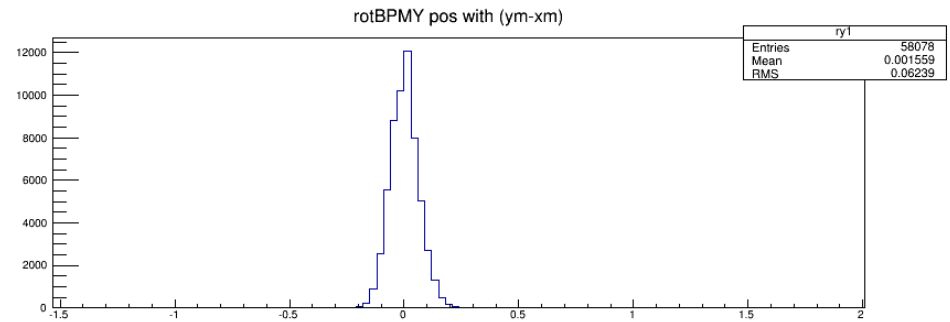
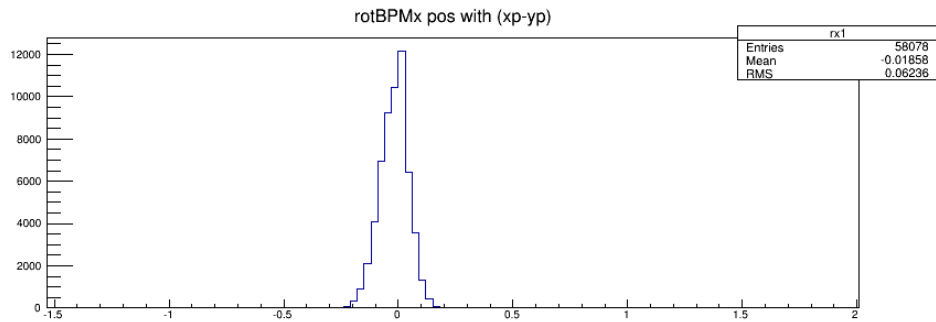
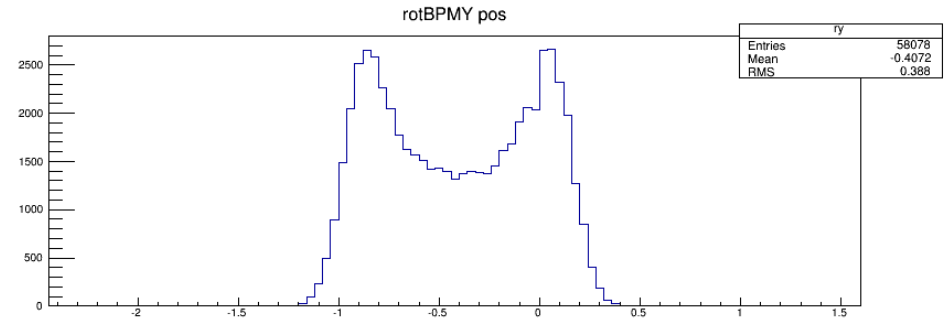
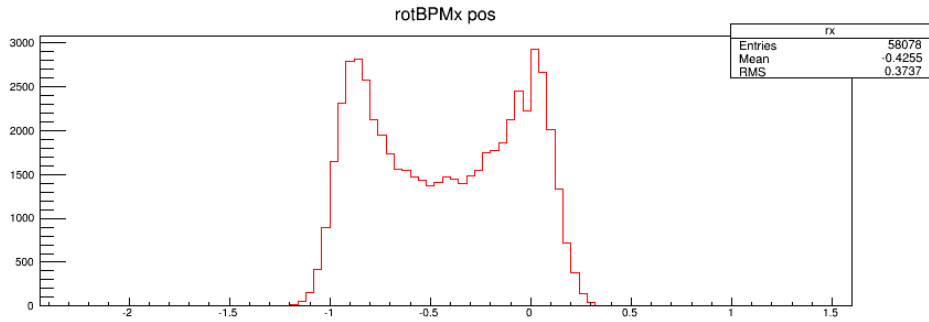
Run 23752



