

## Cycle 1, Diffs

Entries: 2062

Mean: 0.0646 +/- 0.0083

Std Dev: 0.3769 +/- 0.0059

Entries: 4569

Mean: -0.0263 +/- 0.0061

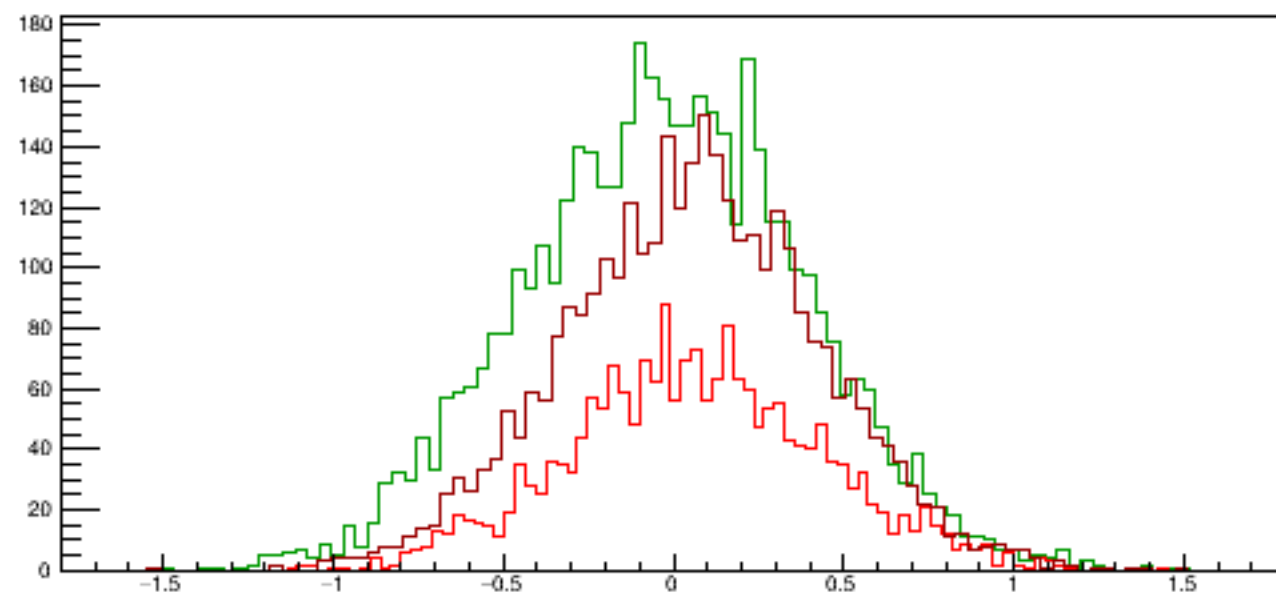
Std Dev: 0.4126 +/- 0.0043

Entries: 3345

Mean: 0.0547 +/- 0.0065

Std Dev: 0.3746 +/- 0.0046

Run 4460 quartetwise, Diffs



## Cycle 1, Sums

Entries: 2062

Mean: 17.6066 +/- 0.0125

Std Dev: 0.5677 +/- 0.0088

Entries: 4569

Mean: 23.3849 +/- 0.0110

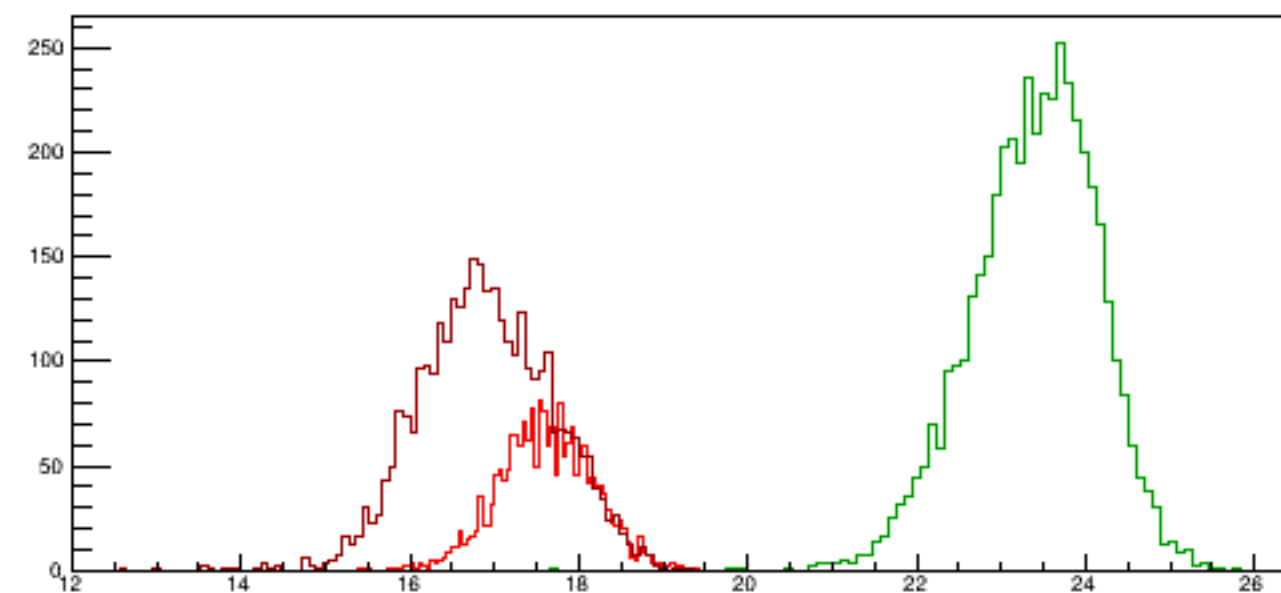
Std Dev: 0.7464 +/- 0.0078

Entries: 3345

Mean: 16.9027 +/- 0.0136

Std Dev: 0.7876 +/- 0.0096

Run 4460 quartetwise, Sums



## Cycle 1, Asyms

Entries: 2062

Mean: 0.0105 +/- 0.0014

Std Dev: 0.0615 +/- 0.0010

Entries: 4569

Mean: -0.0041 +/- 0.0011

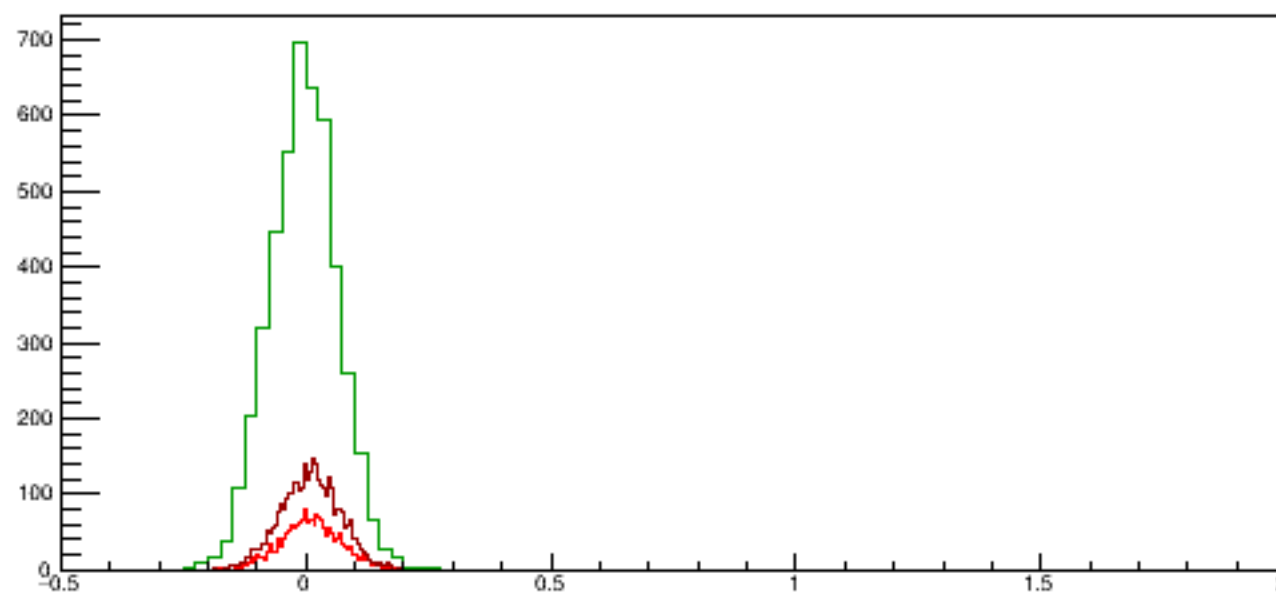
Std Dev: 0.0737 +/- 0.0008

Entries: 3345

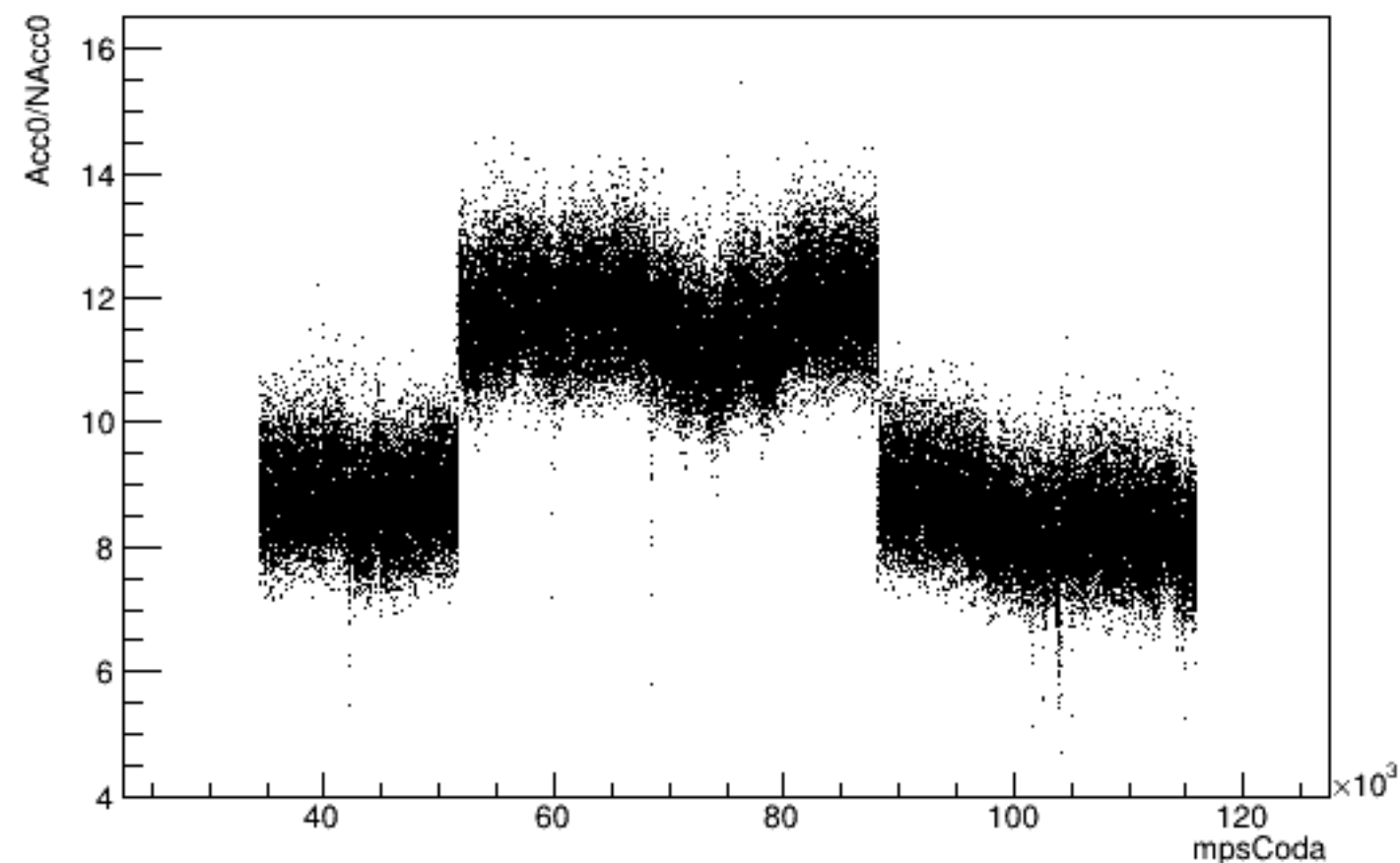
Mean: 0.0089 +/- 0.0011

Std Dev: 0.0611 +/- 0.0007

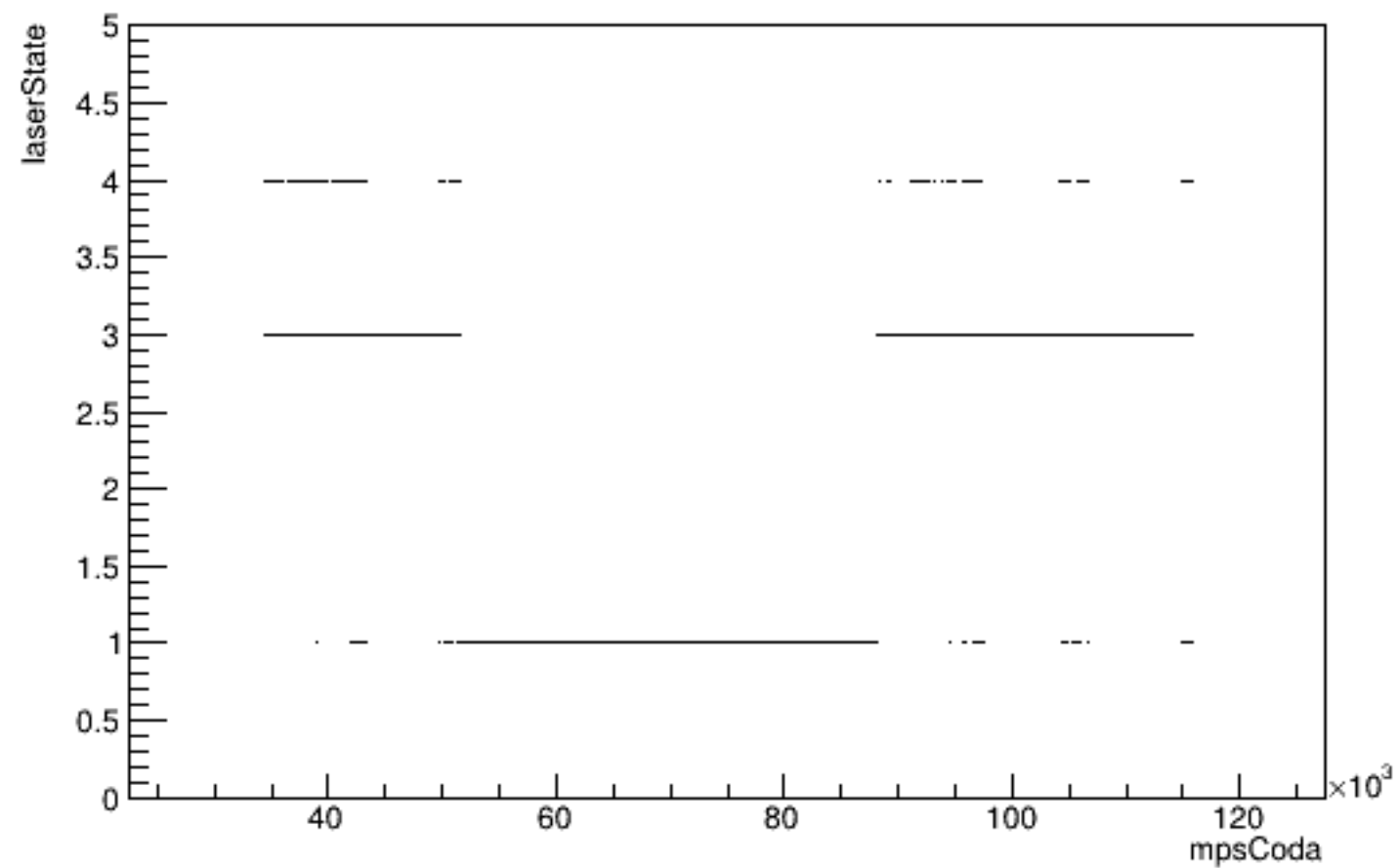
Run 4460 quartetwise, Asyms



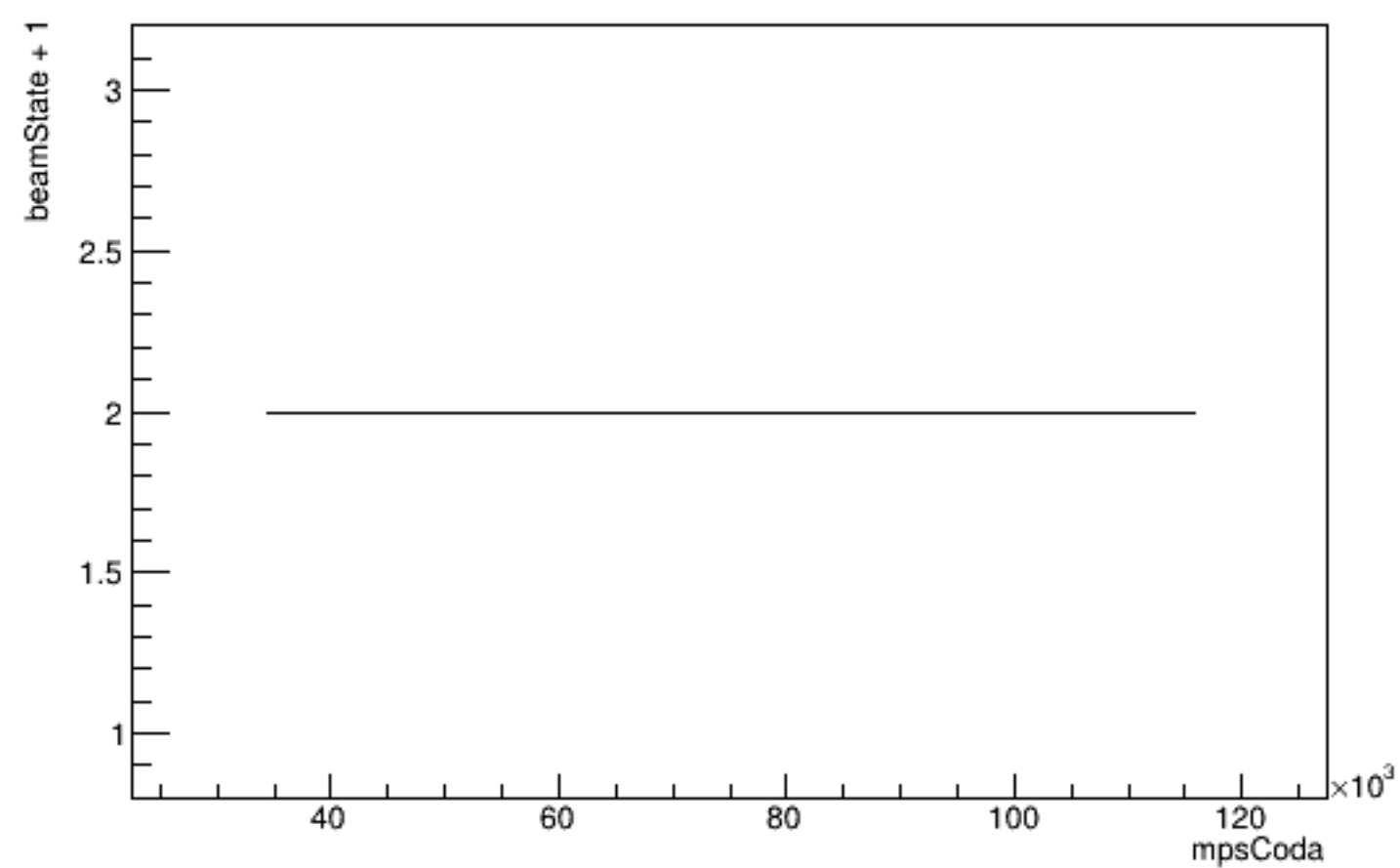
Acc0/NAcc0:mpsCoda {mpsCoda>=34332 && mpsCoda<=115851 && beamState==1}



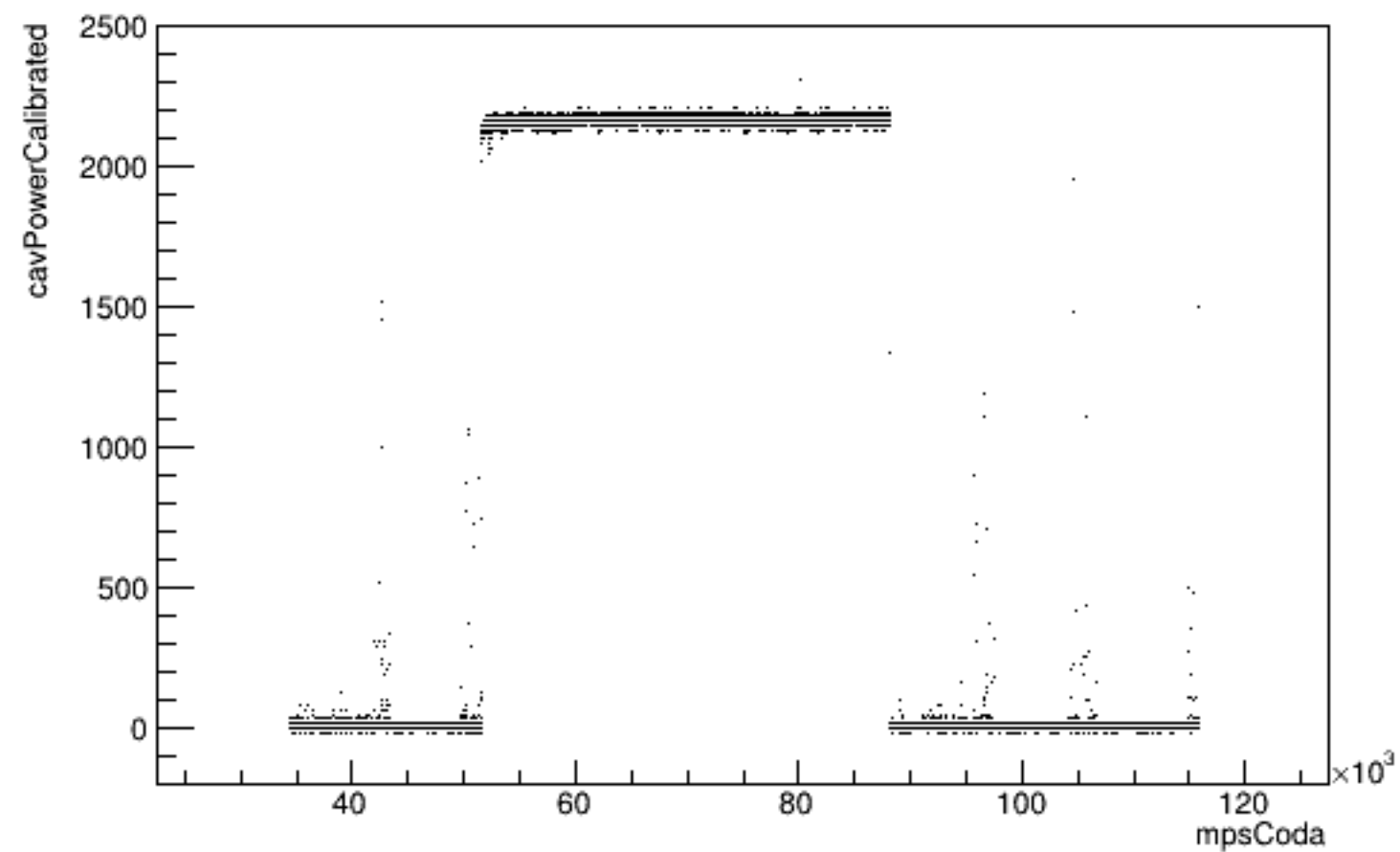
laserState:mpsCoda {mpsCoda&gt;=34332 &amp;&amp; mpsCoda&lt;=115851}



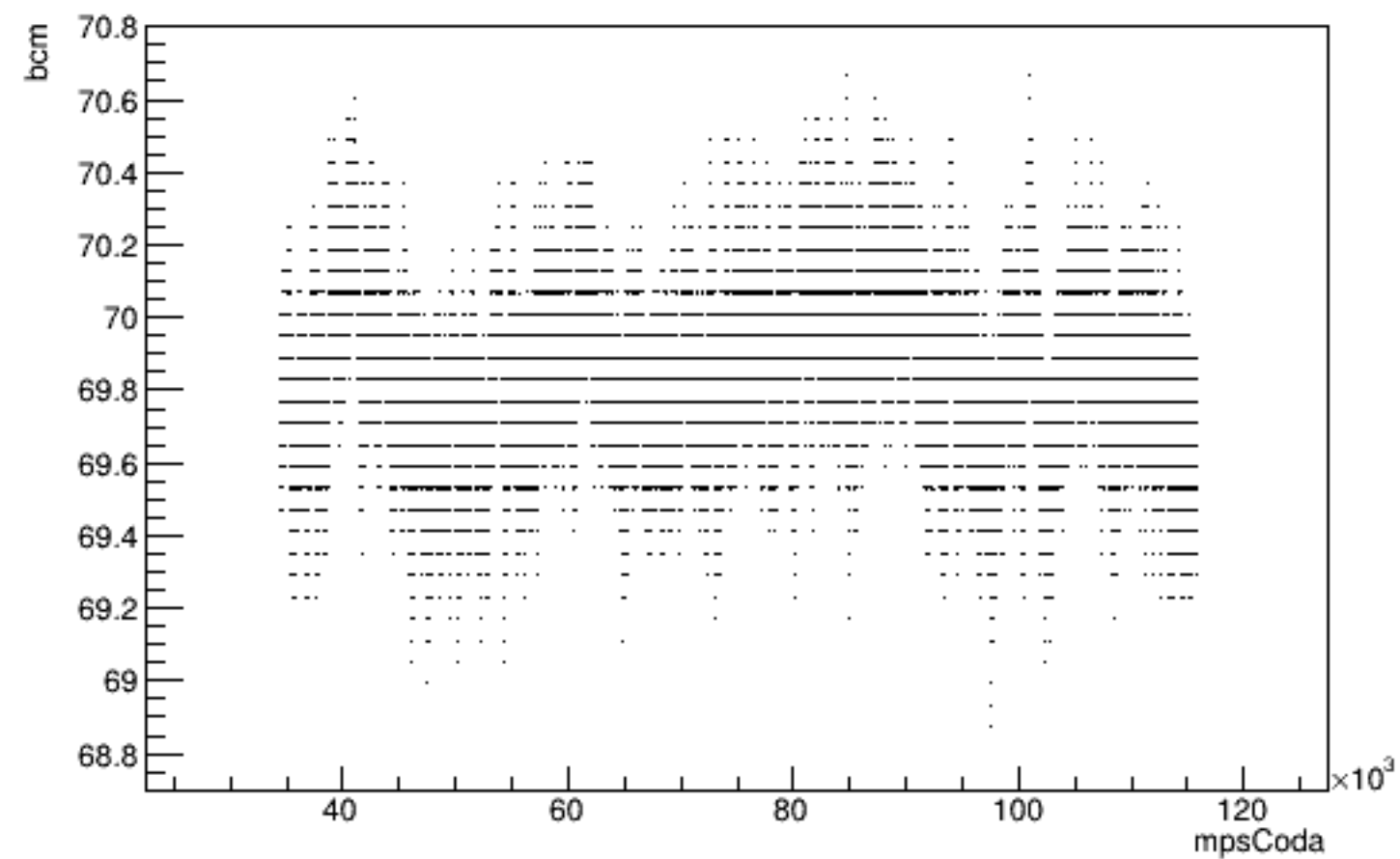
beamState + 1:mpsCoda {mpsCoda&gt;=34332 &amp;&amp; mpsCoda&lt;=115851}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=34332 &amp;&amp; mpsCoda&lt;=115851}



bcm:mpsCoda {mpsCoda&gt;=34332 &amp;&amp; mpsCoda&lt;=115851}



## Cycle 2, Diffs

Entries: 3345

Mean: 0.0547 +/- 0.0065

Std Dev: 0.3746 +/- 0.0046

Entries: 4678

Mean: -0.0250 +/- 0.0059

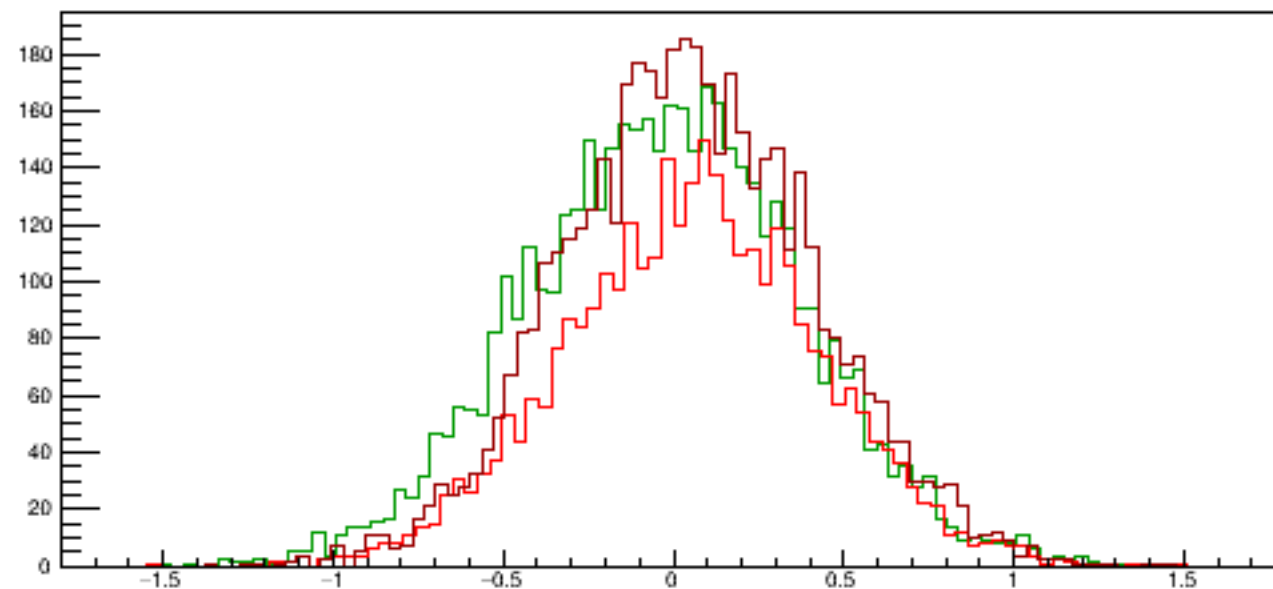
Std Dev: 0.4045 +/- 0.0042

Entries: 4756

Mean: 0.0484 +/- 0.0054

Std Dev: 0.3718 +/- 0.0038

Run 4460 quartetwise, Diffs



## Cycle 2, Sums

Entries: 3345

Mean: 16.9027 +/- 0.0136

Std Dev: 0.7876 +/- 0.0096

Entries: 4678

Mean: 22.7873 +/- 0.0102

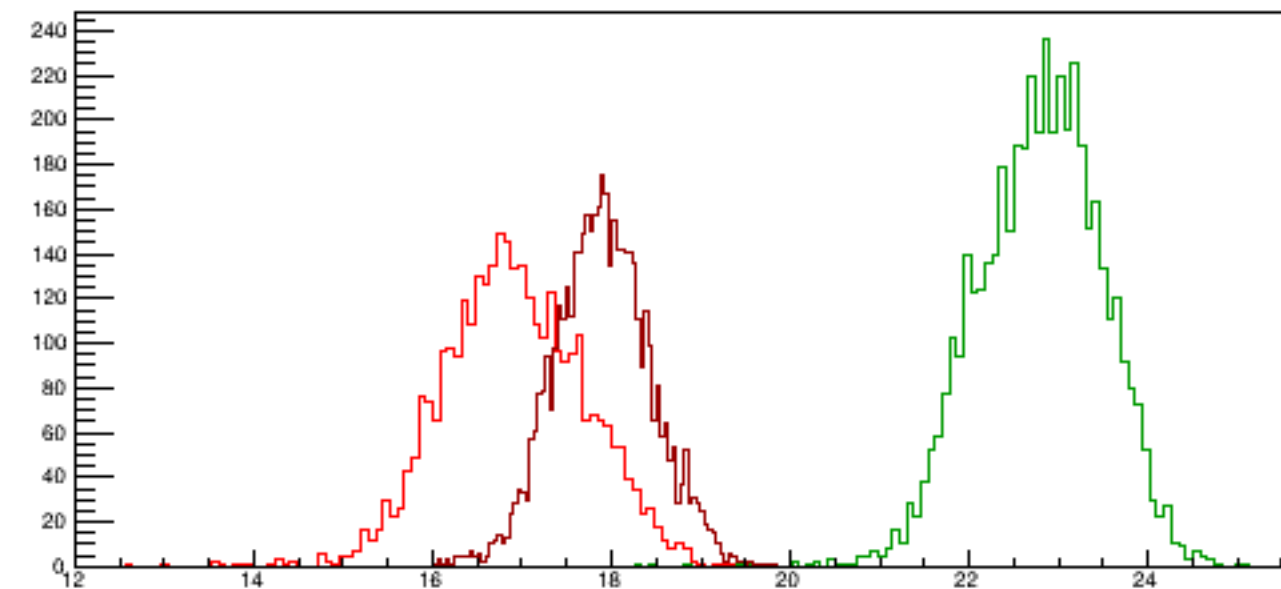
Std Dev: 0.6984 +/- 0.0072

Entries: 4756

Mean: 17.9024 +/- 0.0078

Std Dev: 0.5387 +/- 0.0055

Run 4460 quartetwise, Sums



## Cycle 2, Asyms

Entries: 3345

Mean: 0.0102 +/- 0.0012

Std Dev: 0.0696 +/- 0.0009

Entries: 4678

Mean: -0.0047 +/- 0.0011

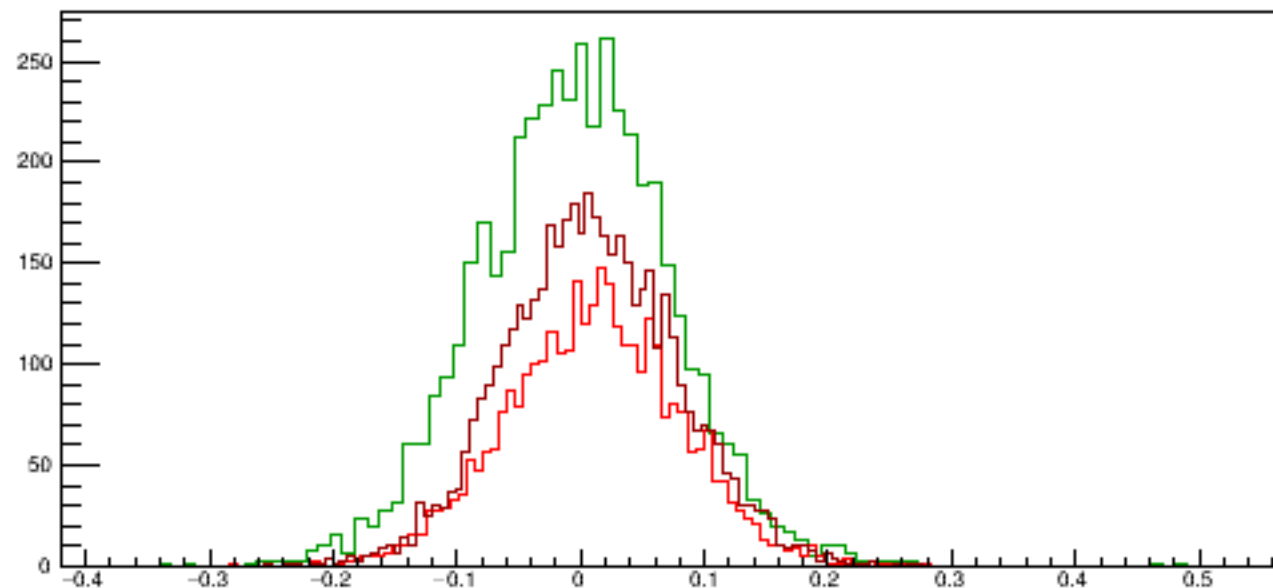
Std Dev: 0.0773 +/- 0.0008

Entries: 4756

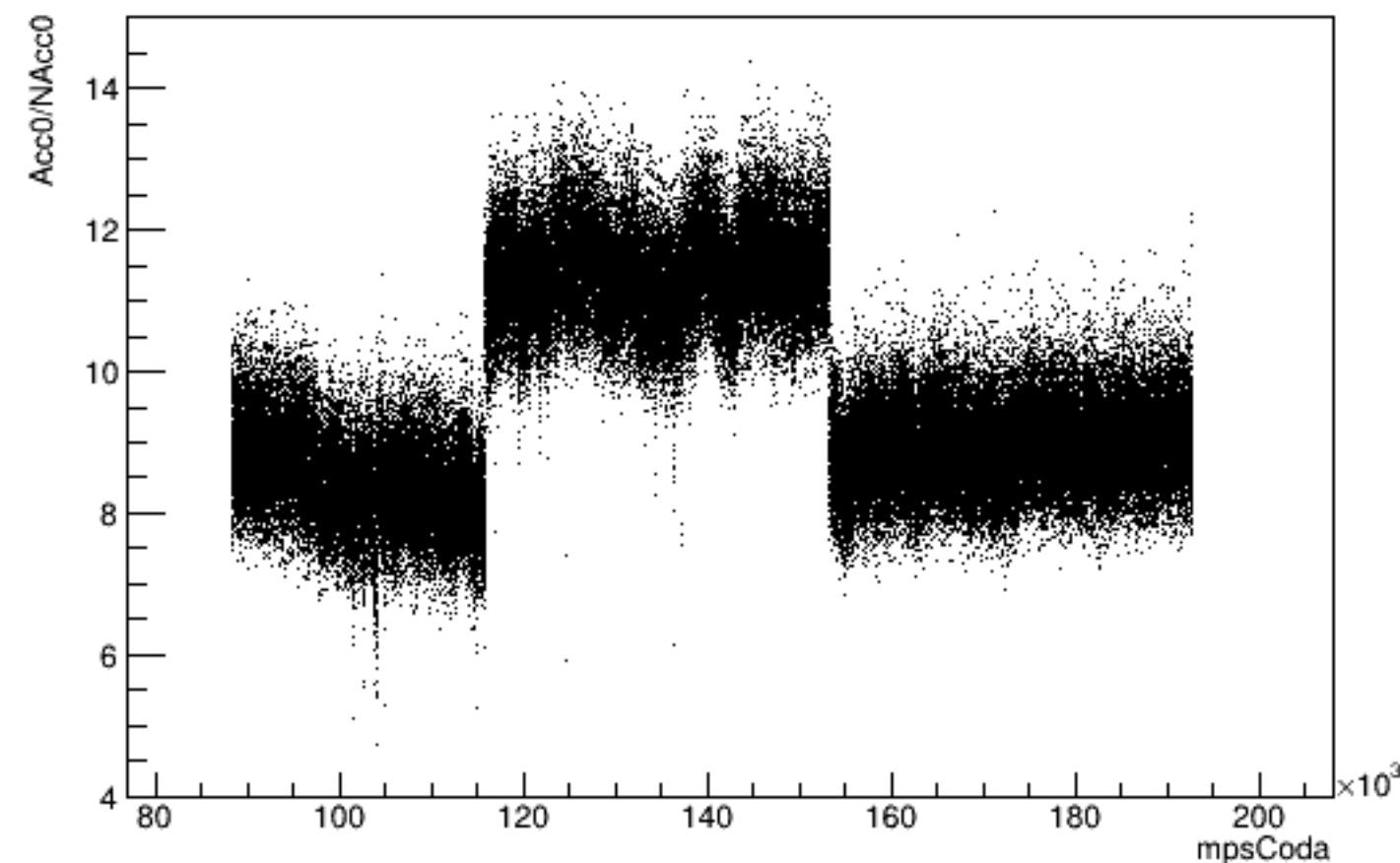
Mean: 0.0090 +/- 0.0010

Std Dev: 0.0690 +/- 0.0007

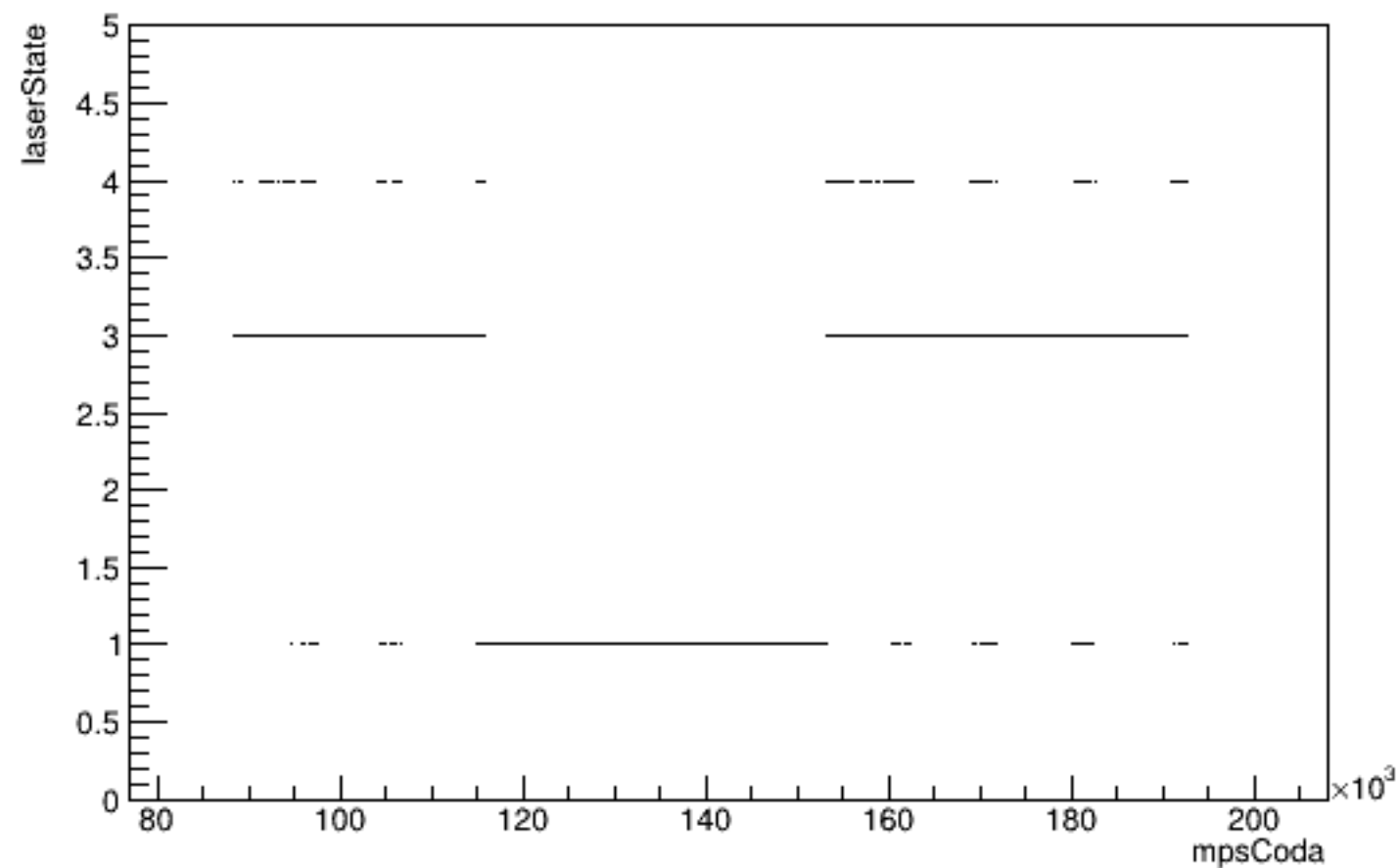
Run 4460 quartetwise, Asyms



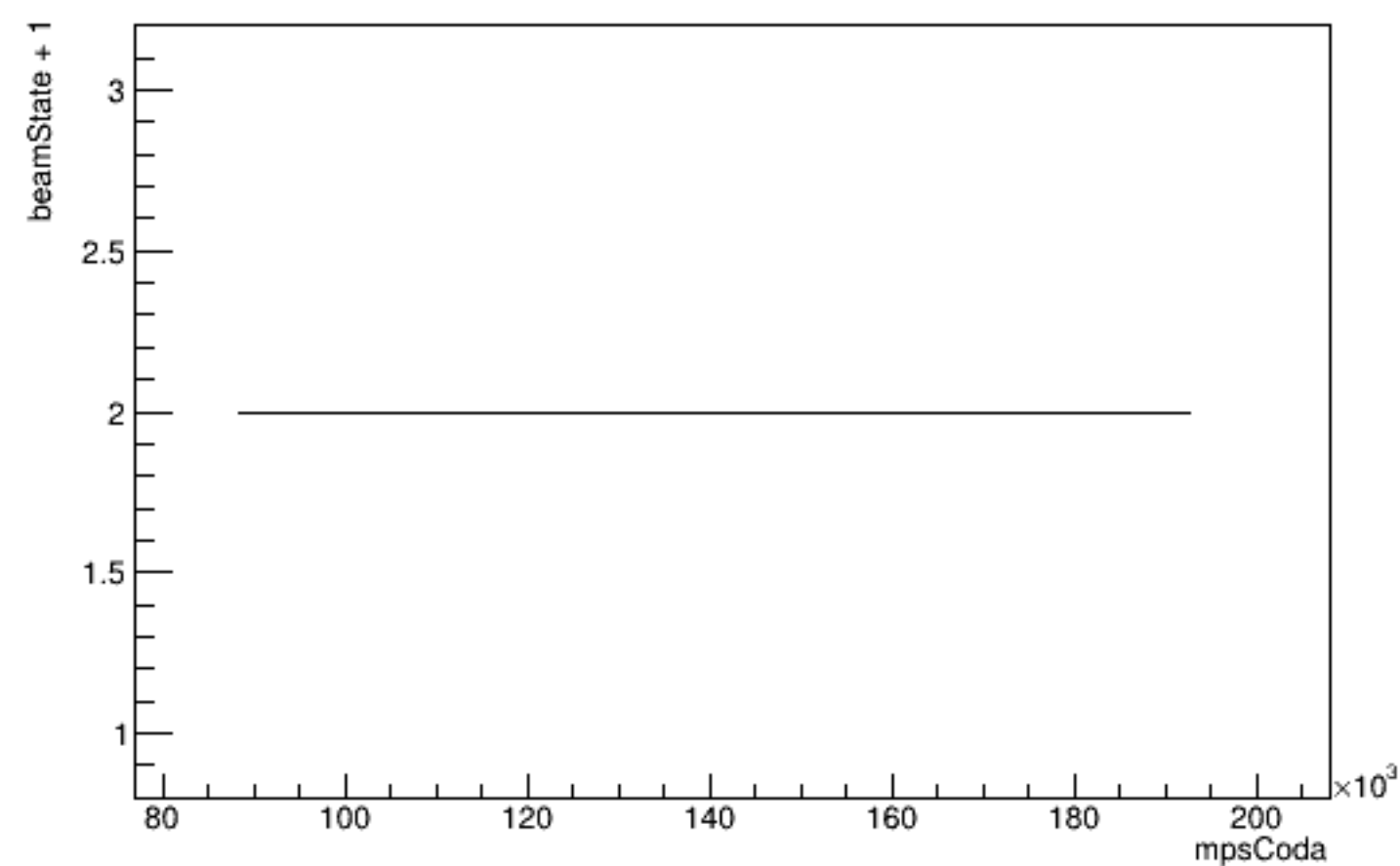
Acc0/NAcc0:mpsCoda {mpsCoda>=88228 && mpsCoda<=192763 && beamState==1}



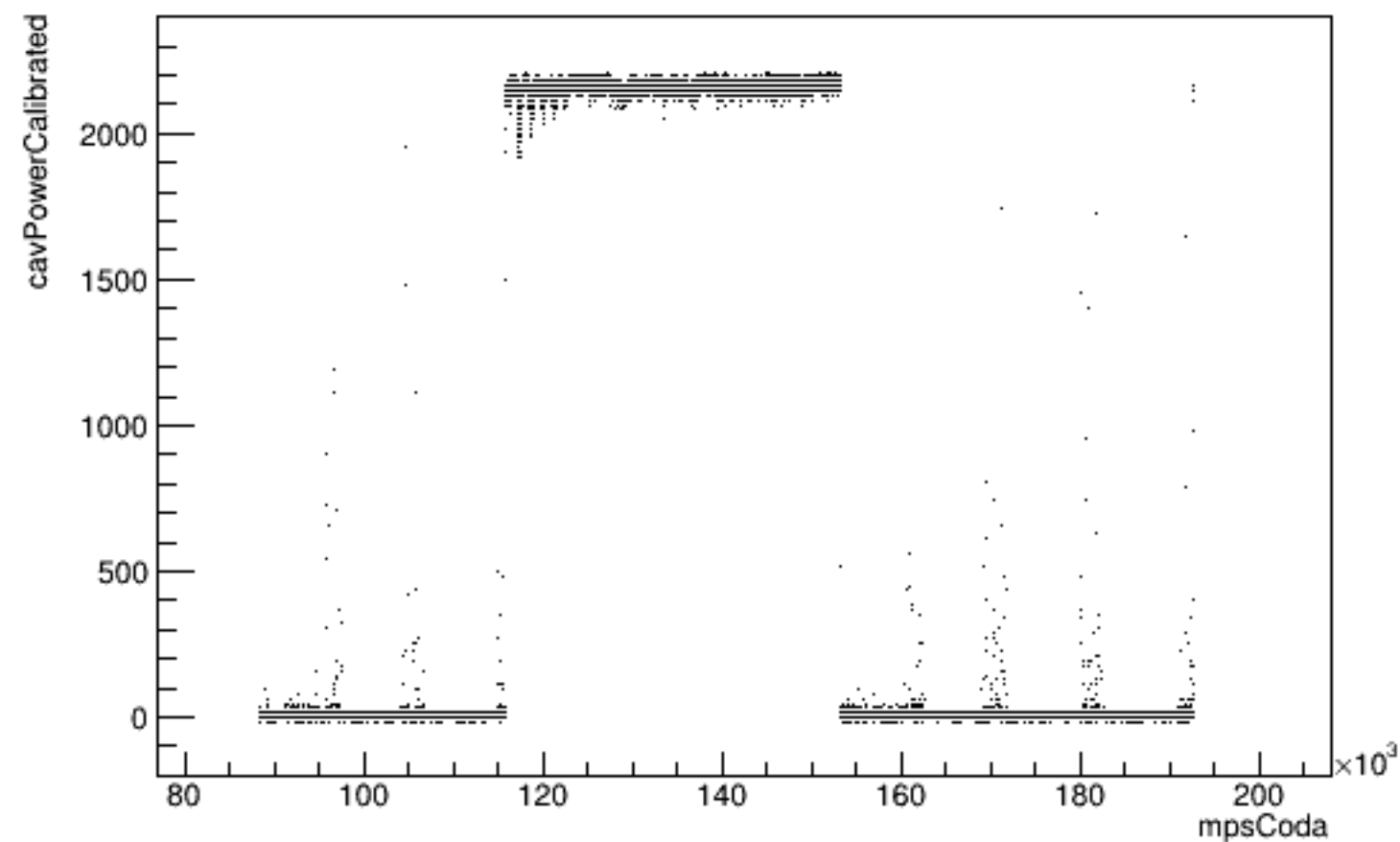
laserState:mpsCoda {mpsCoda&gt;=88228 &amp;&amp; mpsCoda&lt;=192763}



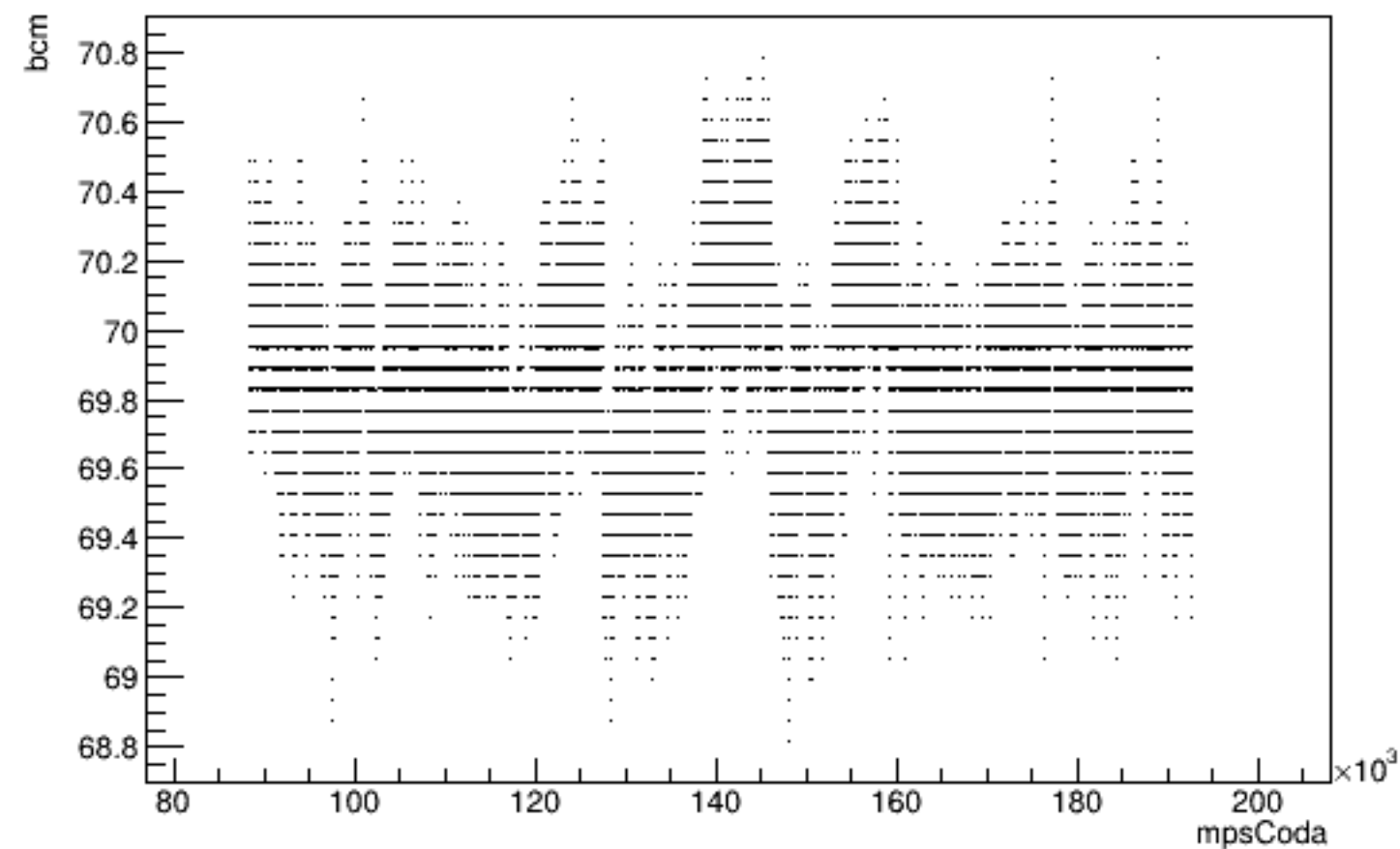
beamState + 1:mpsCoda {mpsCoda&gt;=88228 &amp;&amp; mpsCoda&lt;=192763}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=88228 &amp;&amp; mpsCoda&lt;=192763}



bcm:mpsCoda {mpsCoda&gt;=88228 &amp;&amp; mpsCoda&lt;=192763}



## Cycle 3, Diffs

Entries: 4756

Mean: 0.0484 +/- 0.0054

Std Dev: 0.3718 +/- 0.0038

Entries: 4652

Mean: -0.0462 +/- 0.0060

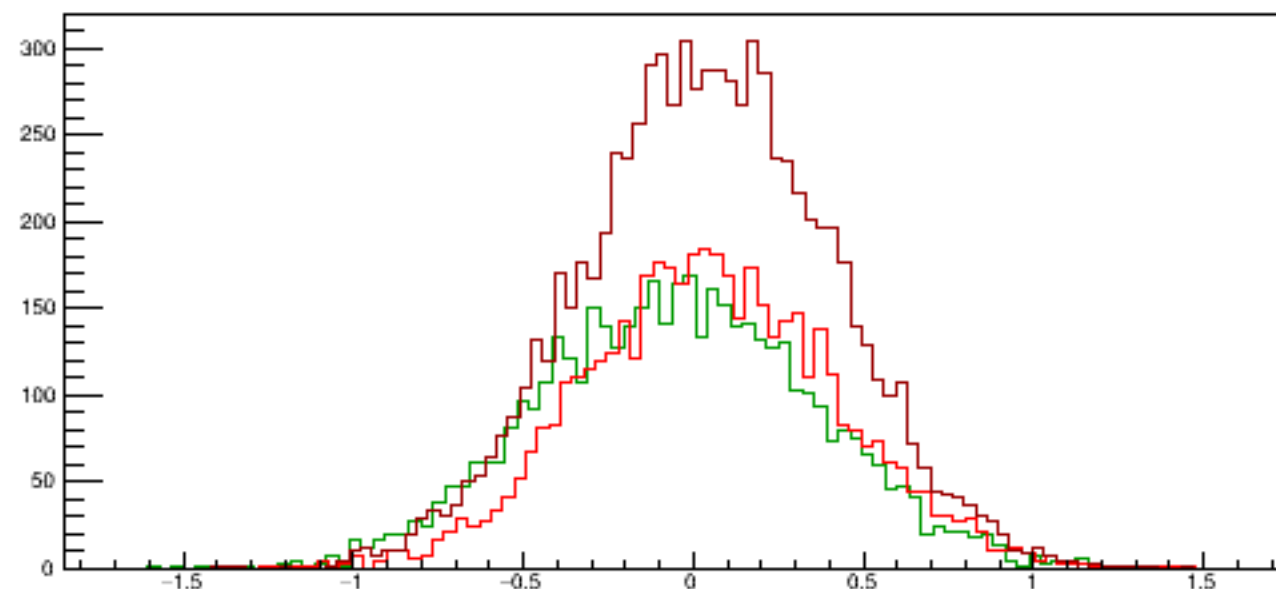
Std Dev: 0.4070 +/- 0.0042

Entries: 8112

Mean: 0.0408 +/- 0.0041

Std Dev: 0.3680 +/- 0.0029

Run 4460 quartetwise, Diffs



## Cycle 3, Sums

Entries: 4756

Mean: 17.9024 +/- 0.0078

Std Dev: 0.5387 +/- 0.0055

Entries: 4652

Mean: 23.3500 +/- 0.0109

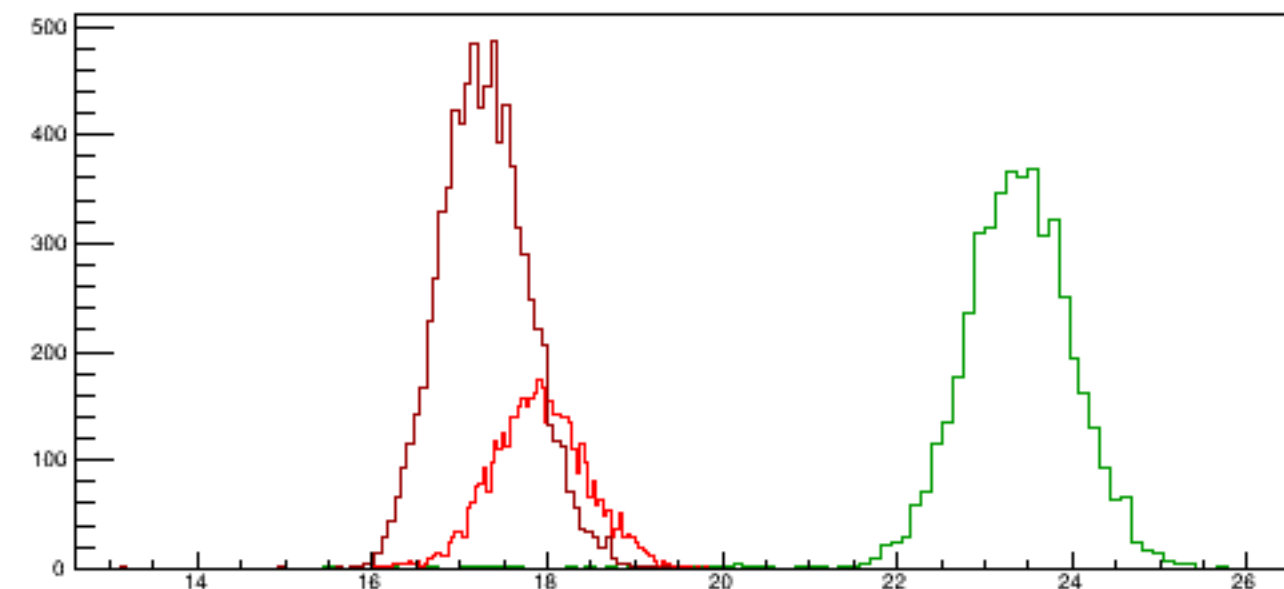
Std Dev: 0.7454 +/- 0.0077

Entries: 8112

Mean: 17.2893 +/- 0.0056

Std Dev: 0.5064 +/- 0.0040

Run 4460 quartetwise, Sums



## Cycle 3, Asyms

Entries: 4756

Mean: 0.0084 +/- 0.0009

Std Dev: 0.0646 +/- 0.0007

Entries: 4652

Mean: -0.0229 +/- 0.0135

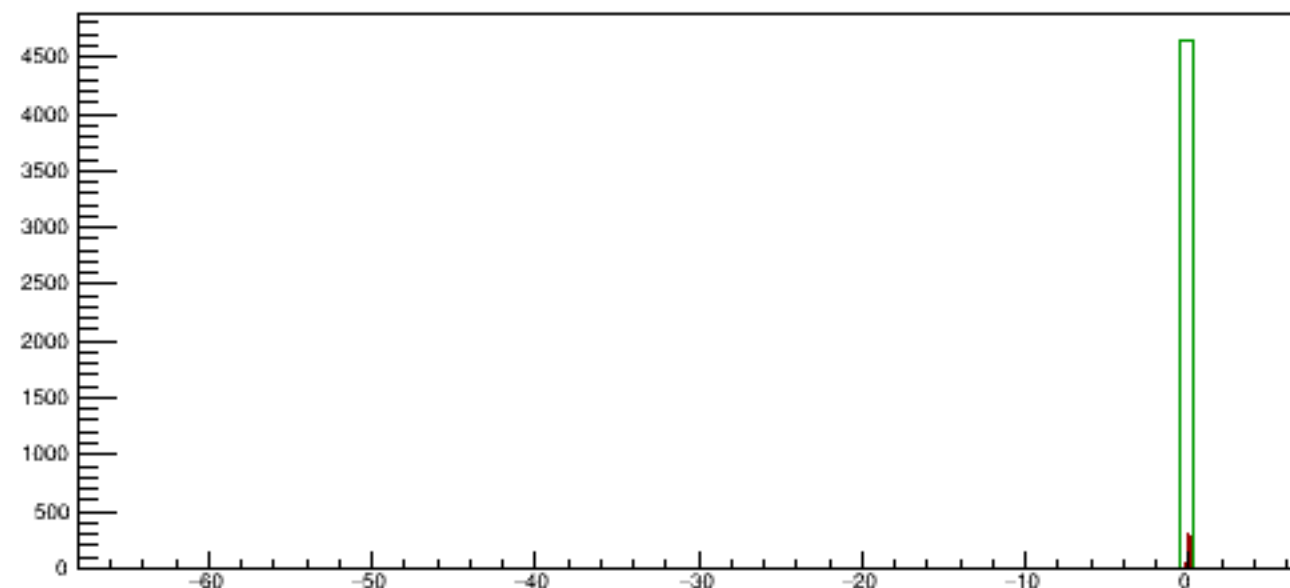
Std Dev: 0.9177 +/- 0.0095

Entries: 8112

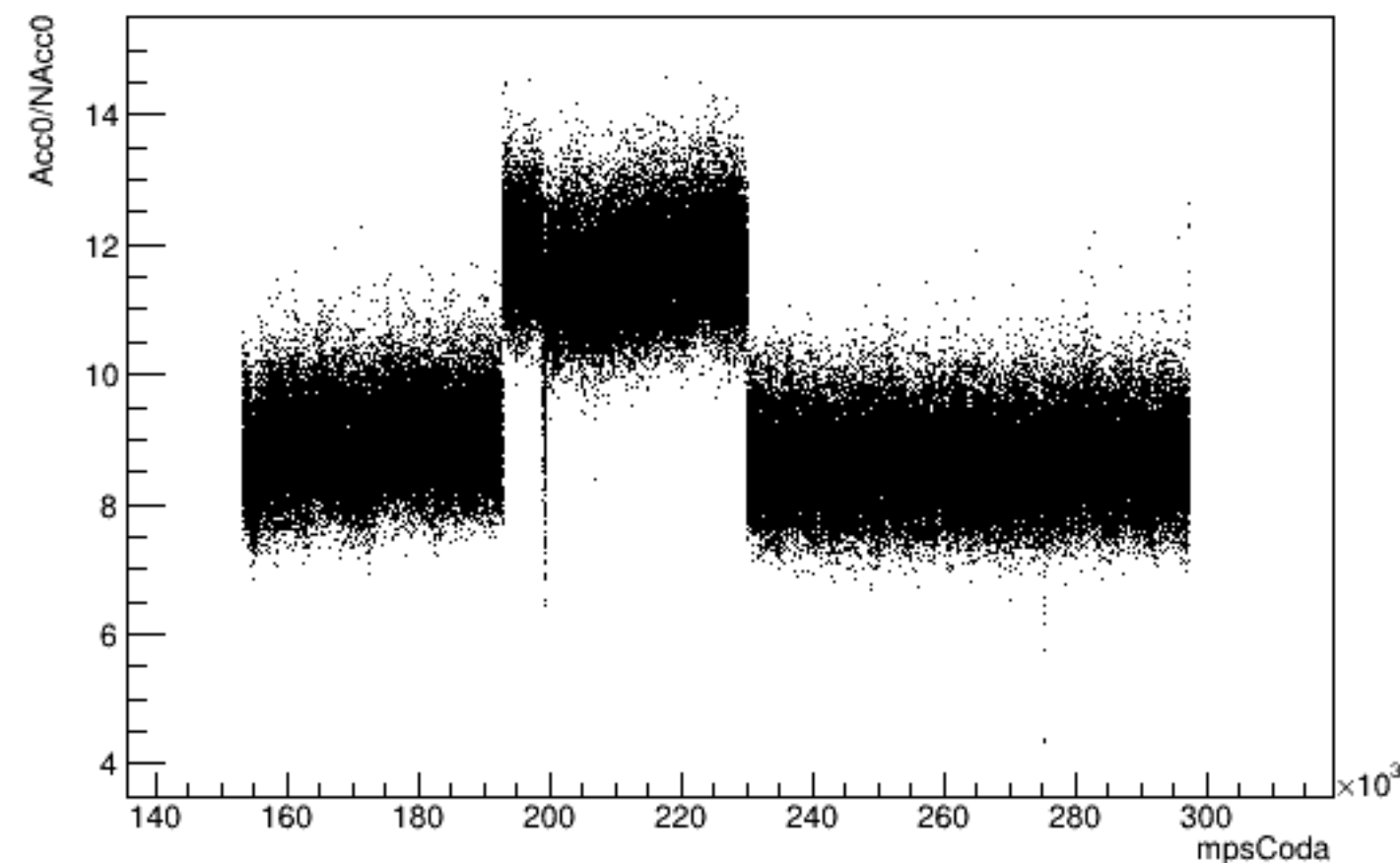
Mean: 0.0071 +/- 0.0007

Std Dev: 0.0639 +/- 0.0005

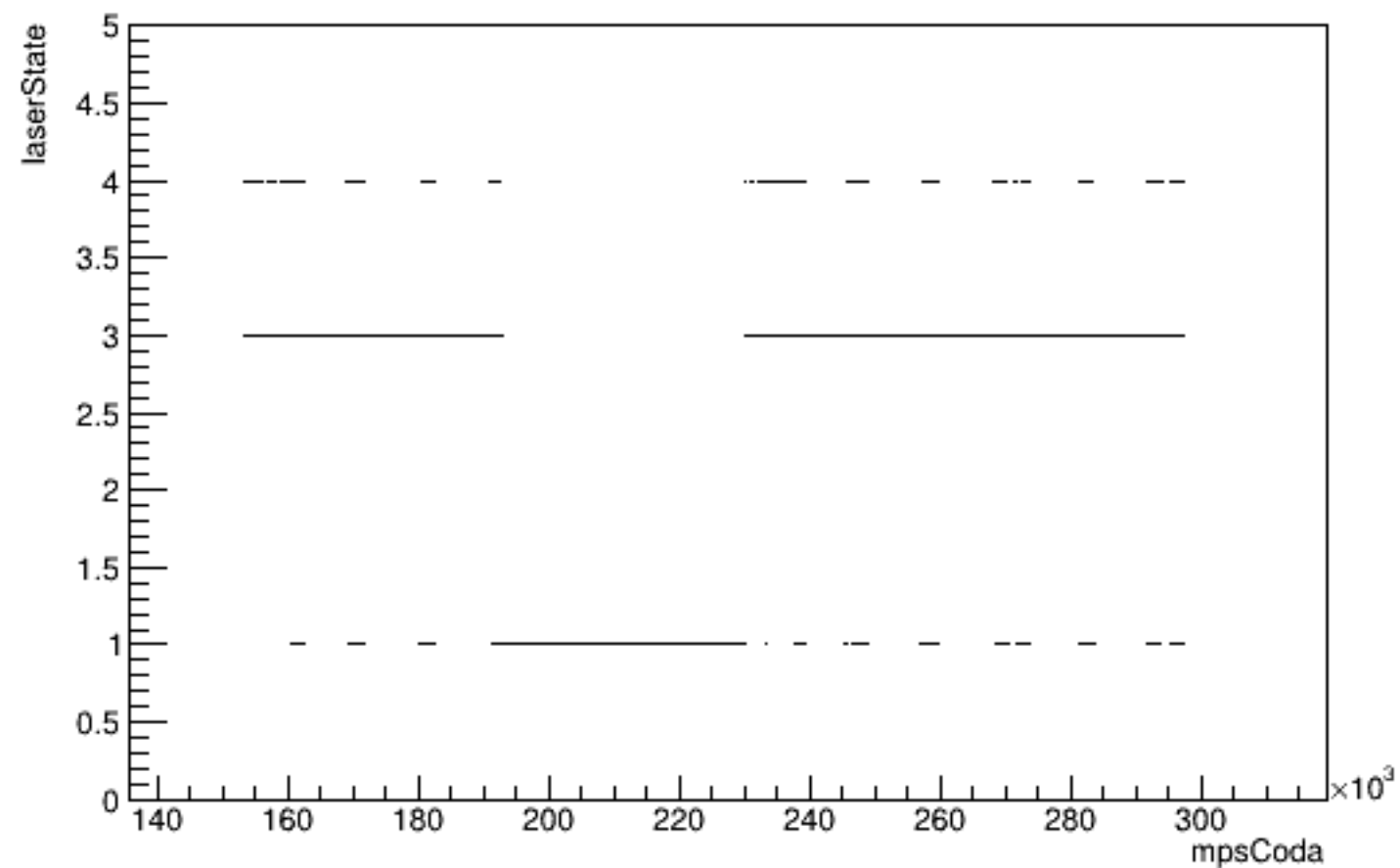
Run 4460 quartetwise, Asyms



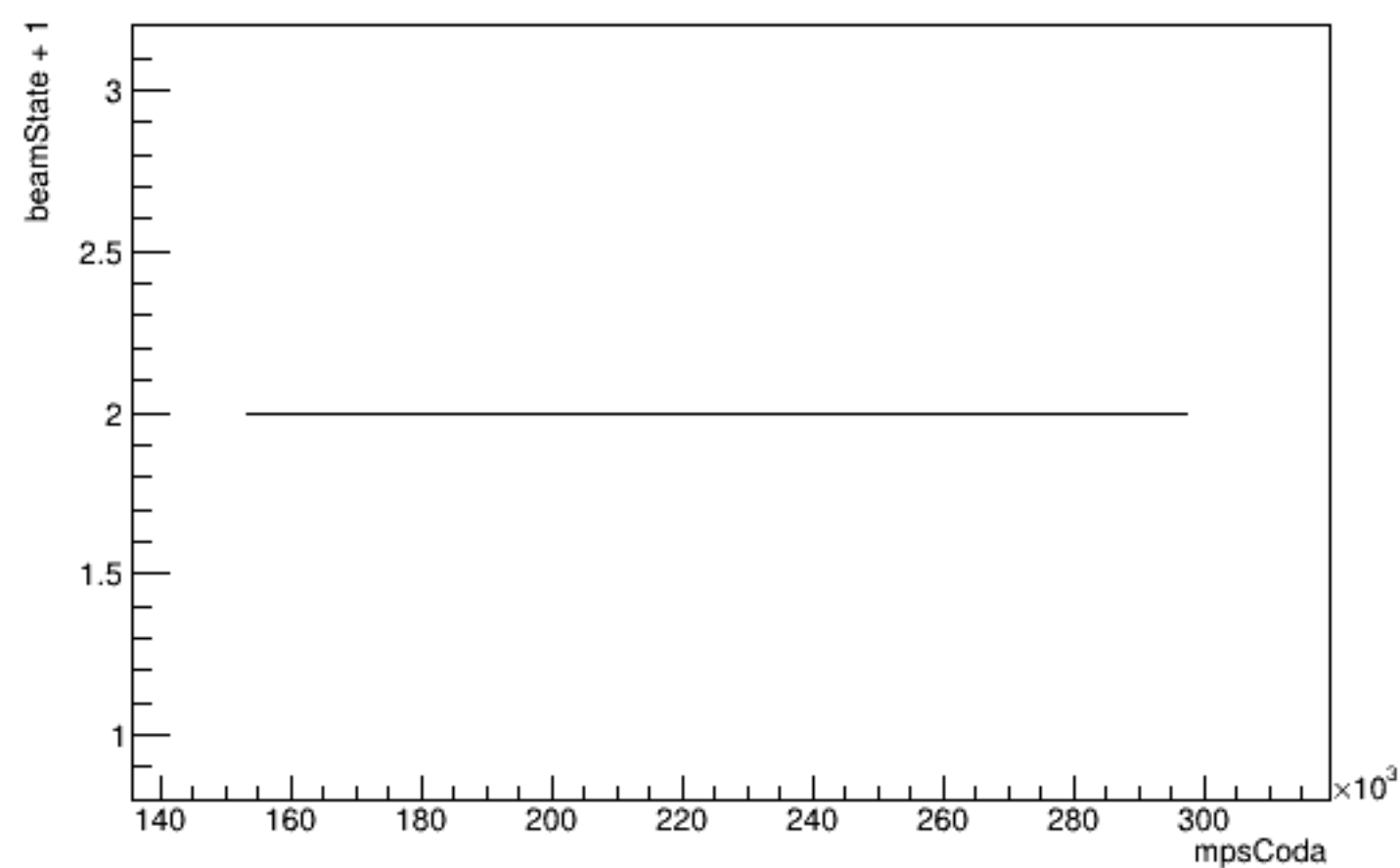
Acc0/NAcc0:mpsCoda (mpsCoda>=153284 && mpsCoda<=297283 && beamState==1)



