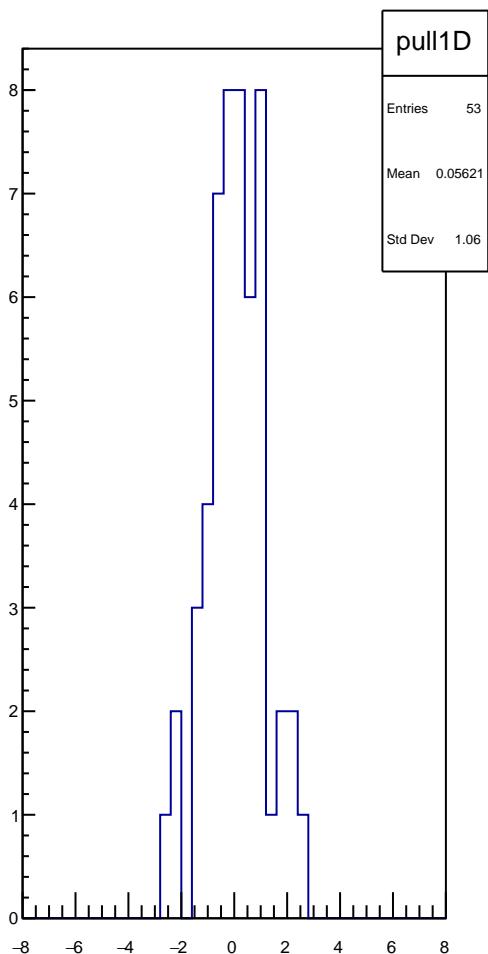
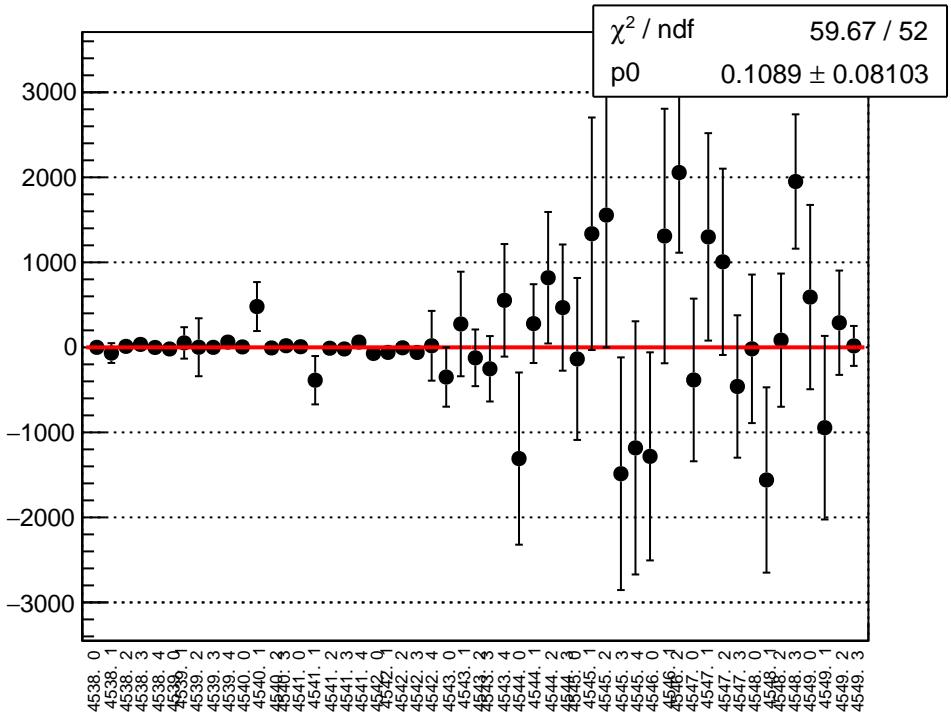
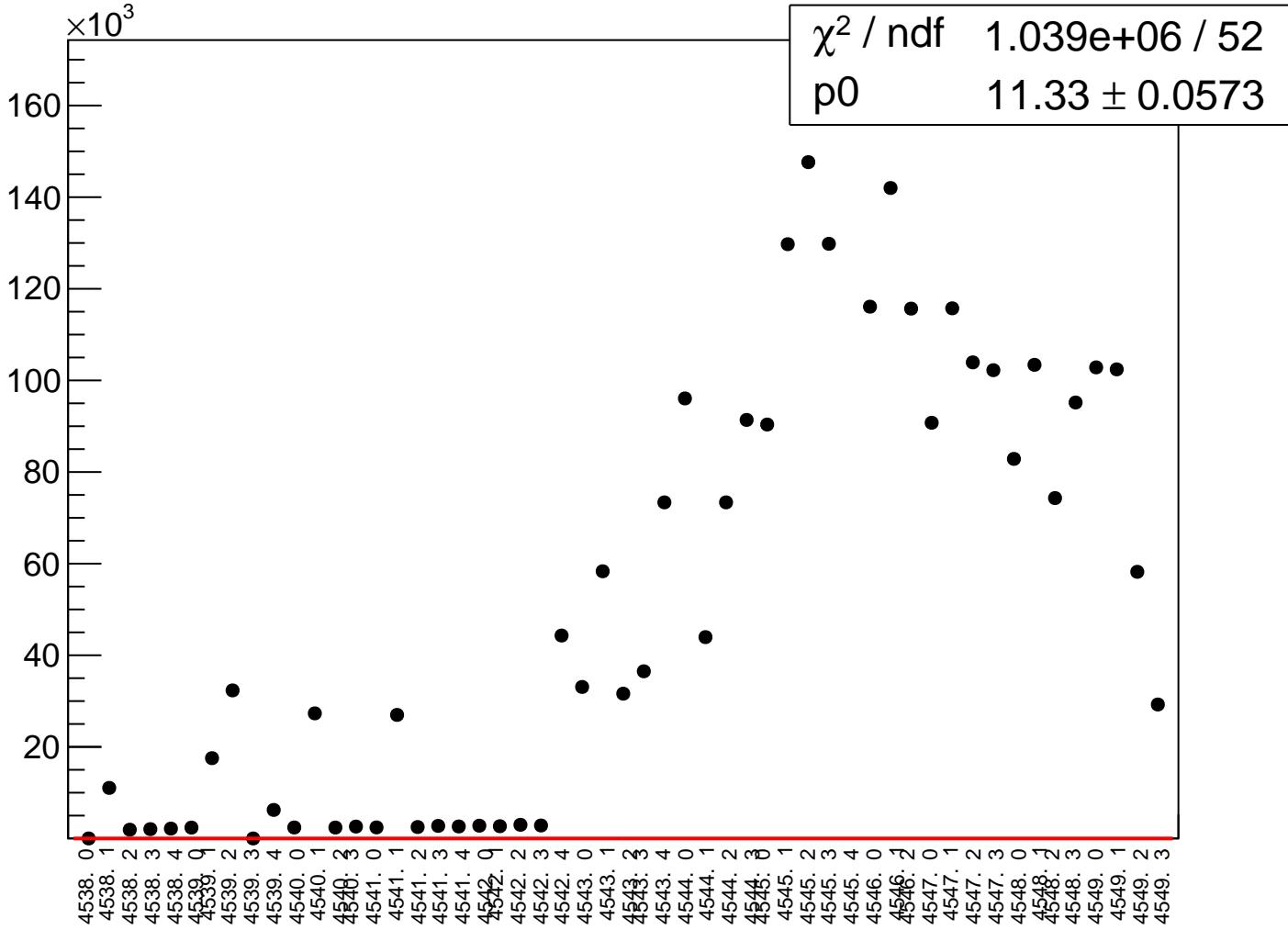


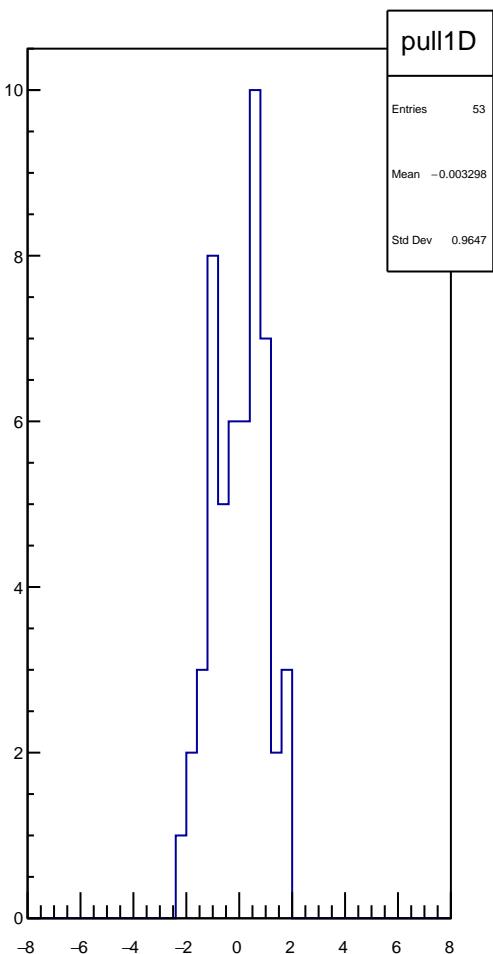
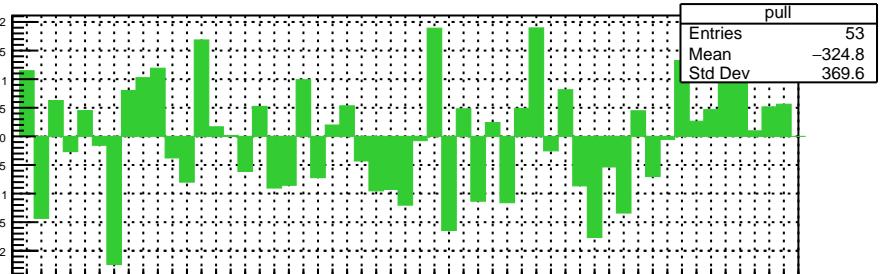
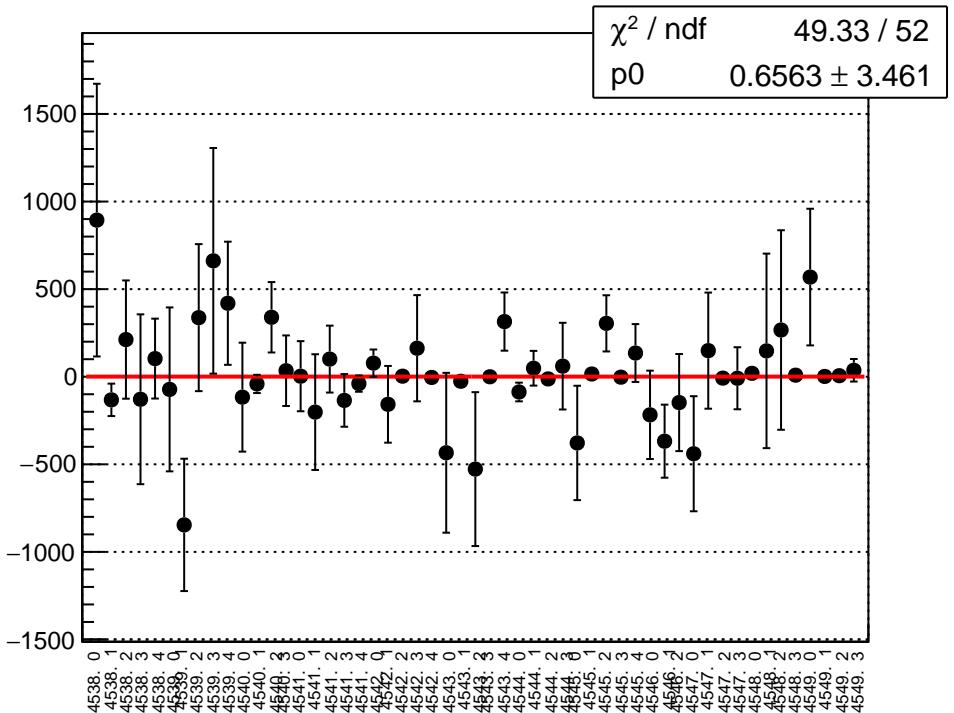
# diff\_cav4bX\_mean vs run



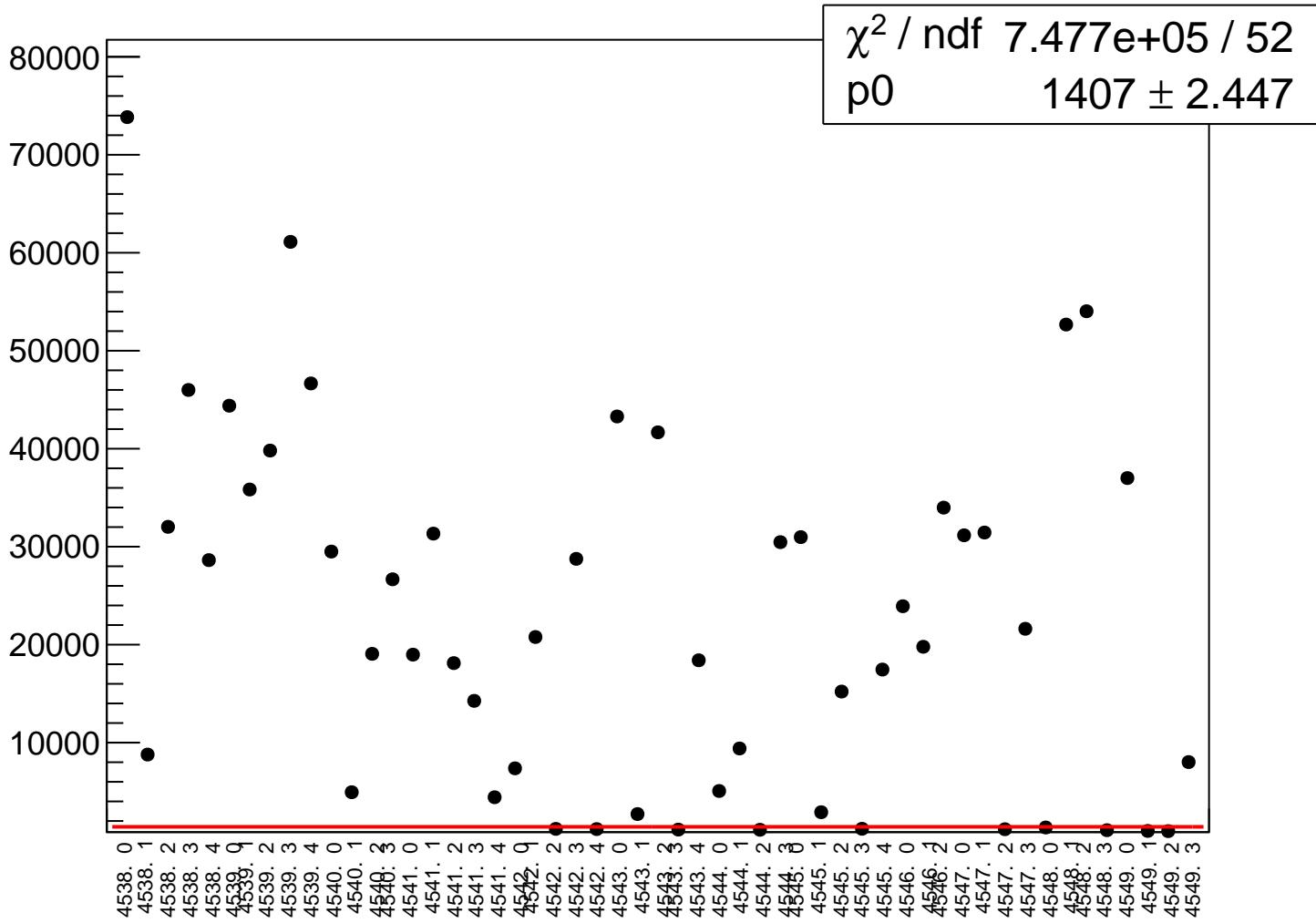
# diff\_cav4bX\_rms vs run



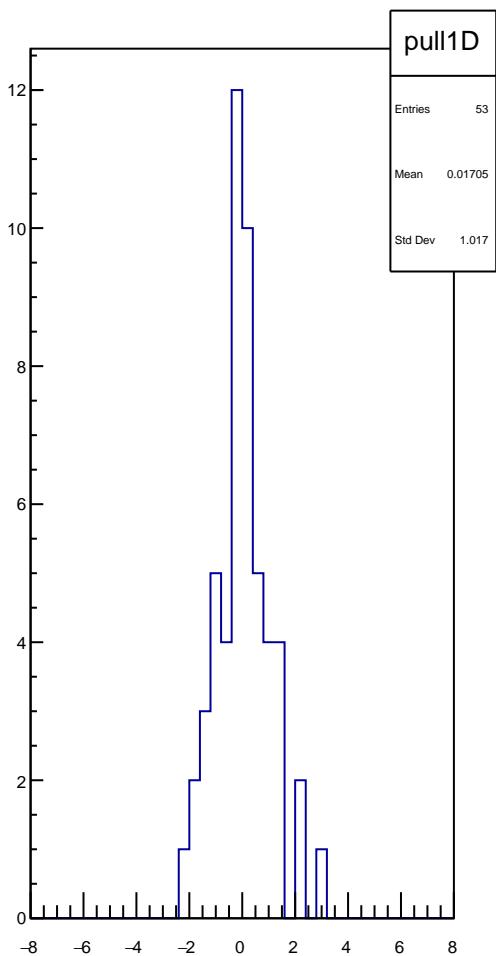
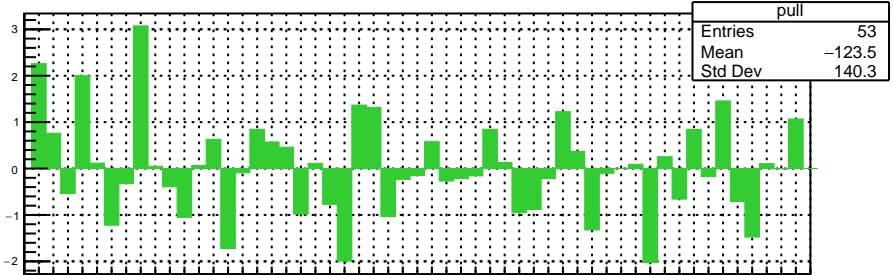
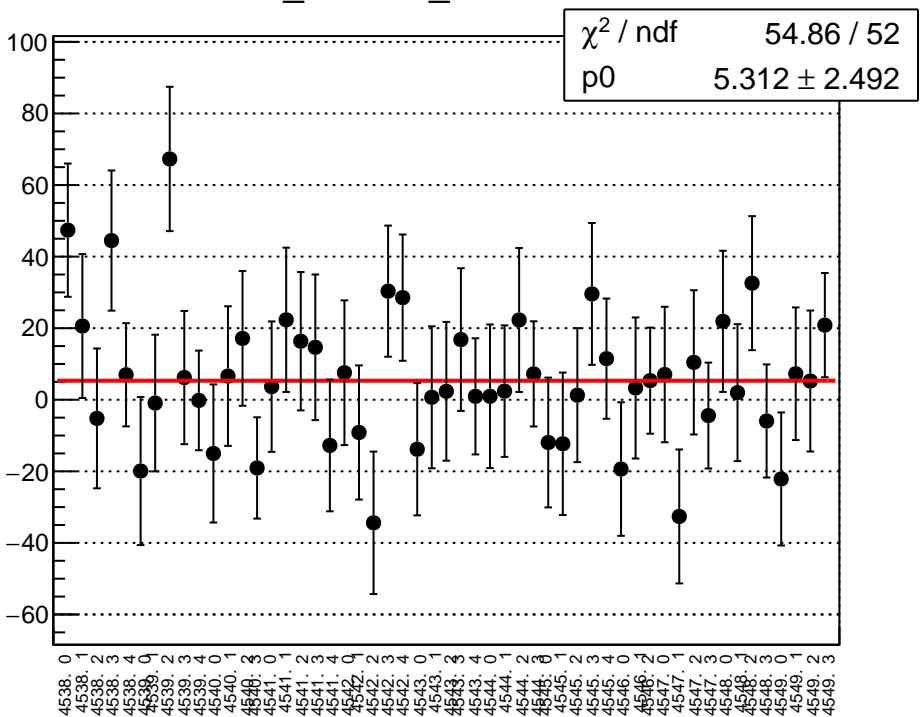
# diff\_cav4bY\_mean vs run



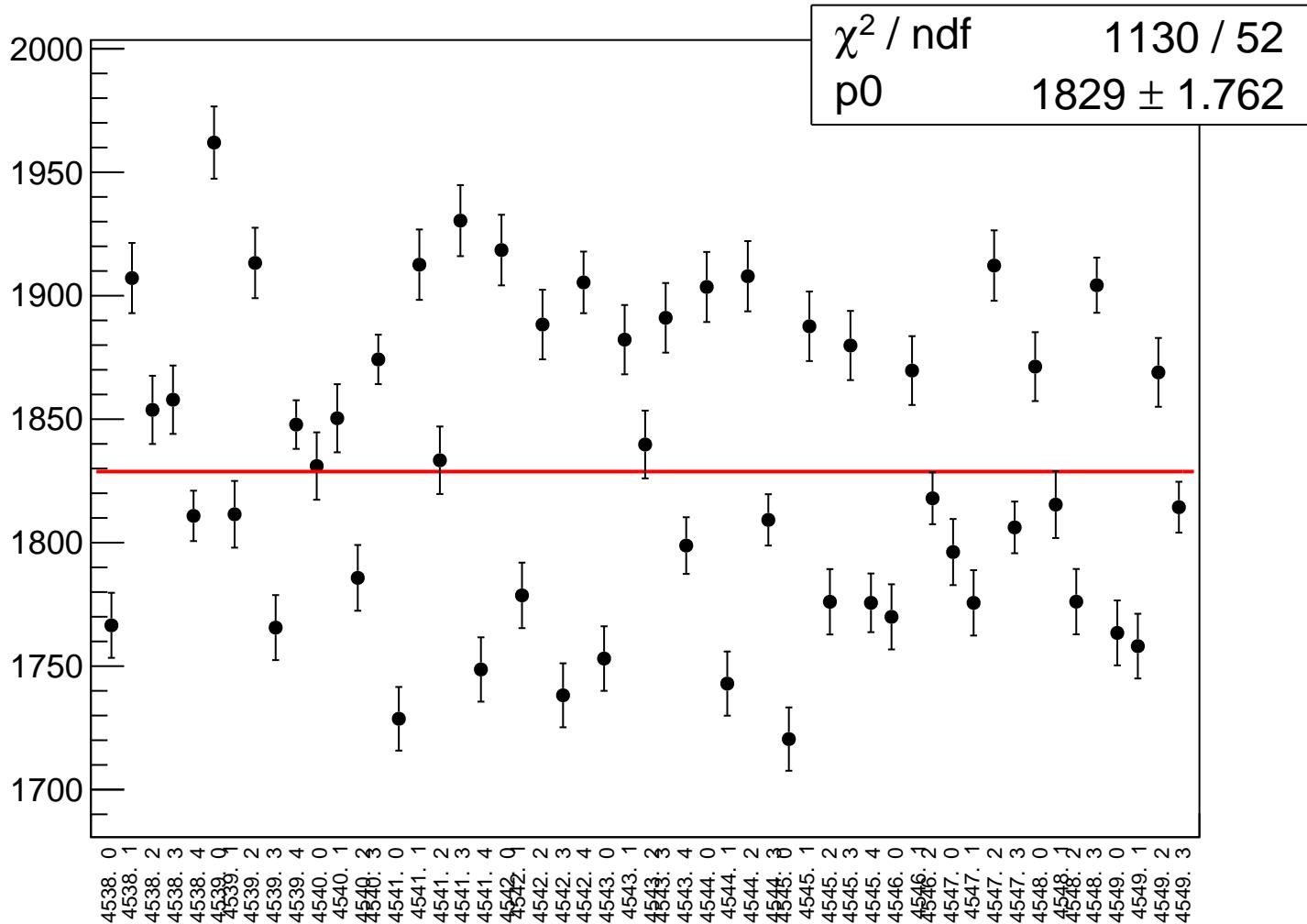
# diff\_cav4bY\_rms vs run



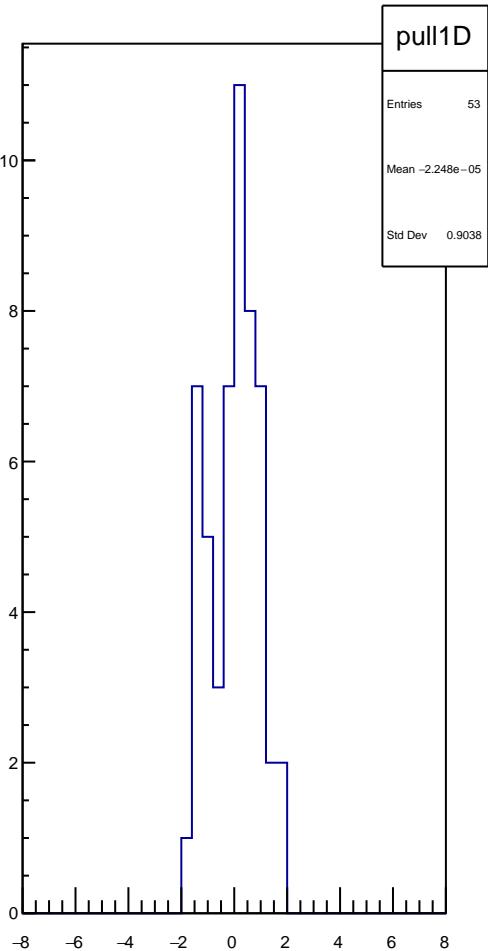
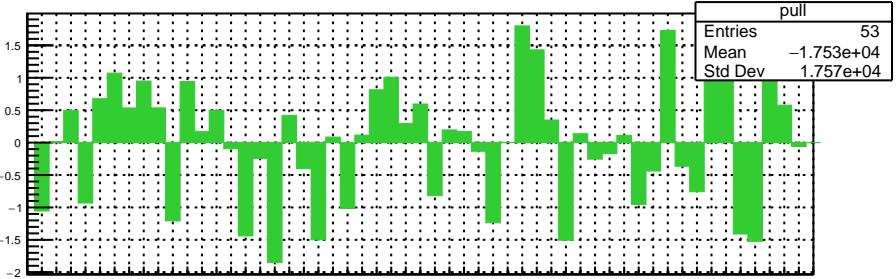
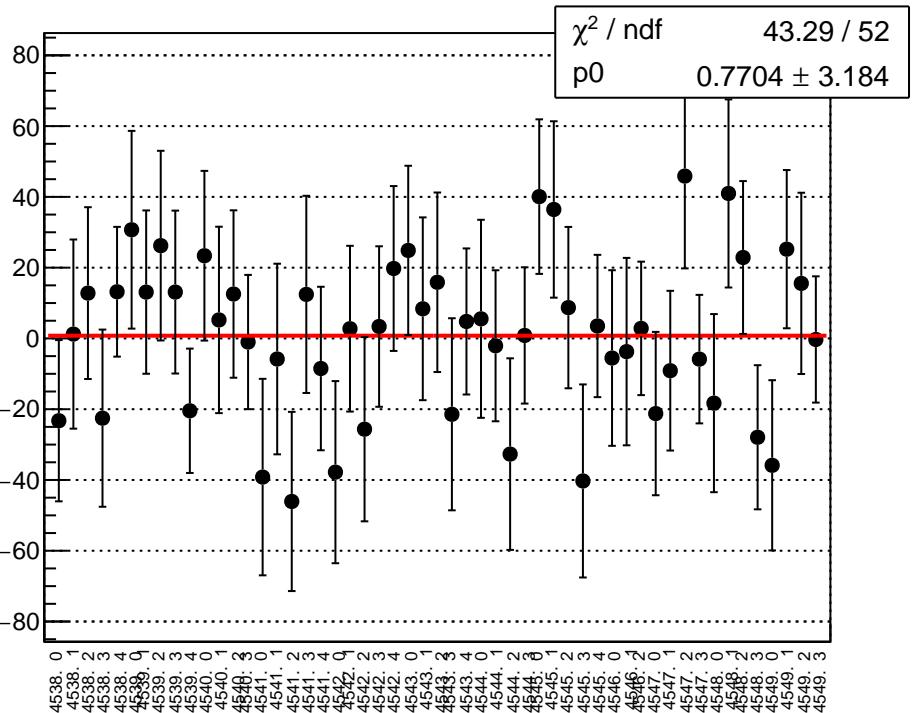
# diff\_cav4cX\_mean vs run



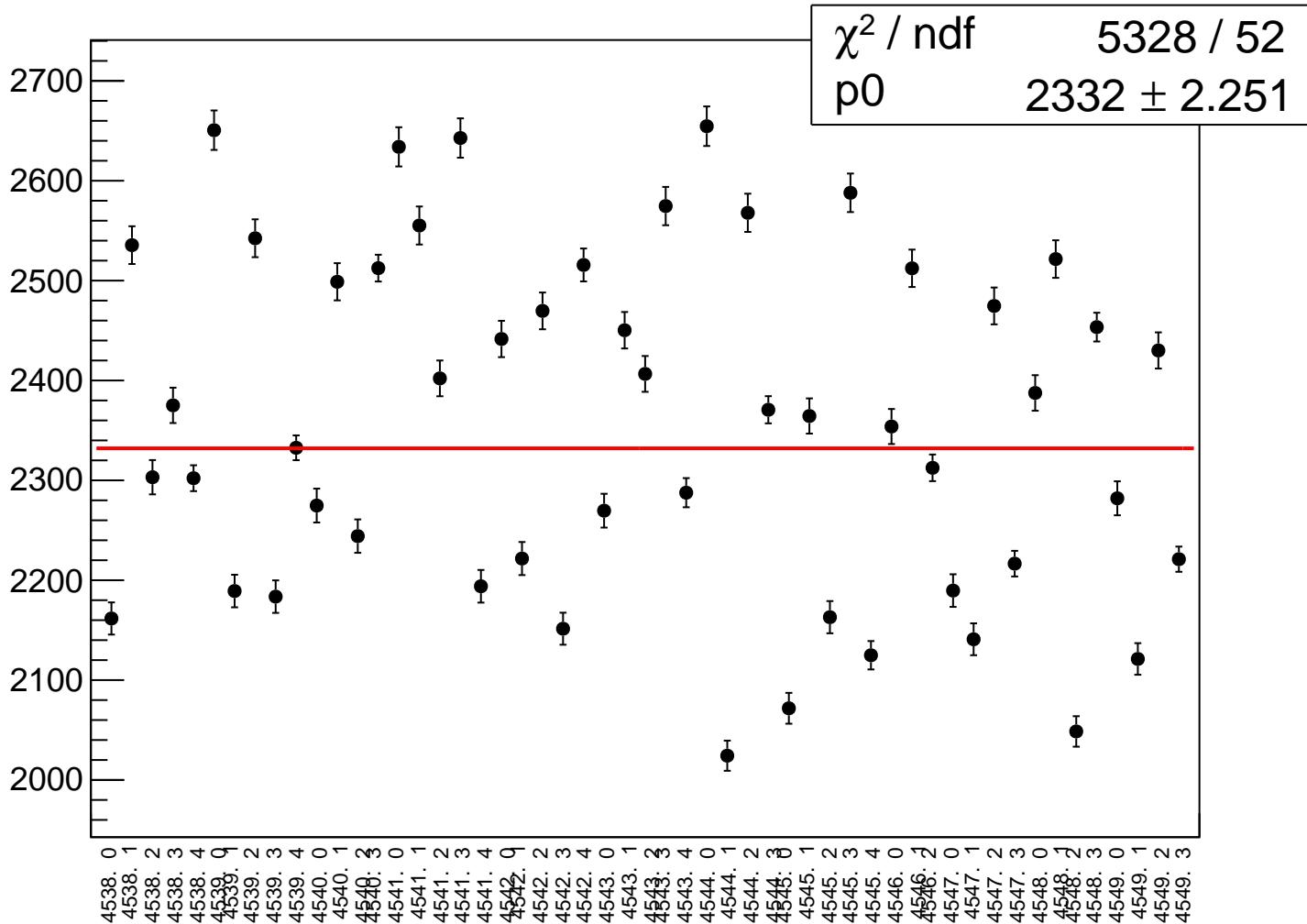
# diff\_cav4cX\_rms vs run



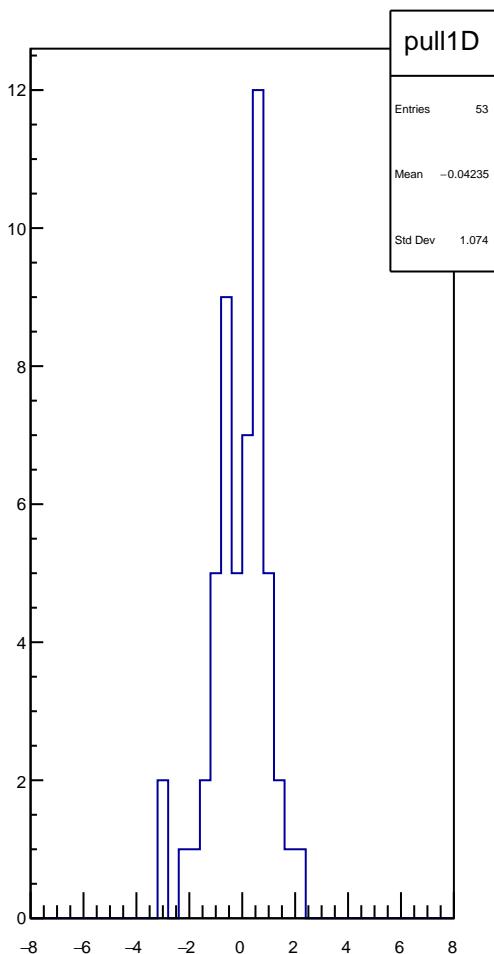
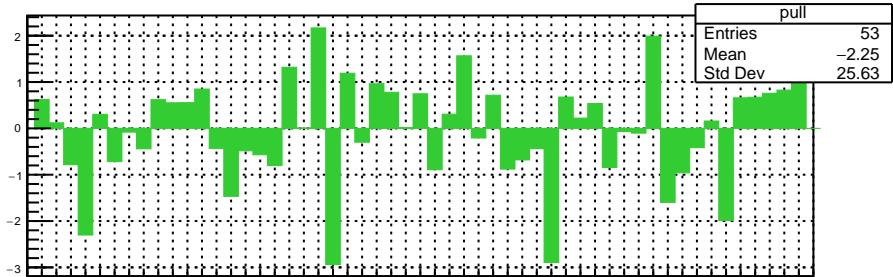
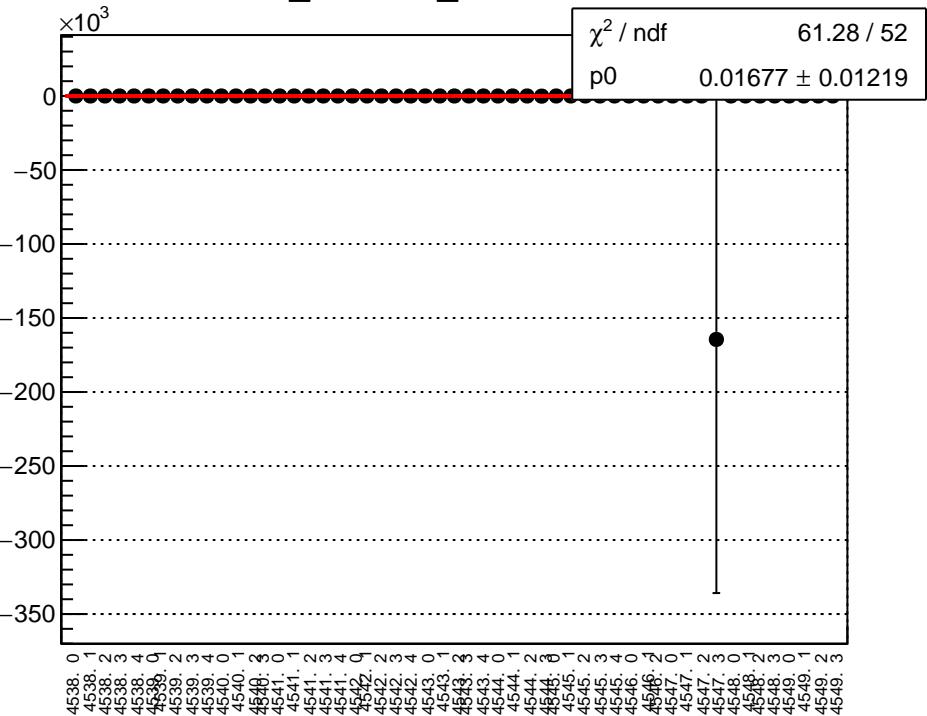
# diff\_cav4cY\_mean vs run



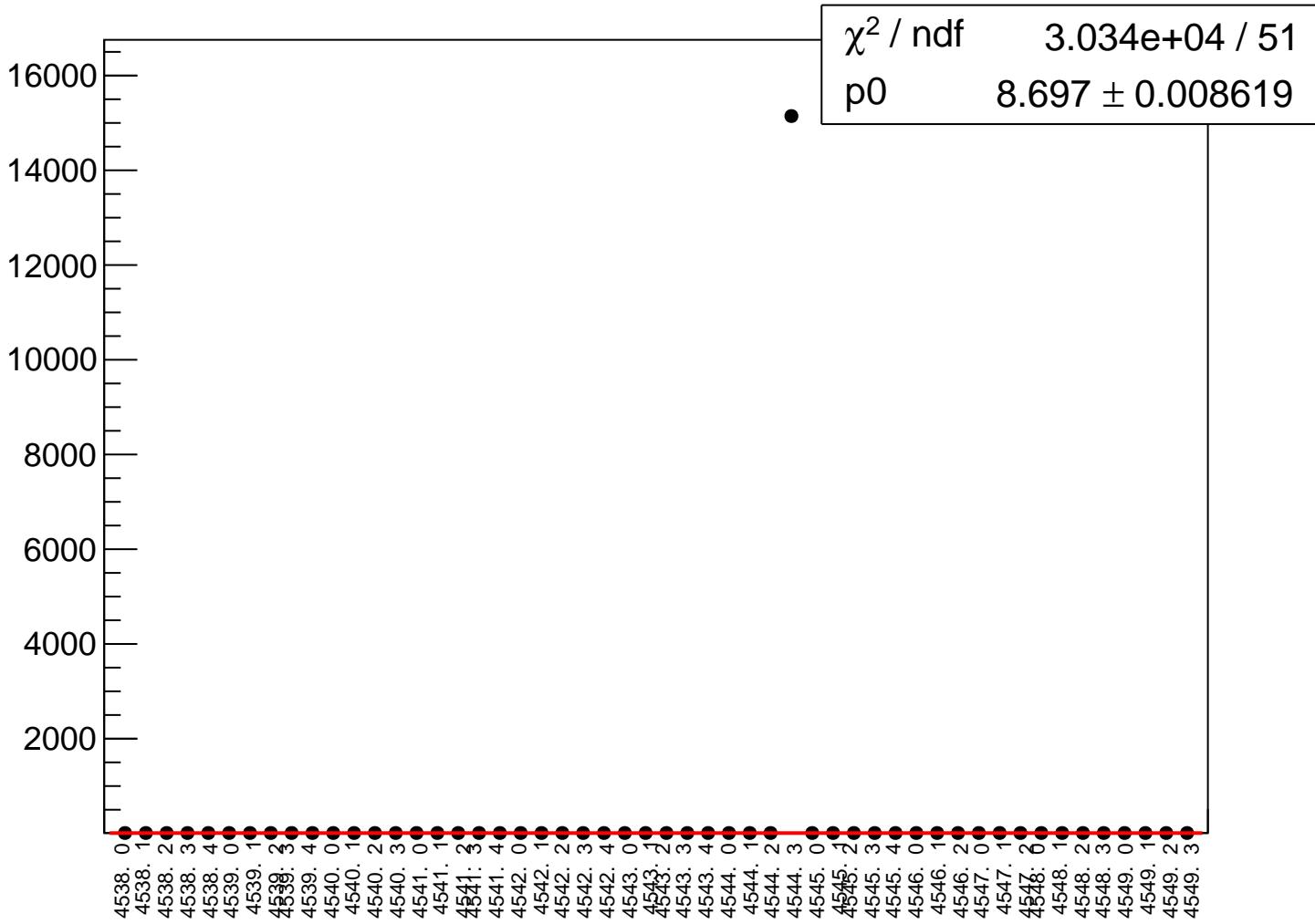
# diff\_cav4cY\_rms vs run



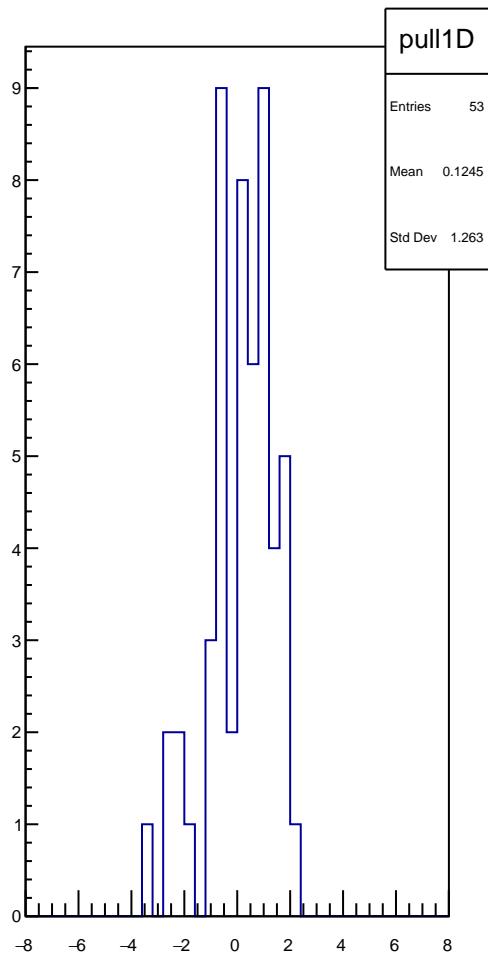
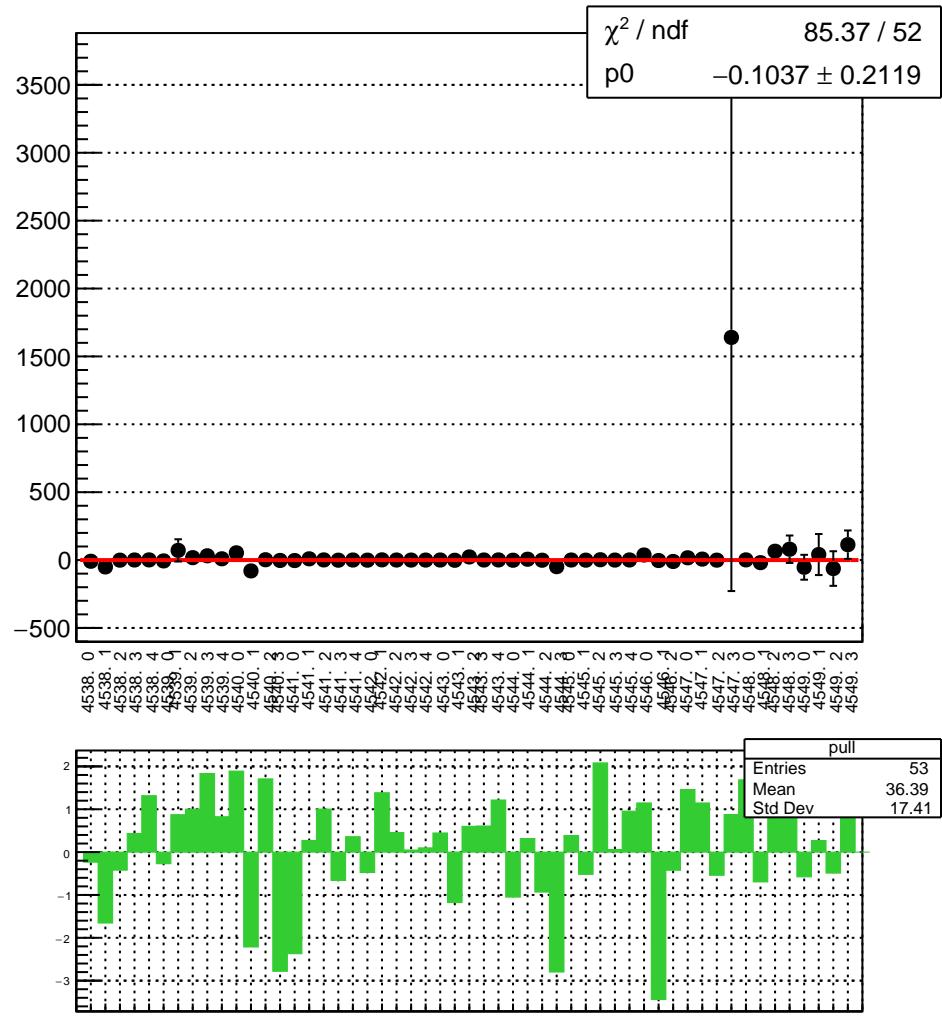
# diff\_cav4dX\_mean vs run



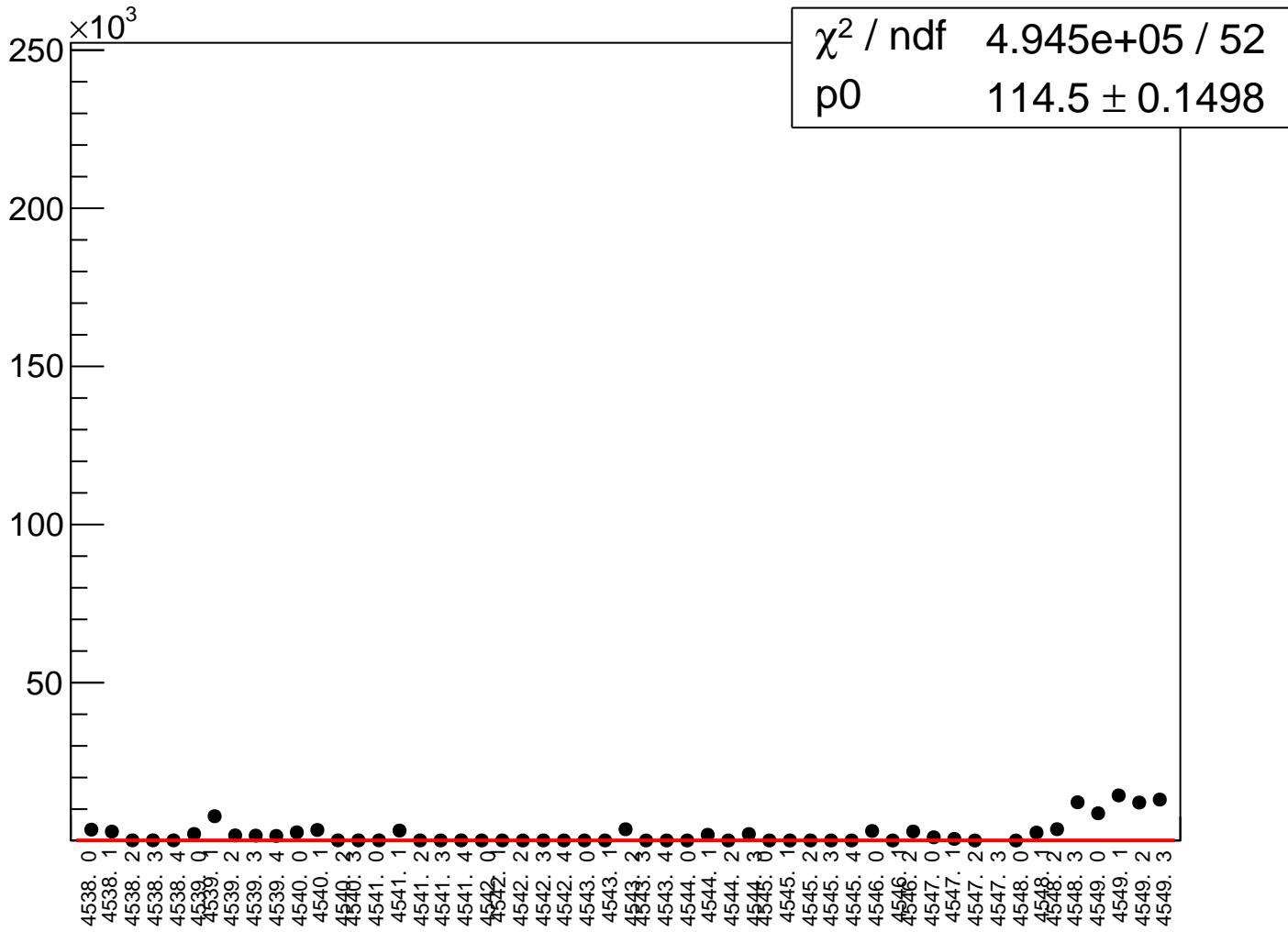
# diff\_cav4dX\_rms vs run

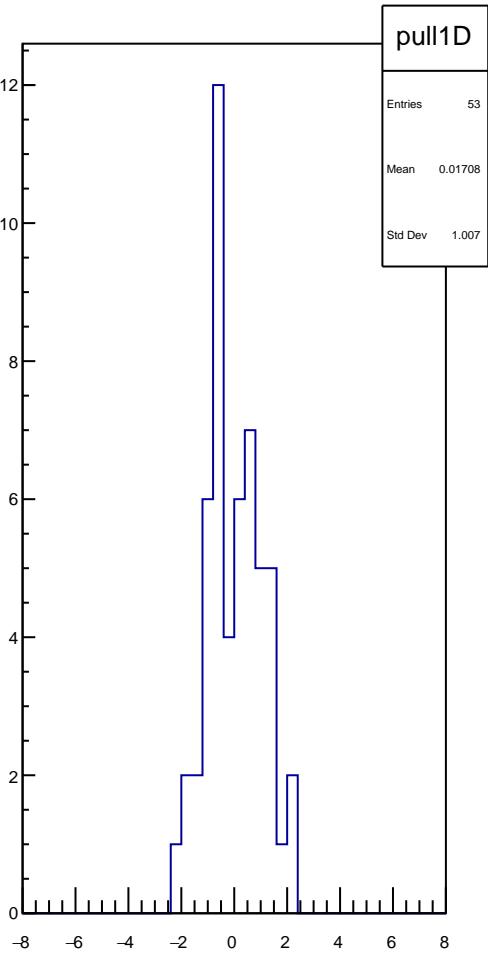
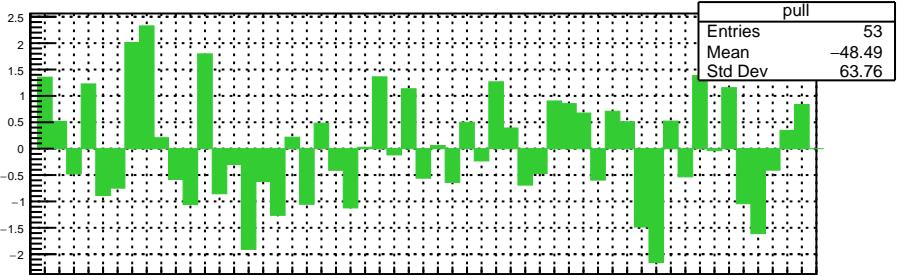
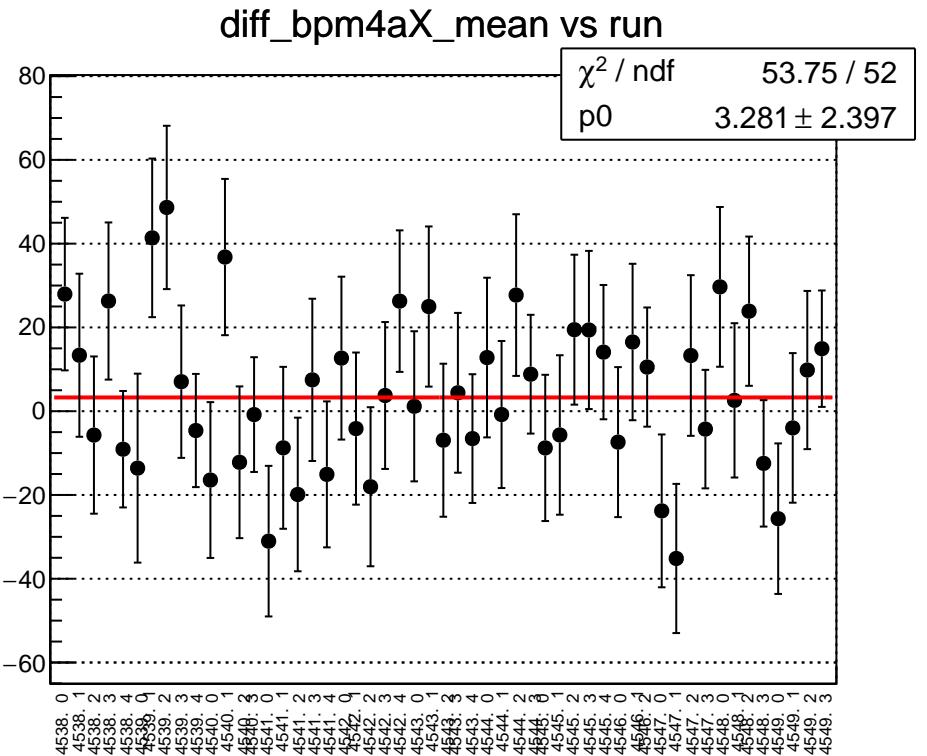


# diff\_cav4dY\_mean vs run

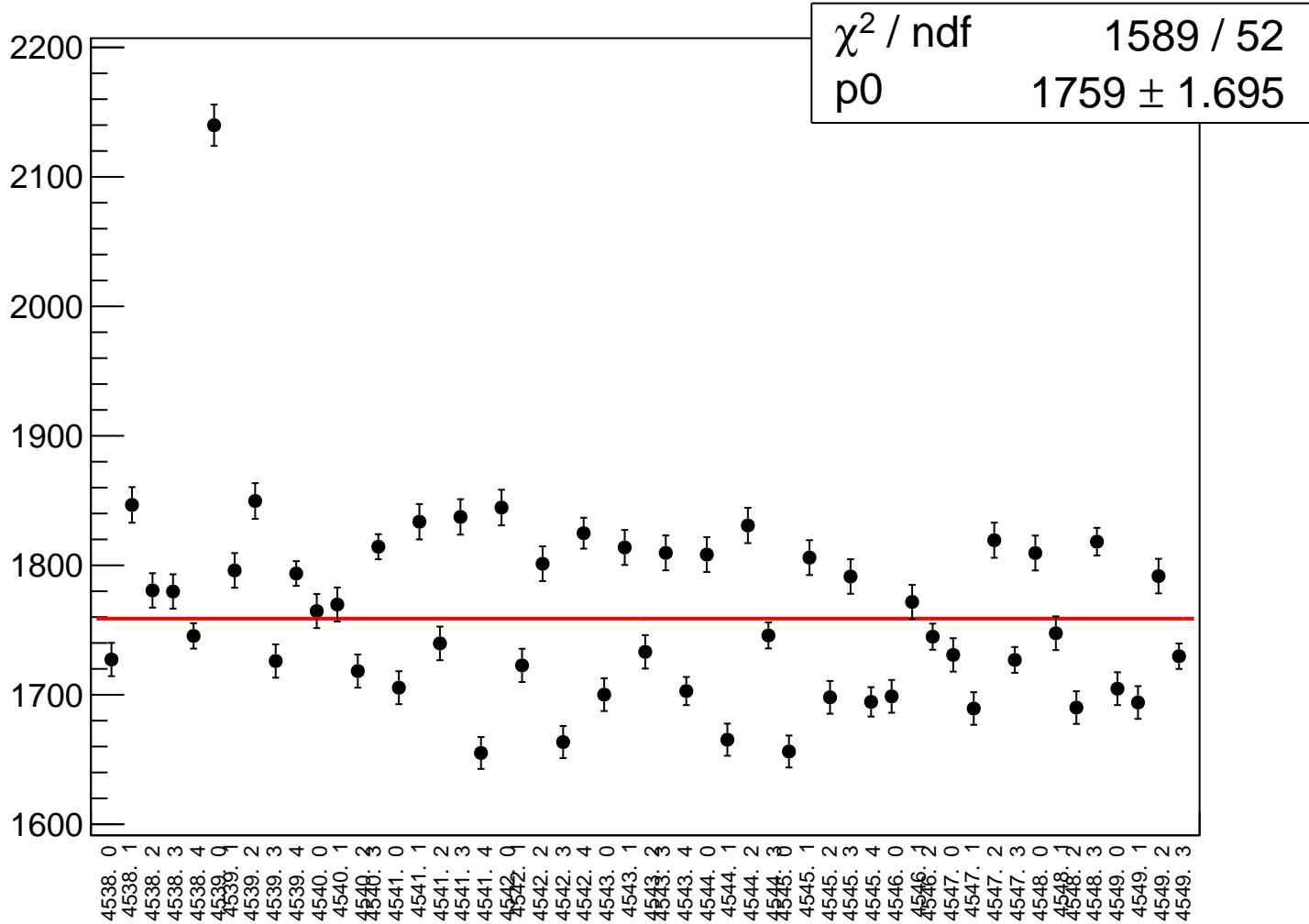


# diff\_cav4dY\_rms vs run

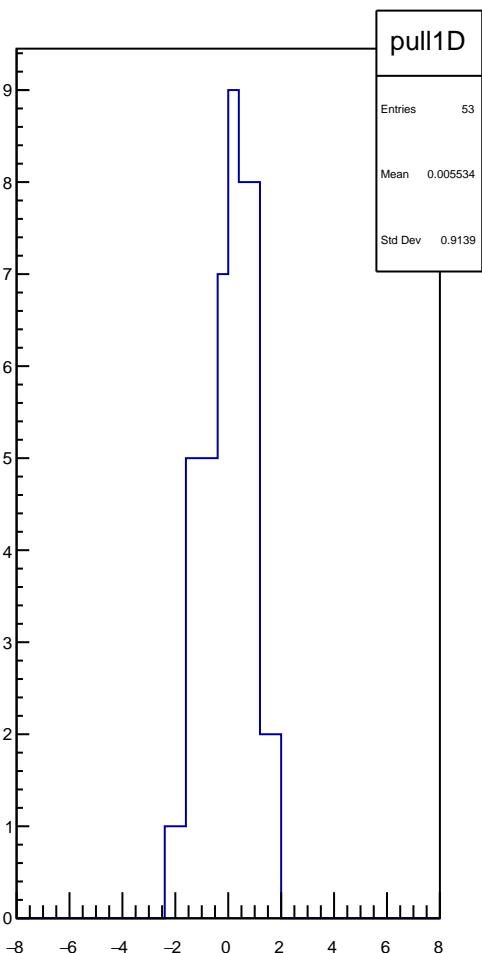
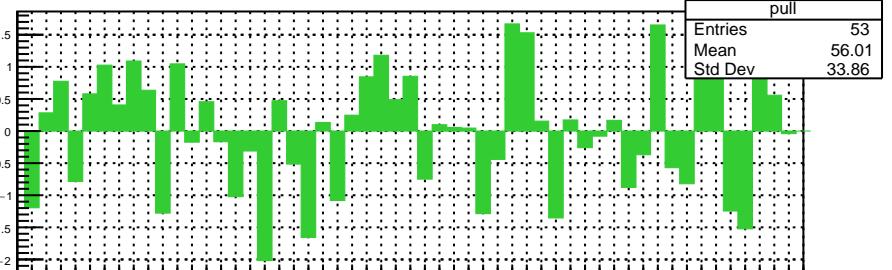
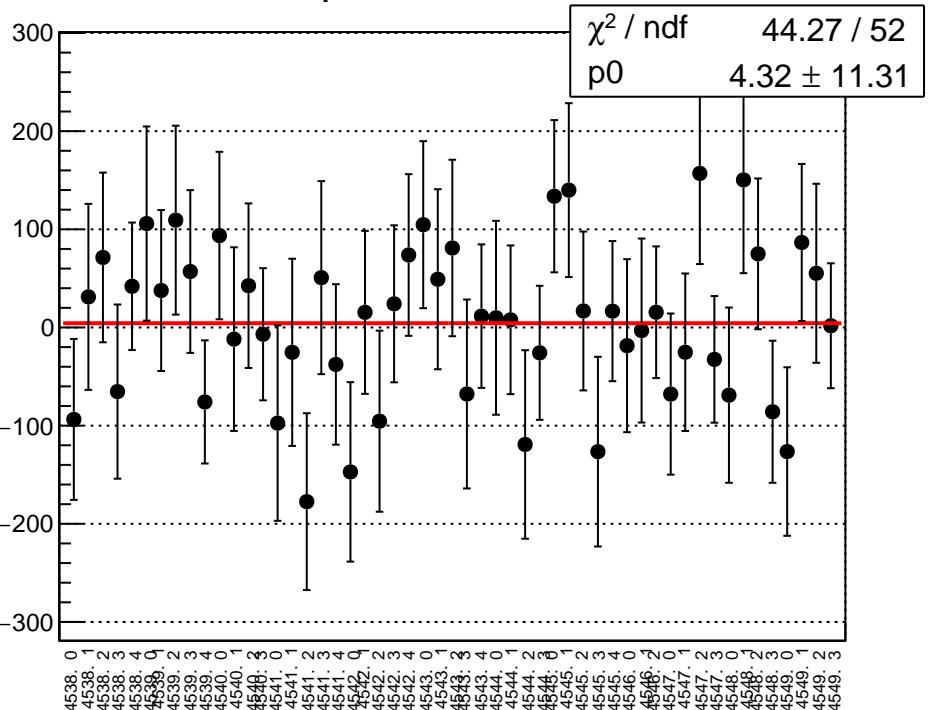




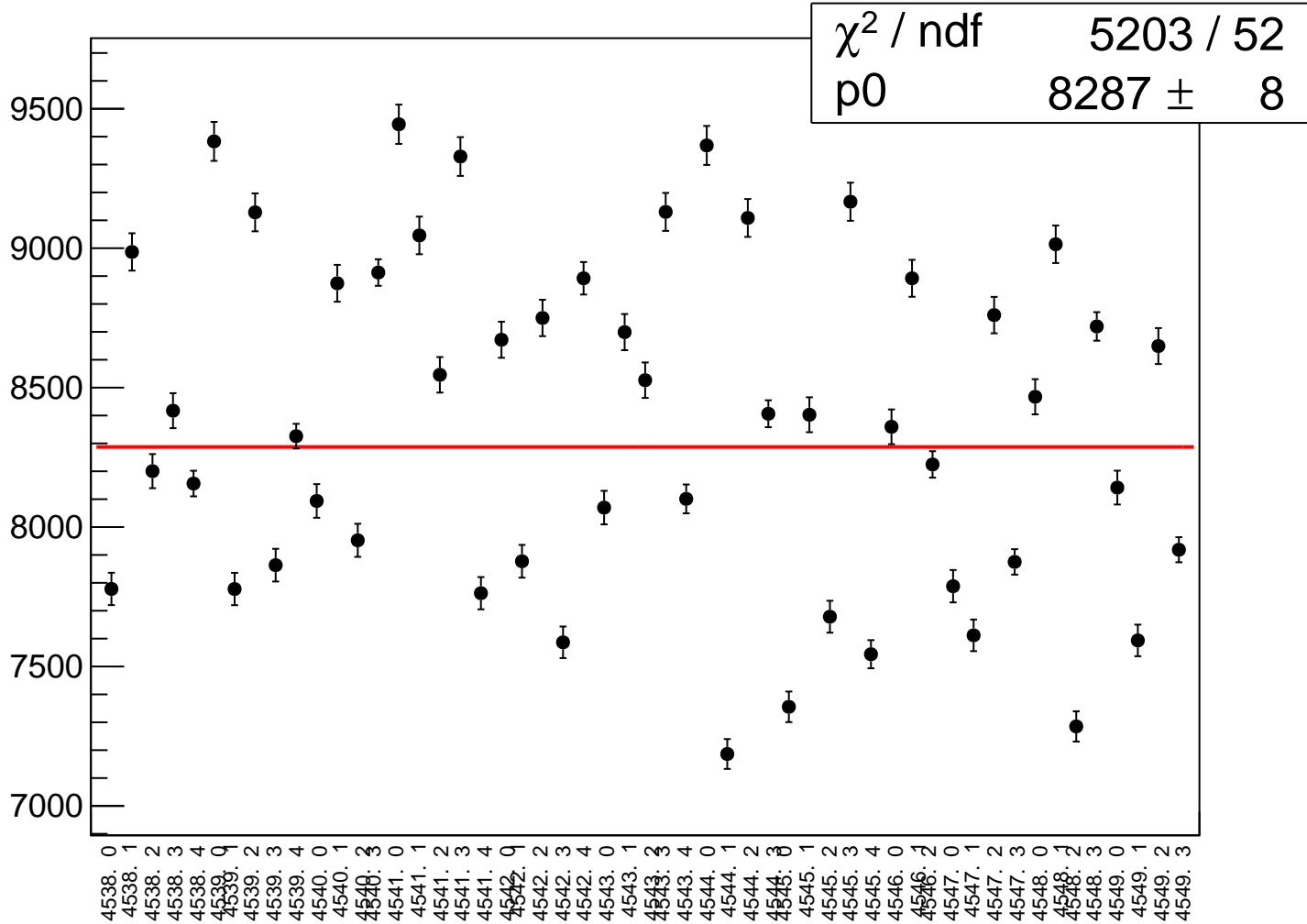
# diff\_bpm4aX\_rms vs run



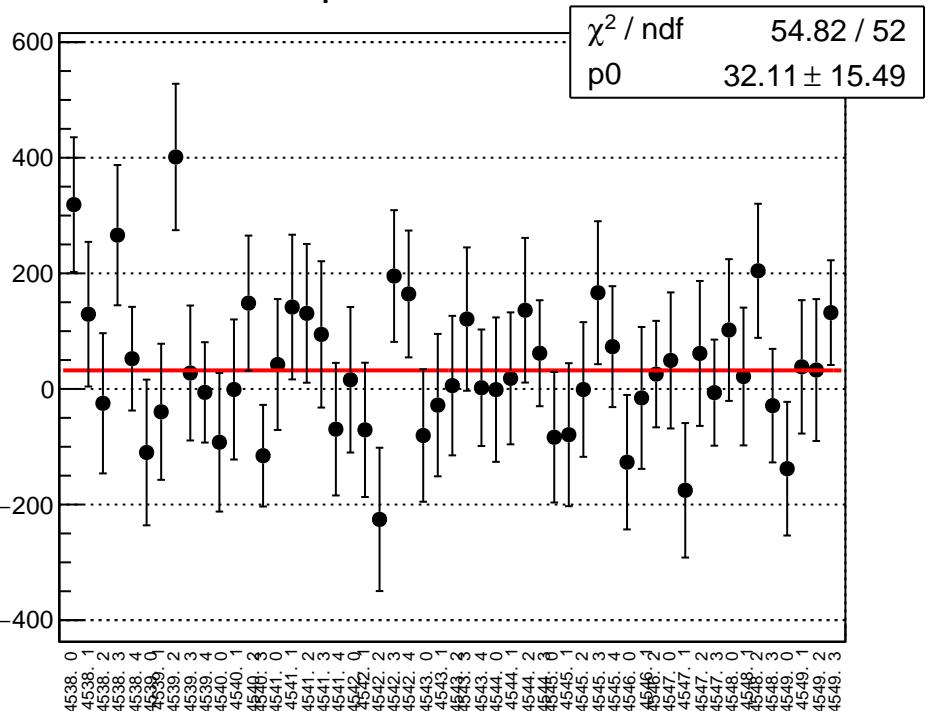
# diff\_bpm4aY\_mean vs run



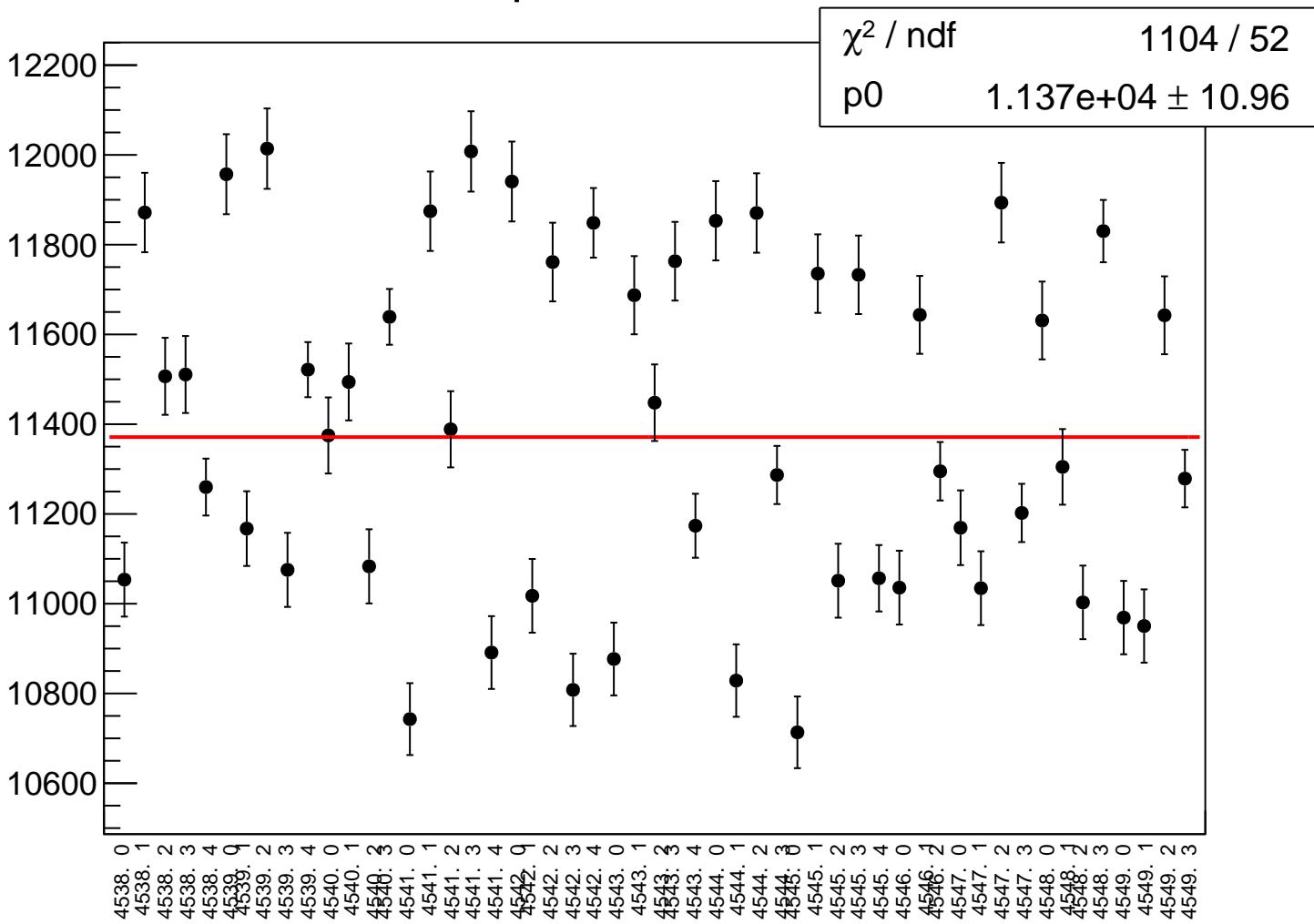
# diff\_bpm4aY\_rms vs run



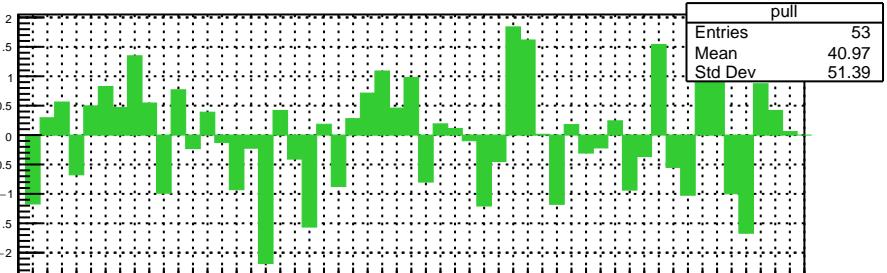
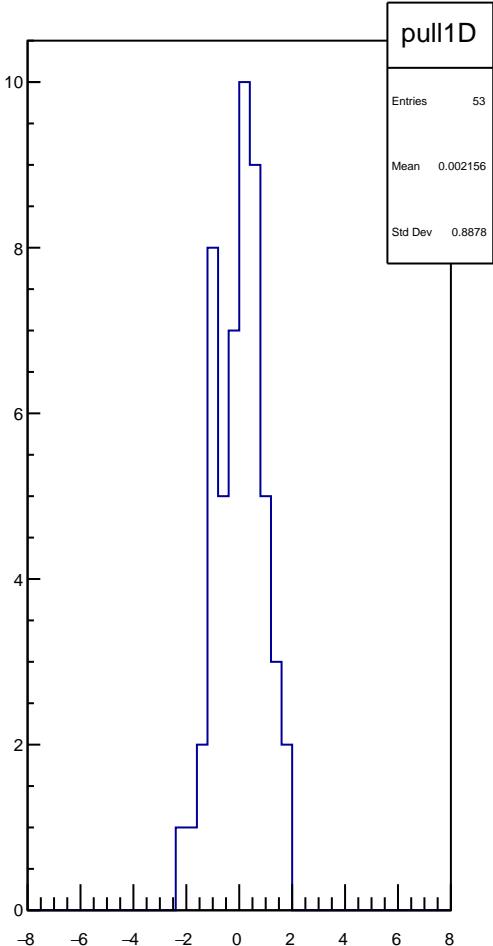
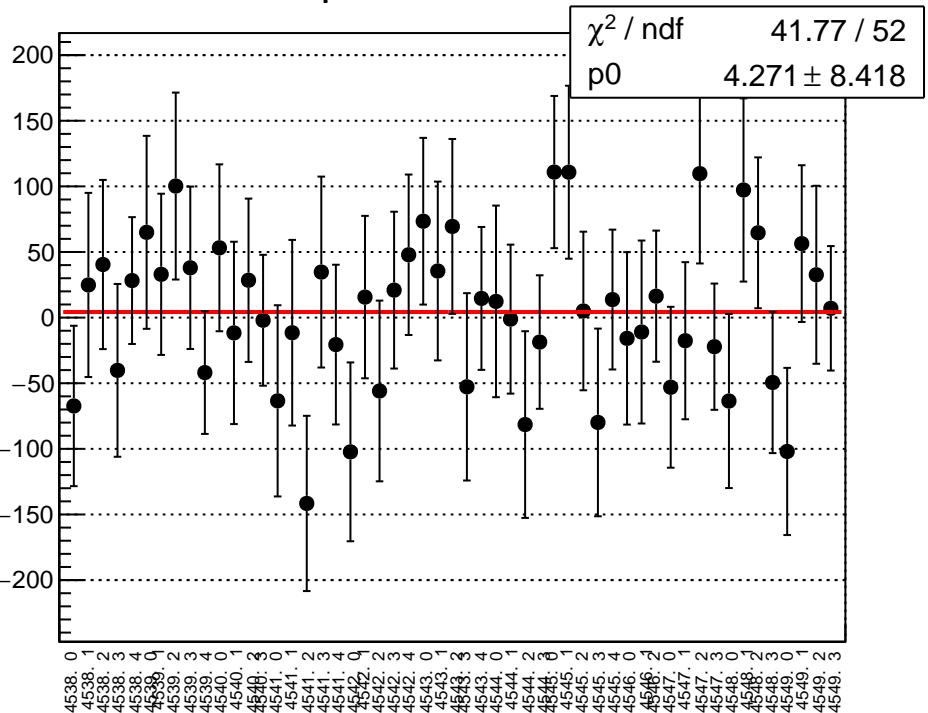
# diff\_bpm4eX\_mean vs run



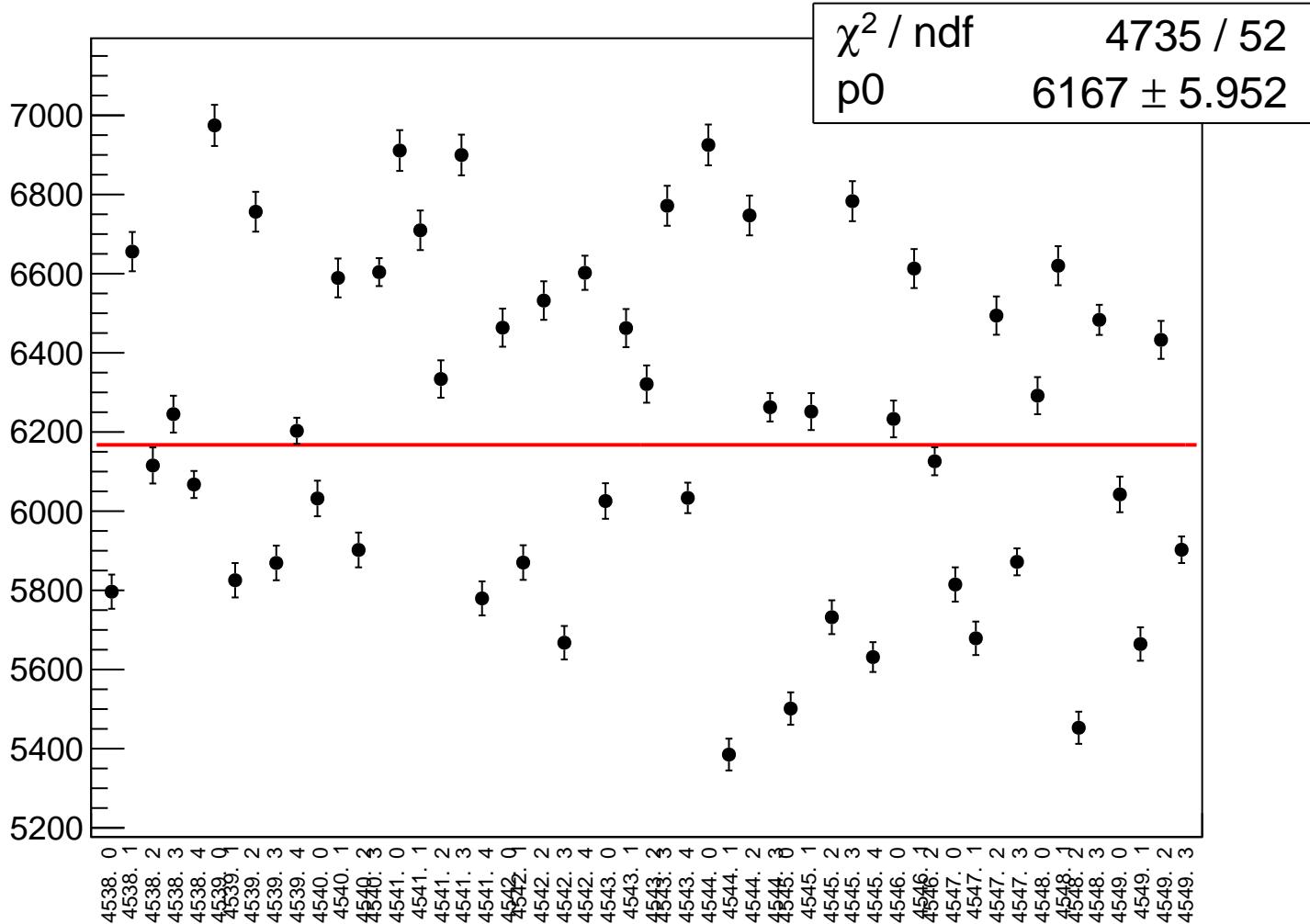
# diff\_bpm4eX\_rms vs run



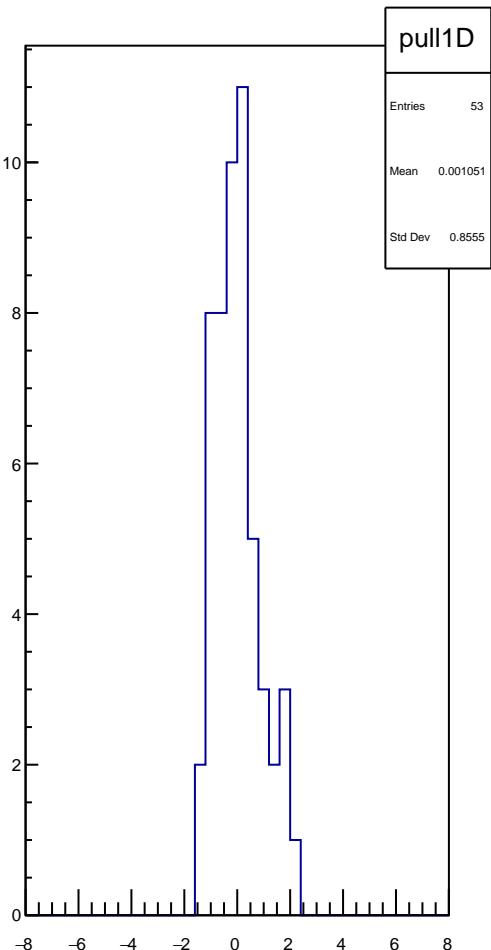
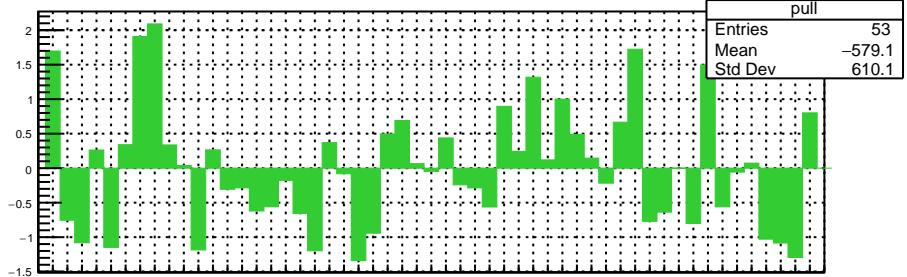
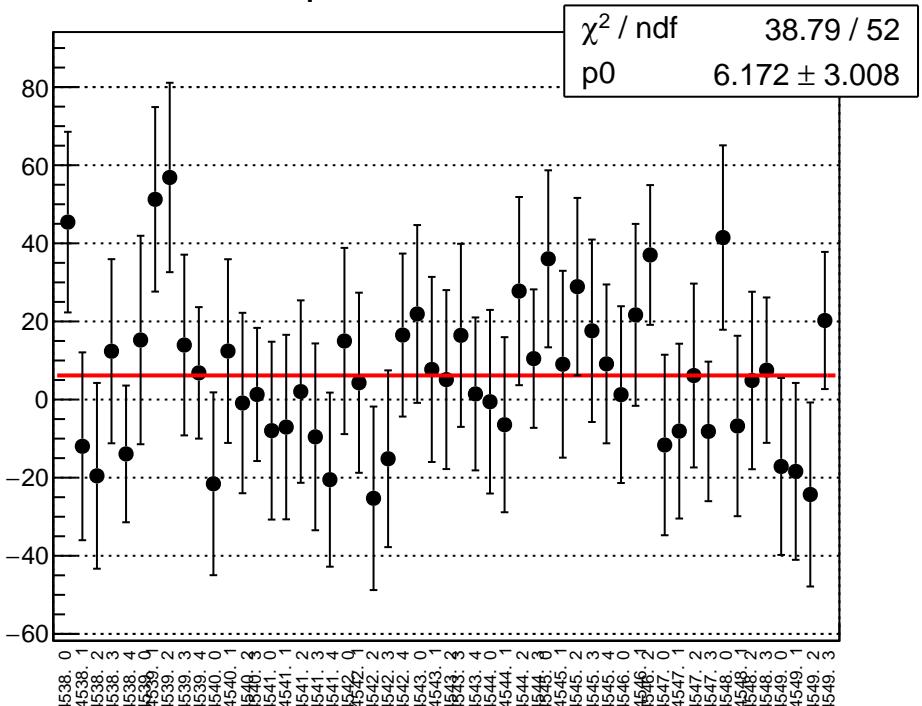
# diff\_bpm4eY\_mean vs run



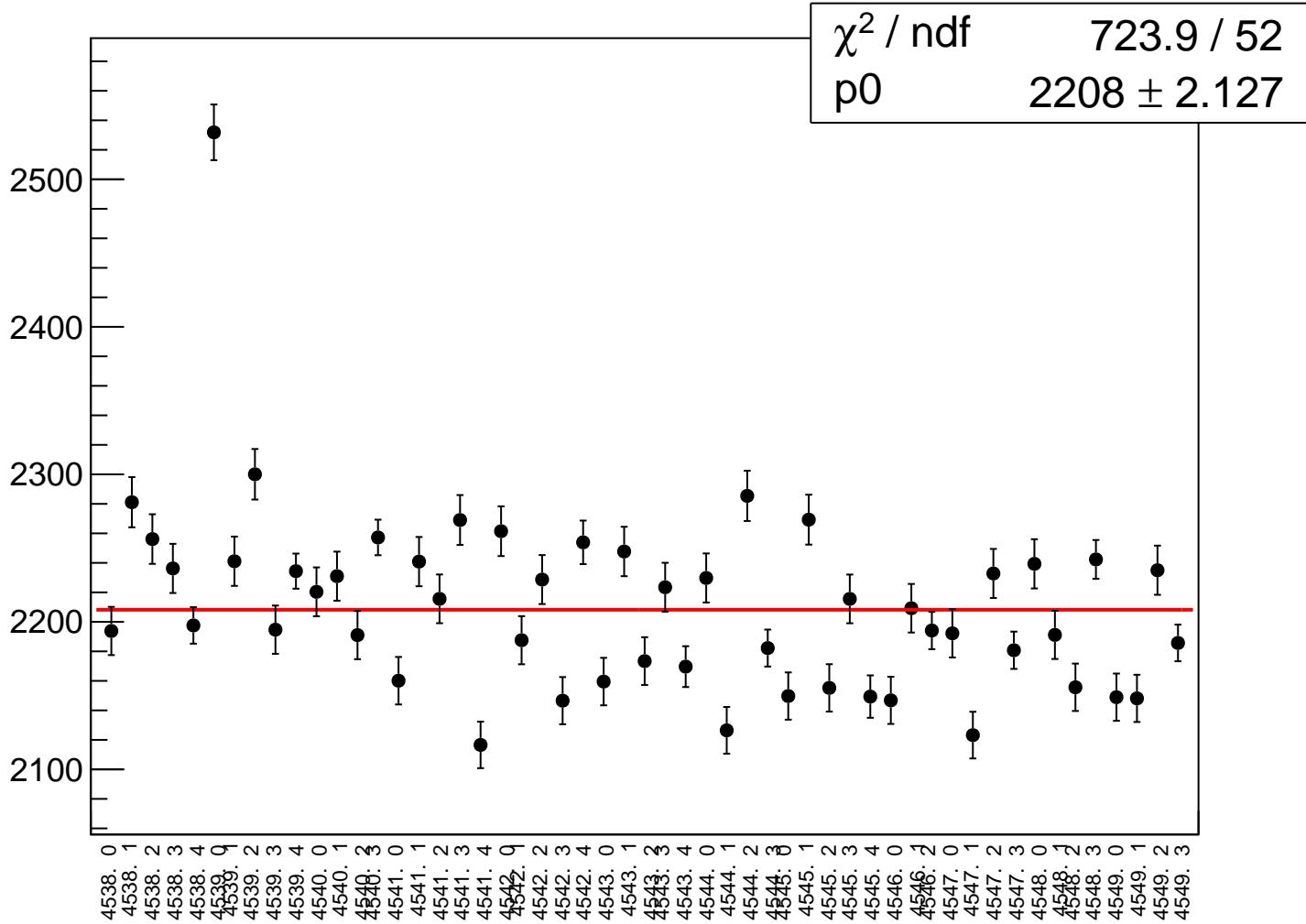
# diff\_bpm4eY\_rms vs run



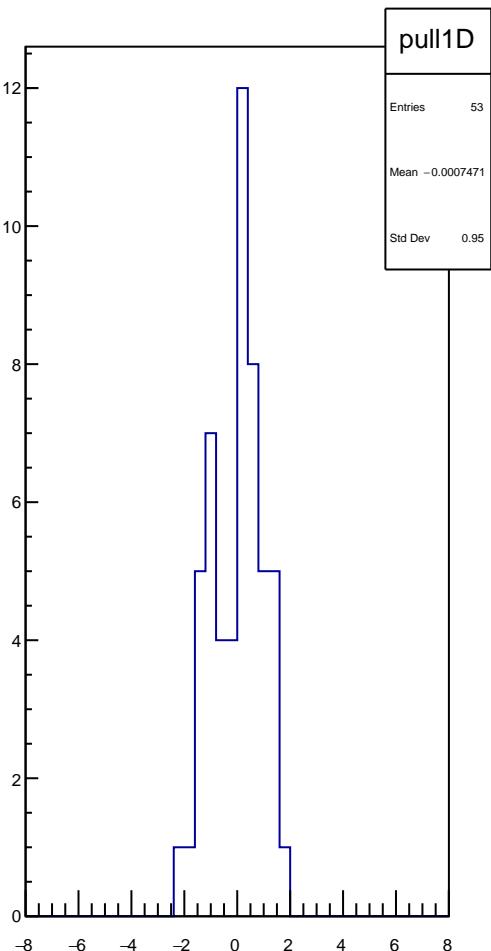
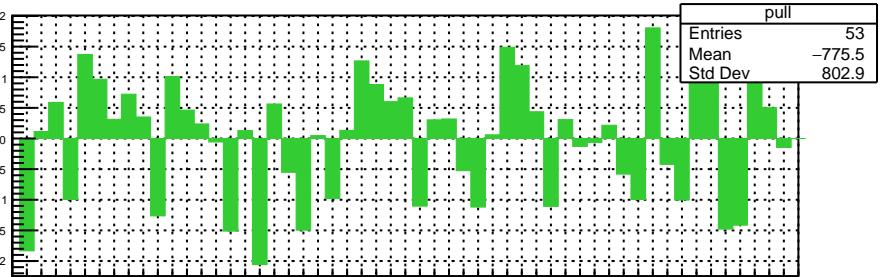
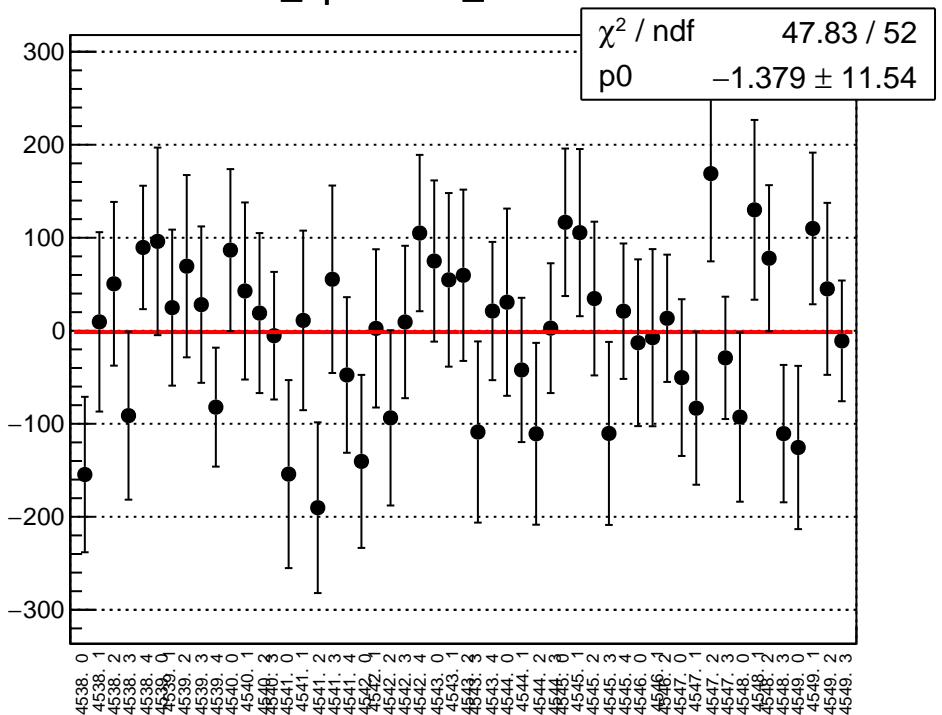
# diff\_bpm4acX\_mean vs run



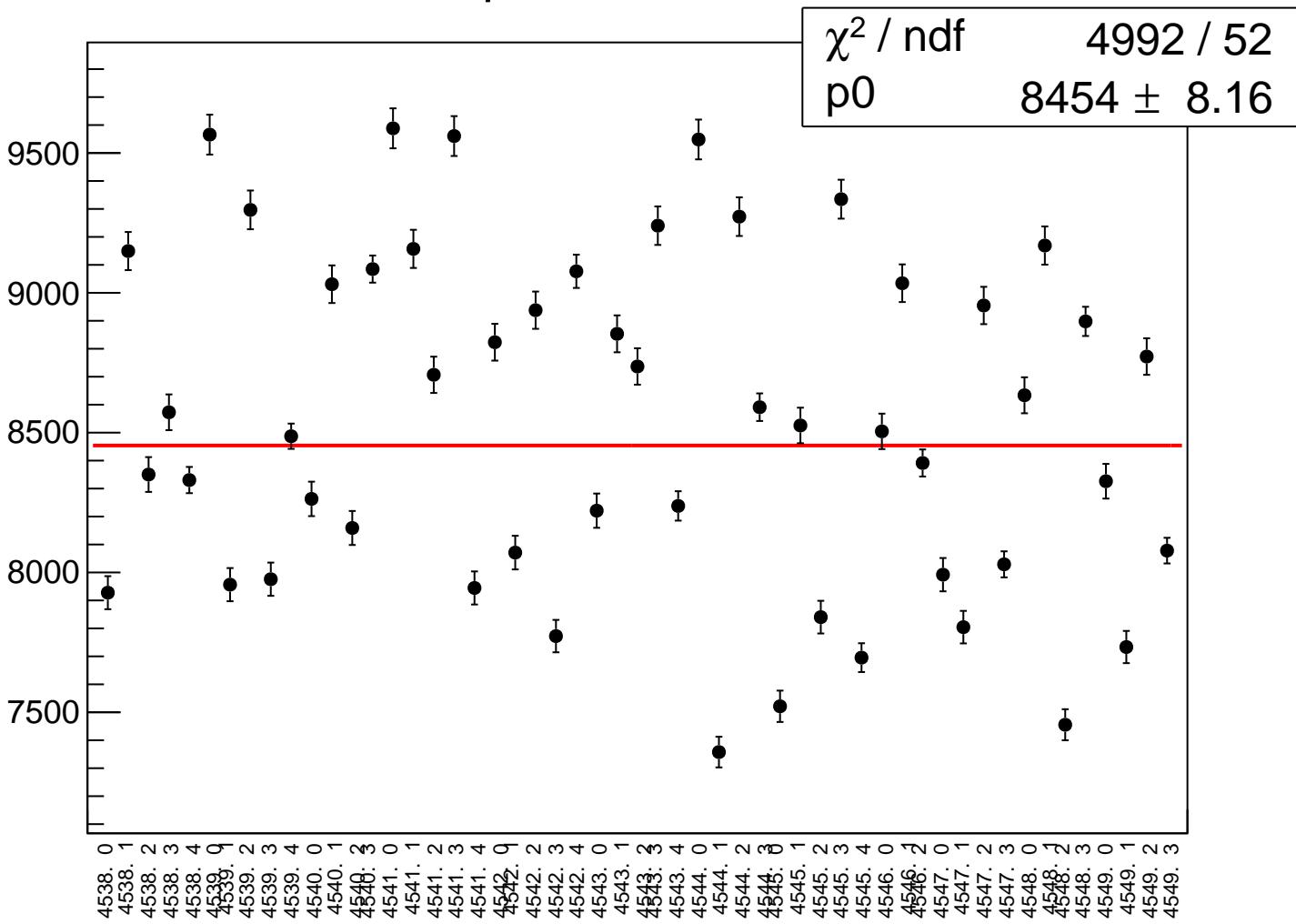
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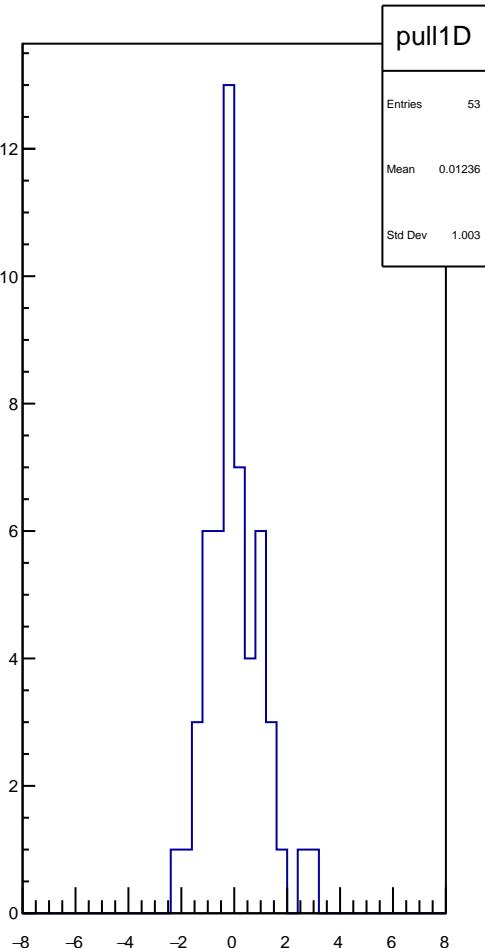
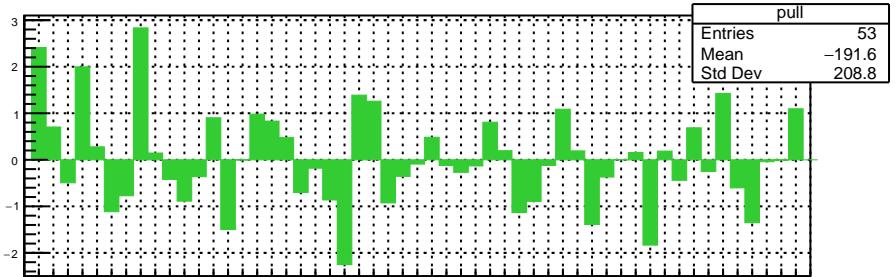
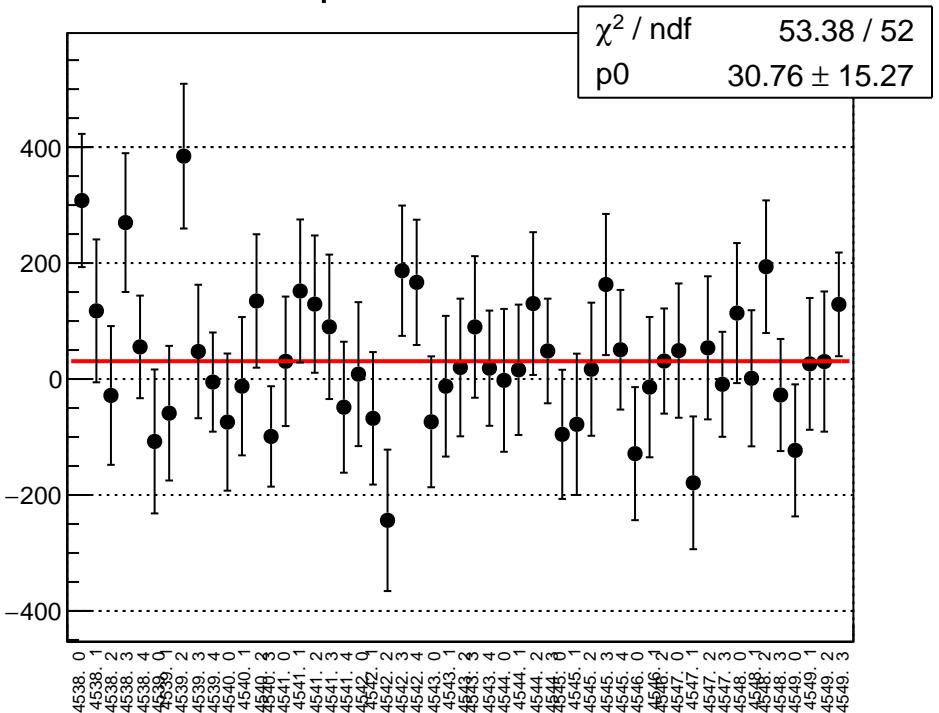
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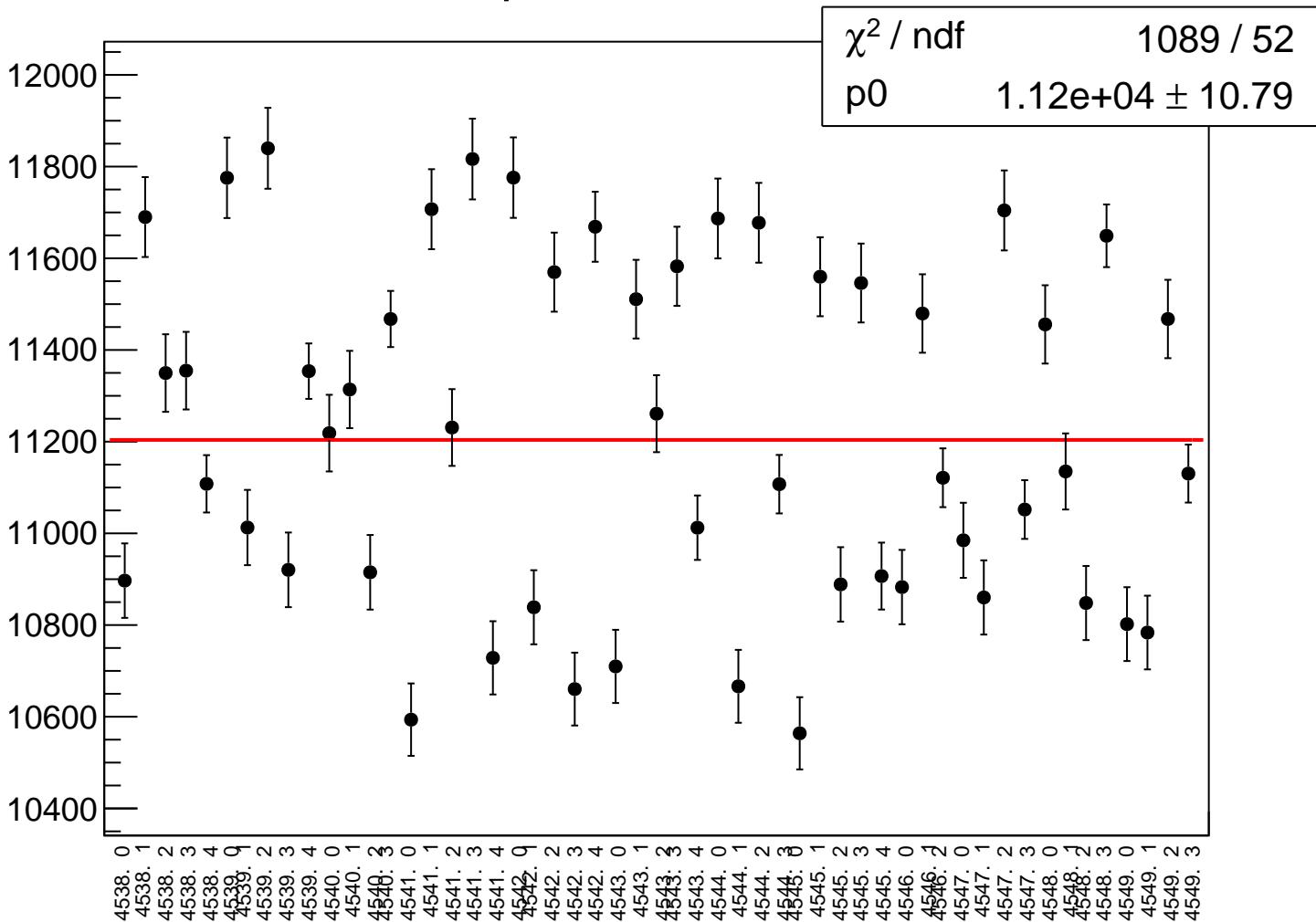
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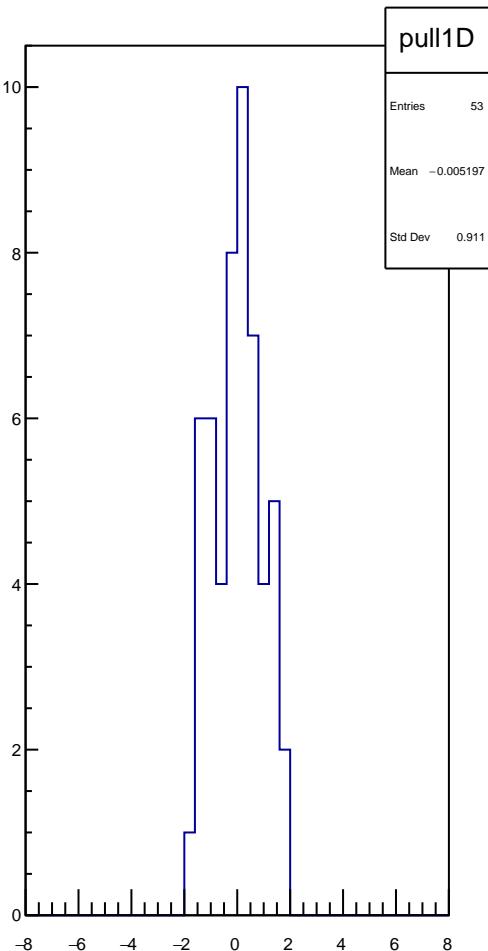
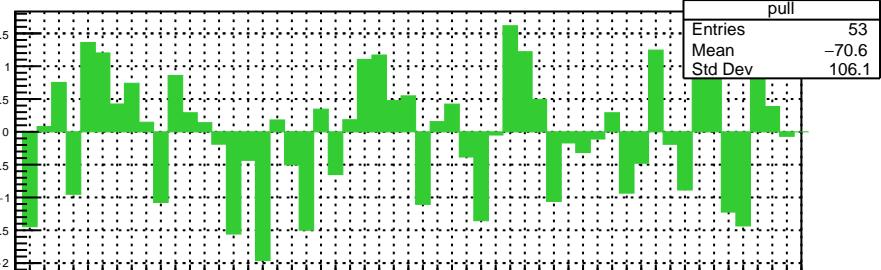
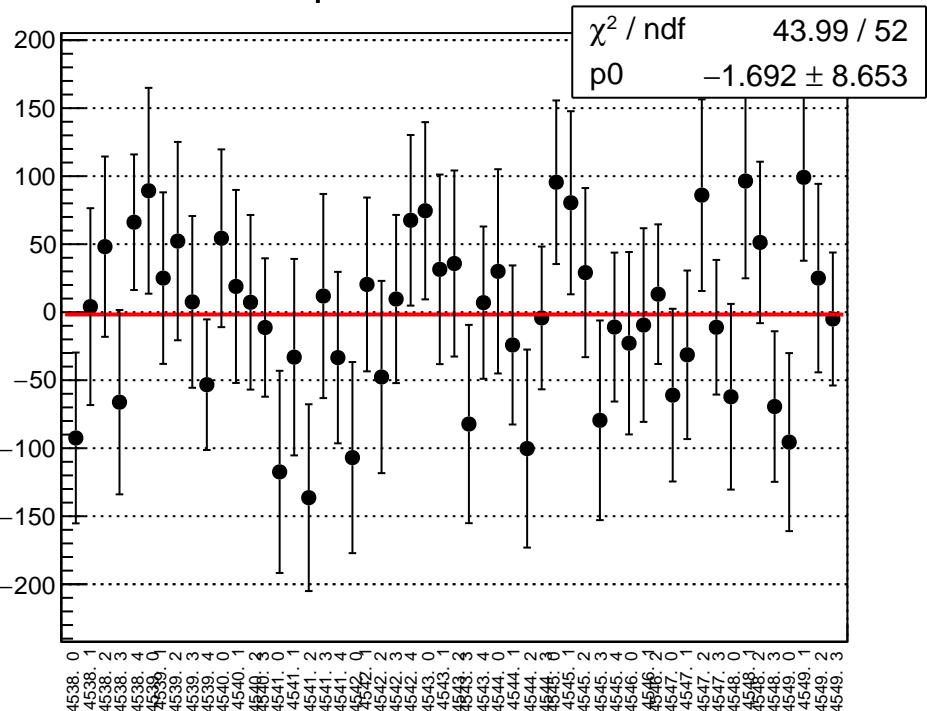
# diff\_bpm4ecX\_mean vs run



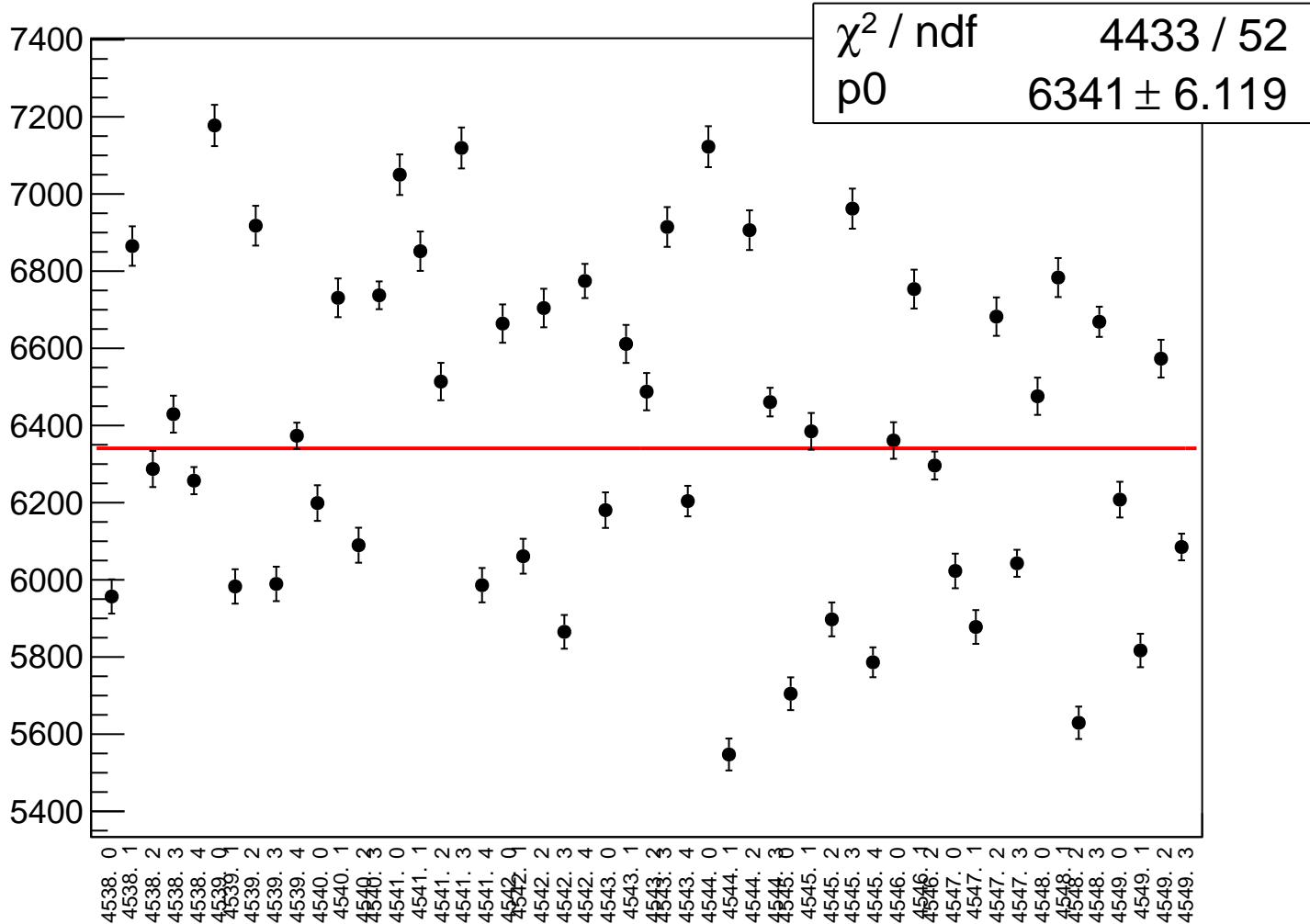
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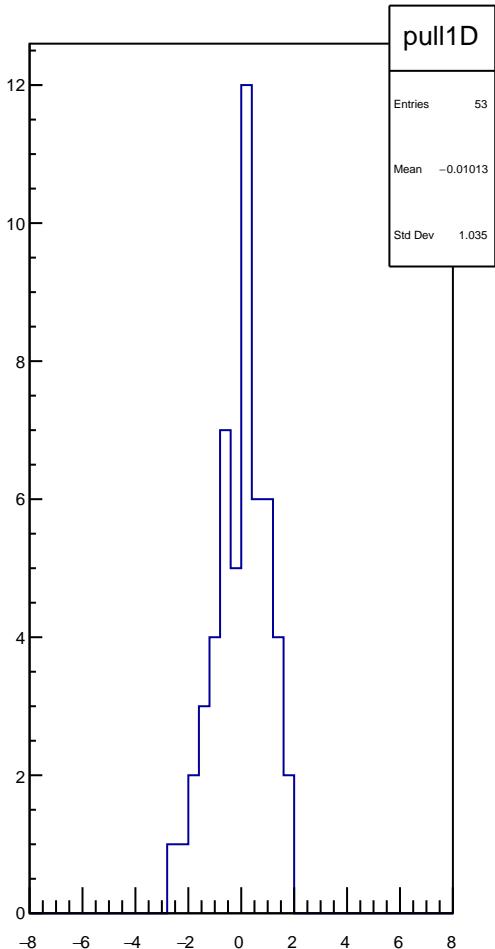
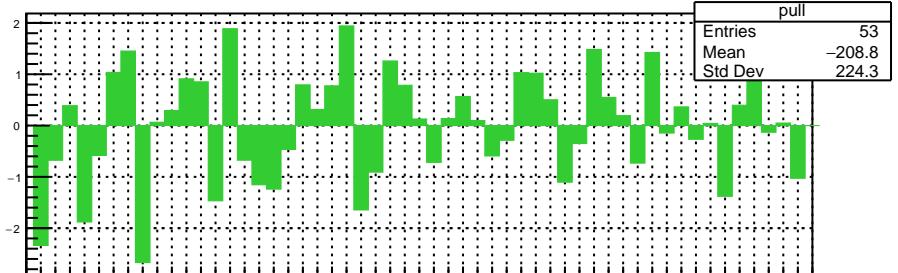
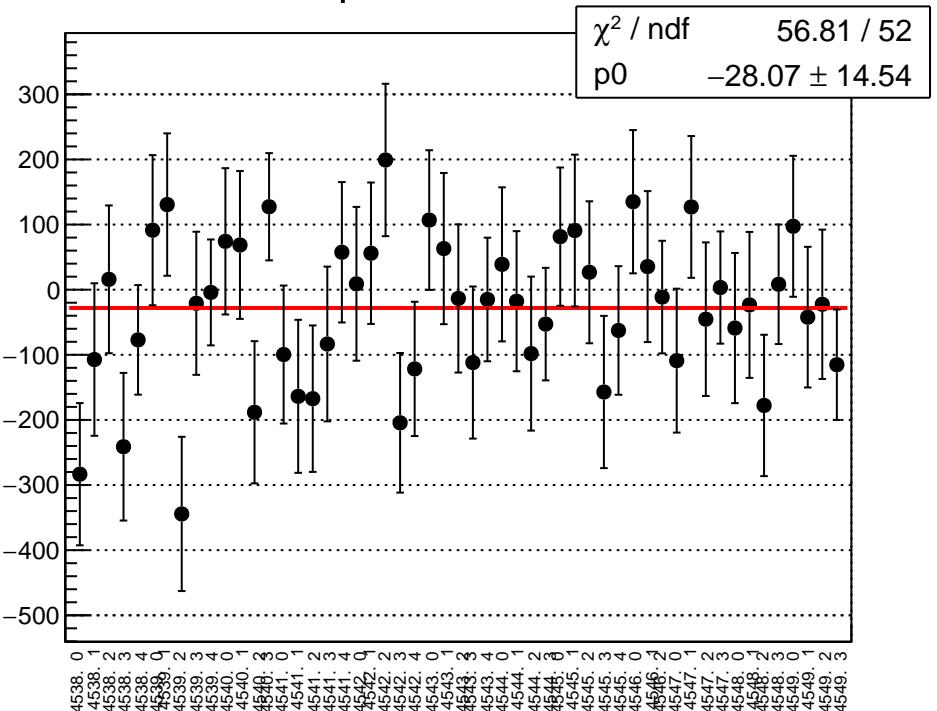
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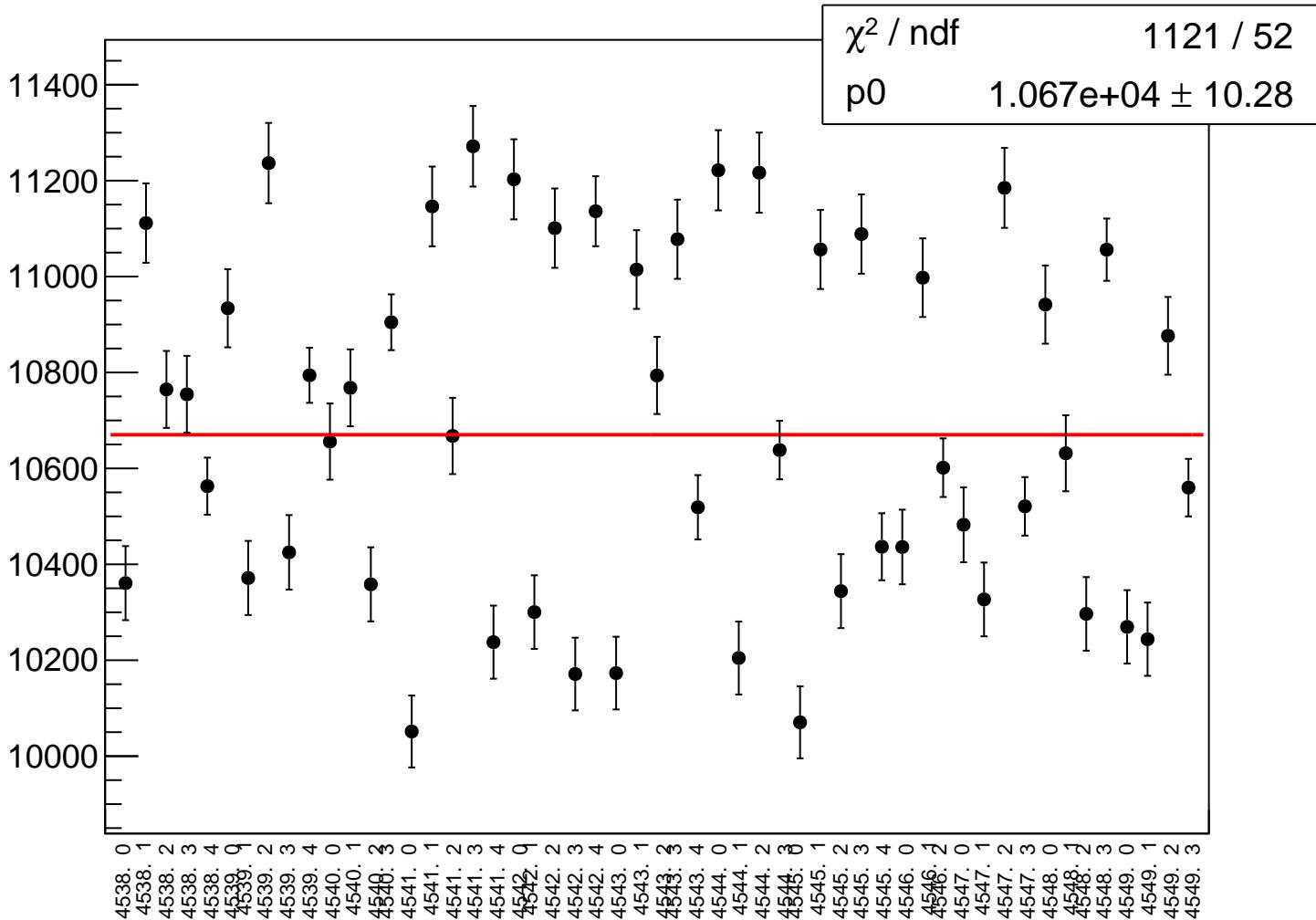
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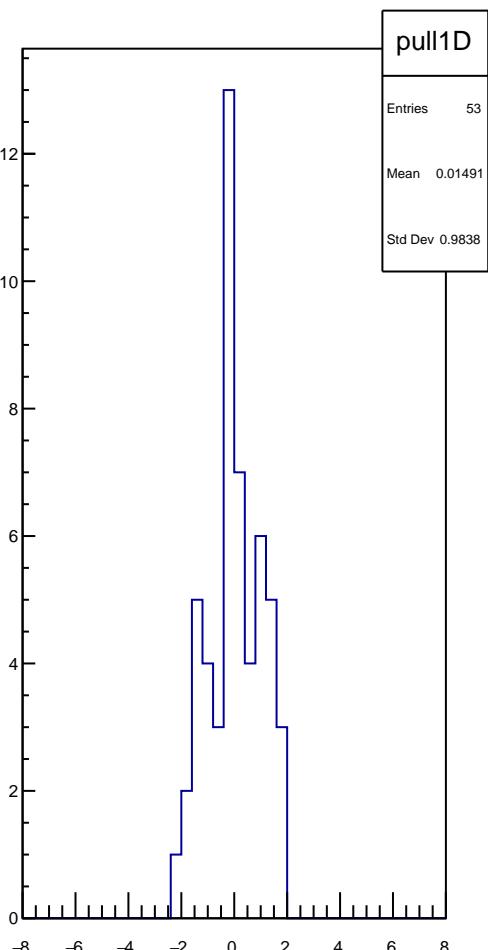
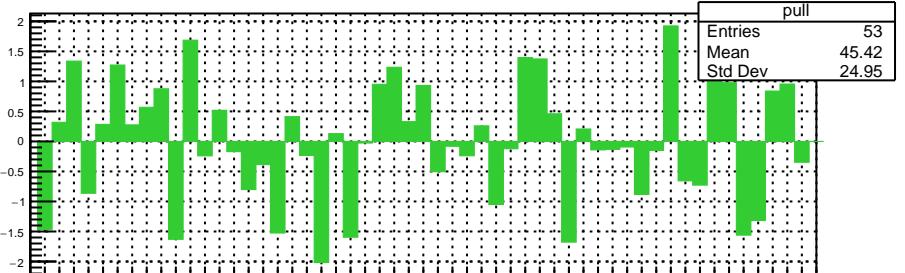
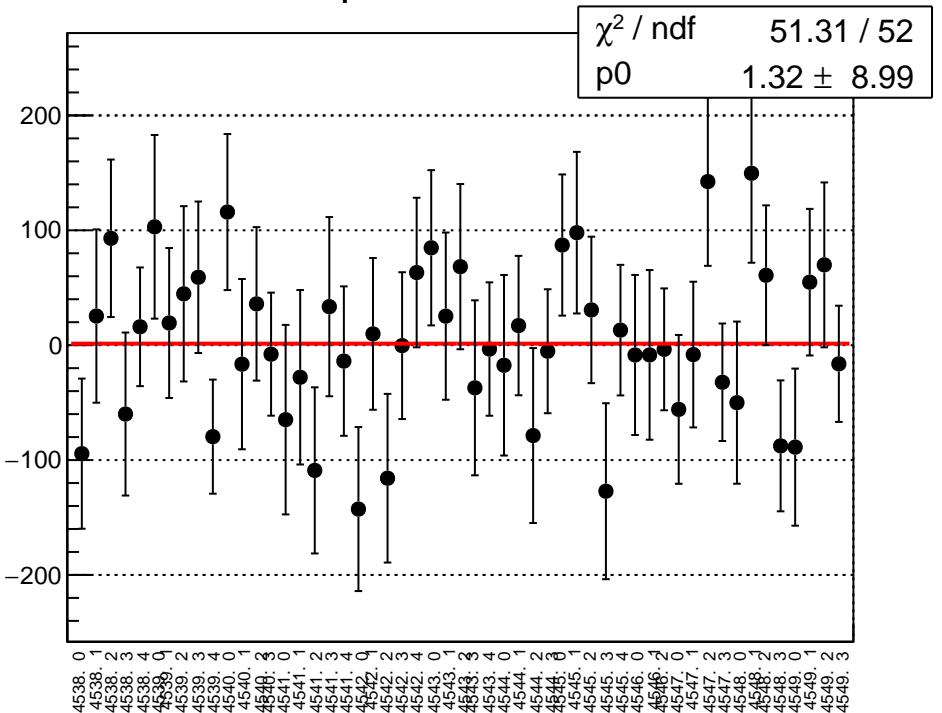
# diff\_bpm1X\_mean vs run



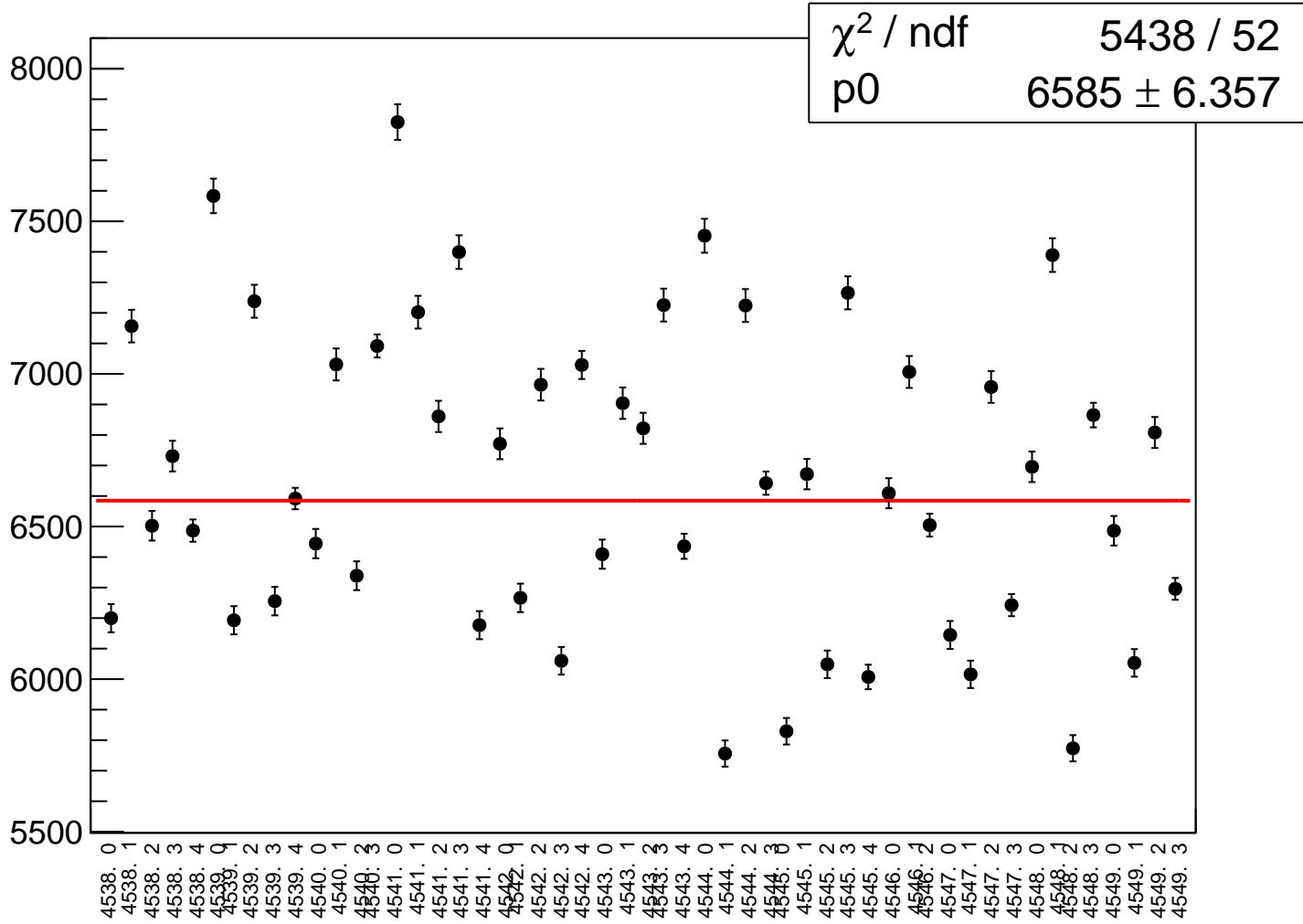
# diff\_bpm1X\_rms vs run



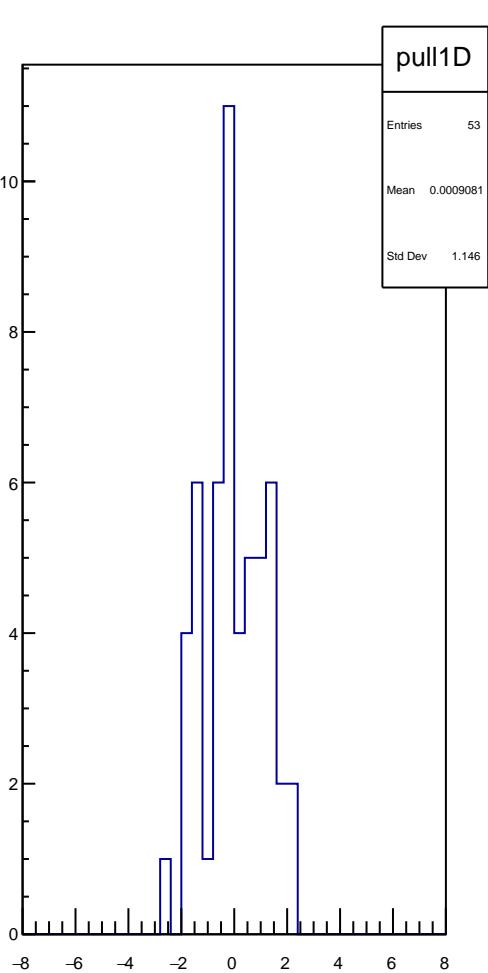
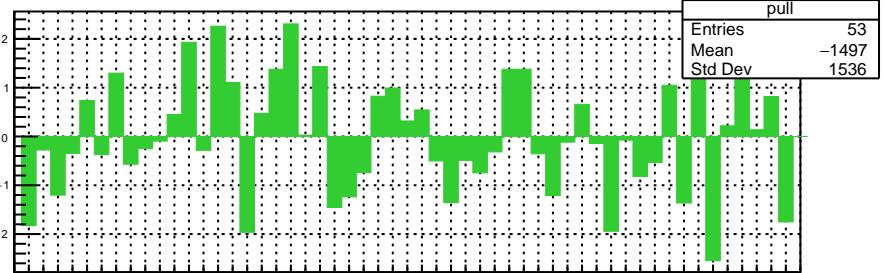
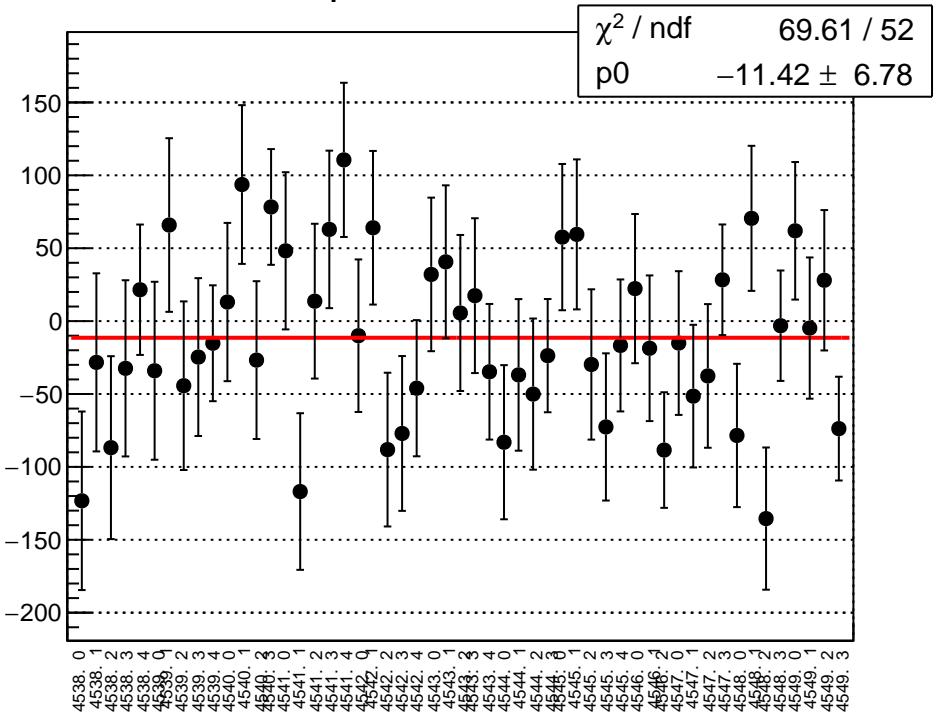
# diff\_bpm1Y\_mean vs run



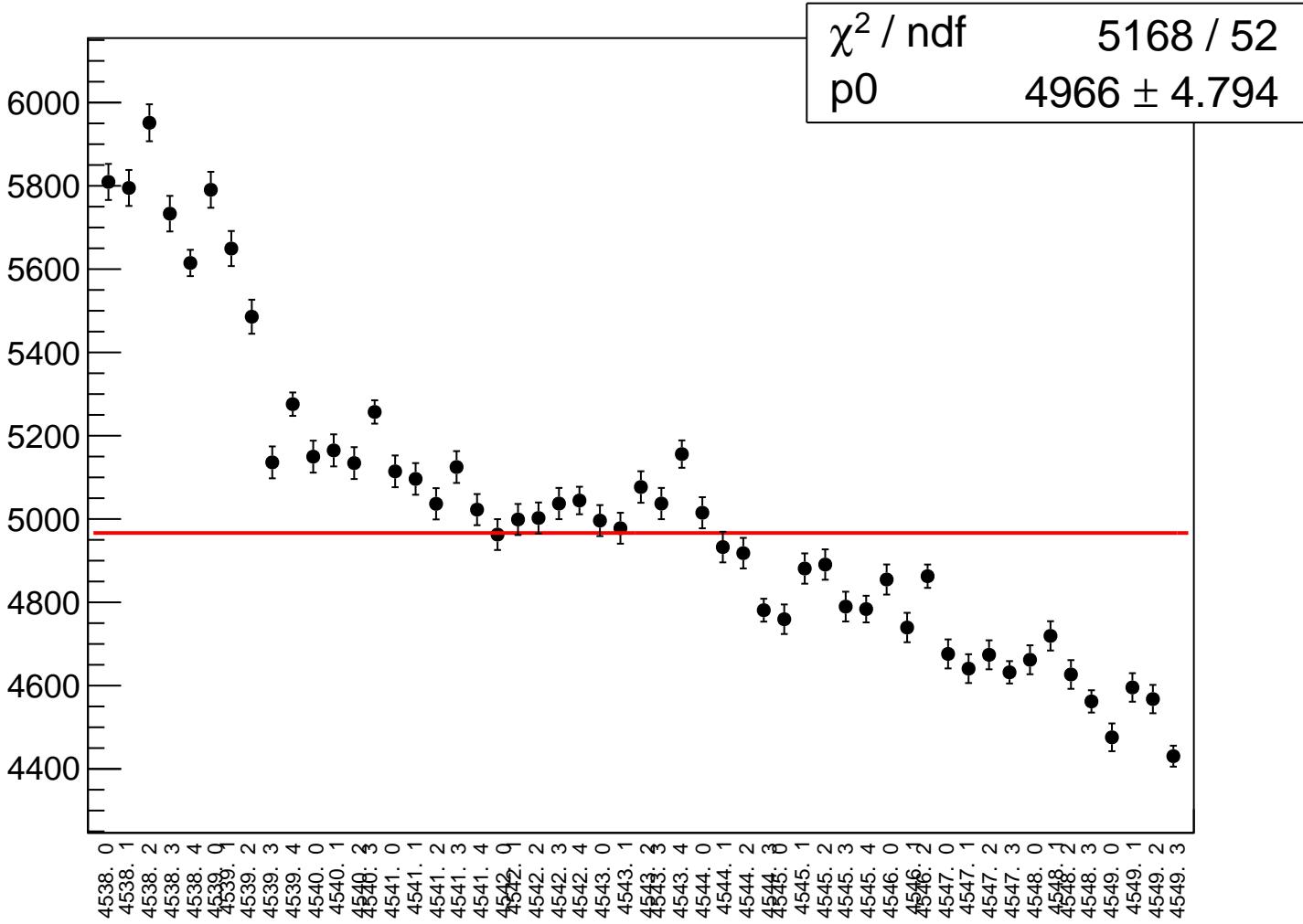
# diff\_bpm1Y\_rms vs run



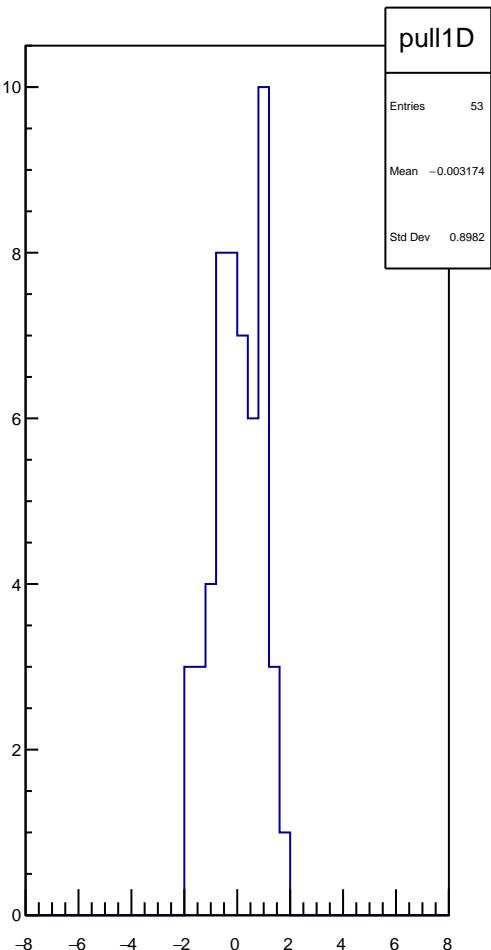
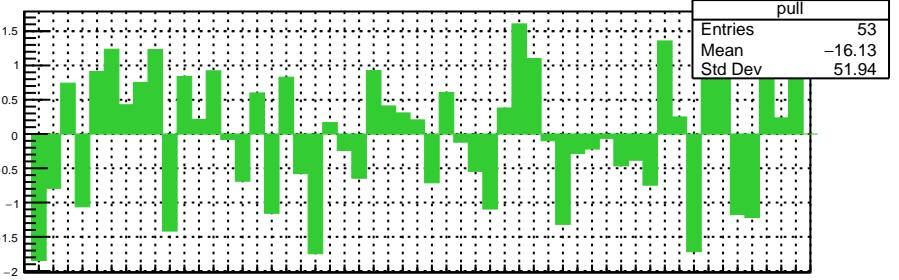
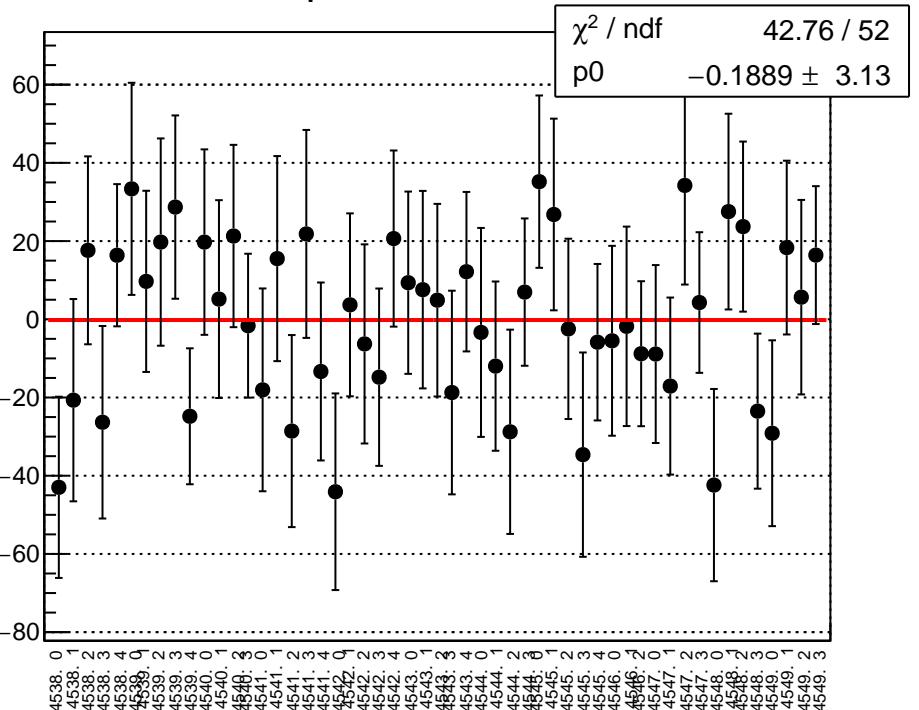
# diff\_bpm11X\_mean vs run



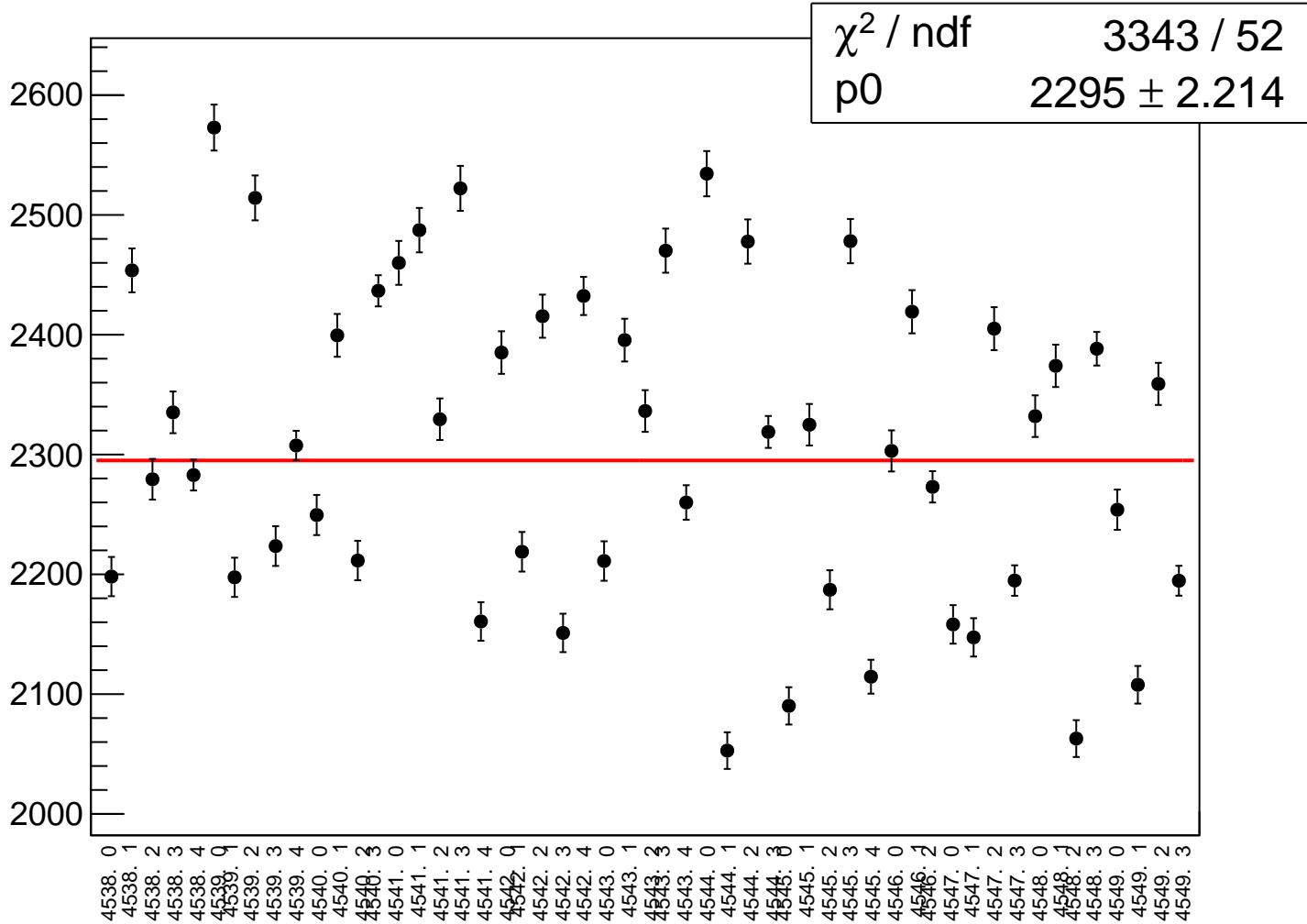
# diff\_bpm11X\_rms vs run



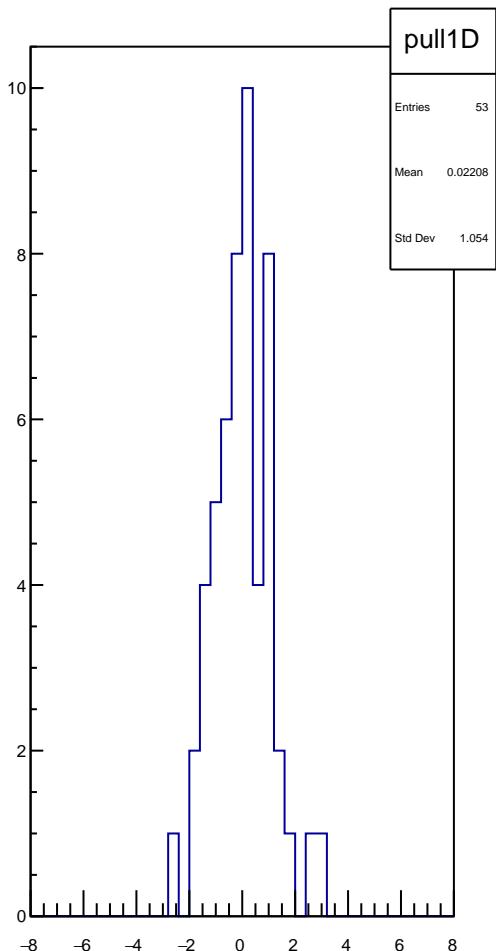
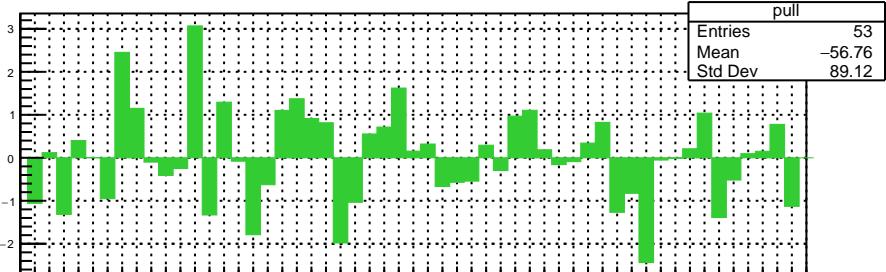
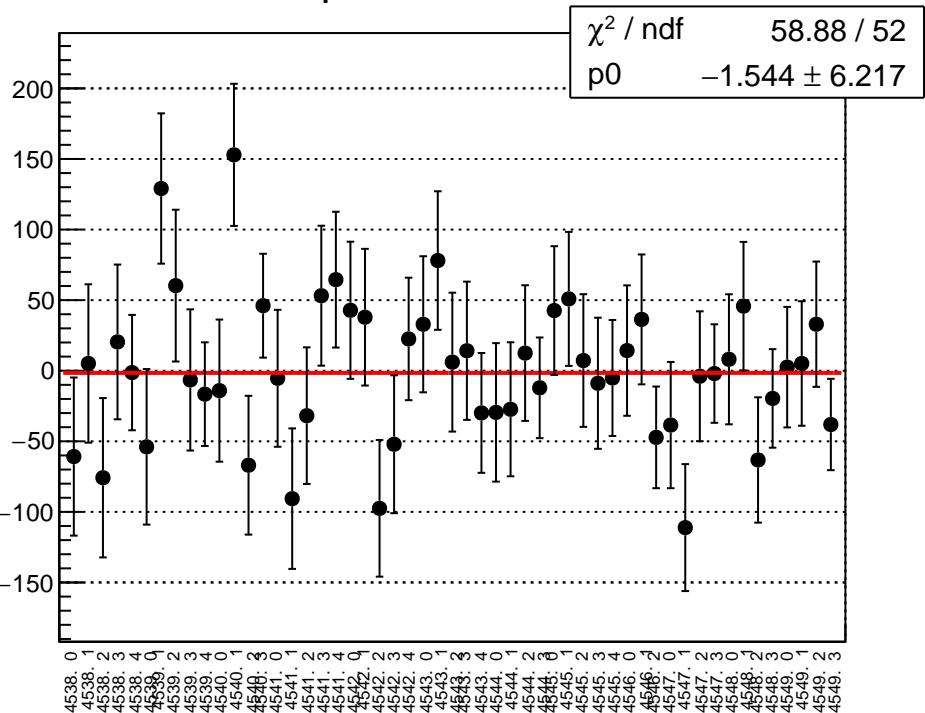
# diff\_bpm11Y\_mean vs run



