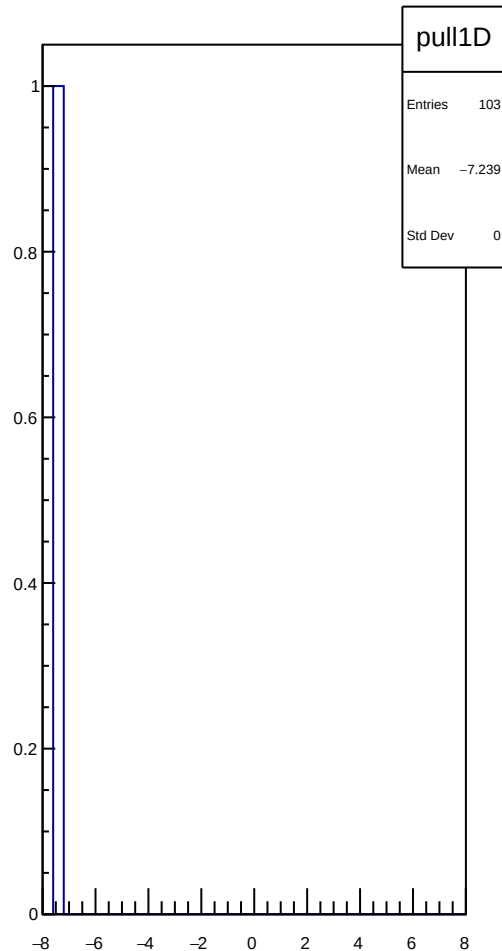
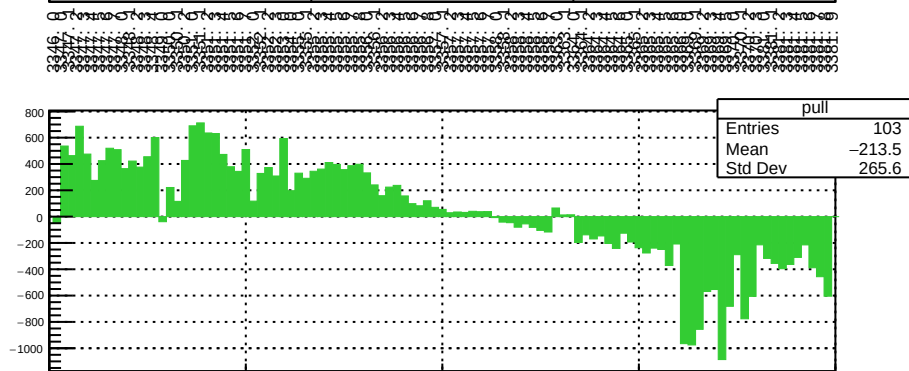
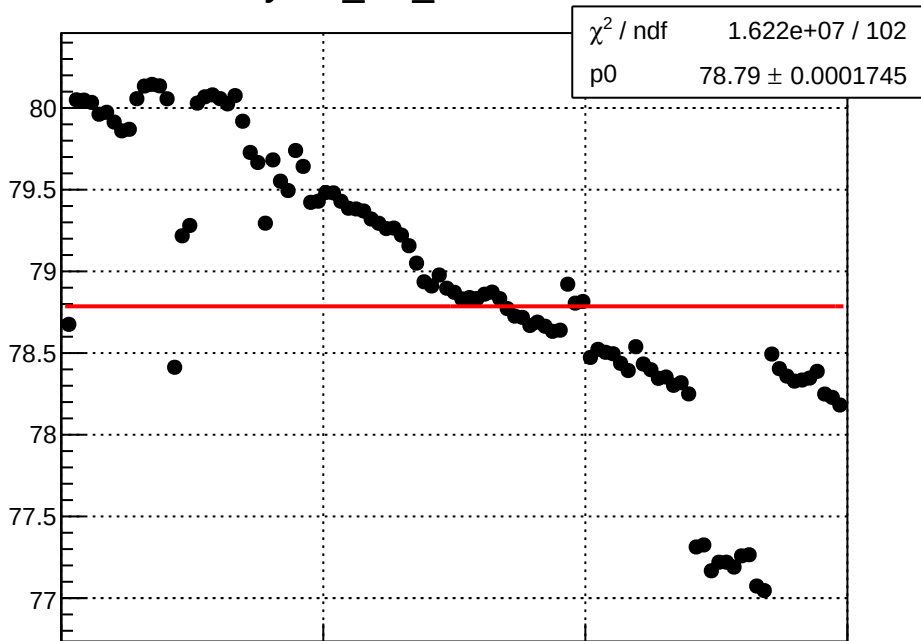
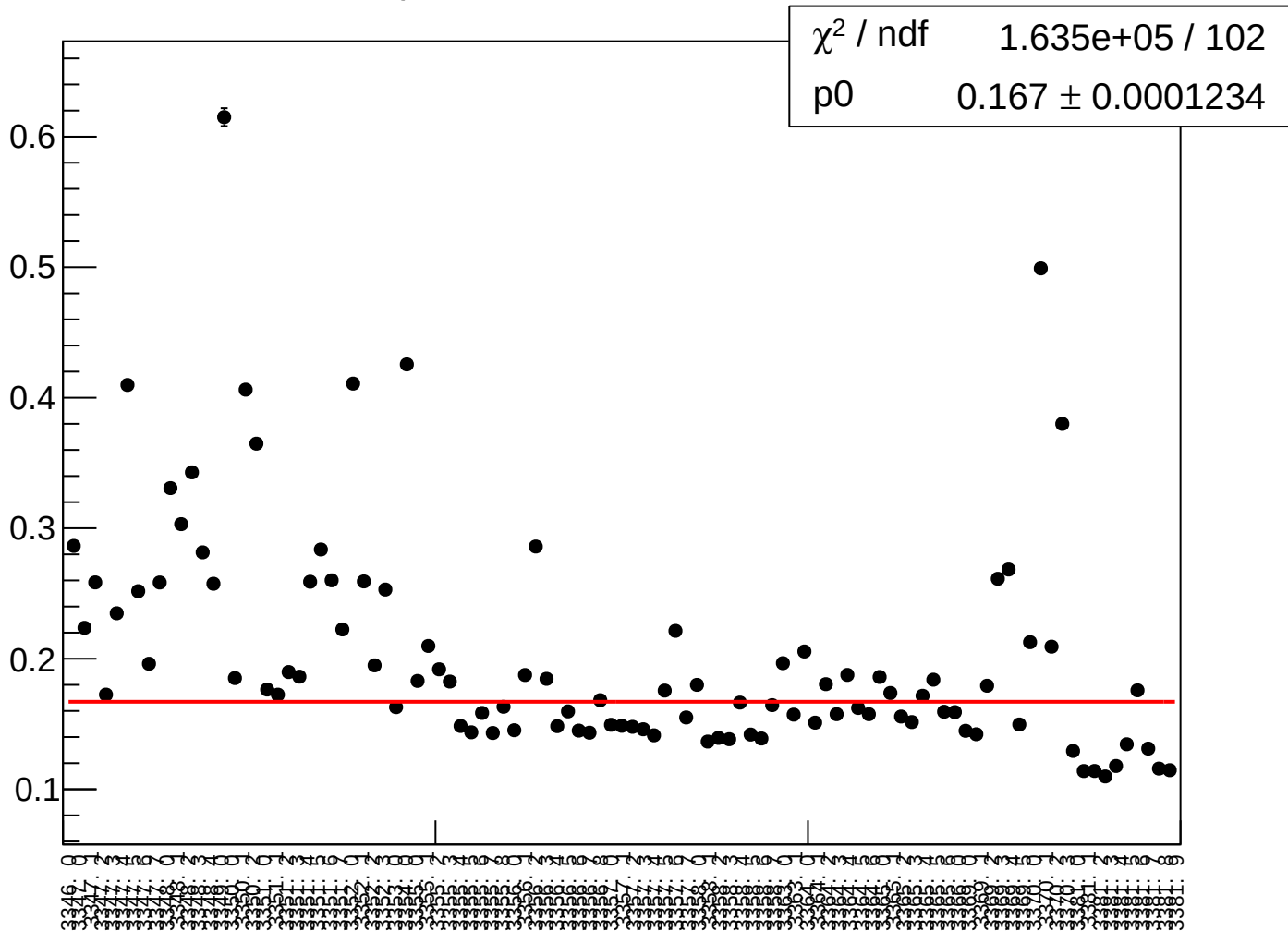


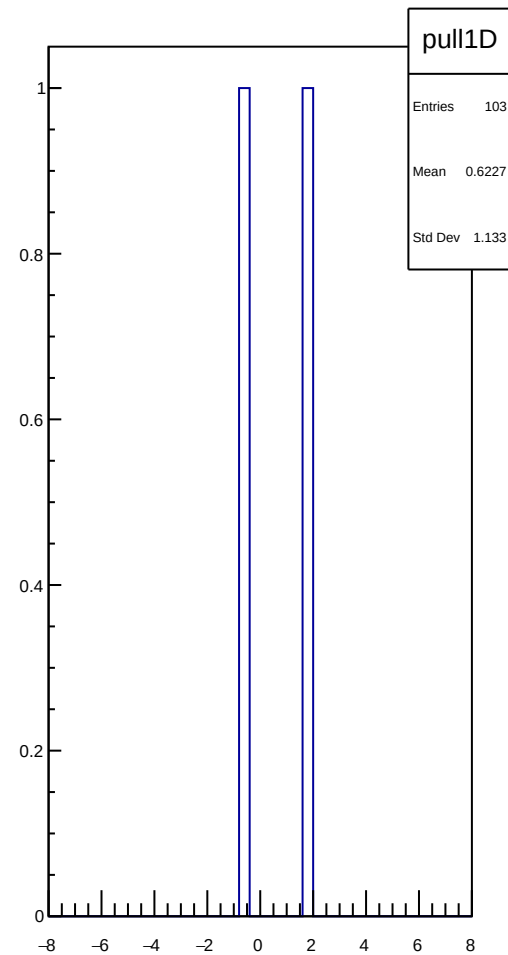
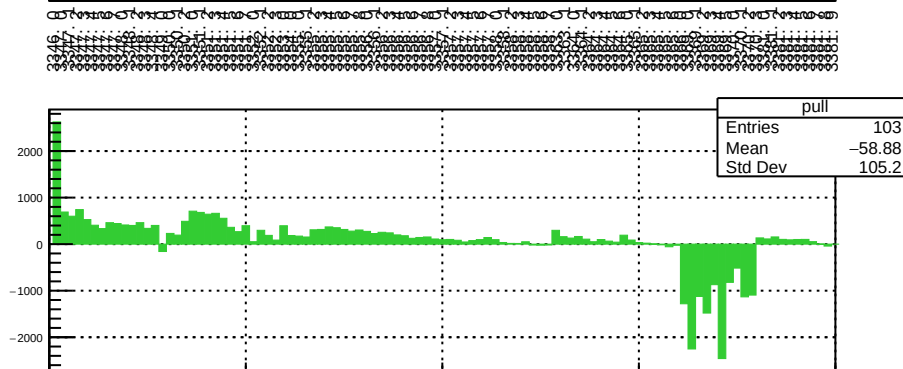
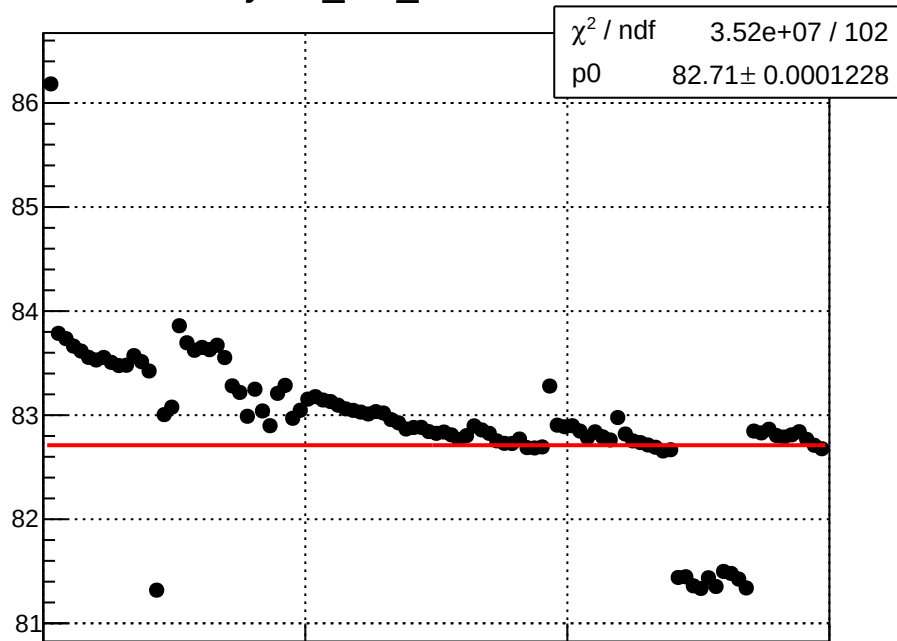
yield_usl_mean vs run



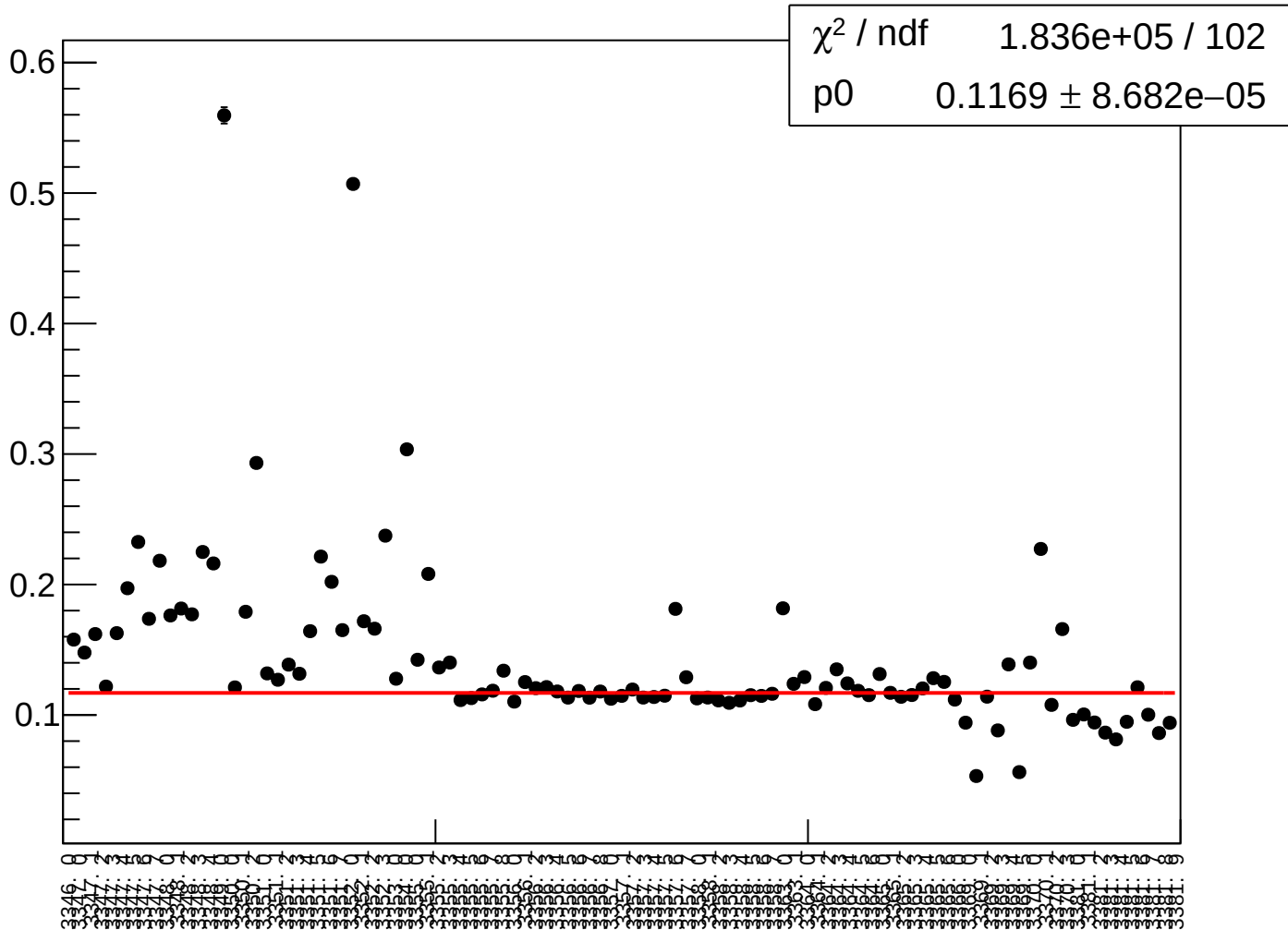
yield_usl_rms vs run



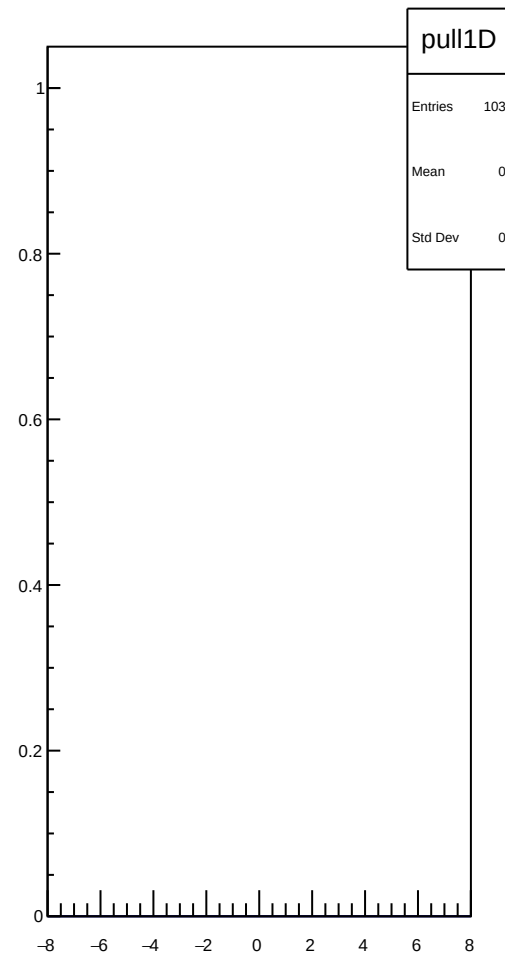
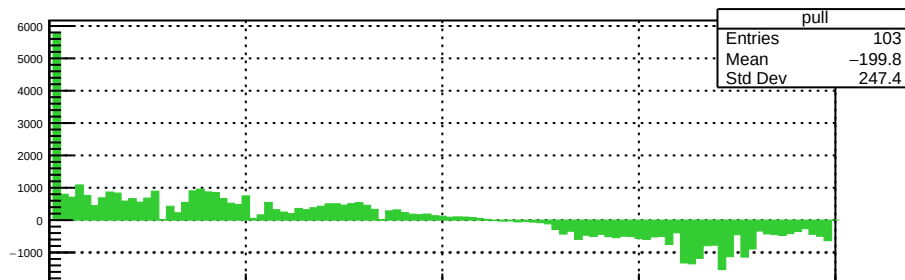
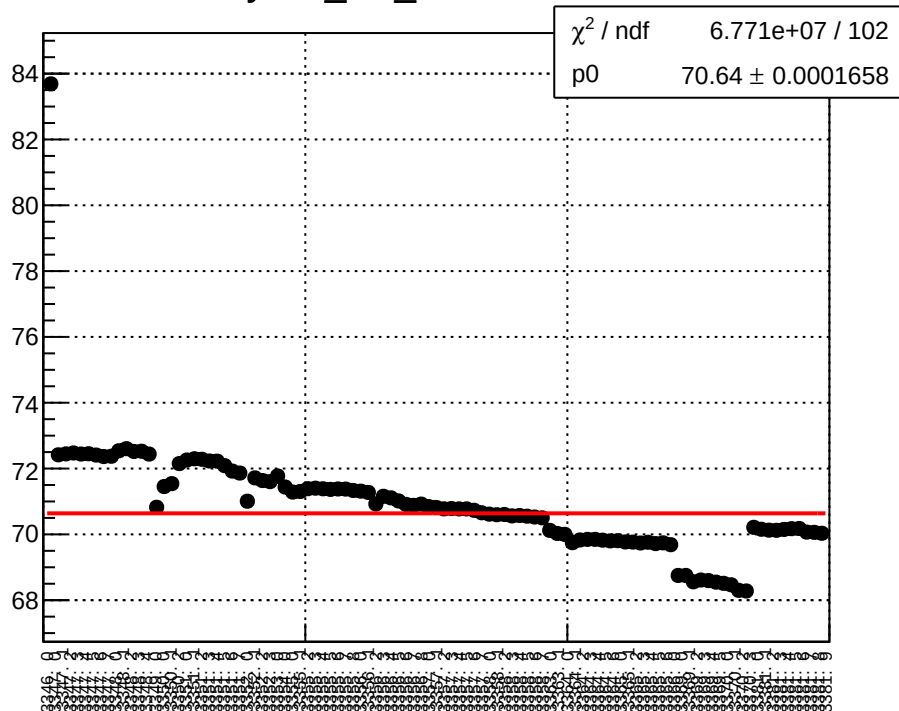
yield_usr_mean vs run



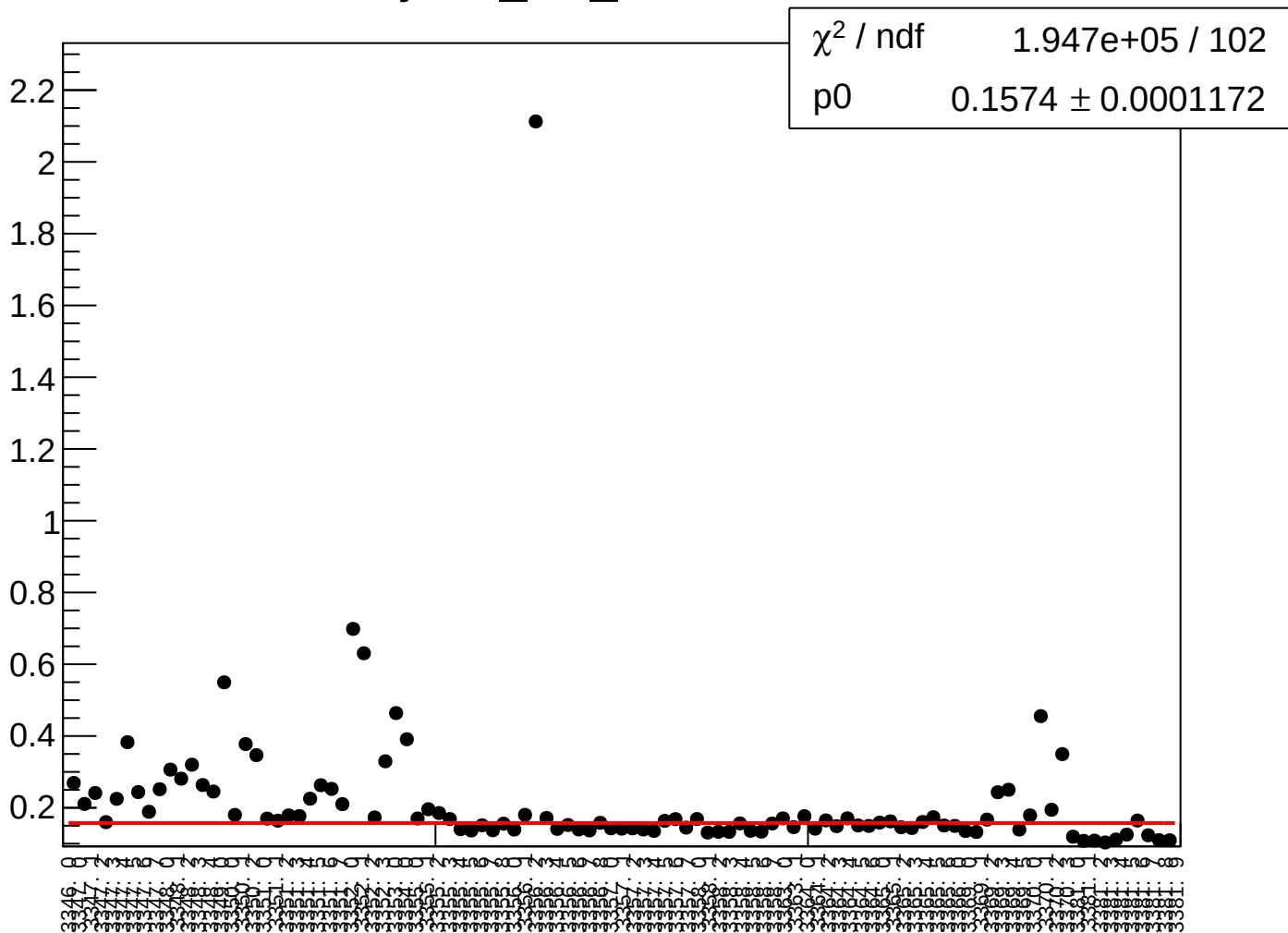
yield_usr_rms vs run



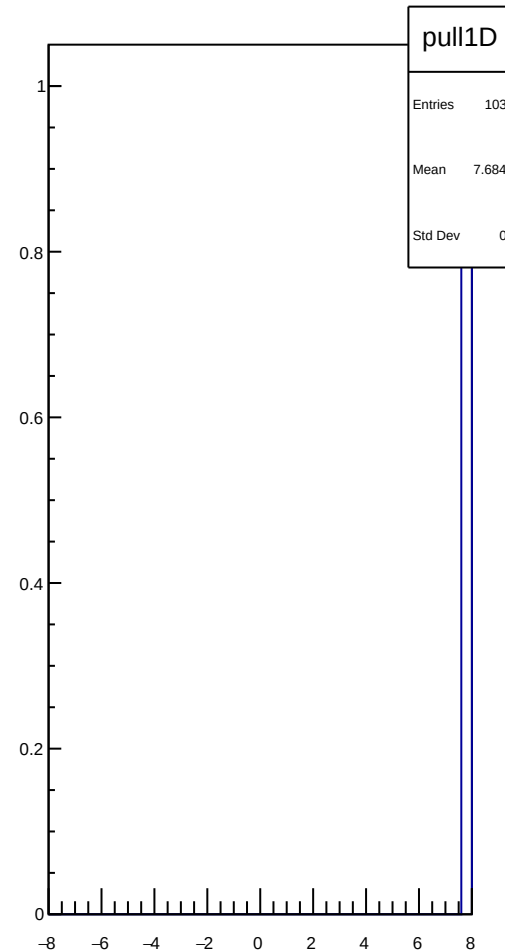
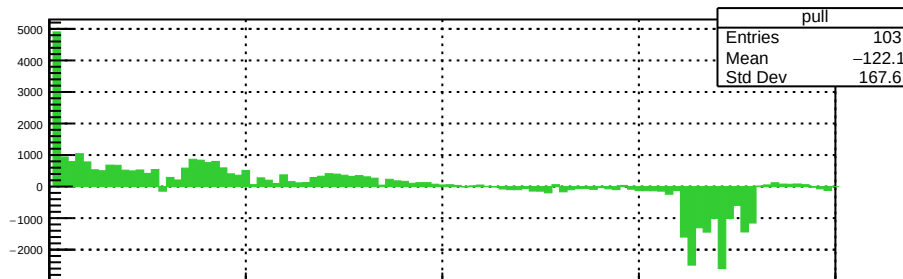
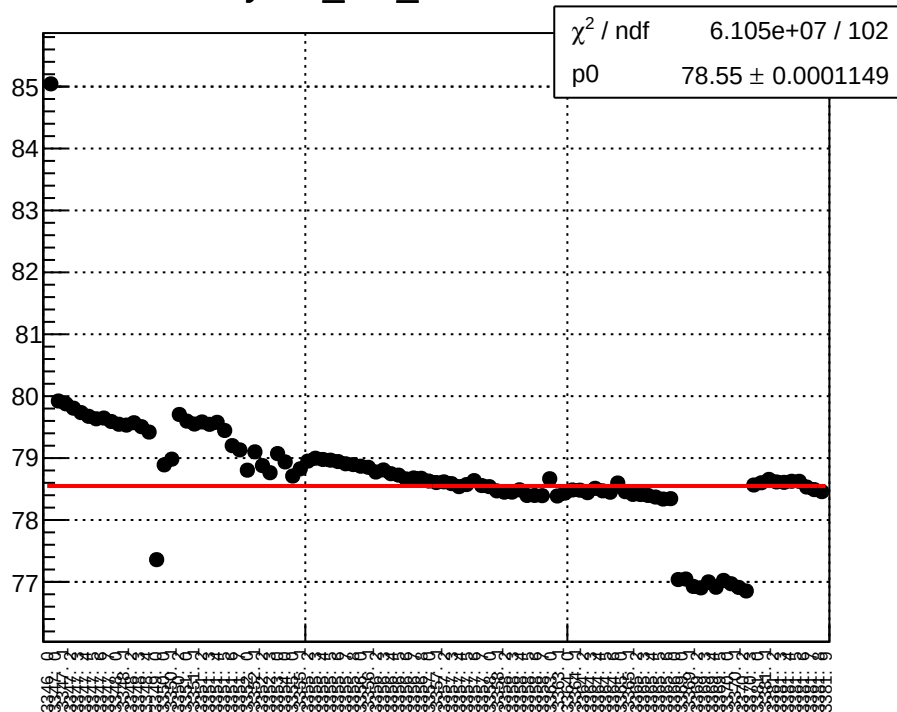
yield_dsl_mean vs run



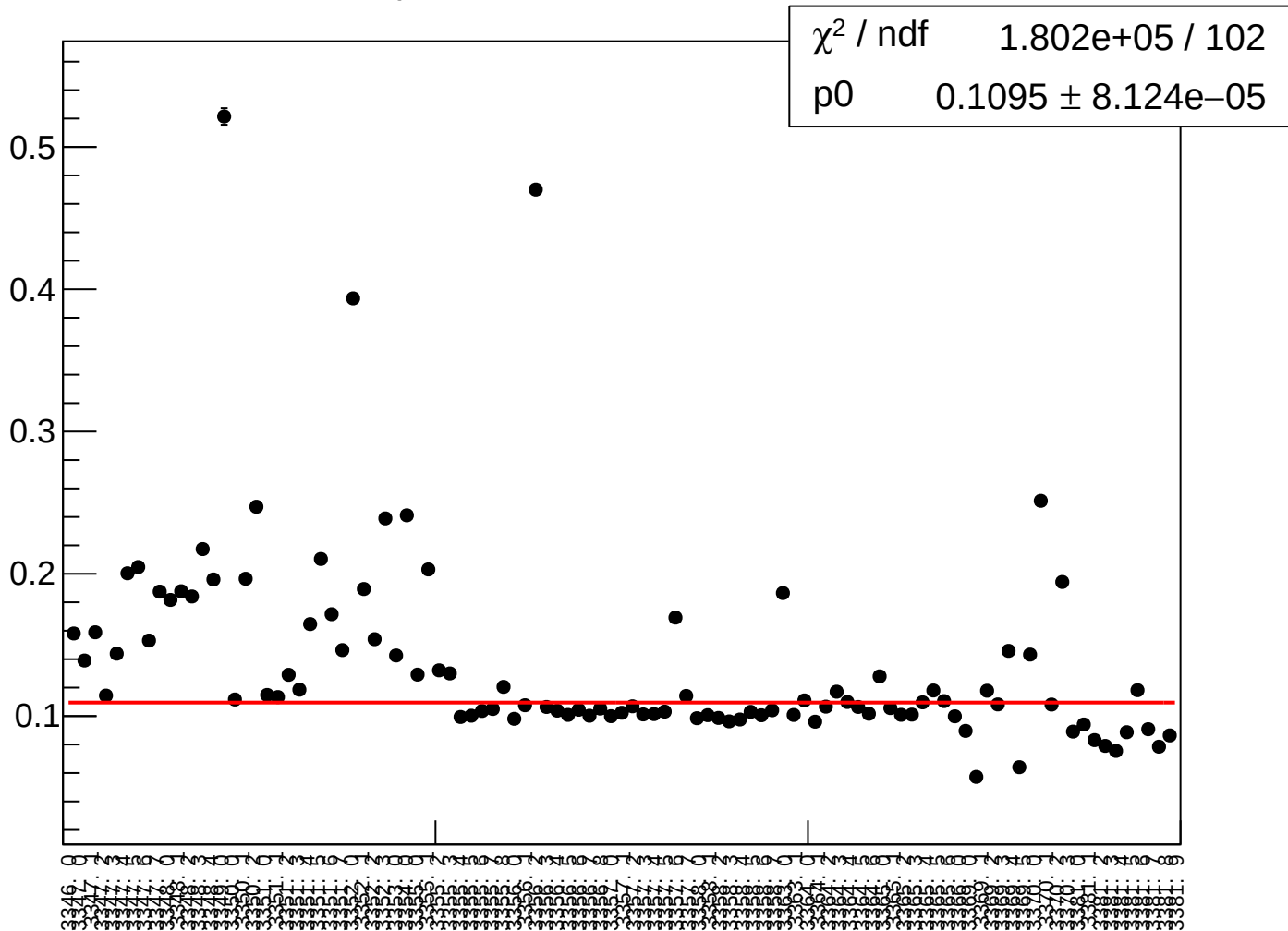
yield_dsl_rms vs run



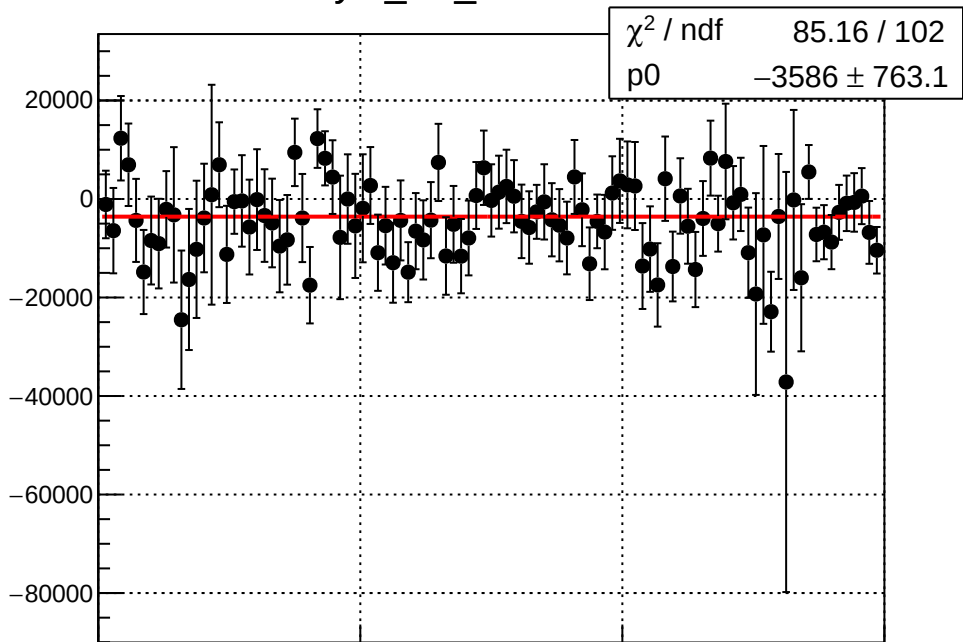
yield_dsr_mean vs run



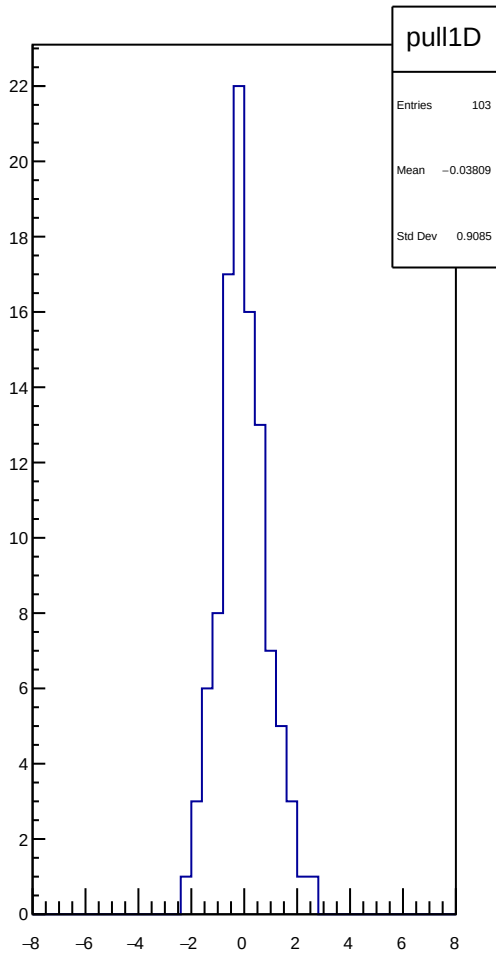
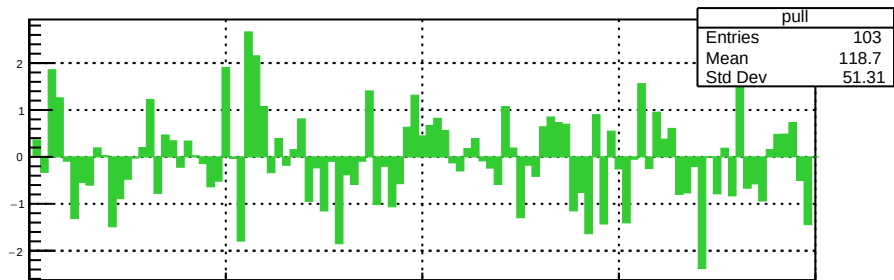
yield_dsr_rms vs run



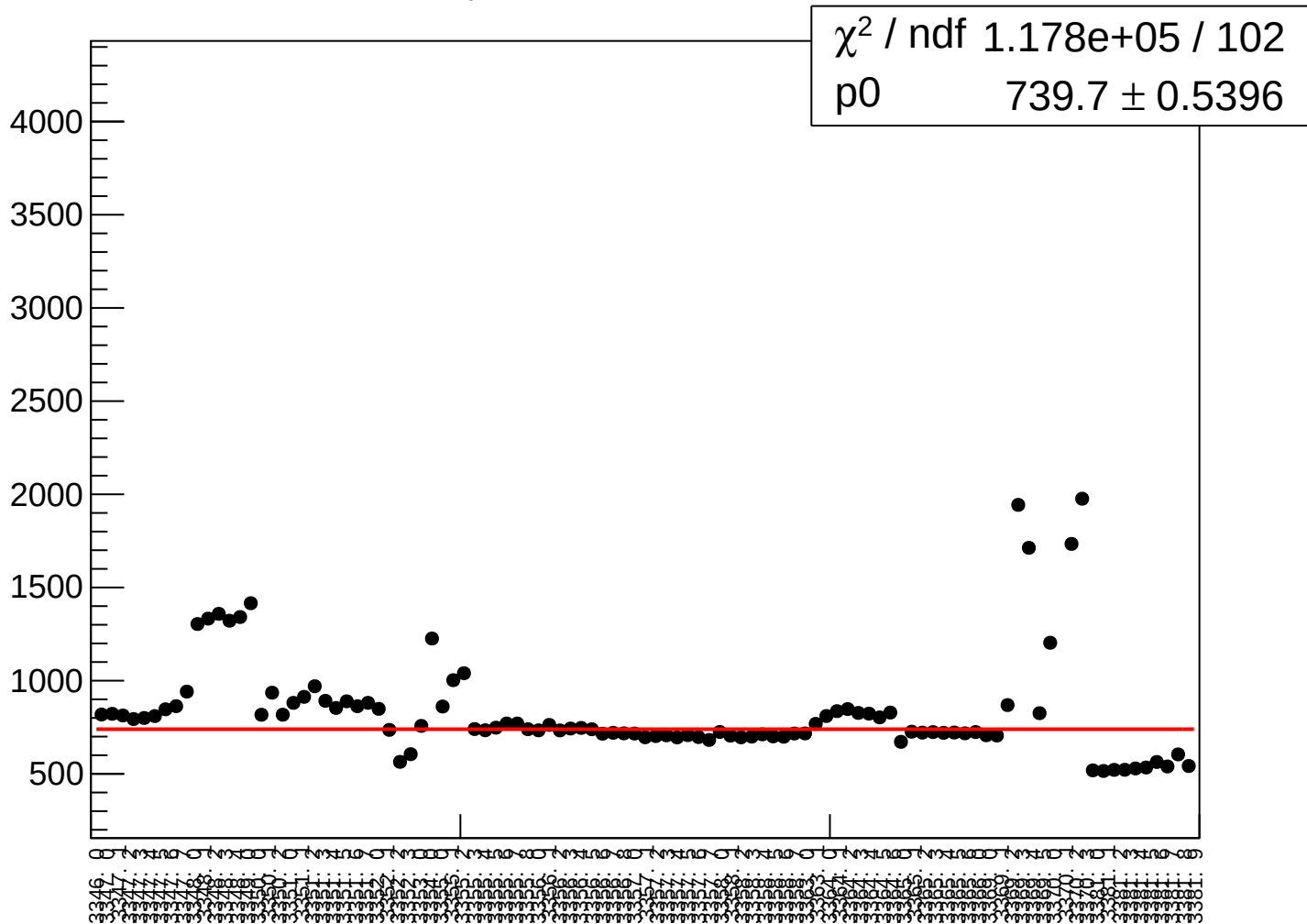
asym_usl_mean vs run



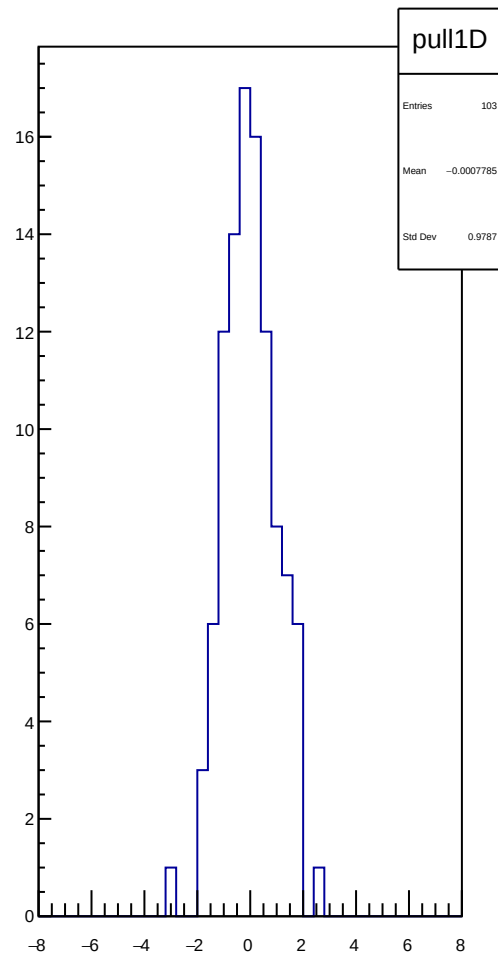
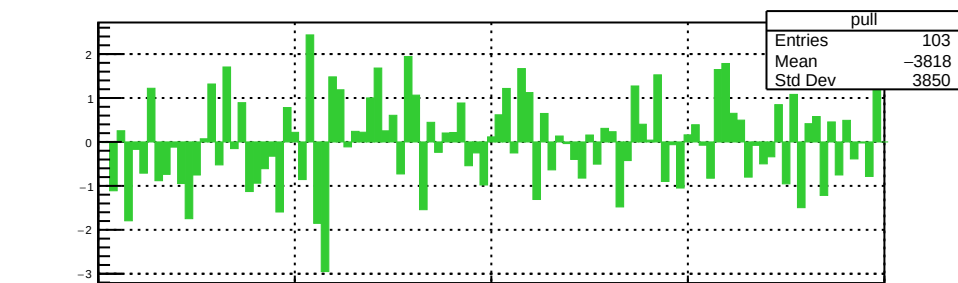
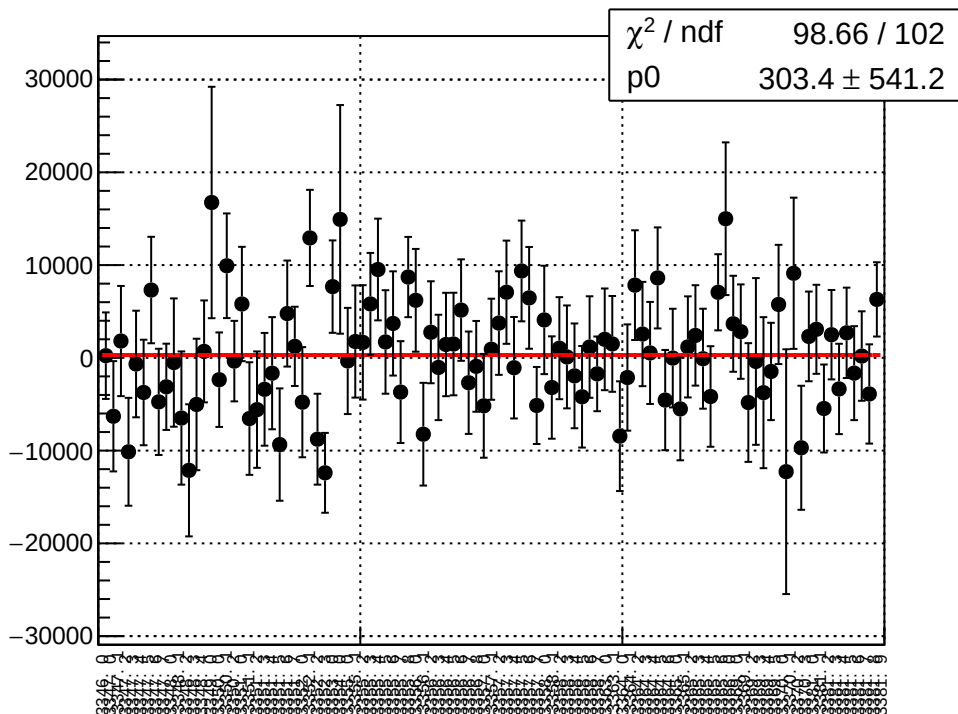
asym_usl_mean vs run



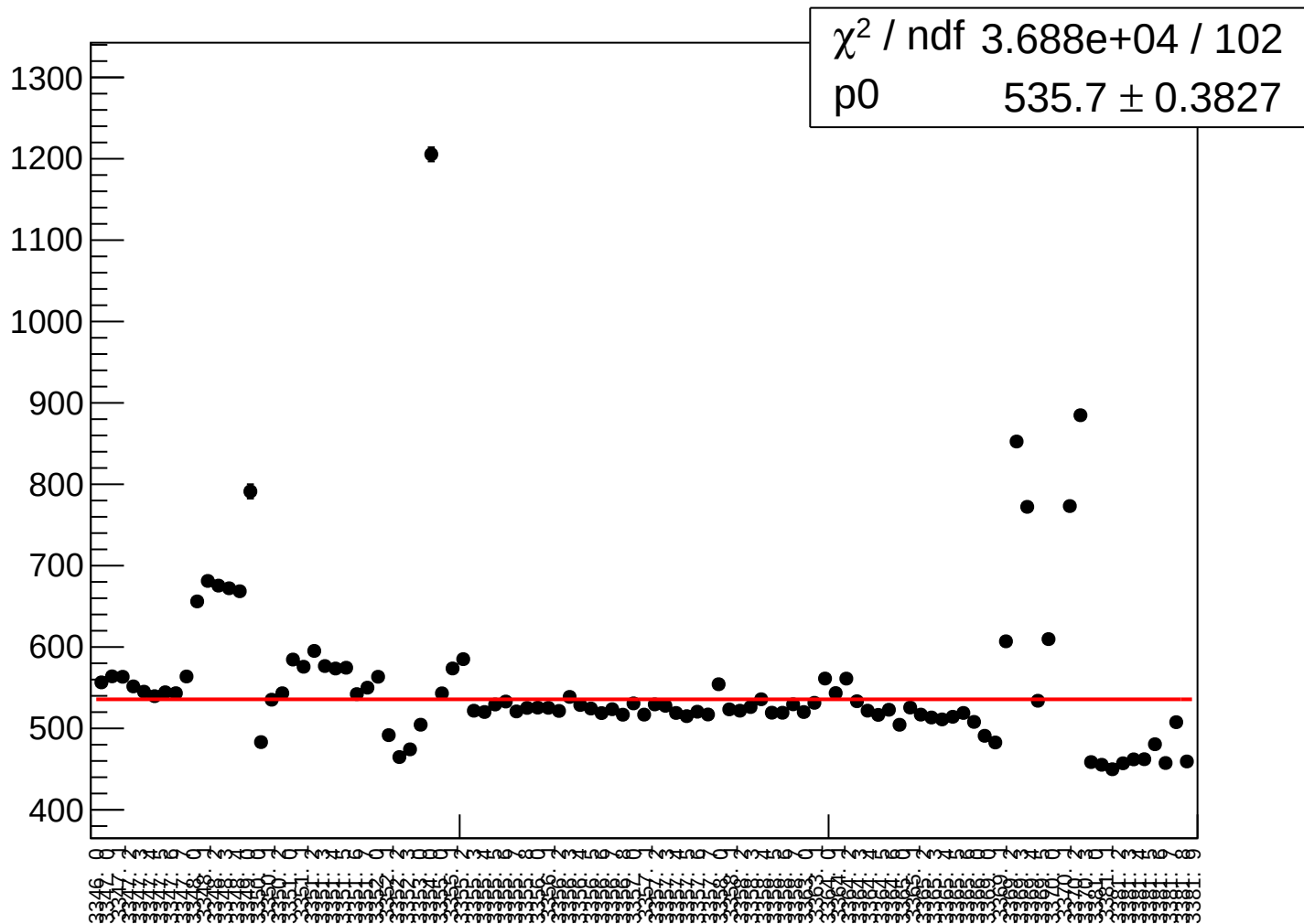
asym_usl_rms vs run



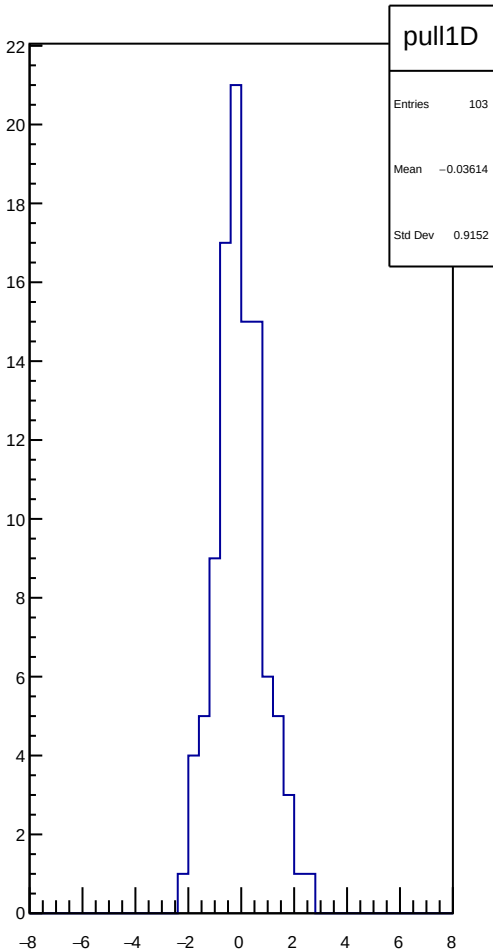
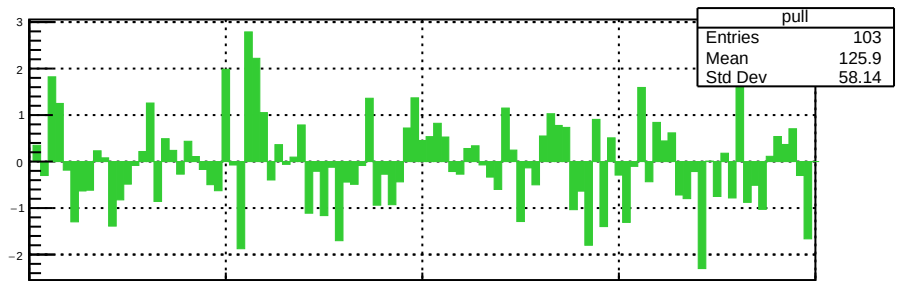
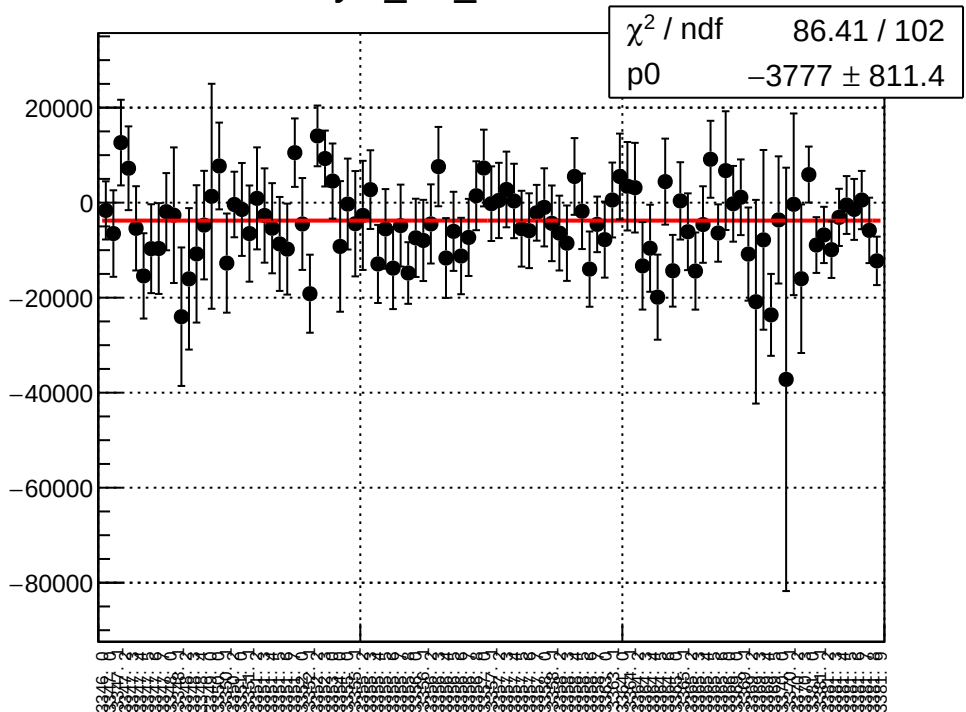
asym_usr_mean vs run



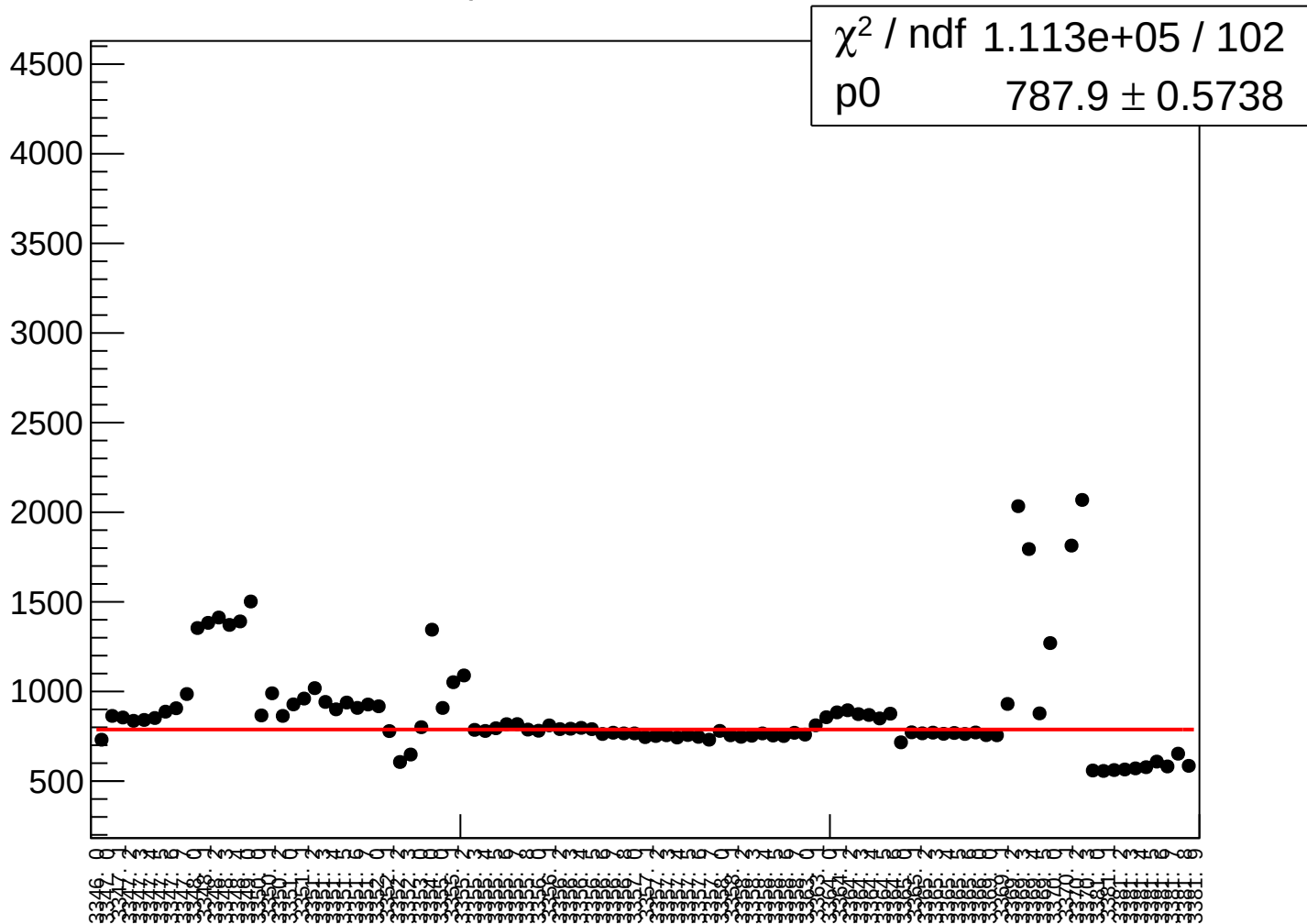
asym_usr_rms vs run



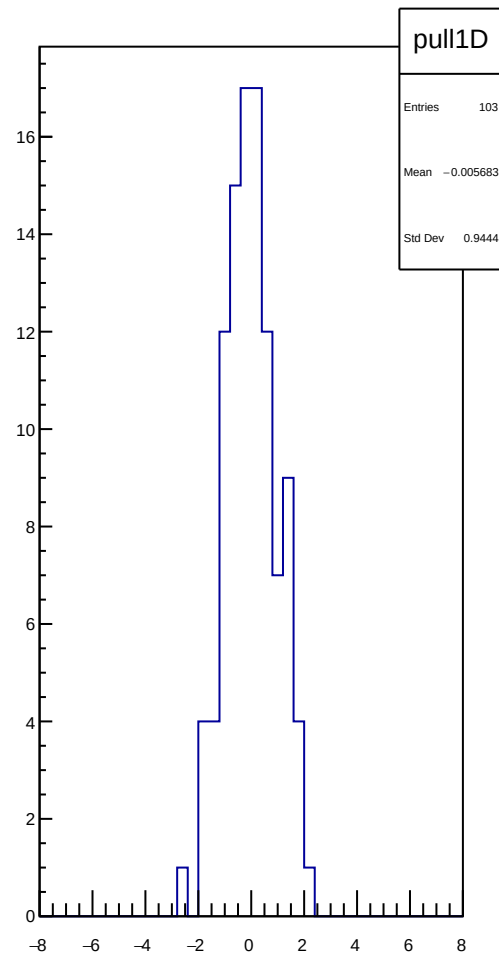
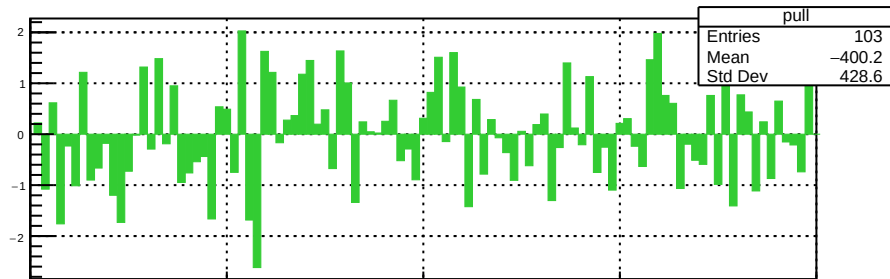
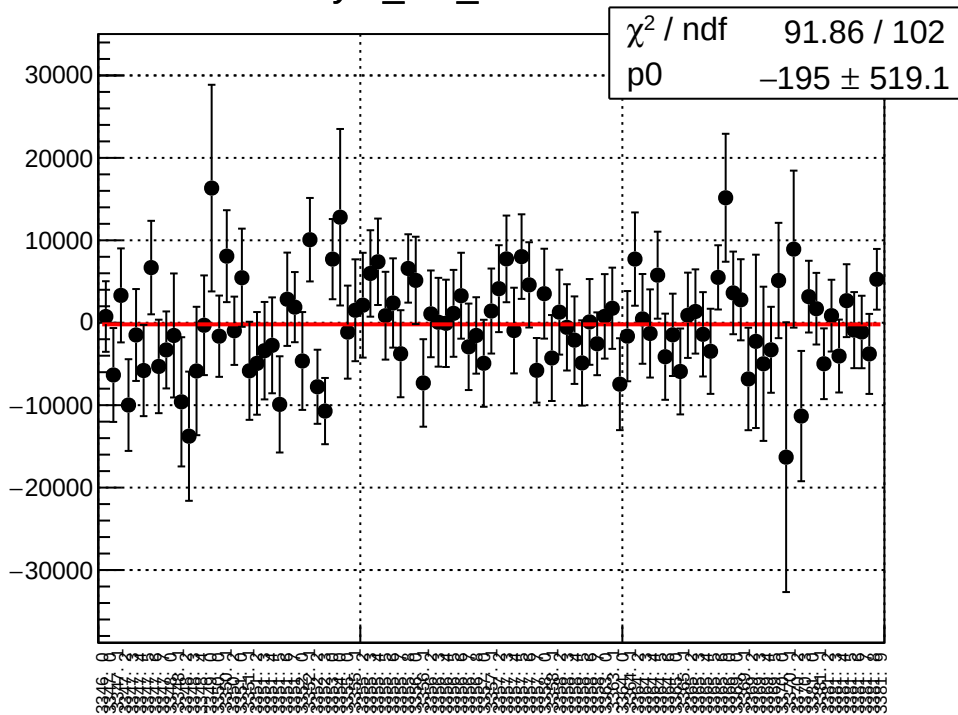
asym_dsl_mean vs run



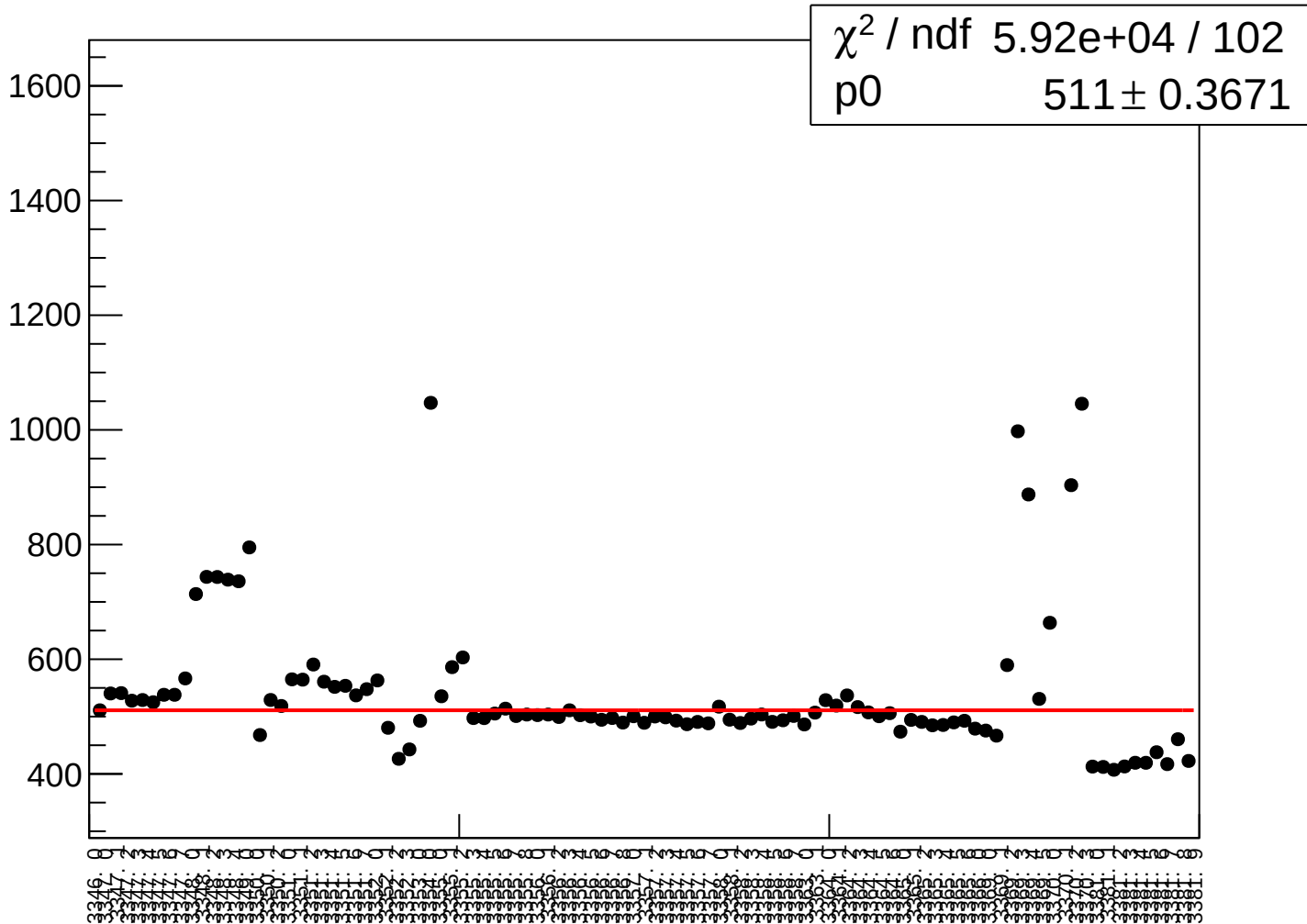
asym_dsl_rms vs run



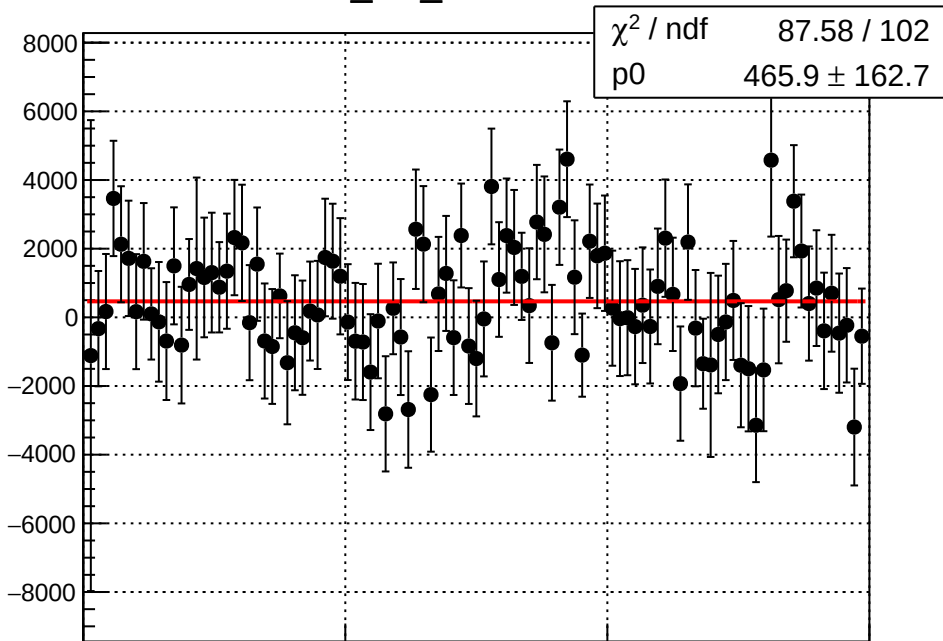
asym_dsr_mean vs run



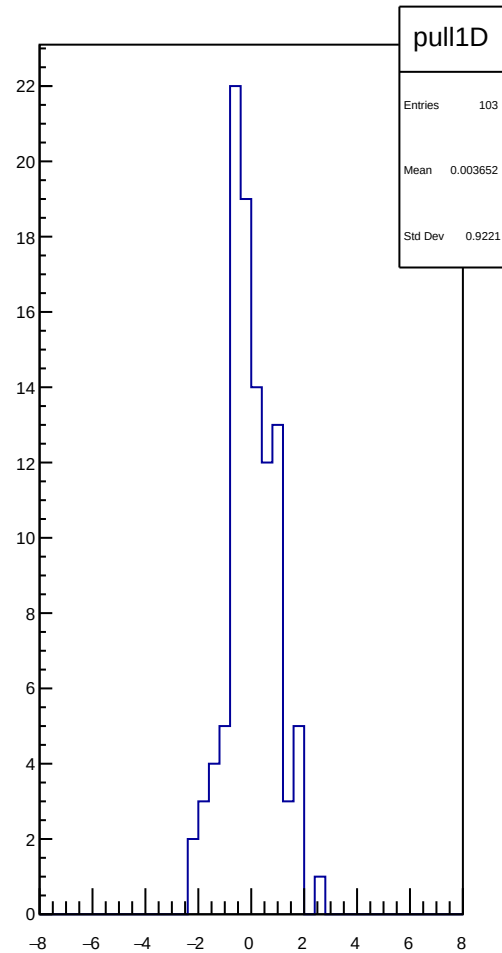
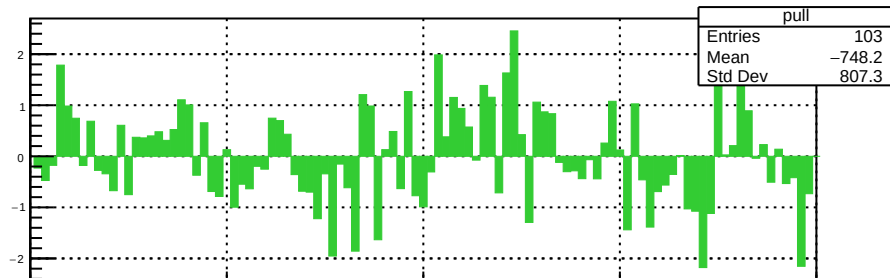
asym_dsr_rms vs run



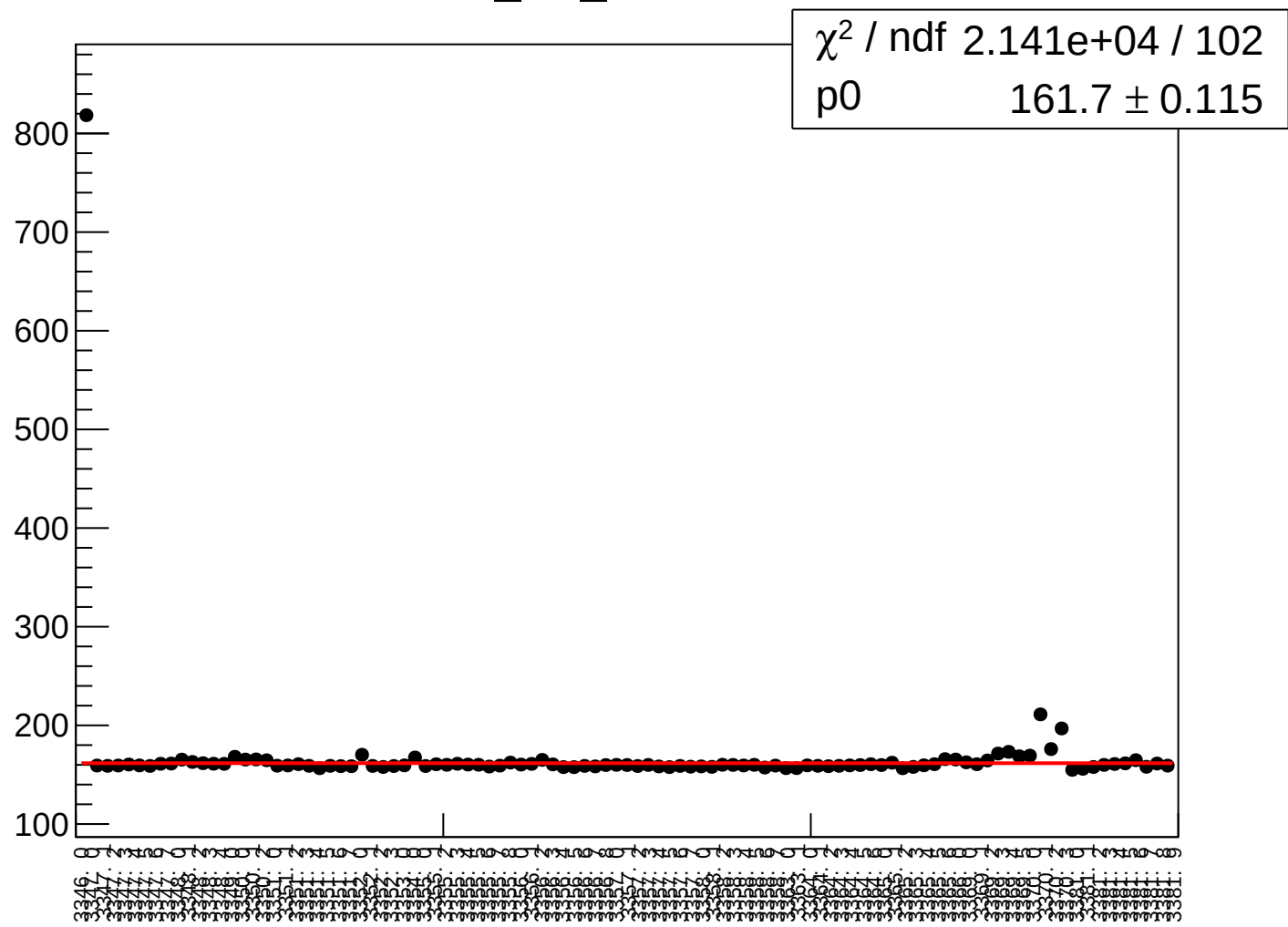
cor_usl_mean vs run



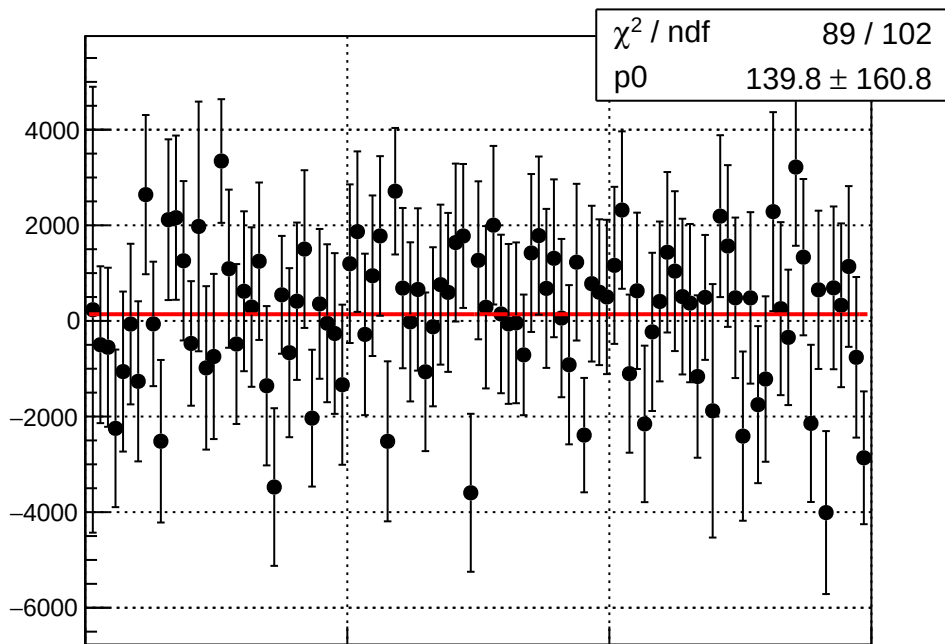
Correlation coefficient (C) vs run (R) for the fit. The plot shows the correlation coefficient (C) on the Y-axis (ranging from -2 to 2) versus run (R) on the X-axis (ranging from 0 to 100). The data points are shown as a series of vertical bars, indicating the correlation coefficient for each run. The bars are mostly green, with some red bars indicating negative correlation. The overall trend shows a slight increase in correlation coefficient as run increases, peaking around run 50 and then decreasing.



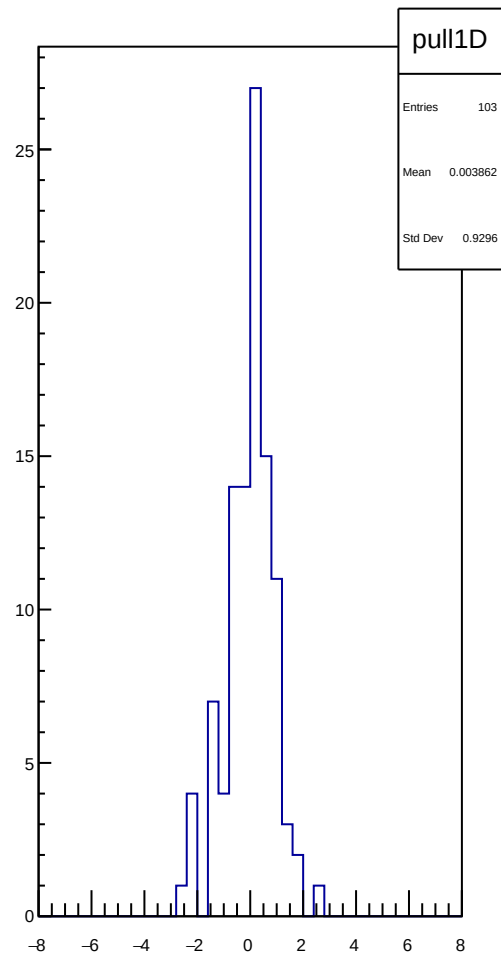
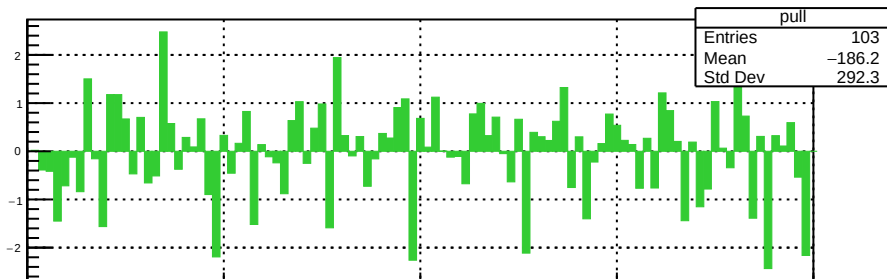
cor_usl_rms vs run



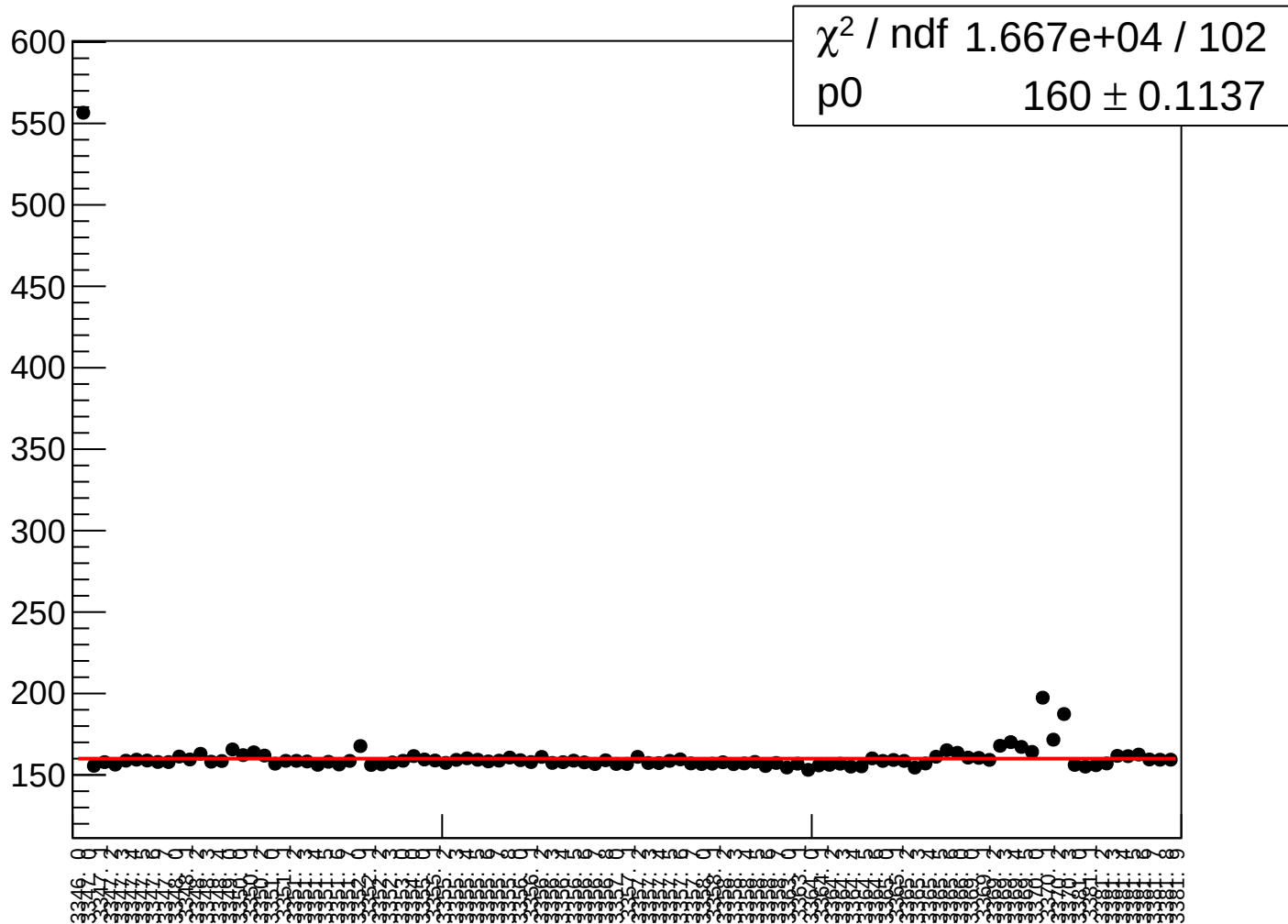
cor_usr_mean vs run



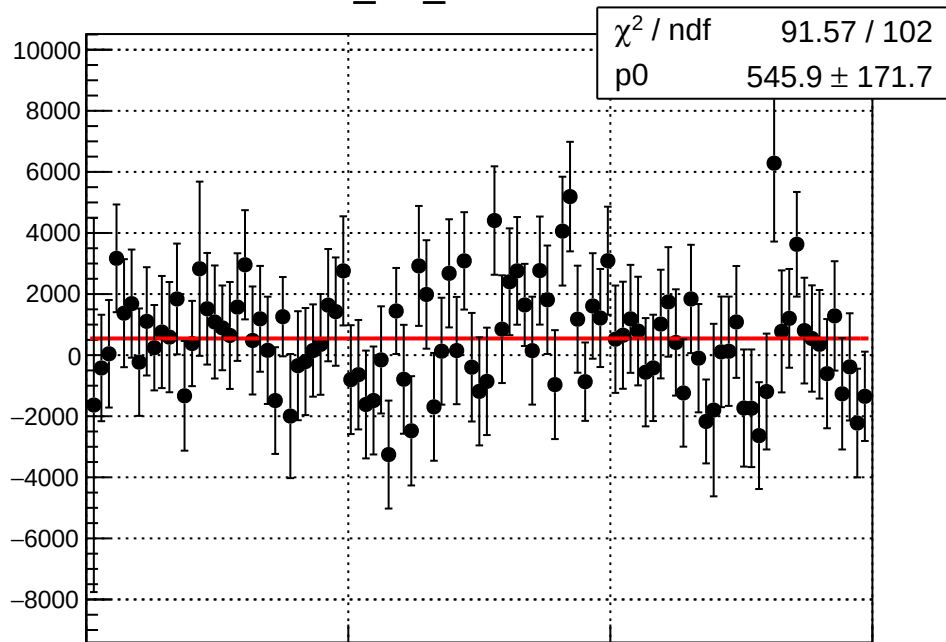
Correlation of user means across different runs. The plot shows a distribution of values around zero, indicating no significant correlation.



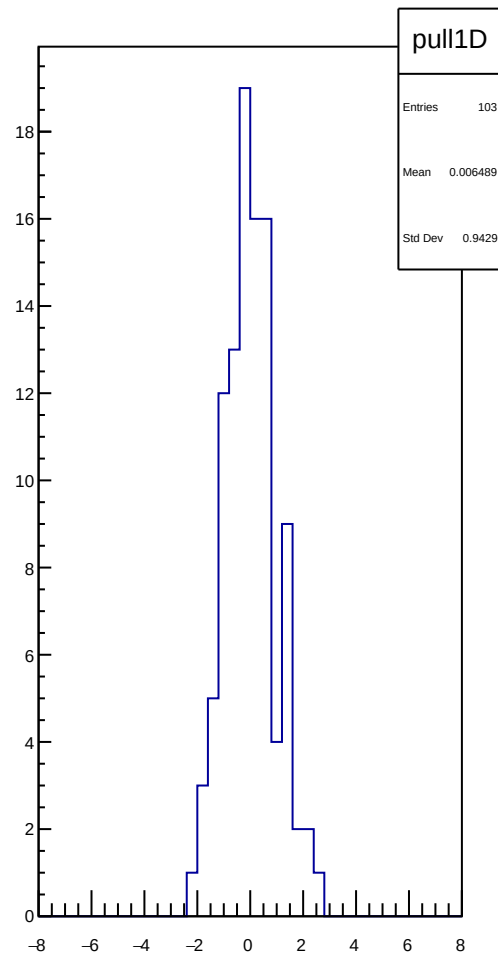
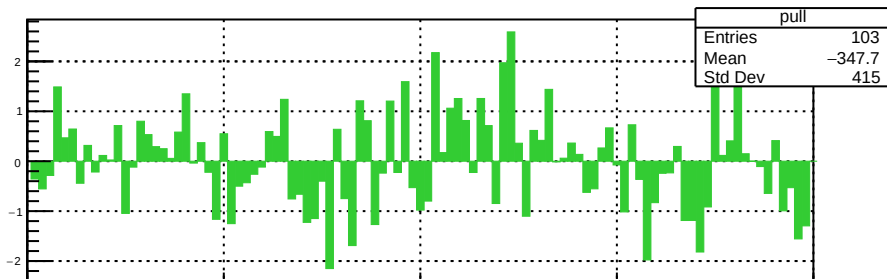
cor_usr_rms vs run



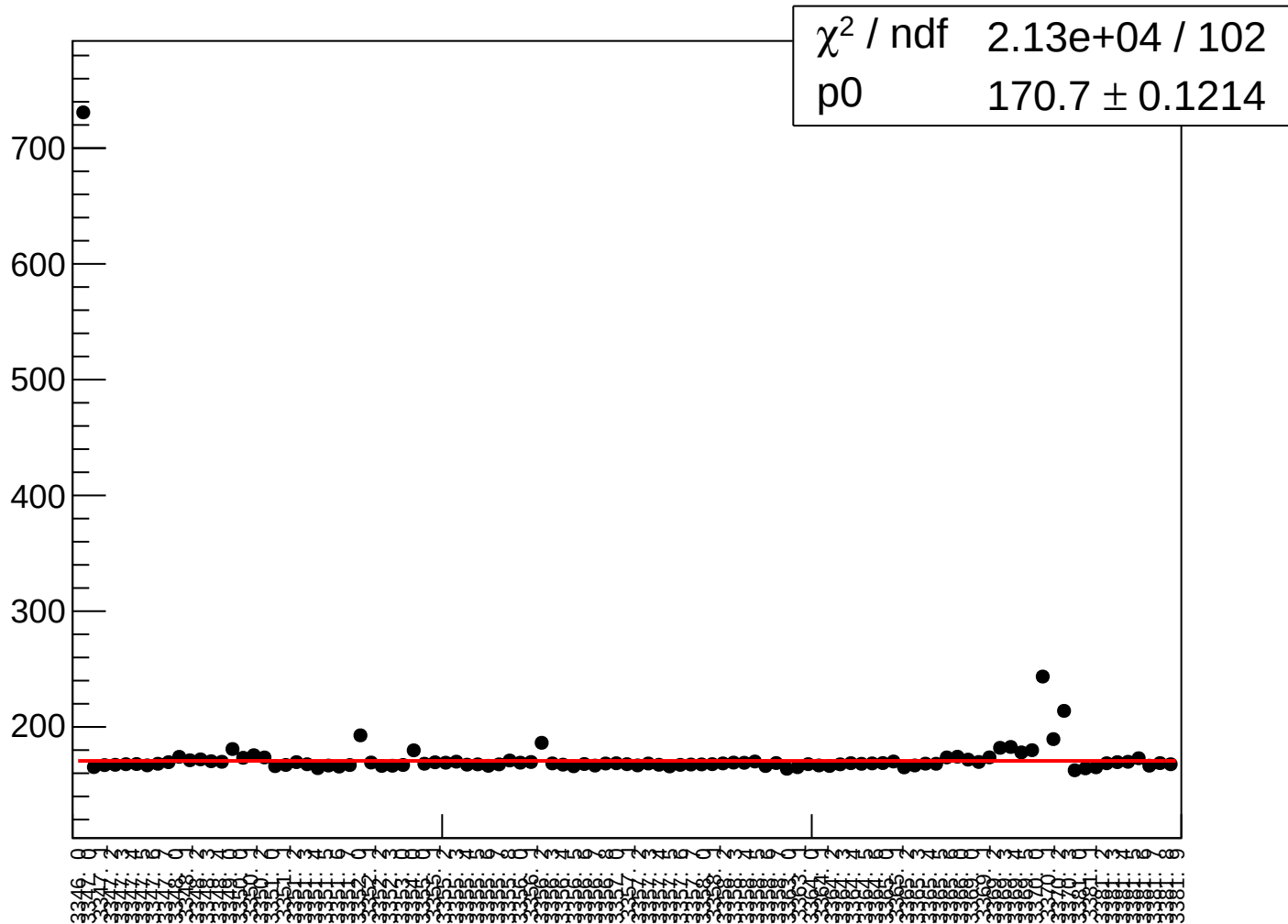
cor_dsl_mean vs run



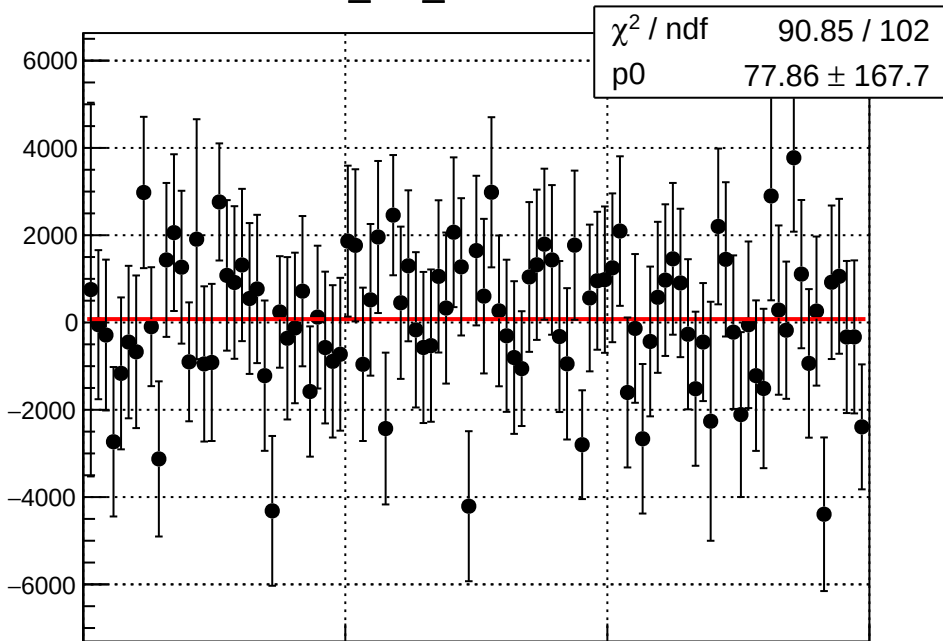
Correlation coefficient: 0.006489



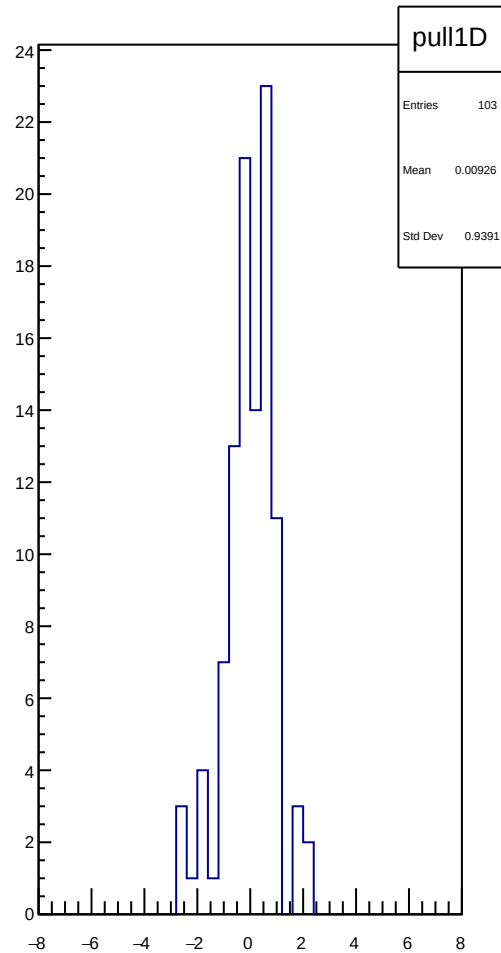
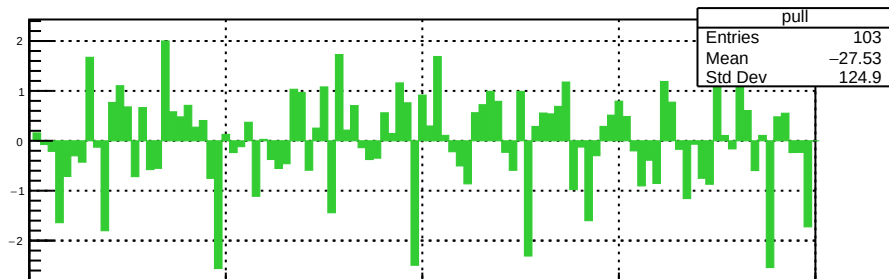
cor_dsl_rms vs run



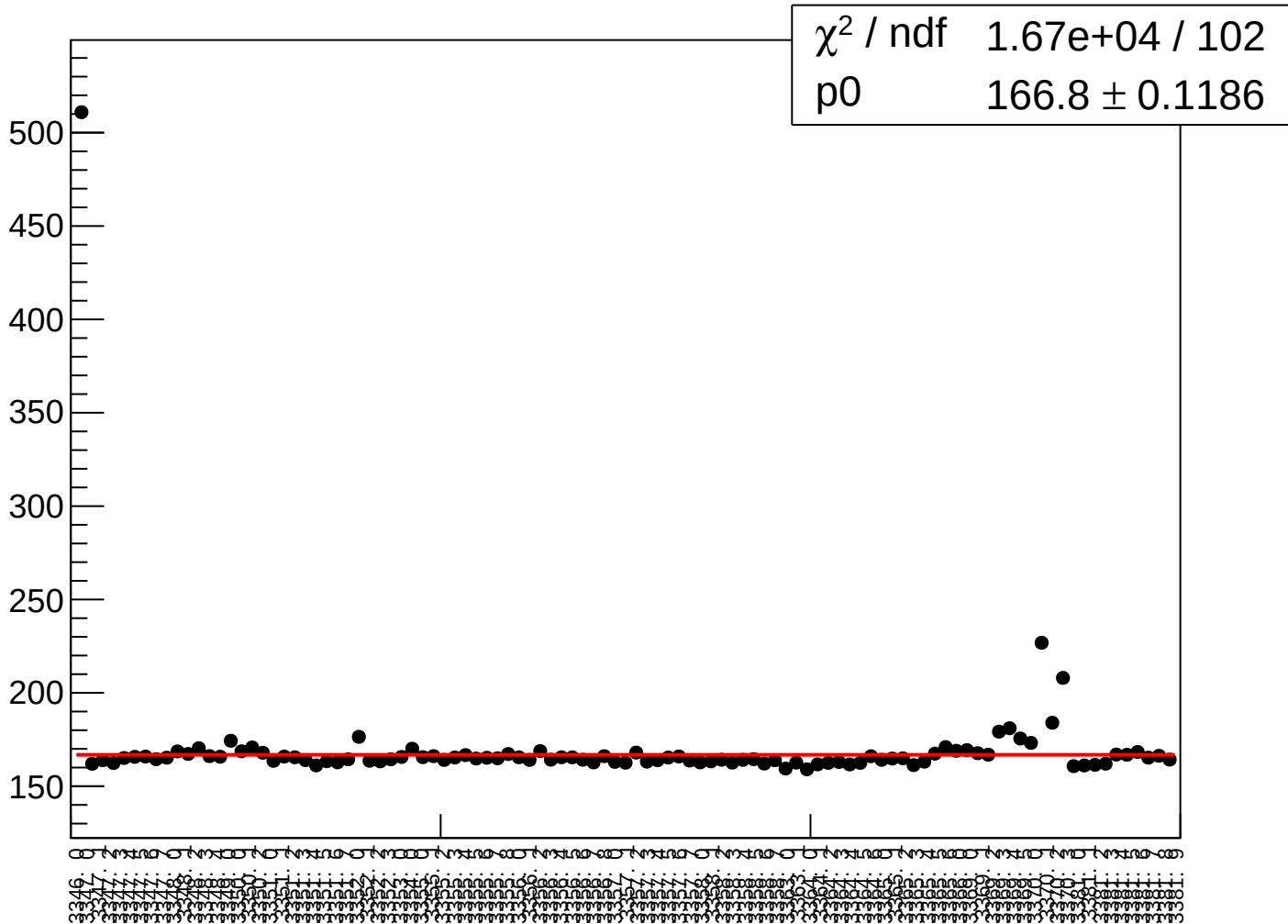
cor_dsr_mean vs run



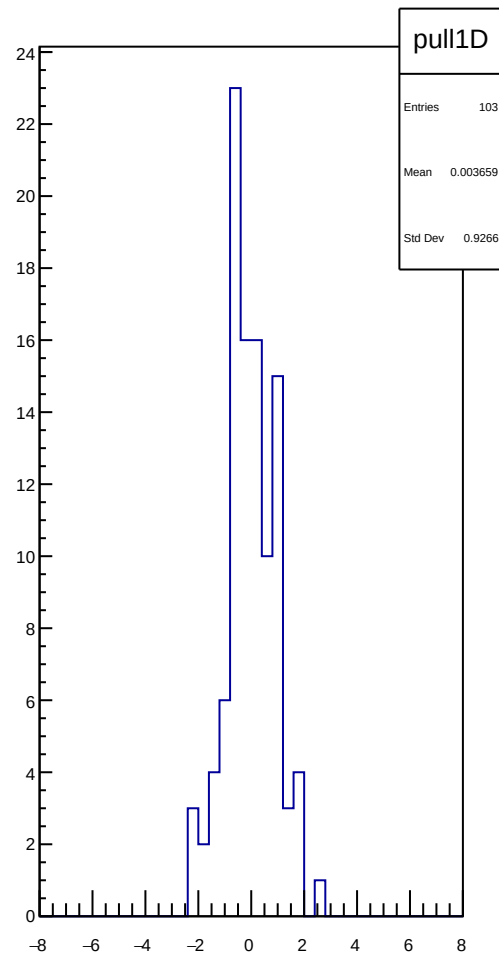
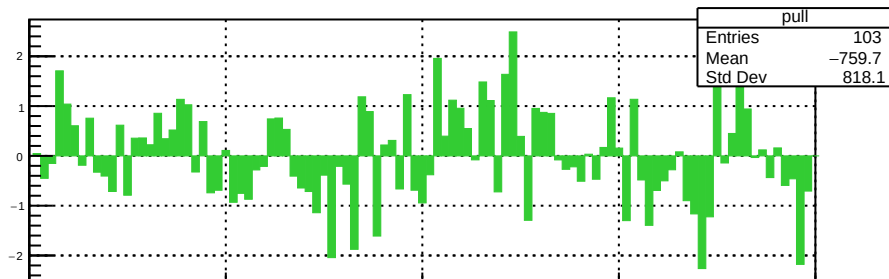
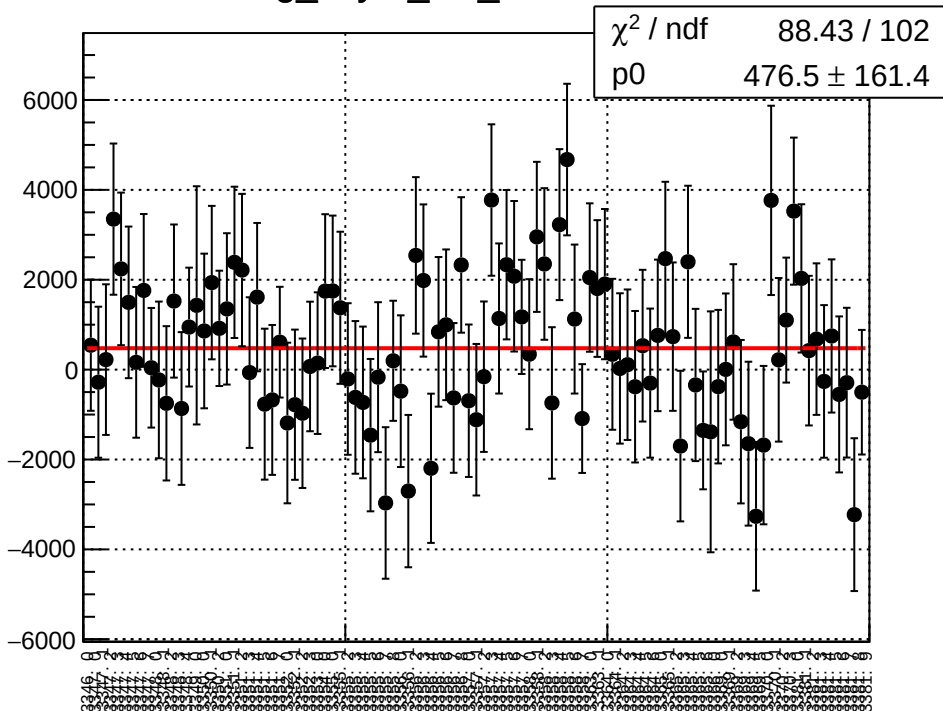
Correlation of the mean of the distribution of the difference of the signal and the background (cor_dsr_mean) versus the run number. The y-axis ranges from -6000 to 6000, and the x-axis ranges from 0 to 100. A horizontal red line is drawn at y=0. The data points are black circles with vertical error bars.



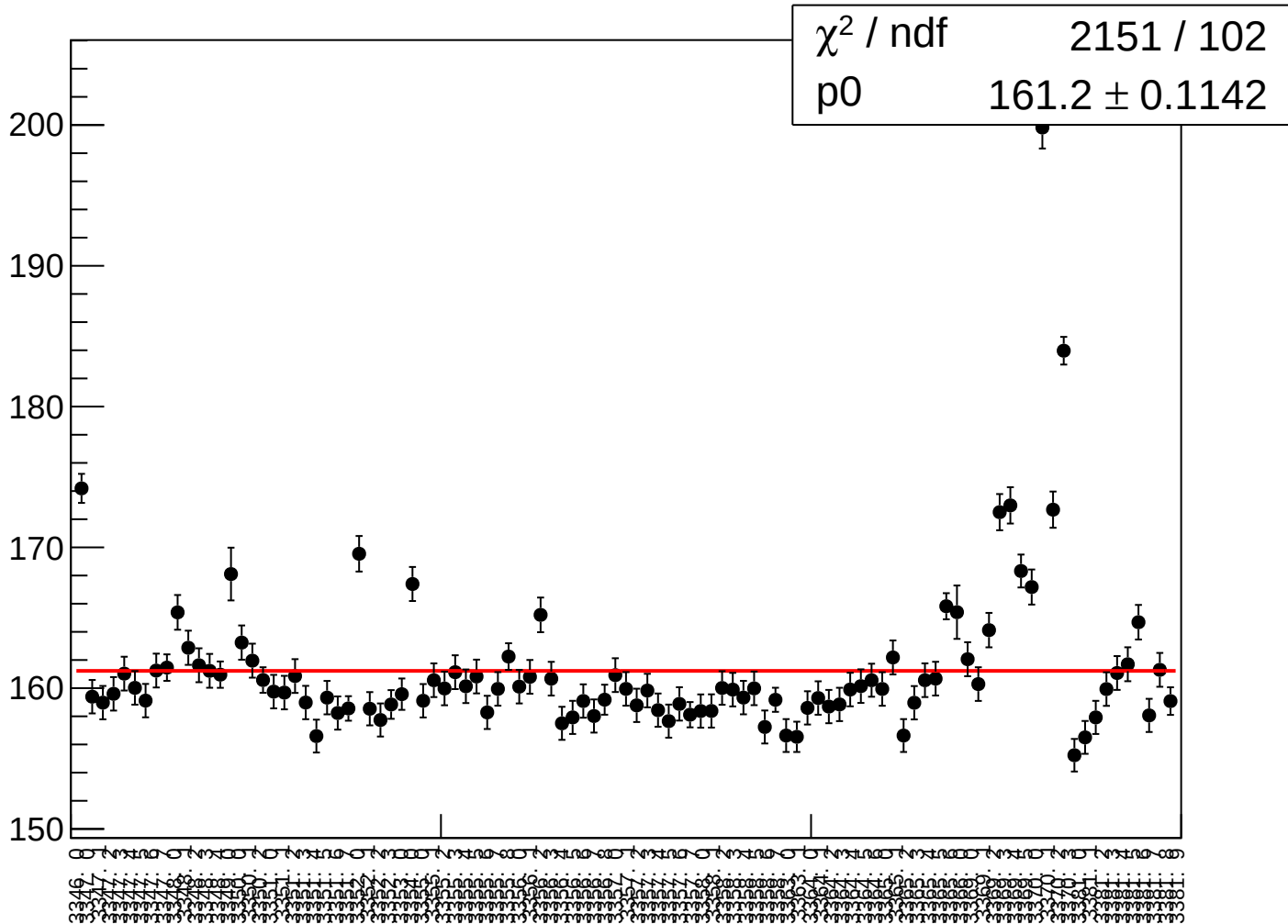
cor_dsr_rms vs run



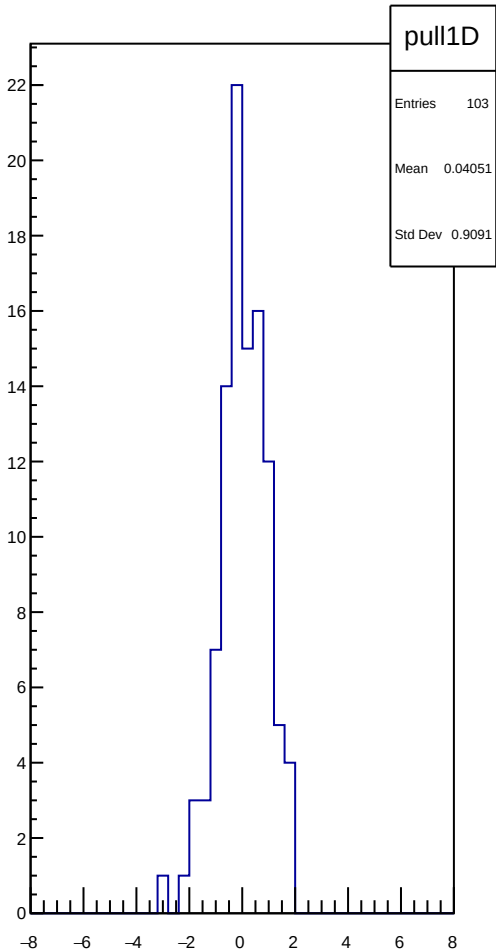
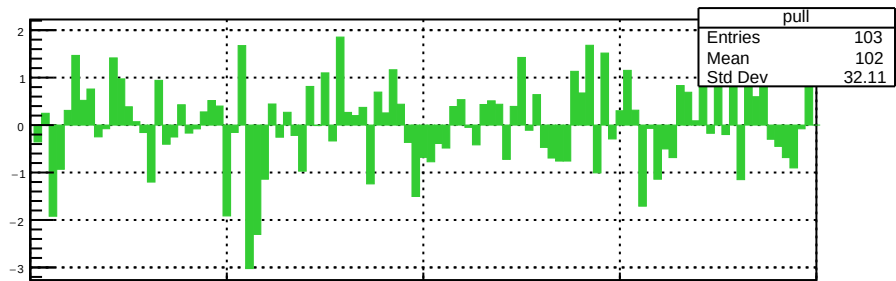
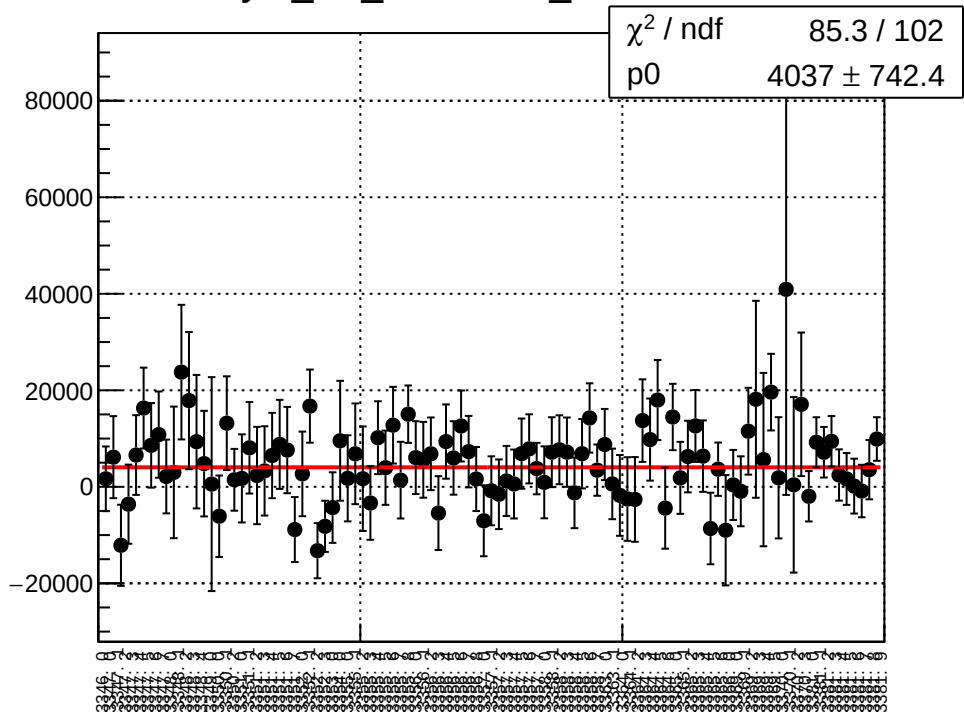
reg_asym_usl_mean vs run



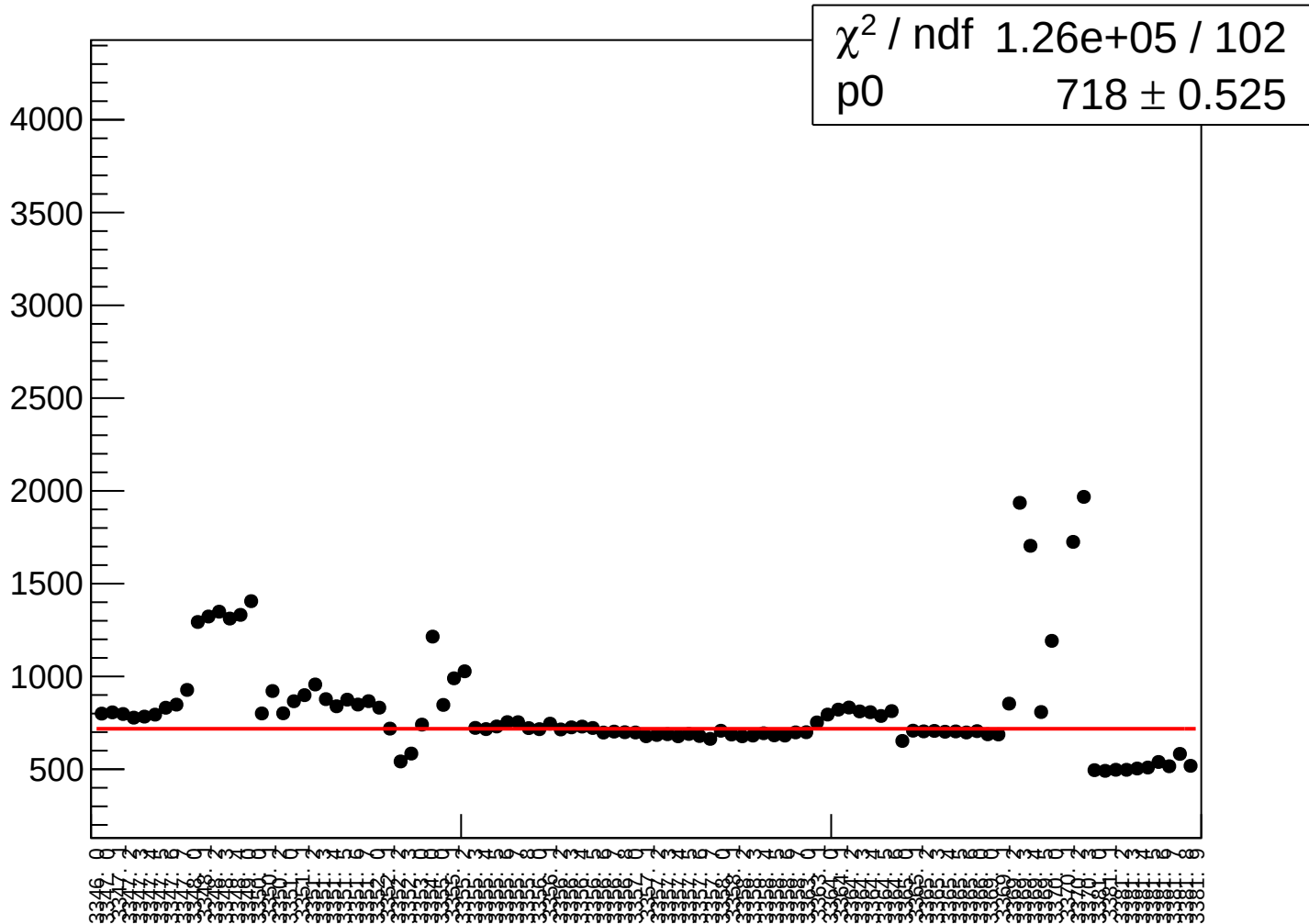
reg_asym_usl_rms vs run



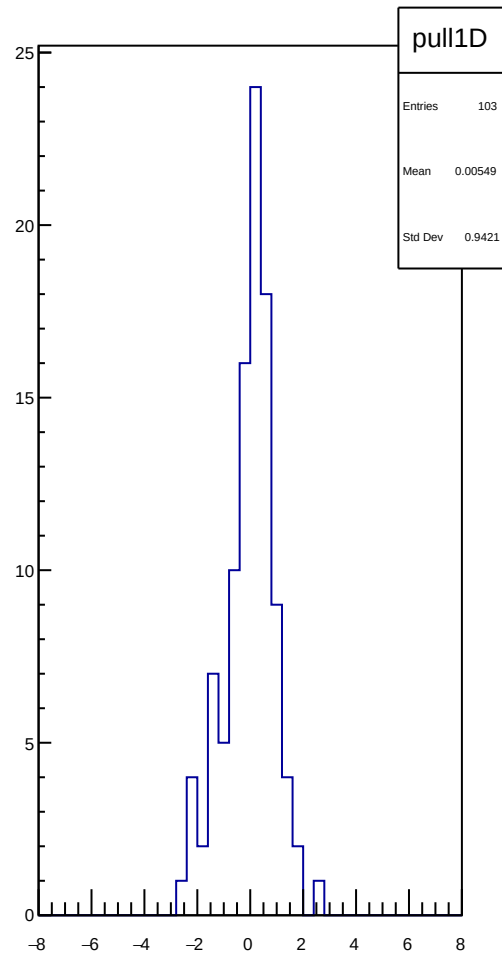
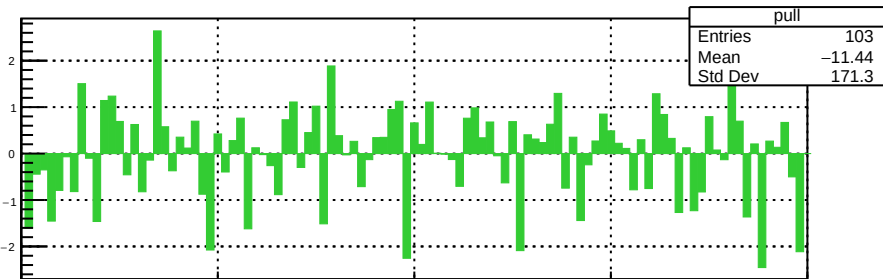
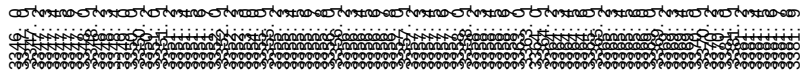
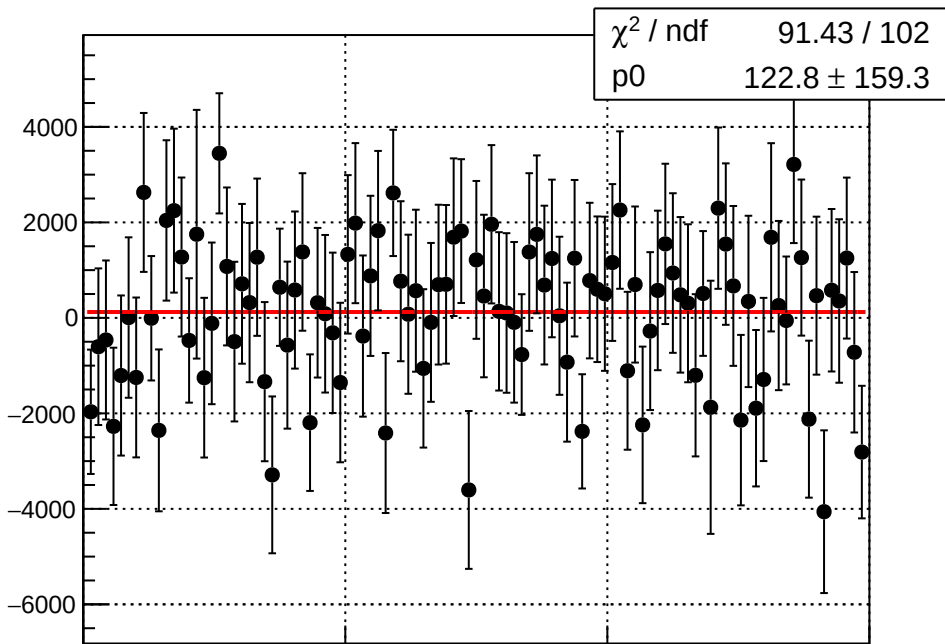
asym_usl_correction_mean vs run



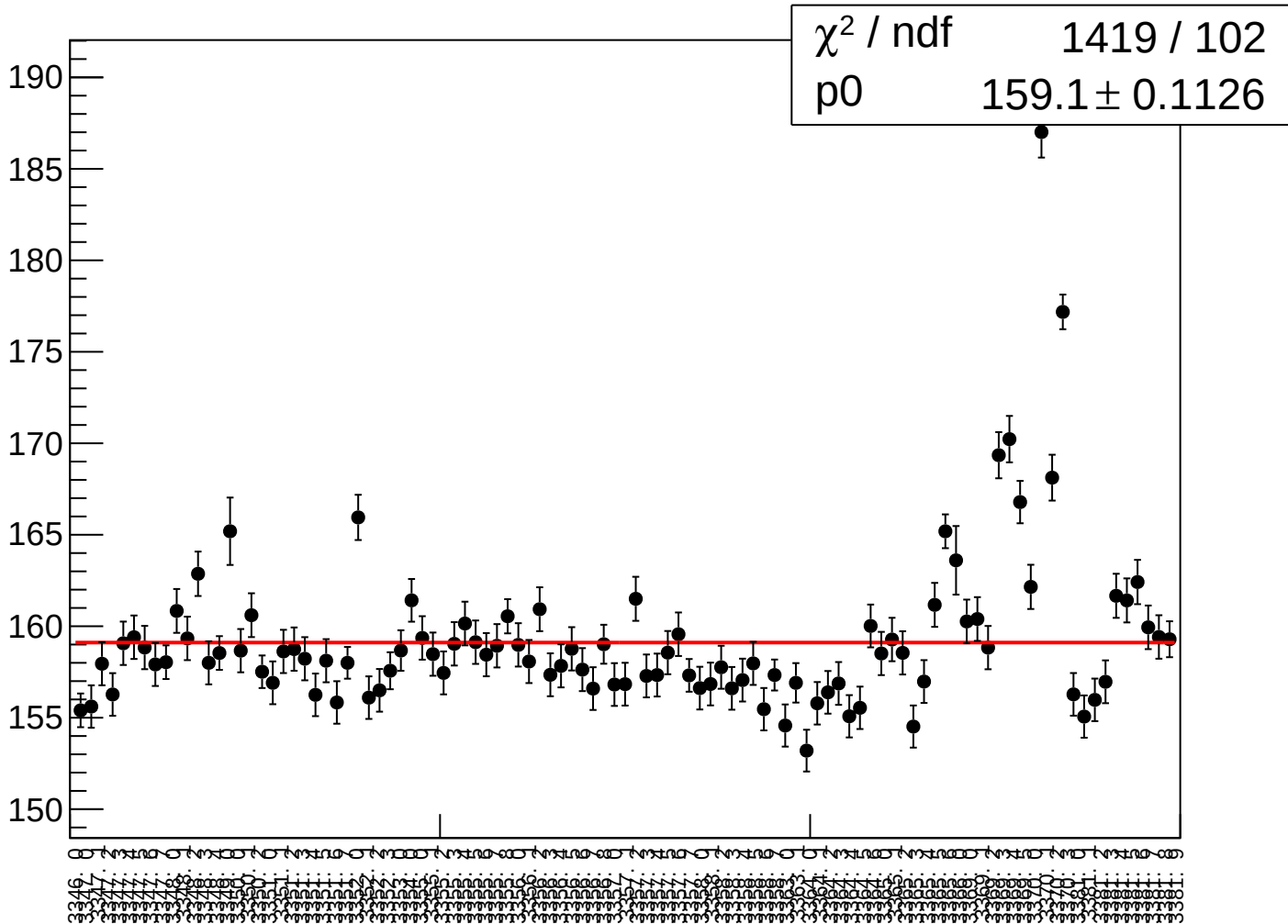
asym_usl_correction_rms vs run



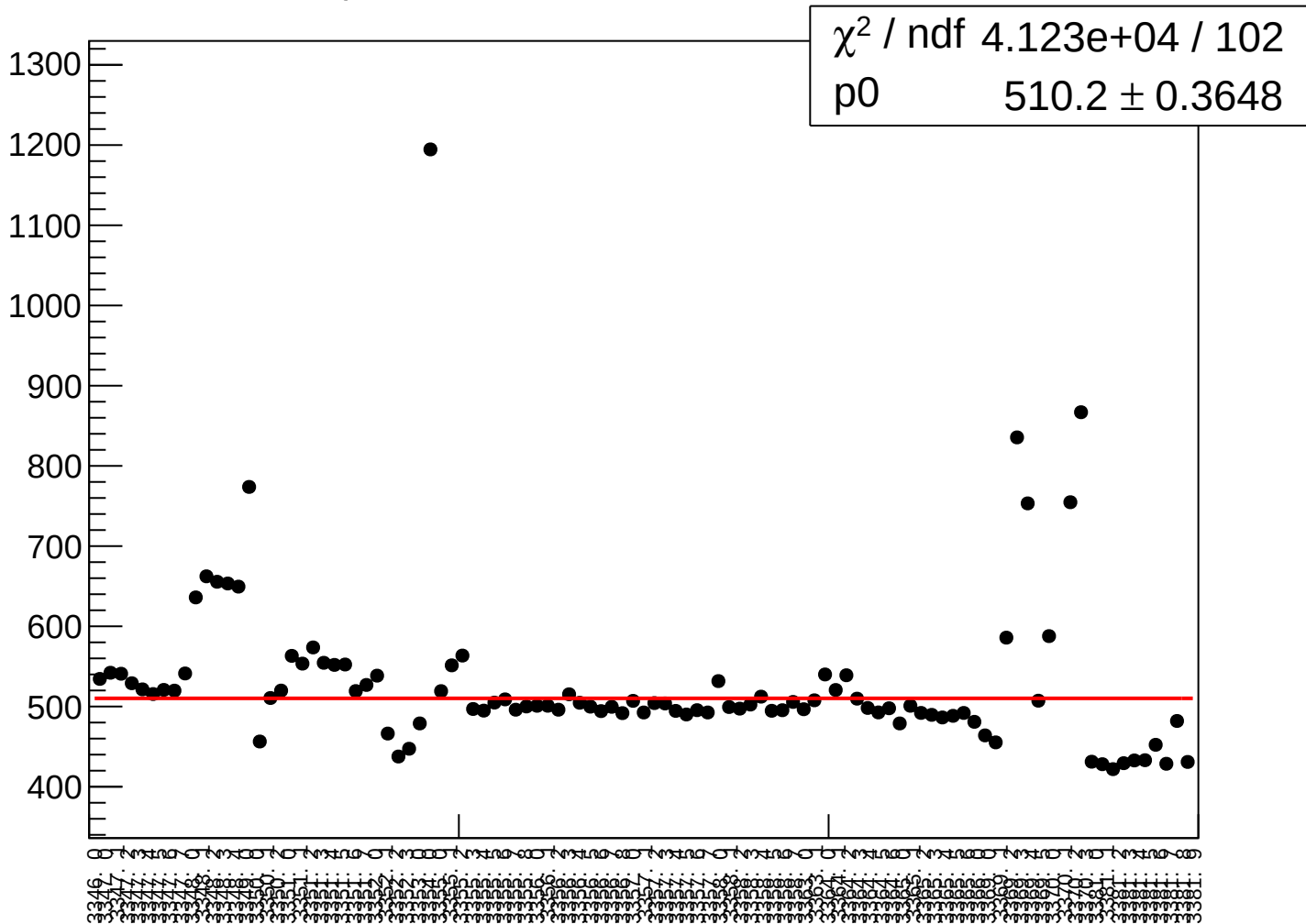
reg_asym_usr_mean vs run



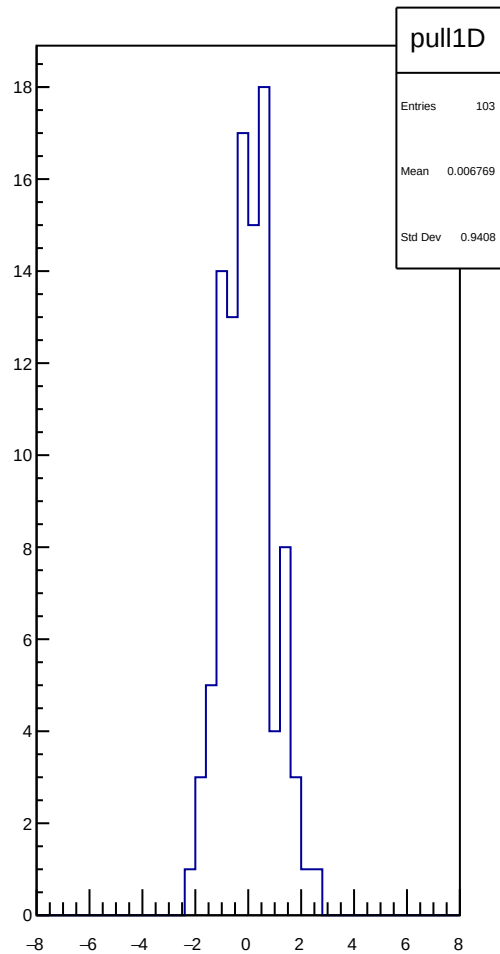
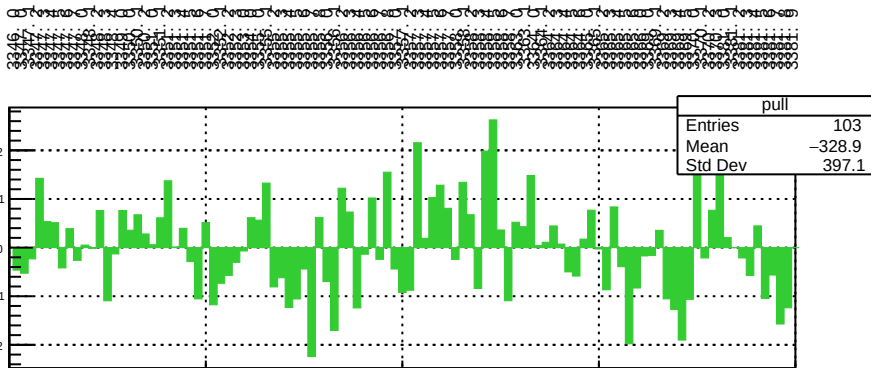
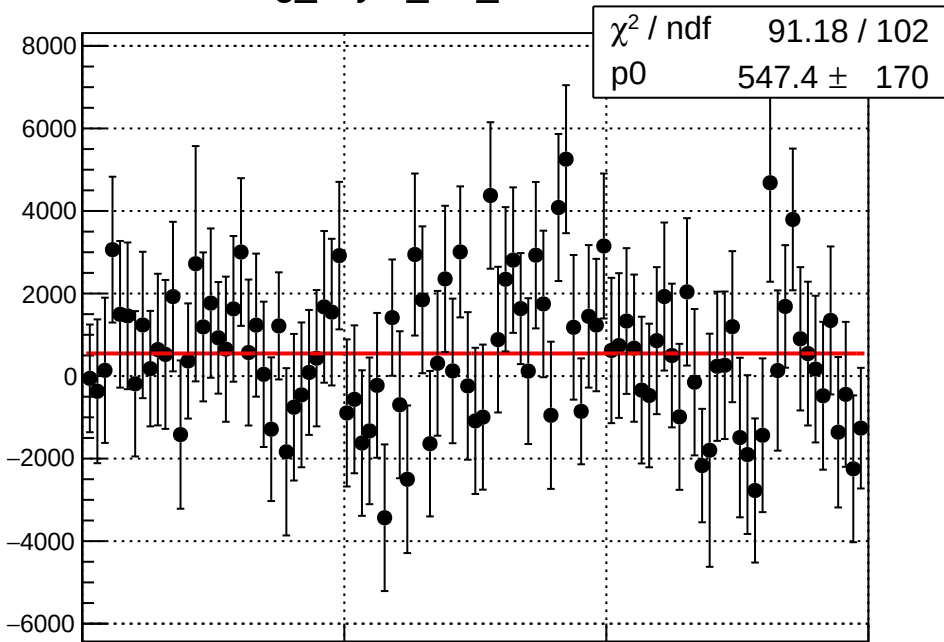
reg_asym_usr_rms vs run



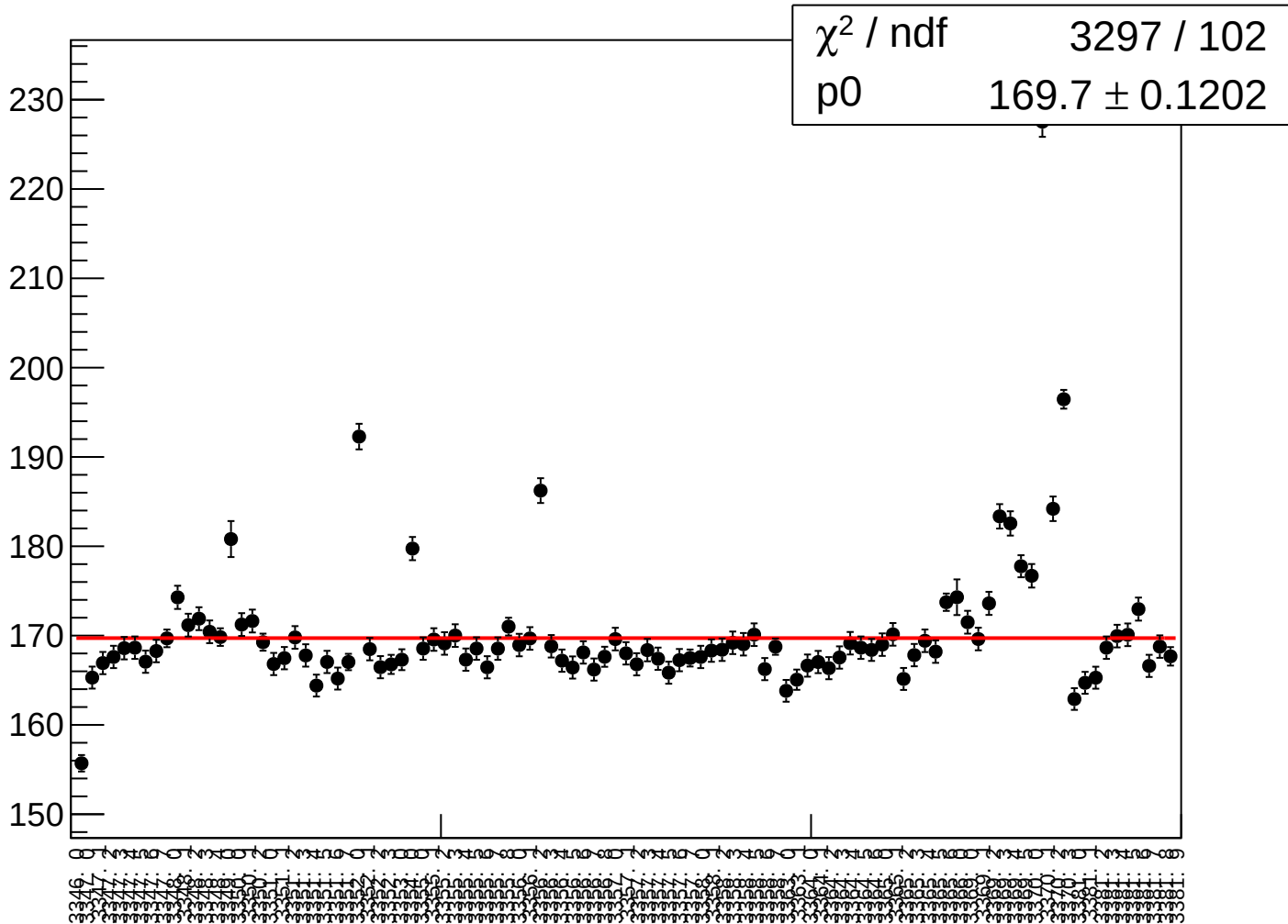
asym_usr_correction_rms vs run



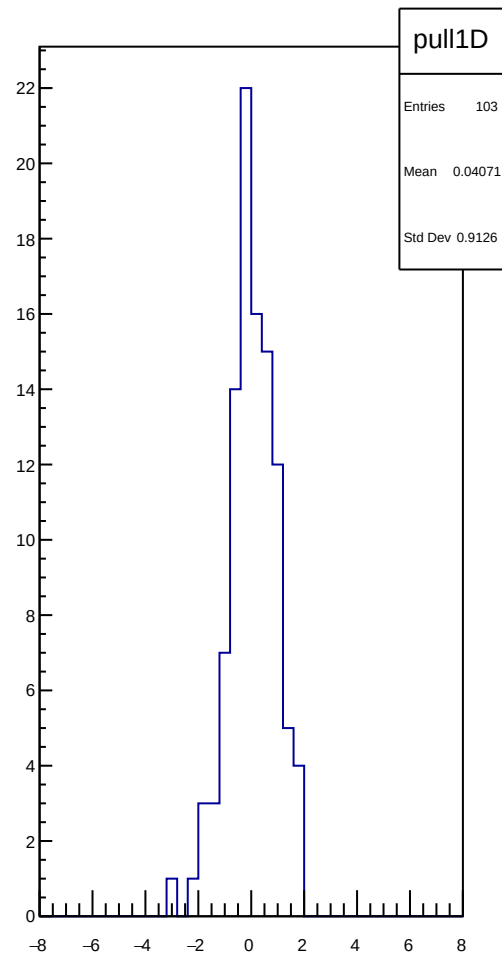
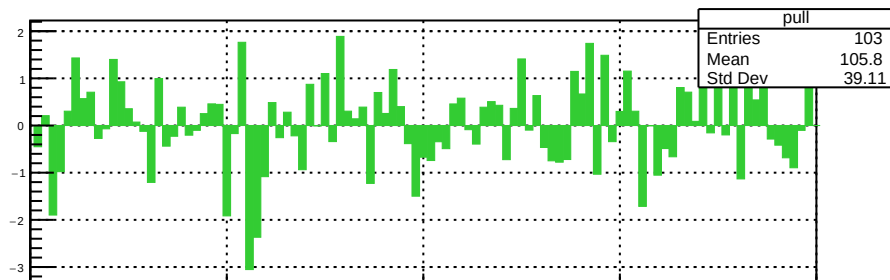
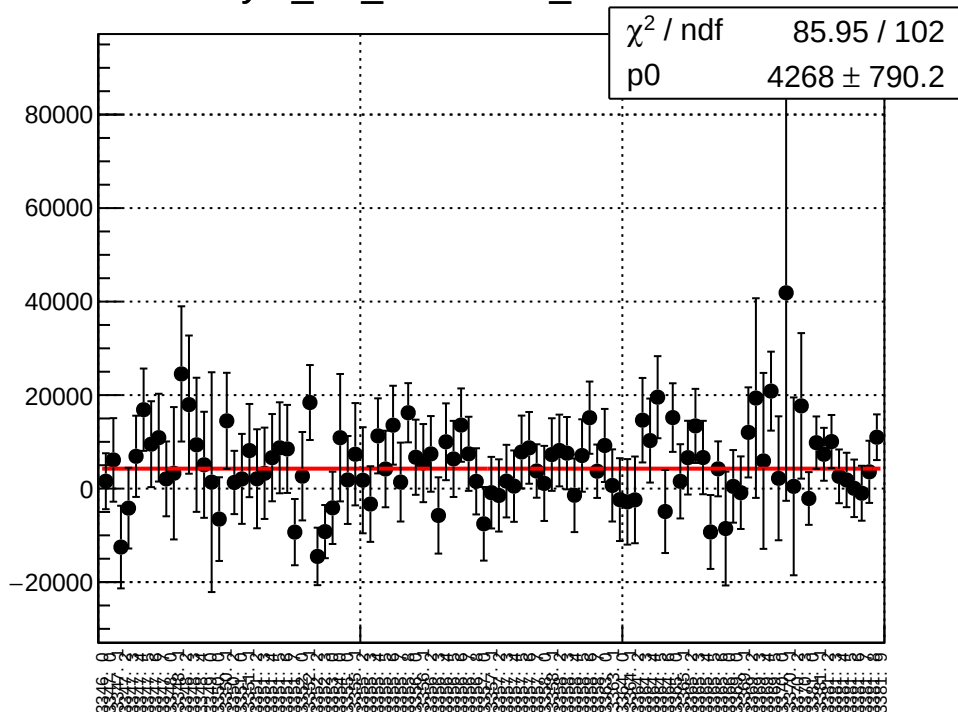
reg_asym_dsl_mean vs run



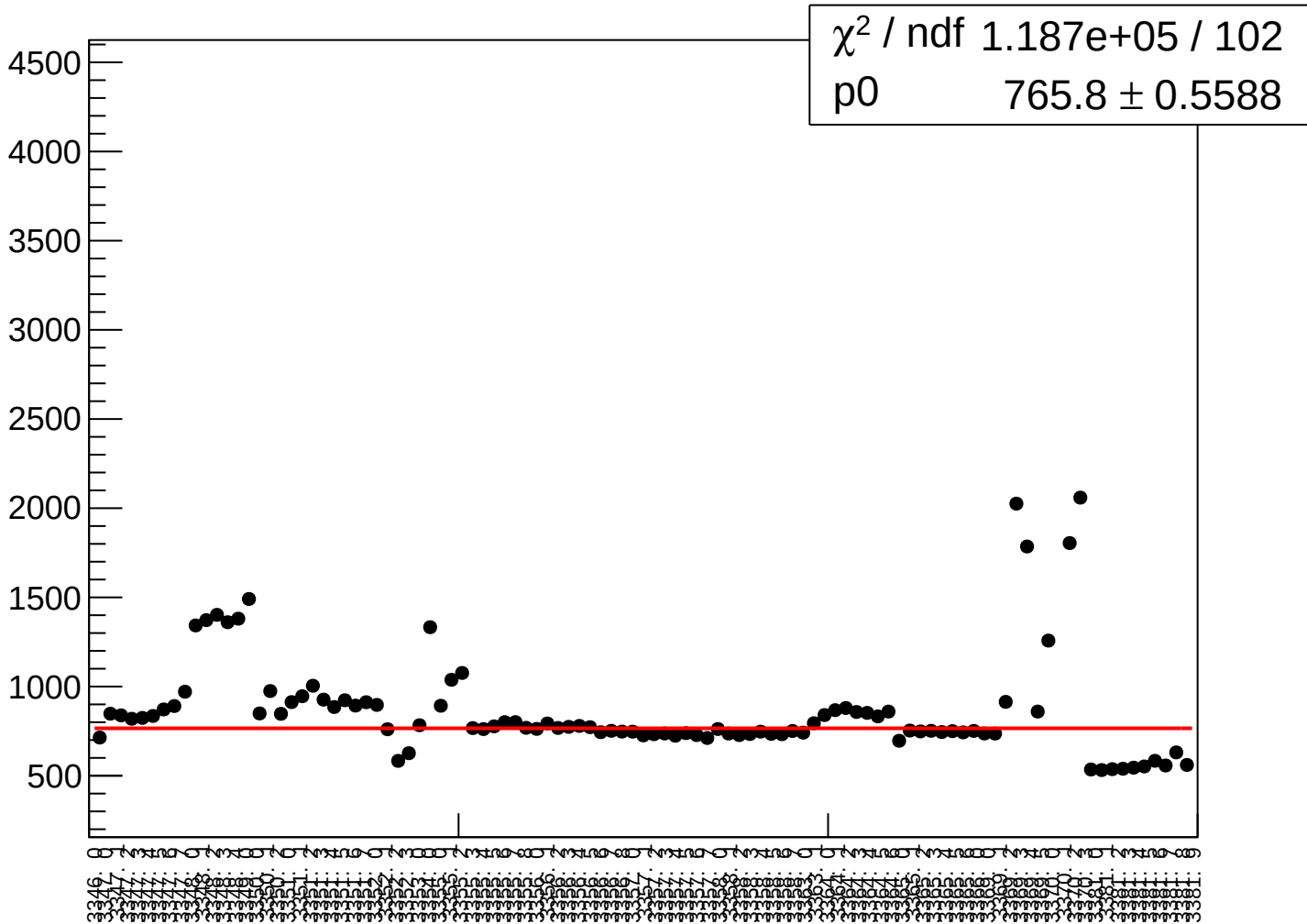
reg_asym_dsl_rms vs run



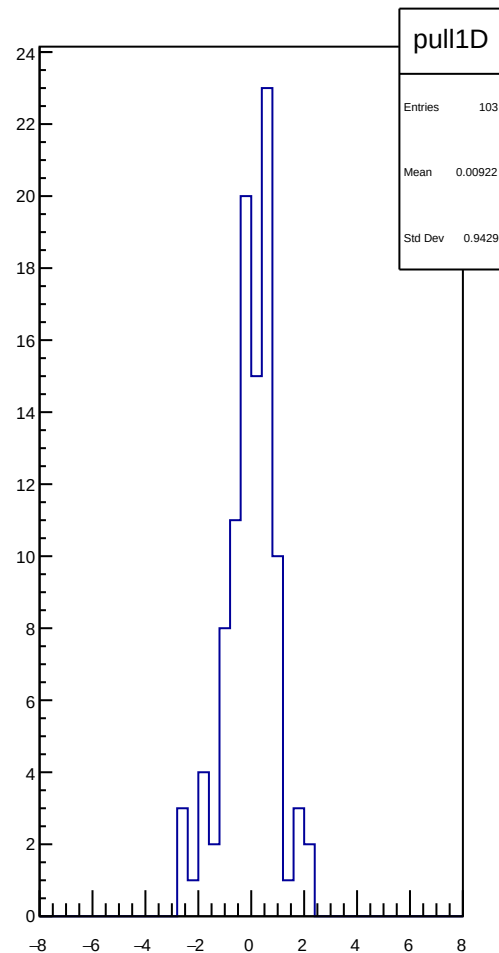
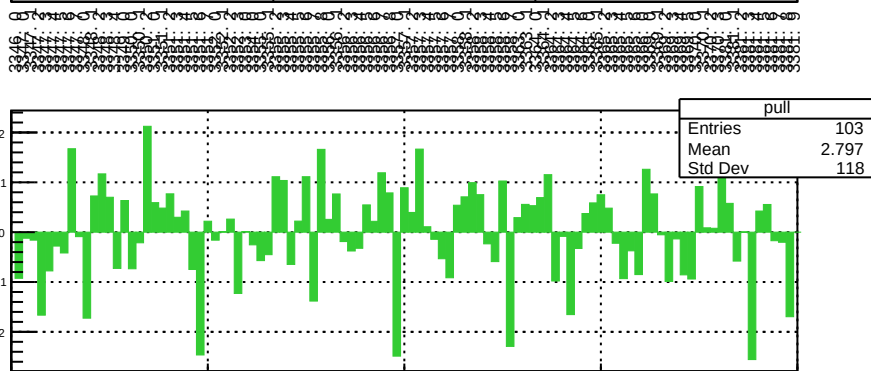
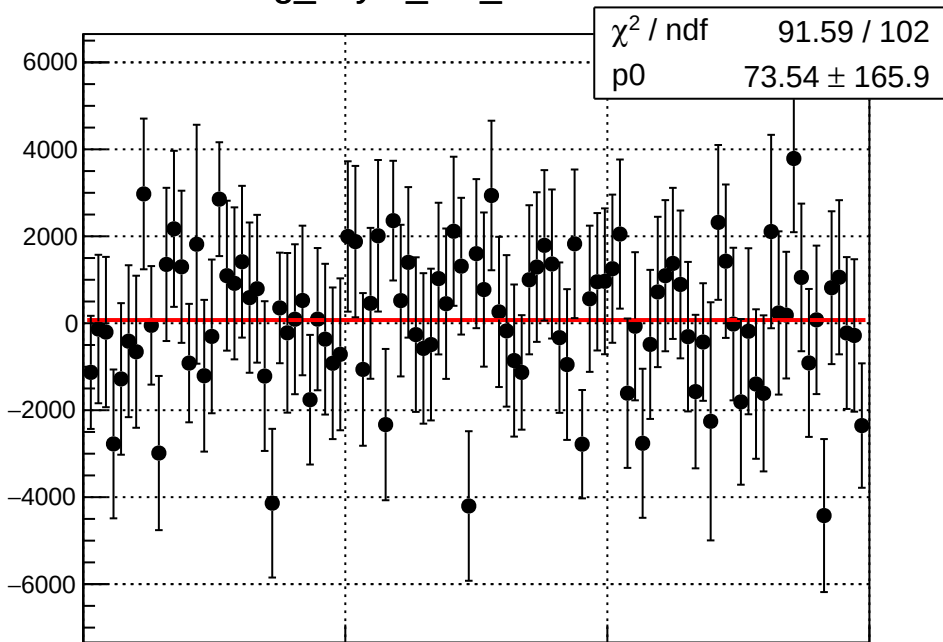
asym_dsl_correction_mean vs run



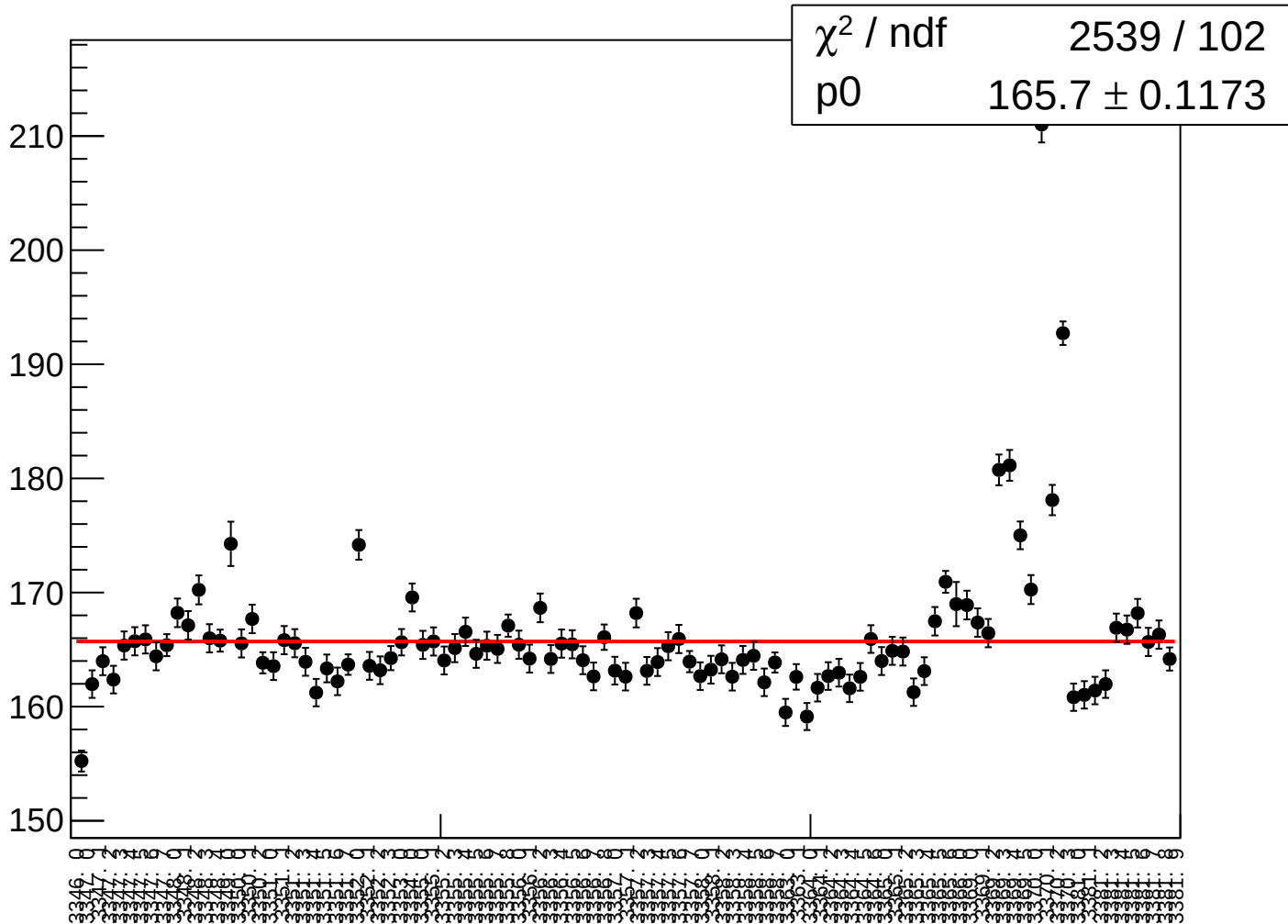
asym_dsl_correction_rms vs run



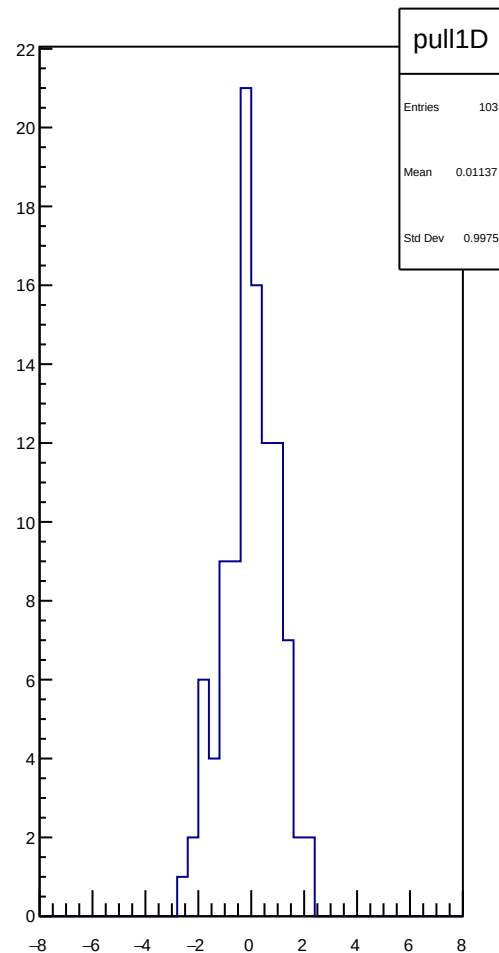
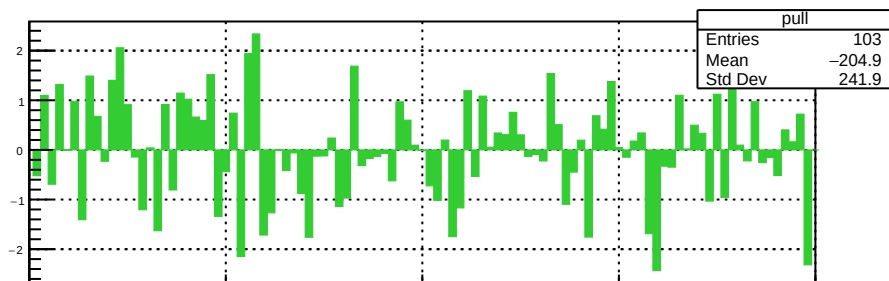
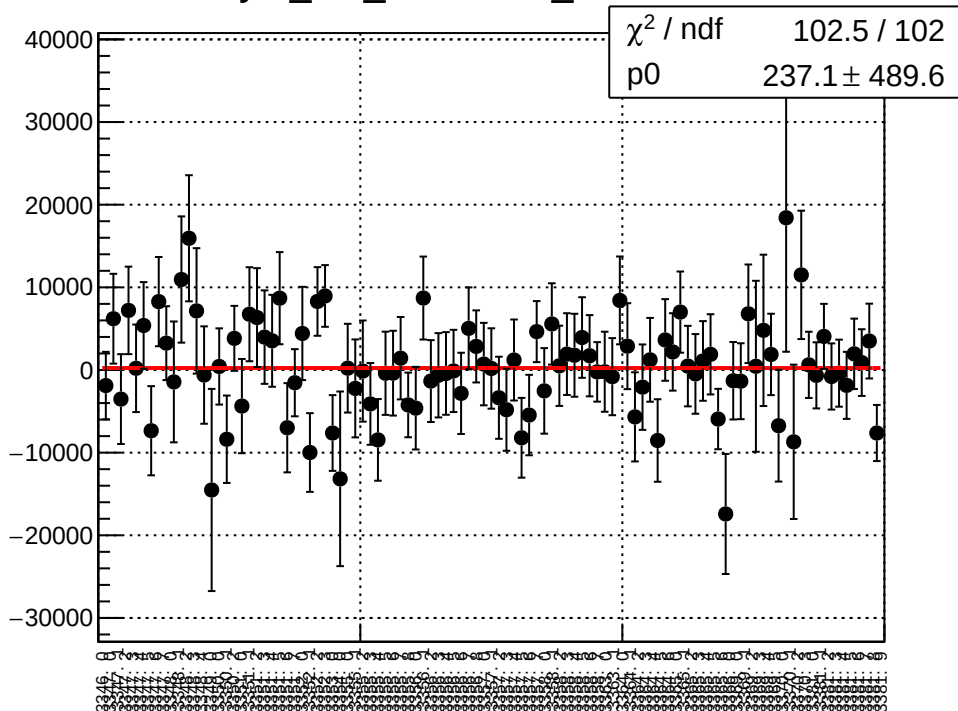
reg_asym_dsr_mean vs run



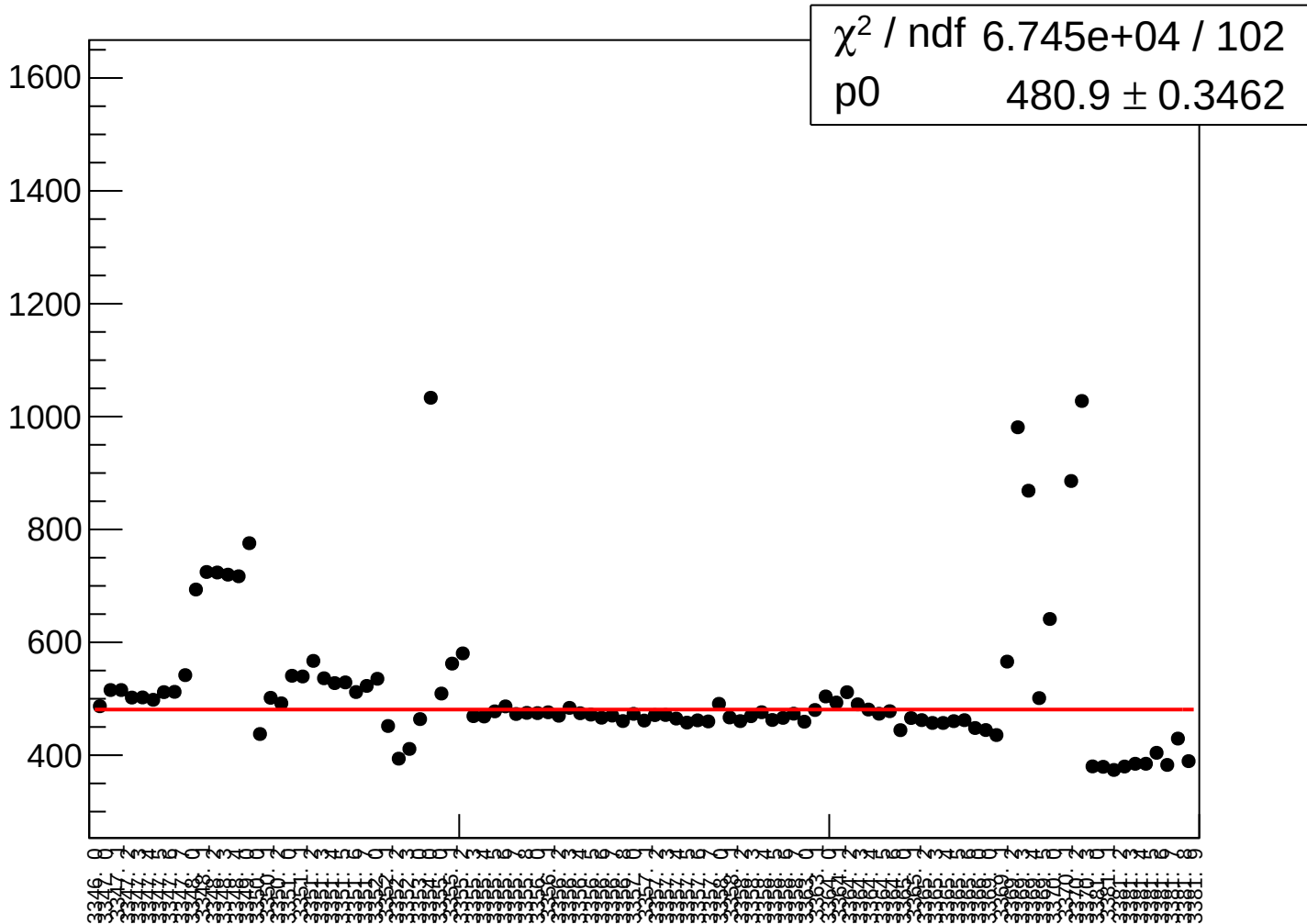
reg_asym_dsr_rms vs run



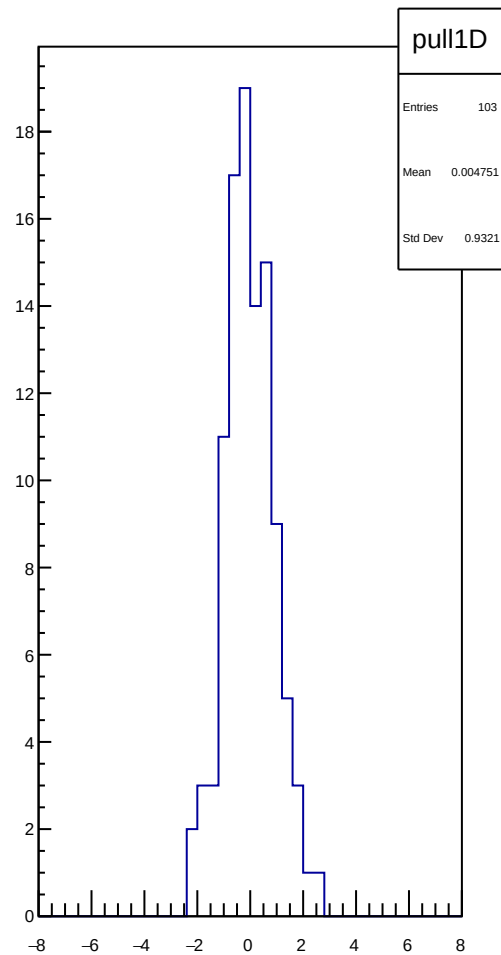
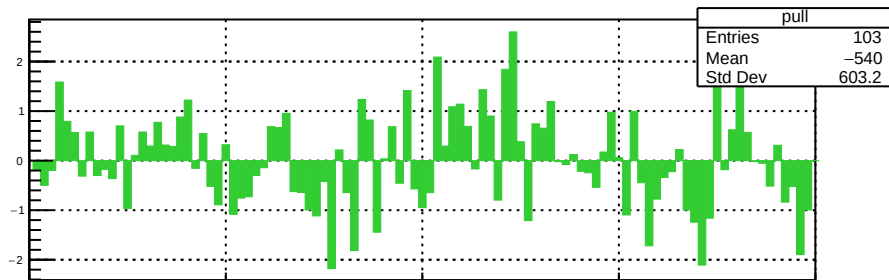
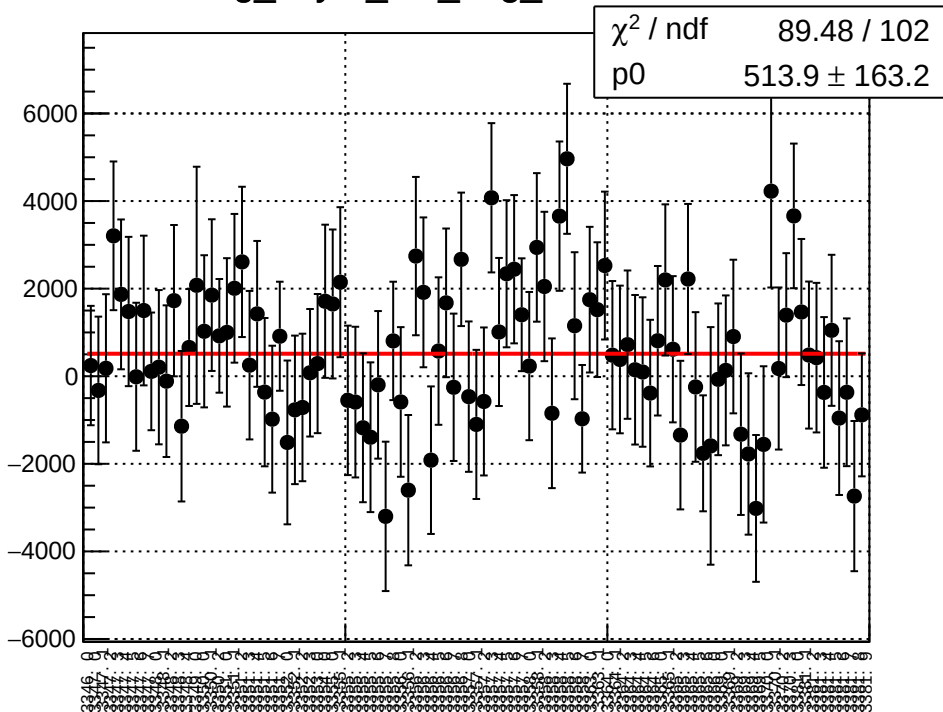
asym_dsr_correction_mean vs run



