

## Cycle 1, Diffs

Entries: 2835

Mean: 0.0062 +/- 0.0037

Std Dev: 0.1990 +/- 0.0026

Entries: 3941

Mean: 0.1242 +/- 0.0046

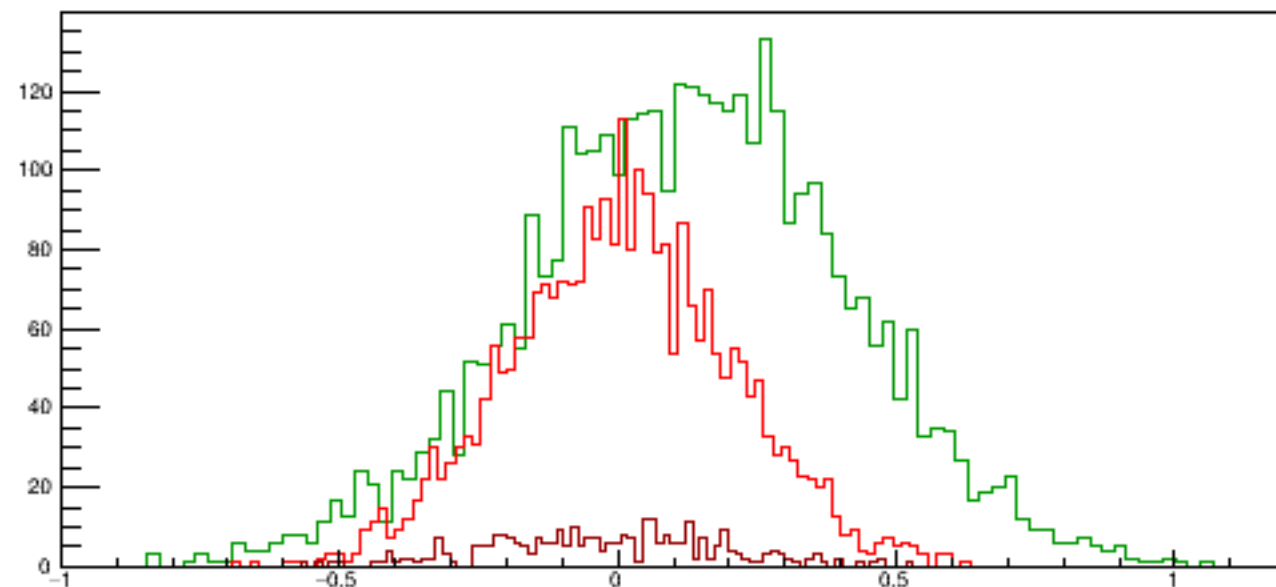
Std Dev: 0.2888 +/- 0.0033

Entries: 300

Mean: -0.0236 +/- 0.0117

Std Dev: 0.2026 +/- 0.0083

Run 4591 quartetwise, Diffs



## Cycle 1, Sums

Entries: 2835

Mean: 12.4461 +/- 0.0054

Std Dev: 0.2873 +/- 0.0038

Entries: 3941

Mean: 21.1095 +/- 0.0077

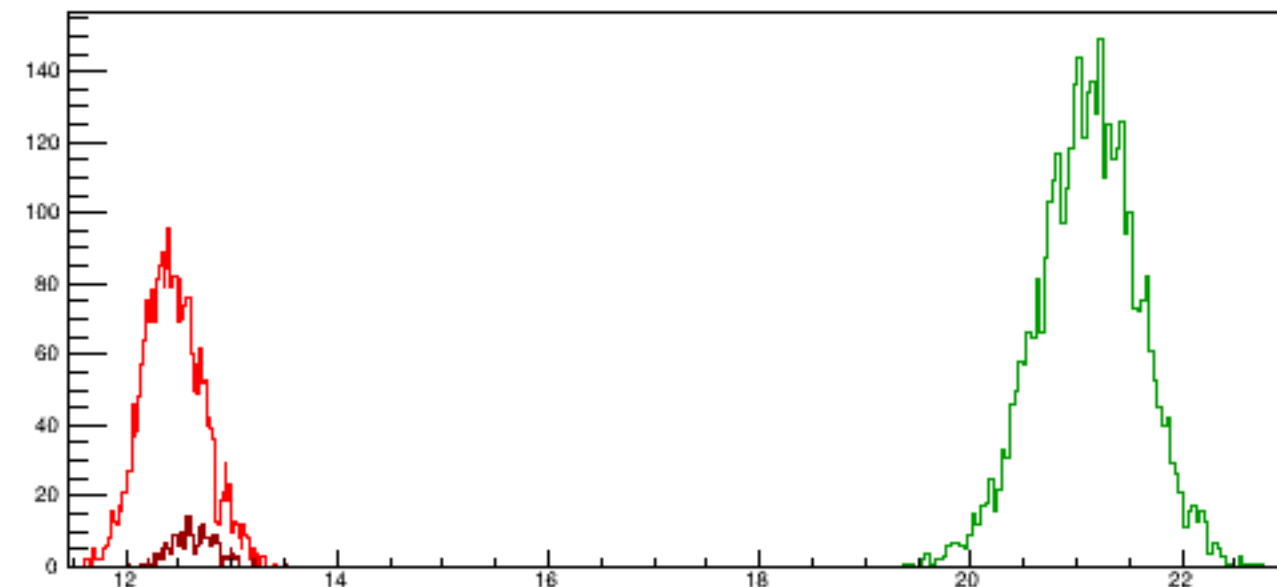
Std Dev: 0.4815 +/- 0.0054

Entries: 300

Mean: 12.6451 +/- 0.0126

Std Dev: 0.2189 +/- 0.0089

Run 4591 quartetwise, Sums



## Cycle 1, Asyms

Entries: 2835

Mean: 0.0007 +/- 0.0004

Std Dev: 0.0232 +/- 0.0003

Entries: 3941

Mean: 0.0145 +/- 0.0005

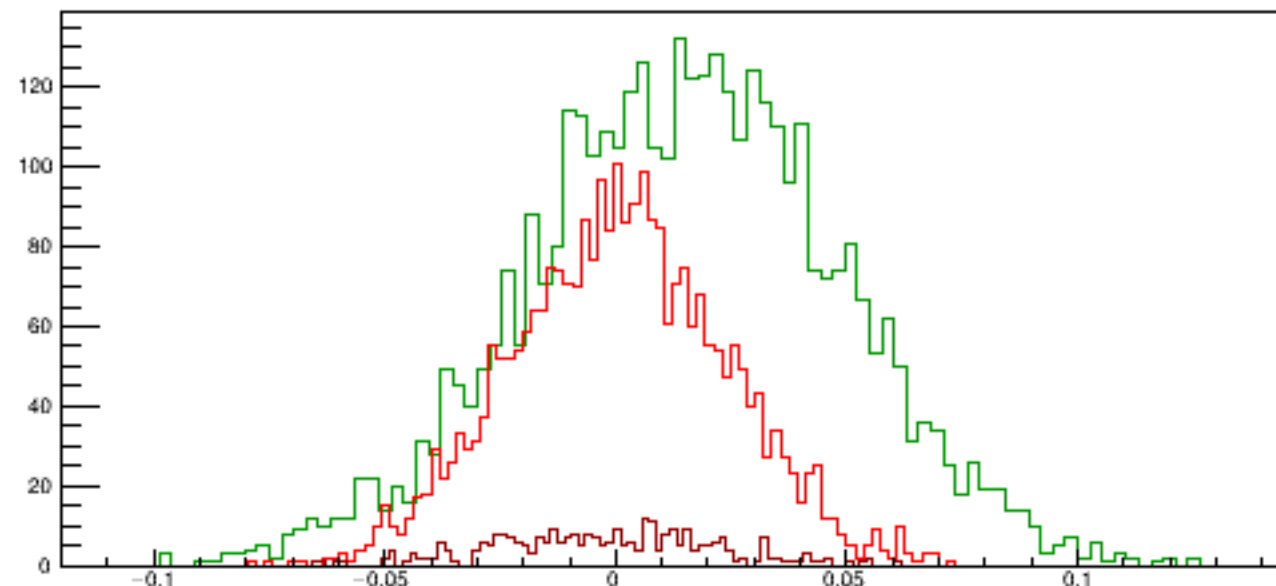
Std Dev: 0.0338 +/- 0.0004

Entries: 300

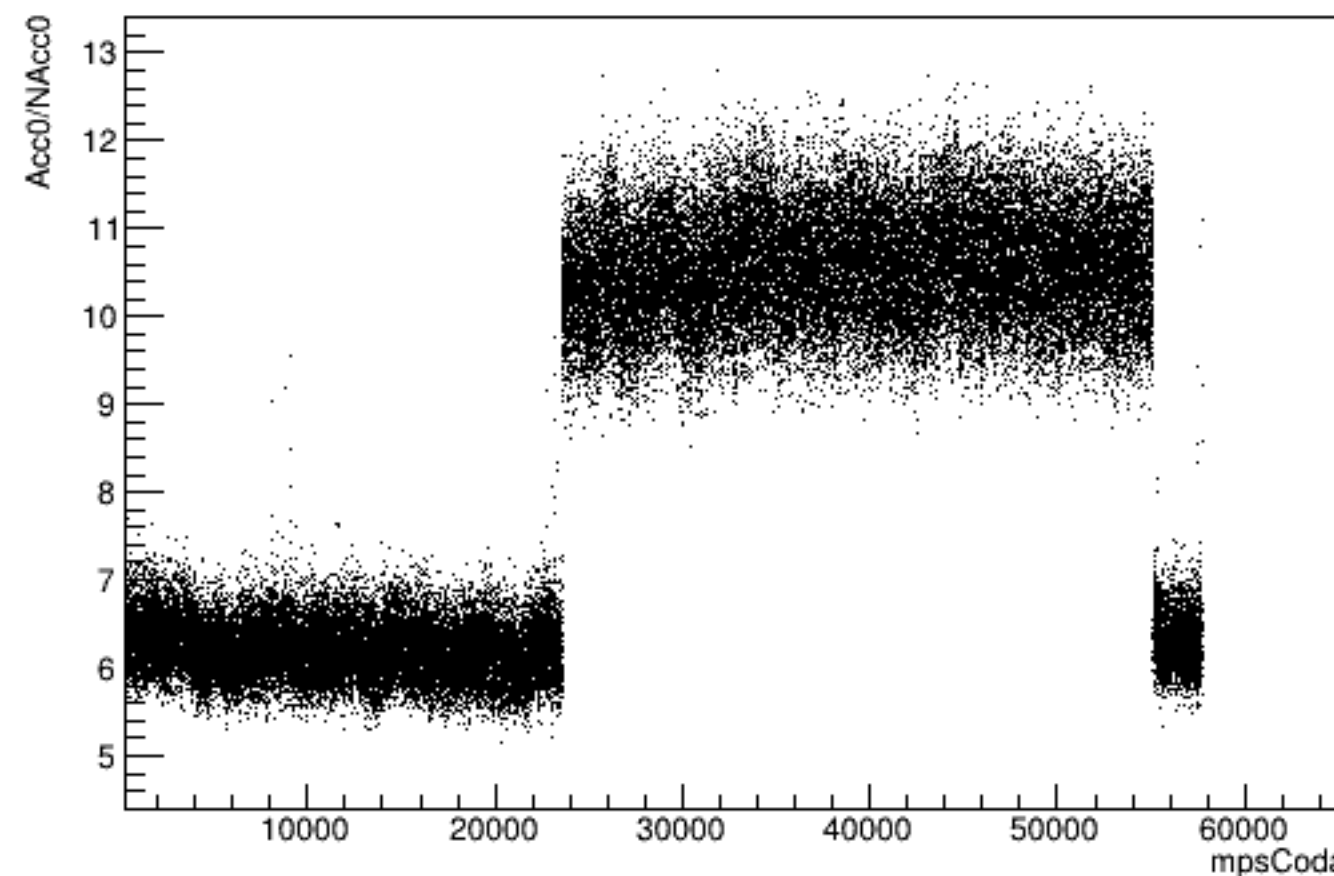
Mean: -0.0028 +/- 0.0014

Std Dev: 0.0237 +/- 0.0010

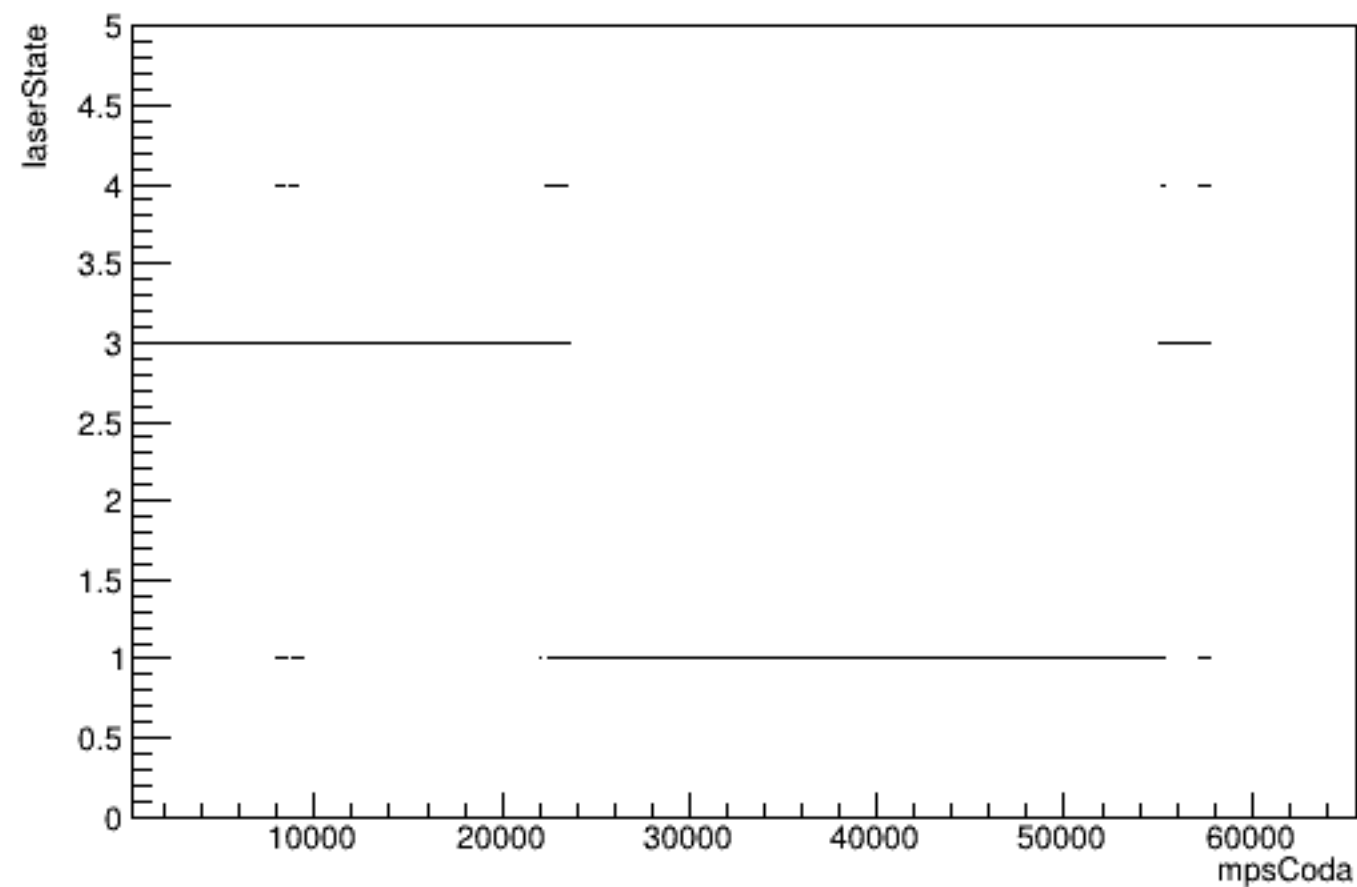
Run 4591 quartetwise, Asyms



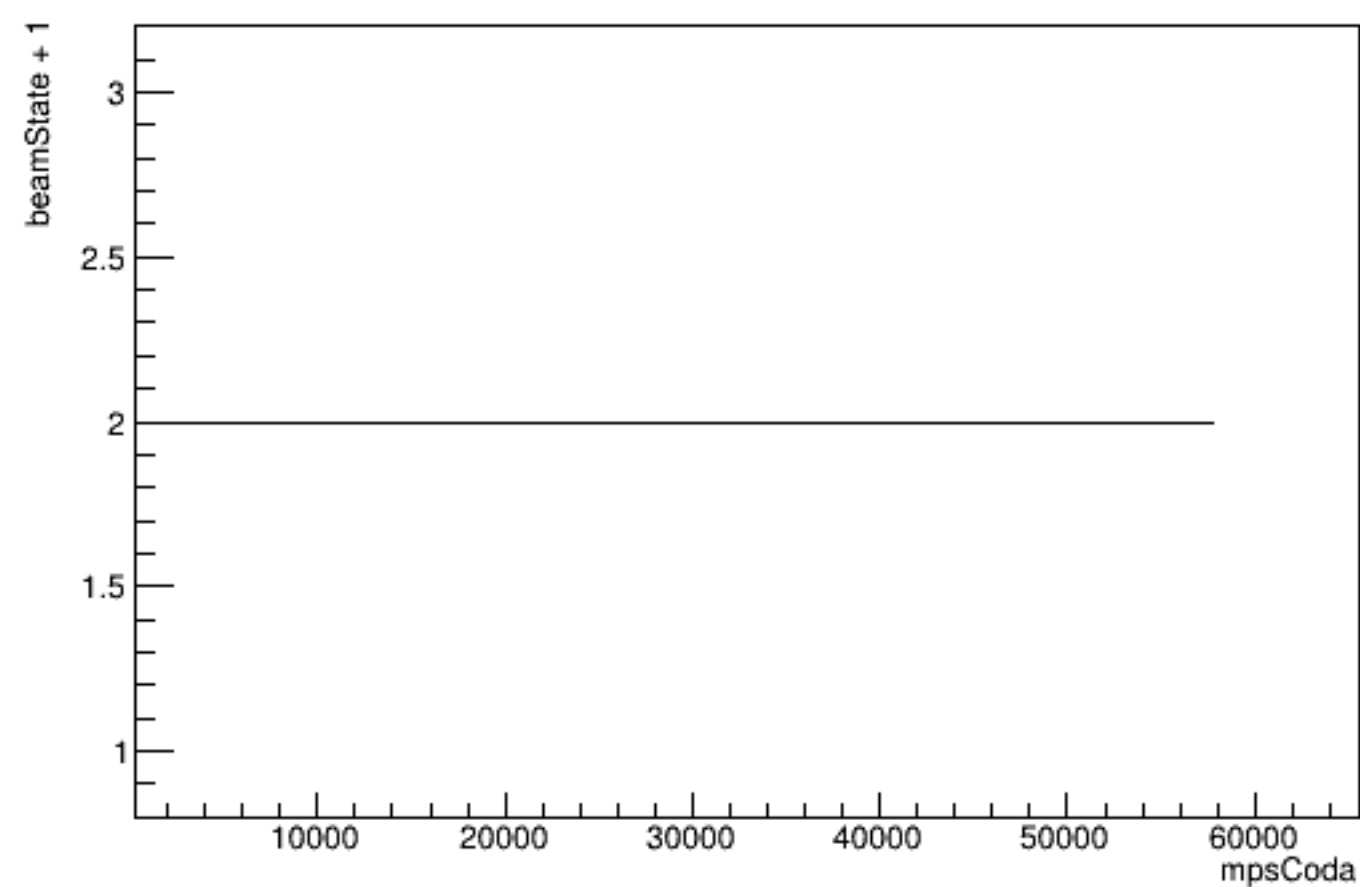
Acc0/NAcc0:mpsCoda {mpsCoda>=257 && mpsCoda<=57712 && beamState==1}



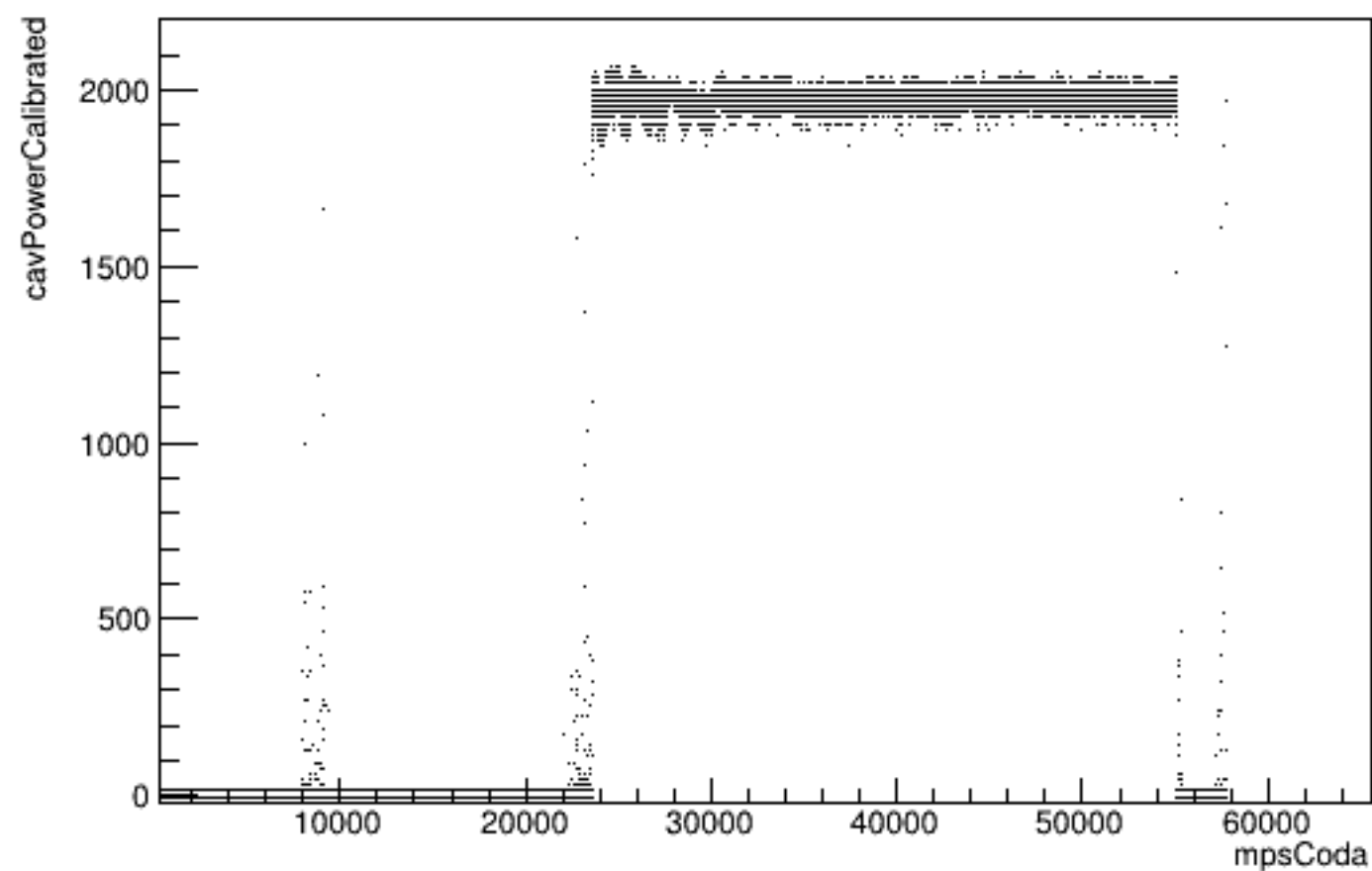
laserState:mpsCoda {mpsCoda&gt;=257 &amp;&amp; mpsCoda&lt;=57712}



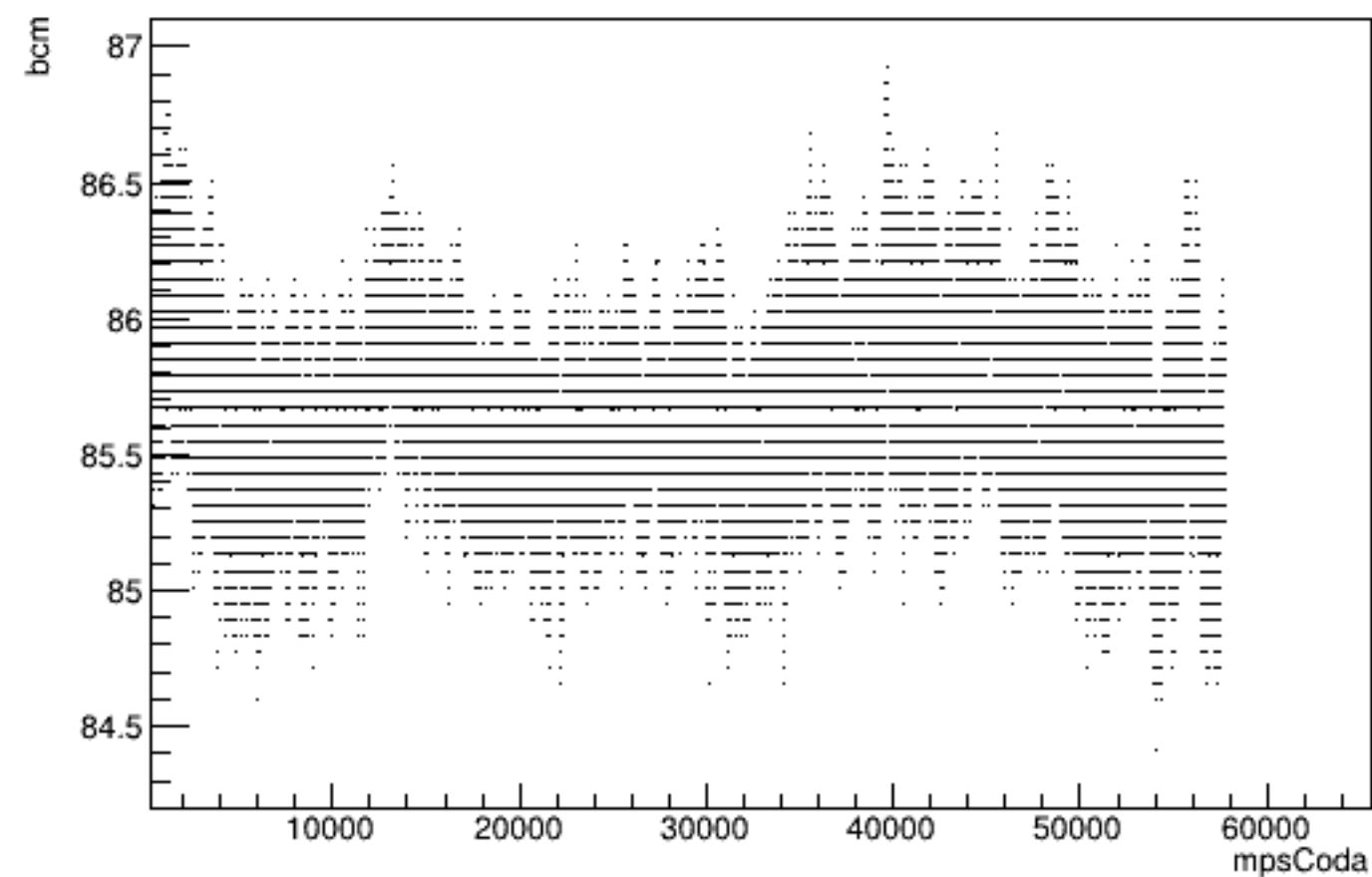
beamState + 1:mpsCoda {mpsCoda&gt;=257 &amp;&amp; mpsCoda&lt;=57712}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=257 &amp;&amp; mpsCoda&lt;=57712}



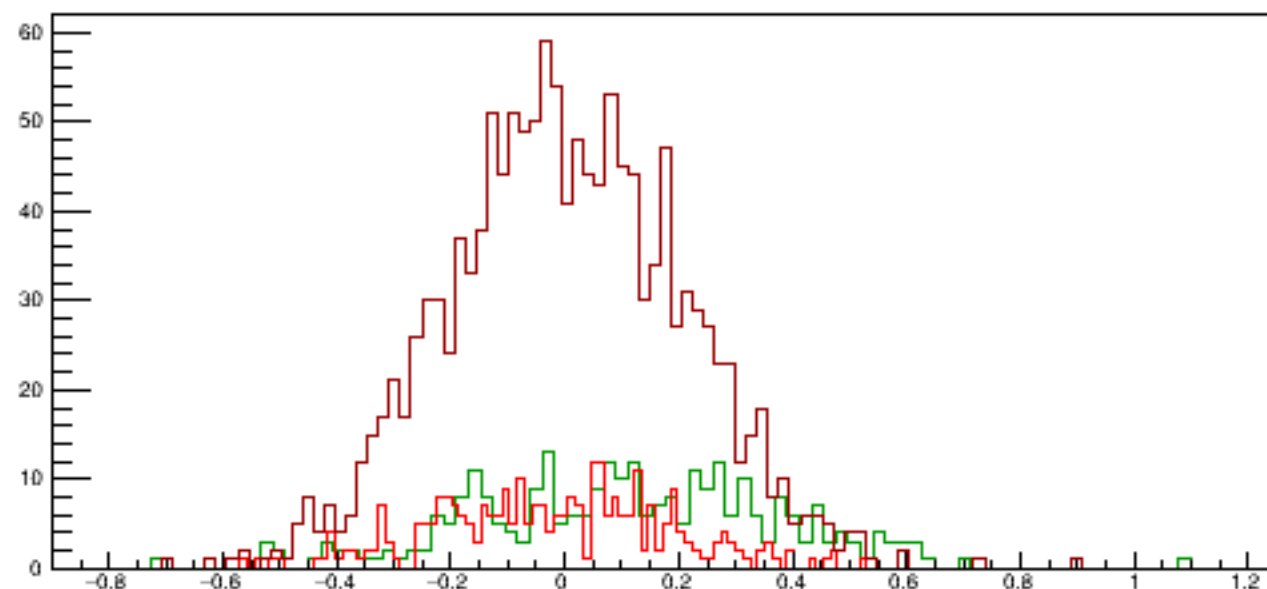
bcm:mpsCoda {mpsCoda&gt;=257 &amp;&amp; mpsCoda&lt;=57712}



## Cycle 2, Diffs

| Entries: 300               | Entries: 289               | Entries: 1390              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0236 +/- 0.0117   | Mean: 0.1110 +/- 0.0157    | Mean: 0.0020 +/- 0.0055    |
| Std Dev: 0.2026 +/- 0.0083 | Std Dev: 0.2673 +/- 0.0111 | Std Dev: 0.2056 +/- 0.0039 |

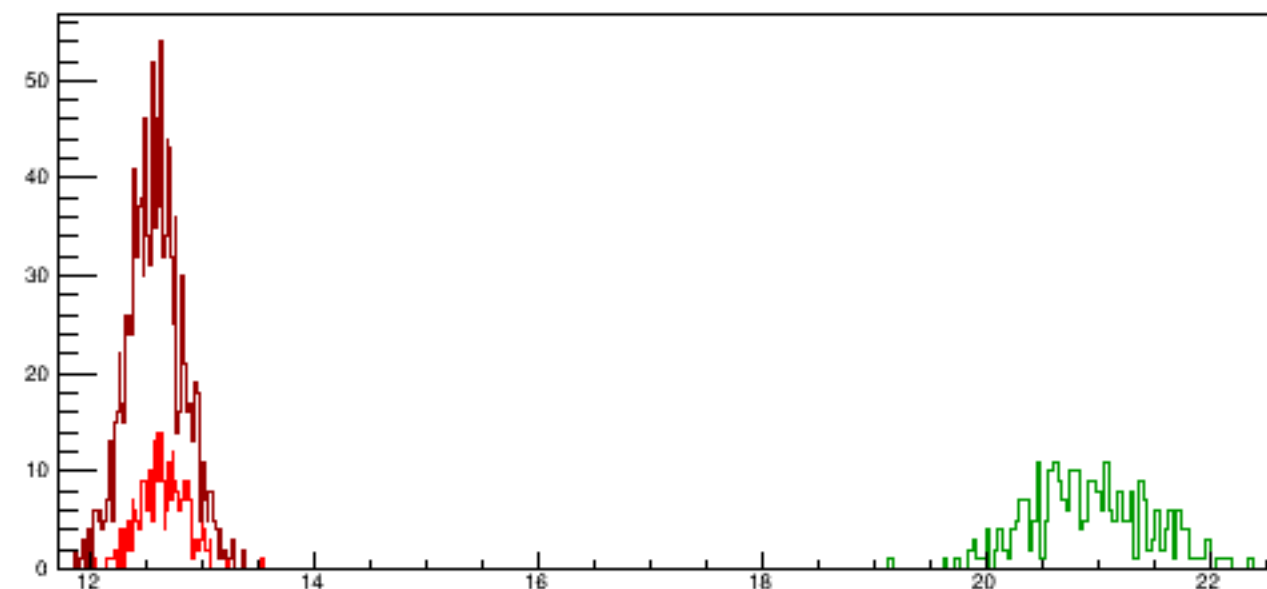
Run 4591 quartetwise, Diffs



## Cycle 2, Sums

| Entries: 300               | Entries: 289               | Entries: 1390              |
|----------------------------|----------------------------|----------------------------|
| Mean: 12.6451 +/- 0.0126   | Mean: 20.9231 +/- 0.0314   | Mean: 12.5718 +/- 0.0066   |
| Std Dev: 0.2189 +/- 0.0089 | Std Dev: 0.5331 +/- 0.0222 | Std Dev: 0.2455 +/- 0.0047 |

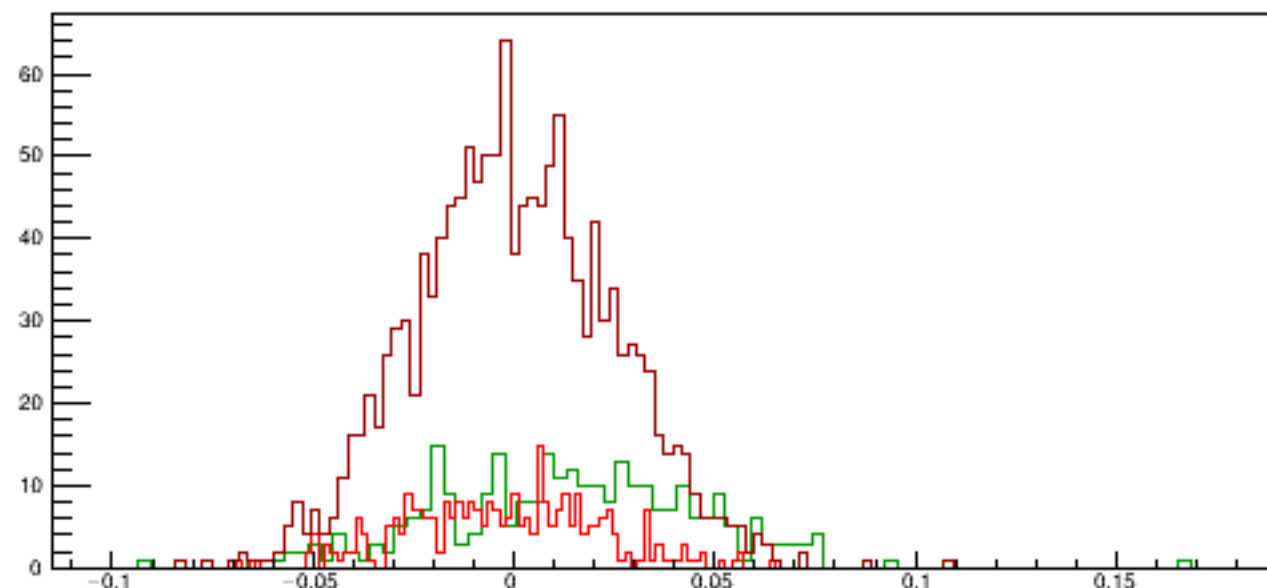
Run 4591 quartetwise, Sums



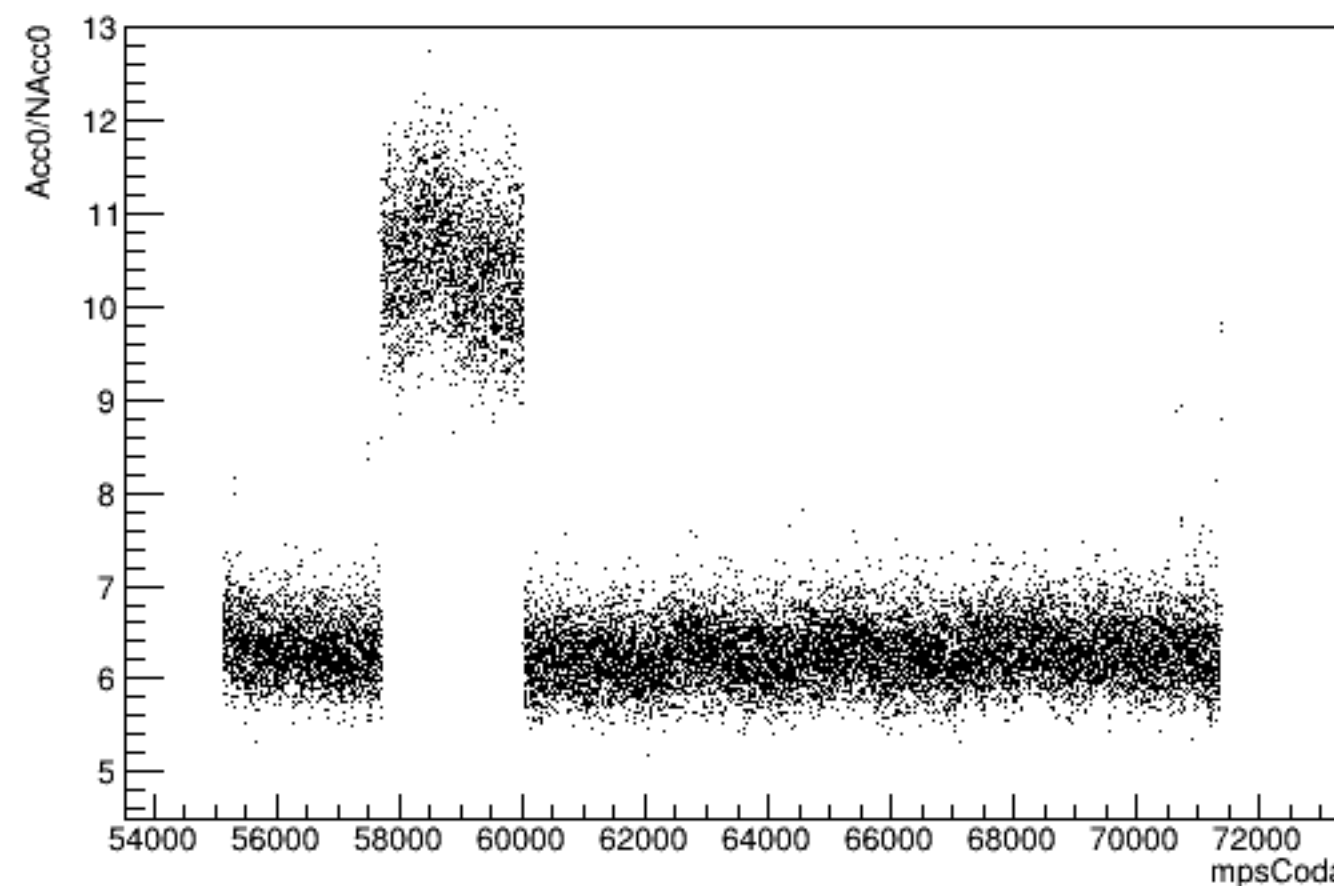
## Cycle 2, Asyms

| Entries: 300               | Entries: 289               | Entries: 1390              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0028 +/- 0.0014   | Mean: 0.0135 +/- 0.0019    | Mean: 0.0002 +/- 0.0007    |
| Std Dev: 0.0244 +/- 0.0010 | Std Dev: 0.0328 +/- 0.0014 | Std Dev: 0.0247 +/- 0.0005 |

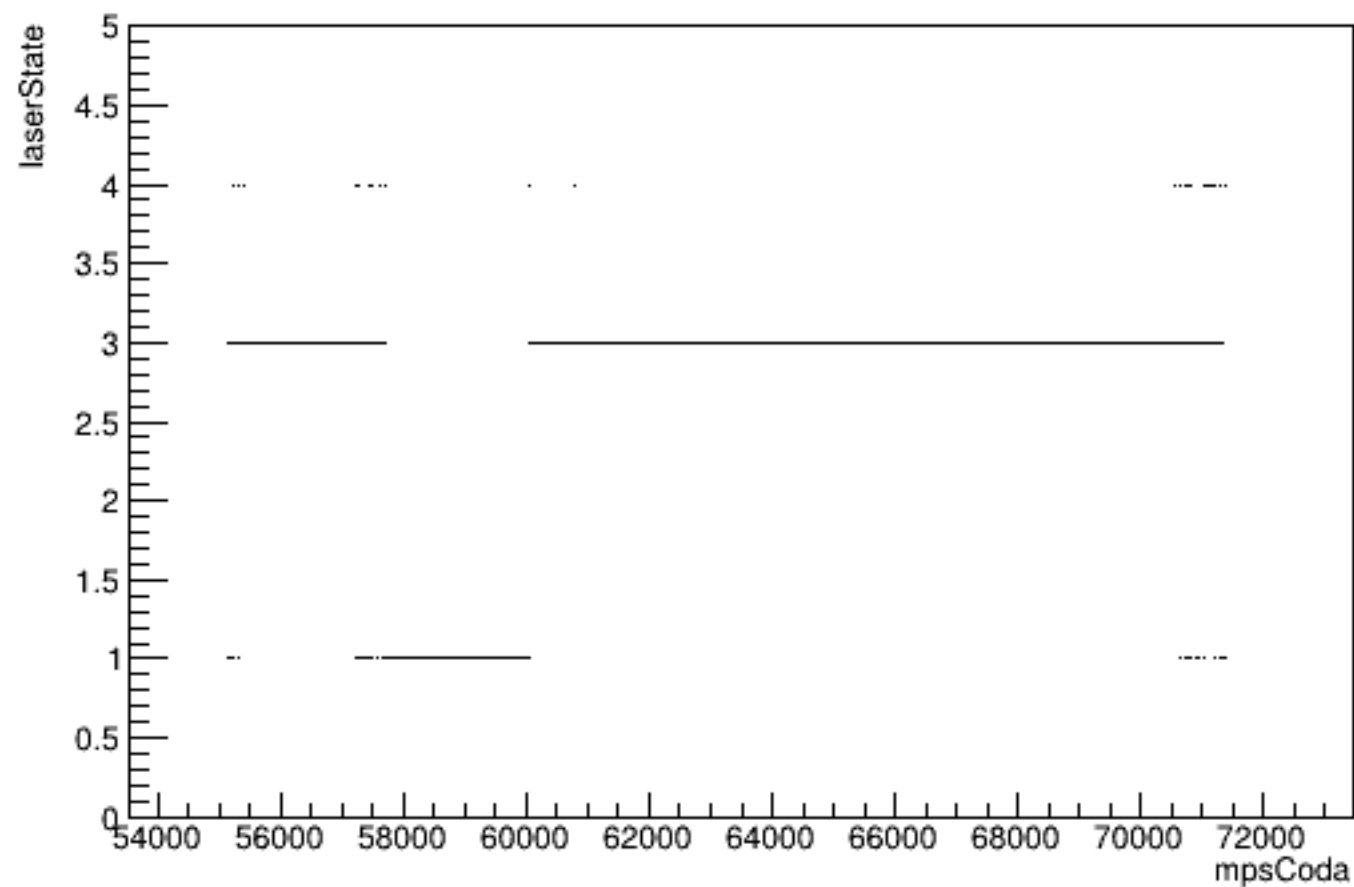
Run 4591 quartetwise, Asyms



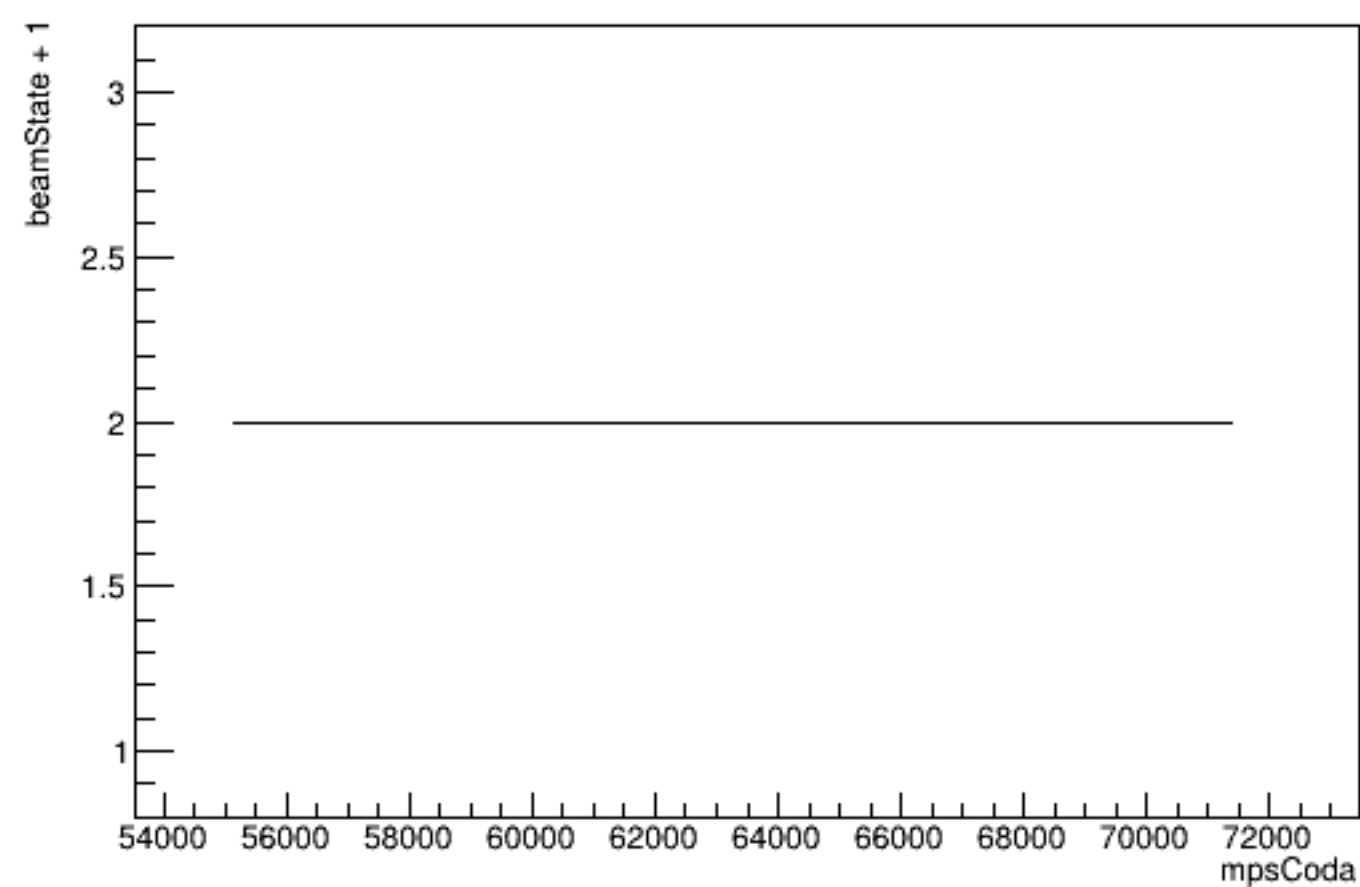
Acc0/NAcc0:mpsCoda {mpsCoda>=55121 && mpsCoda<=71368 && beamState==1}



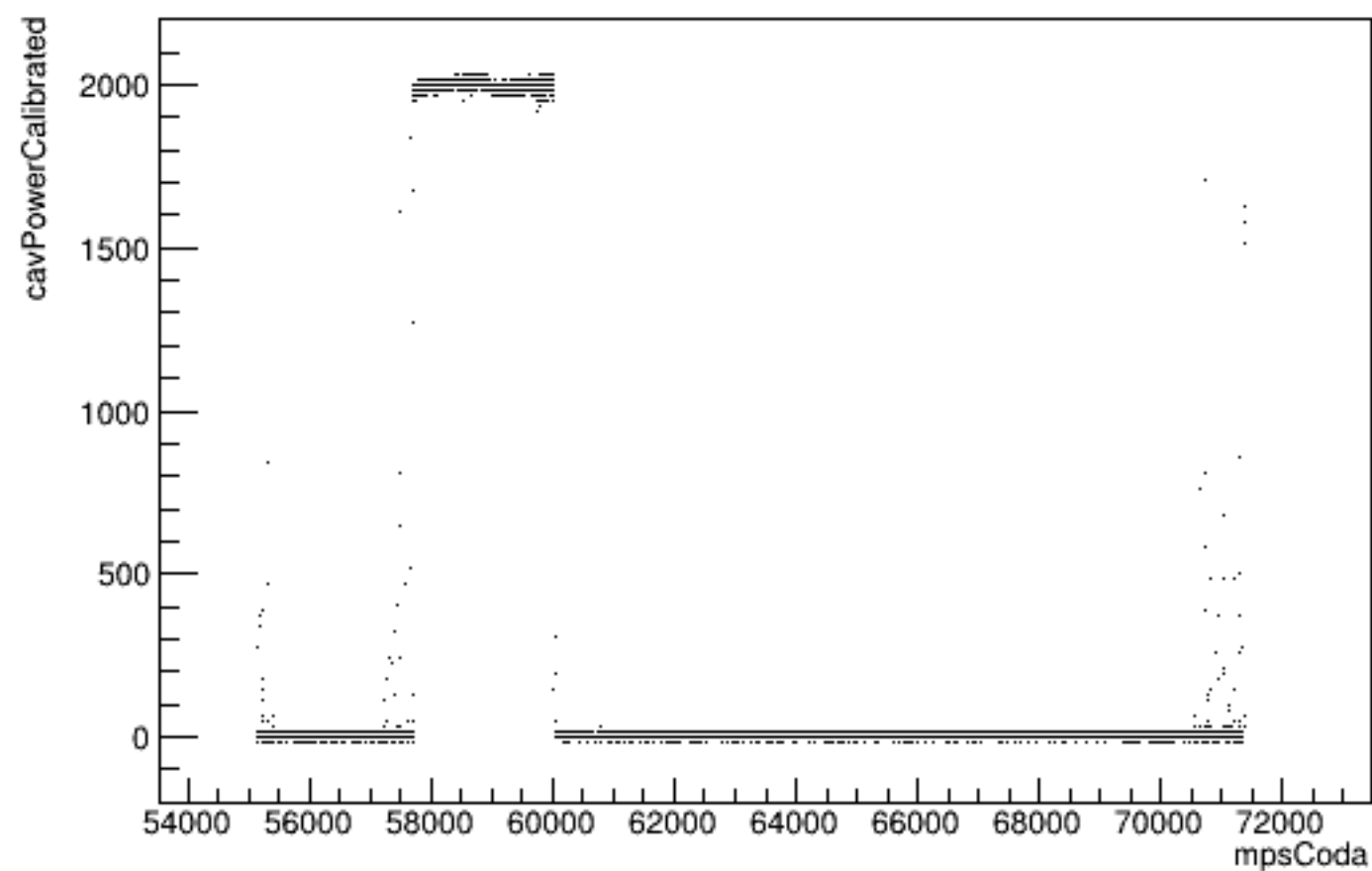
laserState:mpsCoda {mpsCoda&gt;=55121 &amp;&amp; mpsCoda&lt;=71368}



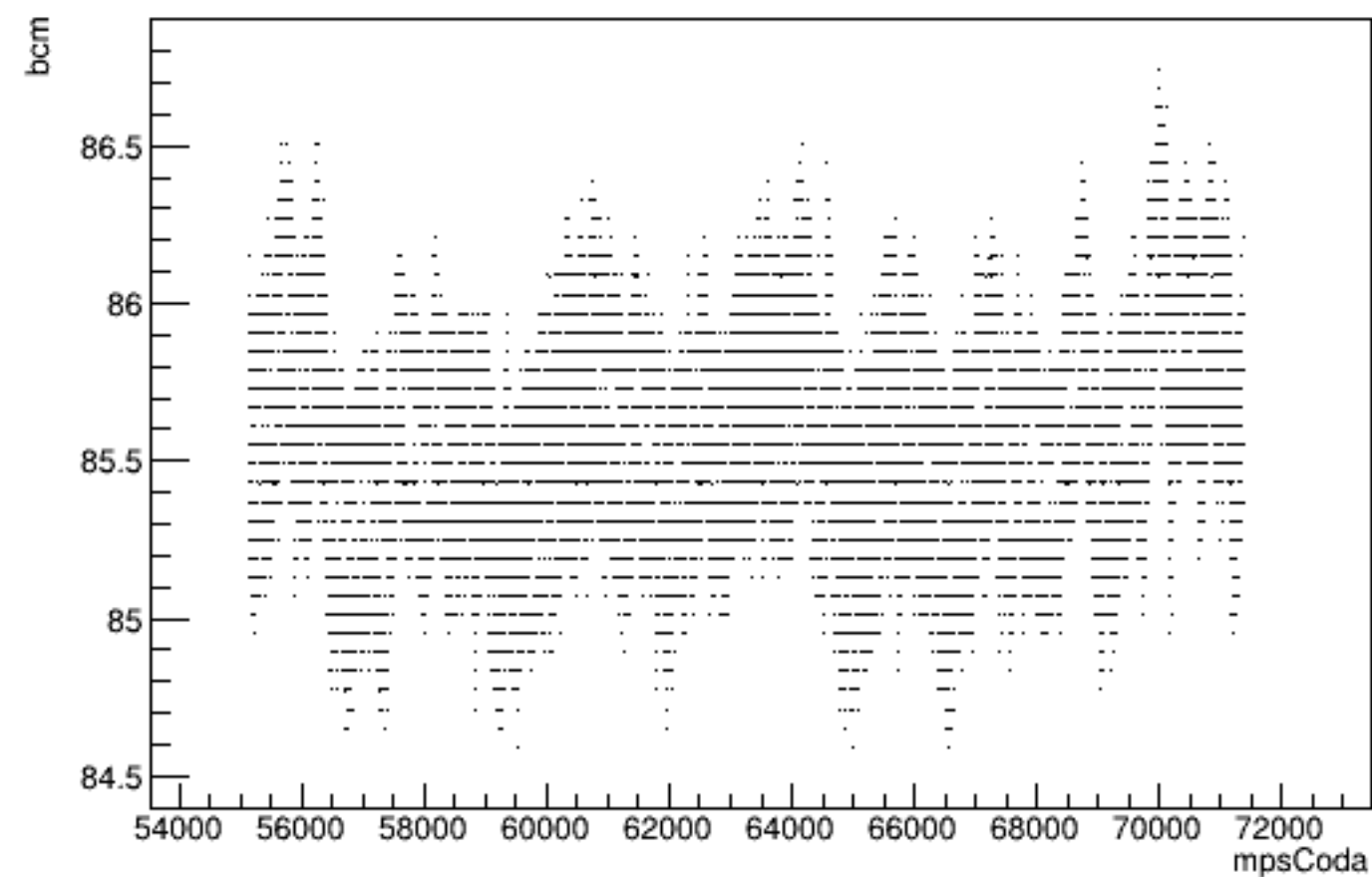
beamState + 1:mpsCoda {mpsCoda&gt;=55121 &amp;&amp; mpsCoda&lt;=71368}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=55121 &amp;&amp; mpsCoda&lt;=71368}