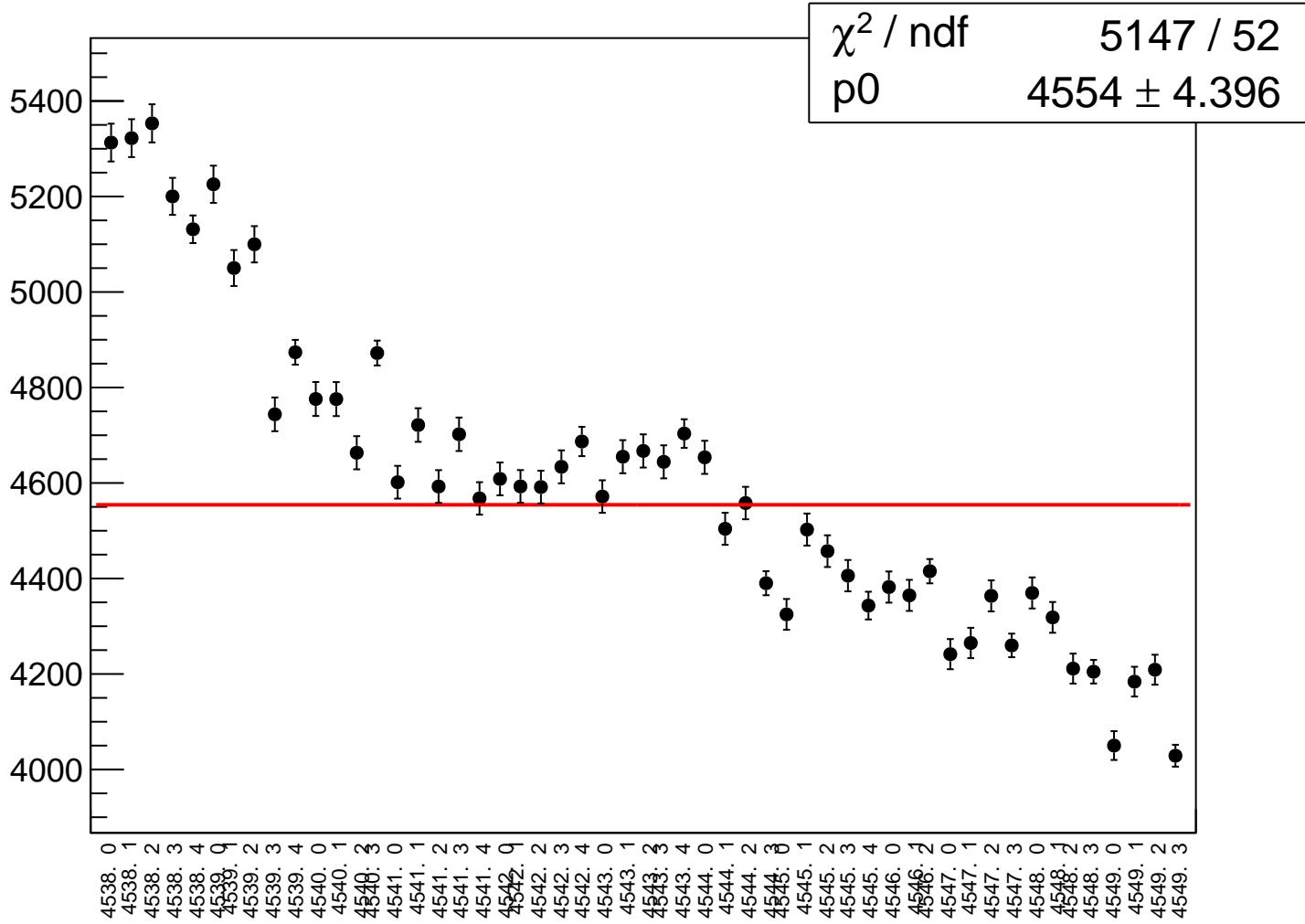
# diff\_bpm11Y\_rms vs run



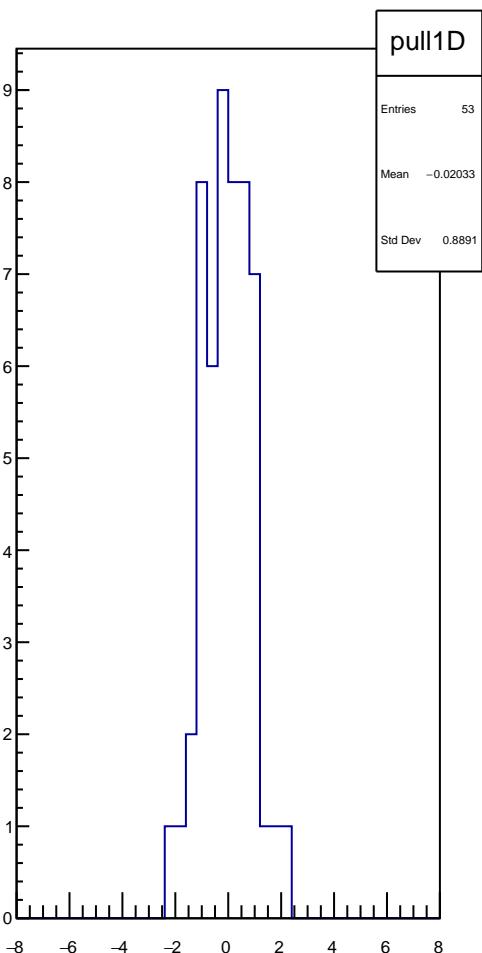
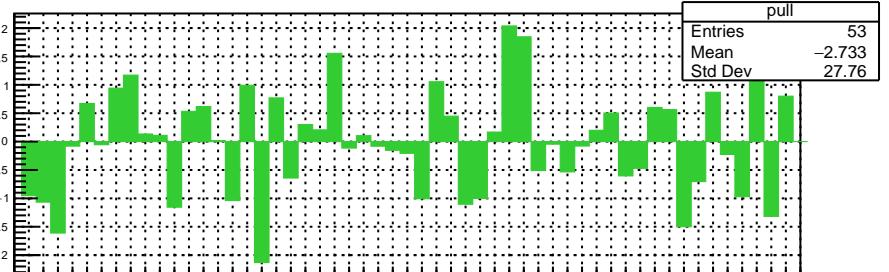
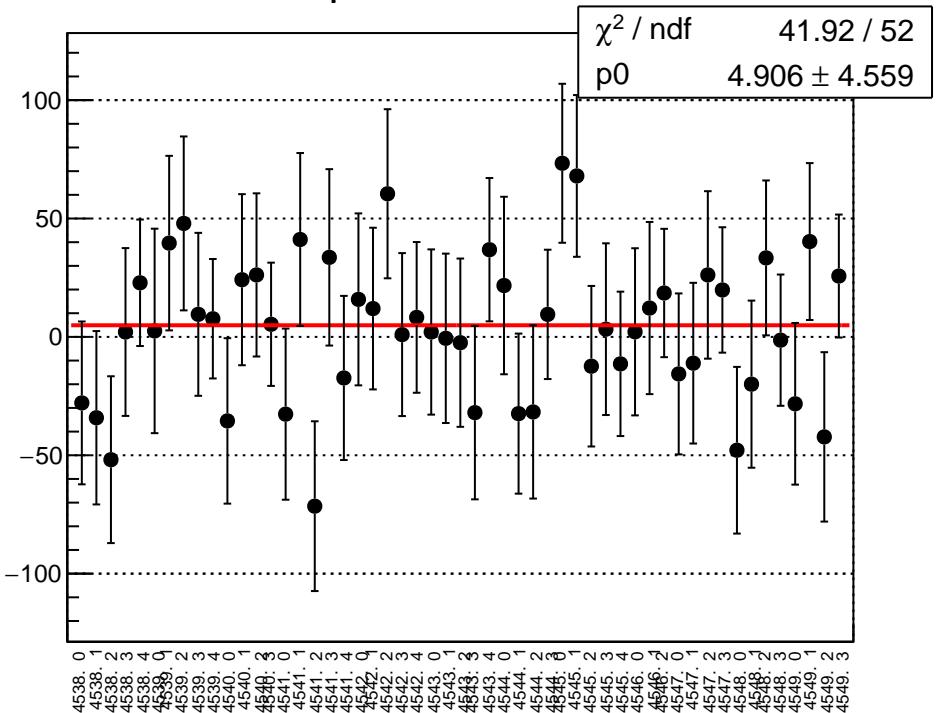
# diff\_bpm12X\_mean vs run



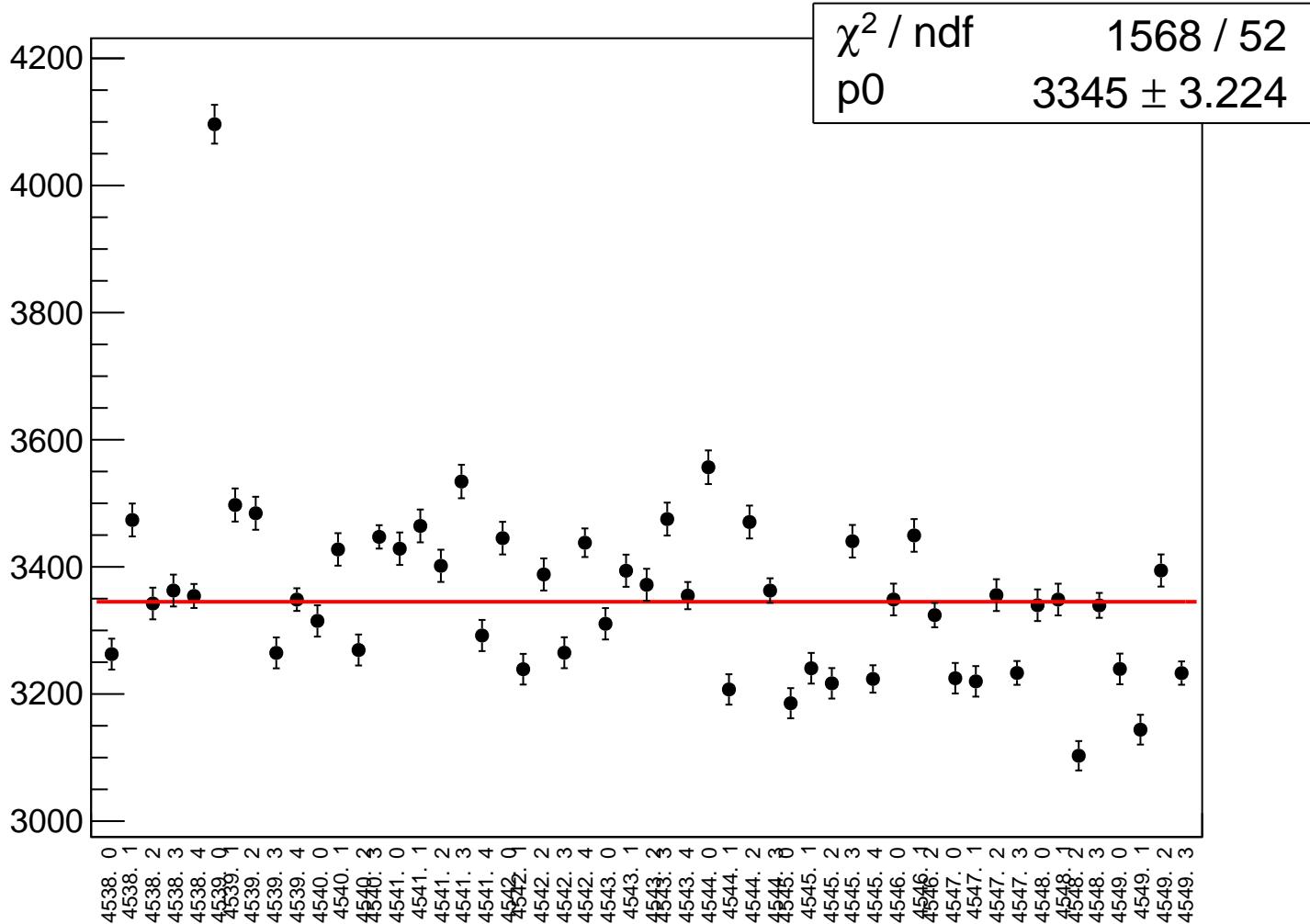
# diff\_bpm12X\_rms vs run



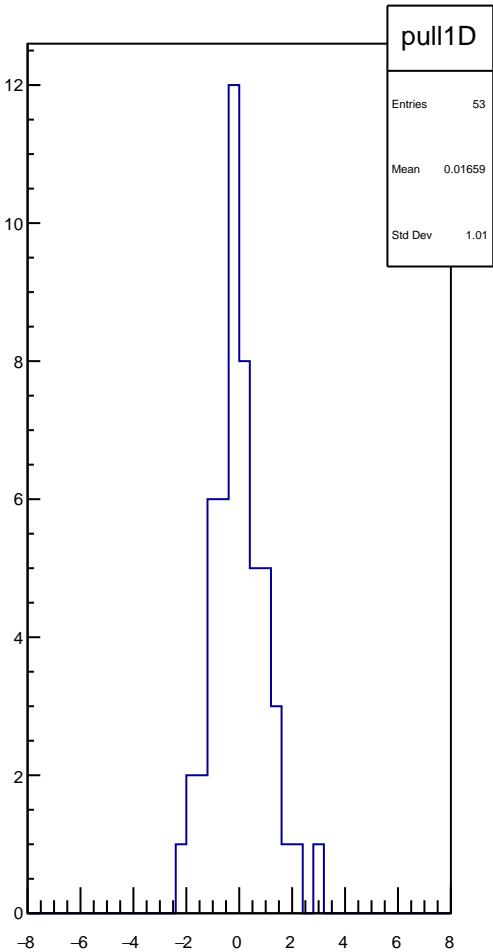
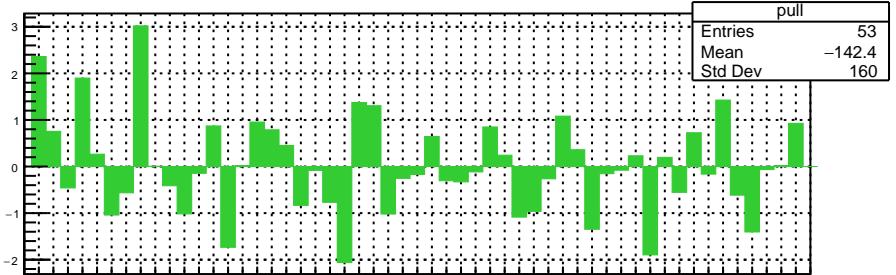
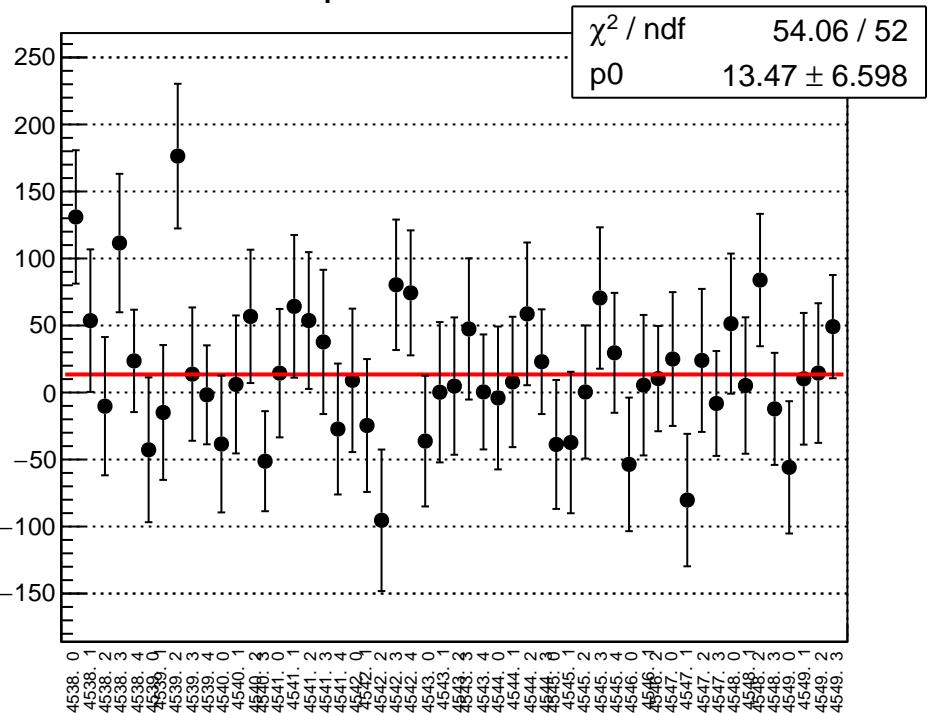
# diff\_bpm12Y\_mean vs run



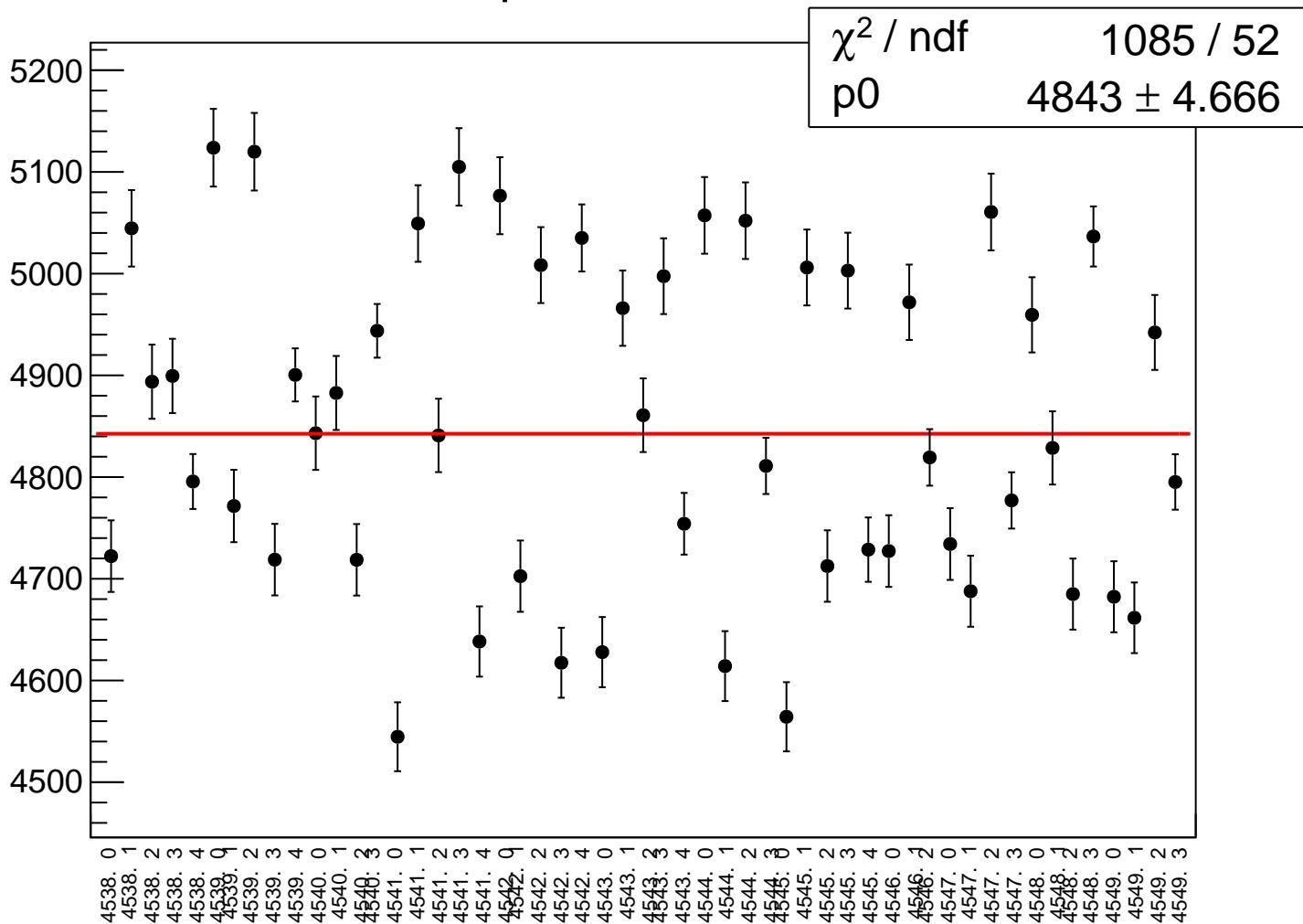
# diff\_bpm12Y\_rms vs run



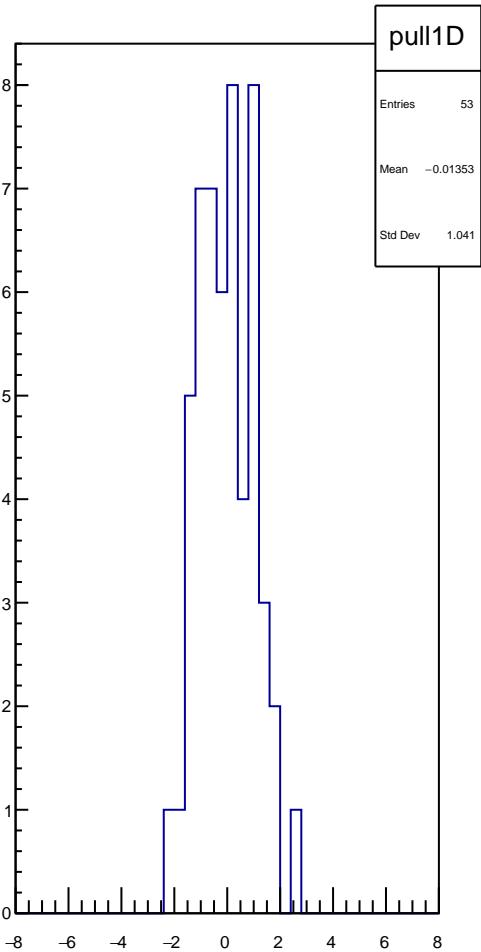
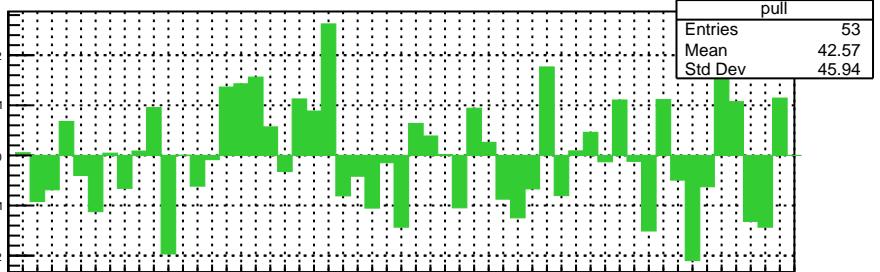
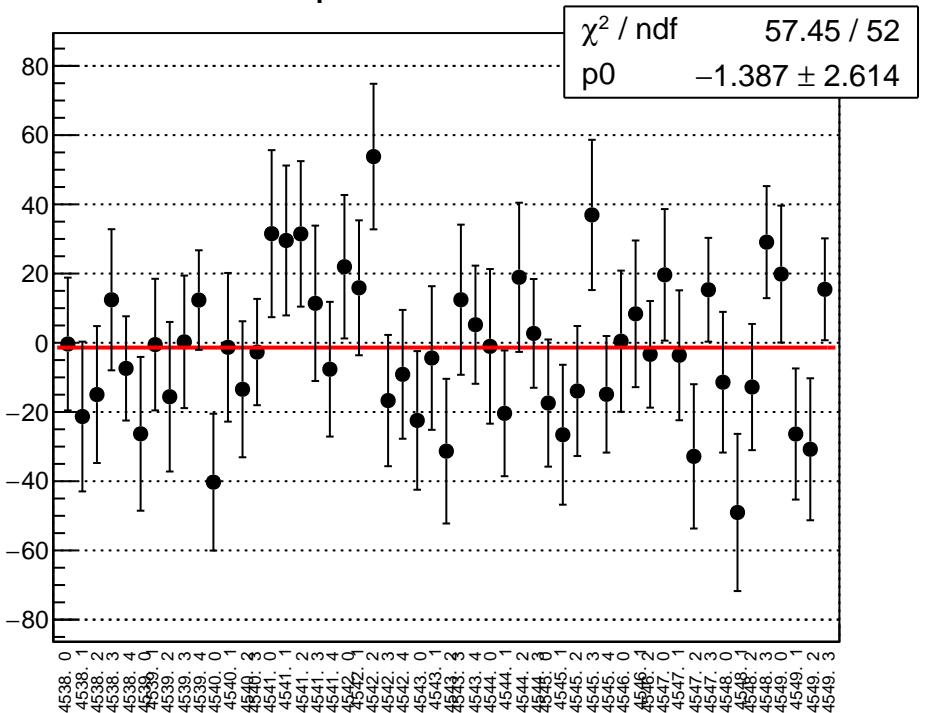
# diff\_bpm16X\_mean vs run



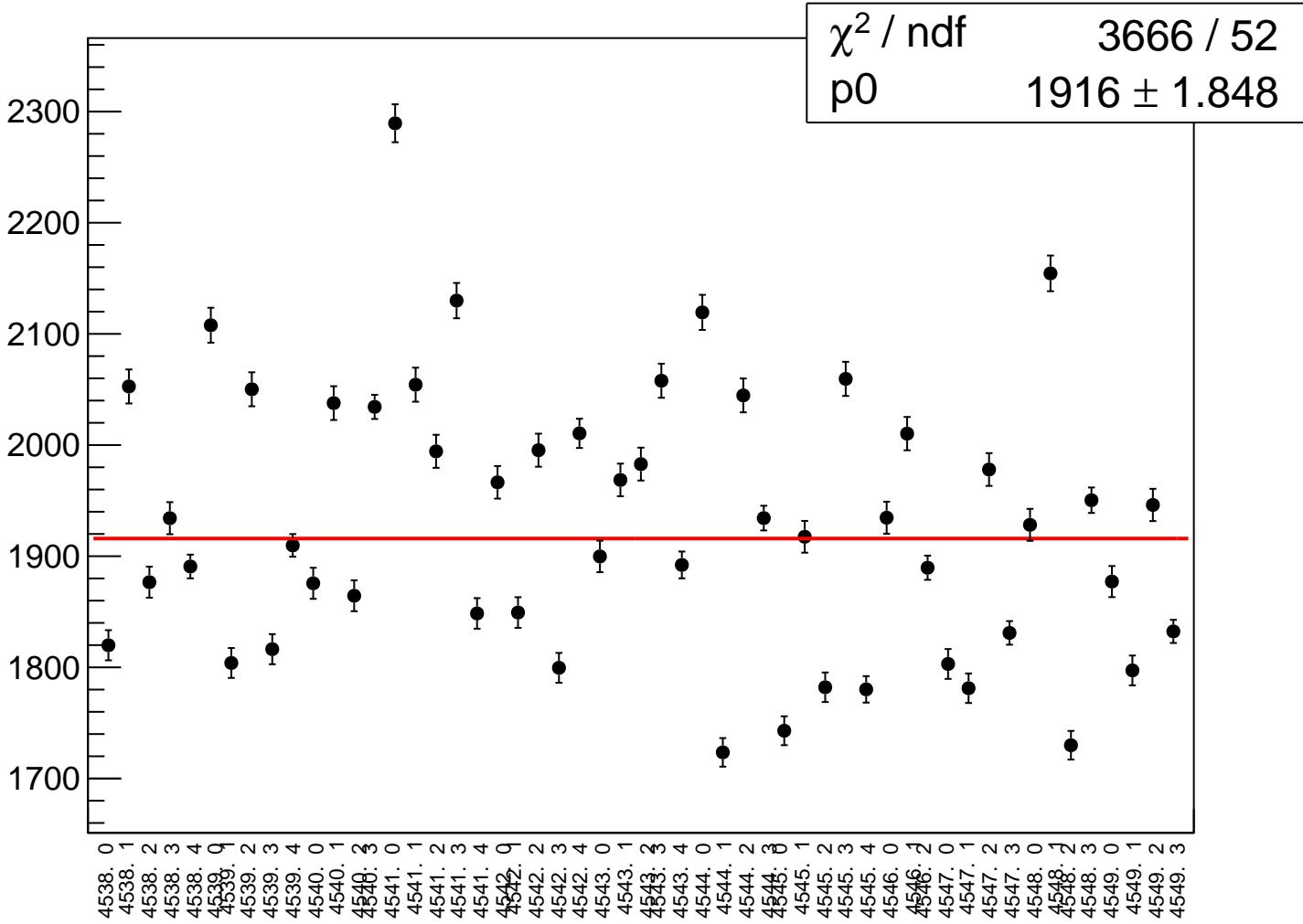
# diff\_bpm16X\_rms vs run



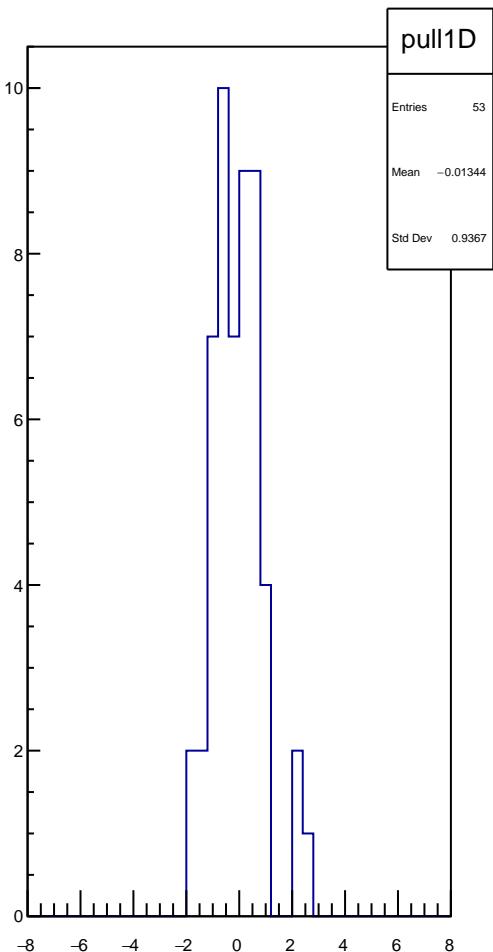
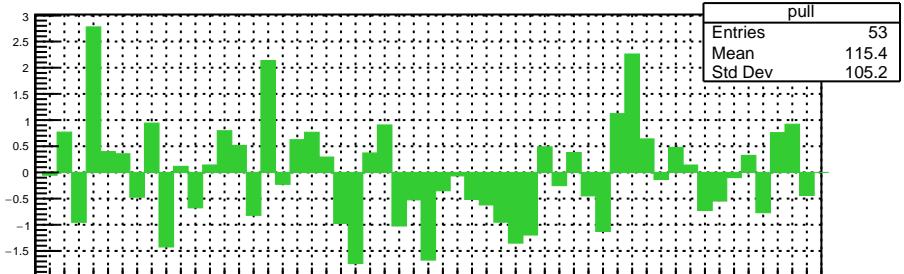
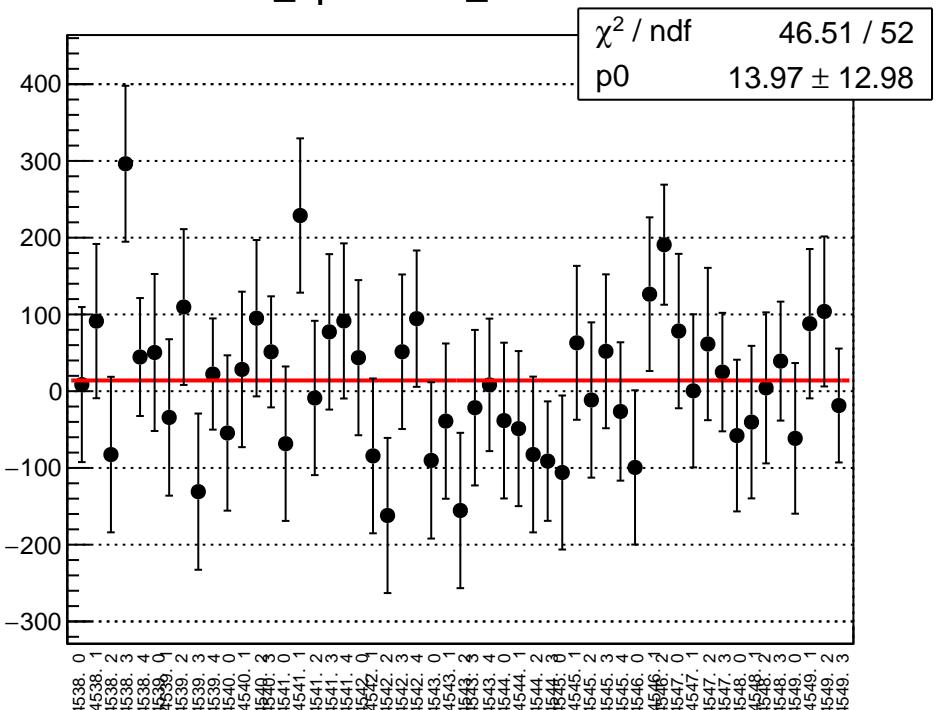
# diff\_bpm16Y\_mean vs run



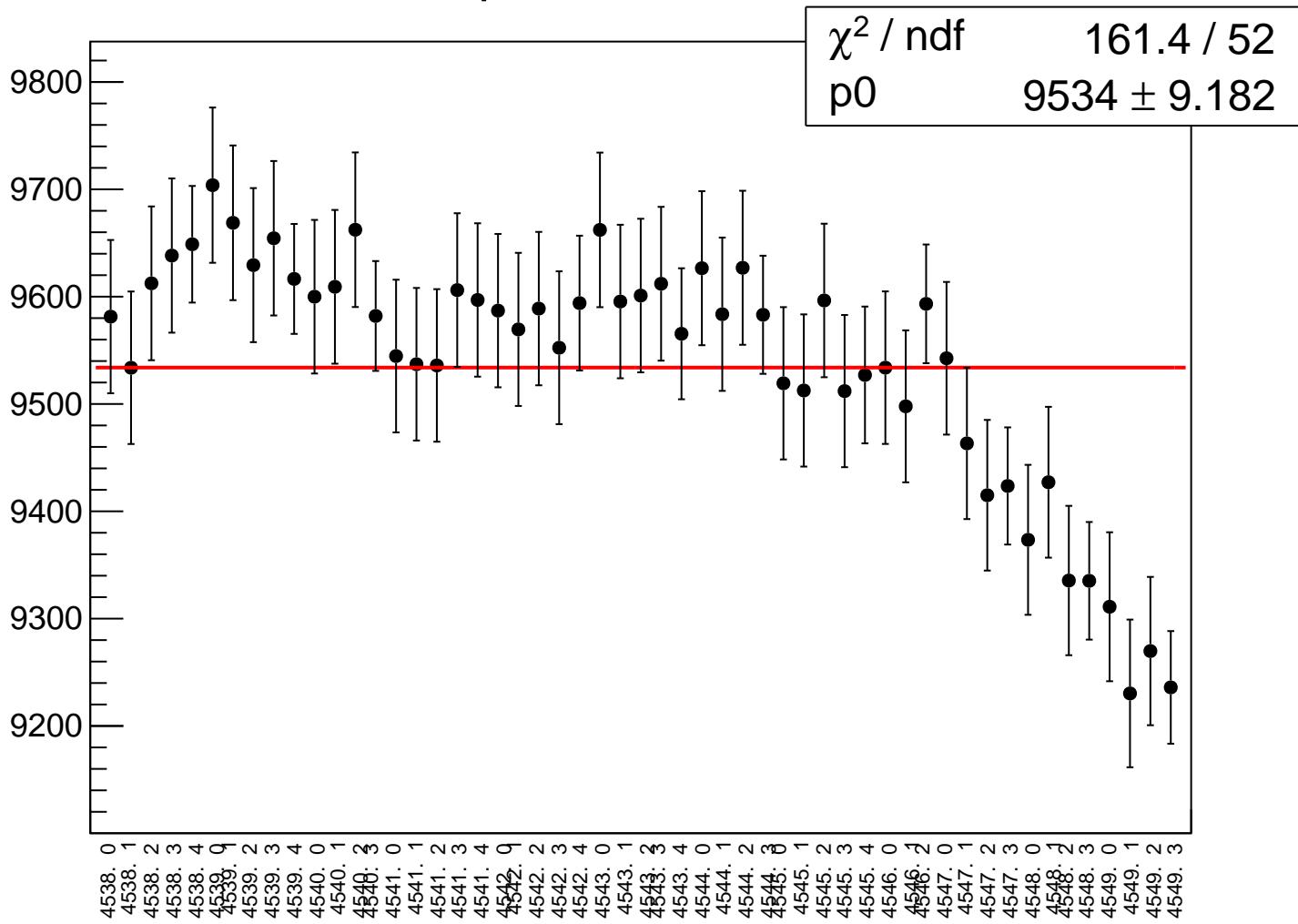
# diff\_bpm16Y\_rms vs run



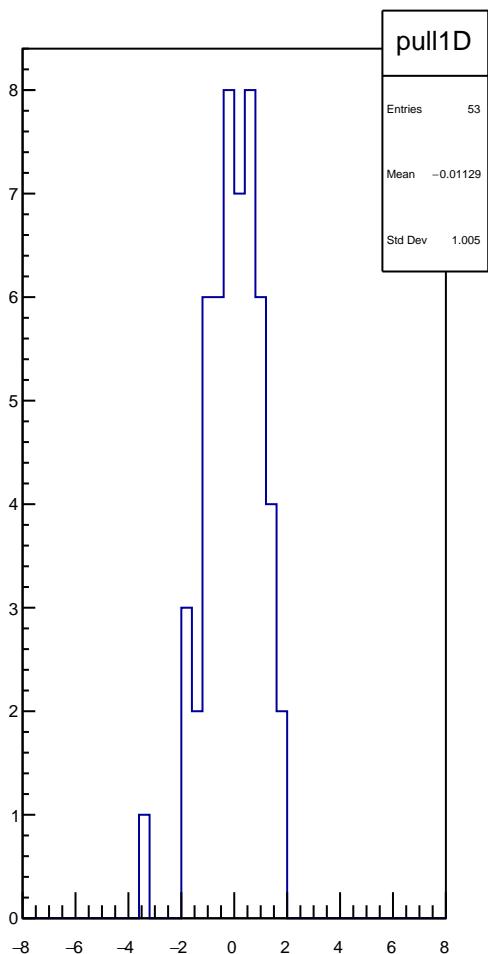
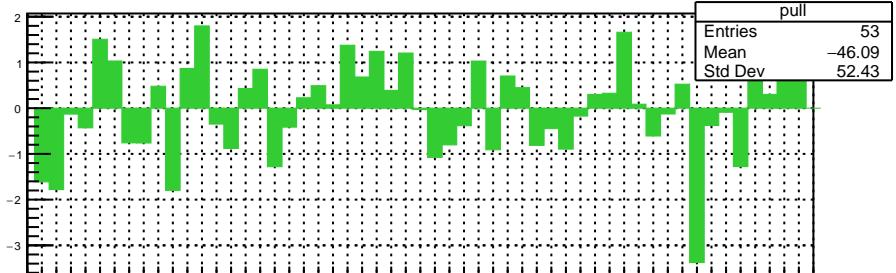
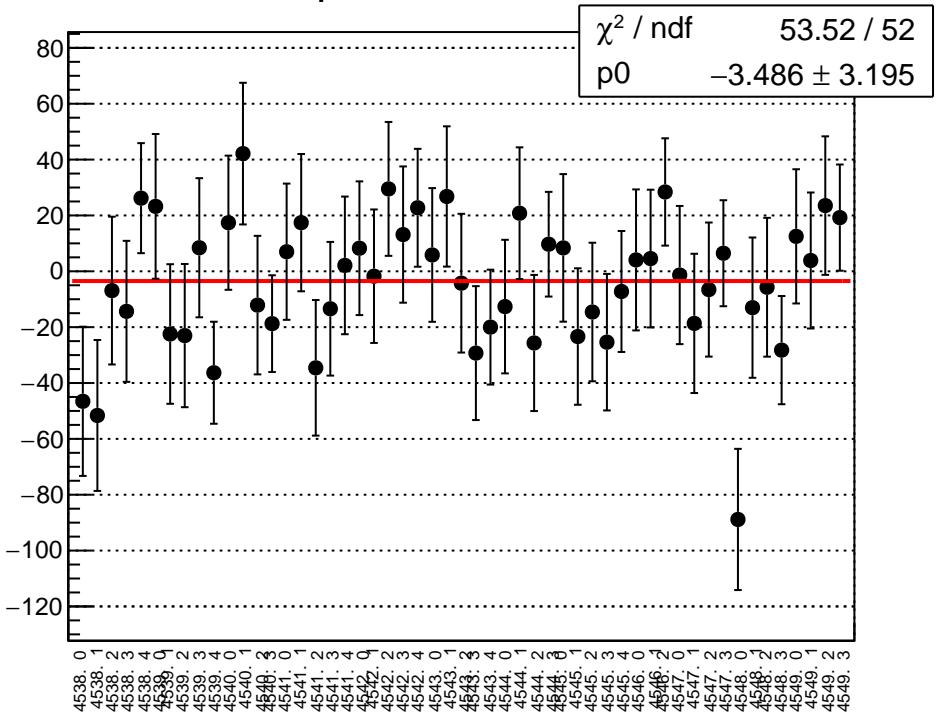
# diff\_bpm0l01X\_mean vs run



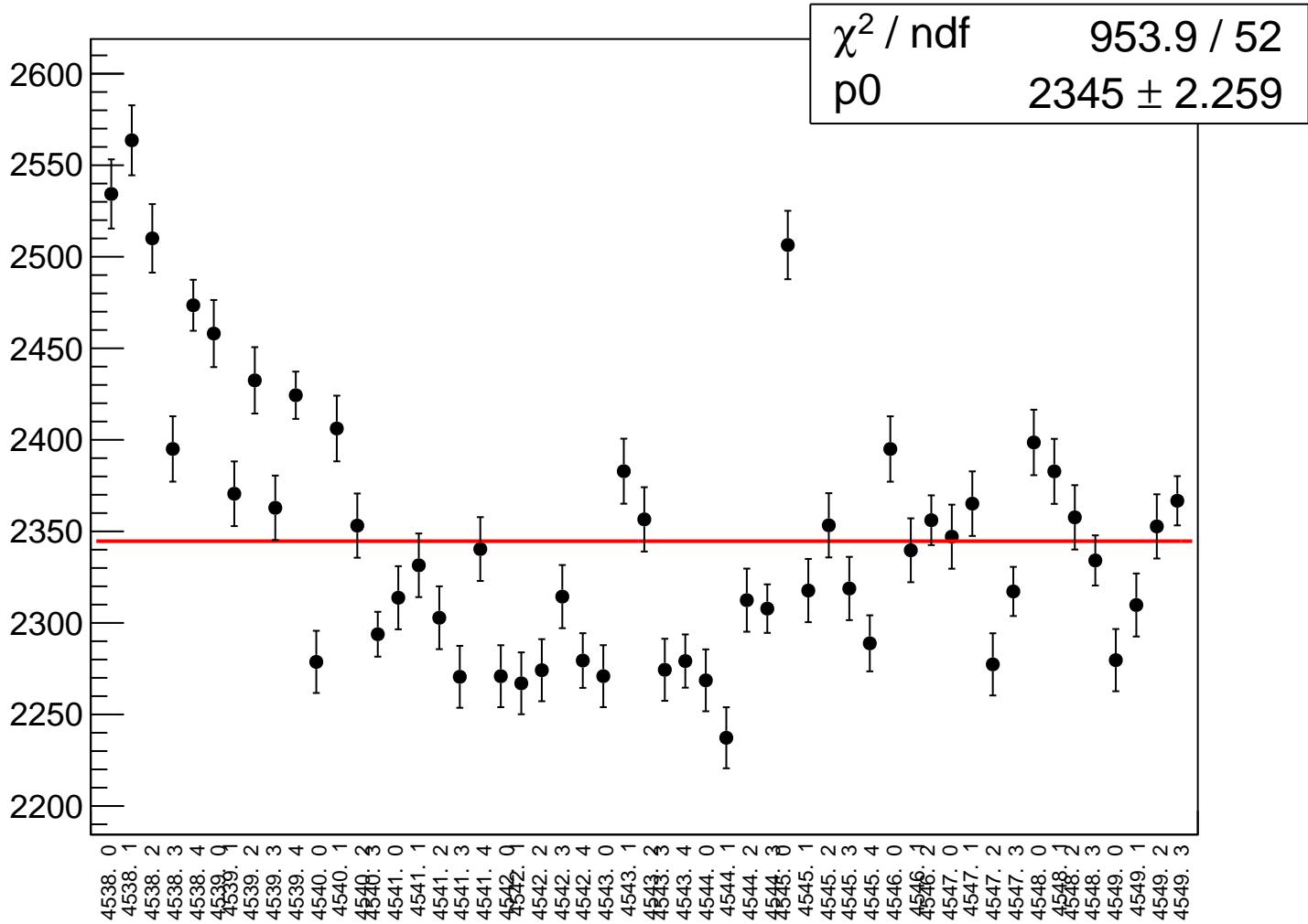
# diff\_bpm0I01X\_rms vs run



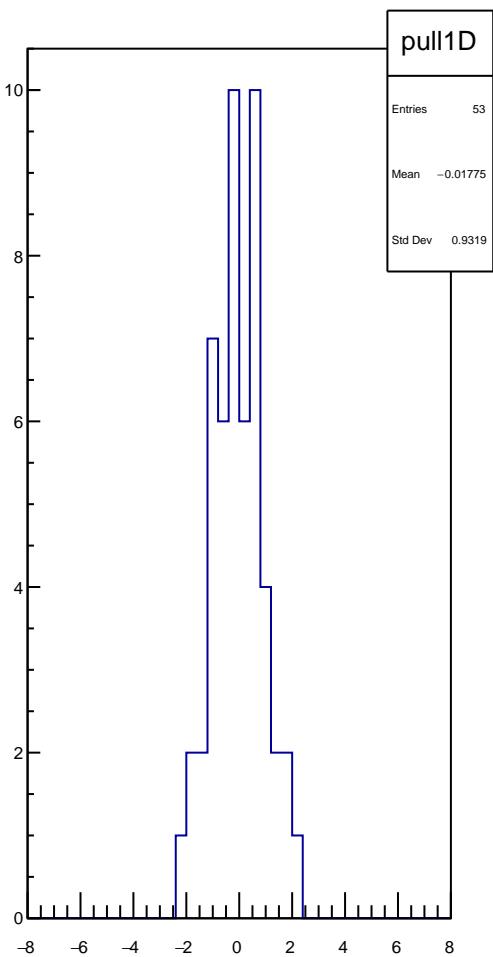
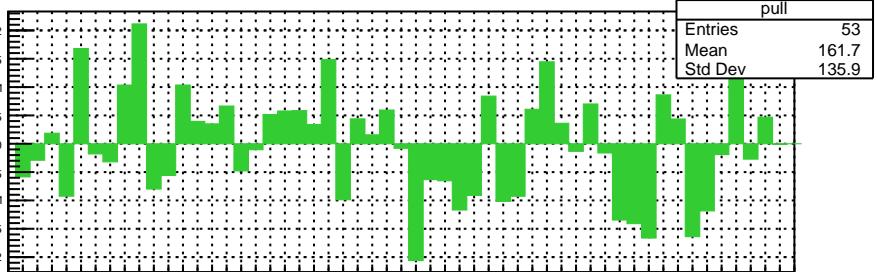
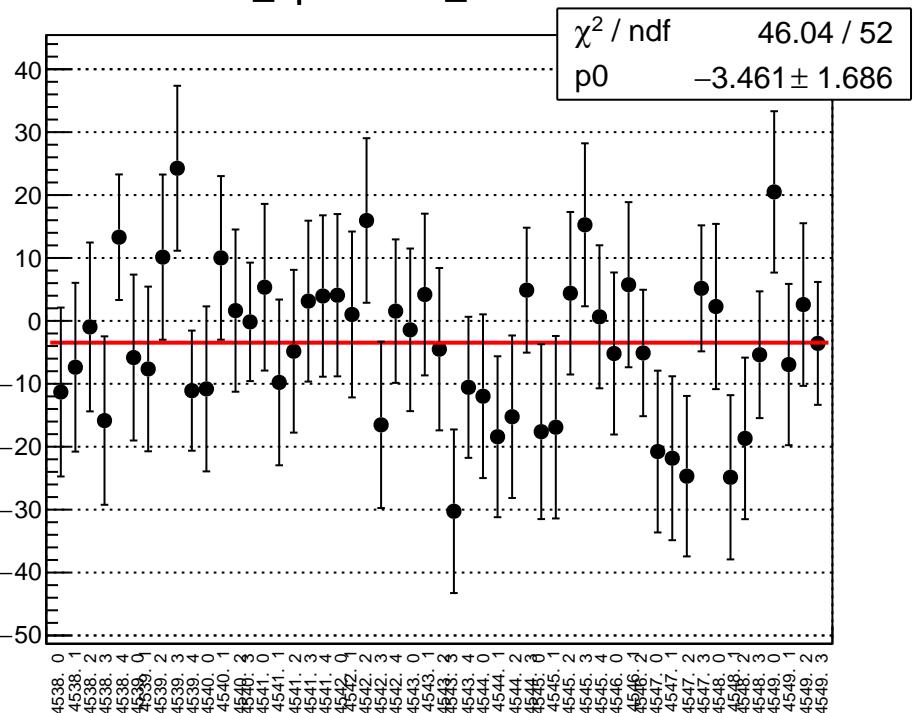
# diff\_bpm0l01Y\_mean vs run



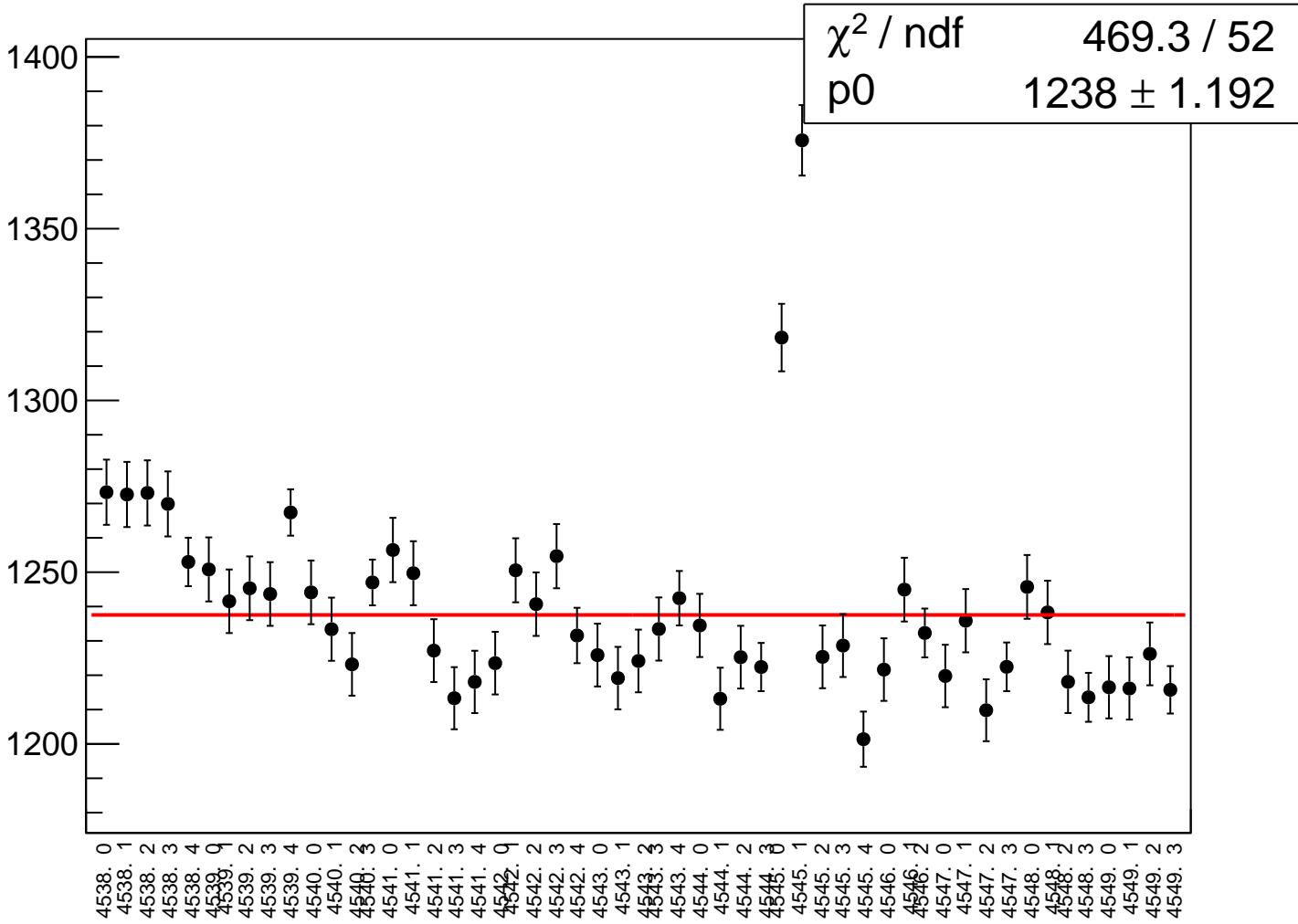
# diff\_bpm0I01Y\_rms vs run



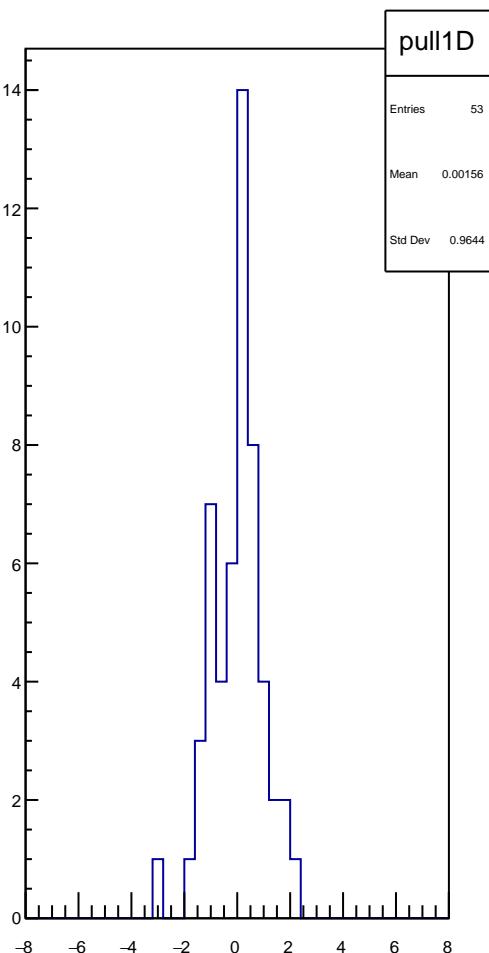
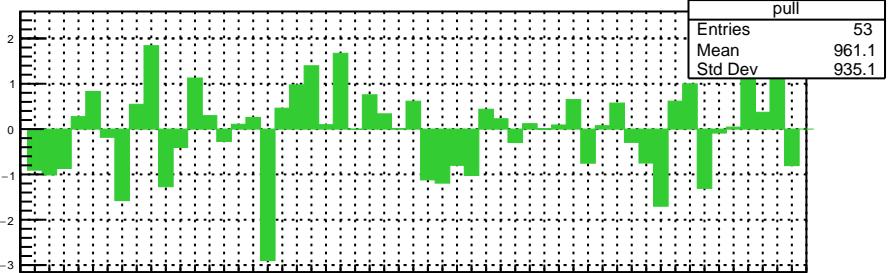
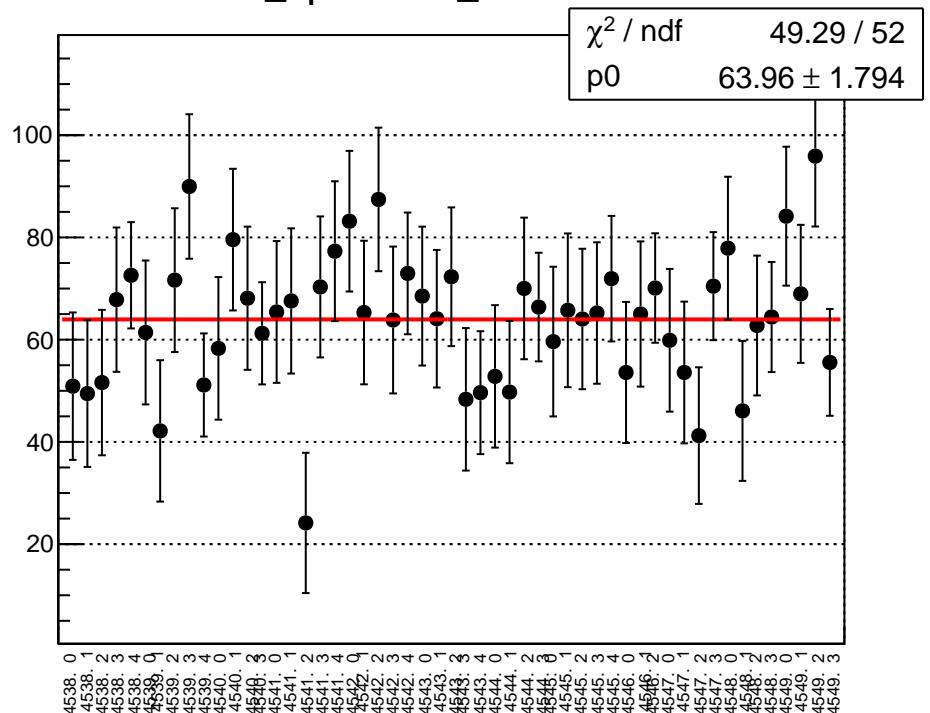
# diff\_bpm2i01X\_mean vs run



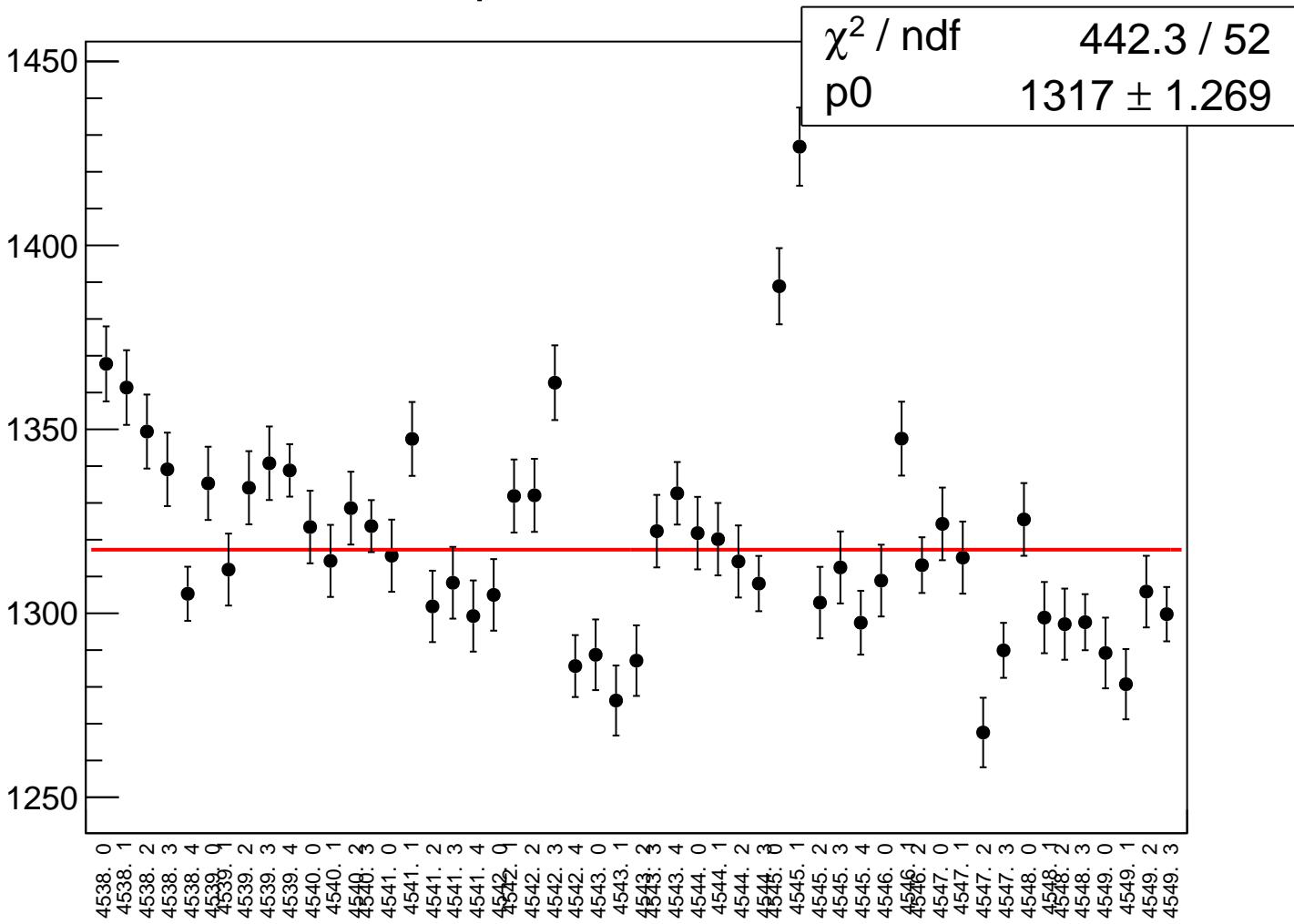
# diff\_bpm2i01X\_rms vs run



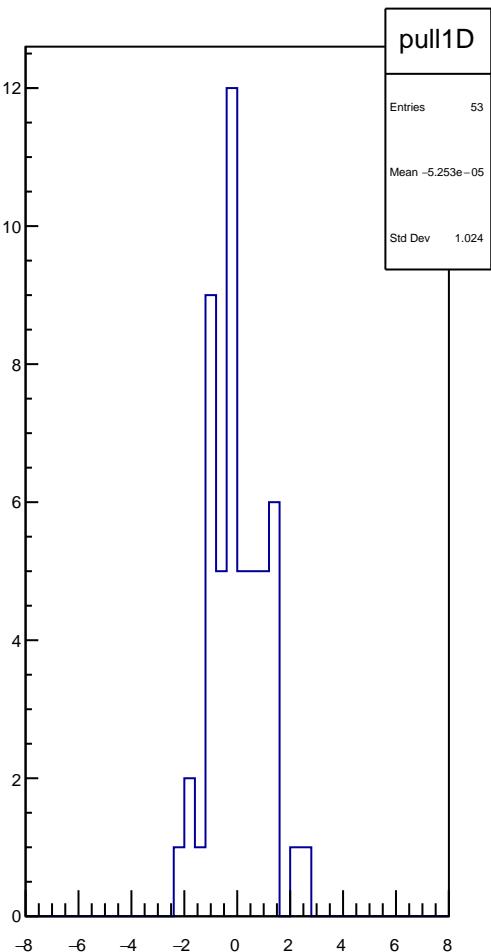
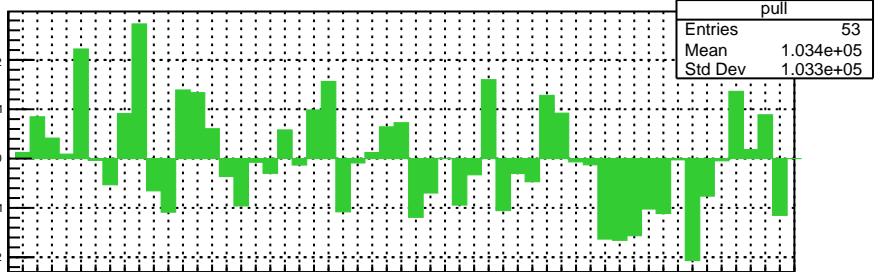
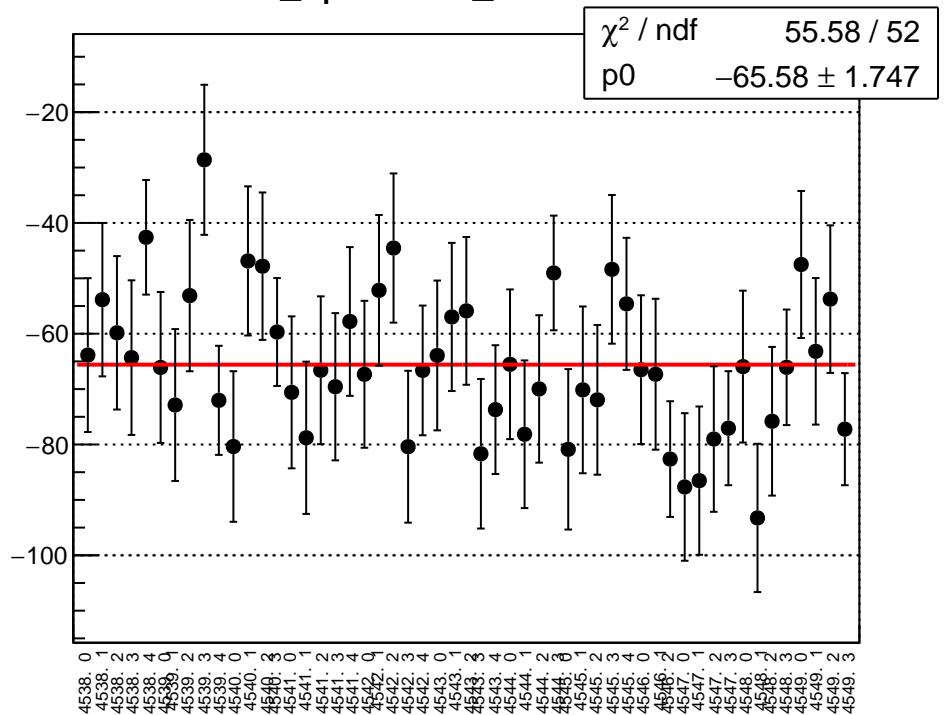
# diff\_bpm2i01Y\_mean vs run



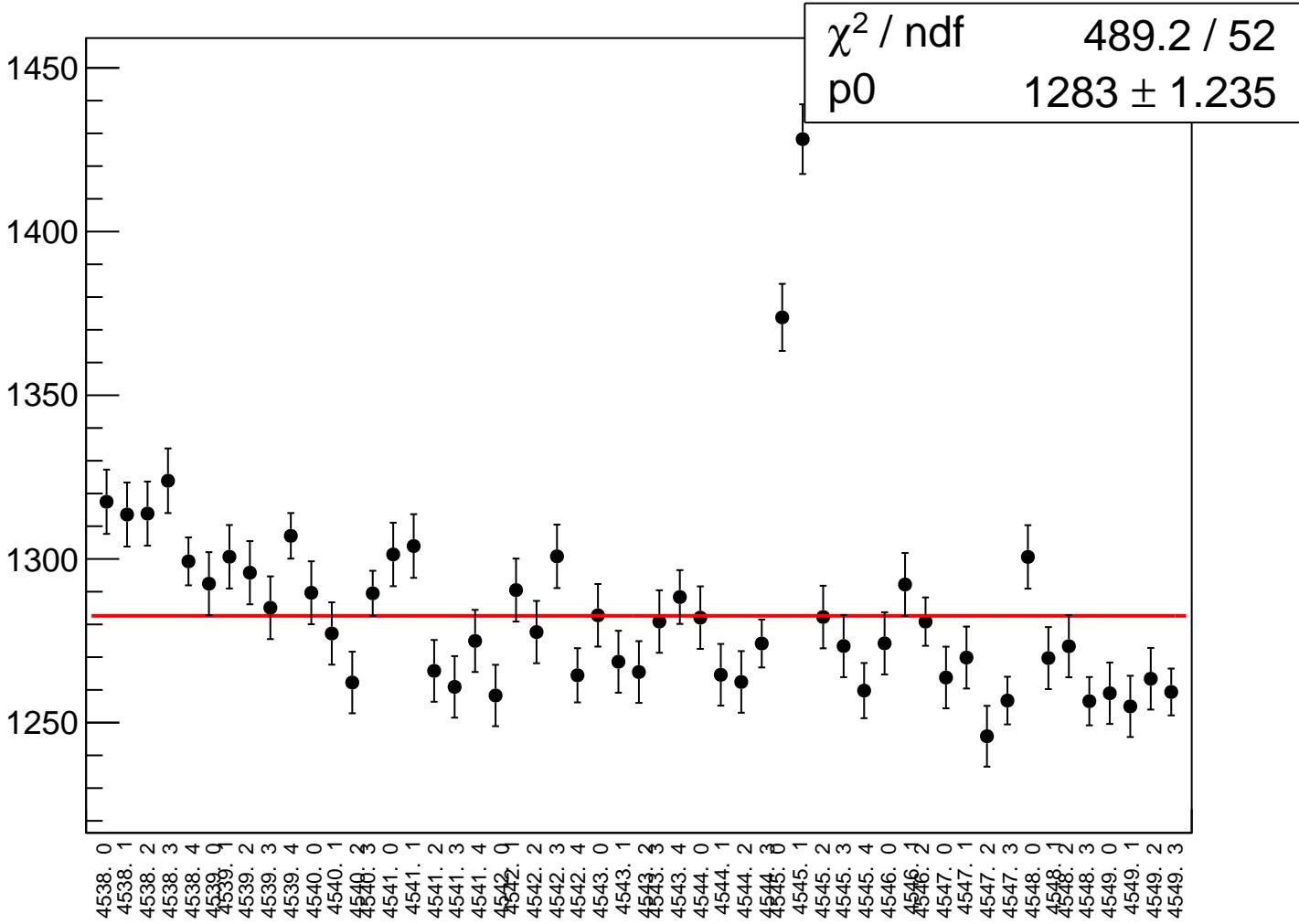
# diff\_bpm2i01Y\_rms vs run



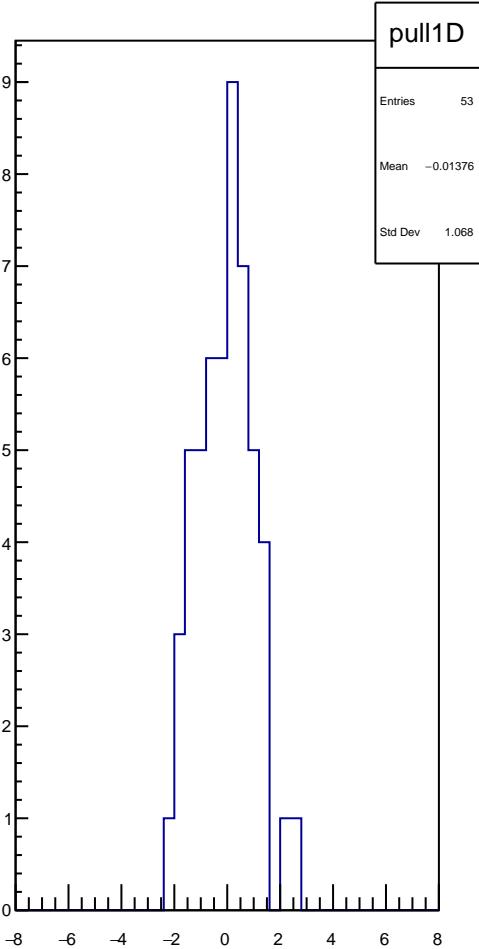
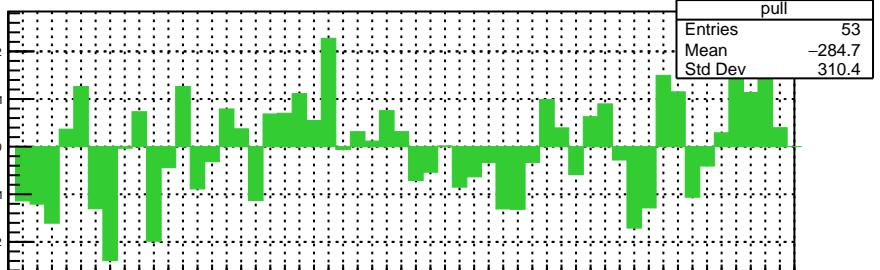
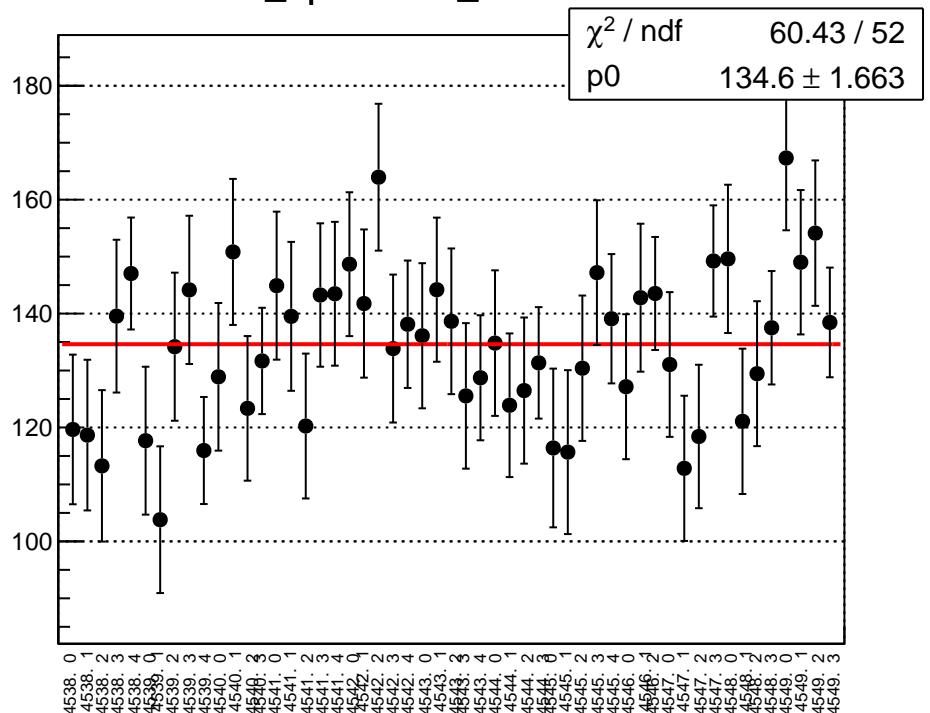
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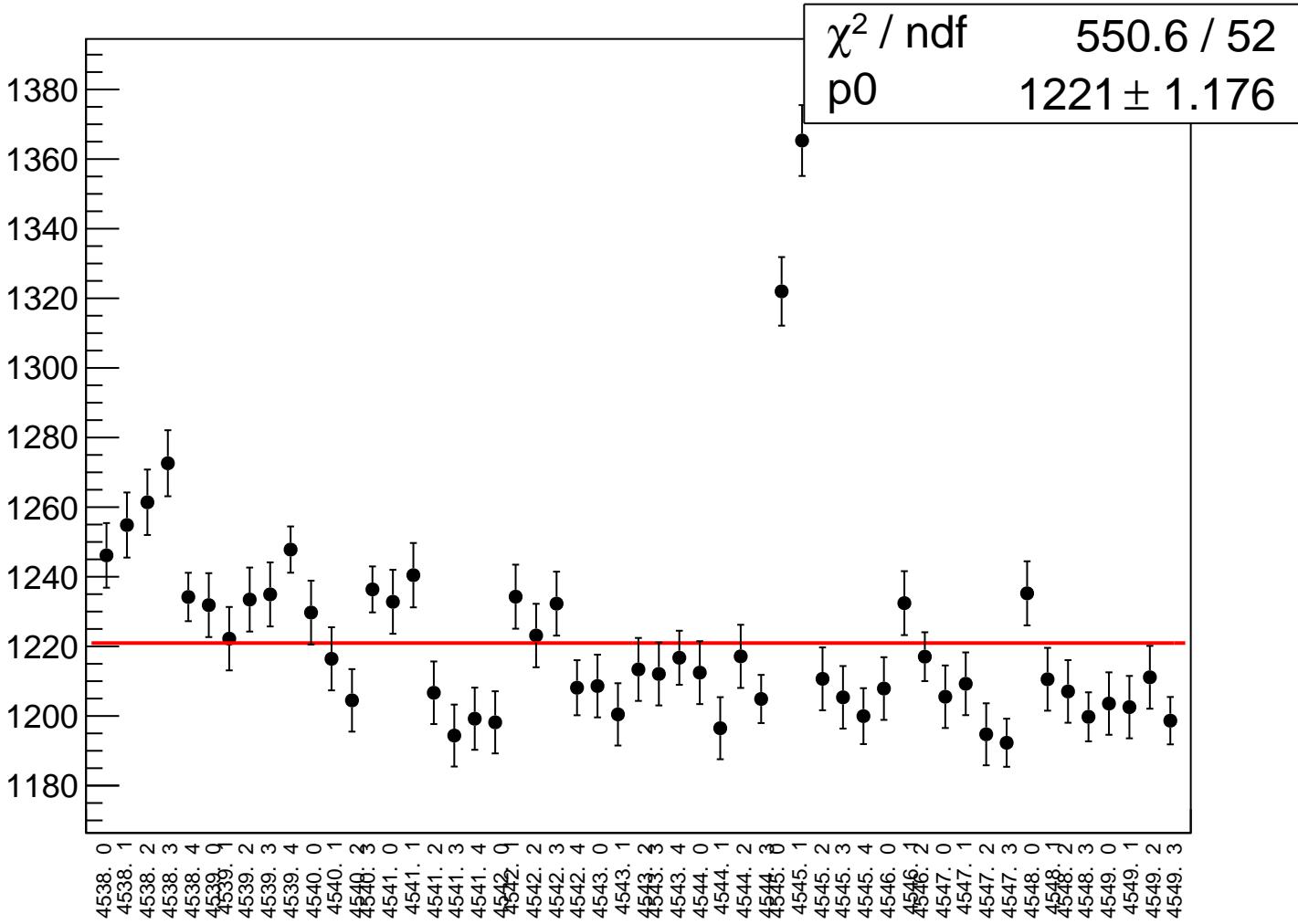
# diff\_bpm2i02X\_rms vs run



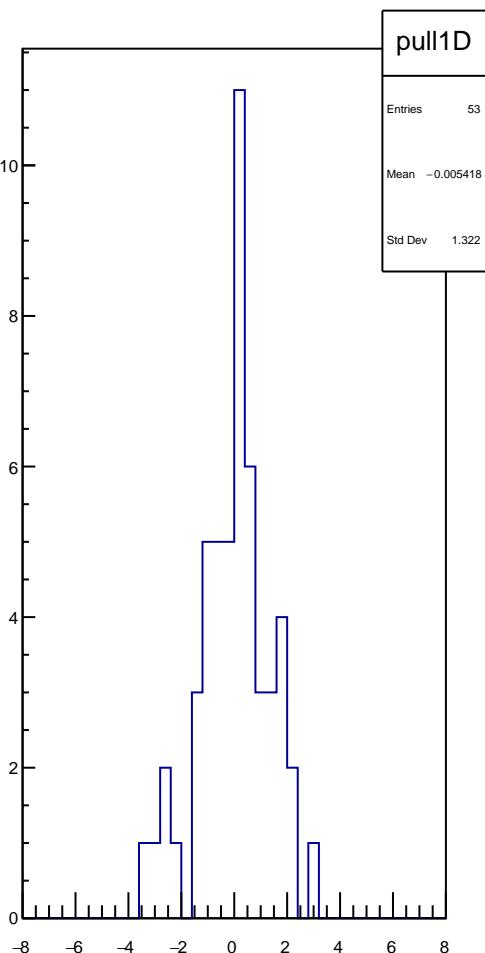
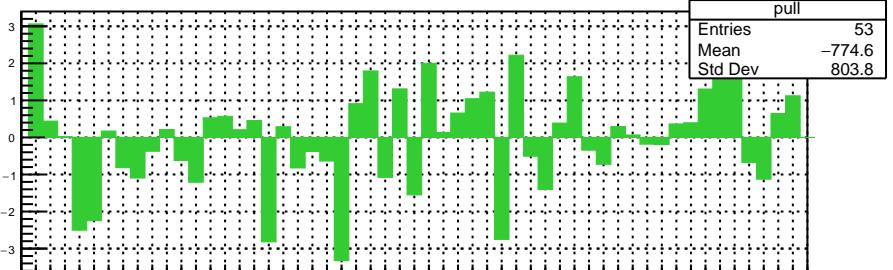
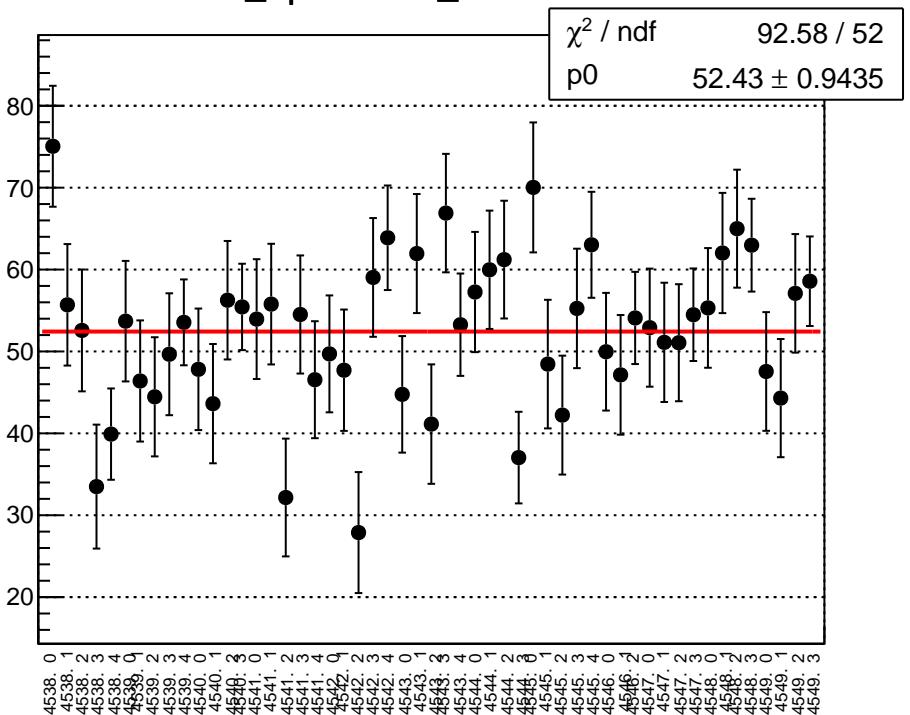
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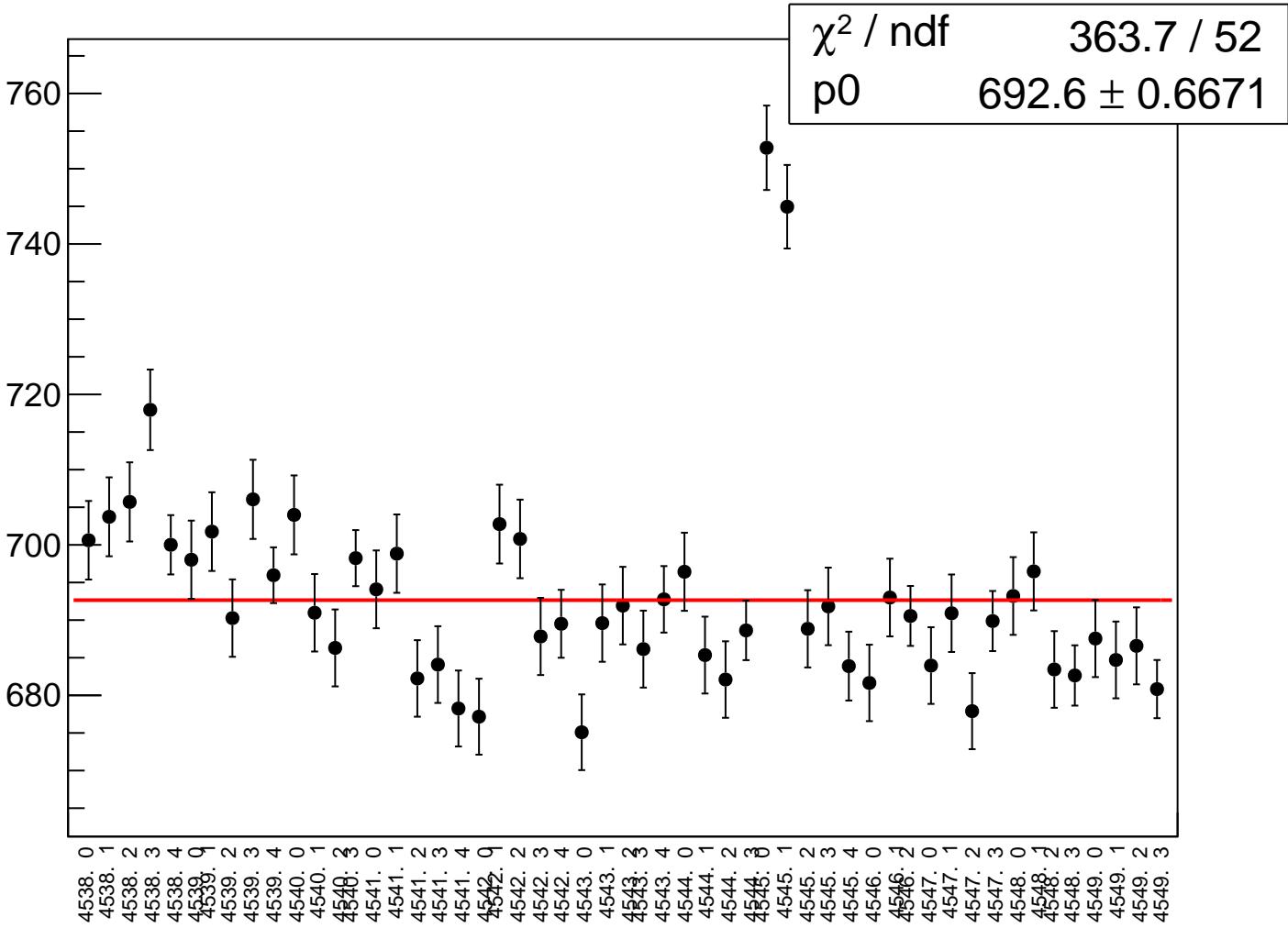
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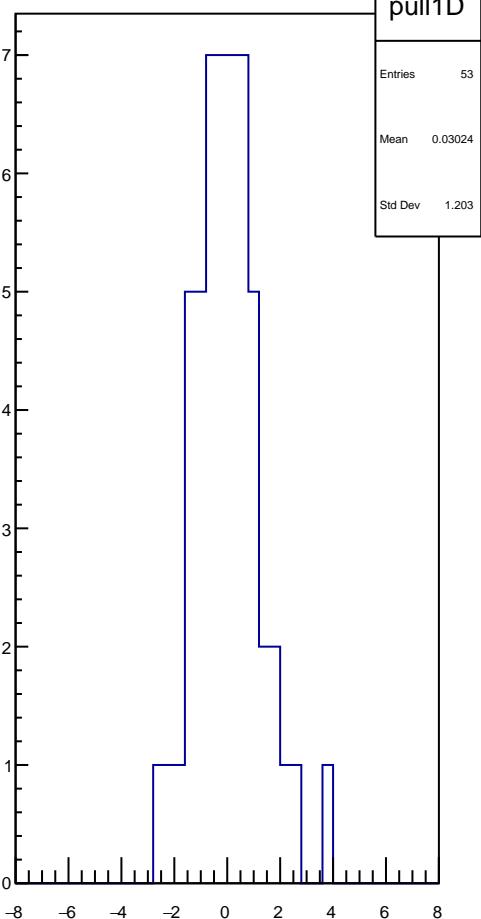
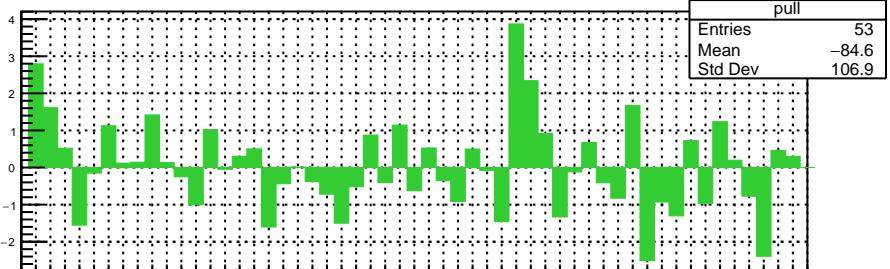
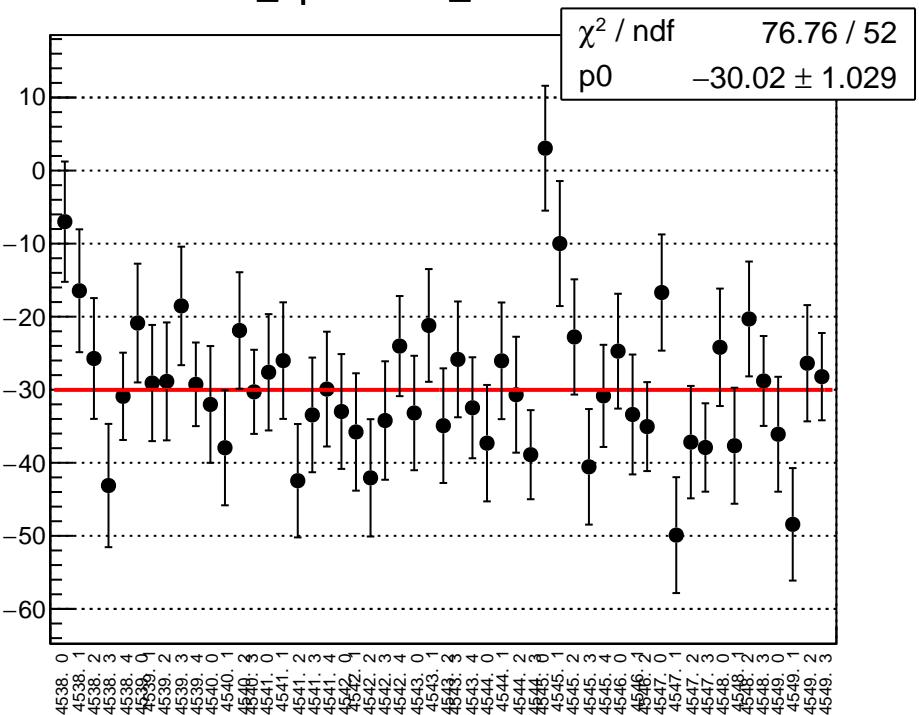
# diff\_bpm1i04X\_mean vs run



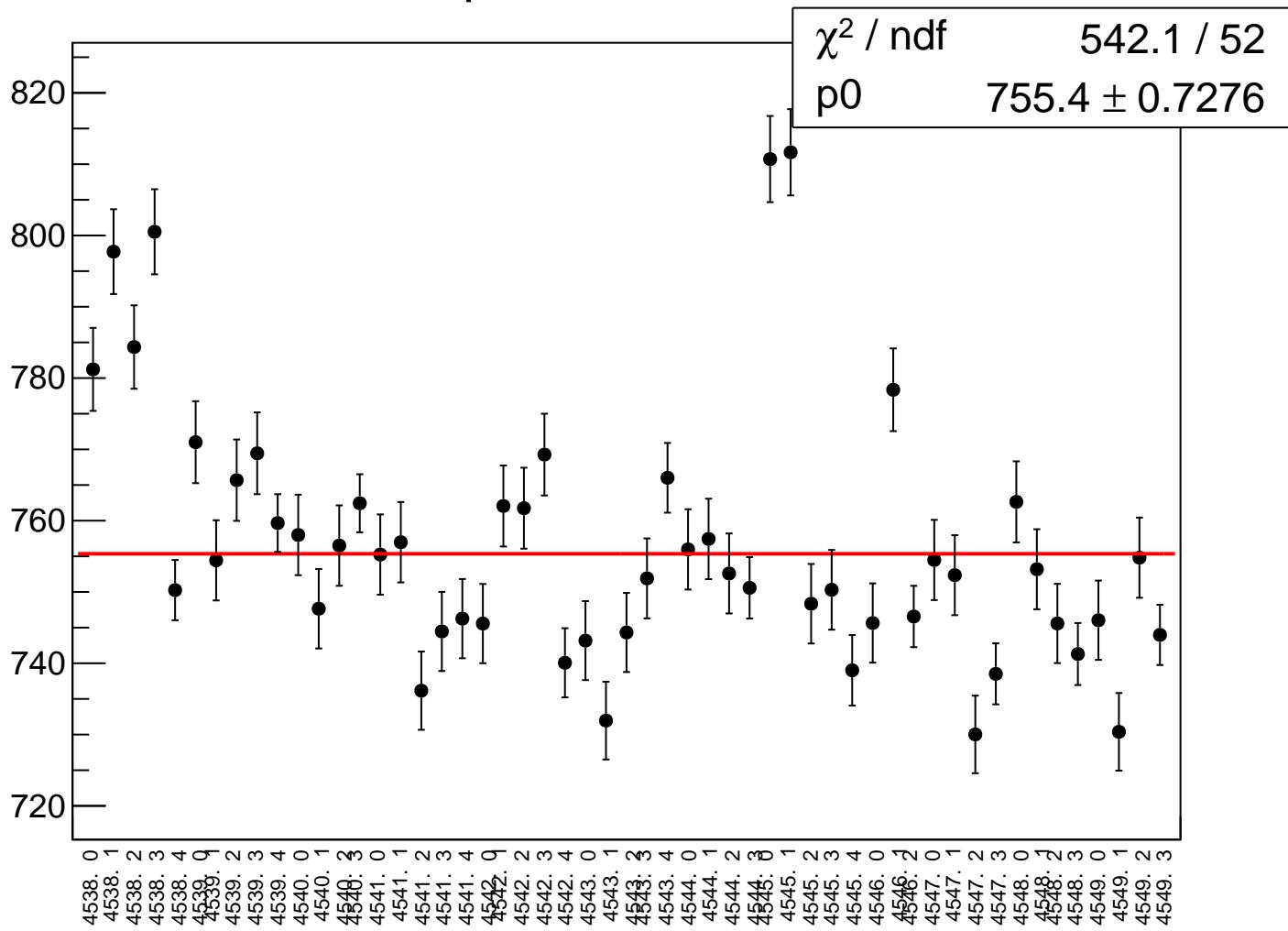
# diff\_bpm1i04X\_rms vs run



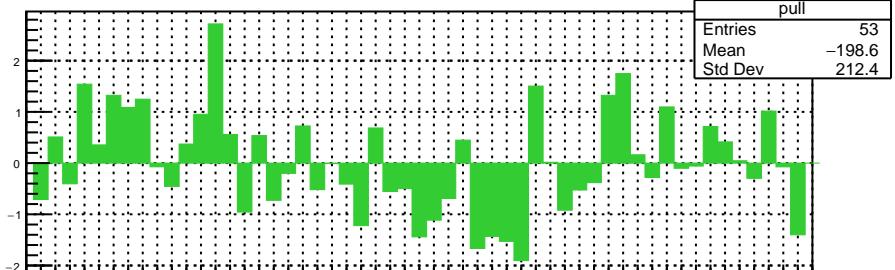
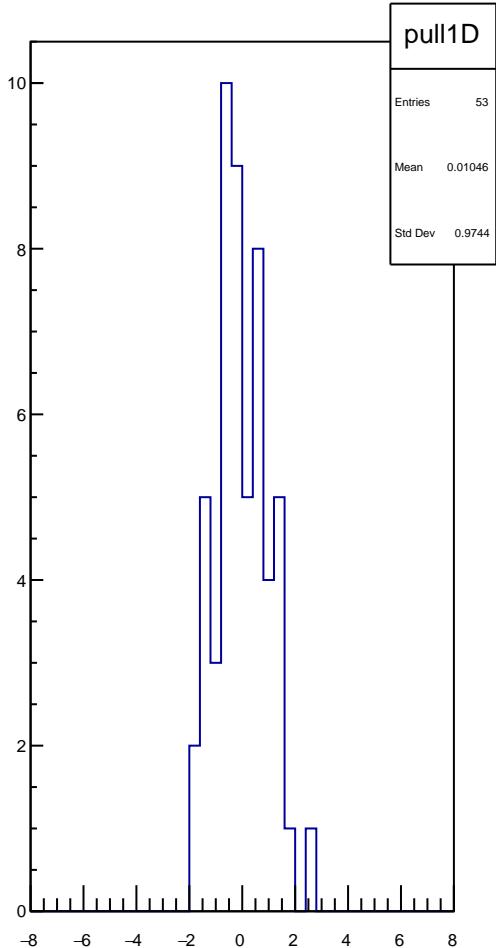
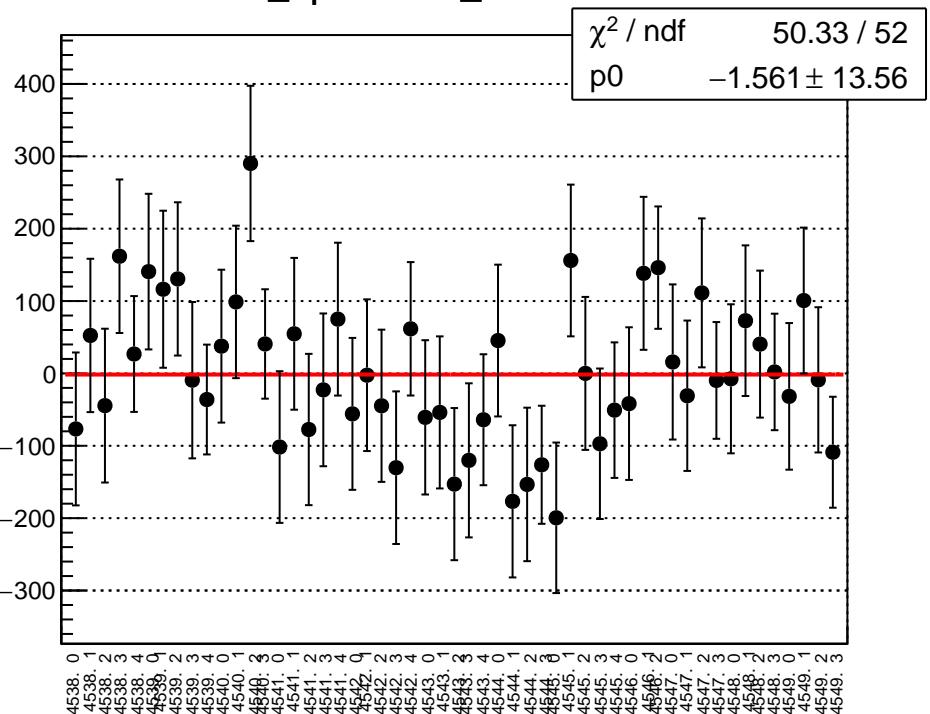
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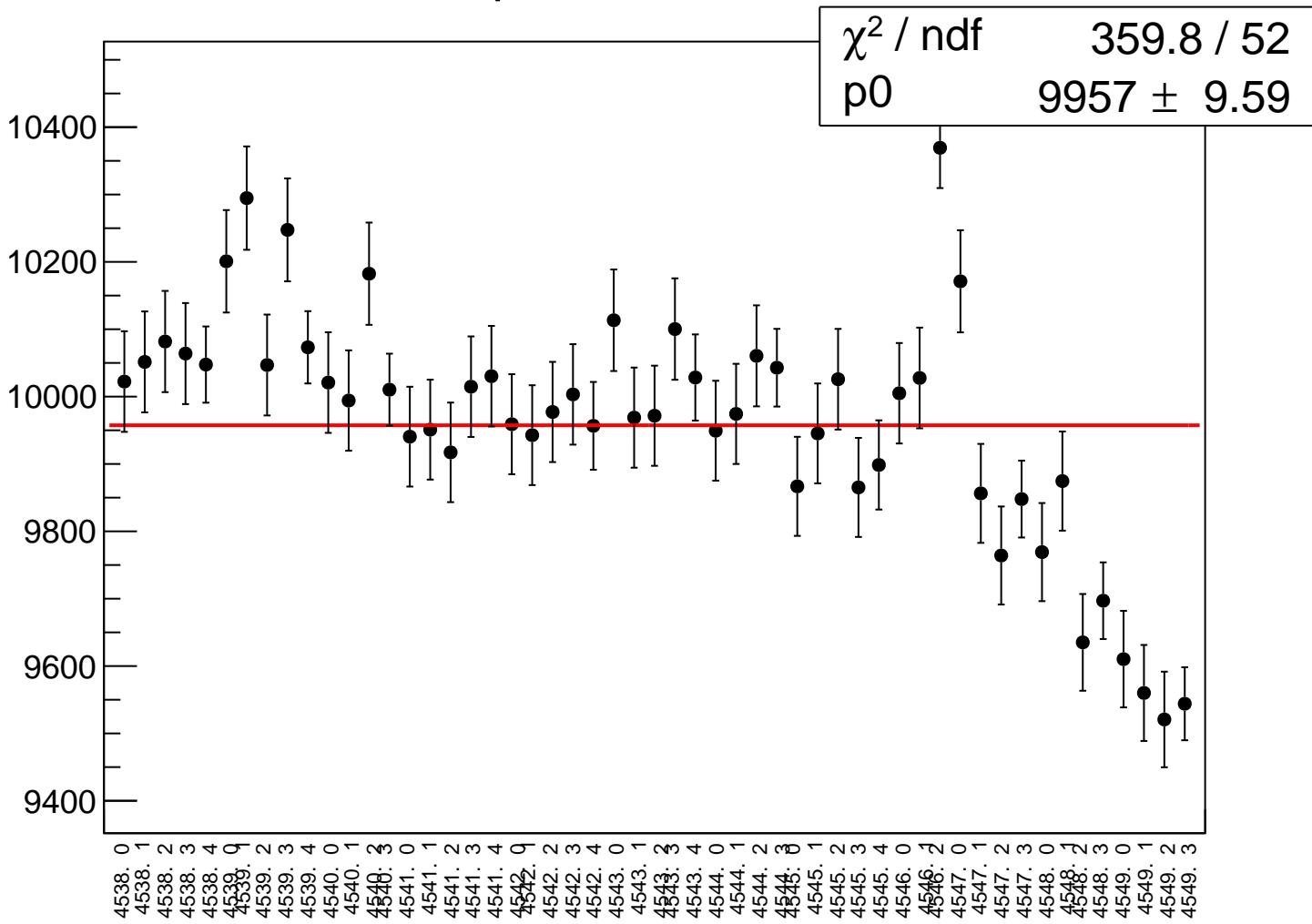
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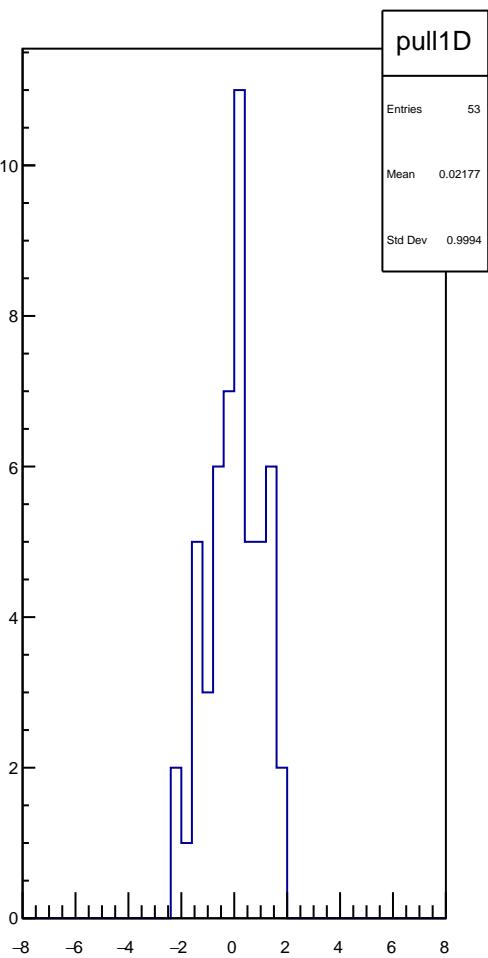
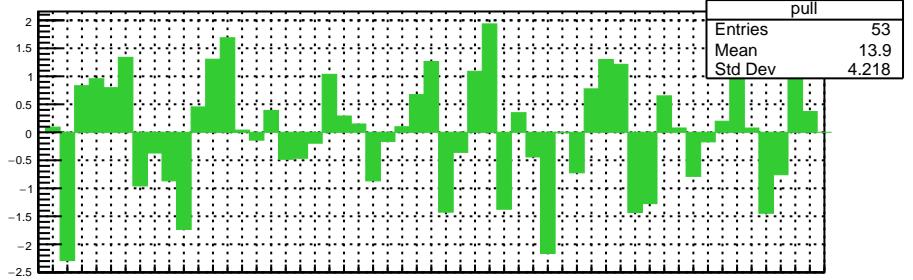
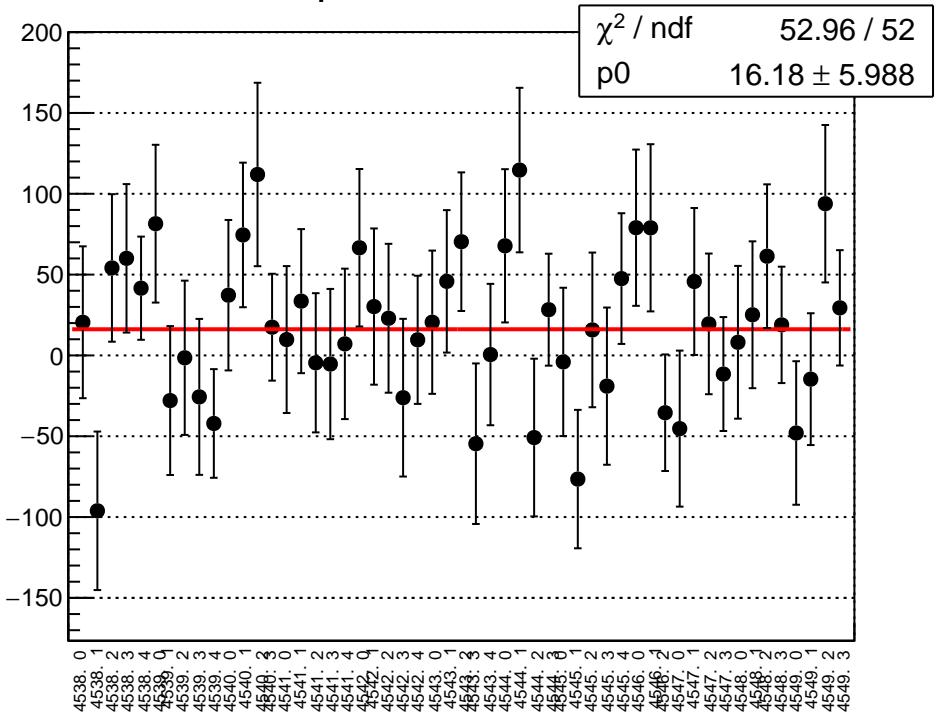
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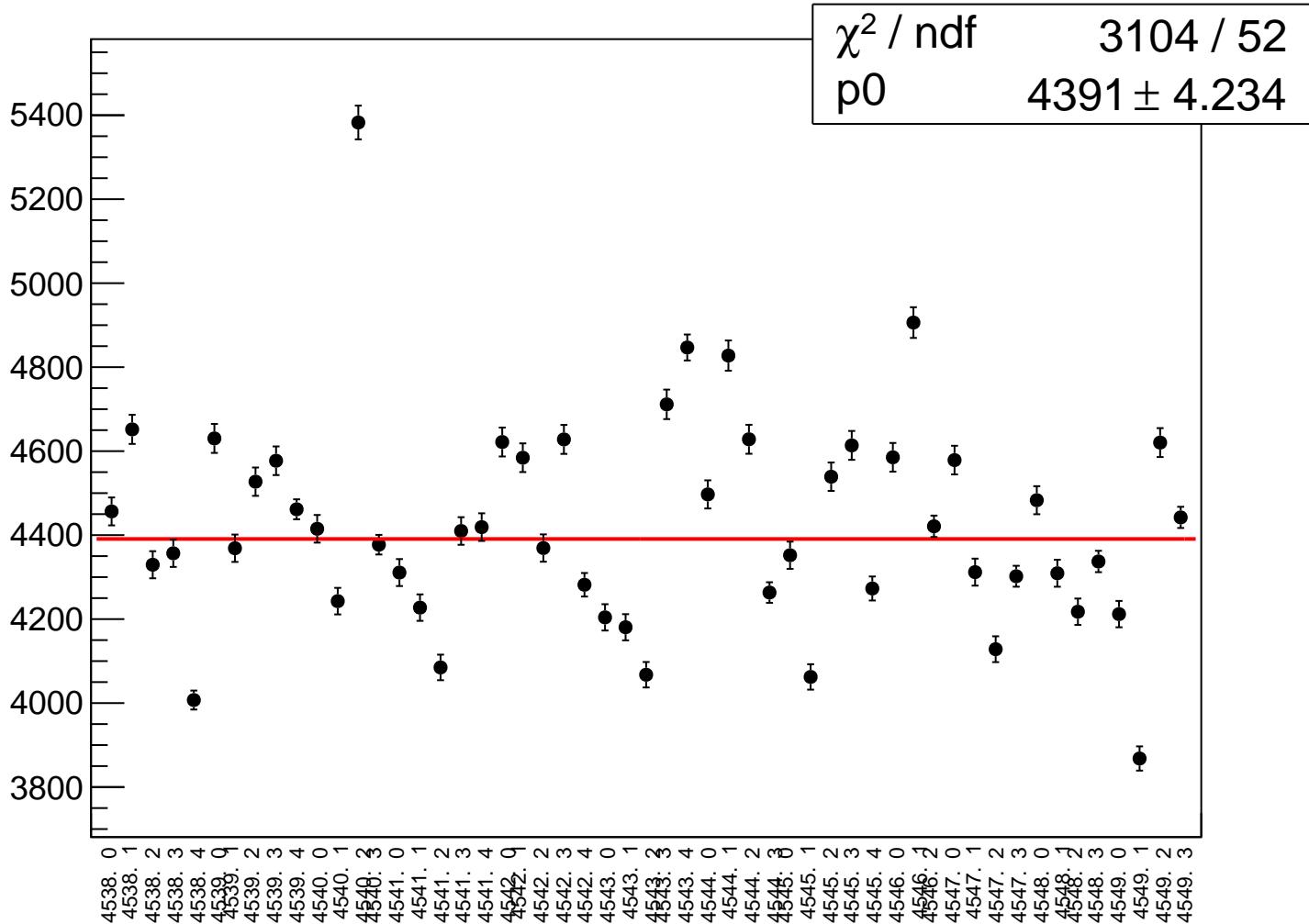
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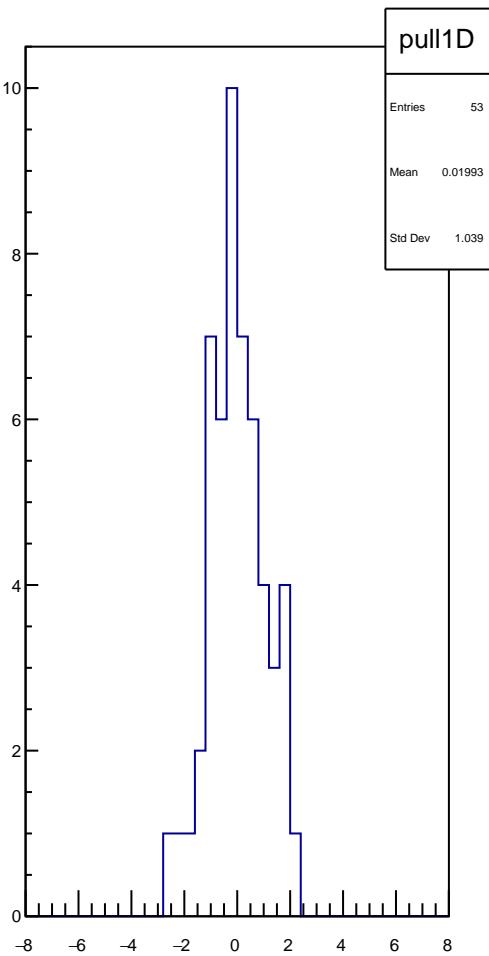
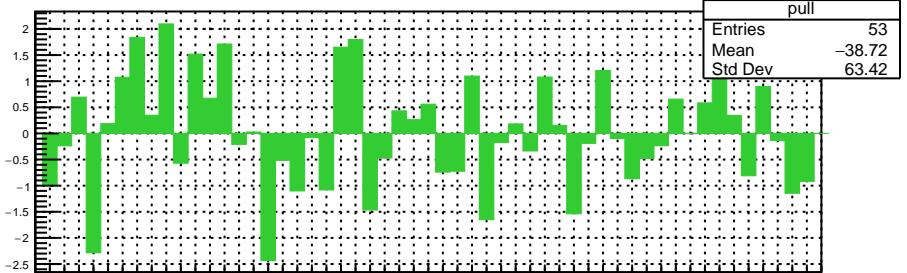
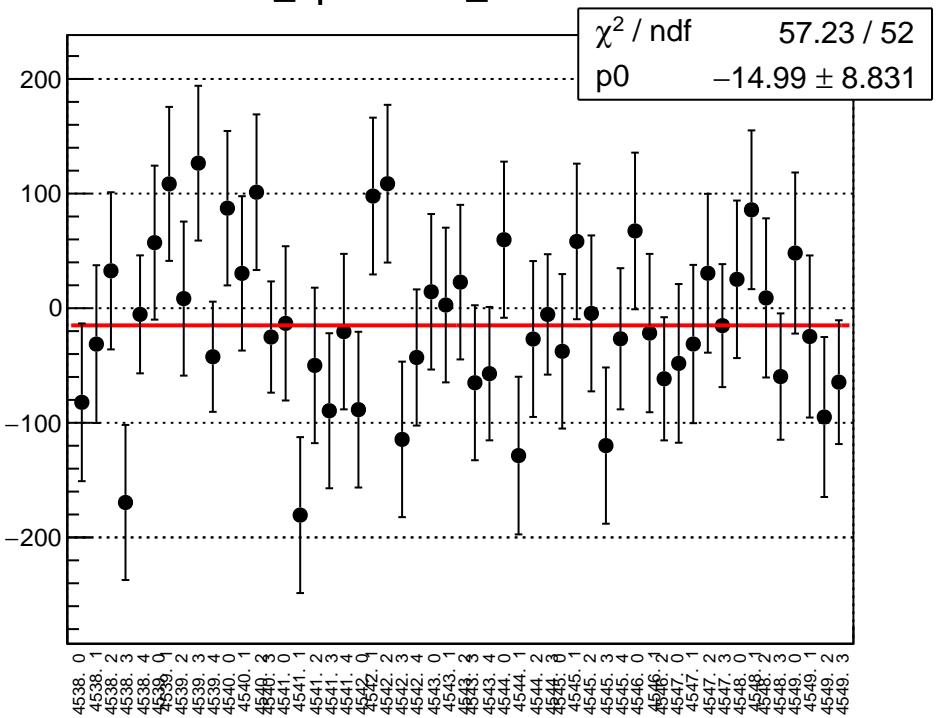
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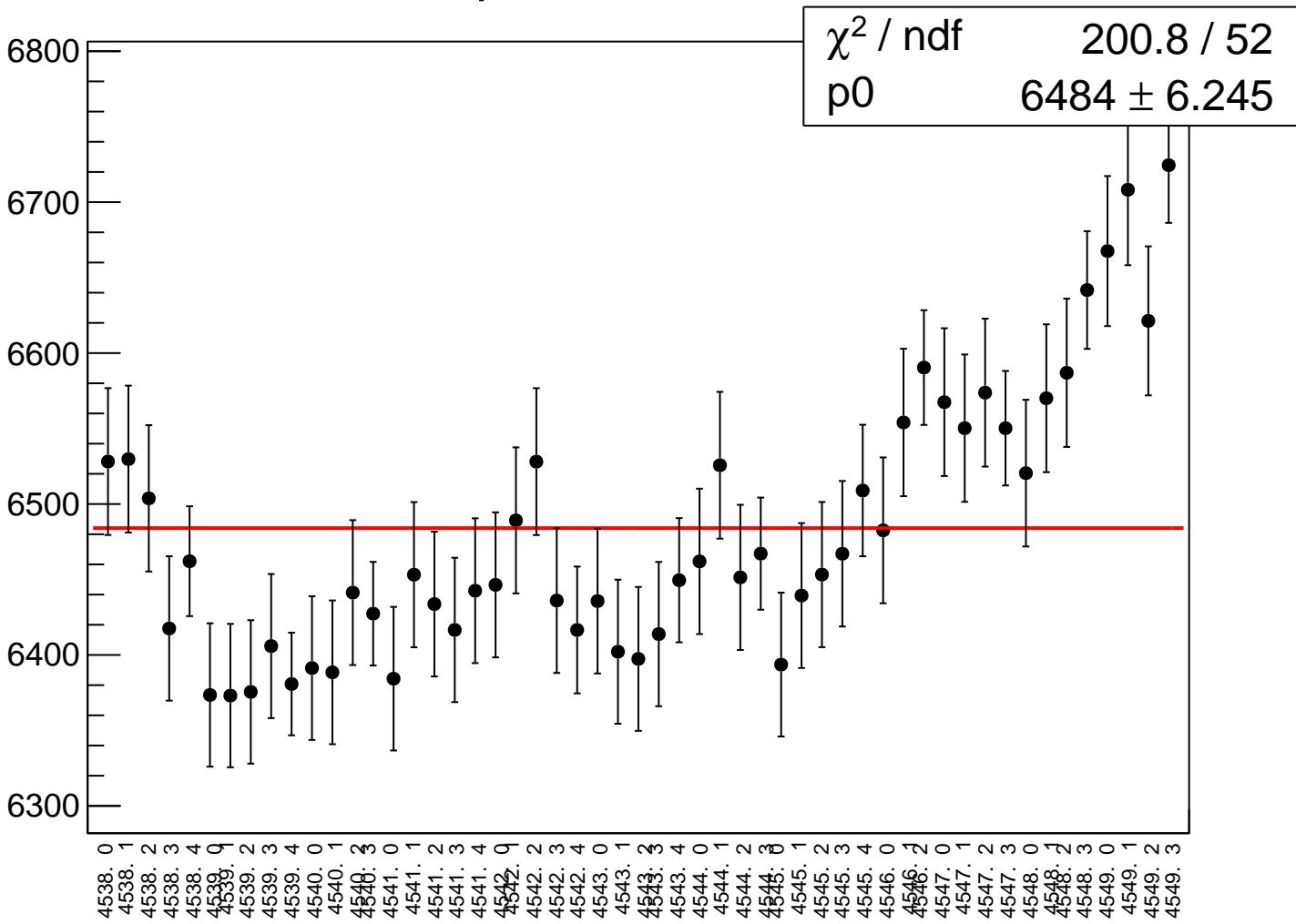
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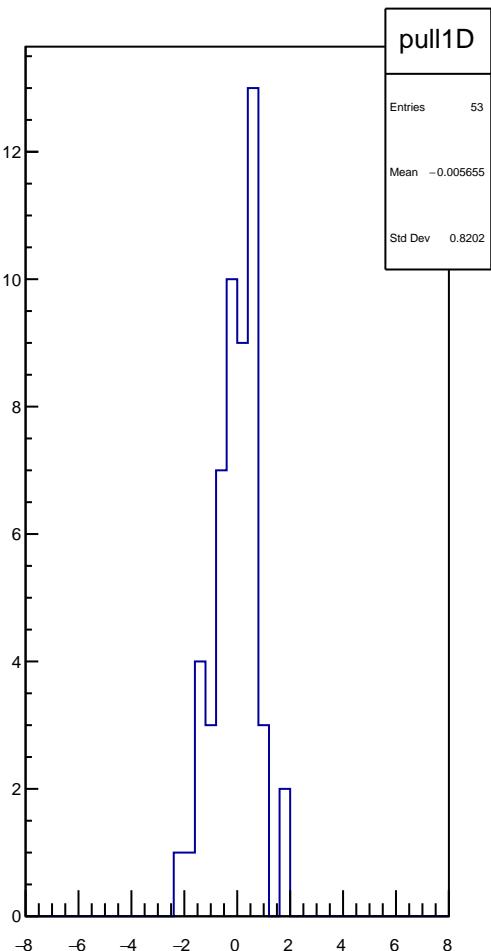
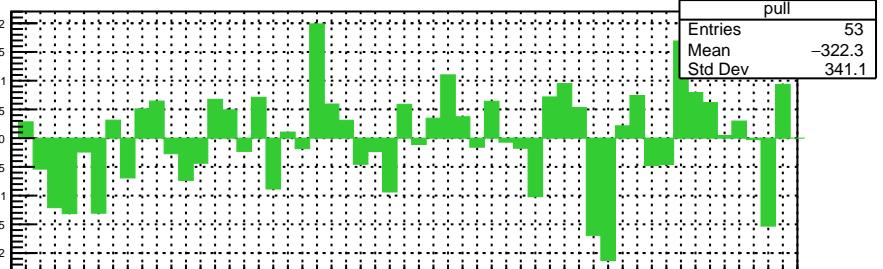
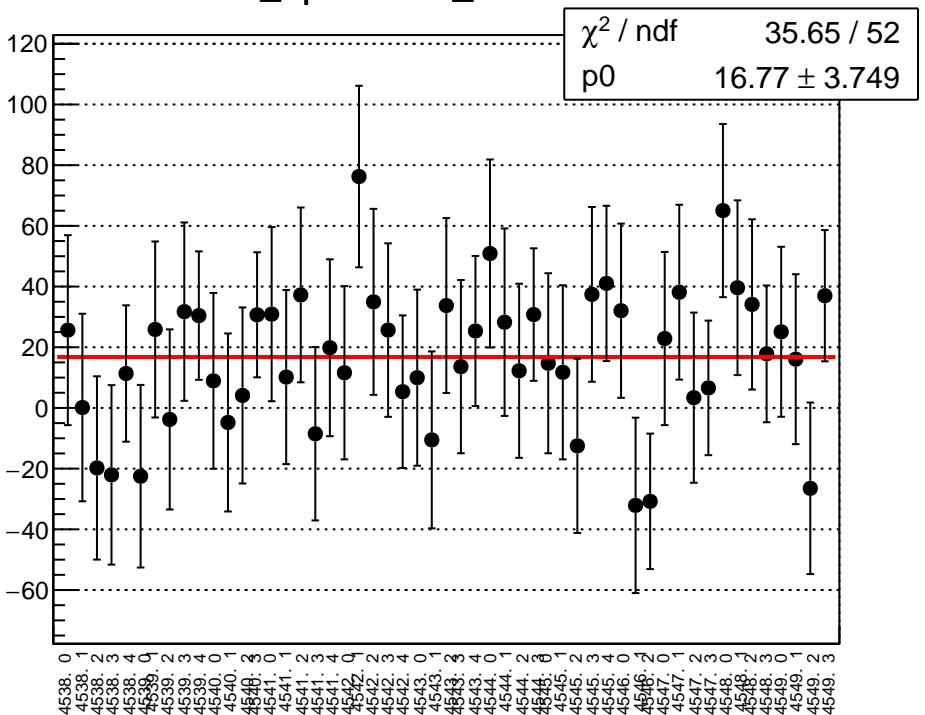
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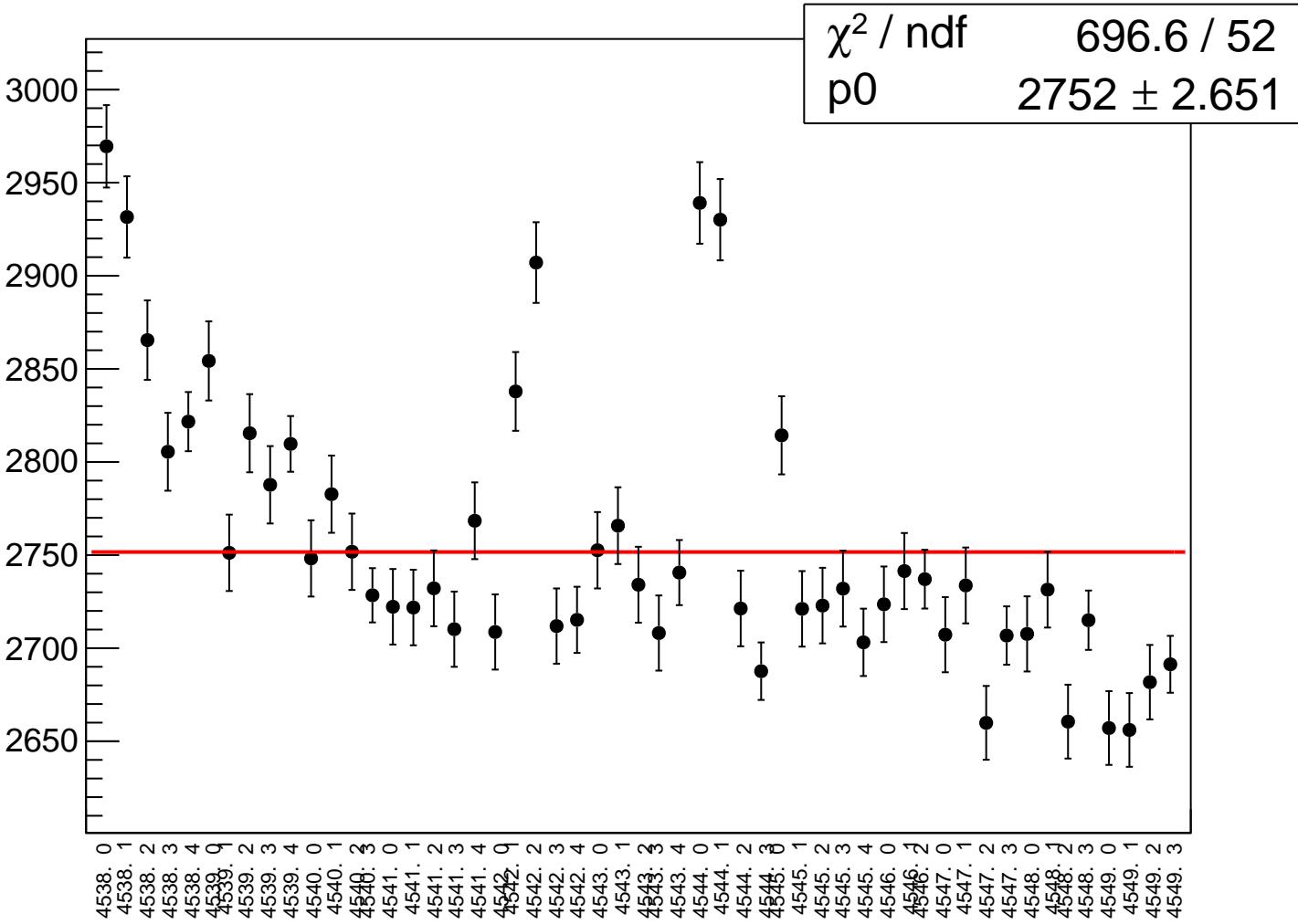
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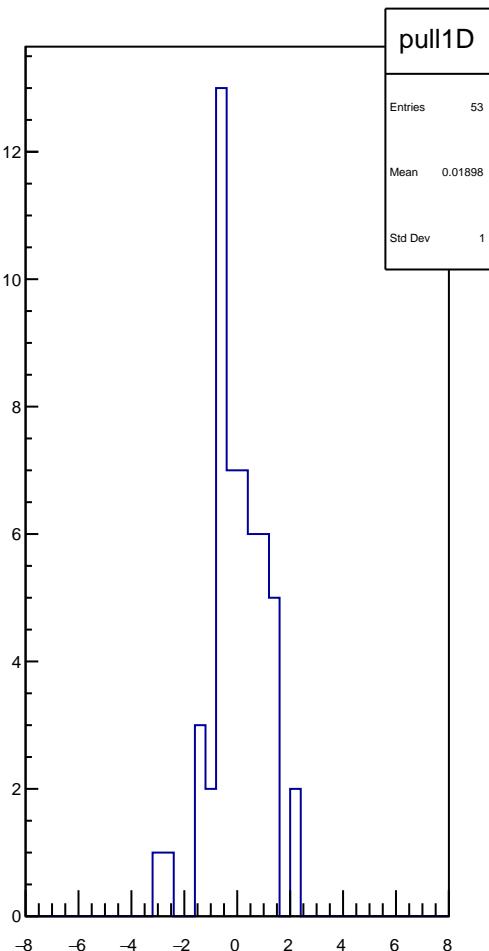
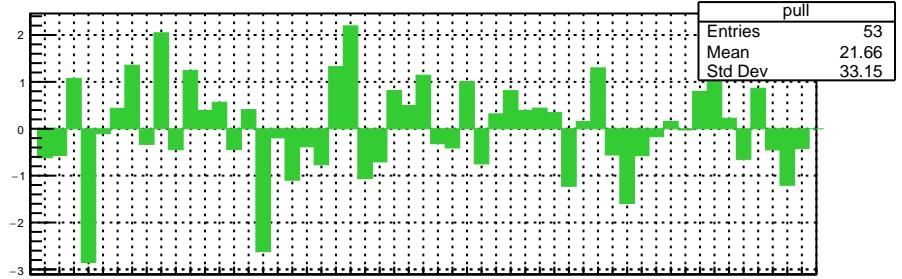
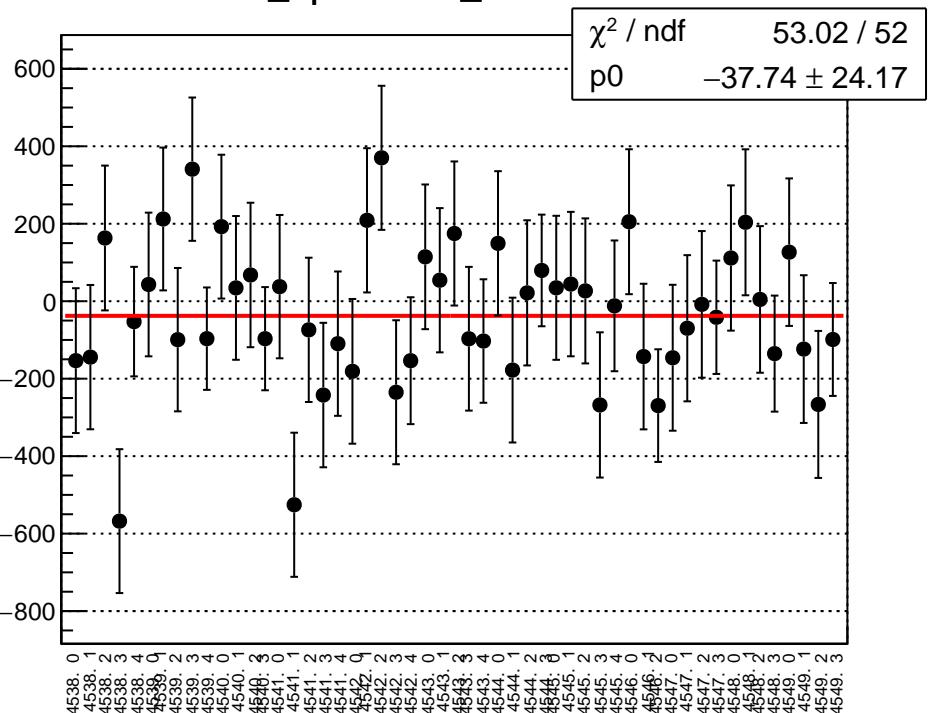
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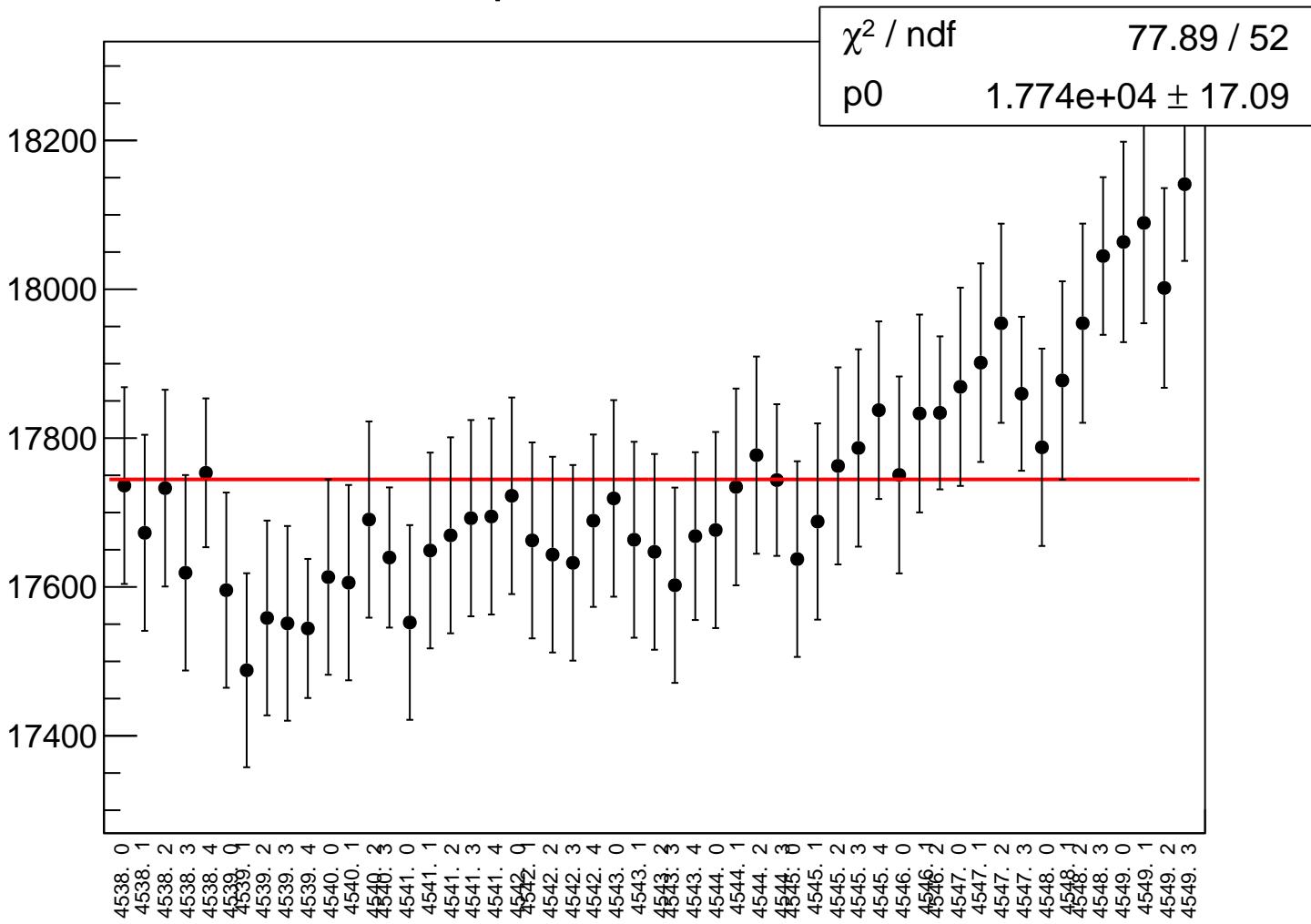
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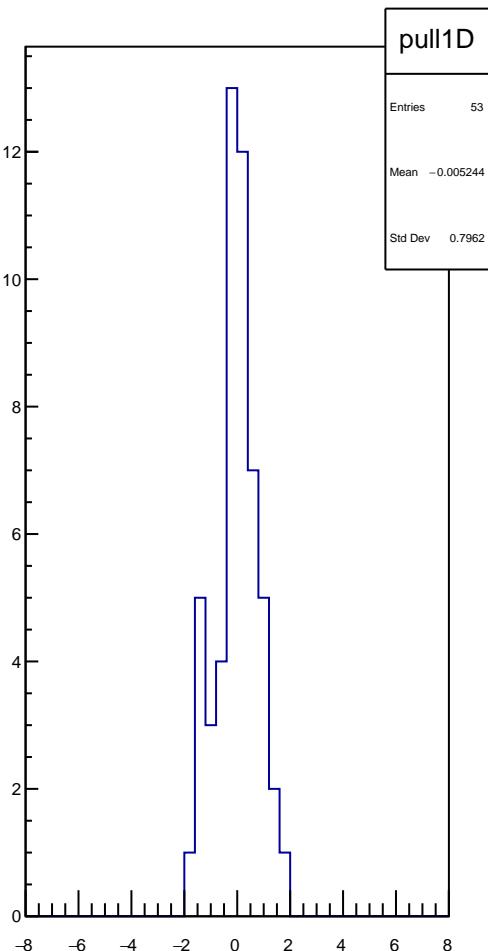
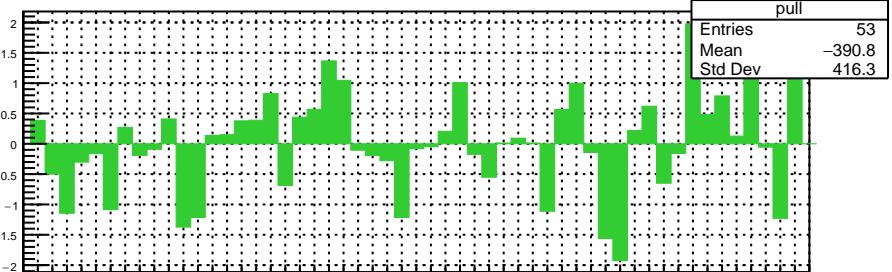
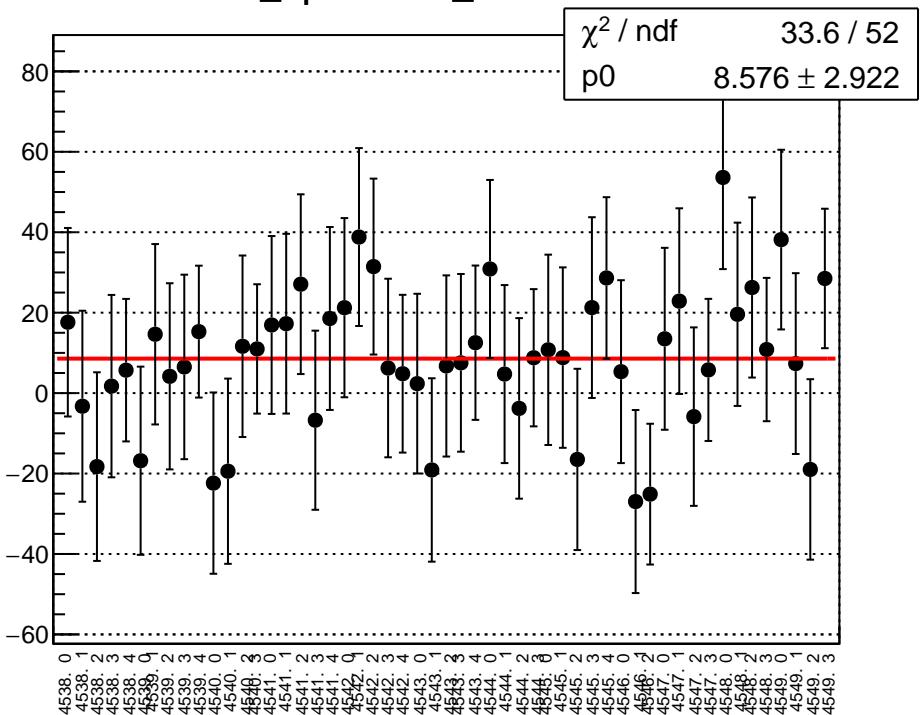
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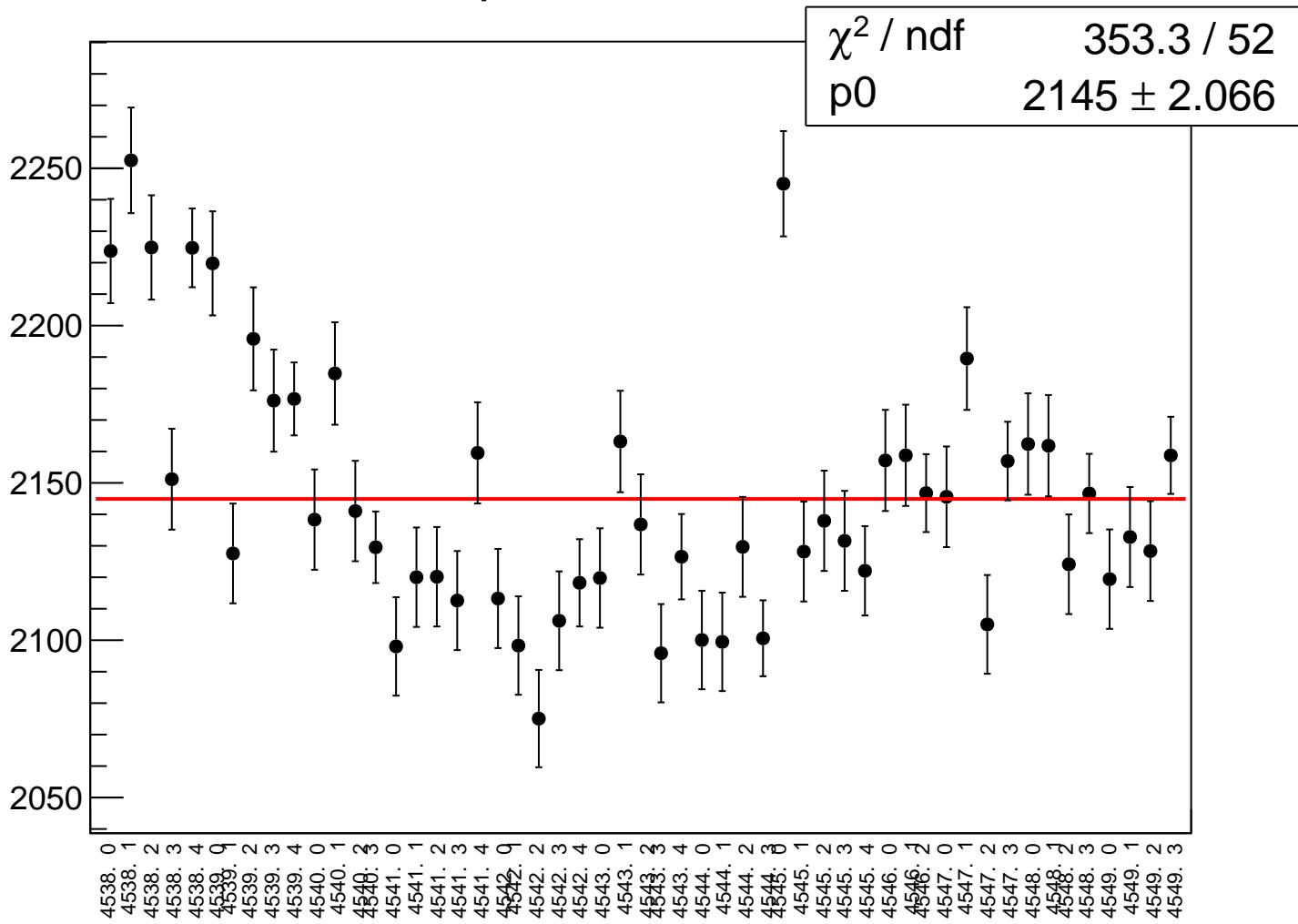
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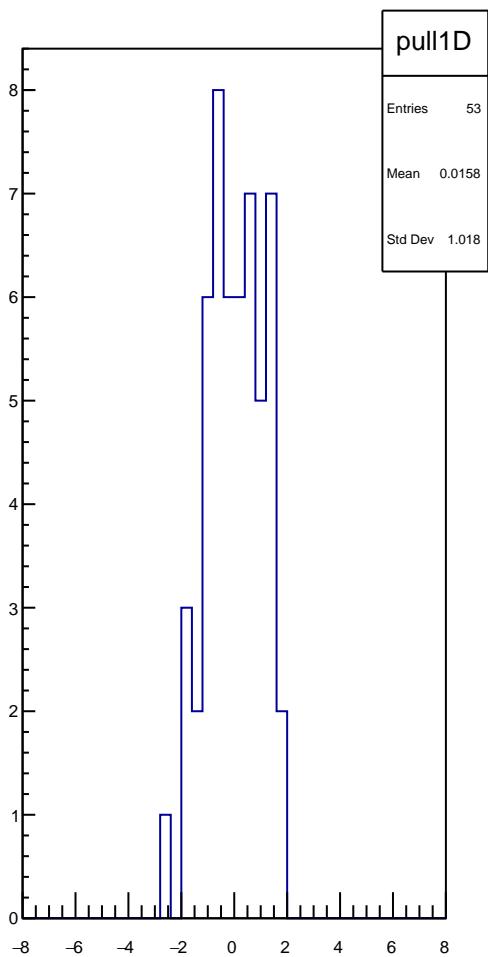
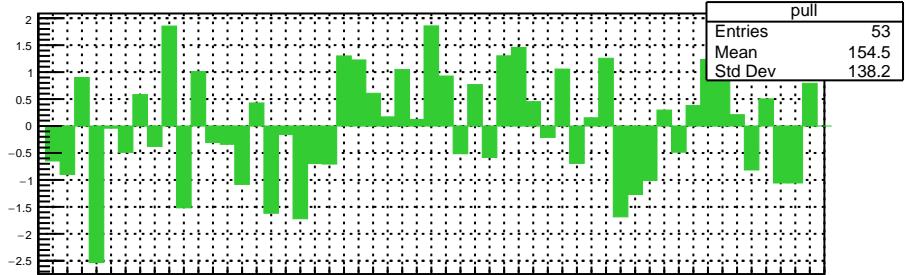
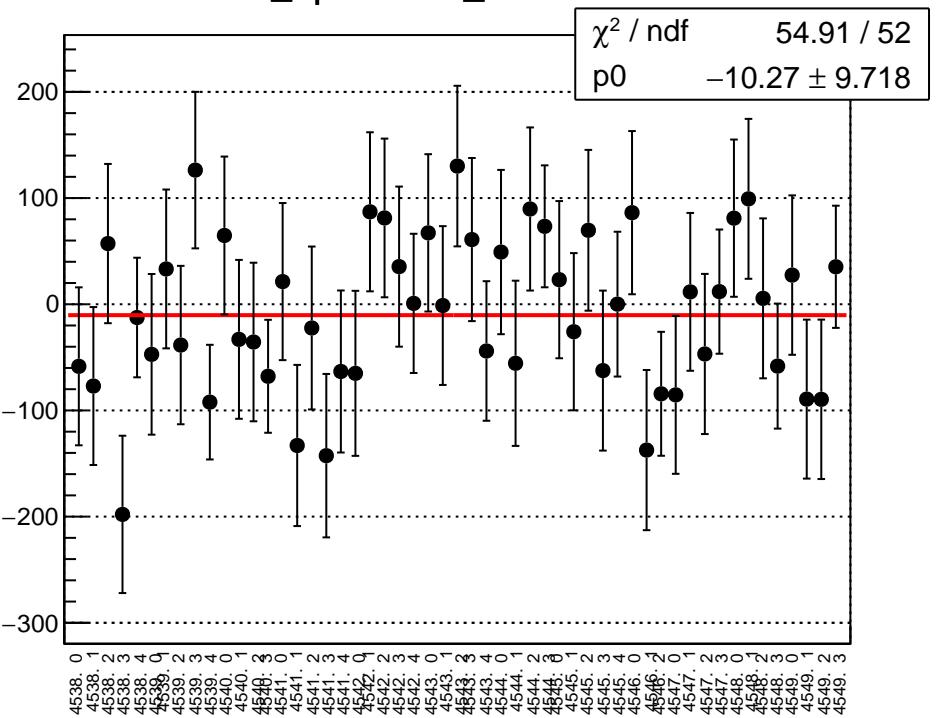
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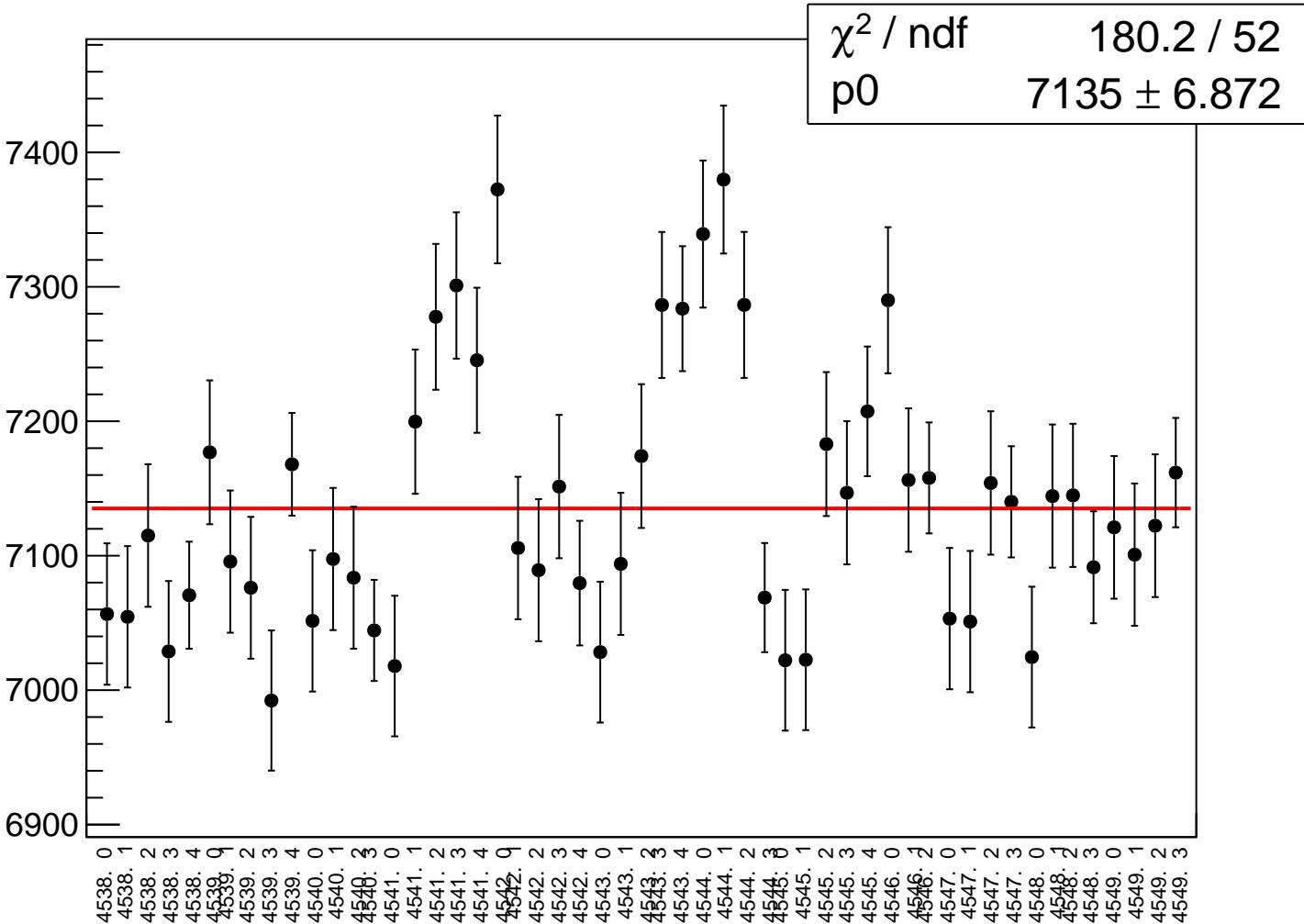
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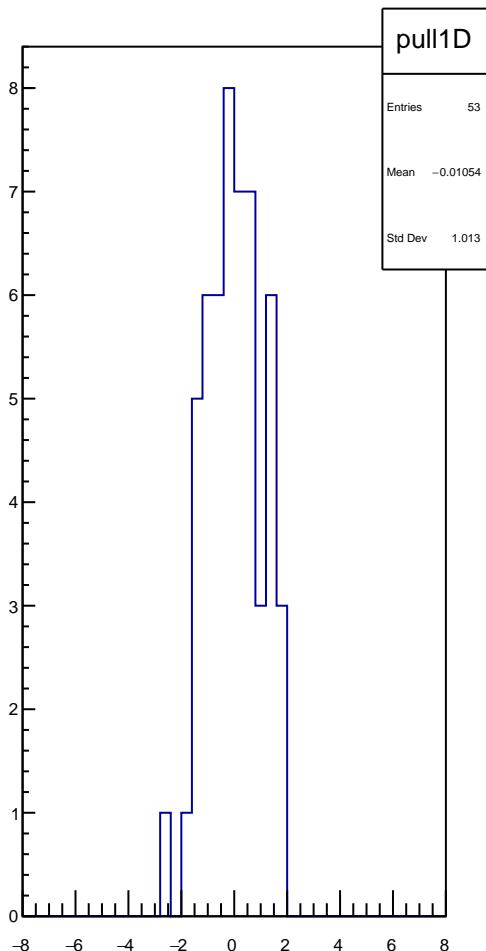
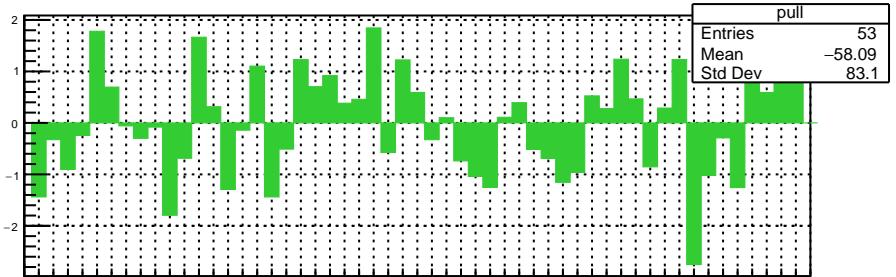
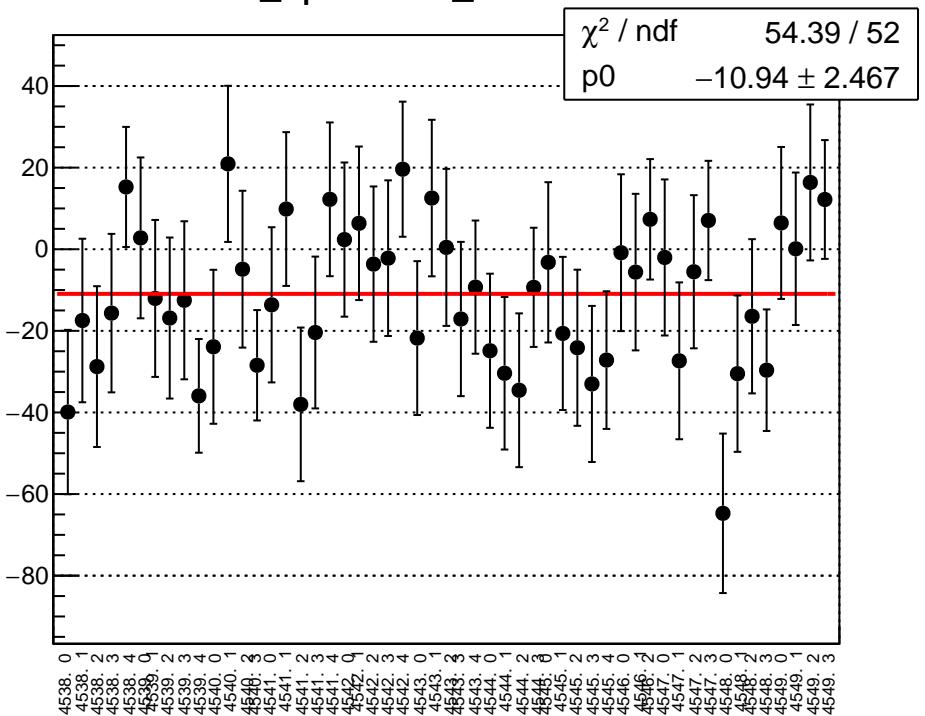
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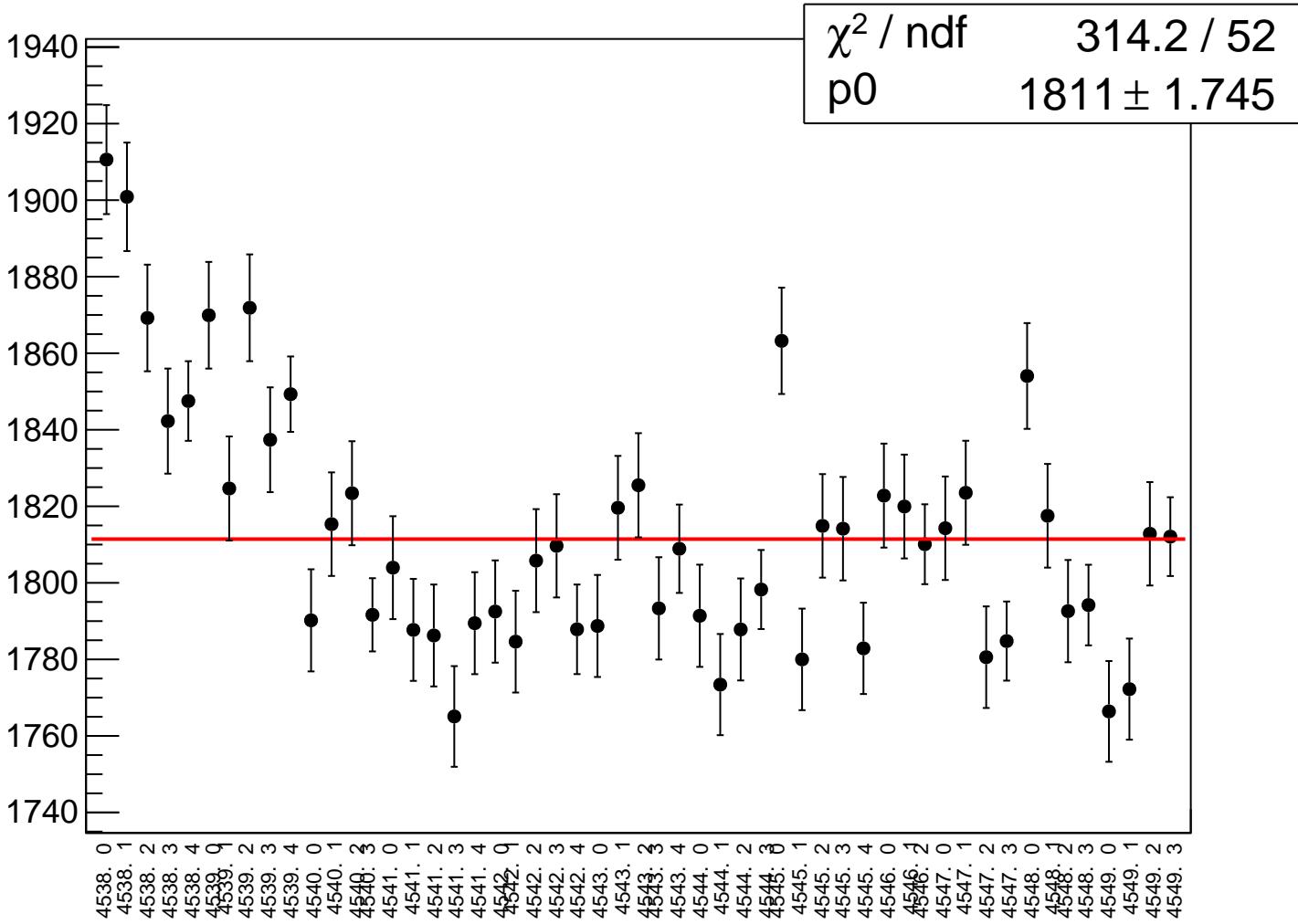
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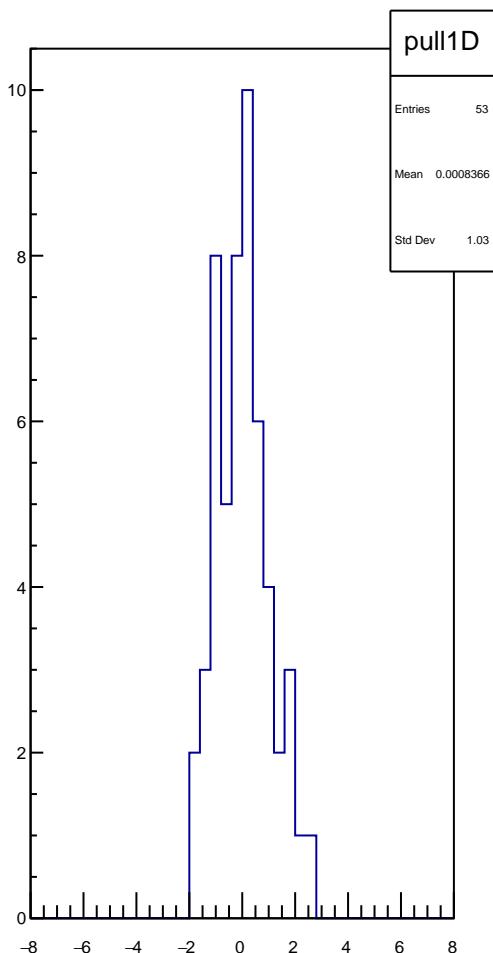
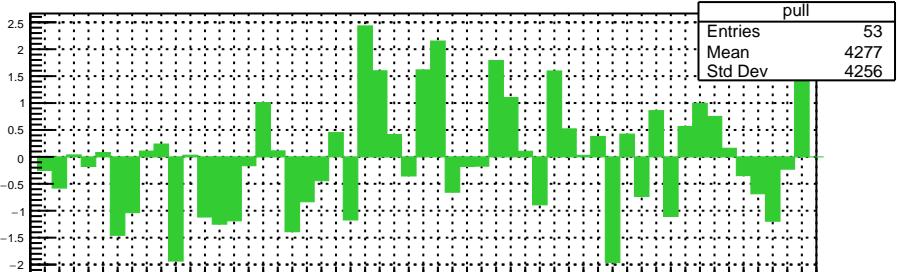
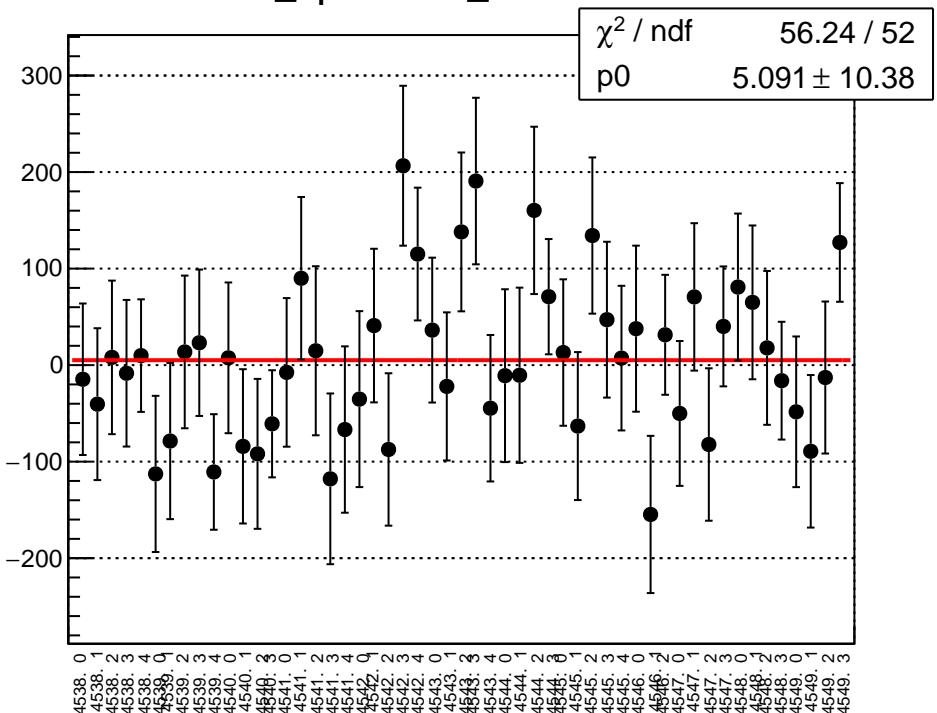
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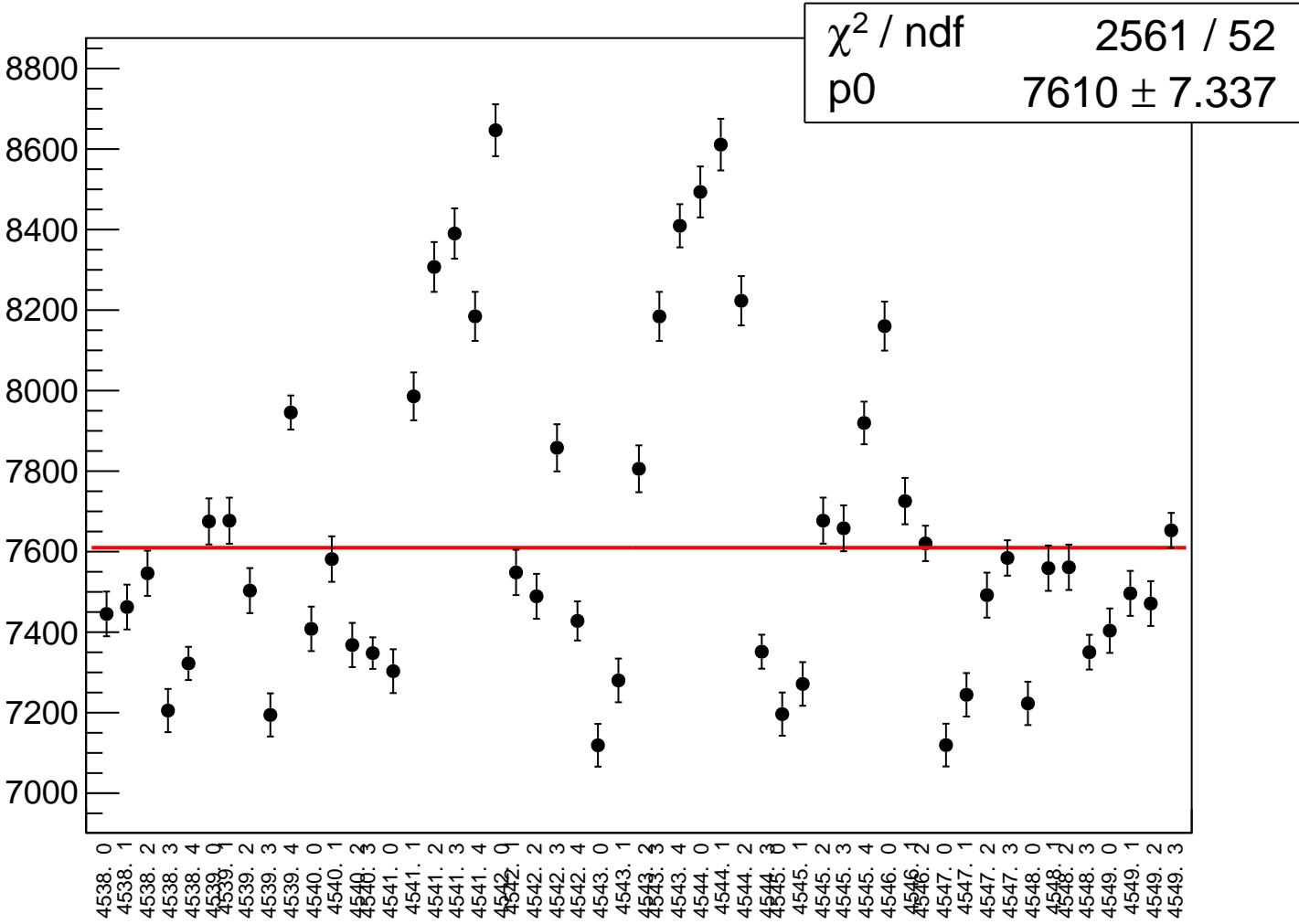
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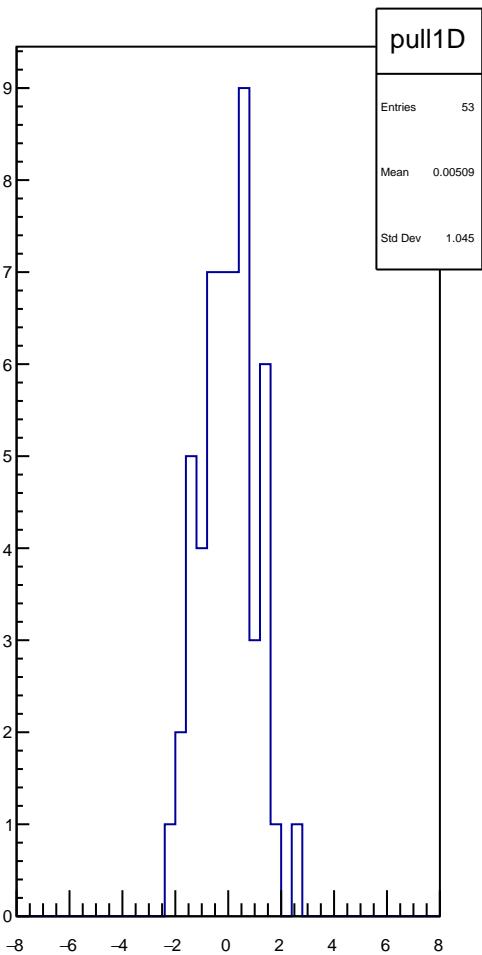
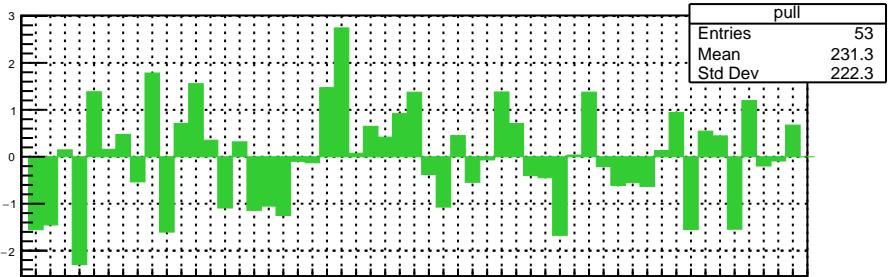
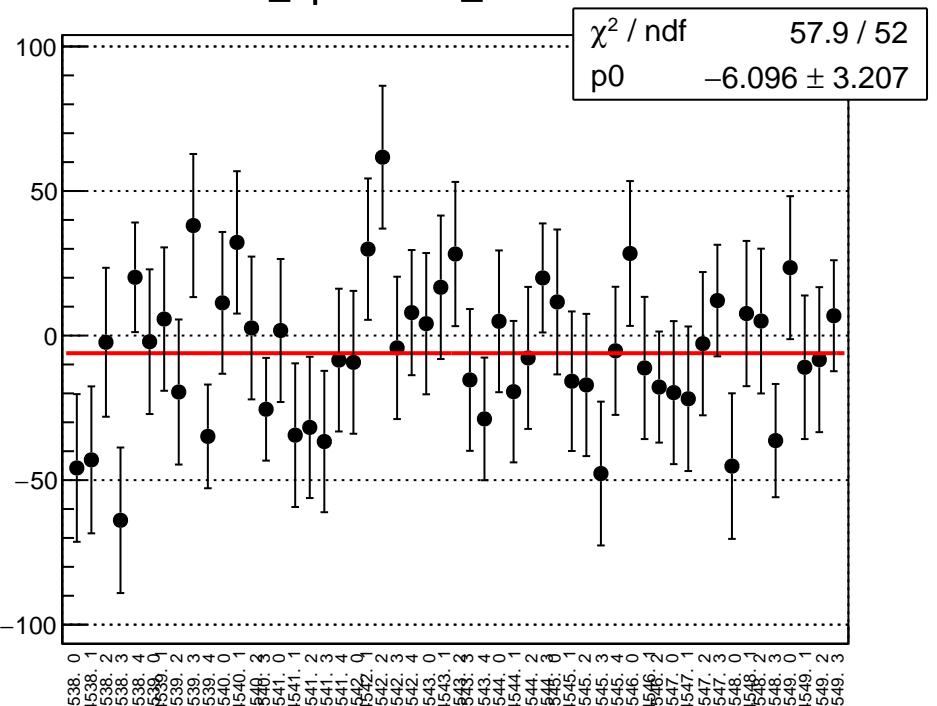
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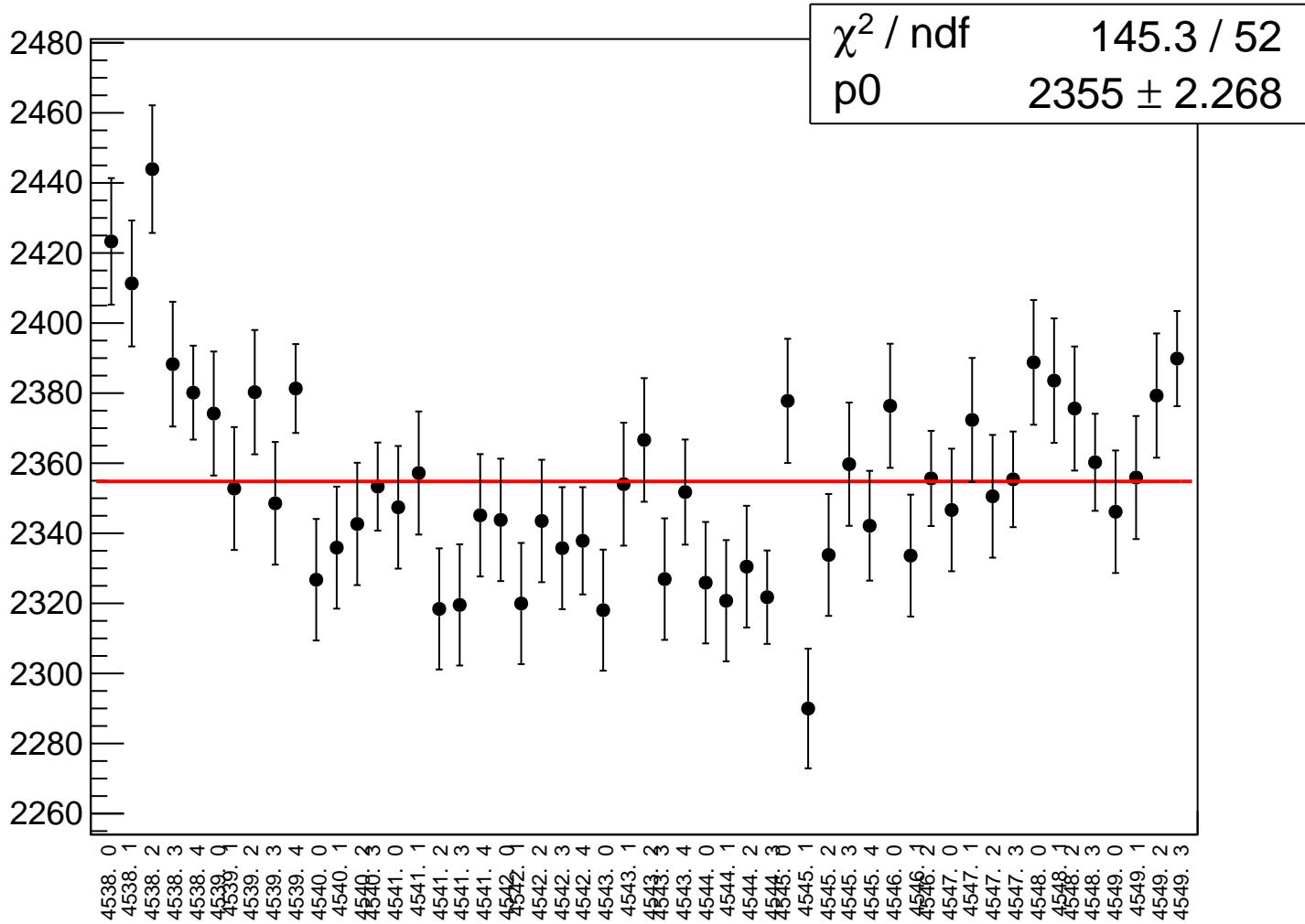
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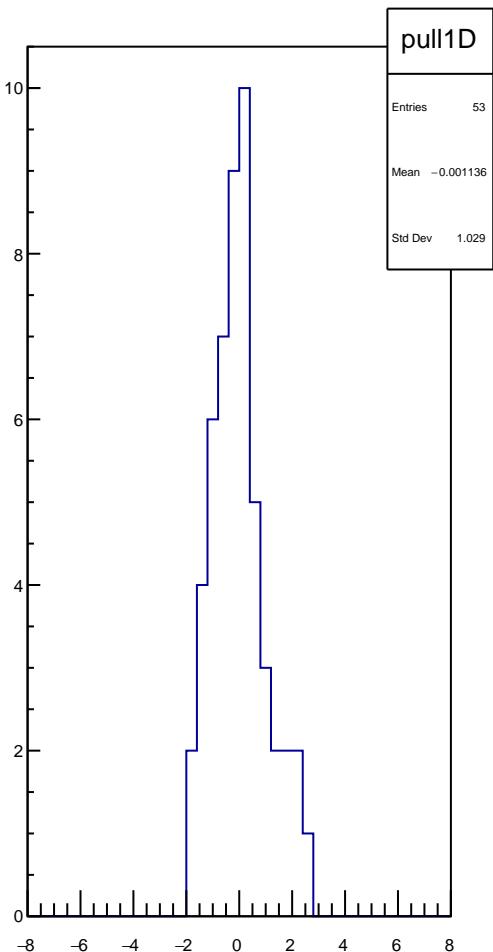
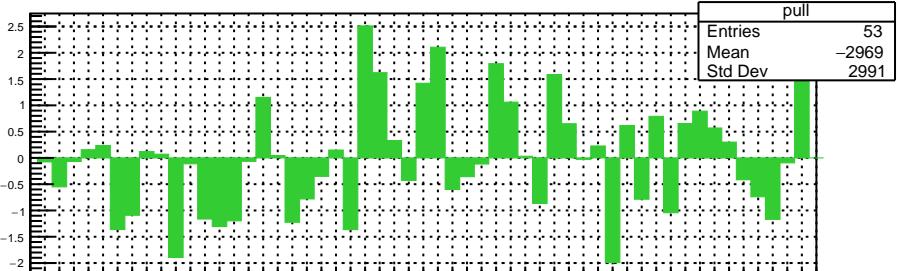
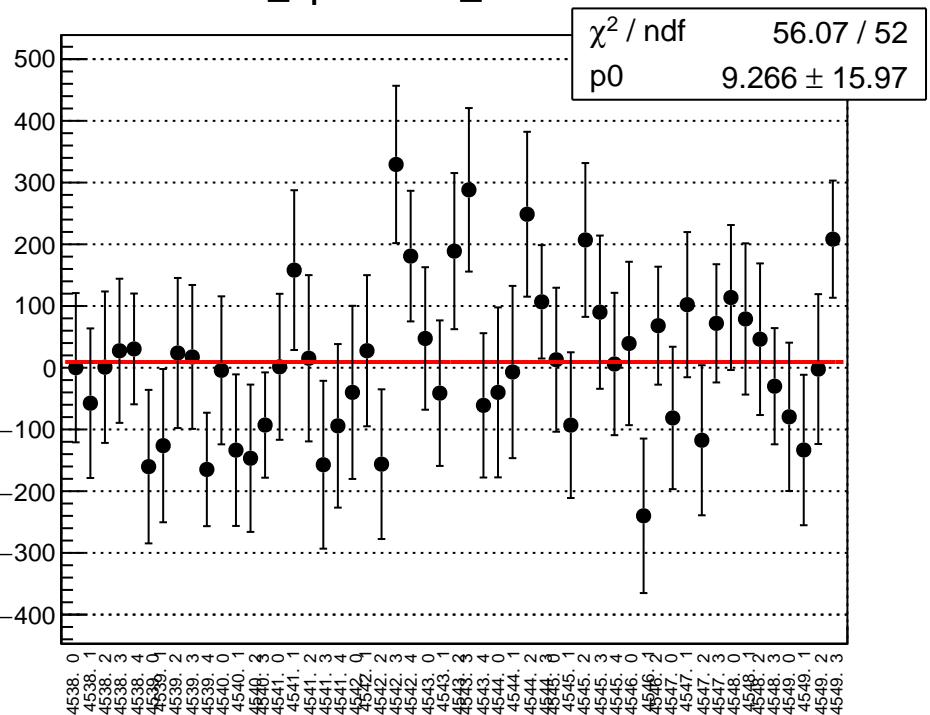
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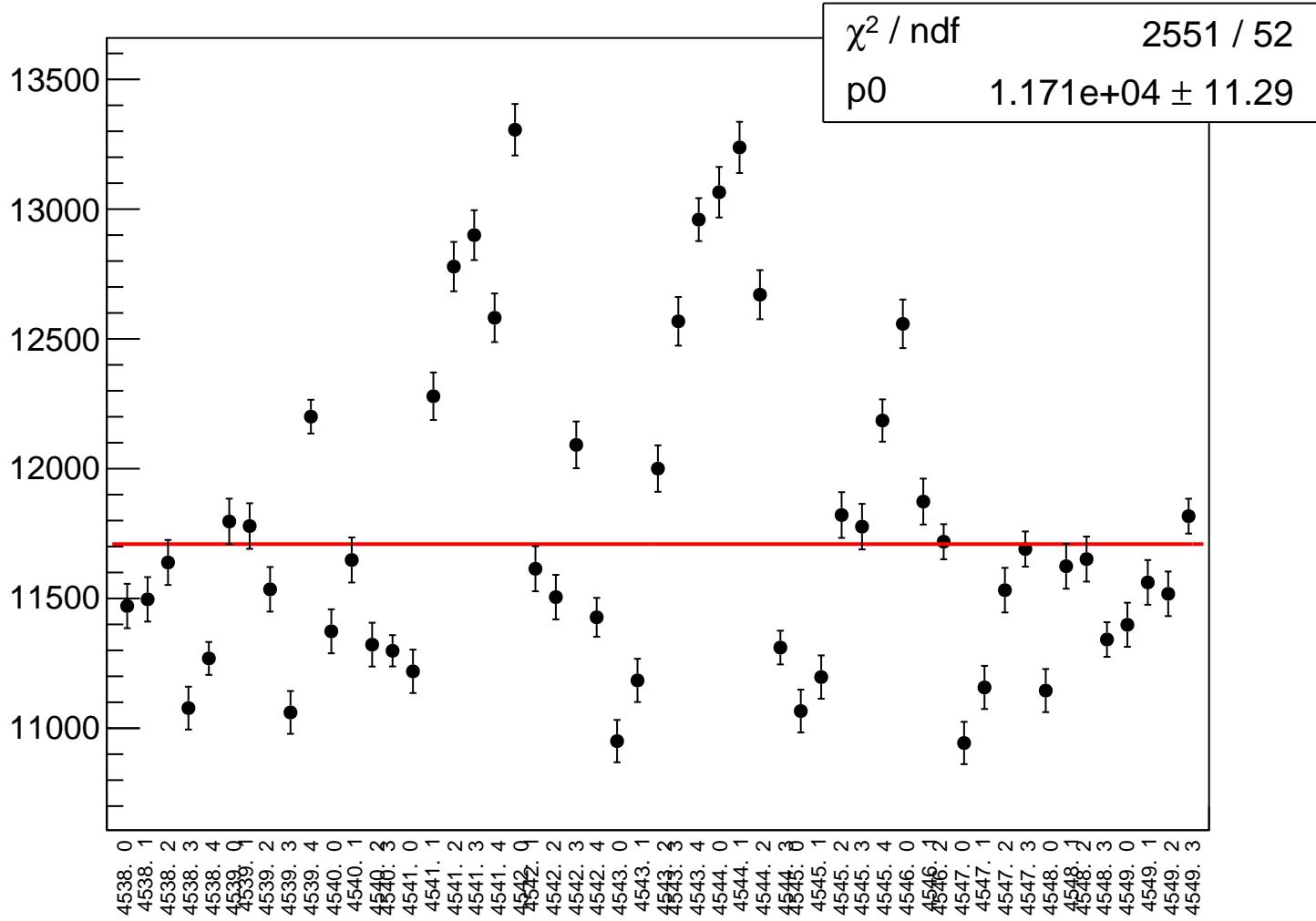
# diff\_bpmon06Y\_rms vs run