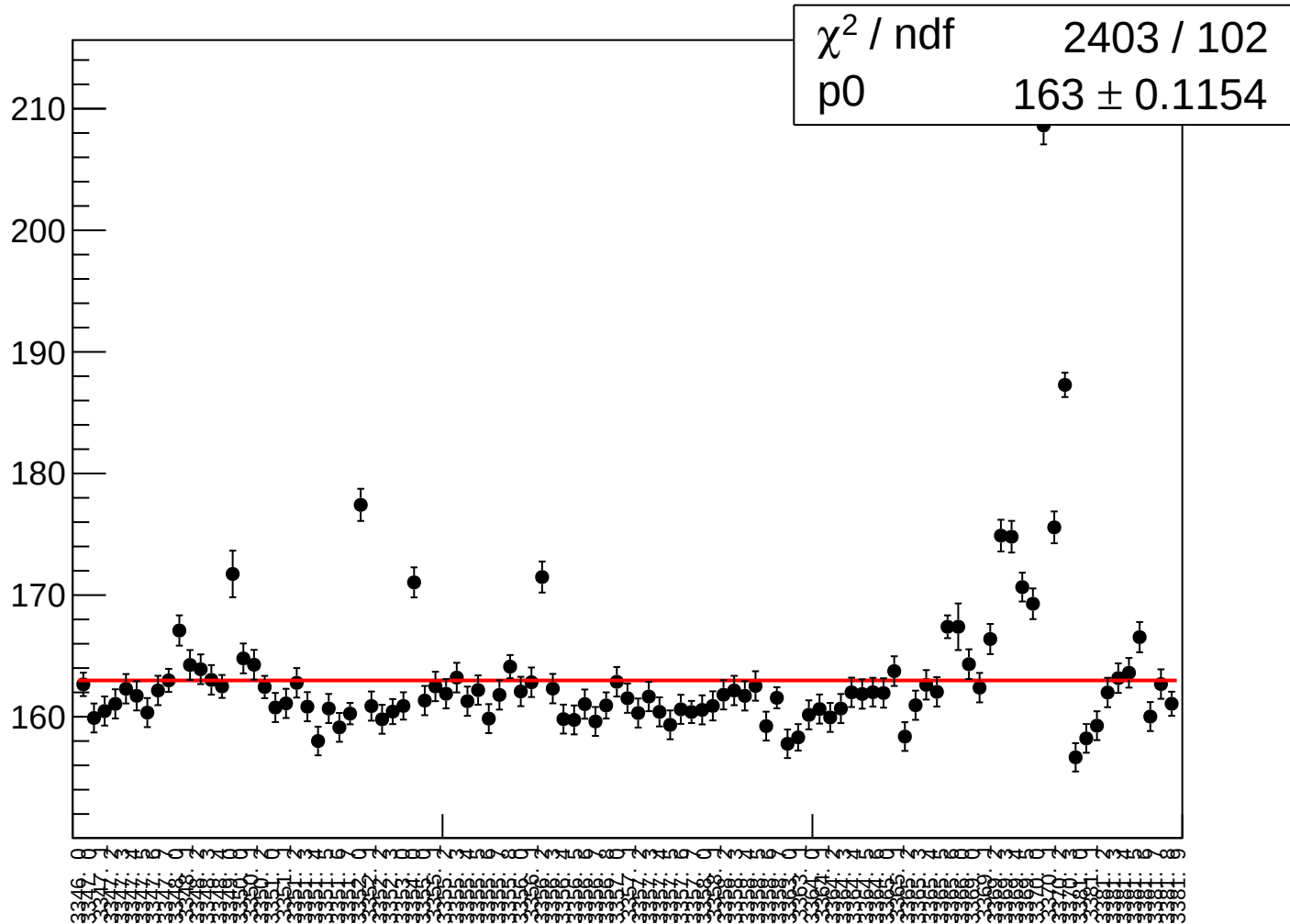
asym_dsr_correction_rms vs run



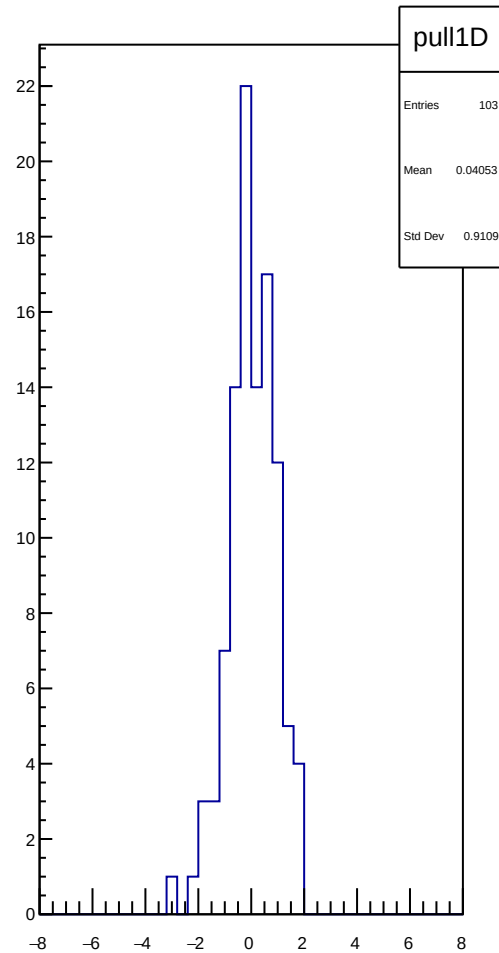
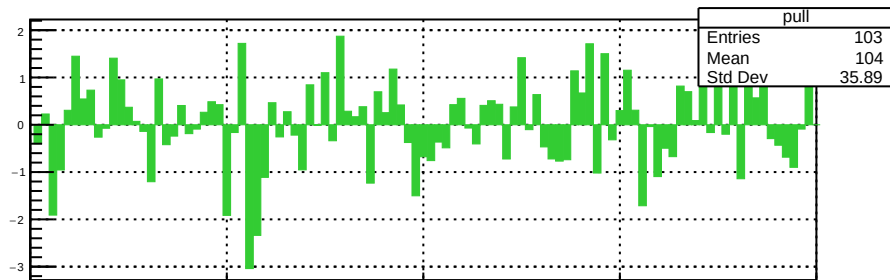
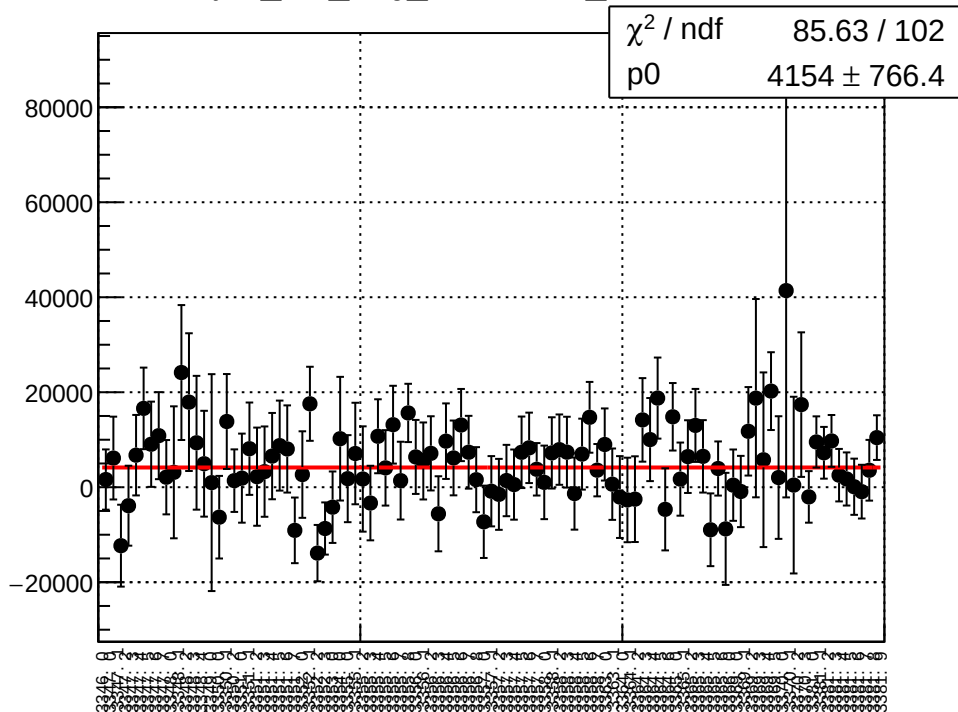
reg_asym_left_avg_mean vs run



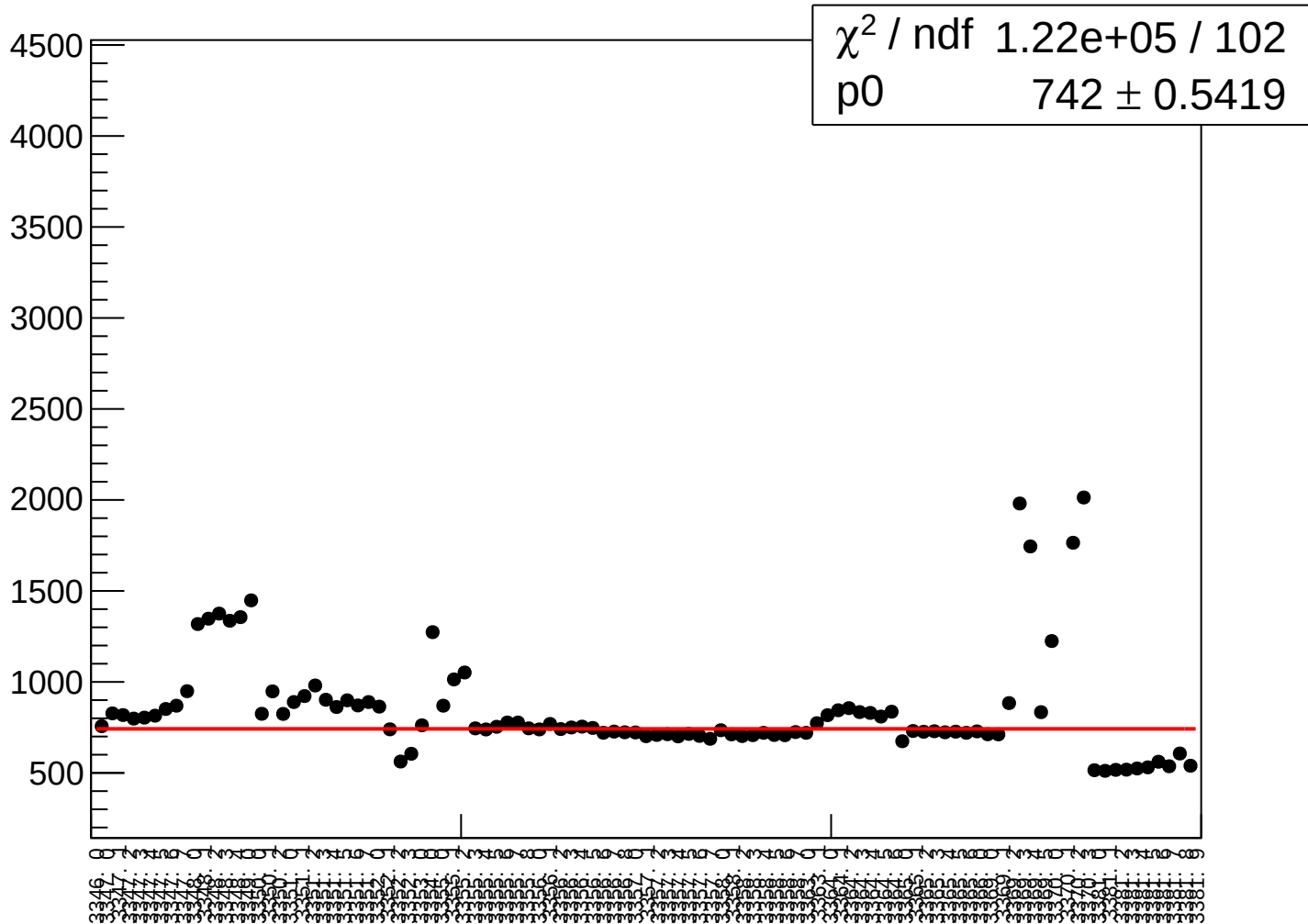
reg_asym_left_avg_rms vs run



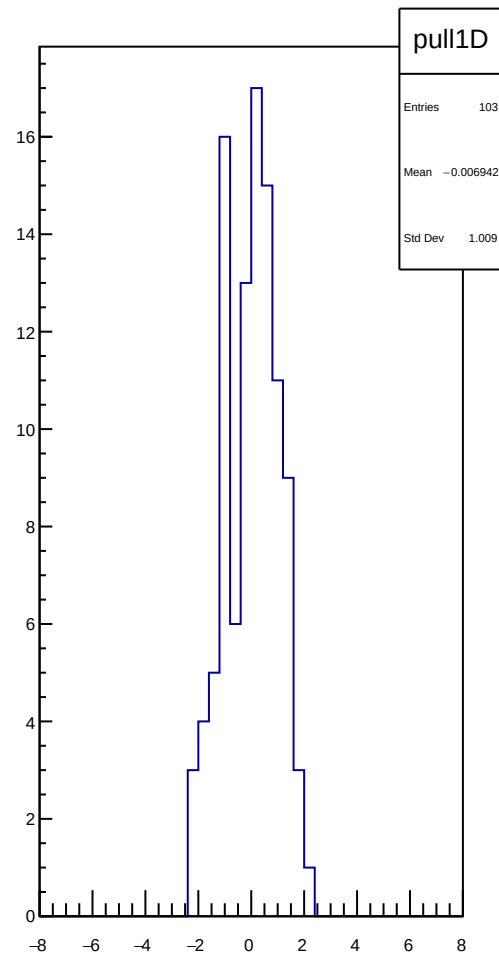
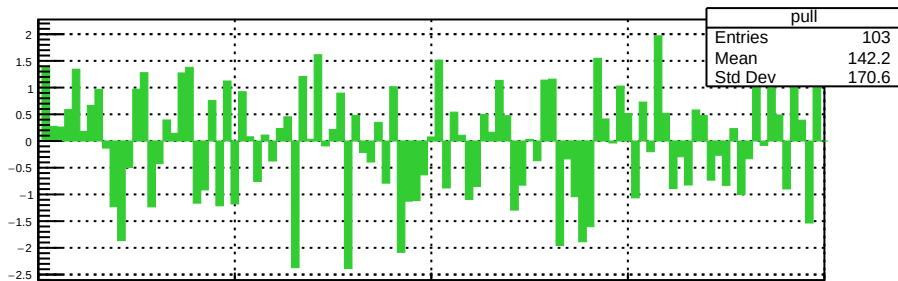
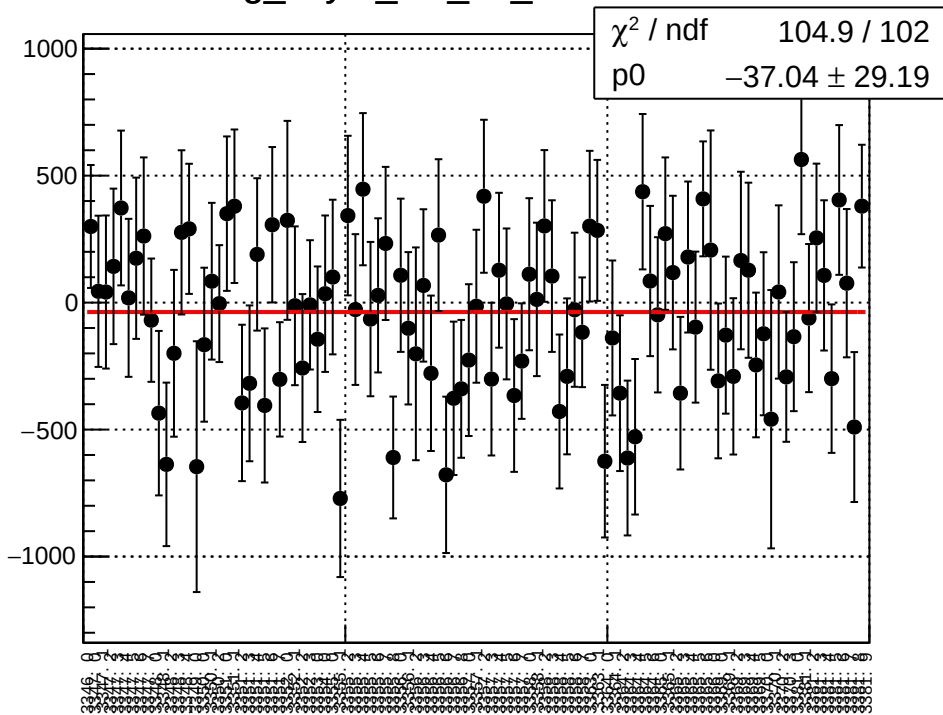
asym_left_avg_correction_mean vs run



asym_left_avg_correction_rms vs run



reg_asym_left_dd_mean vs run



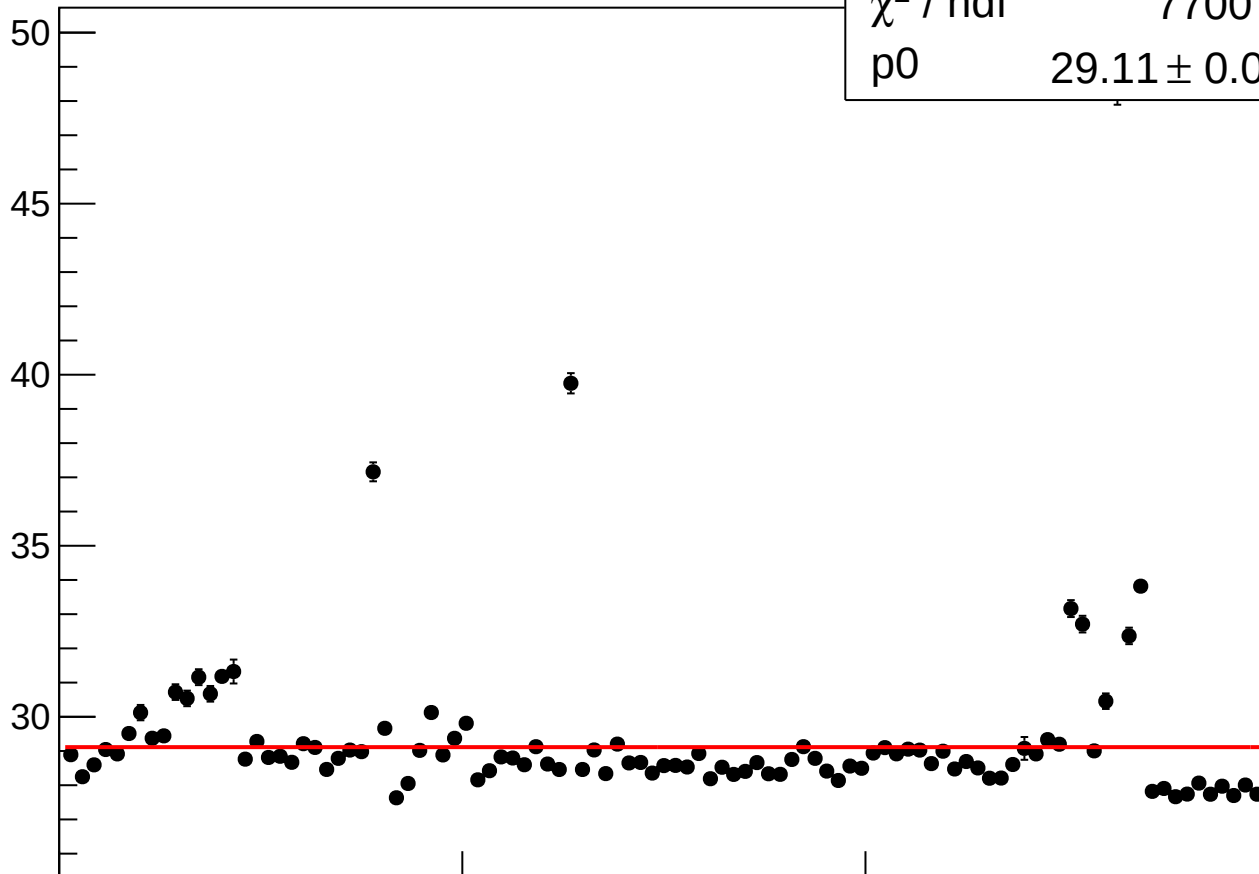
reg_asym_left_dd_rms vs run

χ^2 / ndf

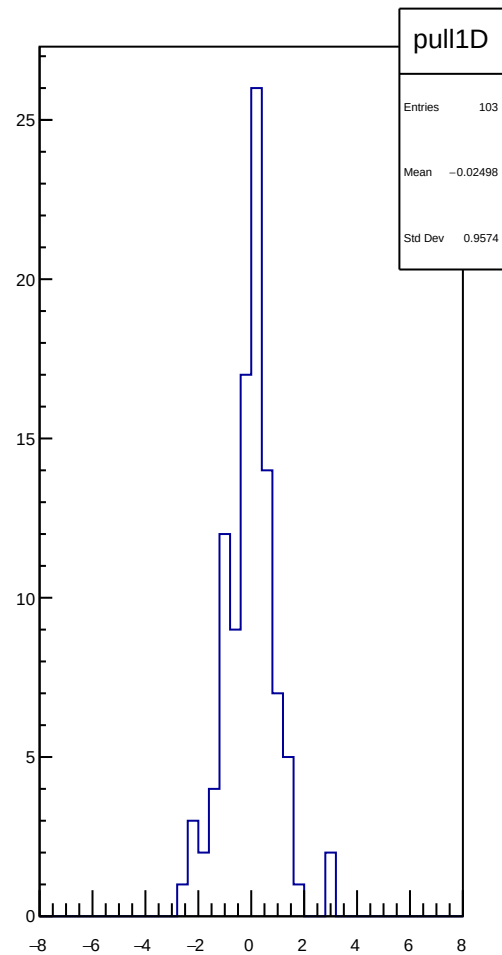
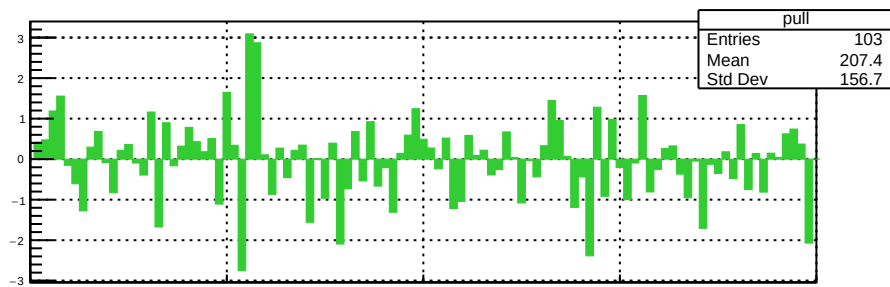
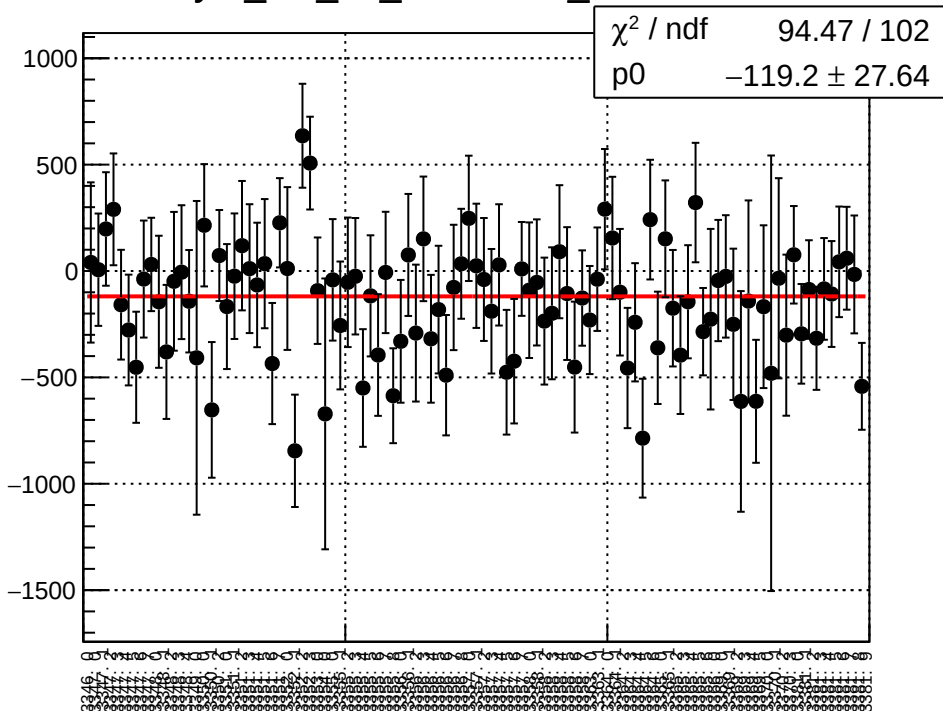
7700 / 102

p0

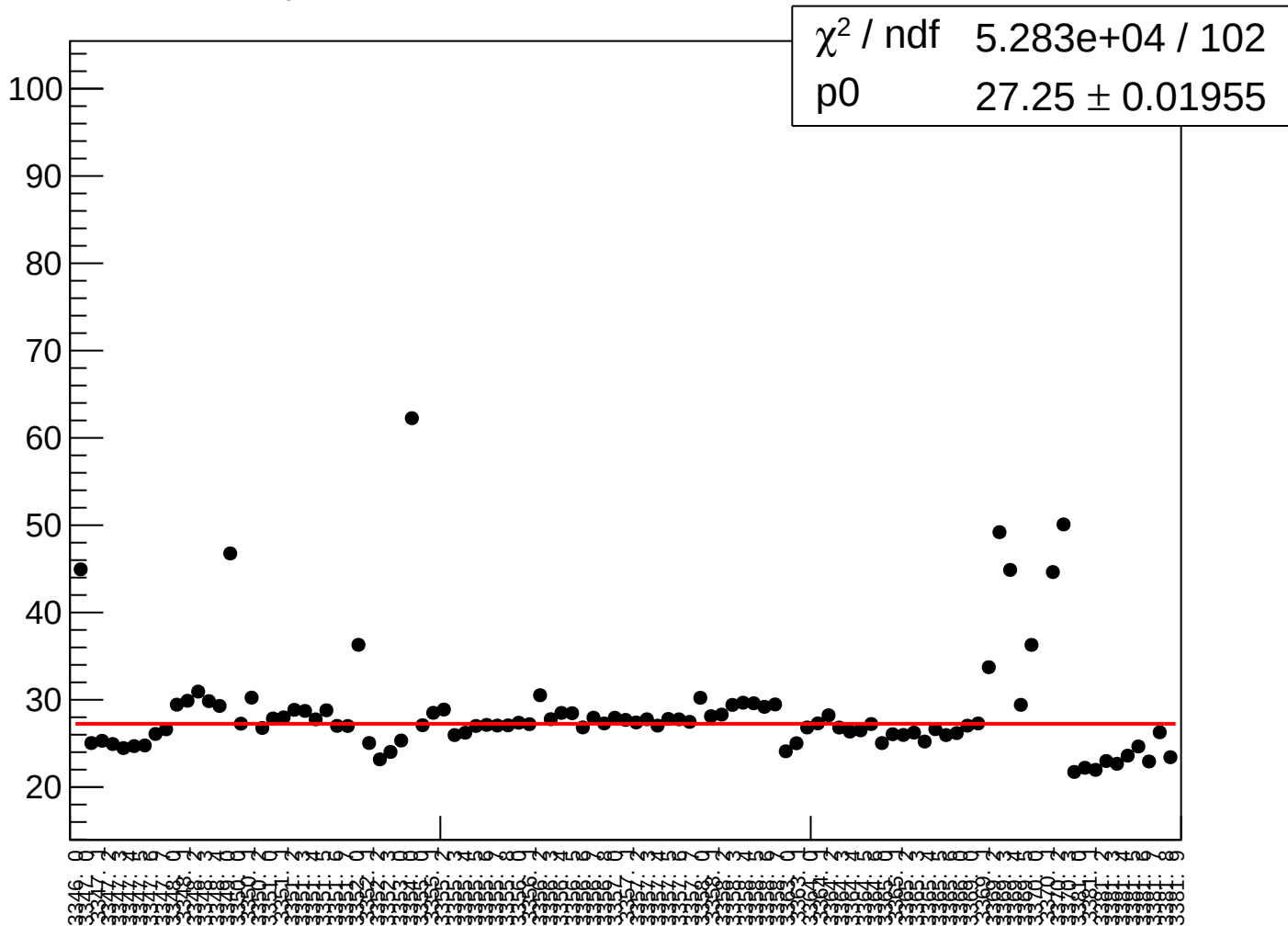
29.11 ± 0.02064



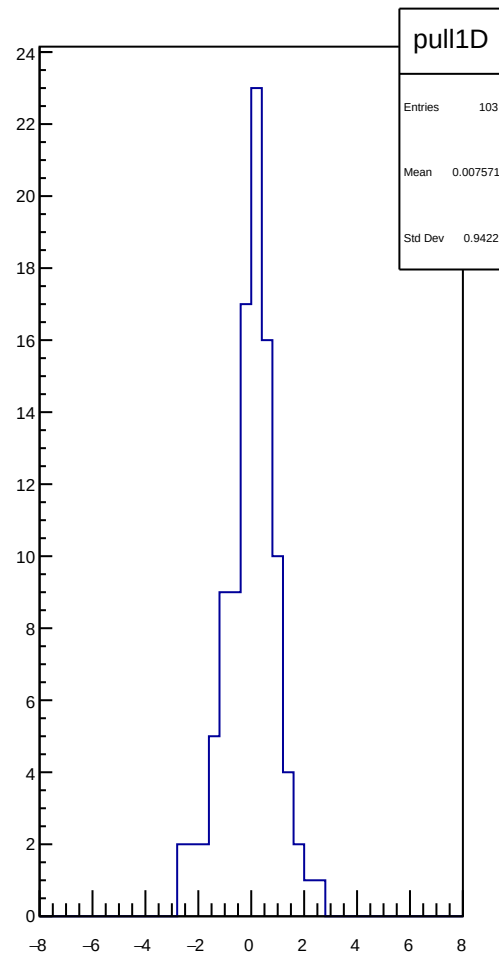
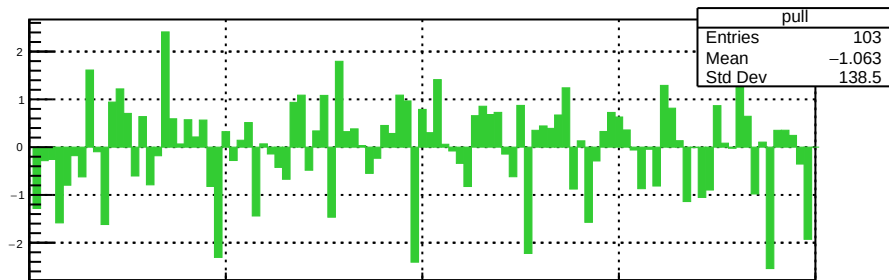
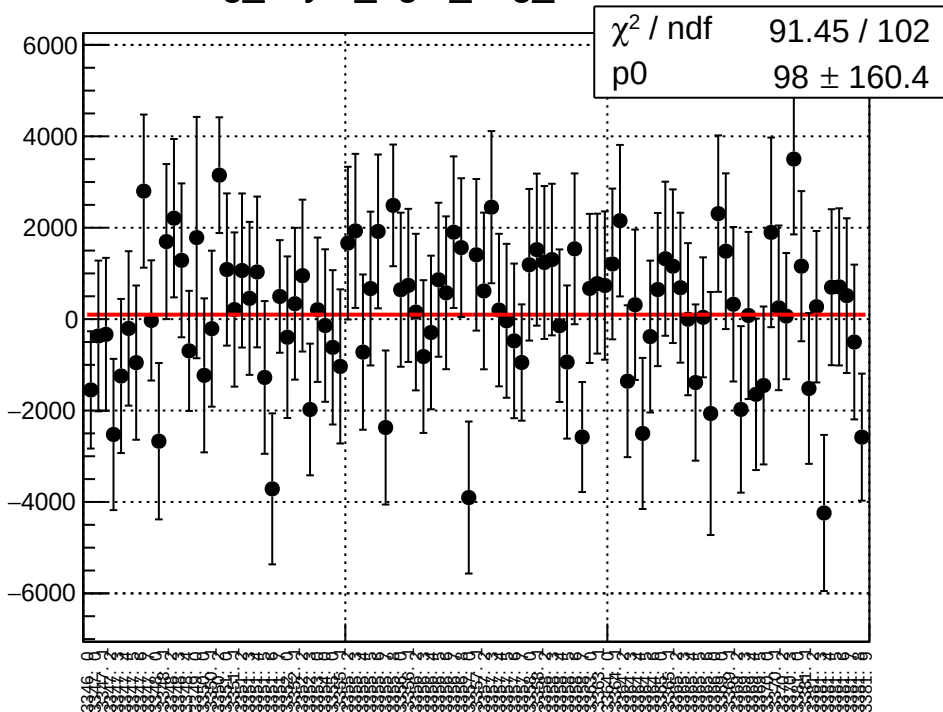
asym_left_dd_correction_mean vs run



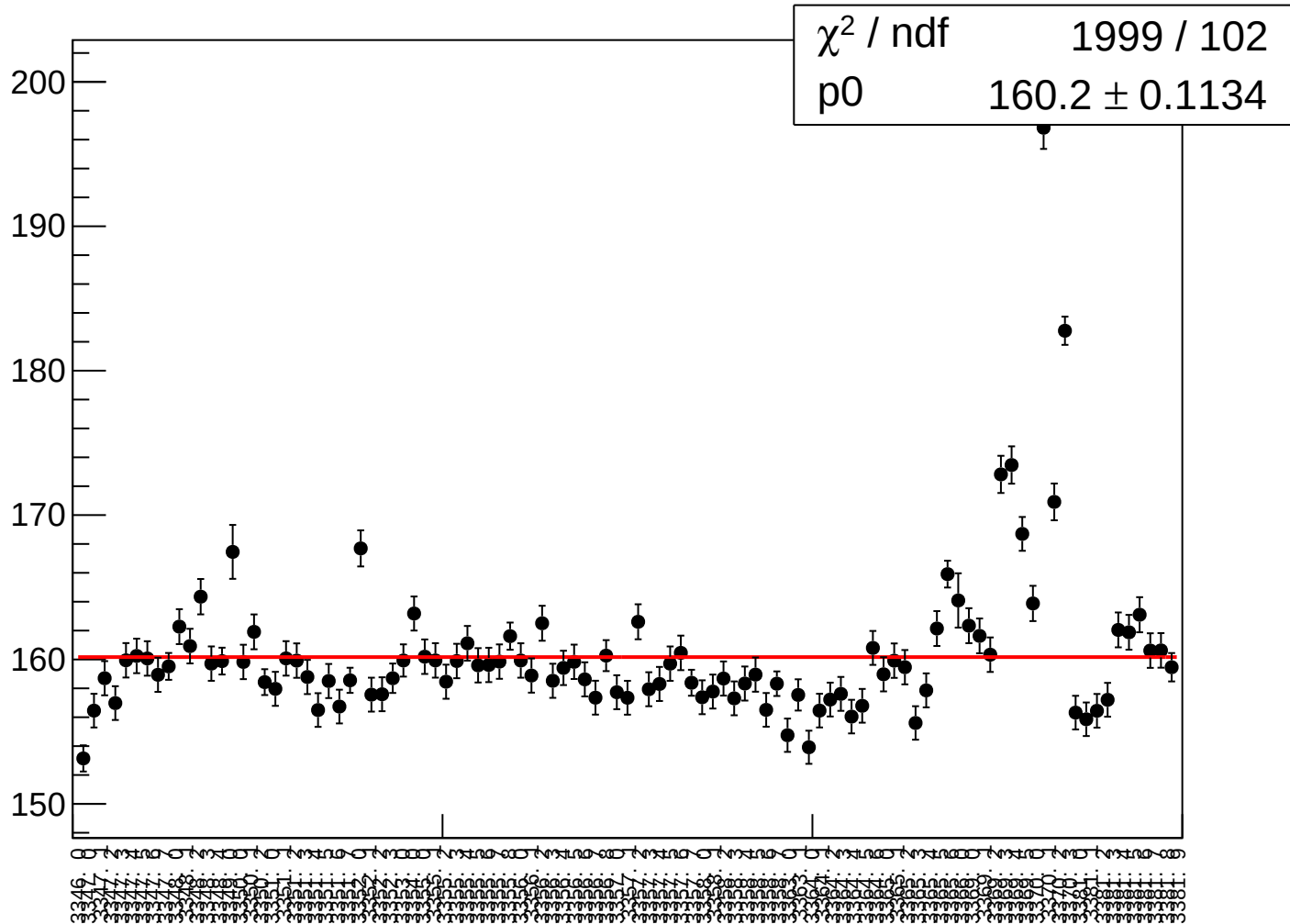
asym_left_dd_correction_rms vs run



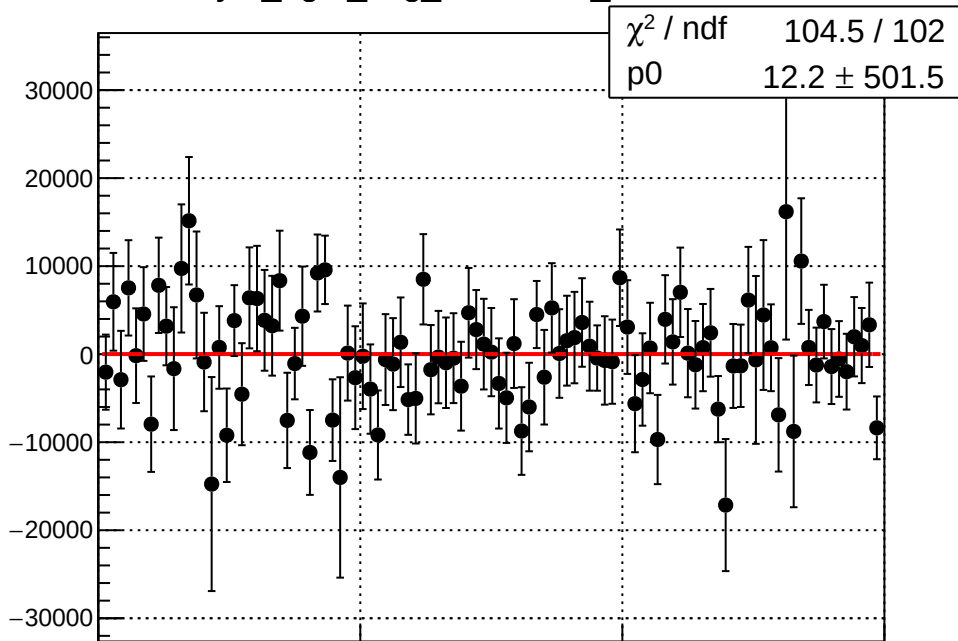
reg_asym_right_avg_mean vs run

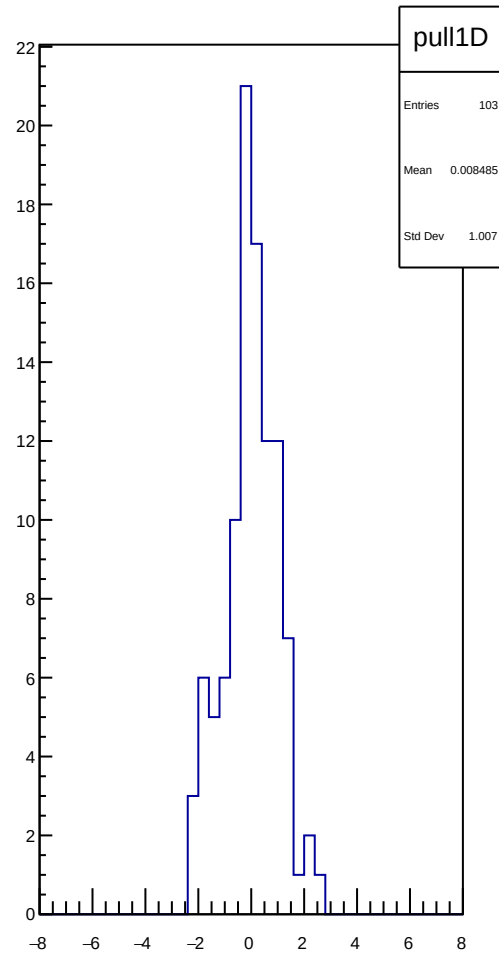
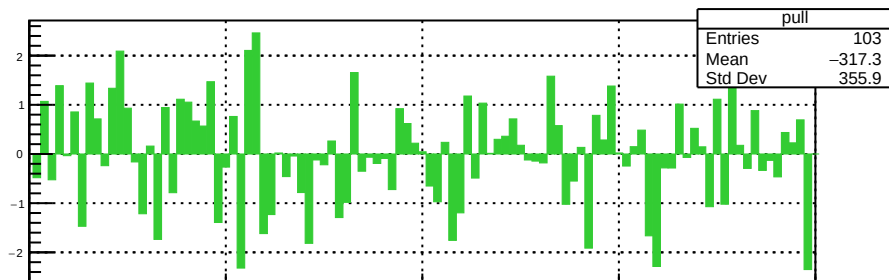


reg_asym_right_avg_rms vs run

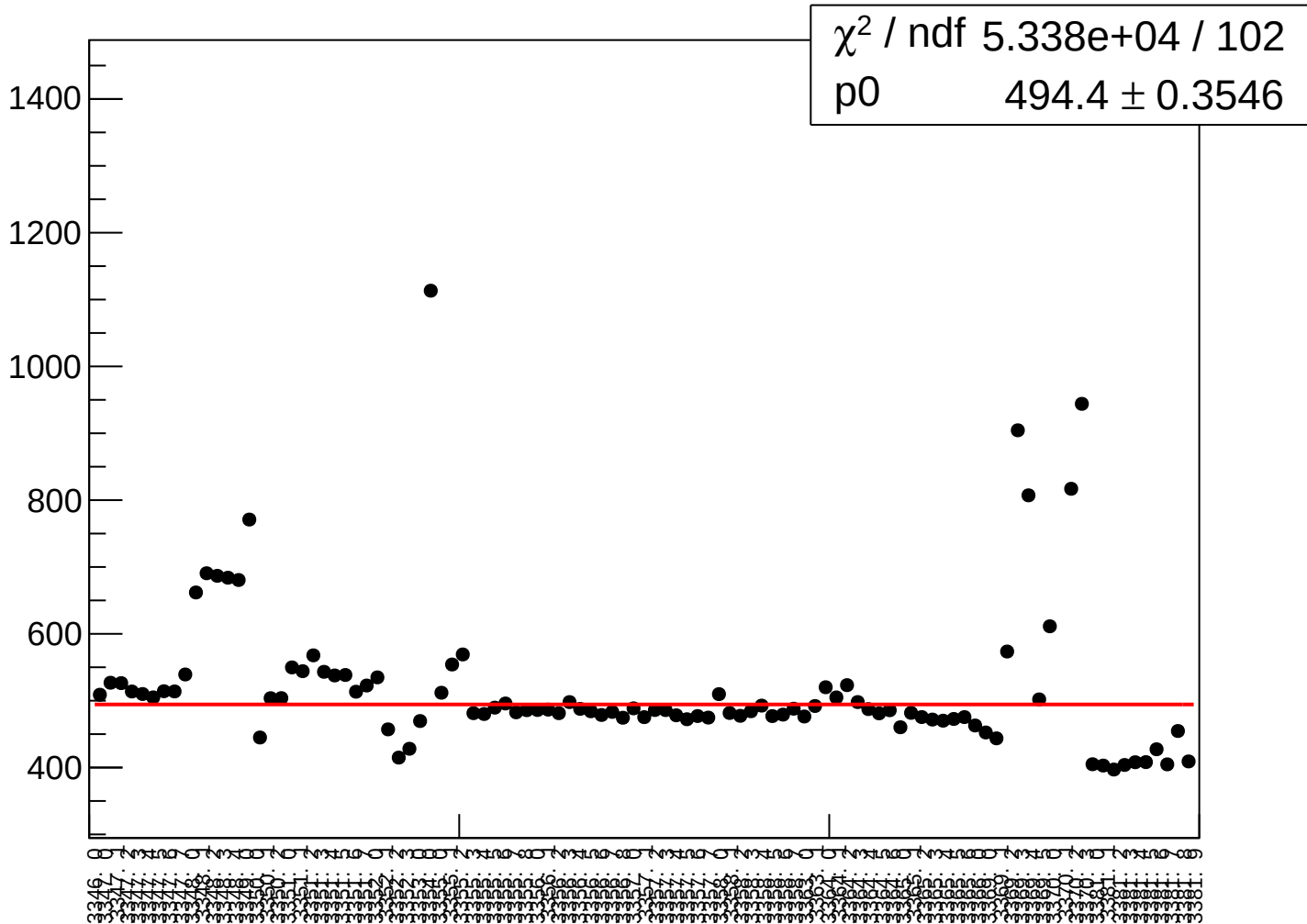


asym_right_avg_correction_mean vs run

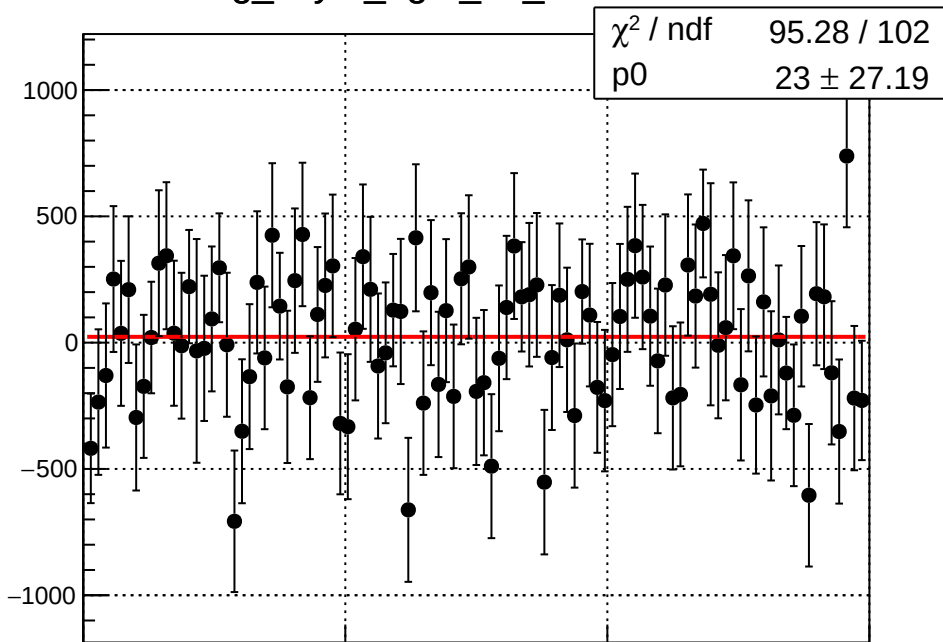




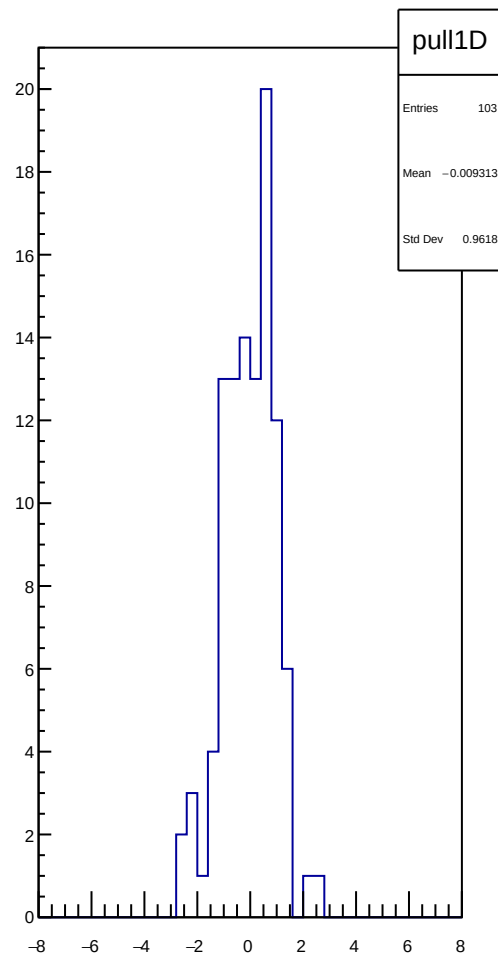
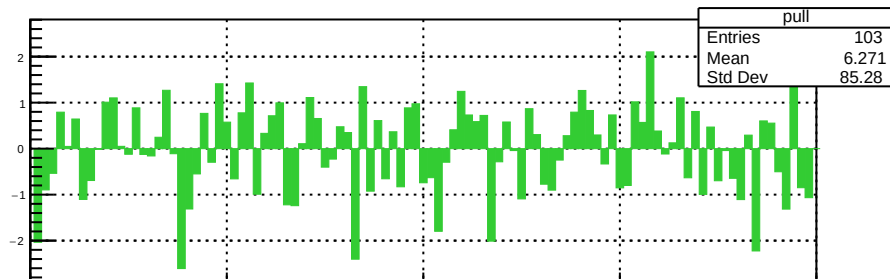
asym_right_avg_correction_rms vs run



reg_asym_right_dd_mean vs run



Correlation Coefficient: 0.009313



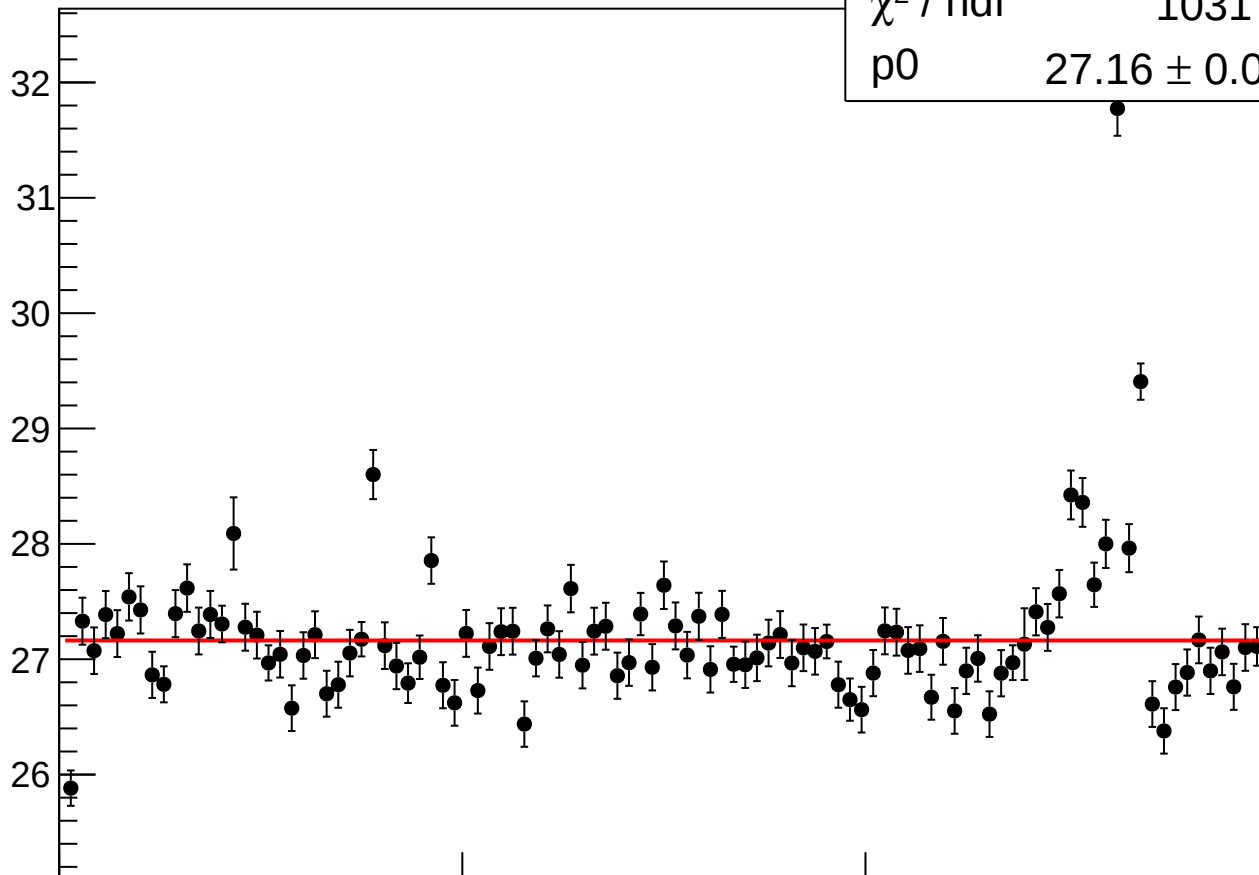
reg_asym_right_dd_rms vs run

χ^2 / ndf

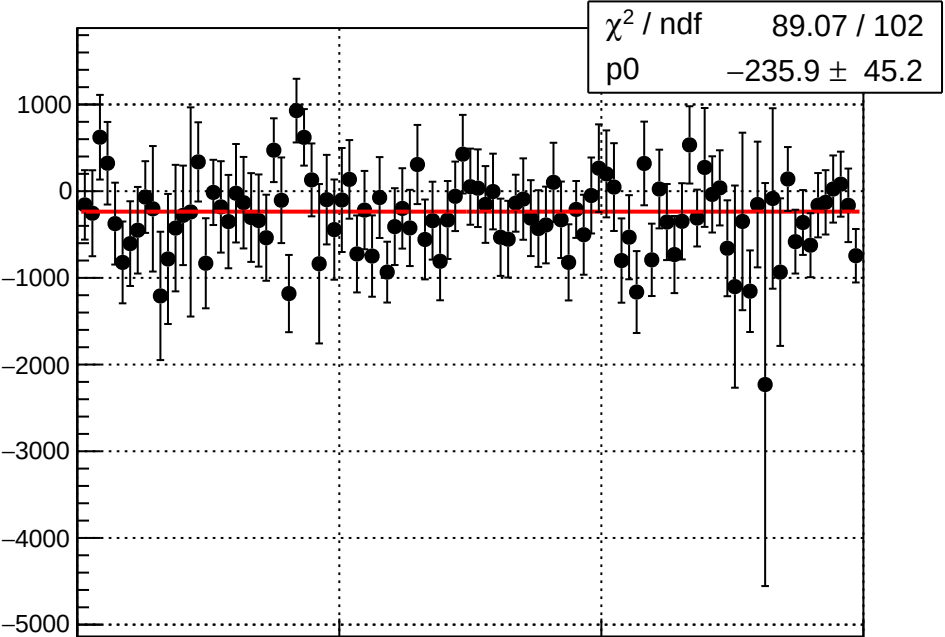
1031 / 102

p0

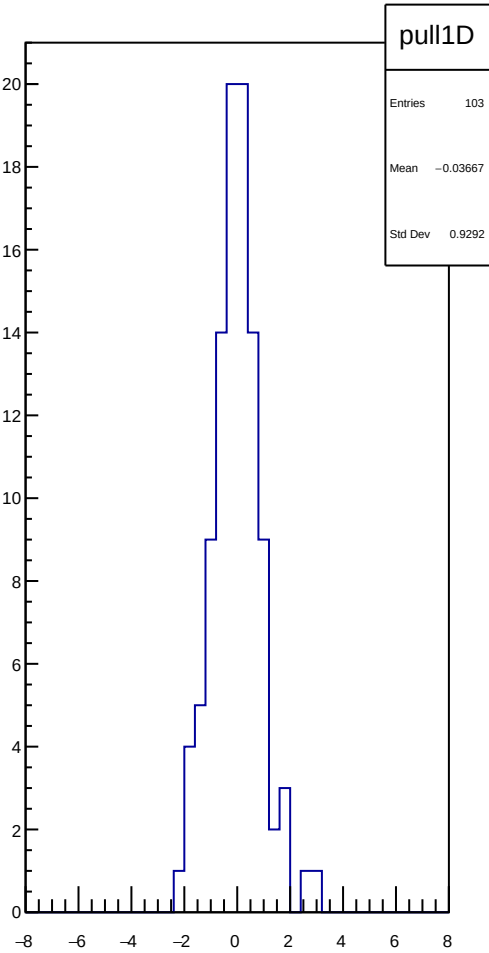
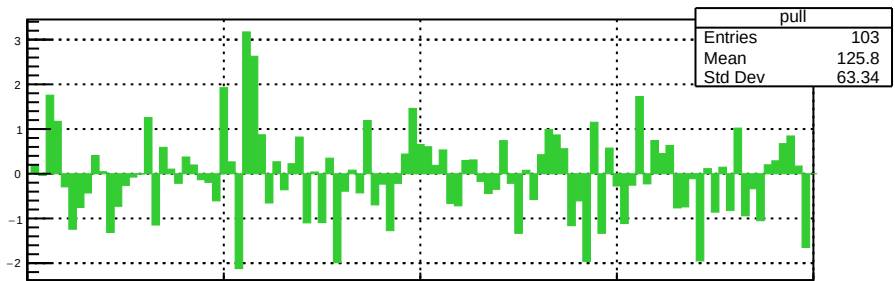
27.16 ± 0.01923



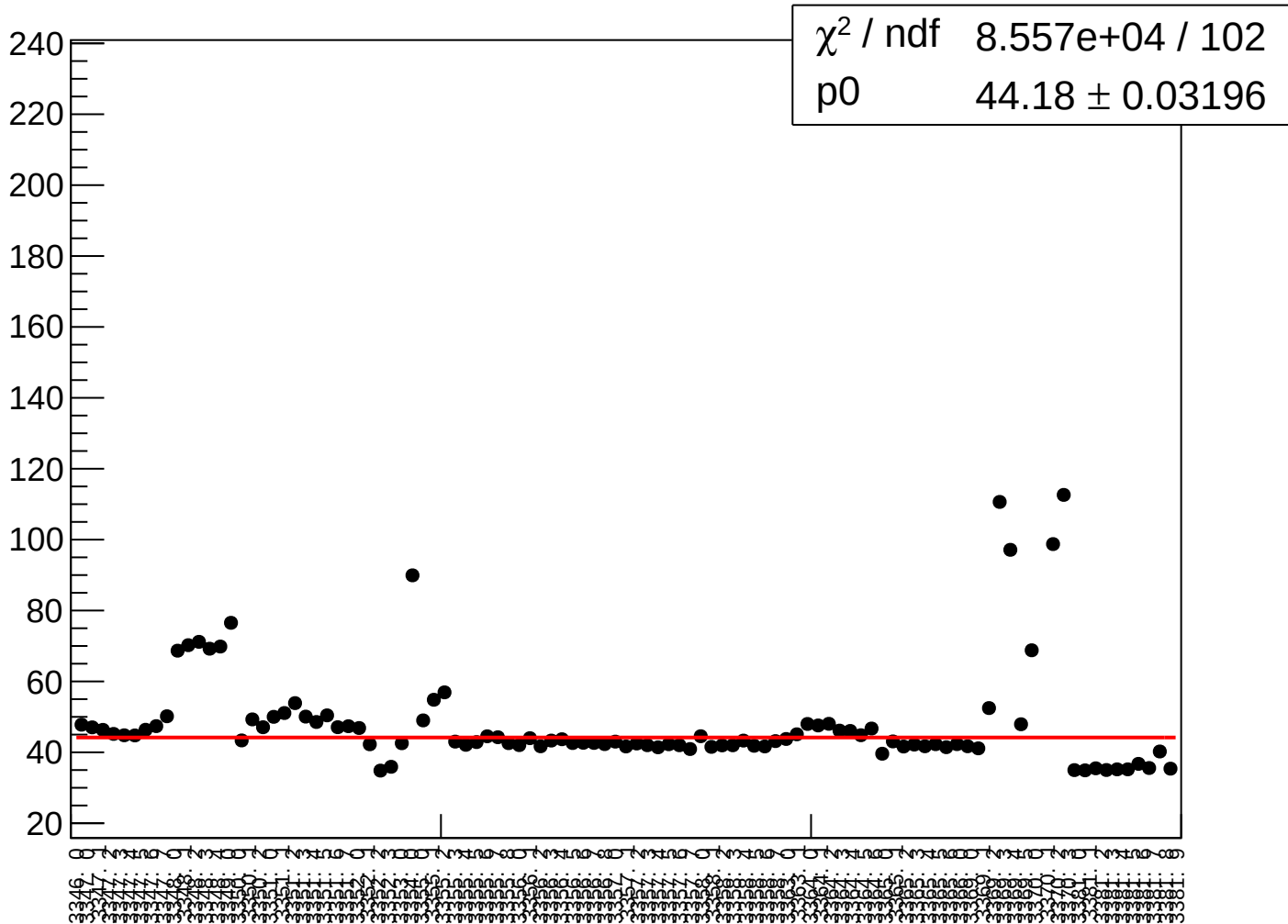
asym_right_dd_correction_mean vs run



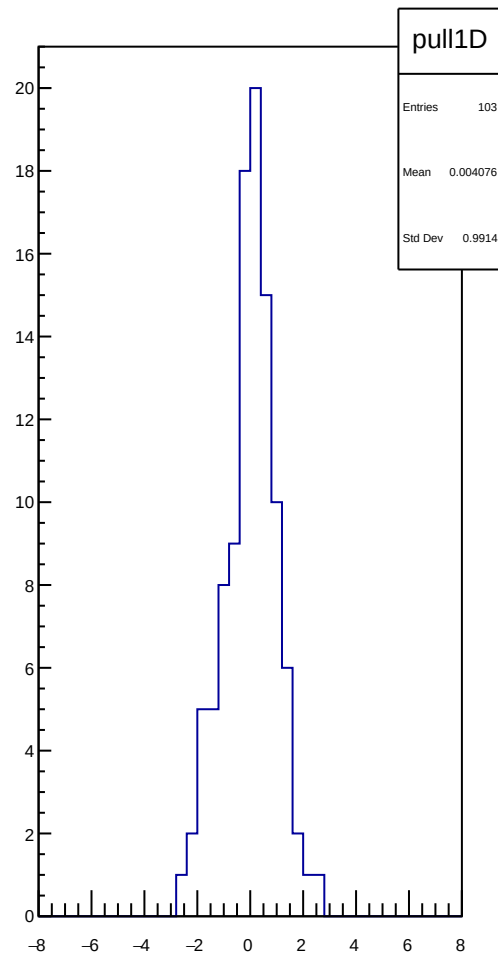
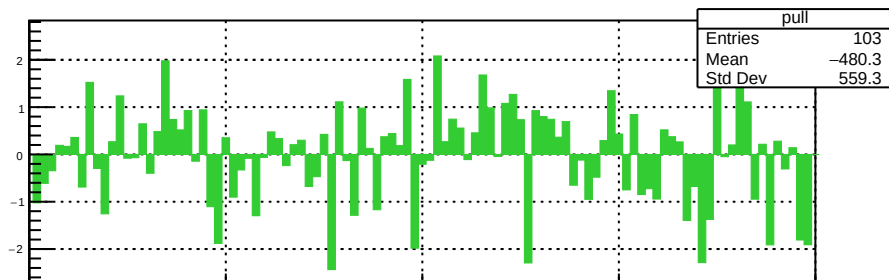
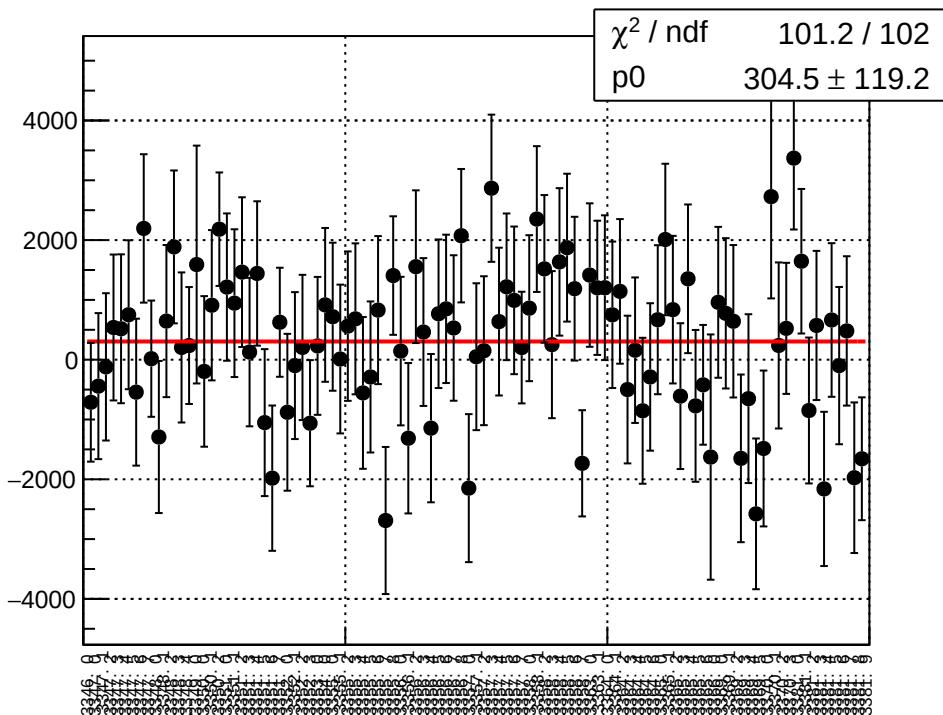
asym_right_dd_correction_mean vs run



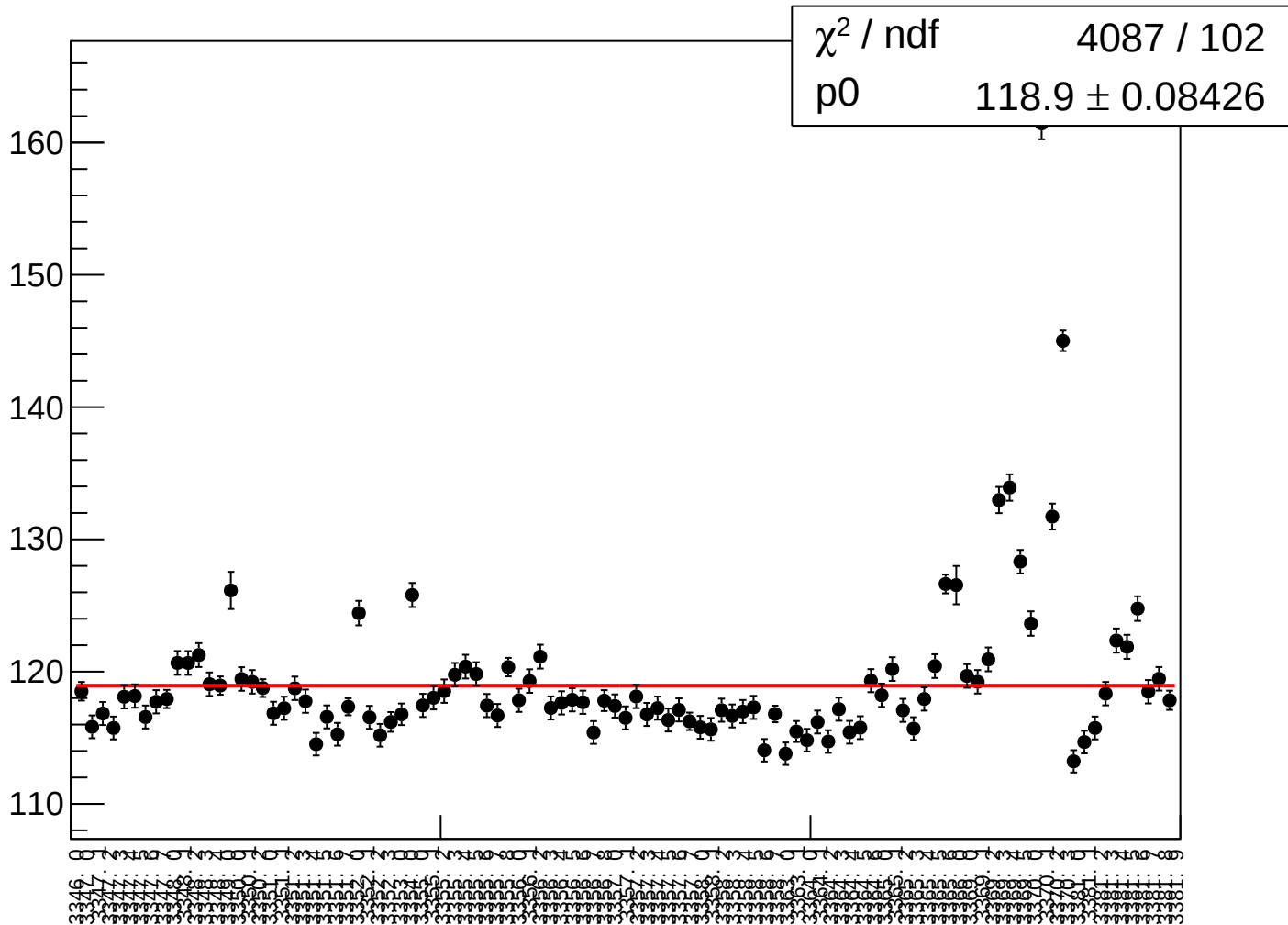
asym_right_dd_correction_rms vs run



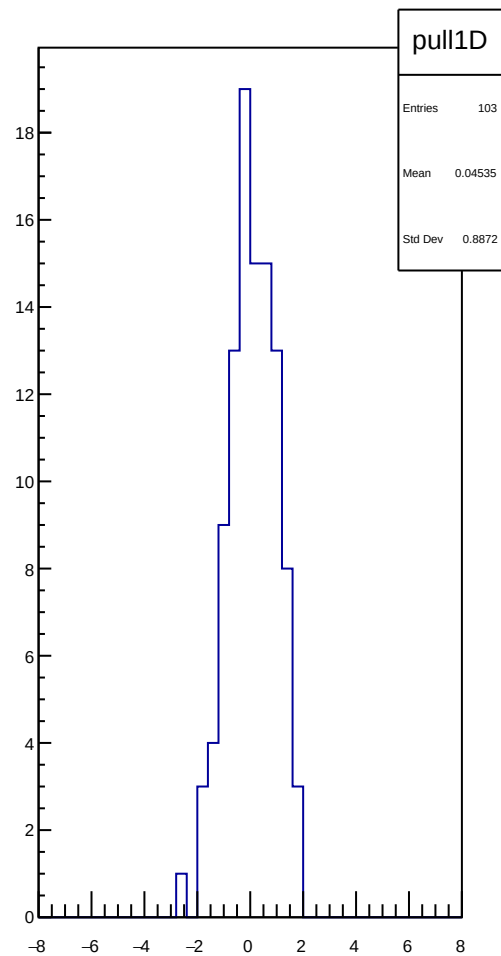
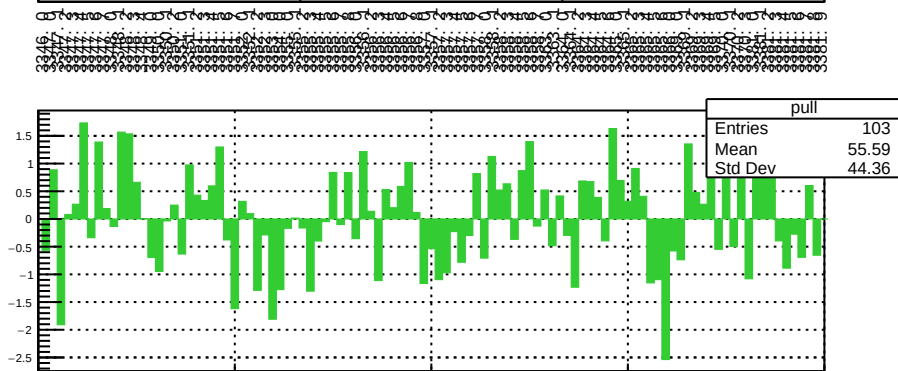
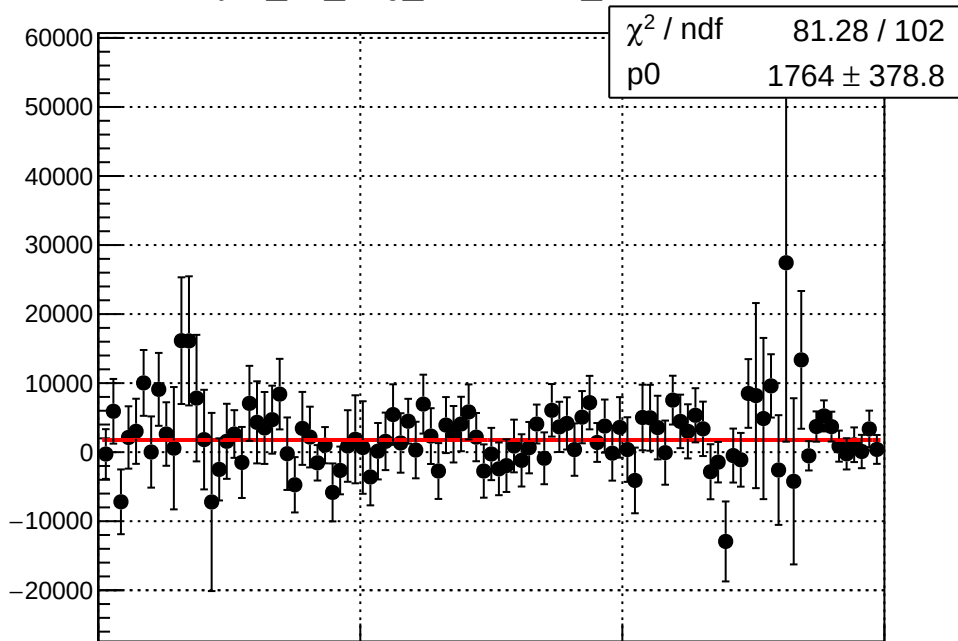
reg_asym_us_avg_mean vs run



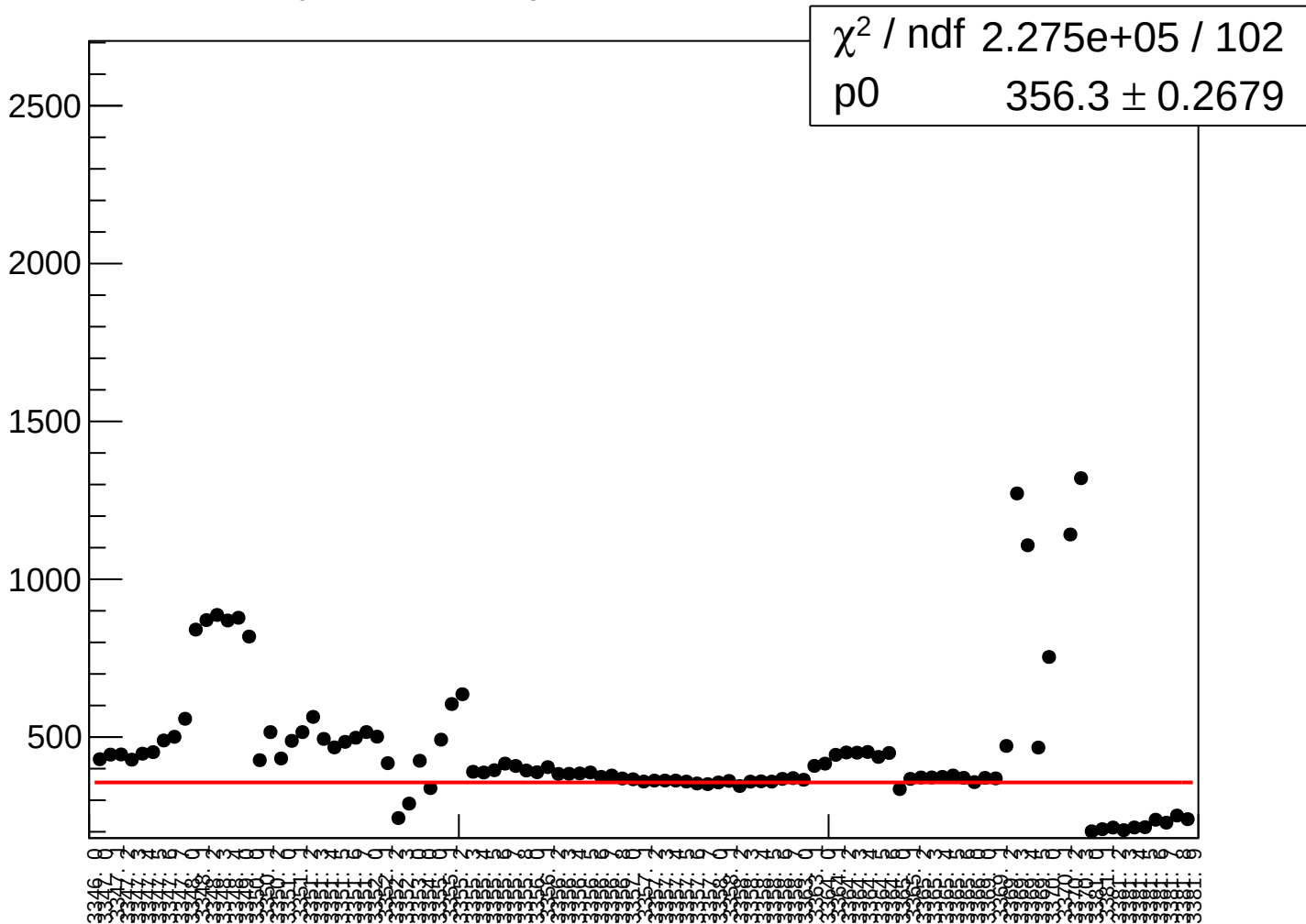
reg_asym_us_avg_rms vs run



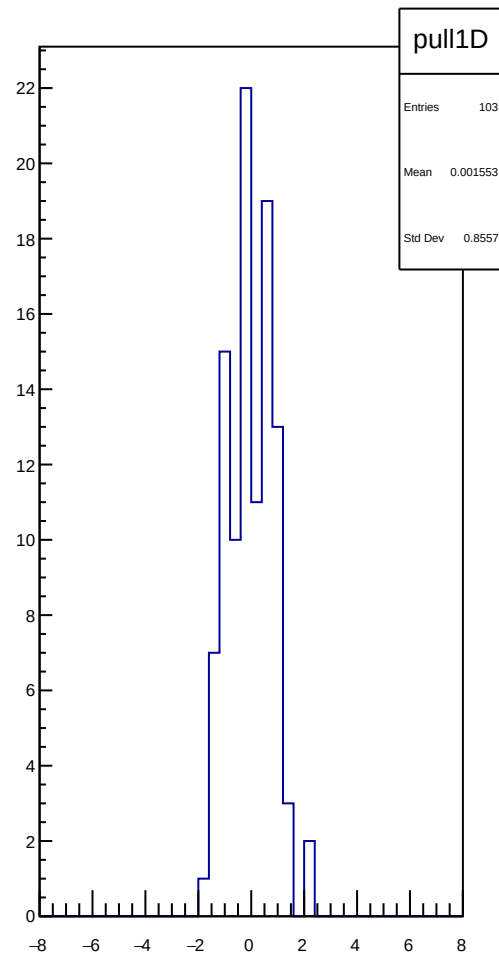
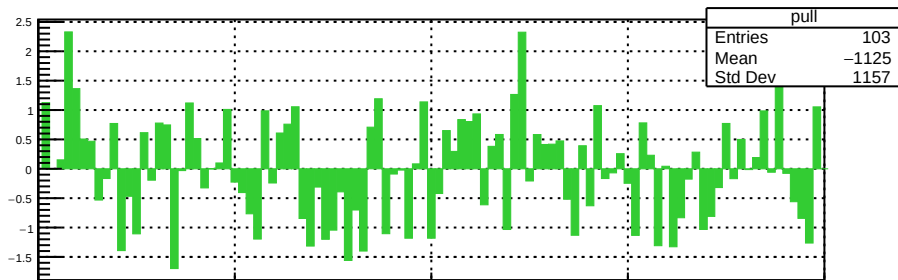
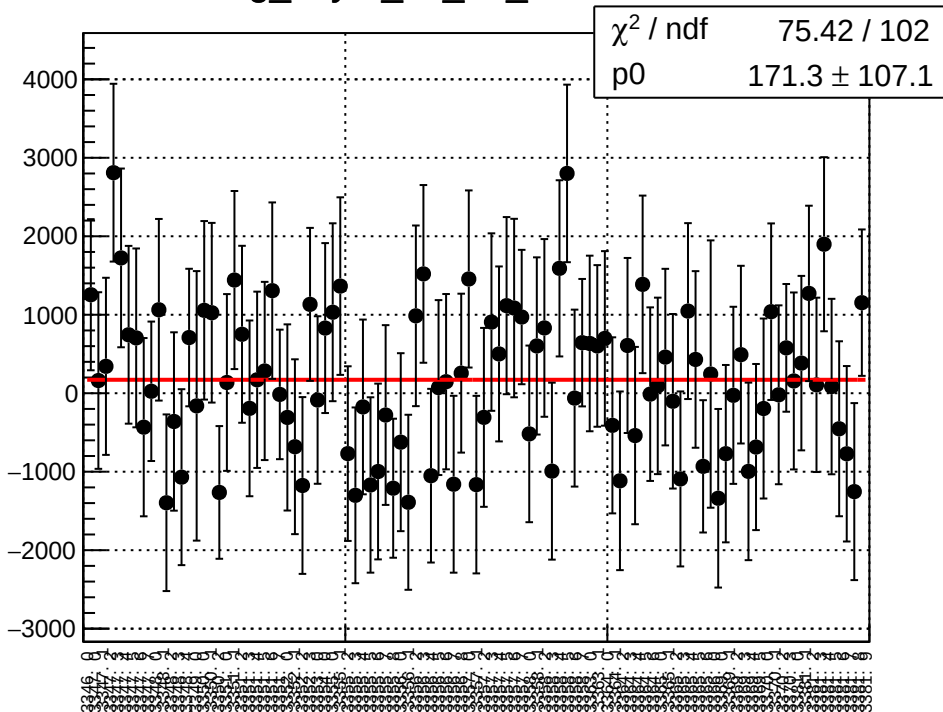
asym_us_avg_correction_mean vs run



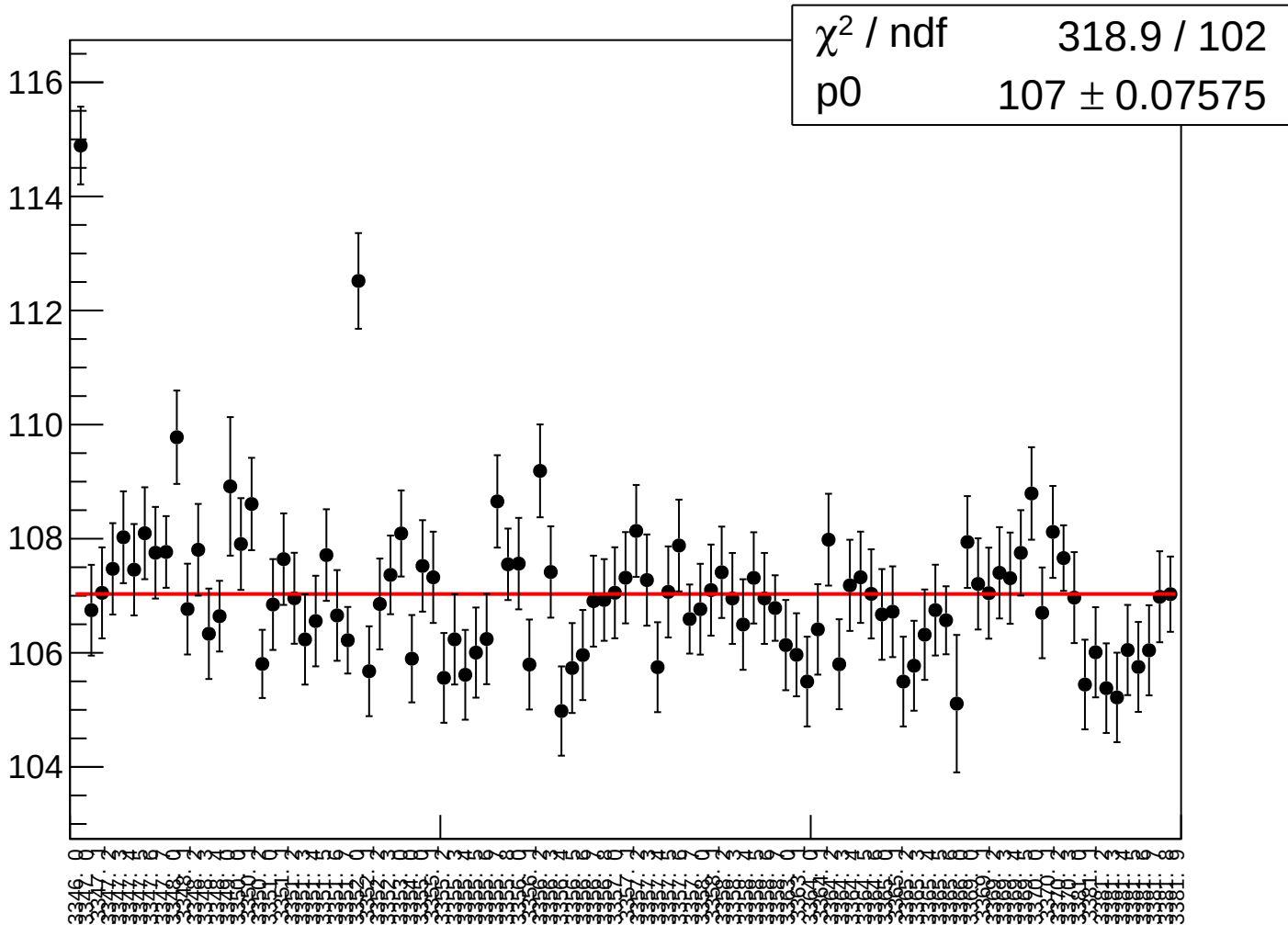
asym_us_avg_correction_rms vs run



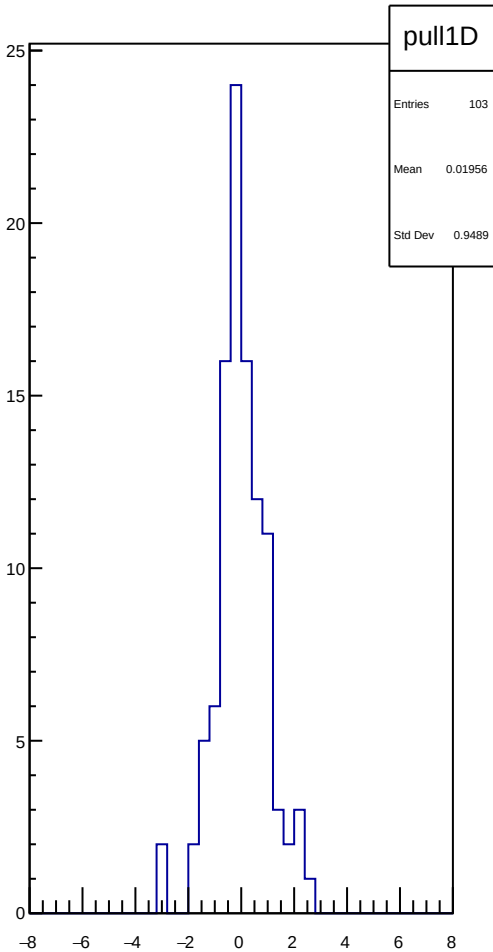
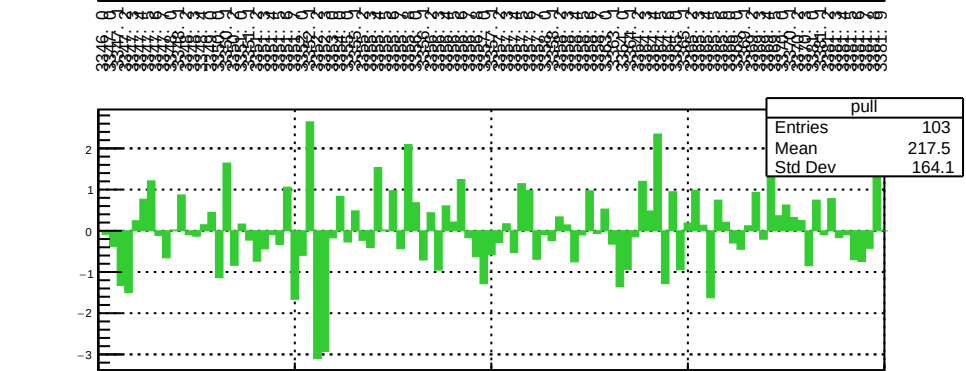
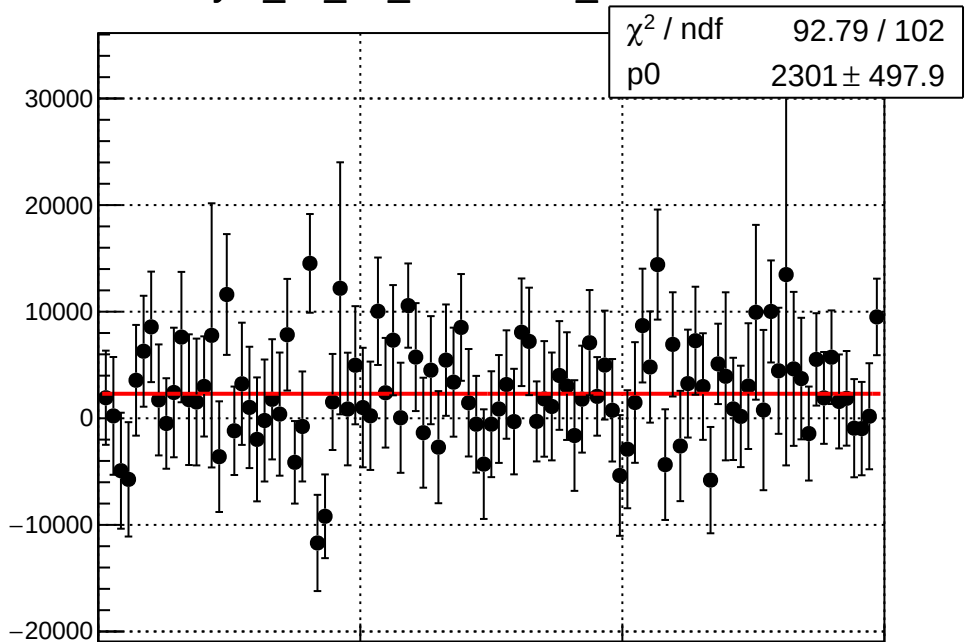
reg_asym_us_dd_mean vs run



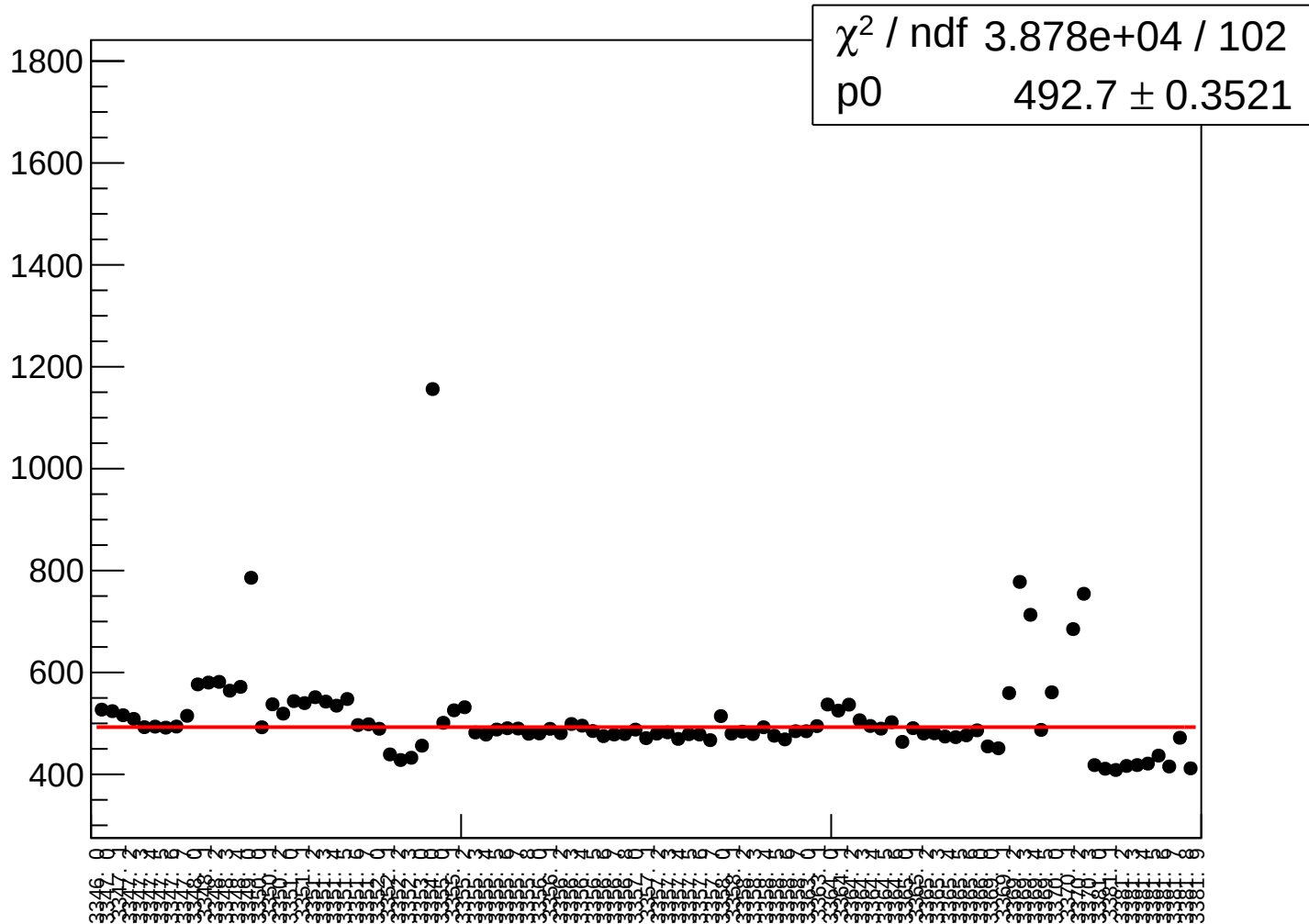
reg_asym_us_dd_rms vs run



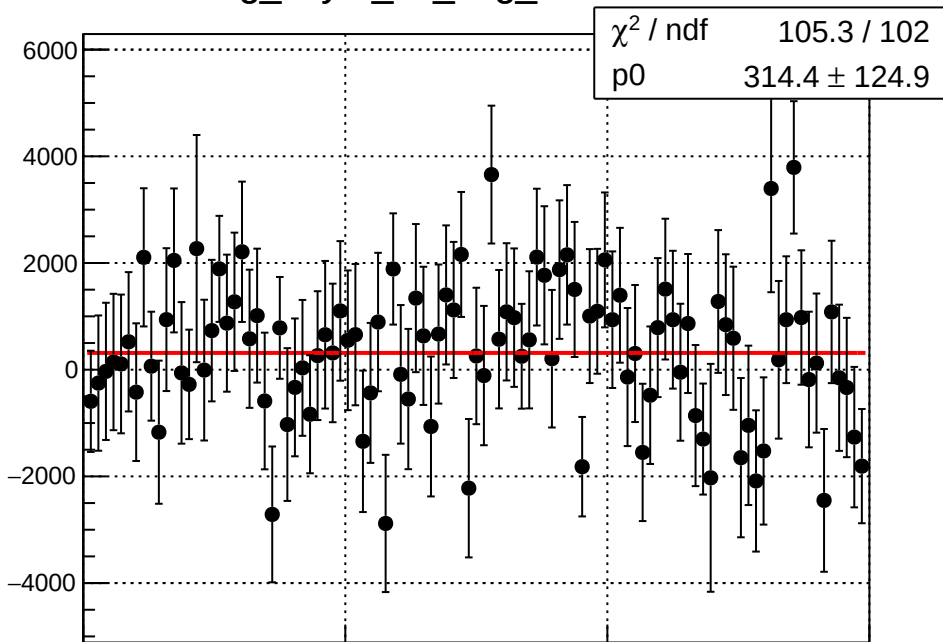
asym_us_dd_correction_mean vs run

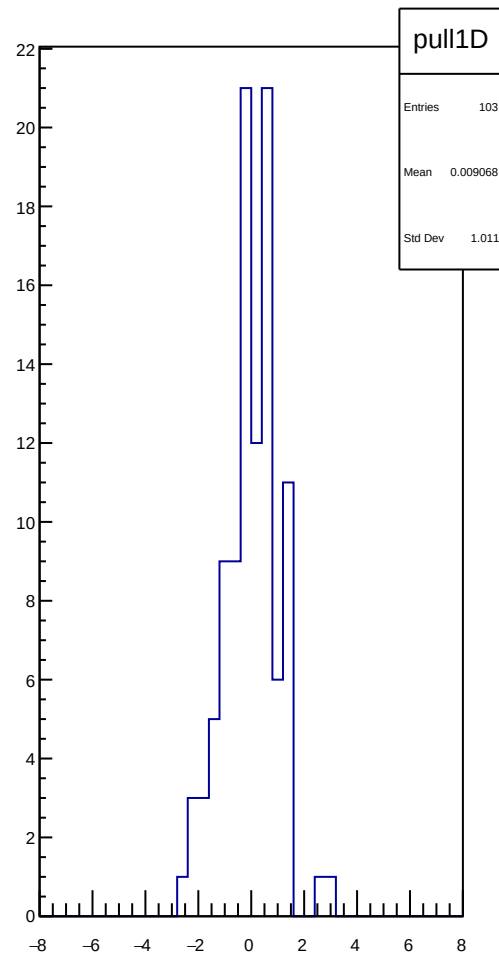
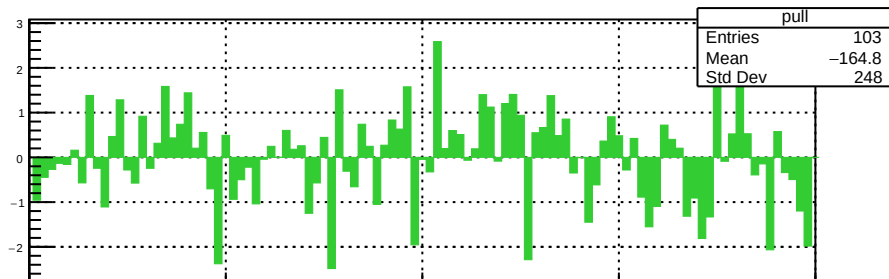


asym_us_dd_correction_rms vs run

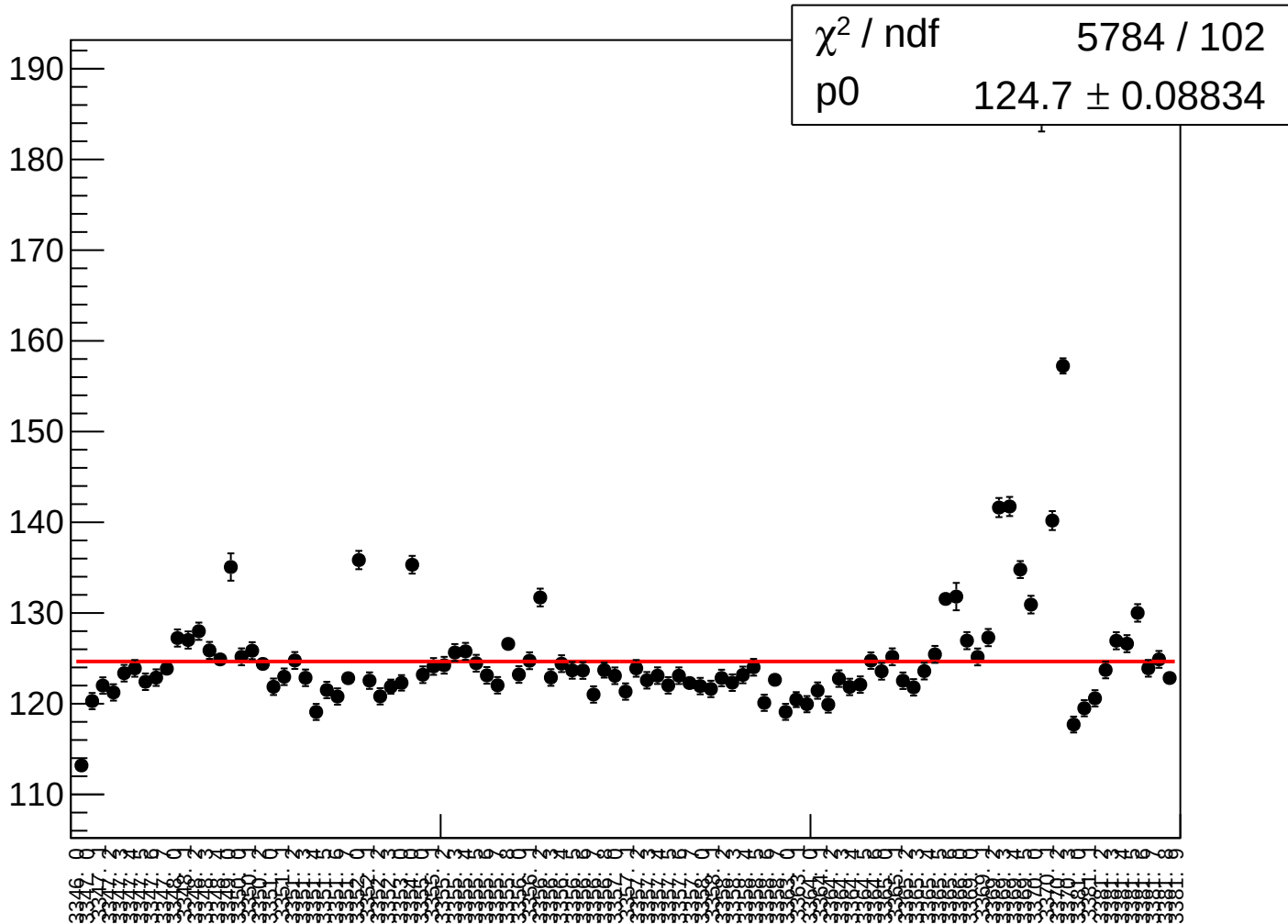


reg_asym_ds_avg_mean vs run

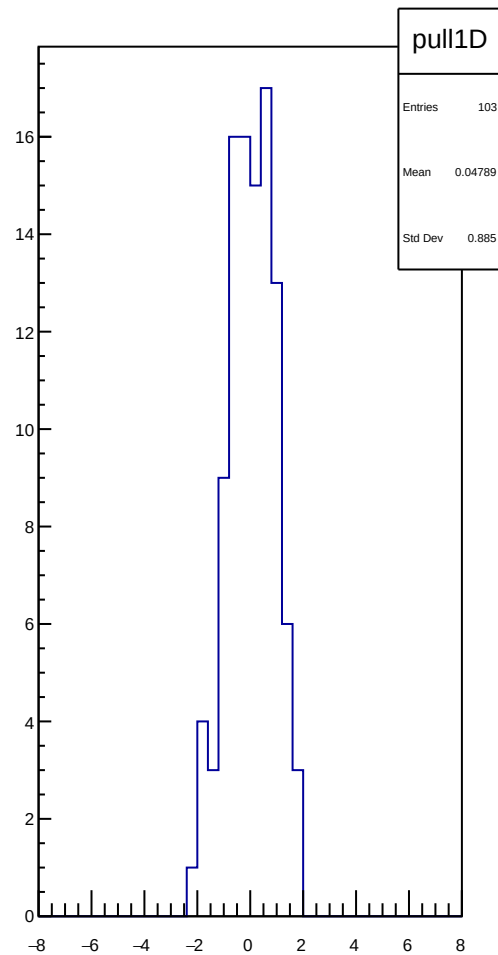
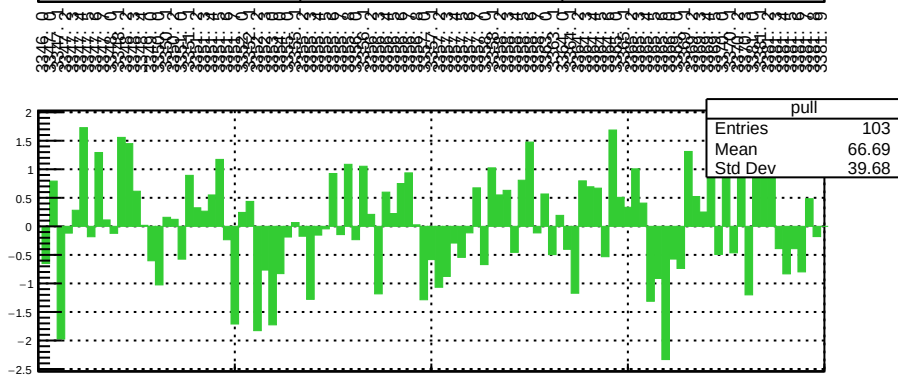
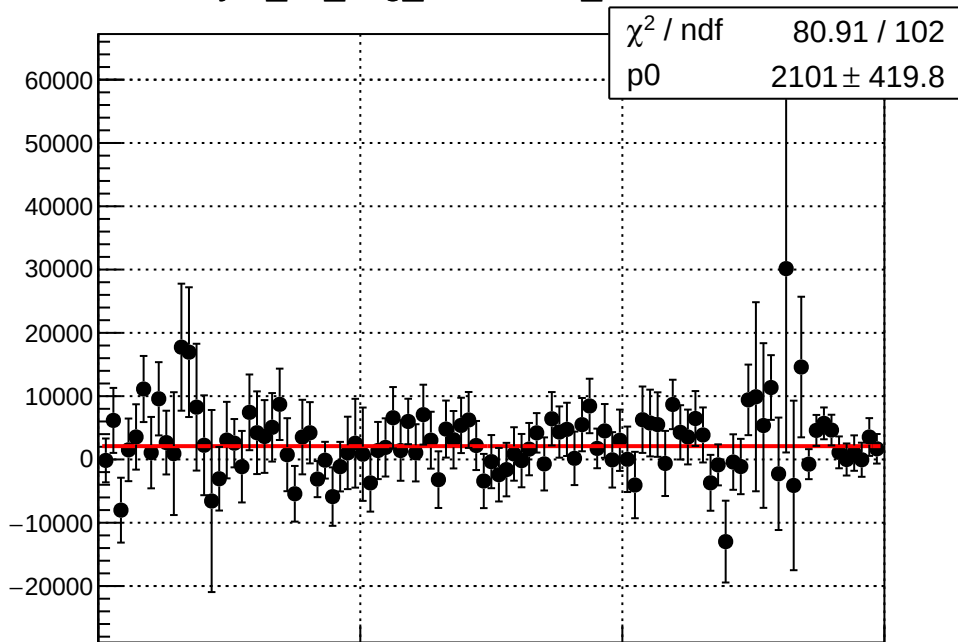




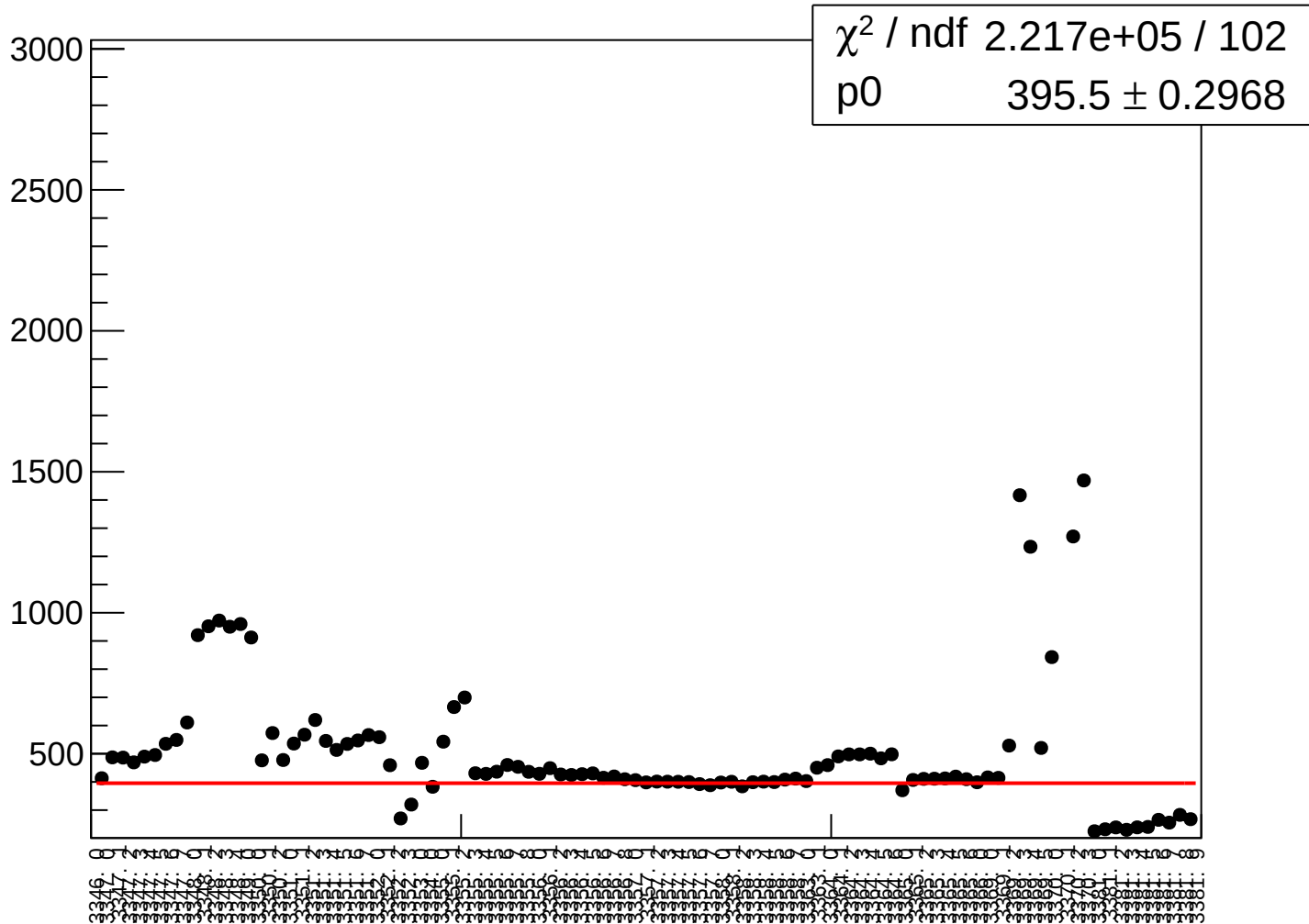
reg_asym_ds_avg_rms vs run



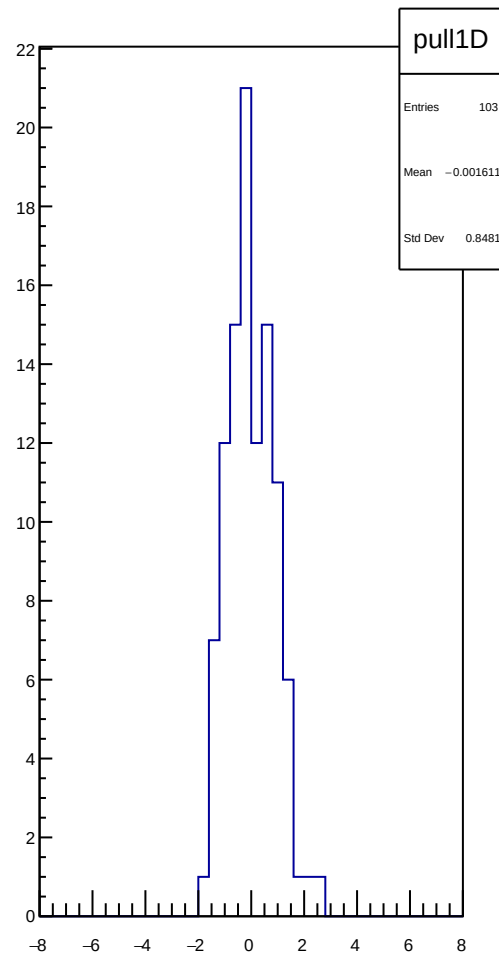
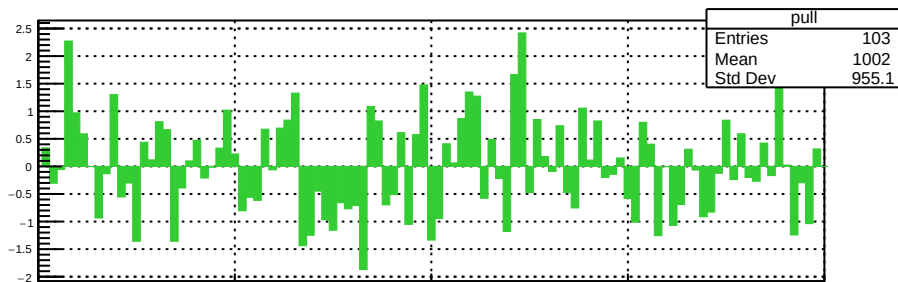
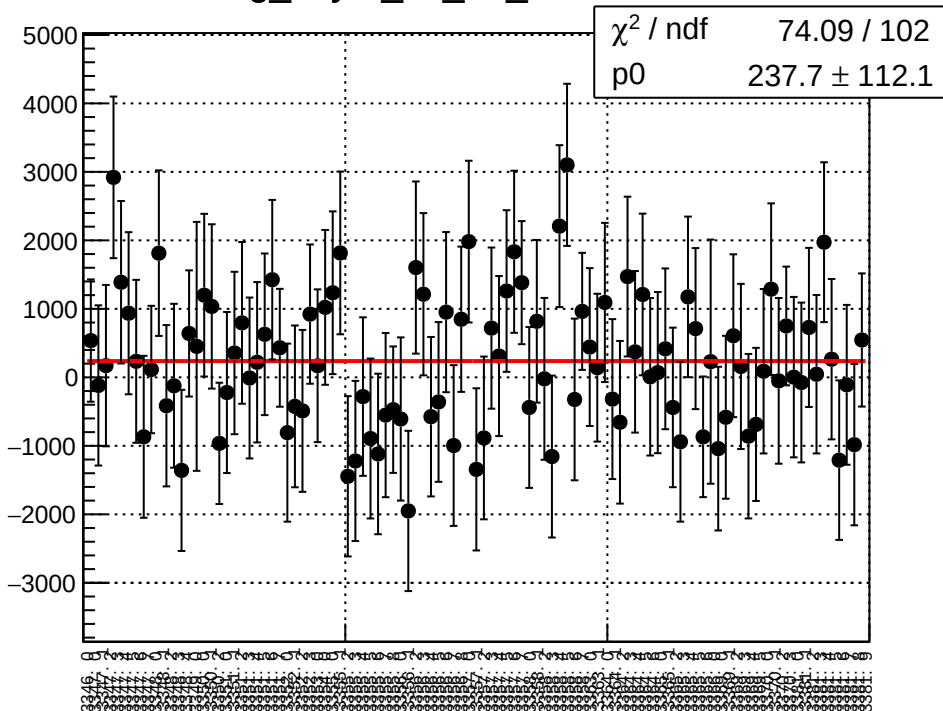
asym_ds_avg_correction_mean vs run



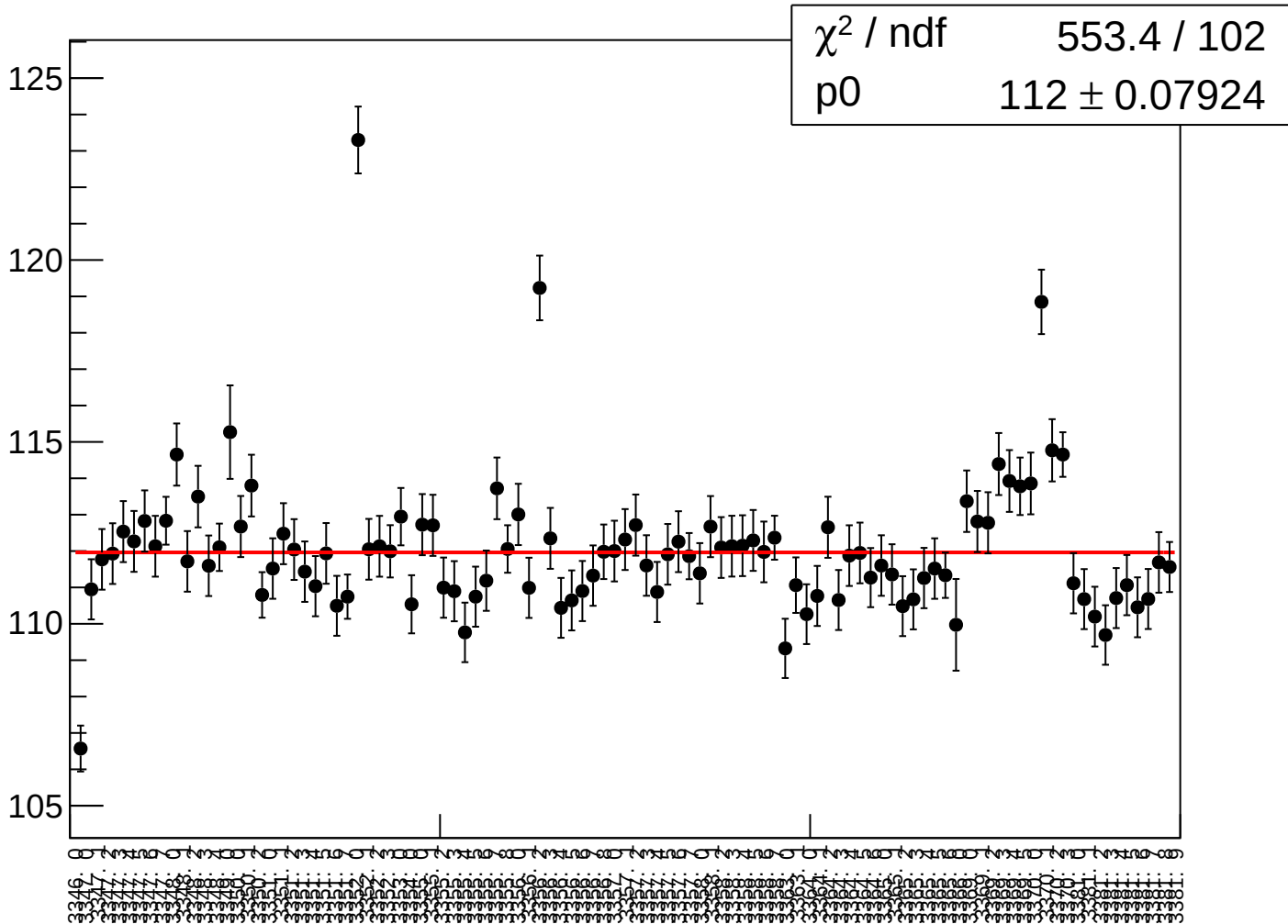
asym_ds_avg_correction_rms vs run



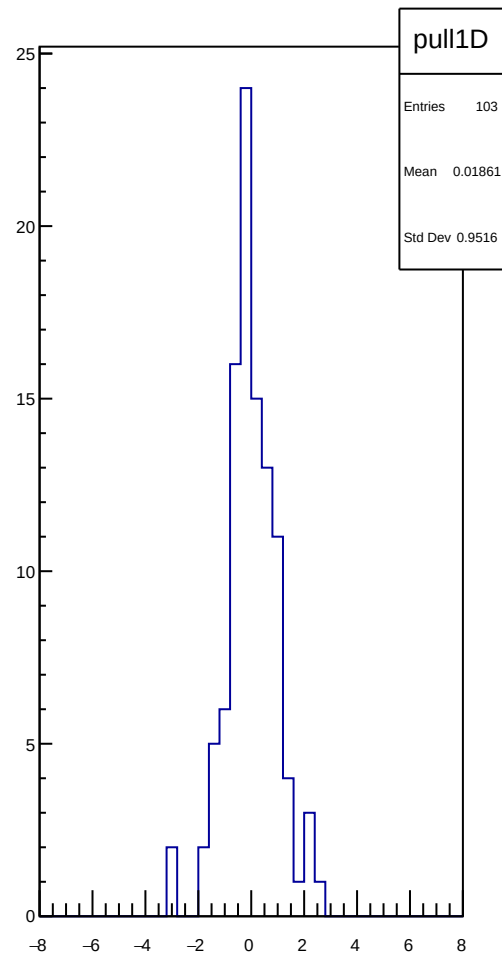
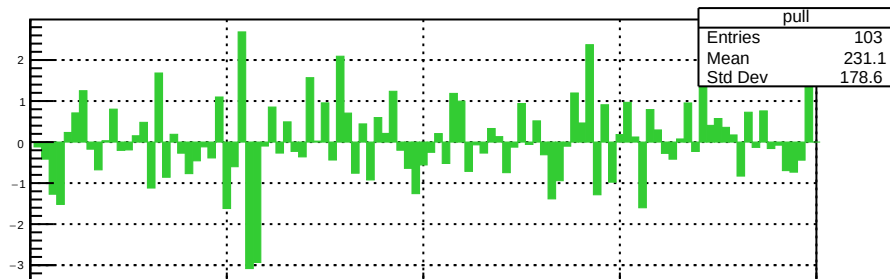
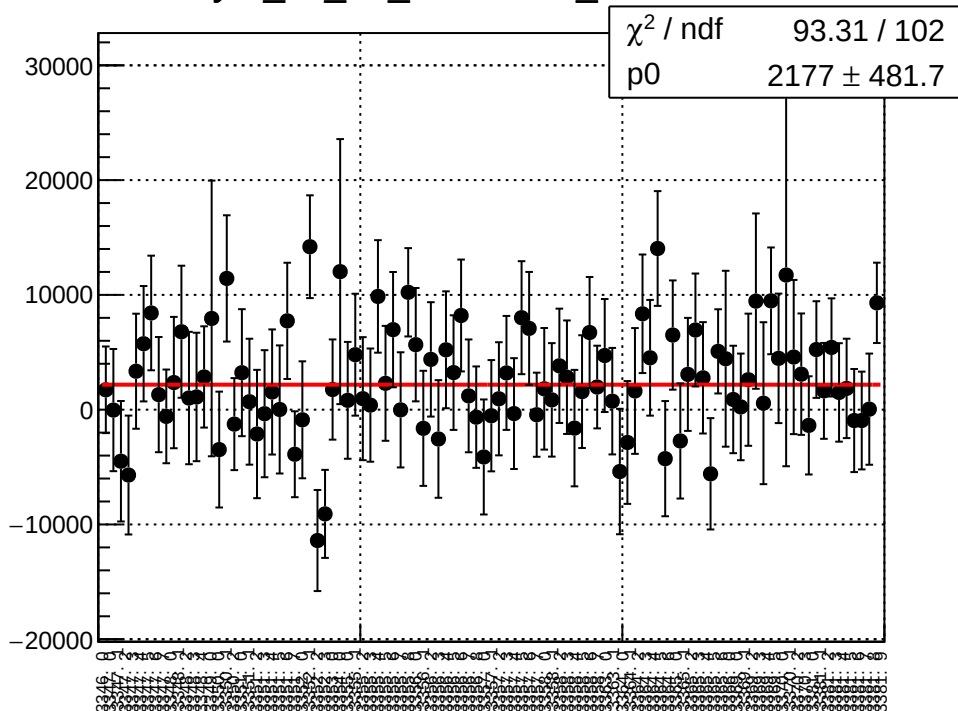
reg_asym_ds_dd_mean vs run



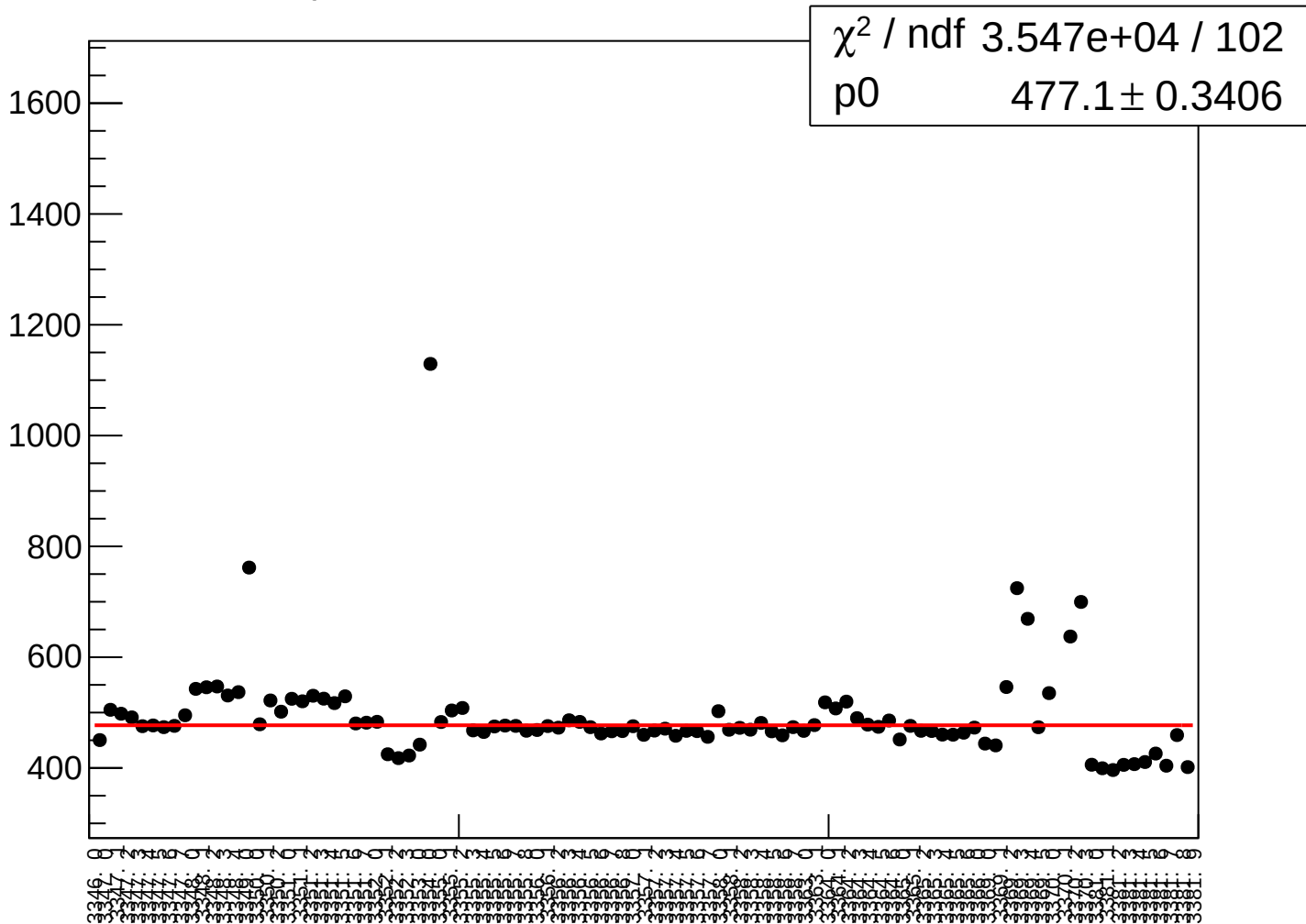
reg_asym_ds_dd_rms vs run



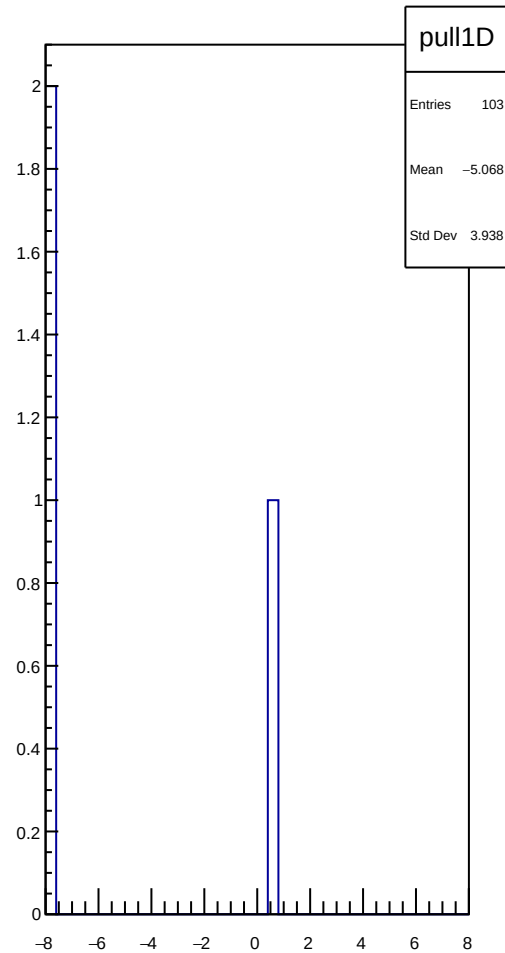
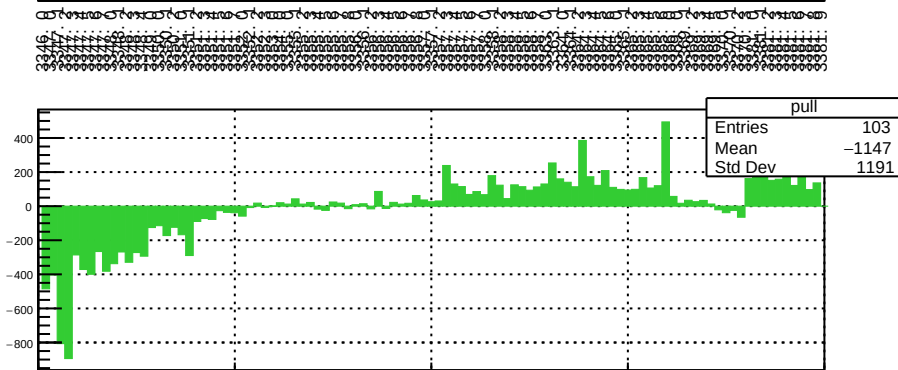
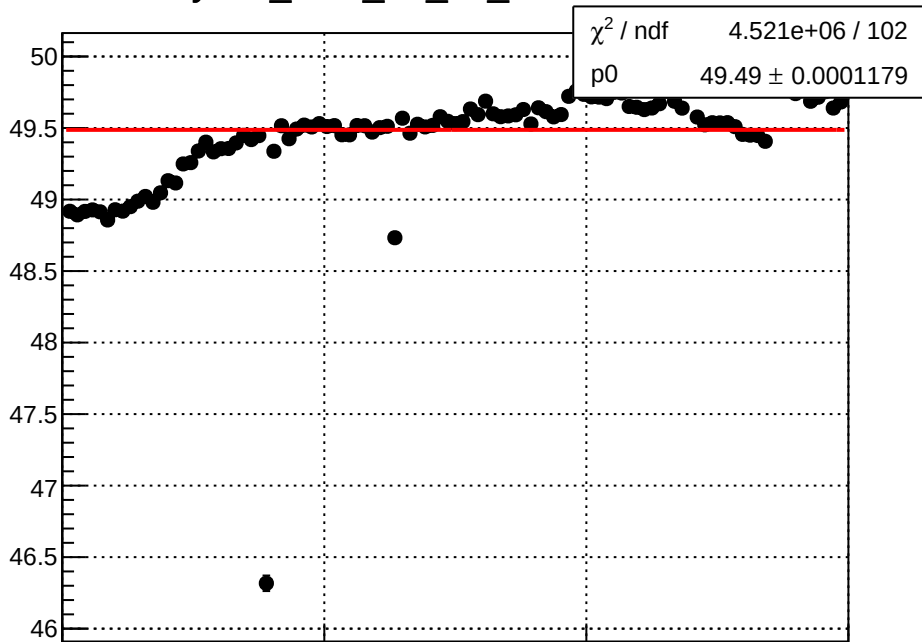
asym_ds_dd_correction_mean vs run



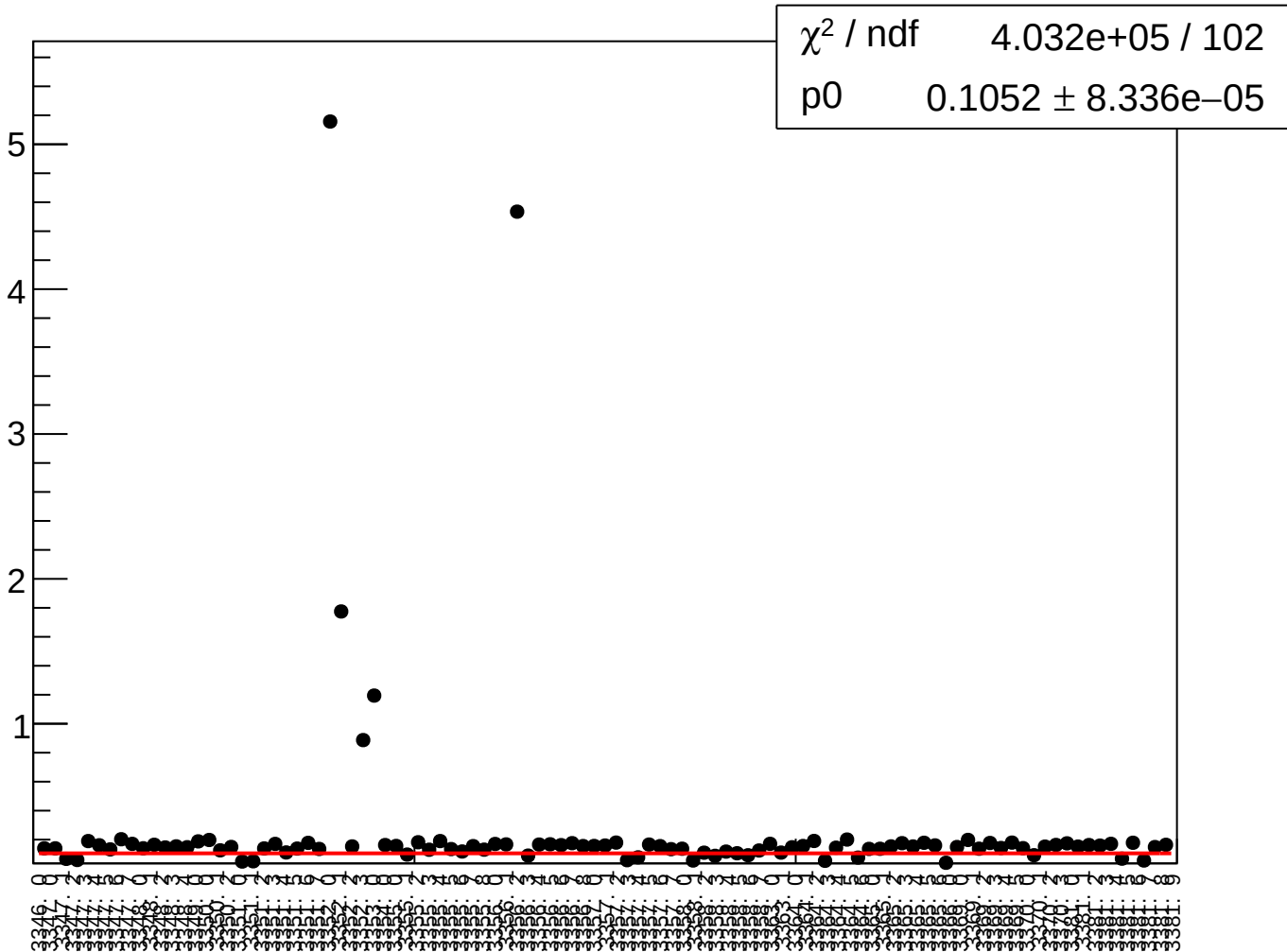
asym_ds_dd_correction_rms vs run



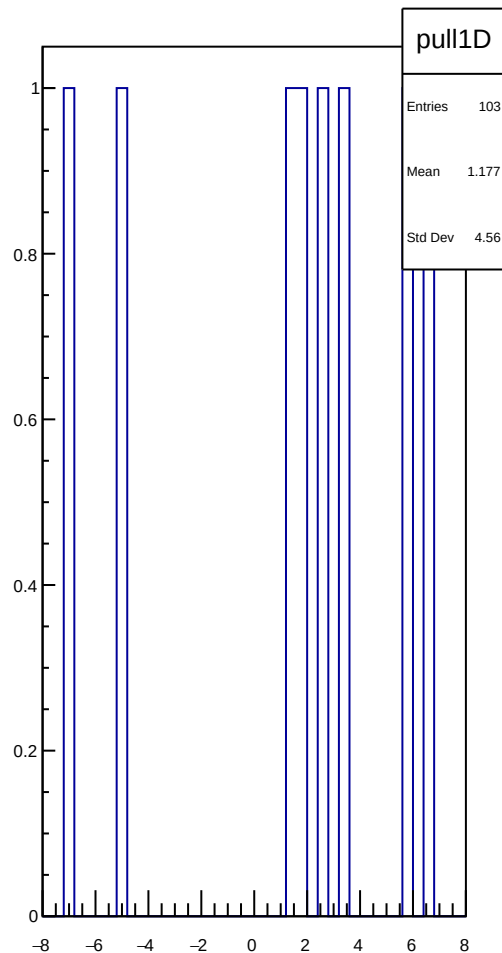
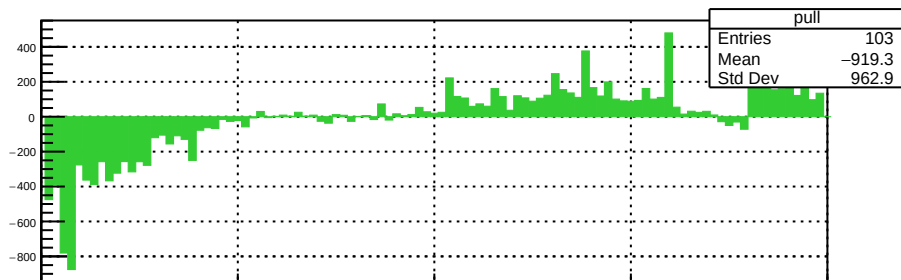
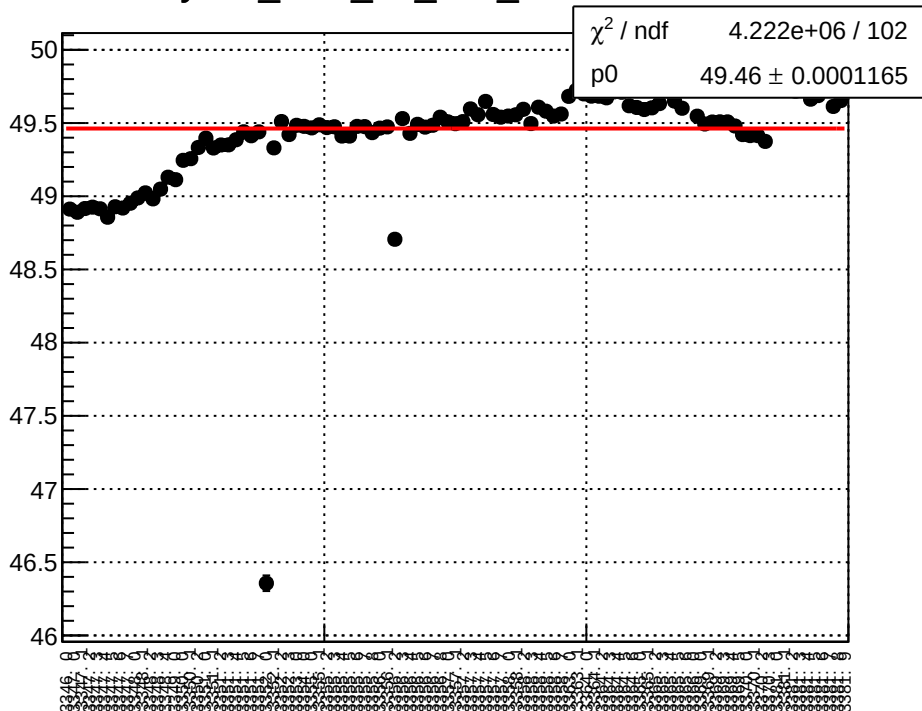
yield_bcm_an_ds_mean vs run



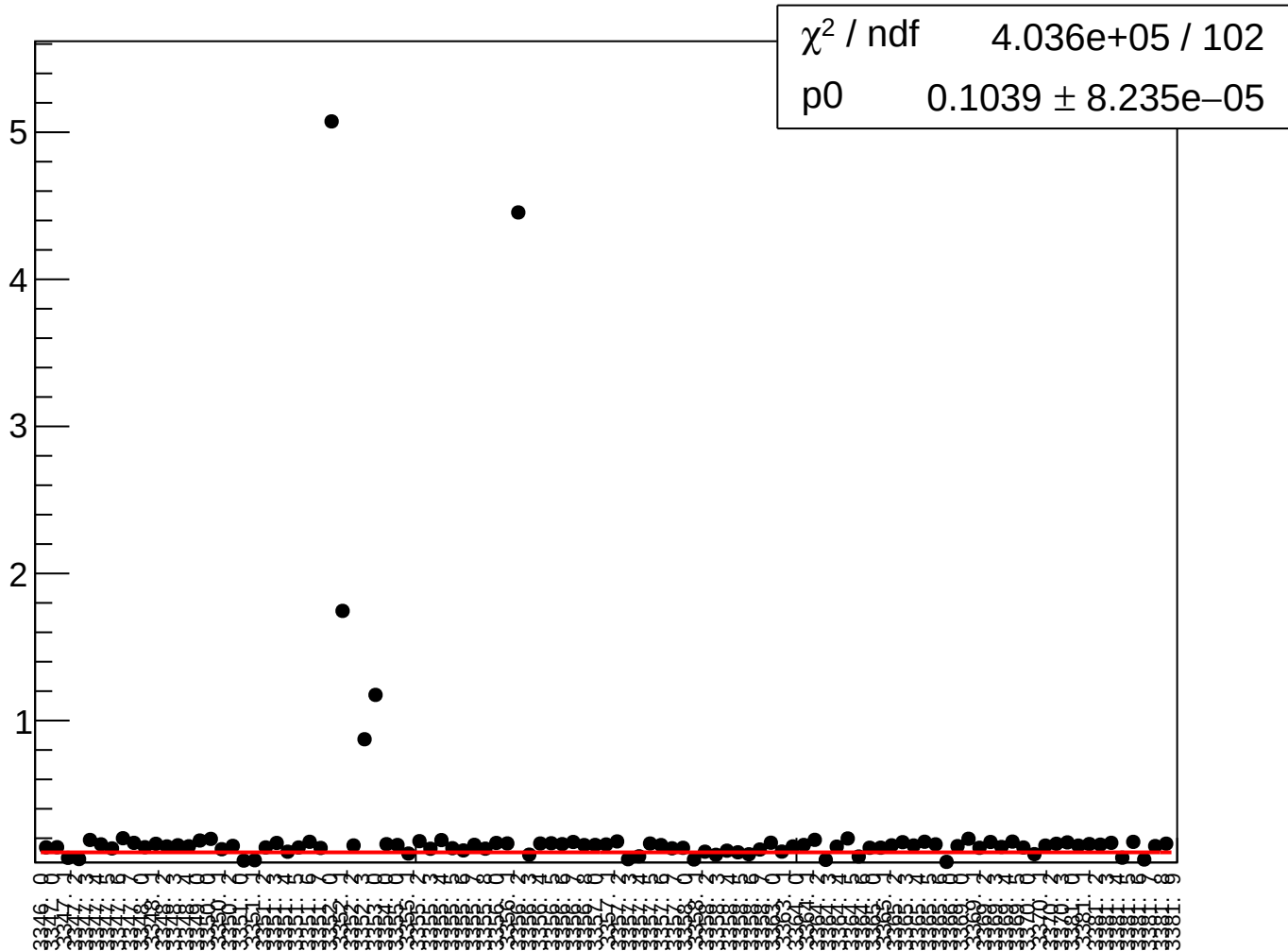
yield_bcm_an_ds_rms vs run



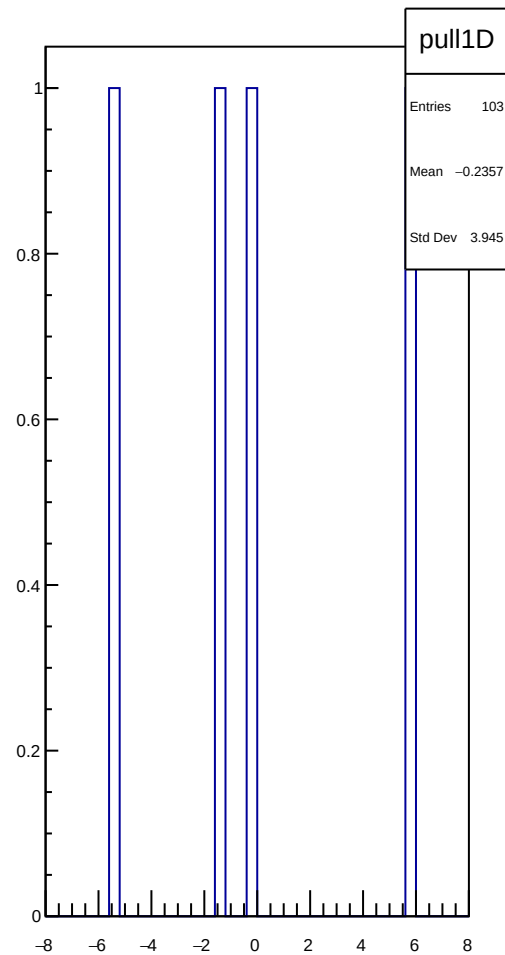
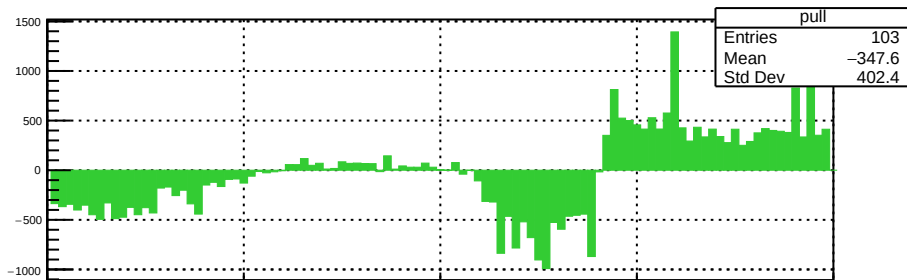
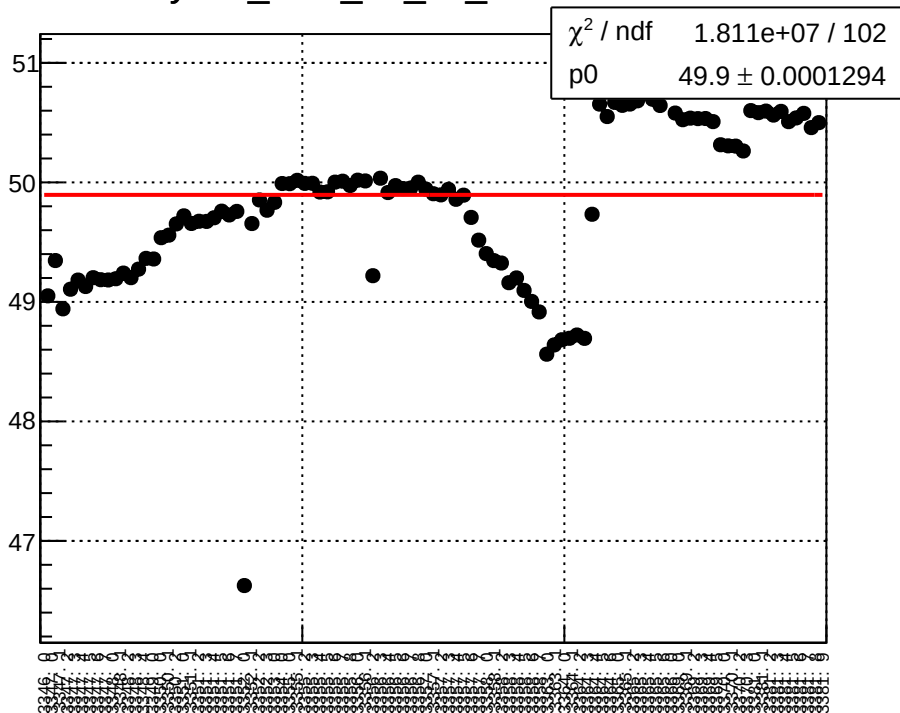
yield_bcm_an_ds3_mean vs run



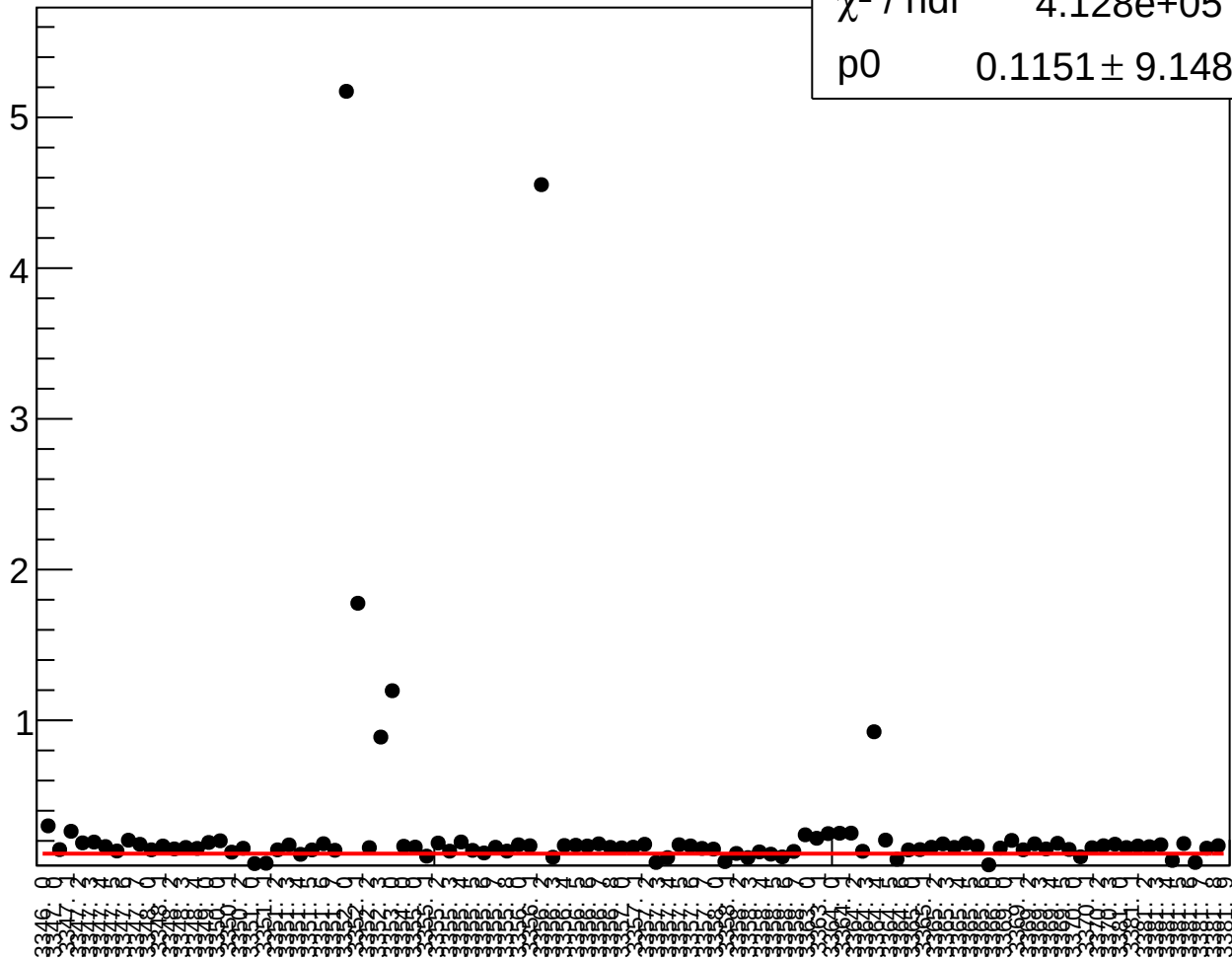
yield_bcm_an_ds3_rms vs run



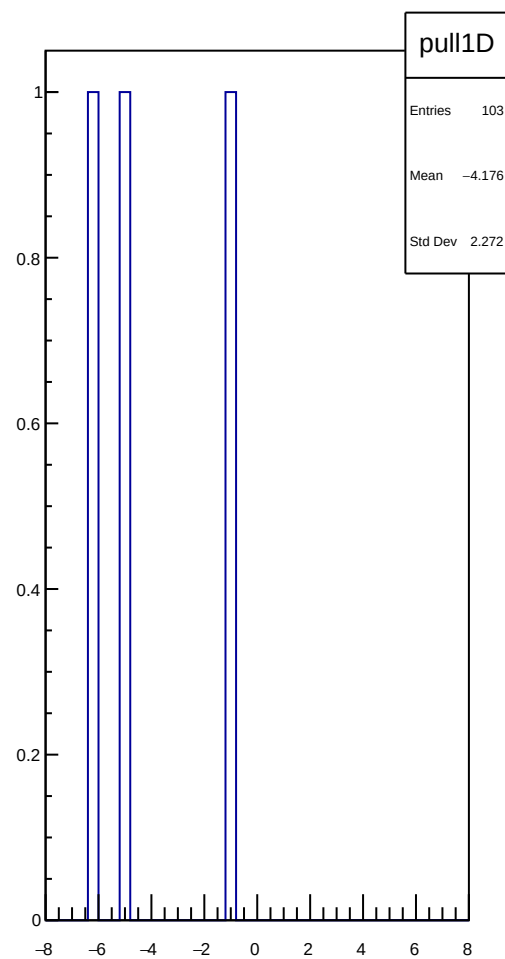
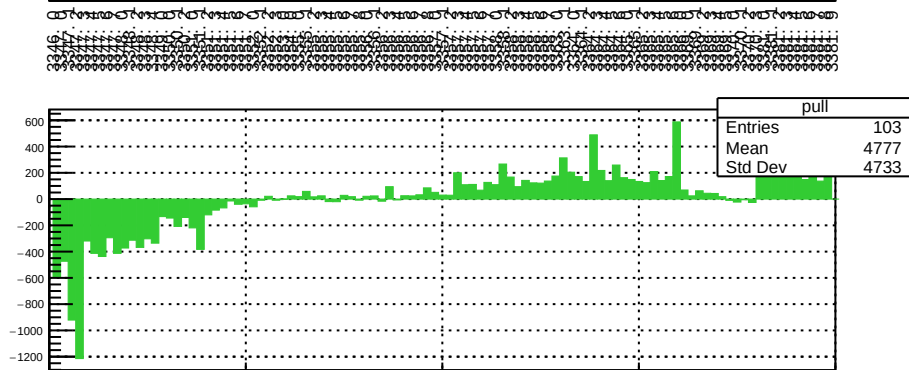
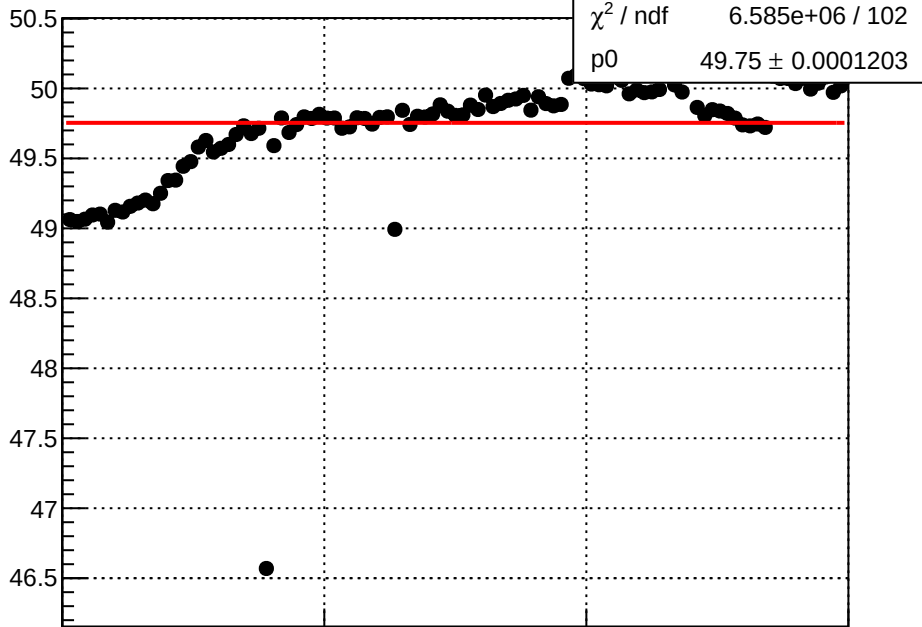
yield_bcm_an_us_mean vs run



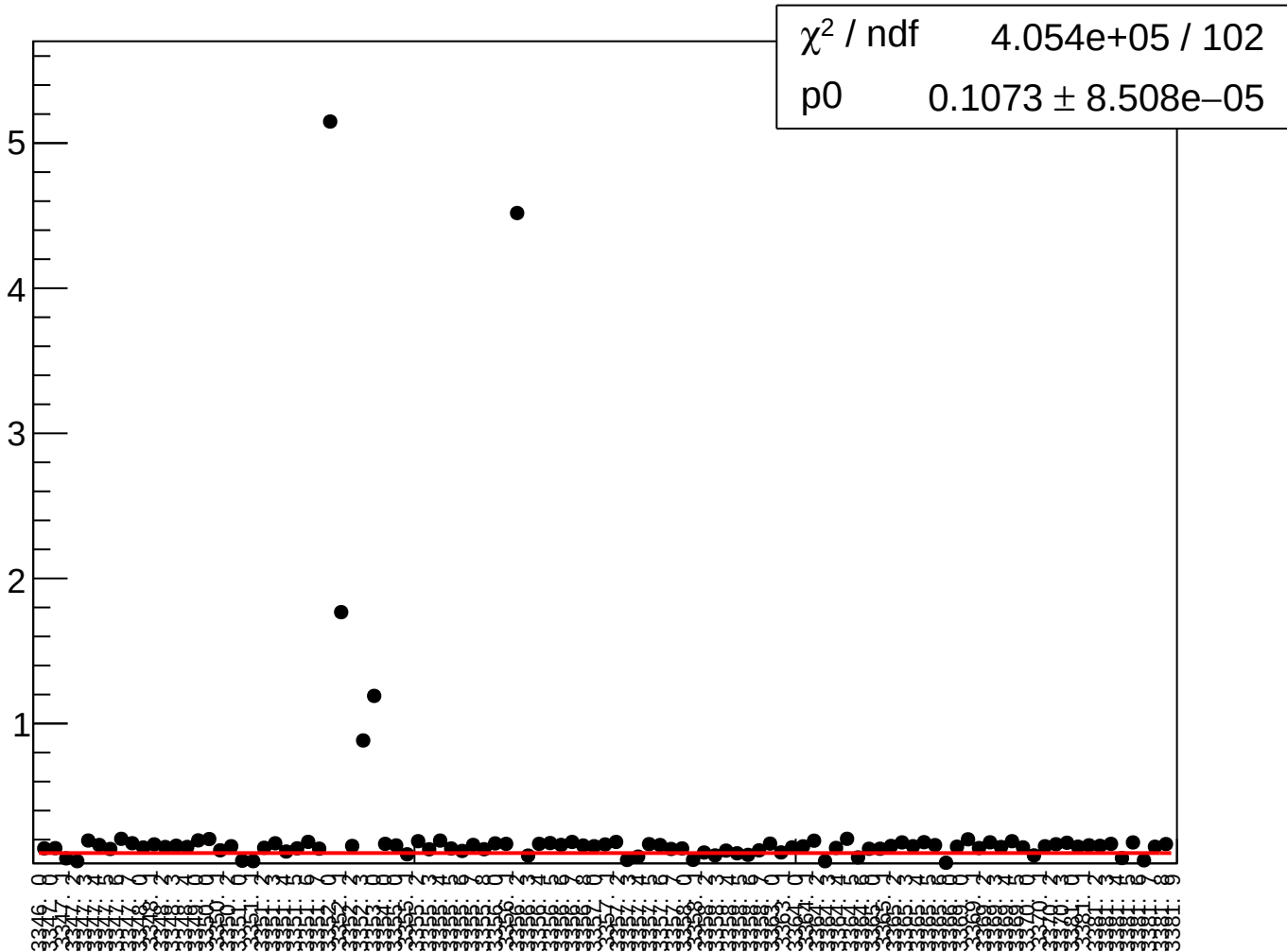
χ^2 / nfd 4.128e+05 / 102
p0 $0.1151 \pm 9.148\text{e-}05$



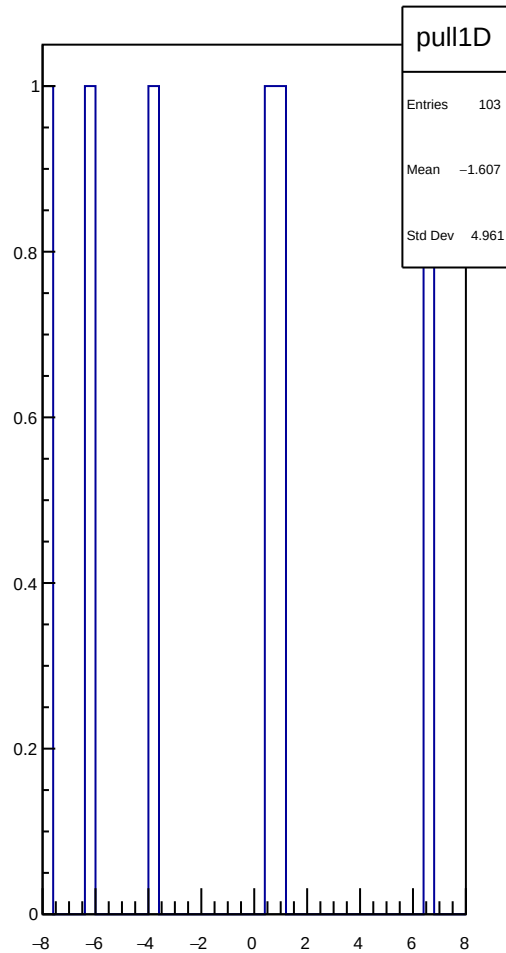
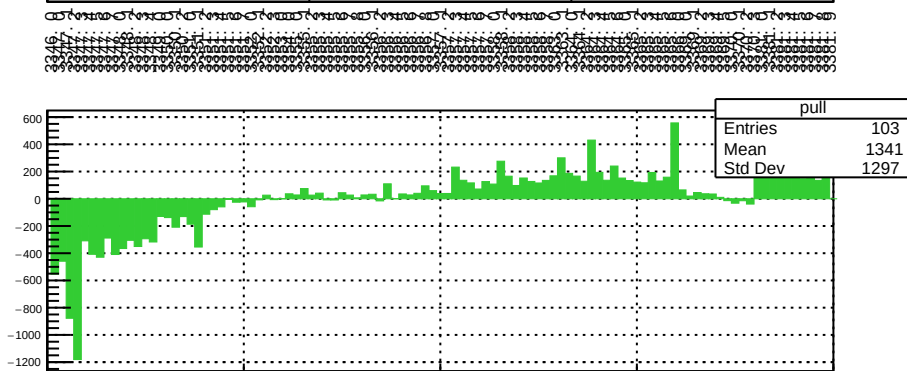
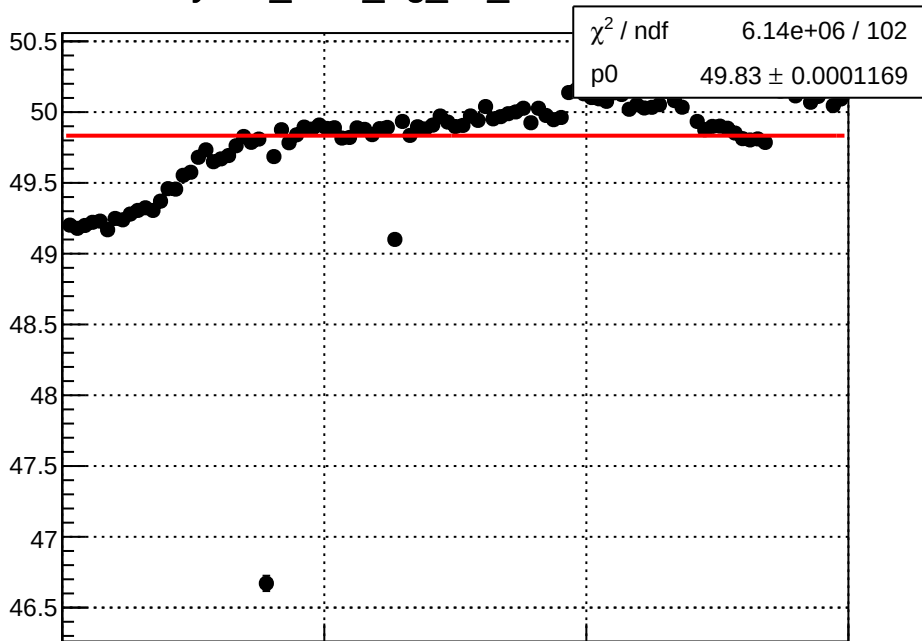
yield_bcm_dg_us_mean vs run



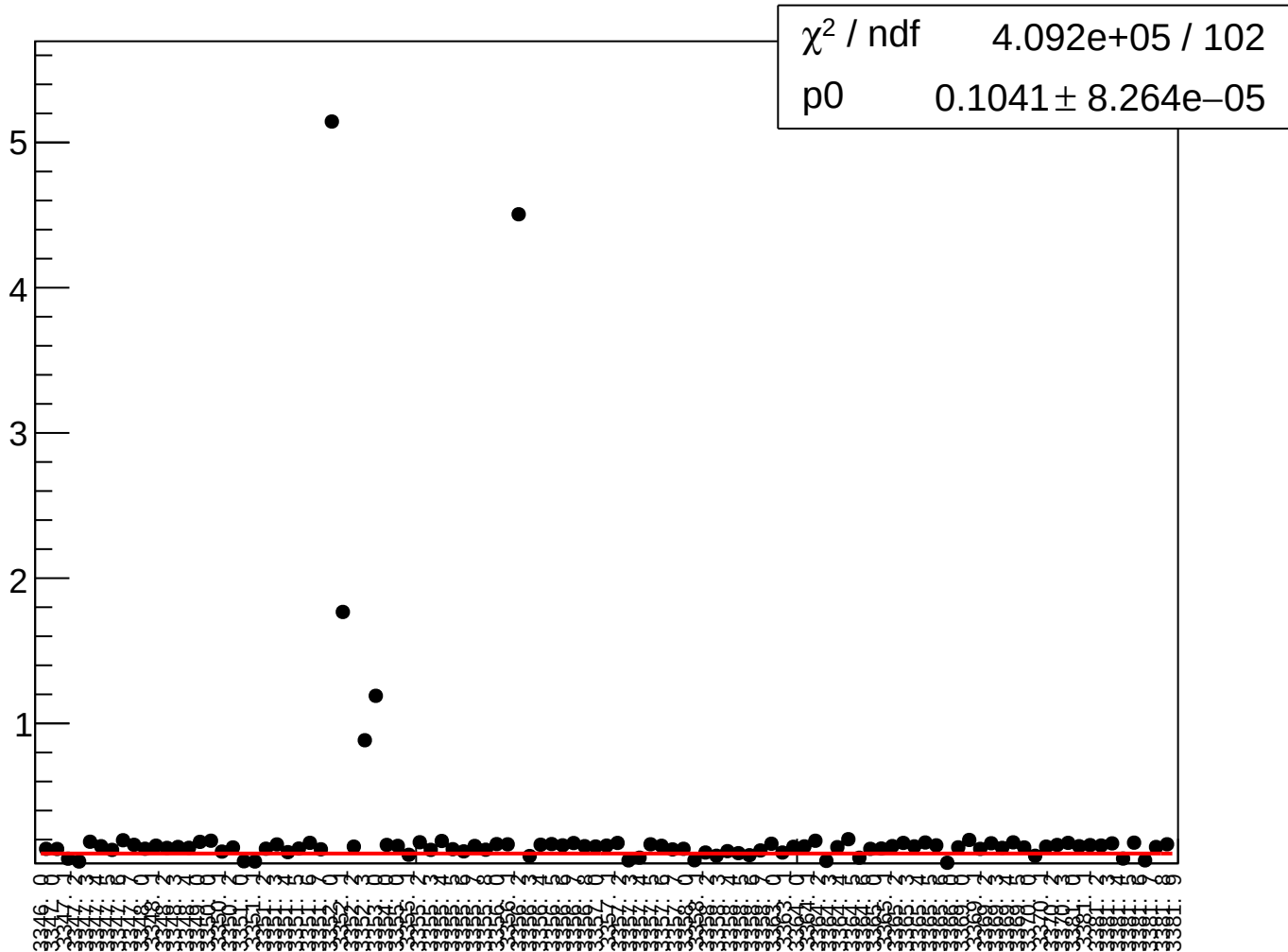
yield_bcm_dg_us_rms vs run



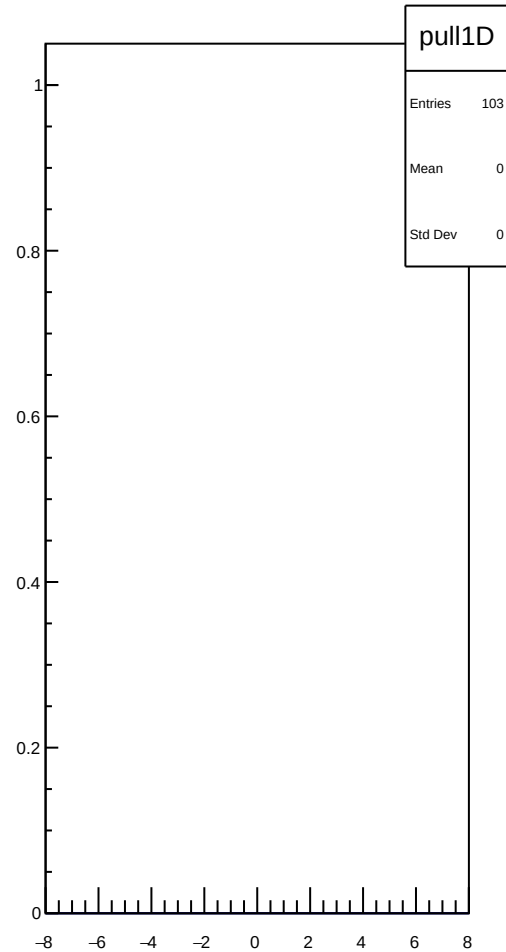
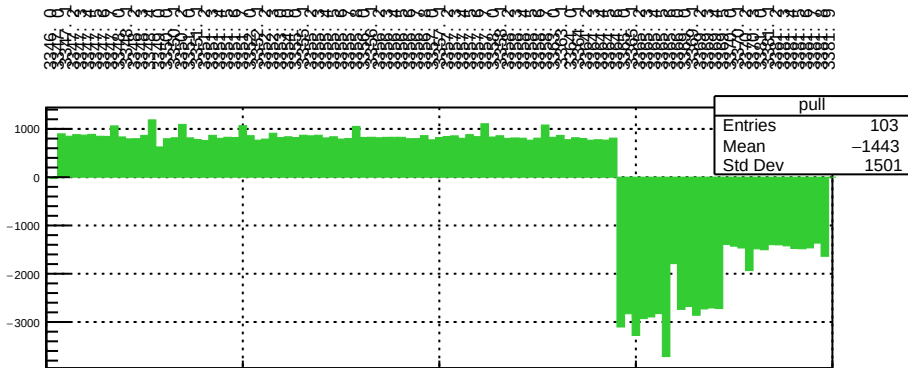
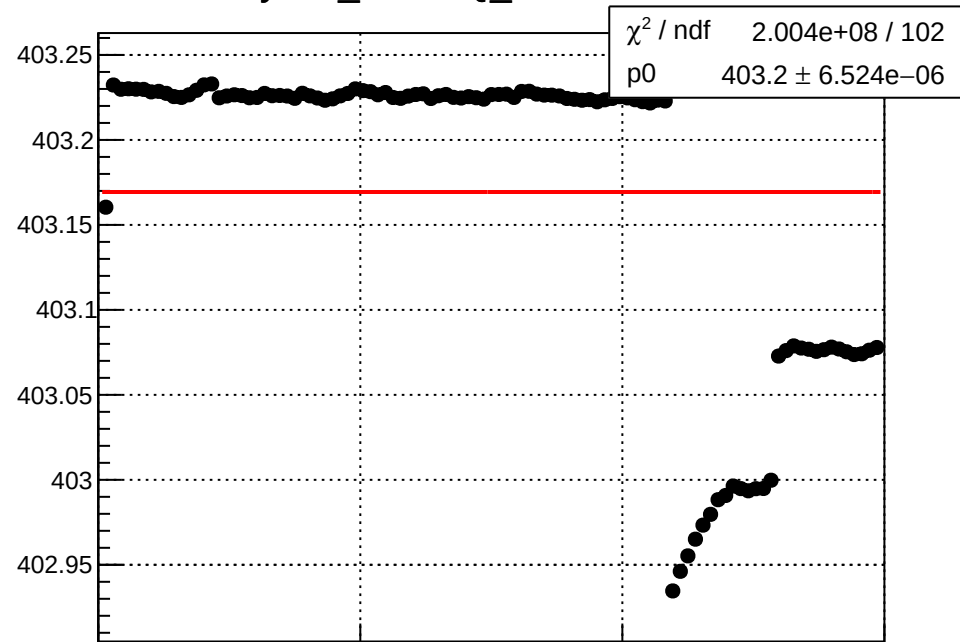
yield_bcm_dg_ds_mean vs run