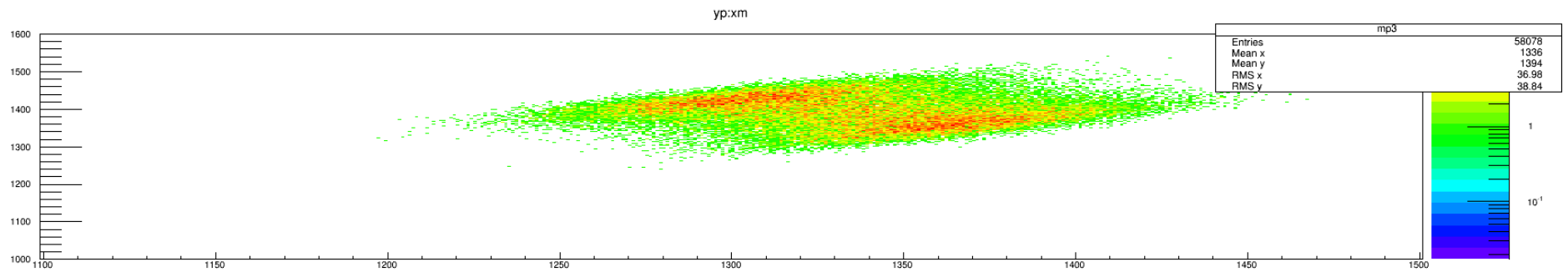
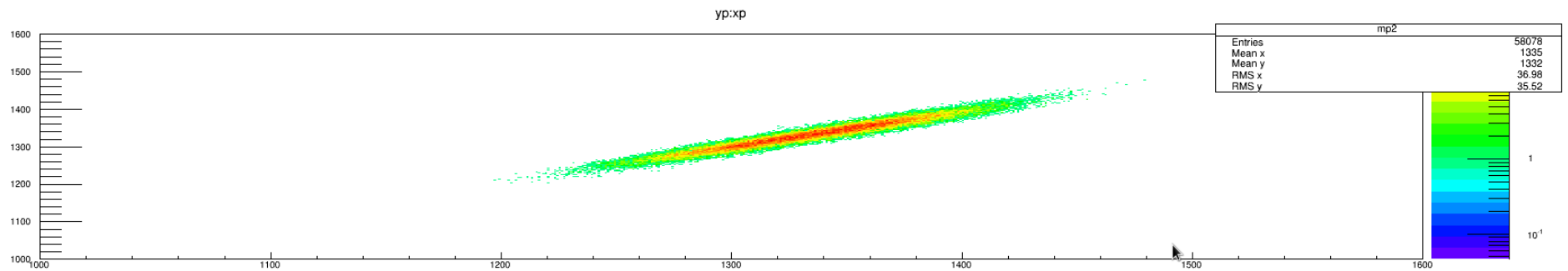
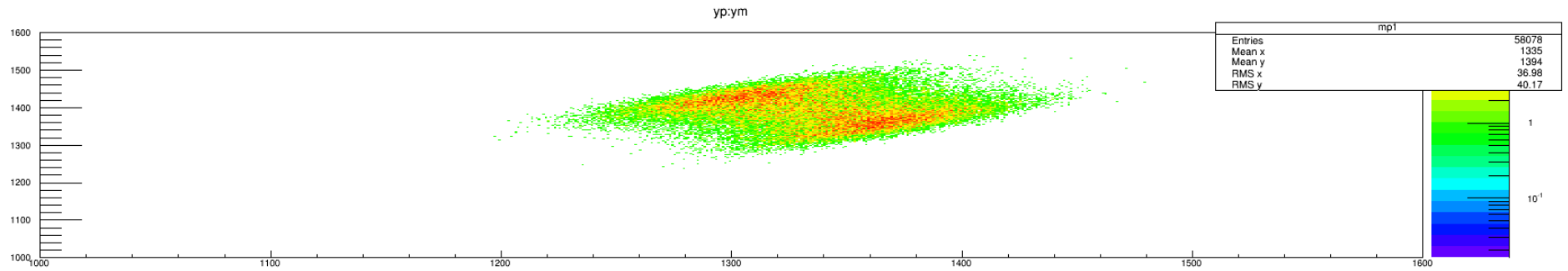
Run 466