bcm:mpsCoda {mpsCoda&gt;=55121 &amp;&amp; mpsCoda&lt;=71368}



## Cycle 3, Diffs

Entries: 1390

Mean: 0.0020 +/- 0.0055

Std Dev: 0.2056 +/- 0.0039

Entries: 4653

Mean: 0.1249 +/- 0.0042

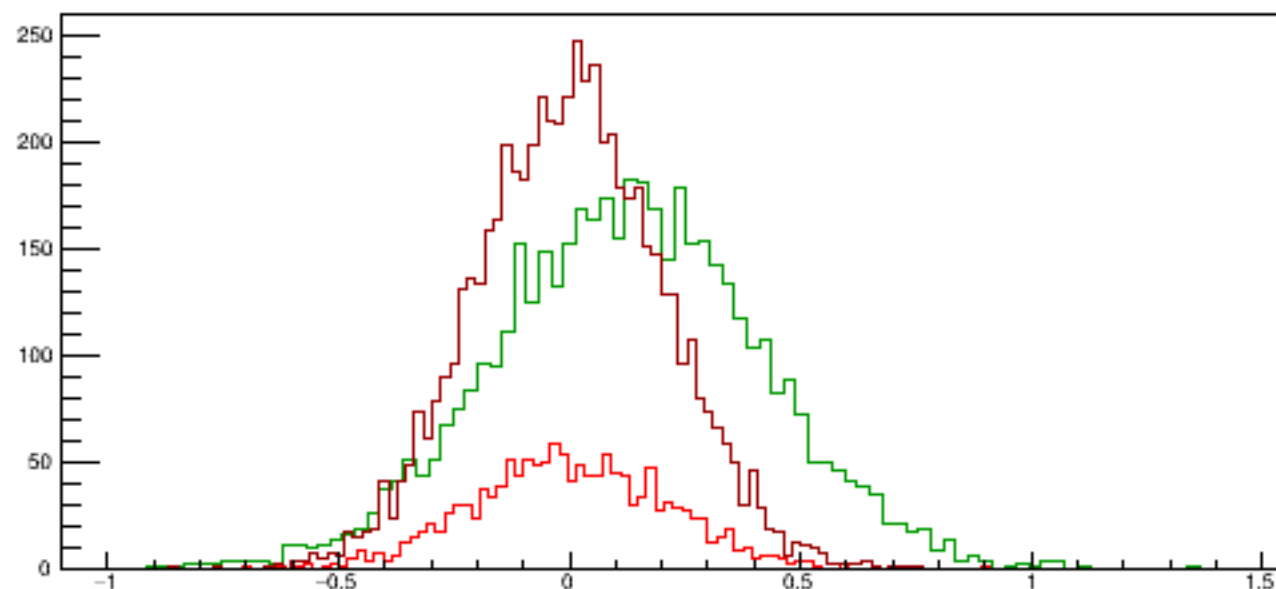
Std Dev: 0.2871 +/- 0.0030

Entries: 5941

Mean: 0.0024 +/- 0.0026

Std Dev: 0.2004 +/- 0.0018

Run 4591 quartetwise, Diffs



## Cycle 3, Sums

Entries: 1390

Mean: 12.5718 +/- 0.0066

Std Dev: 0.2455 +/- 0.0047

Entries: 4653

Mean: 20.9204 +/- 0.0072

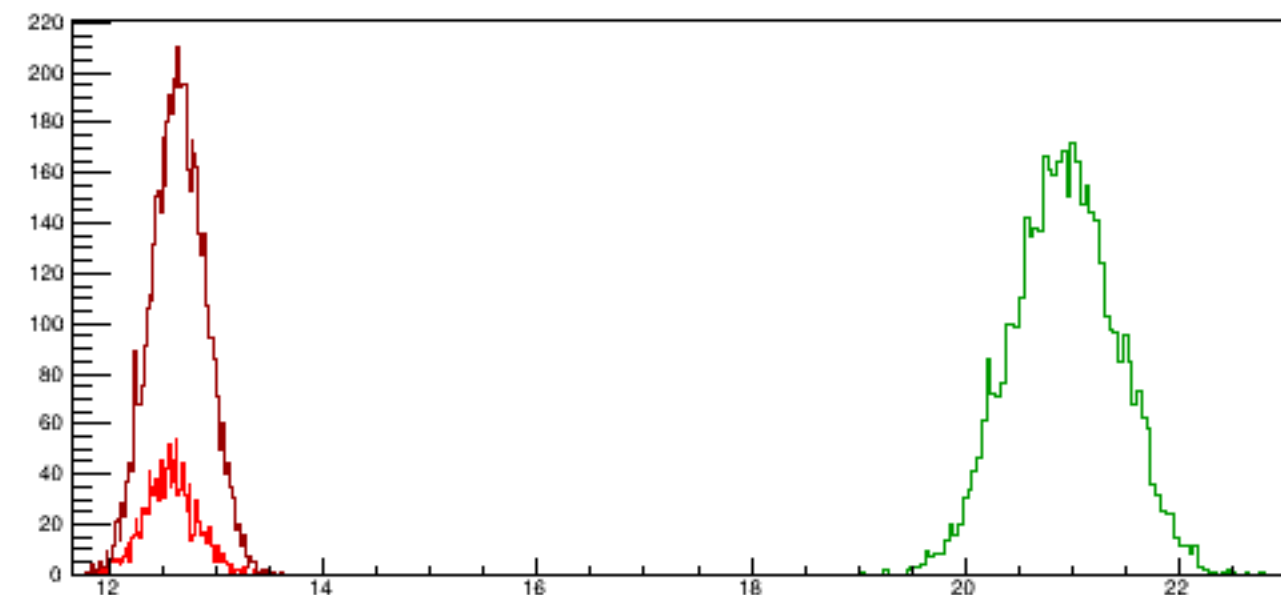
Std Dev: 0.4921 +/- 0.0051

Entries: 5941

Mean: 12.6441 +/- 0.0033

Std Dev: 0.2566 +/- 0.0024

Run 4591 quartetwise, Sums



## Cycle 3, Asyms

Entries: 1390

Mean: 0.0002 +/- 0.0007

Std Dev: 0.0247 +/- 0.0005

Entries: 4653

Mean: 0.0150 +/- 0.0005

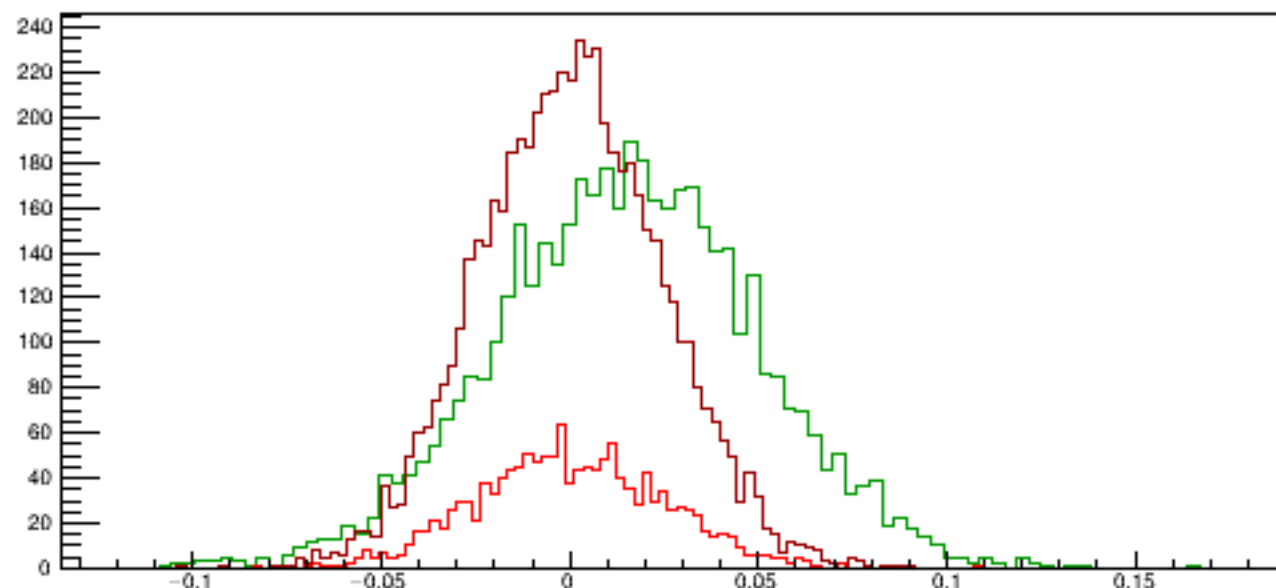
Std Dev: 0.0346 +/- 0.0004

Entries: 5941

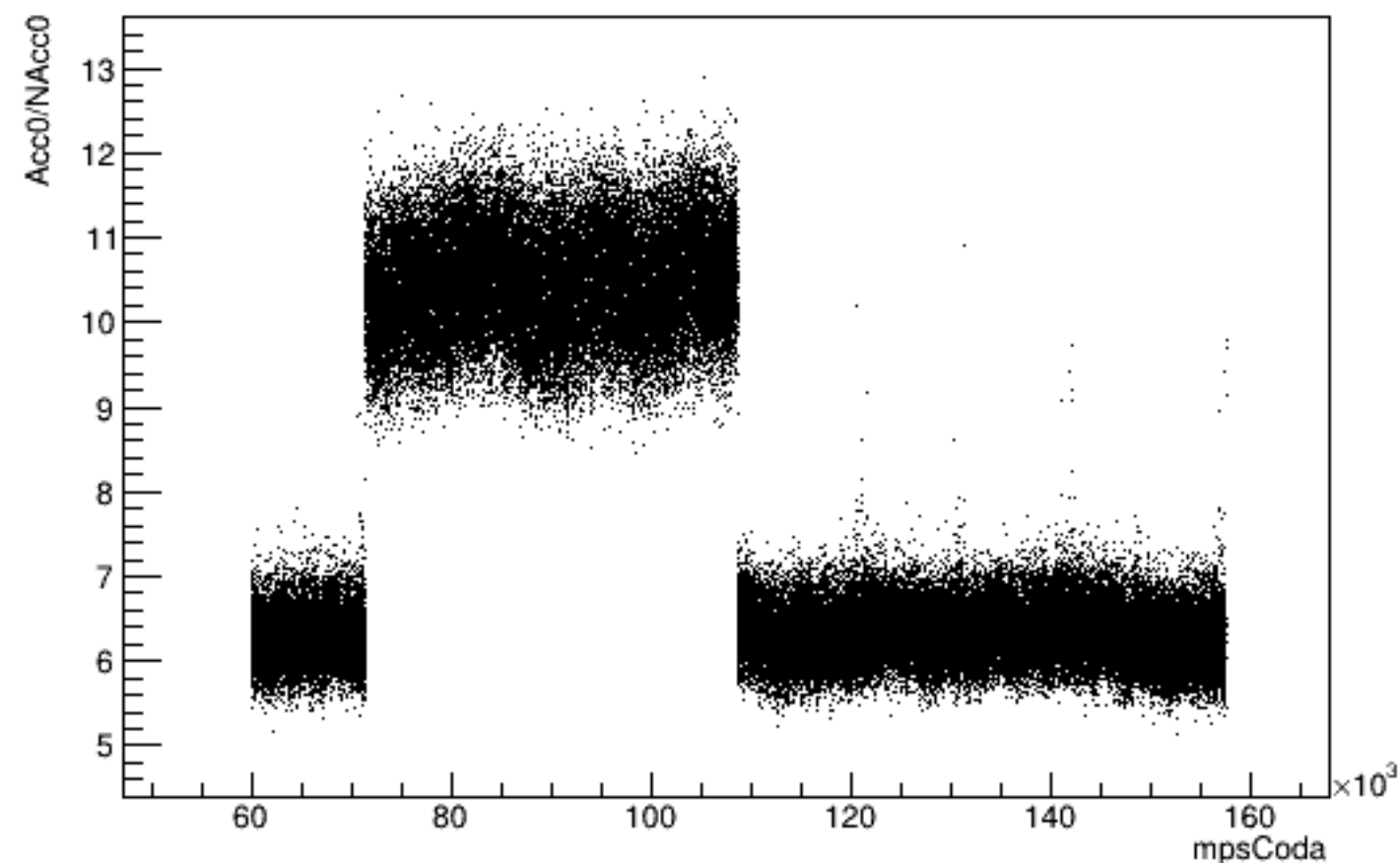
Mean: 0.0003 +/- 0.0003

Std Dev: 0.0241 +/- 0.0002

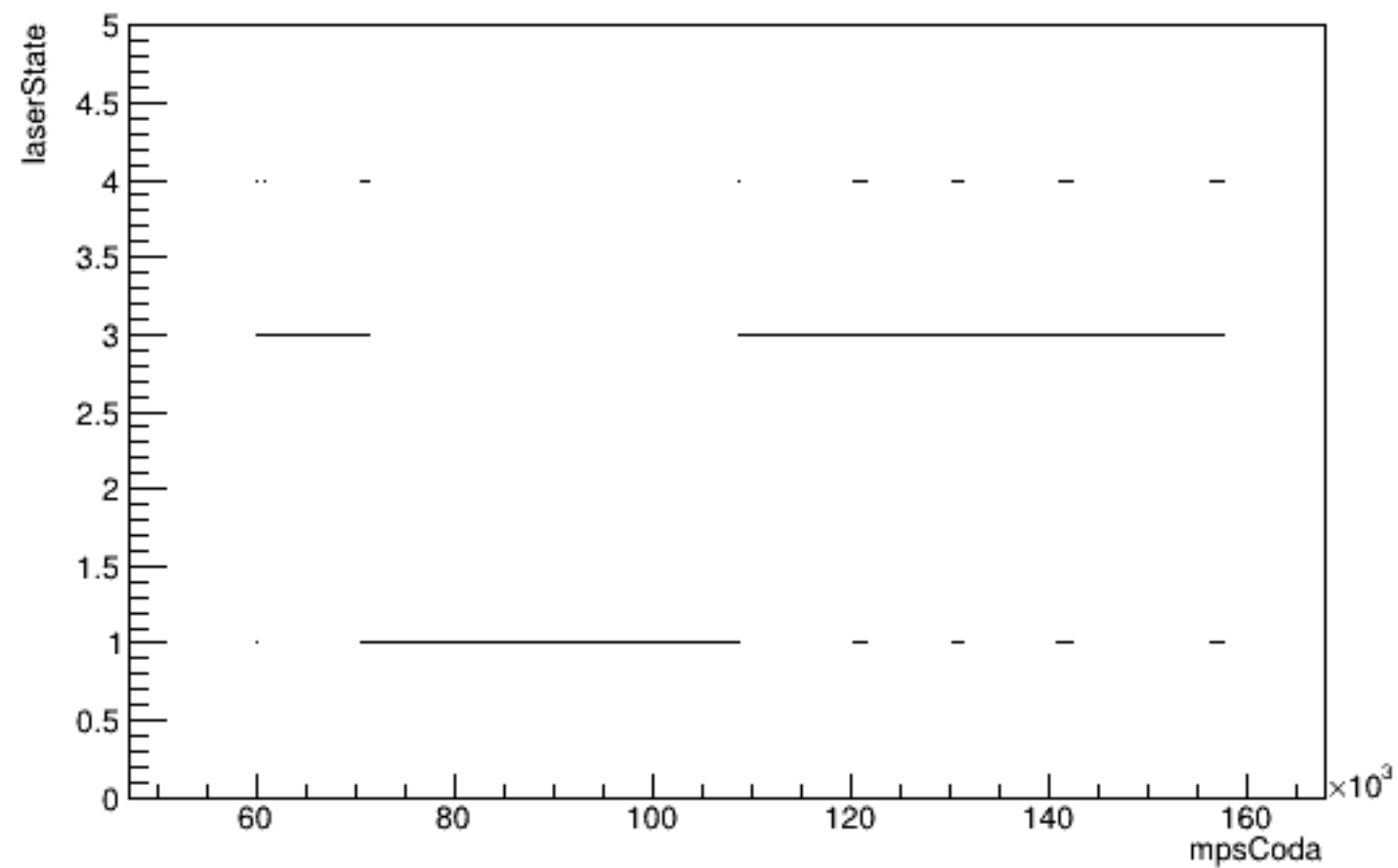
Run 4591 quartetwise, Asyms



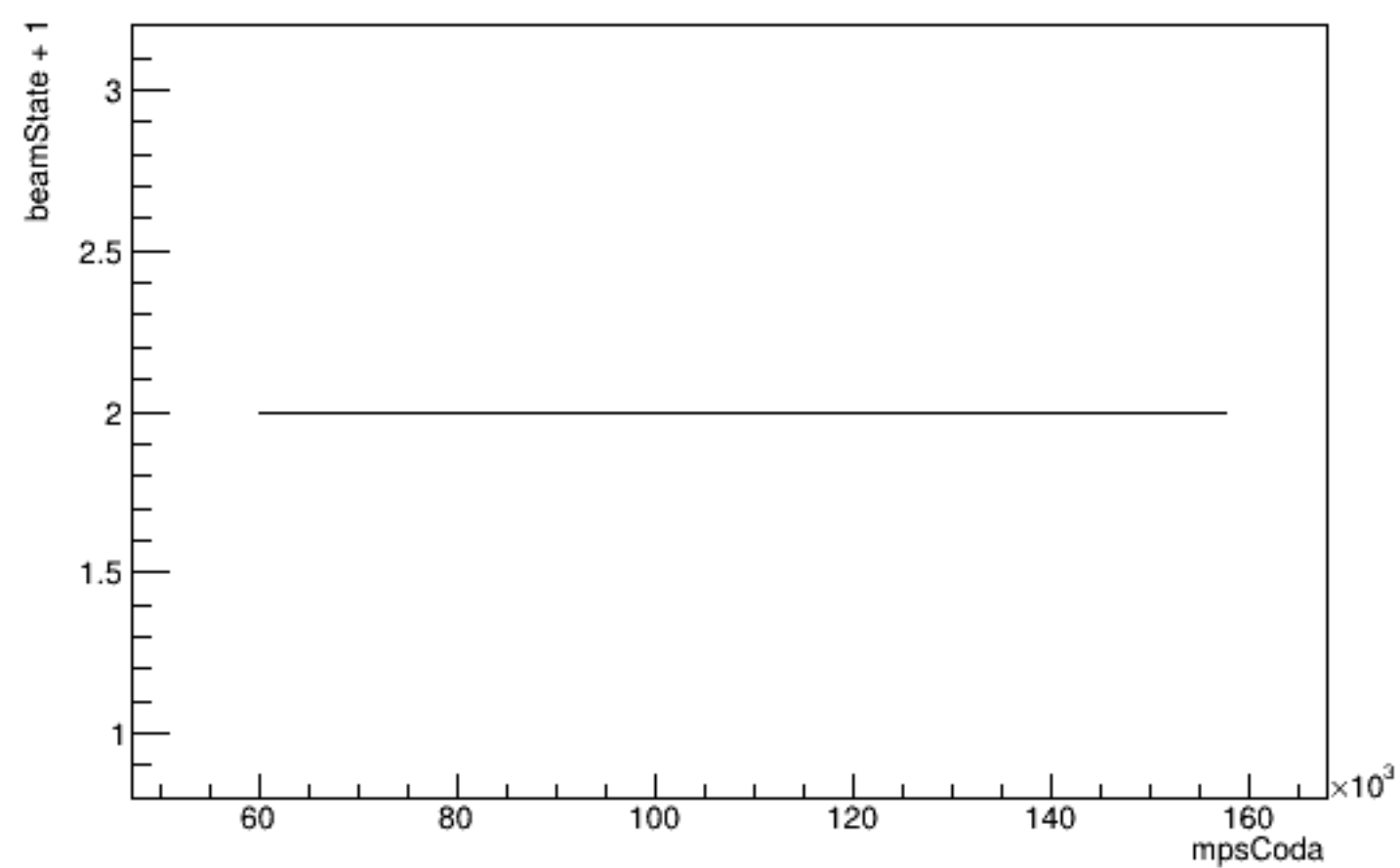
Acc0/NAcc0:mpsCoda {mpsCoda>=60025 && mpsCoda<=157464 && beamState==1}



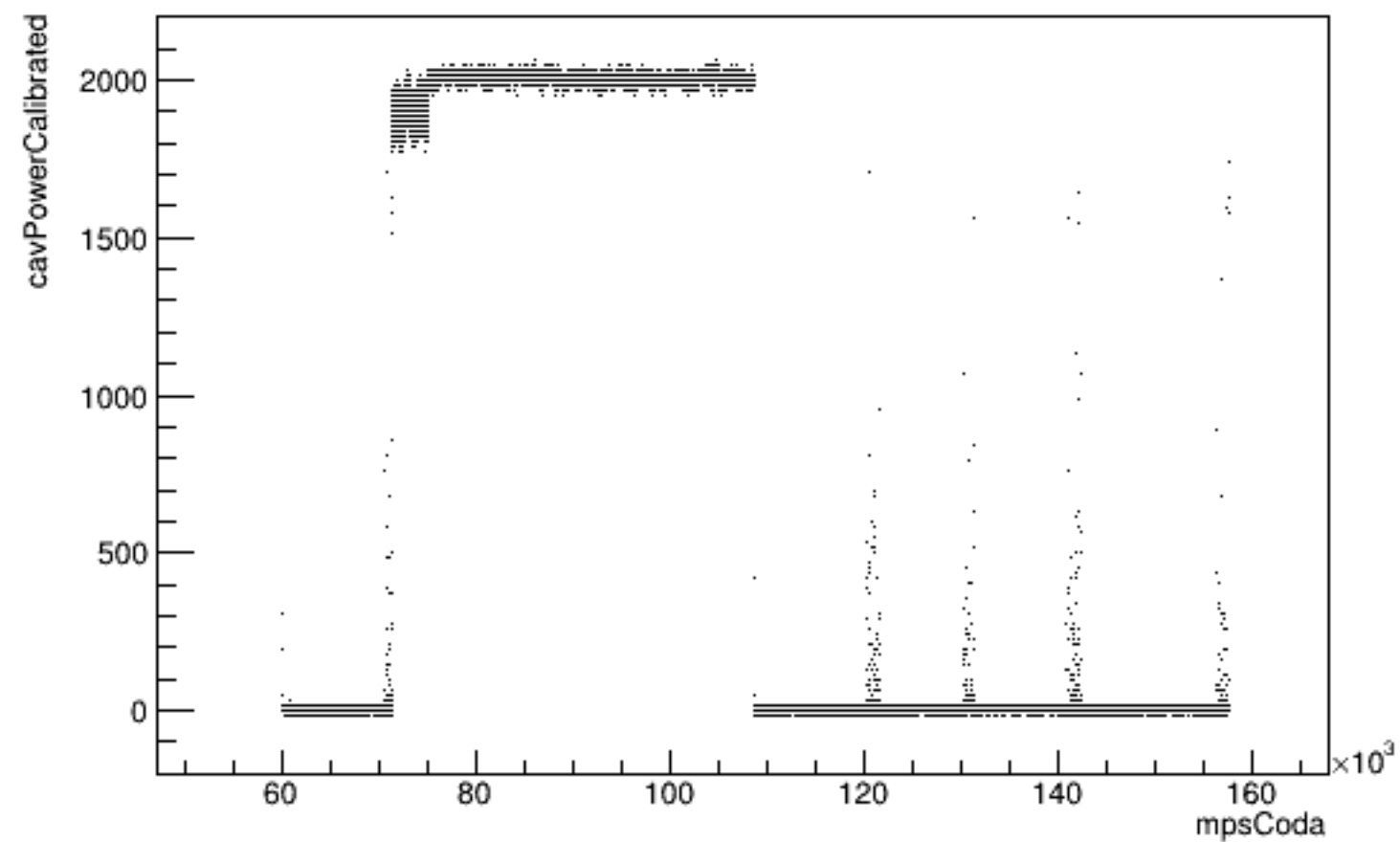
laserState:mpsCoda {mpsCoda&gt;=60025 &amp;&amp; mpsCoda&lt;=157464}



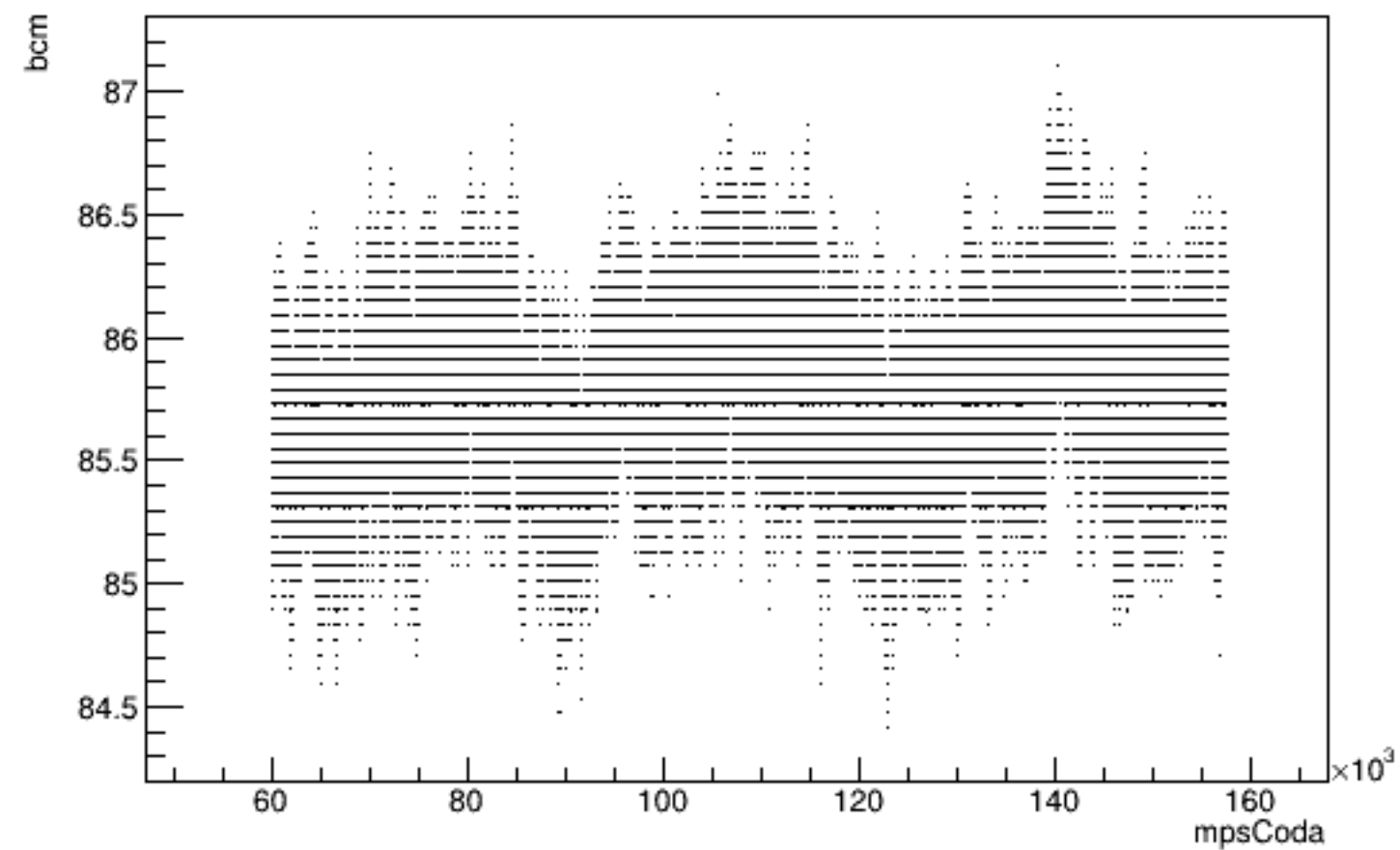
beamState + 1:mpsCoda {mpsCoda&gt;=60025 &amp;&amp; mpsCoda&lt;=157464}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=60025 &amp;&amp; mpsCoda&lt;=157464}



bcm:mpsCoda {mpsCoda&gt;=60025 &amp;&amp; mpsCoda&lt;=157464}



## Cycle 4, Diffs

Entries: 5941

Mean: 0.0024 +/- 0.0026

Std Dev: 0.2004 +/- 0.0018

Entries: 4566

Mean: 0.1338 +/- 0.0042

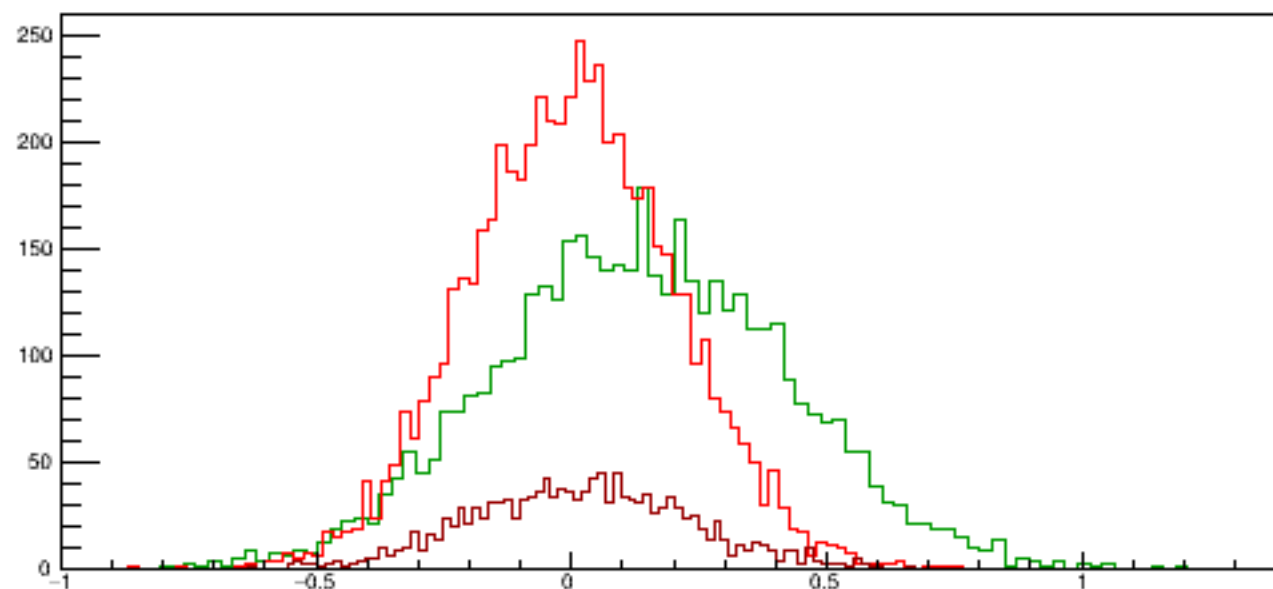
Std Dev: 0.2842 +/- 0.0030

Entries: 1344

Mean: 0.0196 +/- 0.0057

Std Dev: 0.2100 +/- 0.0040

Run 4591 quartetwise, Diffs



## Cycle 4, Sums

Entries: 5941

Mean: 12.6441 +/- 0.0033

Std Dev: 0.2566 +/- 0.0024

Entries: 4566

Mean: 20.6973 +/- 0.0094

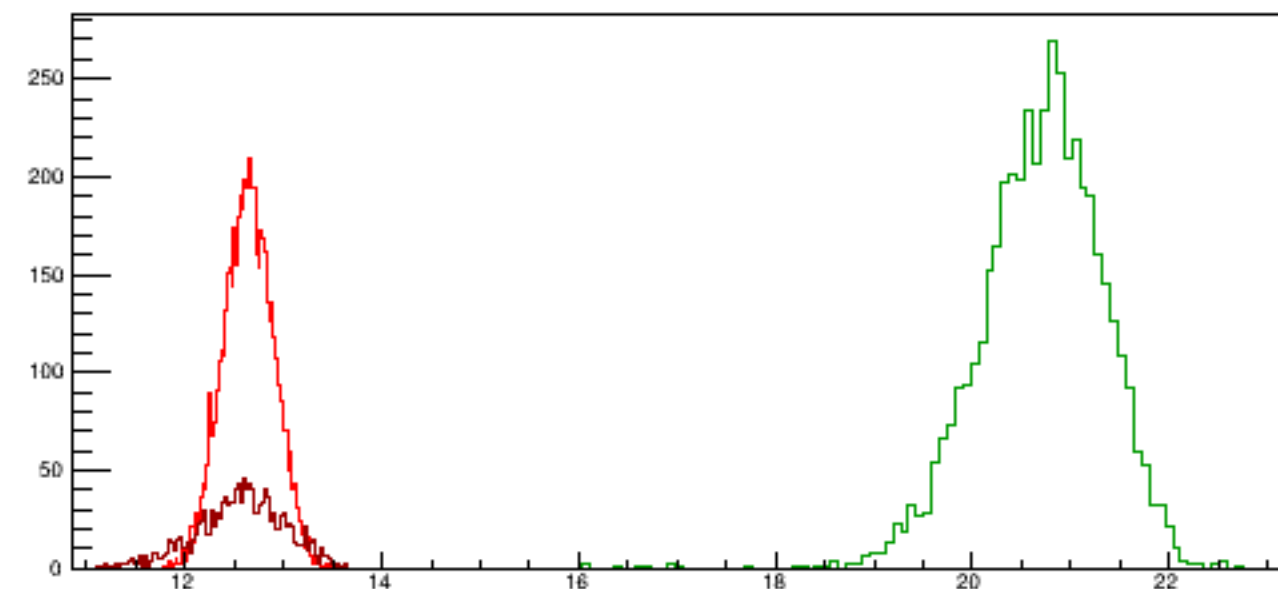
Std Dev: 0.6325 +/- 0.0066

Entries: 1344

Mean: 12.5587 +/- 0.0122

Std Dev: 0.4456 +/- 0.0086

Run 4591 quartetwise, Sums



Acc0/NAcc0:mpsCoda (mpsCoda>=108601 && mpsCoda<=204808 && beamState==1)

## Cycle 4, Asyms

Entries: 5941

Mean: 0.0003 +/- 0.0003

Std Dev: 0.0248 +/- 0.0002

Entries: 4566

Mean: 0.0166 +/- 0.0005

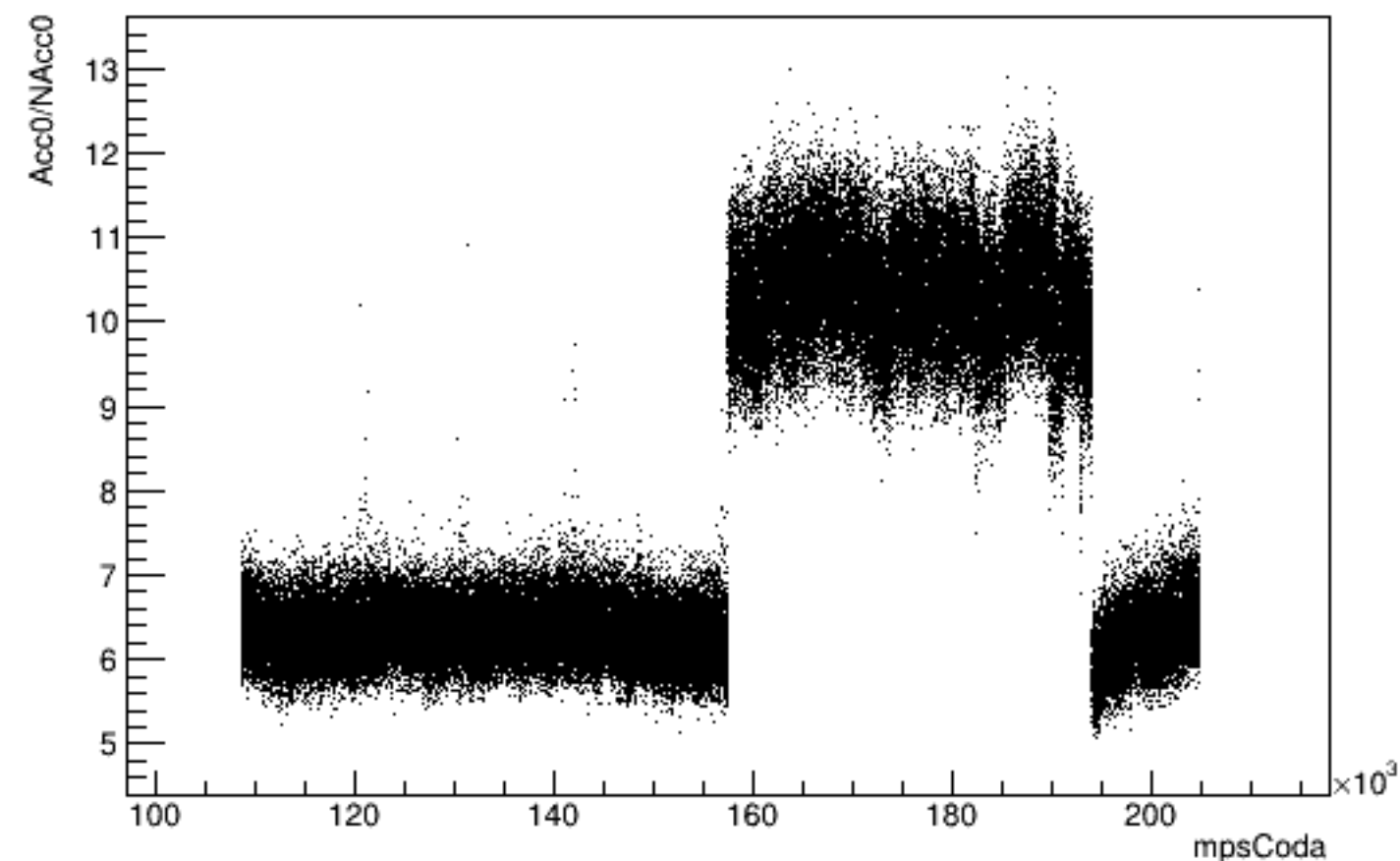
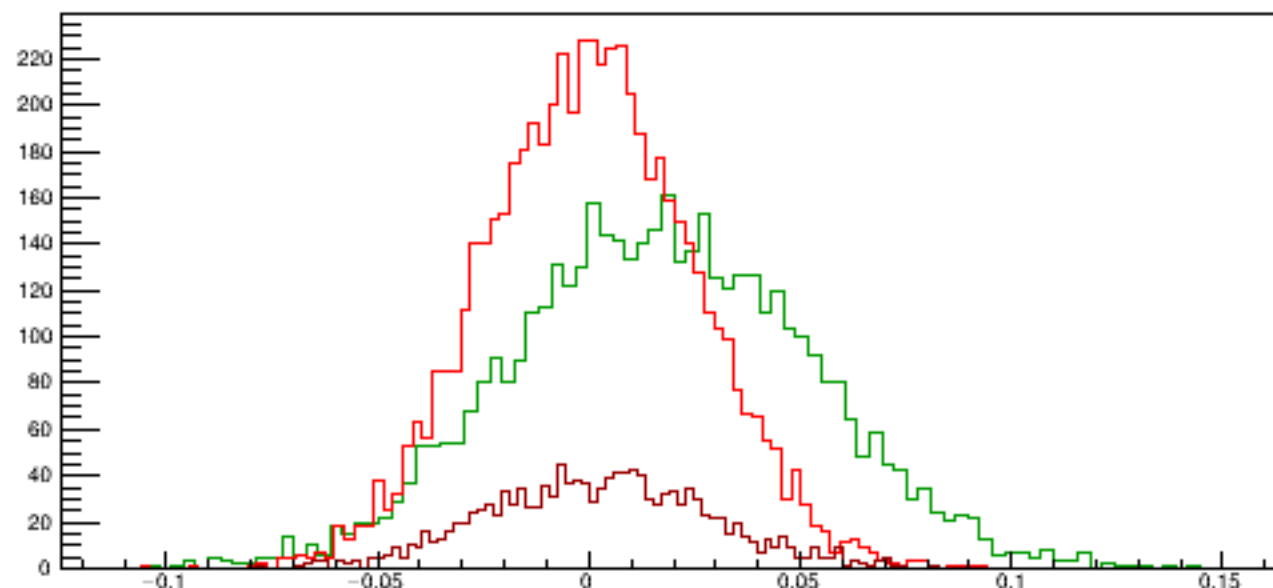
Std Dev: 0.0353 +/- 0.0004

Entries: 1344

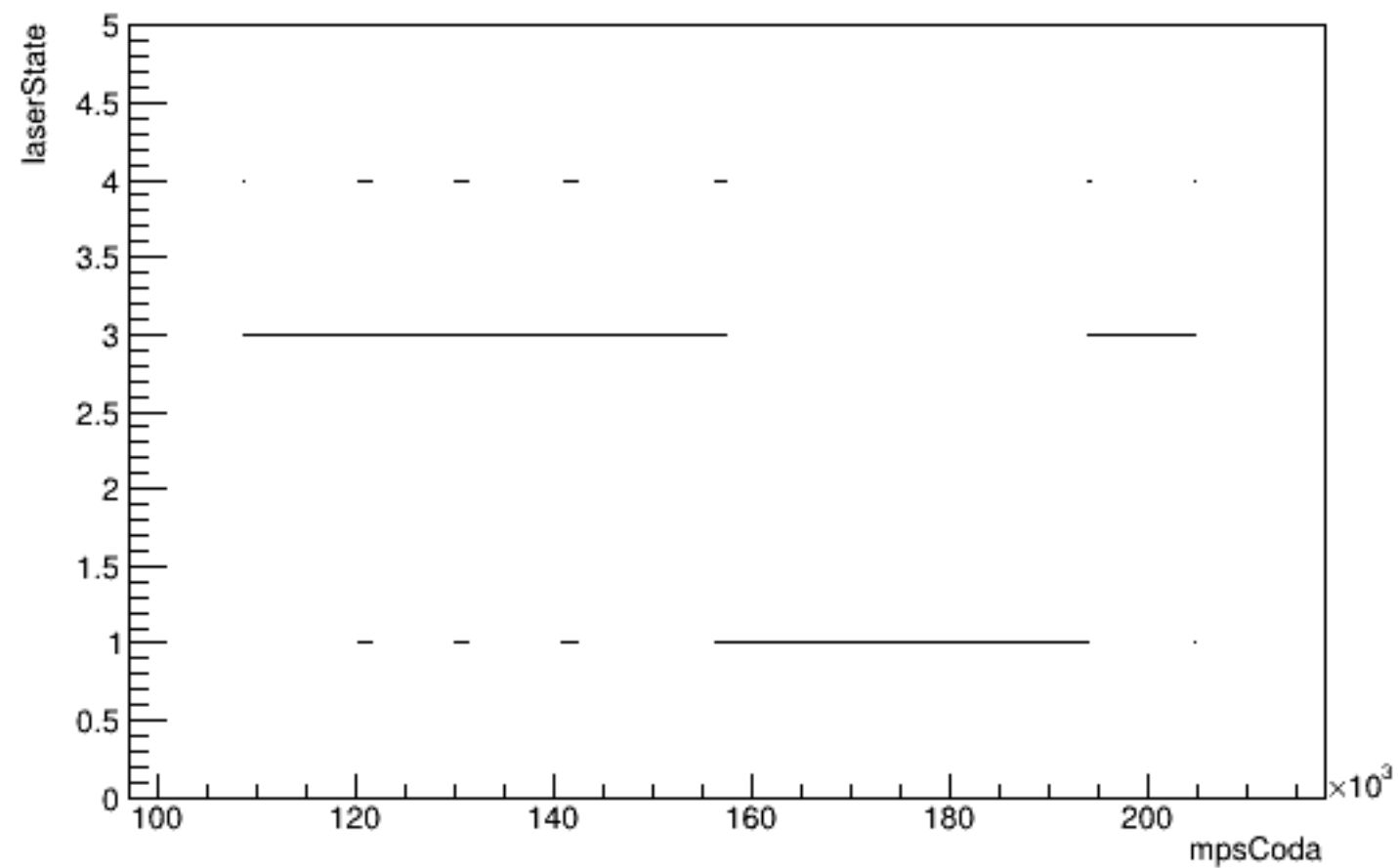
Mean: 0.0024 +/- 0.0007

Std Dev: 0.0259 +/- 0.0005

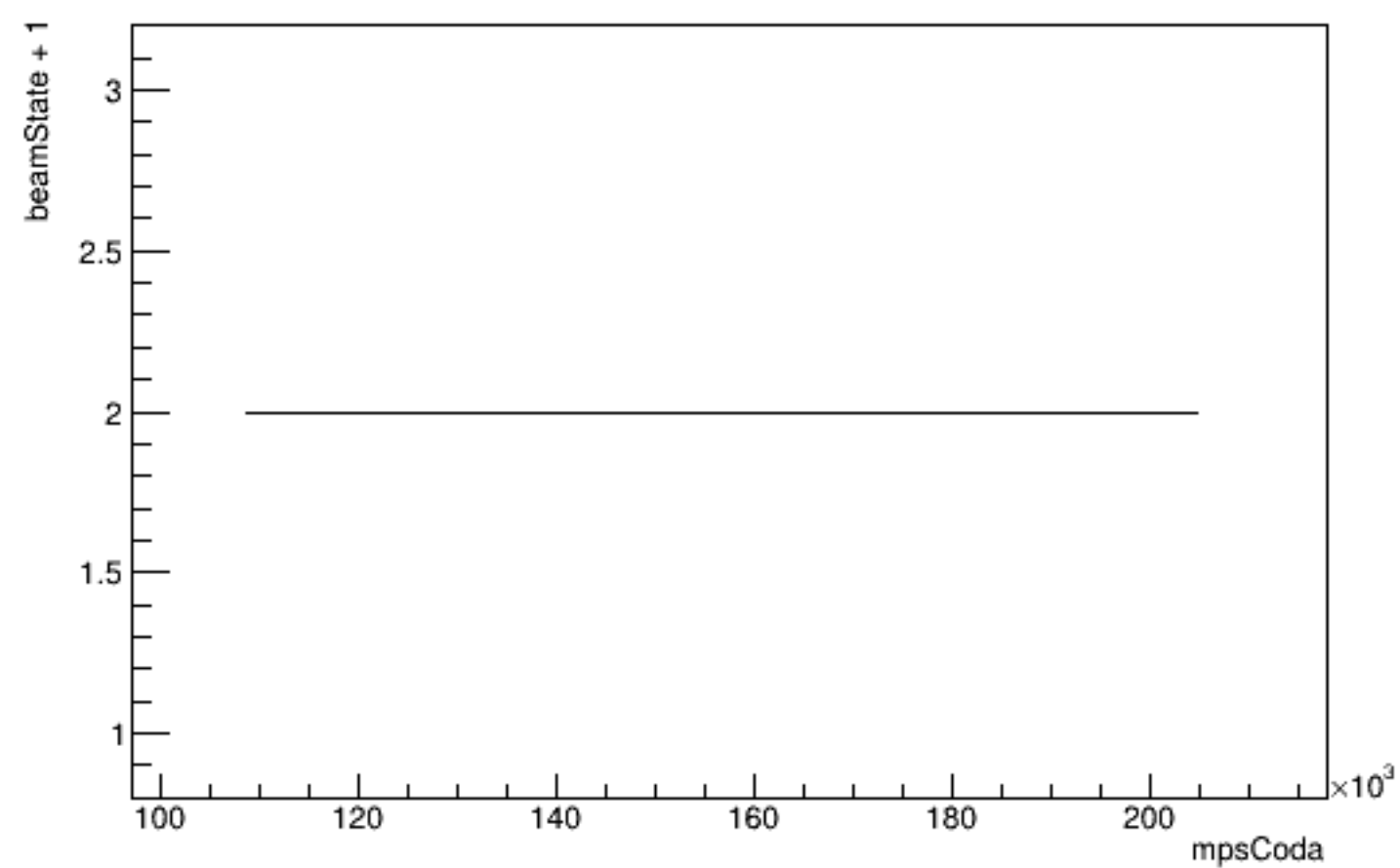
Run 4591 quartetwise, Asyms



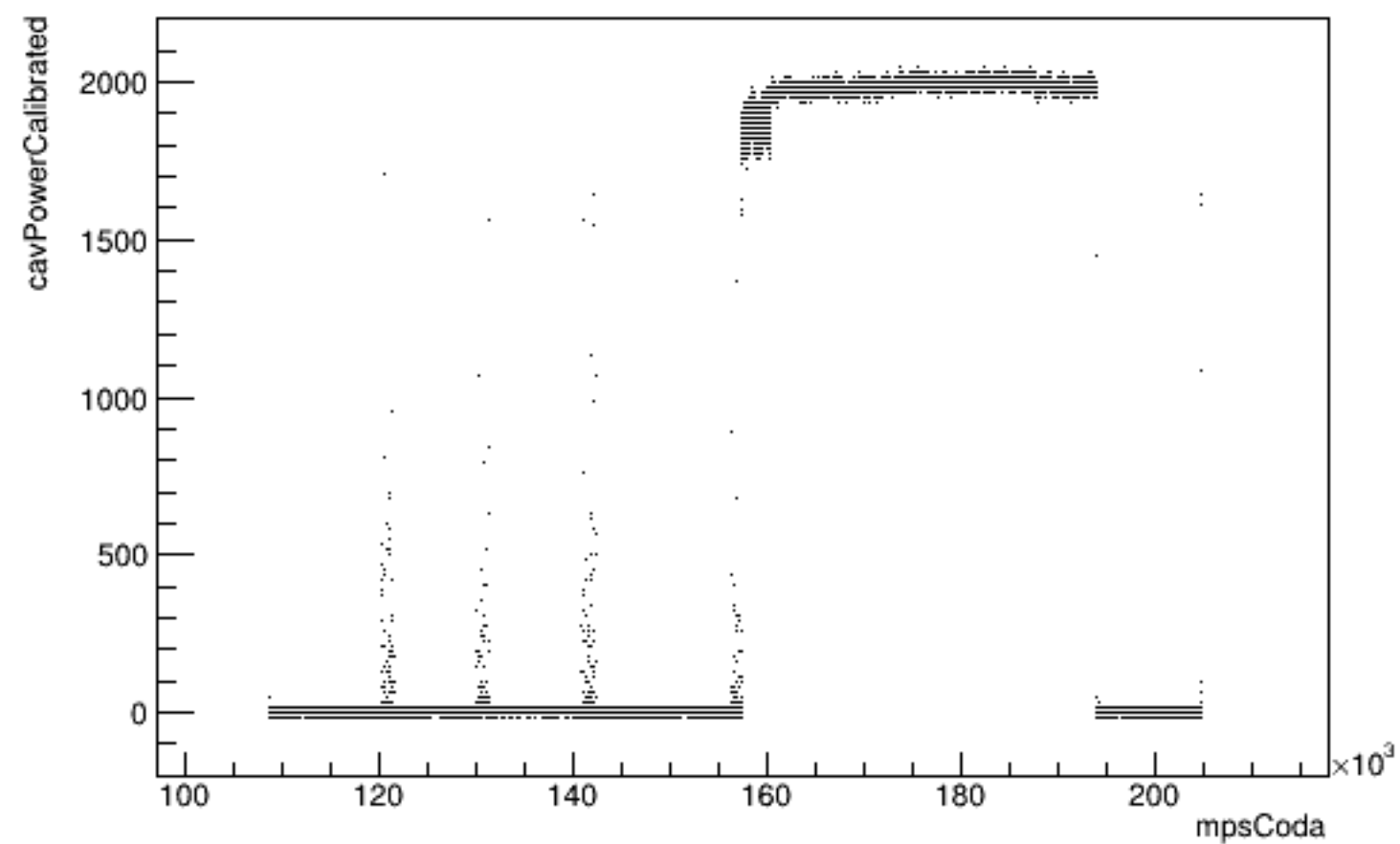
laserState:mpsCoda {mpsCoda&gt;=108601 &amp;&amp; mpsCoda&lt;=204808}



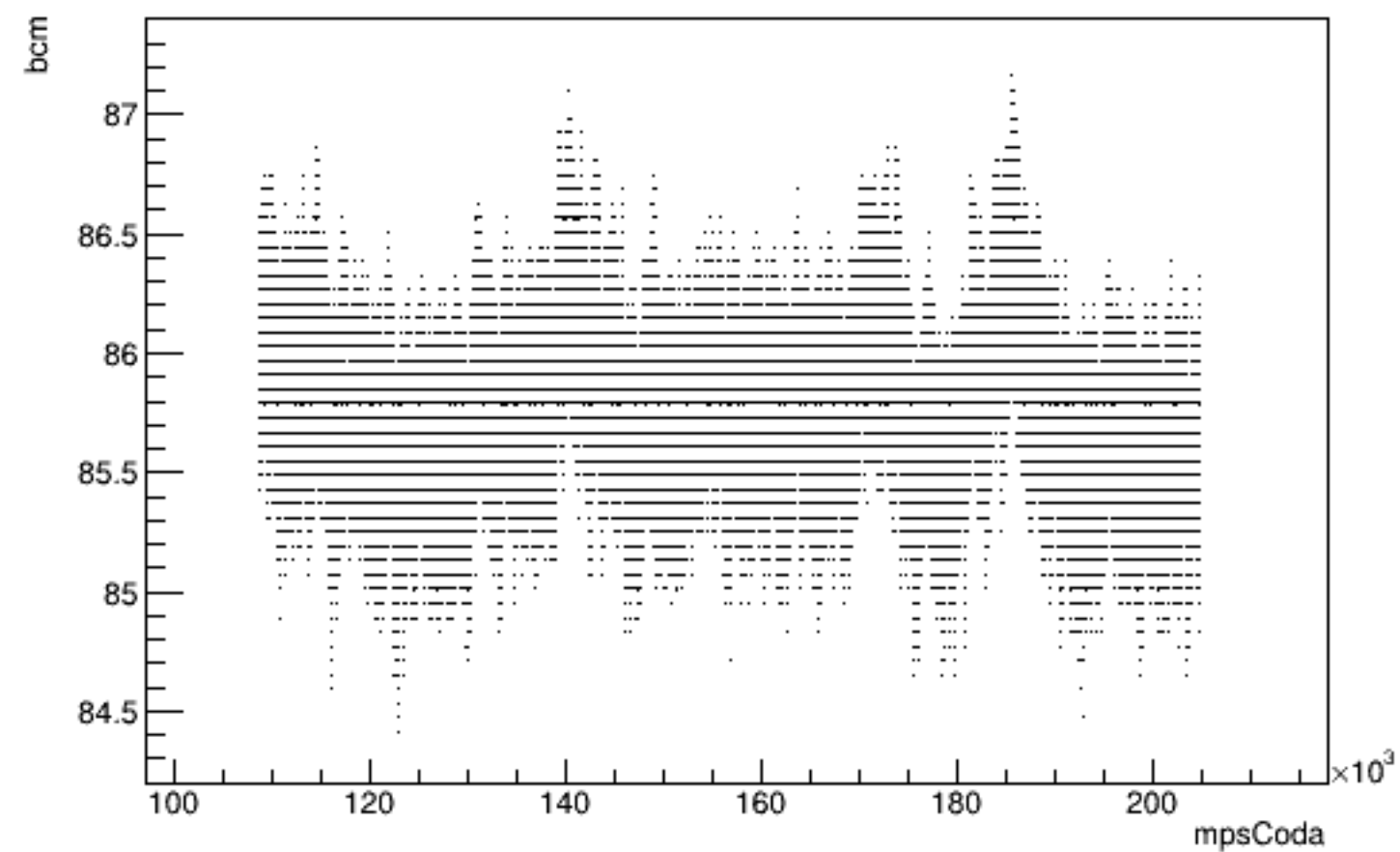
beamState + 1:mpsCoda {mpsCoda&gt;=108601 &amp;&amp; mpsCoda&lt;=204808}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=108601 &amp;&amp; mpsCoda&lt;=204808}



bcm:mpsCoda {mpsCoda&gt;=108601 &amp;&amp; mpsCoda&lt;=204808}



## Cycle 5, Diffs

Entries: 1344

Mean: 0.0196 +/- 0.0057

Std Dev: 0.2100 +/- 0.0040

Entries: 3553

Mean: 0.2143 +/- 0.0055

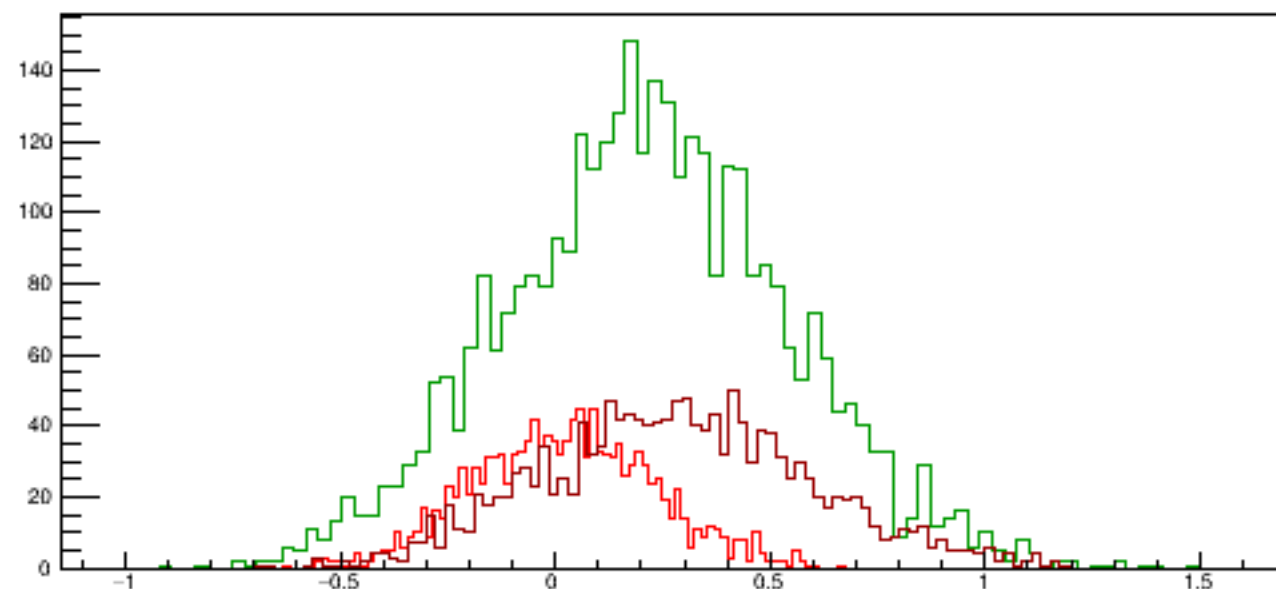
Std Dev: 0.3299 +/- 0.0039

Entries: 1551

Mean: 0.2797 +/- 0.0080

Std Dev: 0.3143 +/- 0.0056

Run 4591 quartetwise, Diffs



## Cycle 5, Sums

Entries: 1344

Mean: 12.5587 +/- 0.0122

Std Dev: 0.4456 +/- 0.0086

Entries: 3553

Mean: 21.8081 +/- 0.0115

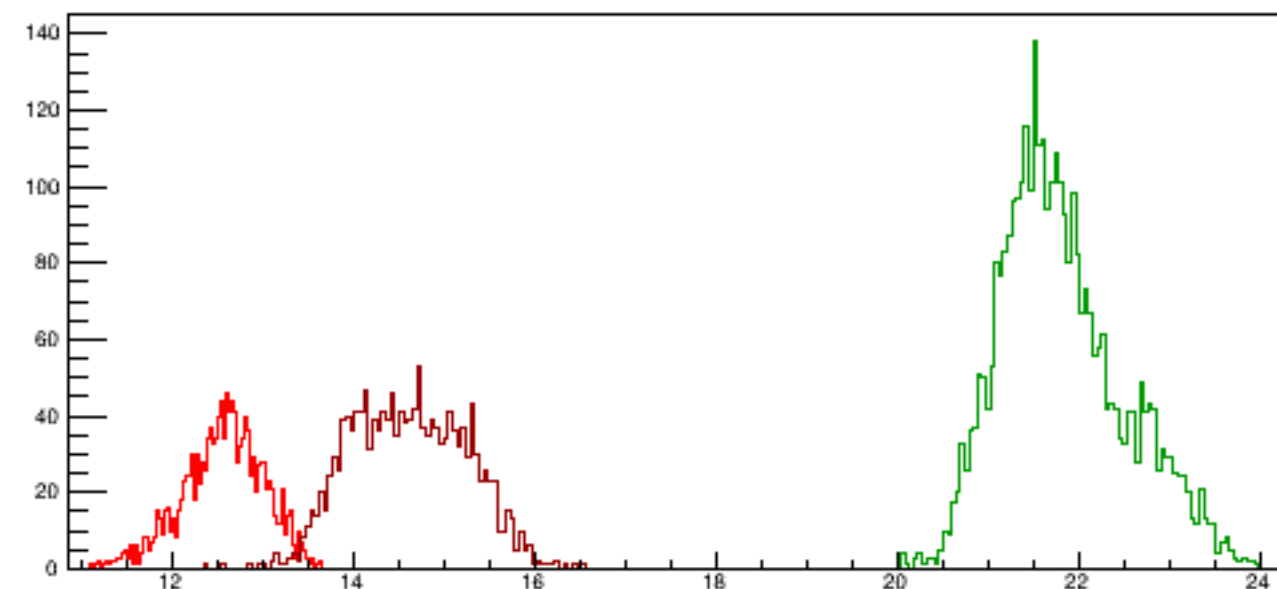
Std Dev: 0.6843 +/- 0.0081

Entries: 1551

Mean: 14.6062 +/- 0.0159

Std Dev: 0.6255 +/- 0.0112

Run 4591 quartetwise, Sums



## Cycle 5, Asyms

Entries: 1344

Mean: 0.0024 +/- 0.0007

Std Dev: 0.0255 +/- 0.0005

Entries: 3553

Mean: 0.0257 +/- 0.0007

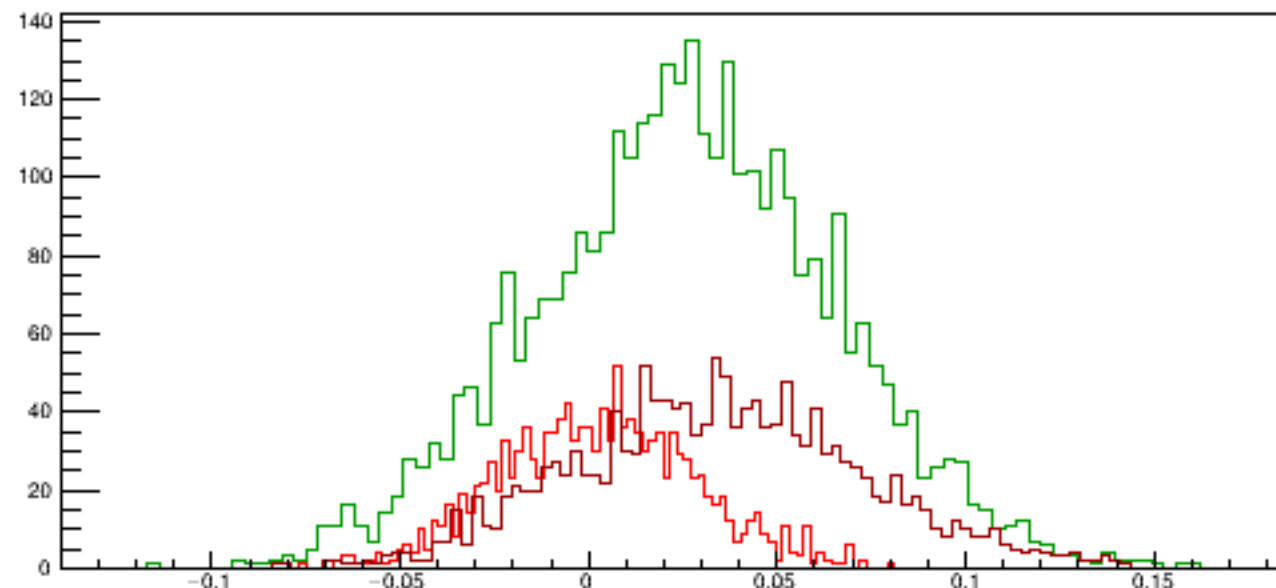
Std Dev: 0.0396 +/- 0.0005

Entries: 1551

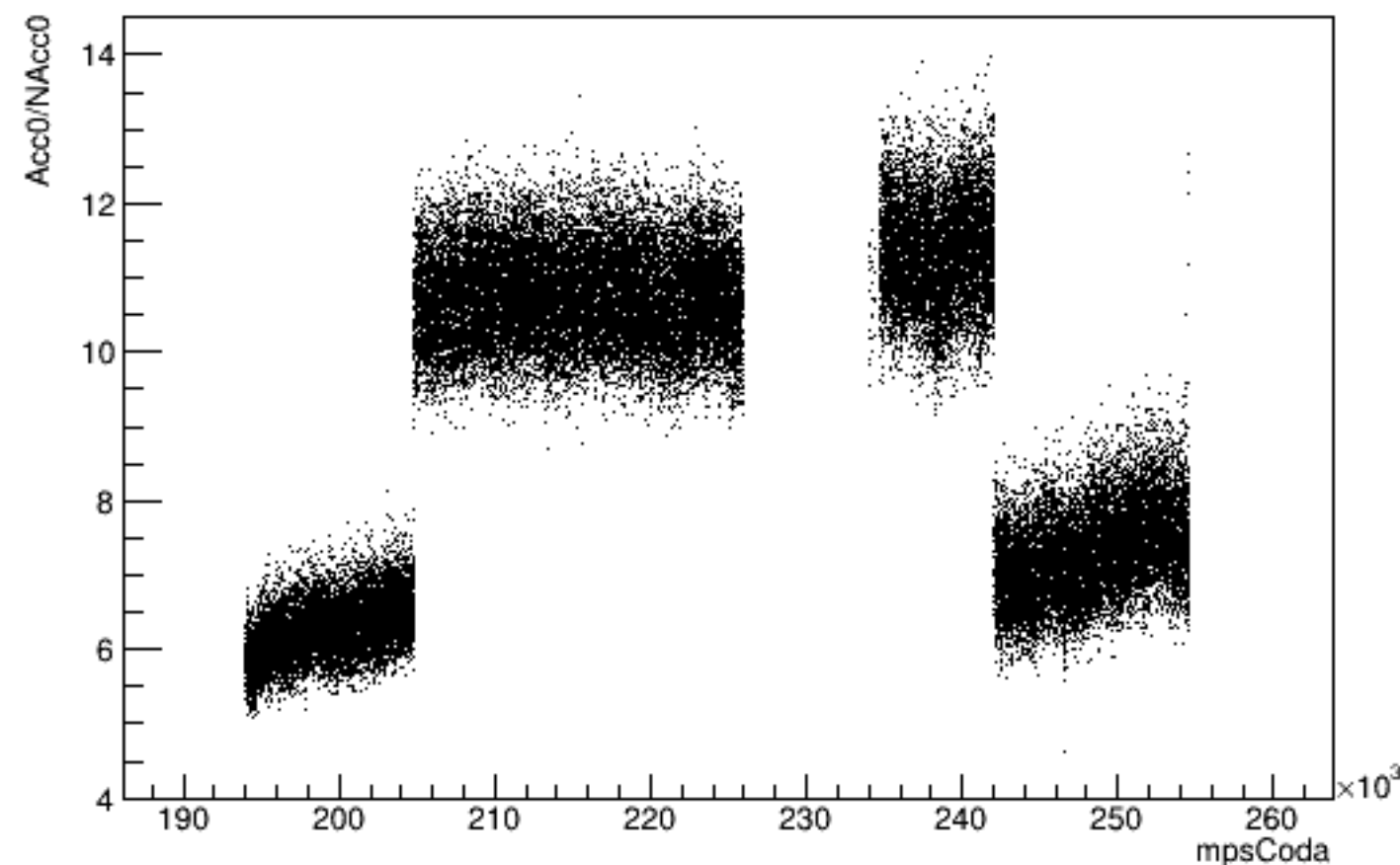
Mean: 0.0340 +/- 0.0010

Std Dev: 0.0382 +/- 0.0007

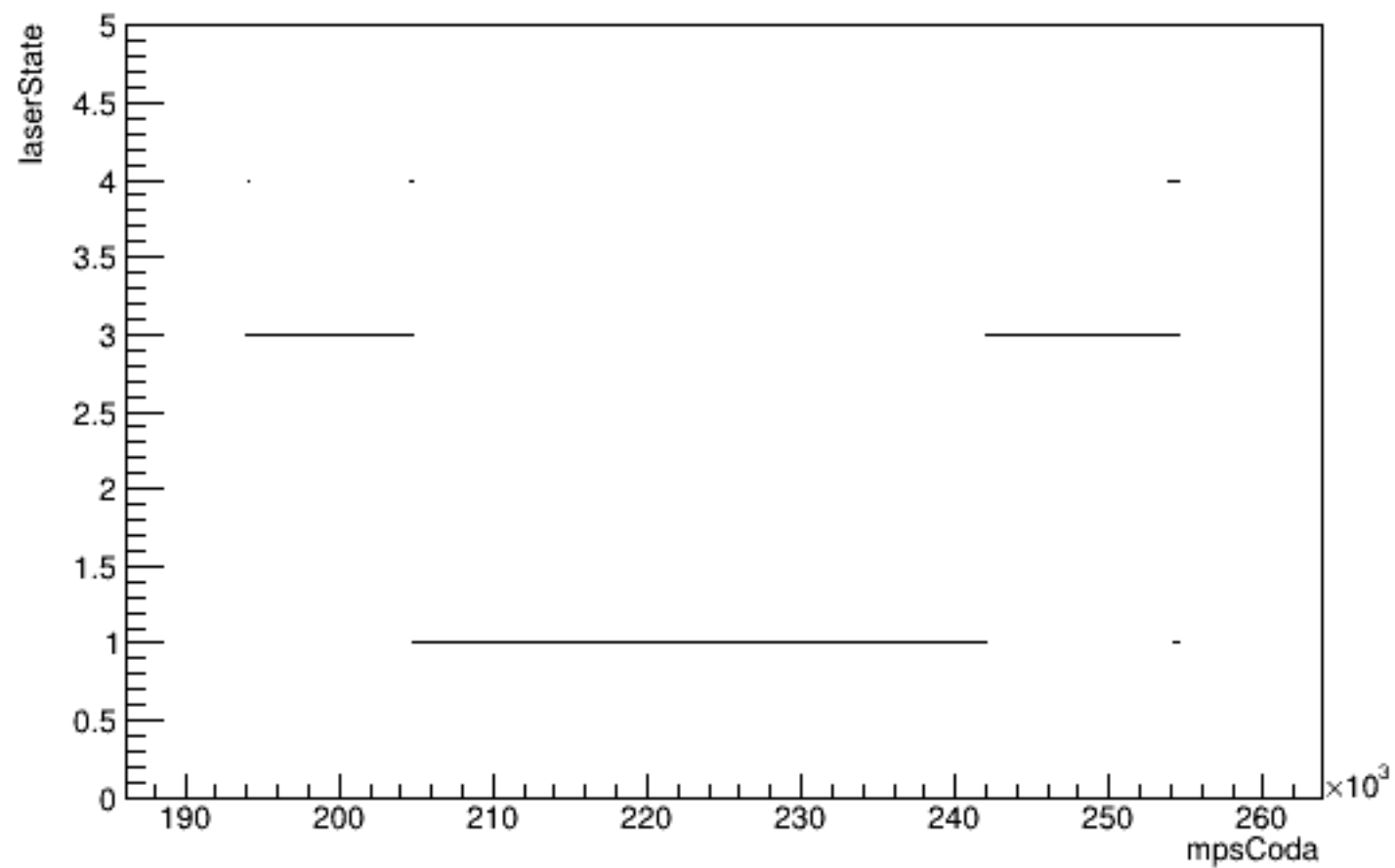
Run 4591 quartetwise, Asyms



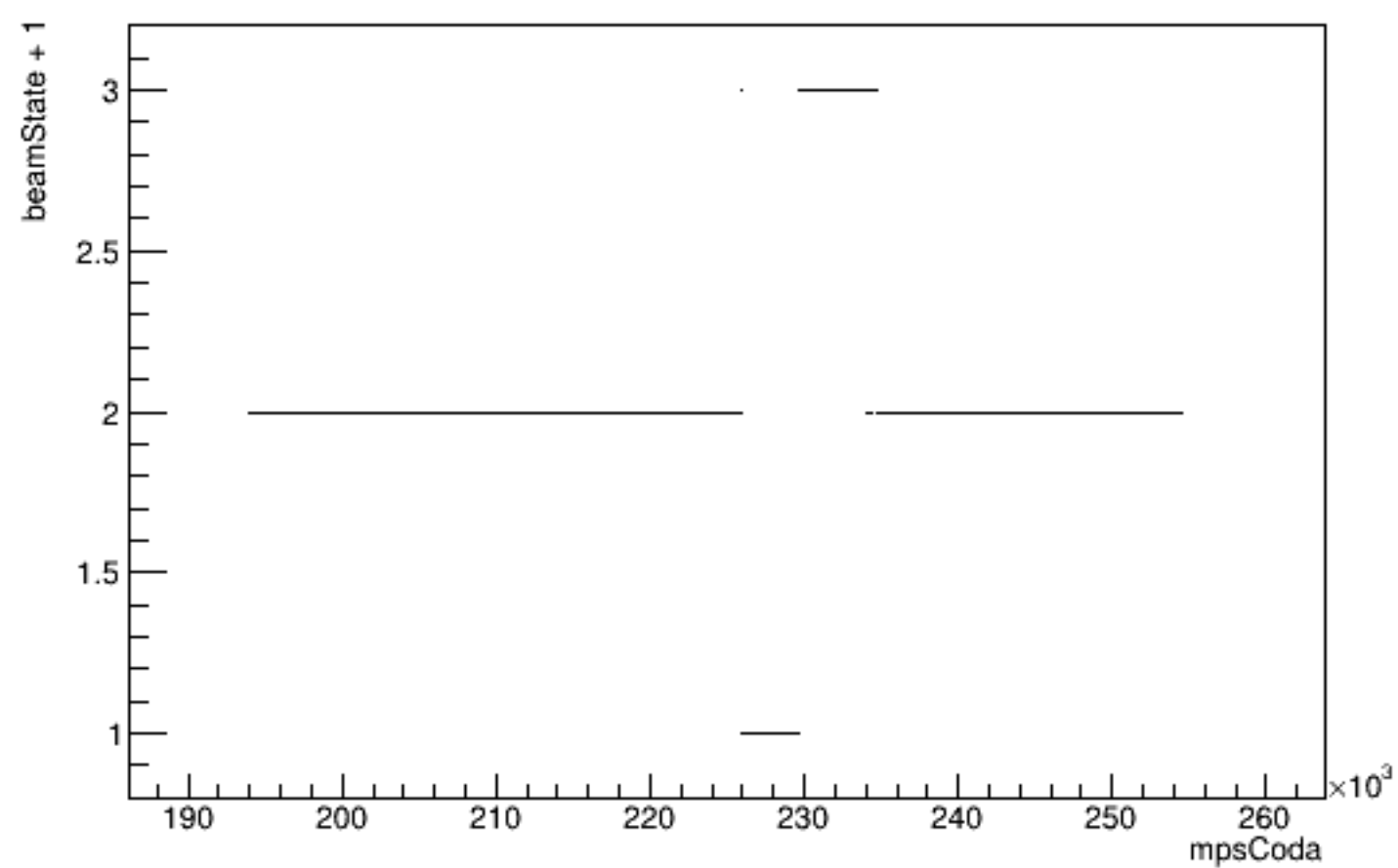
Acc0/NAcc0:mpsCoda (mpsCoda>=194009 && mpsCoda<=254600 && beamState==1)