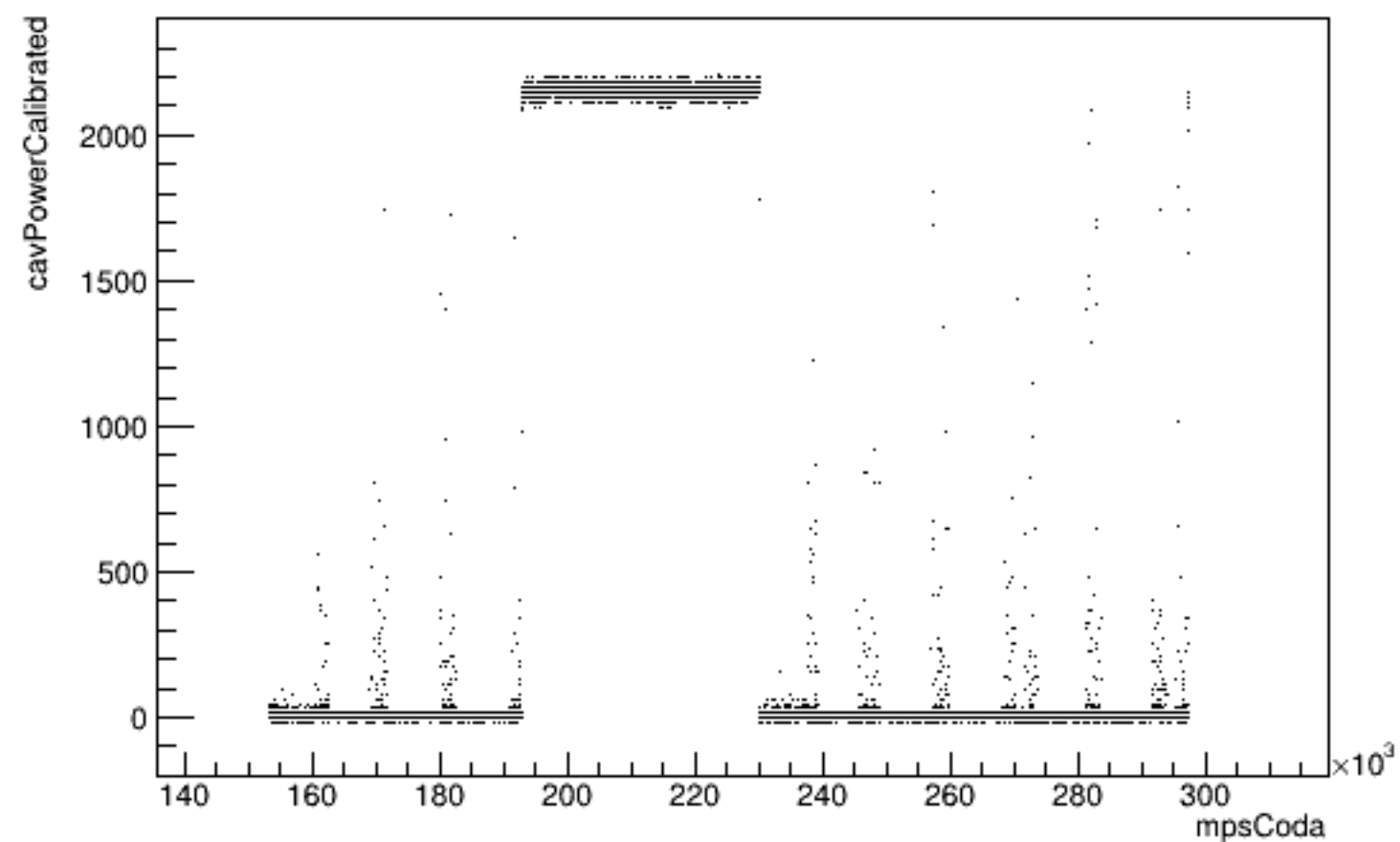
laserState:mpsCoda {mpsCoda&gt;=153284 &amp;&amp; mpsCoda&lt;=297283}



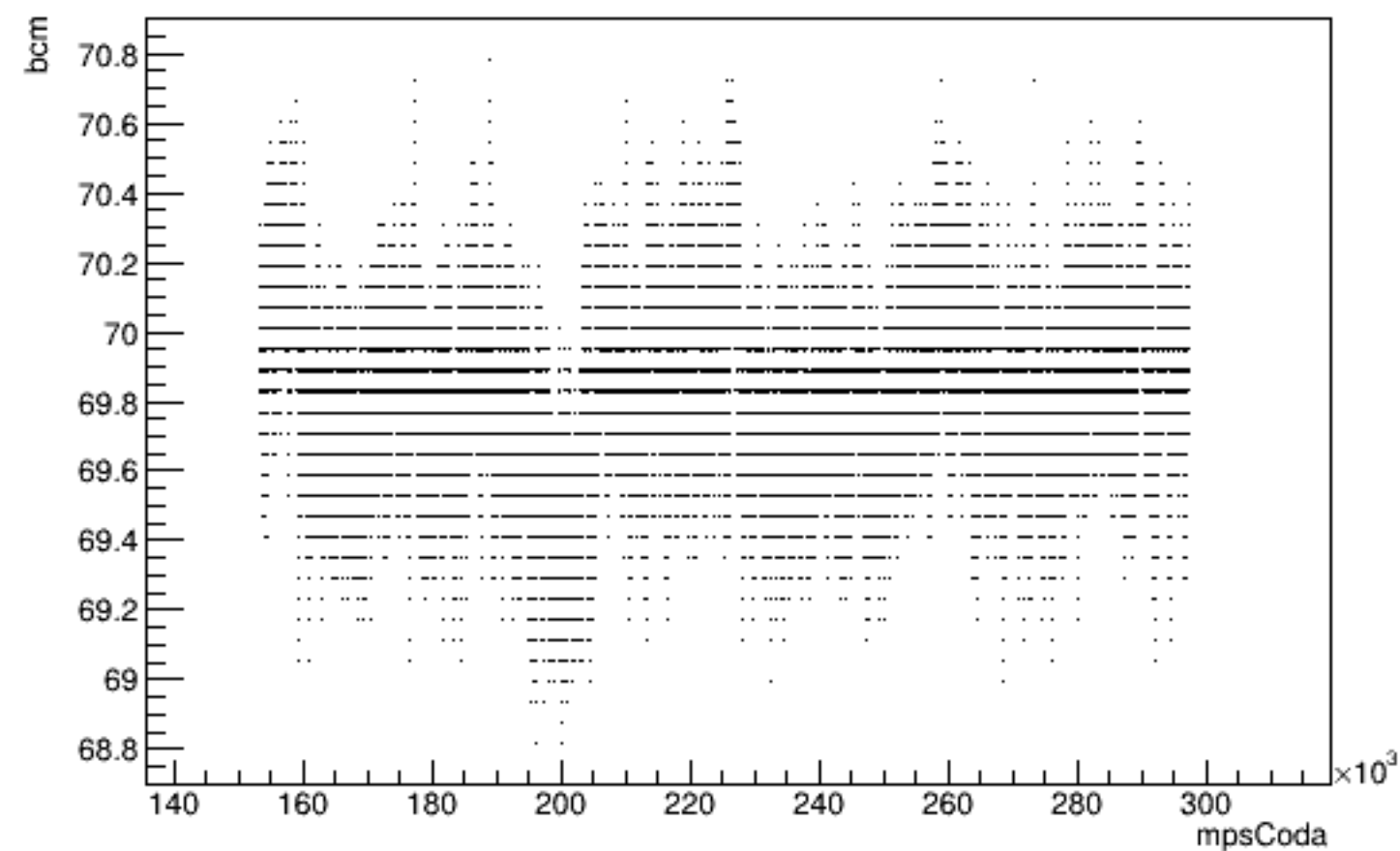
beamState + 1:mpsCoda {mpsCoda&gt;=153284 &amp;&amp; mpsCoda&lt;=297283}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=153284 &amp;&amp; mpsCoda&lt;=297283}



bcm:mpsCoda {mpsCoda&gt;=153284 &amp;&amp; mpsCoda&lt;=297283}



## Cycle 4, Diffs

Entries: 8112

Mean: 0.0408 +/- 0.0041

Std Dev: 0.3680 +/- 0.0029

Entries: 4577

Mean: -0.0372 +/- 0.0060

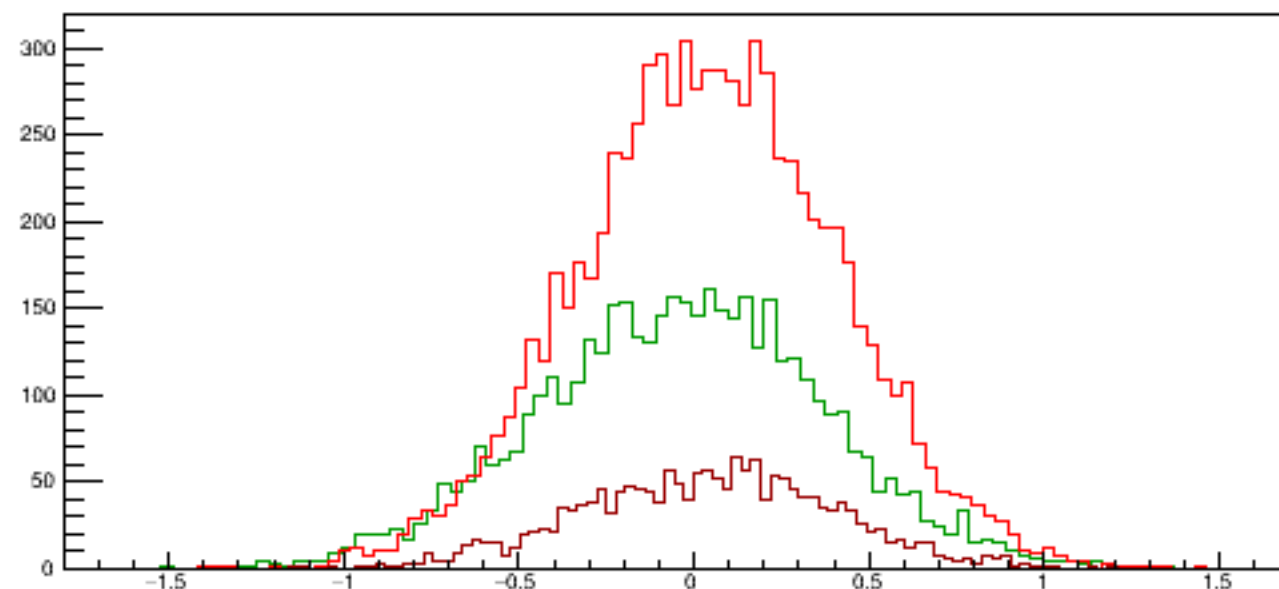
Std Dev: 0.4083 +/- 0.0043

Entries: 1808

Mean: 0.0400 +/- 0.0085

Std Dev: 0.3602 +/- 0.0060

Run 4460 quartetwise, Diffs



## Cycle 4, Sums

Entries: 8112

Mean: 17.2893 +/- 0.0056

Std Dev: 0.5064 +/- 0.0040

Entries: 4577

Mean: 23.0088 +/- 0.0075

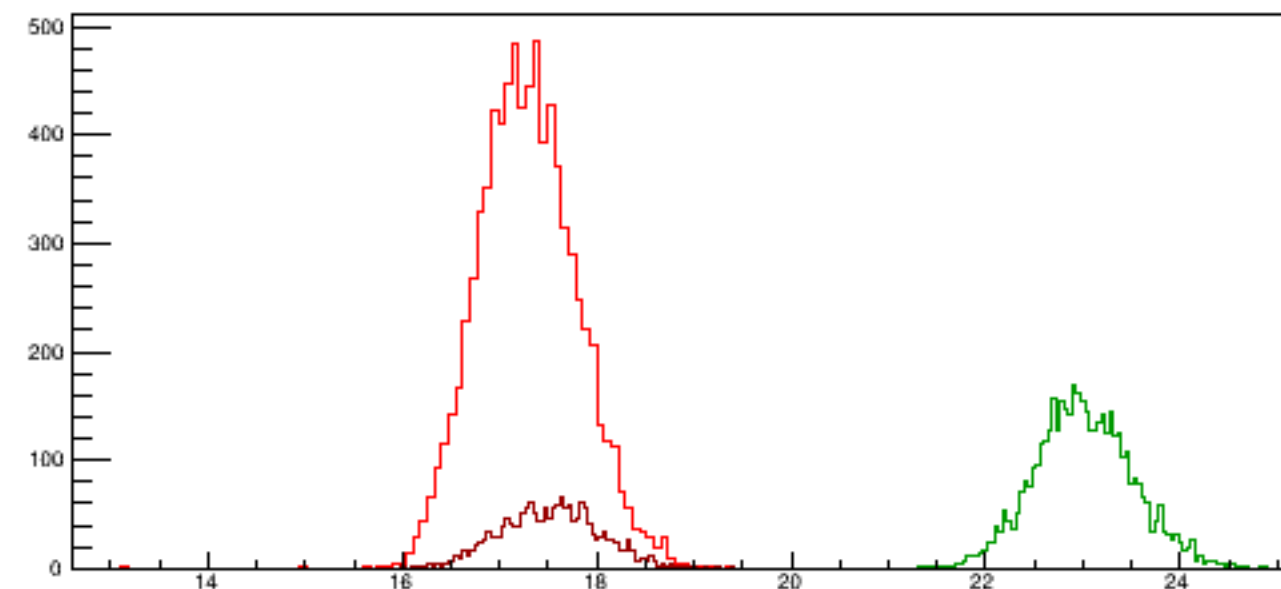
Std Dev: 0.5074 +/- 0.0053

Entries: 1808

Mean: 17.5288 +/- 0.0118

Std Dev: 0.5035 +/- 0.0084

Run 4460 quartetwise, Sums



## Cycle 4, Asyms

Entries: 8112

Mean: 0.0073 +/- 0.0007

Std Dev: 0.0657 +/- 0.0005

Entries: 4577

Mean: -0.0067 +/- 0.0011

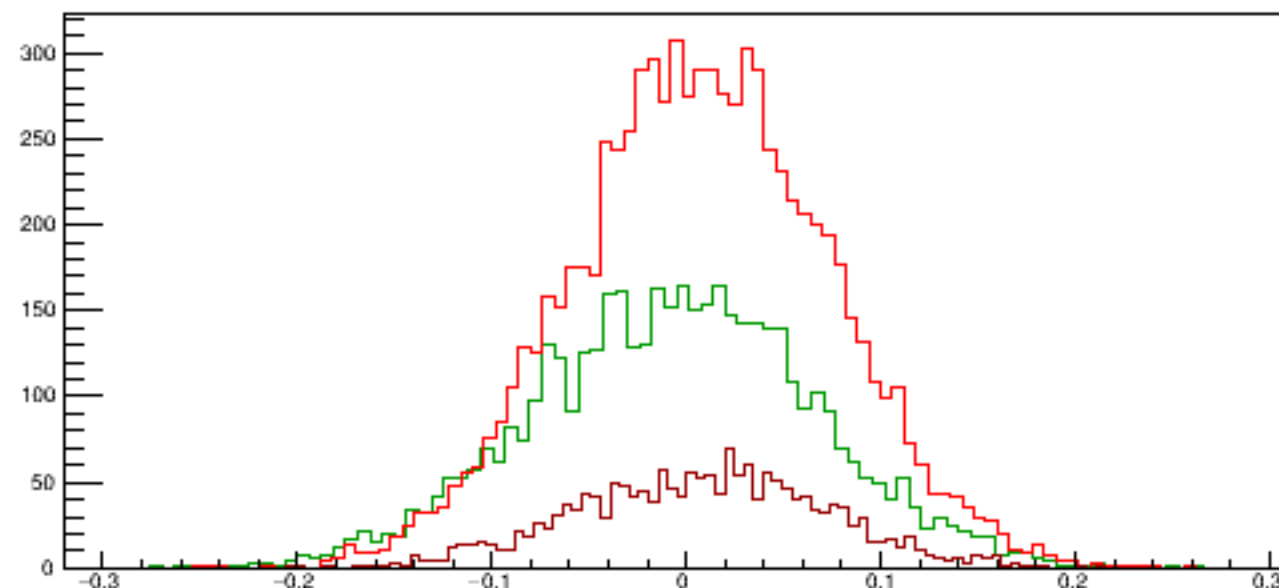
Std Dev: 0.0733 +/- 0.0008

Entries: 1808

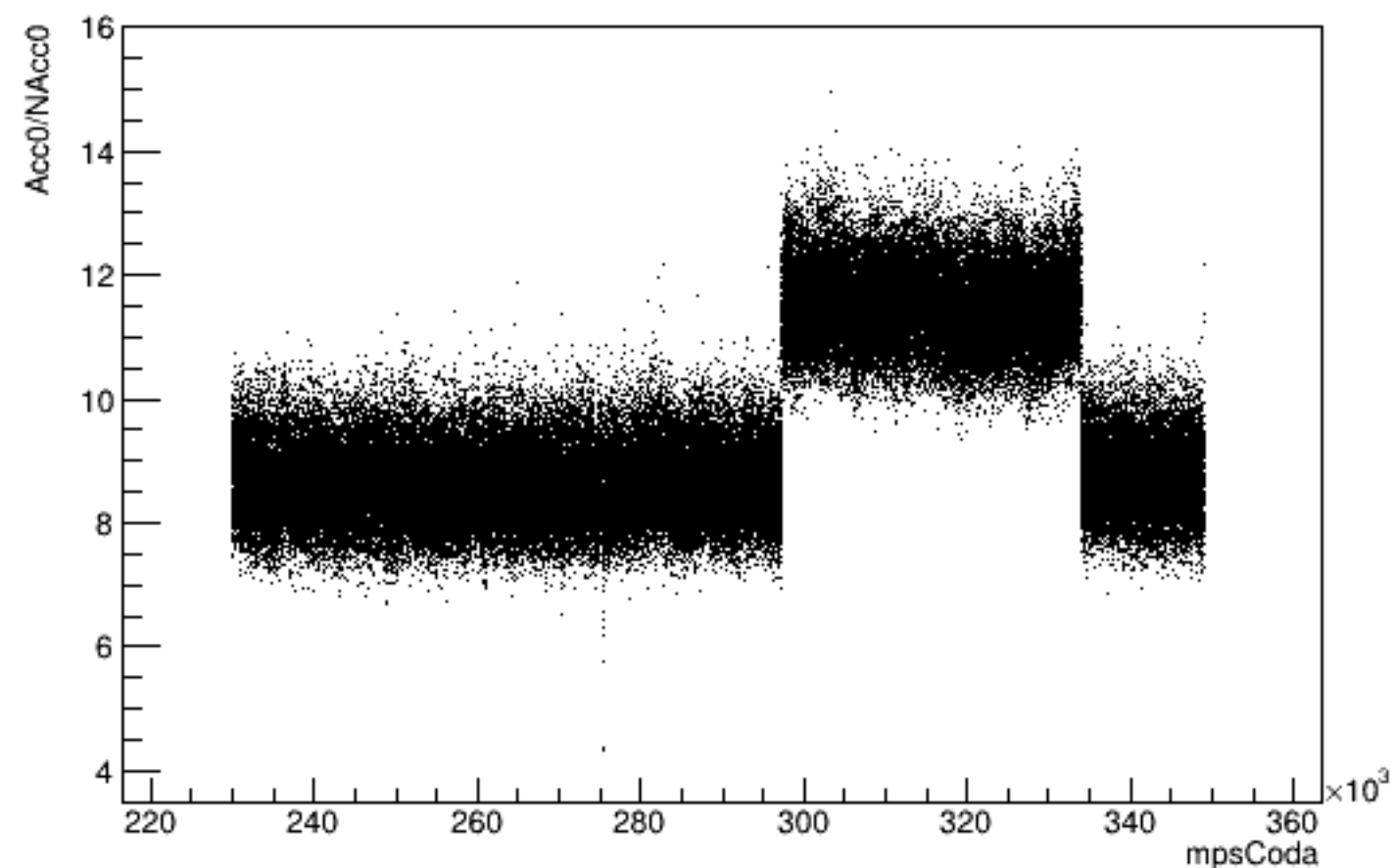
Mean: 0.0072 +/- 0.0015

Std Dev: 0.0643 +/- 0.0011

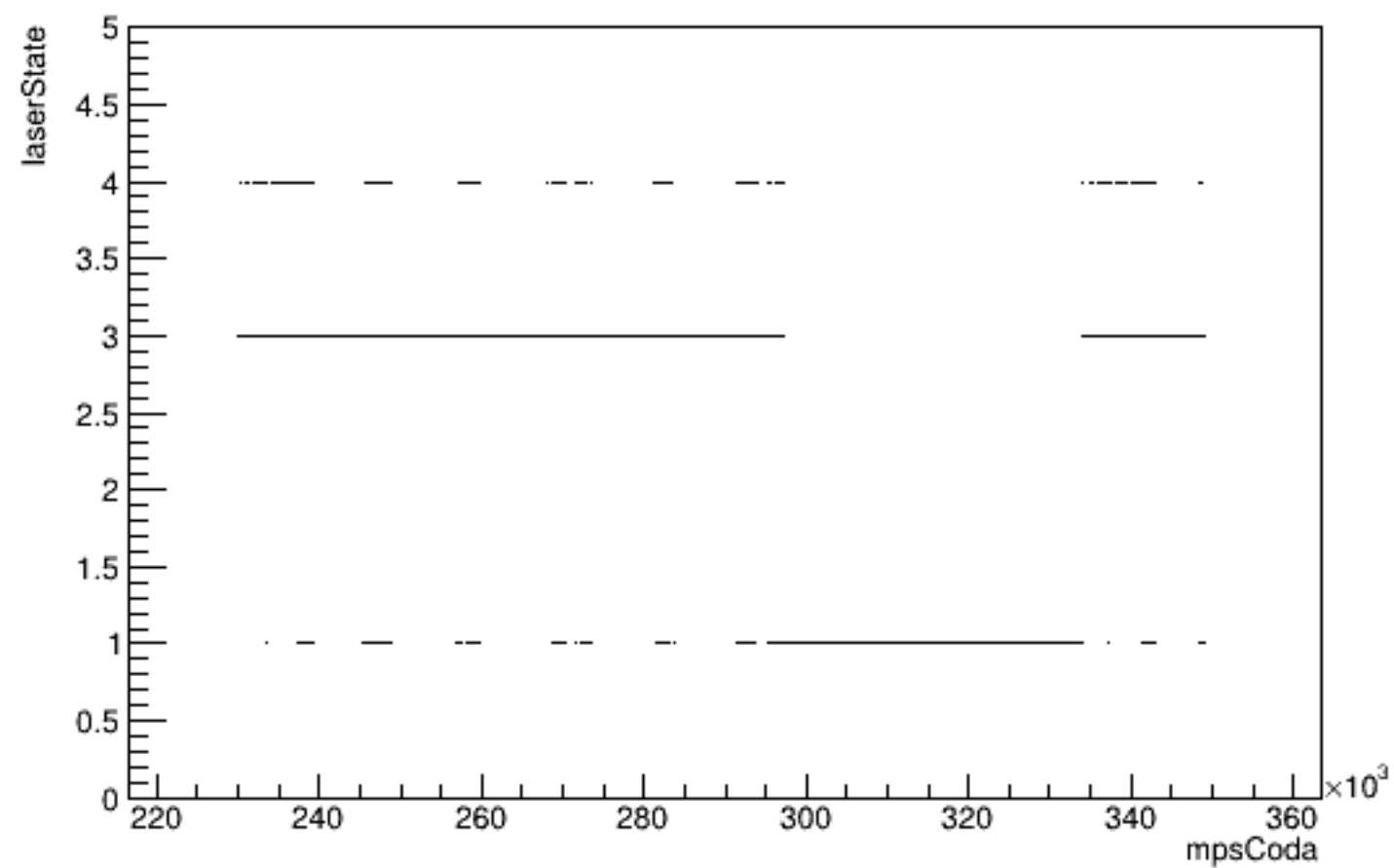
Run 4460 quartetwise, Asyms



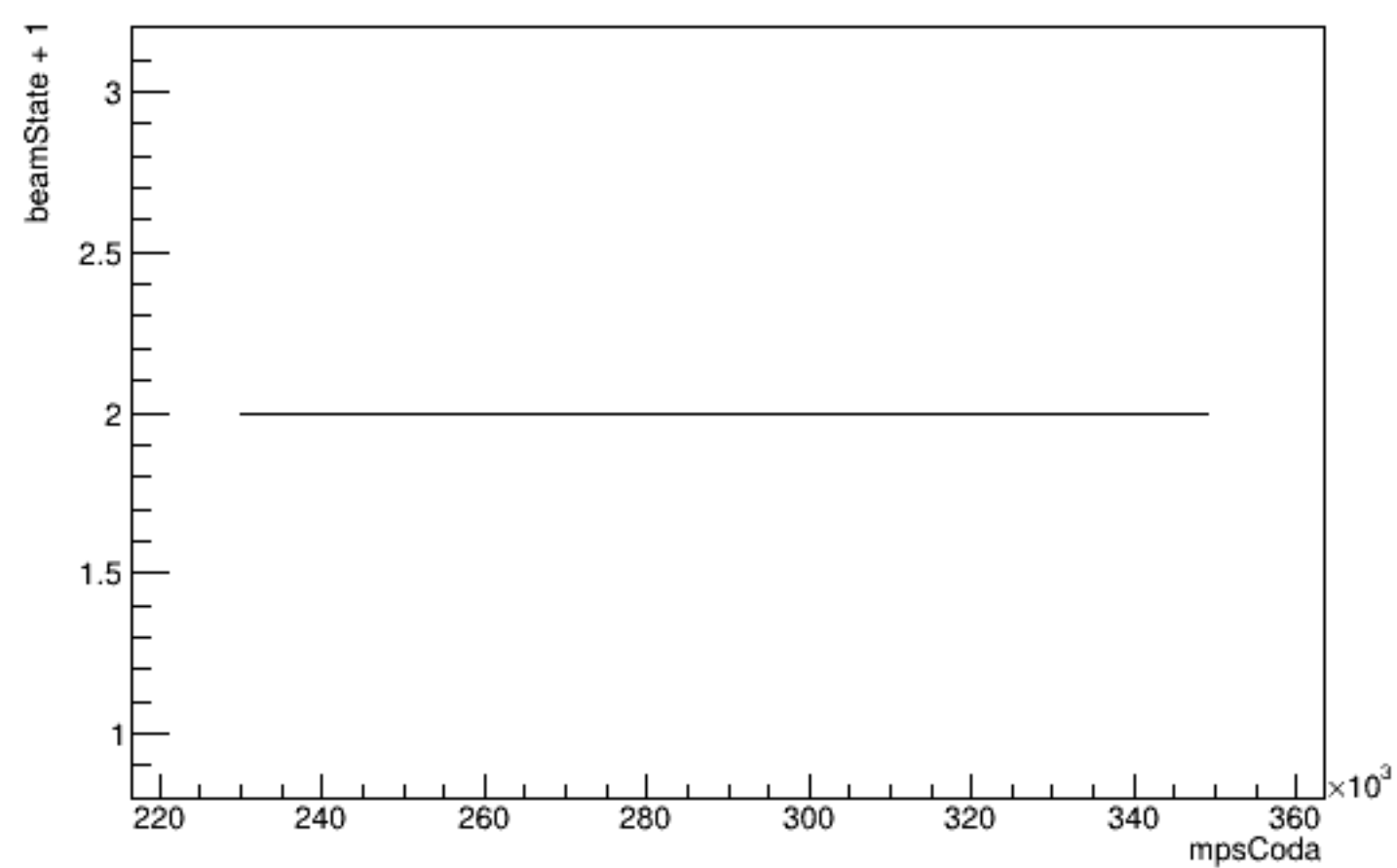
Acc0/NAcc0:mpsCoda (mpsCoda>=229988 && mpsCoda<=348979 && beamState==1)



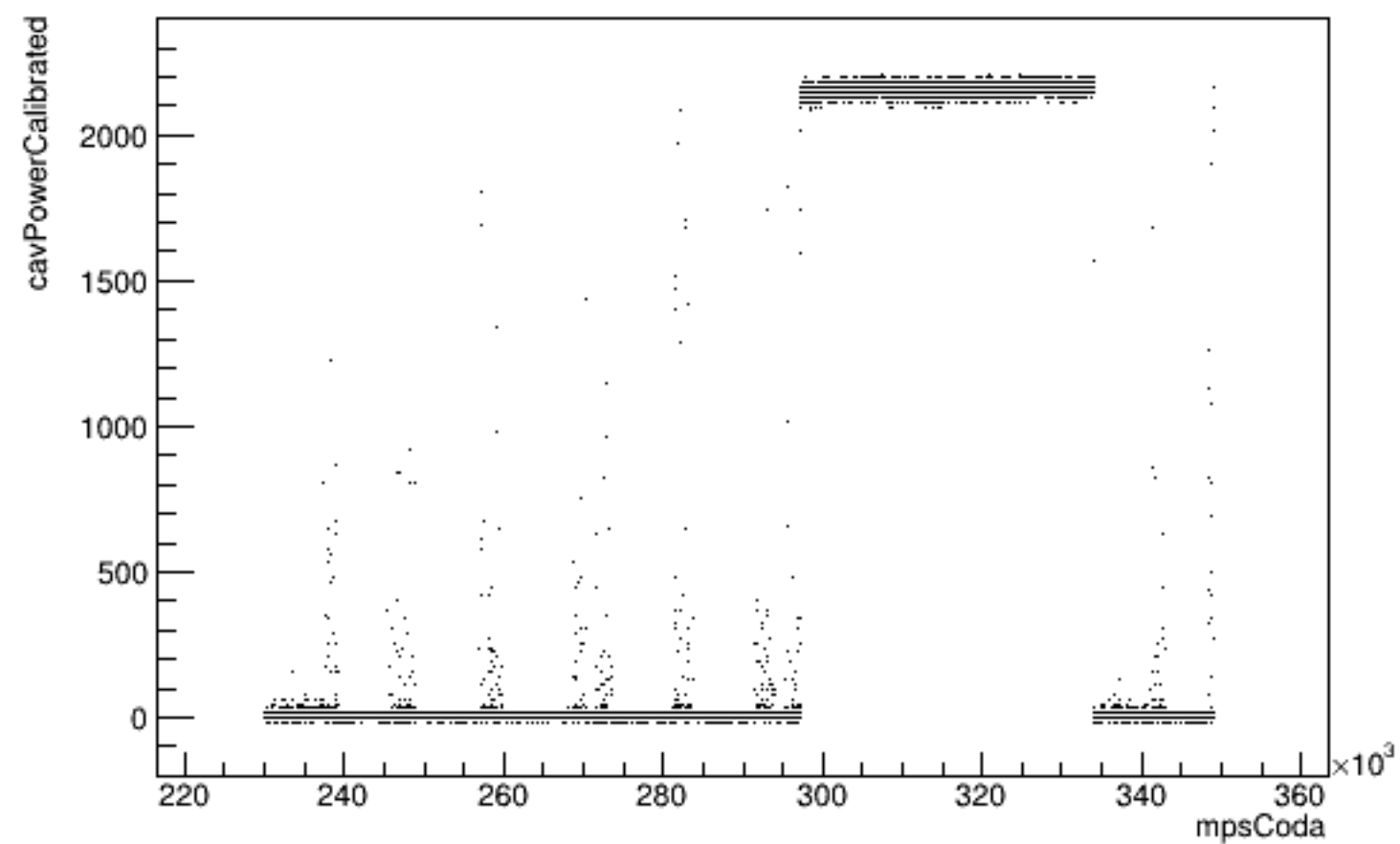
laserState:mpsCoda {mpsCoda&gt;=229988 &amp;&amp; mpsCoda&lt;=348979}



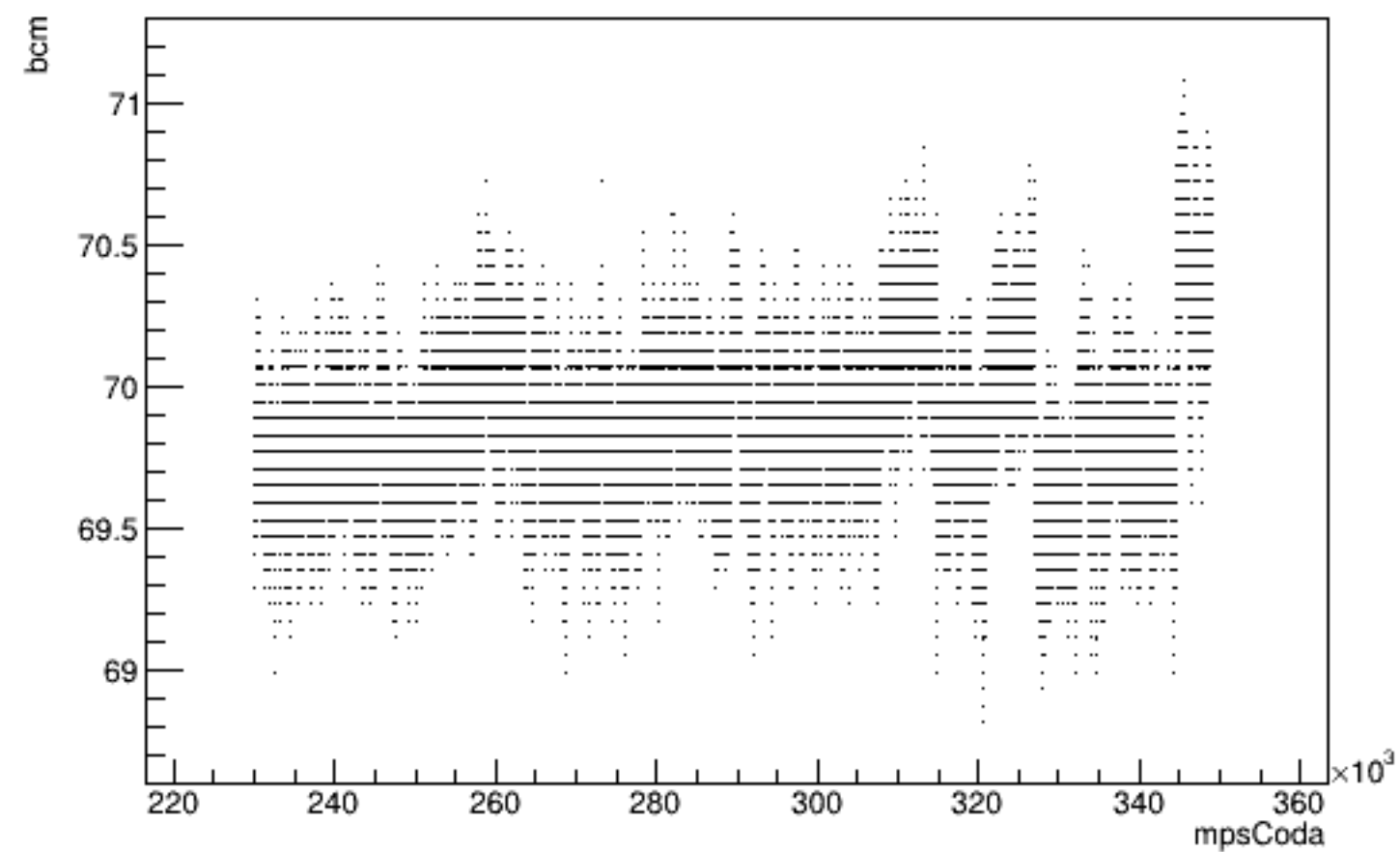
beamState + 1:mpsCoda {mpsCoda&gt;=229988 &amp;&amp; mpsCoda&lt;=348979}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=229988 &amp;&amp; mpsCoda&lt;=348979}



bcm:mpsCoda {mpsCoda&gt;=229988 &amp;&amp; mpsCoda&lt;=348979}



## Cycle 5, Diffs

Entries: 1808

Mean: 0.0400 +/- 0.0085

Std Dev: 0.3602 +/- 0.0060

Entries: 4608

Mean: -0.0454 +/- 0.0060

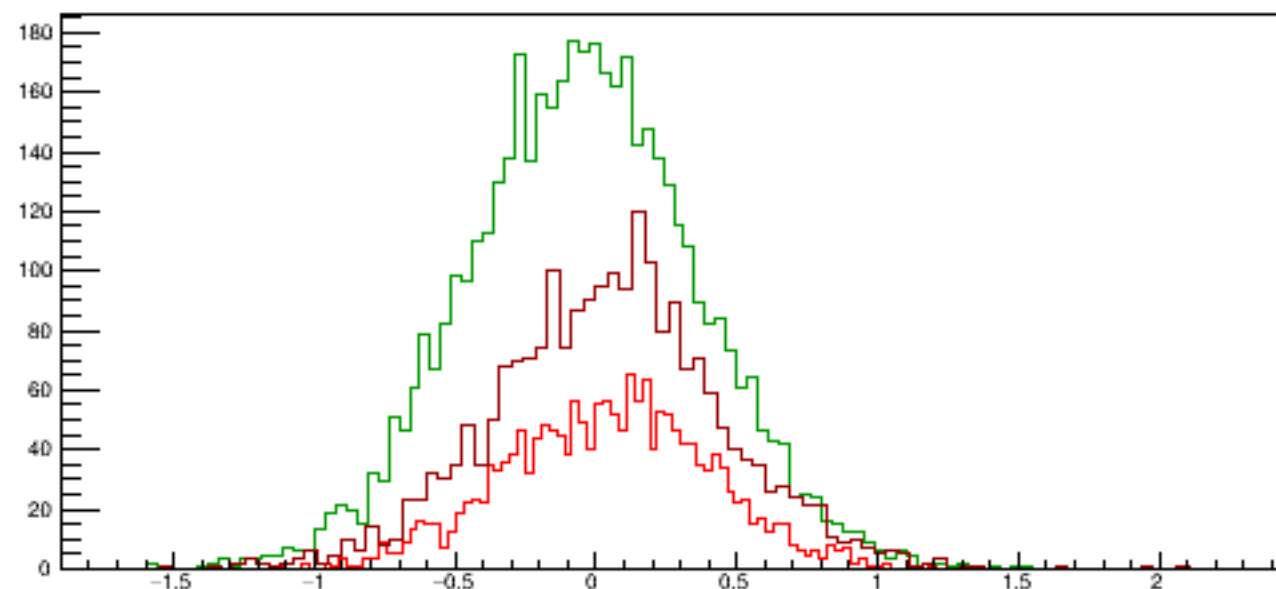
Std Dev: 0.4089 +/- 0.0043

Entries: 2205

Mean: 0.0431 +/- 0.0087

Std Dev: 0.4094 +/- 0.0062

Run 4460 quartetwise, Diffs



## Cycle 5, Sums

Entries: 1808

Mean: 17.5288 +/- 0.0118

Std Dev: 0.5035 +/- 0.0084

Entries: 4608

Mean: 22.9942 +/- 0.0084

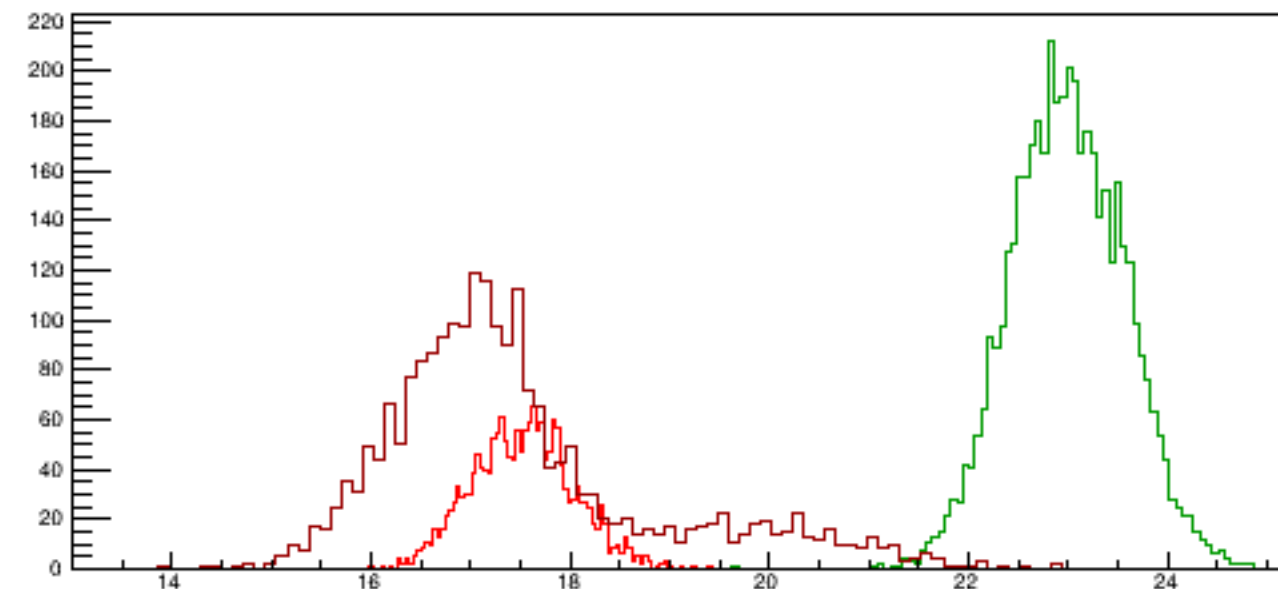
Std Dev: 0.5683 +/- 0.0059

Entries: 2205

Mean: 17.4949 +/- 0.0294

Std Dev: 1.3806 +/- 0.0208

Run 4460 quartetwise, Sums



## Cycle 5, Asyms

Entries: 1808

Mean: 0.0073 +/- 0.0015

Std Dev: 0.0657 +/- 0.0011

Entries: 4608

Mean: -0.0085 +/- 0.0011

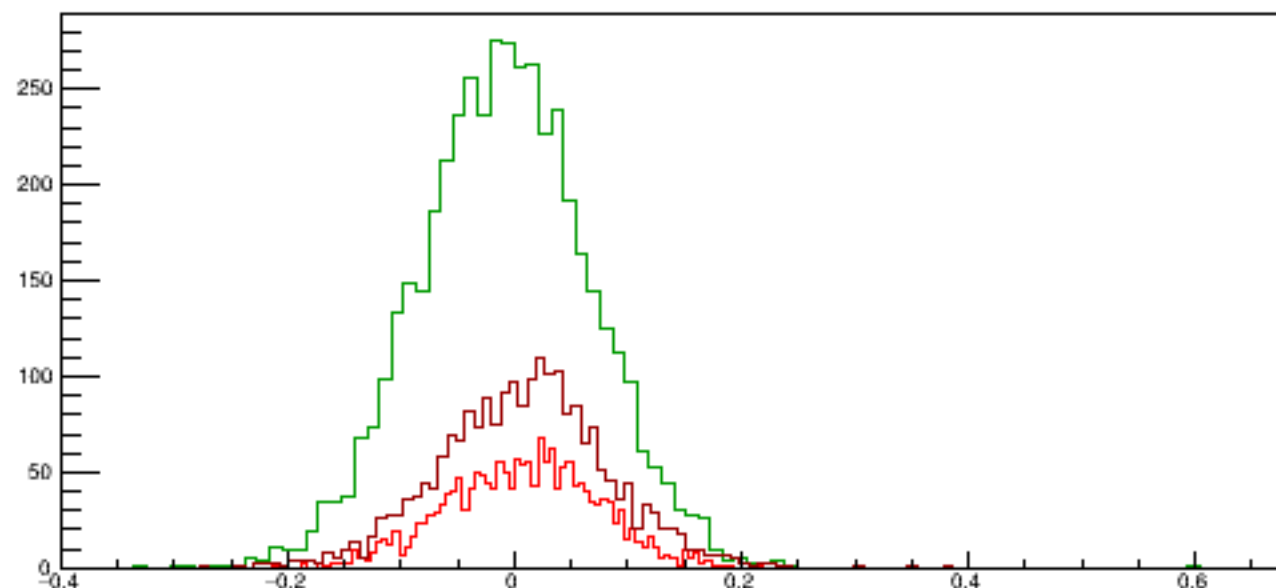
Std Dev: 0.0753 +/- 0.0008

Entries: 2205

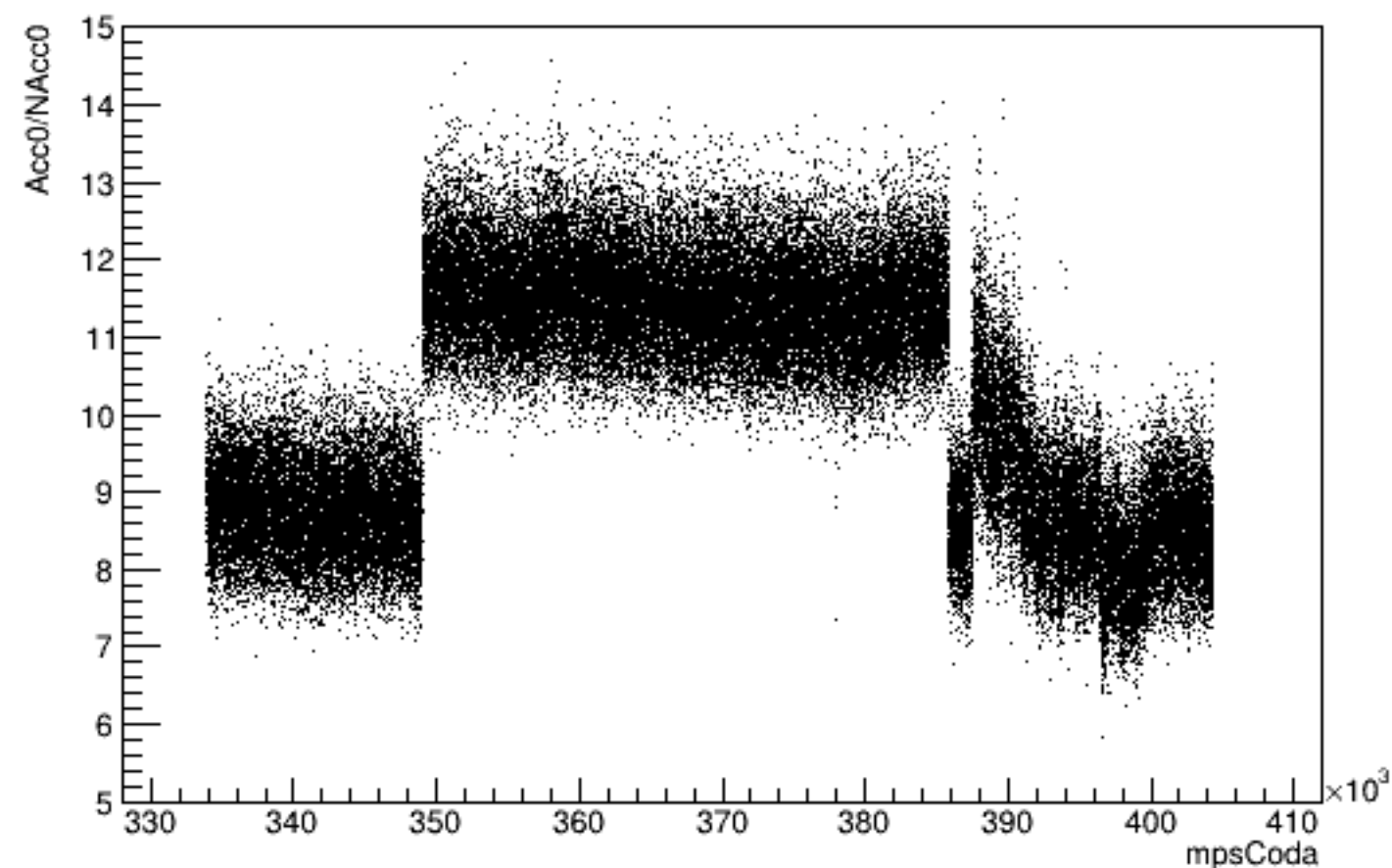
Mean: 0.0079 +/- 0.0016

Std Dev: 0.0747 +/- 0.0011

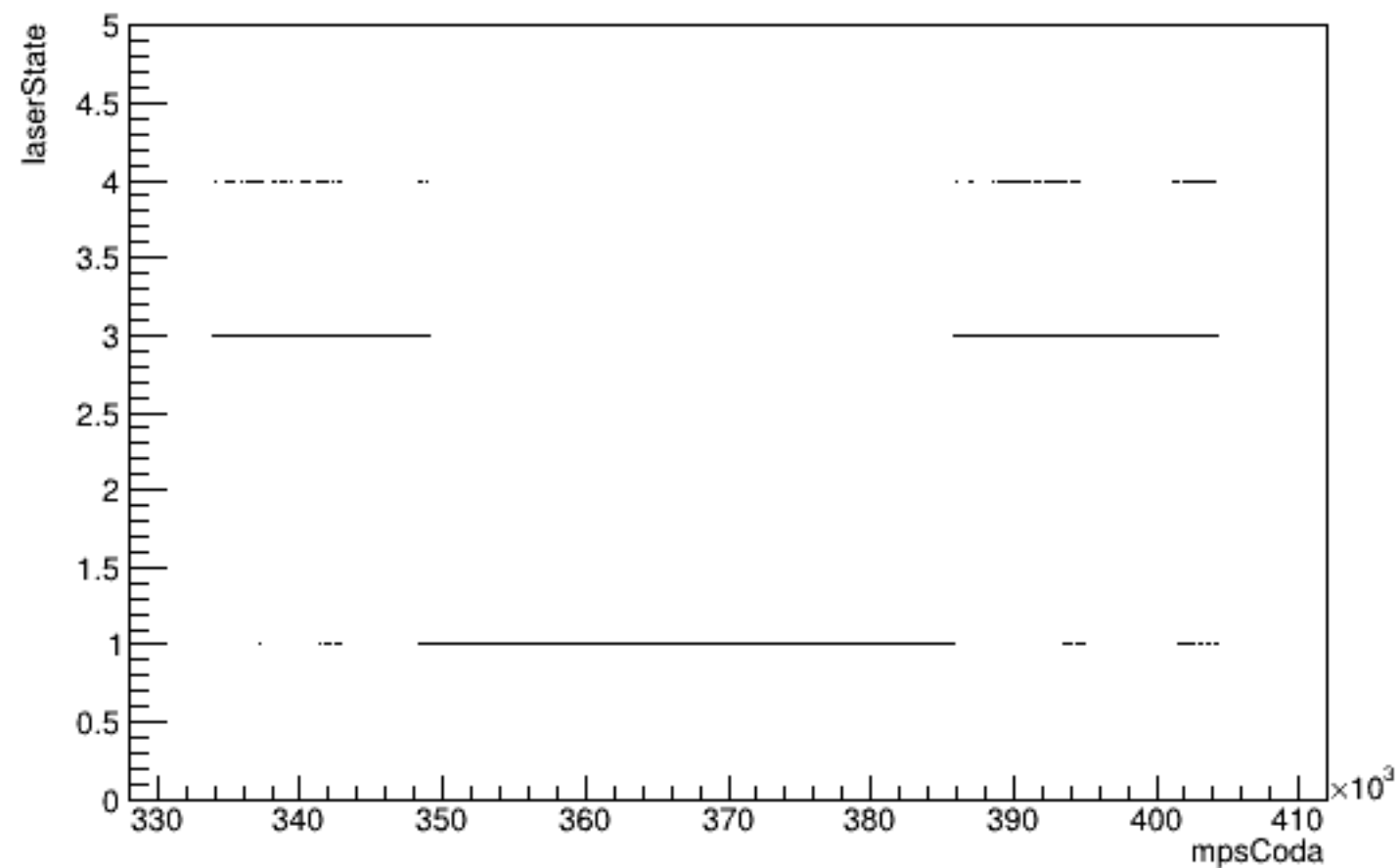
Run 4460 quartetwise, Asyms



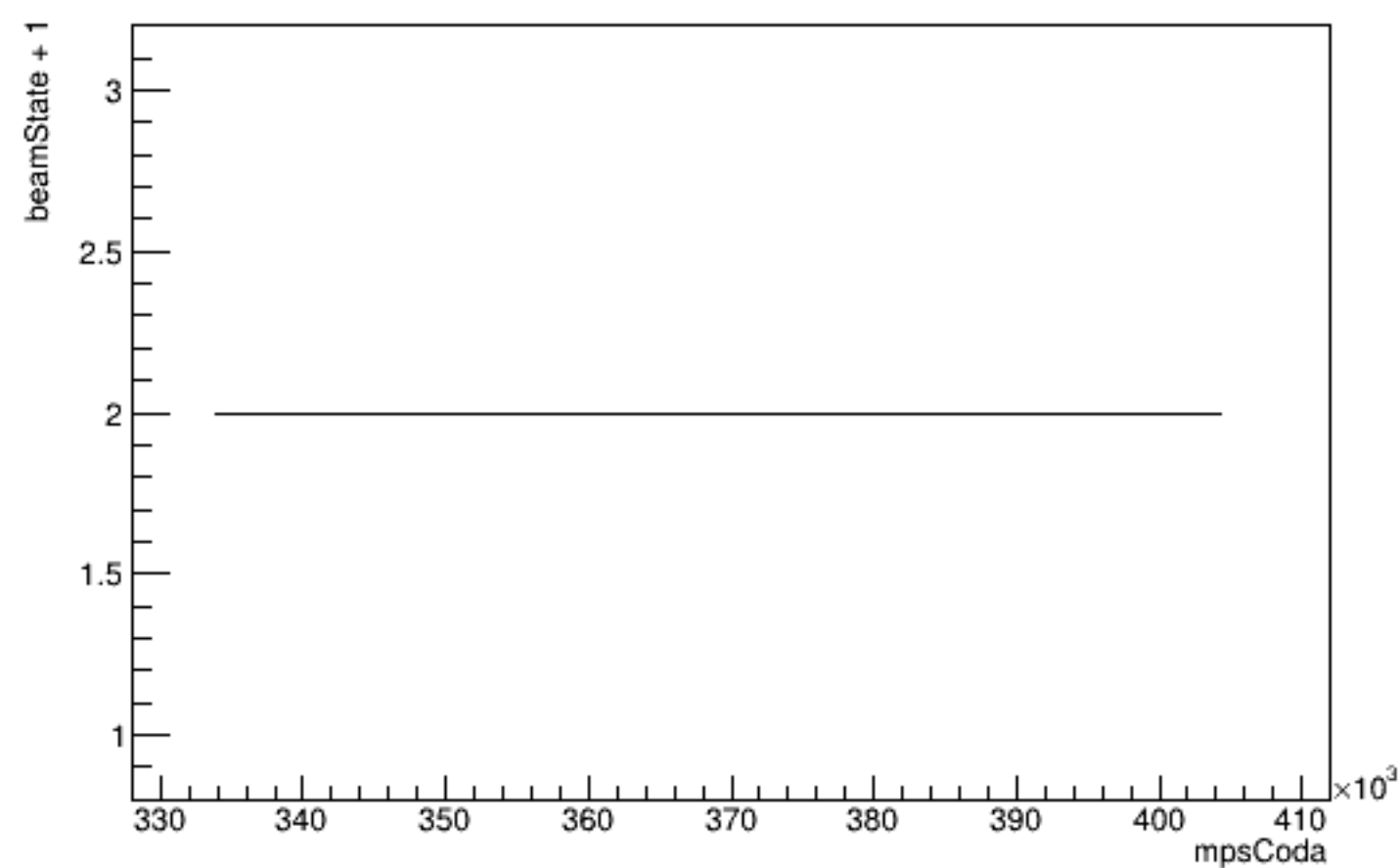
Acc0/NAcc0:mpsCoda (mpsCoda>=333908 && mpsCoda<=404355 && beamState==1)