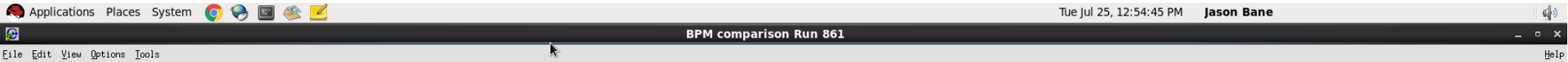
Run 466



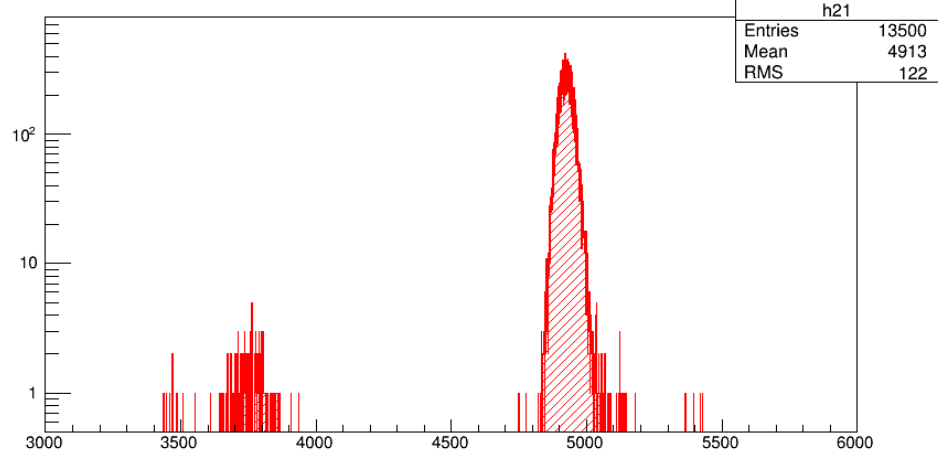
Run 466



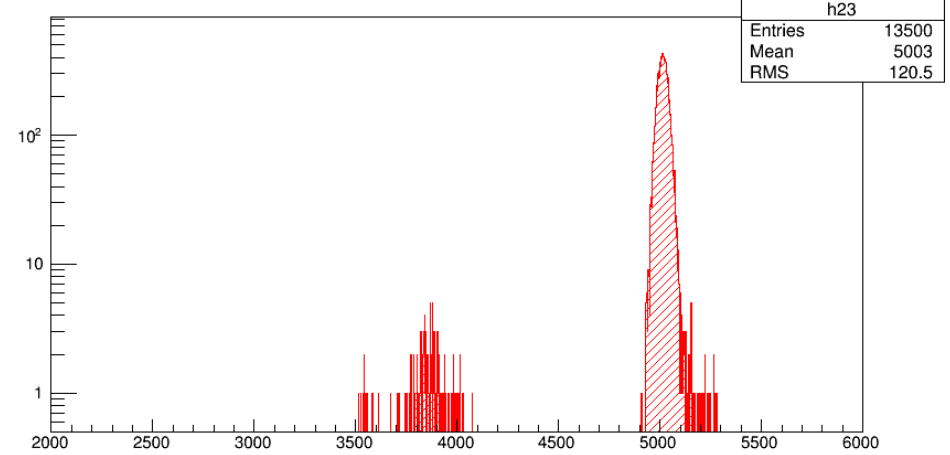
Run 861