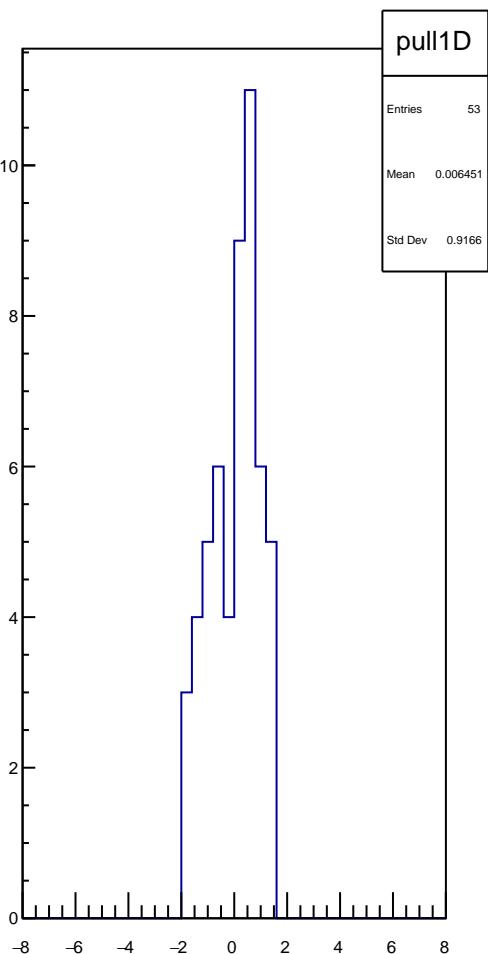
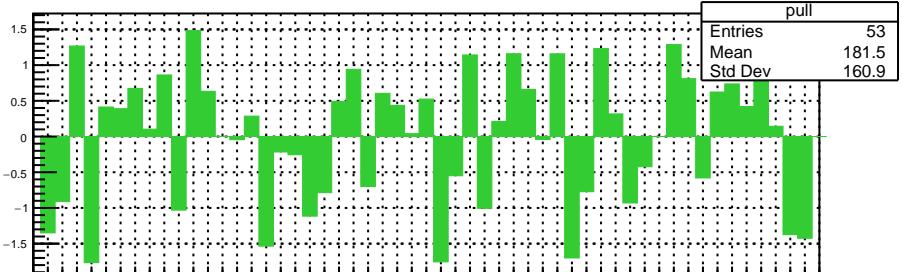
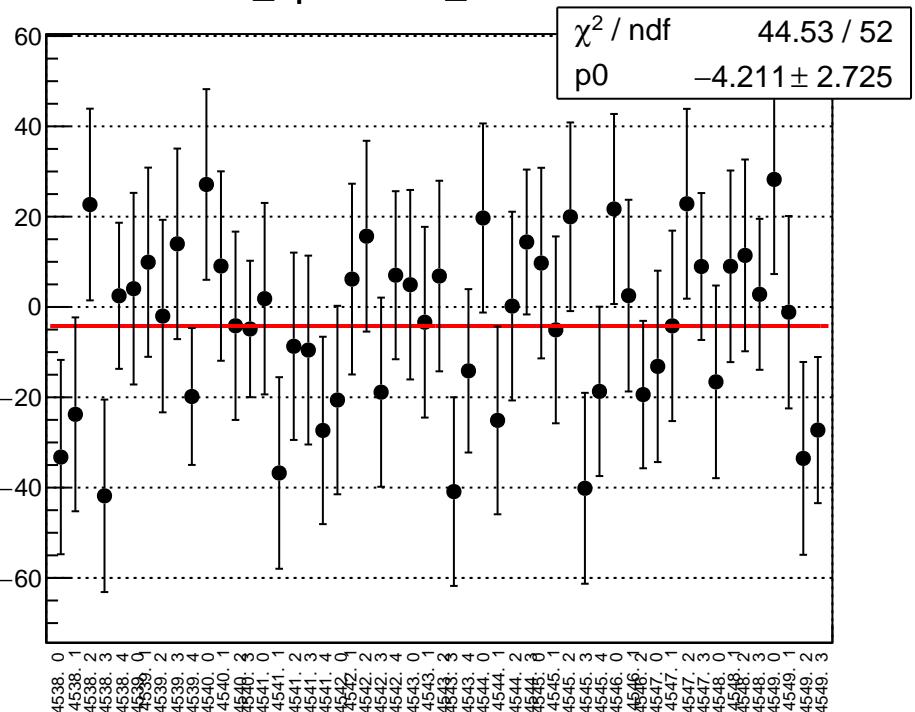
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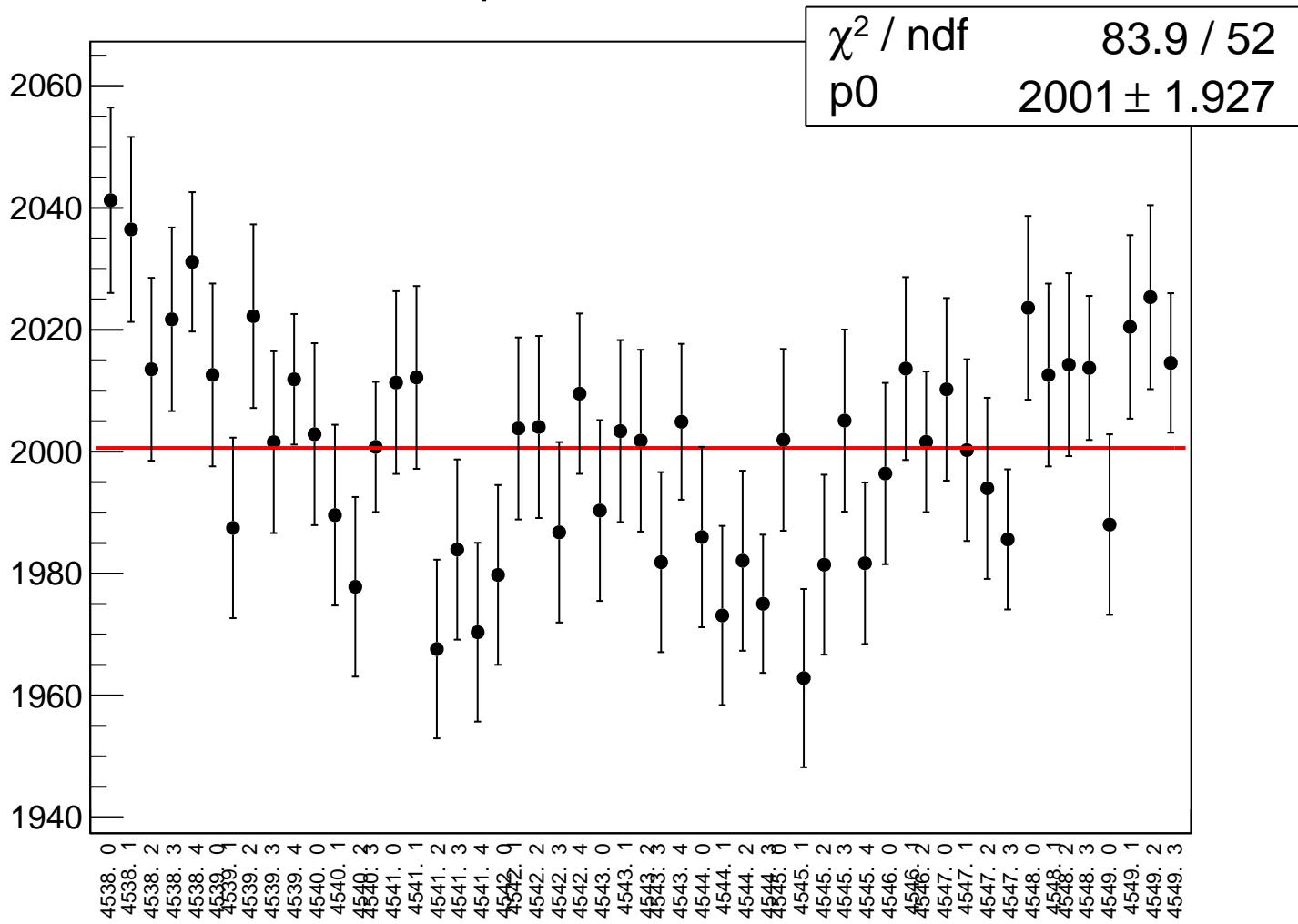
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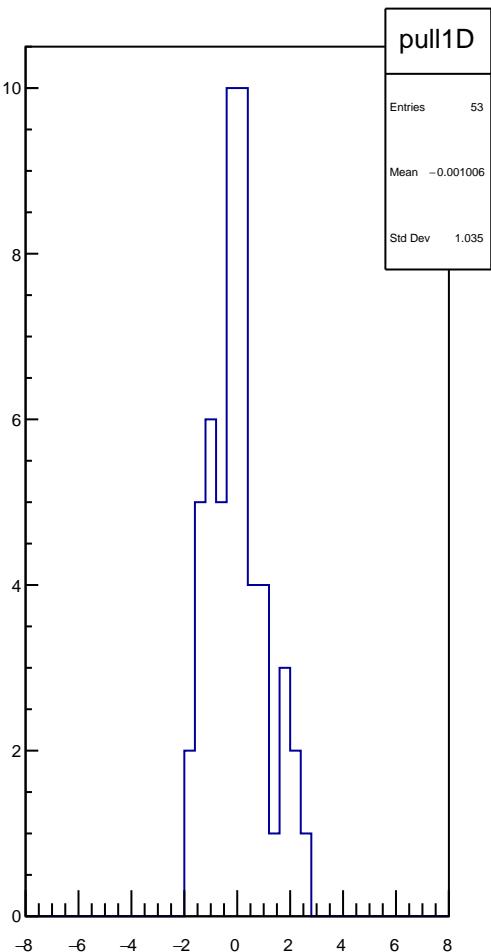
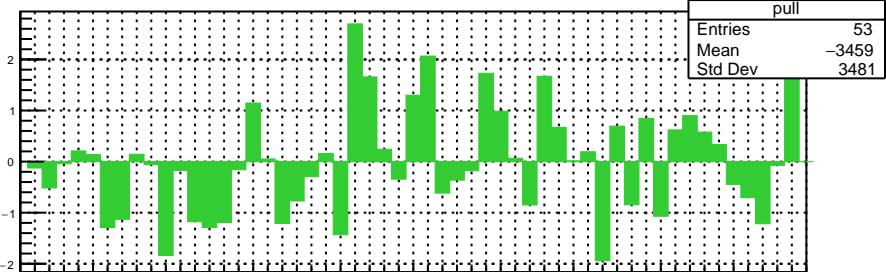
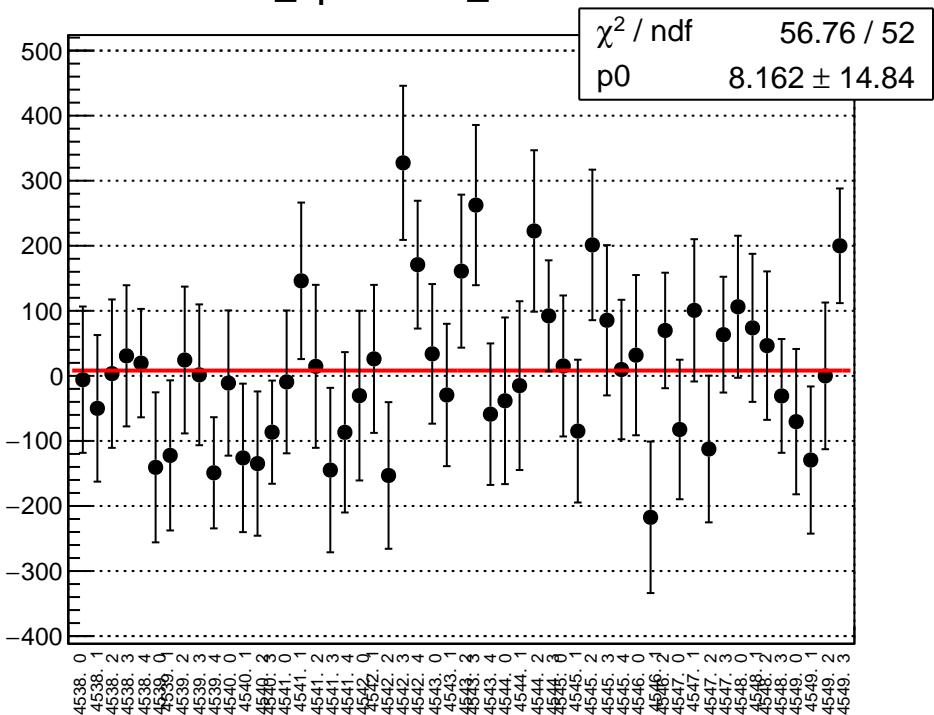
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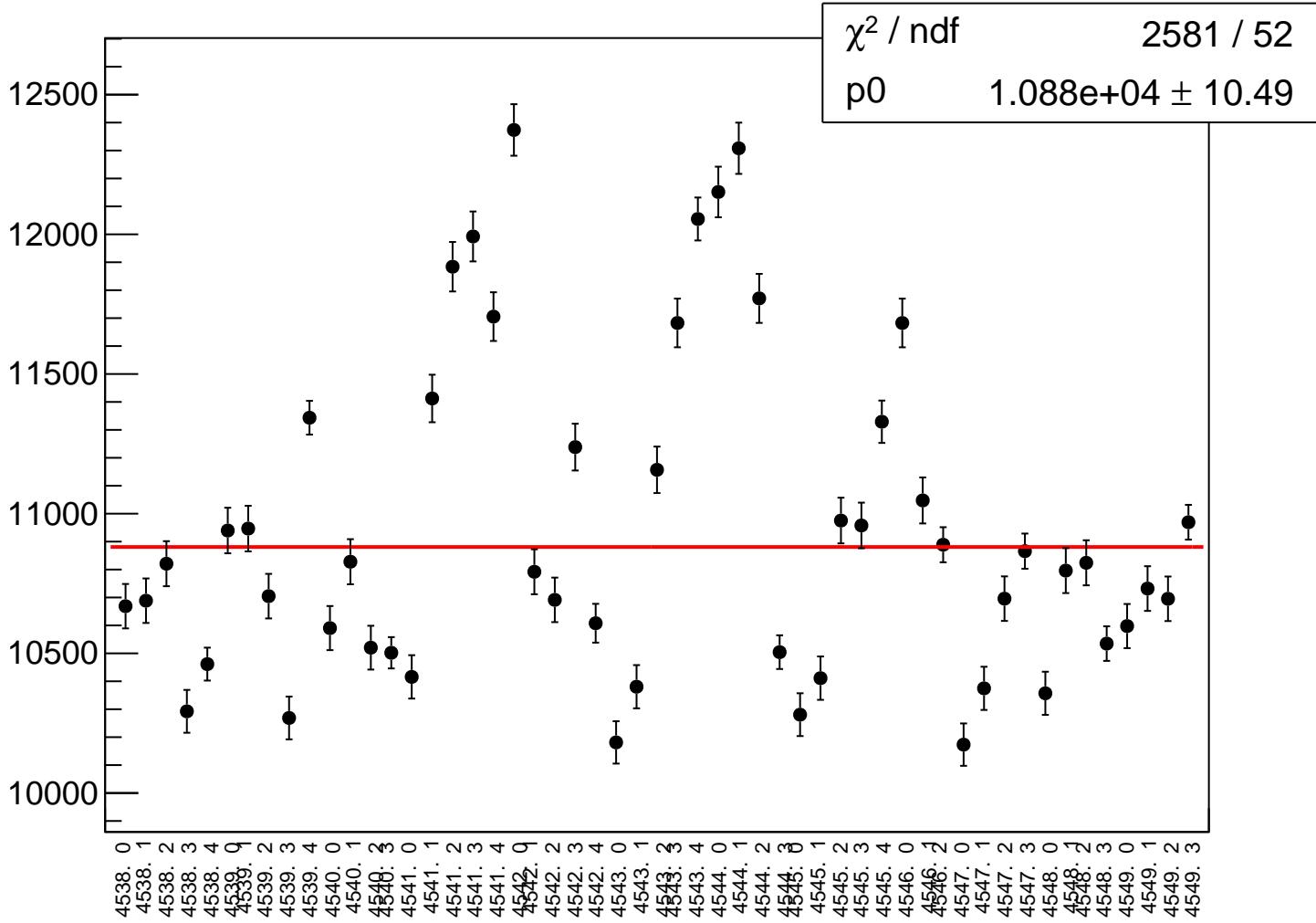
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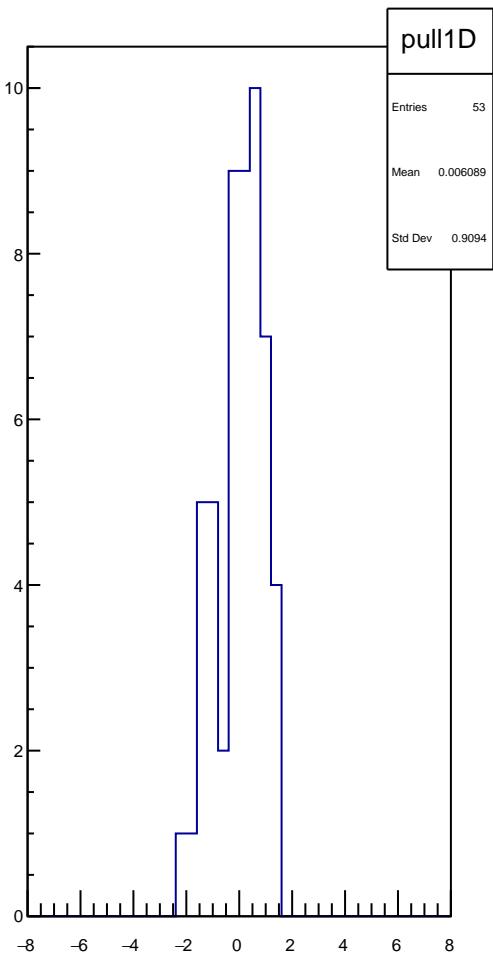
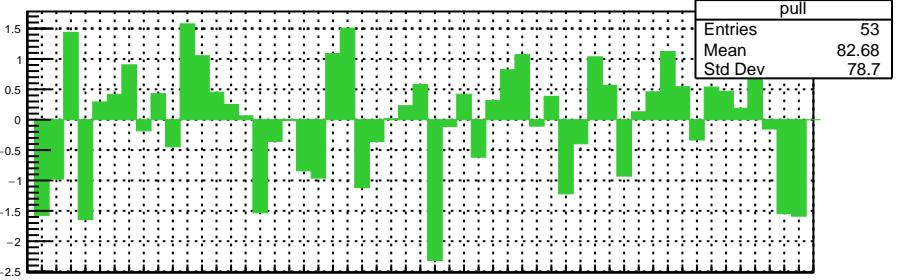
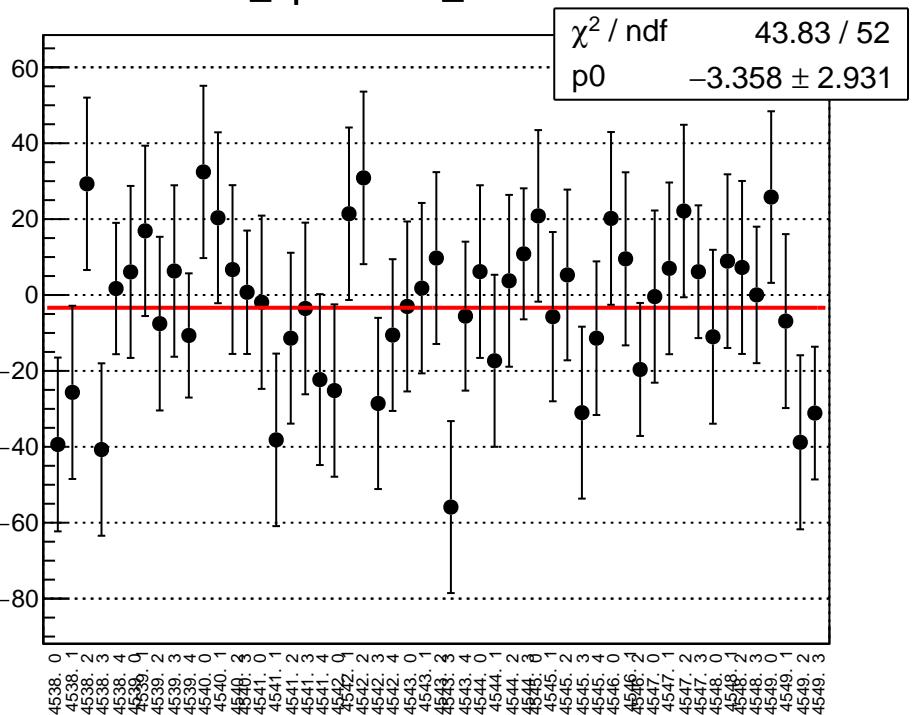
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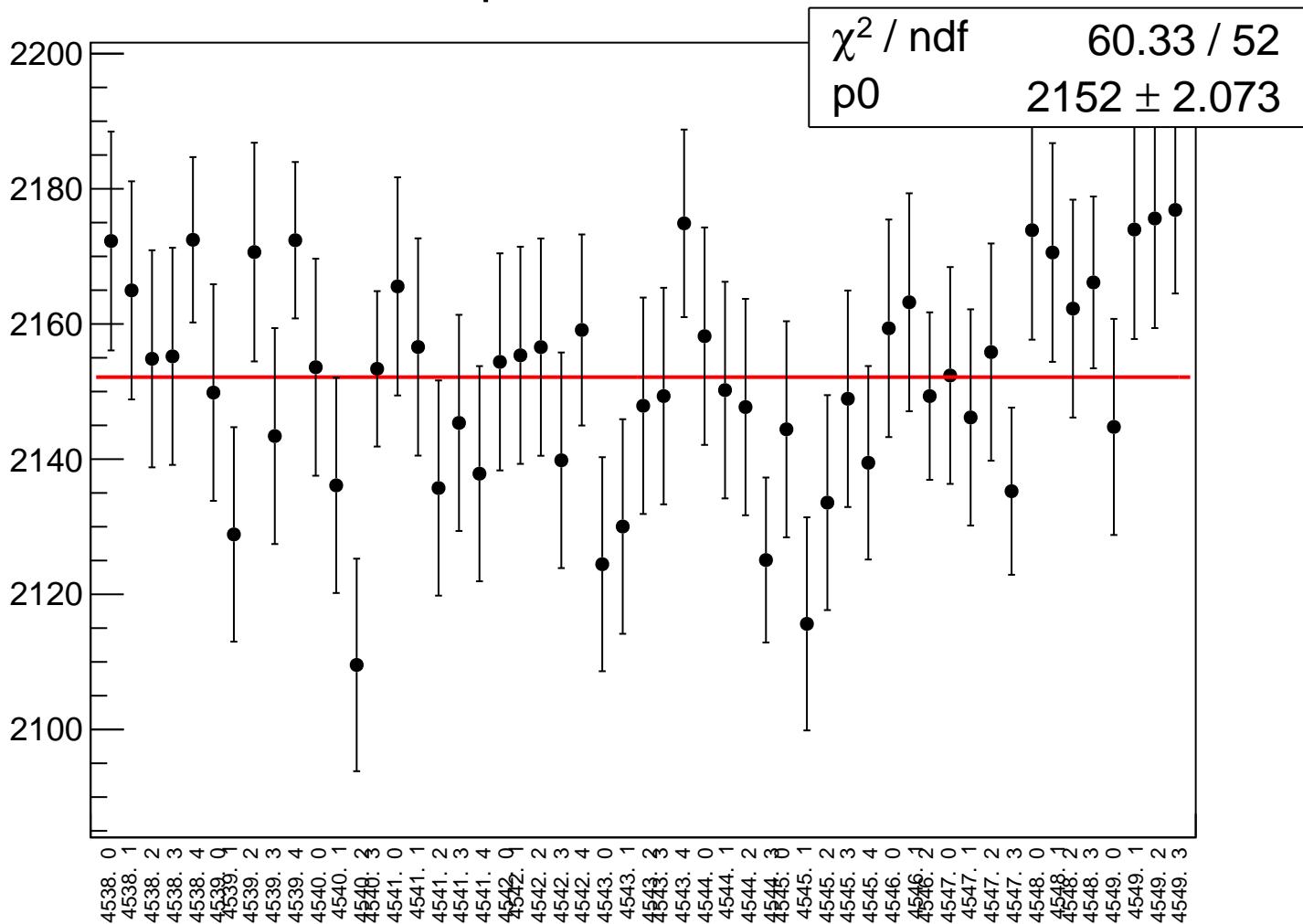
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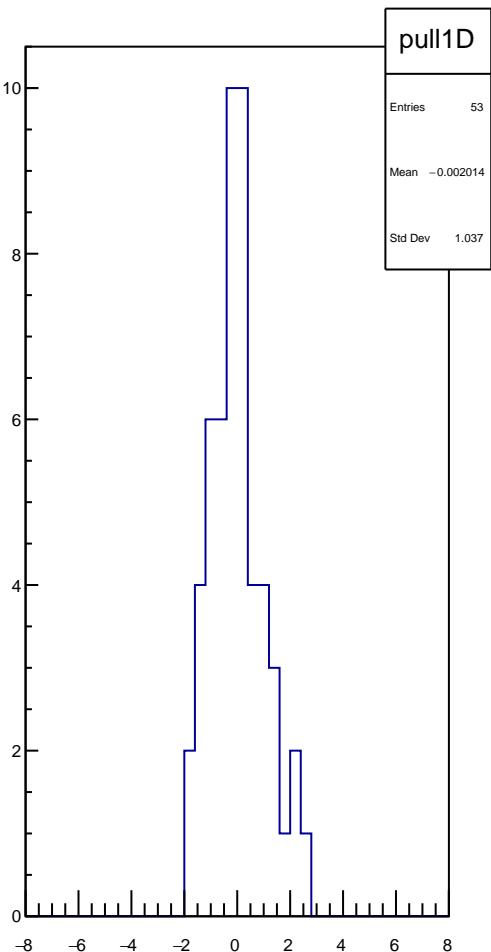
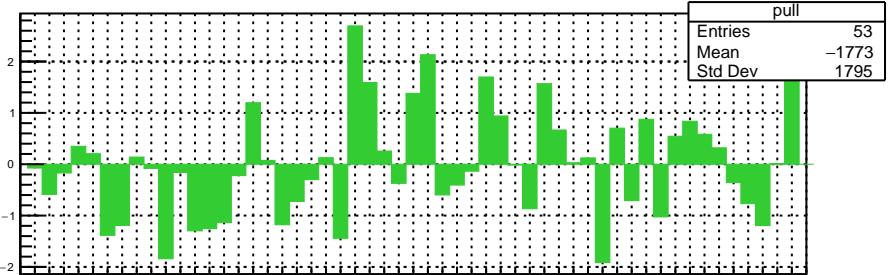
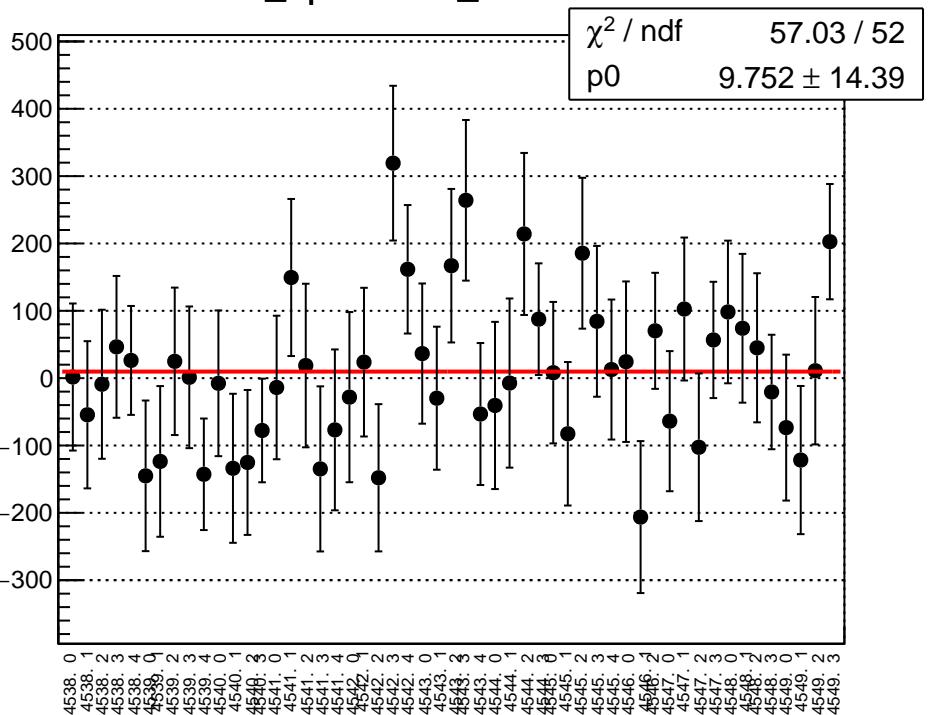
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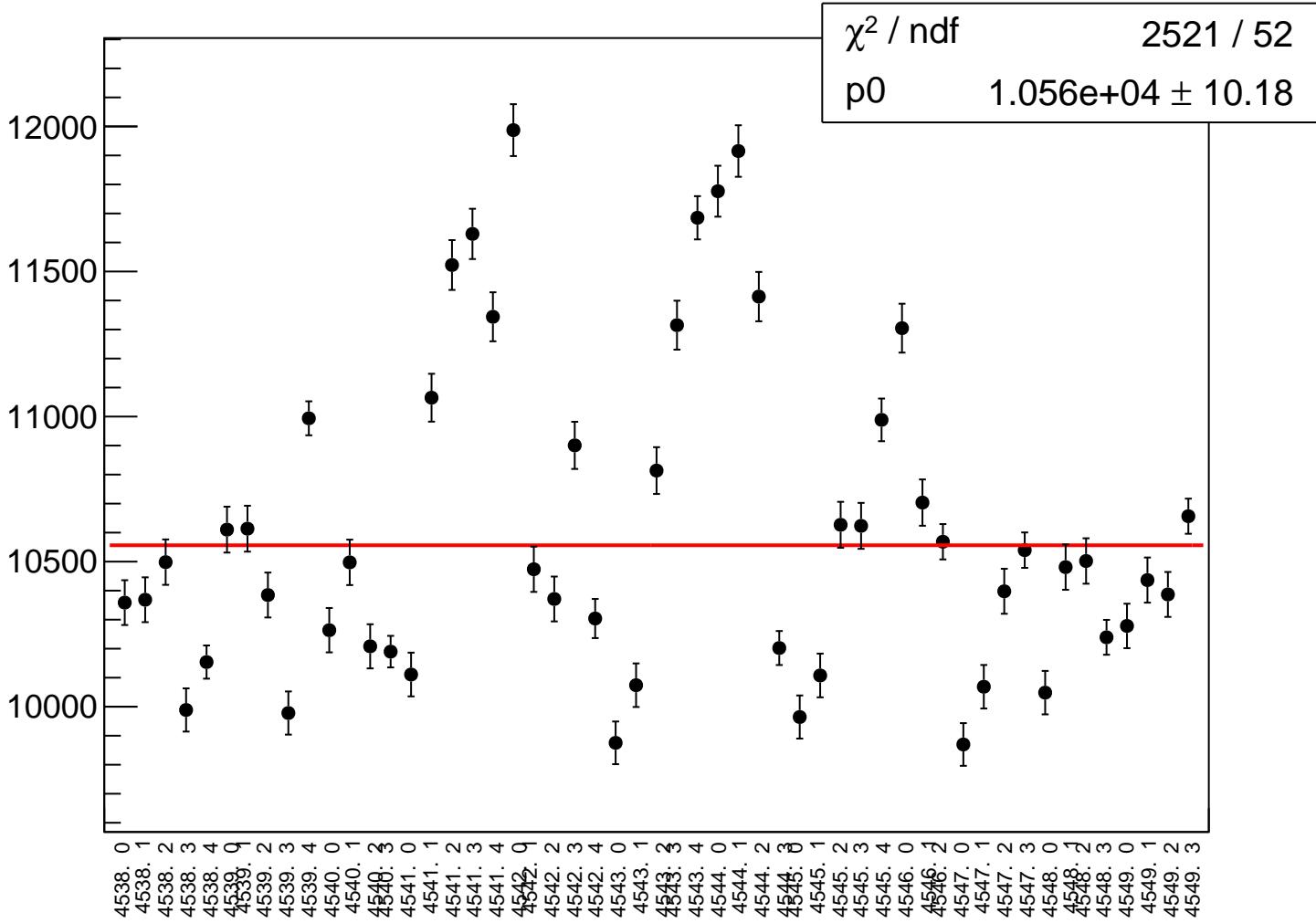
# diff\_bpmon08Y\_rms vs run



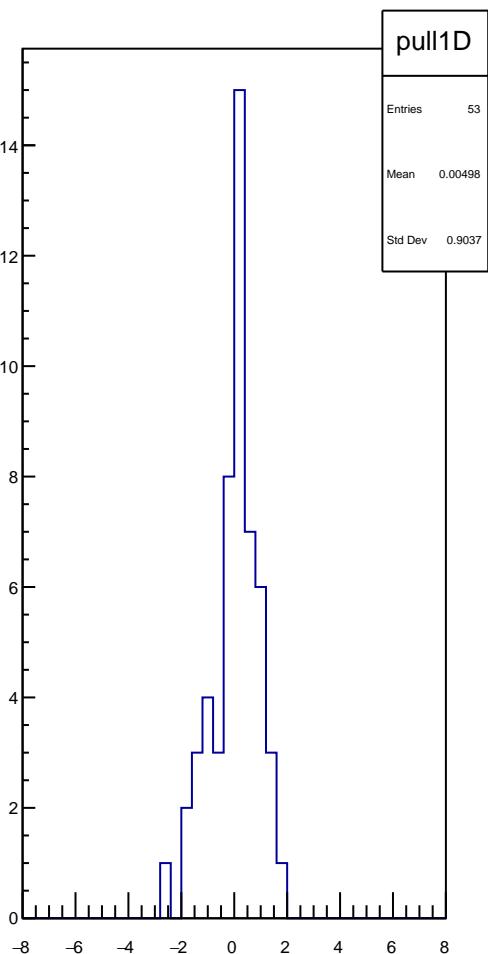
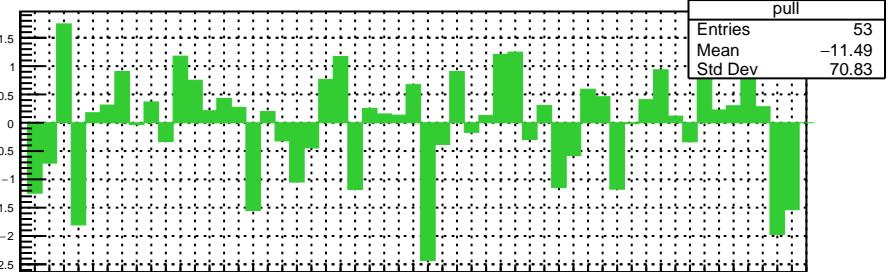
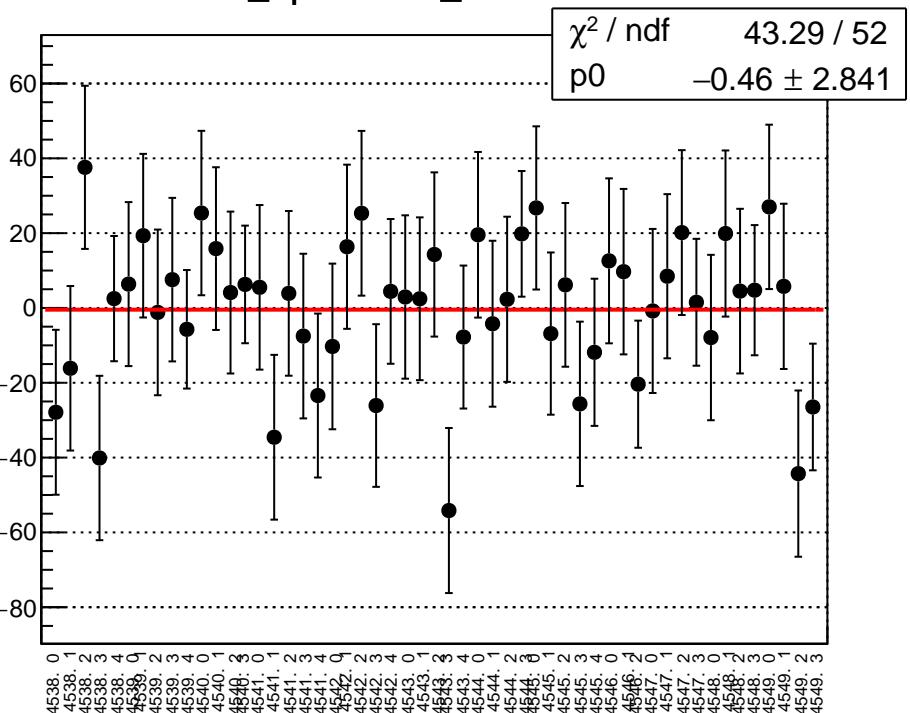
# diff\_bpm0l09X\_mean vs run



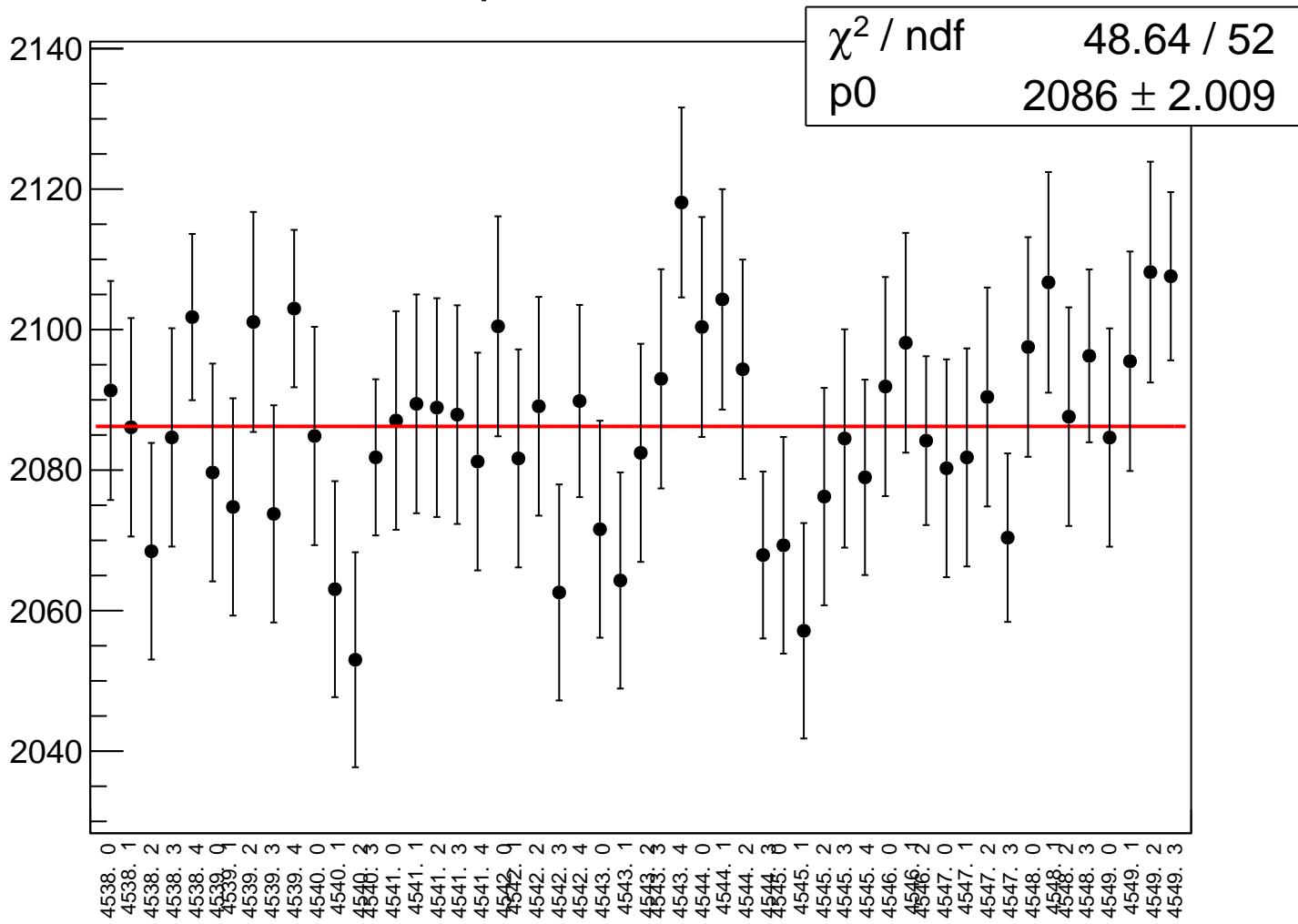
# diff\_bpmon09X\_rms vs run



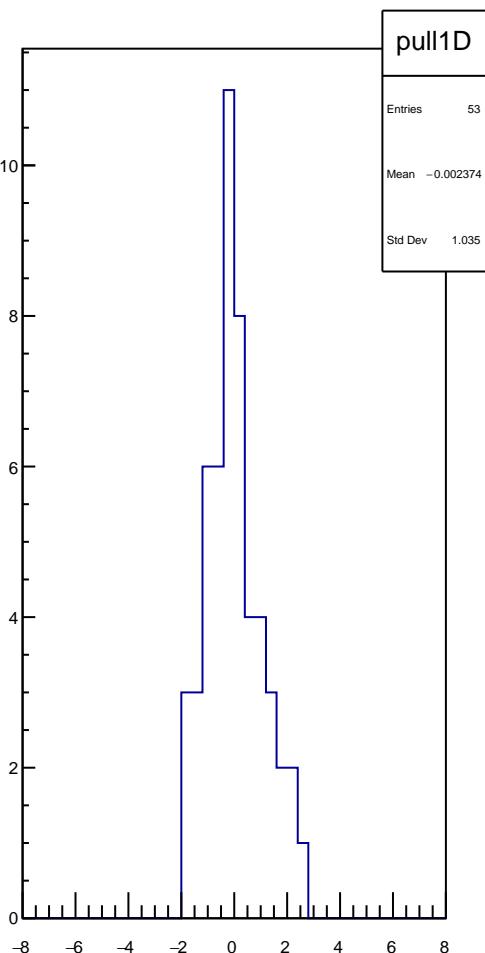
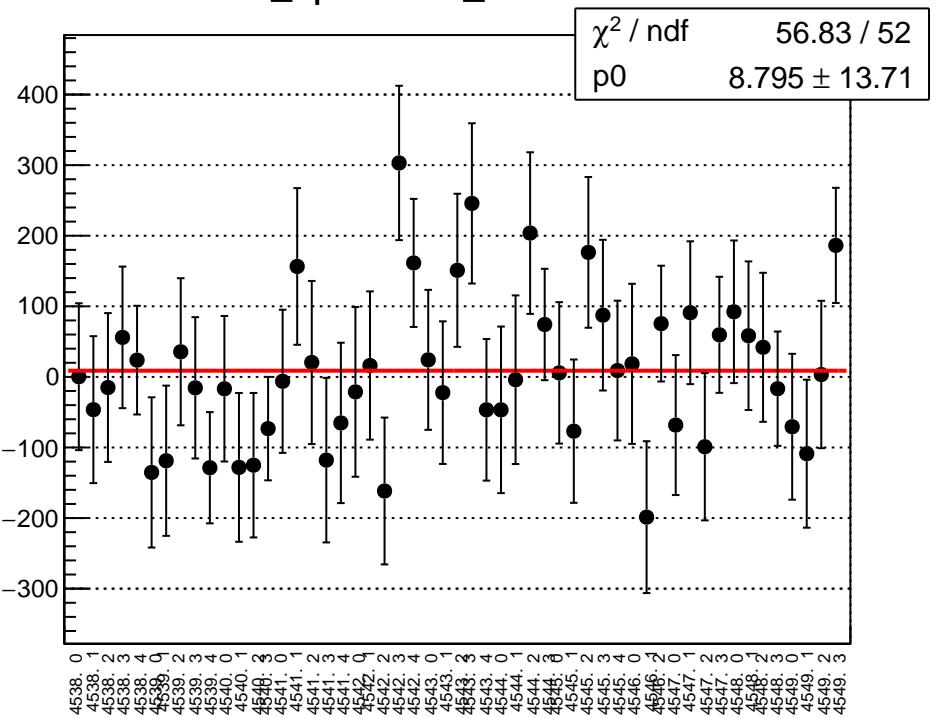
# diff\_bpm0l09Y\_mean vs run



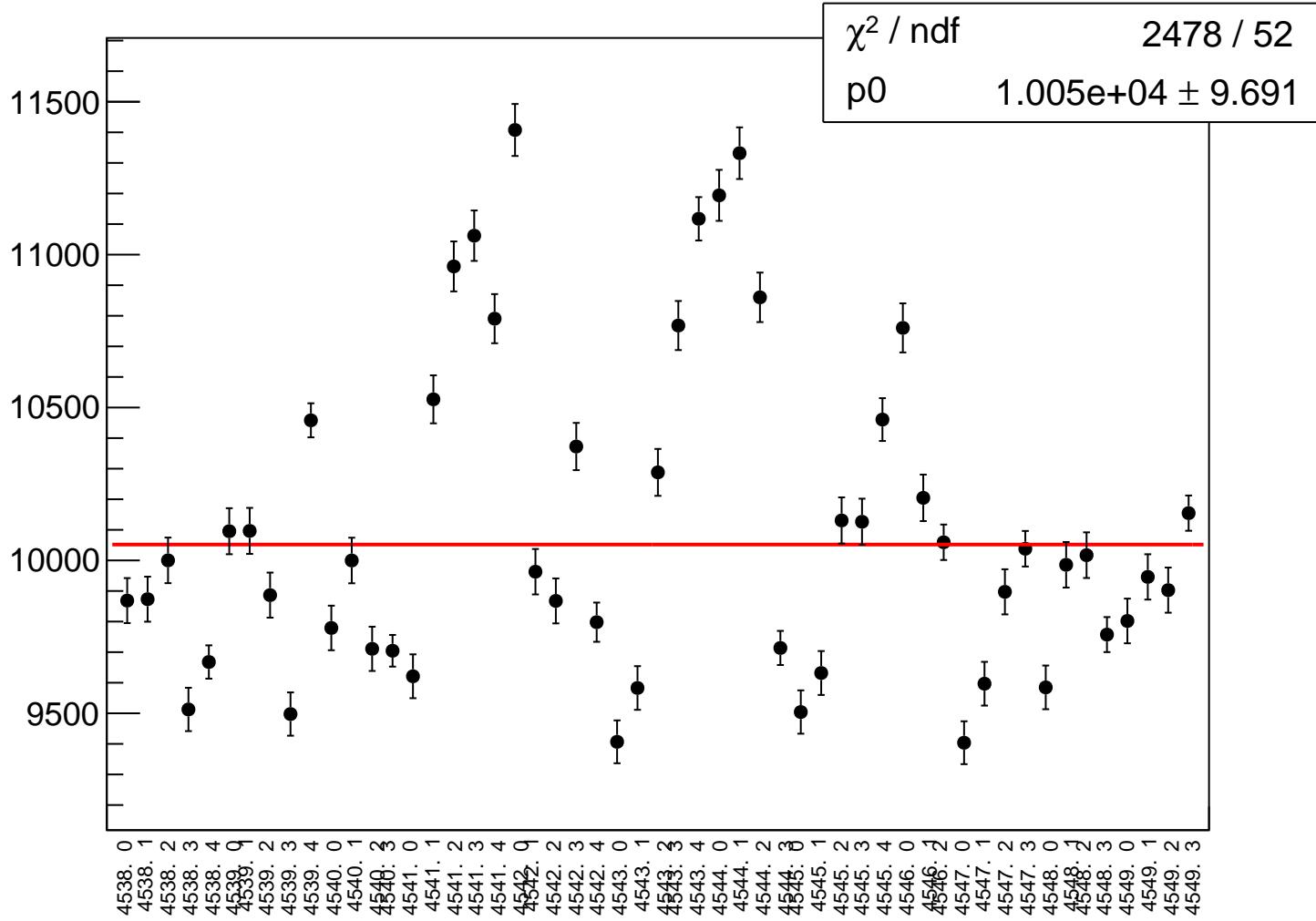
# diff\_bpm0I09Y\_rms vs run



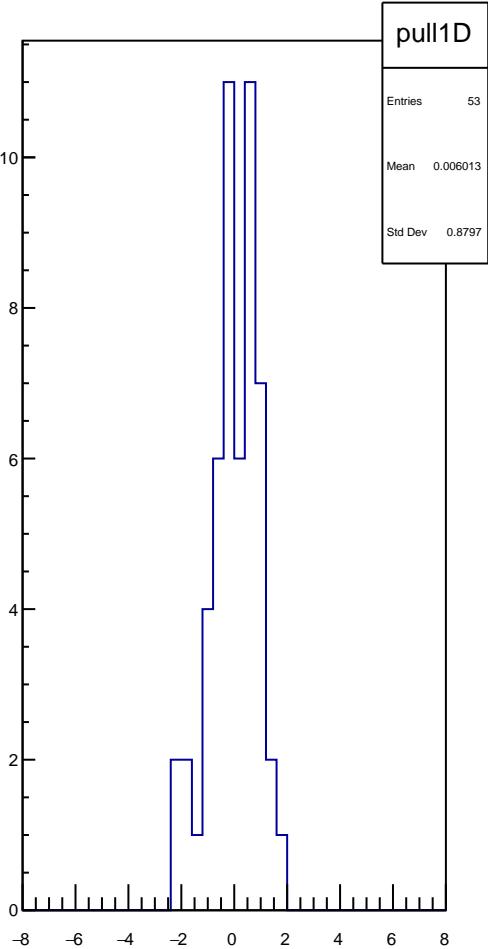
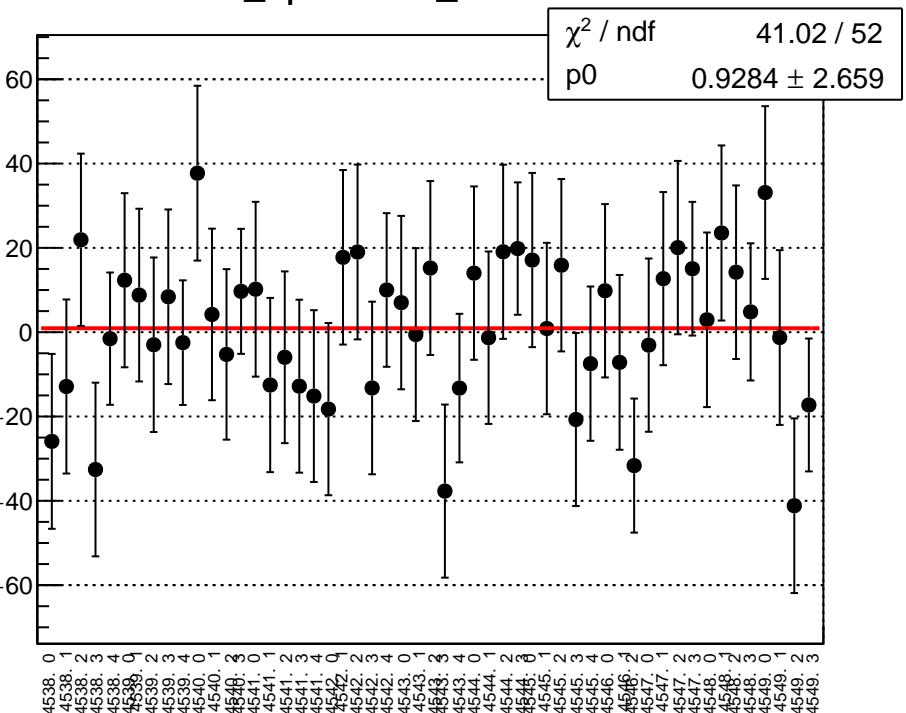
# diff\_bpm0l10X\_mean vs run



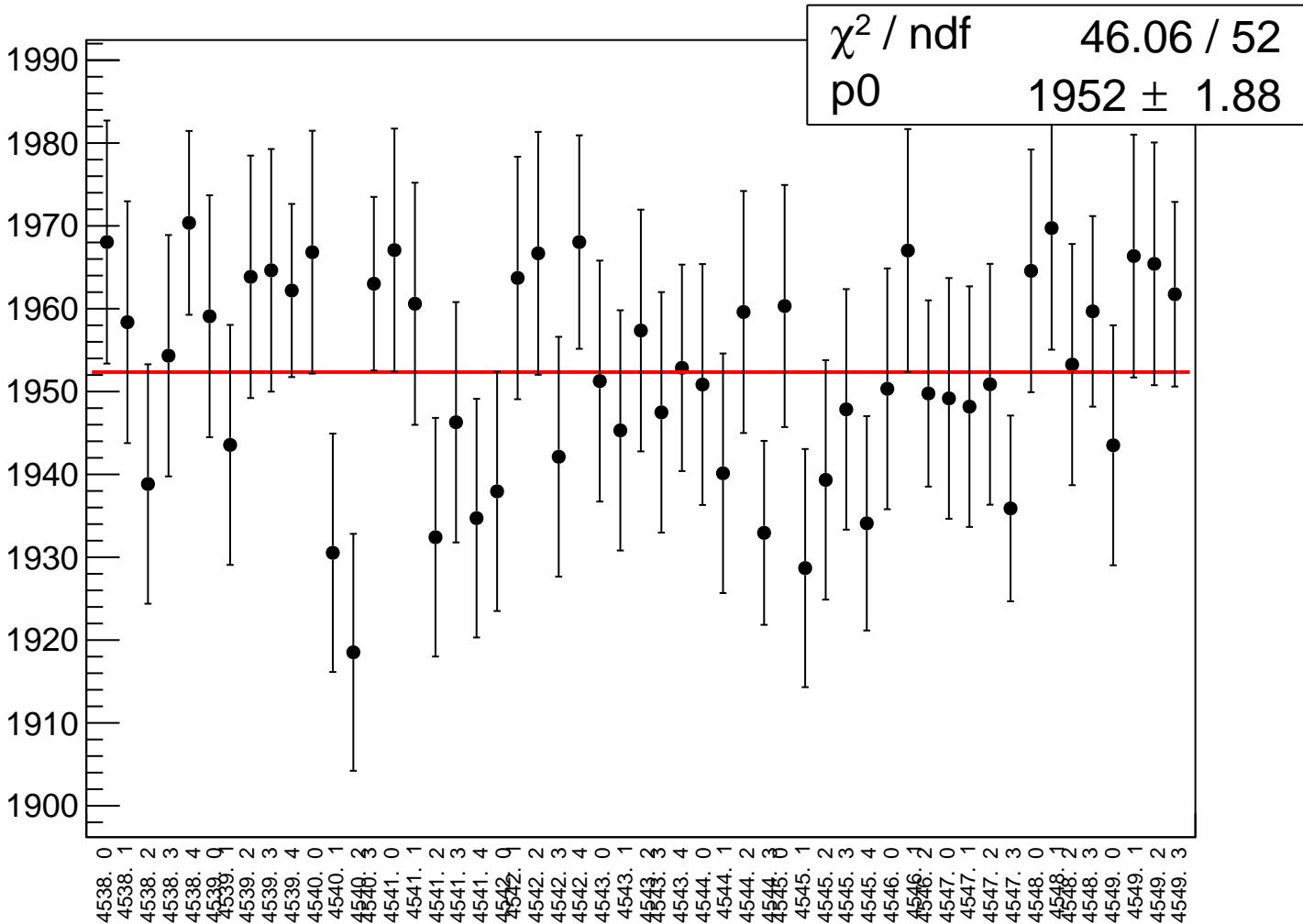
# diff\_bpm0I10X\_rms vs run



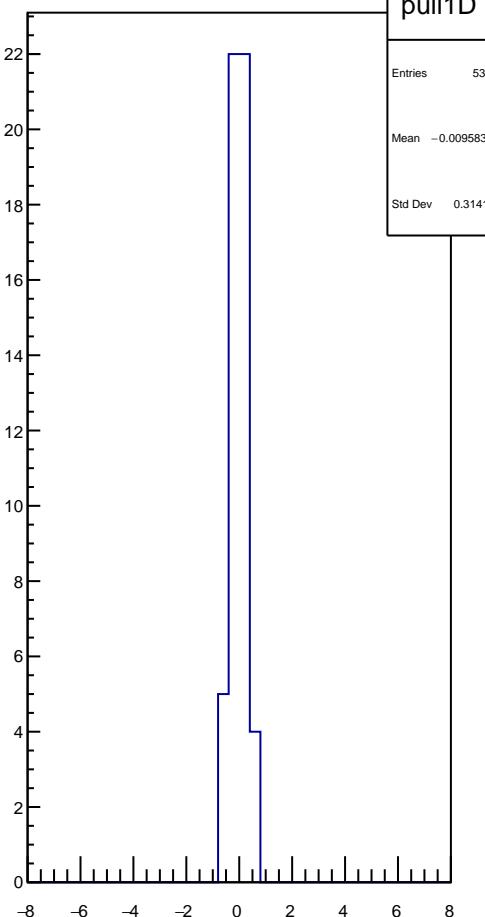
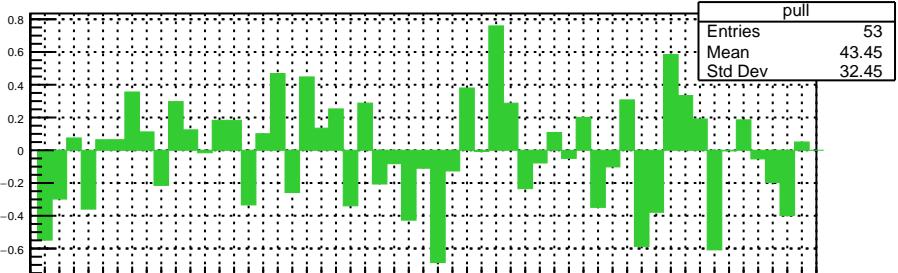
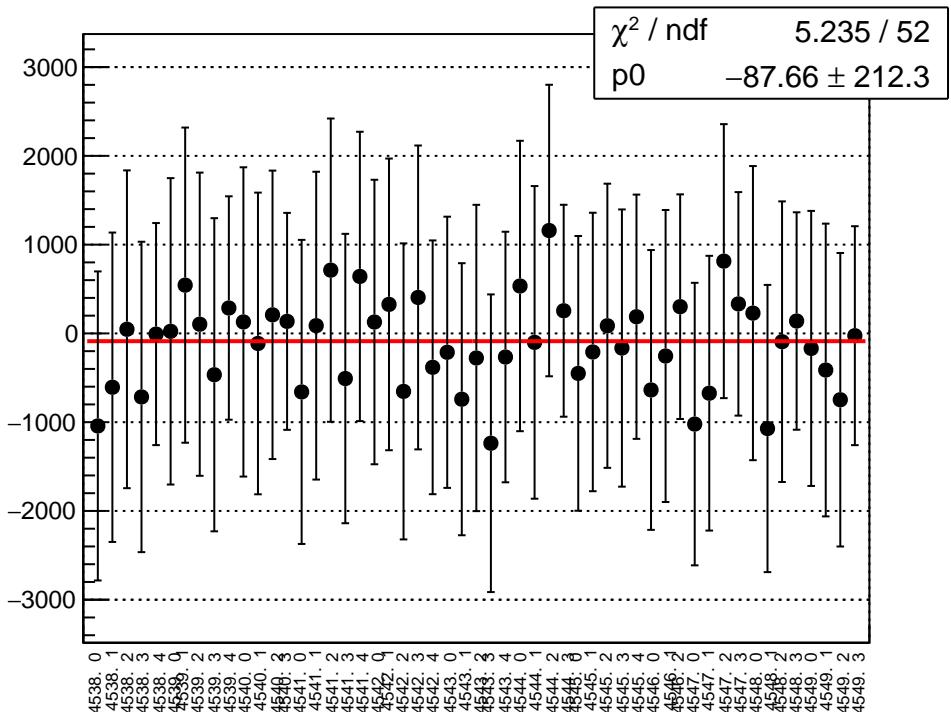
# diff\_bpm0I10Y\_mean vs run



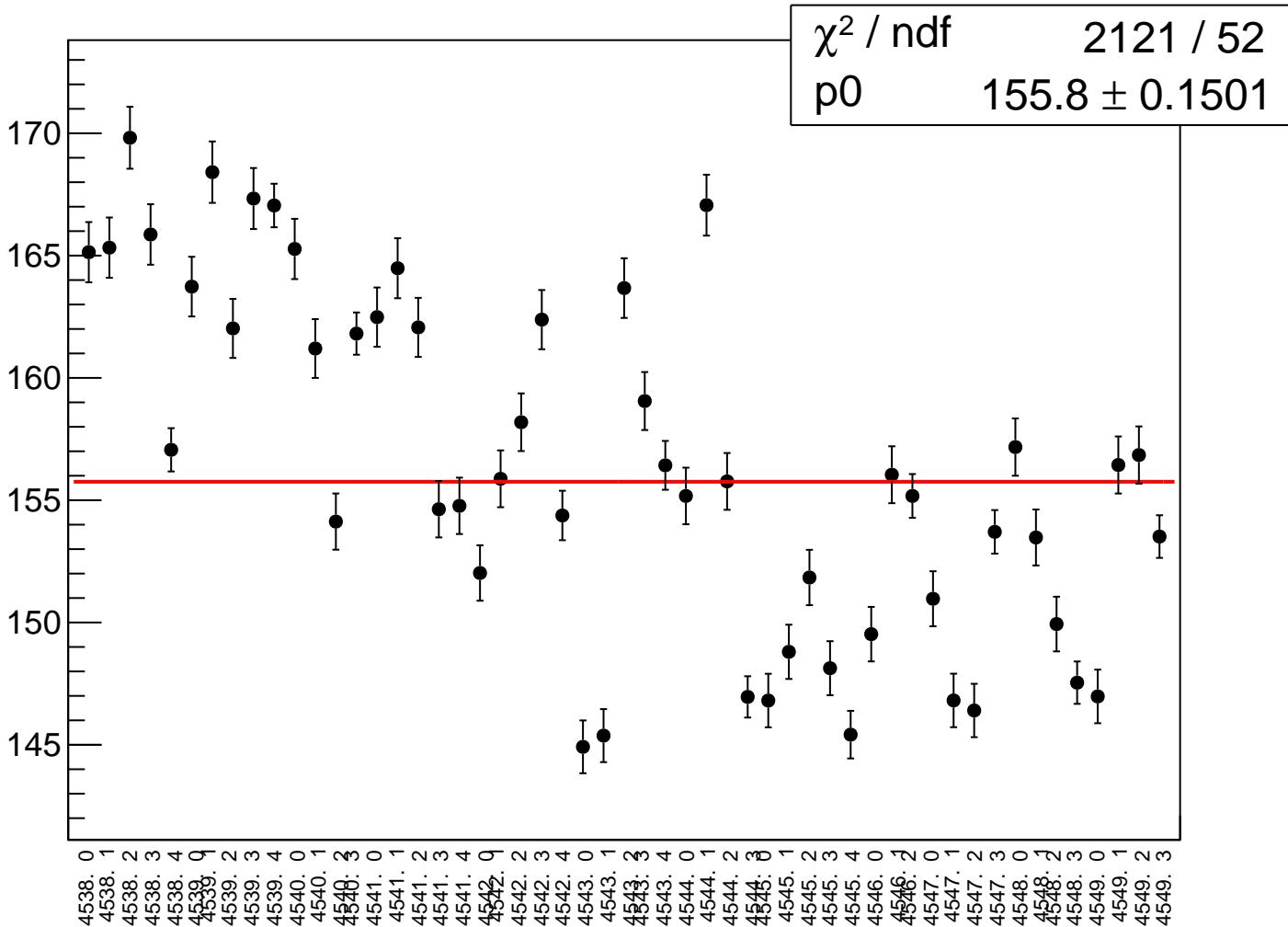
# diff\_bpm0I10Y\_rms vs run



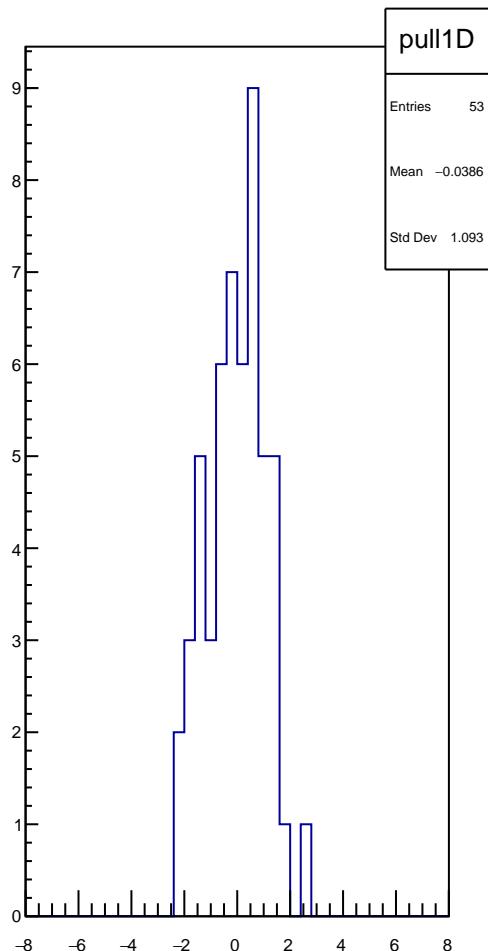
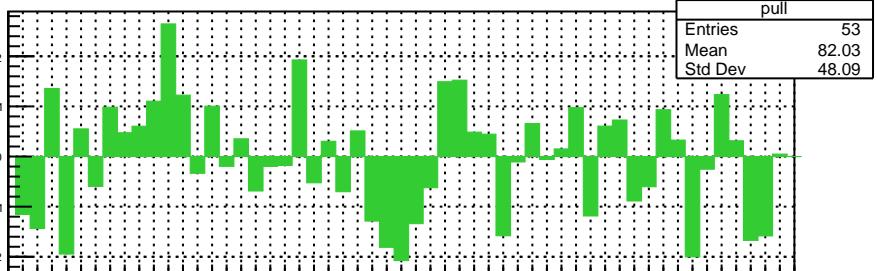
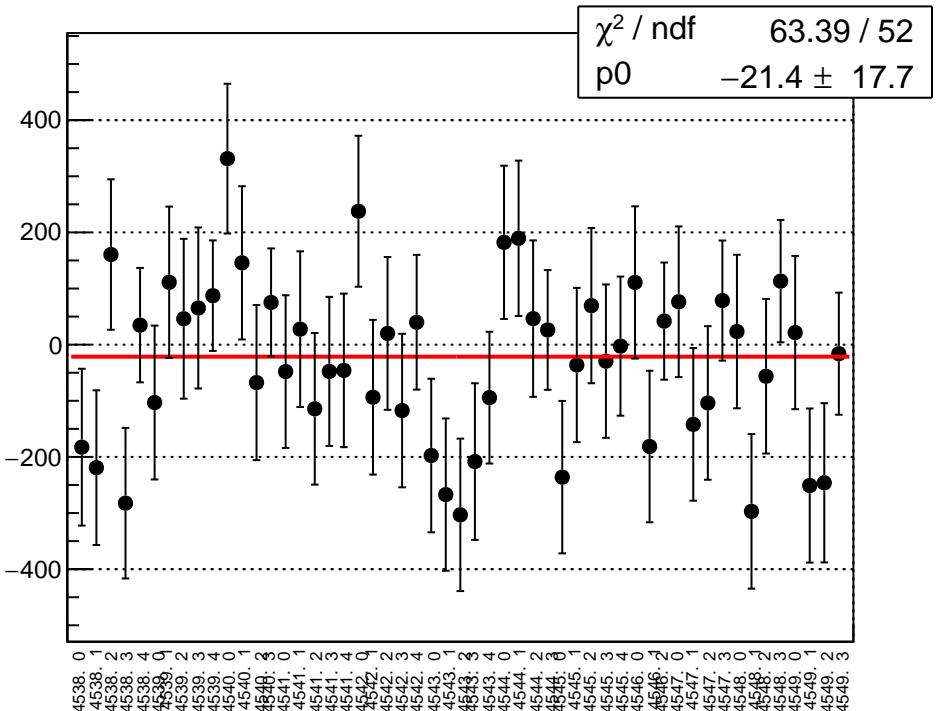
# asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_mean vs run



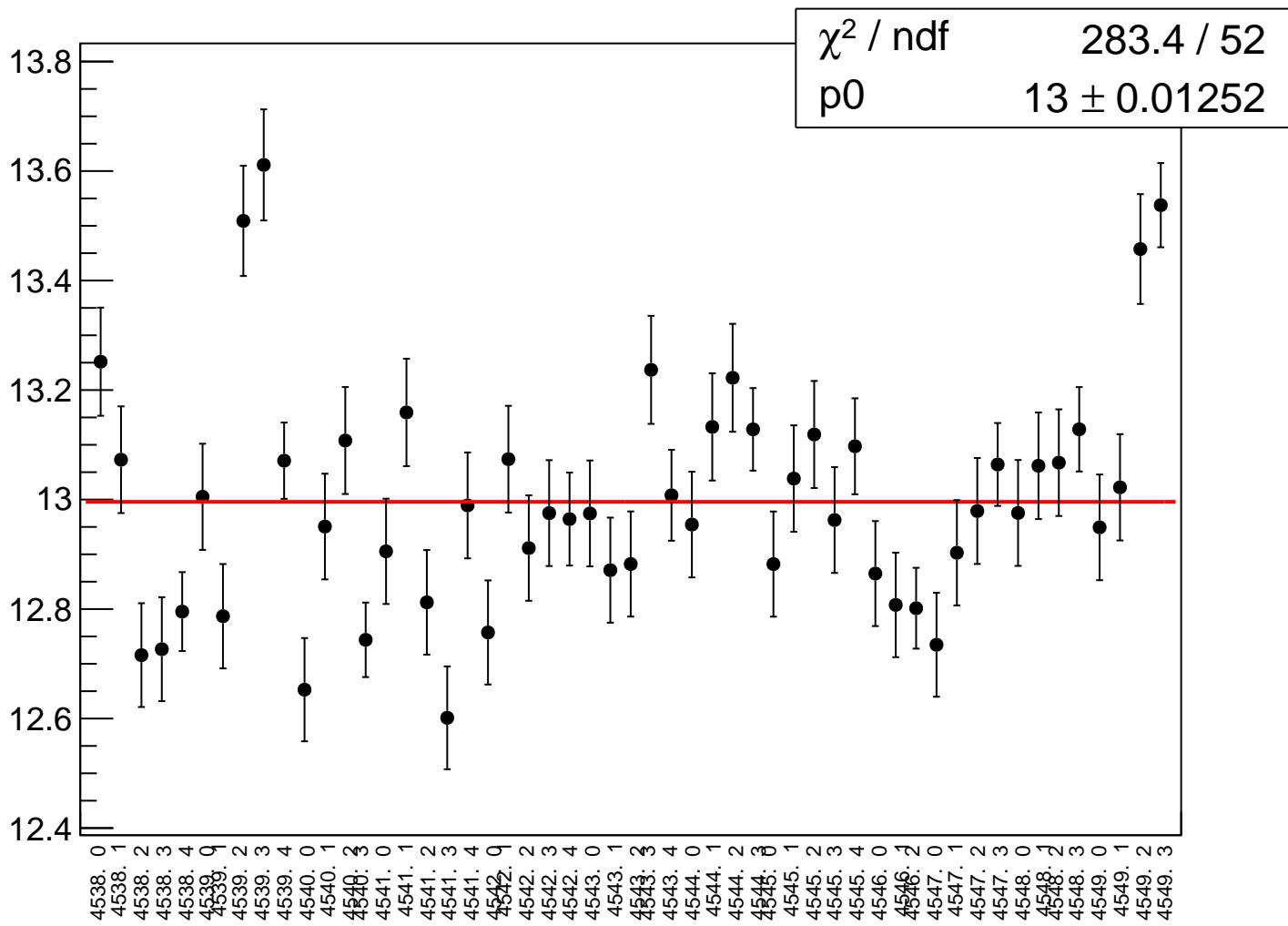
# asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_rms vs run



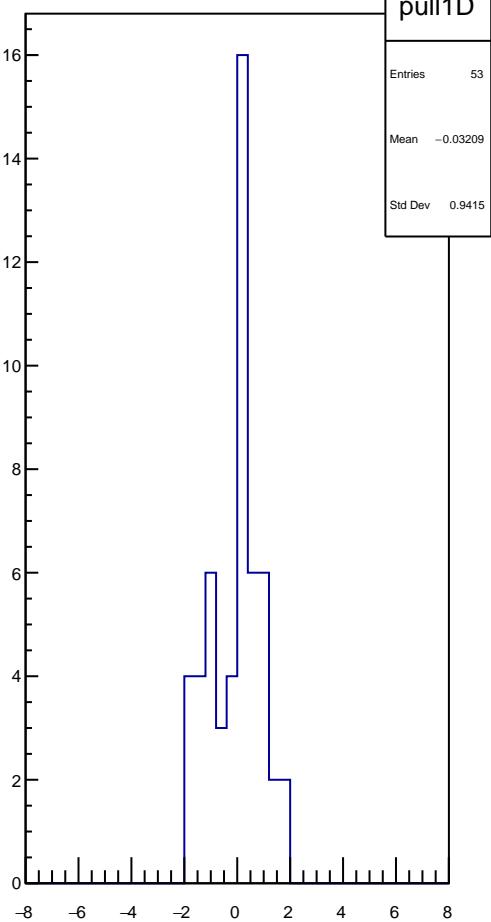
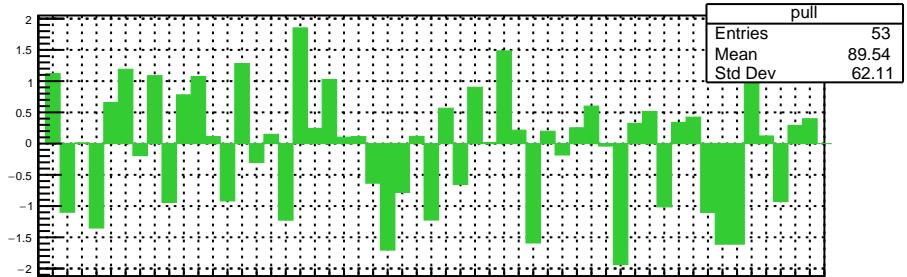
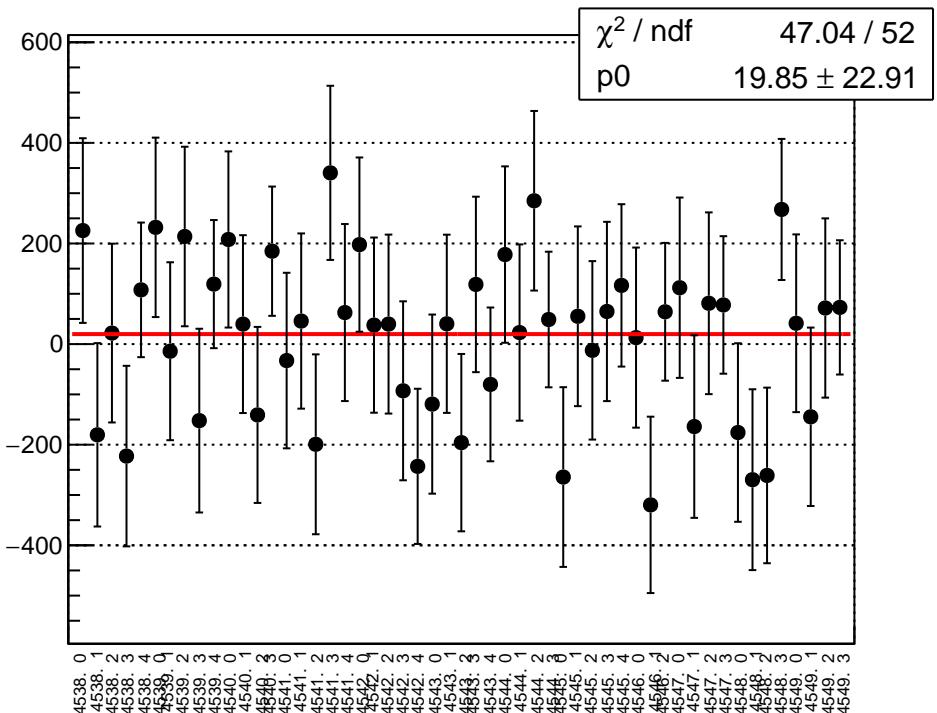
asym\_bcm\_an\_avg\_bcm\_dg\_ds\_agg\_dd\_mean vs run



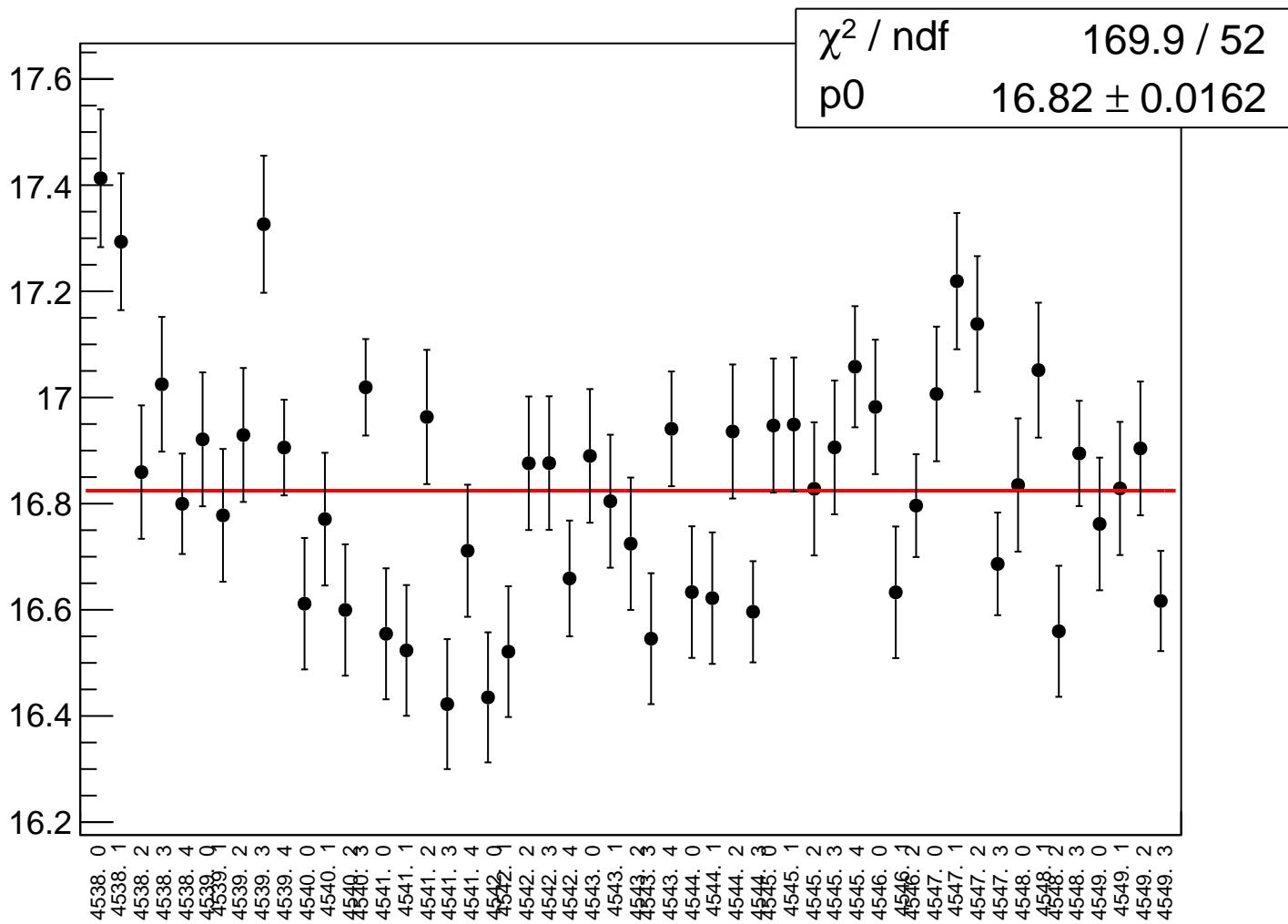
# asym\_bcm\_an\_avg\_bcm\_dg\_ds\_agg\_dd\_rms vs run



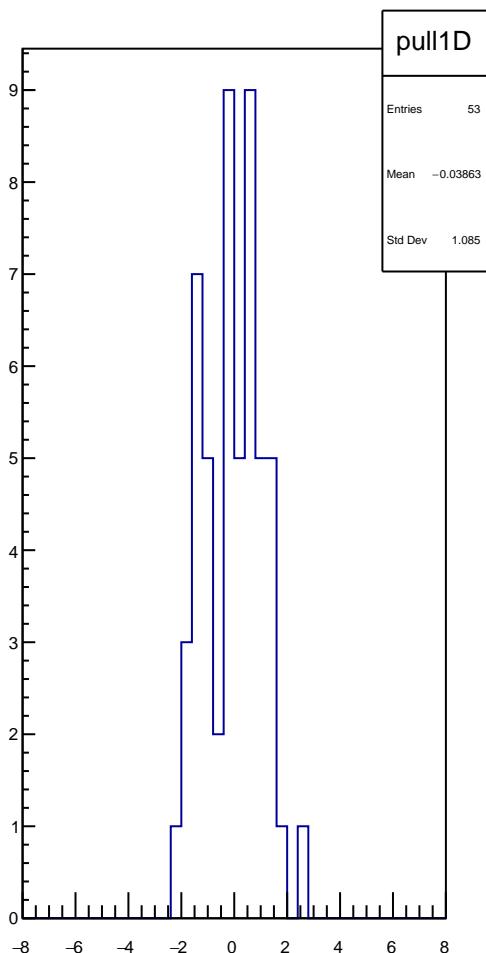
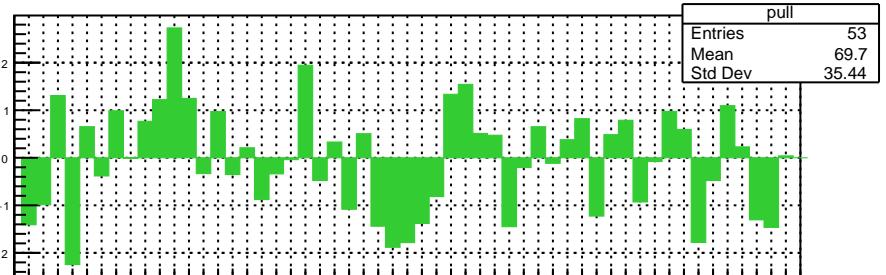
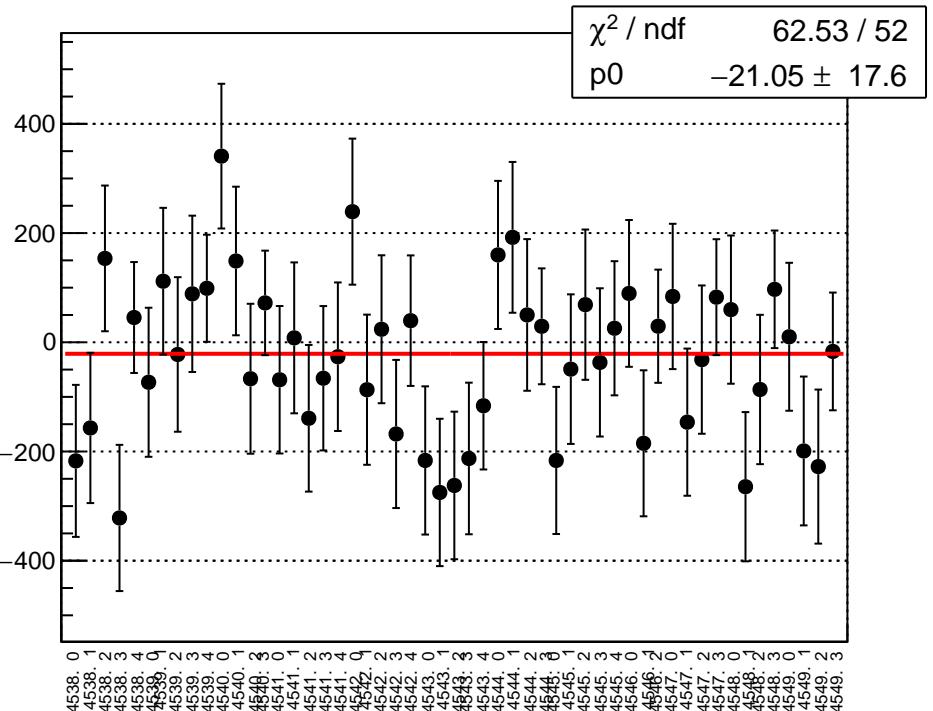
# asym\_bcm\_an\_avg\_bcm\_dg\_us\_agg\_dd\_mean vs run



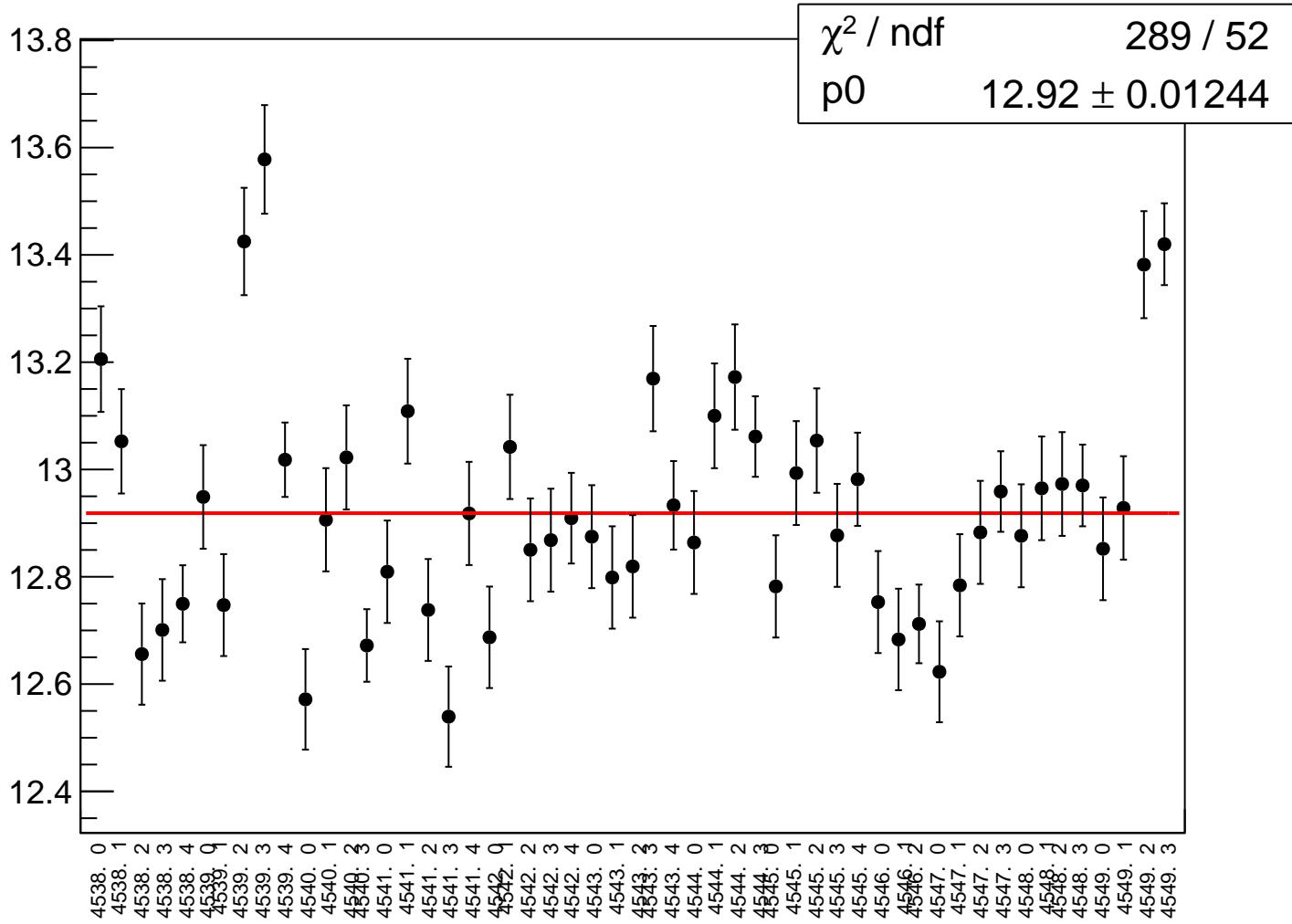
# asym\_bcm\_an\_avg\_bcm\_dg\_us\_agg\_dd\_rms vs run

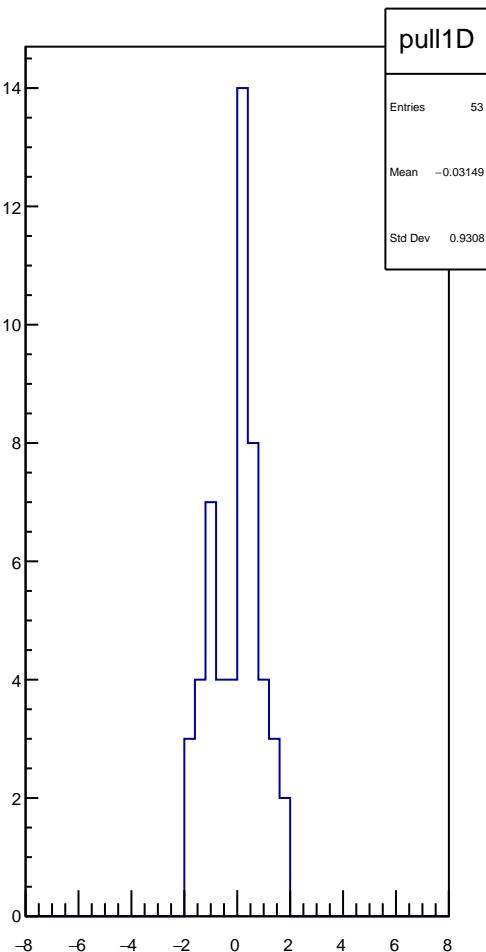
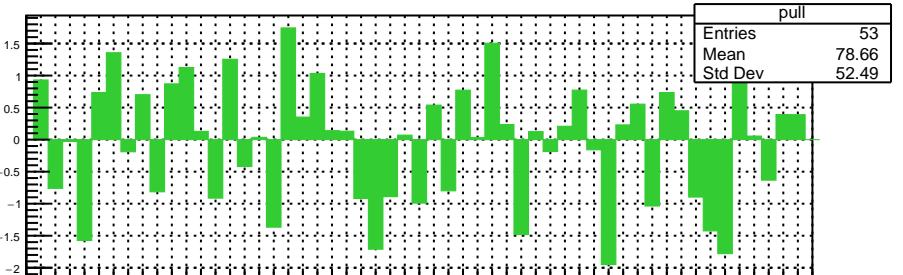
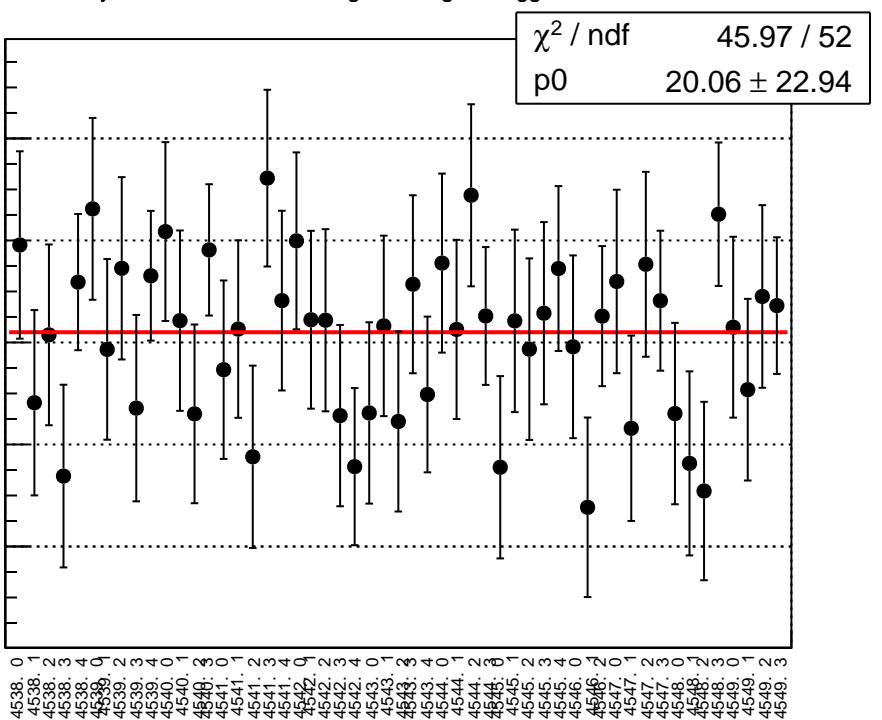


asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_ds\_agg\_dd\_mean vs run

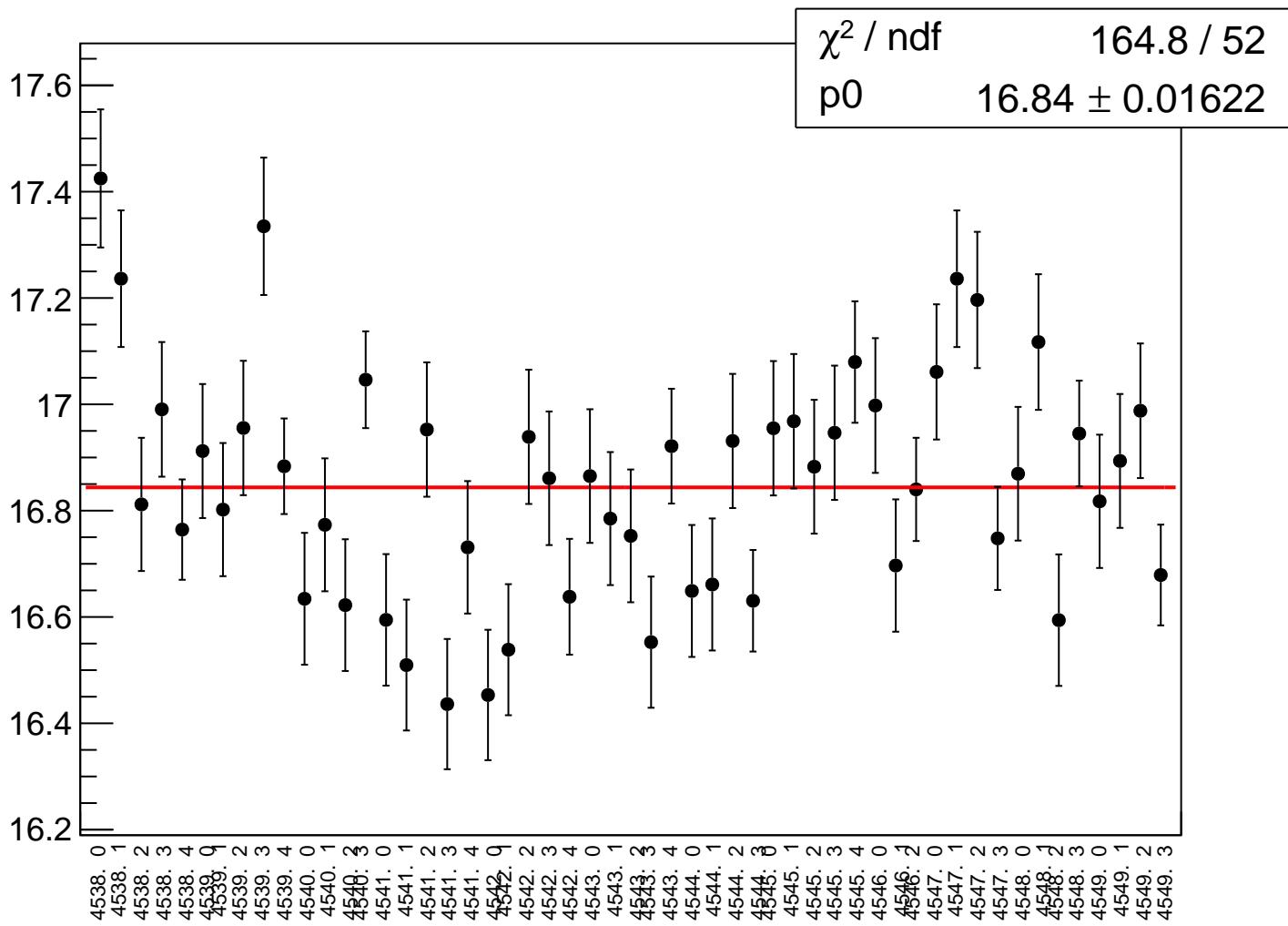


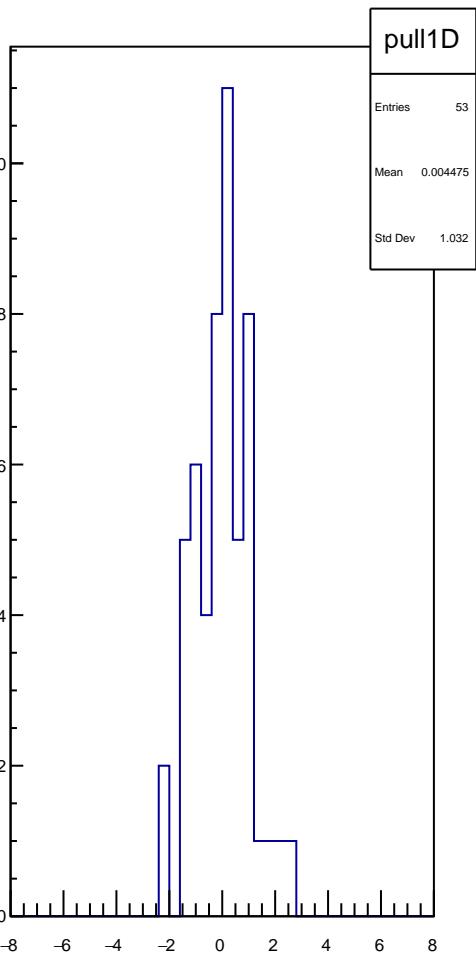
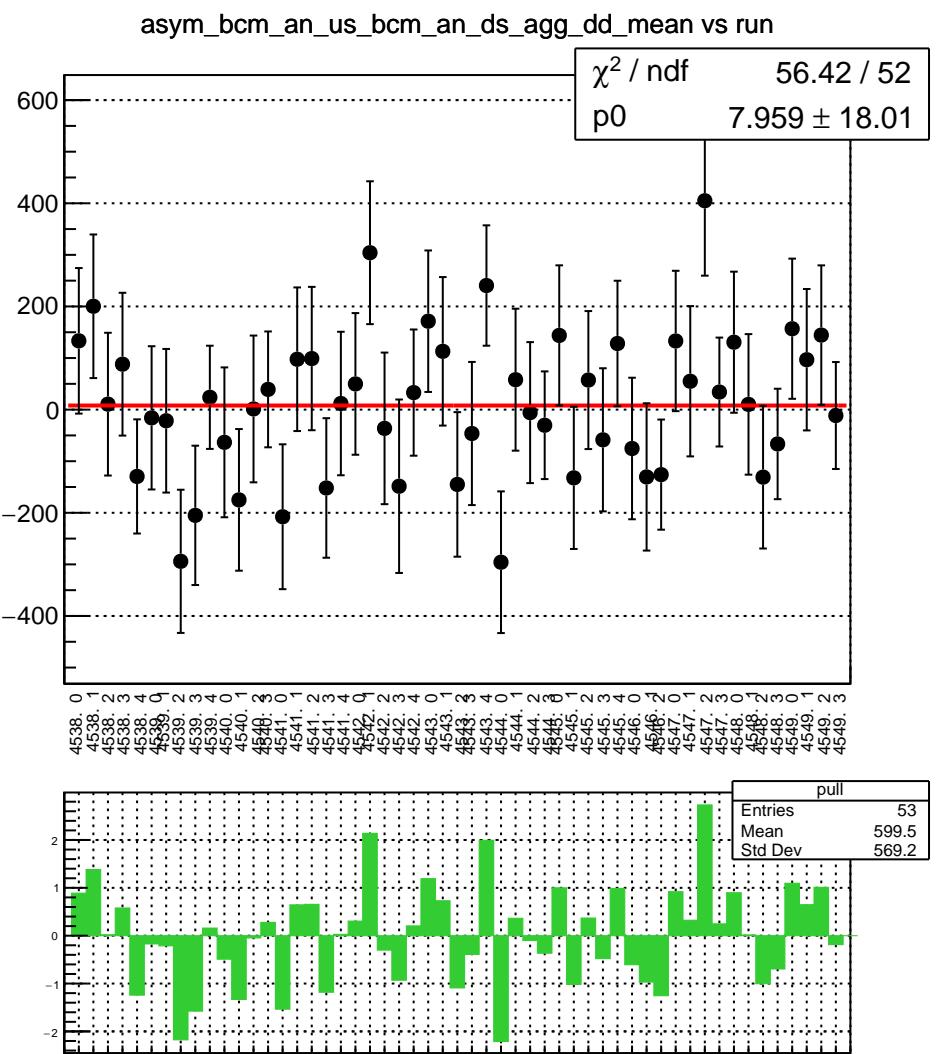
# asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_ds\_agg\_dd\_rms vs run



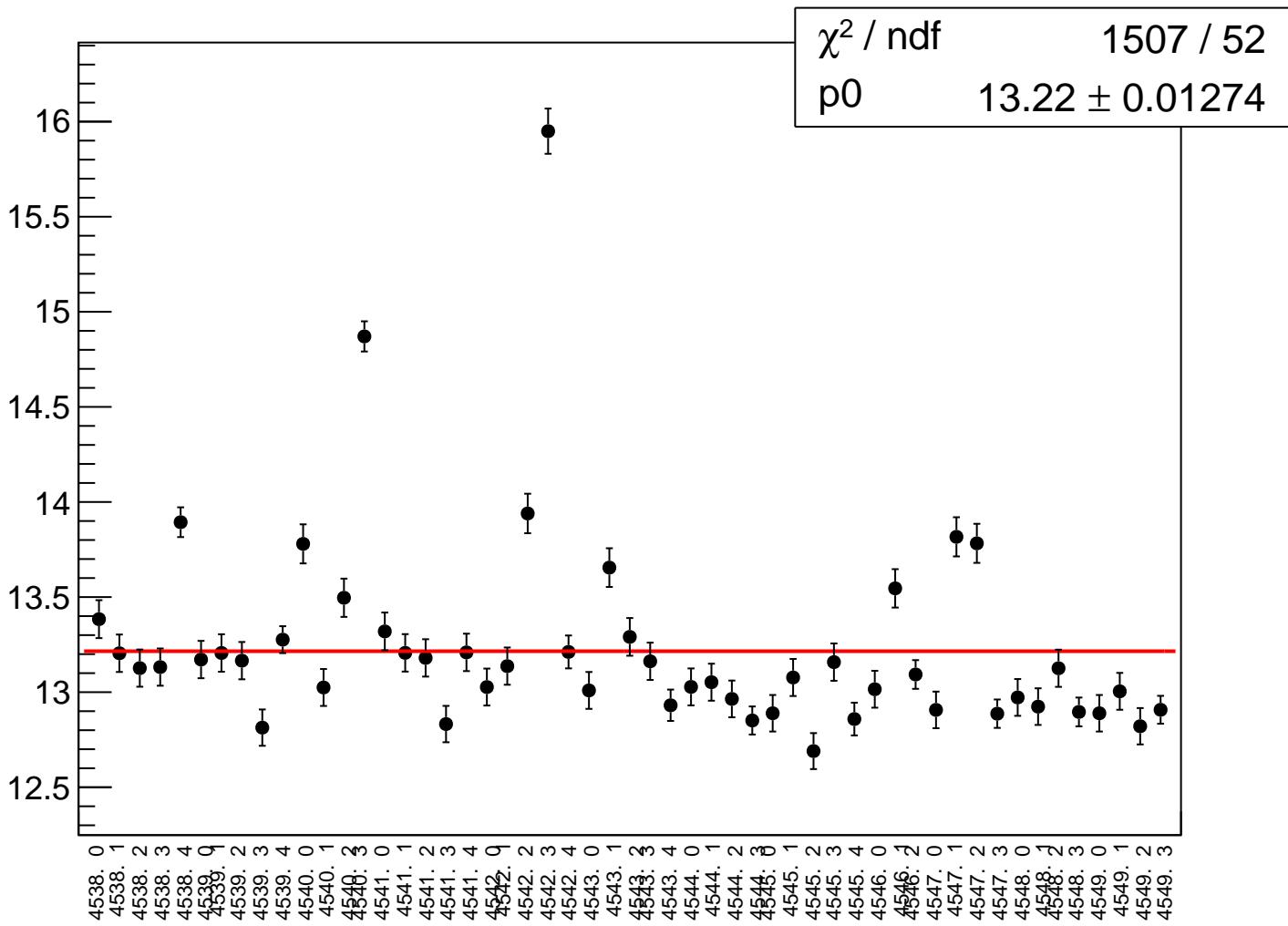


# asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_us\_agg\_dd\_rms vs run



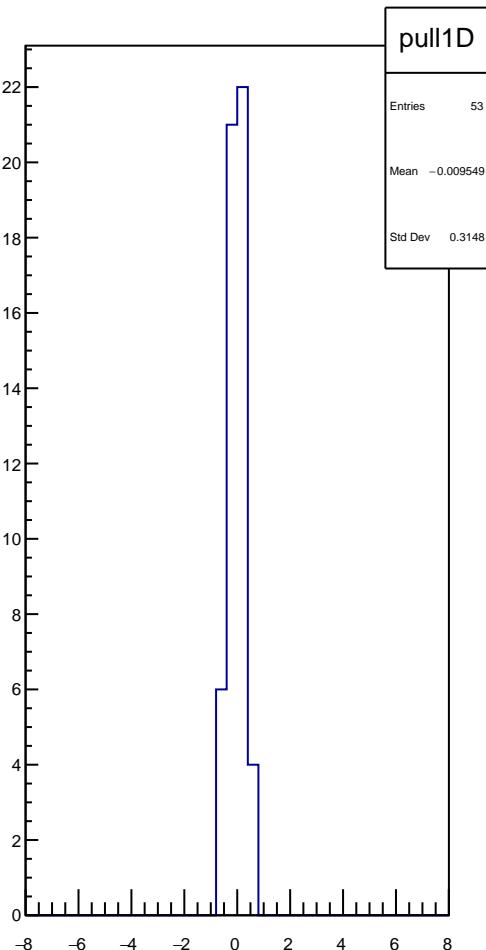
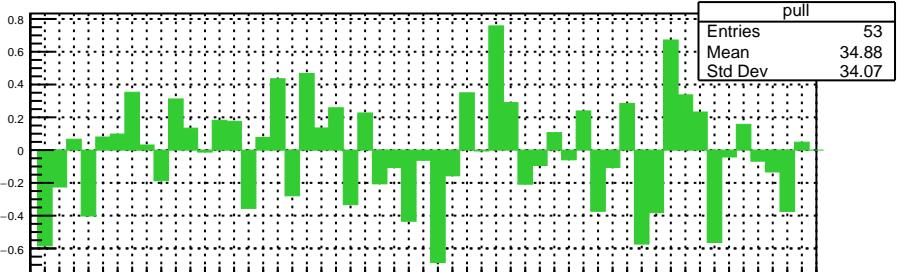
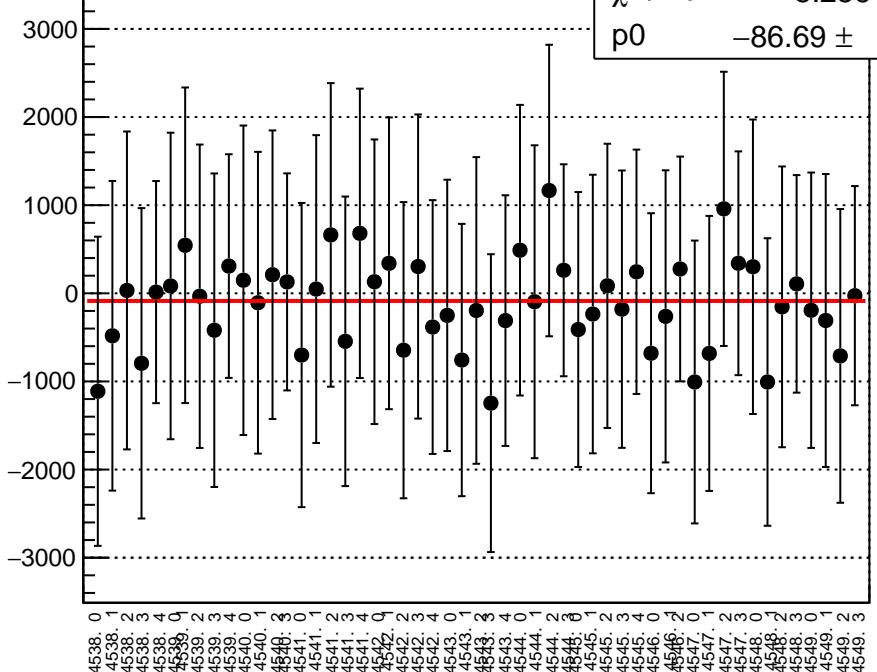


# asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_rms vs run

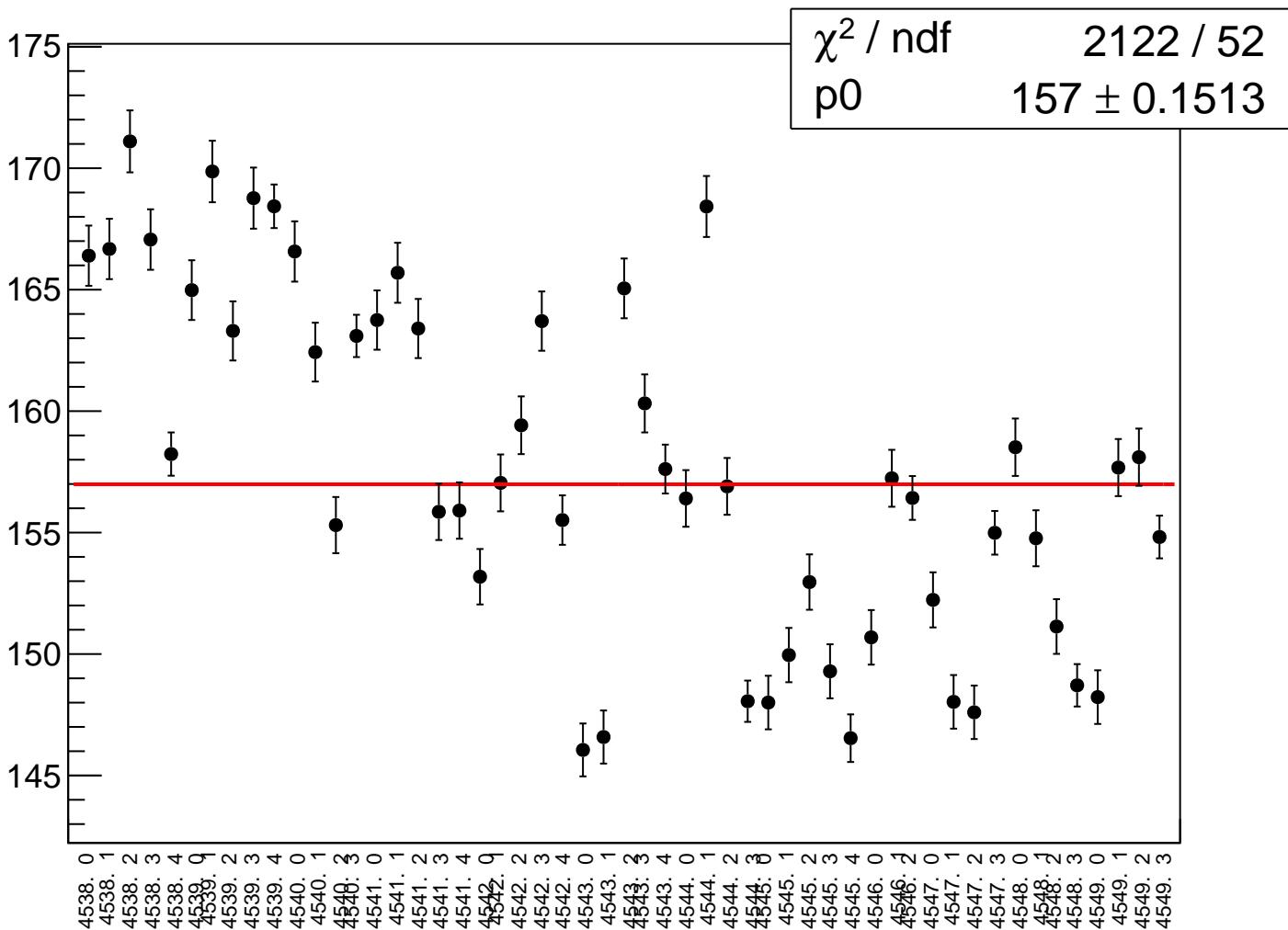


# asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_mean vs run

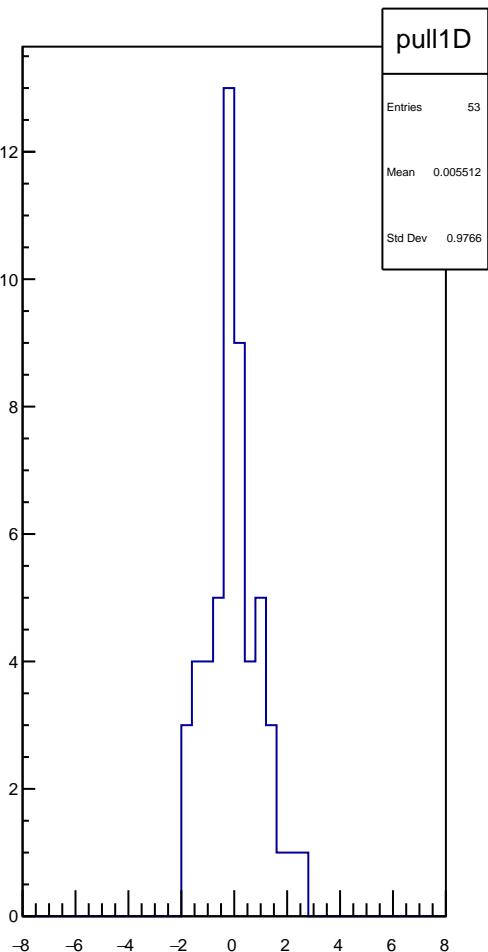
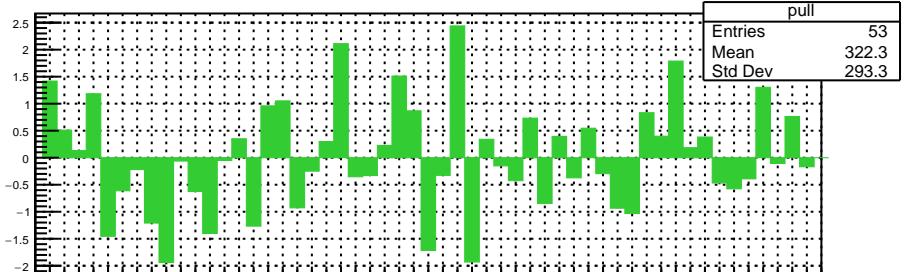
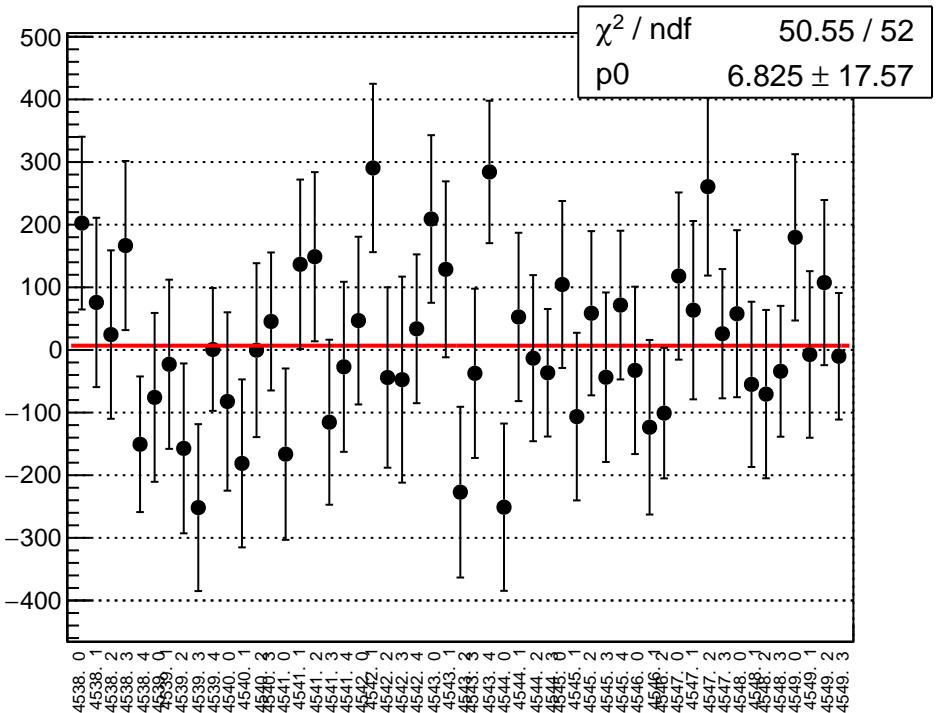
$\chi^2 / \text{ndf}$  5.256 / 52  
 $p0$   $-86.69 \pm 214$



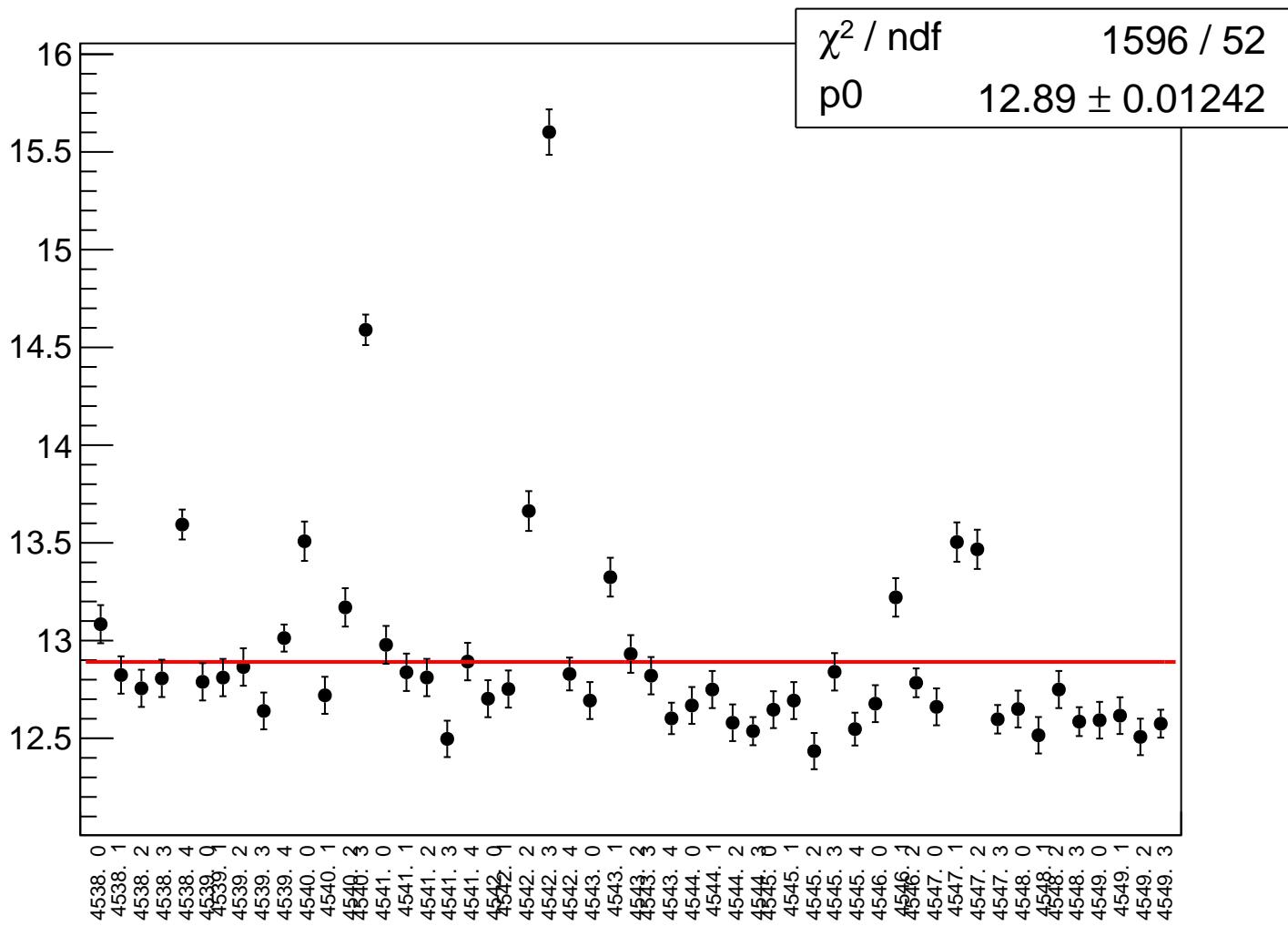
# asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_rms vs run



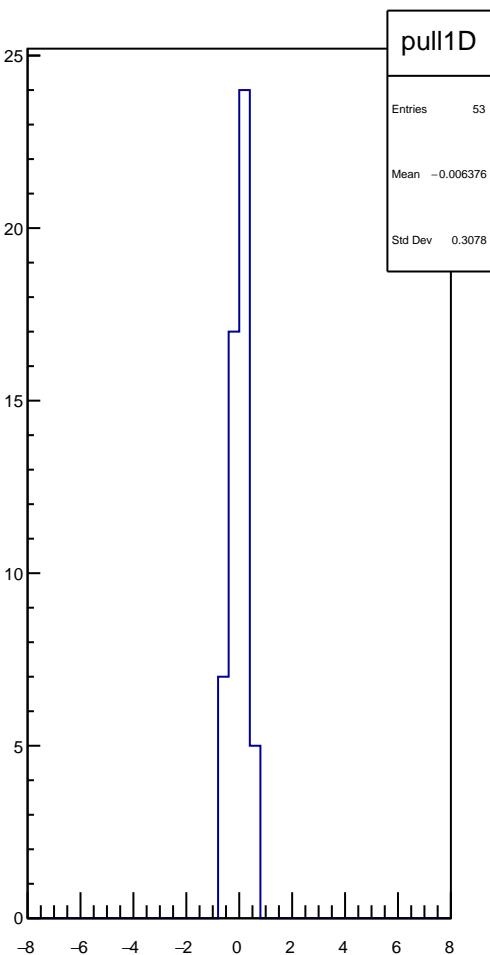
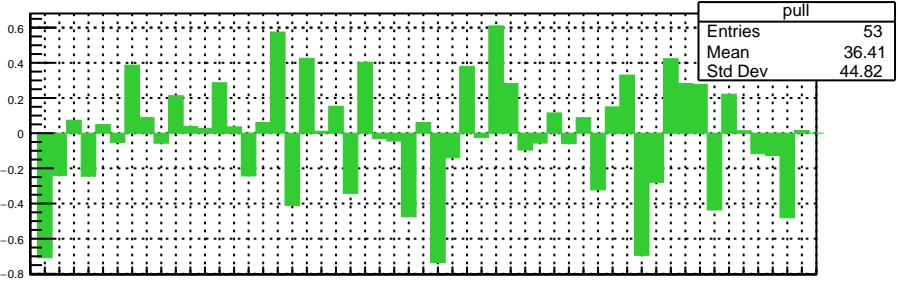
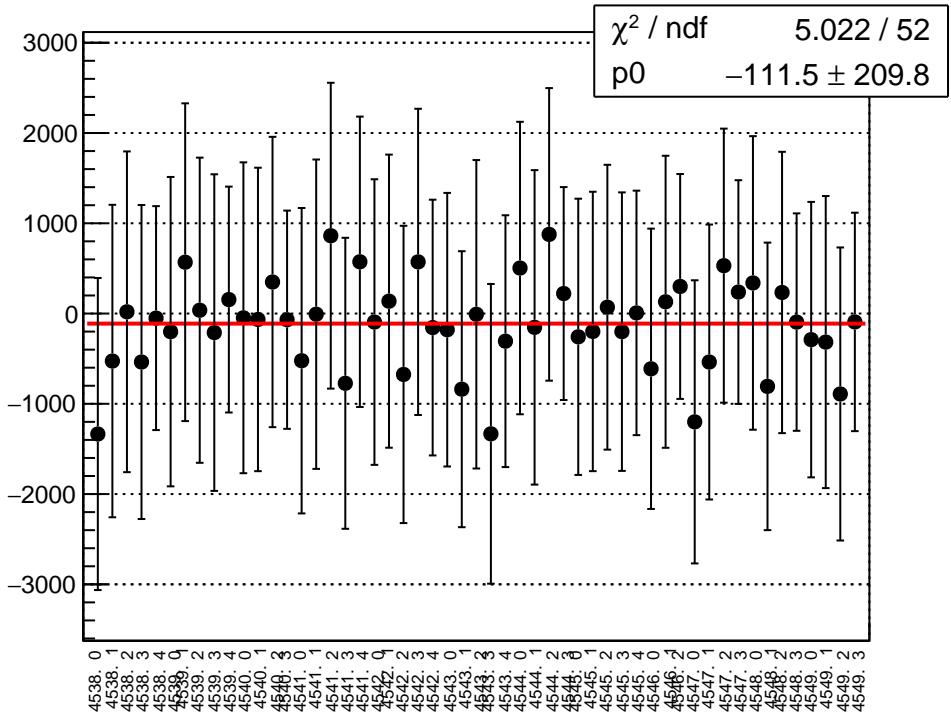
asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_mean vs run



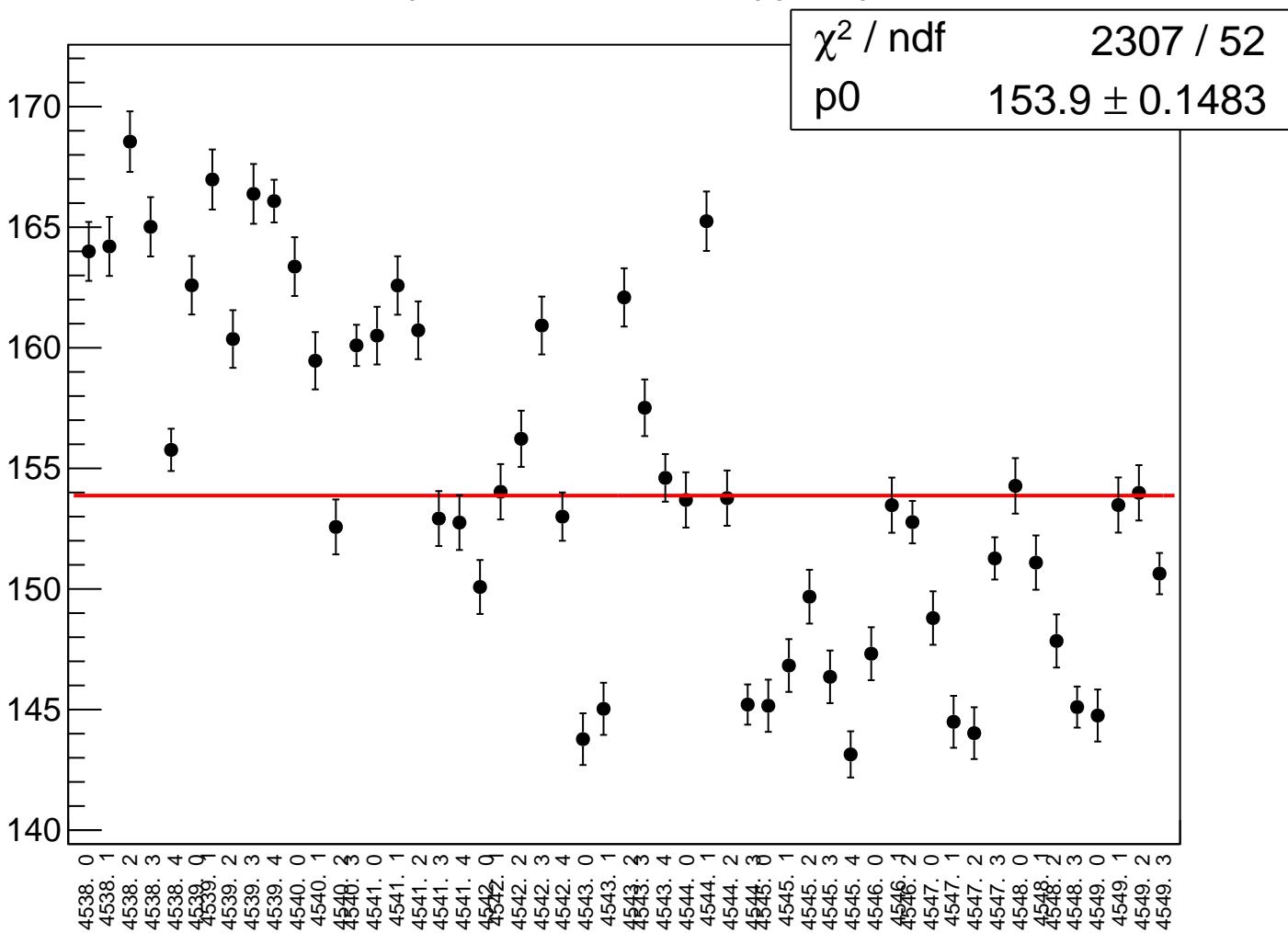
# asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_rms vs run



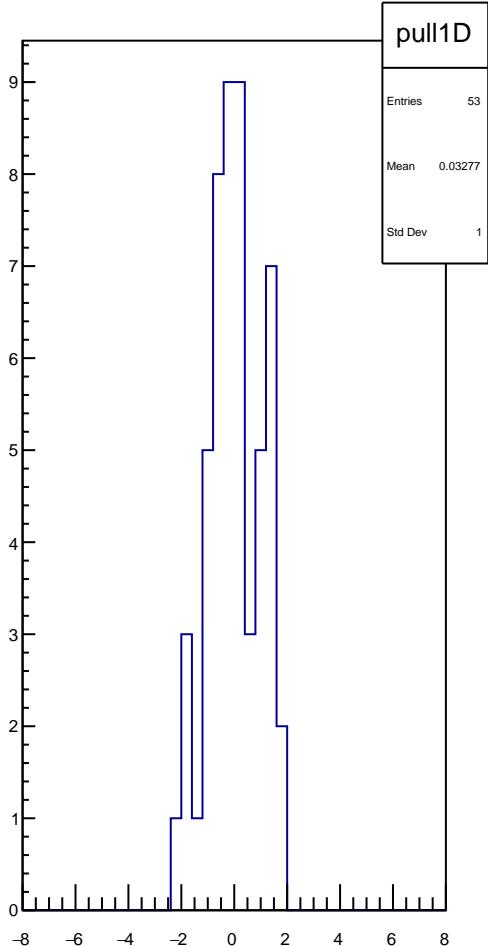
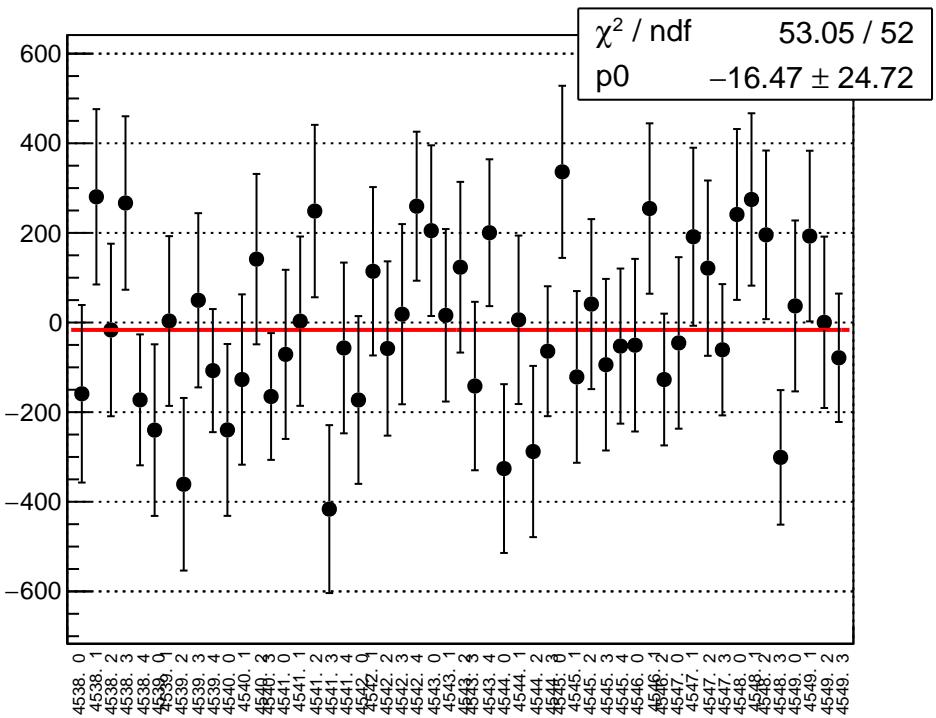
# asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_mean vs run



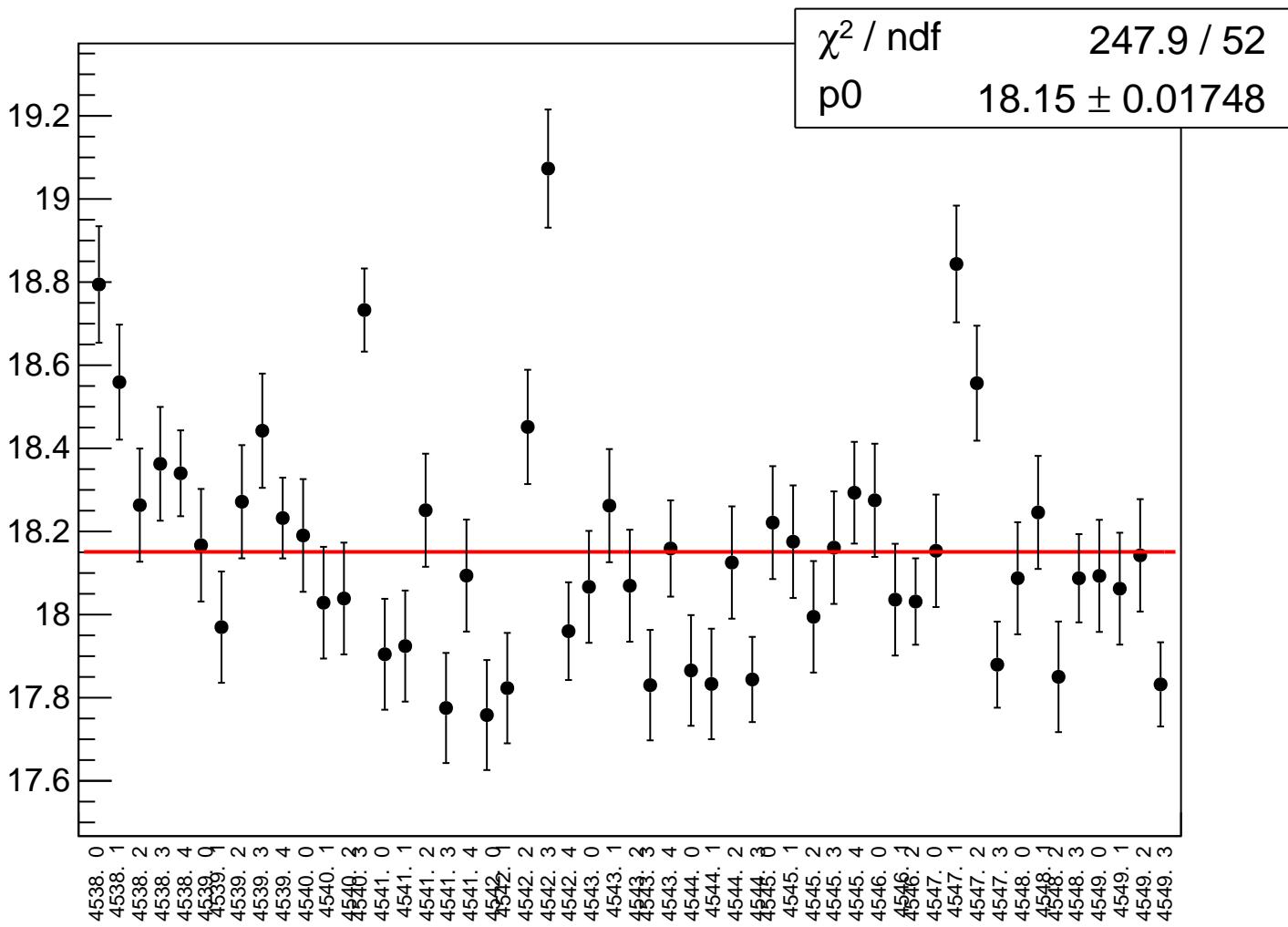
# asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_rms vs run



# asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_mean vs run

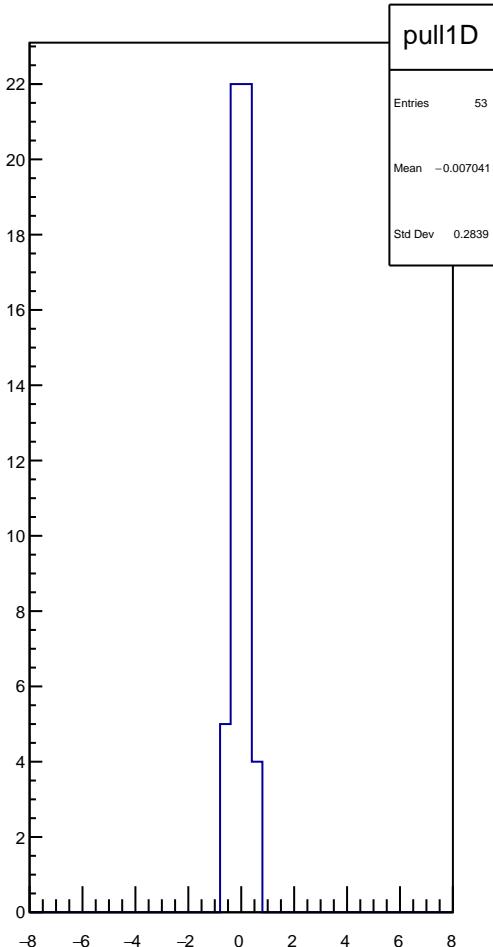
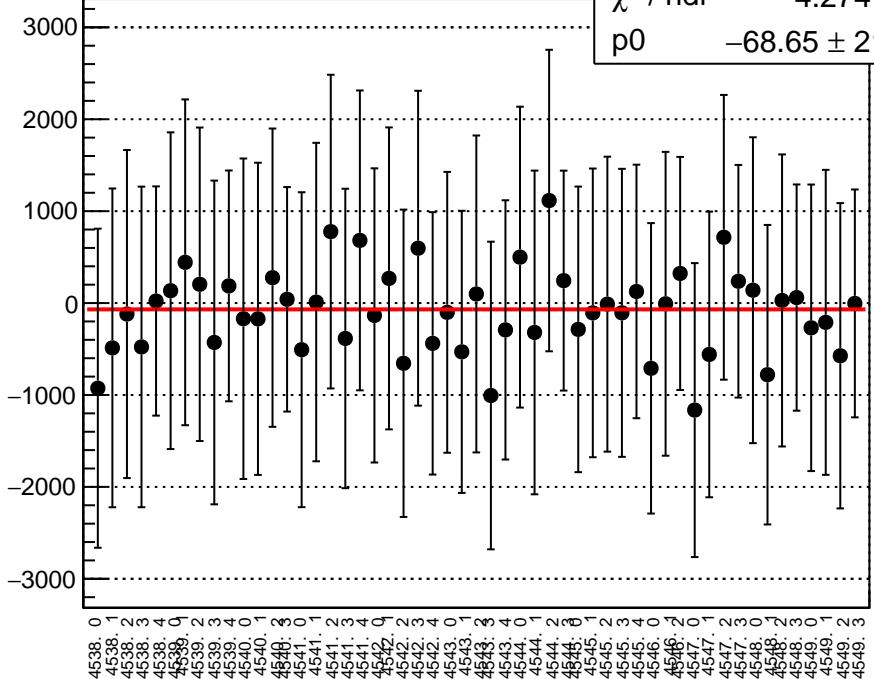


# asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_rms vs run

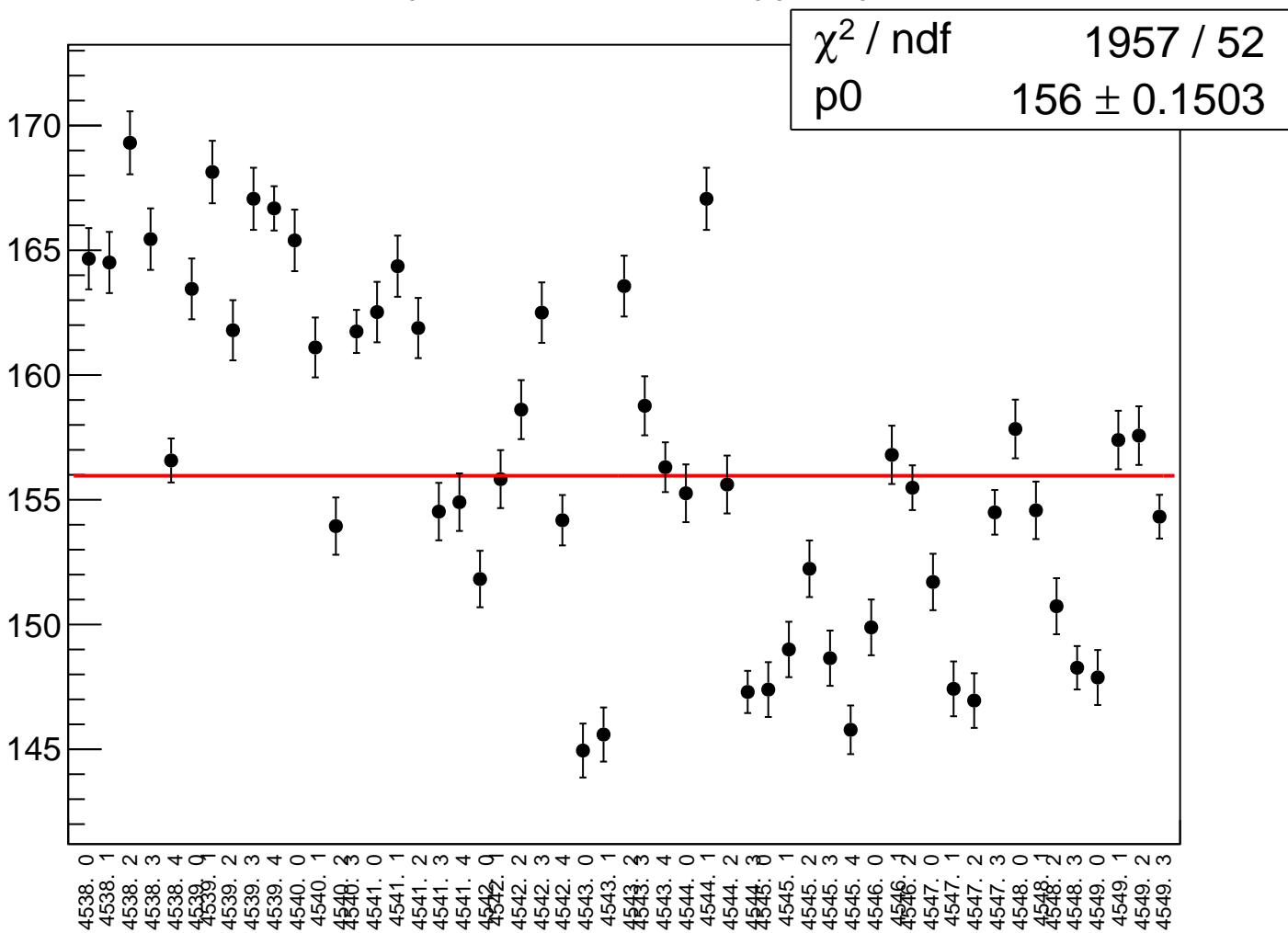


# asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_mean vs run

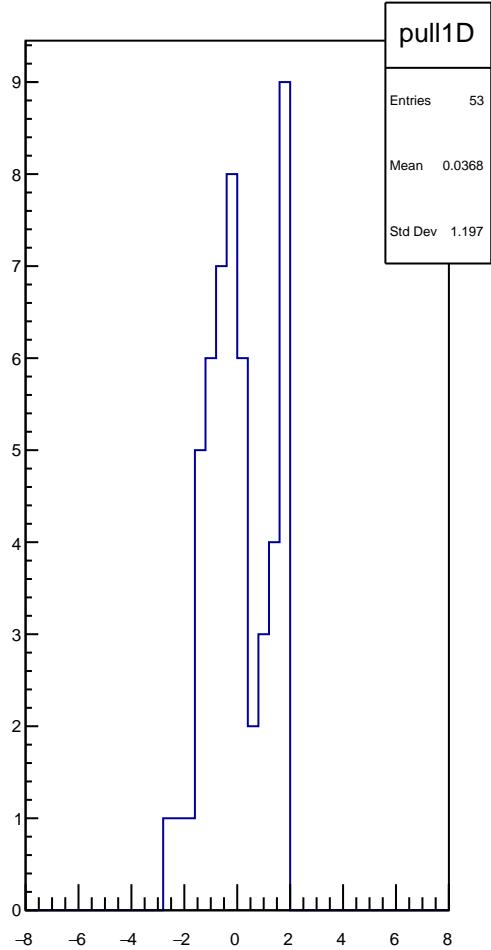
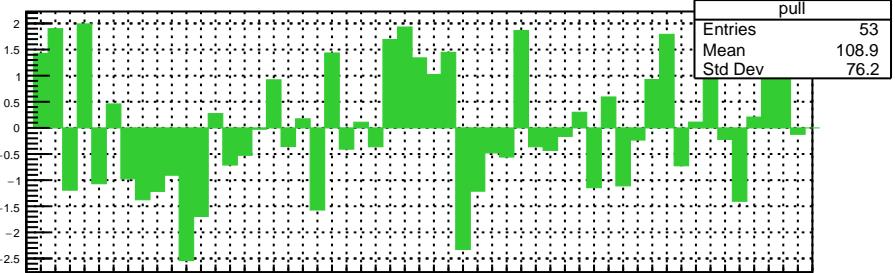
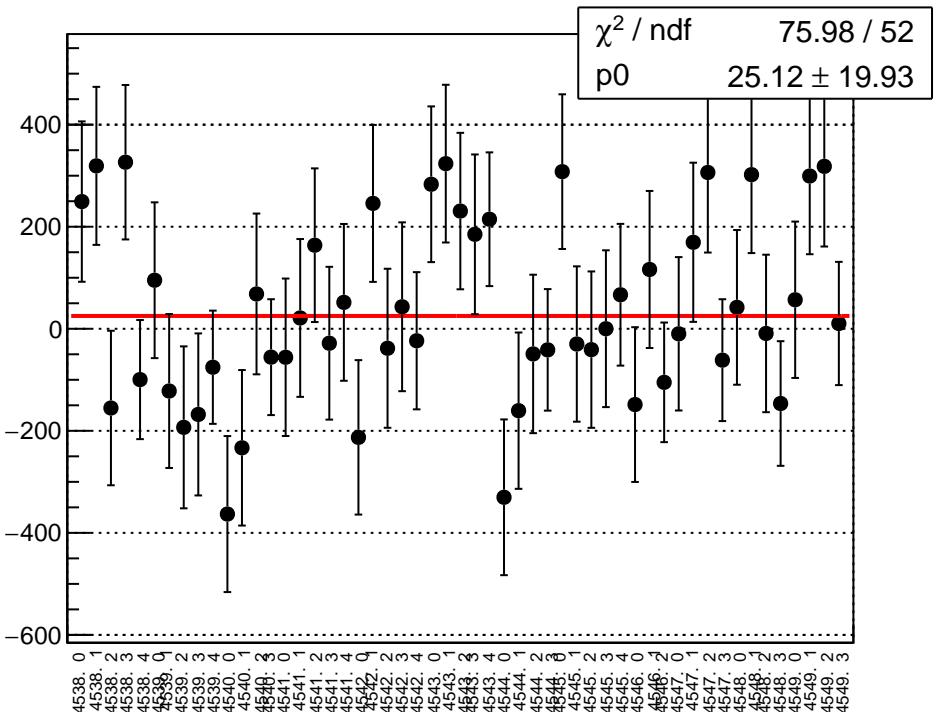
$\chi^2 / \text{ndf}$  4.274 / 52  
 $p0$   $-68.65 \pm 212.6$



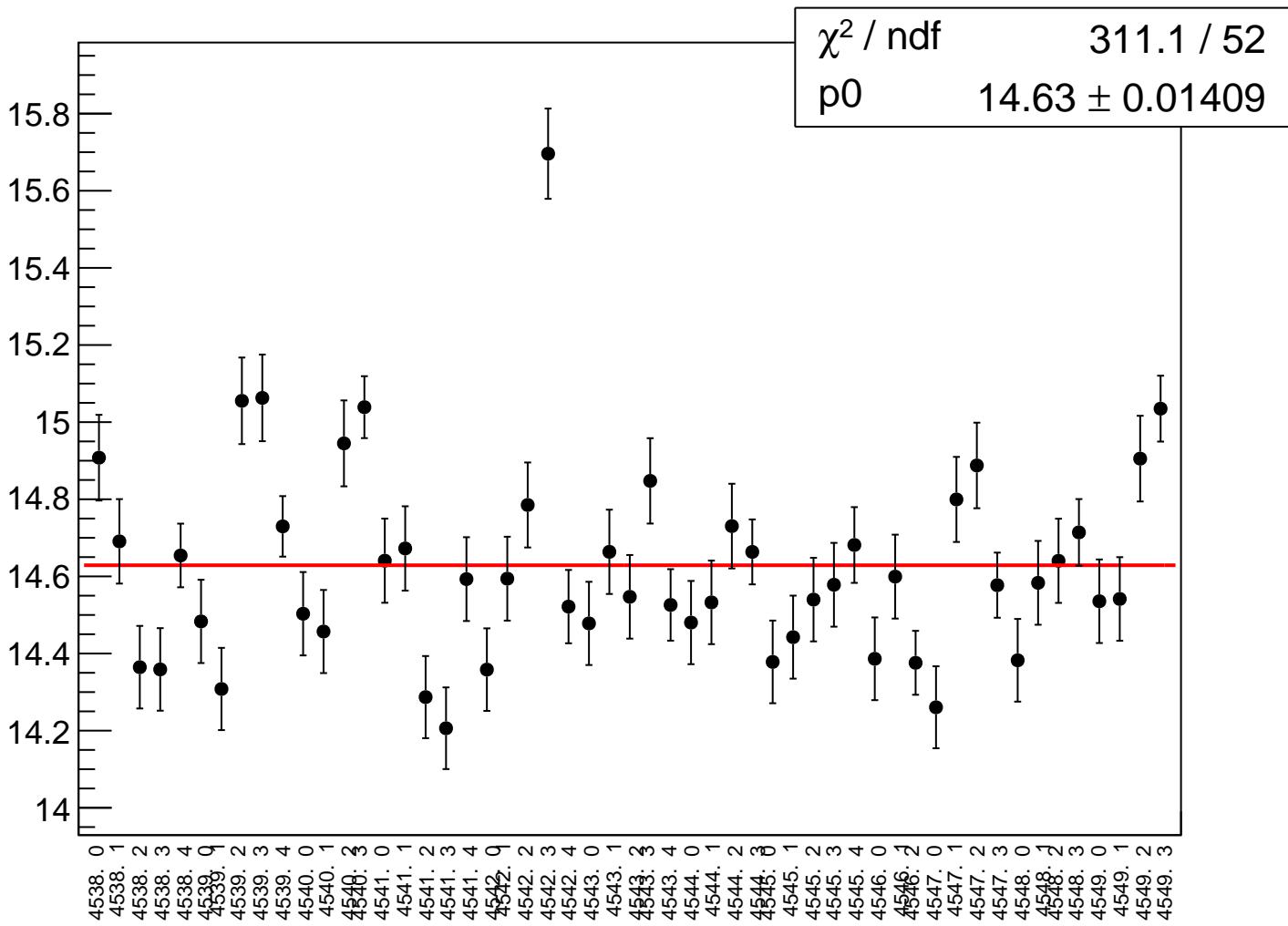
# asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_rms vs run



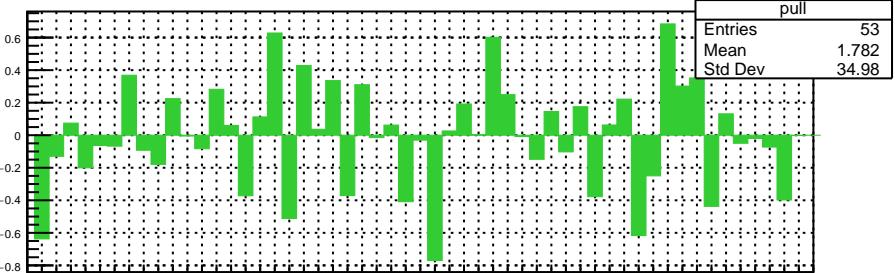
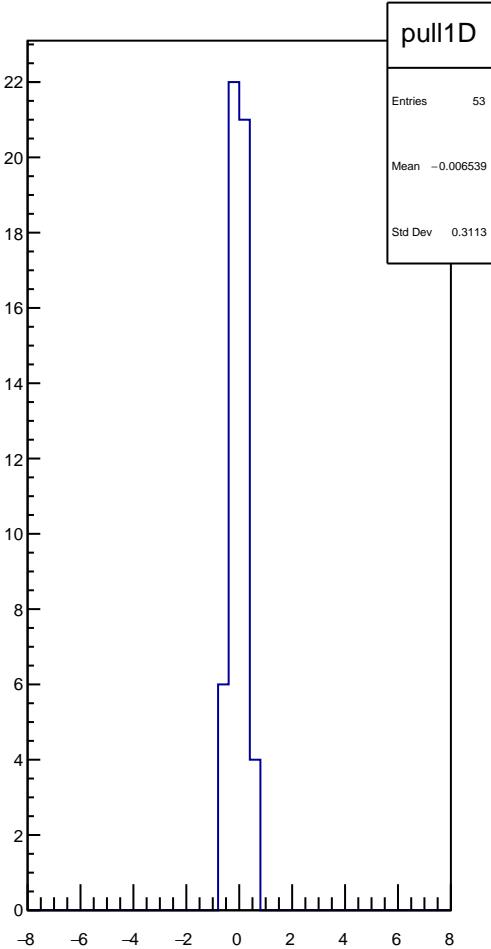
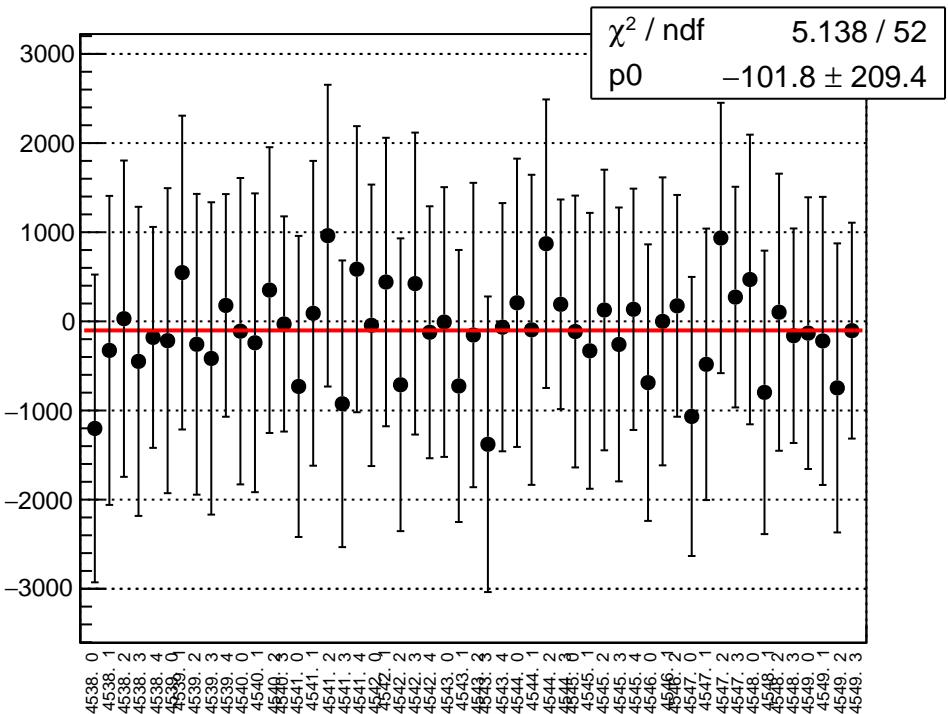
# asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_mean vs run



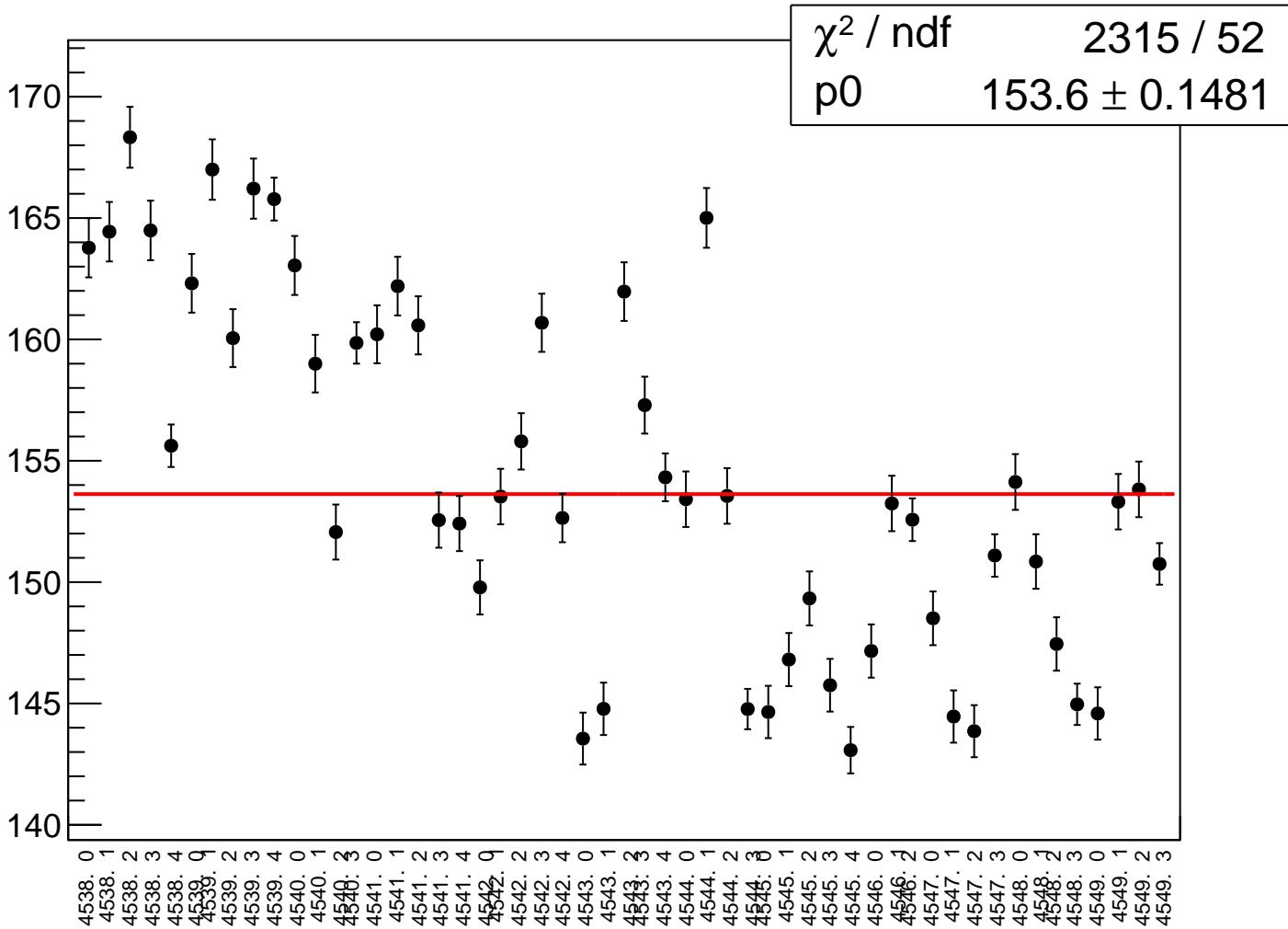
# asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_rms vs run



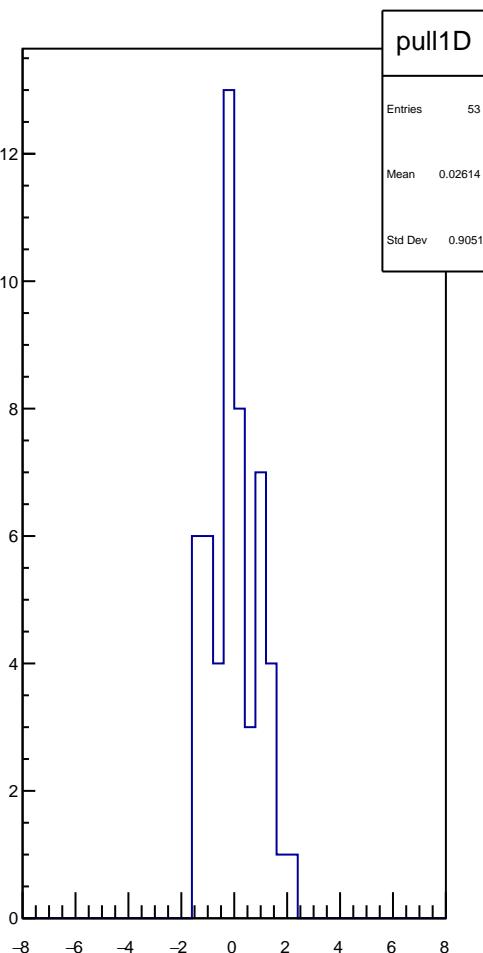
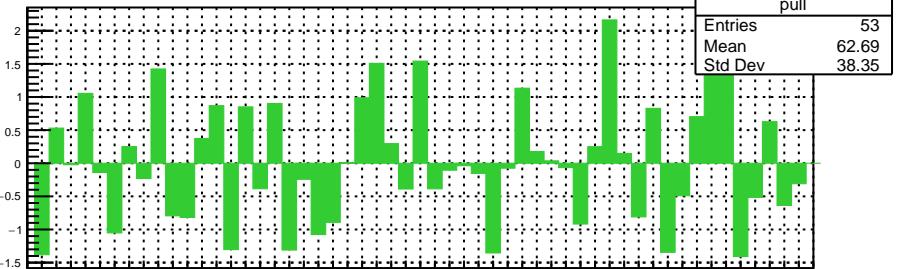
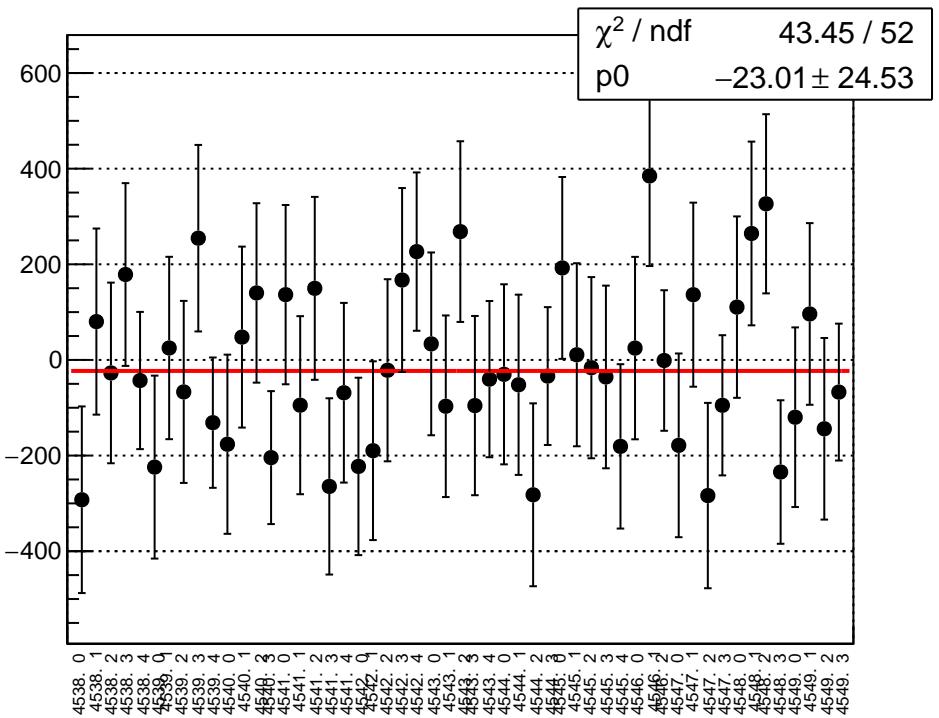
asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_mean vs run



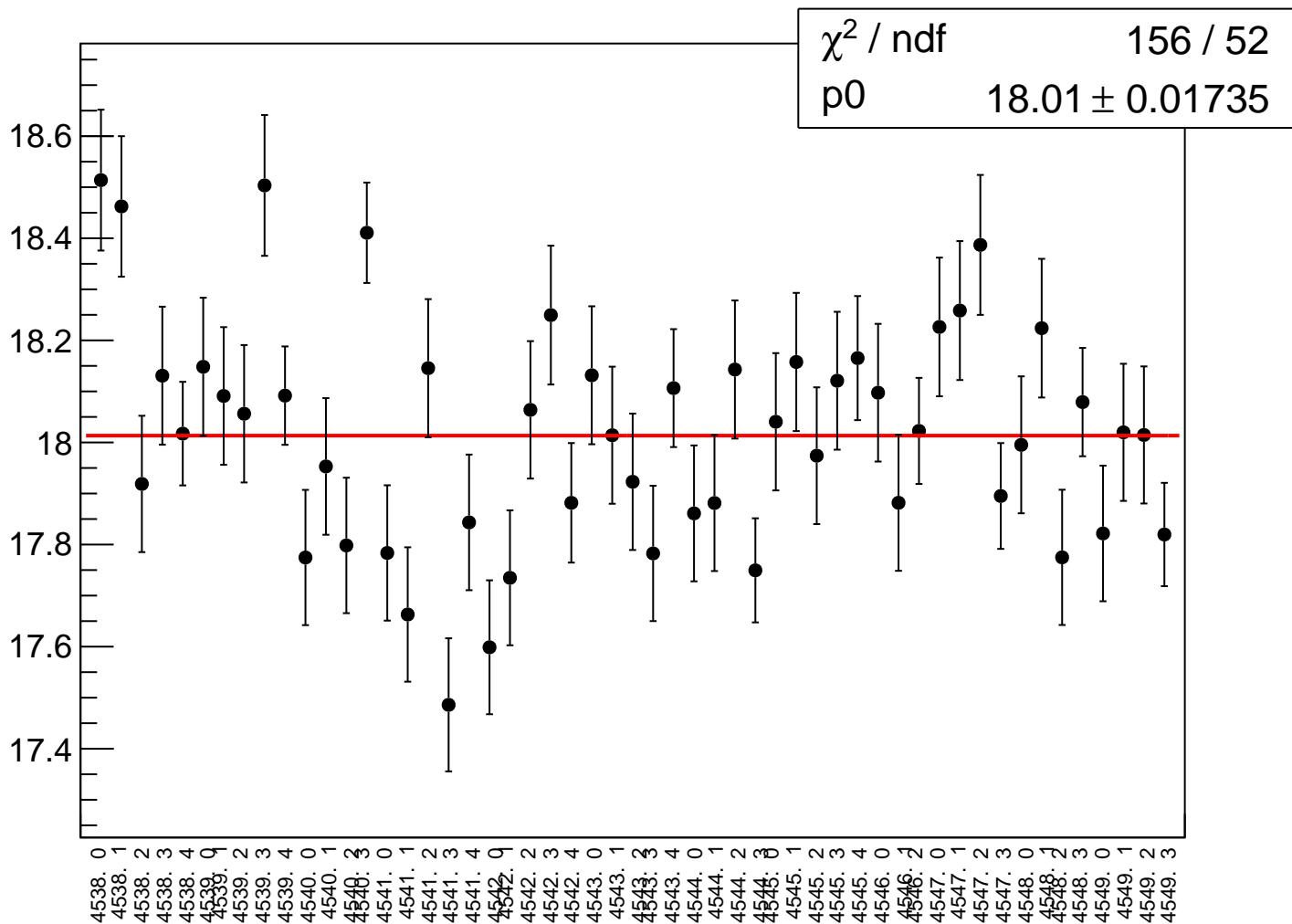
# asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_rms vs run



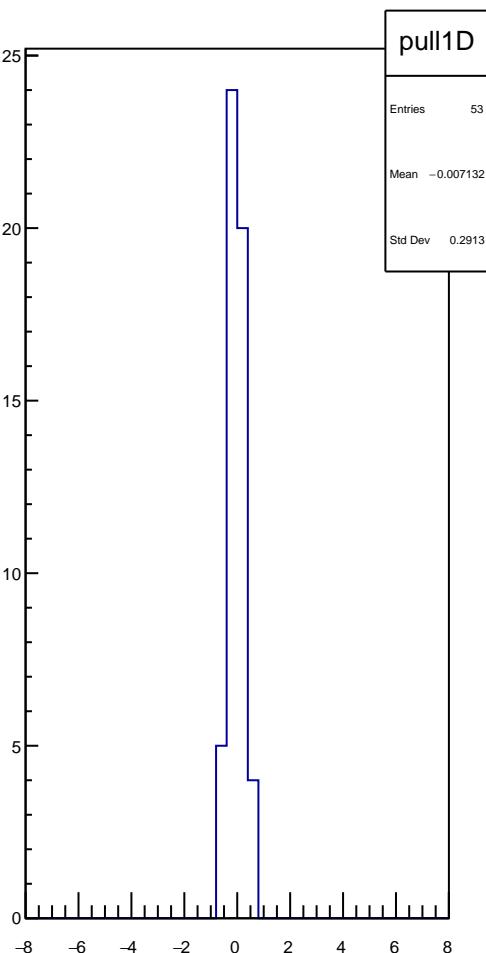
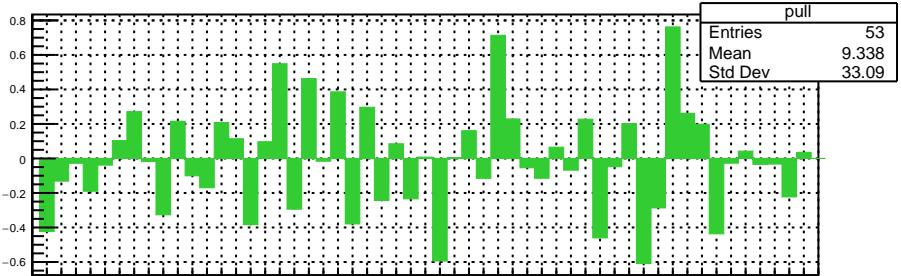
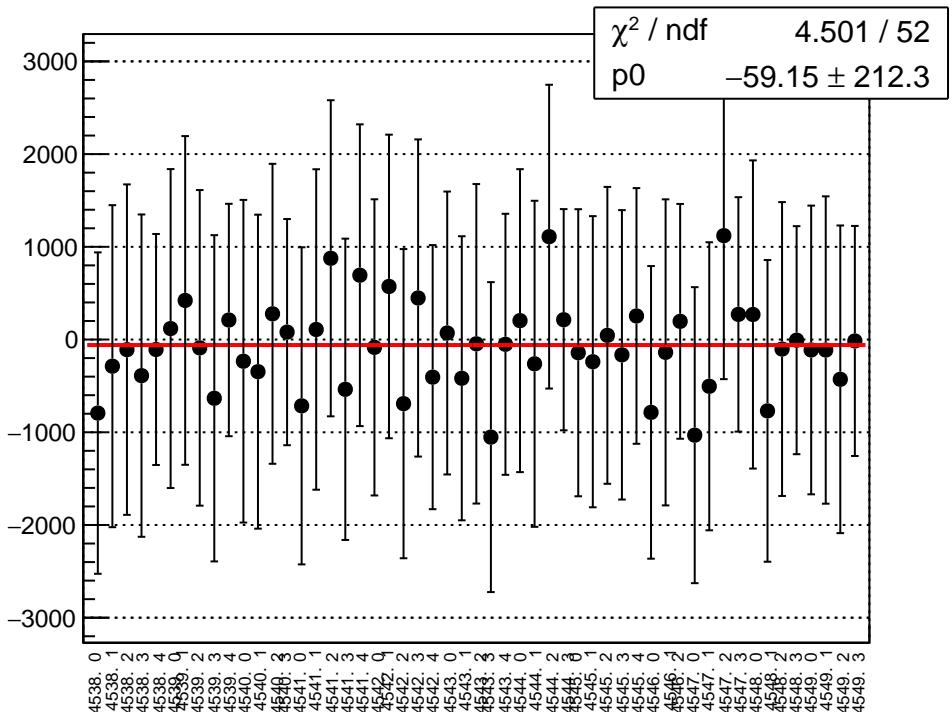
### asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_mean vs run



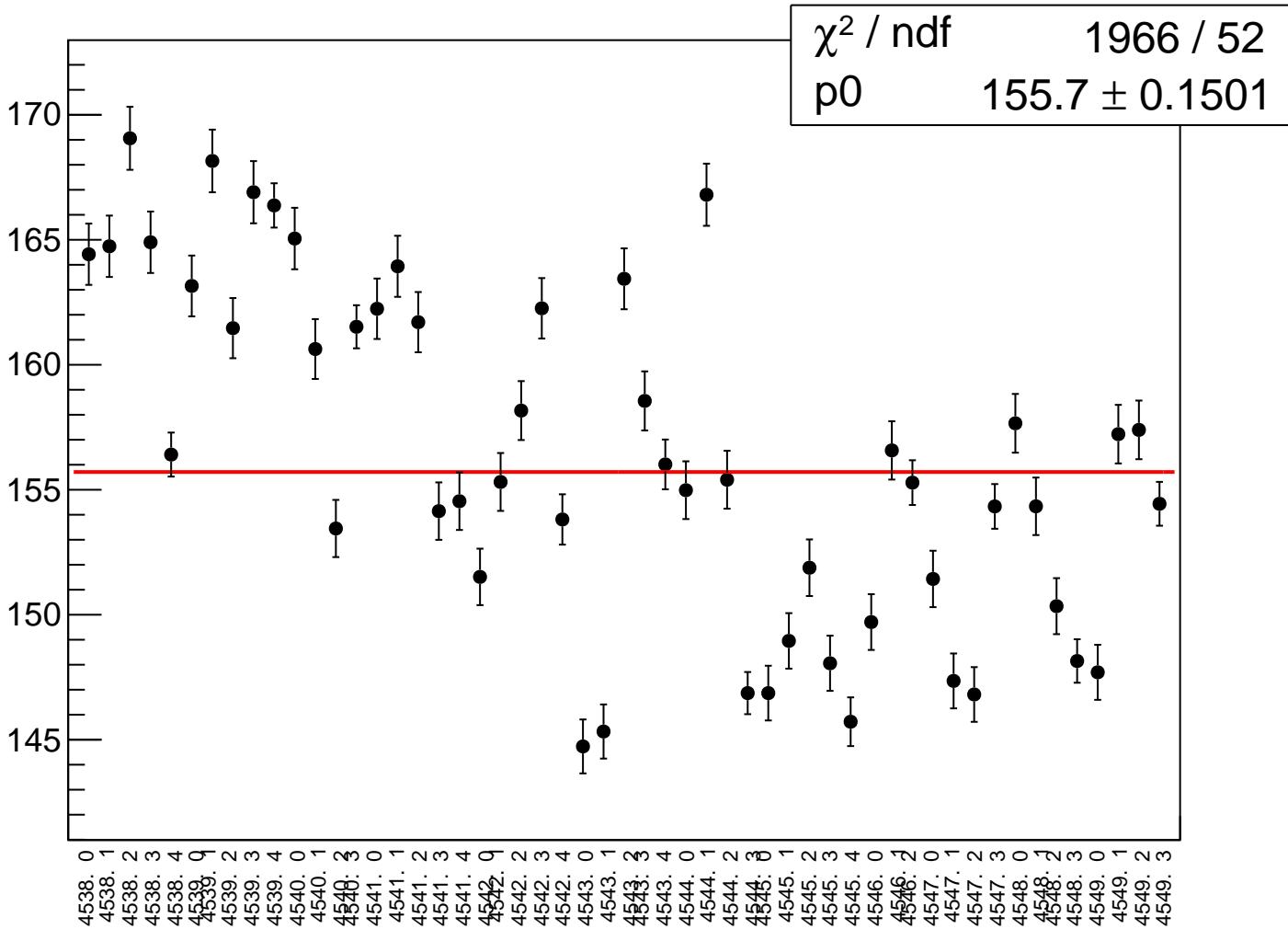
# asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_rms vs run



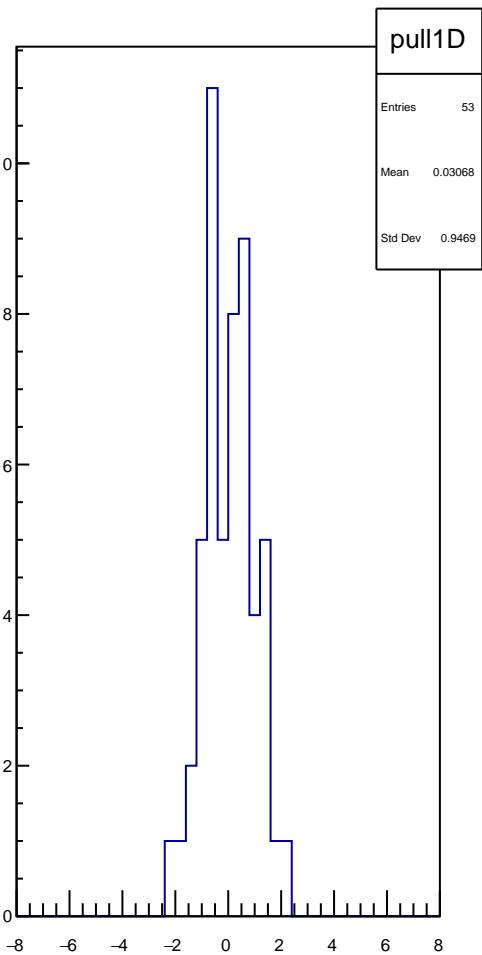
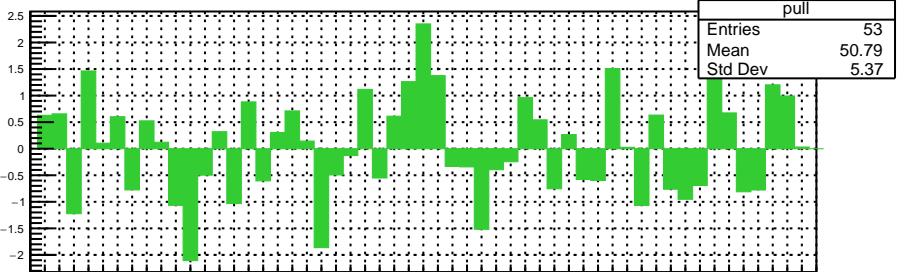
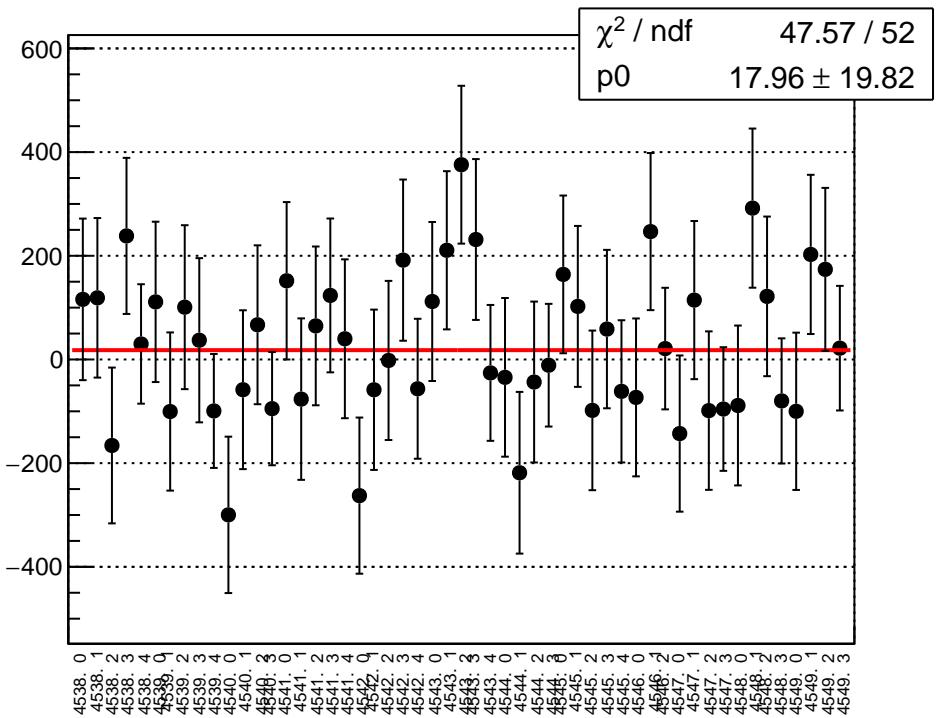
asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_mean vs run



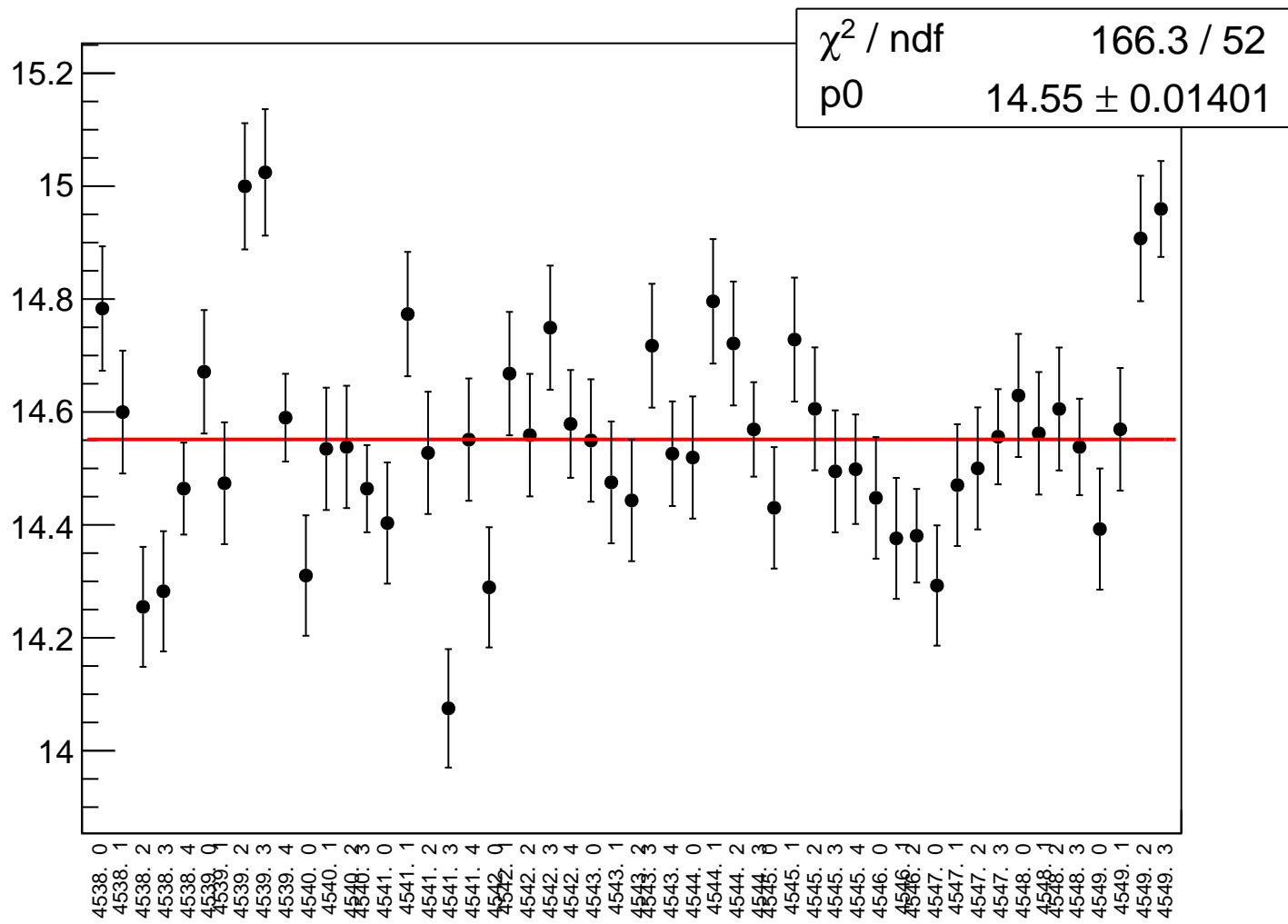
# asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_rms vs run



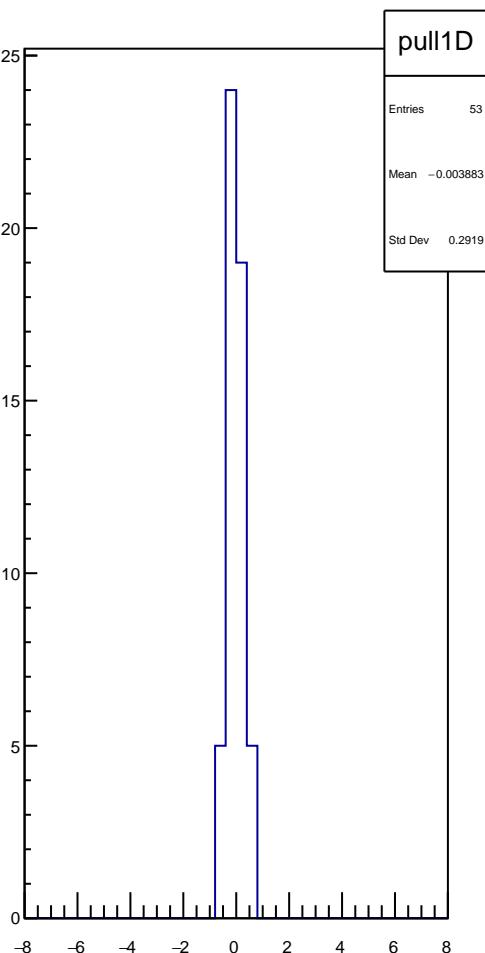
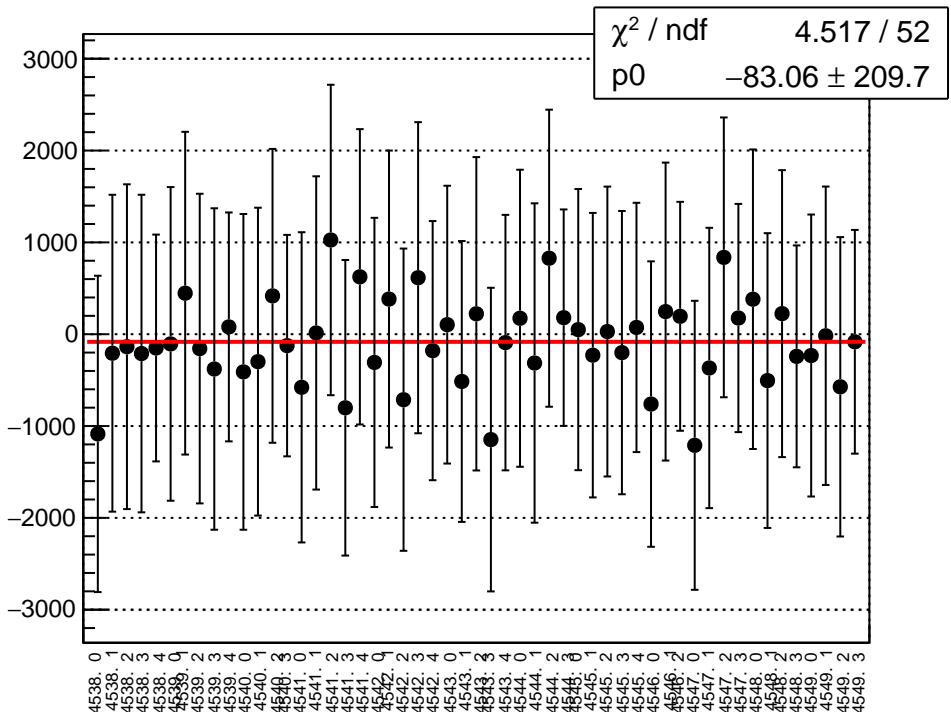
# asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_mean vs run



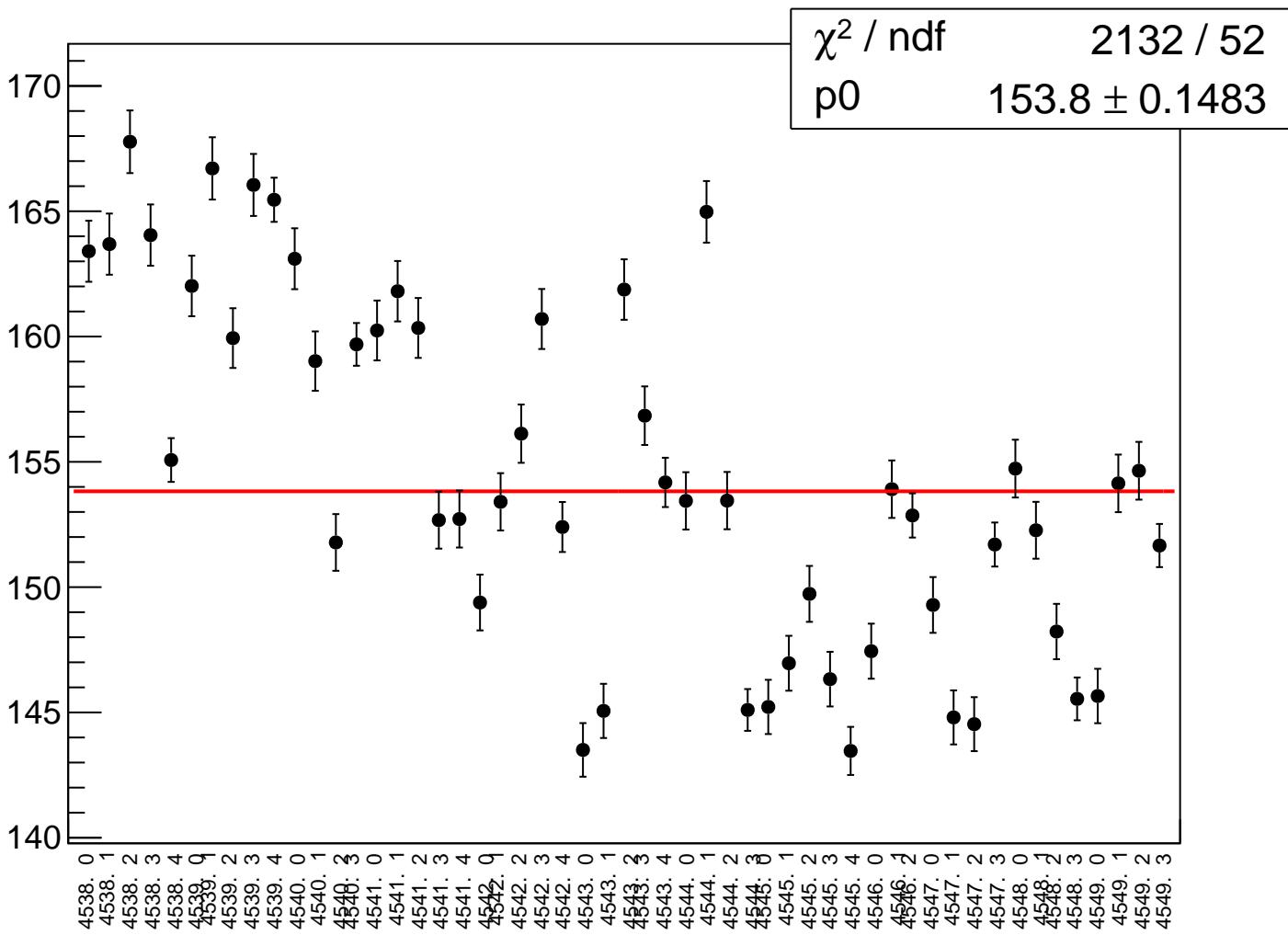
# asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_rms vs run



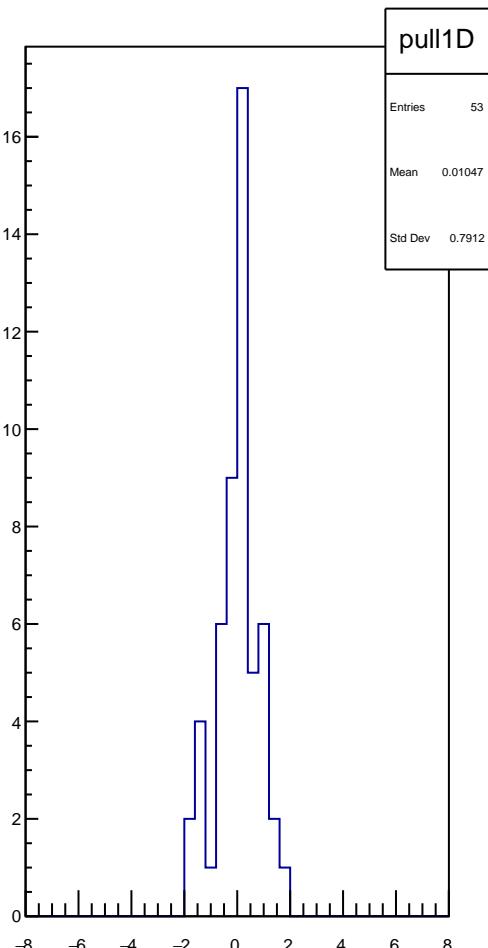
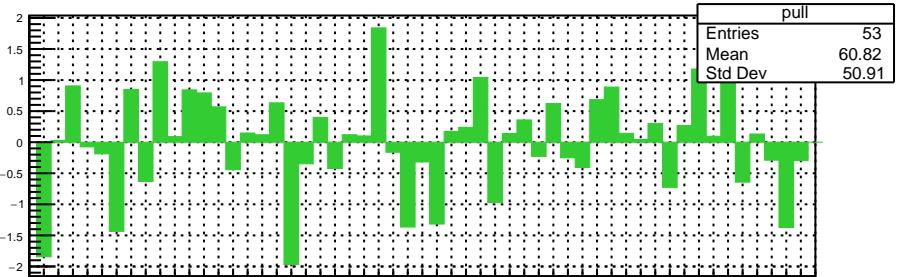
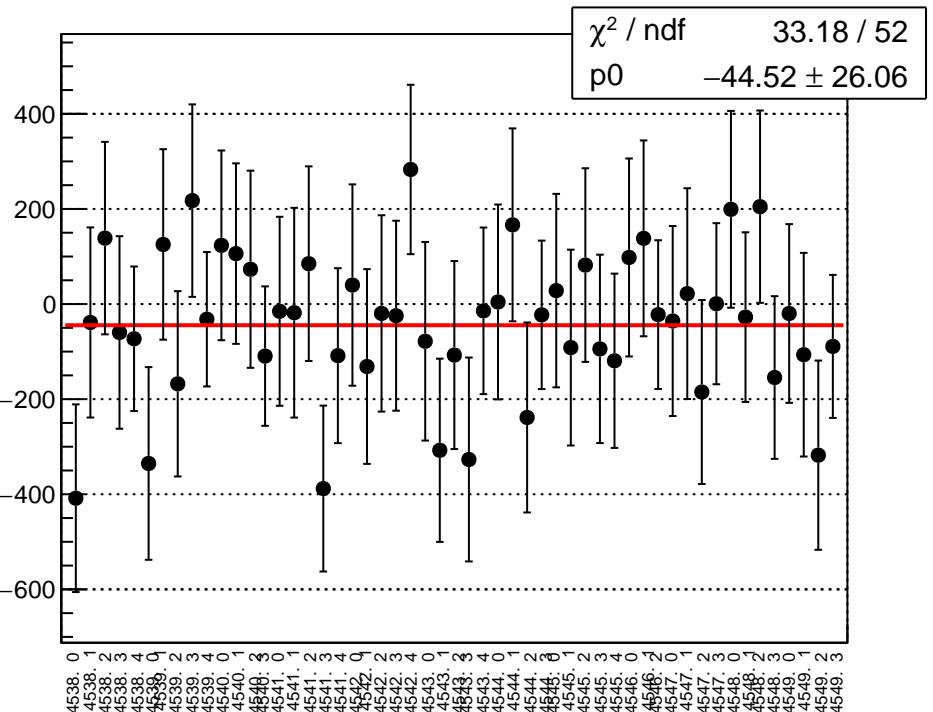
asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_mean vs run



# asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_rms vs run



asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_mean vs run



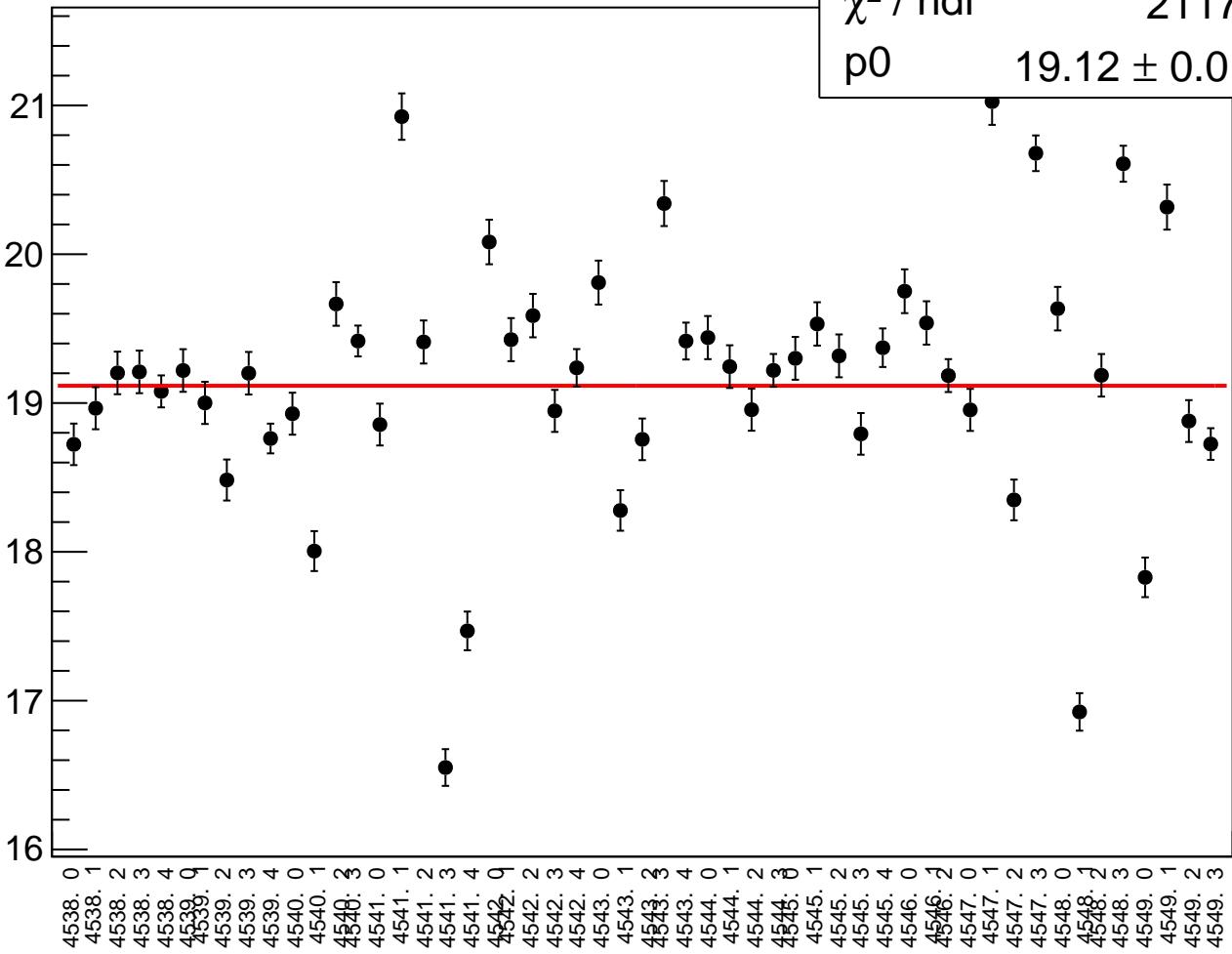
# asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_rms vs run

$\chi^2 / \text{ndf}$

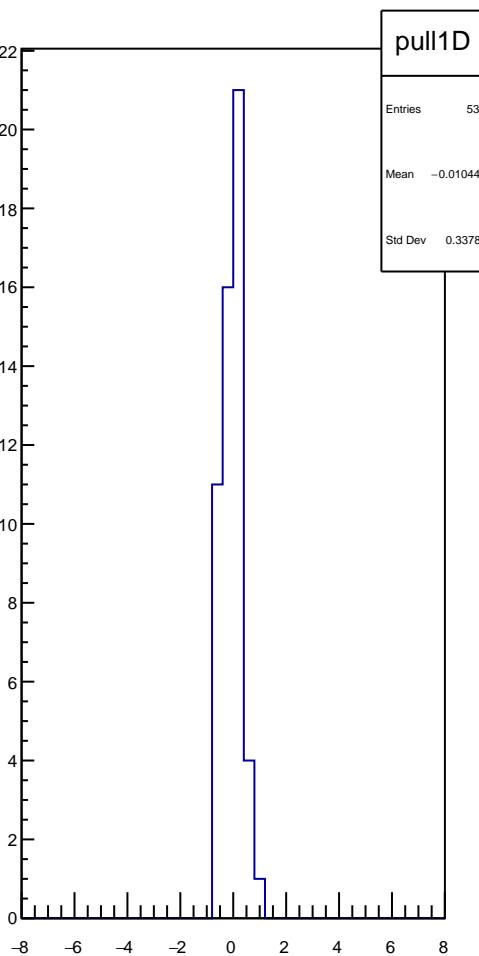
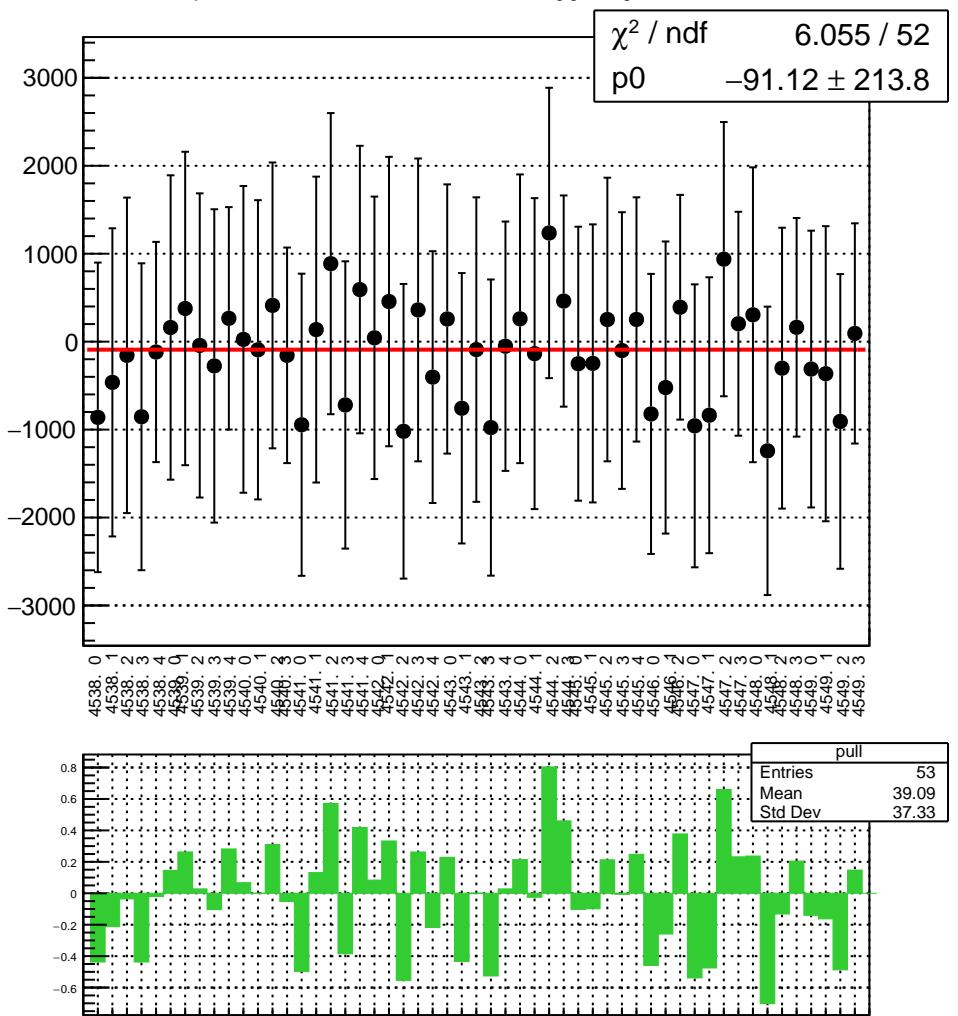
2117 / 52

p0

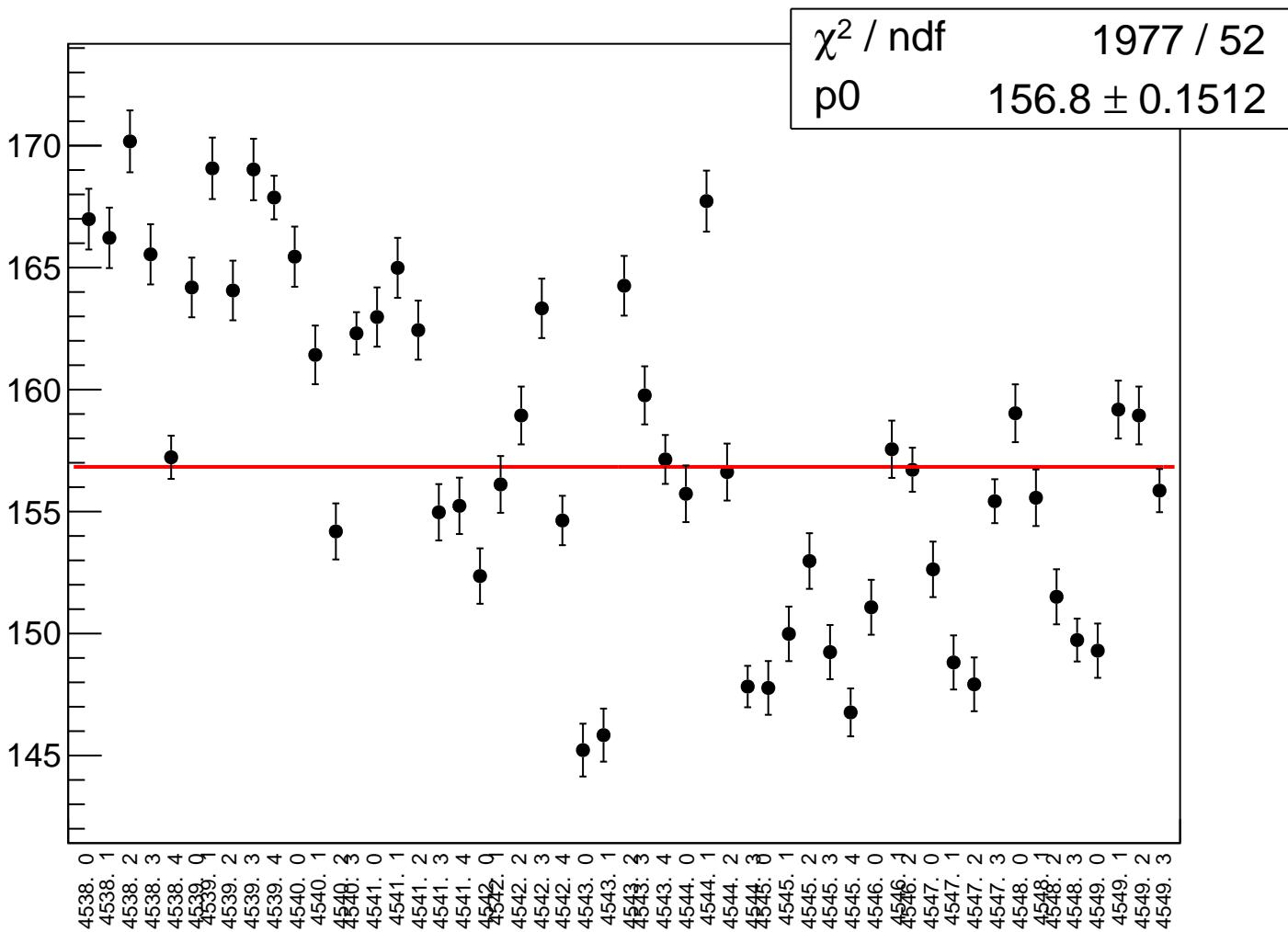
$19.12 \pm 0.01843$



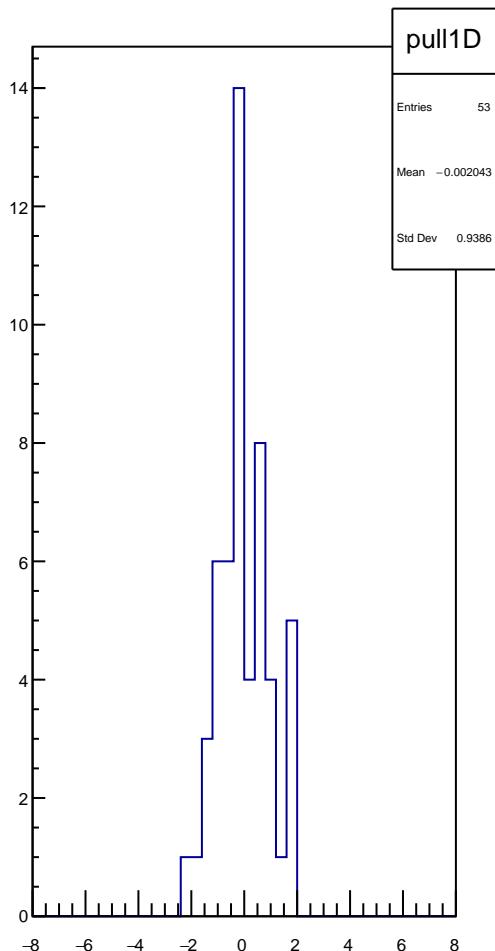
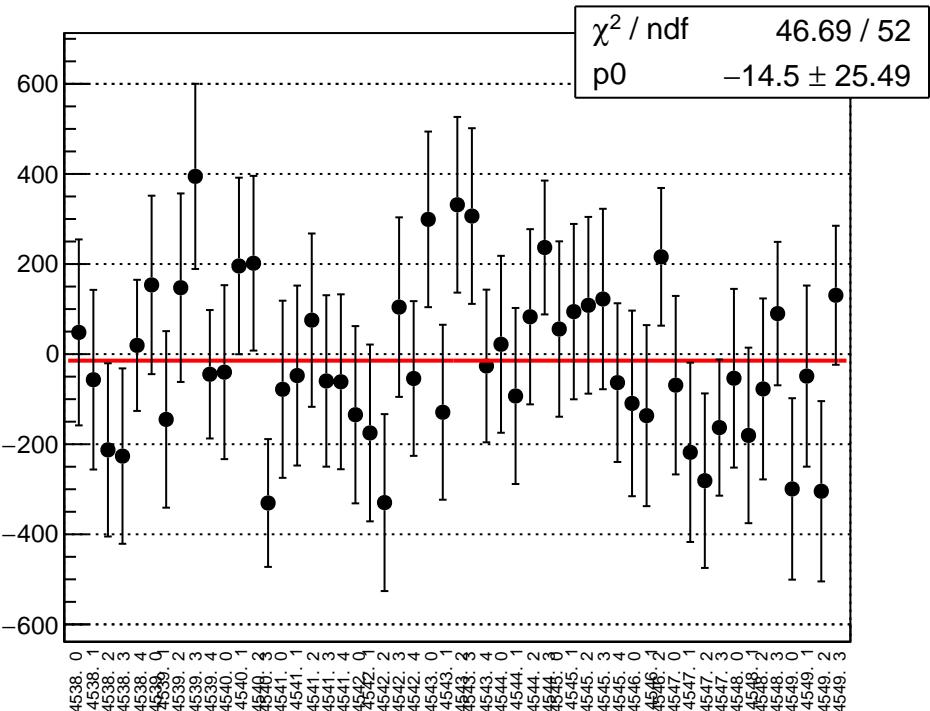
# asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_mean vs run



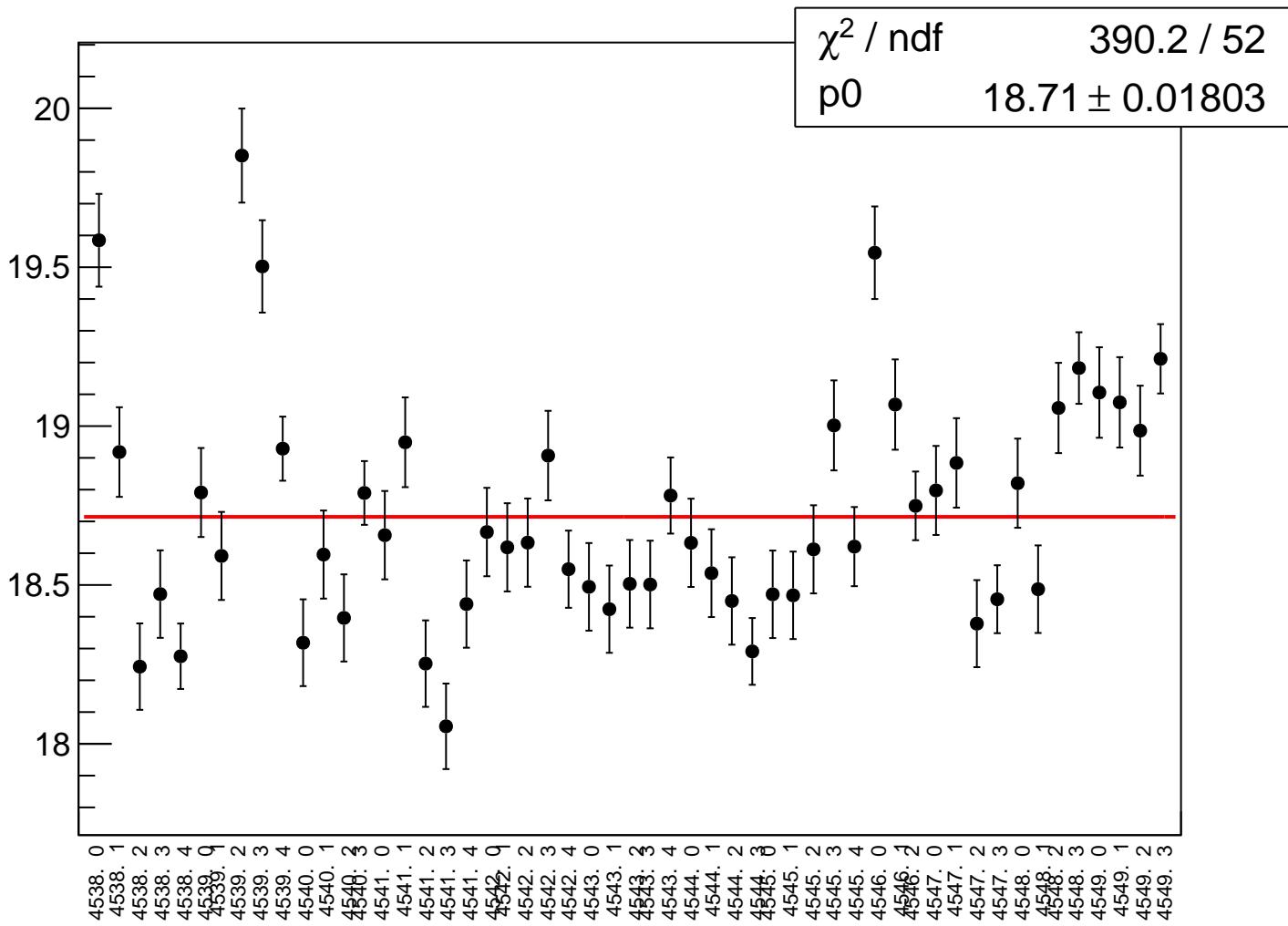
# asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_rms vs run



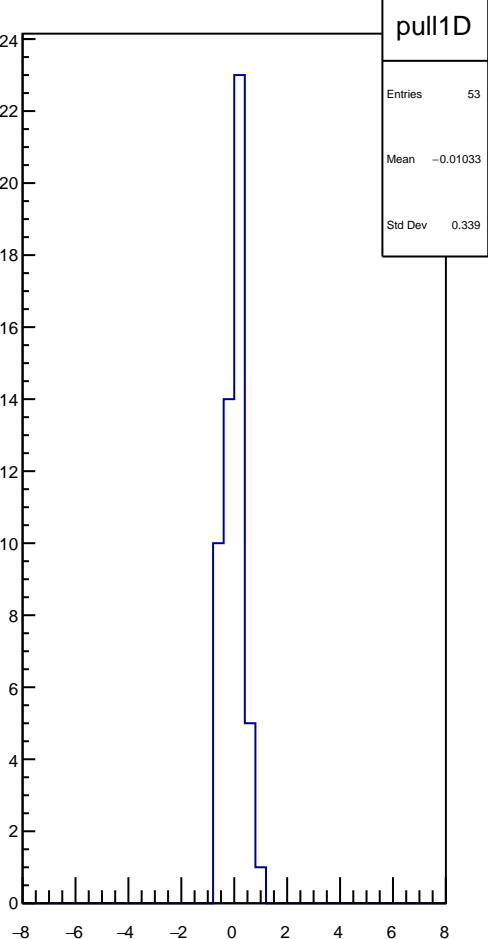
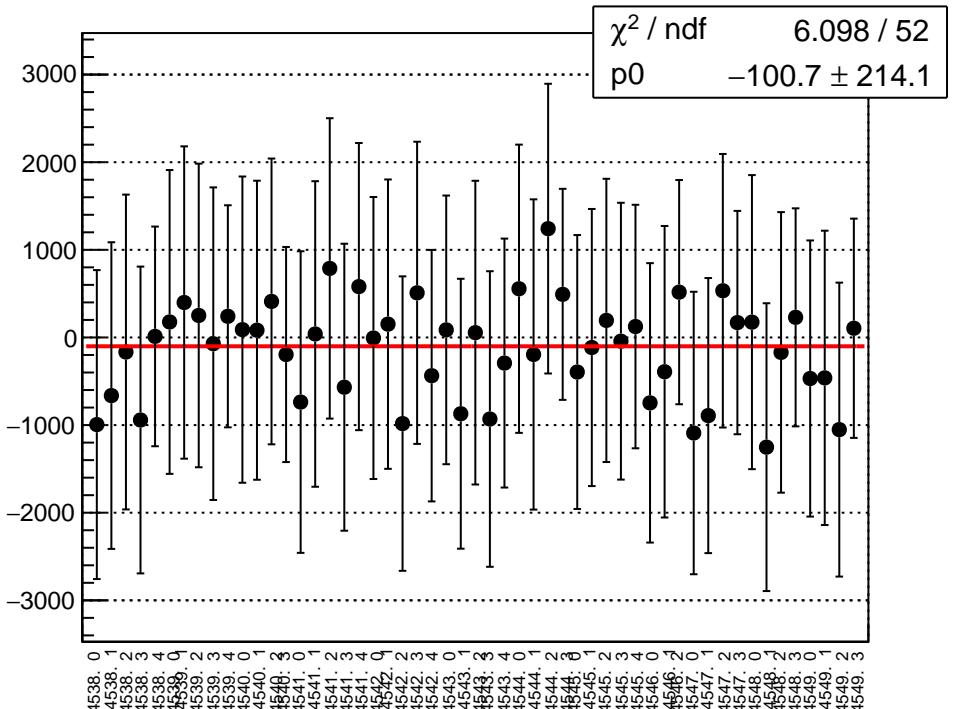
# asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_mean vs run



# asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_rms vs run



# asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_mean vs run



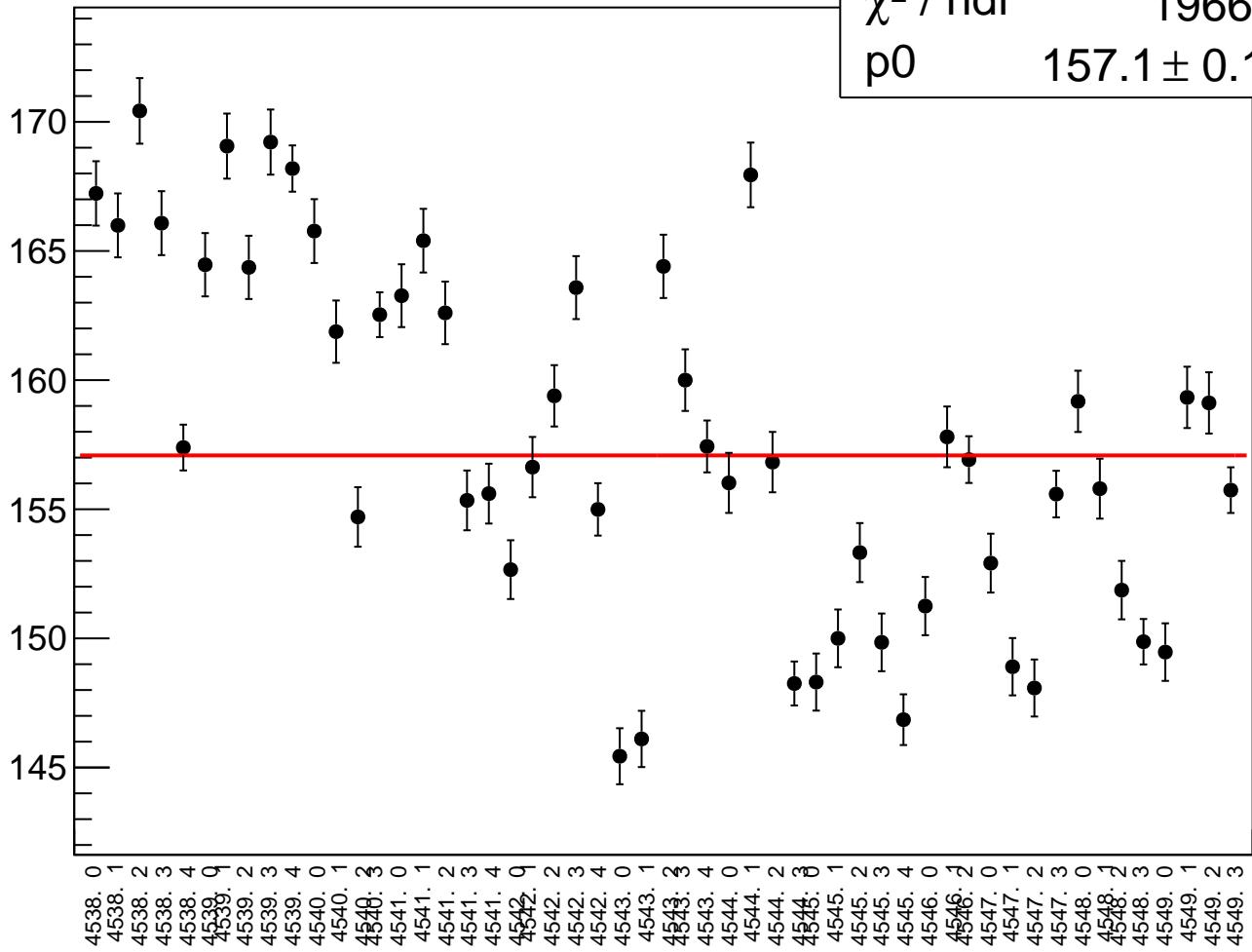
# asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_rms vs run

$\chi^2 / \text{ndf}$

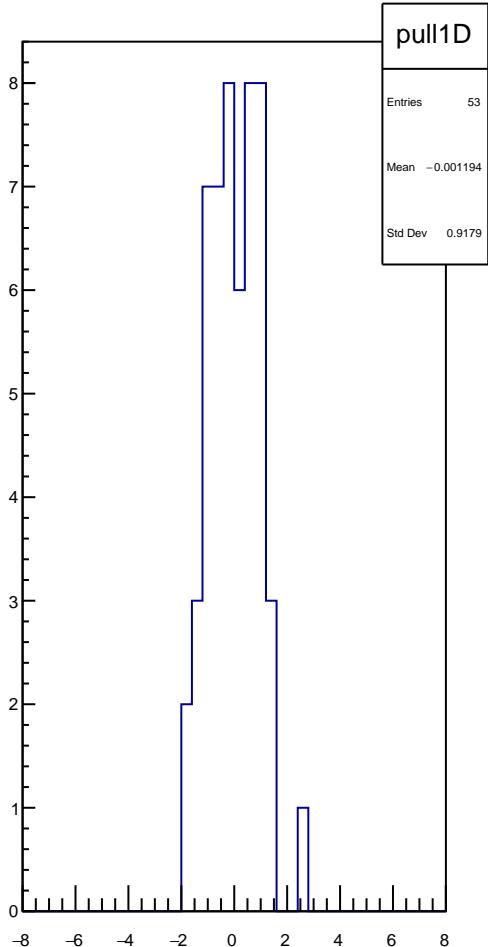
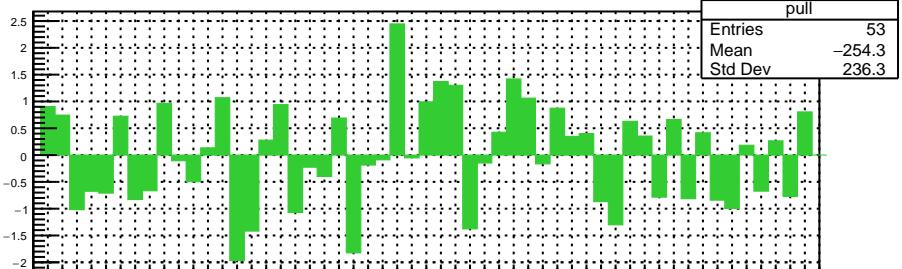
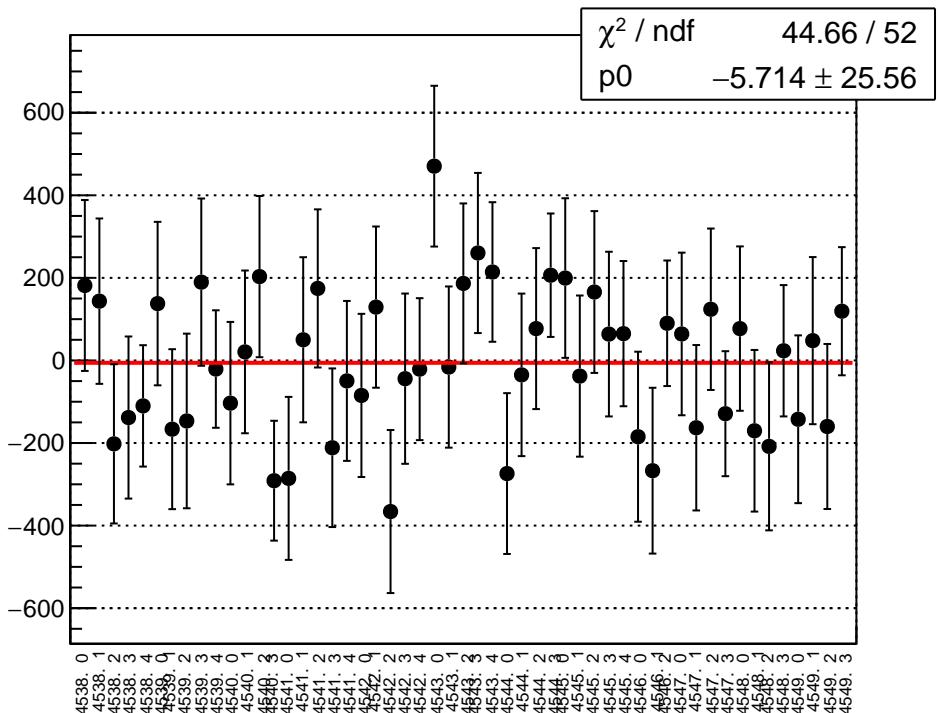
1966 / 52

p0

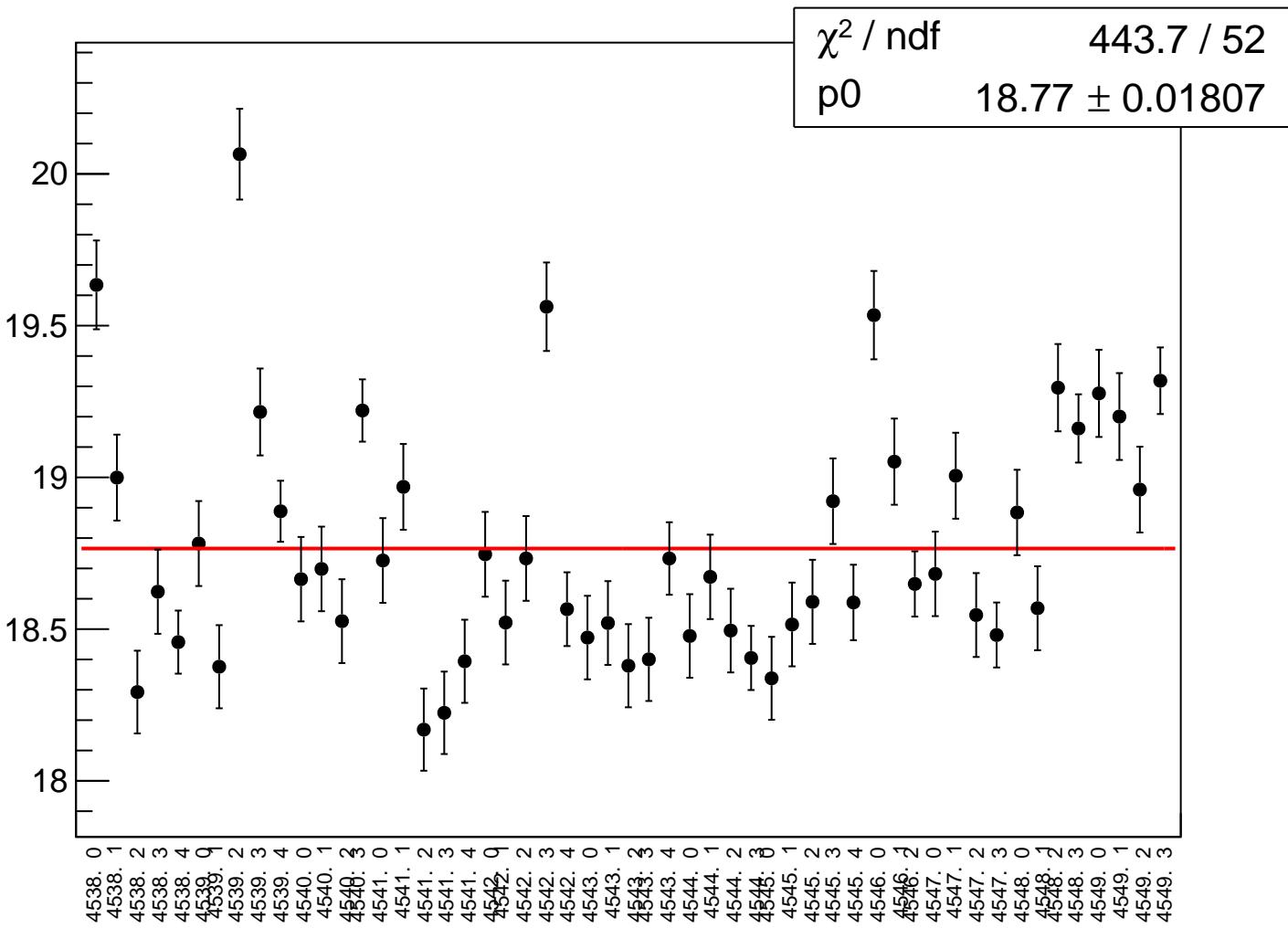
$157.1 \pm 0.1514$



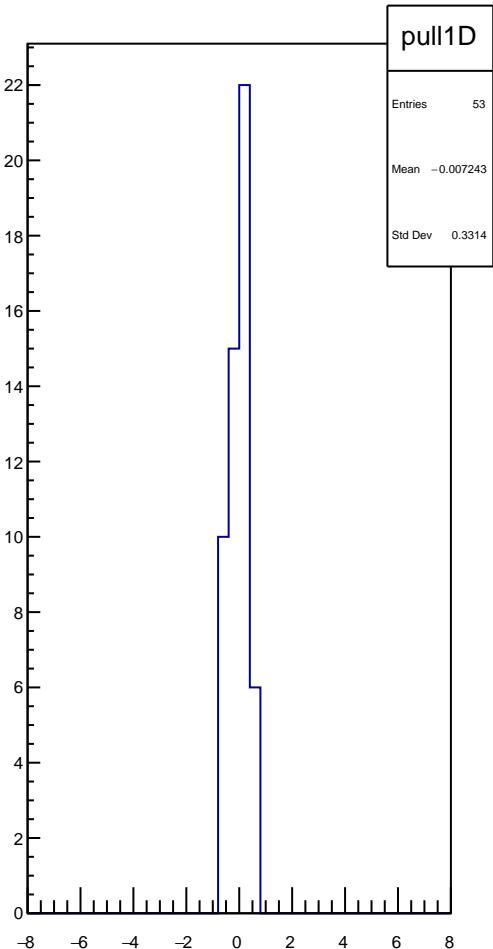
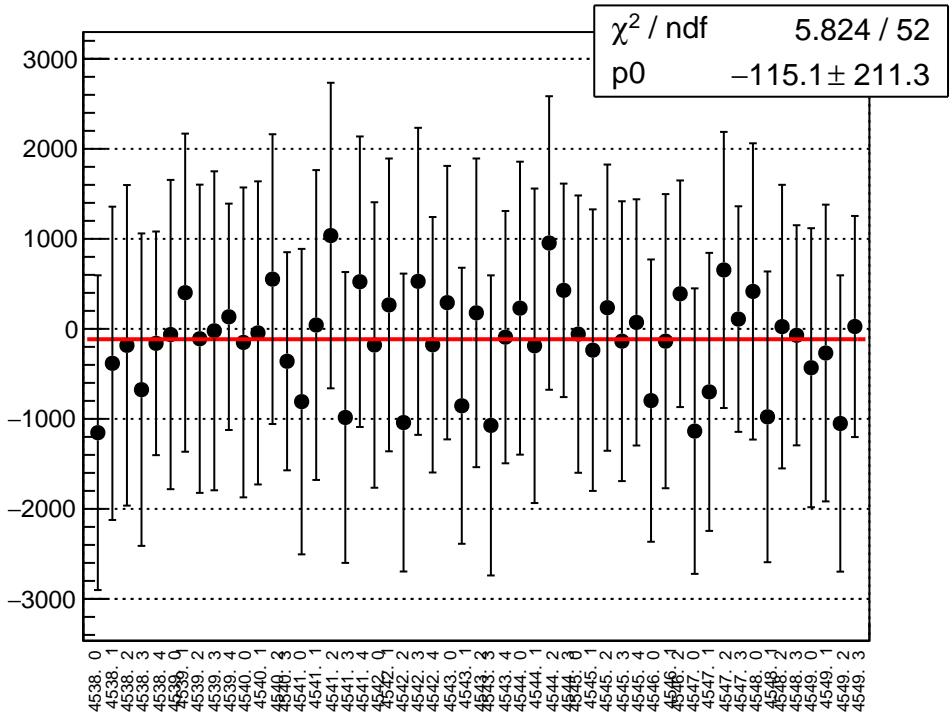
# asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_mean vs run



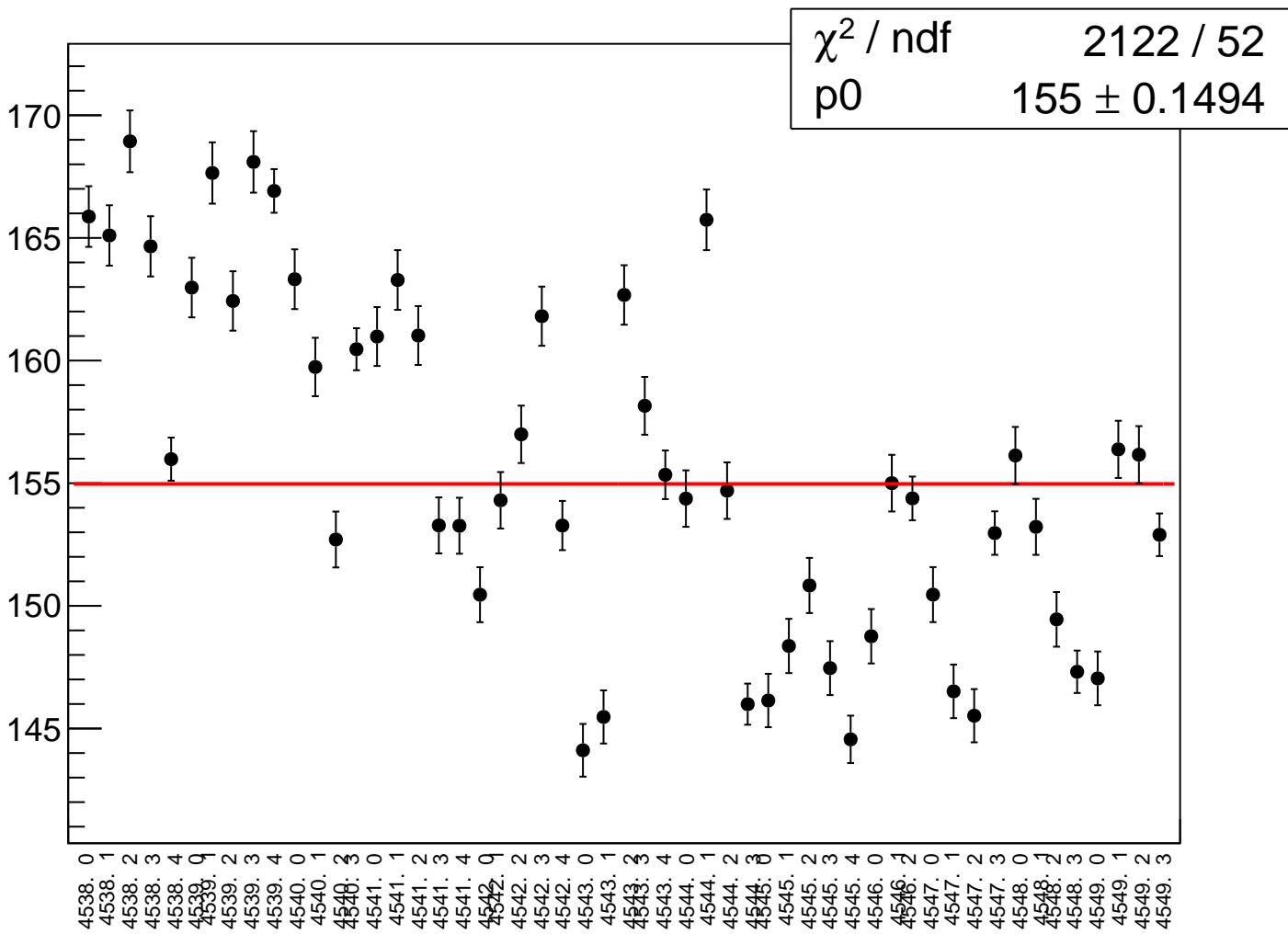
# asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_rms vs run



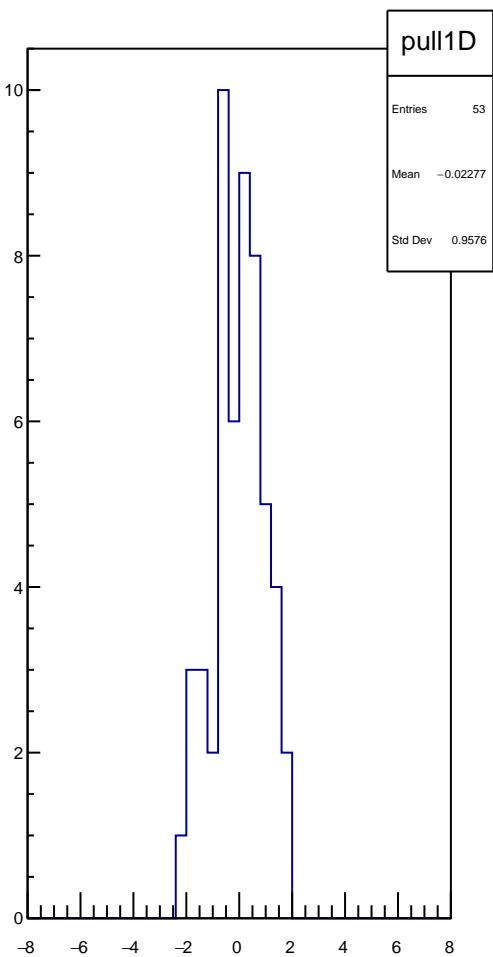
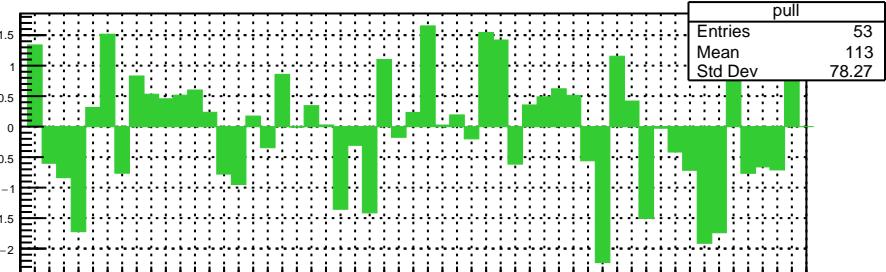
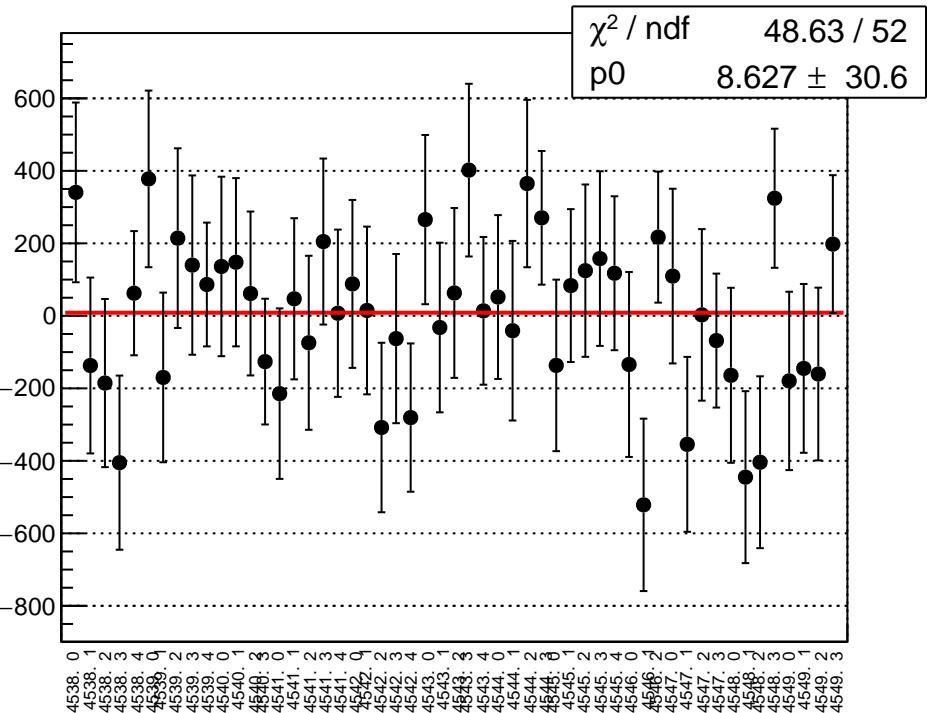
# asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_mean vs run



# asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_rms vs run



# asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_mean vs run



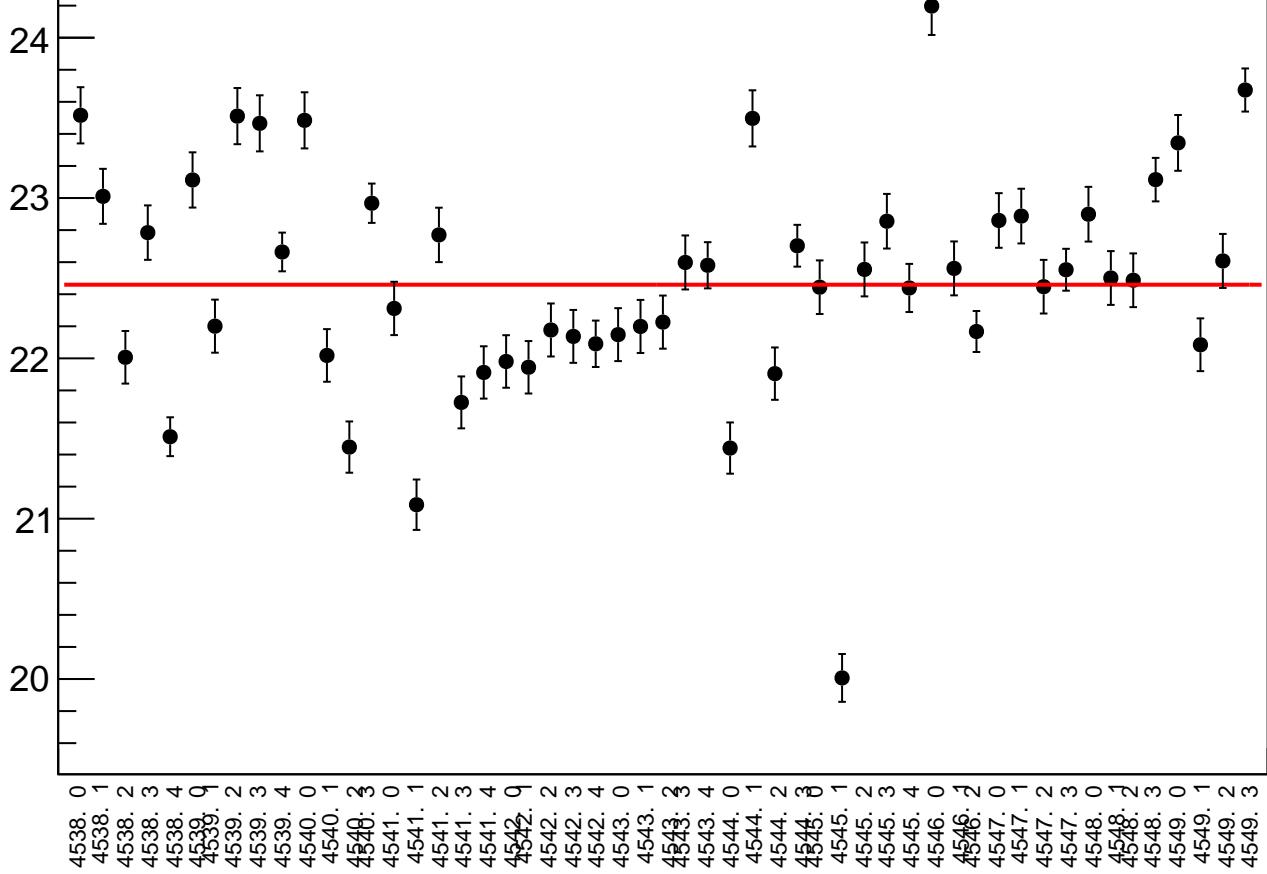
# asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_rms vs run

$\chi^2 / \text{ndf}$

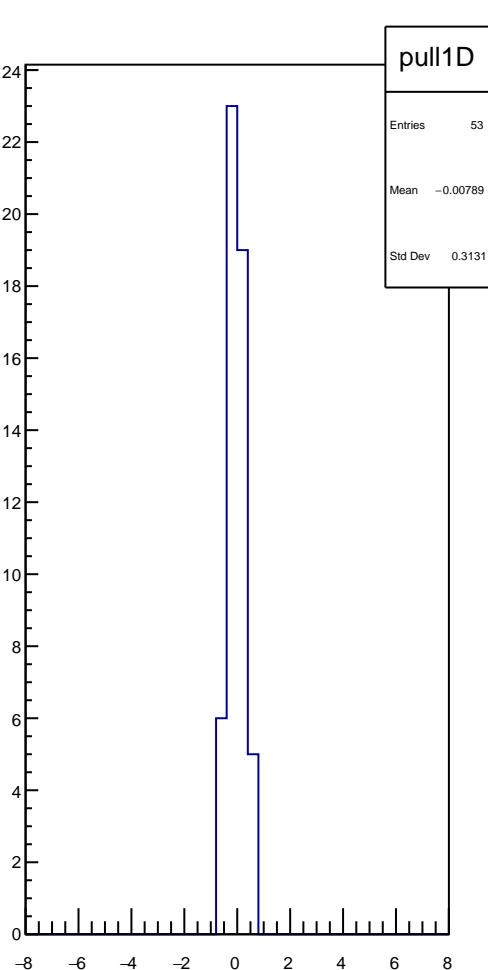
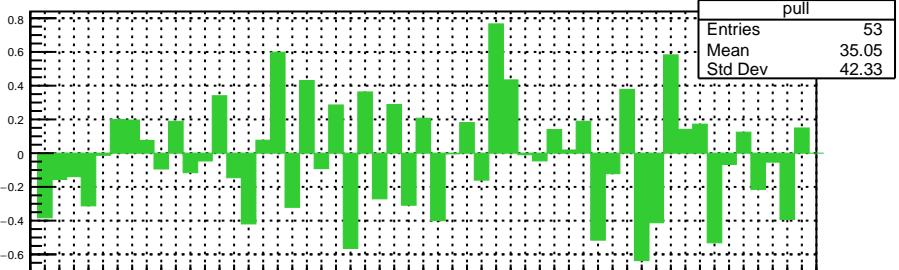
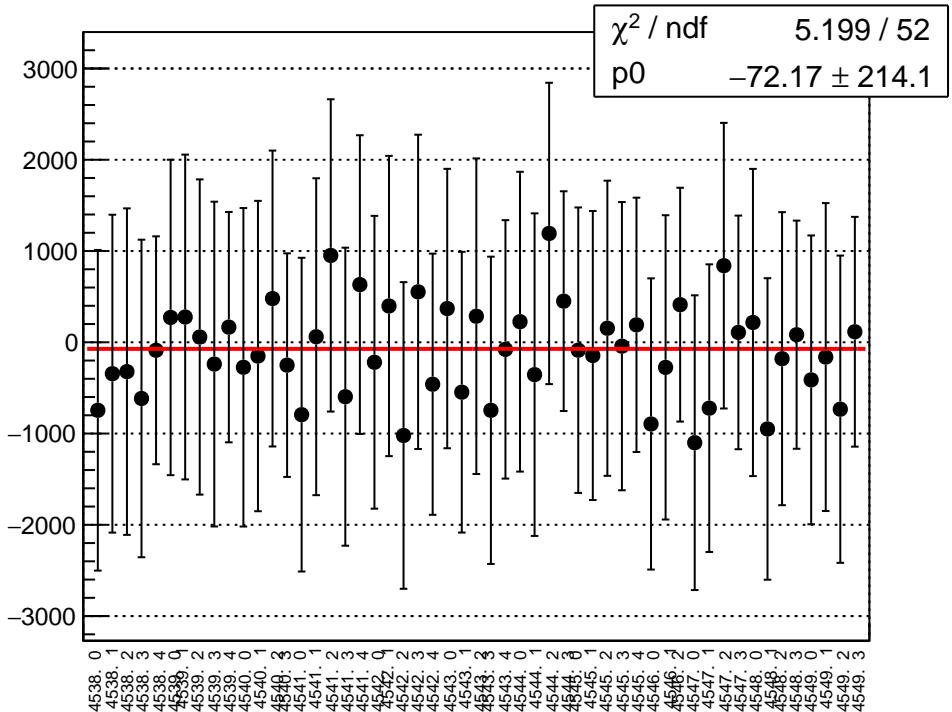
1081 / 52

p0

$22.46 \pm 0.02164$



# asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_mean vs run



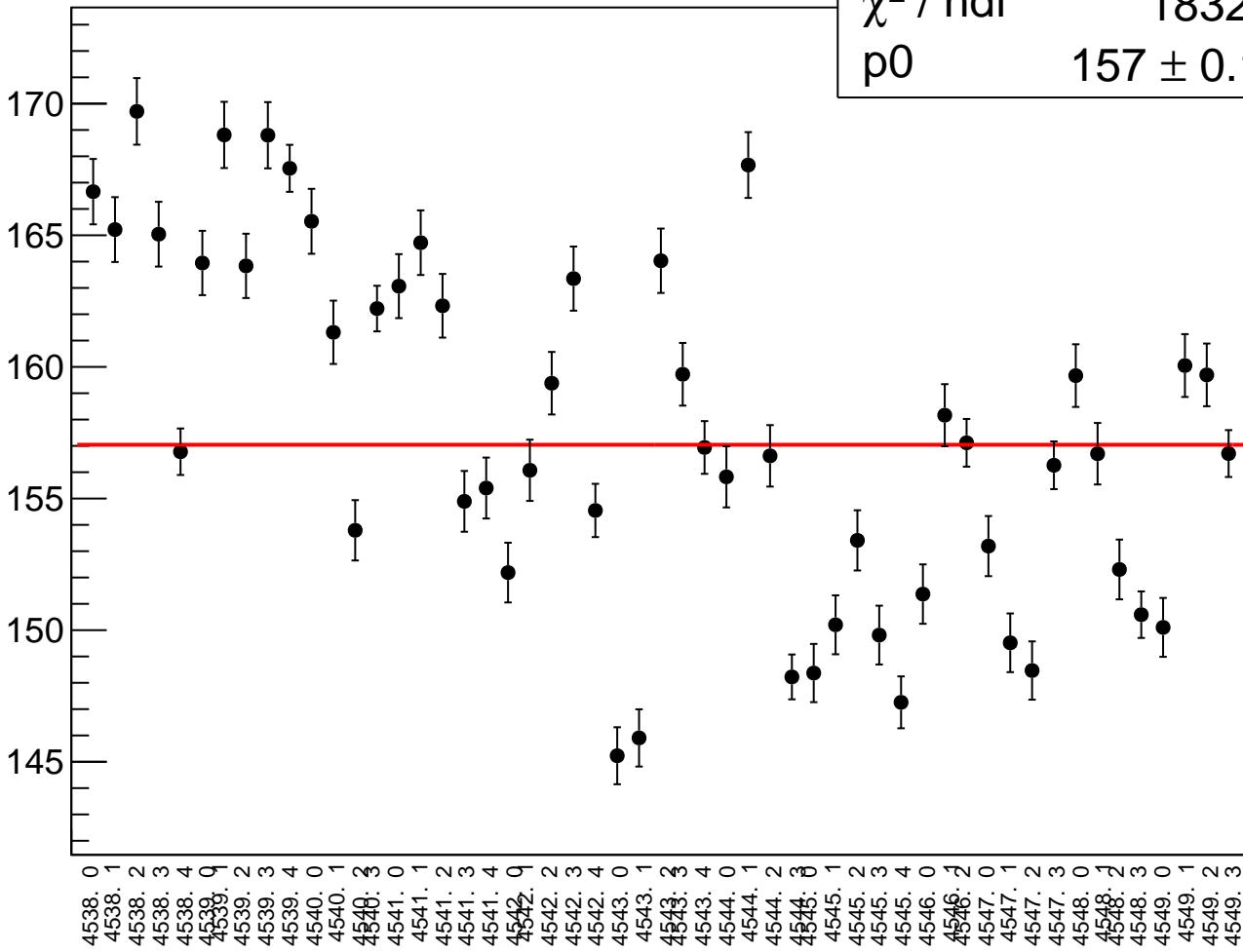
# asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs run