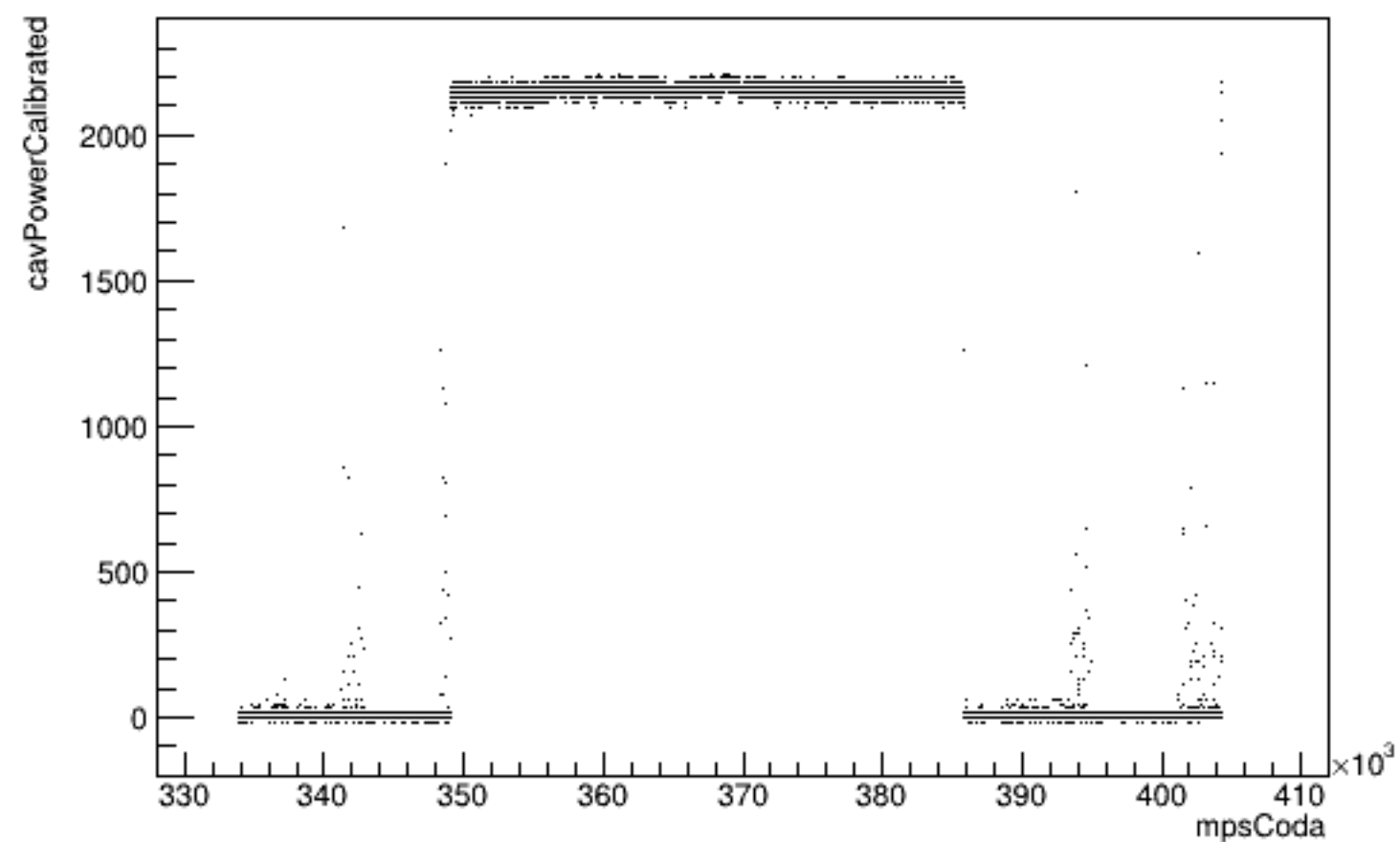
laserState:mpsCoda {mpsCoda&gt;=333908 &amp;&amp; mpsCoda&lt;=404355}



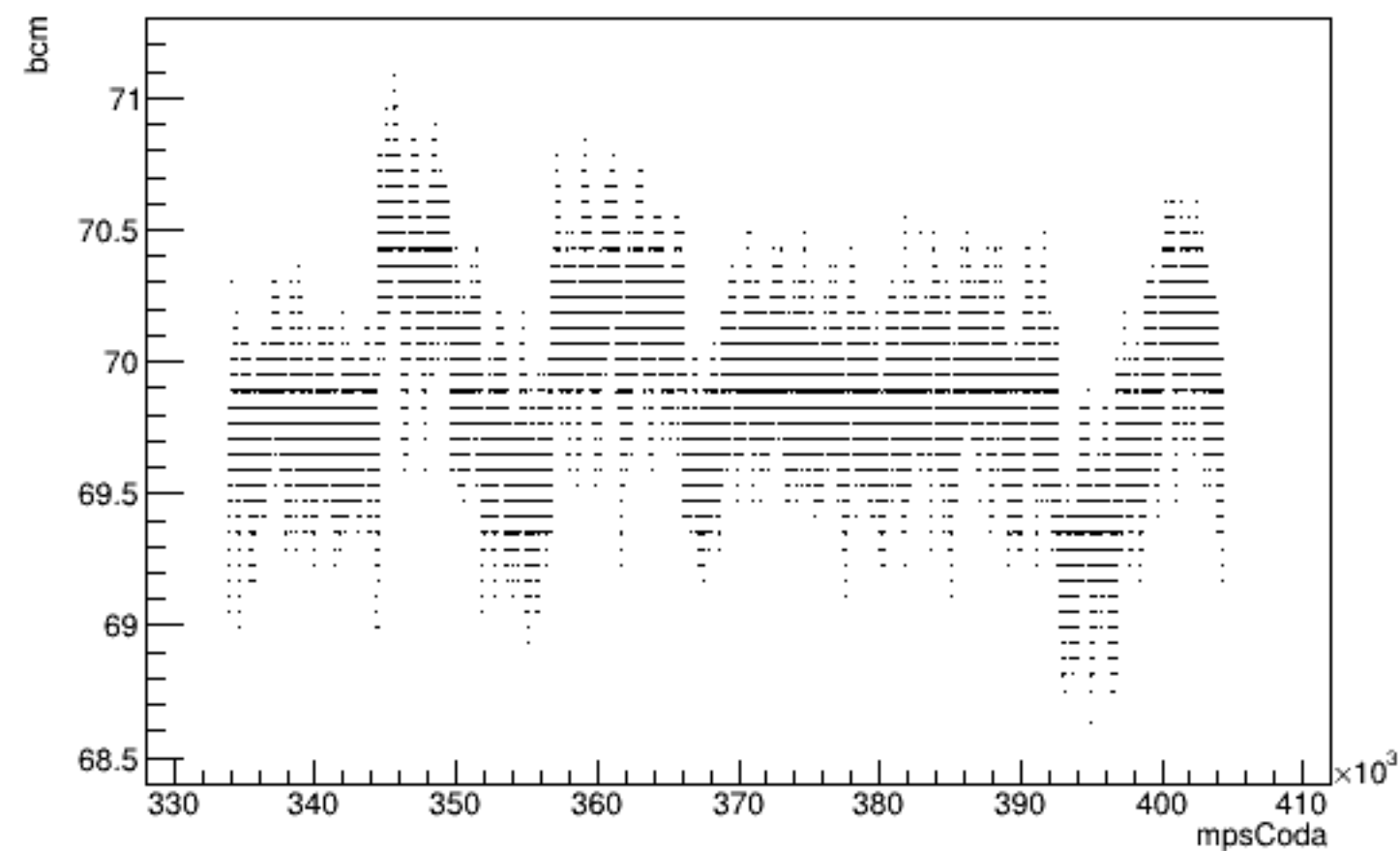
beamState + 1:mpsCoda {mpsCoda&gt;=333908 &amp;&amp; mpsCoda&lt;=404355}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=333908 &amp;&amp; mpsCoda&lt;=404355}



bcm:mpsCoda {mpsCoda&gt;=333908 &amp;&amp; mpsCoda&lt;=404355}



## Cycle 6, Diffs

Entries: 2205

Mean: 0.0431 +/- 0.0087

Std Dev: 0.4094 +/- 0.0062

Entries: 4608

Mean: -0.0083 +/- 0.0057

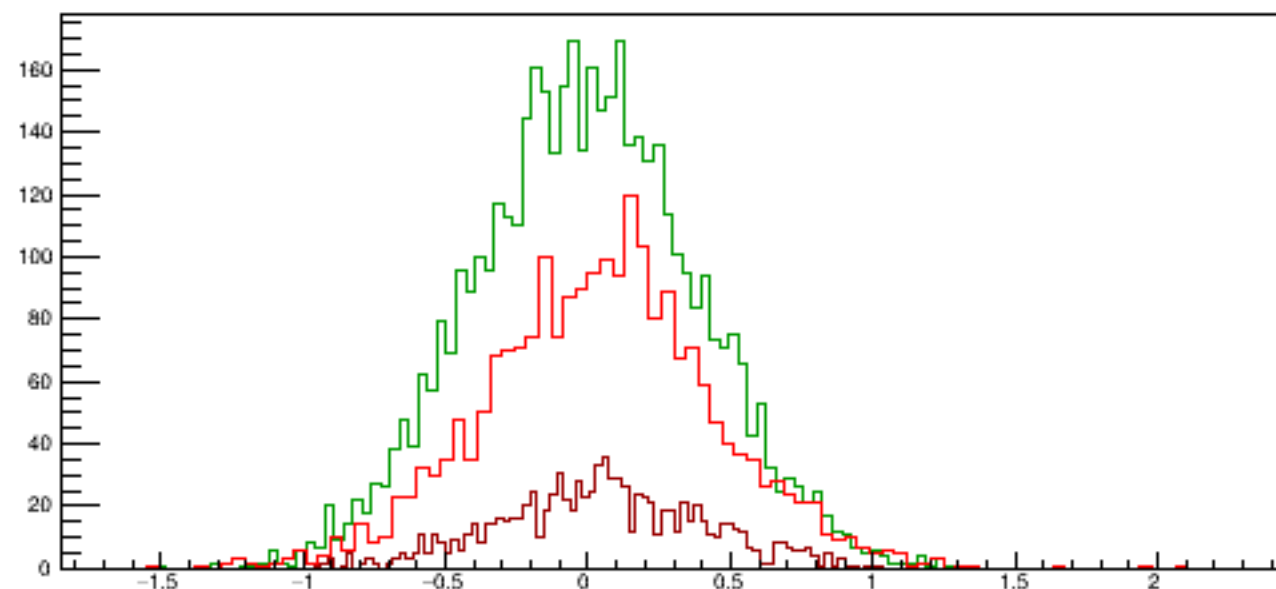
Std Dev: 0.3902 +/- 0.0041

Entries: 979

Mean: 0.0462 +/- 0.0116

Std Dev: 0.3628 +/- 0.0082

Run 4460 quartetwise, Diffs



## Cycle 6, Sums

Entries: 2205

Mean: 17.4949 +/- 0.0294

Std Dev: 1.3806 +/- 0.0208

Entries: 4608

Mean: 20.8533 +/- 0.0079

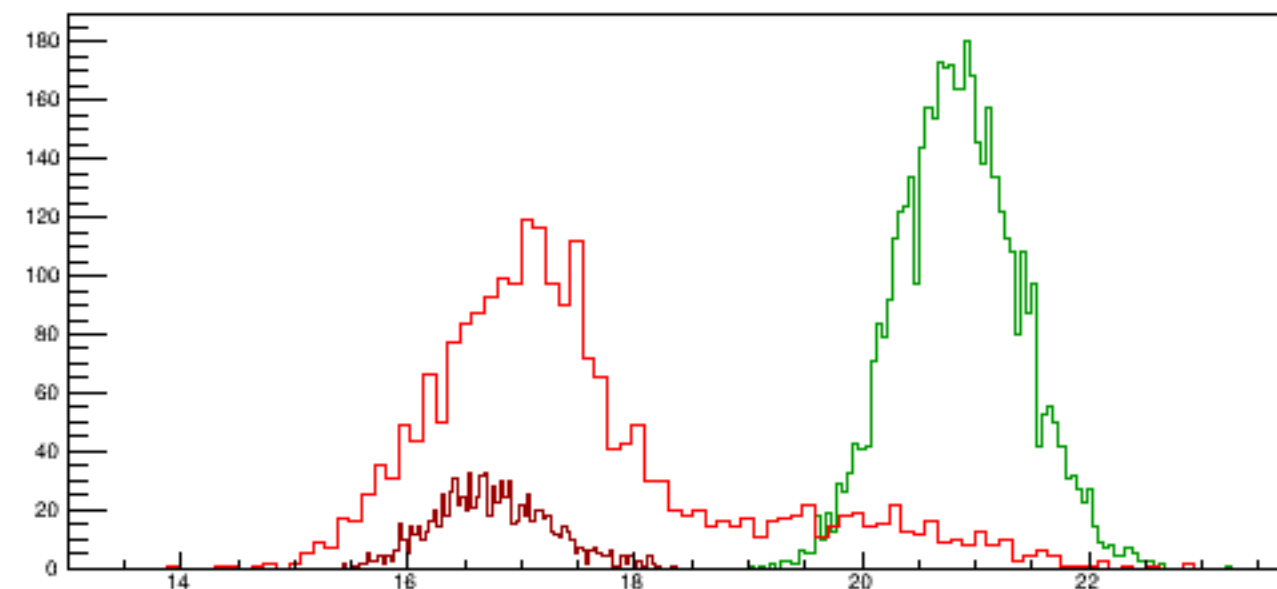
Std Dev: 0.5386 +/- 0.0056

Entries: 979

Mean: 16.7390 +/- 0.0163

Std Dev: 0.5089 +/- 0.0115

Run 4460 quartetwise, Sums



Acc0/NAcc0:mpsCoda (mpsCoda>=385852 && mpsCoda<=449403 && beamState==1)

## Cycle 6, Asyms

Entries: 2205

Mean: 0.0115 +/- 0.0023

Std Dev: 0.1096 +/- 0.0017

Entries: 4608

Mean: -0.0025 +/- 0.0016

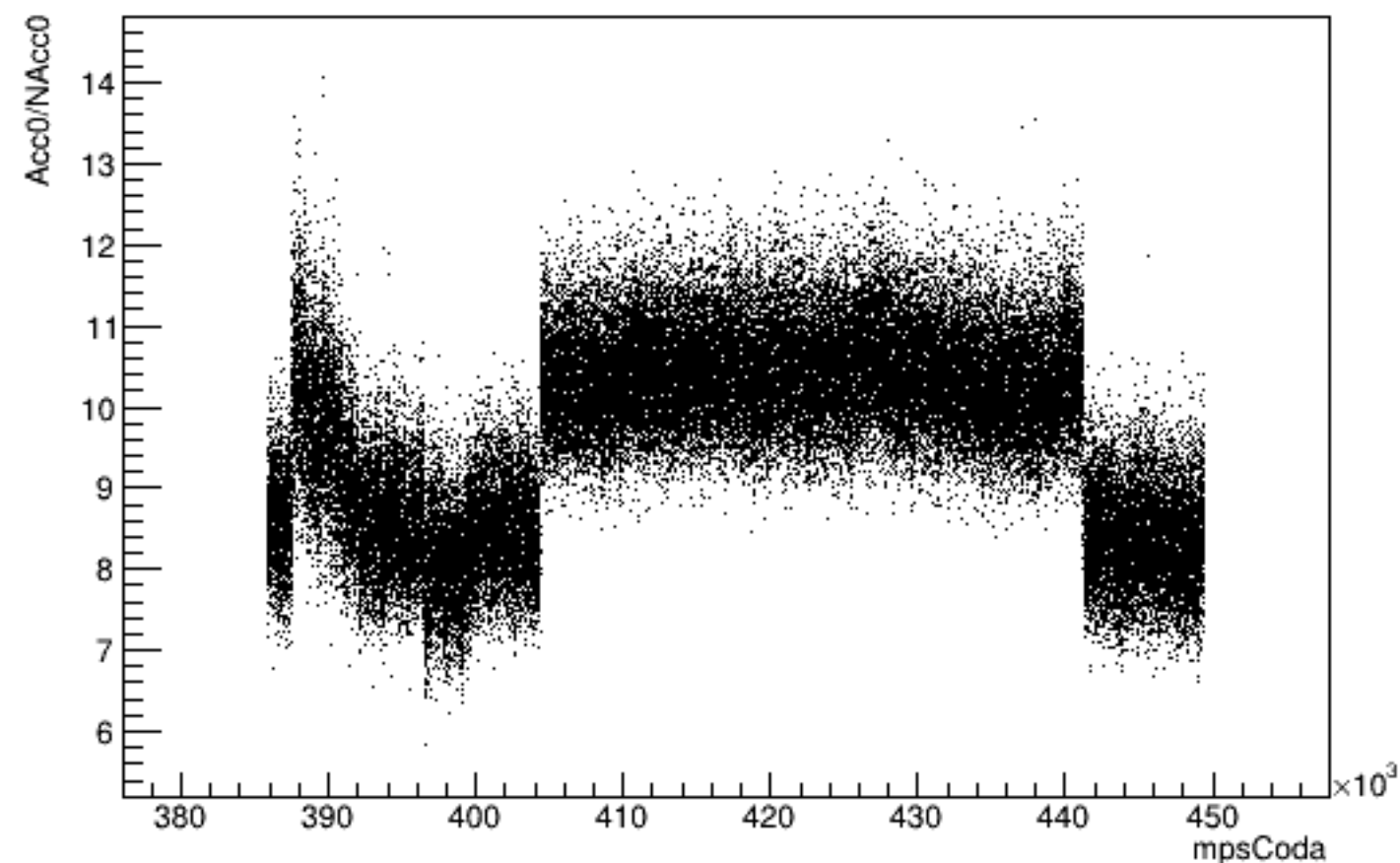
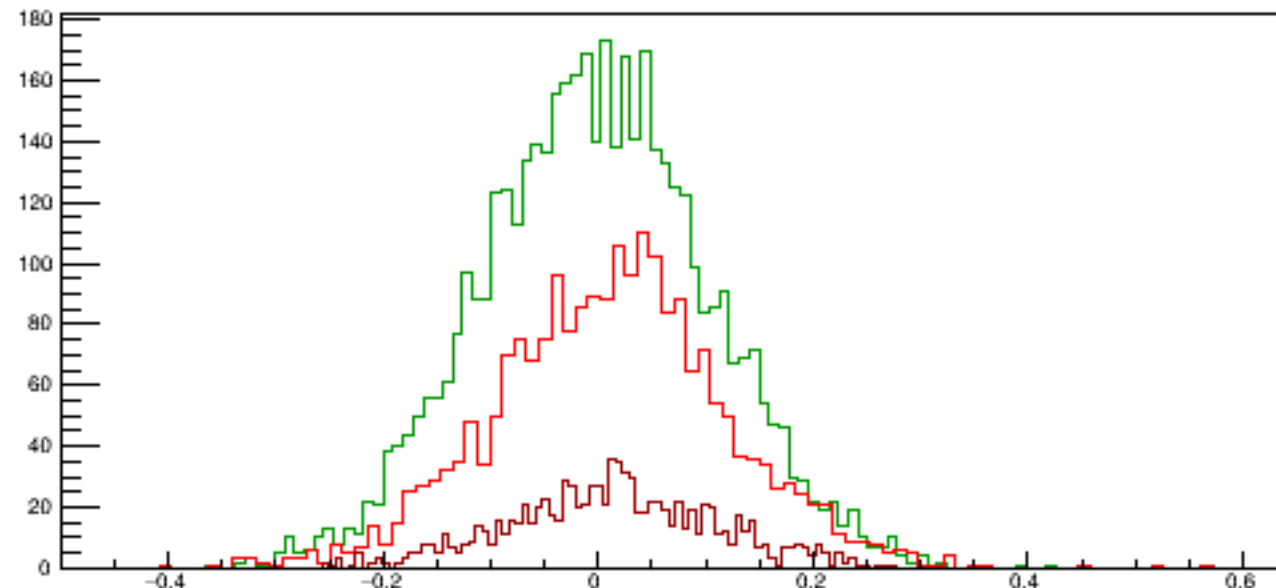
Std Dev: 0.1060 +/- 0.0011

Entries: 979

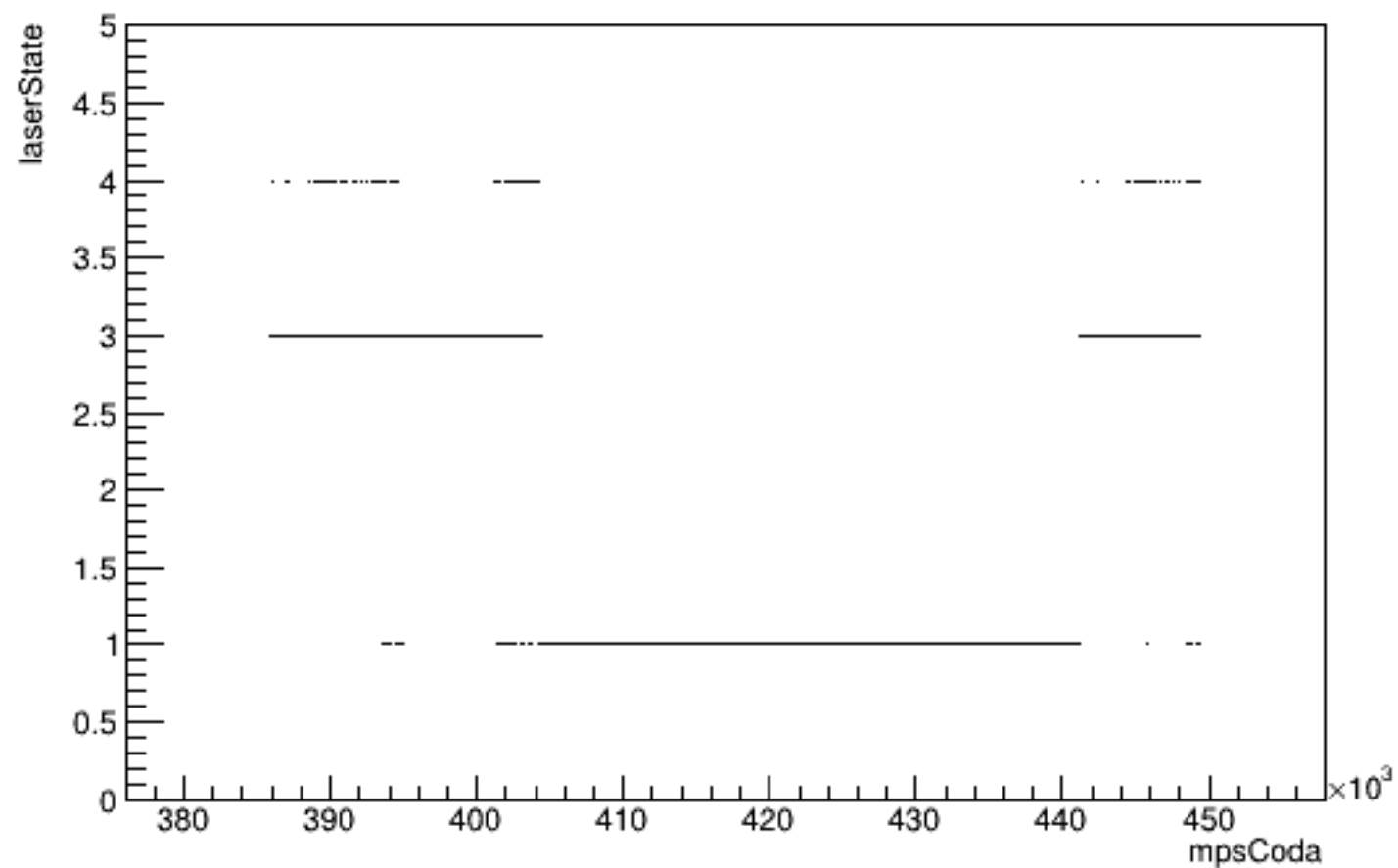
Mean: 0.0124 +/- 0.0031

Std Dev: 0.0971 +/- 0.0022

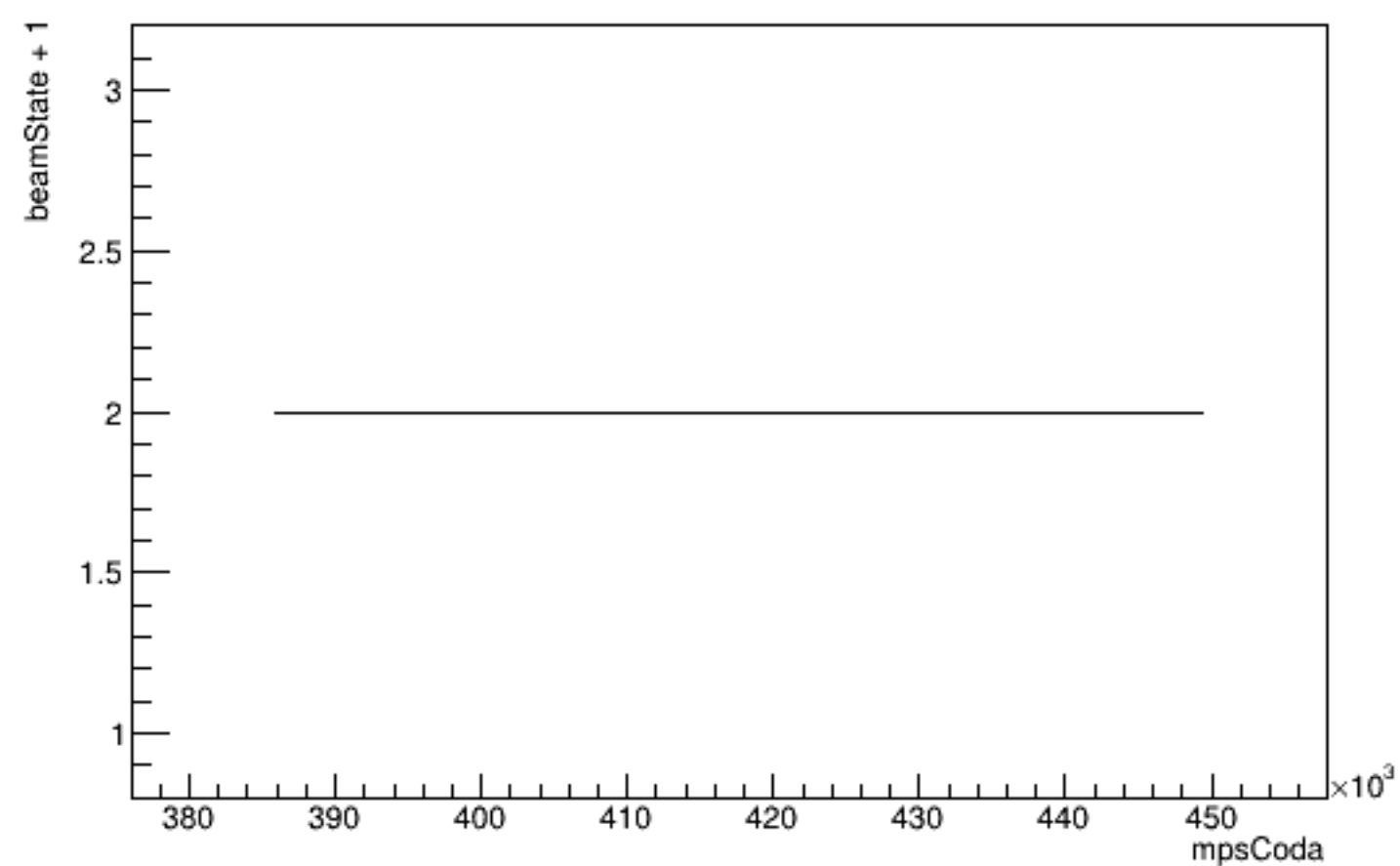
Run 4460 quartetwise, Asyms



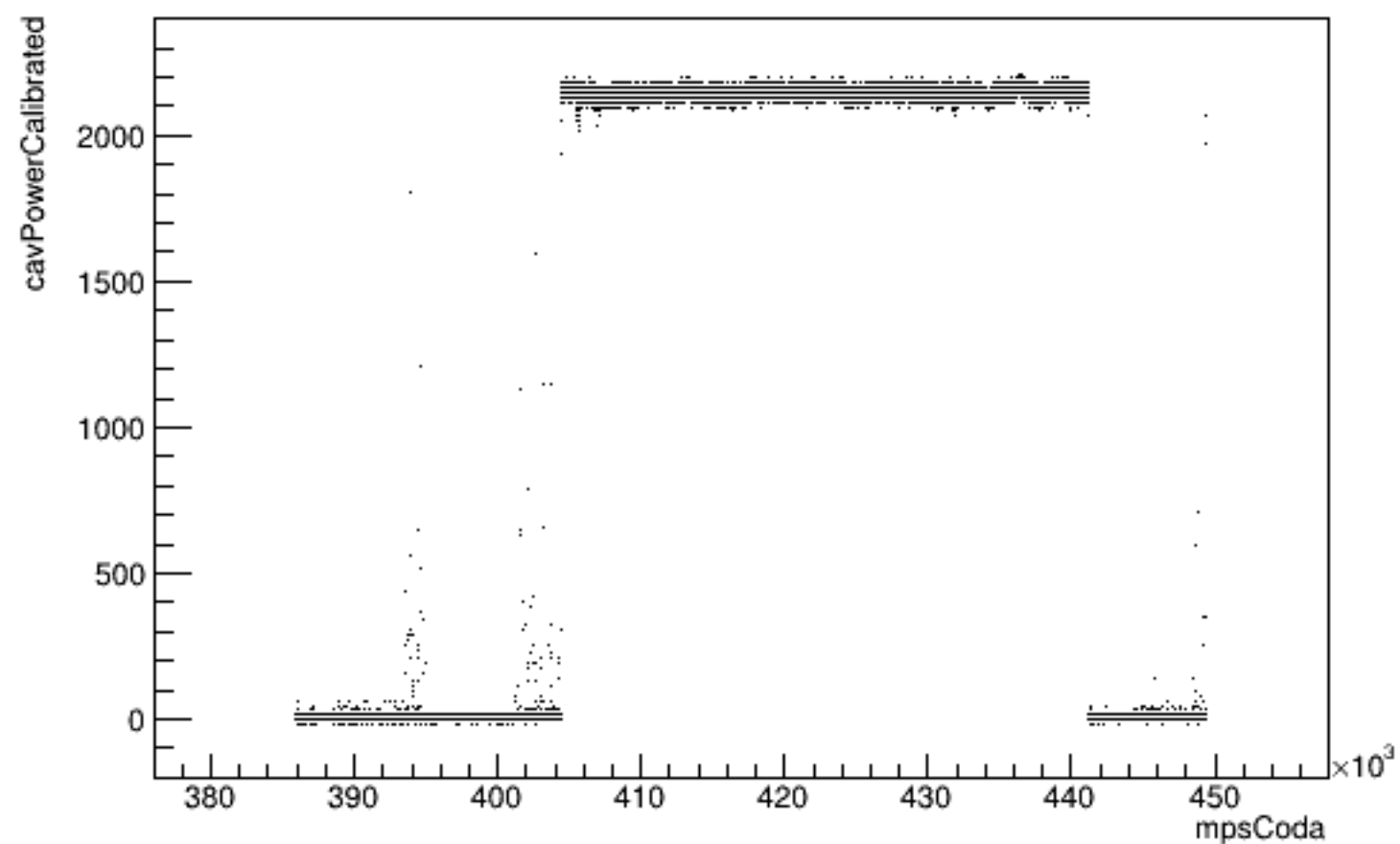
laserState:mpsCoda {mpsCoda&gt;=385852 &amp;&amp; mpsCoda&lt;=449403}



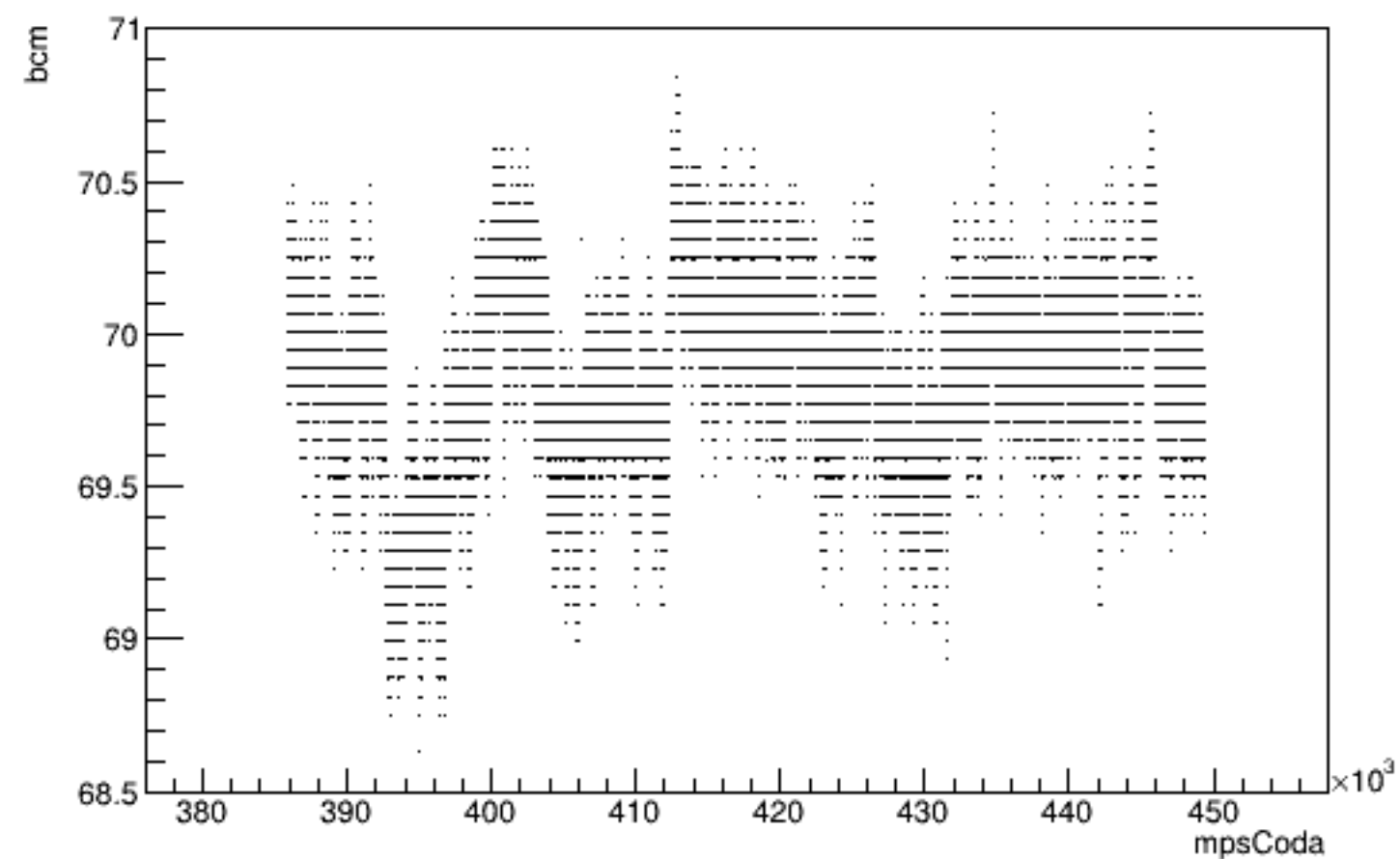
beamState + 1:mpsCoda {mpsCoda&gt;=385852 &amp;&amp; mpsCoda&lt;=449403}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=385852 &amp;&amp; mpsCoda&lt;=449403}



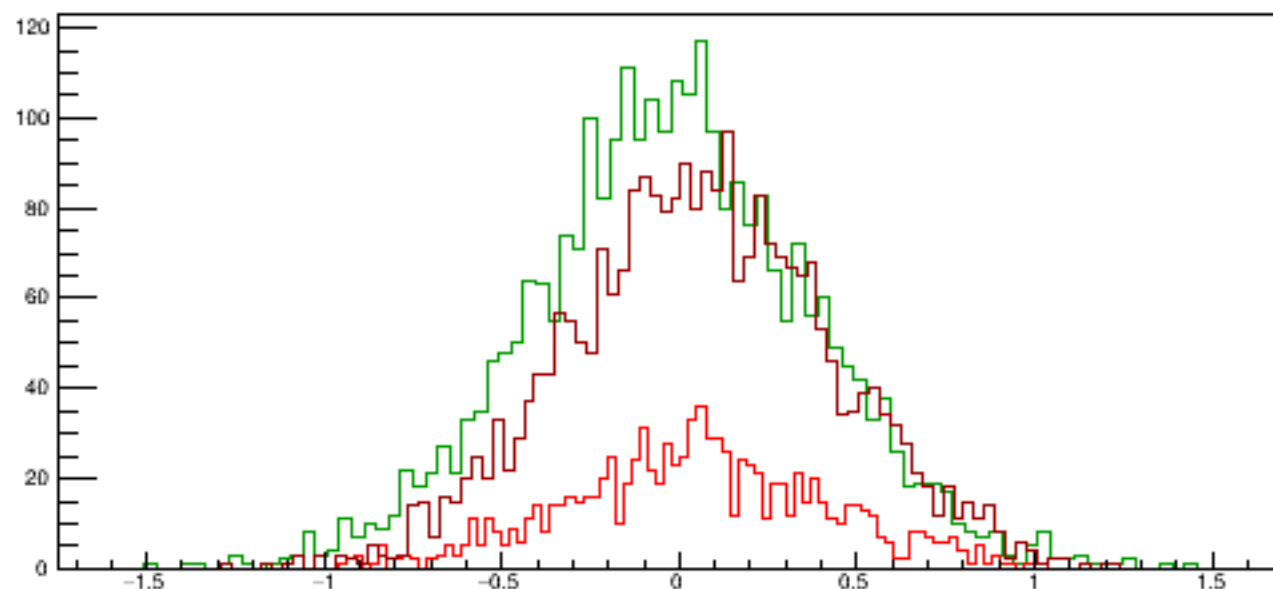
bcm:mpsCoda {mpsCoda&gt;=385852 &amp;&amp; mpsCoda&lt;=449403}



## Cycle 7, Diffs

| Entries: 979               | Entries: 2841              | Entries: 2675              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0462 +/- 0.0116    | Mean: -0.0212 +/- 0.0074   | Mean: 0.0568 +/- 0.0072    |
| Std Dev: 0.3628 +/- 0.0082 | Std Dev: 0.3968 +/- 0.0053 | Std Dev: 0.3720 +/- 0.0051 |

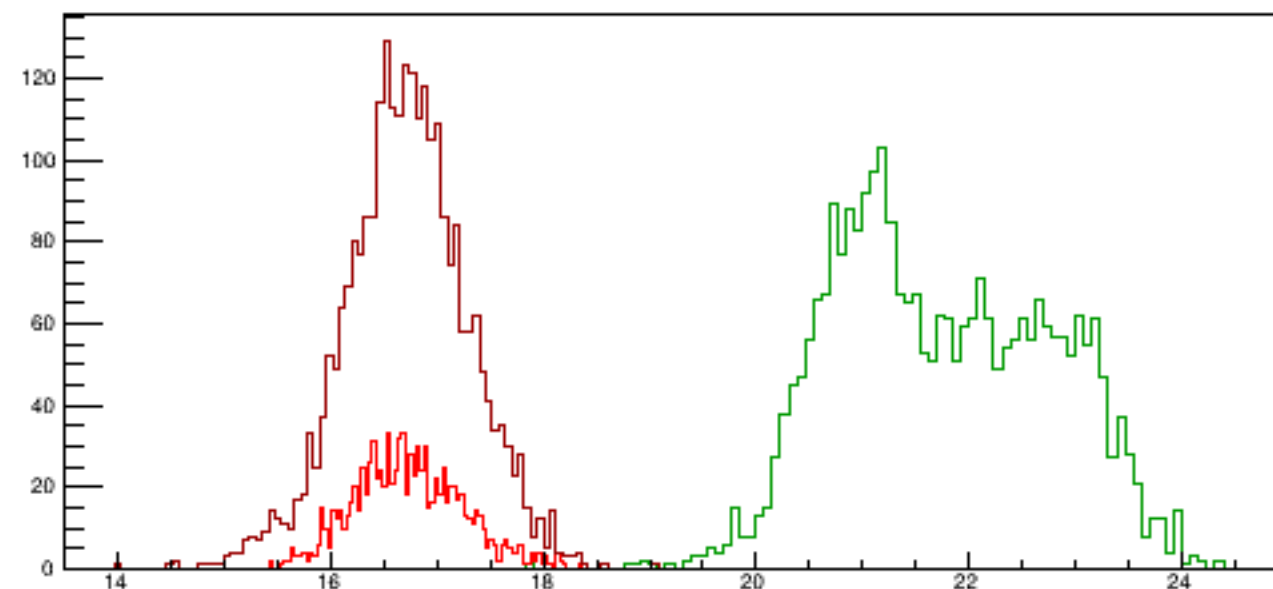
Run 4460 quartetwise, Diffs



## Cycle 7, Sums

| Entries: 979               | Entries: 2841              | Entries: 2675              |
|----------------------------|----------------------------|----------------------------|
| Mean: 16.7390 +/- 0.0163   | Mean: 21.7413 +/- 0.0189   | Mean: 16.7182 +/- 0.0112   |
| Std Dev: 0.5089 +/- 0.0115 | Std Dev: 1.0100 +/- 0.0134 | Std Dev: 0.5776 +/- 0.0079 |

Run 4460 quartetwise, Sums

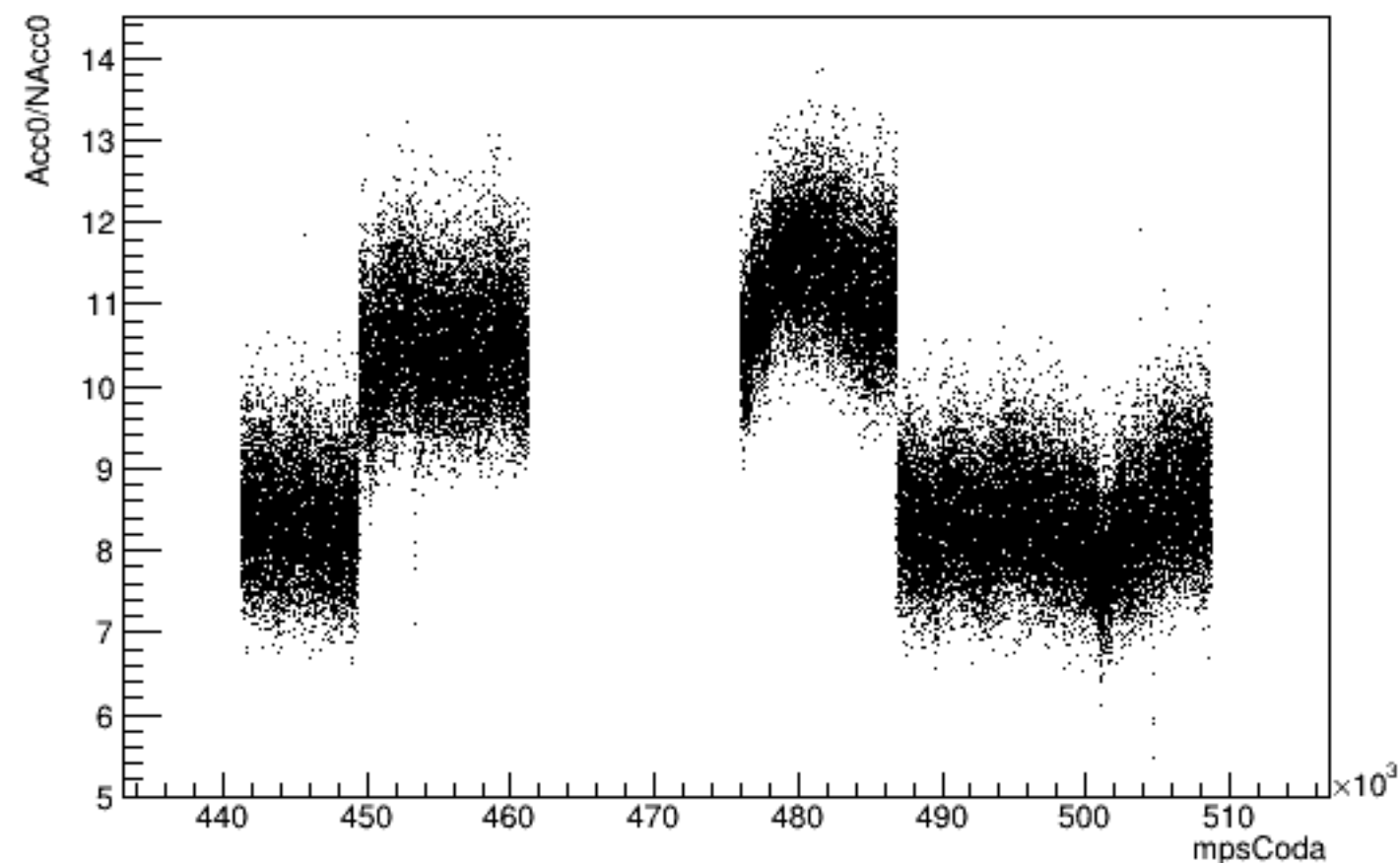
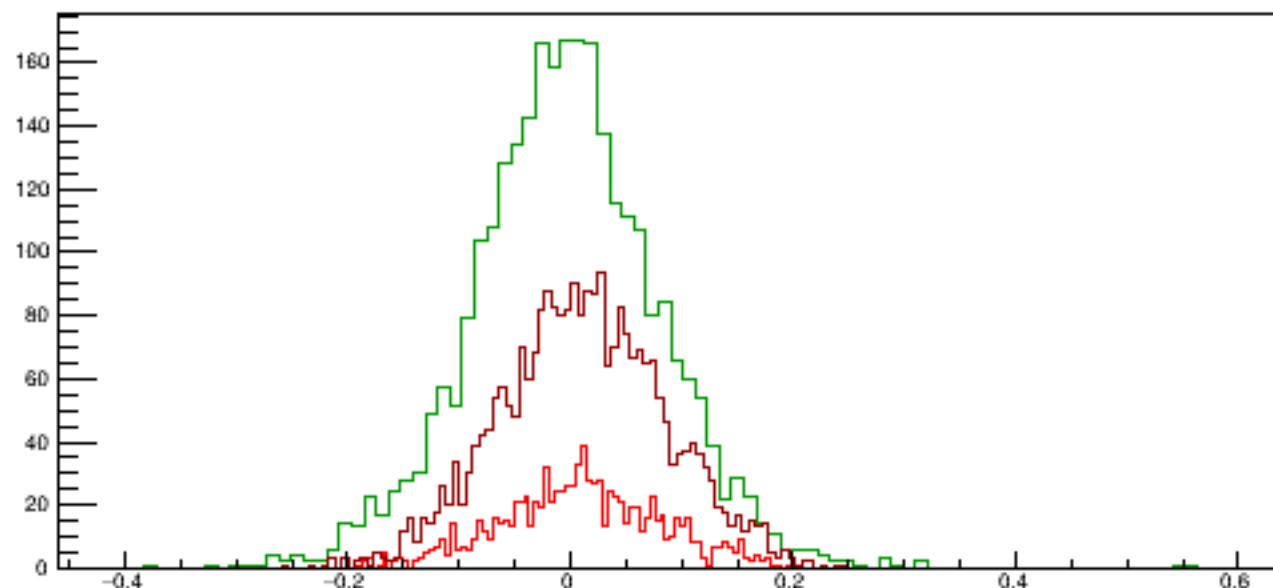


Acc0/NAcc0:mpsCoda (mpsCoda>=441228 && mpsCoda<=514075 && beamState==1)

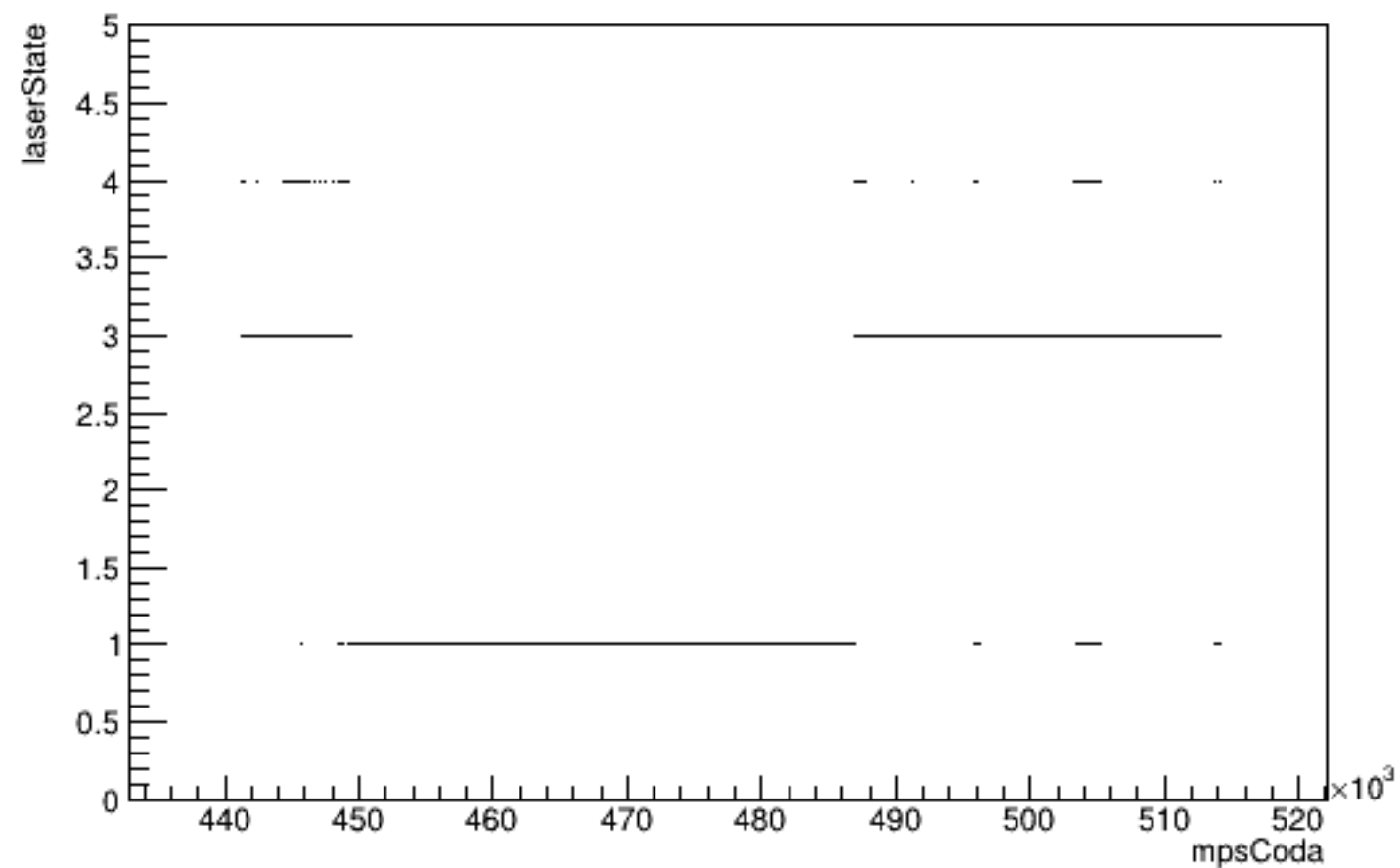
## Cycle 7, Asyms

| Entries: 979               | Entries: 2841              | Entries: 2675              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0092 +/- 0.0023    | Mean: -0.0039 +/- 0.0016   | Mean: 0.0113 +/- 0.0014    |
| Std Dev: 0.0724 +/- 0.0016 | Std Dev: 0.0843 +/- 0.0011 | Std Dev: 0.0742 +/- 0.0010 |

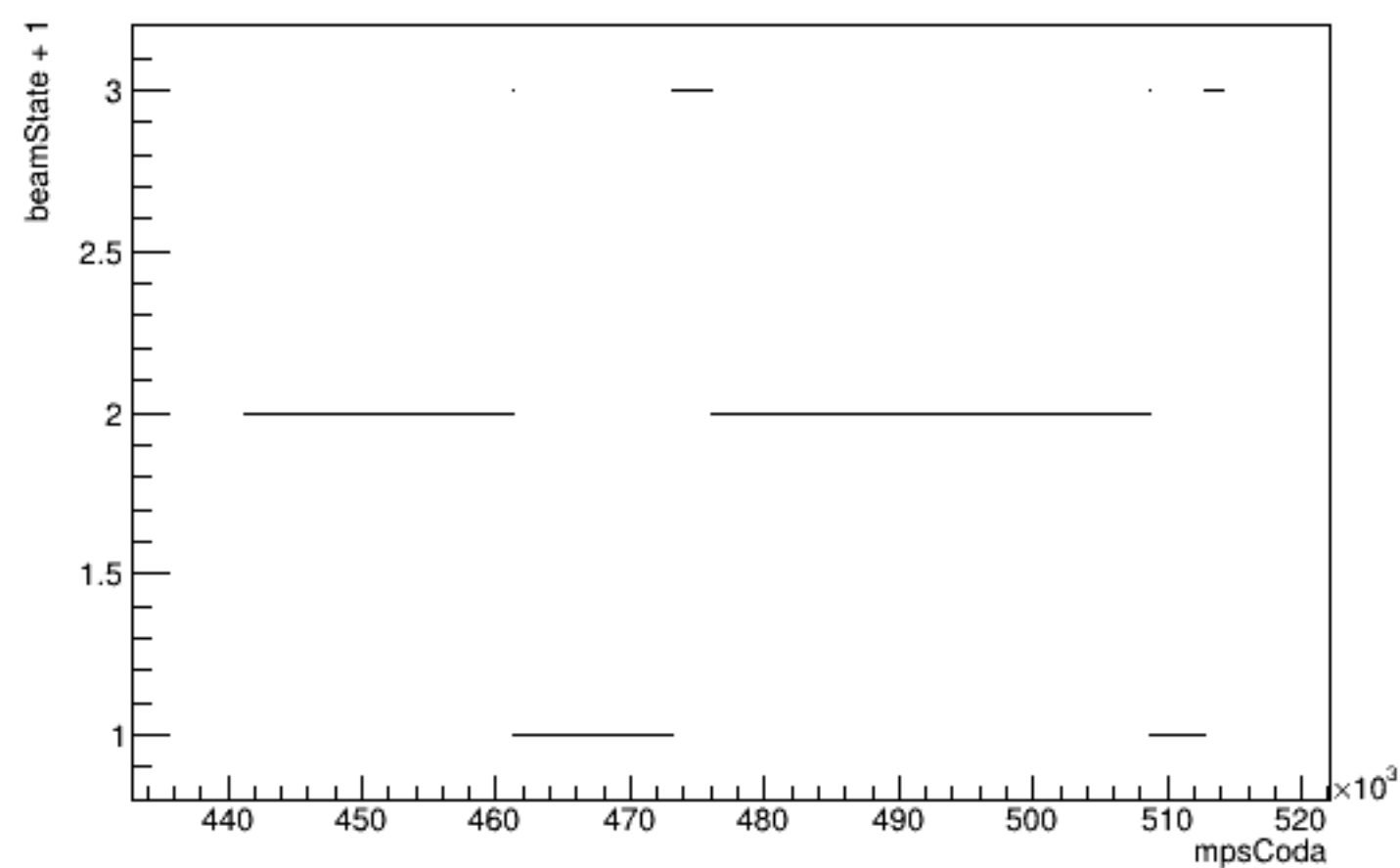
Run 4460 quartetwise, Asyms



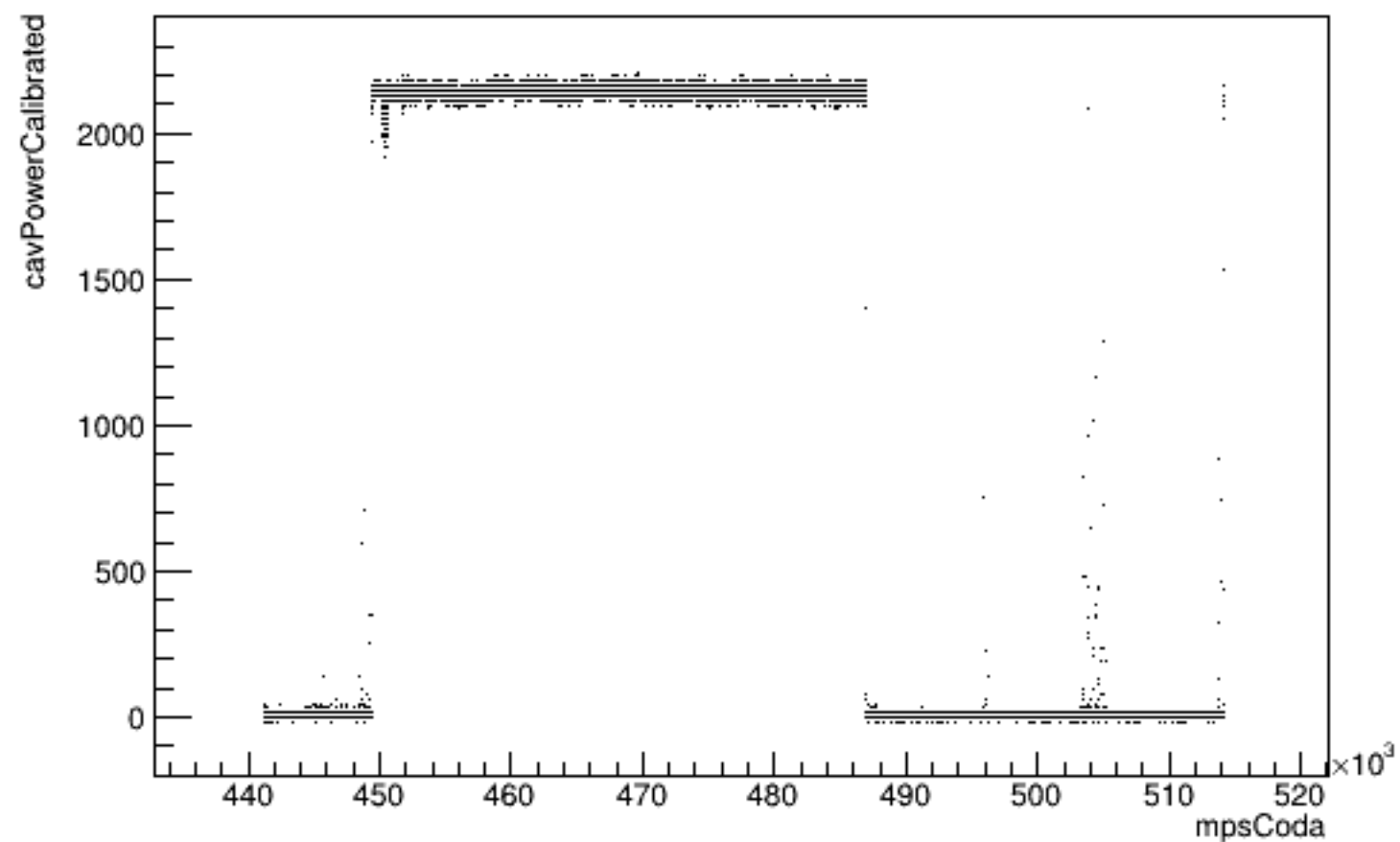
laserState:mpsCoda {mpsCoda&gt;=441228 &amp;&amp; mpsCoda&lt;=514075}