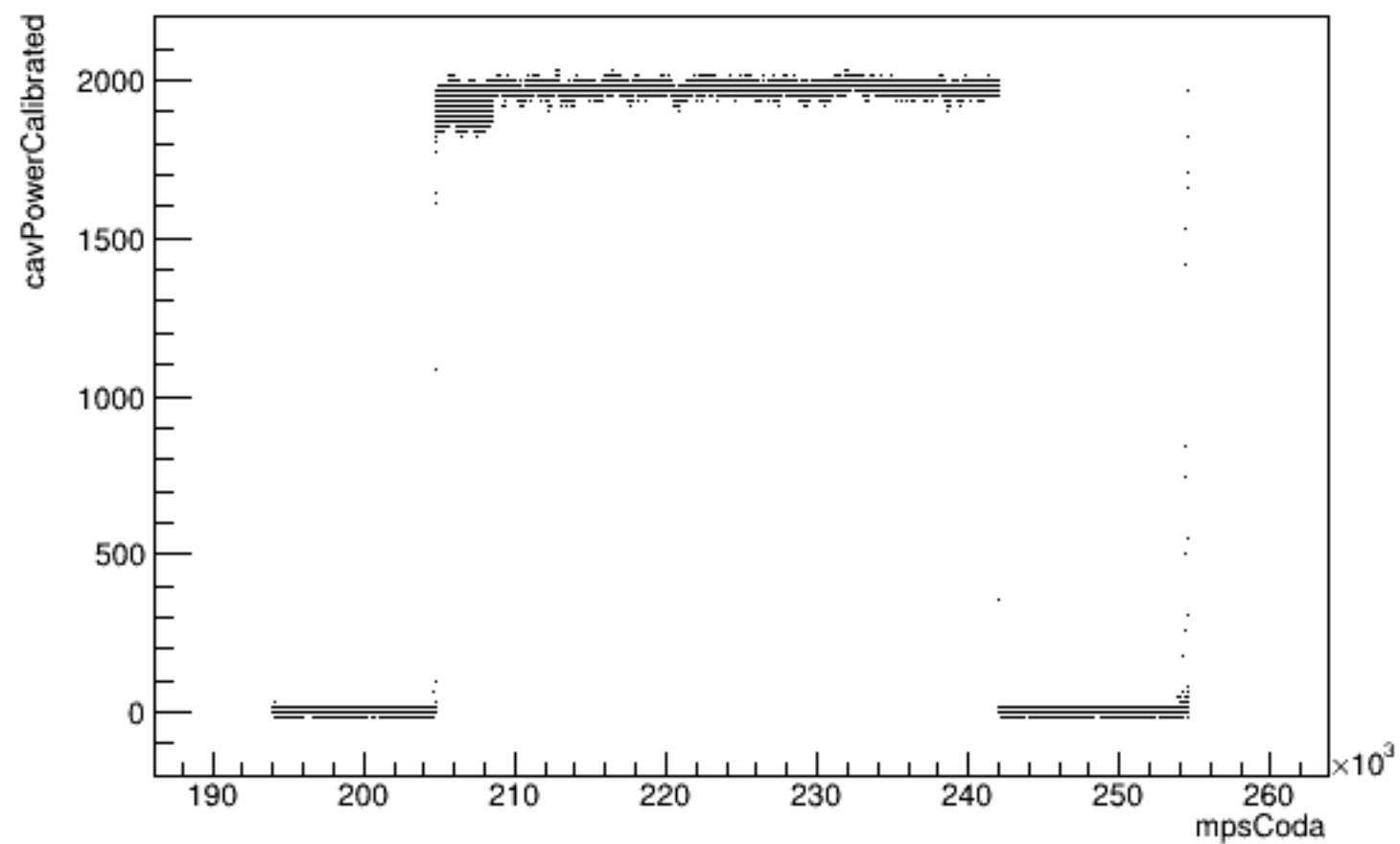
laserState:mpsCoda {mpsCoda&gt;=194009 &amp;&amp; mpsCoda&lt;=254600}



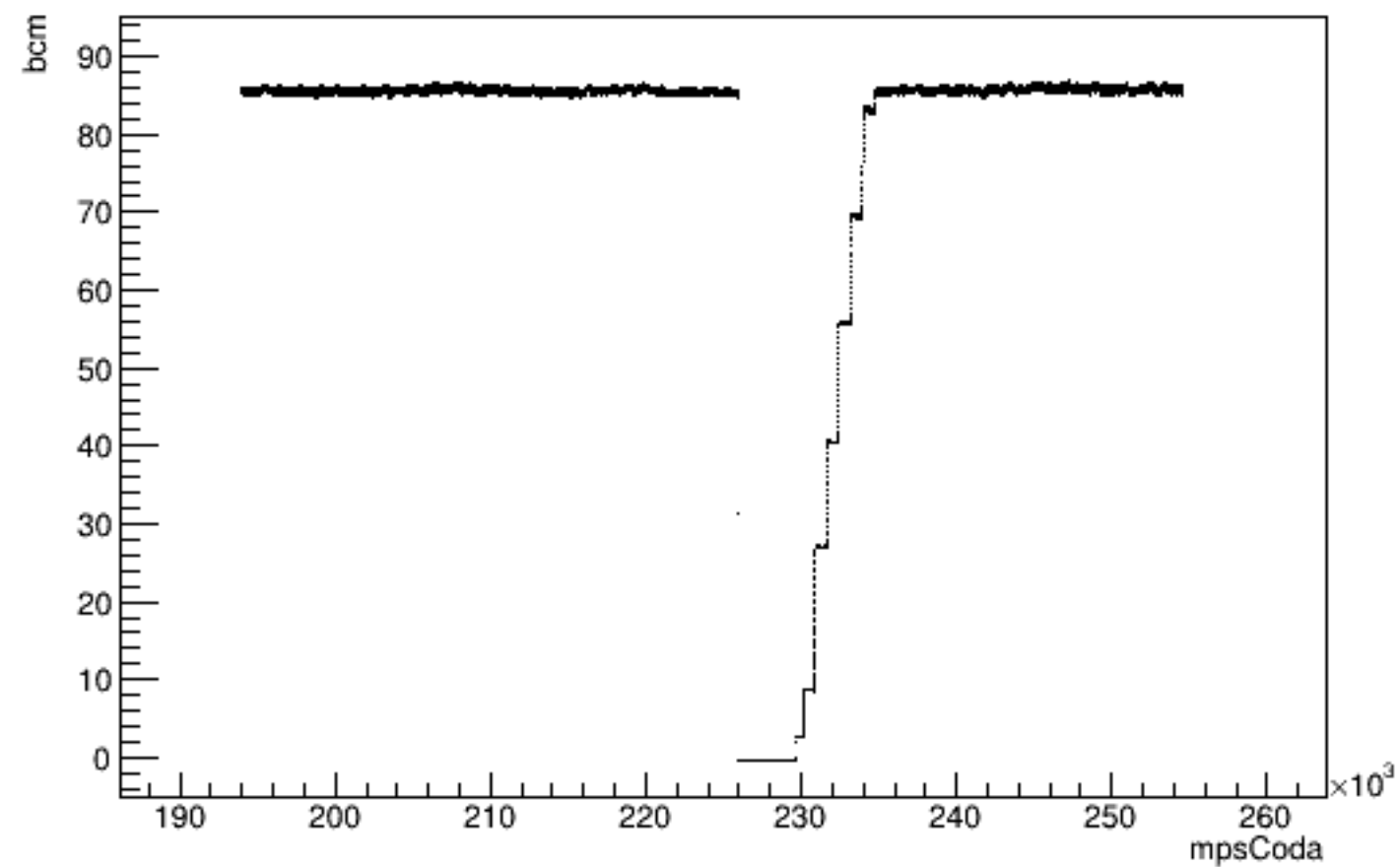
beamState + 1:mpsCoda {mpsCoda&gt;=194009 &amp;&amp; mpsCoda&lt;=254600}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=194009 &amp;&amp; mpsCoda&lt;=254600}



bcm:mpsCoda {mpsCoda&gt;=194009 &amp;&amp; mpsCoda&lt;=254600}



## Cycle 6, Diffs

Entries: 1551

Mean: 0.2797 +/- 0.0080

Std Dev: 0.3143 +/- 0.0056

Entries: 4685

Mean: 0.3325 +/- 0.0054

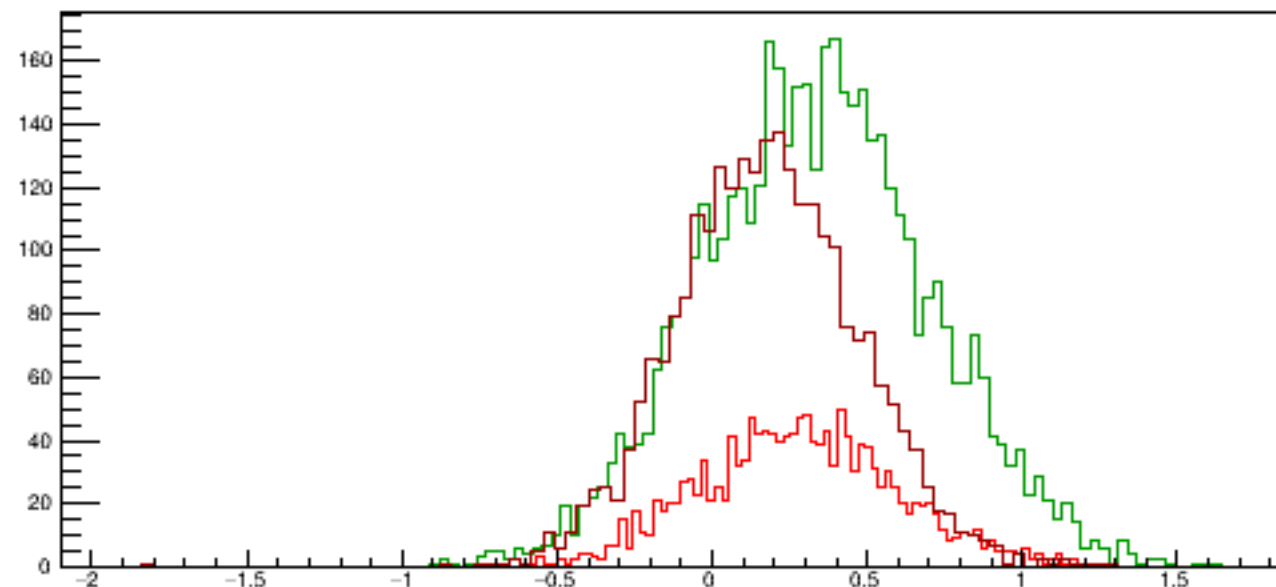
Std Dev: 0.3682 +/- 0.0038

Entries: 2587

Mean: 0.1769 +/- 0.0058

Std Dev: 0.2930 +/- 0.0041

Run 4591 quartetwise, Diffs



## Cycle 6, Sums

Entries: 1551

Mean: 14.6062 +/- 0.0159

Std Dev: 0.6255 +/- 0.0112

Entries: 4685

Mean: 22.4208 +/- 0.0116

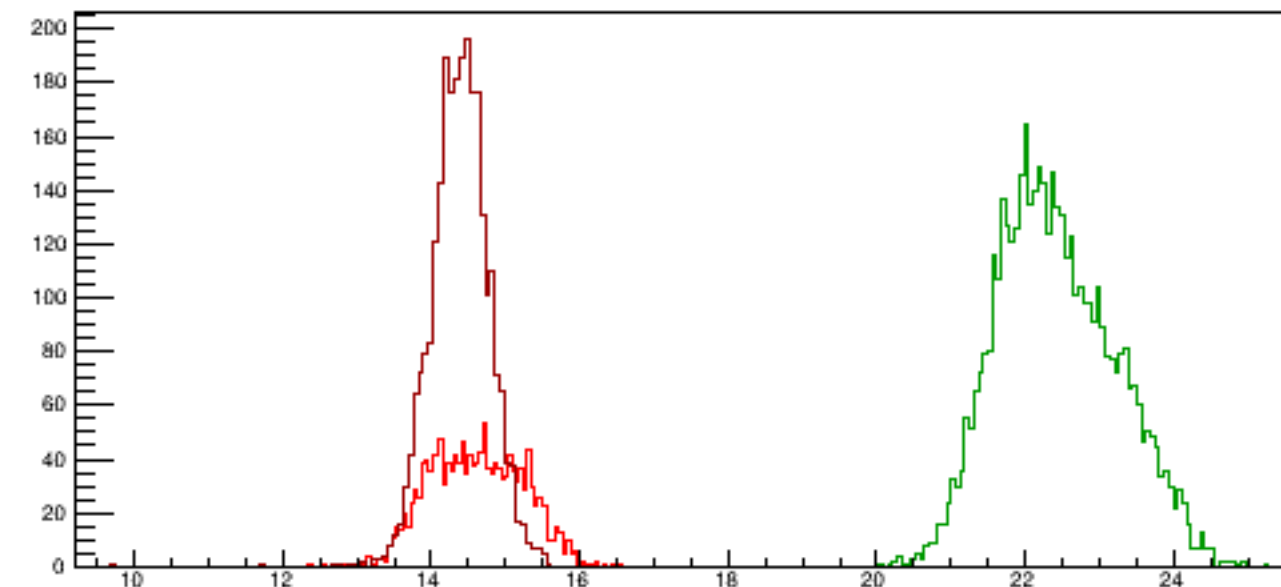
Std Dev: 0.7957 +/- 0.0082

Entries: 2587

Mean: 14.3894 +/- 0.0078

Std Dev: 0.3964 +/- 0.0055

Run 4591 quartetwise, Sums



## Cycle 6, Asyms

Entries: 1551

Mean: 0.0353 +/- 0.0010

Std Dev: 0.0397 +/- 0.0007

Entries: 4685

Mean: 0.0417 +/- 0.0007

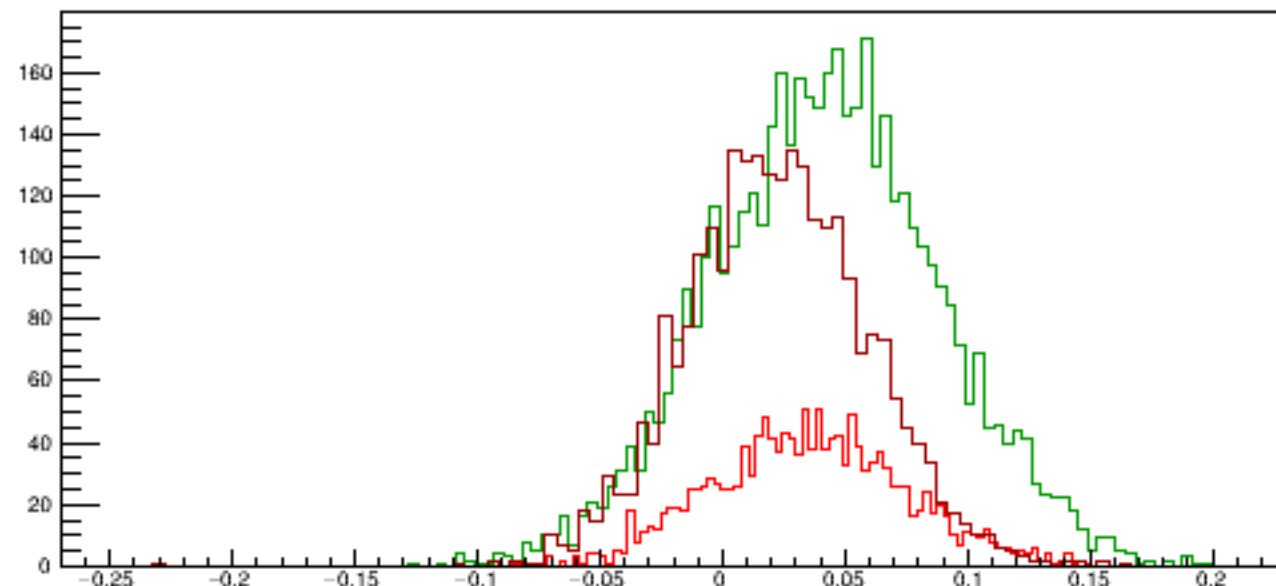
Std Dev: 0.0464 +/- 0.0005

Entries: 2587

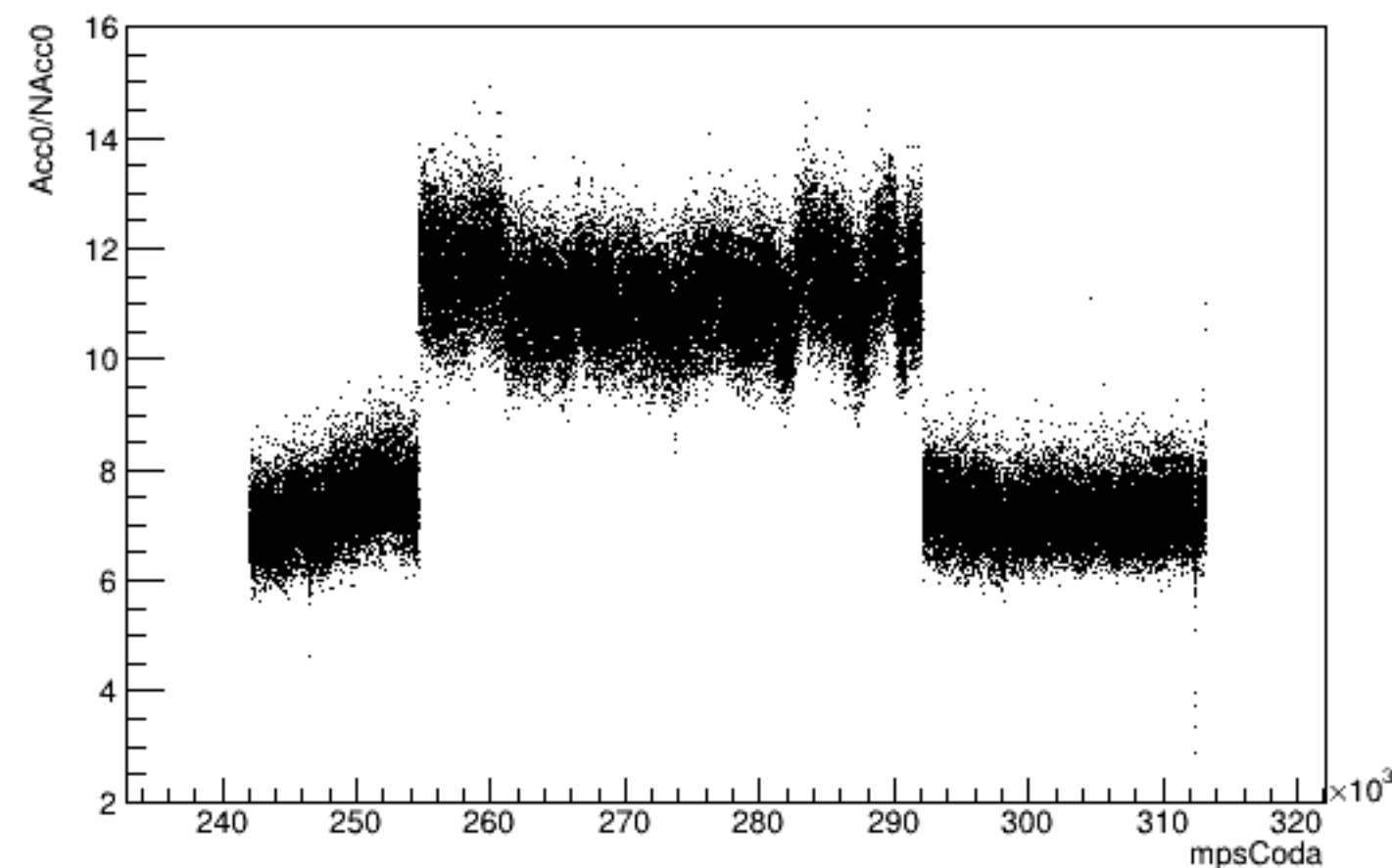
Mean: 0.0223 +/- 0.0007

Std Dev: 0.0370 +/- 0.0005

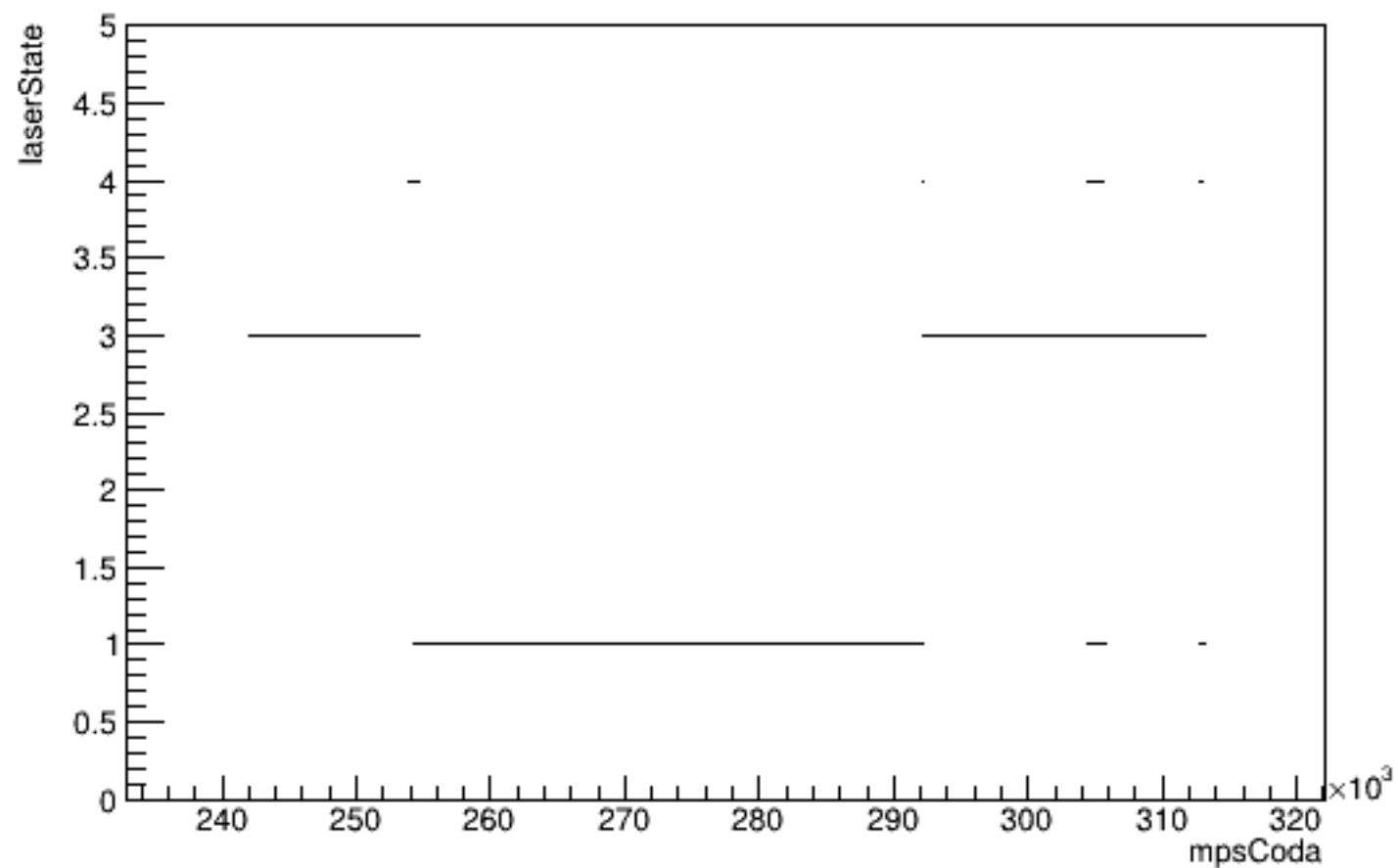
Run 4591 quartetwise, Asyms



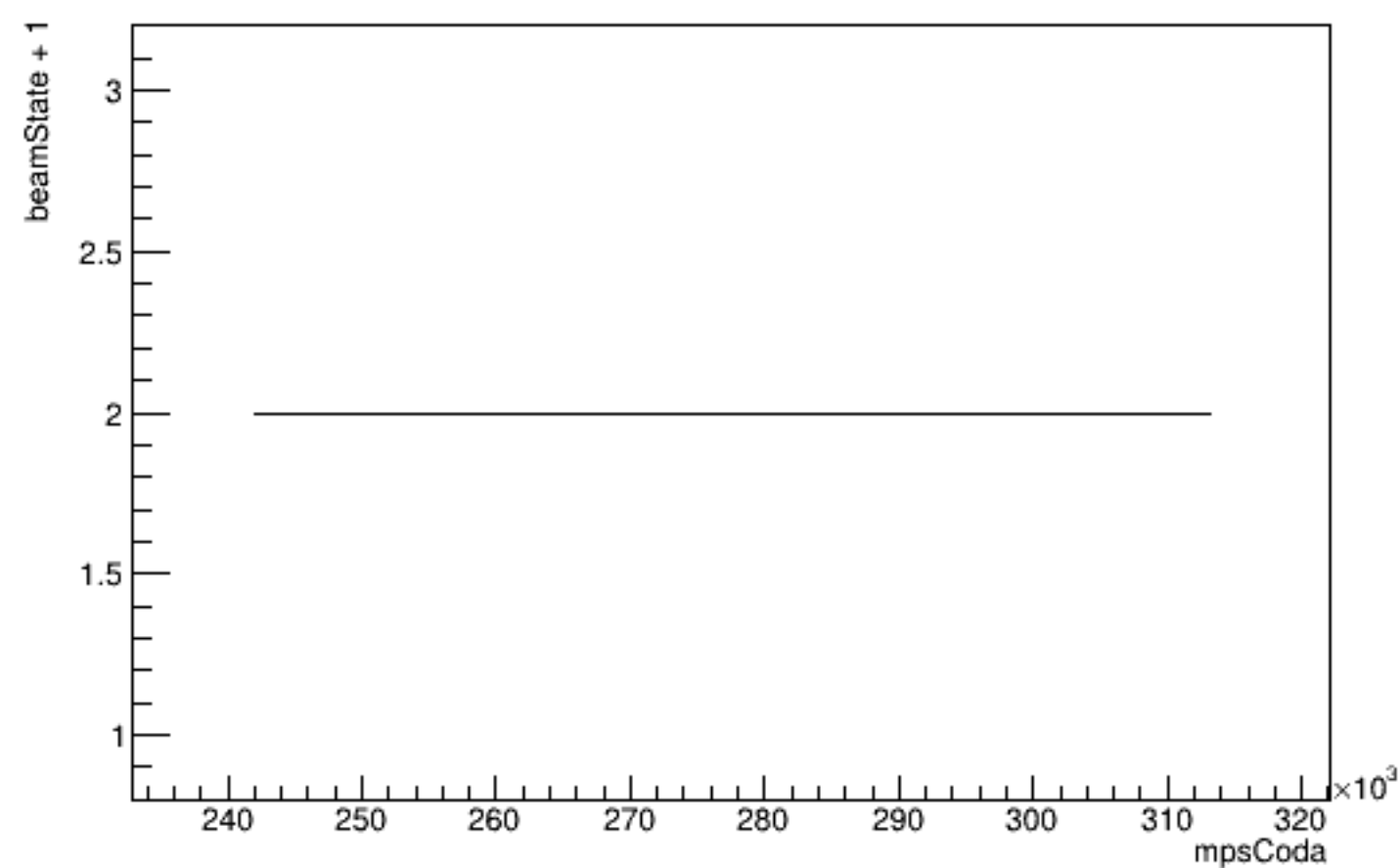
Acc0/NAcc0:mpsCoda (mpsCoda>=242073 && mpsCoda<=313152 && beamState==1)



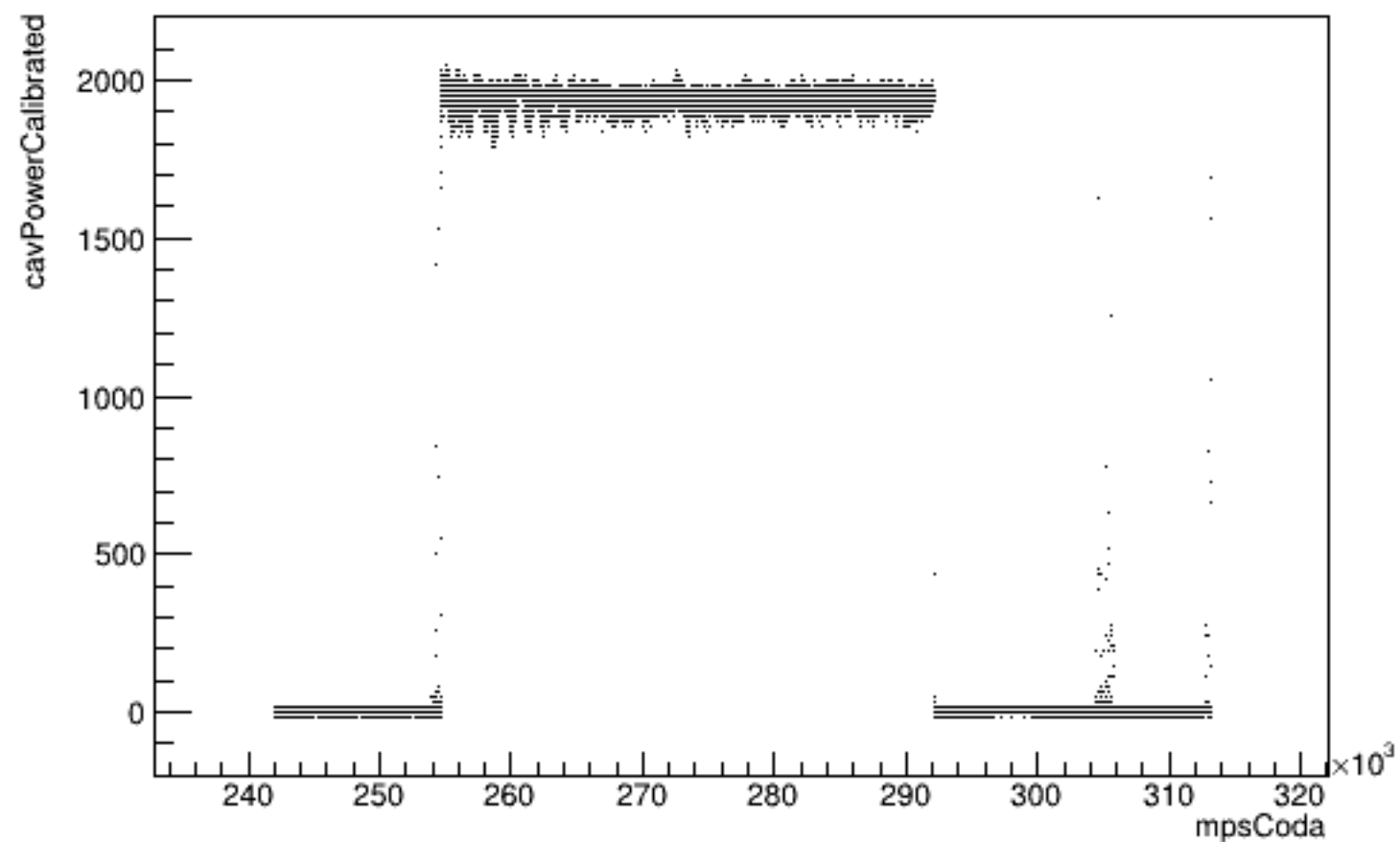
laserState:mpsCoda {mpsCoda&gt;=242073 &amp;&amp; mpsCoda&lt;=313152}



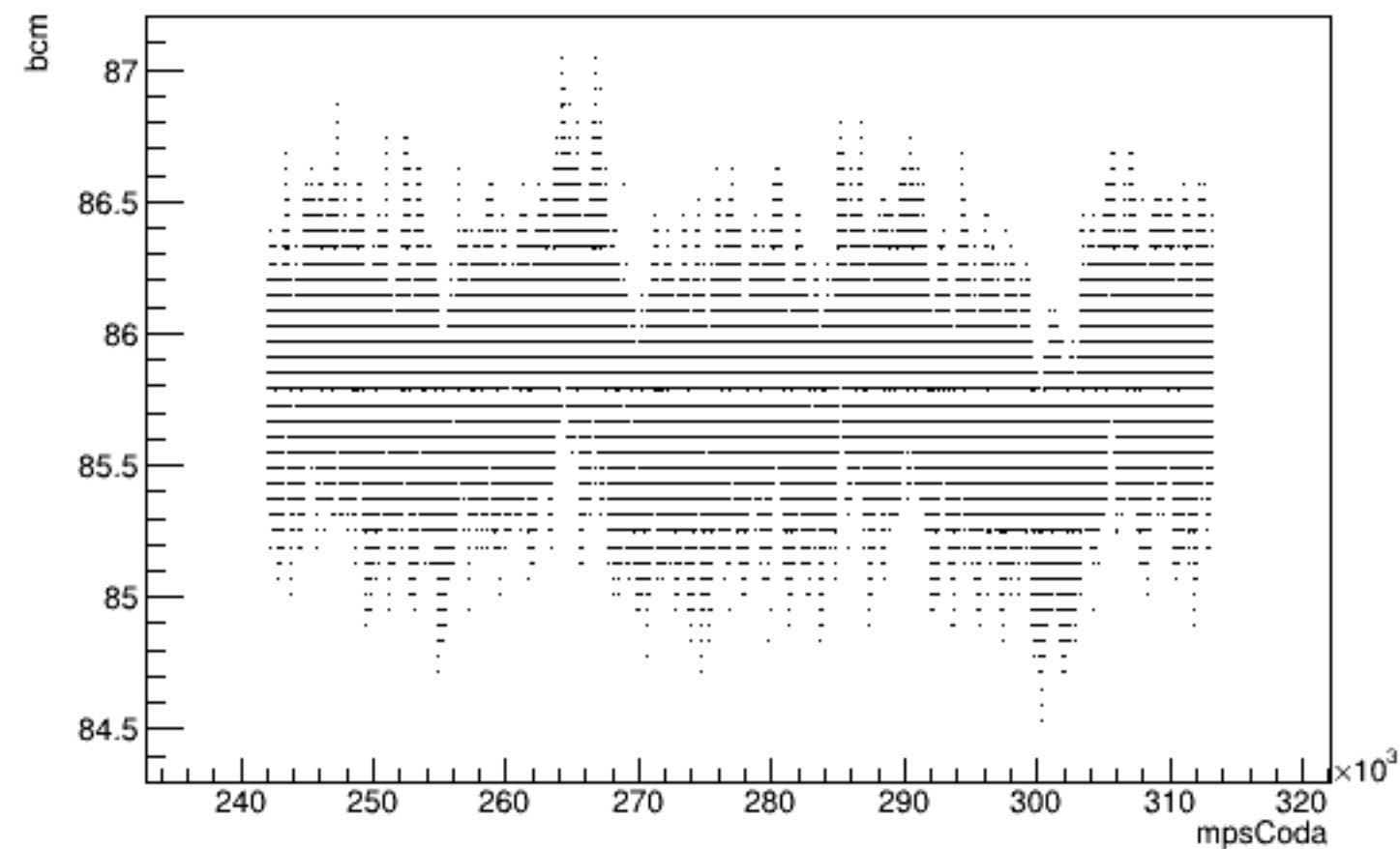
beamState + 1:mpsCoda {mpsCoda&gt;=242073 &amp;&amp; mpsCoda&lt;=313152}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=242073 &amp;&amp; mpsCoda&lt;=313152}



bcm:mpsCoda {mpsCoda&gt;=242073 &amp;&amp; mpsCoda&lt;=313152}



## Cycle 7, Diffs

Entries: 1610

Mean: 0.1866 +/- 0.0074

Std Dev: 0.2969 +/- 0.0052

Entries: 4610

Mean: 0.3124 +/- 0.0053

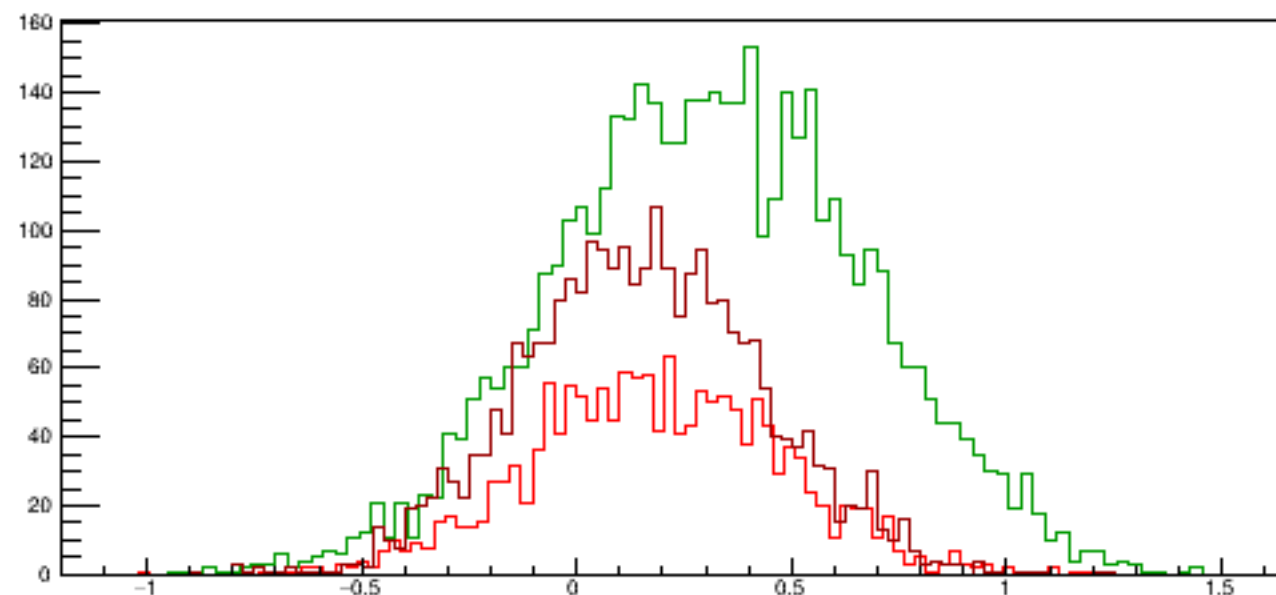
Std Dev: 0.3600 +/- 0.0037

Entries: 2660

Mean: 0.1532 +/- 0.0055

Std Dev: 0.2816 +/- 0.0039

Run 4591 quartetwise, Diffs



## Cycle 7, Sums

Entries: 1610

Mean: 13.7088 +/- 0.0087

Std Dev: 0.3473 +/- 0.0061

Entries: 4610

Mean: 21.9871 +/- 0.0081

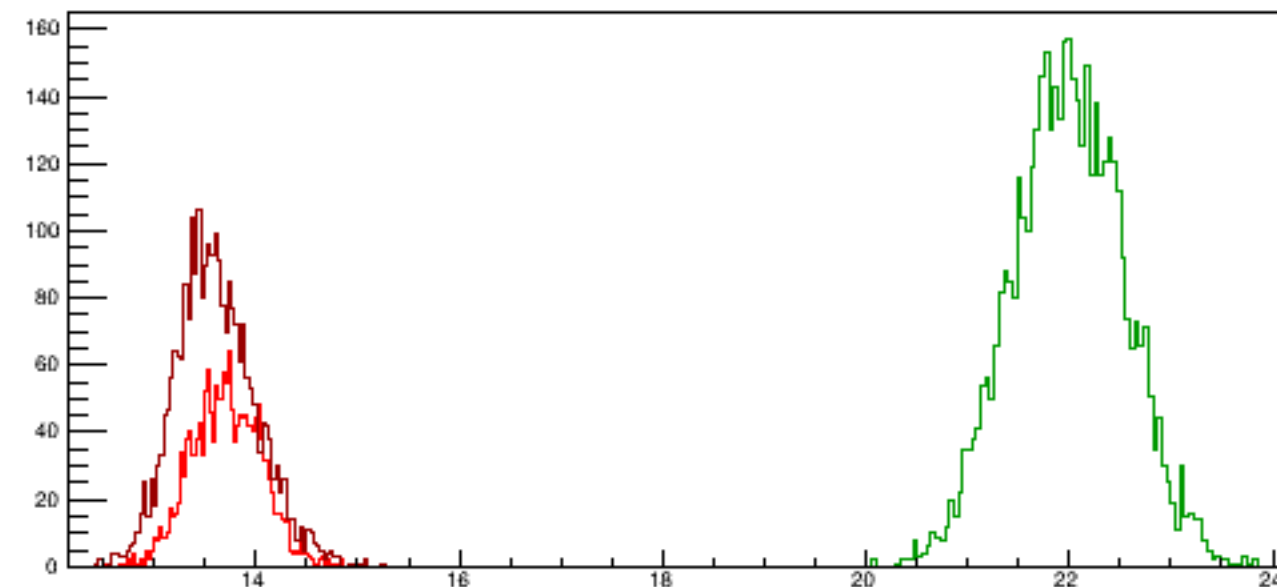
Std Dev: 0.5486 +/- 0.0057

Entries: 2660

Mean: 13.6083 +/- 0.0077

Std Dev: 0.3956 +/- 0.0054

Run 4591 quartetwise, Sums



## Cycle 7, Asyms

Entries: 1610

Mean: 0.0224 +/- 0.0009

Std Dev: 0.0356 +/- 0.0006

Entries: 4610

Mean: 0.0374 +/- 0.0006

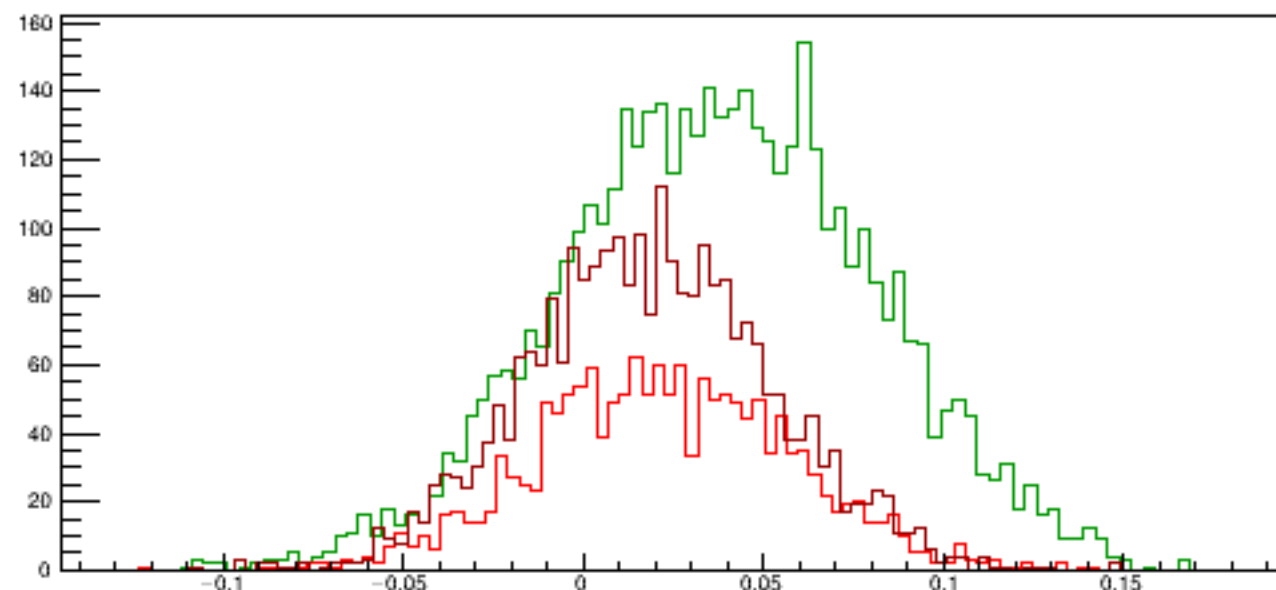
Std Dev: 0.0431 +/- 0.0004

Entries: 2660

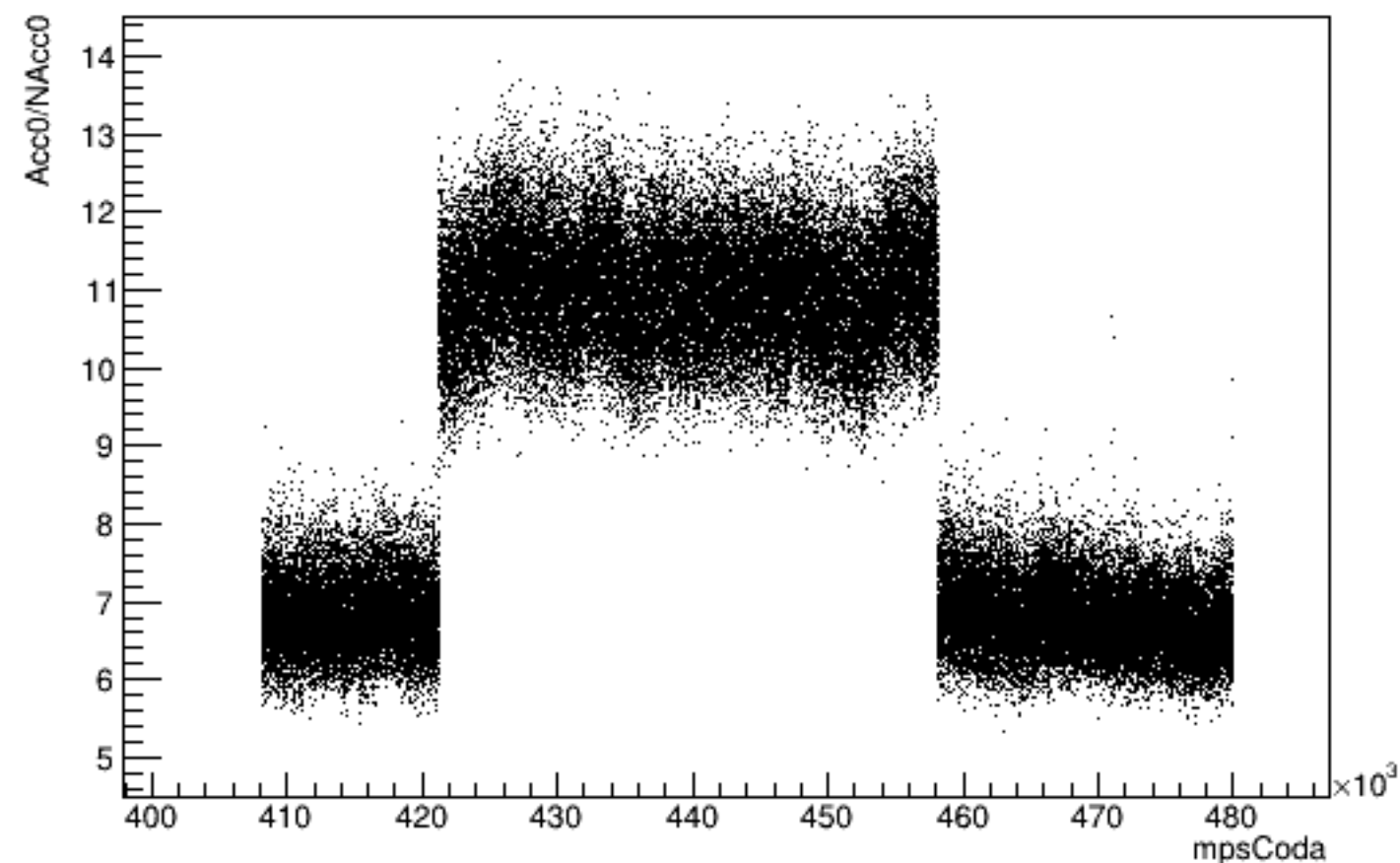
Mean: 0.0184 +/- 0.0007

Std Dev: 0.0338 +/- 0.0005

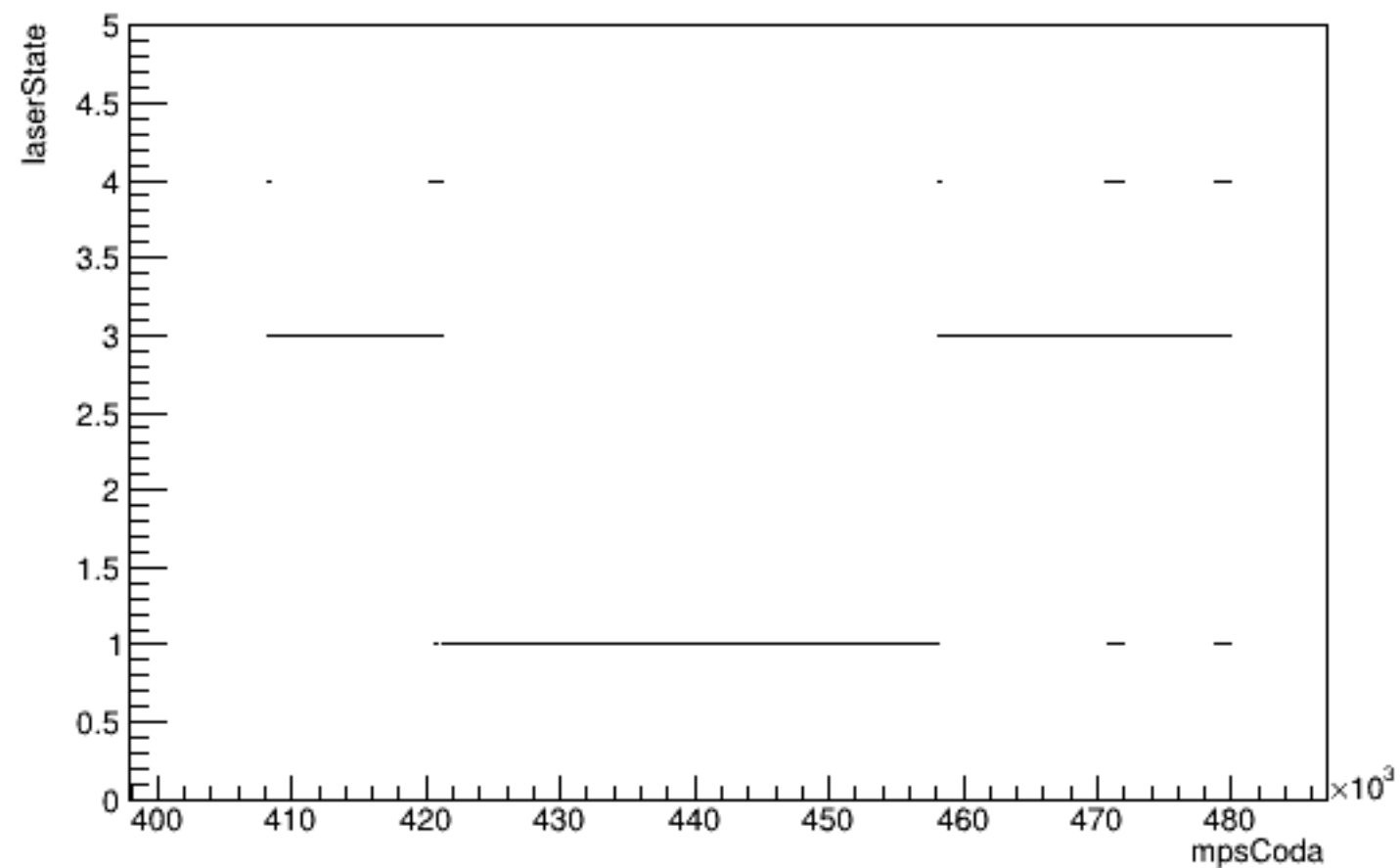
Run 4591 quartetwise, Asyms



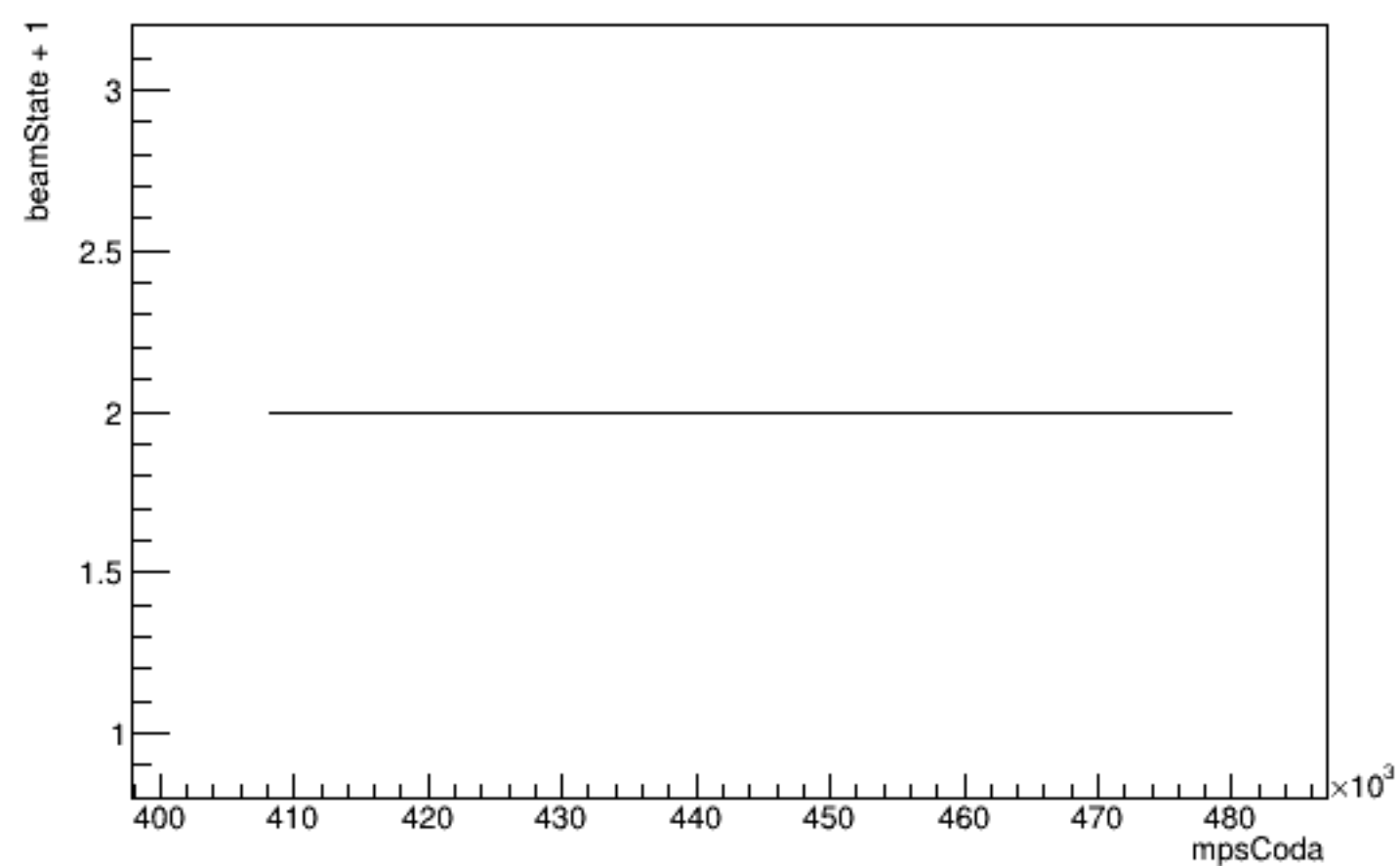
Acc0/NAcc0:mpsCoda (mpsCoda>=408129 && mpsCoda<=479960 && beamState==1)



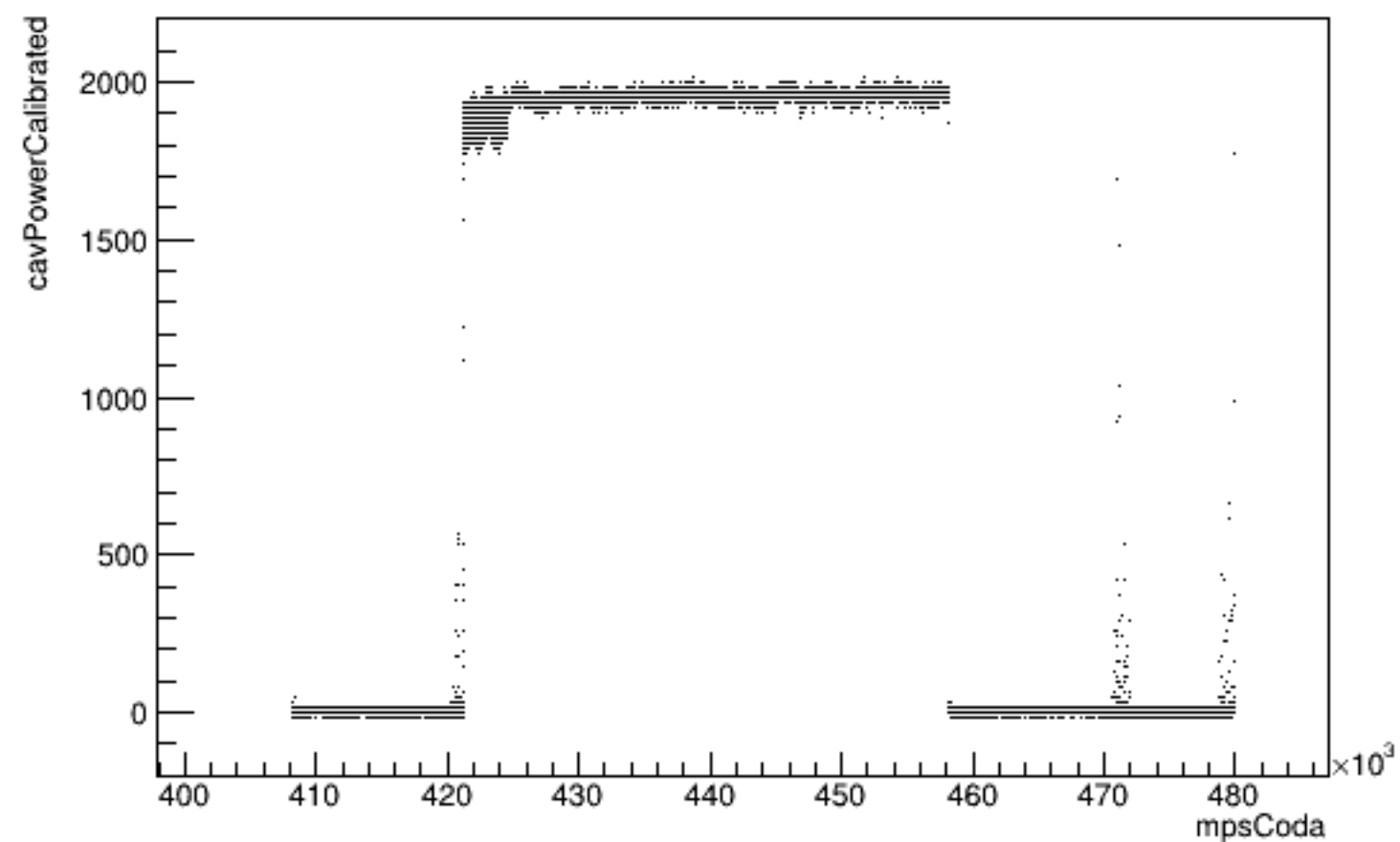
laserState:mpsCoda {mpsCoda&gt;=408129 &amp;&amp; mpsCoda&lt;=479960}