$\chi^2 / \text{ndf}$

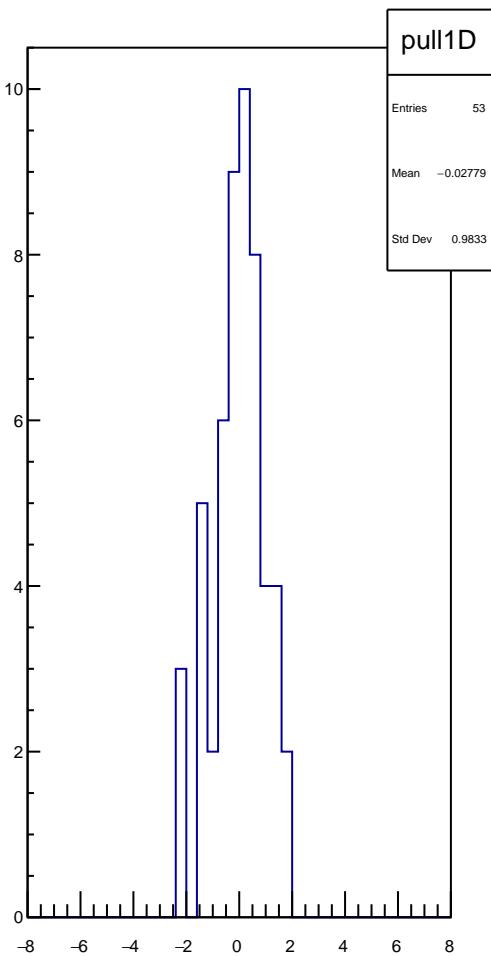
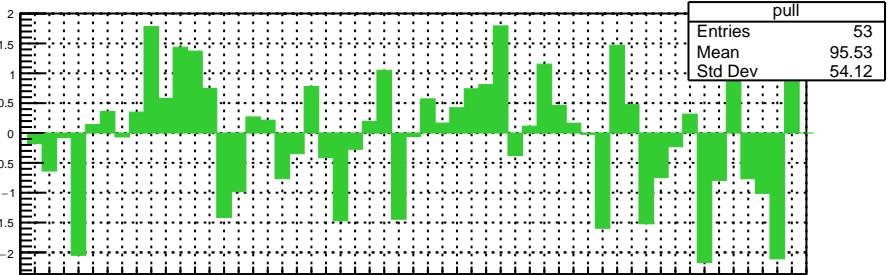
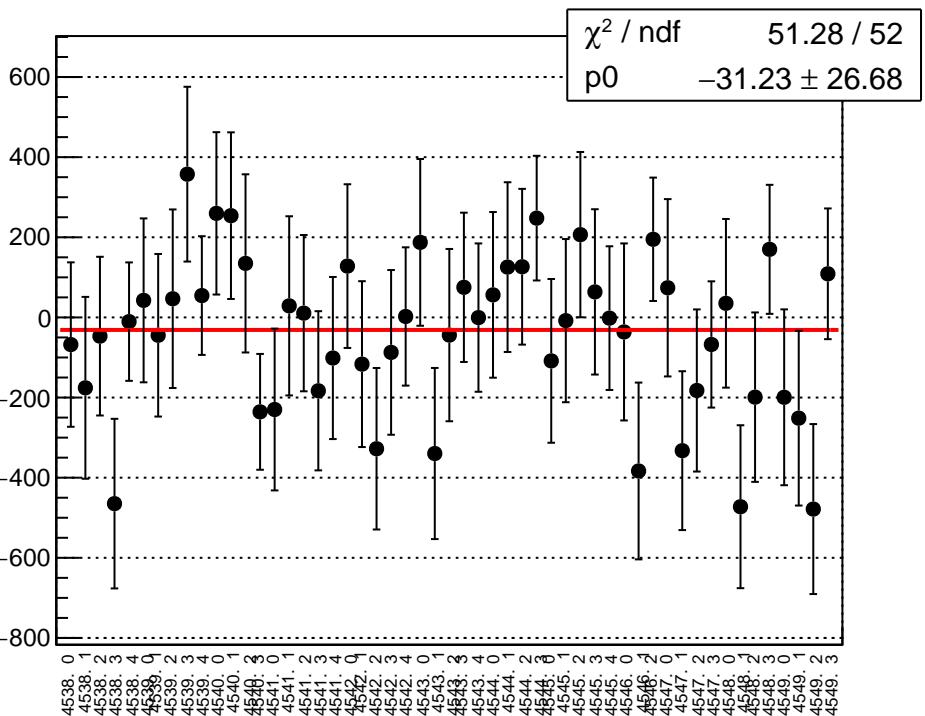
1832 / 52

p0

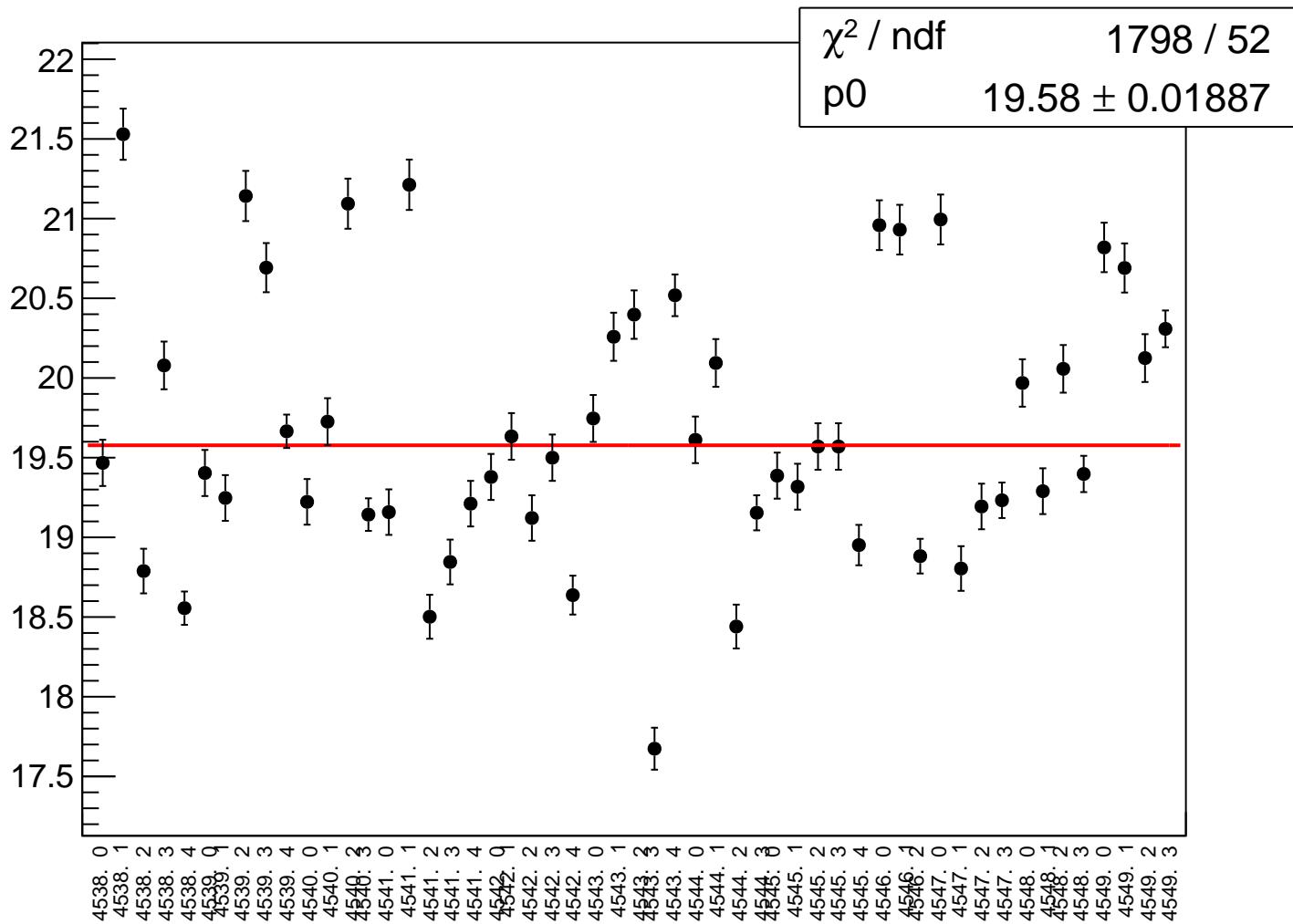
$157 \pm 0.1514$



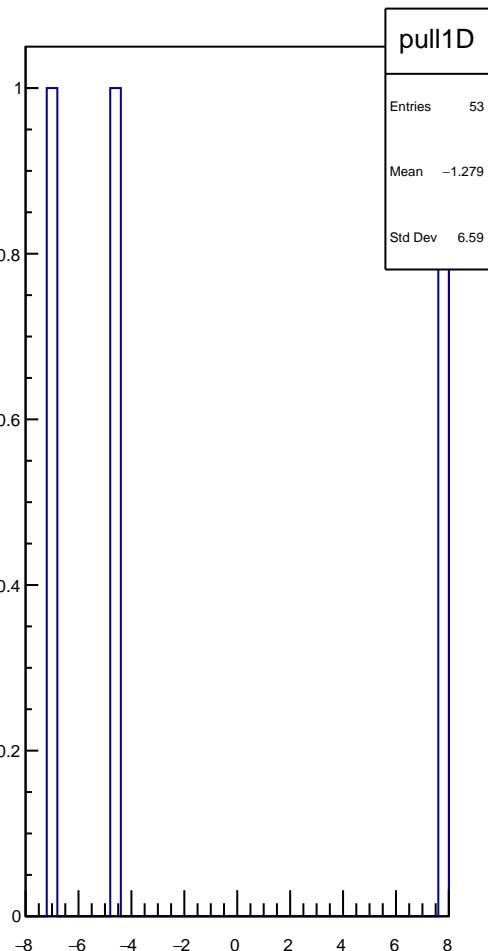
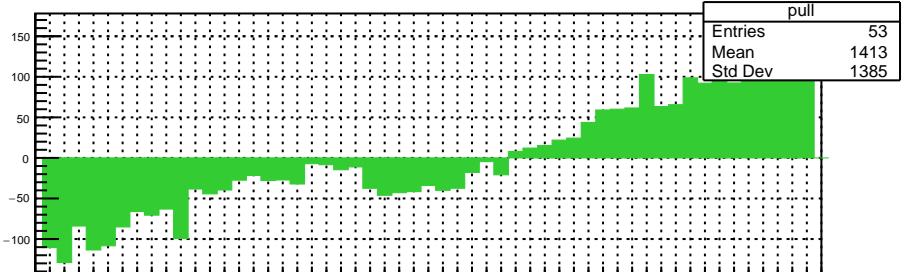
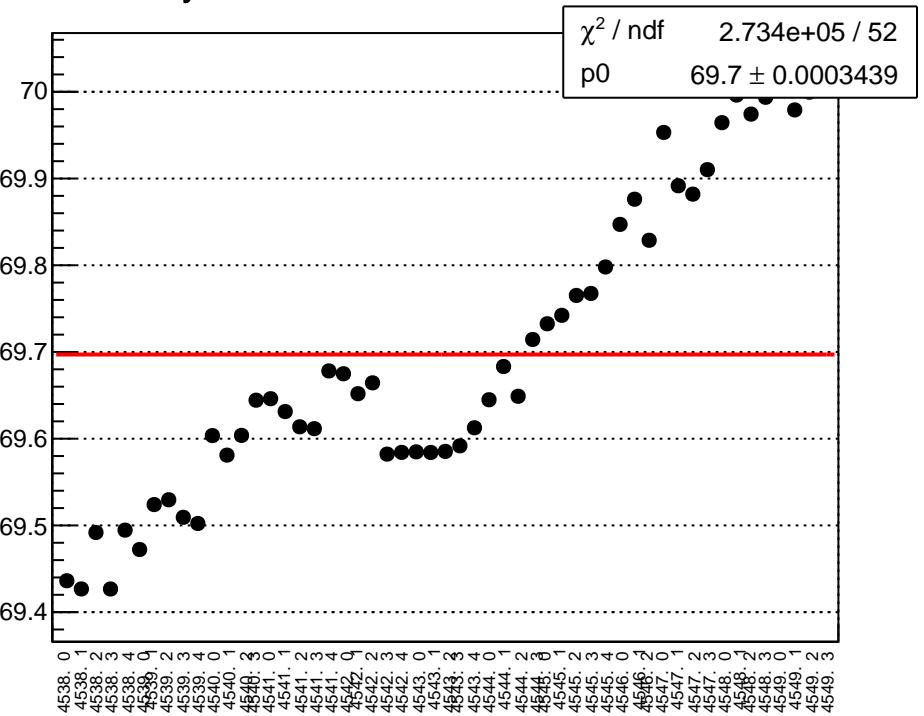
# asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_mean vs run



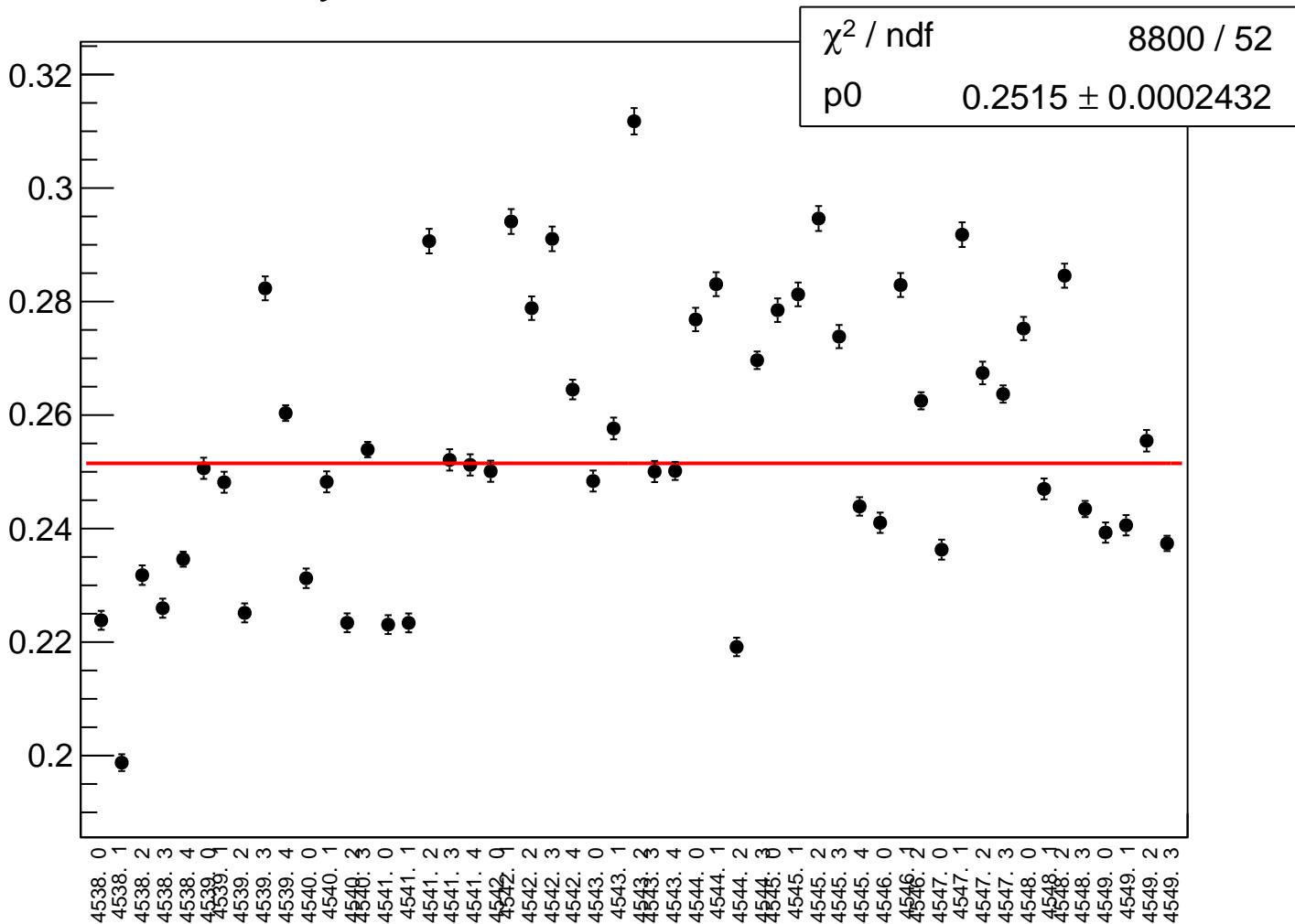
# asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_rms vs run



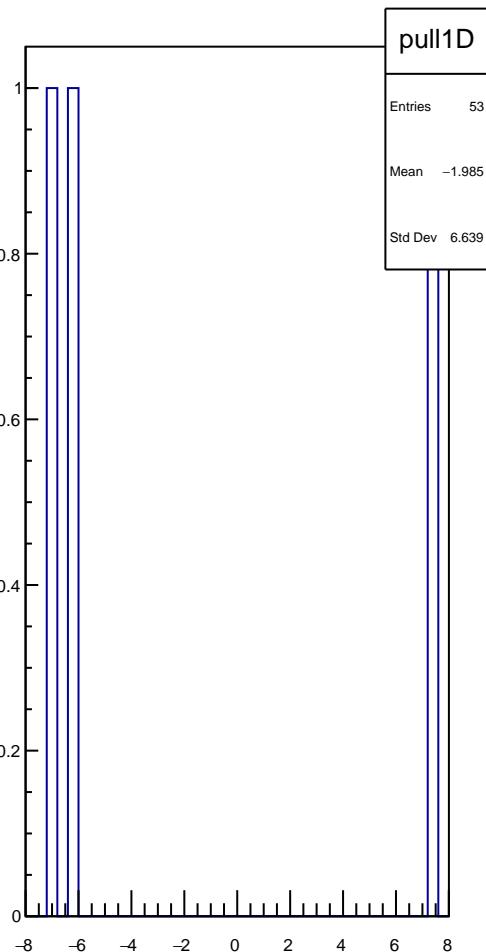
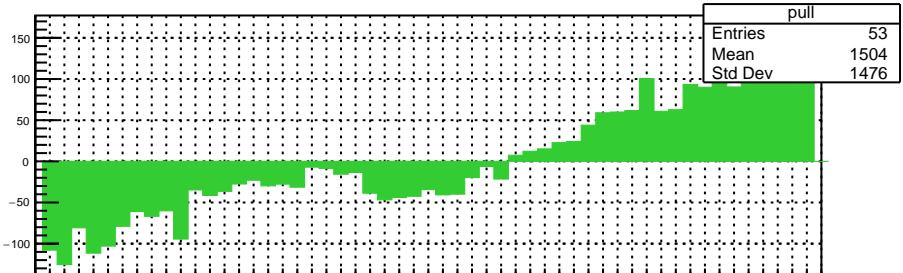
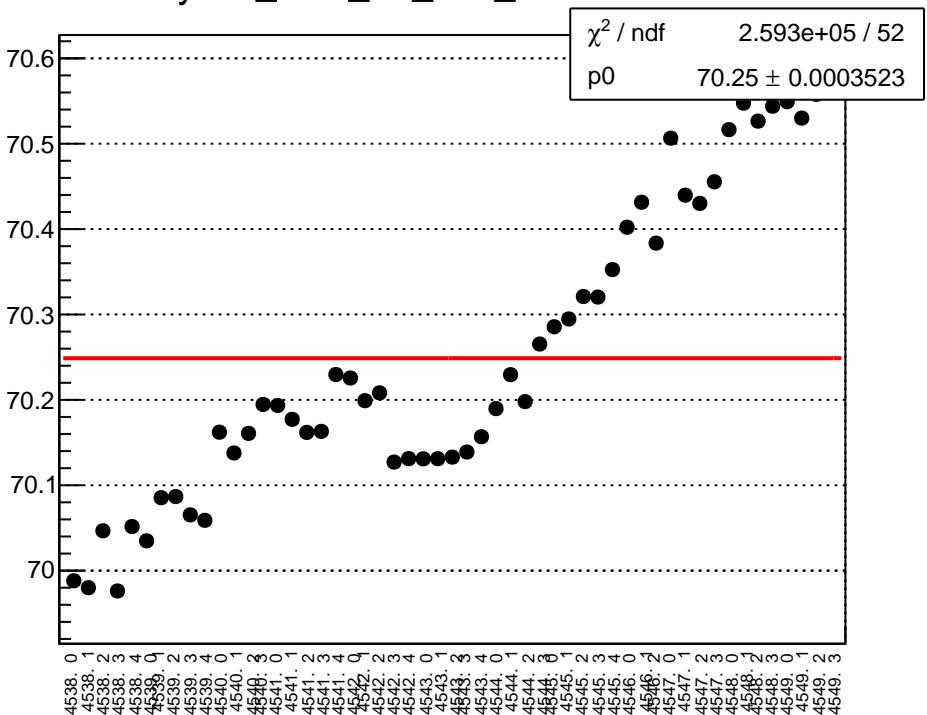
# yield\_bcm\_an\_ds\_mean vs run



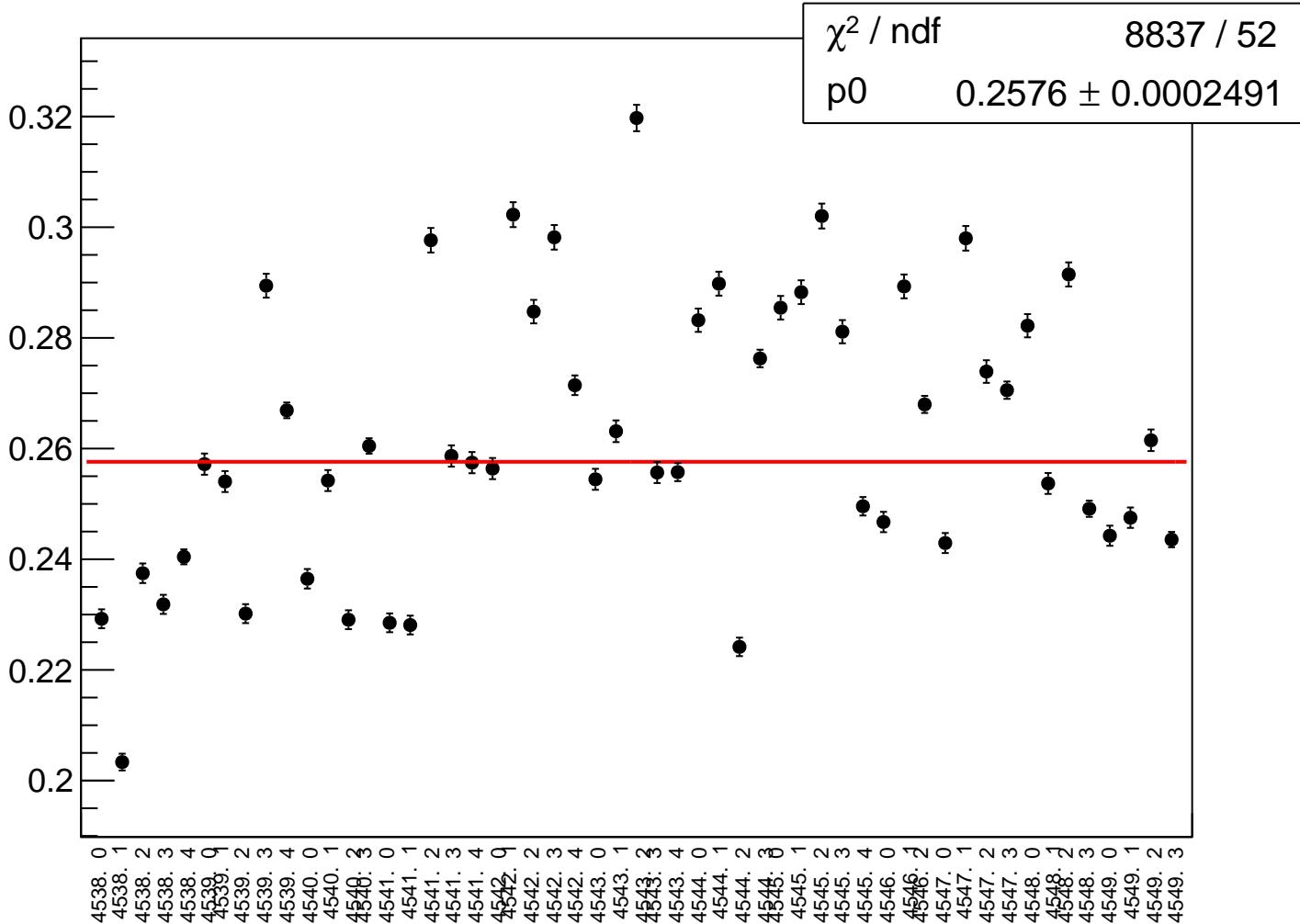
# yield\_bcm\_an\_ds\_rms vs run



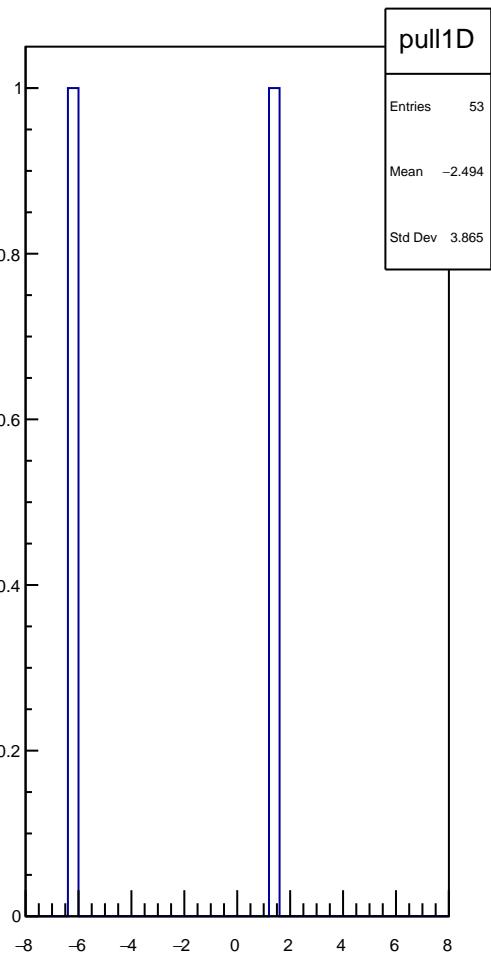
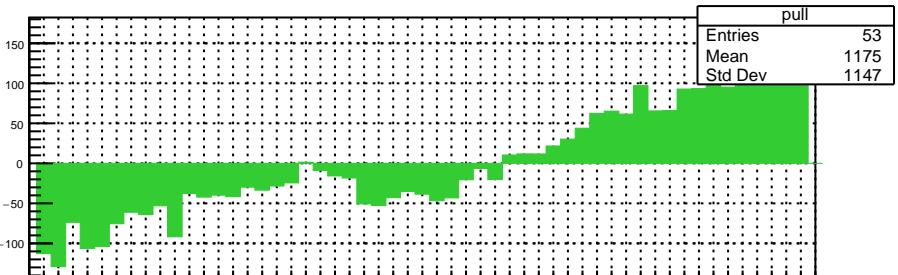
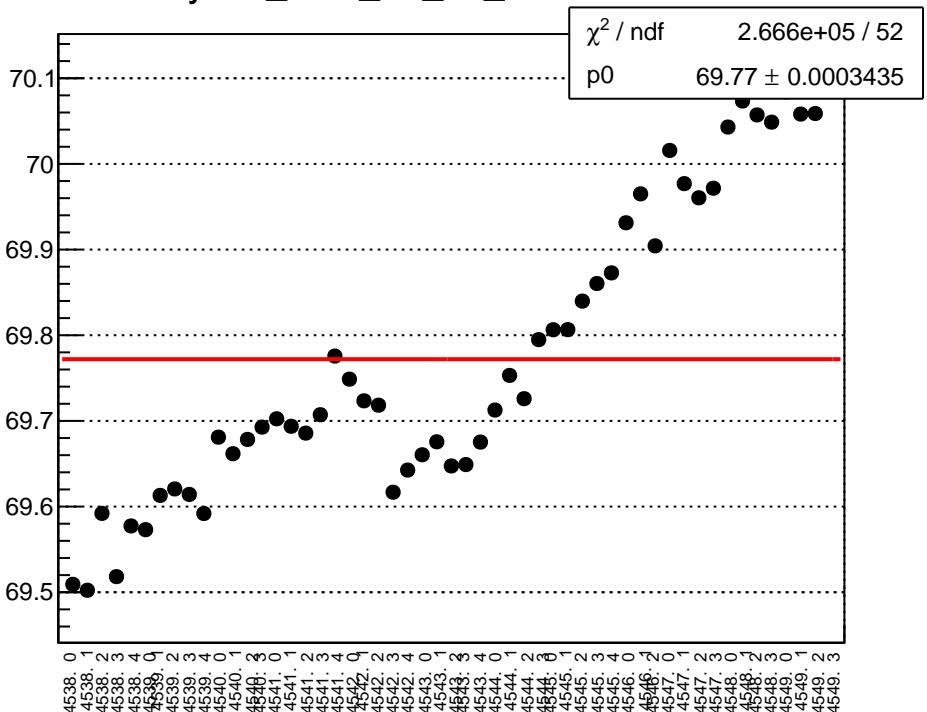
# yield\_bcm\_an\_ds3\_mean vs run



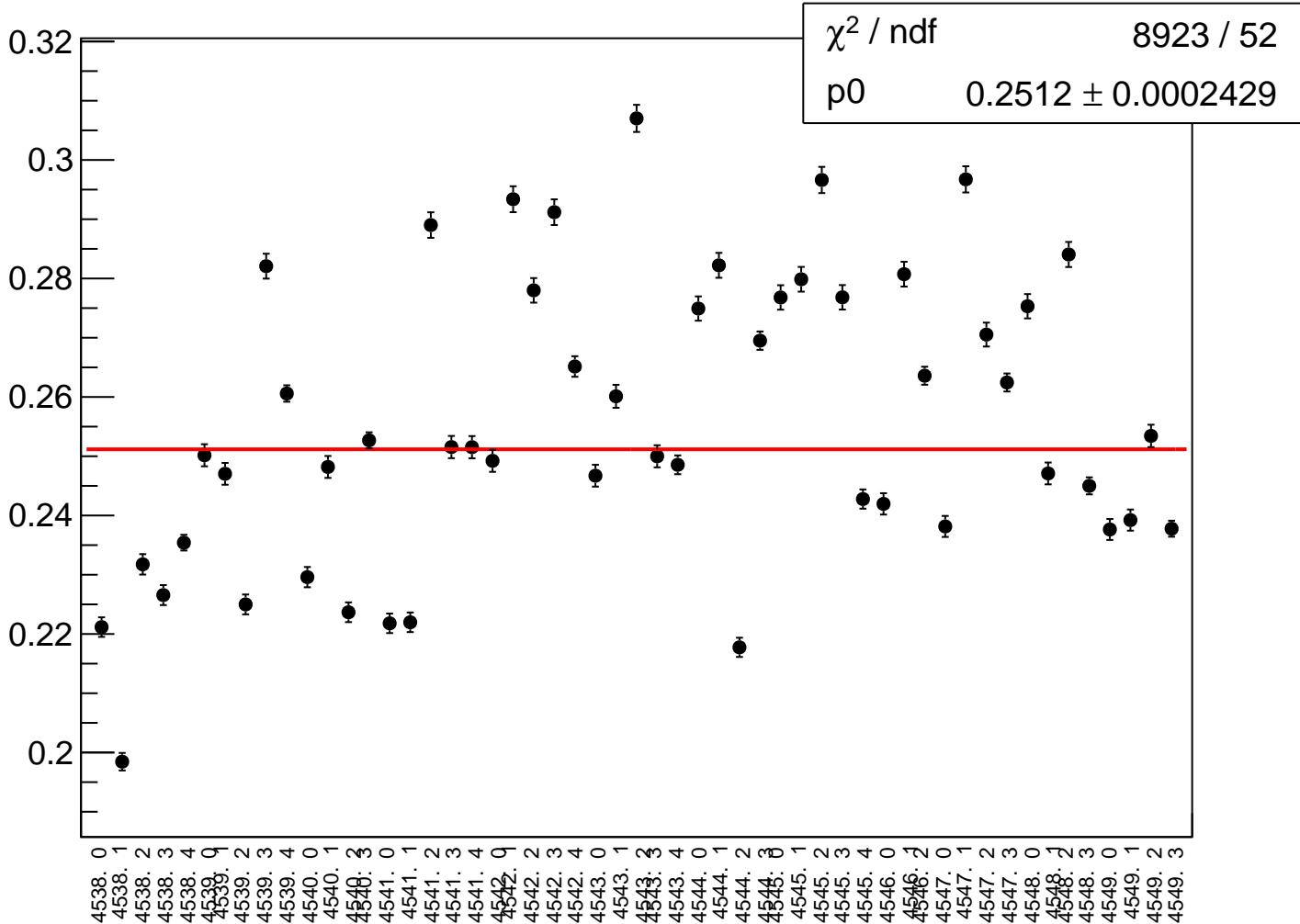
# yield\_bcm\_an\_ds3\_rms vs run



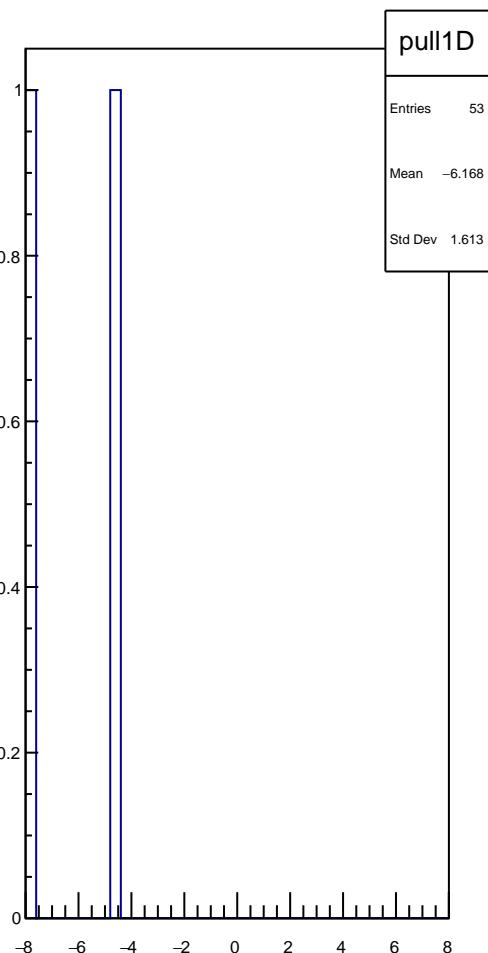
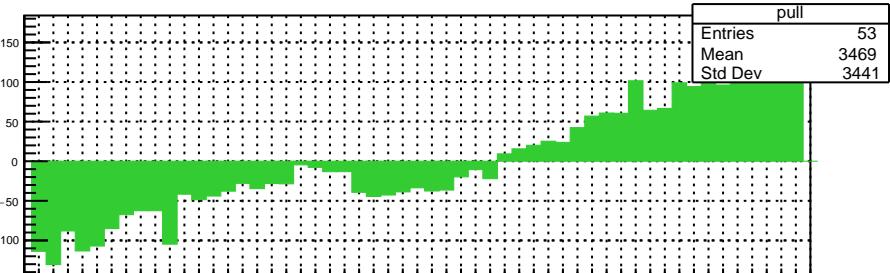
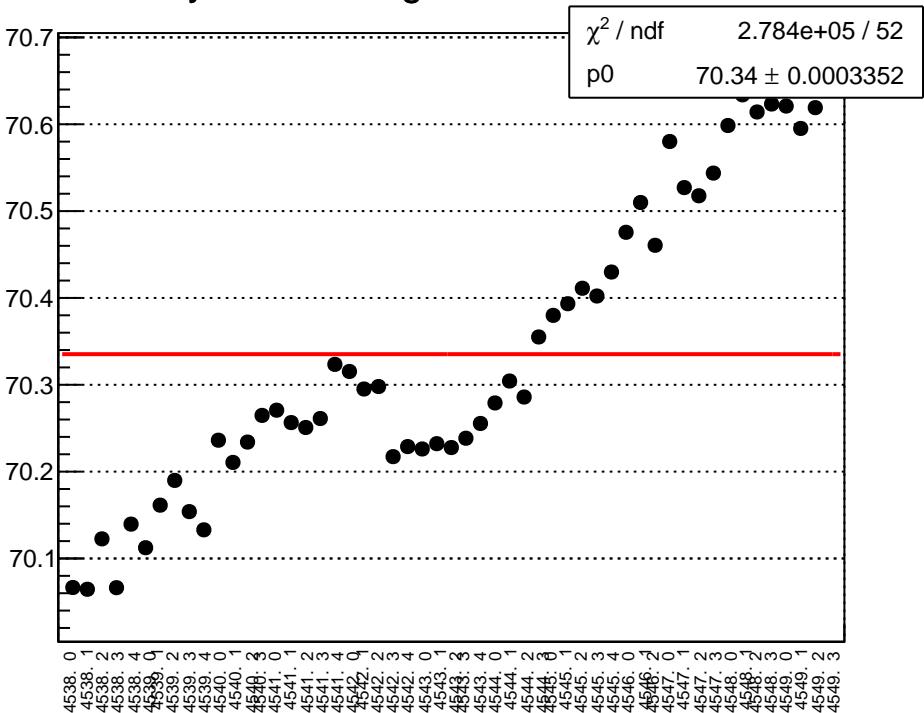
# yield\_bcm\_an\_us\_mean vs run



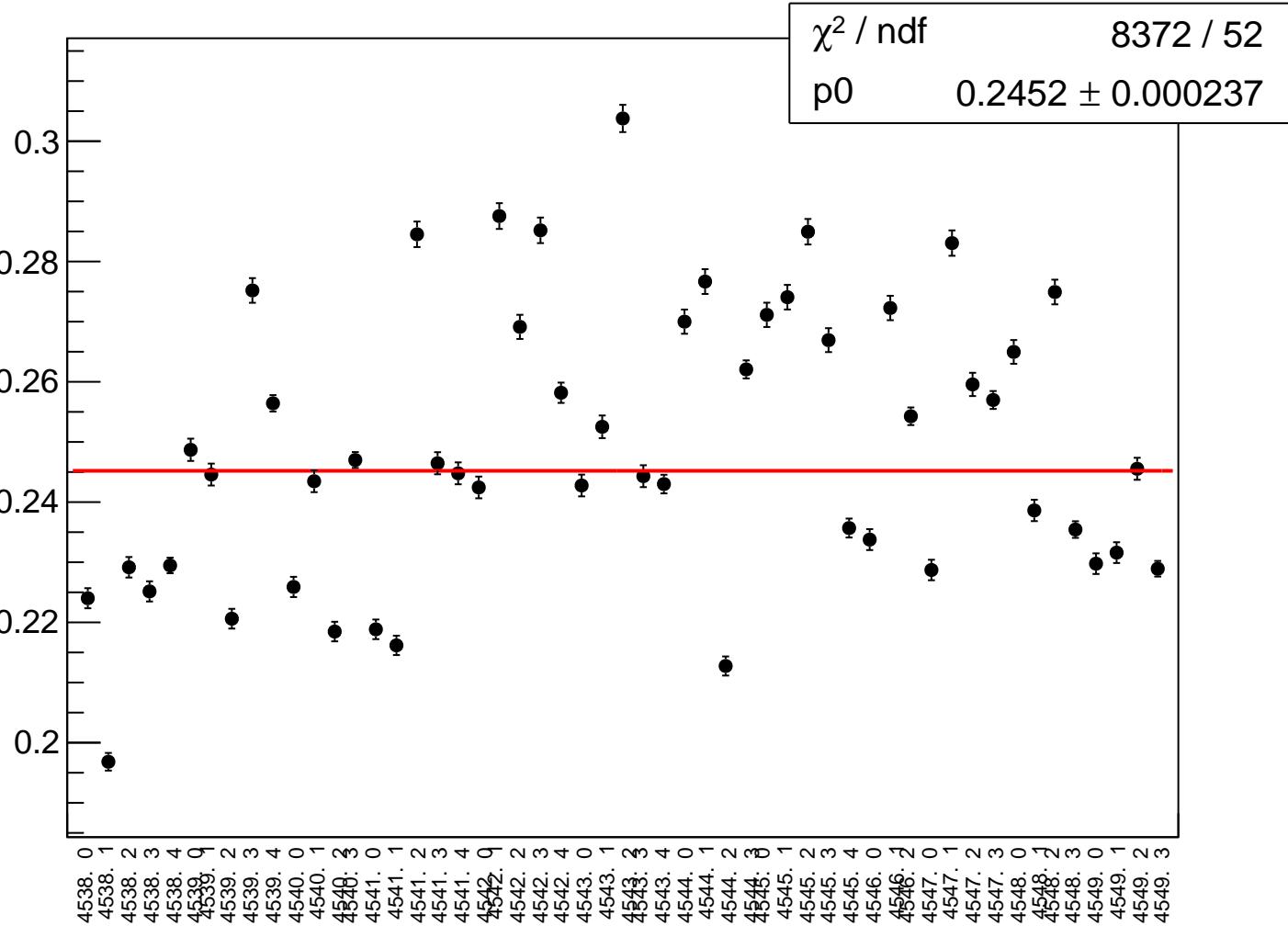
# yield\_bcm\_an\_us\_rms vs run



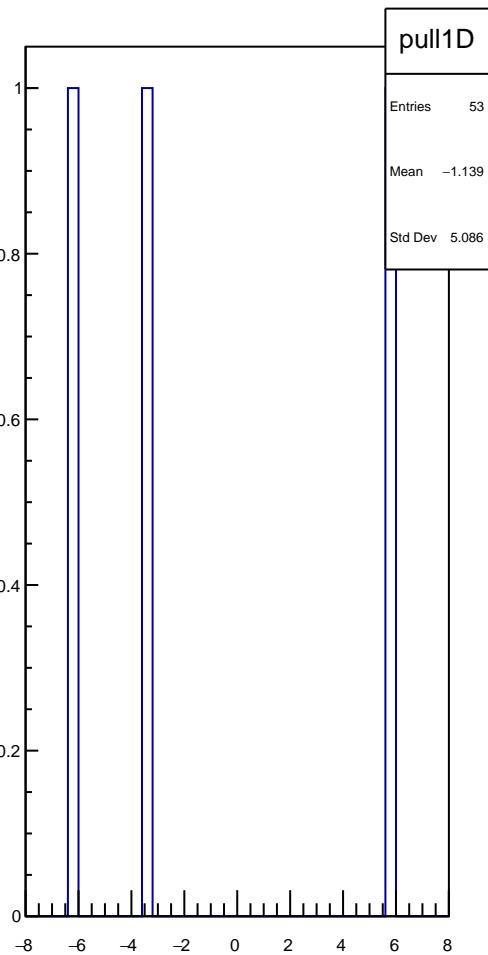
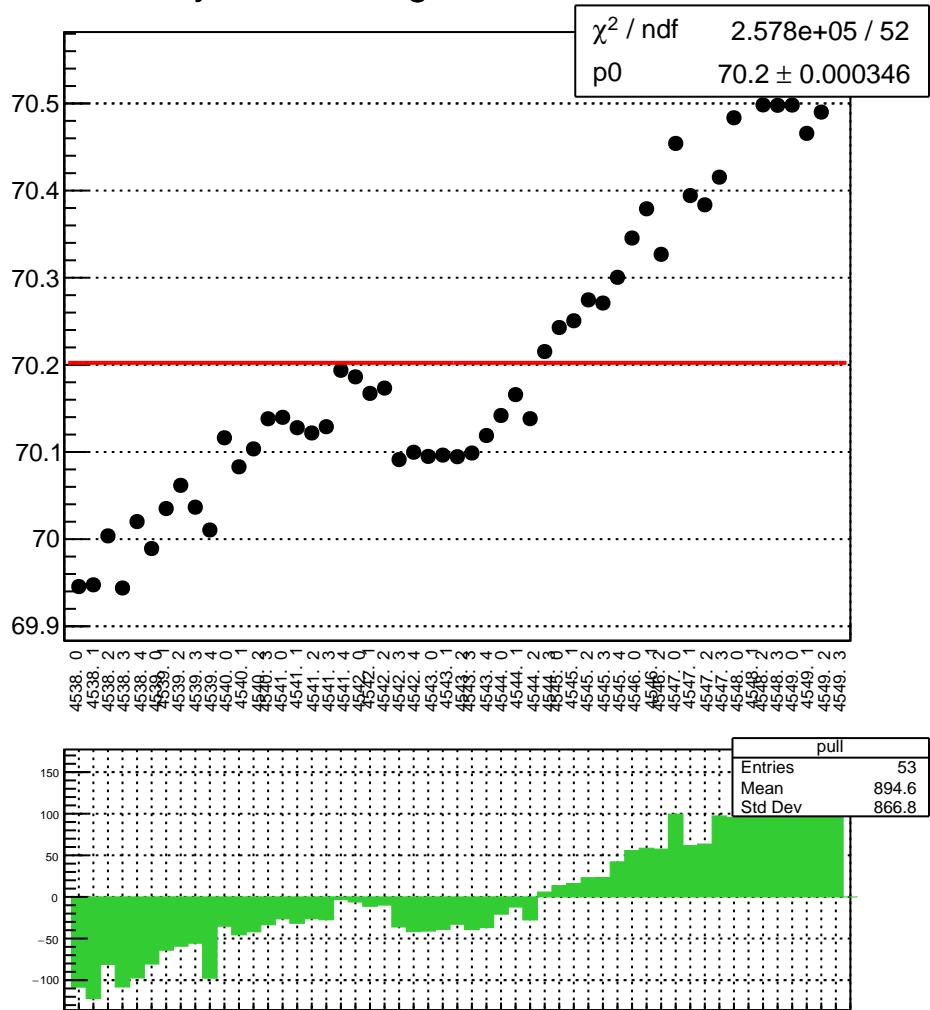
# yield\_bcm\_dg\_us\_mean vs run



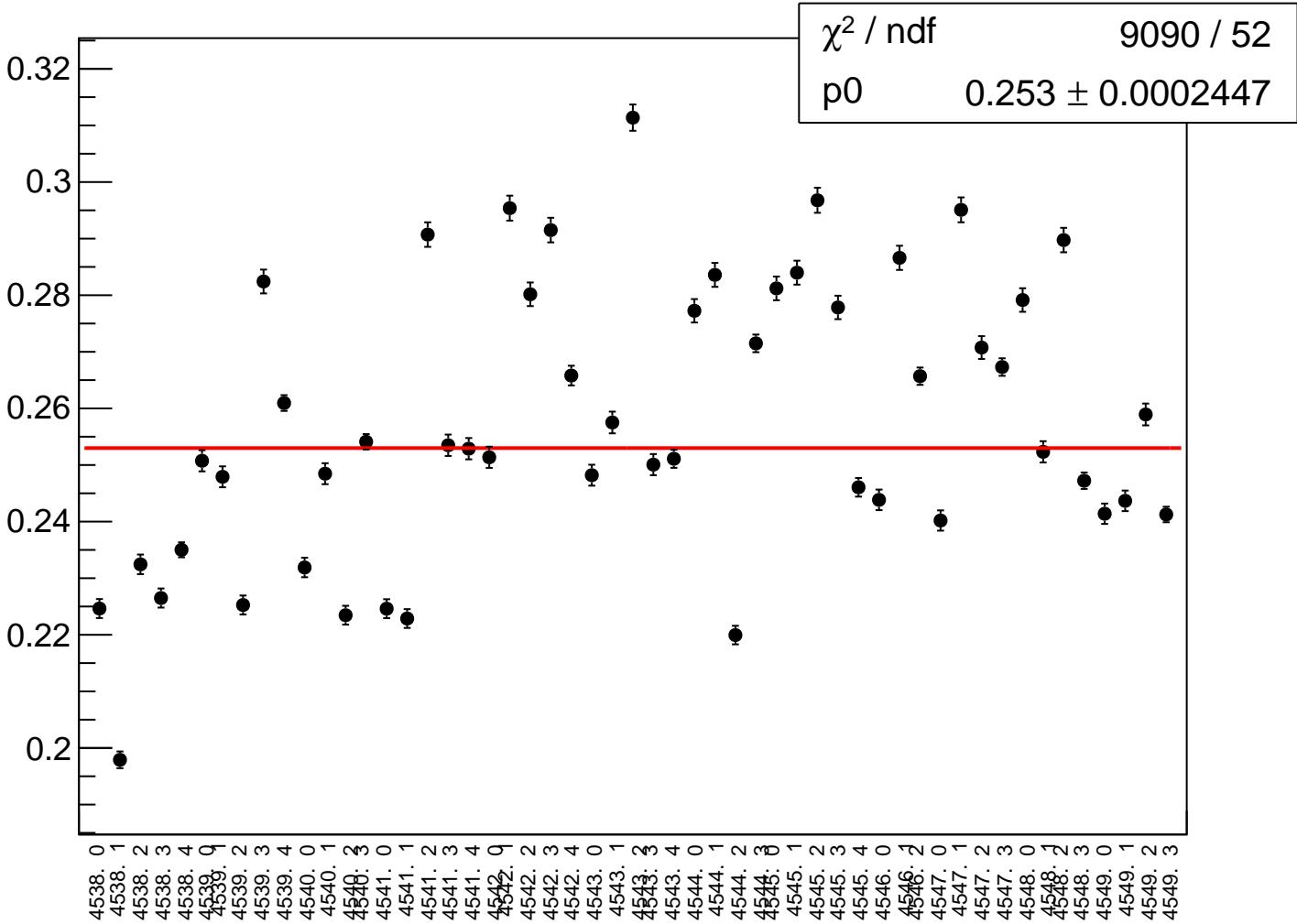
# yield\_bcm\_dg\_us\_rms vs run



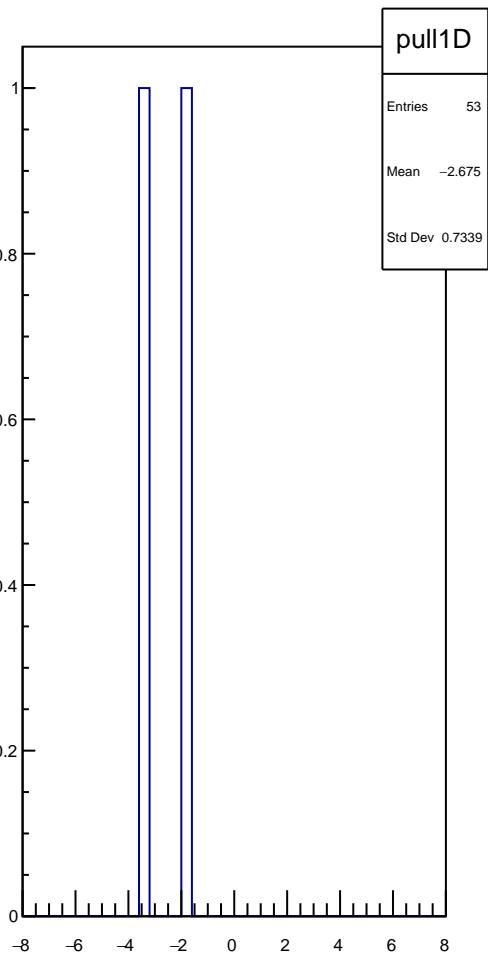
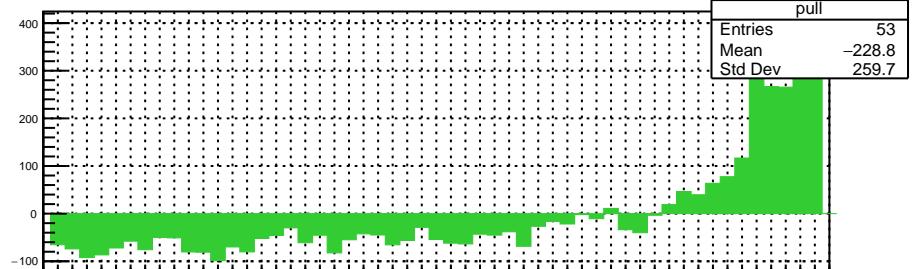
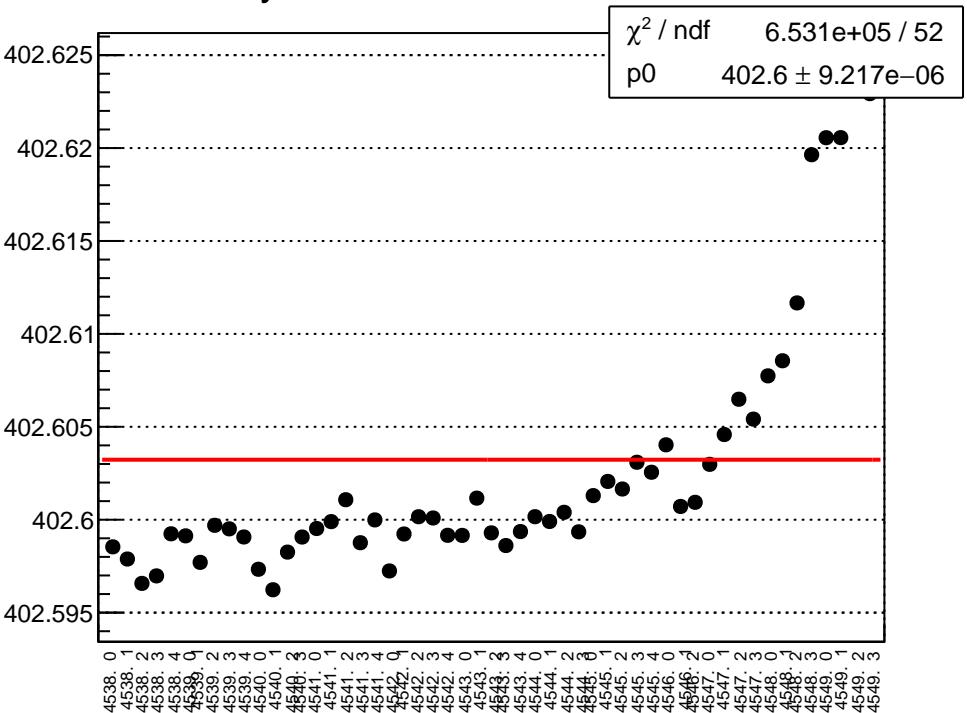
# yield\_bcm\_dg\_ds\_mean vs run



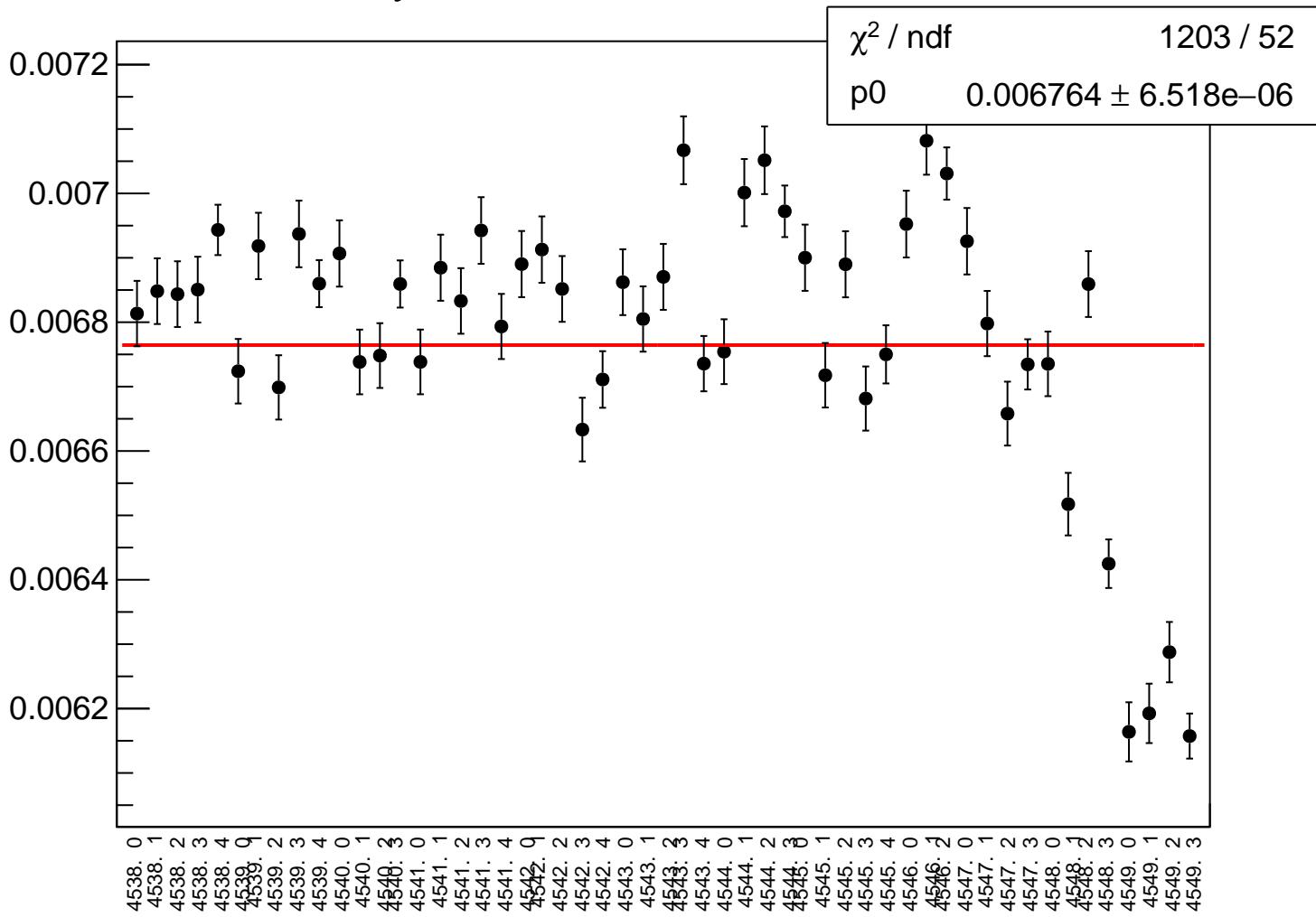
# yield\_bcm\_dg\_ds\_rms vs run



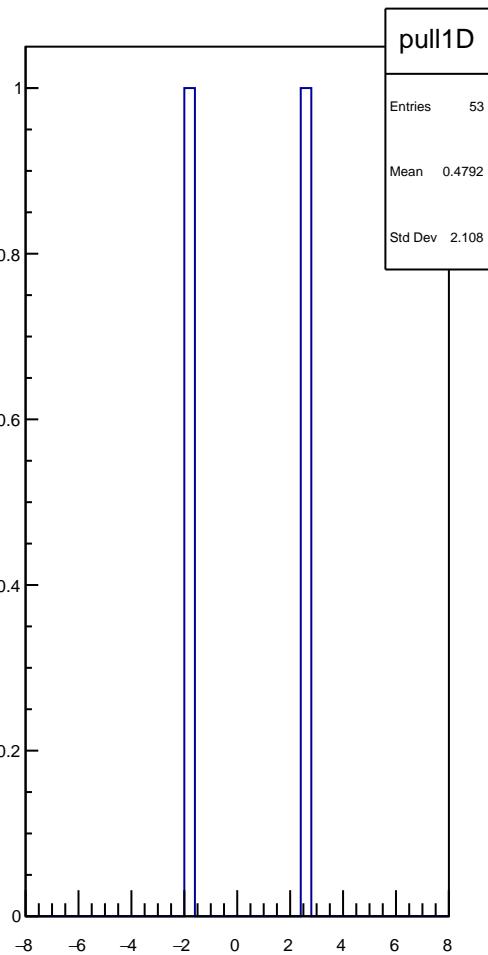
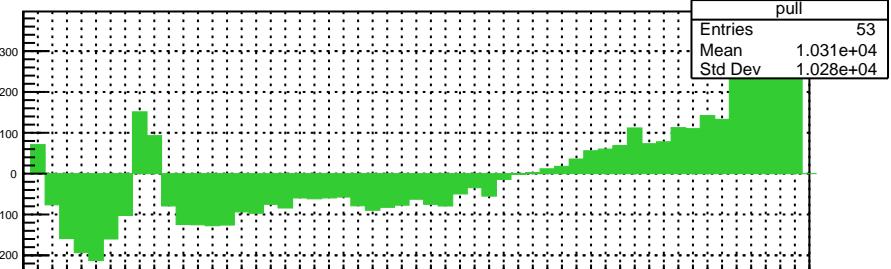
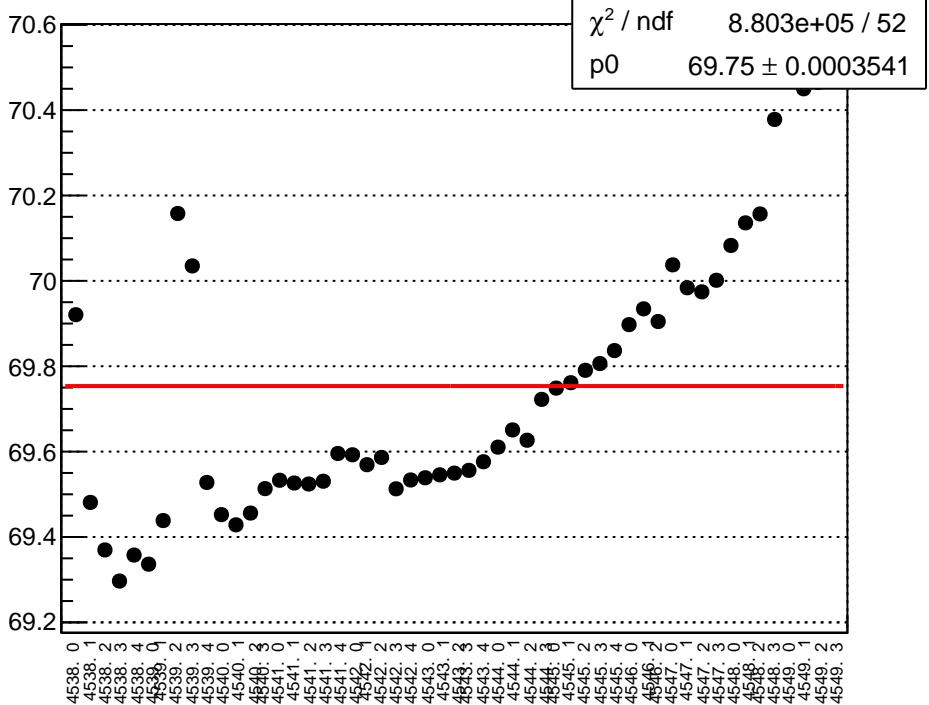
# yield\_cav4bQ\_mean vs run



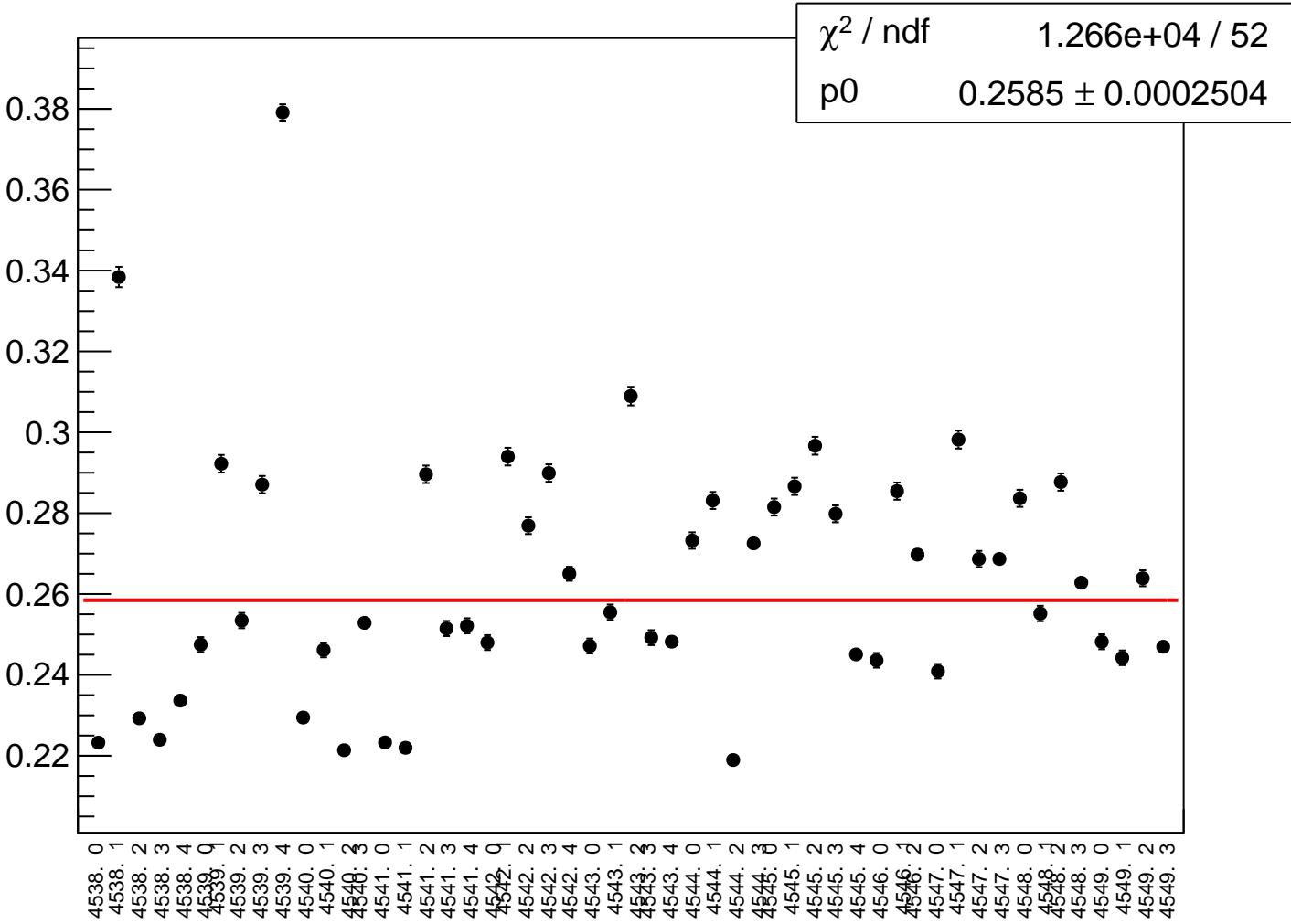
# yield\_cav4bQ\_rms vs run



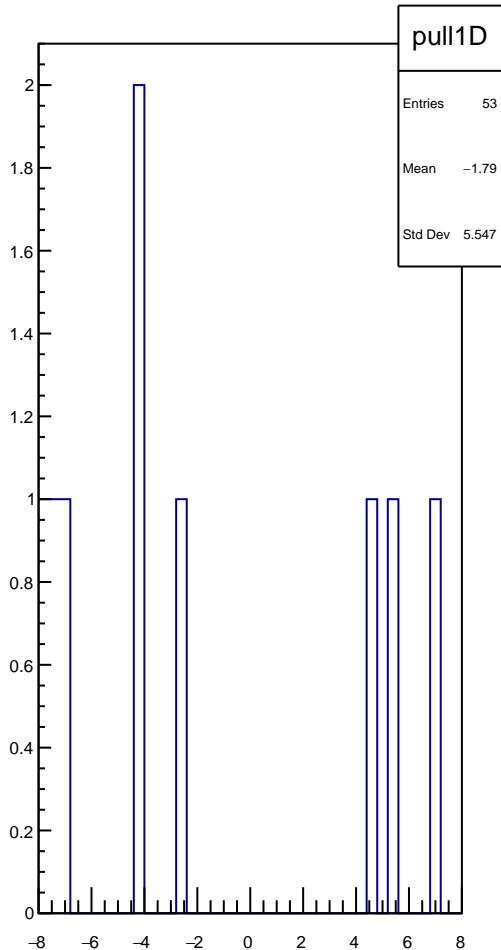
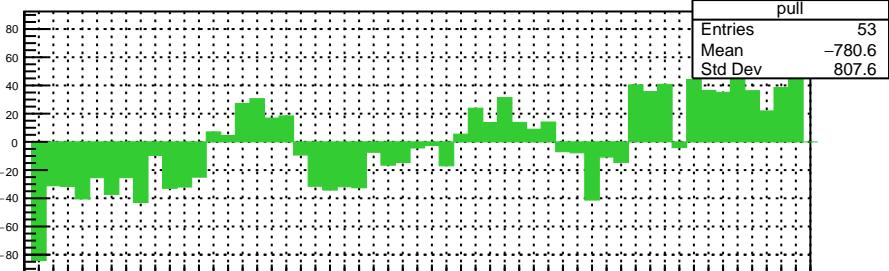
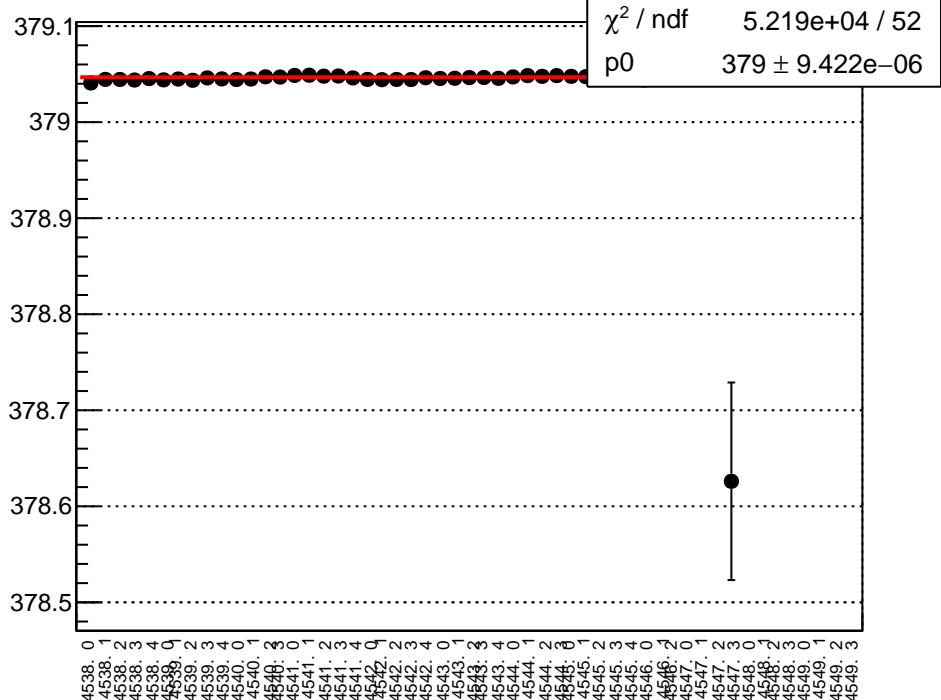
# yield\_cav4cQ\_mean vs run



# yield\_cav4cQ\_rms vs run



# yield\_cav4dQ\_mean vs run

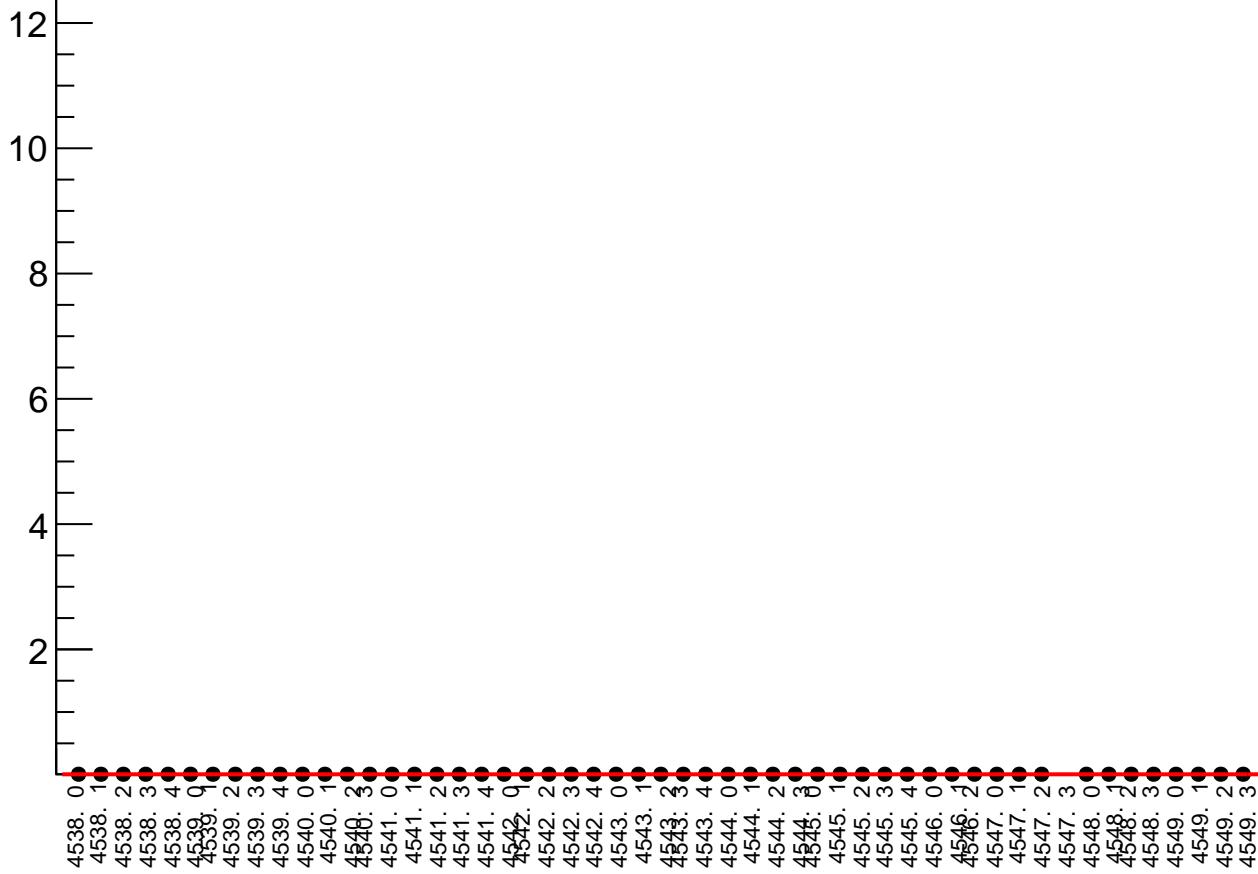


# yield\_cav4dQ\_rms vs run

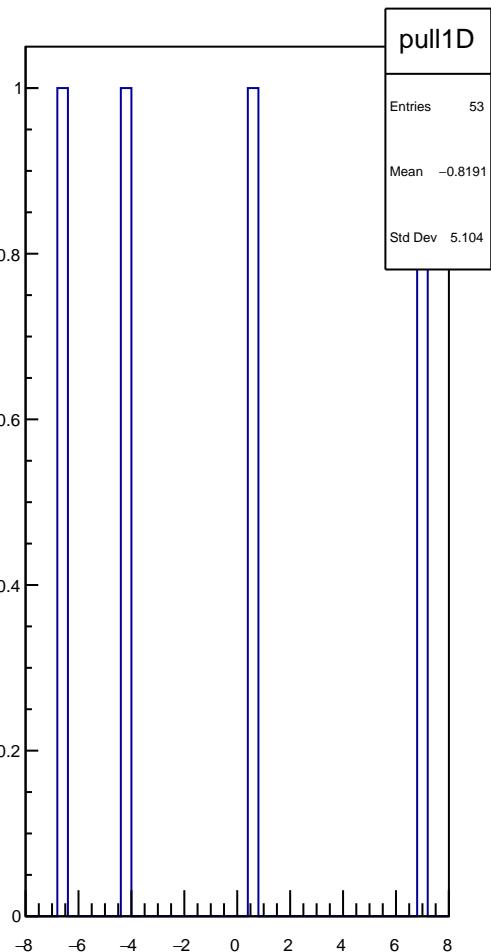
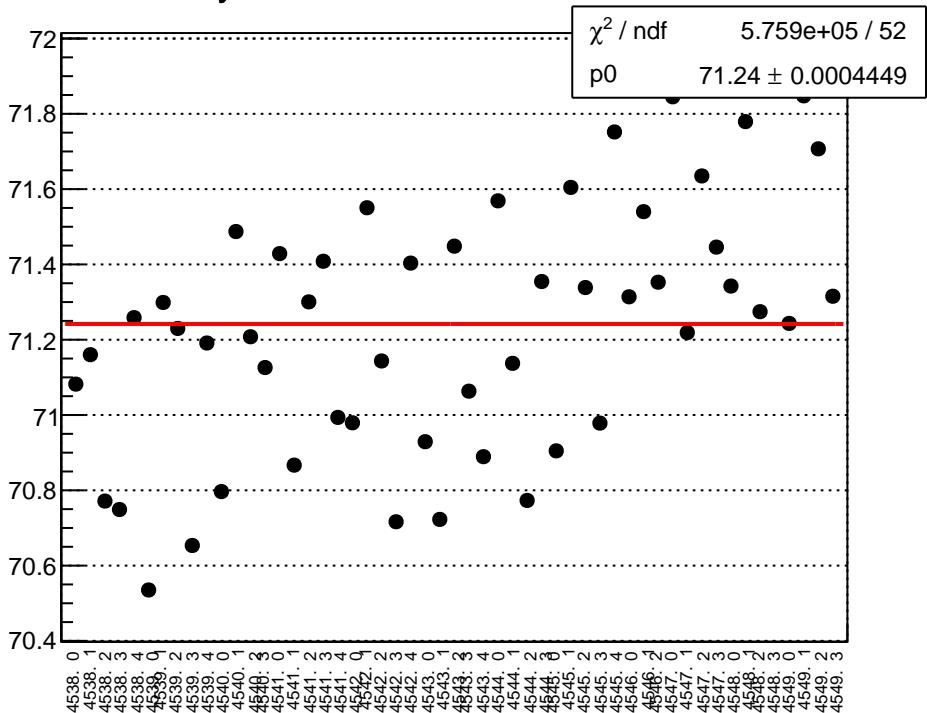
$\chi^2 / \text{ndf}$

$3.012\text{e+}04 / 52$

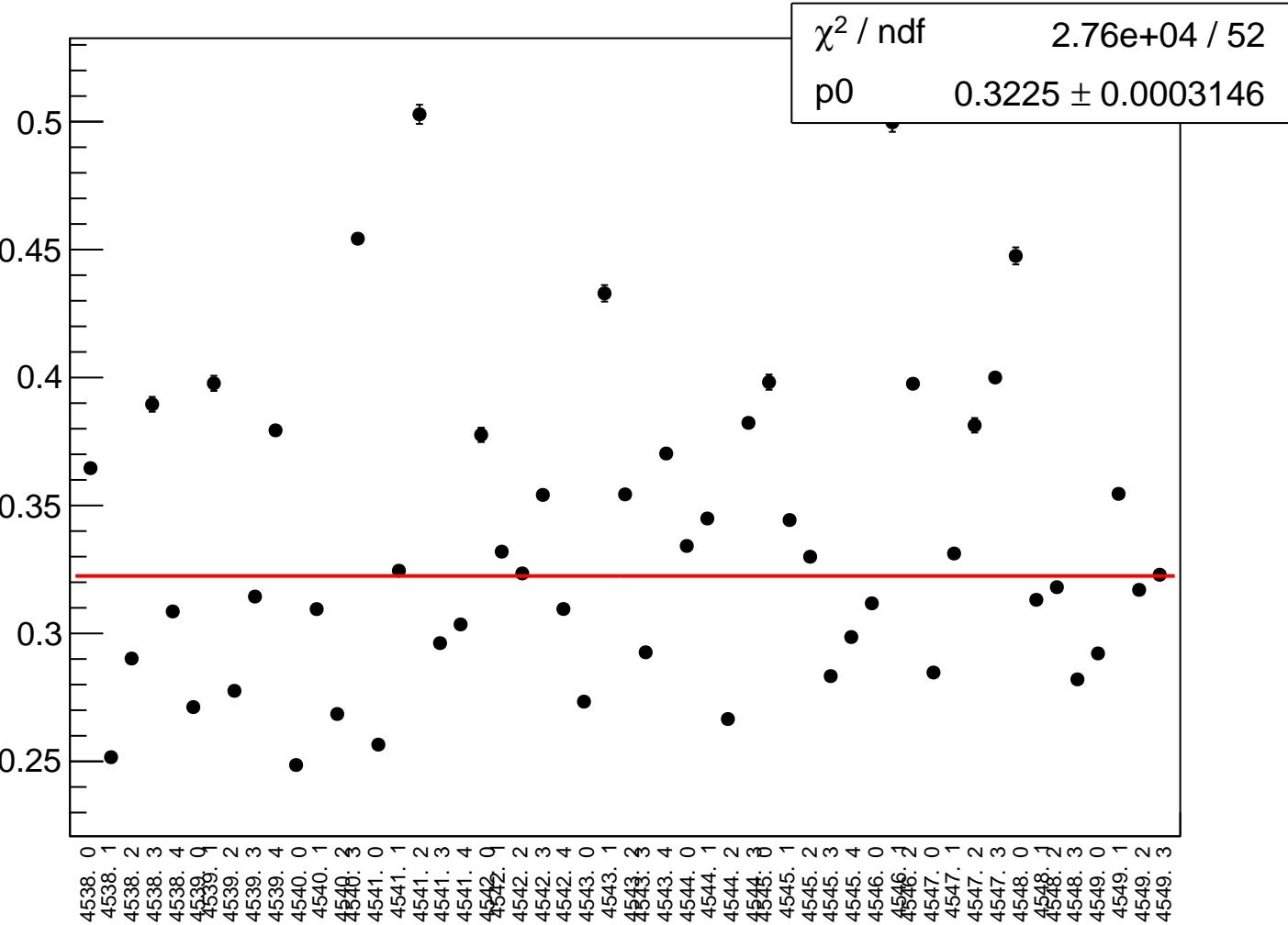
$p0$   $0.006821 \pm 6.662\text{e-}06$



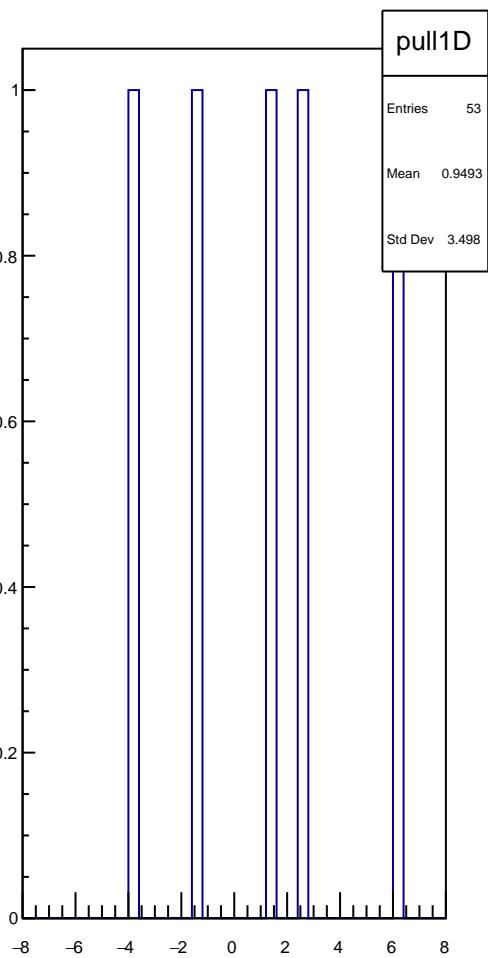
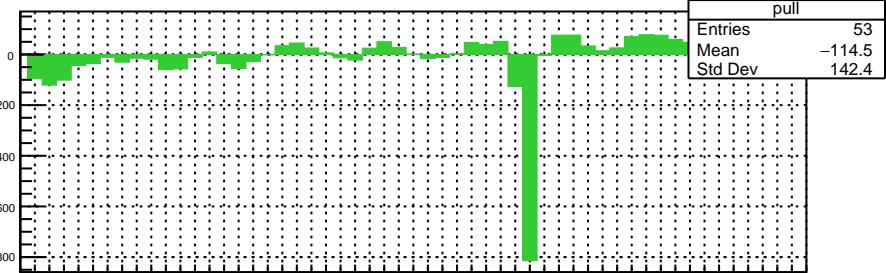
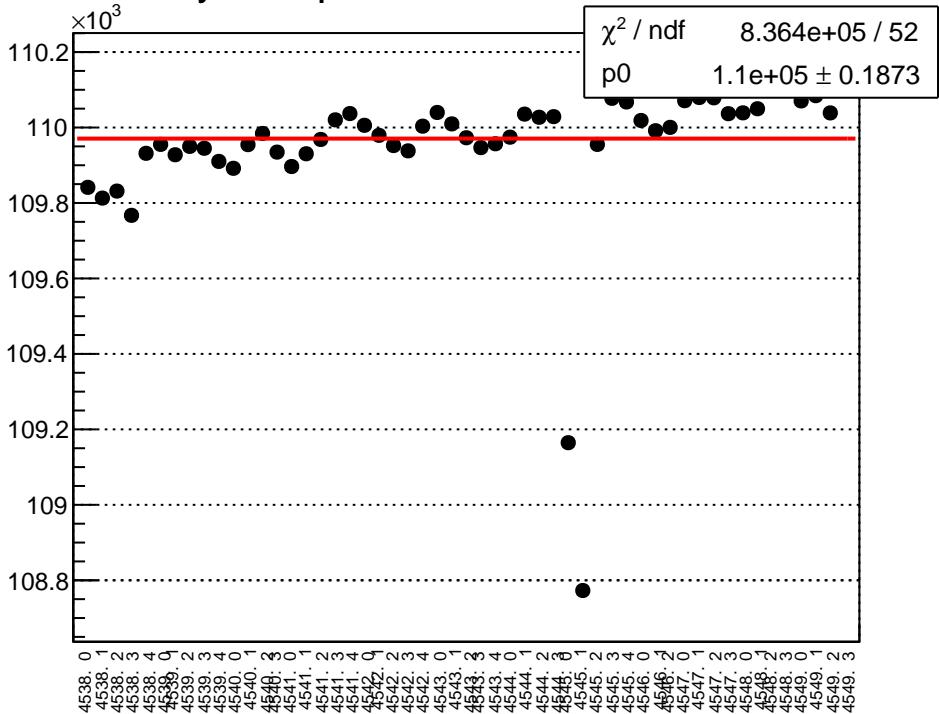
# yield\_bcm0l02\_mean vs run



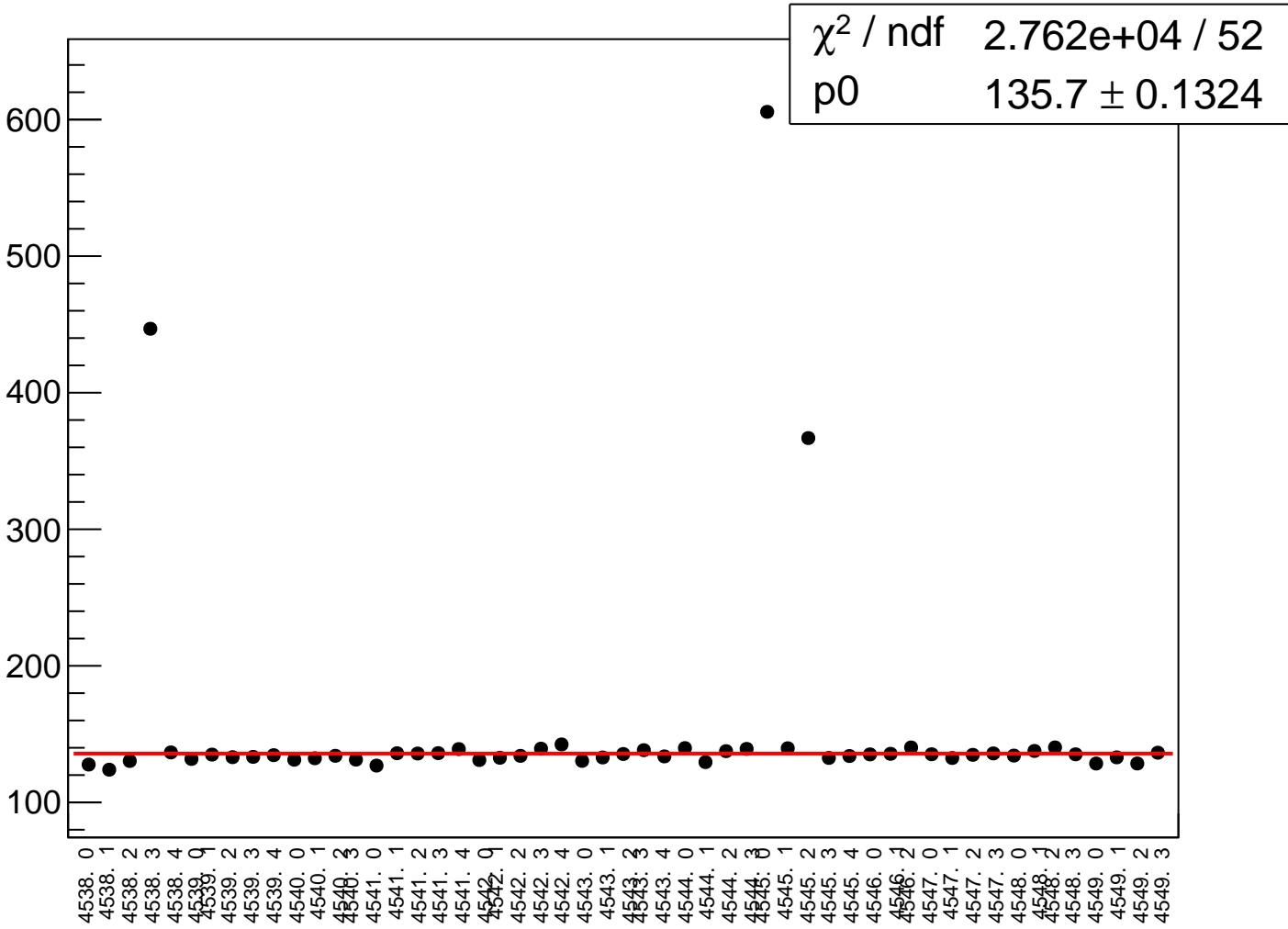
# yield\_bcm0l02\_rms vs run



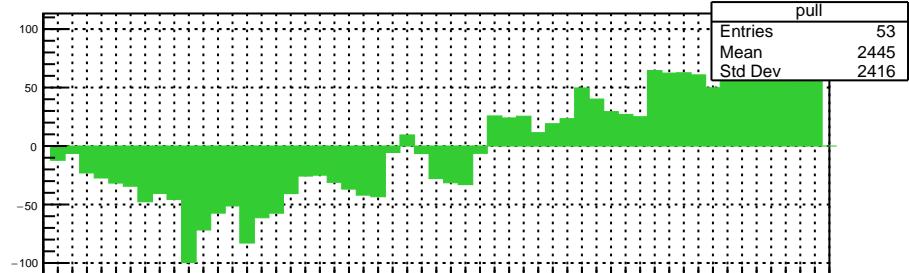
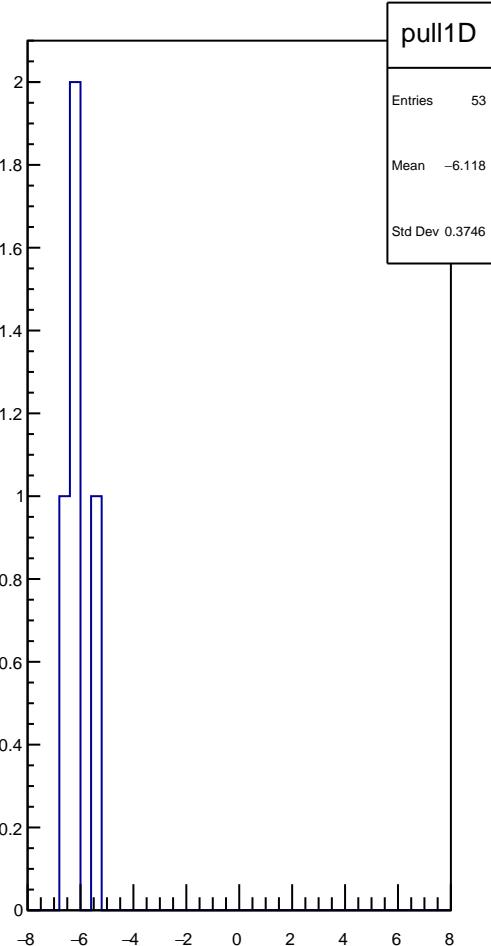
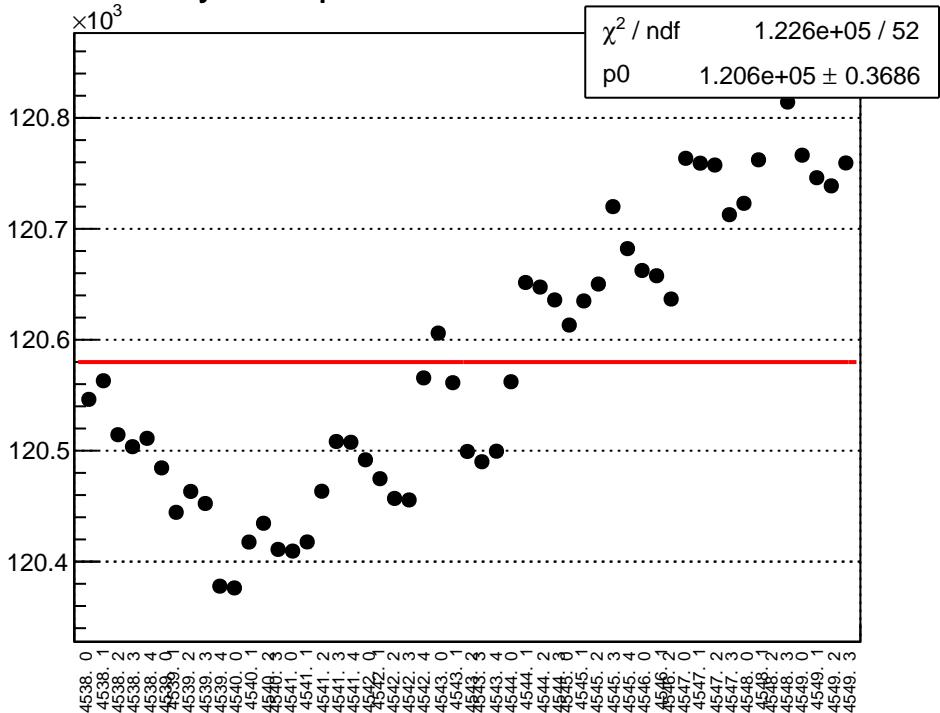
# yield\_bpm2i01WS\_mean vs run



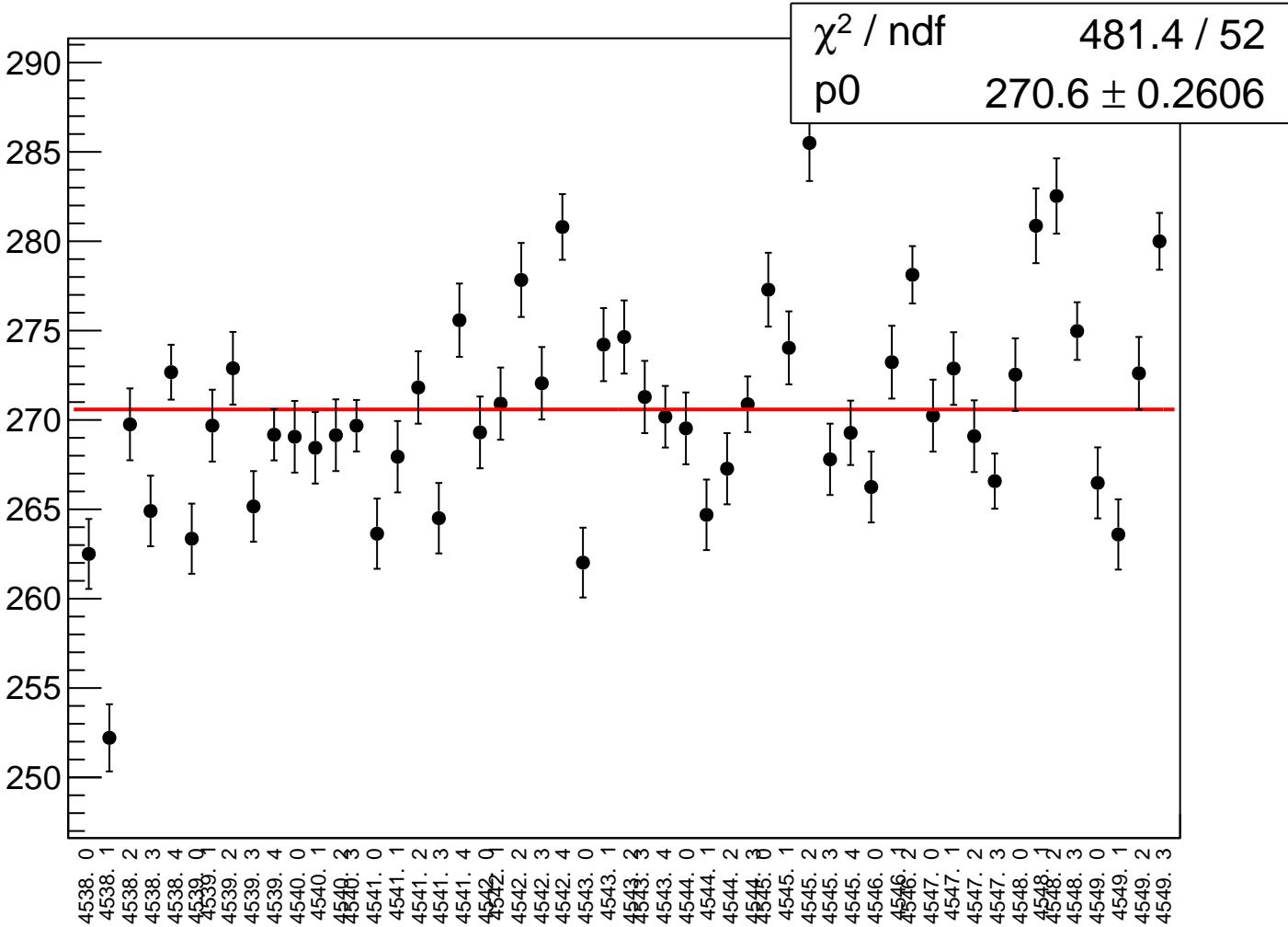
# yield\_bpm2i01WS\_rms vs run



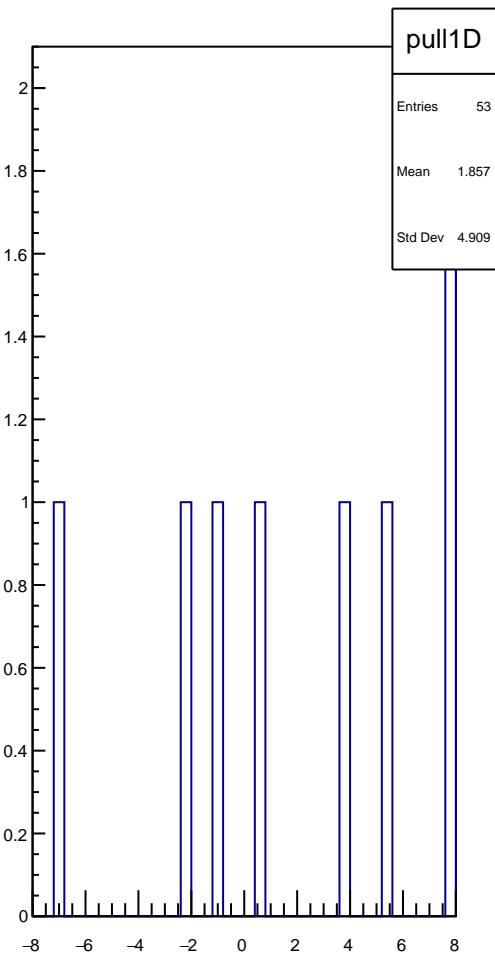
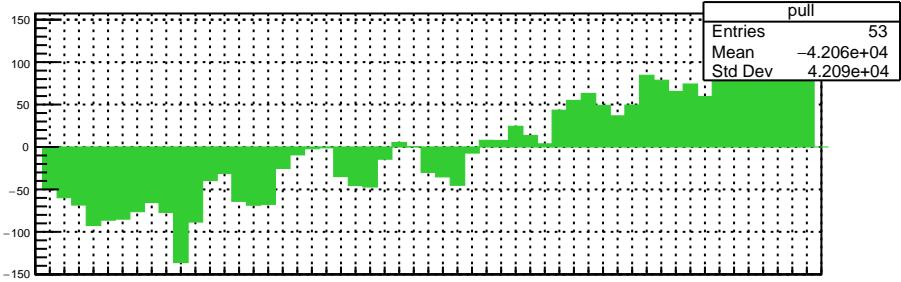
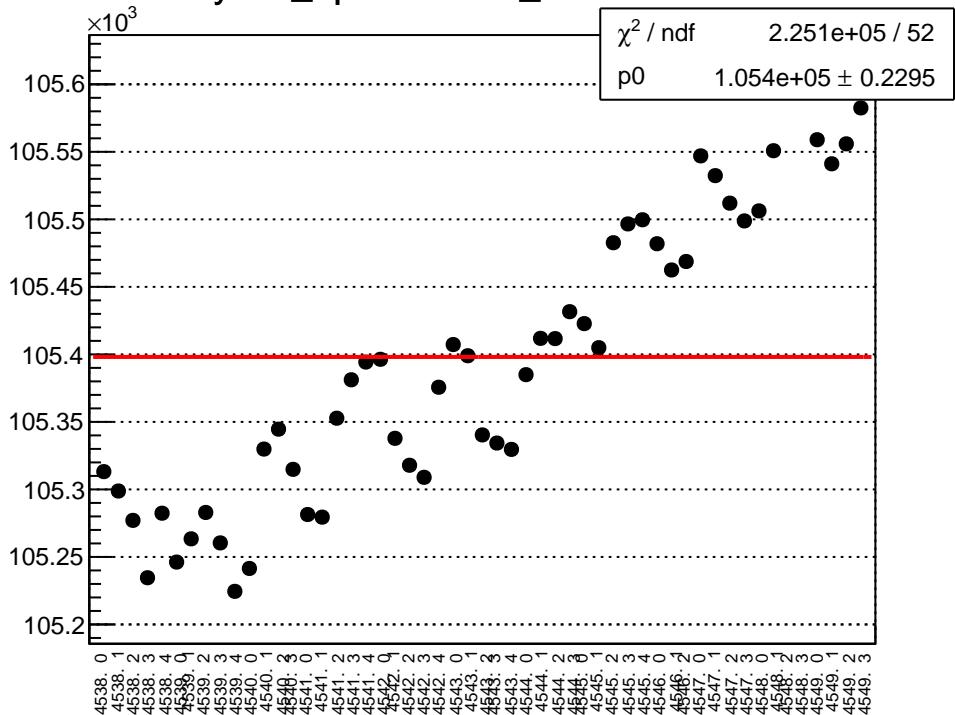
# yield\_bpm0i07WS\_mean vs run



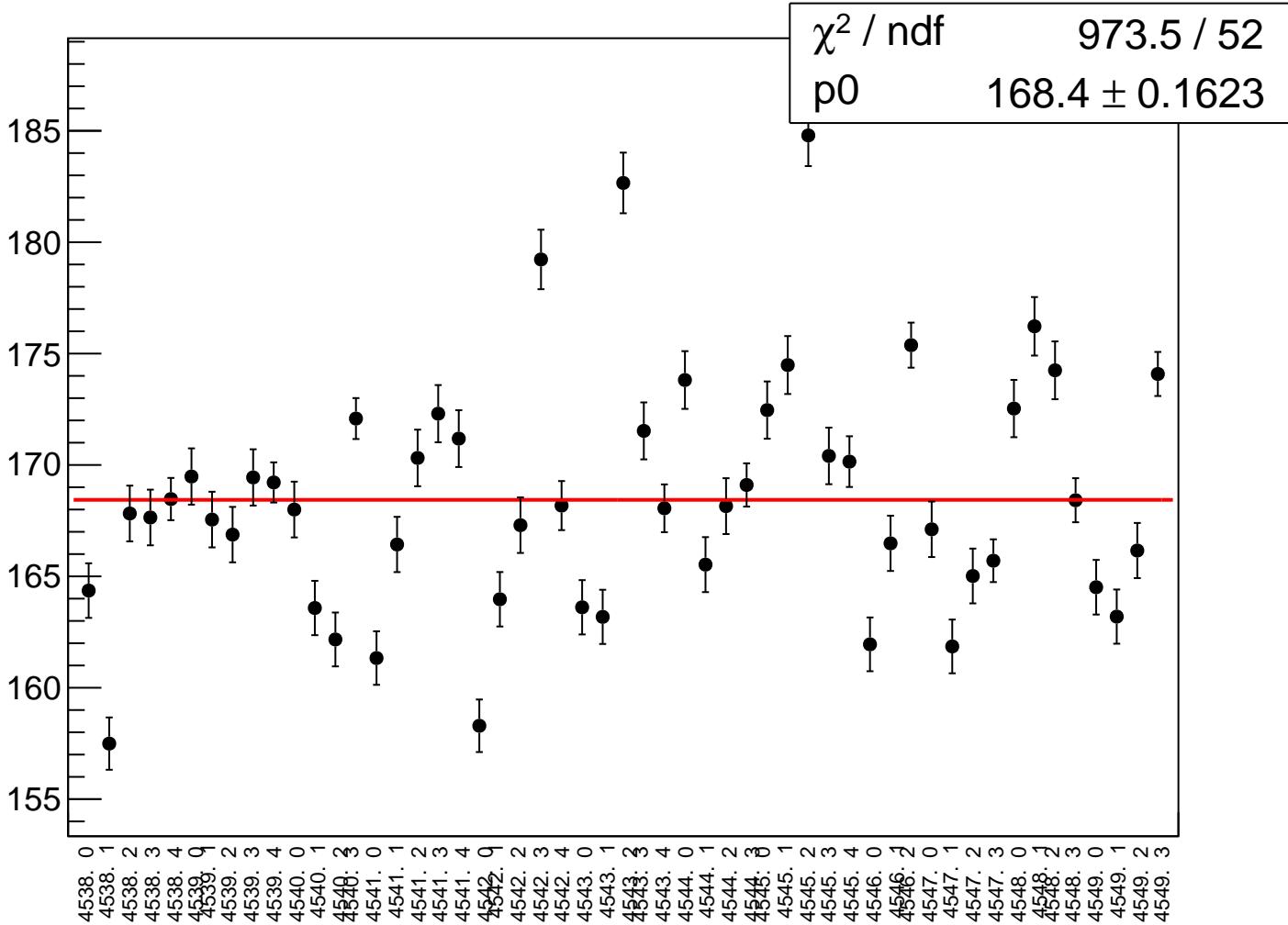
# yield\_bpm0i07WS\_rms vs run



# yield\_bpm0l01WS\_mean vs run

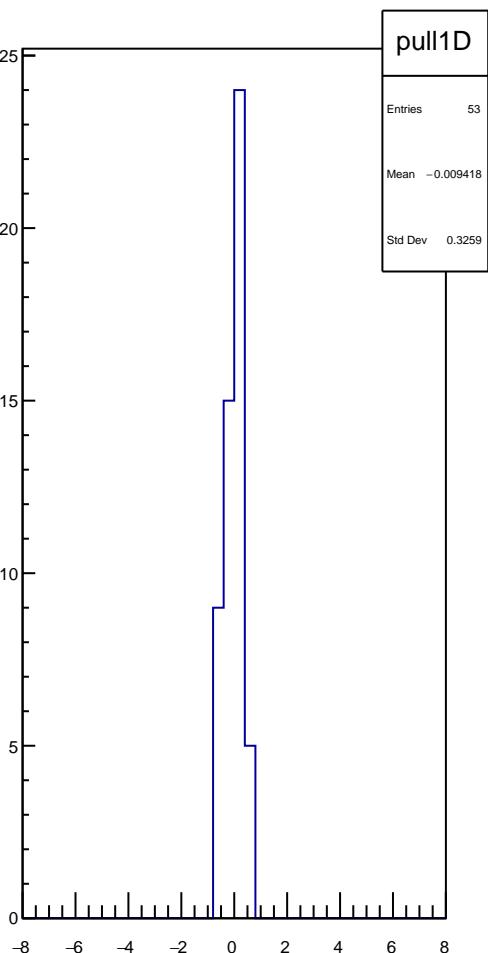
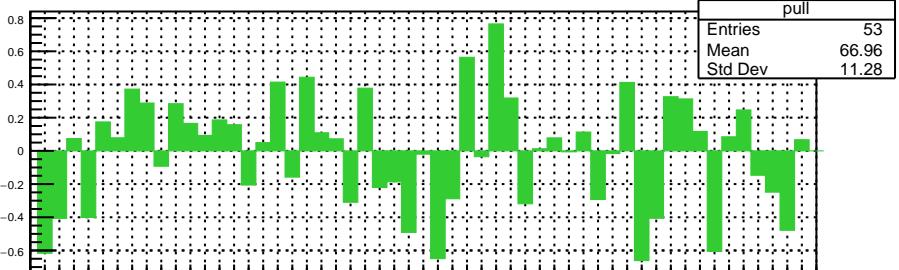
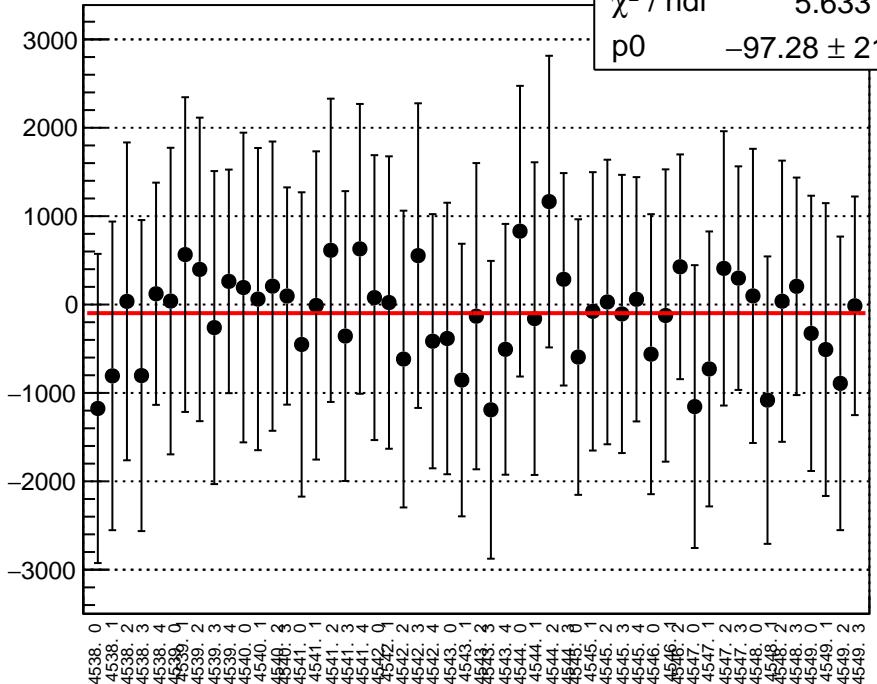


# yield\_bpm0l01WS\_rms vs run

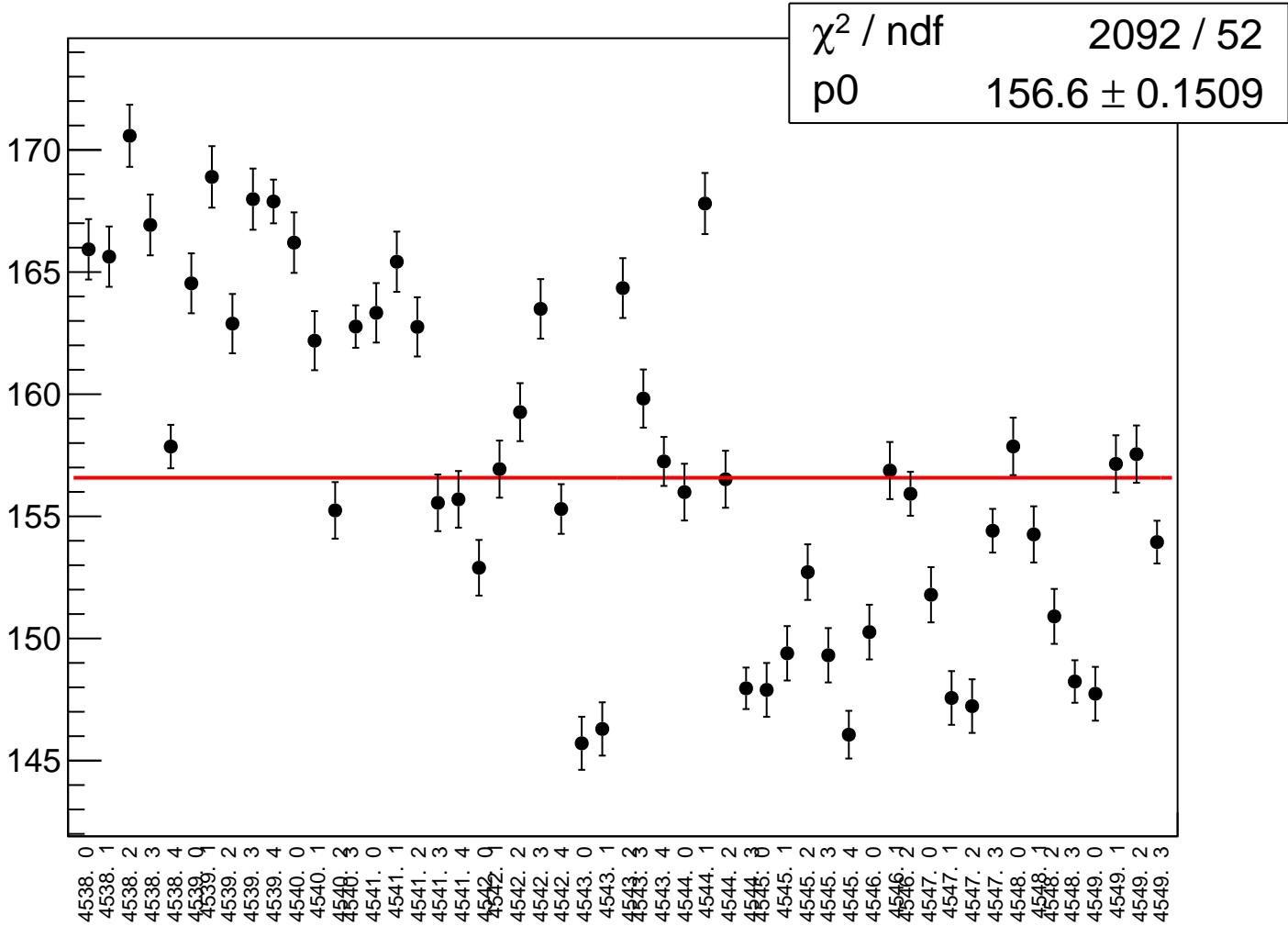


# asym\_bcm\_an\_ds\_mean vs run

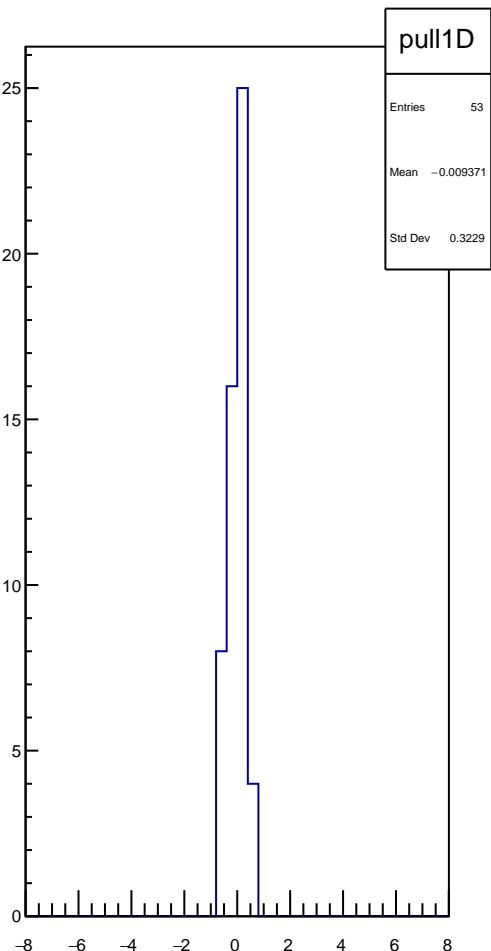
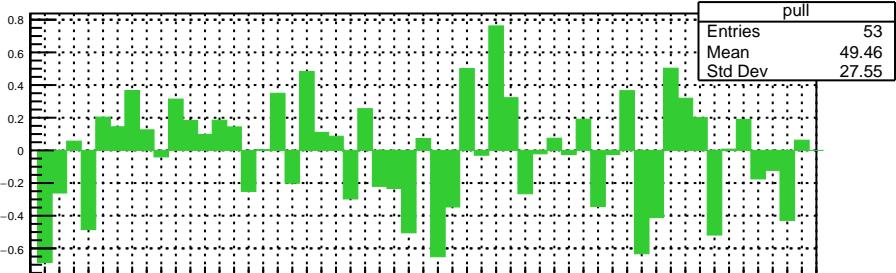
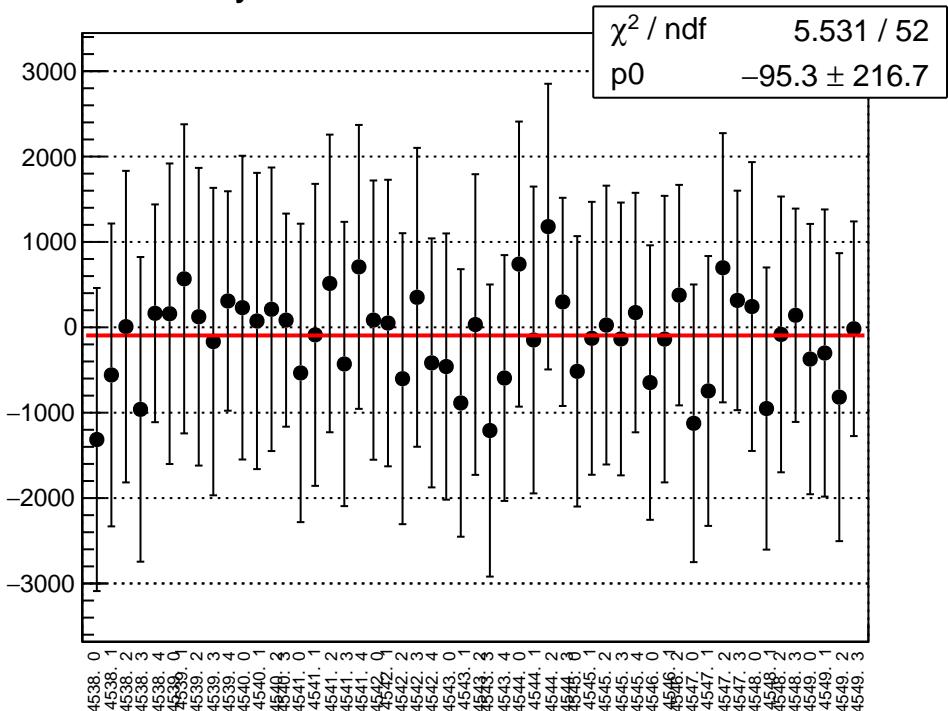
$\chi^2 / \text{ndf}$  5.633 / 52  
 $p0$   $-97.28 \pm 213.4$



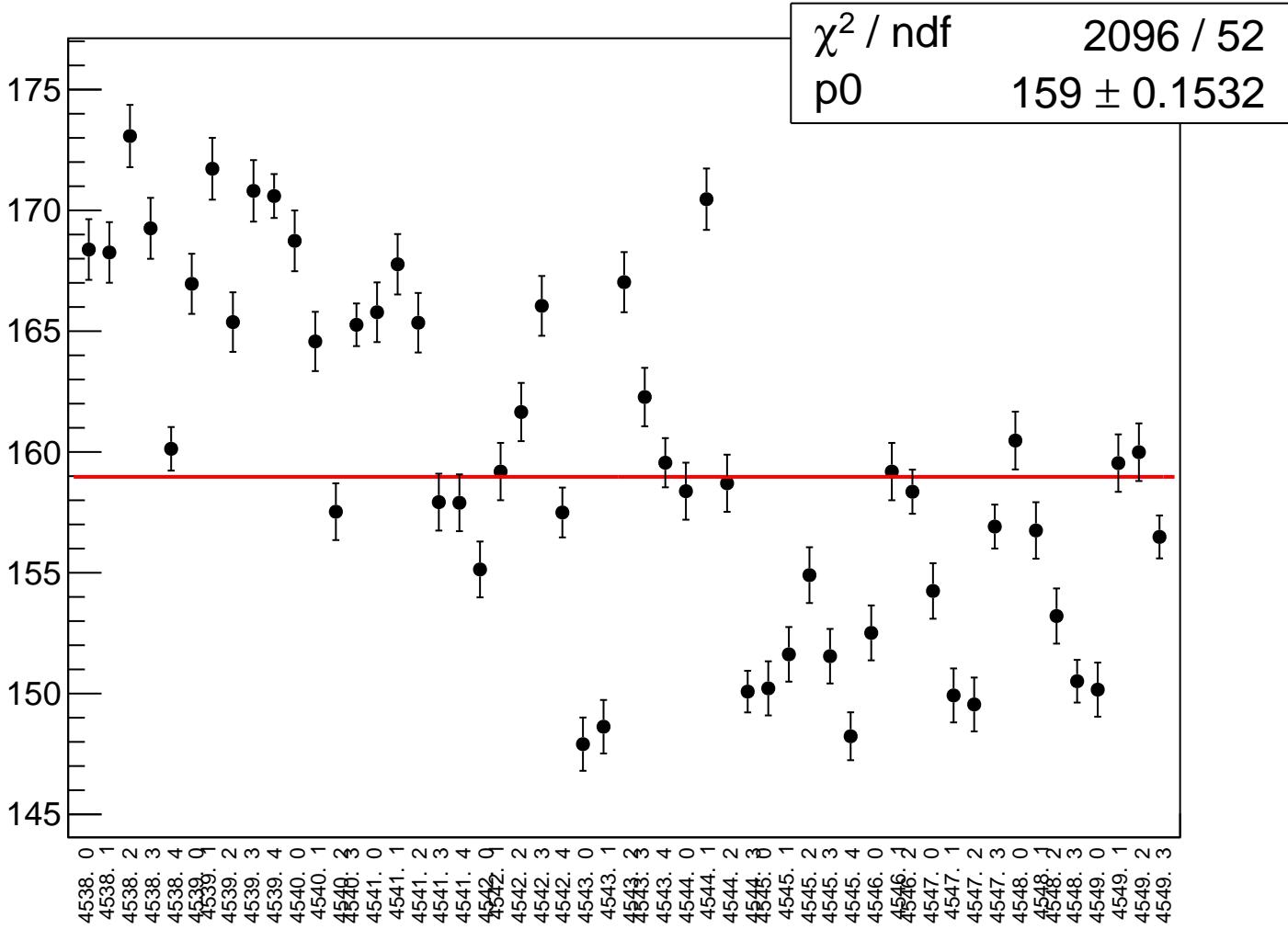
# asym\_bcm\_an\_ds\_rms vs run



# asym\_bcm\_an\_ds3\_mean vs run

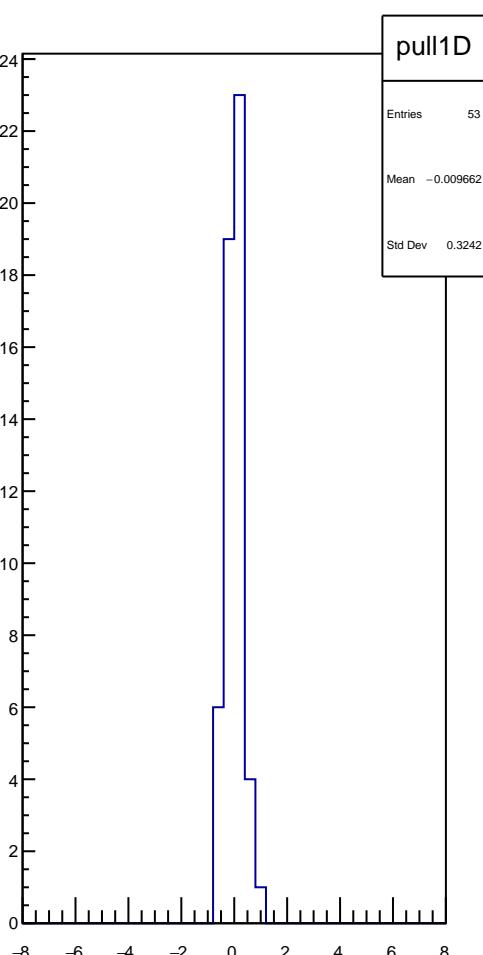
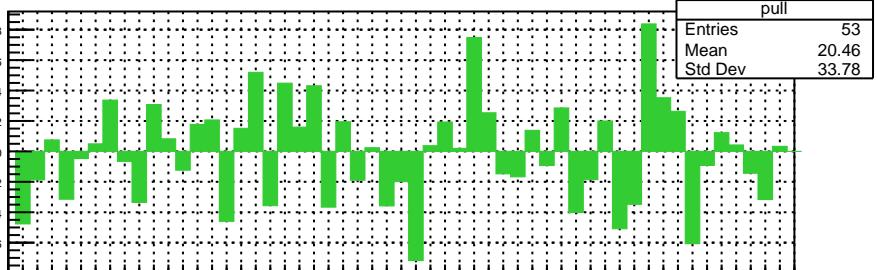
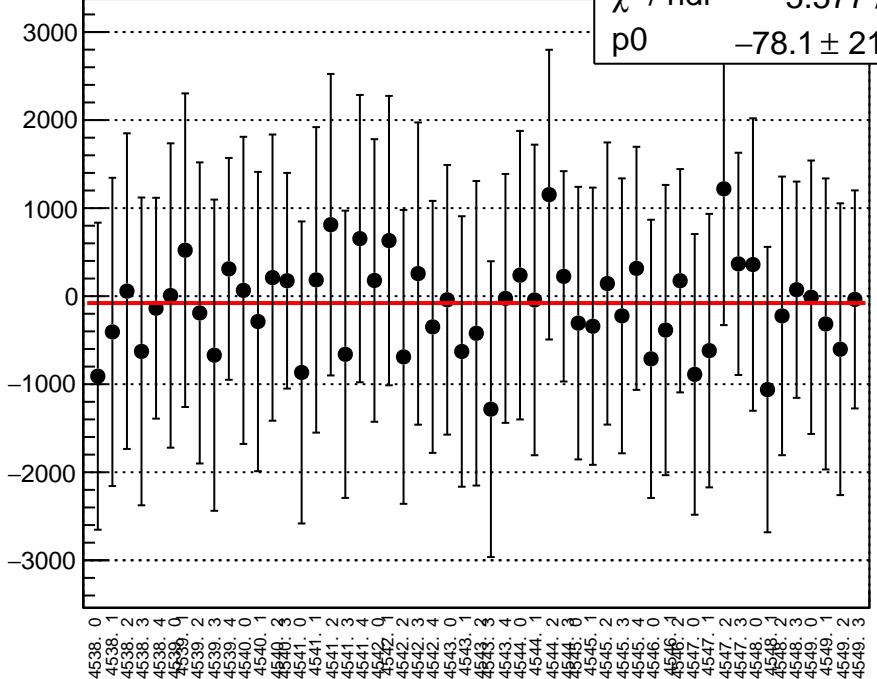


# asym\_bcm\_an\_ds3\_rms vs run

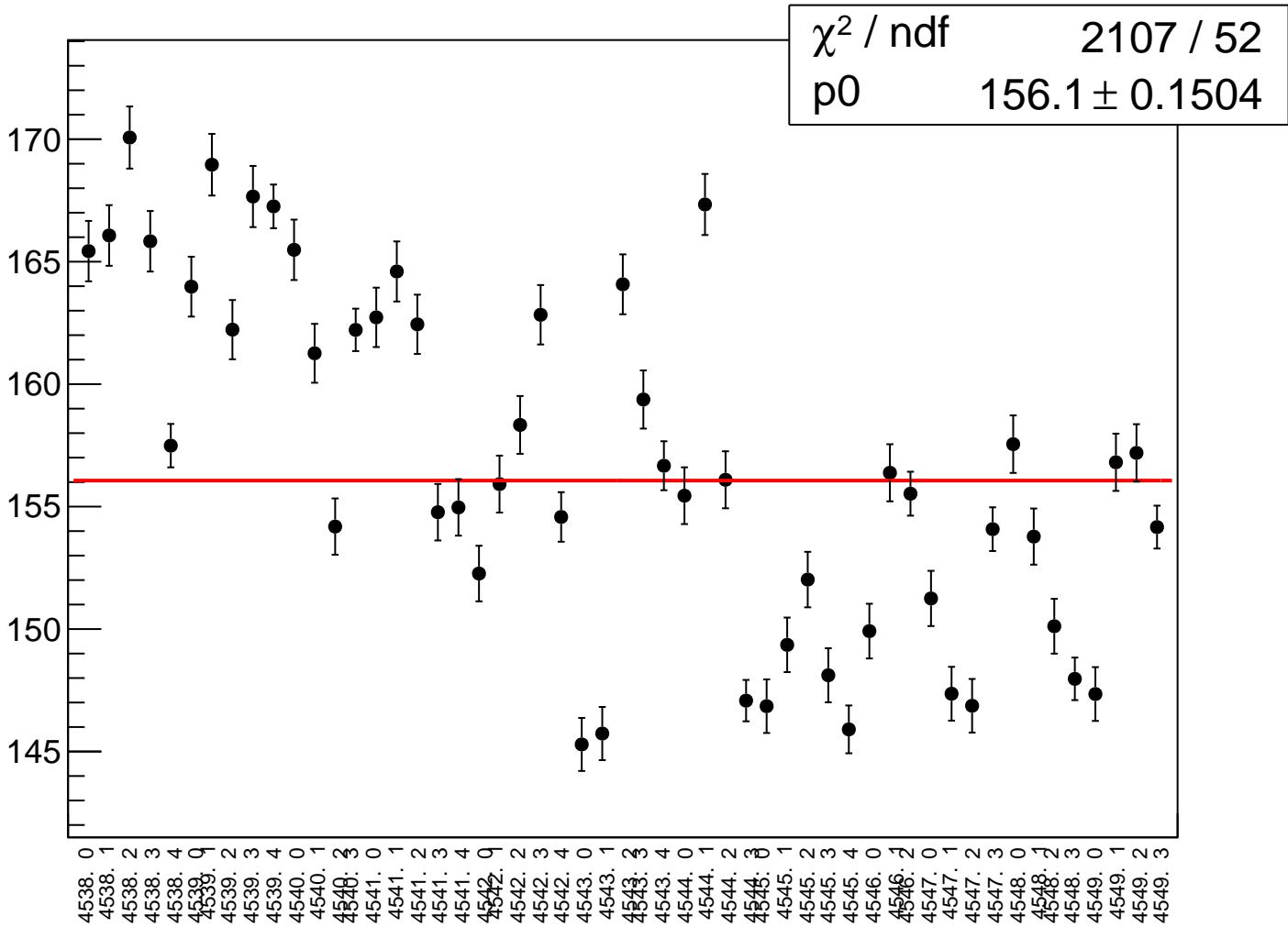


# asym\_bcm\_an\_us\_mean vs run

$\chi^2 / \text{ndf}$  5.577 / 52  
 $p0$   $-78.1 \pm 212.7$

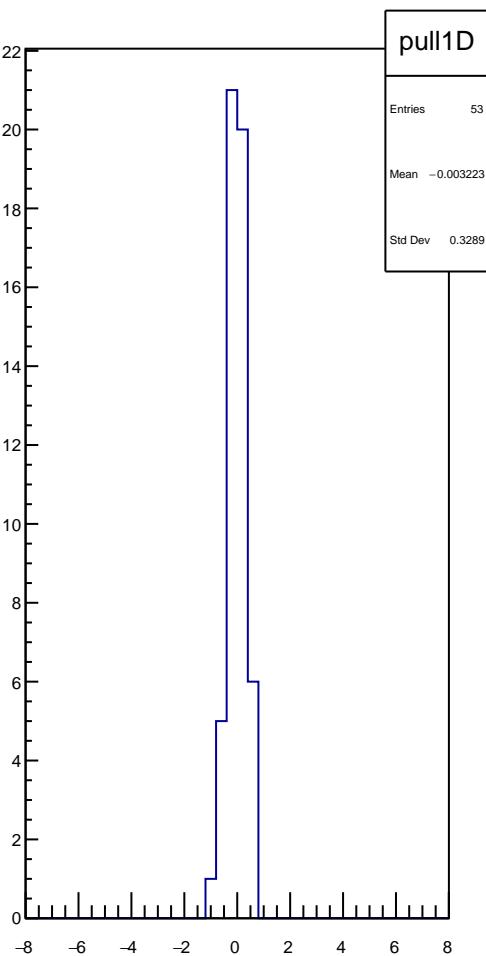
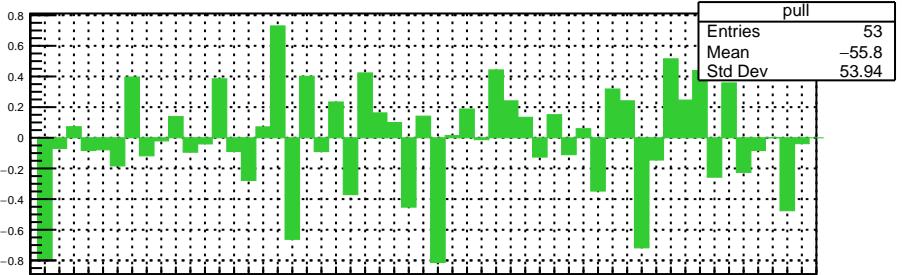
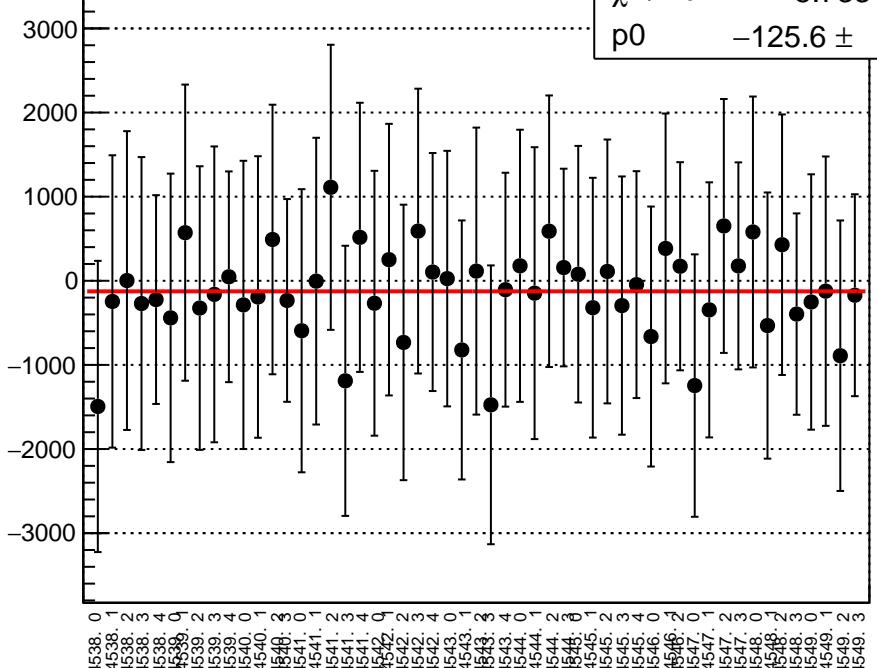


# asym\_bcm\_an\_us\_rms vs run

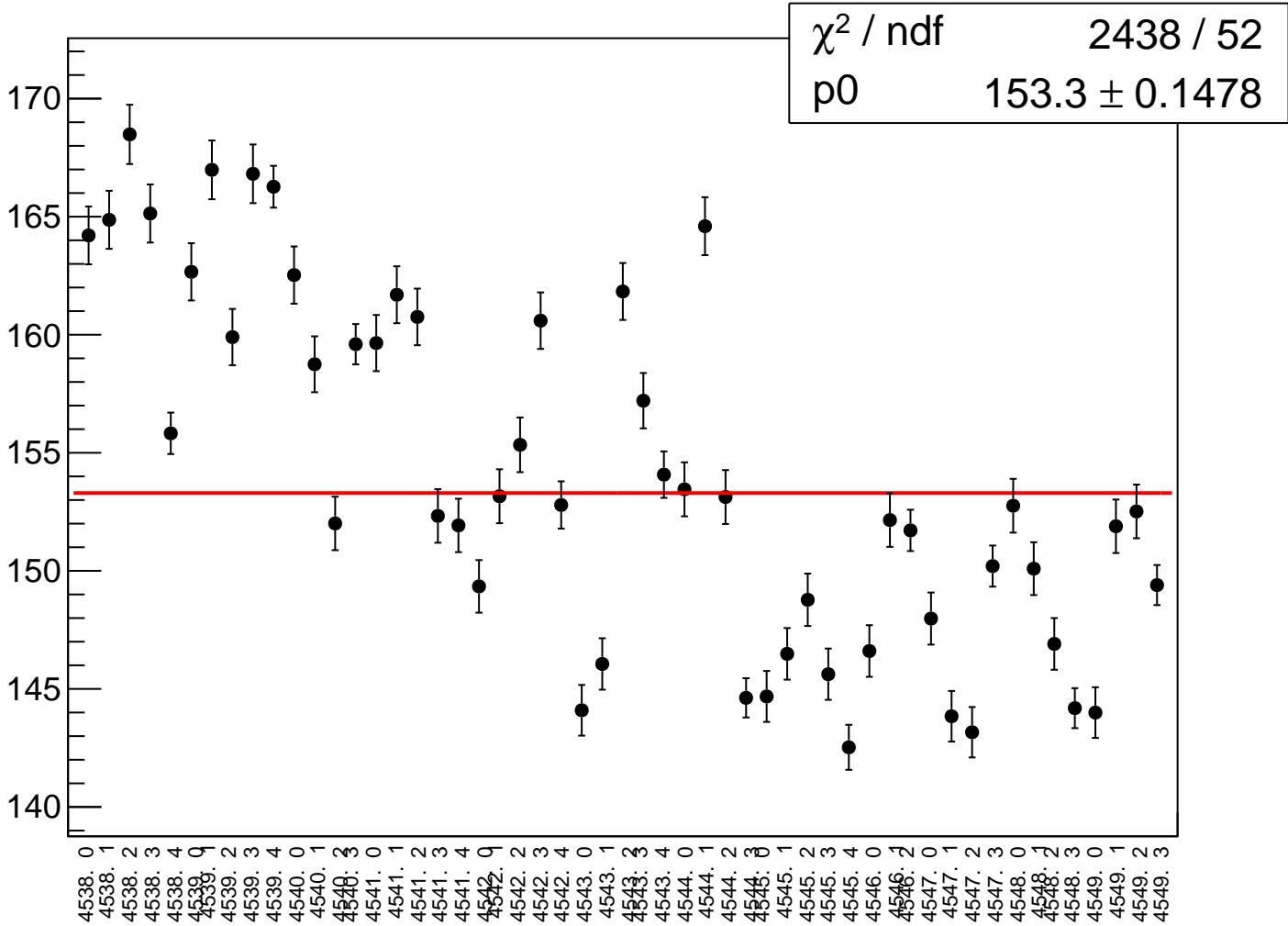


# asym\_bcm\_dg\_us\_mean vs run

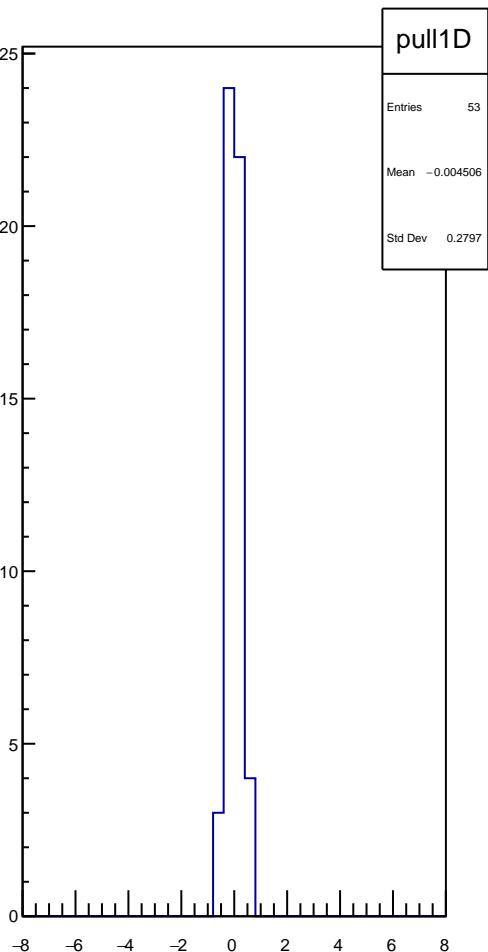
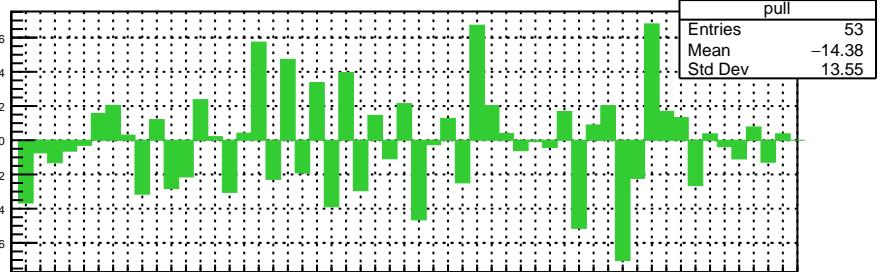
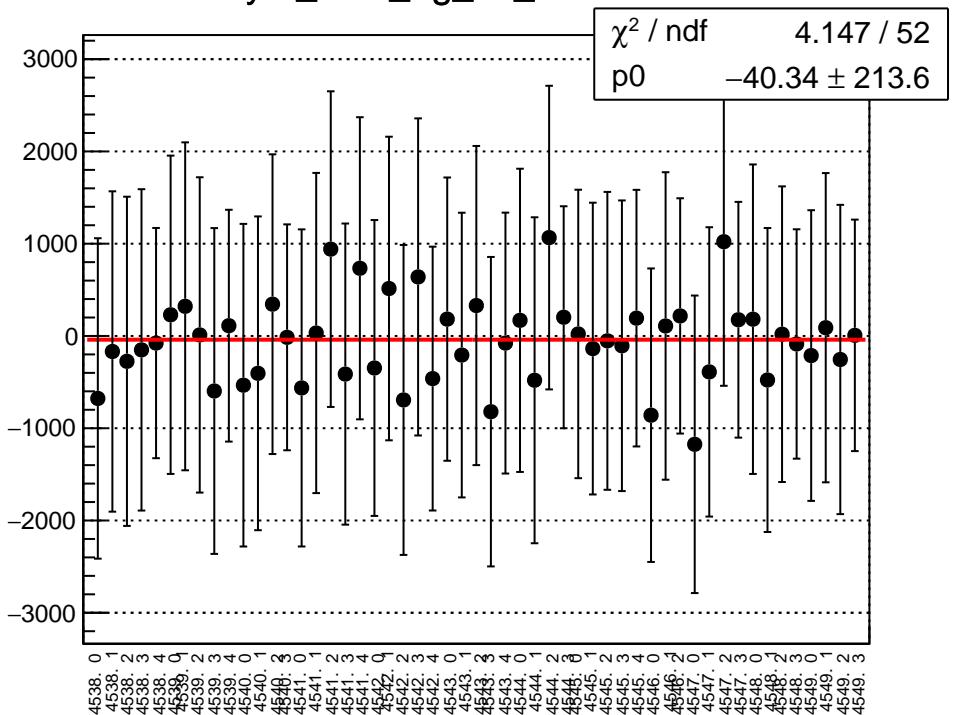
$\chi^2 / \text{ndf}$  5.733 / 52  
 $p0$   $-125.6 \pm 209$