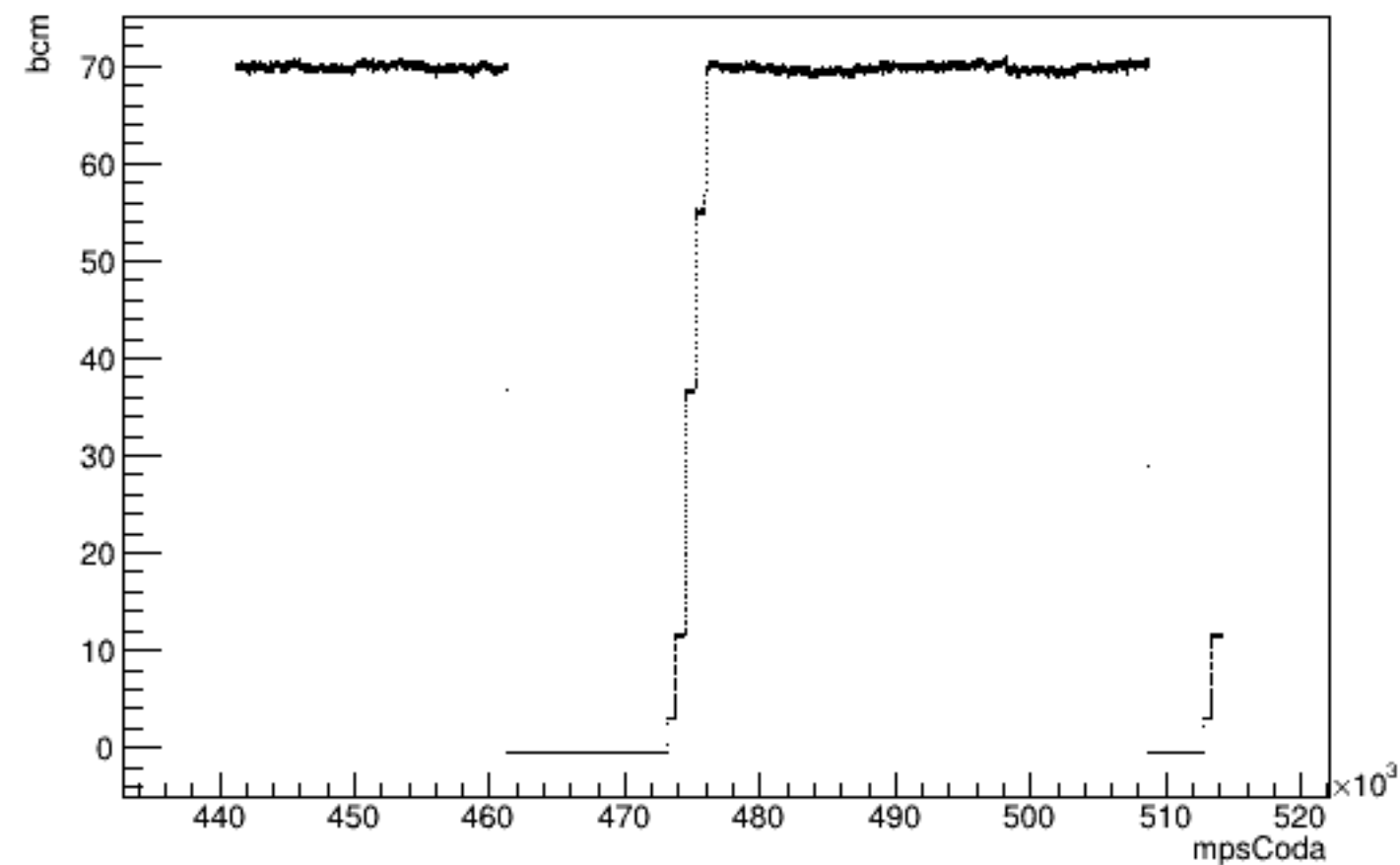
beamState + 1:mpsCoda {mpsCoda&gt;=441228 &amp;&amp; mpsCoda&lt;=514075}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=441228 &amp;&amp; mpsCoda&lt;=514075}



bcm:mpsCoda {mpsCoda&gt;=441228 &amp;&amp; mpsCoda&lt;=514075}



## Cycle 8, Diffs

Entries: 2675

Mean: 0.0568 +/- 0.0072

Std Dev: 0.3720 +/- 0.0051

Entries: 4434

Mean: -0.0471 +/- 0.0061

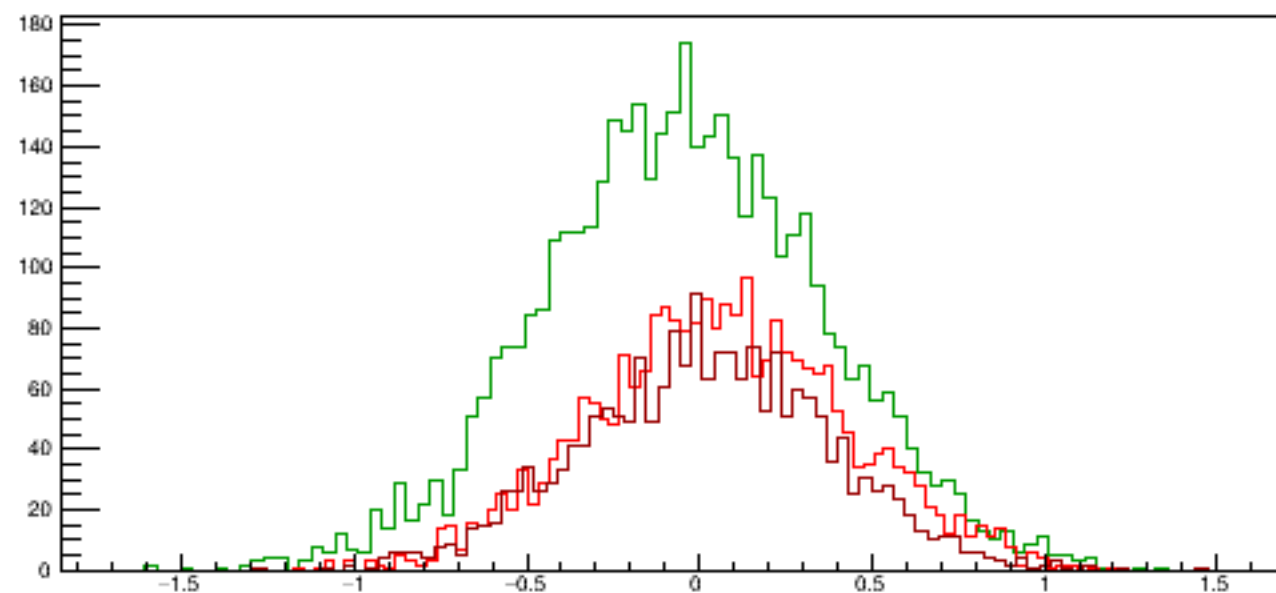
Std Dev: 0.4086 +/- 0.0043

Entries: 1978

Mean: 0.0160 +/- 0.0081

Std Dev: 0.3605 +/- 0.0057

Run 4460 quartetwise, Diffs



## Cycle 8, Sums

Entries: 2675

Mean: 16.7182 +/- 0.0112

Std Dev: 0.5776 +/- 0.0079

Entries: 4434

Mean: 23.1520 +/- 0.0083

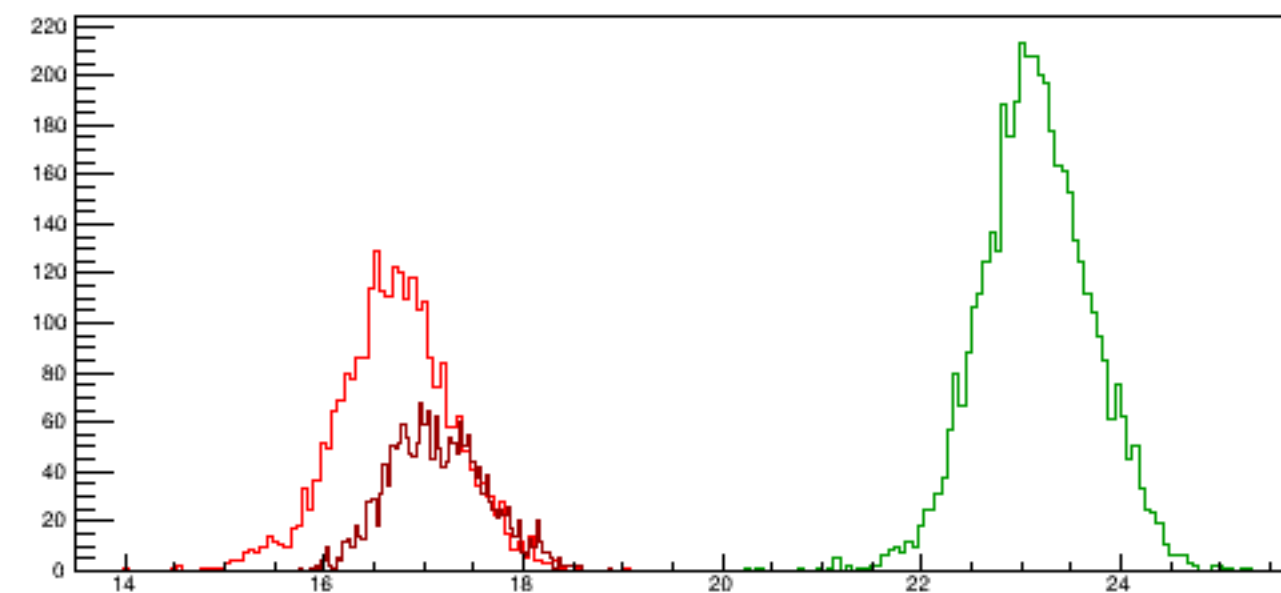
Std Dev: 0.5556 +/- 0.0059

Entries: 1978

Mean: 17.1501 +/- 0.0110

Std Dev: 0.4909 +/- 0.0078

Run 4460 quartetwise, Sums



## Cycle 8, Asyms

Entries: 2675

Mean: 0.0091 +/- 0.0012

Std Dev: 0.0598 +/- 0.0008

Entries: 4434

Mean: -0.0077 +/- 0.0010

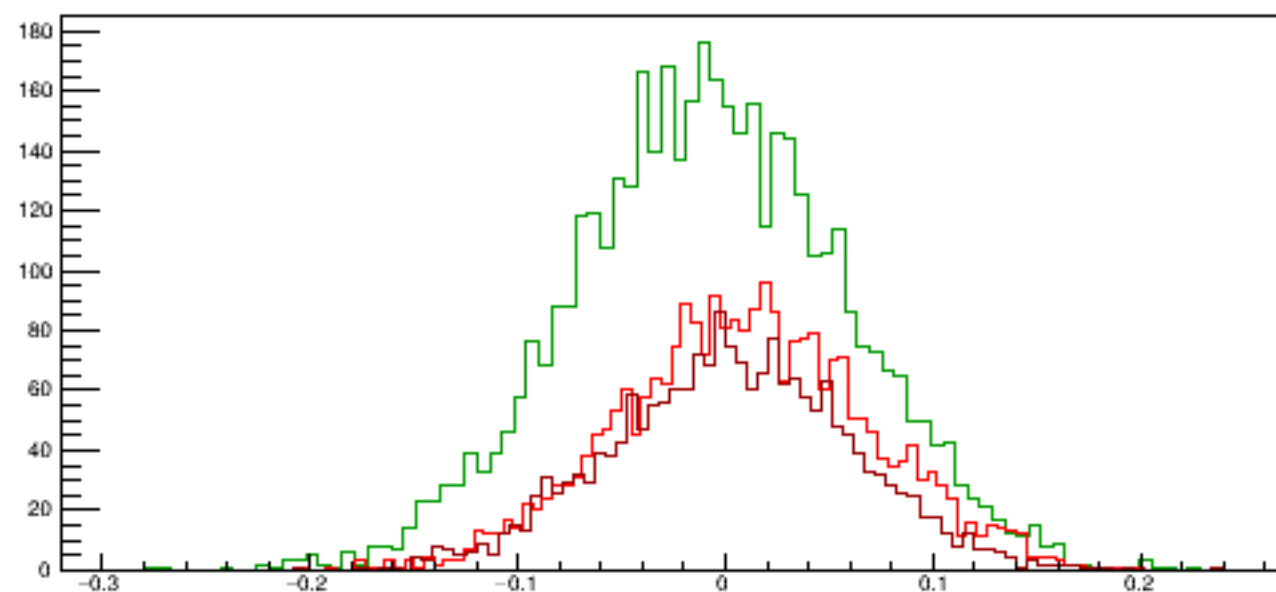
Std Dev: 0.0659 +/- 0.0007

Entries: 1978

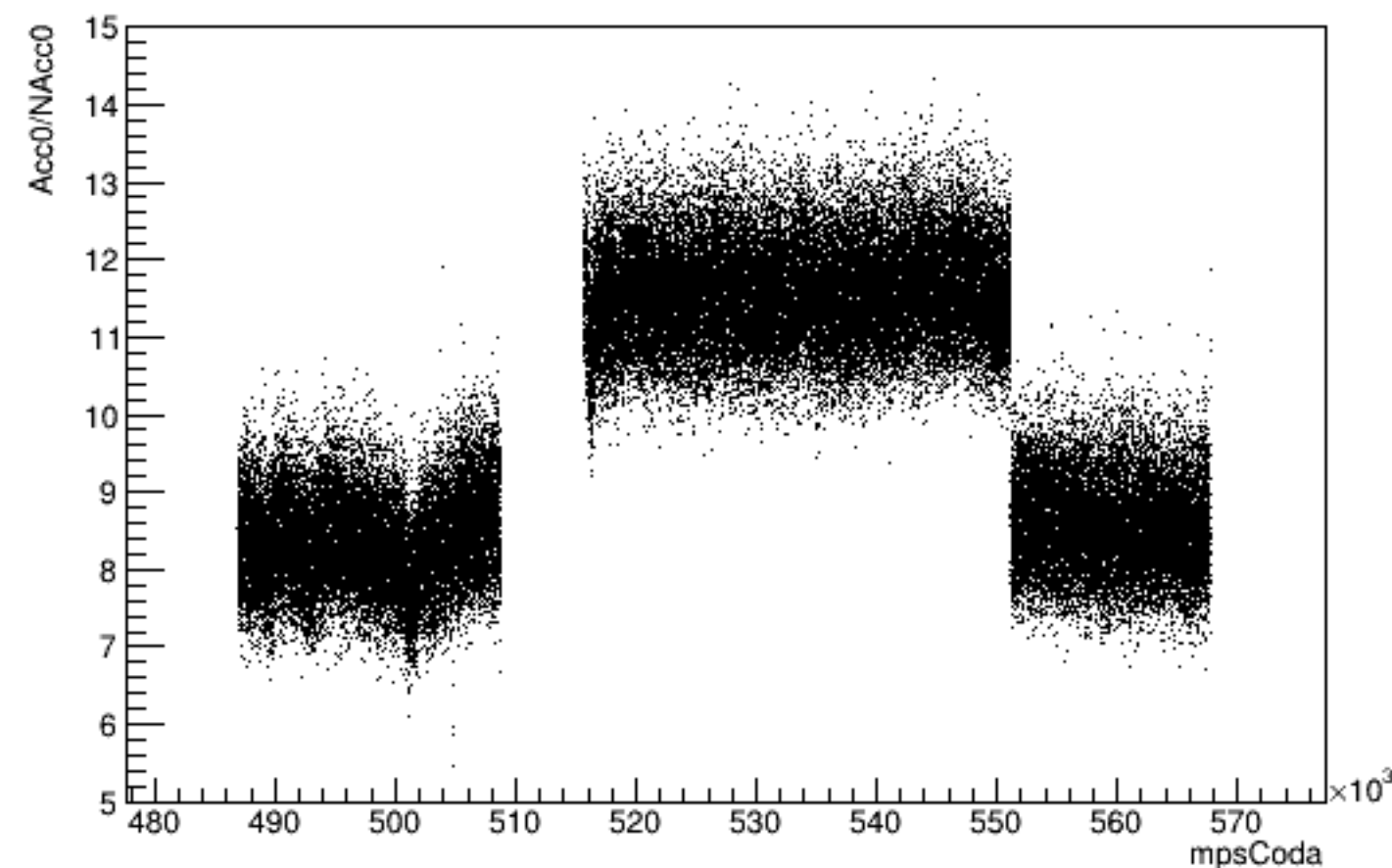
Mean: 0.0026 +/- 0.0013

Std Dev: 0.0580 +/- 0.0009

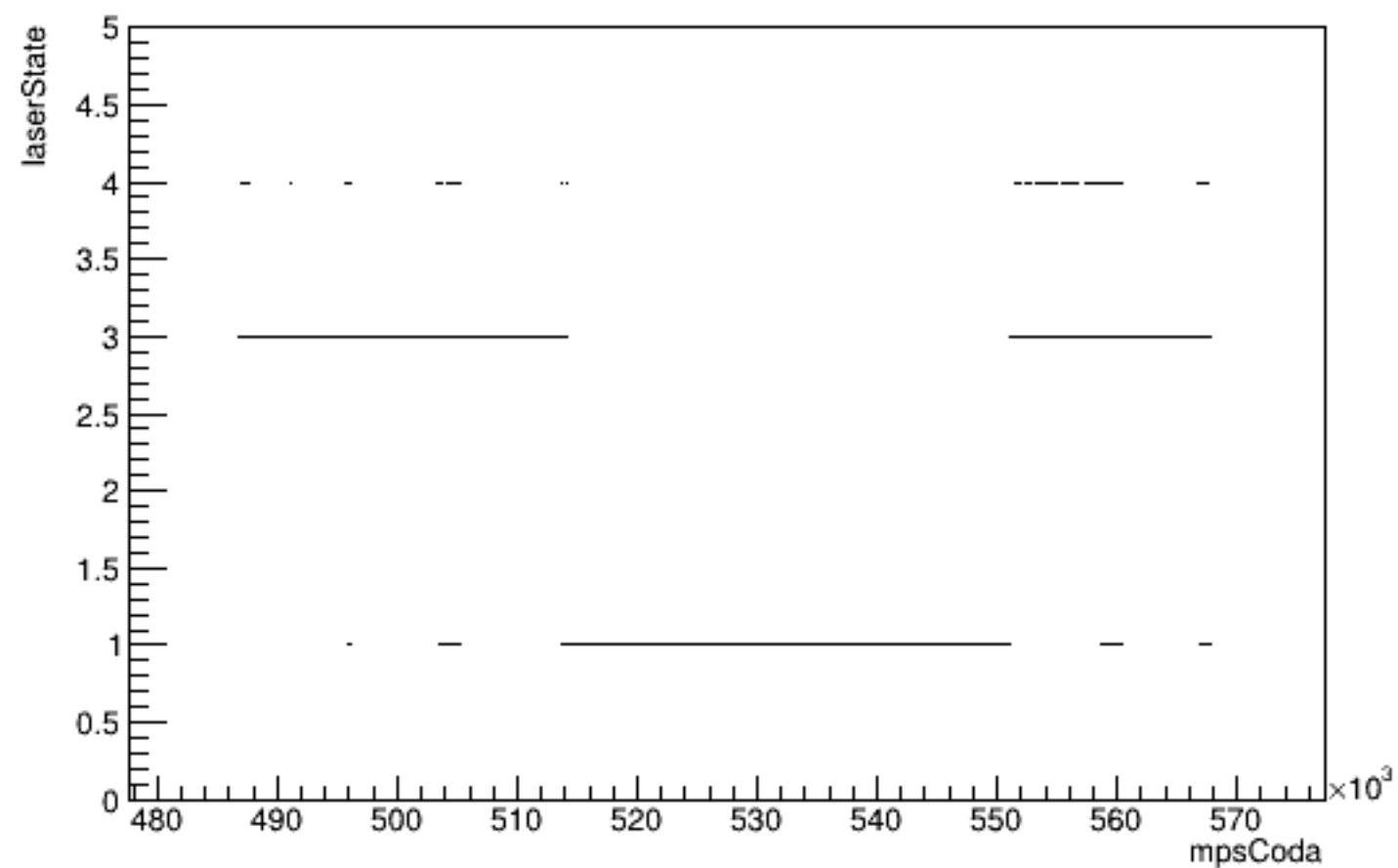
Run 4460 quartetwise, Asyms



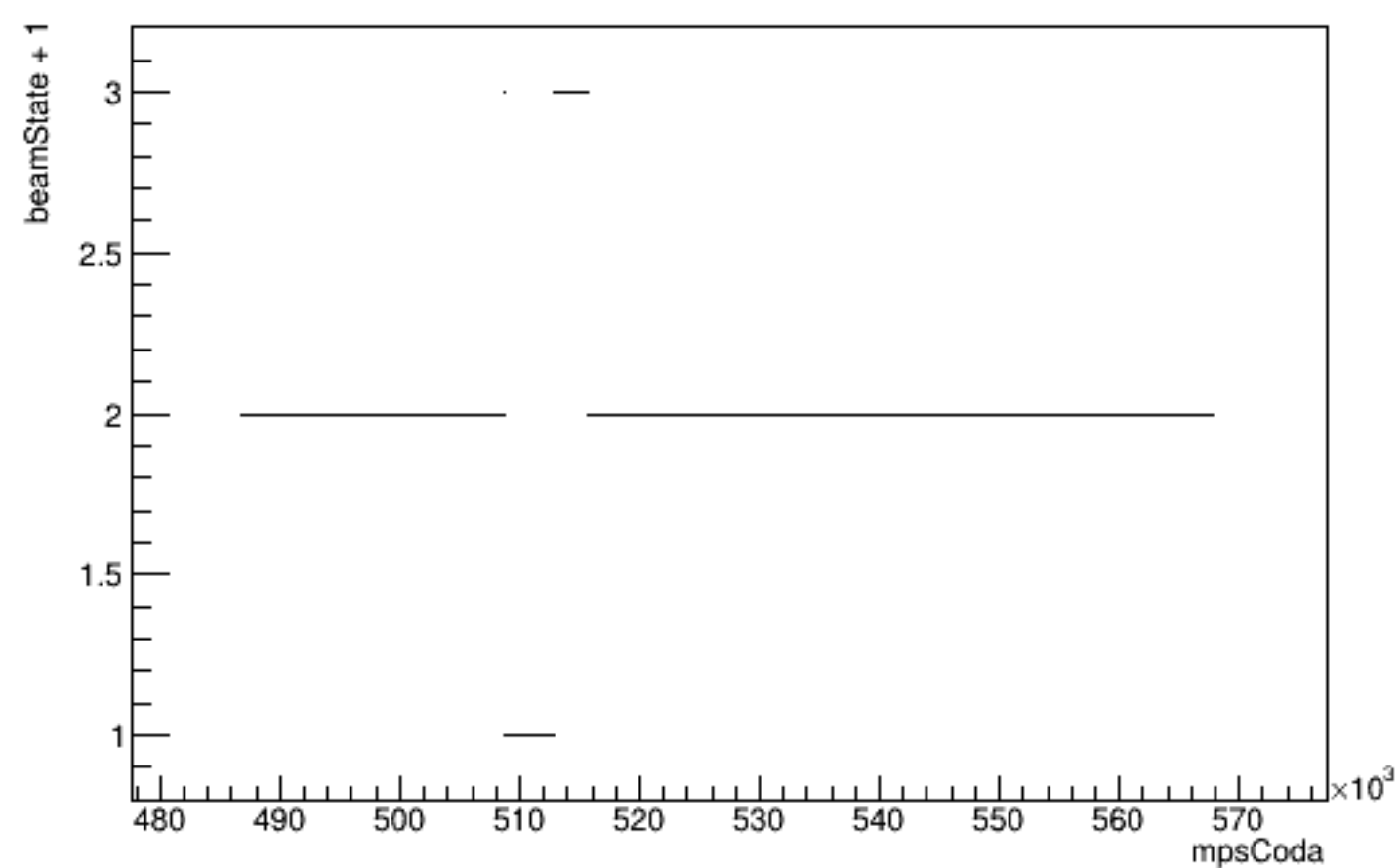
Acc0/NAcc0:mpsCoda (mpsCoda>=486884 && mpsCoda<=567707 && beamState==1)



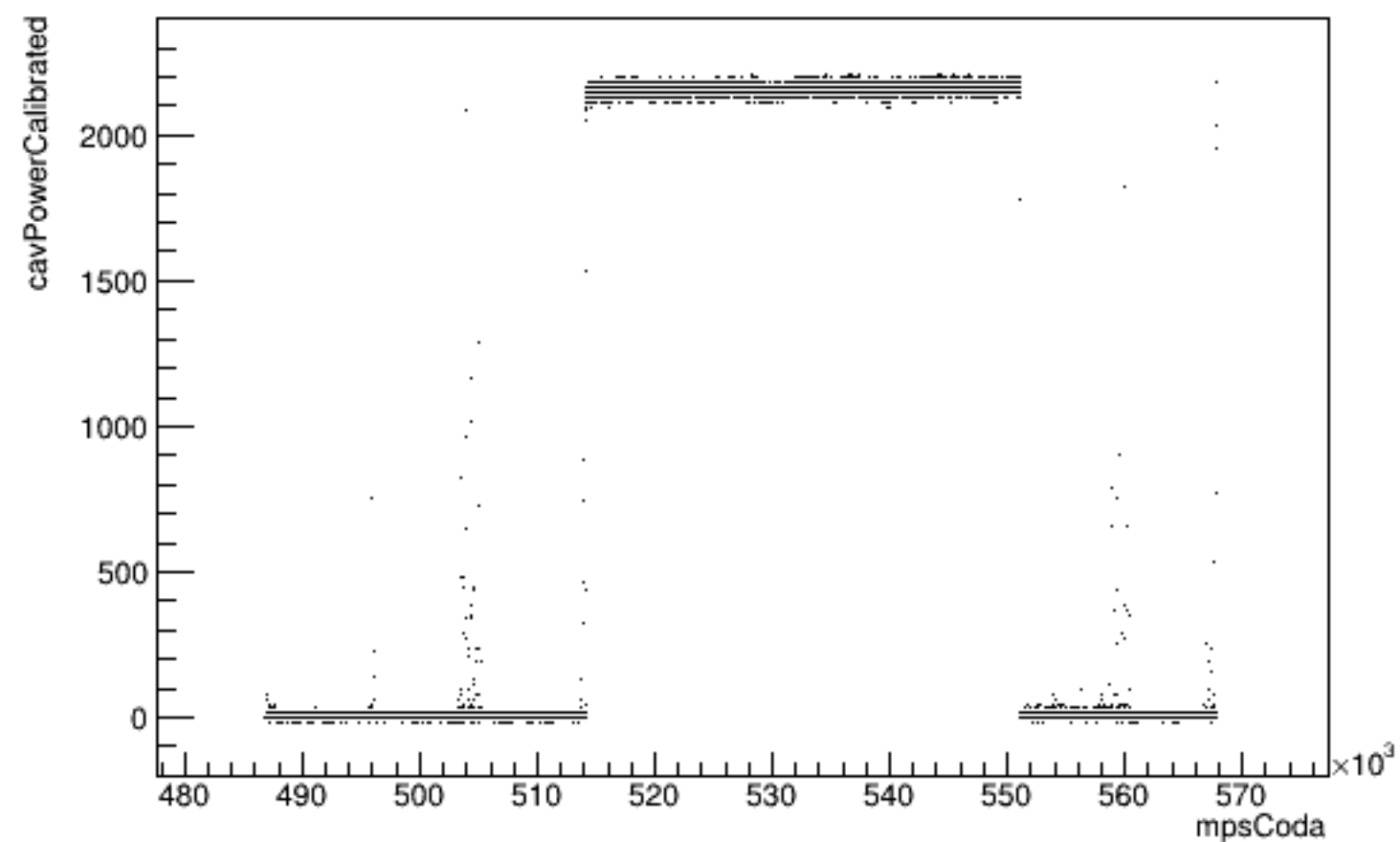
laserState:mpsCoda {mpsCoda&gt;=486884 &amp;&amp; mpsCoda&lt;=567707}



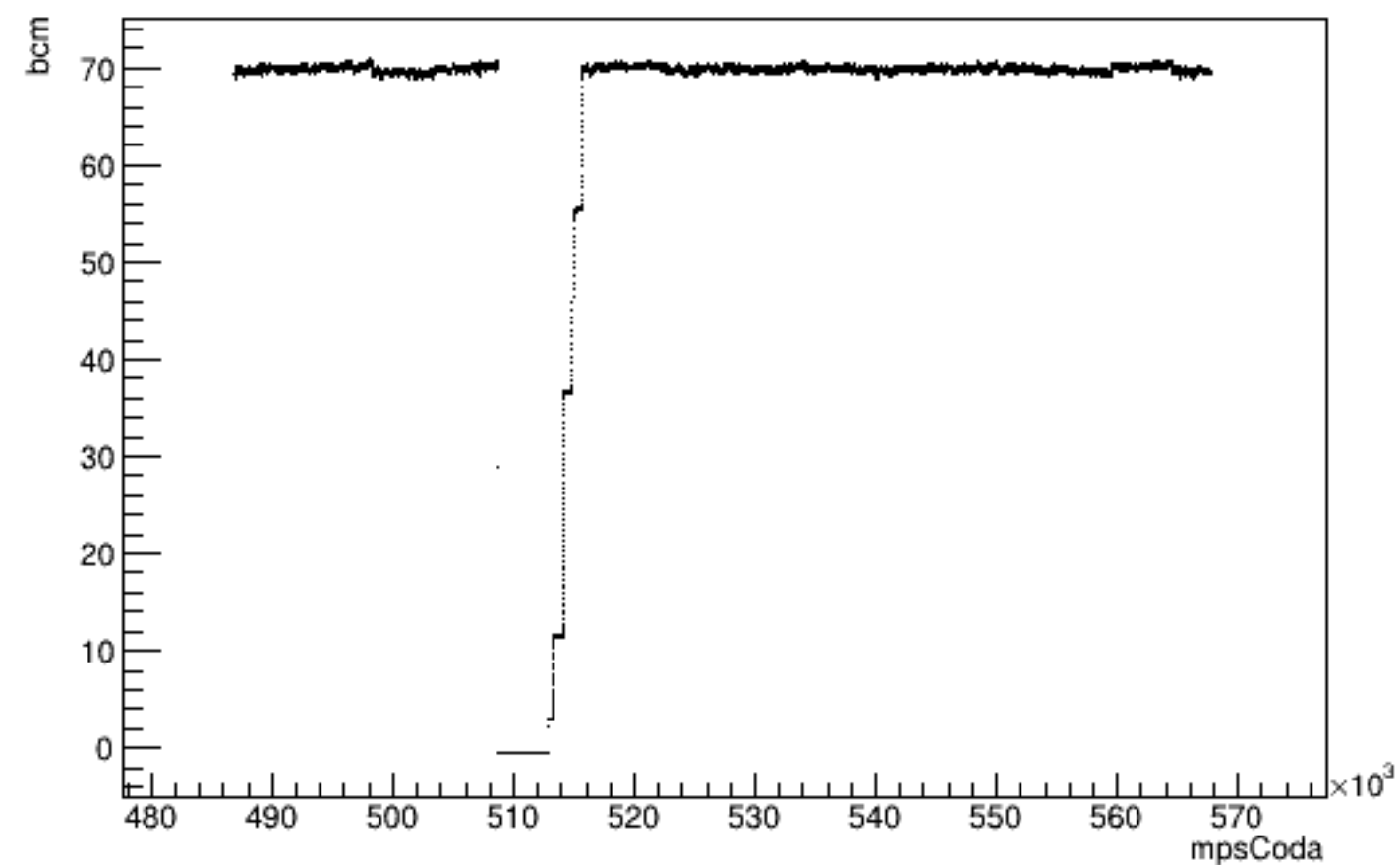
beamState + 1:mpsCoda {mpsCoda&gt;=486884 &amp;&amp; mpsCoda&lt;=567707}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=486884 &amp;&amp; mpsCoda&lt;=567707}



bcm:mpsCoda {mpsCoda&gt;=486884 &amp;&amp; mpsCoda&lt;=567707}



## Cycle 9, Diffs

Entries: 1978

Mean: 0.0160 +/- 0.0081

Std Dev: 0.3605 +/- 0.0057

Entries: 4551

Mean: -0.0527 +/- 0.0058

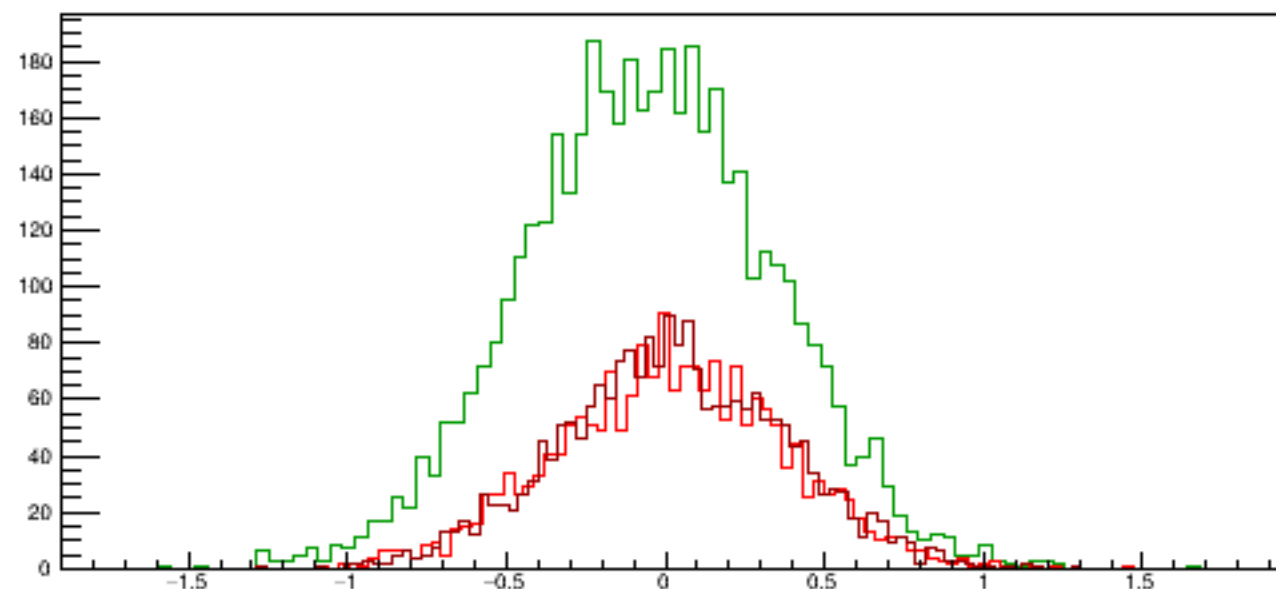
Std Dev: 0.3918 +/- 0.0041

Entries: 2198

Mean: 0.0211 +/- 0.0075

Std Dev: 0.3534 +/- 0.0053

Run 4460 quartetwise, Diffs



## Cycle 9, Sums

Entries: 1978

Mean: 17.1501 +/- 0.0110

Std Dev: 0.4909 +/- 0.0078

Entries: 4551

Mean: 22.8084 +/- 0.0090

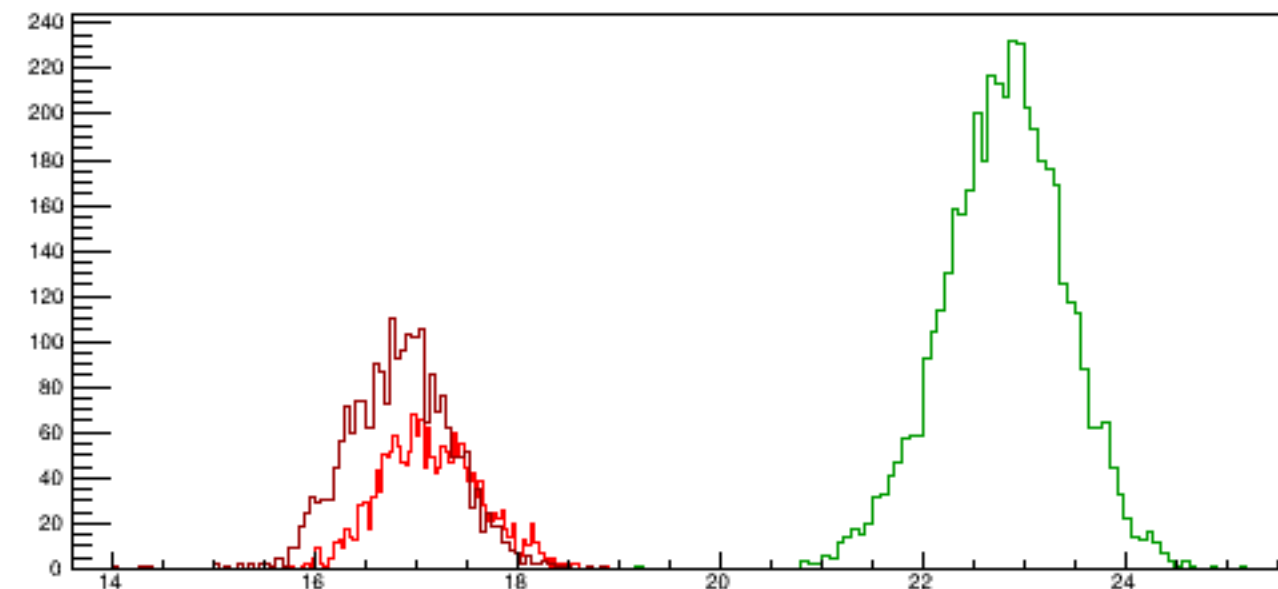
Std Dev: 0.6070 +/- 0.0064

Entries: 2198

Mean: 16.8410 +/- 0.0110

Std Dev: 0.5140 +/- 0.0078

Run 4460 quartetwise, Sums



## Cycle 9, Asyms

Entries: 1978

Mean: 0.0028 +/- 0.0014

Std Dev: 0.0620 +/- 0.0010

Entries: 4551

Mean: -0.0091 +/- 0.0010

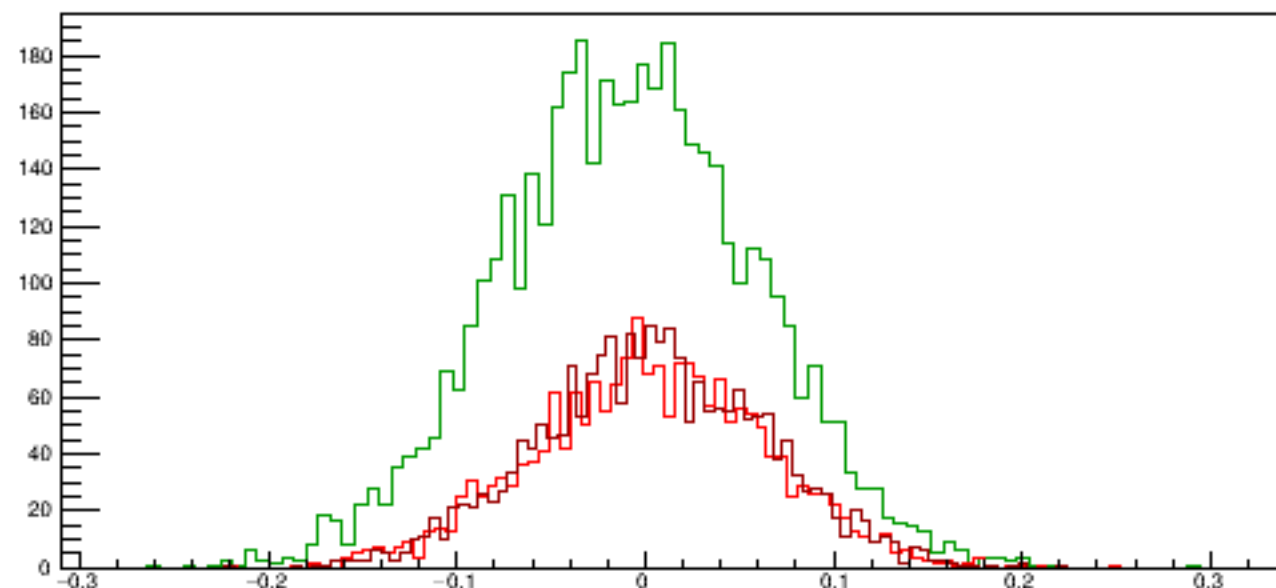
Std Dev: 0.0679 +/- 0.0007

Entries: 2198

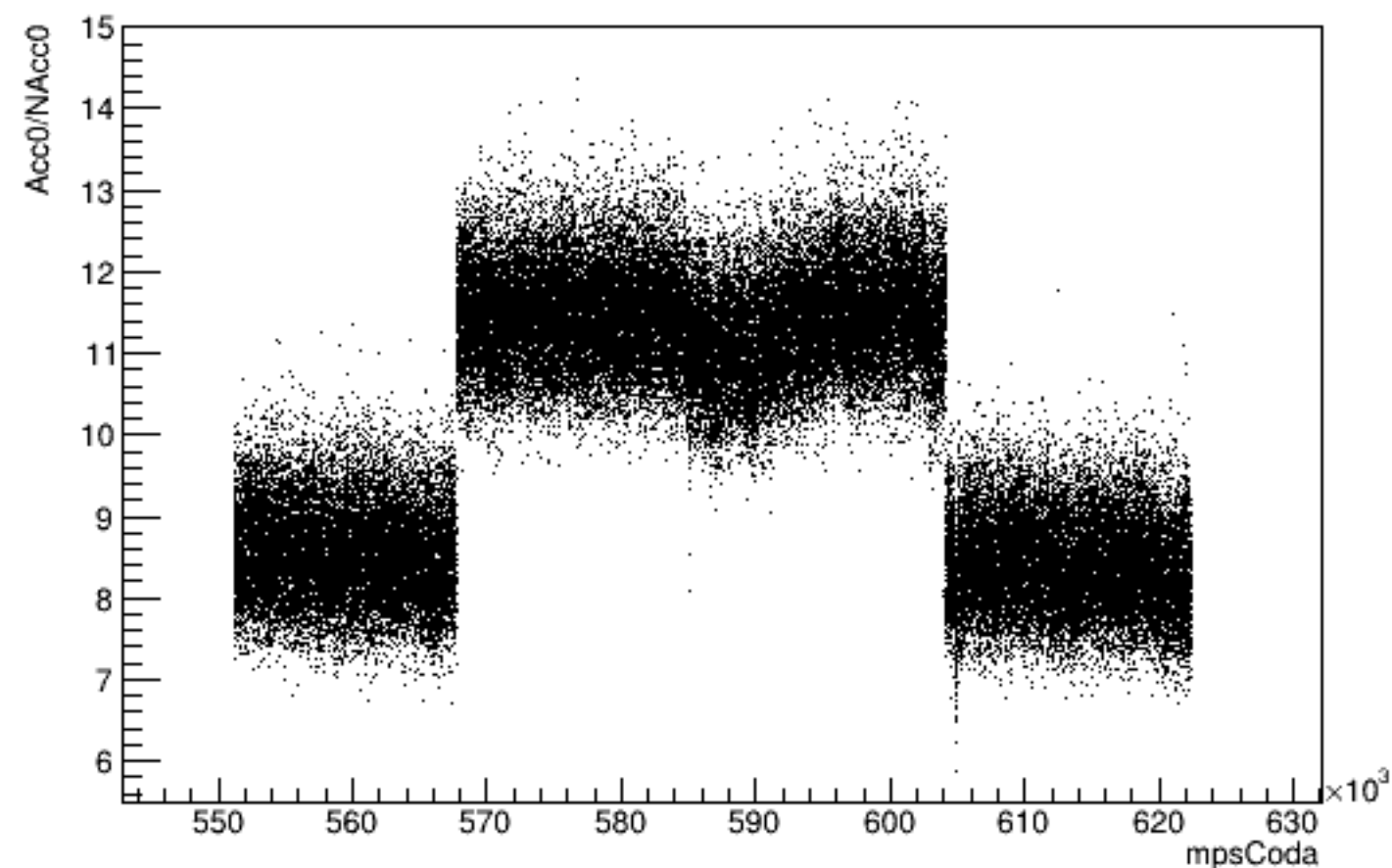
Mean: 0.0036 +/- 0.0013

Std Dev: 0.0608 +/- 0.0009

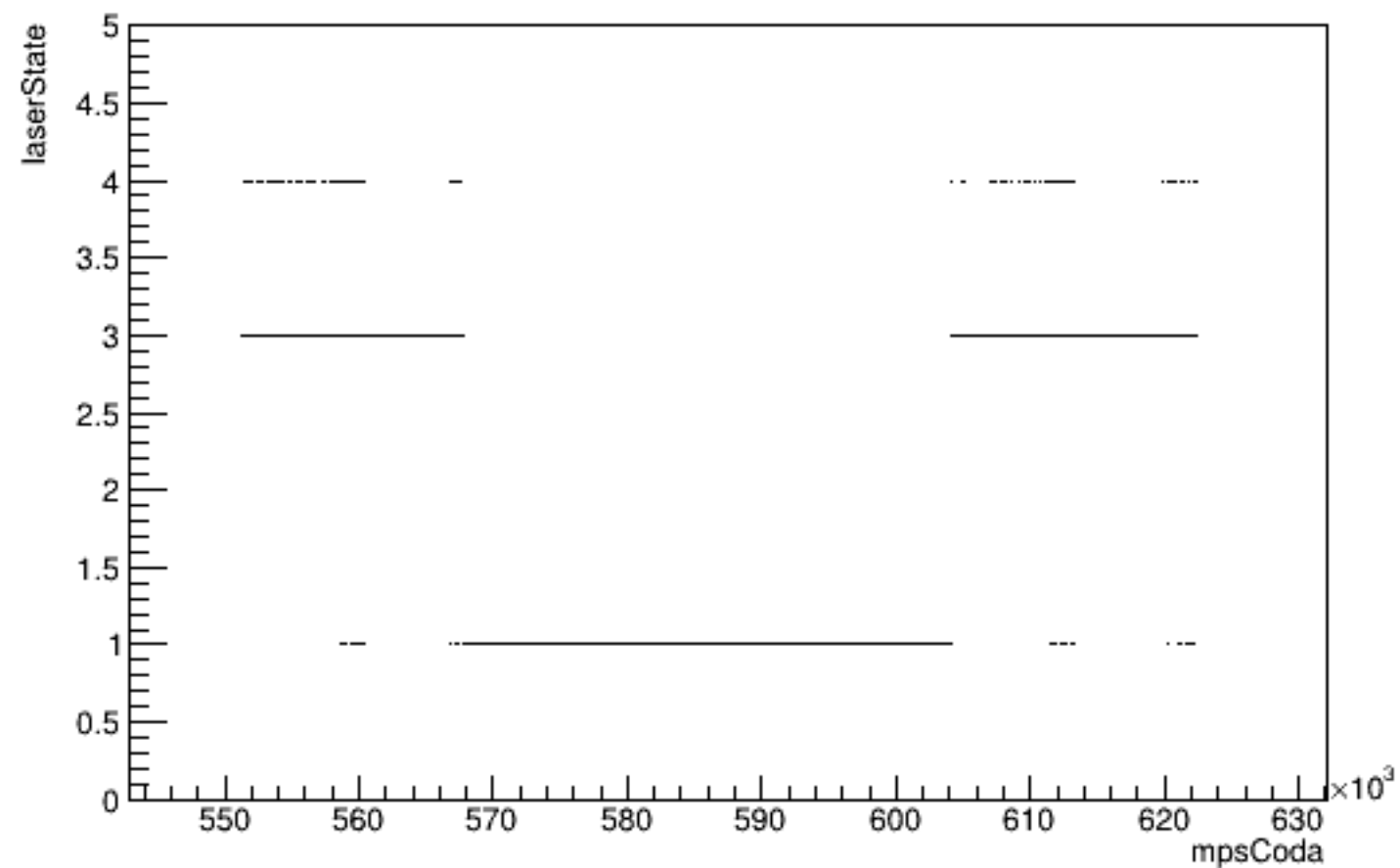
Run 4460 quartetwise, Asyms



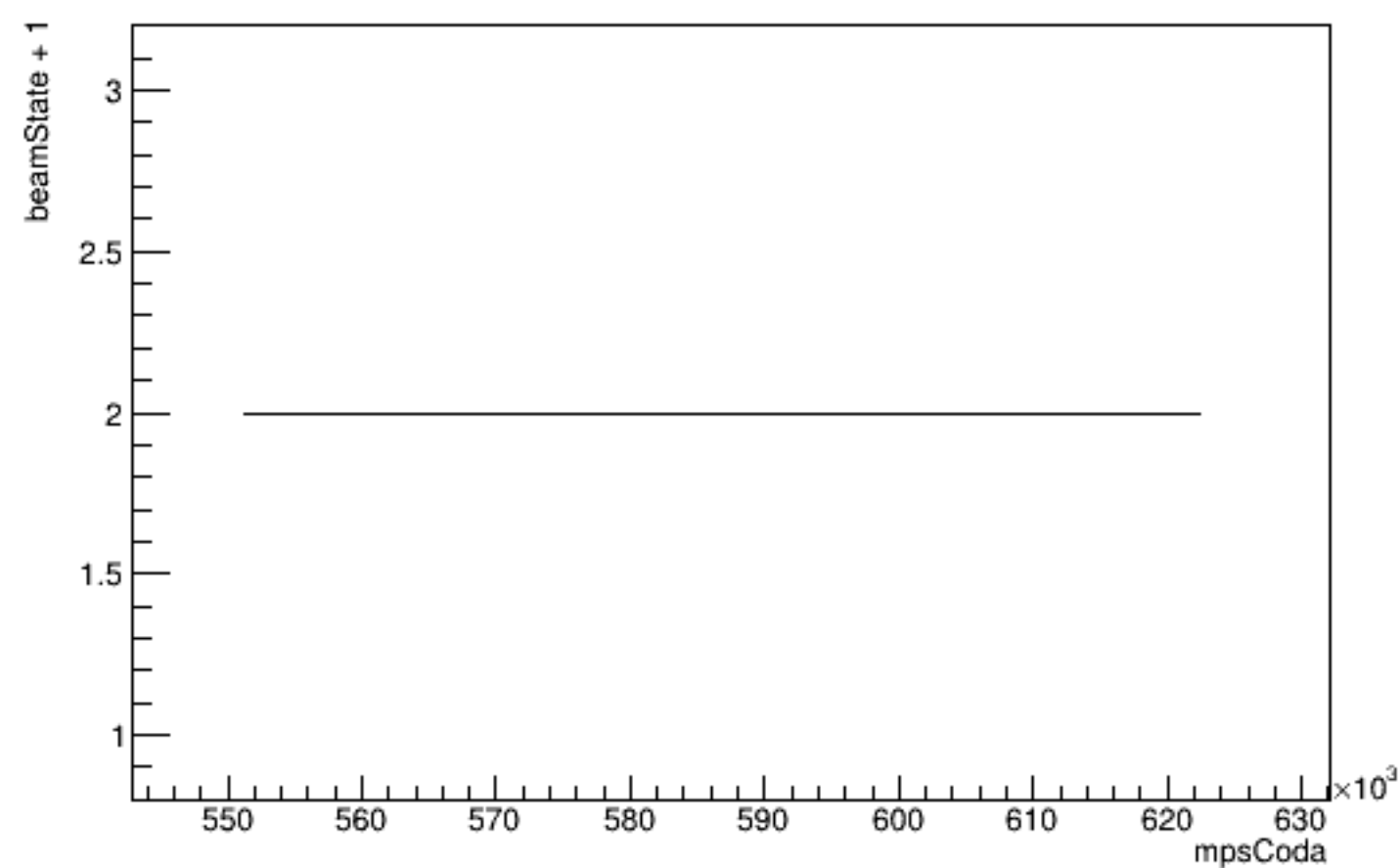
Acc0/NAcc0:mpsCoda (mpsCoda>=551164 && mpsCoda<=622355 && beamState==1)



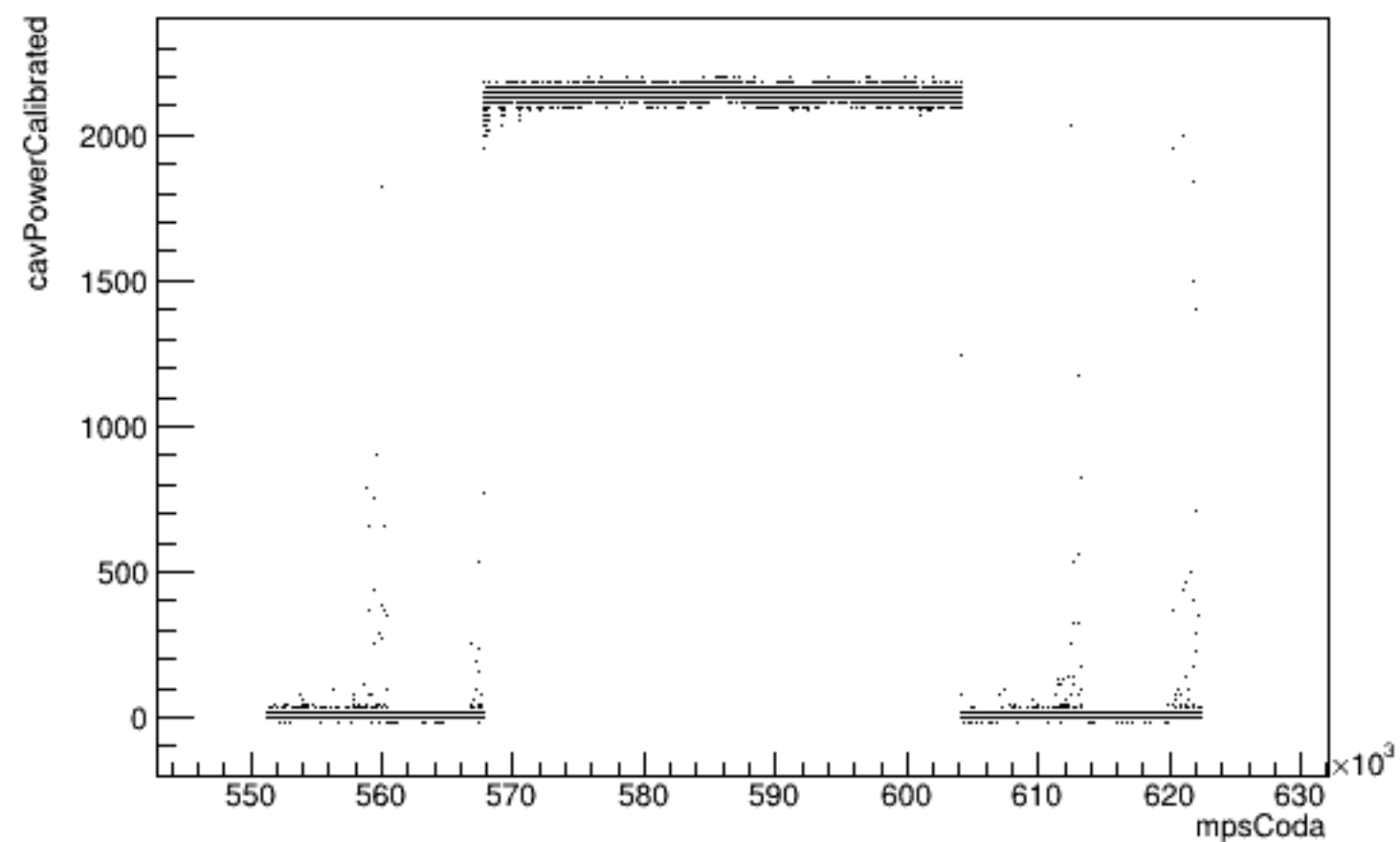
laserState:mpsCoda {mpsCoda&gt;=551164 &amp;&amp; mpsCoda&lt;=622355}



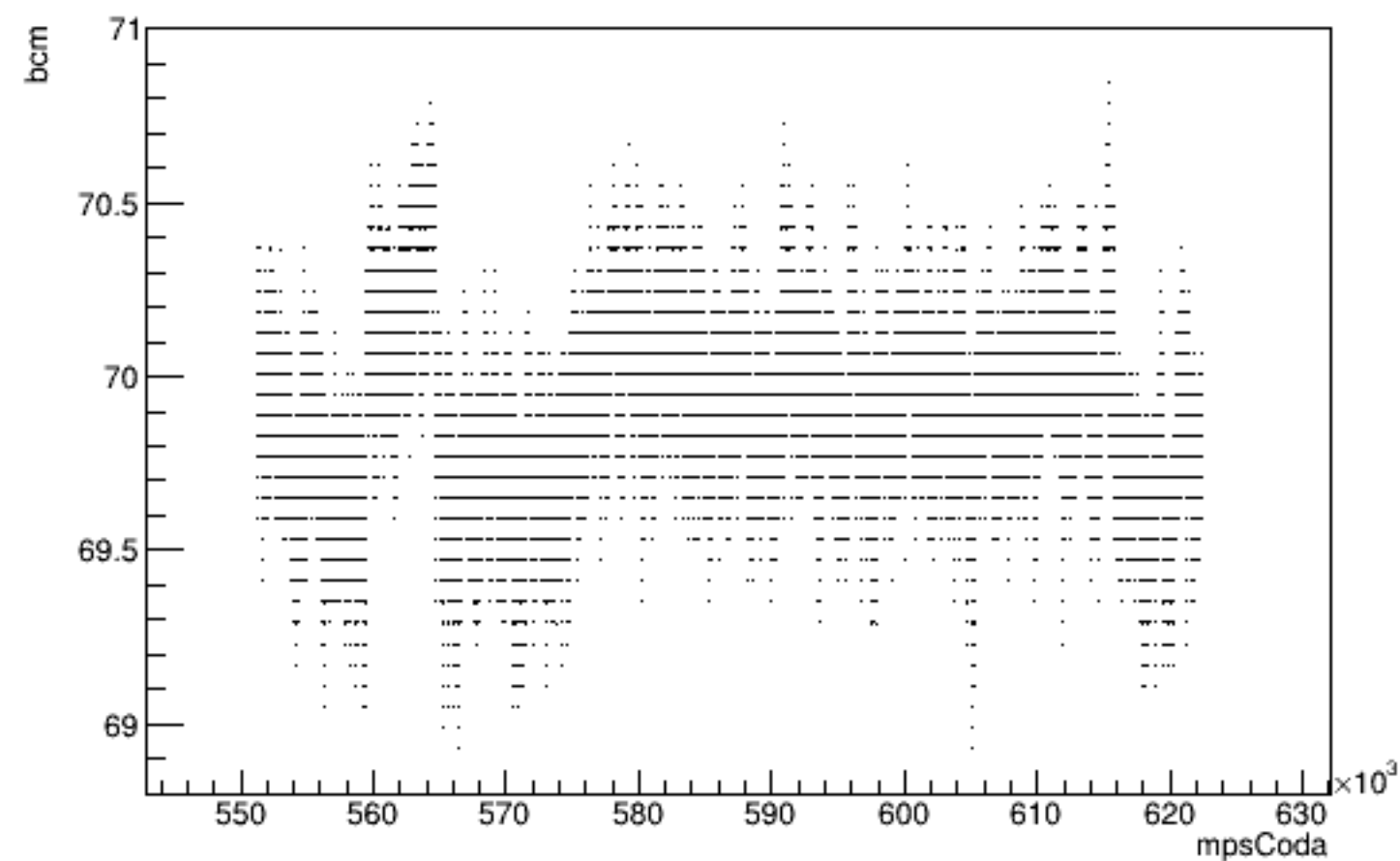
beamState + 1:mpsCoda {mpsCoda&gt;=551164 &amp;&amp; mpsCoda&lt;=622355}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=551164 &amp;&amp; mpsCoda&lt;=622355}



bcm:mpsCoda {mpsCoda&gt;=551164 &amp;&amp; mpsCoda&lt;=622355}



## Cycle 10, Diffs

Entries: 2198

Mean: 0.0211 +/- 0.0075

Std Dev: 0.3534 +/- 0.0053

Entries: 4651

Mean: -0.0667 +/- 0.0058

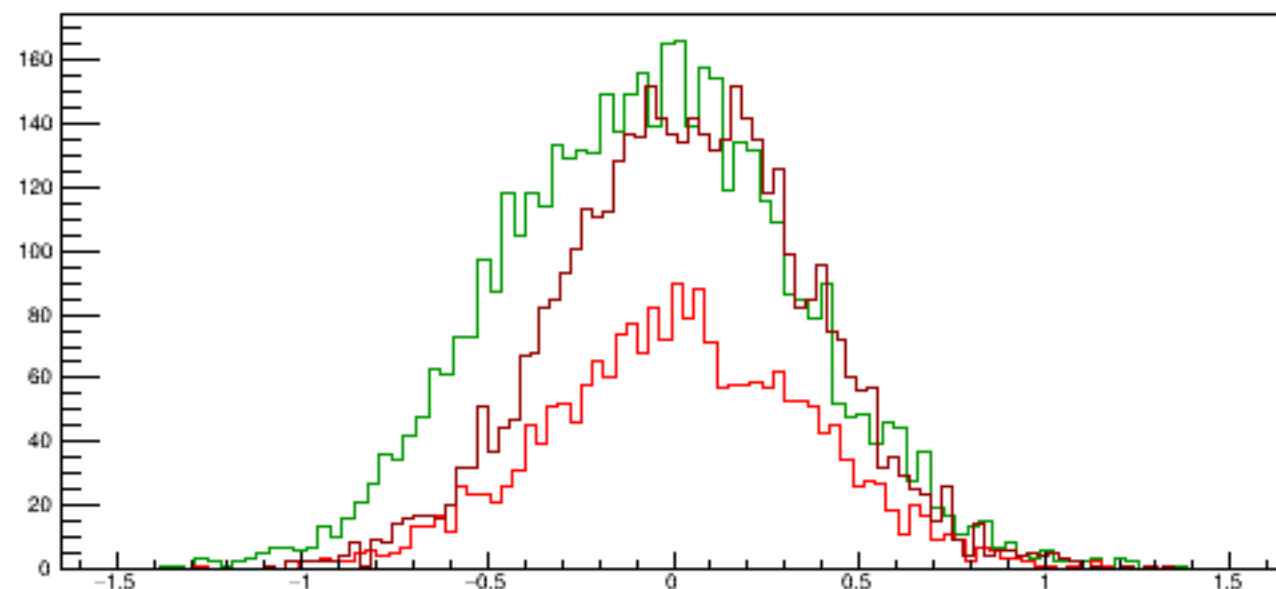
Std Dev: 0.3924 +/- 0.0041

Entries: 4338

Mean: 0.0356 +/- 0.0051

Std Dev: 0.3390 +/- 0.0036

Run 4460 quartetwise, Diffs



## Cycle 10, Sums

Entries: 2198

Mean: 16.8410 +/- 0.0110

Std Dev: 0.5140 +/- 0.0078

Entries: 4651

Mean: 22.5111 +/- 0.0073

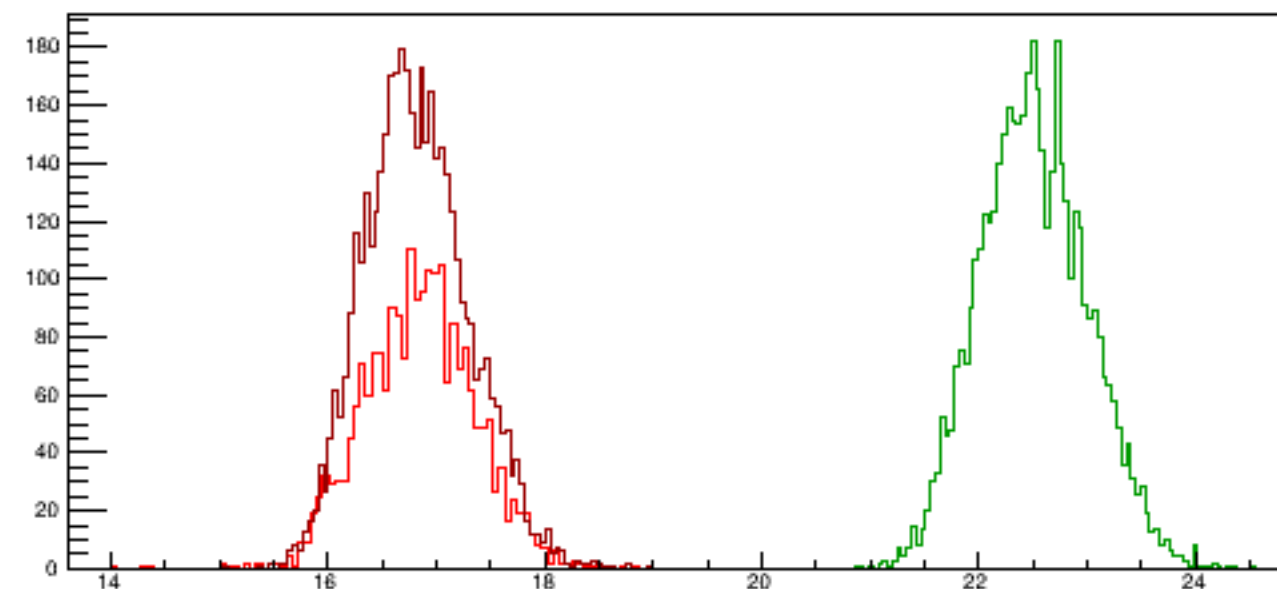
Std Dev: 0.4966 +/- 0.0051

Entries: 4338

Mean: 16.8205 +/- 0.0074

Std Dev: 0.4843 +/- 0.0052

Run 4460 quartetwise, Sums



## Cycle 10, Asyms

Entries: 2198

Mean: 0.0037 +/- 0.0013

Std Dev: 0.0622 +/- 0.0009

Entries: 4651

Mean: -0.0118 +/- 0.0010

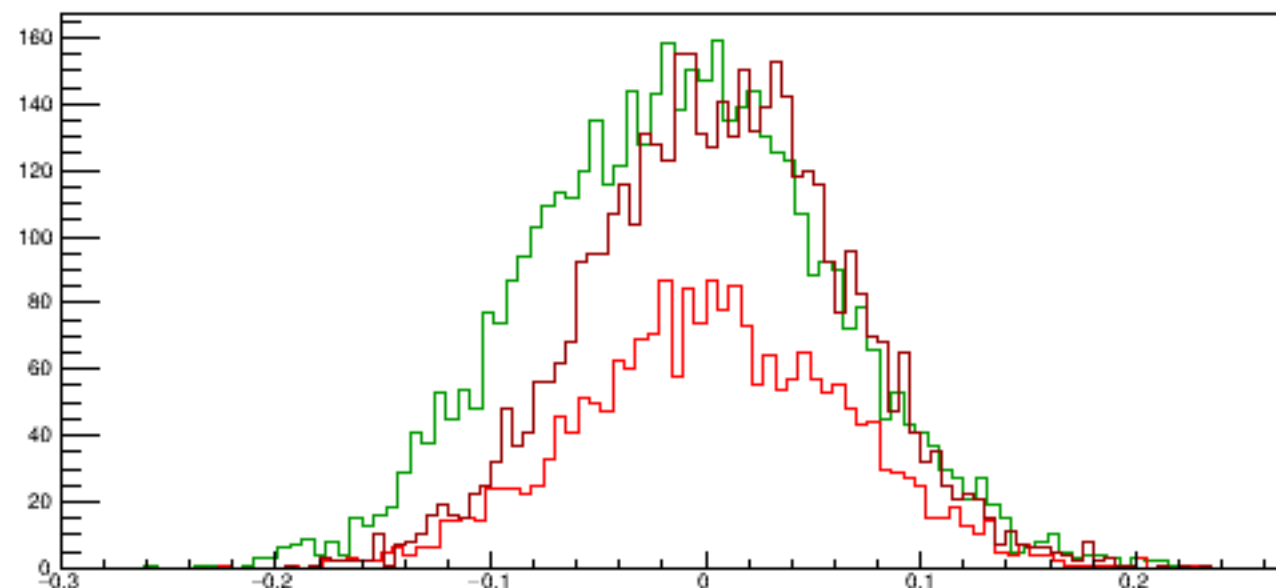
Std Dev: 0.0692 +/- 0.0007

Entries: 4338

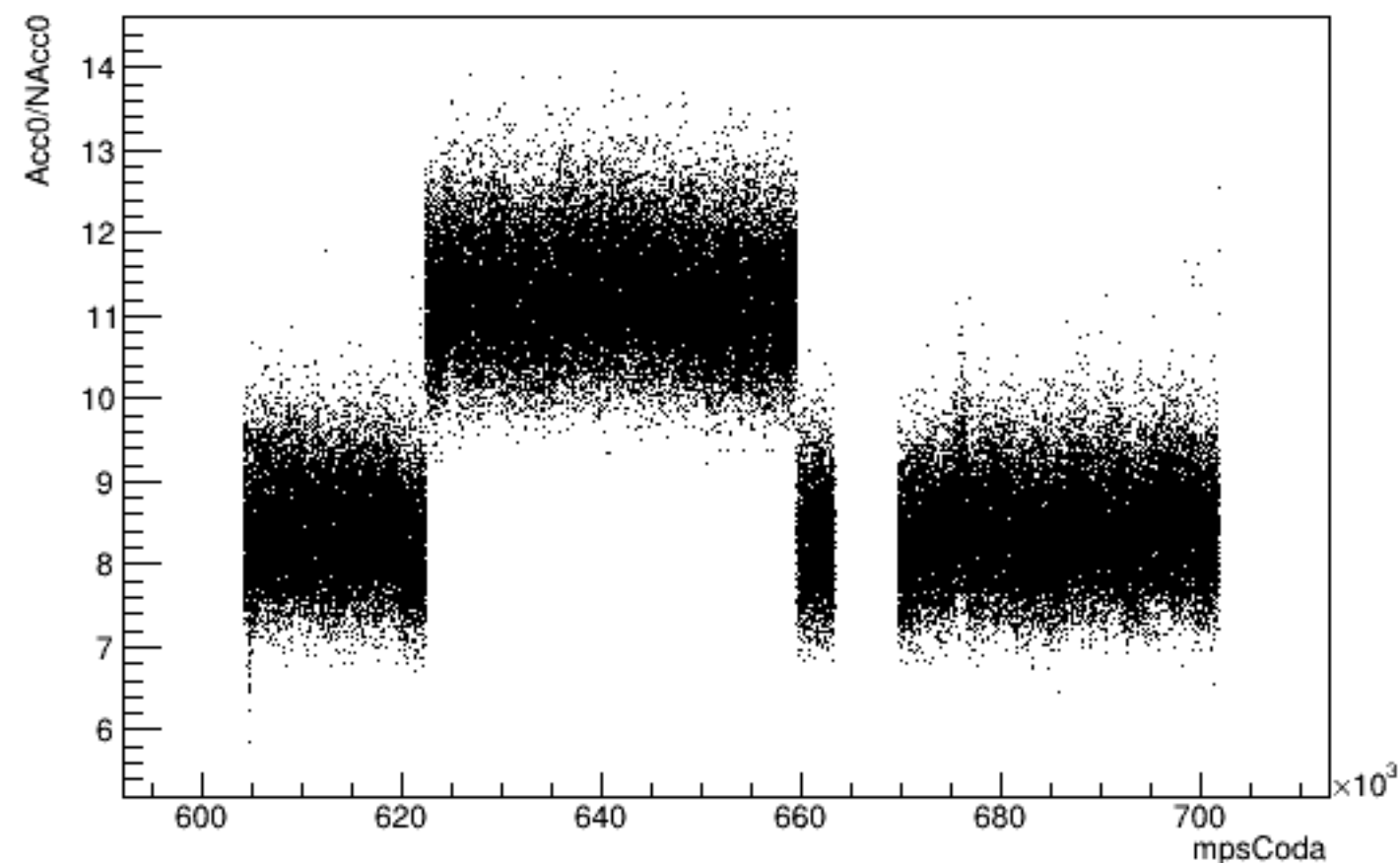
Mean: 0.0063 +/- 0.0009

Std Dev: 0.0597 +/- 0.0006

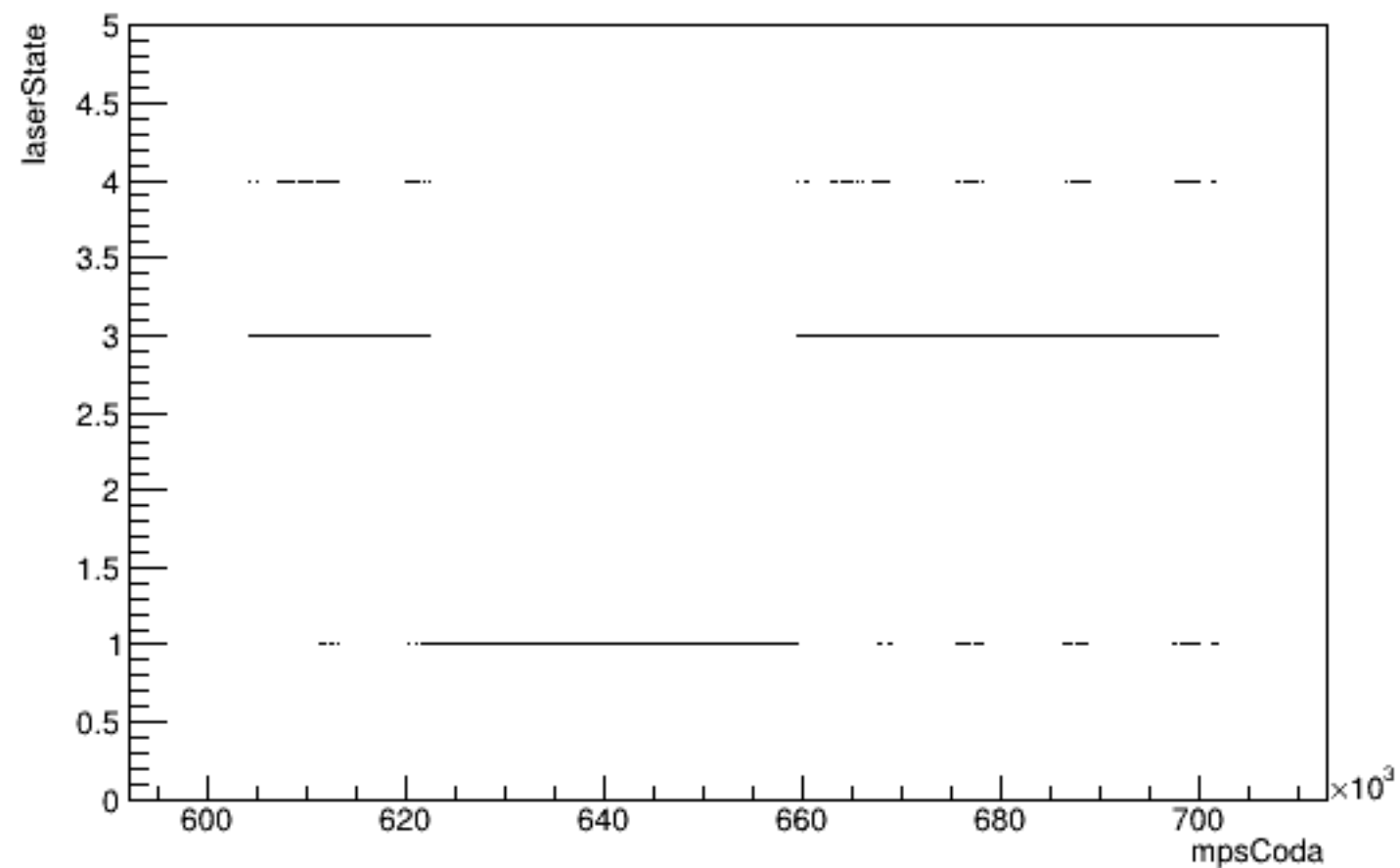
Run 4460 quartetwise, Asyms



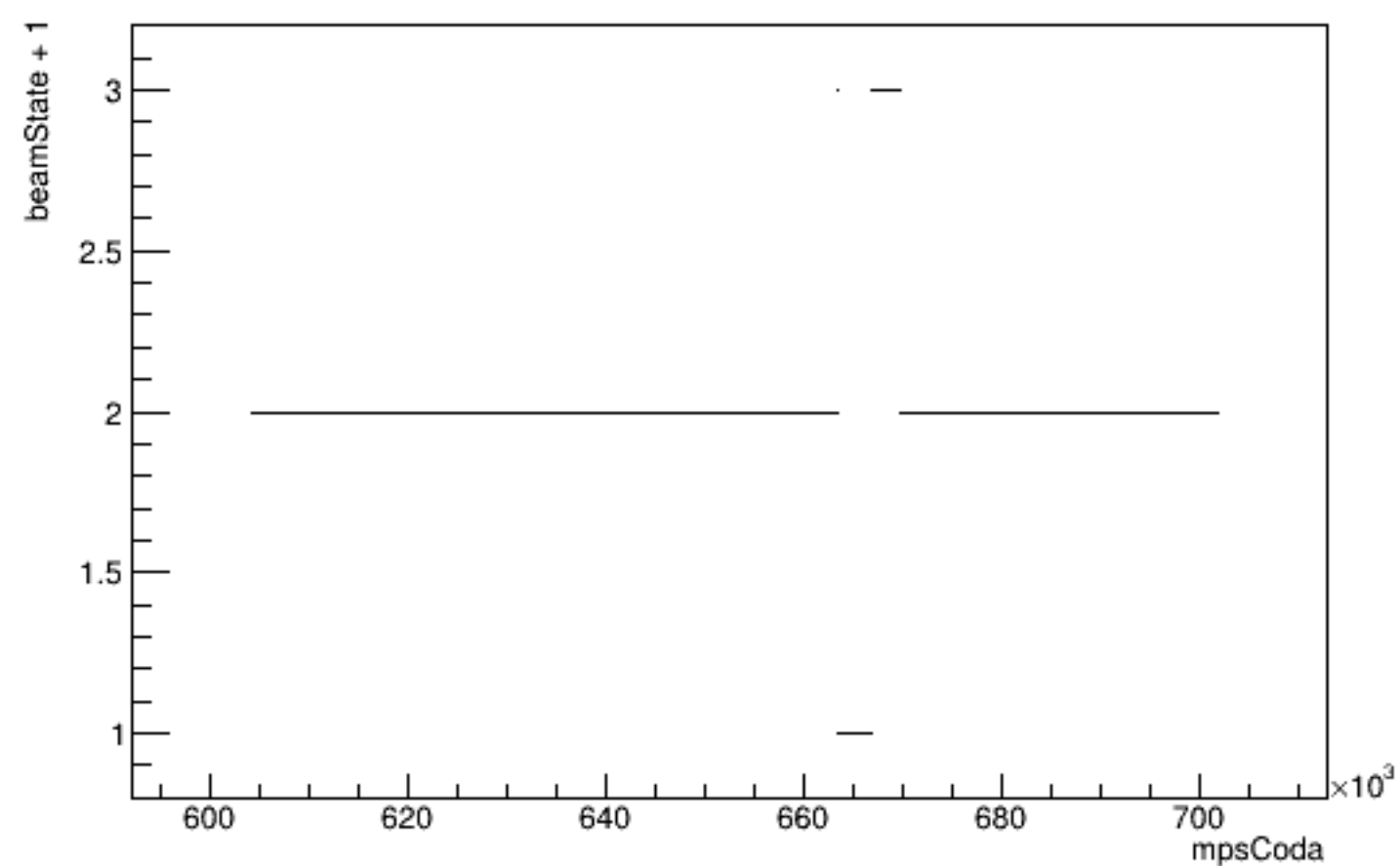
Acc0/NAcc0:mpsCoda (mpsCoda>=604124 && mpsCoda<=701723 && beamState==1)