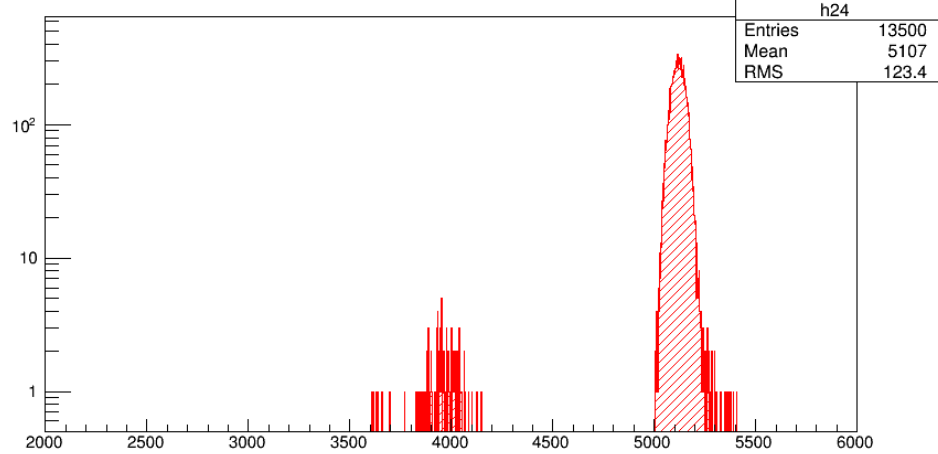
RrbGmp.BPMA.rawcur.1 {hac_bcm_average>=1}



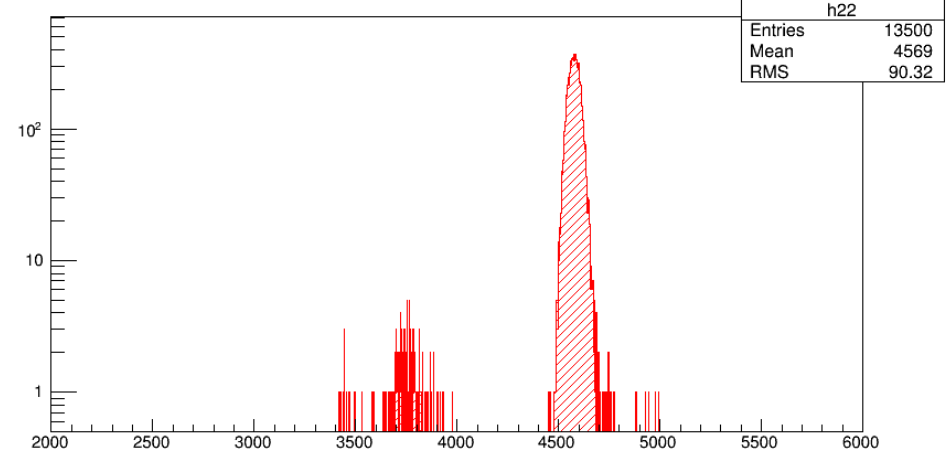
RrbGmp.BPMA.rawcur.3 {hac_bcm_average>=1}