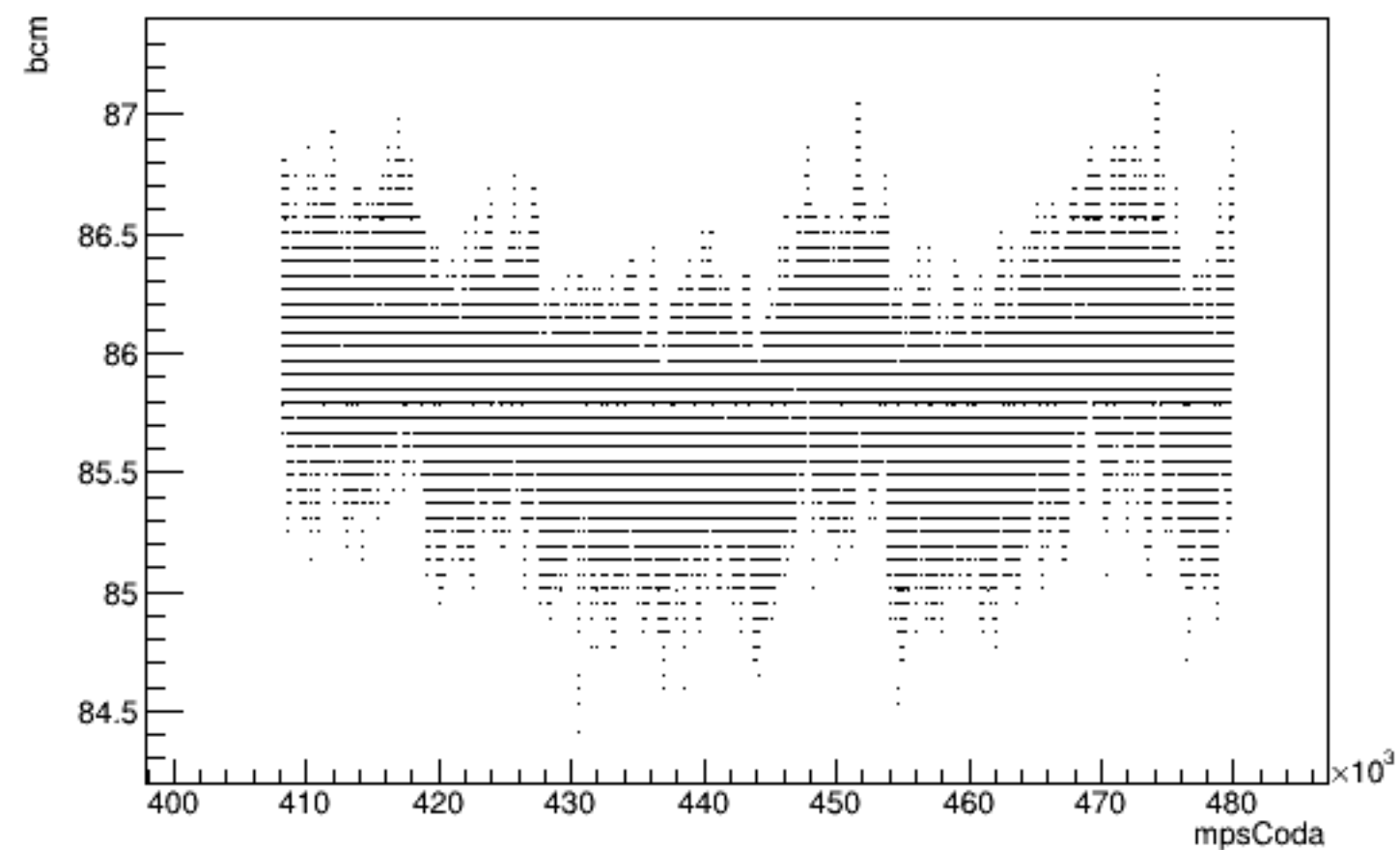
beamState + 1:mpsCoda {mpsCoda&gt;=408129 &amp;&amp; mpsCoda&lt;=479960}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=408129 &amp;&amp; mpsCoda&lt;=479960}



bcm:mpsCoda {mpsCoda&gt;=408129 &amp;&amp; mpsCoda&lt;=479960}



## Cycle 8, Diffs

Entries: 2660

Mean: 0.1532 +/- 0.0055

Std Dev: 0.2816 +/- 0.0039

Entries: 1437

Mean: 0.2618 +/- 0.0092

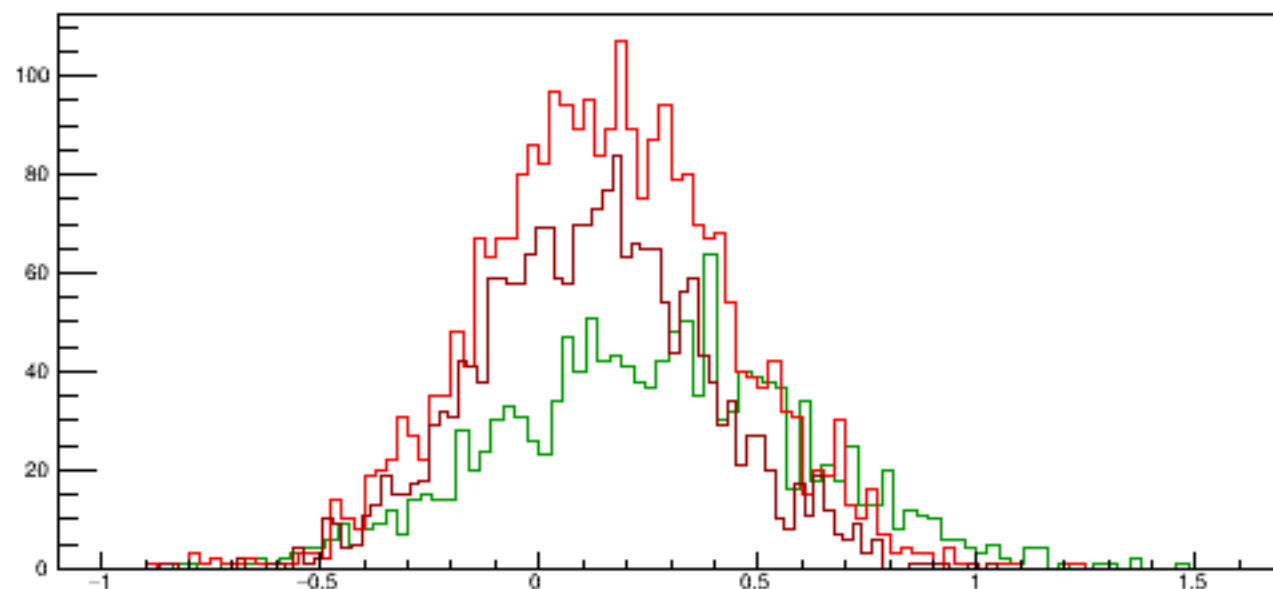
Std Dev: 0.3480 +/- 0.0065

Entries: 2114

Mean: 0.1205 +/- 0.0056

Std Dev: 0.2591 +/- 0.0040

Run 4591 quartetwise, Diffs



## Cycle 8, Sums

Entries: 2660

Mean: 13.6083 +/- 0.0077

Std Dev: 0.3956 +/- 0.0054

Entries: 1437

Mean: 21.7724 +/- 0.0127

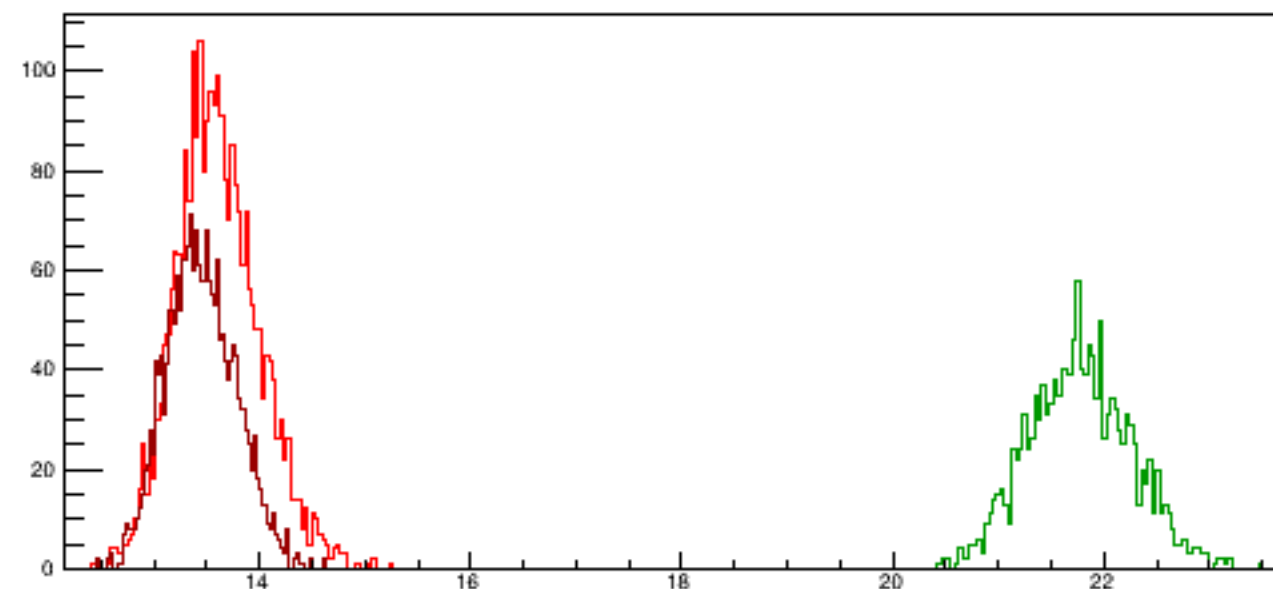
Std Dev: 0.4824 +/- 0.0090

Entries: 2114

Mean: 13.4505 +/- 0.0071

Std Dev: 0.3265 +/- 0.0050

Run 4591 quartetwise, Sums



## Cycle 8, Asyms

Entries: 2660

Mean: 0.0186 +/- 0.0007

Std Dev: 0.0342 +/- 0.0005

Entries: 1437

Mean: 0.0317 +/- 0.0011

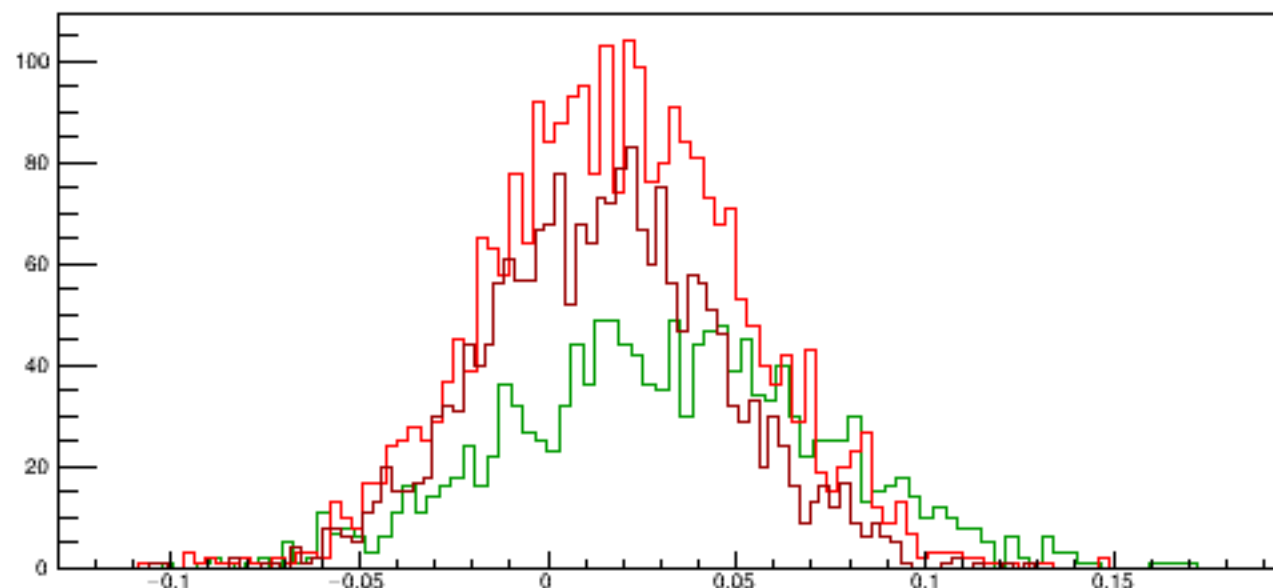
Std Dev: 0.0423 +/- 0.0008

Entries: 2114

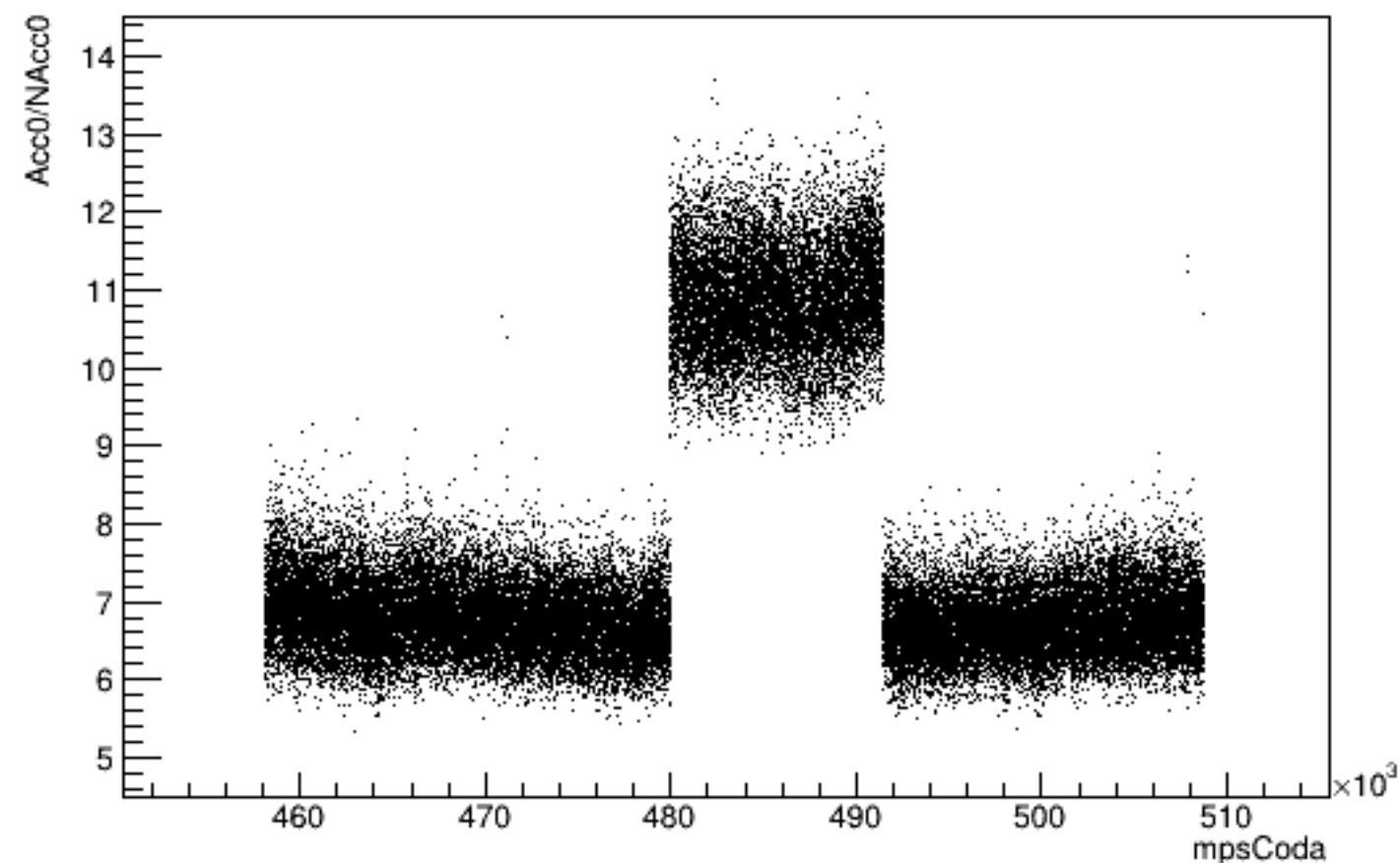
Mean: 0.0146 +/- 0.0007

Std Dev: 0.0314 +/- 0.0005

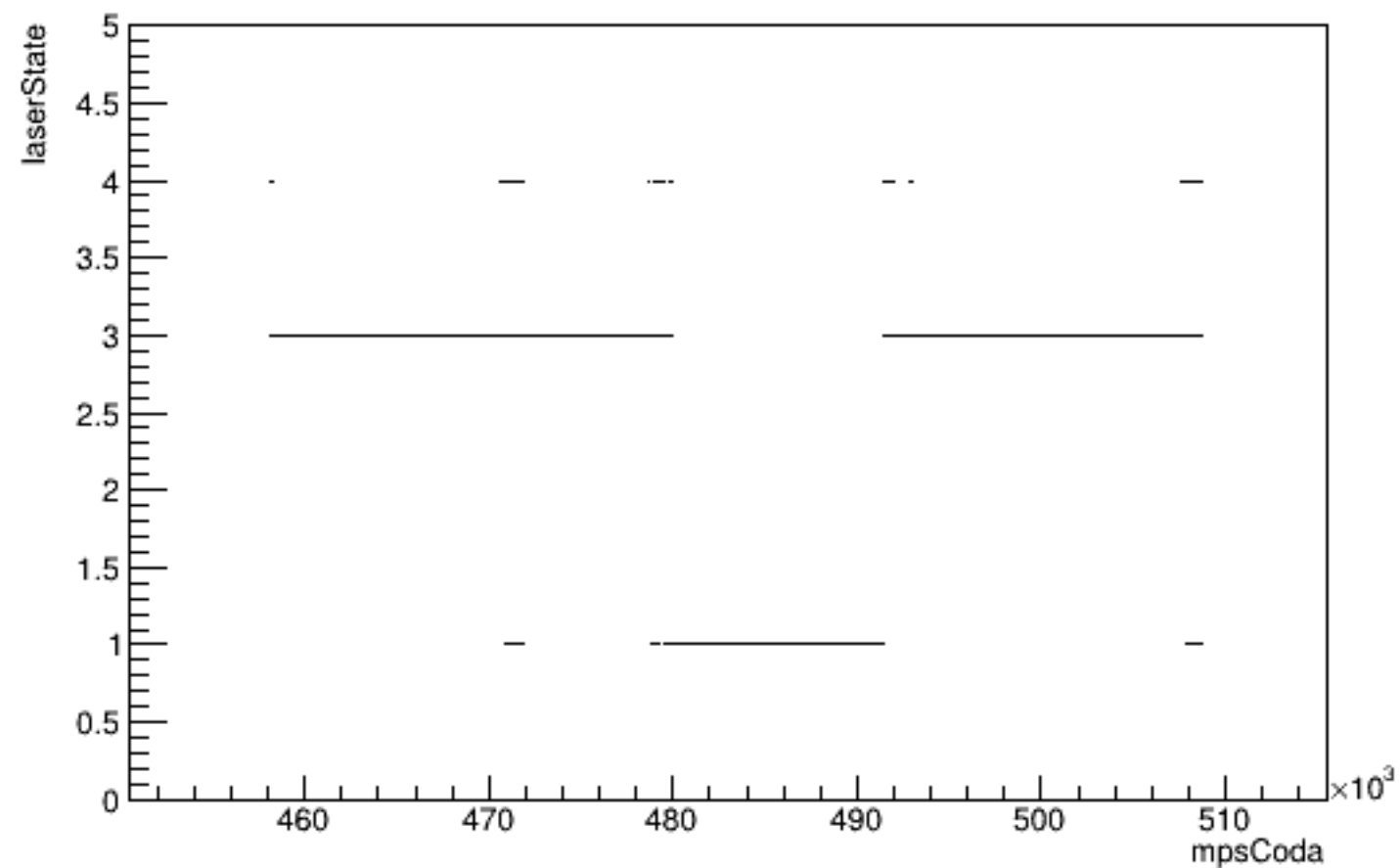
Run 4591 quartetwise, Asyms



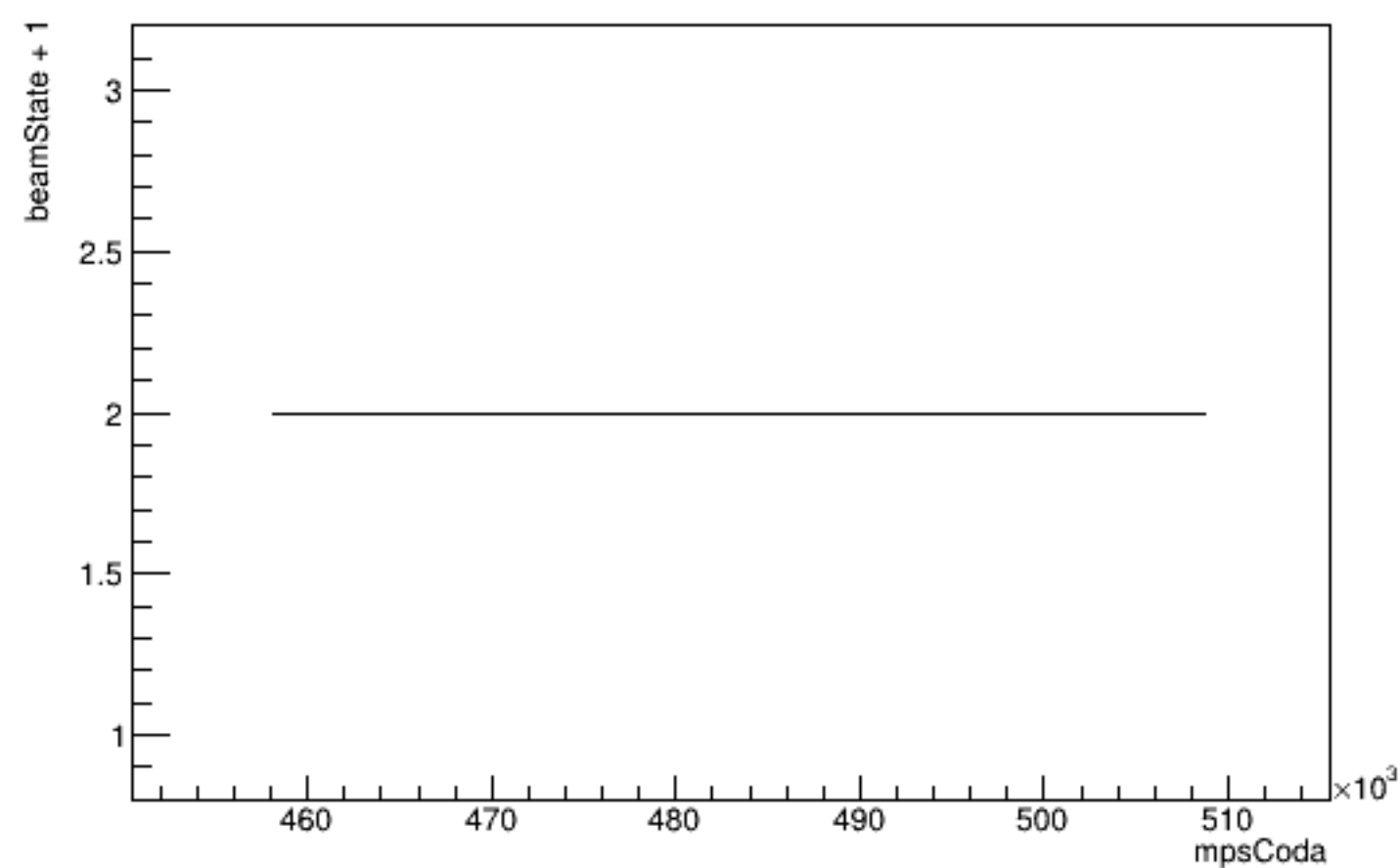
Acc0/NAcc0:mpsCoda (mpsCoda>=458121 && mpsCoda<=508720 && beamState==1)



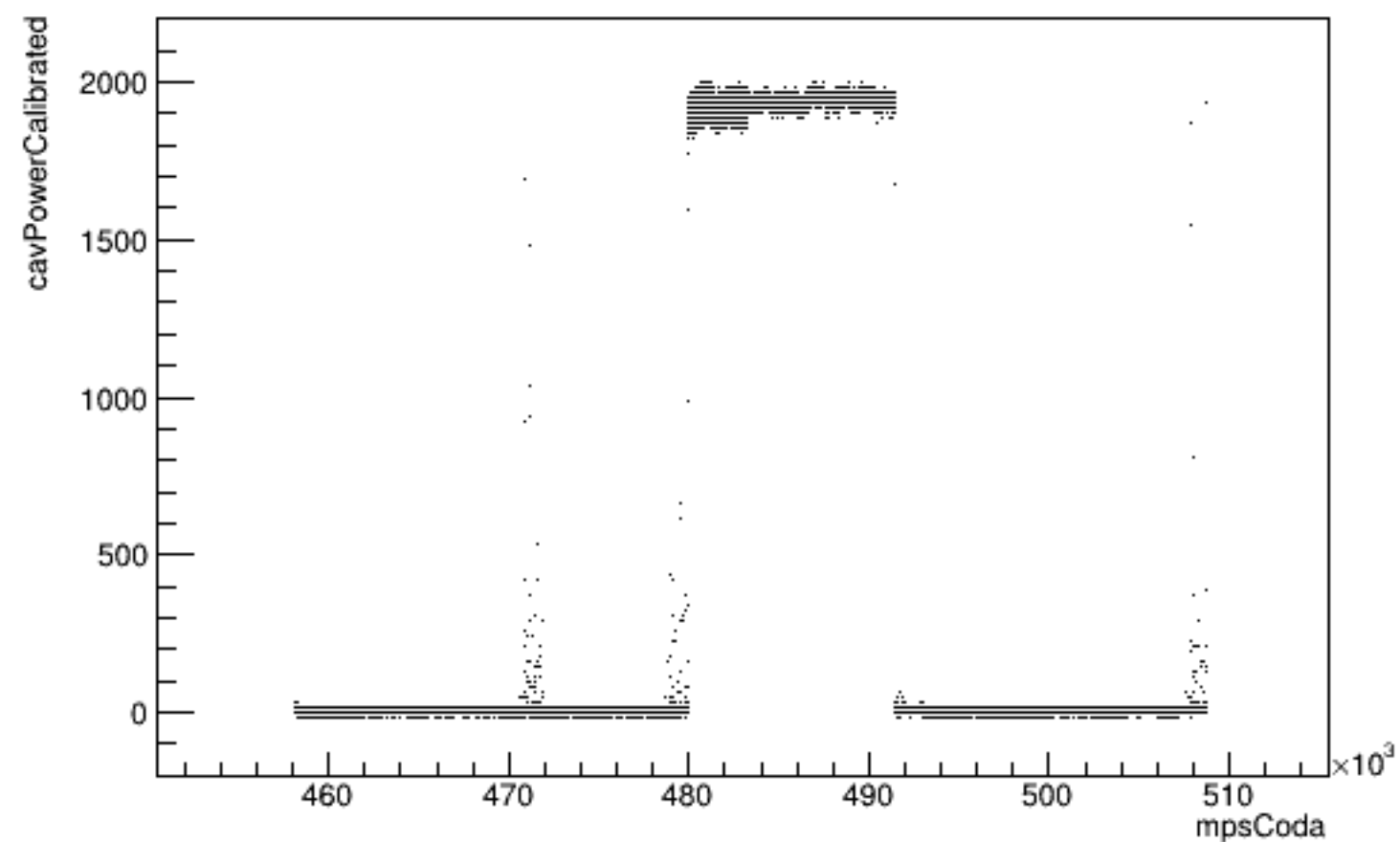
laserState:mpsCoda {mpsCoda&gt;=458121 &amp;&amp; mpsCoda&lt;=508720}



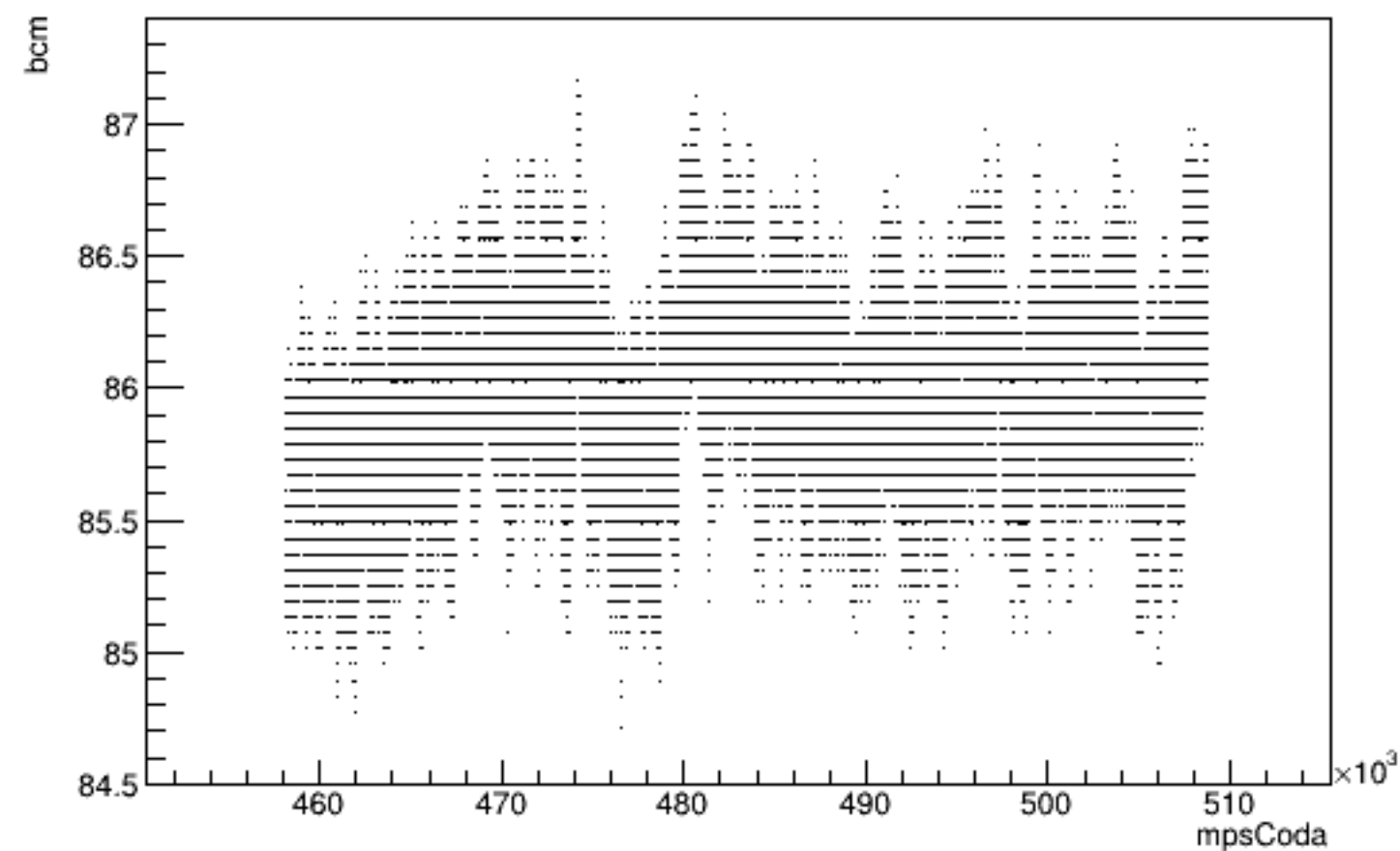
beamState + 1:mpsCoda {mpsCoda&gt;=458121 &amp;&amp; mpsCoda&lt;=508720}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=458121 &amp;&amp; mpsCoda&lt;=508720}



bcm:mpsCoda {mpsCoda&gt;=458121 &amp;&amp; mpsCoda&lt;=508720}



## Cycle 9, Diffs

Entries: 2114

Mean: 0.1205 +/- 0.0056

Std Dev: 0.2591 +/- 0.0040

Entries: 1016

Mean: 0.2649 +/- 0.0105

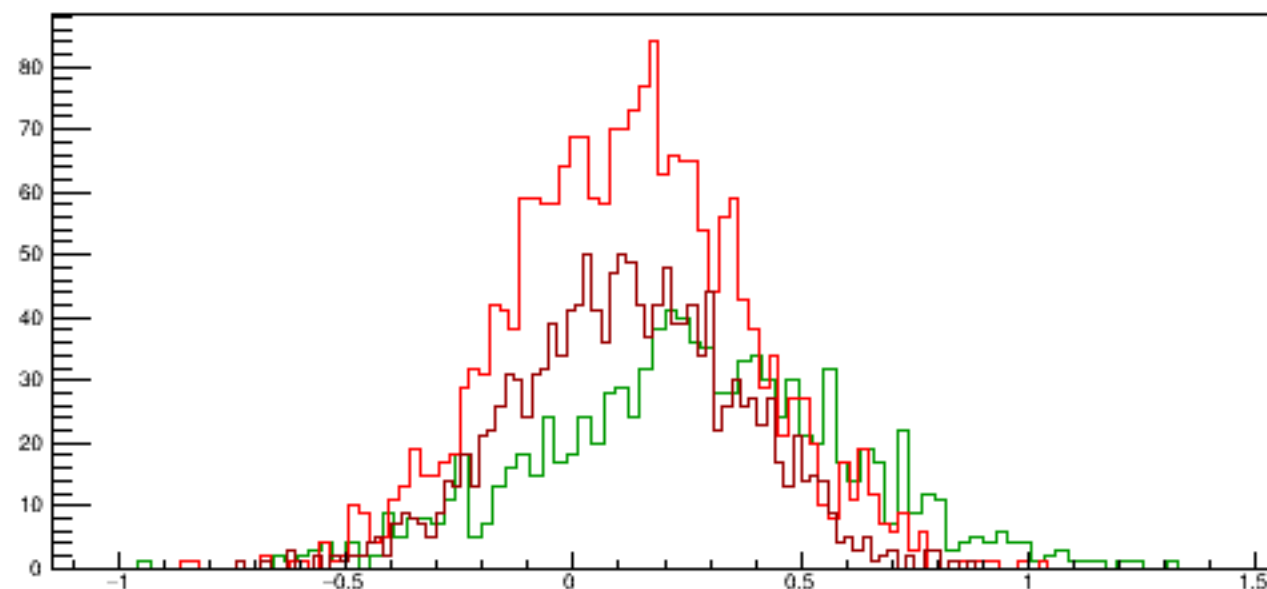
Std Dev: 0.3350 +/- 0.0074

Entries: 1458

Mean: 0.1197 +/- 0.0064

Std Dev: 0.2456 +/- 0.0045

Run 4591 quartetwise, Diffs



## Cycle 9, Sums

Entries: 2114

Mean: 13.4505 +/- 0.0071

Std Dev: 0.3265 +/- 0.0050

Entries: 1016

Mean: 21.5867 +/- 0.0157

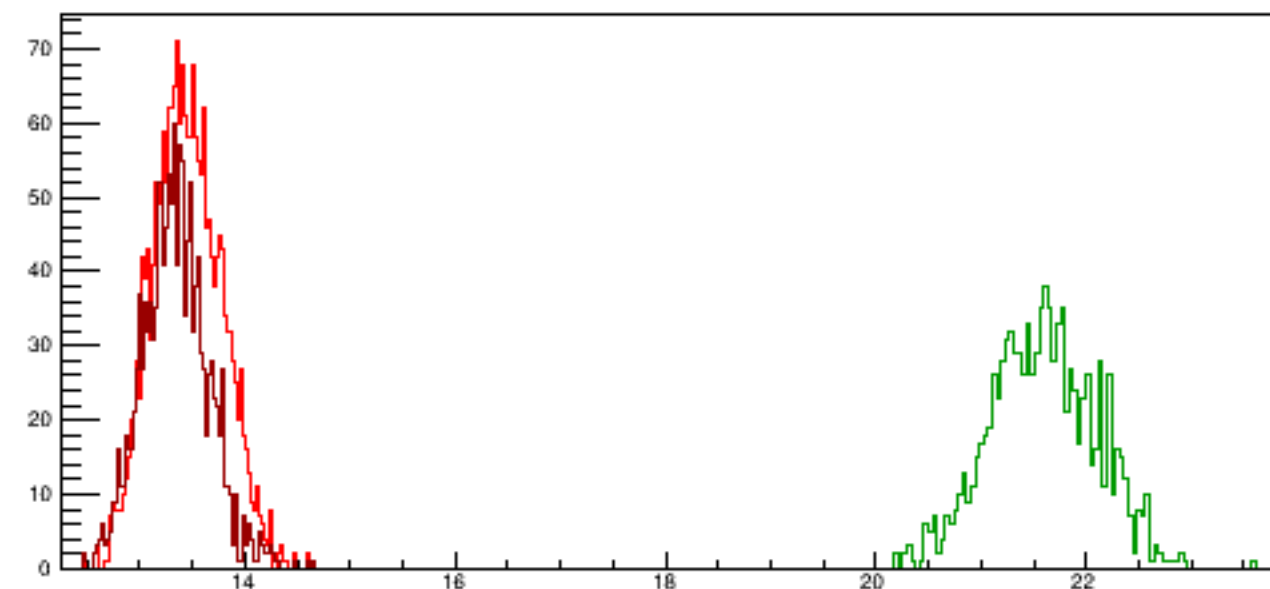
Std Dev: 0.5010 +/- 0.0111

Entries: 1458

Mean: 13.3415 +/- 0.0082

Std Dev: 0.3124 +/- 0.0058

Run 4591 quartetwise, Sums



## Cycle 9, Asyms

Entries: 2114

Mean: 0.0147 +/- 0.0007

Std Dev: 0.0316 +/- 0.0005

Entries: 1016

Mean: 0.0325 +/- 0.0013

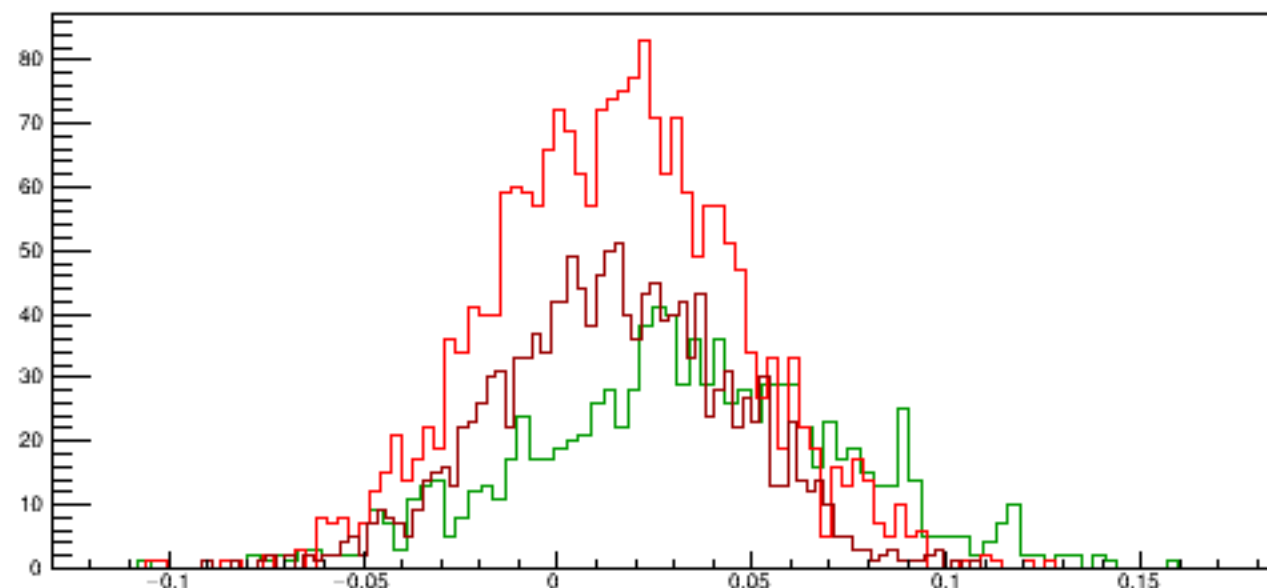
Std Dev: 0.0406 +/- 0.0009

Entries: 1458

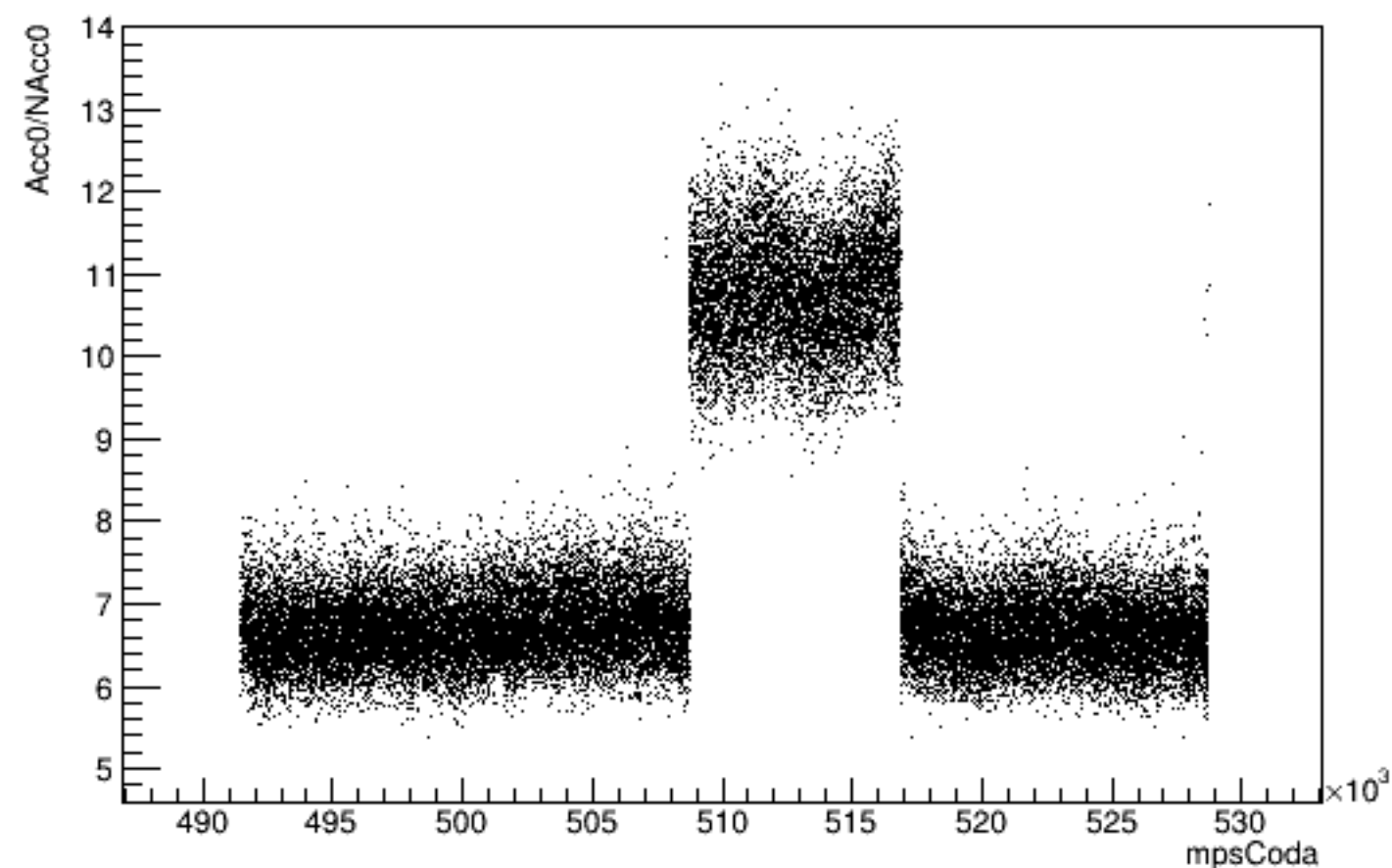
Mean: 0.0146 +/- 0.0008

Std Dev: 0.0300 +/- 0.0006

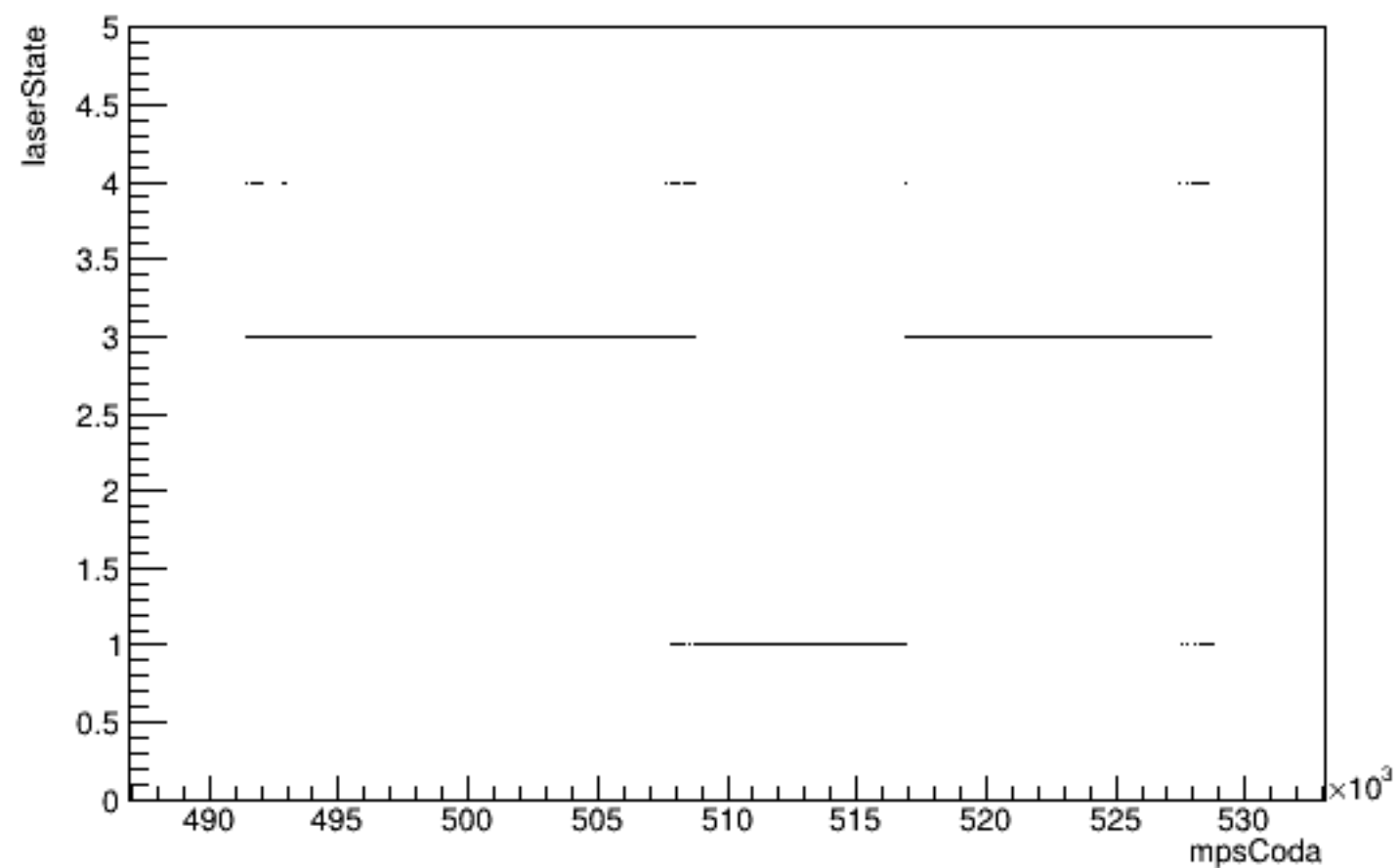
Run 4591 quartetwise, Asyms



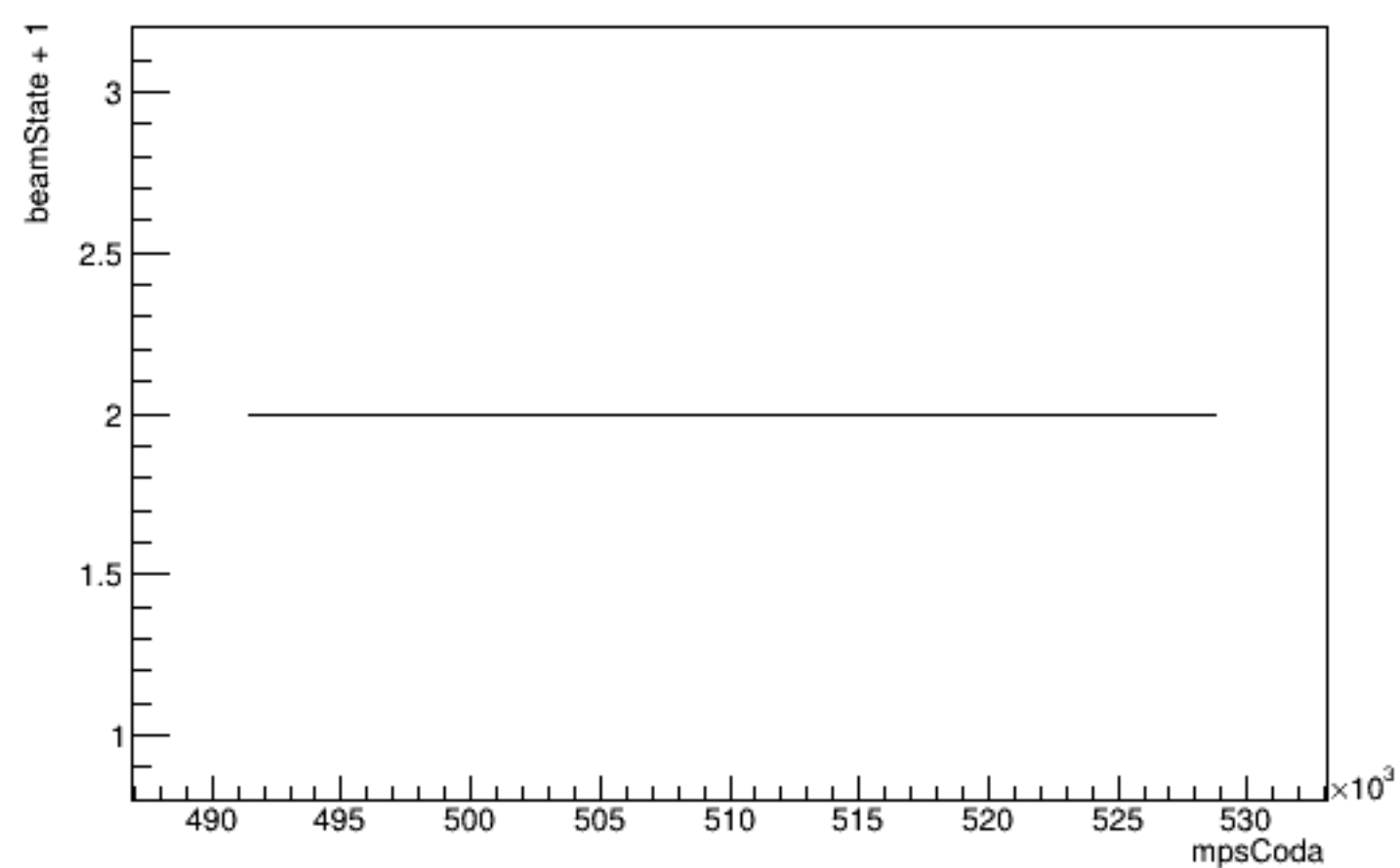
Acc0/NAcc0:mpsCoda (mpsCoda>=491465 && mpsCoda<=528712 && beamState==1)



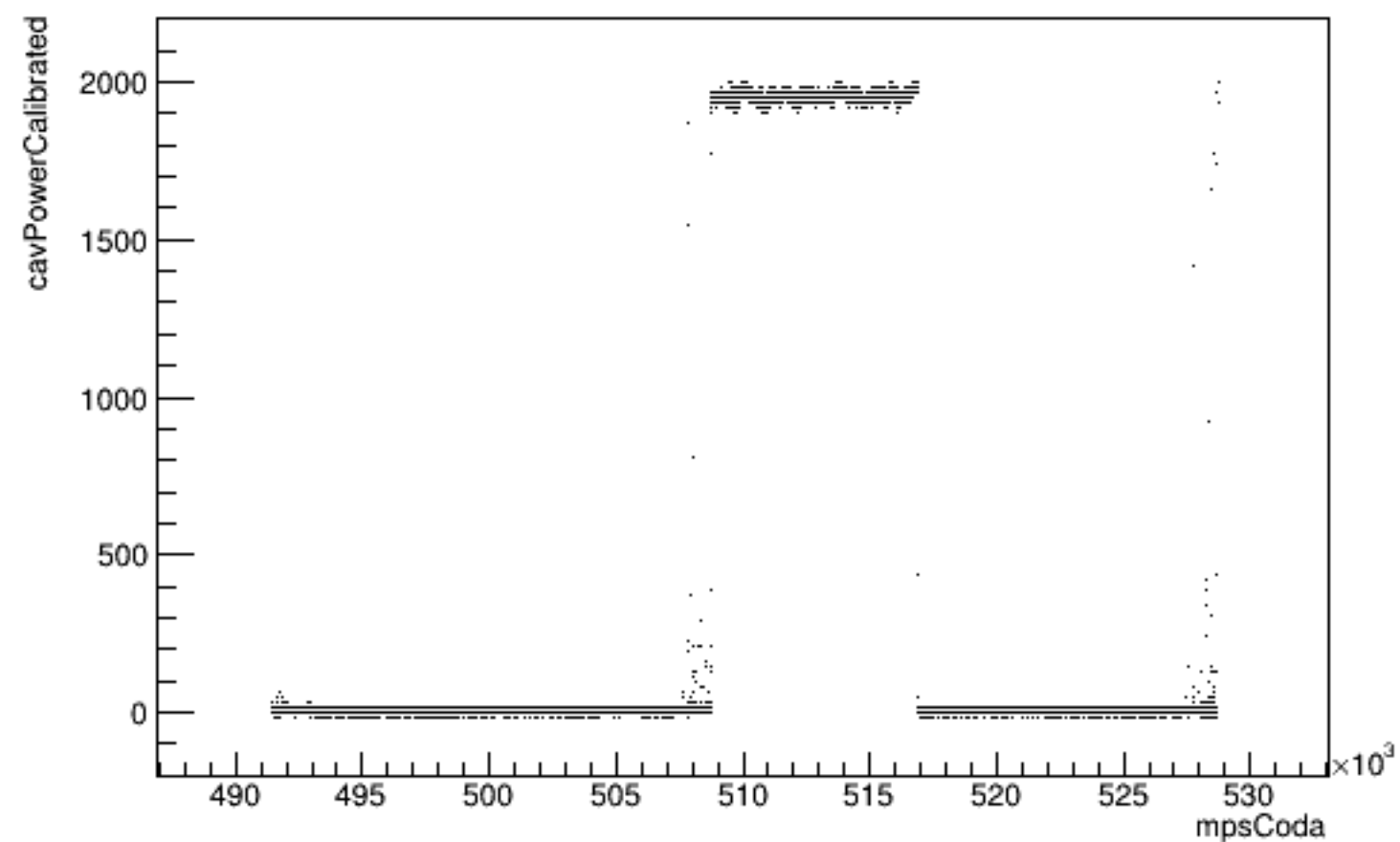
laserState:mpsCoda {mpsCoda&gt;=491465 &amp;&amp; mpsCoda&lt;=528712}



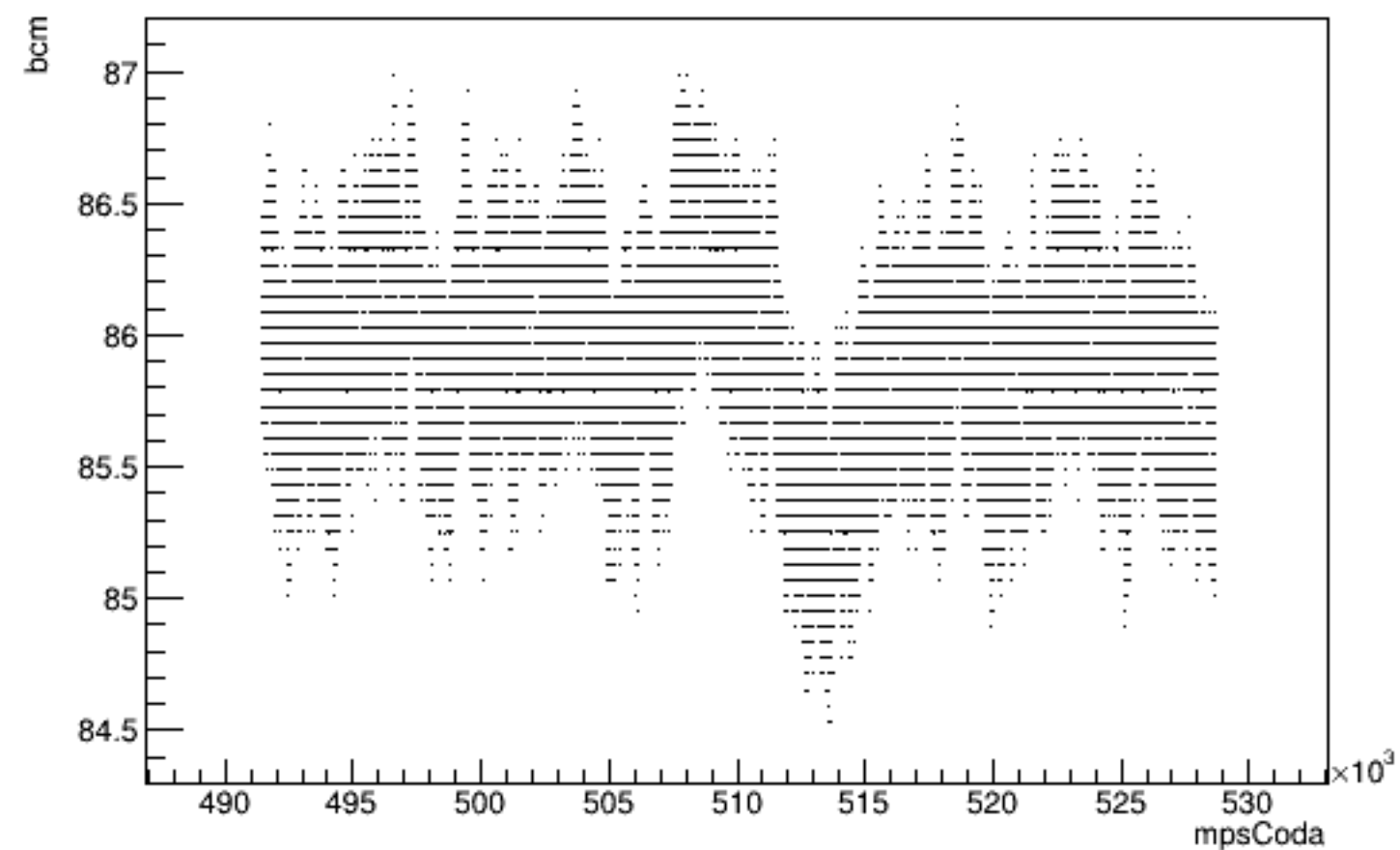
beamState + 1:mpsCoda {mpsCoda&gt;=491465 &amp;&amp; mpsCoda&lt;=528712}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=491465 &amp;&amp; mpsCoda&lt;=528712}



bcm:mpsCoda {mpsCoda&gt;=491465 &amp;&amp; mpsCoda&lt;=528712}



## Cycle 10, Diffs

Entries: 1458

Mean: 0.1197 +/- 0.0064

Std Dev: 0.2456 +/- 0.0045

Entries: 4322

Mean: 0.2174 +/- 0.0051

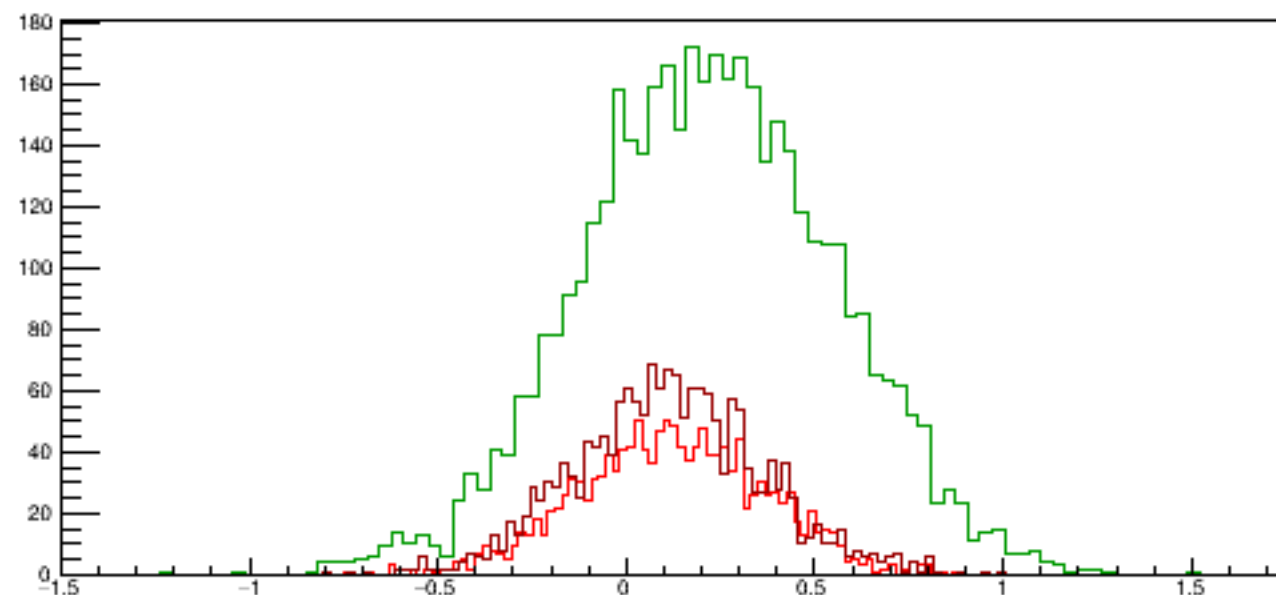
Std Dev: 0.3344 +/- 0.0036

Entries: 1750

Mean: 0.1113 +/- 0.0060

Std Dev: 0.2512 +/- 0.0042

Run 4591 quartetwise, Diffs



## Cycle 10, Sums

Entries: 1458

Mean: 13.3415 +/- 0.0082

Std Dev: 0.3124 +/- 0.0058

Entries: 4322

Mean: 21.3730 +/- 0.0076

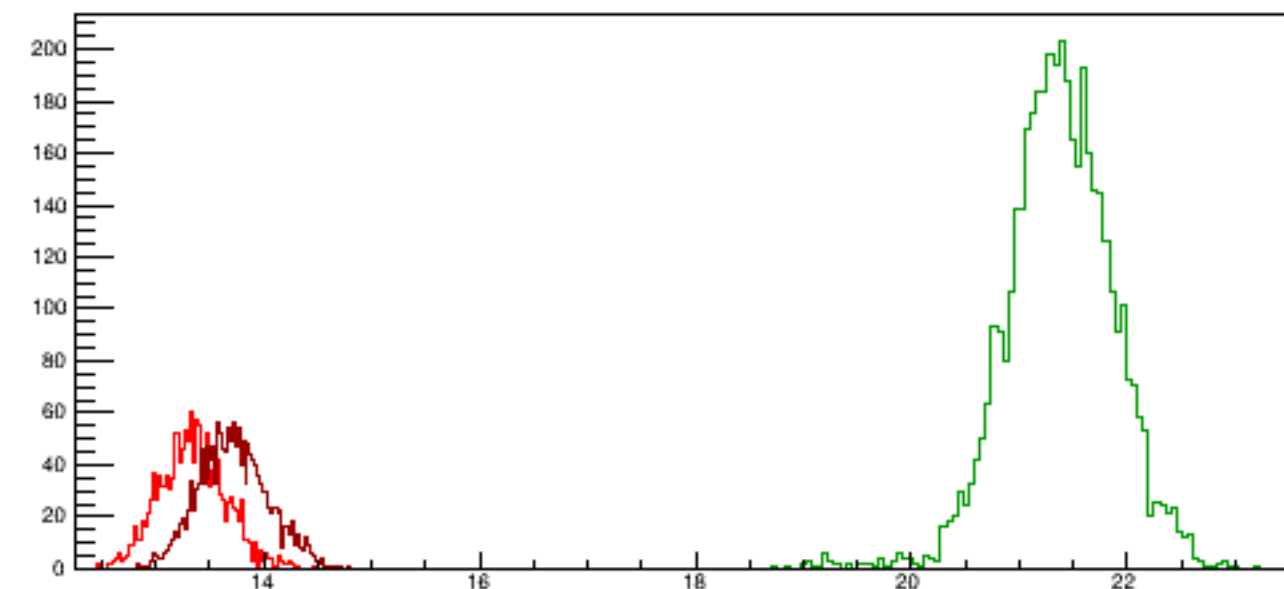
Std Dev: 0.5003 +/- 0.0054

Entries: 1750

Mean: 13.7194 +/- 0.0077

Std Dev: 0.3223 +/- 0.0054

Run 4591 quartetwise, Sums



## Cycle 10, Asyms

Entries: 1458

Mean: 0.0153 +/- 0.0008

Std Dev: 0.0313 +/- 0.0006

Entries: 4322

Mean: 0.0277 +/- 0.0006

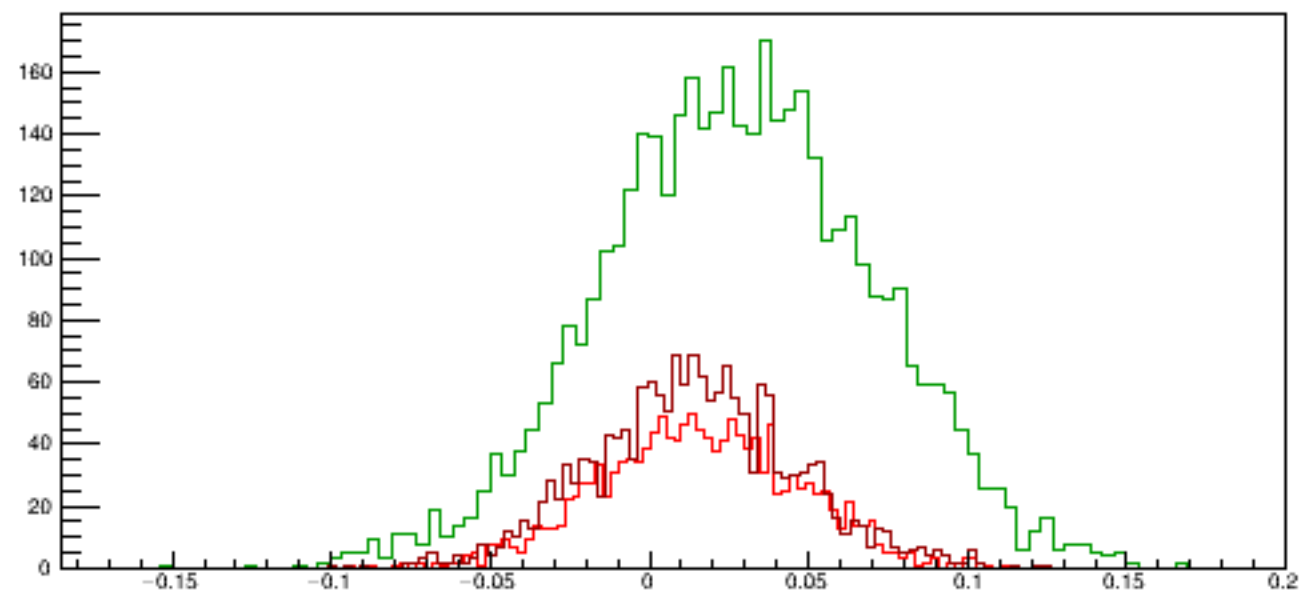
Std Dev: 0.0426 +/- 0.0005

Entries: 1750

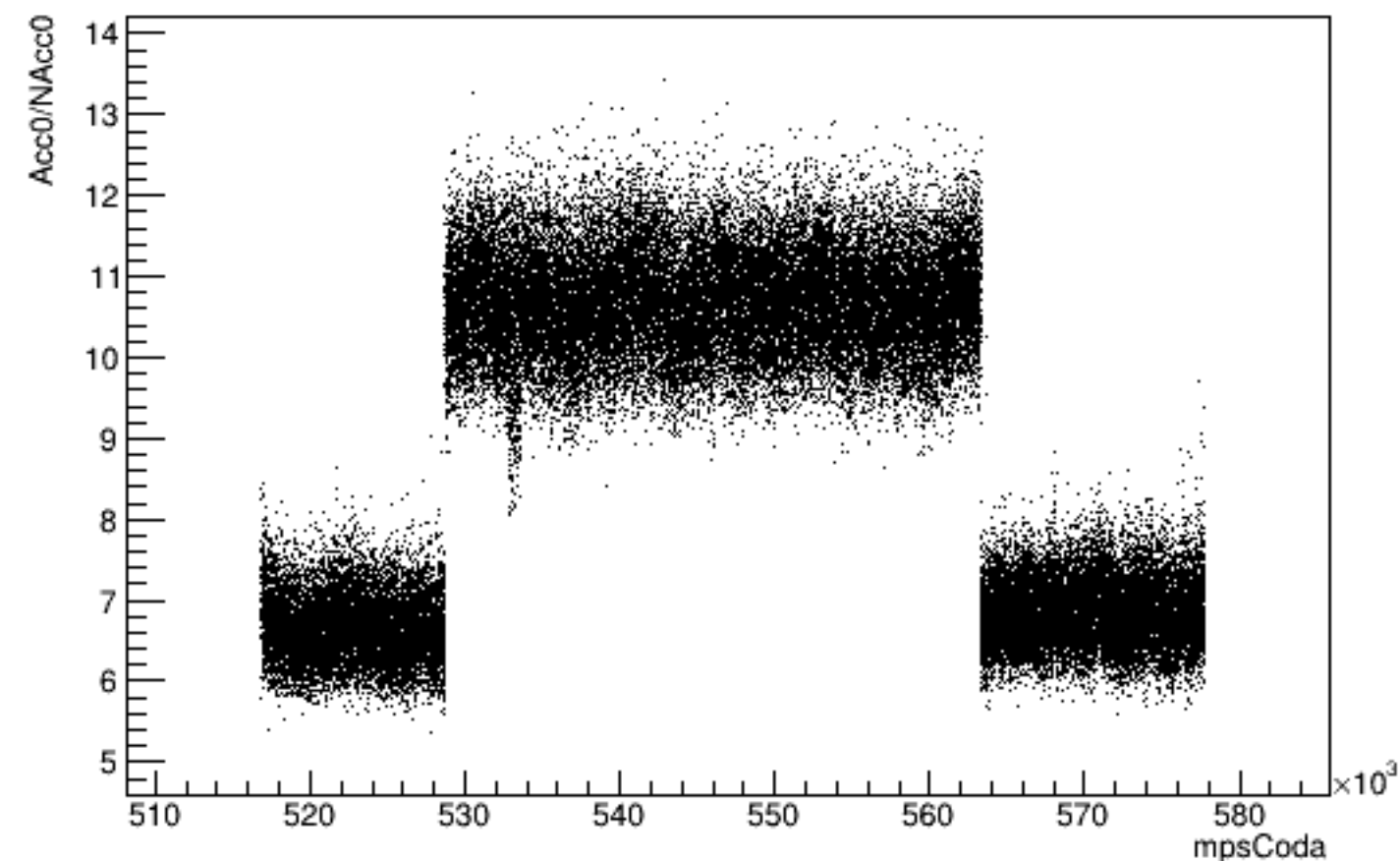
Mean: 0.0142 +/- 0.0008

Std Dev: 0.0320 +/- 0.0005

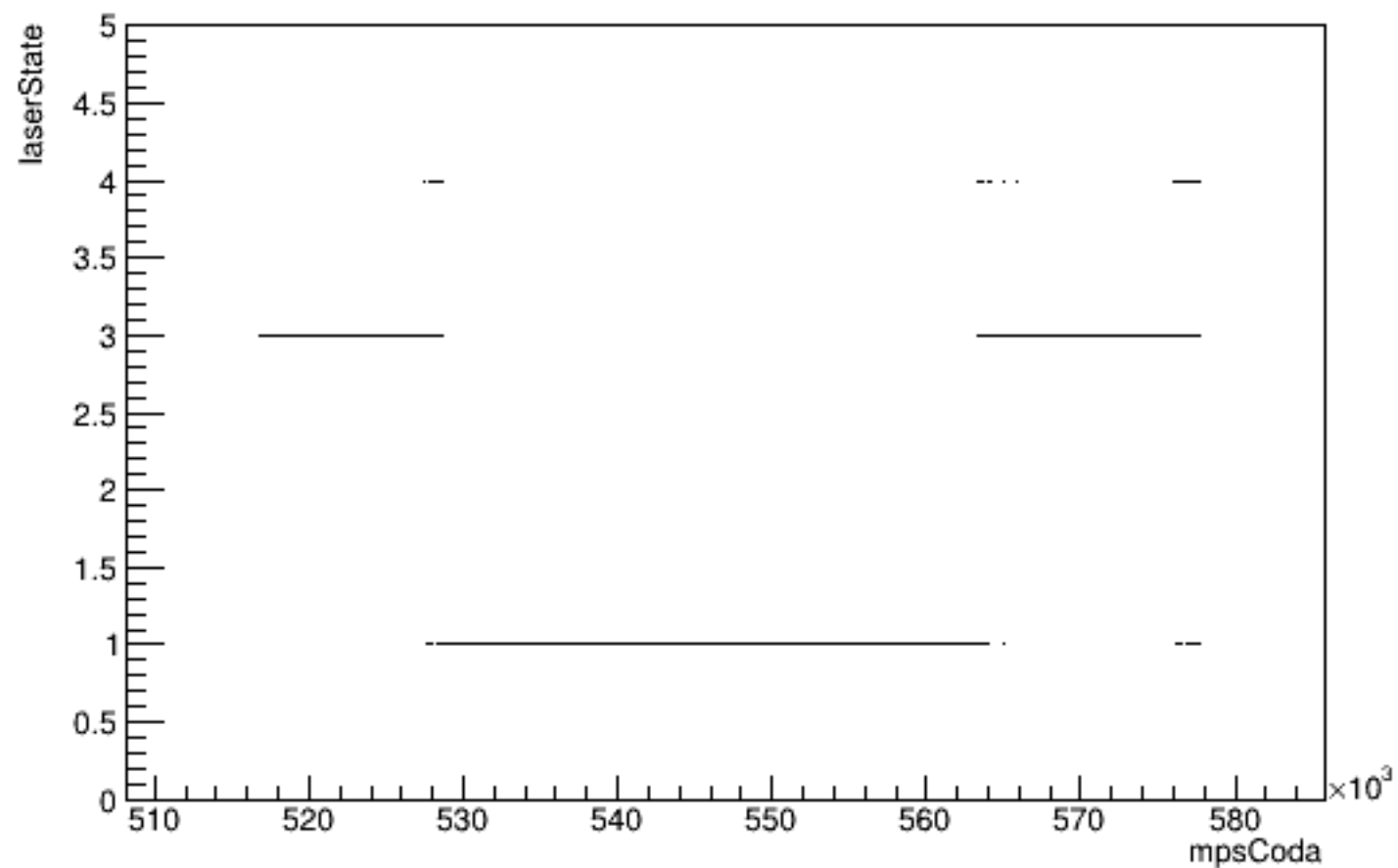
Run 4591 quartetwise, Asyms



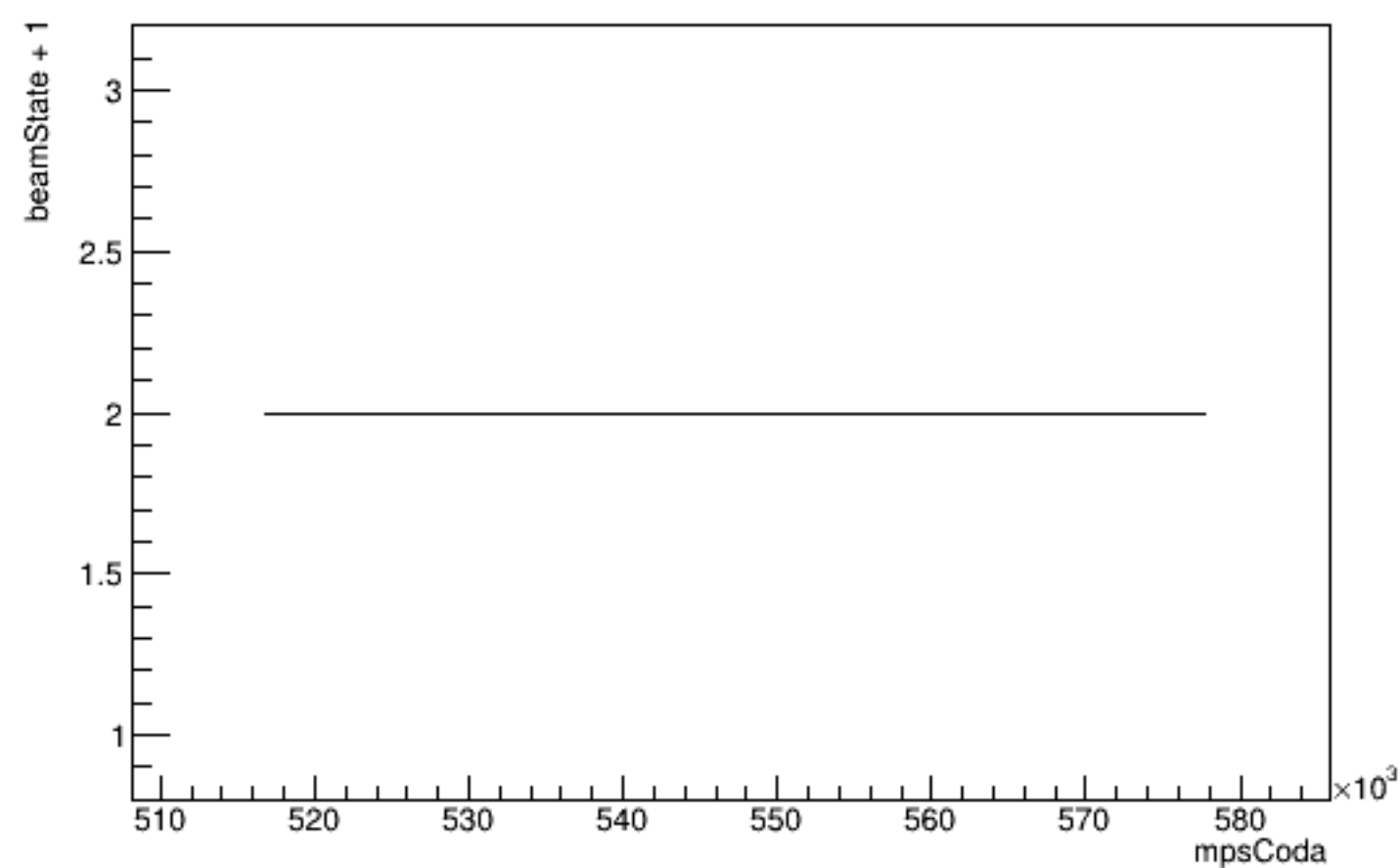
Acc0/NAcc0:mpsCoda (mpsCoda>=516857 && mpsCoda<=577760 && beamState==1)