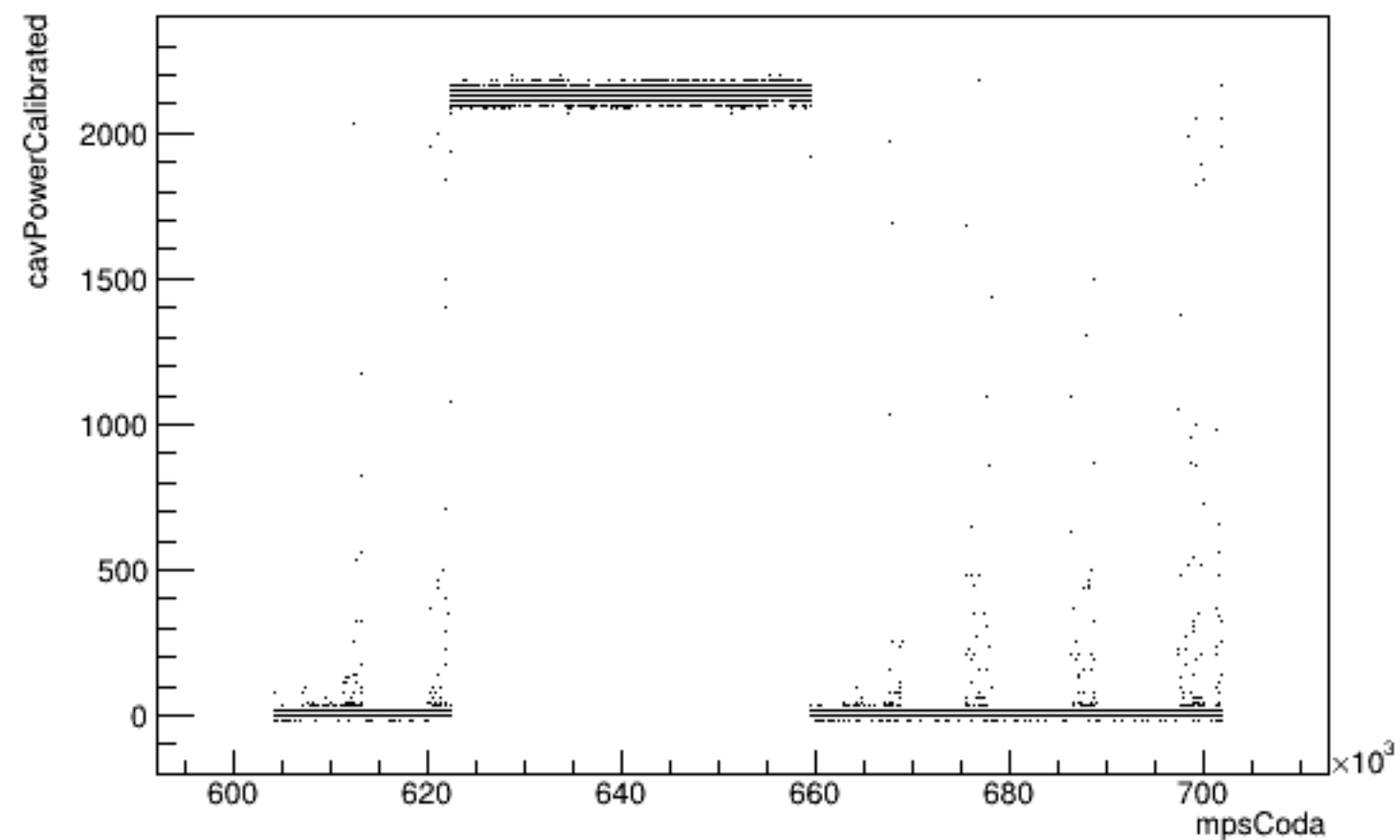
laserState:mpsCoda {mpsCoda&gt;=604124 &amp;&amp; mpsCoda&lt;=701723}



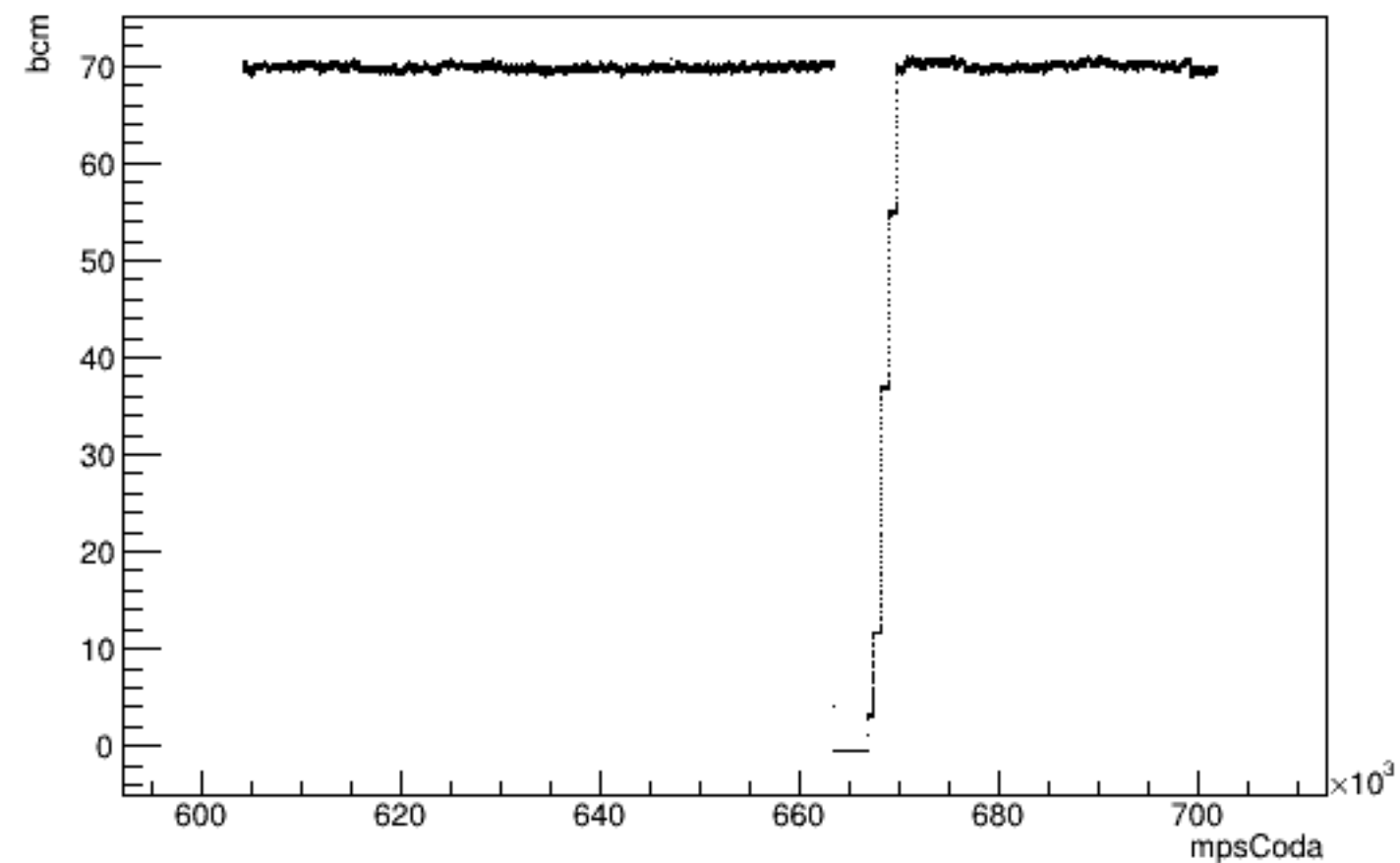
beamState + 1:mpsCoda {mpsCoda&gt;=604124 &amp;&amp; mpsCoda&lt;=701723}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=604124 &amp;&amp; mpsCoda&lt;=701723}



bcm:mpsCoda {mpsCoda&gt;=604124 &amp;&amp; mpsCoda&lt;=701723}



## Cycle 11, Diffs

Entries: 4338

Mean: 0.0356 +/- 0.0051

Std Dev: 0.3390 +/- 0.0036

Entries: 4638

Mean: -0.0561 +/- 0.0057

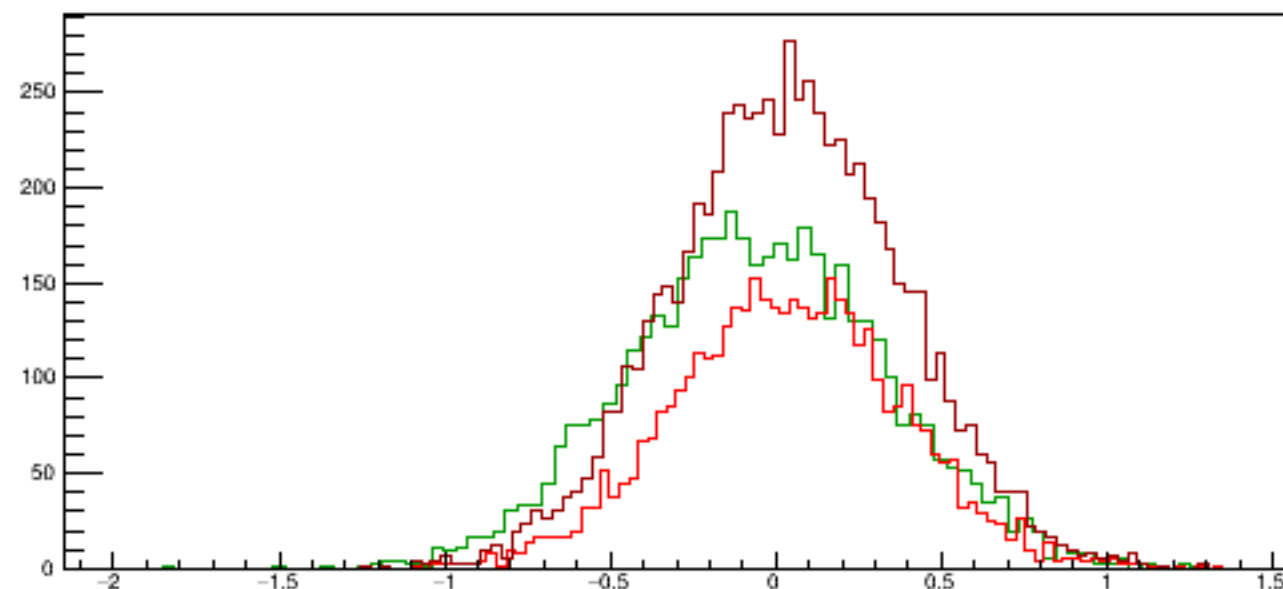
Std Dev: 0.3857 +/- 0.0040

Entries: 7173

Mean: 0.0343 +/- 0.0041

Std Dev: 0.3471 +/- 0.0029

Run 4460 quartetwise, Diffs



## Cycle 11, Sums

Entries: 4338

Mean: 16.8205 +/- 0.0074

Std Dev: 0.4843 +/- 0.0052

Entries: 4638

Mean: 22.7763 +/- 0.0081

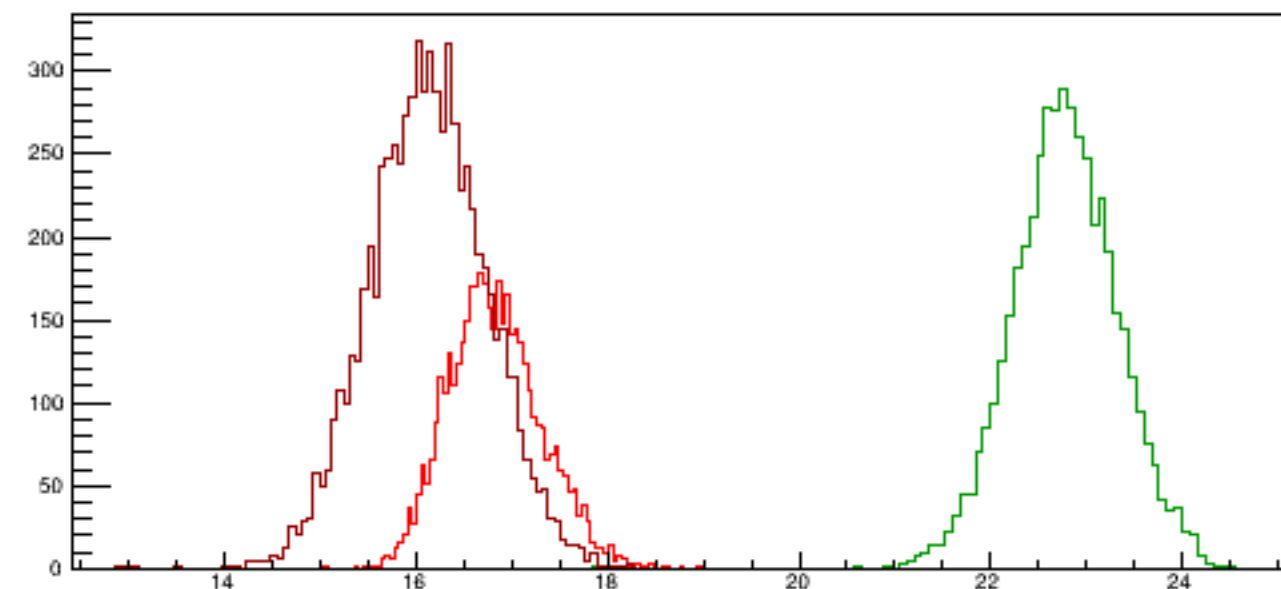
Std Dev: 0.5492 +/- 0.0057

Entries: 7173

Mean: 16.1260 +/- 0.0072

Std Dev: 0.6071 +/- 0.0051

Run 4460 quartetwise, Sums



## Cycle 11, Asyms

Entries: 4338

Mean: 0.0056 +/- 0.0008

Std Dev: 0.0538 +/- 0.0006

Entries: 4638

Mean: -0.0092 +/- 0.0009

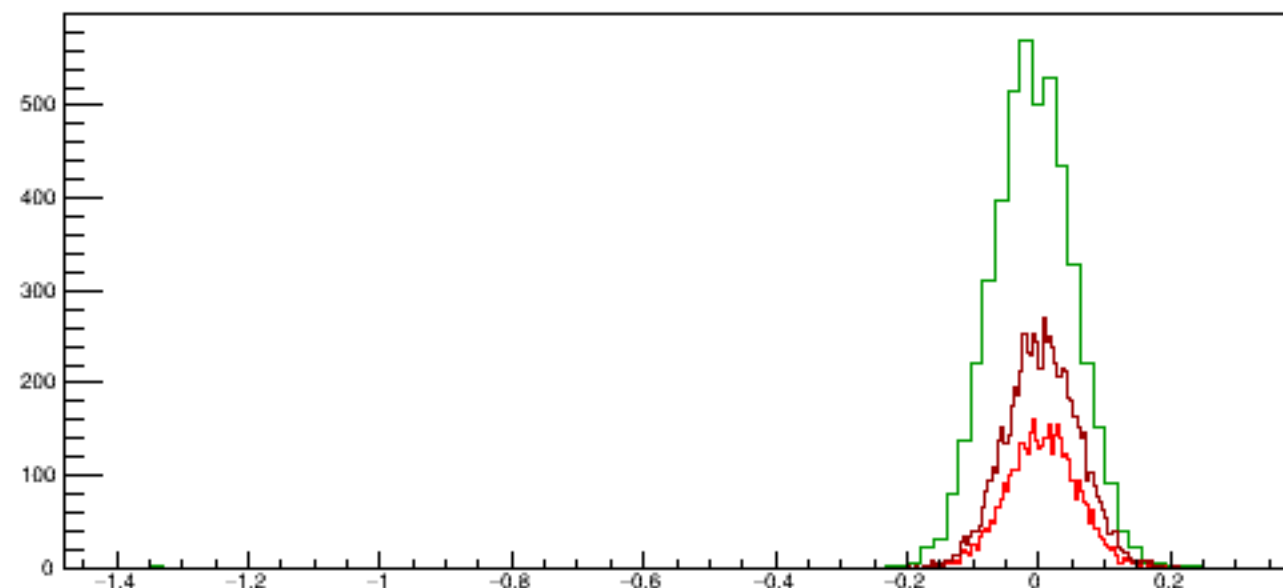
Std Dev: 0.0643 +/- 0.0007

Entries: 7173

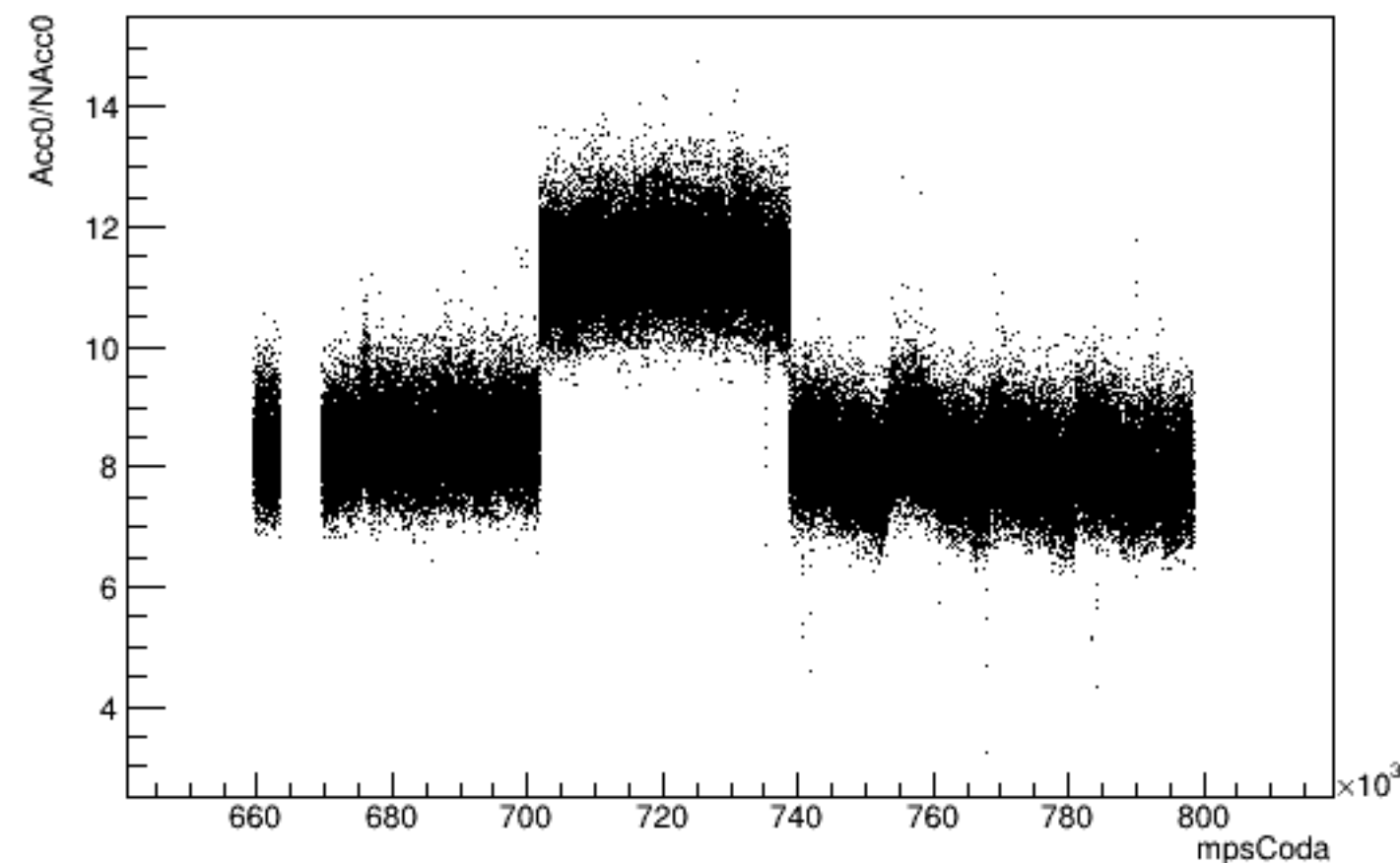
Mean: 0.0054 +/- 0.0007

Std Dev: 0.0551 +/- 0.0005

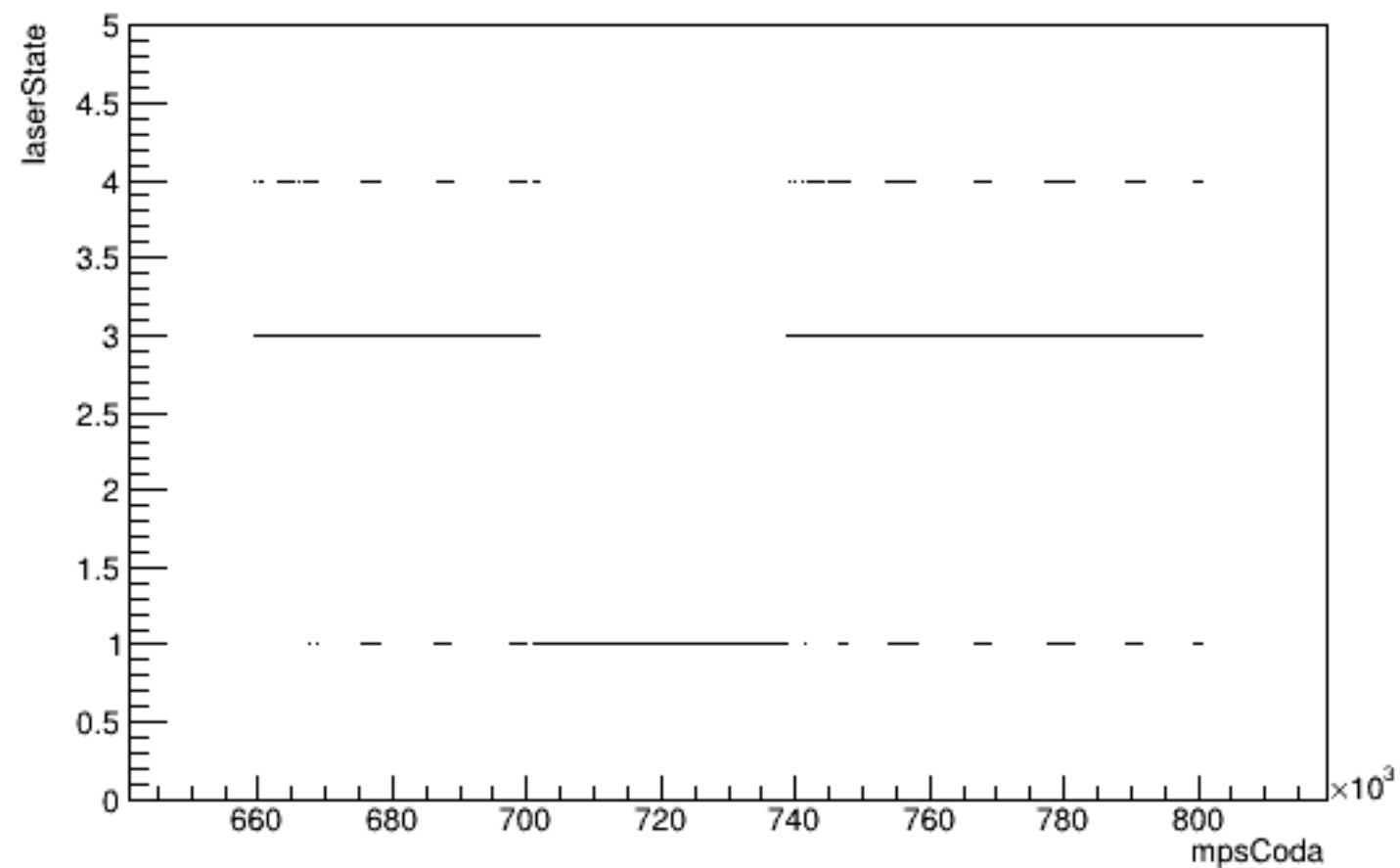
Run 4460 quartetwise, Asyms



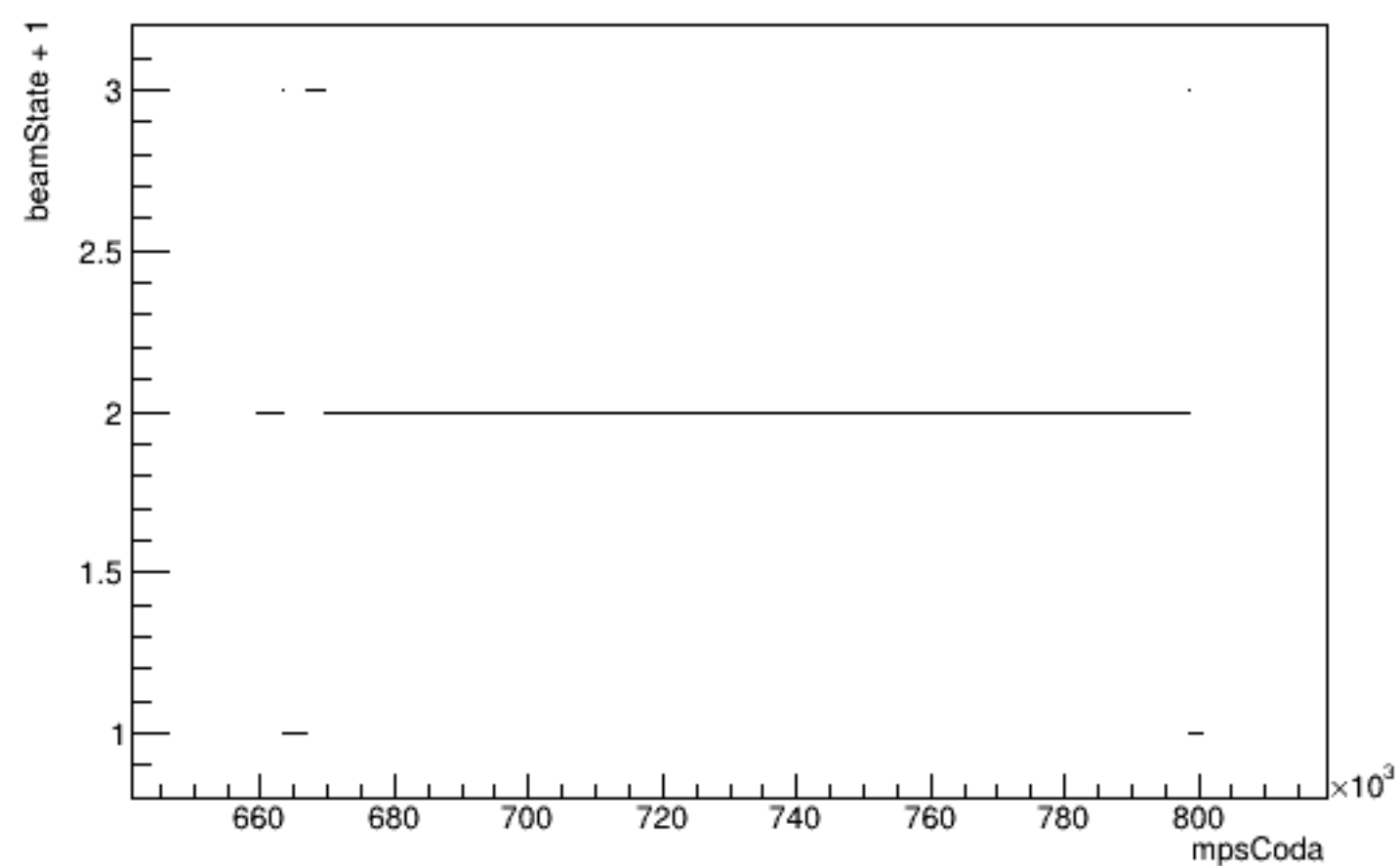
Acc0/NAcc0:mpsCoda (mpsCoda>=659572 && mpsCoda<=800427 && beamState==1)



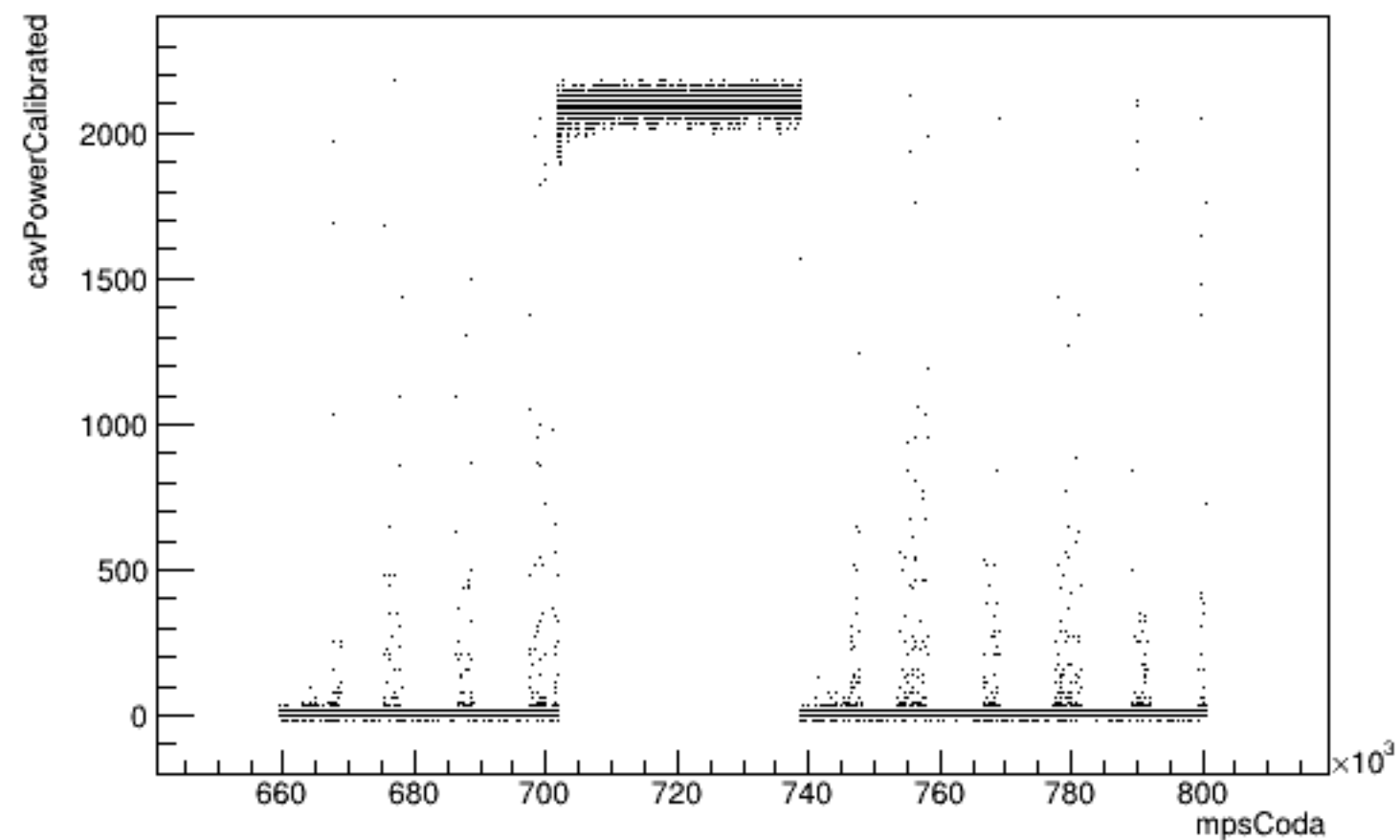
laserState:mpsCoda {mpsCoda&gt;=659572 &amp;&amp; mpsCoda&lt;=800427}



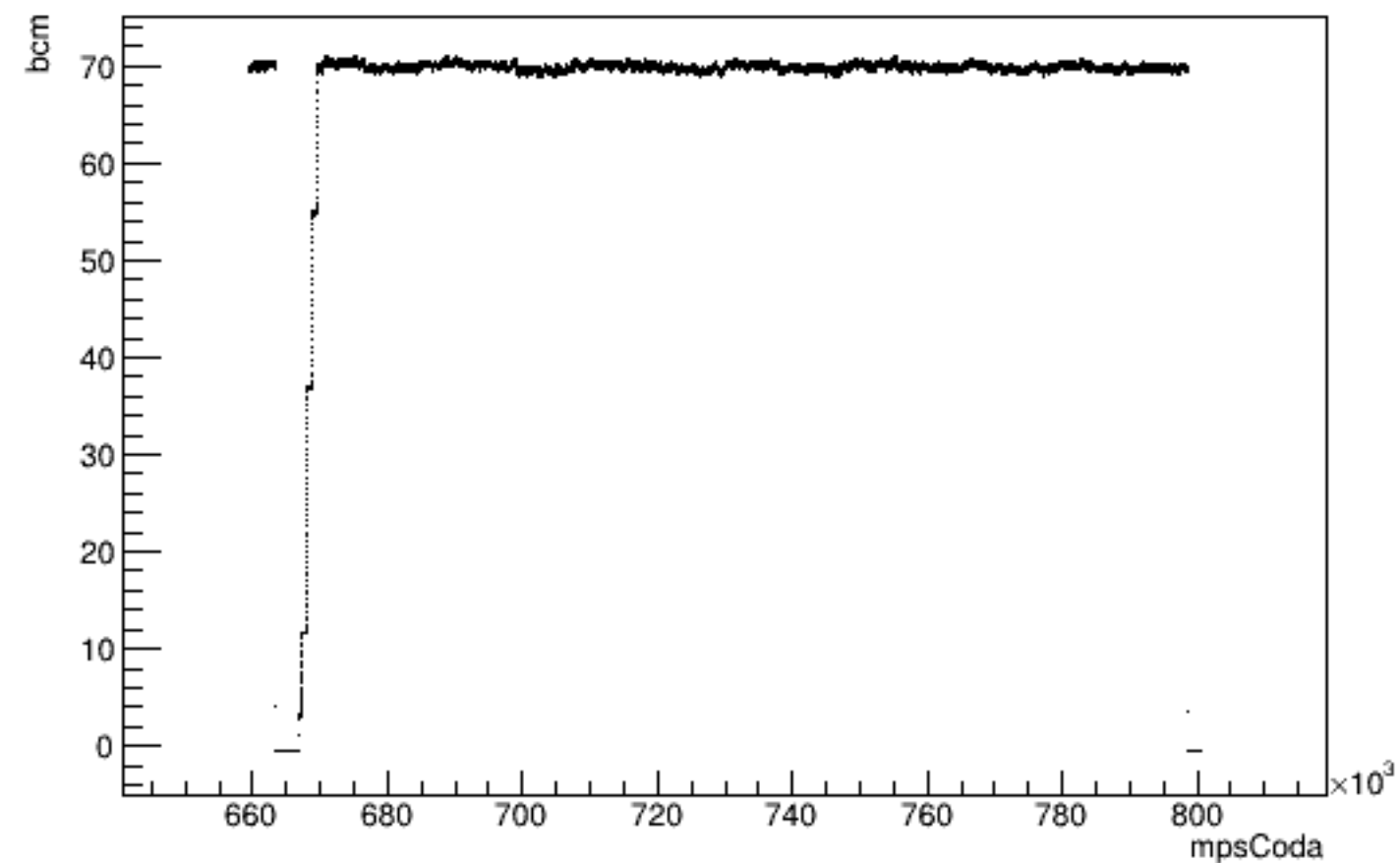
beamState + 1:mpsCoda {mpsCoda&gt;=659572 &amp;&amp; mpsCoda&lt;=800427}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=659572 &amp;&amp; mpsCoda&lt;=800427}



bcm:mpsCoda {mpsCoda&gt;=659572 &amp;&amp; mpsCoda&lt;=800427}



## Cycle 12, Diffs

Entries: 7173

Mean: 0.0343 +/- 0.0041

Std Dev: 0.3471 +/- 0.0029

Entries: 2981

Mean: -0.0464 +/- 0.0071

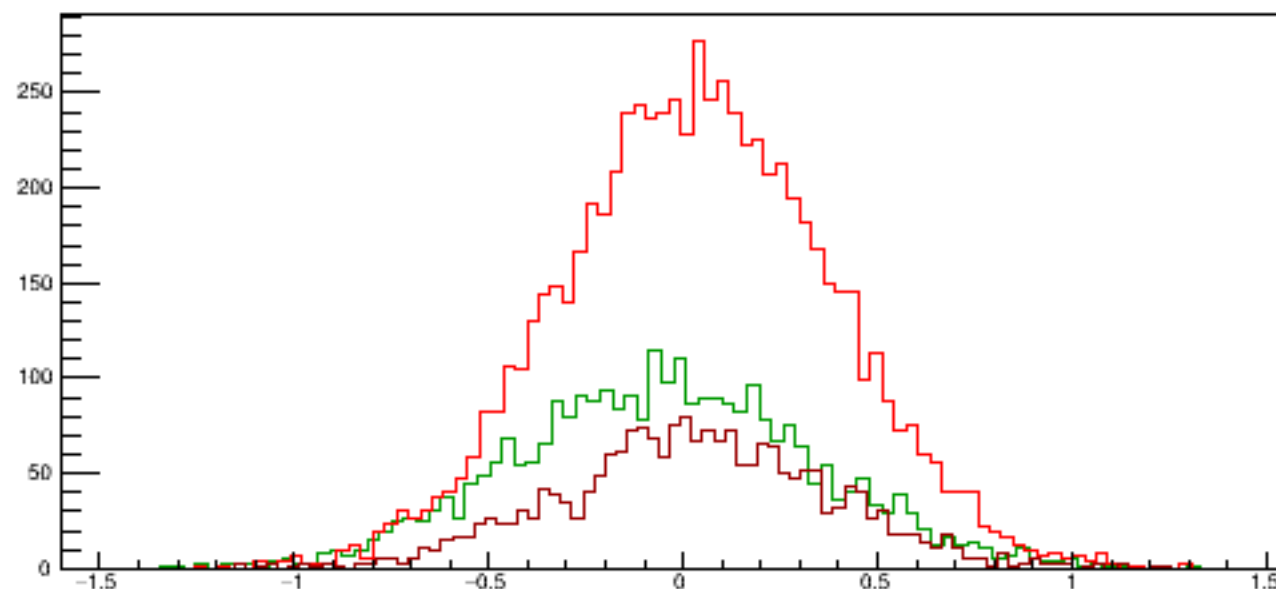
Std Dev: 0.3868 +/- 0.0050

Entries: 2111

Mean: 0.0323 +/- 0.0075

Std Dev: 0.3453 +/- 0.0053

Run 4460 quartetwise, Diffs



## Cycle 12, Sums

Entries: 7173

Mean: 16.1260 +/- 0.0072

Std Dev: 0.6071 +/- 0.0051

Entries: 2981

Mean: 22.0047 +/- 0.0150

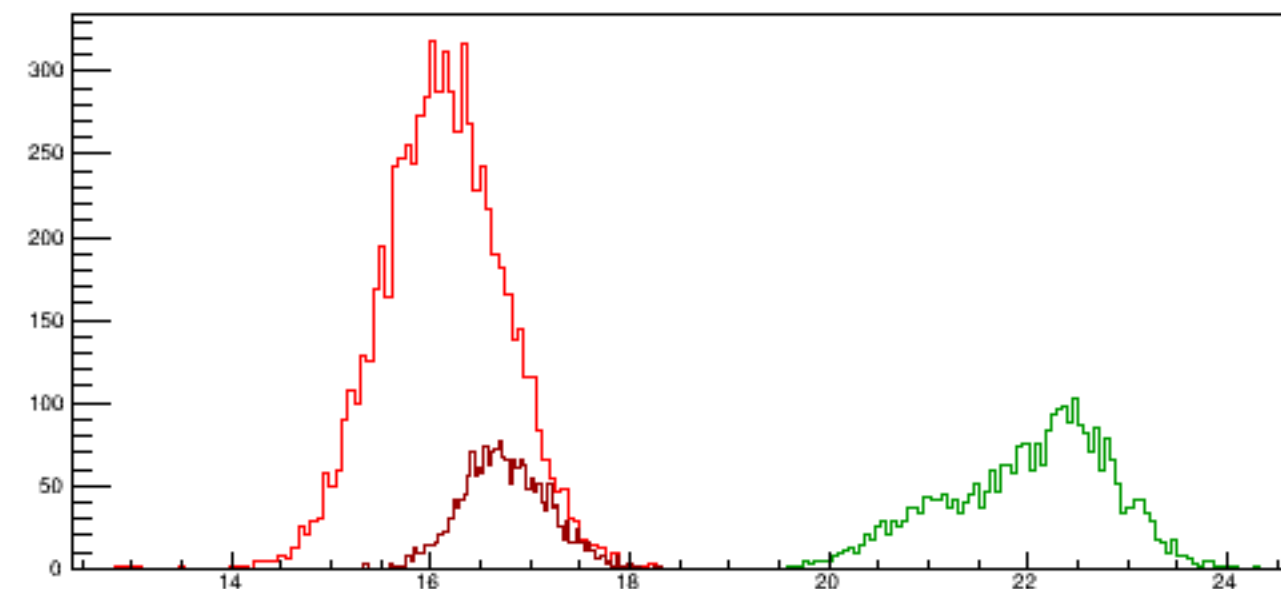
Std Dev: 0.8170 +/- 0.0106

Entries: 2111

Mean: 16.7522 +/- 0.0095

Std Dev: 0.4360 +/- 0.0067

Run 4460 quartetwise, Sums



## Cycle 12, Asyms

Entries: 7173

Mean: 0.0062 +/- 0.0007

Std Dev: 0.0624 +/- 0.0005

Entries: 2981

Mean: -0.0088 +/- 0.0013

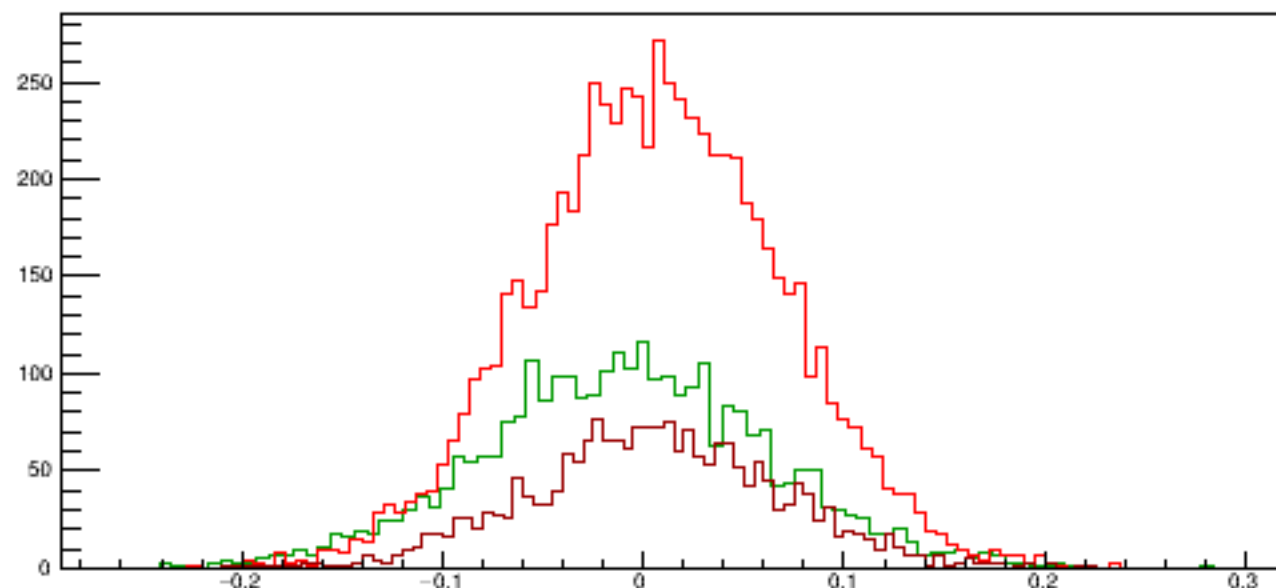
Std Dev: 0.0711 +/- 0.0009

Entries: 2111

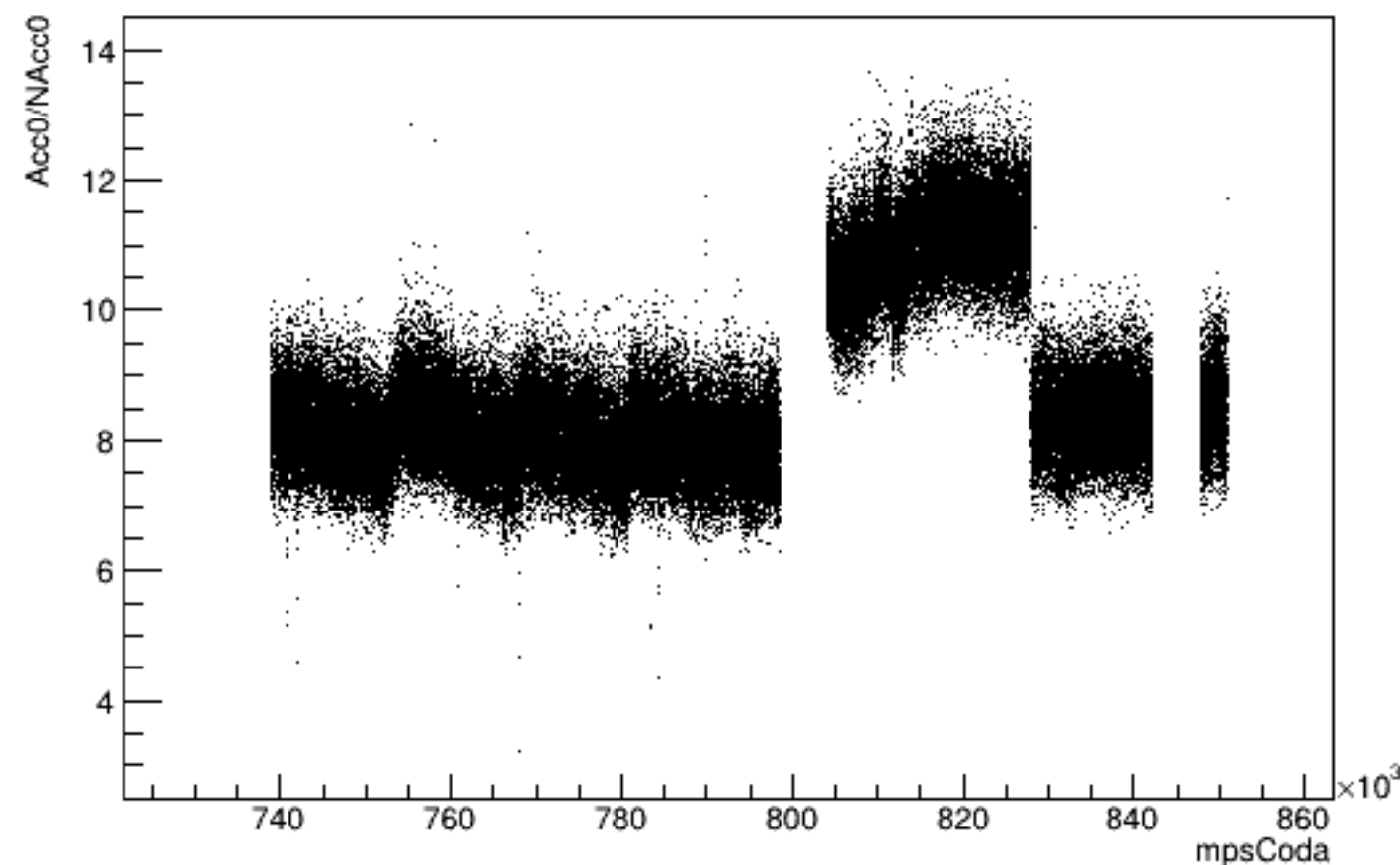
Mean: 0.0058 +/- 0.0014

Std Dev: 0.0620 +/- 0.0010

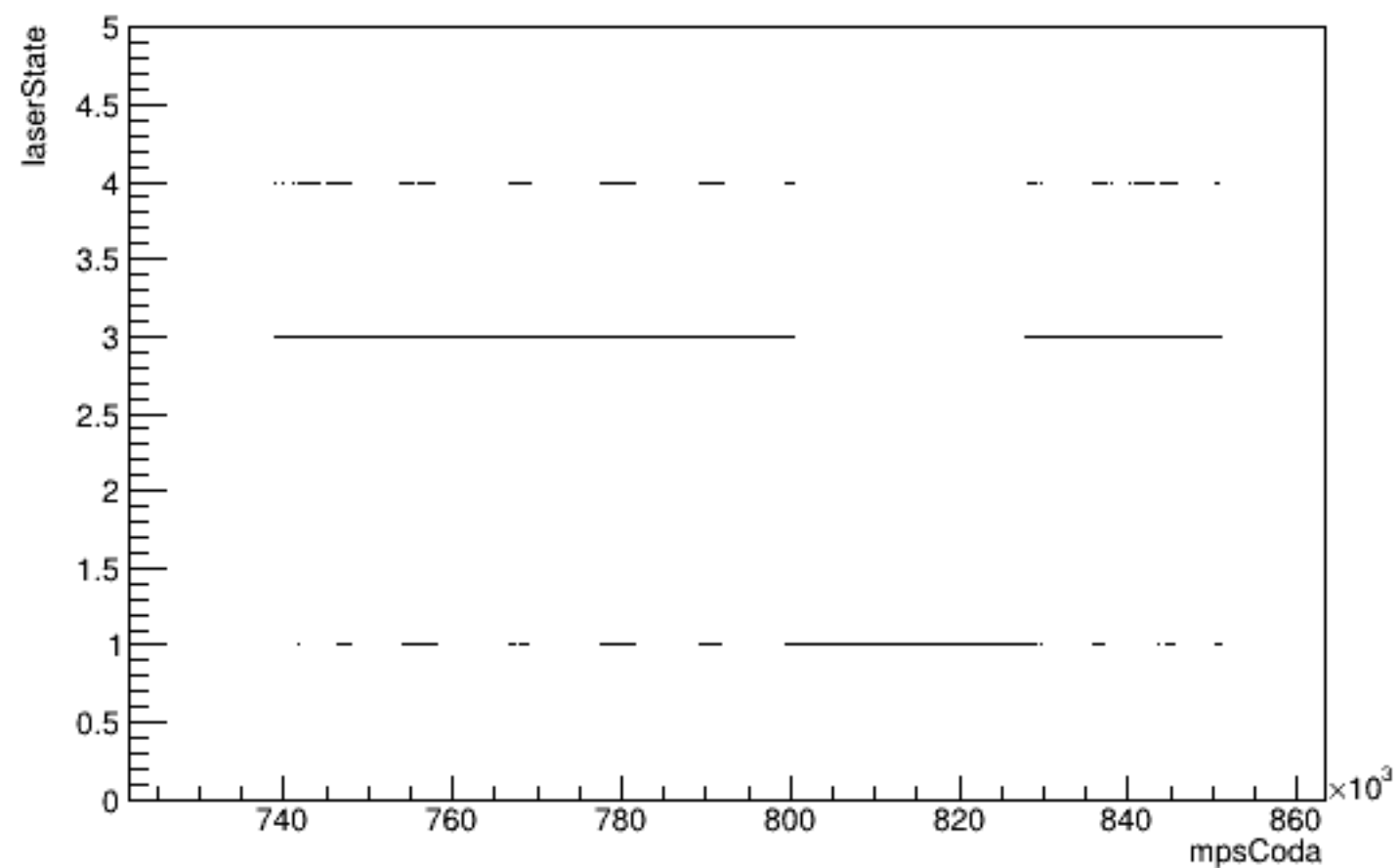
Run 4460 quartetwise, Asyms



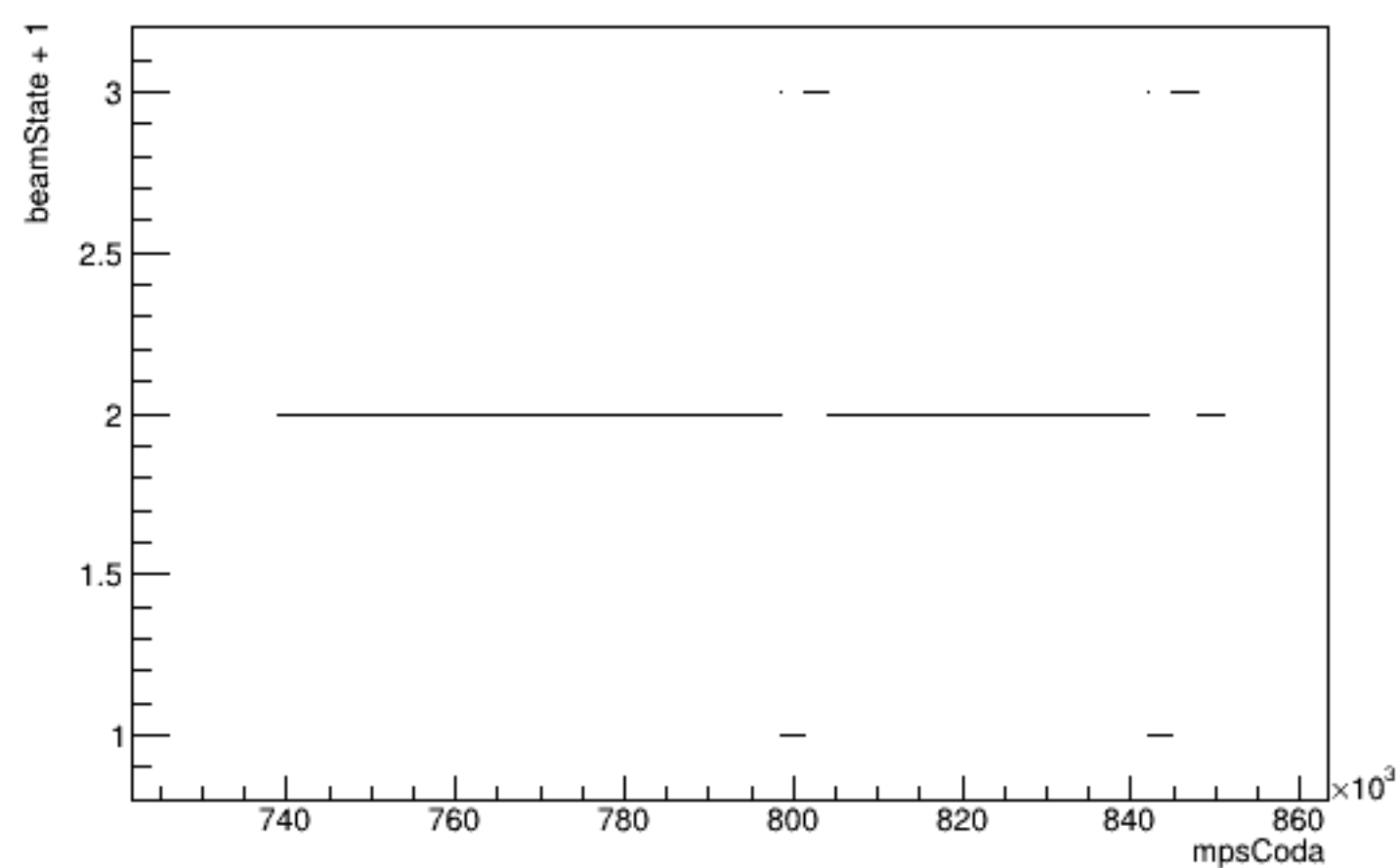
Acc0/NAcc0:mpsCoda (mpsCoda>=738836 && mpsCoda<=850891 && beamState==1)



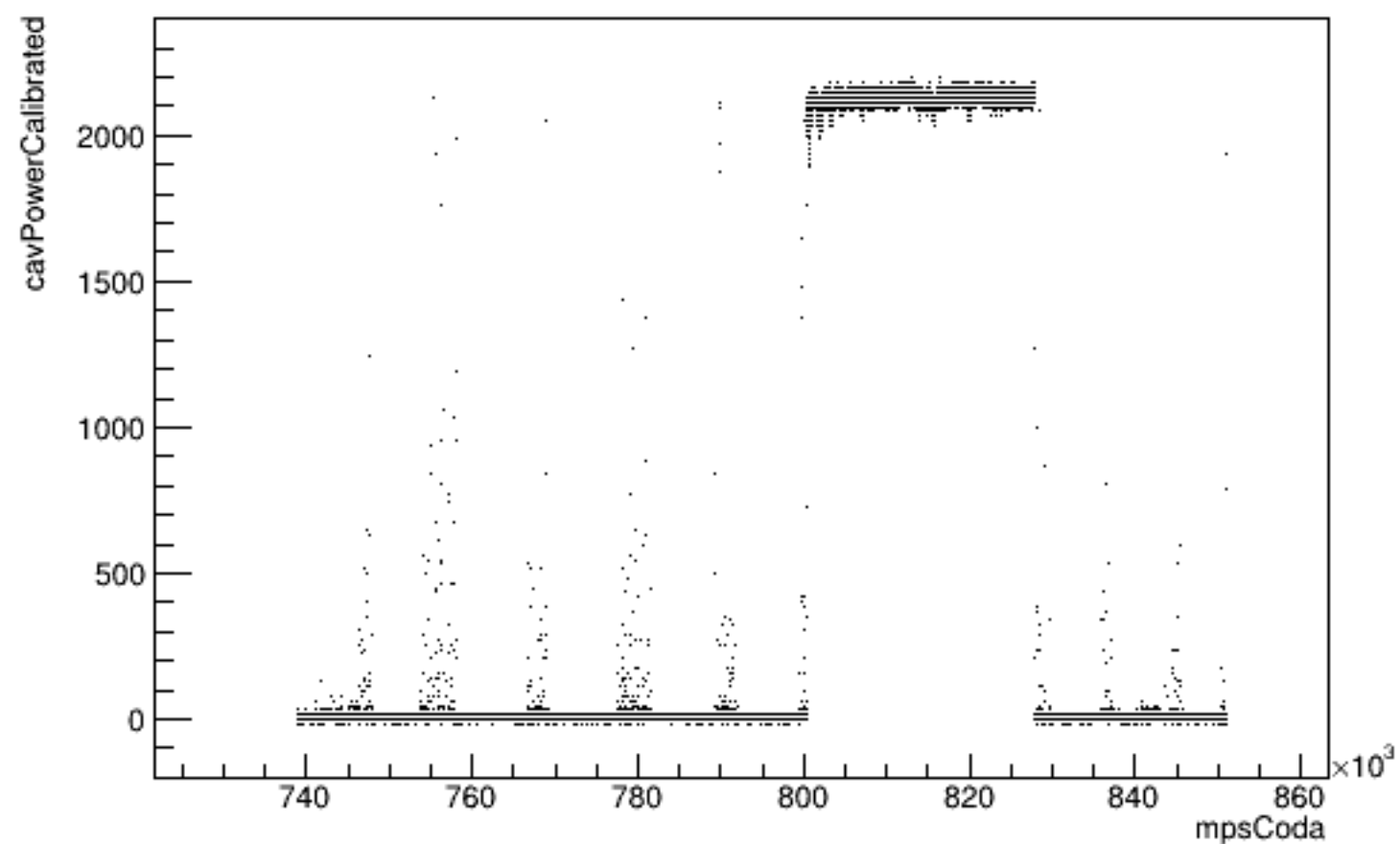
laserState:mpsCoda {mpsCoda&gt;=738836 &amp;&amp; mpsCoda&lt;=850891}



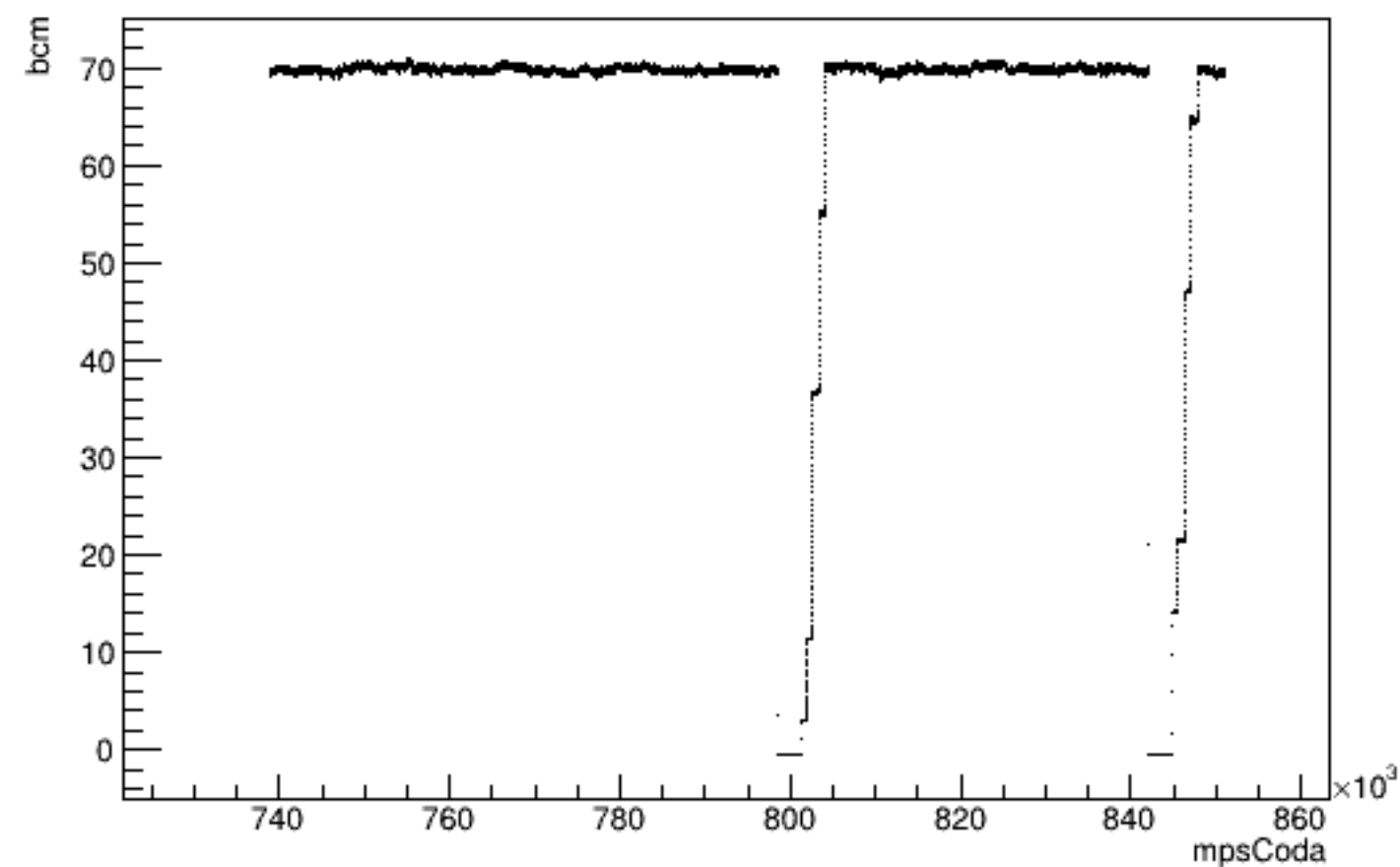
beamState + 1:mpsCoda {mpsCoda&gt;=738836 &amp;&amp; mpsCoda&lt;=850891}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=738836 &amp;&amp; mpsCoda&lt;=850891}