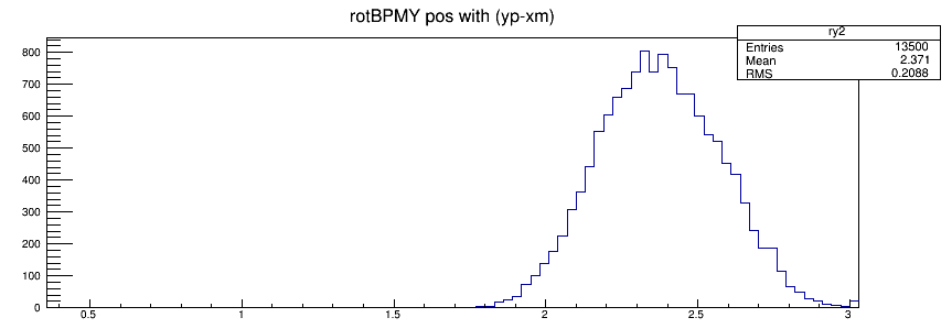
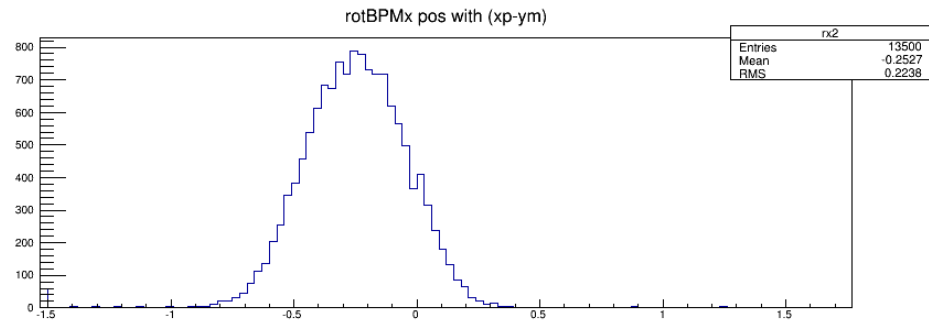
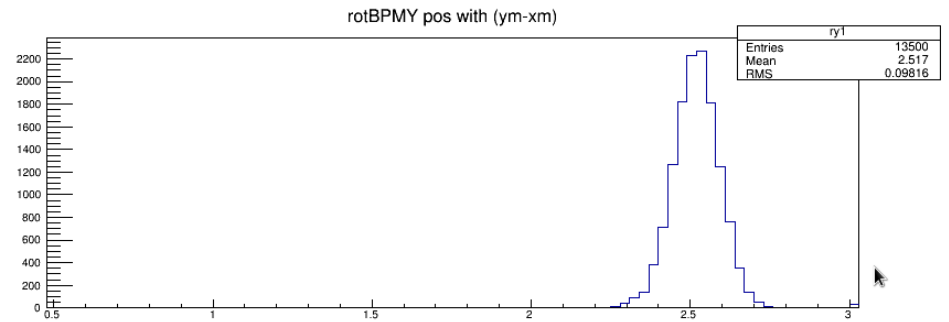
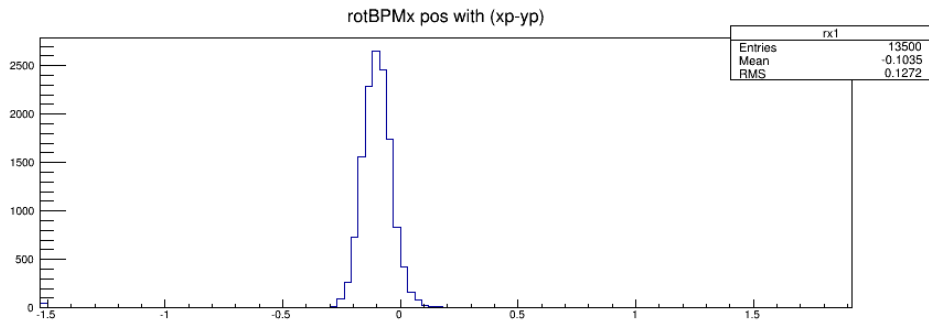
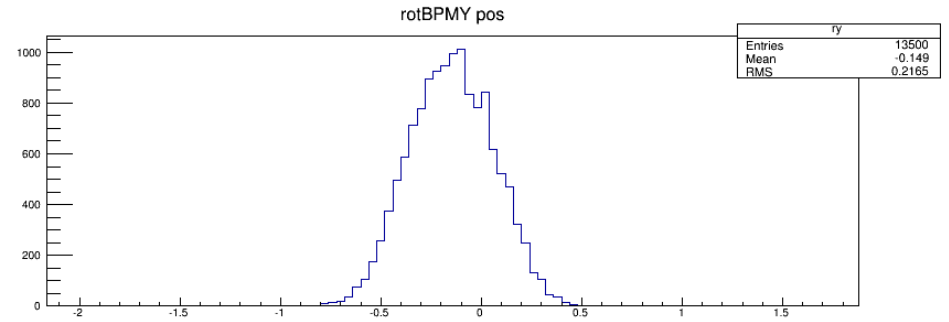
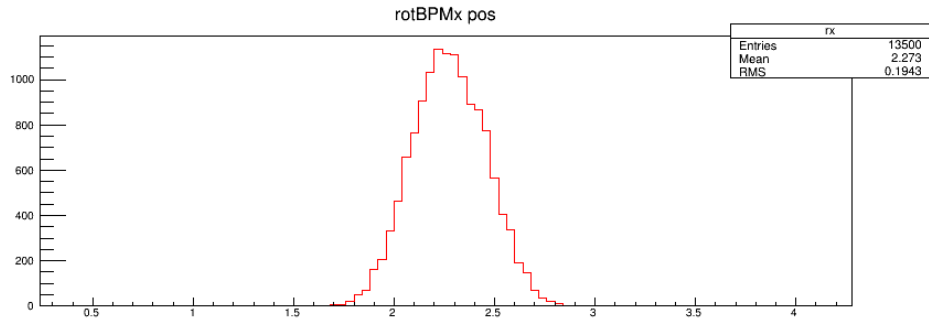
RrbGmp.BPMA.rawcur.4 {hac_bcm_average>=1}