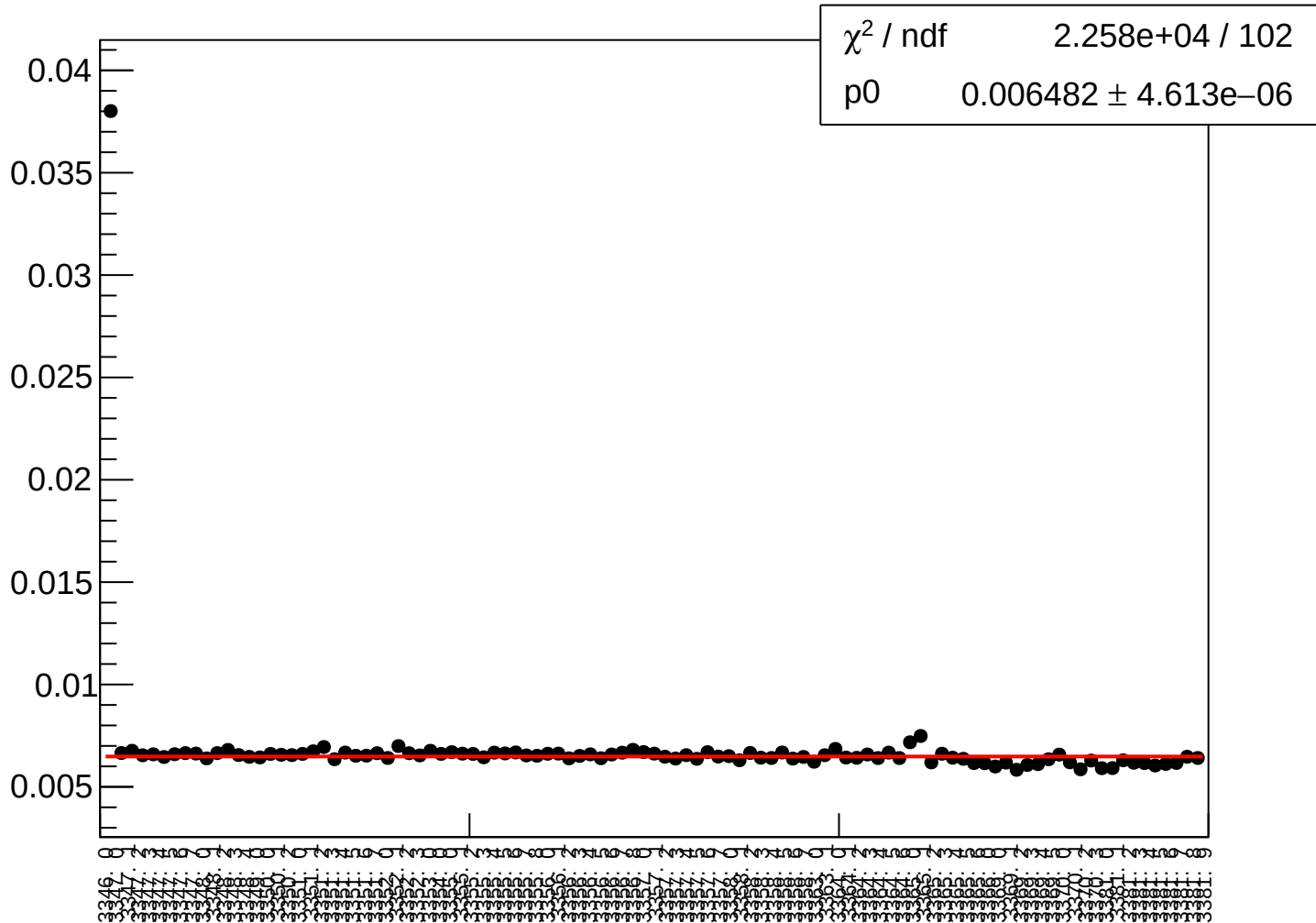
yield_bcm_dg_ds_rms vs run



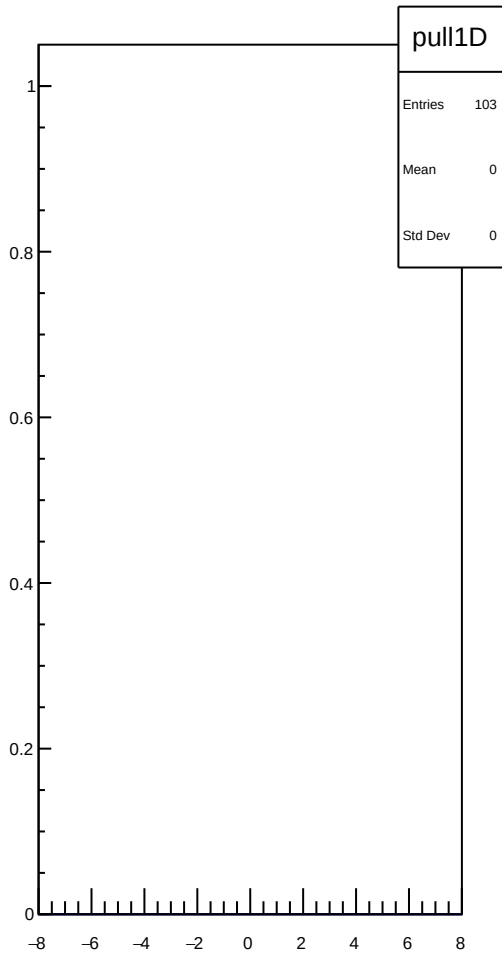
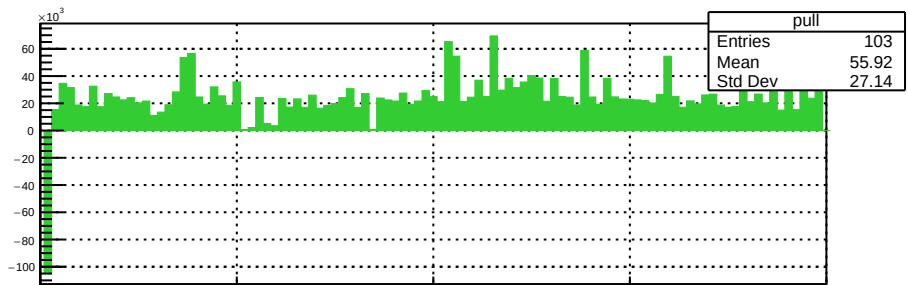
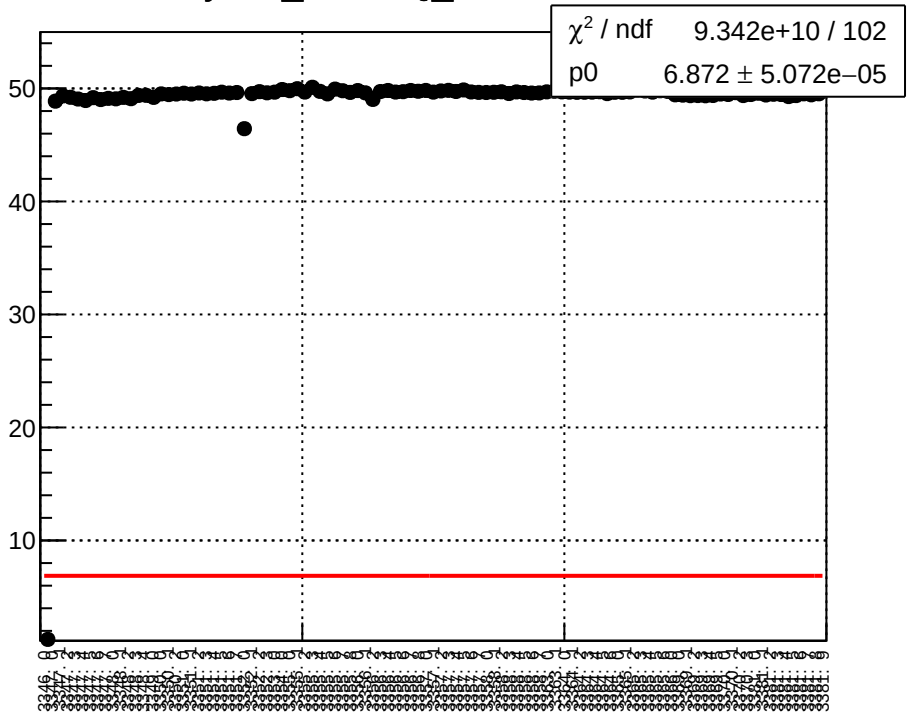
yield_cav4bQ_mean vs run



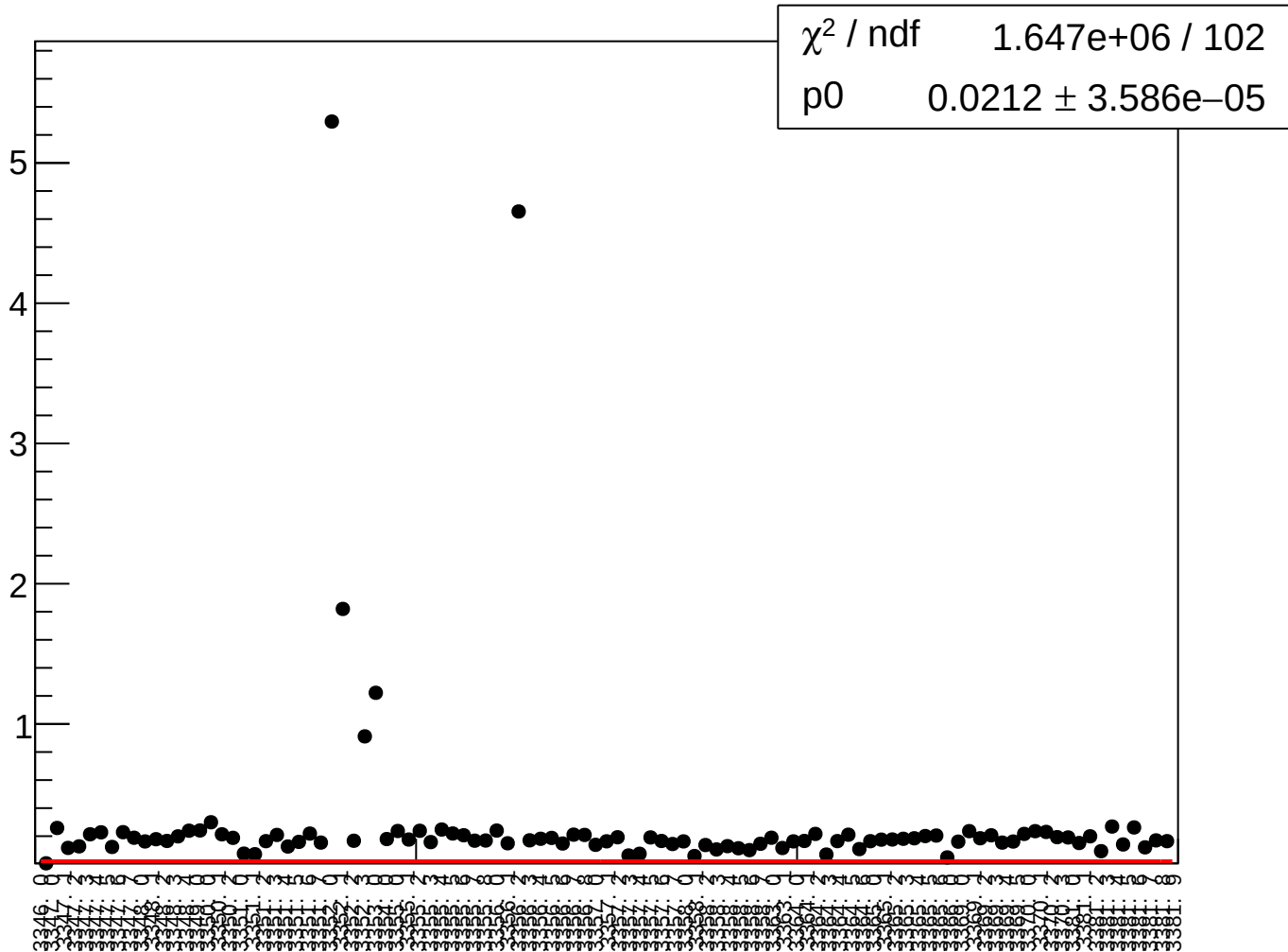
yield_cav4bQ_rms vs run



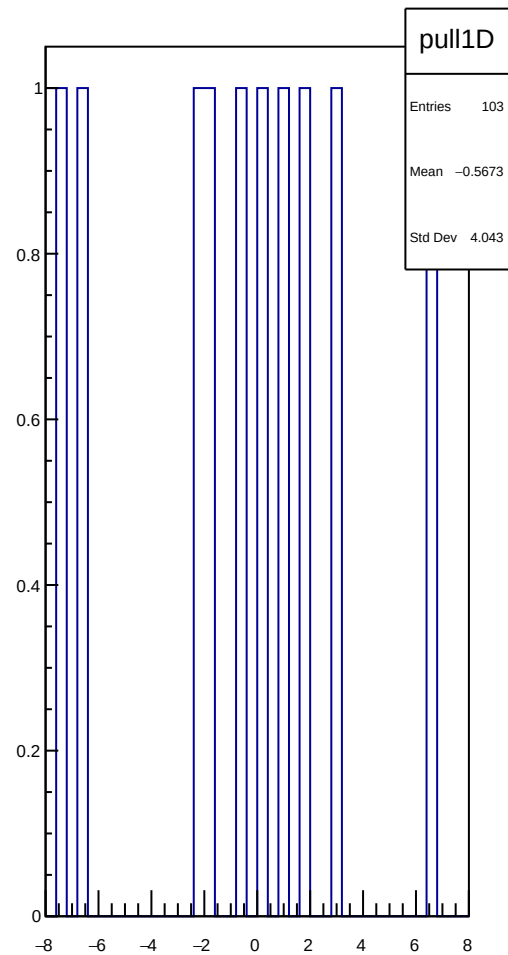
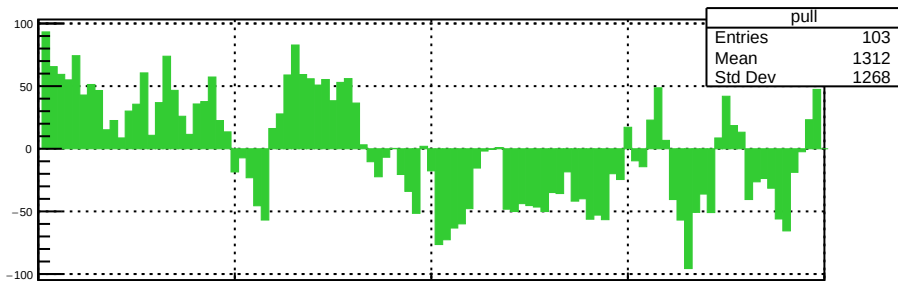
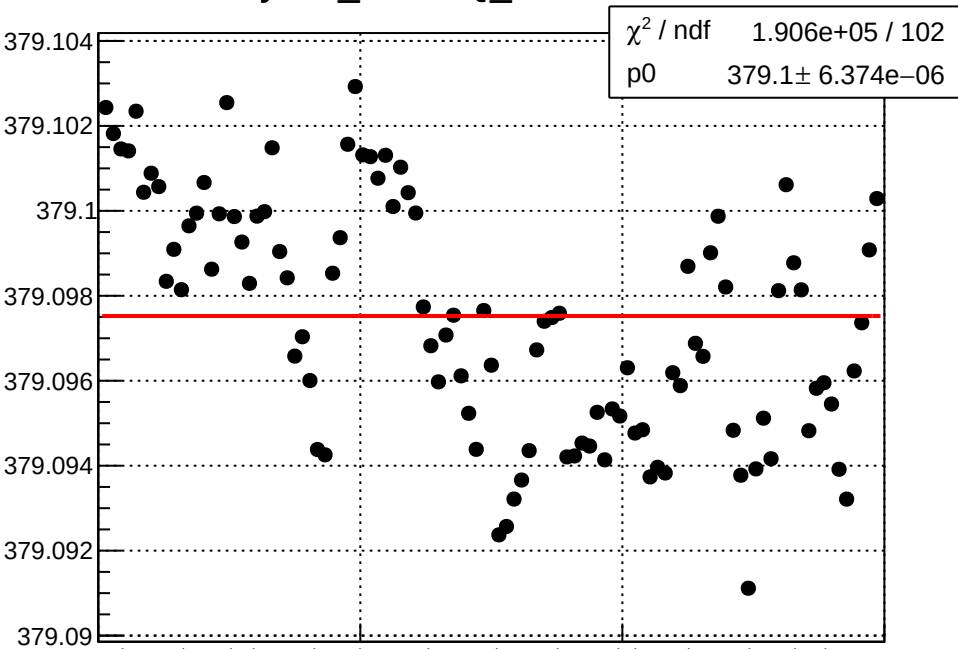
yield_cav4cQ_mean vs run



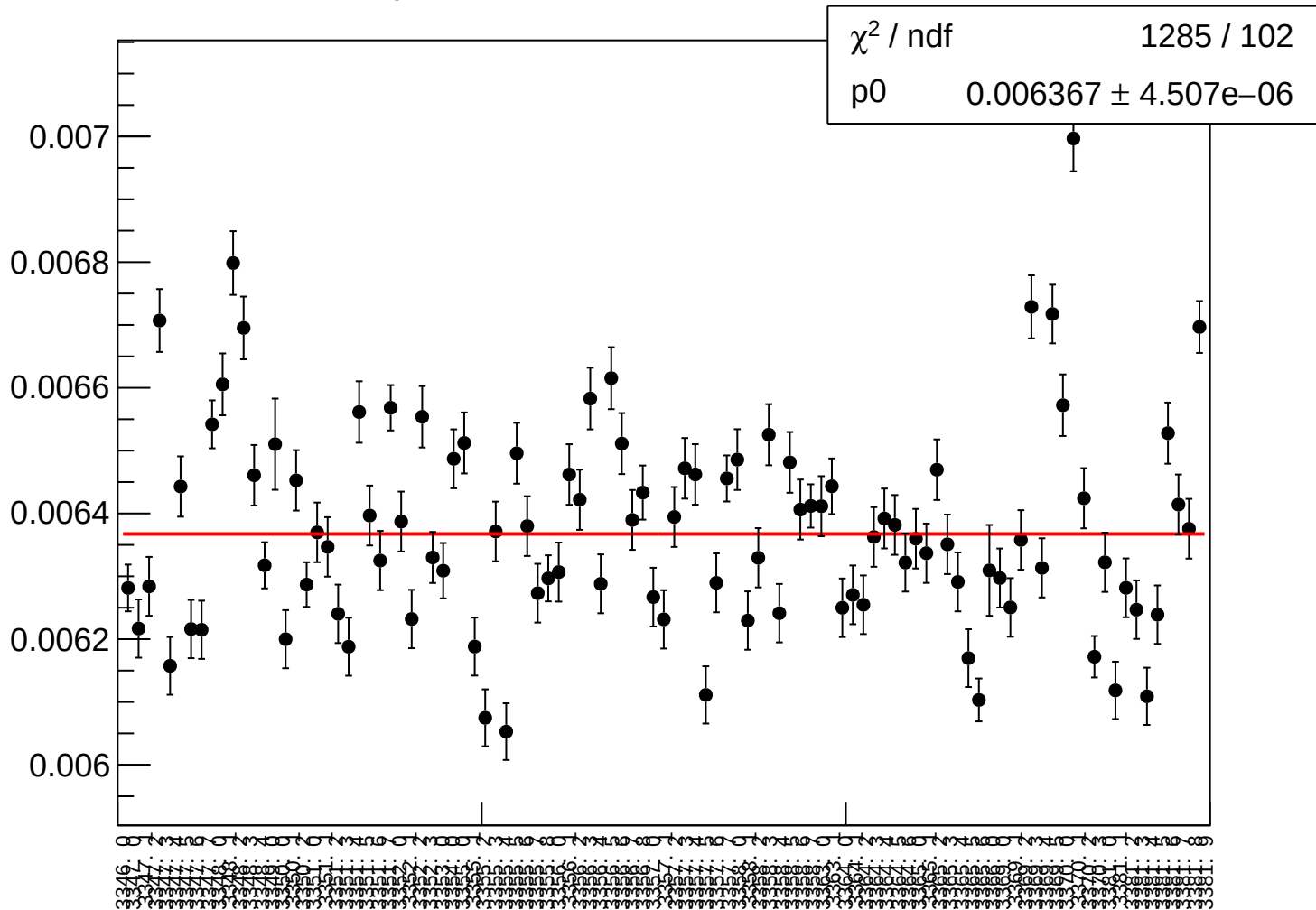
yield_cav4cQ_rms vs run



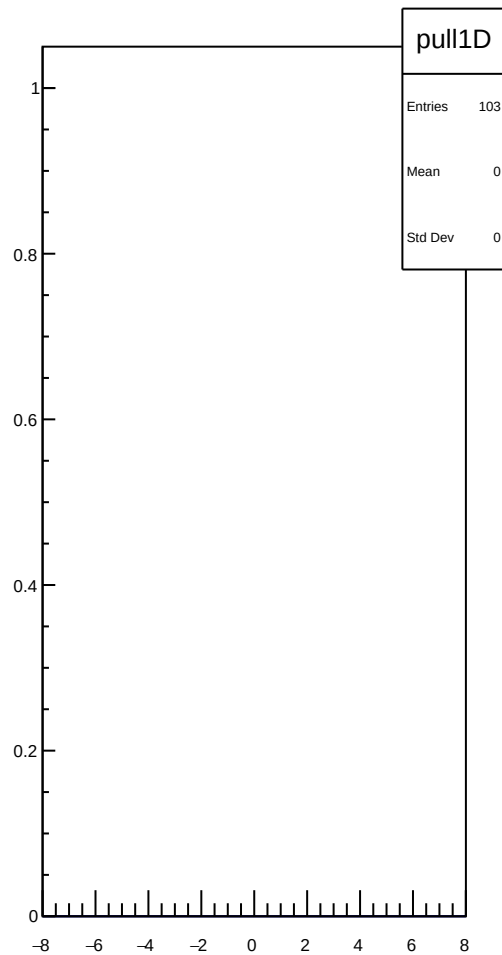
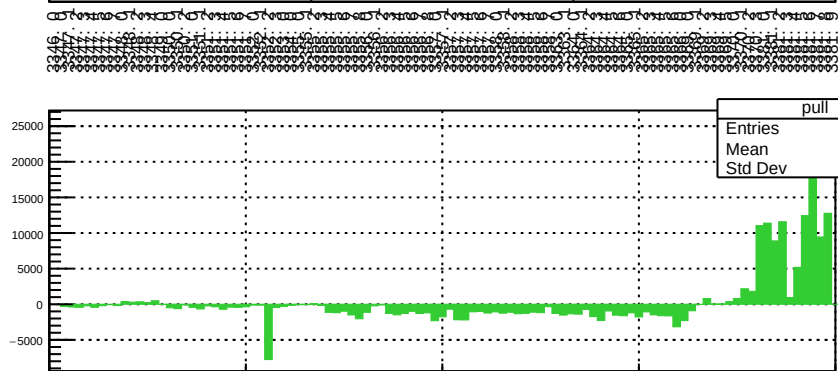
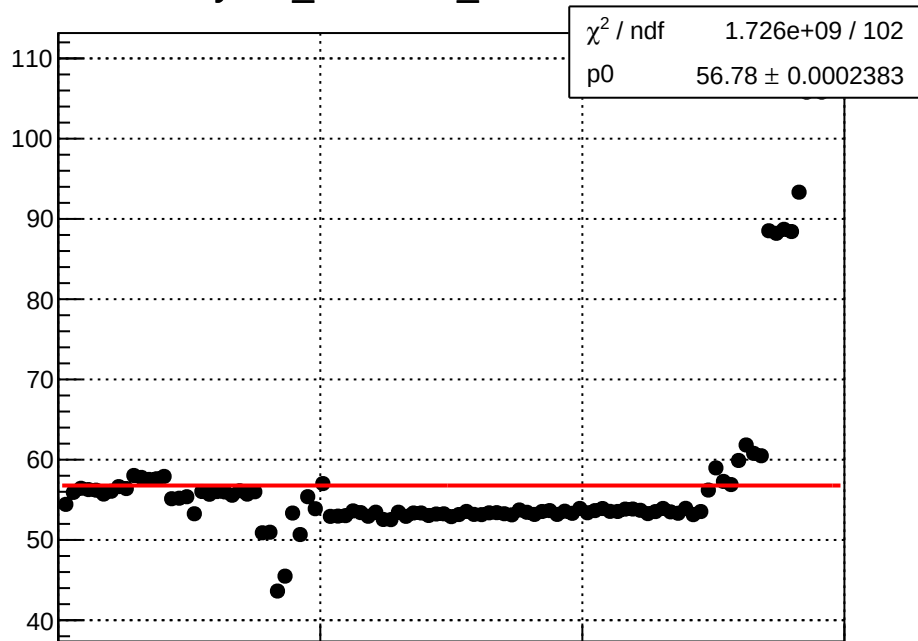
yield_cav4dQ_mean vs run



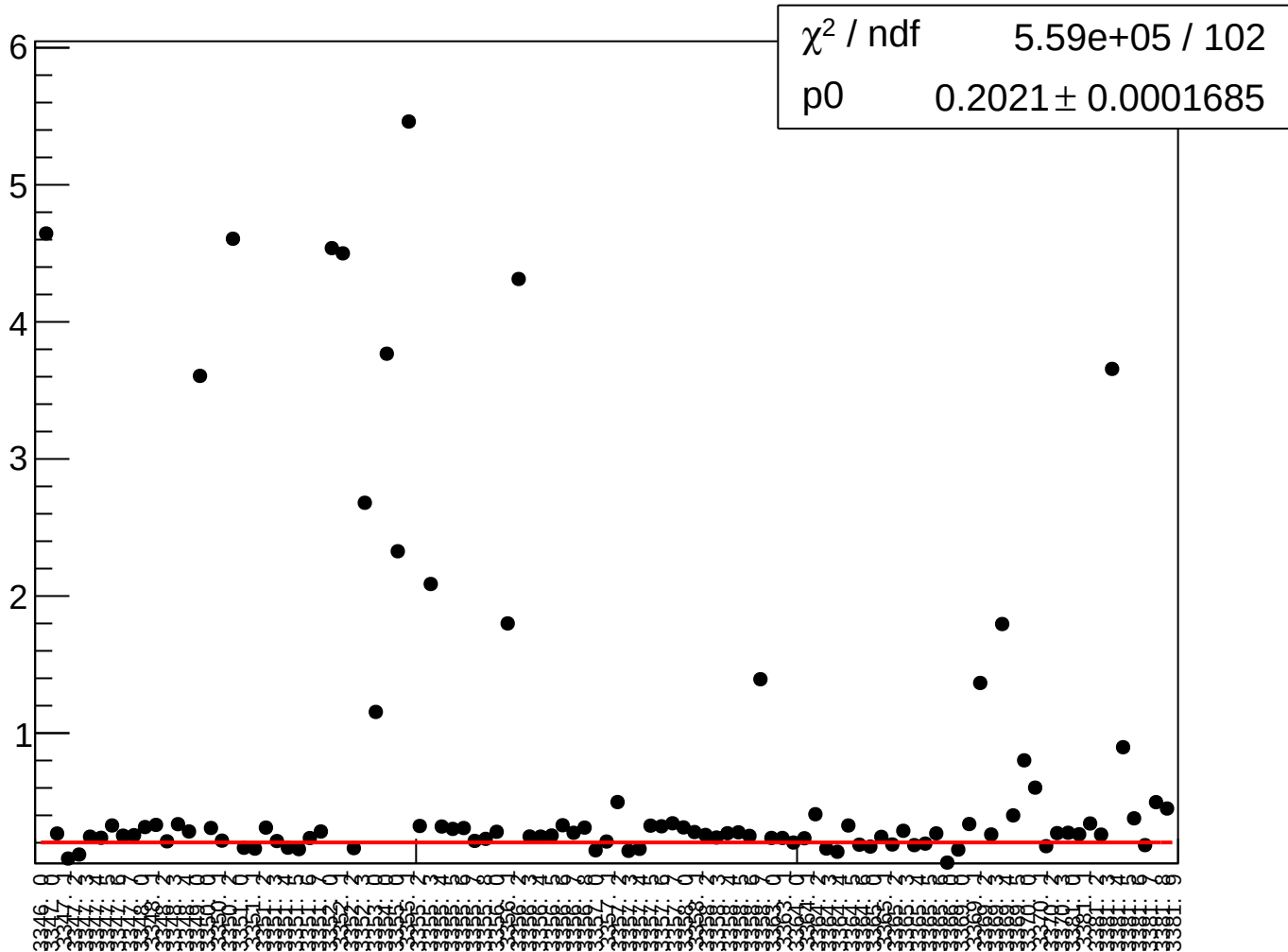
yield_cav4dQ_rms vs run



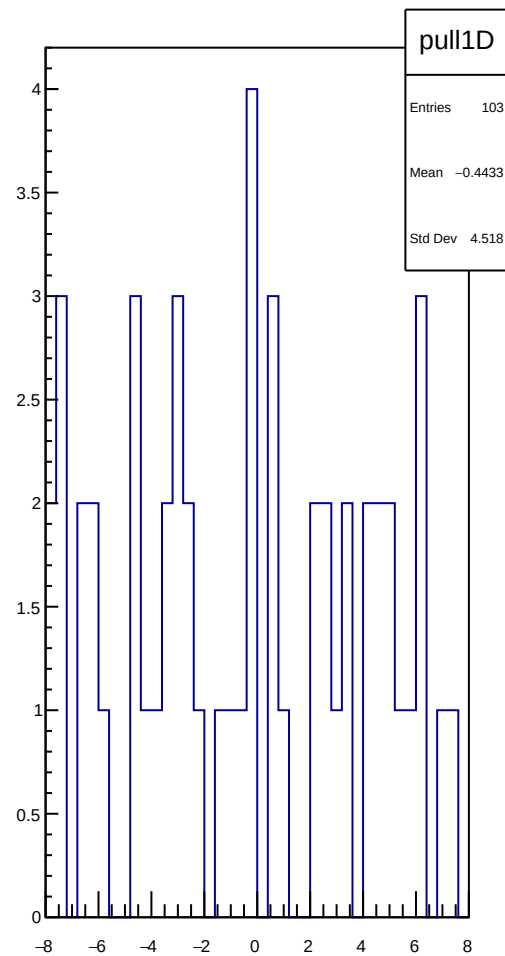
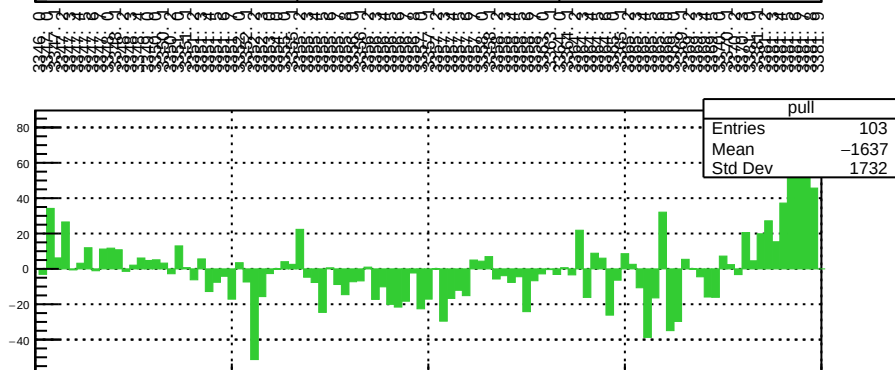
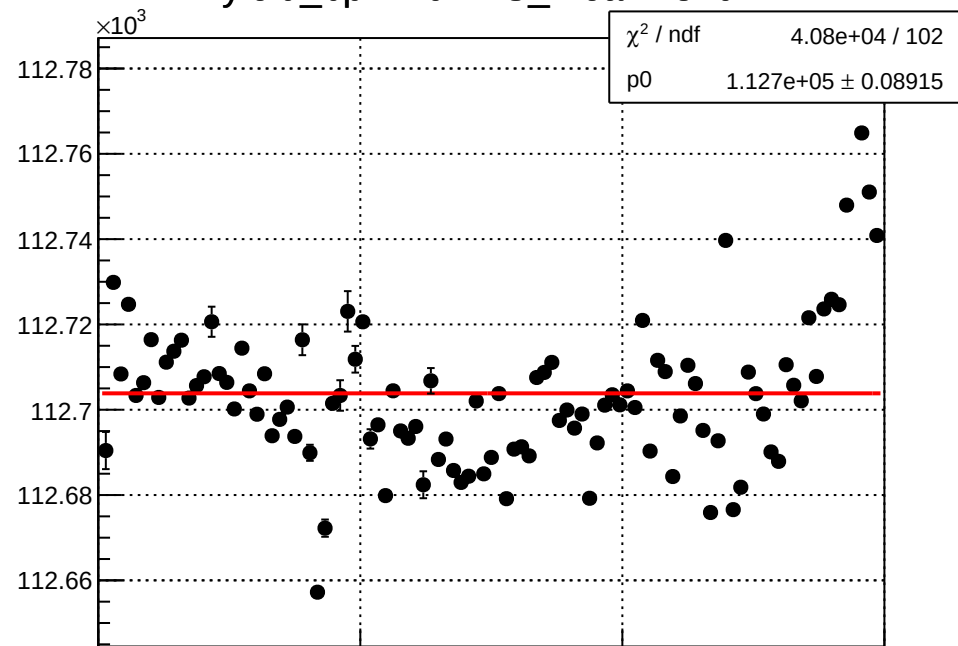
yield_bcm0l02_mean vs run



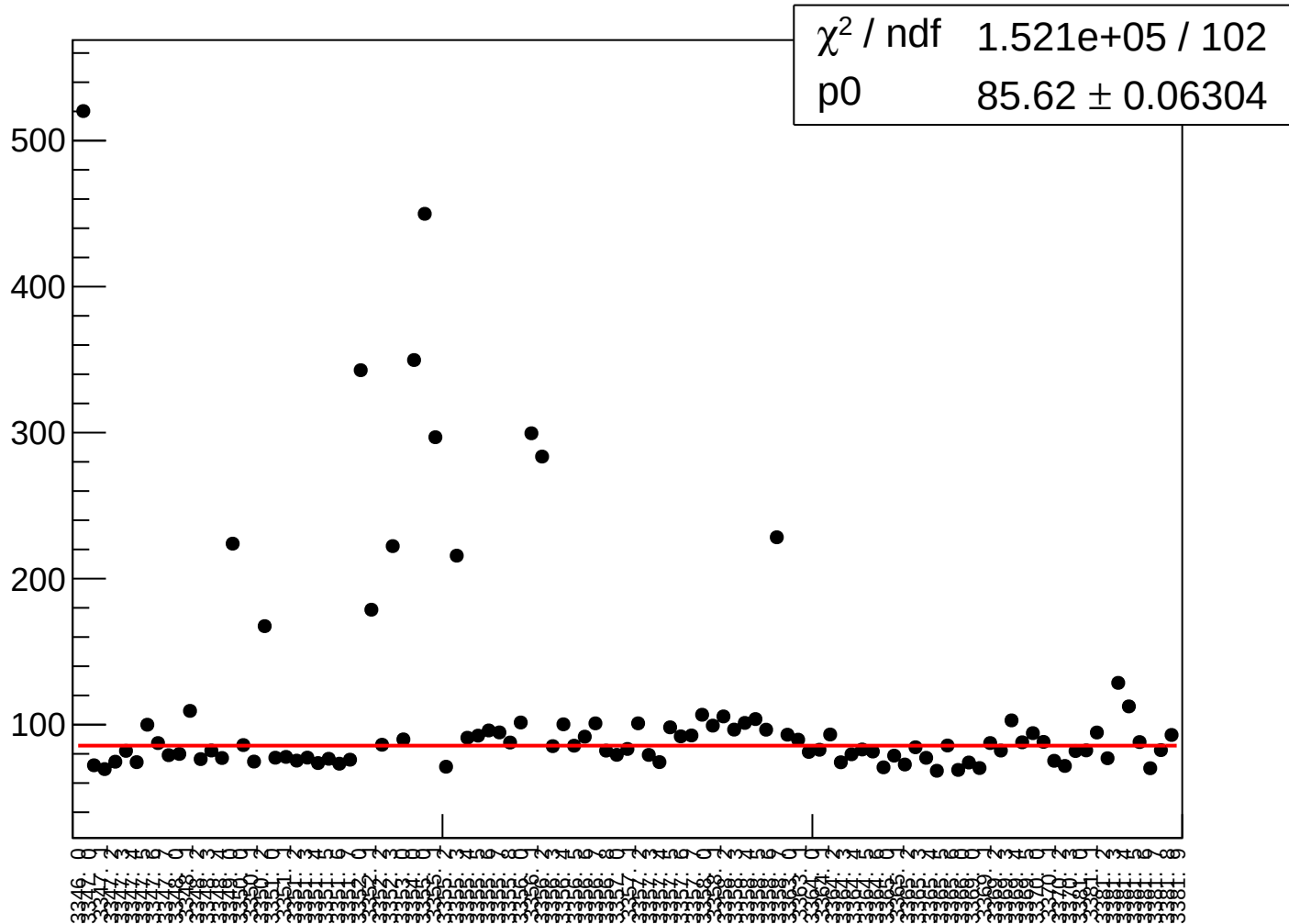
yield_bcm0l02_rms vs run



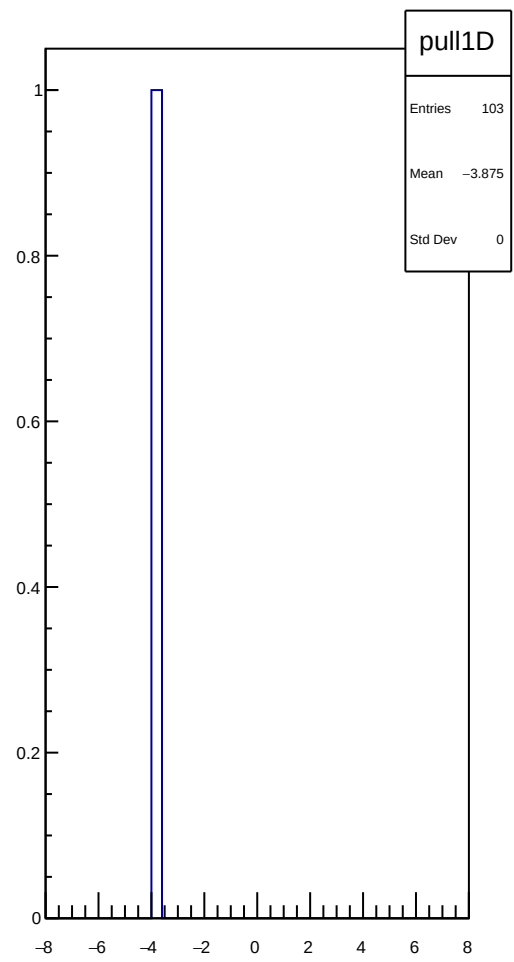
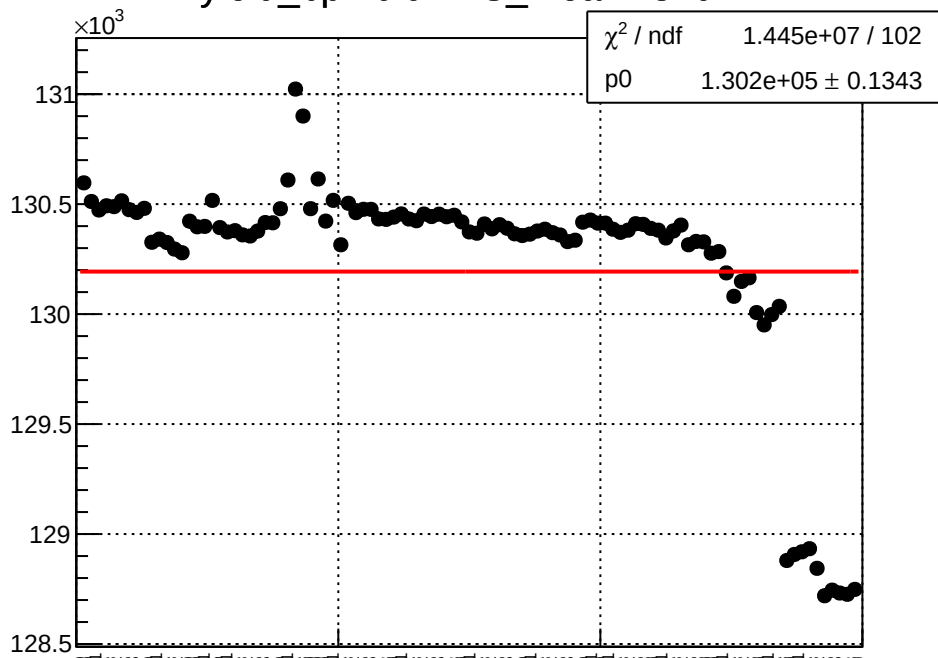
yield_bpm2i01WS_mean vs run



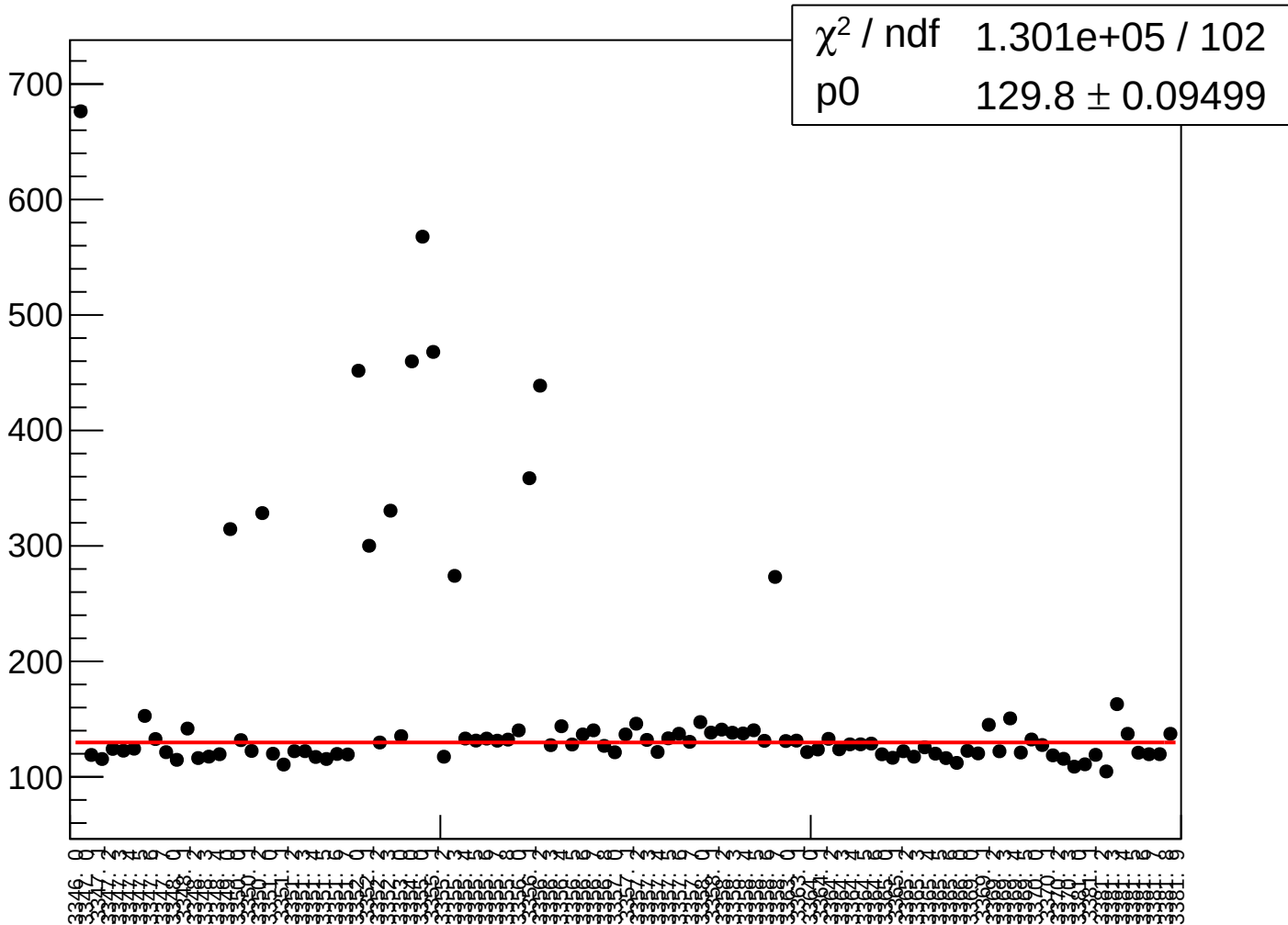
yield_bpm2i01WS_rms vs run



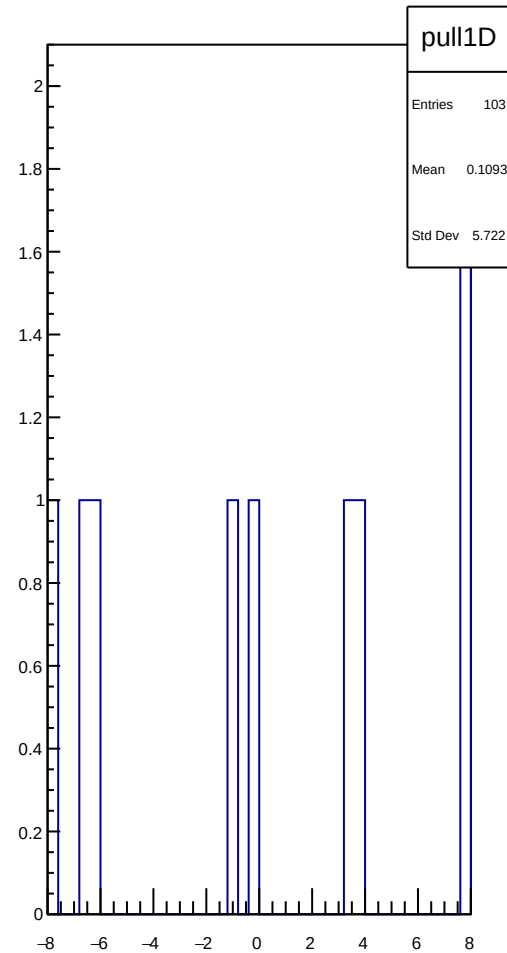
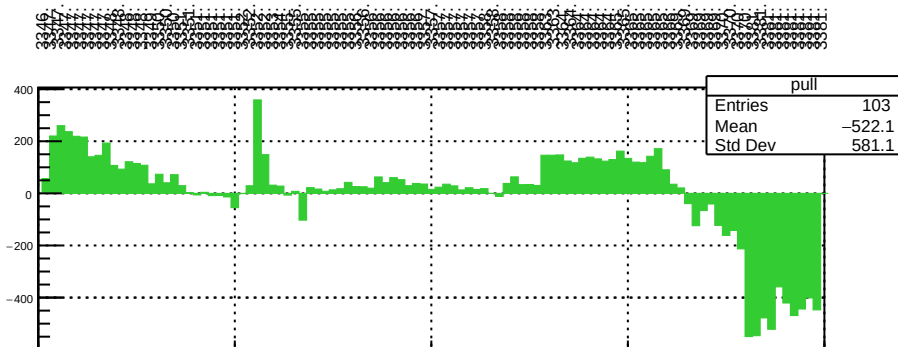
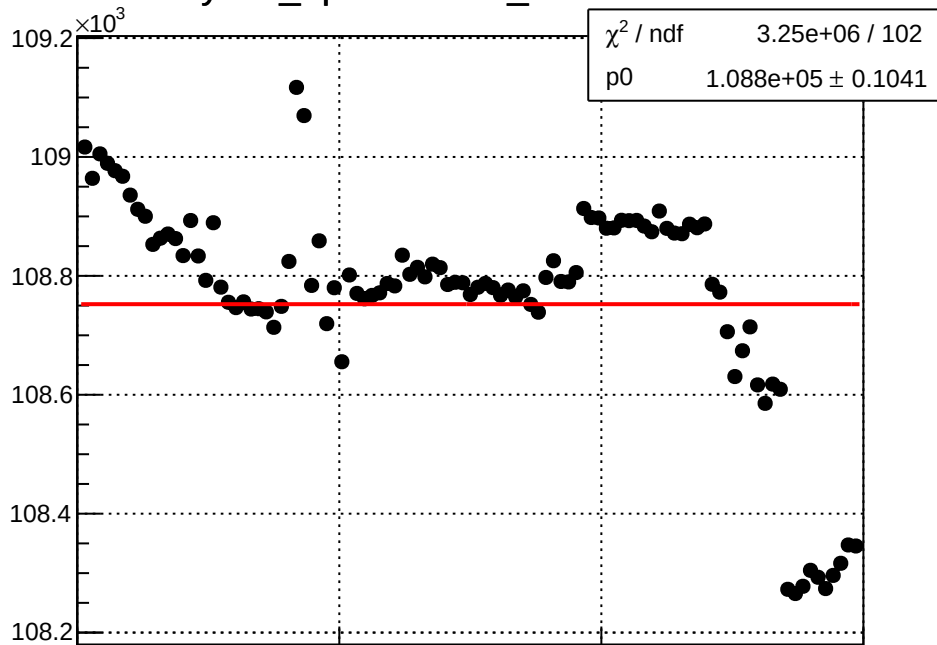
yield_bpm0i07WS_mean vs run



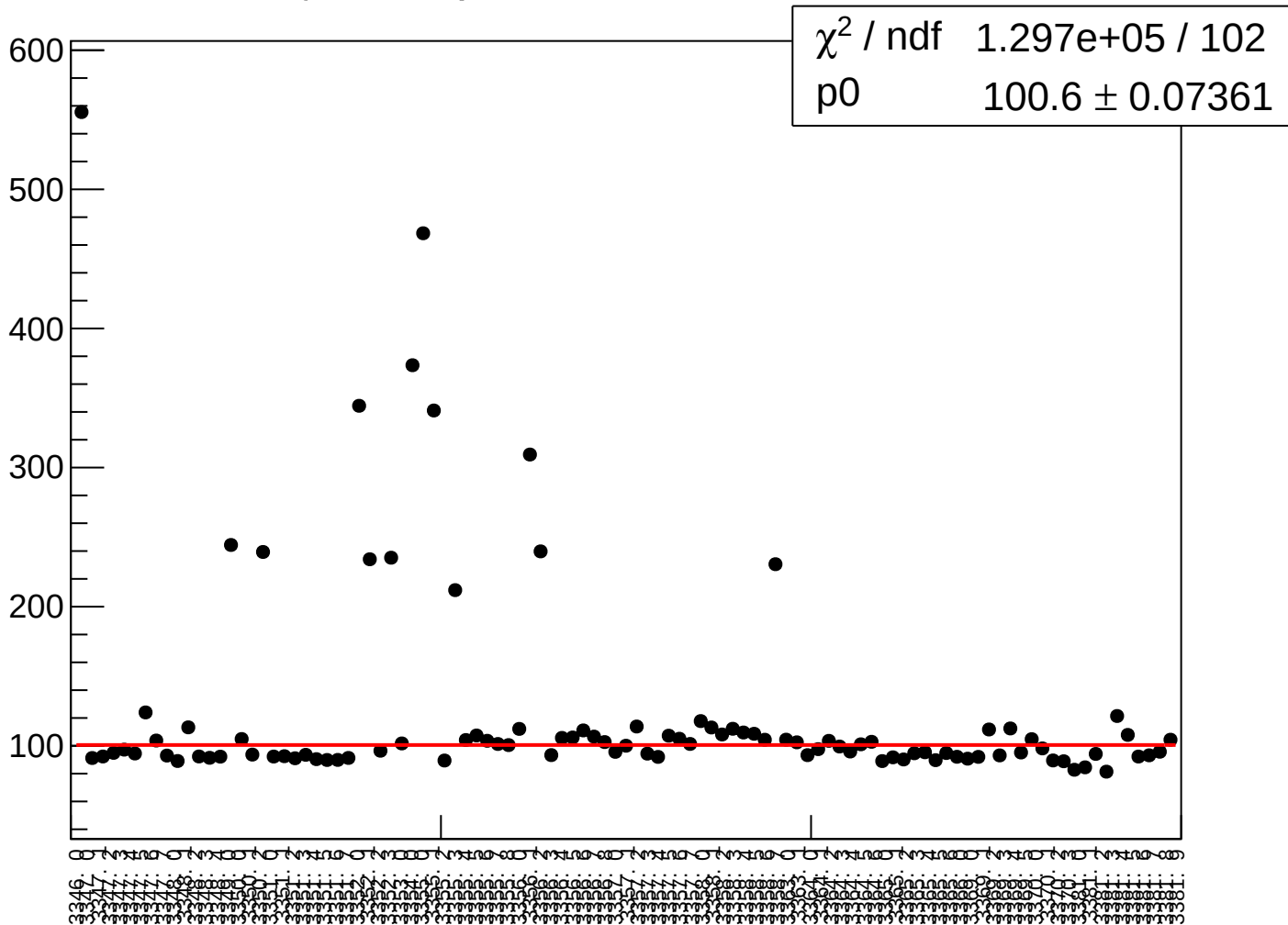
yield_bpm0i07WS_rms vs run



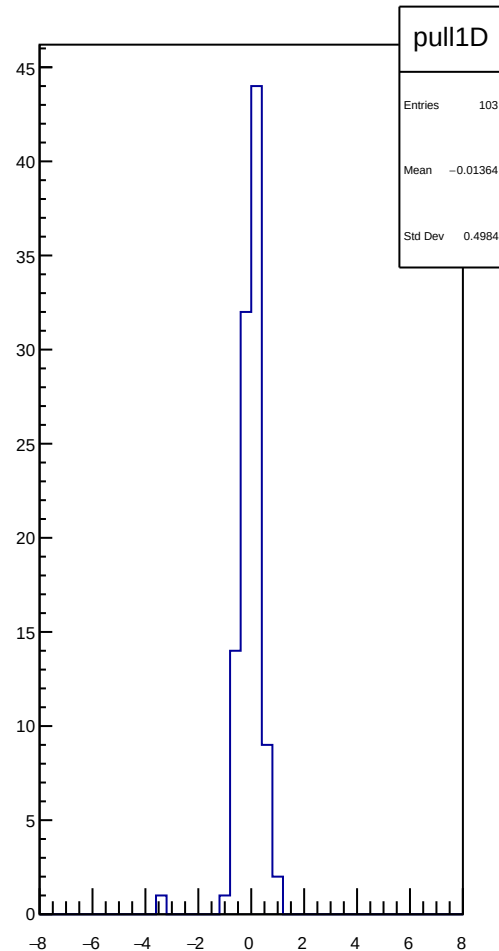
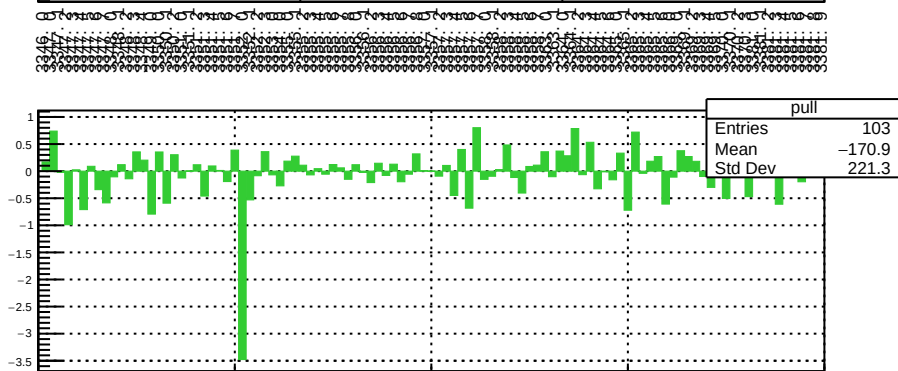
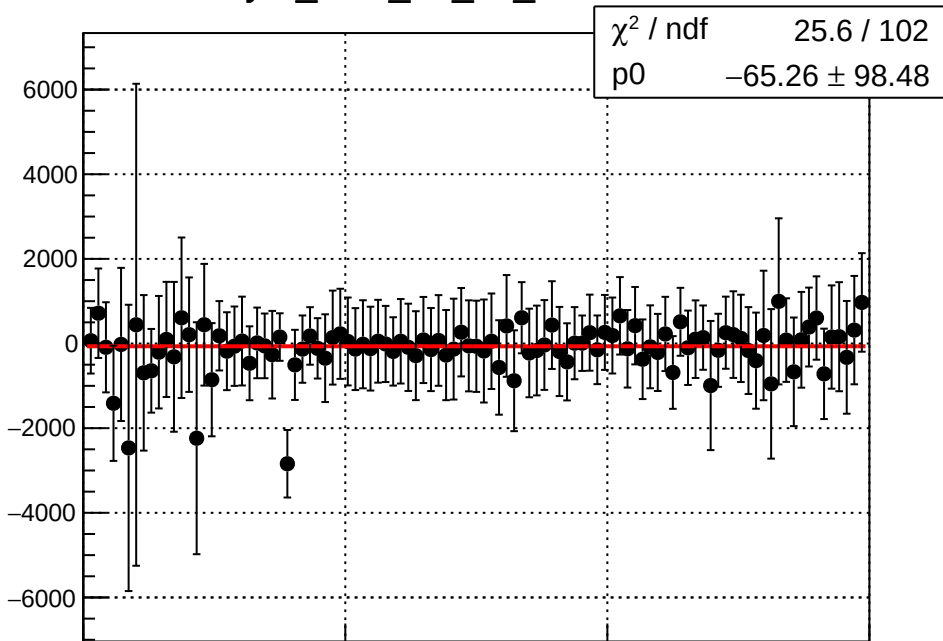
yield_bpm0l01WS_mean vs run



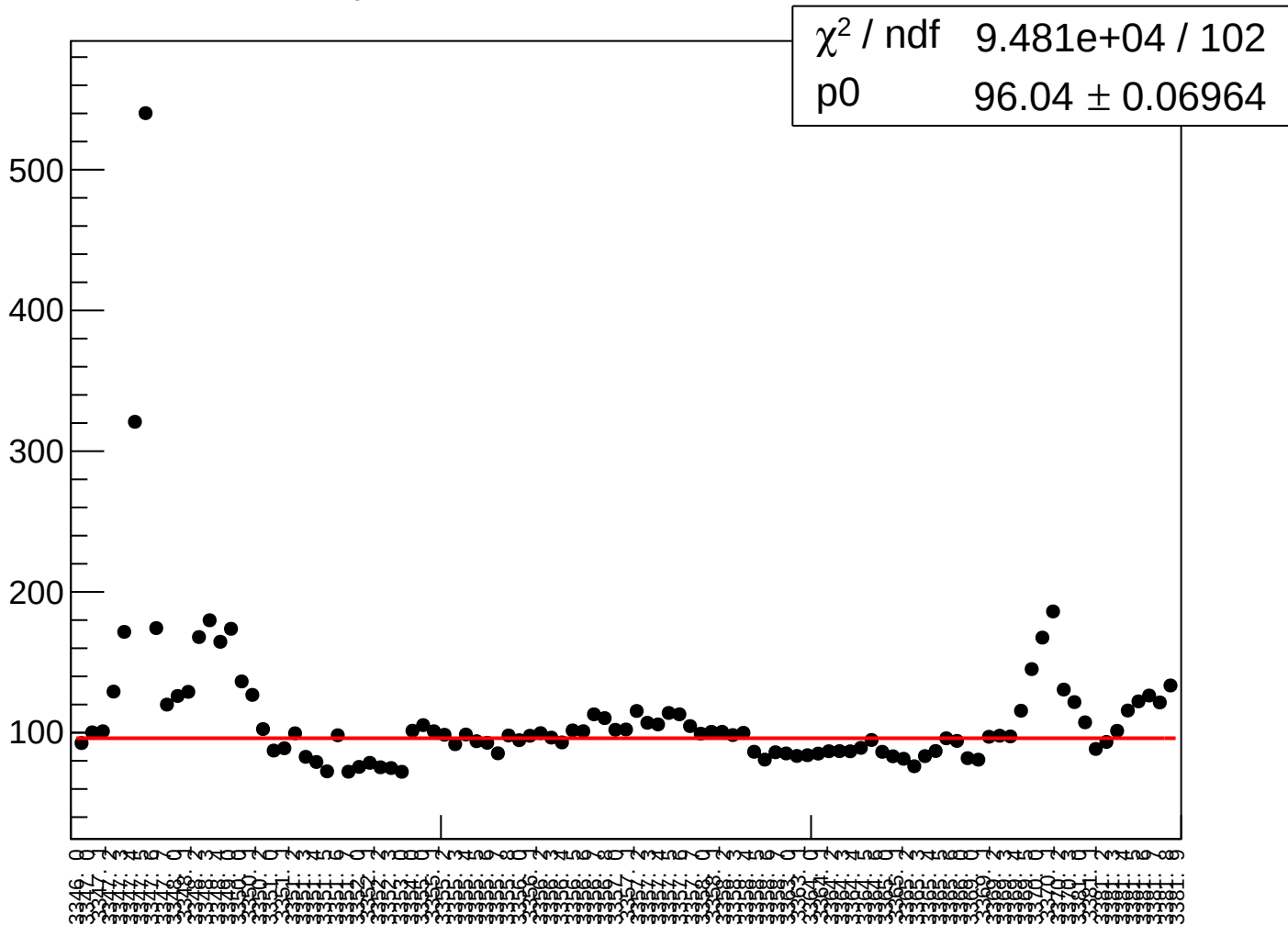
yield_bpm0l01WS_rms vs run



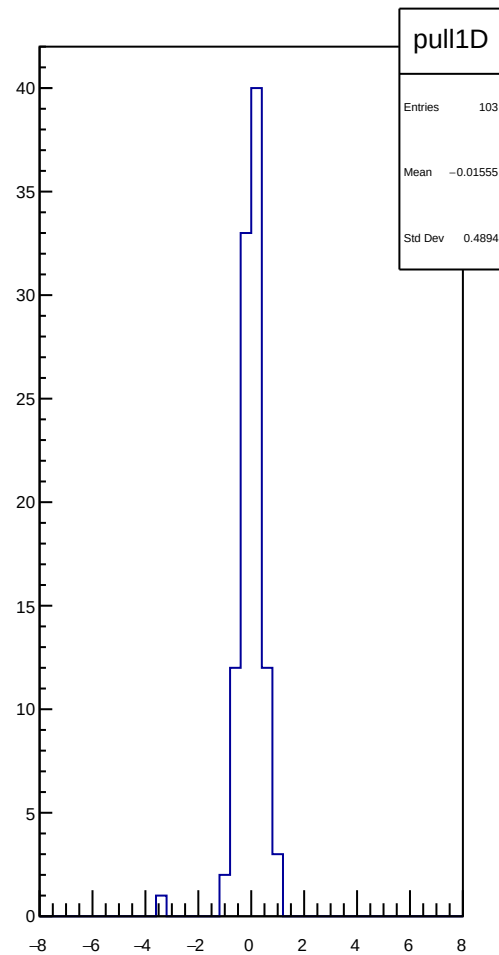
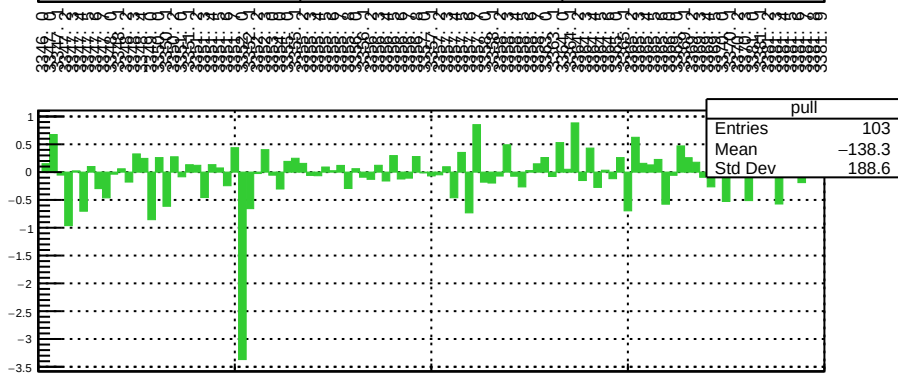
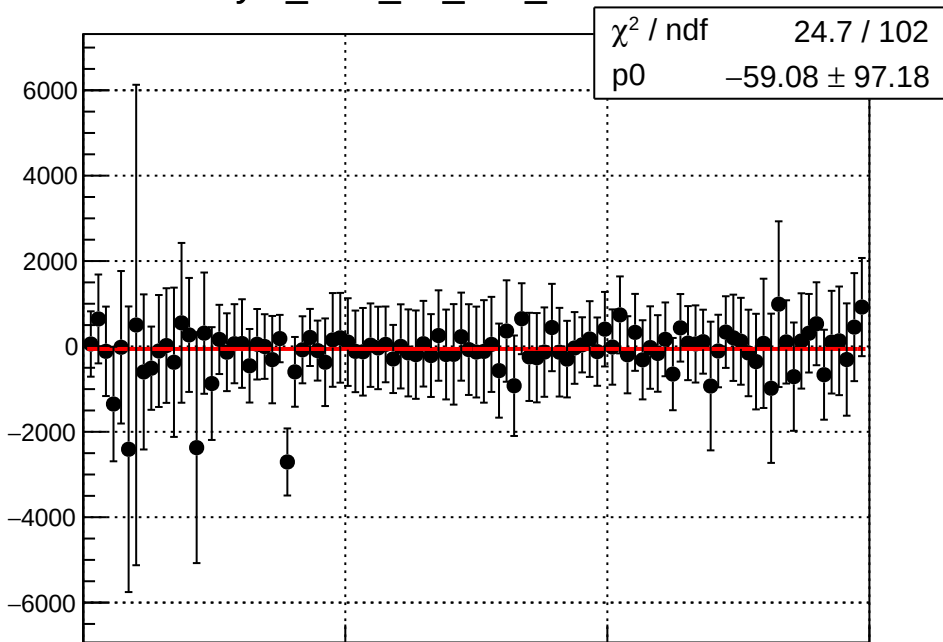
asym_bcm_an_ds_mean vs run



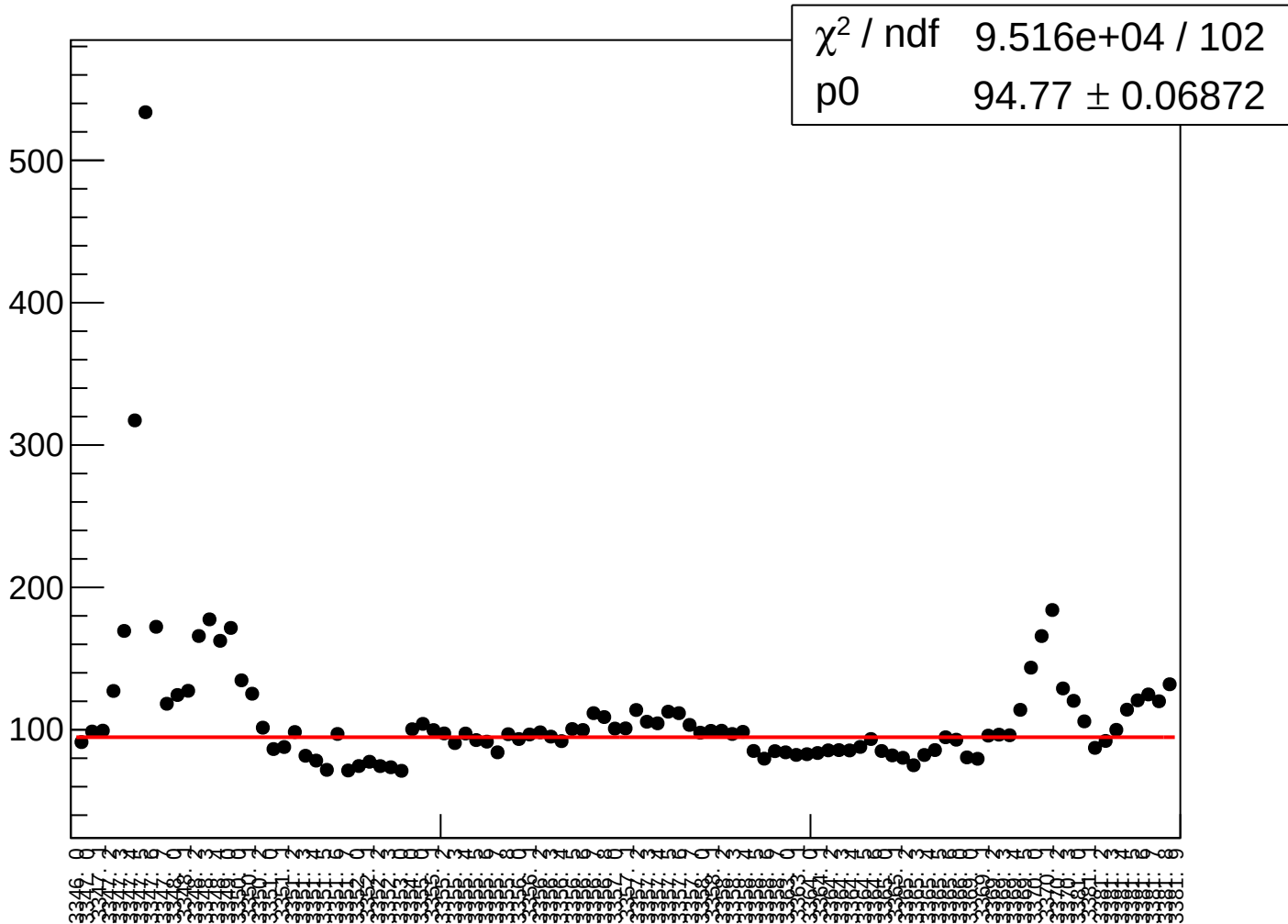
asym_bcm_an_ds_rms vs run



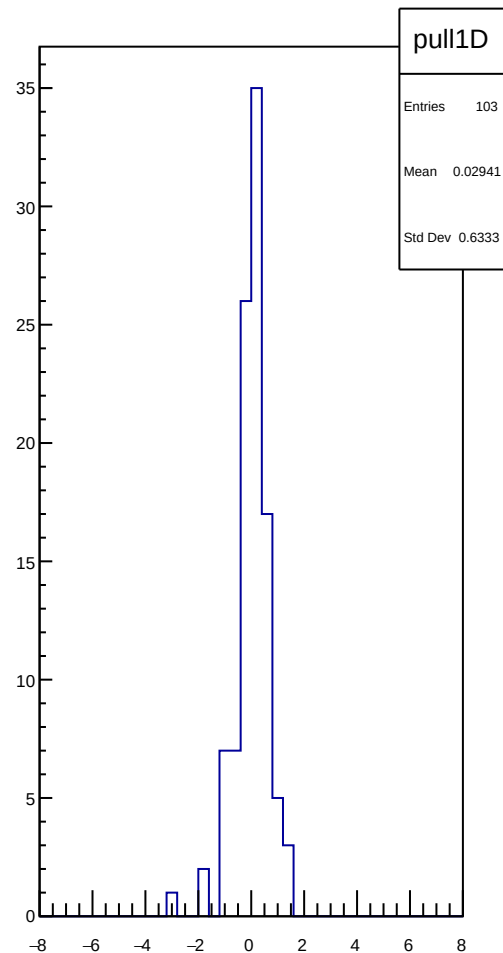
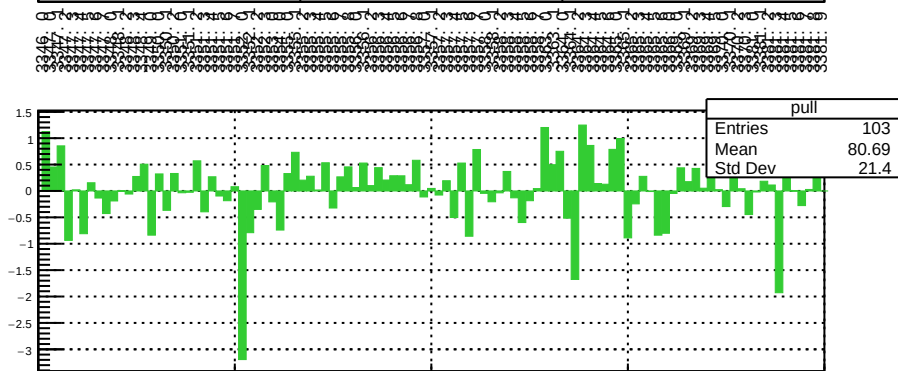
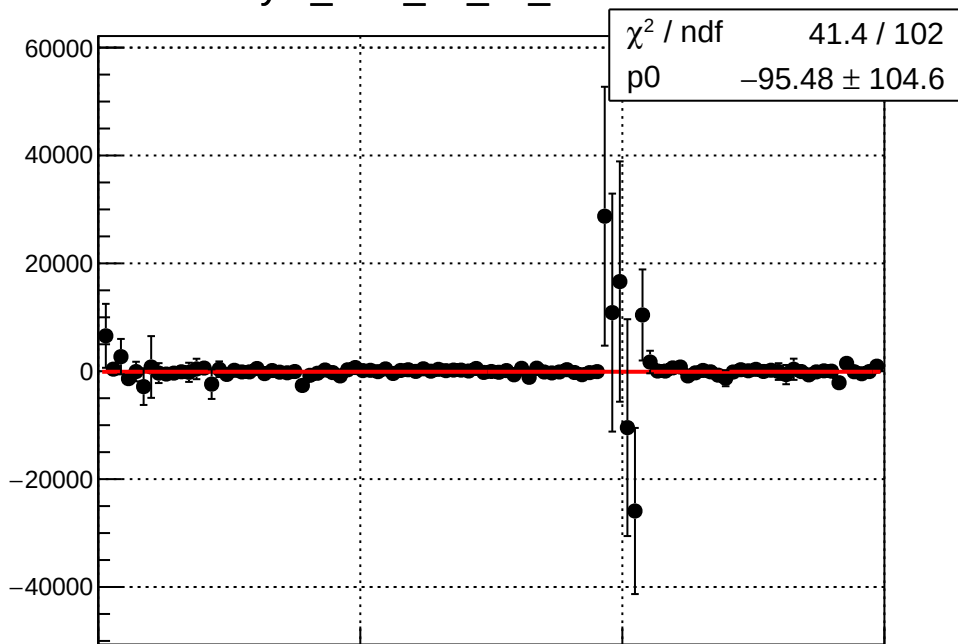
asym_bcm_an_ds3_mean vs run



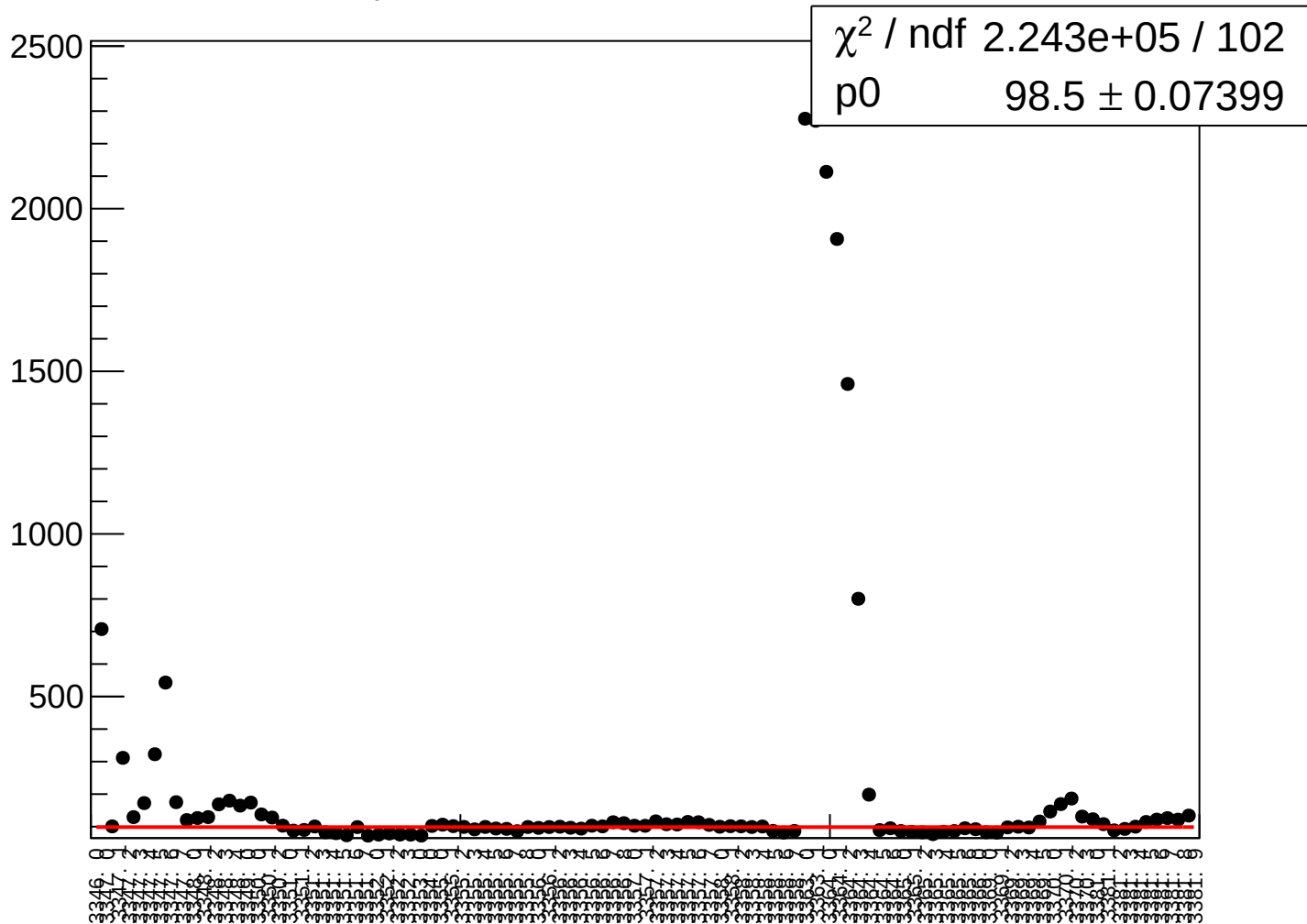
asym_bcm_an_ds3_rms vs run



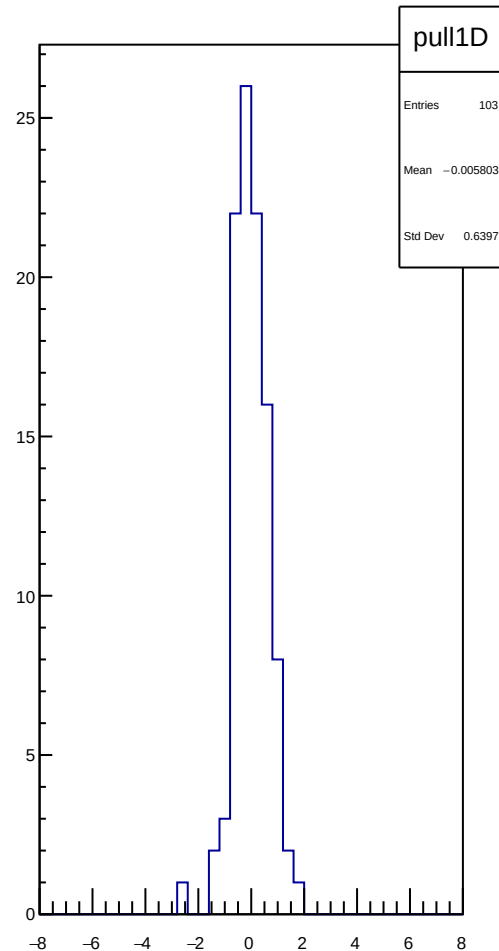
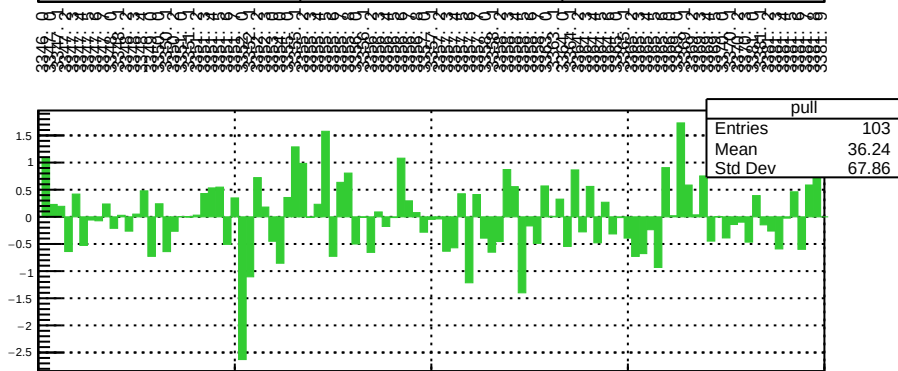
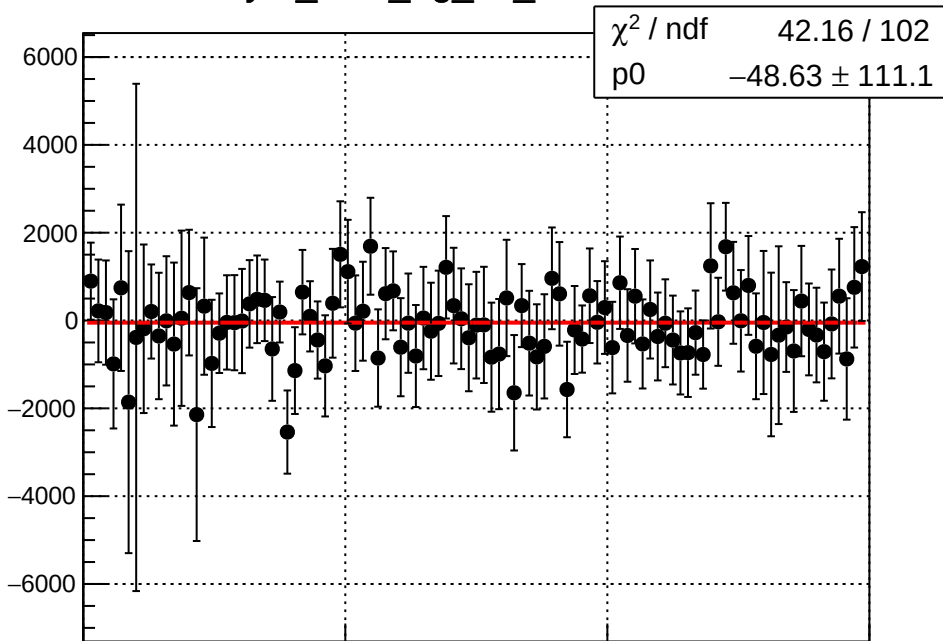
asym_bcm_an_us_mean vs run



asym_bcm_an_us_rms vs run

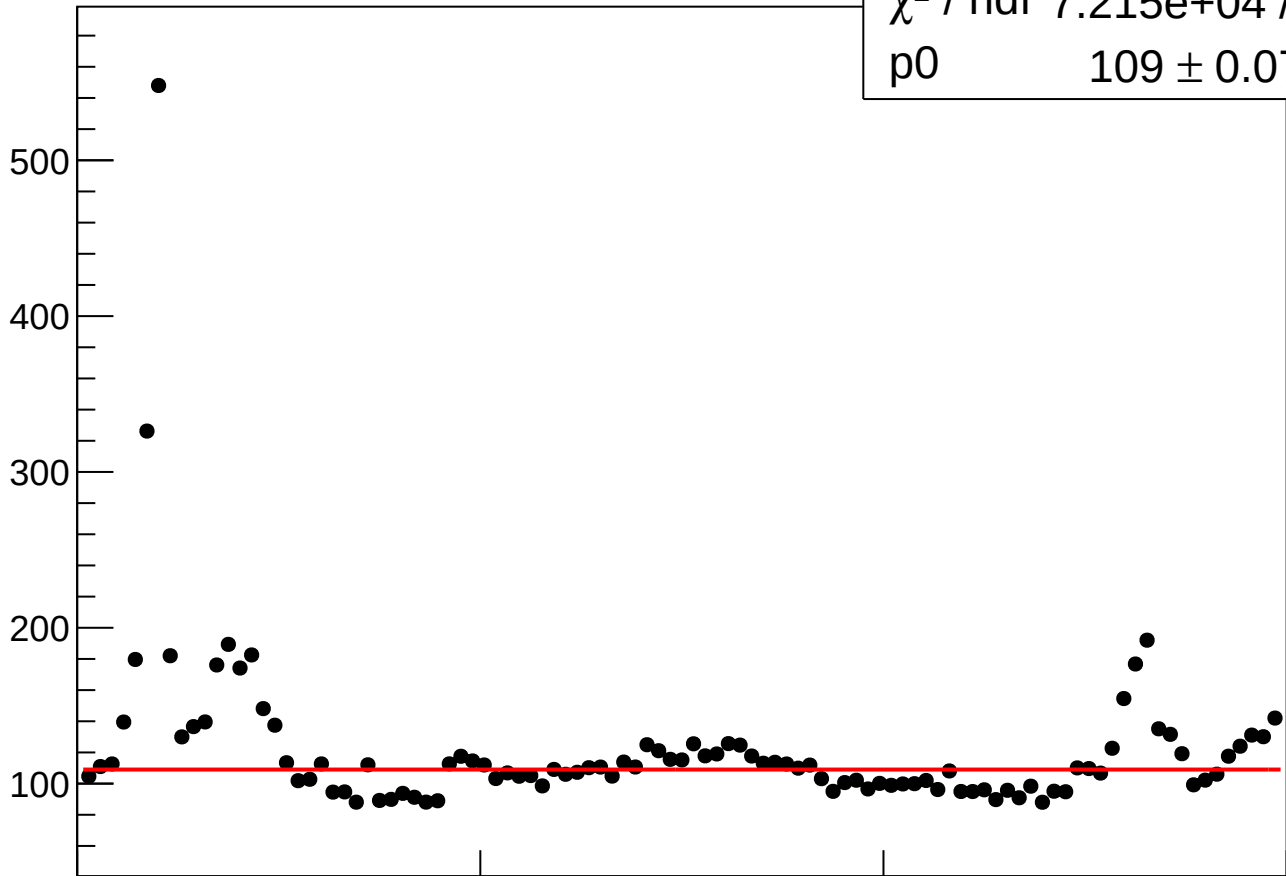


asym_bcm_dg_us_mean vs run

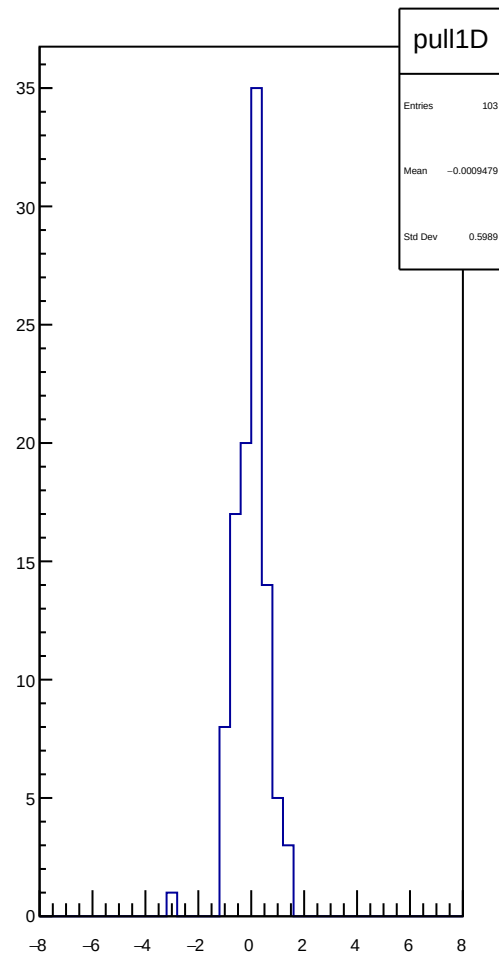
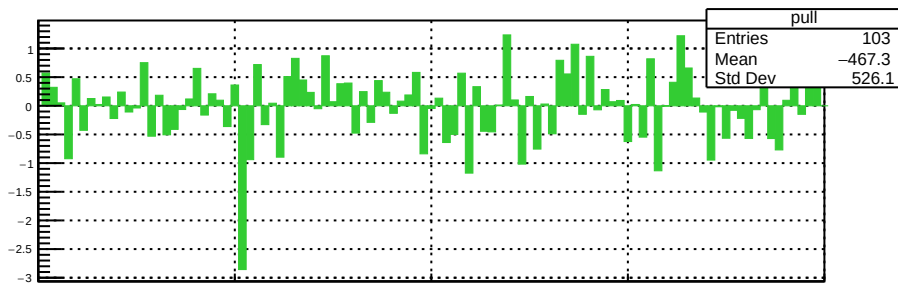
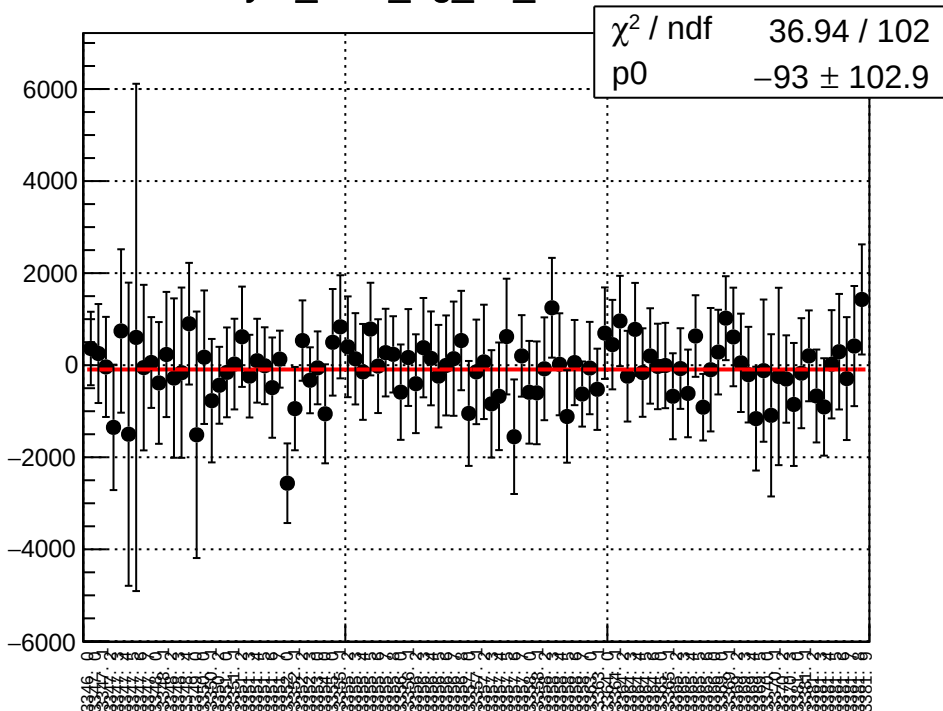


asym_bcm_dg_us_rms vs run

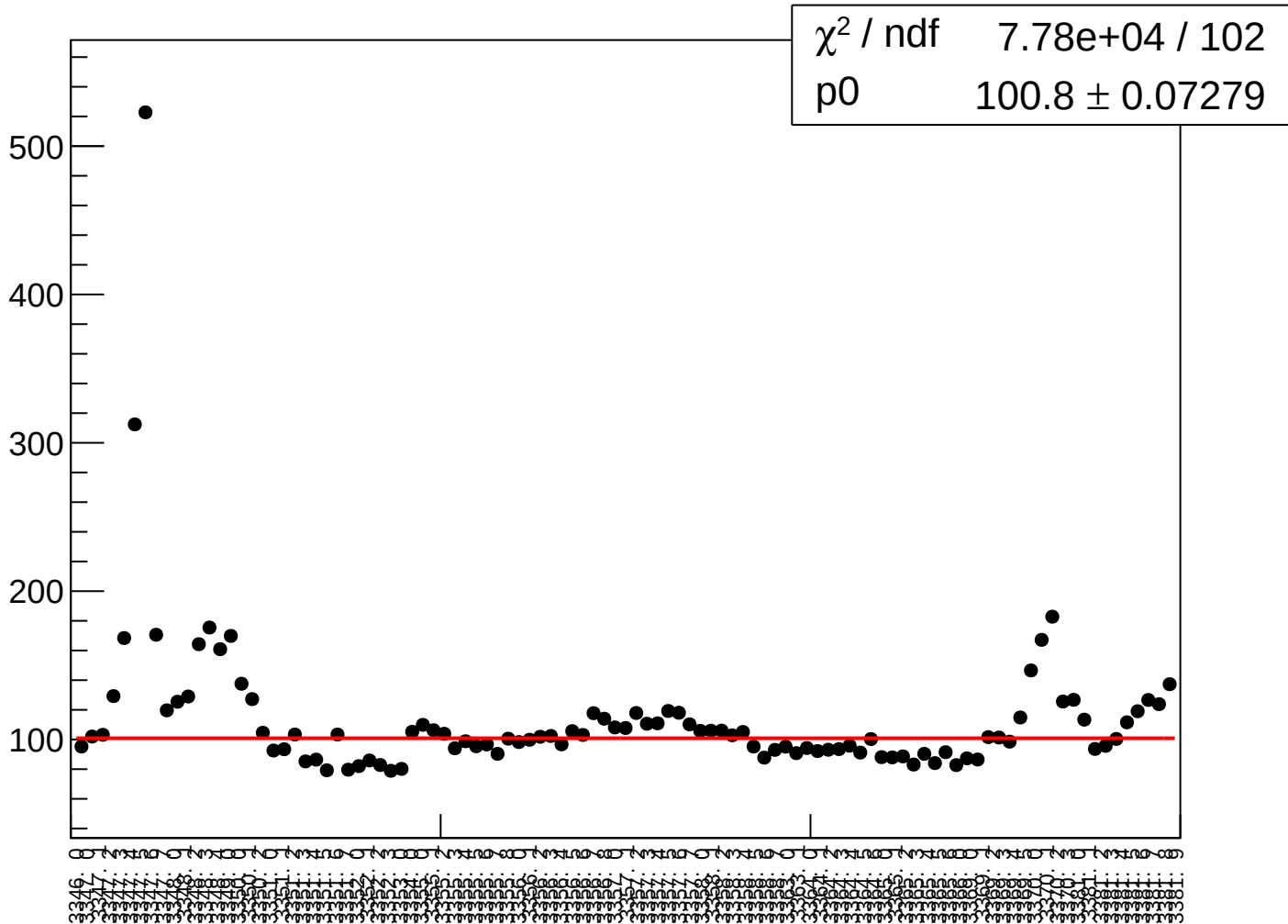
χ^2 / ndf 7.215e+04 / 102
p0 109 ± 0.07858



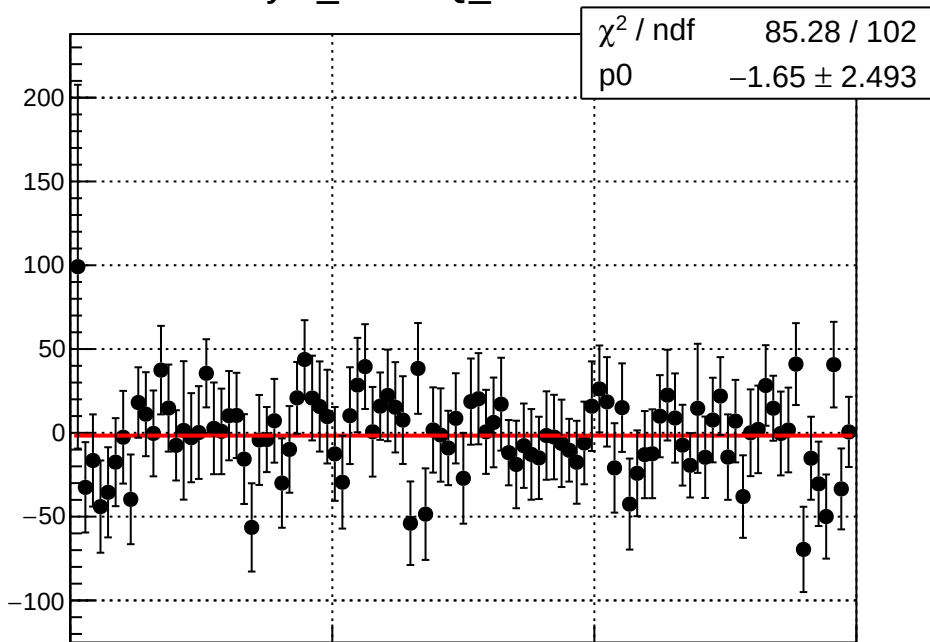
asym_bcm_dg_ds_mean vs run



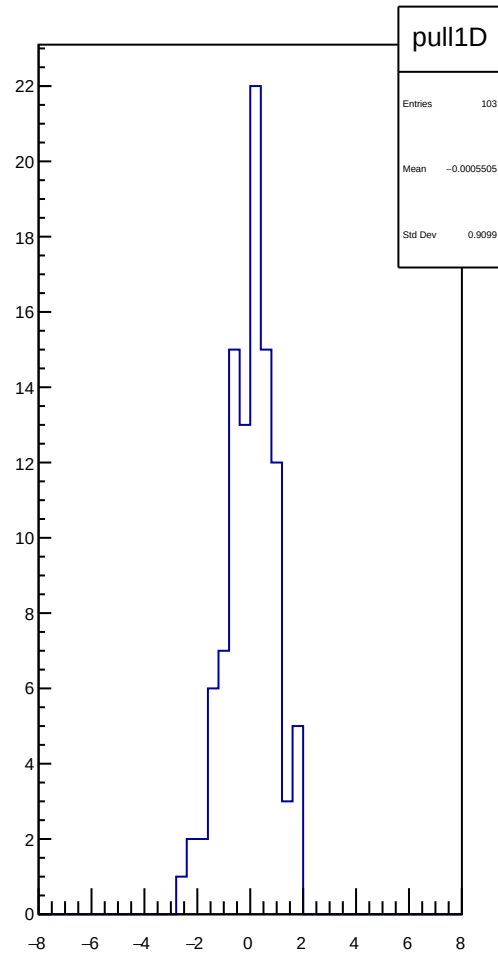
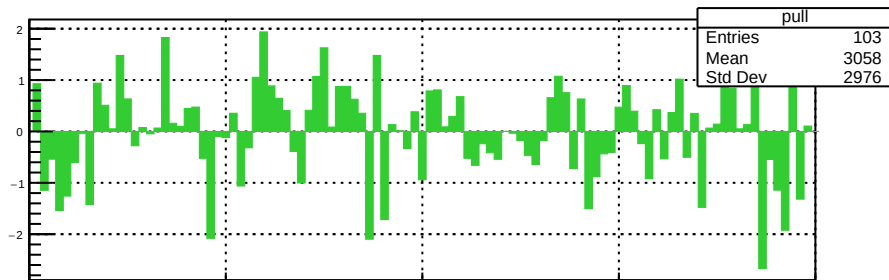
asym_bcm_dg_ds_rms vs run



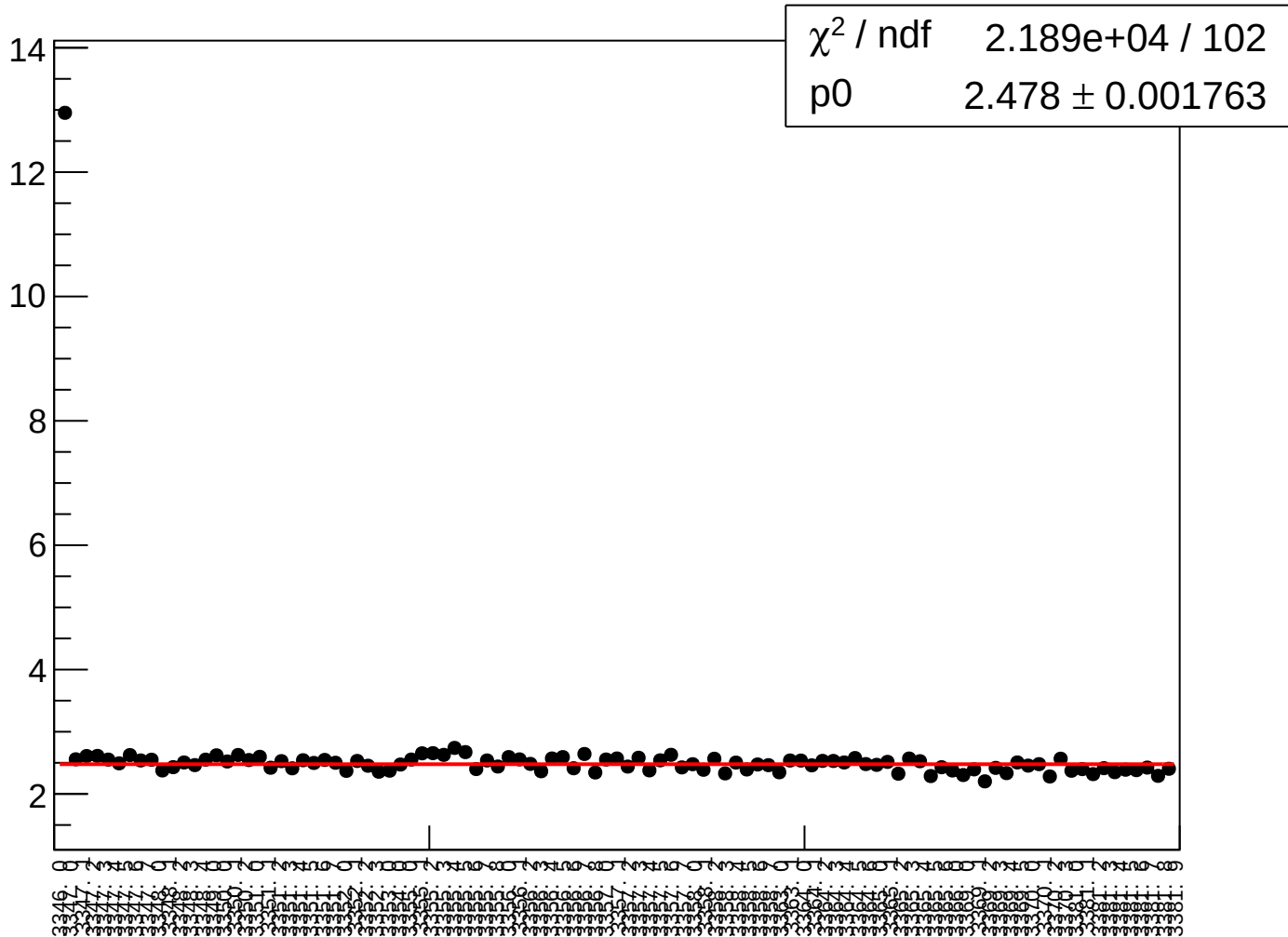
asym_cav4bQ_mean vs run



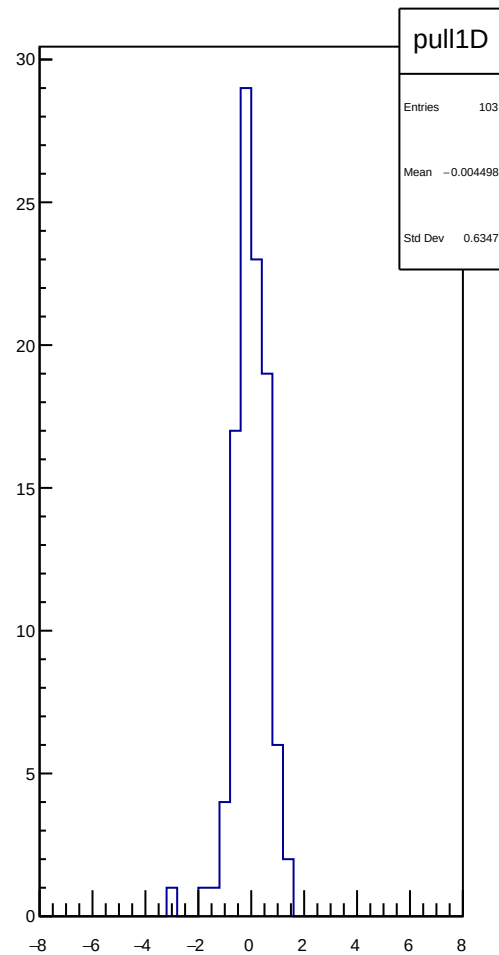
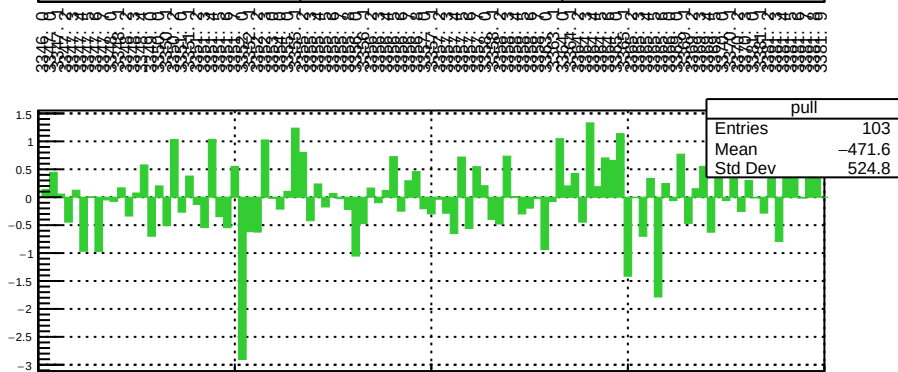
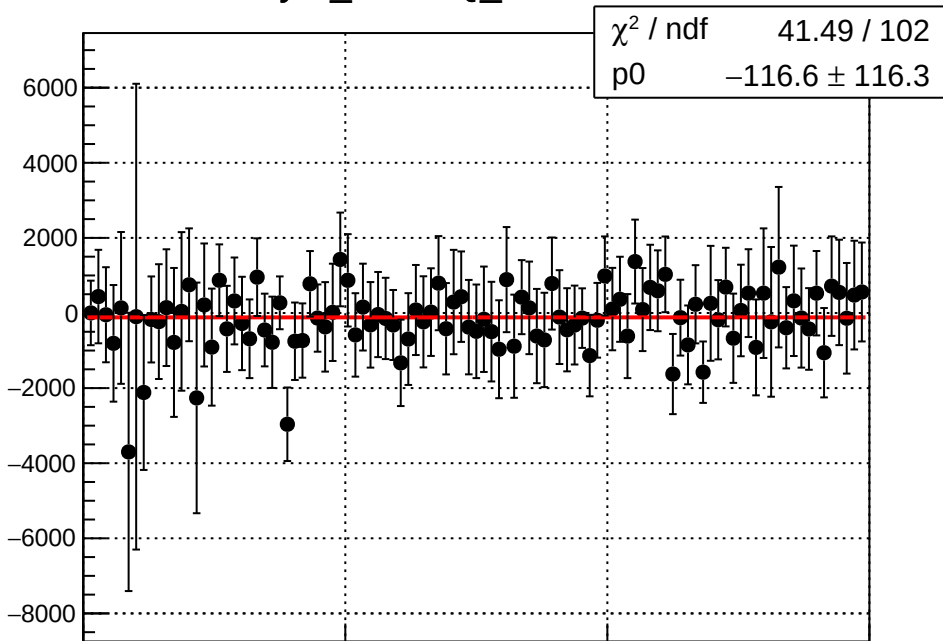
asym_cav4bQ_mean vs run



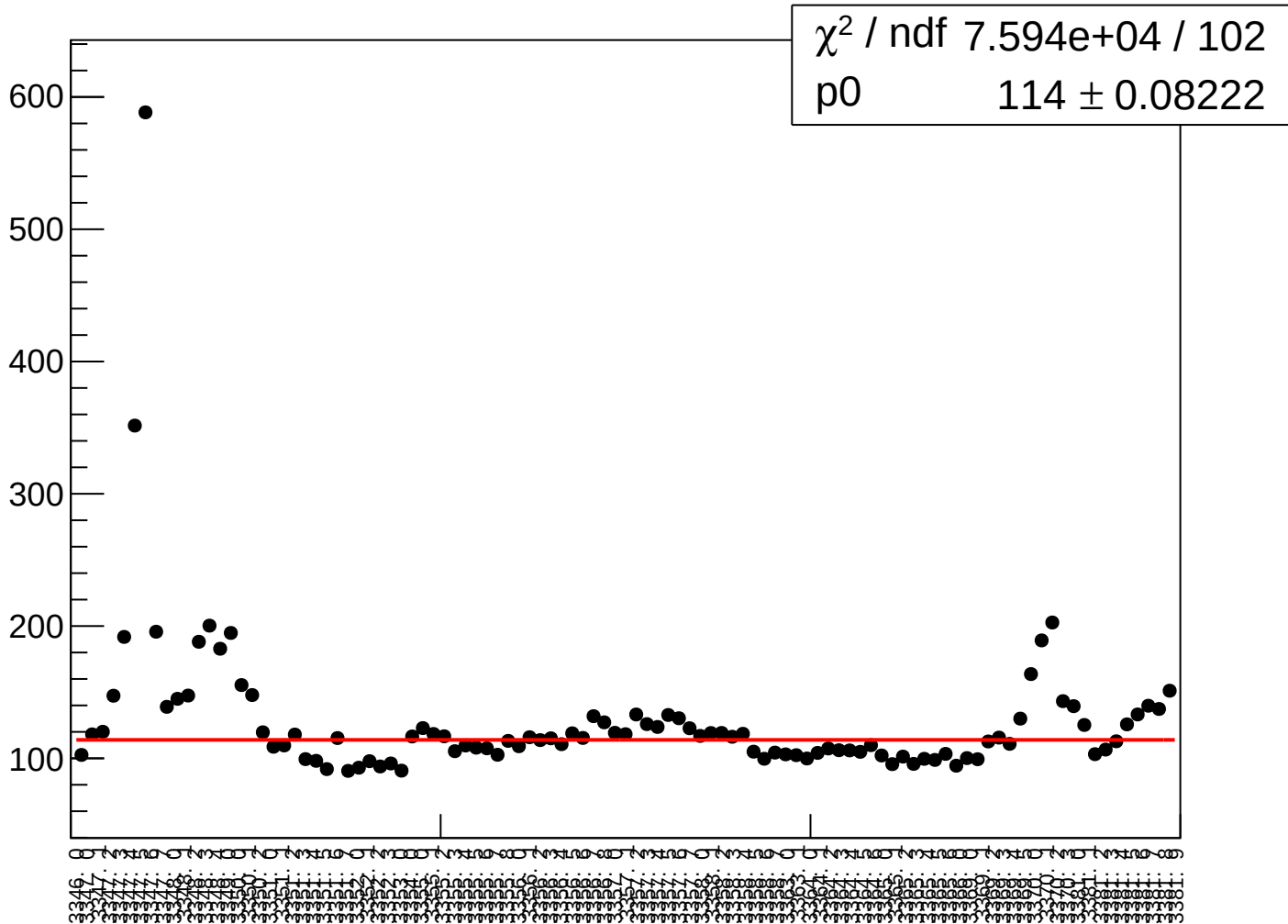
asym_cav4bQ_rms vs run



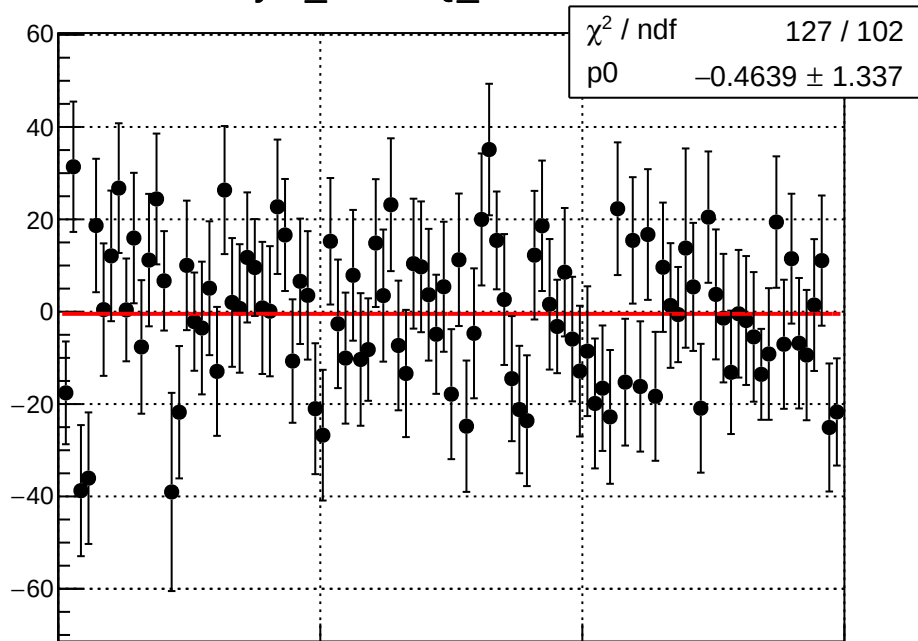
asym_cav4cQ_mean vs run



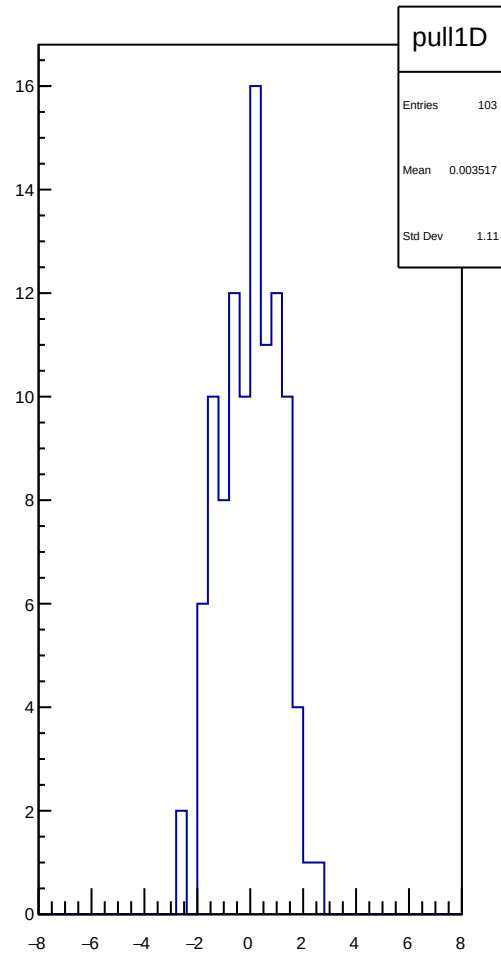
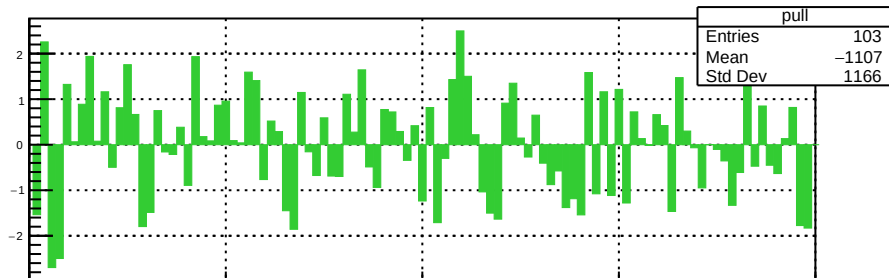
asym_cav4cQ_rms vs run



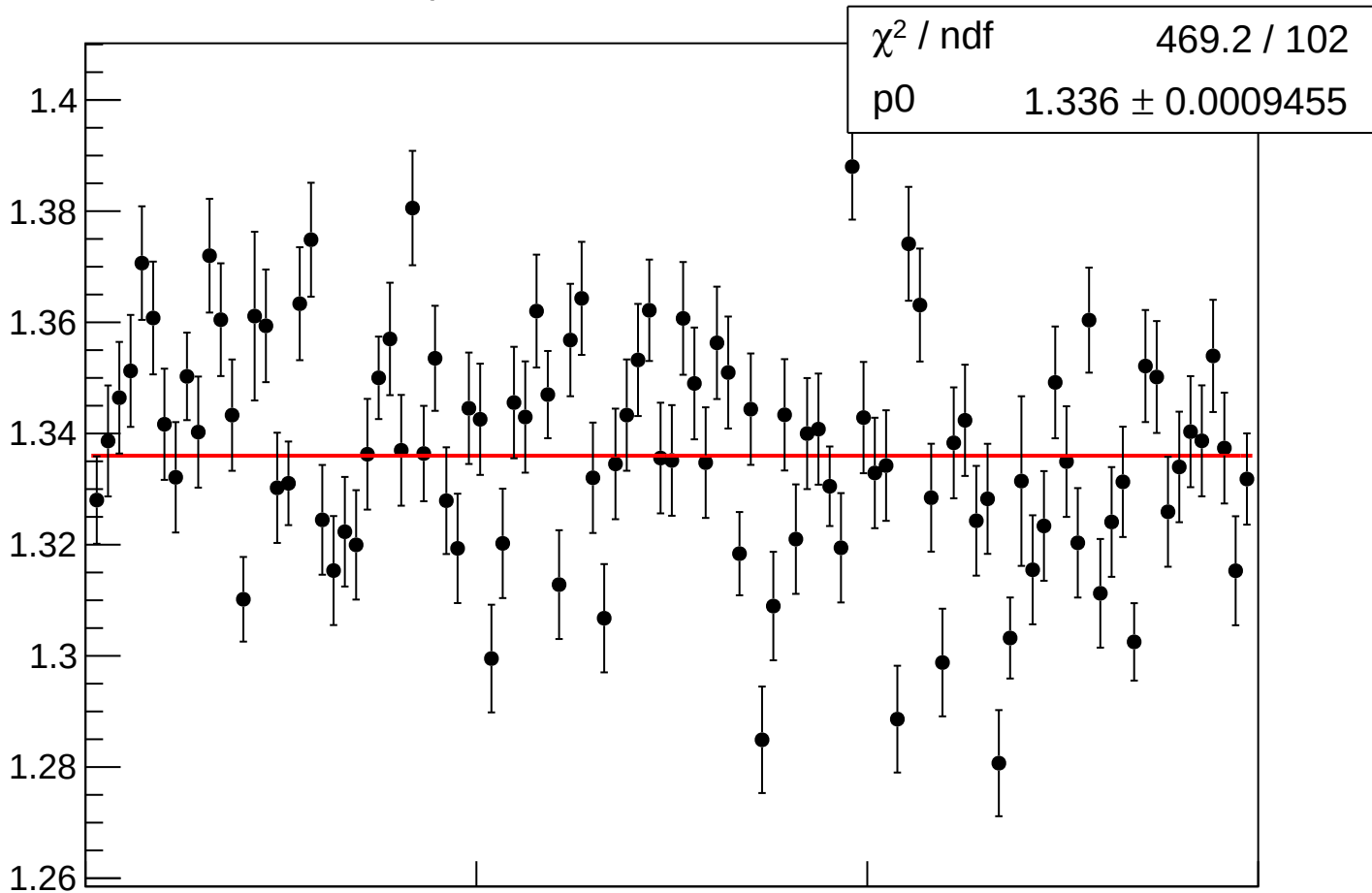
asym_cav4dQ_mean vs run



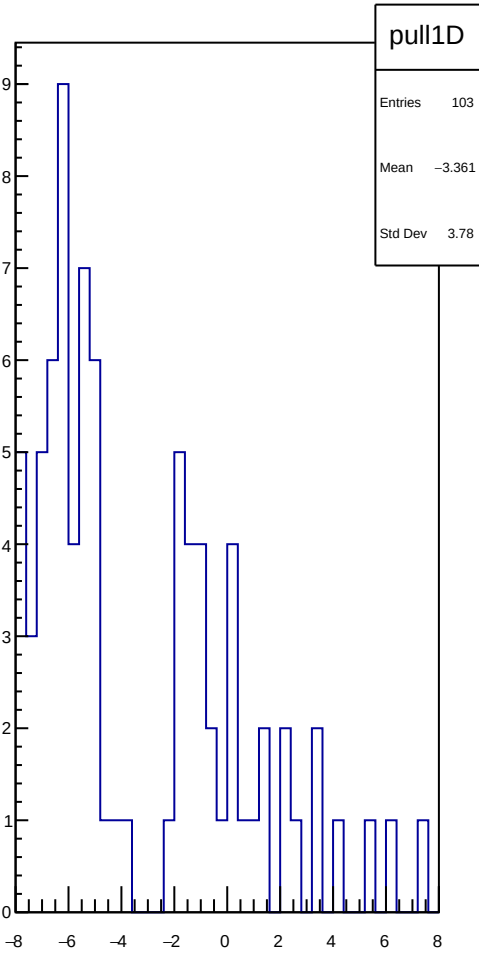
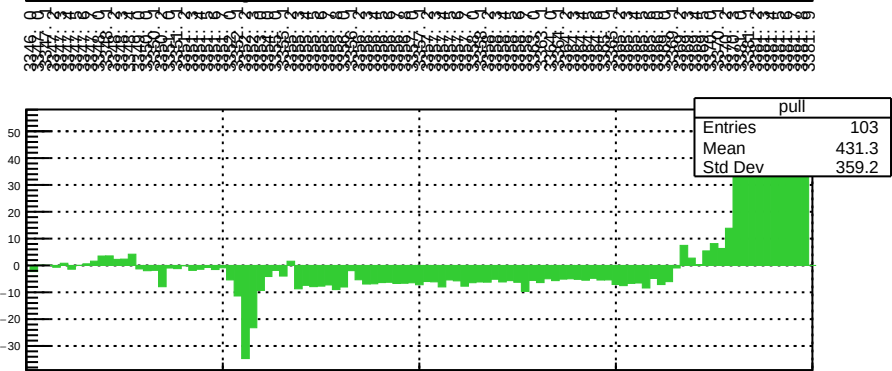
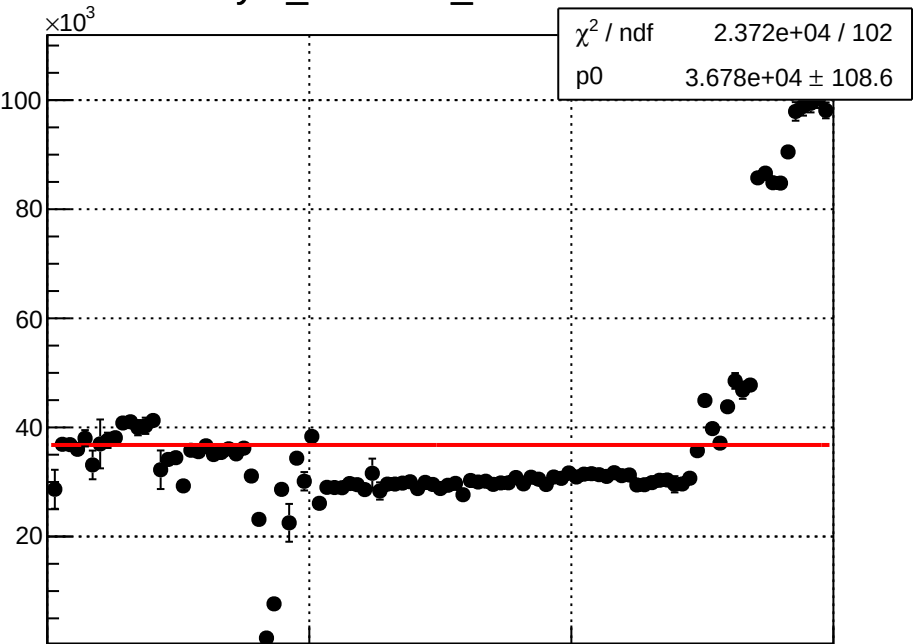
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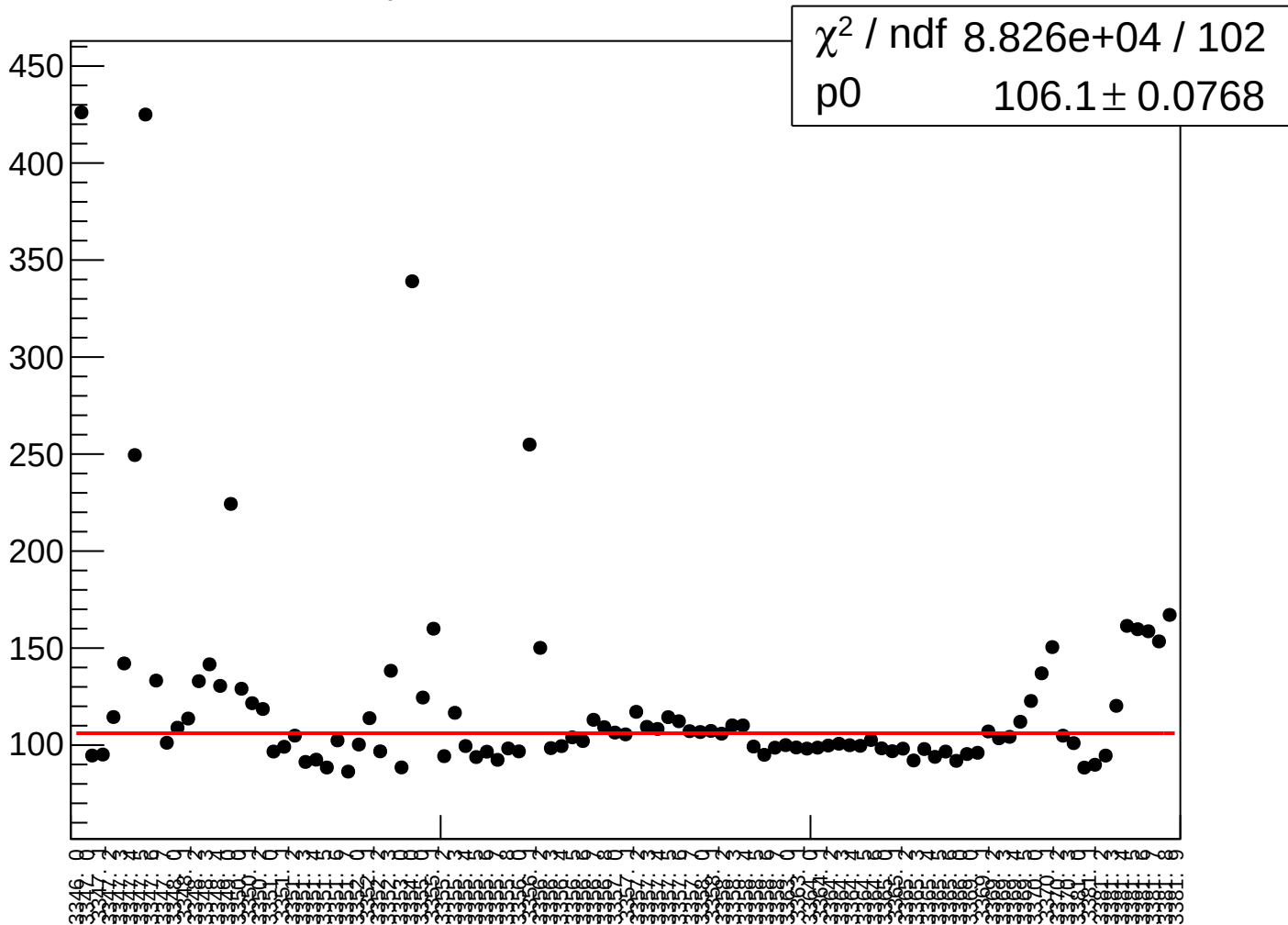
asym_cav4dQ_rms vs run



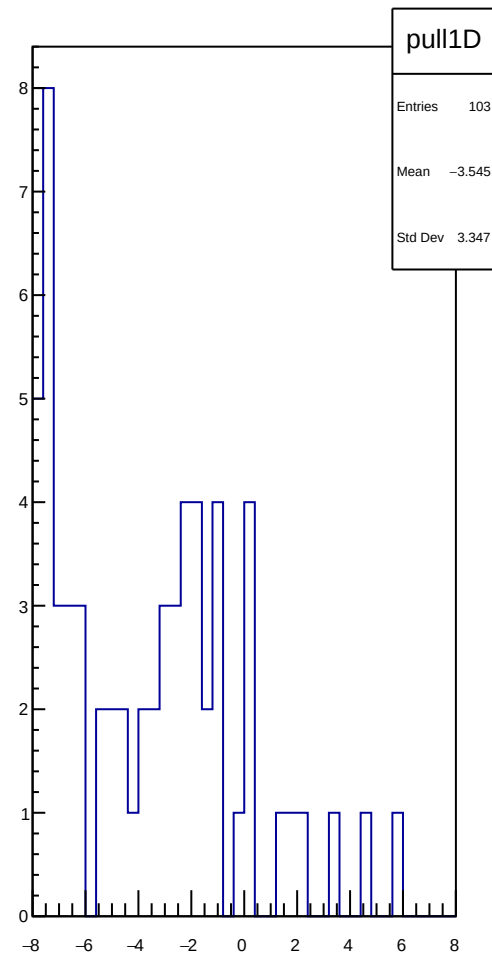
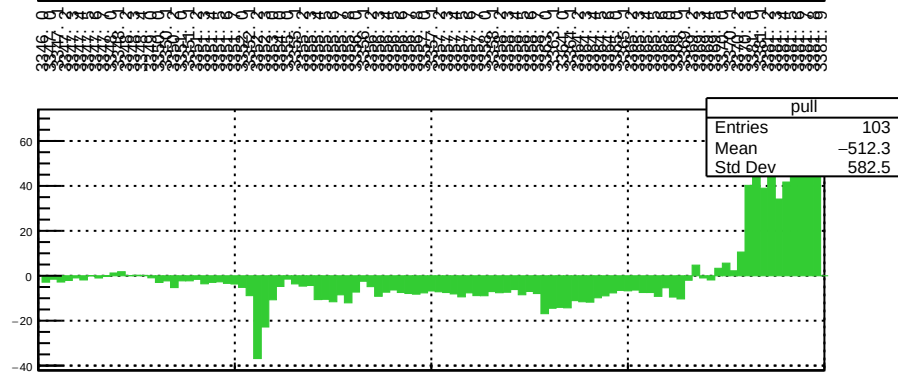
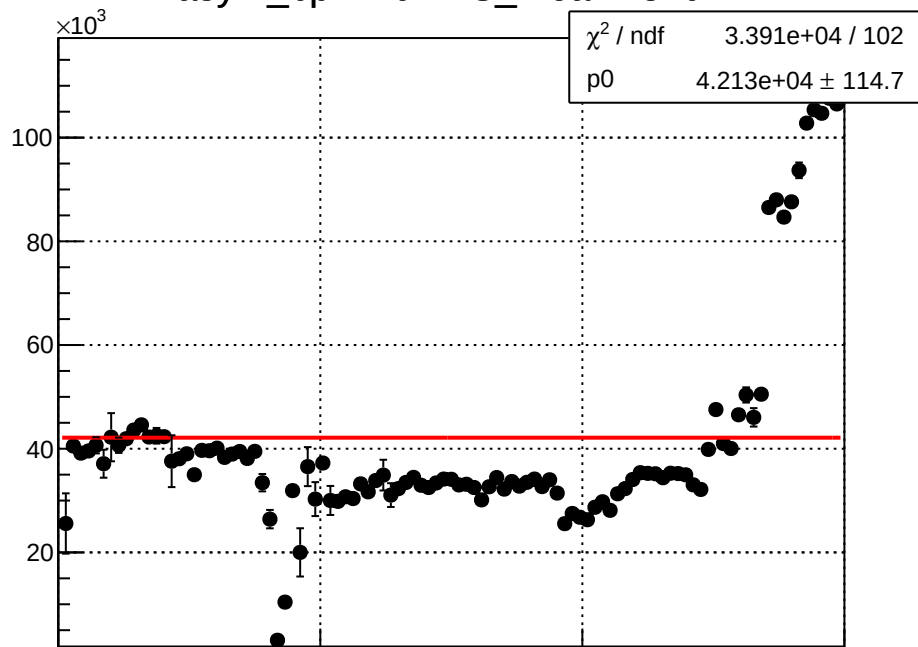
asym_bcm0l02_mean vs run



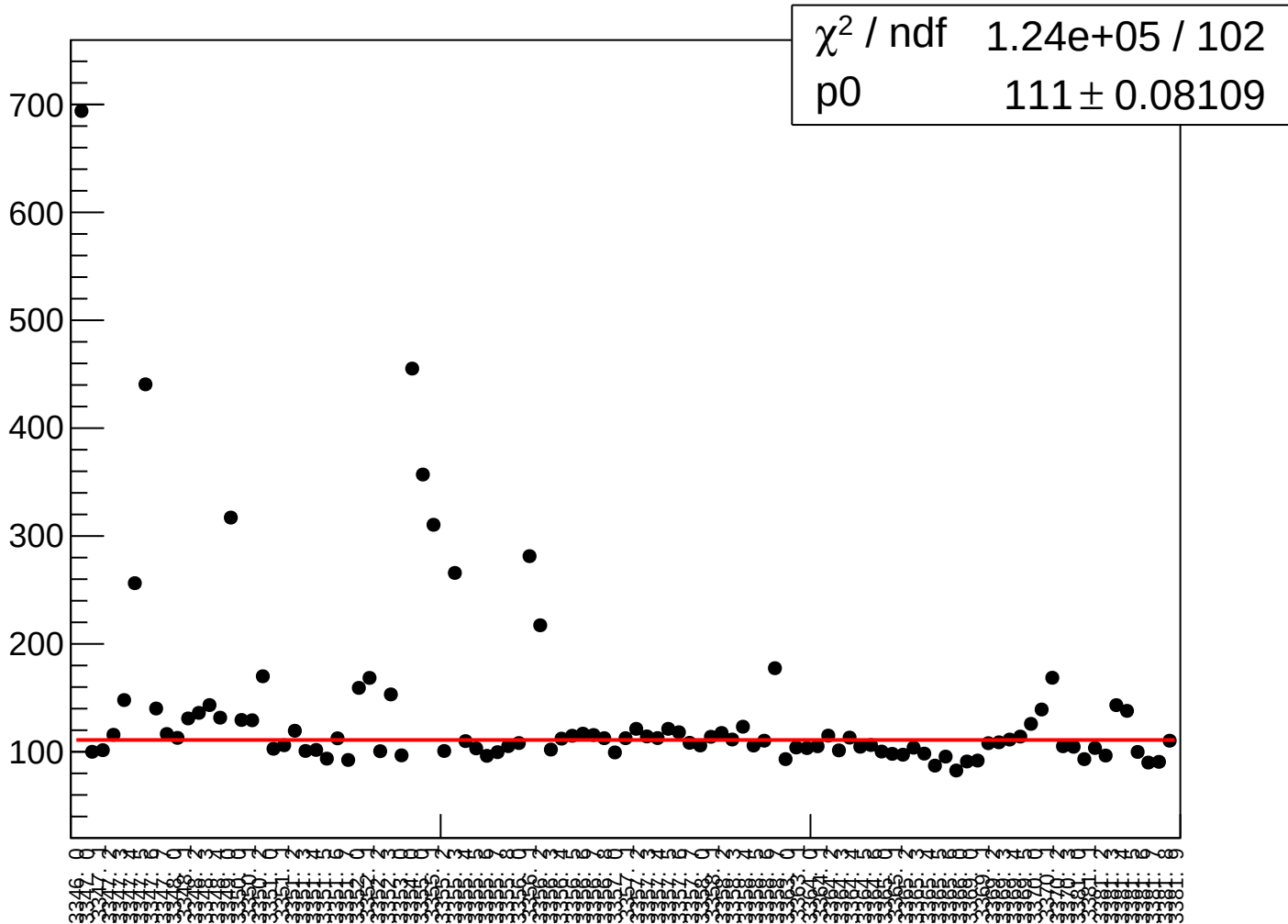
asym_bcm0l02_rms vs run



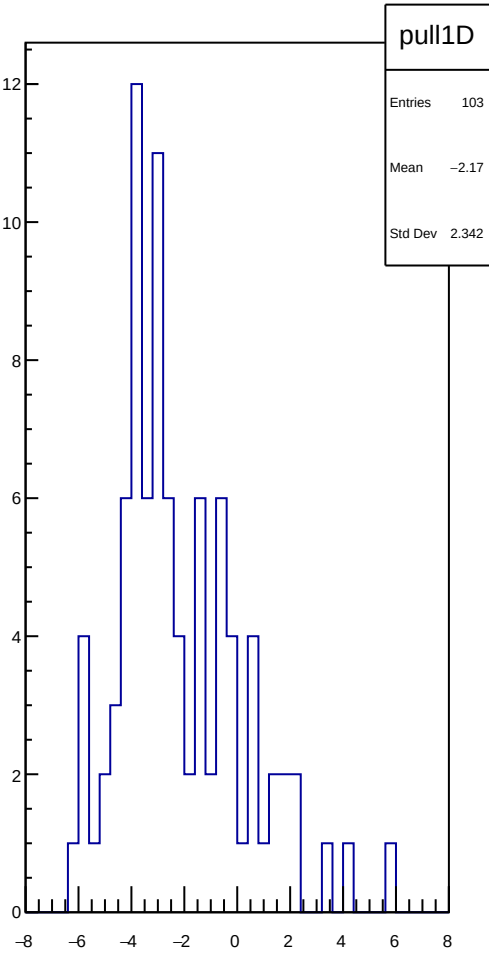
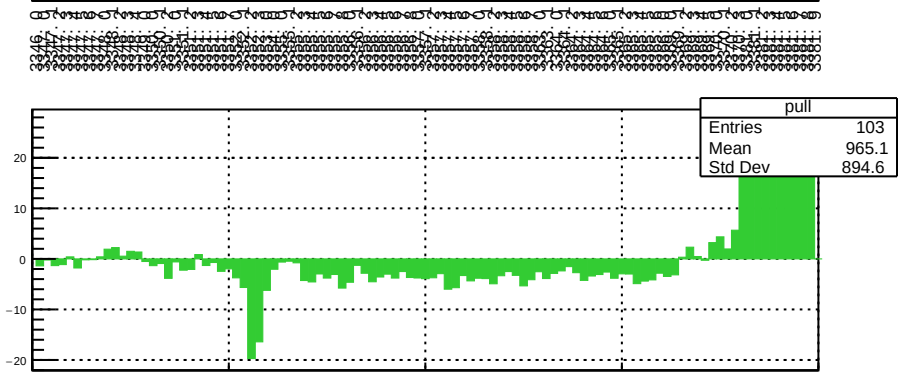
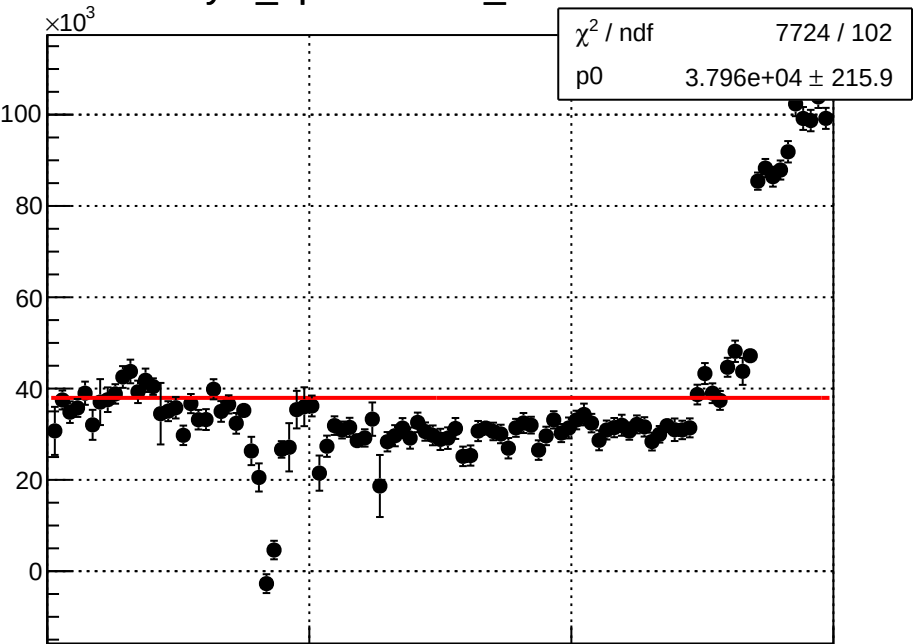
asym_bpm2i01WS_mean vs run



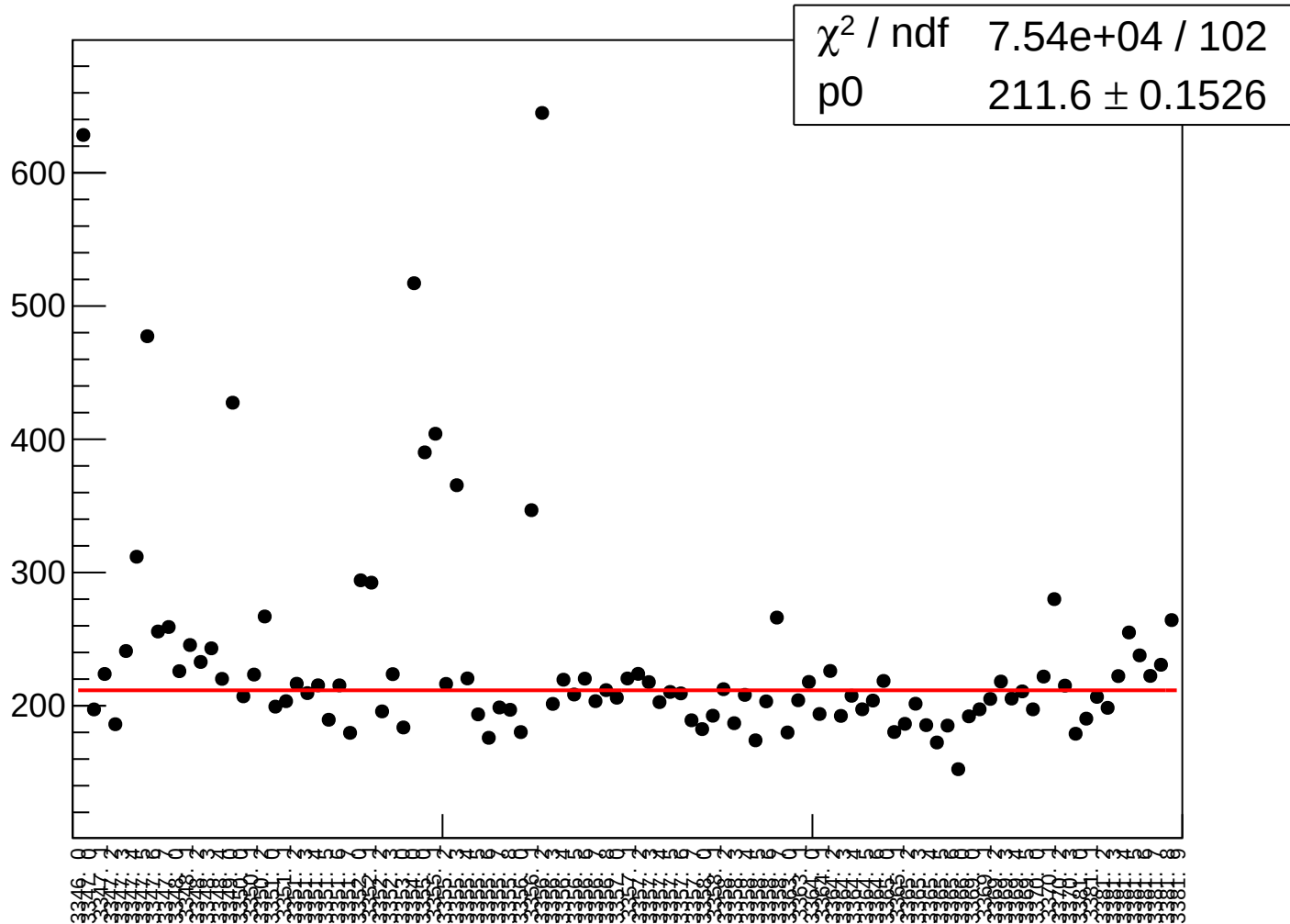
asym_bpm2i01WS_rms vs run



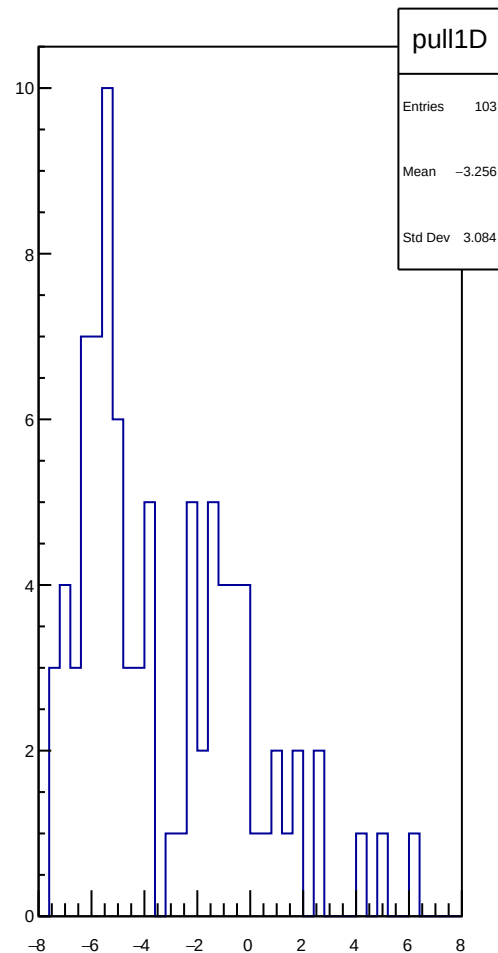
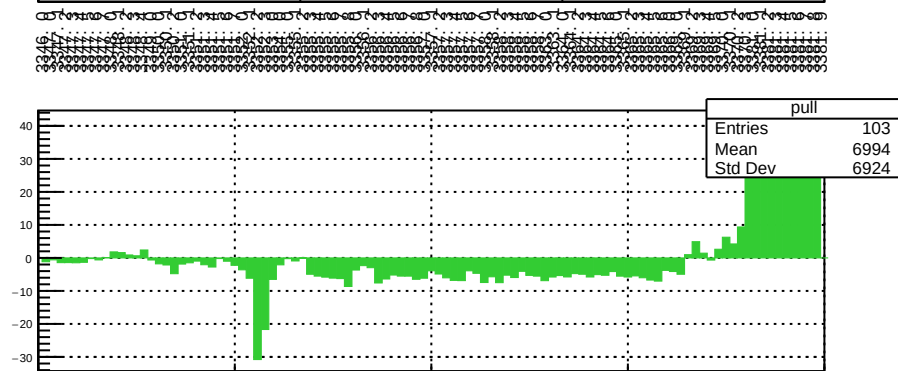
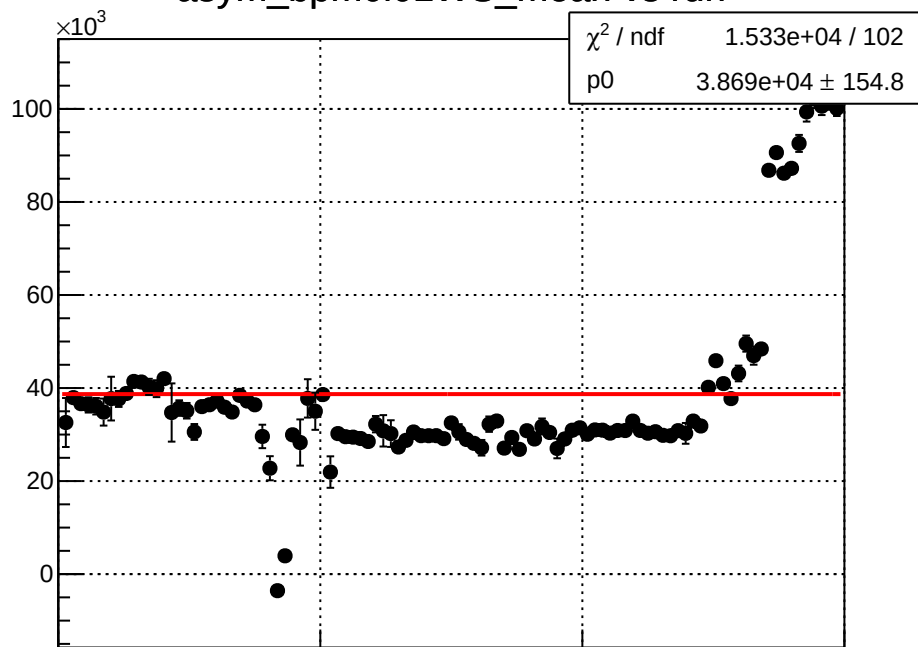
asym_bpm0i07WS_mean vs run



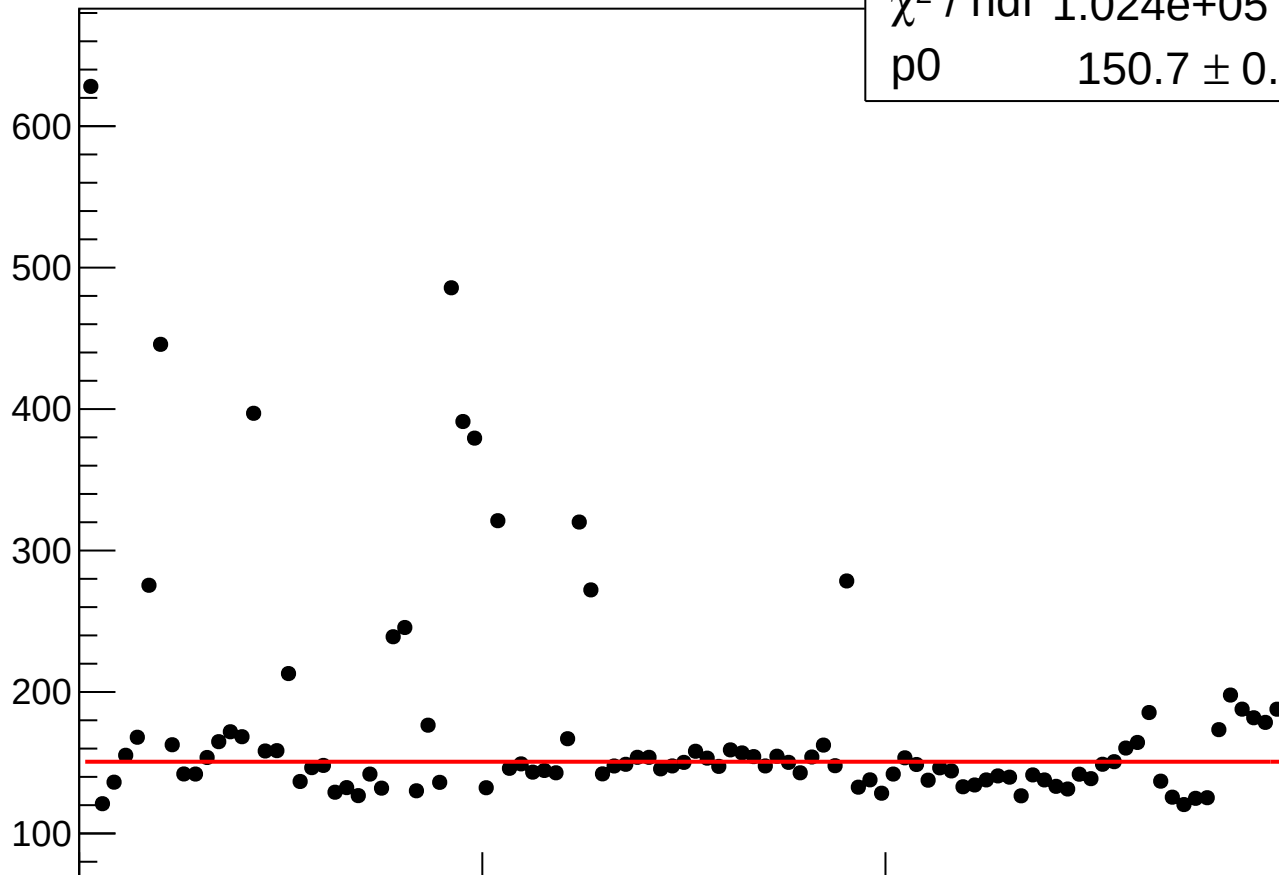
asym_bpm0i07WS_rms vs run



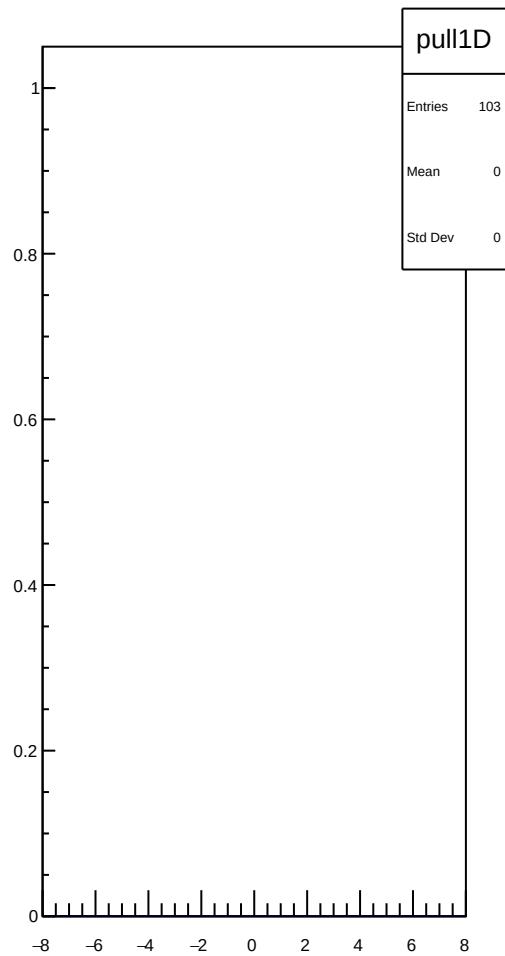
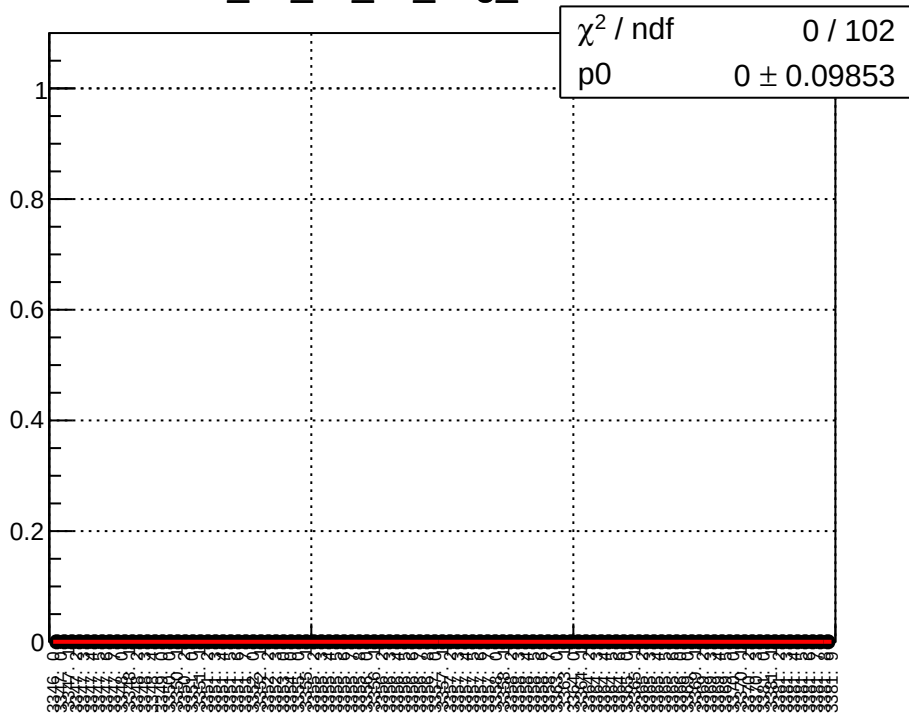
asym_bpm0l01WS_mean vs run



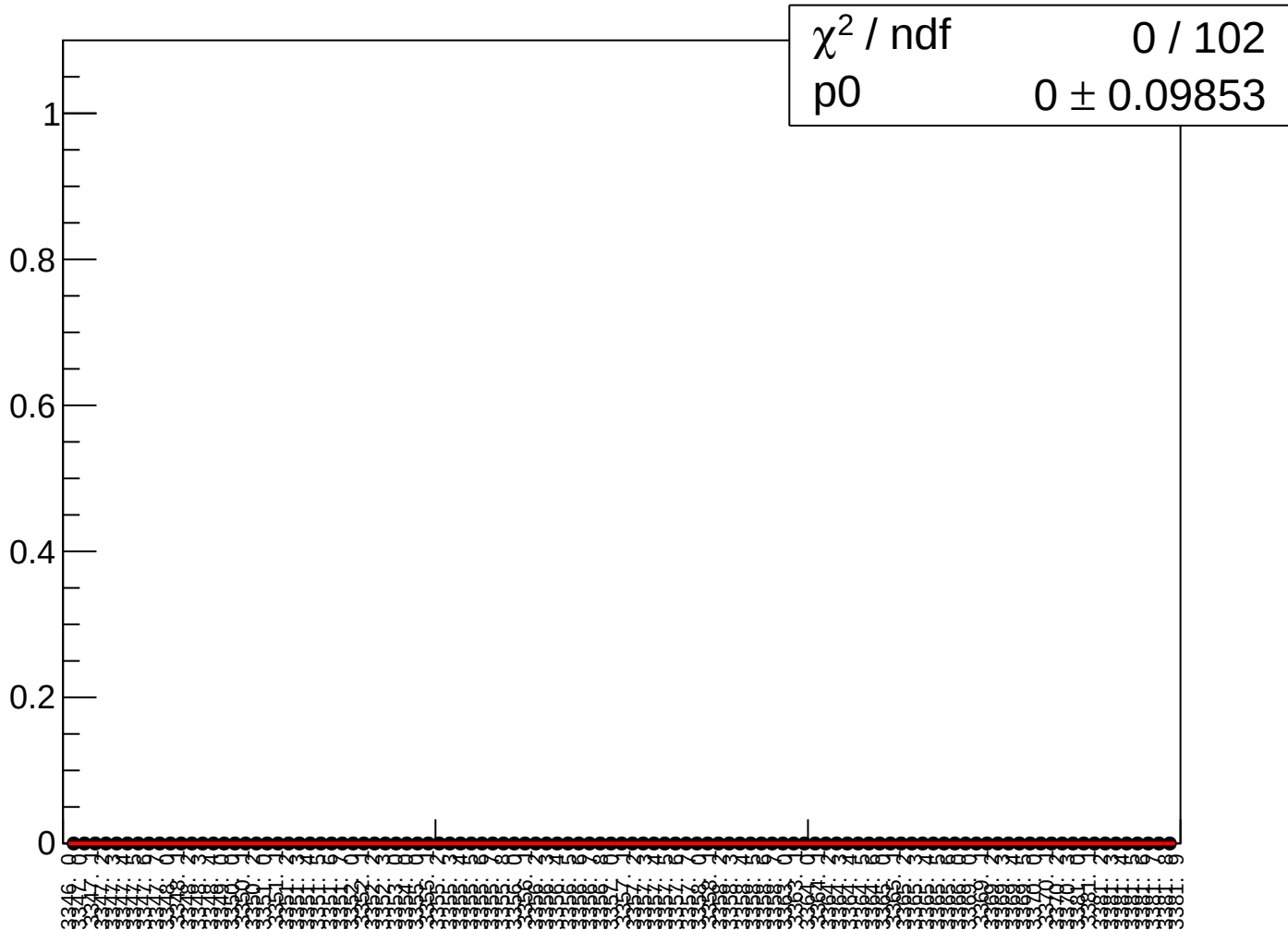
χ^2 / ndf	1.024e+05 / 102
p0	150.7 $\pm$ 0.1095



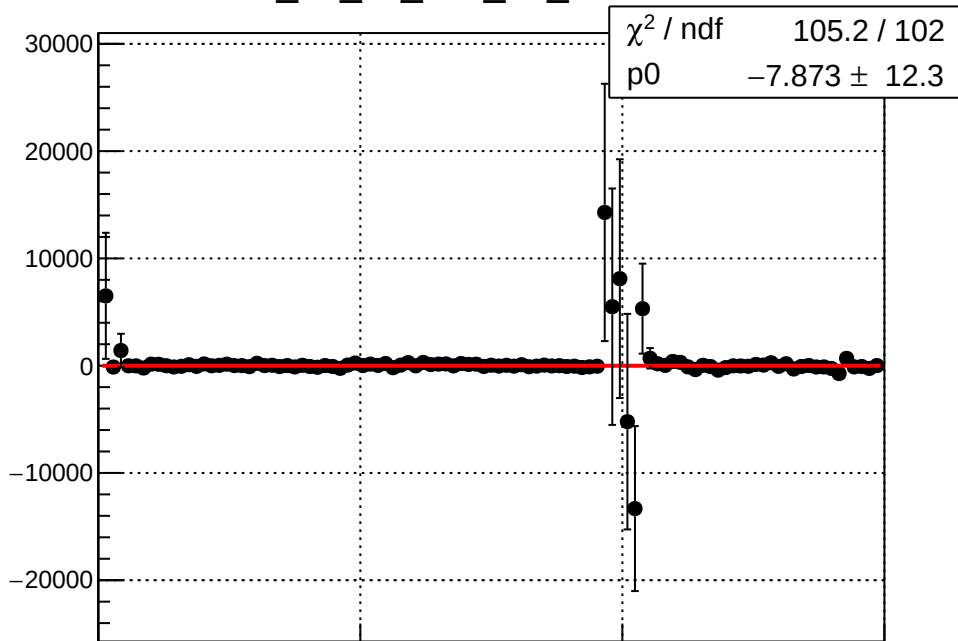
bcm_an_us_ds_avg_mean vs run

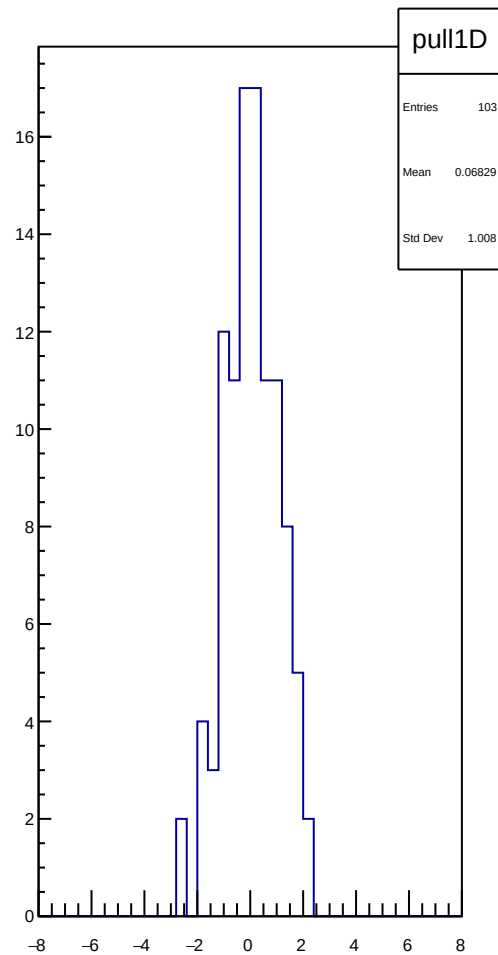
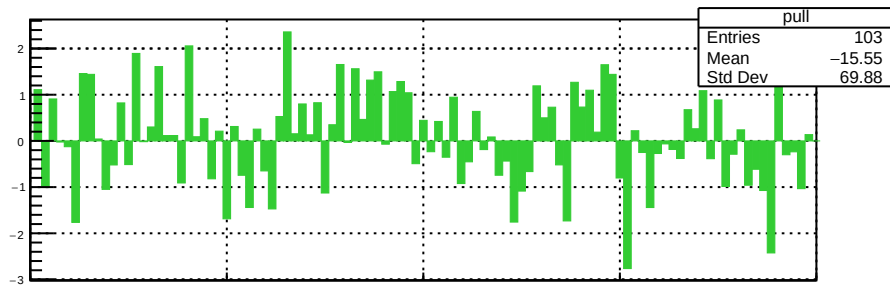


bcm_an_us_ds_avg_rms vs run

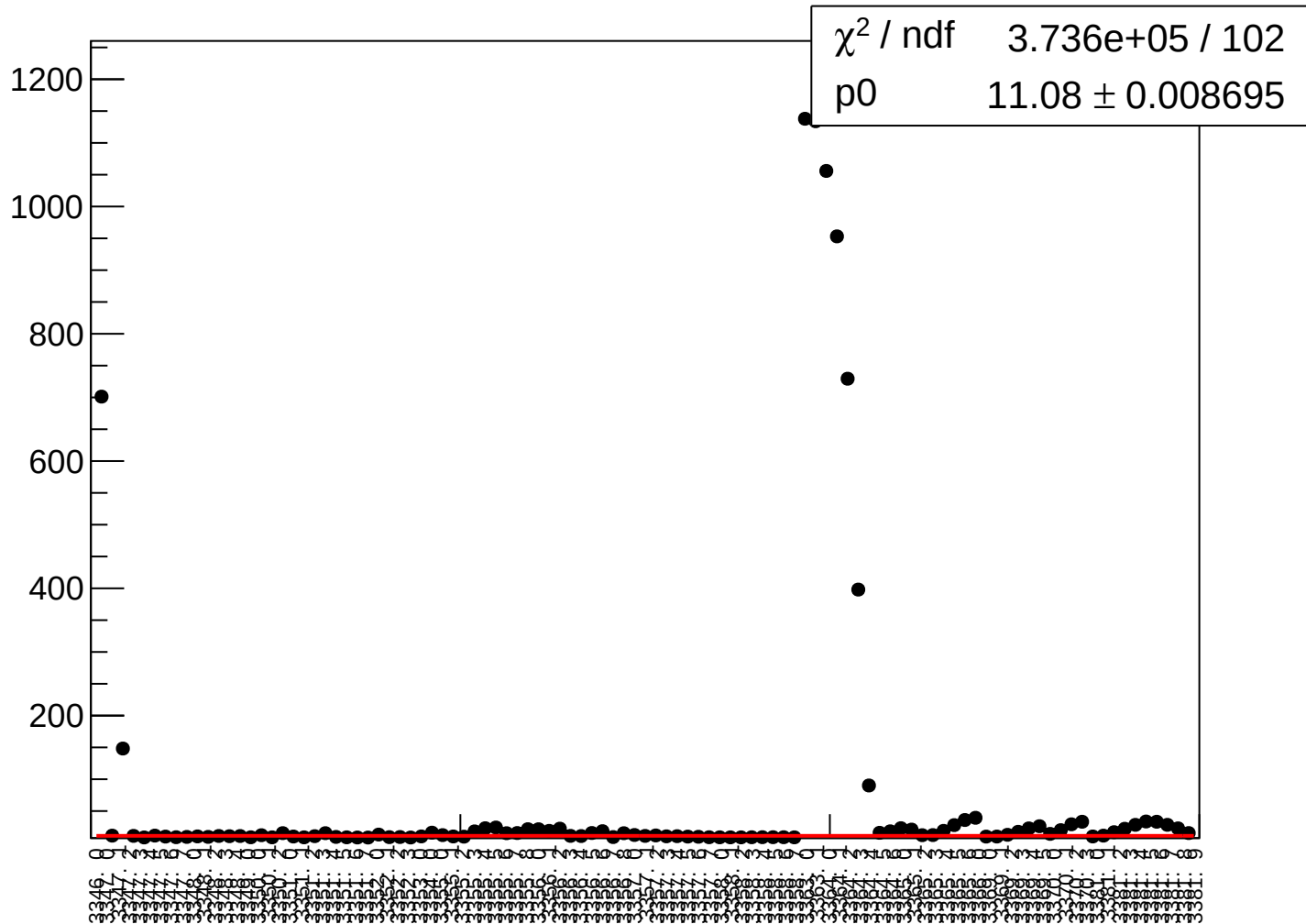


bcm_an_us_ds3_dd_mean vs run

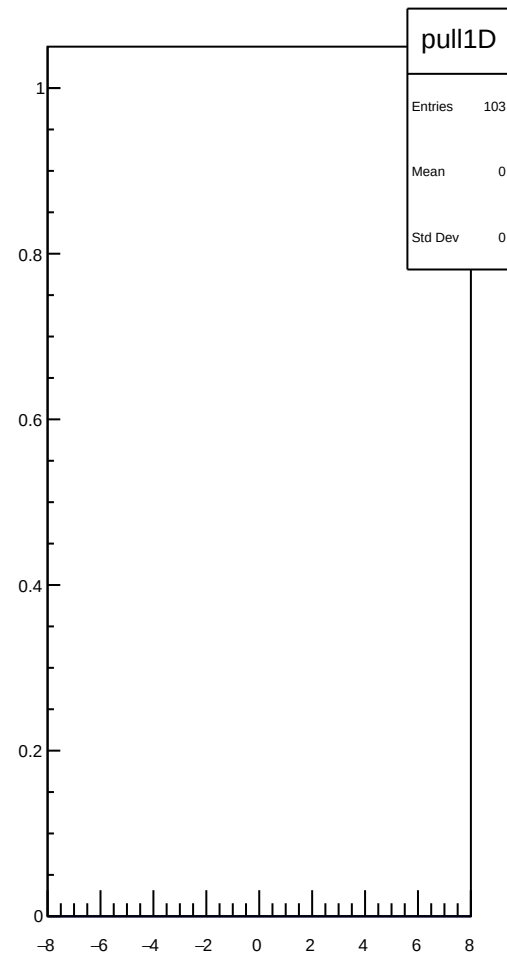
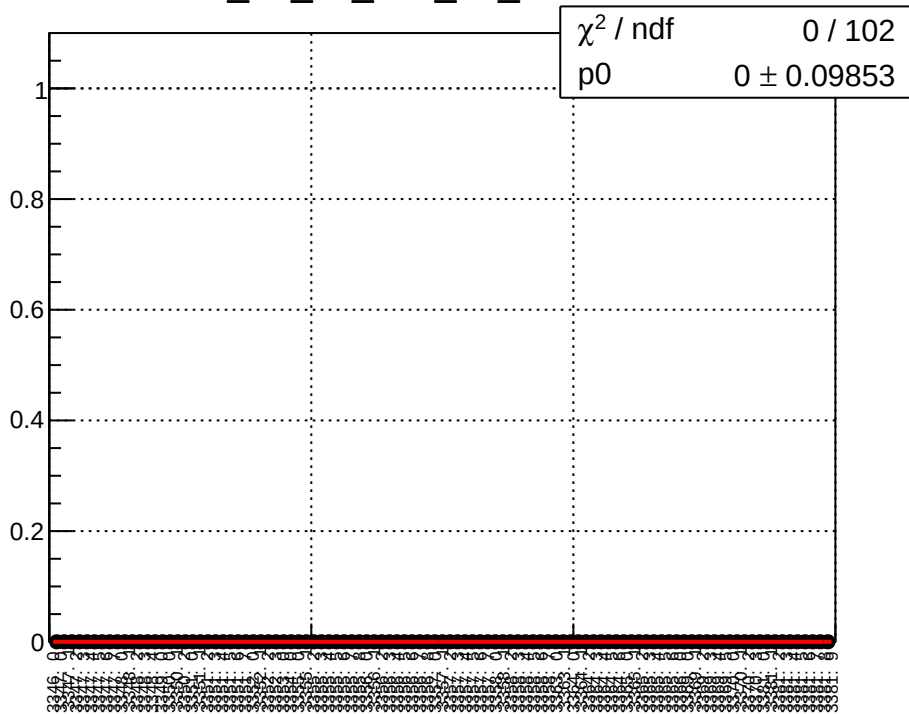