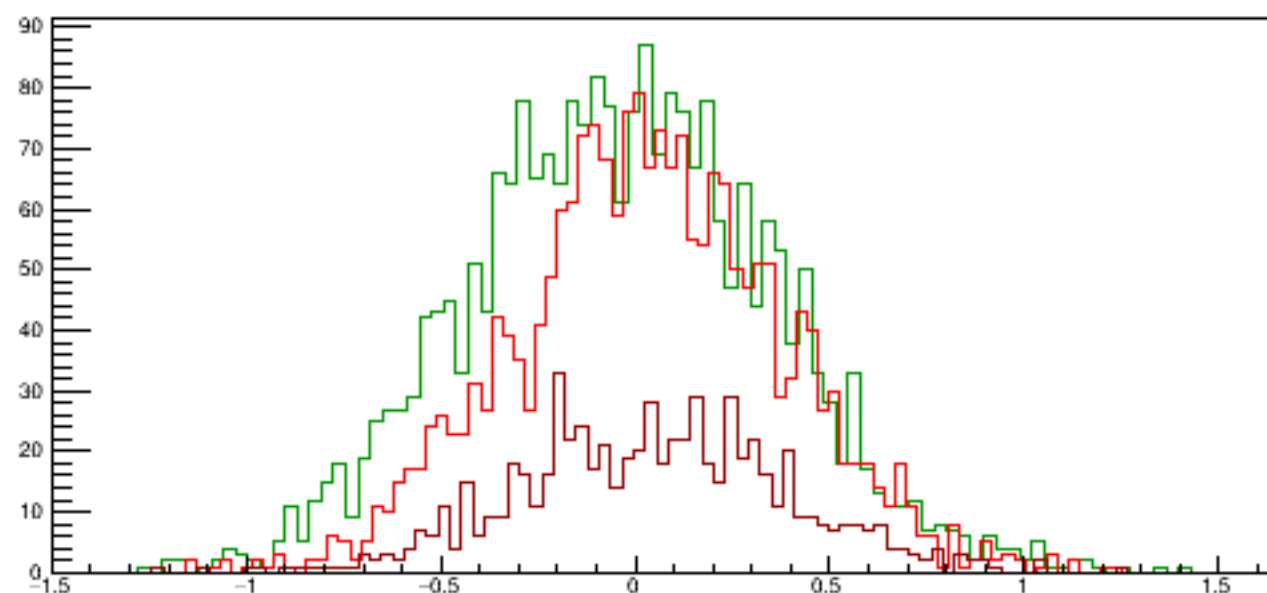
bcm:mpsCoda {mpsCoda&gt;=738836 &amp;&amp; mpsCoda&lt;=850891}



## Cycle 13, Diffs

| Entries: 2111              | Entries: 2436              | Entries: 684               |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0323 +/- 0.0075    | Mean: -0.0368 +/- 0.0079   | Mean: 0.0410 +/- 0.0135    |
| Std Dev: 0.3453 +/- 0.0053 | Std Dev: 0.3894 +/- 0.0056 | Std Dev: 0.3527 +/- 0.0095 |

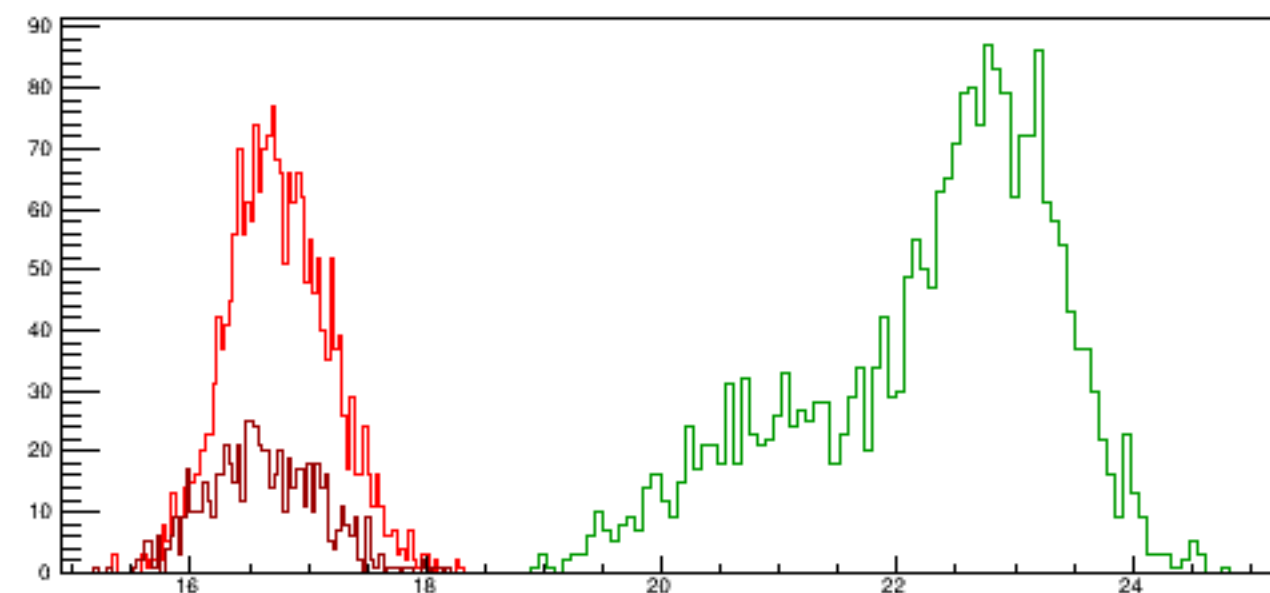
Run 4460 quartetwise, Diffs



## Cycle 13, Sums

| Entries: 2111              | Entries: 2436              | Entries: 684               |
|----------------------------|----------------------------|----------------------------|
| Mean: 16.7522 +/- 0.0095   | Mean: 22.2617 +/- 0.0223   | Mean: 16.6133 +/- 0.0184   |
| Std Dev: 0.4360 +/- 0.0067 | Std Dev: 1.1016 +/- 0.0158 | Std Dev: 0.4802 +/- 0.0130 |

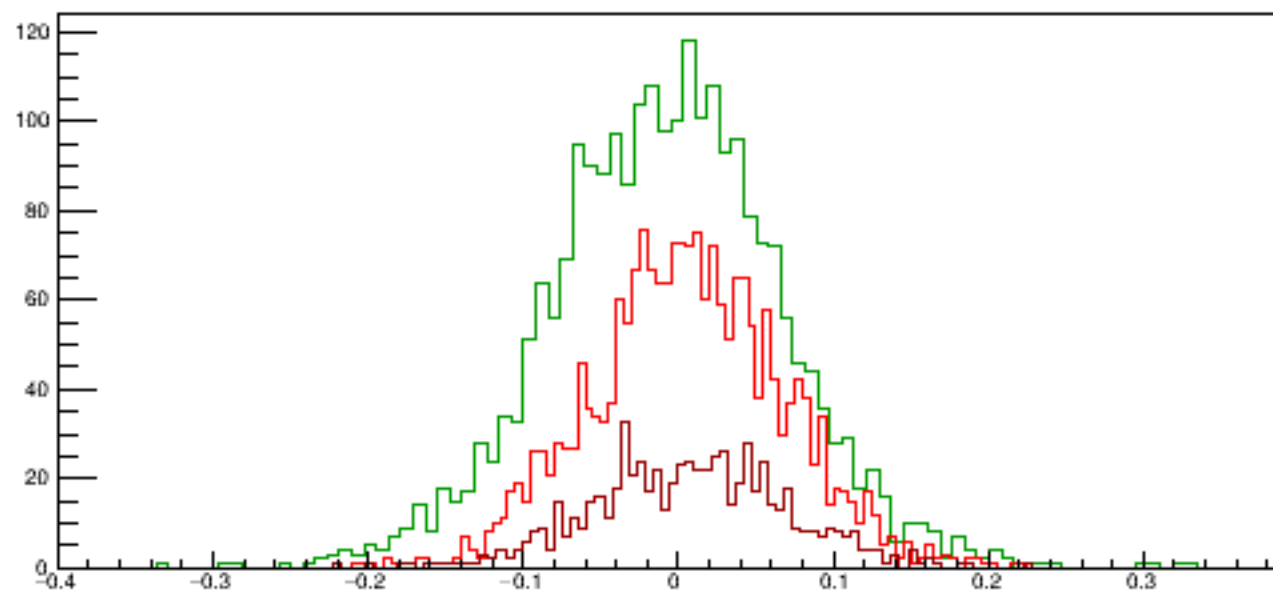
Run 4460 quartetwise, Sums



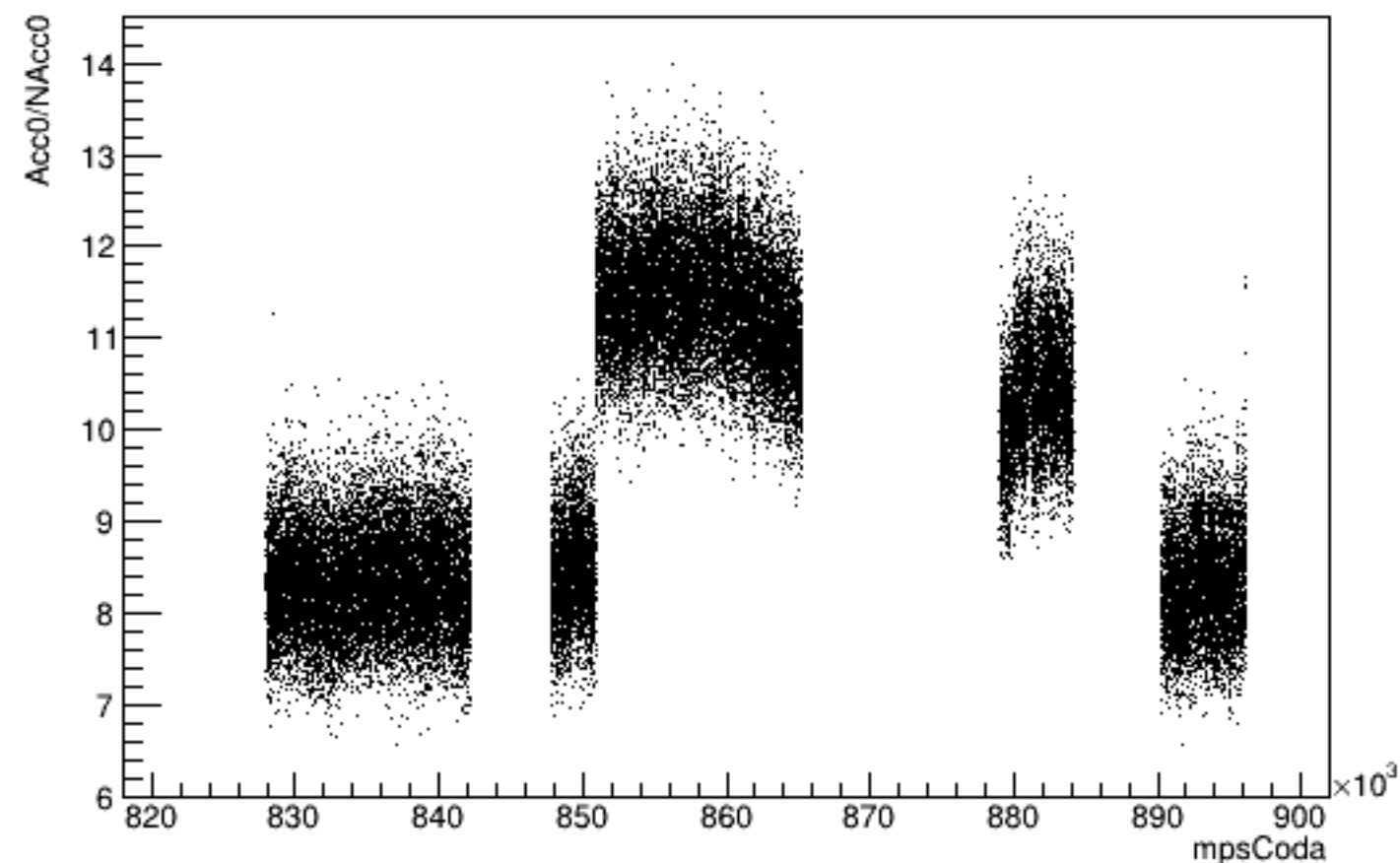
## Cycle 13, Asyms

| Entries: 2111              | Entries: 2436              | Entries: 684               |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0058 +/- 0.0013    | Mean: -0.0076 +/- 0.0015   | Mean: 0.0073 +/- 0.0024    |
| Std Dev: 0.0619 +/- 0.0010 | Std Dev: 0.0747 +/- 0.0011 | Std Dev: 0.0632 +/- 0.0017 |

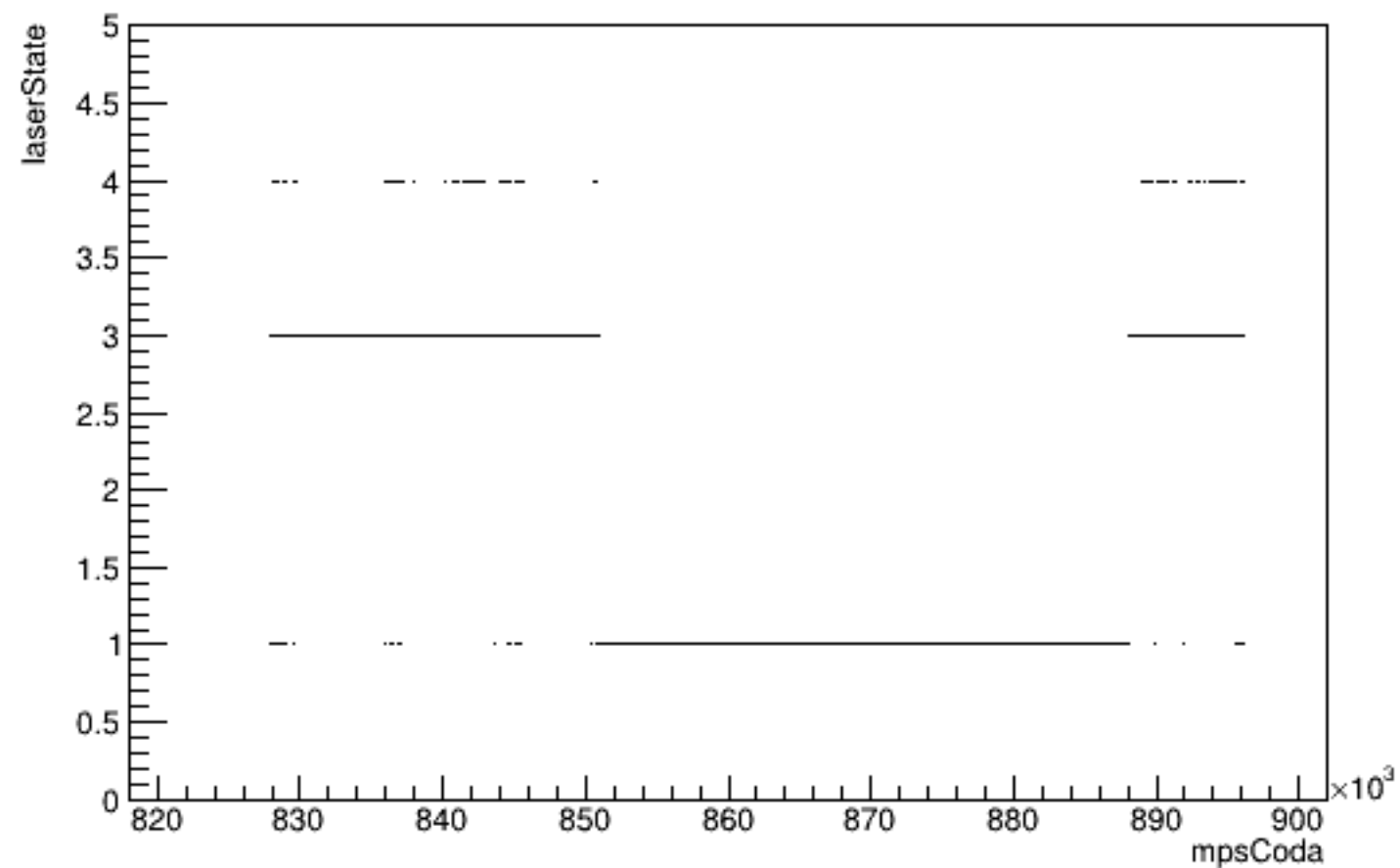
Run 4460 quartetwise, Asyms



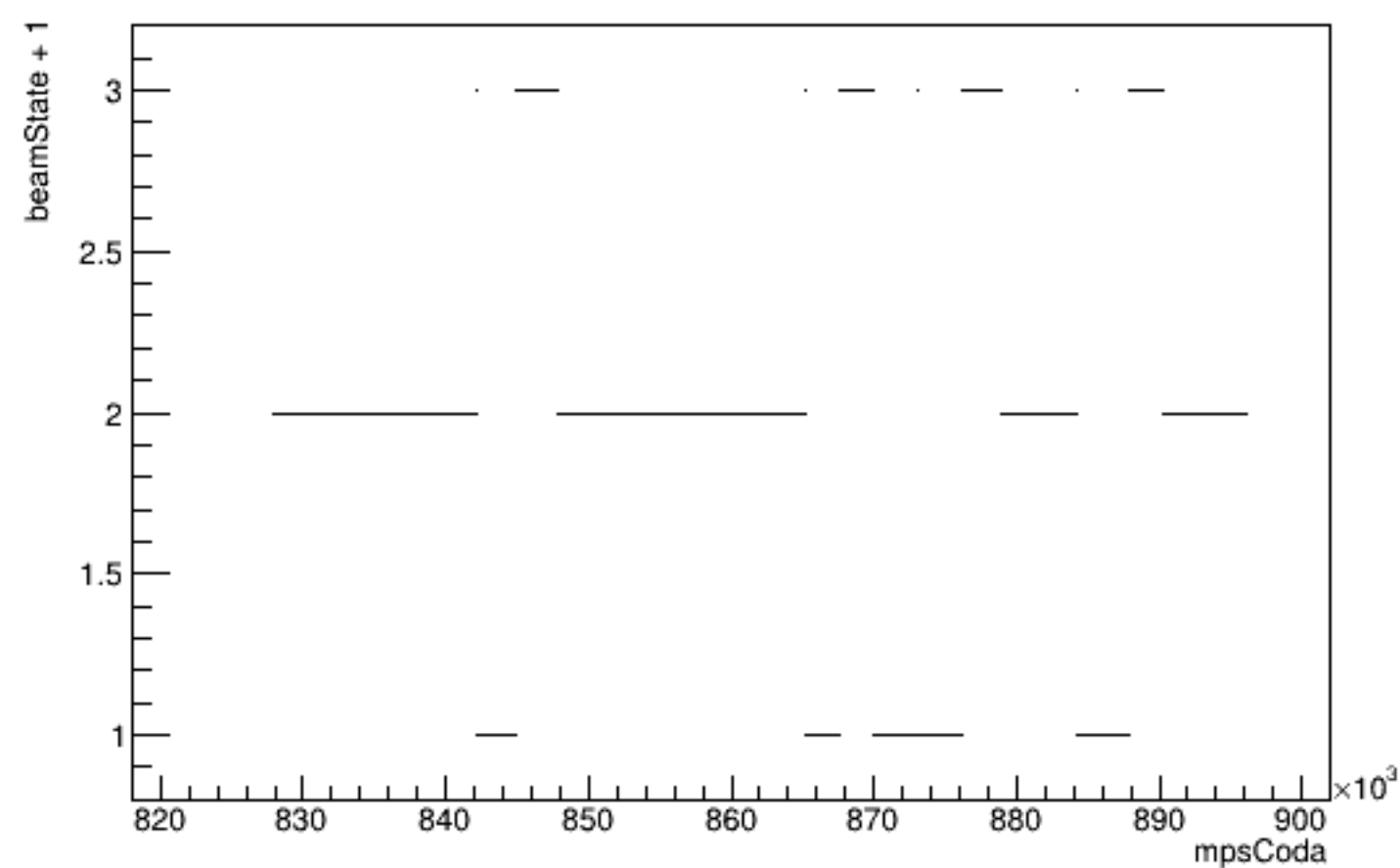
Acc0/NAcc0:mpsCoda (mpsCoda>=827972 && mpsCoda<=896139 && beamState==1)



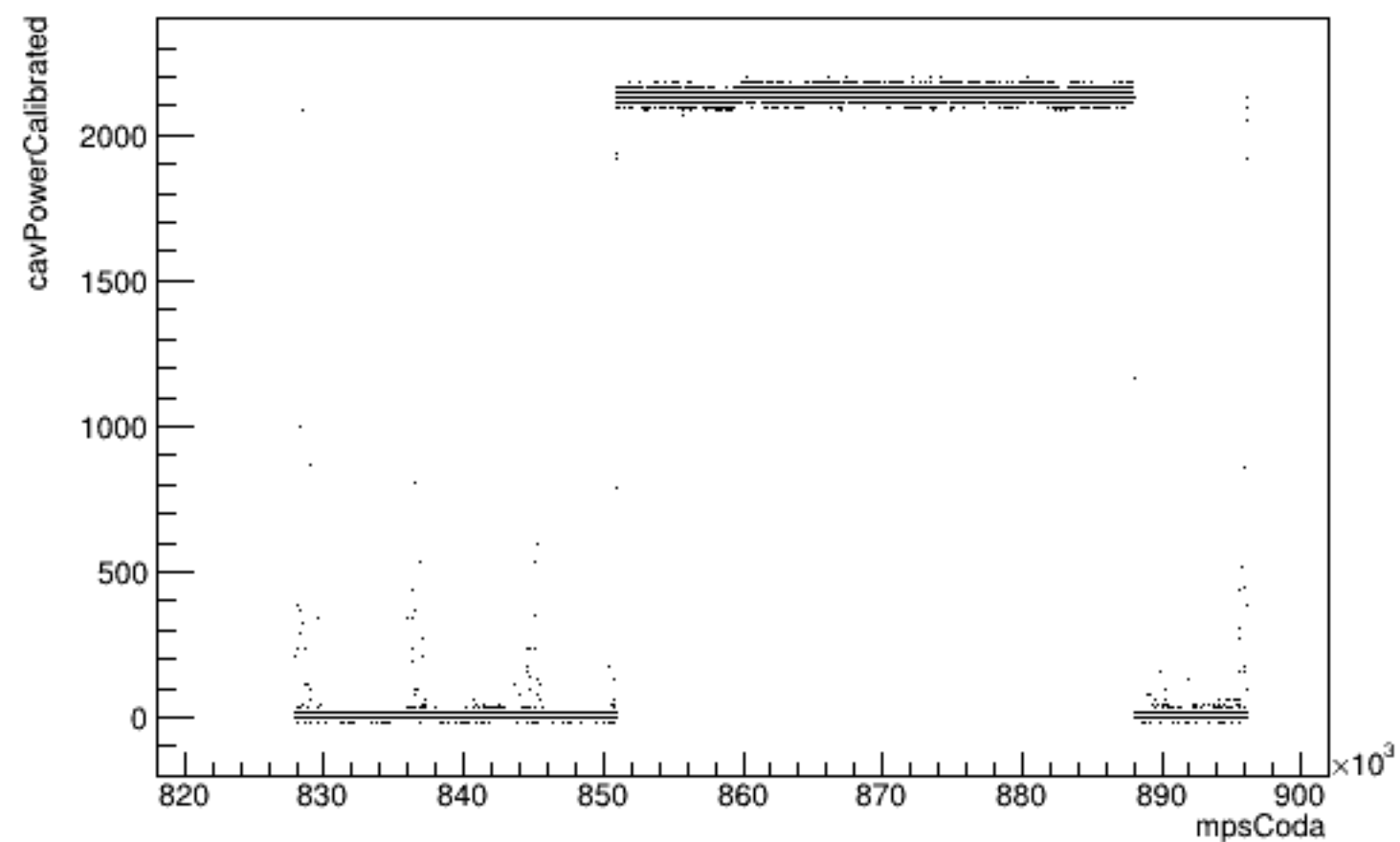
laserState:mpsCoda {mpsCoda&gt;=827972 &amp;&amp; mpsCoda&lt;=896139}



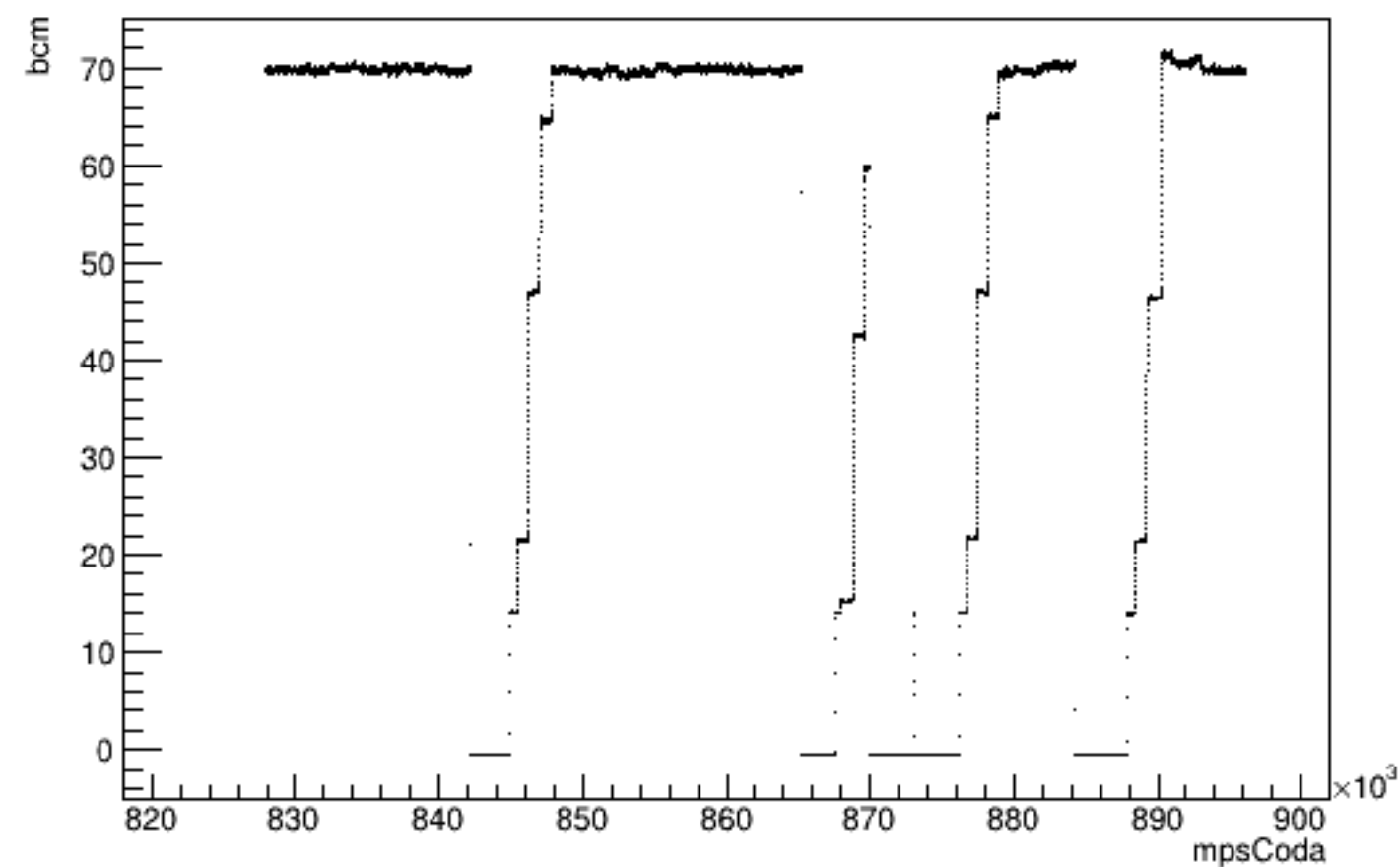
beamState + 1:mpsCoda {mpsCoda&gt;=827972 &amp;&amp; mpsCoda&lt;=896139}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=827972 &amp;&amp; mpsCoda&lt;=896139}



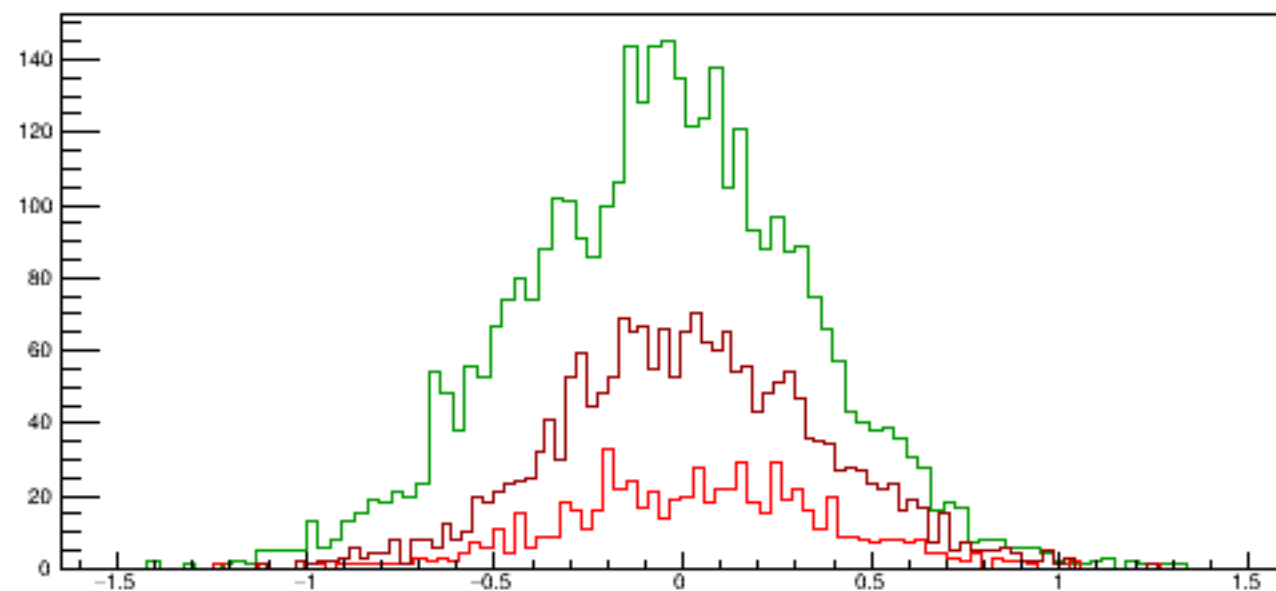
bcm:mpsCoda {mpsCoda&gt;=827972 &amp;&amp; mpsCoda&lt;=896139}



## Cycle 14, Diffs

| Entries: 684               | Entries: 3725              | Entries: 2011              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0410 +/- 0.0135    | Mean: -0.0526 +/- 0.0063   | Mean: 0.0197 +/- 0.0078    |
| Std Dev: 0.3527 +/- 0.0095 | Std Dev: 0.3831 +/- 0.0044 | Std Dev: 0.3501 +/- 0.0055 |

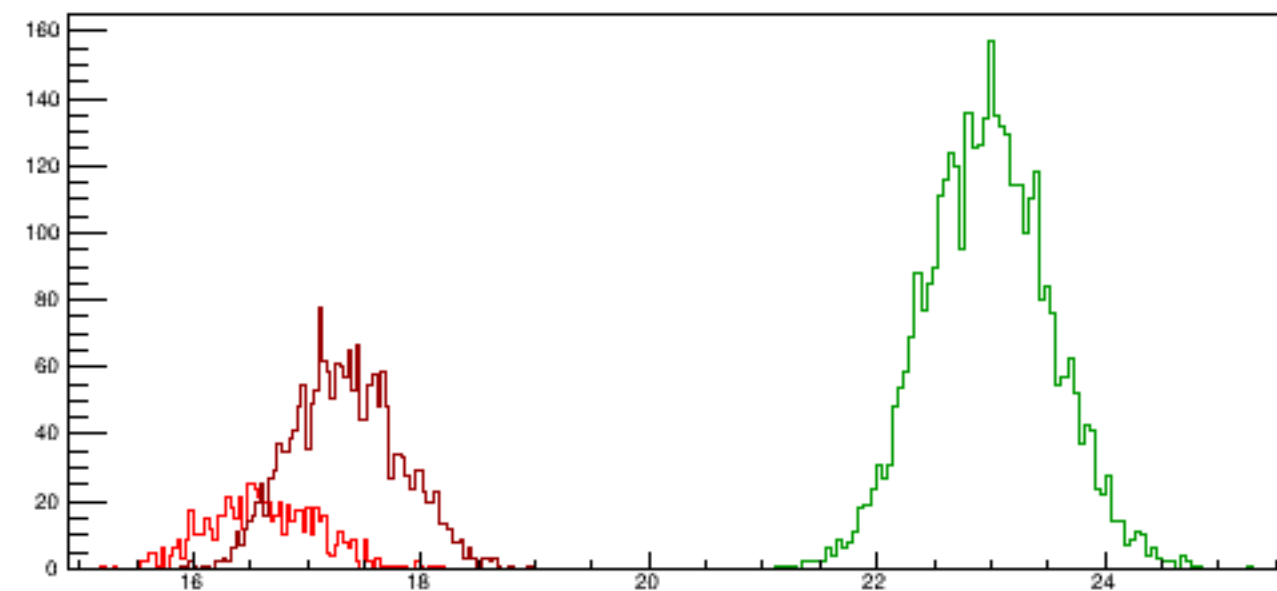
Run 4460 quartetwise, Diffs



## Cycle 14, Sums

| Entries: 684               | Entries: 3725              | Entries: 2011              |
|----------------------------|----------------------------|----------------------------|
| Mean: 16.6133 +/- 0.0184   | Mean: 22.9786 +/- 0.0090   | Mean: 17.3370 +/- 0.0106   |
| Std Dev: 0.4802 +/- 0.0130 | Std Dev: 0.5472 +/- 0.0063 | Std Dev: 0.4735 +/- 0.0075 |

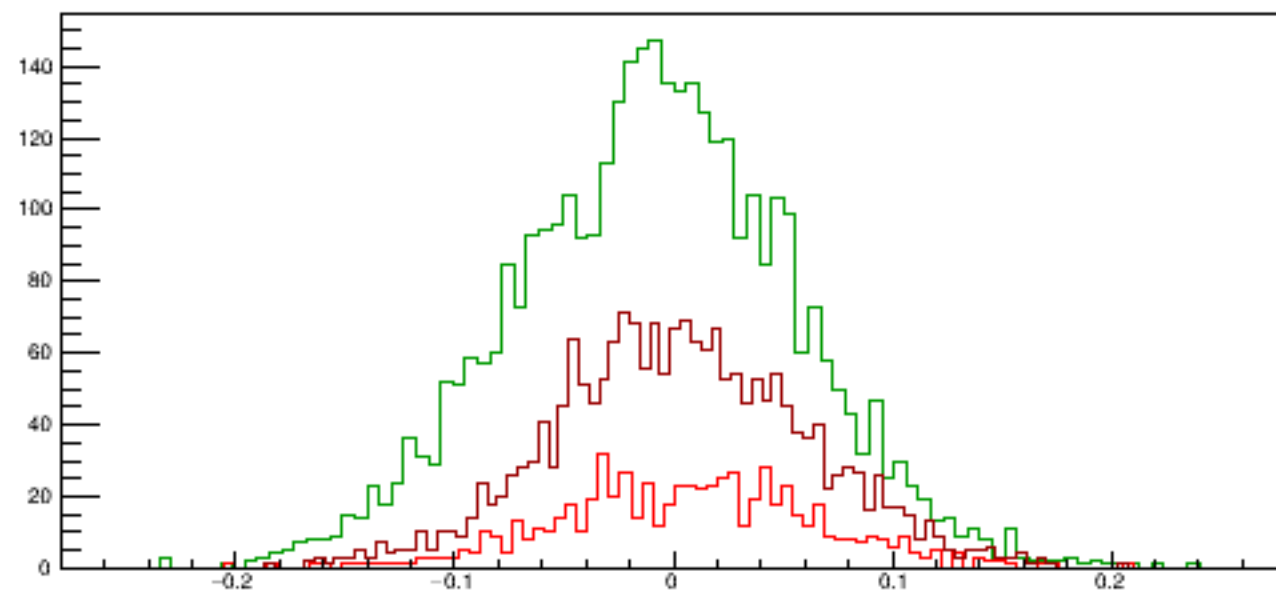
Run 4460 quartetwise, Sums



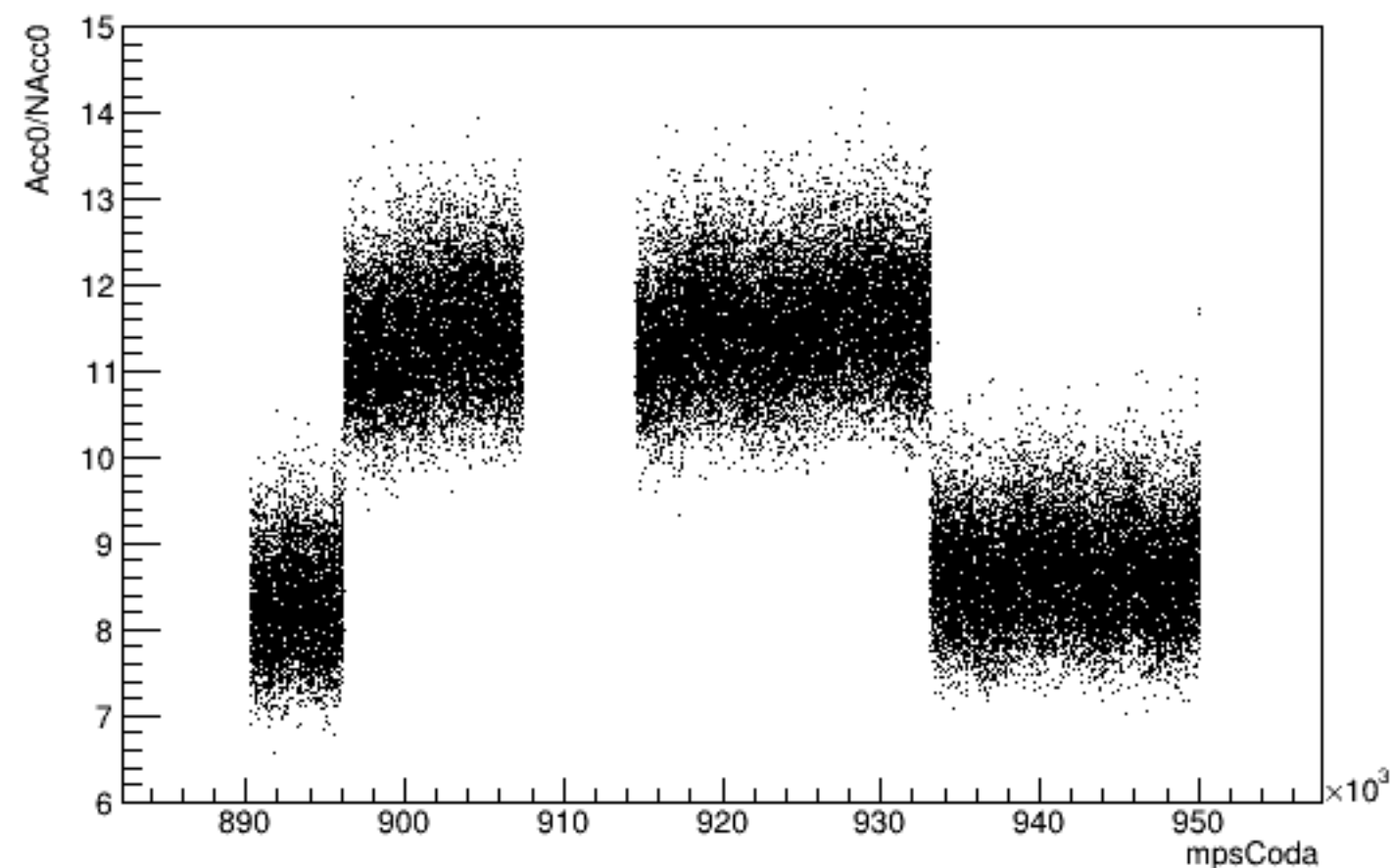
## Cycle 14, Asyms

| Entries: 684               | Entries: 3725              | Entries: 2011              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0068 +/- 0.0022    | Mean: -0.0088 +/- 0.0010   | Mean: 0.0033 +/- 0.0013    |
| Std Dev: 0.0587 +/- 0.0016 | Std Dev: 0.0641 +/- 0.0007 | Std Dev: 0.0583 +/- 0.0009 |

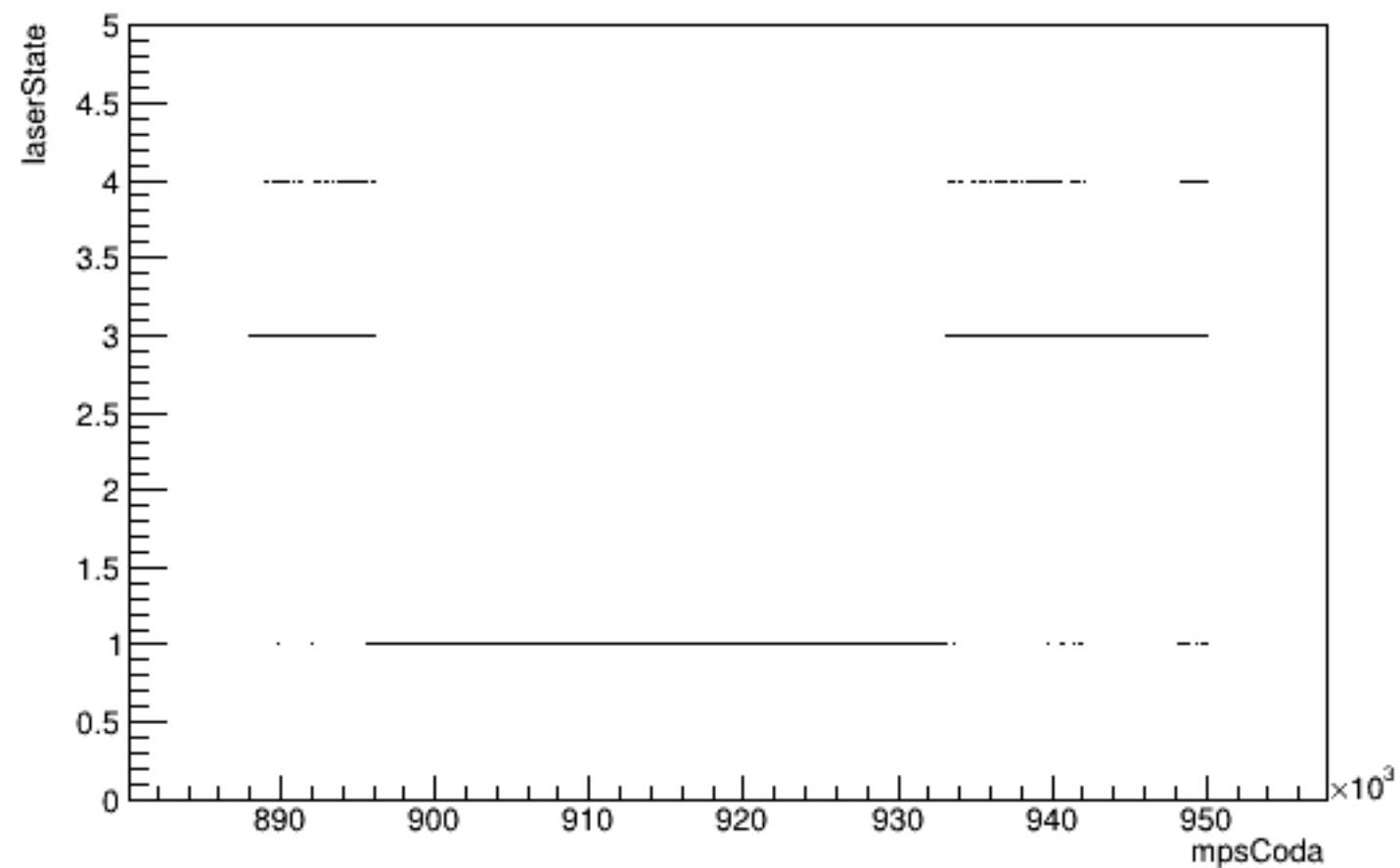
Run 4460 quartetwise, Asyms



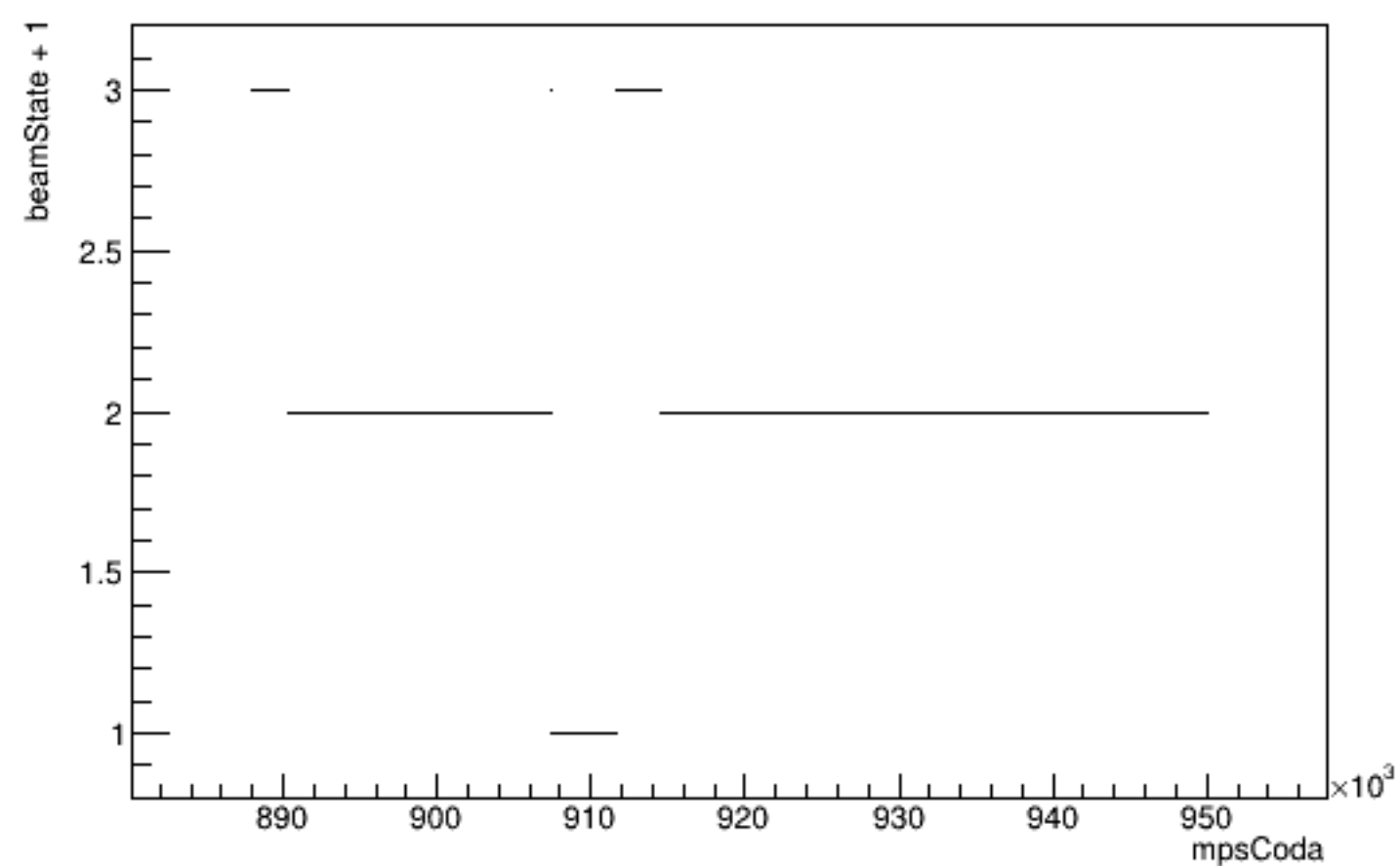
Acc0/NAcc0:mpsCoda (mpsCoda>=887988 && mpsCoda<=950099 && beamState==1)



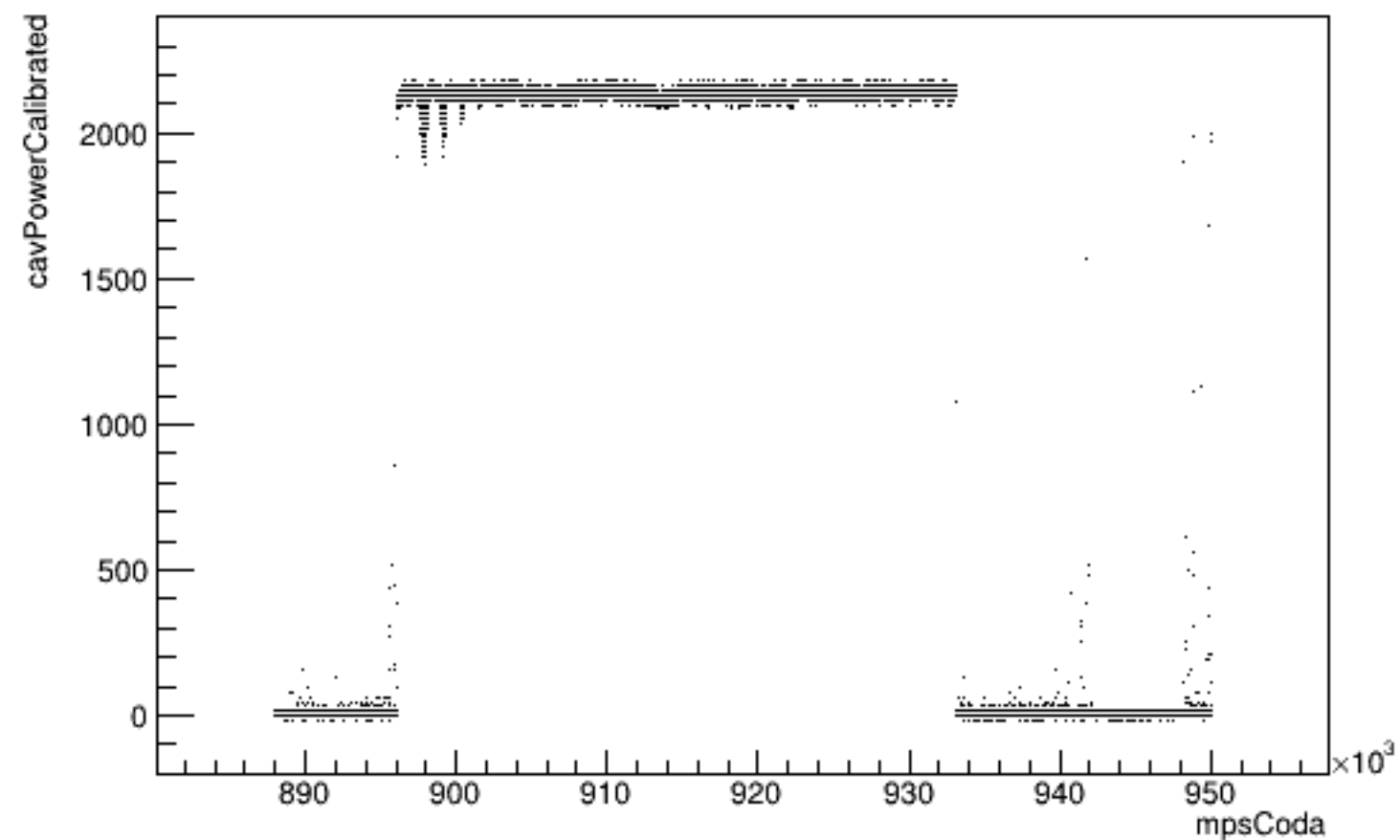
laserState:mpsCoda {mpsCoda&gt;=887988 &amp;&amp; mpsCoda&lt;=950099}



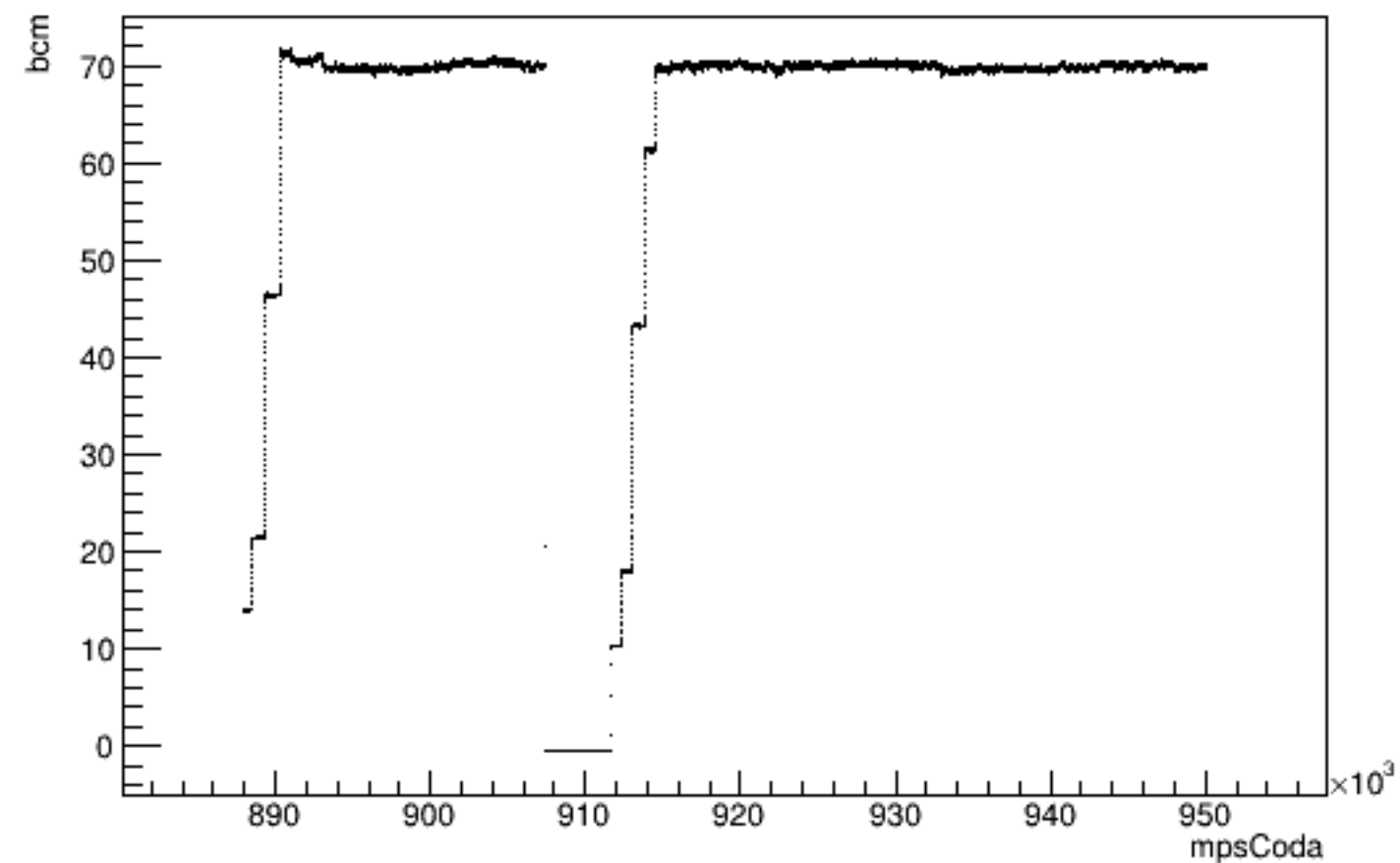
beamState + 1:mpsCoda {mpsCoda&gt;=887988 &amp;&amp; mpsCoda&lt;=950099}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=887988 &amp;&amp; mpsCoda&lt;=950099}



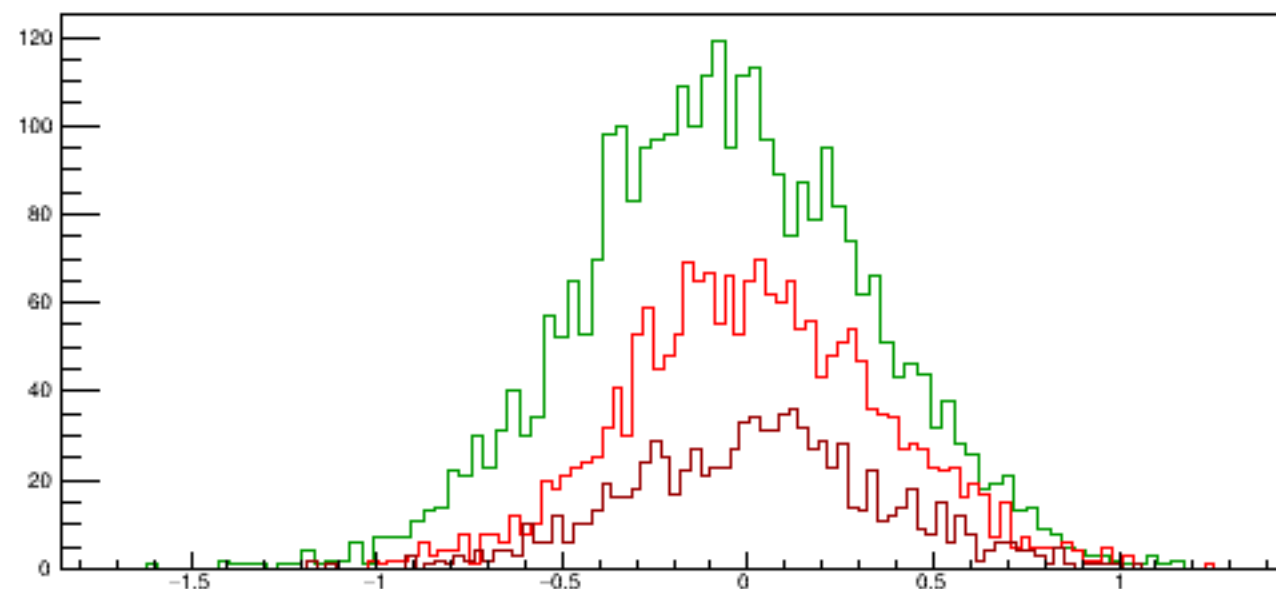
bcm:mpsCoda {mpsCoda&gt;=887988 &amp;&amp; mpsCoda&lt;=950099}



## Cycle 15, Diffs

| Entries: 2011              | Entries: 3181              | Entries: 954               |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0197 +/- 0.0078    | Mean: -0.0639 +/- 0.0069   | Mean: 0.0200 +/- 0.0112    |
| Std Dev: 0.3501 +/- 0.0055 | Std Dev: 0.3876 +/- 0.0049 | Std Dev: 0.3465 +/- 0.0079 |

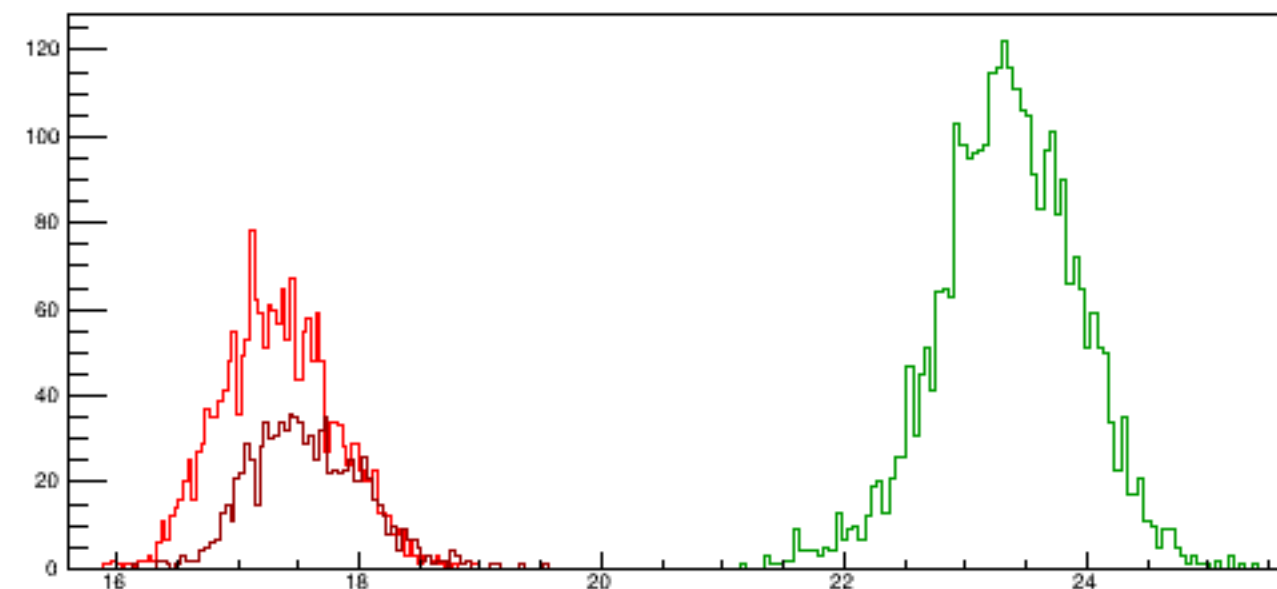
Run 4460 quartetwise, Diffs



## Cycle 15, Sums

| Entries: 2011              | Entries: 3181              | Entries: 954               |
|----------------------------|----------------------------|----------------------------|
| Mean: 17.3370 +/- 0.0106   | Mean: 23.3512 +/- 0.0103   | Mean: 17.5727 +/- 0.0151   |
| Std Dev: 0.4735 +/- 0.0075 | Std Dev: 0.5785 +/- 0.0073 | Std Dev: 0.4664 +/- 0.0107 |

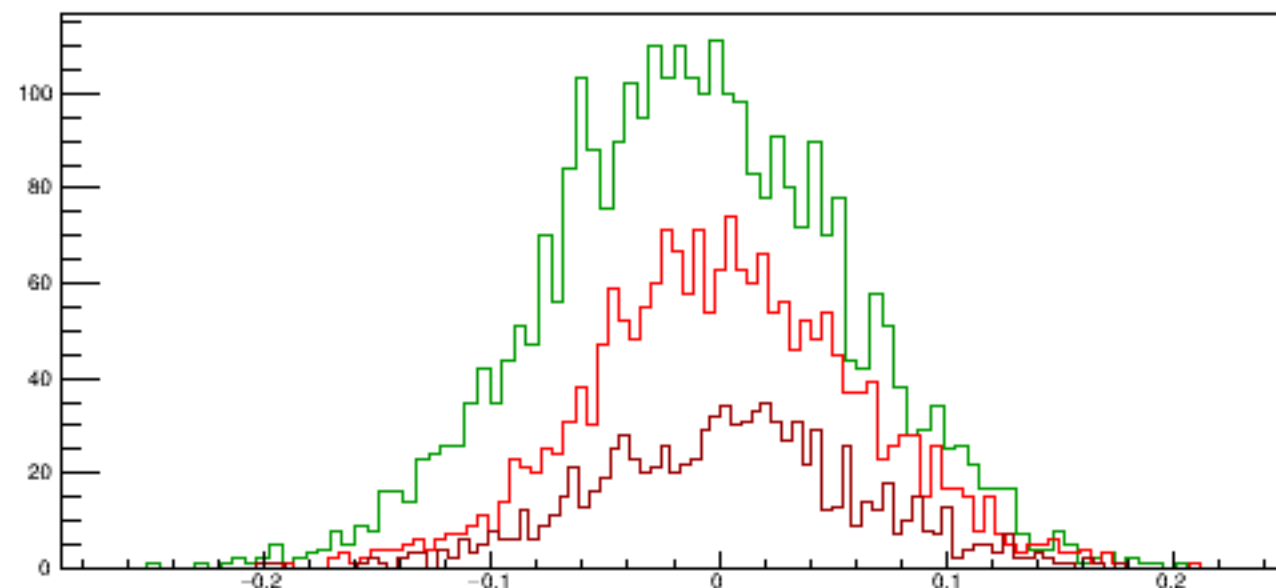
Run 4460 quartetwise, Sums



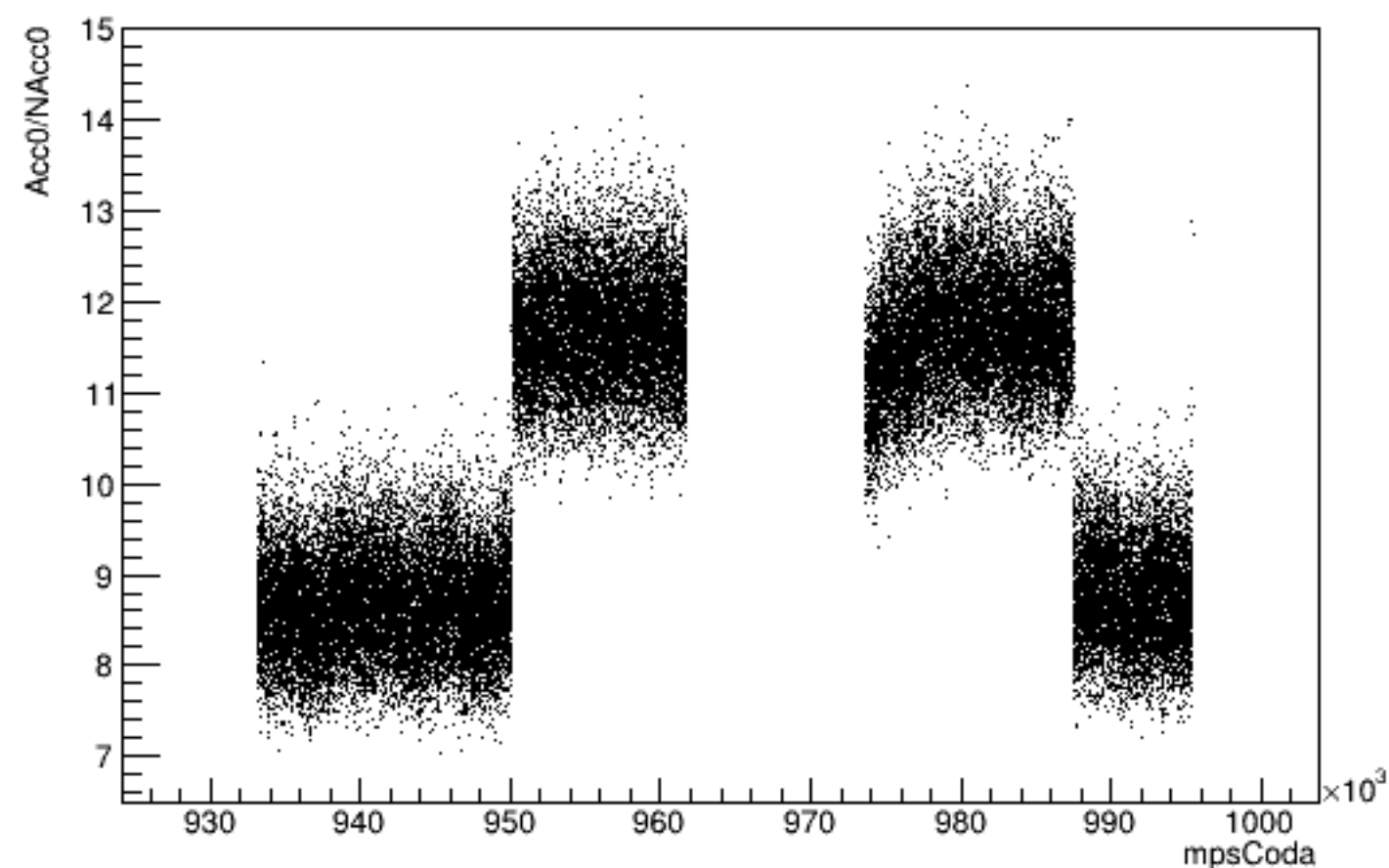
## Cycle 15, Asyms

| Entries: 2011              | Entries: 3181              | Entries: 954               |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0033 +/- 0.0013    | Mean: -0.0109 +/- 0.0012   | Mean: 0.0034 +/- 0.0019    |
| Std Dev: 0.0594 +/- 0.0009 | Std Dev: 0.0658 +/- 0.0008 | Std Dev: 0.0588 +/- 0.0013 |