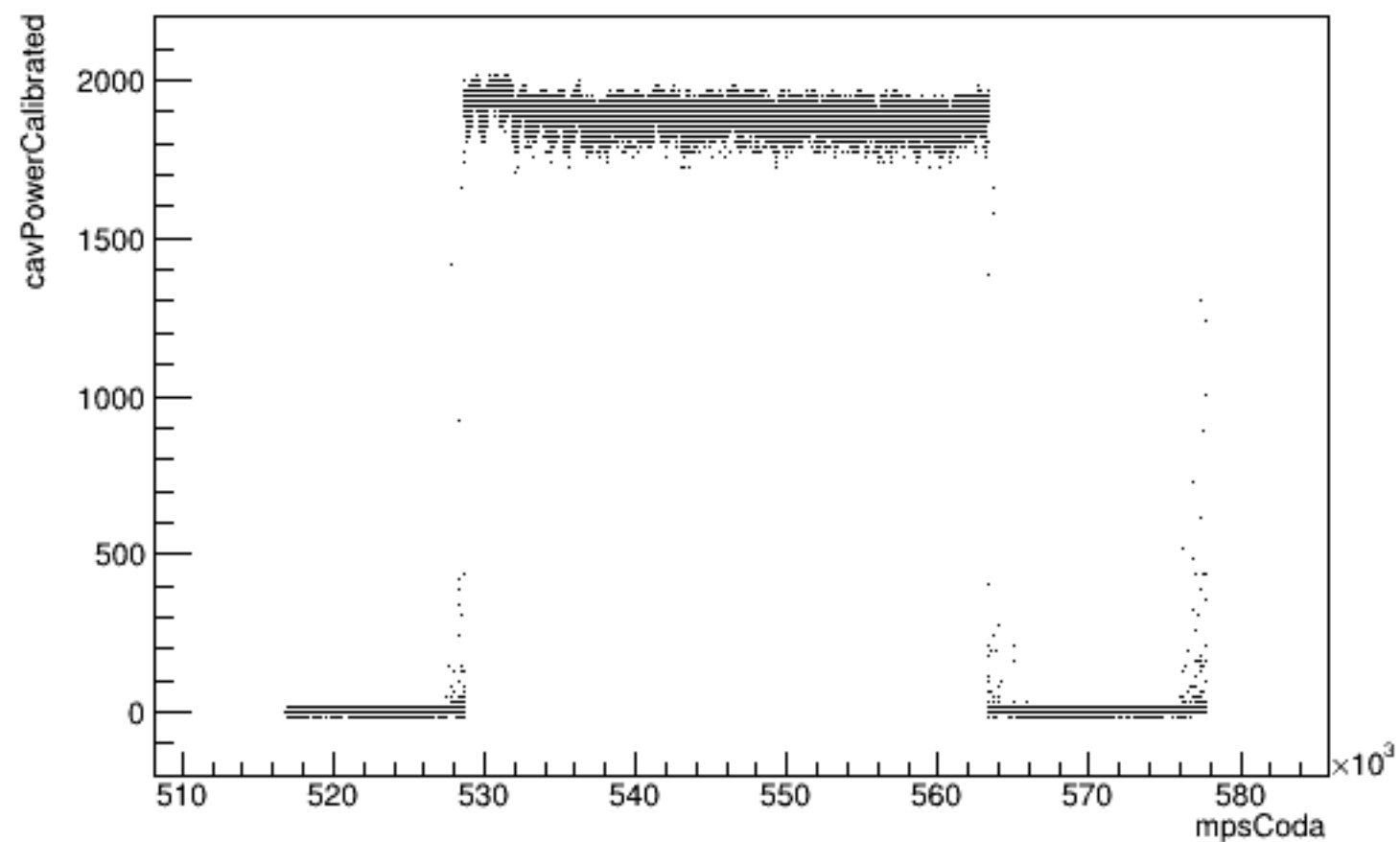
laserState:mpsCoda {mpsCoda&gt;=516857 &amp;&amp; mpsCoda&lt;=577760}



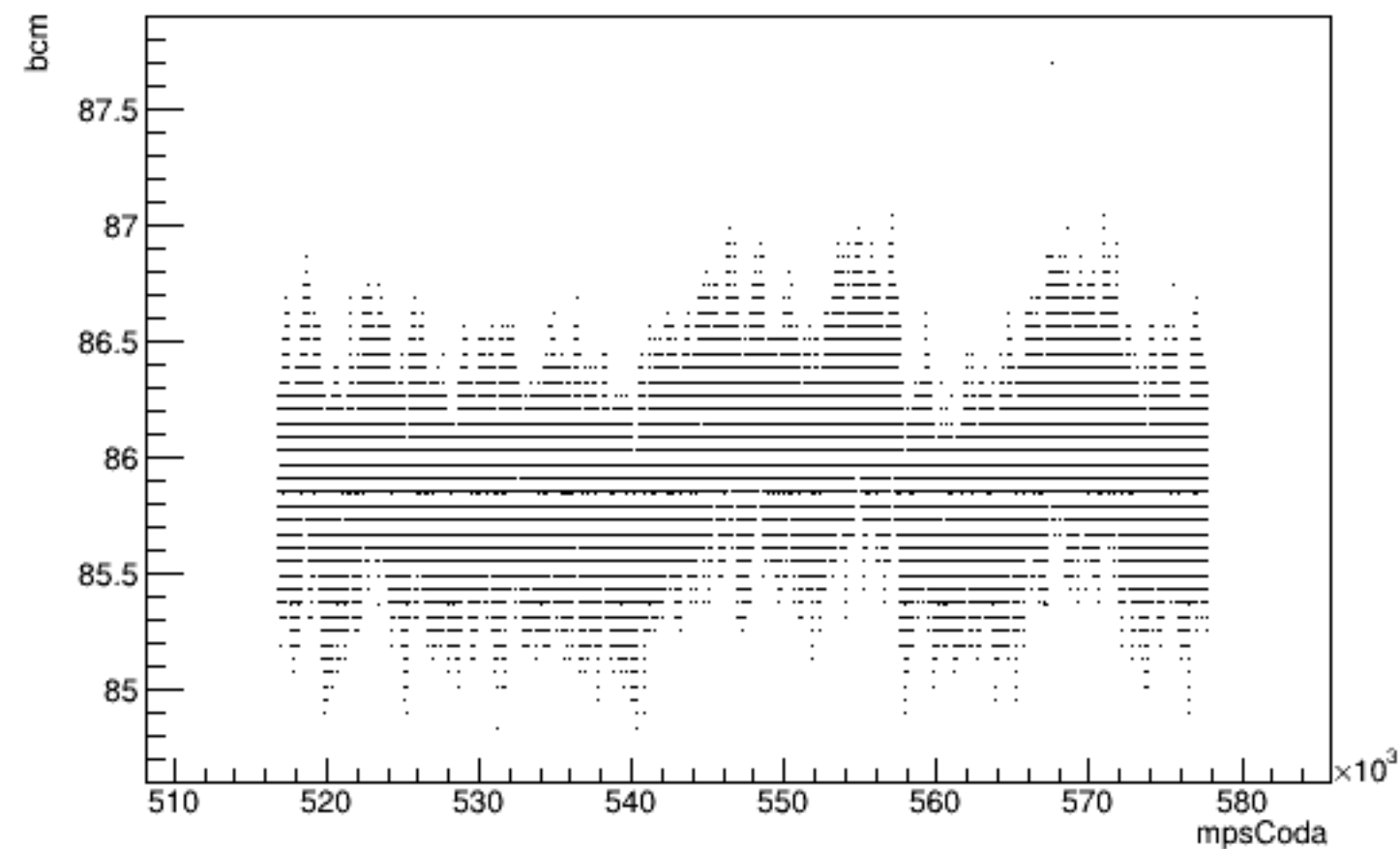
beamState + 1:mpsCoda {mpsCoda&gt;=516857 &amp;&amp; mpsCoda&lt;=577760}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=516857 &amp;&amp; mpsCoda&lt;=577760}



bcm:mpsCoda {mpsCoda&gt;=516857 &amp;&amp; mpsCoda&lt;=577760}



## Cycle 11, Diffs

Entries: 1750

Mean: 0.1113 +/- 0.0060

Std Dev: 0.2512 +/- 0.0042

Entries: 476

Mean: 0.2167 +/- 0.0147

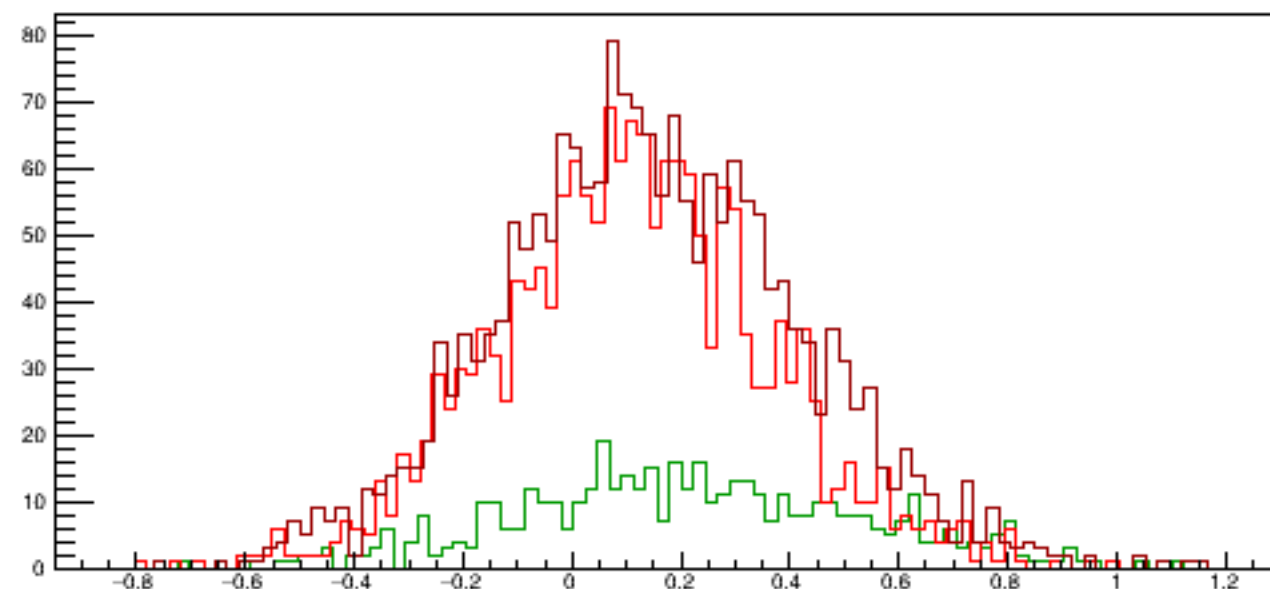
Std Dev: 0.3218 +/- 0.0104

Entries: 1996

Mean: 0.1422 +/- 0.0062

Std Dev: 0.2762 +/- 0.0044

Run 4591 quartetwise, Diffs



## Cycle 11, Sums

Entries: 1750

Mean: 13.7194 +/- 0.0077

Std Dev: 0.3223 +/- 0.0054

Entries: 476

Mean: 21.6694 +/- 0.0213

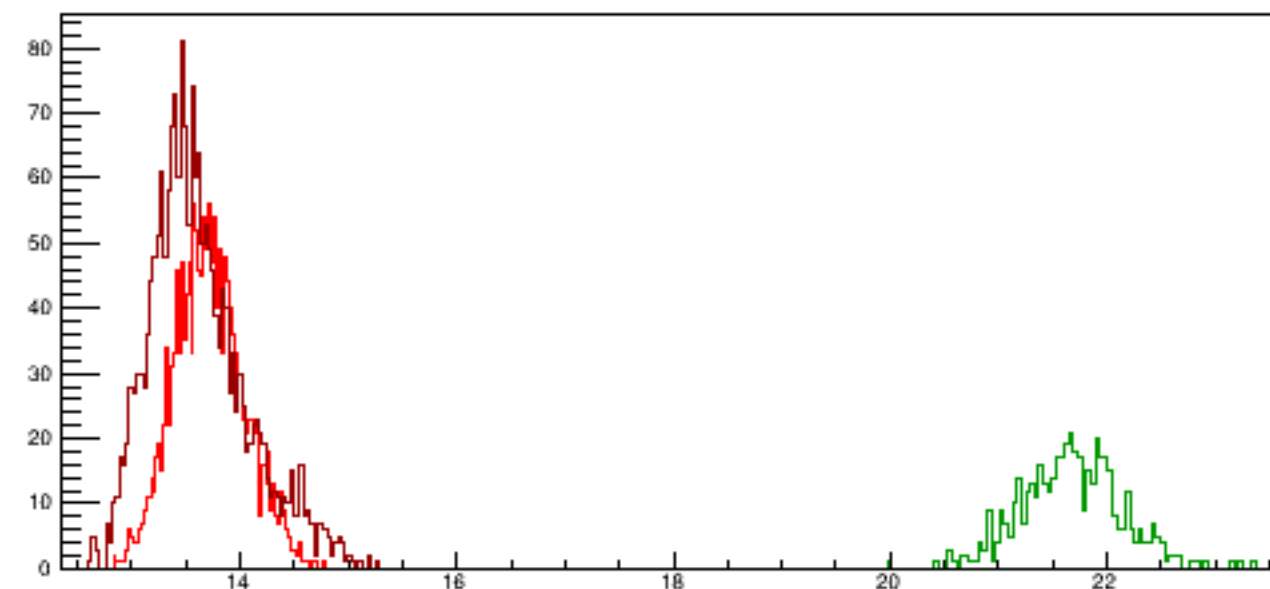
Std Dev: 0.4638 +/- 0.0150

Entries: 1996

Mean: 13.6188 +/- 0.0100

Std Dev: 0.4478 +/- 0.0071

Run 4591 quartetwise, Sums



Acc0/NAcc0:mpsCoda (mpsCoda>=563297 && mpsCoda<=597808 && beamState==1)

## Cycle 11, Asyms

Entries: 1750

Mean: 0.0139 +/- 0.0008

Std Dev: 0.0314 +/- 0.0005

Entries: 476

Mean: 0.0271 +/- 0.0019

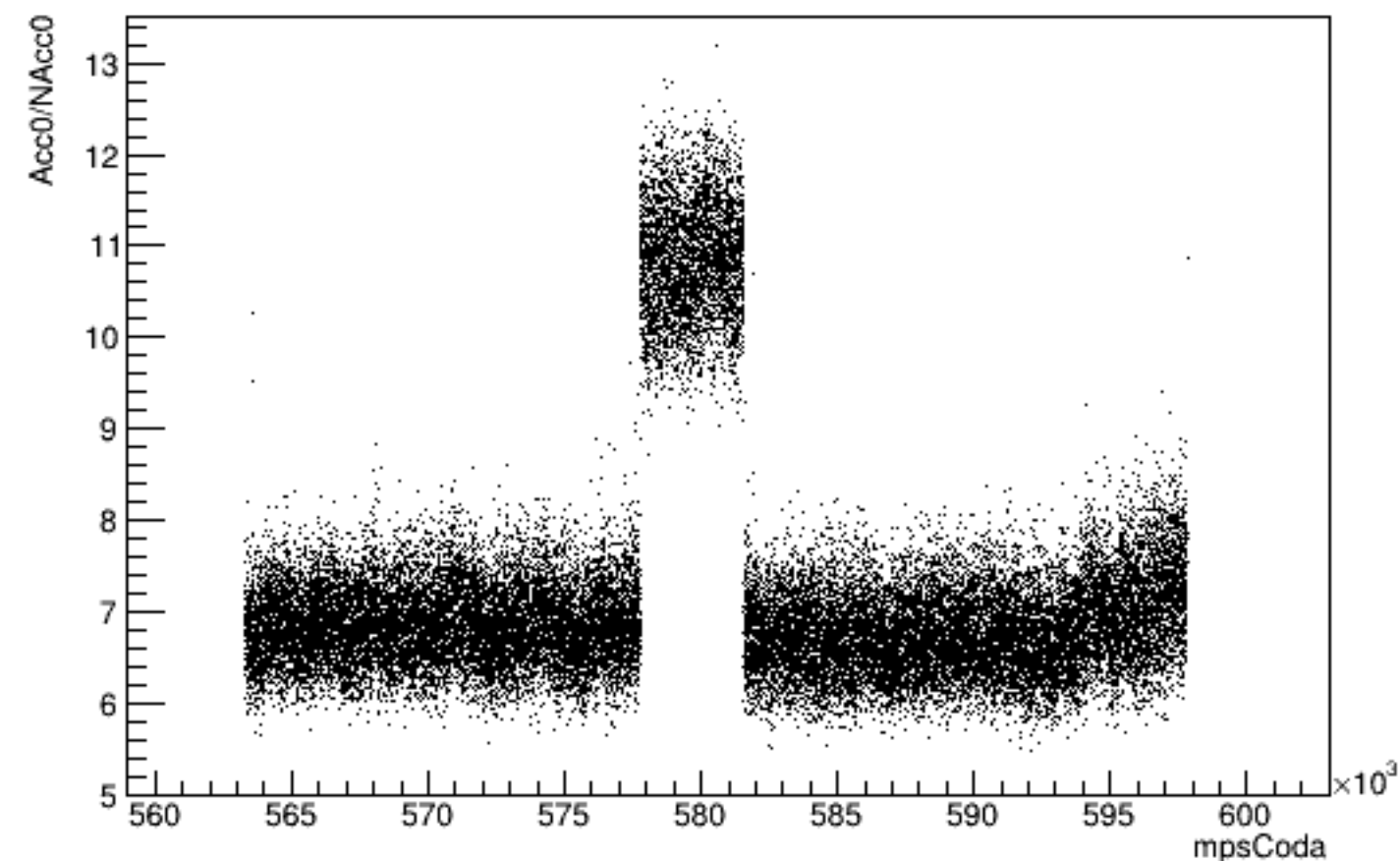
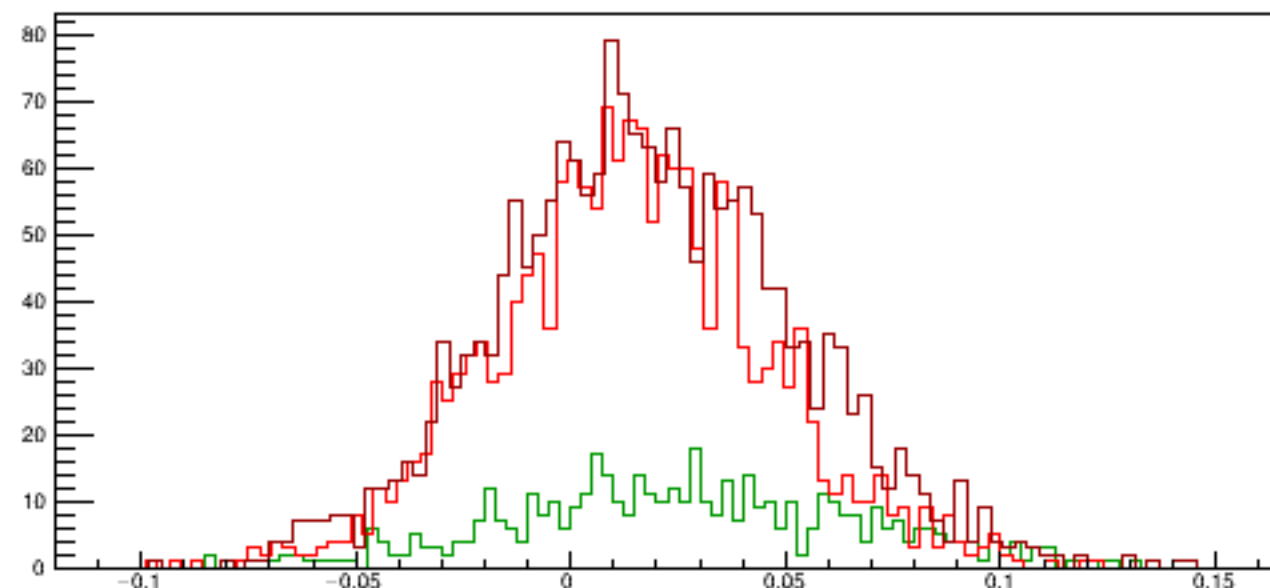
Std Dev: 0.0404 +/- 0.0013

Entries: 1996

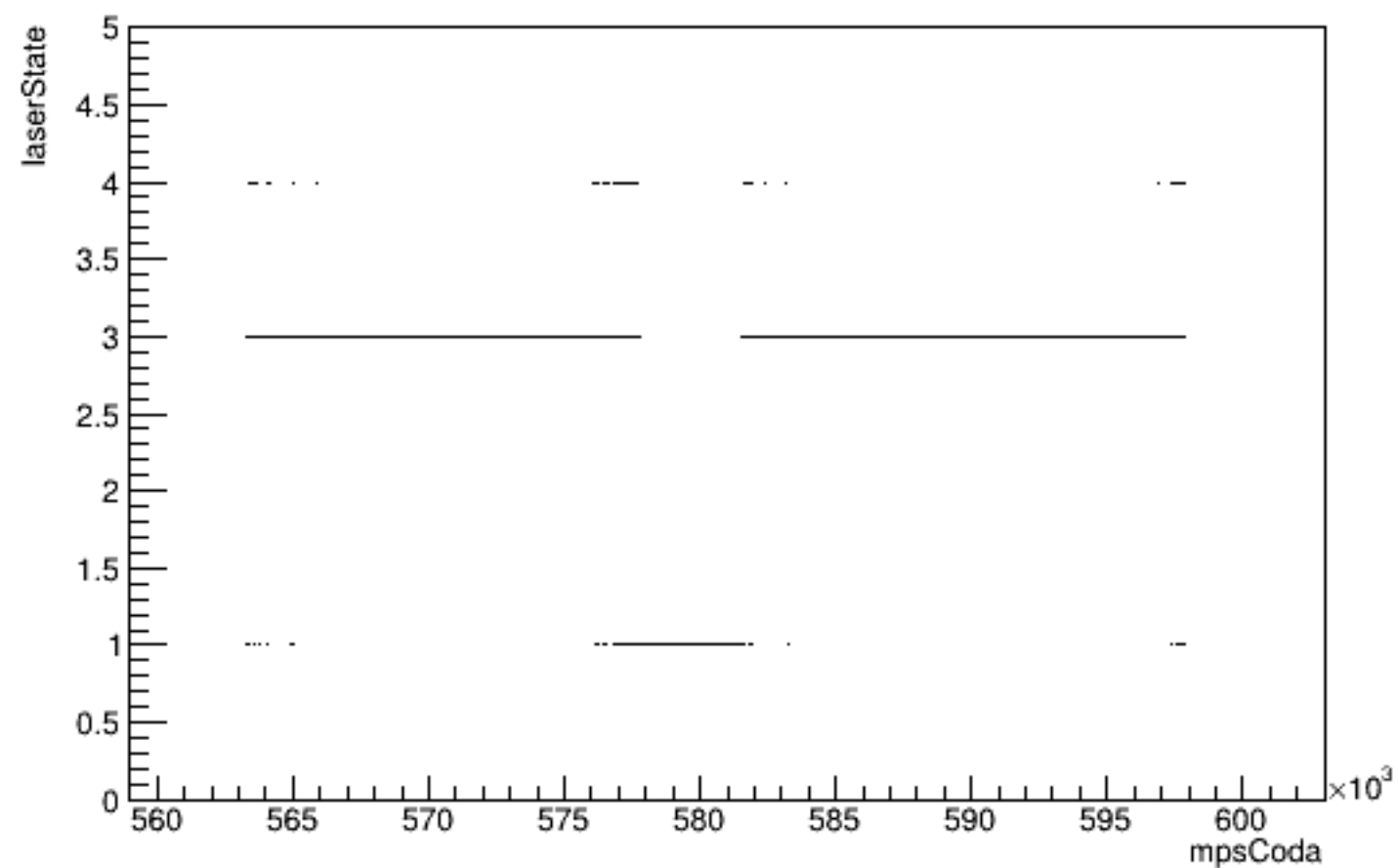
Mean: 0.0178 +/- 0.0008

Std Dev: 0.0345 +/- 0.0005

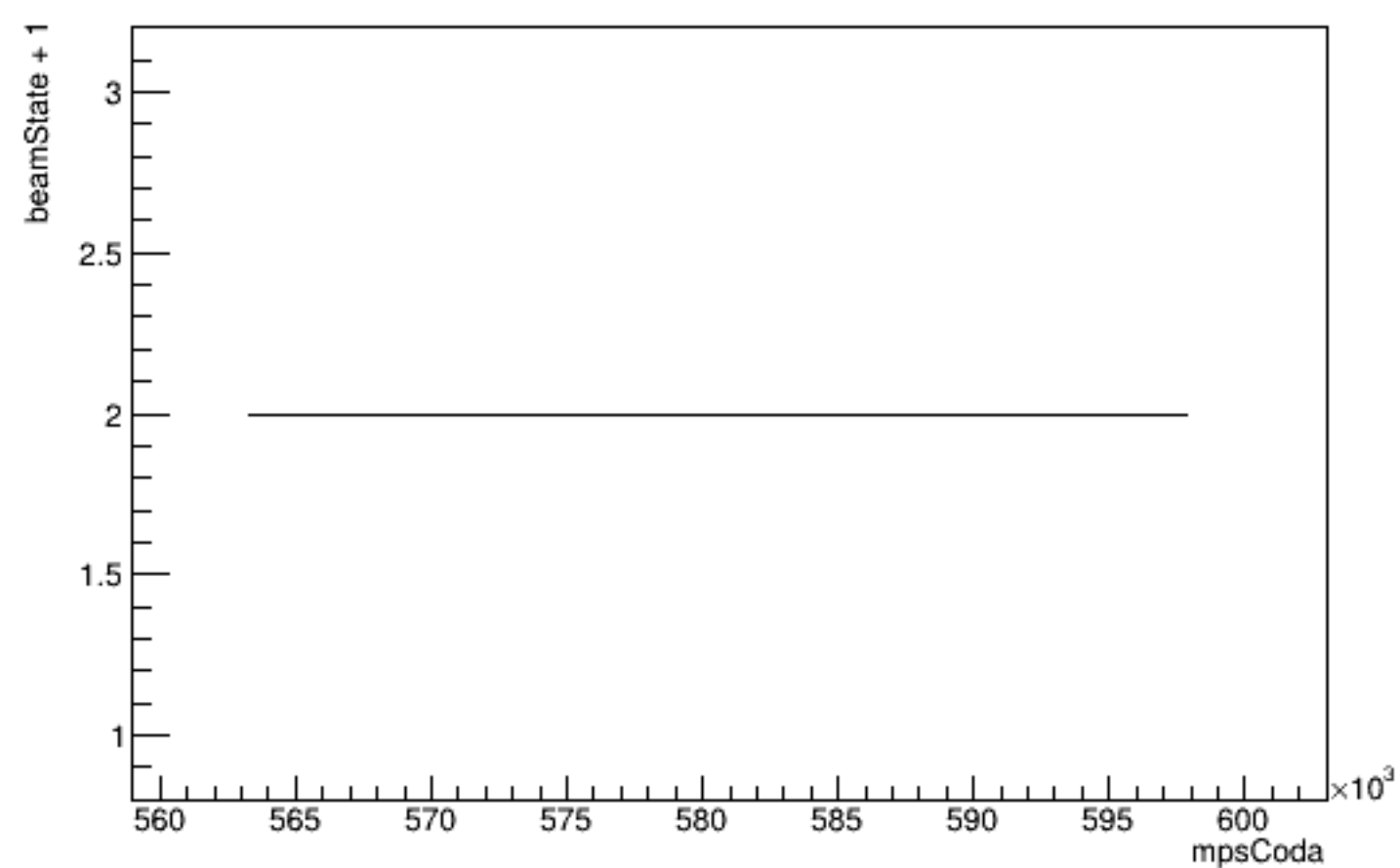
Run 4591 quartetwise, Asyms



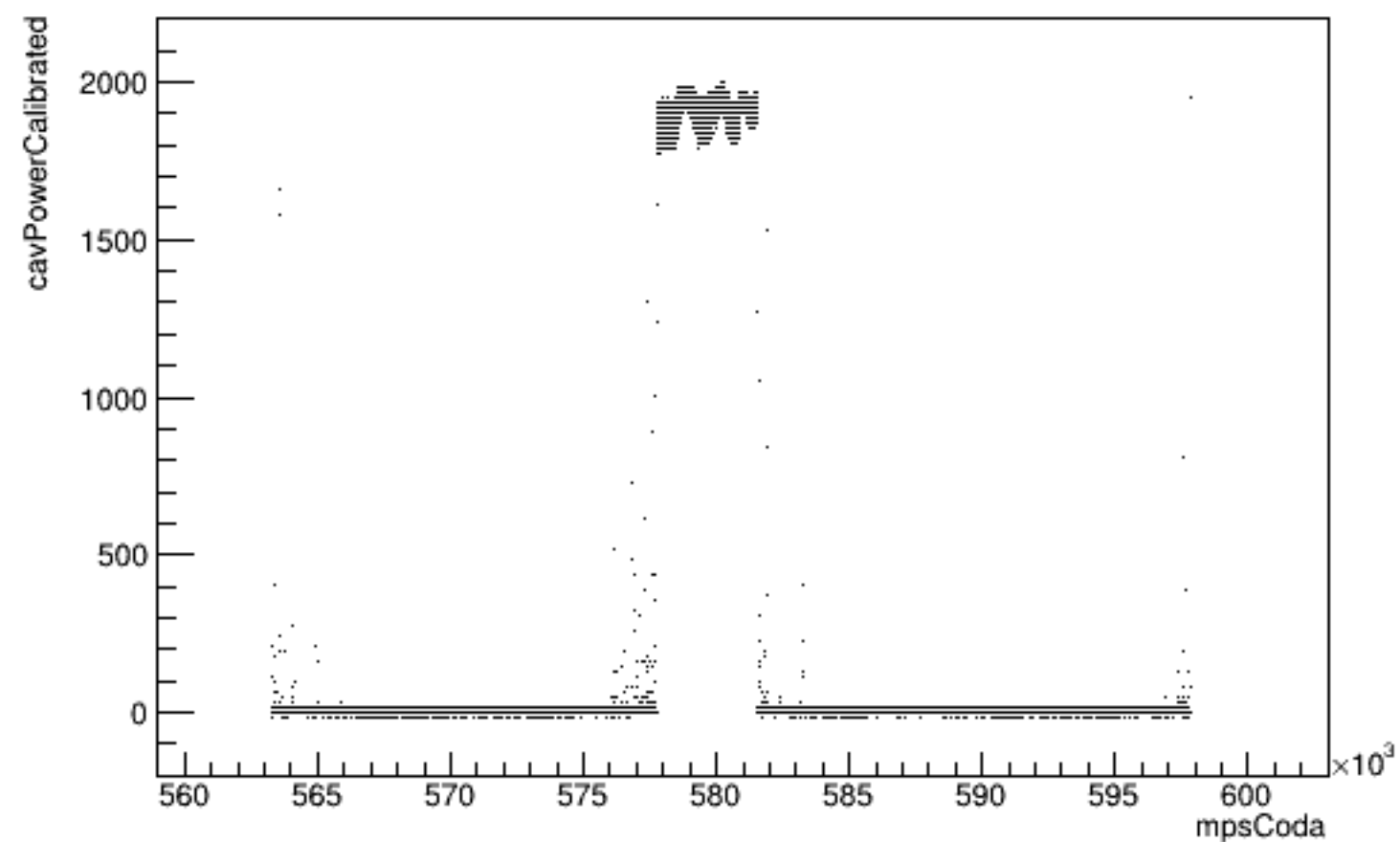
laserState:mpsCoda {mpsCoda&gt;=563297 &amp;&amp; mpsCoda&lt;=597808}



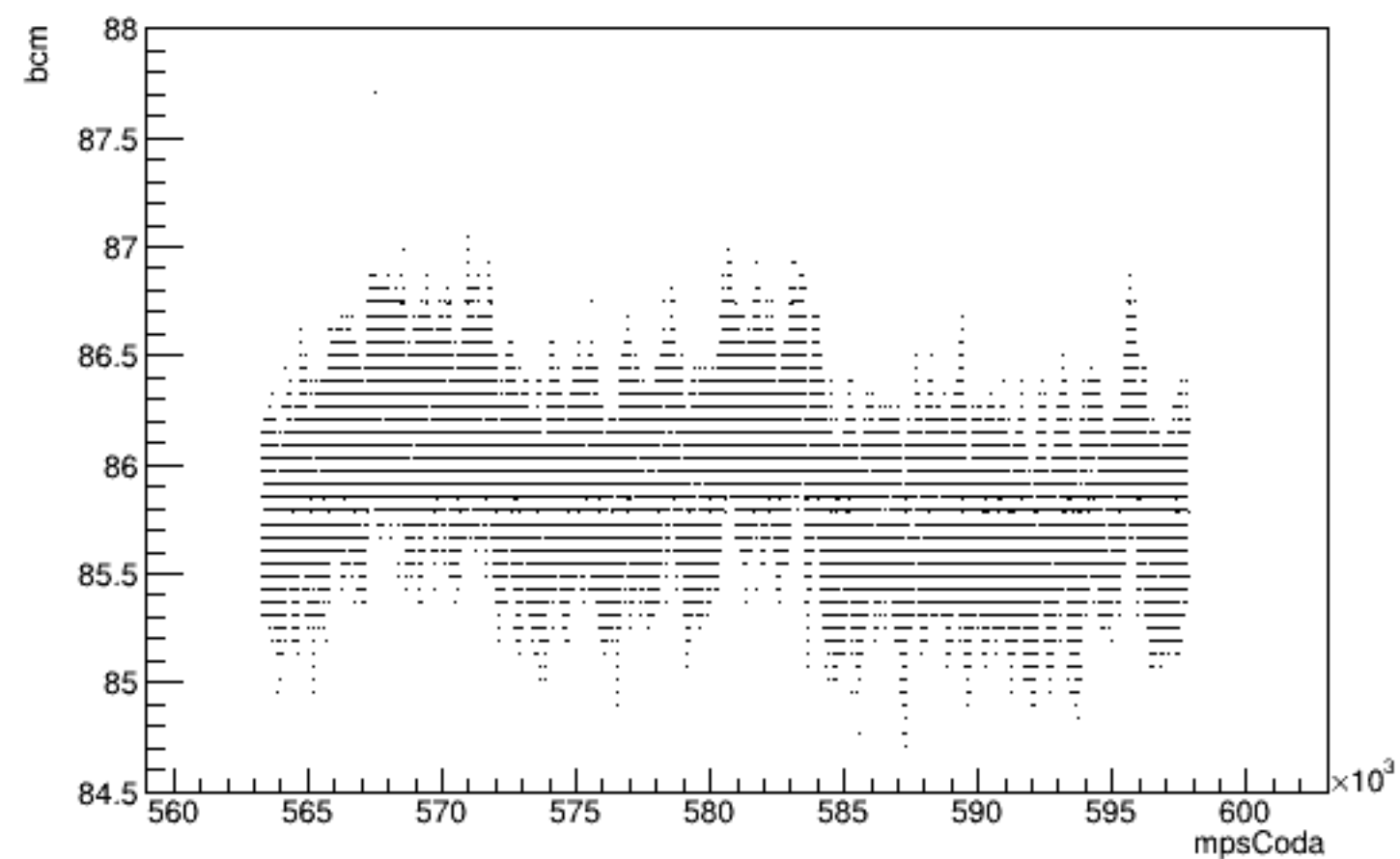
beamState + 1:mpsCoda {mpsCoda&gt;=563297 &amp;&amp; mpsCoda&lt;=597808}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=563297 &amp;&amp; mpsCoda&lt;=597808}



bcm:mpsCoda {mpsCoda&gt;=563297 &amp;&amp; mpsCoda&lt;=597808}



## Cycle 12, Diffs

Entries: 1996

Mean: 0.1422 +/- 0.0062

Std Dev: 0.2762 +/- 0.0044

Entries: 820

Mean: 0.4046 +/- 0.0135

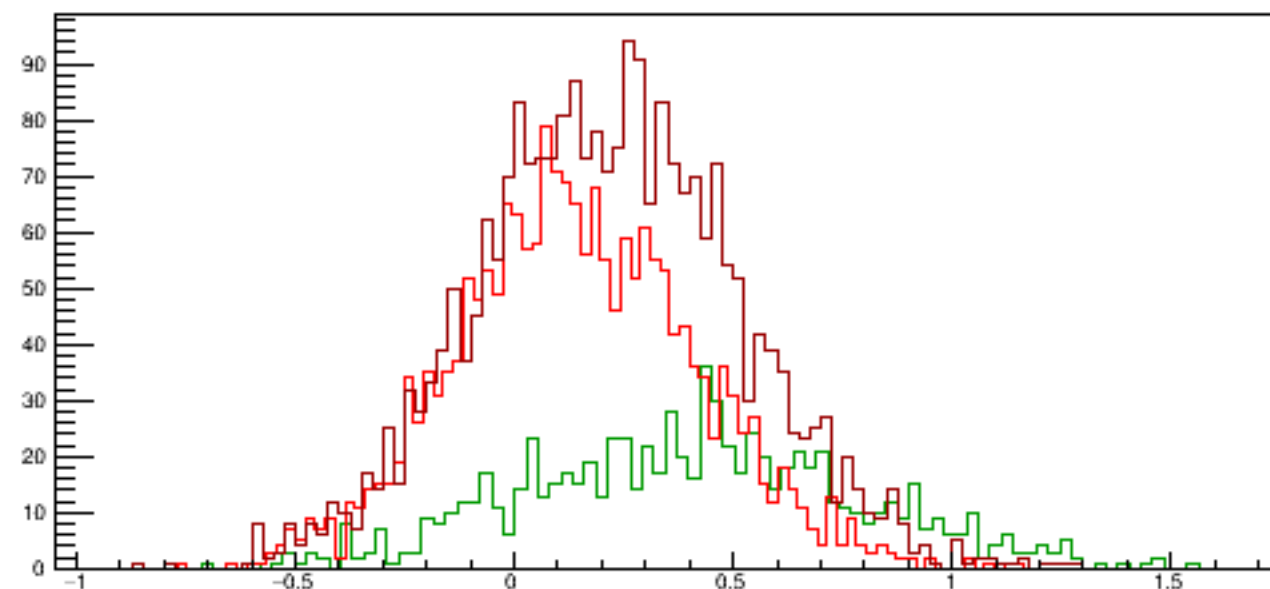
Std Dev: 0.3867 +/- 0.0095

Entries: 2496

Mean: 0.2134 +/- 0.0060

Std Dev: 0.3008 +/- 0.0043

Run 4591 quartetwise, Diffs



## Cycle 12, Sums

Entries: 1996

Mean: 13.6188 +/- 0.0100

Std Dev: 0.4478 +/- 0.0071

Entries: 820

Mean: 22.4528 +/- 0.0170

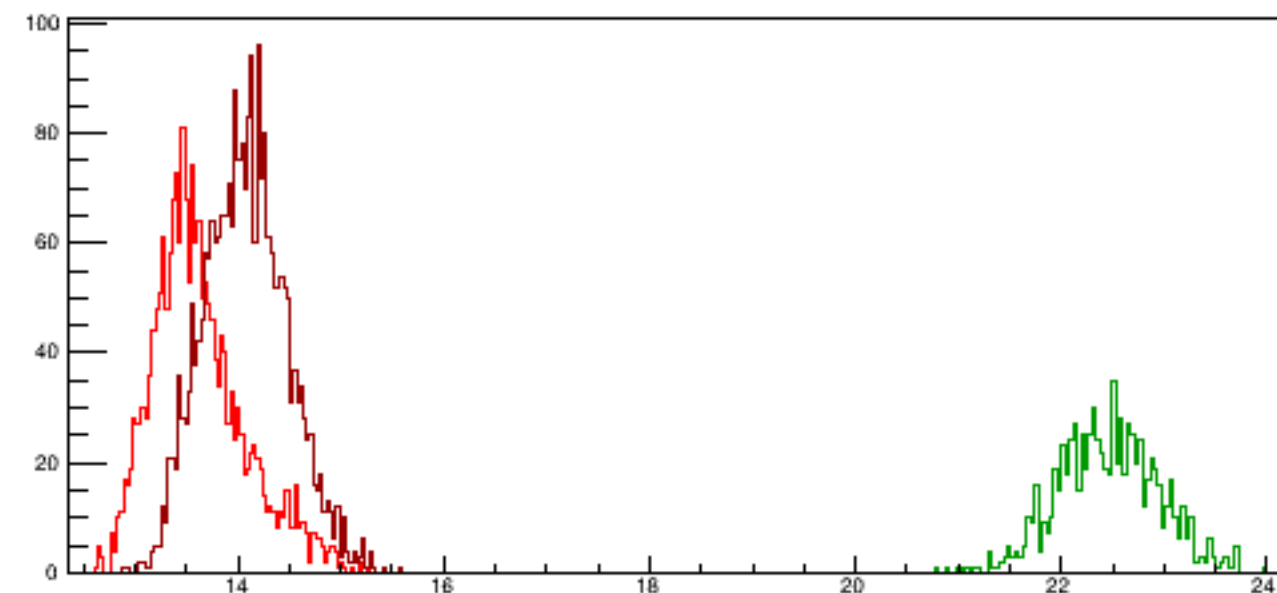
Std Dev: 0.4858 +/- 0.0120

Entries: 2496

Mean: 14.0807 +/- 0.0080

Std Dev: 0.4014 +/- 0.0057

Run 4591 quartetwise, Sums



Acc0/NAcc0:mpsCoda (mpsCoda>=581577 && mpsCoda<=625088 && beamState==1)

## Cycle 12, Asyms

Entries: 1996

Mean: 0.0165 +/- 0.0007

Std Dev: 0.0321 +/- 0.0005

Entries: 820

Mean: 0.0470 +/- 0.0016

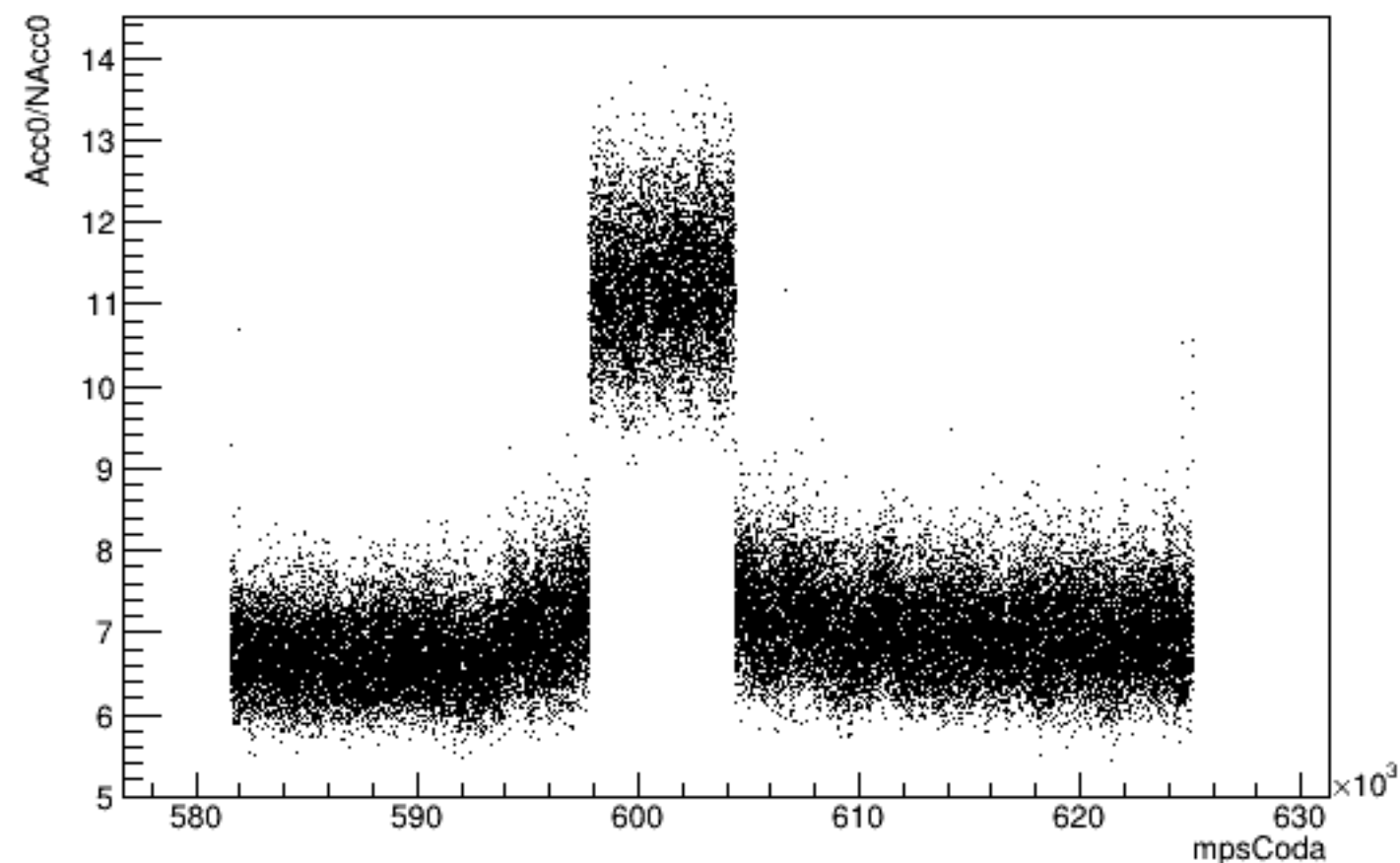
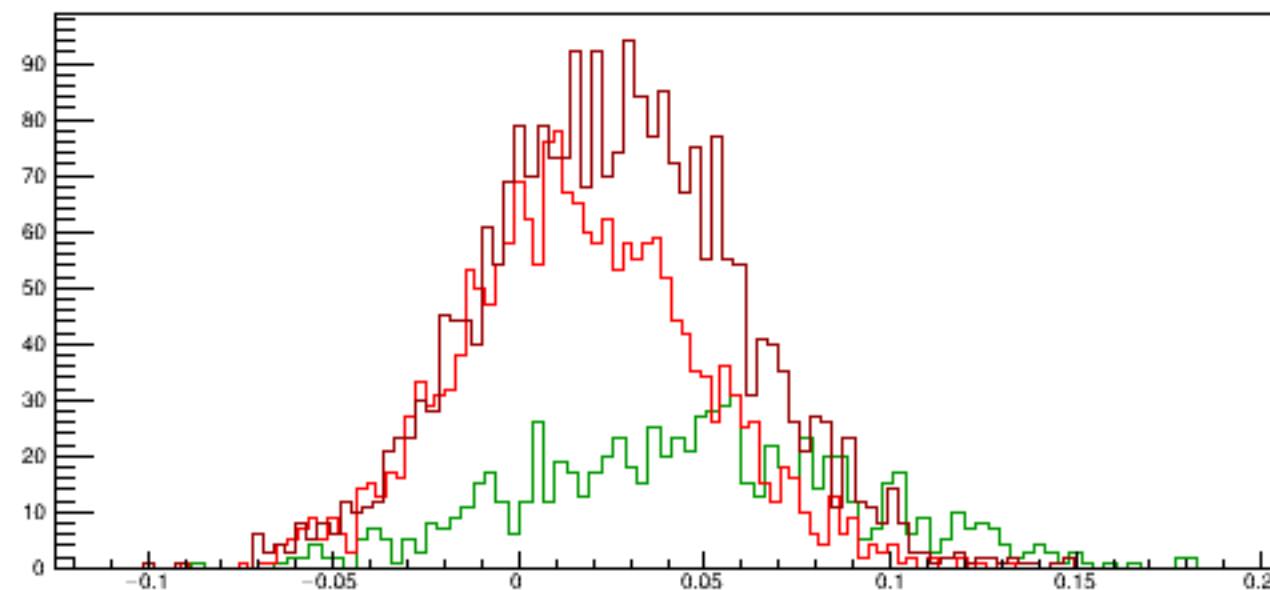
Std Dev: 0.0449 +/- 0.0011

Entries: 2496

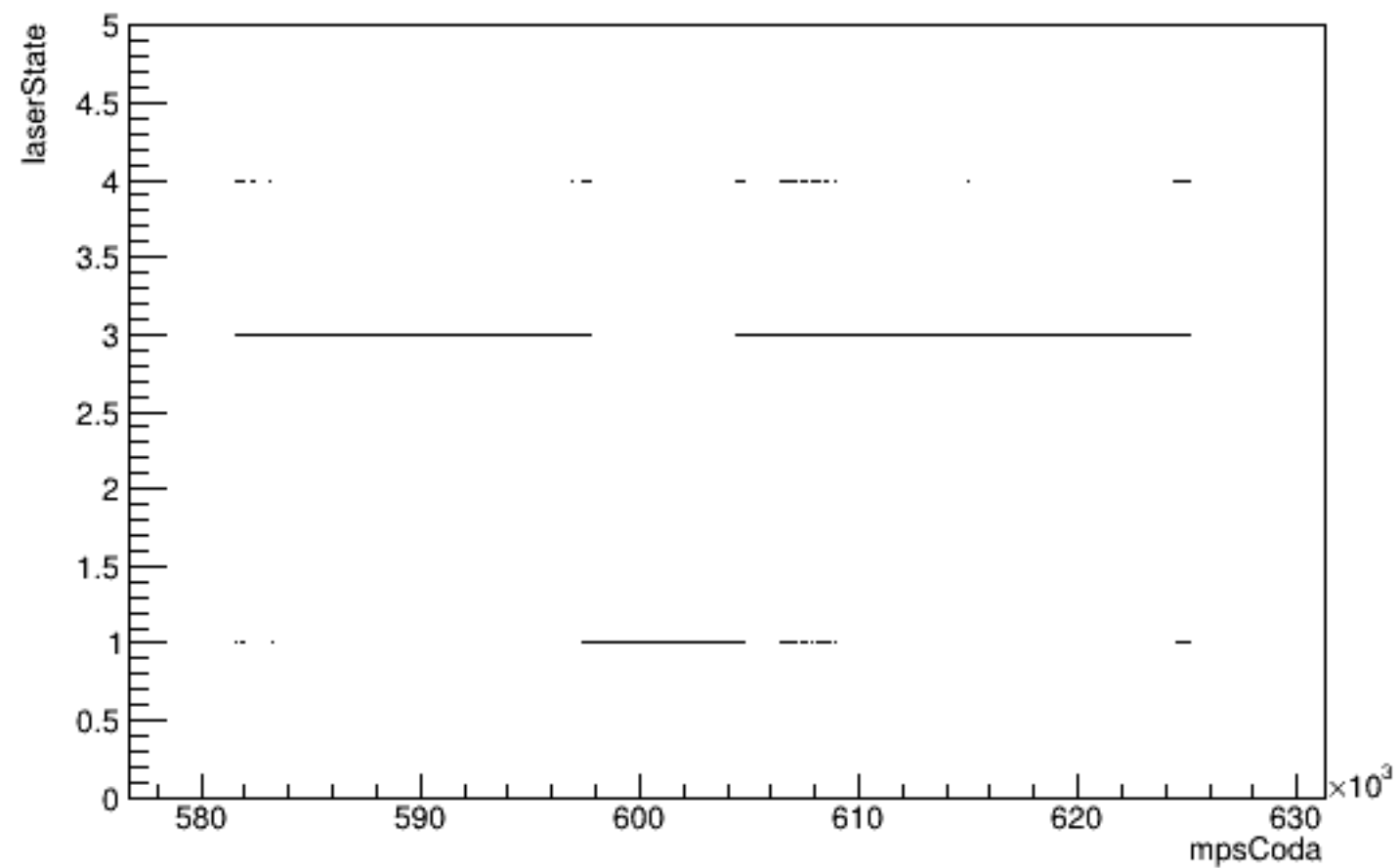
Mean: 0.0248 +/- 0.0007

Std Dev: 0.0350 +/- 0.0005

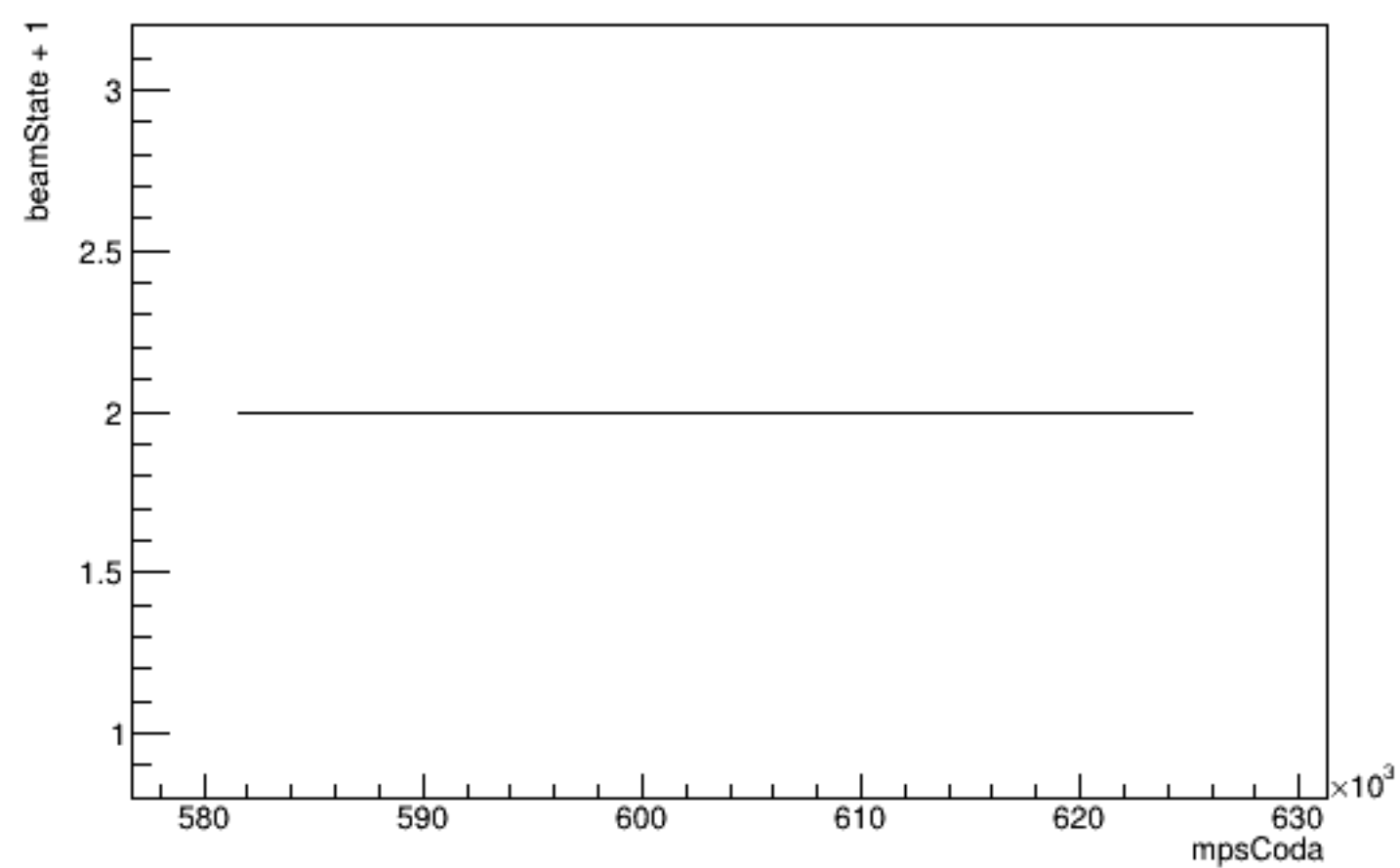
Run 4591 quartetwise, Asyms



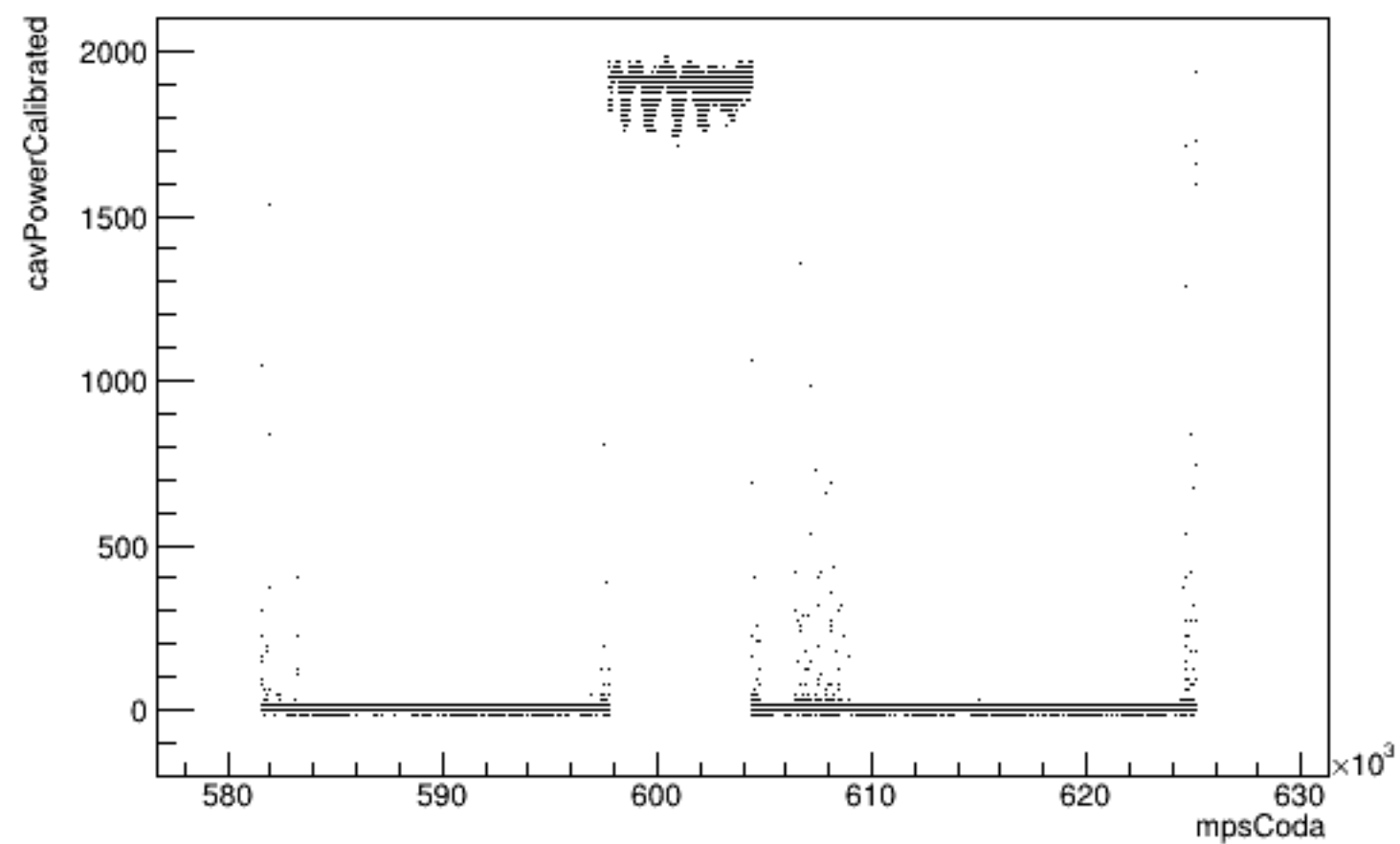
laserState:mpsCoda {mpsCoda&gt;=581577 &amp;&amp; mpsCoda&lt;=625088}