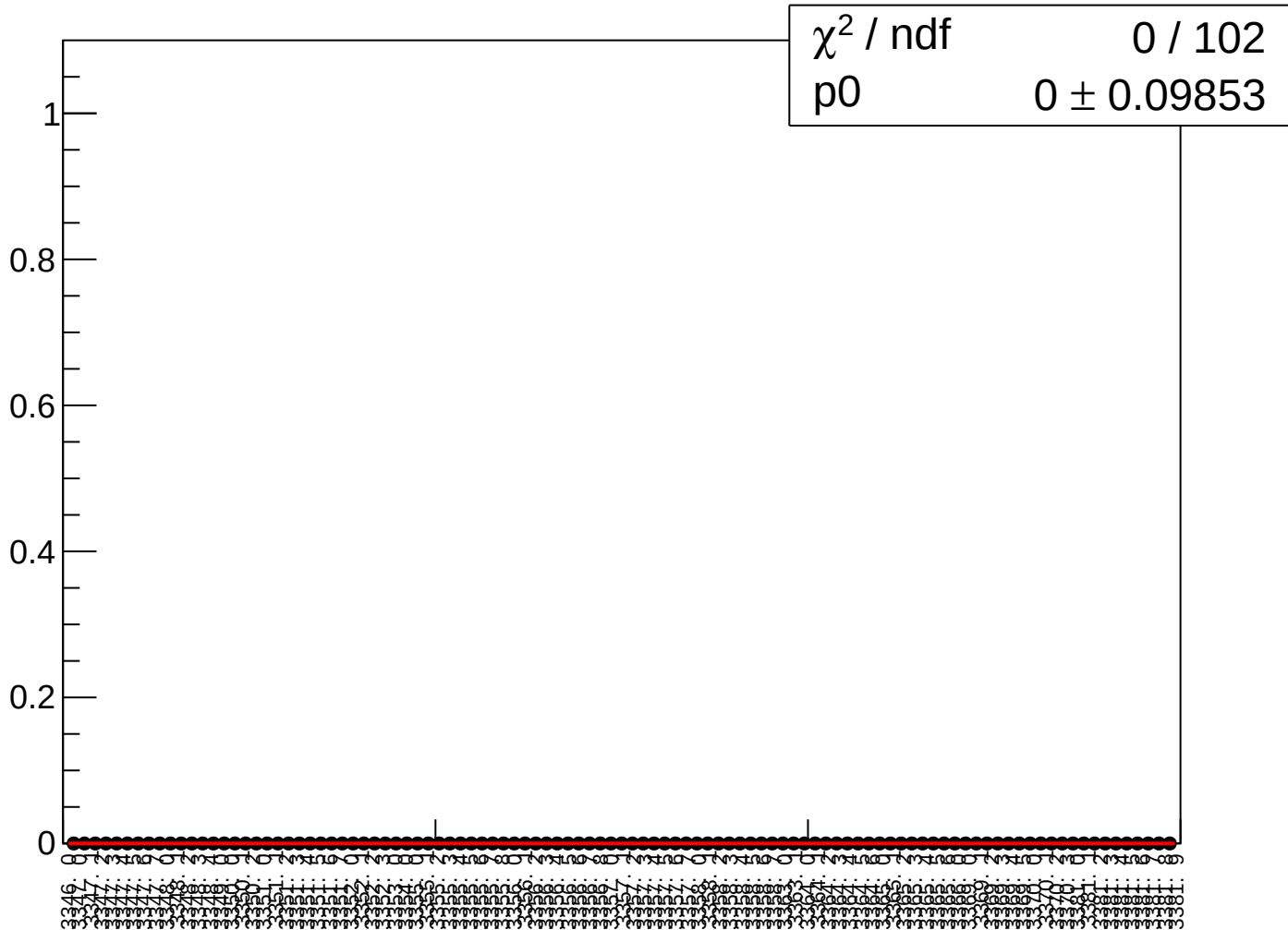
bcm_an_us_ds3_dd_rms vs run



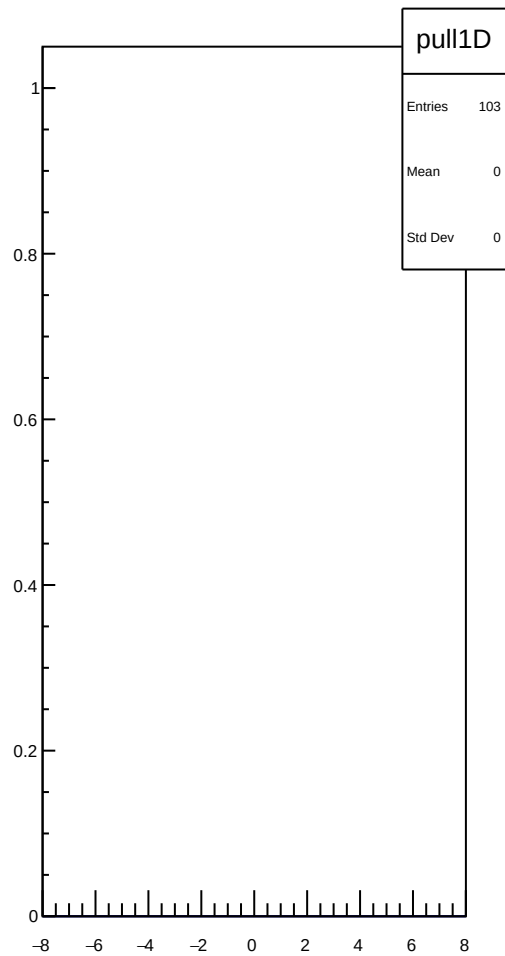
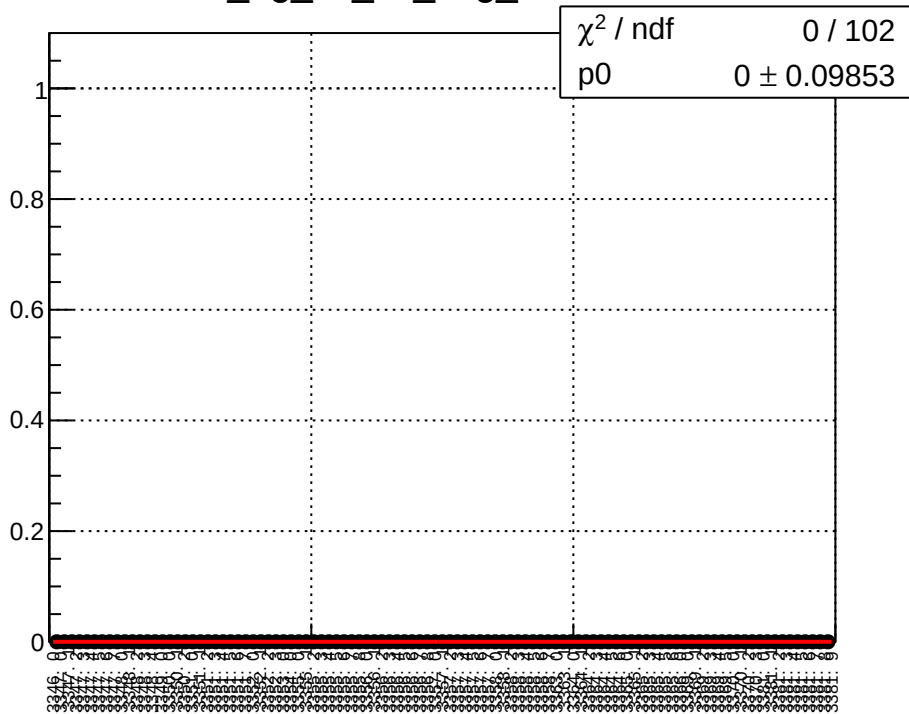
bcm_an_ds_ds3_dd_mean vs run



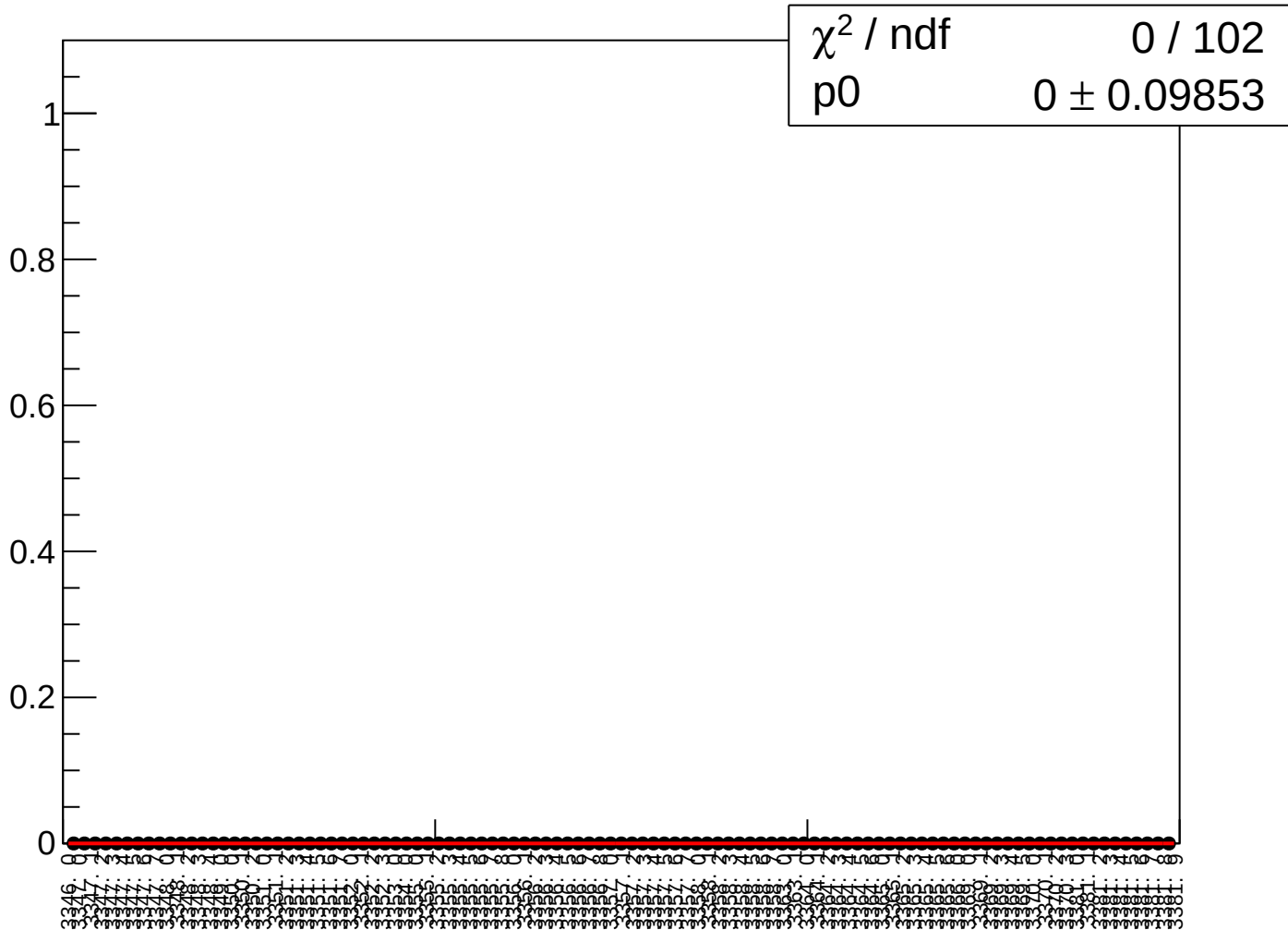
bcm_an_ds_ds3_dd_rms vs run



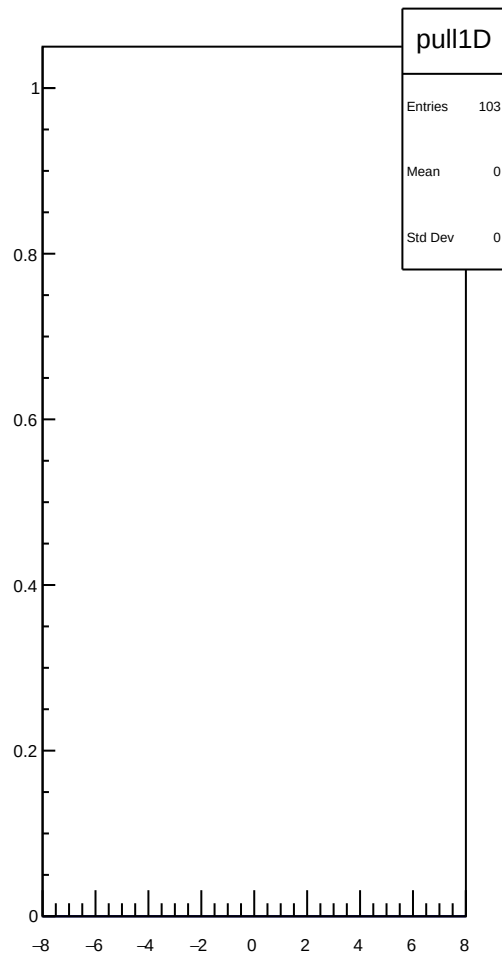
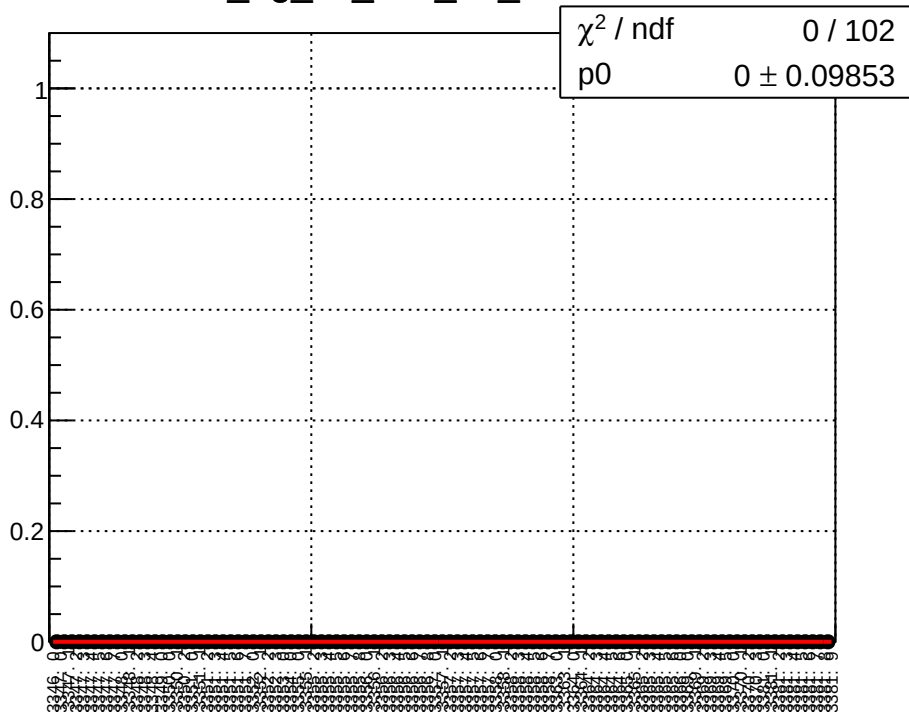
bcm_dg_us_ds_avg_mean vs run



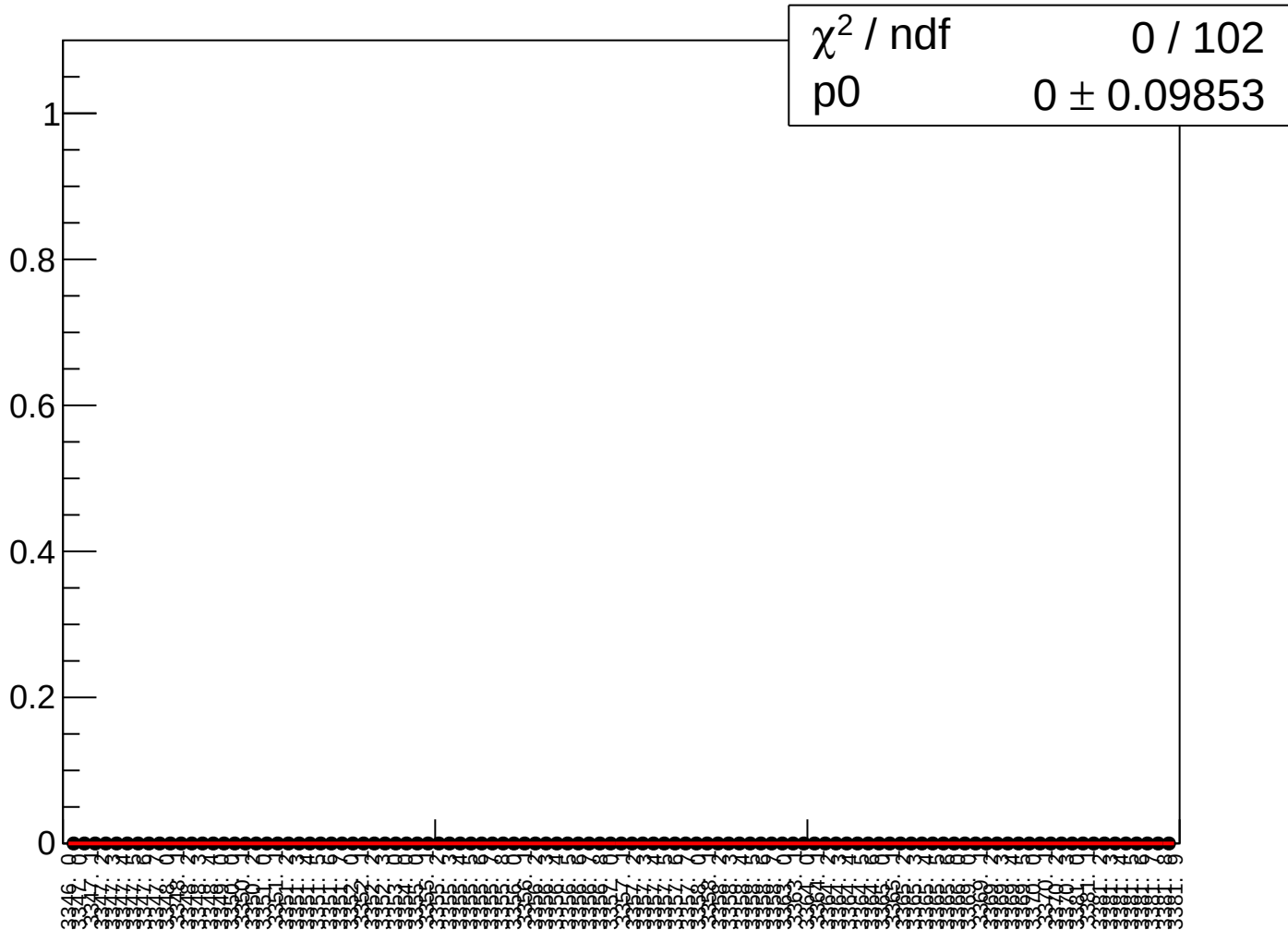
bcm_dg_us_ds_avg_rms vs run



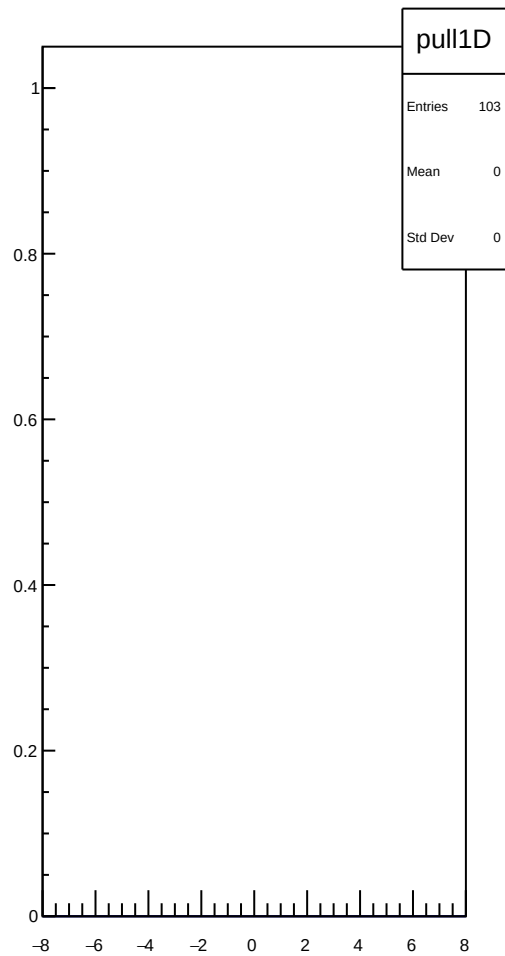
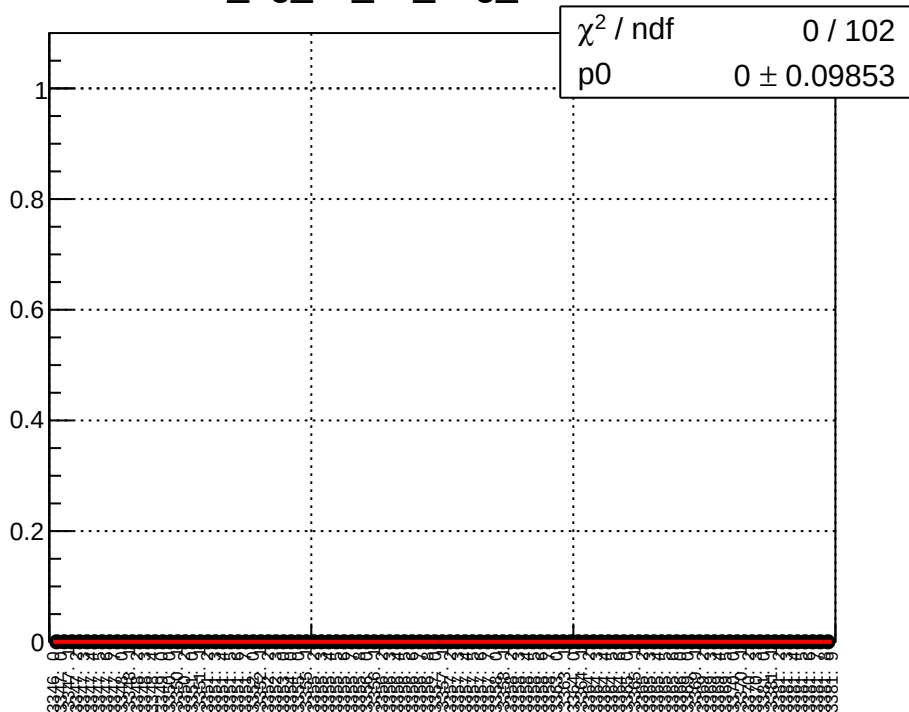
bcm_dg_us_ds3_dd_mean vs run



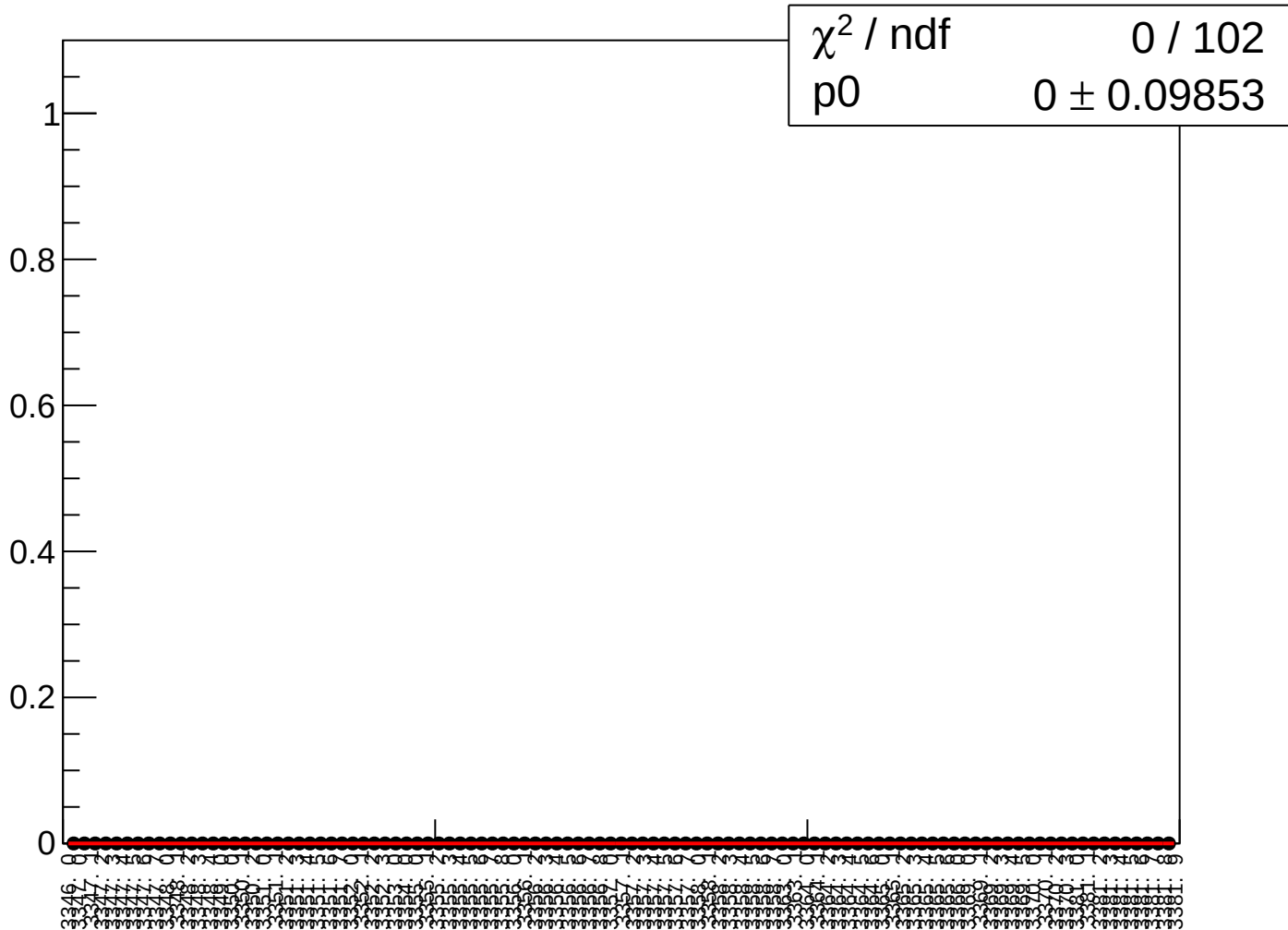
bcm_dg_us_ds3_dd_rms vs run



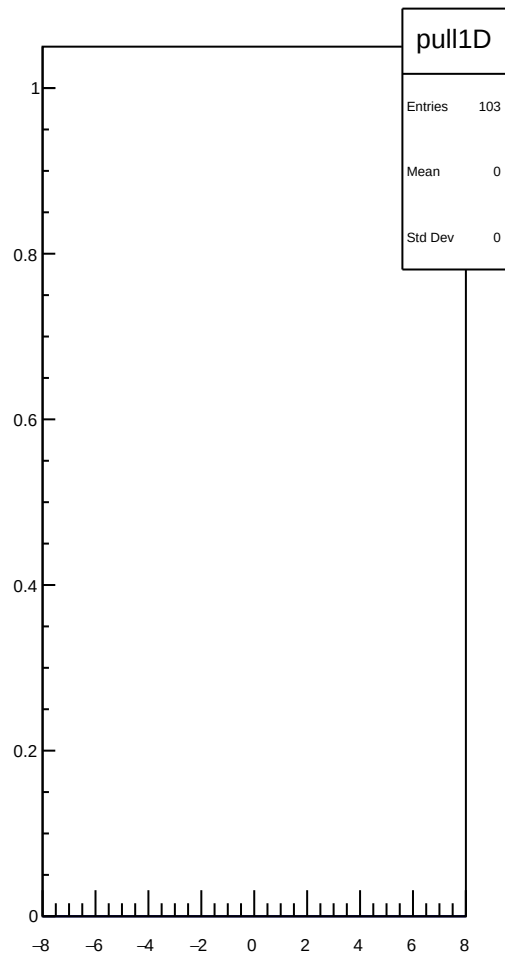
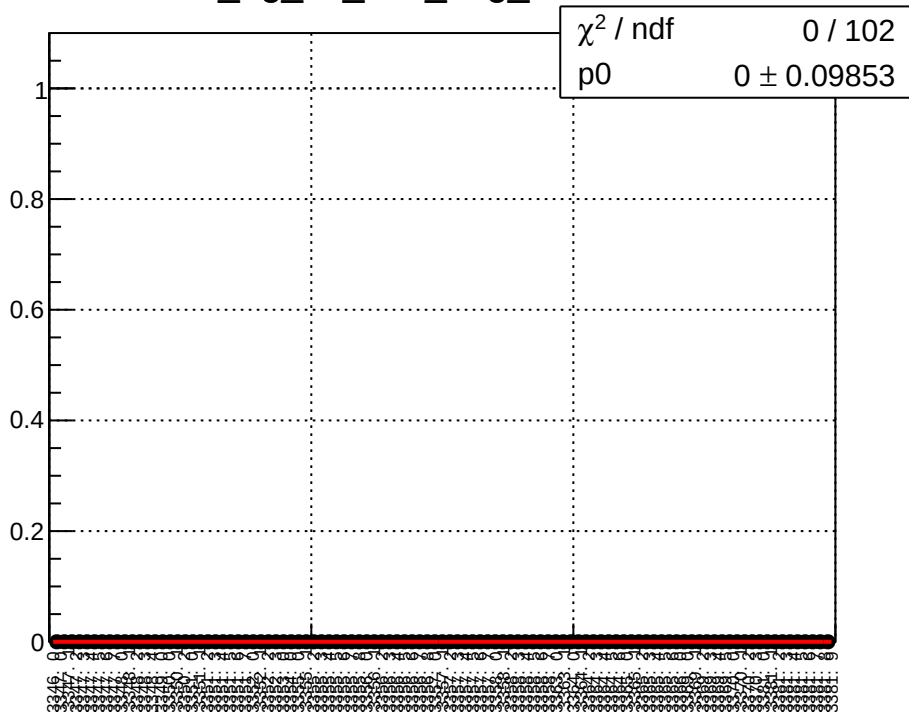
bcm_dg_ds_ds_avg_mean vs run



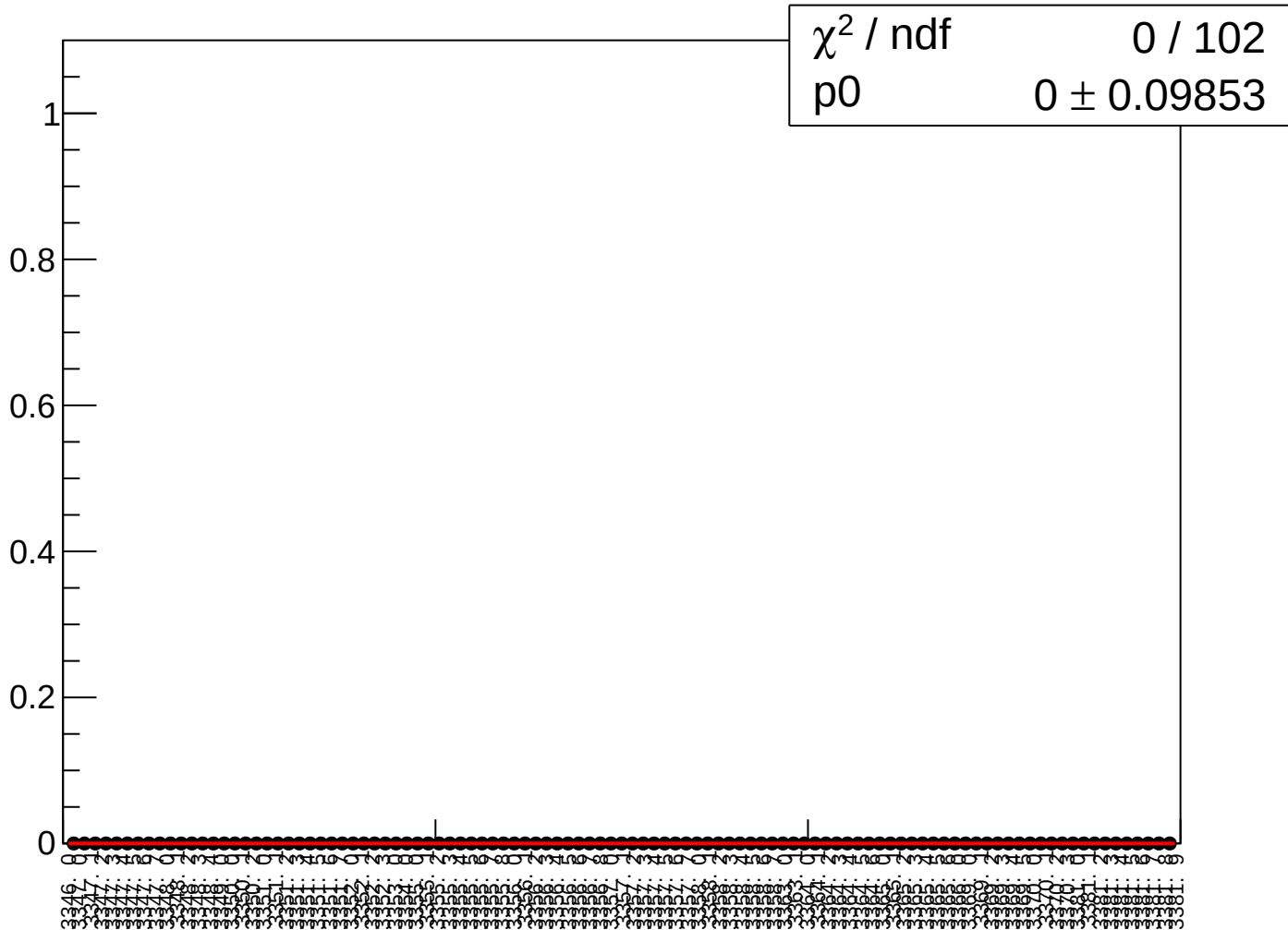
bcm_dg_ds_ds_avg_rms vs run



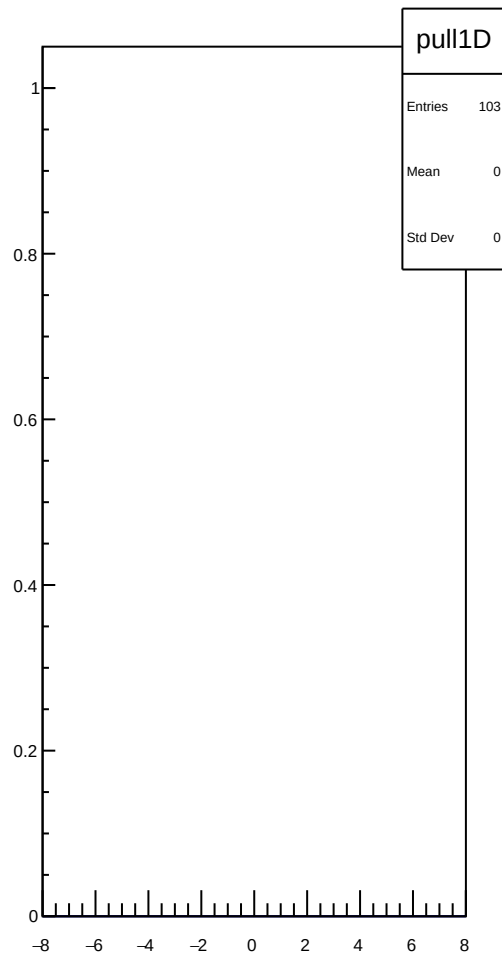
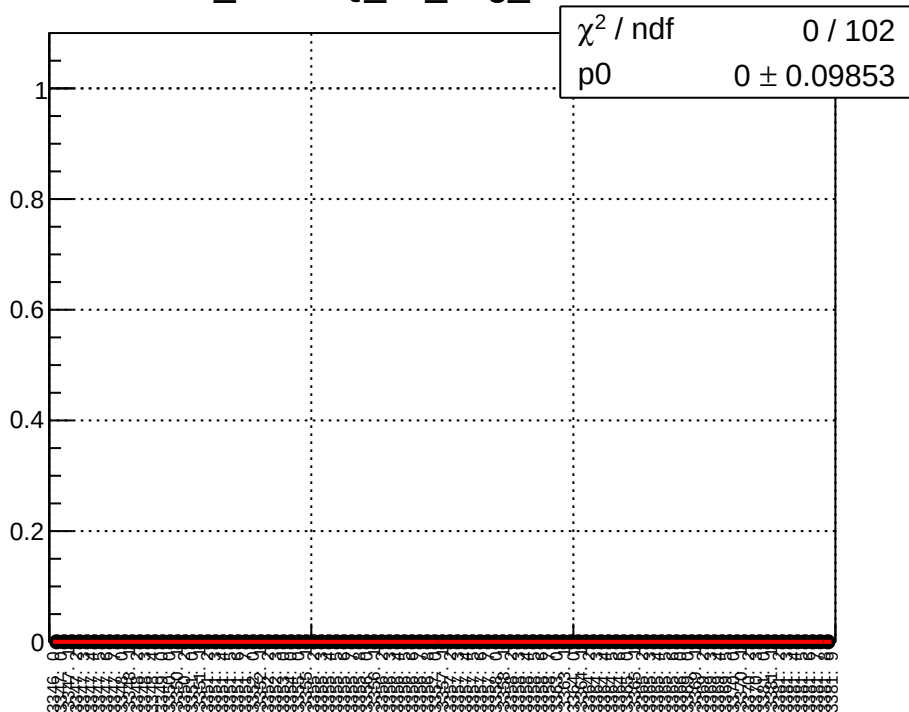
bcm_dg_ds_ds3_avg_mean vs run



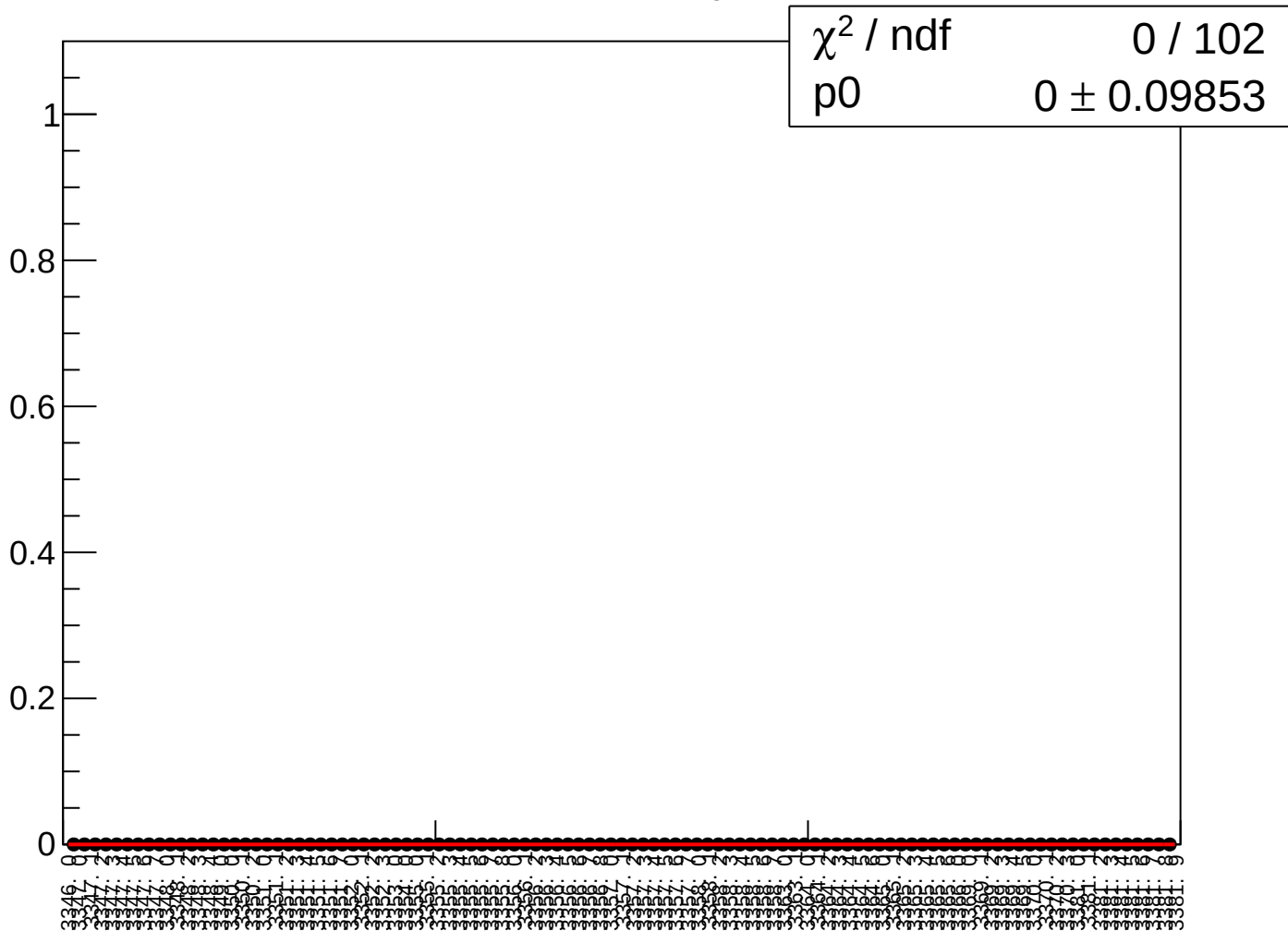
bcm_dg_ds_ds3_avg_rms vs run



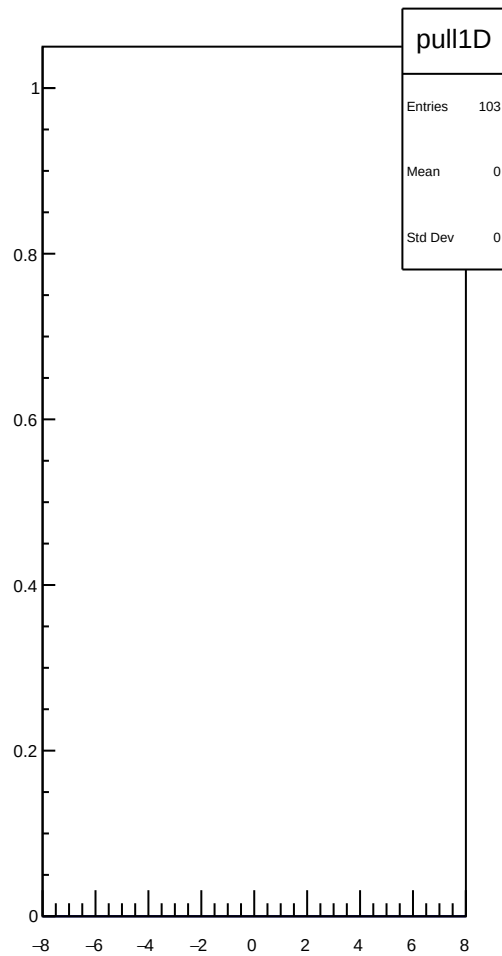
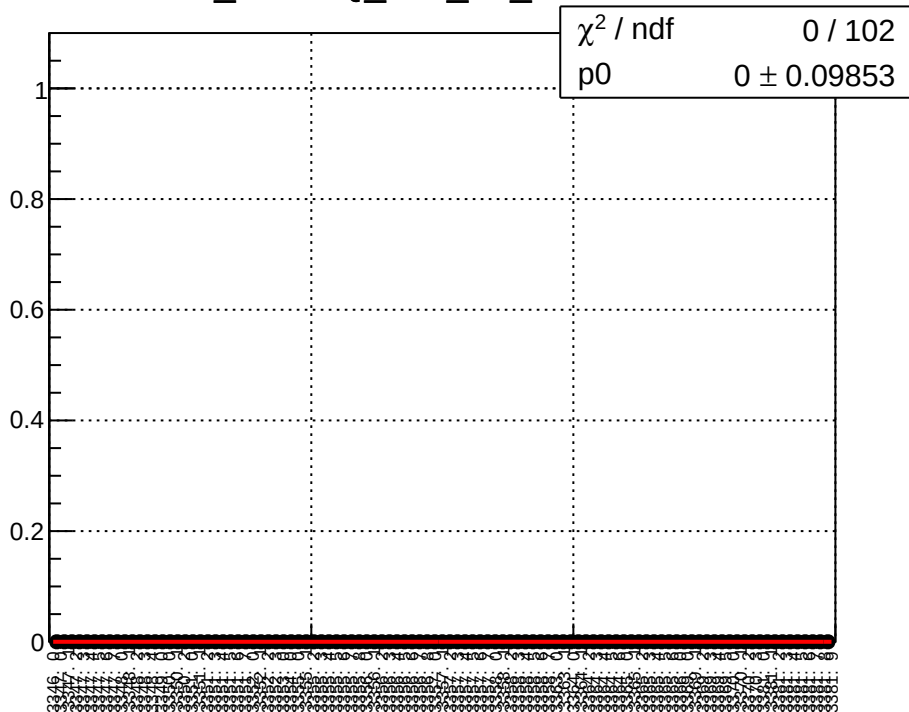
bcm_cav4cQ_ds_avg_mean vs run



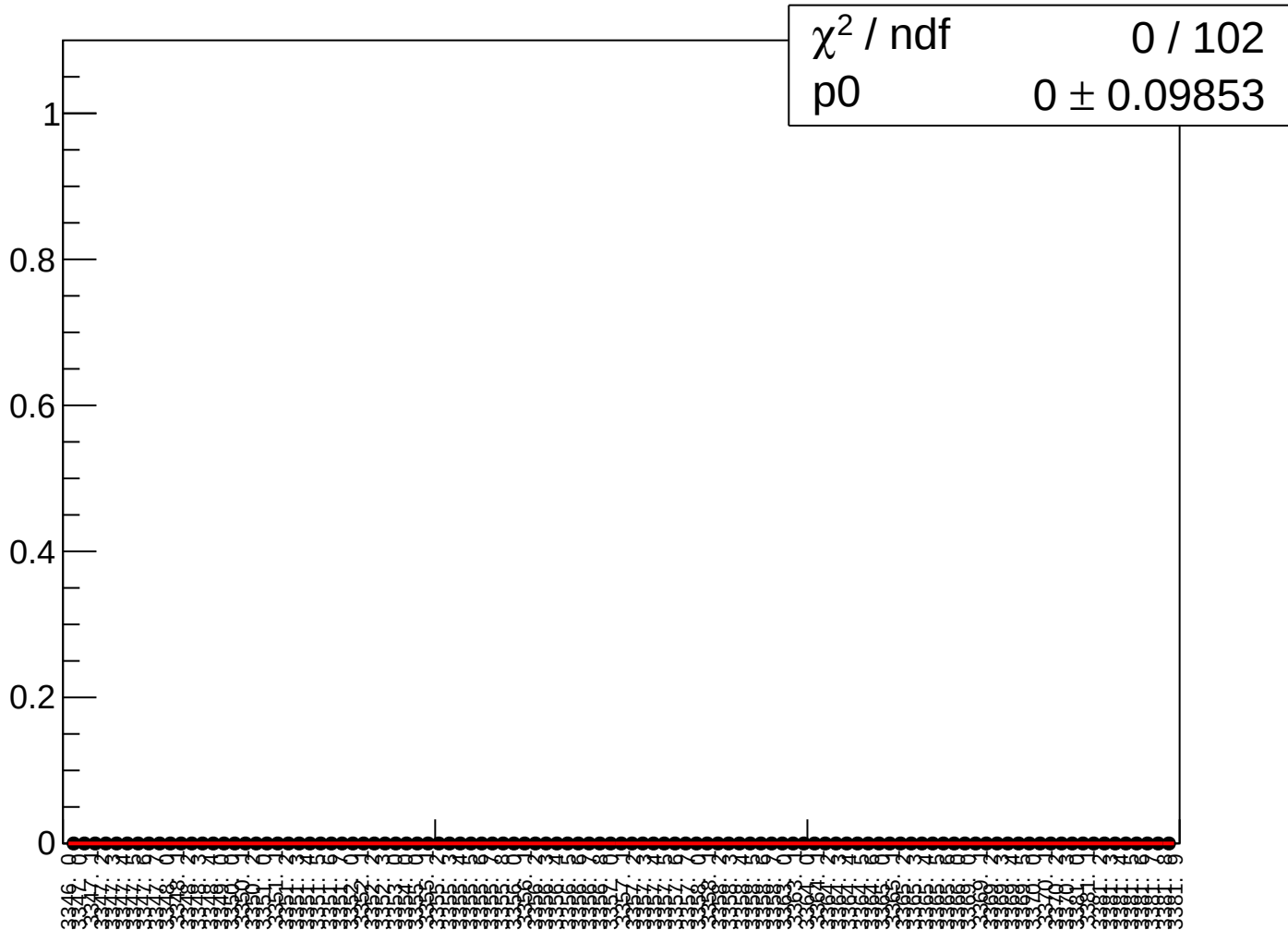
bcm_cav4cQ_ds_avg_rms vs run



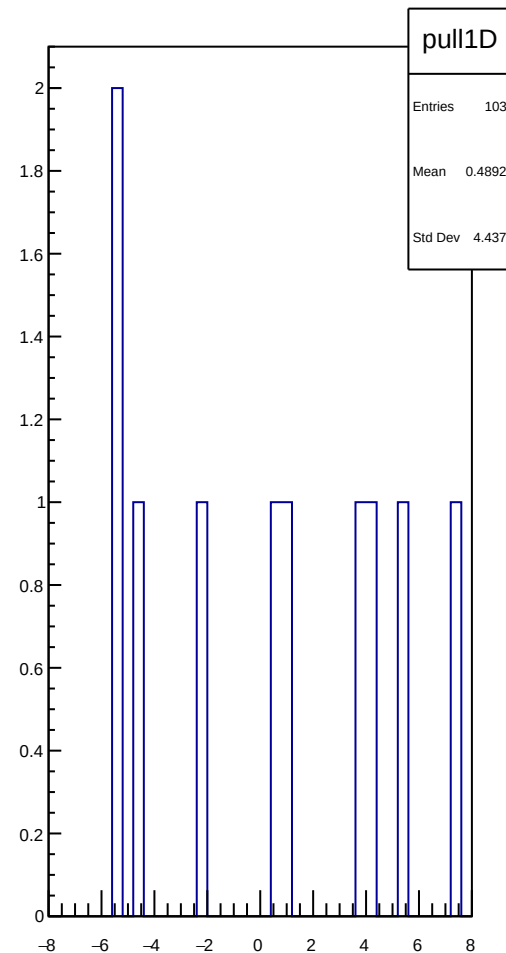
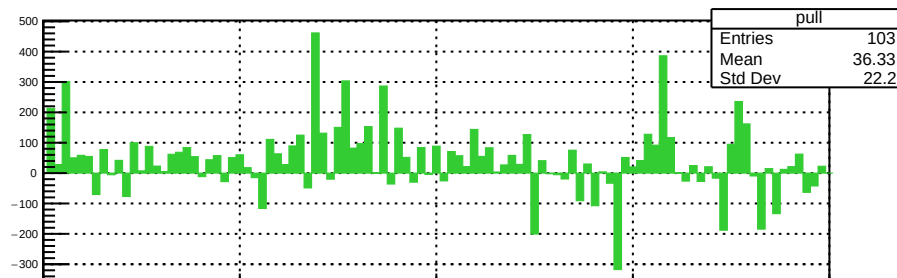
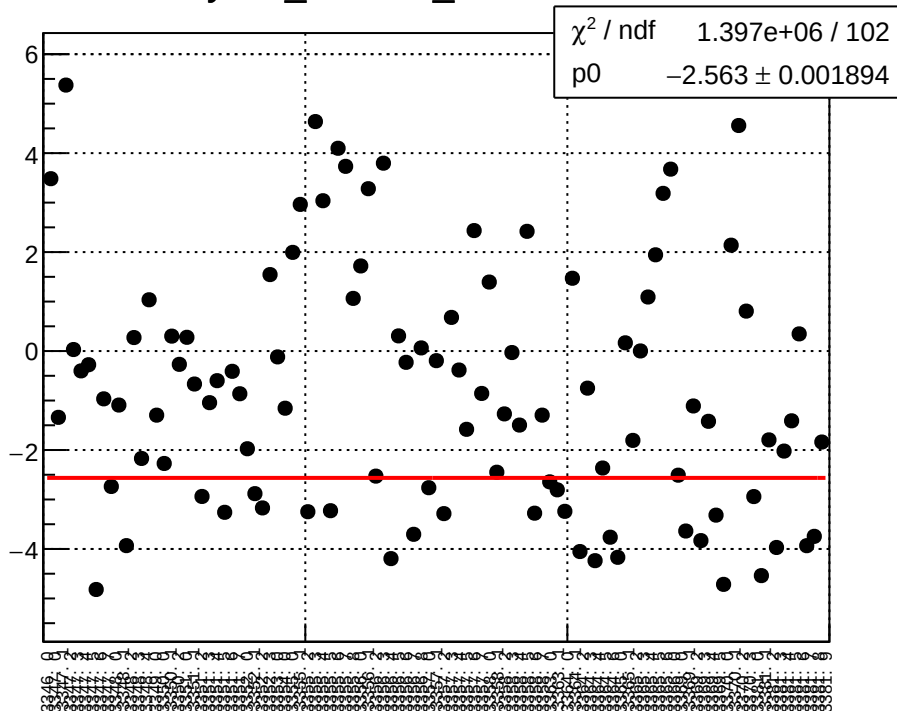
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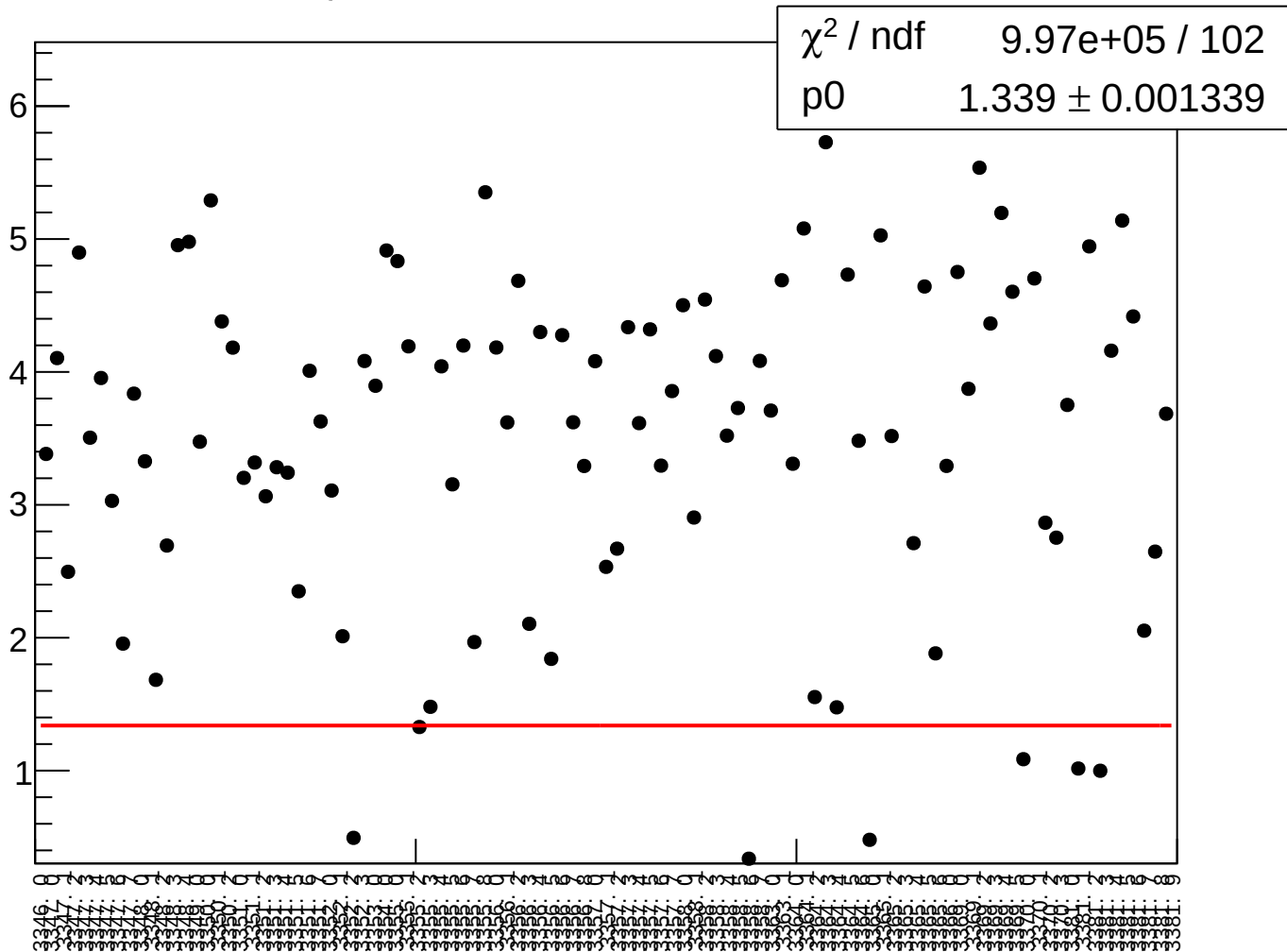
bcm_cav4cQ_ds3_dd_rms vs run



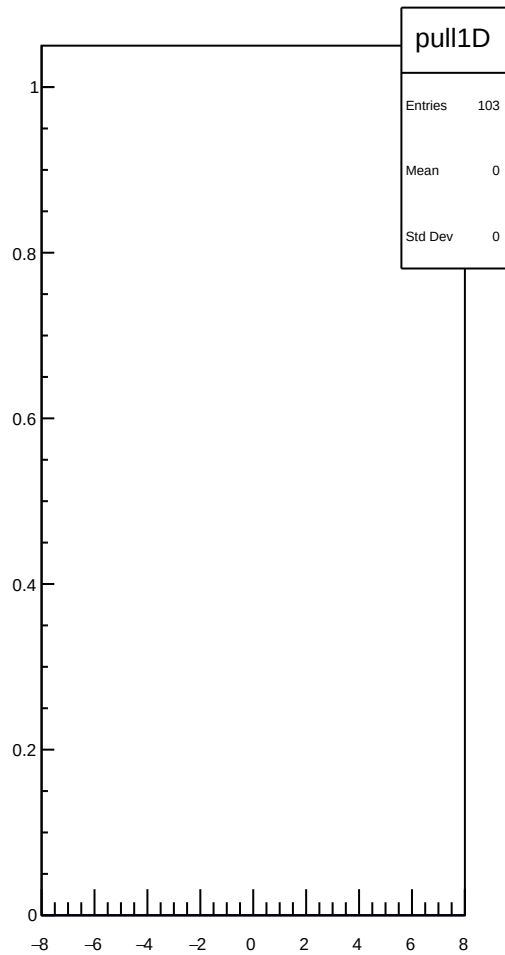
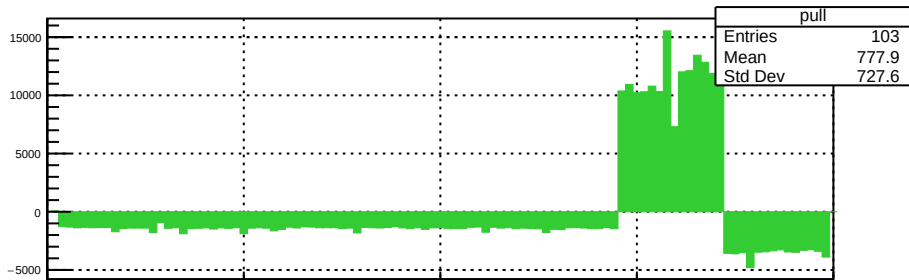
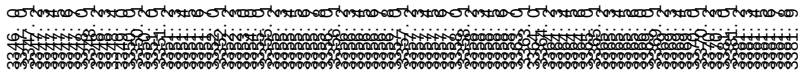
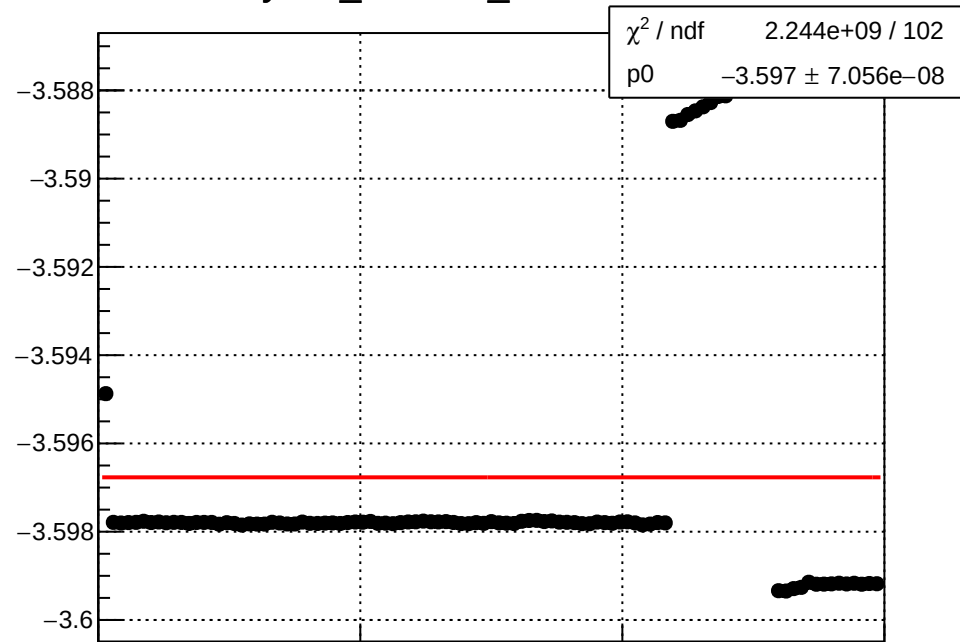
yield_cav4bX_mean vs run



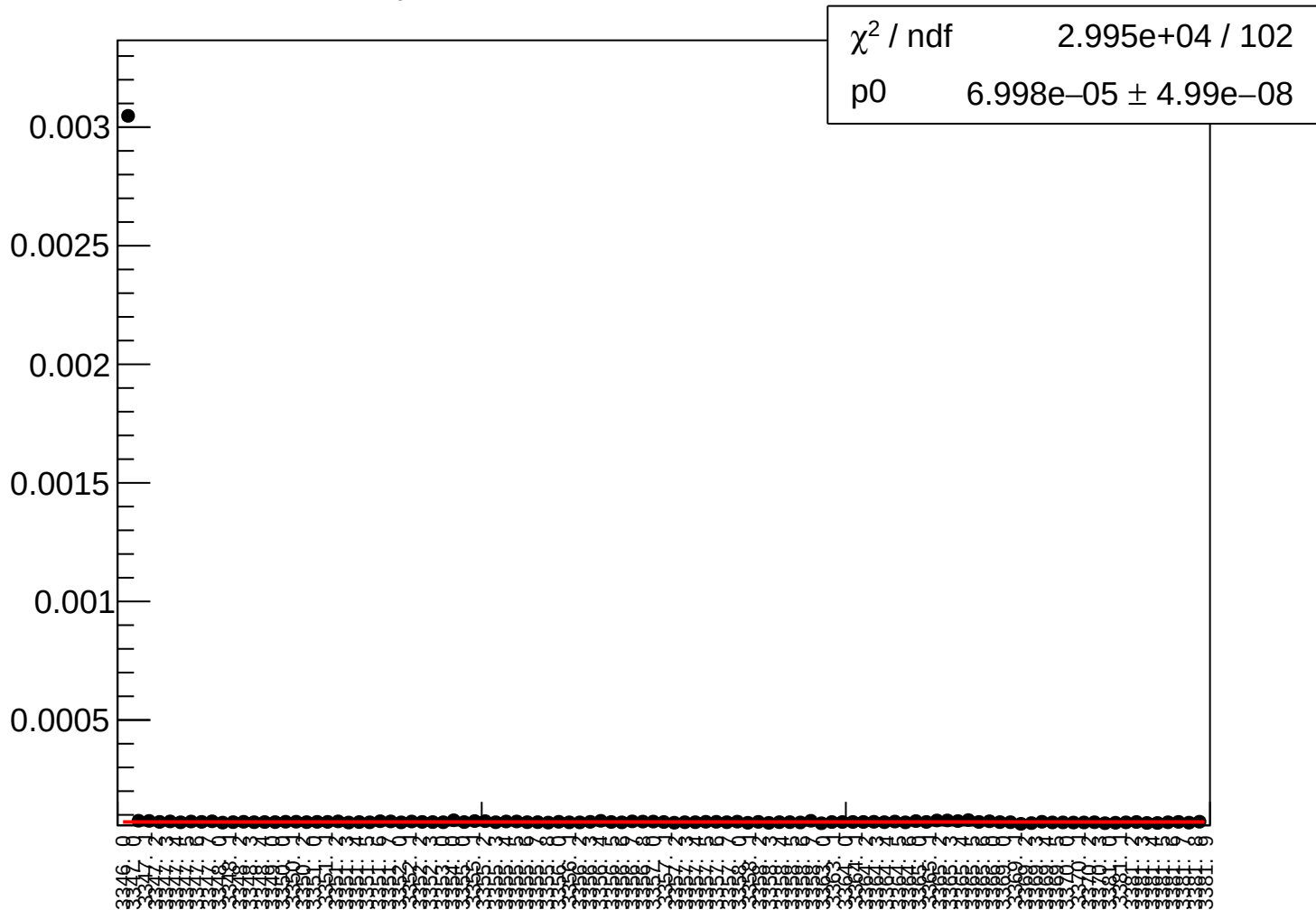
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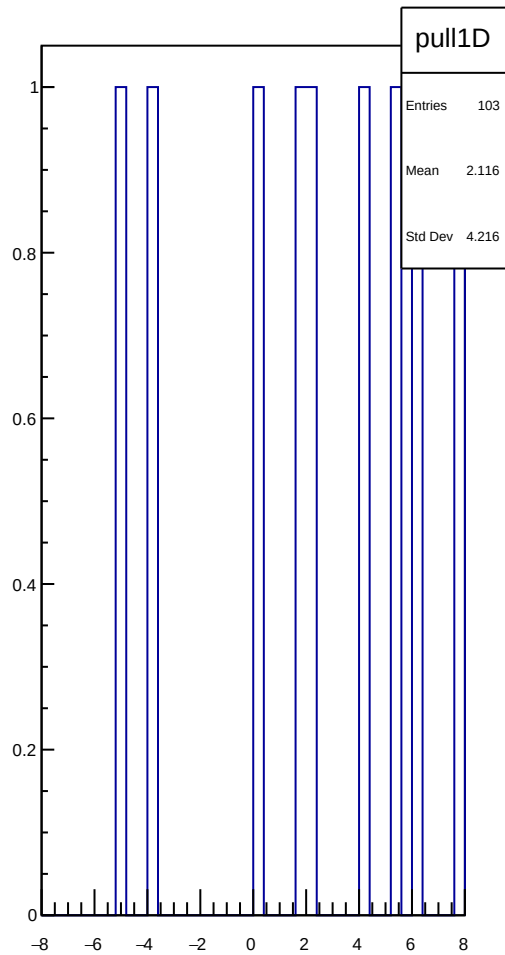
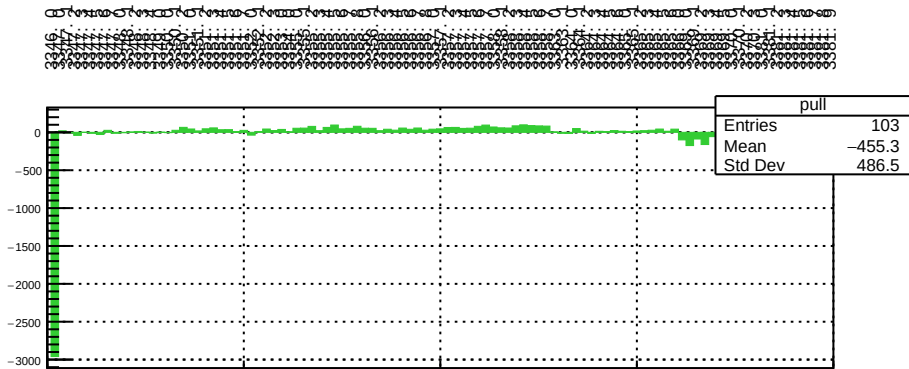
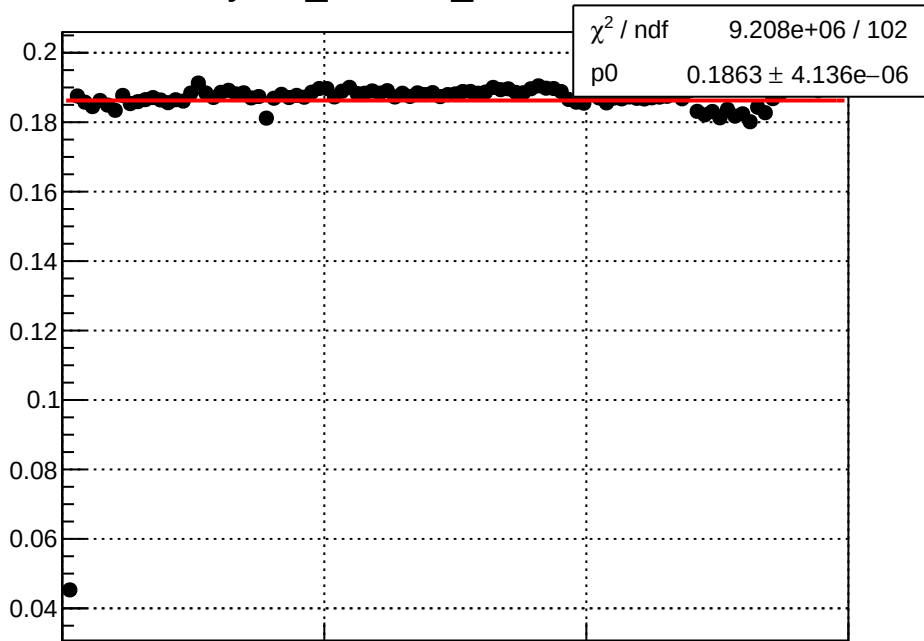
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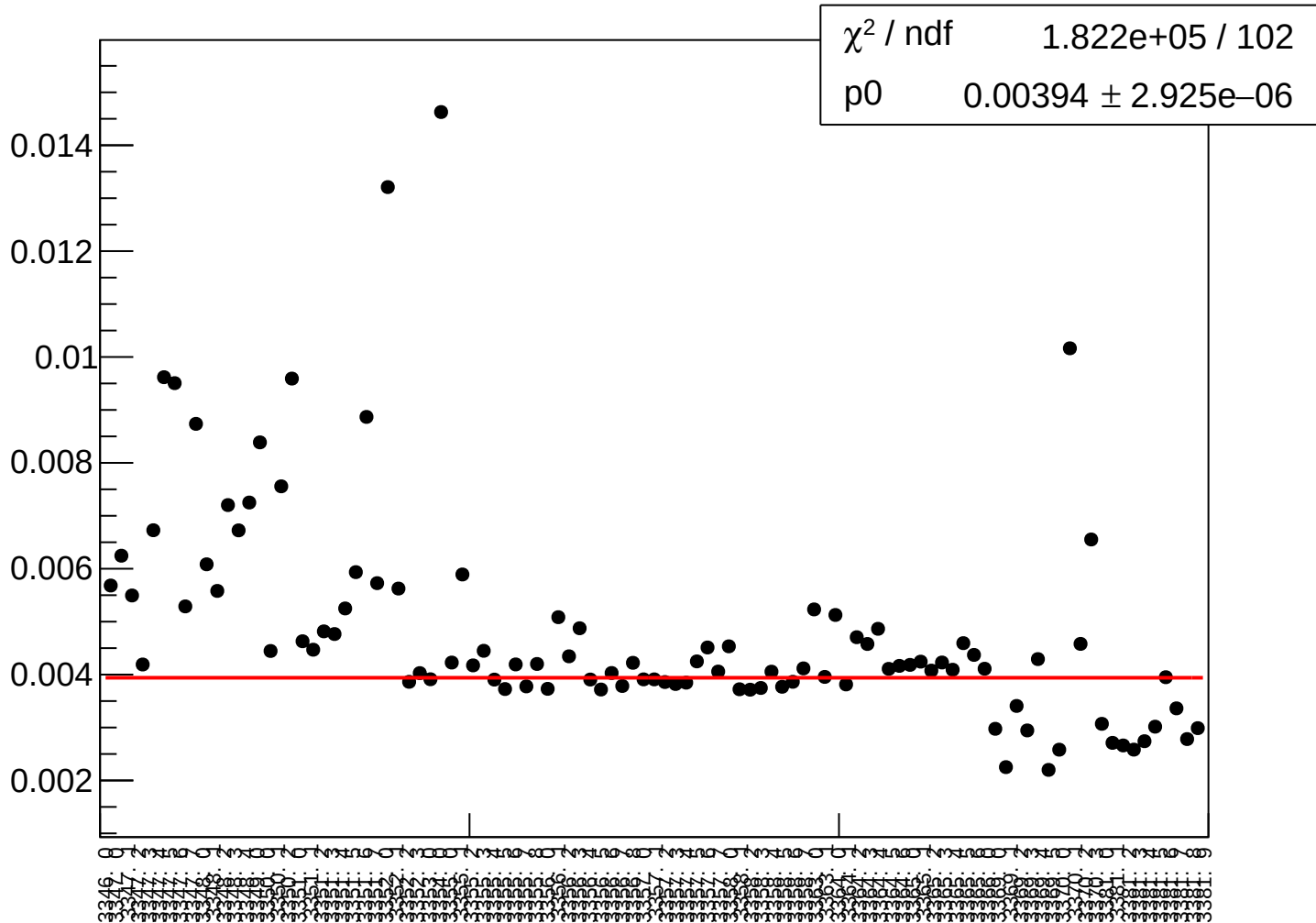
yield_cav4bY_rms vs run



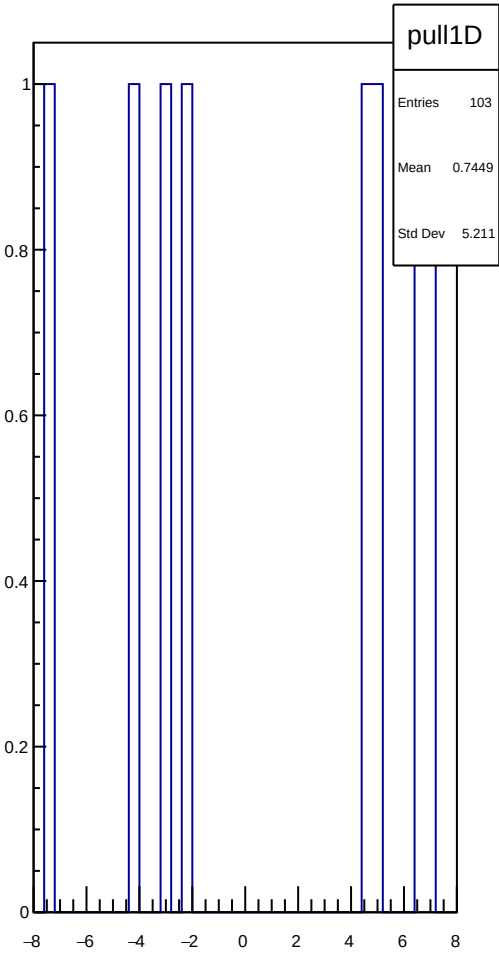
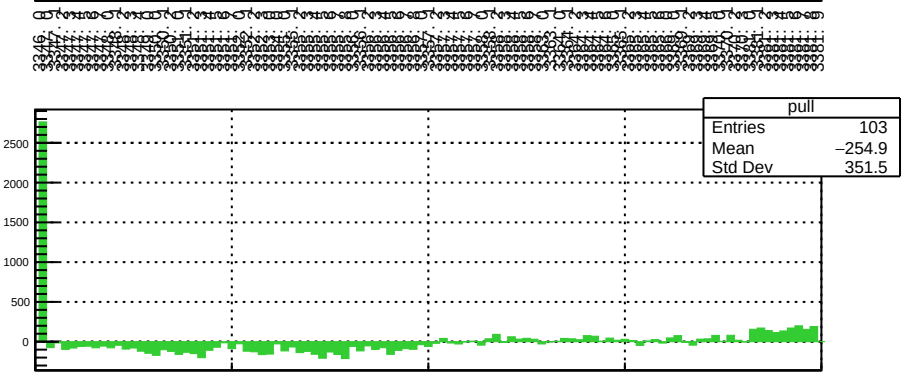
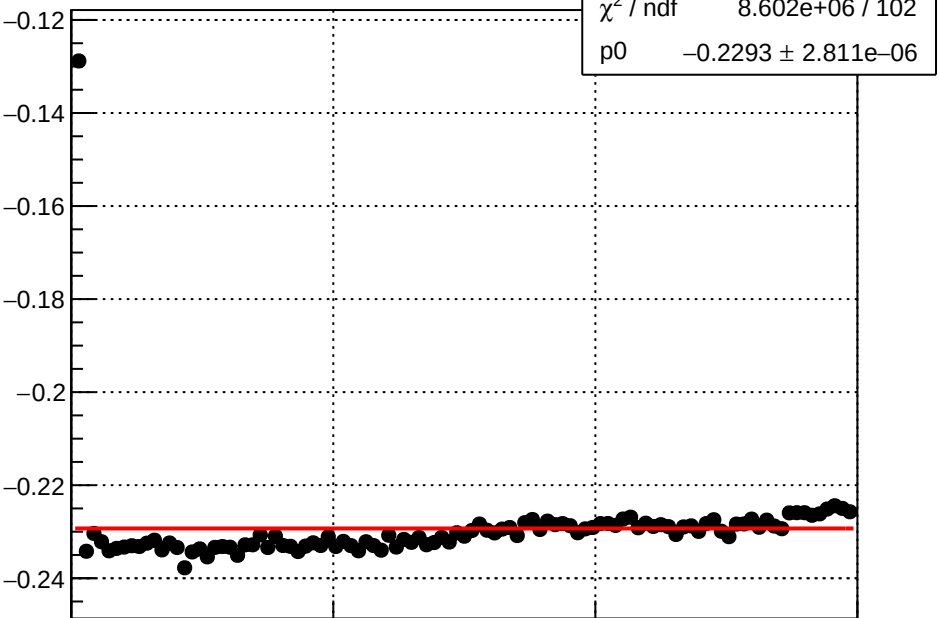
yield_cav4cX_mean vs run



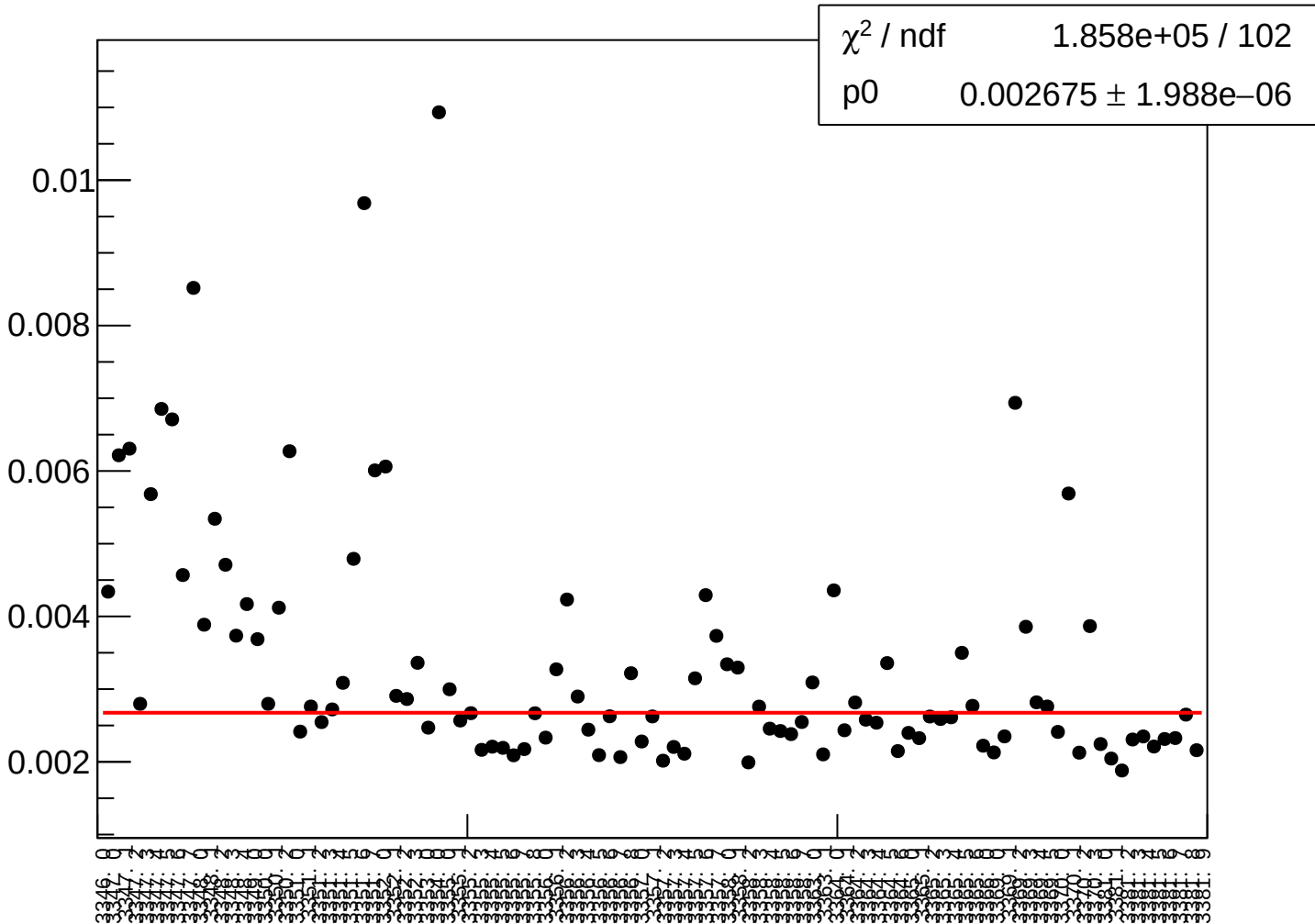
yield_cav4cX_rms vs run



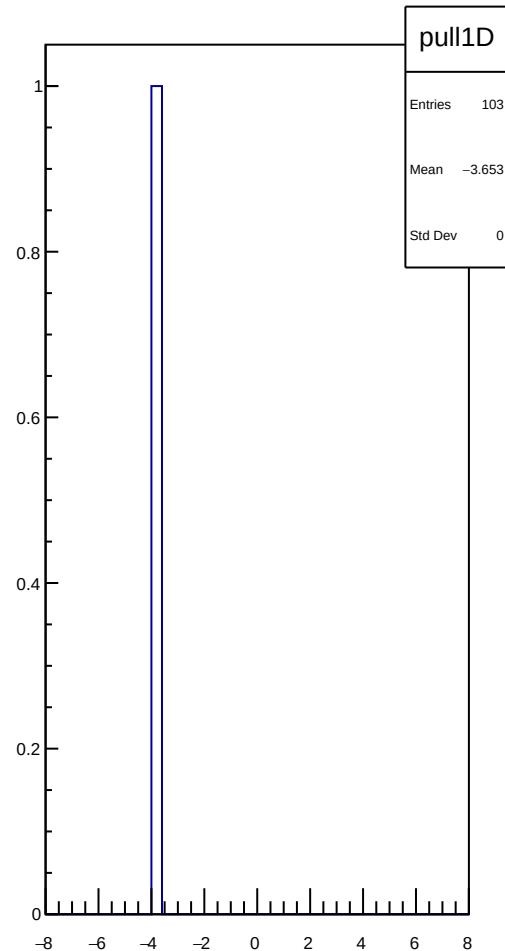
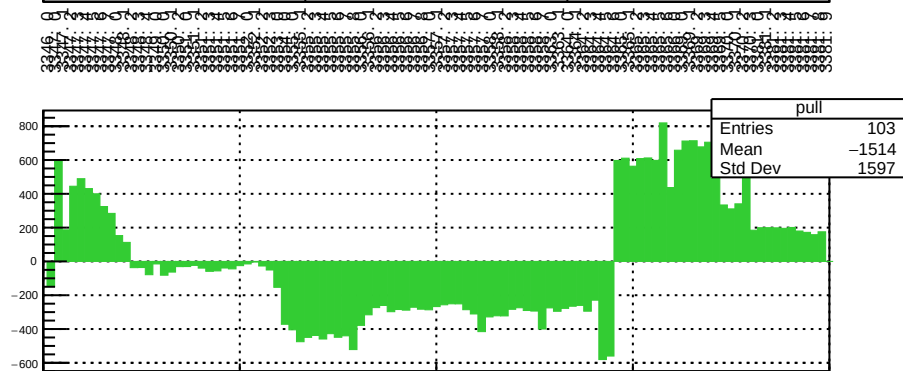
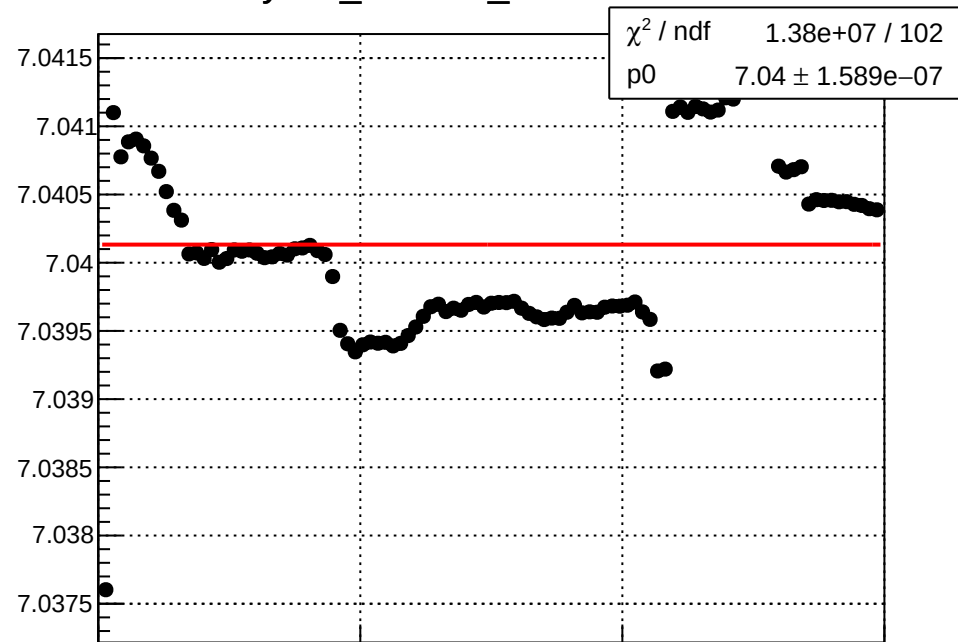
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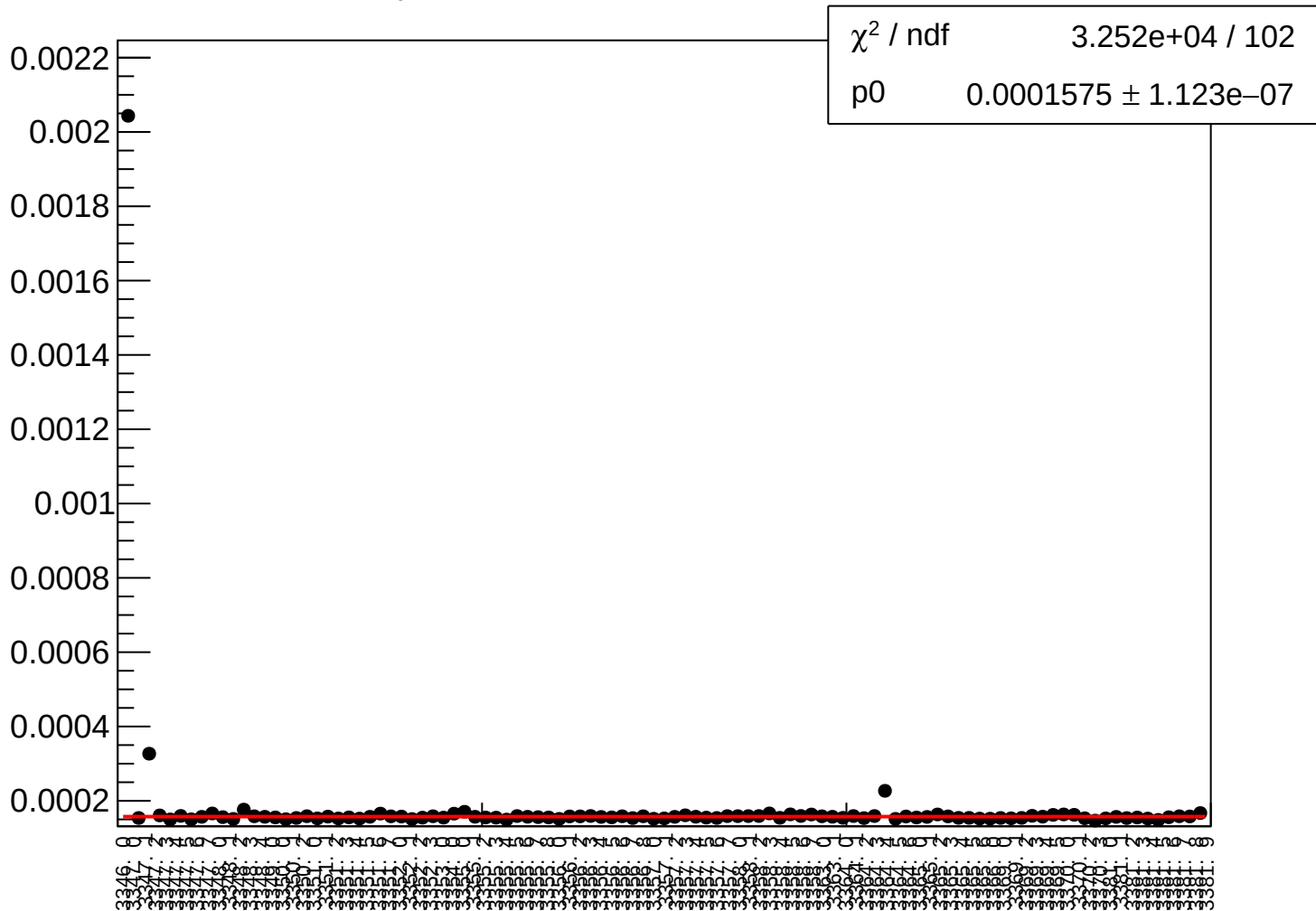
yield_cav4cY_rms vs run



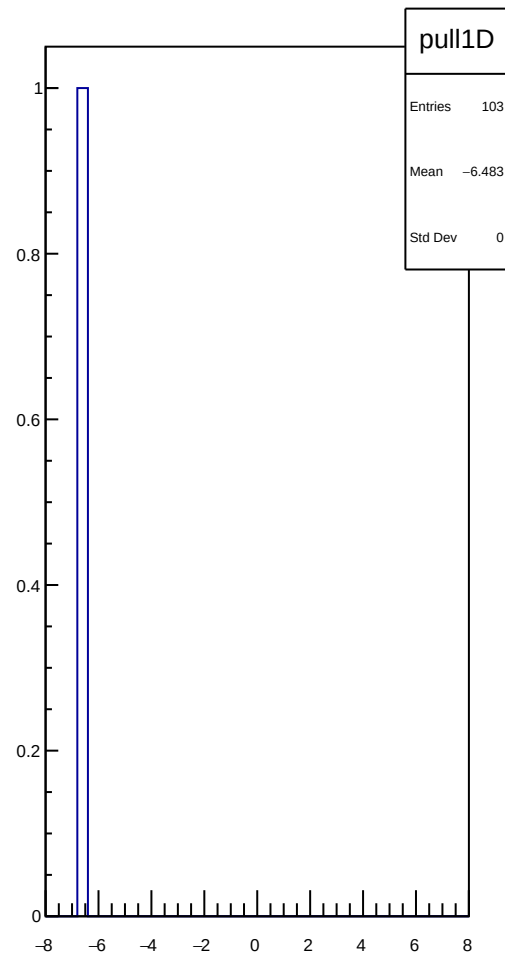
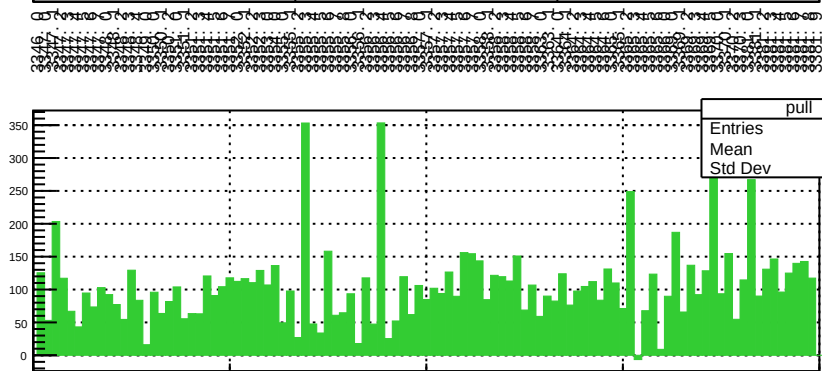
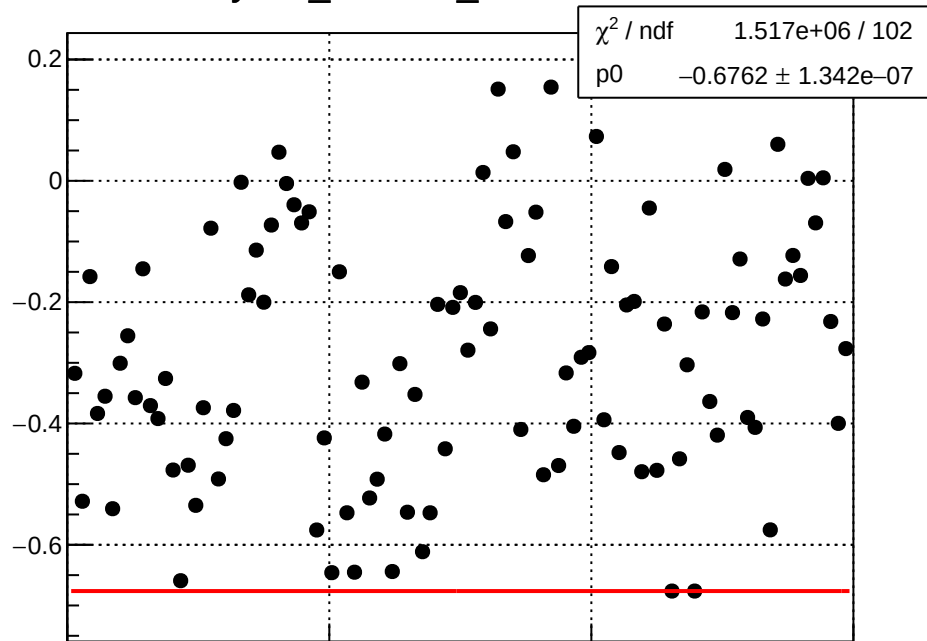
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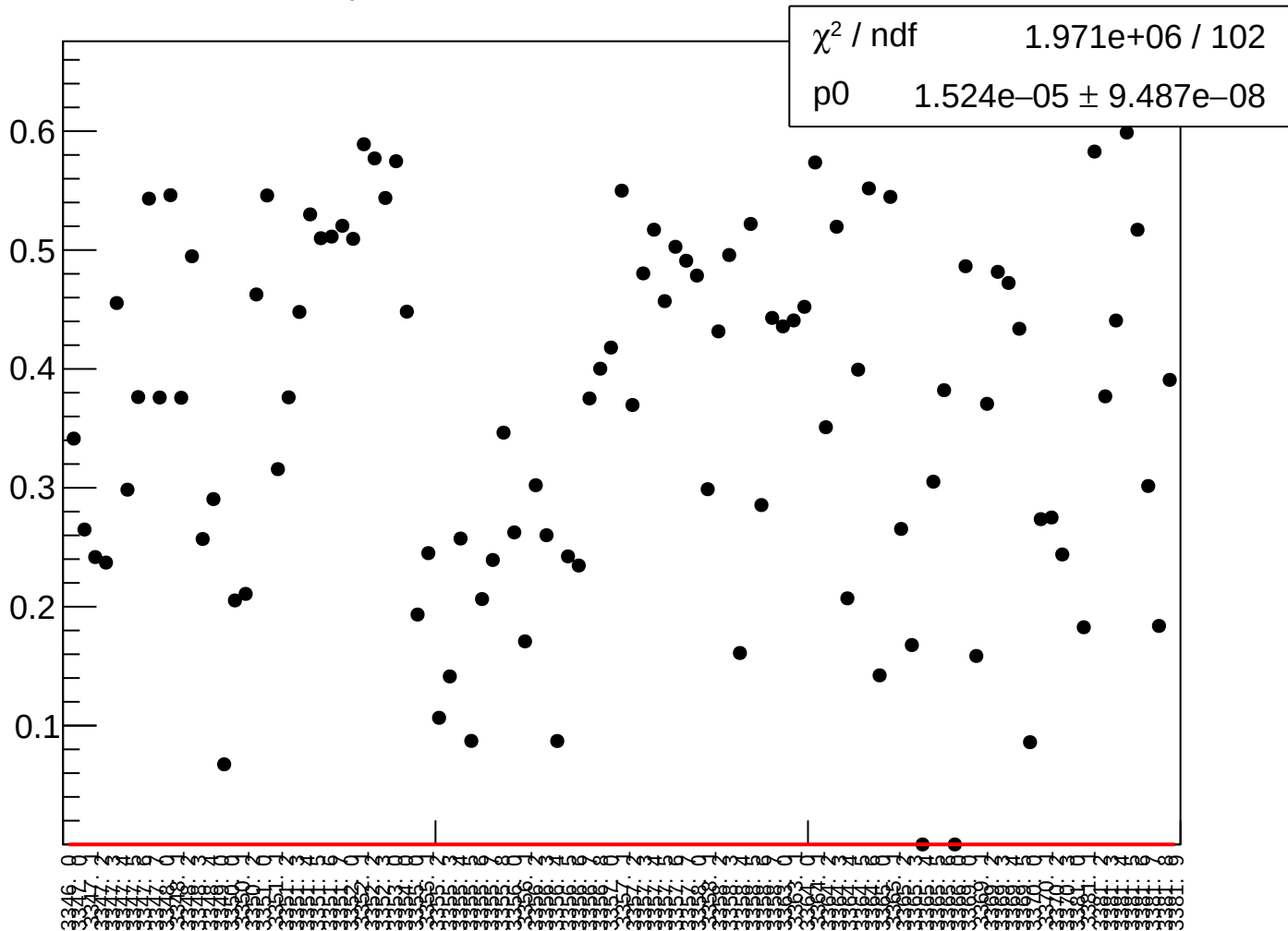
yield_cav4dX_rms vs run



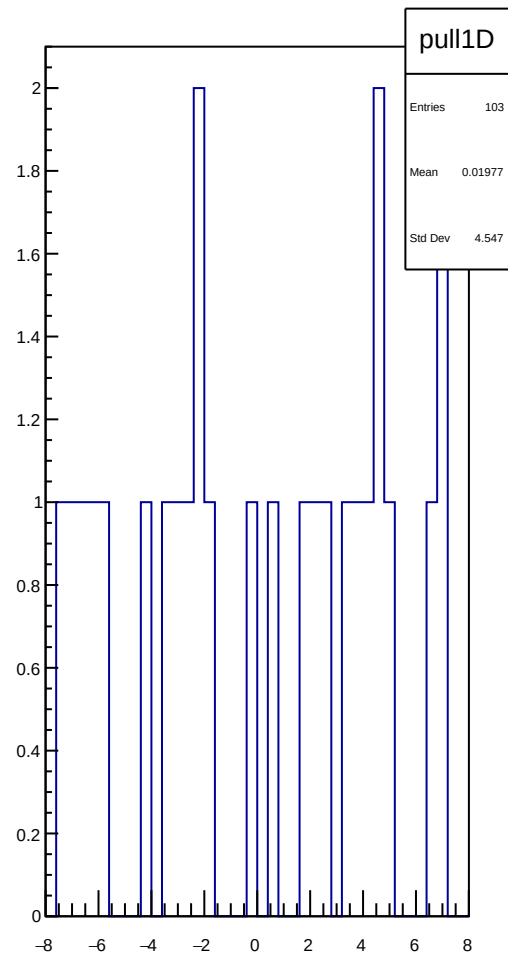
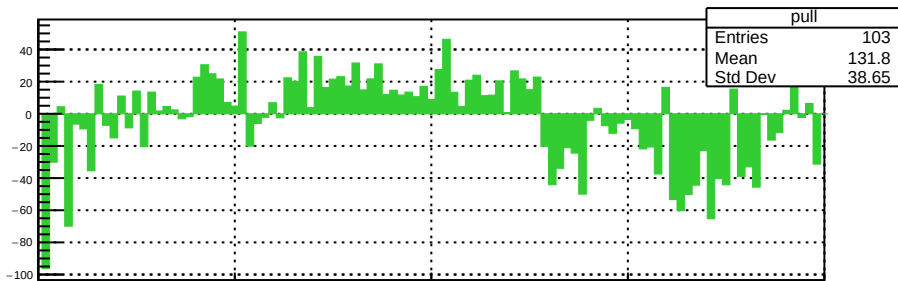
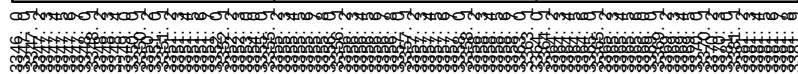
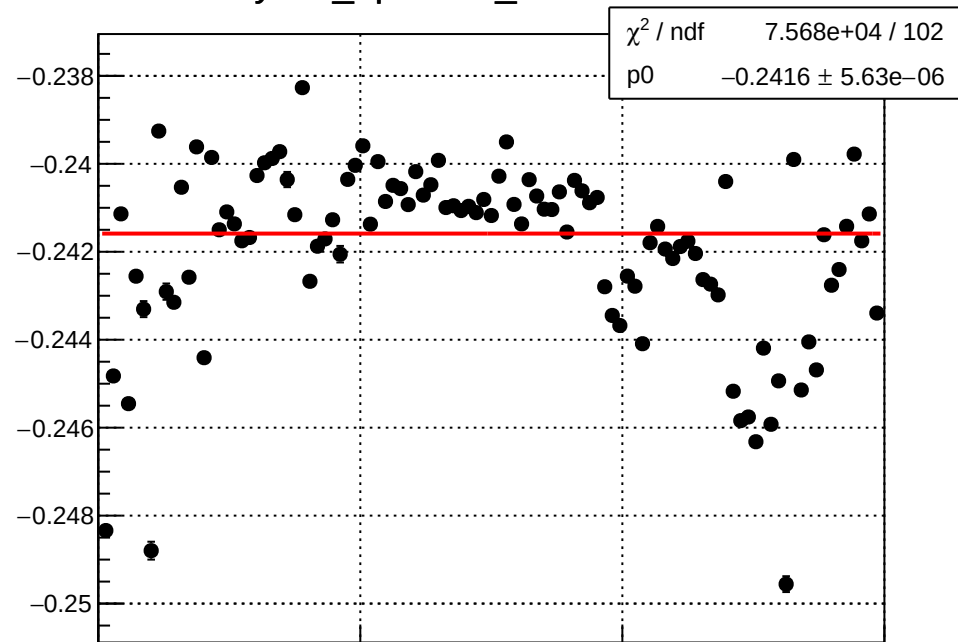
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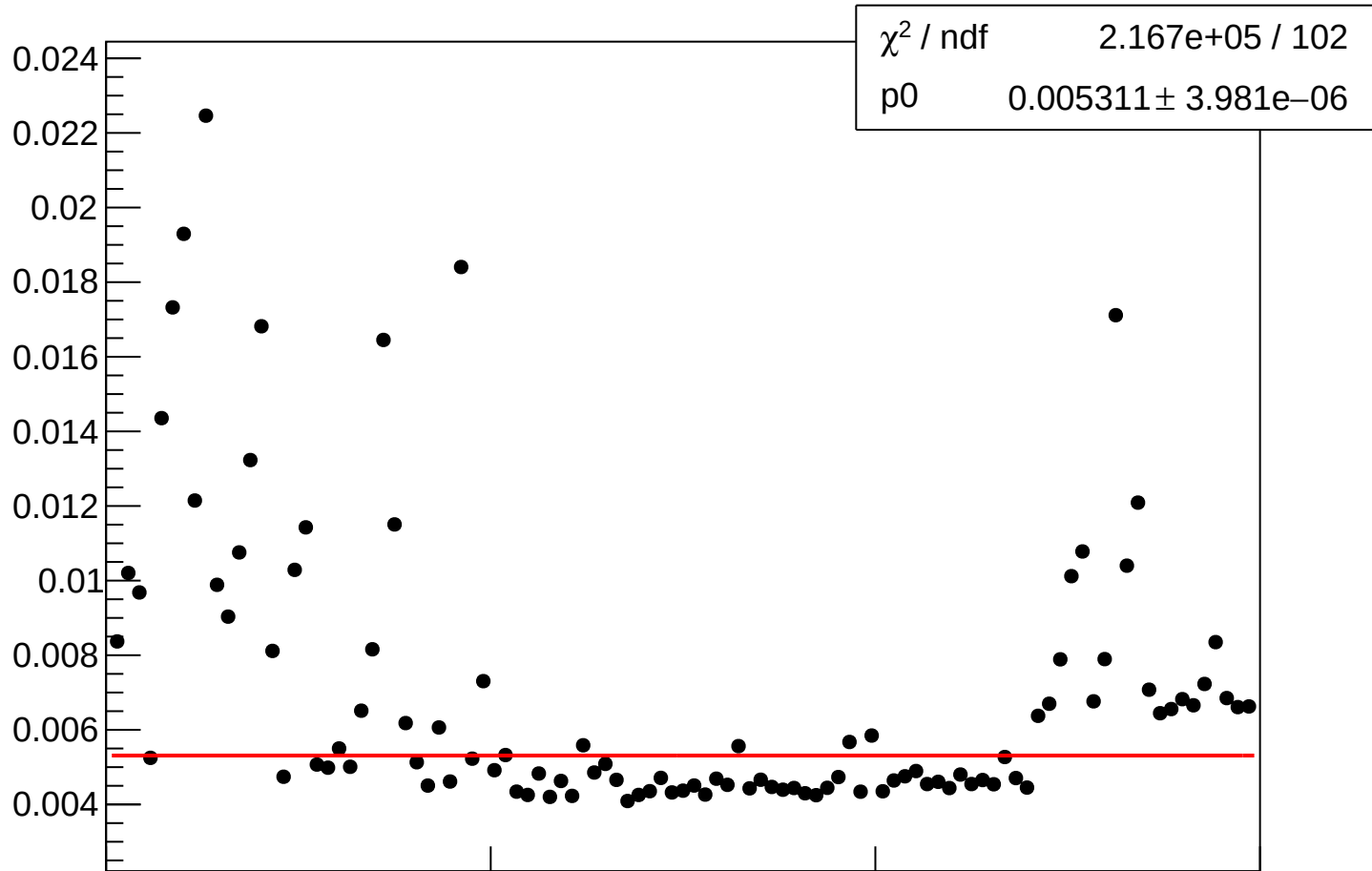
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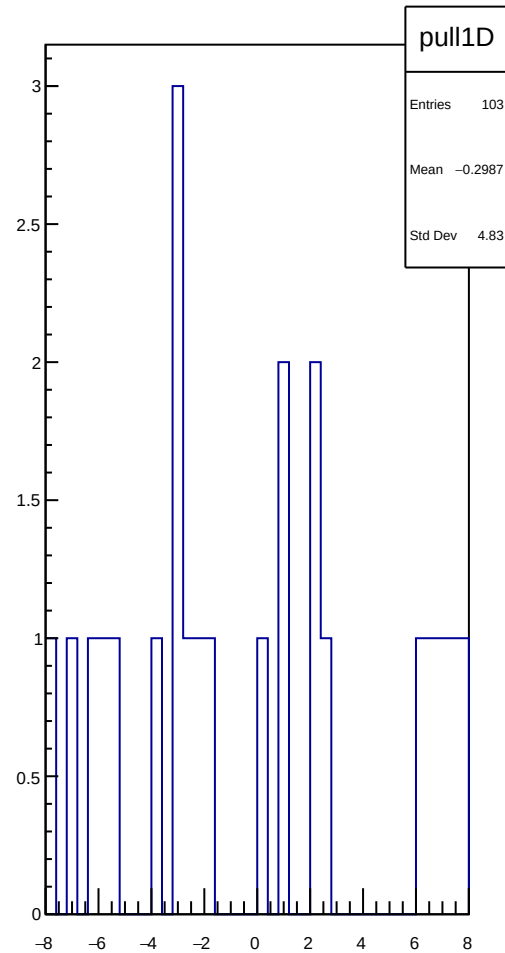
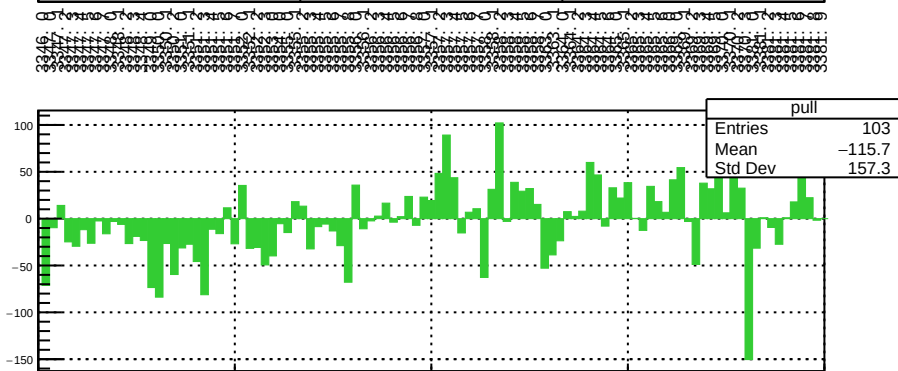
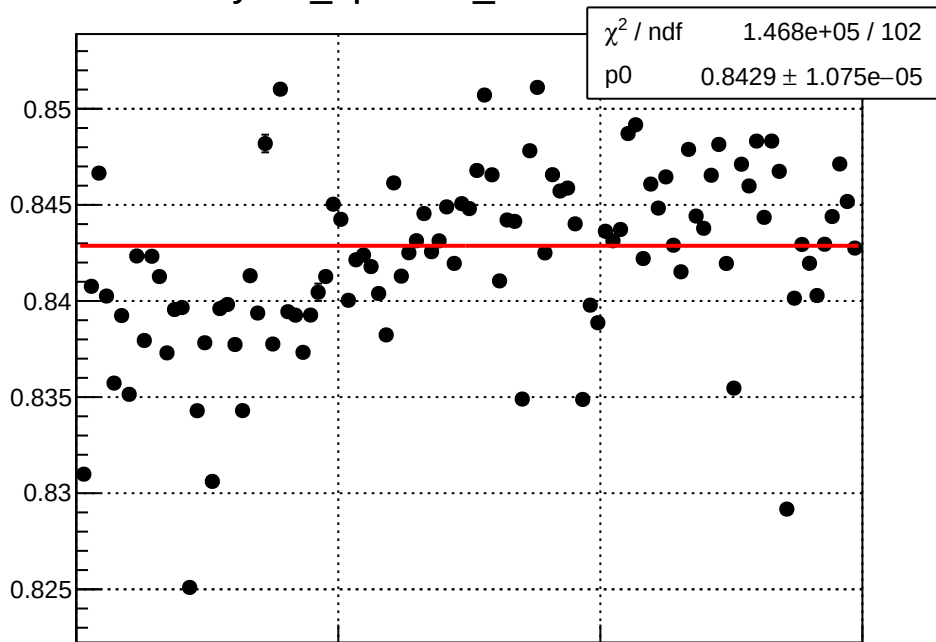
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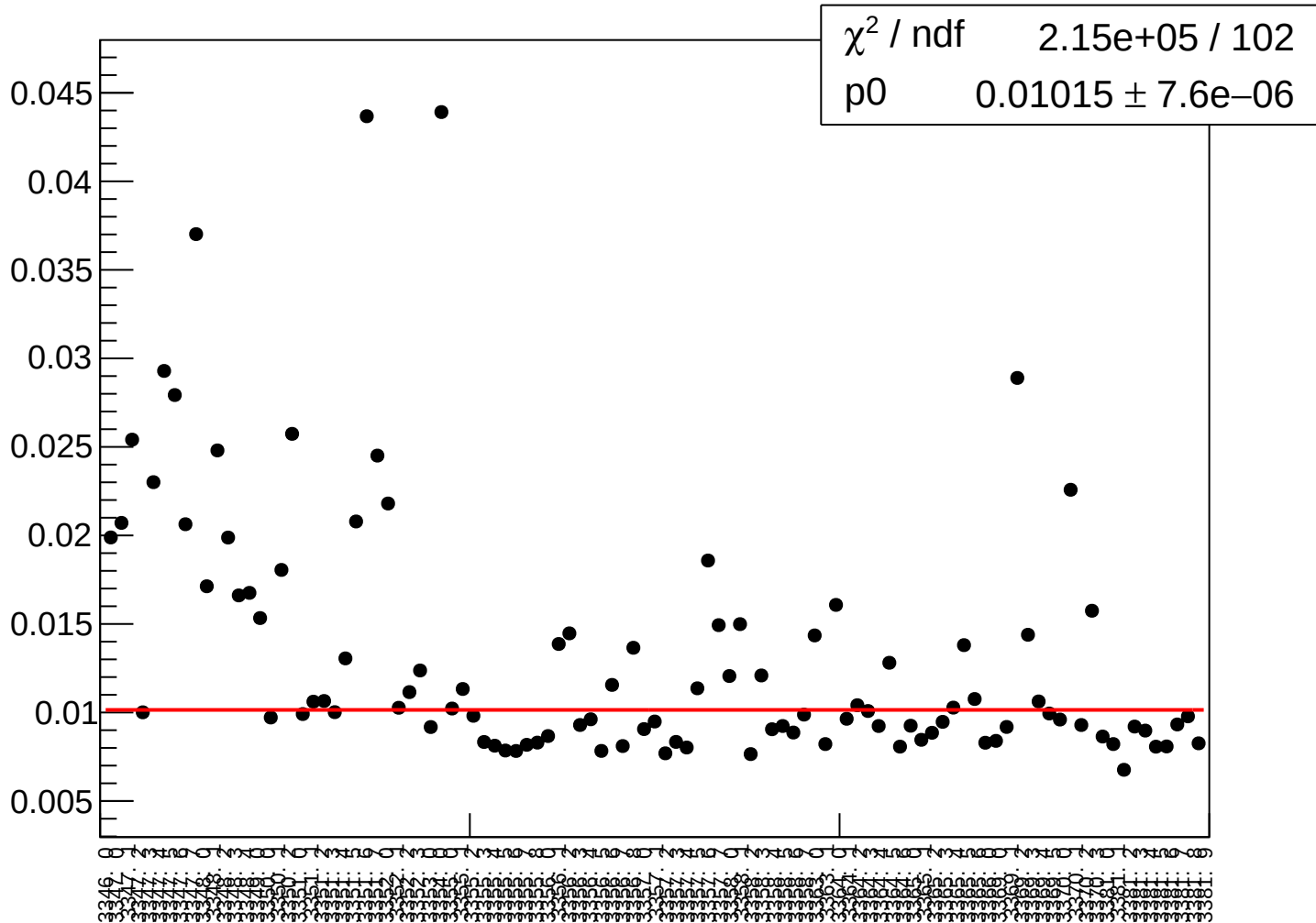
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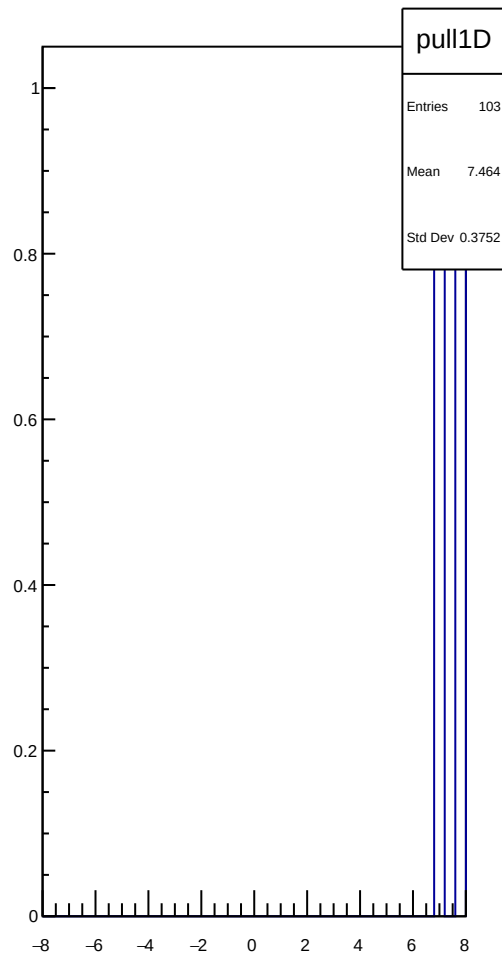
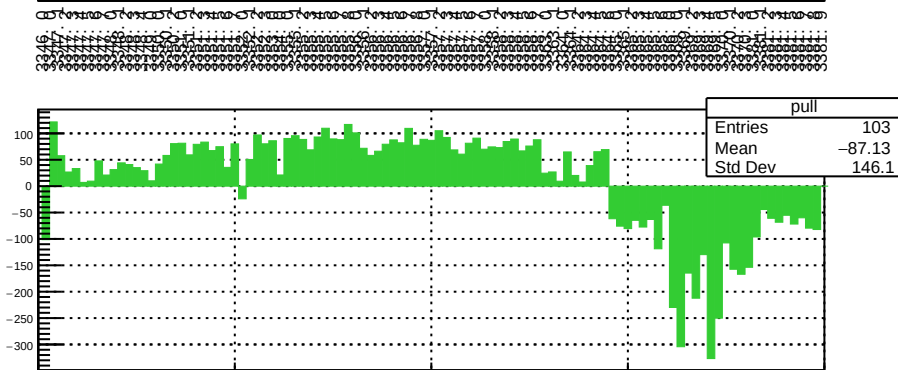
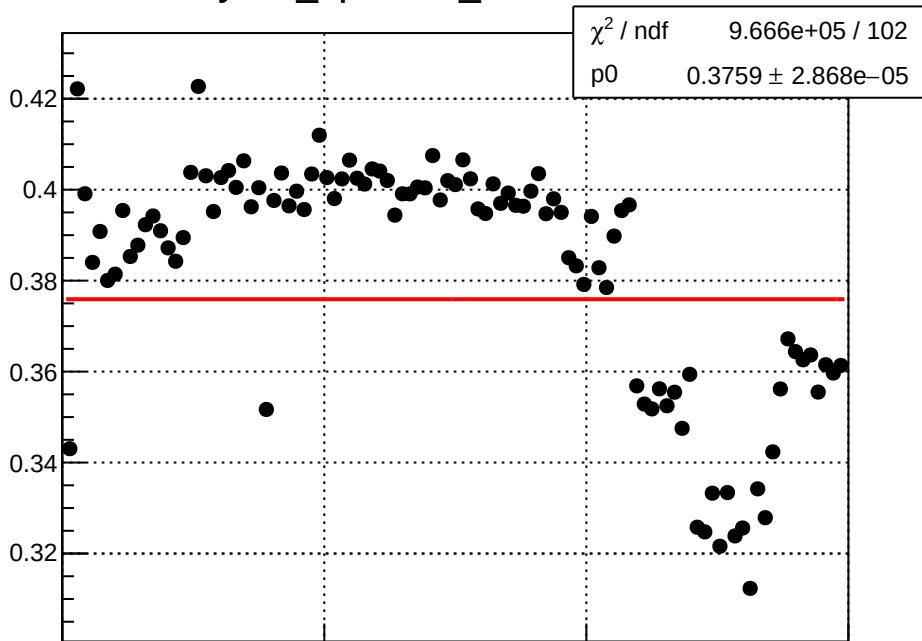
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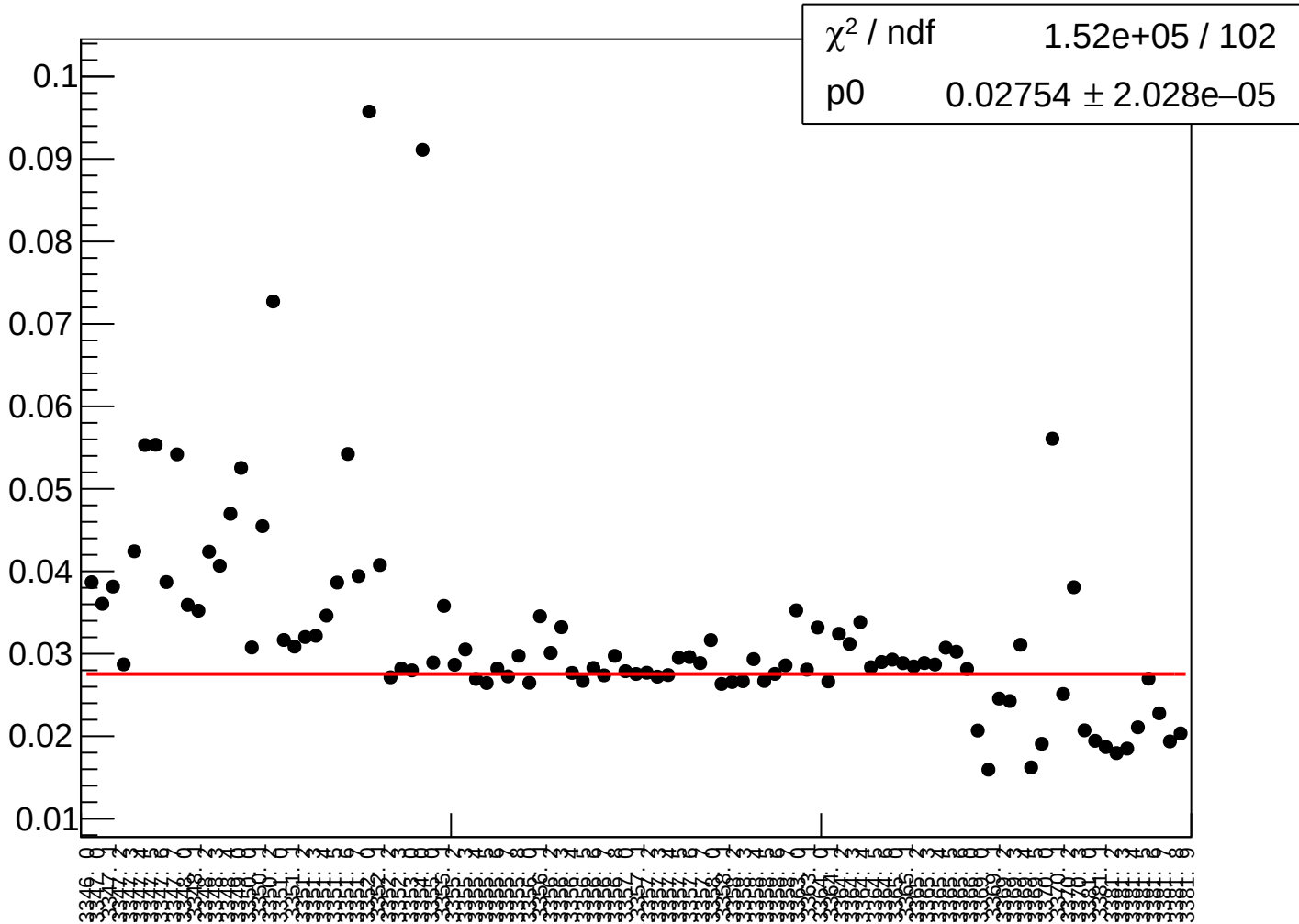
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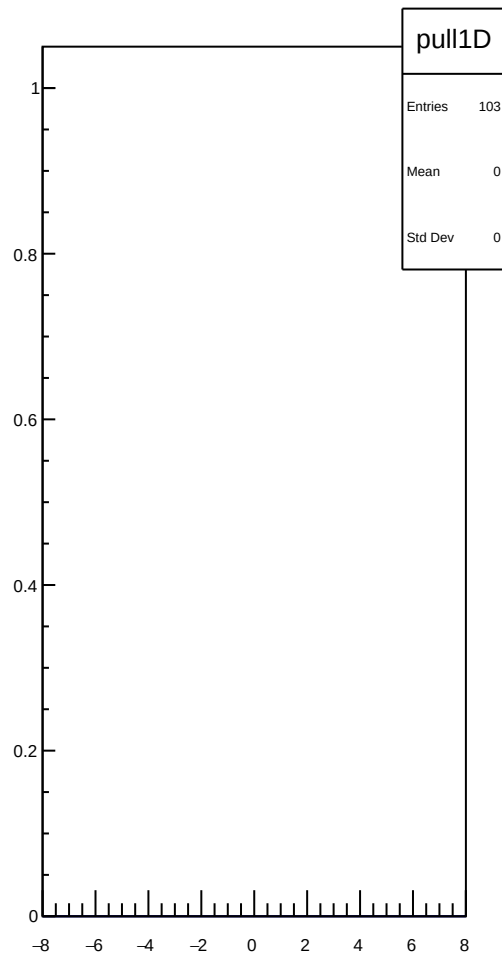
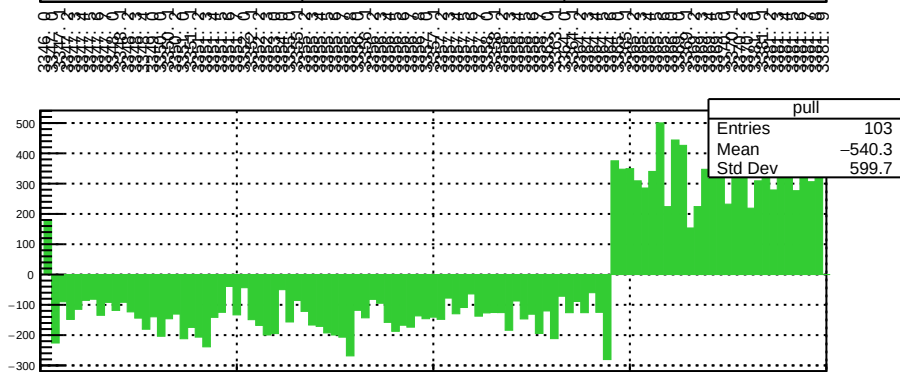
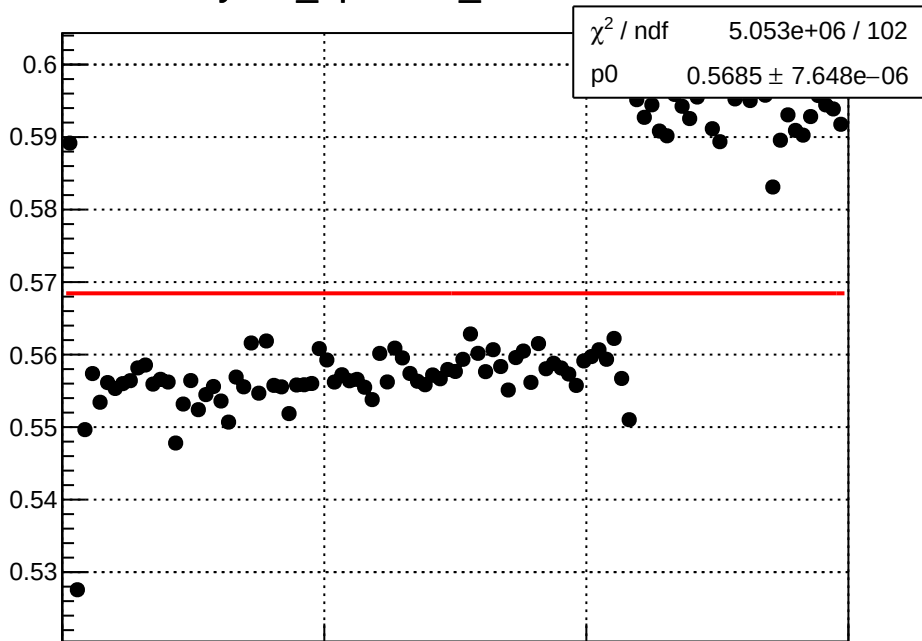
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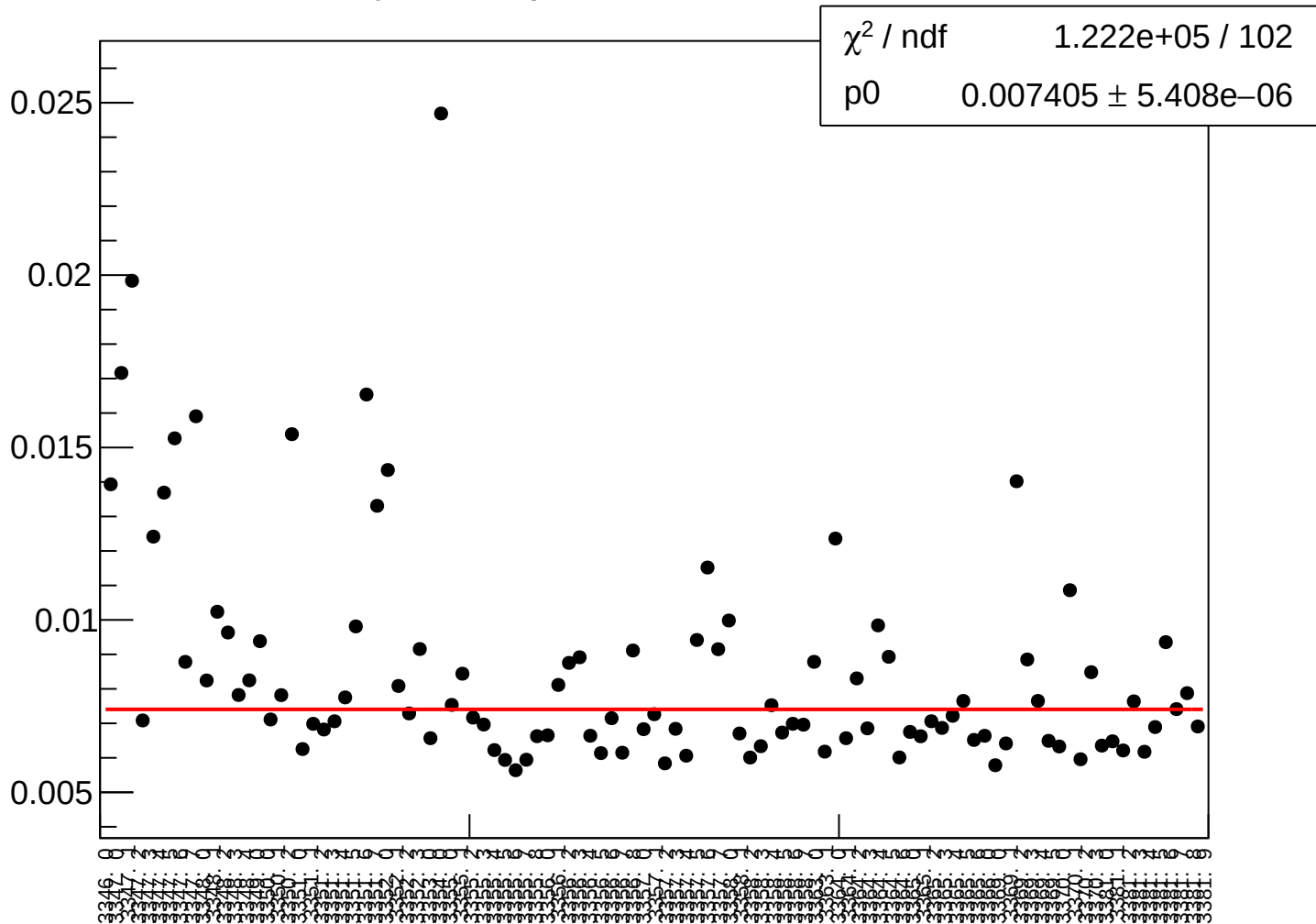
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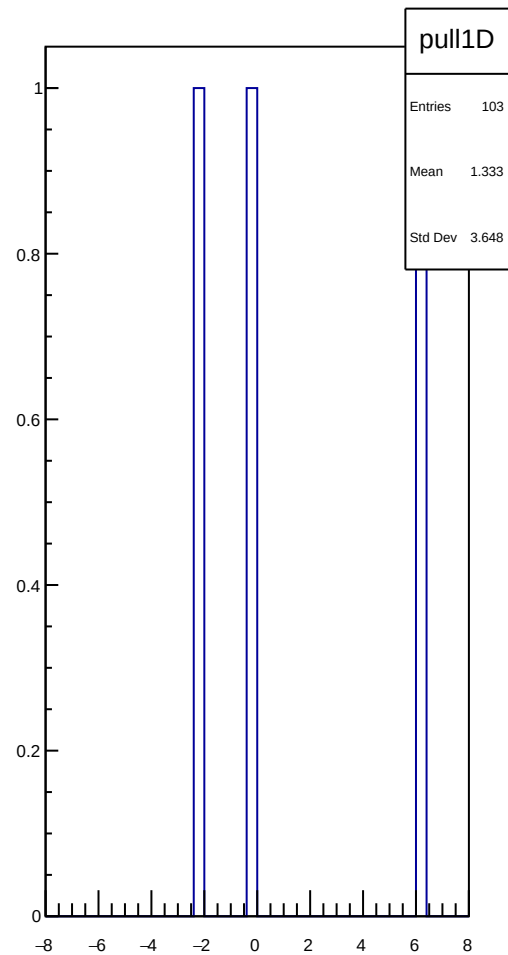
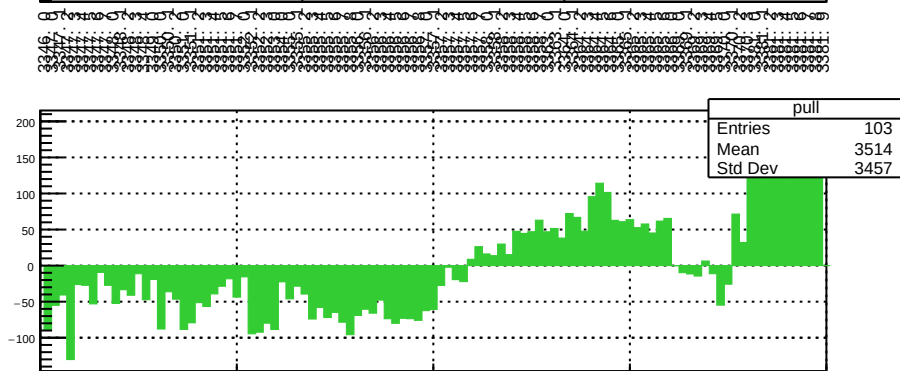
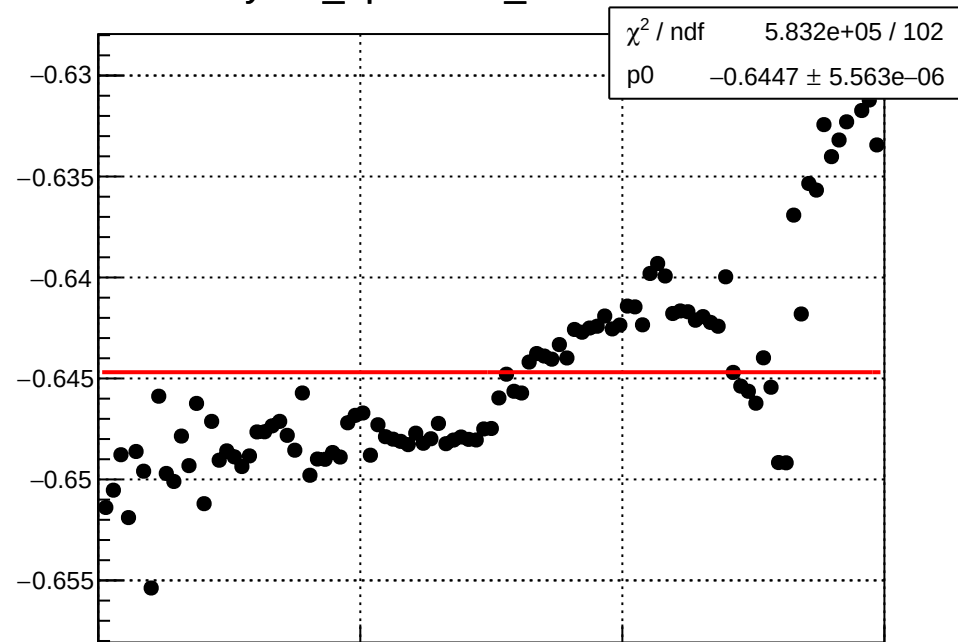
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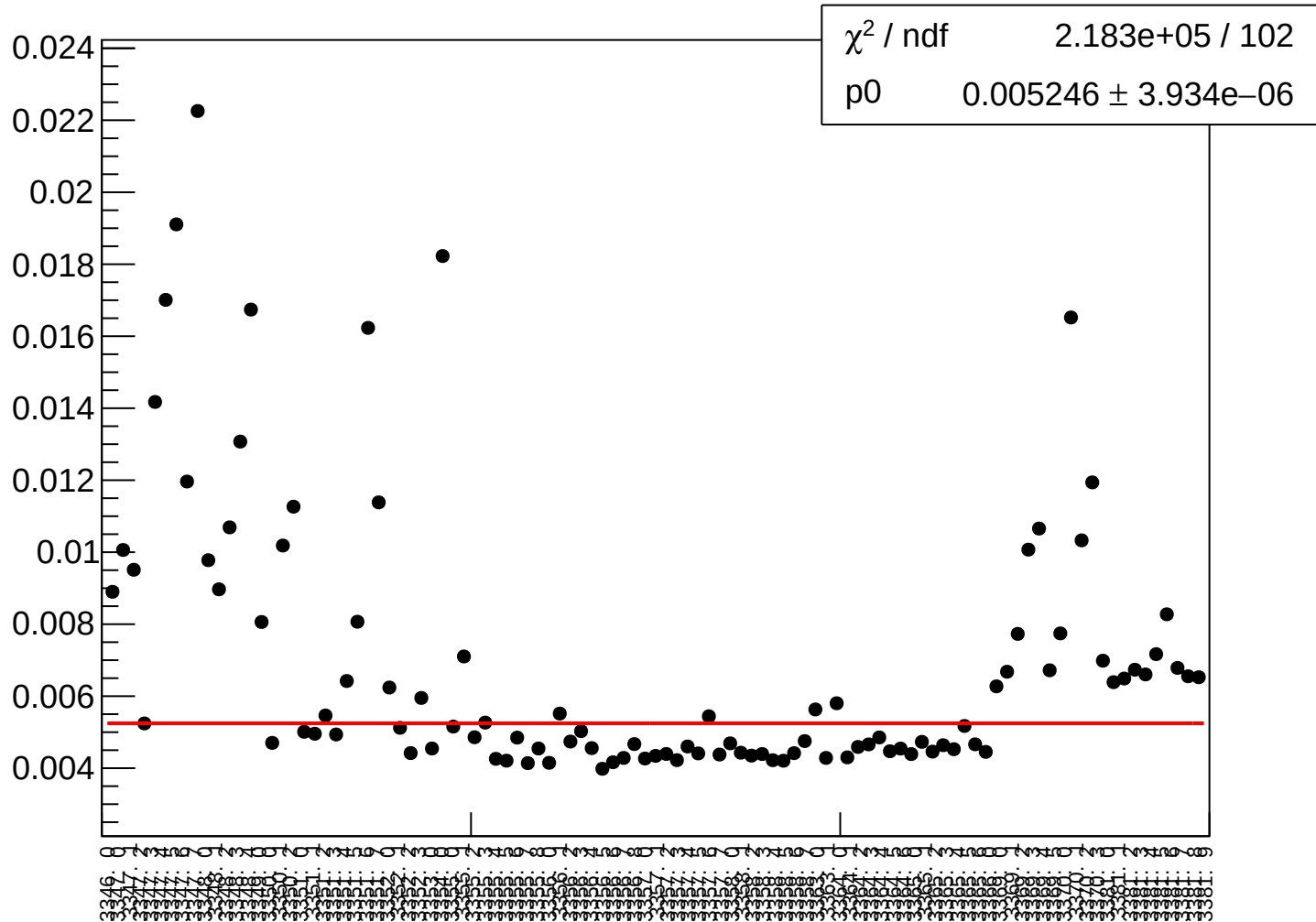
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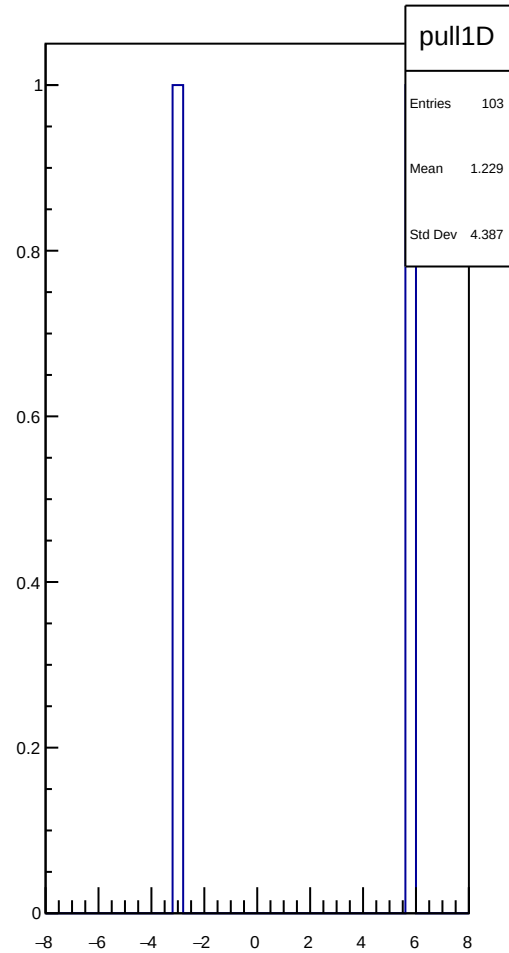
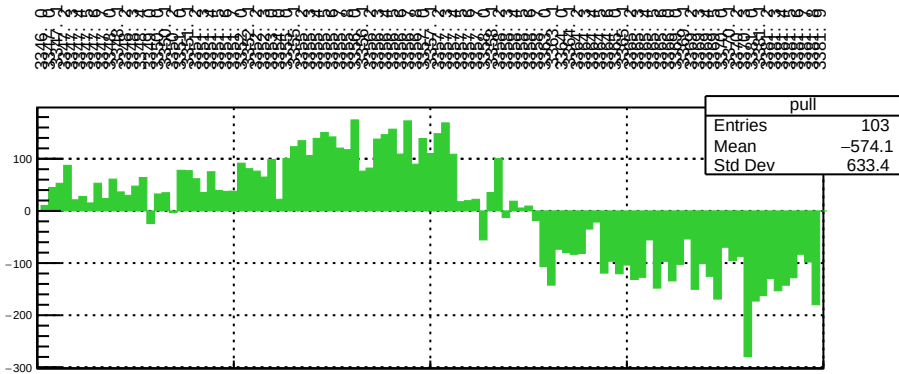
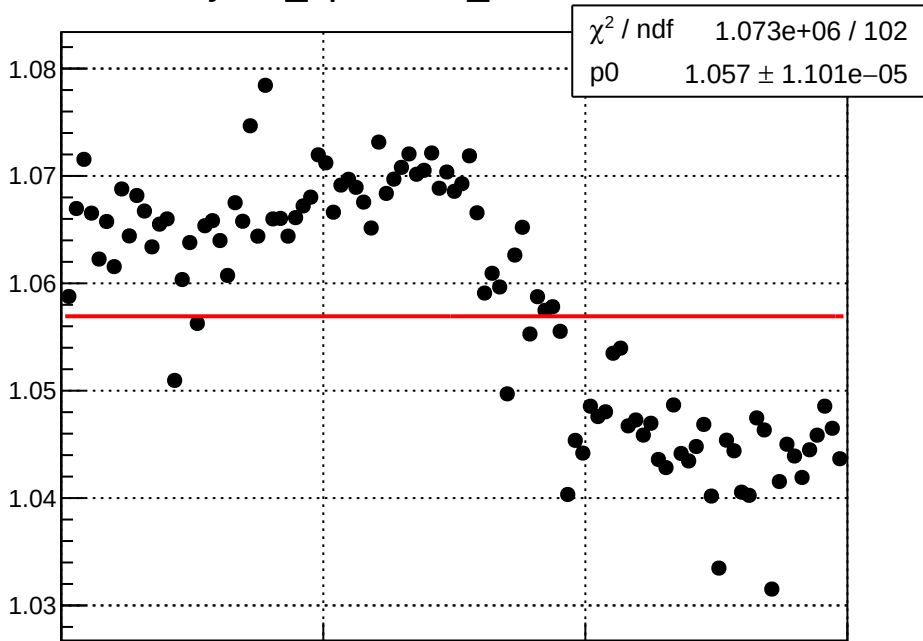
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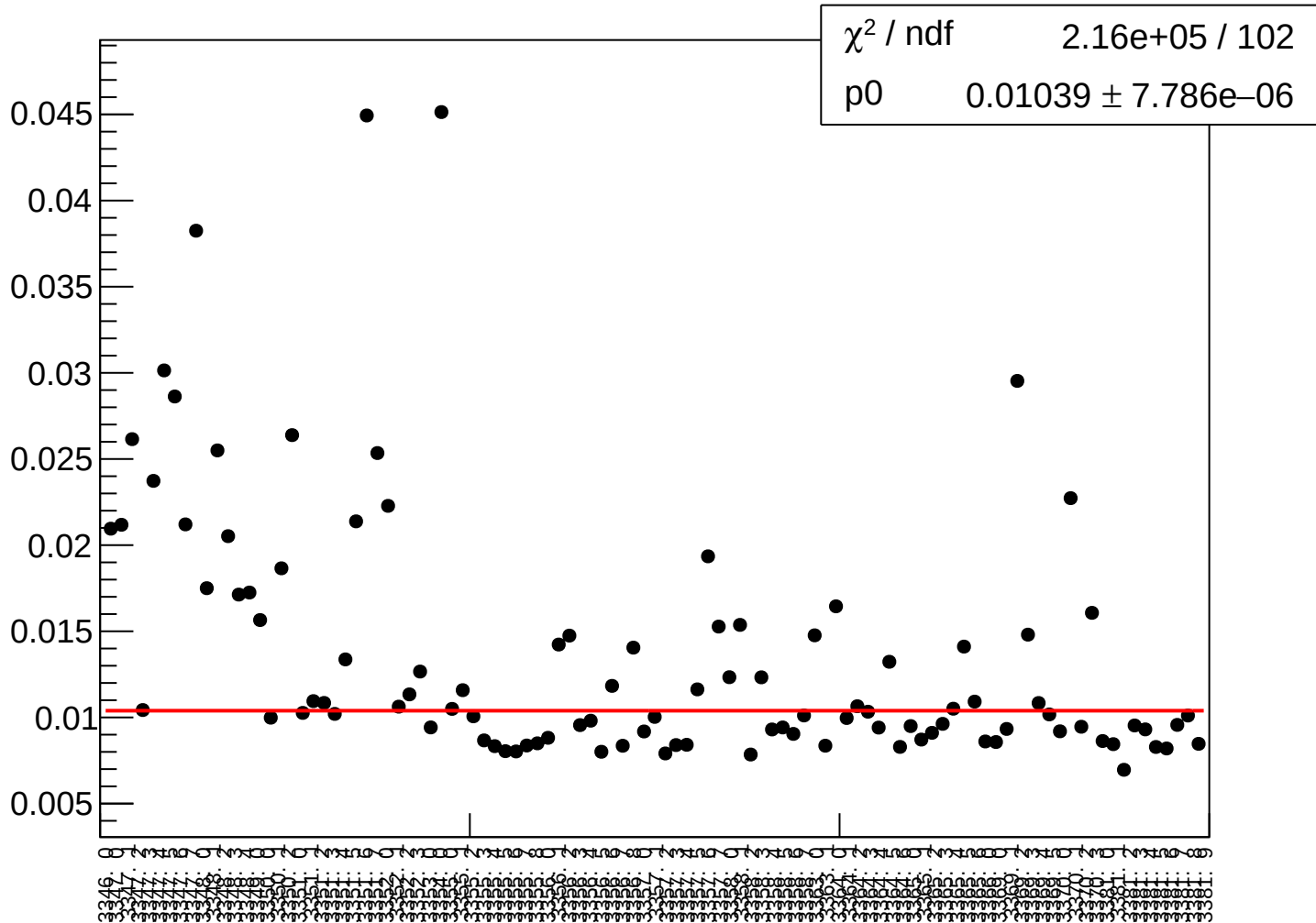
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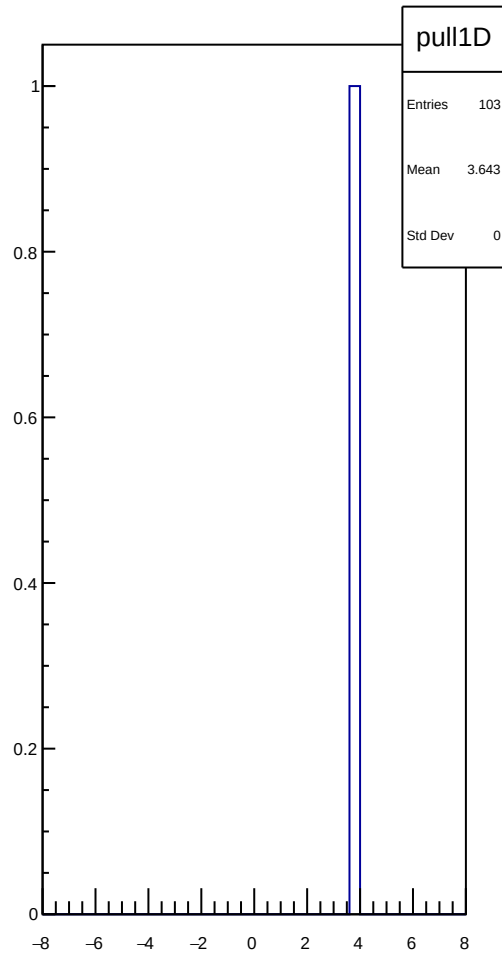
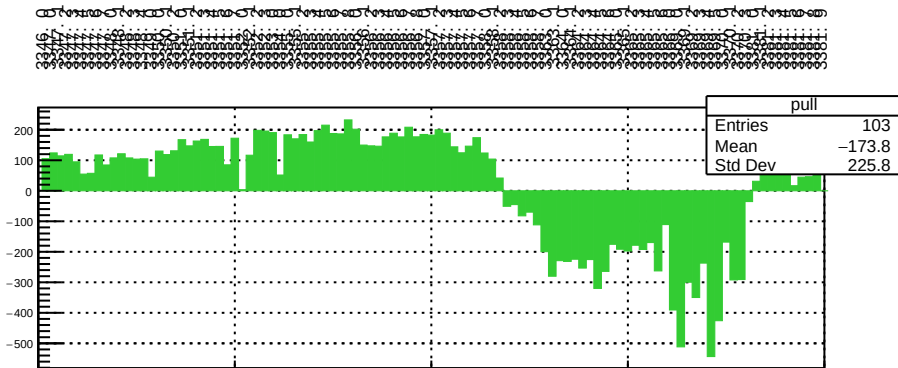
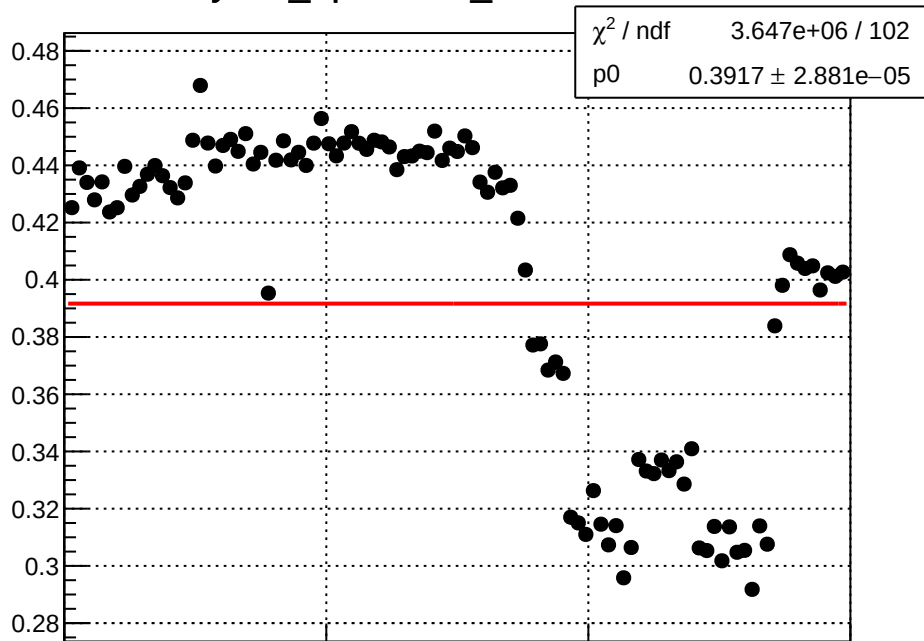
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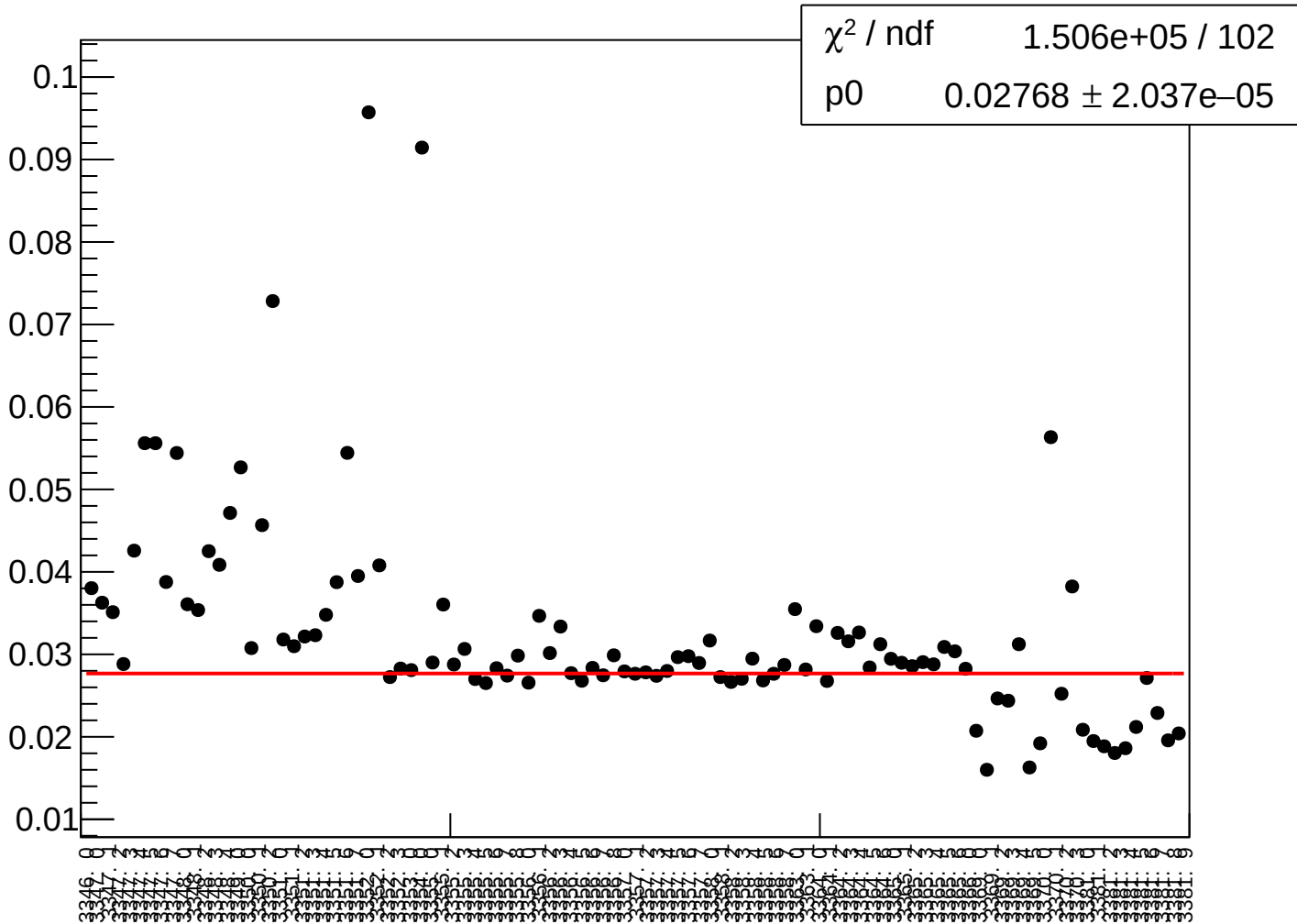
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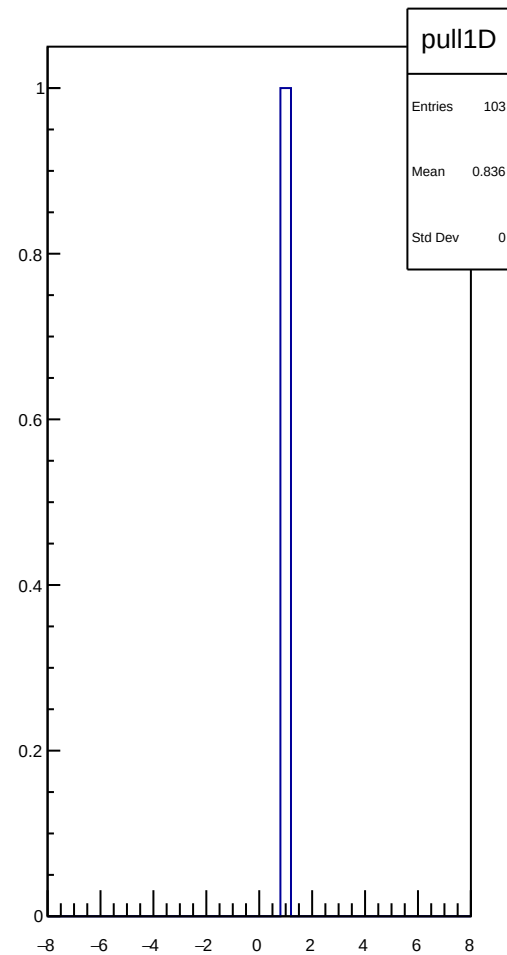
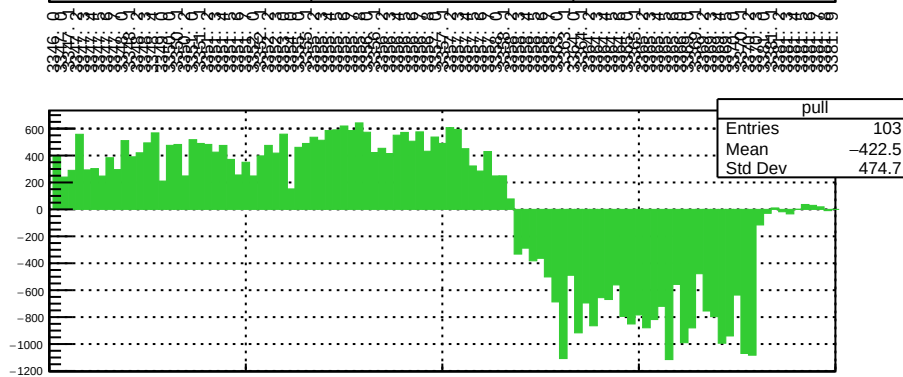
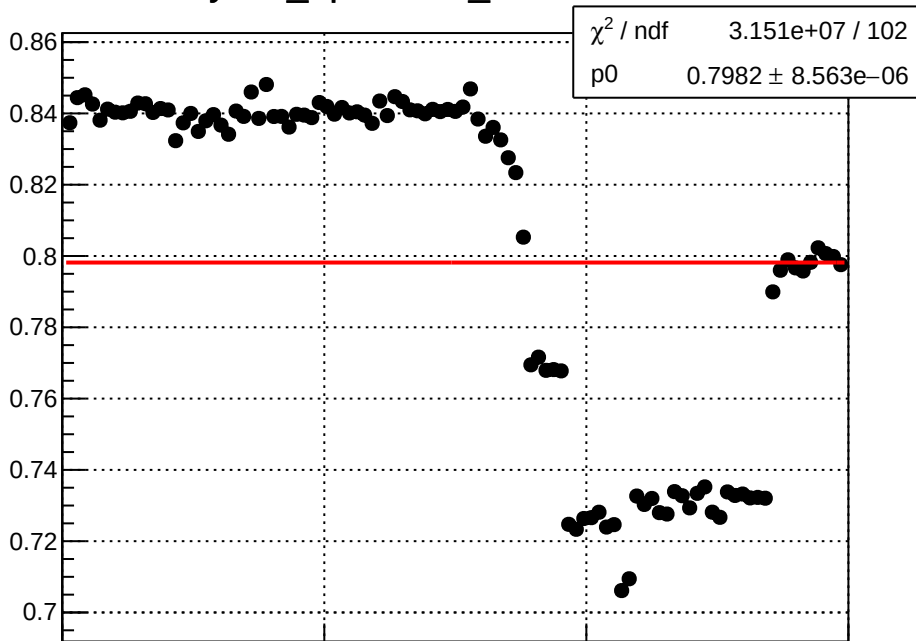
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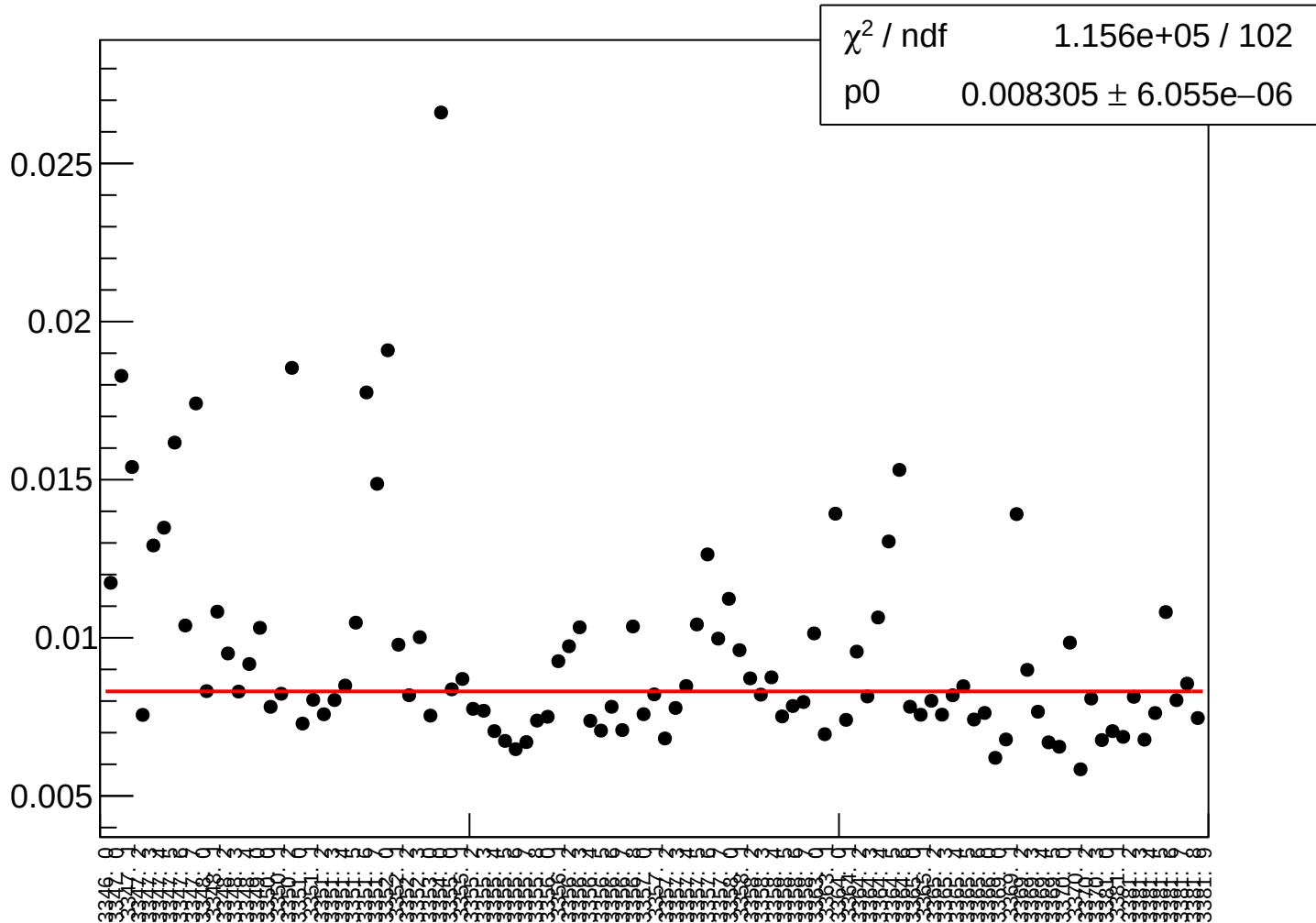
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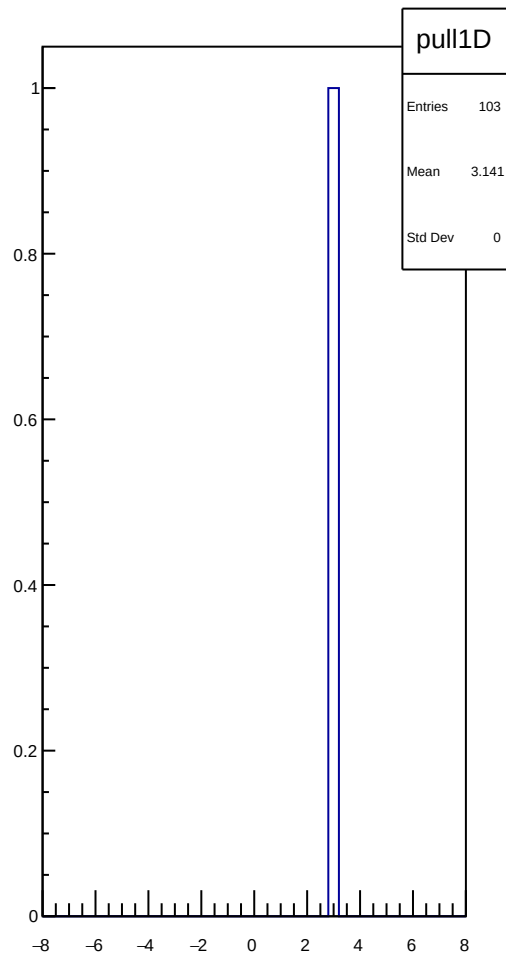
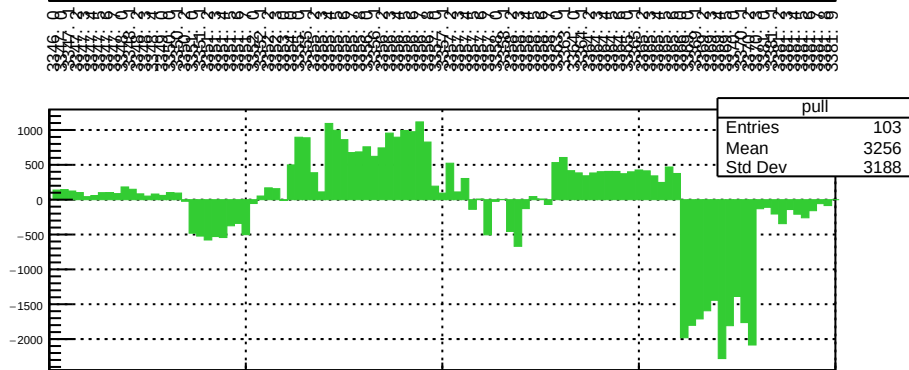
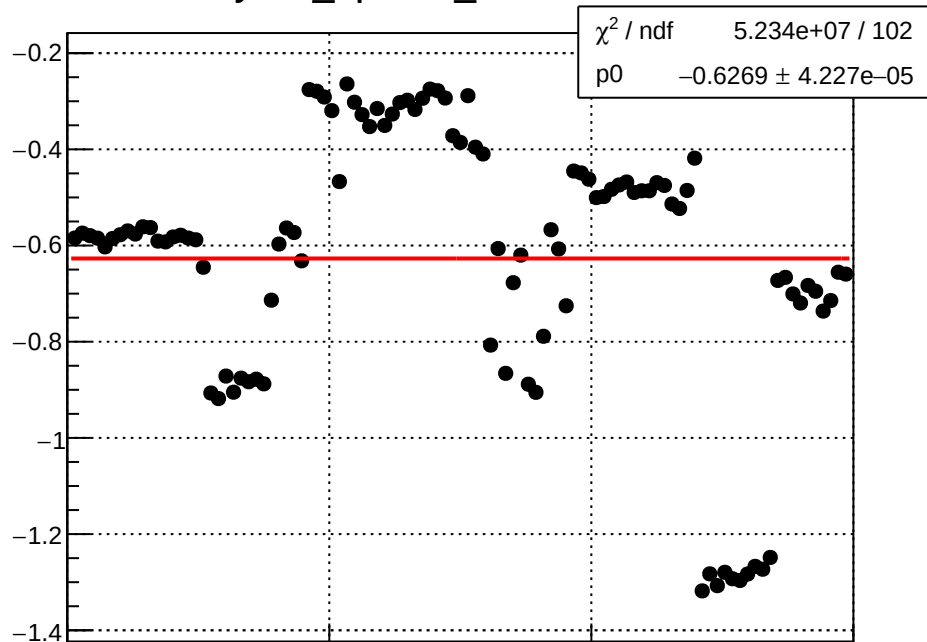
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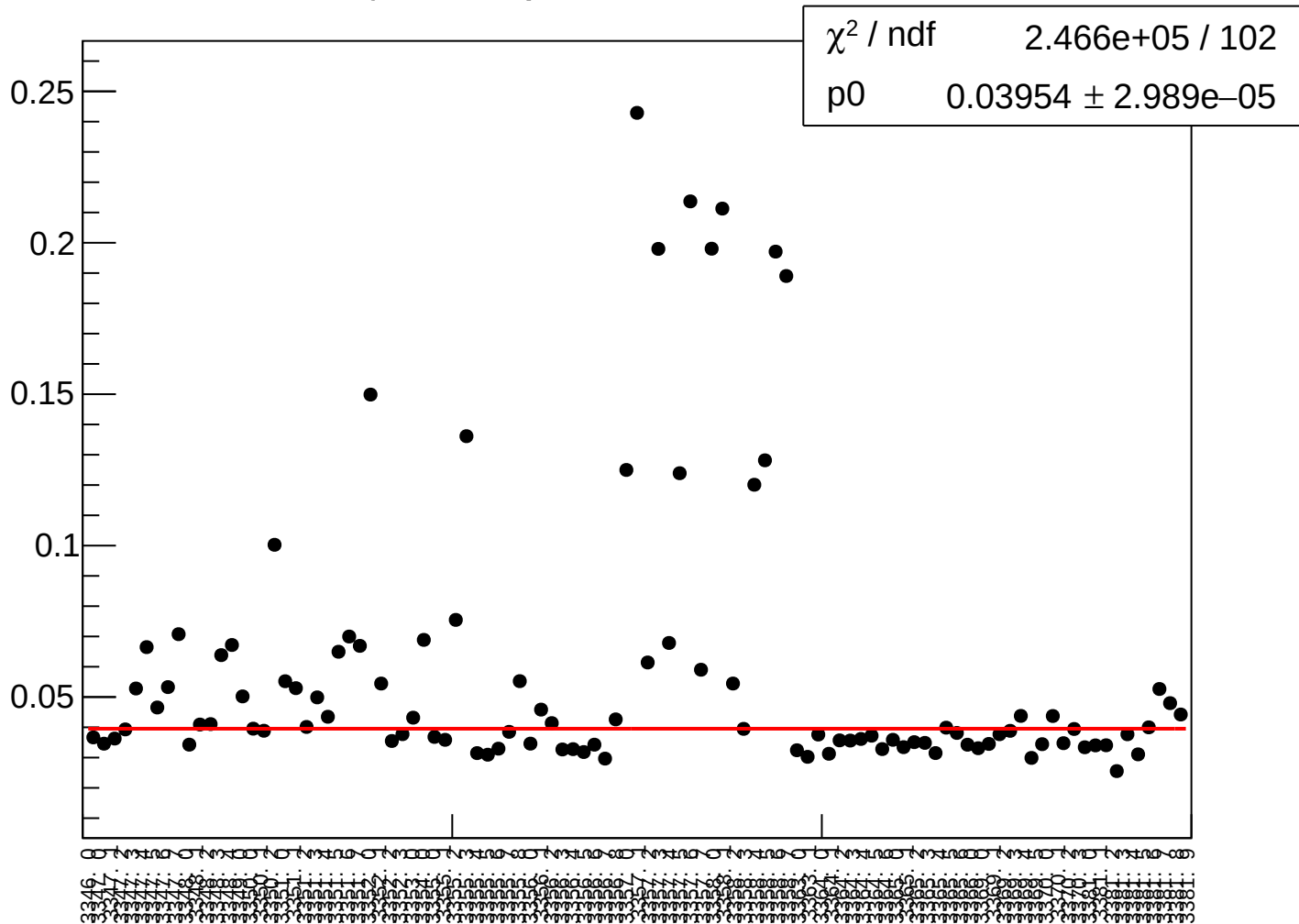
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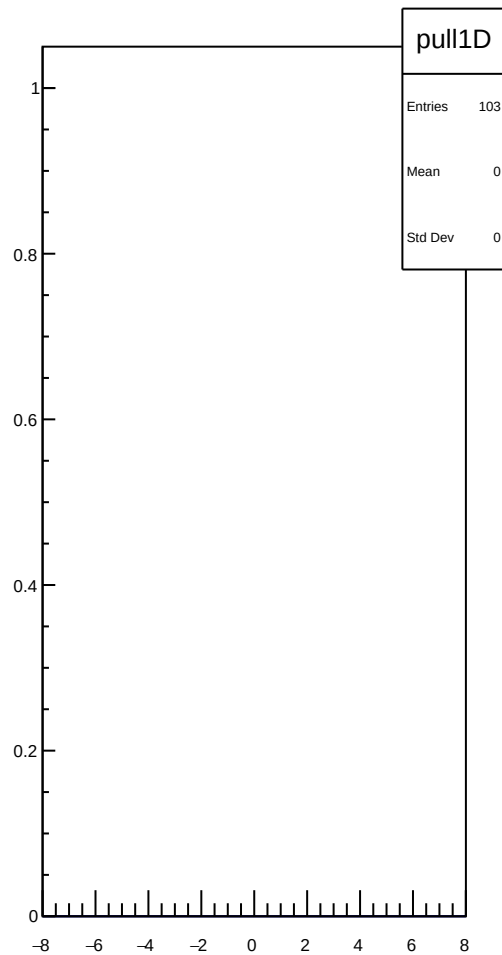
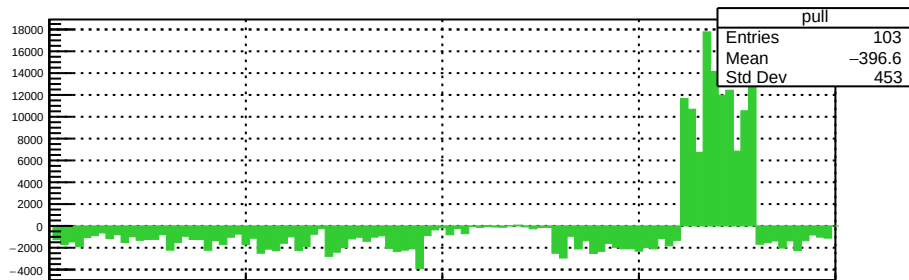
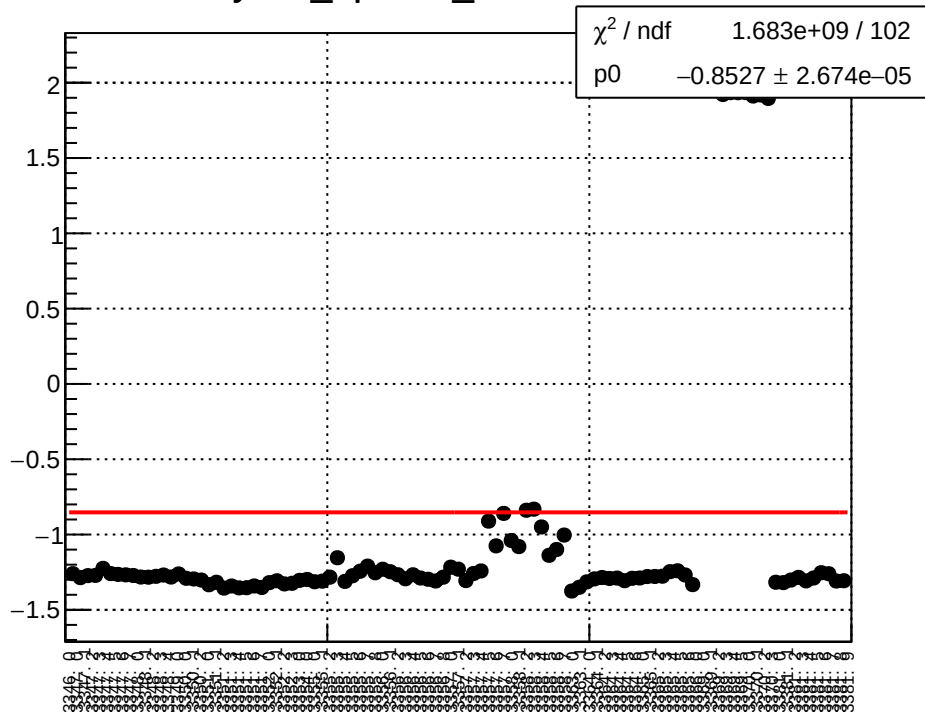
yield_bpm1X_mean vs run