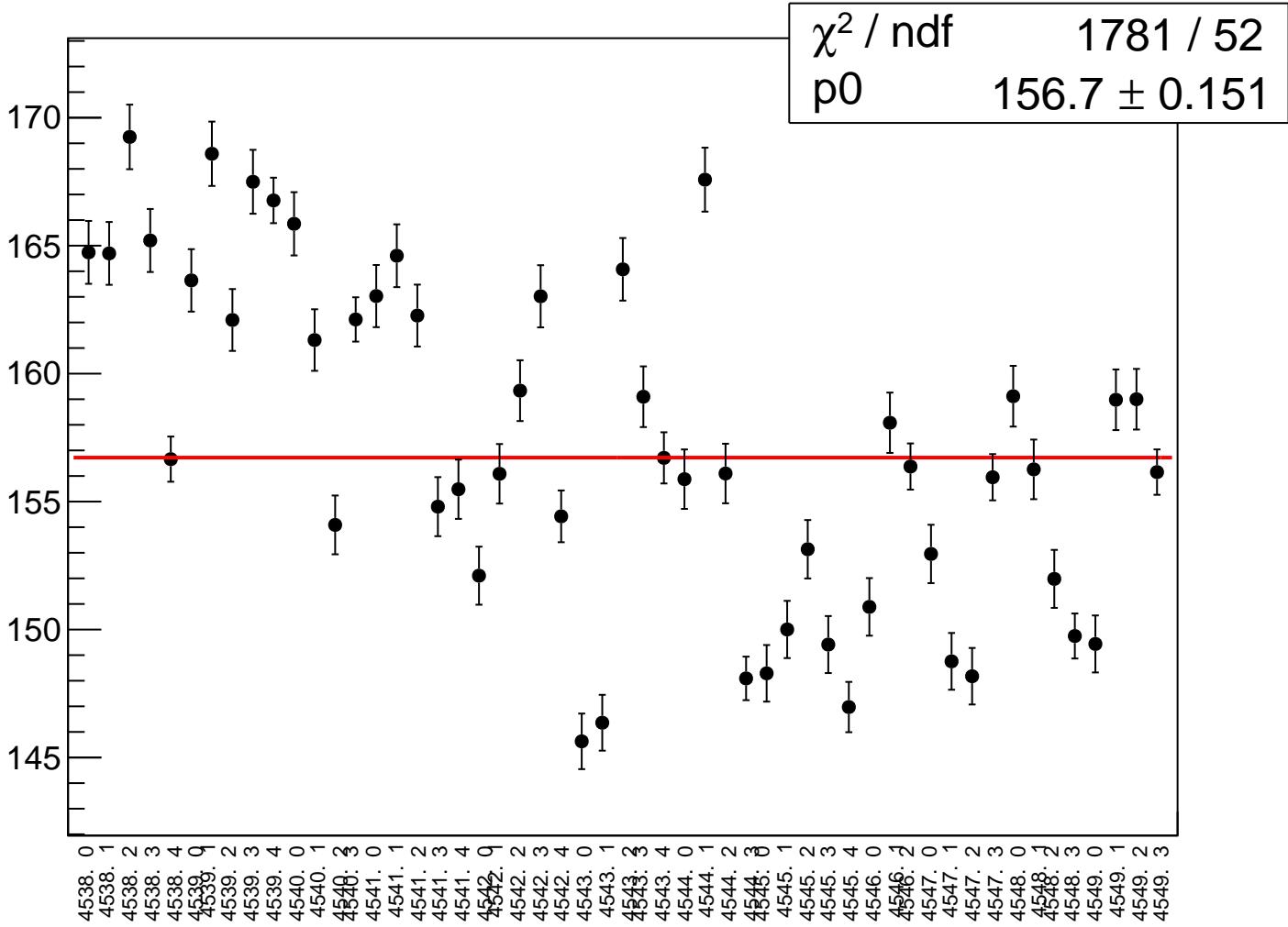
# asym\_bcm\_dg\_us\_rms vs run



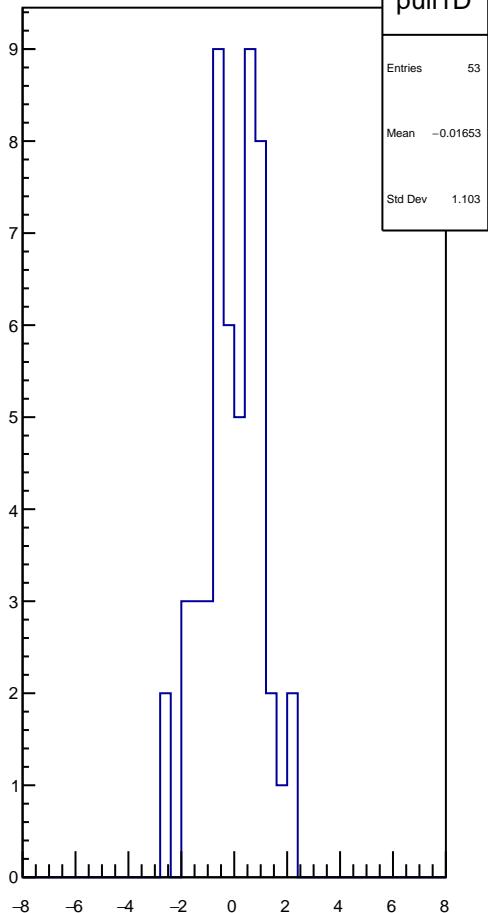
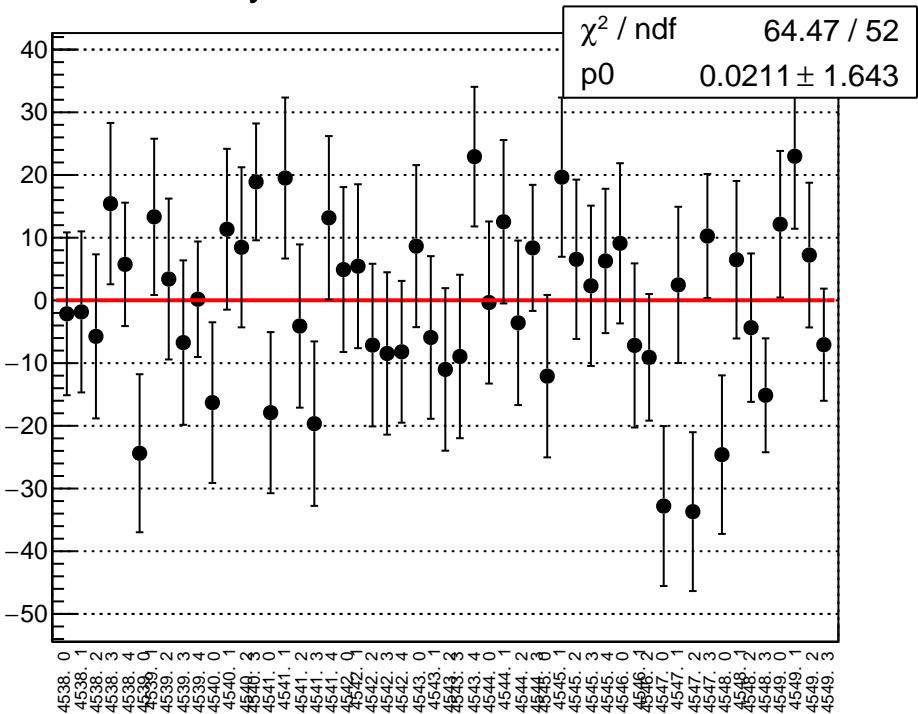
# asym\_bcm\_dg\_ds\_mean vs run



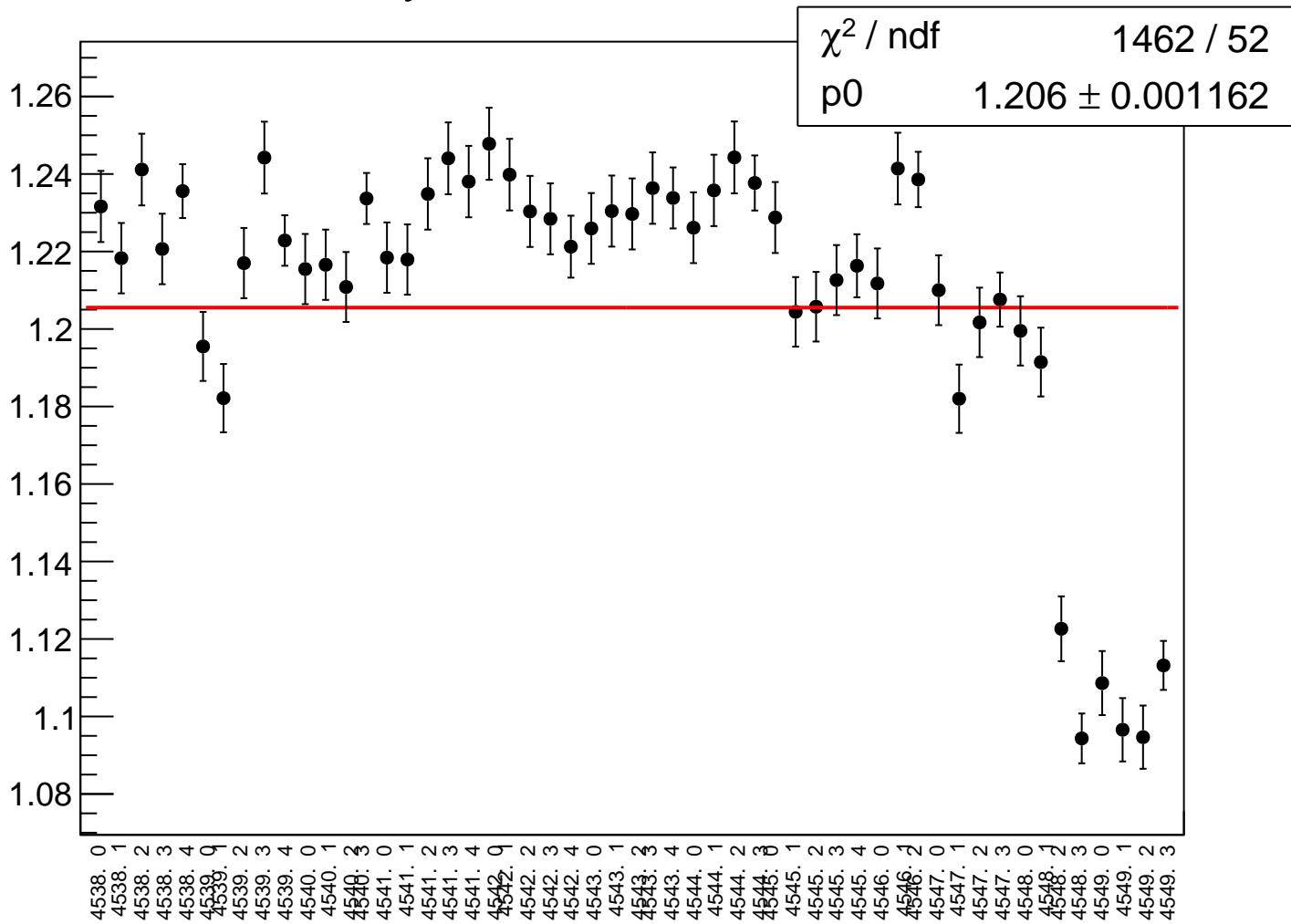
# asym\_bcm\_dg\_ds\_rms vs run



# asym\_cav4bQ\_mean vs run



# asym\_cav4bQ\_rms vs run



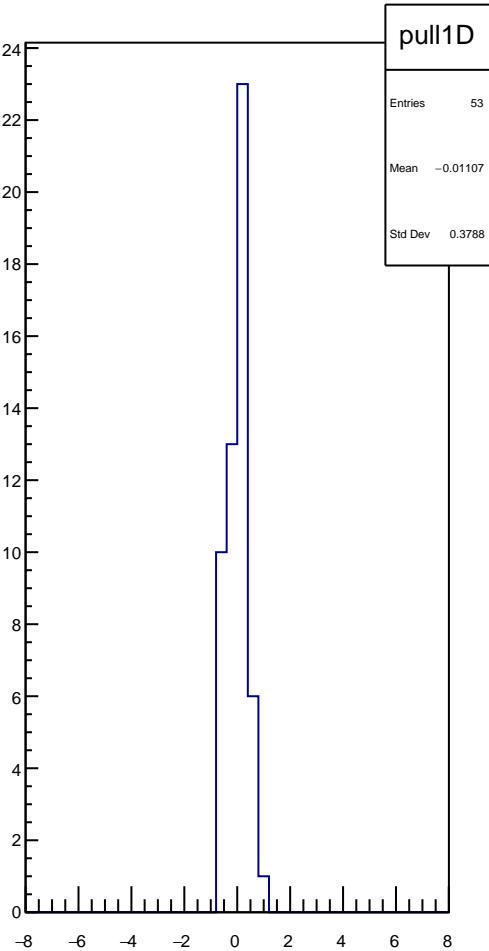
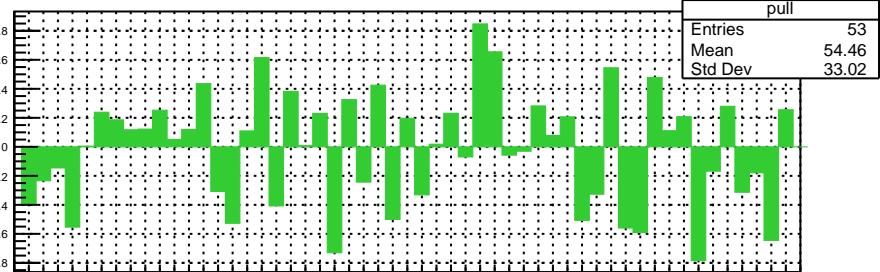
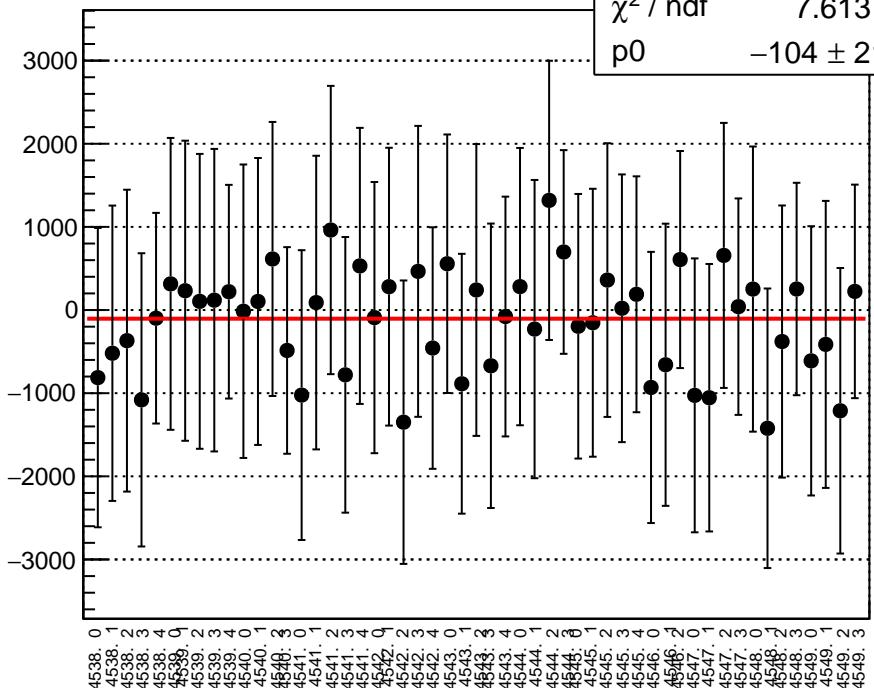
# asym\_cav4cQ\_mean vs run

$\chi^2 / \text{ndf}$

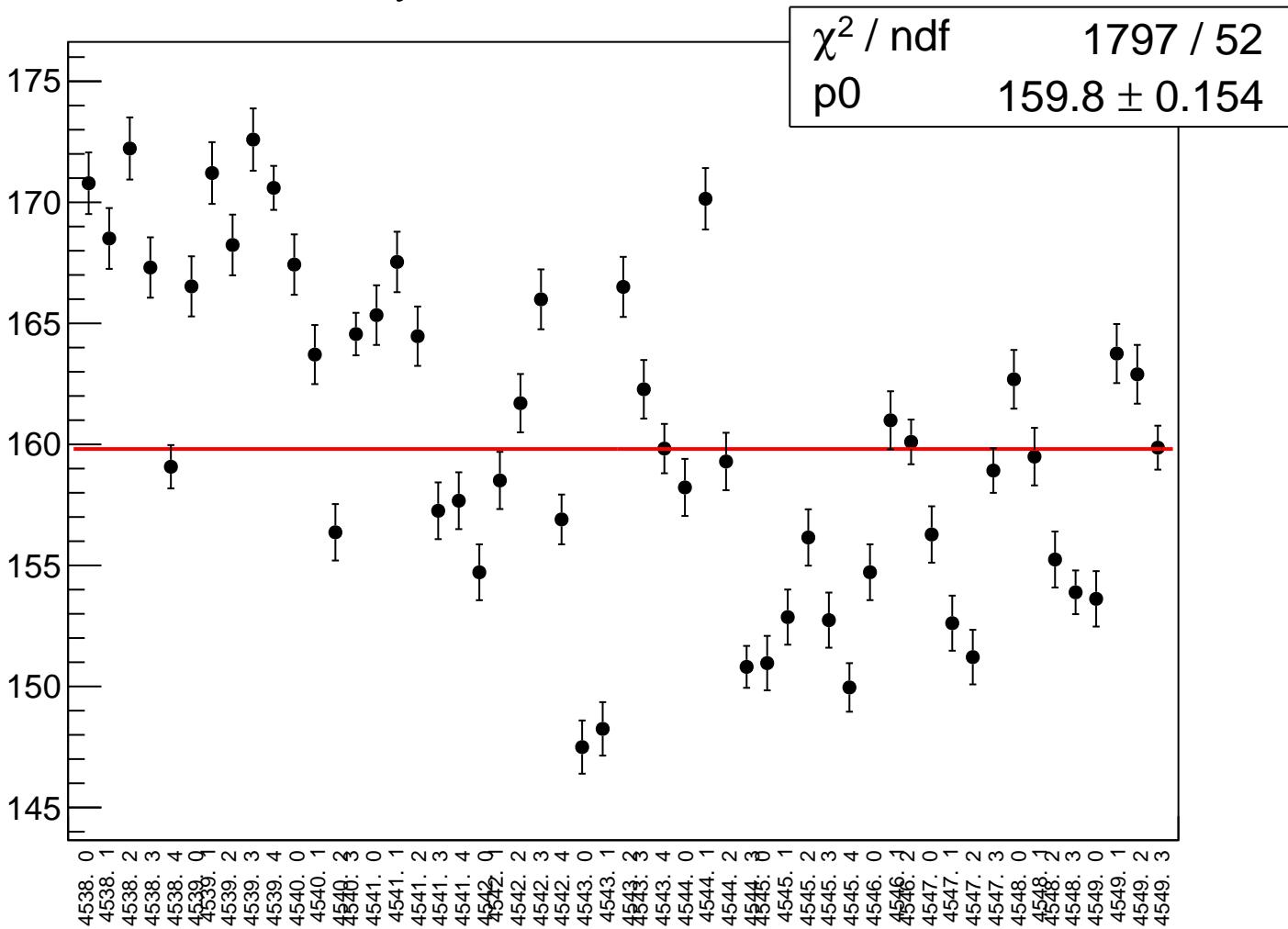
7.613 / 52

p0

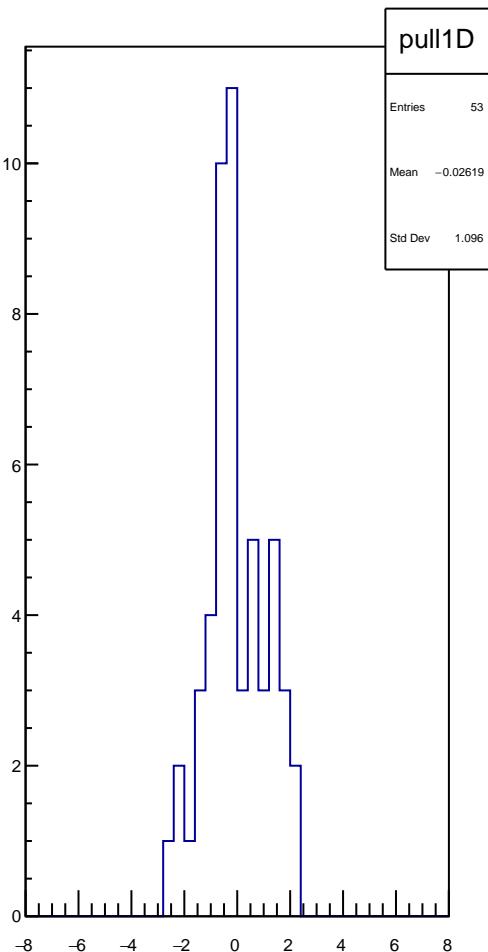
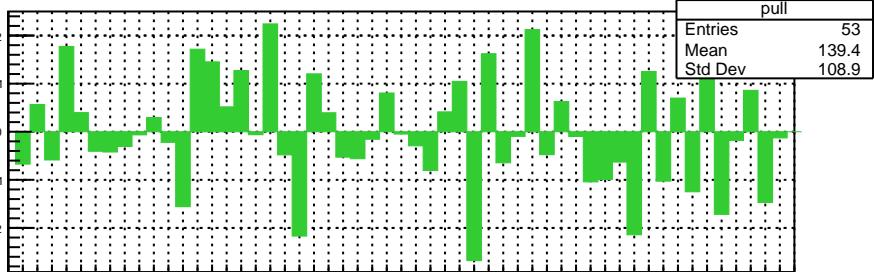
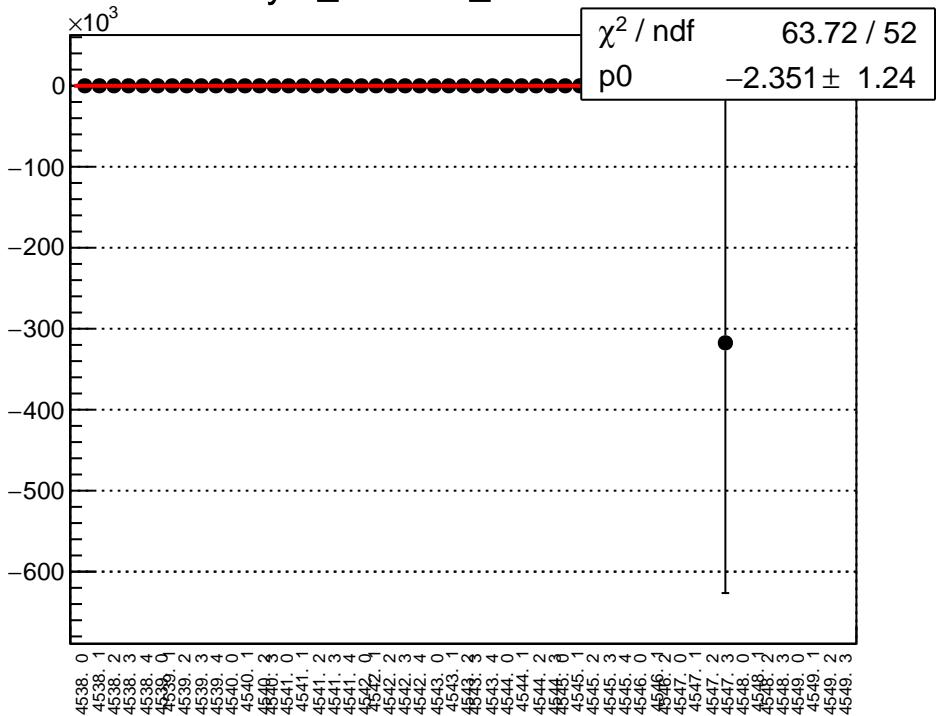
$-104 \pm 217.8$



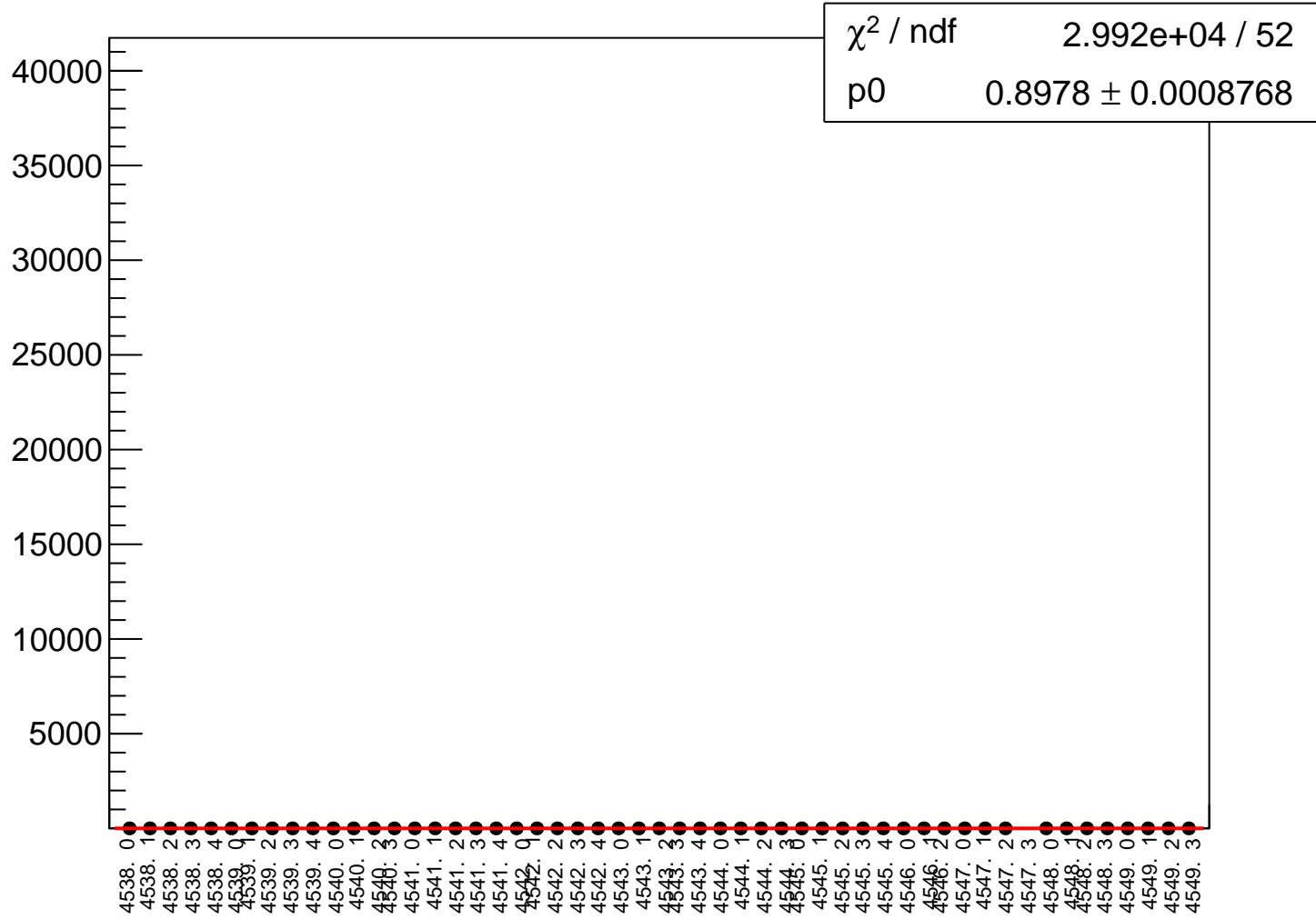
# asym\_cav4cQ\_rms vs run



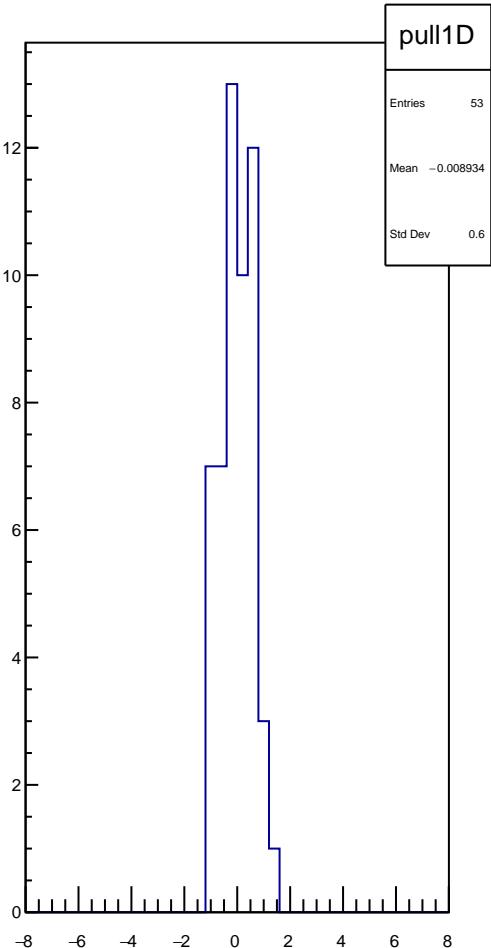
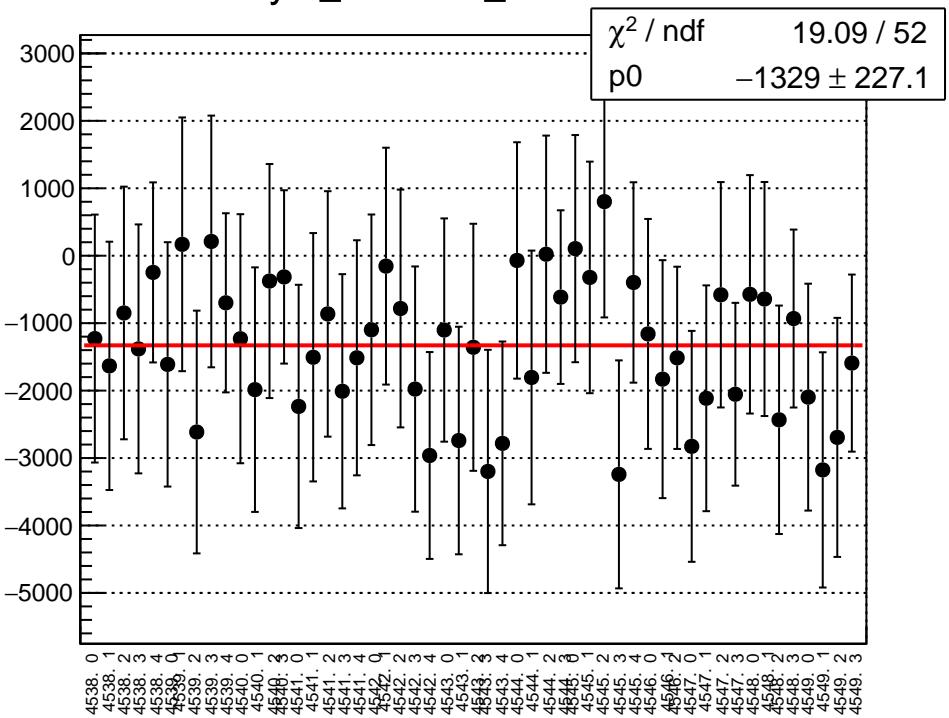
# asym\_cav4dQ\_mean vs run



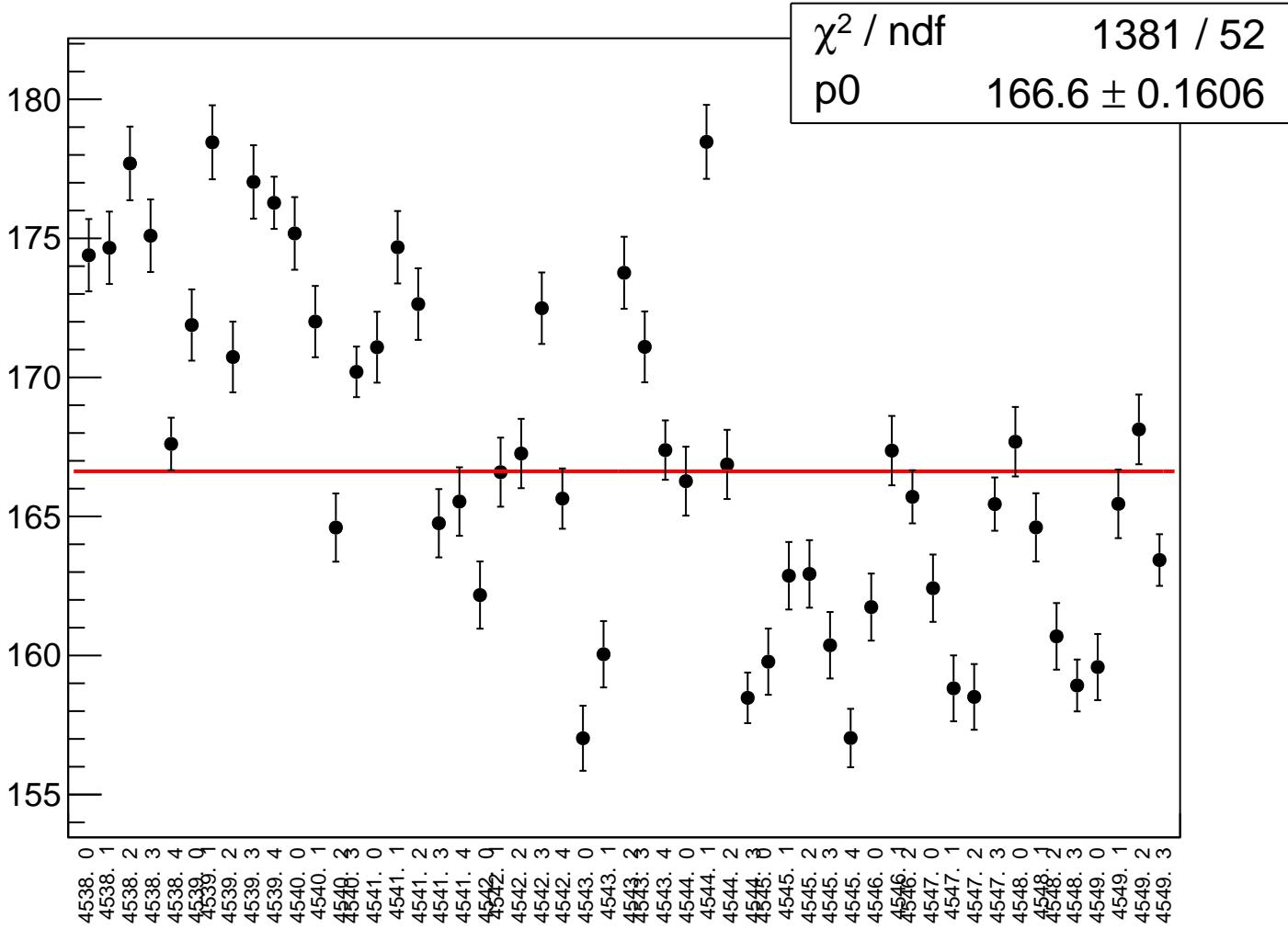
# asym\_cav4dQ\_rms vs run



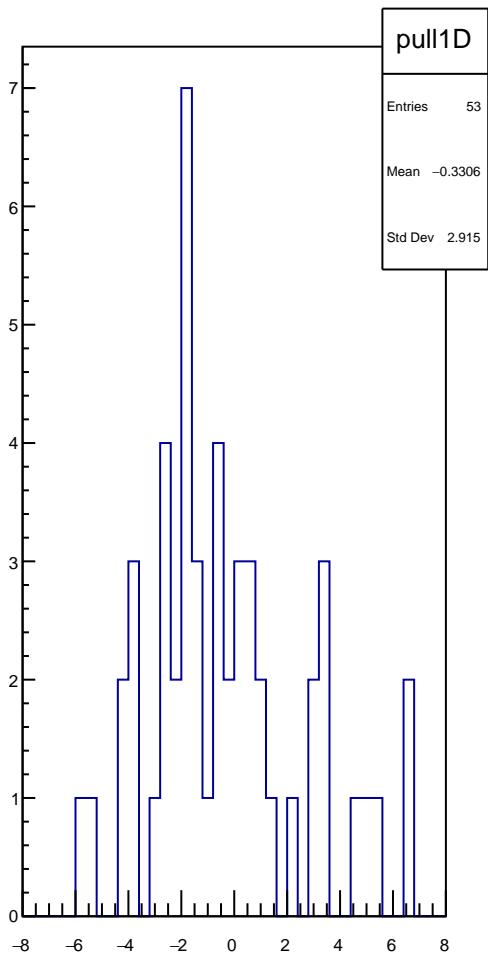
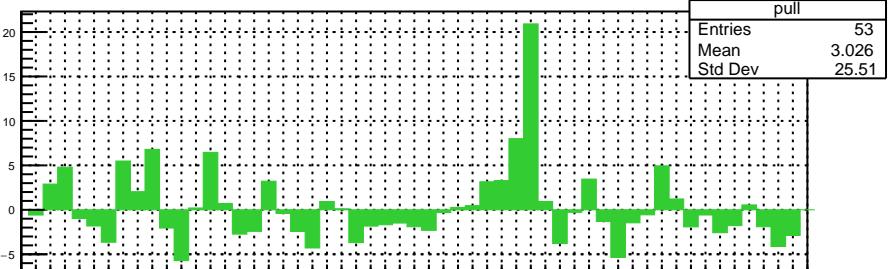
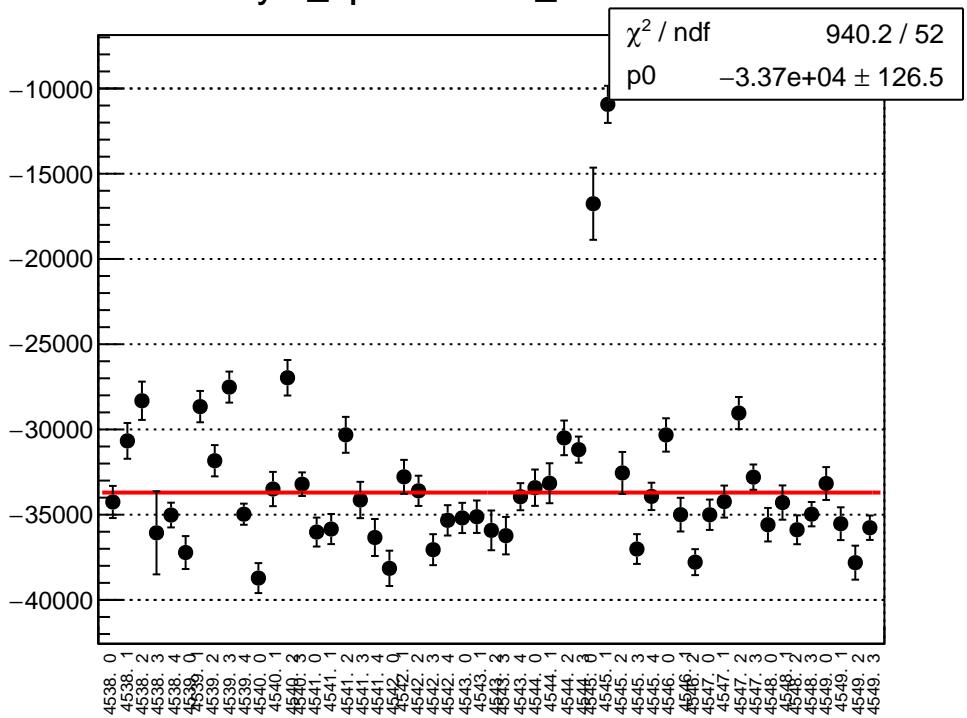
# asym\_bcm0l02\_mean vs run



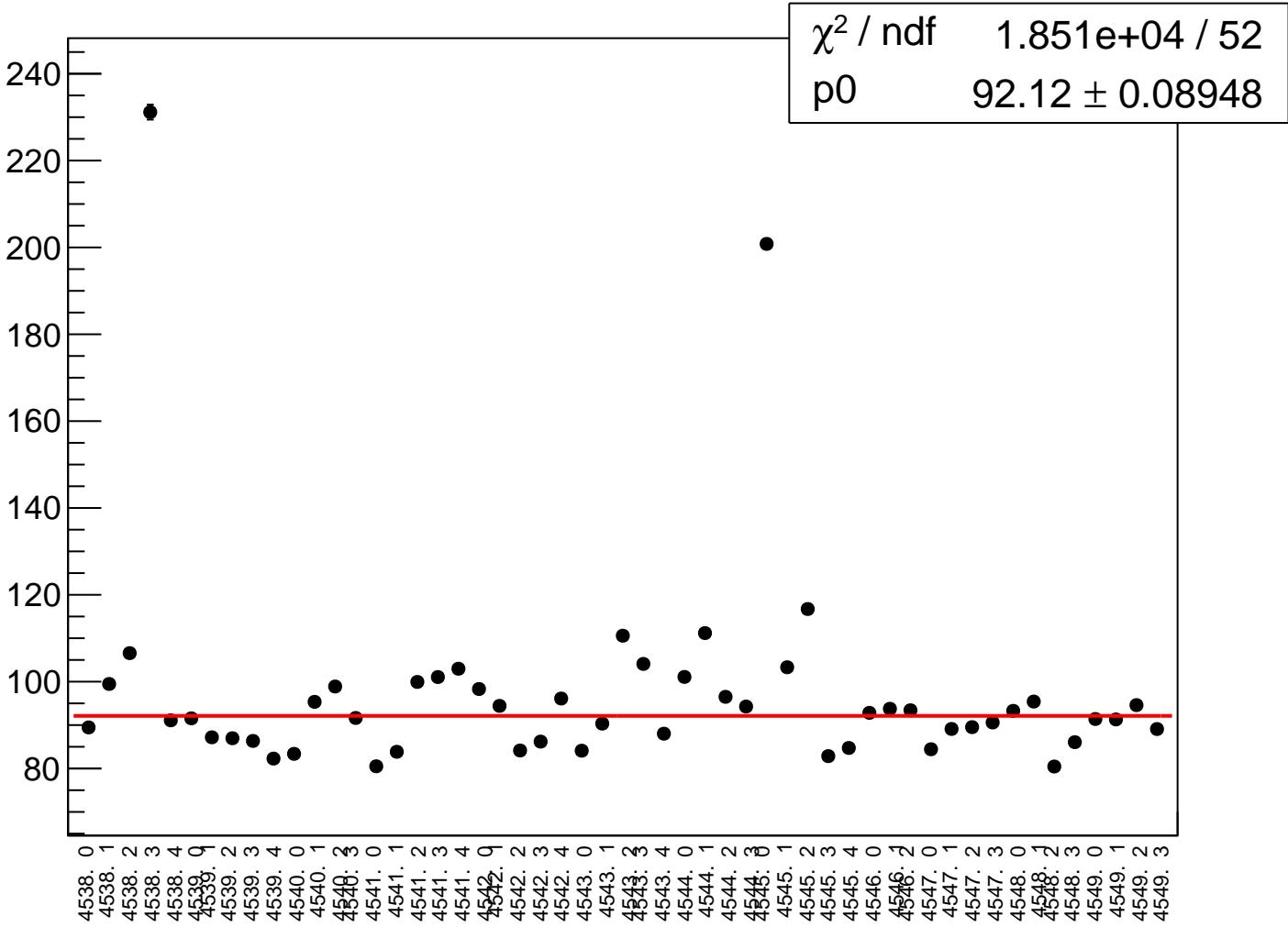
# asym\_bcm0l02\_rms vs run



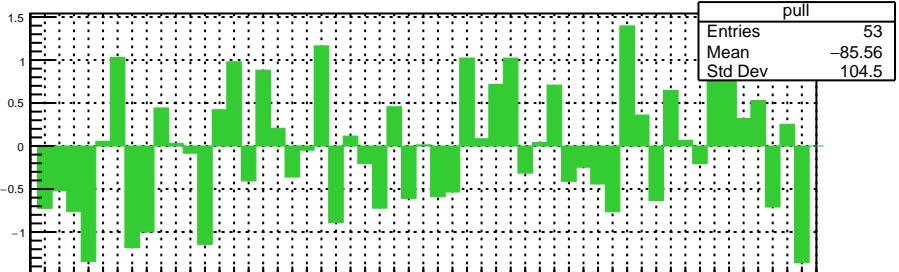
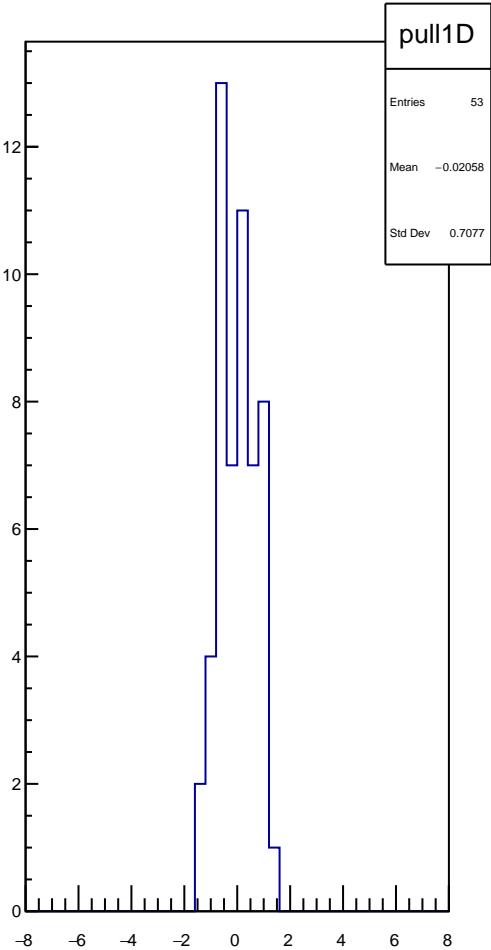
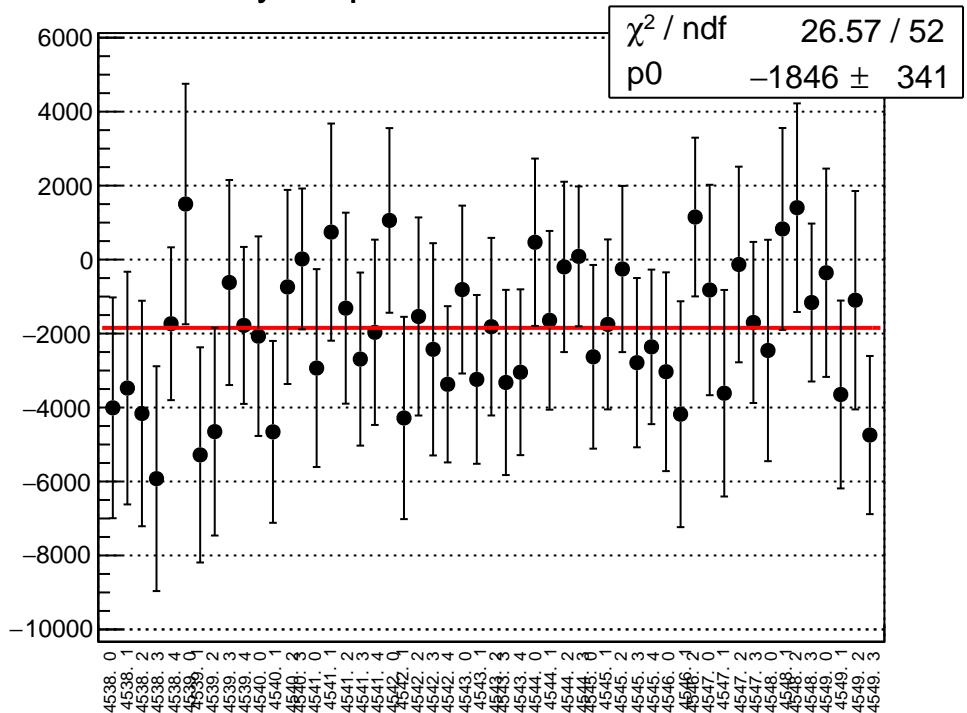
# asym\_bpm2i01WS\_mean vs run



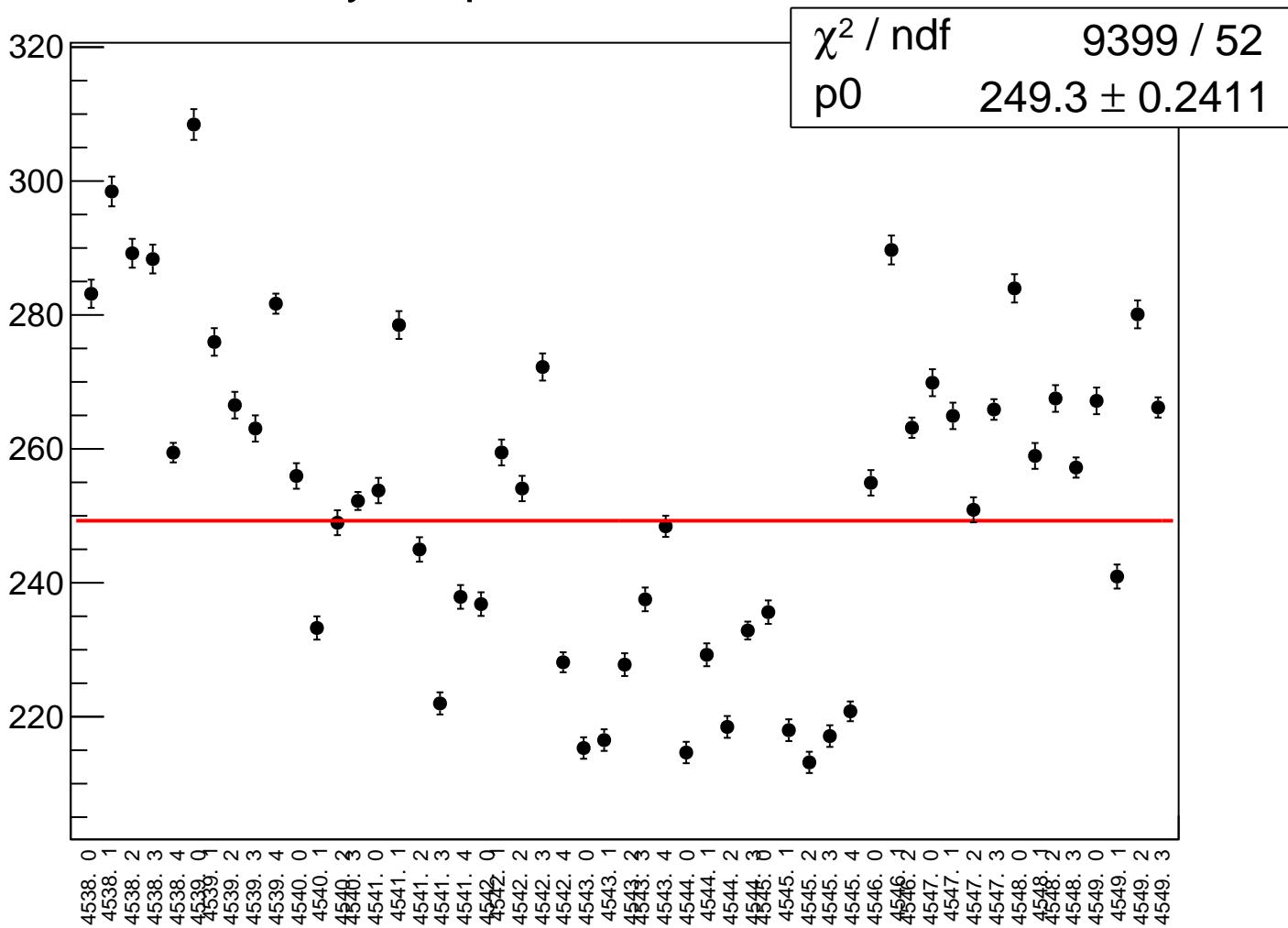
# asym\_bpm2i01WS\_rms vs run



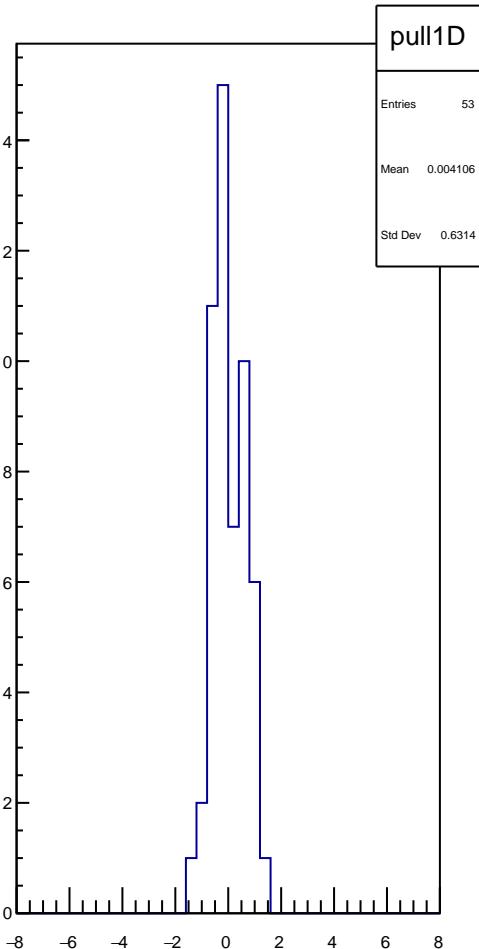
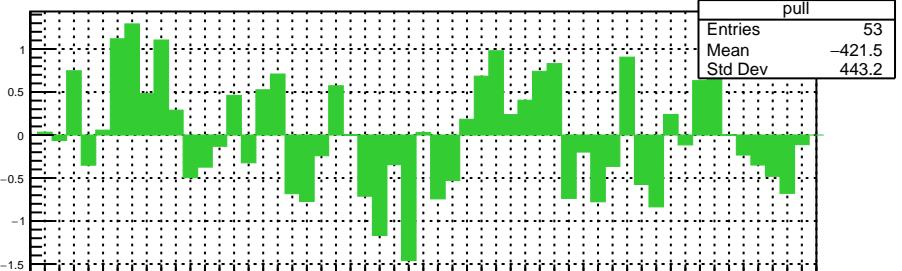
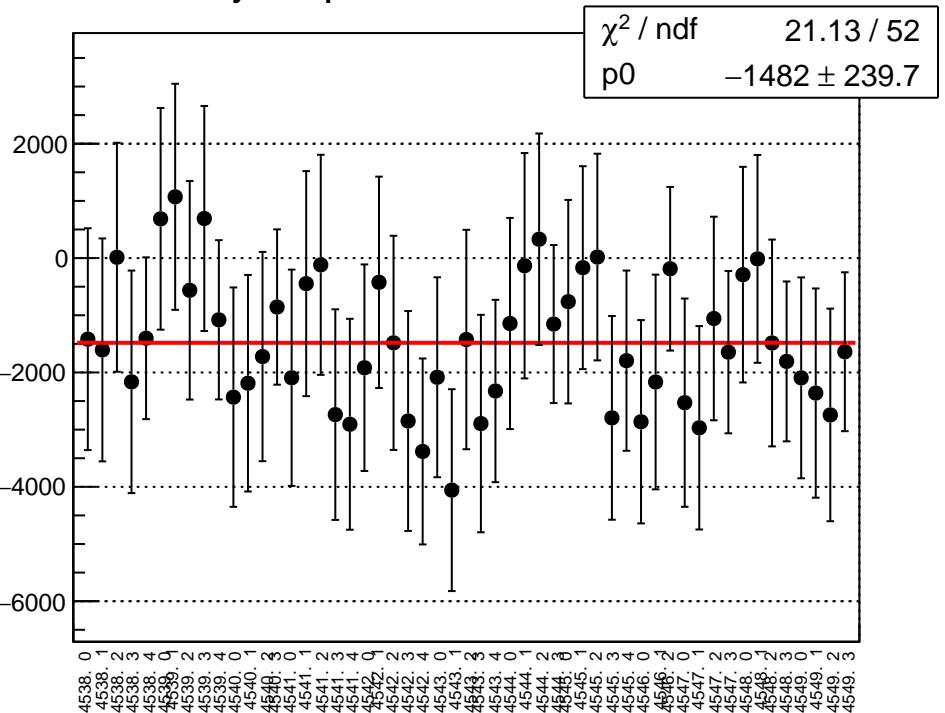
# asym\_bpm0i07WS\_mean vs run



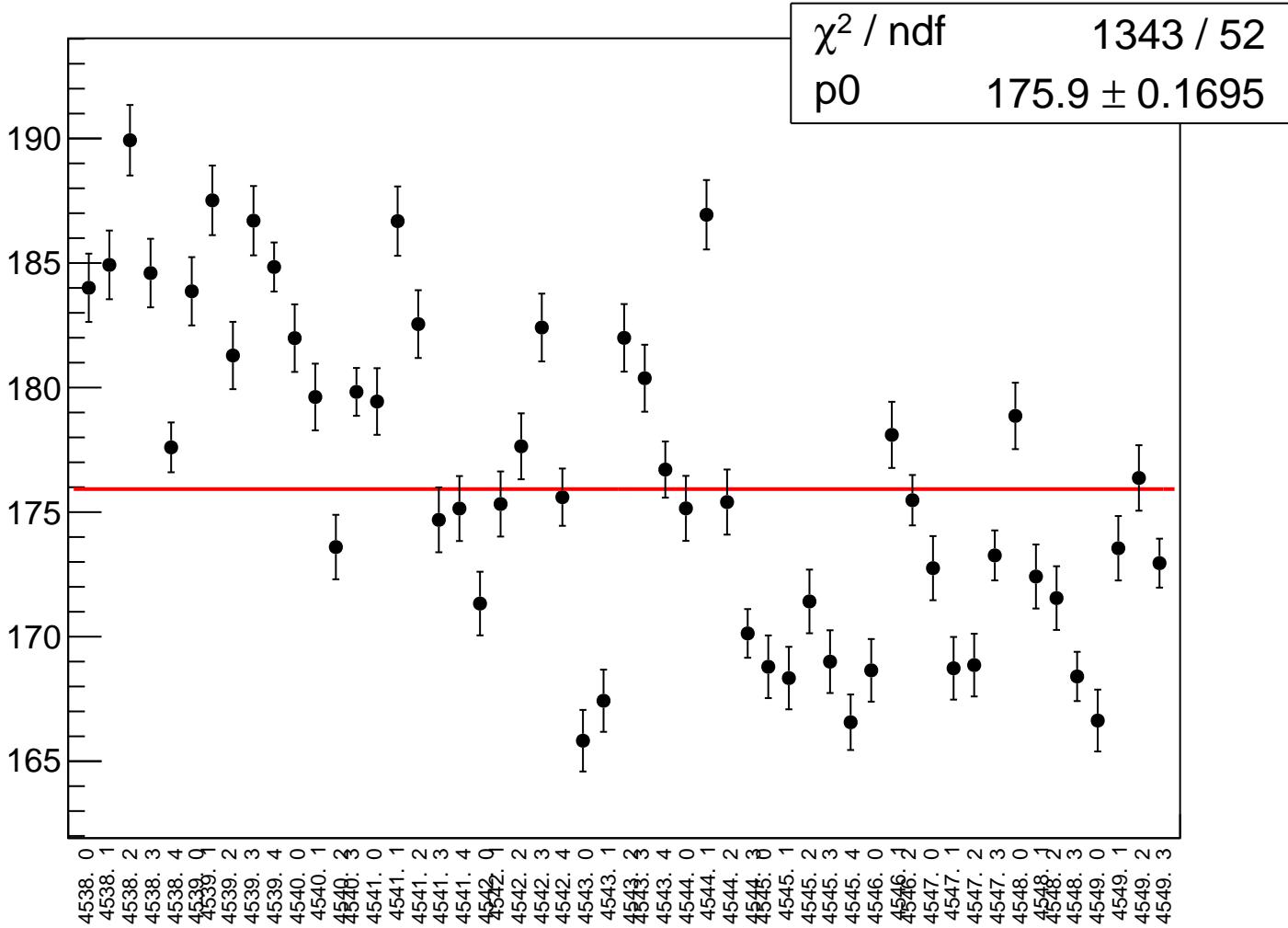
# asym\_bpm0i07WS\_rms vs run



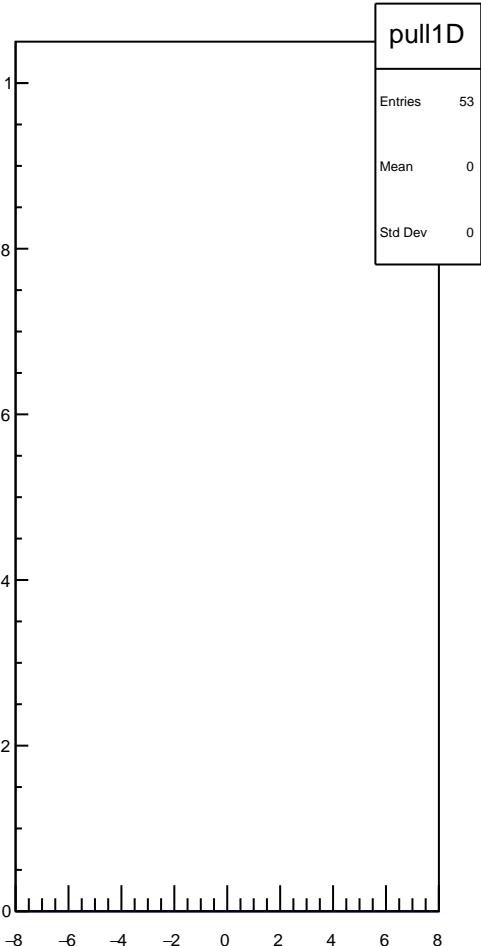
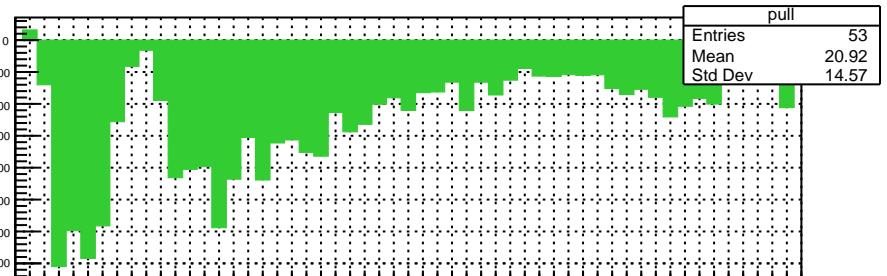
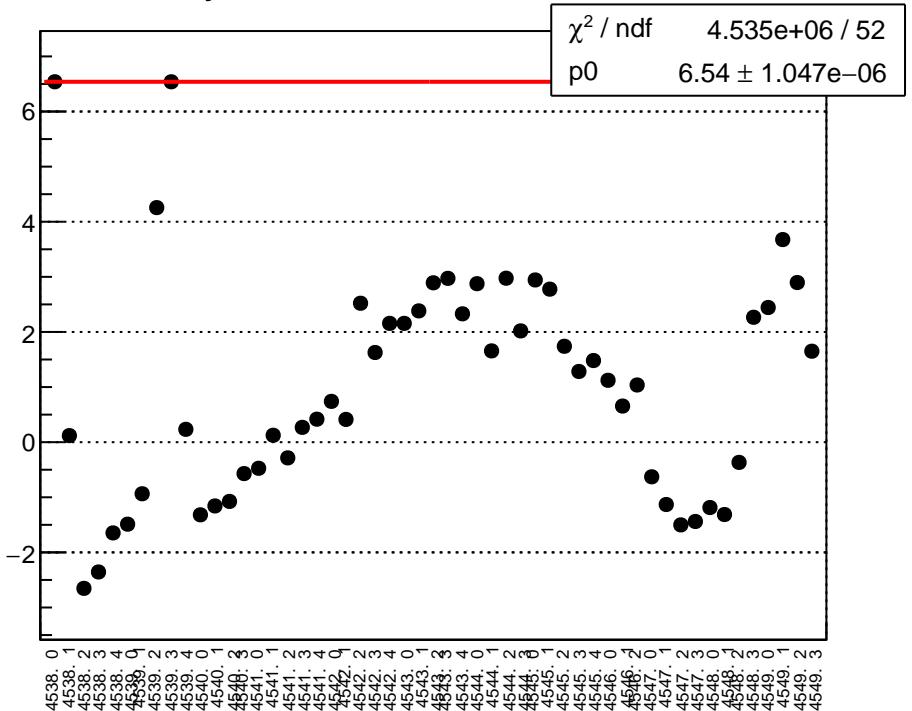
# asym\_bpm0l01WS\_mean vs run



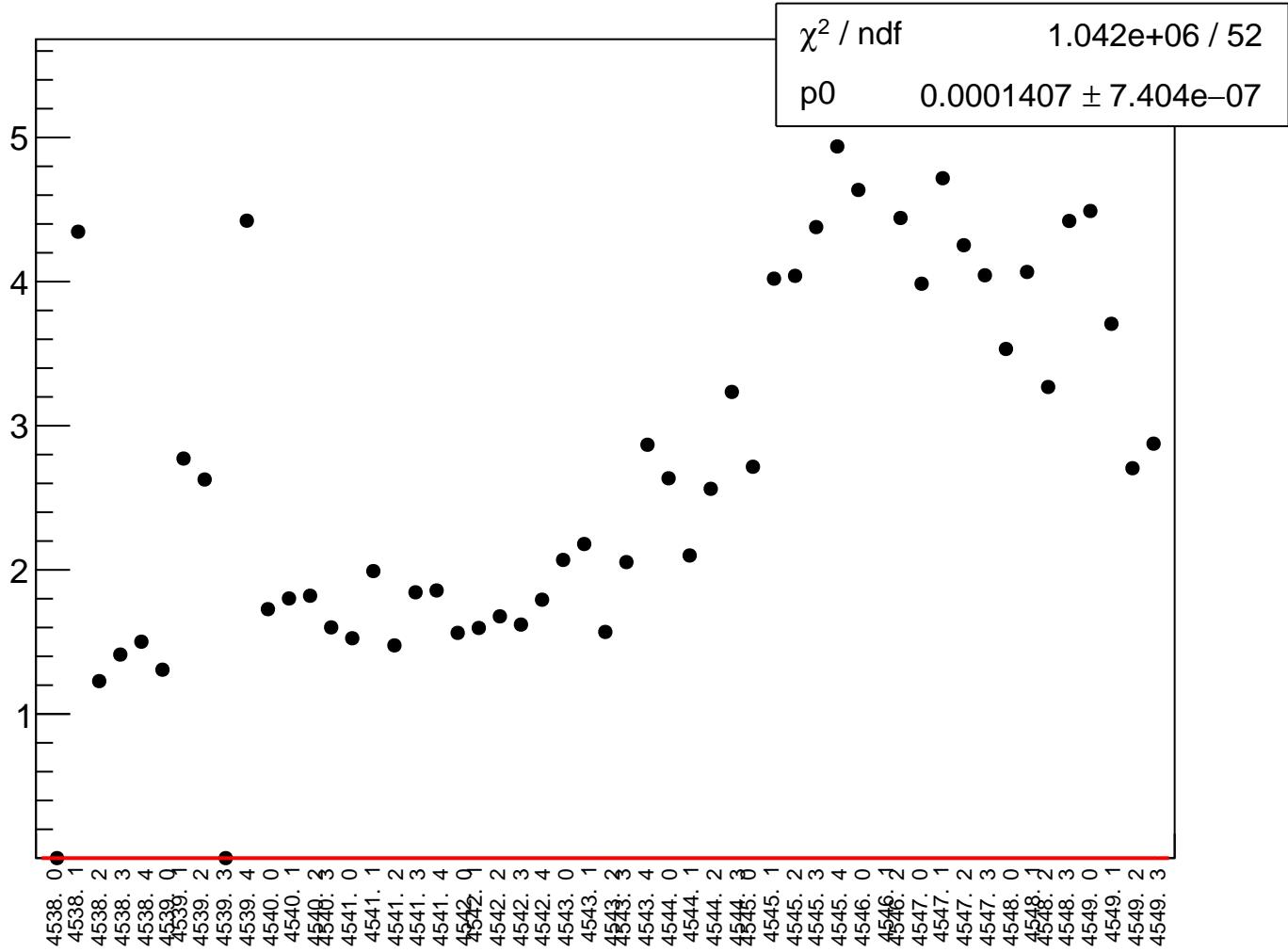
# asym\_bpm0l01WS\_rms vs run



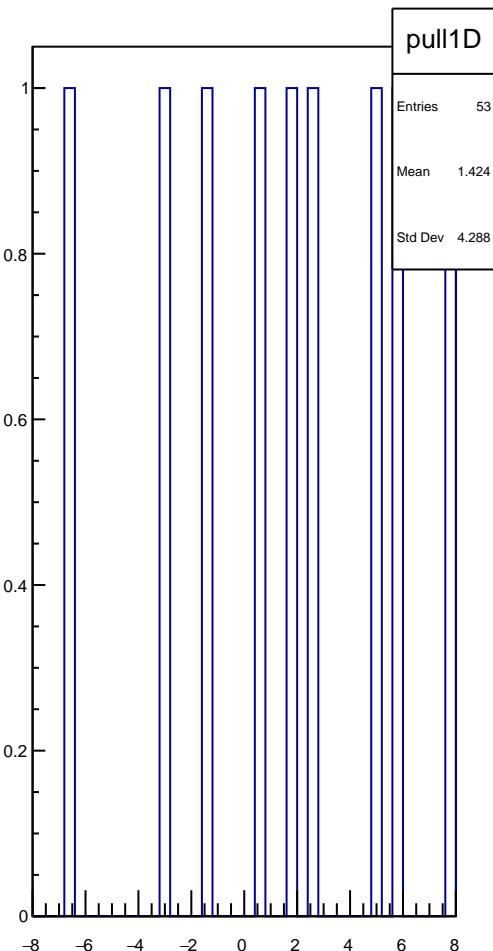
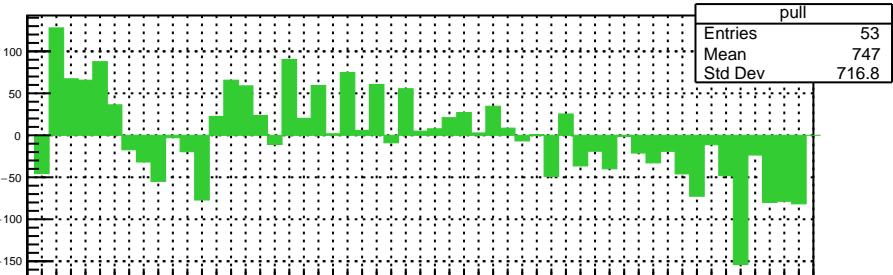
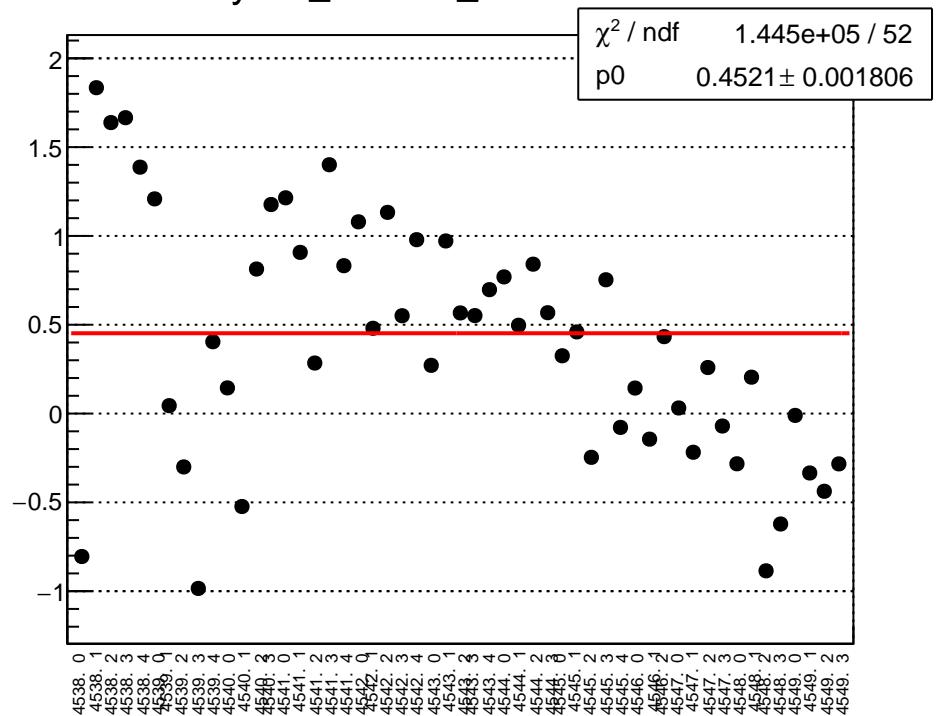
# yield\_cav4bX\_mean vs run



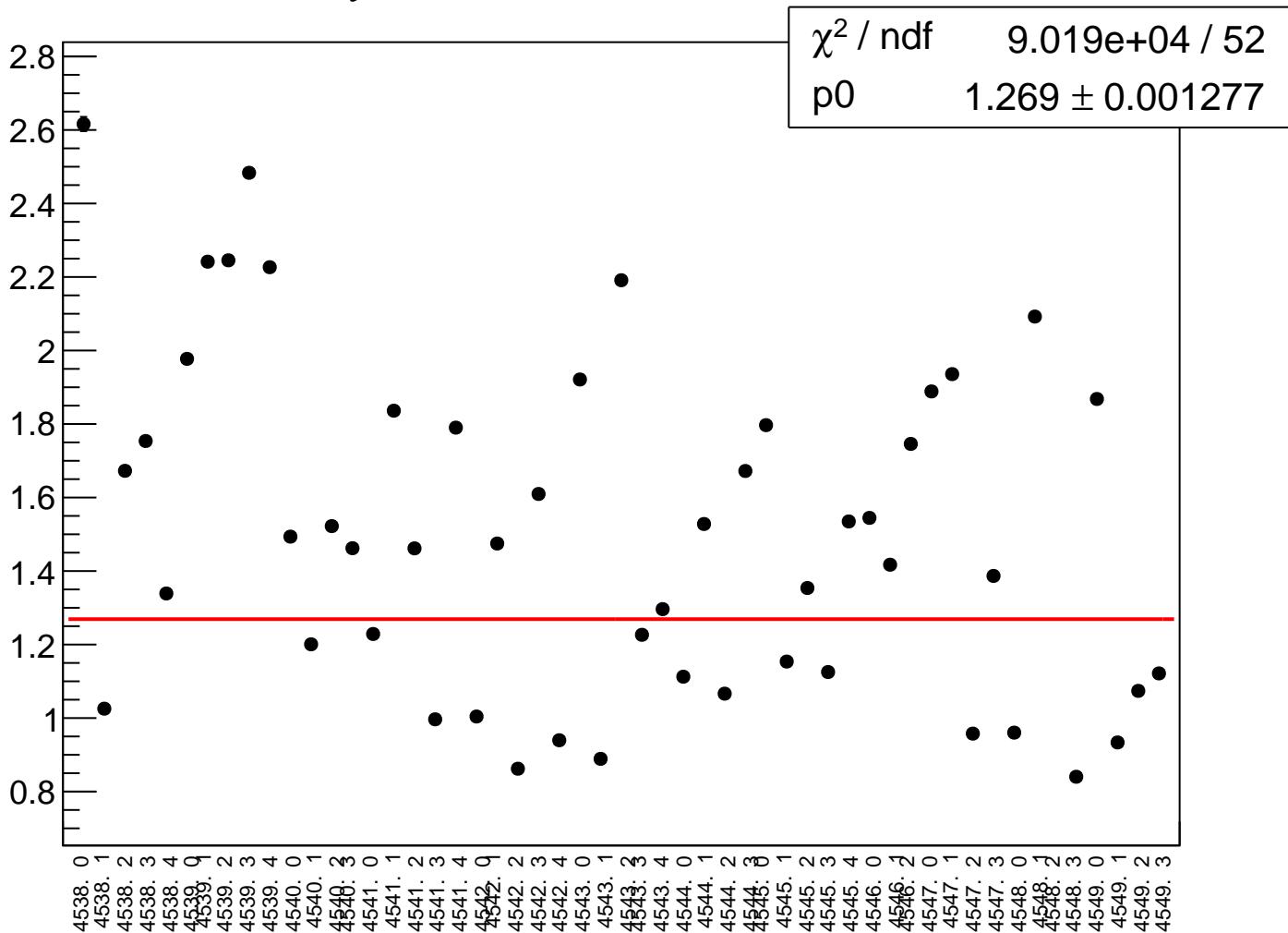
# yield\_cav4bX\_rms vs run



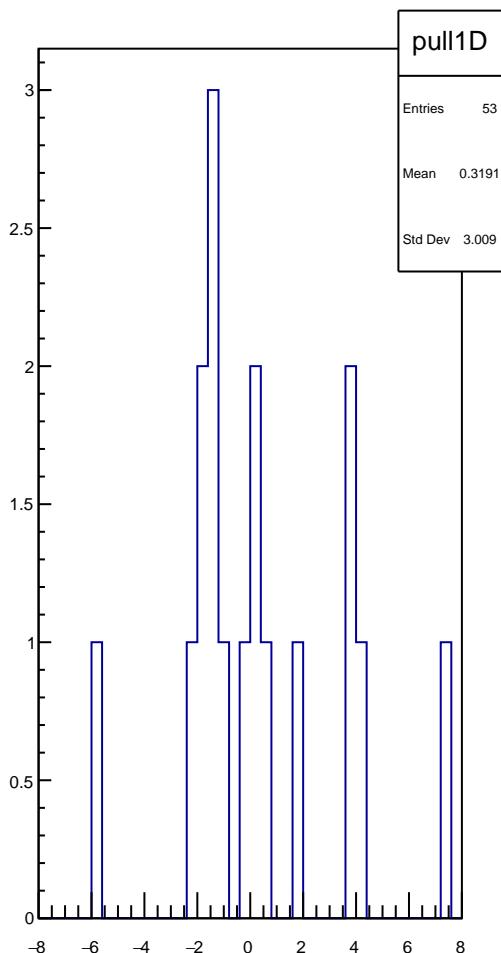
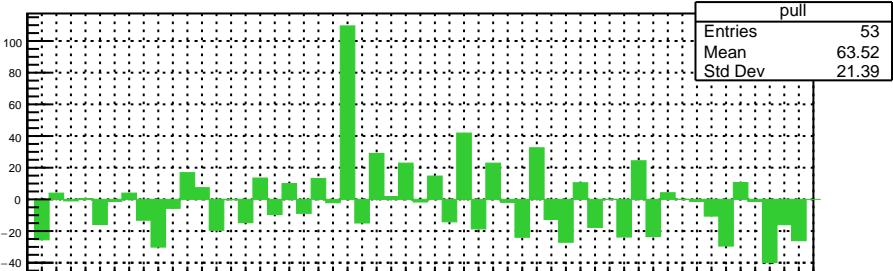
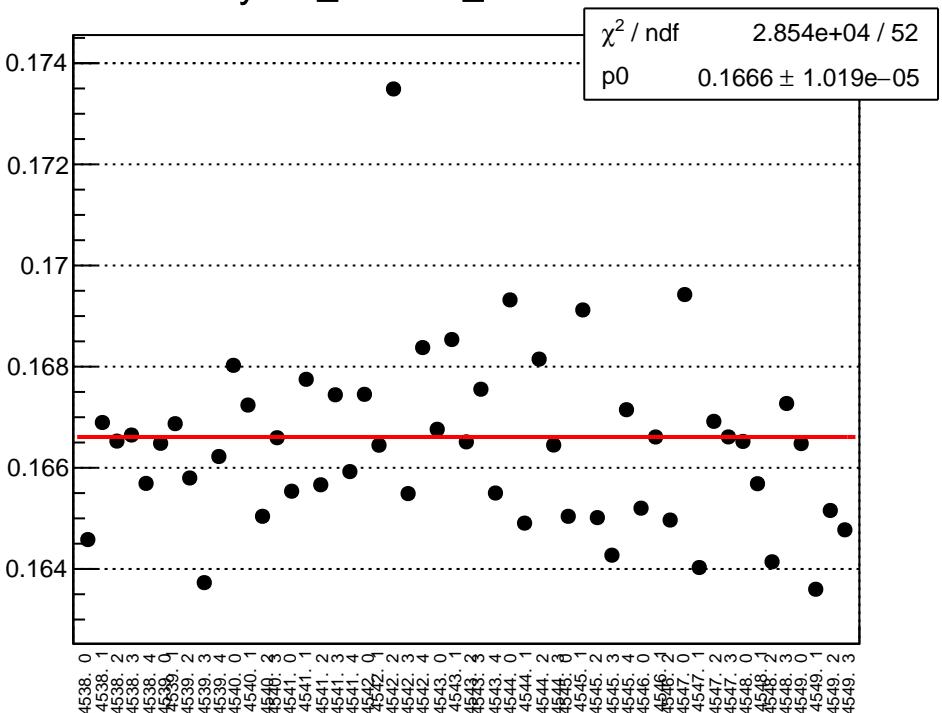
# yield\_cav4bY\_mean vs run



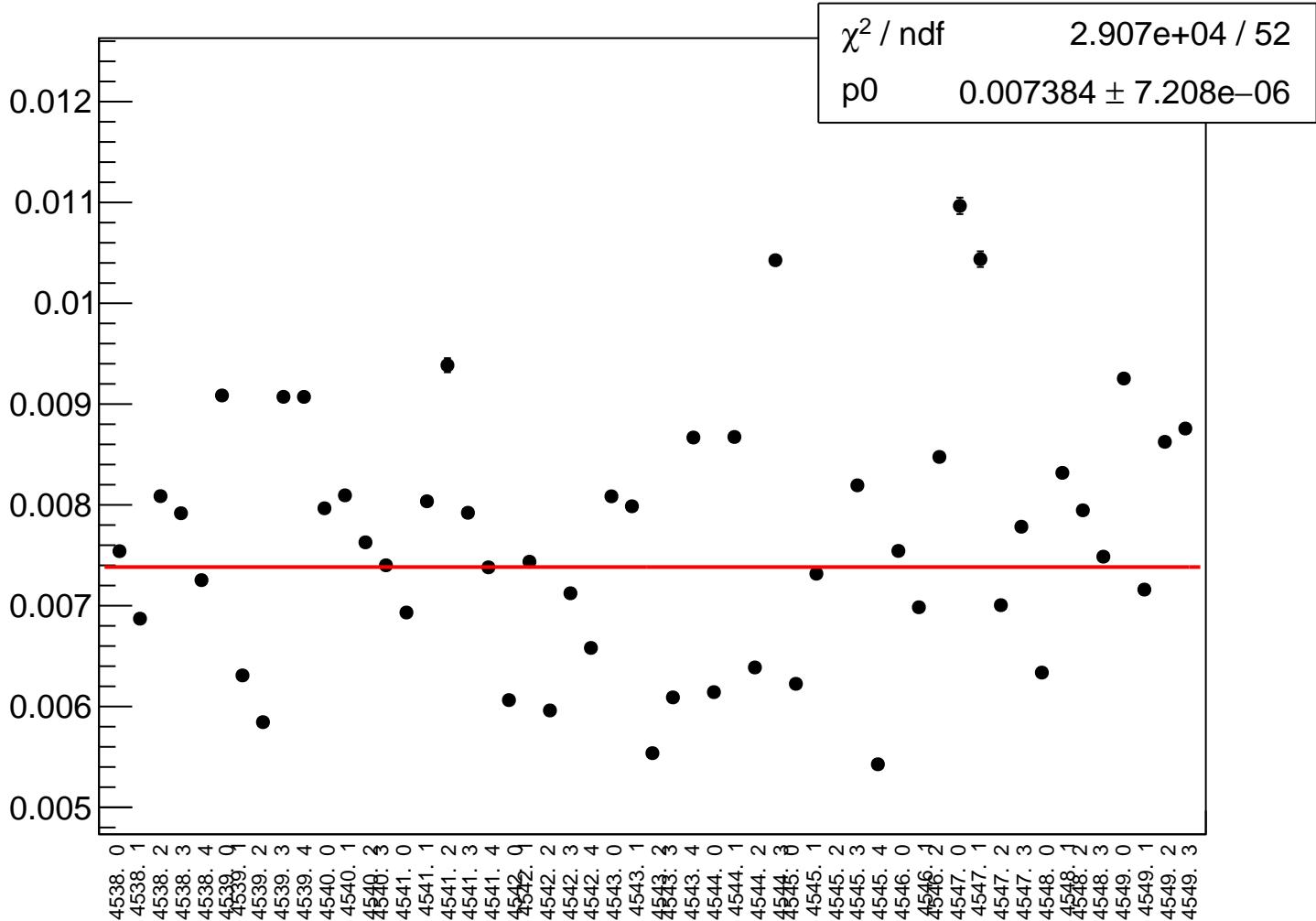
# yield\_cav4bY\_rms vs run



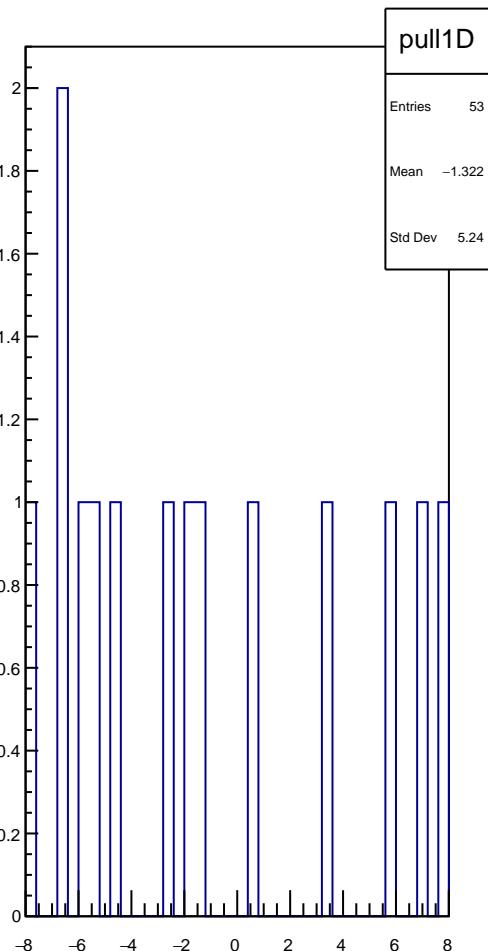
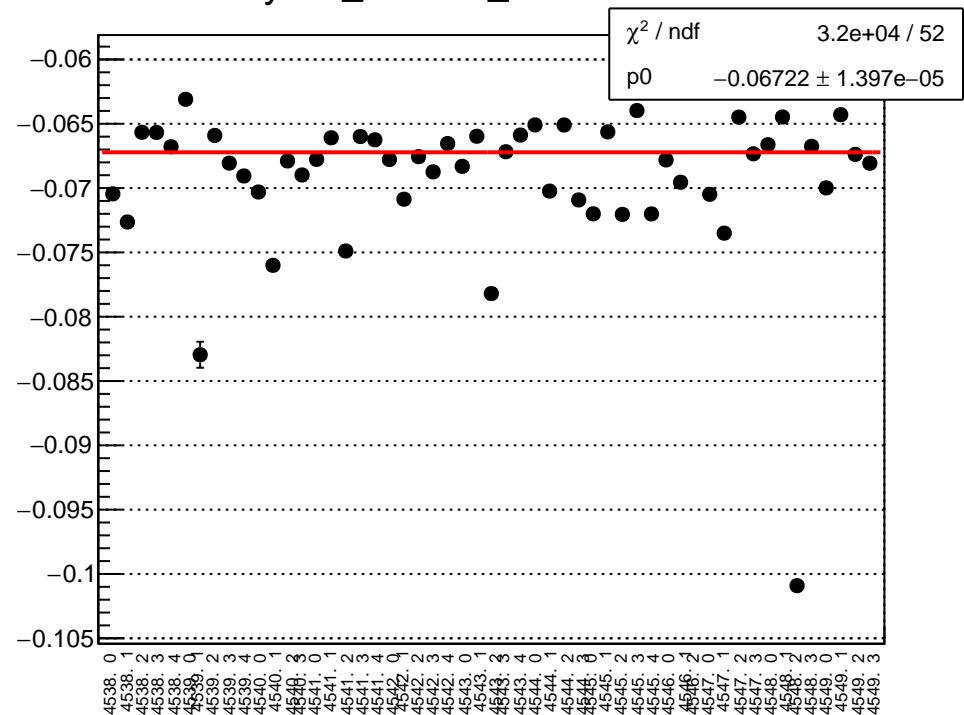
# yield\_cav4cX\_mean vs run



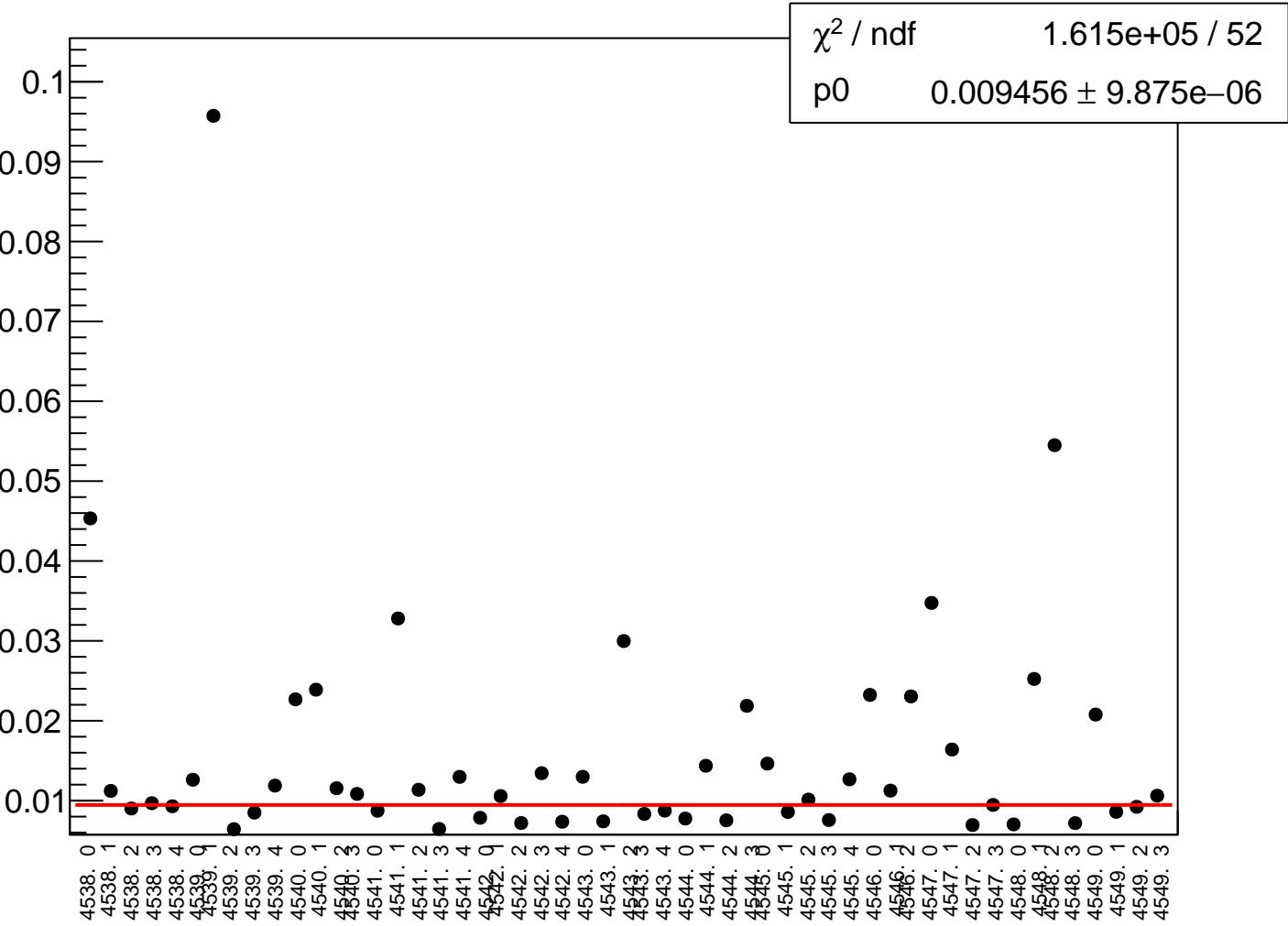
# yield\_cav4cX\_rms vs run



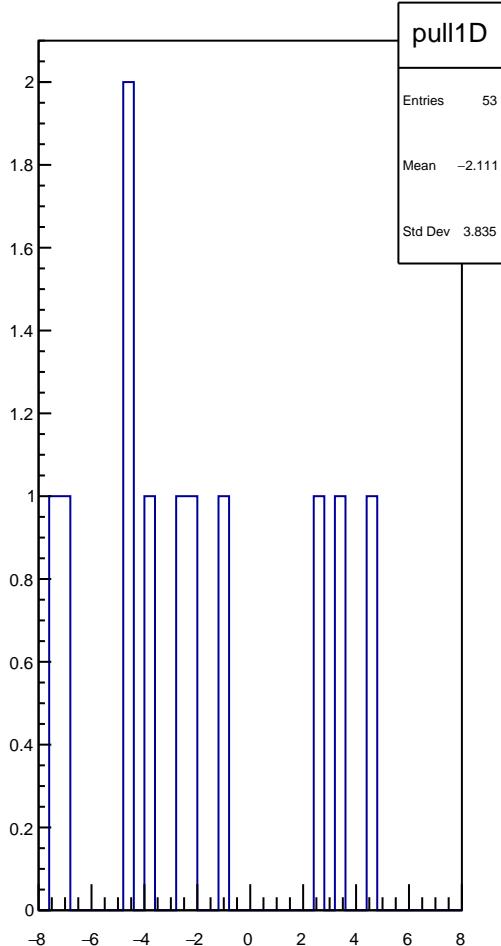
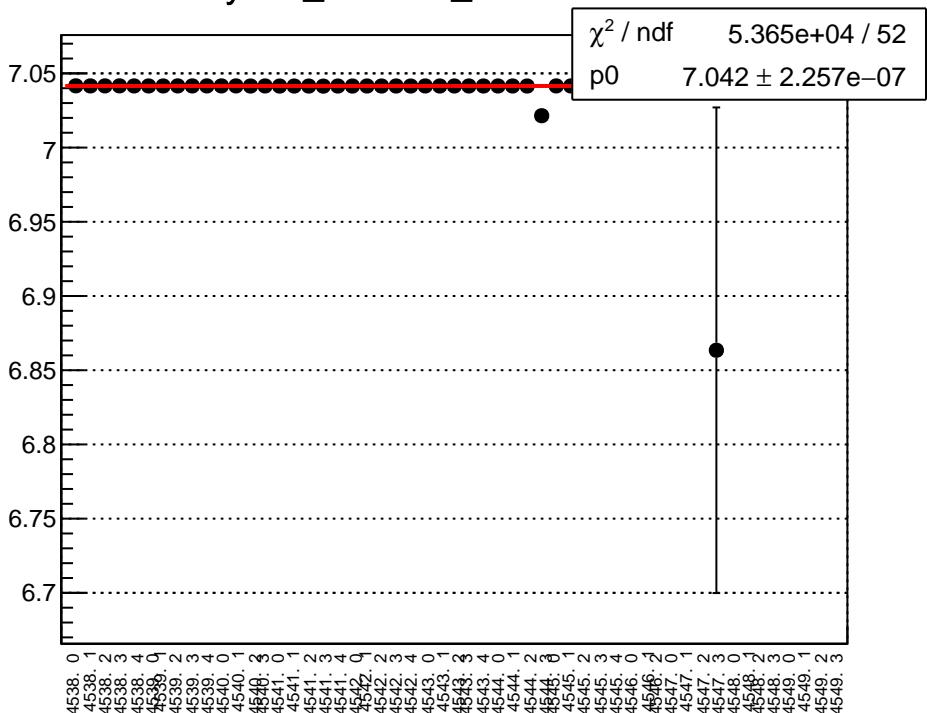
# yield\_cav4cY\_mean vs run



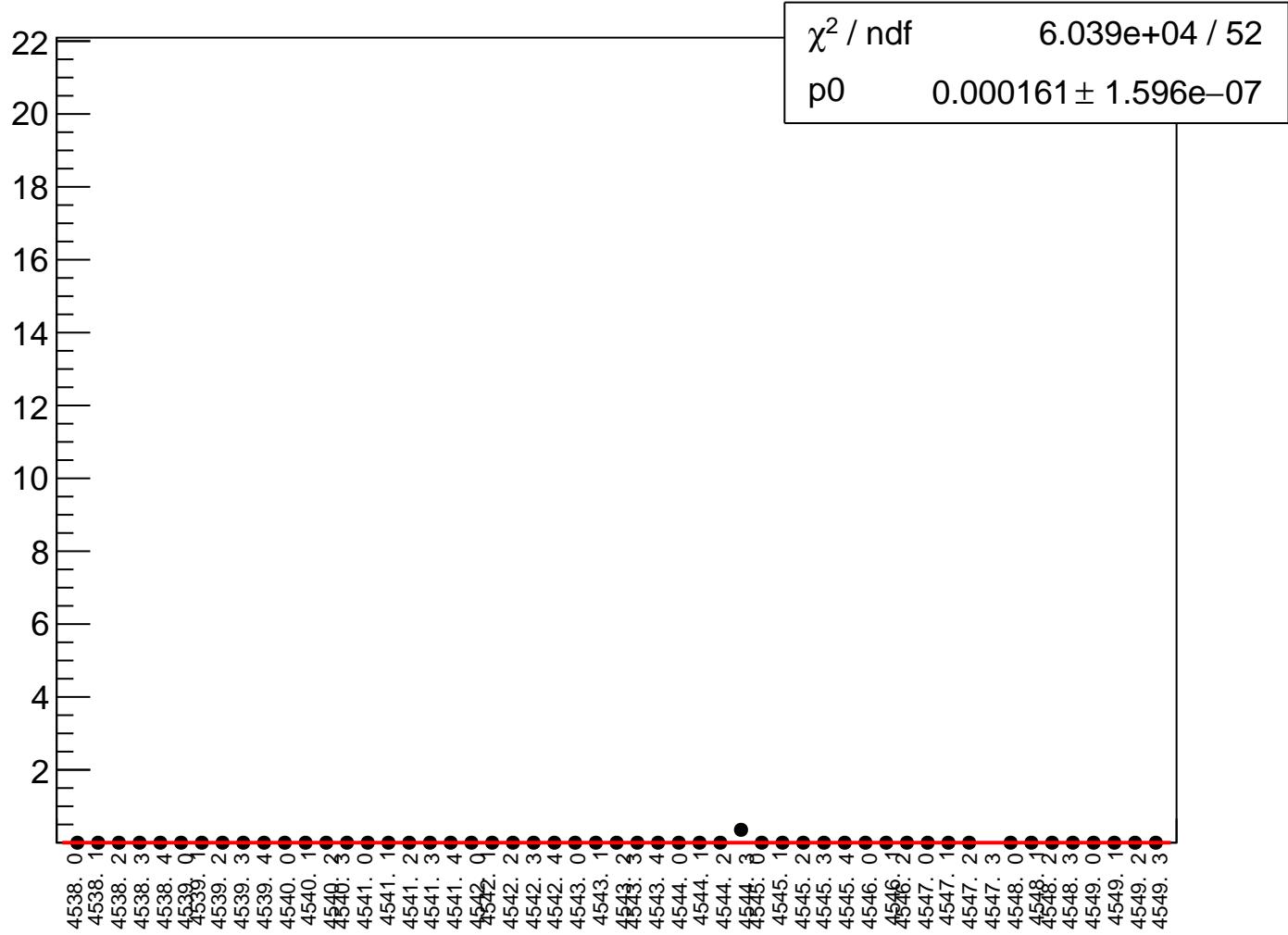
# yield\_cav4cY\_rms vs run



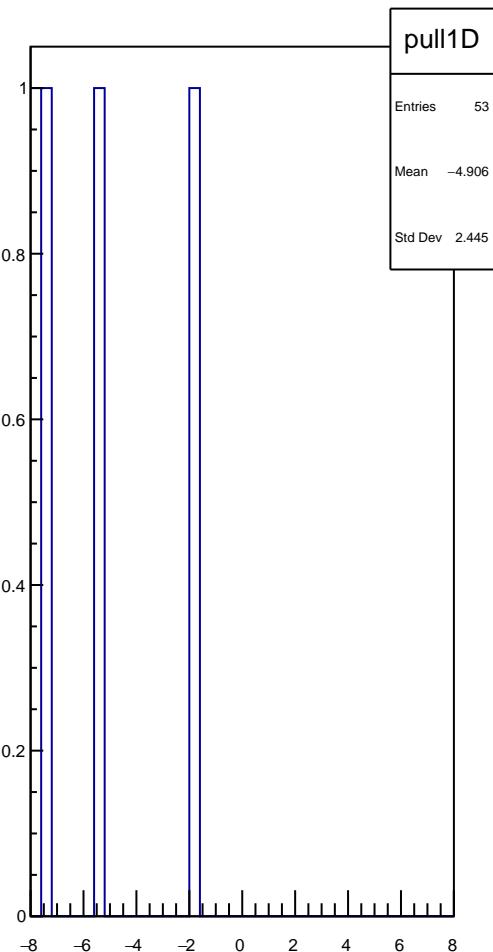
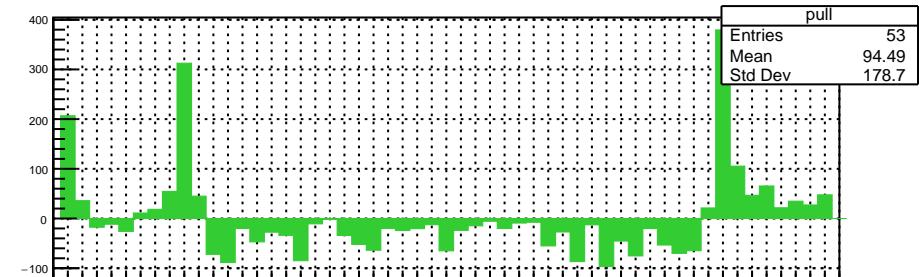
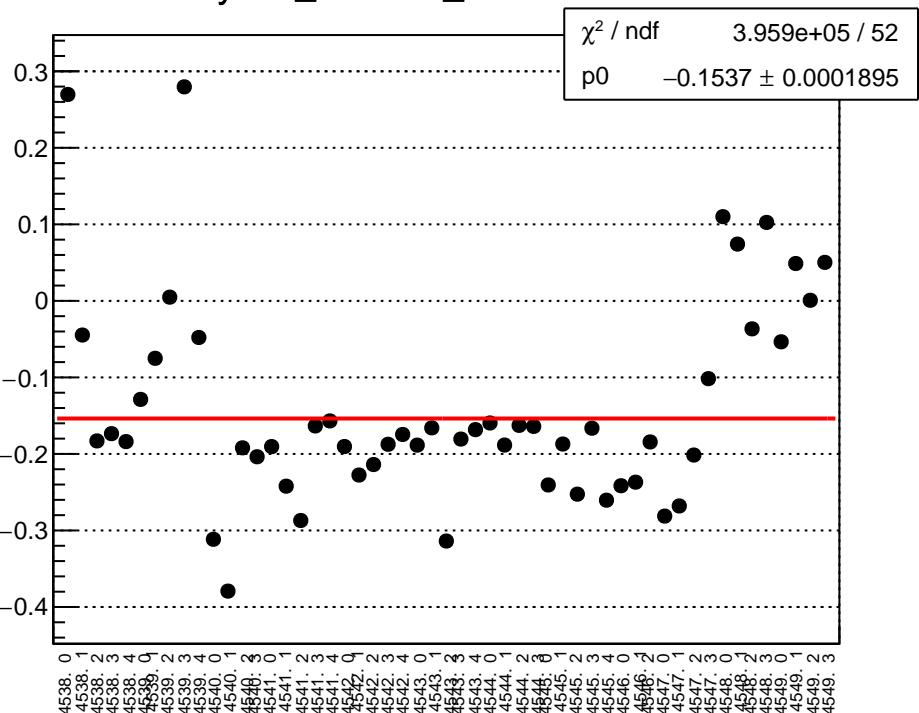
# yield\_cav4dX\_mean vs run



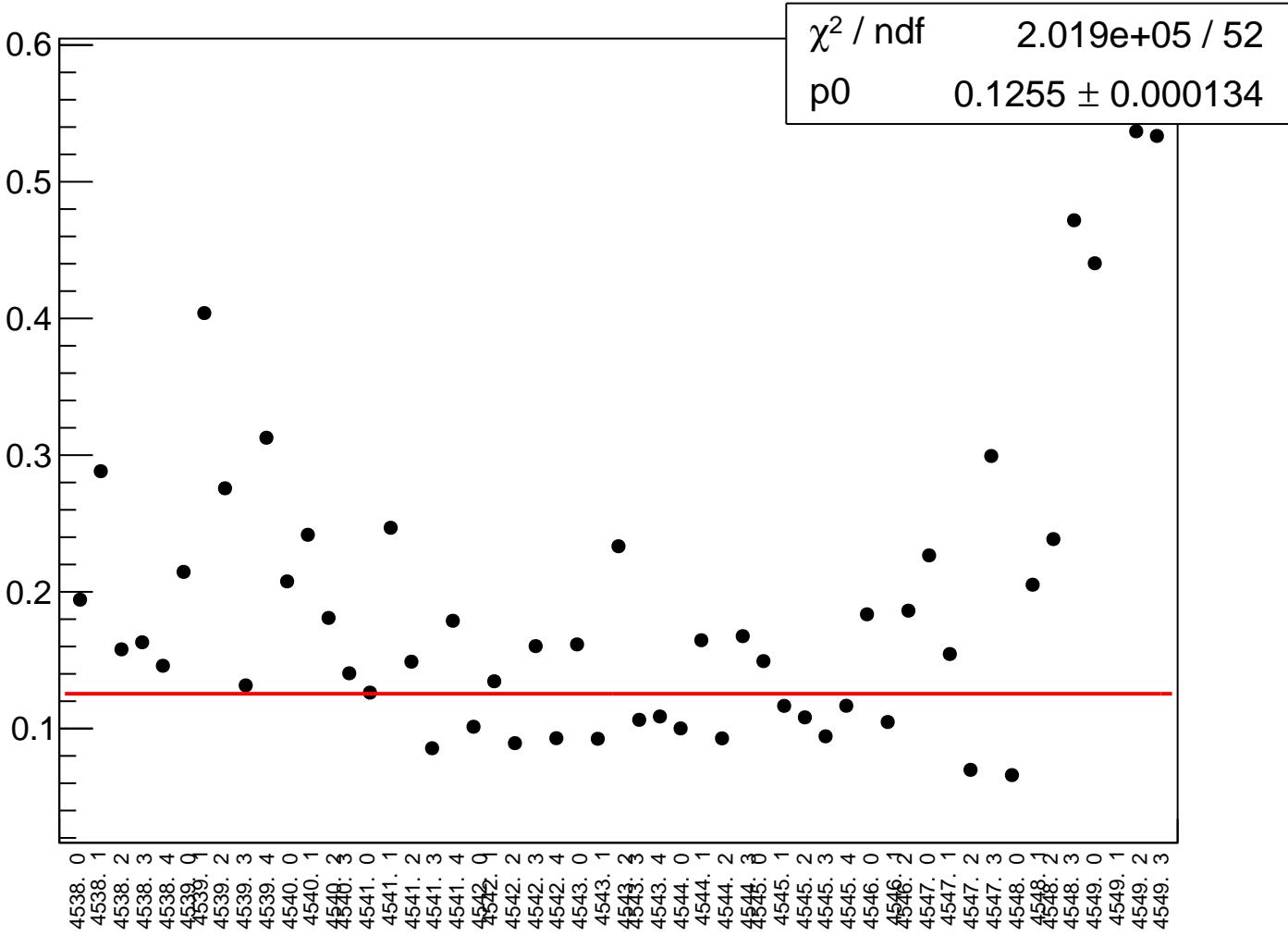
# yield\_cav4dX\_rms vs run



# yield\_cav4dY\_mean vs run

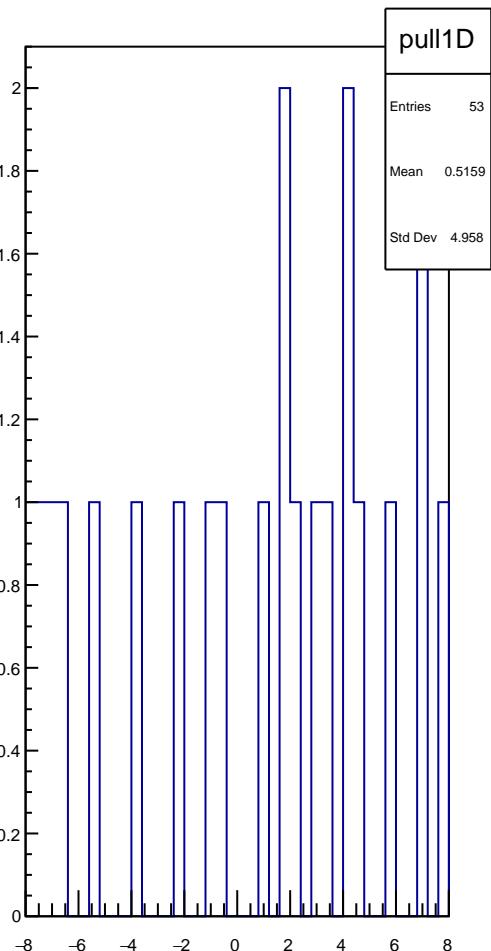
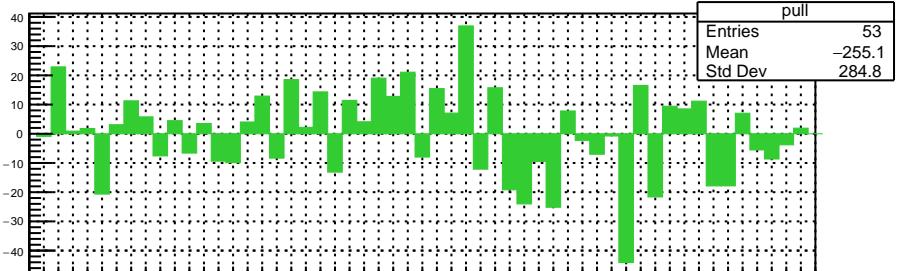
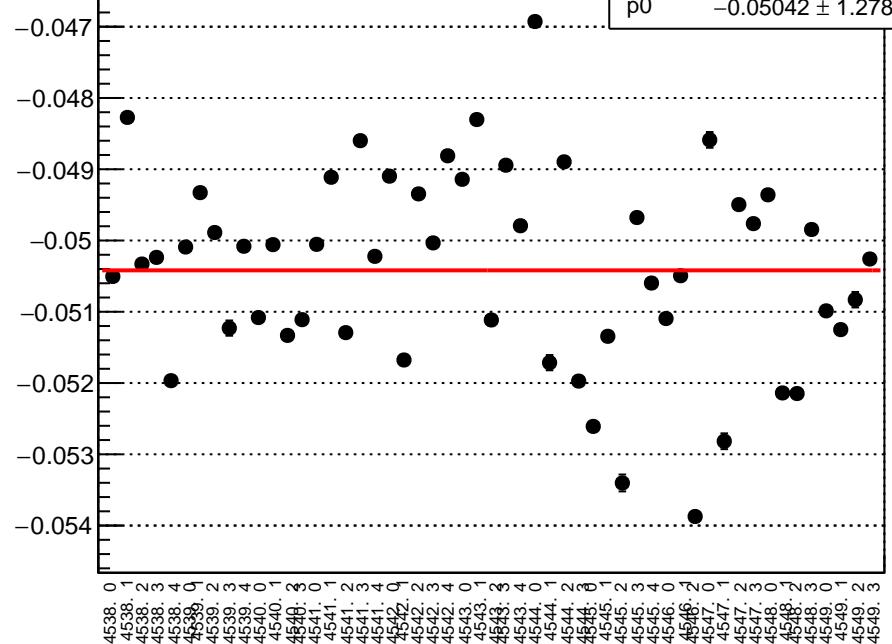


# yield\_cav4dY\_rms vs run

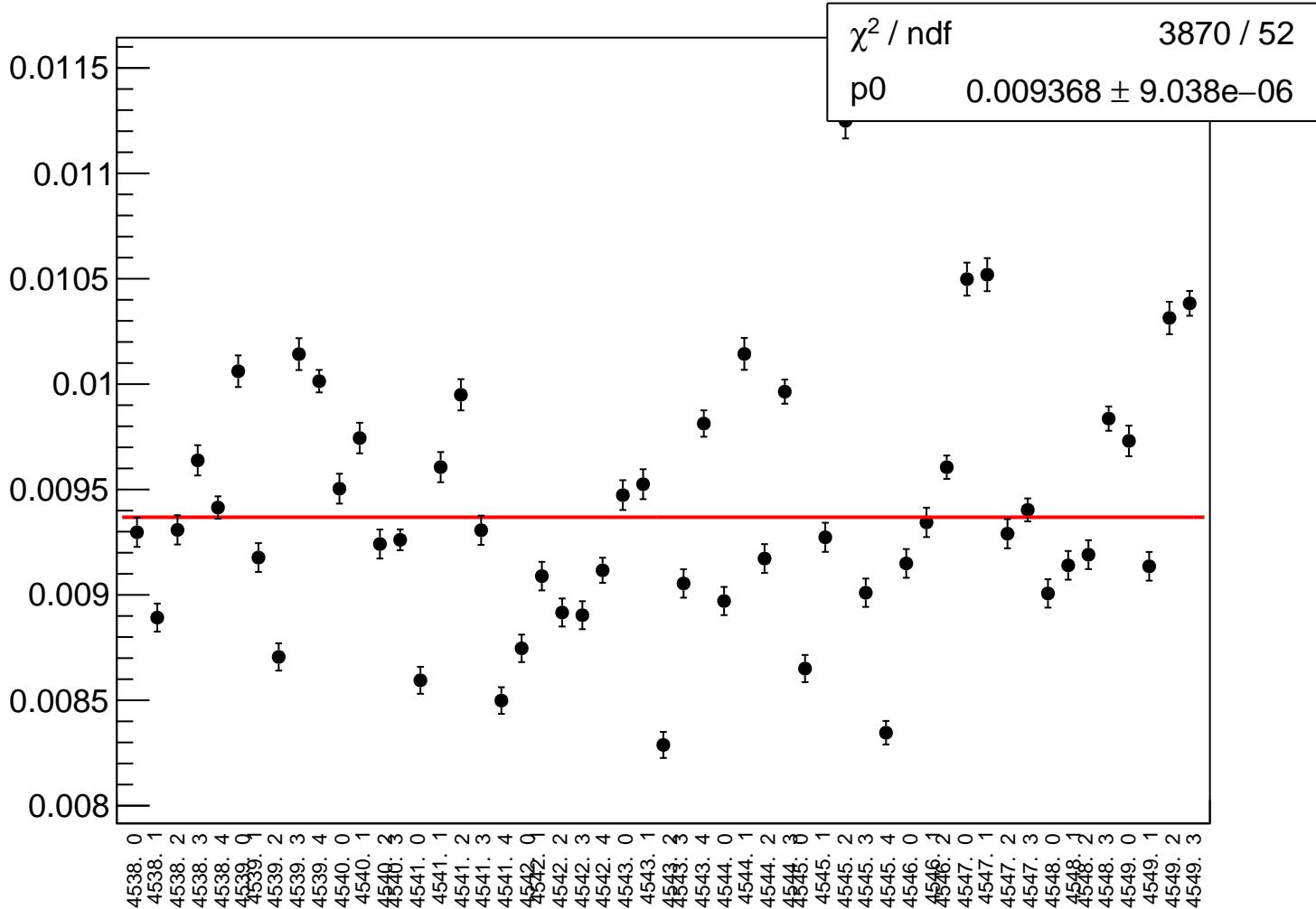


# yield\_bpm4aX\_mean vs run

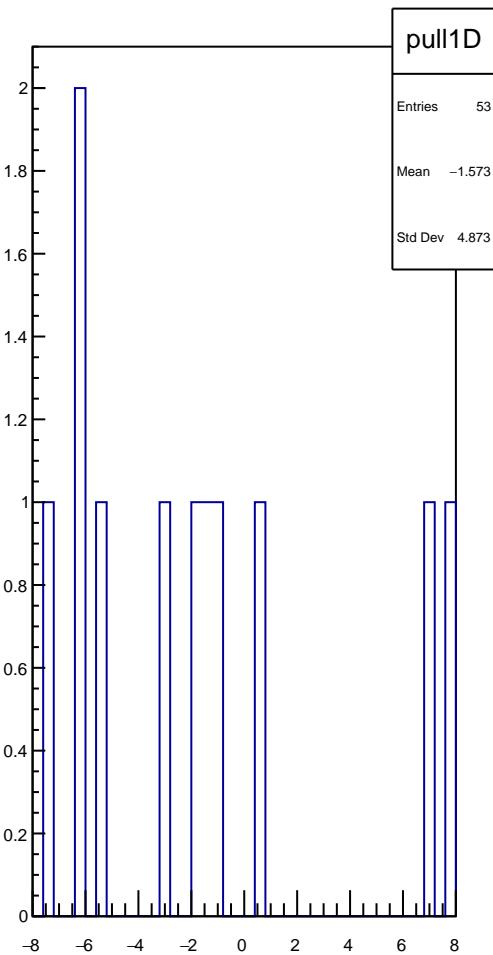
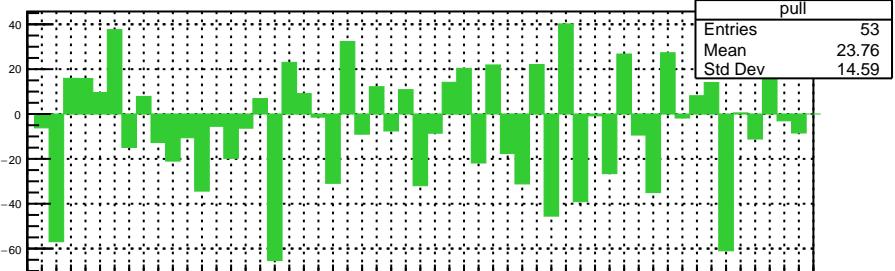
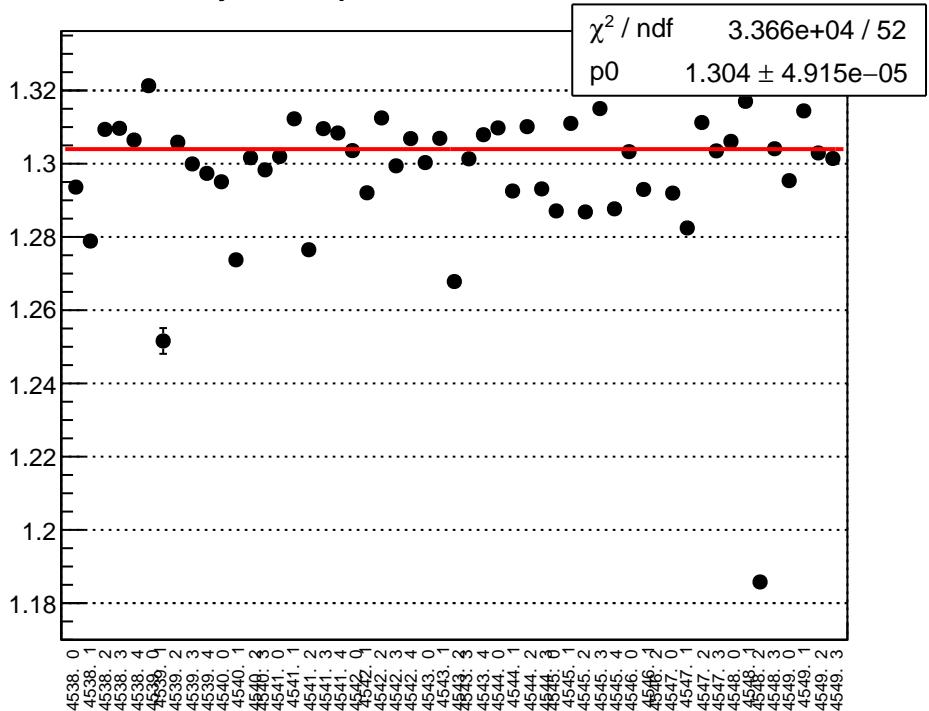
$\chi^2 / \text{ndf}$  1.122e+04 / 52  
 p0  $-0.05042 \pm 1.278\text{e}{-}05$



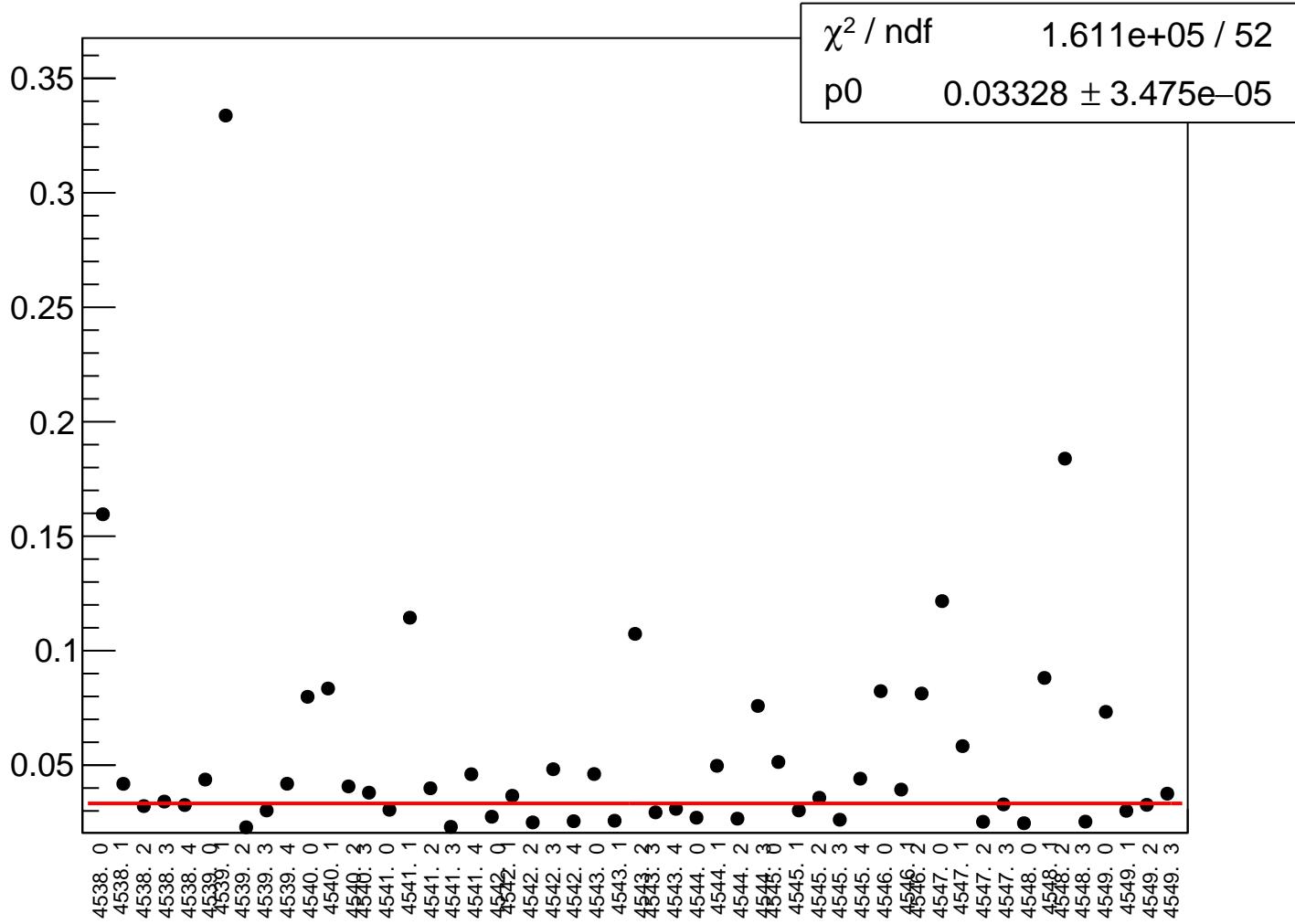
# yield\_bpm4aX\_rms vs run



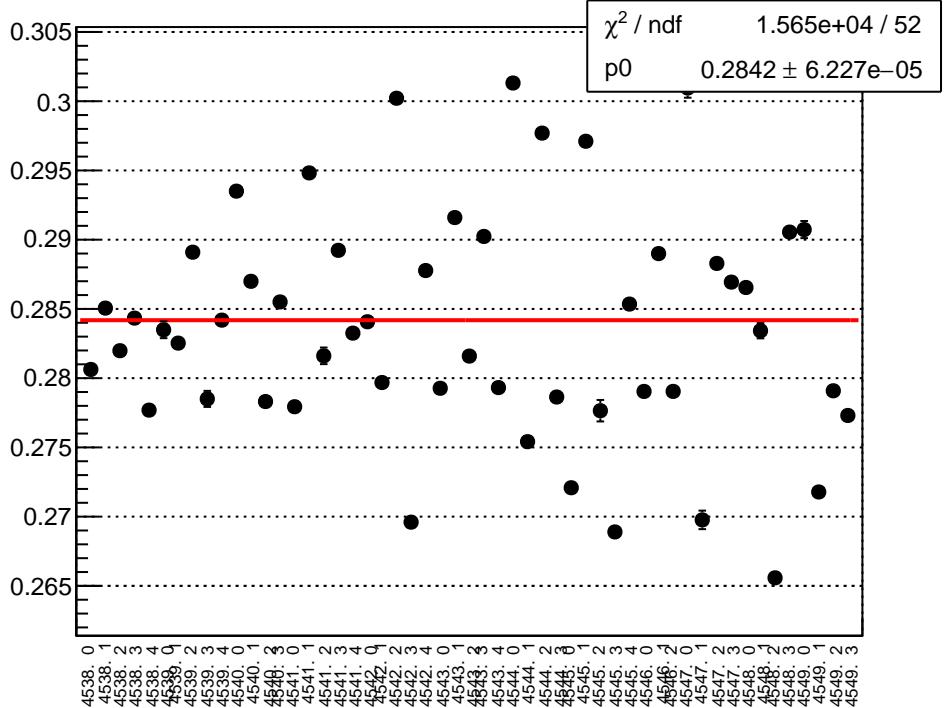
# yield\_bpm4aY\_mean vs run



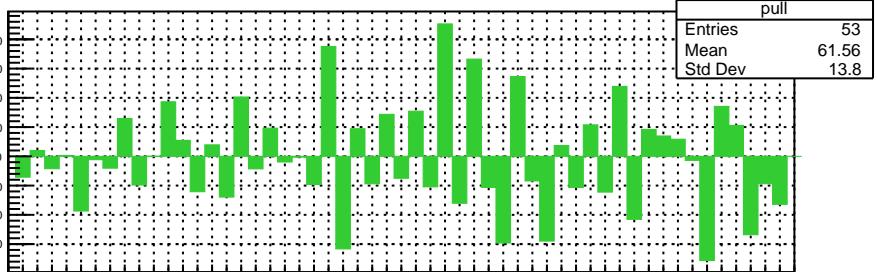
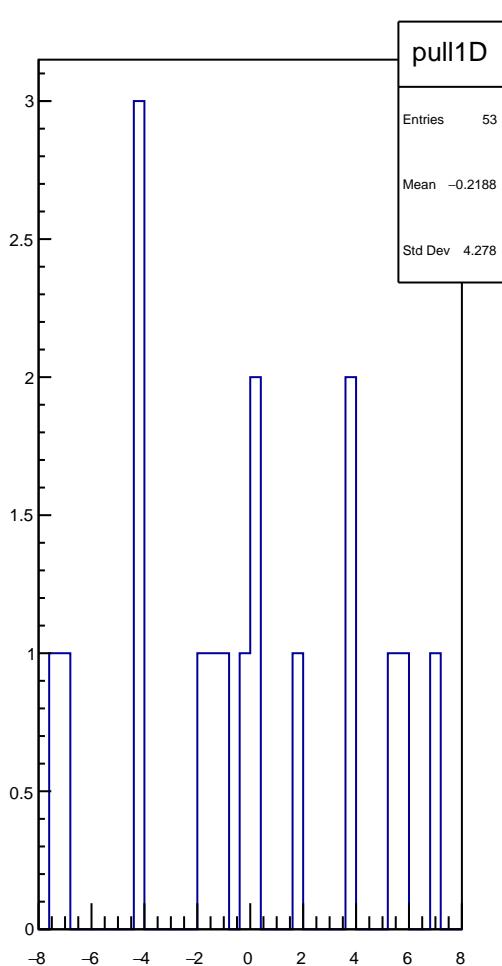
# yield\_bpm4aY\_rms vs run



# yield\_bpm4eX\_mean vs run

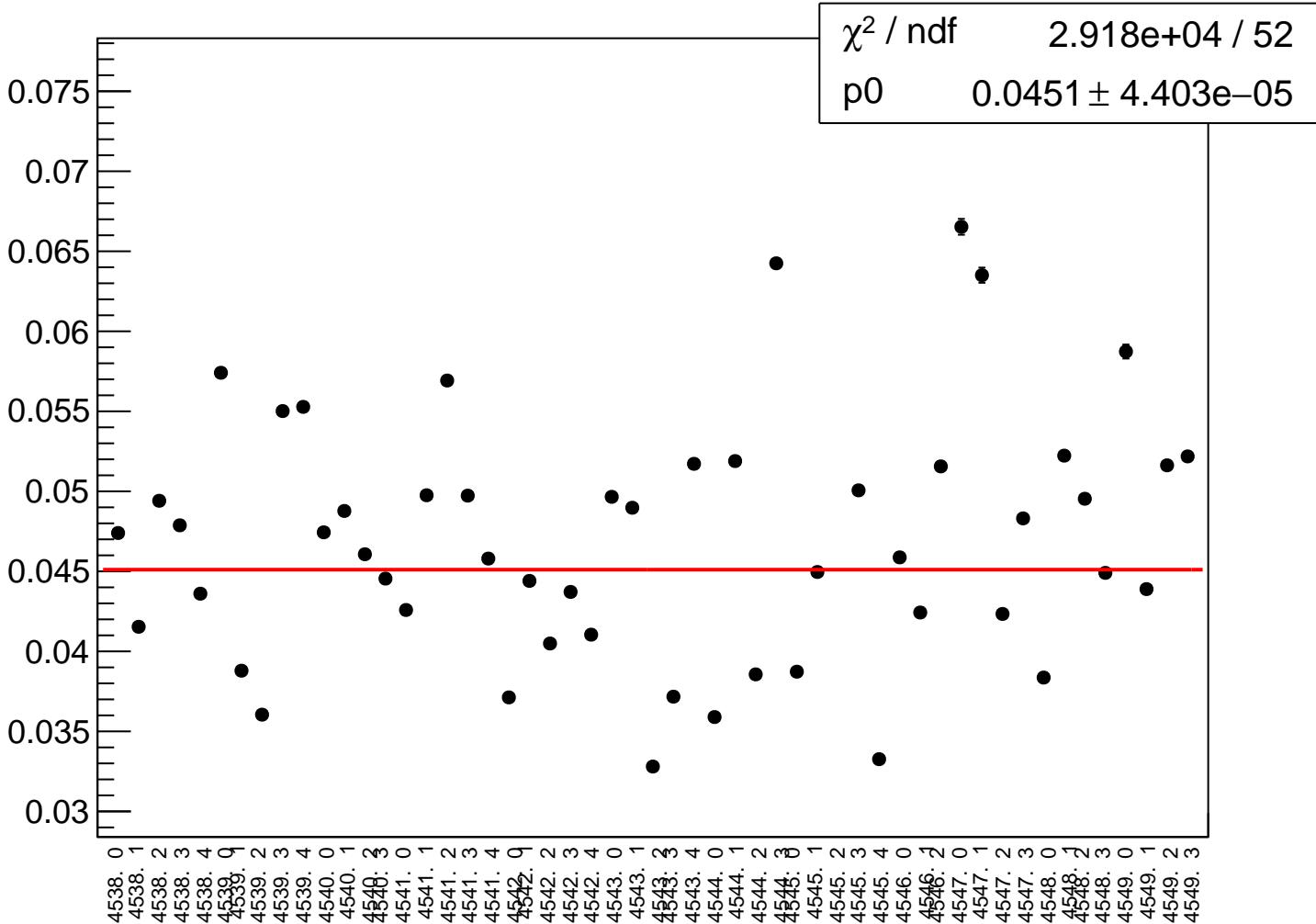


$\chi^2 / \text{ndf}$  1.565e+04 / 52  
 $p_0$   $0.2842 \pm 6.227\text{e}{-}05$

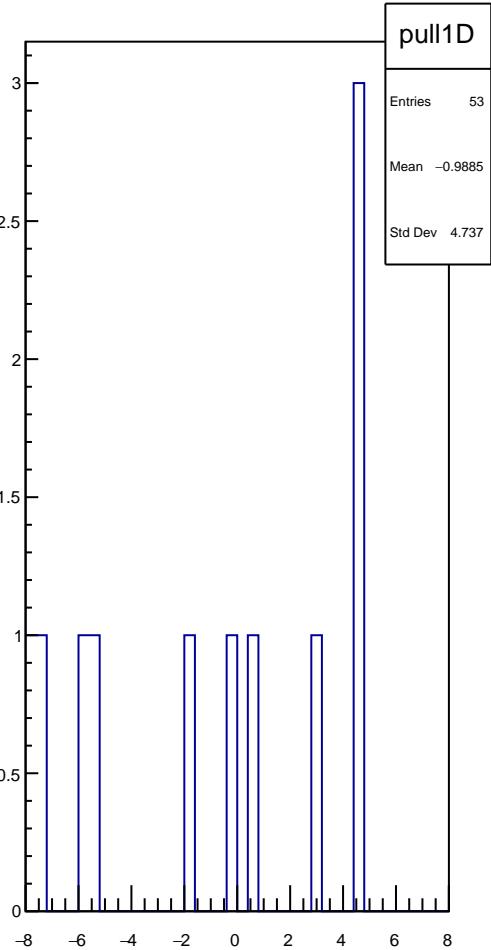
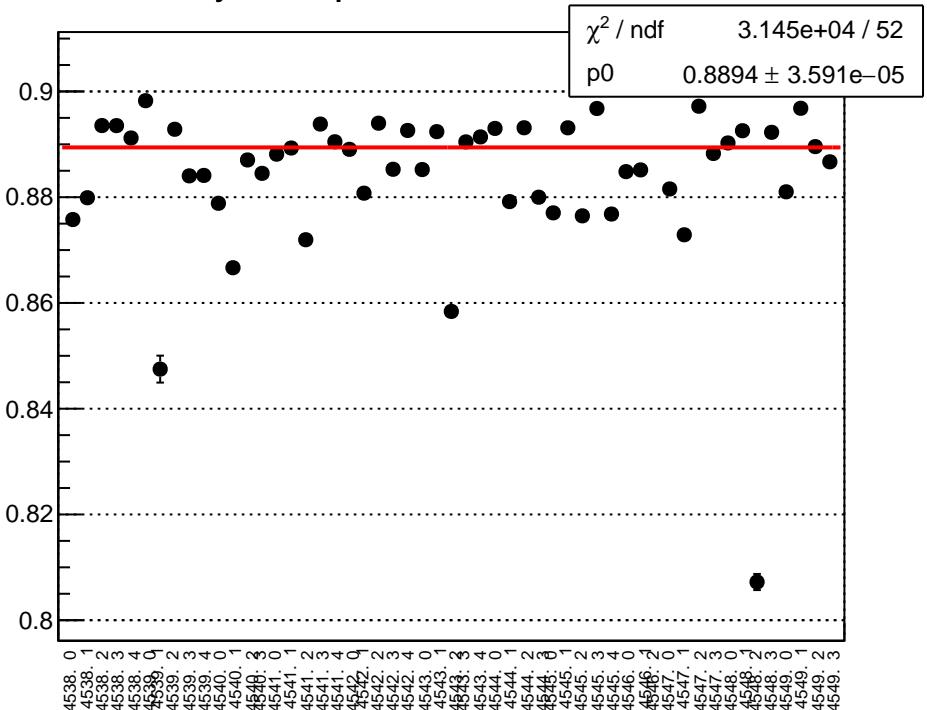


**pull**  
Entries 53  
Mean 61.56  
Std Dev 13.8

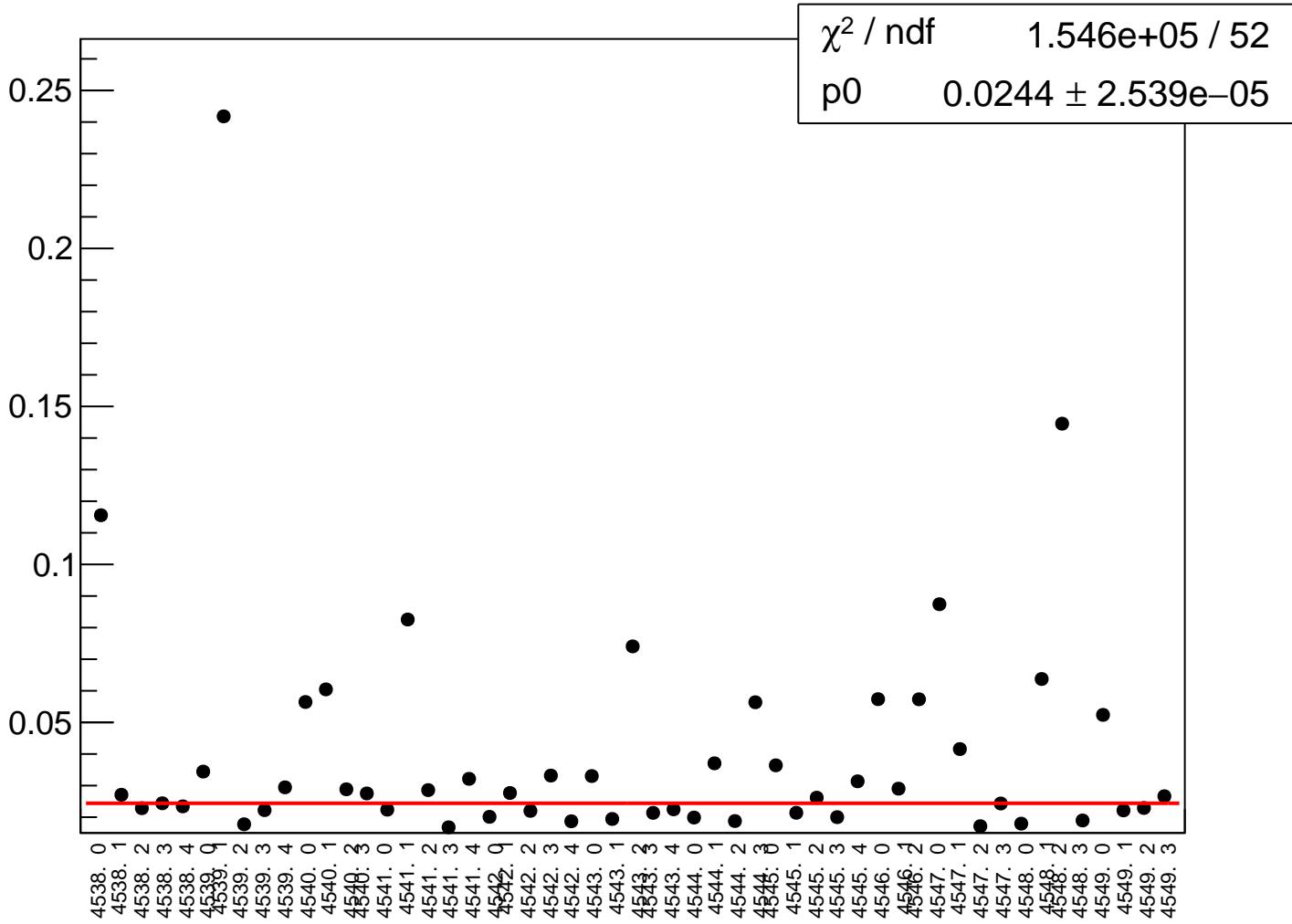
# yield\_bpm4eX\_rms vs run



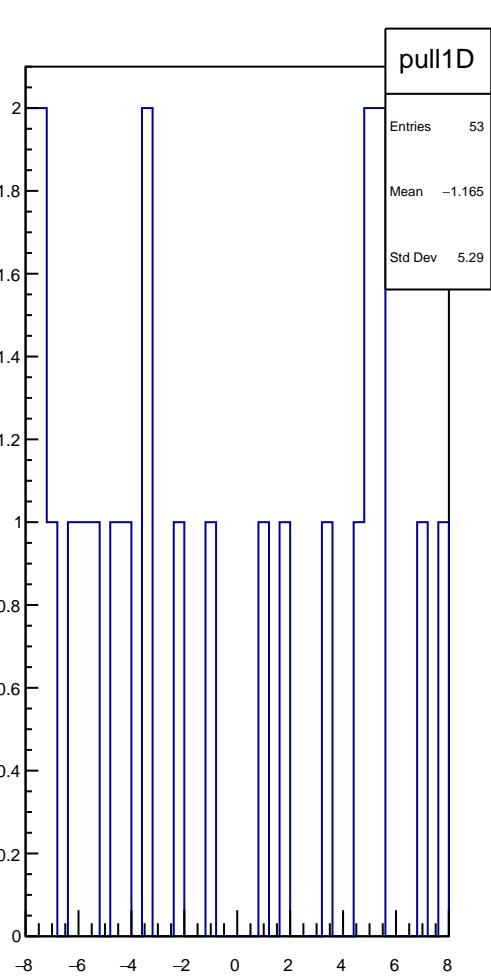
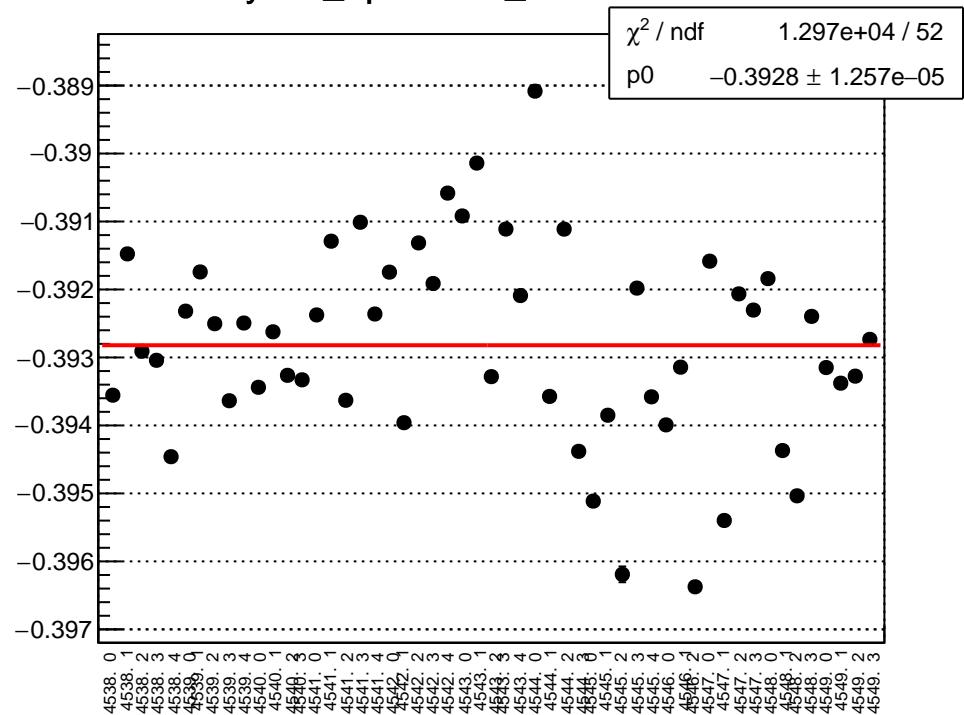
# yield\_bpm4eY\_mean vs run



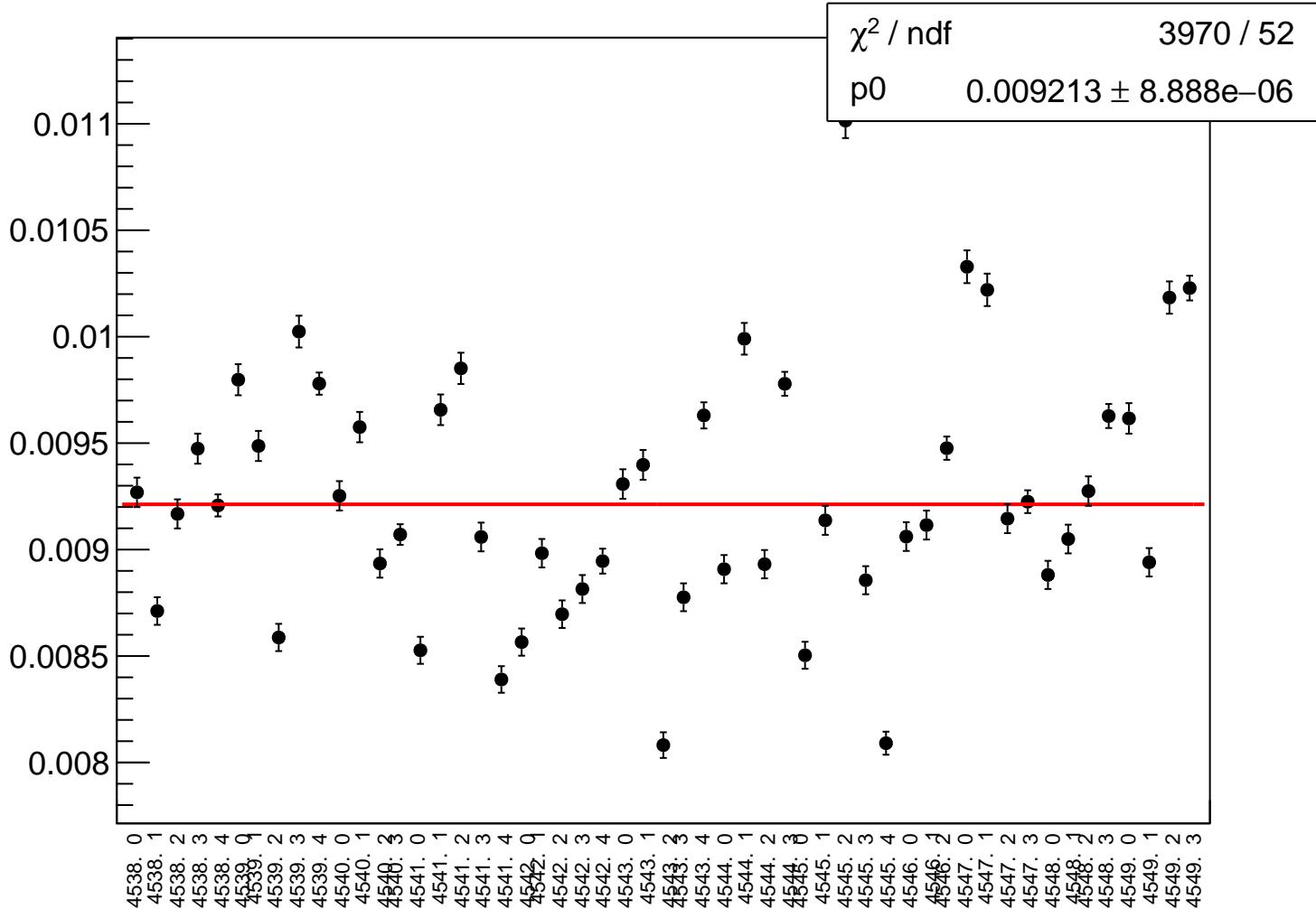
# yield\_bpm4eY\_rms vs run

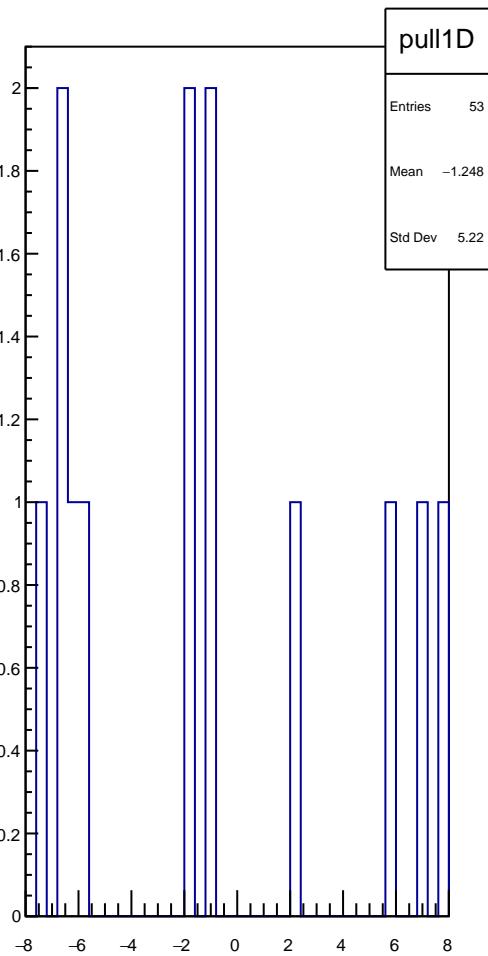
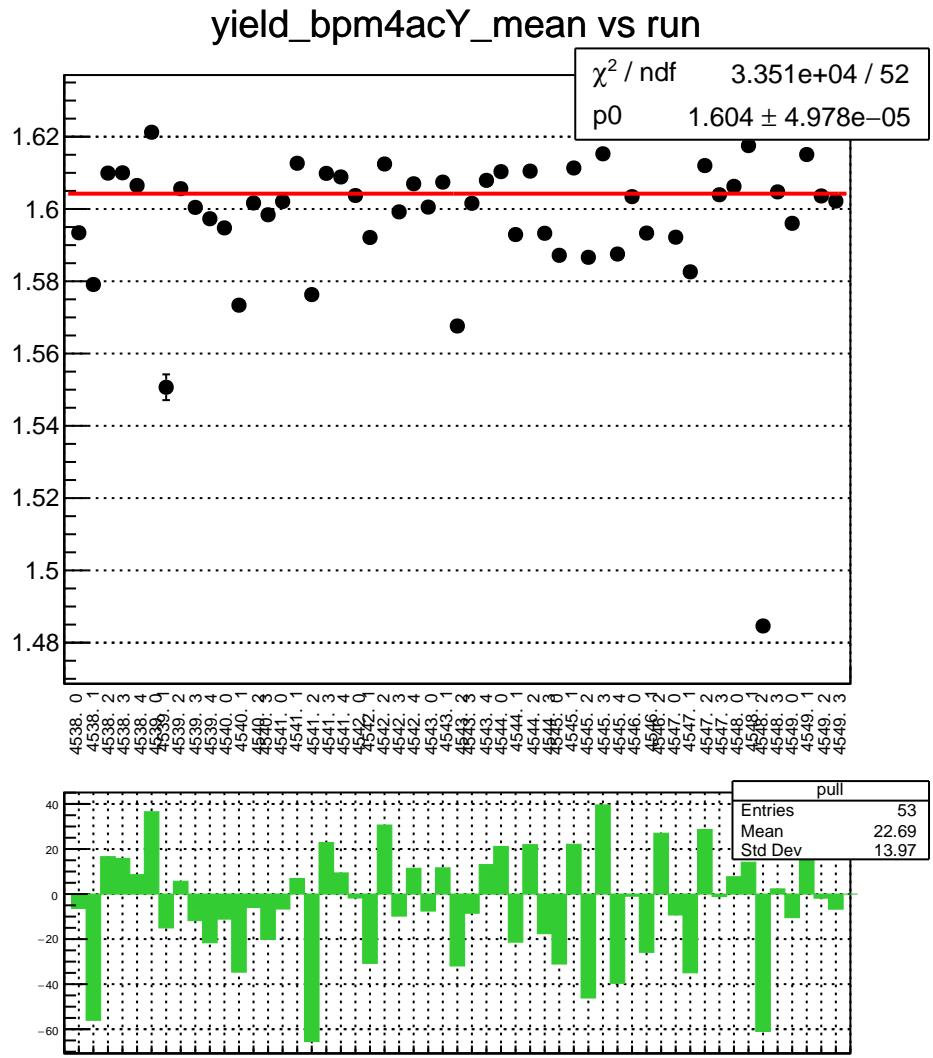