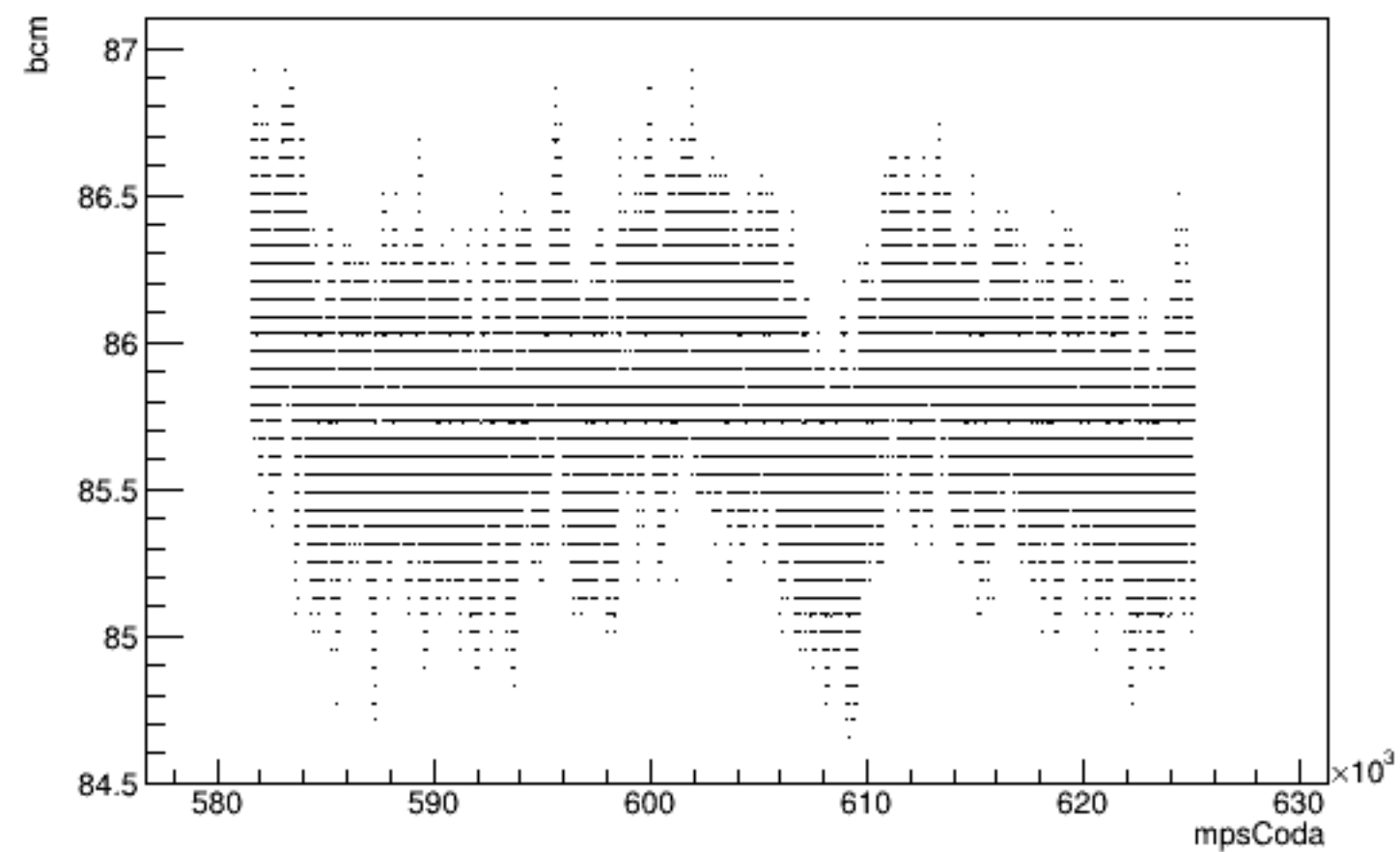
beamState + 1:mpsCoda {mpsCoda&gt;=581577 &amp;&amp; mpsCoda&lt;=625088}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=581577 &amp;&amp; mpsCoda&lt;=625088}



bcm:mpsCoda {mpsCoda&gt;=581577 &amp;&amp; mpsCoda&lt;=625088}



## Cycle 13, Diffs

Entries: 2496

Mean: 0.2134 +/- 0.0060

Std Dev: 0.3008 +/- 0.0043

Entries: 1363

Mean: 0.4083 +/- 0.0103

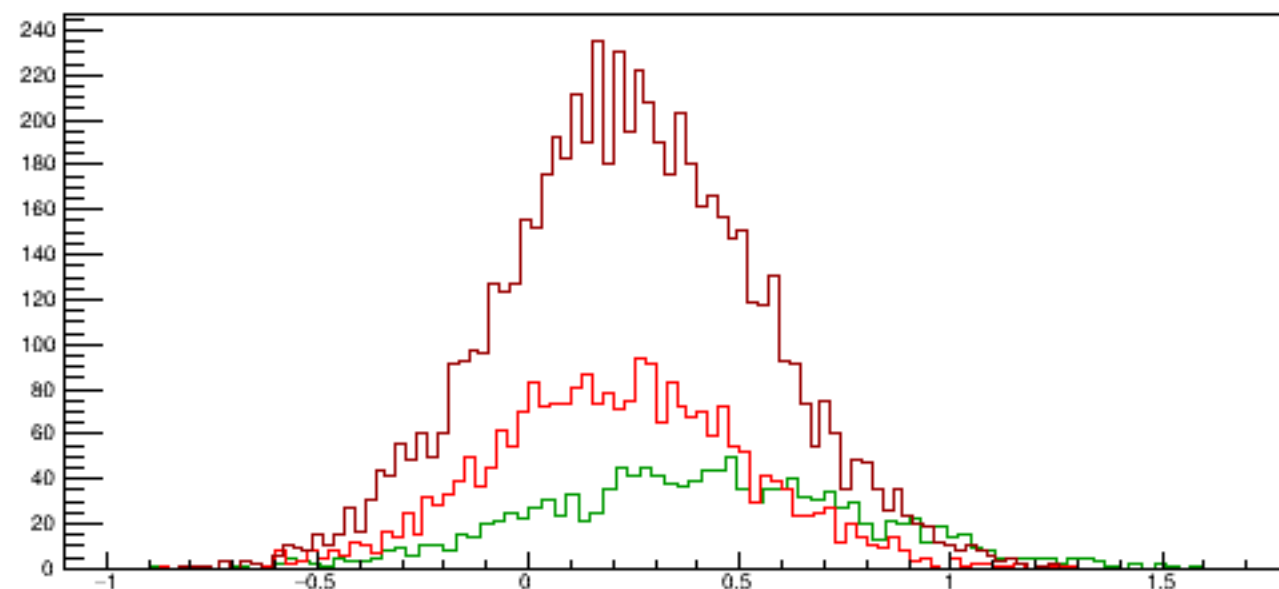
Std Dev: 0.3802 +/- 0.0073

Entries: 6511

Mean: 0.2389 +/- 0.0038

Std Dev: 0.3087 +/- 0.0027

Run 4591 quartetwise, Diffs



## Cycle 13, Sums

Entries: 2496

Mean: 14.0807 +/- 0.0080

Std Dev: 0.4014 +/- 0.0057

Entries: 1363

Mean: 22.2811 +/- 0.0158

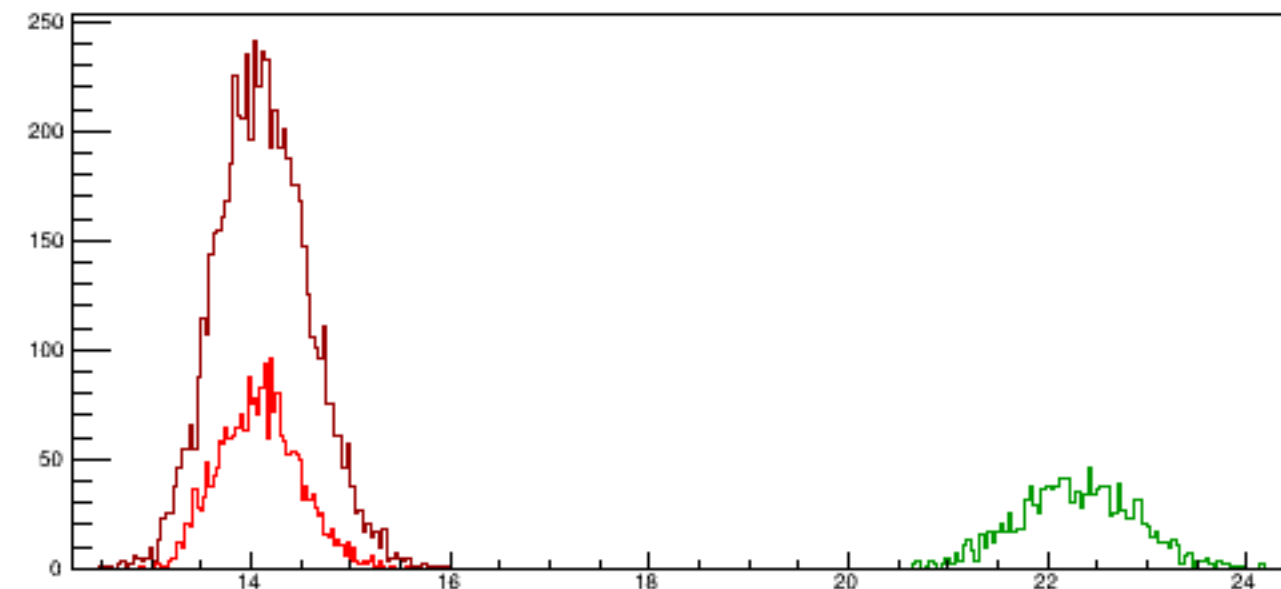
Std Dev: 0.5846 +/- 0.0112

Entries: 6511

Mean: 14.1197 +/- 0.0058

Std Dev: 0.4670 +/- 0.0041

Run 4591 quartetwise, Sums



Acc0/NAcc0:mpsCoda (mpsCoda>=604377 && mpsCoda<=697552 && beamState==1)

## Cycle 13, Asyms

Entries: 2496

Mean: 0.0261 +/- 0.0007

Std Dev: 0.0368 +/- 0.0005

Entries: 1363

Mean: 0.0498 +/- 0.0013

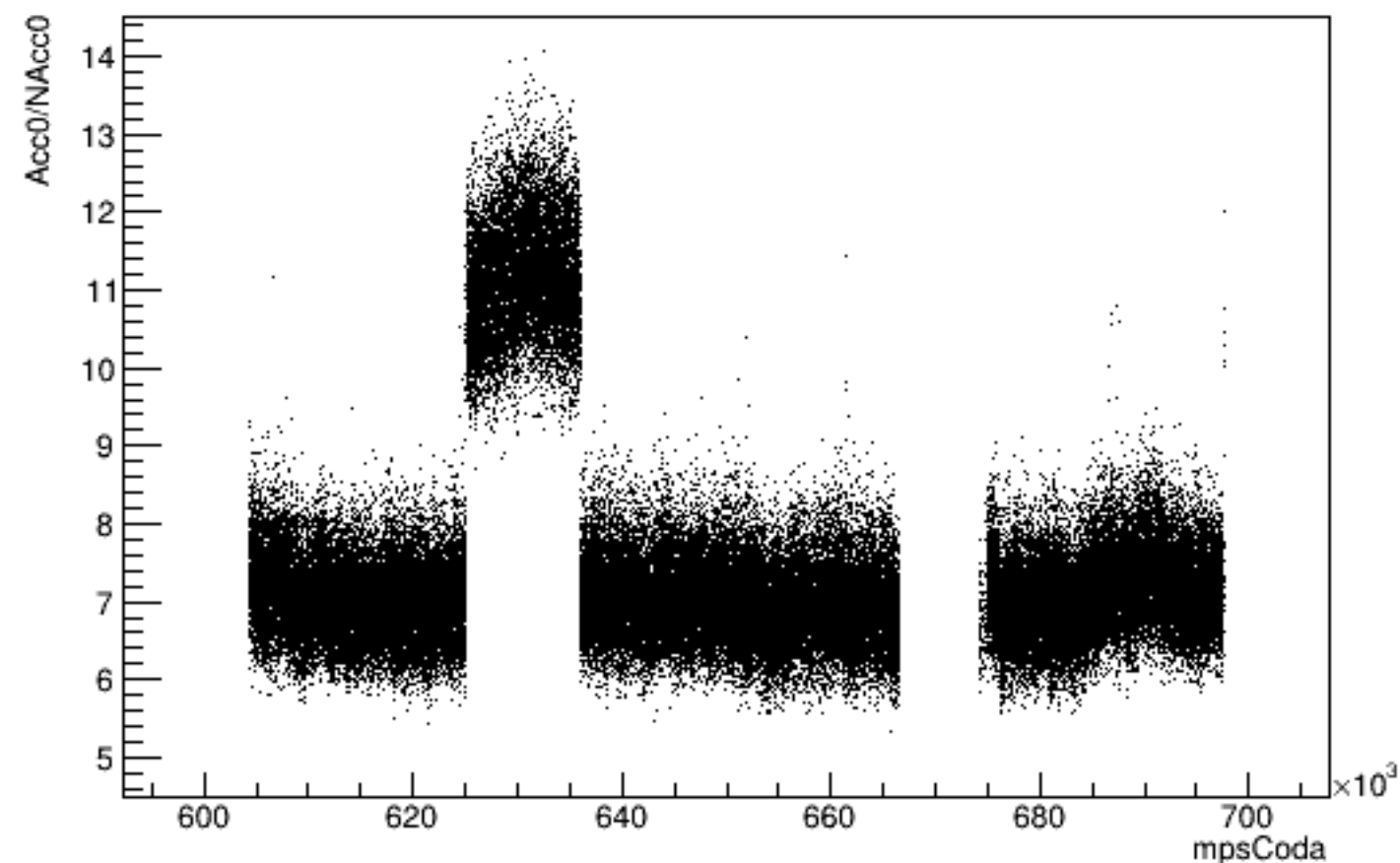
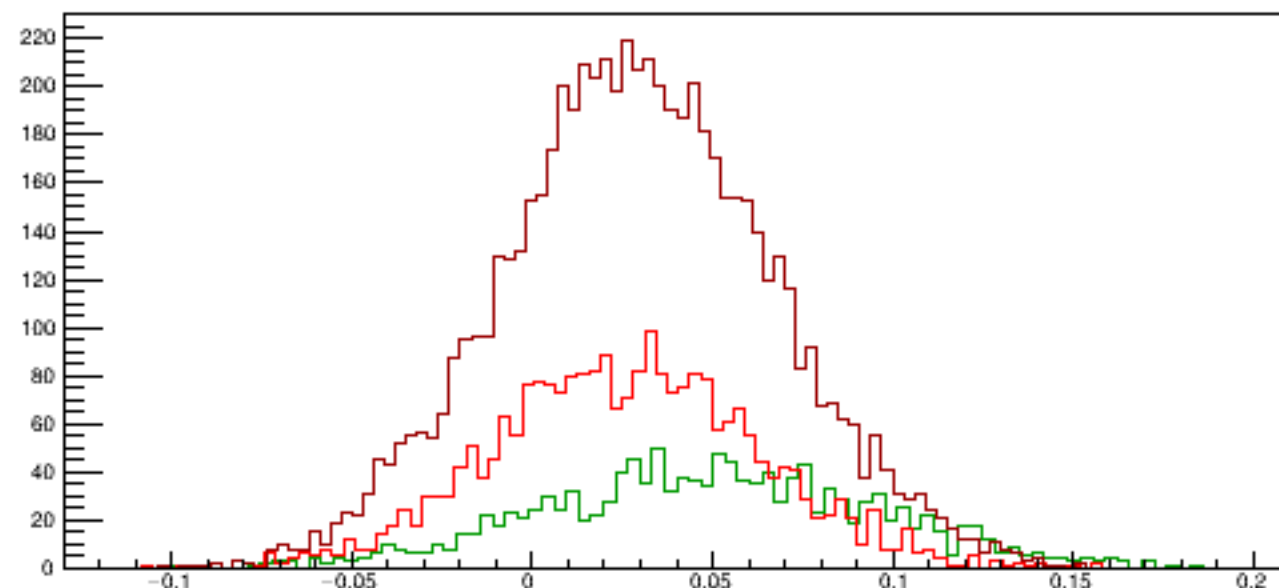
Std Dev: 0.0462 +/- 0.0009

Entries: 6511

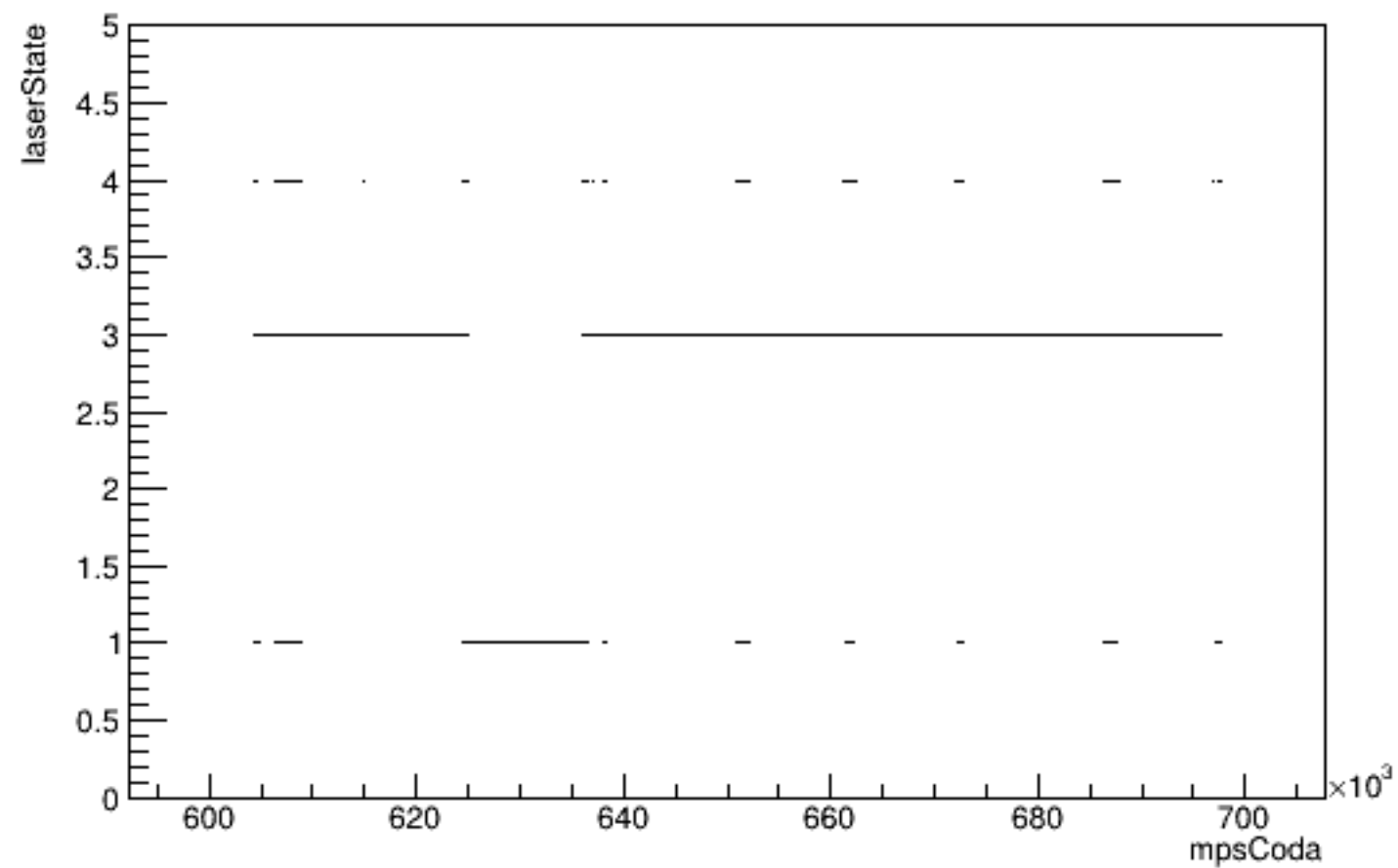
Mean: 0.0292 +/- 0.0005

Std Dev: 0.0377 +/- 0.0003

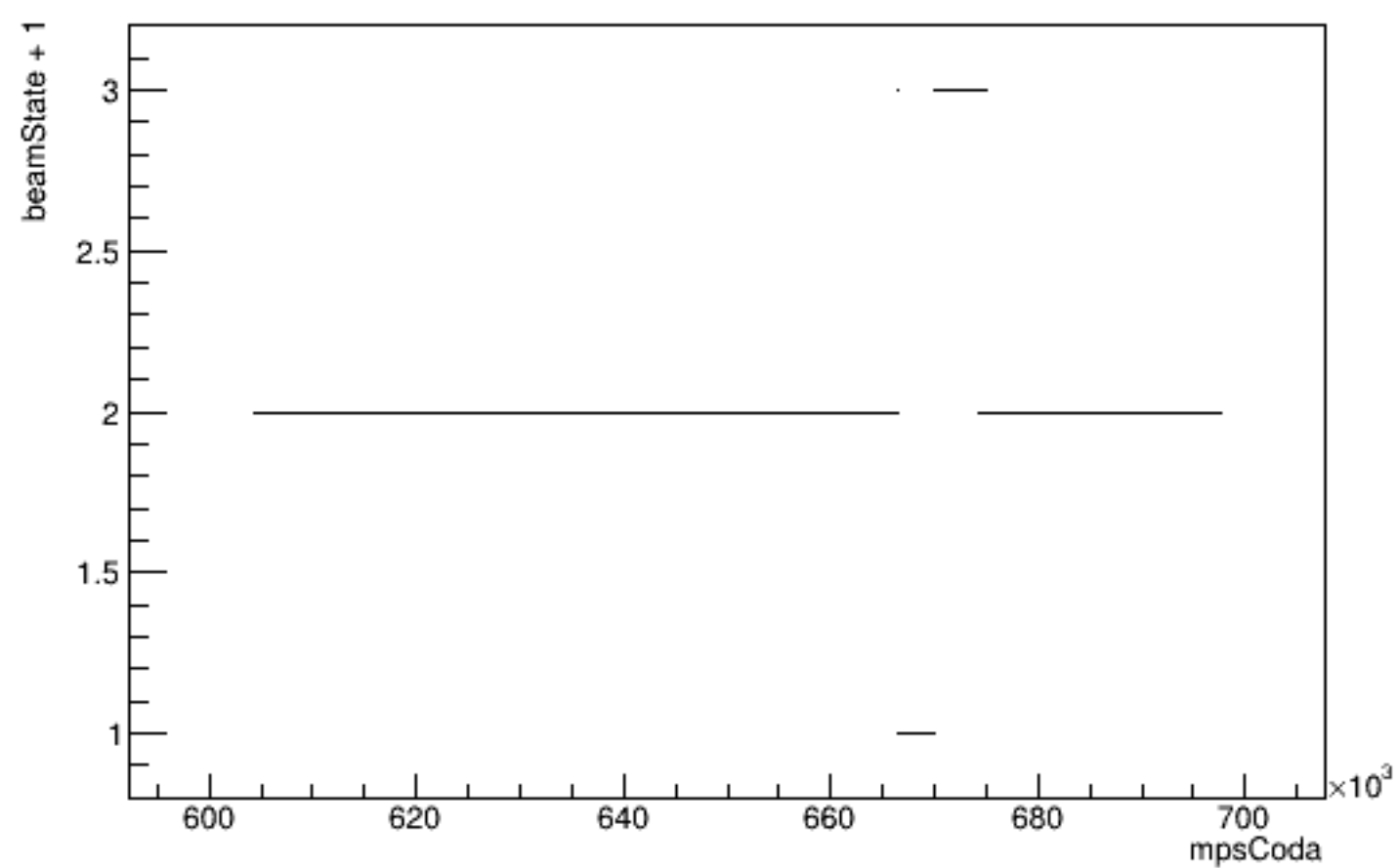
Run 4591 quartetwise, Asyms



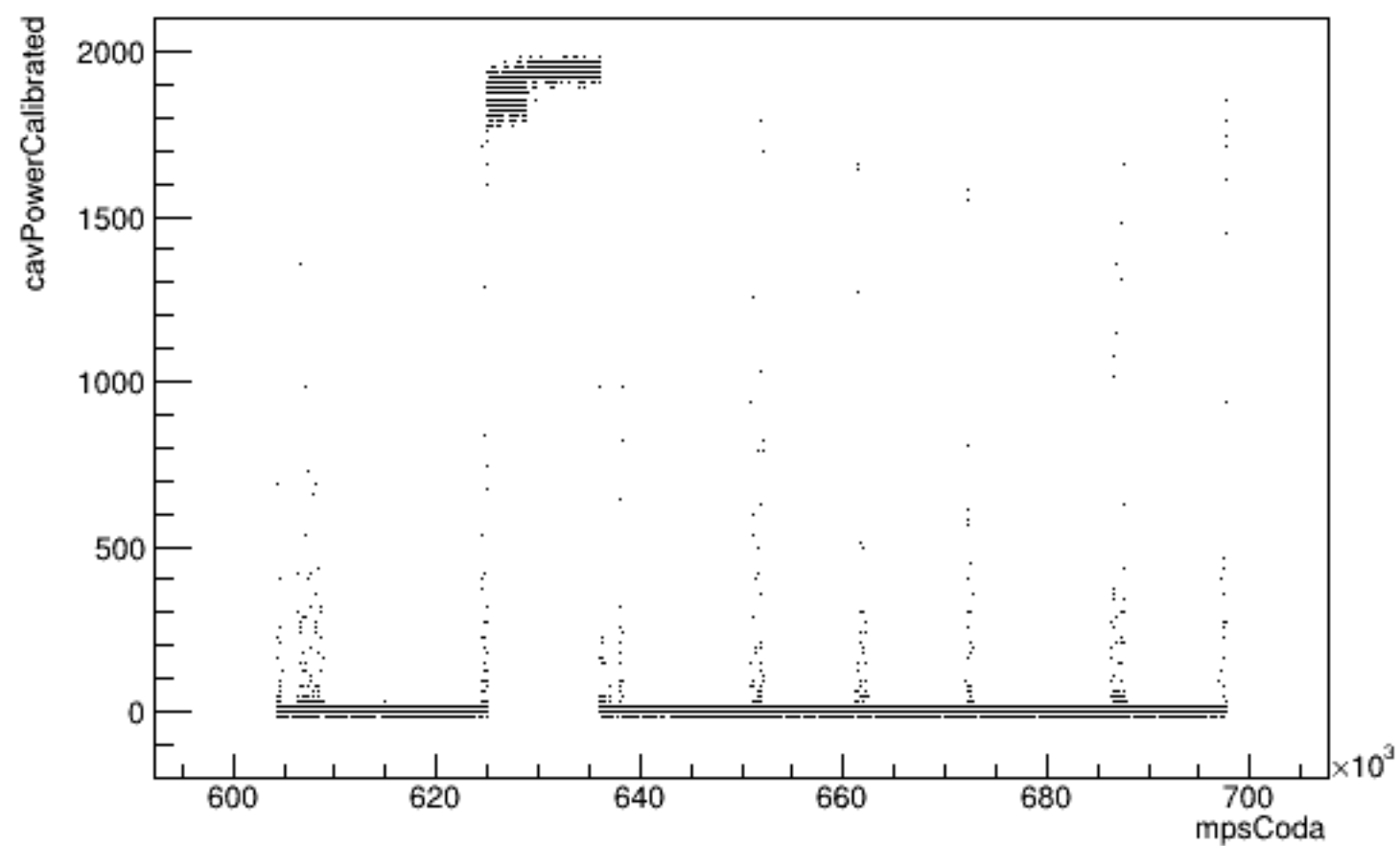
laserState:mpsCoda {mpsCoda&gt;=604377 &amp;&amp; mpsCoda&lt;=697552}



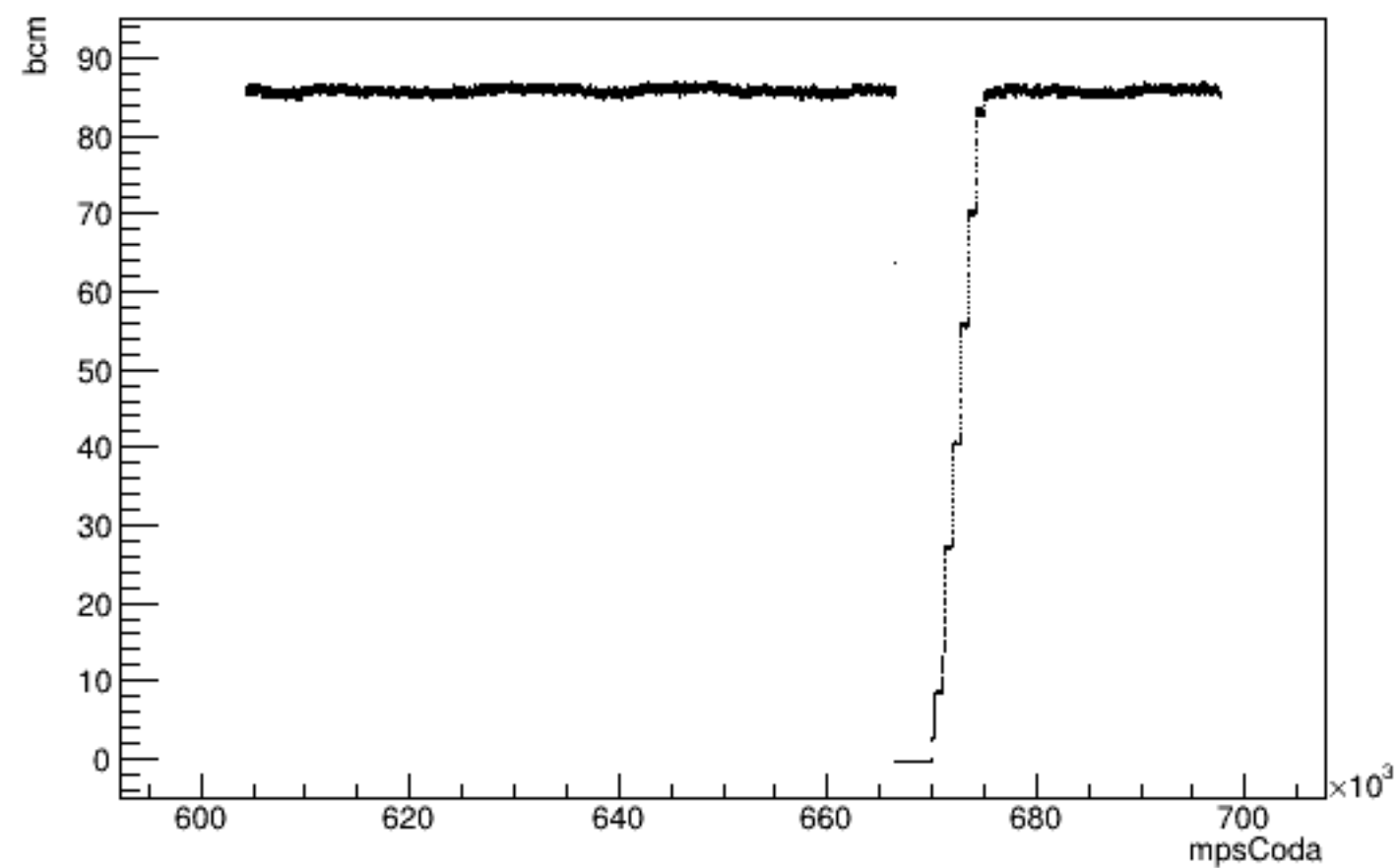
beamState + 1:mpsCoda {mpsCoda&gt;=604377 &amp;&amp; mpsCoda&lt;=697552}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=604377 &amp;&amp; mpsCoda&lt;=697552}



bcm:mpsCoda {mpsCoda&gt;=604377 &amp;&amp; mpsCoda&lt;=697552}



## Cycle 14, Diffs

Entries: 5277

Mean: 0.1579 +/- 0.0038

Std Dev: 0.2766 +/- 0.0027

Entries: 4649

Mean: 0.3163 +/- 0.0053

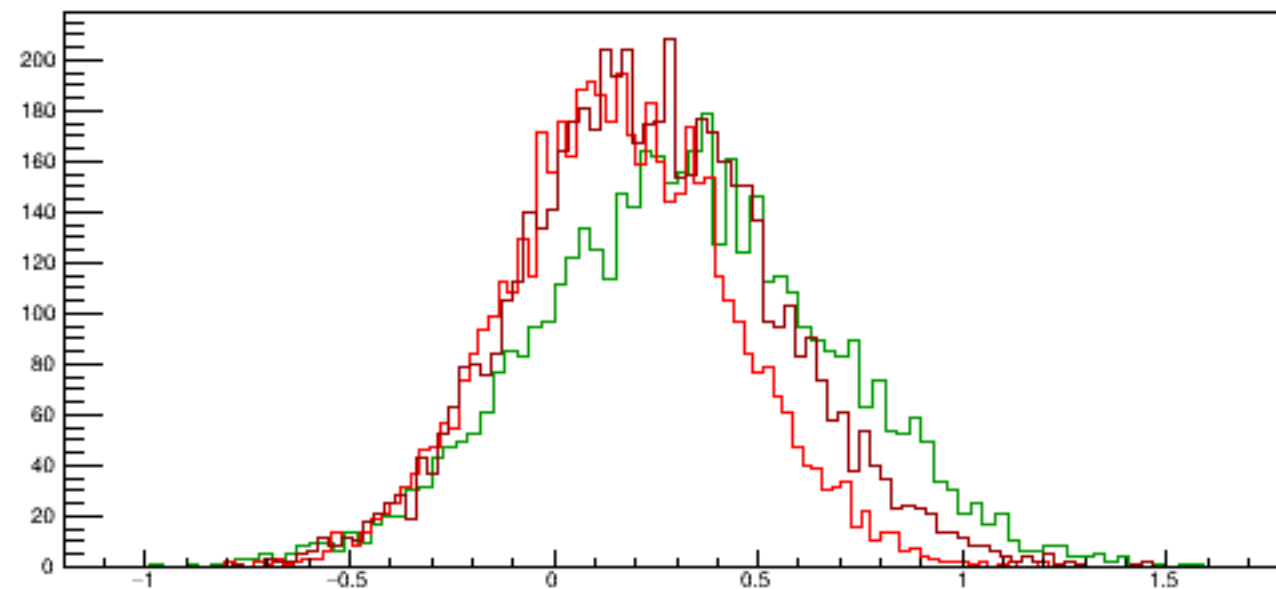
Std Dev: 0.3624 +/- 0.0038

Entries: 5592

Mean: 0.2312 +/- 0.0042

Std Dev: 0.3128 +/- 0.0030

Run 4591 quartetwise, Diffs



## Cycle 14, Sums

Entries: 5277

Mean: 13.6721 +/- 0.0080

Std Dev: 0.5814 +/- 0.0057

Entries: 4649

Mean: 22.0498 +/- 0.0091

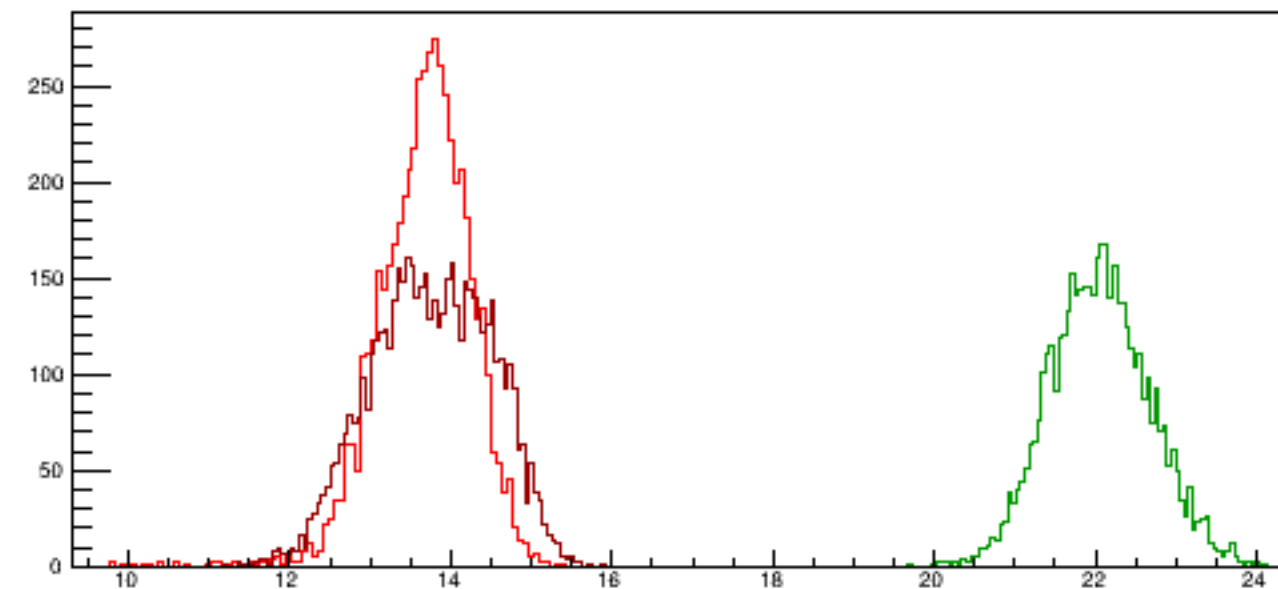
Std Dev: 0.6235 +/- 0.0065

Entries: 5592

Mean: 13.7540 +/- 0.0098

Std Dev: 0.7344 +/- 0.0069

Run 4591 quartetwise, Sums



Acc0/NAcc0:mpsCoda (mpsCoda>=716785 && mpsCoda<=842576 && beamState==1)

## Cycle 14, Asyms

Entries: 5277

Mean: 0.0189 +/- 0.0005

Std Dev: 0.0332 +/- 0.0003

Entries: 4649

Mean: 0.0379 +/- 0.0006

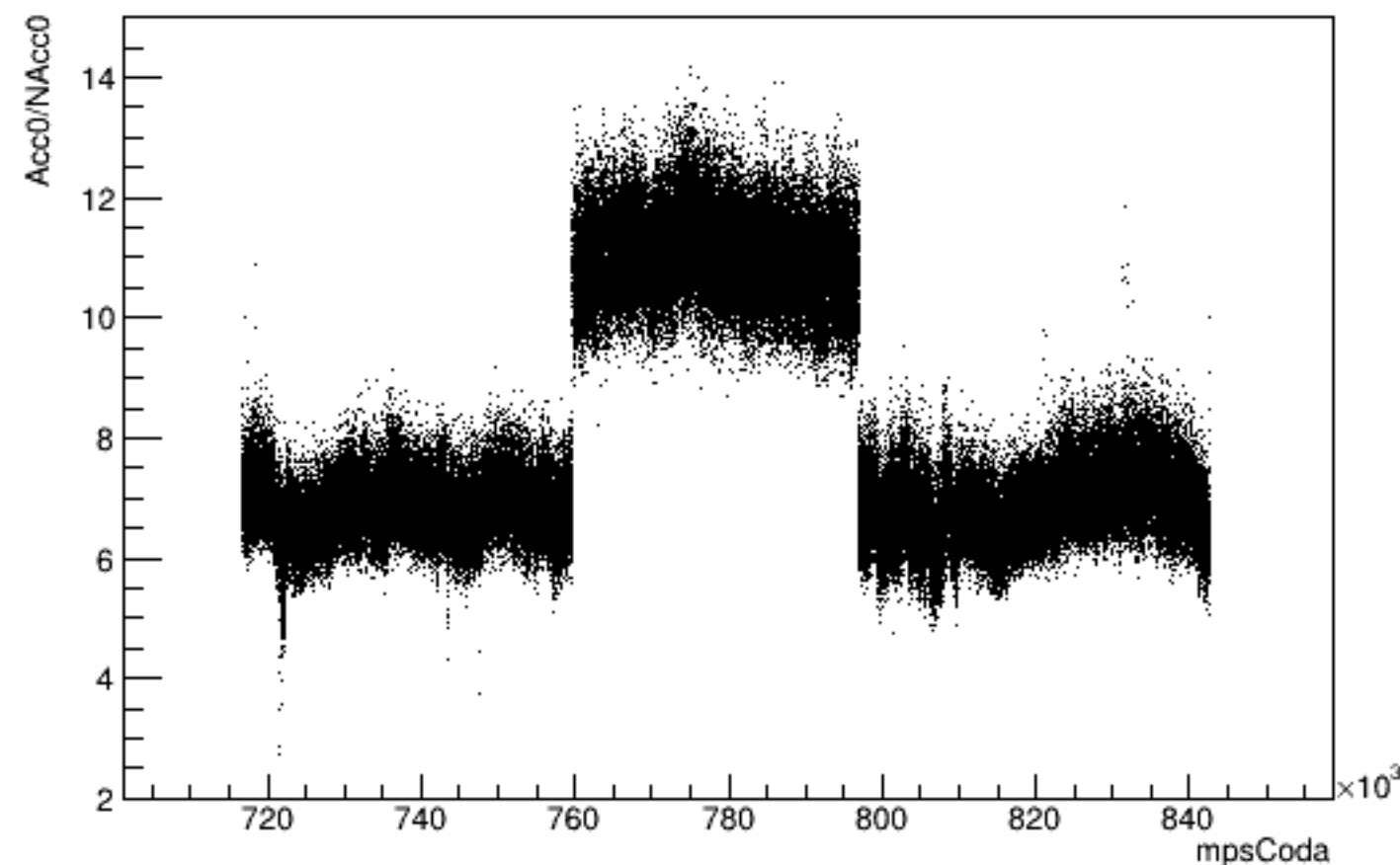
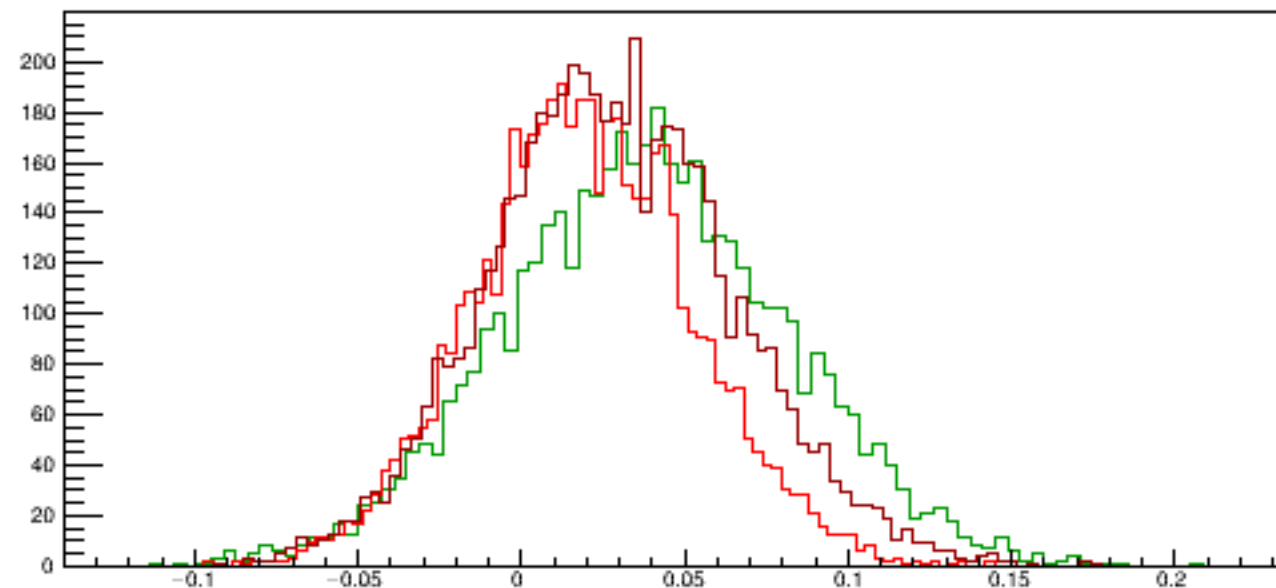
Std Dev: 0.0435 +/- 0.0005

Entries: 5592

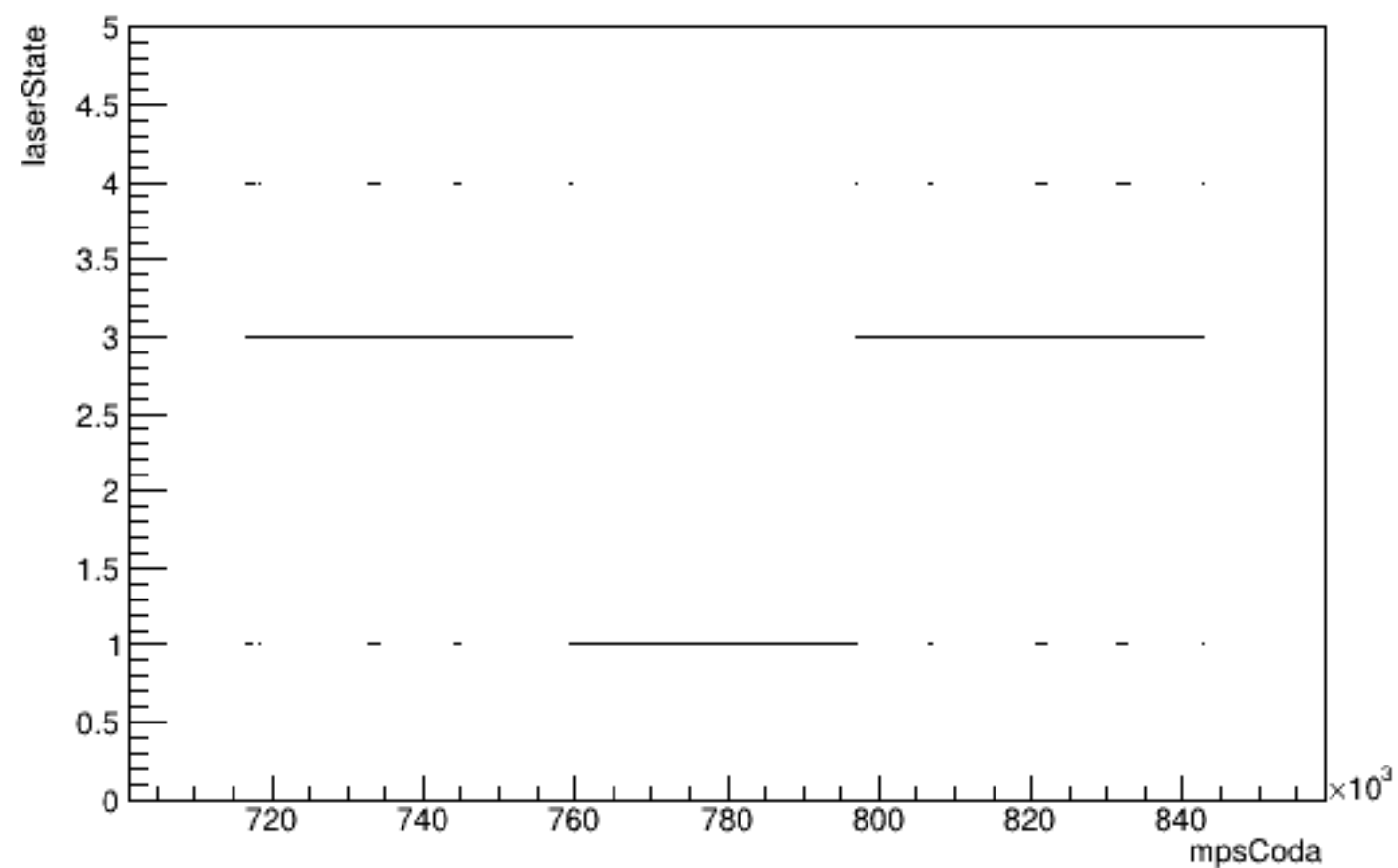
Mean: 0.0277 +/- 0.0005

Std Dev: 0.0375 +/- 0.0004

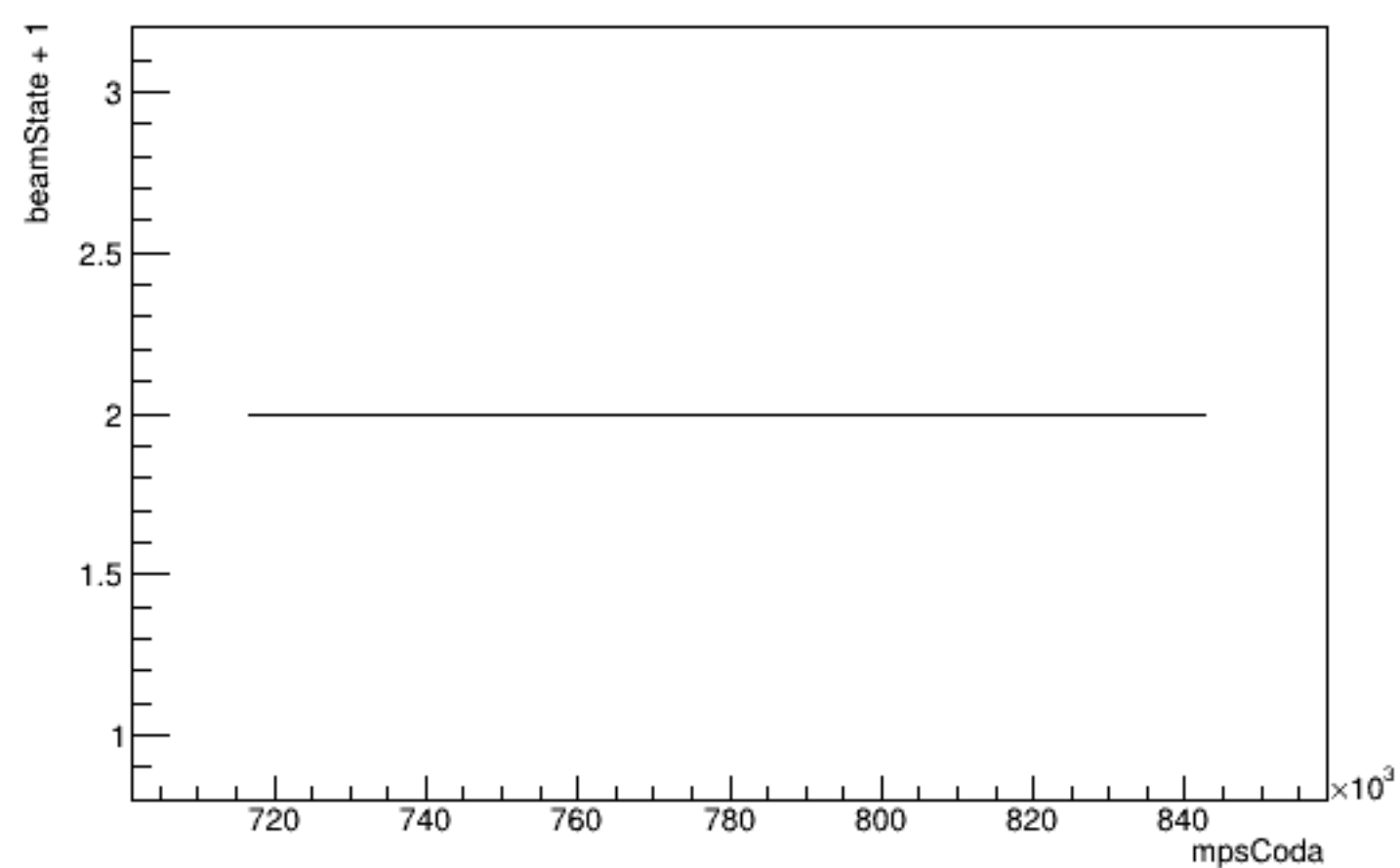
Run 4591 quartetwise, Asyms



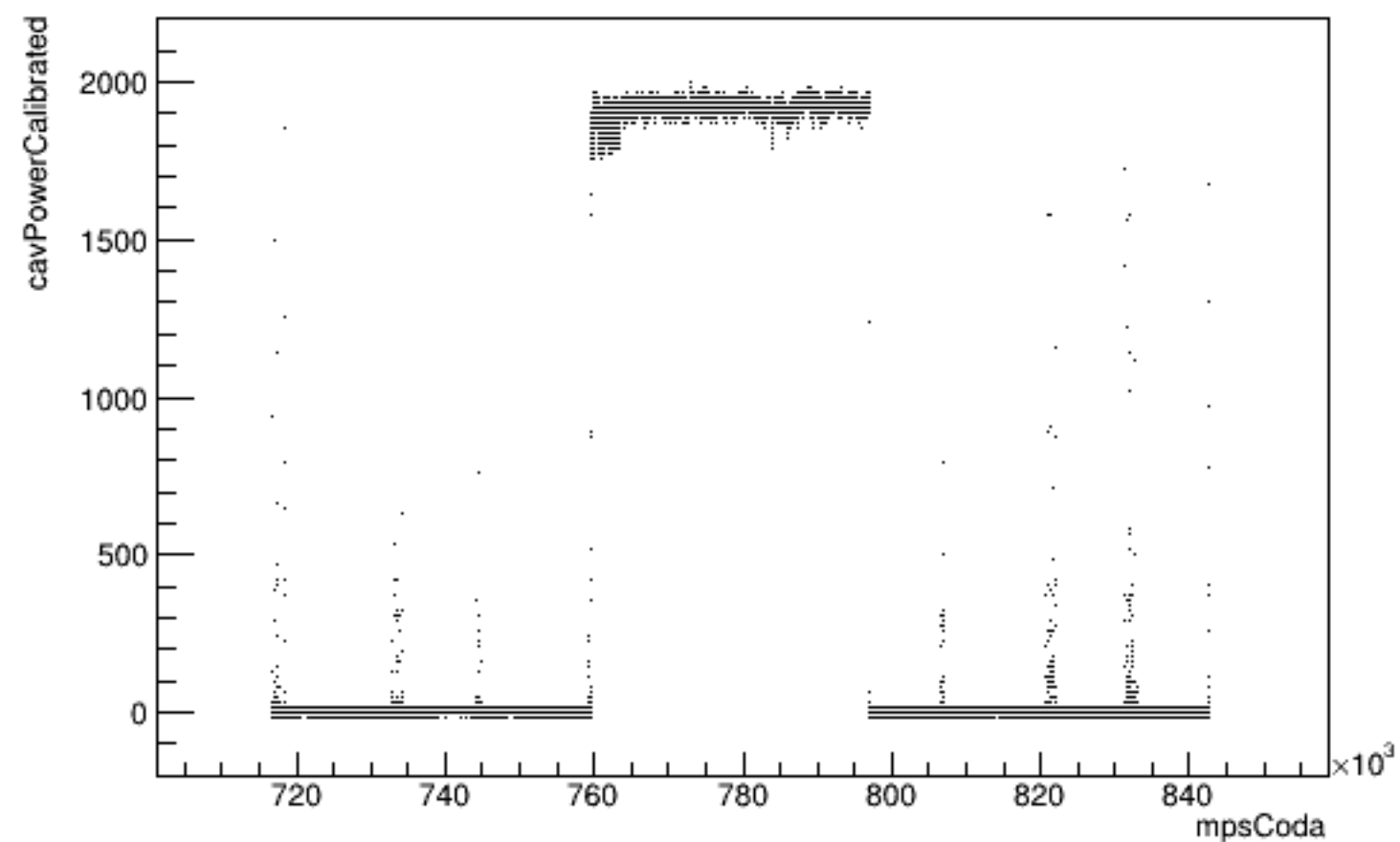
laserState:mpsCoda {mpsCoda&gt;=716785 &amp;&amp; mpsCoda&lt;=842576}