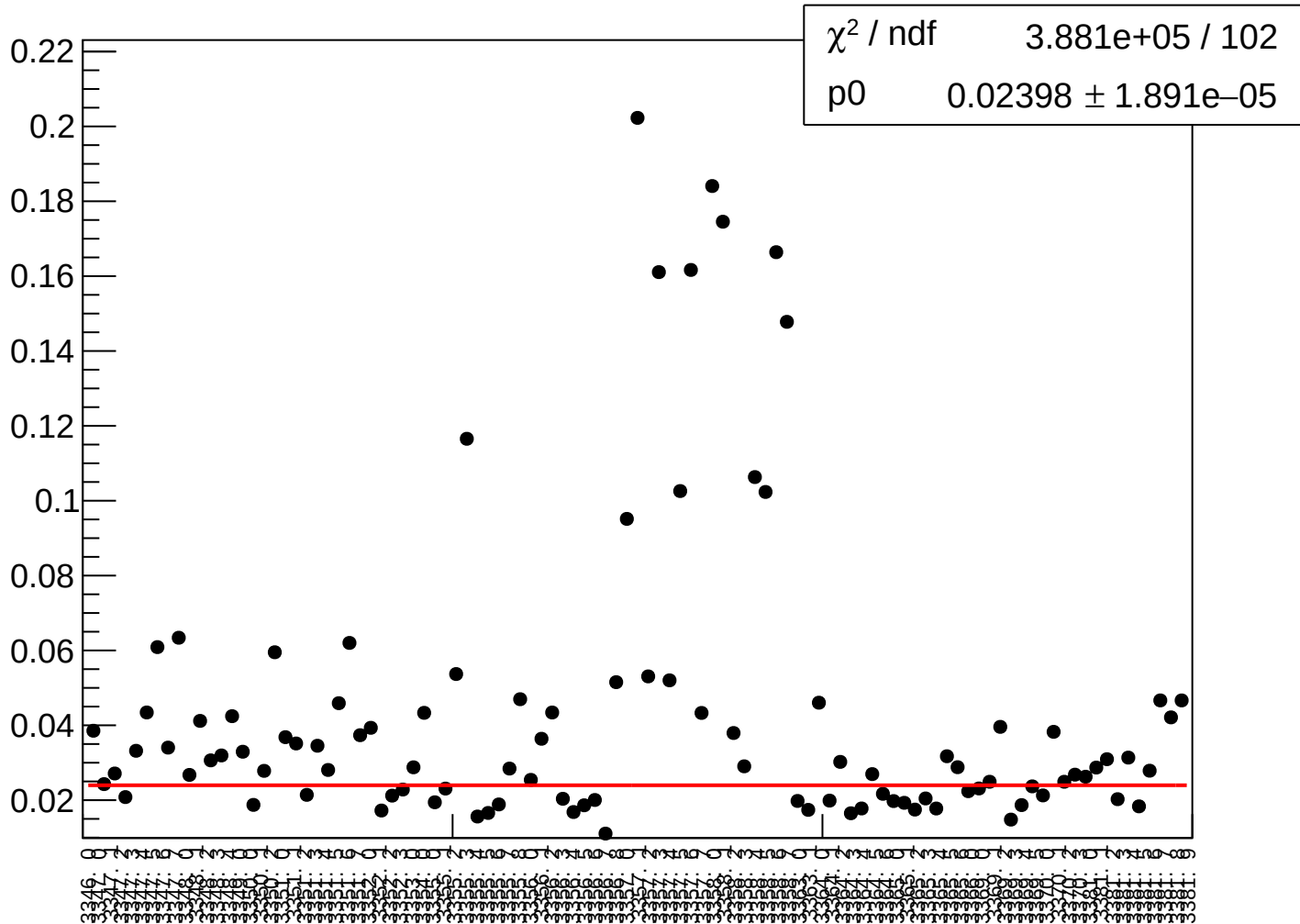
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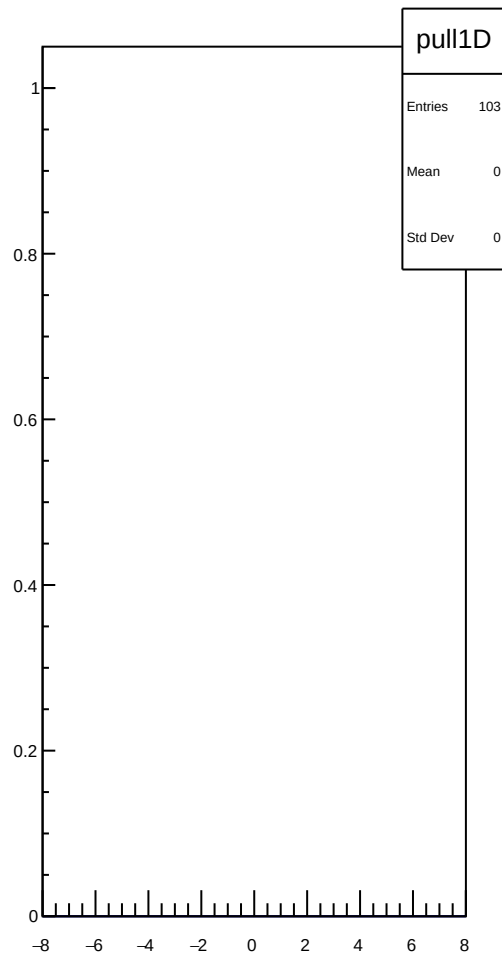
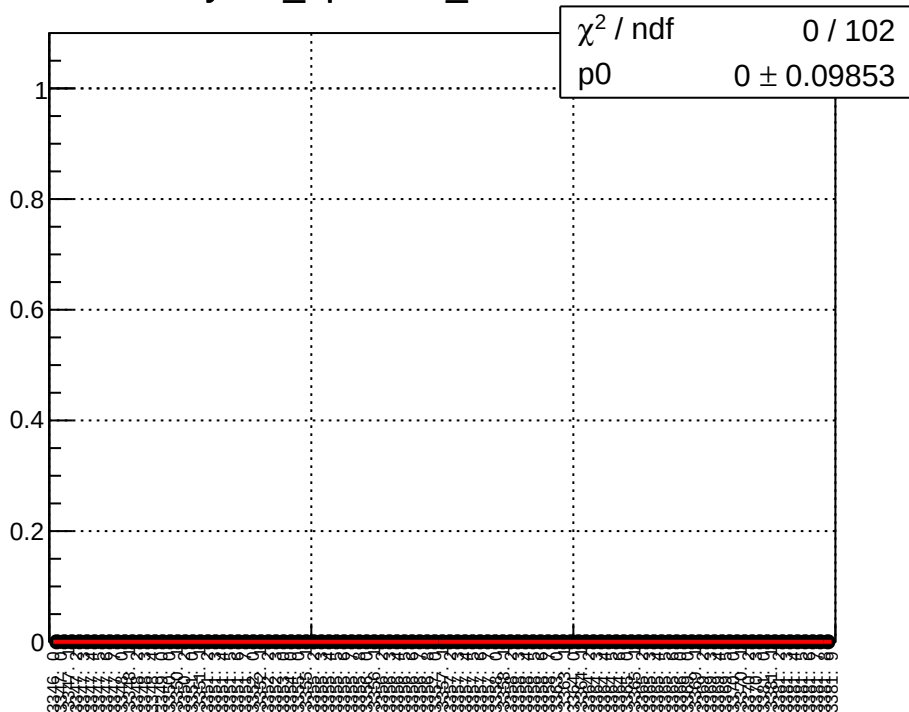
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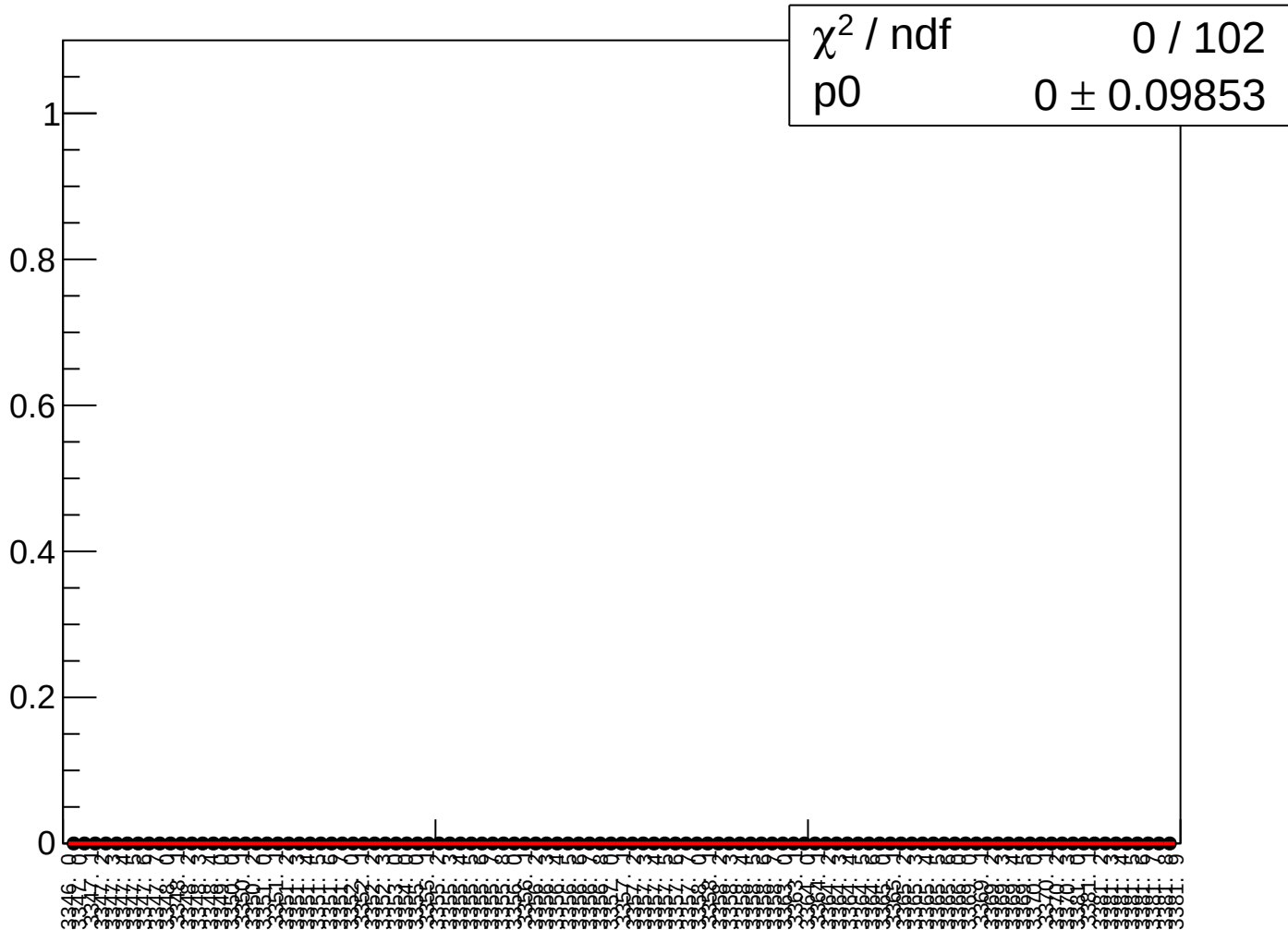
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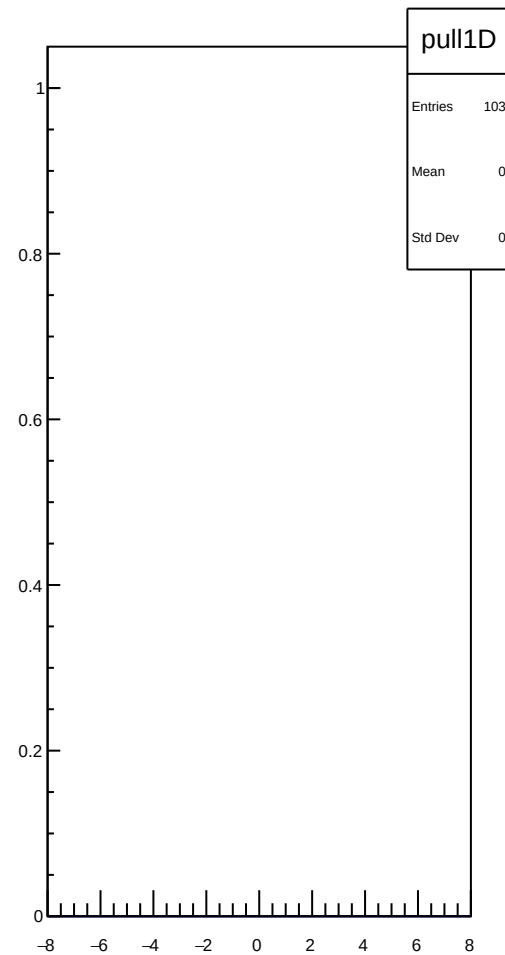
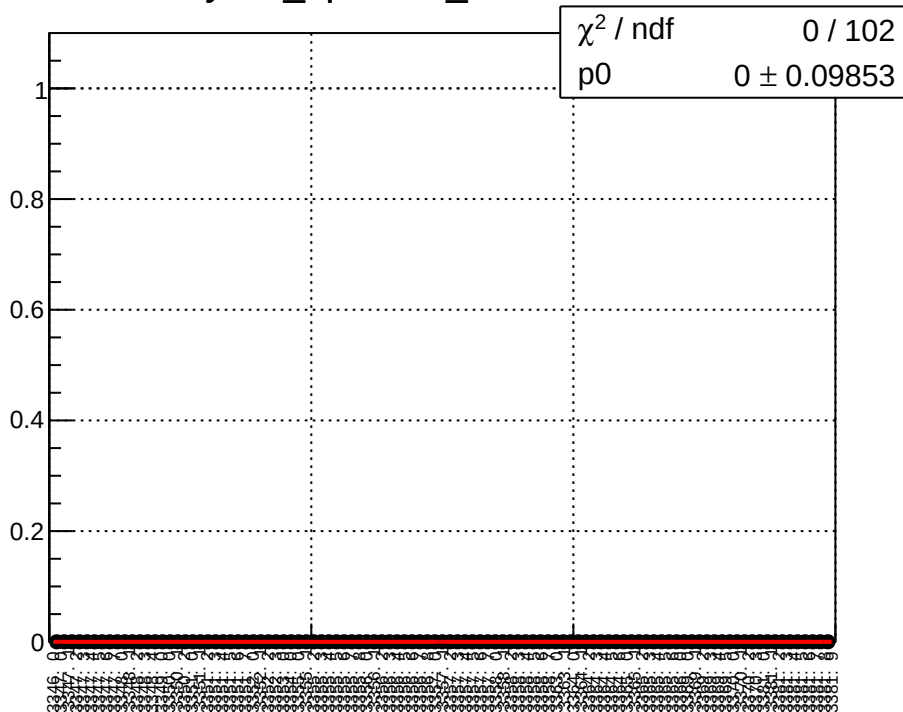
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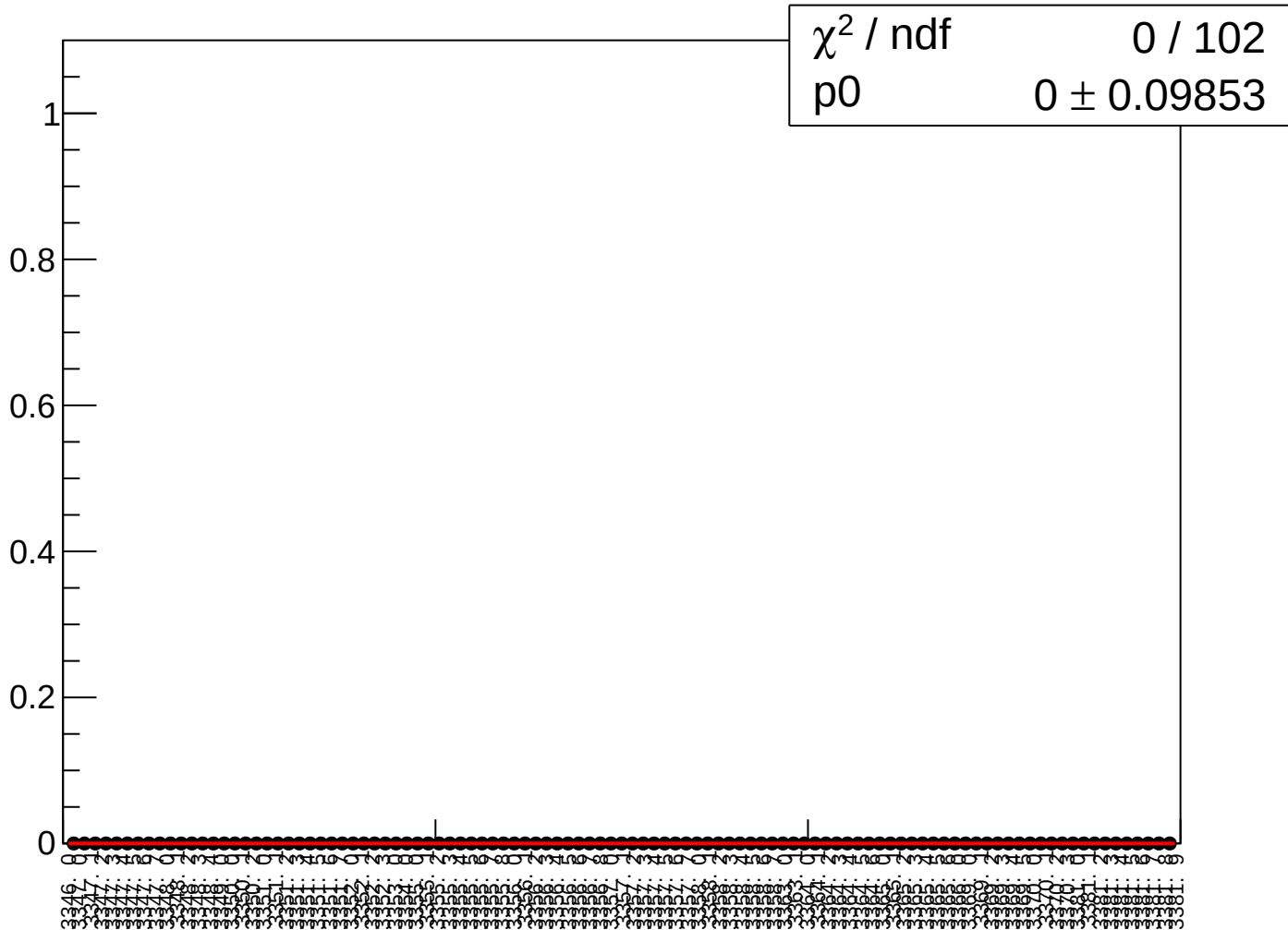
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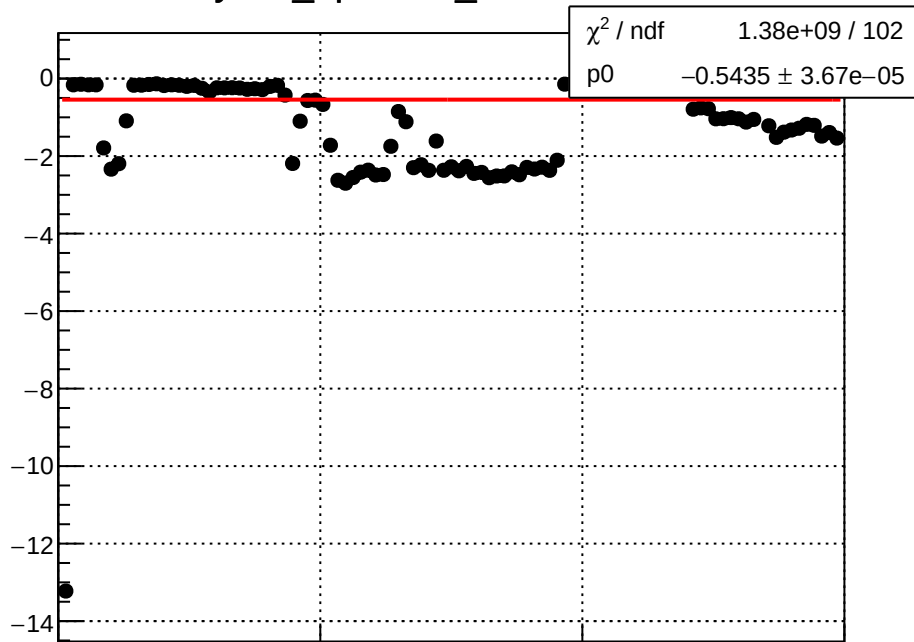
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yield_bpm11Y_rms vs run

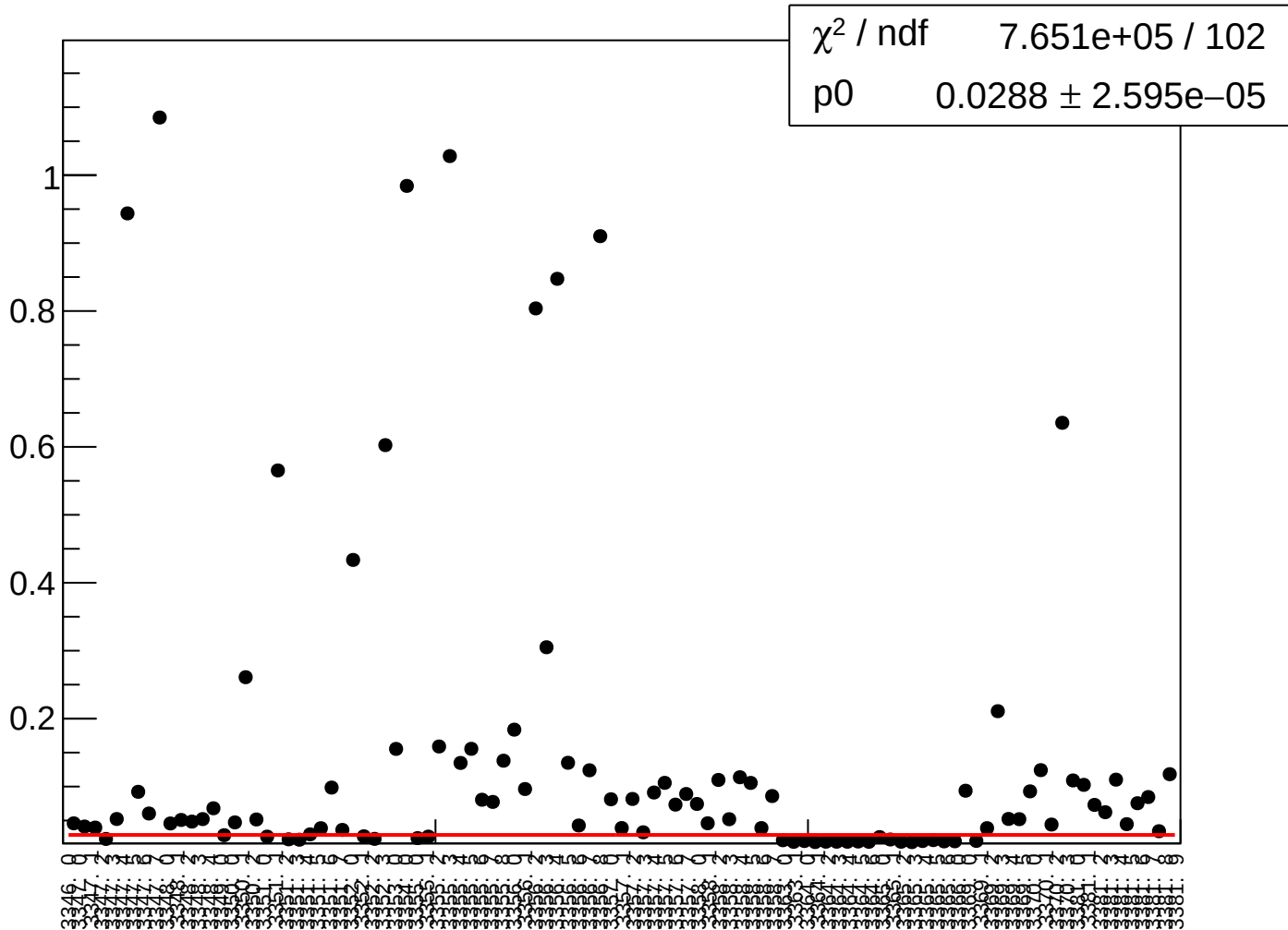


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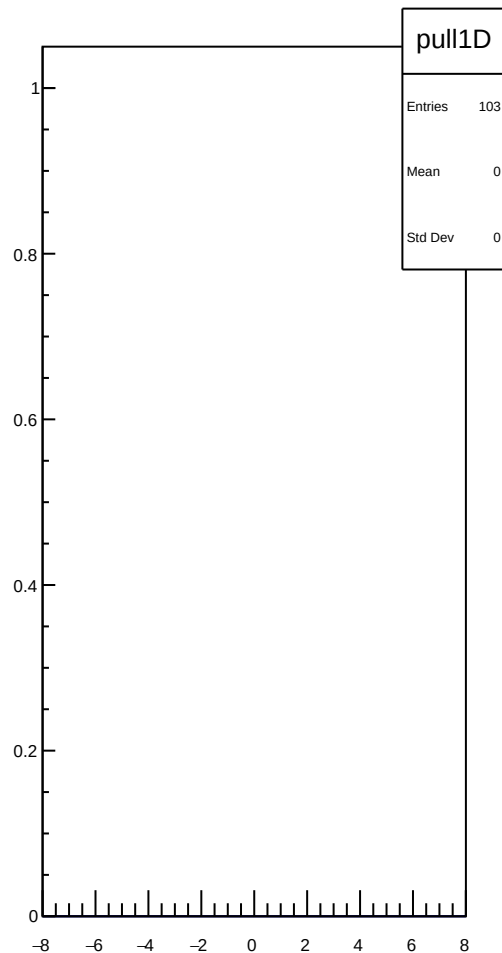
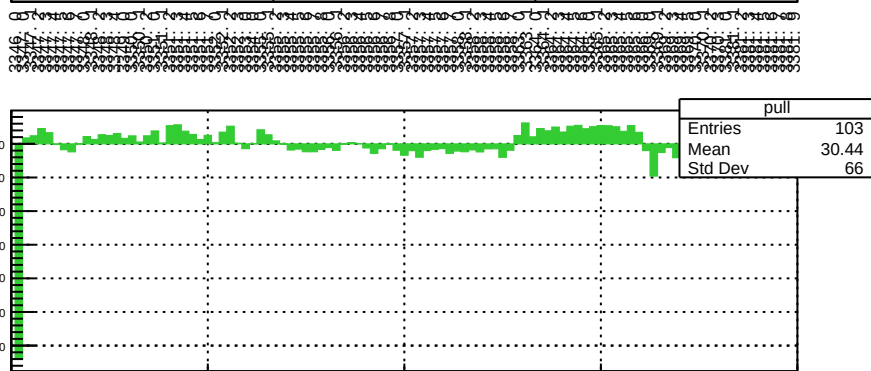
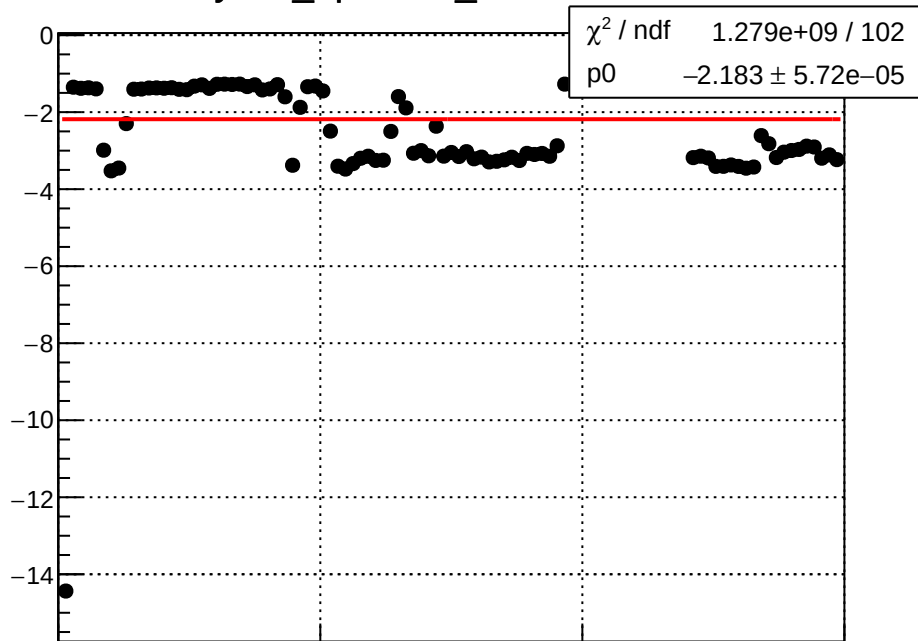


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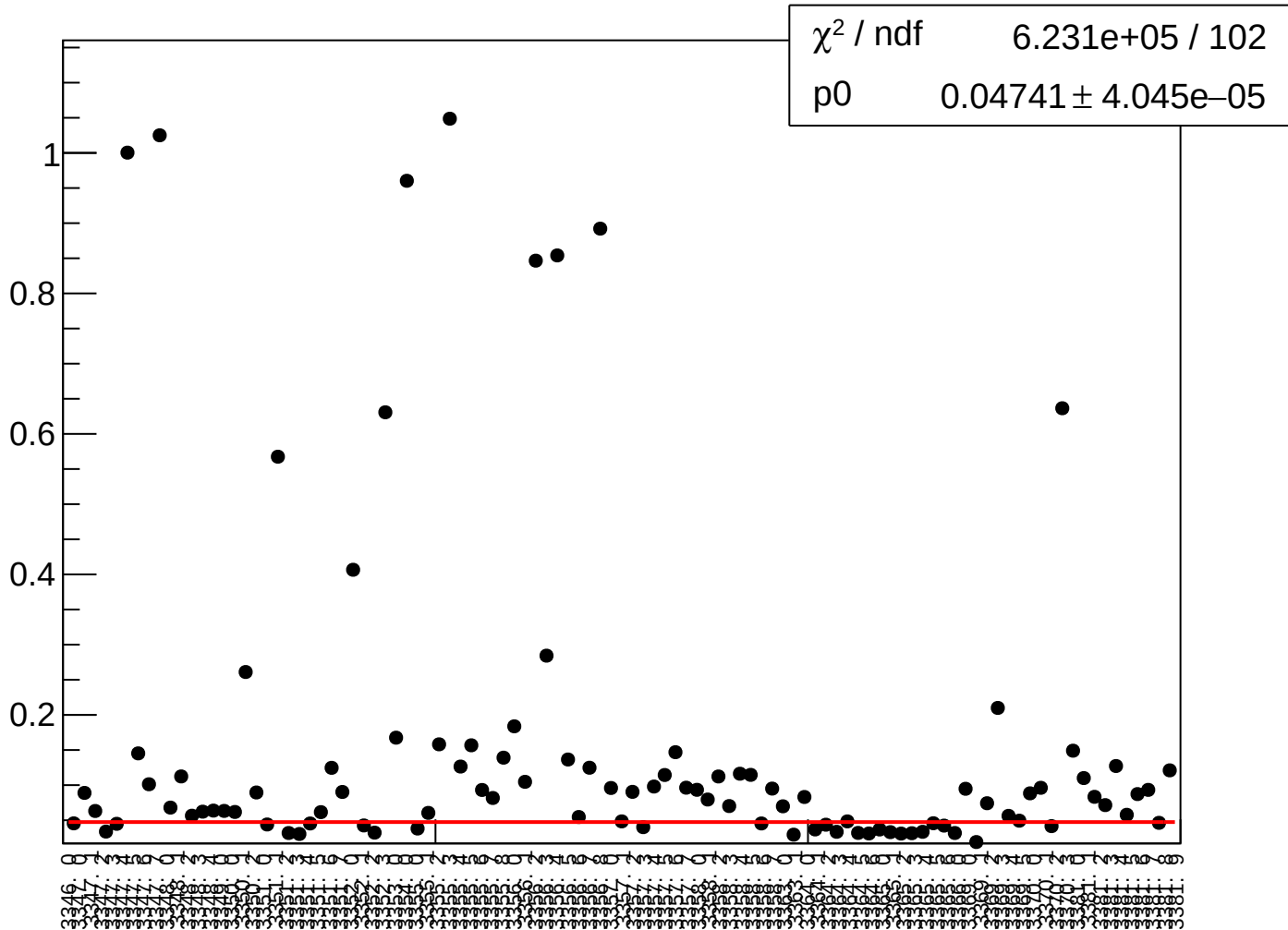
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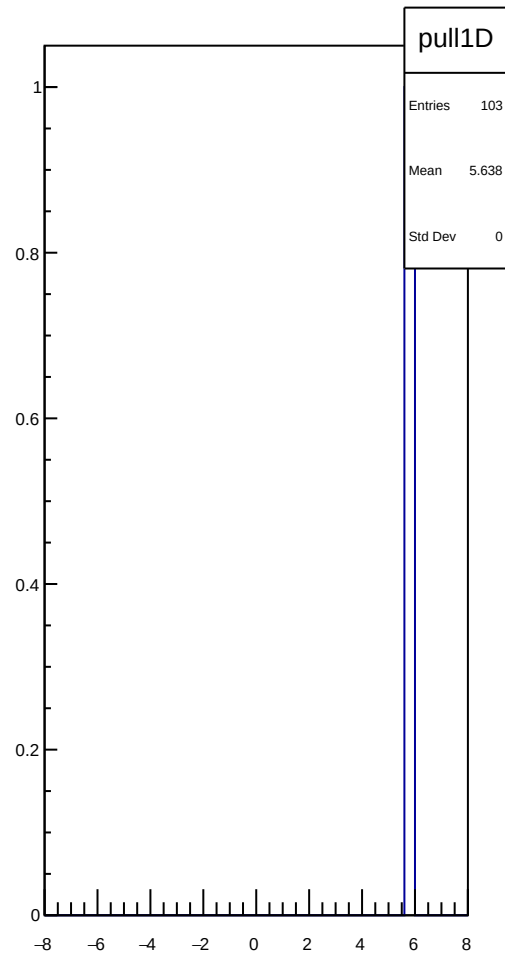
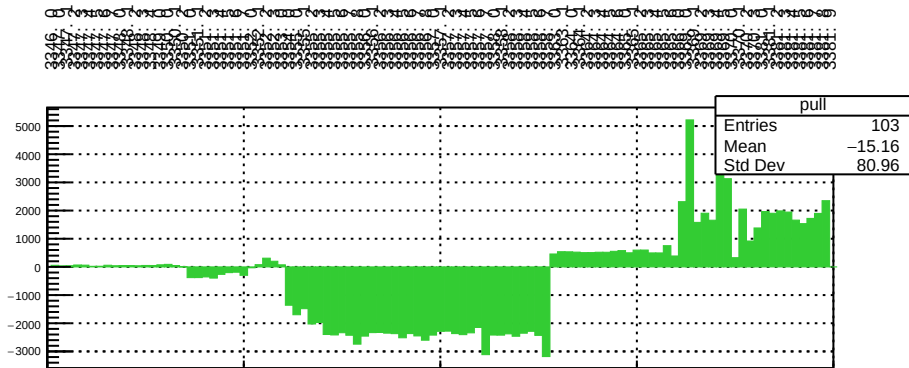
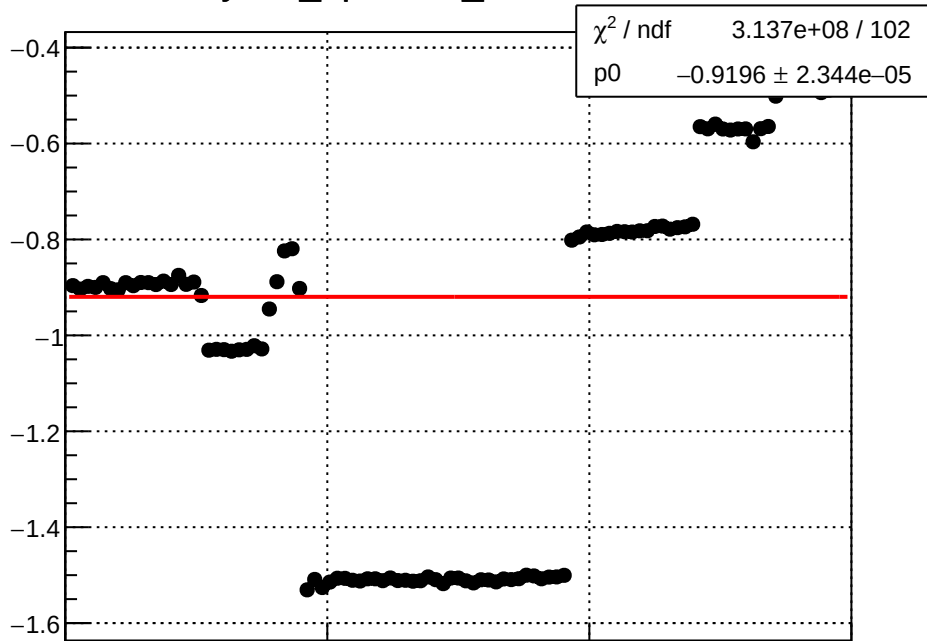
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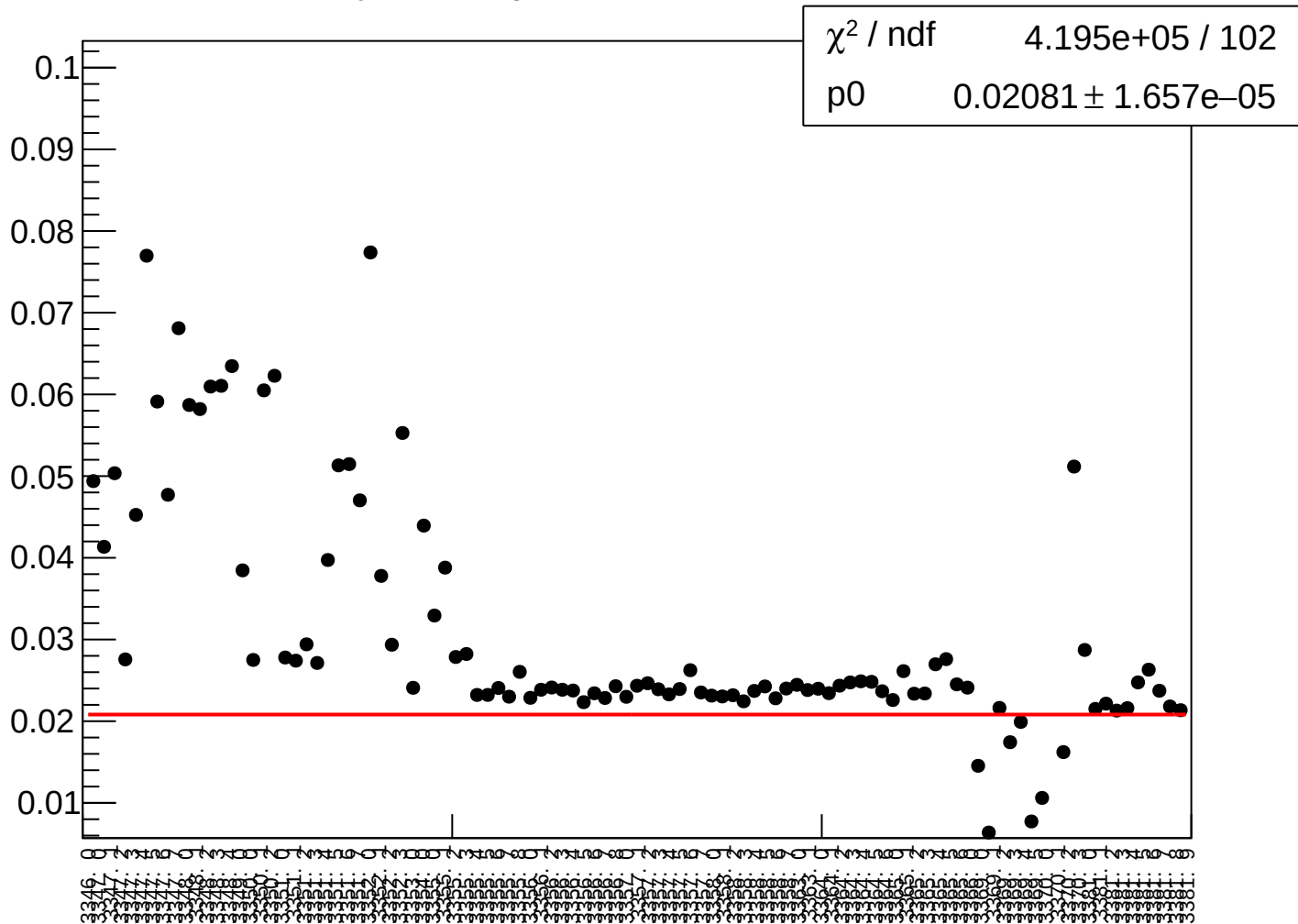
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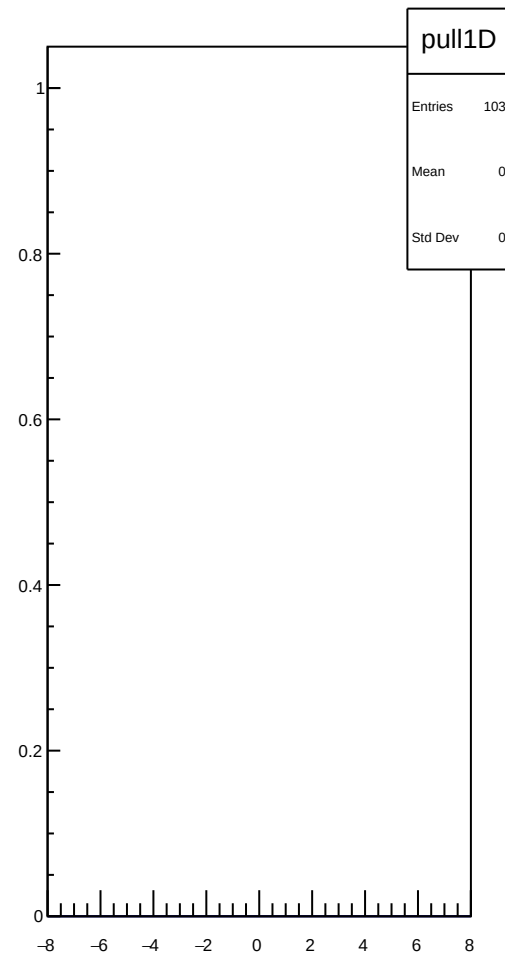
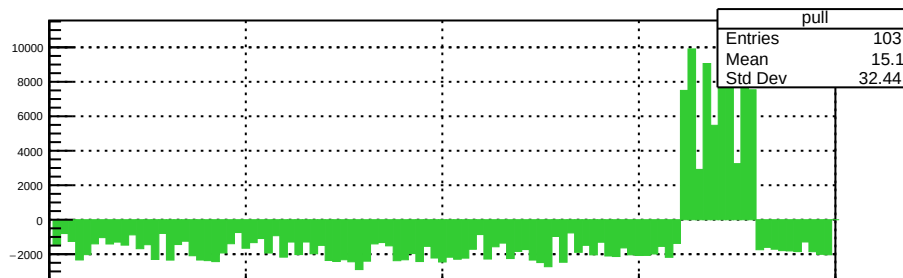
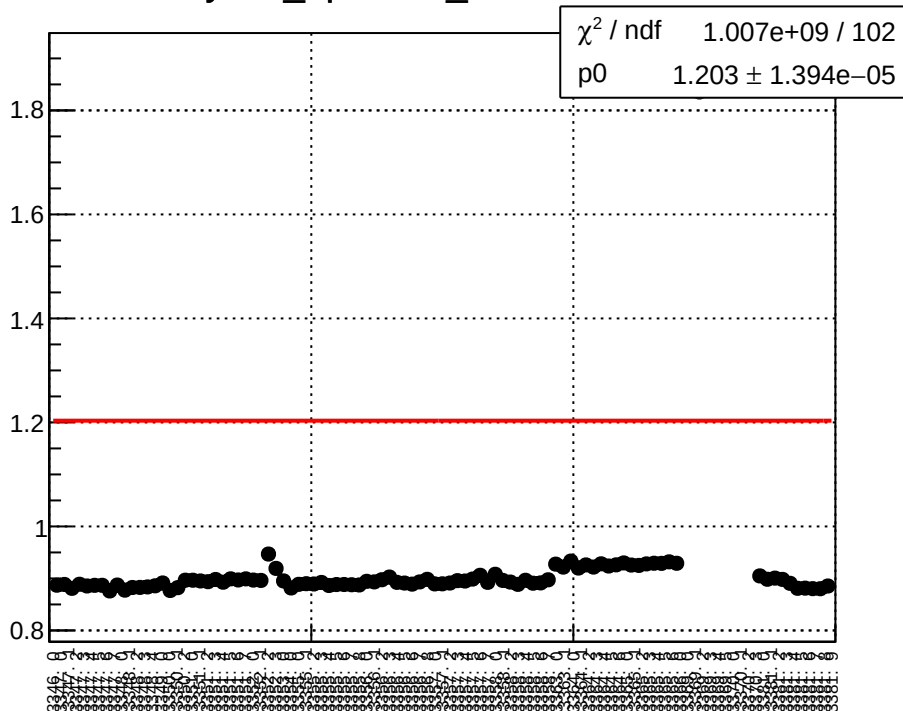
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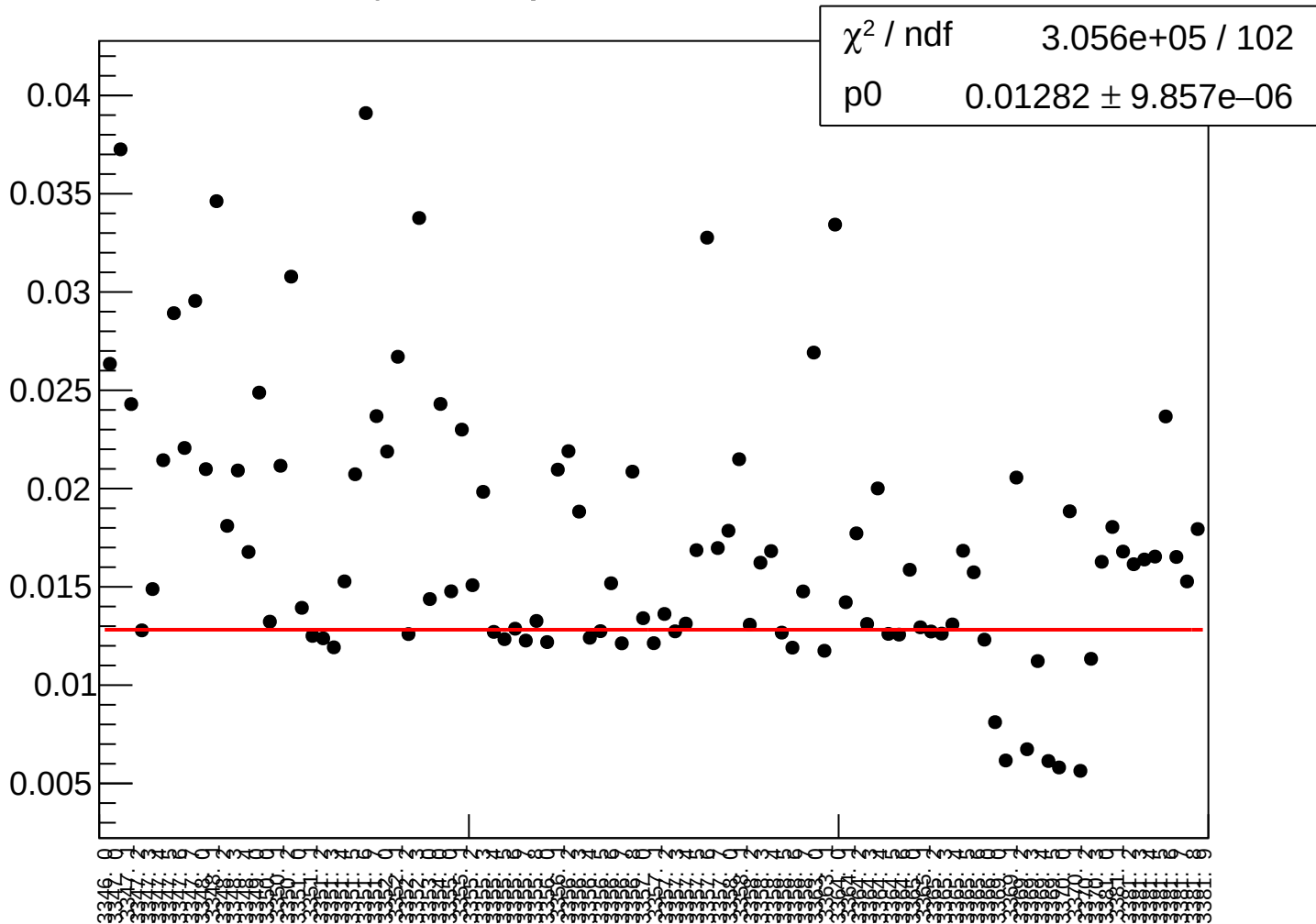
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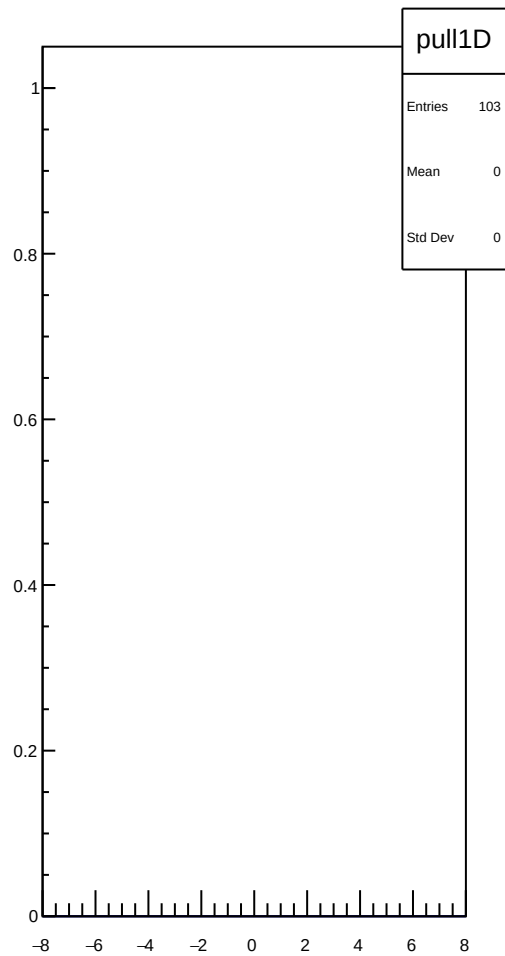
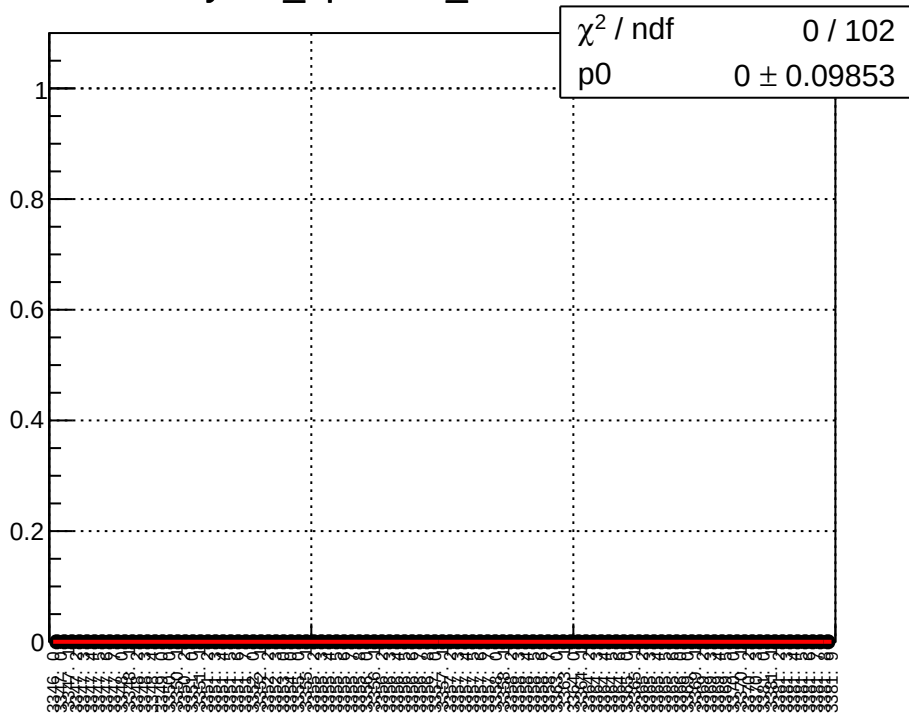
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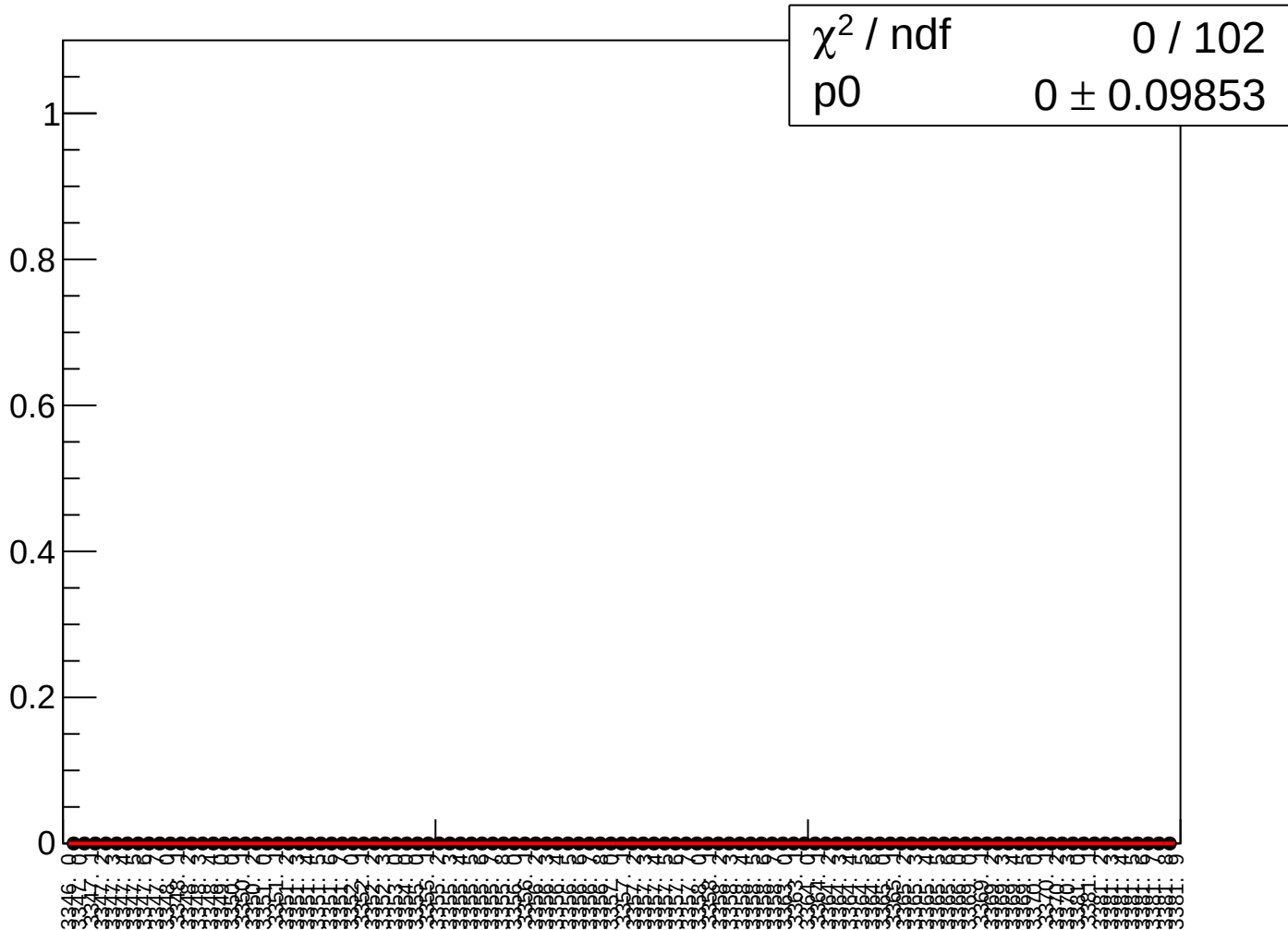
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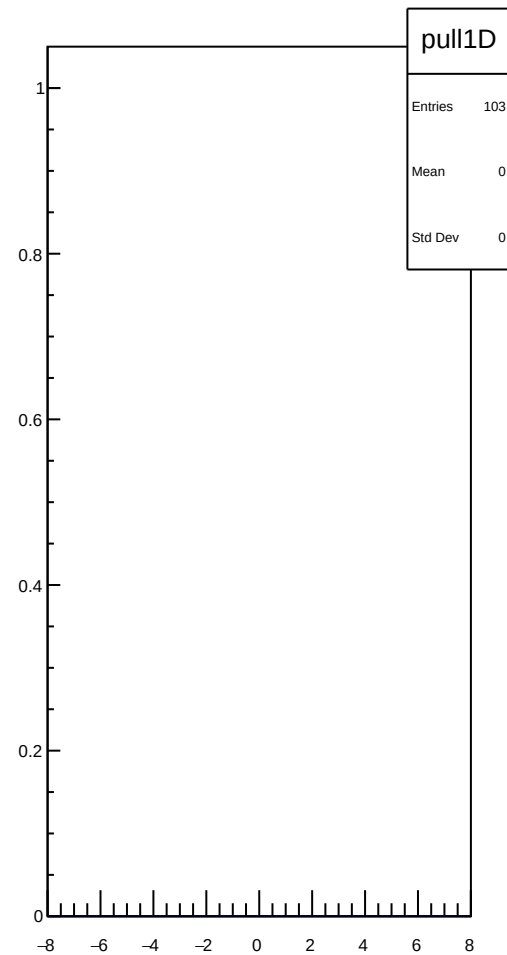
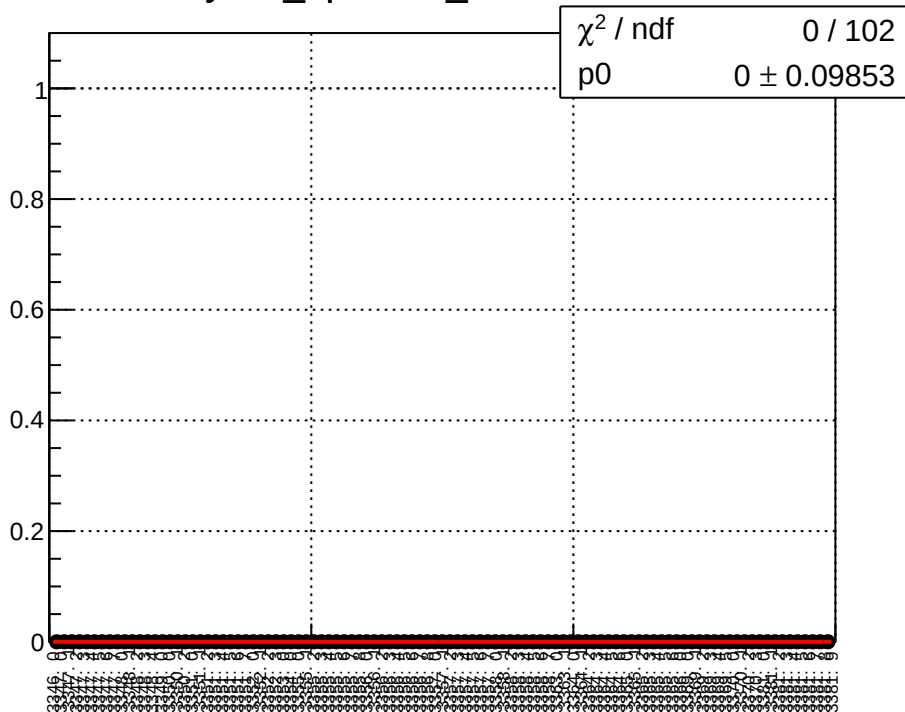
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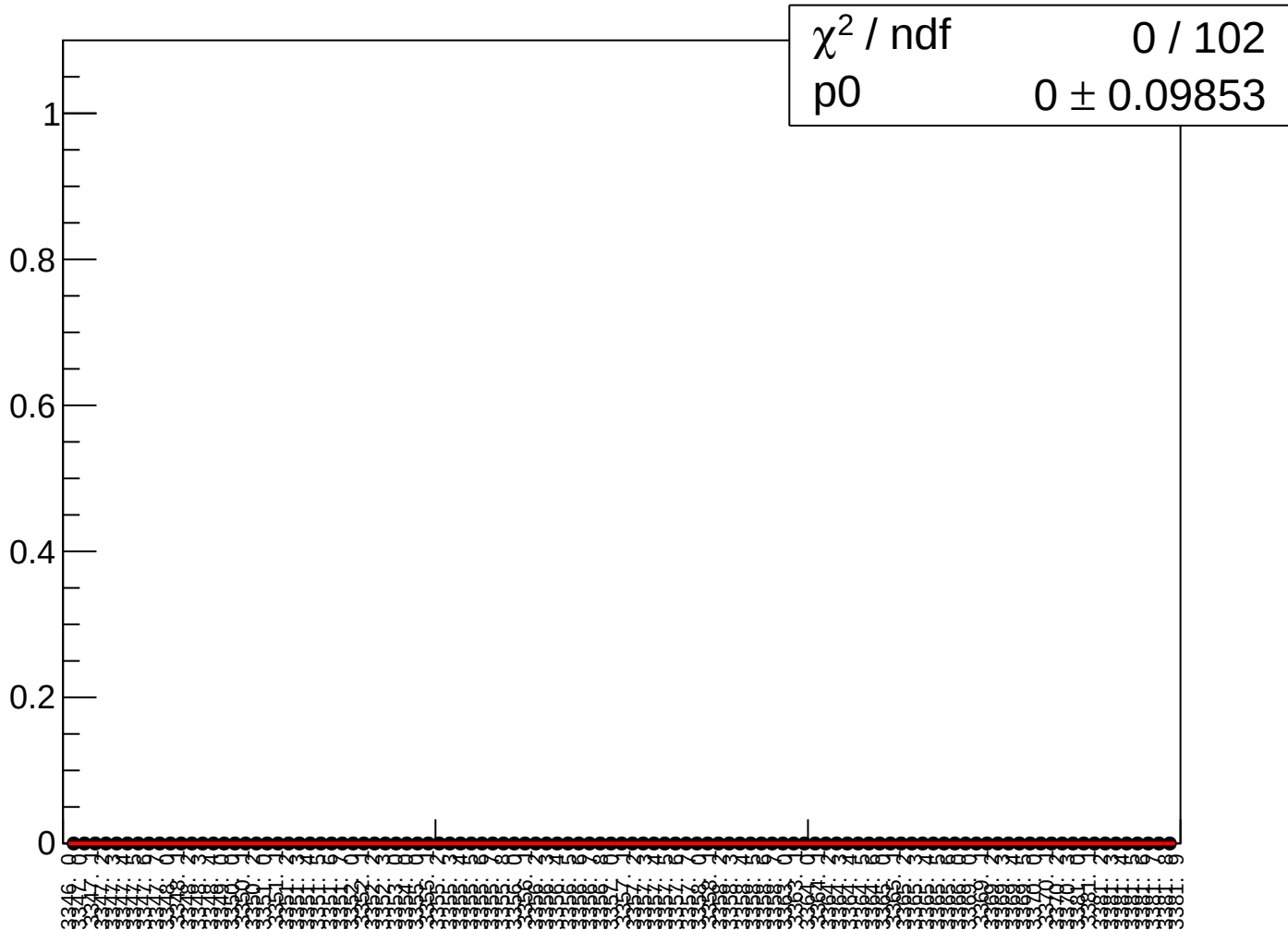
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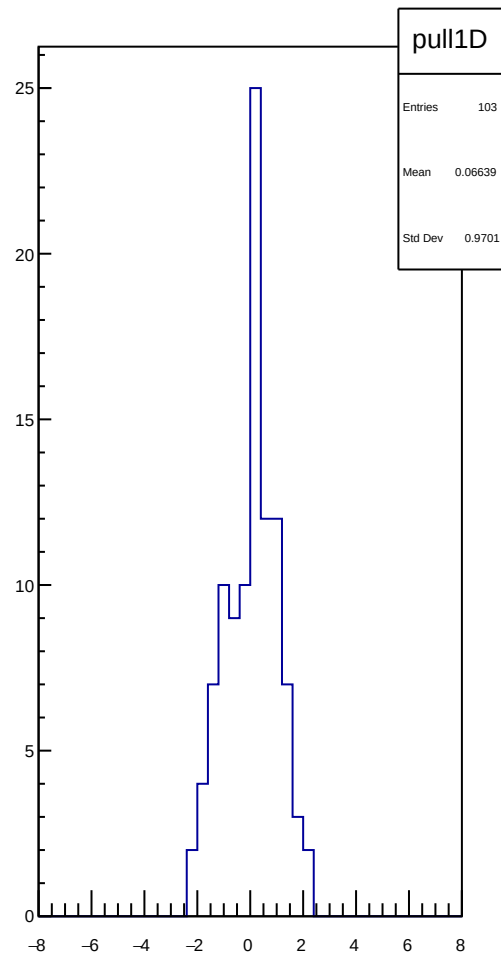
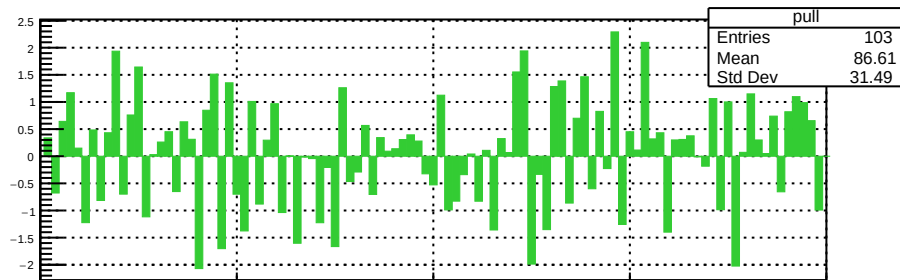
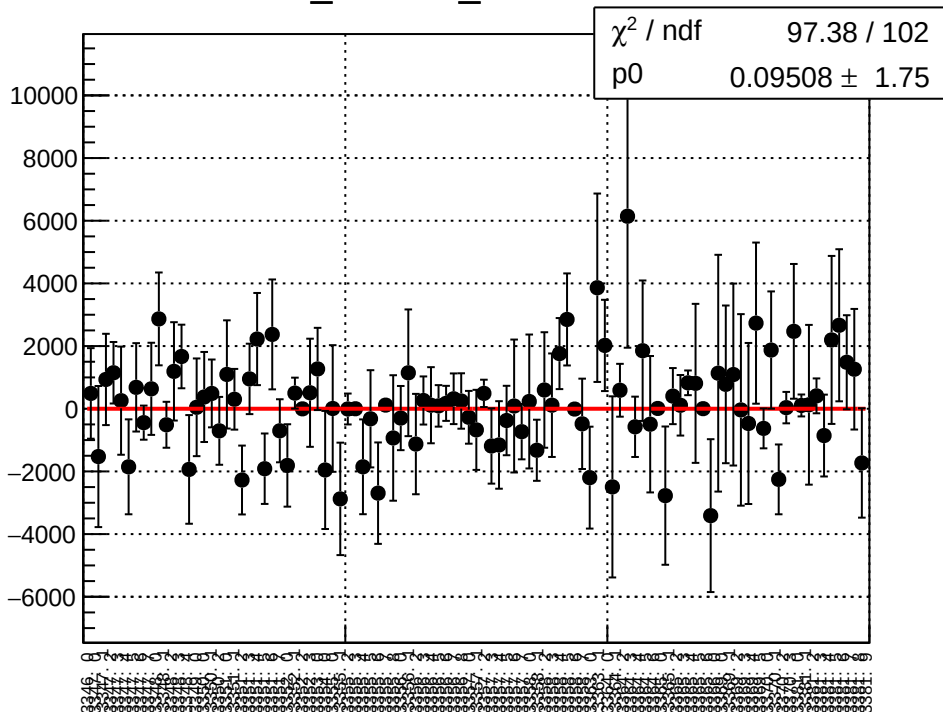
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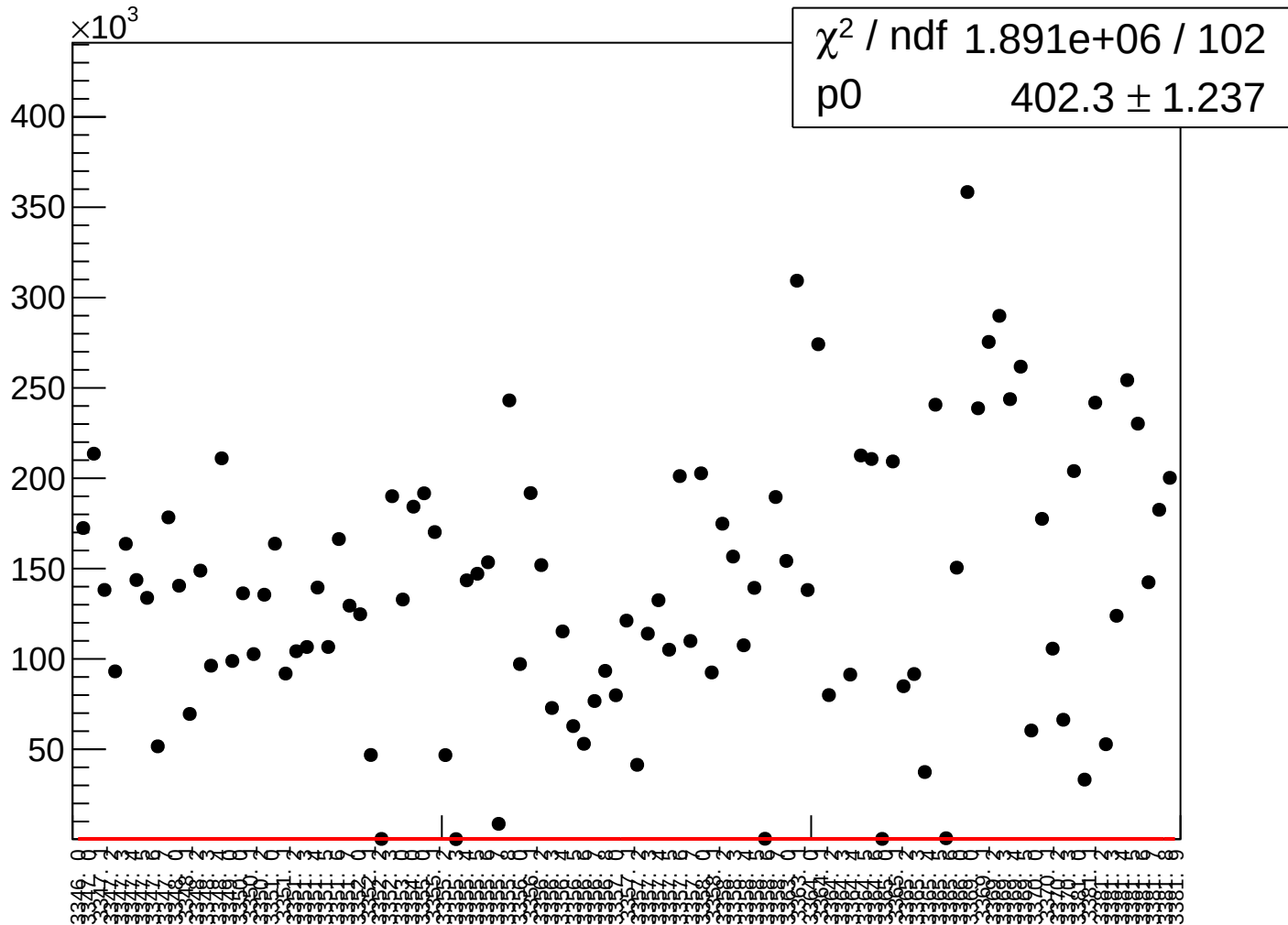
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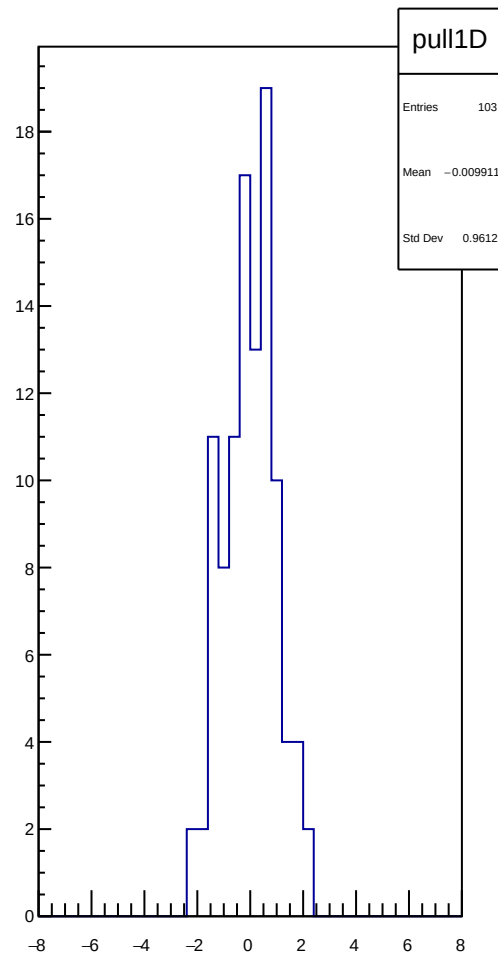
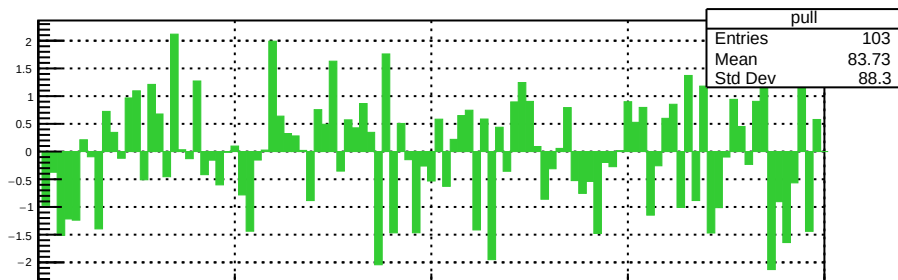
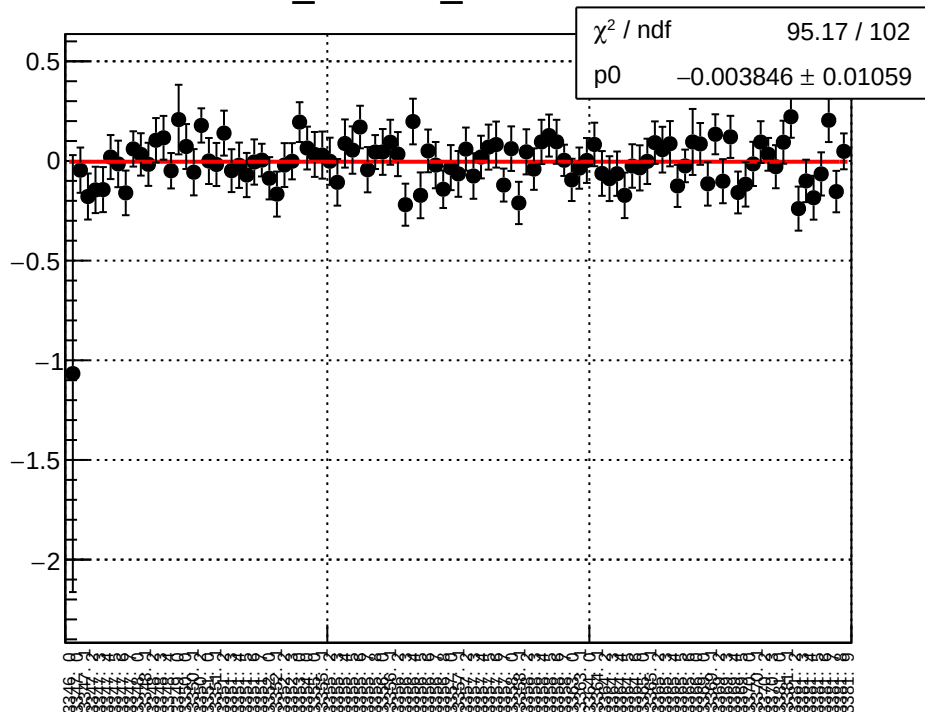
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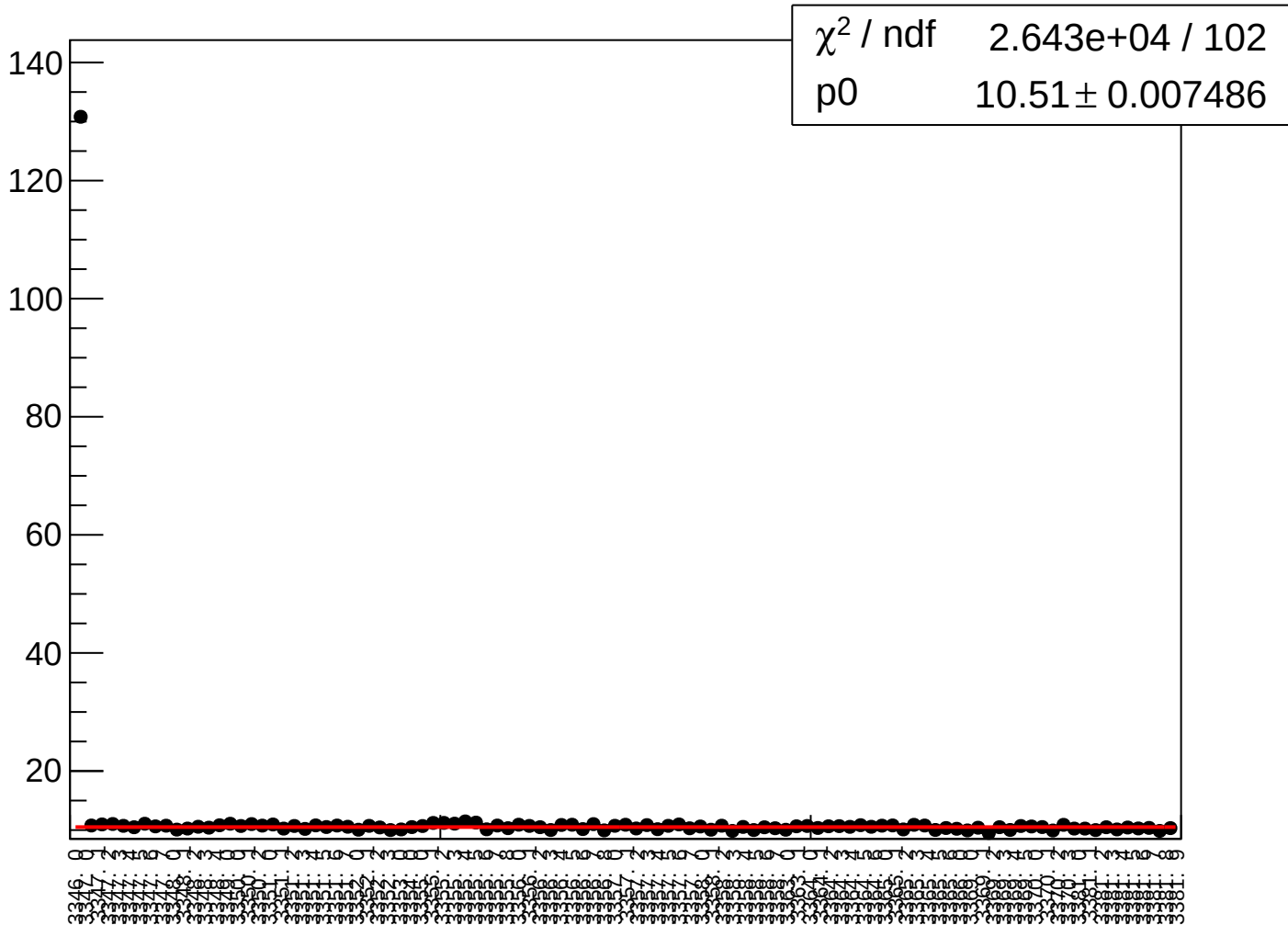
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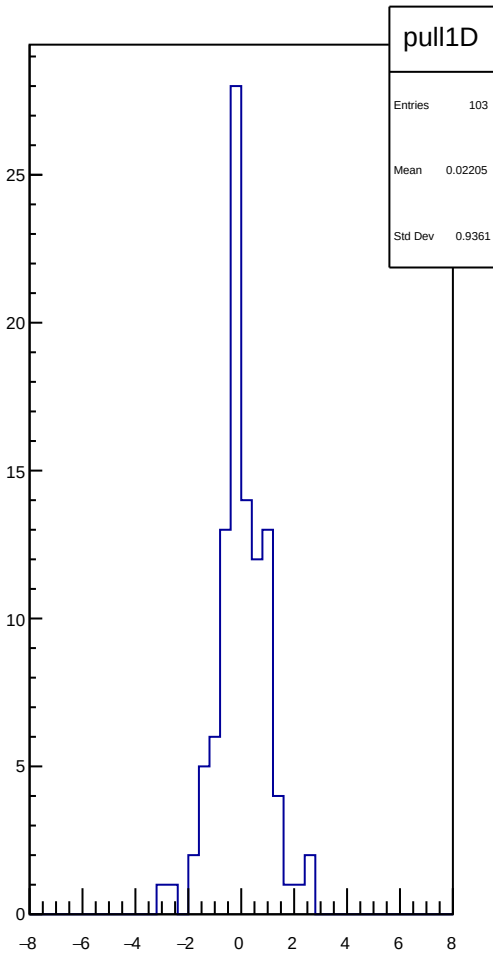
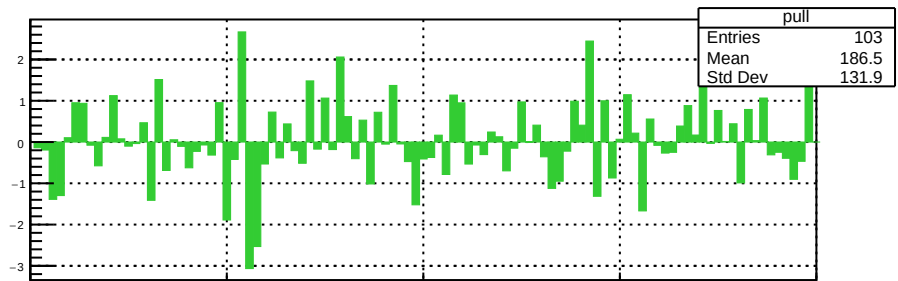
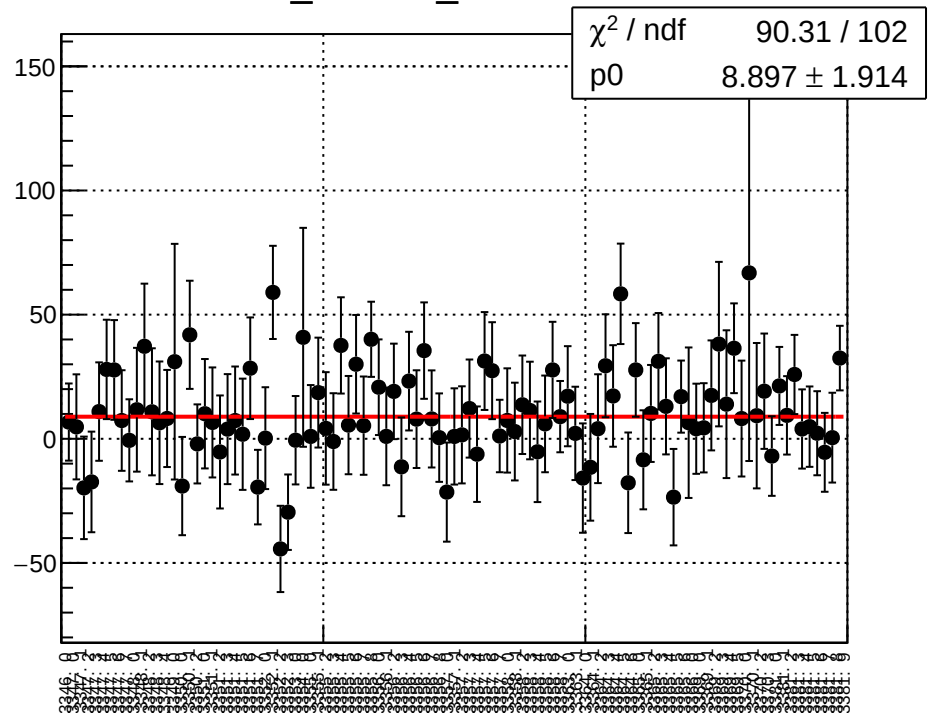
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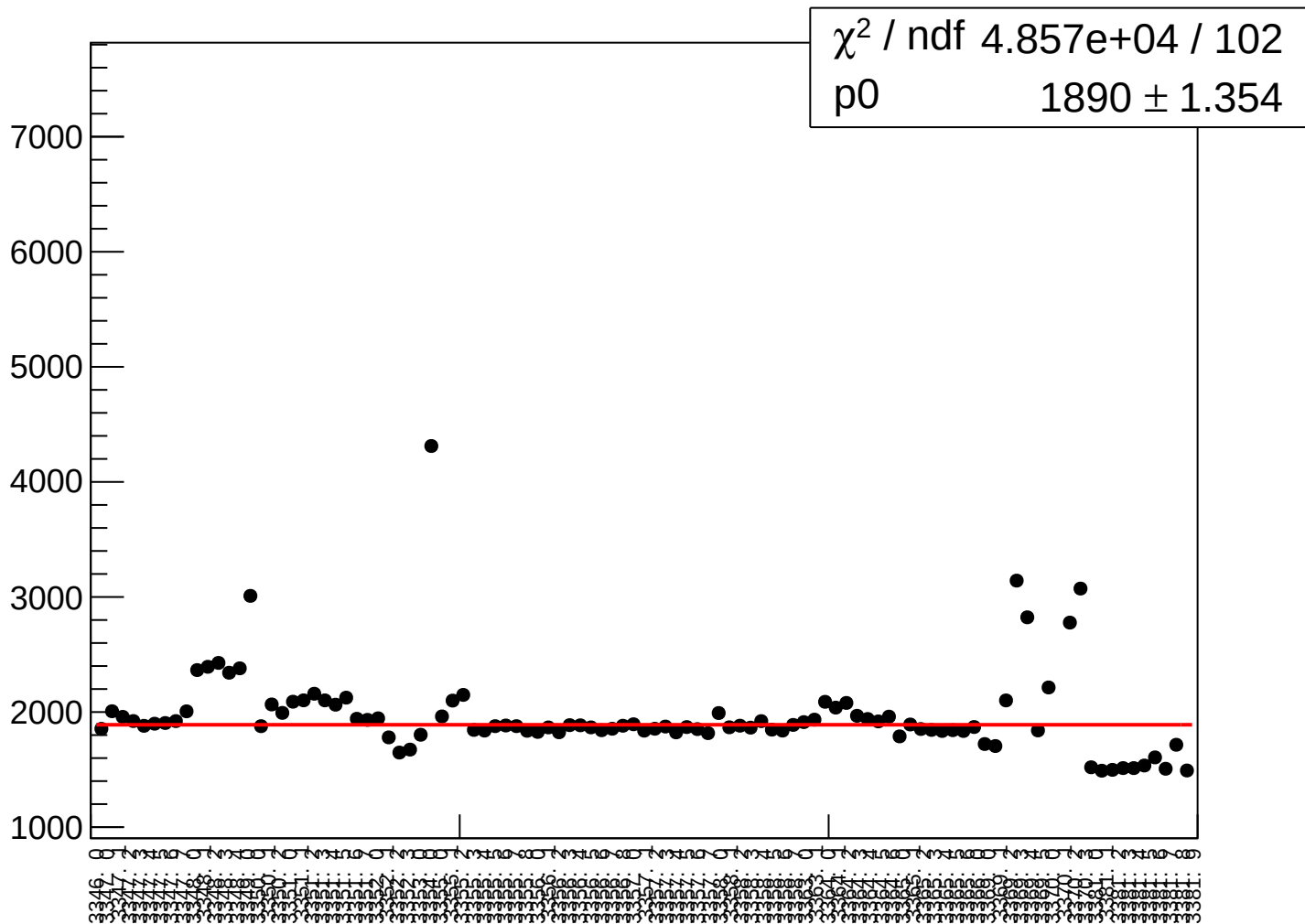
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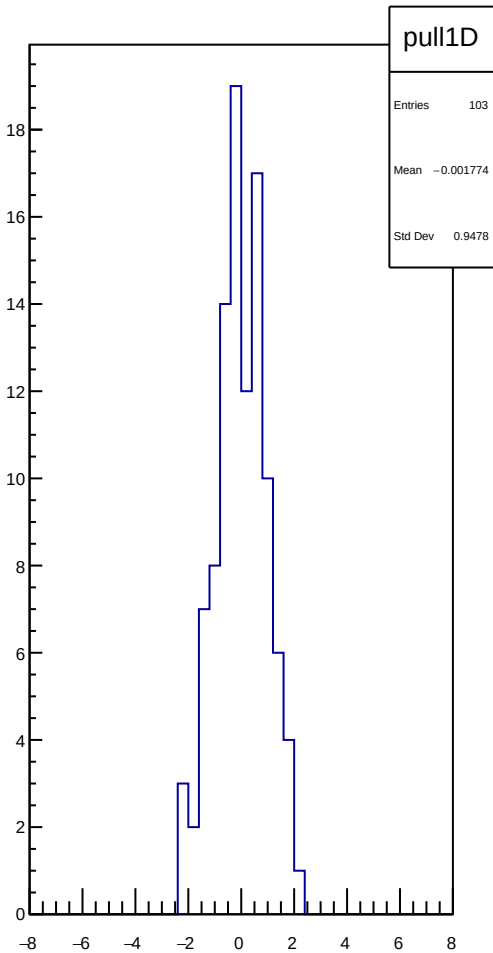
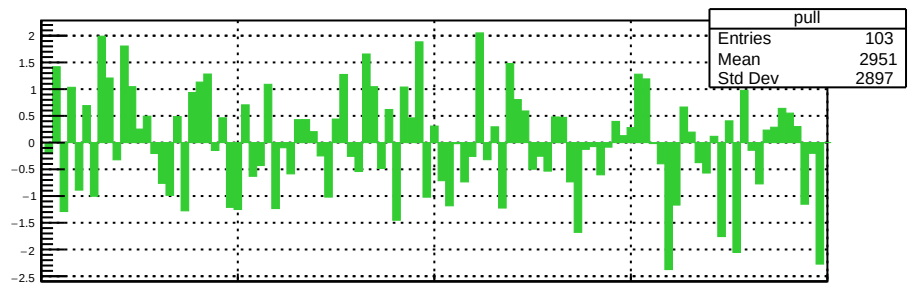
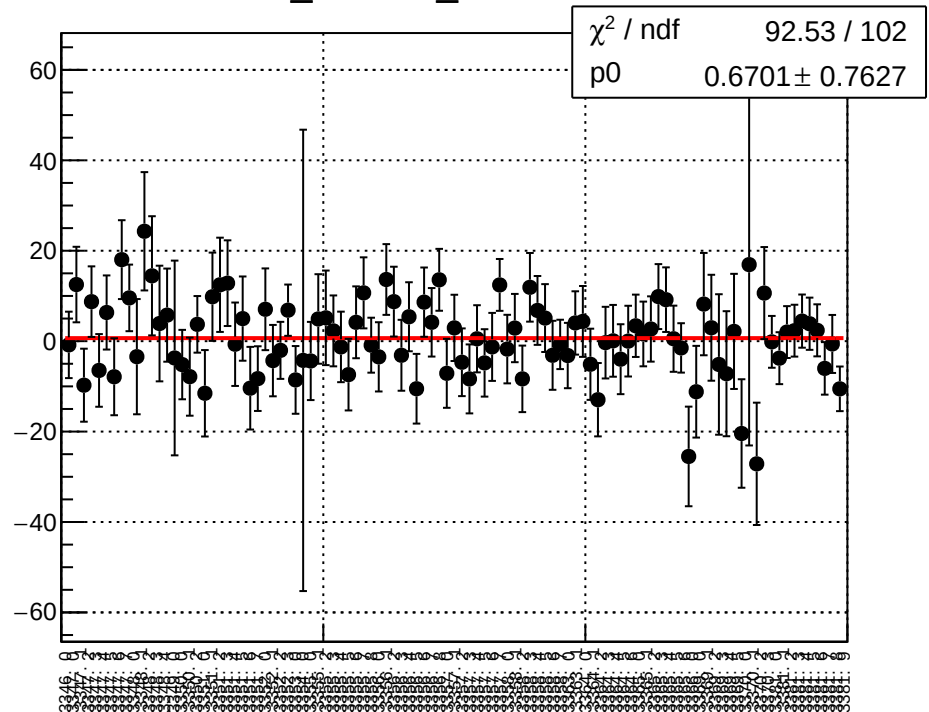
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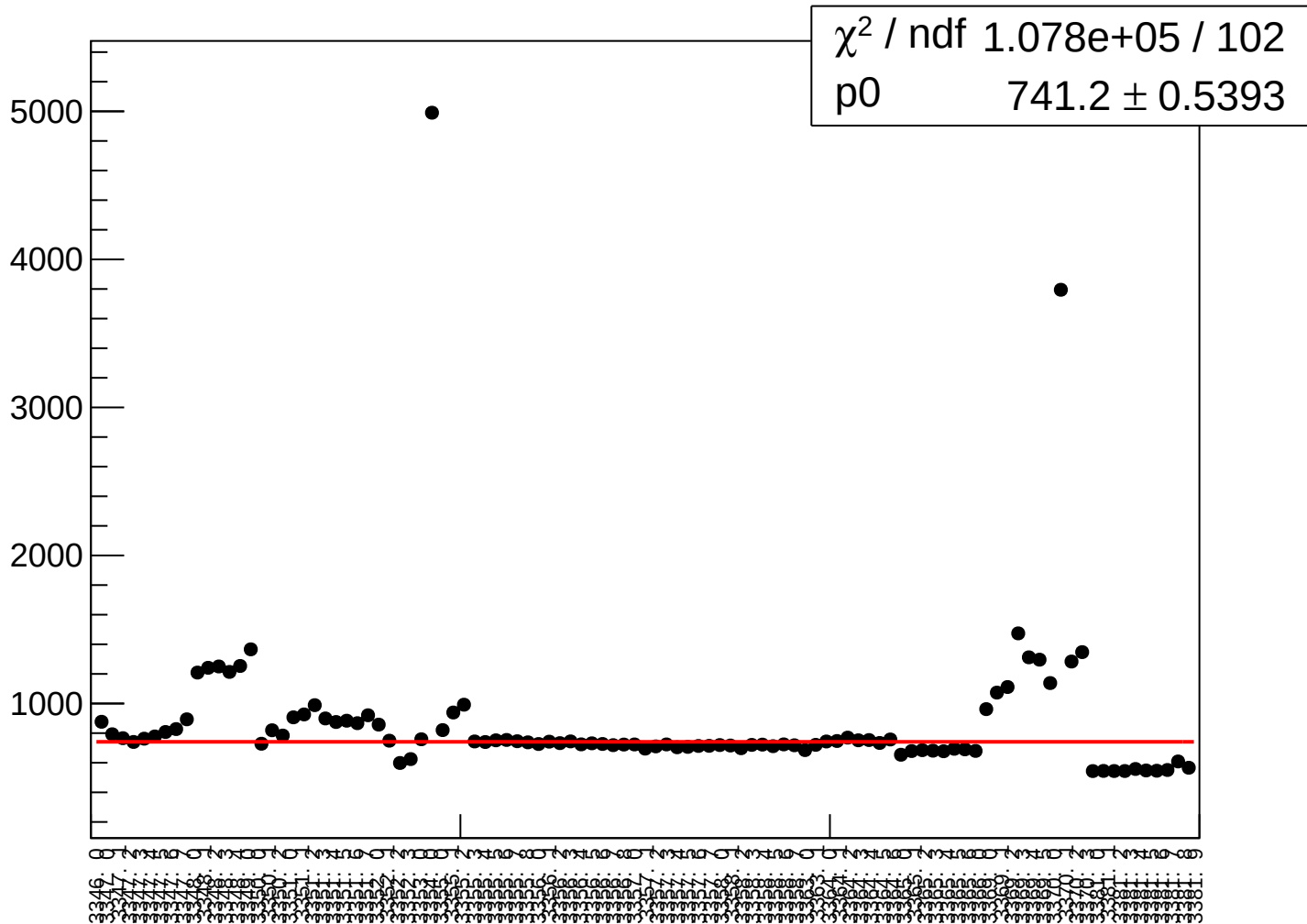
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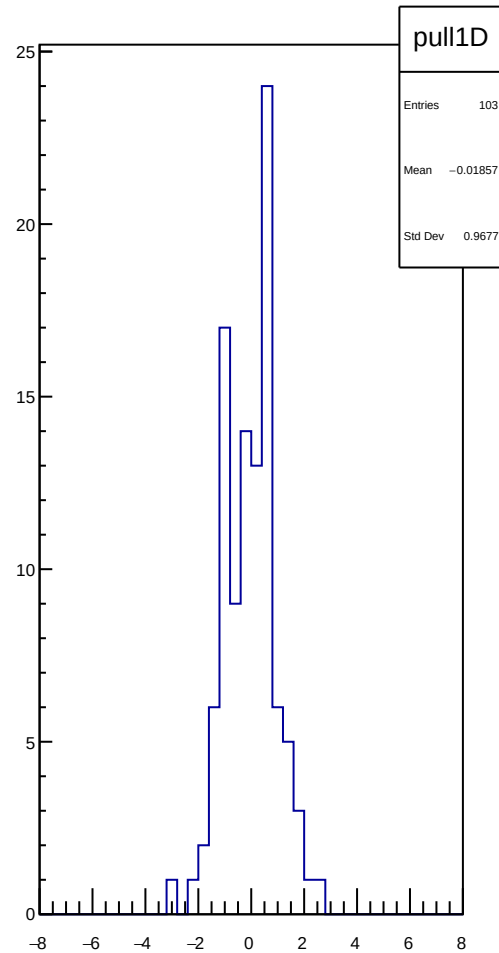
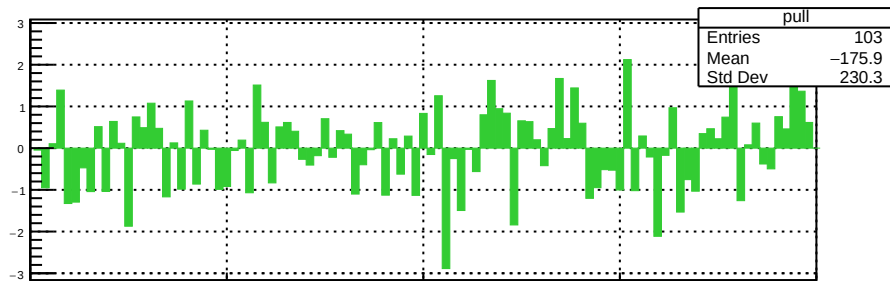
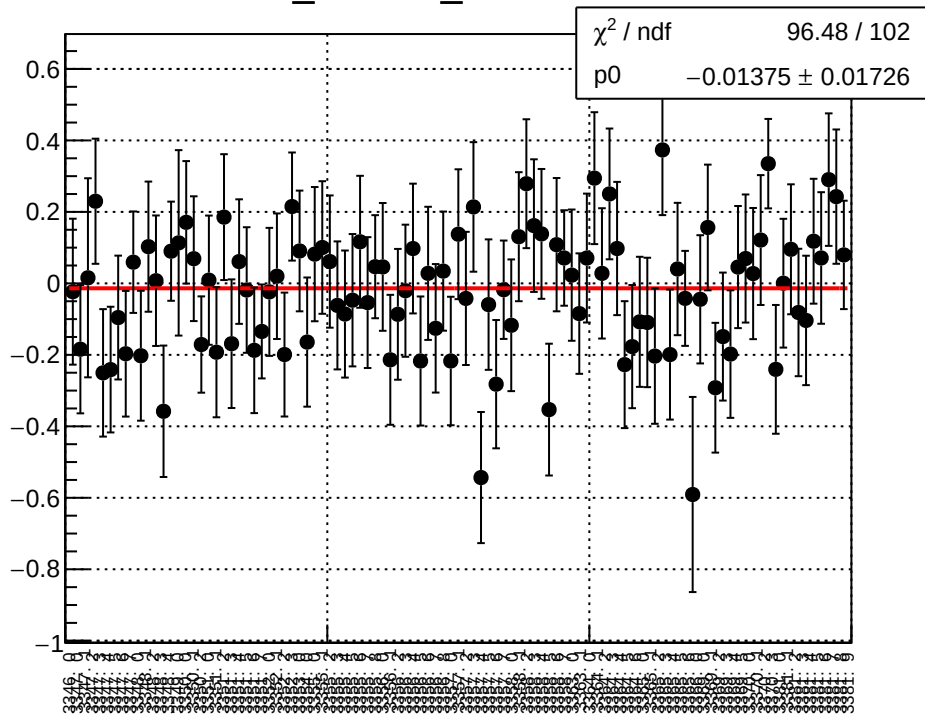
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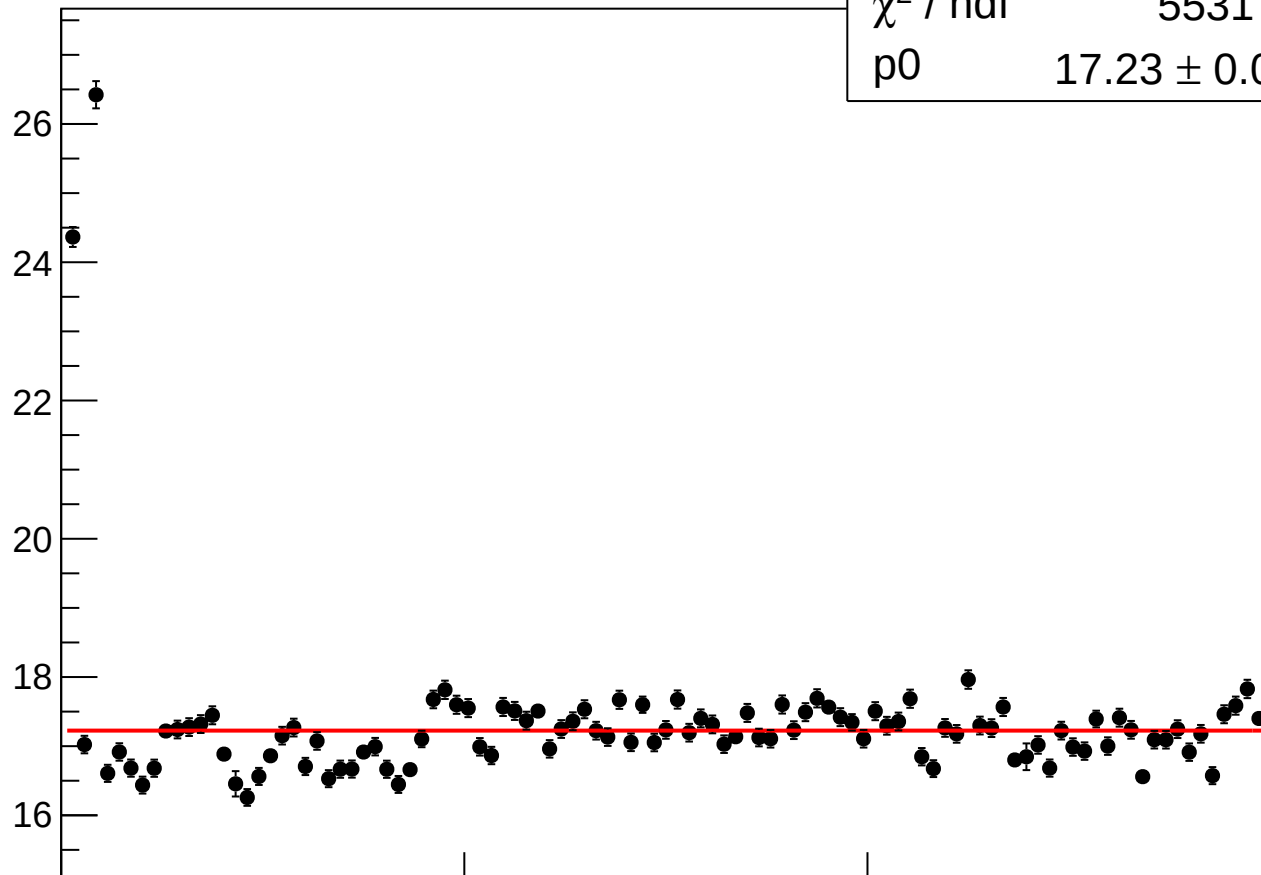
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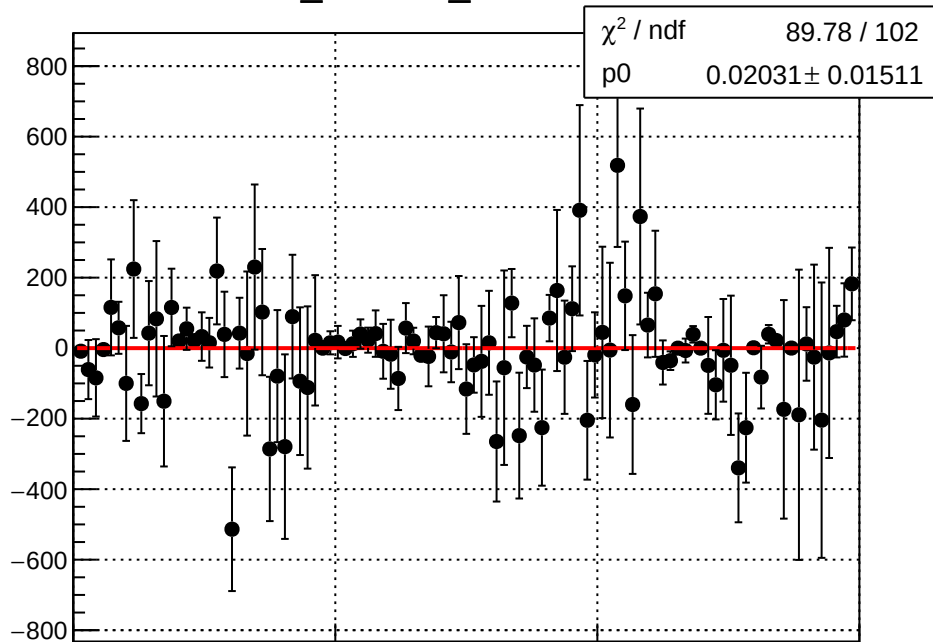
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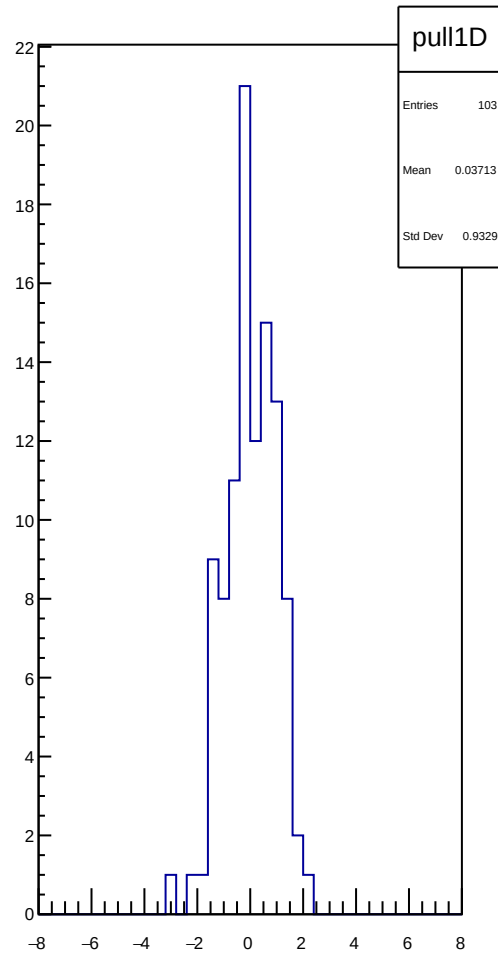
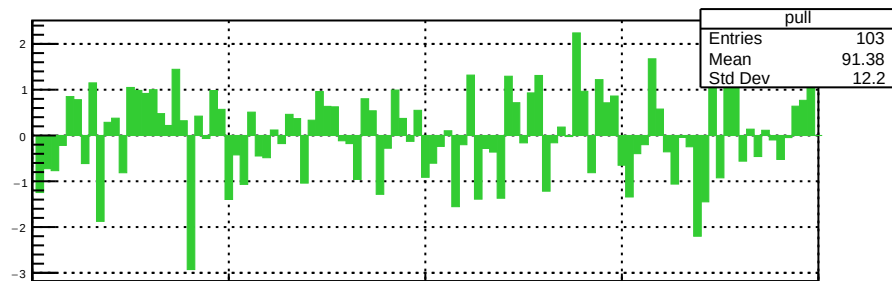
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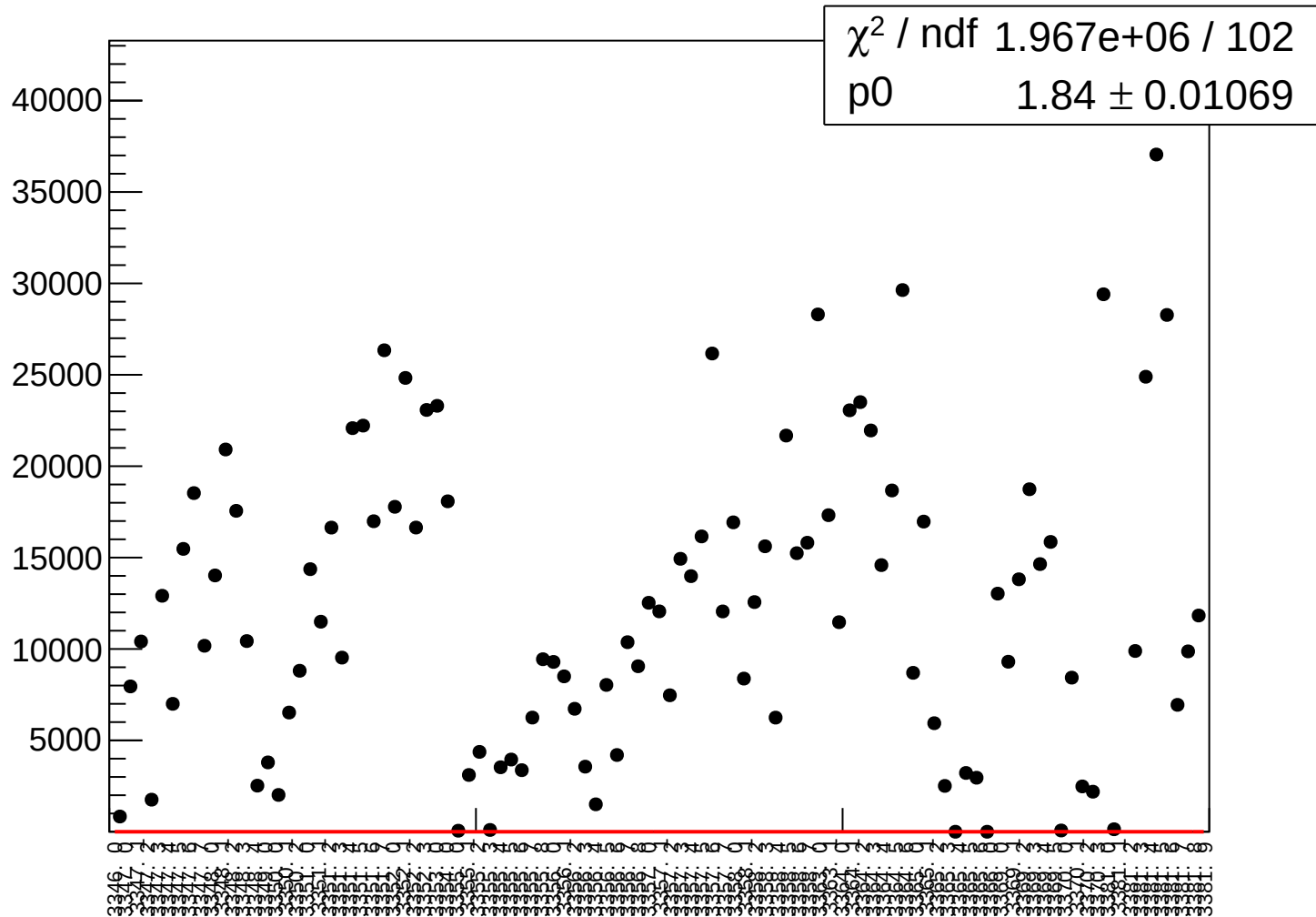
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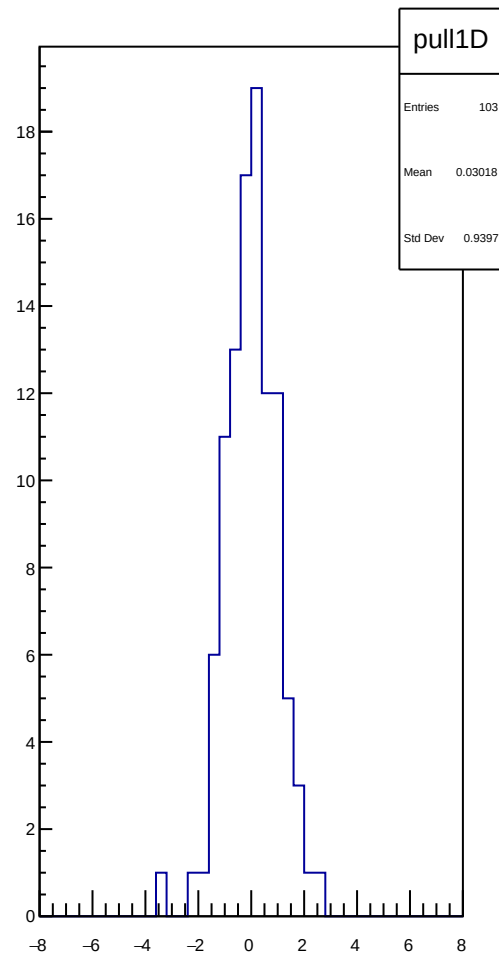
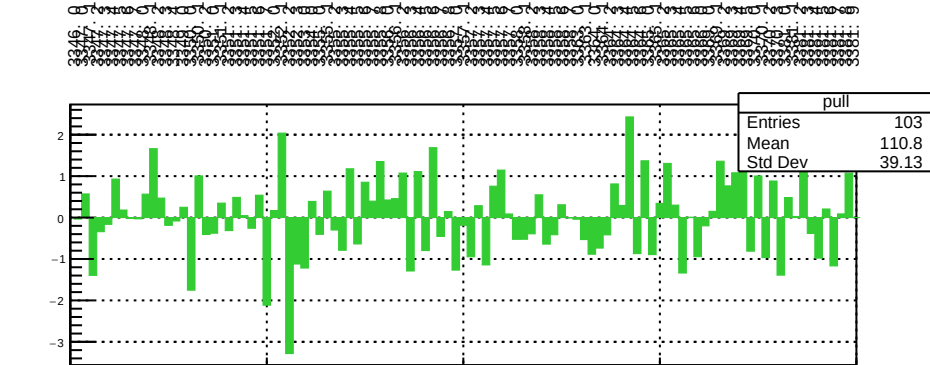
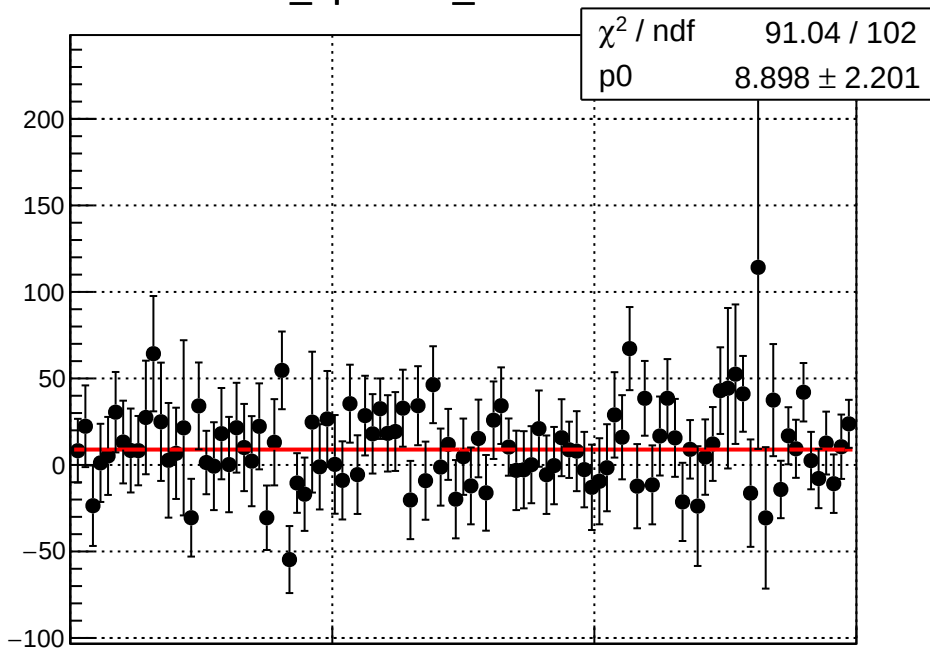
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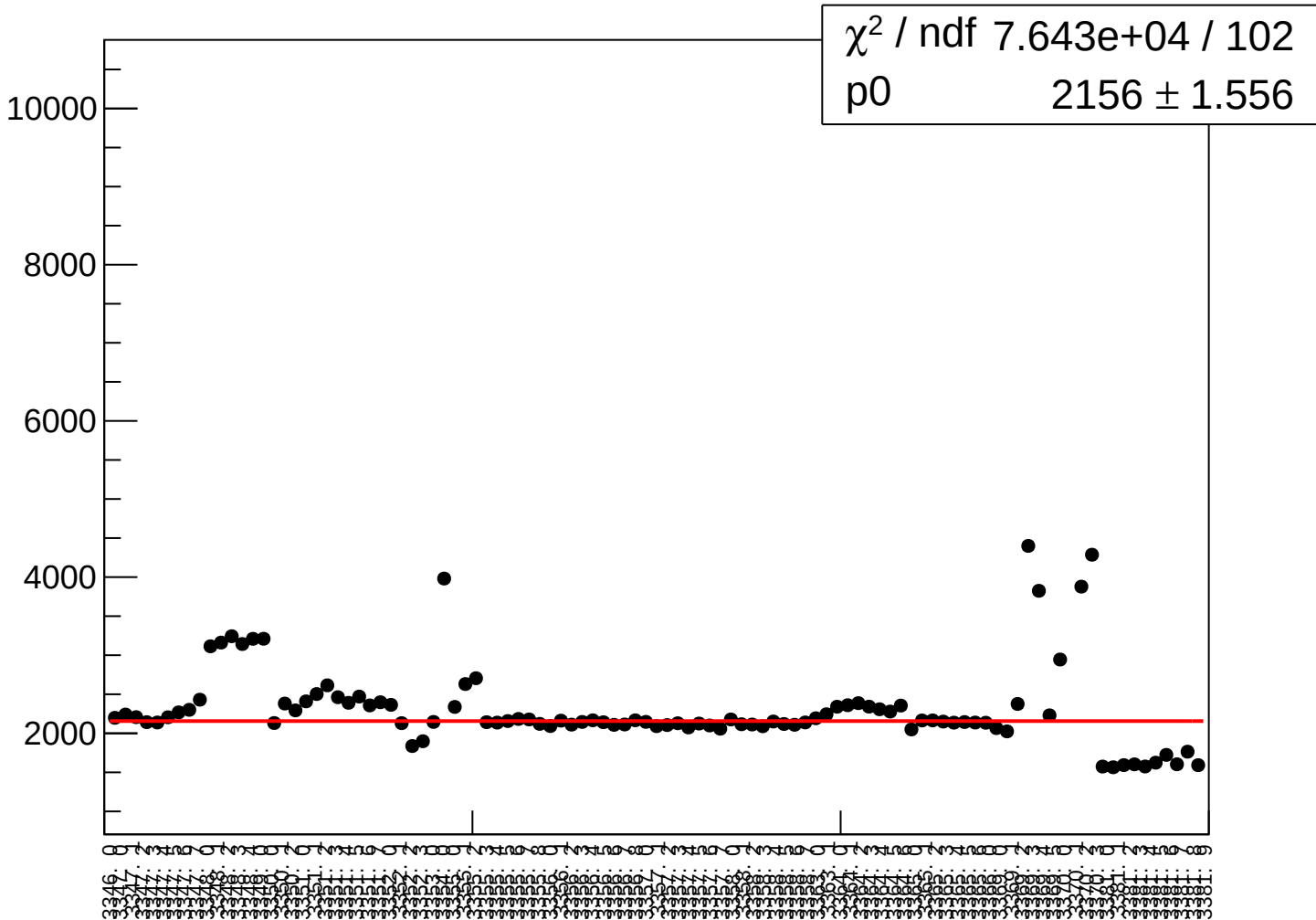
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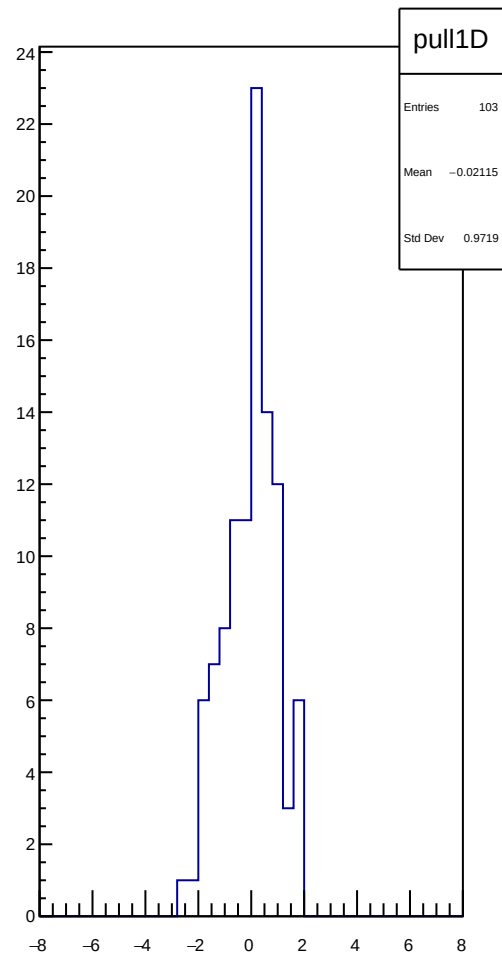
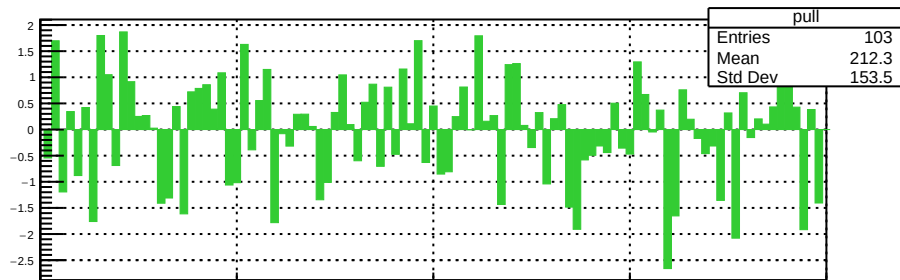
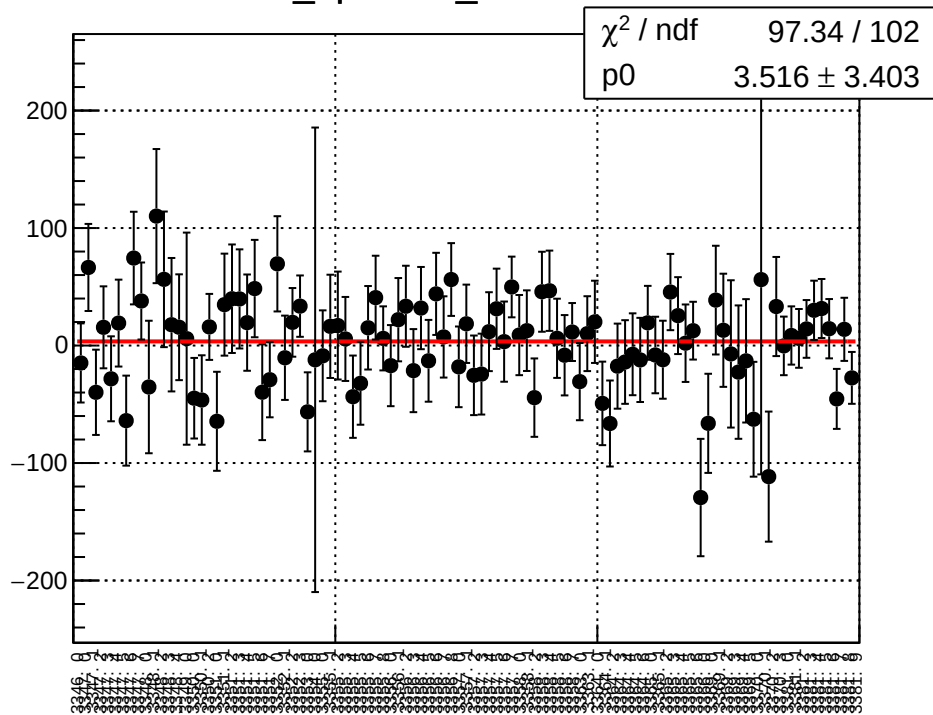
diff_bpm4aX_mean vs run



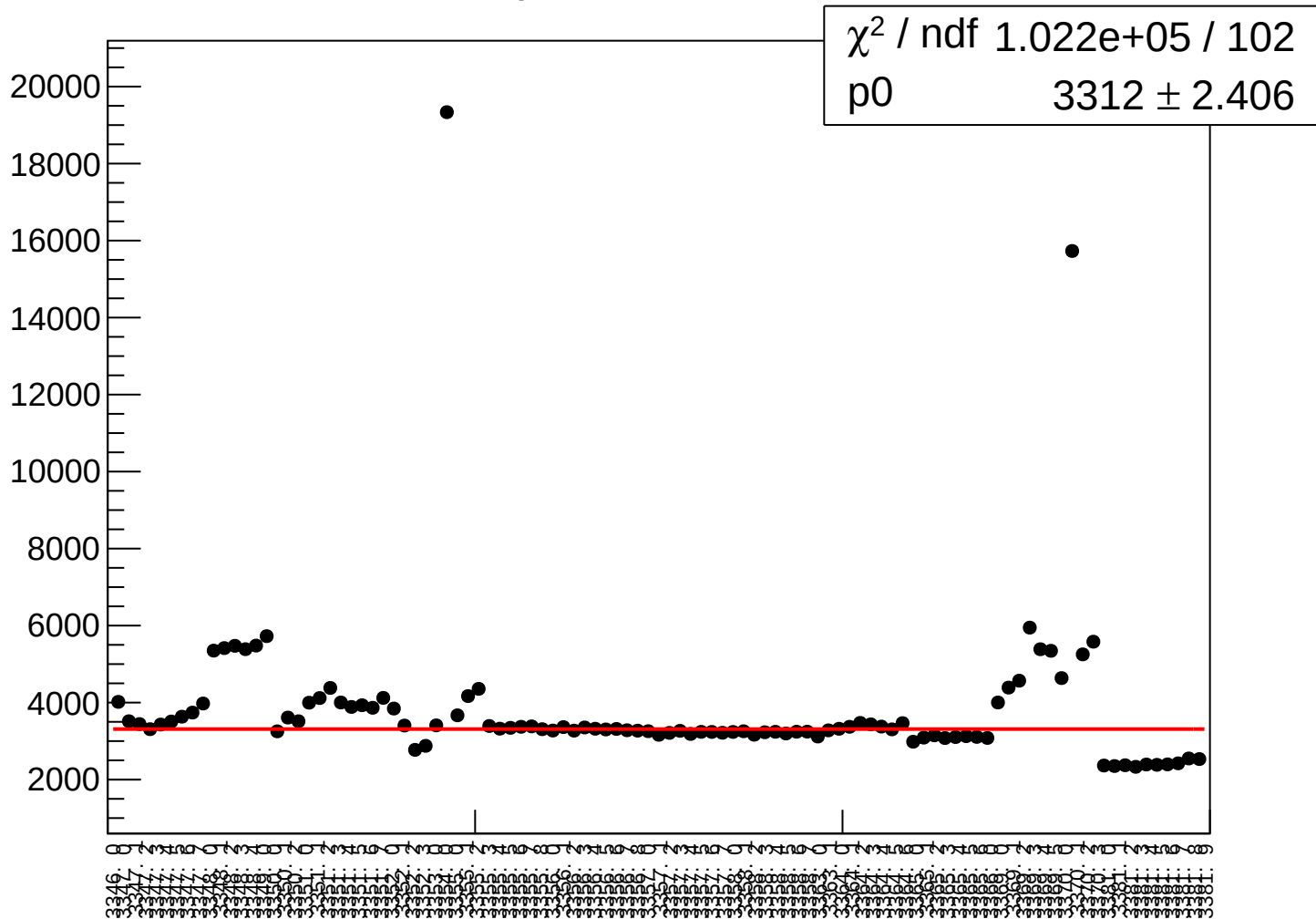
diff_bpm4aX_rms vs run



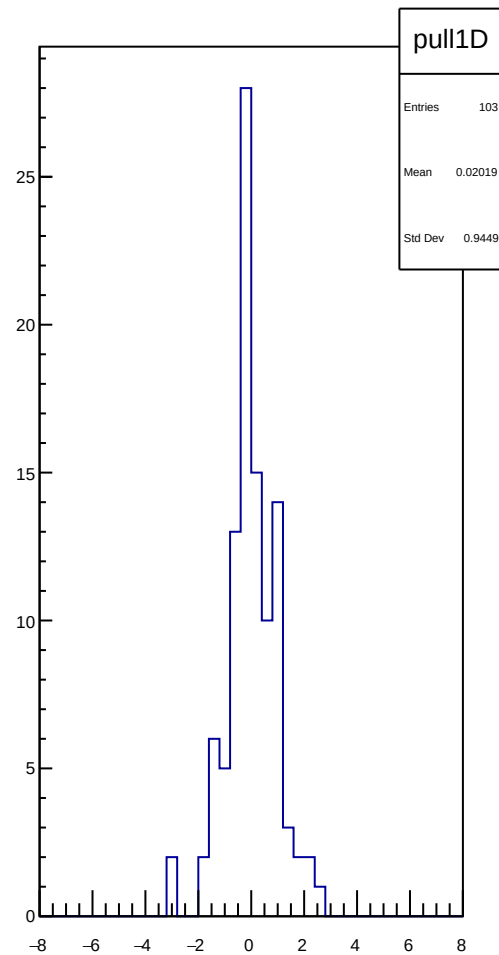
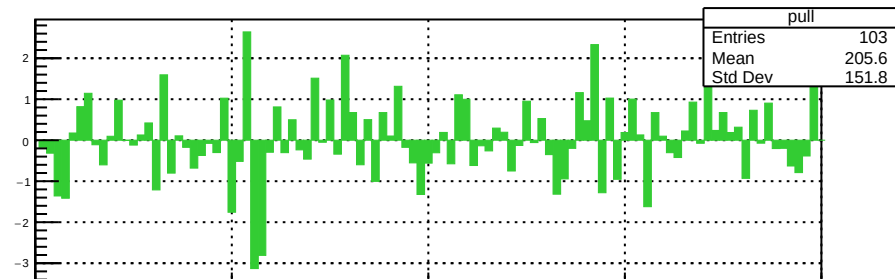
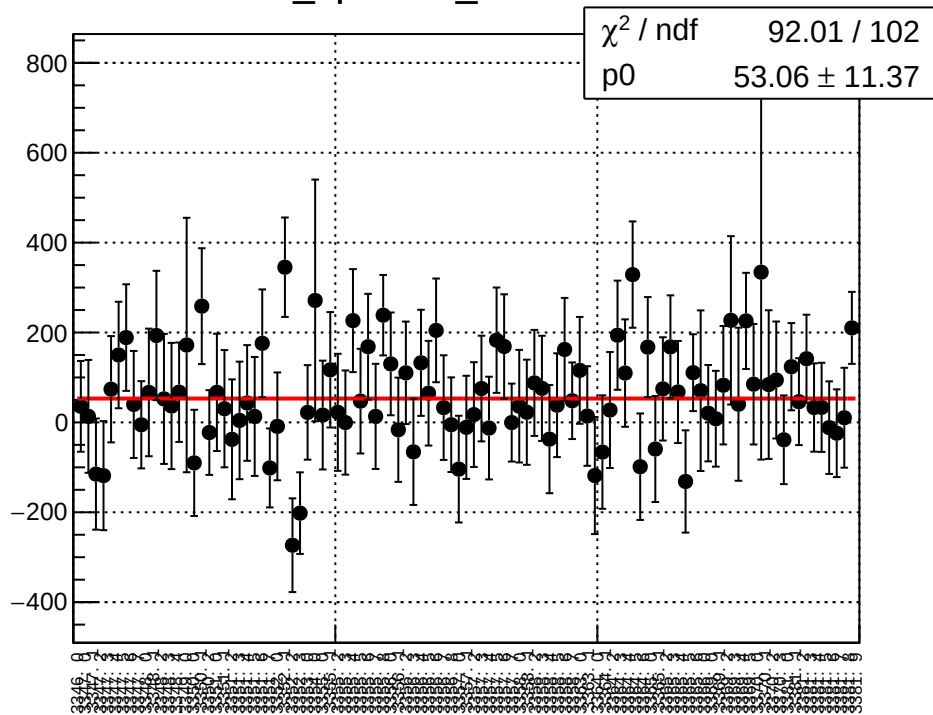
diff_bpm4aY_mean vs run



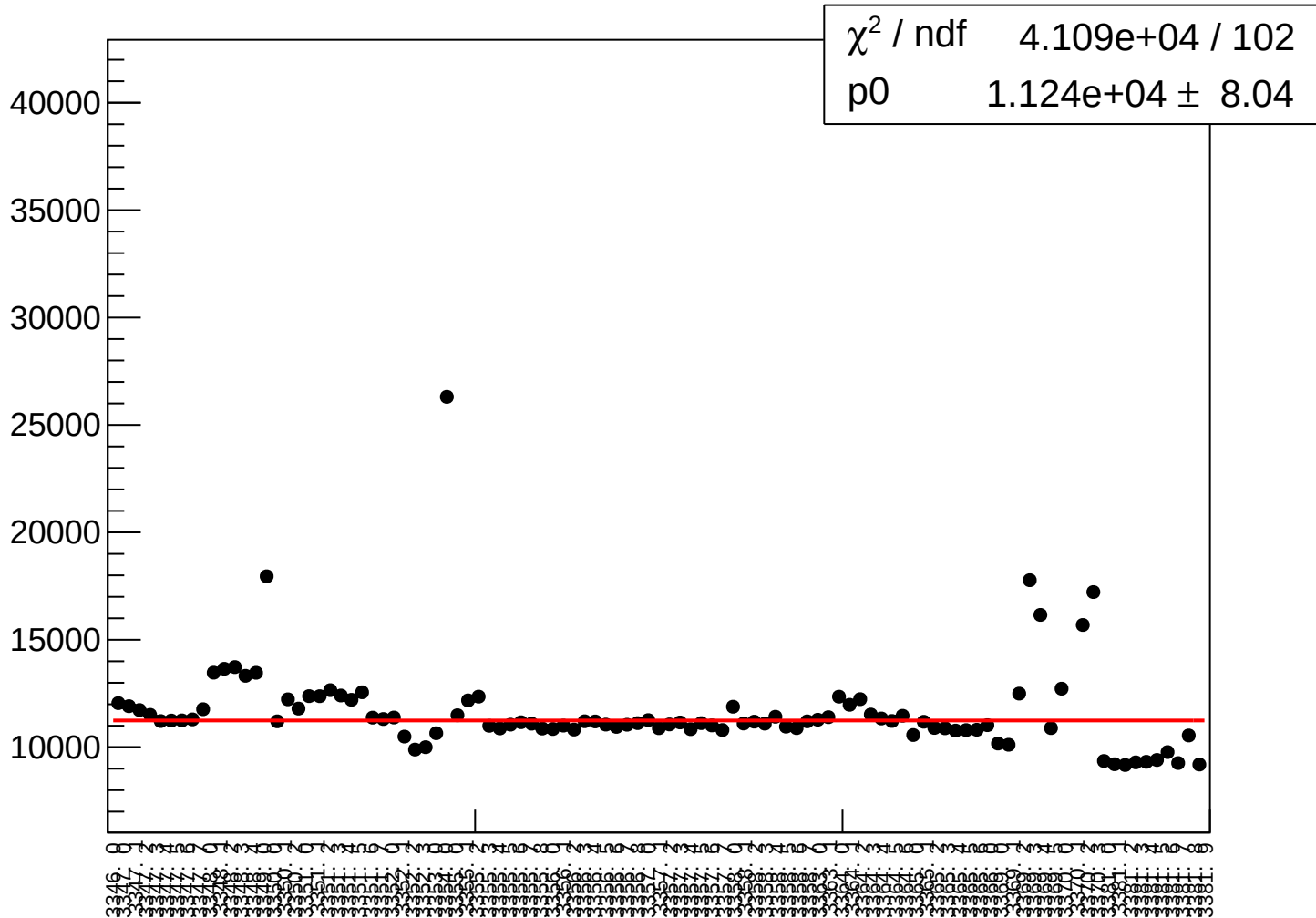
diff_bpm4aY_rms vs run



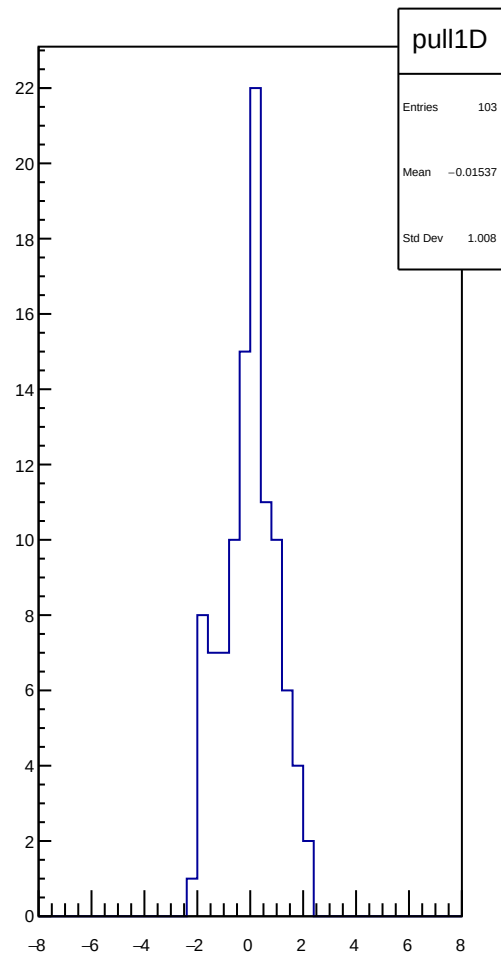
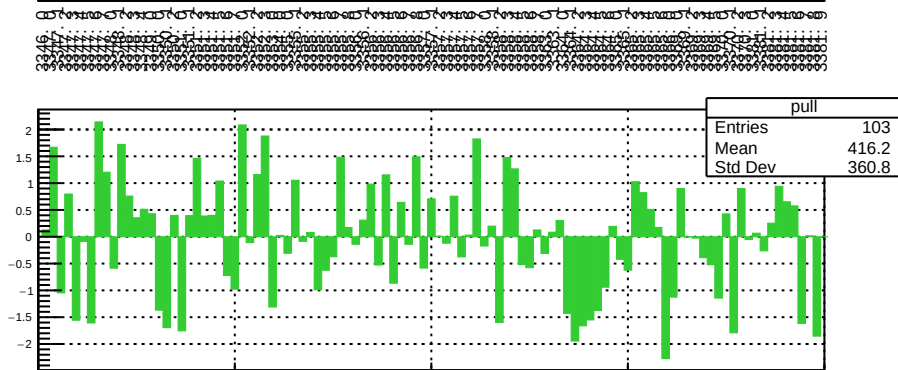
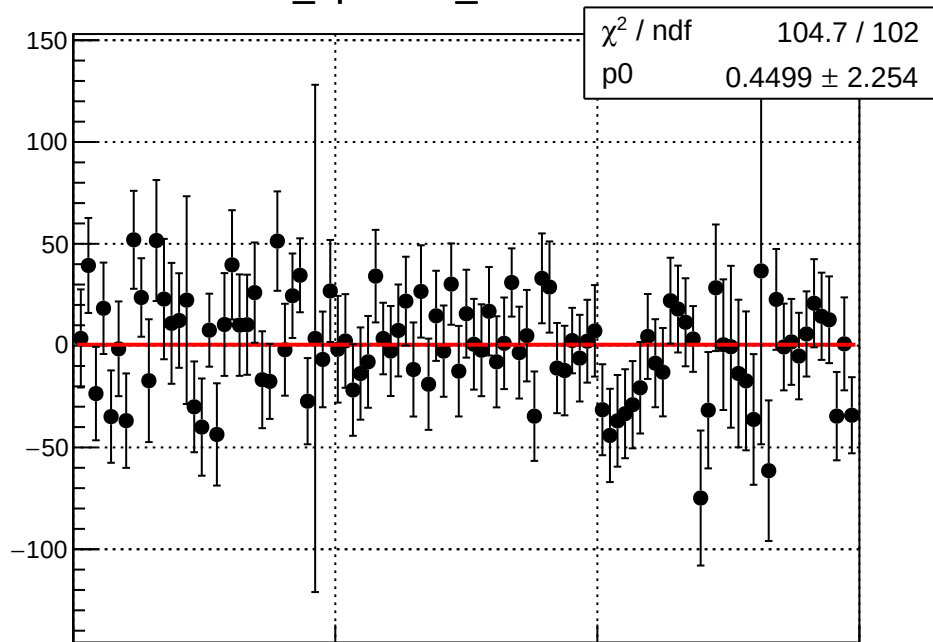
diff_bpm4eX_mean vs un



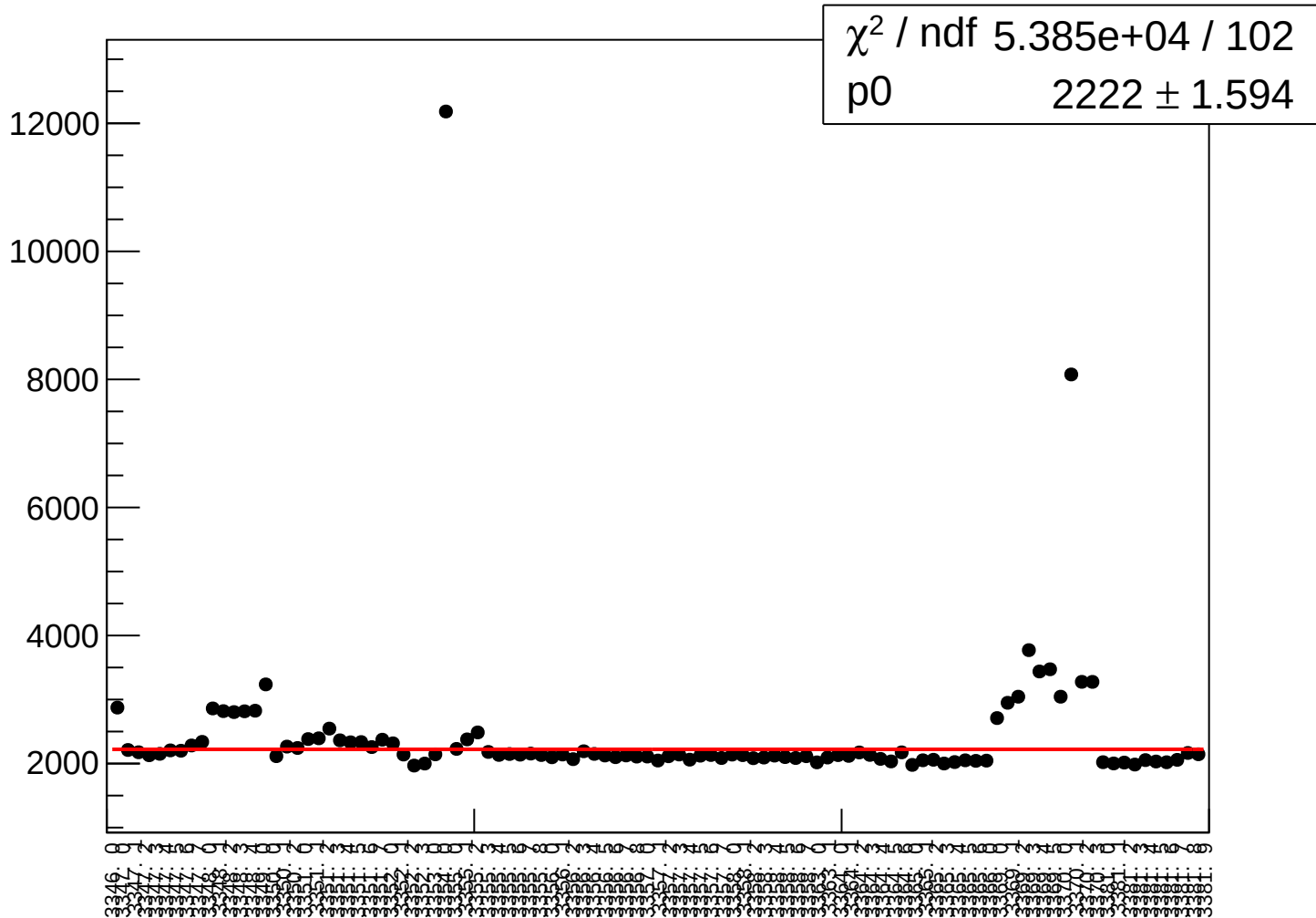
diff_bpm4eX_rms vs run



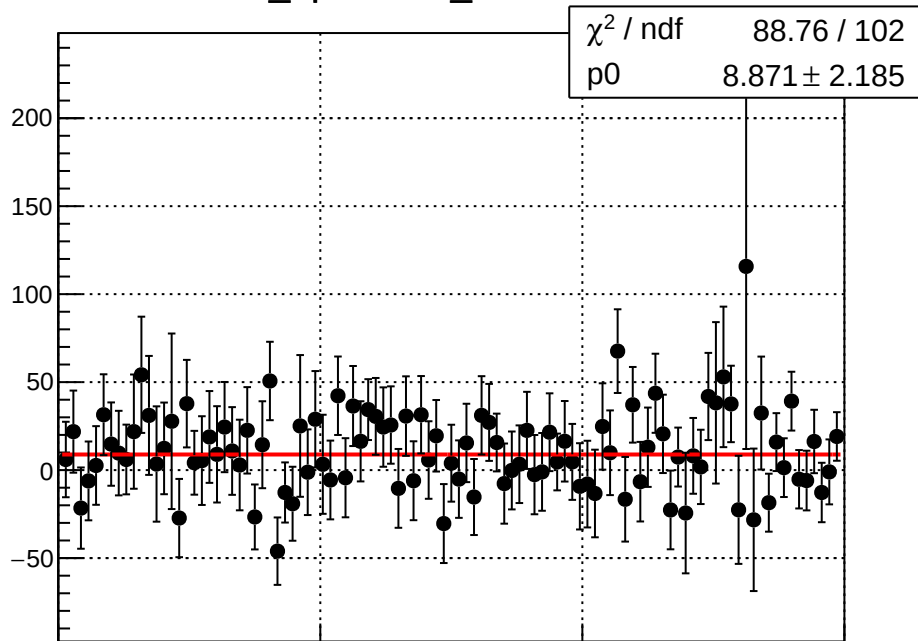
diff_bpm4eY_mean vs run



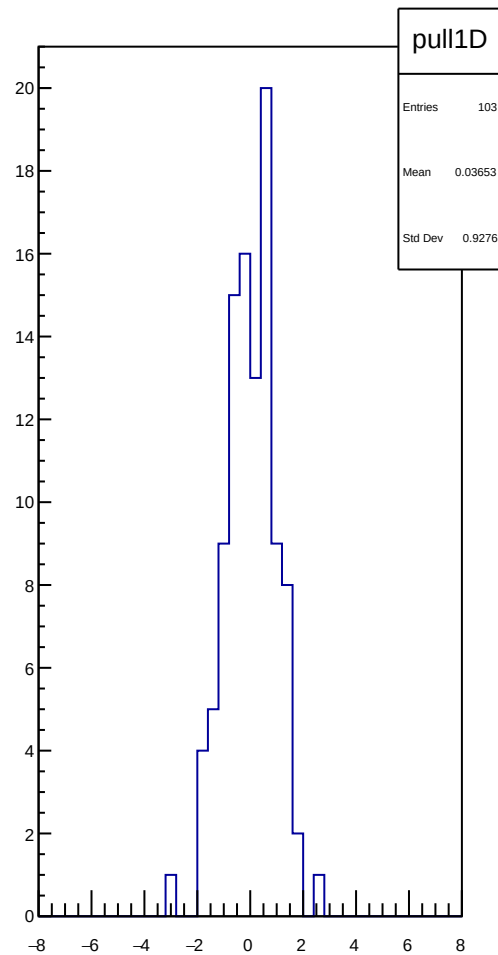
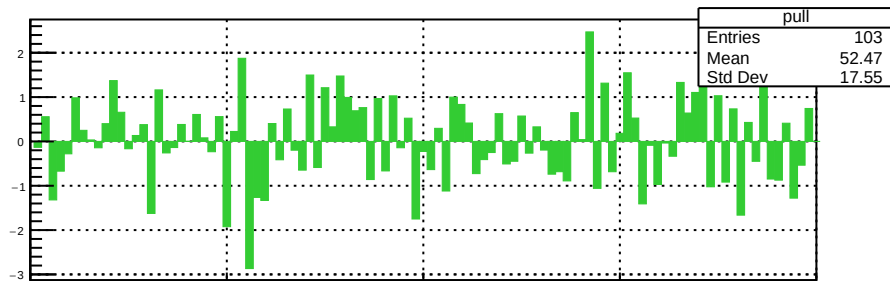
diff_bpm4eY_rms vs run