# yield\_bpm4acX\_mean vs run

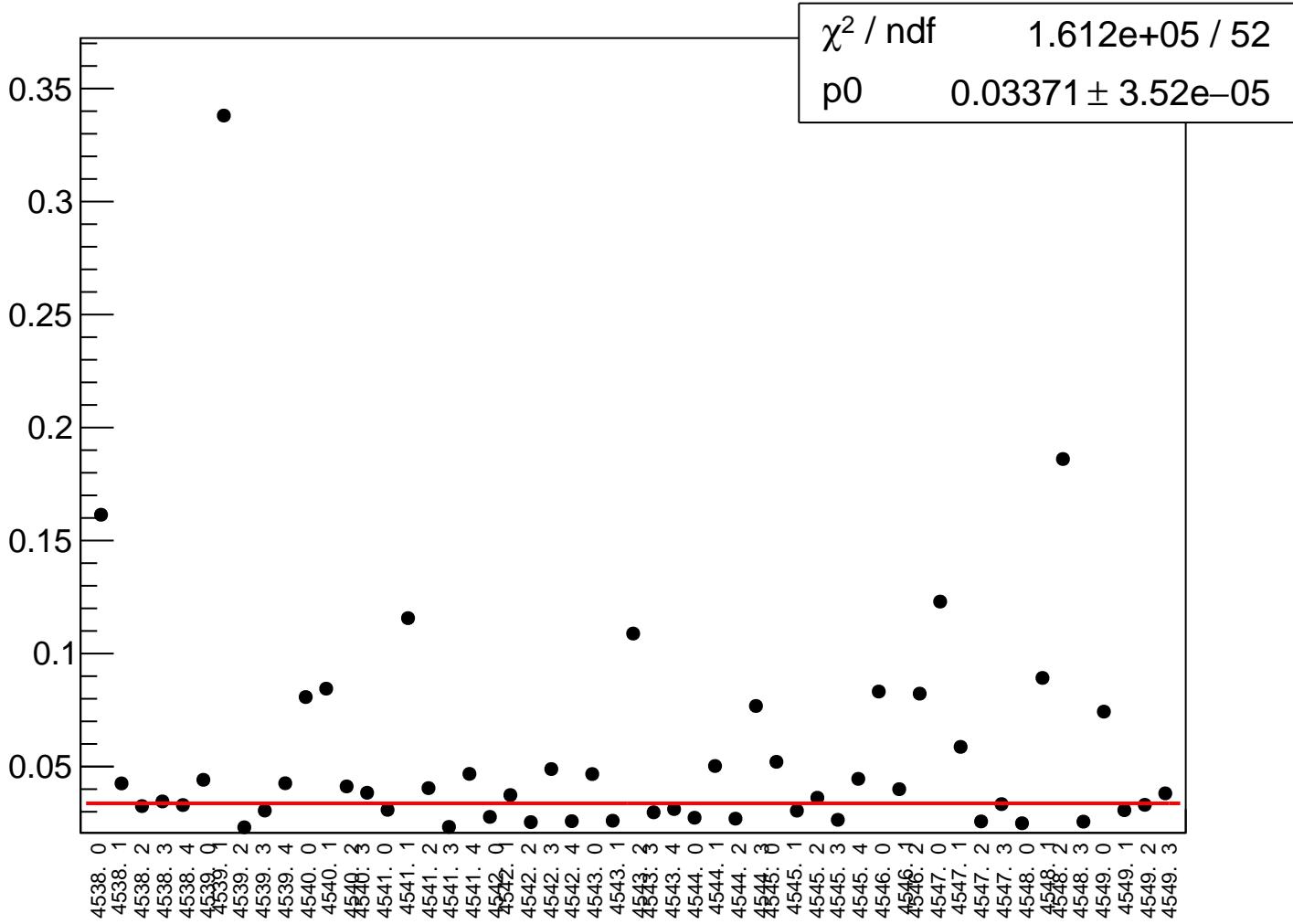


# yield\_bpm4acX\_rms vs run

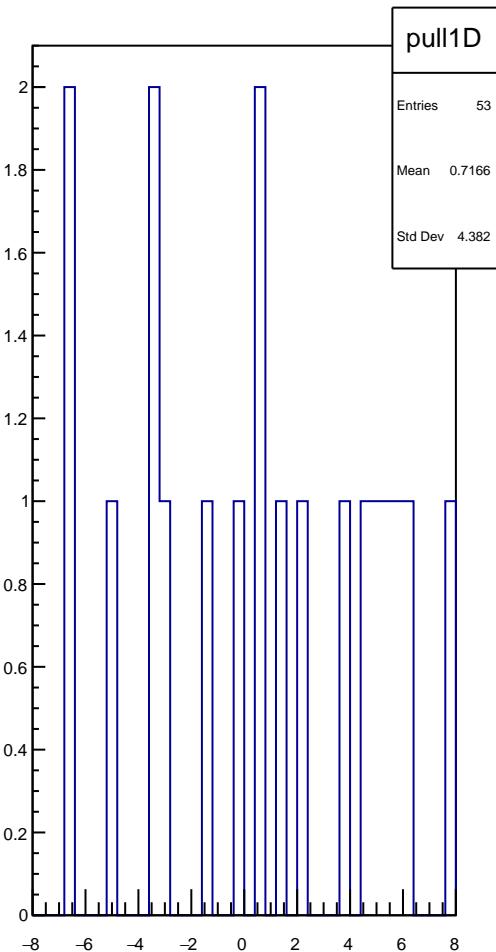
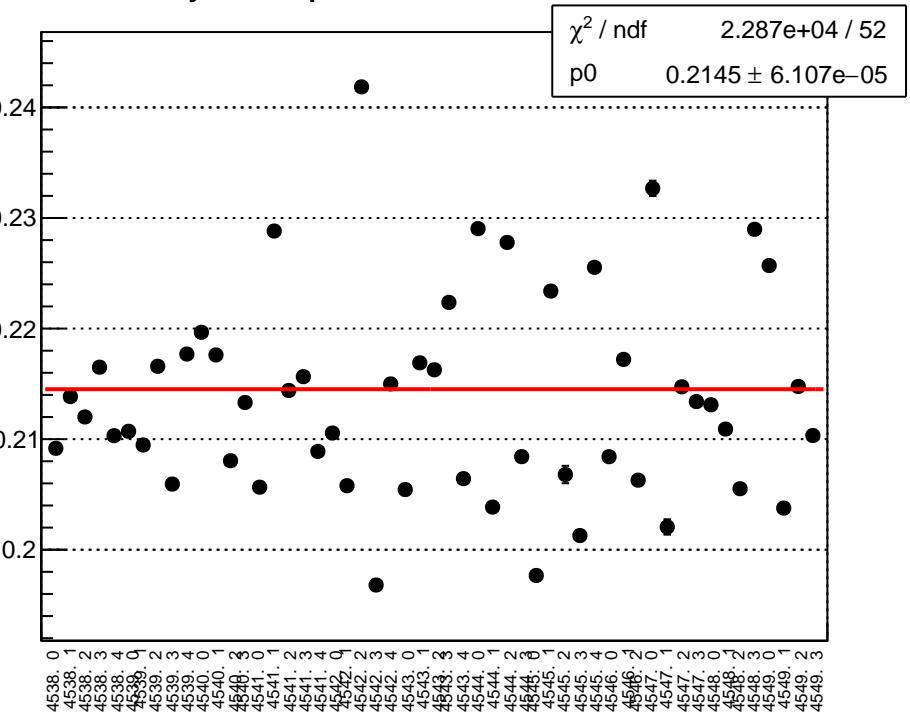




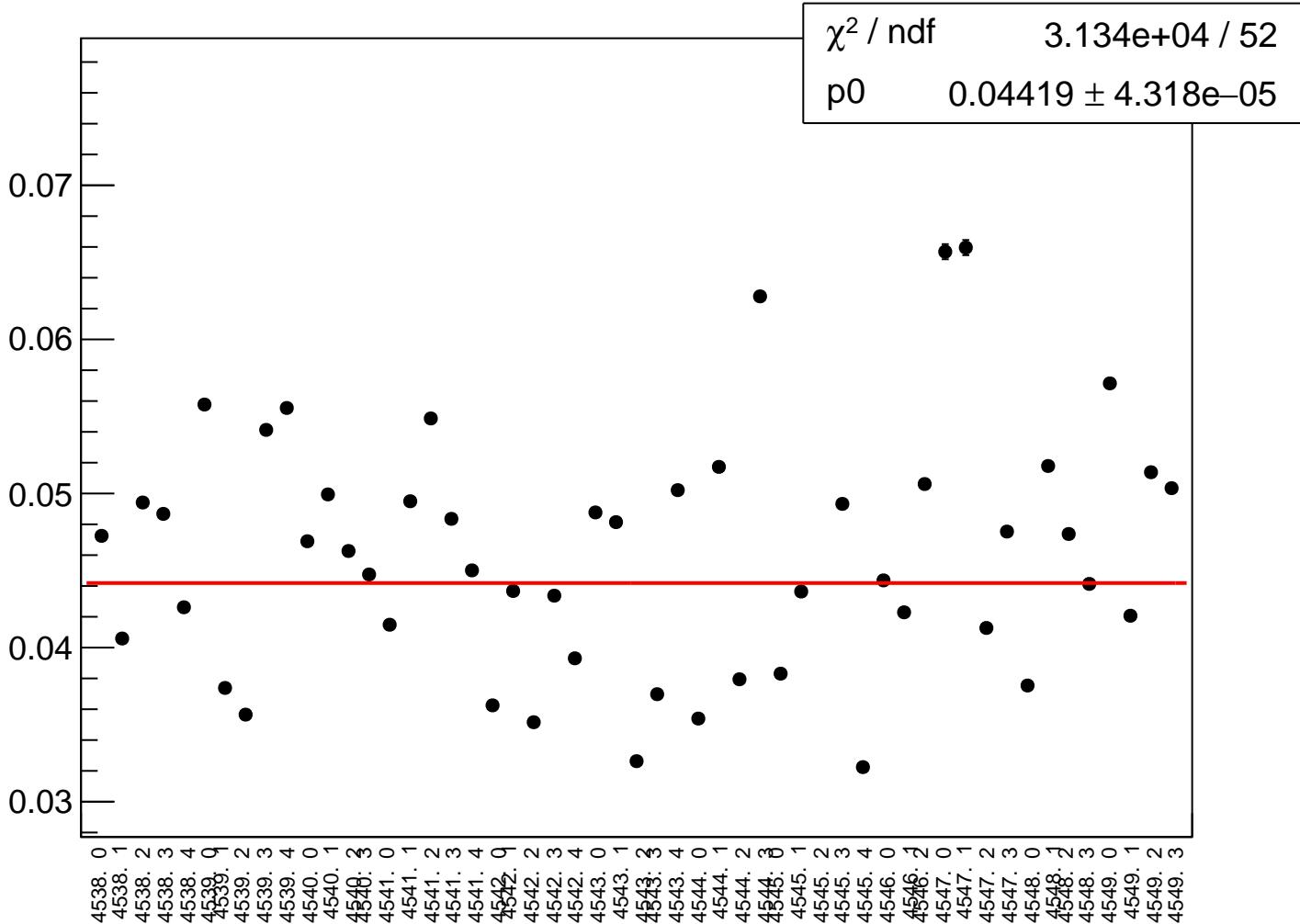
# yield\_bpm4acY\_rms vs run

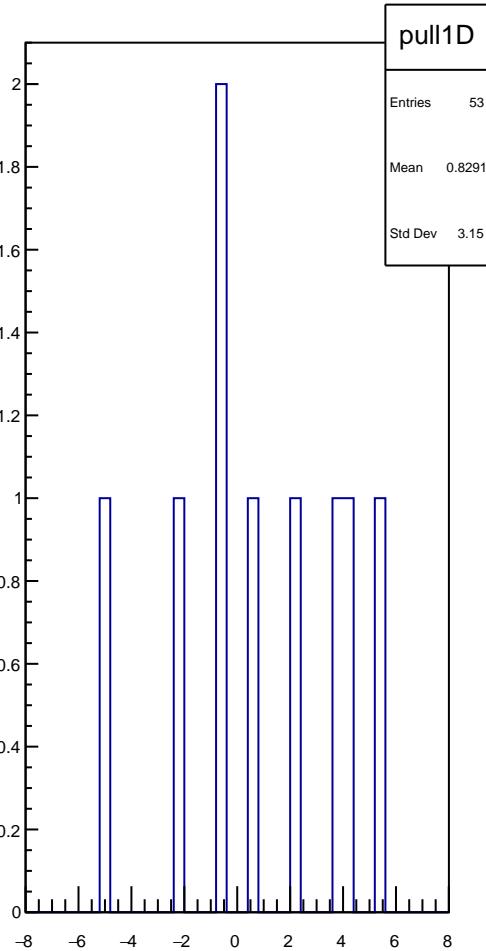
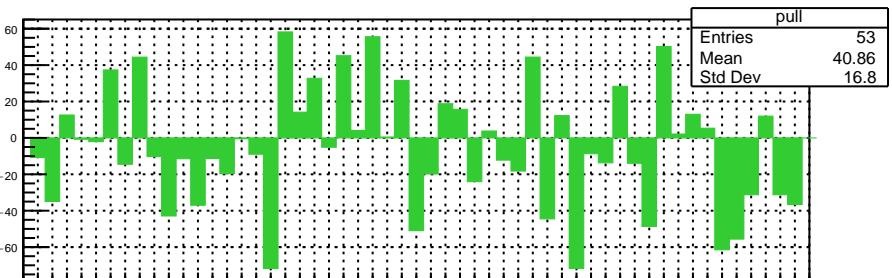
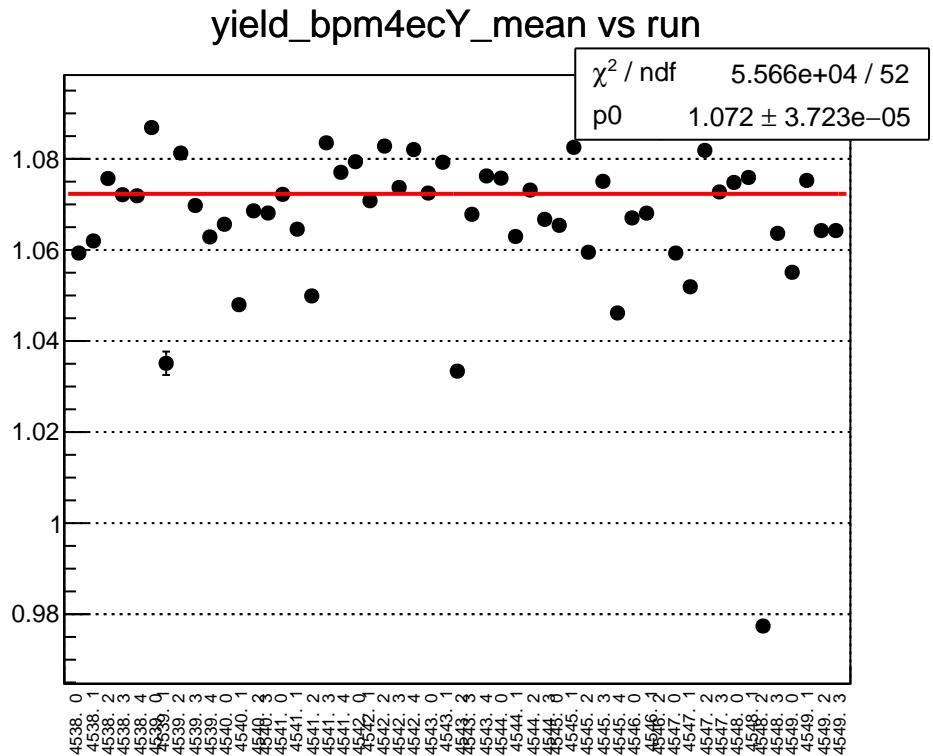


# yield\_bpm4ecX\_mean vs run

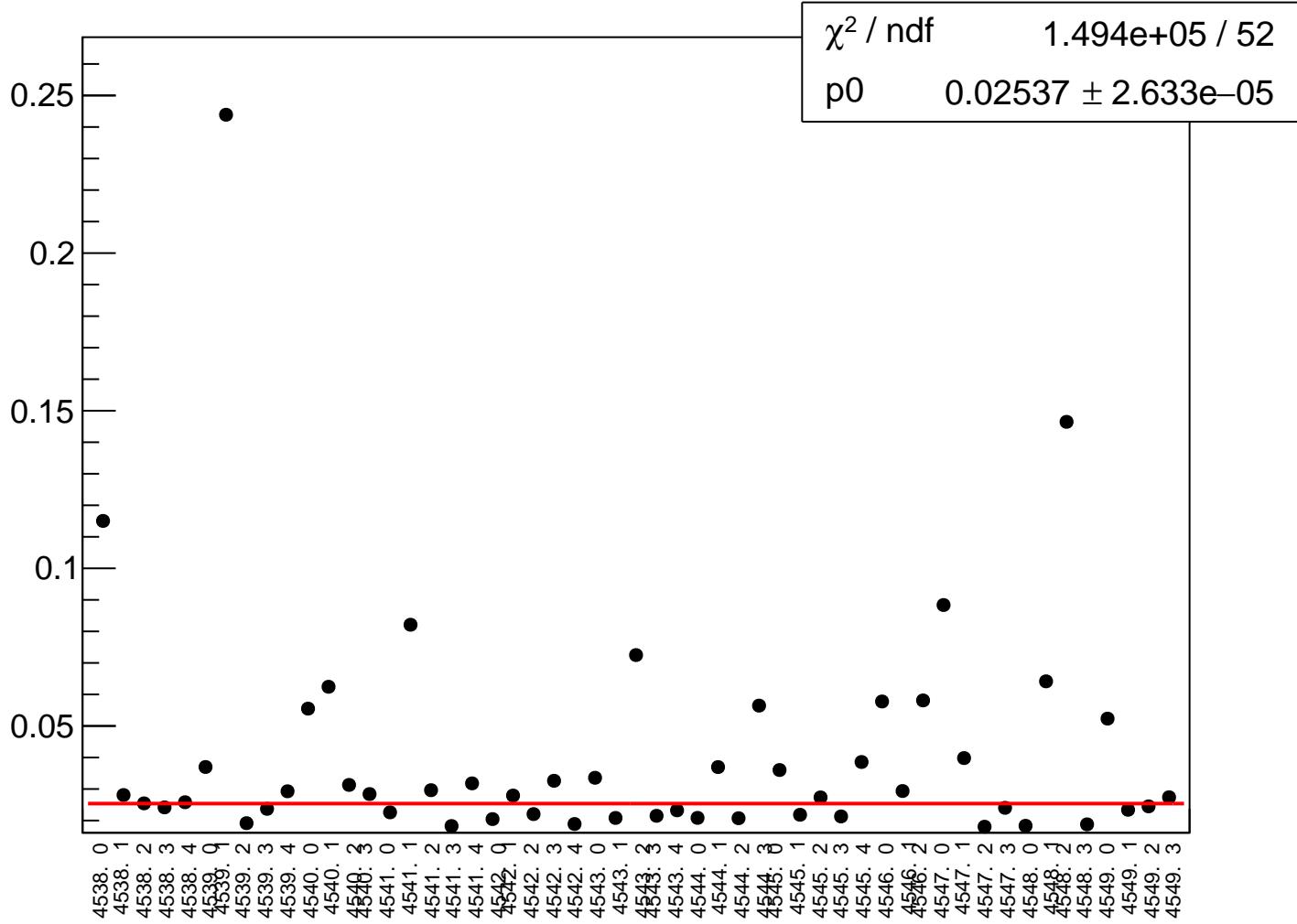


# yield\_bpm4ecX\_rms vs run

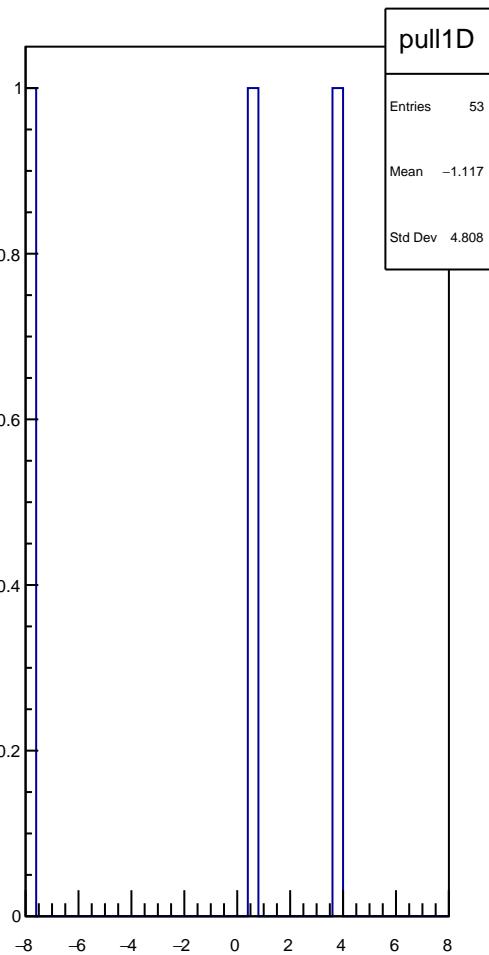
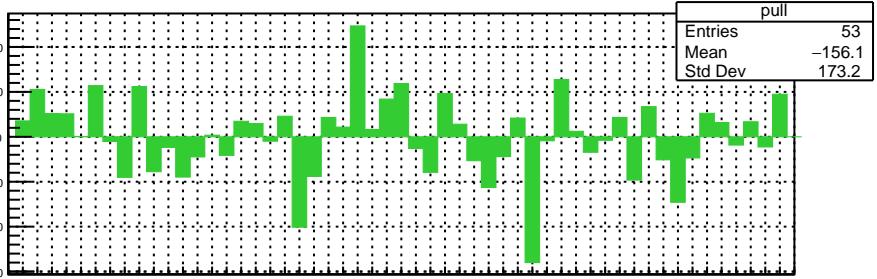
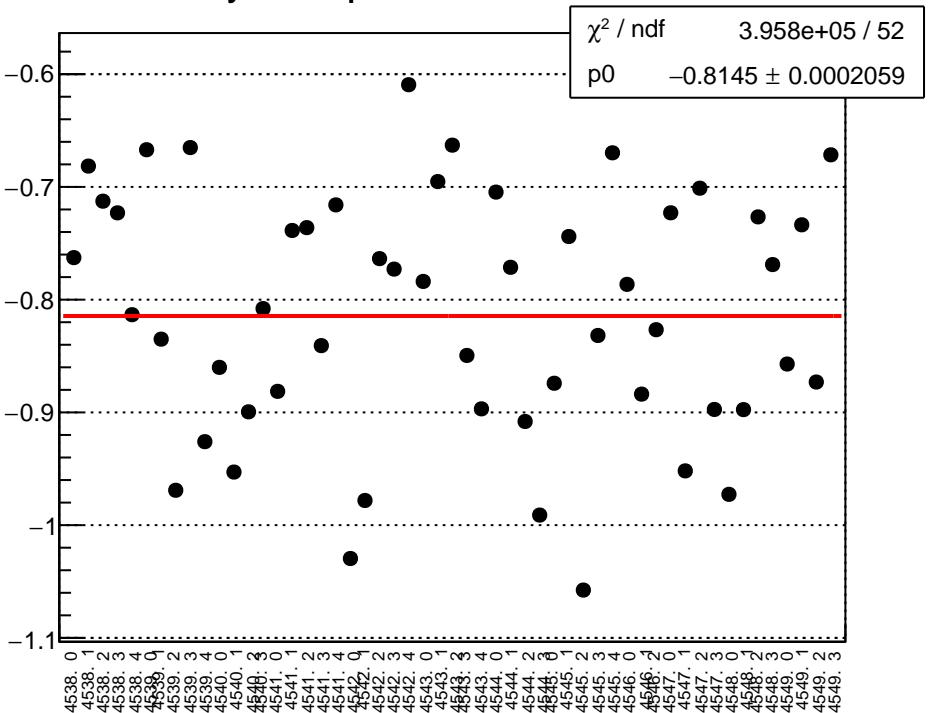




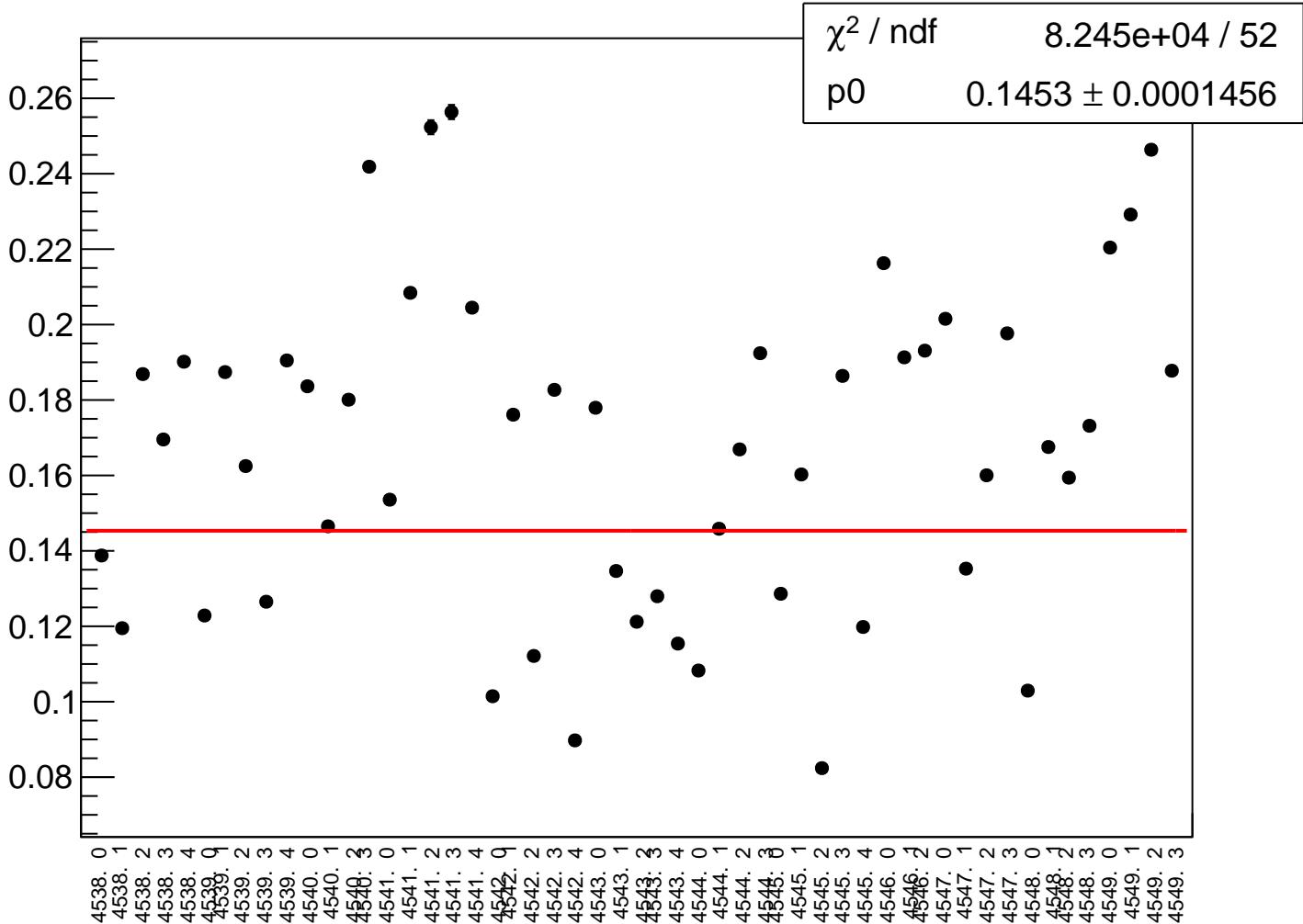
# yield\_bpm4ecY\_rms vs run



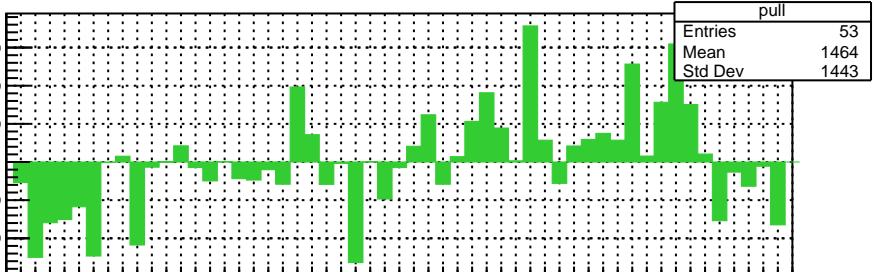
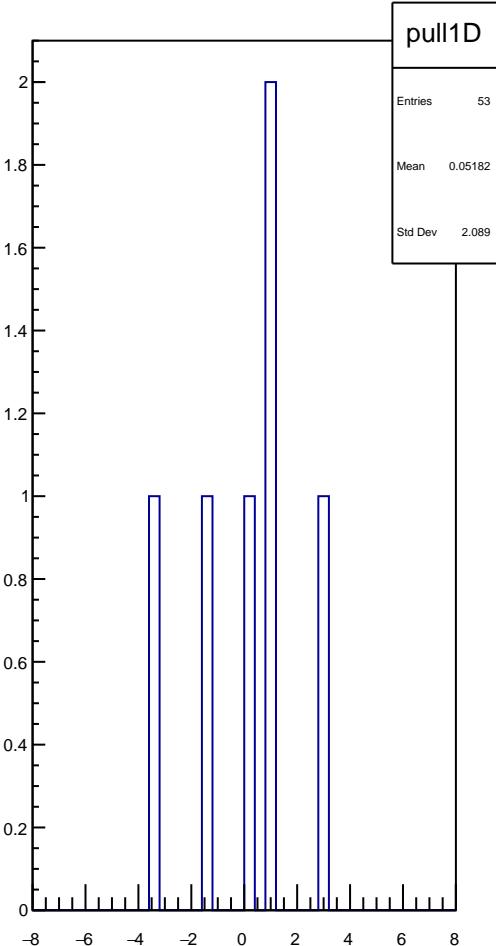
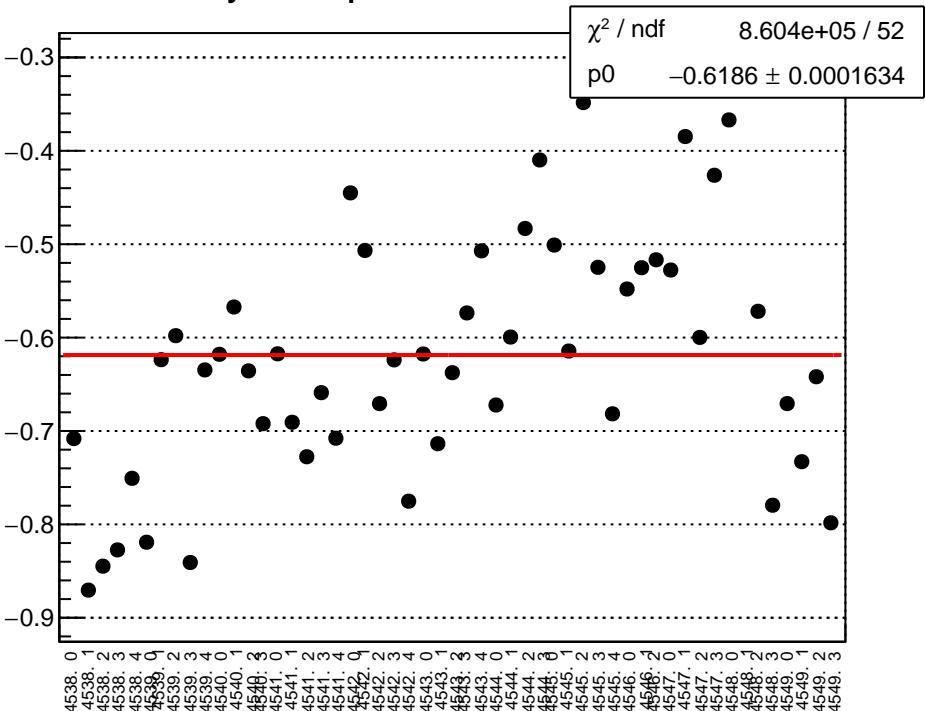
# yield\_bpm1X\_mean vs run



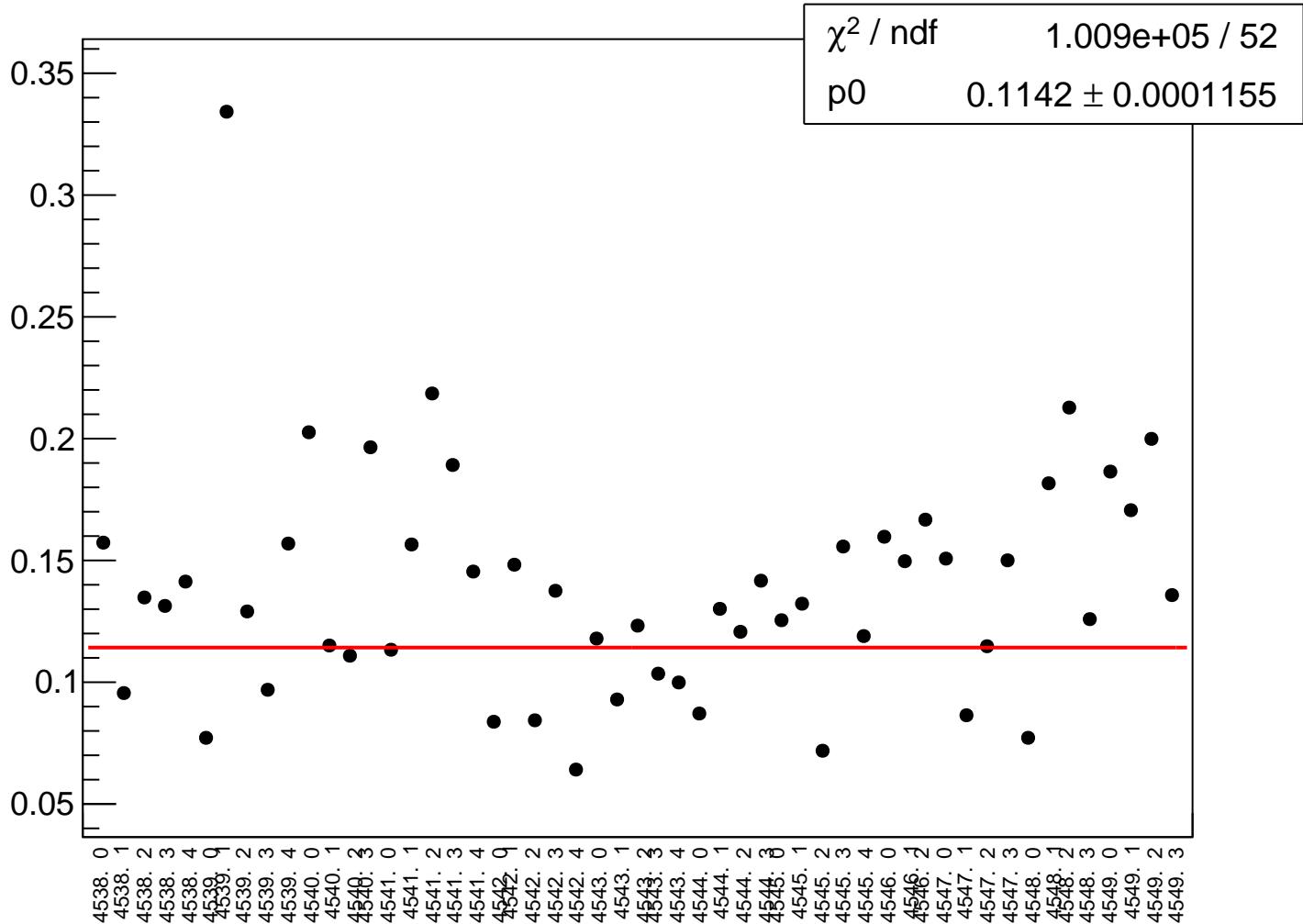
# yield\_bpm1X\_rms vs run



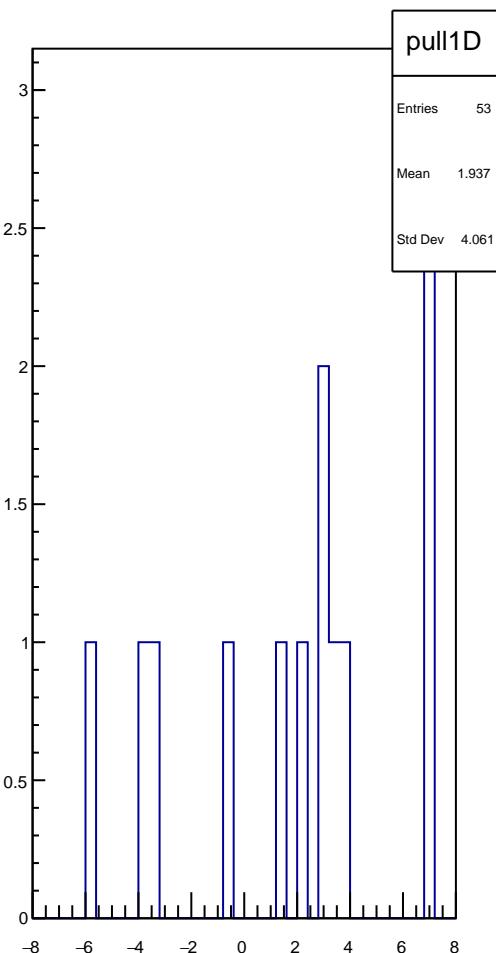
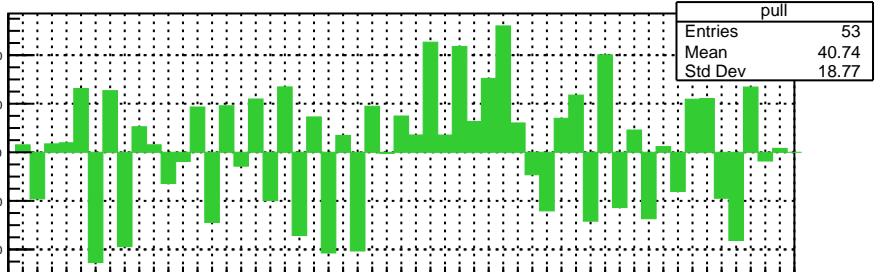
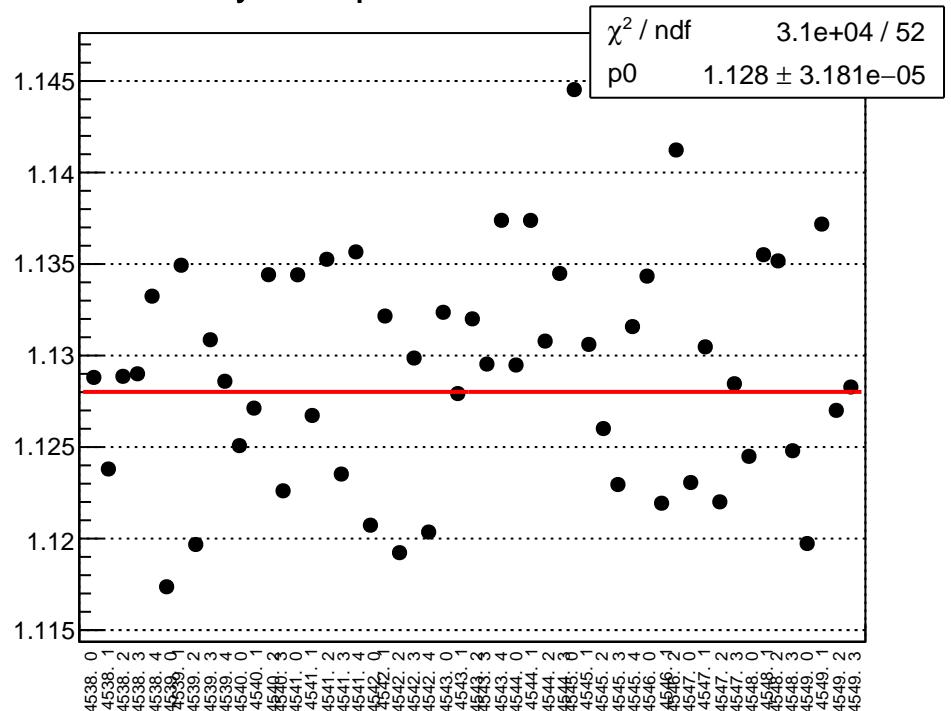
# yield\_bpm1Y\_mean vs run



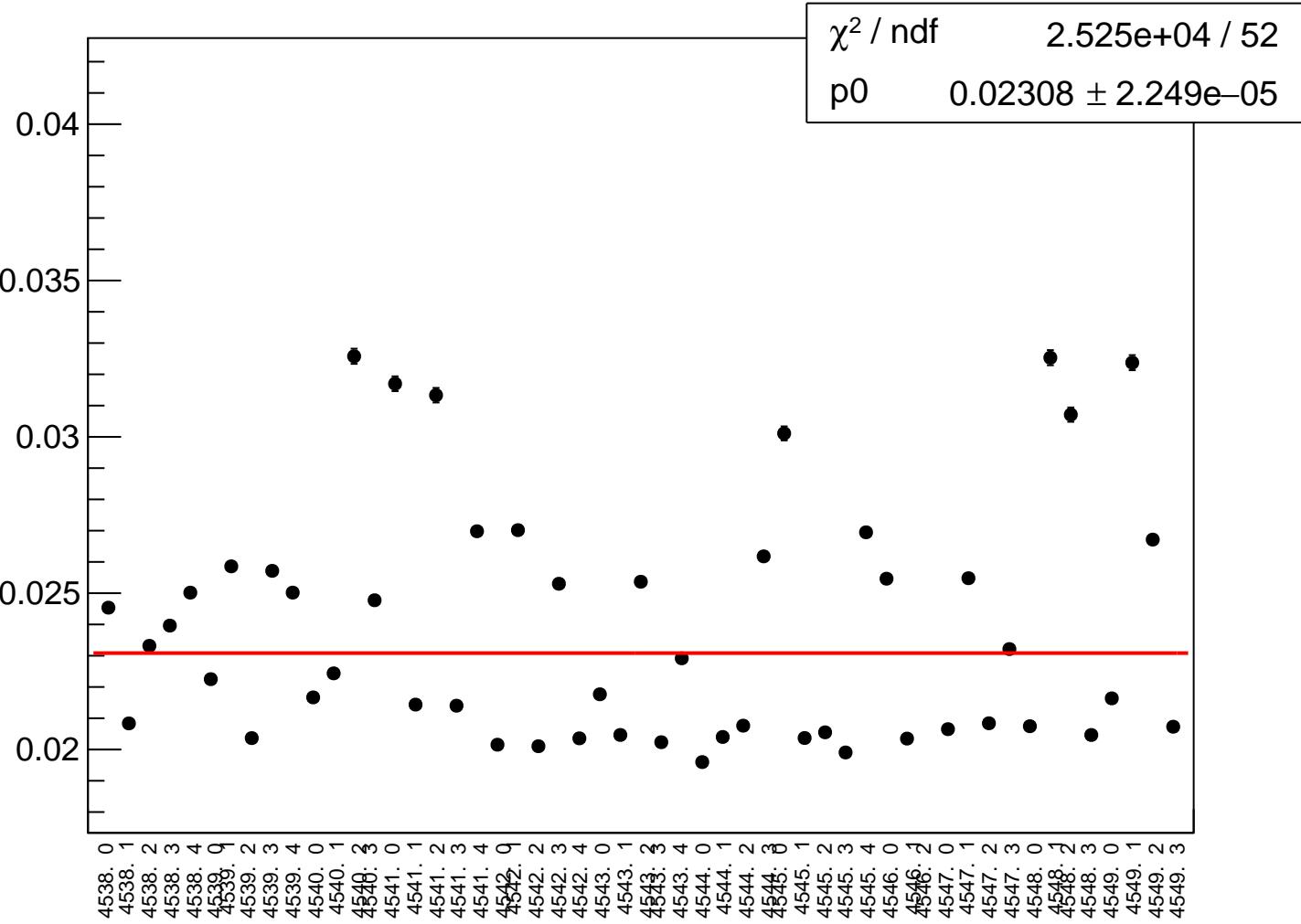
# yield\_bpm1Y\_rms vs run



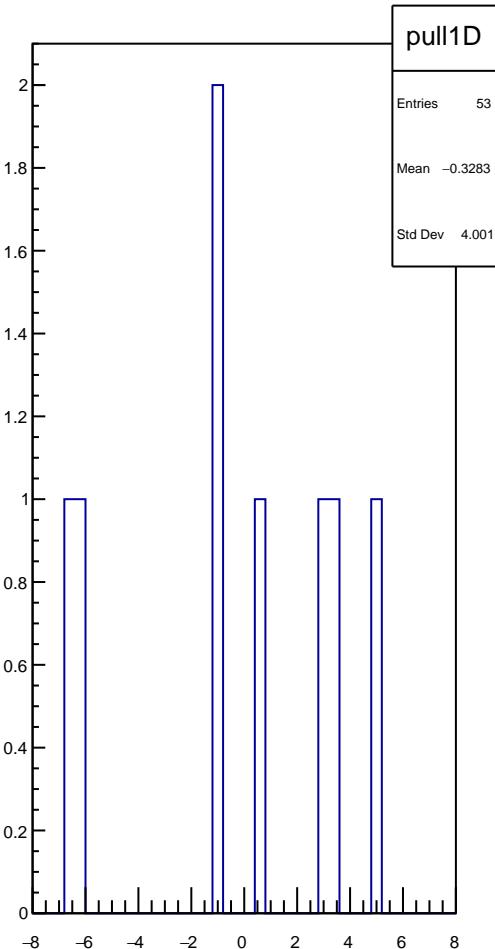
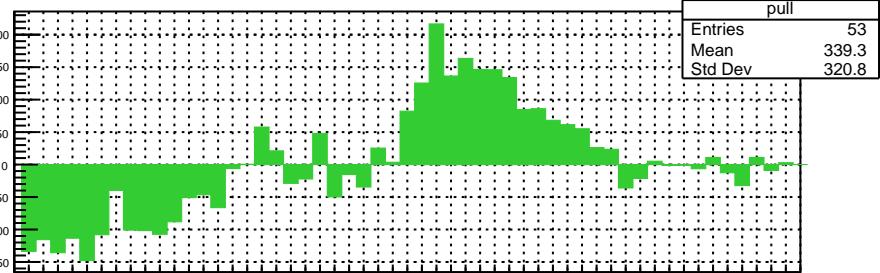
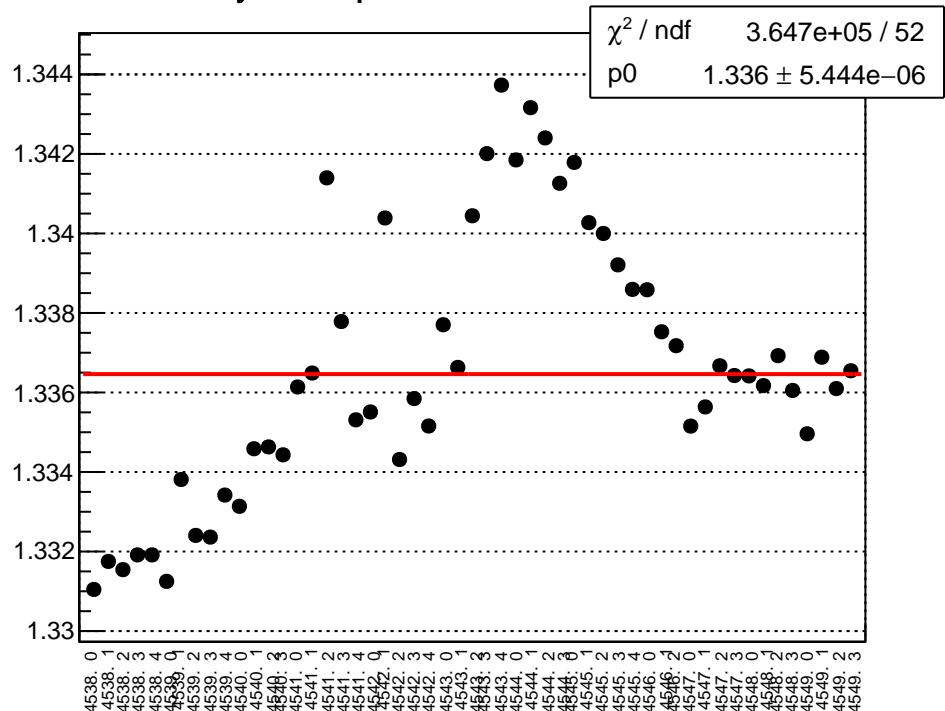
# yield\_bpm11X\_mean vs run



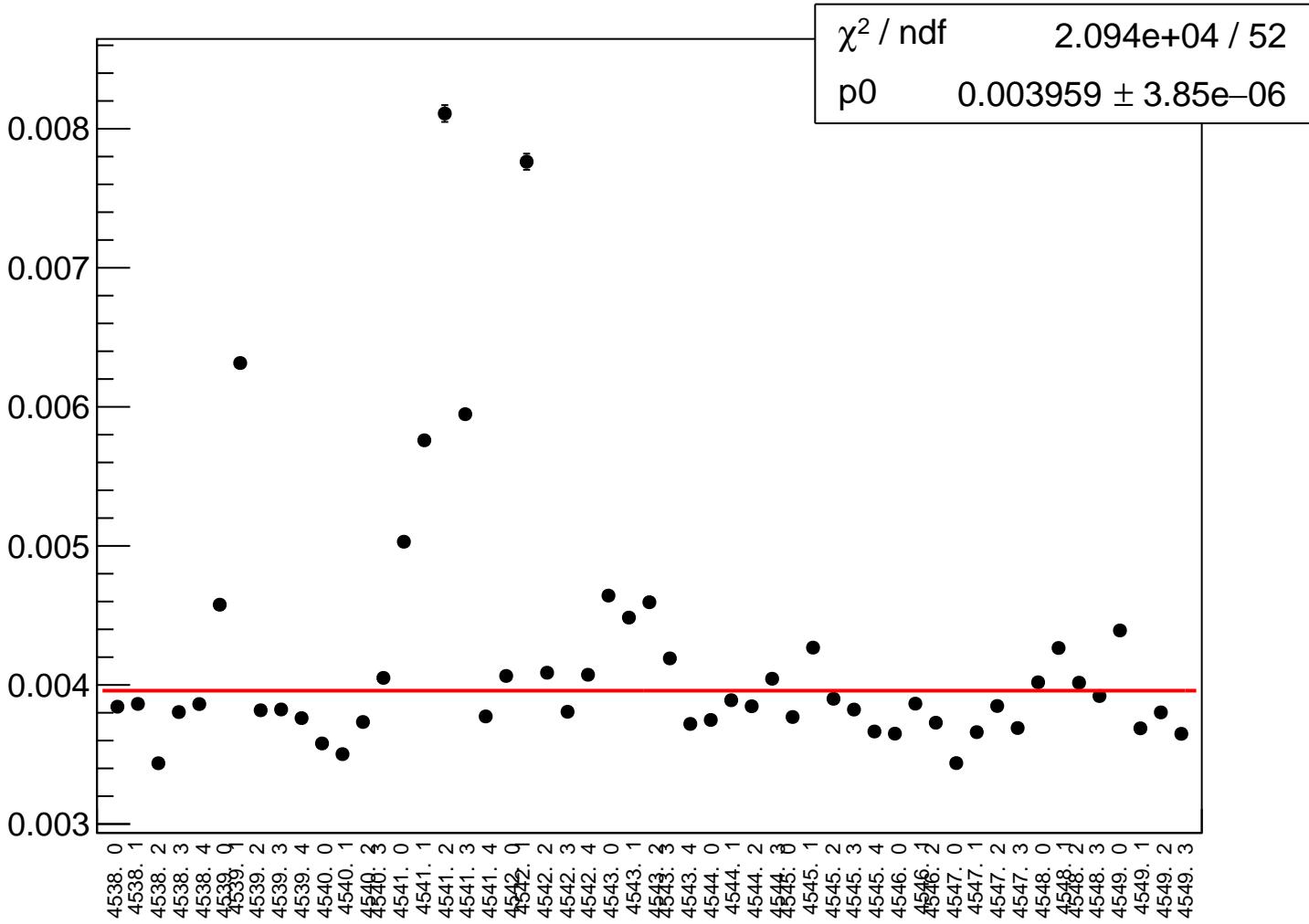
# yield\_bpm11X\_rms vs run

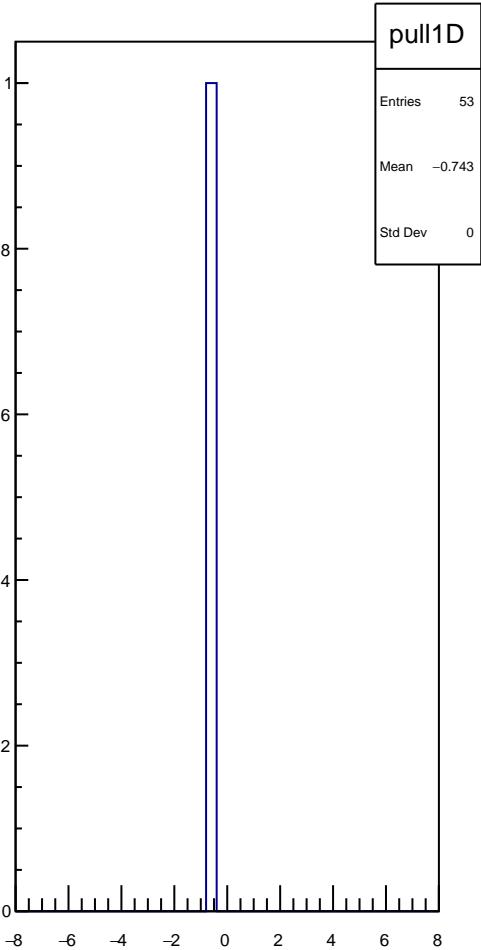
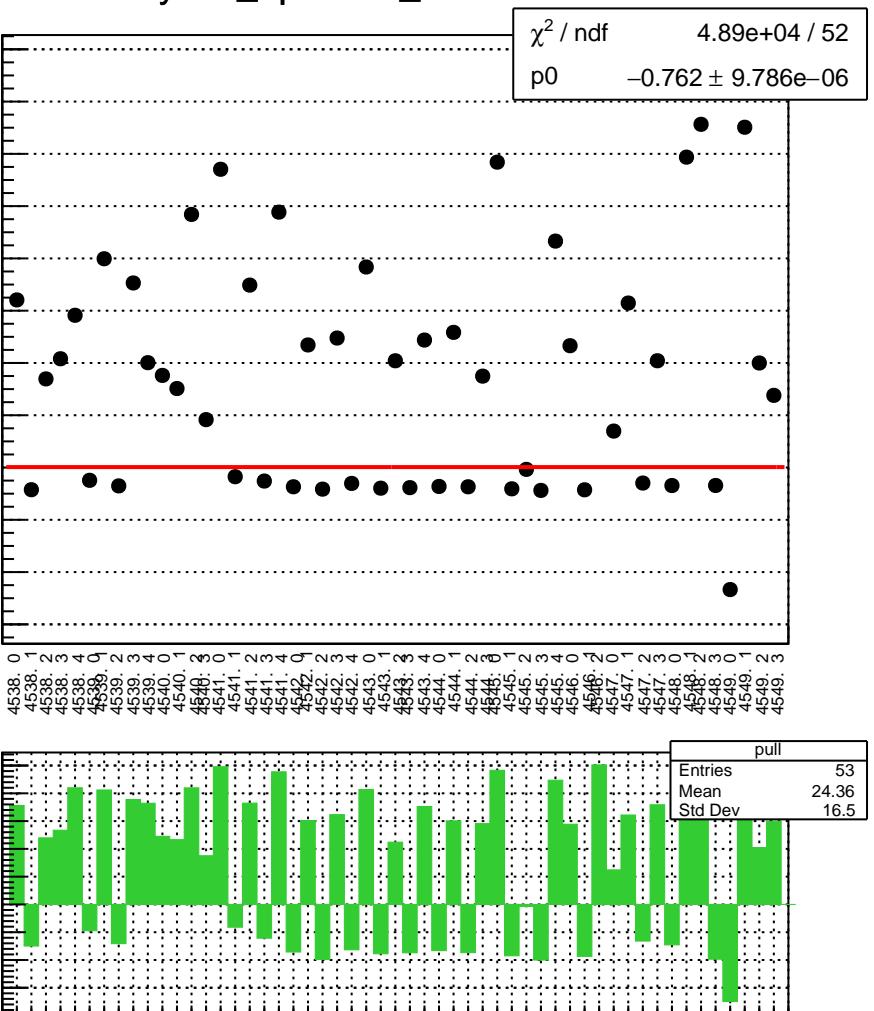


# yield\_bpm11Y\_mean vs run

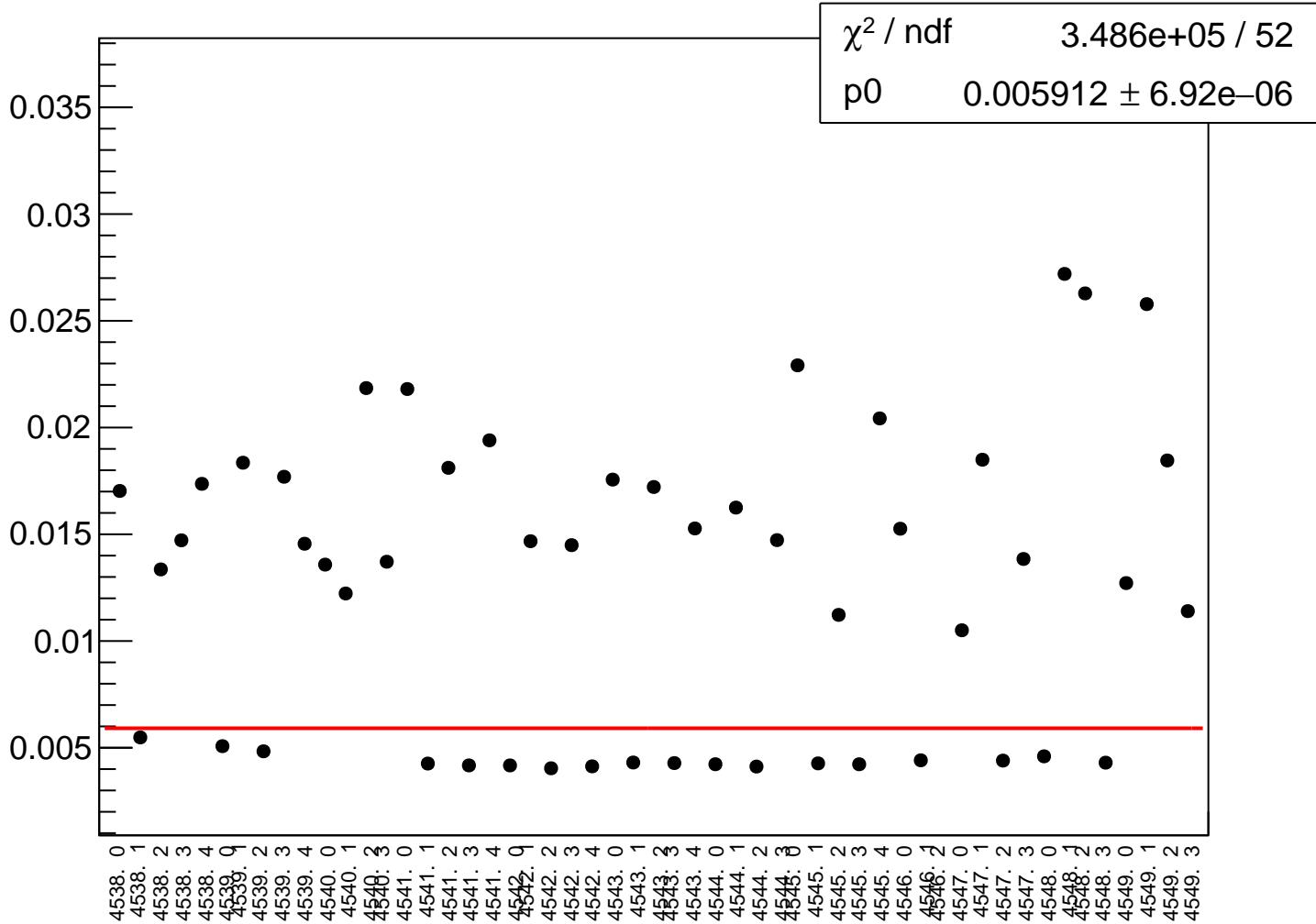


# yield\_bpm11Y\_rms vs run

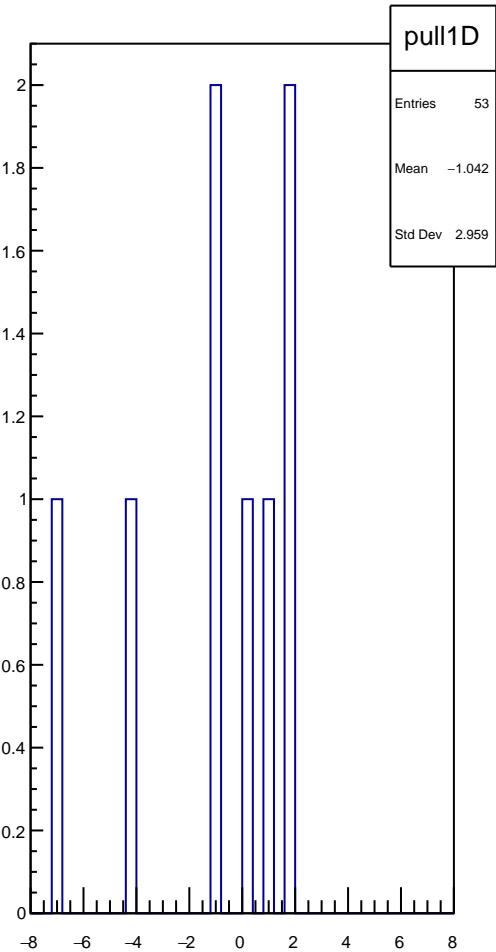
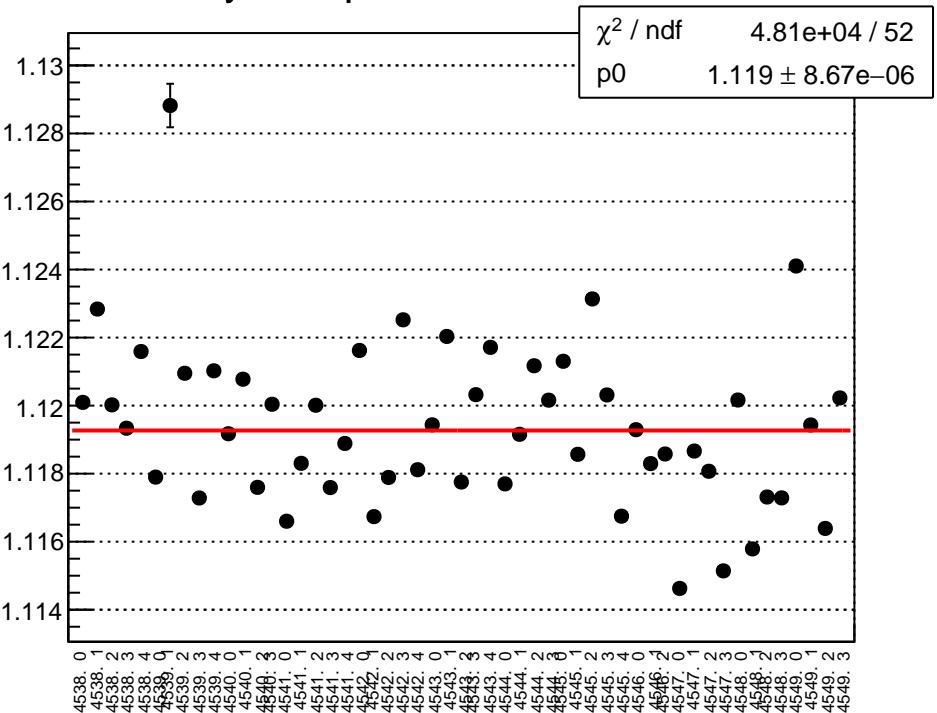




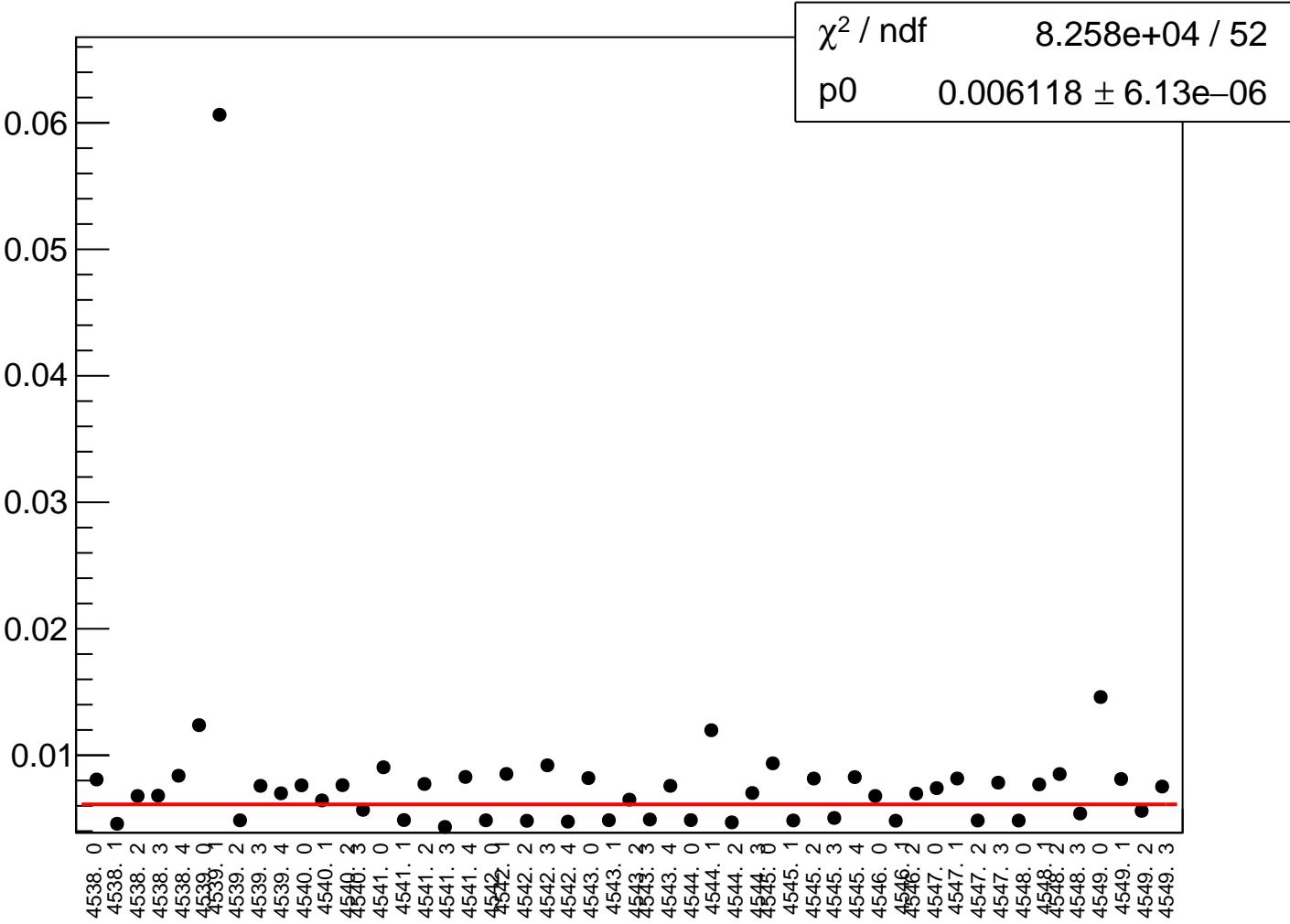
# yield\_bpm12X\_rms vs run



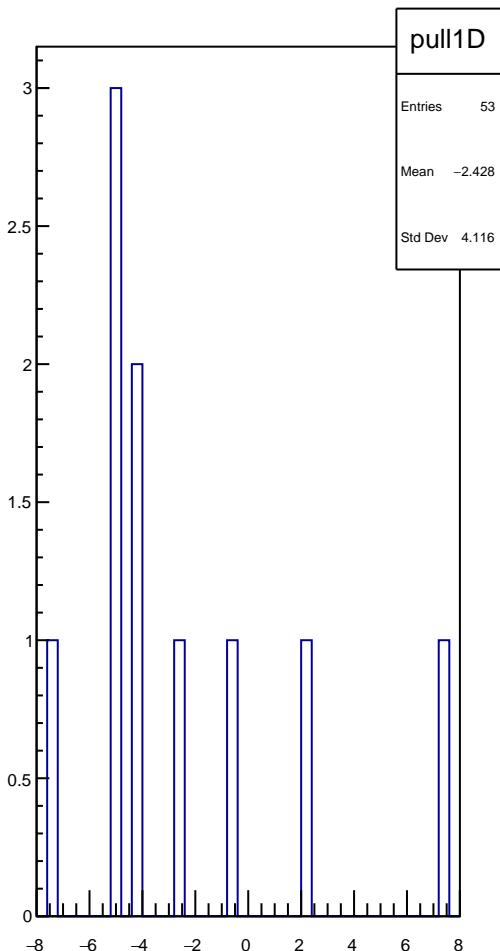
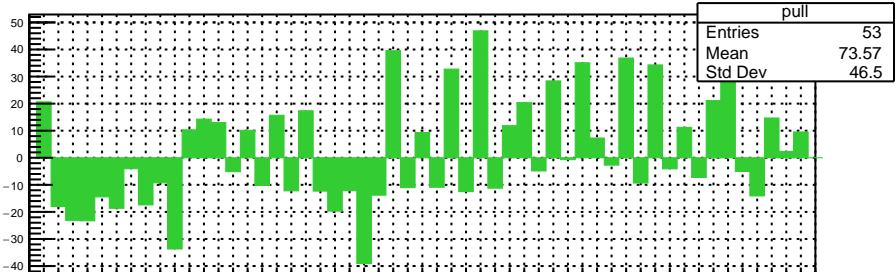
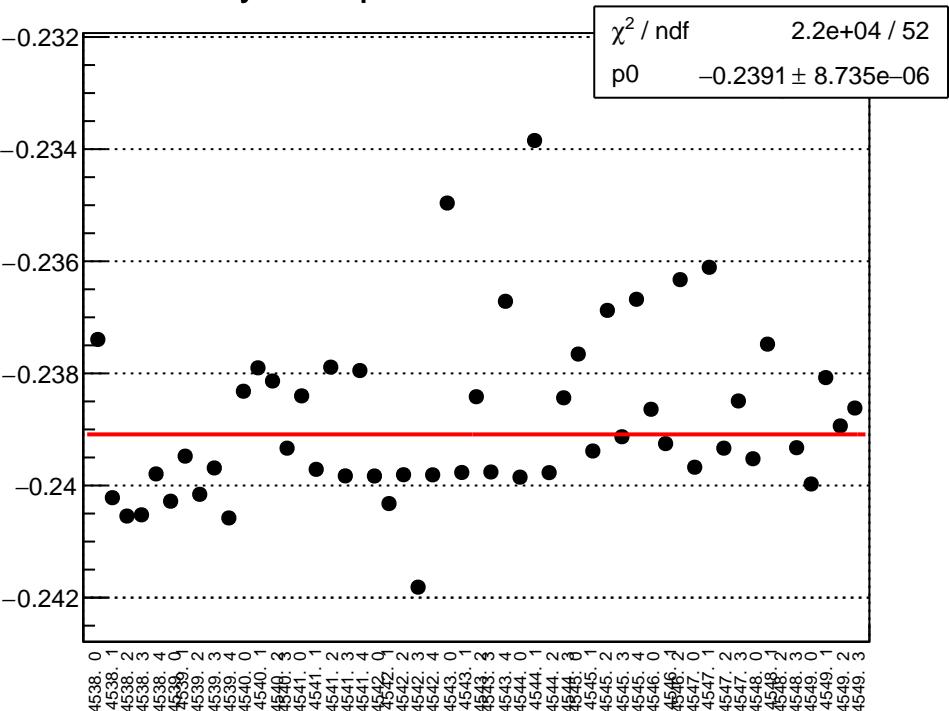
# yield\_bpm12Y\_mean vs run



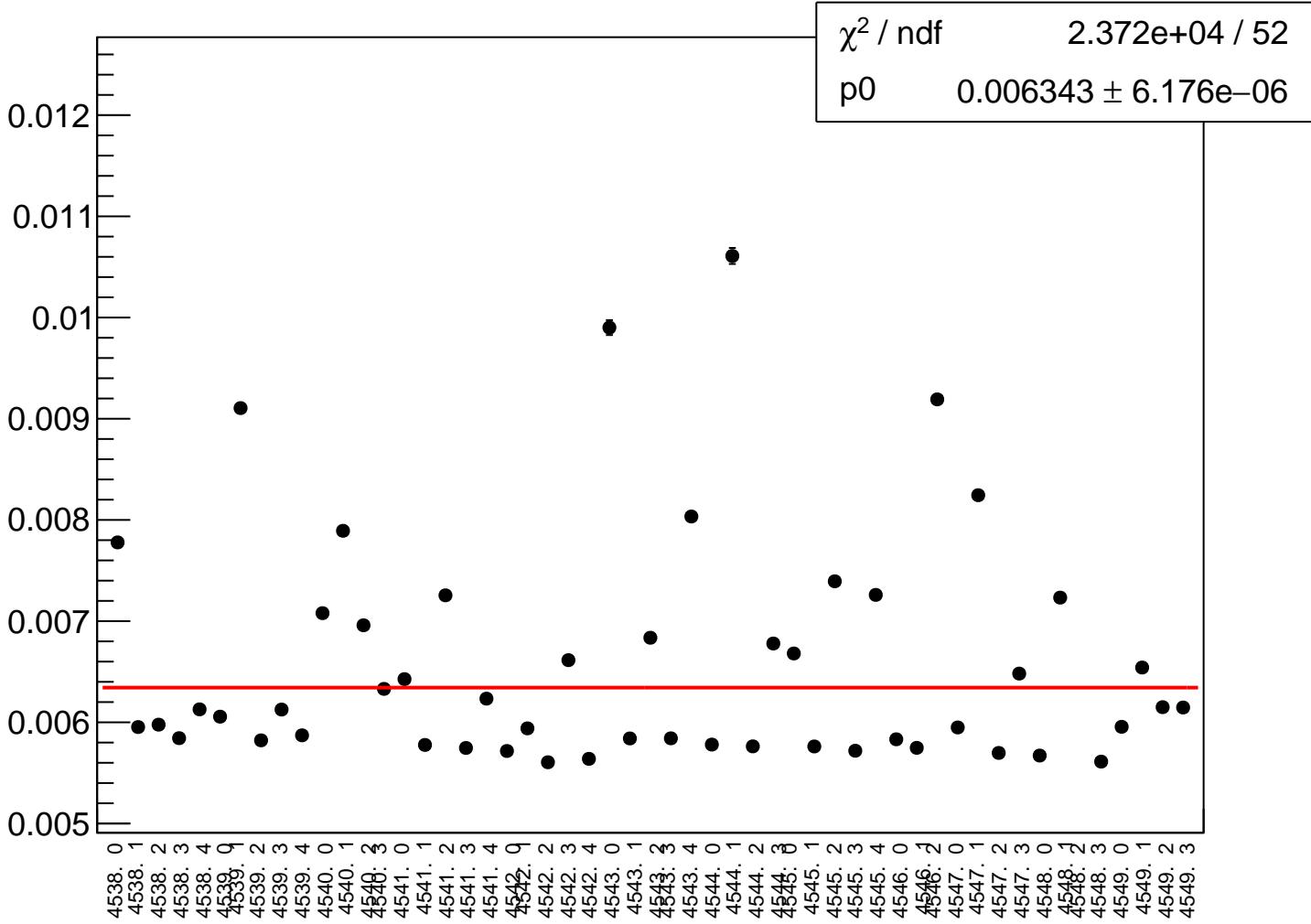
# yield\_bpm12Y\_rms vs run



# yield\_bpm16X\_mean vs run

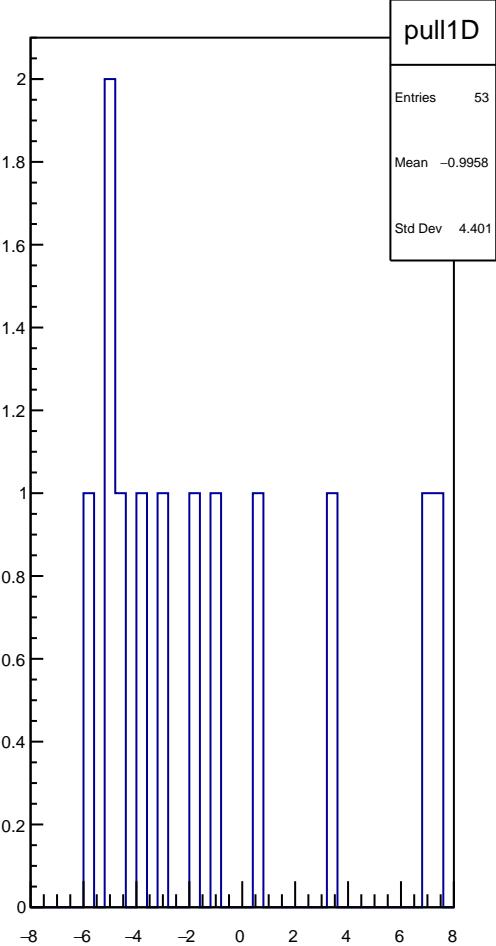
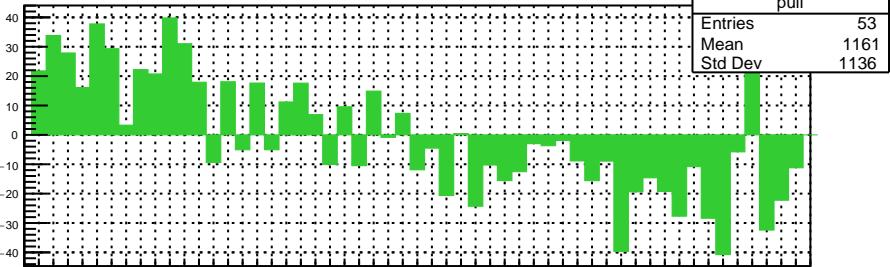
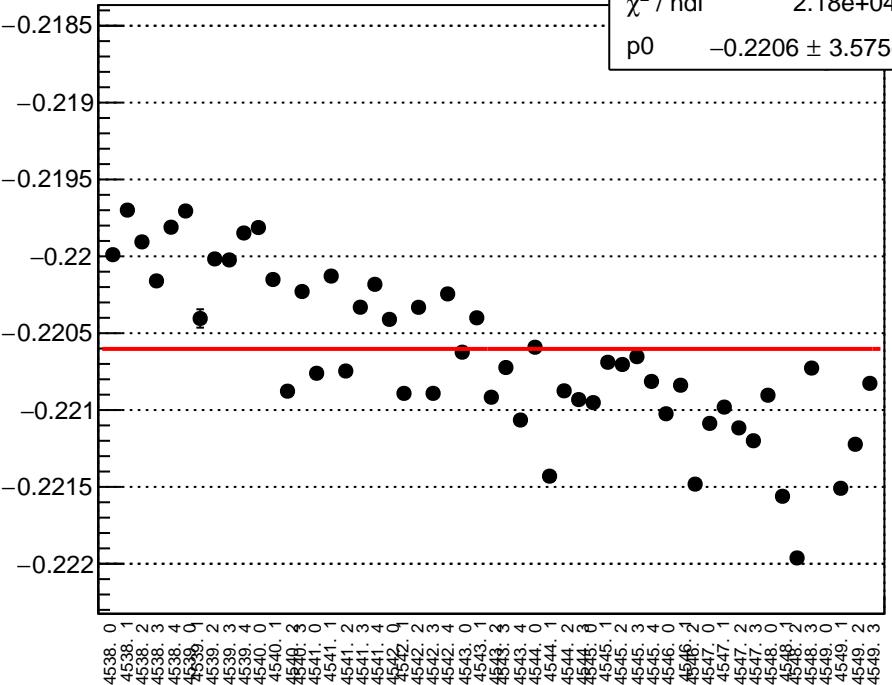


# yield\_bpm16X\_rms vs run

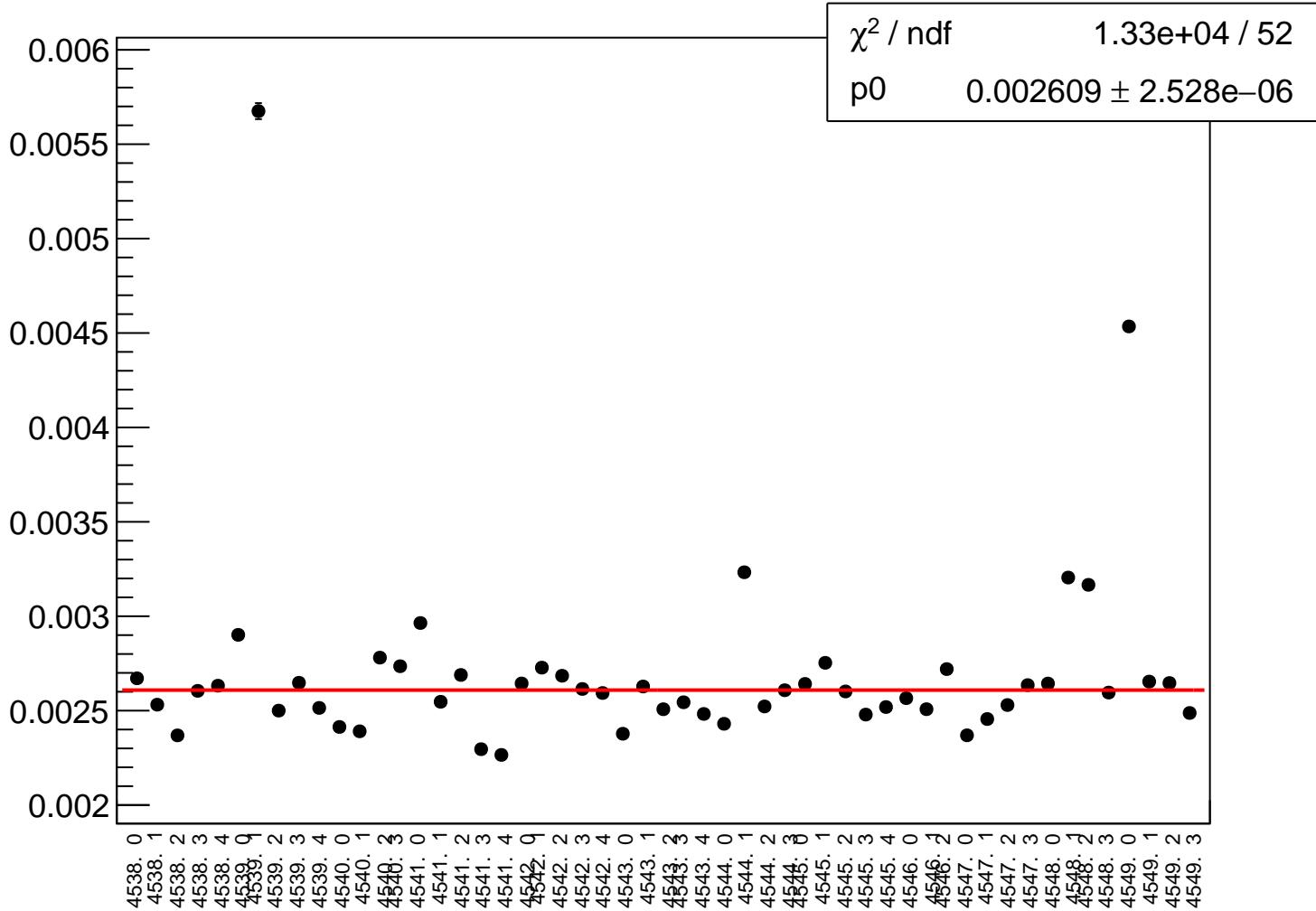


# yield\_bpm16Y\_mean vs run

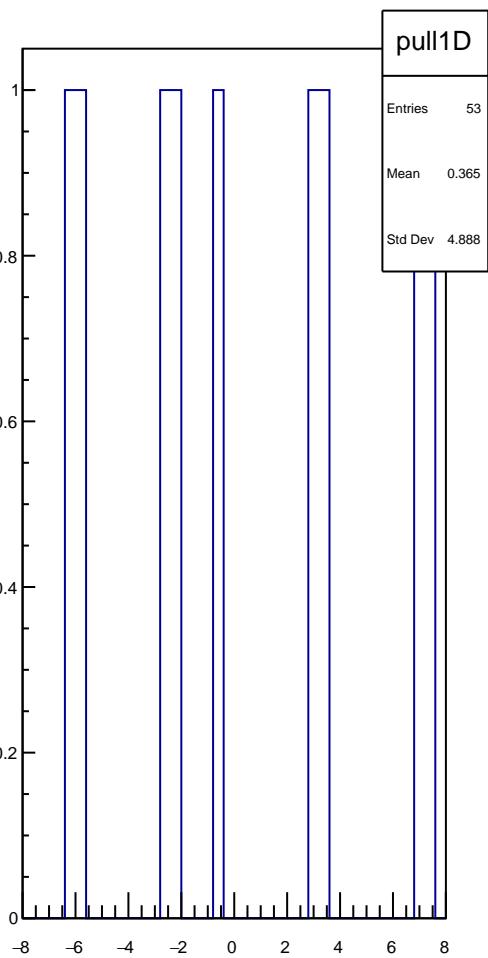
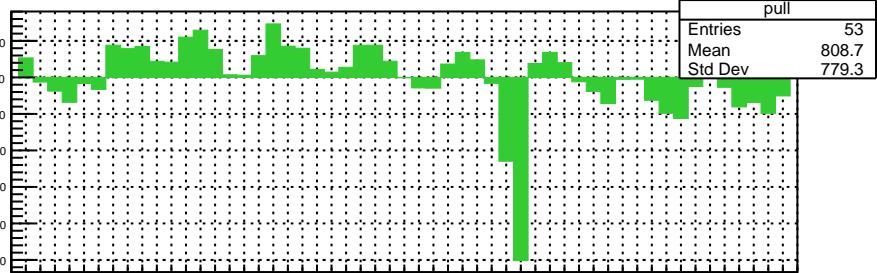
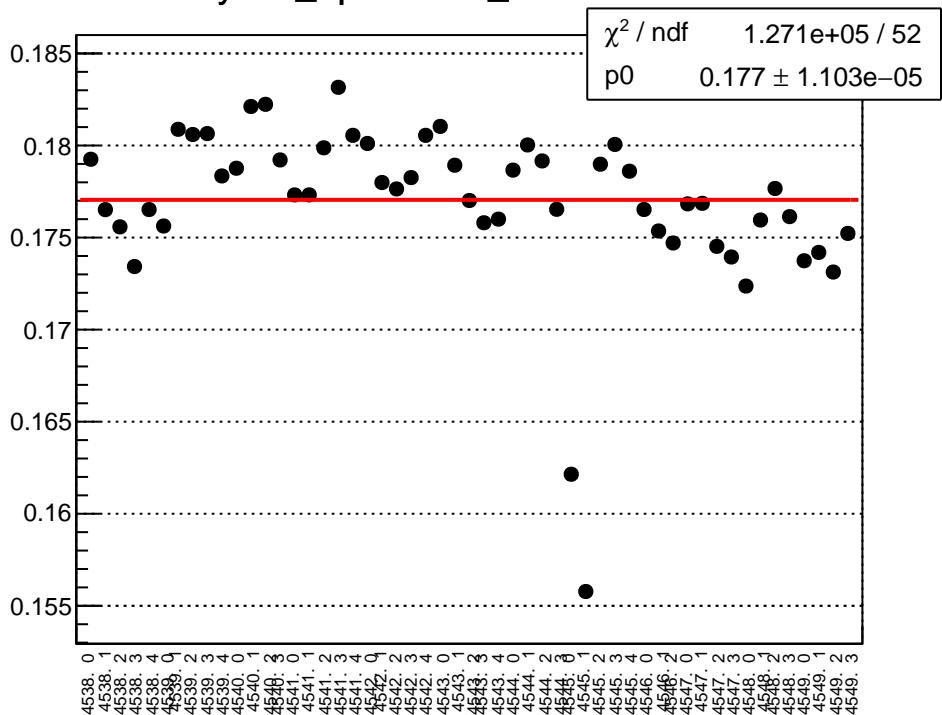
$\chi^2 / \text{ndf}$  2.18e+04 / 52  
p0  $-0.2206 \pm 3.575\text{e}{-06}$



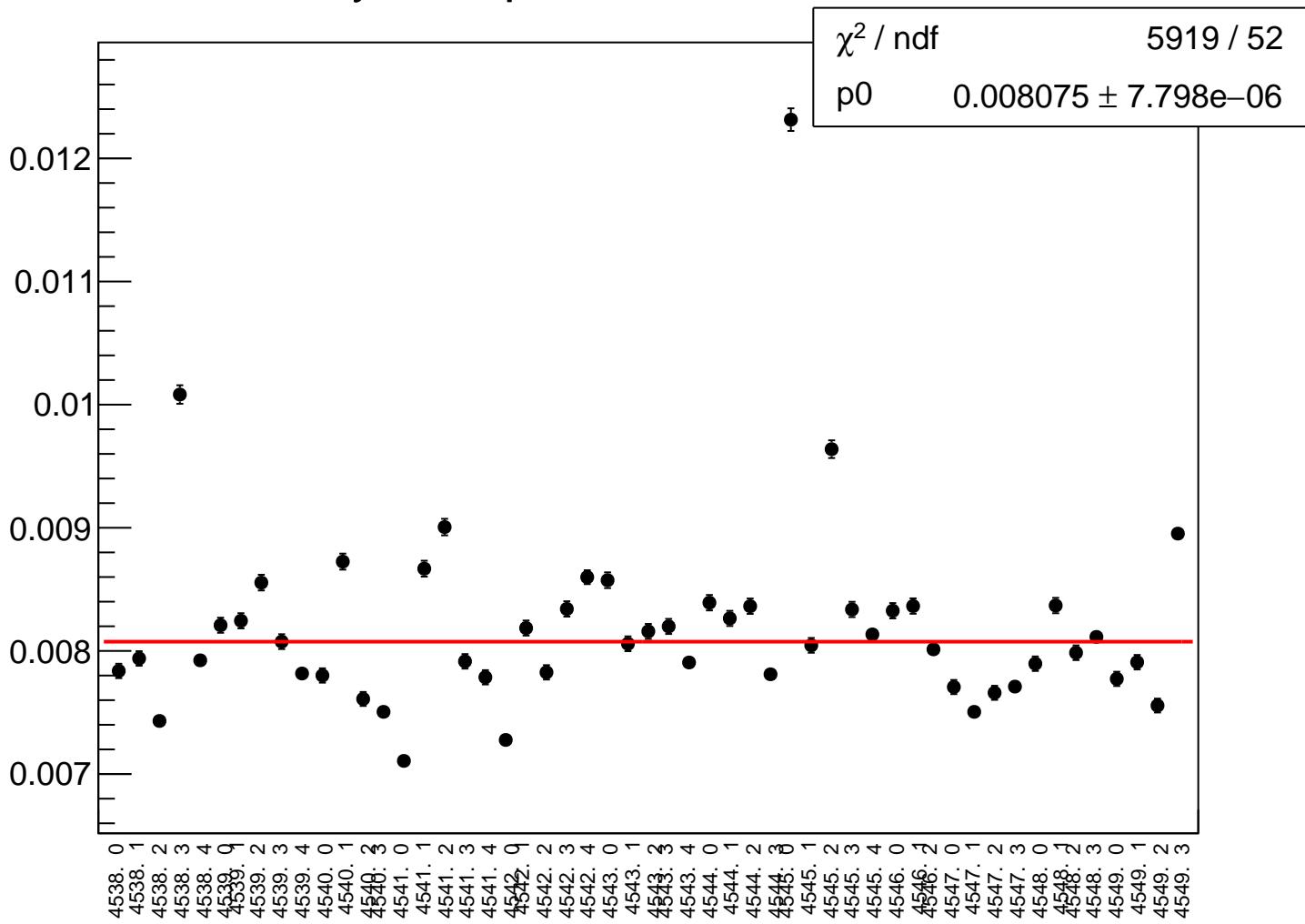
# yield\_bpm16Y\_rms vs run



# yield\_bpm2i01X\_mean vs run

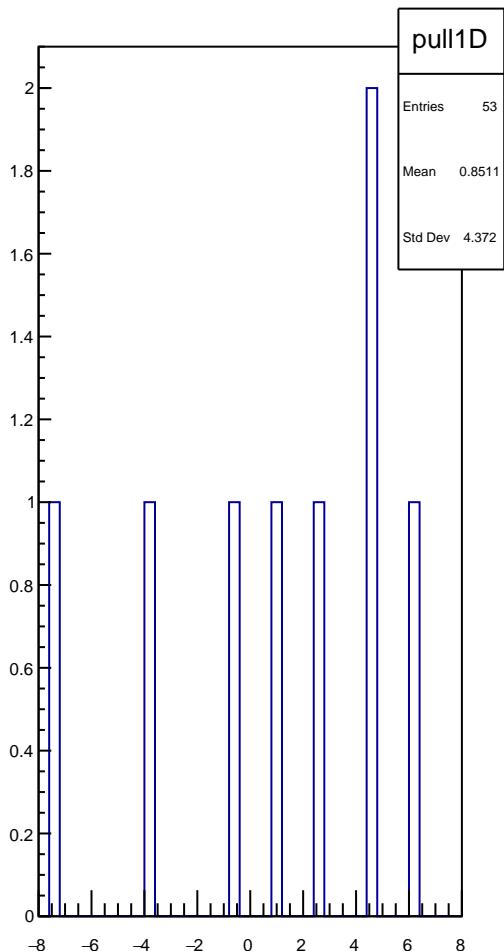
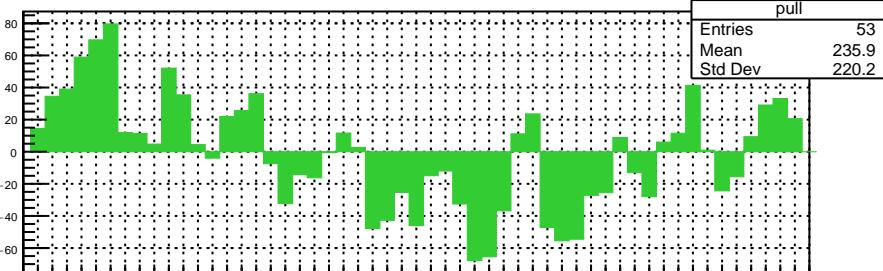
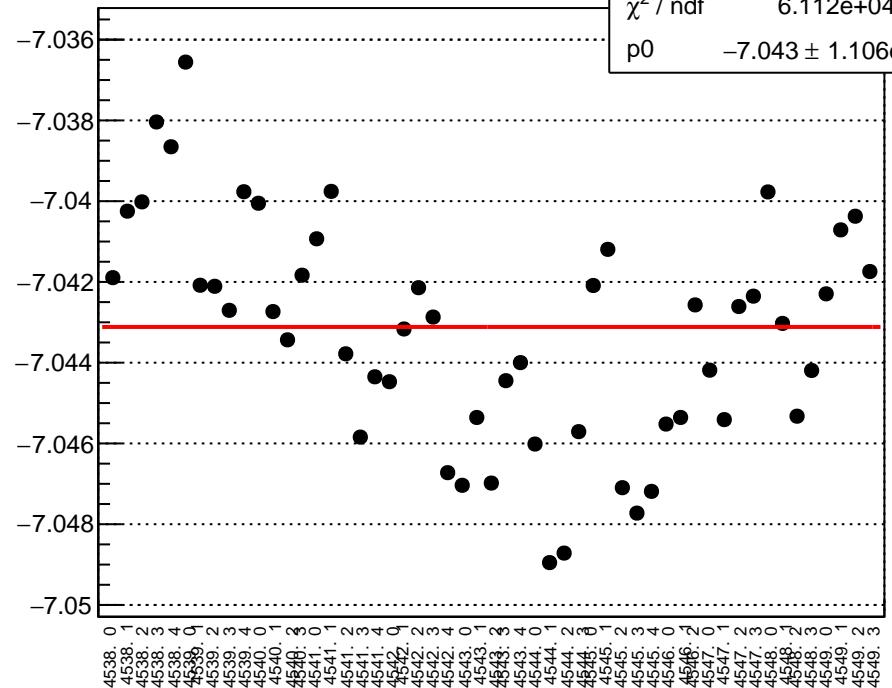


# yield\_bpm2i01X\_rms vs run

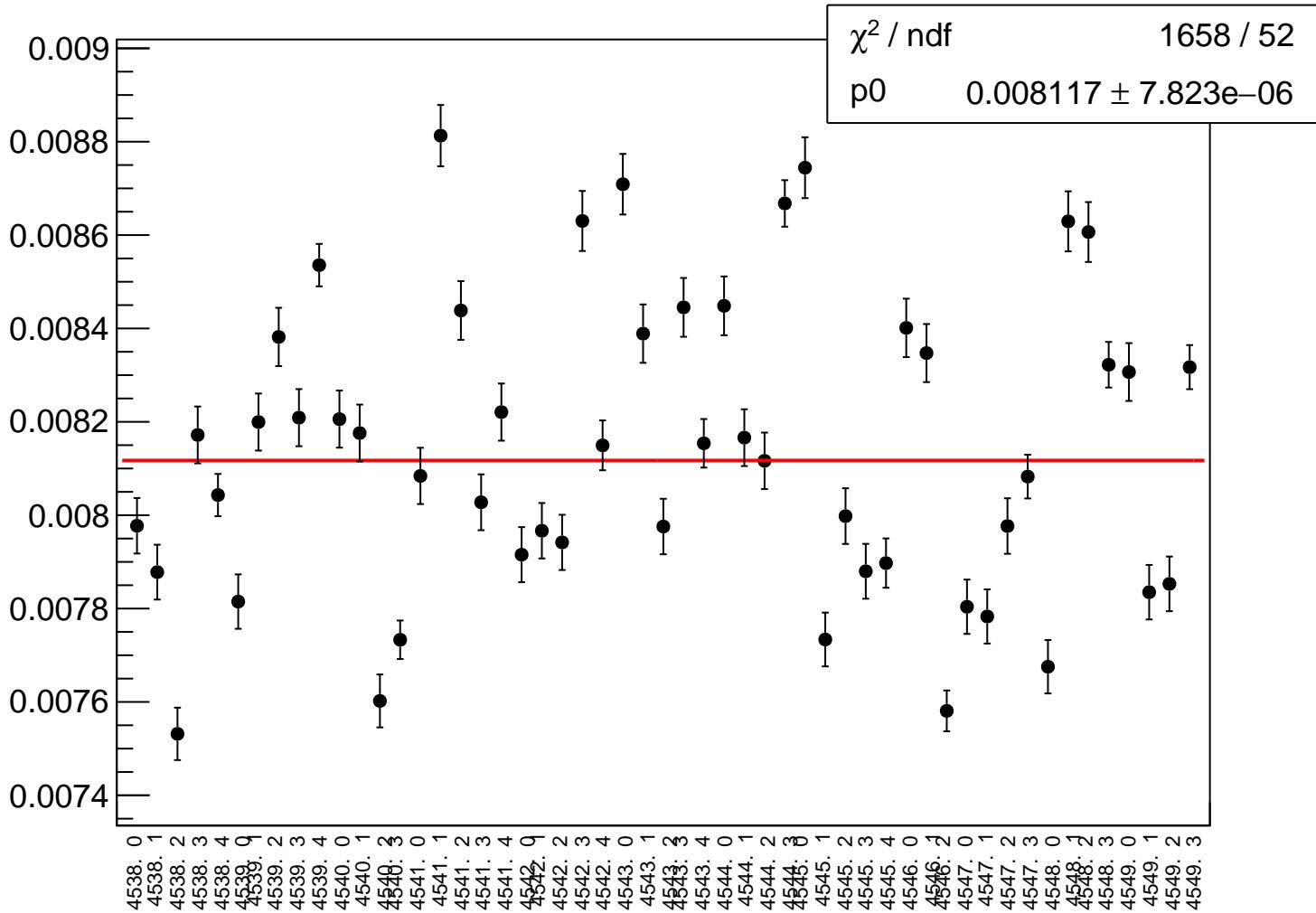


# yield\_bpm2i01Y\_mean vs run

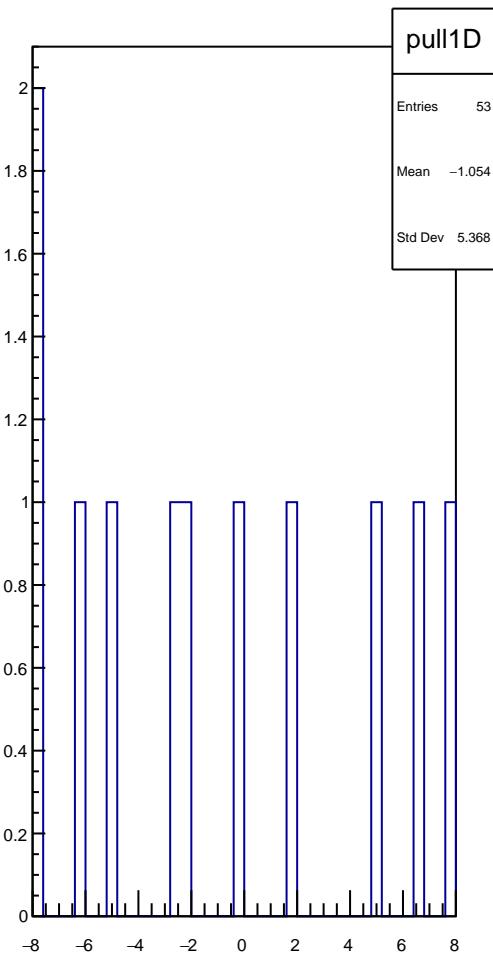
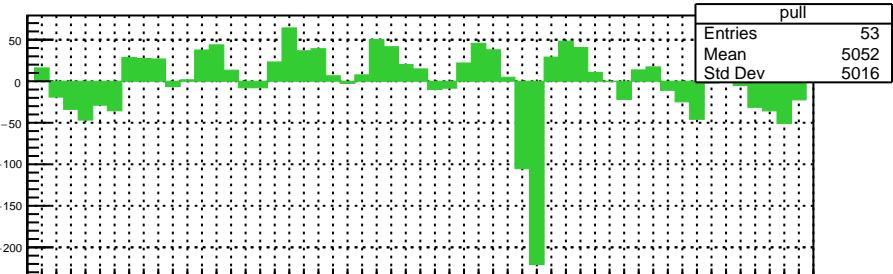
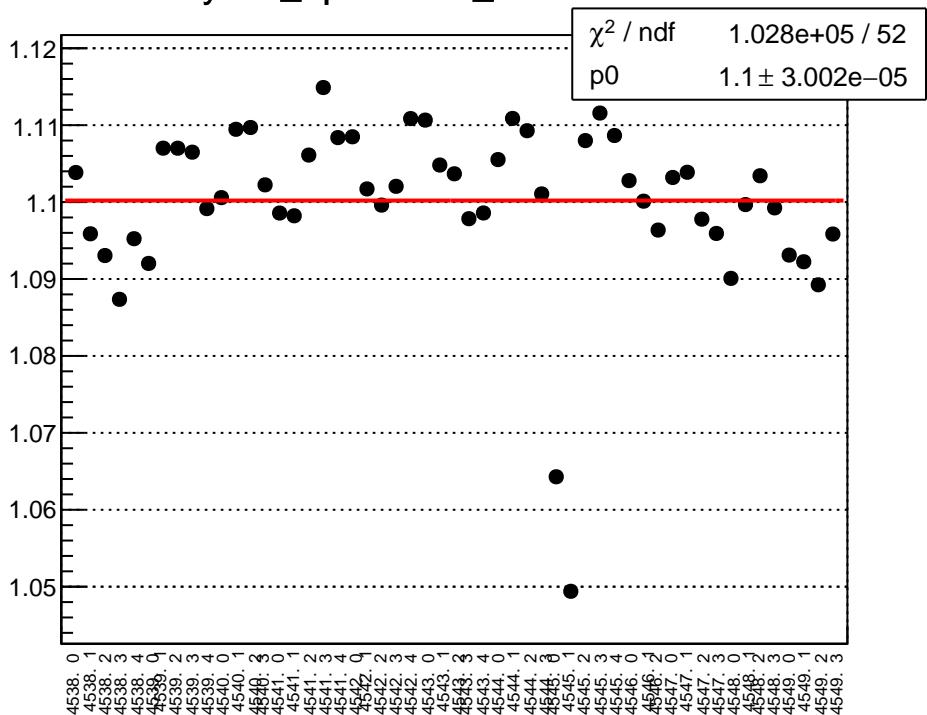
$\chi^2 / \text{ndf}$  6.112e+04 / 52  
 $p0$   $-7.043 \pm 1.106\text{e}{-05}$



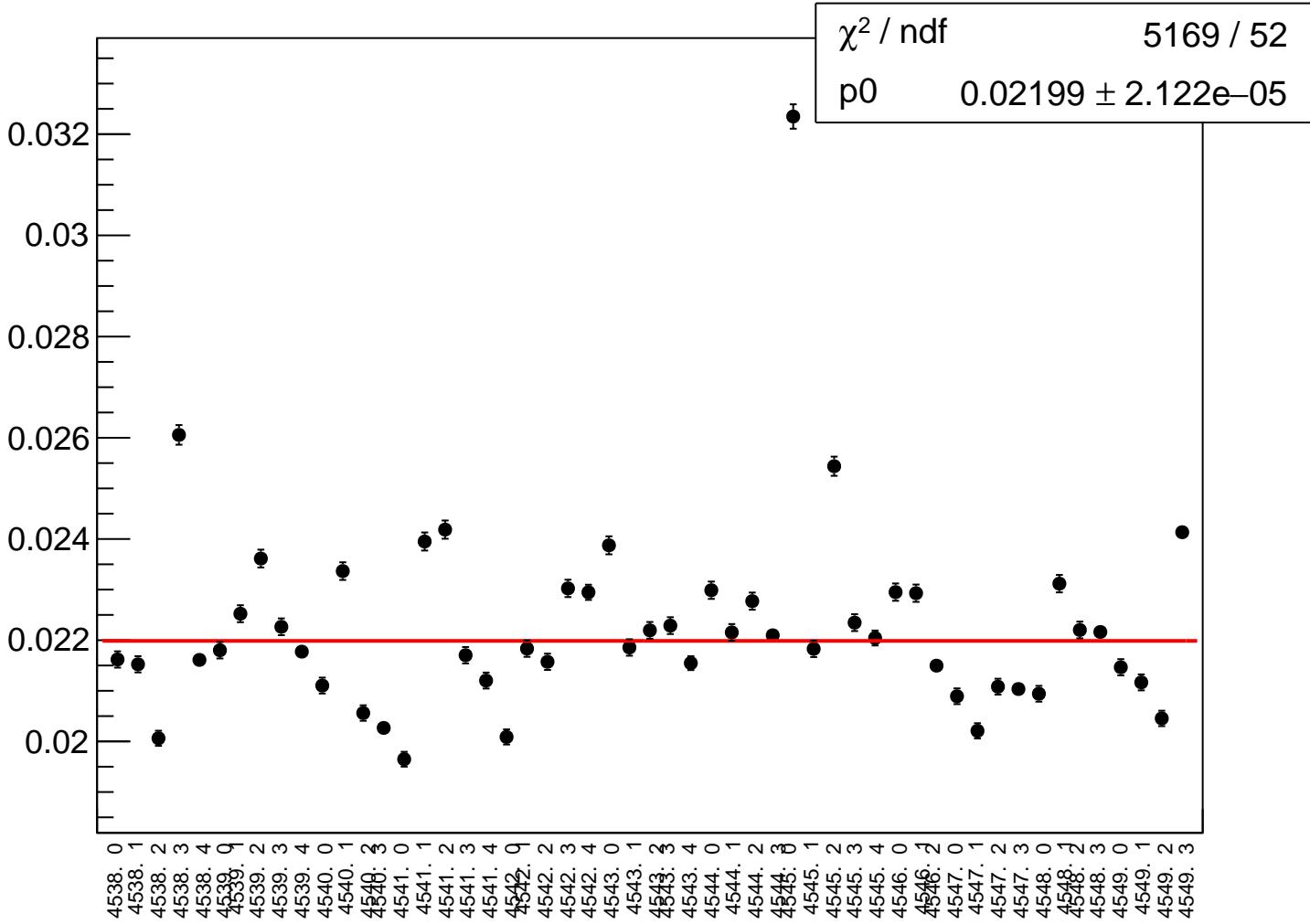
# yield\_bpm2i01Y\_rms vs run



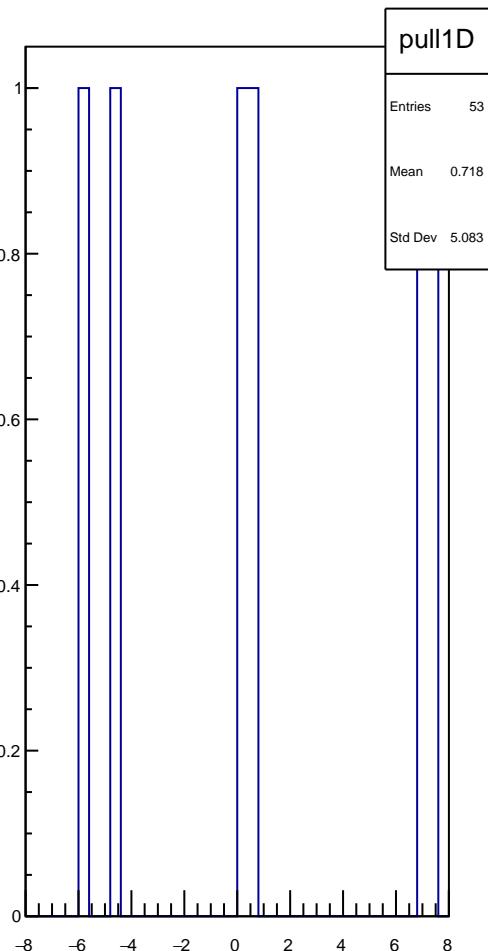
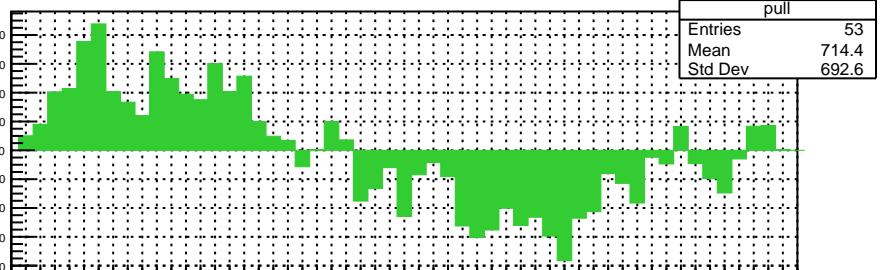
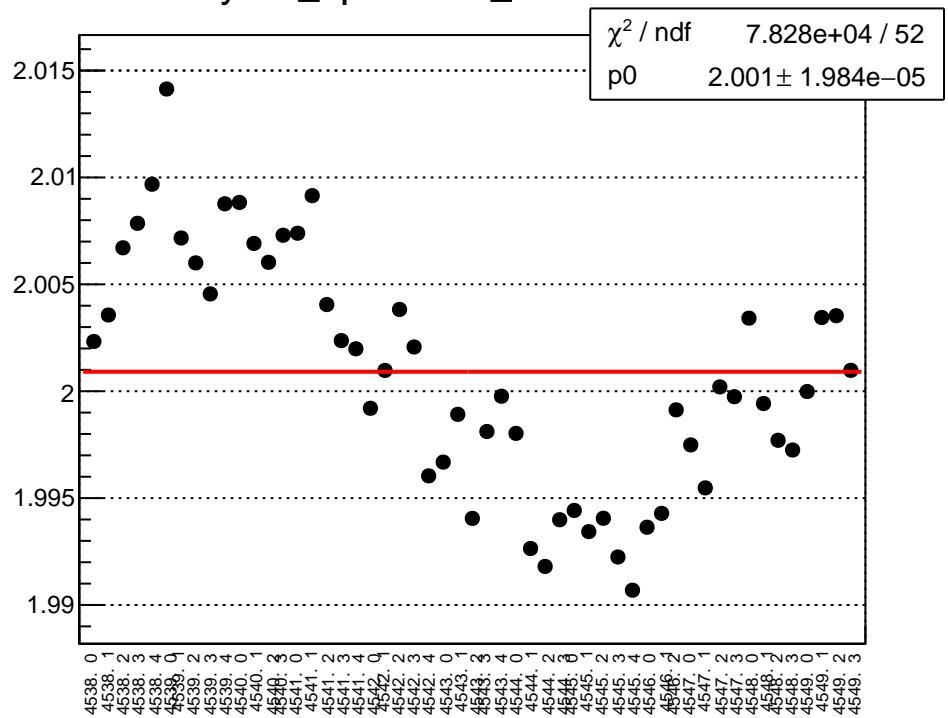
# yield\_bpm2i02X\_mean vs run



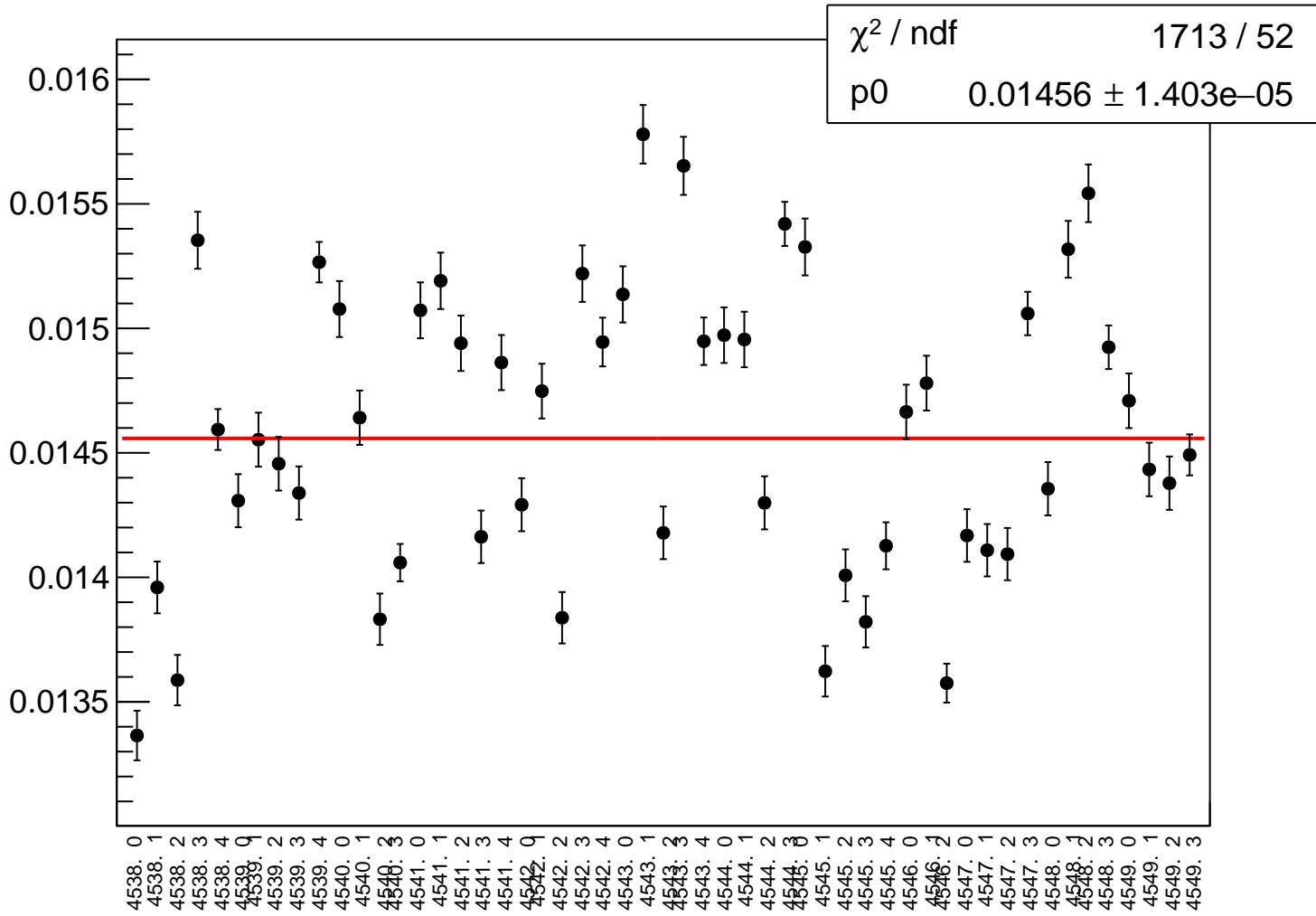
# yield\_bpm2i02X\_rms vs run



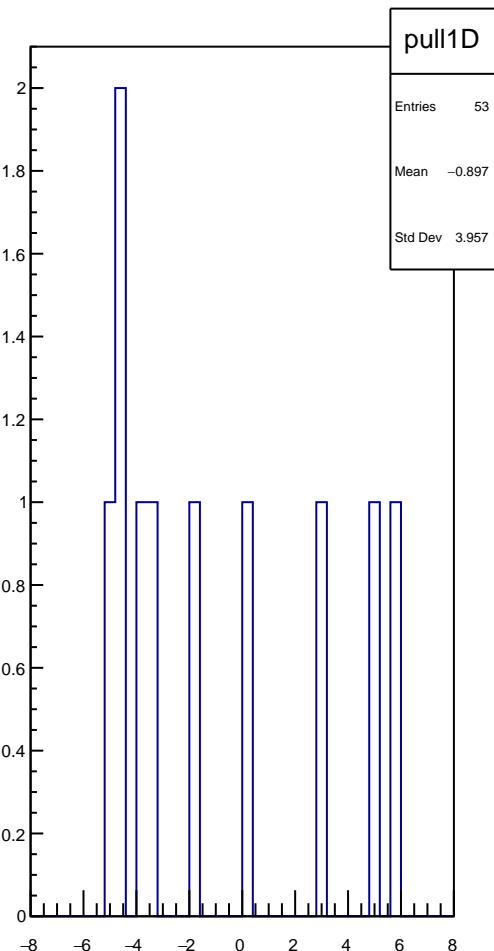
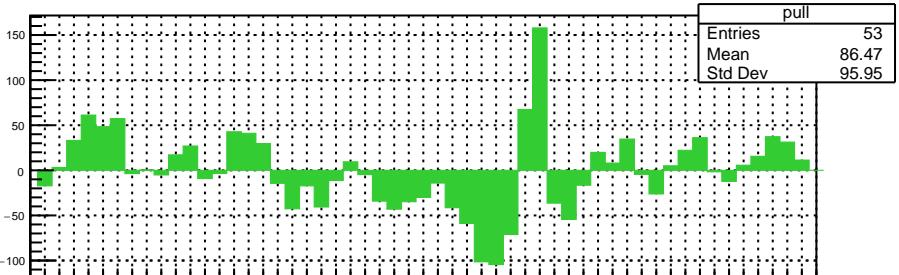
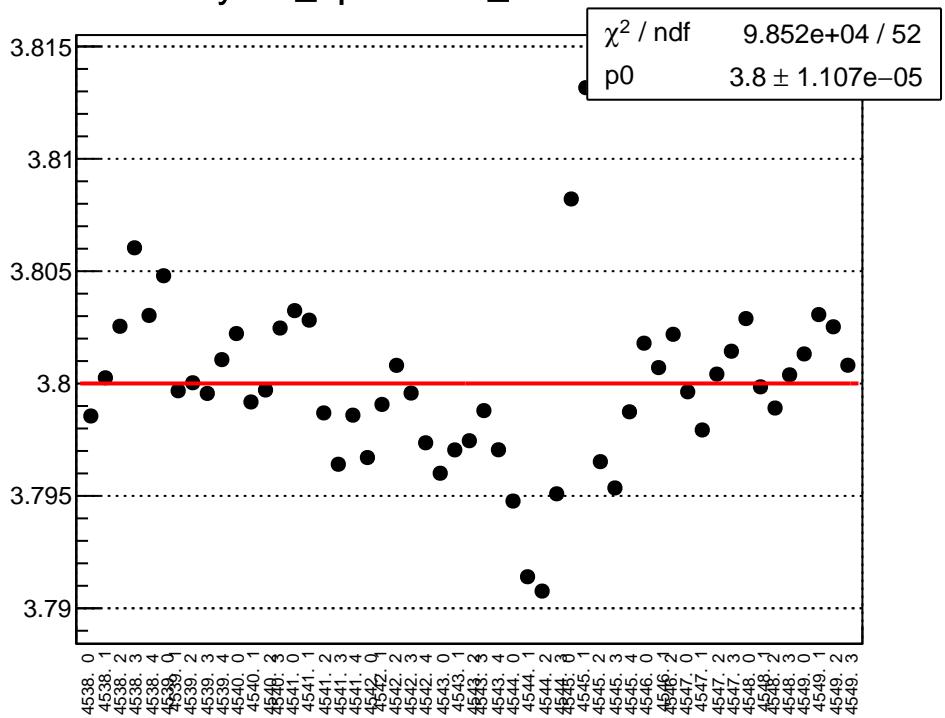
# yield\_bpm2i02Y\_mean vs run



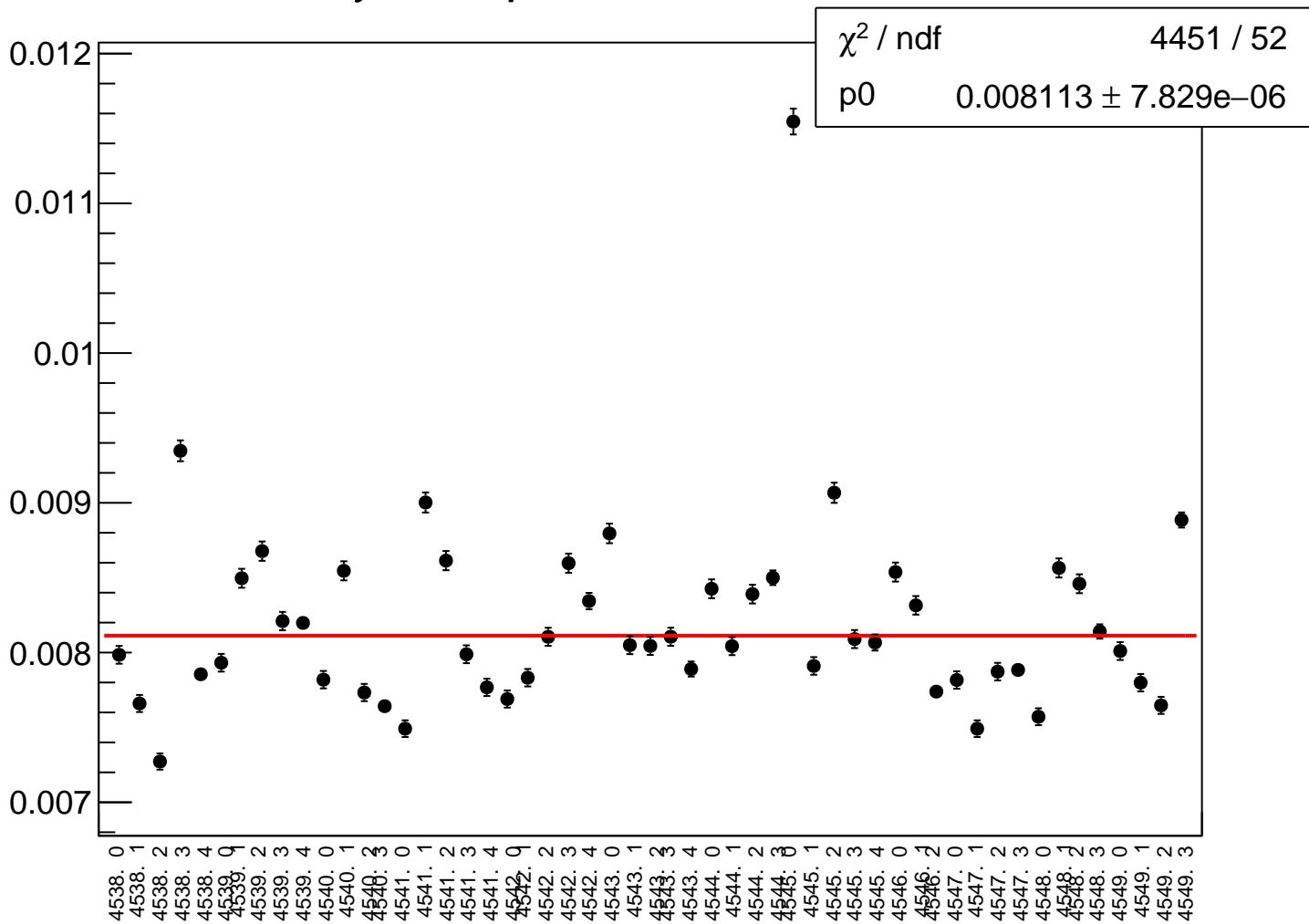
# yield\_bpm2i02Y\_rms vs run



# yield\_bpm1i04X\_mean vs run

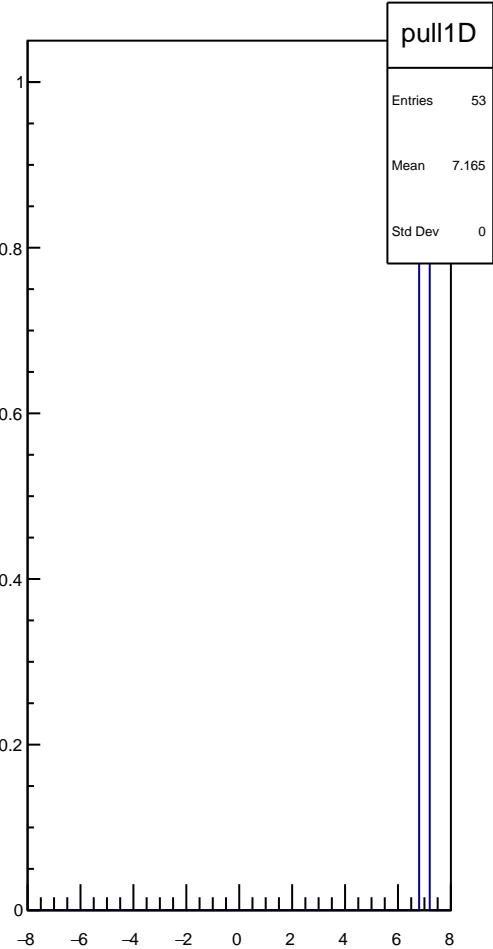
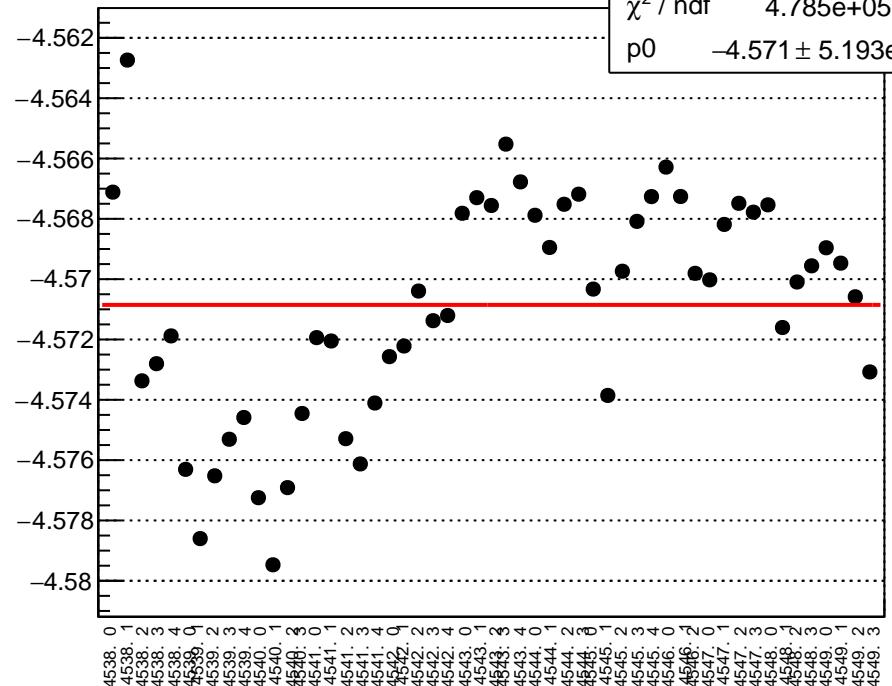


# yield\_bpm1i04X\_rms vs run

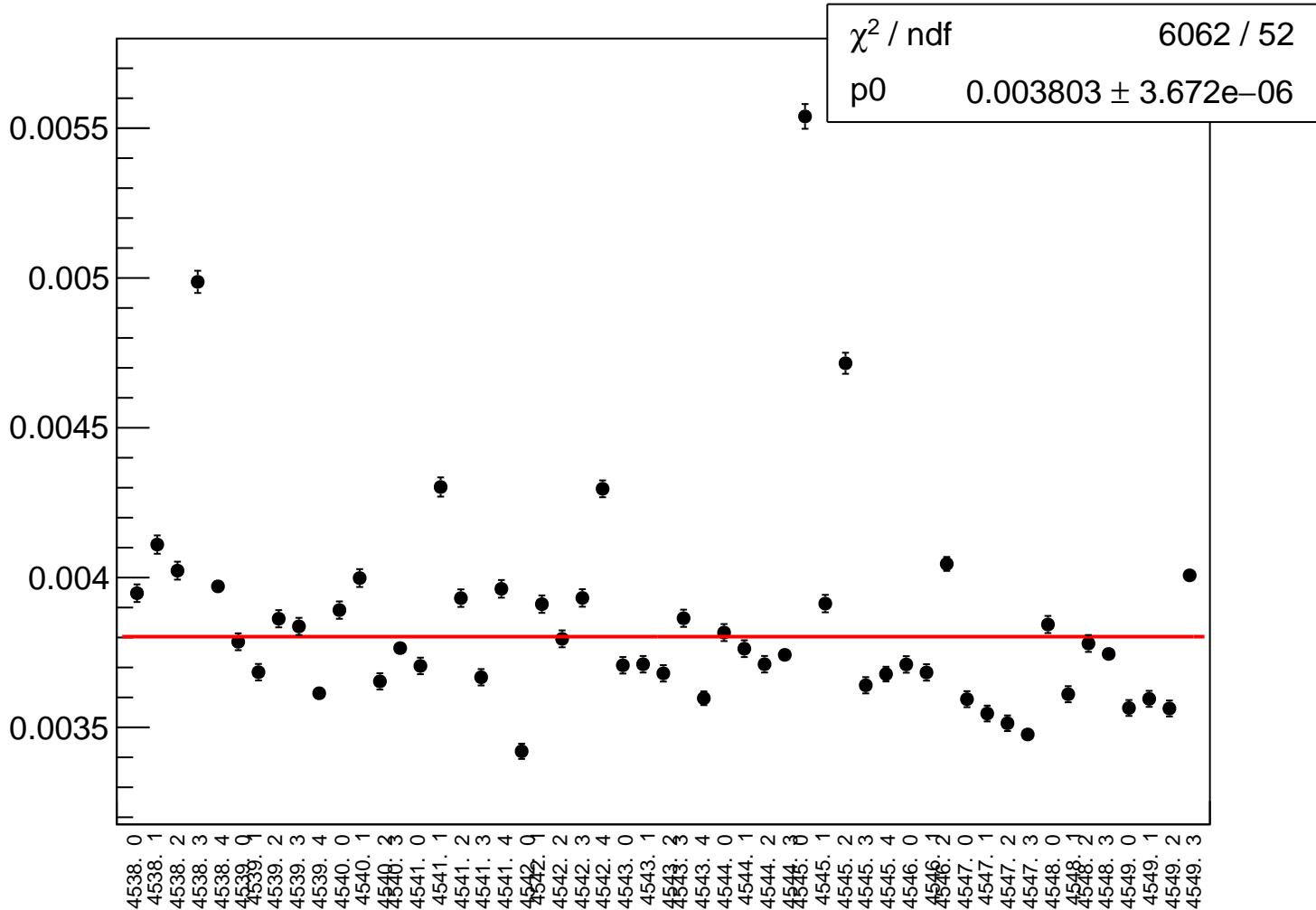


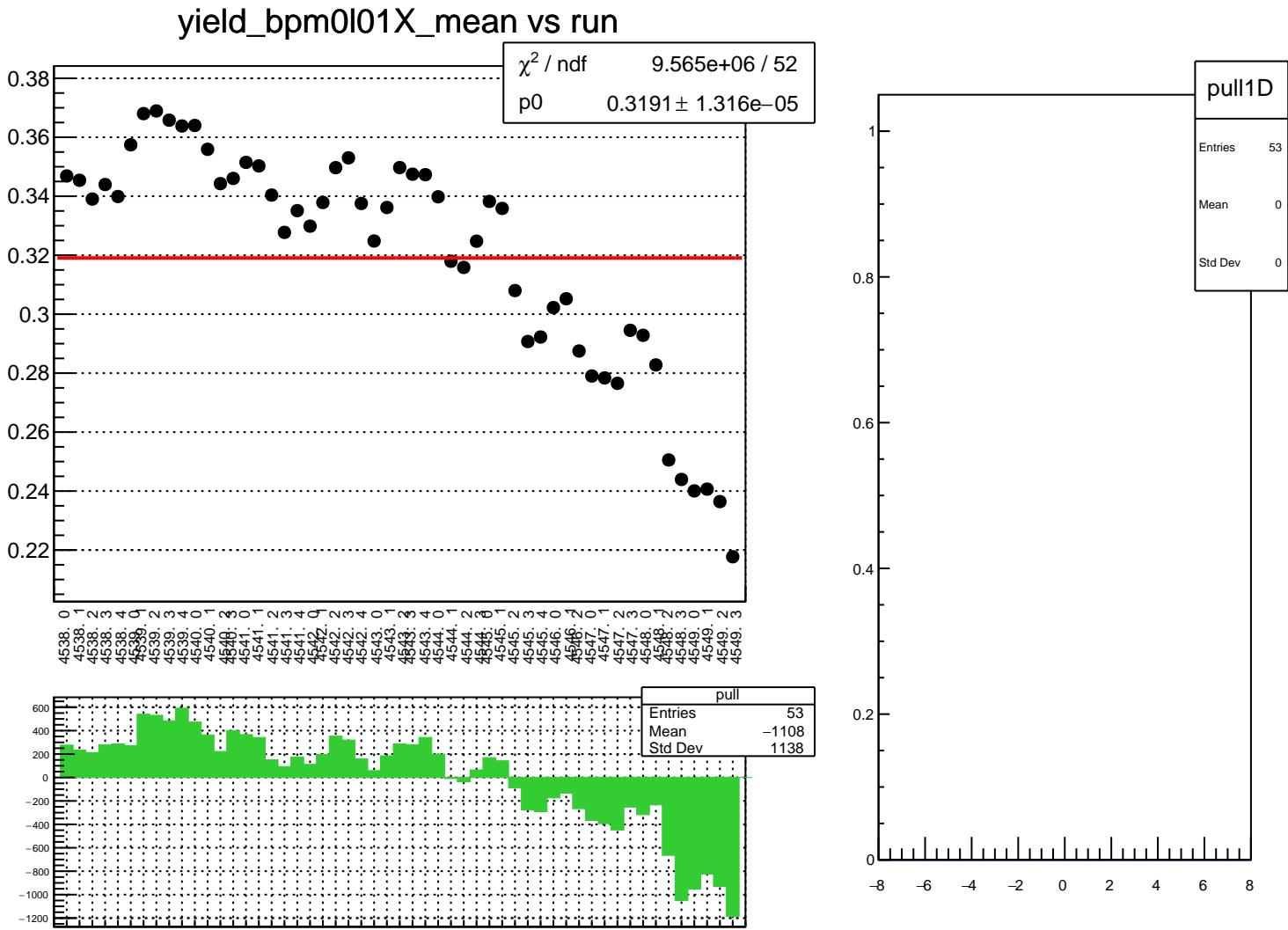
# yield\_bpm1i04Y\_mean vs run

$\chi^2 / \text{ndf}$  4.785e+05 / 52  
 $p_0$   $-4.571 \pm 5.193 \times 10^{-6}$

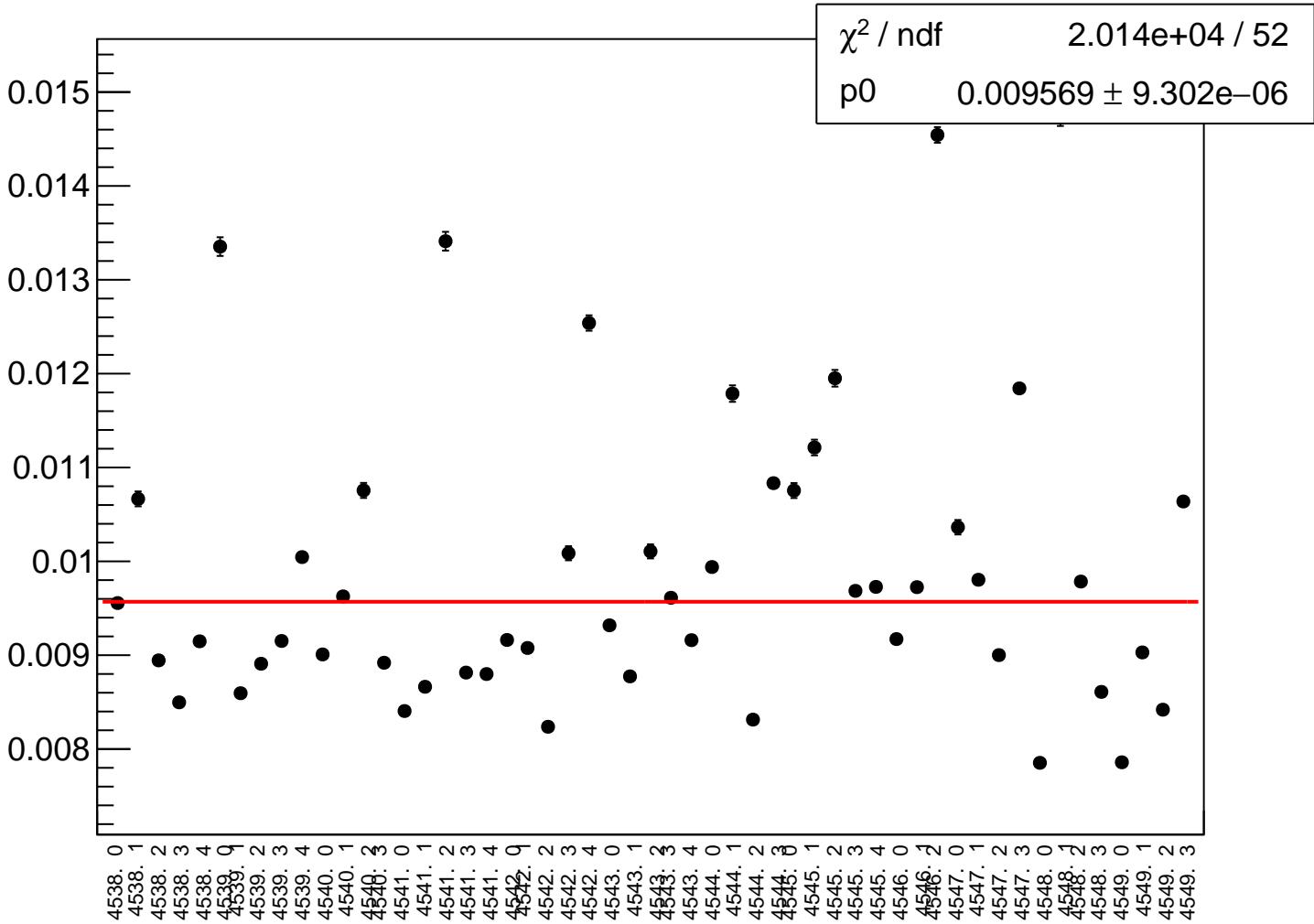


# yield\_bpm1i04Y\_rms vs run



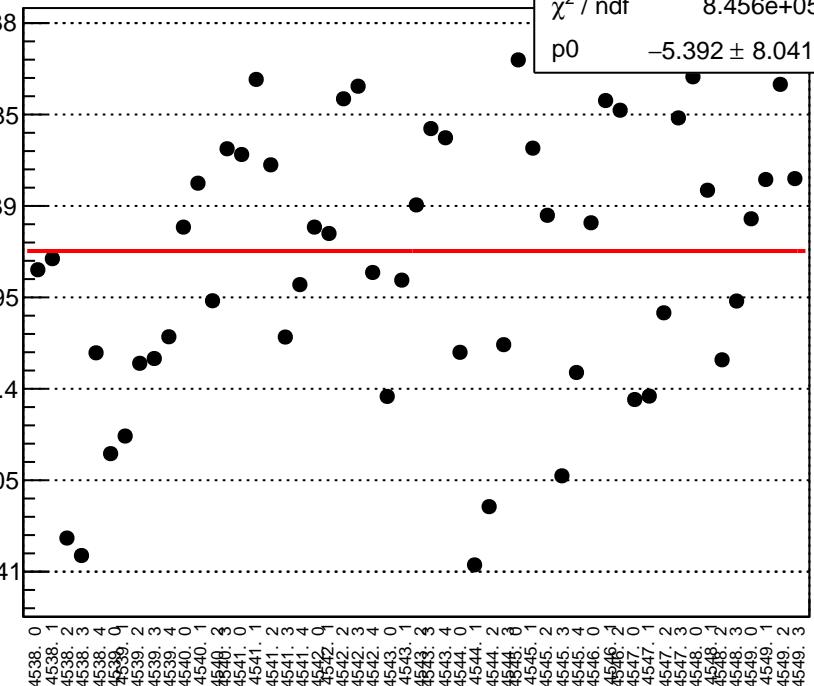


# yield\_bpm0l01X\_rms vs run

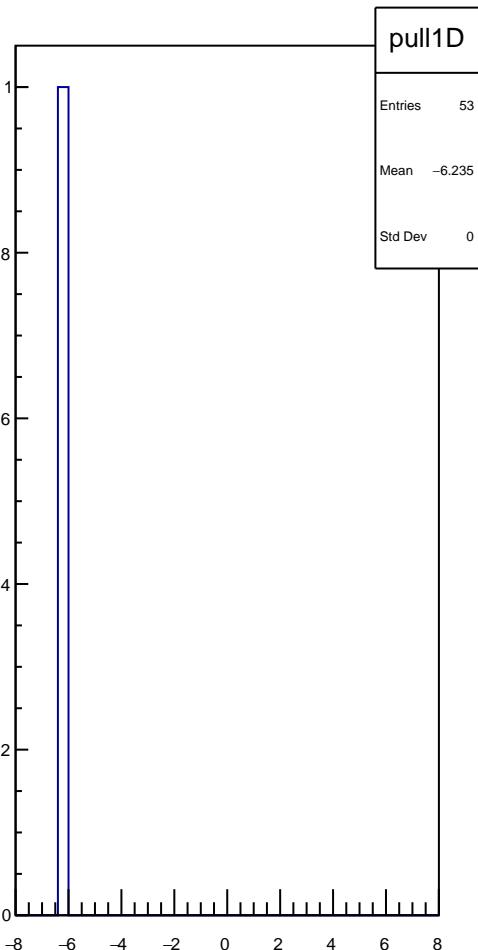
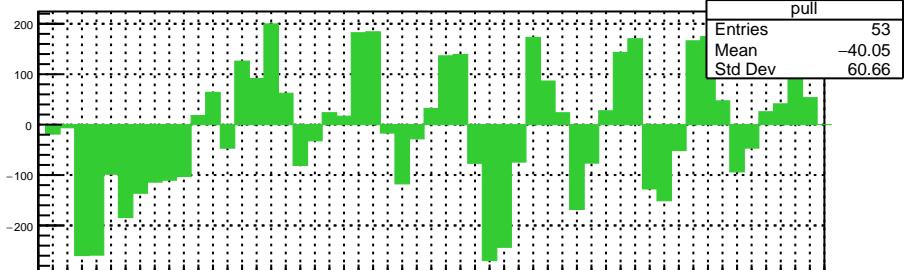