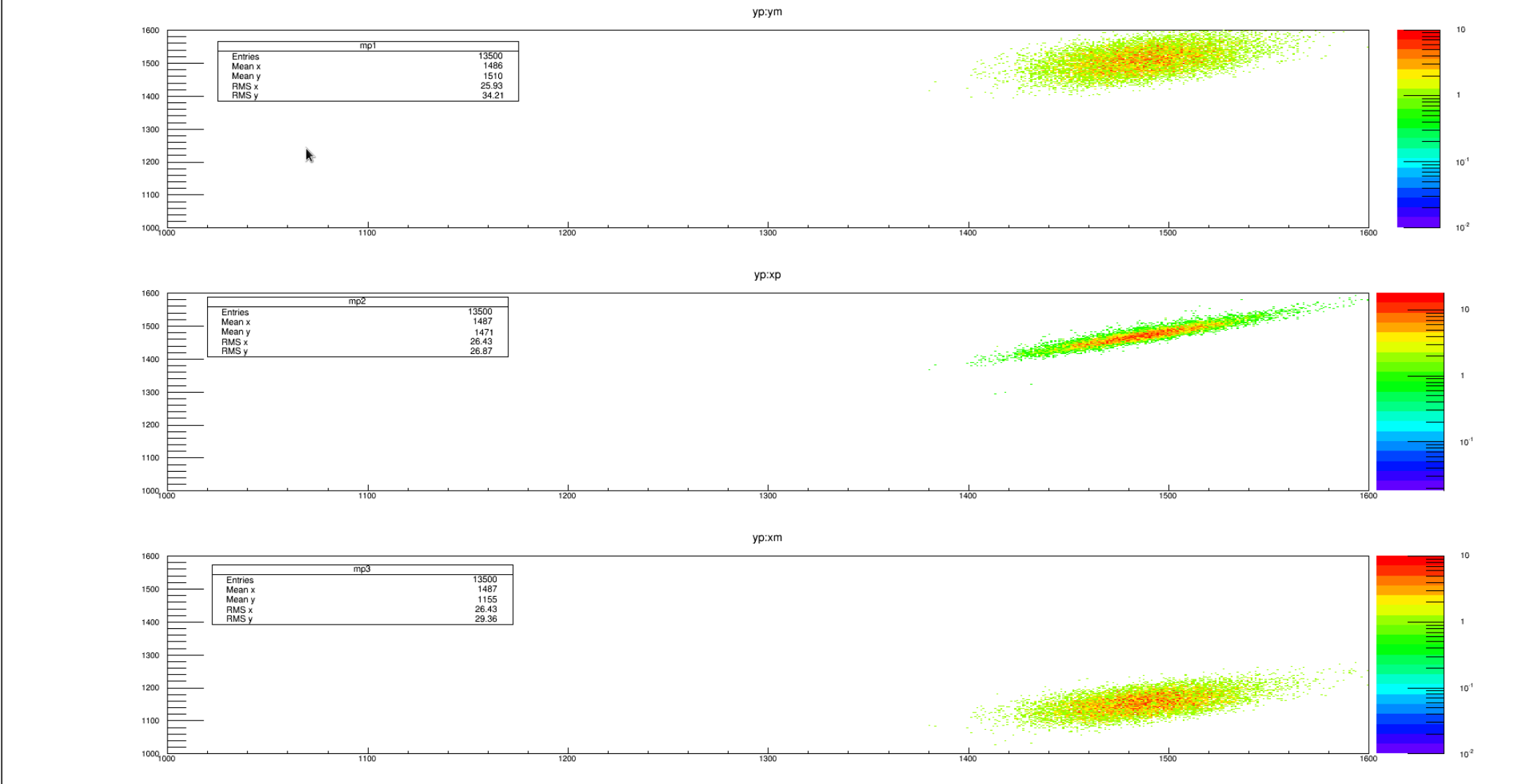
RrbGmp.BPMA.rawcur.2 {hac_bcm_average>=1}