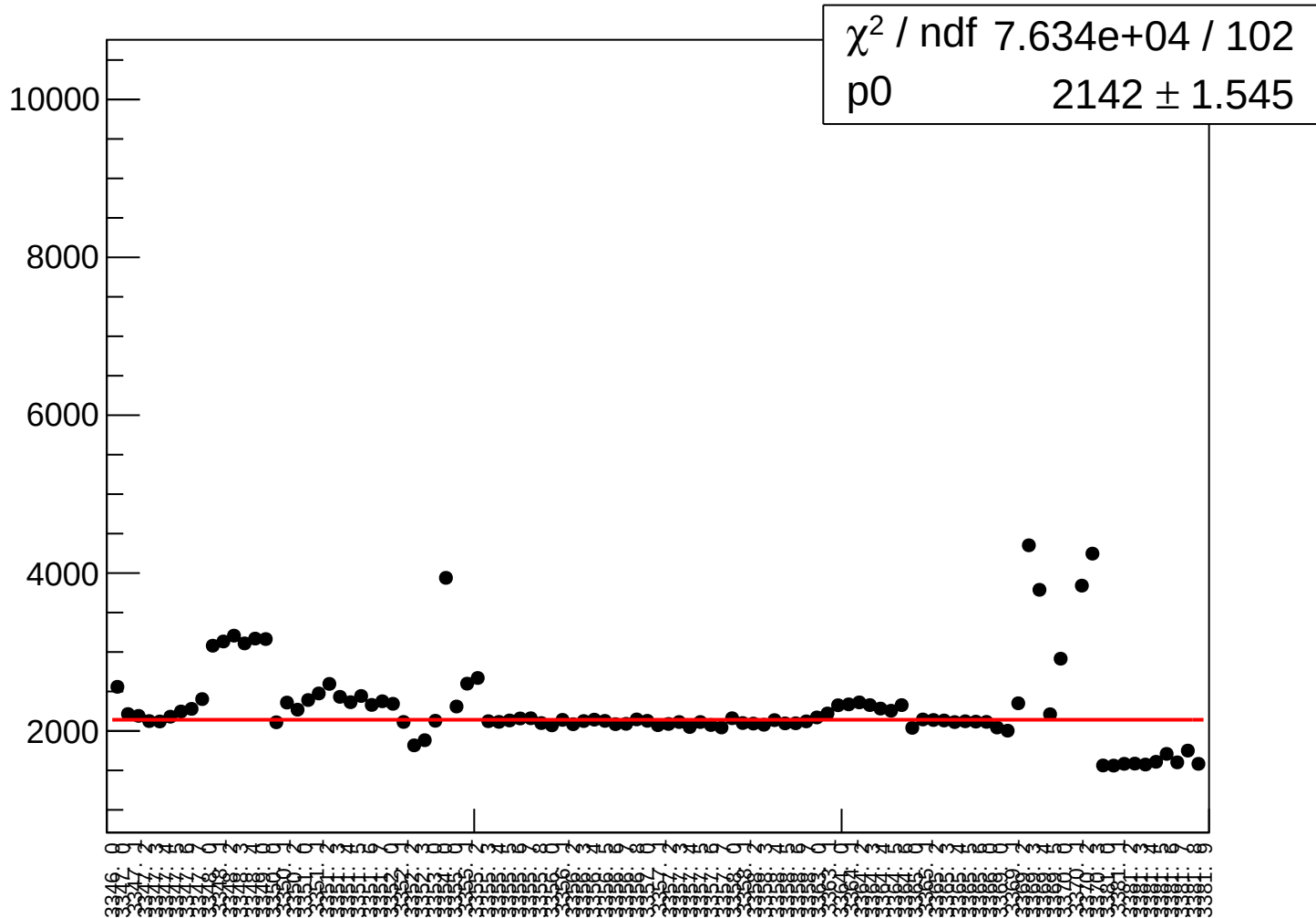
diff_bpm4acX_mean vs run



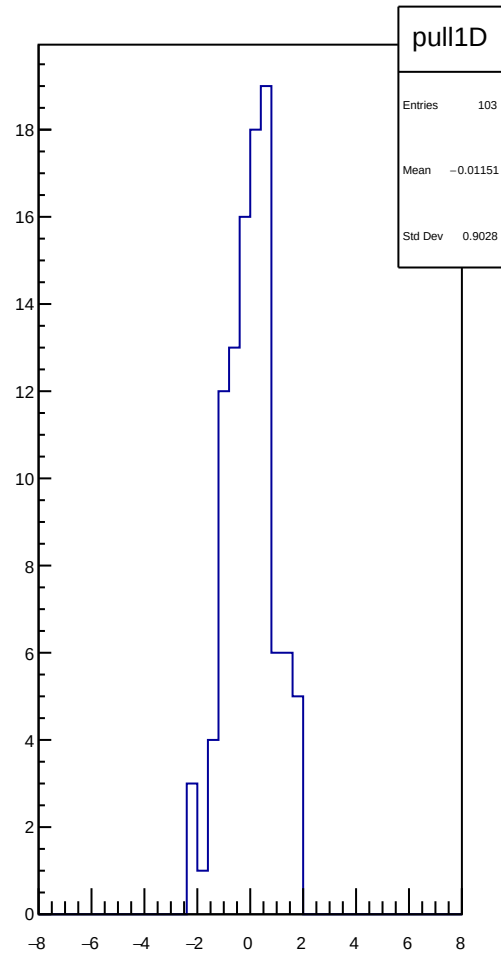
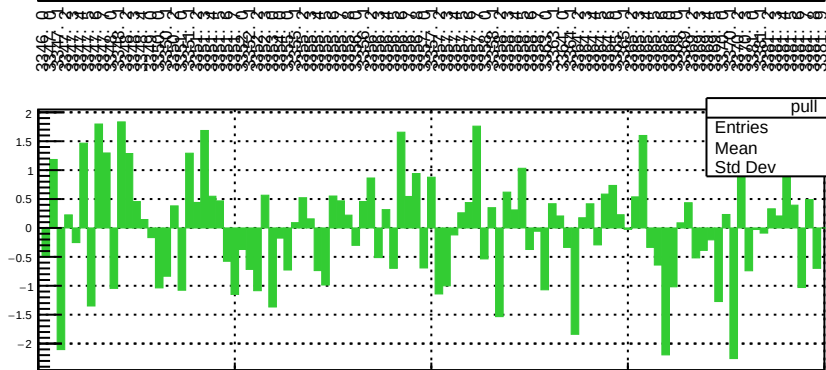
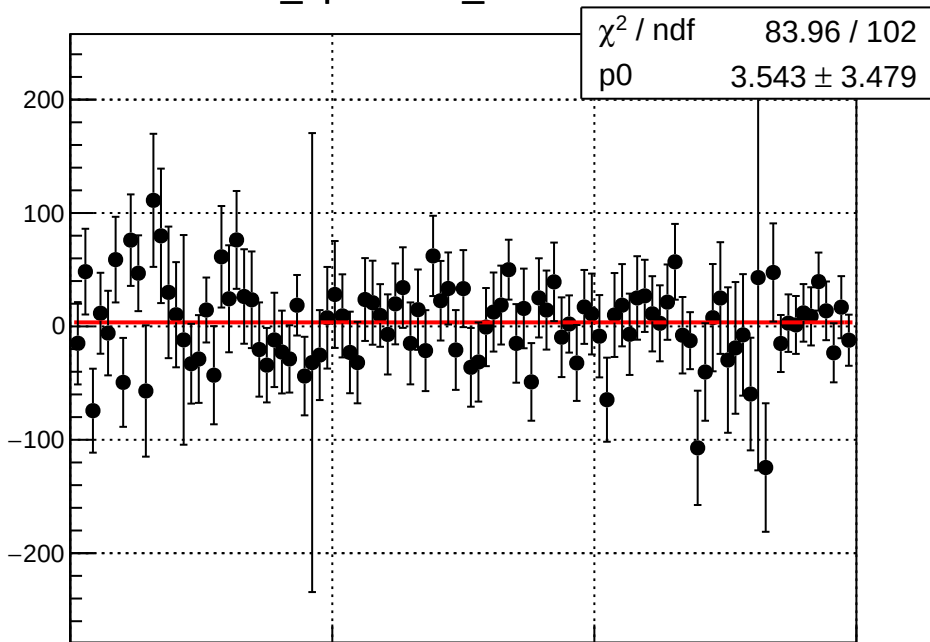
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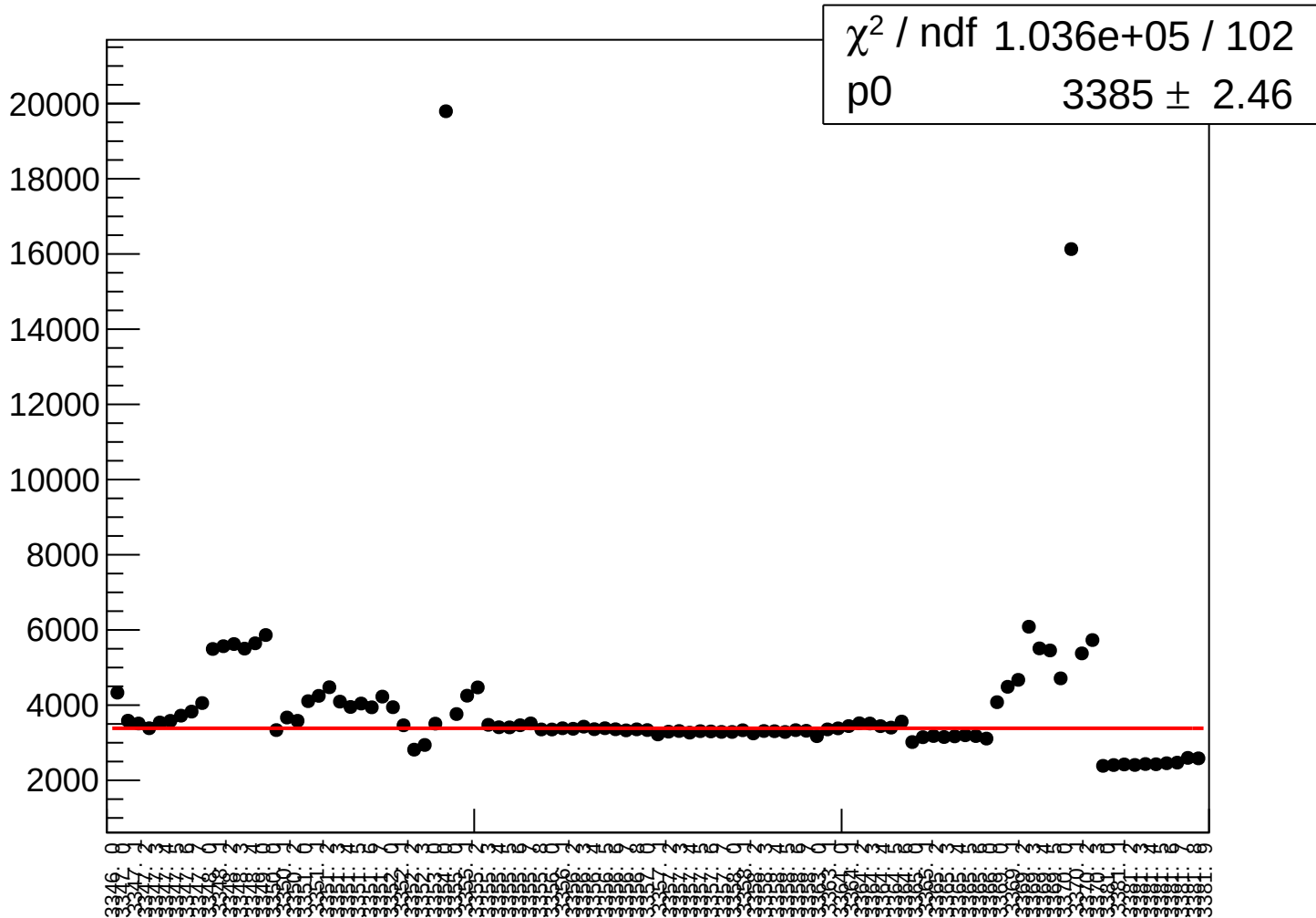
diff_bpm4acX_rms vs run



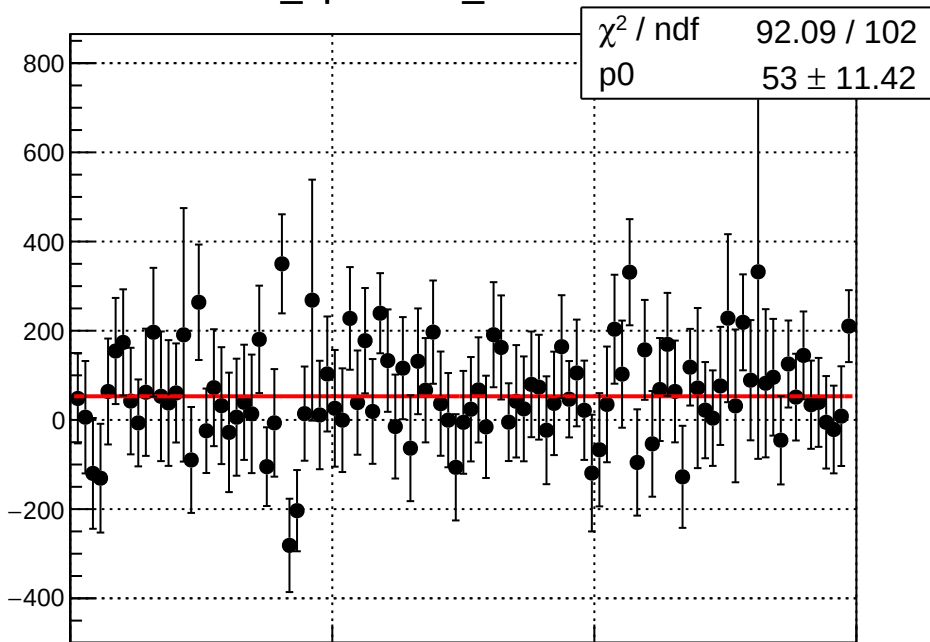
diff_bpm4acY_mean vs run



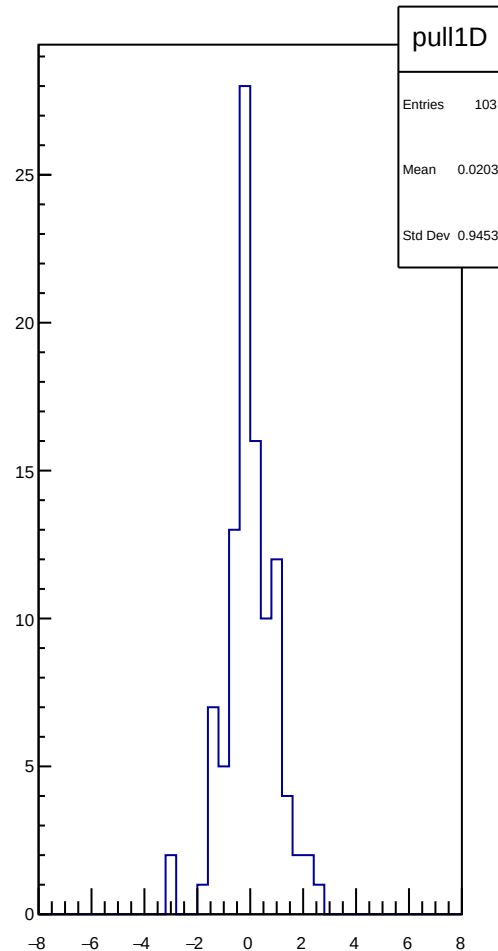
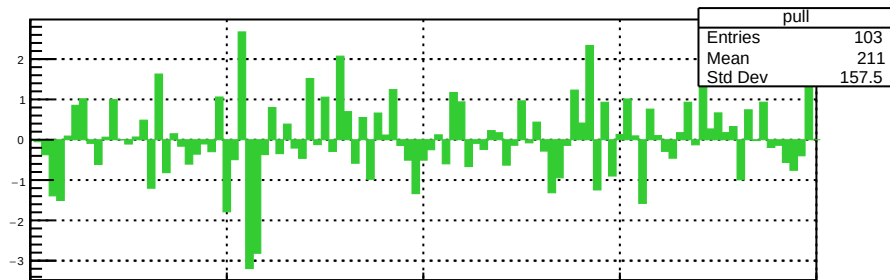
diff_bpm4acY_rms vs run



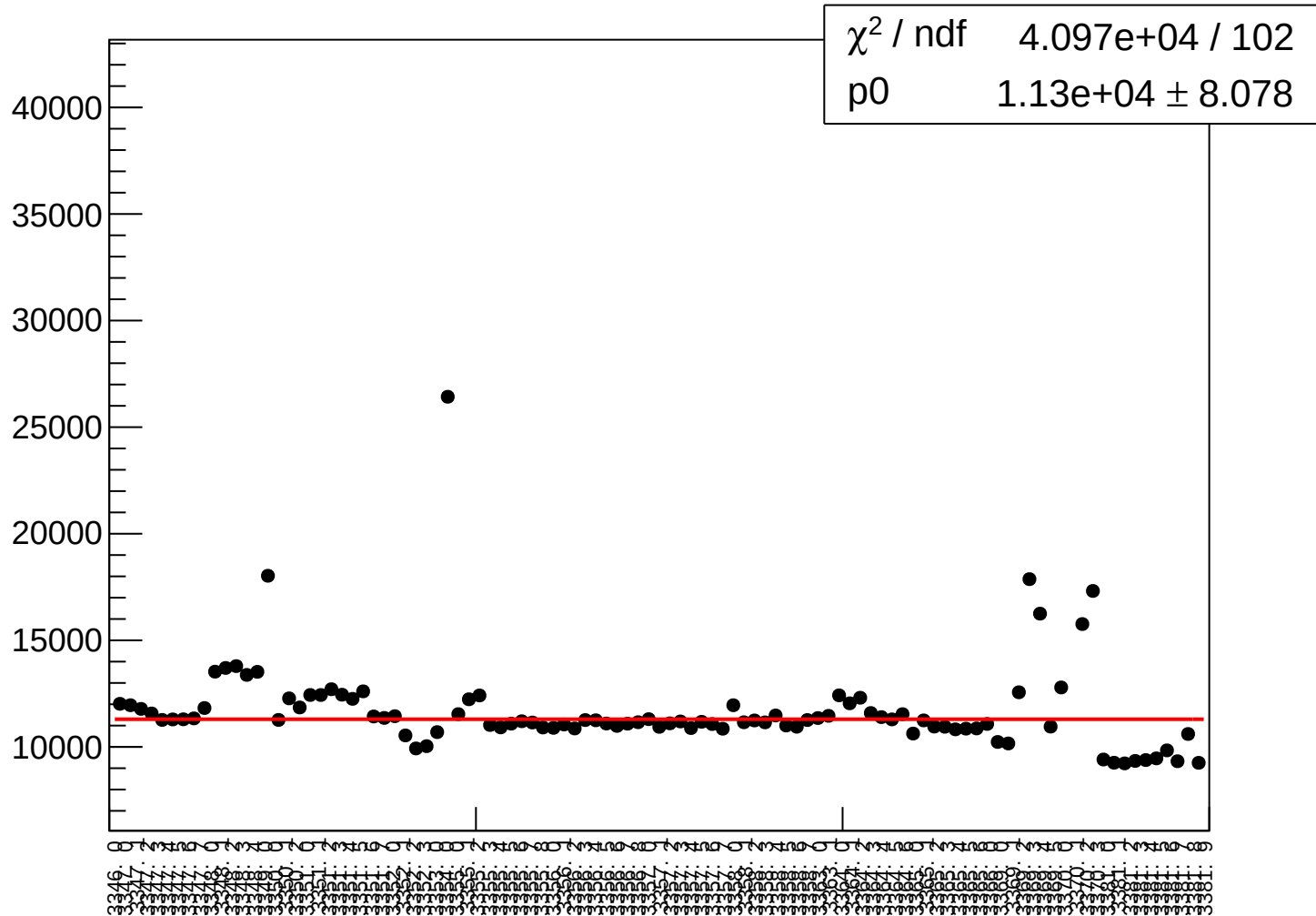
diff_bpm4ecX_mean vs run



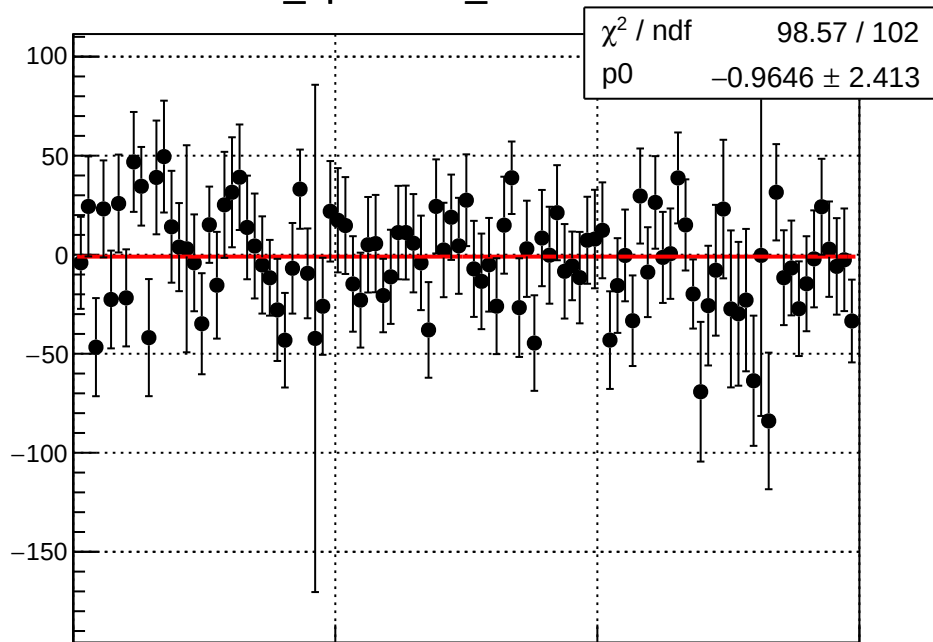
diff_bpm4ecX_mean vs run



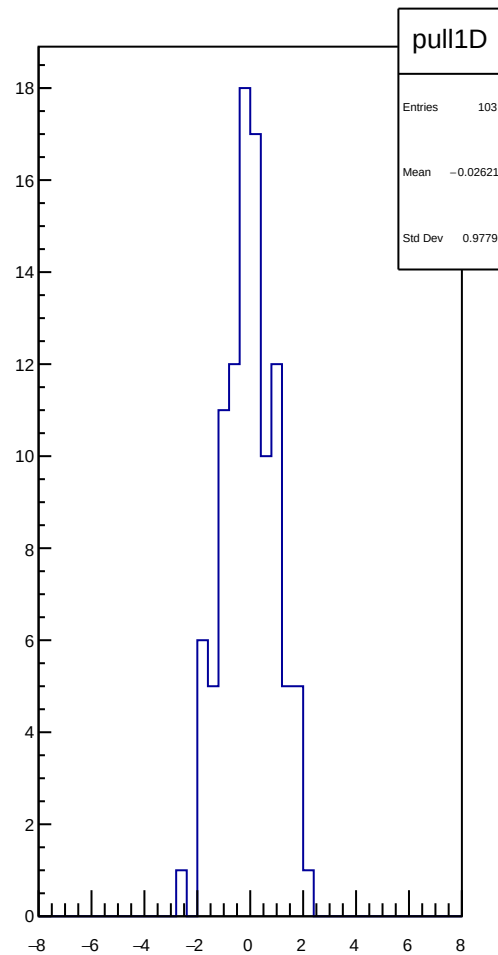
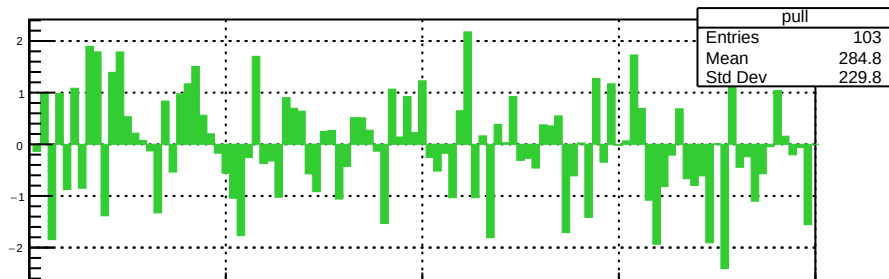
diff_bpm4ecX_rms vs run



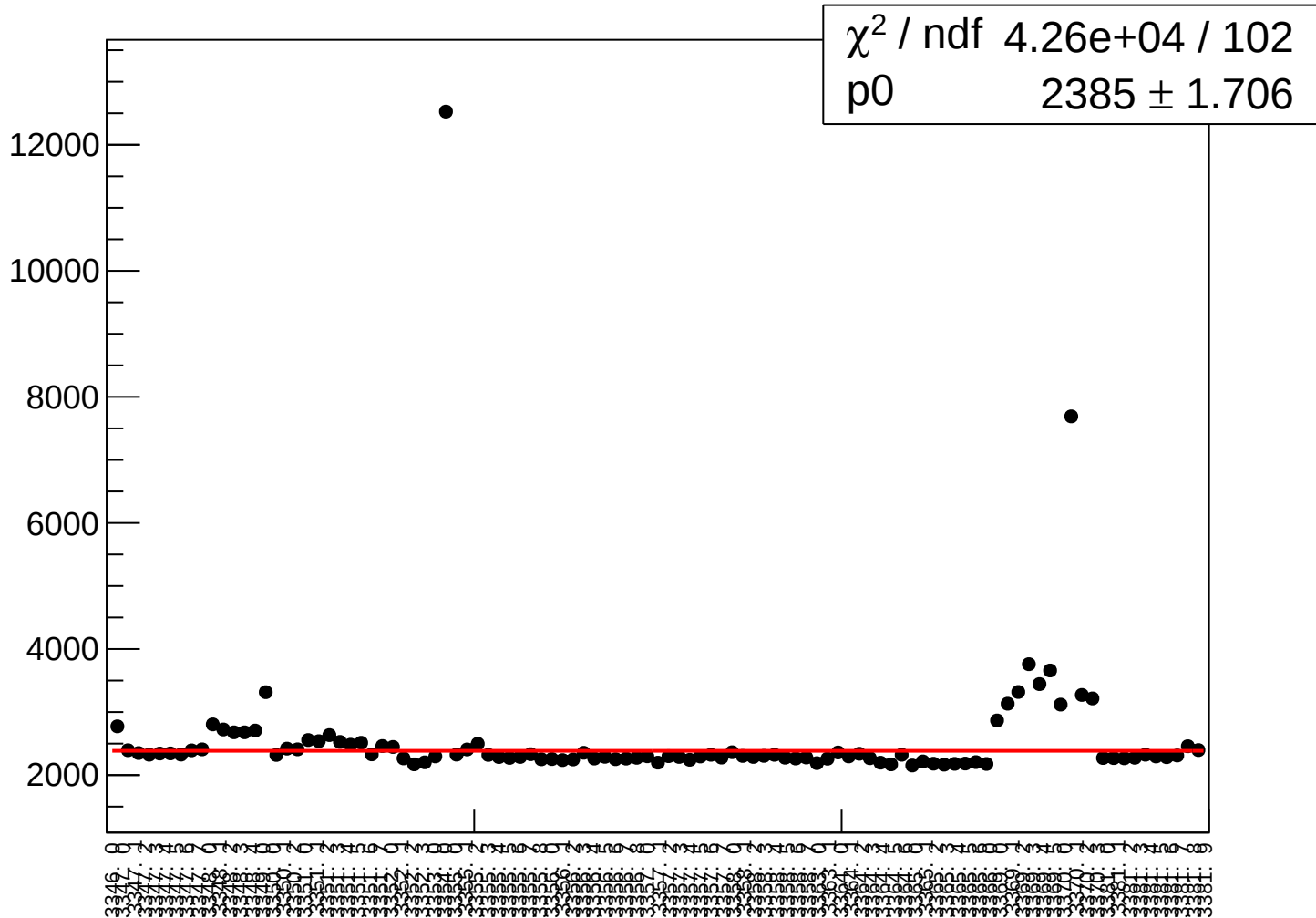
diff_bpm4ecY_mean vs run



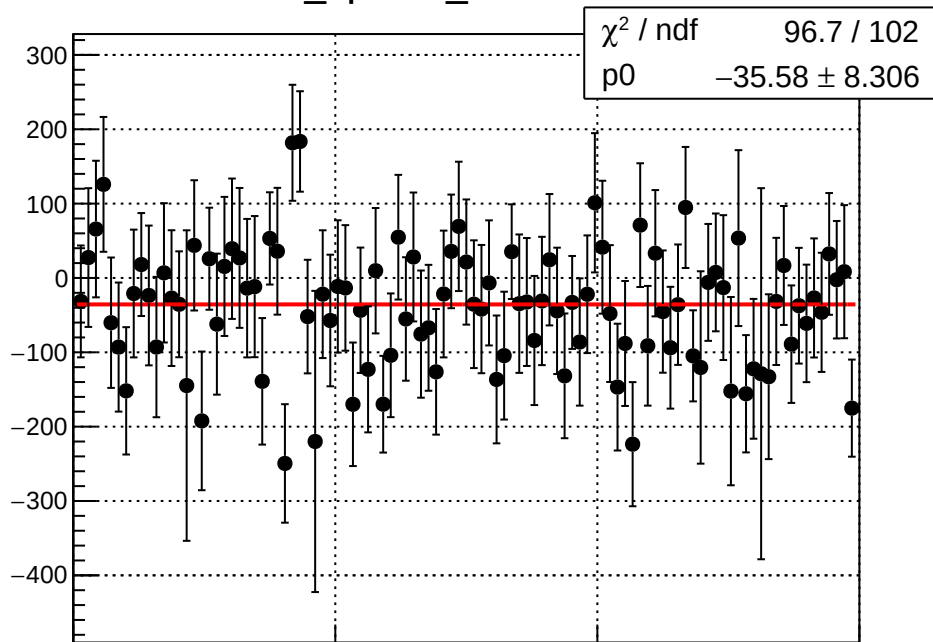
diff_bpm4ecY_mean vs run



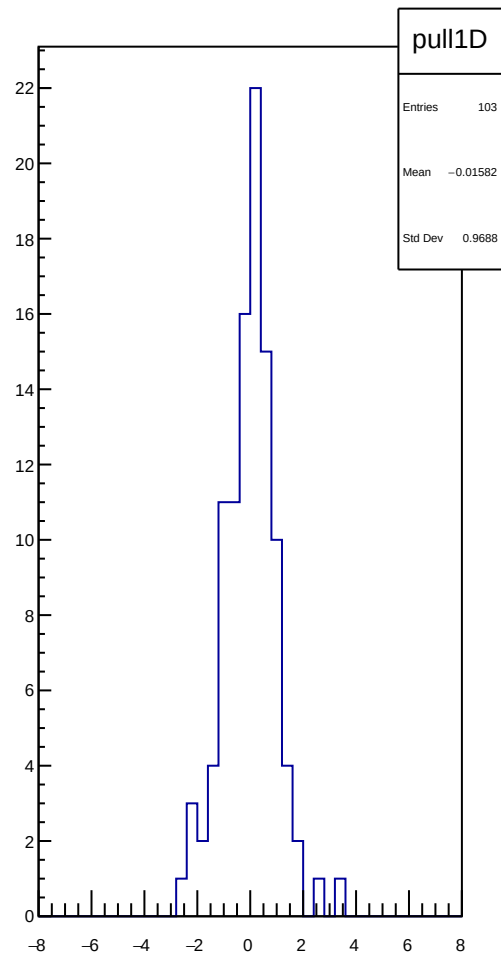
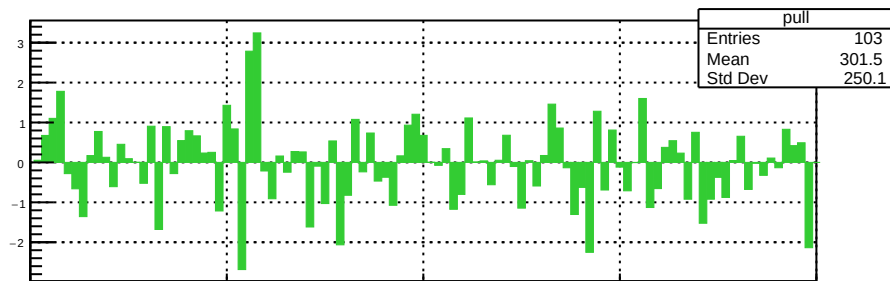
diff_bpm4ecY_rms vs run



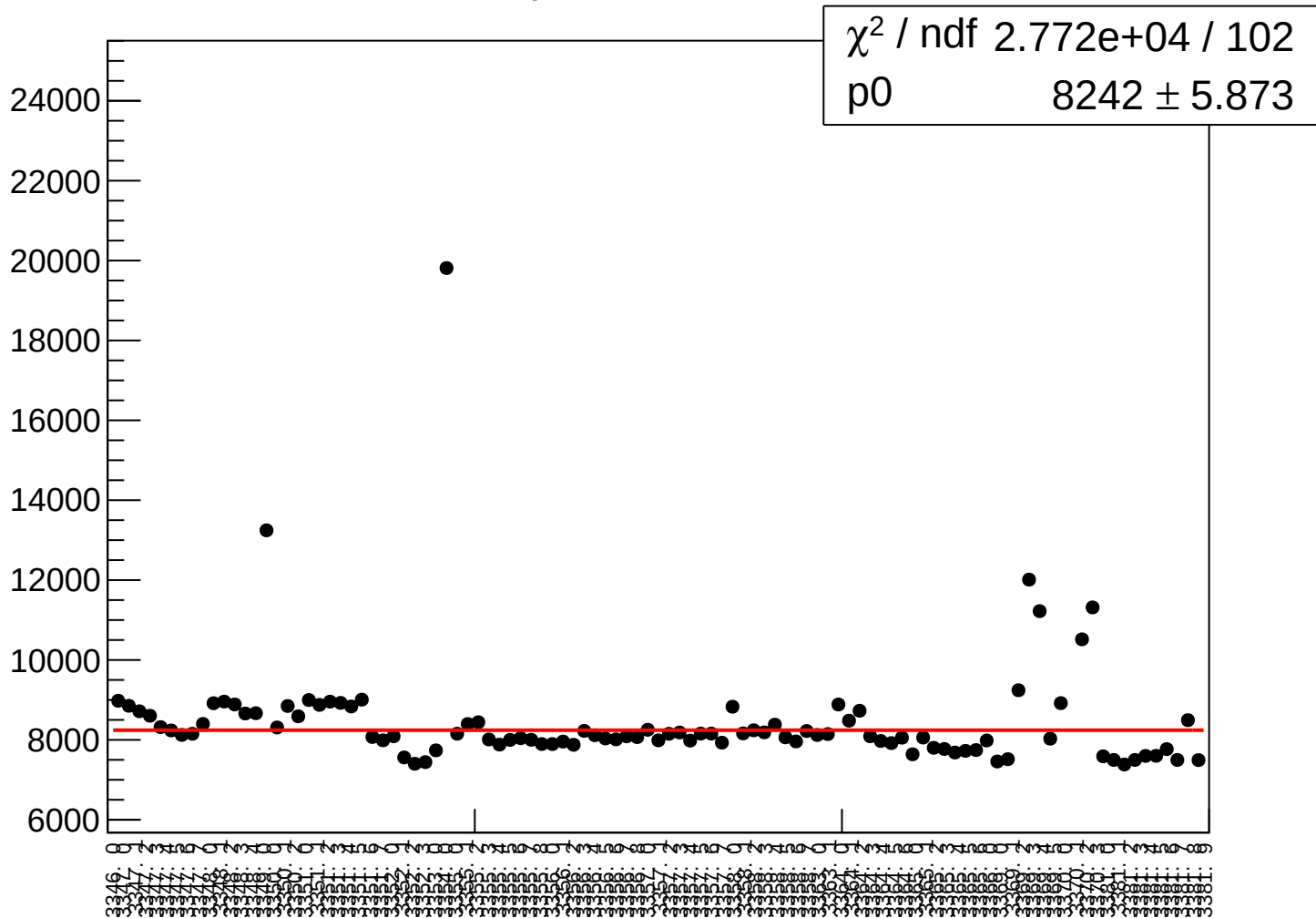
diff_bpm1X_mean vs run



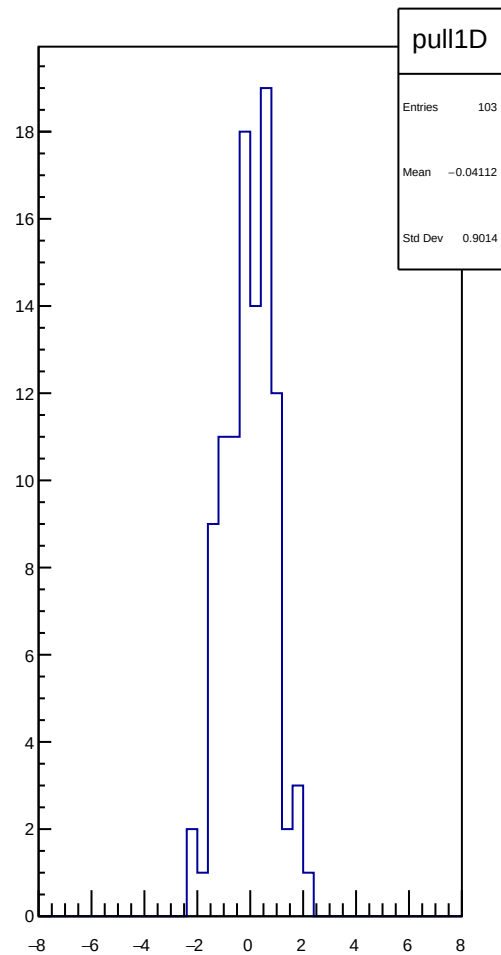
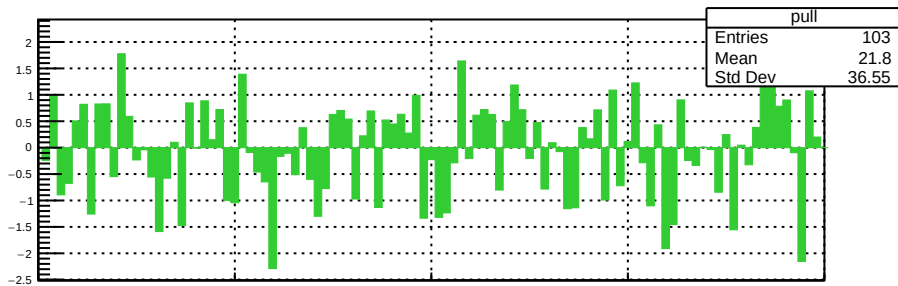
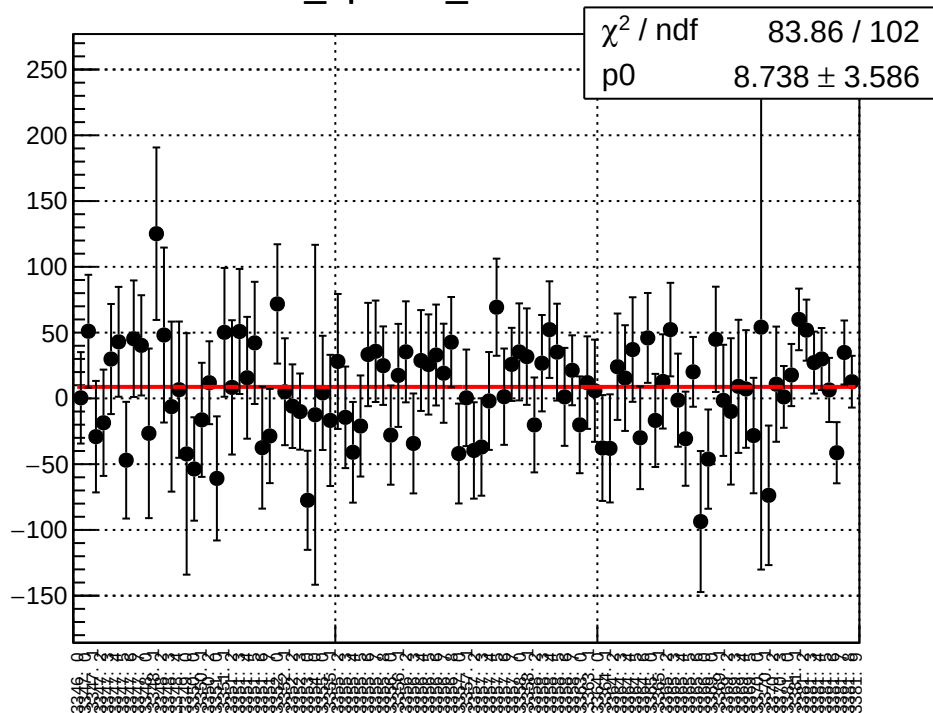
diff_bpm1X_mean vs run



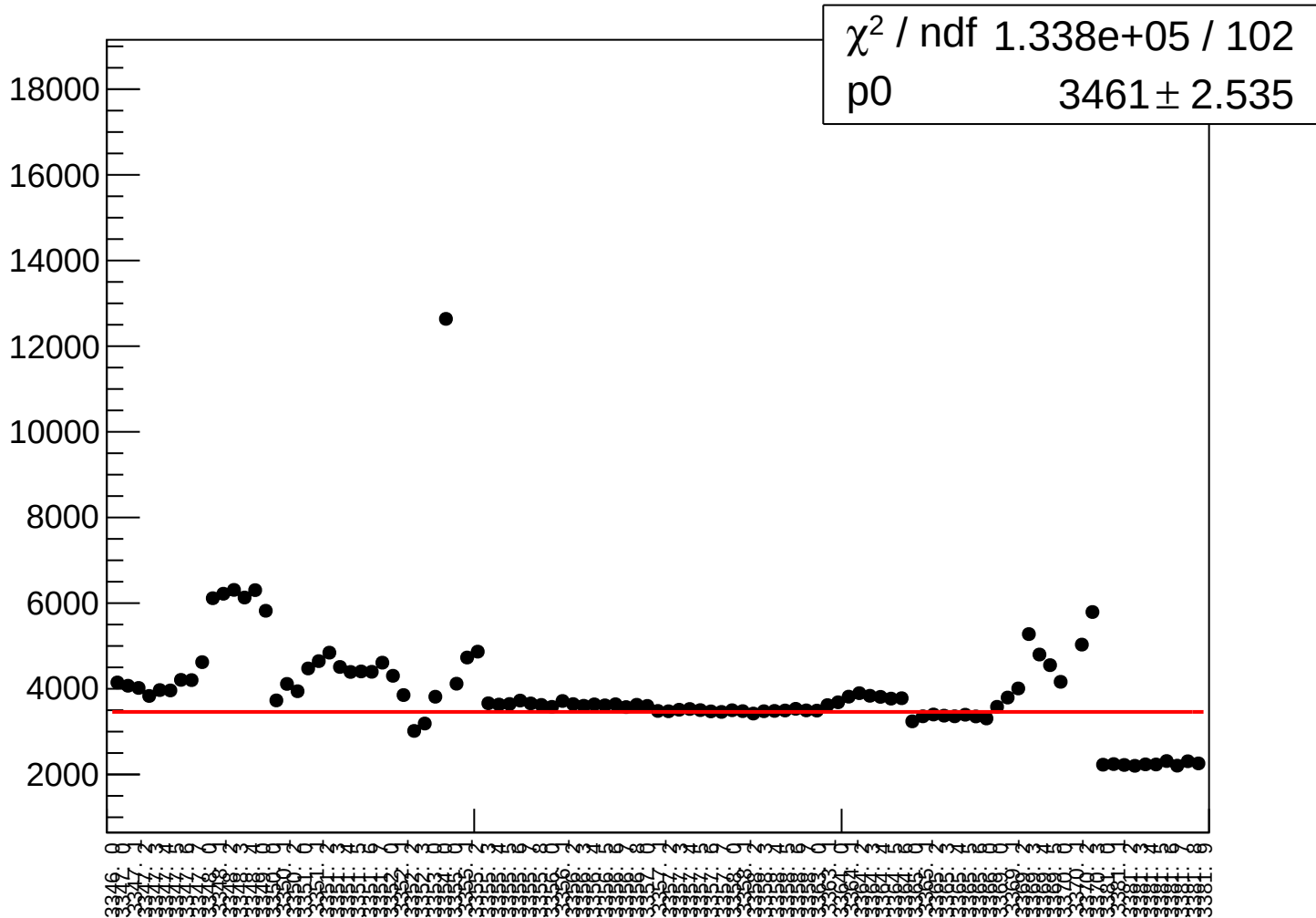
diff_bpm1X_rms vs run



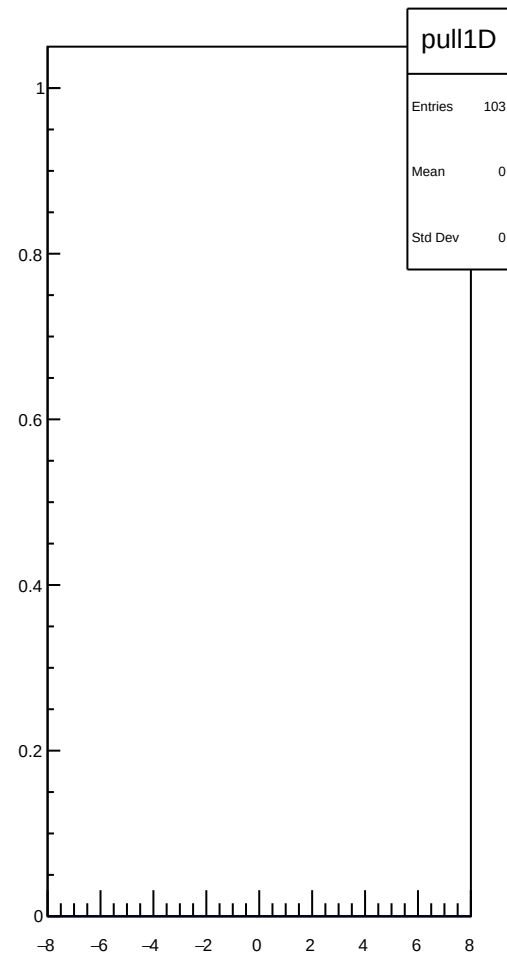
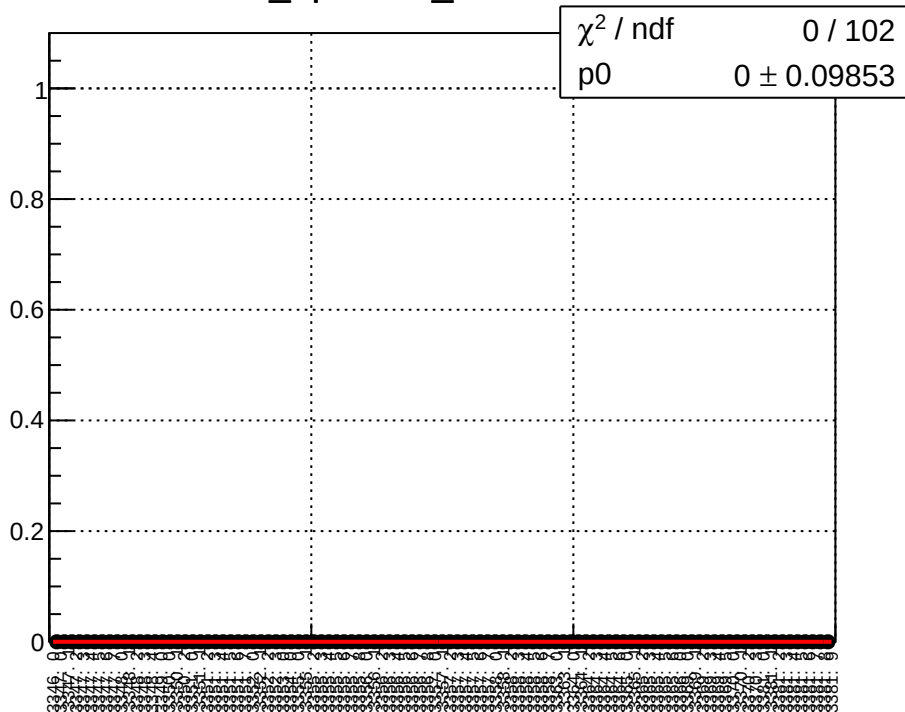
diff_bpm1Y_mean vs run



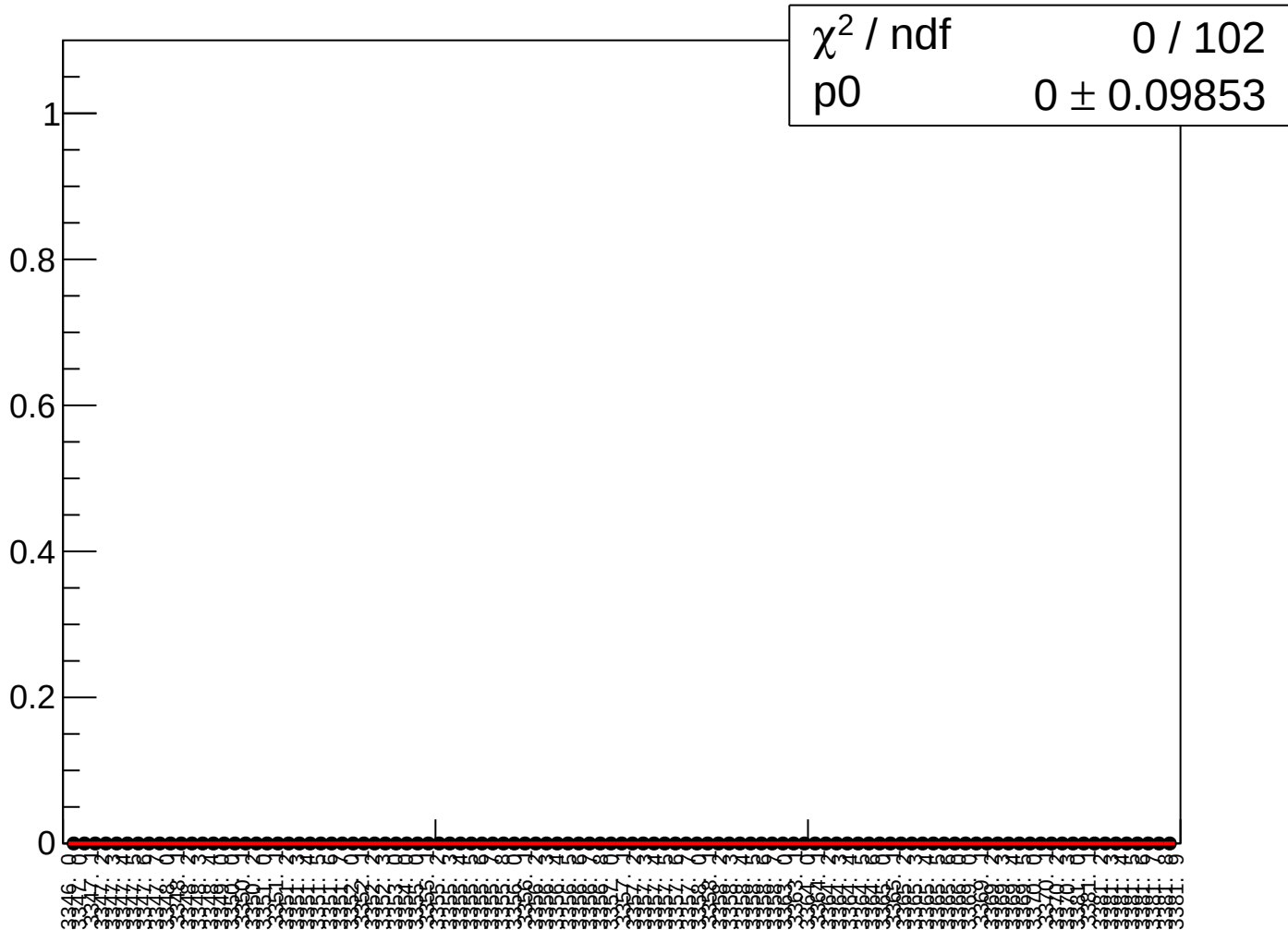
diff_bpm1Y_rms vs run



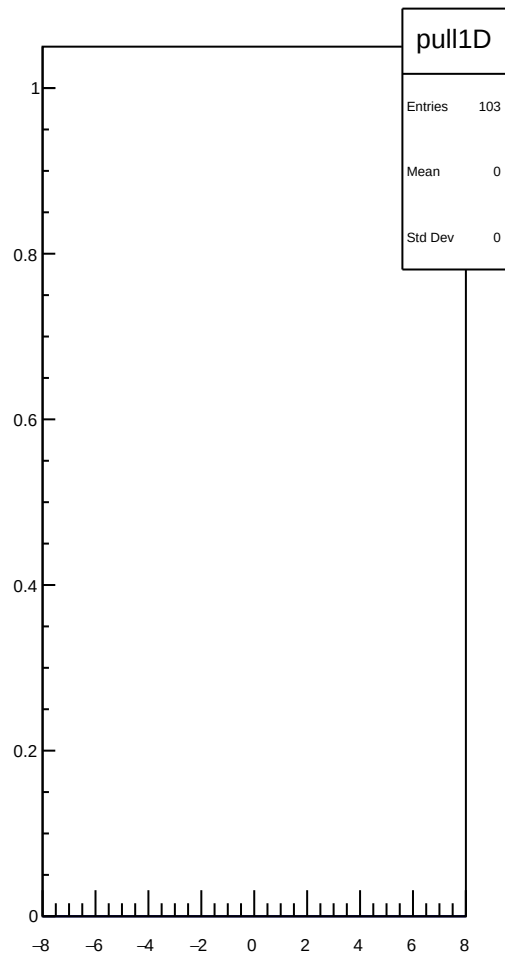
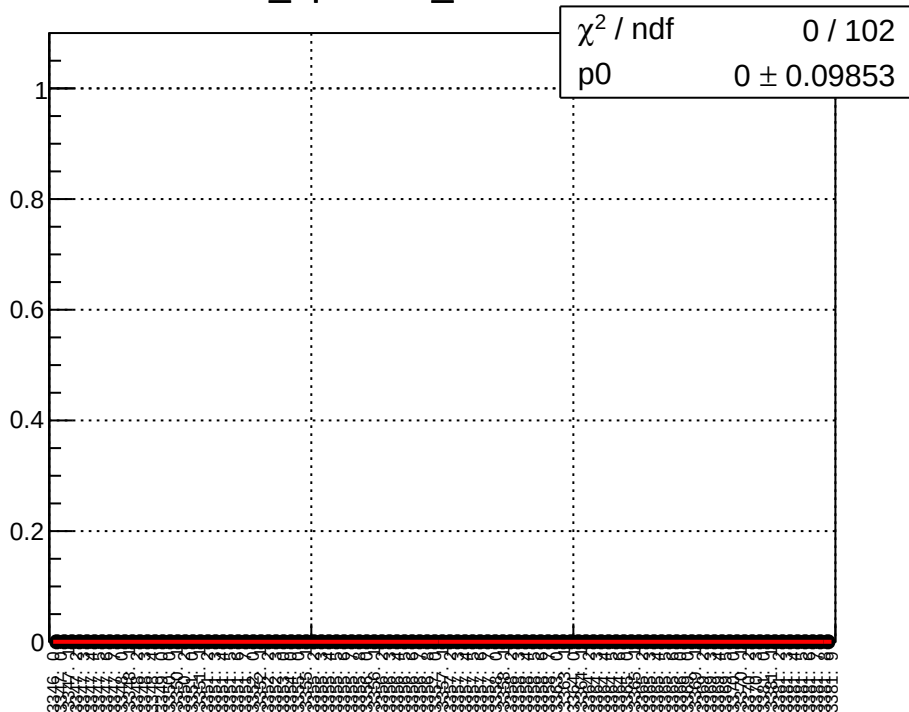
diff_bpm11X_mean vs run



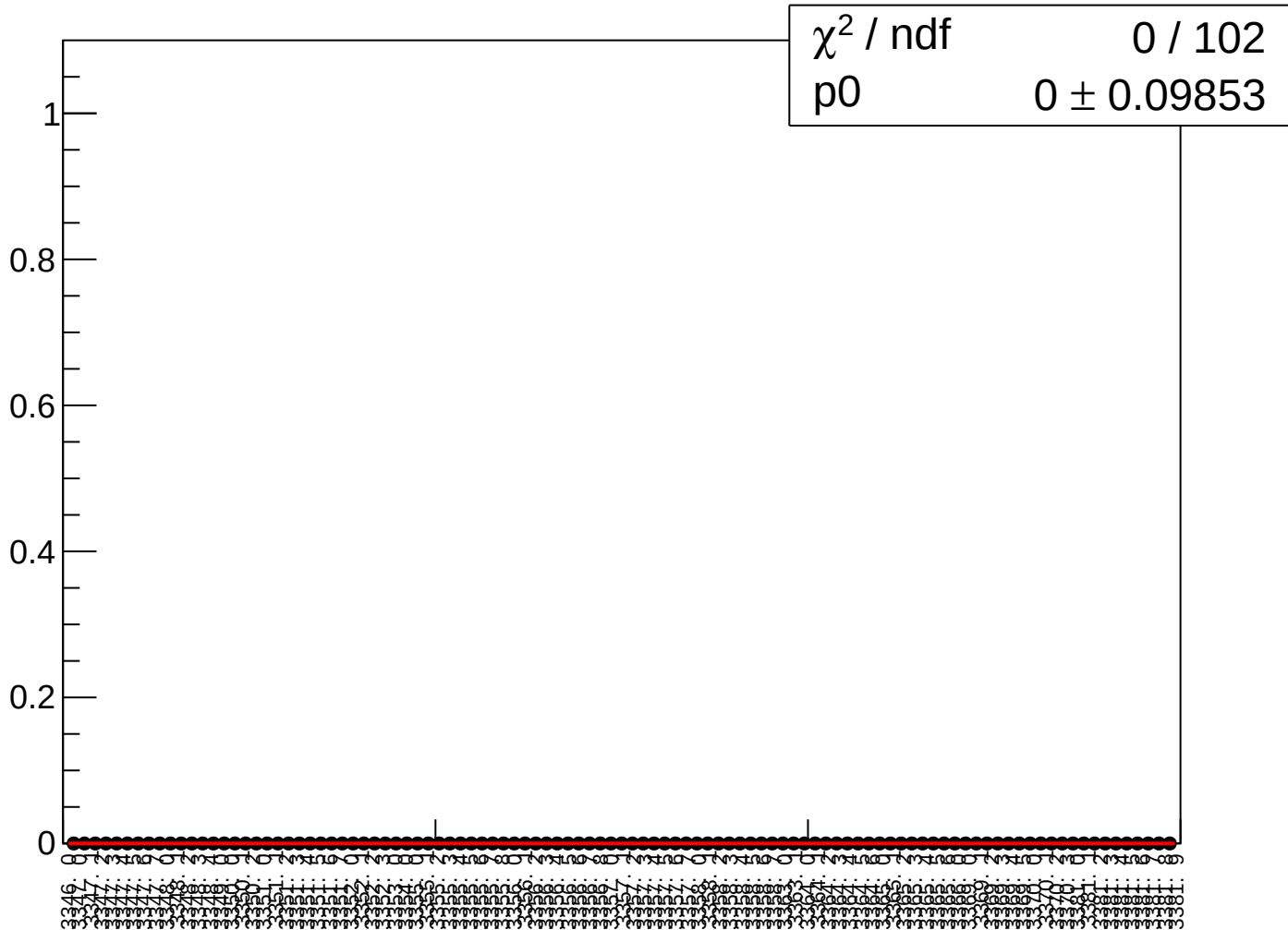
diff_bpm11X_rms vs run



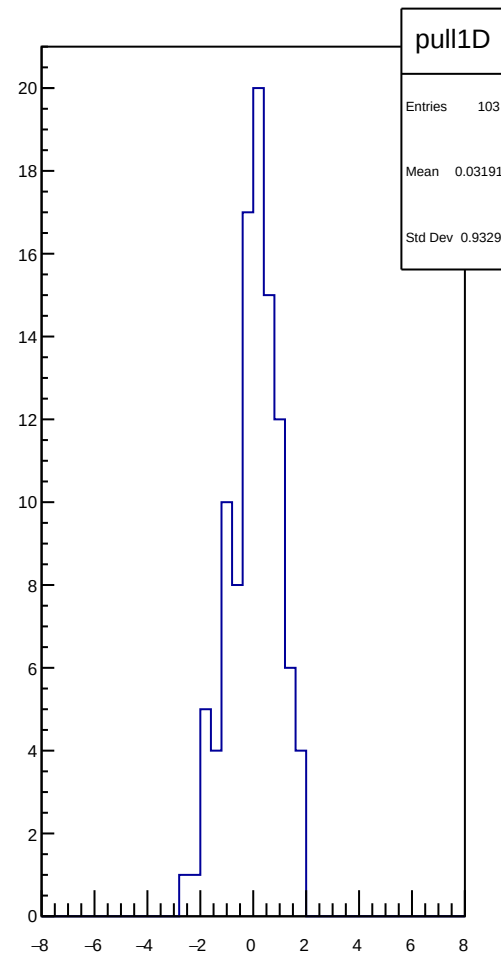
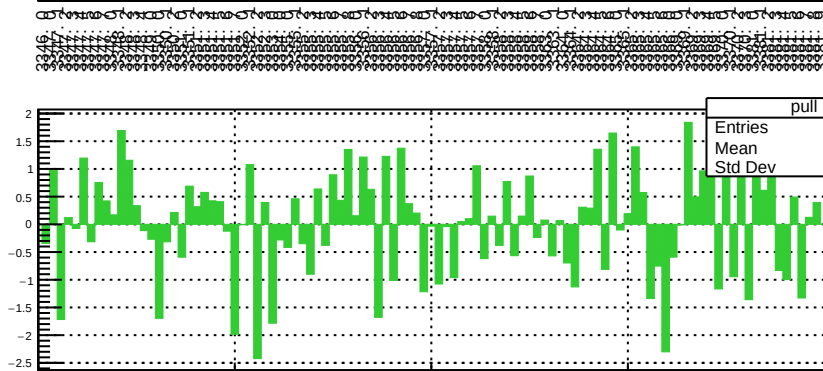
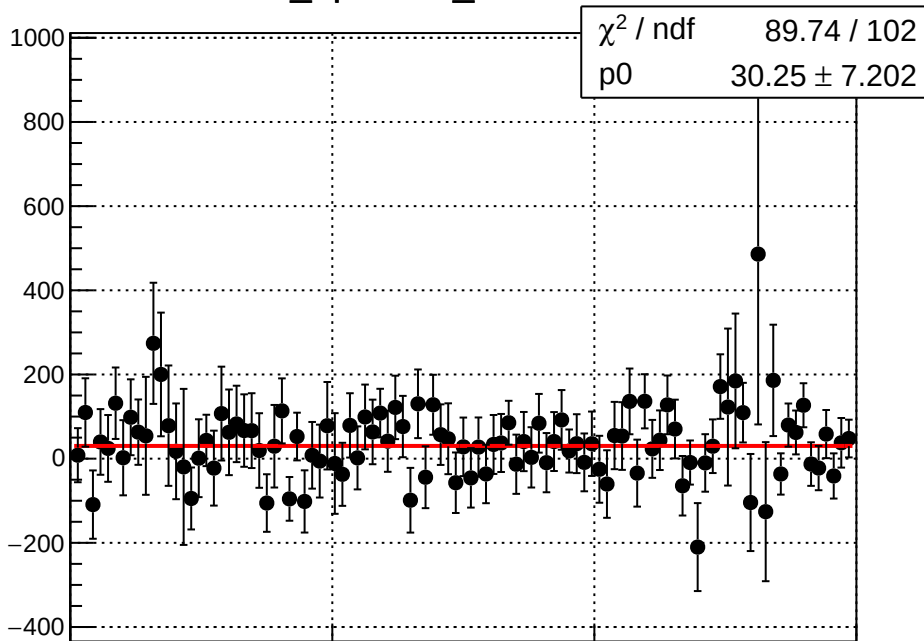
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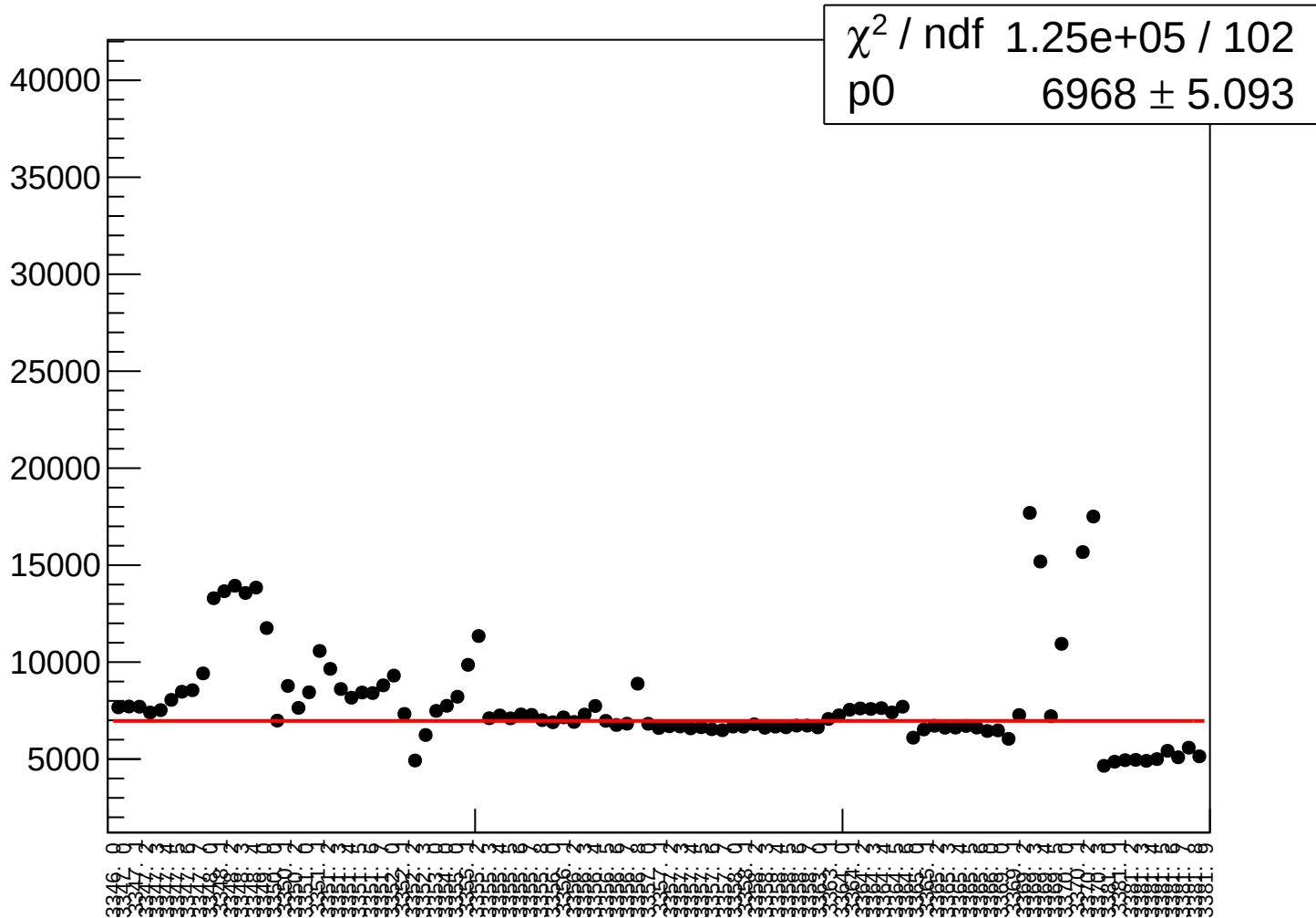
diff_bpm11Y_rms vs run



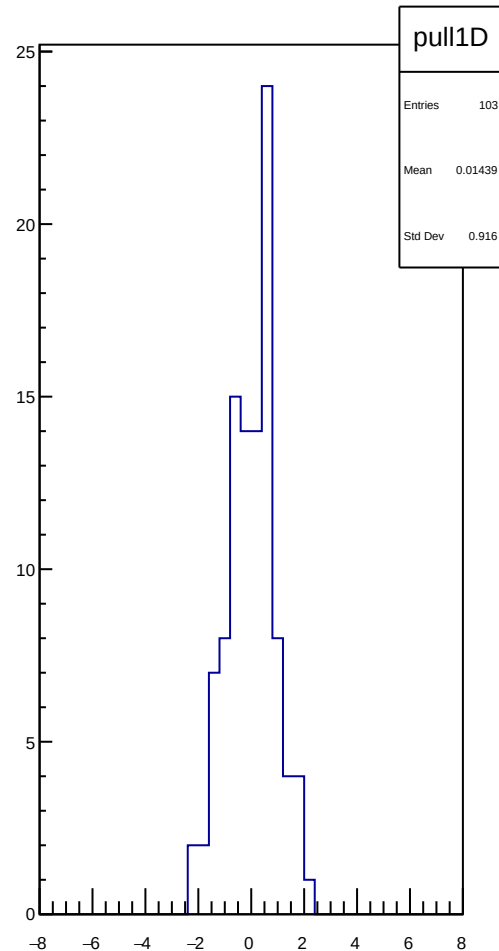
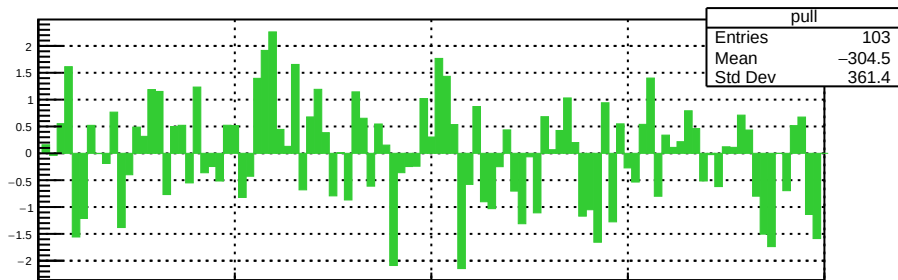
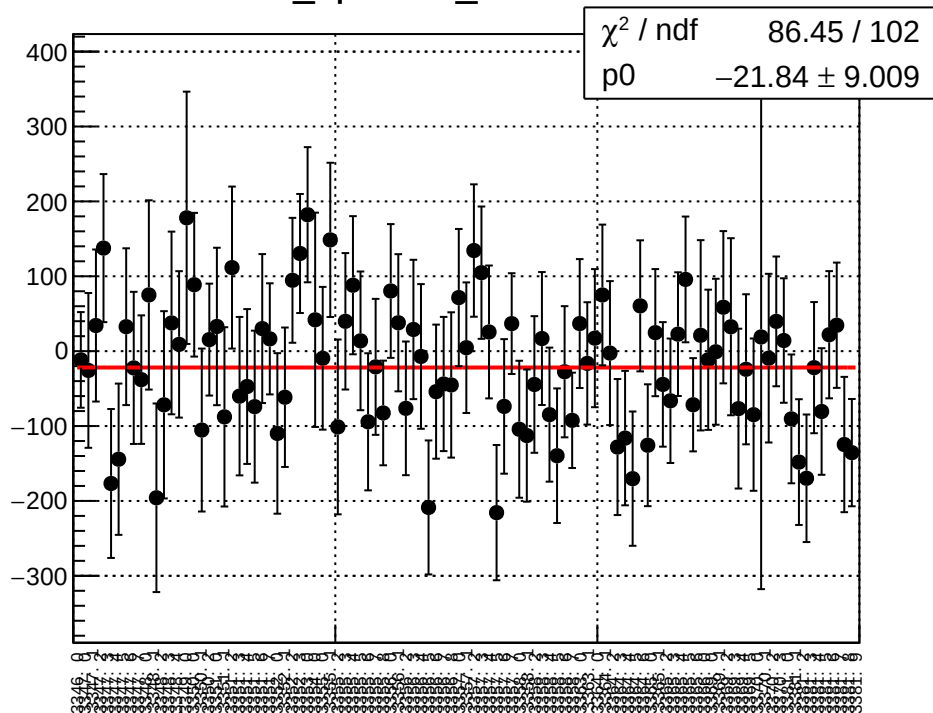
diff_bpm14X_mean vs run



diff_bpm14X_rms vs run

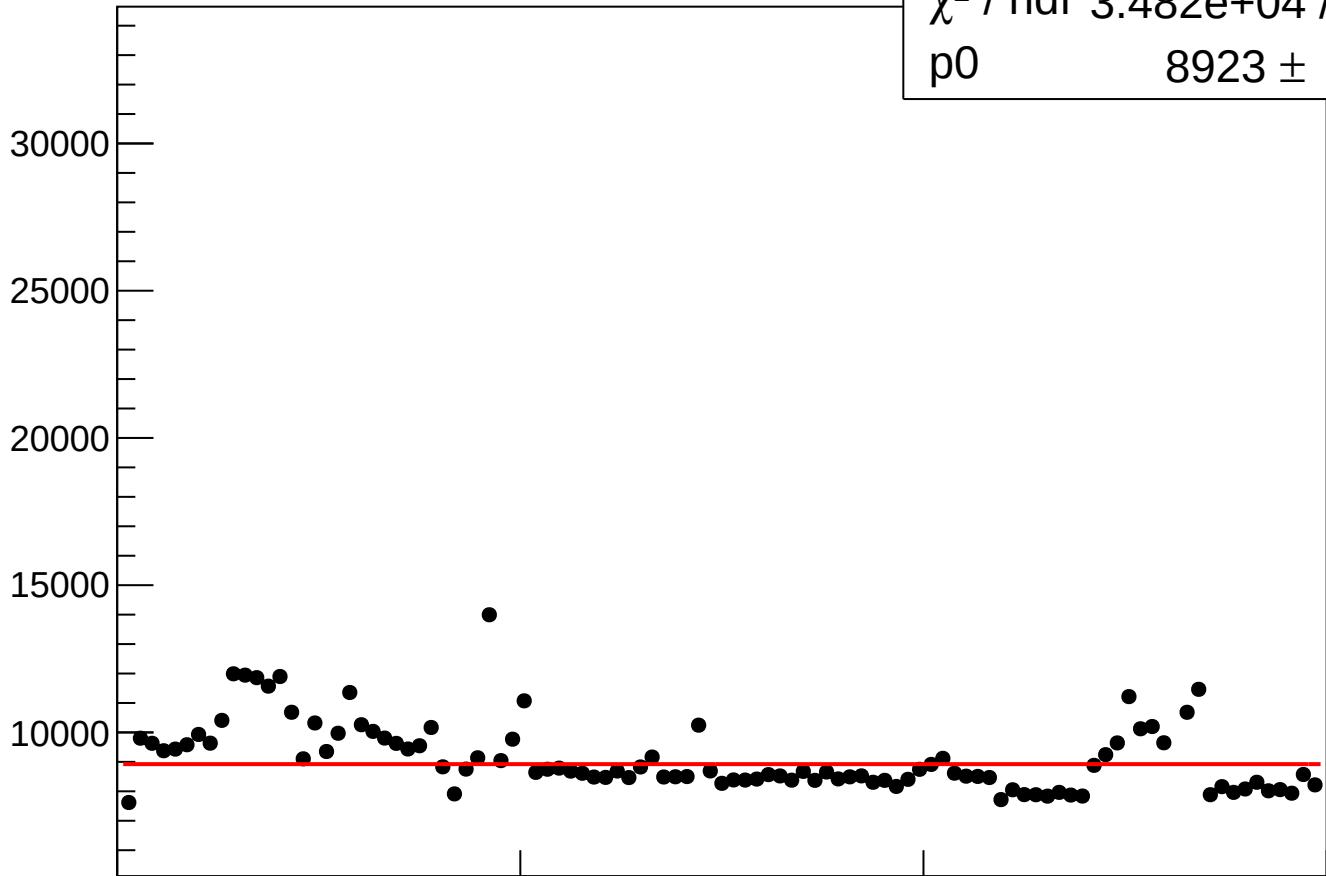


diff_bpm14Y_mean vs run

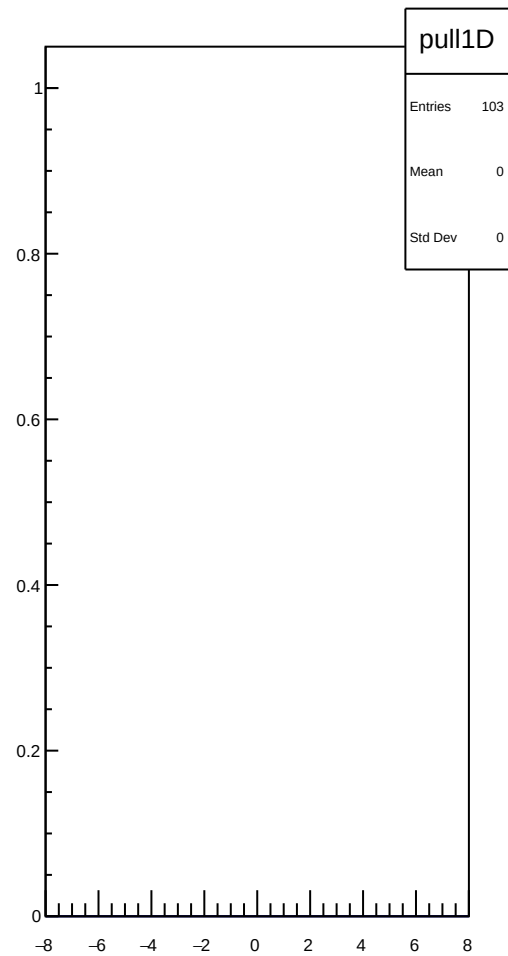
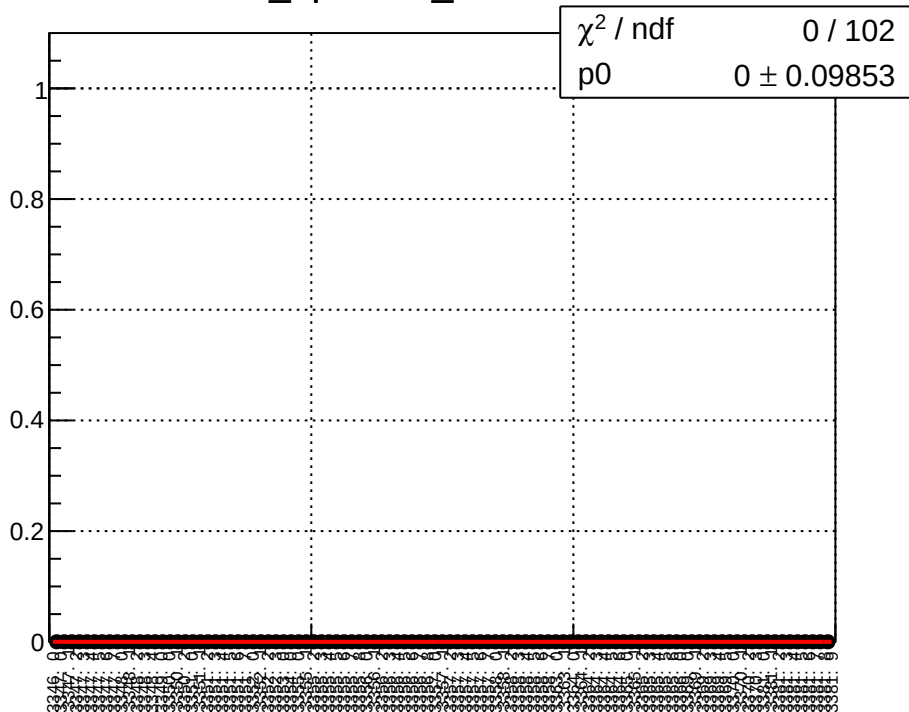


diff_bpm14Y_rms vs run

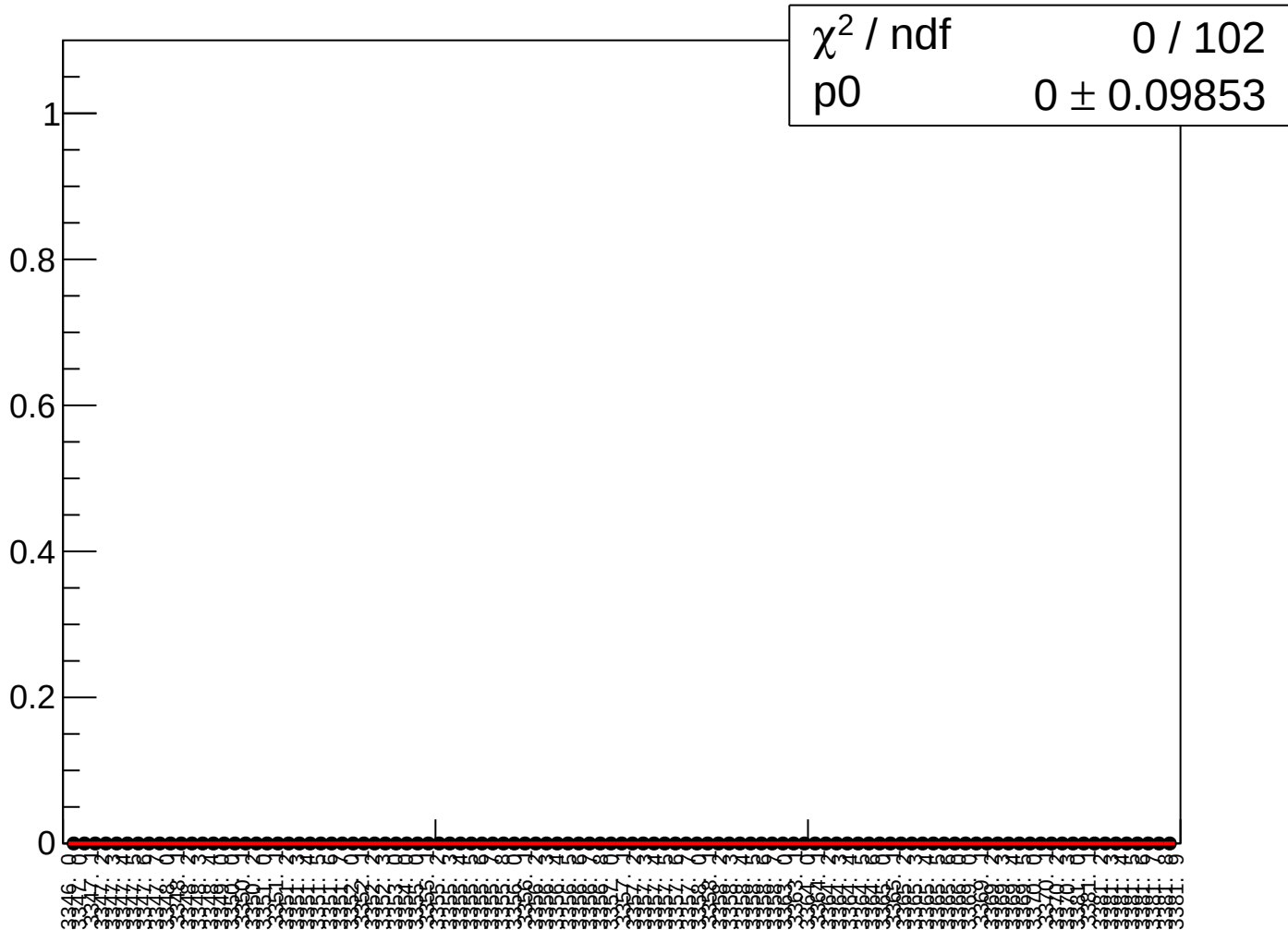
χ^2 / ndf 3.482e+04 / 102
p0 8923 $\pm$ 6.37



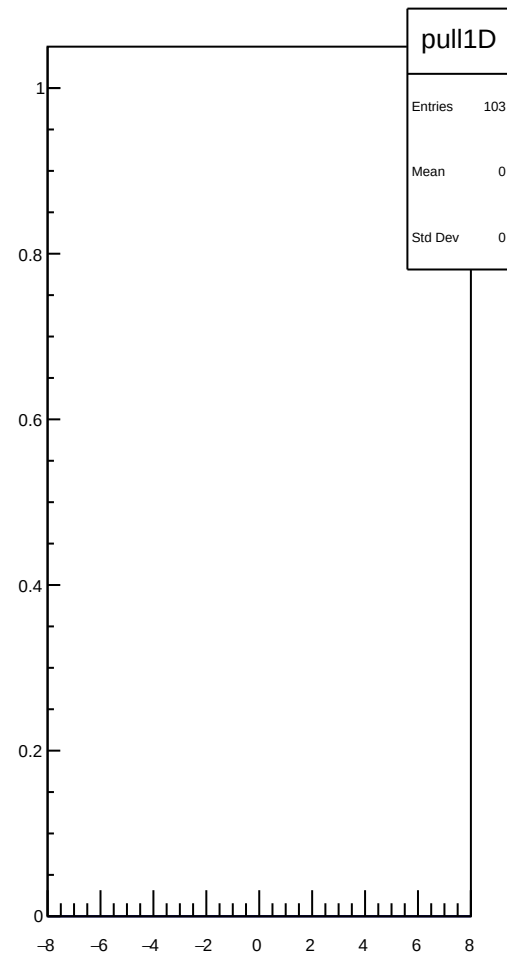
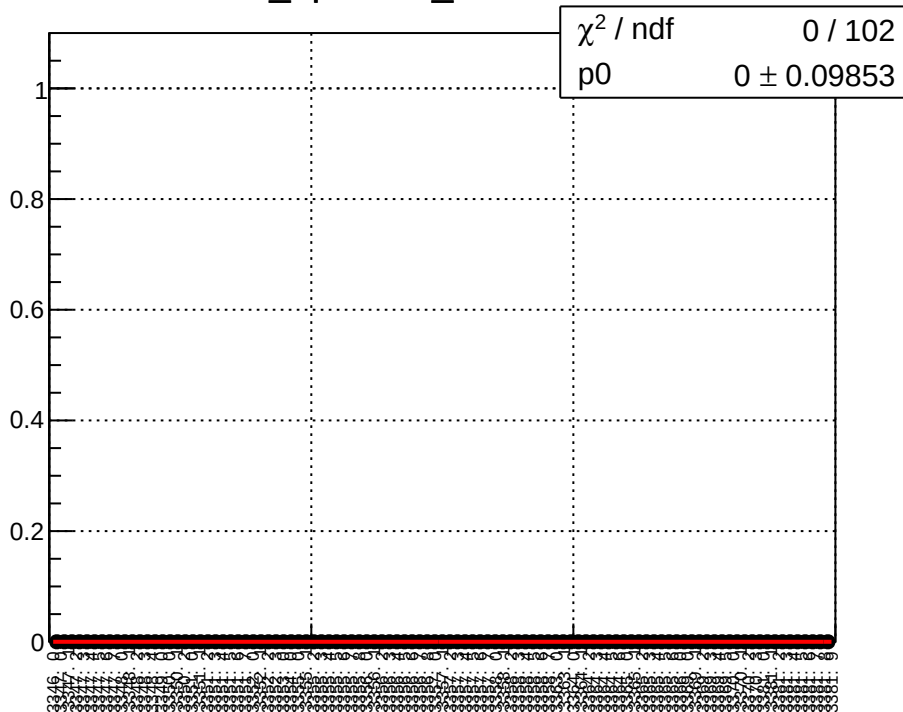
diff_bpm16X_mean vs run



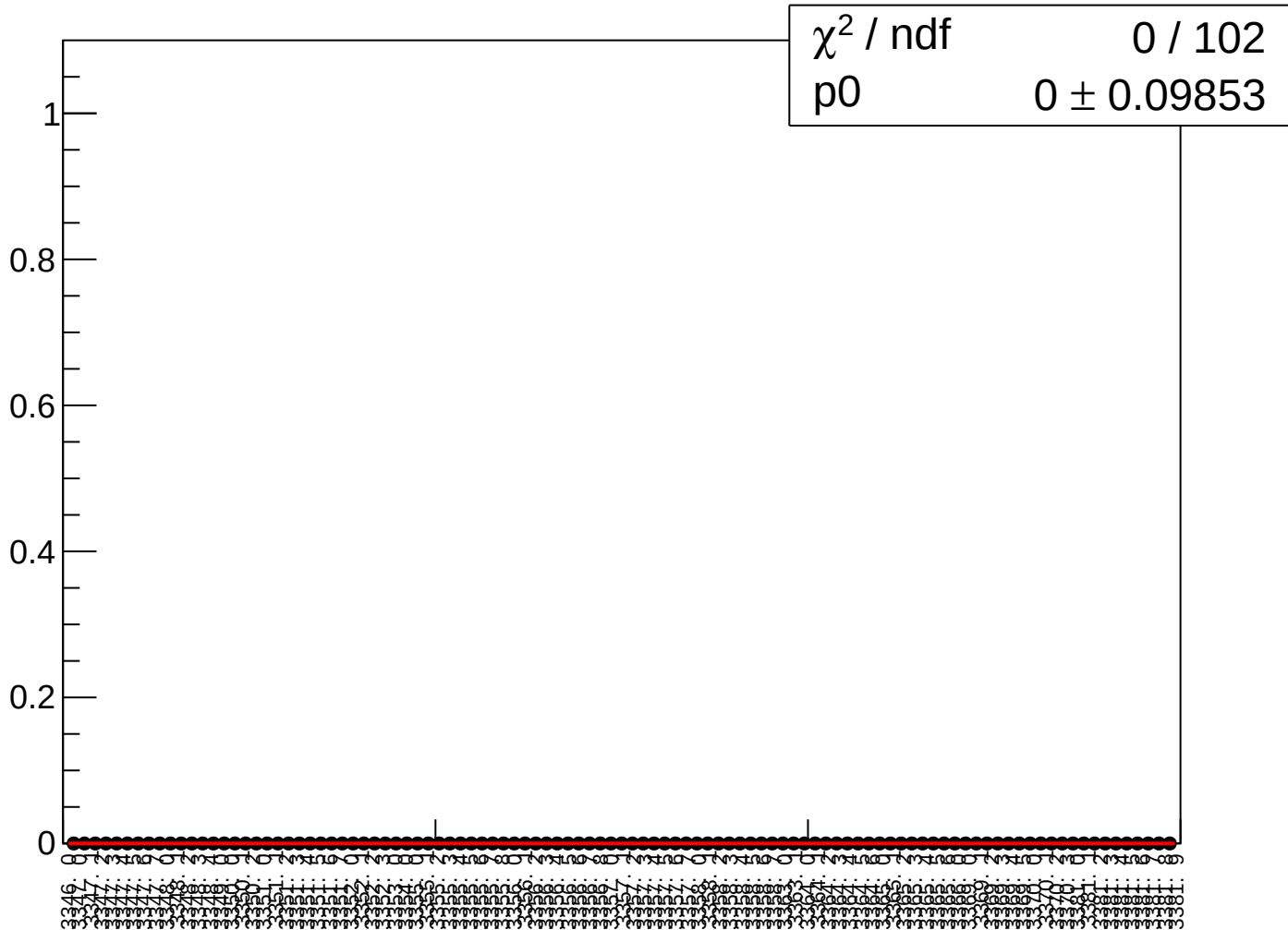
diff_bpm16X_rms vs run



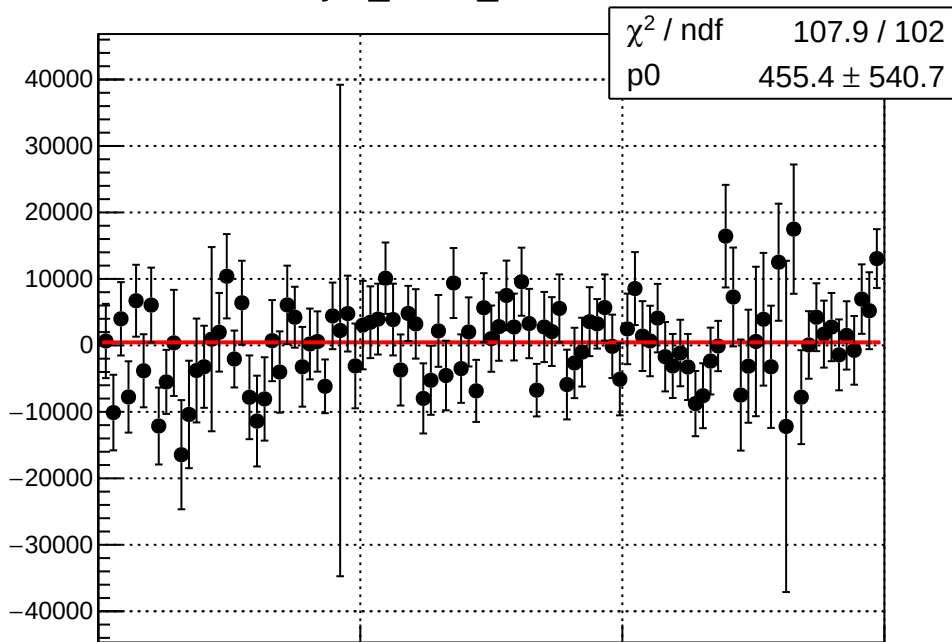
diff_bpm16Y_mean vs run



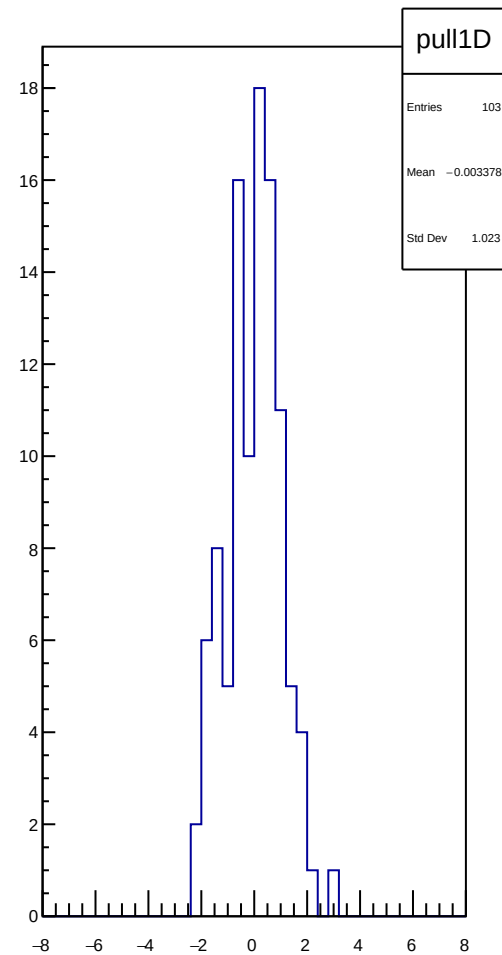
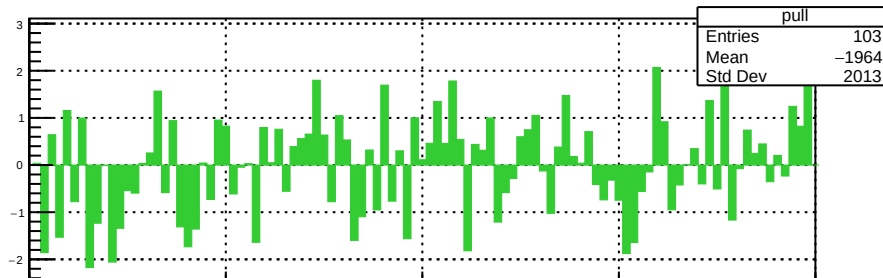
diff_bpm16Y_rms vs run



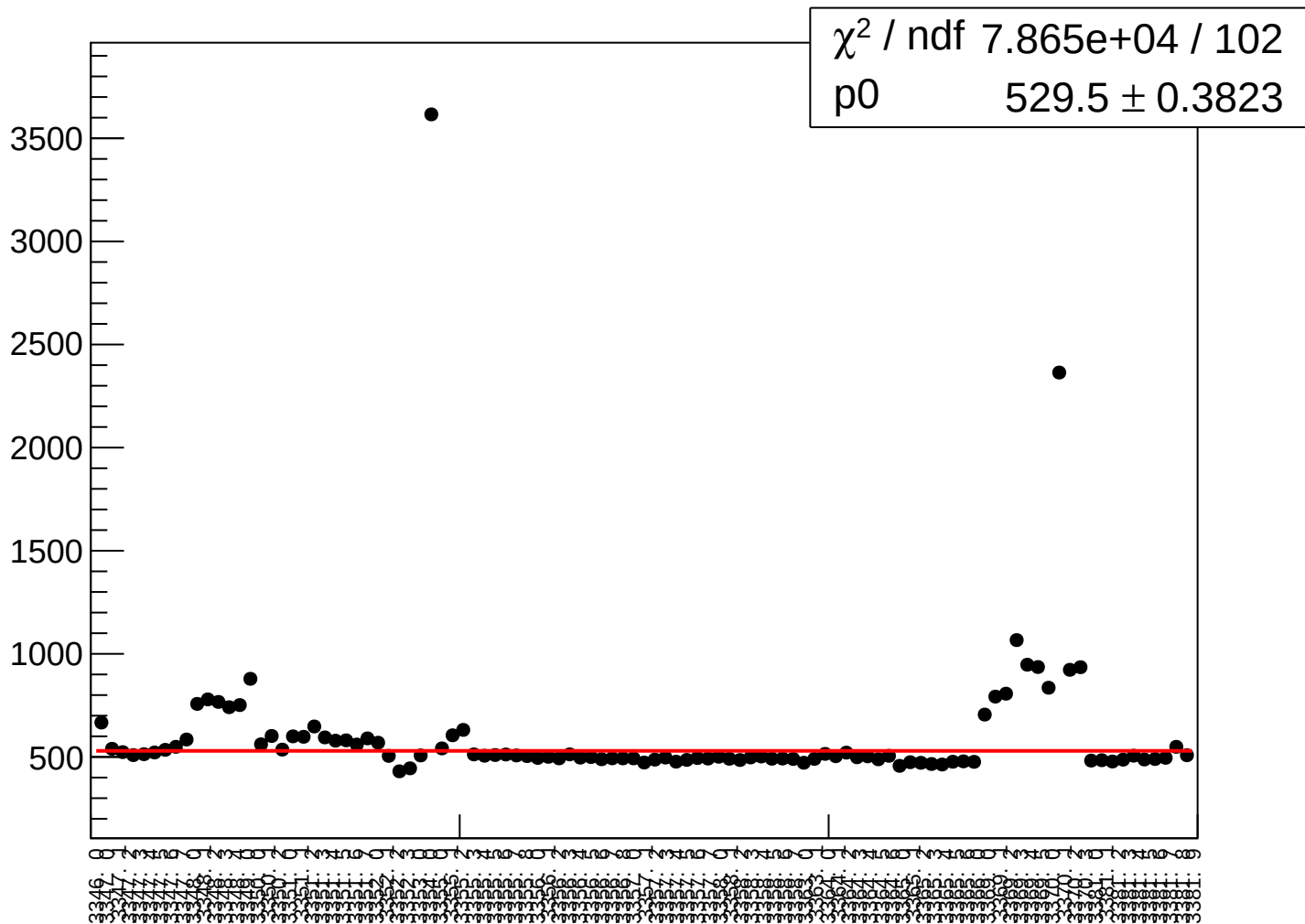
asym_sam1_mean vs run



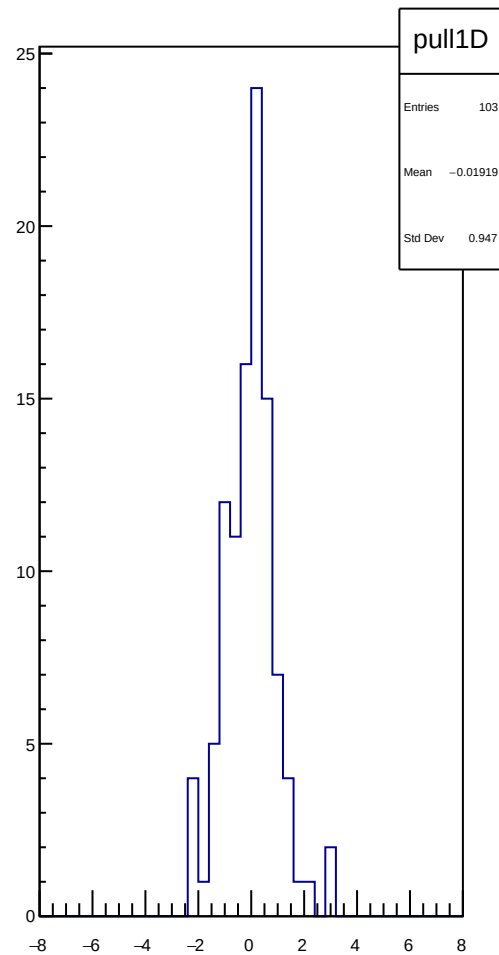
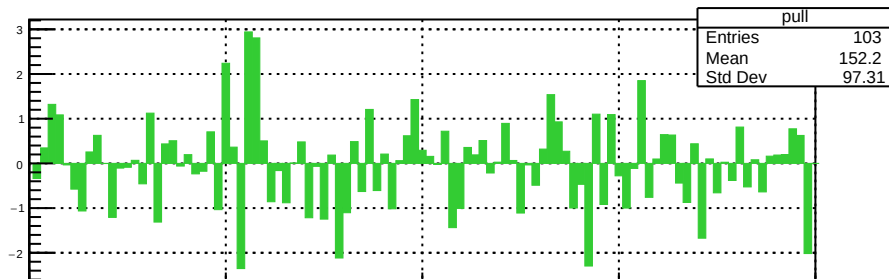
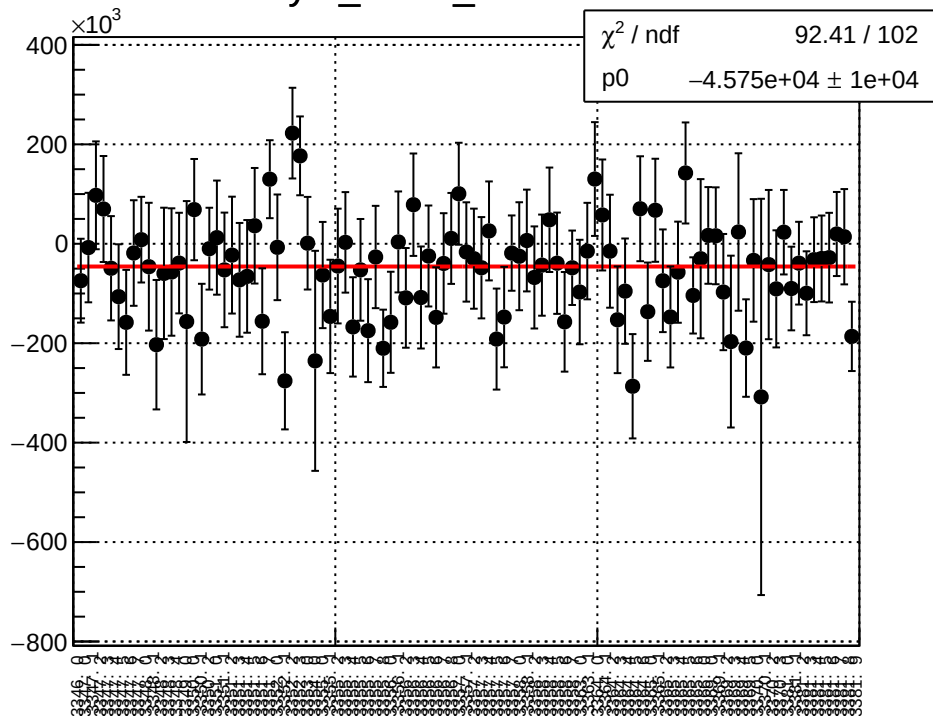
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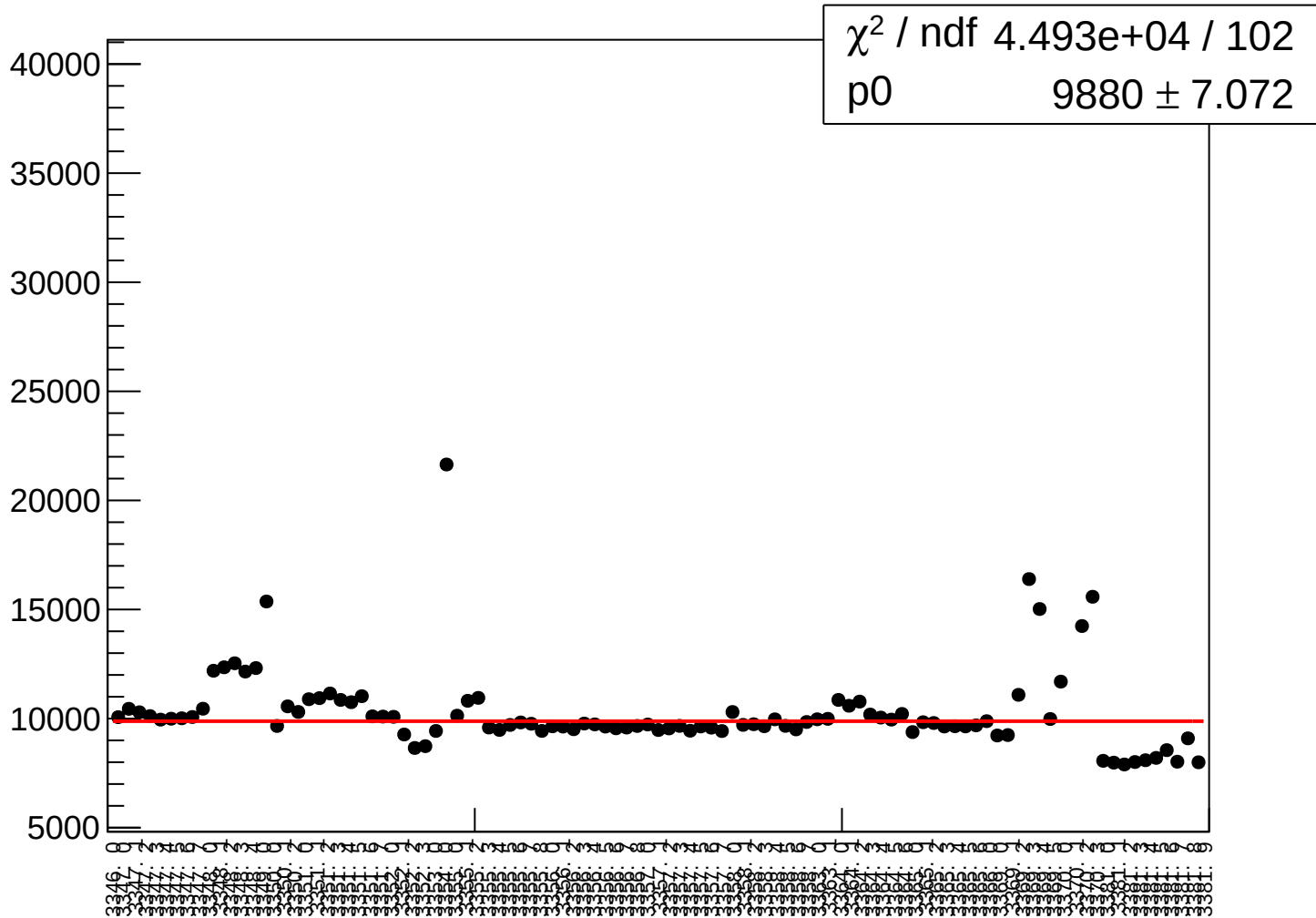
asym_sam1_rms vs run



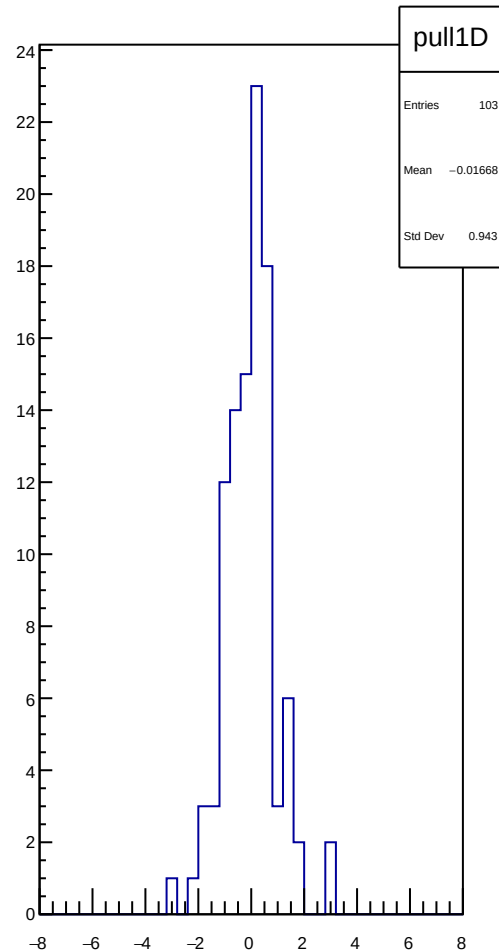
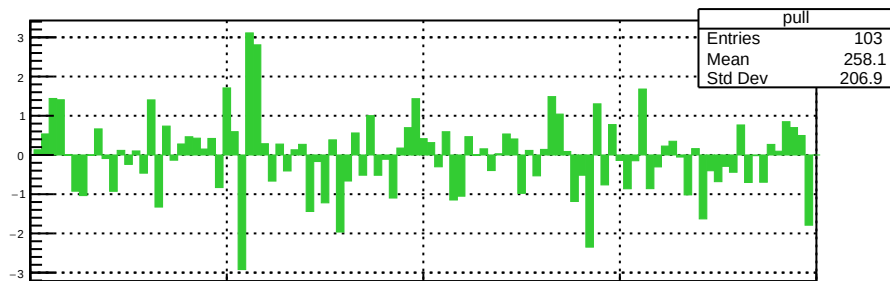
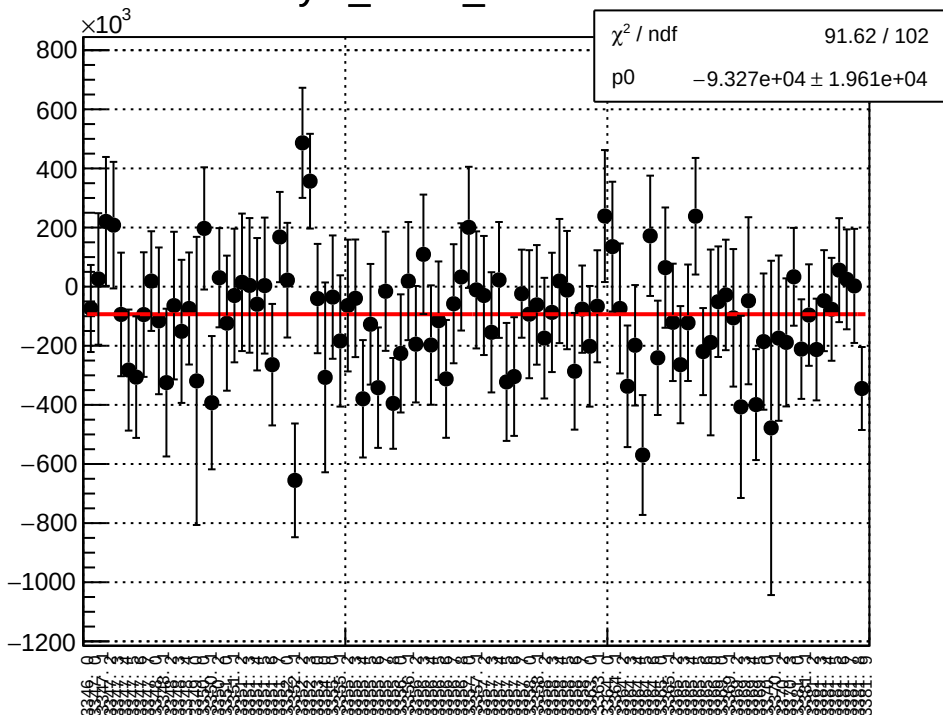
asym_sam2_mean vs run



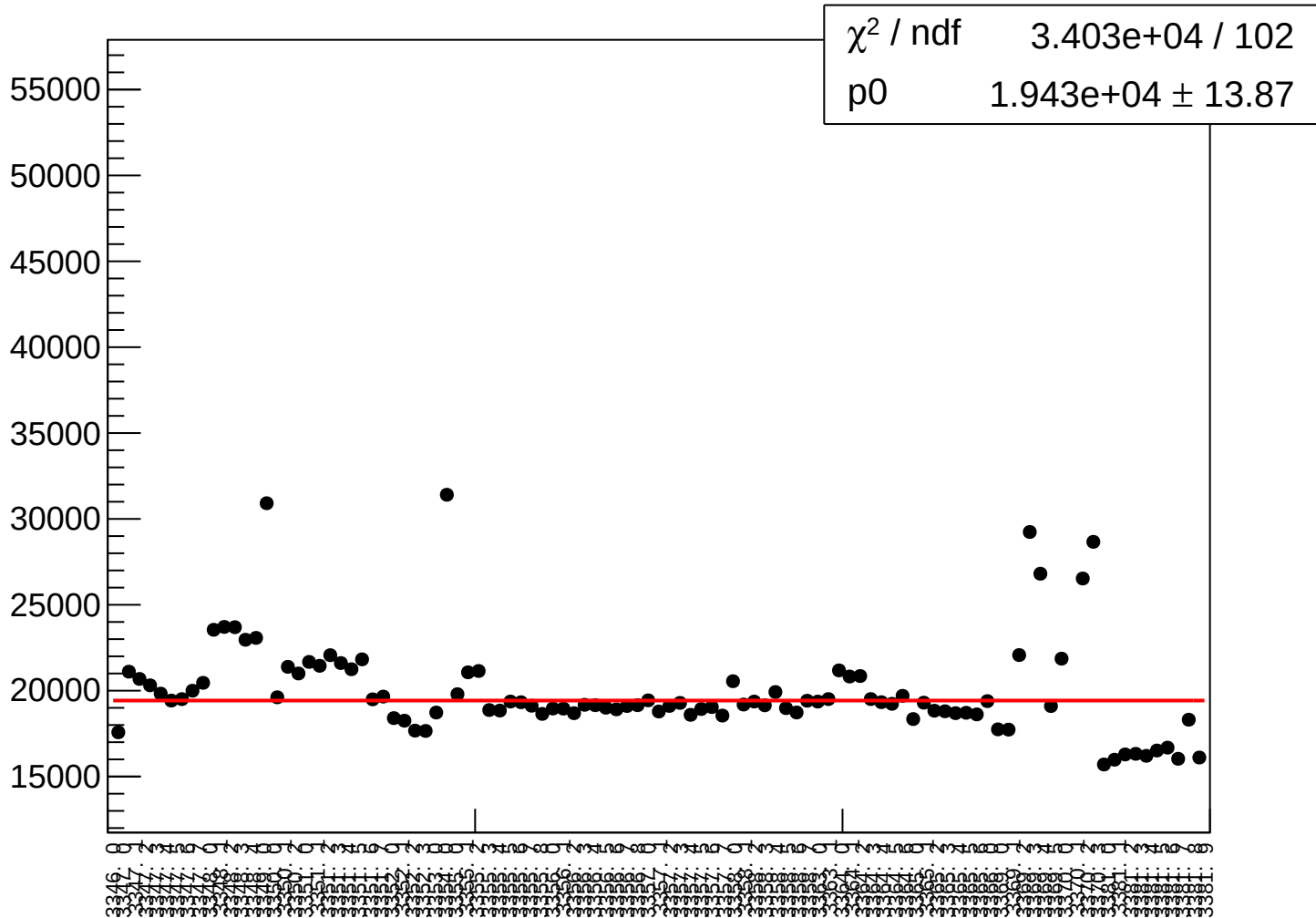
asym_sam2_rms vs run



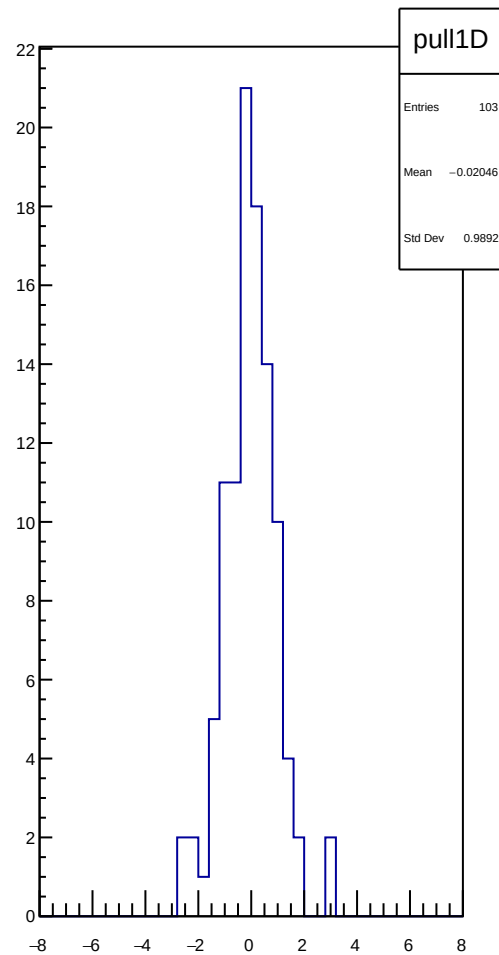
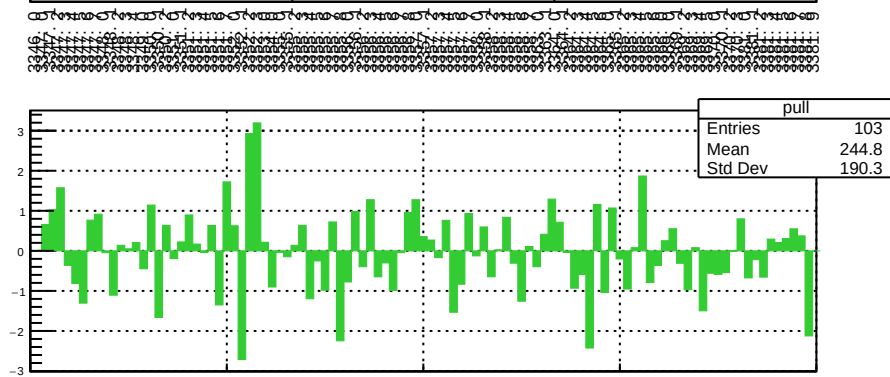
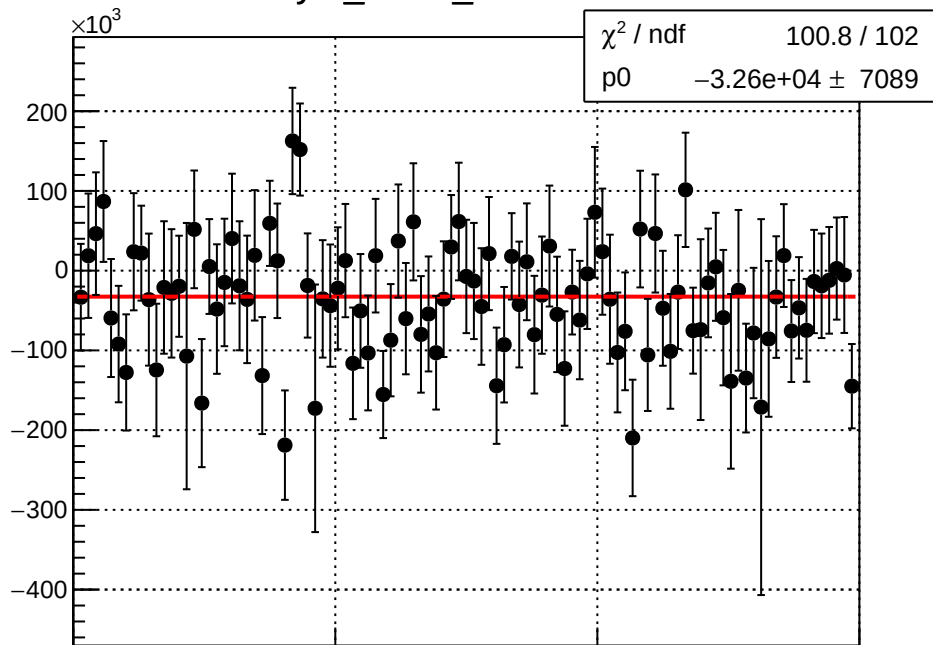
asym_sam3_mean vs run



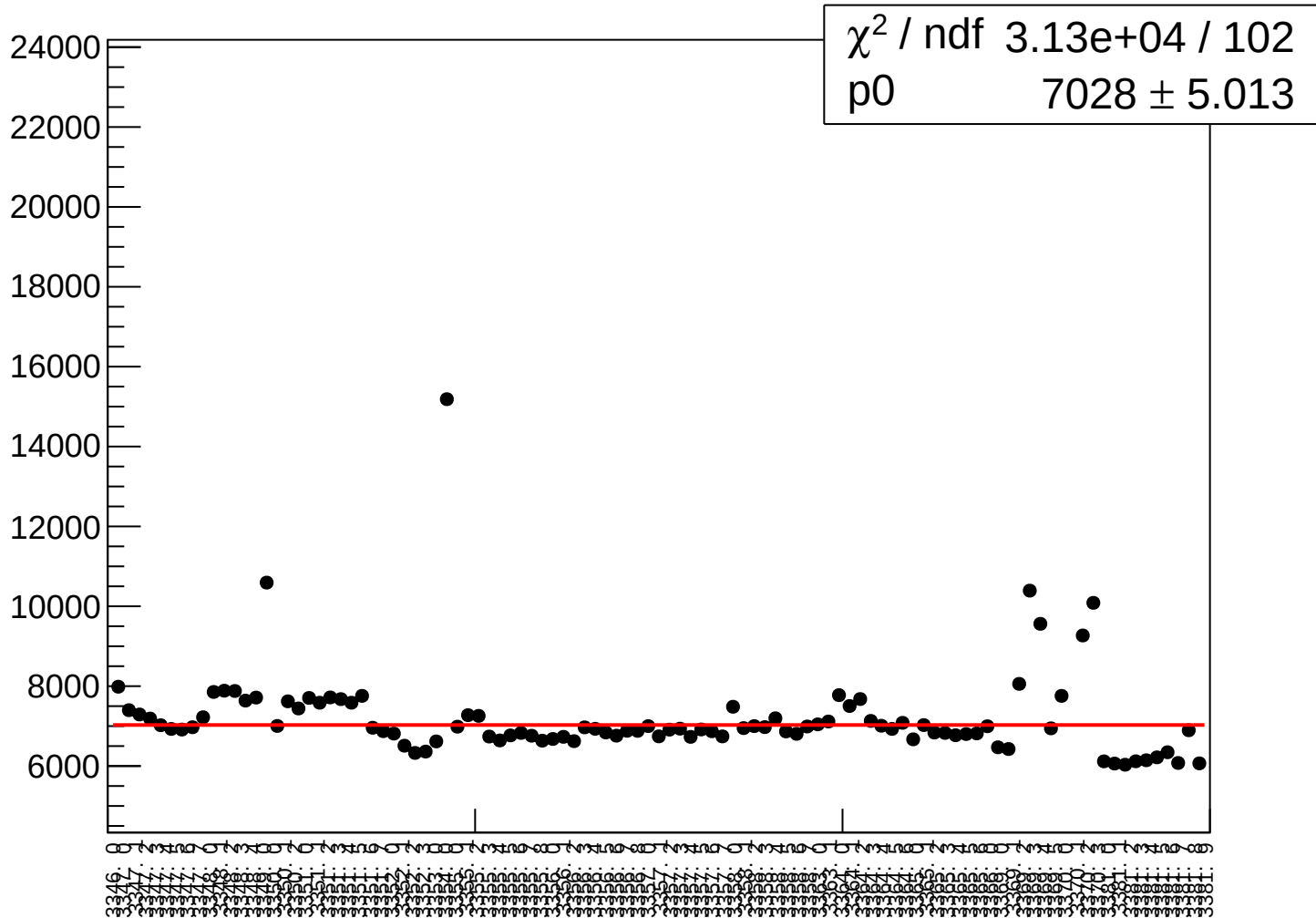
asym_sam3_rms vs run



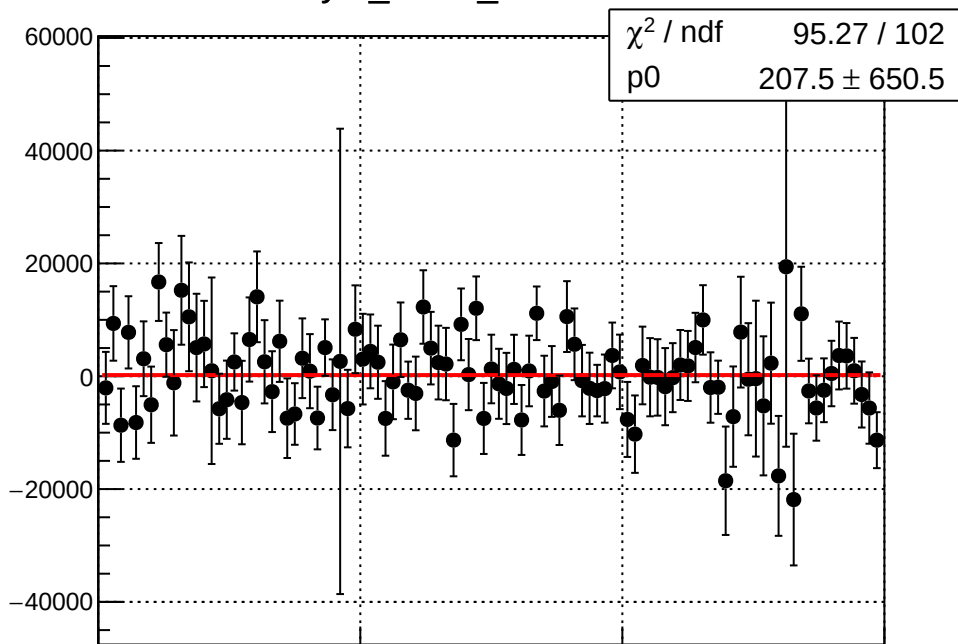
asym_sam4_mean vs run



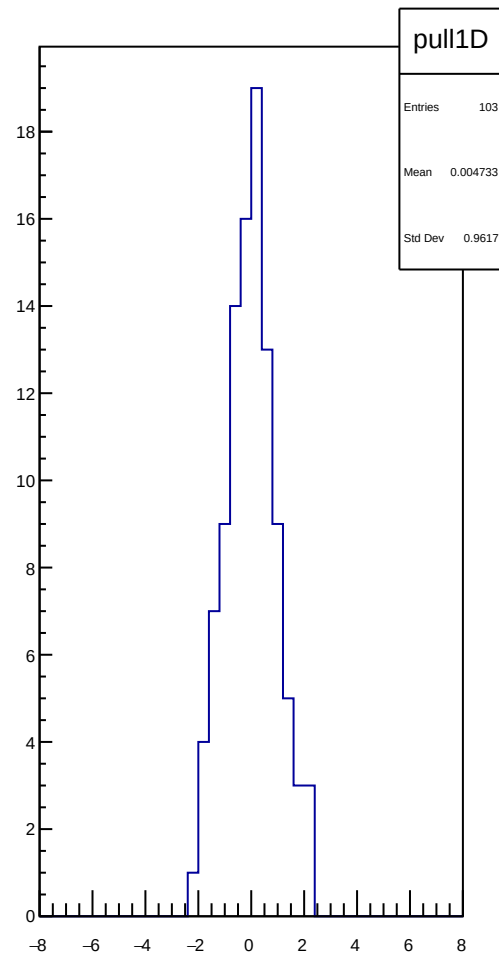
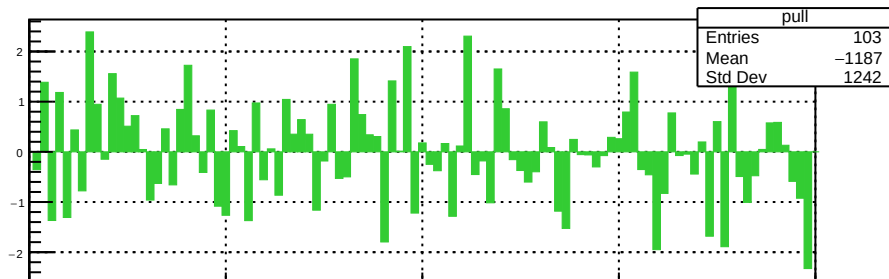
asym_sam4_rms vs run



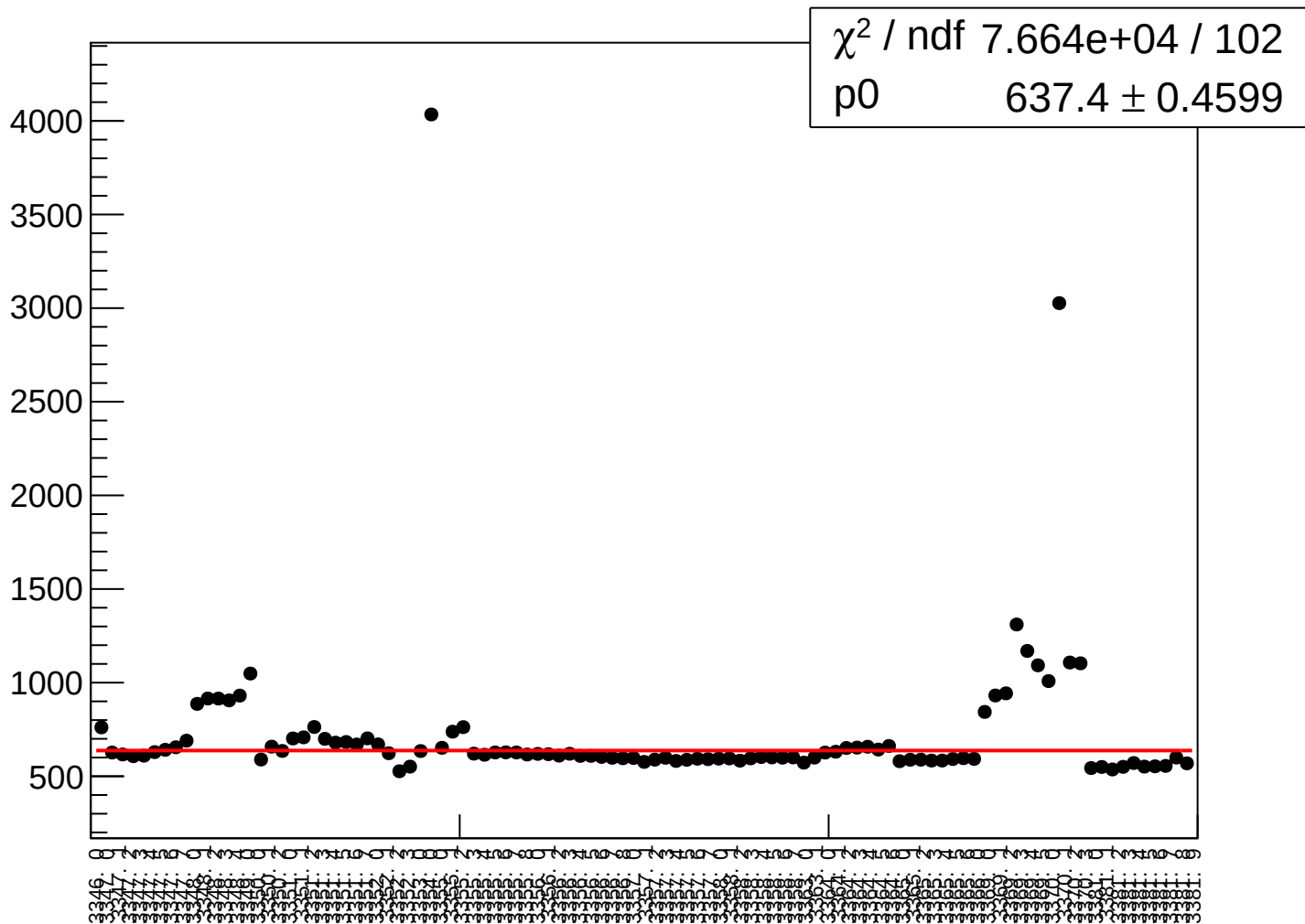
asym_sam5_mean vs run



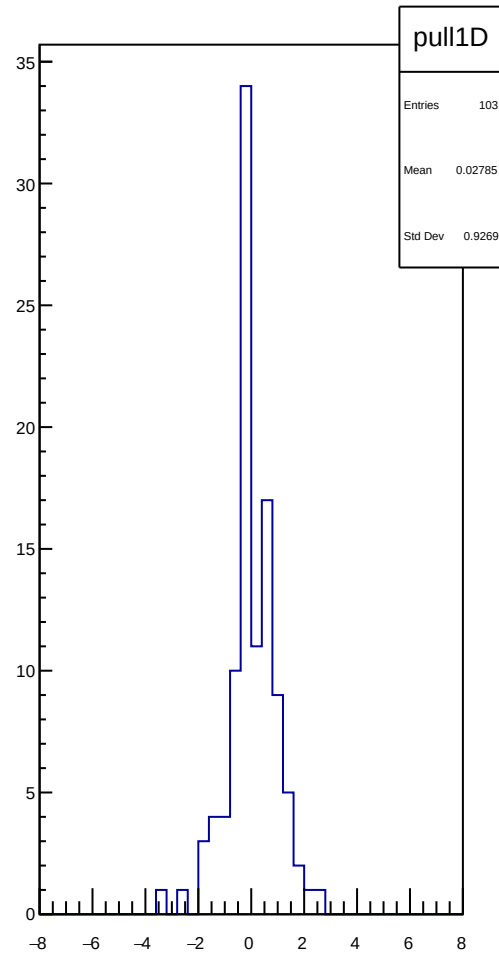
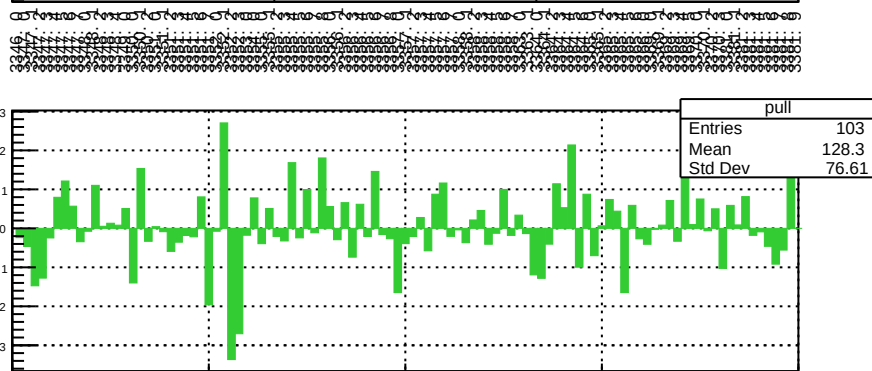
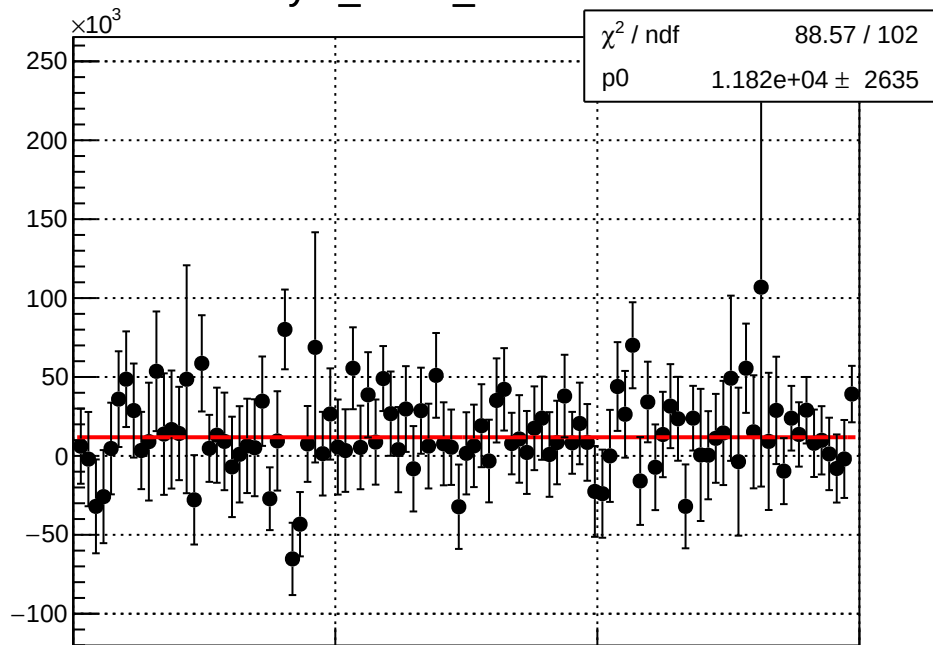
asym_sam5_mean vs run



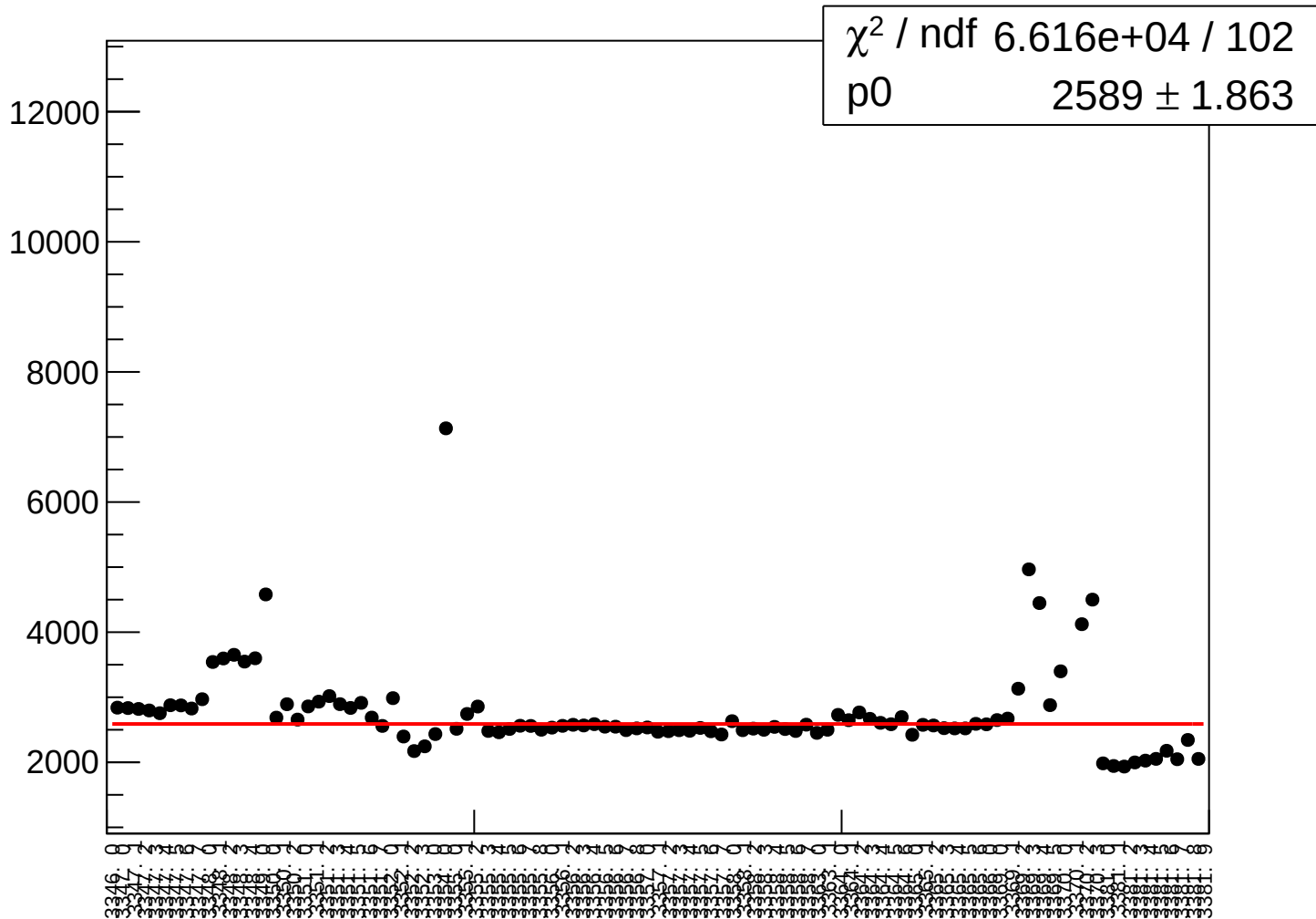
asym_sam5_rms vs run



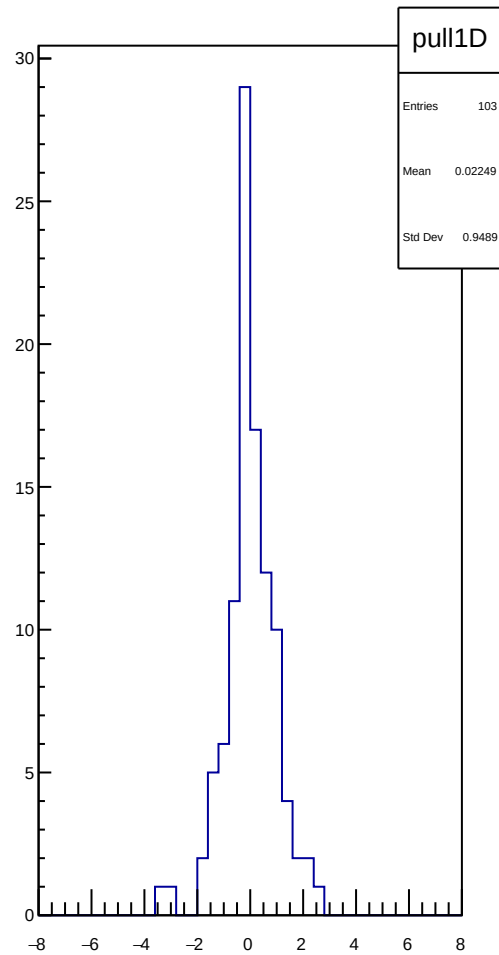
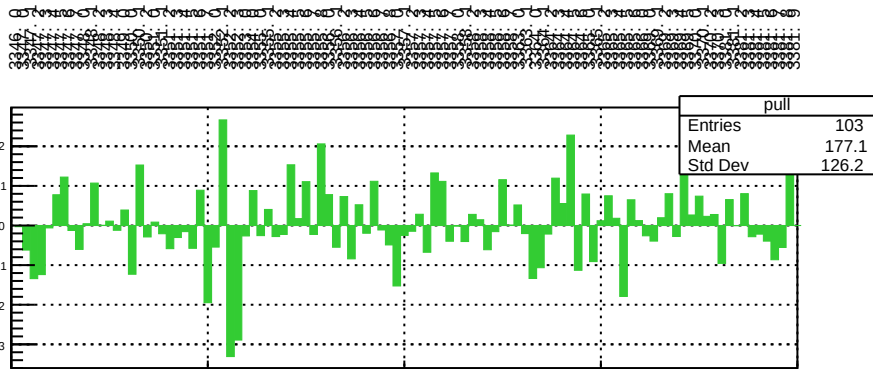
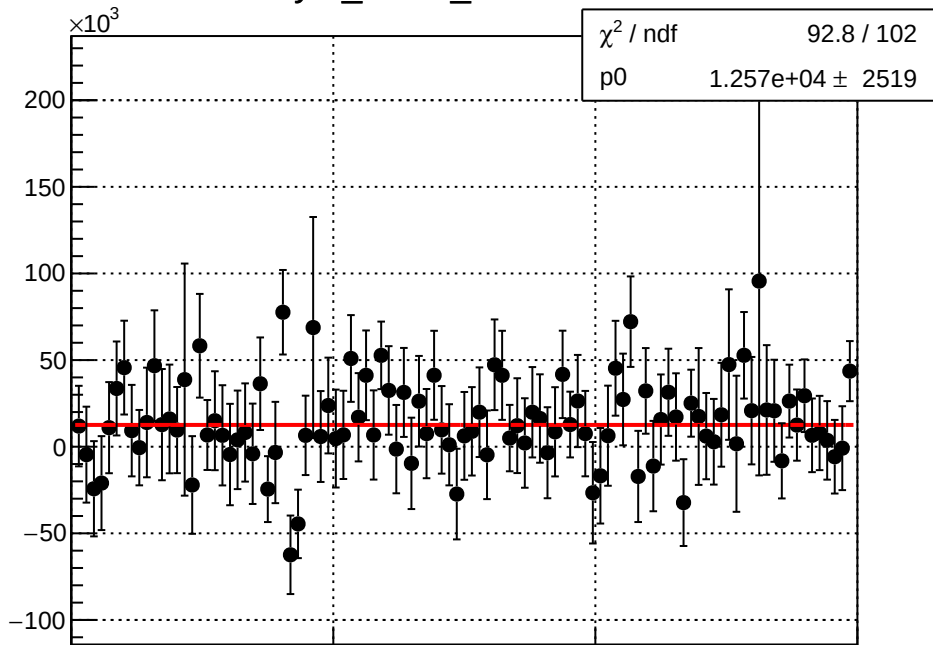
asym_sam6_mean vs run



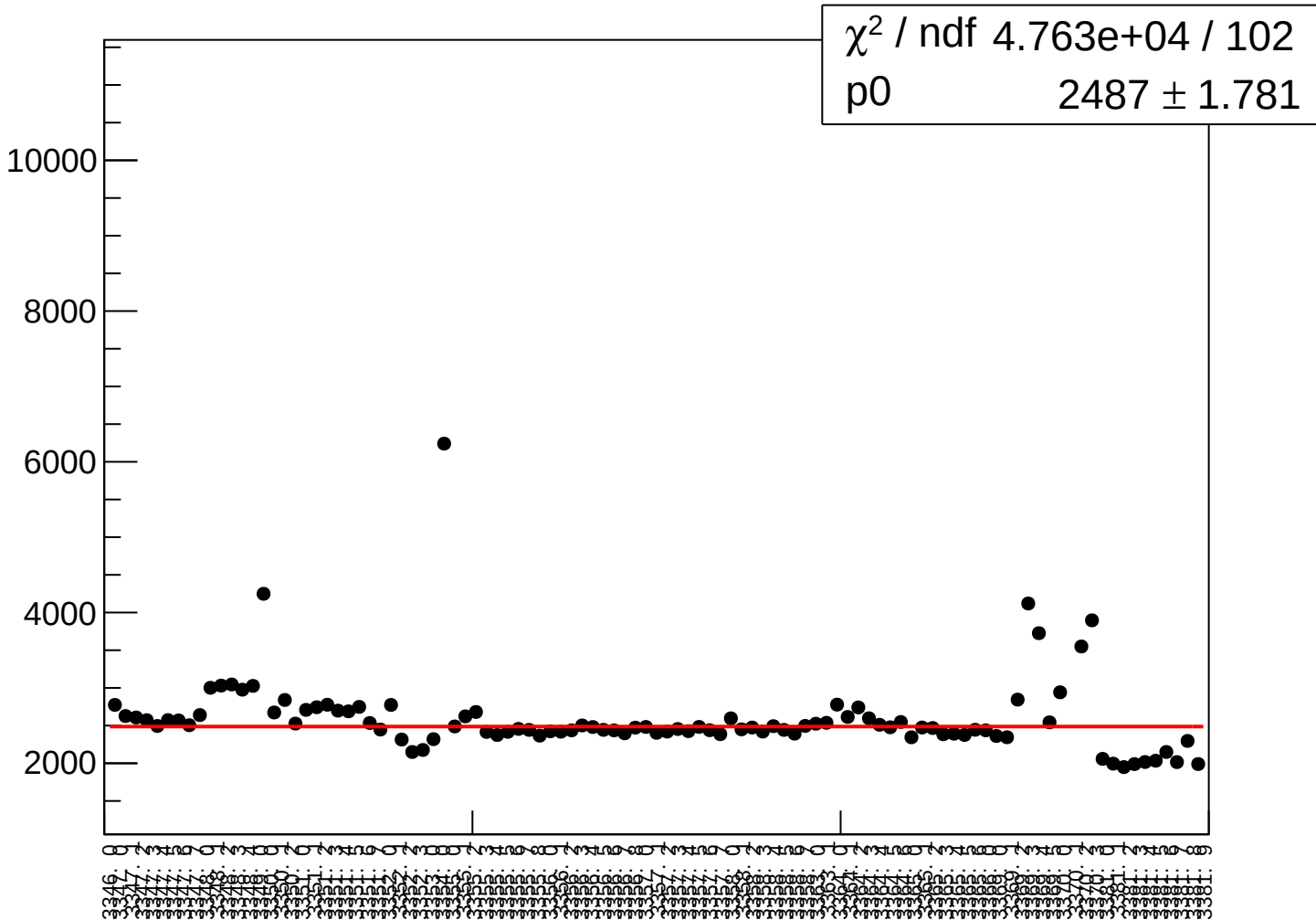
asym_sam6_rms vs run



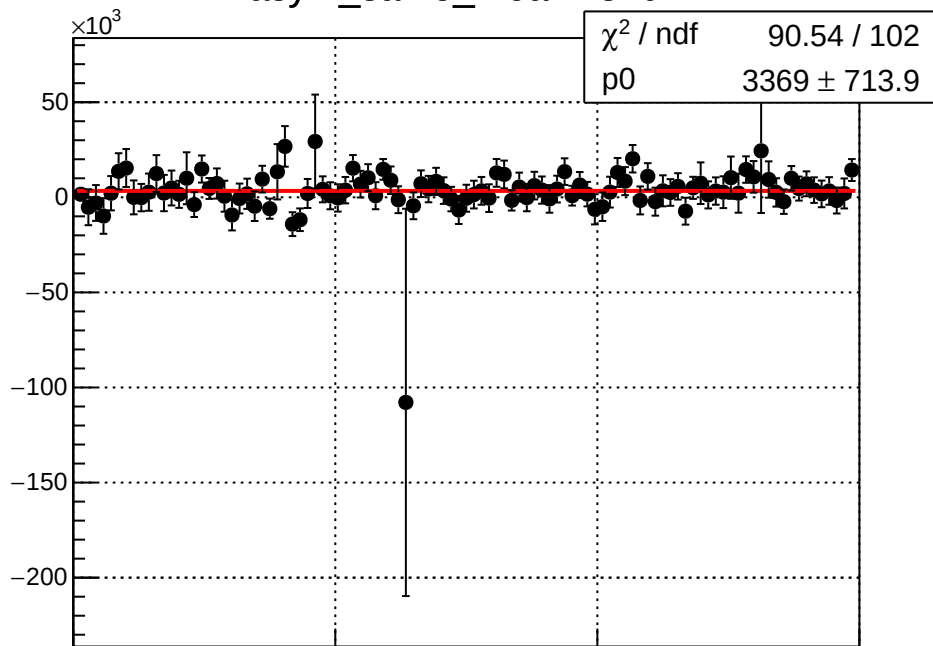
asym_sam7_mean vs run



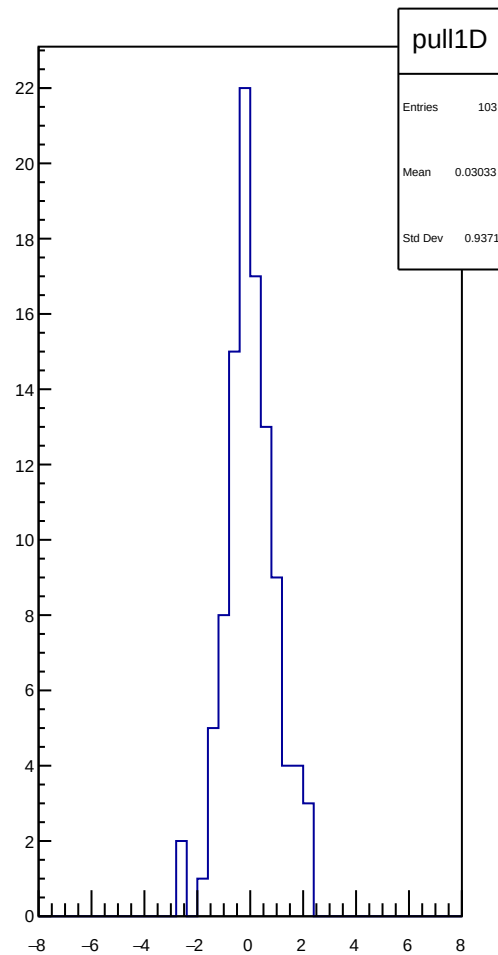
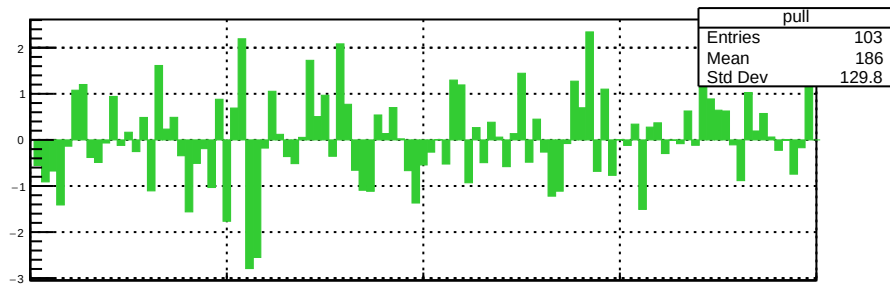
asym_sam7_rms vs run



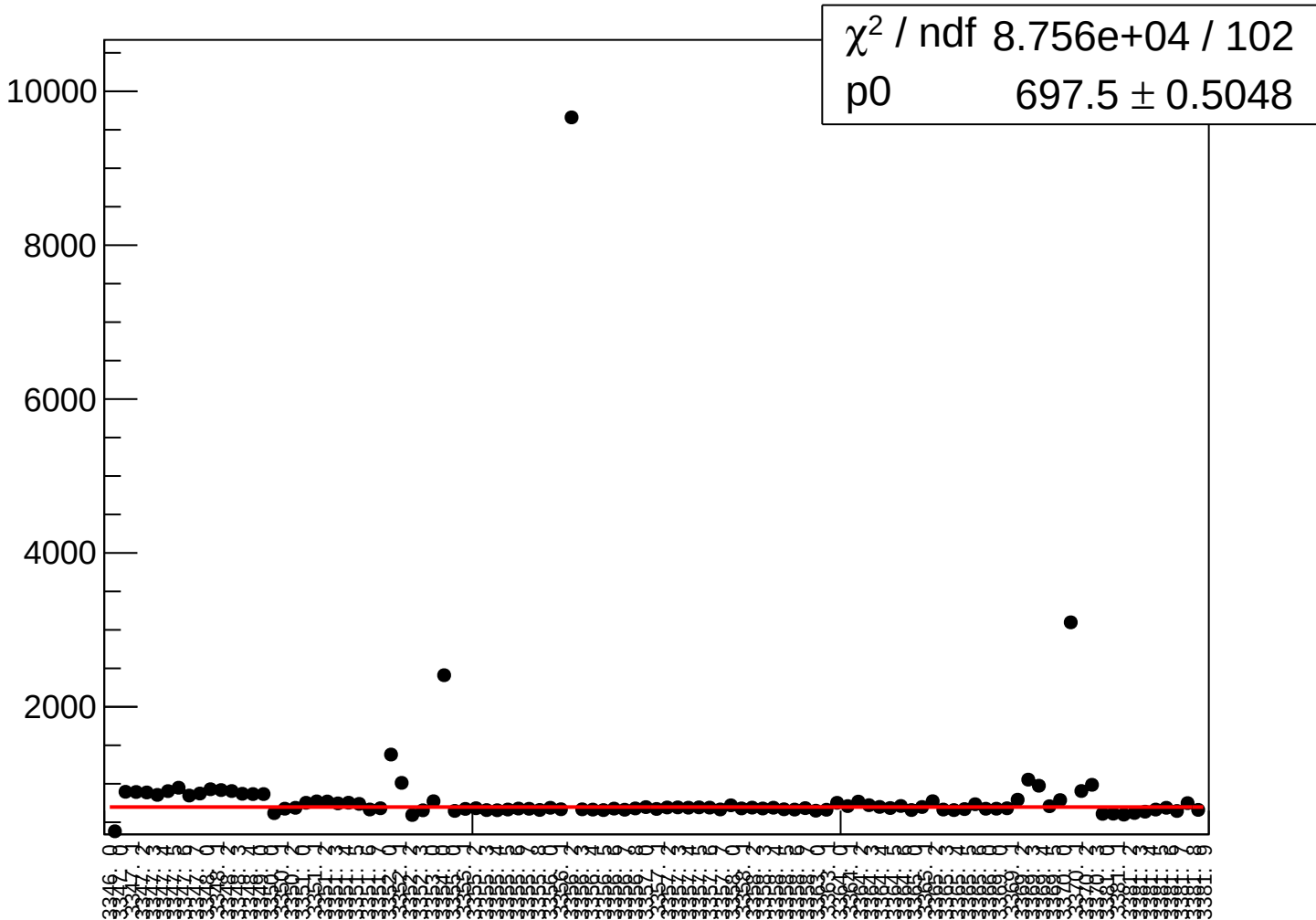
asym_sam8_mean vs run



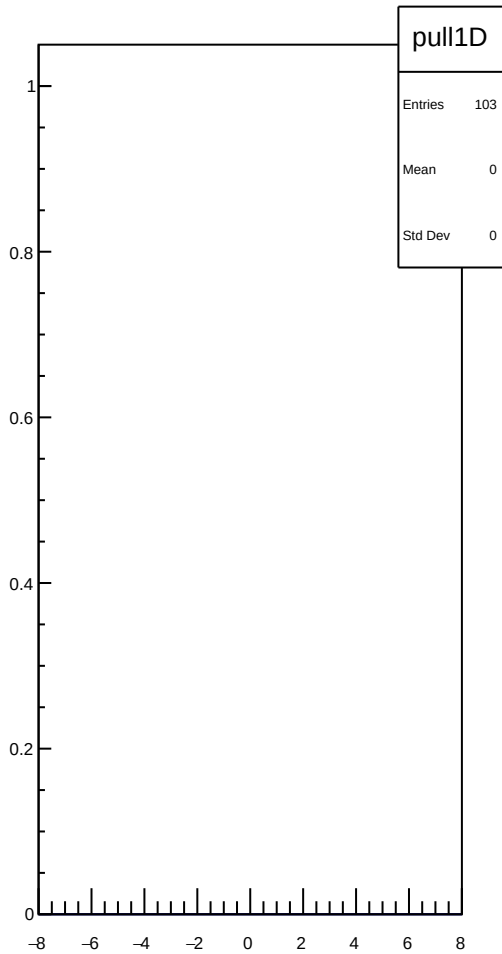
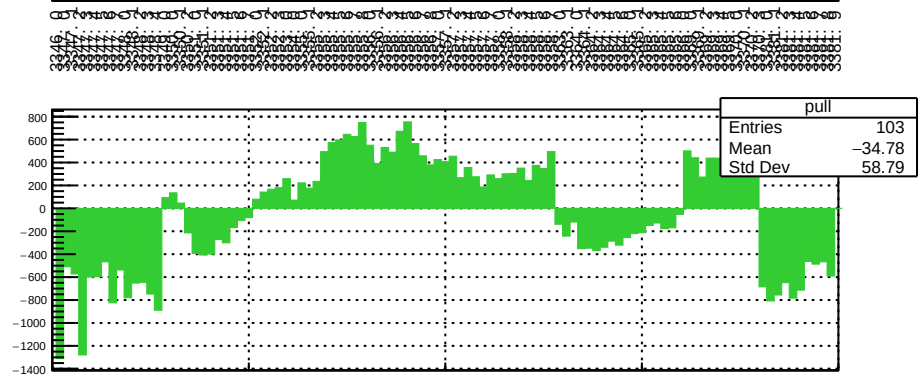
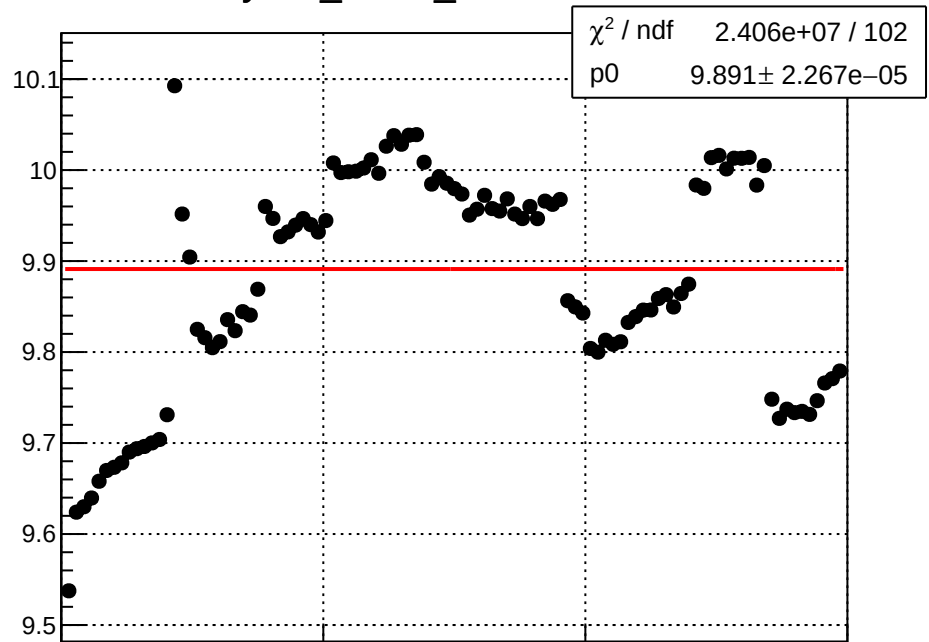
asym_sam8_mean vs run



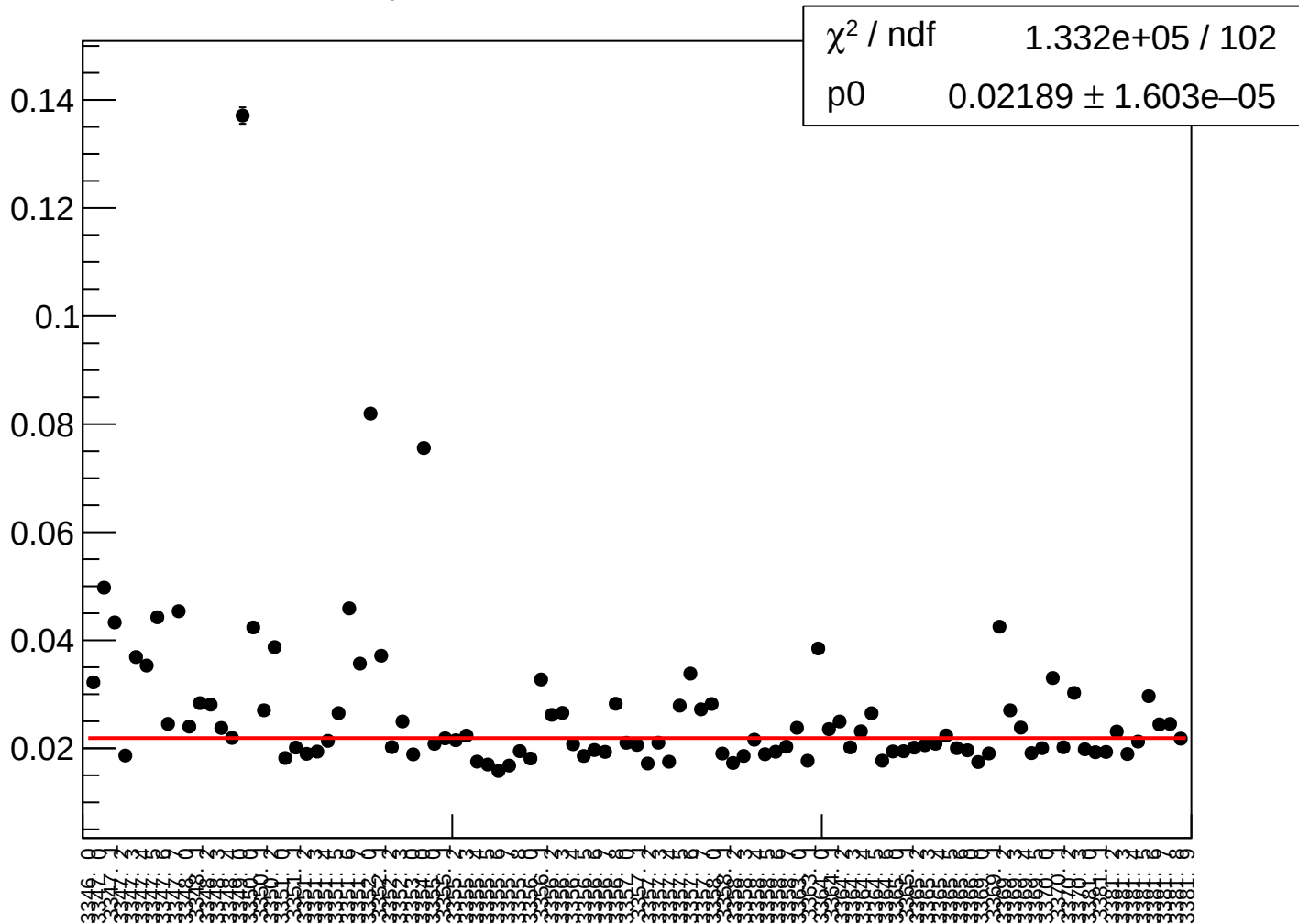
asym_sam8_rms vs run



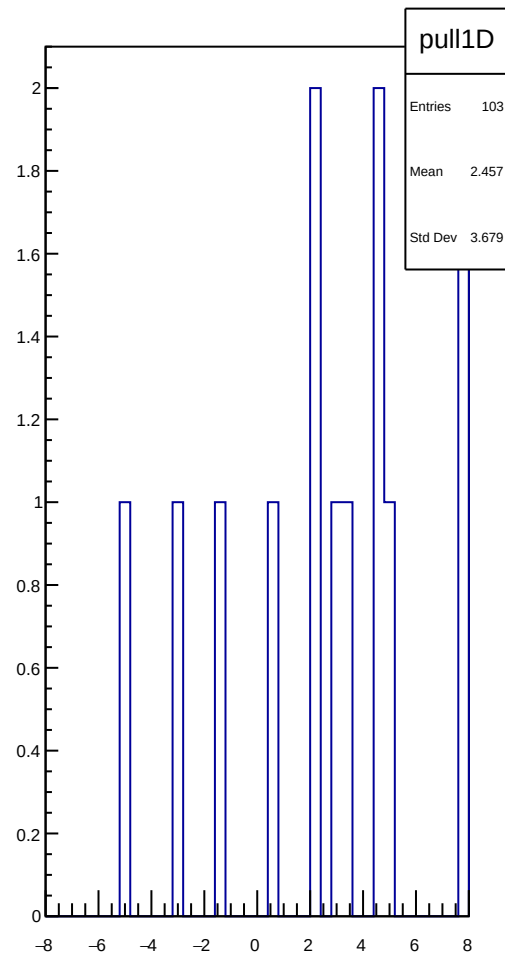
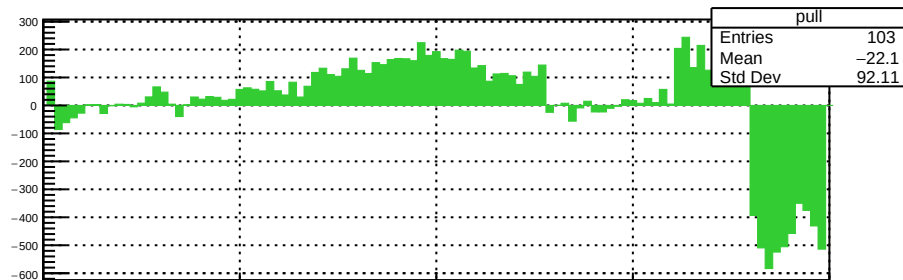
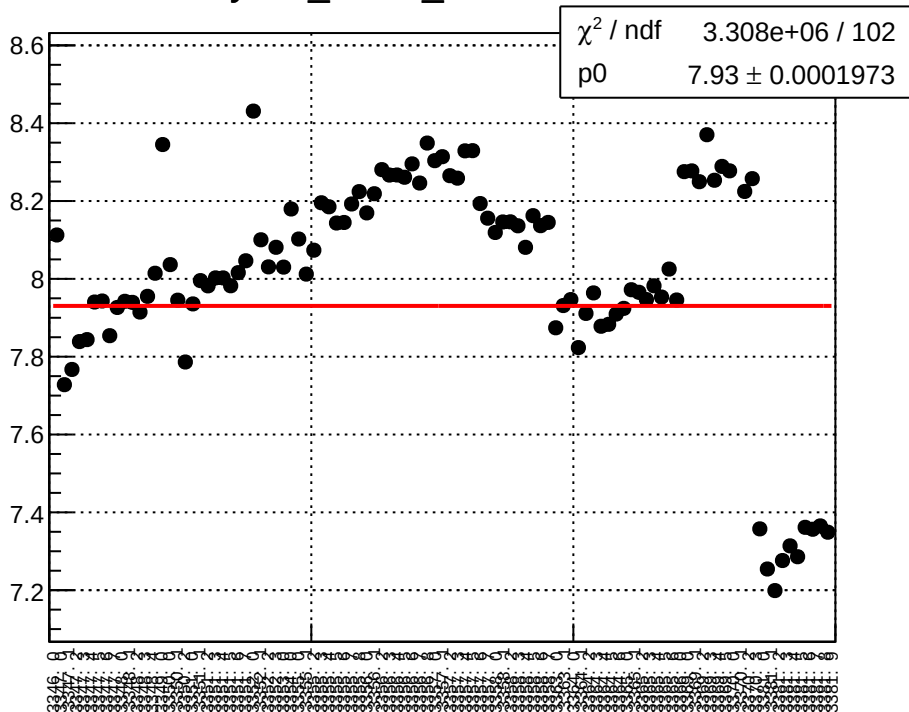
yield_sam1_mean vs run