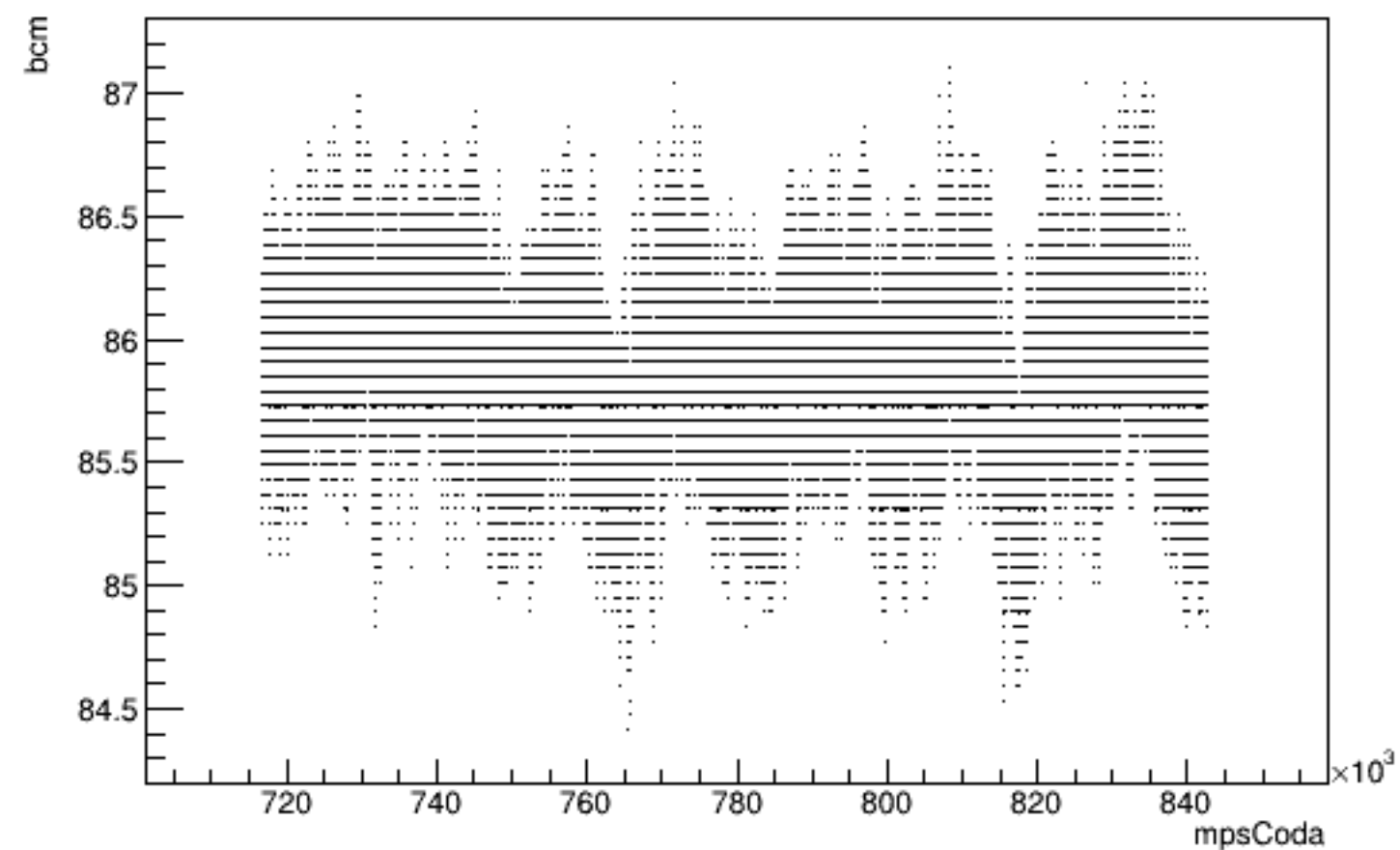
beamState + 1:mpsCoda {mpsCoda&gt;=716785 &amp;&amp; mpsCoda&lt;=842576}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=716785 &amp;&amp; mpsCoda&lt;=842576}



bcm:mpsCoda {mpsCoda&gt;=716785 &amp;&amp; mpsCoda&lt;=842576}



## Cycle 15, Diffs

Entries: 3026

Mean: 0.2433 +/- 0.0055

Std Dev: 0.3017 +/- 0.0039

Entries: 3994

Mean: 0.2880 +/- 0.0057

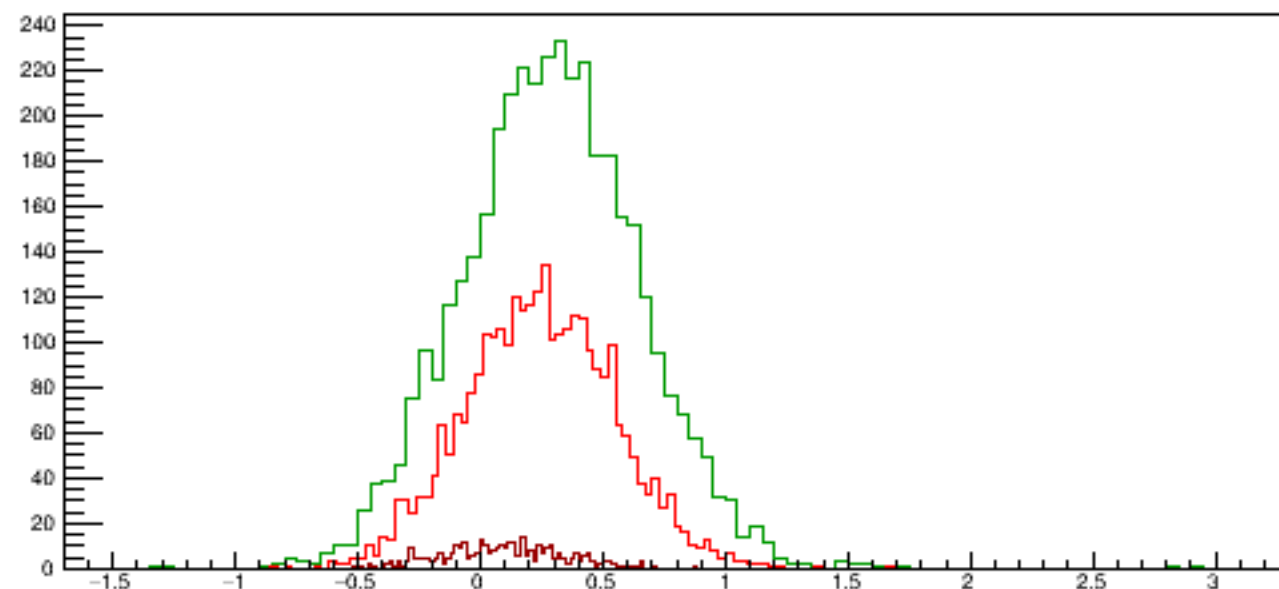
Std Dev: 0.3620 +/- 0.0041

Entries: 357

Mean: 0.0900 +/- 0.0130

Std Dev: 0.2456 +/- 0.0092

Run 4591 quartetwise, Diffs



## Cycle 15, Sums

Entries: 3026

Mean: 14.1384 +/- 0.0137

Std Dev: 0.7542 +/- 0.0097

Entries: 3994

Mean: 20.8847 +/- 0.0181

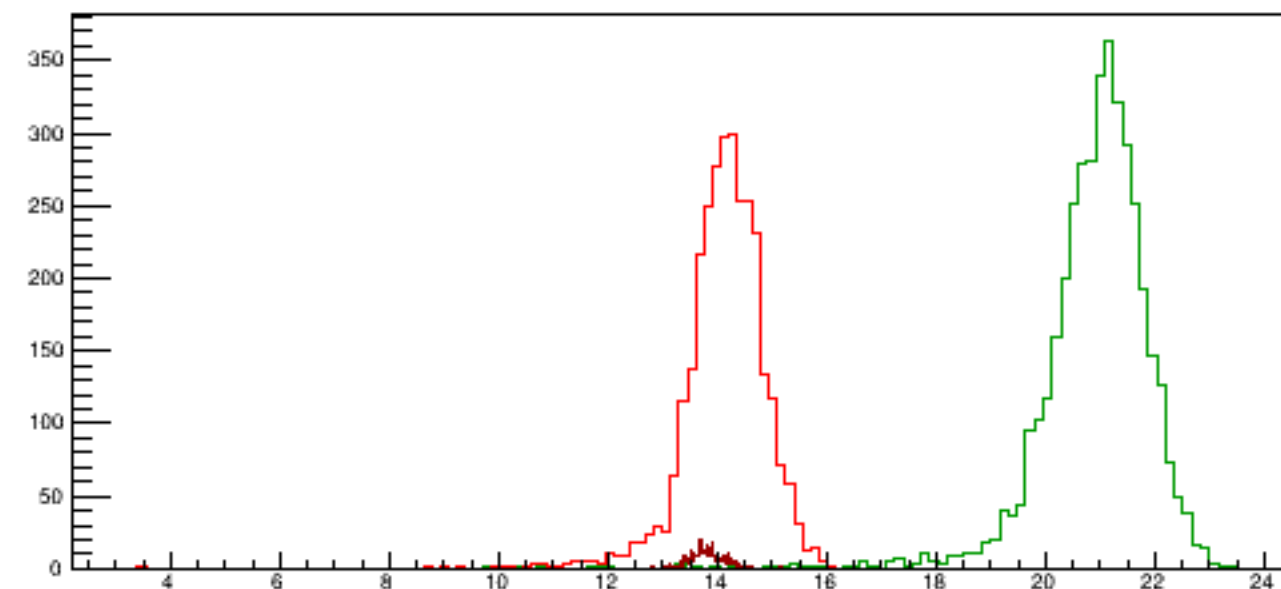
Std Dev: 1.1421 +/- 0.0128

Entries: 357

Mean: 13.8089 +/- 0.0167

Std Dev: 0.3159 +/- 0.0118

Run 4591 quartetwise, Sums



## Cycle 15, Asyms

Entries: 3026

Mean: 0.0352 +/- 0.0008

Std Dev: 0.0437 +/- 0.0006

Entries: 3994

Mean: 0.2369 +/- 0.1962

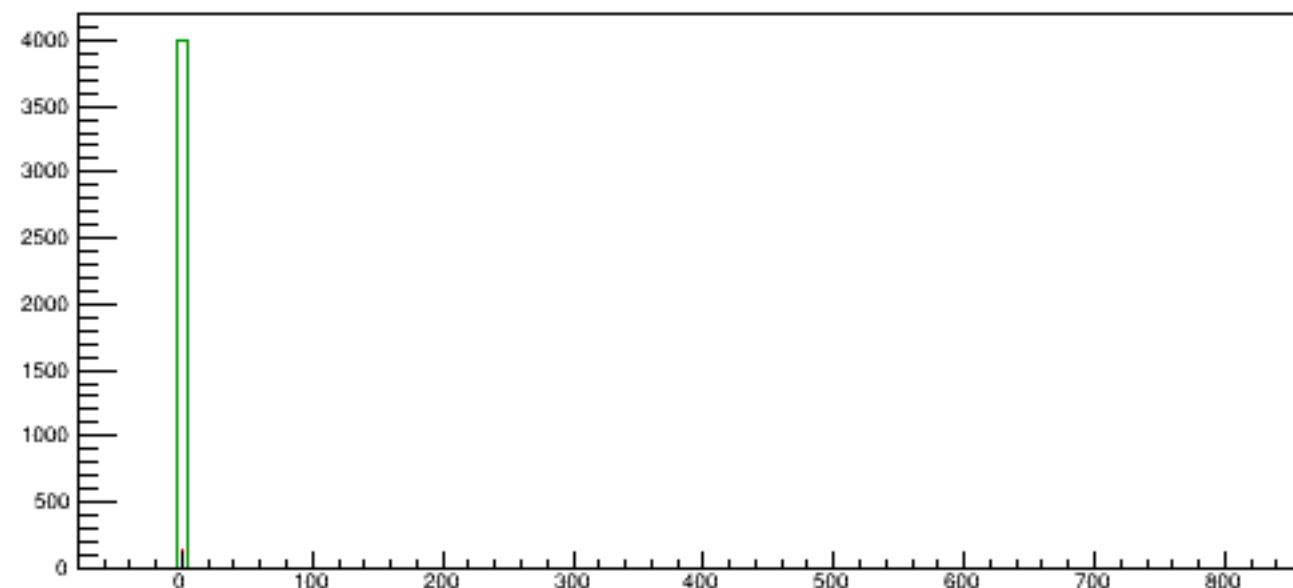
Std Dev: 12.4000 +/- 0.1387

Entries: 357

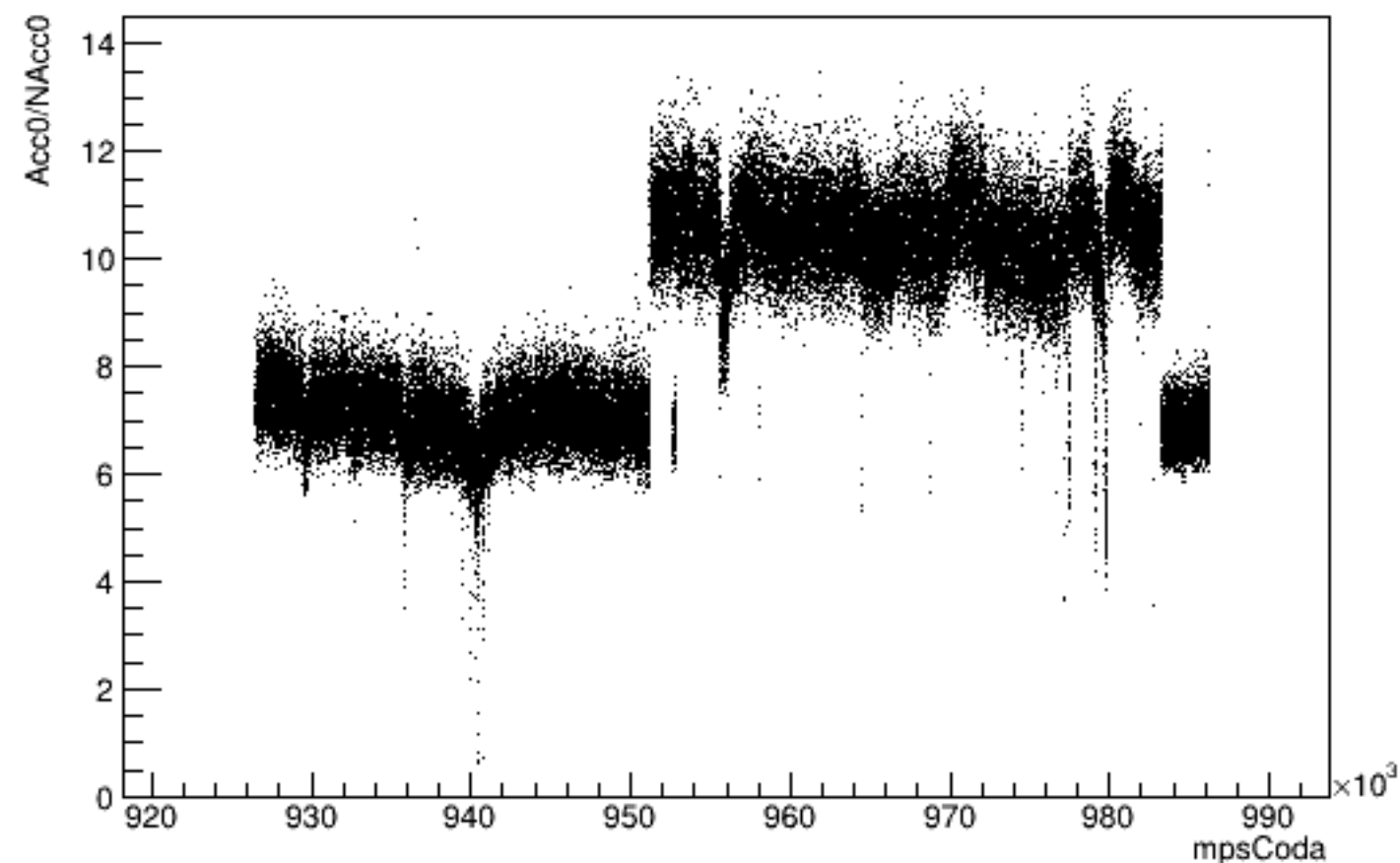
Mean: 0.0130 +/- 0.0019

Std Dev: 0.0355 +/- 0.0013

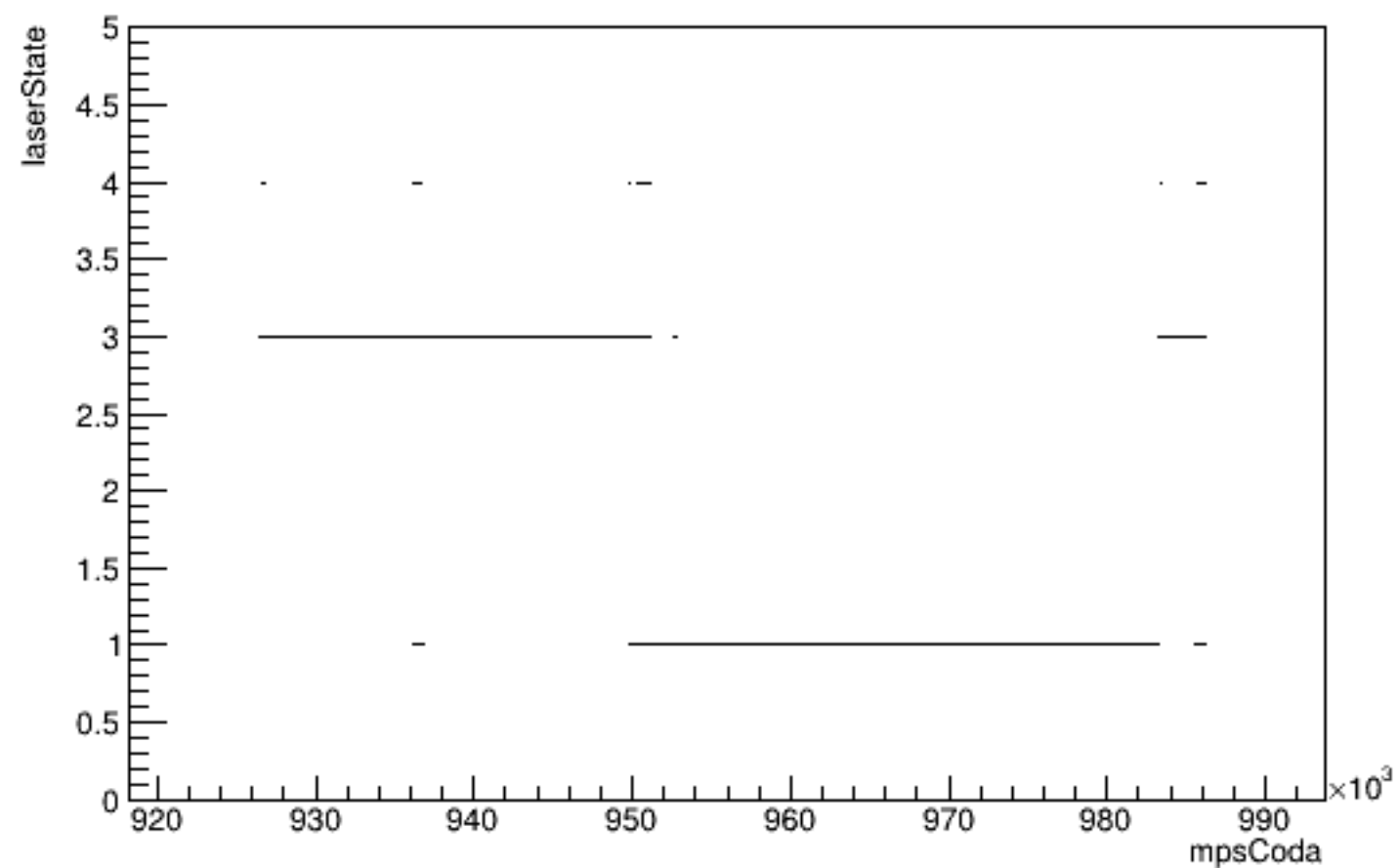
Run 4591 quartetwise, Asyms



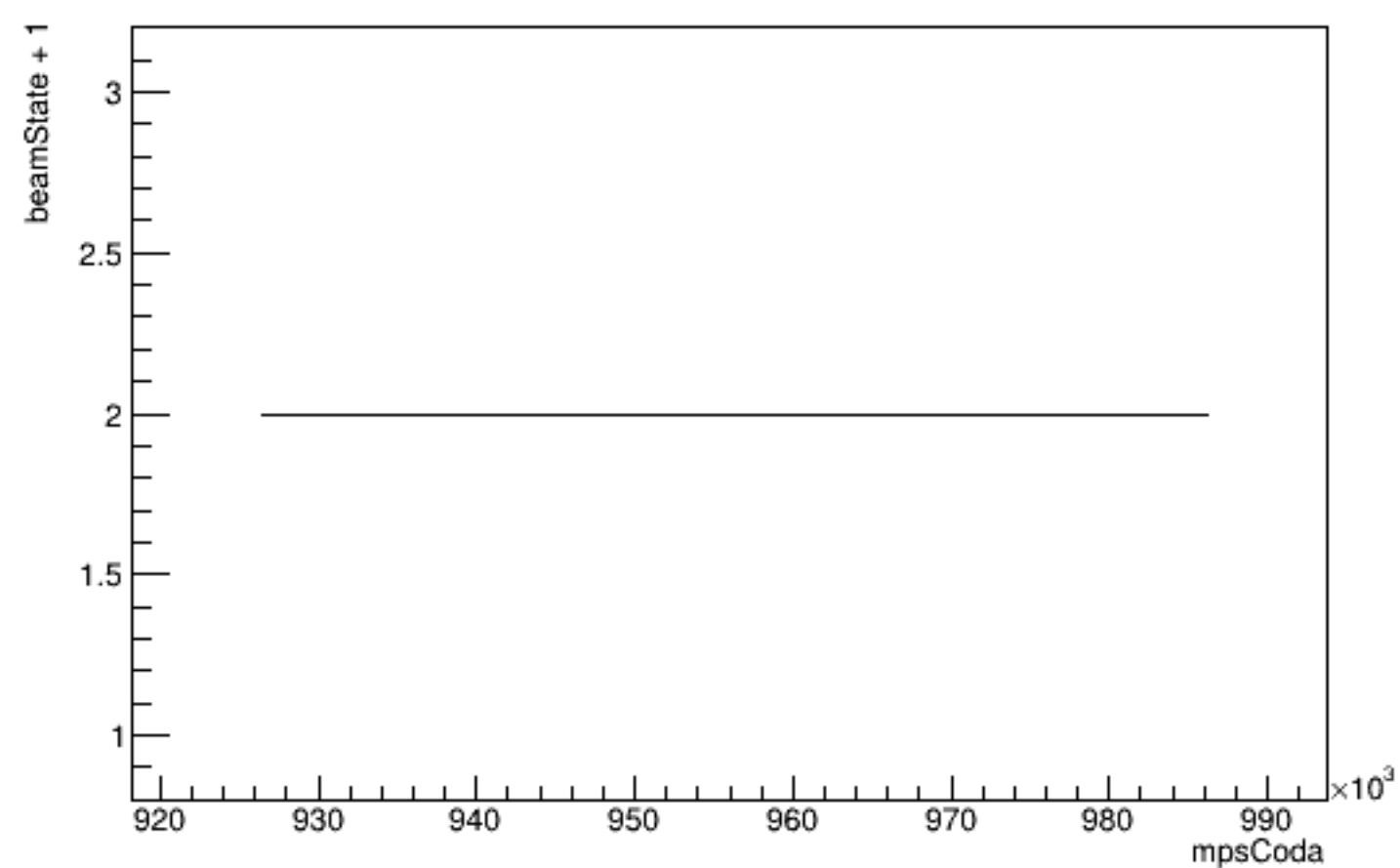
Acc0/NAcc0:mpsCoda (mpsCoda>=926505 && mpsCoda<=986280 && beamState==1)



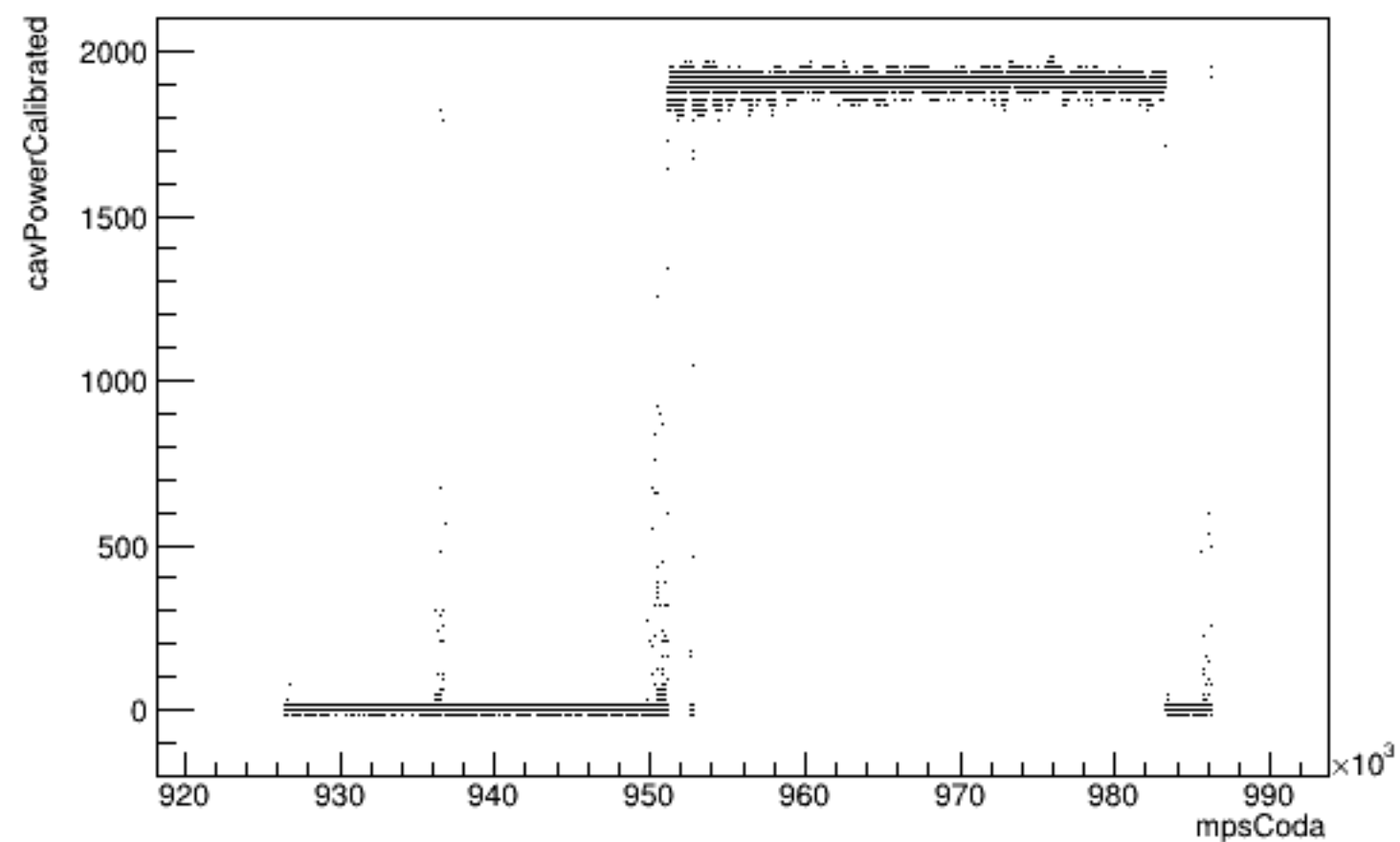
laserState:mpsCoda {mpsCoda&gt;=926505 &amp;&amp; mpsCoda&lt;=986280}



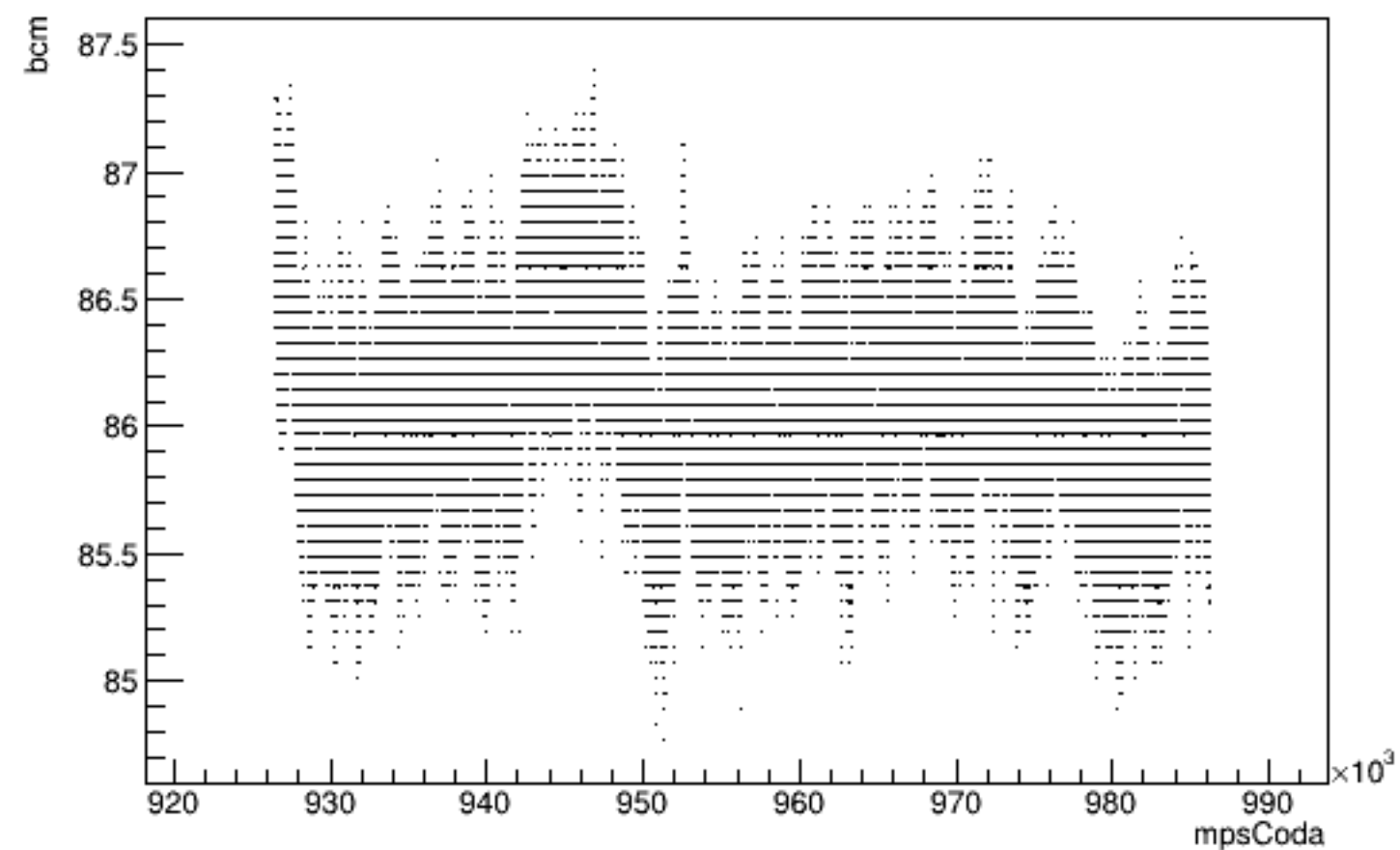
beamState + 1:mpsCoda {mpsCoda&gt;=926505 &amp;&amp; mpsCoda&lt;=986280}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=926505 &amp;&amp; mpsCoda&lt;=986280}



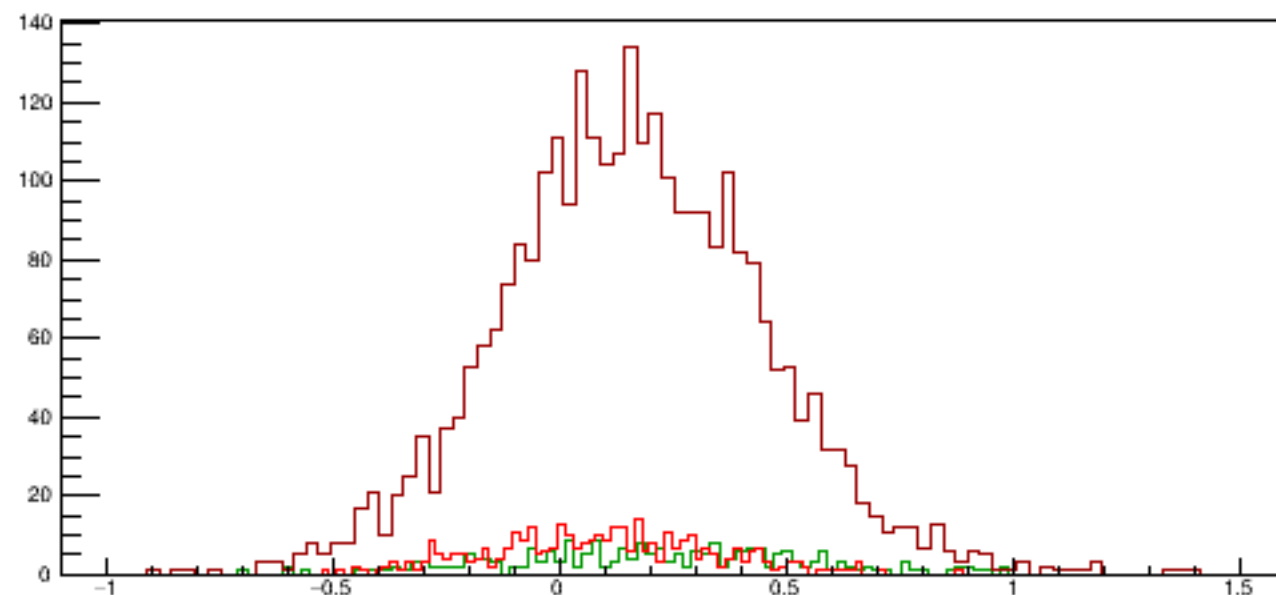
bcm:mpsCoda {mpsCoda&gt;=926505 &amp;&amp; mpsCoda&lt;=986280}



## Cycle 16, Diffs

| Entries: 357               | Entries: 232               | Entries: 2993              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0900 +/- 0.0130    | Mean: 0.2044 +/- 0.0218    | Mean: 0.1603 +/- 0.0053    |
| Std Dev: 0.2456 +/- 0.0092 | Std Dev: 0.3318 +/- 0.0154 | Std Dev: 0.2879 +/- 0.0037 |

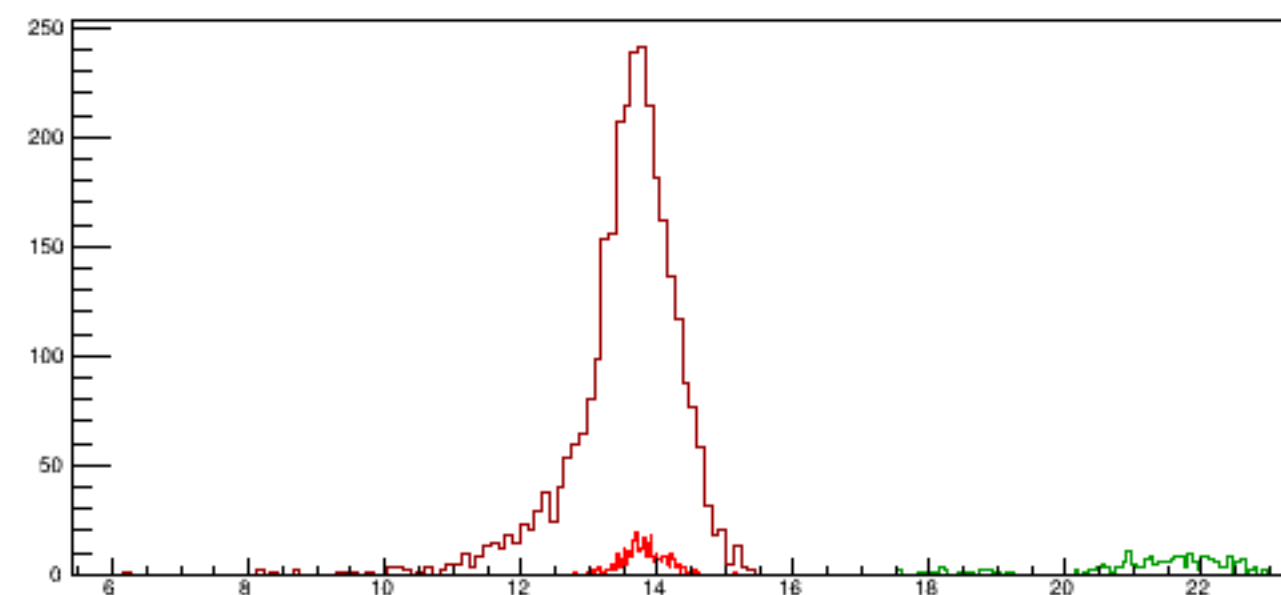
Run 4591 quartetwise, Diffs



## Cycle 16, Sums

| Entries: 357               | Entries: 232               | Entries: 2993              |
|----------------------------|----------------------------|----------------------------|
| Mean: 13.8089 +/- 0.0167   | Mean: 21.2661 +/- 0.0764   | Mean: 13.5530 +/- 0.0144   |
| Std Dev: 0.3159 +/- 0.0118 | Std Dev: 1.1636 +/- 0.0540 | Std Dev: 0.7897 +/- 0.0102 |

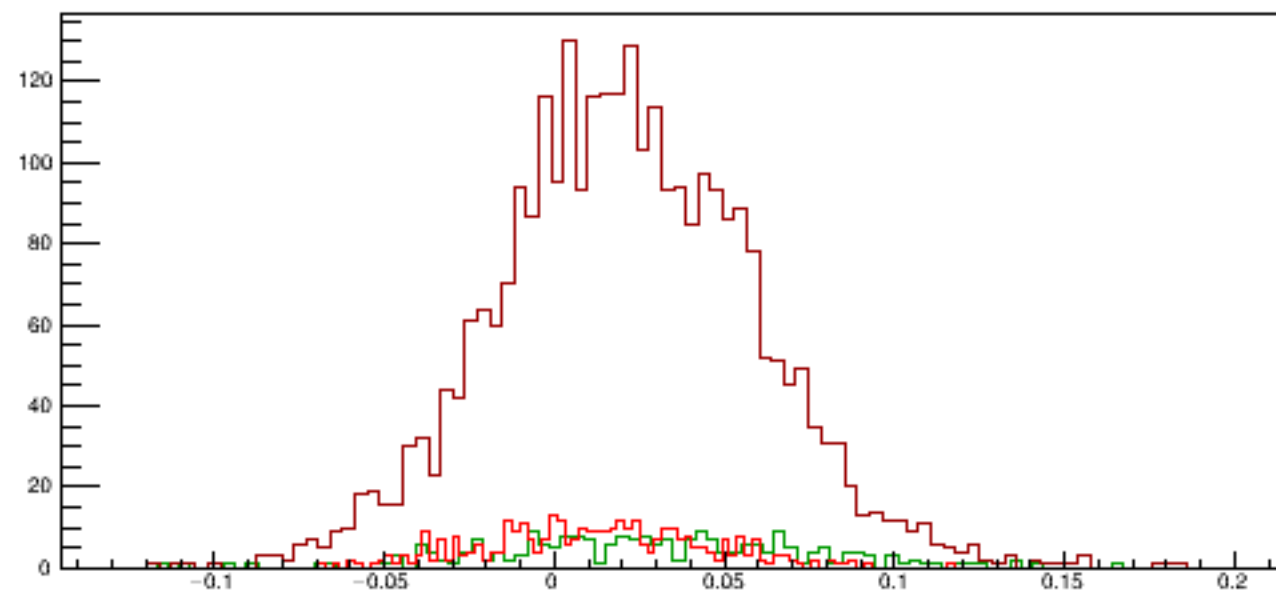
Run 4591 quartetwise, Sums



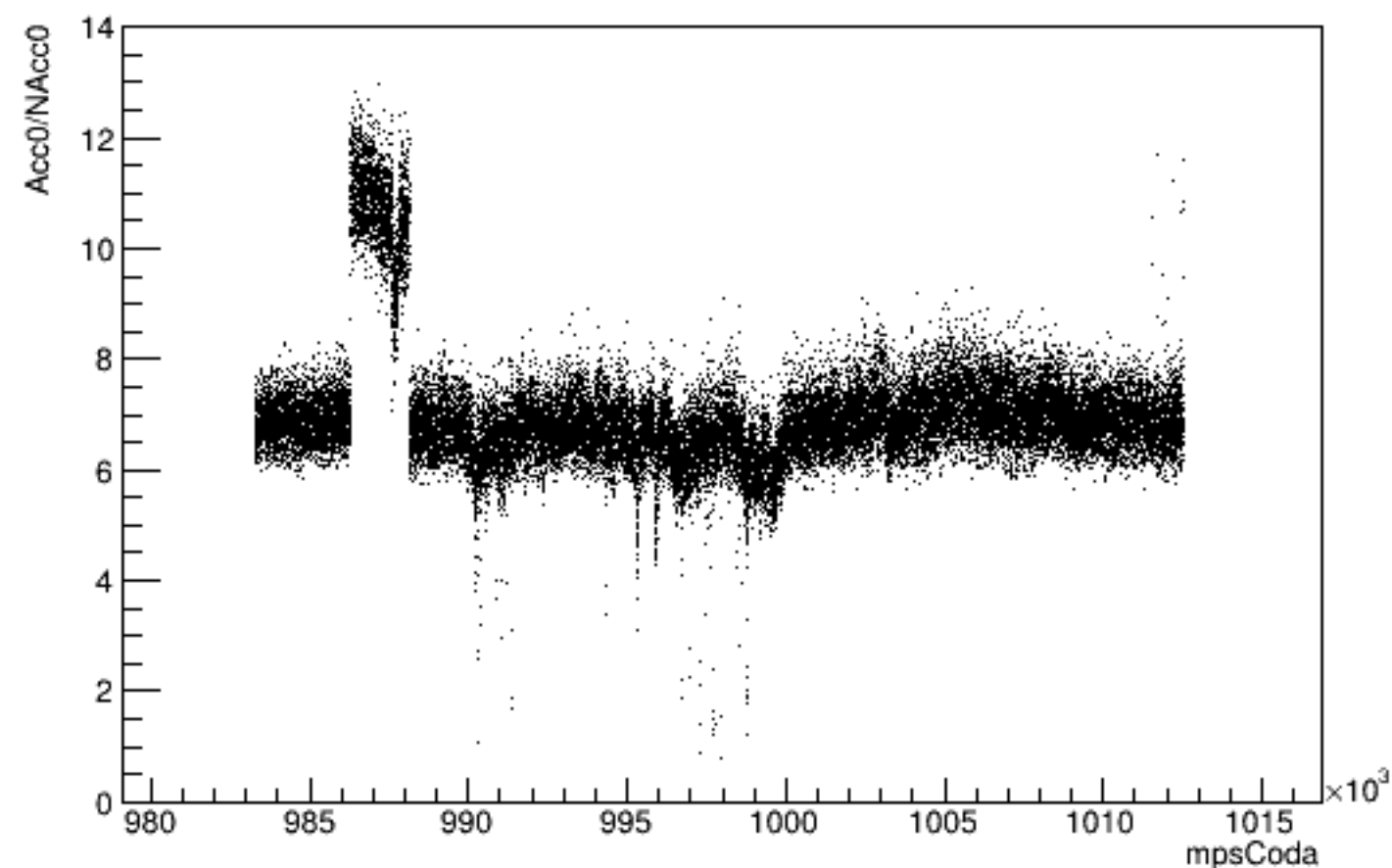
## Cycle 16, Asyms

| Entries: 357               | Entries: 232               | Entries: 2993              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0119 +/- 0.0017    | Mean: 0.0279 +/- 0.0030    | Mean: 0.0211 +/- 0.0007    |
| Std Dev: 0.0324 +/- 0.0012 | Std Dev: 0.0463 +/- 0.0022 | Std Dev: 0.0380 +/- 0.0005 |

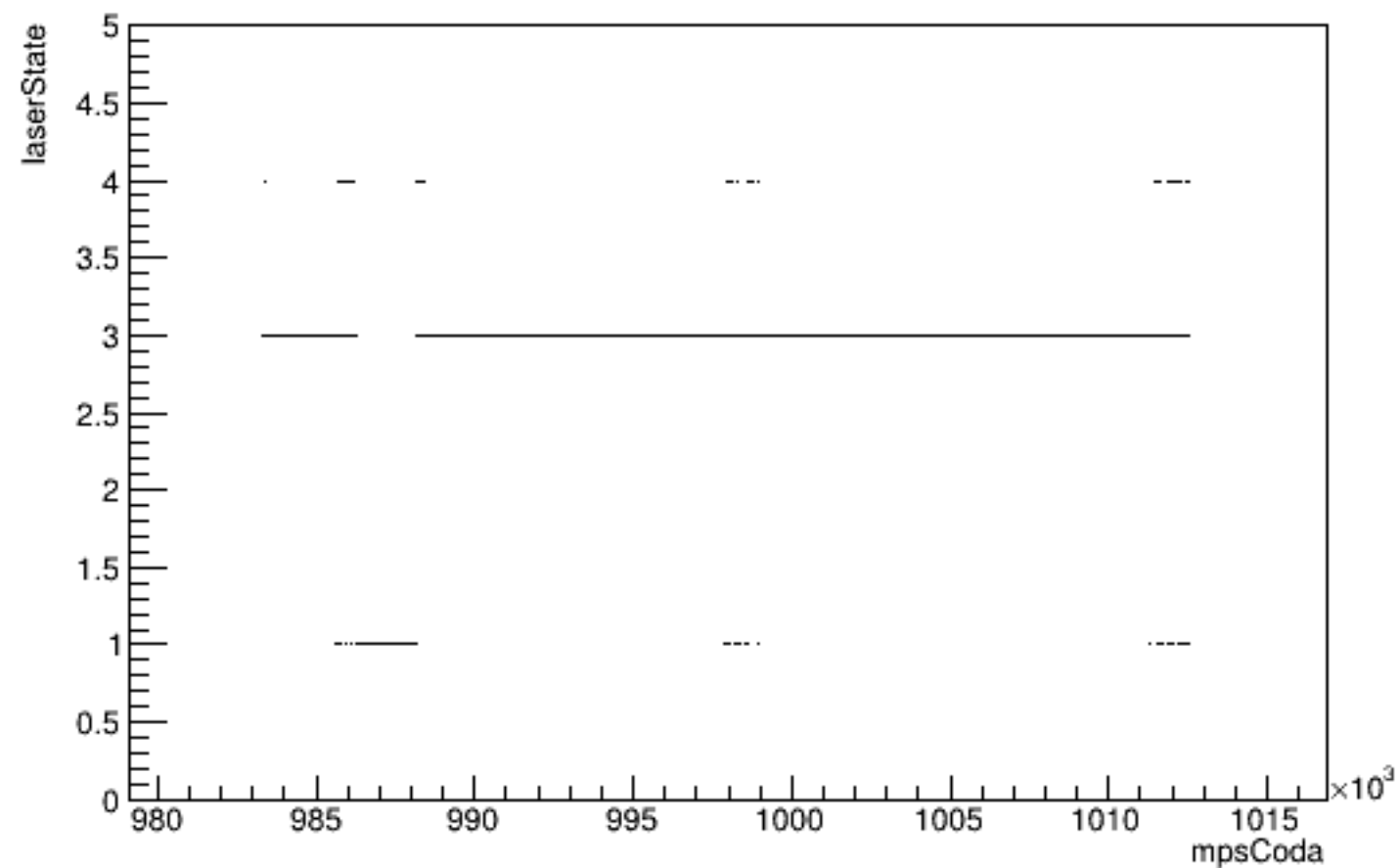
Run 4591 quartetwise, Asyms



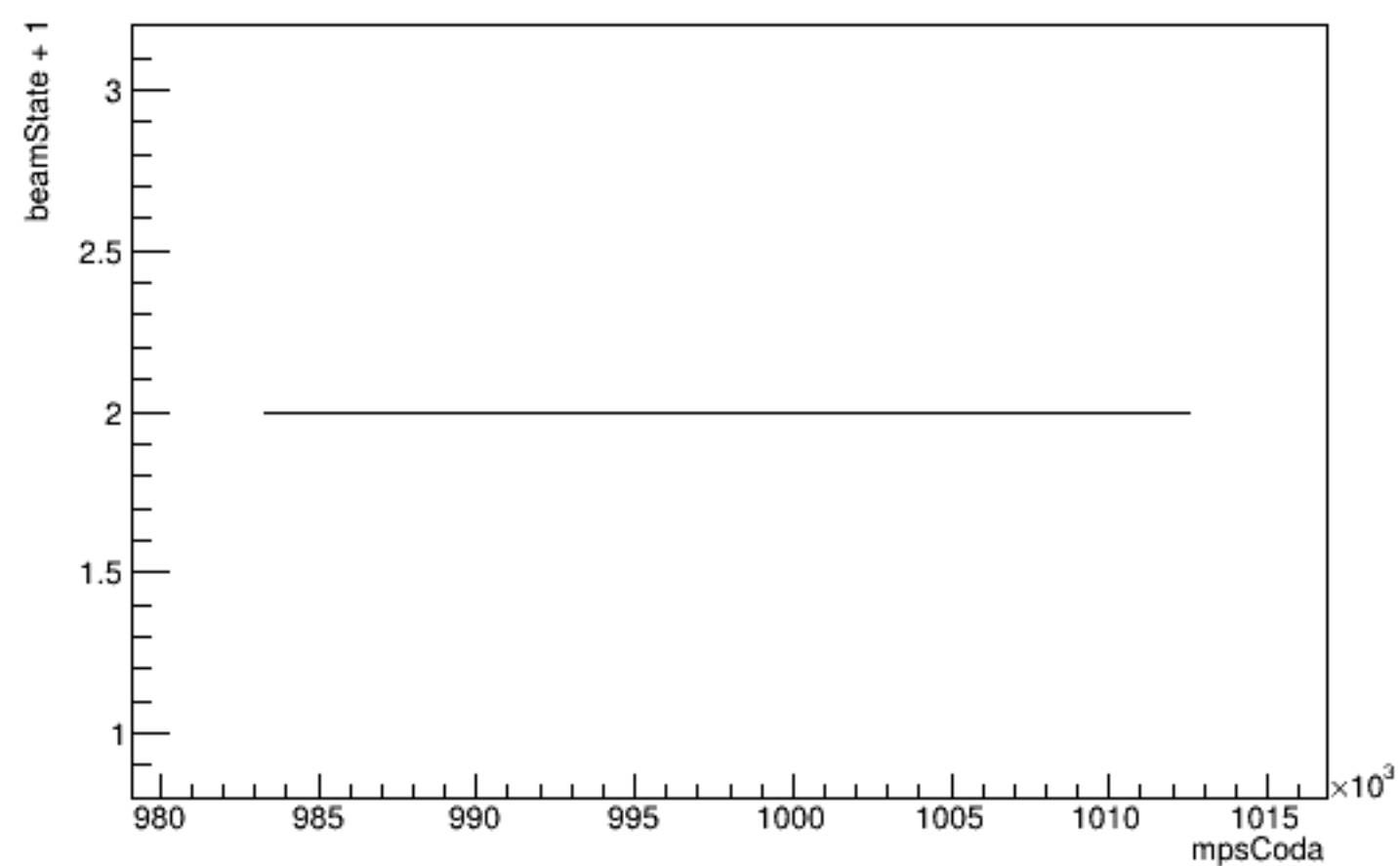
Acc0/NAcc0:mpsCoda (mpsCoda>=983273 && mpsCoda<=1012512 && beamState==1)



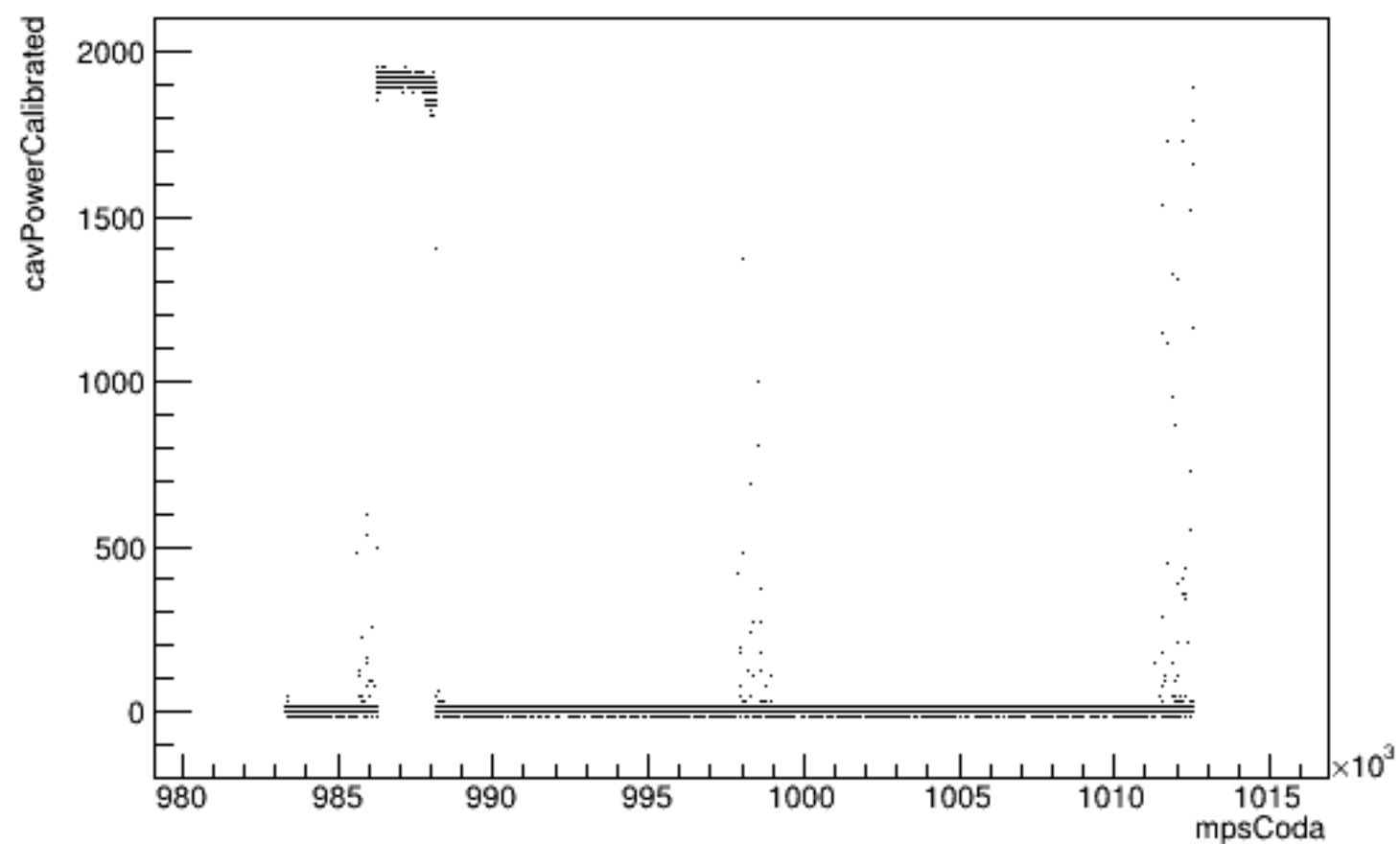
laserState:mpsCoda {mpsCoda&gt;=983273 &amp;&amp; mpsCoda&lt;=1012512}



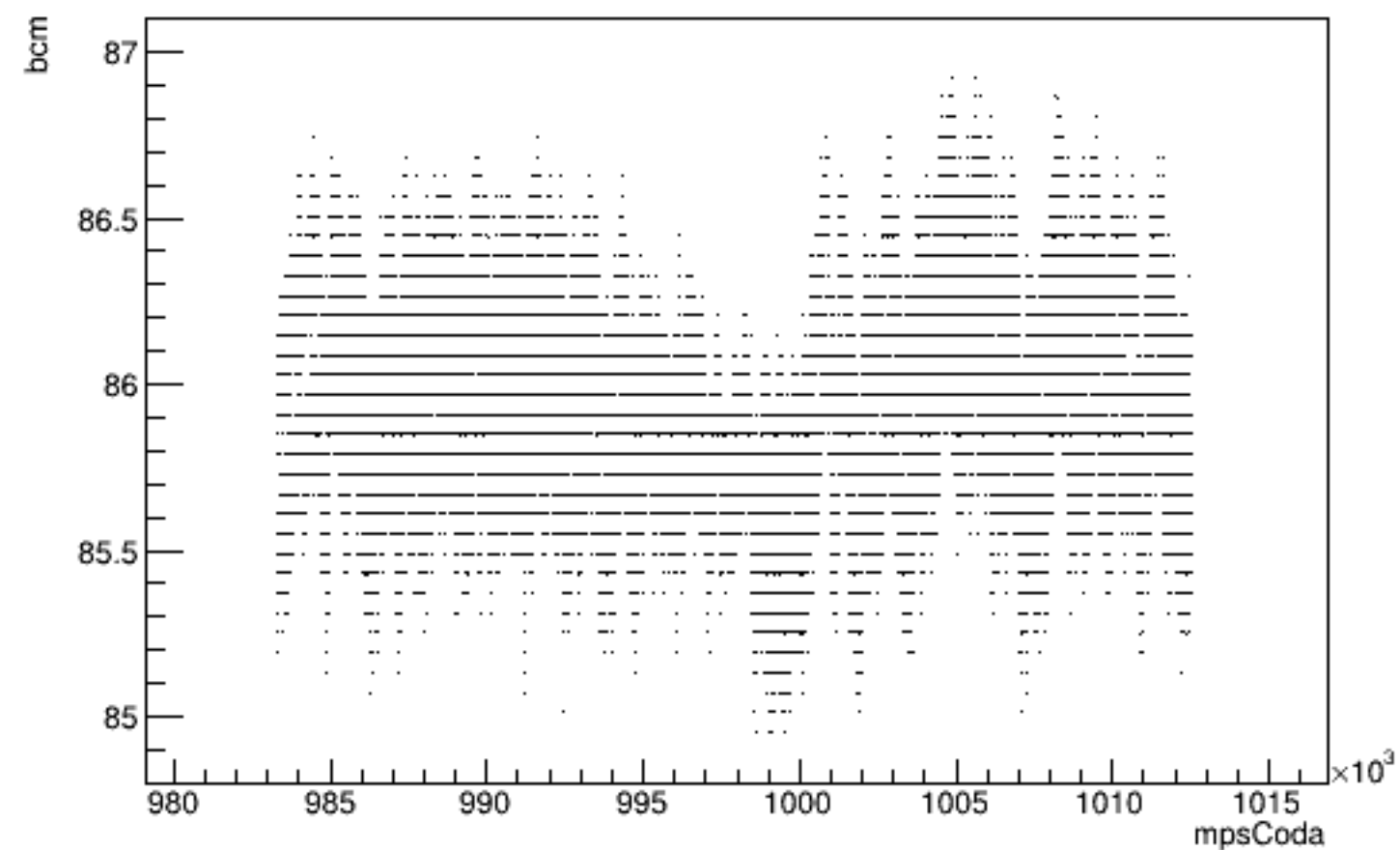
beamState + 1:mpsCoda {mpsCoda&gt;=983273 &amp;&amp; mpsCoda&lt;=1012512}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=983273 &amp;&amp; mpsCoda&lt;=1012512}



bcm:mpsCoda {mpsCoda&gt;=983273 &amp;&amp; mpsCoda&lt;=1012512}



## Cycle 17, Diffs

Entries: 2993

Mean: 0.1603 +/- 0.0053

Std Dev: 0.2879 +/- 0.0037

Entries: 1883

Mean: 0.2281 +/- 0.0077

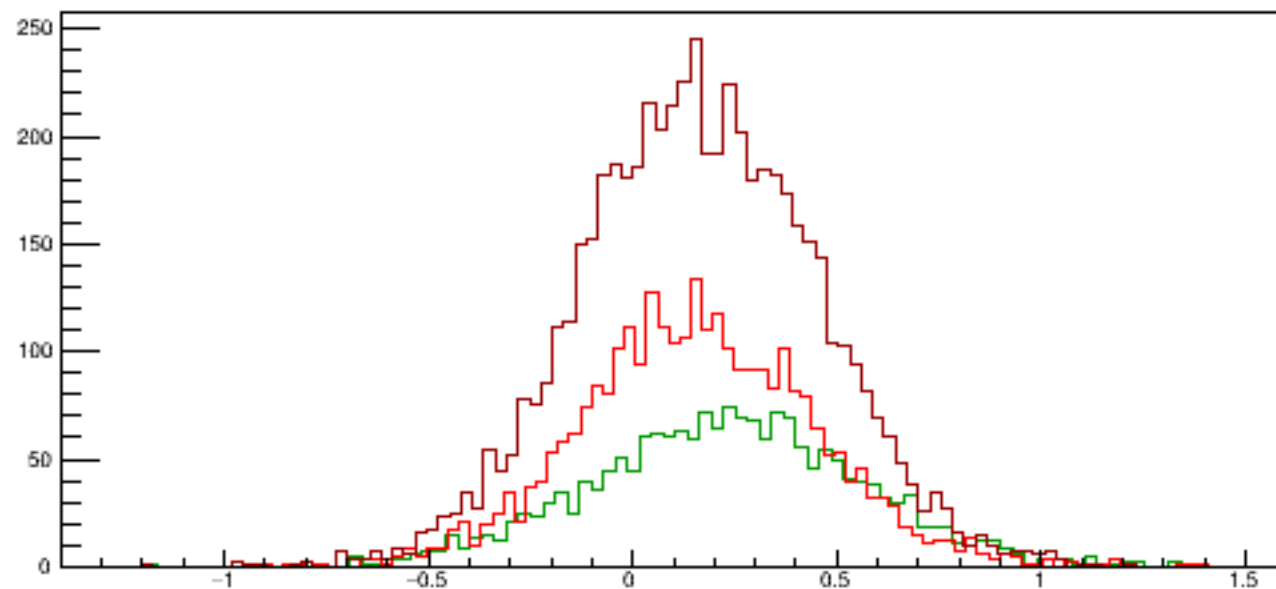
Std Dev: 0.3320 +/- 0.0054

Entries: 5702

Mean: 0.1622 +/- 0.0038

Std Dev: 0.2897 +/- 0.0027

Run 4591 quartetwise, Diffs



## Cycle 17, Sums

Entries: 2993

Mean: 13.5530 +/- 0.0144

Std Dev: 0.7897 +/- 0.0102

Entries: 1883

Mean: 20.7325 +/- 0.0448

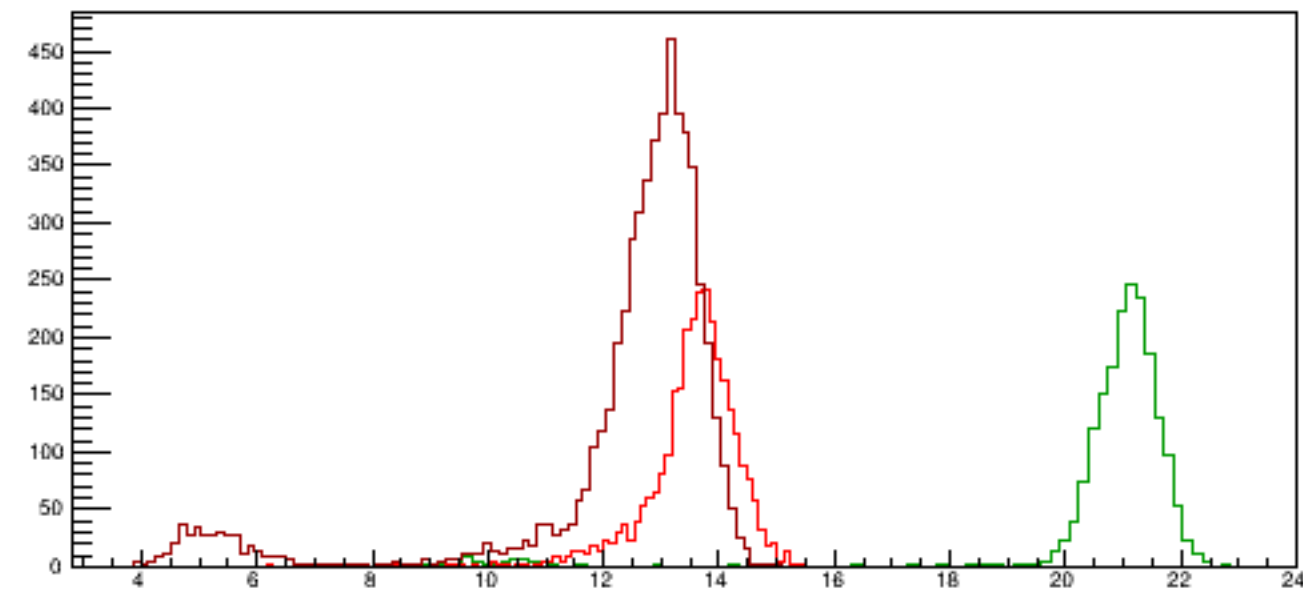
Std Dev: 1.9443 +/- 0.0317

Entries: 5702

Mean: 12.3264 +/- 0.0275

Std Dev: 2.0795 +/- 0.0195

Run 4591 quartetwise, Sums



## Cycle 17, Asyms

Entries: 2993

Mean: 0.0206 +/- 0.0007

Std Dev: 0.0370 +/- 0.0005

Entries: 1883

Mean: 0.0412 +/- 0.0149

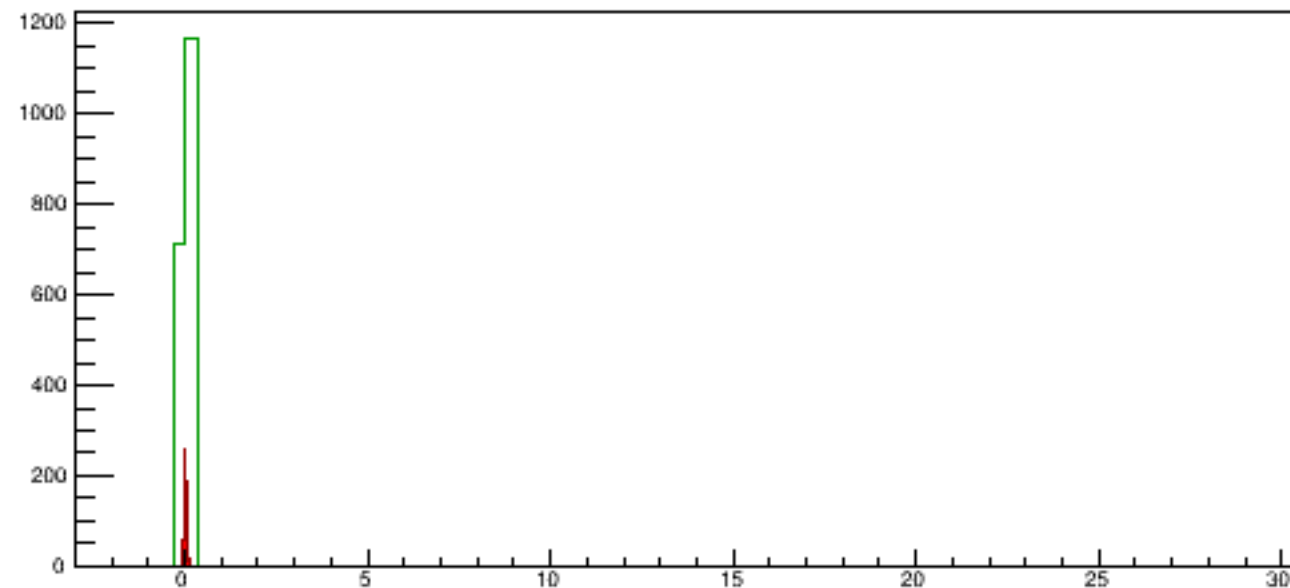
Std Dev: 0.6476 +/- 0.0106

Entries: 5702

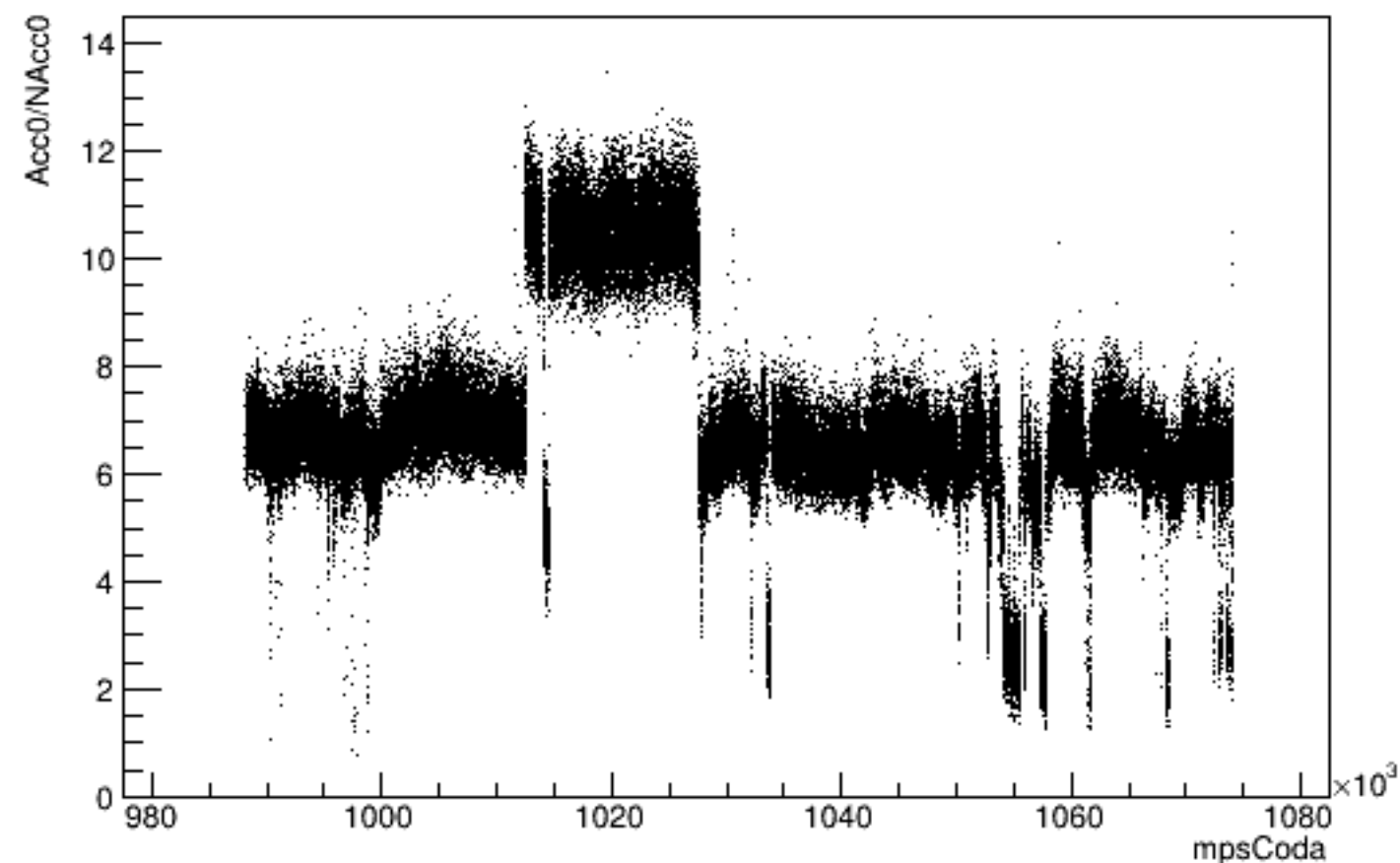
Mean: 0.0208 +/- 0.0005

Std Dev: 0.0372 +/- 0.0003

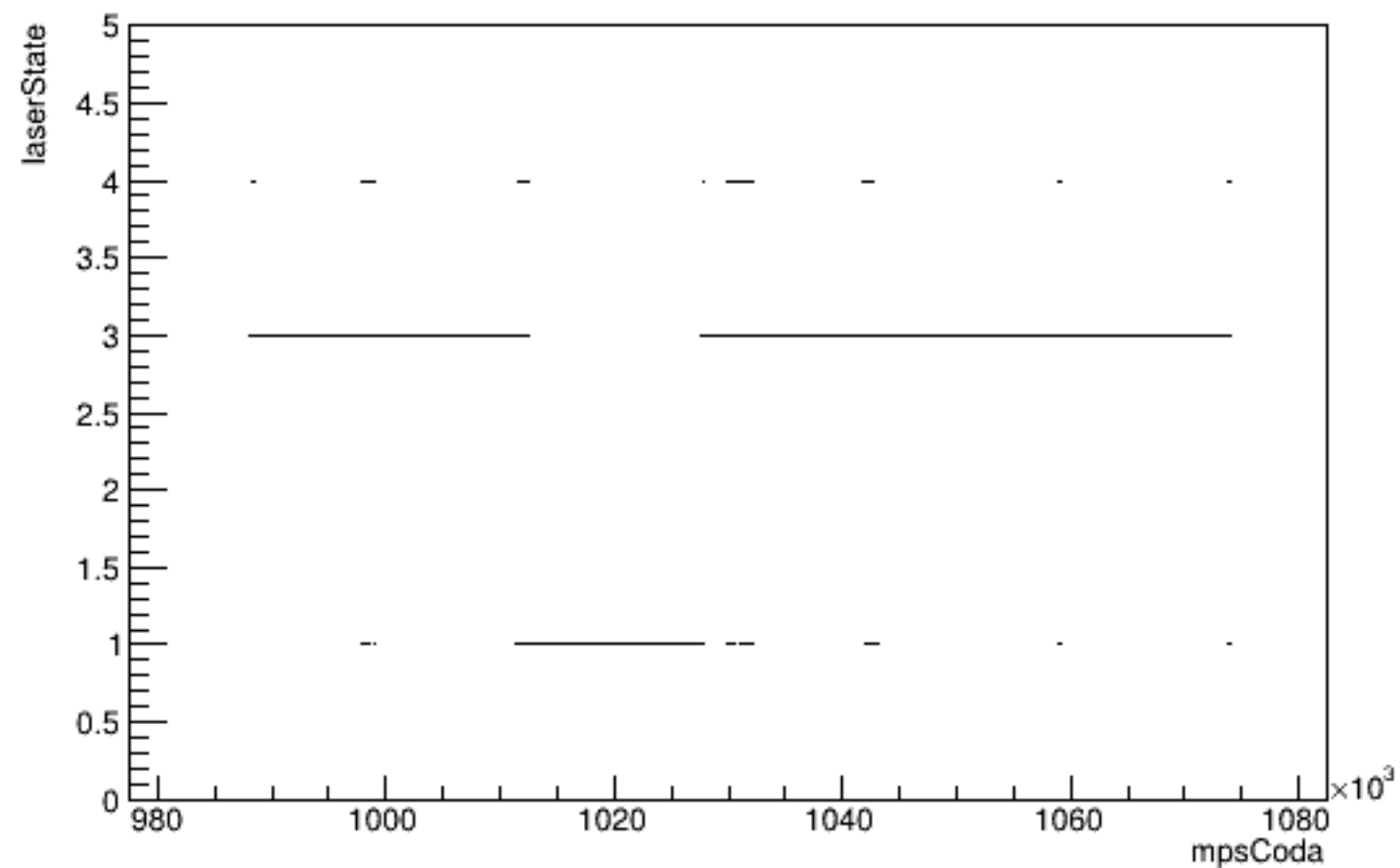
Run 4591 quartetwise, Asyms



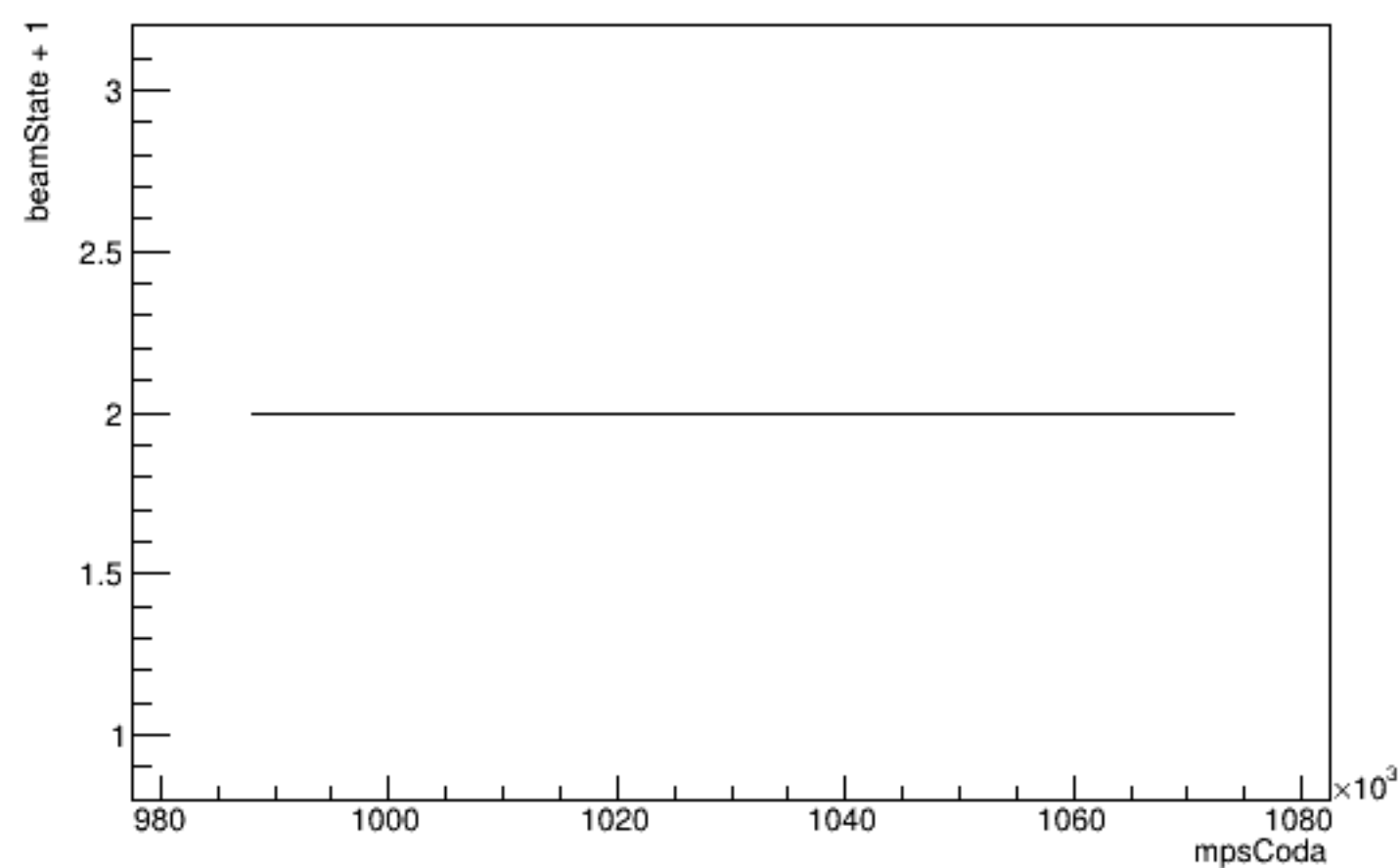
Acc0/NAcc0:mpsCoda (mpsCoda>=988153 && mpsCoda<=1074104 && beamState==1)