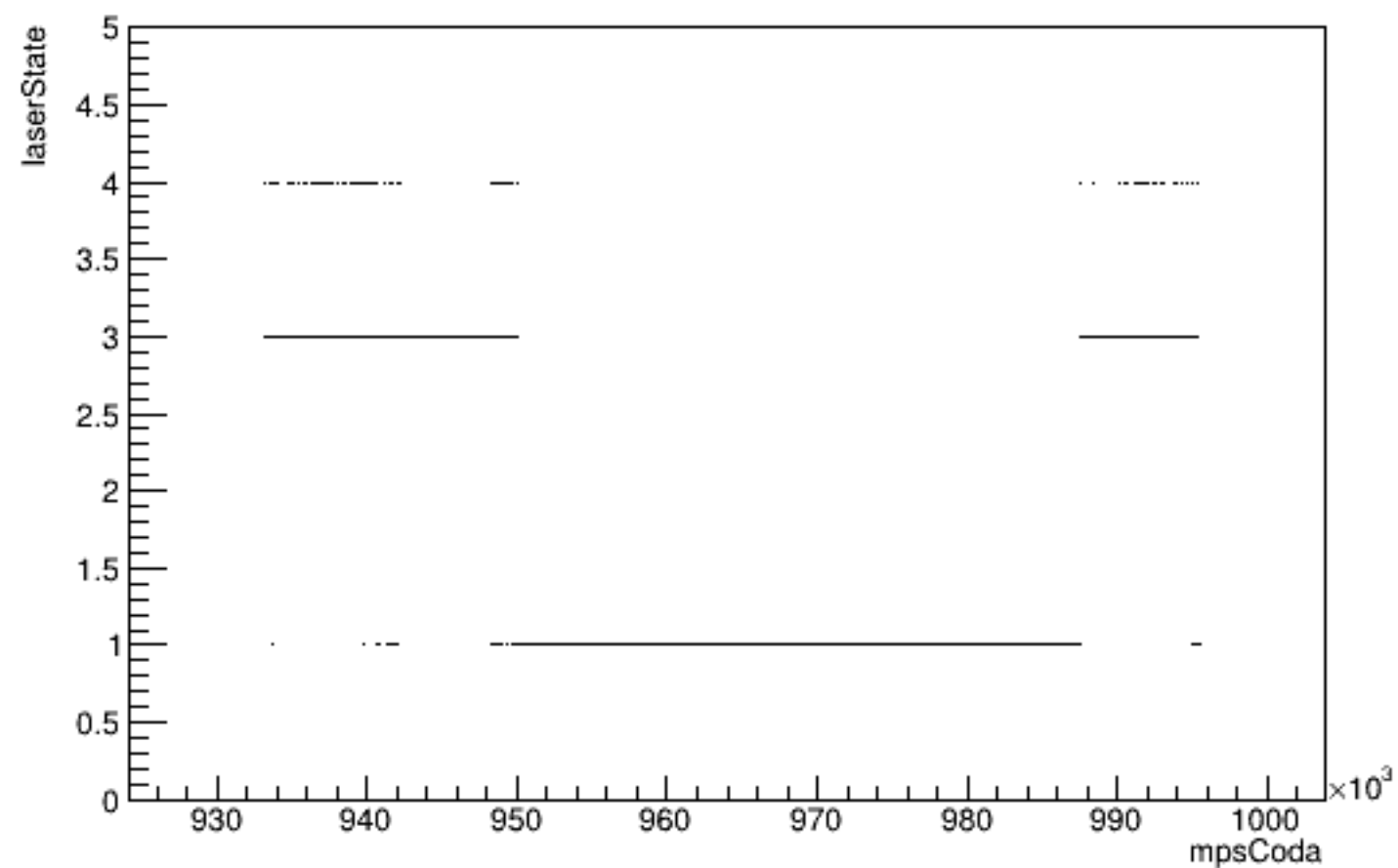
Run 4460 quartetwise, Asyms



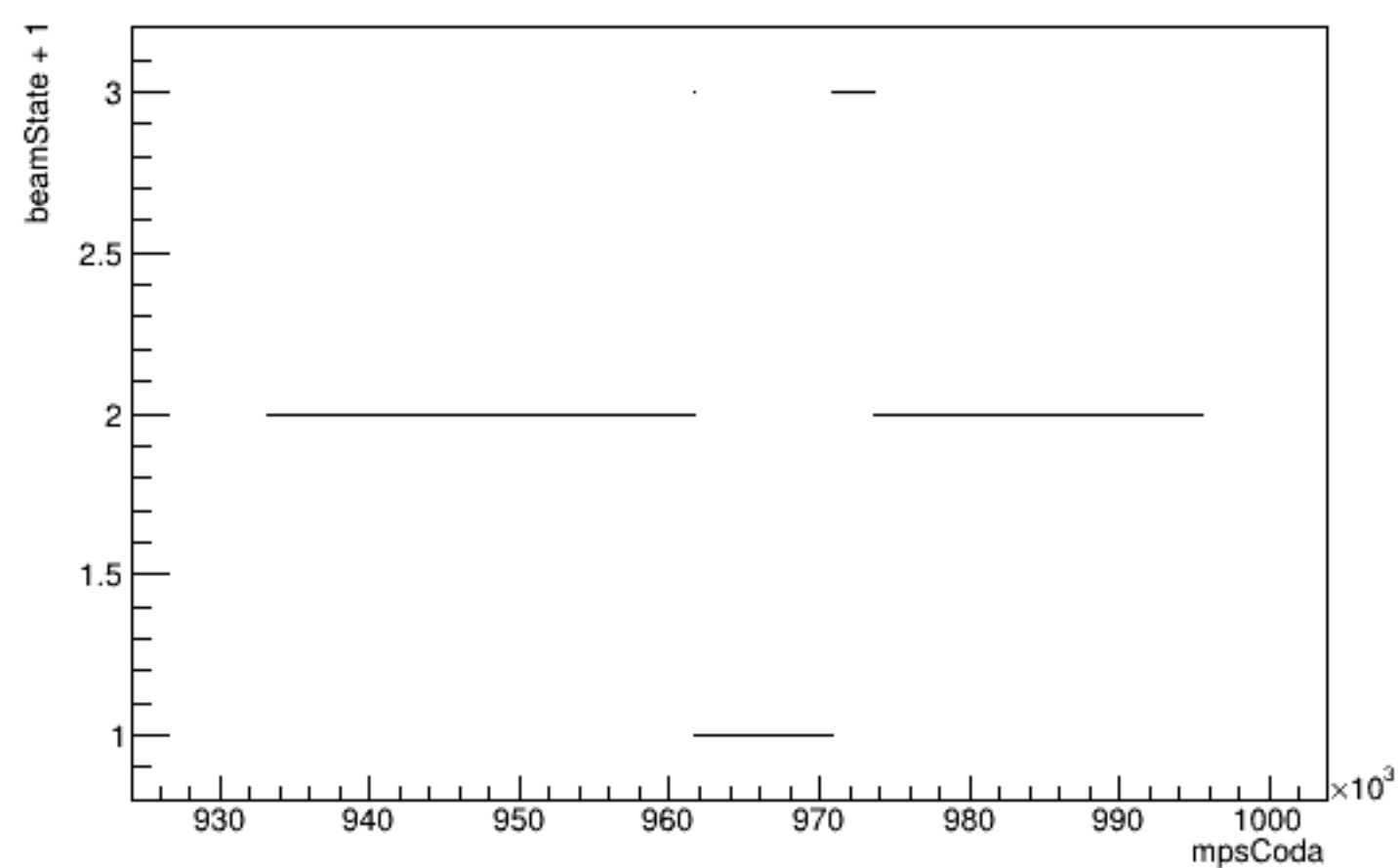
Acc0/NAcc0:mpsCoda (mpsCoda>=933132 && mpsCoda<=995451 && beamState==1)



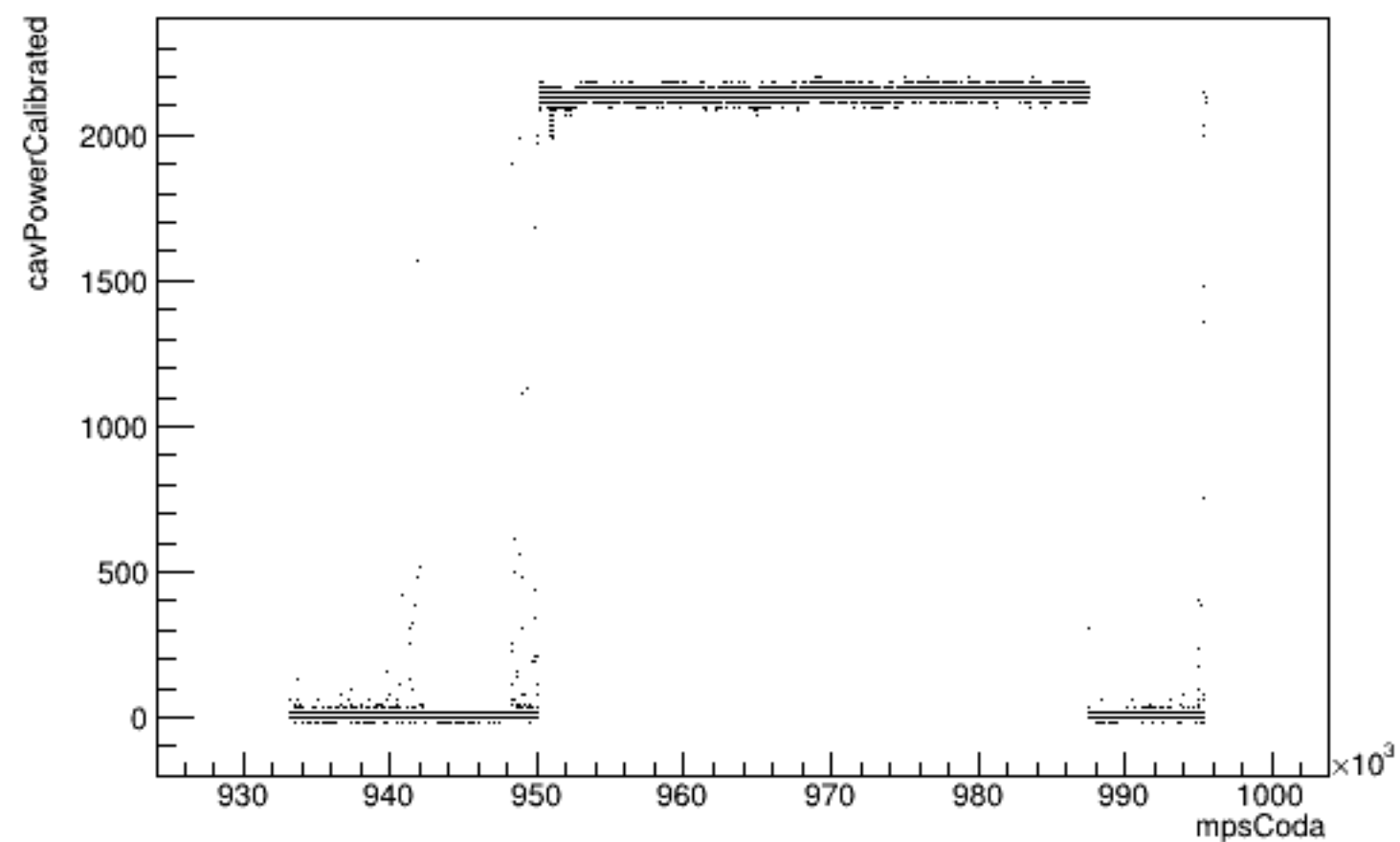
laserState:mpsCoda {mpsCoda&gt;=933132 &amp;&amp; mpsCoda&lt;=995451}



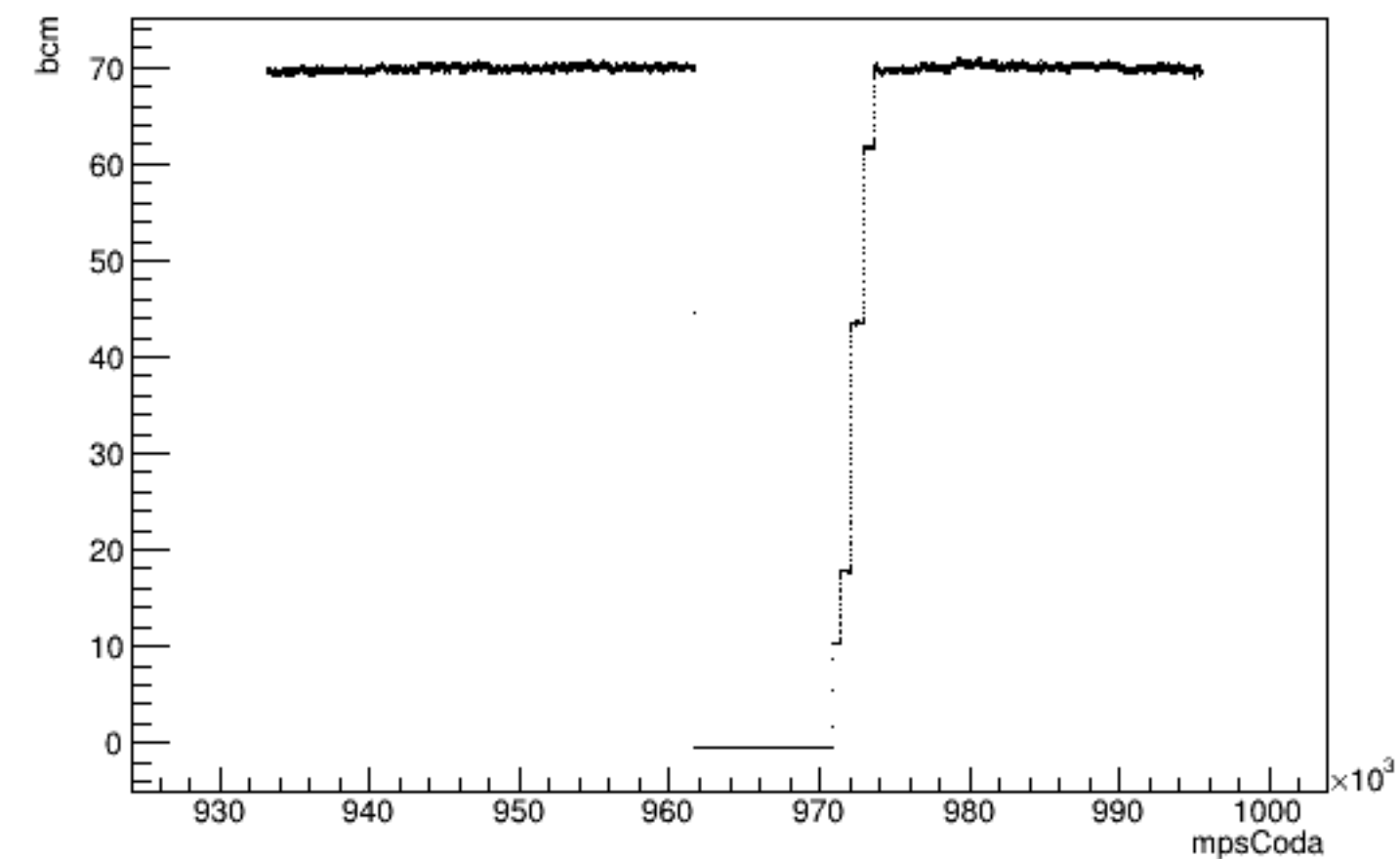
beamState + 1:mpsCoda {mpsCoda&gt;=933132 &amp;&amp; mpsCoda&lt;=995451}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=933132 &amp;&amp; mpsCoda&lt;=995451}



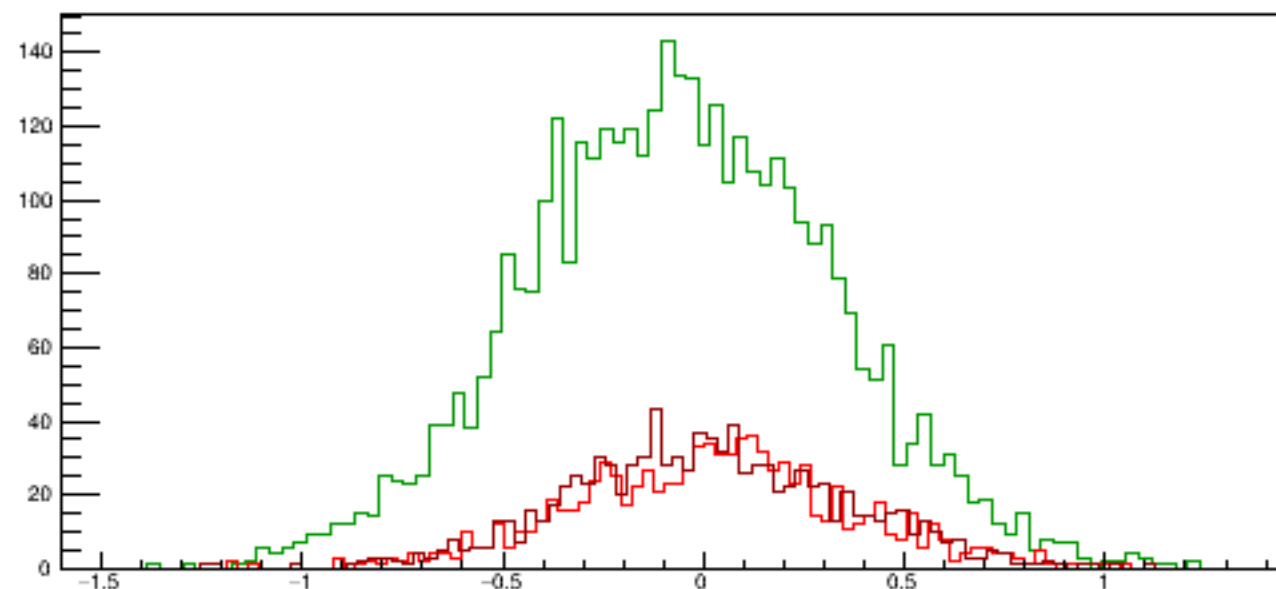
bcm:mpsCoda {mpsCoda&gt;=933132 &amp;&amp; mpsCoda&lt;=995451}



## Cycle 16, Diffs

| Entries: 954               | Entries: 4028              | Entries: 983               |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0200 +/- 0.0112    | Mean: -0.0629 +/- 0.0060   | Mean: 0.0035 +/- 0.0108    |
| Std Dev: 0.3465 +/- 0.0079 | Std Dev: 0.3793 +/- 0.0042 | Std Dev: 0.3402 +/- 0.0077 |

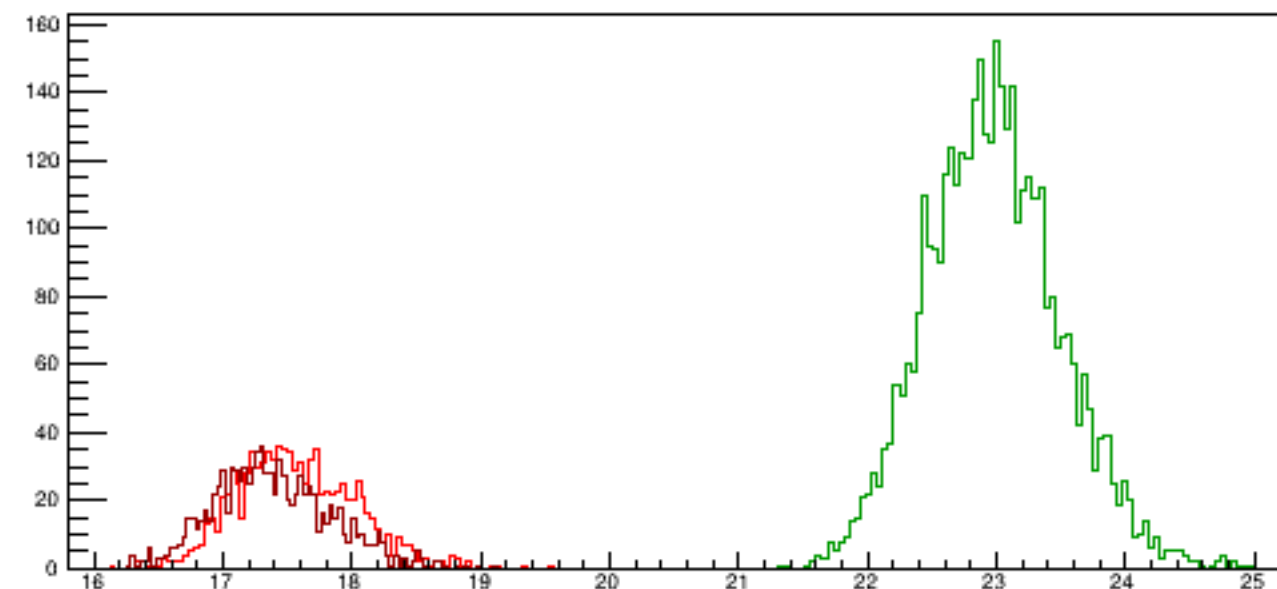
Run 4460 quartetwise, Diffs



## Cycle 16, Sums

| Entries: 954               | Entries: 4028              | Entries: 983               |
|----------------------------|----------------------------|----------------------------|
| Mean: 17.5727 +/- 0.0151   | Mean: 22.9751 +/- 0.0081   | Mean: 17.3893 +/- 0.0147   |
| Std Dev: 0.4664 +/- 0.0107 | Std Dev: 0.5158 +/- 0.0057 | Std Dev: 0.4617 +/- 0.0104 |

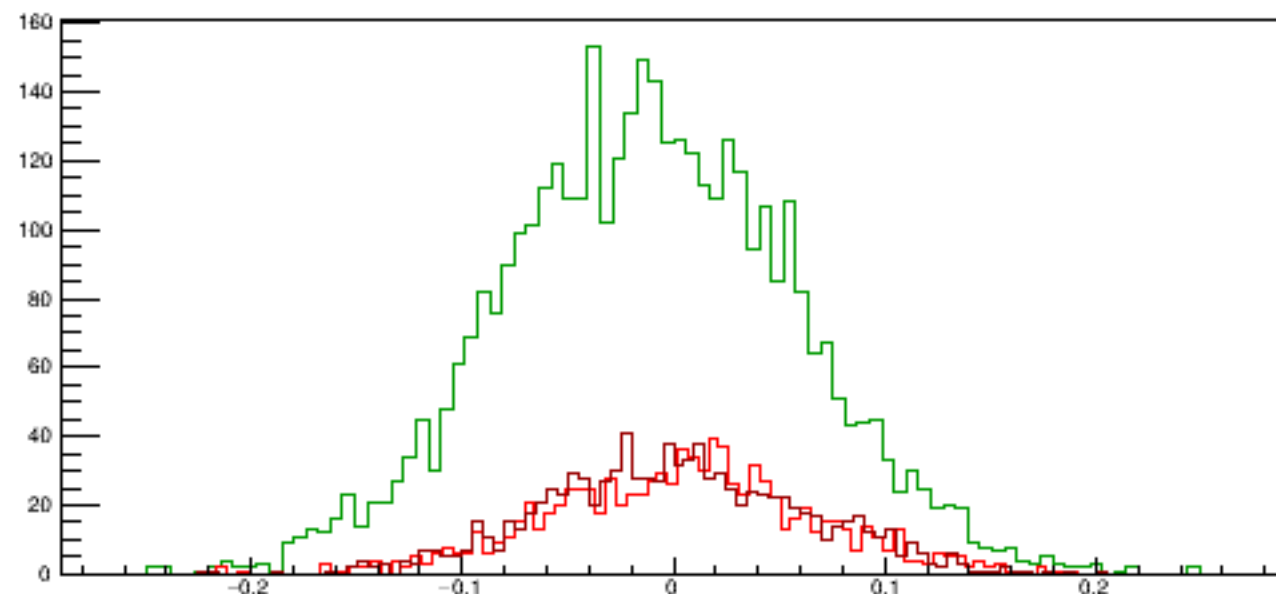
Run 4460 quartetwise, Sums



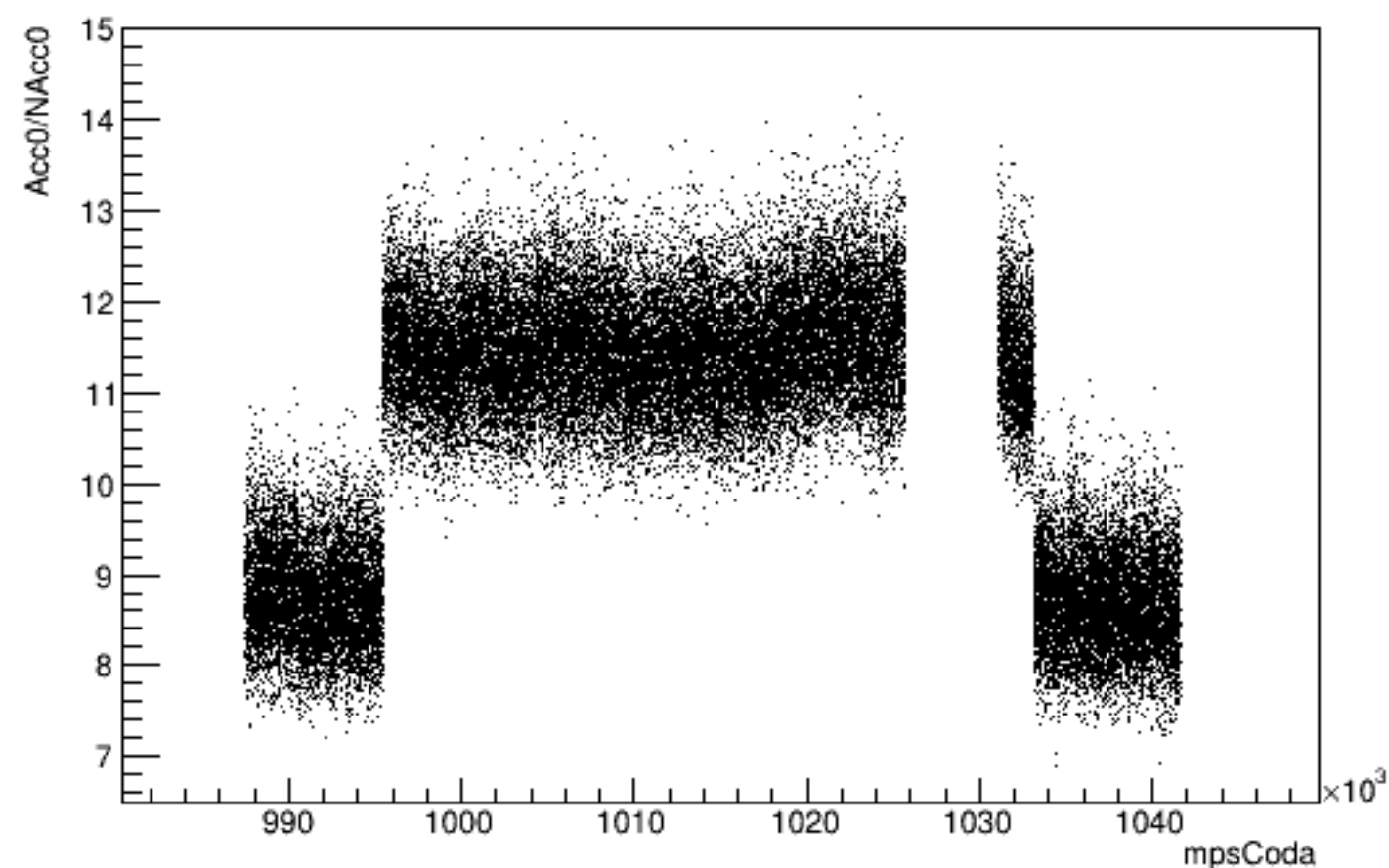
## Cycle 16, Asyms

| Entries: 954               | Entries: 4028              | Entries: 983               |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0036 +/- 0.0020    | Mean: -0.0115 +/- 0.0011   | Mean: 0.0006 +/- 0.0020    |
| Std Dev: 0.0631 +/- 0.0014 | Std Dev: 0.0696 +/- 0.0008 | Std Dev: 0.0619 +/- 0.0014 |

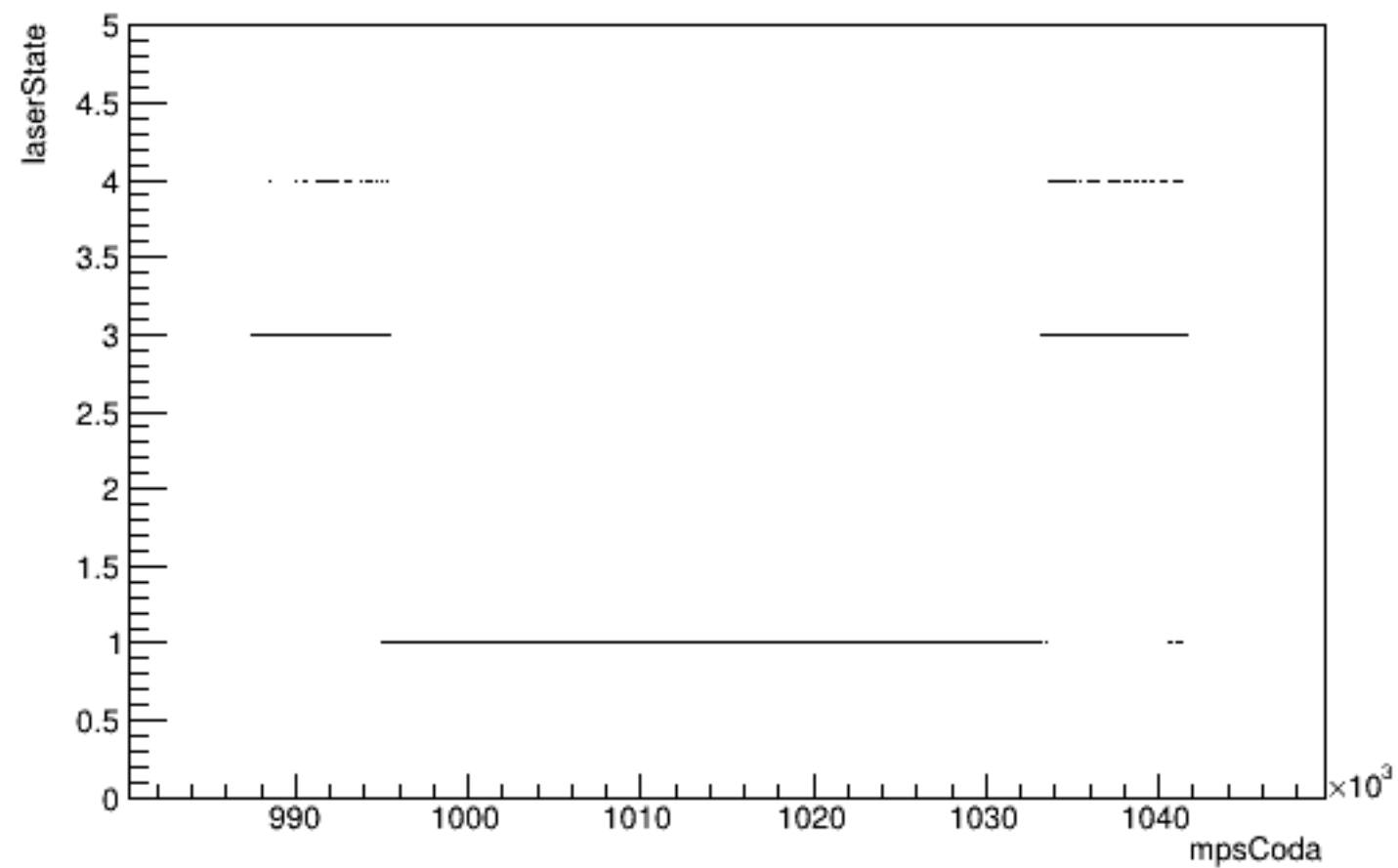
Run 4460 quartetwise, Asyms



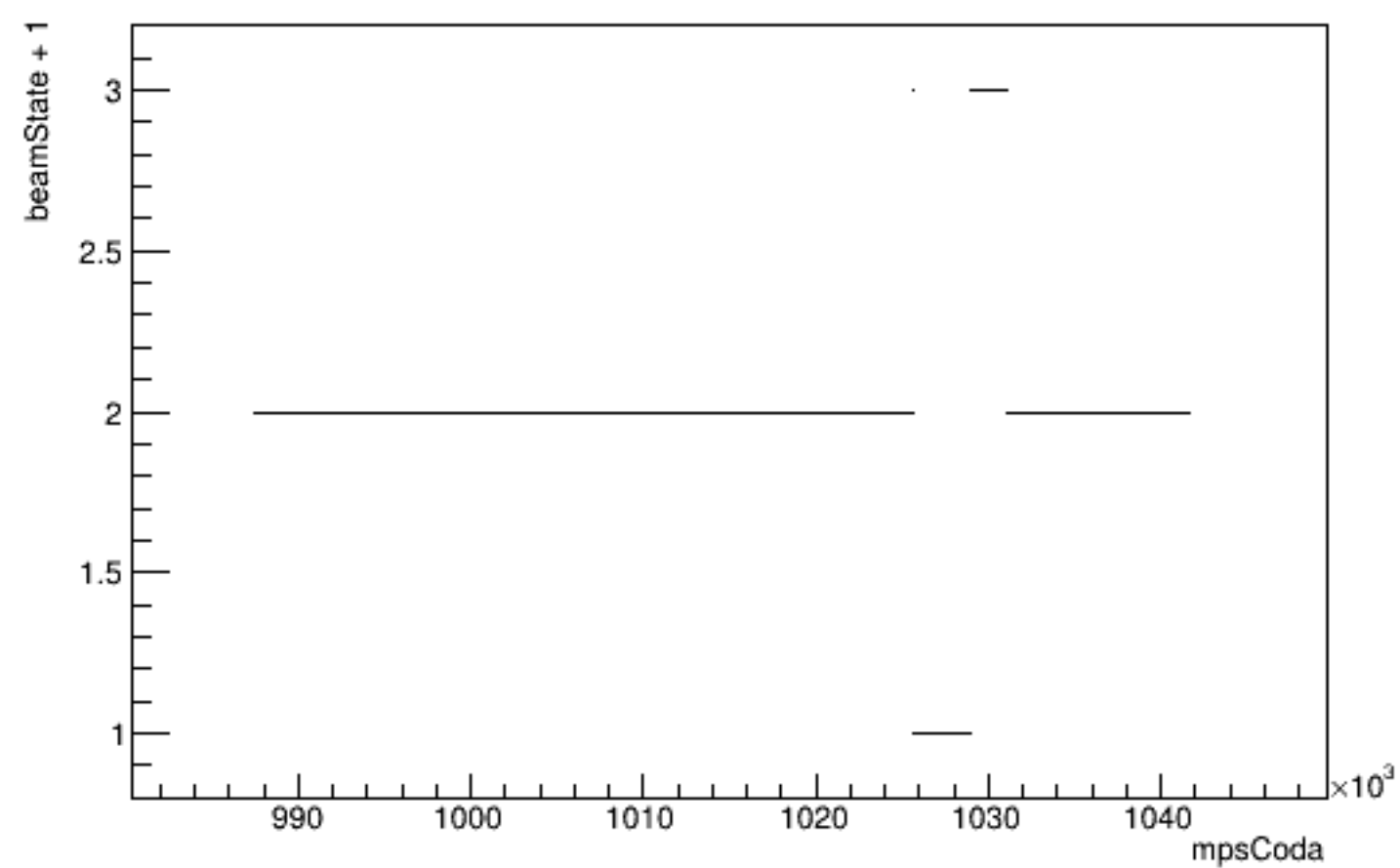
Acc0/NAcc0:mpsCoda (mpsCoda>=987500 && mpsCoda<=1041579 && beamState==1)



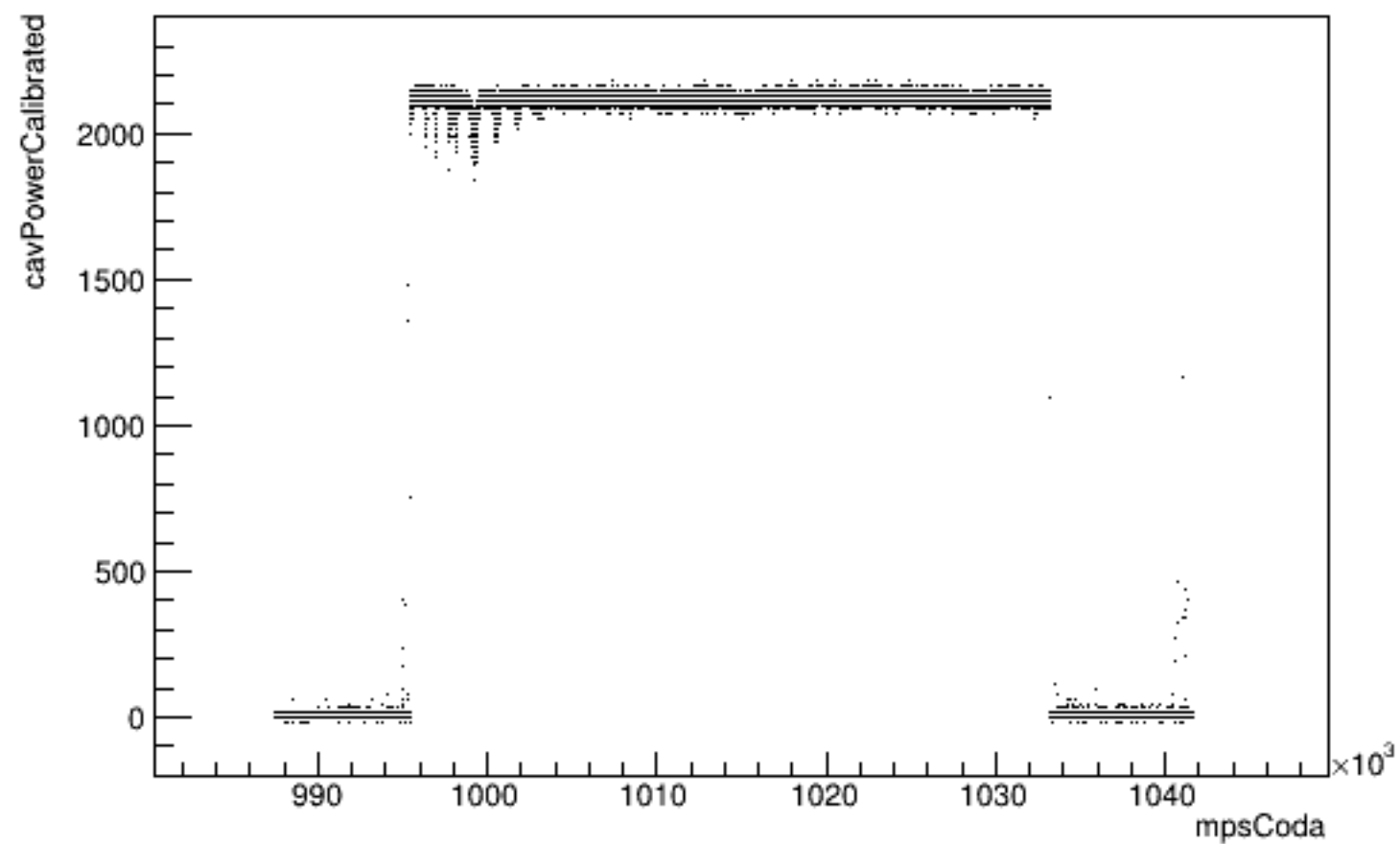
laserState:mpsCoda {mpsCoda&gt;=987500 &amp;&amp; mpsCoda&lt;=1041579}



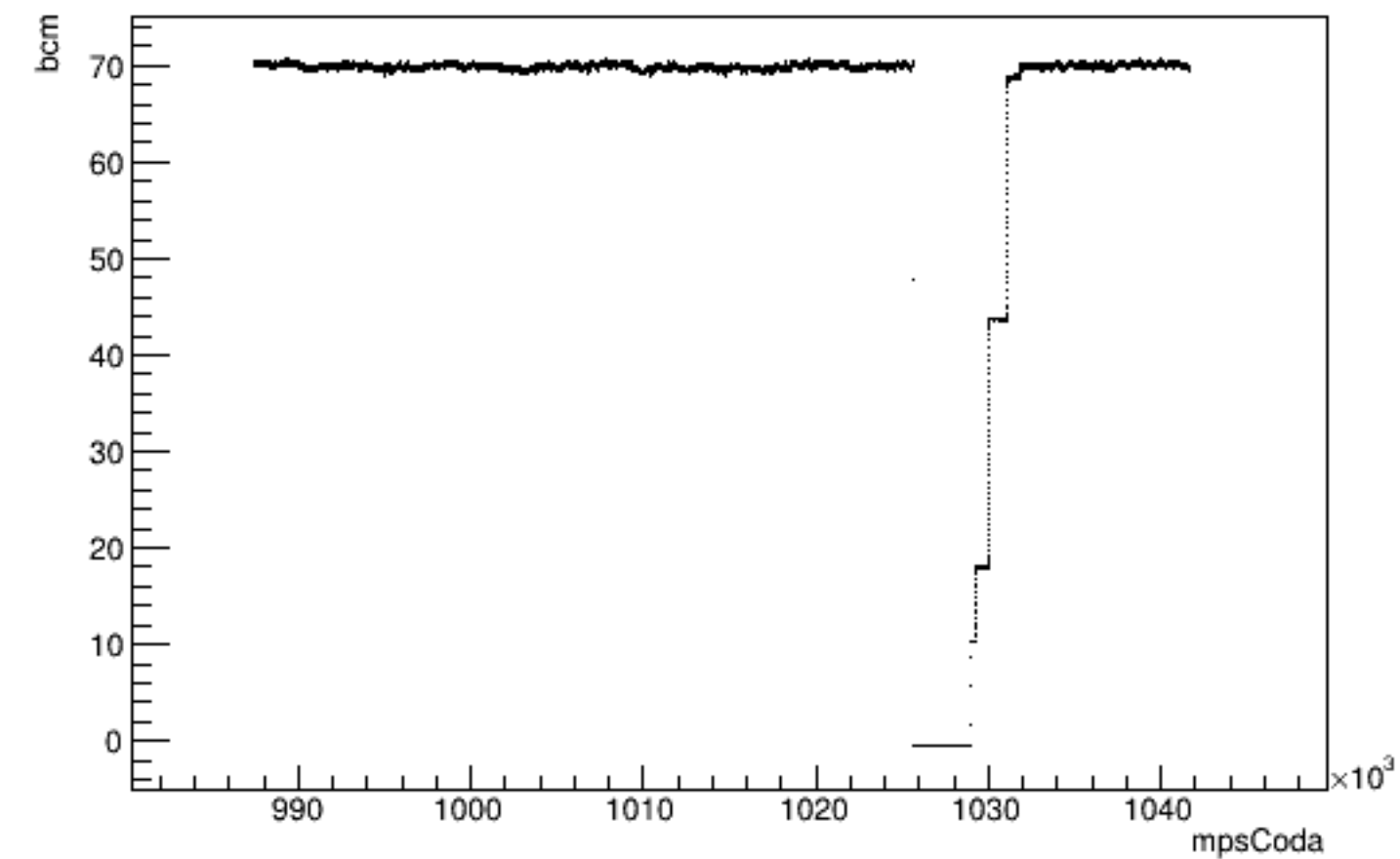
beamState + 1:mpsCoda {mpsCoda&gt;=987500 &amp;&amp; mpsCoda&lt;=1041579}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=987500 &amp;&amp; mpsCoda&lt;=1041579}



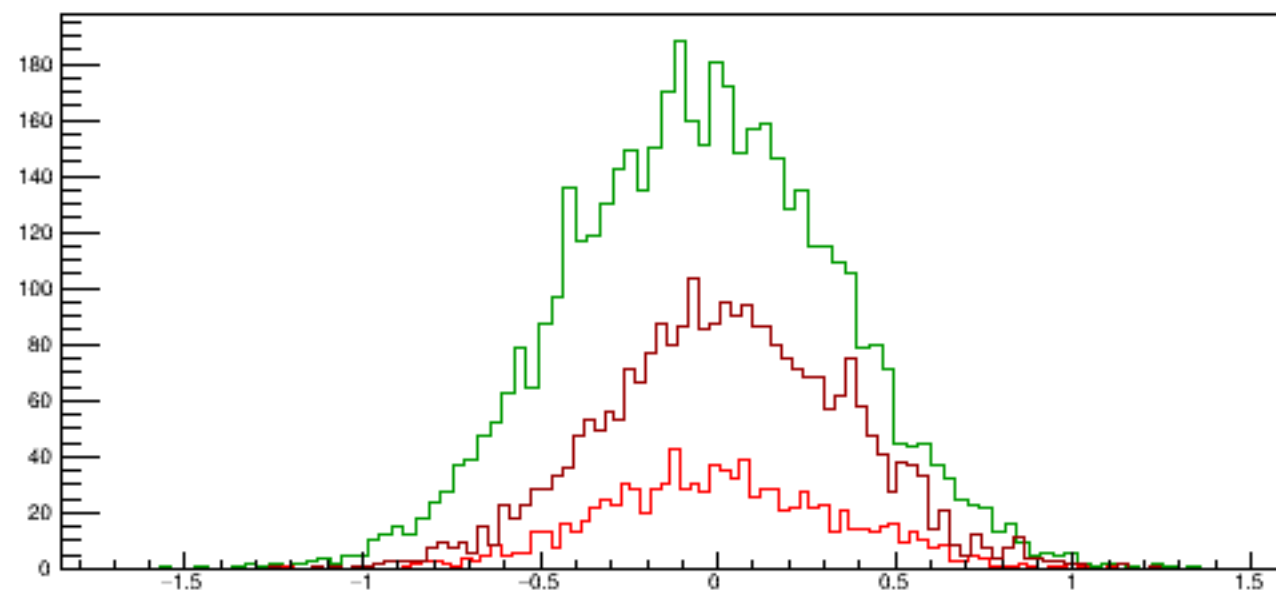
bcm:mpsCoda {mpsCoda&gt;=987500 &amp;&amp; mpsCoda&lt;=1041579}



## Cycle 17, Diffs

| Entries: 983               | Entries: 4707              | Entries: 2668              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0035 +/- 0.0108    | Mean: -0.0465 +/- 0.0056   | Mean: 0.0261 +/- 0.0067    |
| Std Dev: 0.3402 +/- 0.0077 | Std Dev: 0.3813 +/- 0.0039 | Std Dev: 0.3436 +/- 0.0047 |

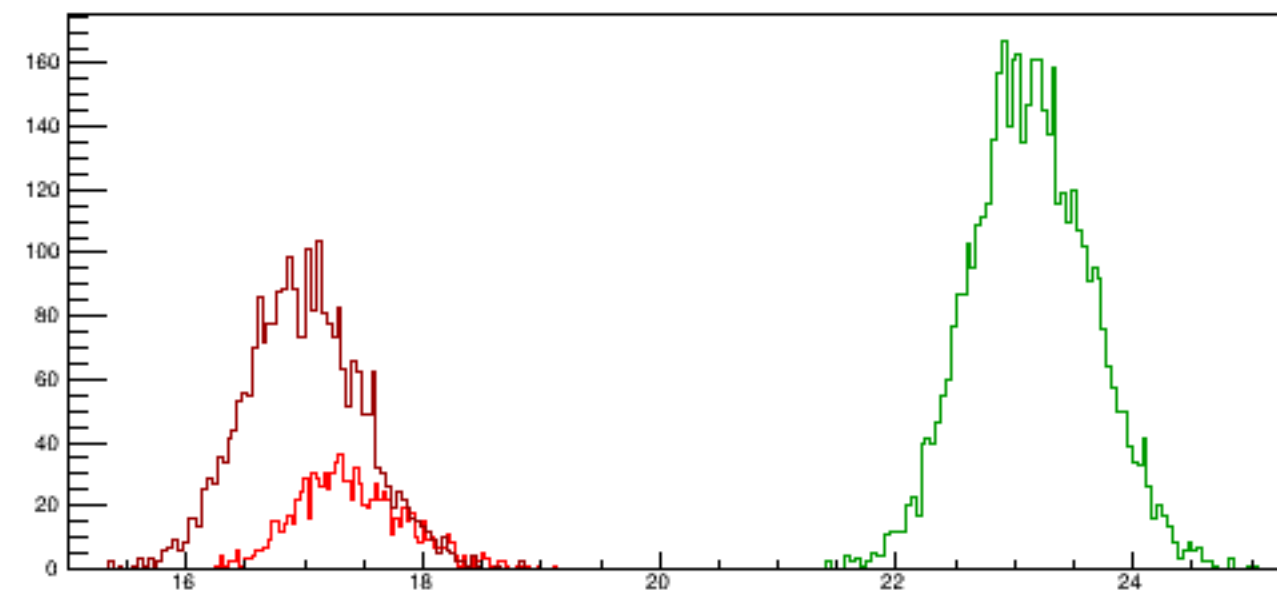
Run 4460 quartetwise, Diffs



## Cycle 17, Sums

| Entries: 983               | Entries: 4707              | Entries: 2668              |
|----------------------------|----------------------------|----------------------------|
| Mean: 17.3893 +/- 0.0147   | Mean: 23.1365 +/- 0.0075   | Mean: 16.9925 +/- 0.0096   |
| Std Dev: 0.4617 +/- 0.0104 | Std Dev: 0.5121 +/- 0.0053 | Std Dev: 0.4944 +/- 0.0068 |

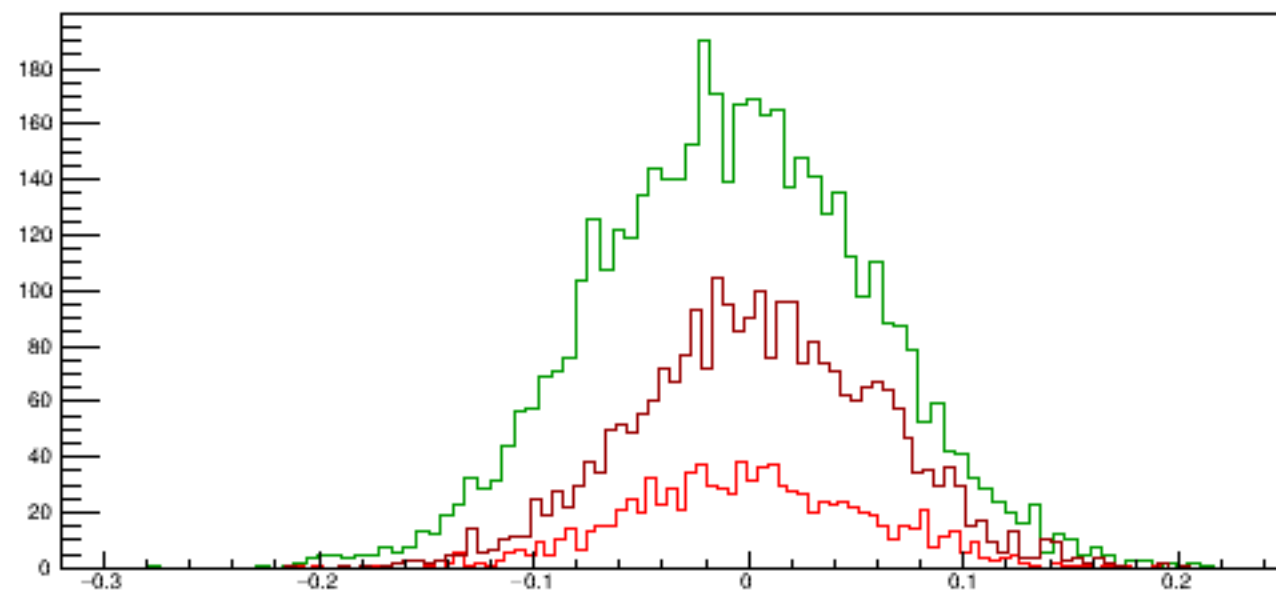
Run 4460 quartetwise, Sums



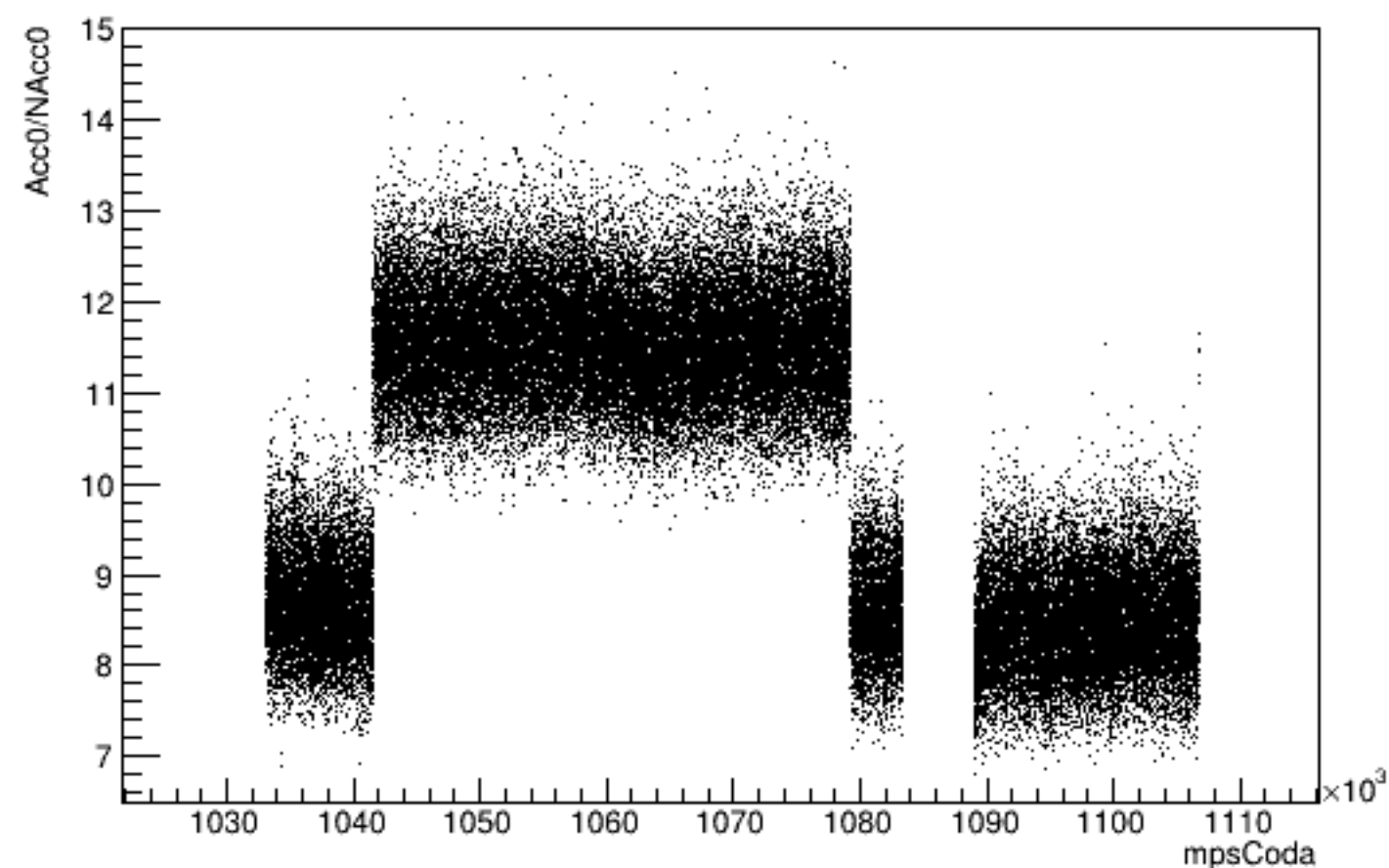
## Cycle 17, Asyms

| Entries: 983               | Entries: 4707              | Entries: 2668              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0006 +/- 0.0018    | Mean: -0.0078 +/- 0.0009   | Mean: 0.0044 +/- 0.0011    |
| Std Dev: 0.0572 +/- 0.0013 | Std Dev: 0.0645 +/- 0.0007 | Std Dev: 0.0578 +/- 0.0008 |

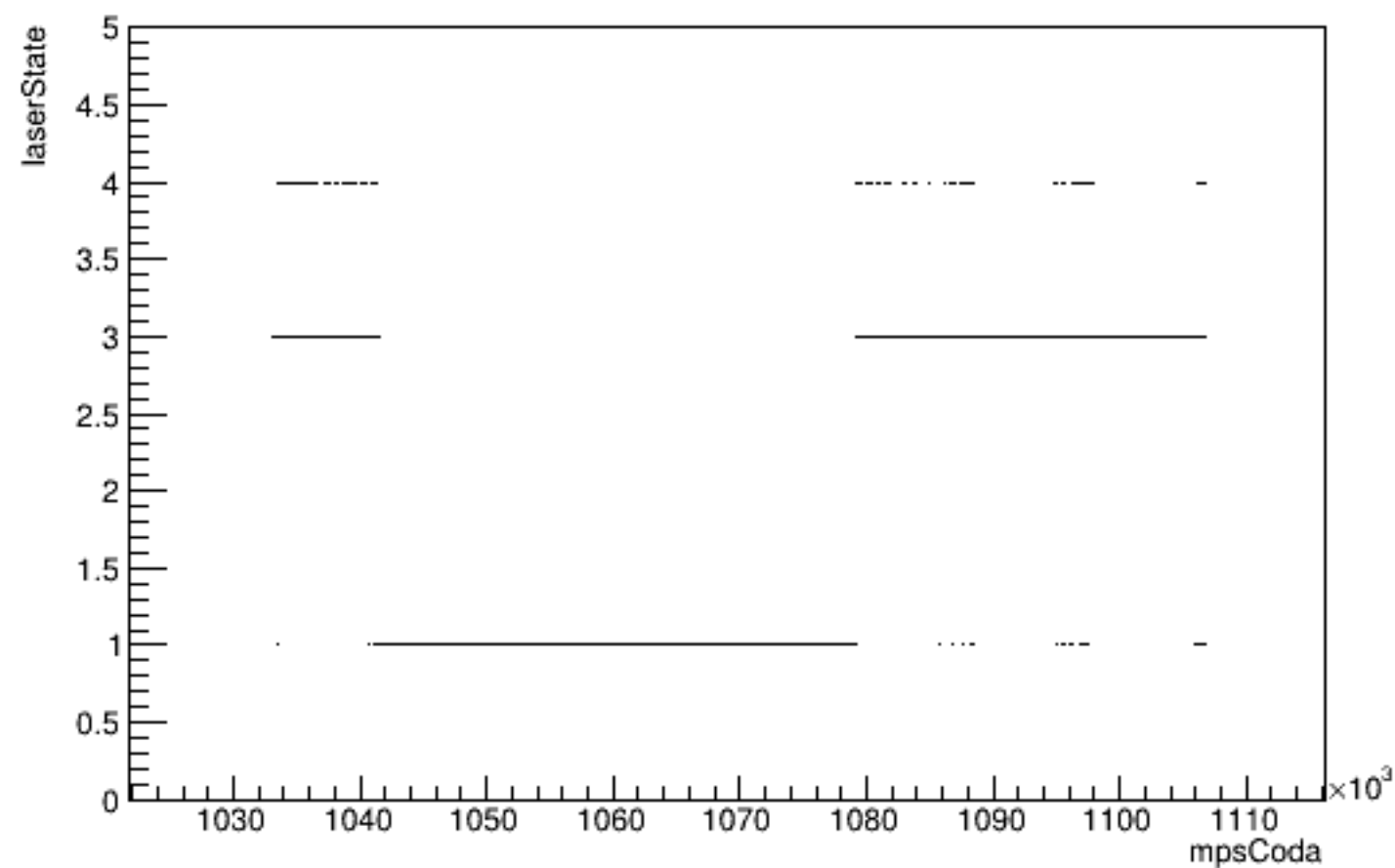
Run 4460 quartetwise, Asyms



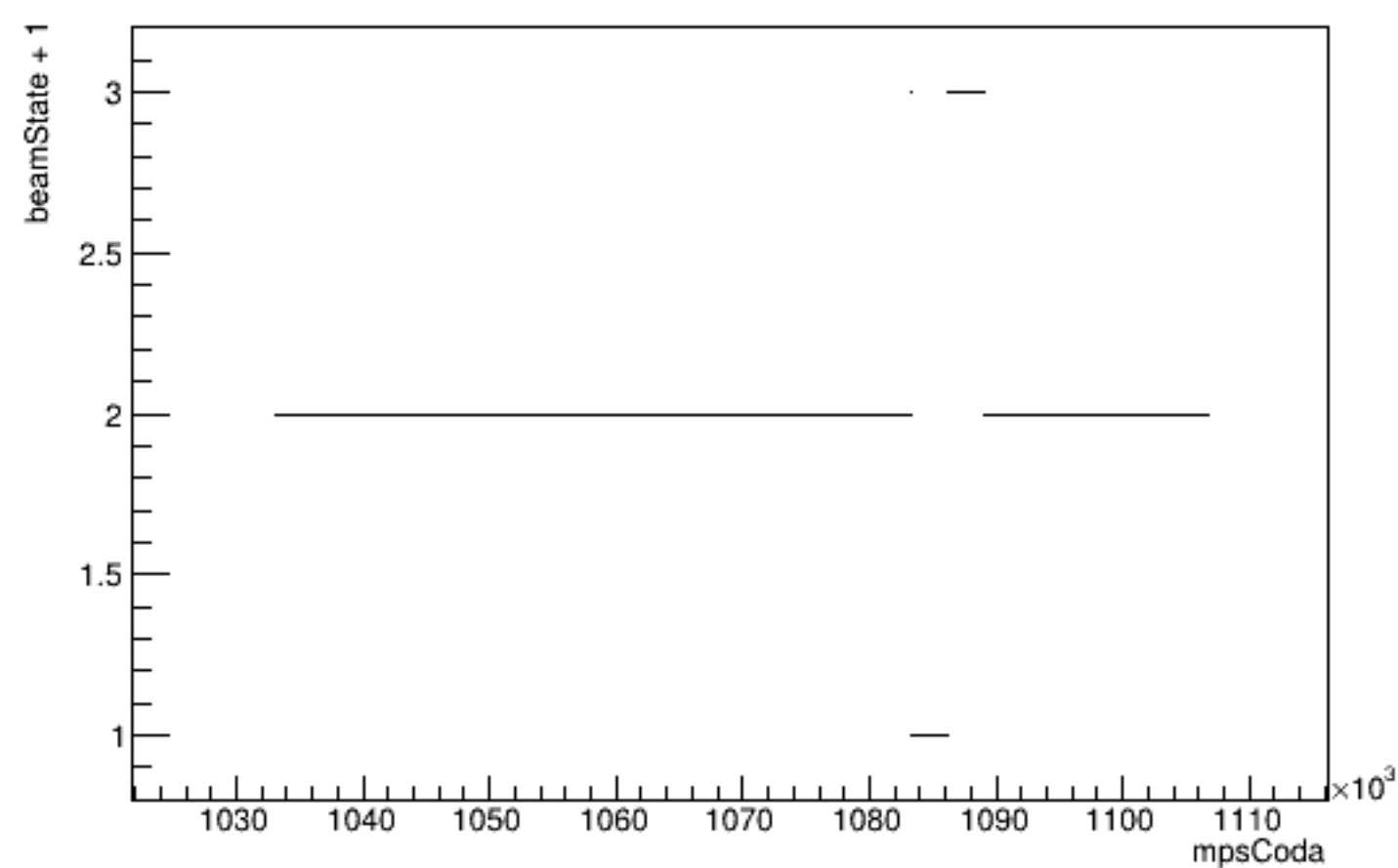
Acc0/NAcc0:mpsCoda (mpsCoda>=1033124 && mpsCoda<=1106723 && beamState==1)