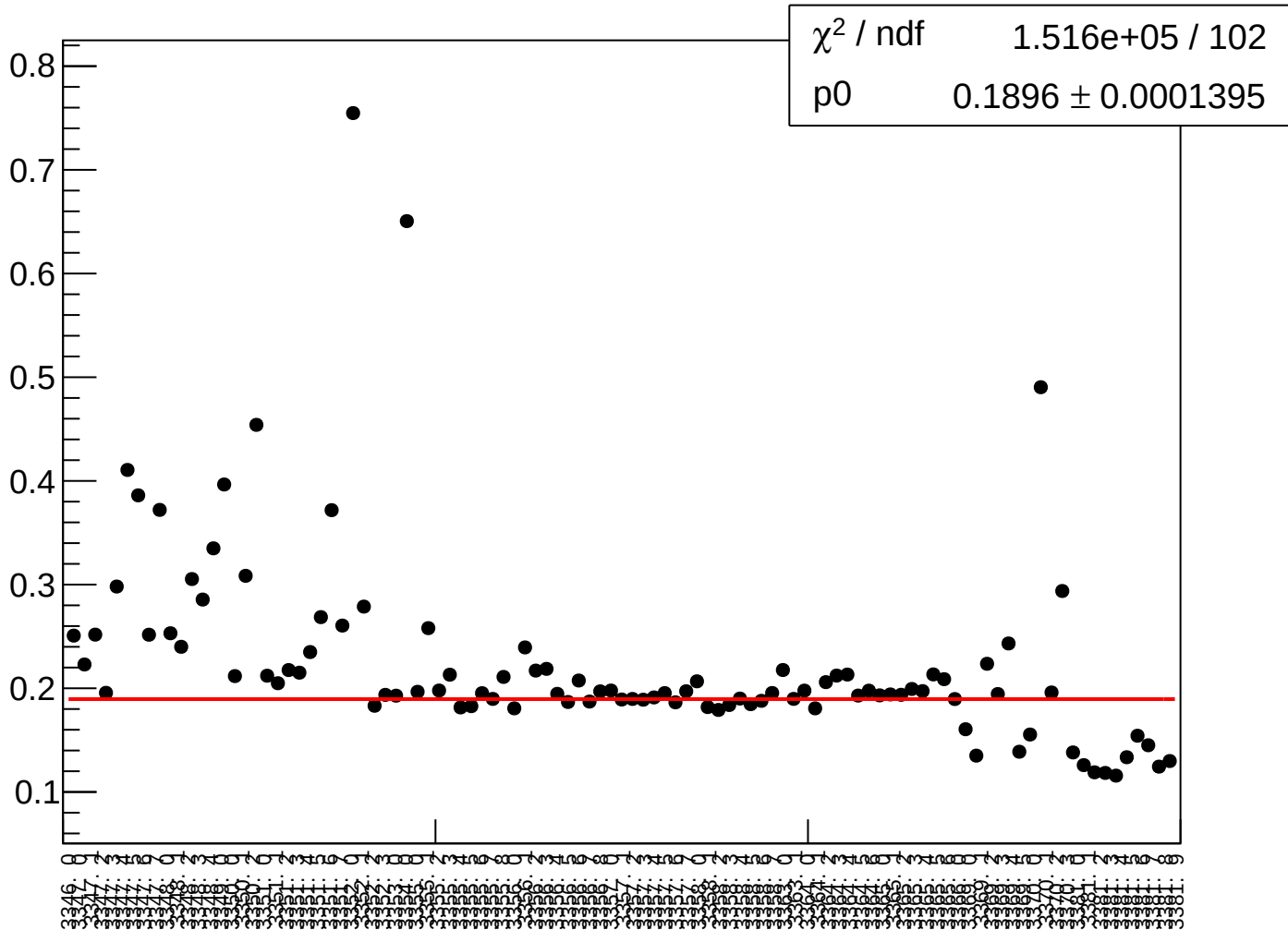
yield_sam1_rms vs run



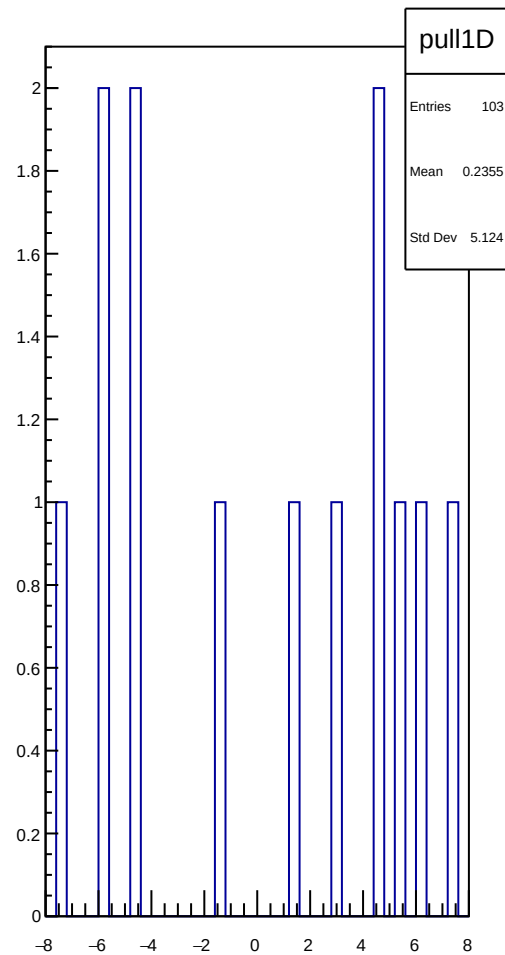
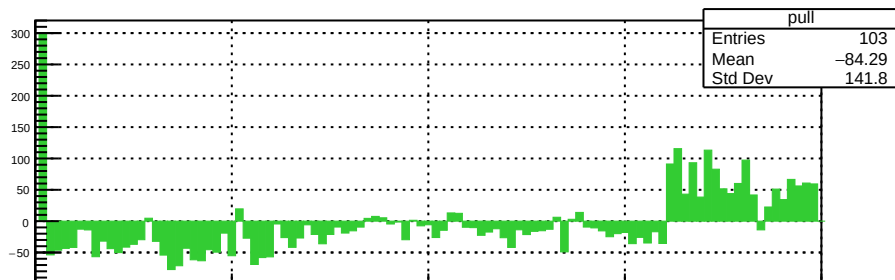
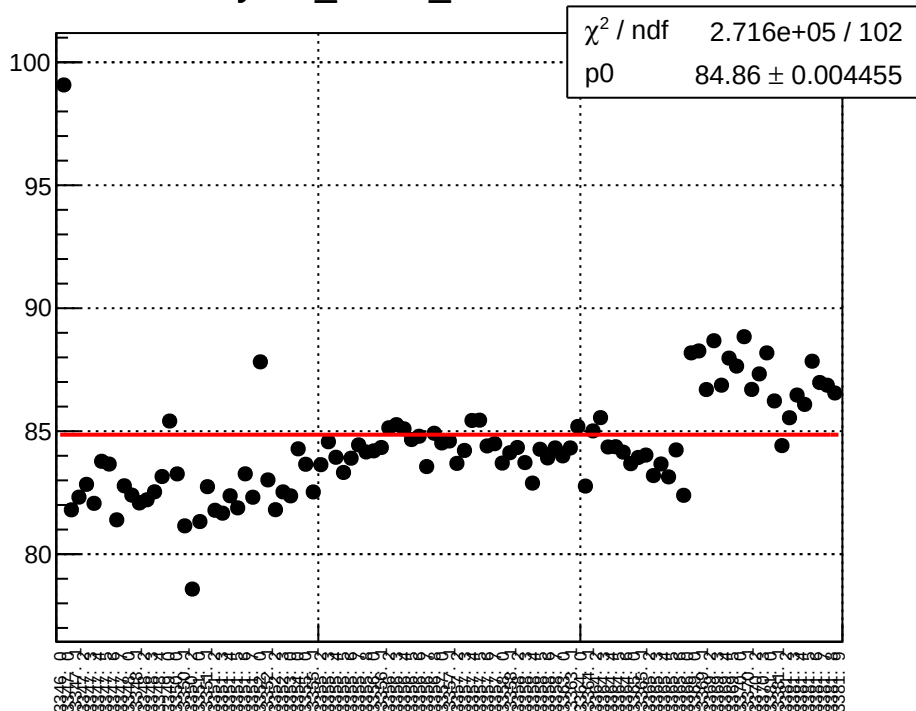
yield_sam2_mean vs run



yield_sam2_rms vs run

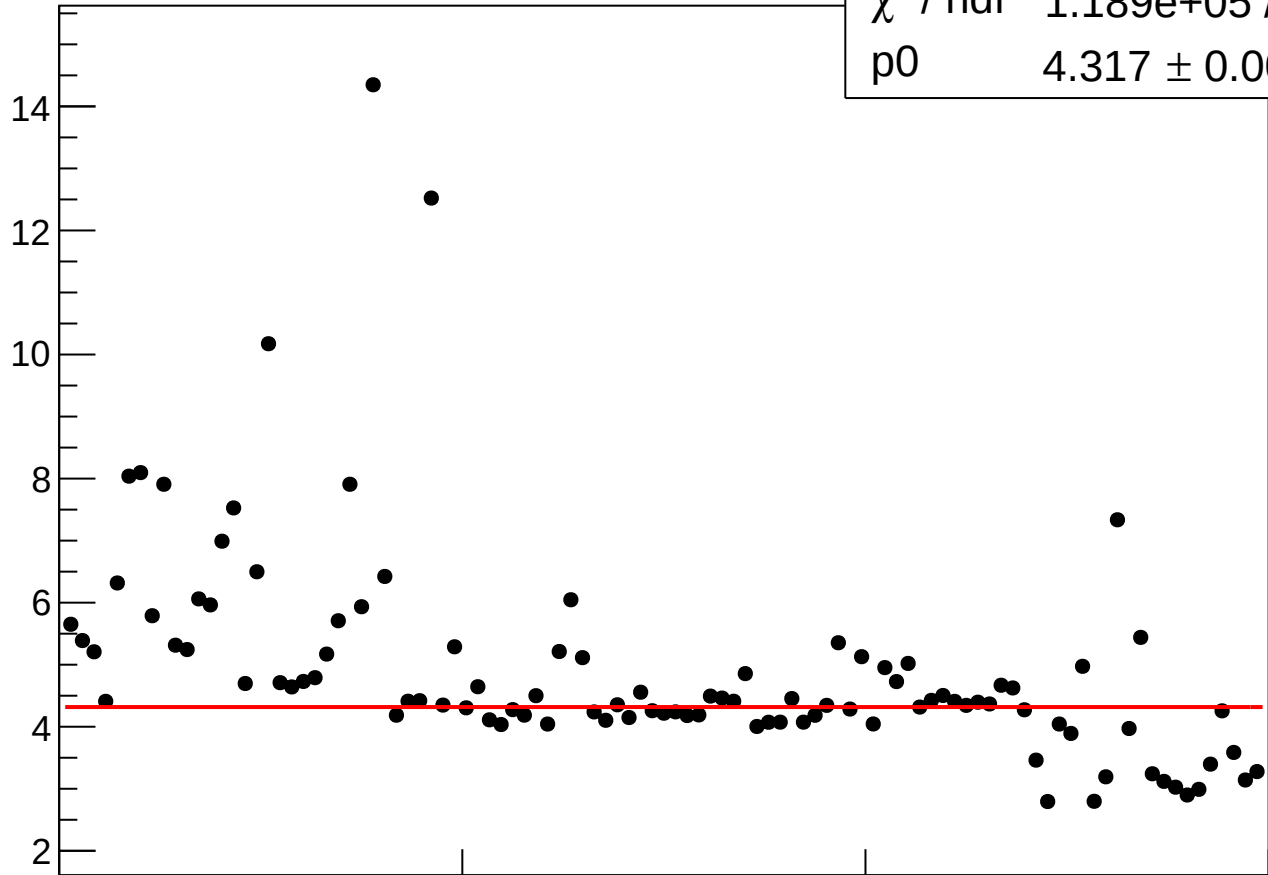


yield_sam3_mean vs run

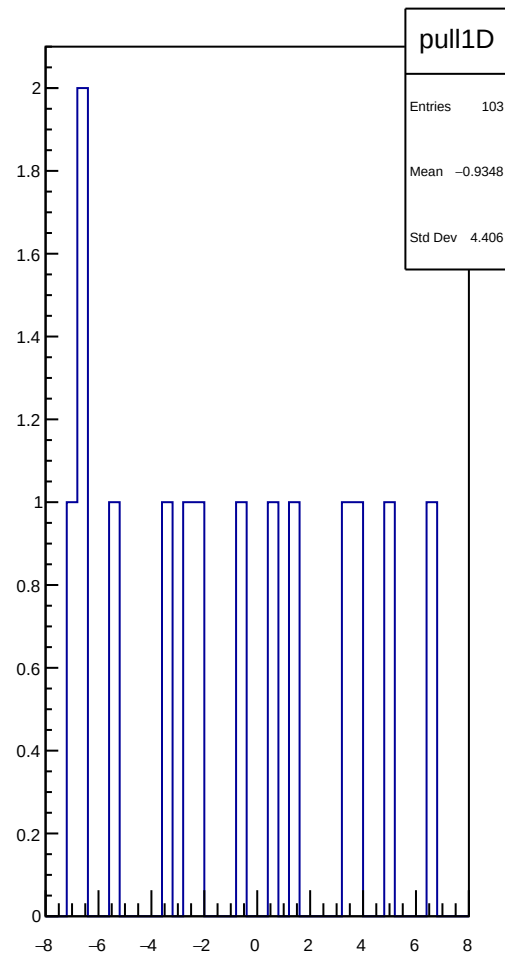
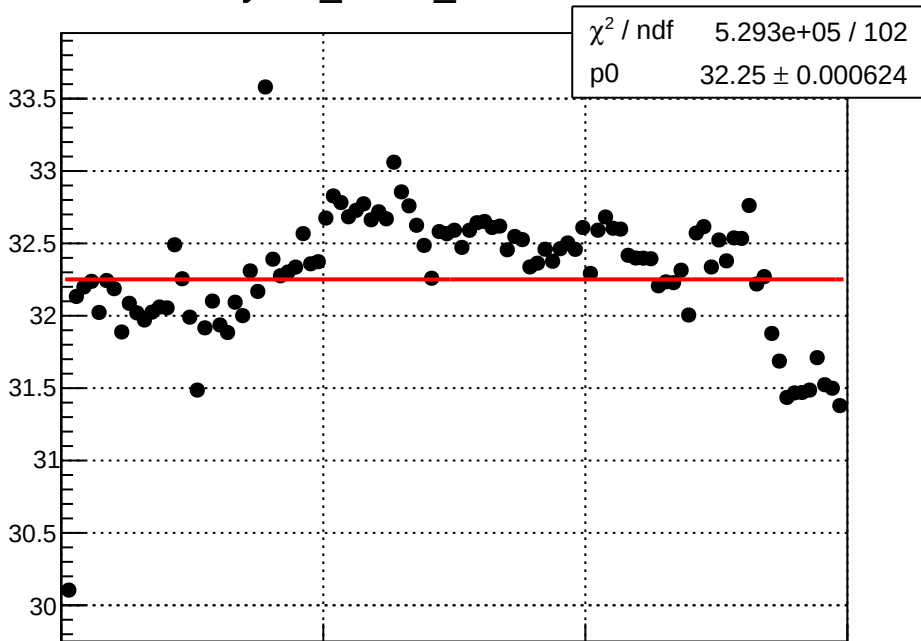


yield_sam3_rms vs run

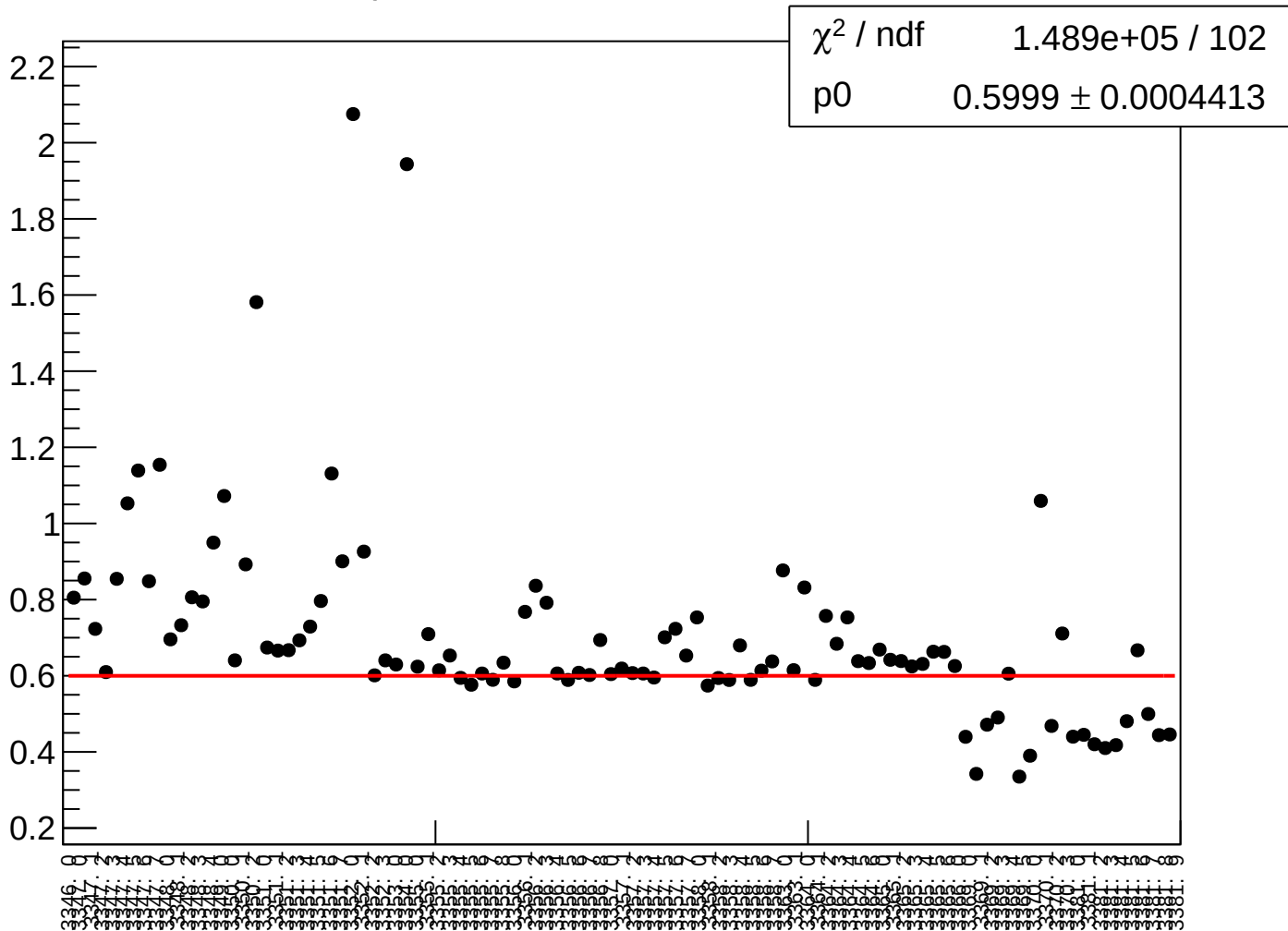
χ^2 / ndf 1.189e+05 / 102
p0 4.317 $\pm$ 0.00315



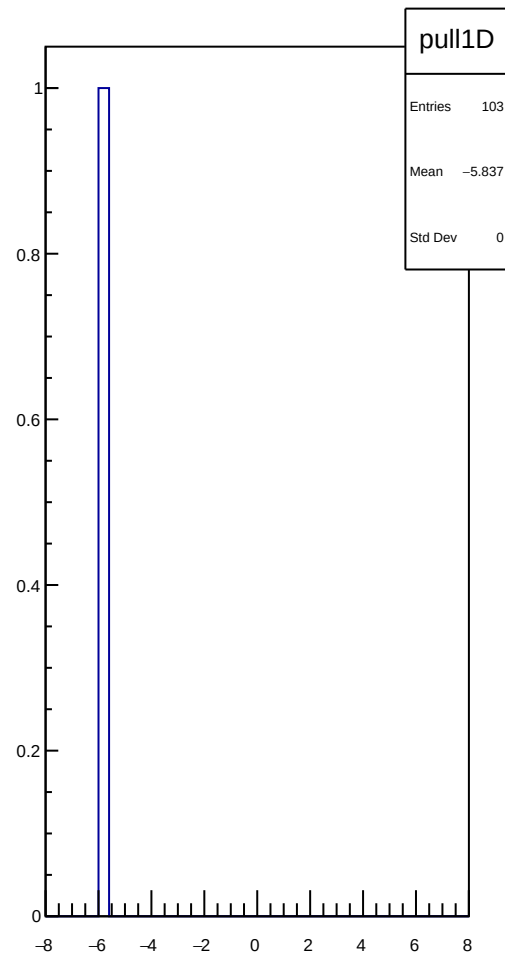
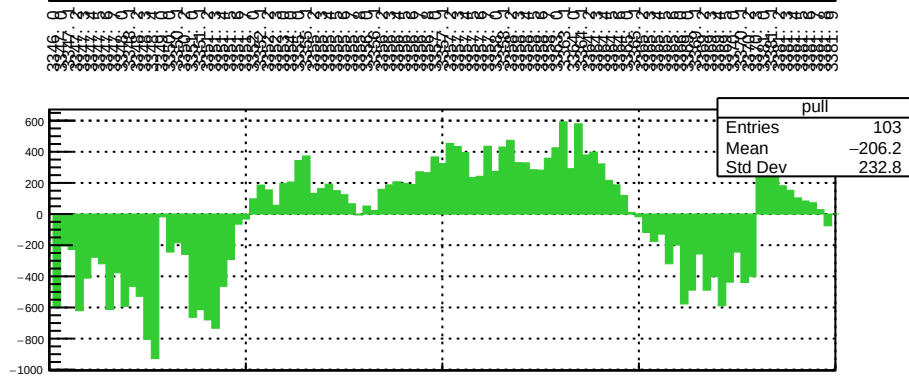
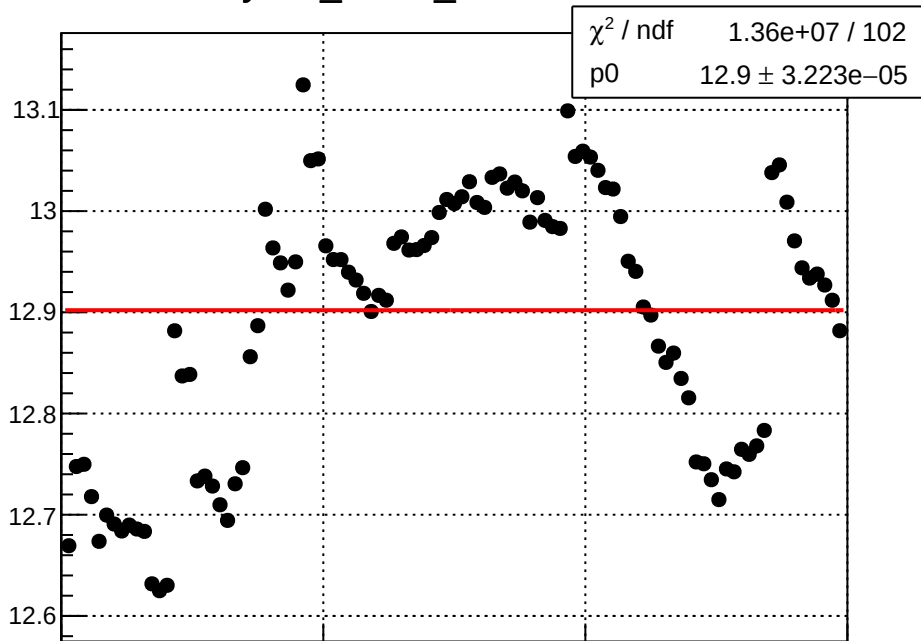
yield_sam4_mean vs run



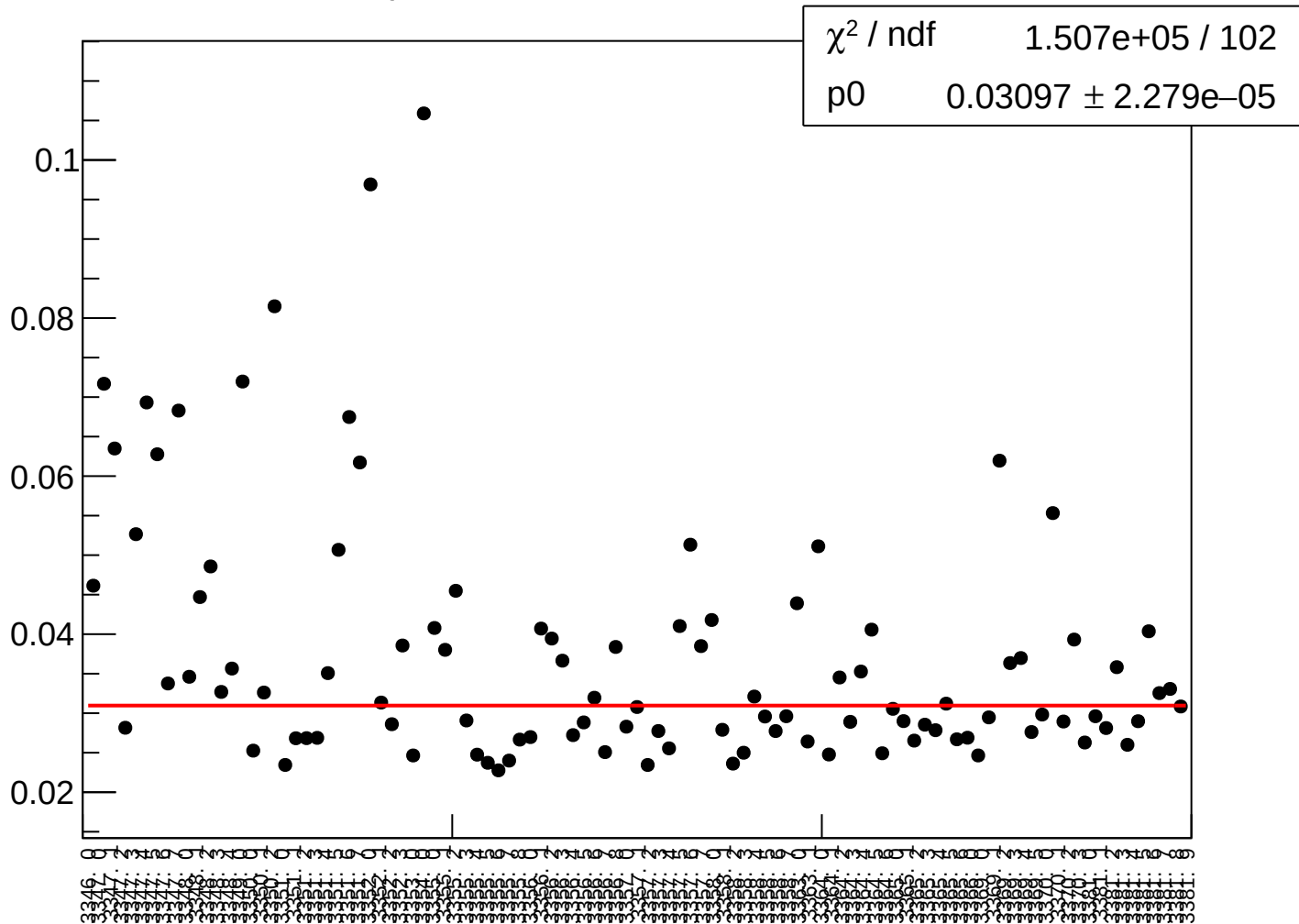
yield_sam4_rms vs run



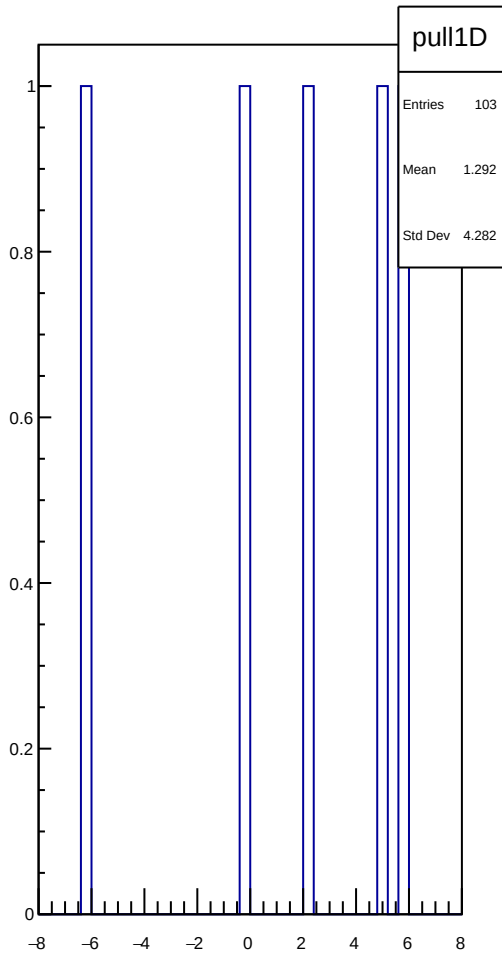
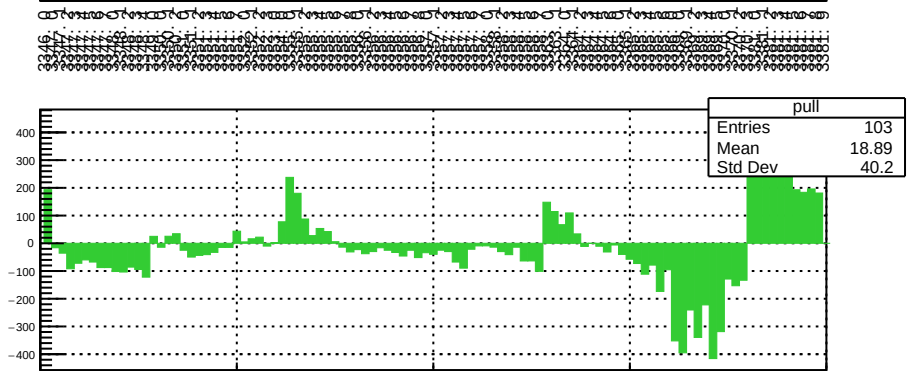
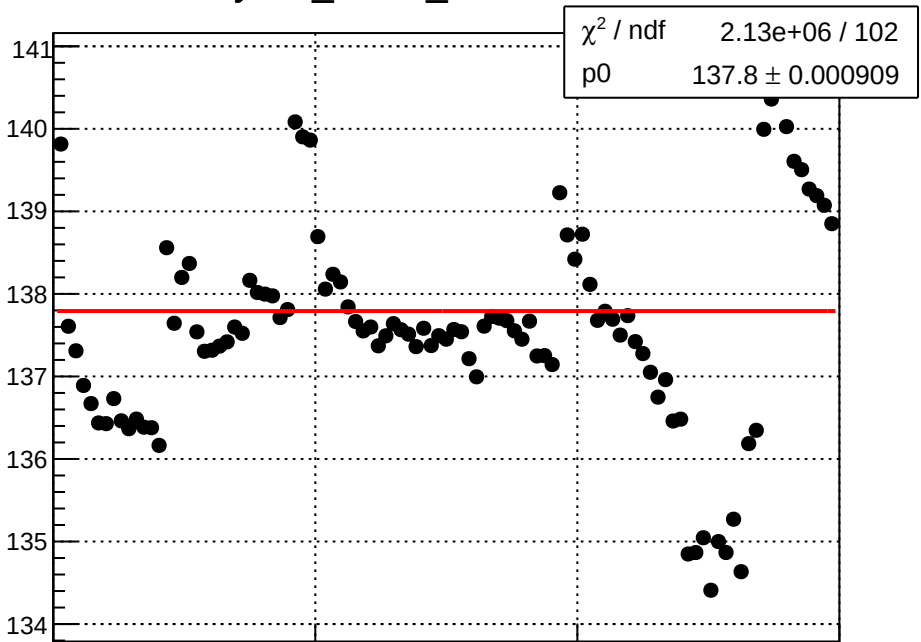
yield_sam5_mean vs run



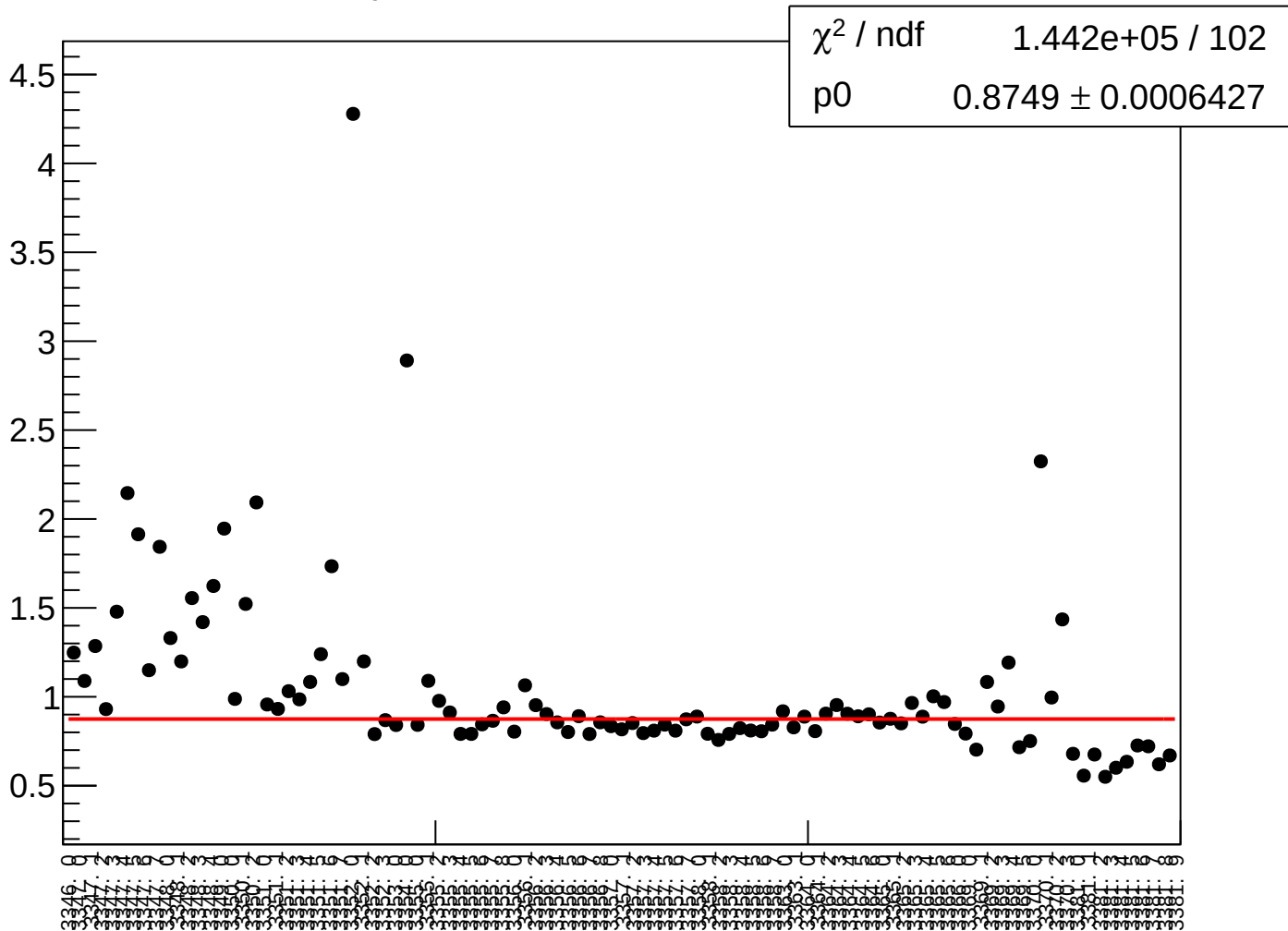
yield_sam5_rms vs run



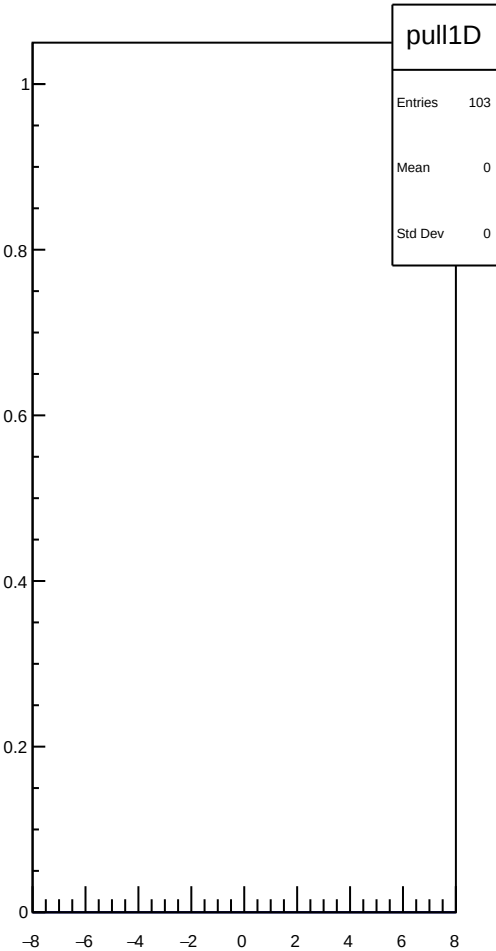
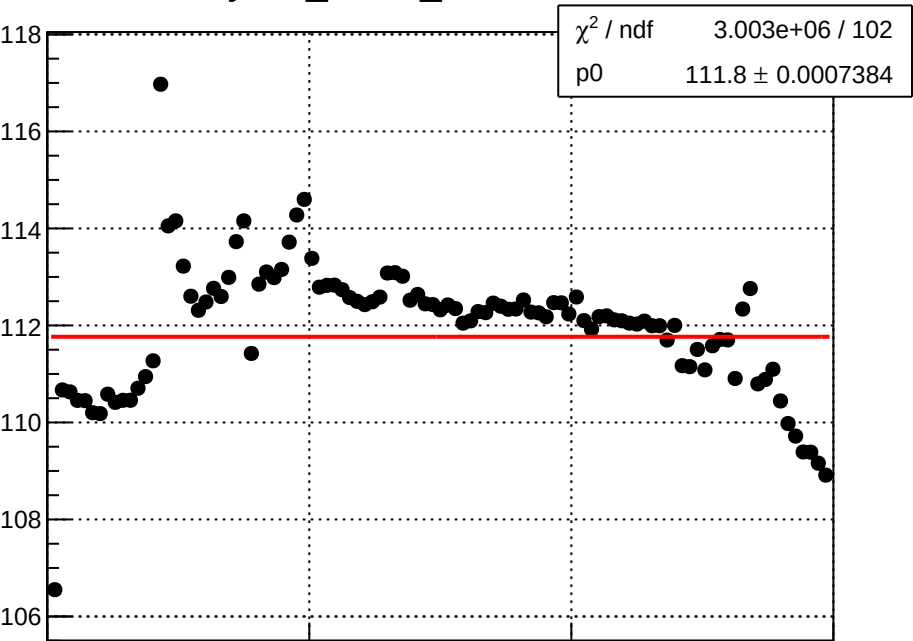
yield_sam6_mean vs run



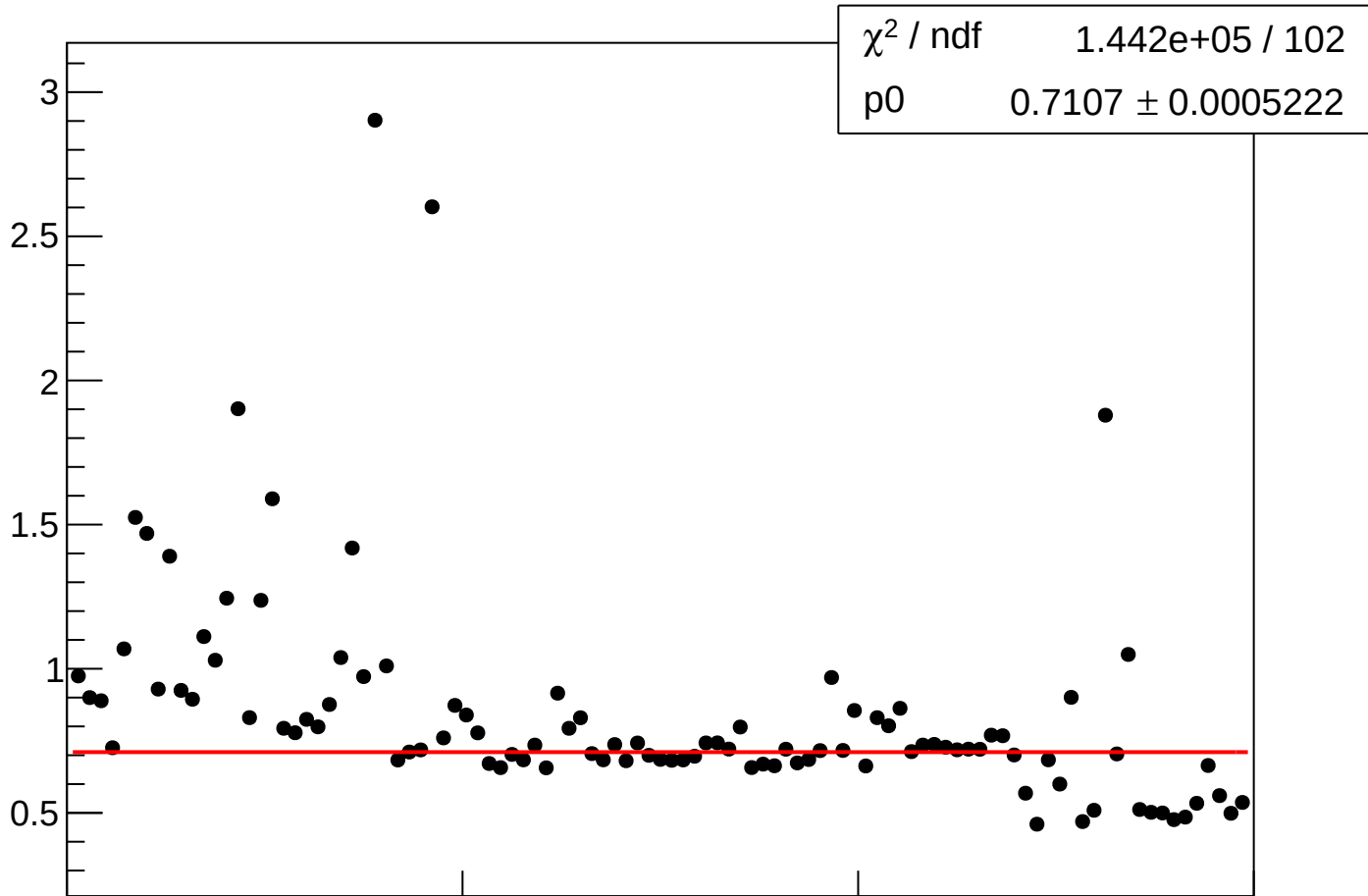
yield_sam6_rms vs run



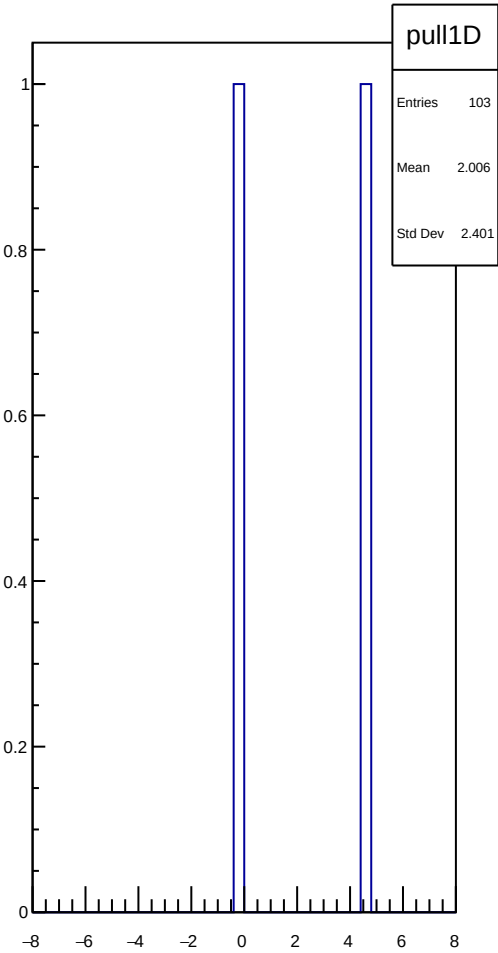
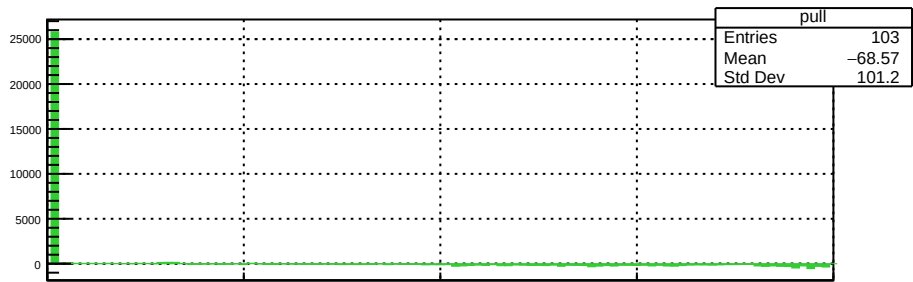
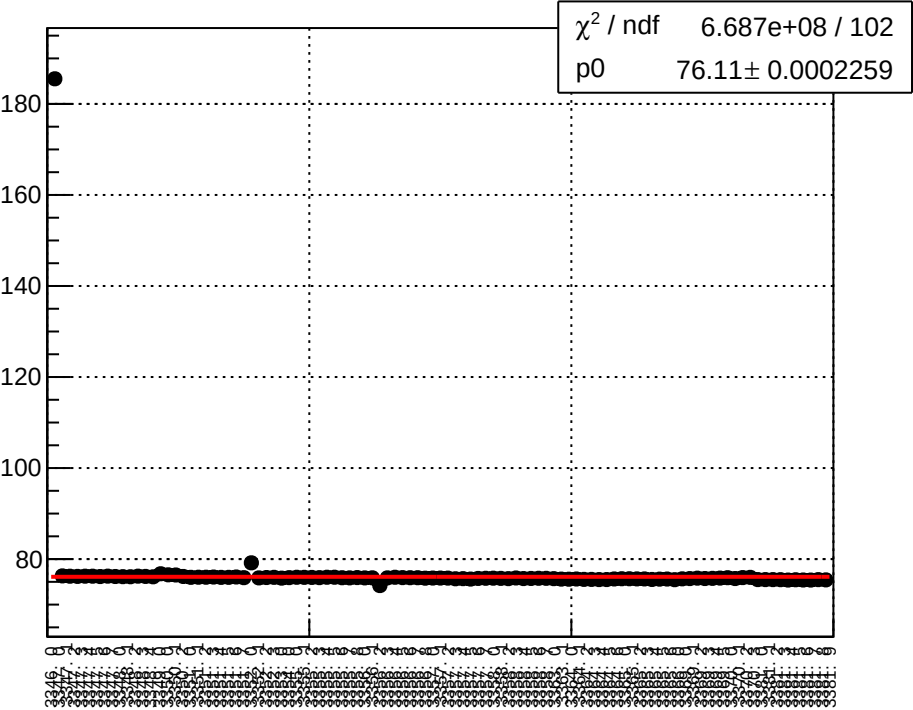
yield_sam7_mean vs run



yield_sam7_rms vs run



yield_sam8_mean vs run



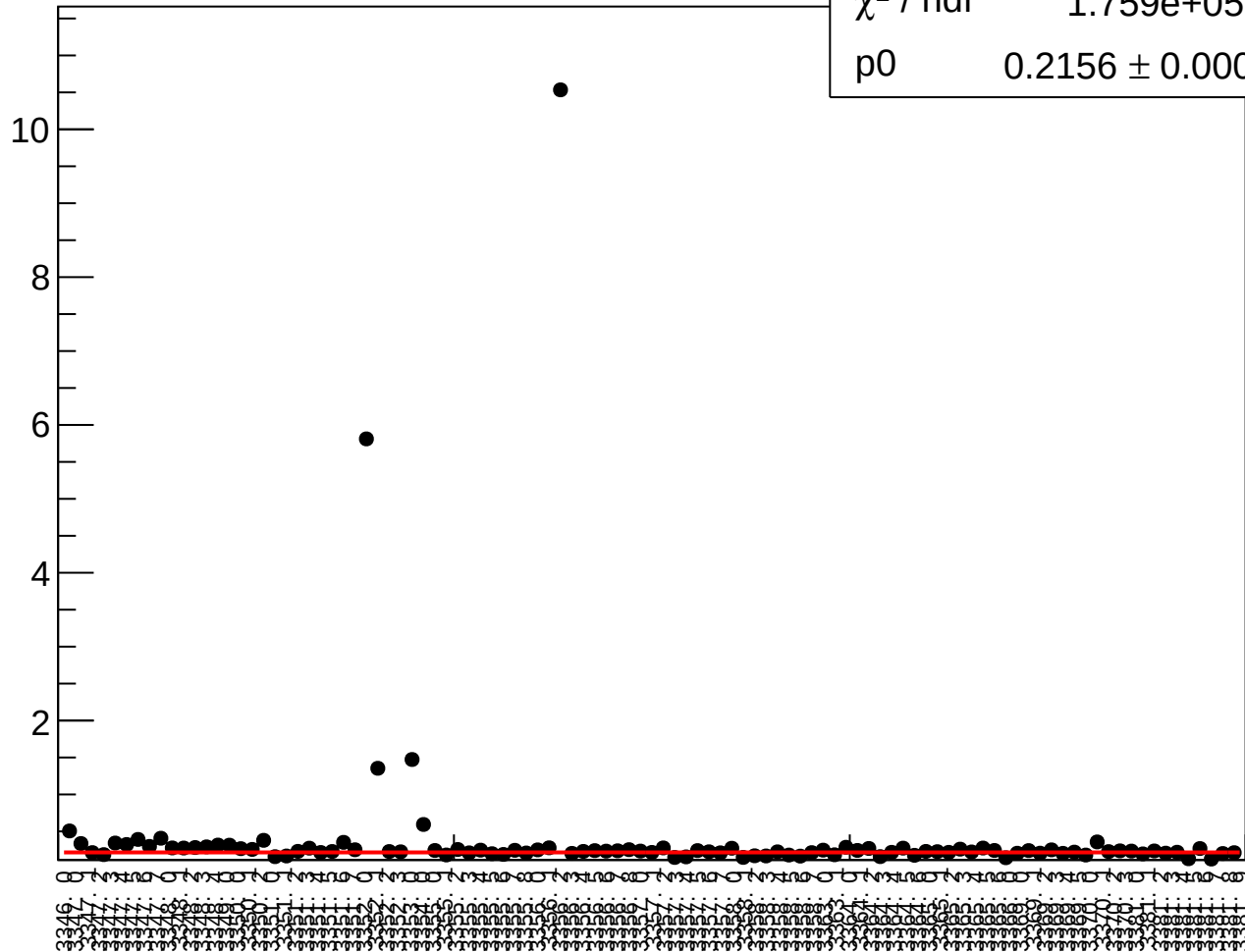
yield_sam8_rms vs run

χ^2 / ndf

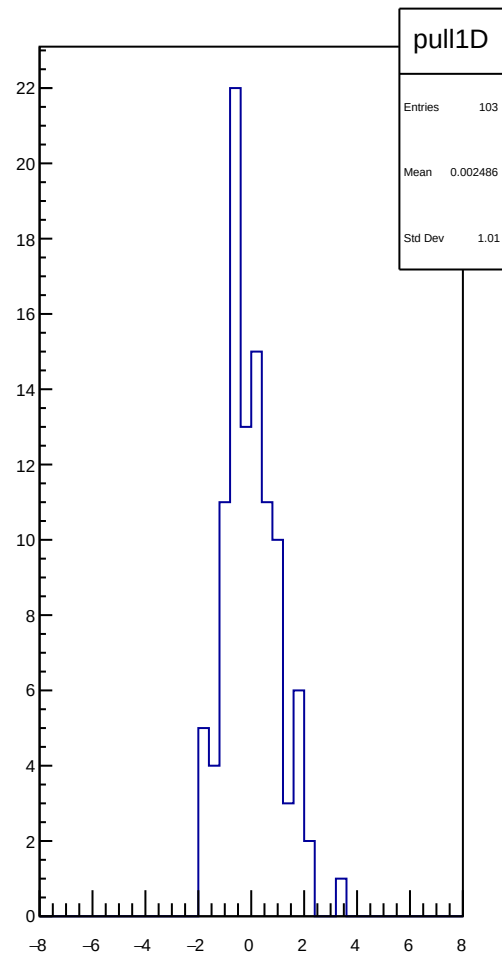
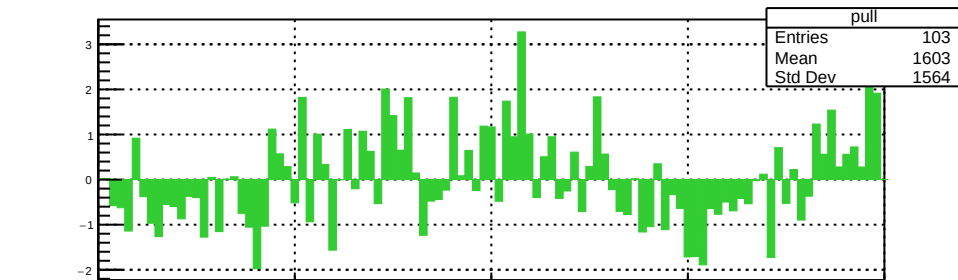
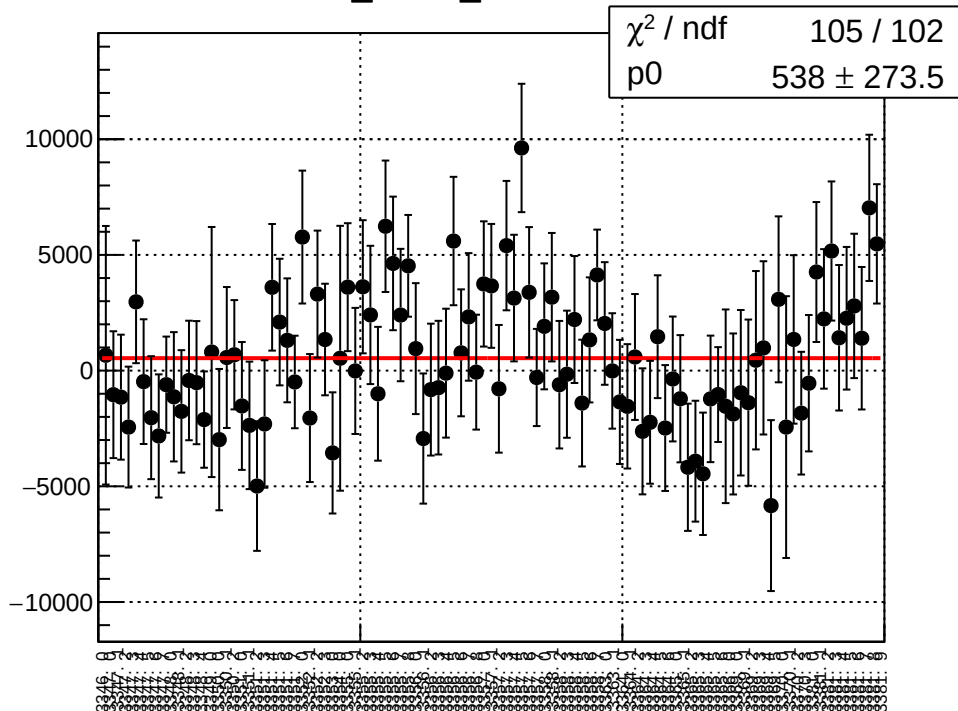
1.759e+05 / 102

p0

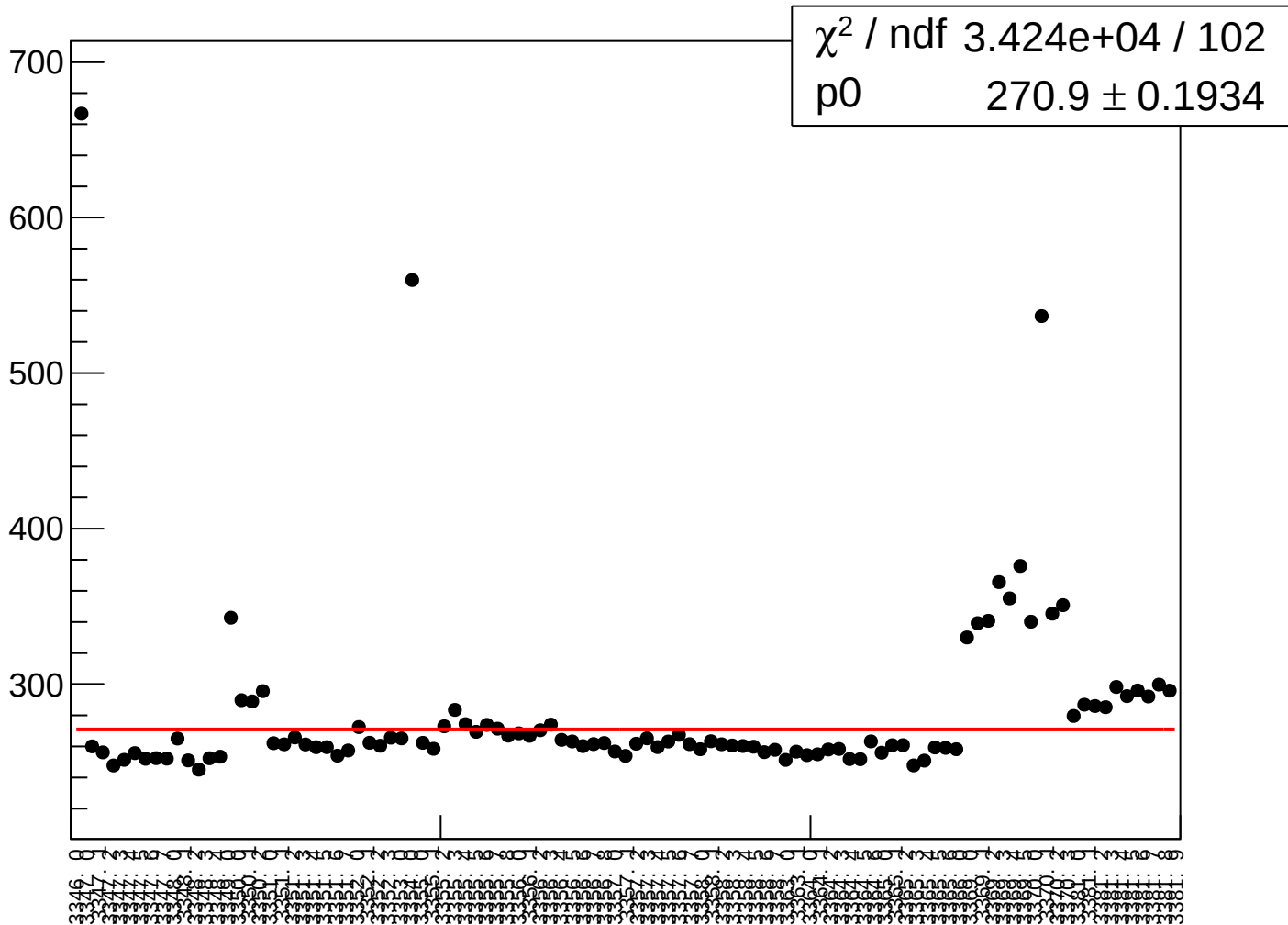
0.2156 ± 0.0001597



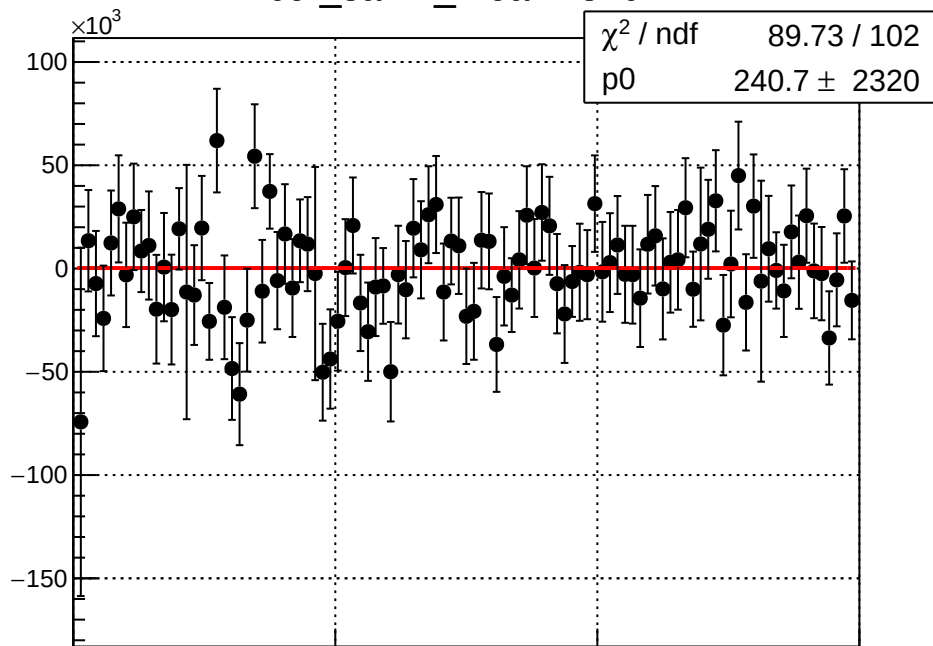
cor_sam1_mean vs run



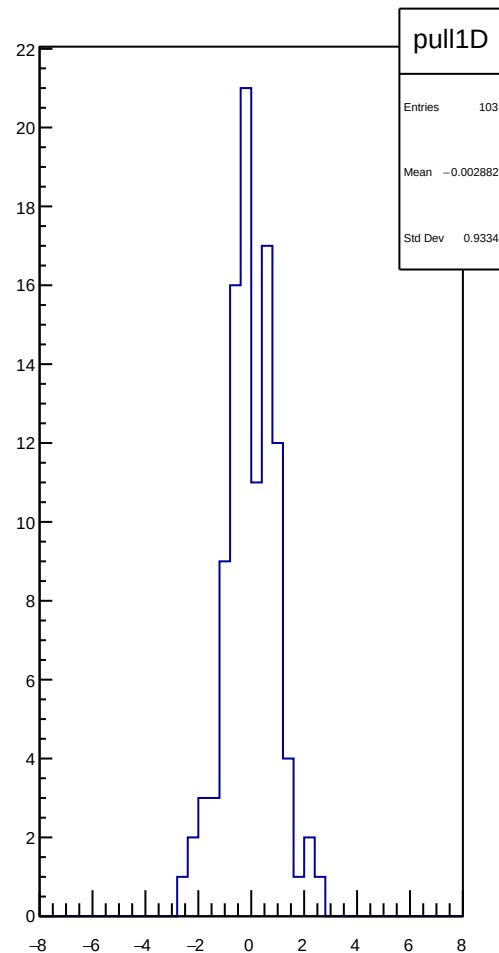
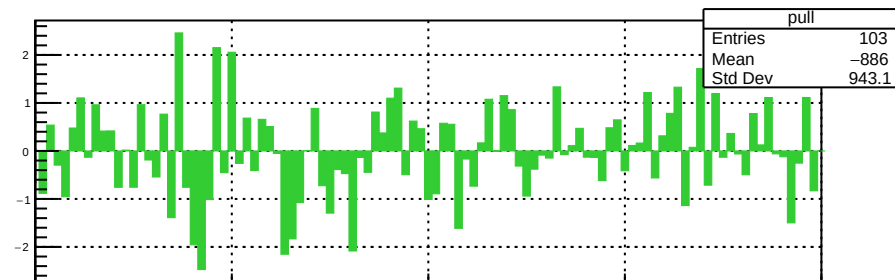
cor_sam1_rms vs run



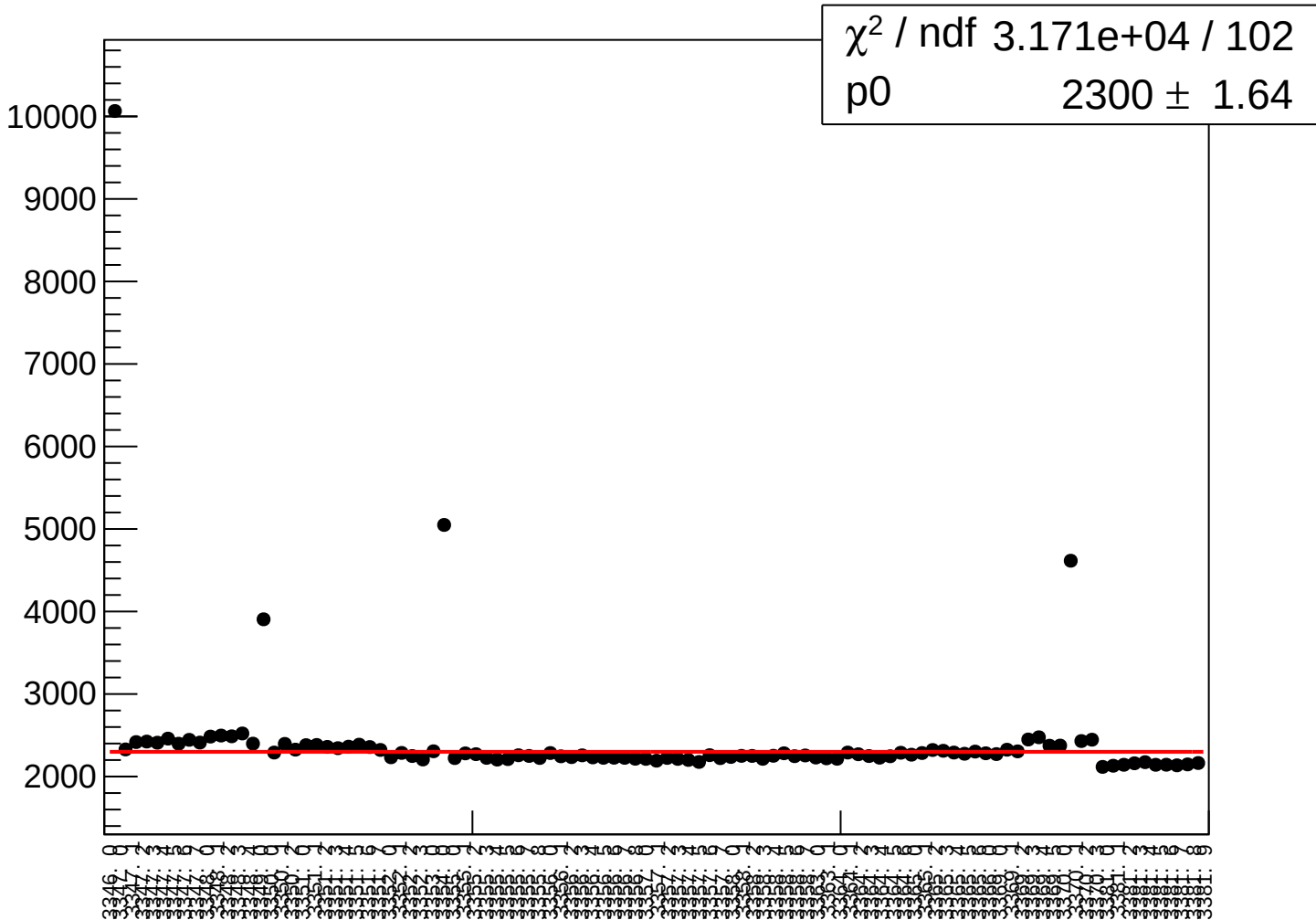
cor_sam2_mean vs run



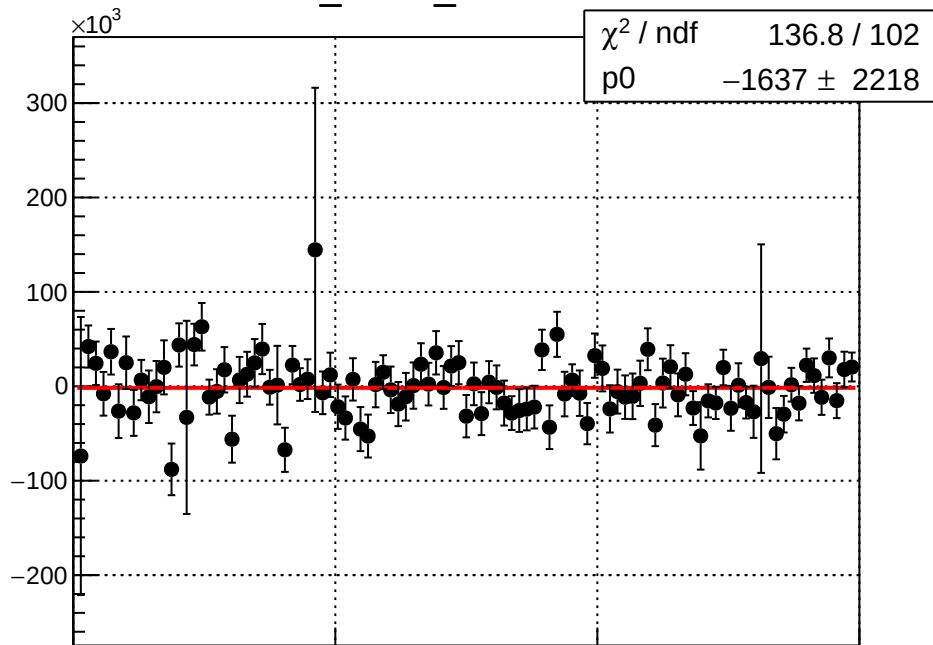
Correlation of sam2_mean versus run. The plot shows a scatter of data points with error bars and a red line representing the fit. The y-axis is scaled by $\times 10^3$.



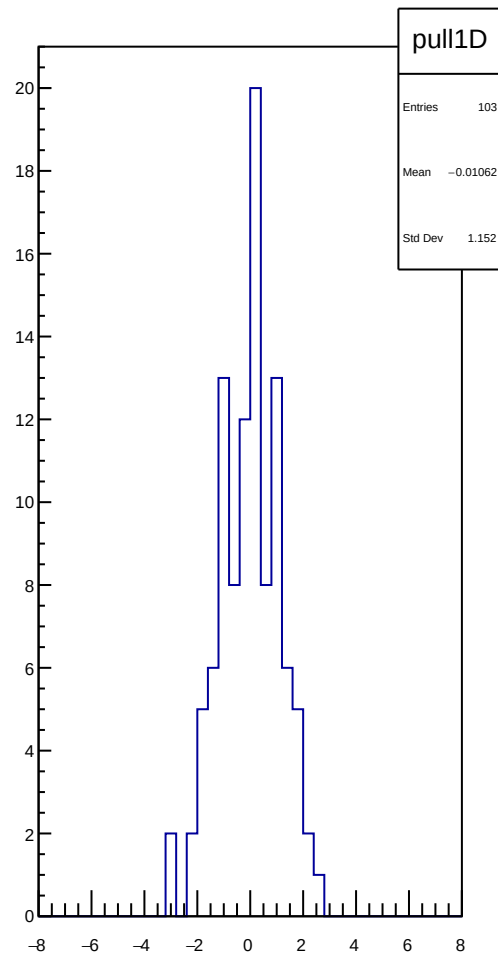
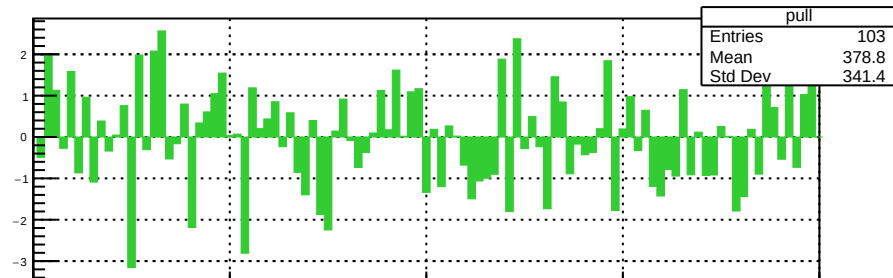
cor_sam2_rms vs run



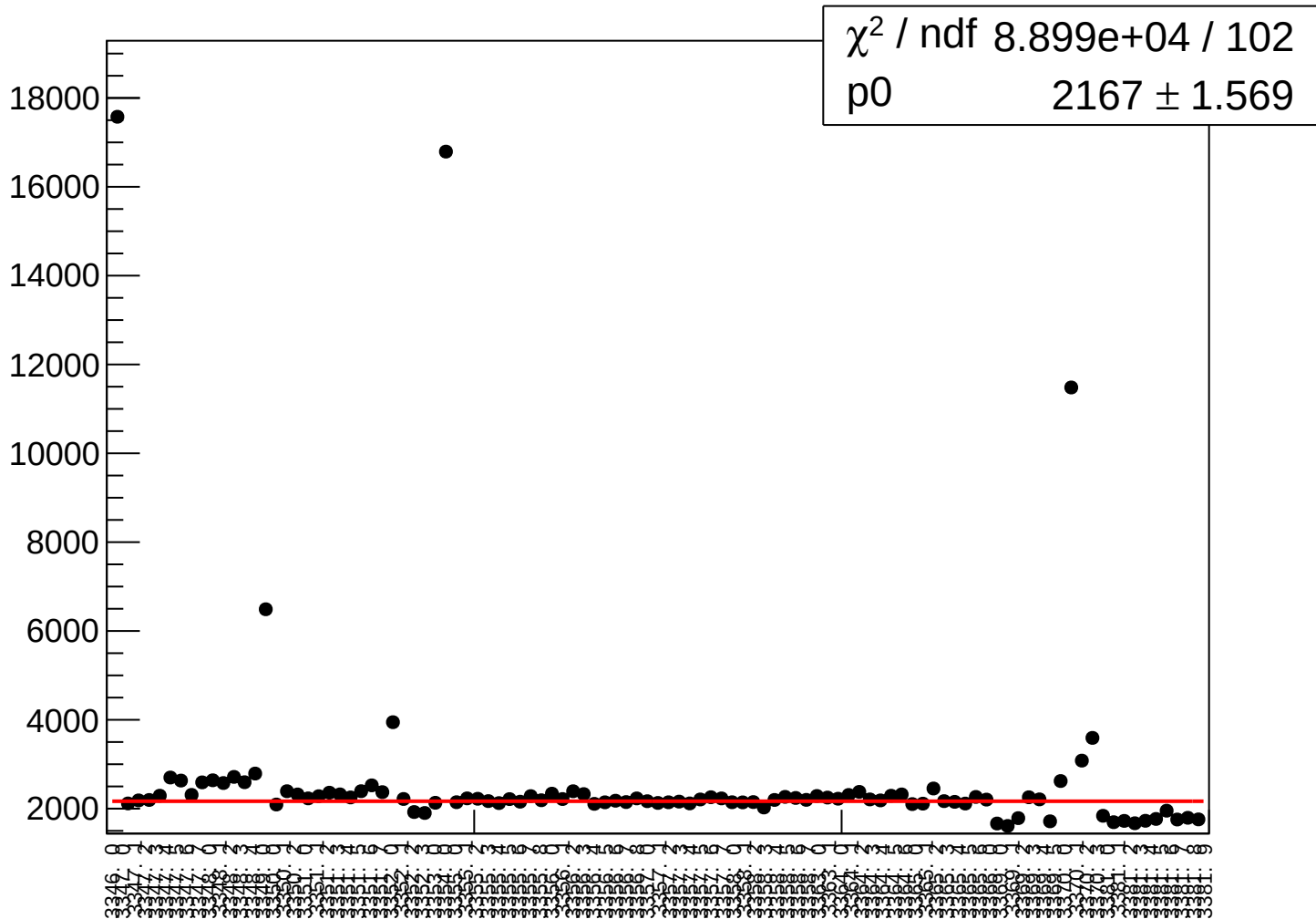
cor_sam3_mean vs run



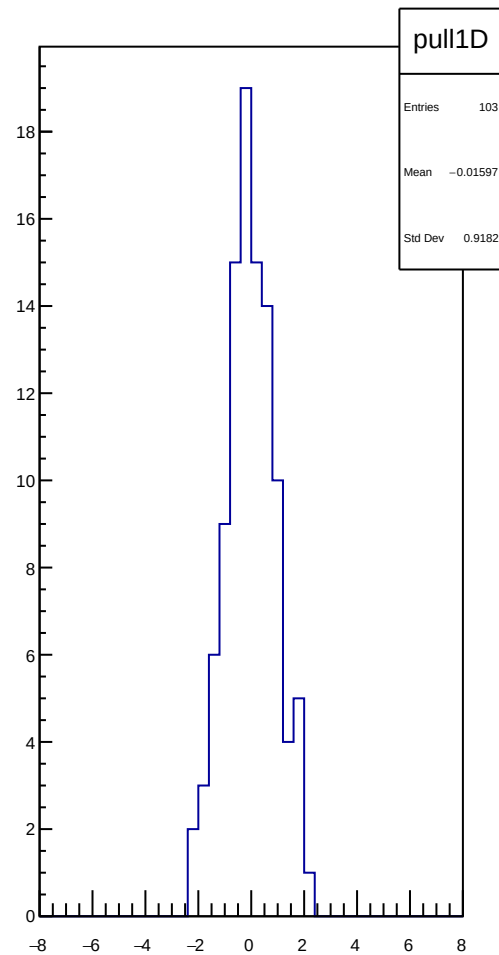
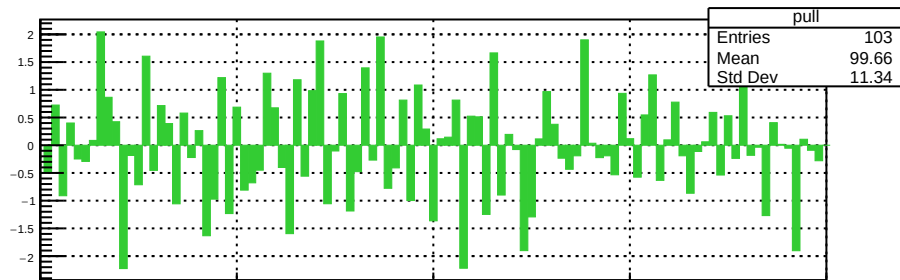
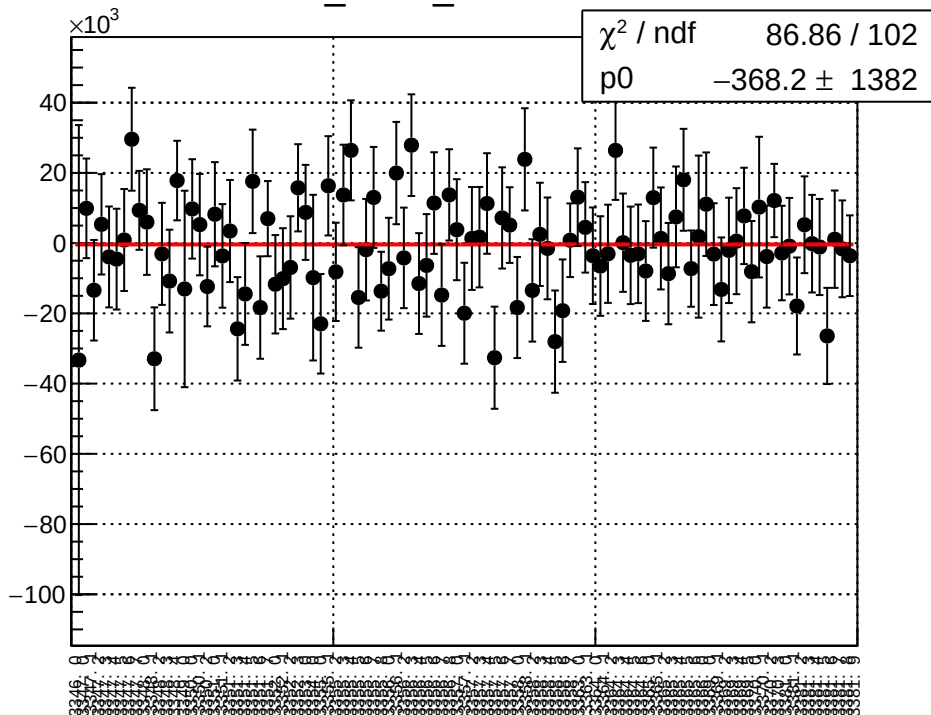
Correlation Coefficient (CC) vs Run



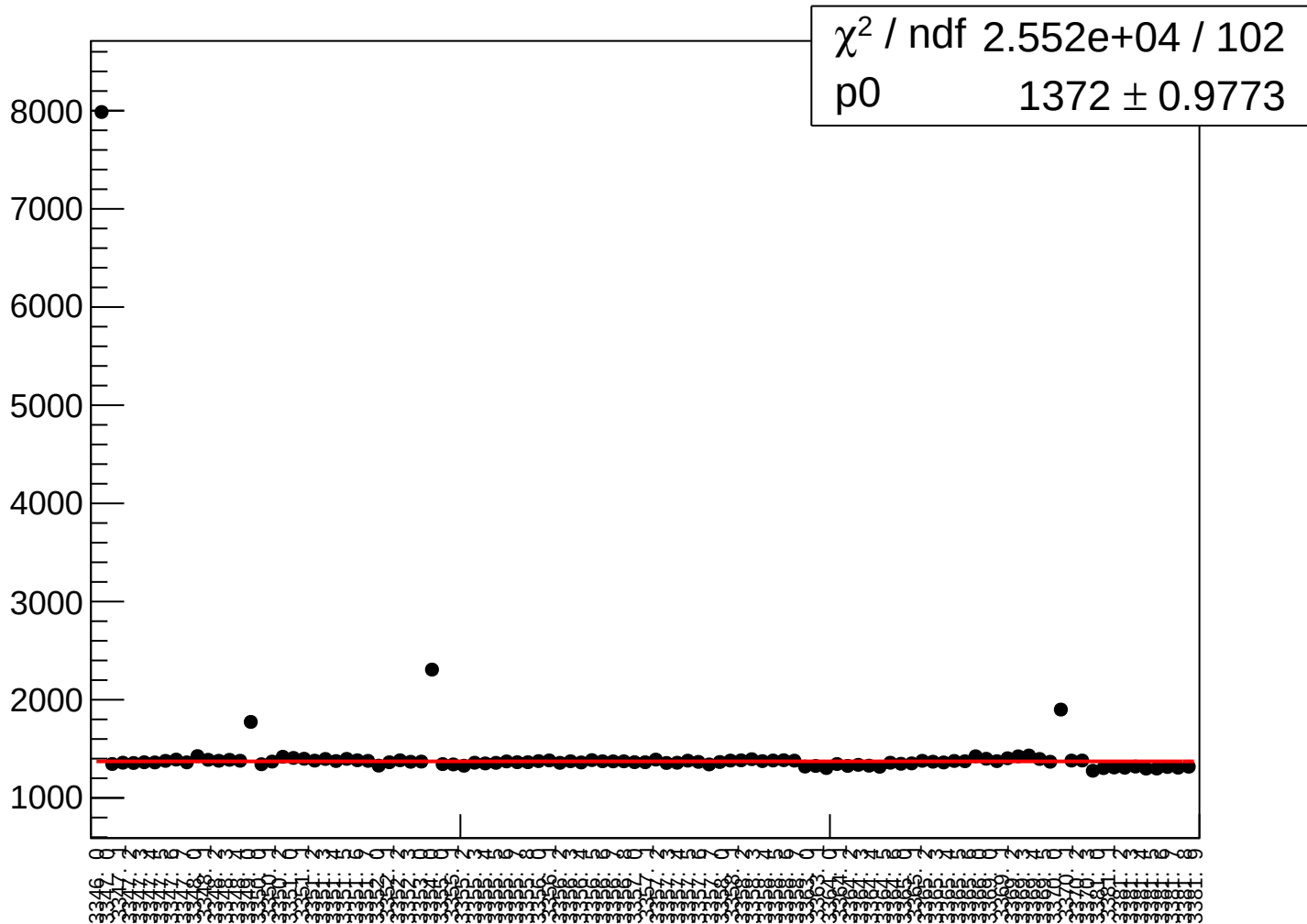
cor_sam3_rms vs run



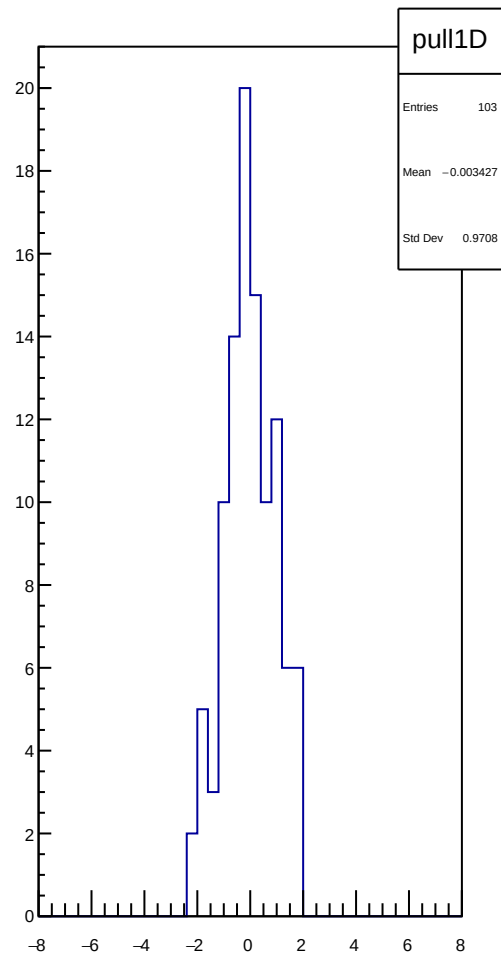
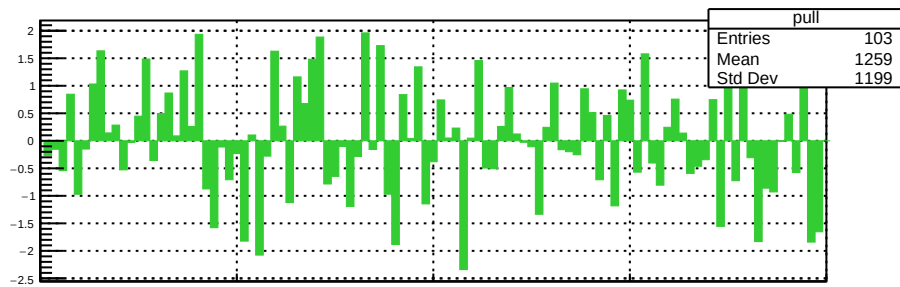
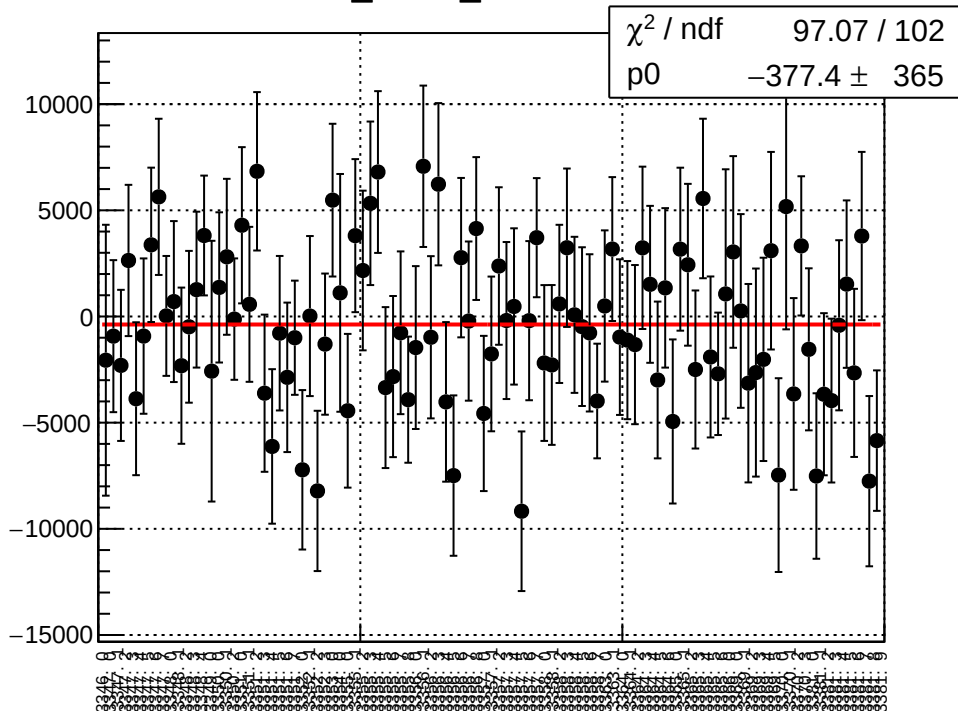
cor_sam4_mean vs run



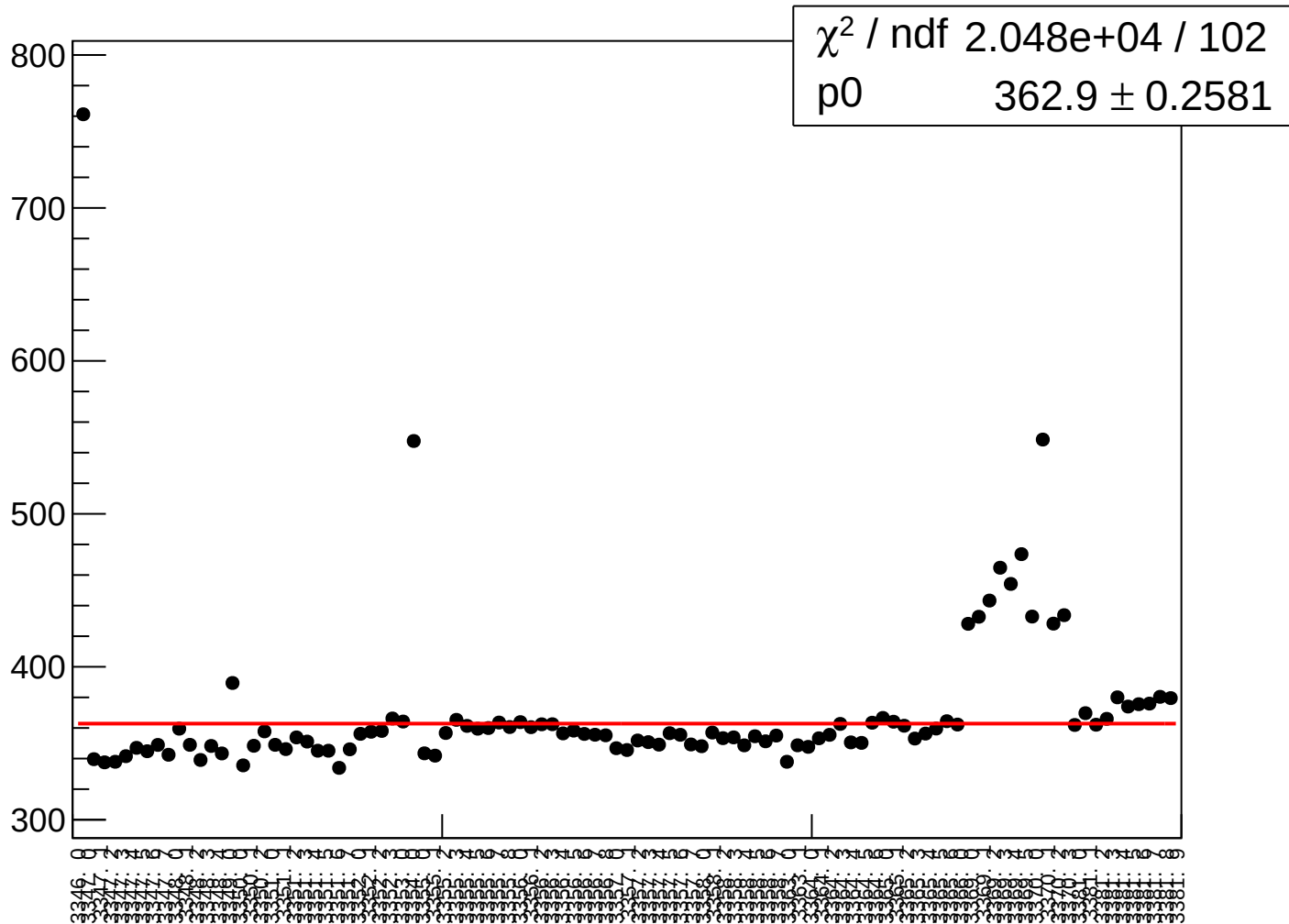
cor_sam4_rms vs run



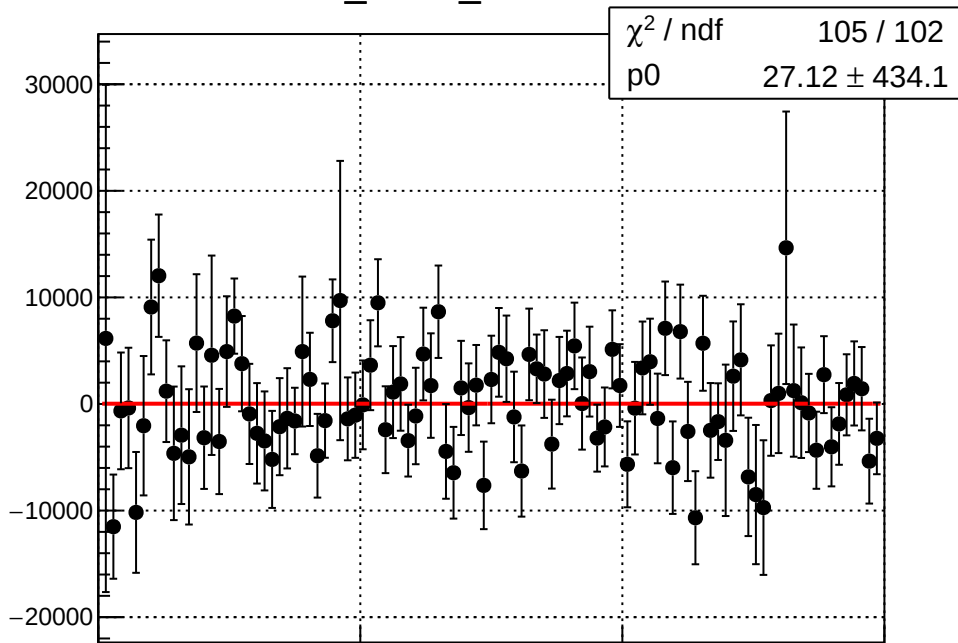
cor_sam5_mean vs run



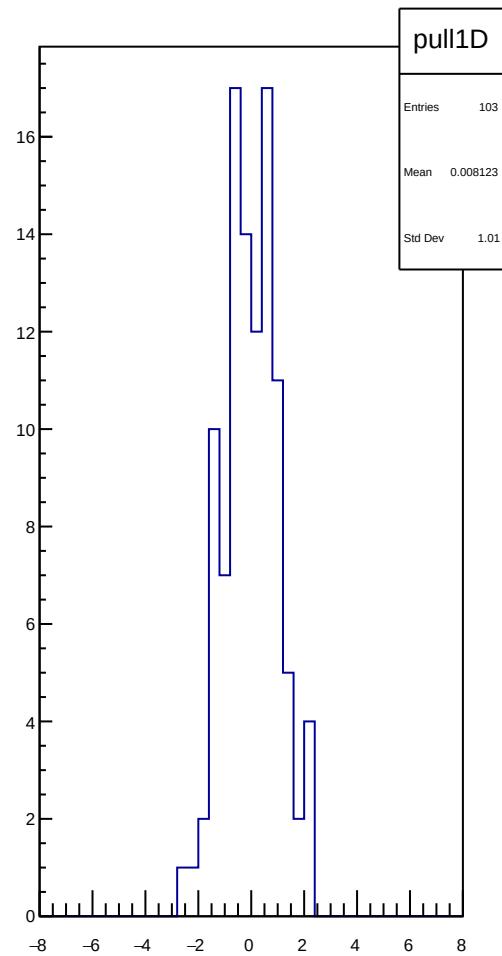
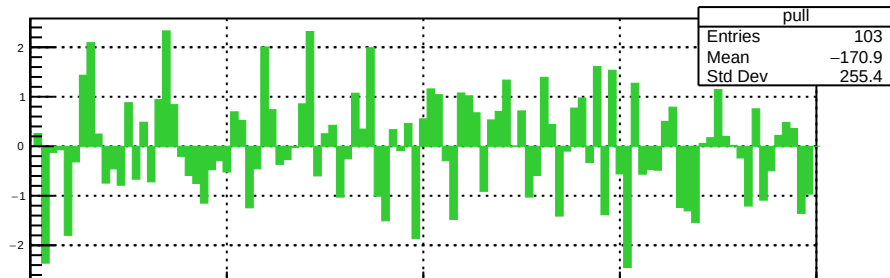
cor_sam5_rms vs run



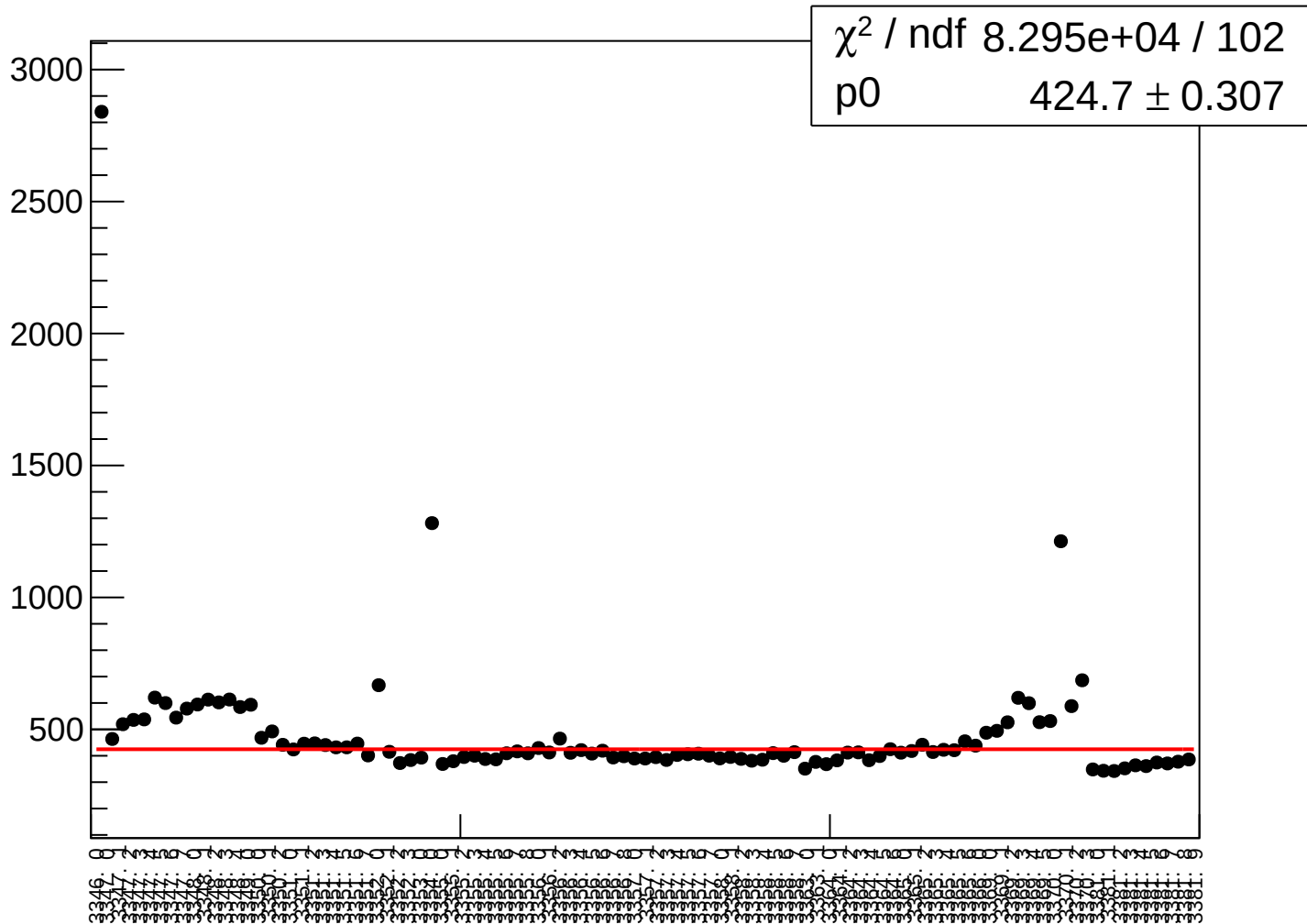
cor_sam6_mean vs run



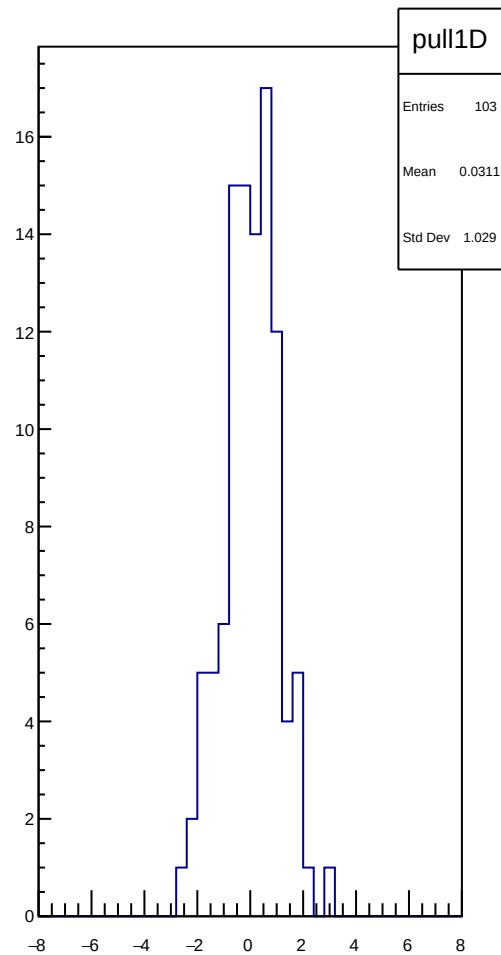
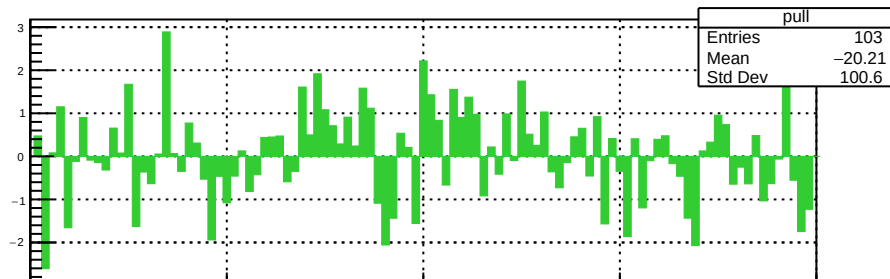
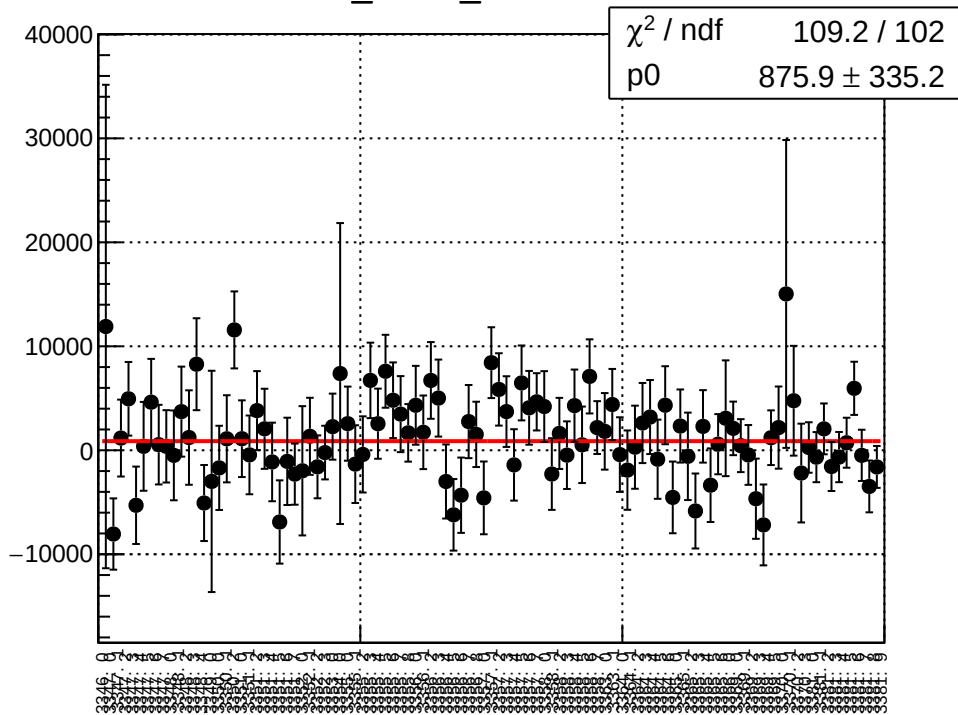
Correlation Coefficient (CC) vs Run



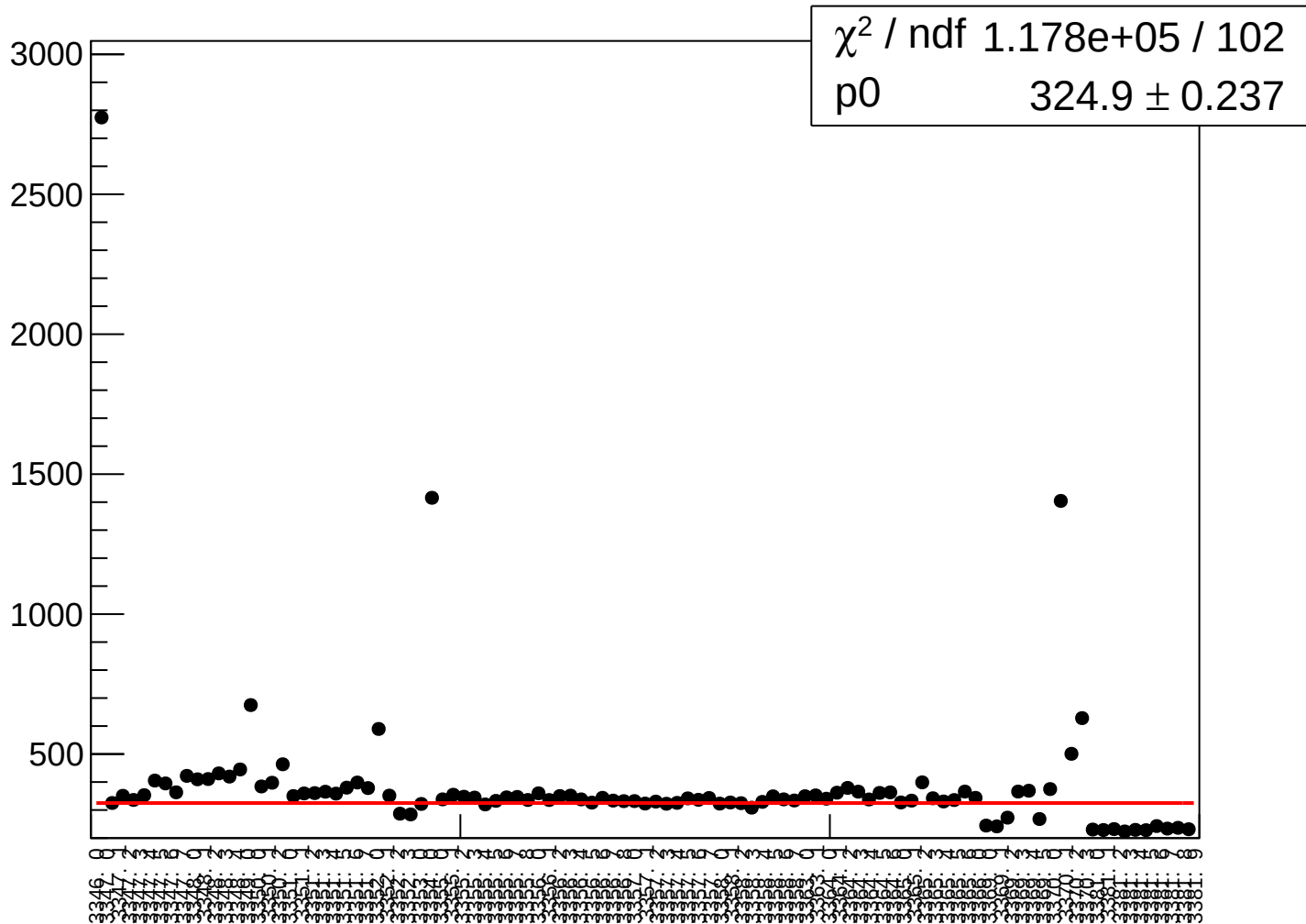
cor_sam6_rms vs run



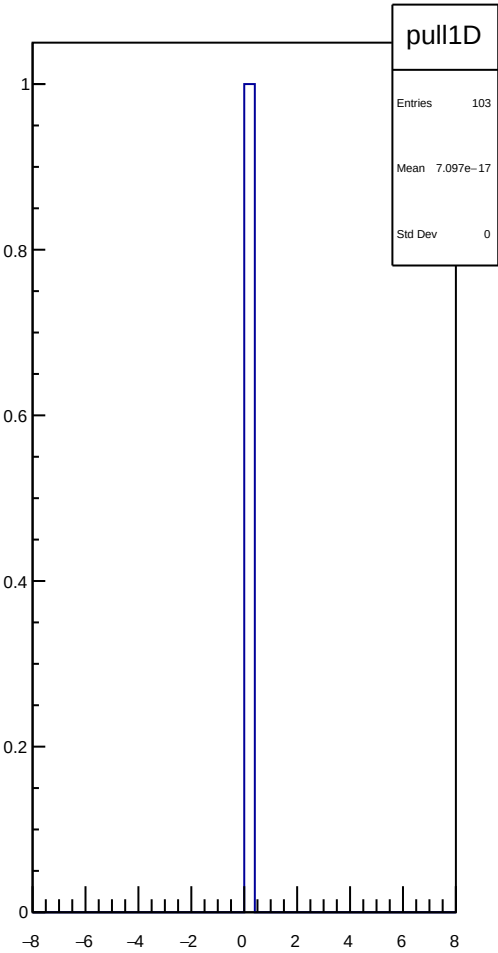
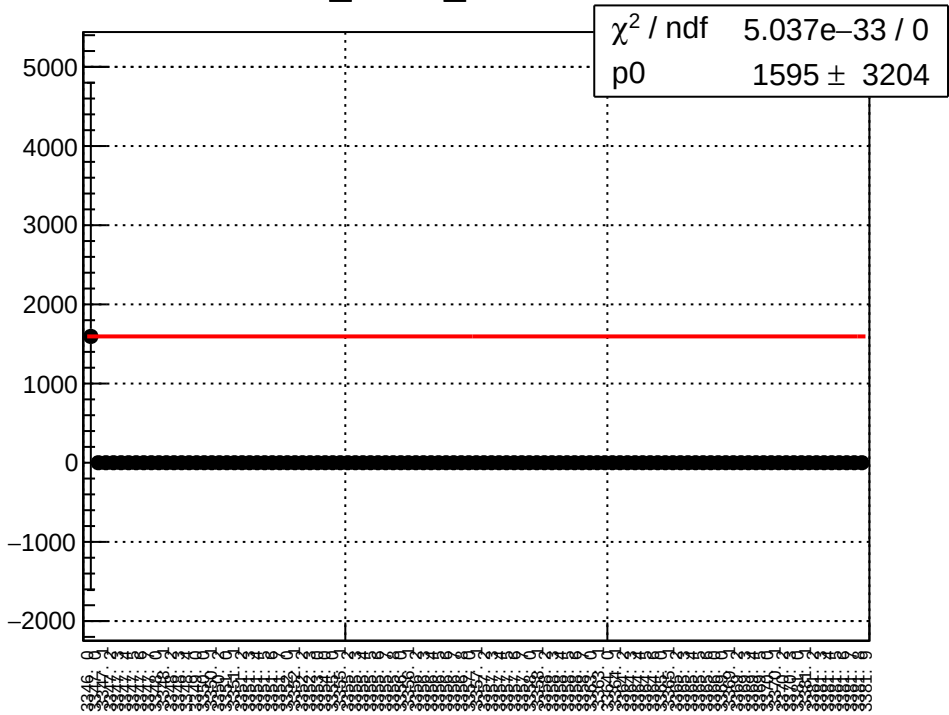
cor_sam7_mean vs run



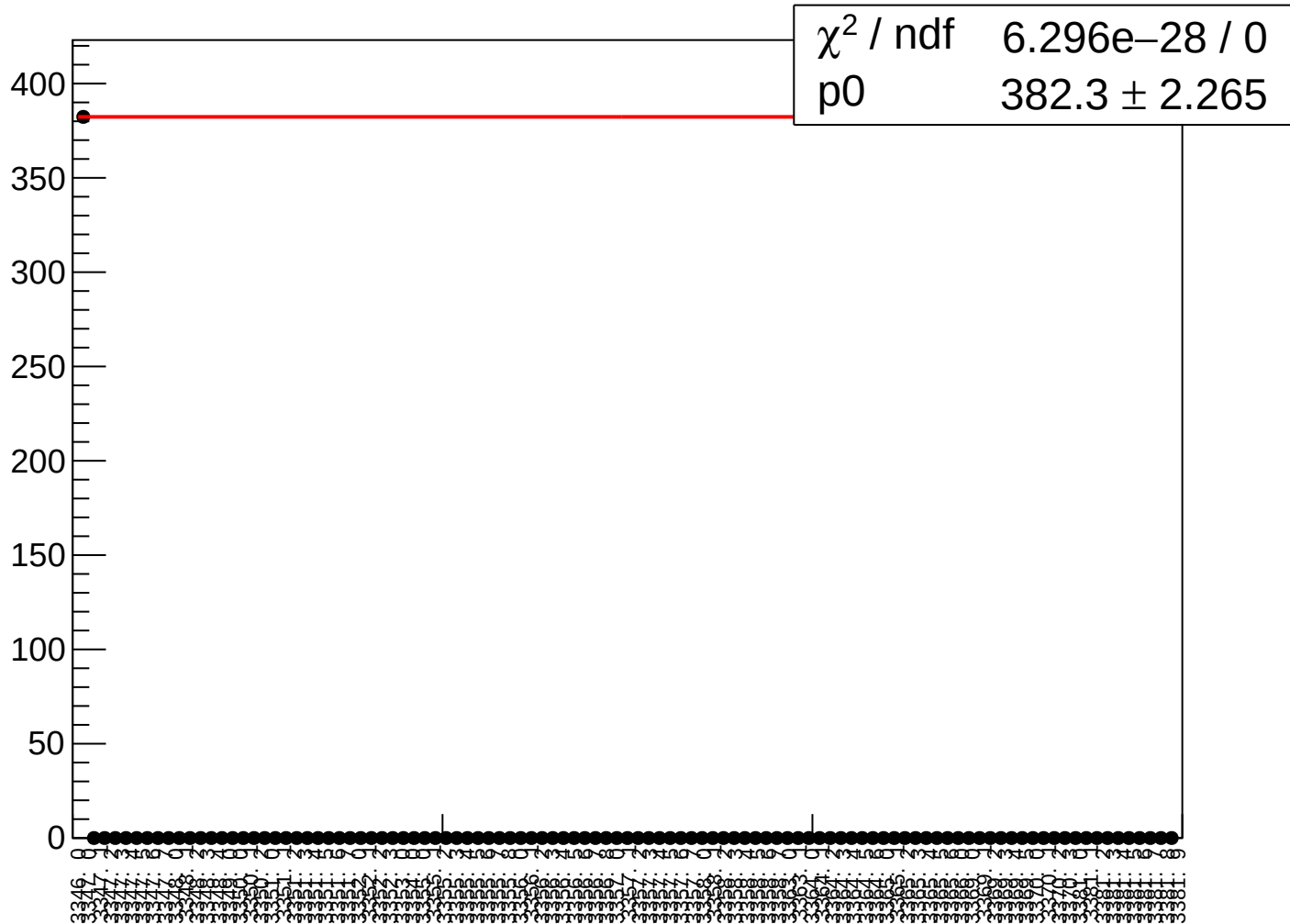
cor_sam7_rms vs run



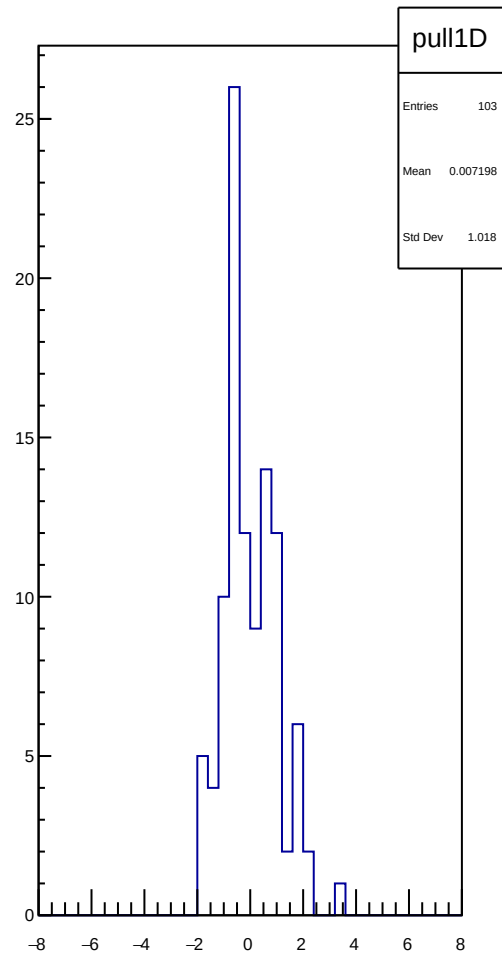
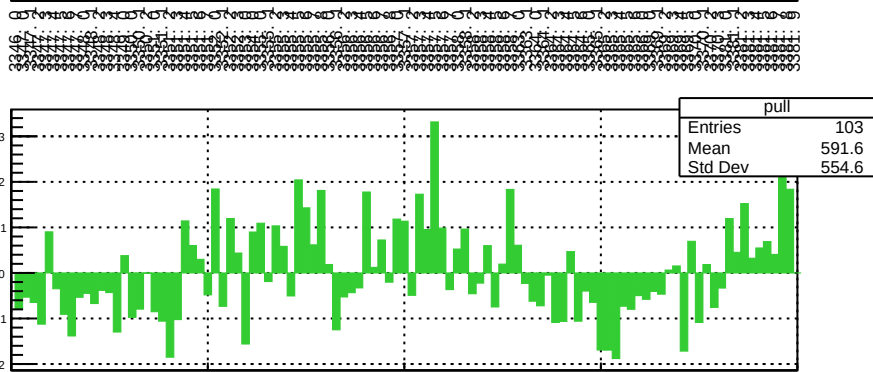
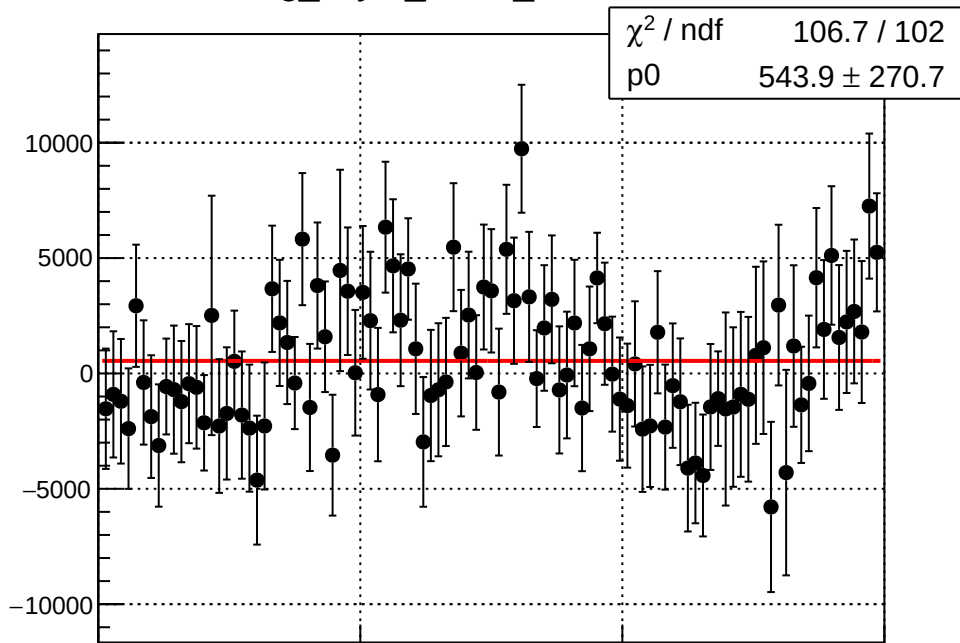
cor_sam8_mean vs run



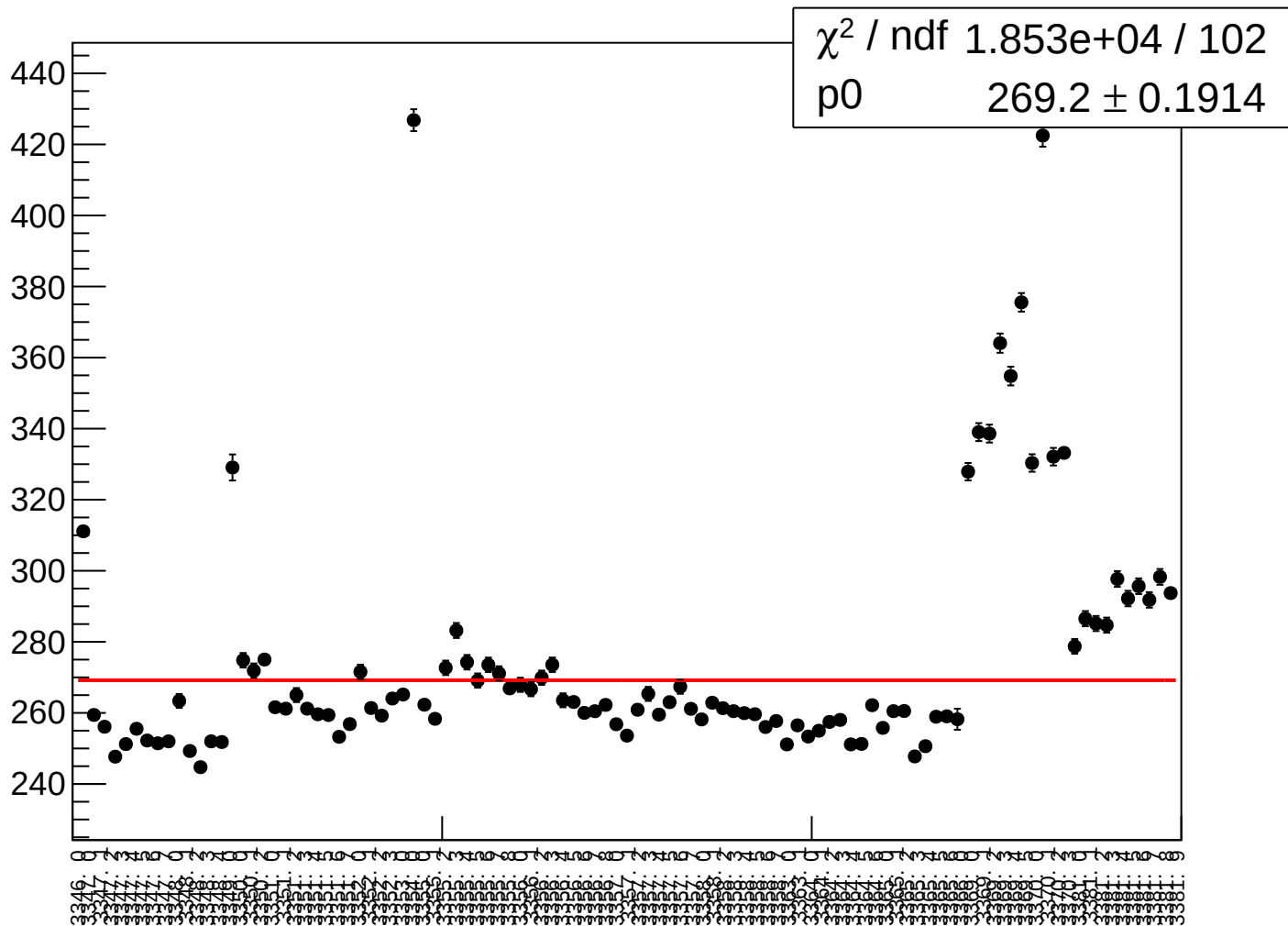
cor_sam8_rms vs run



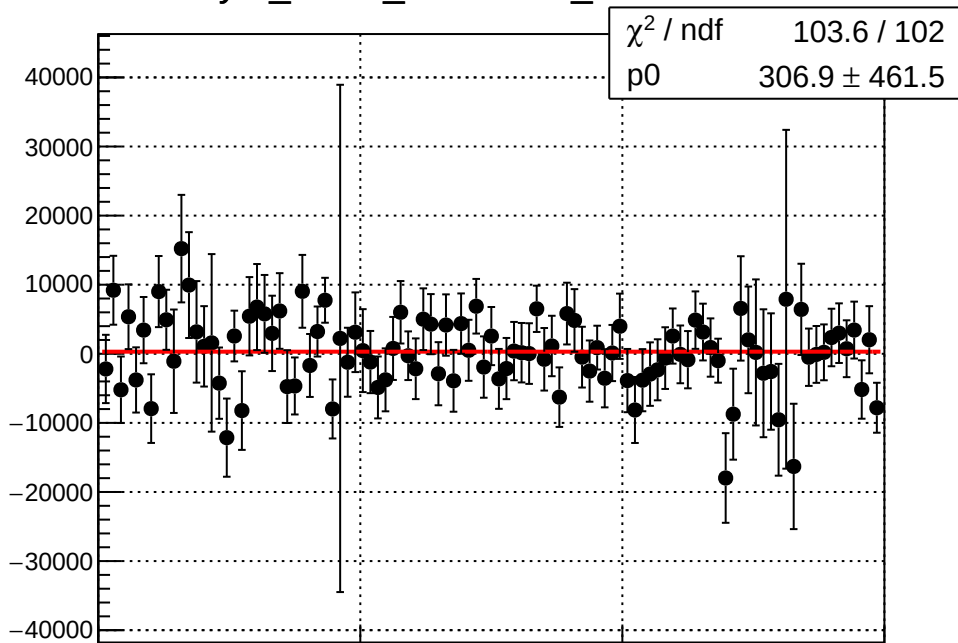
reg_asym_sam1_mean vs run



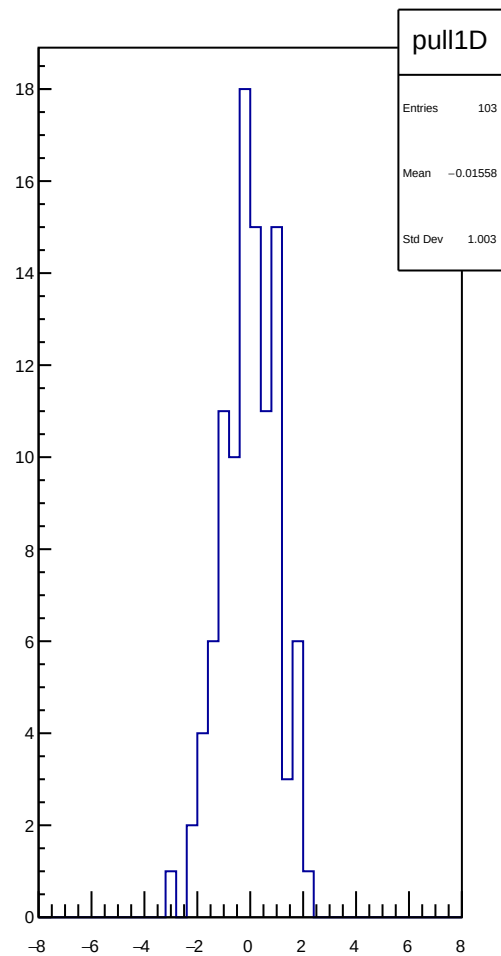
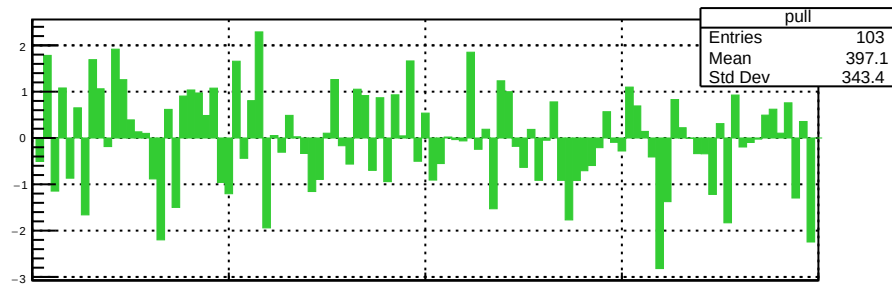
reg_asym_sam1_rms vs run



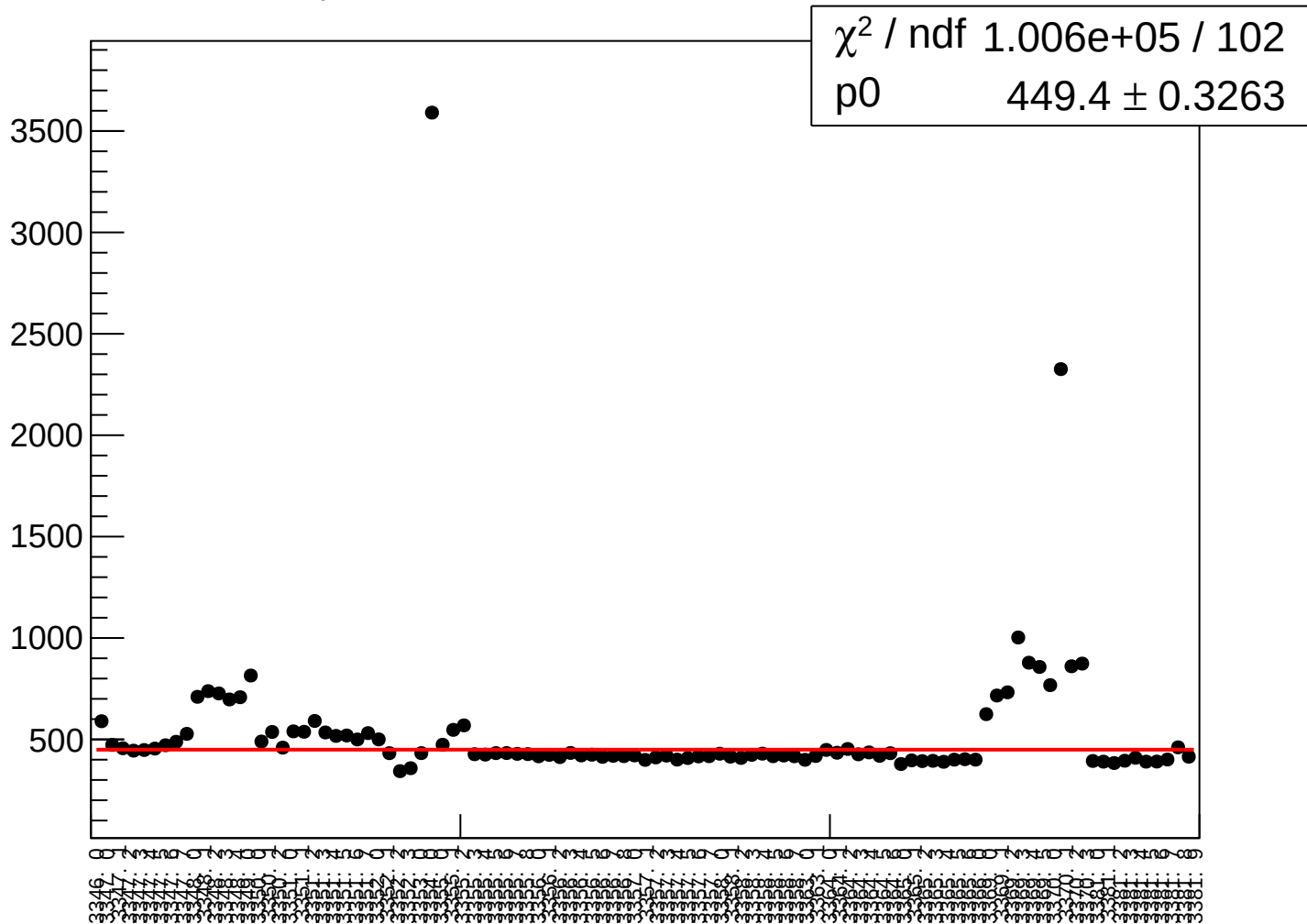
asym_sam1_correction_mean vs run



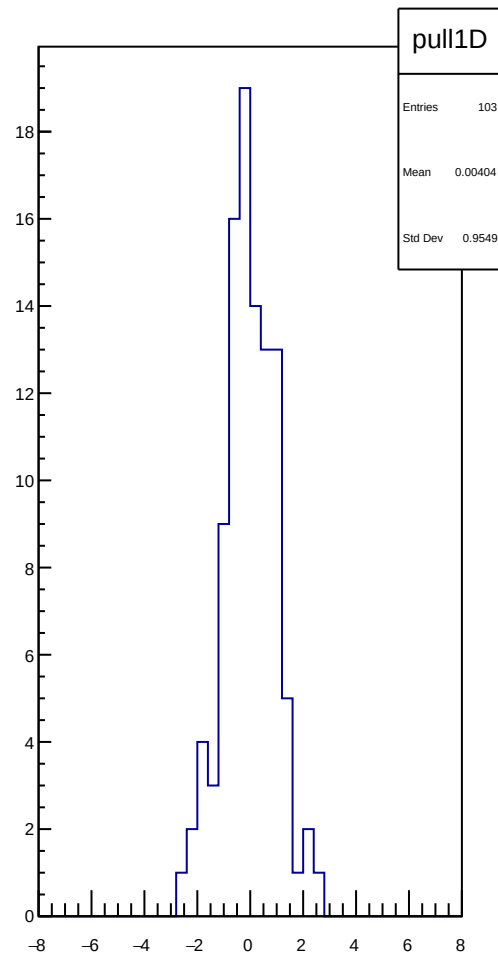
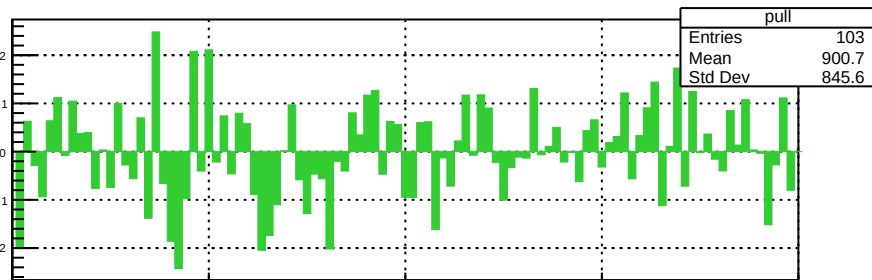
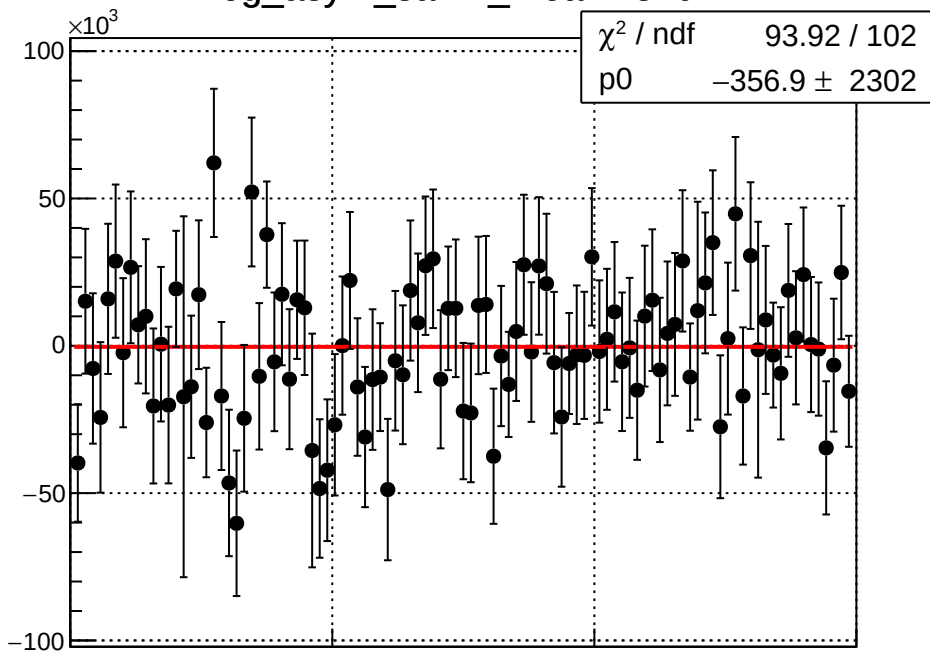
This plot shows the distribution of the pull values for the fit parameters. The y-axis represents the pull value, ranging from -3 to 2. The x-axis represents the run number. The pull values are shown as green vertical bars, indicating the distribution of the pull values across the different runs.



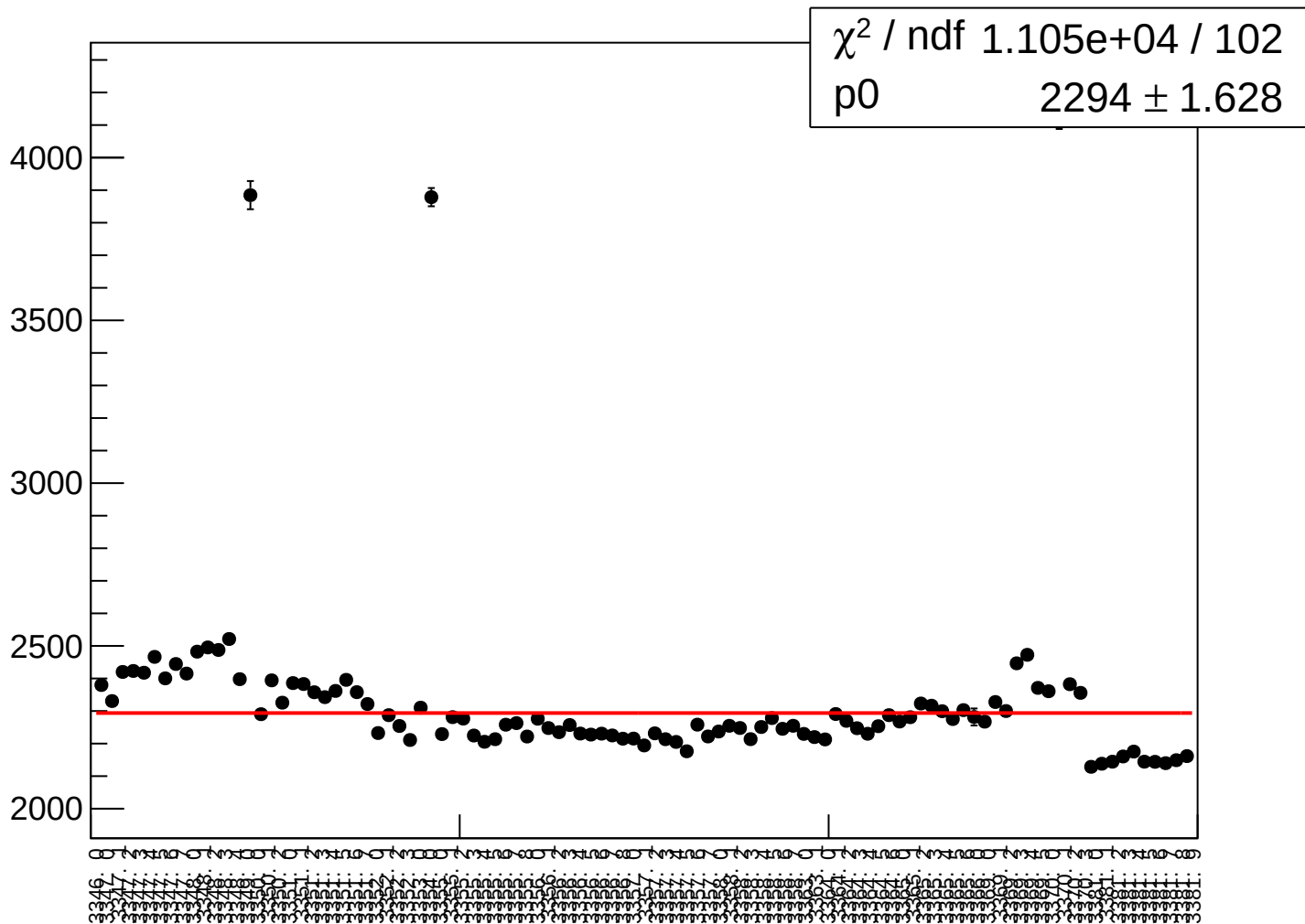
asym_sam1_correction_rms vs run



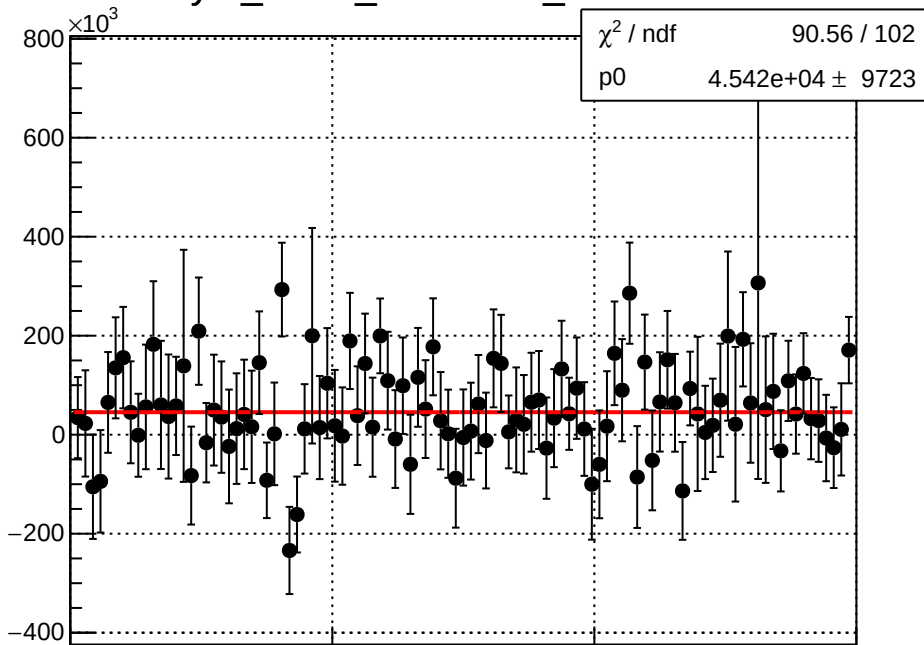
reg_asym_sam2_mean vs run



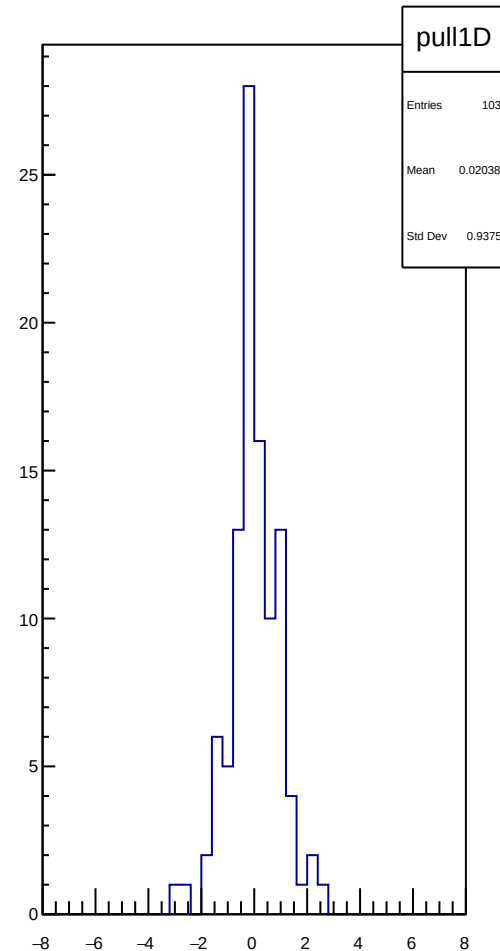
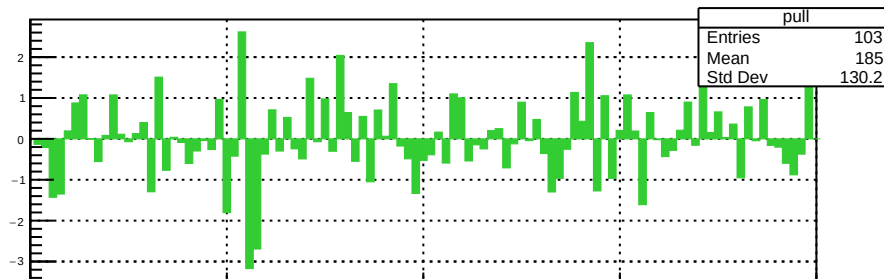
reg_asym_sam2_rms vs run



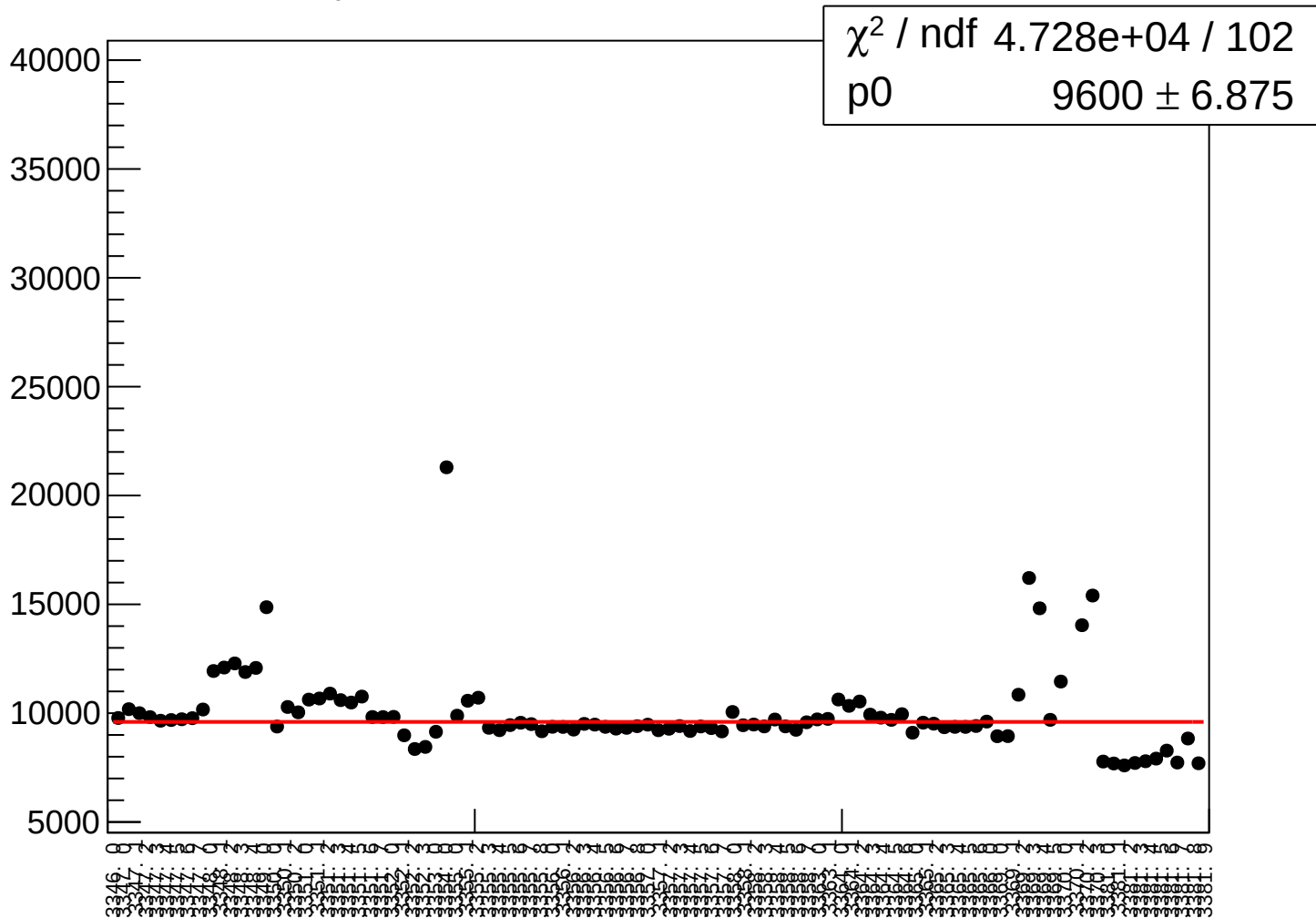
asym_sam2_correction_mean vs run



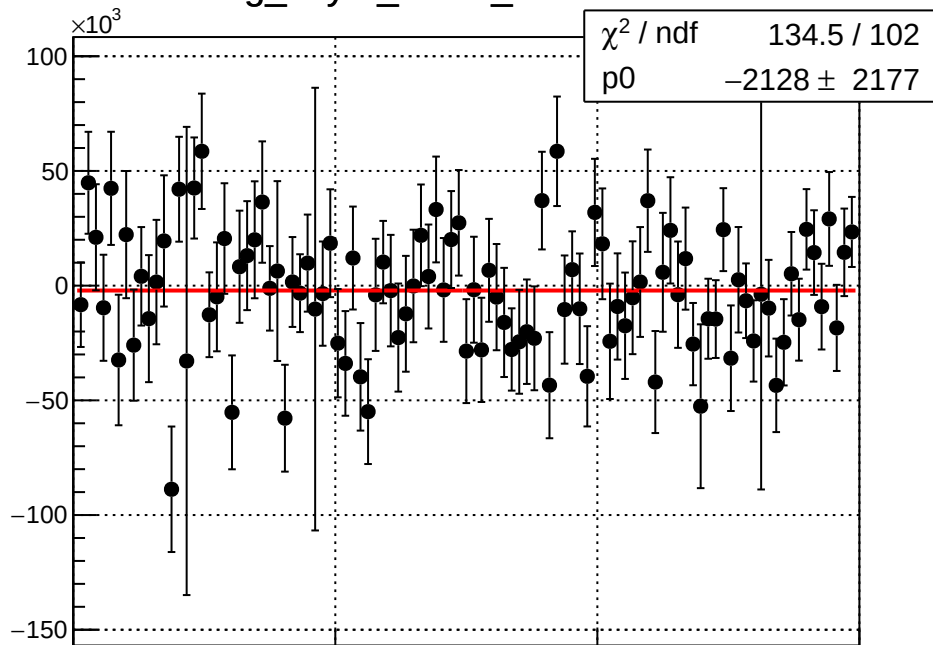
The plot shows the asym_sam2_correction_mean (y-axis, scaled by $\times 10^3$) versus run (x-axis). The data points are black circles with vertical error bars. A red line represents the fit. The y-axis ranges from -400 to 800, and the x-axis ranges from 0 to 1000.