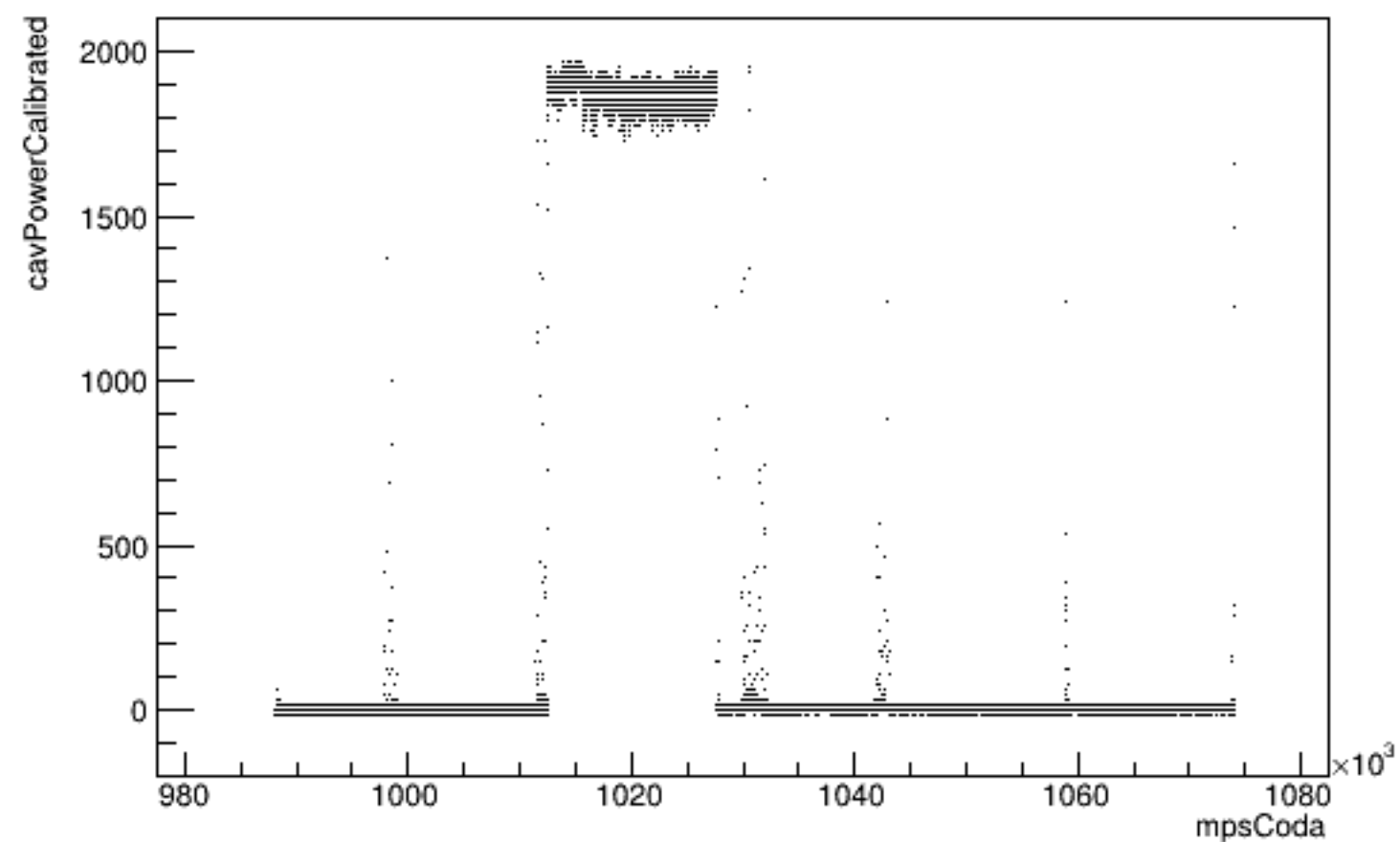
laserState:mpsCoda {mpsCoda&gt;=988153 &amp;&amp; mpsCoda&lt;=1074104}



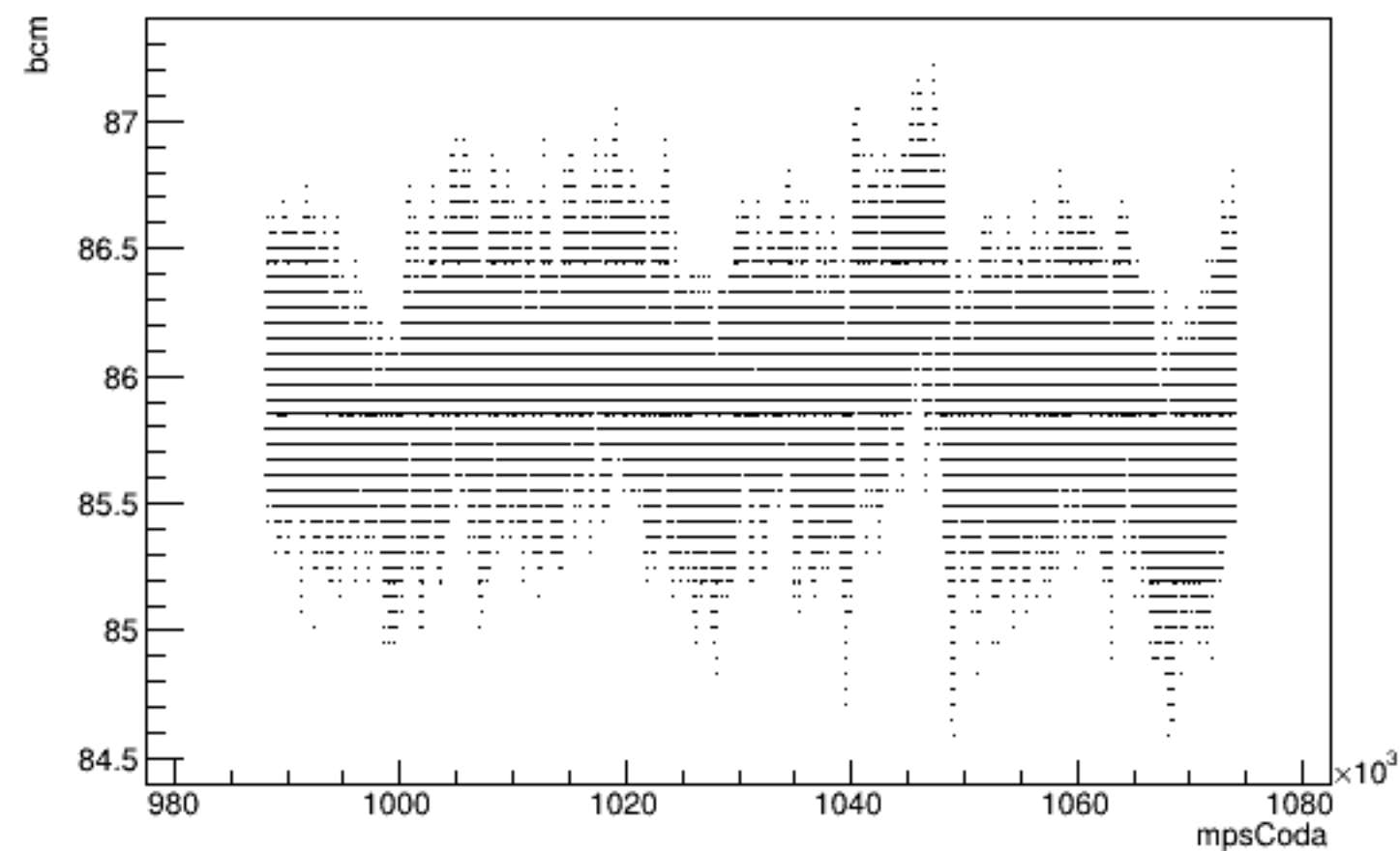
beamState + 1:mpsCoda {mpsCoda&gt;=988153 &amp;&amp; mpsCoda&lt;=1074104}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=988153 &amp;&amp; mpsCoda&lt;=1074104}



bcm:mpsCoda {mpsCoda&gt;=988153 &amp;&amp; mpsCoda&lt;=1074104}



## Cycle 18, Diffs

Entries: 5702

Mean: 0.1622 +/- 0.0038

Std Dev: 0.2897 +/- 0.0027

Entries: 376

Mean: 0.2494 +/- 0.0164

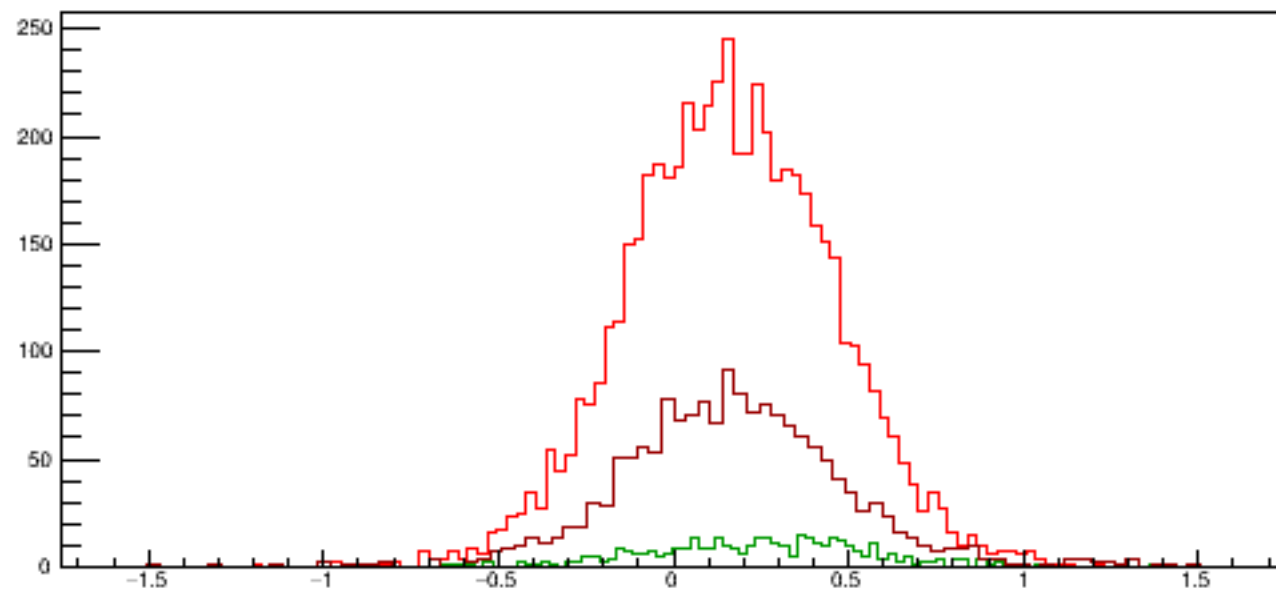
Std Dev: 0.3174 +/- 0.0116

Entries: 1621

Mean: 0.1693 +/- 0.0079

Std Dev: 0.3166 +/- 0.0056

Run 4591 quartetwise, Diffs



## Cycle 18, Sums

Entries: 5702

Mean: 12.3264 +/- 0.0275

Std Dev: 2.0795 +/- 0.0195

Entries: 376

Mean: 21.0257 +/- 0.0232

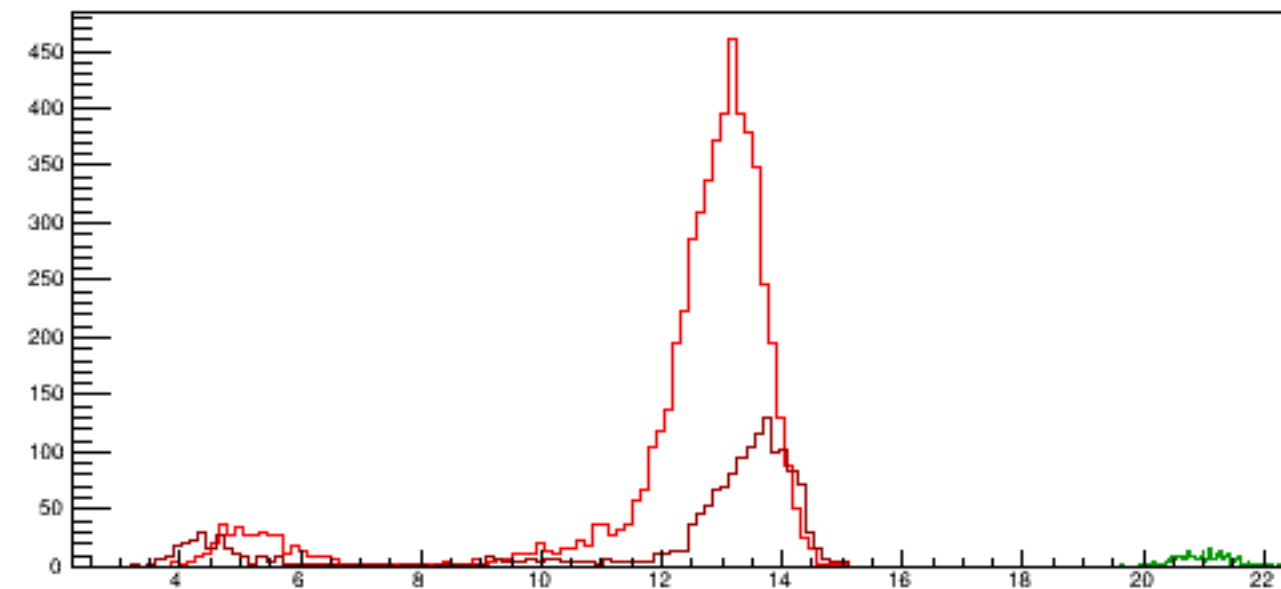
Std Dev: 0.4503 +/- 0.0164

Entries: 1621

Mean: 11.9782 +/- 0.0798

Std Dev: 3.2133 +/- 0.0564

Run 4591 quartetwise, Sums



## Cycle 18, Asyms

Entries: 5702

Mean: 0.0183 +/- 0.0004

Std Dev: 0.0326 +/- 0.0003

Entries: 376

Mean: 0.0281 +/- 0.0018

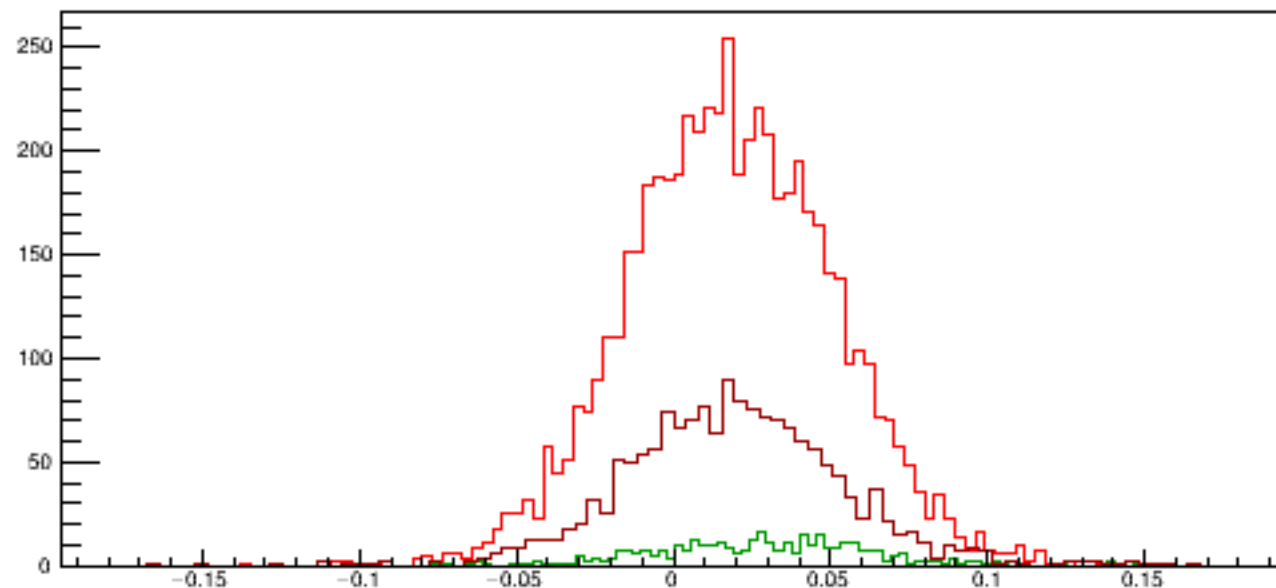
Std Dev: 0.0358 +/- 0.0013

Entries: 1621

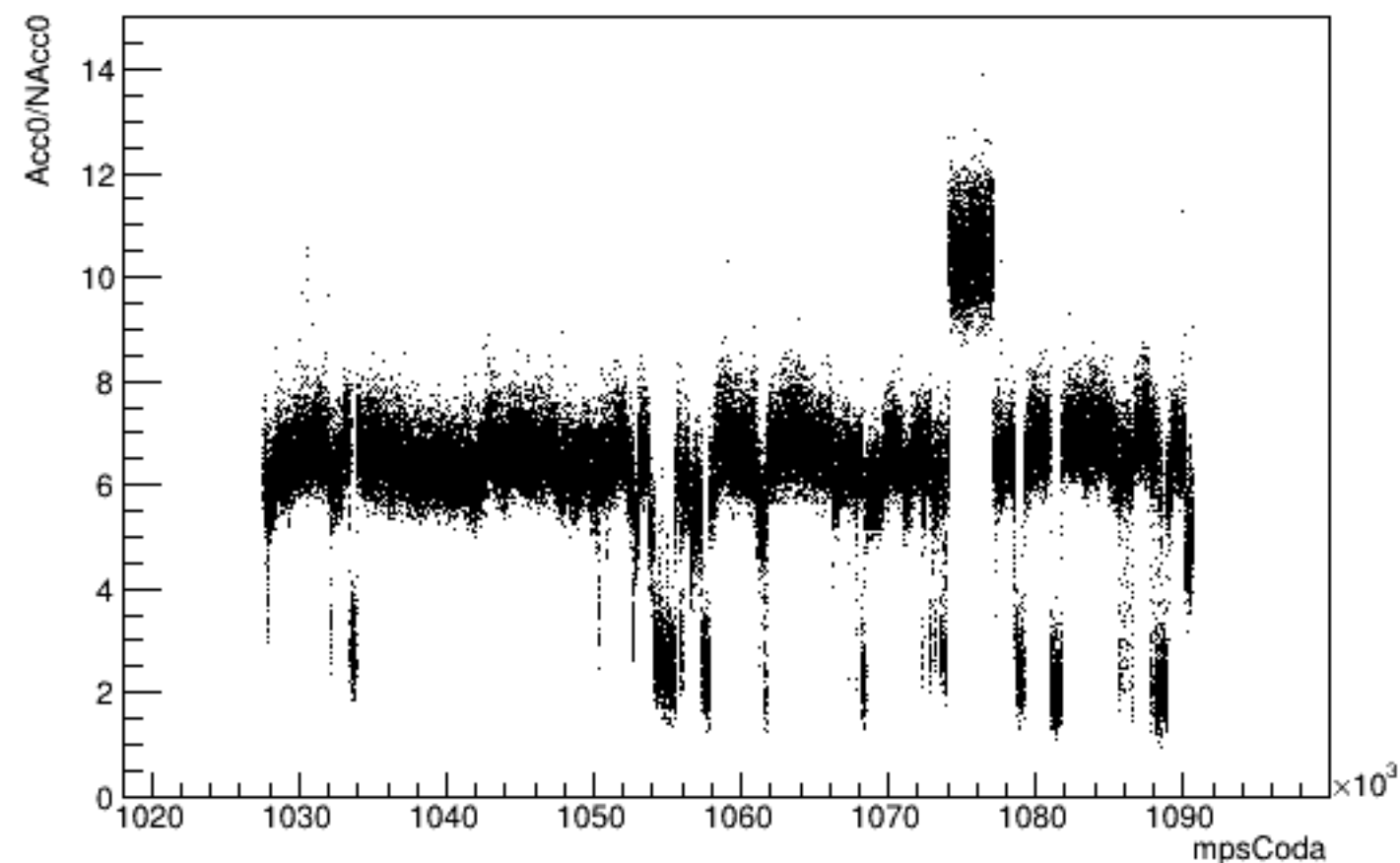
Mean: 0.0191 +/- 0.0009

Std Dev: 0.0357 +/- 0.0006

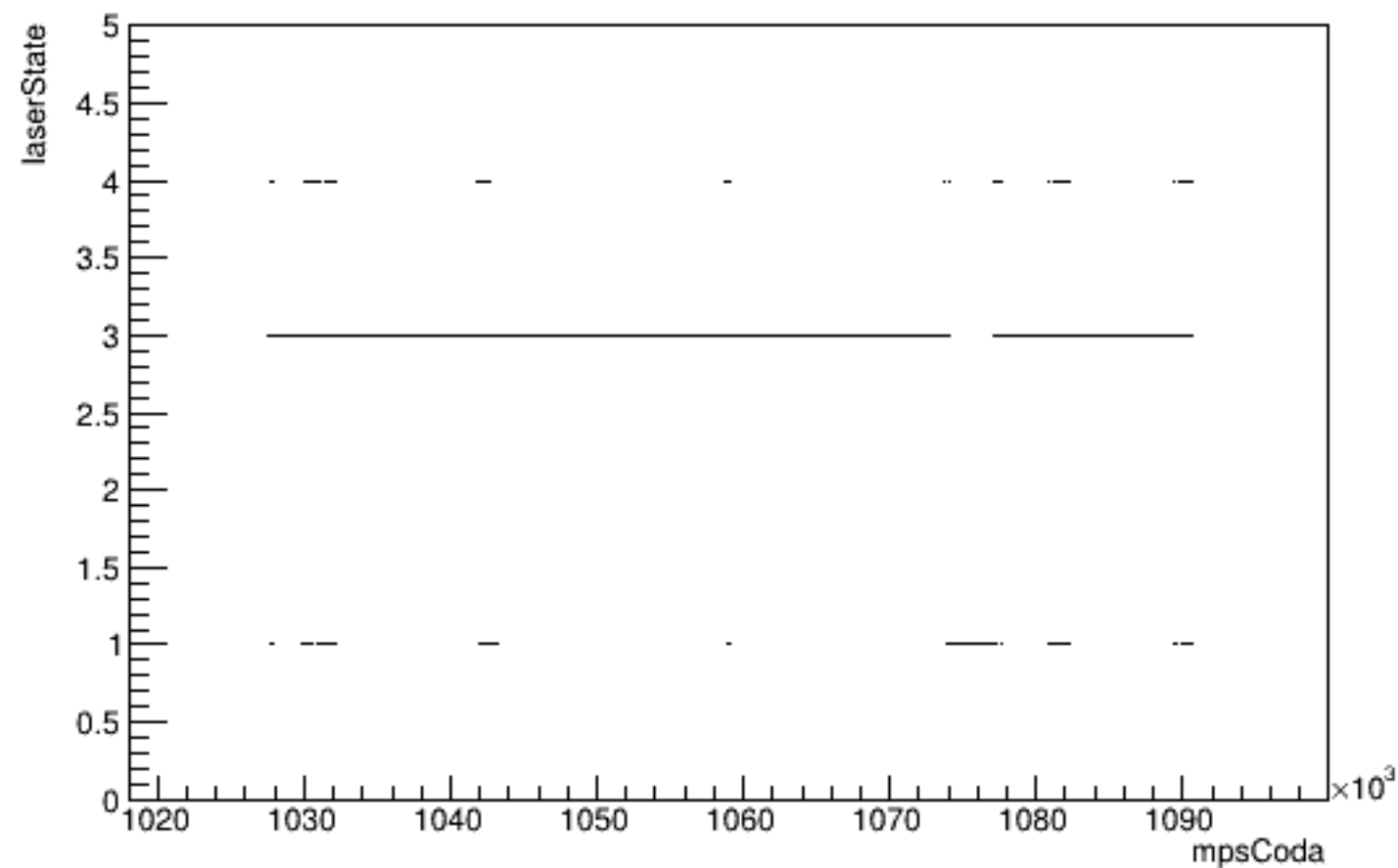
Run 4591 quartetwise, Asyms



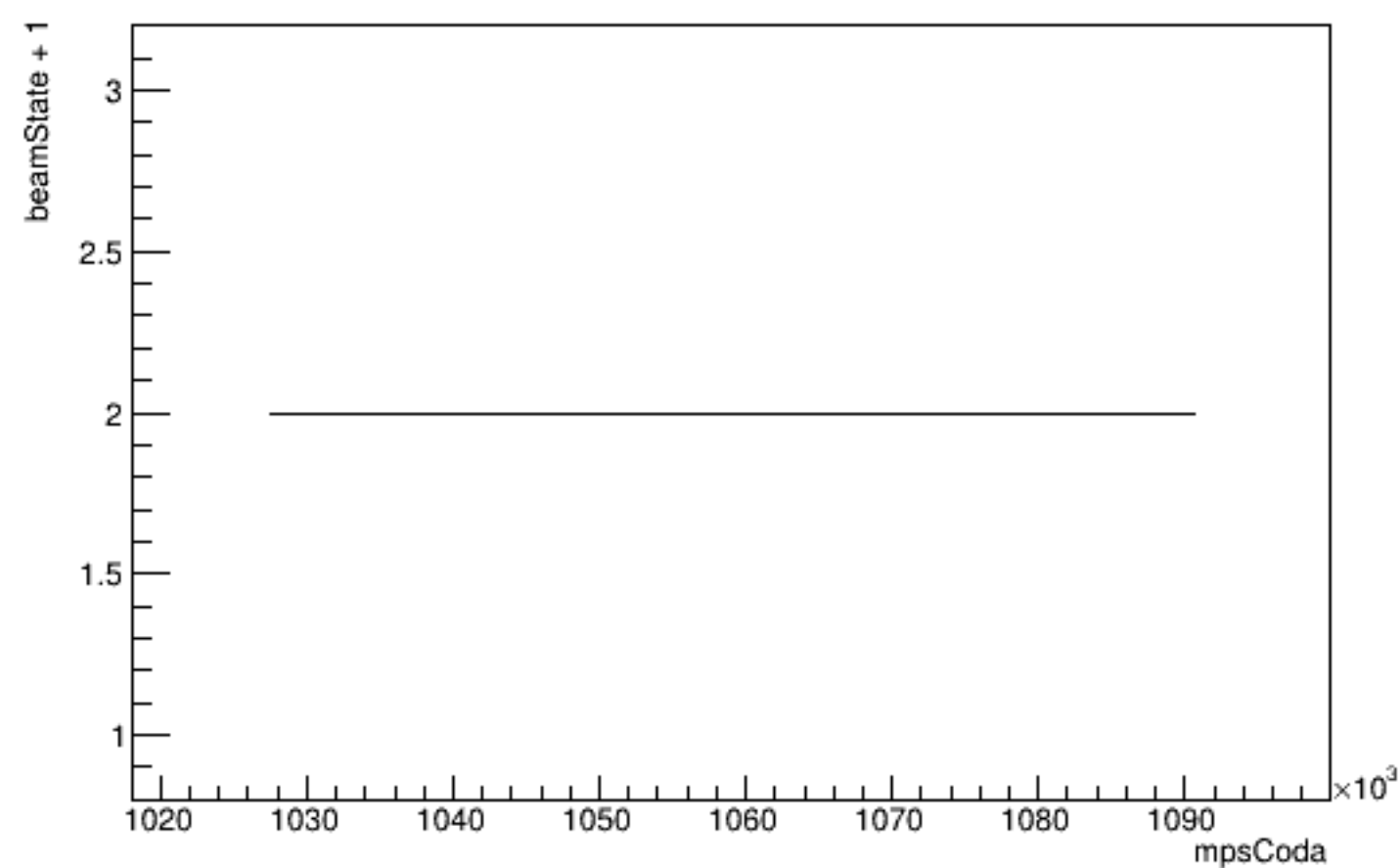
Acc0/NAcc0:mpsCoda (mpsCoda>=1027585 && mpsCoda<=1090672 && beamState==1)



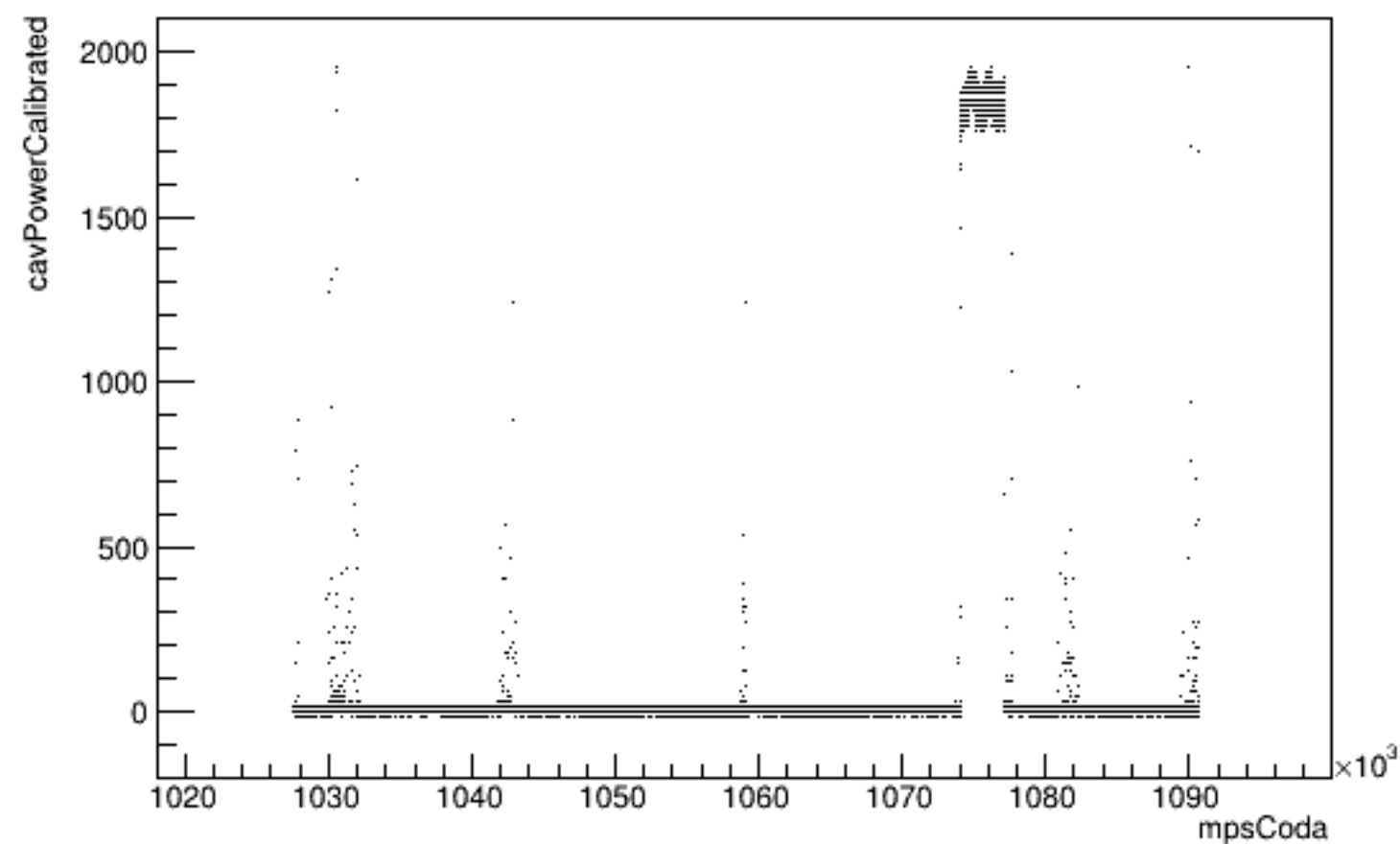
laserState:mpsCoda {mpsCoda&gt;=1027585 &amp;&amp; mpsCoda&lt;=1090672}



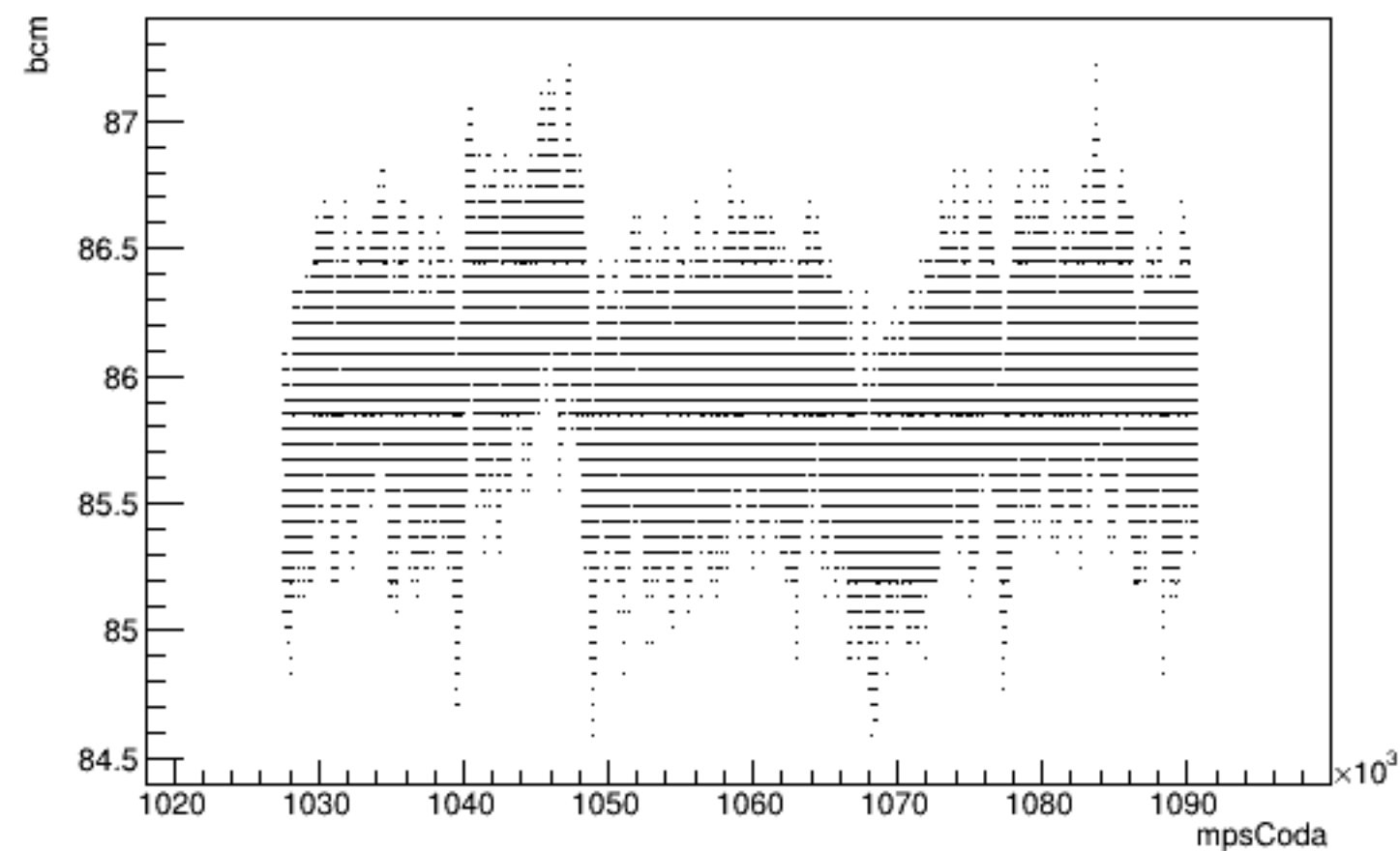
beamState + 1:mpsCoda {mpsCoda&gt;=1027585 &amp;&amp; mpsCoda&lt;=1090672}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1027585 &amp;&amp; mpsCoda&lt;=1090672}



bcm:mpsCoda {mpsCoda&gt;=1027585 &amp;&amp; mpsCoda&lt;=1090672}



## Cycle 19, Diffs

Entries: 1621

Mean: 0.1693 +/- 0.0079

Std Dev: 0.3166 +/- 0.0056

Entries: 902

Mean: 0.2822 +/- 0.0116

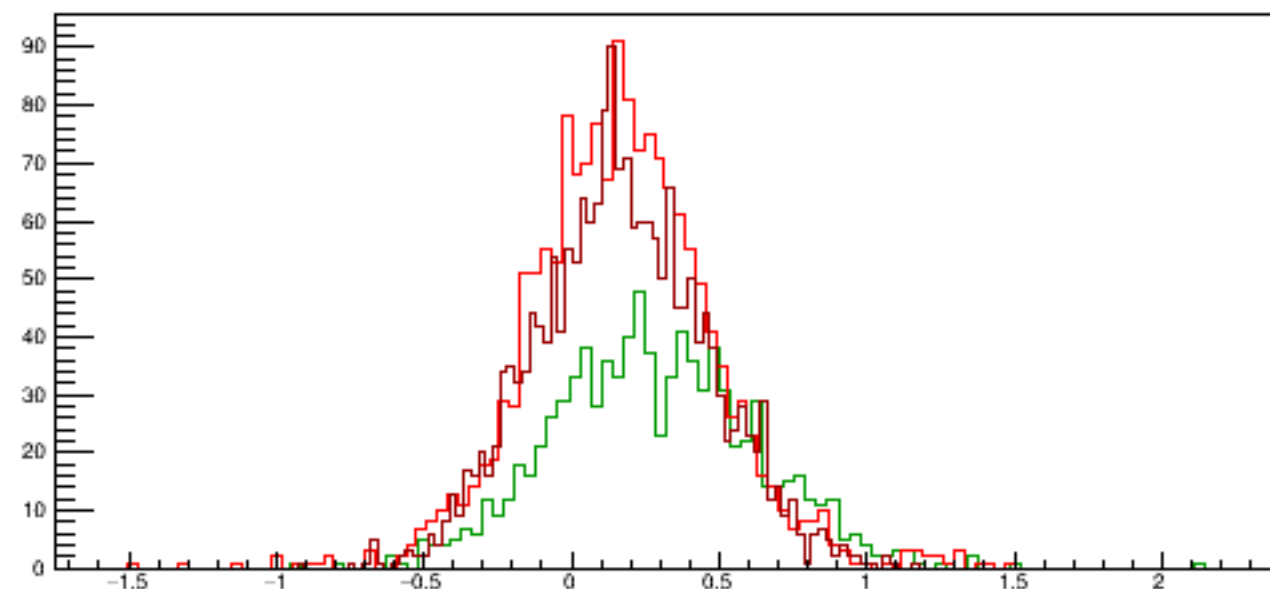
Std Dev: 0.3485 +/- 0.0082

Entries: 1985

Mean: 0.1683 +/- 0.0066

Std Dev: 0.2922 +/- 0.0046

Run 4591 quartetwise, Diffs



## Cycle 19, Sums

Entries: 1621

Mean: 11.9782 +/- 0.0798

Std Dev: 3.2133 +/- 0.0564

Entries: 902

Mean: 19.3718 +/- 0.0951

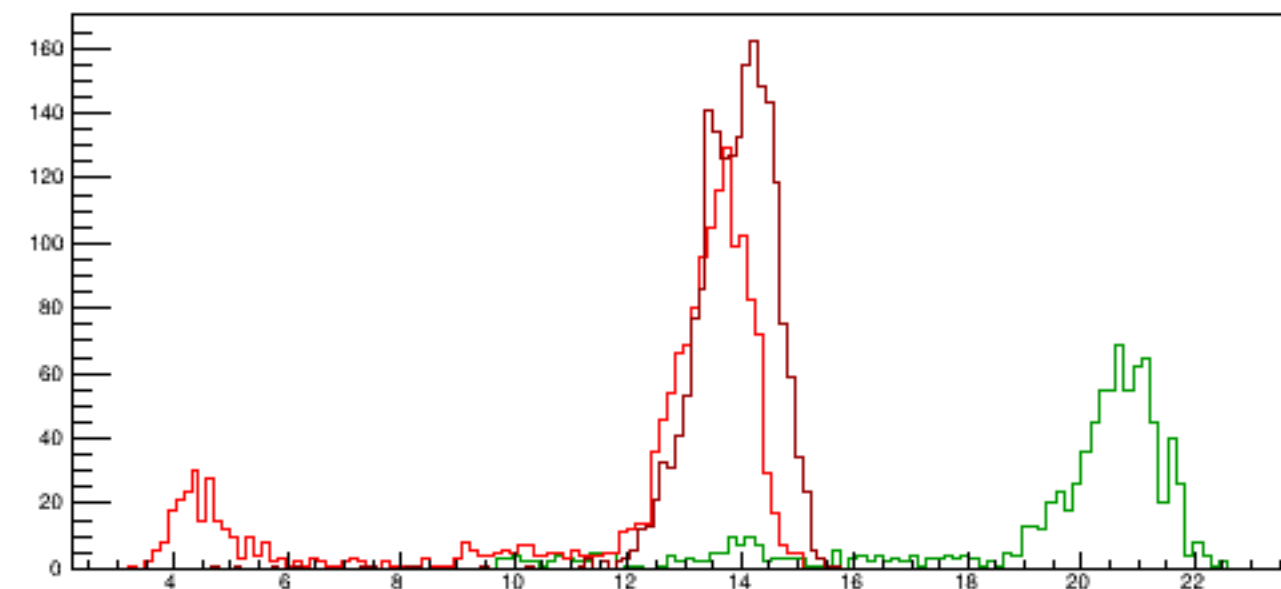
Std Dev: 2.8548 +/- 0.0672

Entries: 1985

Mean: 13.8732 +/- 0.0183

Std Dev: 0.8162 +/- 0.0130

Run 4591 quartetwise, Sums



## Cycle 19, Asyms

Entries: 1621

Mean: 0.0263 +/- 0.0012

Std Dev: 0.0491 +/- 0.0009

Entries: 902

Mean: 0.0655 +/- 0.0176

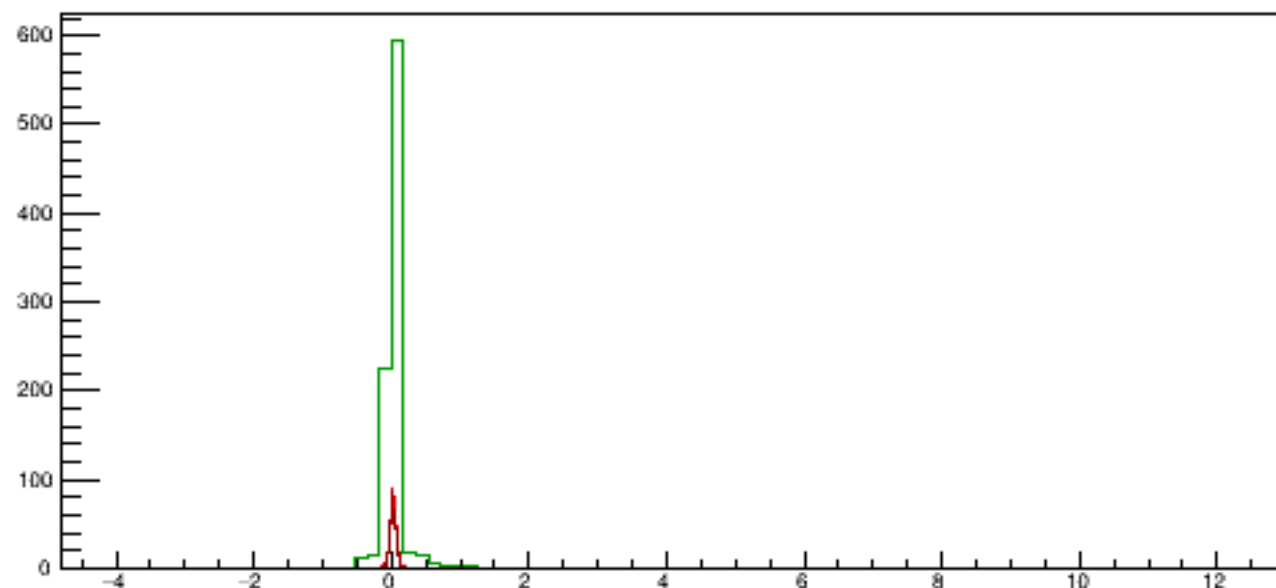
Std Dev: 0.5299 +/- 0.0125

Entries: 1985

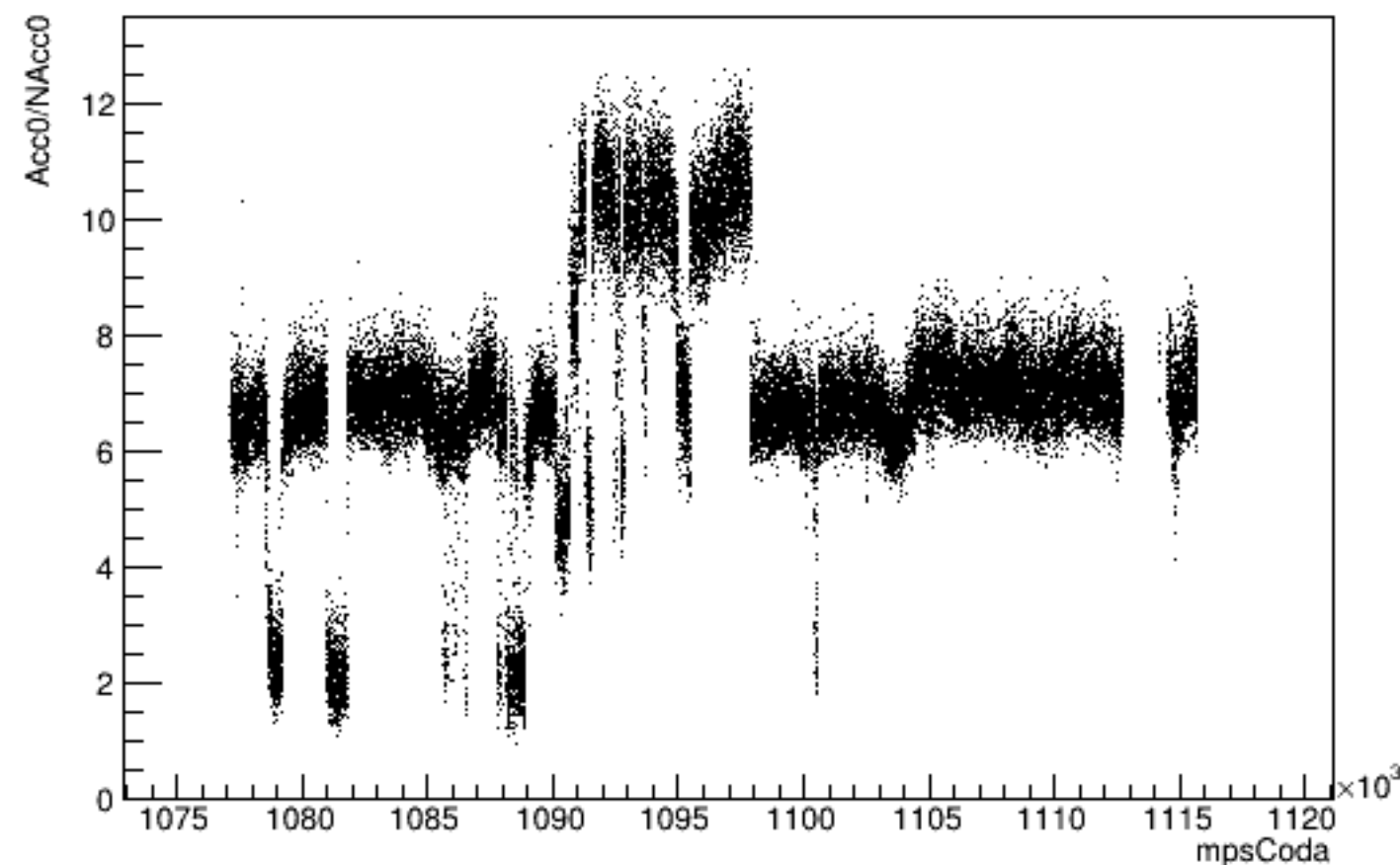
Mean: 0.0261 +/- 0.0010

Std Dev: 0.0453 +/- 0.0007

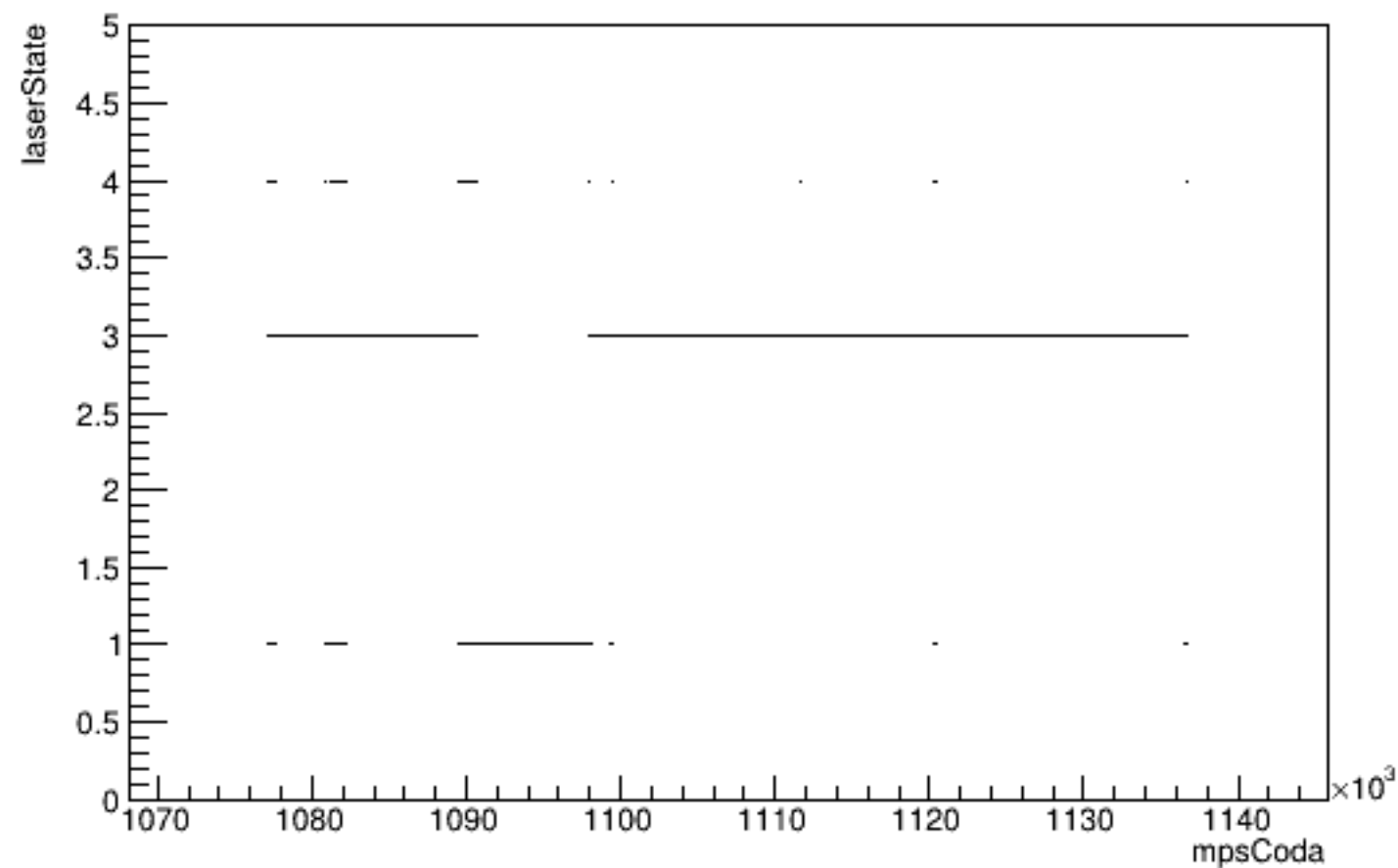
Run 4591 quartetwise, Asyms



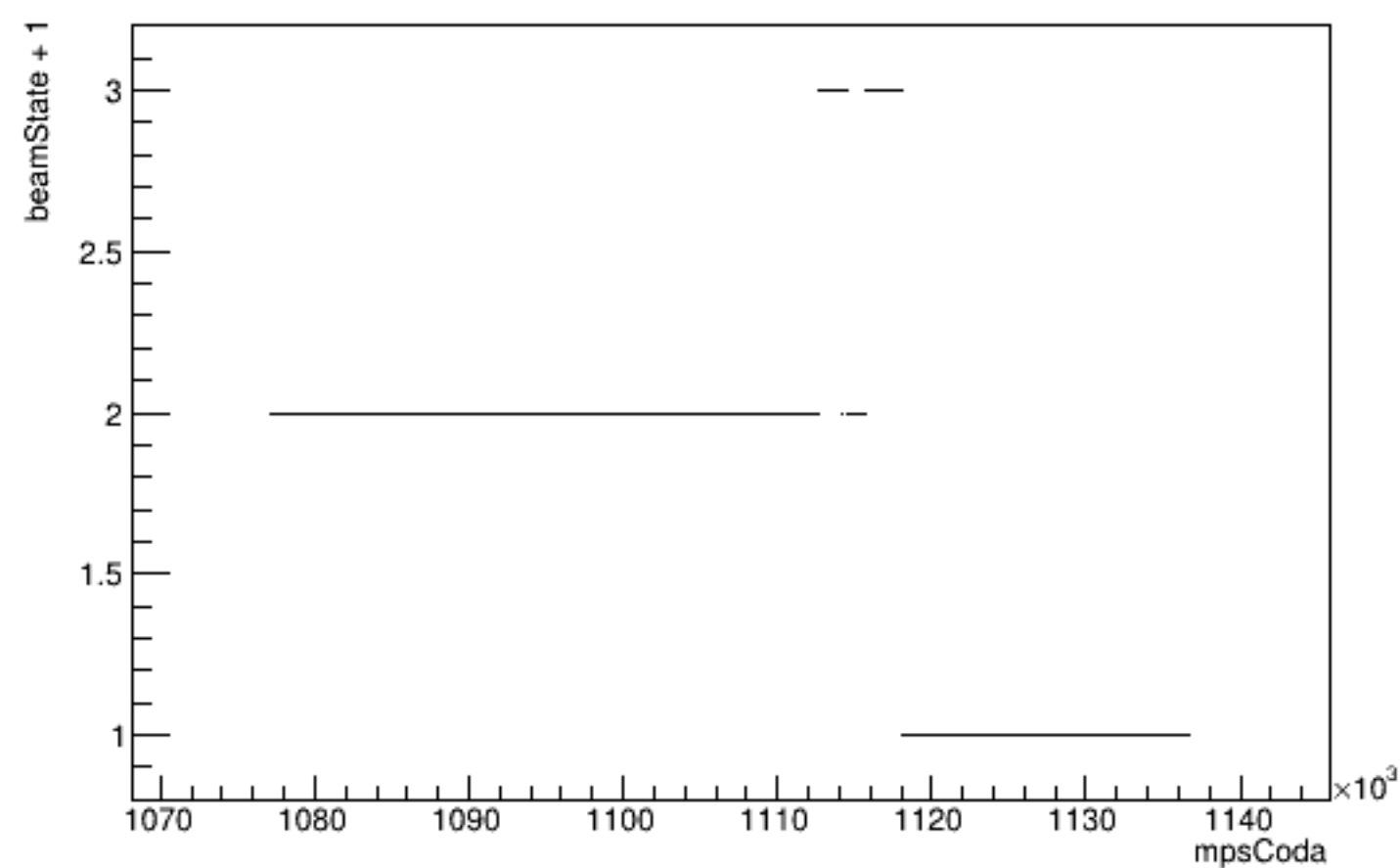
Acc0/NAcc0:mpsCoda (mpsCoda>=1077121 && mpsCoda<=1136744 && beamState==1)



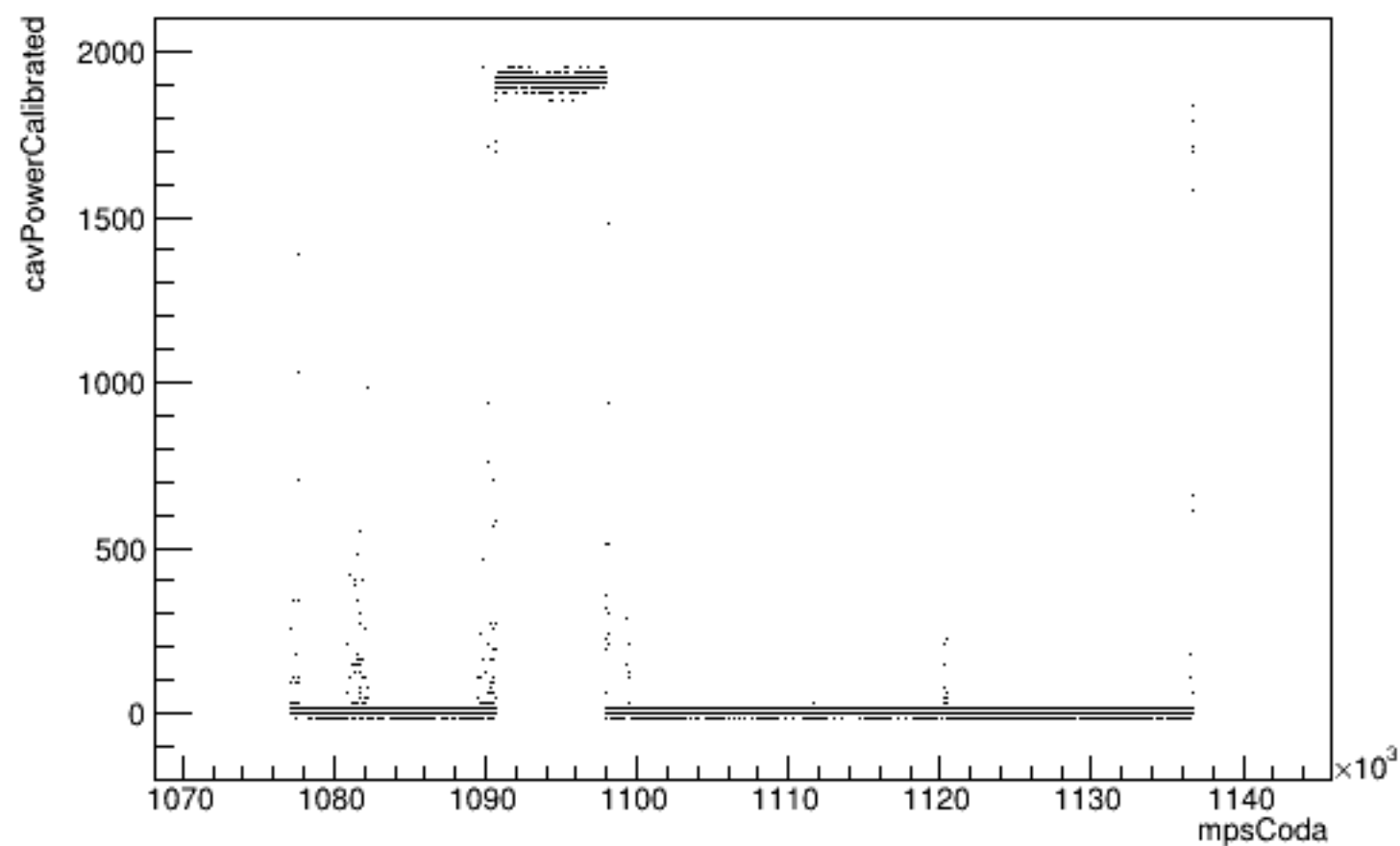
laserState:mpsCoda {mpsCoda&gt;=1077121 &amp;&amp; mpsCoda&lt;=1136744}



beamState + 1:mpsCoda {mpsCoda&gt;=1077121 &amp;&amp; mpsCoda&lt;=1136744}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1077121 &amp;&amp; mpsCoda&lt;=1136744}



bcm:mpsCoda {mpsCoda&gt;=1077121 &amp;&amp; mpsCoda&lt;=1136744}