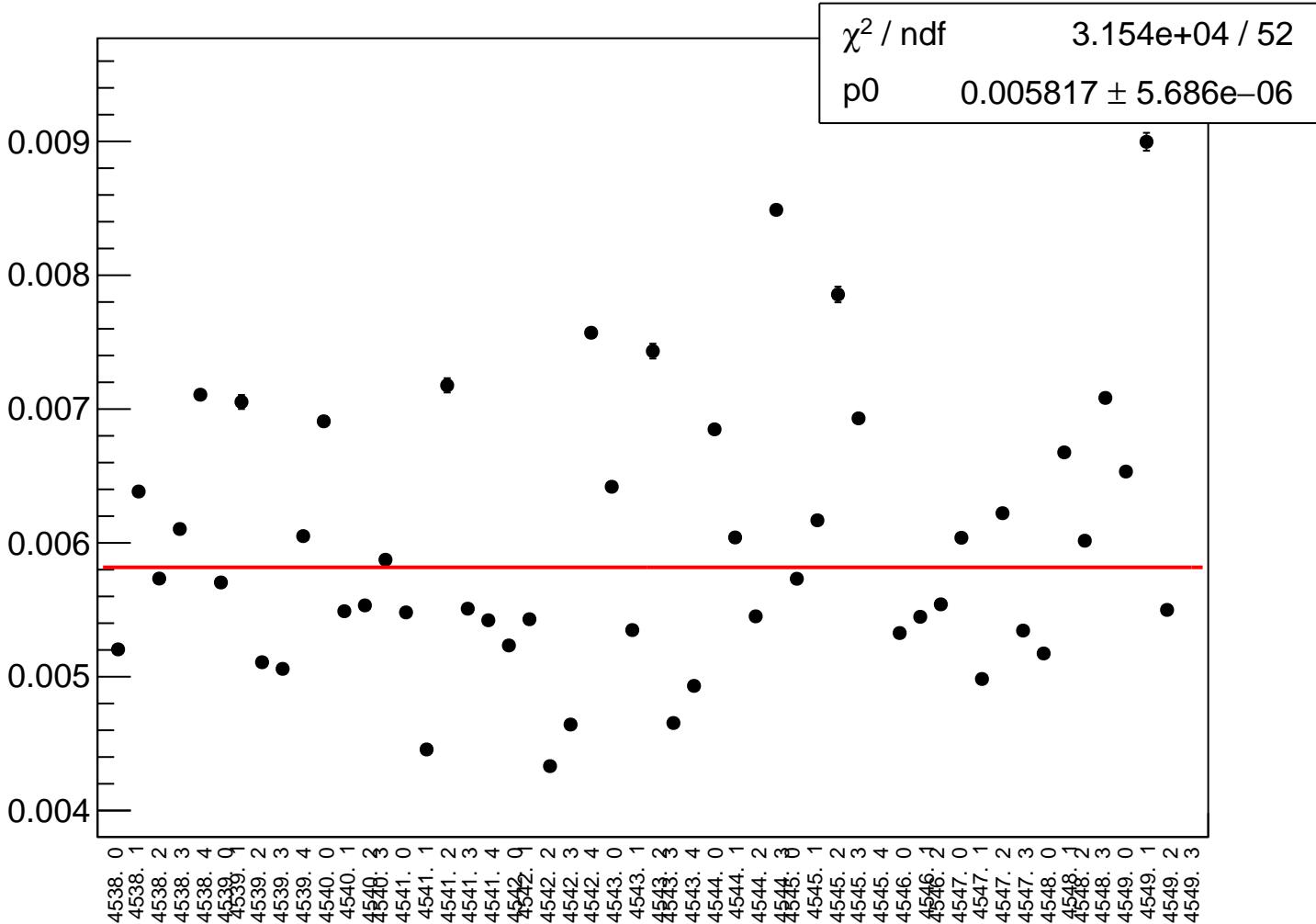
$$8.456\text{e+}05 / 52$$

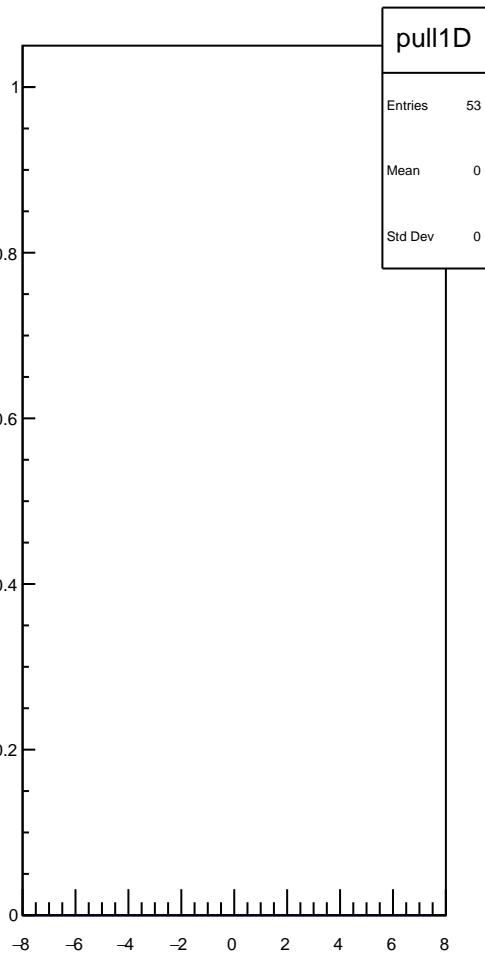
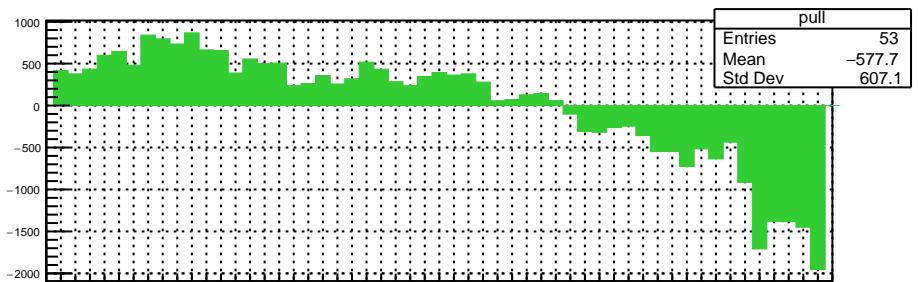
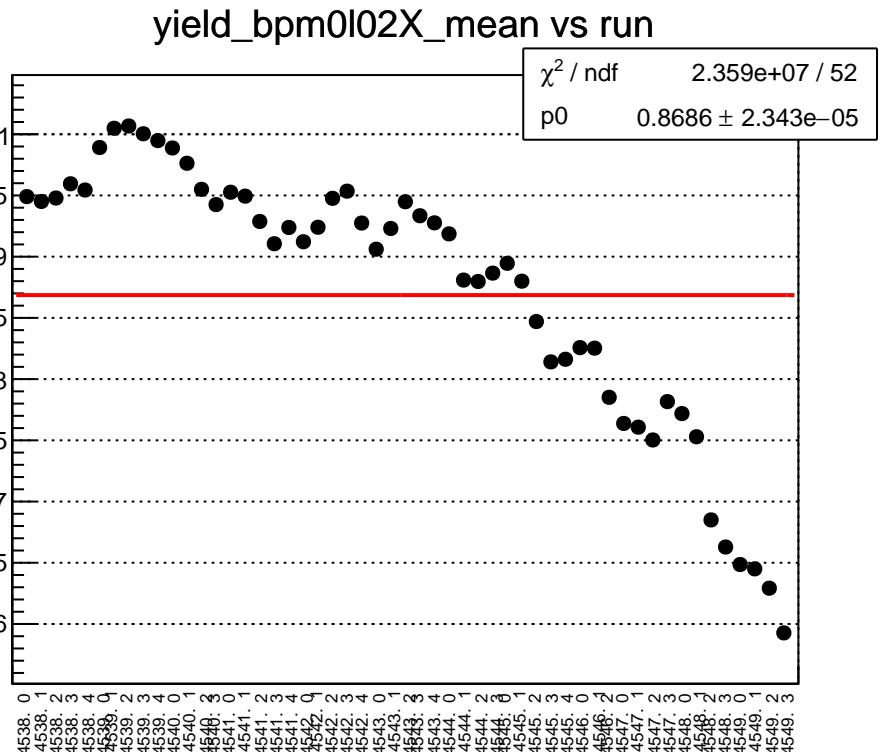


```
          pull  
Entries      53
```

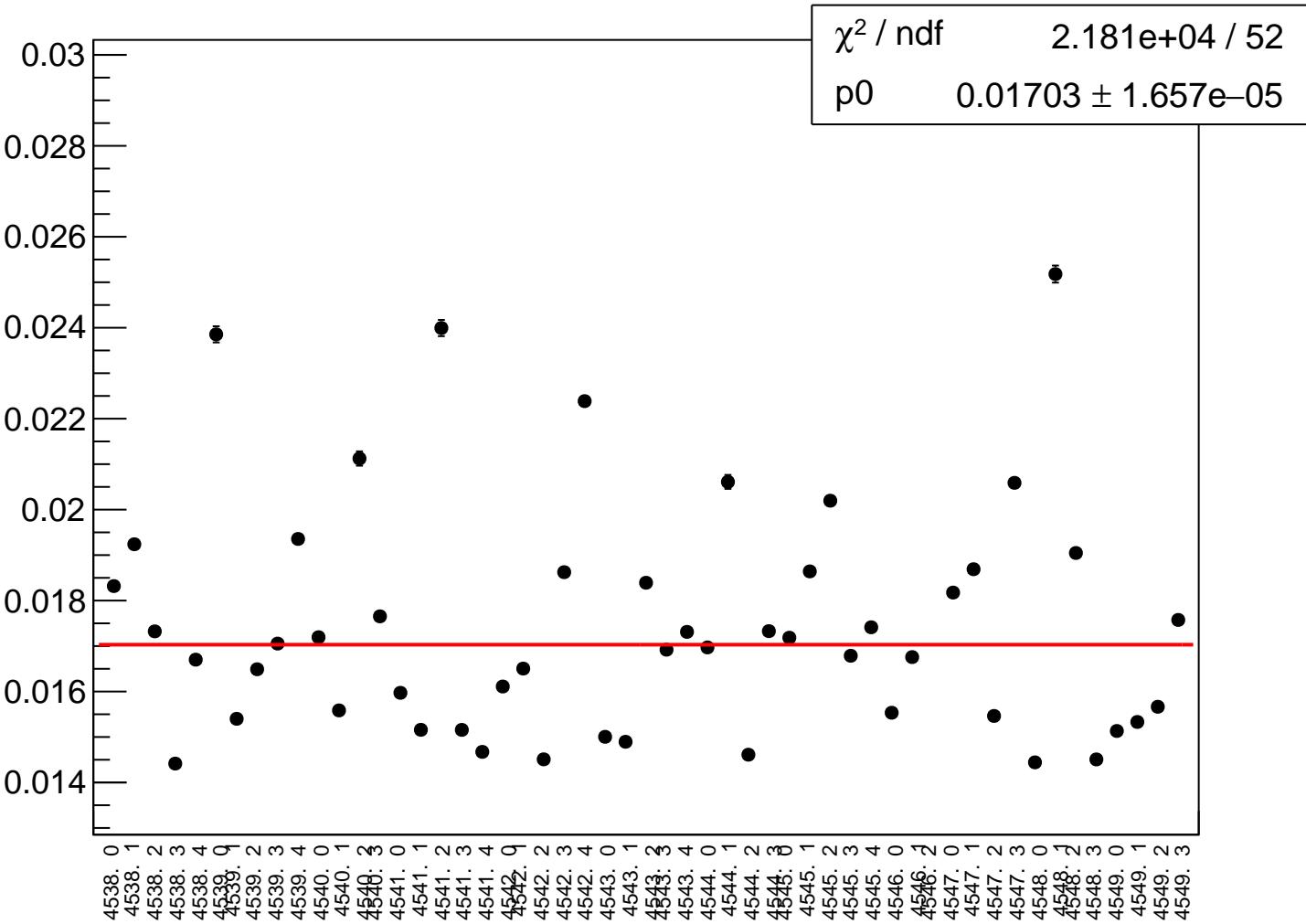


# yield\_bpm0l01Y\_rms vs run

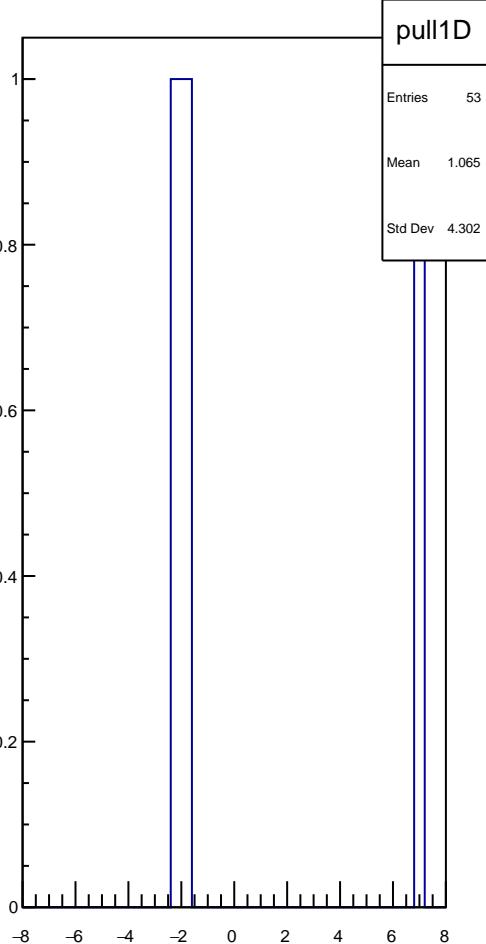
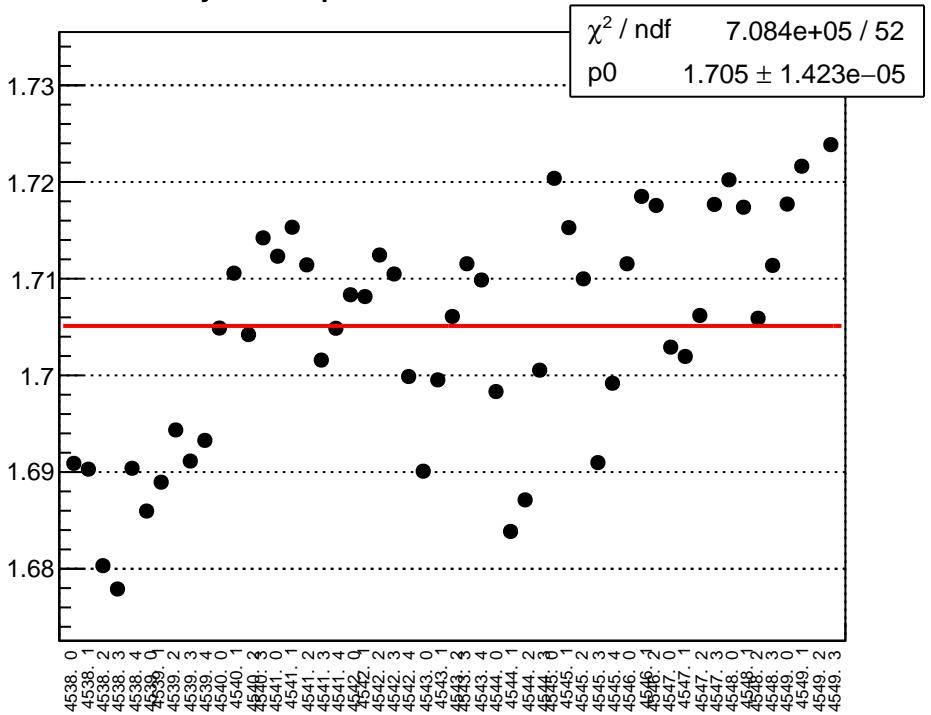




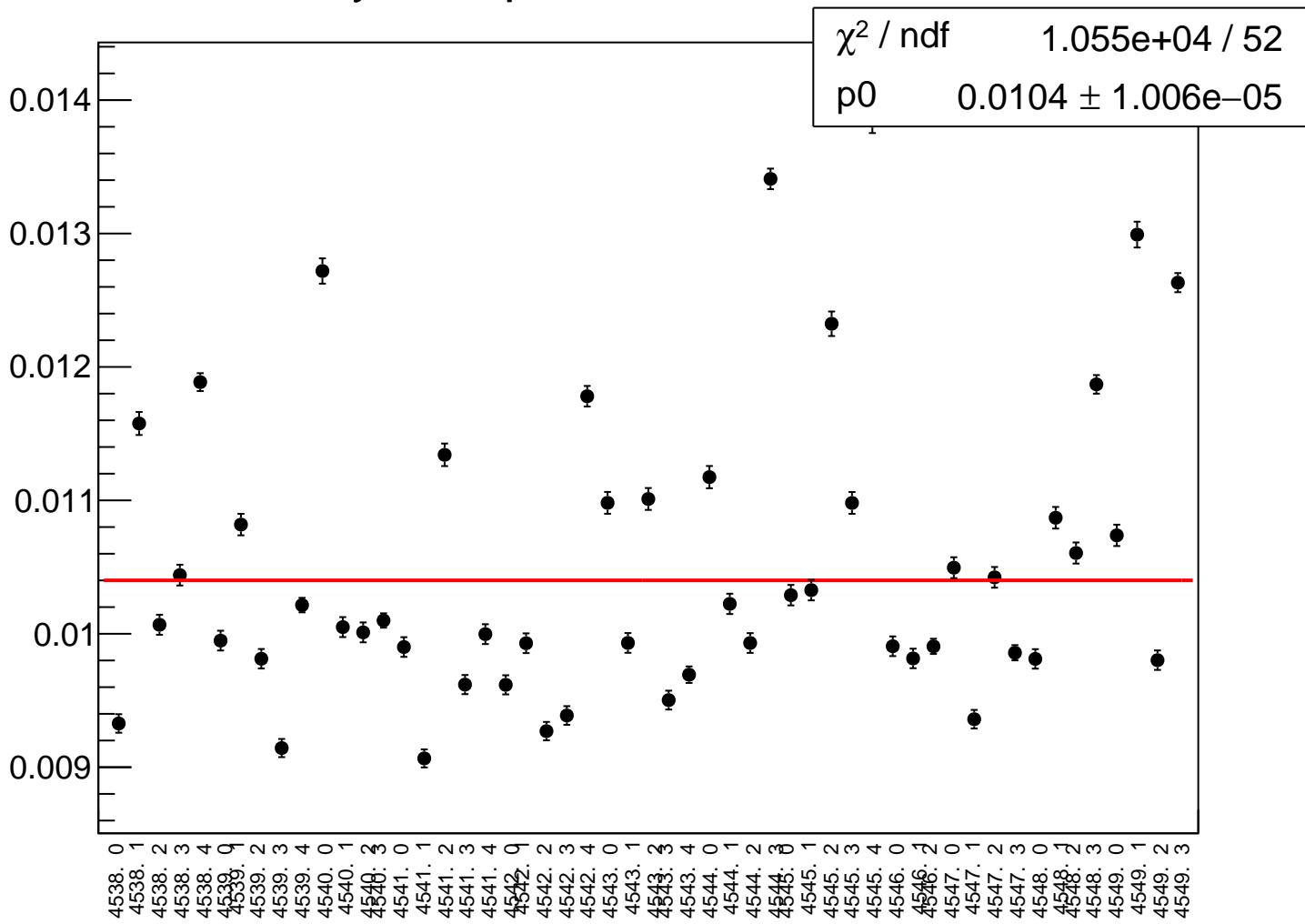
# yield\_bpm0l02X\_rms vs run



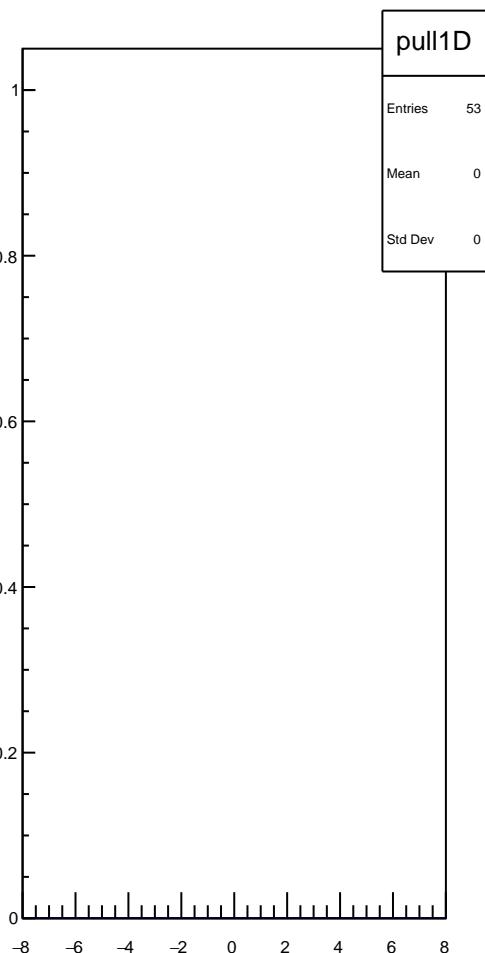
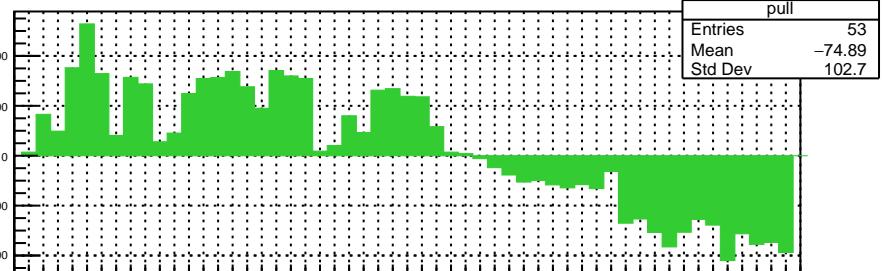
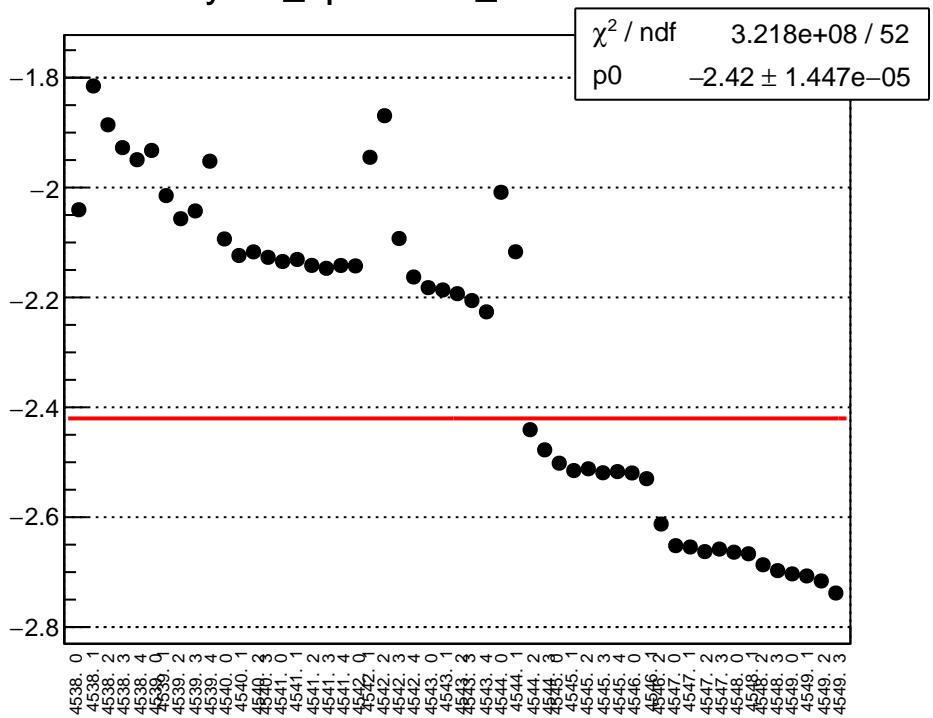
# yield\_bpm0I02Y\_mean vs run



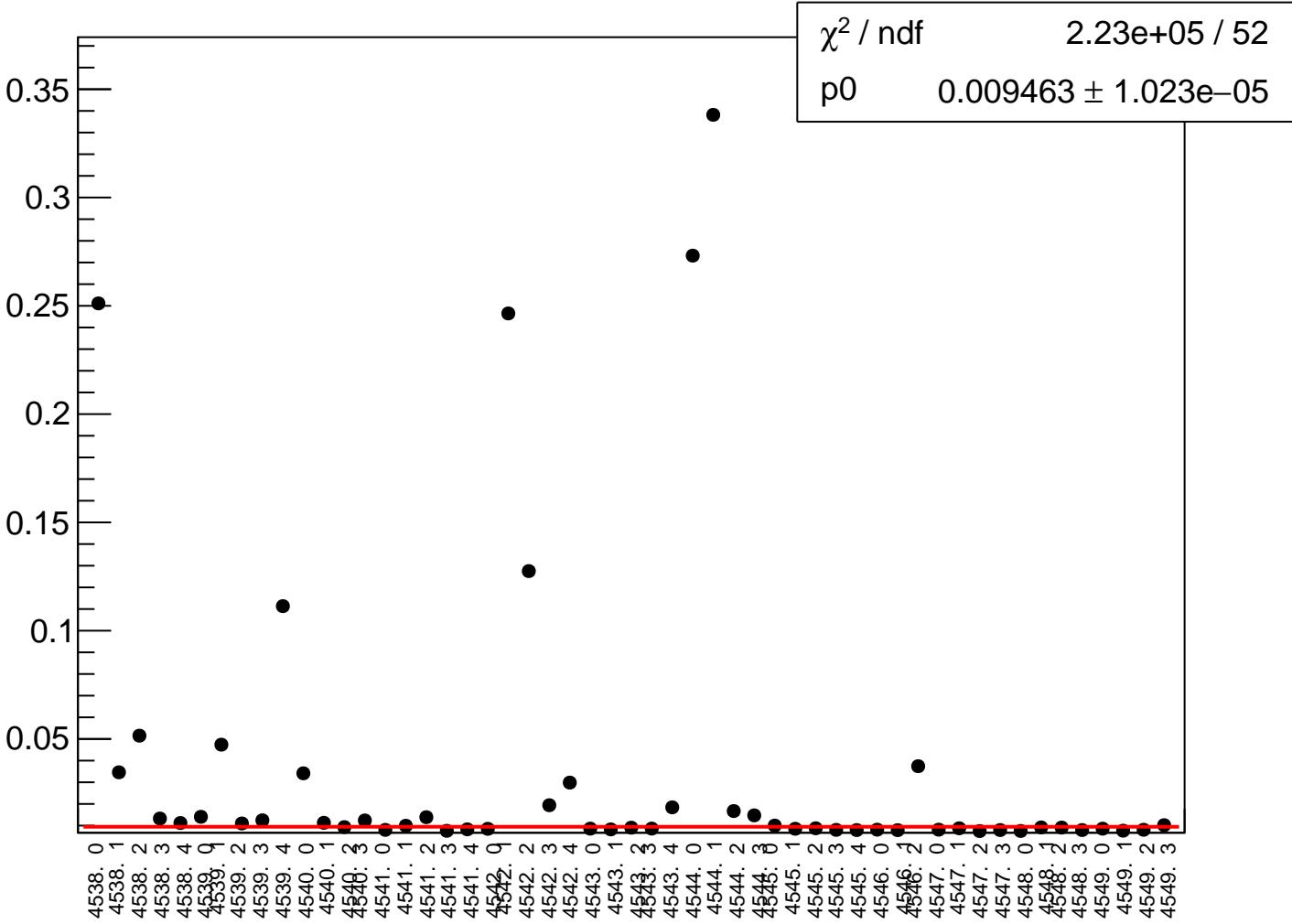
# yield\_bpm0l02Y\_rms vs run



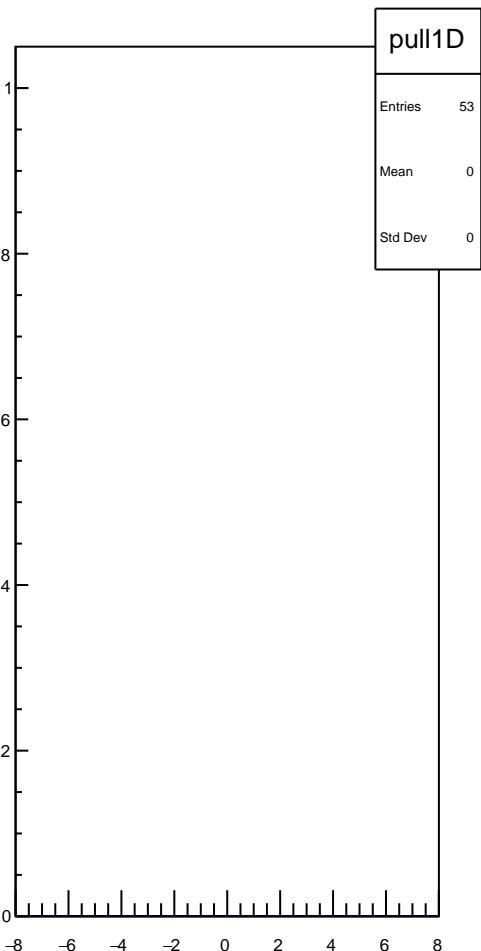
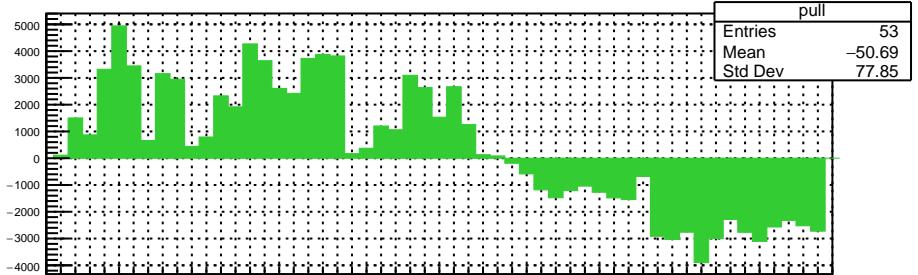
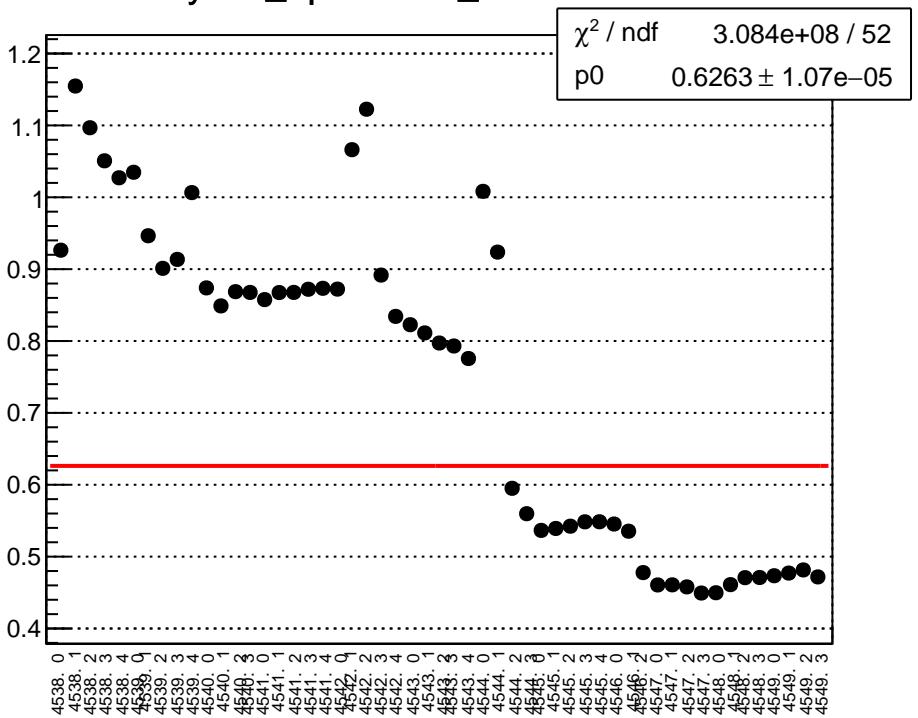
# yield\_bpm0l03X\_mean vs run



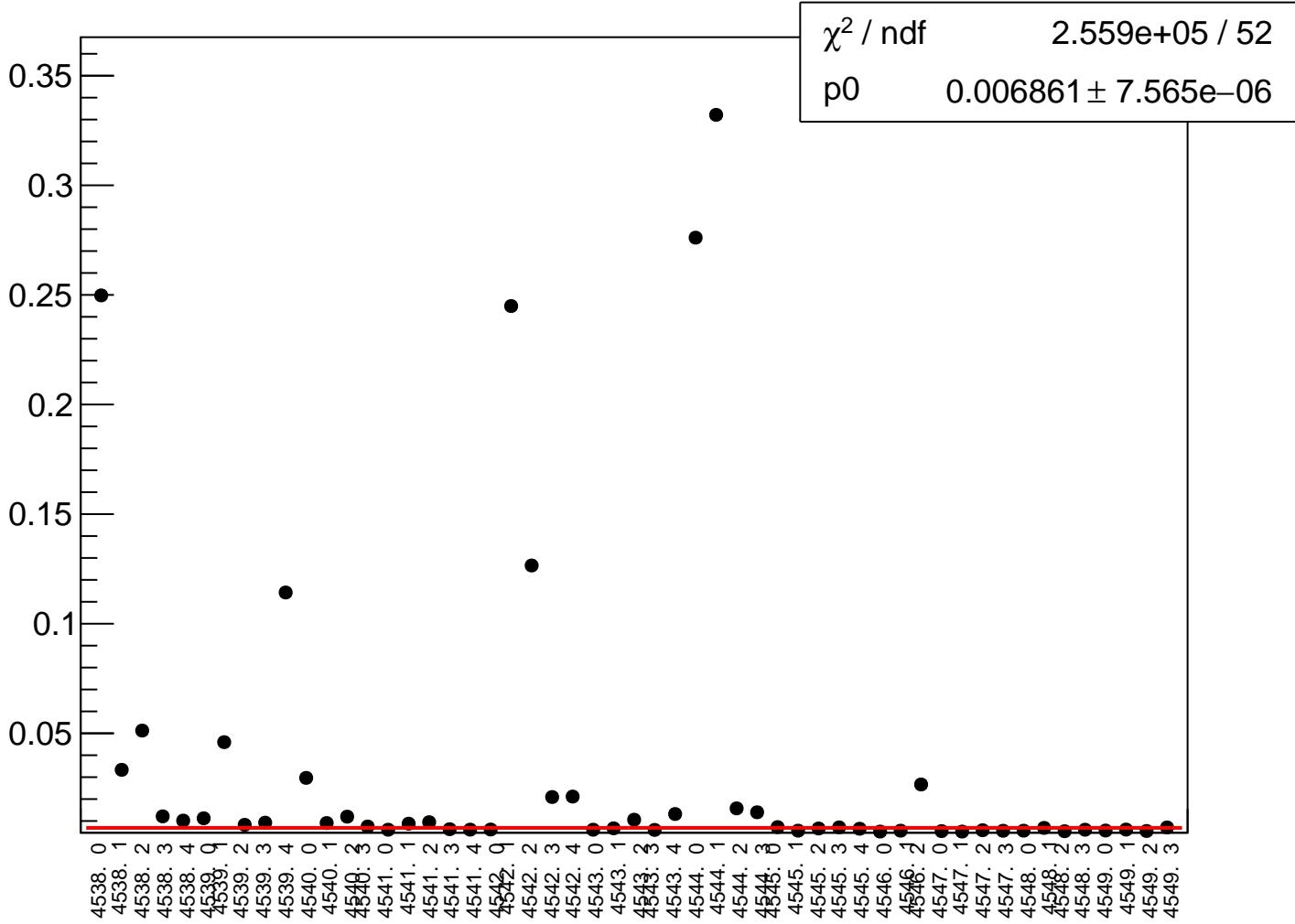
# yield\_bpm0l03X\_rms vs run



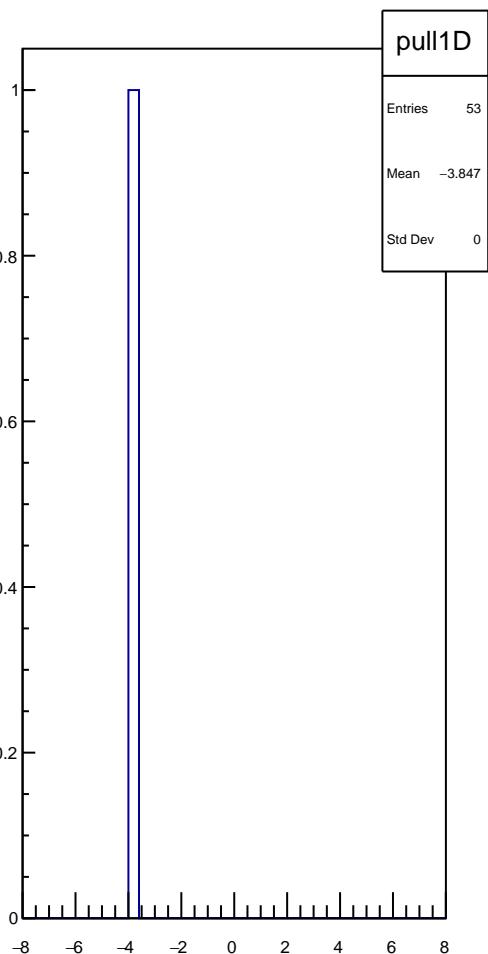
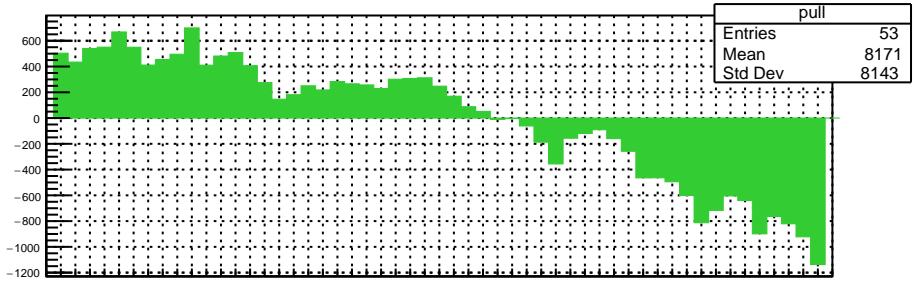
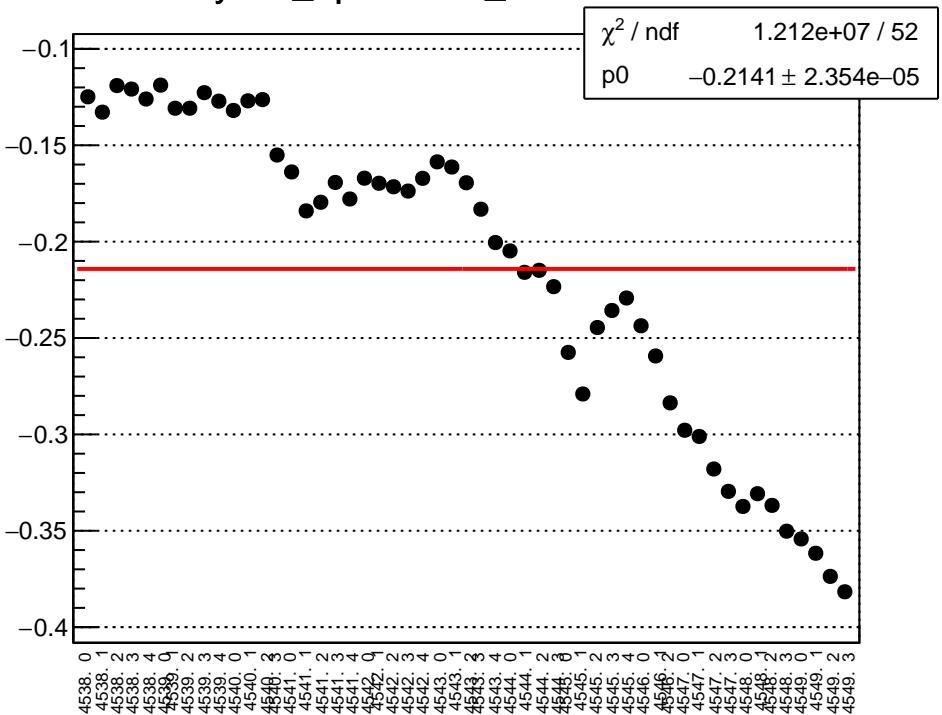
# yield\_bpm0I03Y\_mean vs run



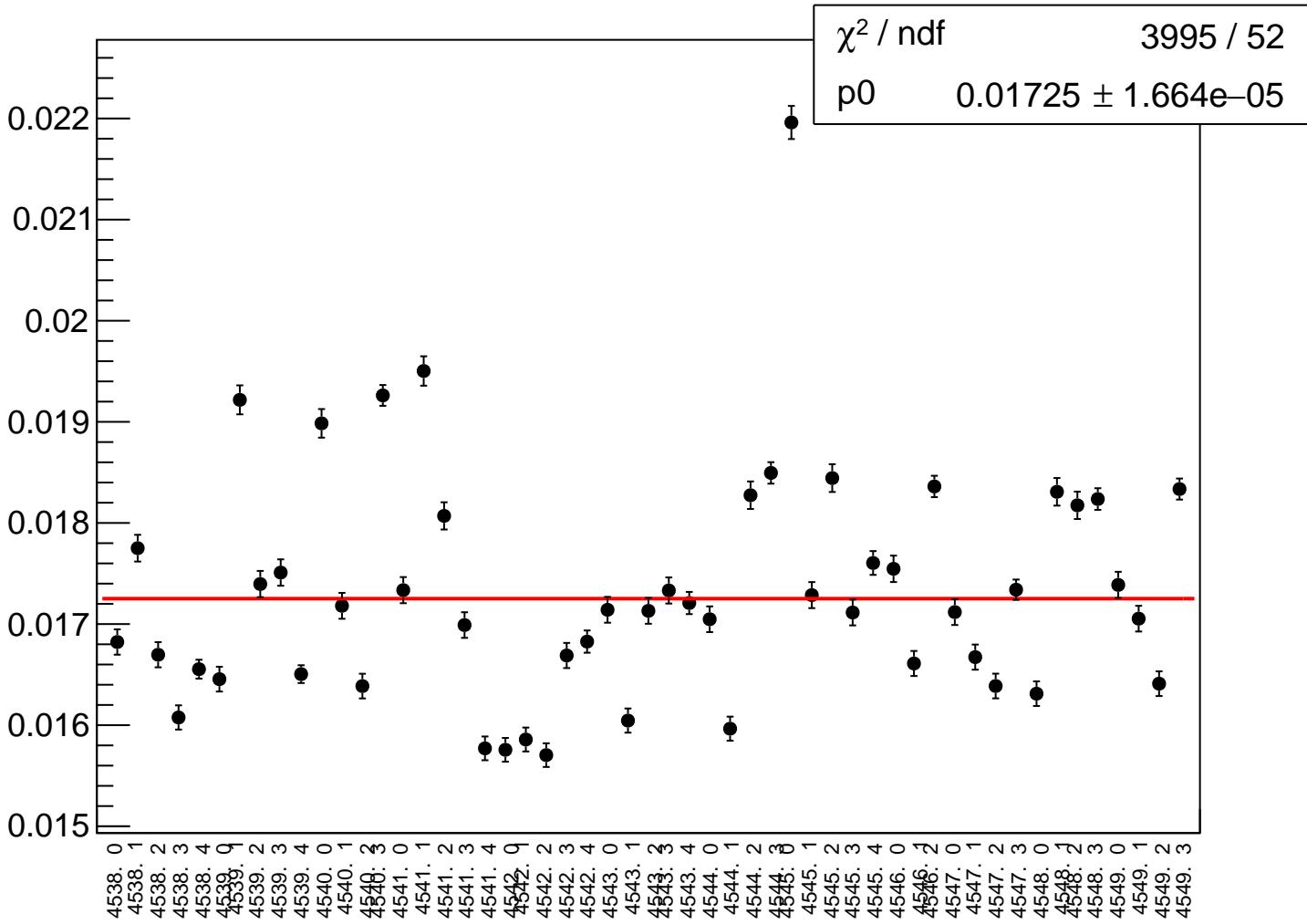
# yield\_bpm0l03Y\_rms vs run



# yield\_bpm0l04X\_mean vs run

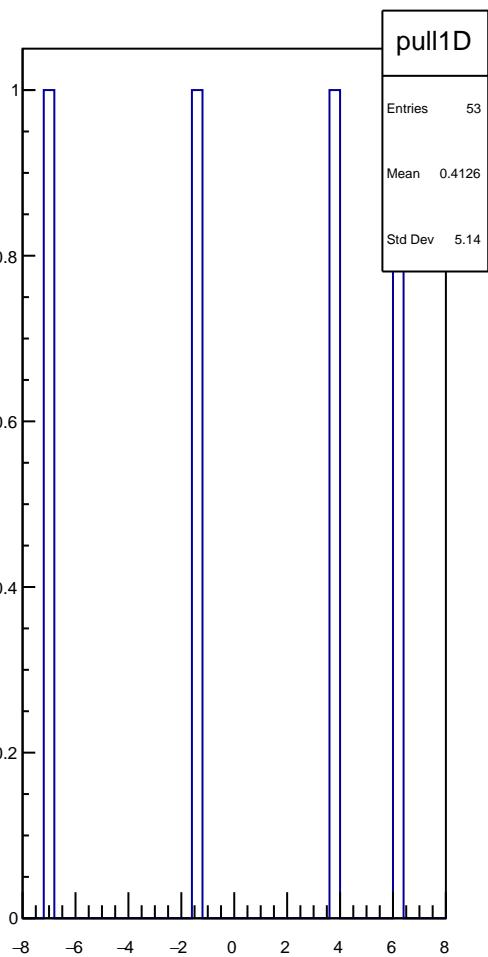
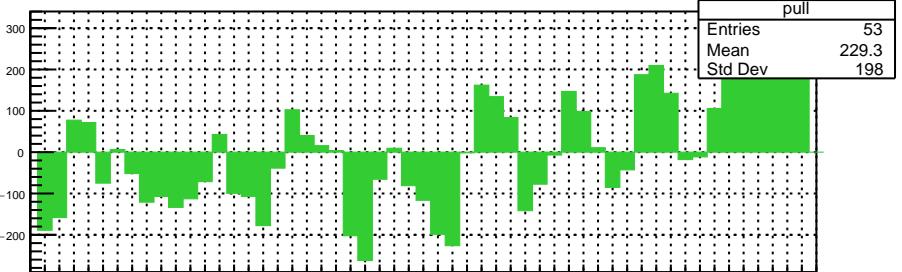
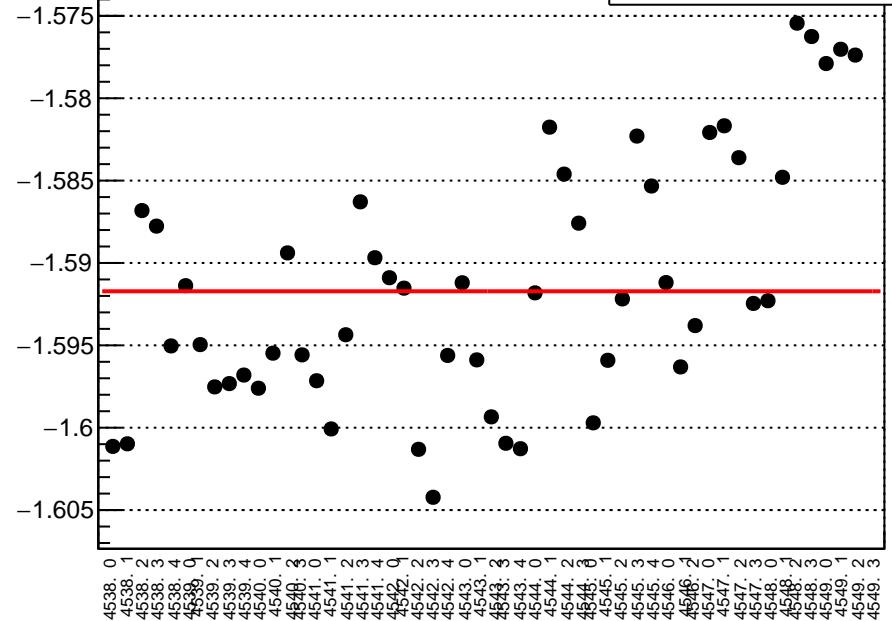


# yield\_bpm0l04X\_rms vs run

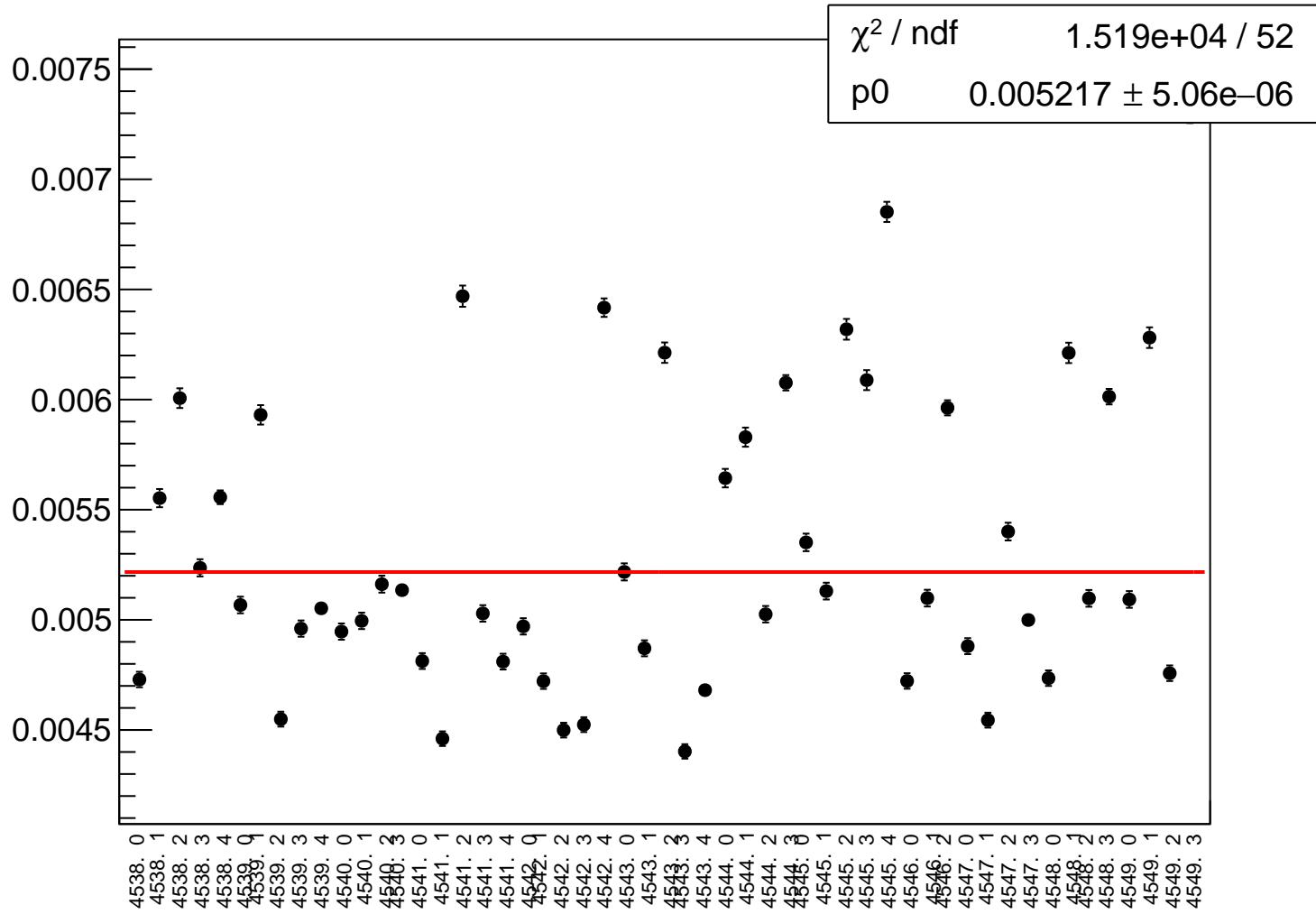


# yield\_bpm0I04Y\_mean vs run

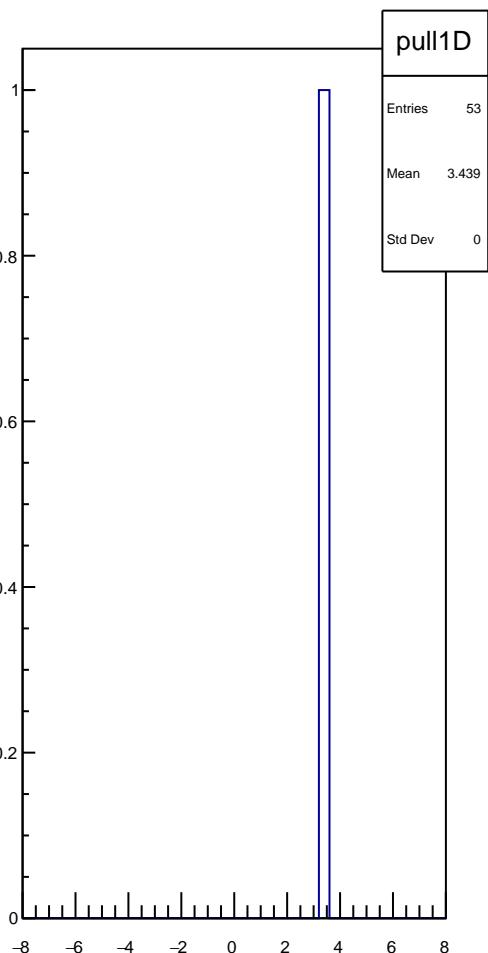
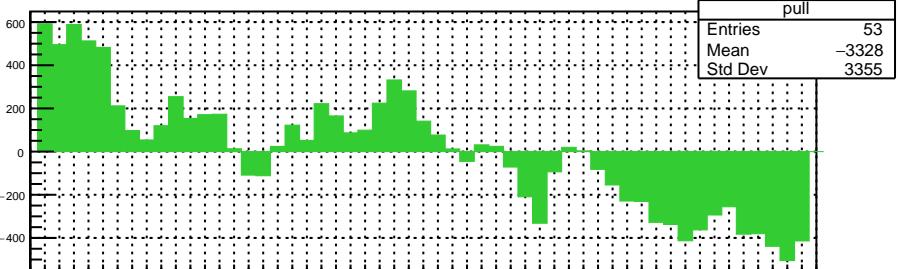
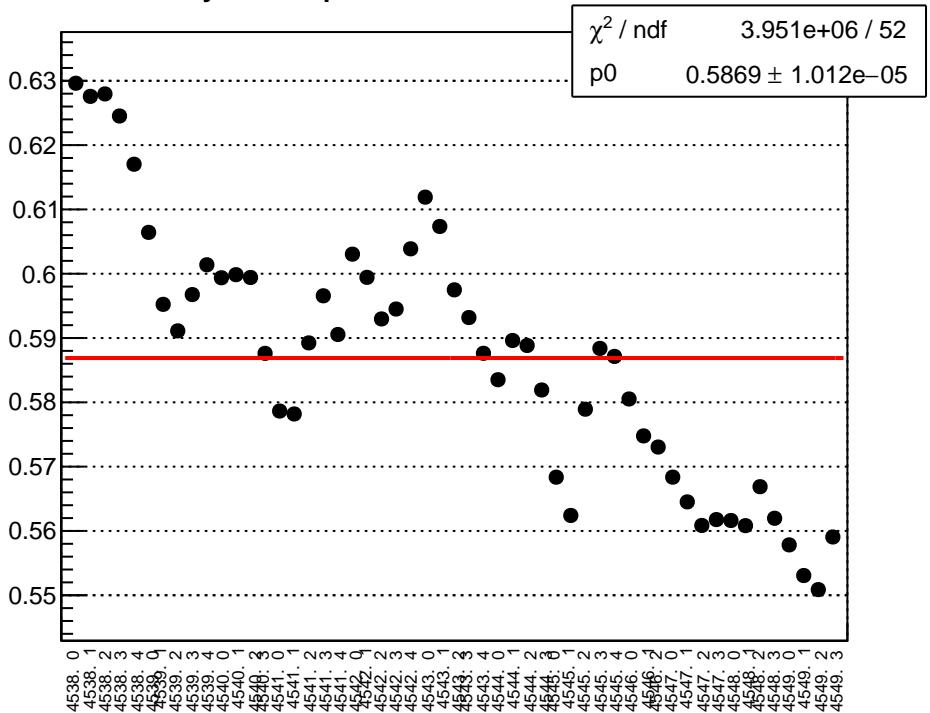
$\chi^2 / \text{ndf}$        $1.146e+06 / 52$   
 $p0$        $-1.592 \pm 7.155e-06$



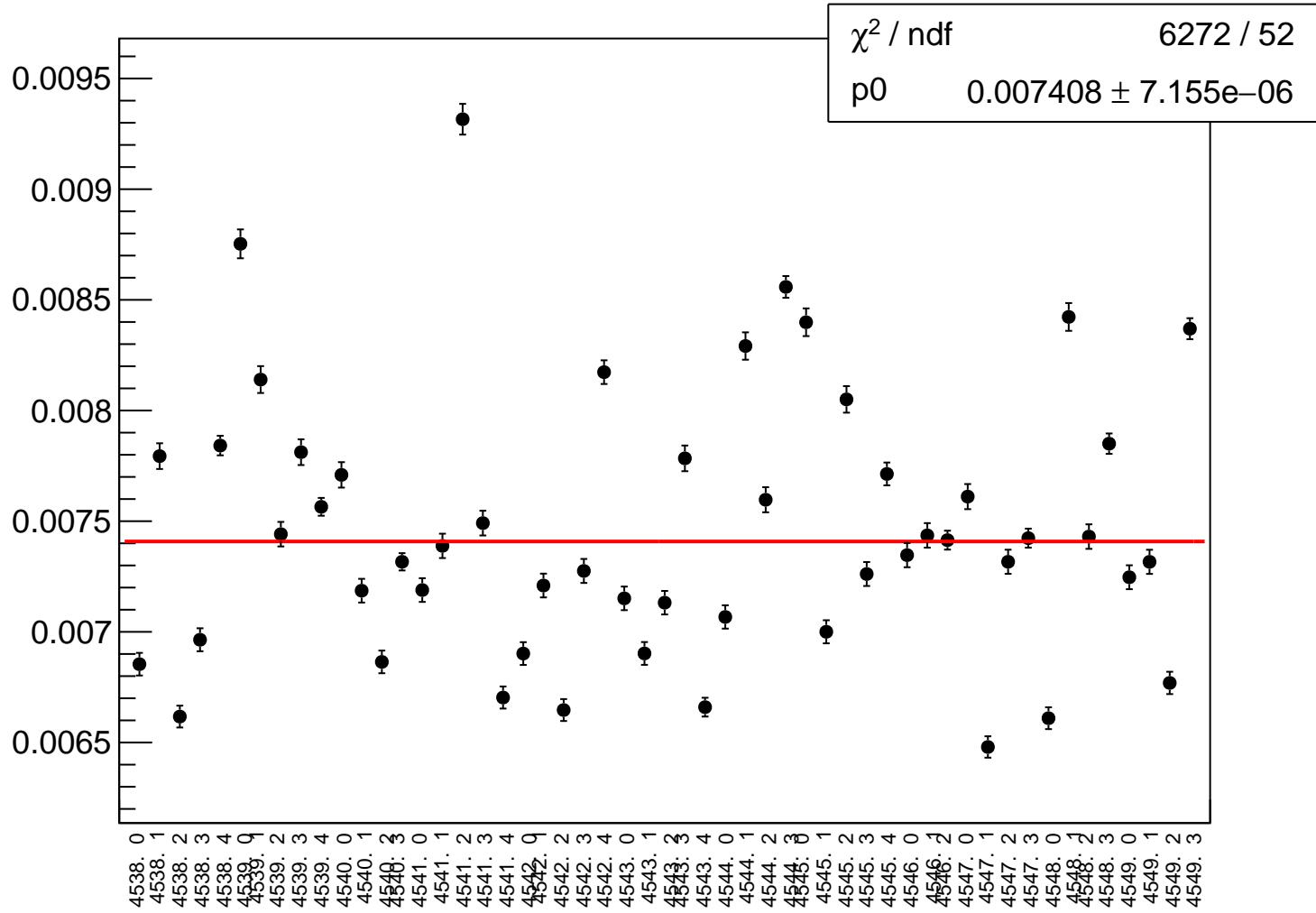
# yield\_bpm0l04Y\_rms vs run



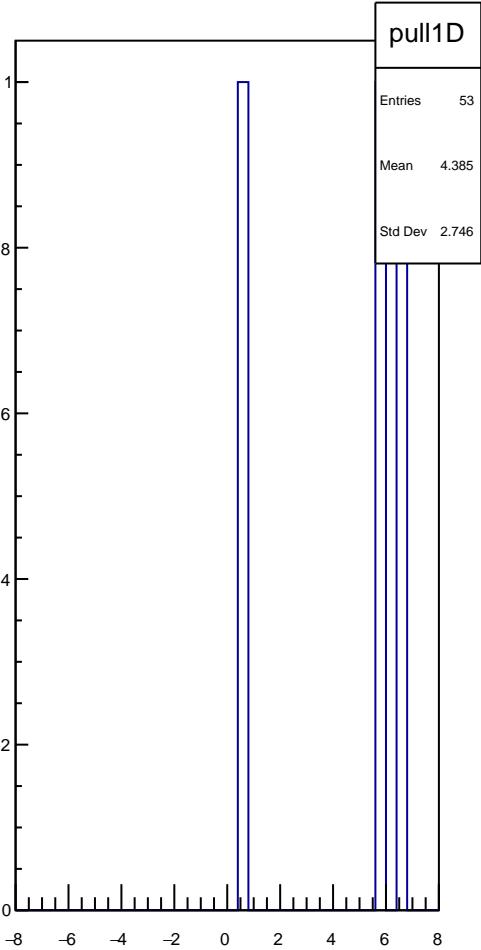
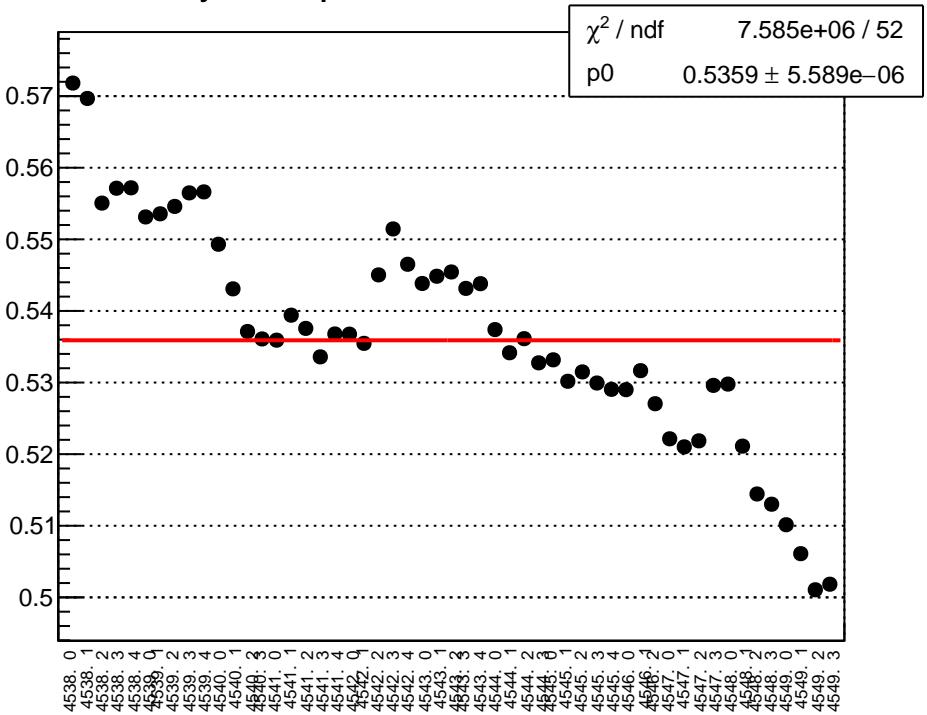
# yield\_bpm0l05X\_mean vs run



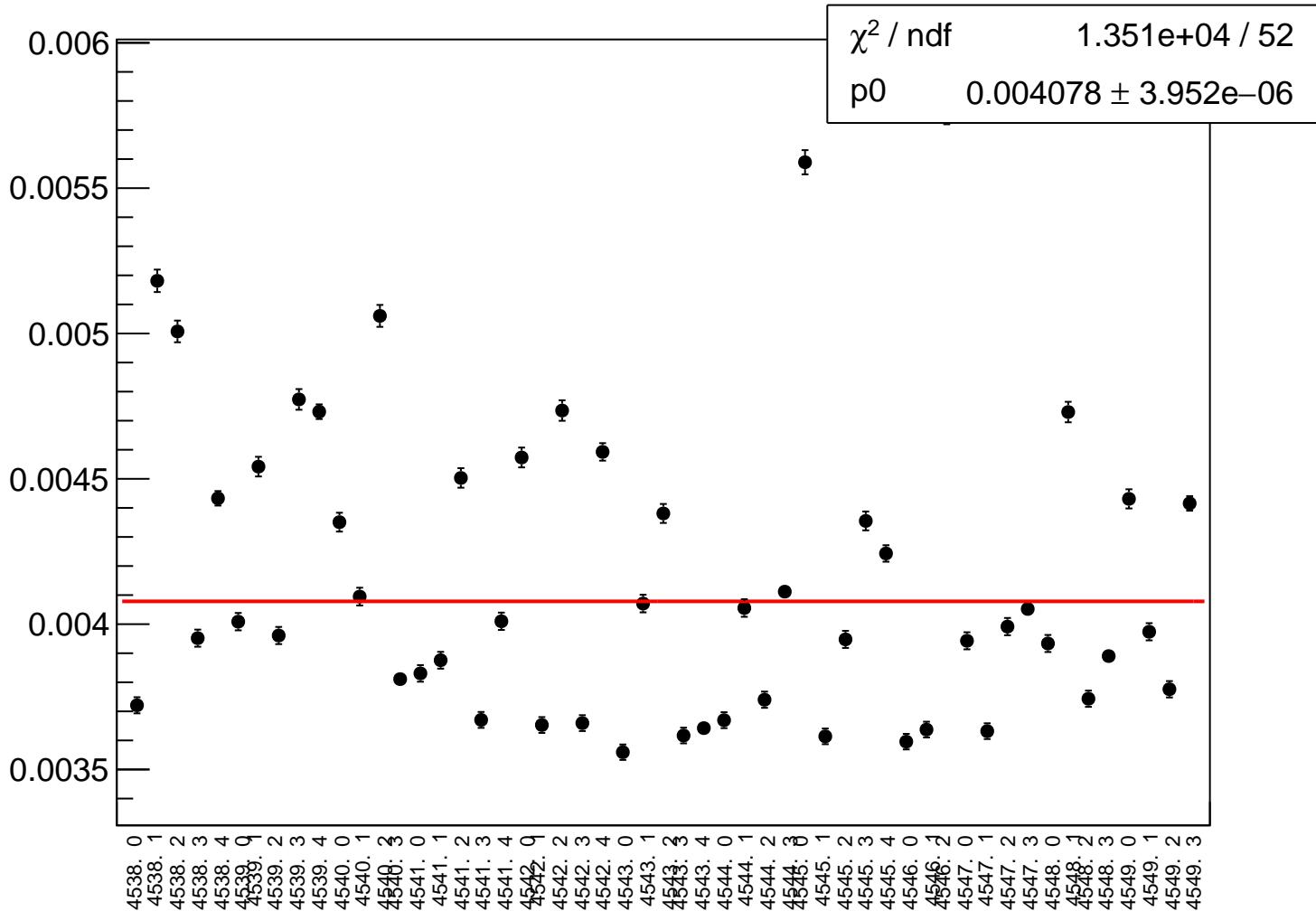
# yield\_bpm0l05X\_rms vs run

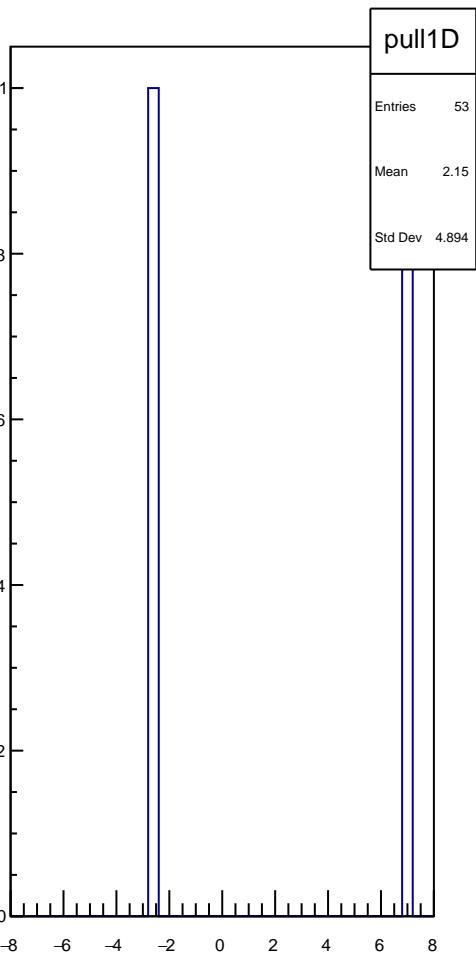
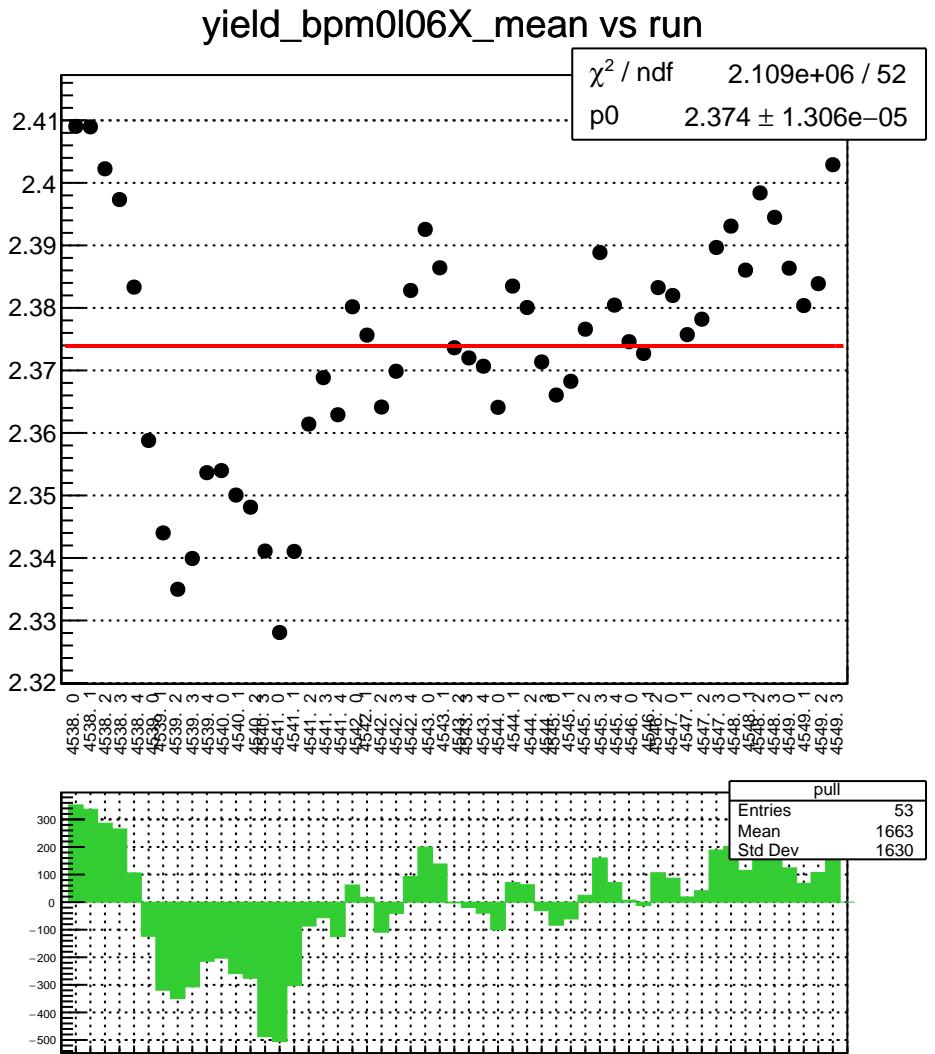


# yield\_bpm0I05Y\_mean vs run

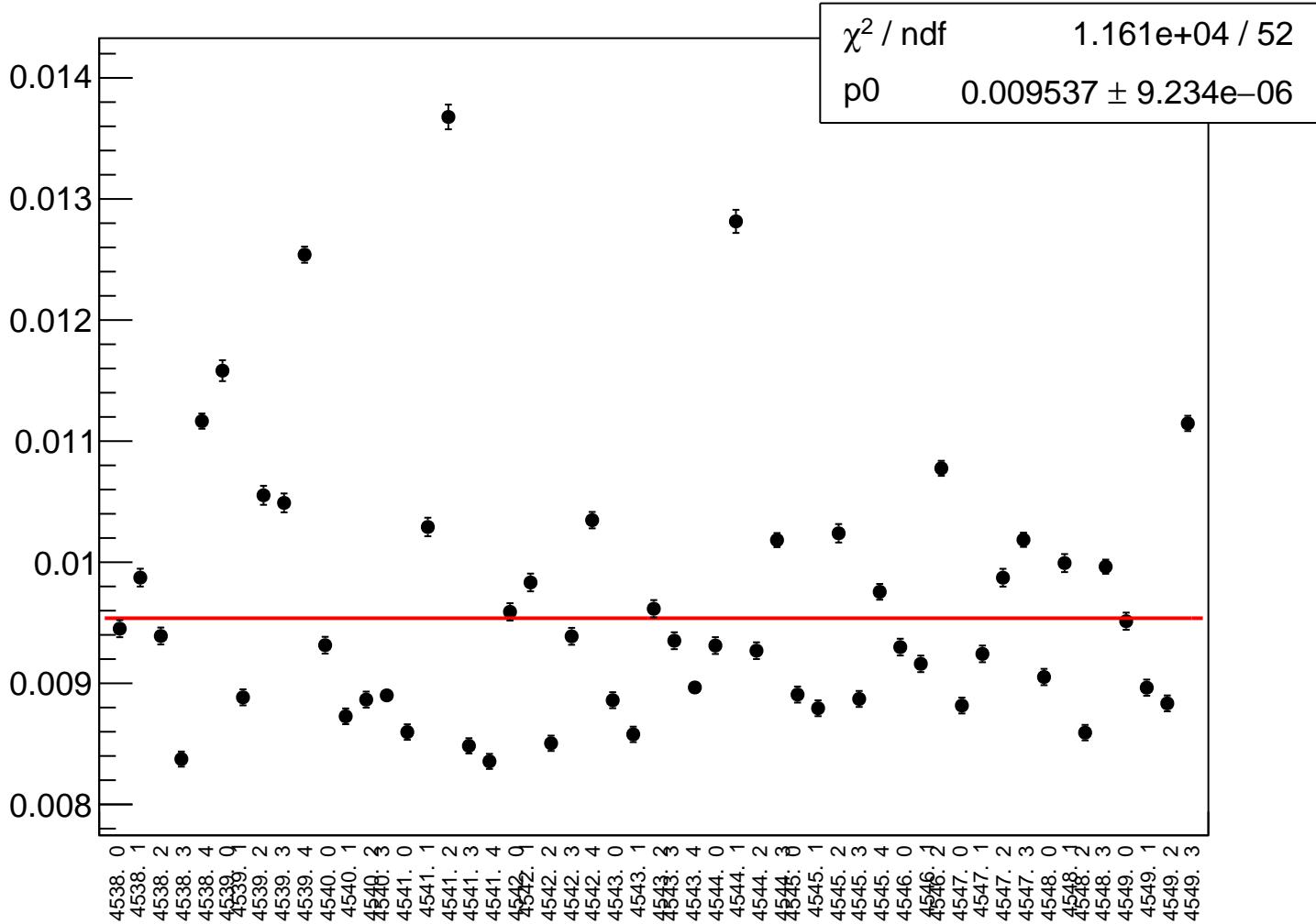


# yield\_bpm0l05Y\_rms vs run

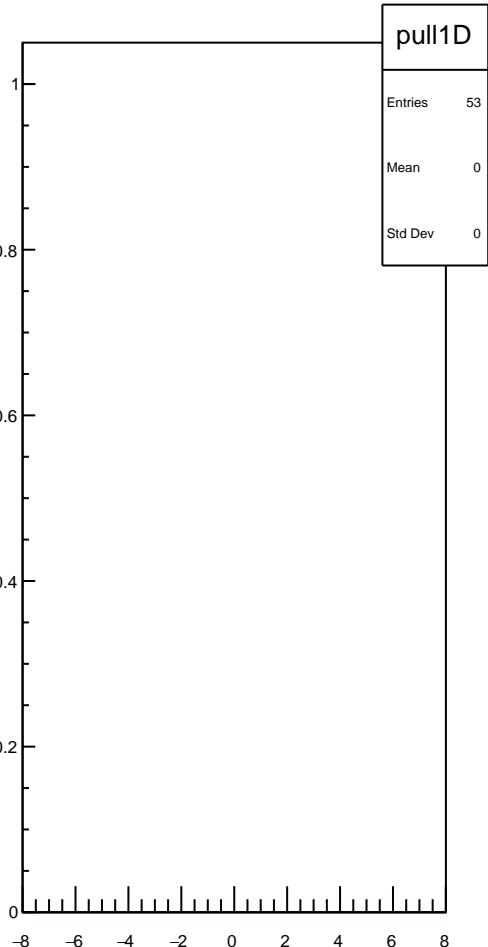
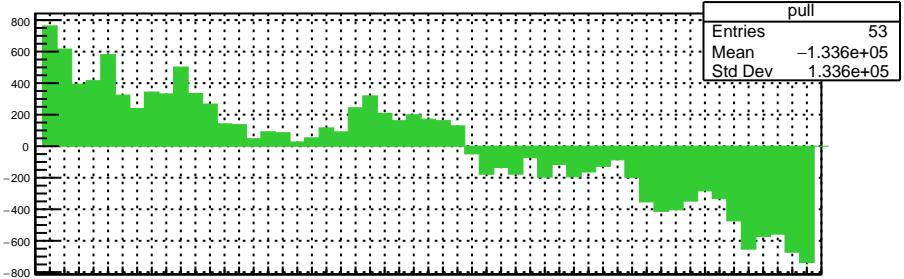
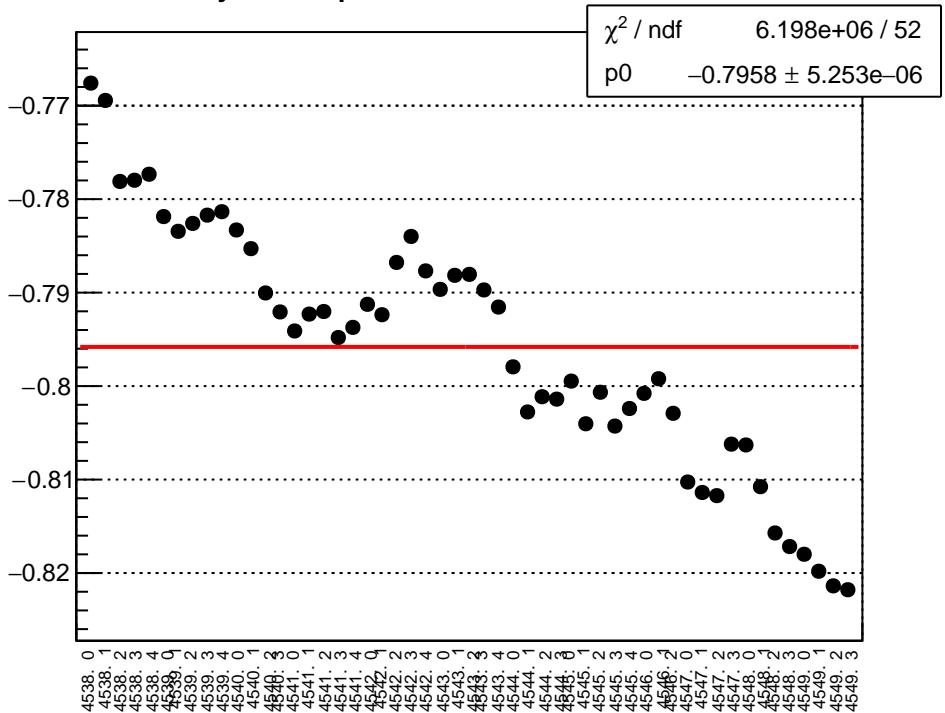




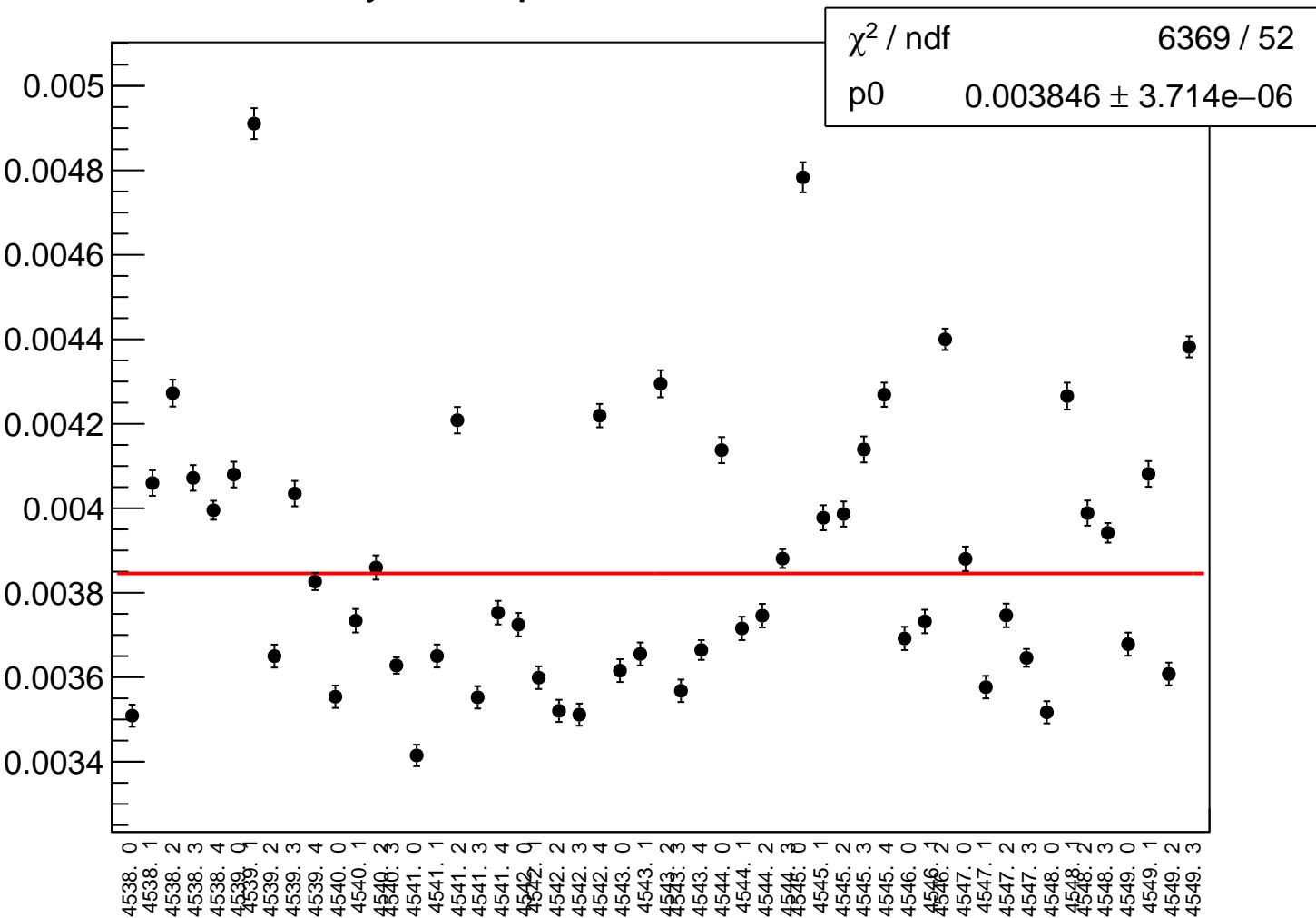
# yield\_bpm0l06X\_rms vs run



# yield\_bpm0I06Y\_mean vs run

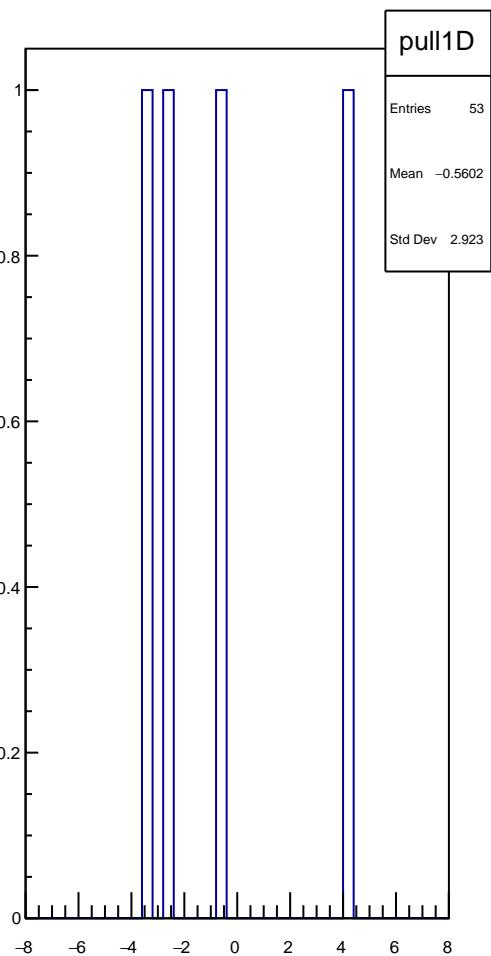
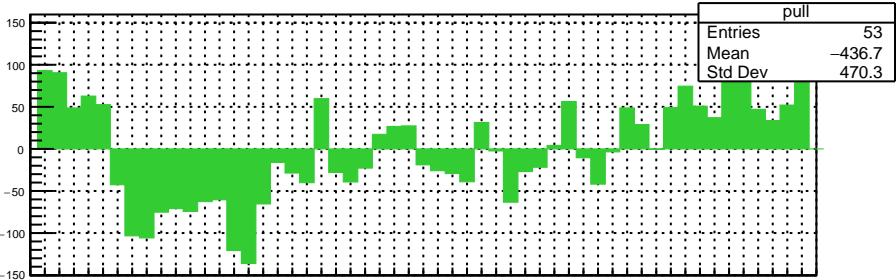
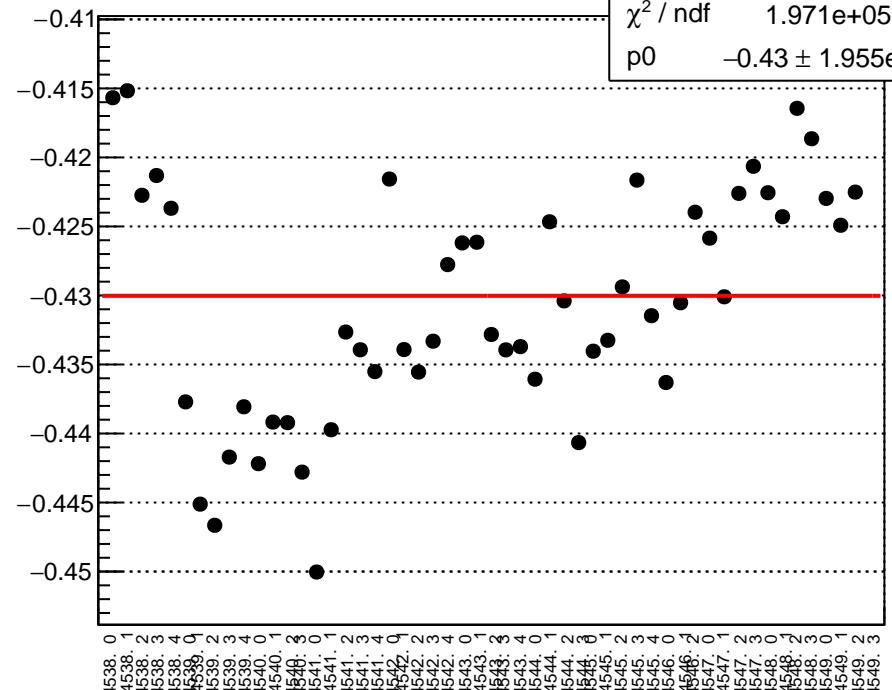


# yield\_bpm0l06Y\_rms vs run

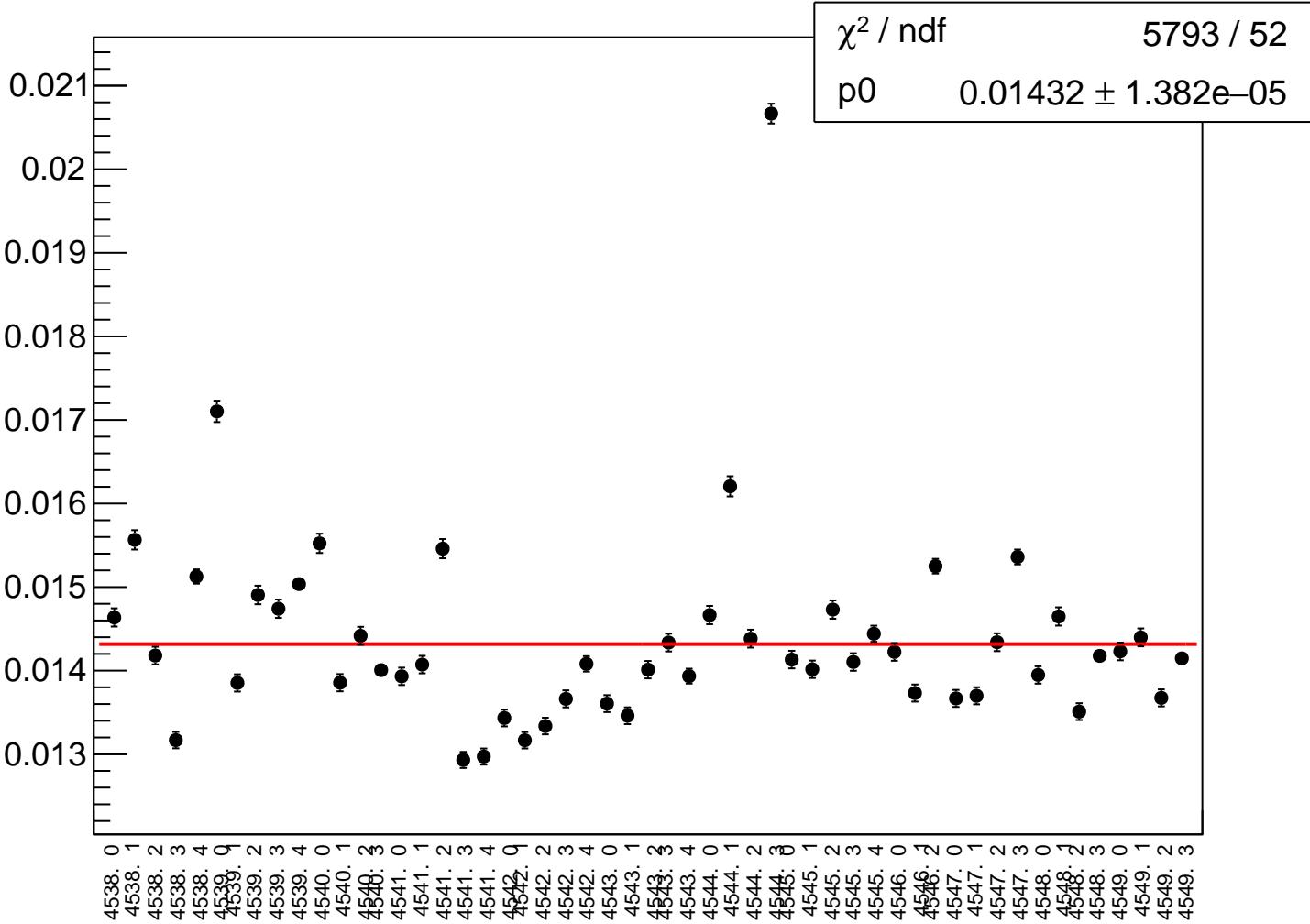


# yield\_bpm0I07X\_mean vs run

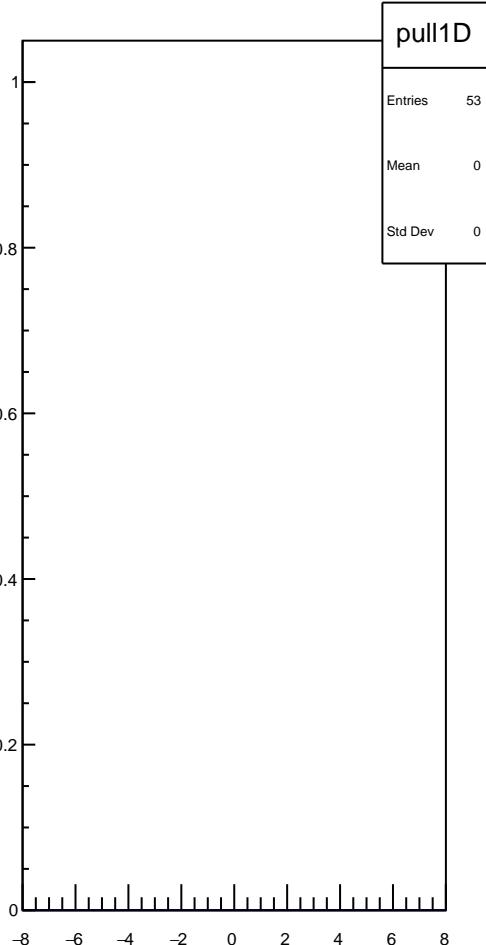
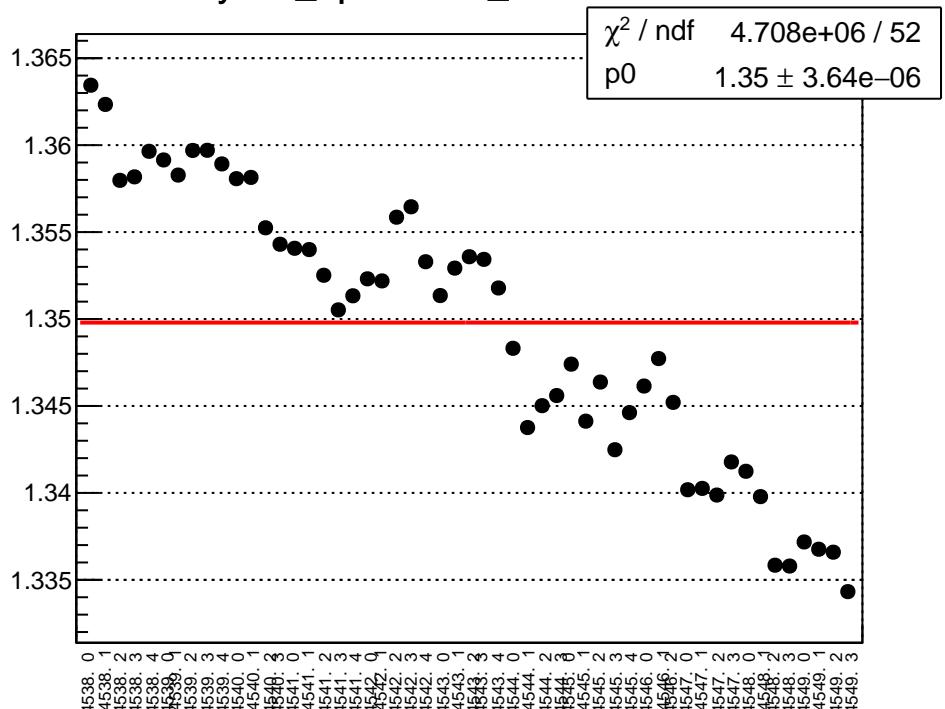
$\chi^2 / \text{ndf}$  1.971e+05 / 52  
 $p_0$   $-0.43 \pm 1.955\text{e}{-05}$



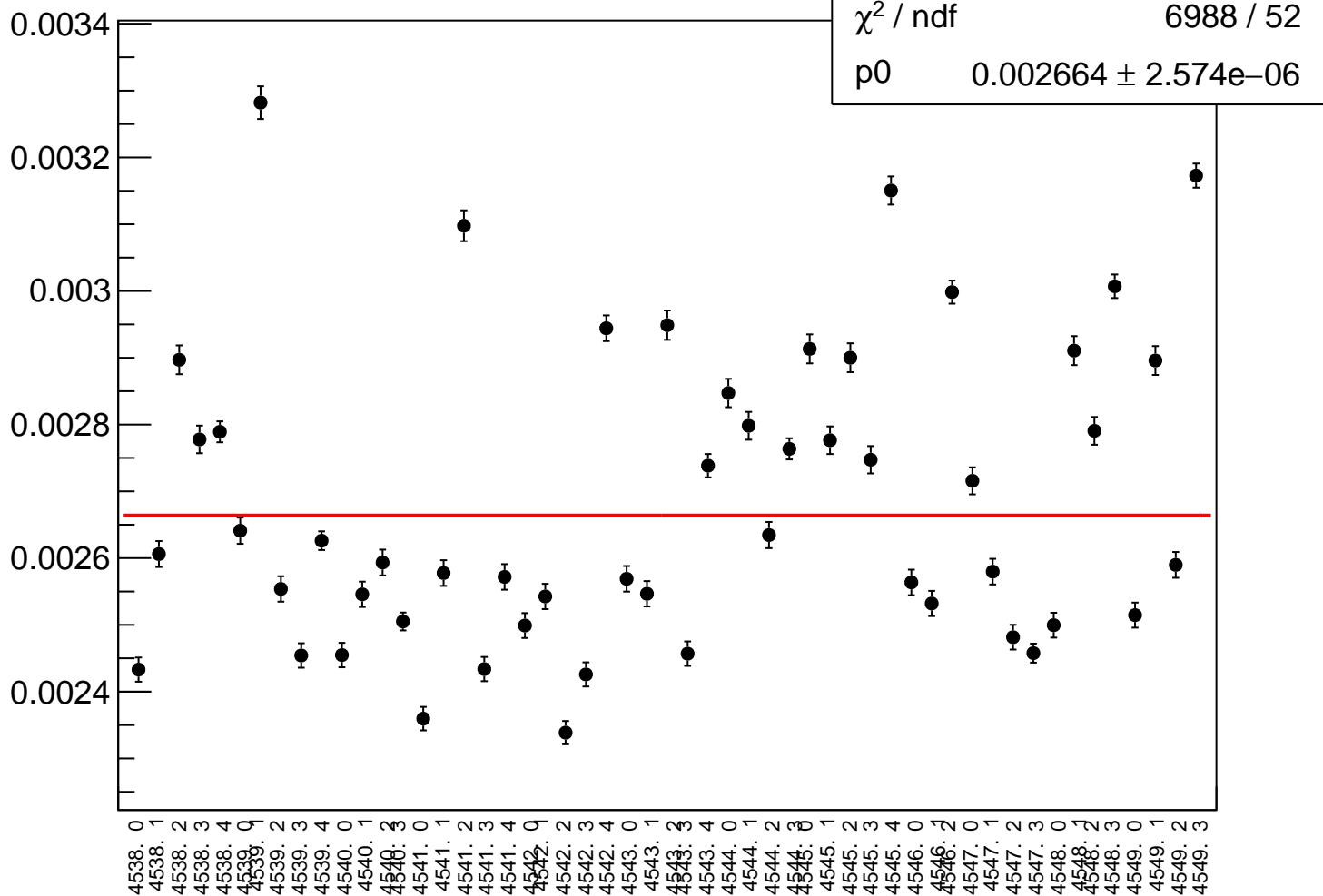
# yield\_bpm0l07X\_rms vs run



# yield\_bpm0I07Y\_mean vs run



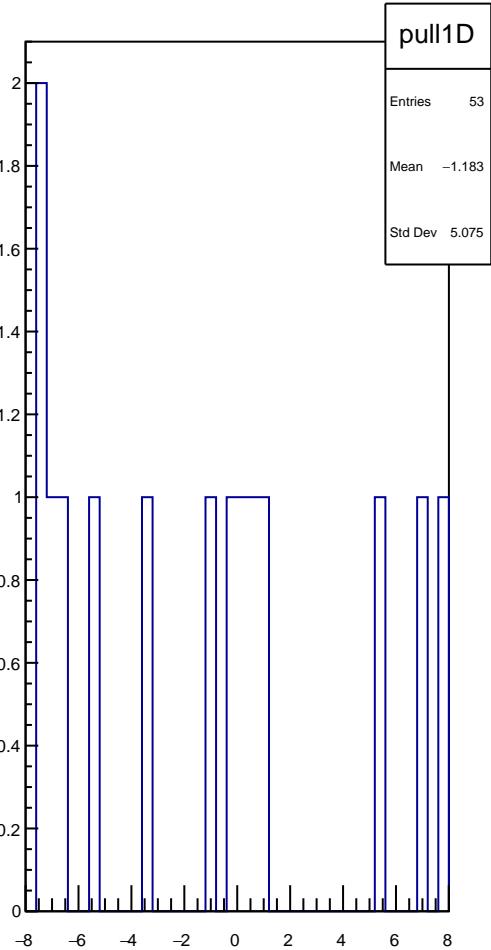
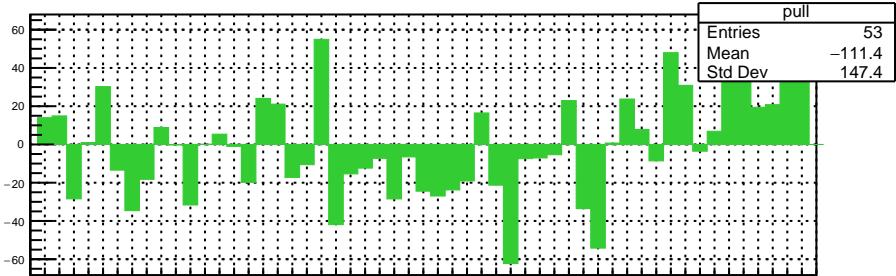
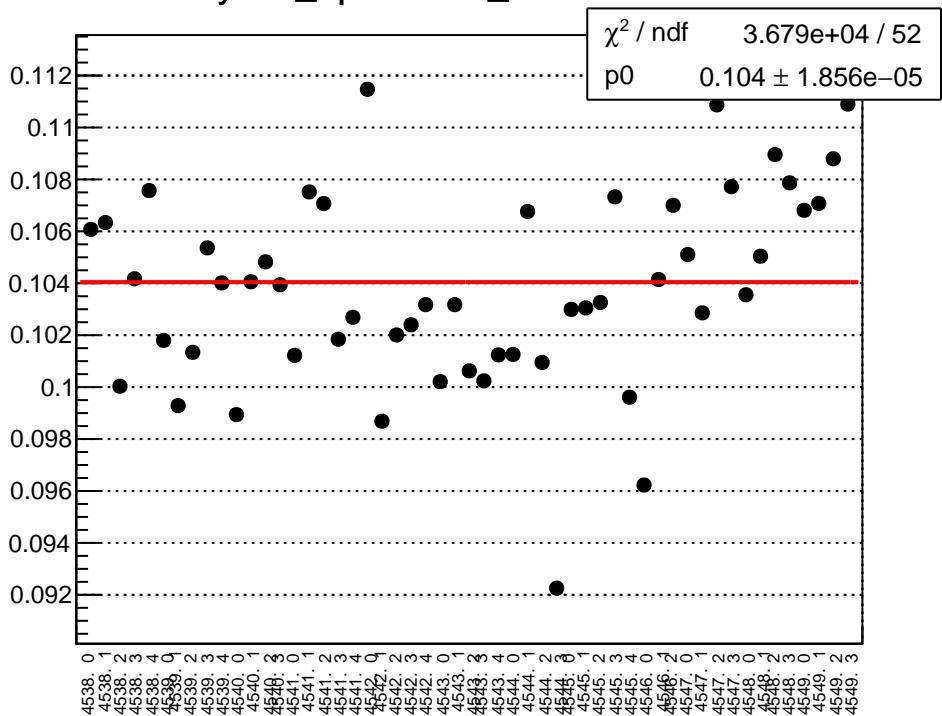
# yield\_bpm0l07Y\_rms vs run



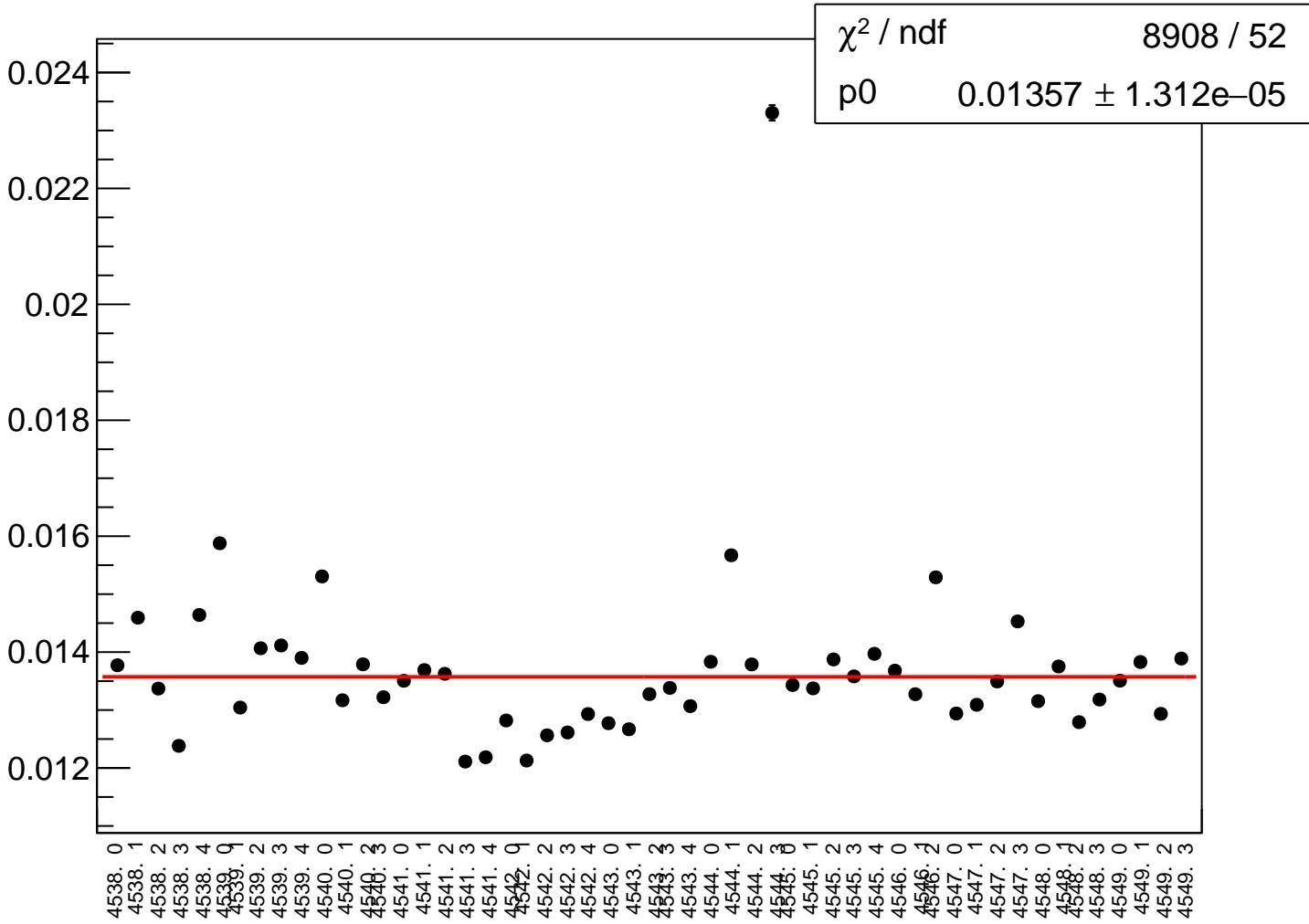
Run numbers (x-axis):  
4538.1, 4538.2, 4538.3, 4538.4, 4539.9, 4539.2, 4539.3, 4539.4, 4539.0, 4540.1, 4540.0, 4541.1, 4541.0, 4541.3, 4541.4, 4542.9, 4542.4, 4542.3, 4542.2, 4543.0, 4543.1, 4543.3, 4543.4, 4543.0, 4543.1, 4543.2, 4543.3, 4543.4, 4544.0, 4544.1, 4544.2, 4544.3, 4544.0, 4544.1, 4544.2, 4544.3, 4544.4, 4545.0, 4545.1, 4545.2, 4545.3, 4545.4, 4546.0, 4546.1, 4546.2, 4546.3, 4547.2, 4547.3, 4547.0, 4547.1, 4548.2, 4548.3, 4548.0, 4548.1, 4549.2, 4549.3, 4549.0, 4549.1, 4549.2, 4549.3.

This scatter plot displays the relationship between the yield measurement  $\text{yield}_{\text{bpm}0\text{l}07\text{Y}}_{\text{rms}}$  (y-axis) and the run number (x-axis). The y-axis ranges from 0.0024 to 0.0034. The x-axis lists run numbers in pairs, such as 4538.1, 4538.2, etc. Data points are represented by black circles with vertical error bars, indicating measurement uncertainty. A solid red horizontal line represents a linear fit to the data, spanning the entire width of the plot. The plot title is "yield\_bpm0l07Y\_rms vs run". In the top right corner, there is a box containing statistical information:  $\chi^2 / \text{ndf} = 6988 / 52$  and  $p0 = 0.002664 \pm 2.574\text{e-}06$ .

# yield\_bpm0l08X\_mean vs run

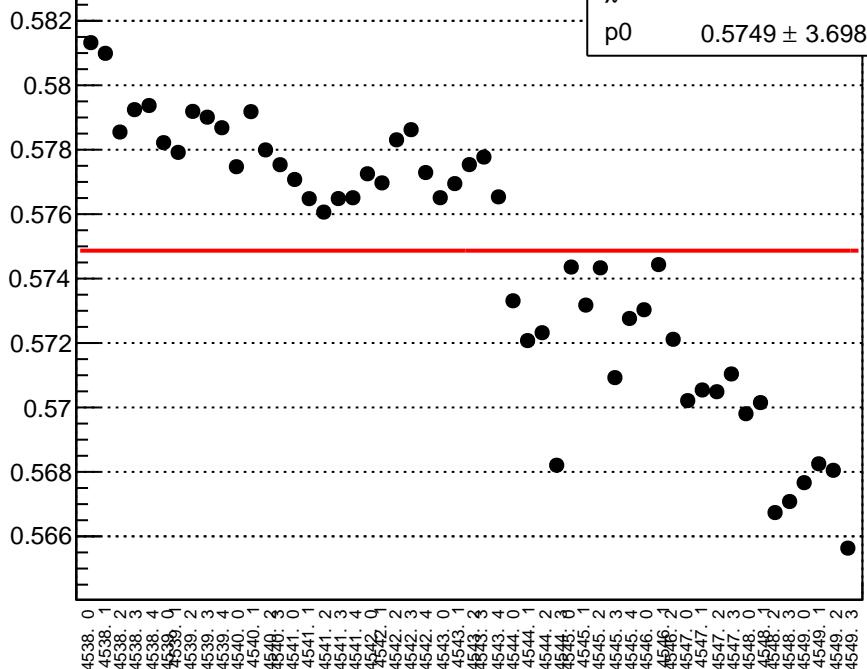


# yield\_bpm0l08X\_rms vs run

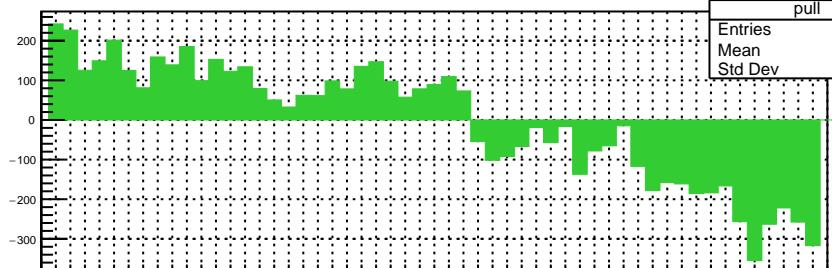




$\chi^2 / \text{ndf}$       1.203e+06 / 52  
 p0       $0.5749 \pm 3.698\text{e}{-}06$



pull	
Entries	53
Mean	902.4
Std Dev	874.3

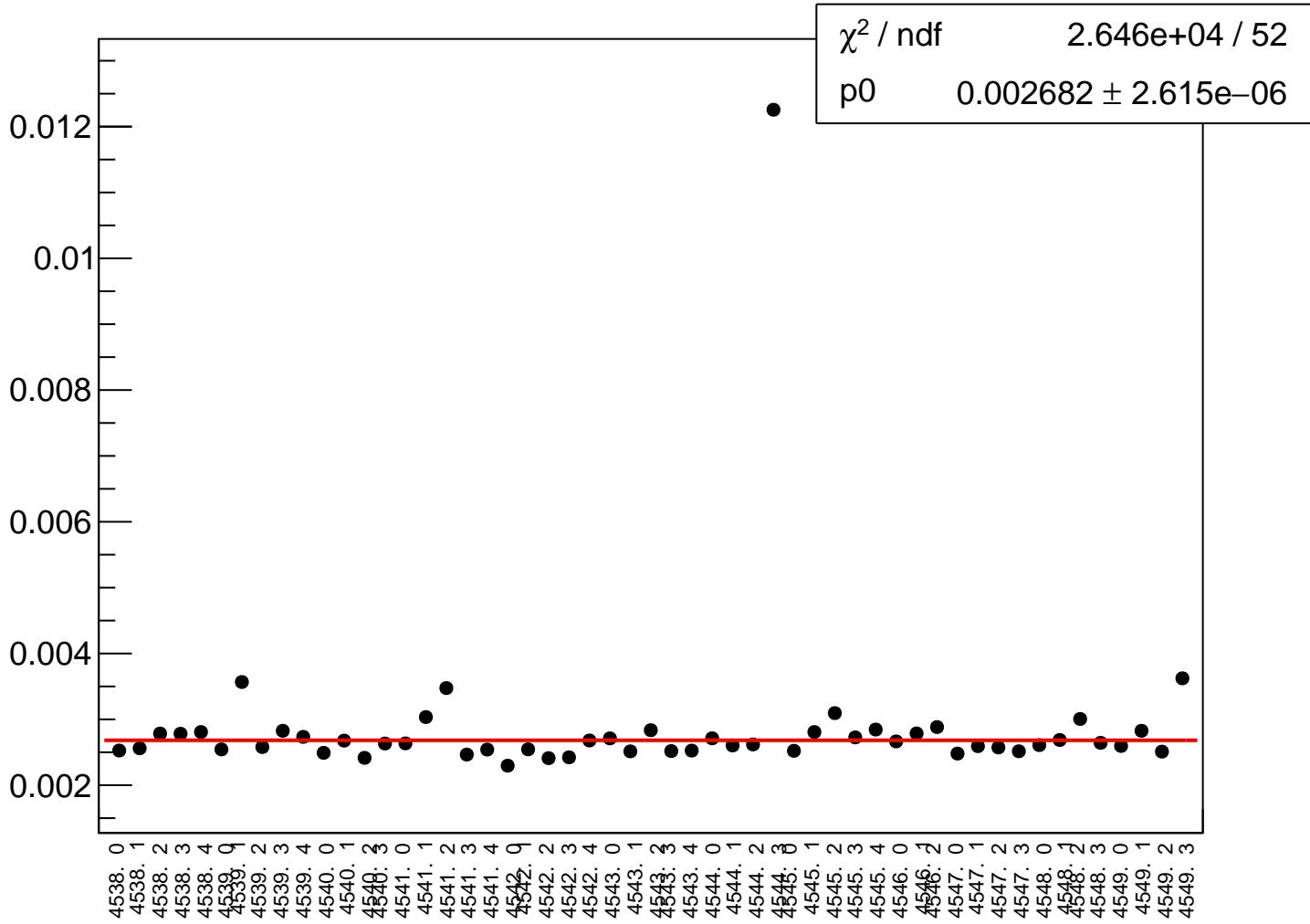


pull1D

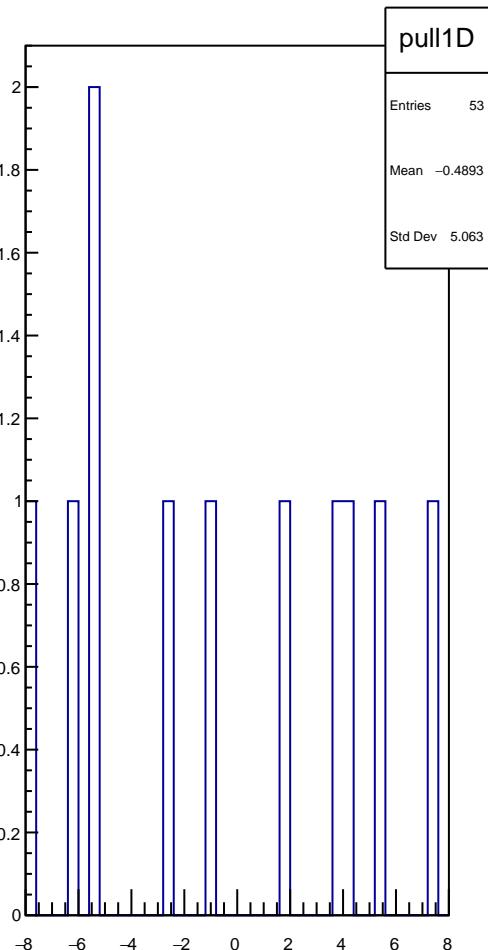
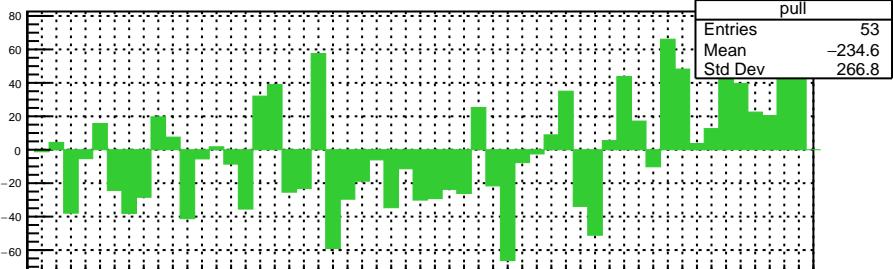
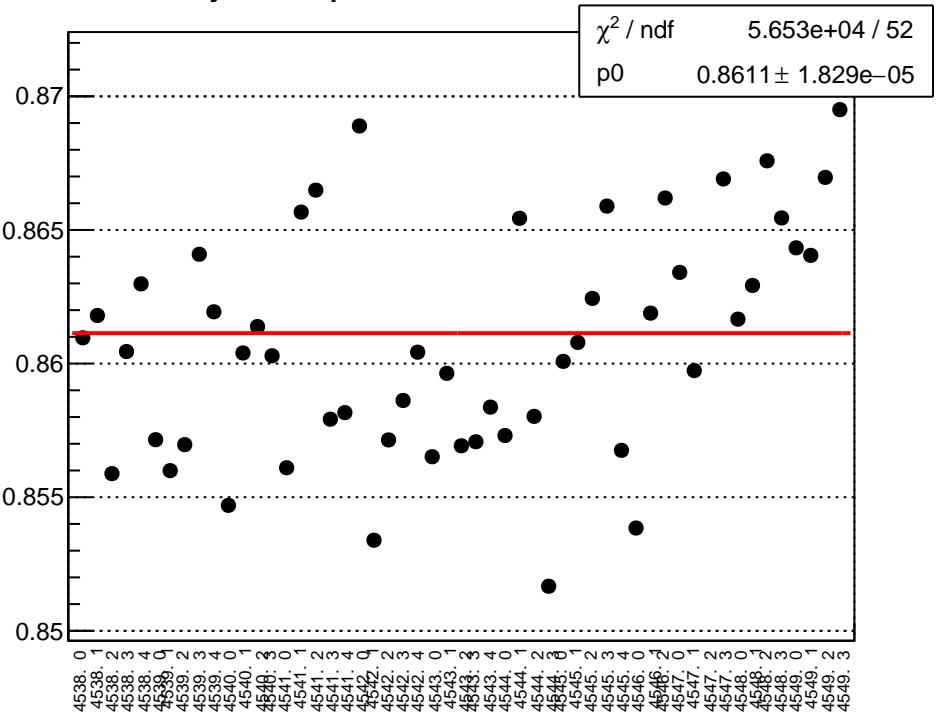
Entries	53
Mean	0
Std Dev	0

The figure shows a histogram of pull values. The x-axis is labeled from -8 to 8, and the y-axis is labeled from 0 to 1. The distribution is centered at 0, with the highest frequency occurring near -2 and 2, both around 0.05. The distribution is roughly symmetric and centered at zero.

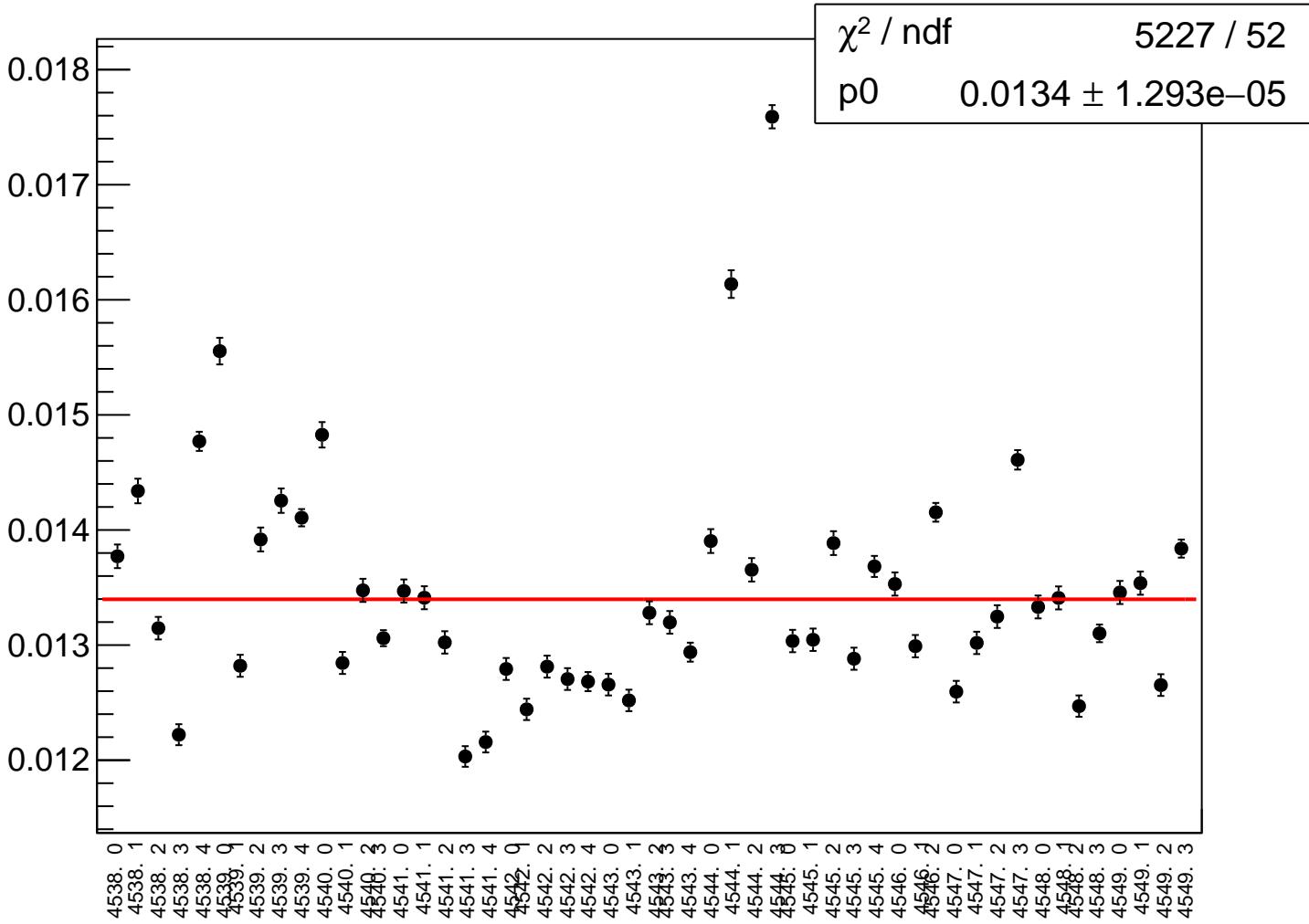
# yield\_bpm0l08Y\_rms vs run



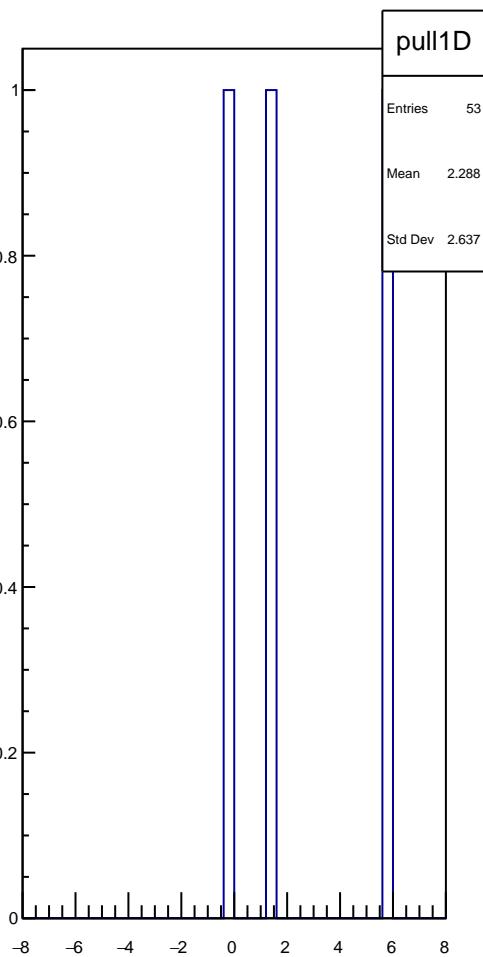
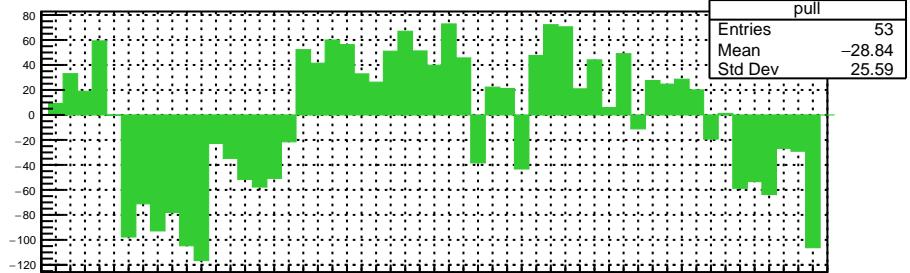
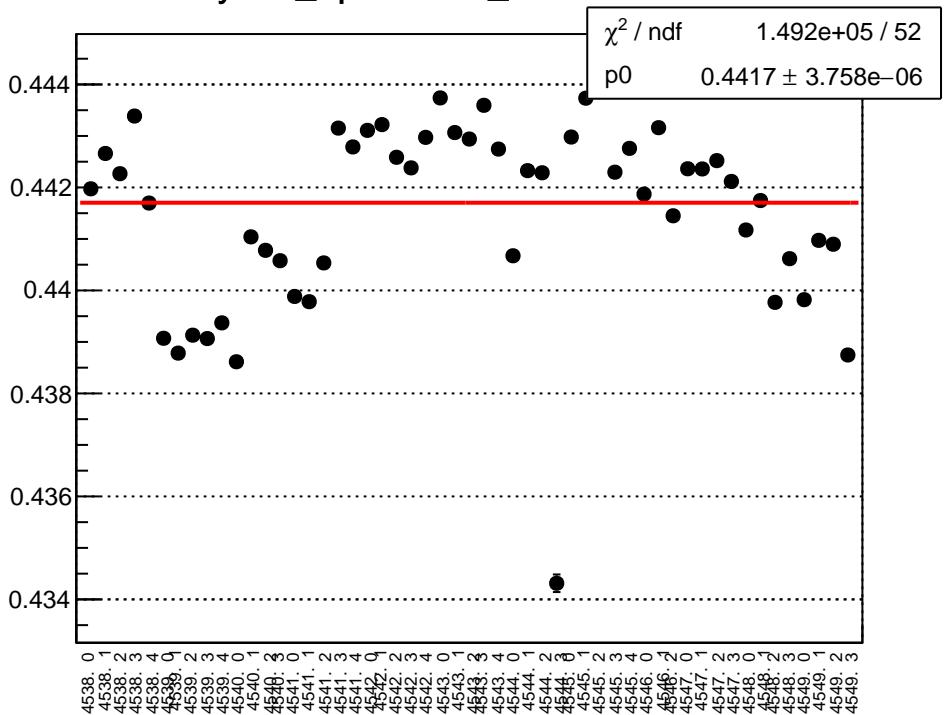
# yield\_bpm0l09X\_mean vs run



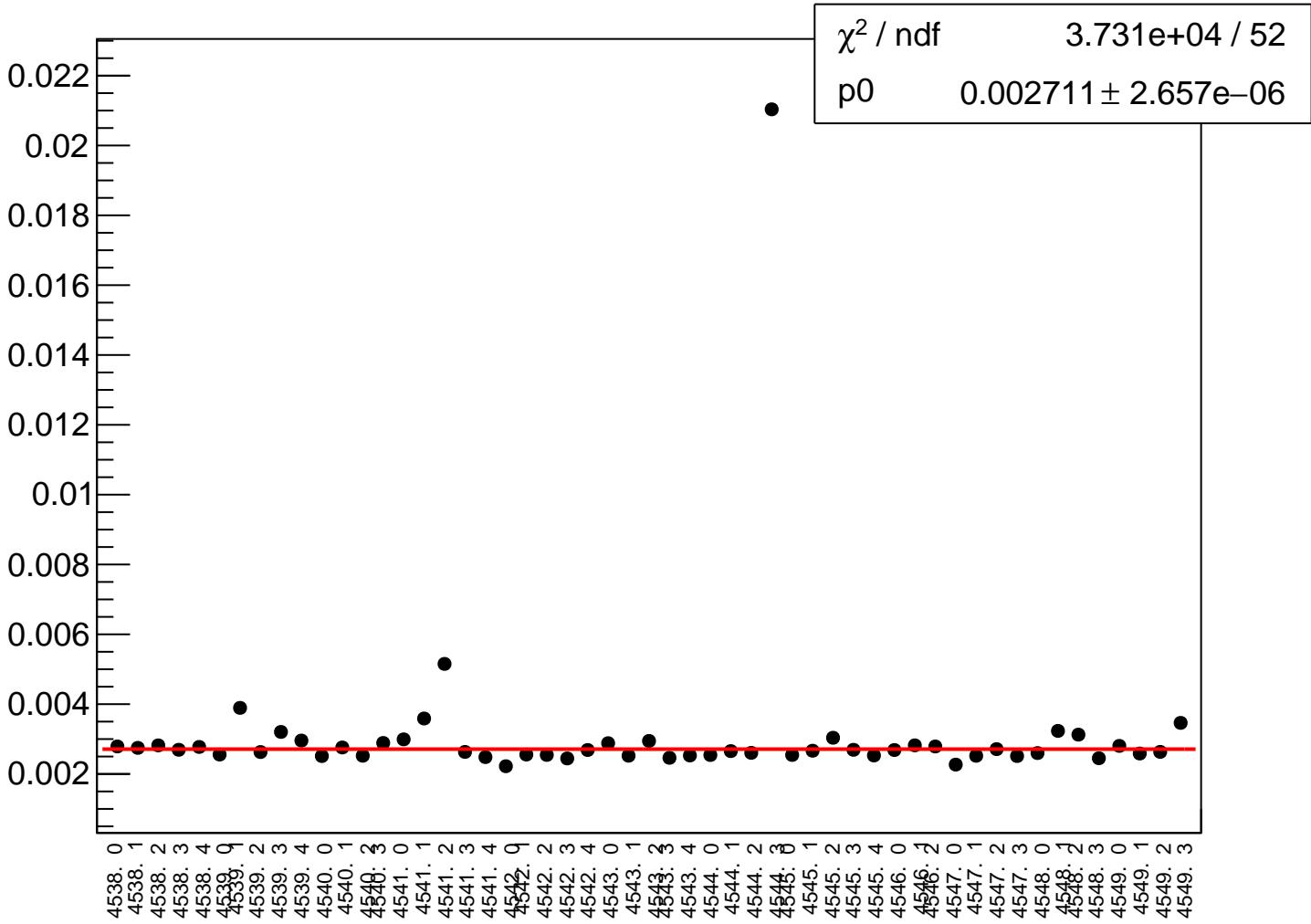
# yield\_bpm0l09X\_rms vs run



# yield\_bpm0I09Y\_mean vs run

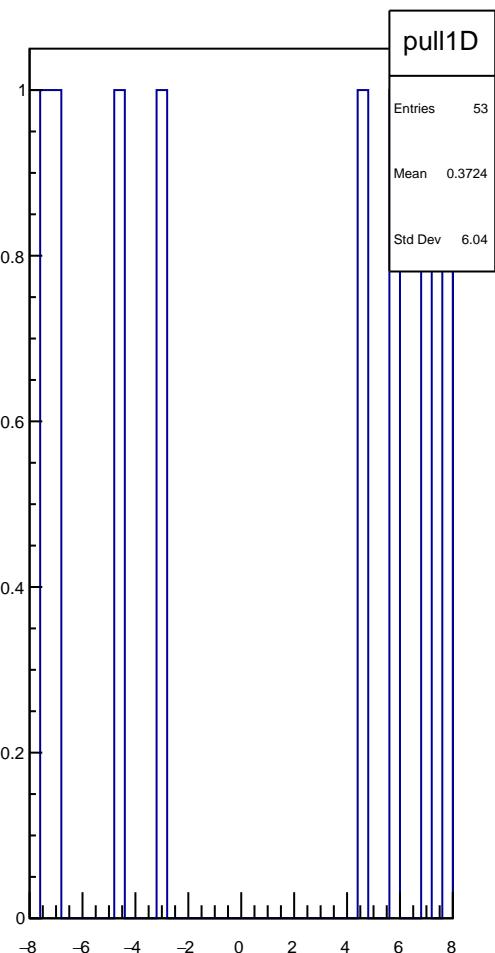
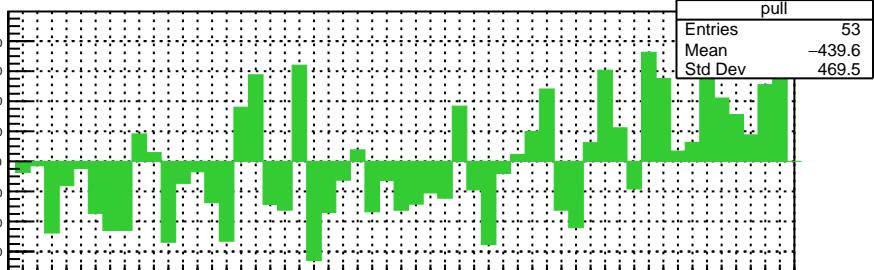
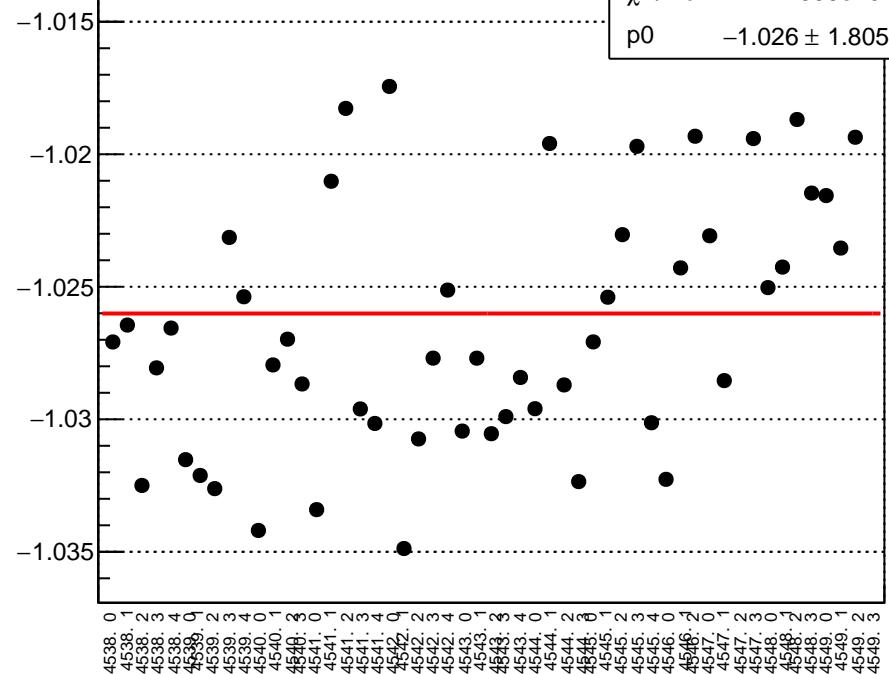


# yield\_bpm0l09Y\_rms vs run



# yield\_bpm0l10X\_mean vs run

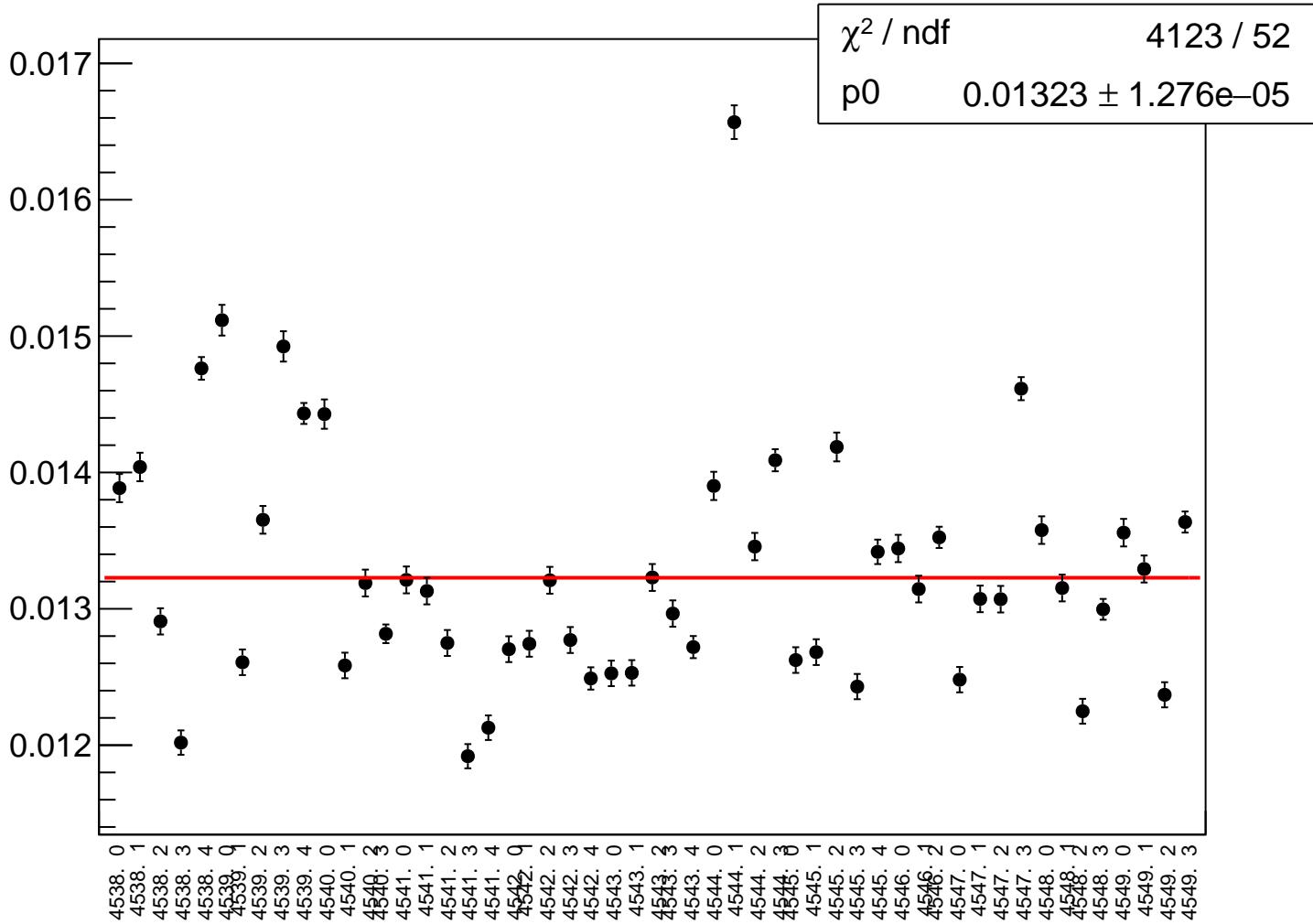
$\chi^2 / \text{ndf}$  7.666e+04 / 52  
 $p0$   $-1.026 \pm 1.805\text{e}{-05}$



pull1D

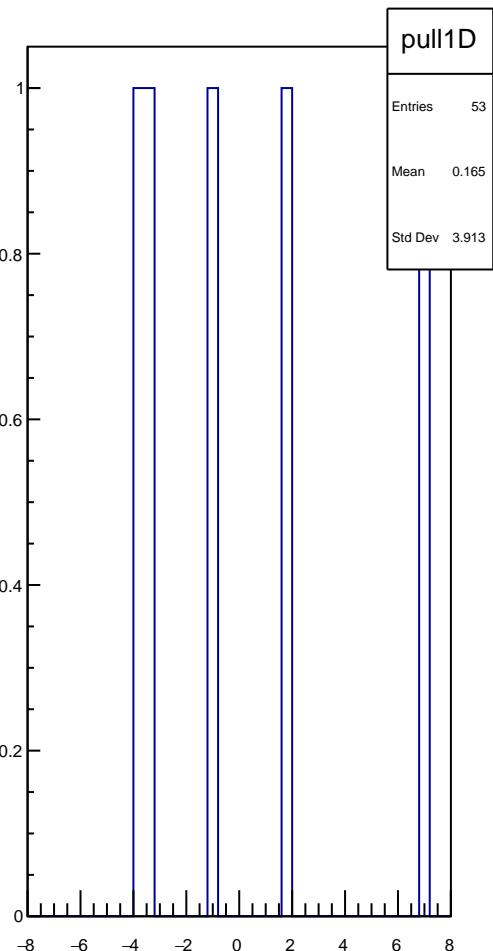
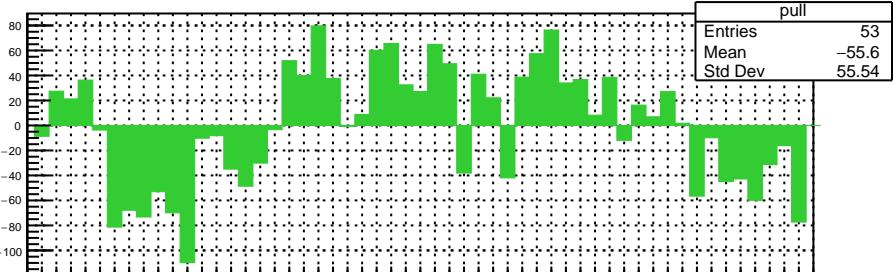
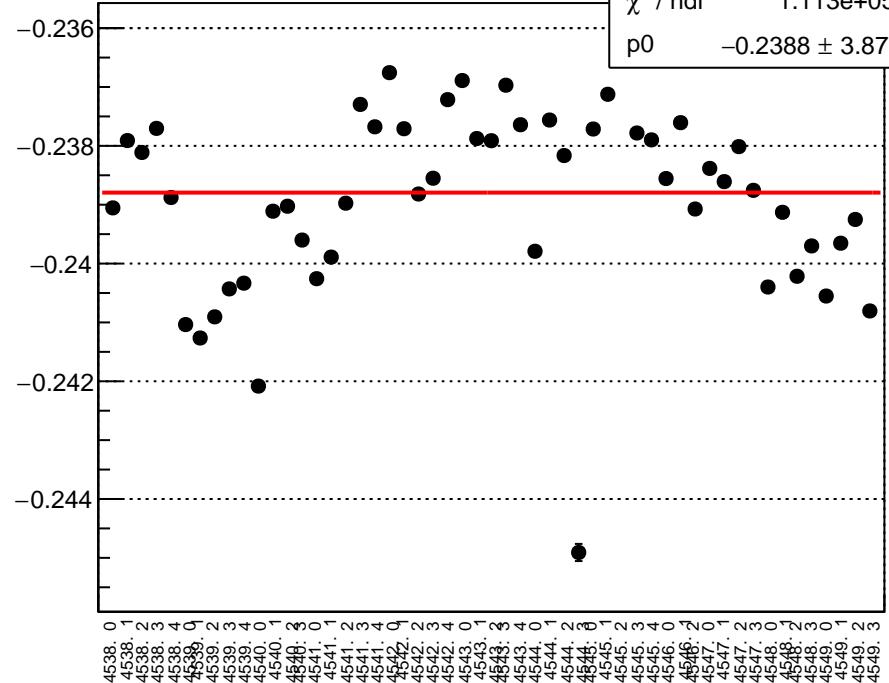
Entries 53  
 Mean 0.3724  
 Std Dev 6.04

# yield\_bpm0l10X\_rms vs run



# yield\_bpm0I10Y\_mean vs run

$\chi^2 / \text{ndf}$  1.113e+05 / 52  
 $p_0$   $-0.2388 \pm 3.87 \times 10^{-6}$



# yield\_bpm0l10Y\_rms vs run