Run 861

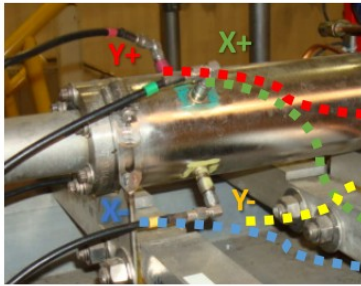


Run 861

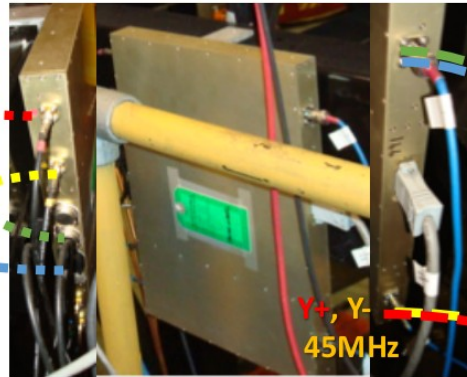


BPM signal path

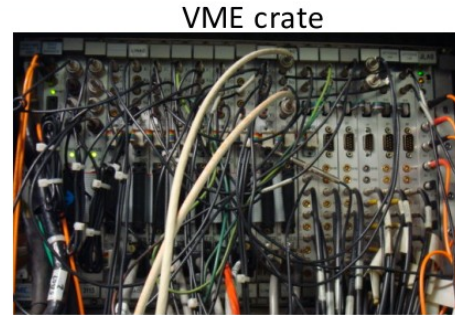
Stripline BPM
wire channels **1497MHz**



RF module:
Mixer downconverts to **45MHz**
Gains applied (low 10dB, high 32db)

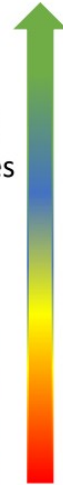


X+, X-, 45MHz

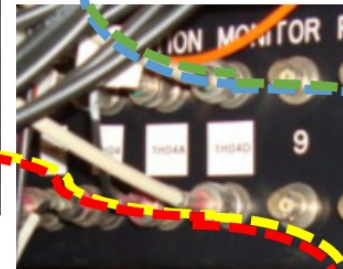


VME crate

Upstairs



Patch Panel



IF card
45MHz->analog

Xi
Xo
XY
Yo
Yi

Sample & Hold
Card- multiplexes



+X+
-X+
+X-
-X-
+Y+
-Y+
+Y-
-Y-

To adc -> software
For accelerator readout

Issues

One of the fans on the VME crate has malfunctioned. This fan cools both the IF card and the S&H modules.

This could possibly explain why the bpms “were fixed” after the IOC restart.

<https://logbooks.jlab.org/entry/3463099>