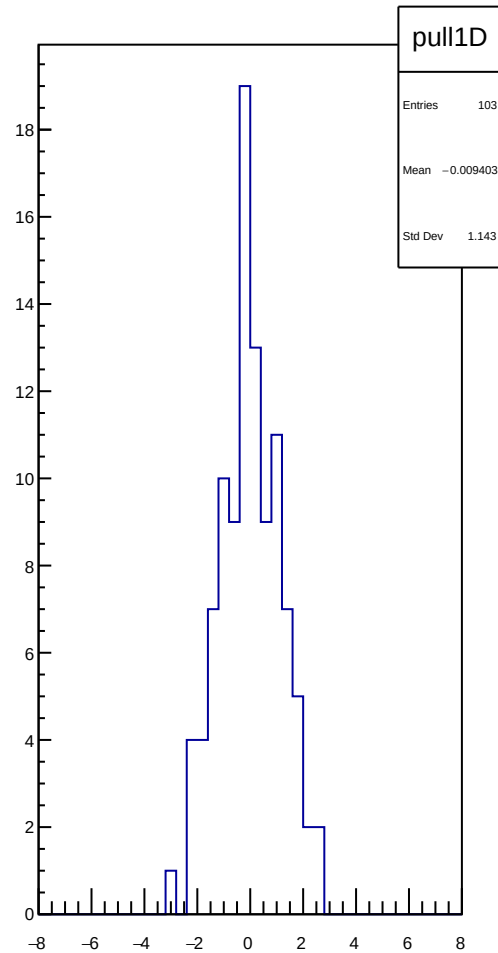
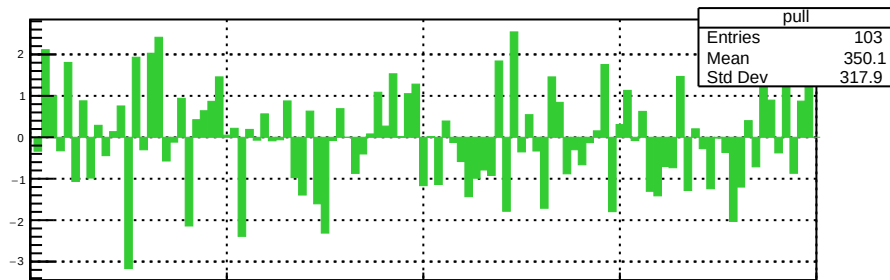
asym_sam2_correction_rms vs run



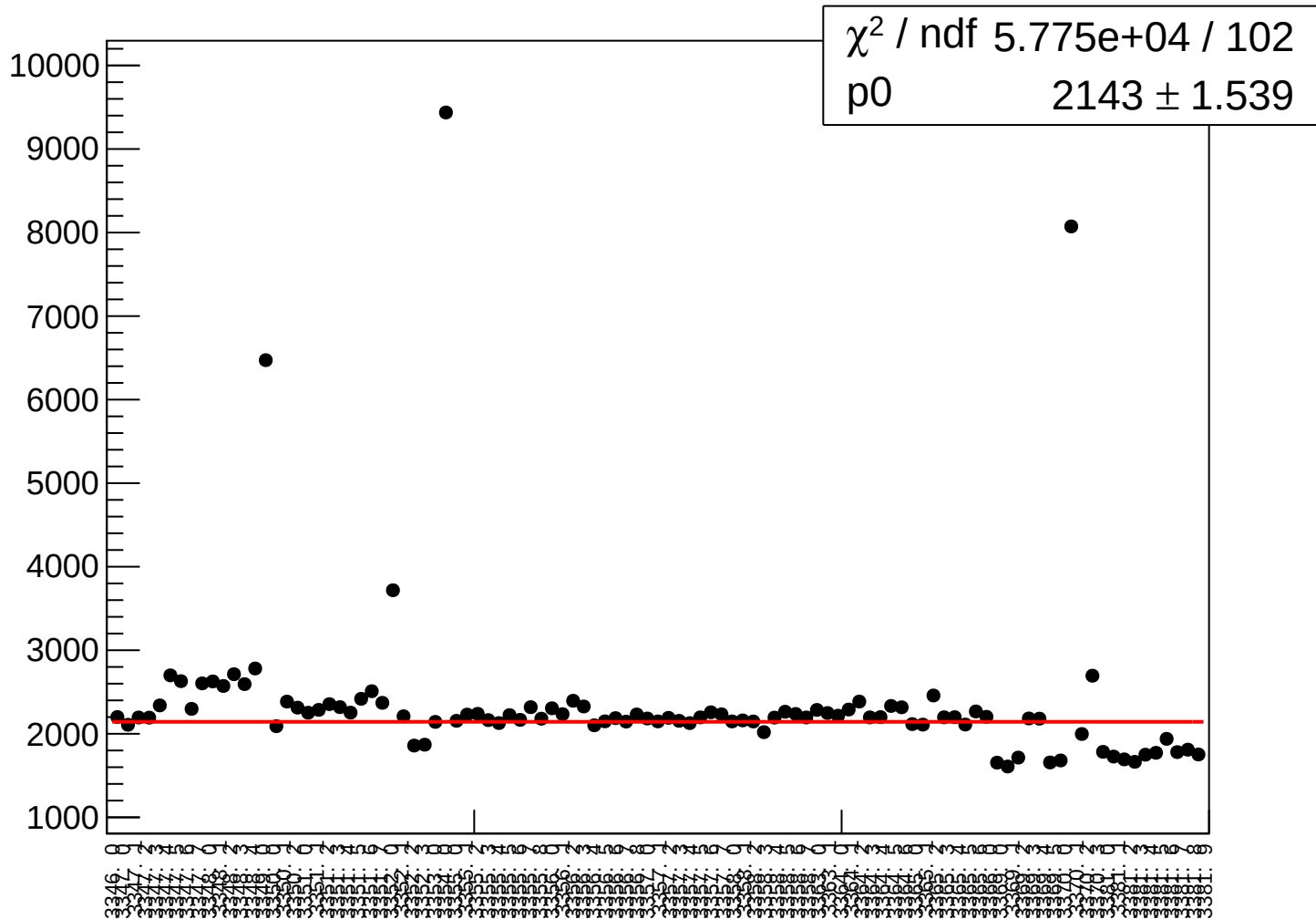
reg_asym_sam3_mean vs run



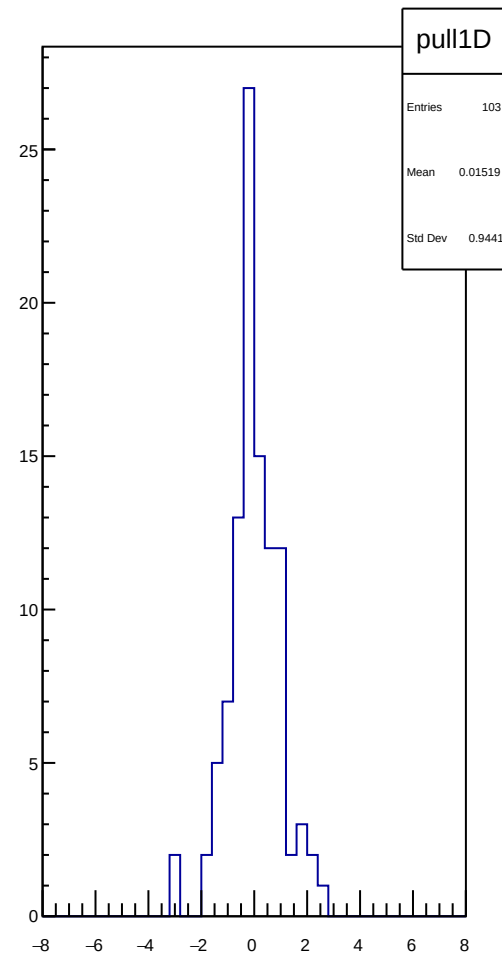
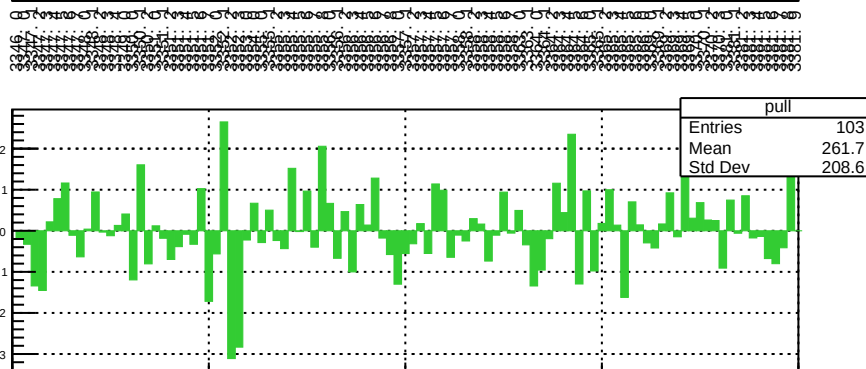
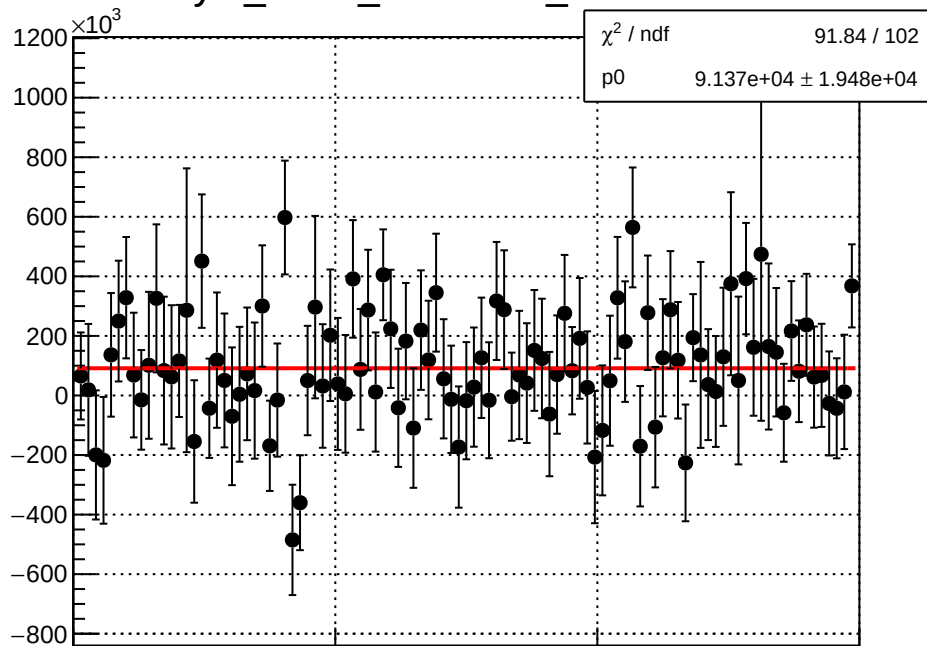
run



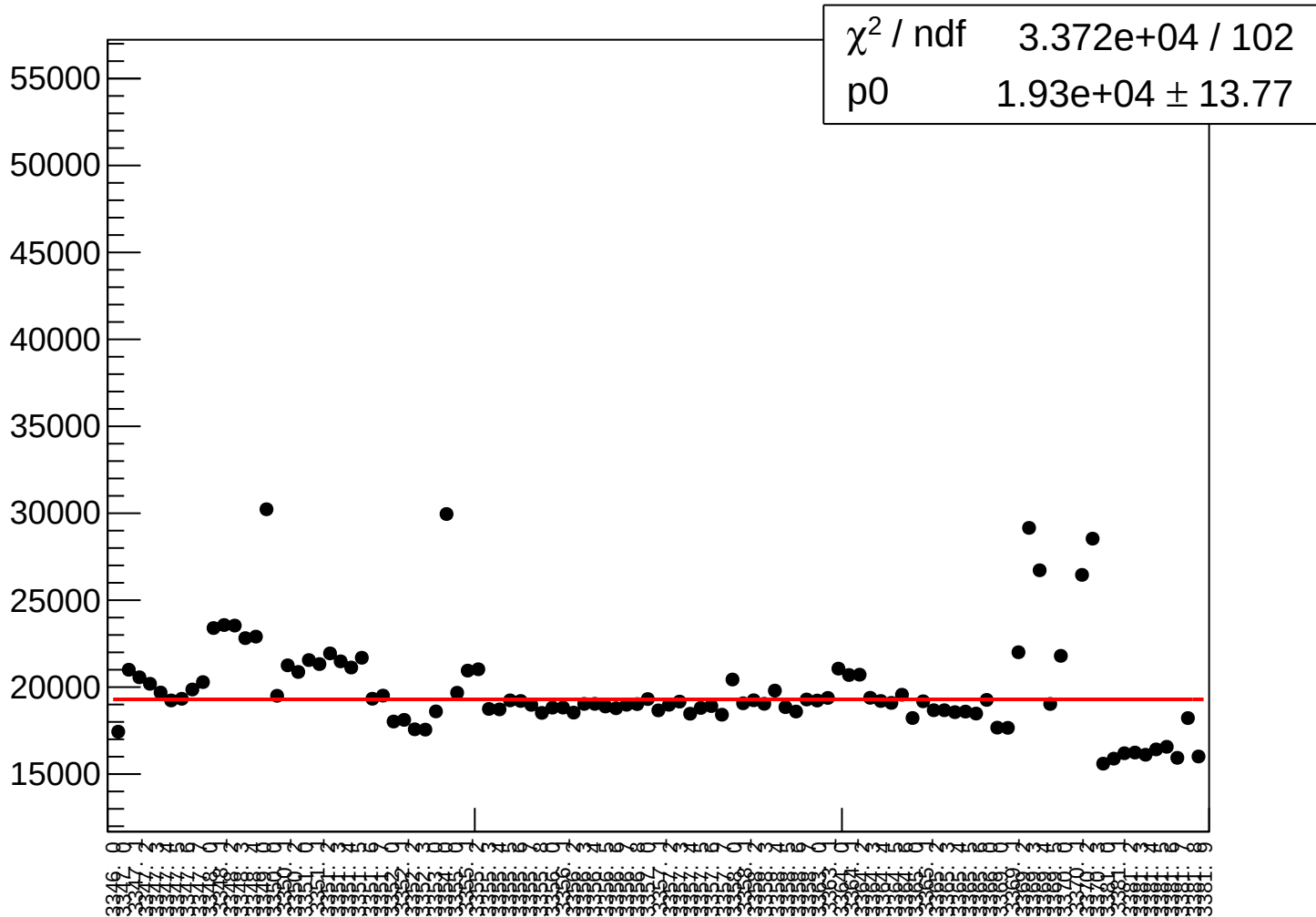
reg_asym_sam3_rms vs run



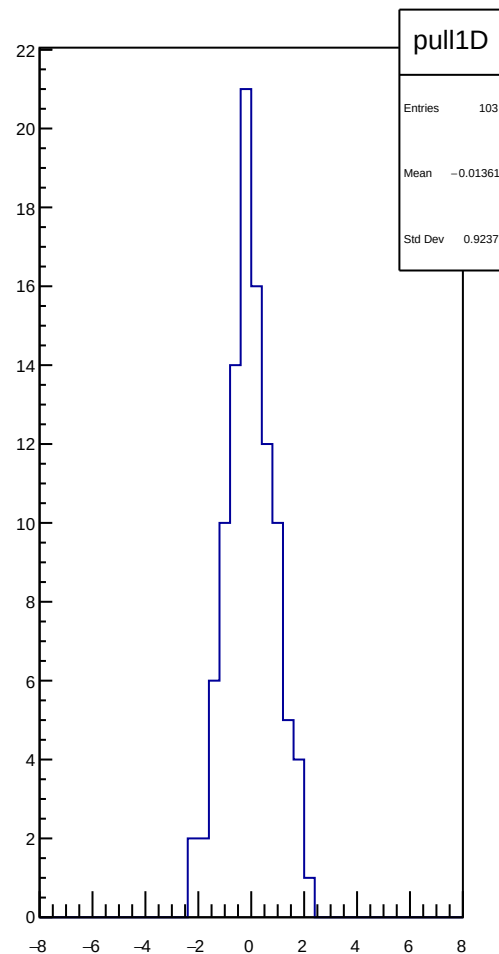
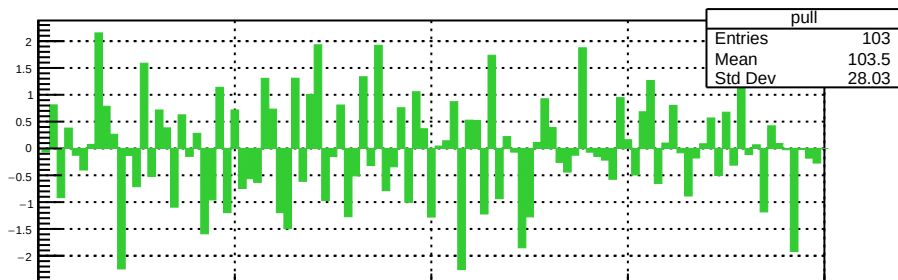
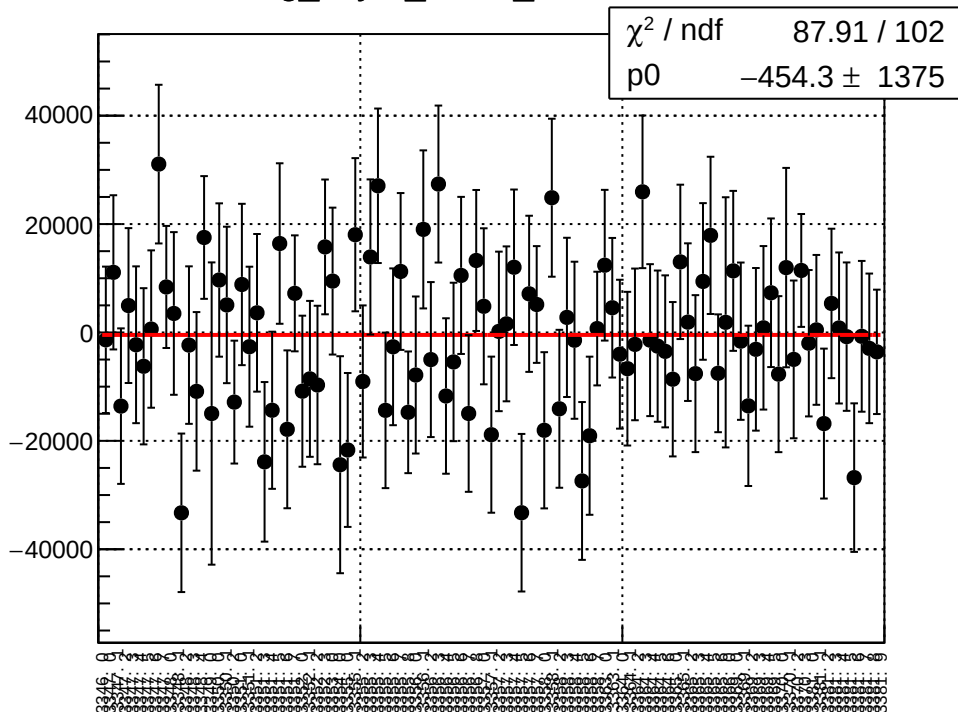
asym_sam3_correction_mean vs run



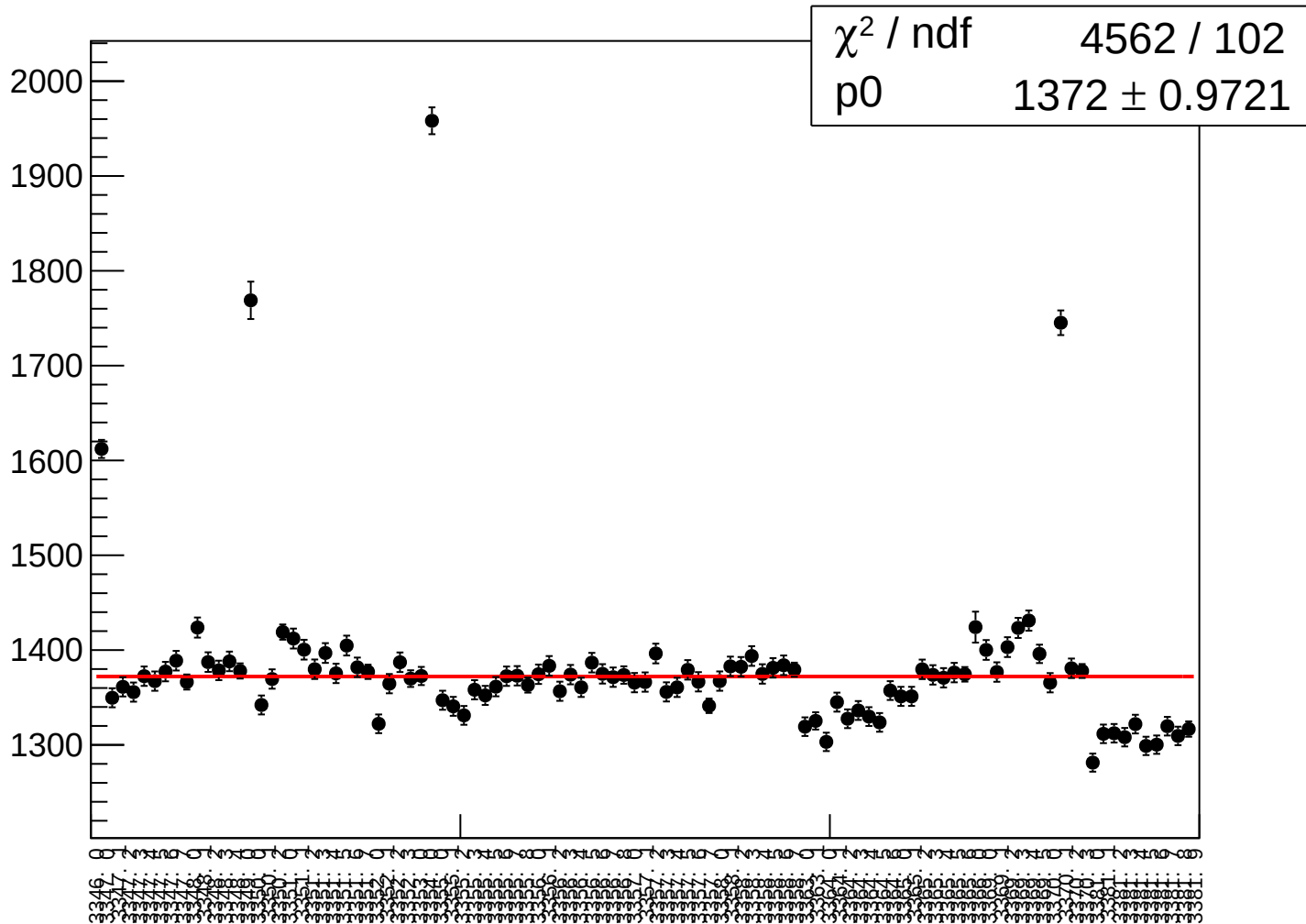
asym_sam3_correction_rms vs run



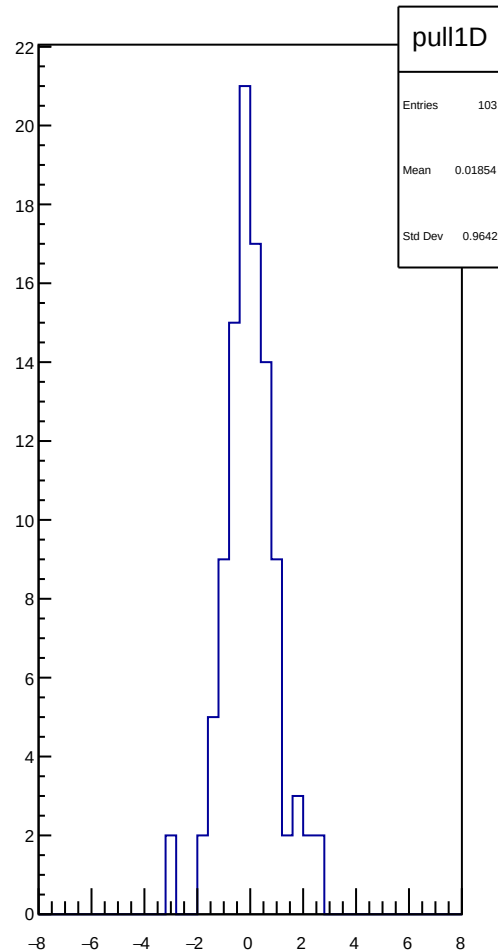
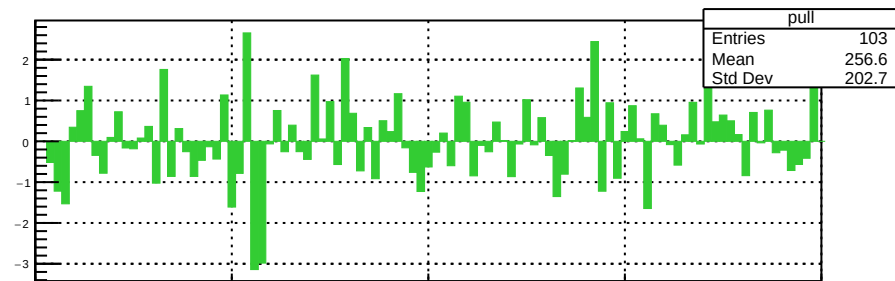
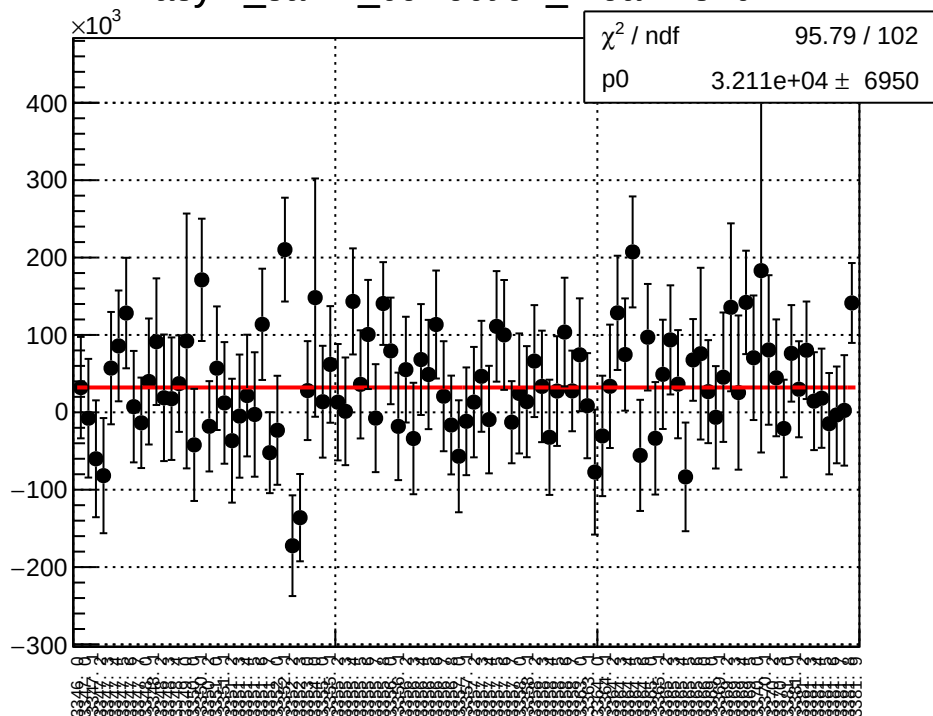
reg_asym_sam4_mean vs run



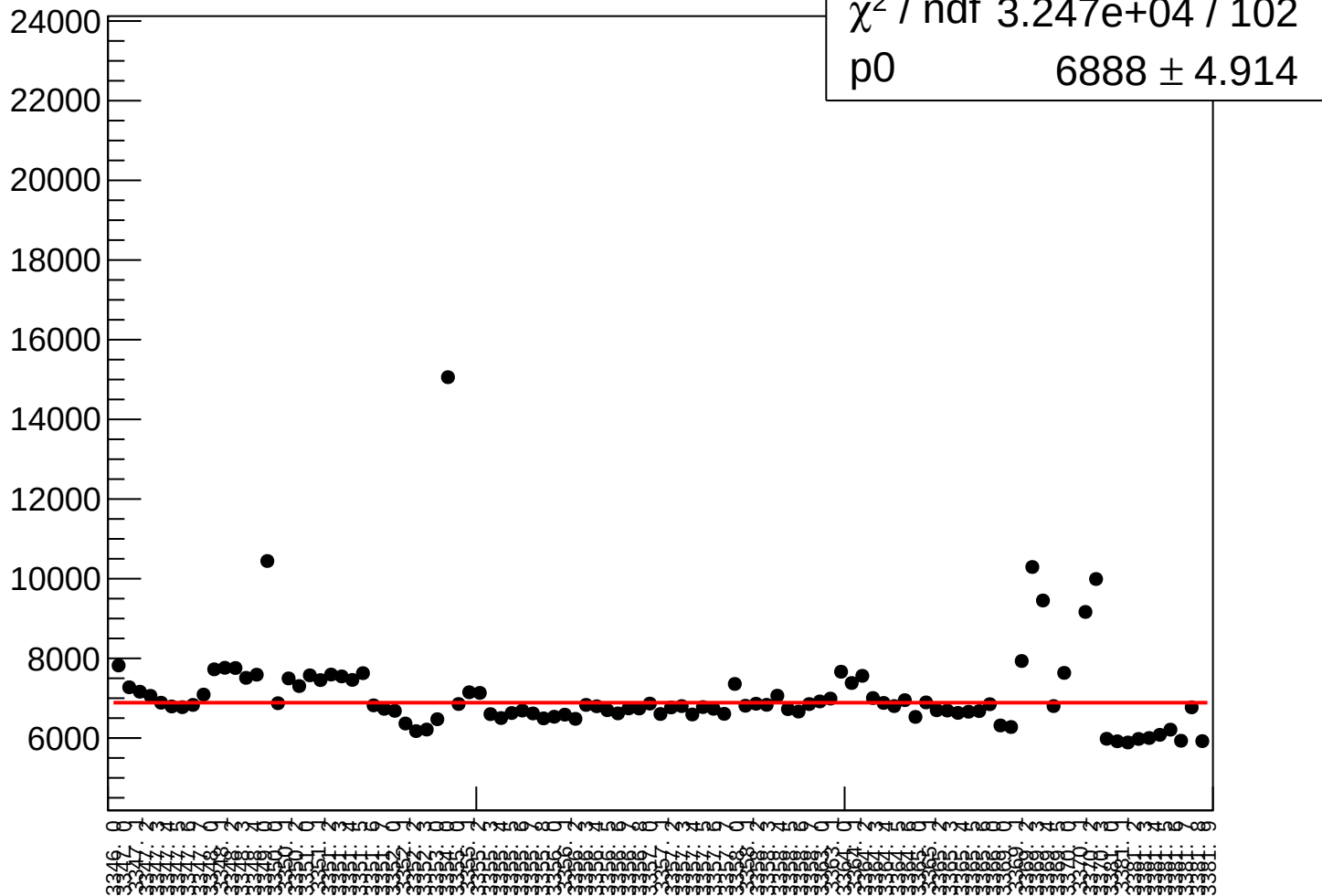
reg_asym_sam4_rms vs run



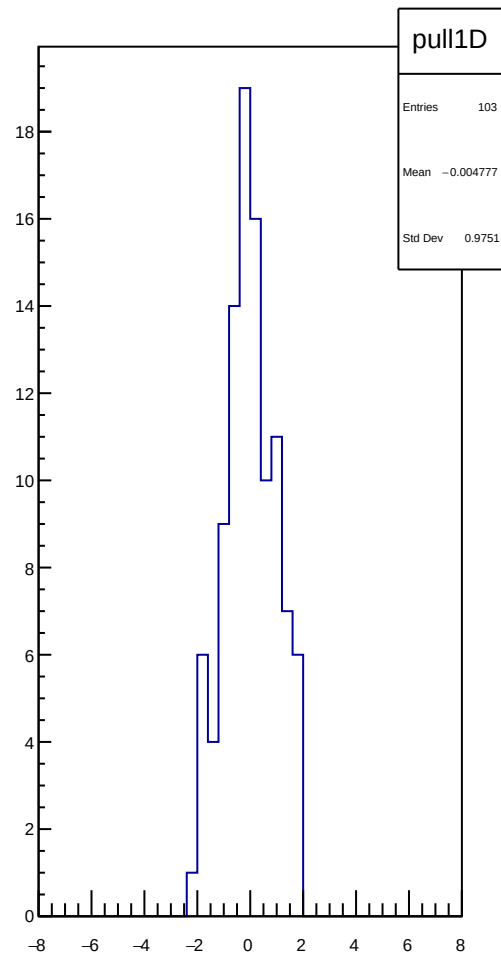
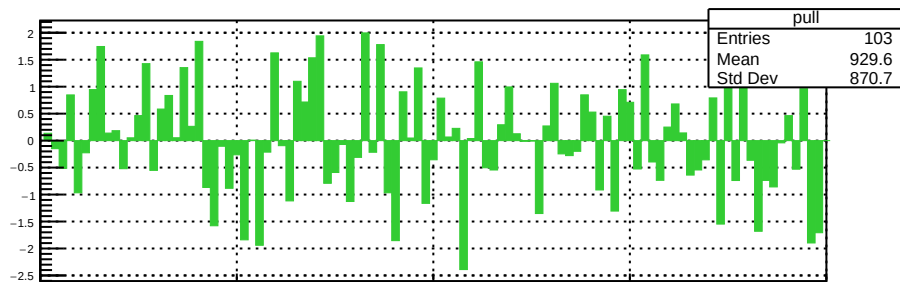
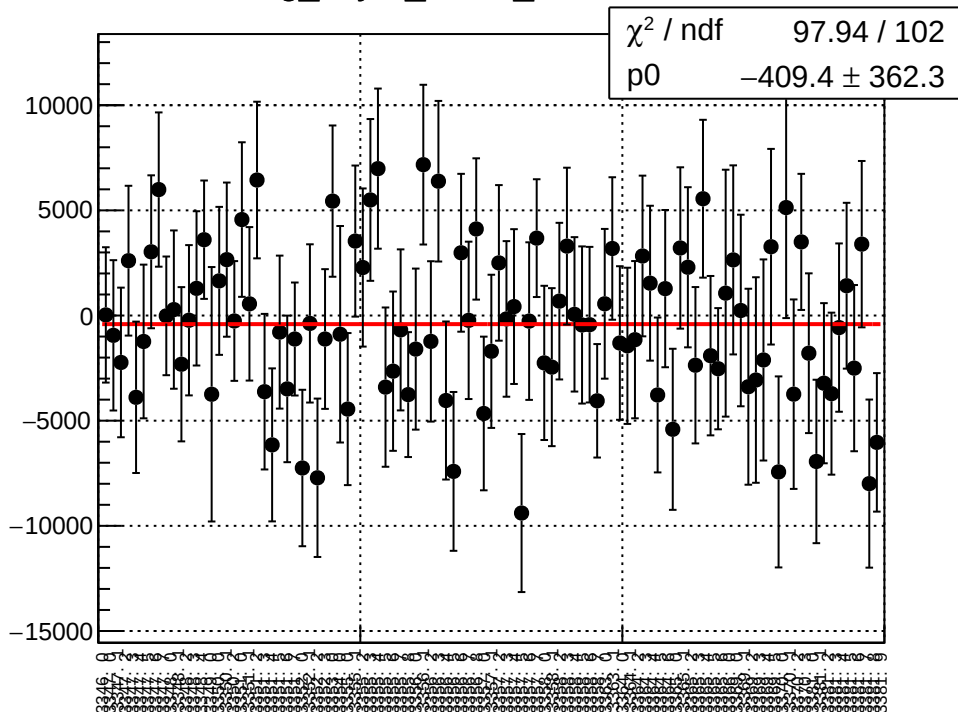
asym_sam4_correction_mean vs run



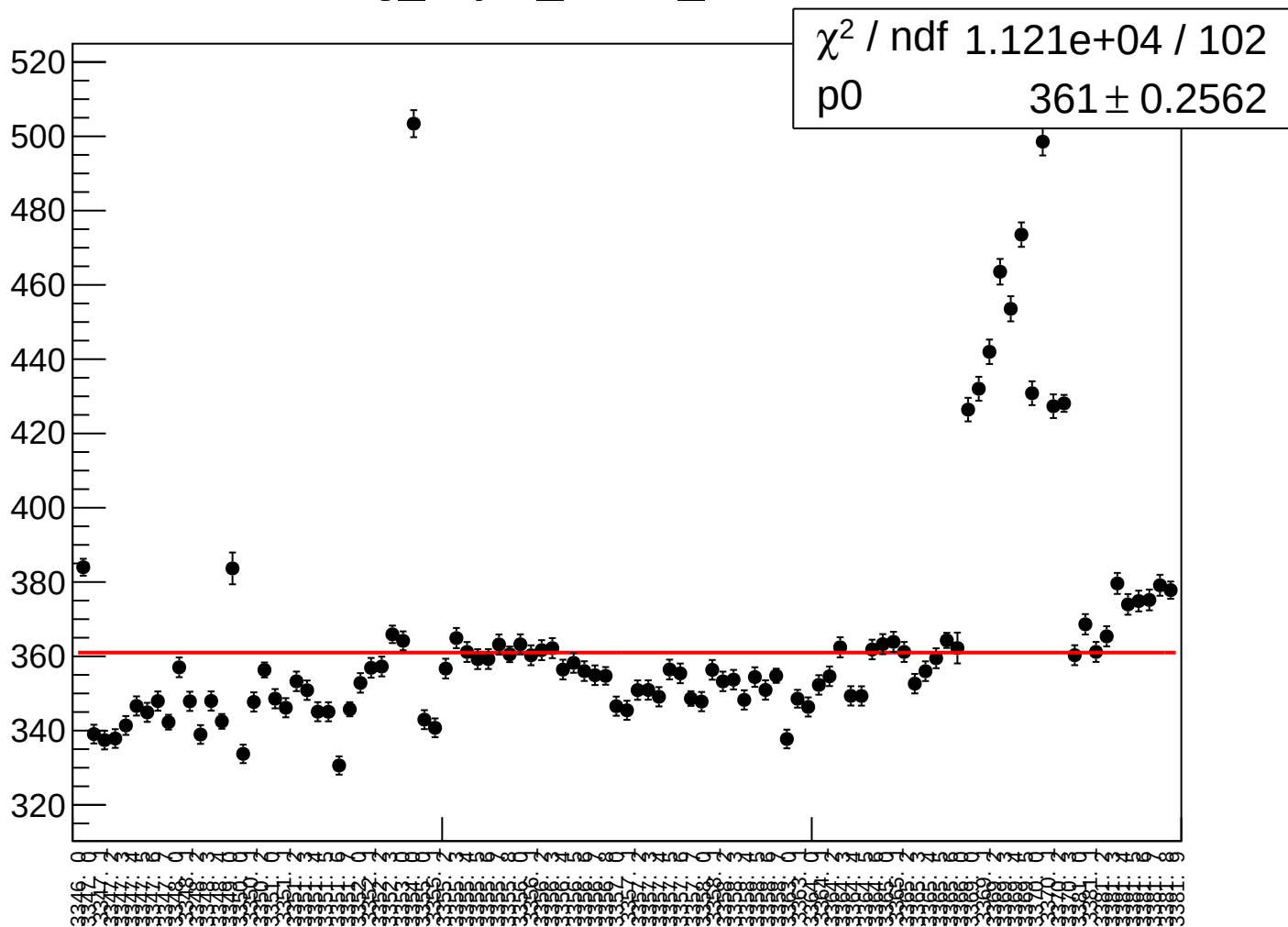
asym_sam4_correction_rms vs run



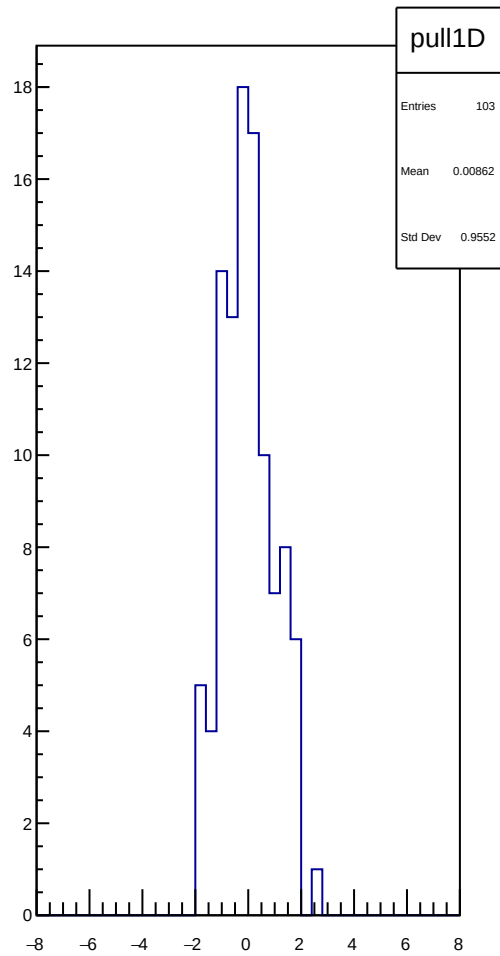
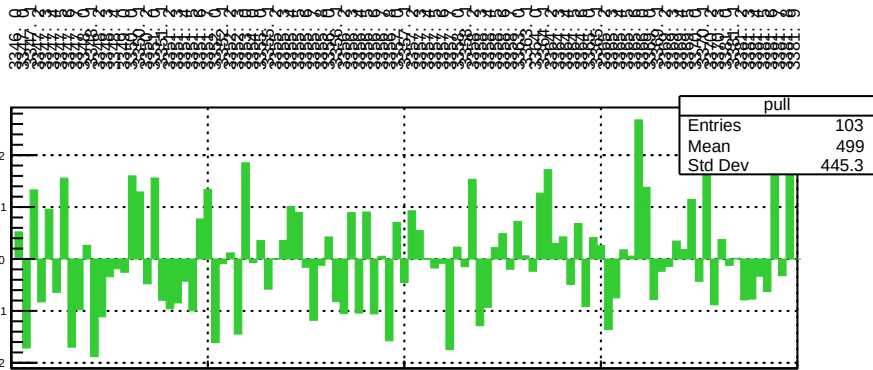
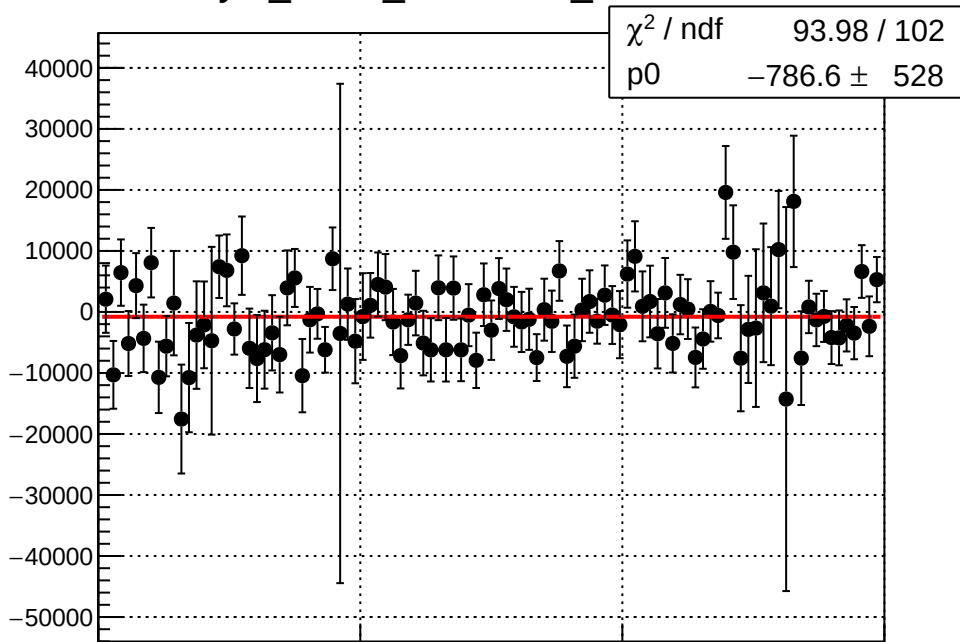
reg_asym_sam5_mean vs run



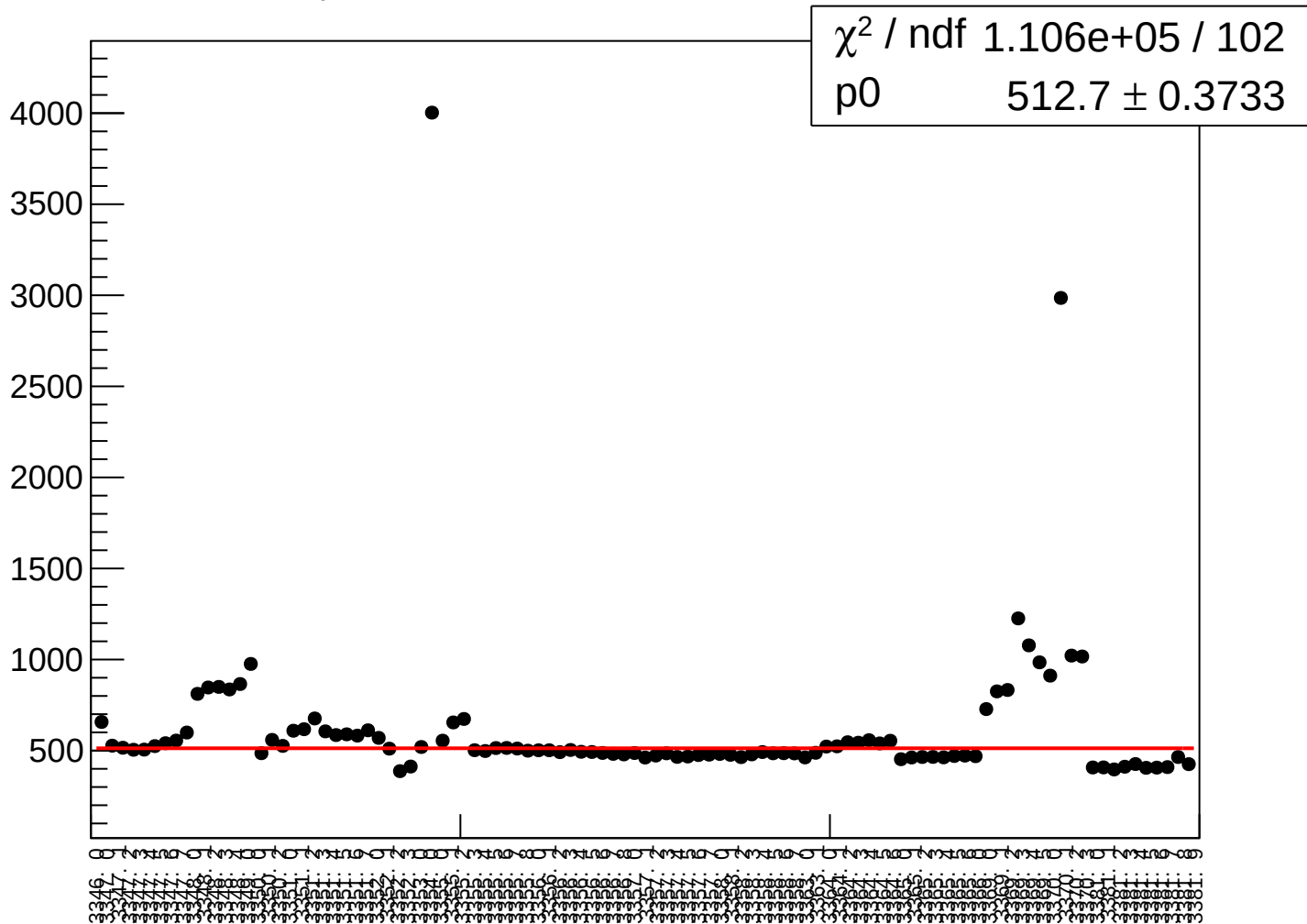
reg_asym_sam5_rms vs run



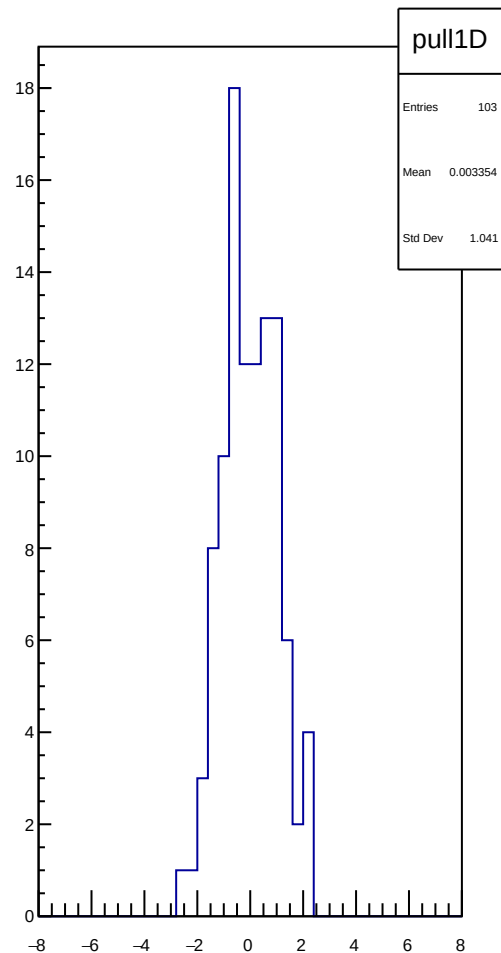
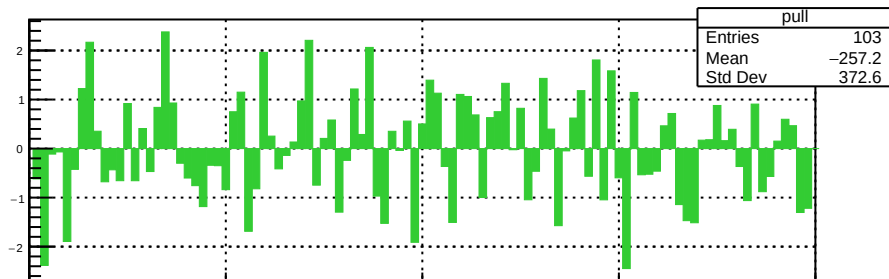
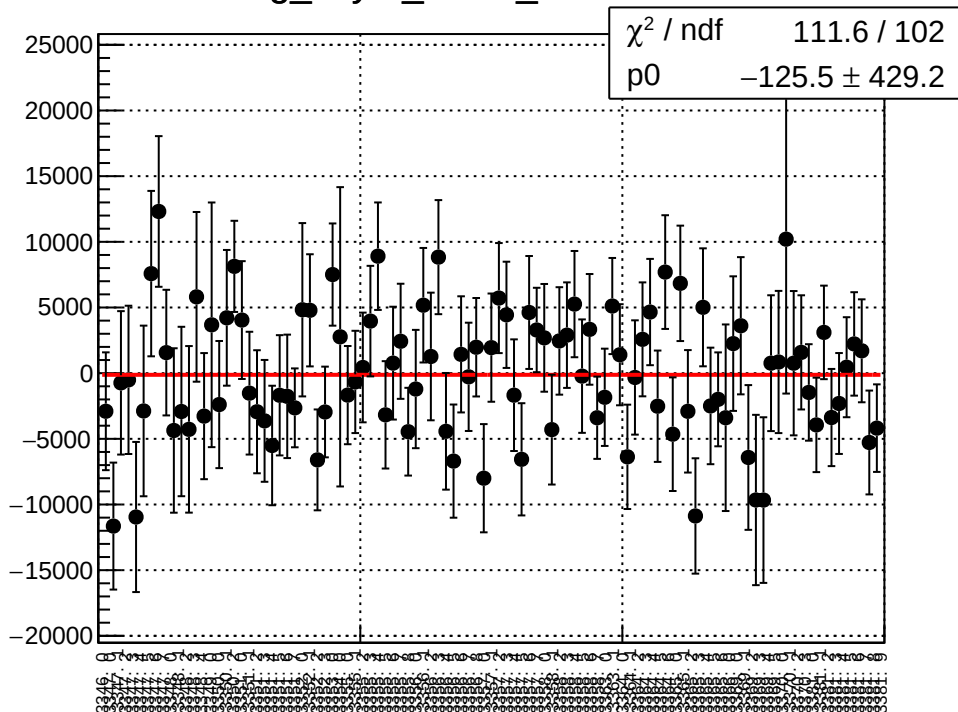
asym_sam5_correction_mean vs run



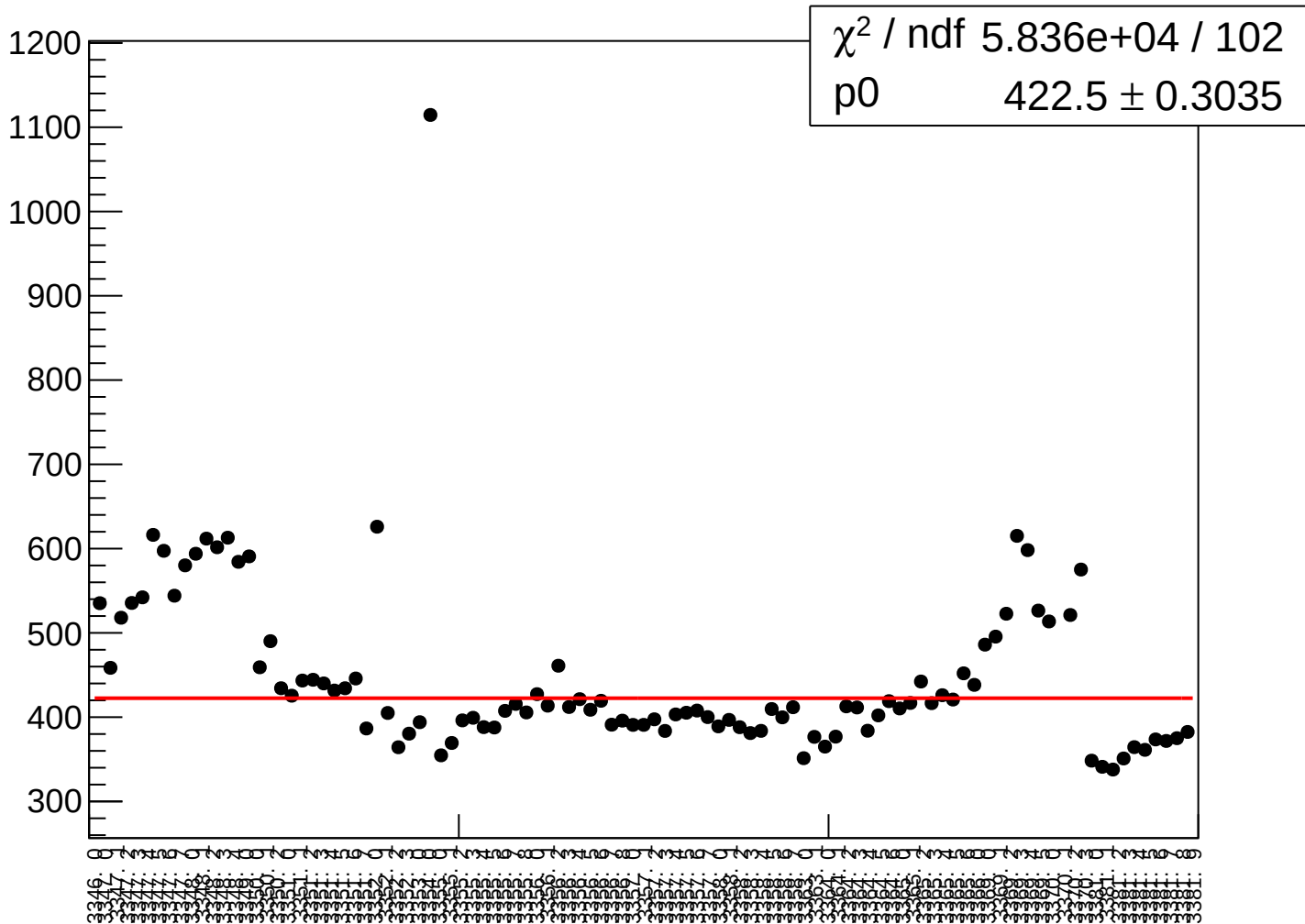
asym_sam5_correction_rms vs run



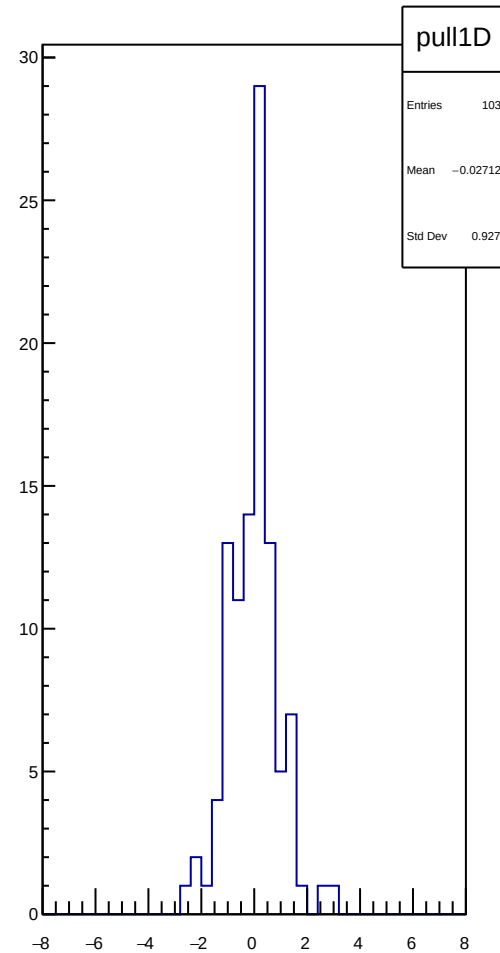
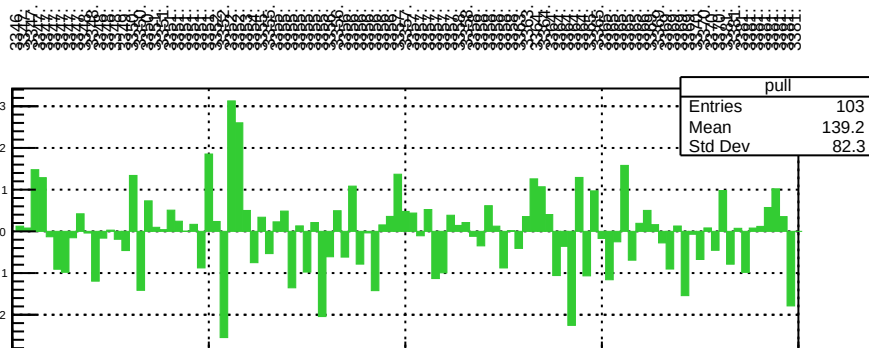
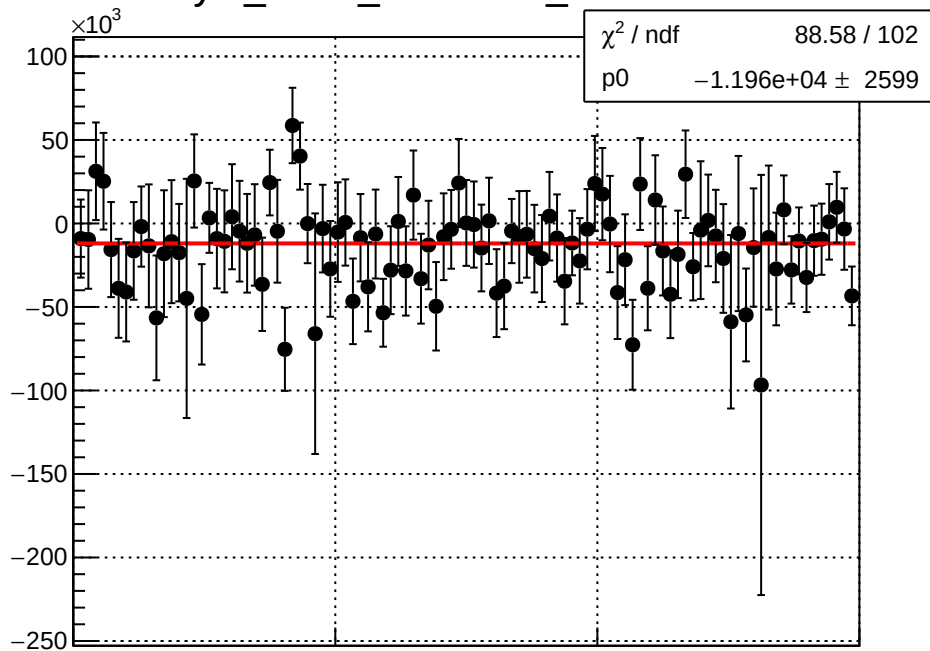
reg_asym_sam6_mean vs run



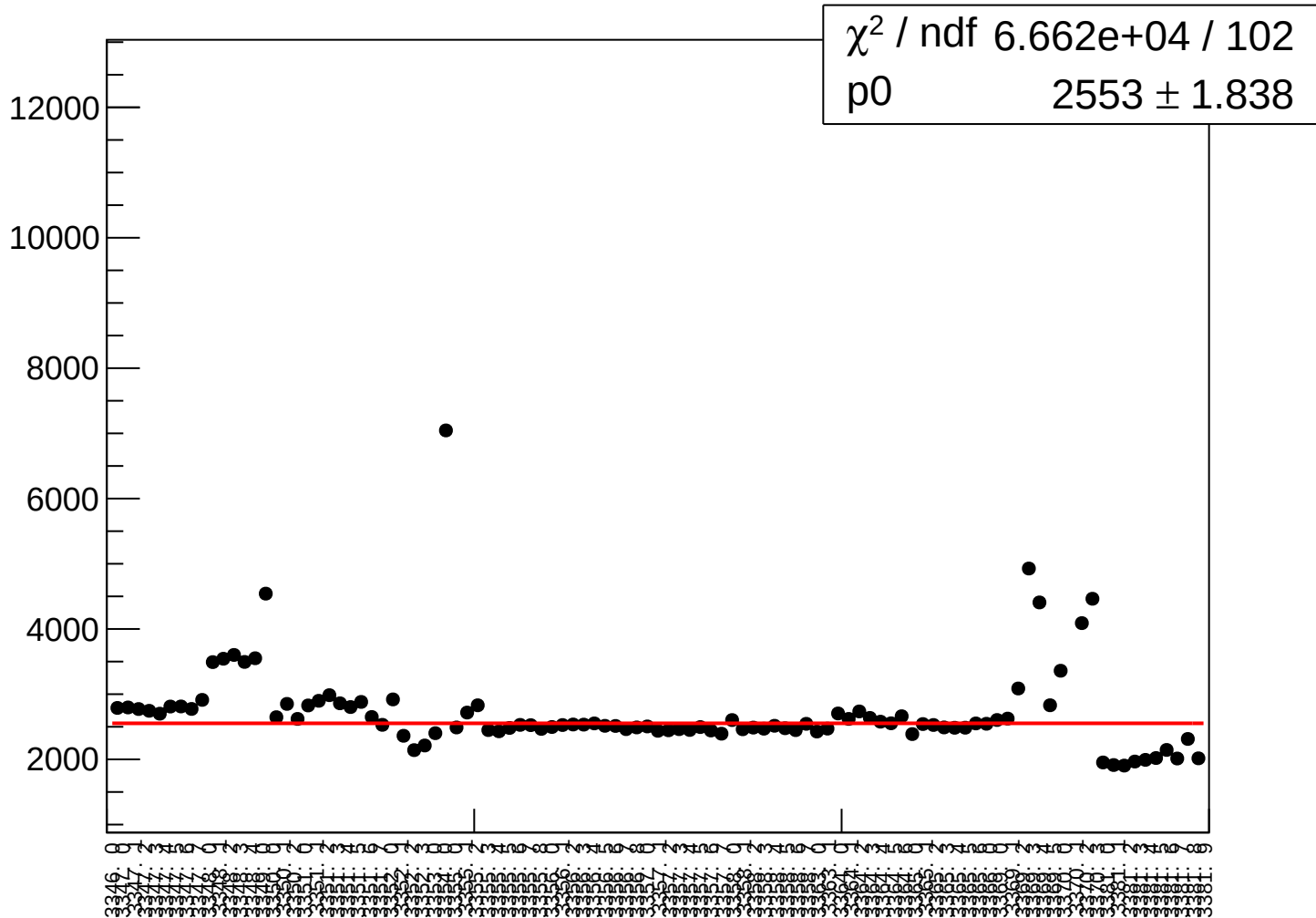
reg_asym_sam6_rms vs run



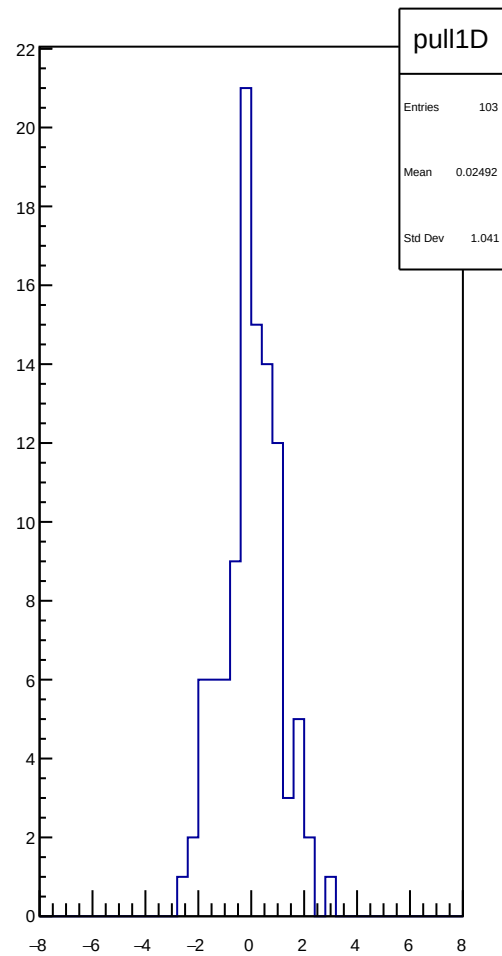
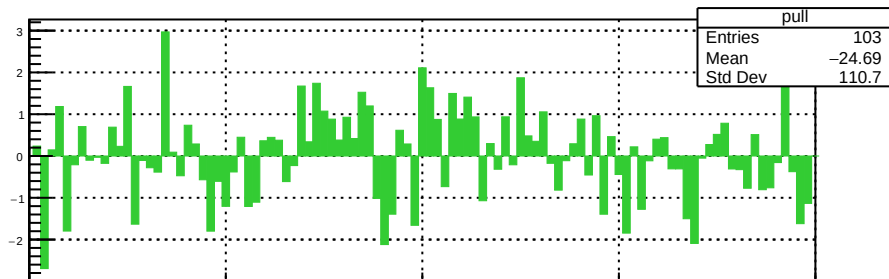
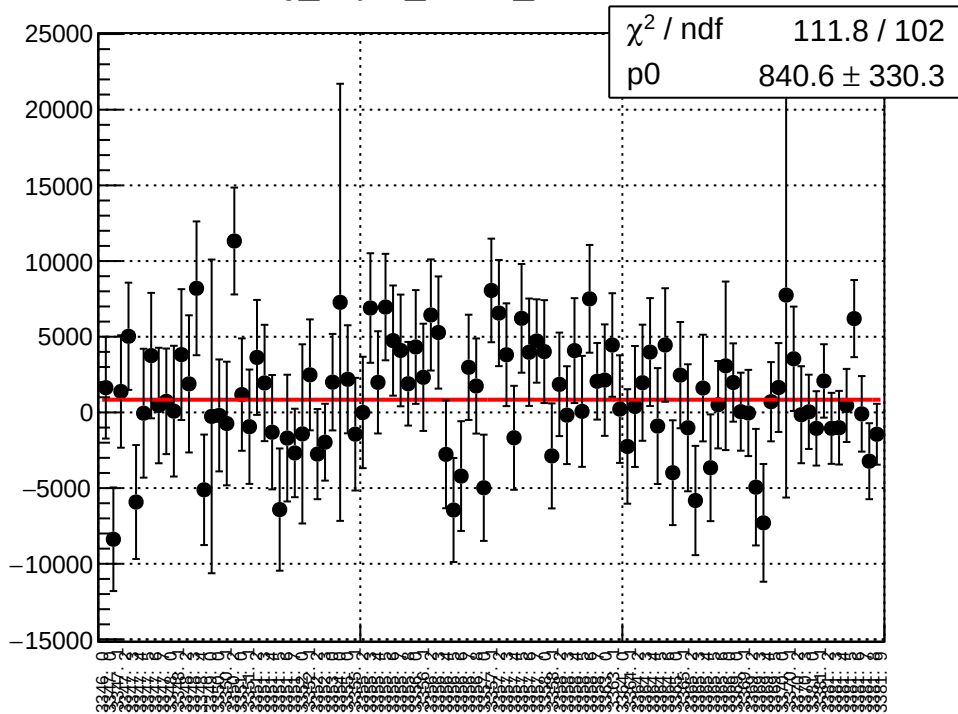
asym_sam6_correction_mean vs run



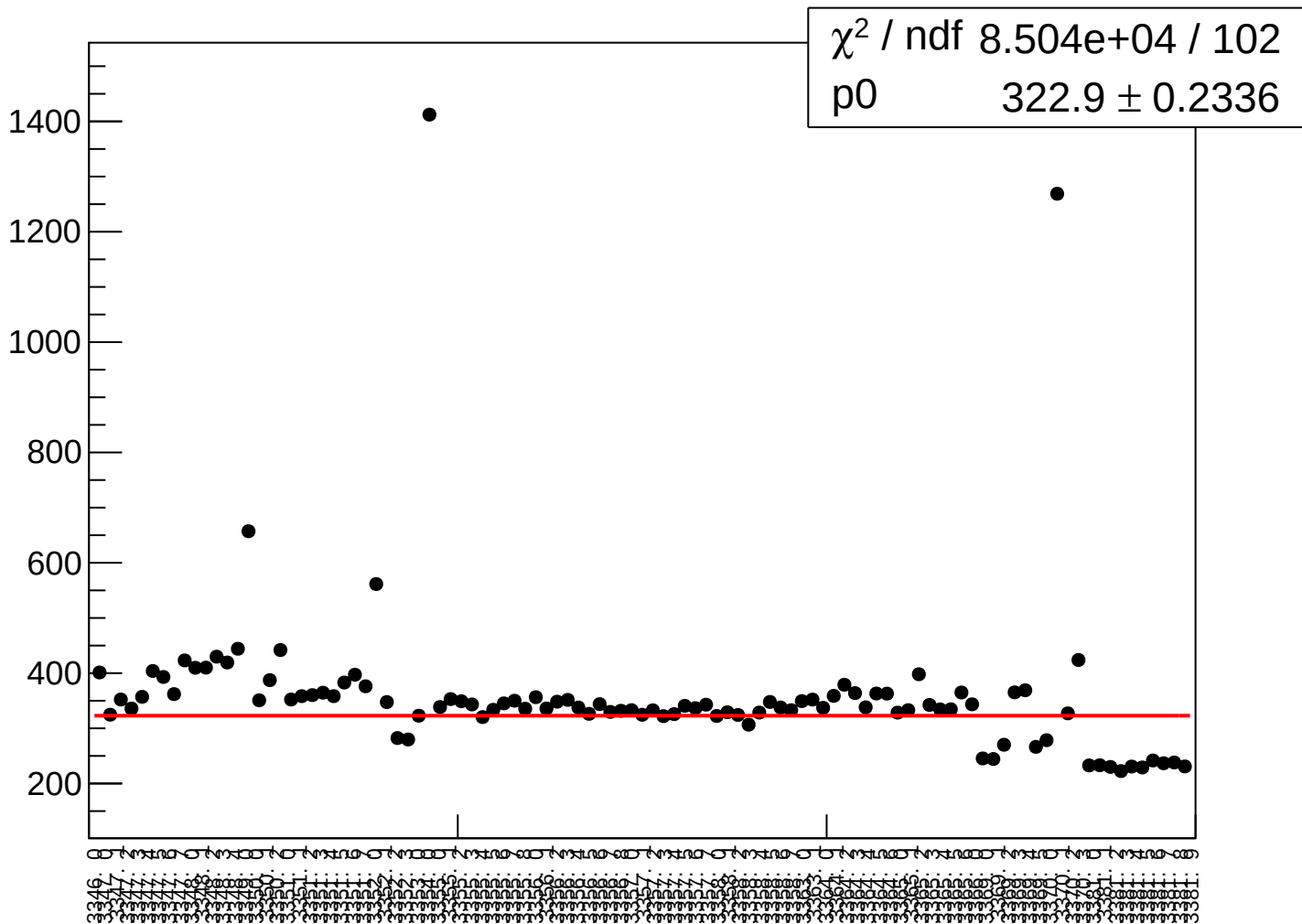
asym_sam6_correction_rms vs run



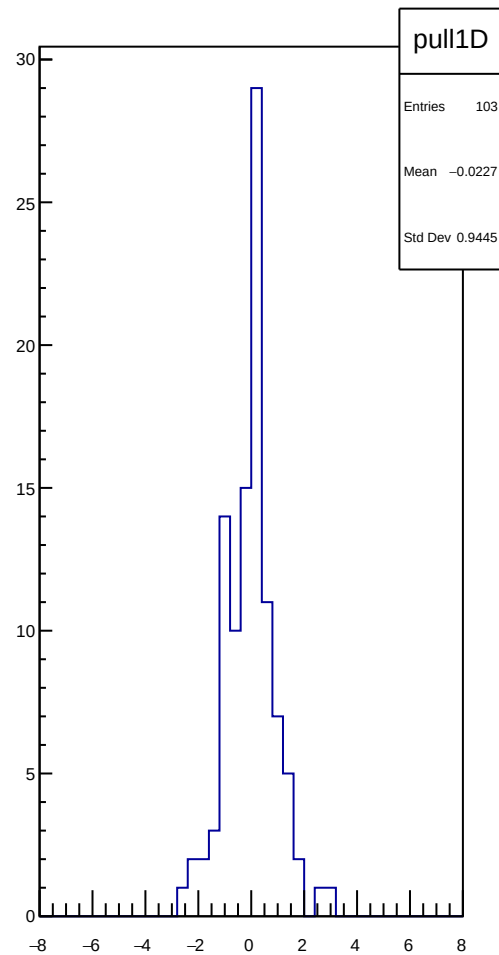
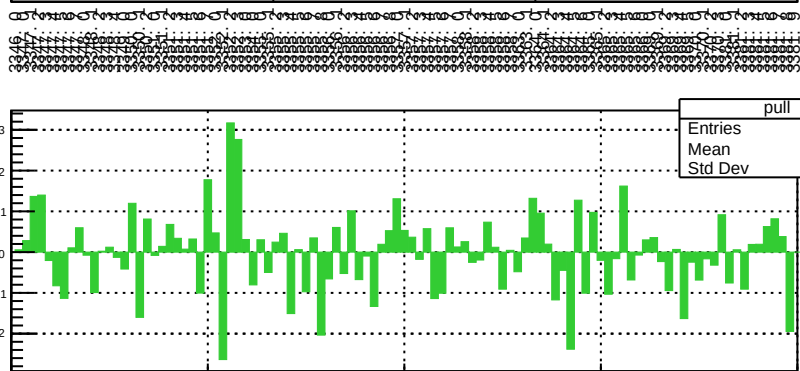
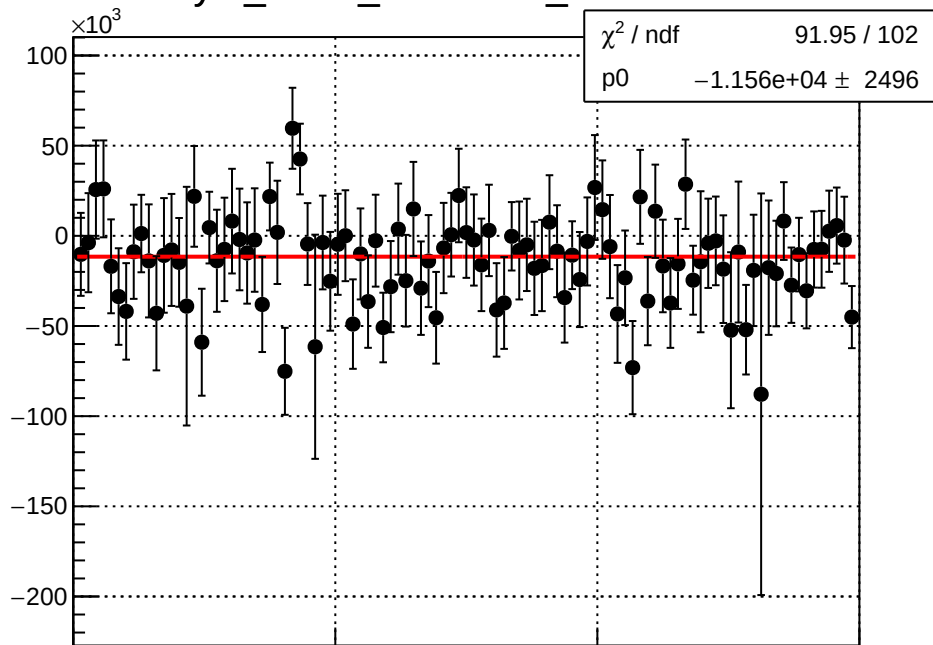
reg_asym_sam7_mean vs run



reg_asym_sam7_rms vs run

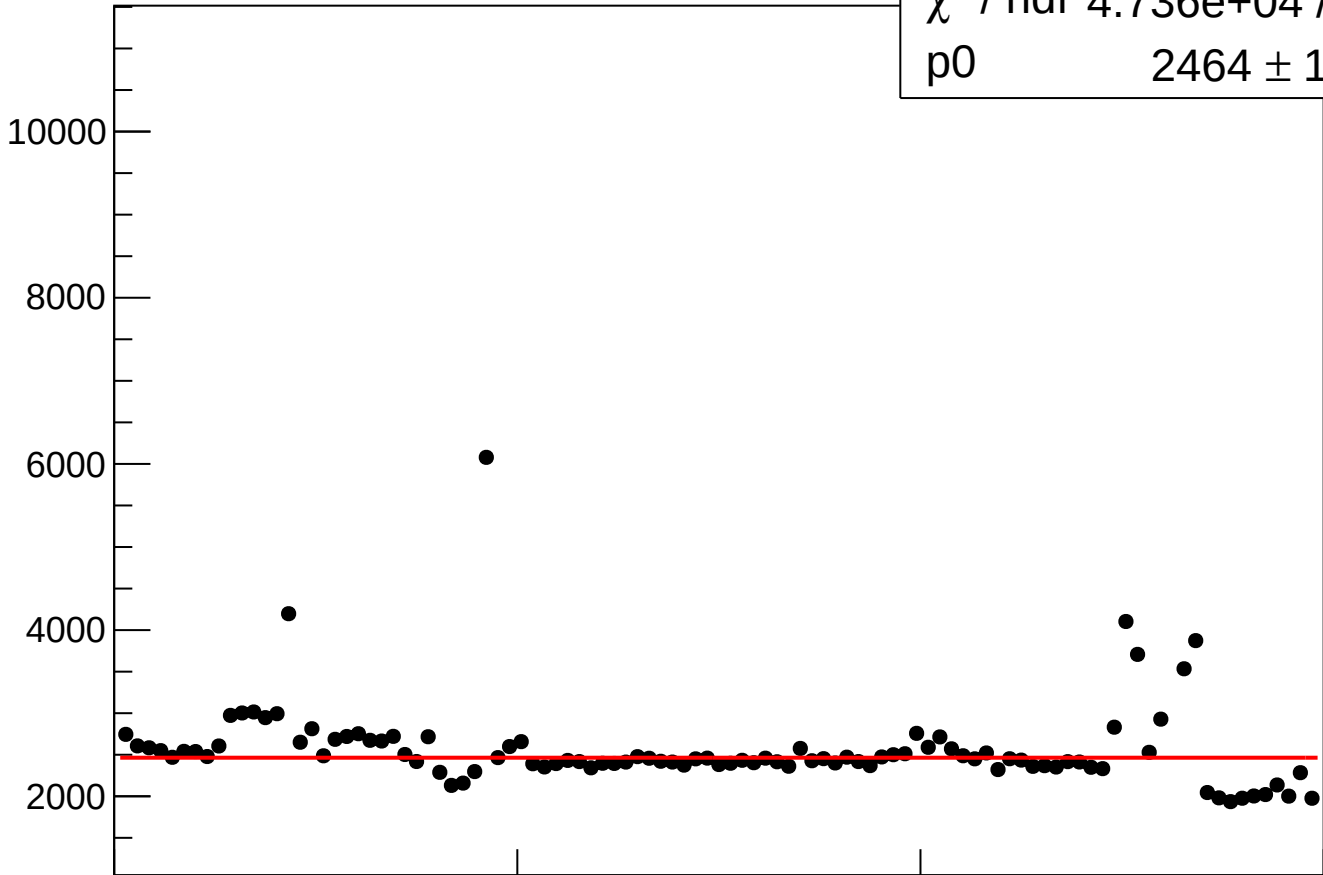


asym_sam7_correction_mean vs run

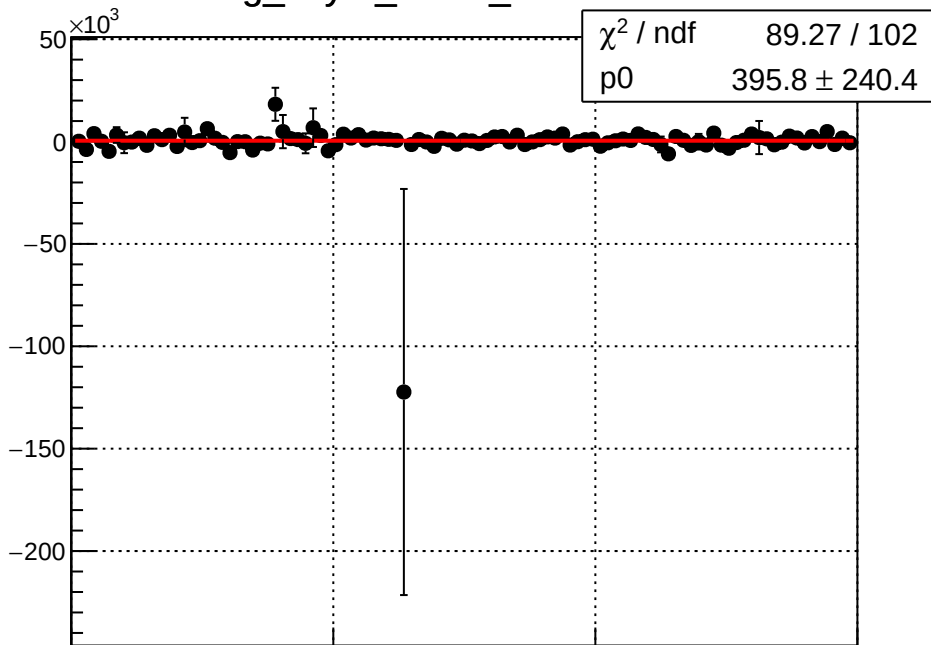


asym_sam7_correction_rms vs run

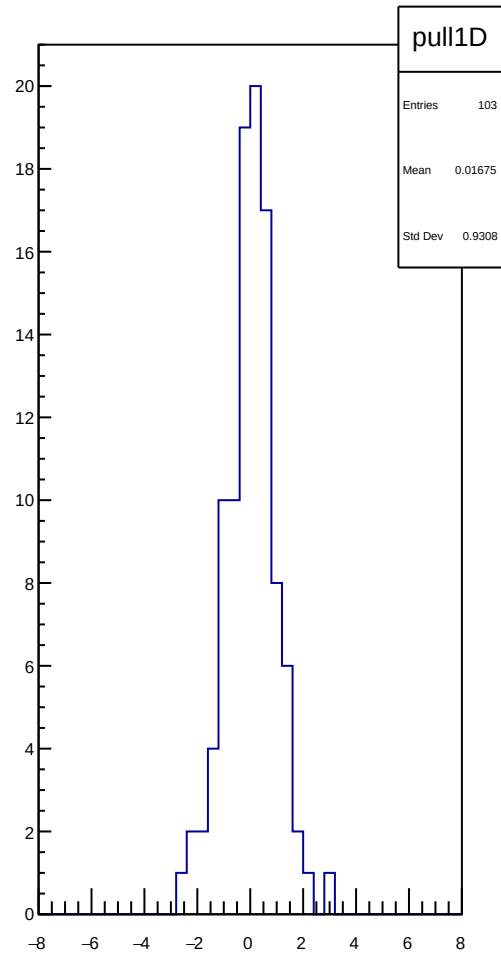
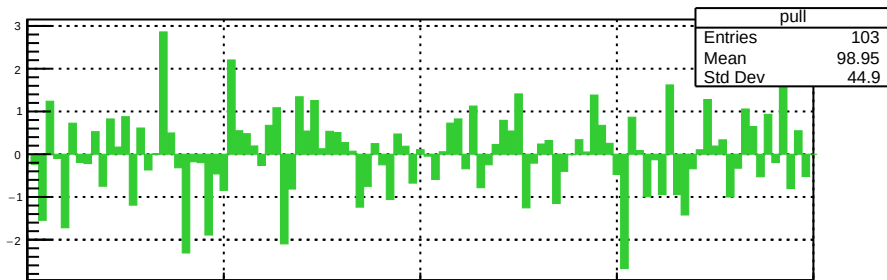
χ^2 / ndf 4.736e+04 / 102
p0 2464 $\pm$ 1.765



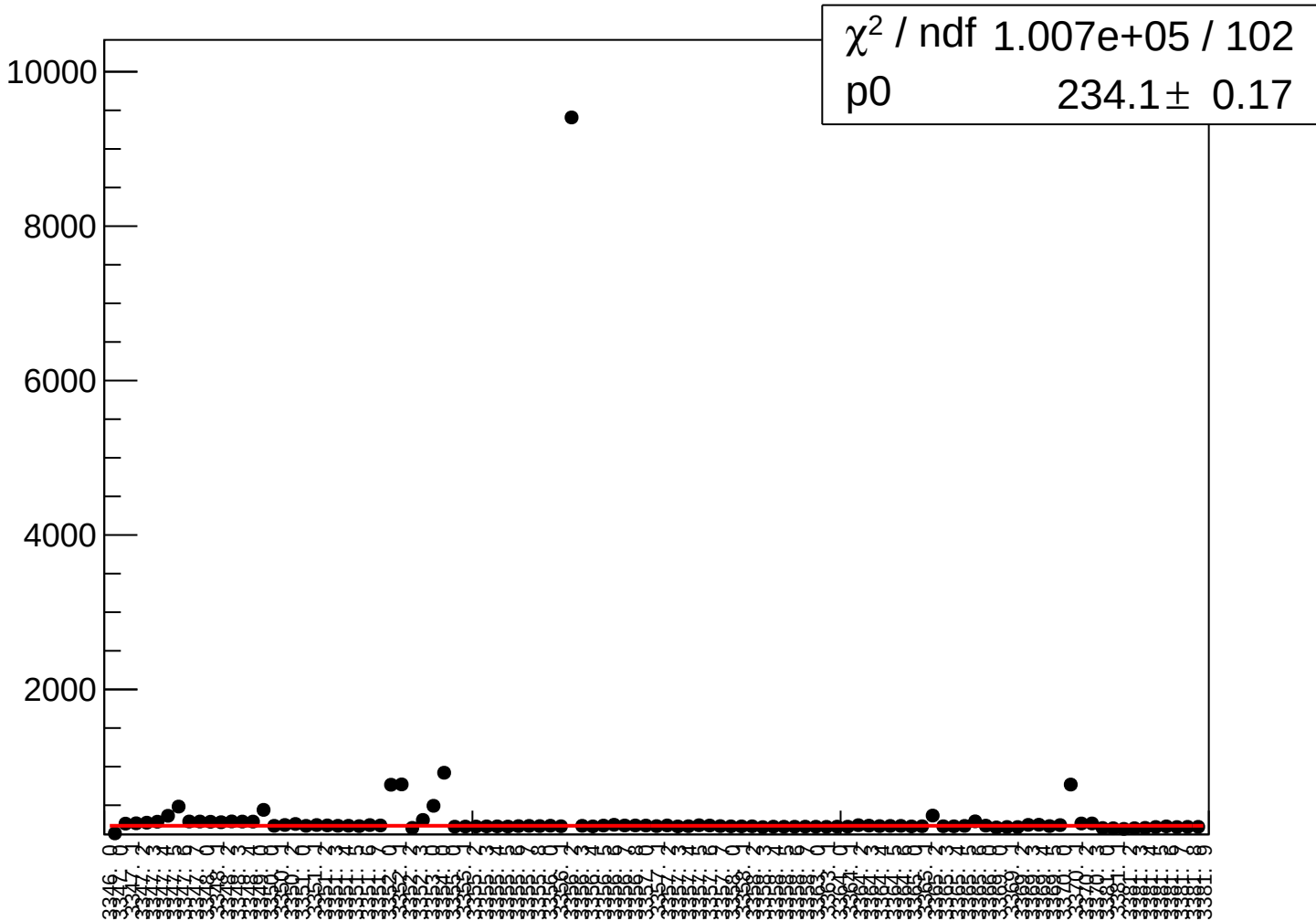
reg_asym_sam8_mean vs run



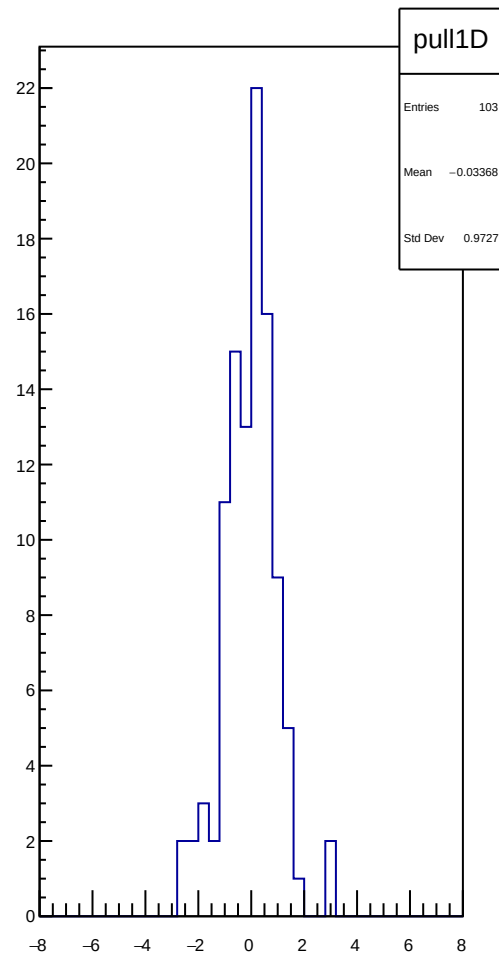
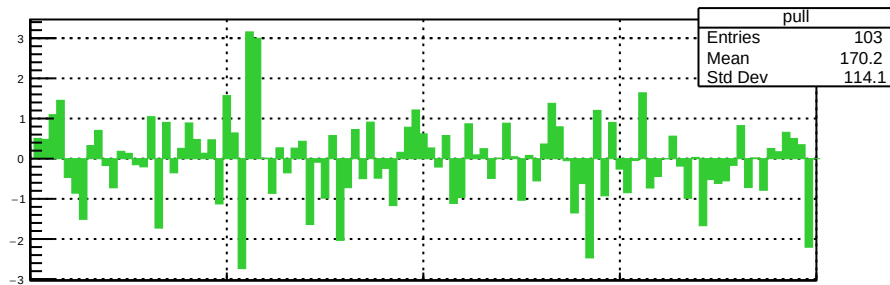
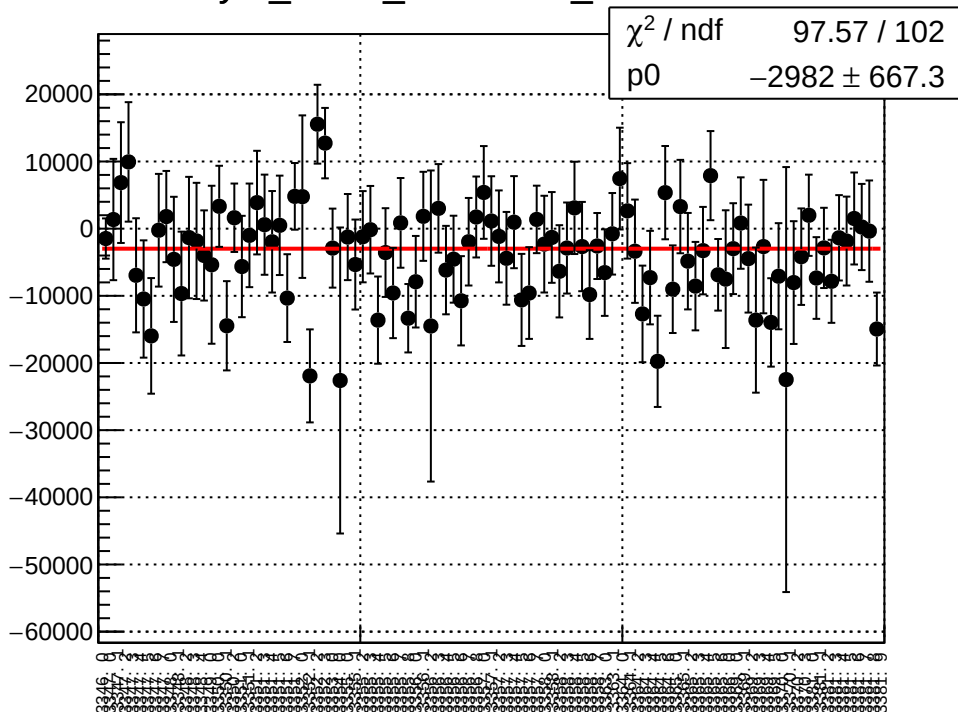
Correlation Coefficient: 0.9999999999999999



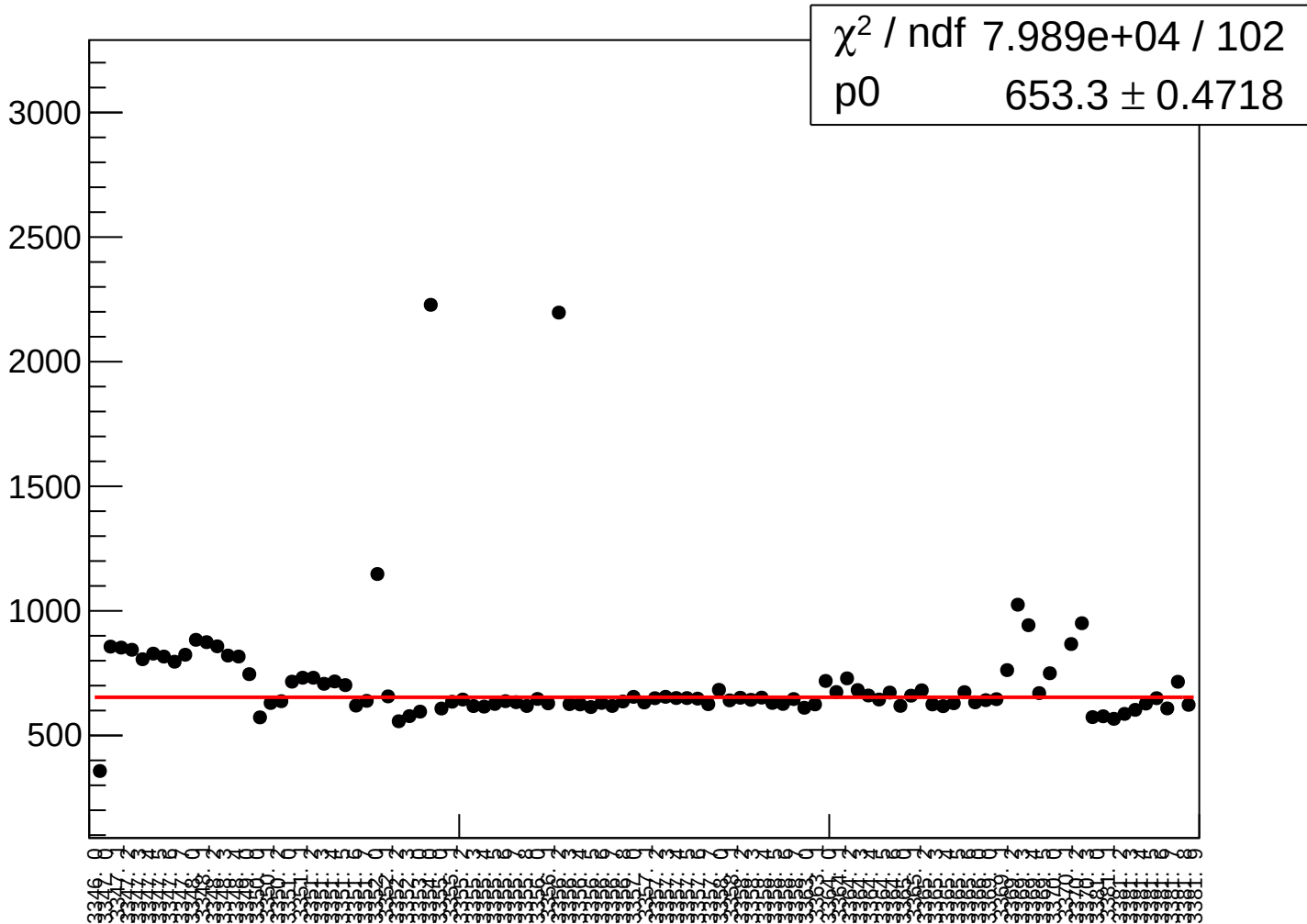
reg_asym_sam8_rms vs run



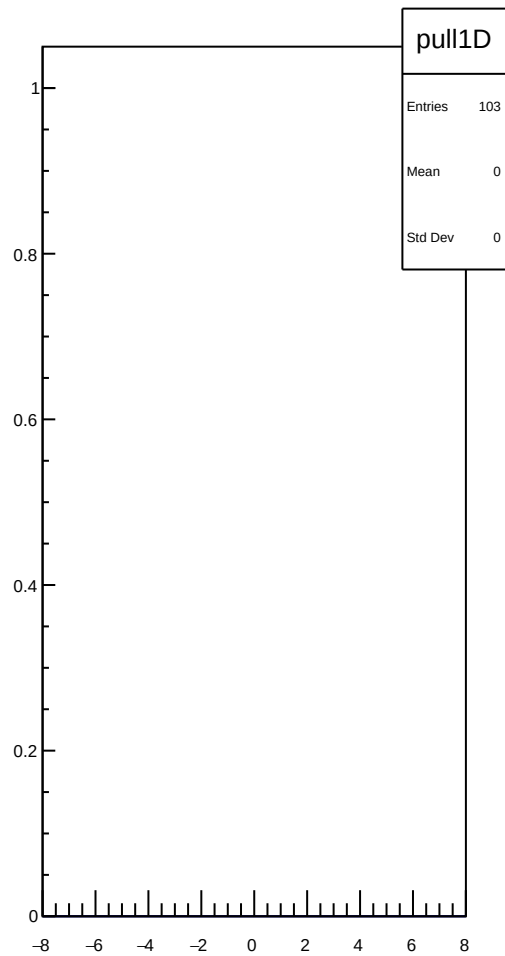
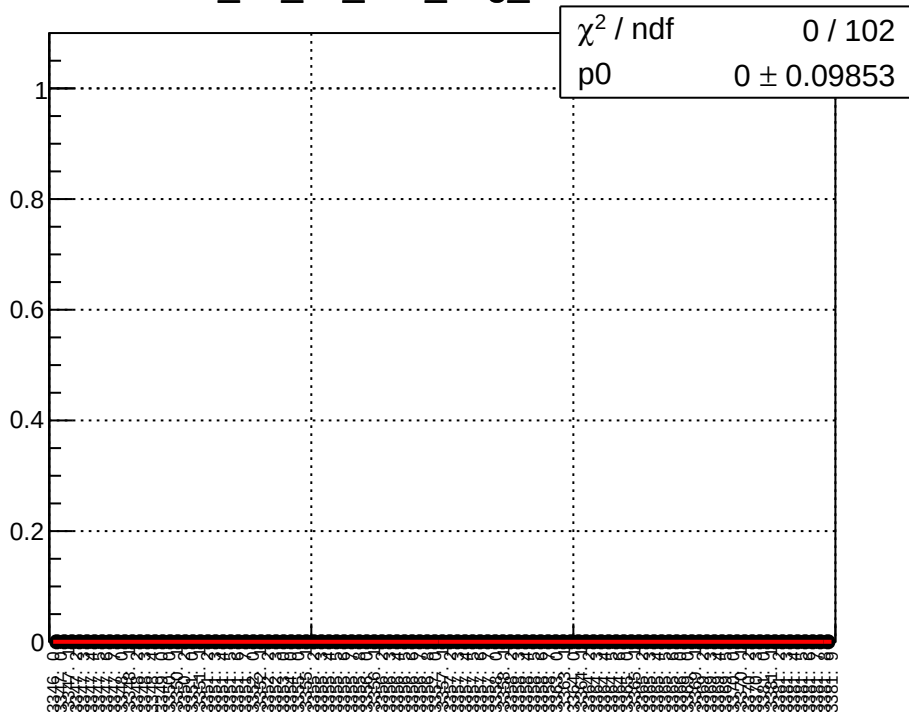
asym_sam8_correction_mean vs run



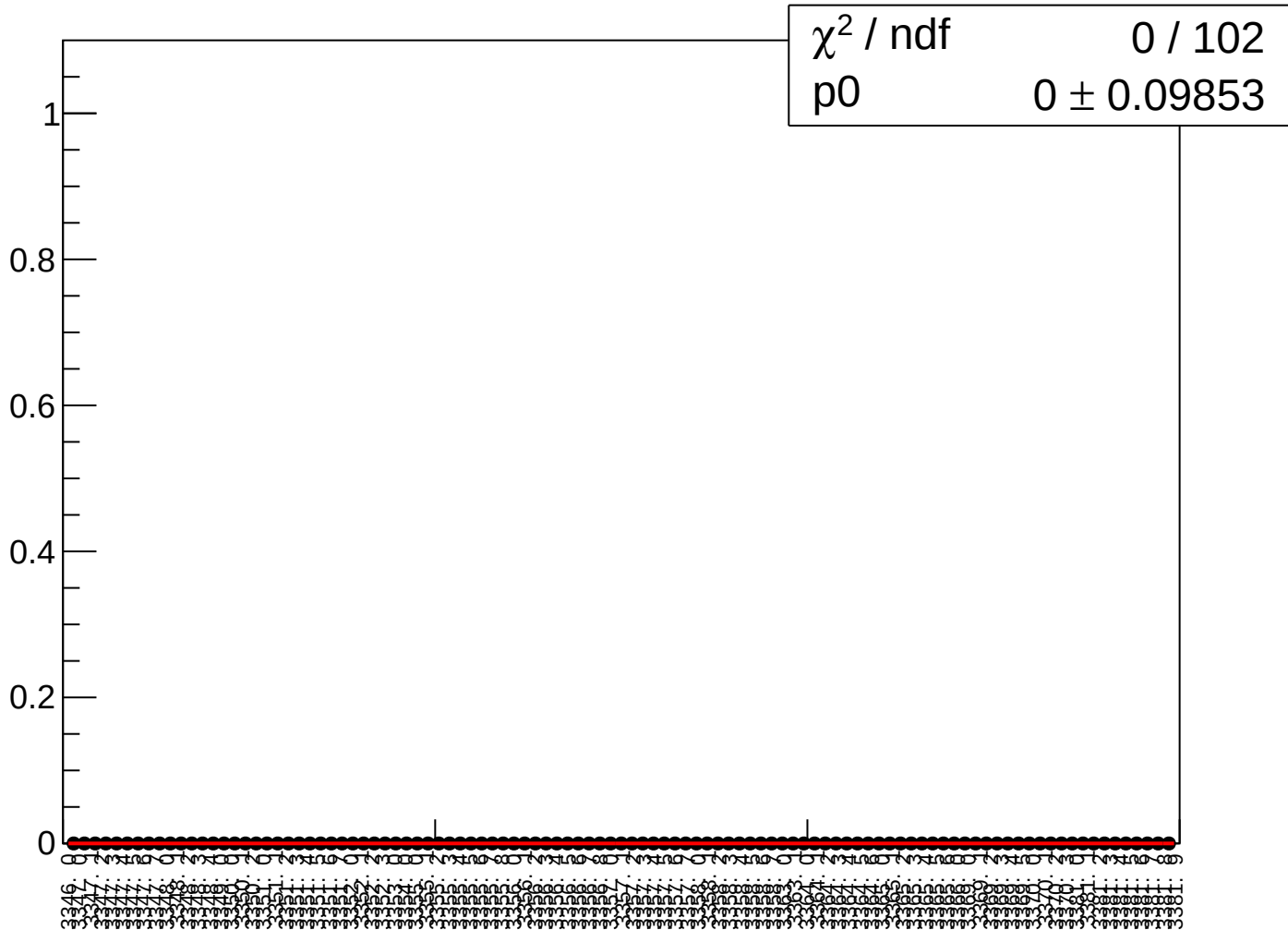
asym_sam8_correction_rms vs run



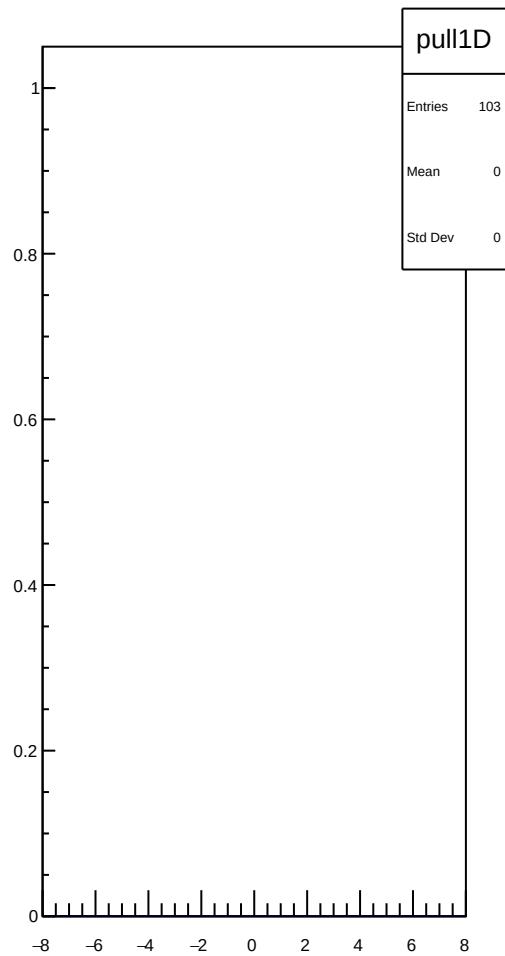
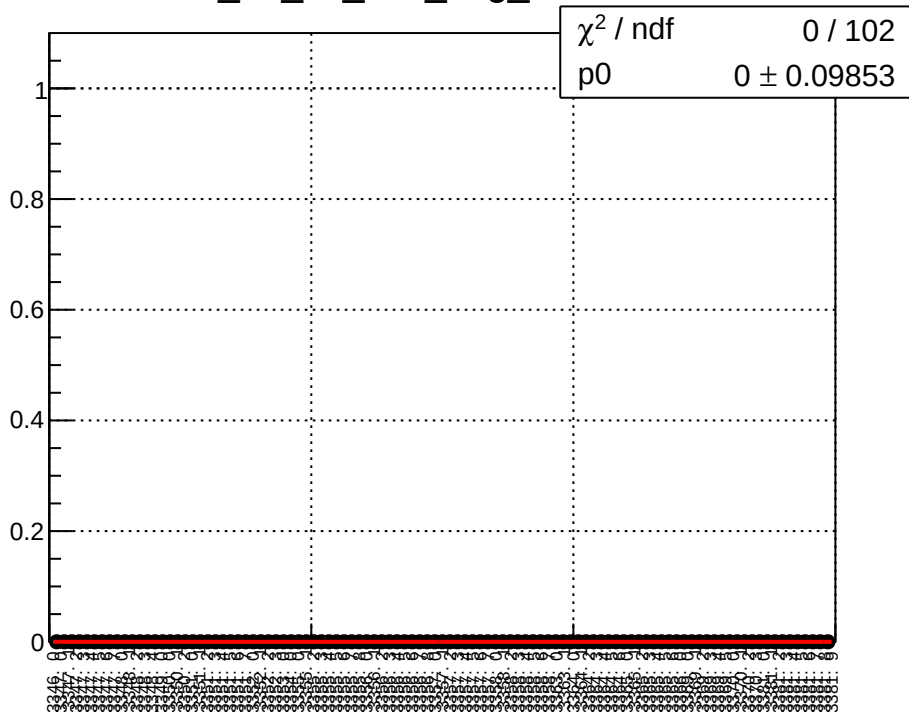
bcm_an_us_ds3_avg_mean vs run



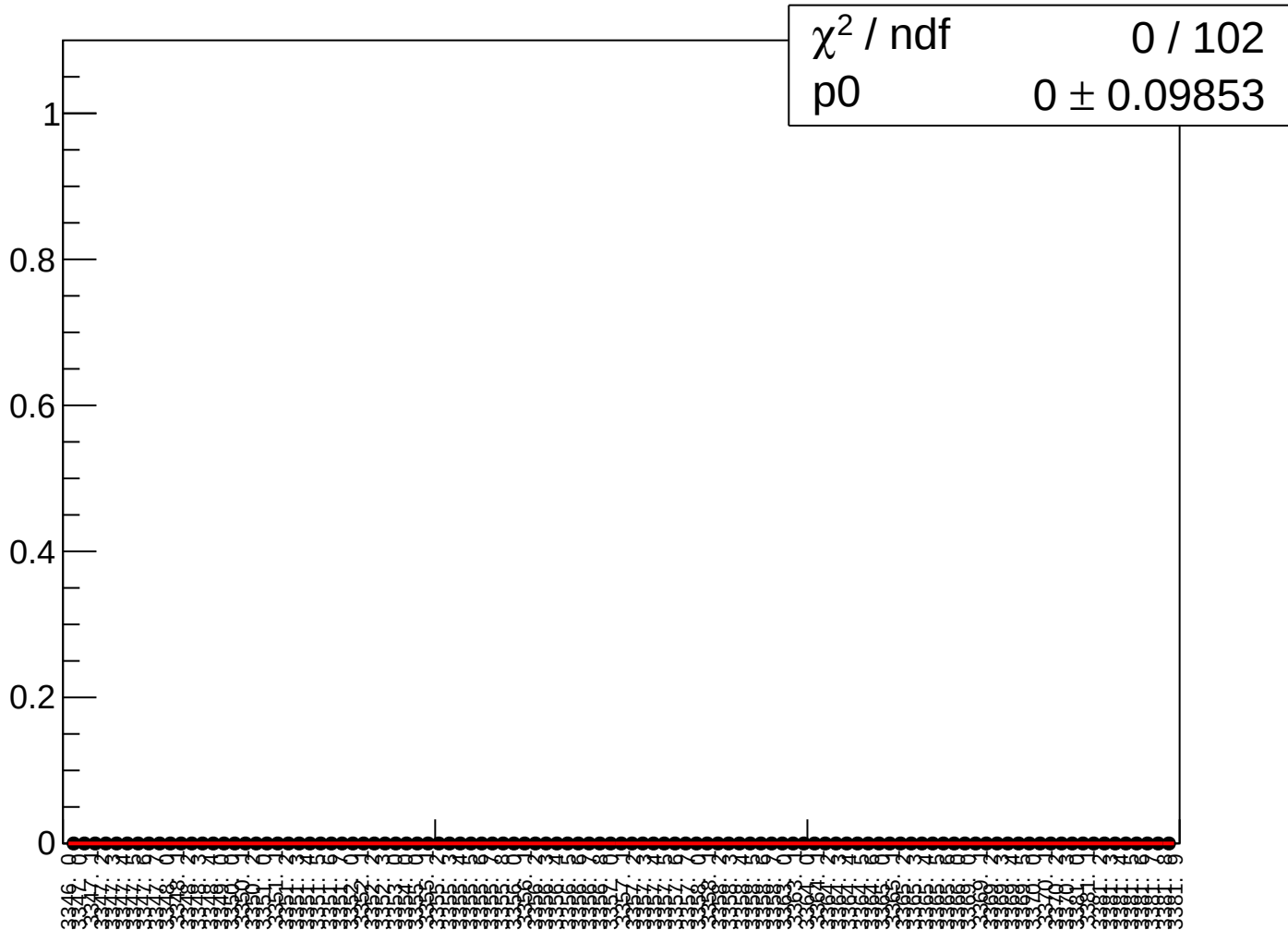
bcm_an_us_ds3_avg_rms vs run



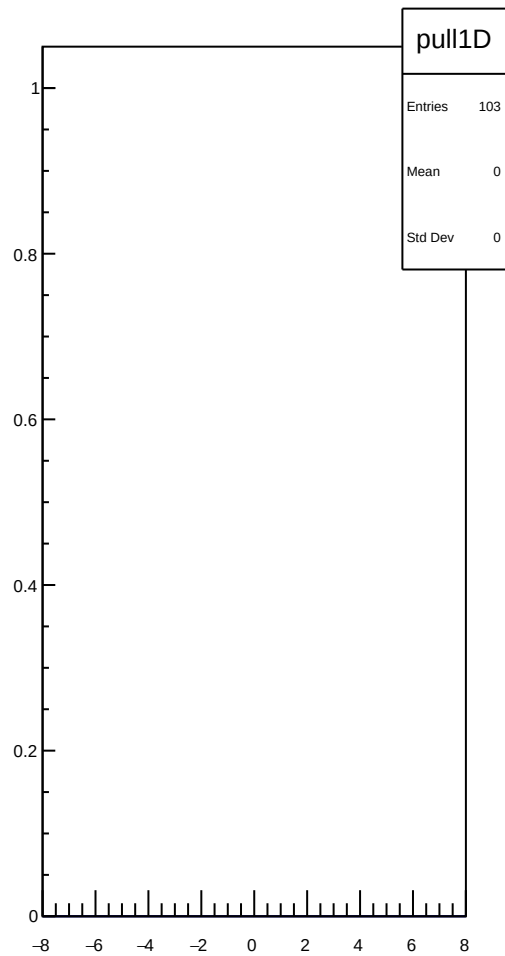
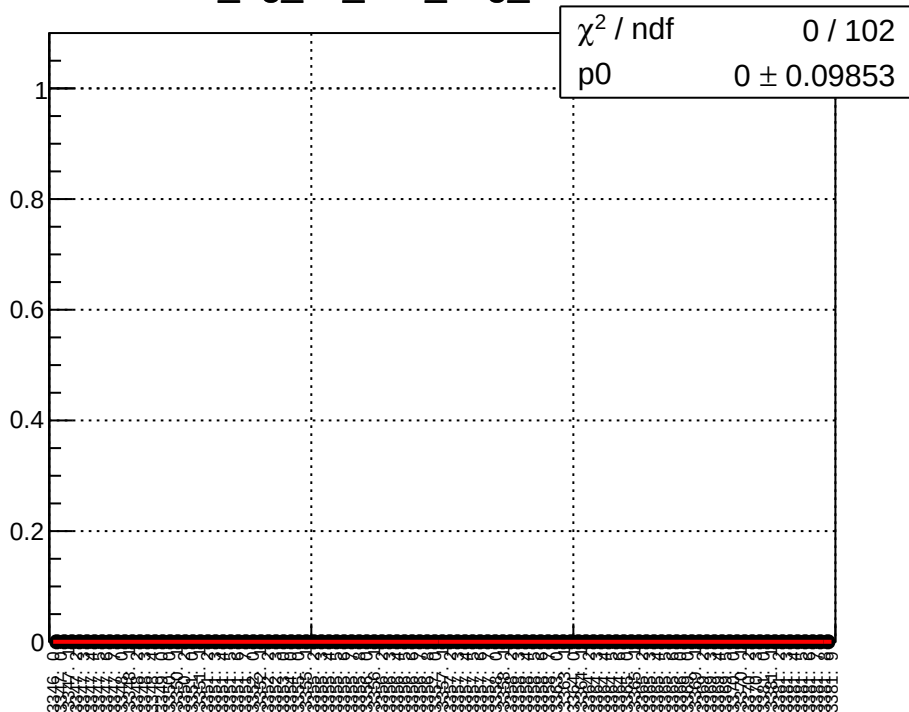
bcm_an_ds_ds3_avg_mean vs run



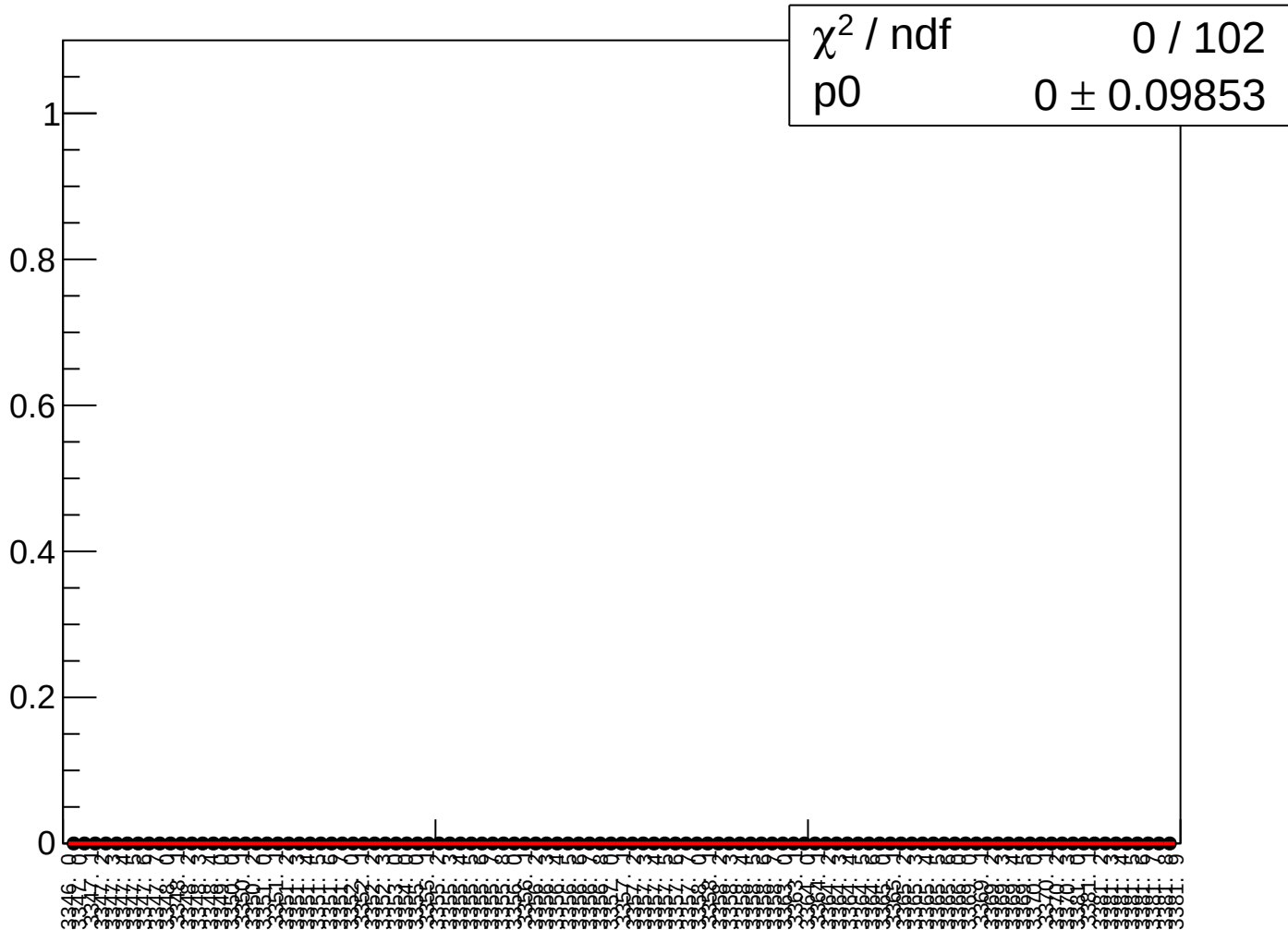
bcm_an_ds_ds3_avg_rms vs run



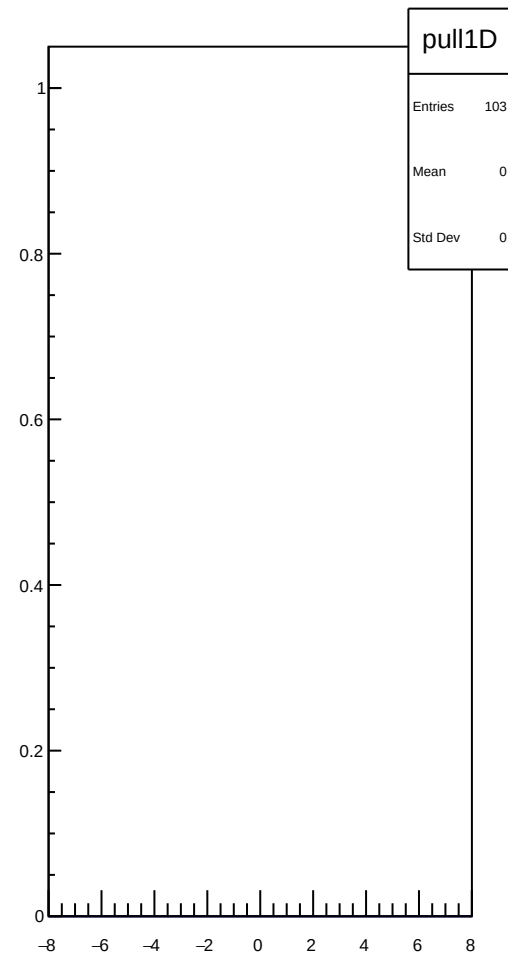
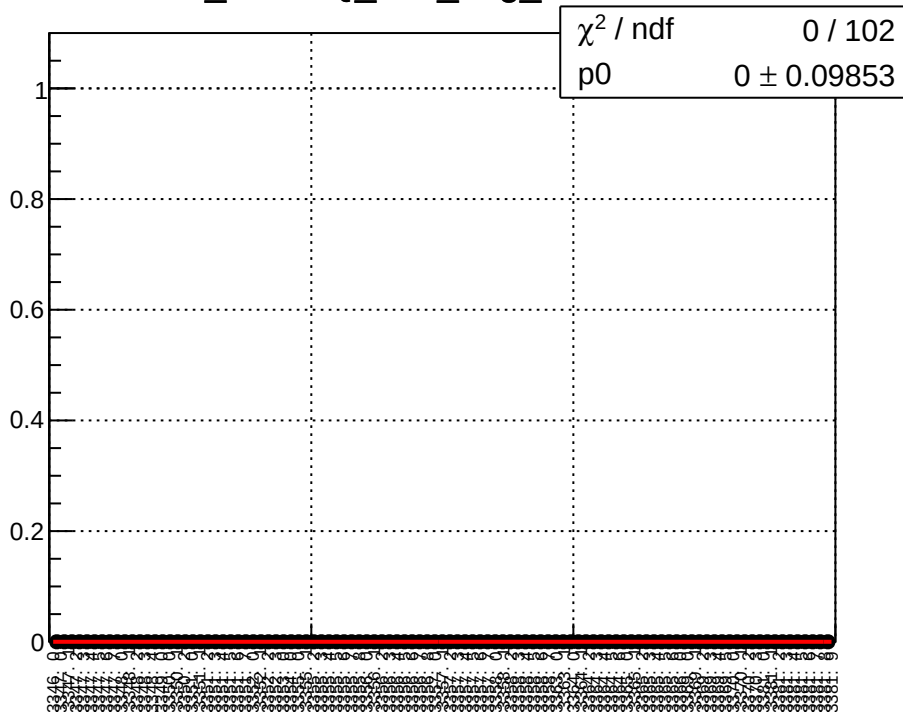
bcm_dg_us_ds3_avg_mean vs run



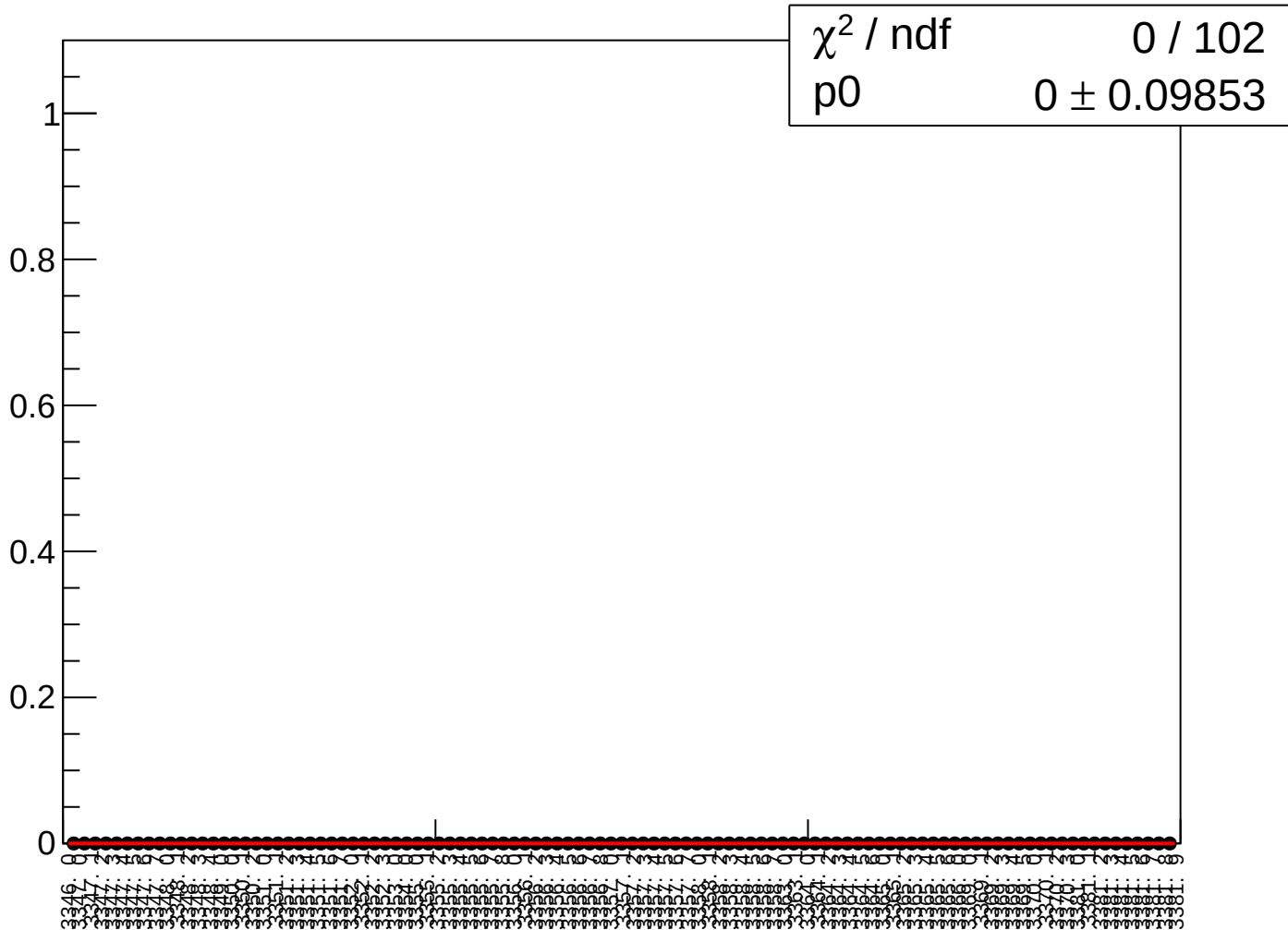
bcm_dg_us_ds3_avg_rms vs run



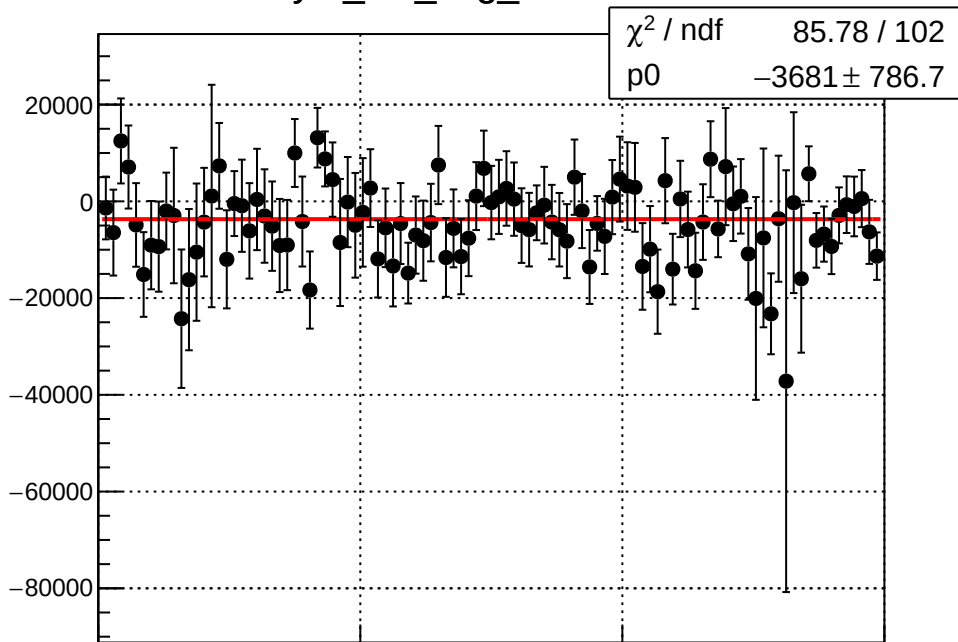
bcm_cav4cQ_ds3_avg_mean vs run



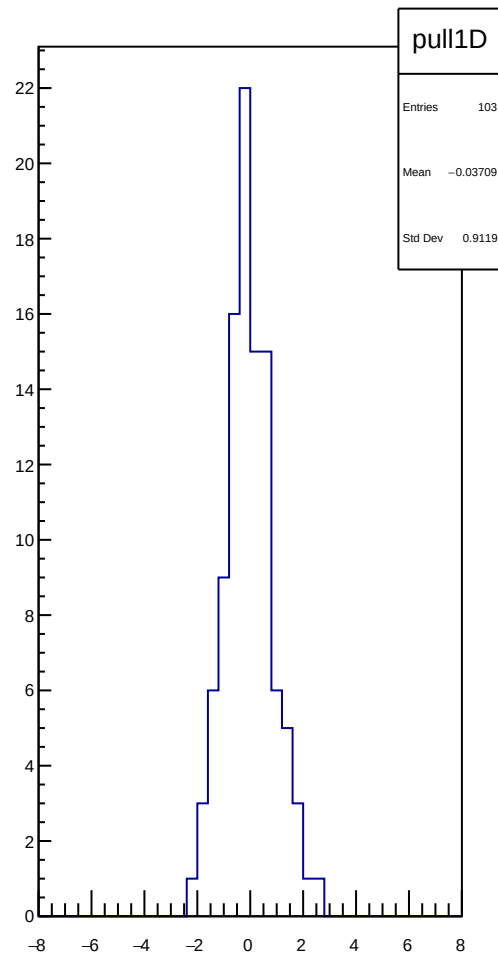
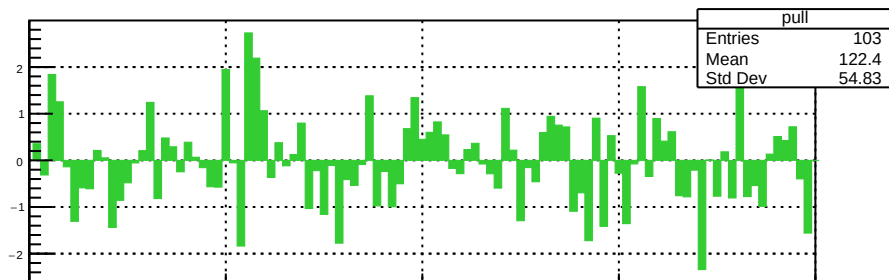
bcm_cav4cQ_ds3_avg_rms vs run



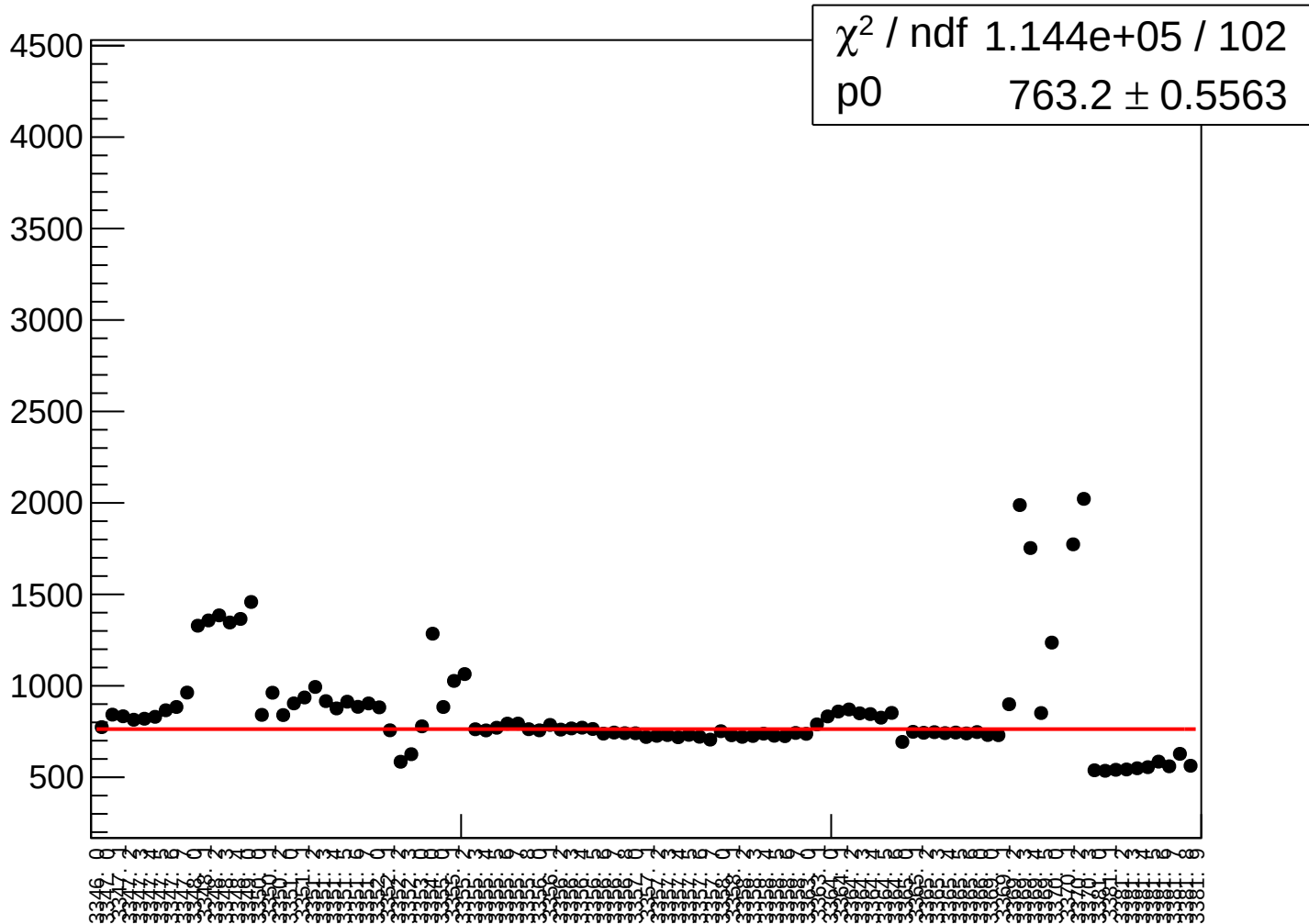
asym_left_avg_mean vs run



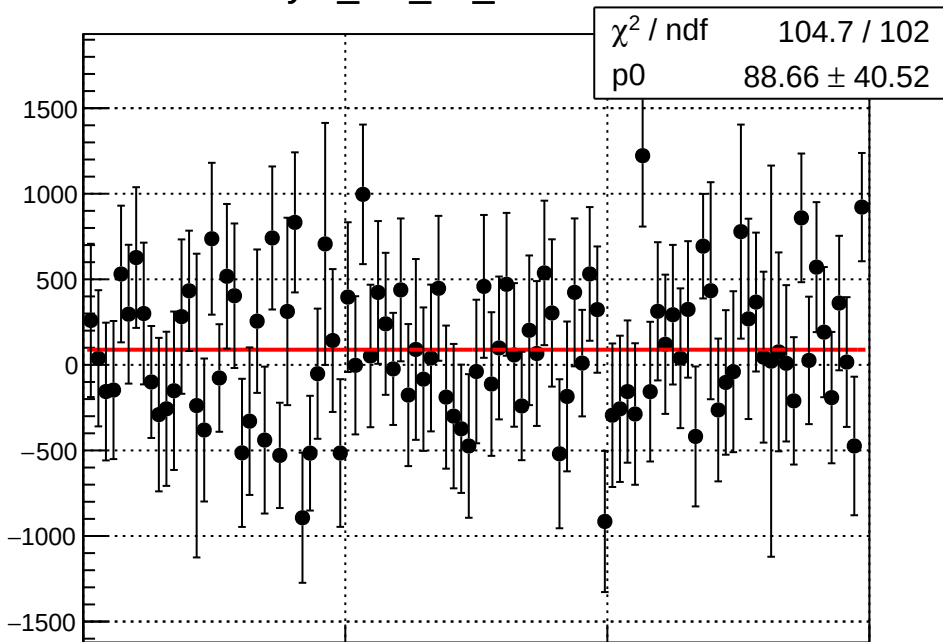
asym_left_avg_mean vs run



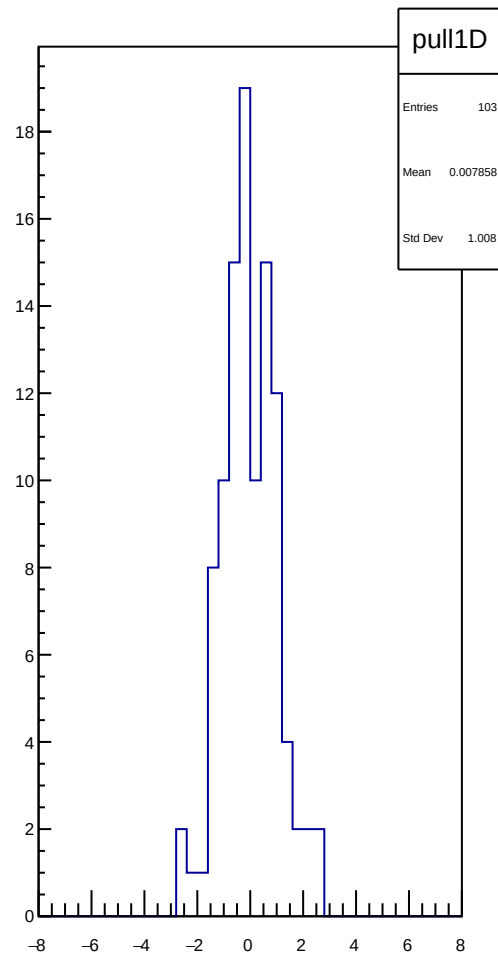
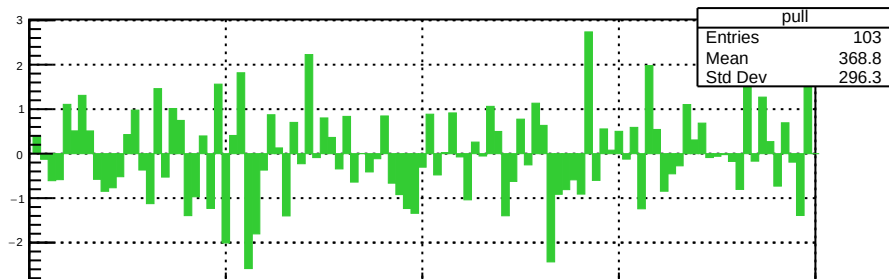
asym_left_avg_rms vs run



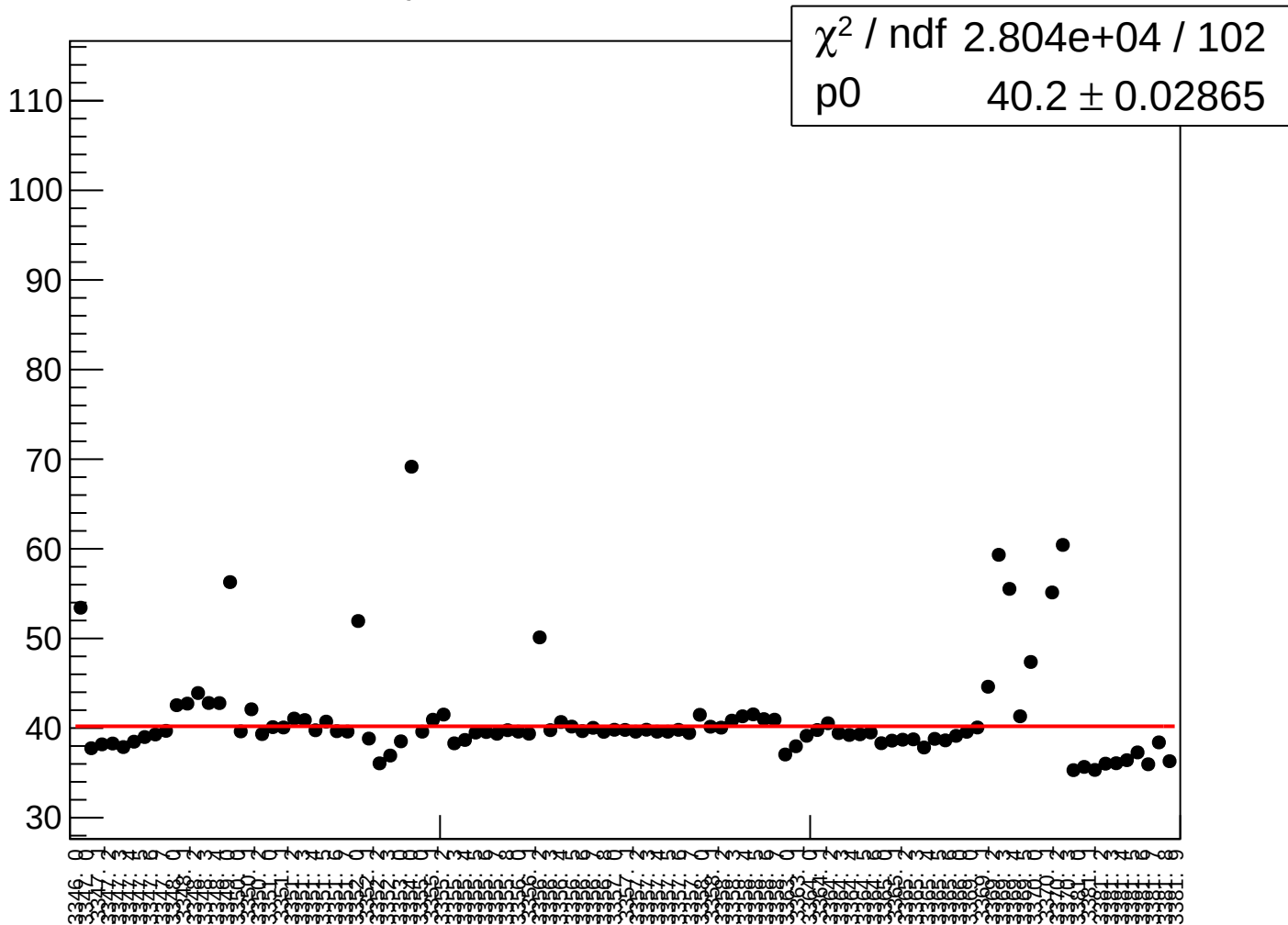
asym_left_dd_mean vs run



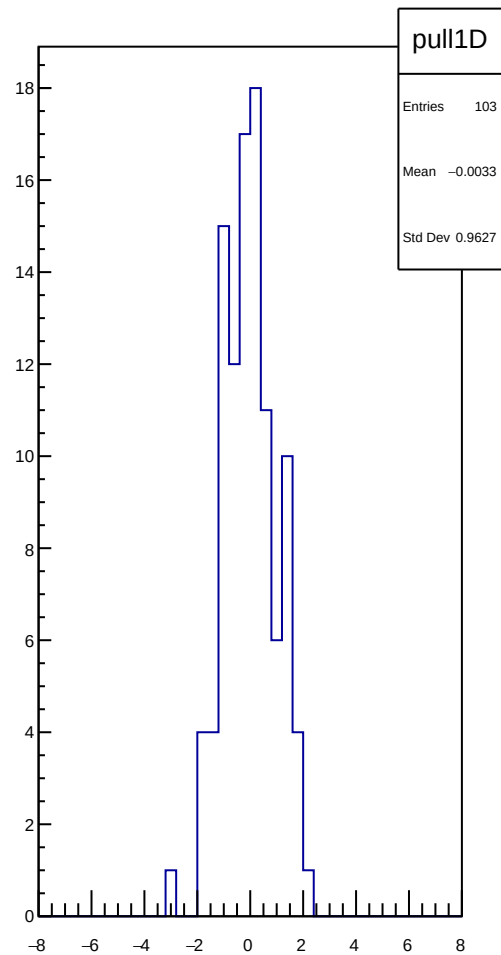
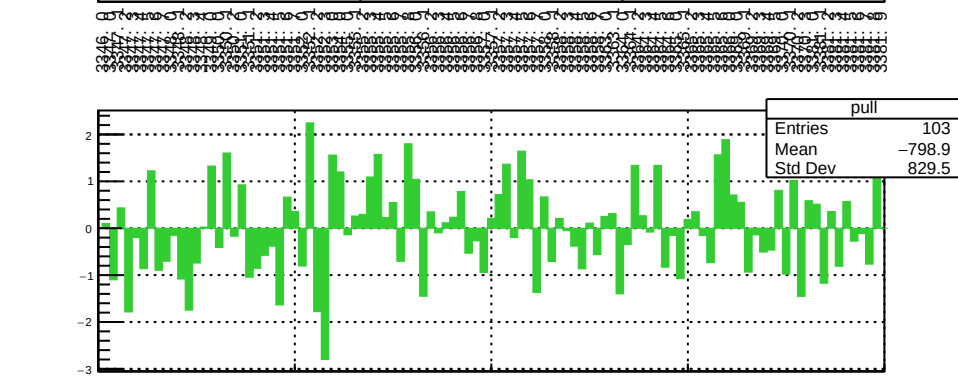
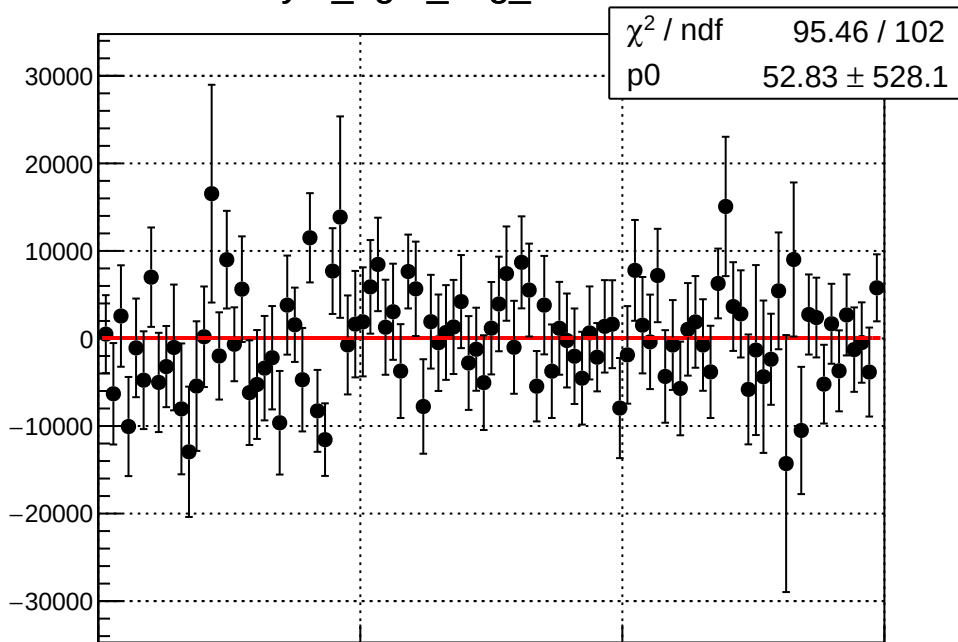
asym_left_dd_mean vs run



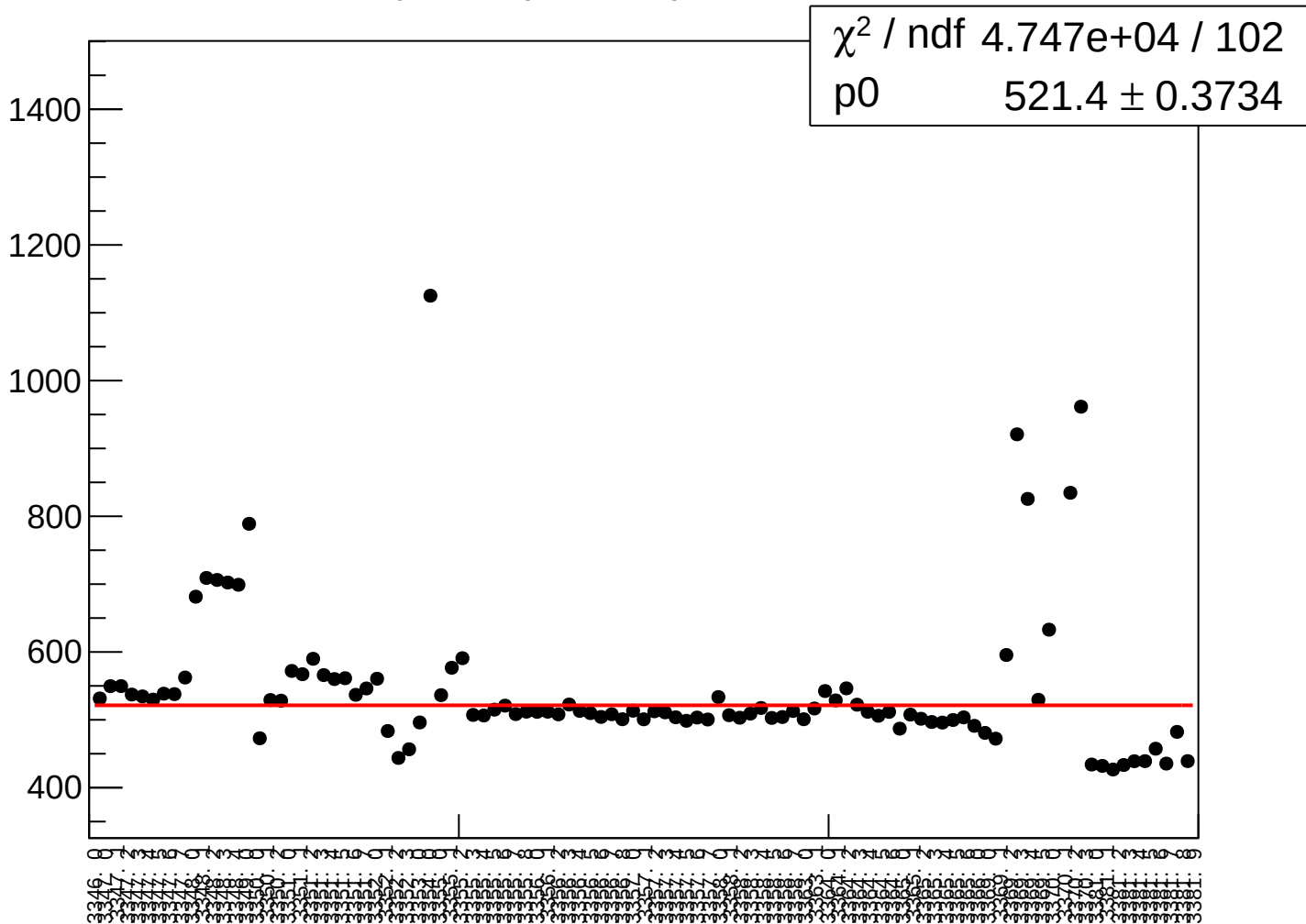
asym_left_dd_rms vs run



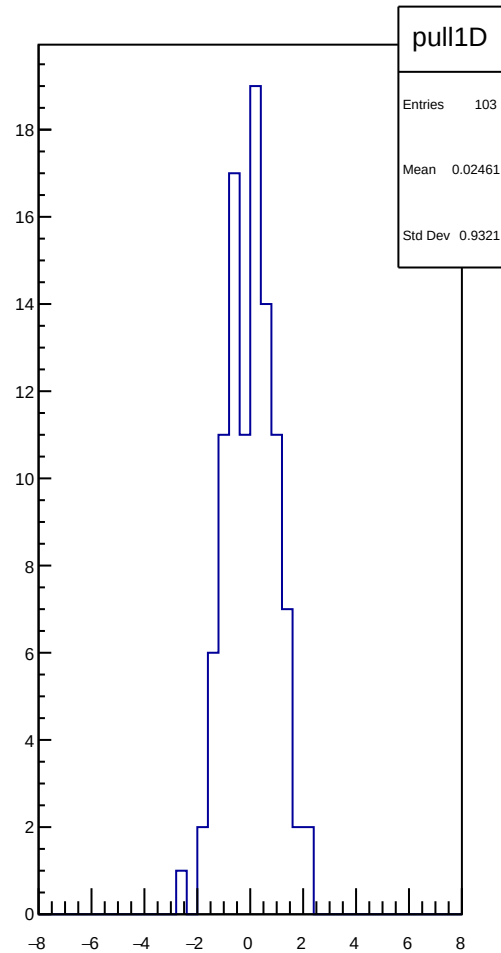
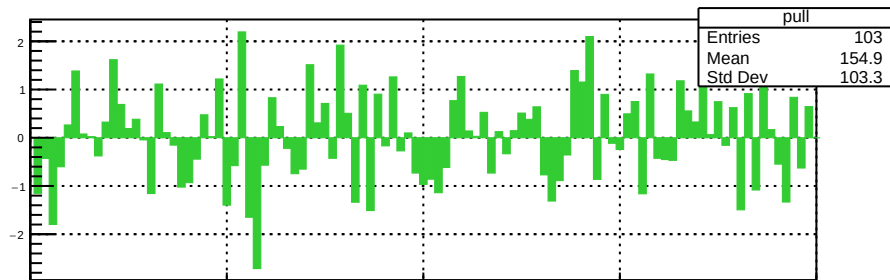
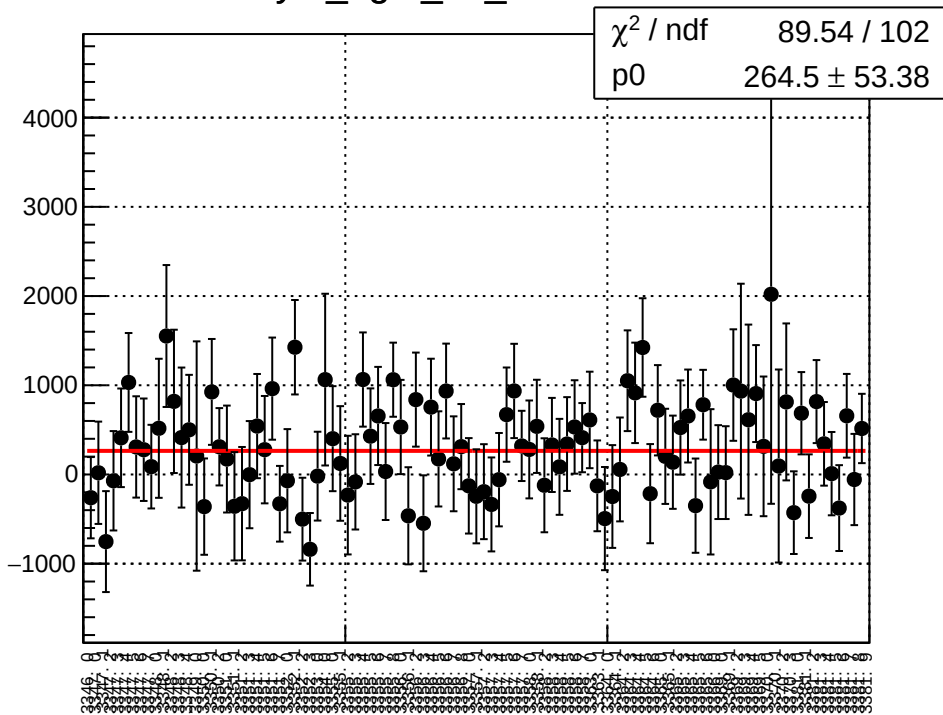
asym_right_avg_mean vs run



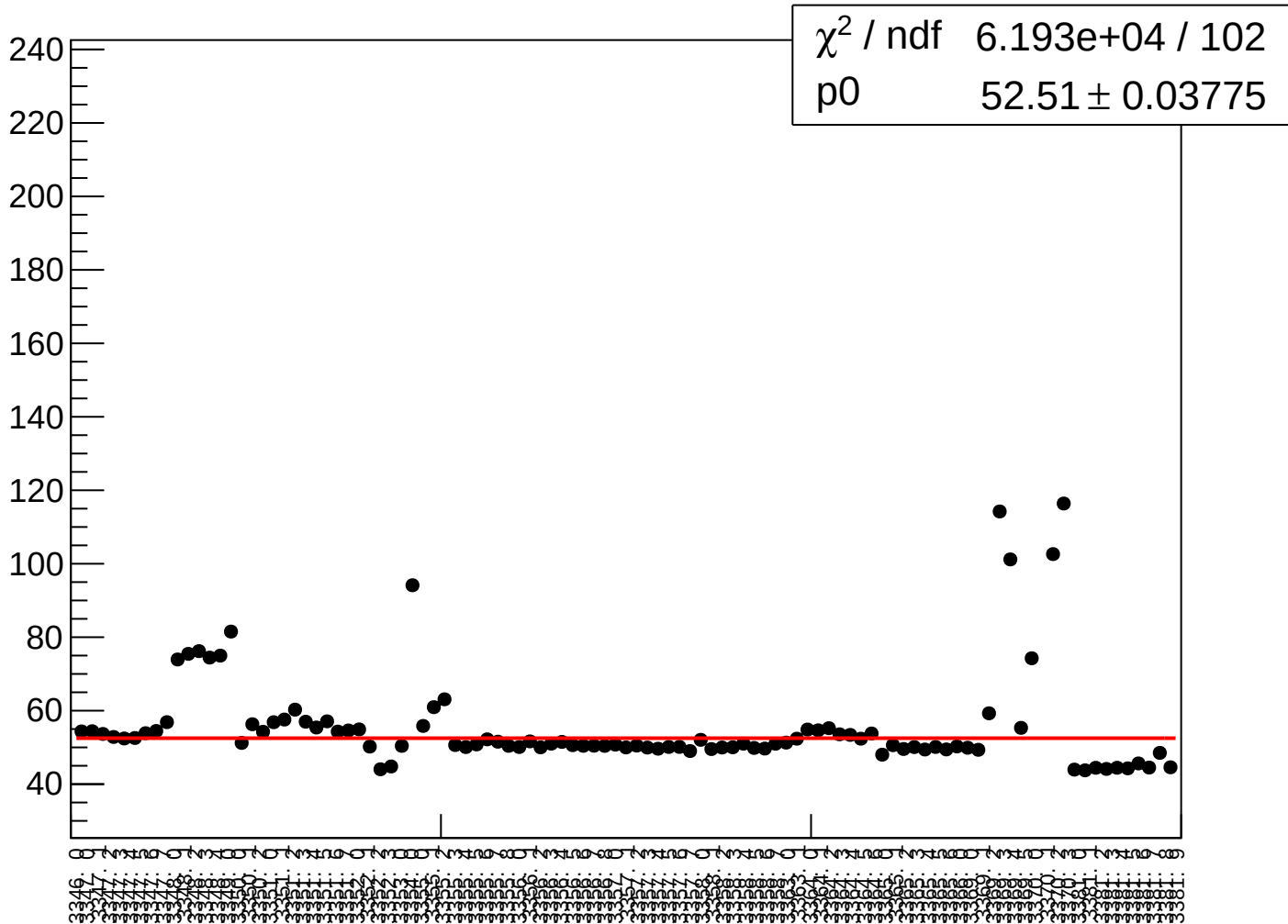
asym_right_avg_rms vs run



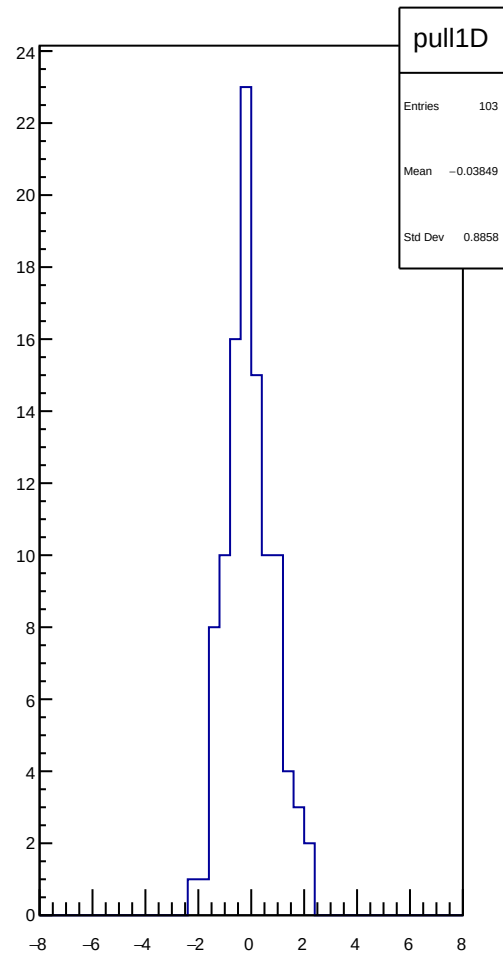
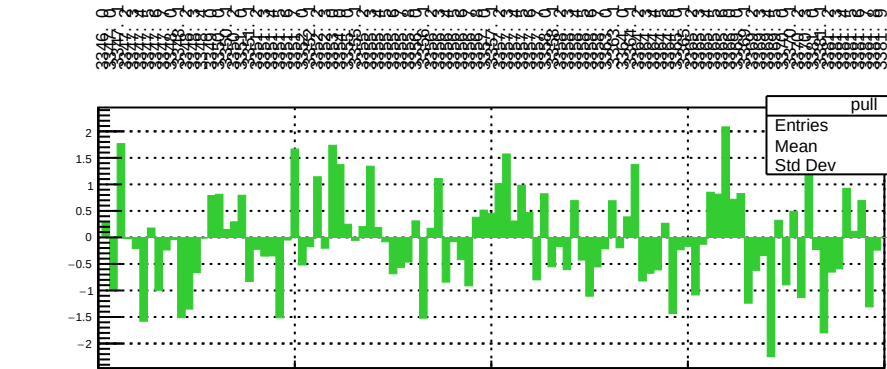
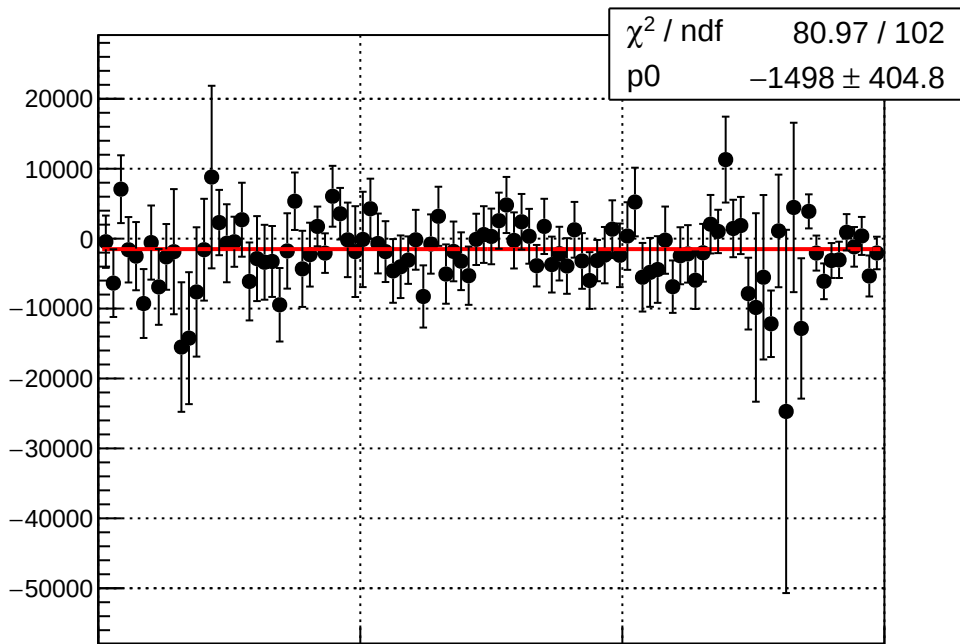
asym_right_dd_mean vs run



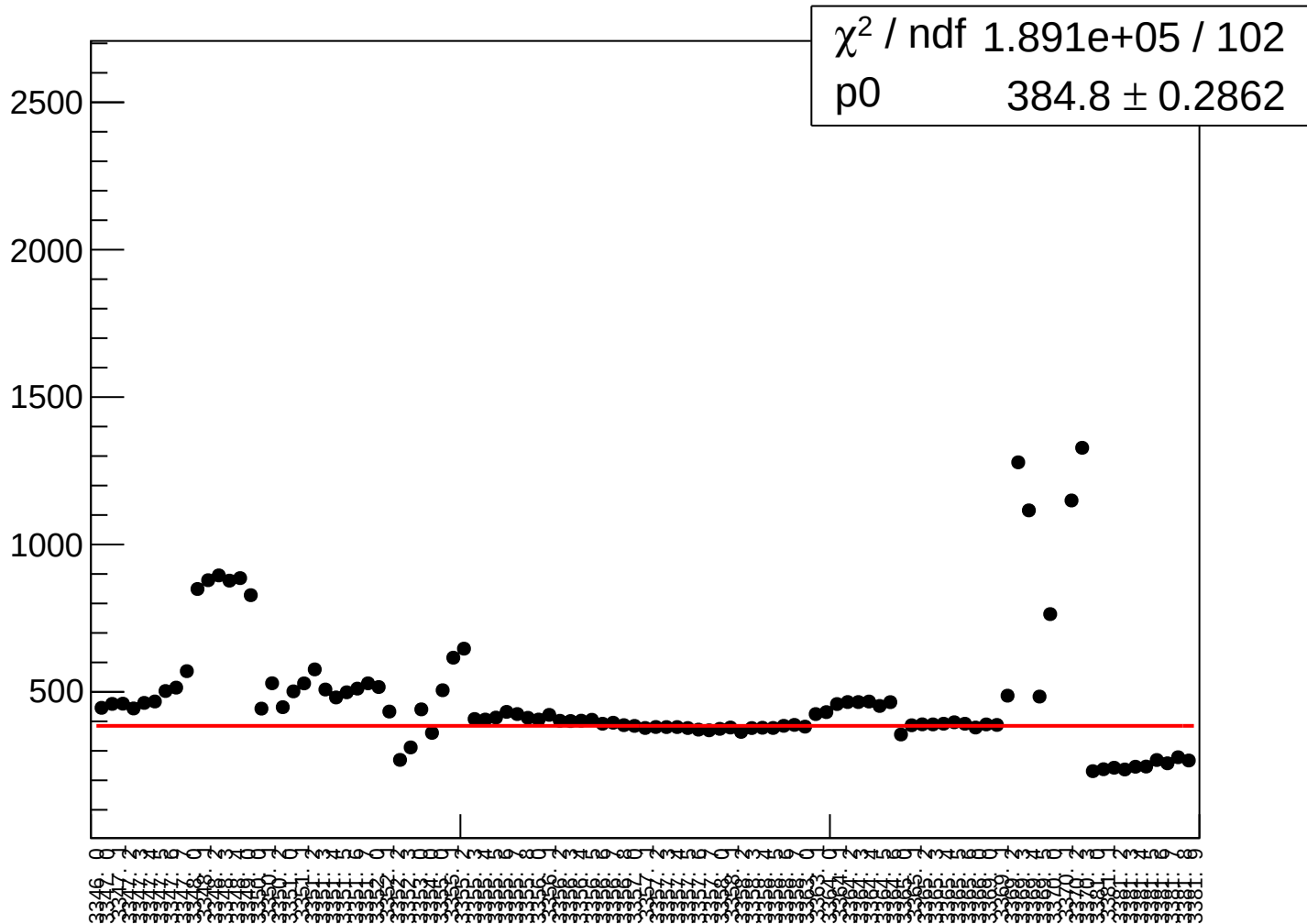
asym_right_dd_rms vs run



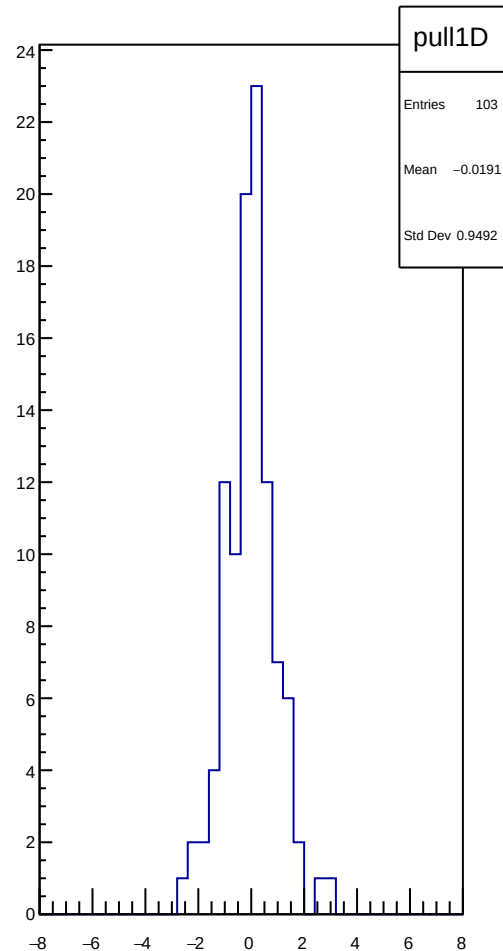
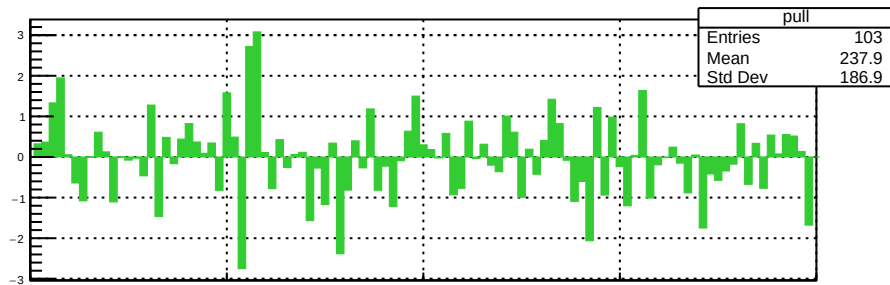
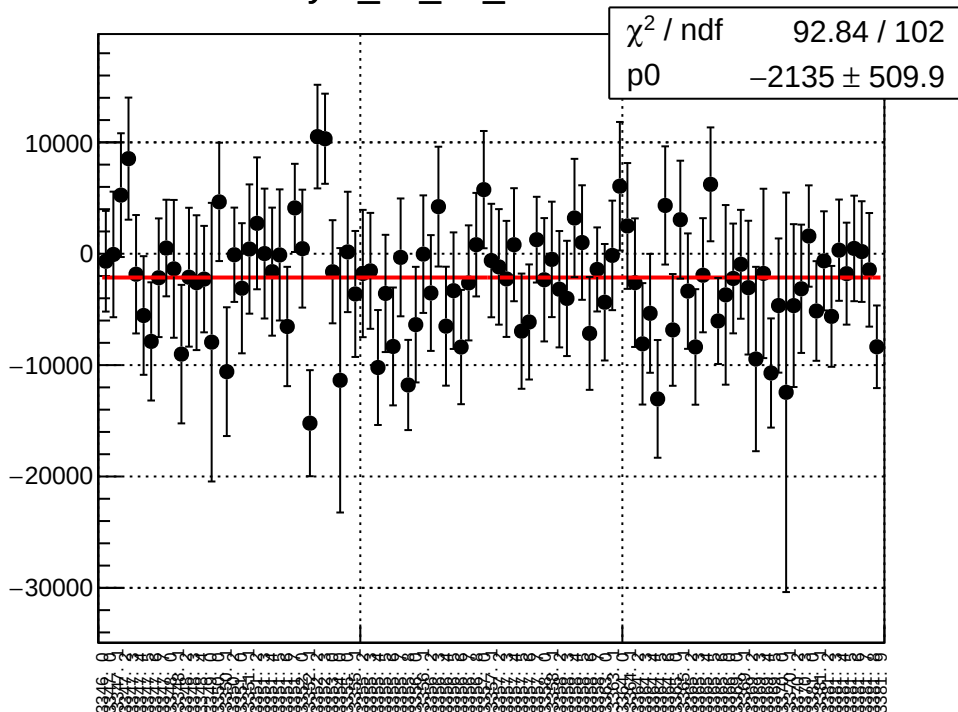
asym_us_avg_mean vs run



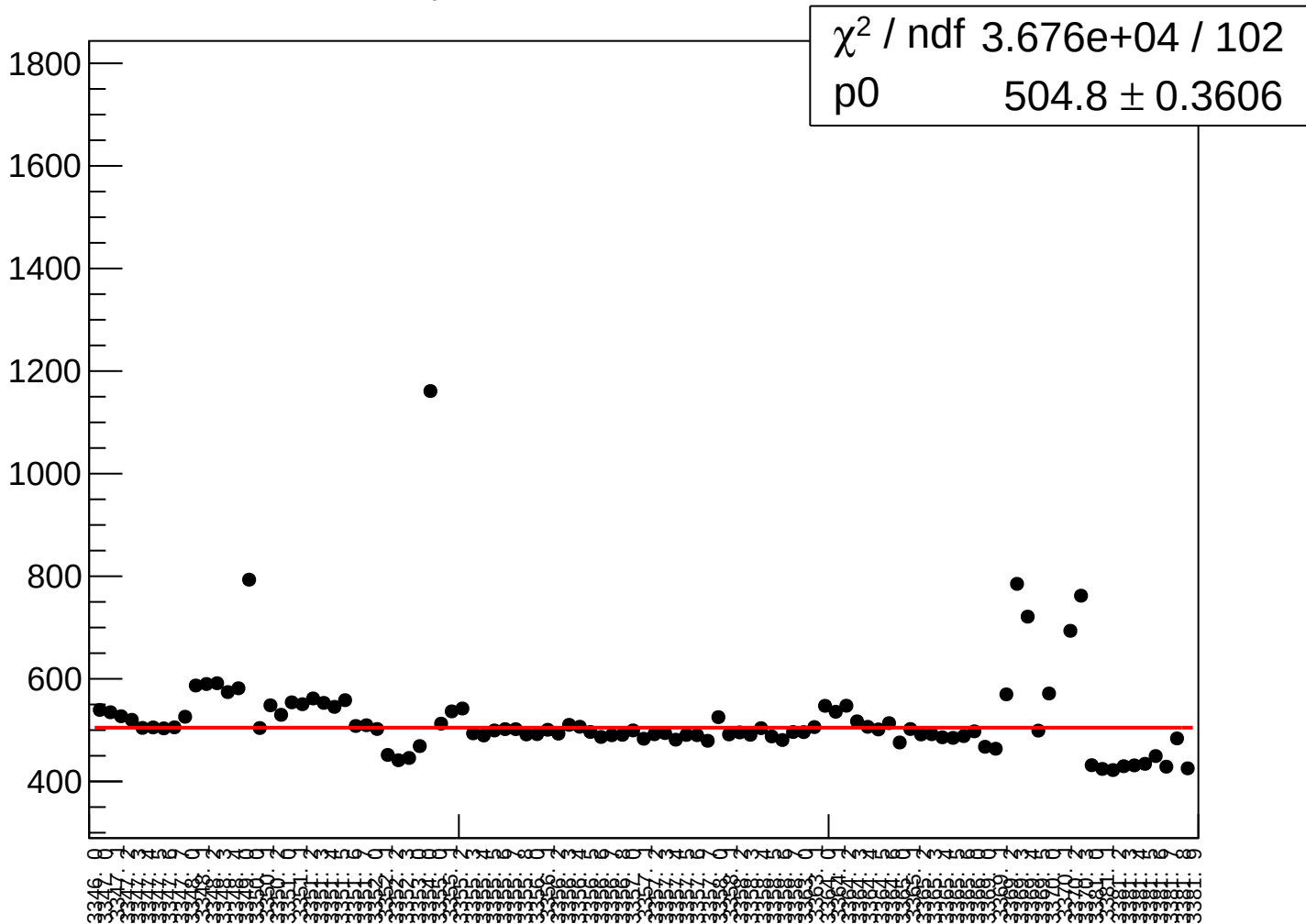
asym_us_avg_rms vs run



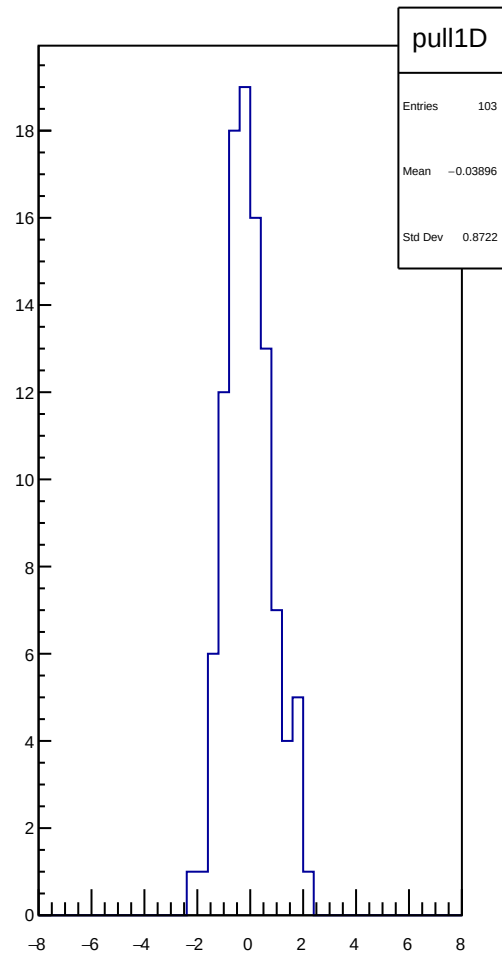
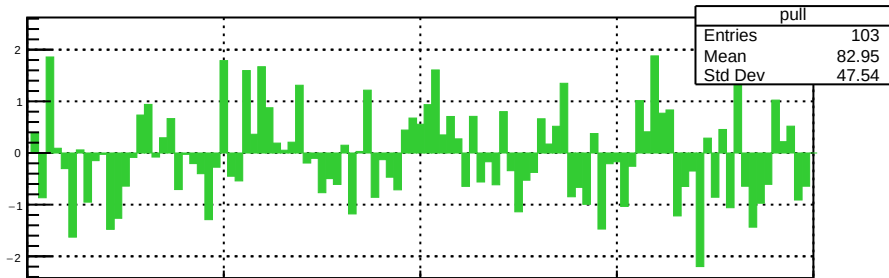
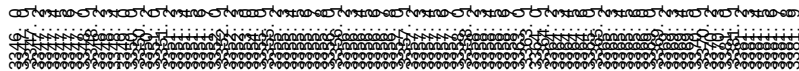
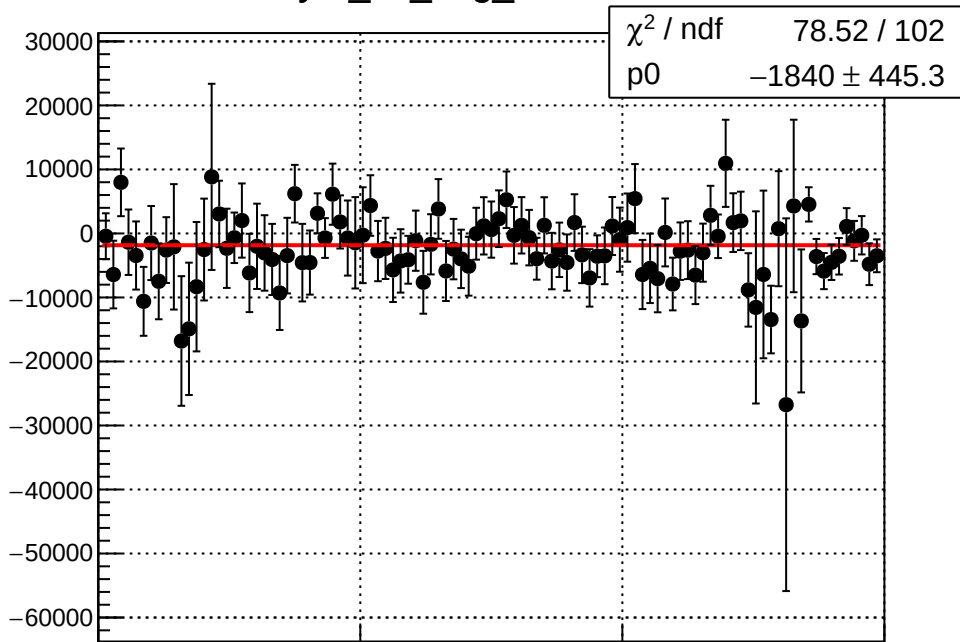
asym_us_dd_mean vs run



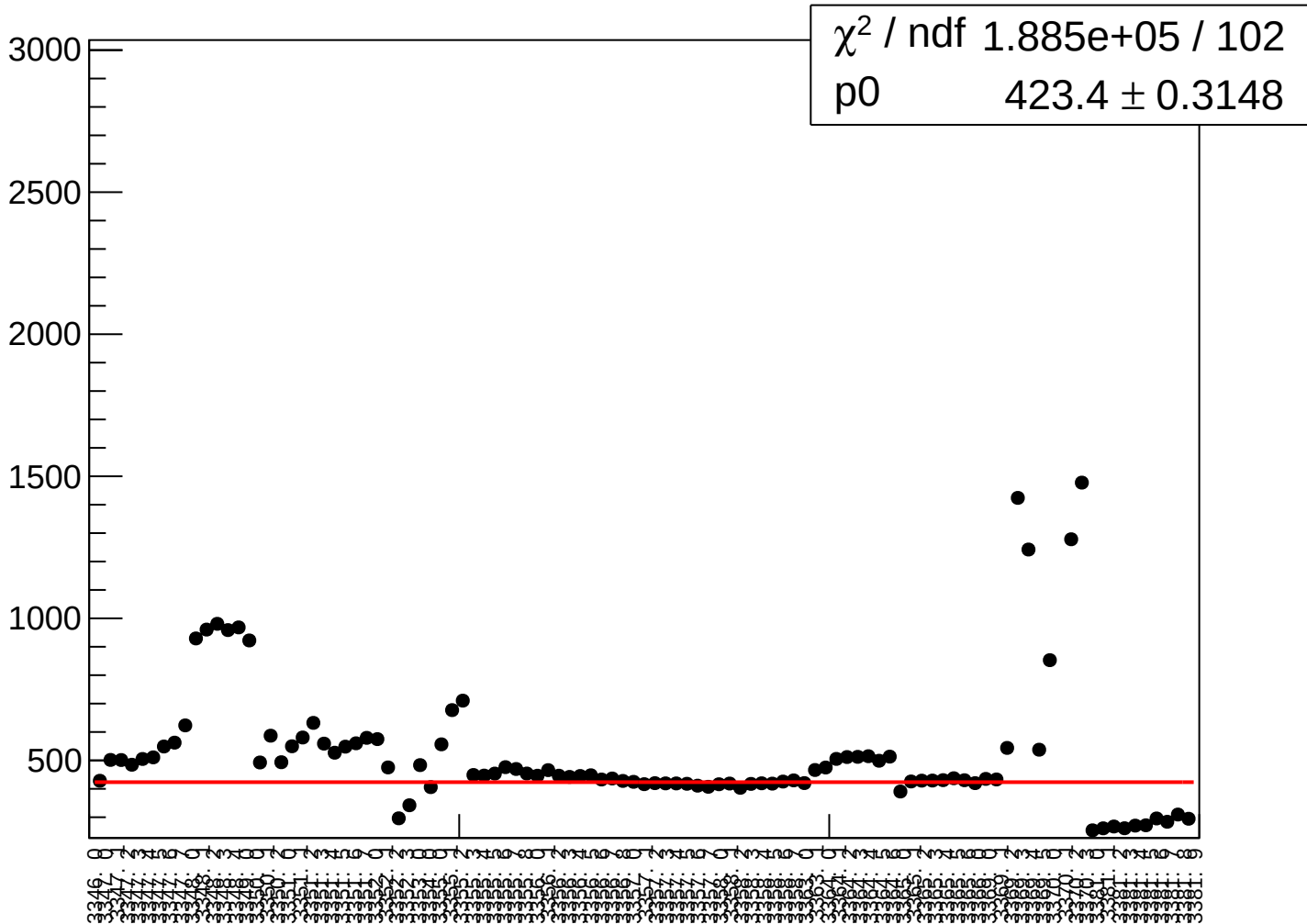
asym_us_dd_rms vs run



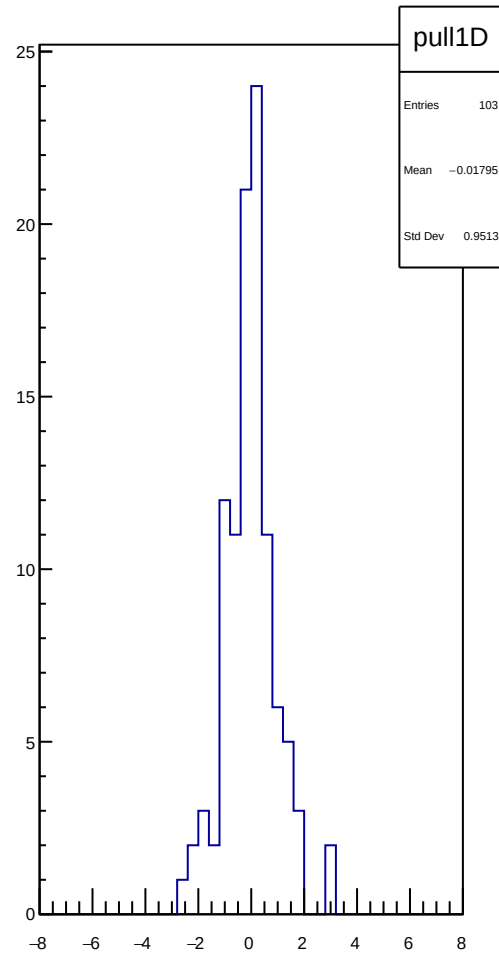
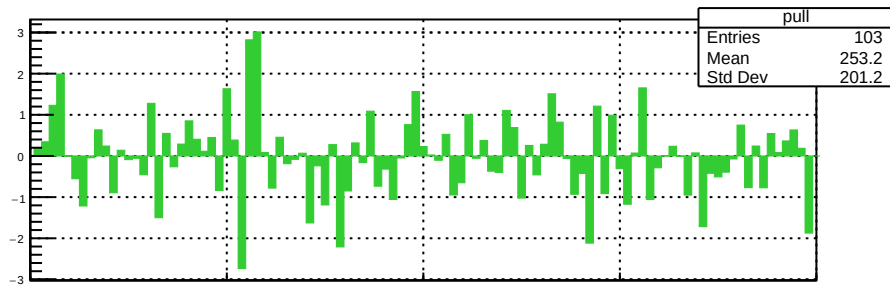
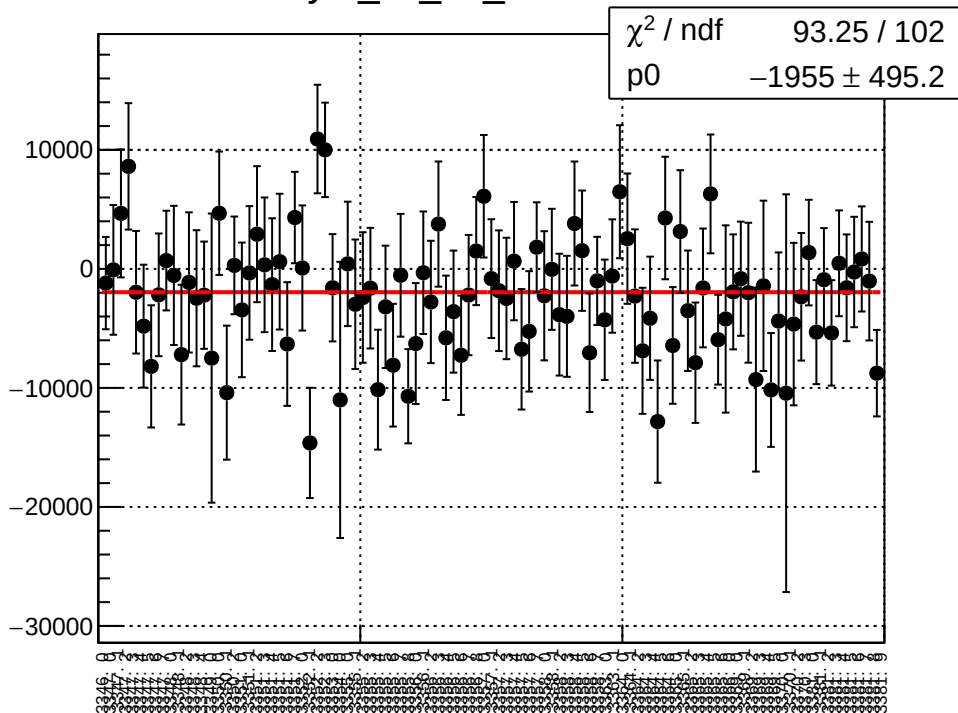
asym_ds_avg_mean vs run



asym_ds_avg_rms vs run



asym_ds_dd_mean vs run



asym_ds_dd_rms vs run