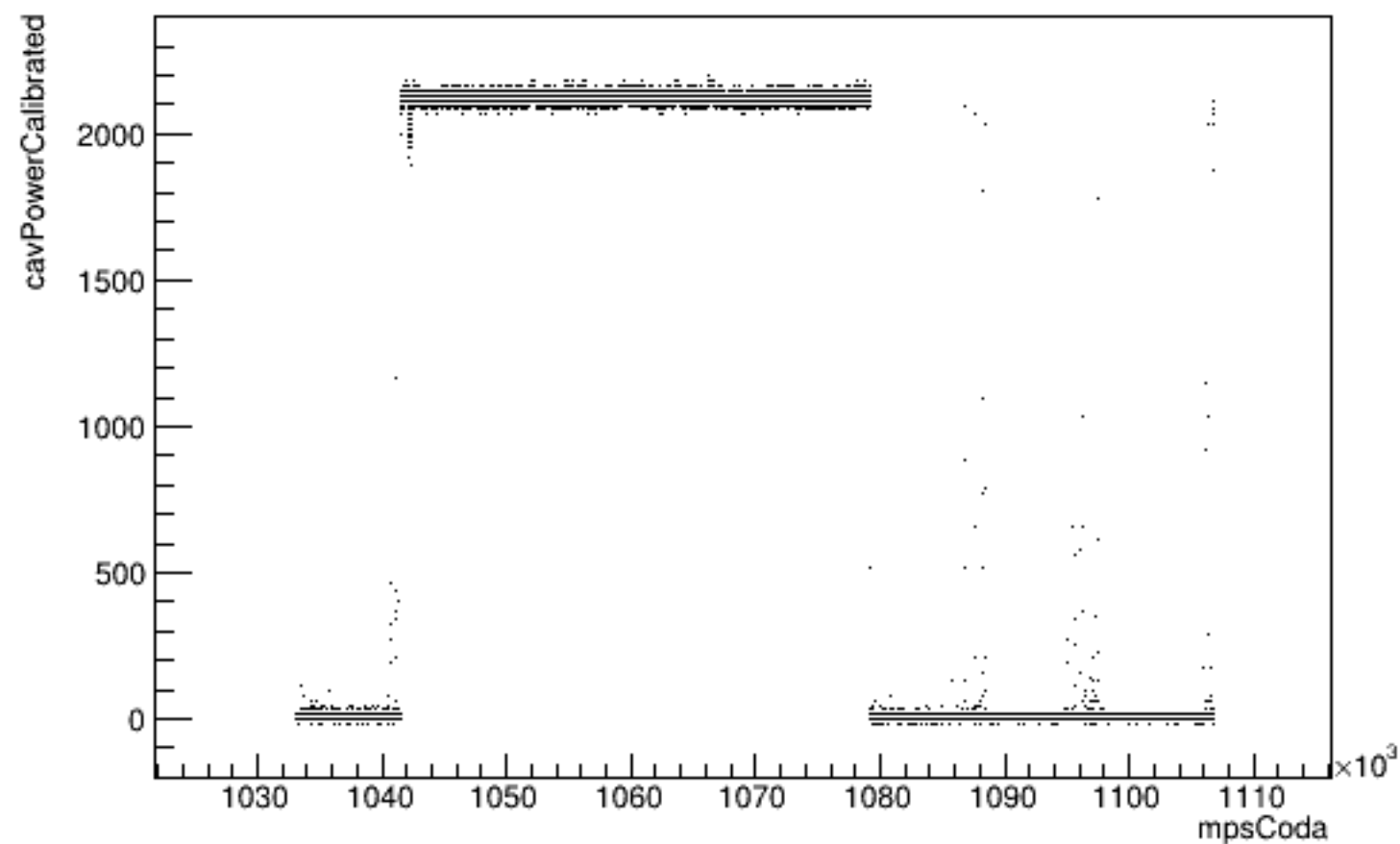
laserState:mpsCoda {mpsCoda&gt;=1033124 &amp;&amp; mpsCoda&lt;=1106723}



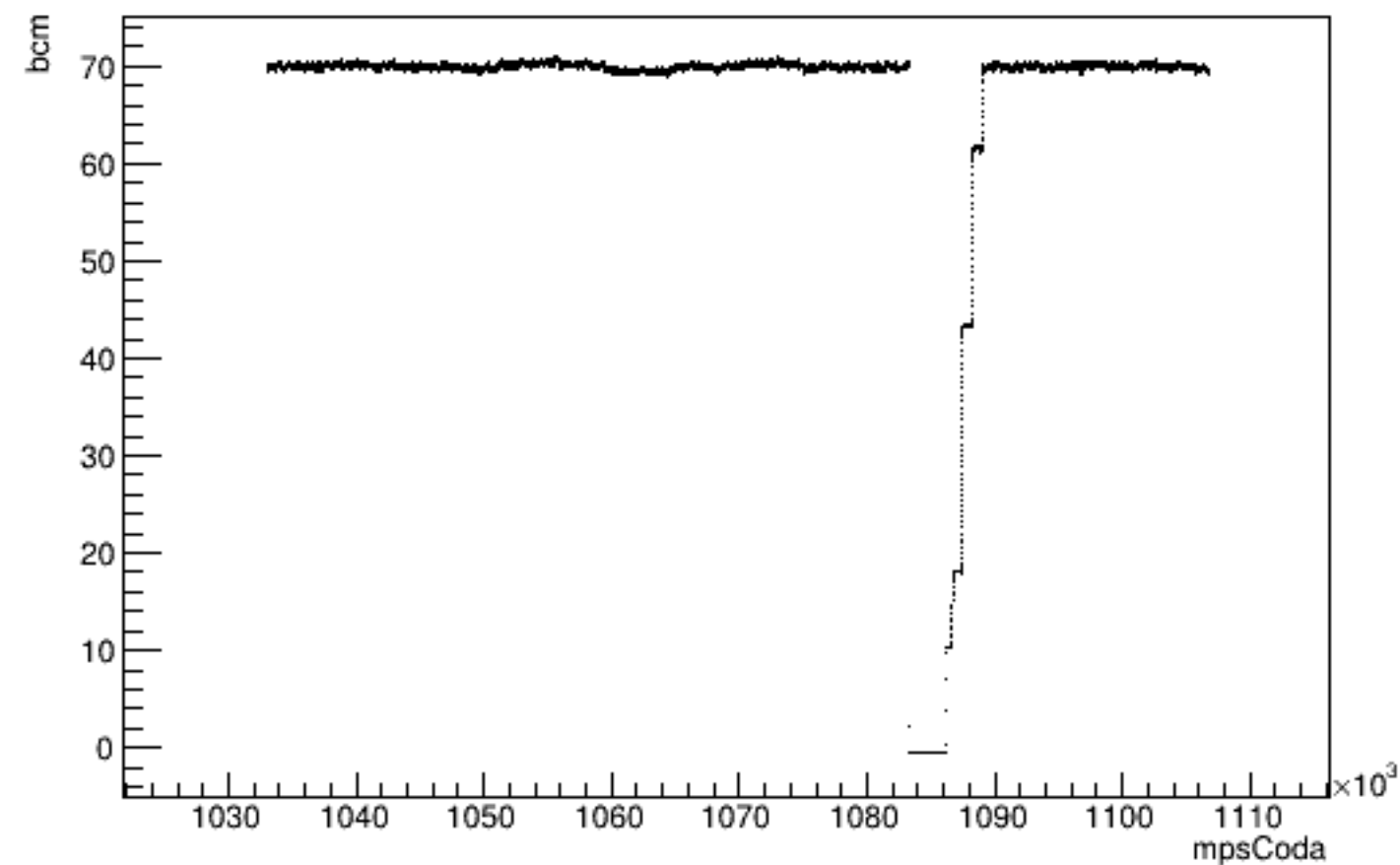
beamState + 1:mpsCoda {mpsCoda&gt;=1033124 &amp;&amp; mpsCoda&lt;=1106723}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1033124 &amp;&amp; mpsCoda&lt;=1106723}



bcm:mpsCoda {mpsCoda&gt;=1033124 &amp;&amp; mpsCoda&lt;=1106723}



## Cycle 18, Diffs

Entries: 2668

Mean: 0.0261 +/- 0.0067

Std Dev: 0.3436 +/- 0.0047

Entries: 3833

Mean: -0.0610 +/- 0.0064

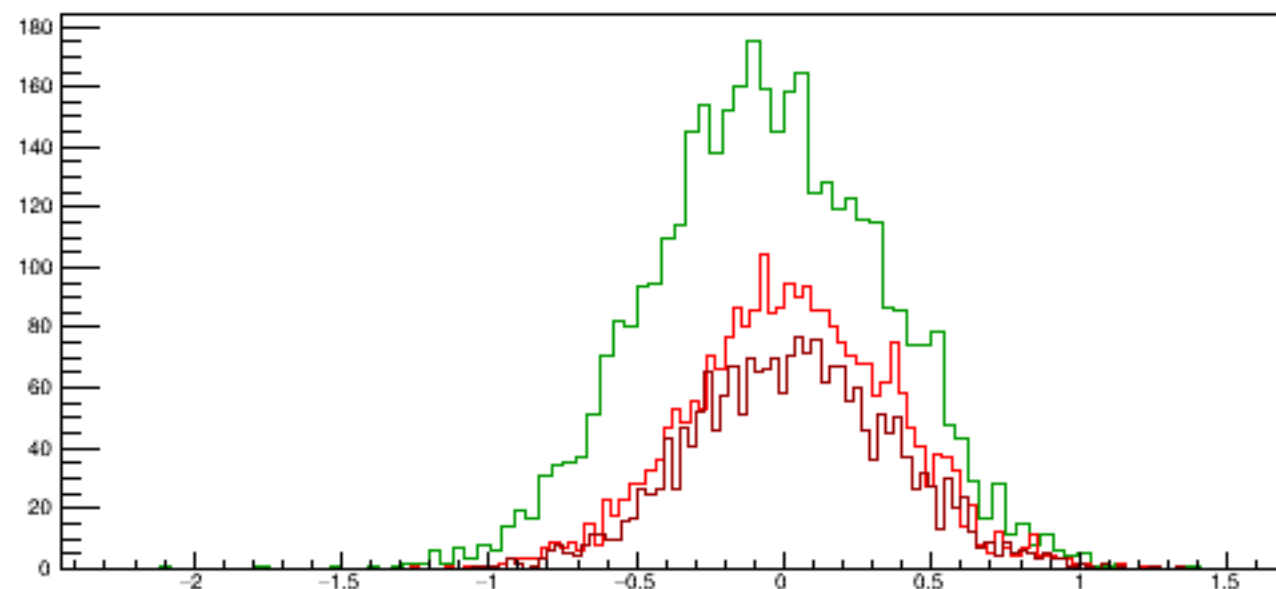
Std Dev: 0.3944 +/- 0.0045

Entries: 2144

Mean: 0.0304 +/- 0.0074

Std Dev: 0.3404 +/- 0.0052

Run 4460 quartetwise, Diffs



## Cycle 18, Sums

Entries: 2668

Mean: 16.9925 +/- 0.0096

Std Dev: 0.4944 +/- 0.0068

Entries: 3833

Mean: 22.1591 +/- 0.0116

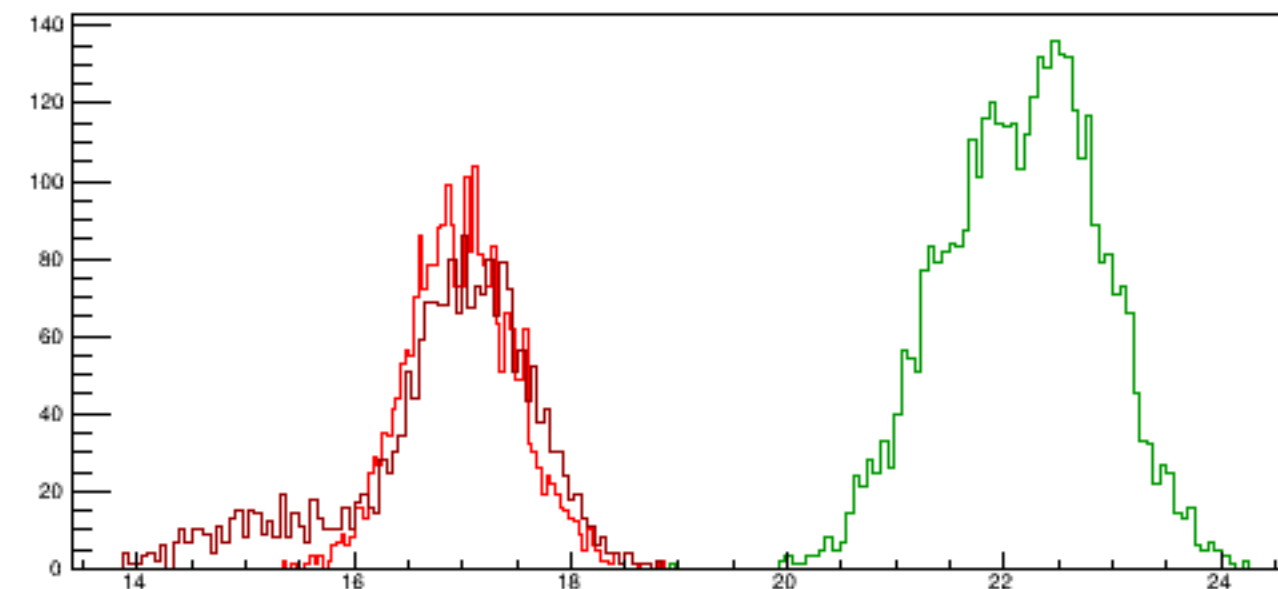
Std Dev: 0.7210 +/- 0.0082

Entries: 2144

Mean: 16.8134 +/- 0.0190

Std Dev: 0.8821 +/- 0.0135

Run 4460 quartetwise, Sums



## Cycle 18, Asyms

Entries: 2668

Mean: 0.0050 +/- 0.0013

Std Dev: 0.0654 +/- 0.0009

Entries: 3833

Mean: -0.0117 +/- 0.0012

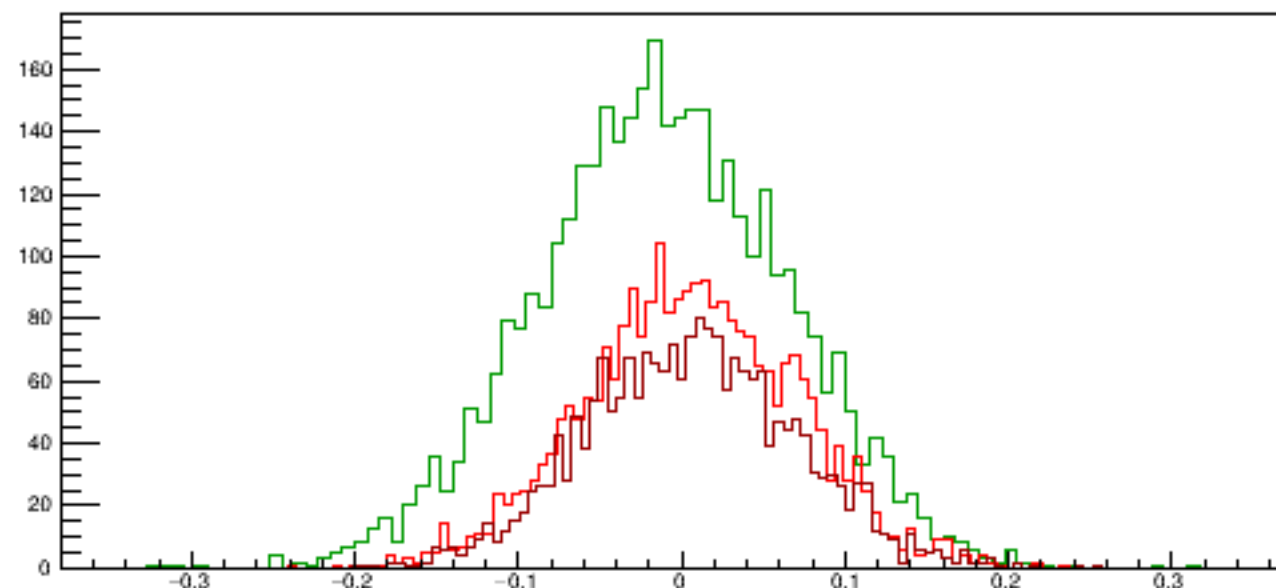
Std Dev: 0.0764 +/- 0.0009

Entries: 2144

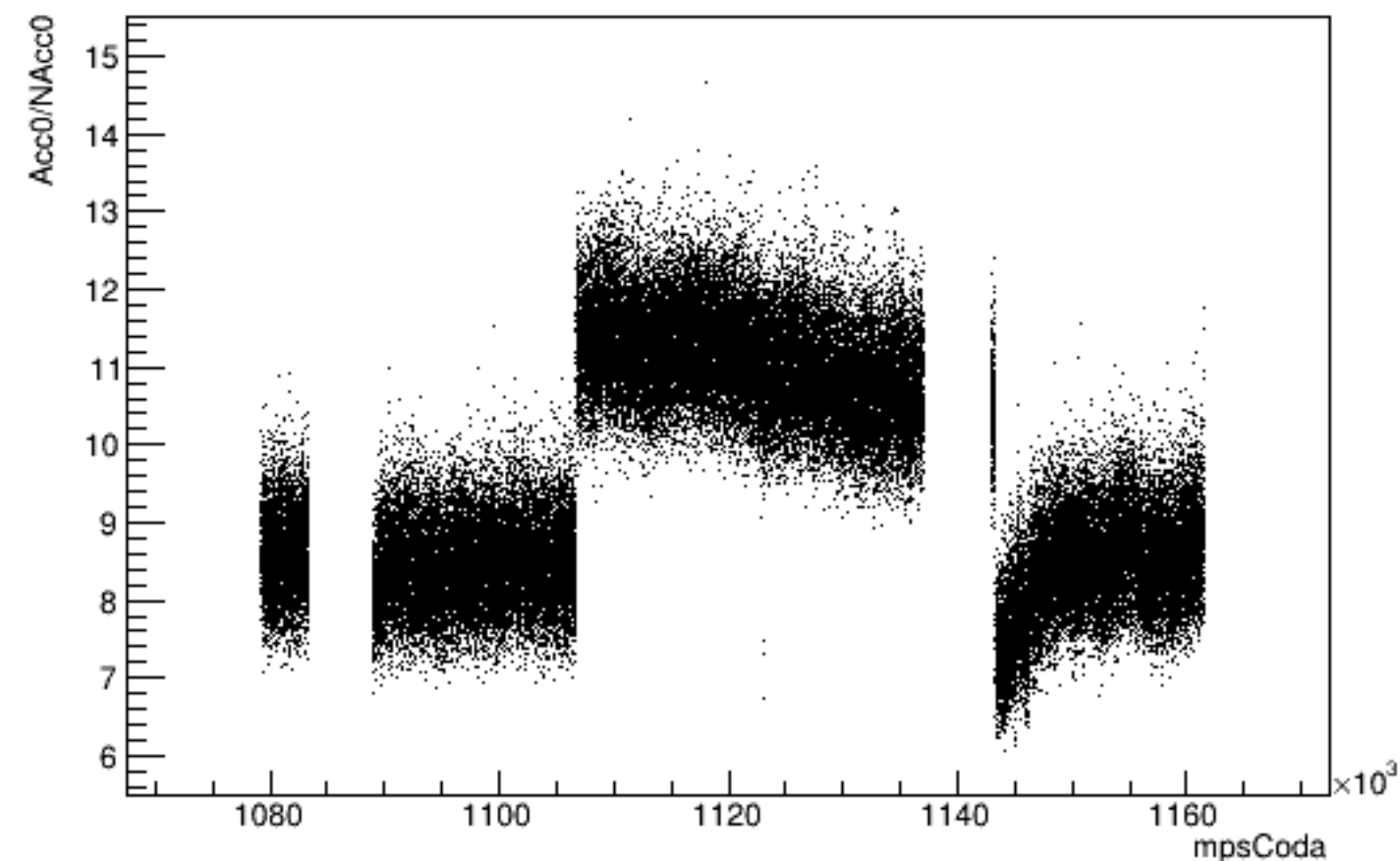
Mean: 0.0058 +/- 0.0014

Std Dev: 0.0648 +/- 0.0010

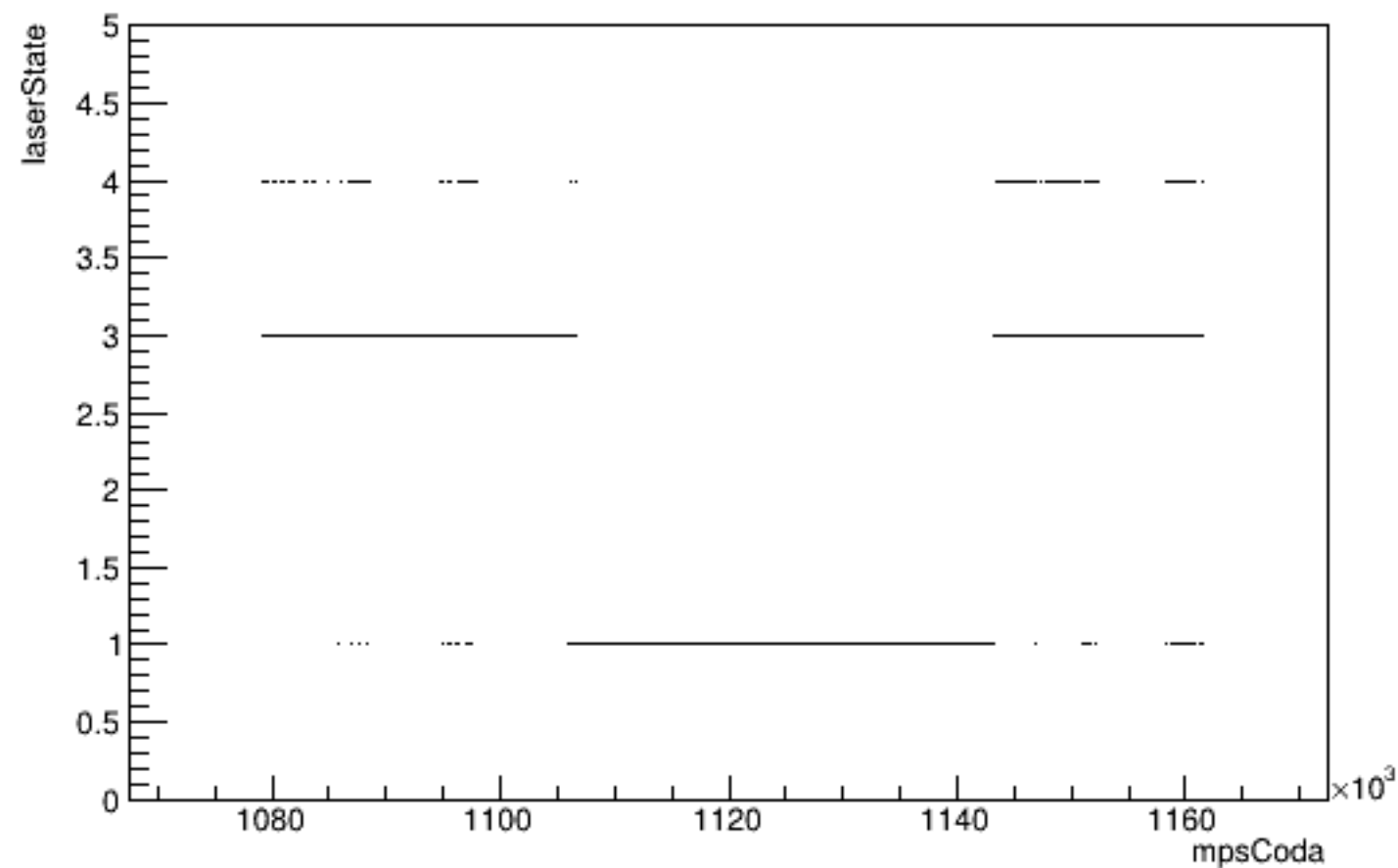
Run 4460 quartetwise, Asyms



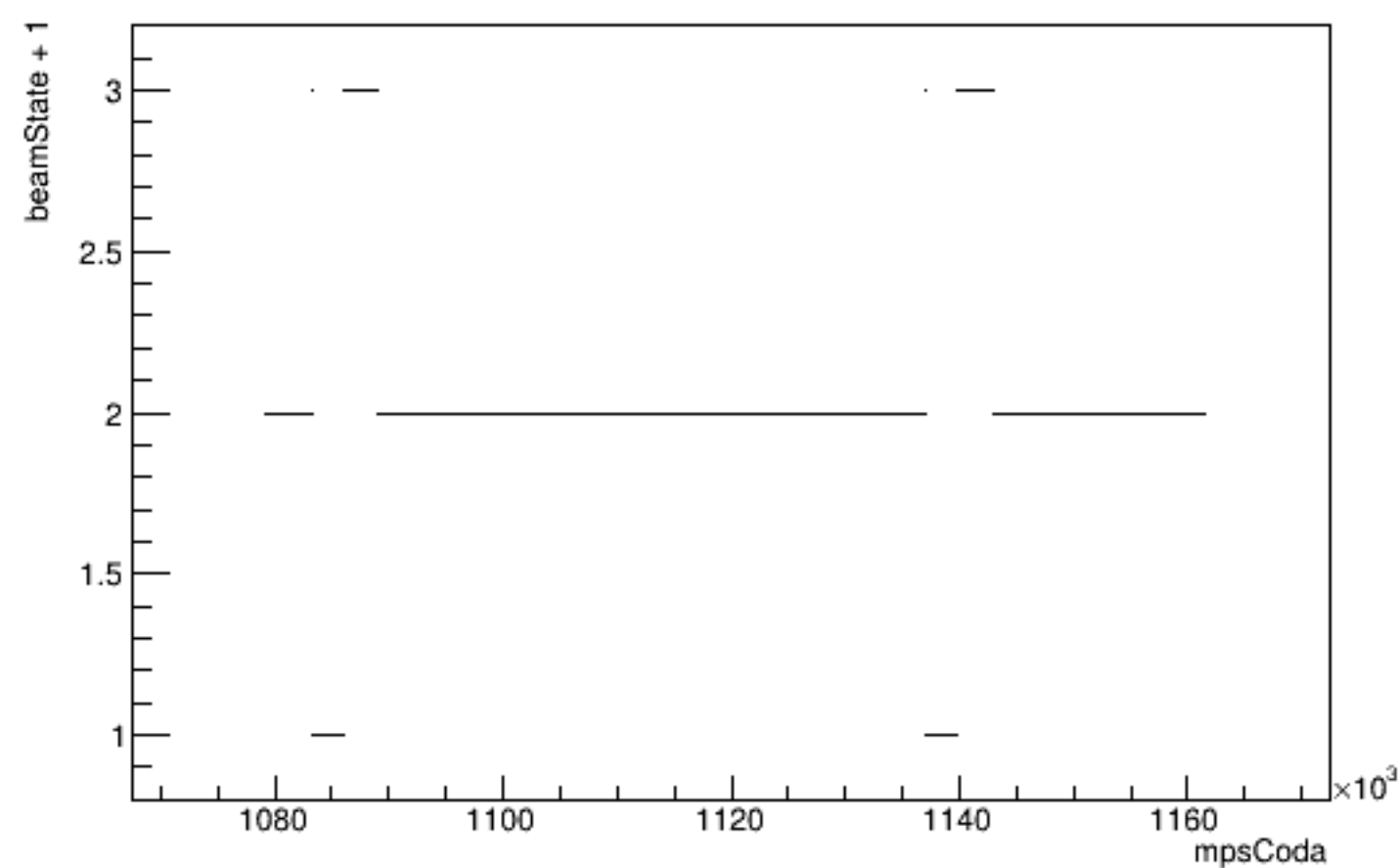
Acc0/NAcc0:mpsCoda (mpsCoda>=1079244 && mpsCoda<=1161483 && beamState==1)



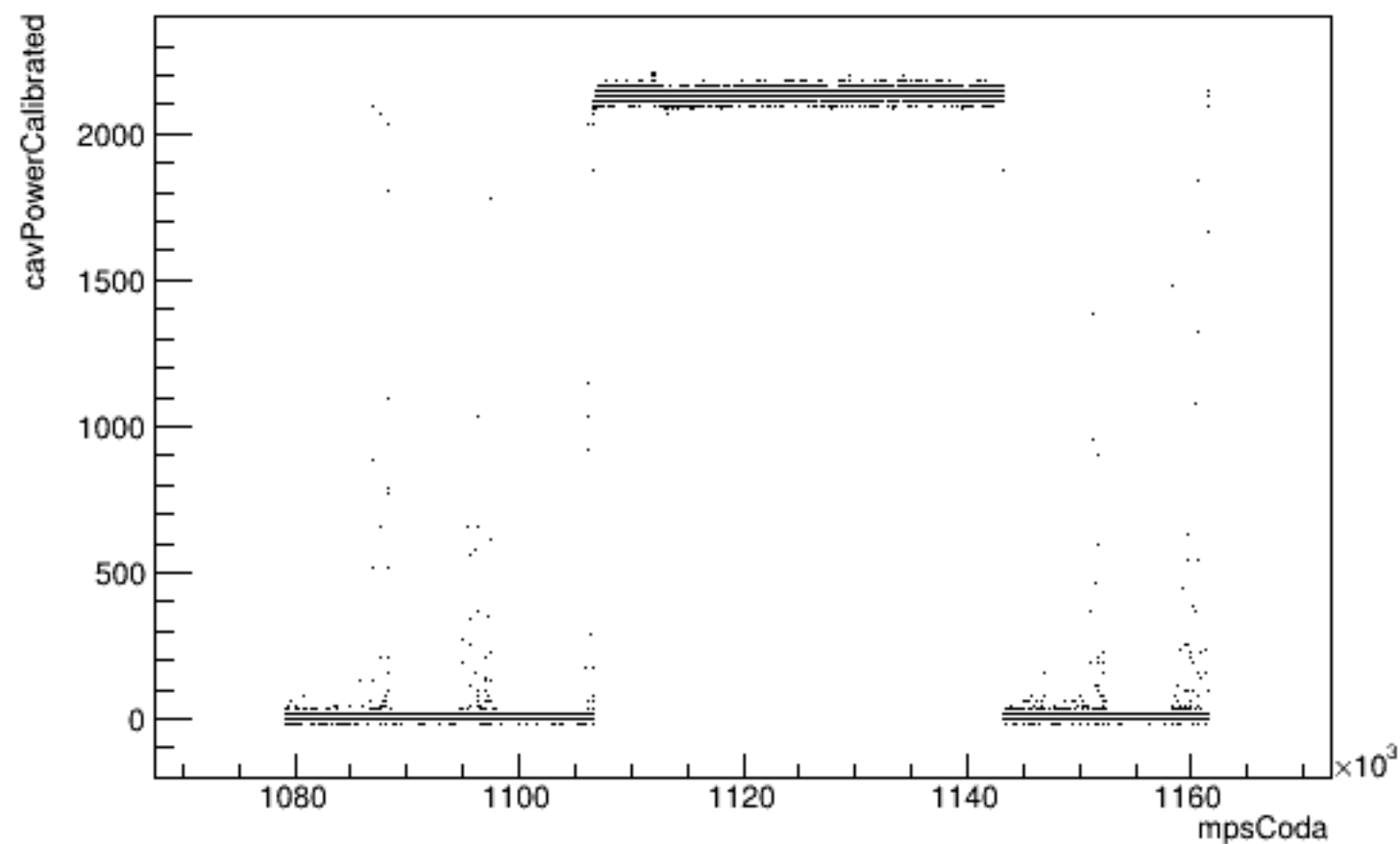
laserState:mpsCoda {mpsCoda&gt;=1079244 &amp;&amp; mpsCoda&lt;=1161483}



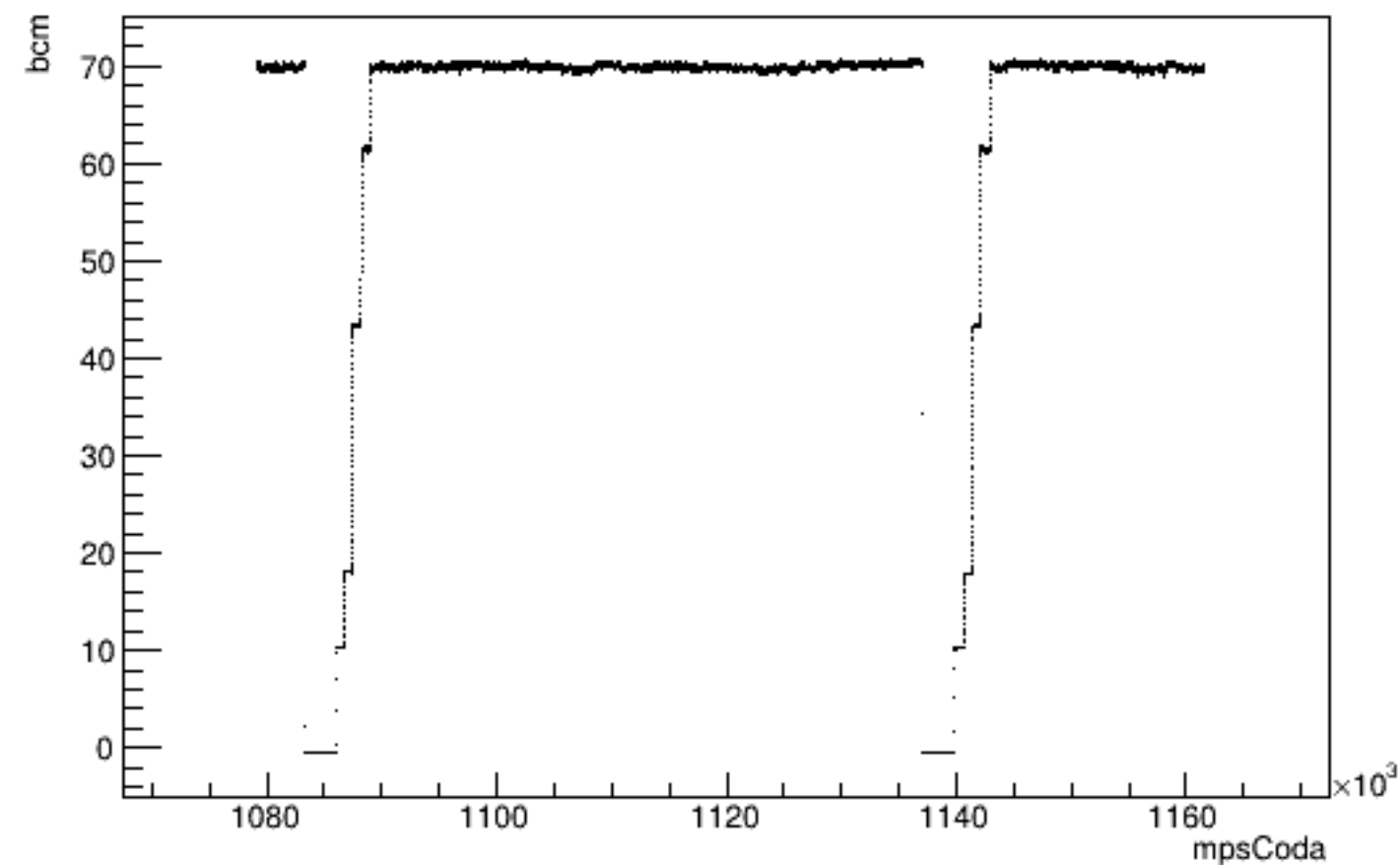
beamState + 1:mpsCoda {mpsCoda&gt;=1079244 &amp;&amp; mpsCoda&lt;=1161483}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1079244 &amp;&amp; mpsCoda&lt;=1161483}



bcm:mpsCoda {mpsCoda&gt;=1079244 &amp;&amp; mpsCoda&lt;=1161483}



## Cycle 19, Diffs

Entries: 2144

Mean: 0.0304 +/- 0.0074

Std Dev: 0.3404 +/- 0.0052

Entries: 4645

Mean: -0.0379 +/- 0.0058

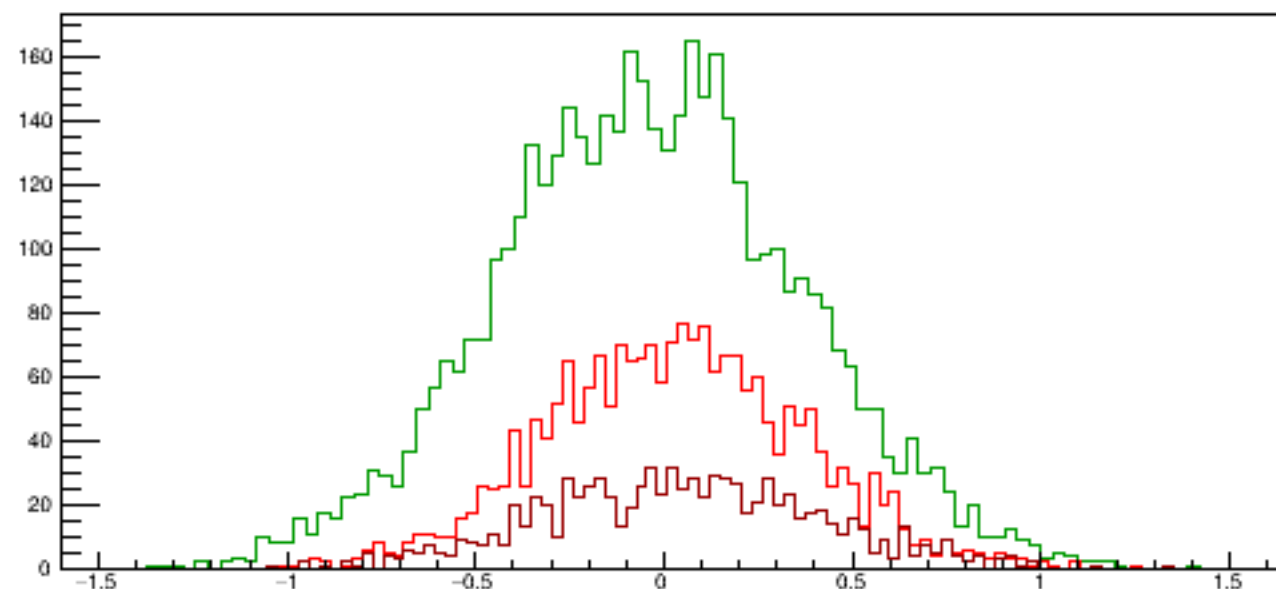
Std Dev: 0.3984 +/- 0.0041

Entries: 893

Mean: 0.0439 +/- 0.0123

Std Dev: 0.3683 +/- 0.0087

Run 4460 quartetwise, Diffs



## Cycle 19, Sums

Entries: 2144

Mean: 16.8134 +/- 0.0190

Std Dev: 0.8821 +/- 0.0135

Entries: 4645

Mean: 22.8812 +/- 0.0073

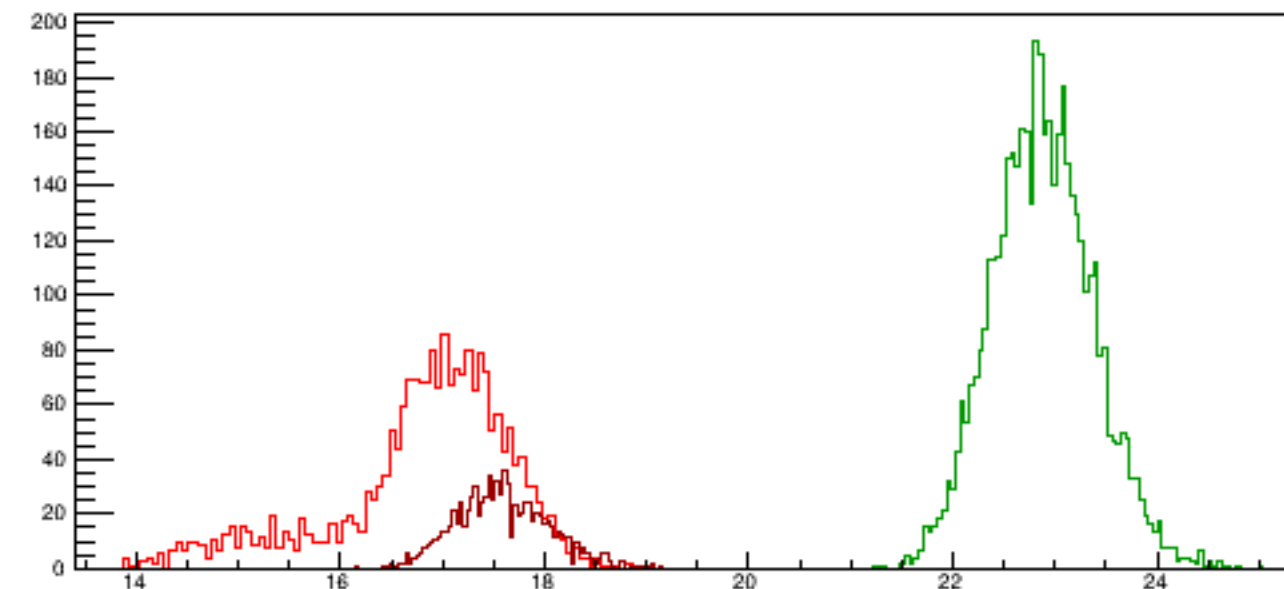
Std Dev: 0.4968 +/- 0.0052

Entries: 893

Mean: 17.5927 +/- 0.0158

Std Dev: 0.4714 +/- 0.0112

Run 4460 quartetwise, Sums



## Cycle 19, Asyms

Entries: 2144

Mean: 0.0054 +/- 0.0013

Std Dev: 0.0599 +/- 0.0009

Entries: 4645

Mean: -0.0067 +/- 0.0010

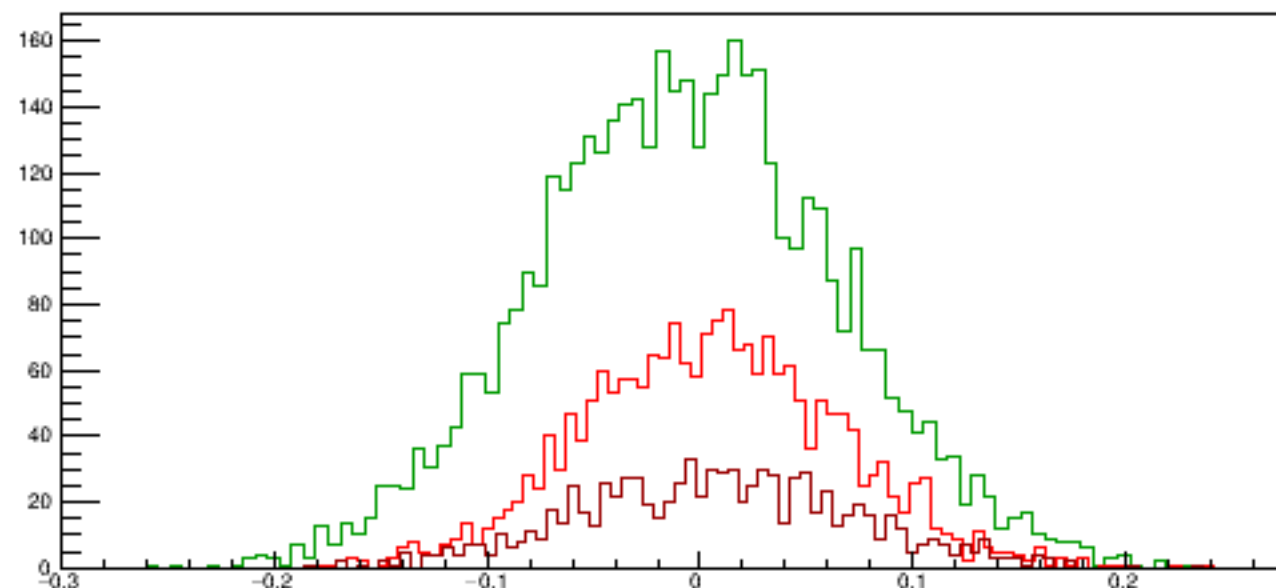
Std Dev: 0.0704 +/- 0.0007

Entries: 893

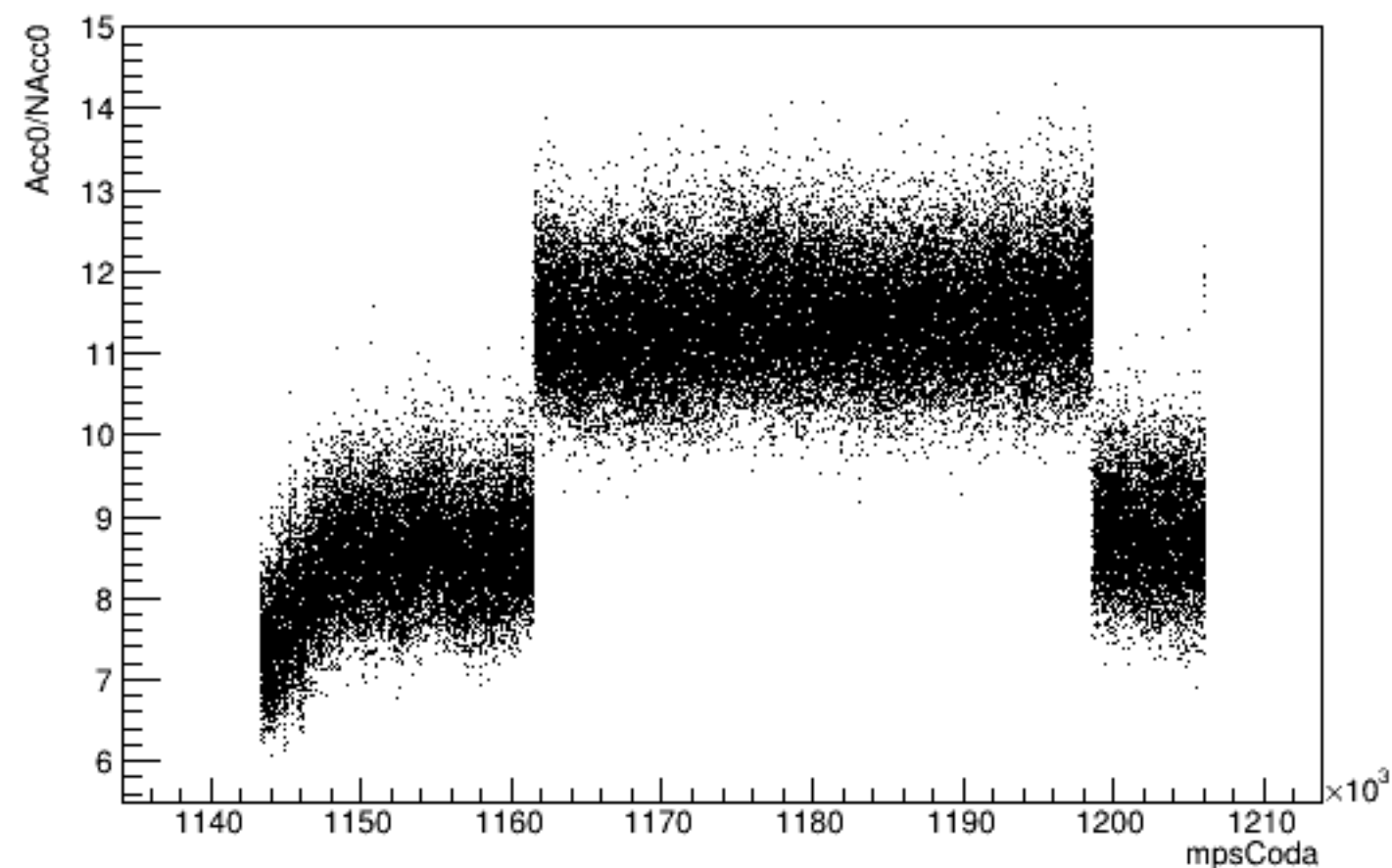
Mean: 0.0077 +/- 0.0022

Std Dev: 0.0649 +/- 0.0015

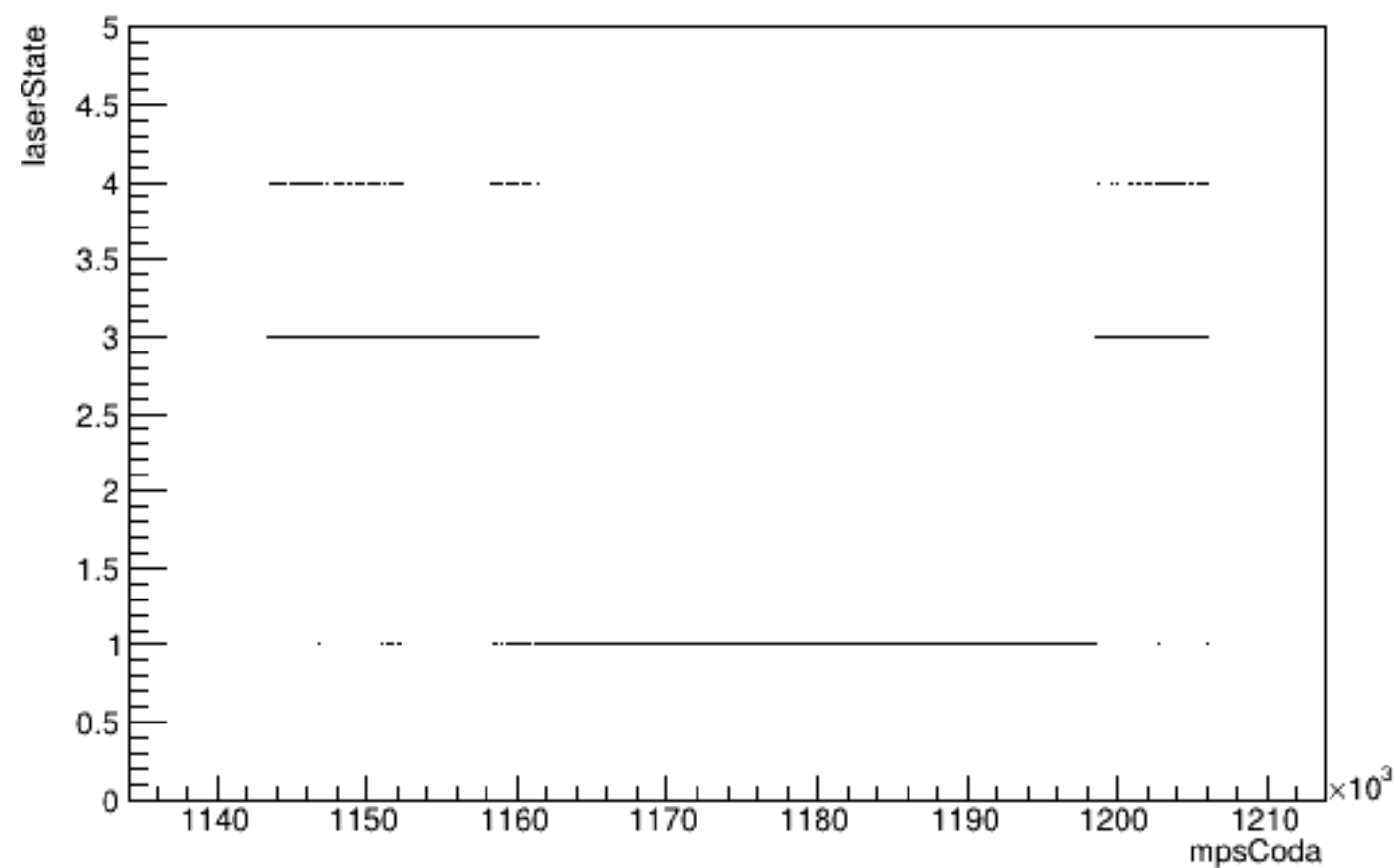
Run 4460 quartetwise, Asyms



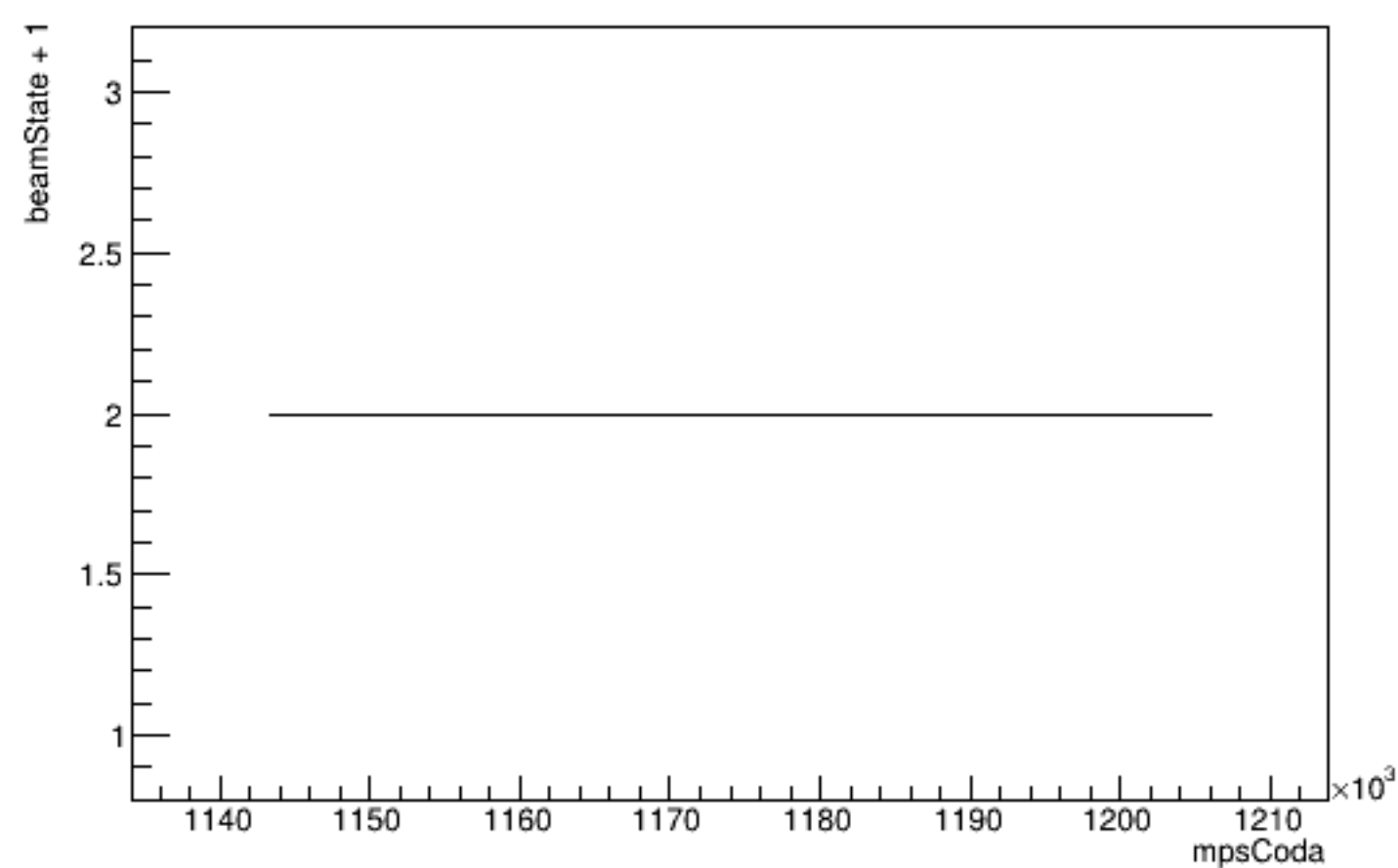
Acc0/NAcc0:mpsCoda (mpsCoda>=1143308 && mpsCoda<=1206115 && beamState==1)



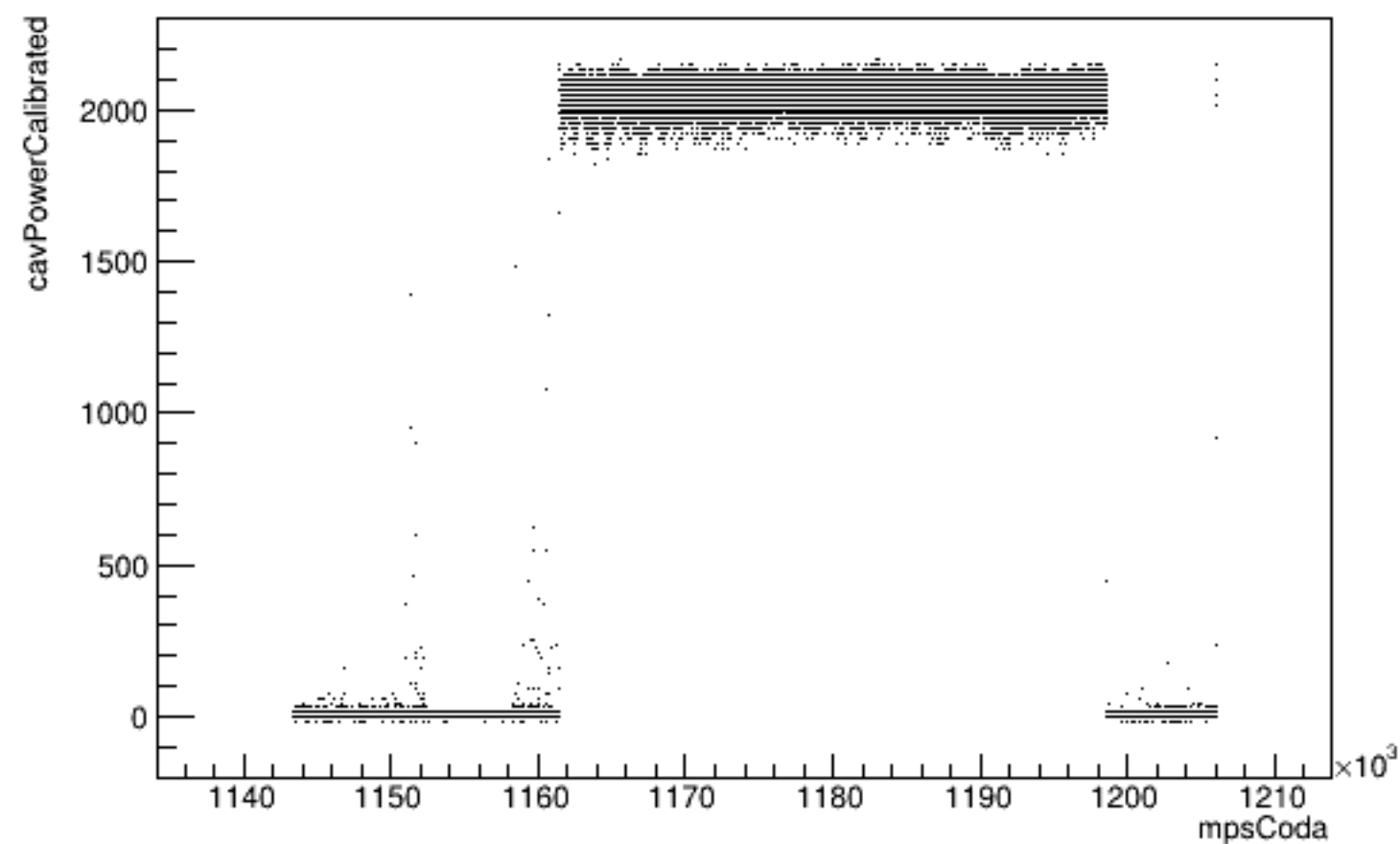
laserState:mpsCoda {mpsCoda&gt;=1143308 &amp;&amp; mpsCoda&lt;=1206115}



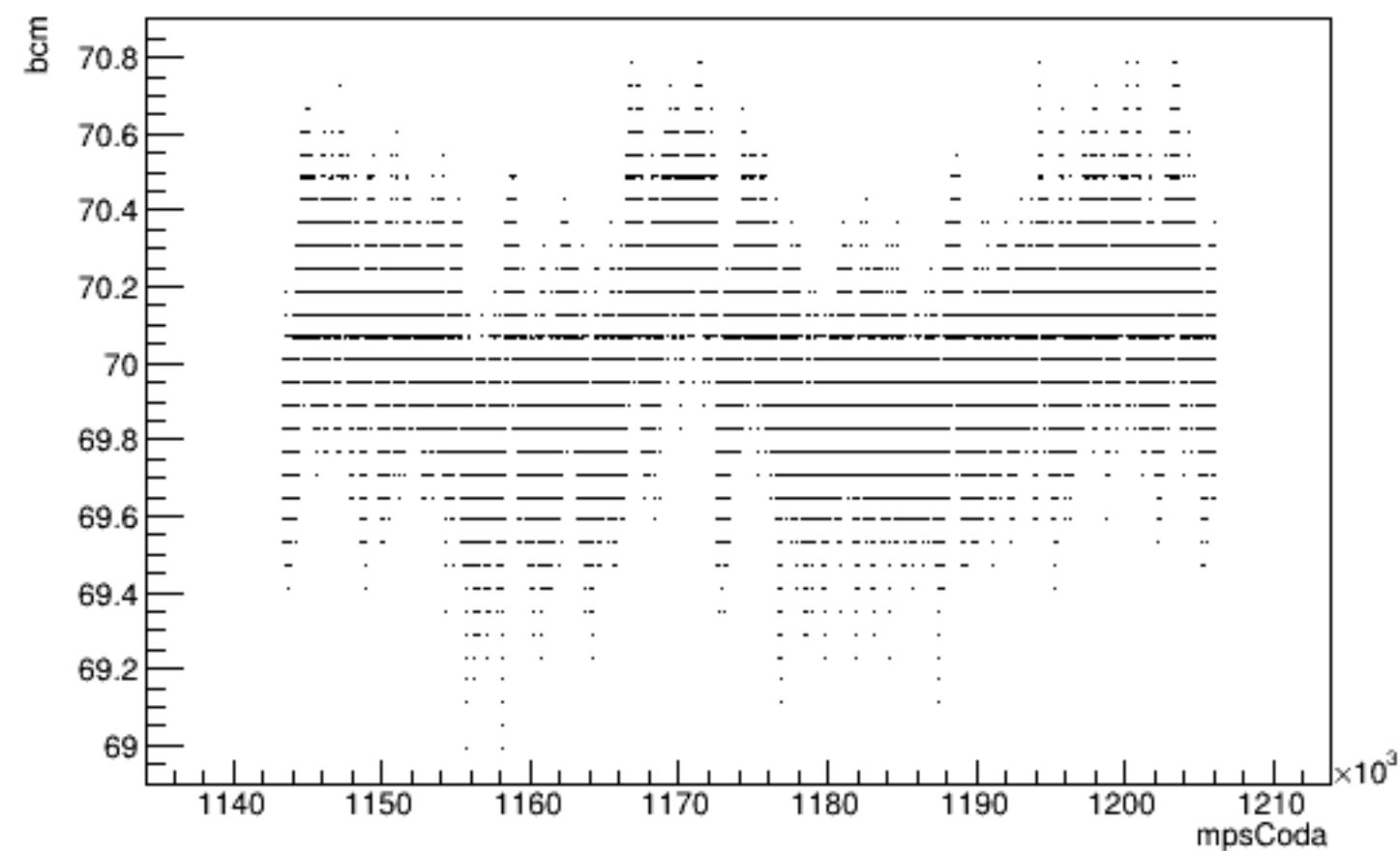
beamState + 1:mpsCoda {mpsCoda&gt;=1143308 &amp;&amp; mpsCoda&lt;=1206115}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1143308 &amp;&amp; mpsCoda&lt;=1206115}



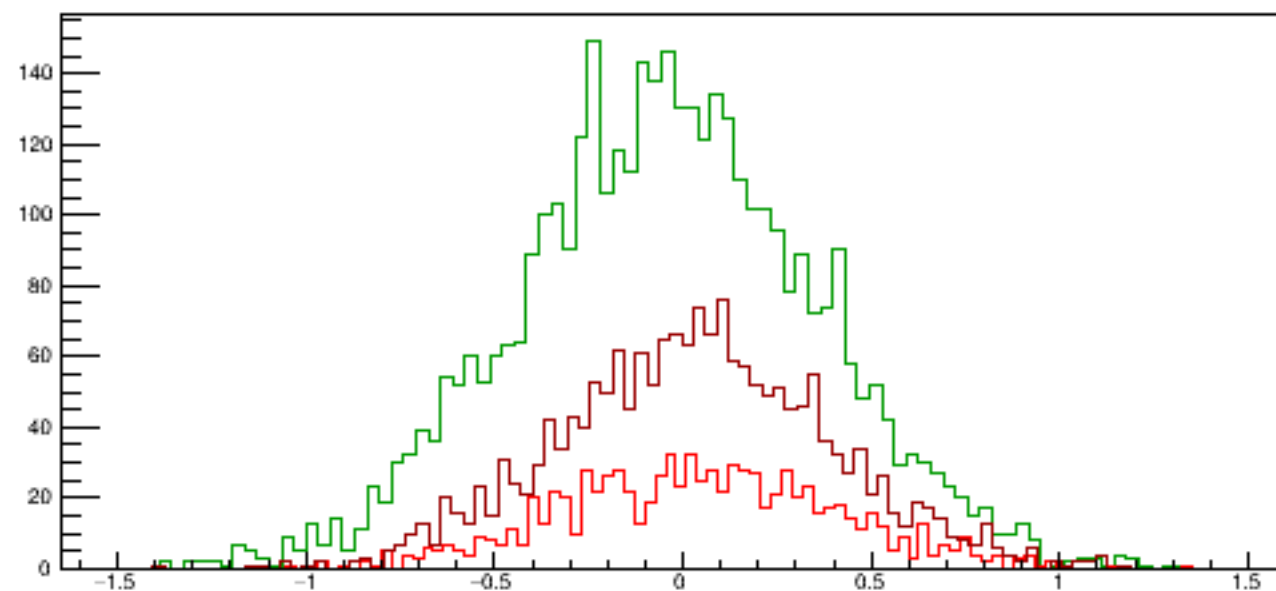
bcm:mpsCoda {mpsCoda&gt;=1143308 &amp;&amp; mpsCoda&lt;=1206115}



## Cycle 20, Diffs

| Entries: 893               | Entries: 3999              | Entries: 1874              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0439 +/- 0.0123    | Mean: -0.0447 +/- 0.0063   | Mean: 0.0310 +/- 0.0084    |
| Std Dev: 0.3683 +/- 0.0087 | Std Dev: 0.3993 +/- 0.0045 | Std Dev: 0.3633 +/- 0.0059 |

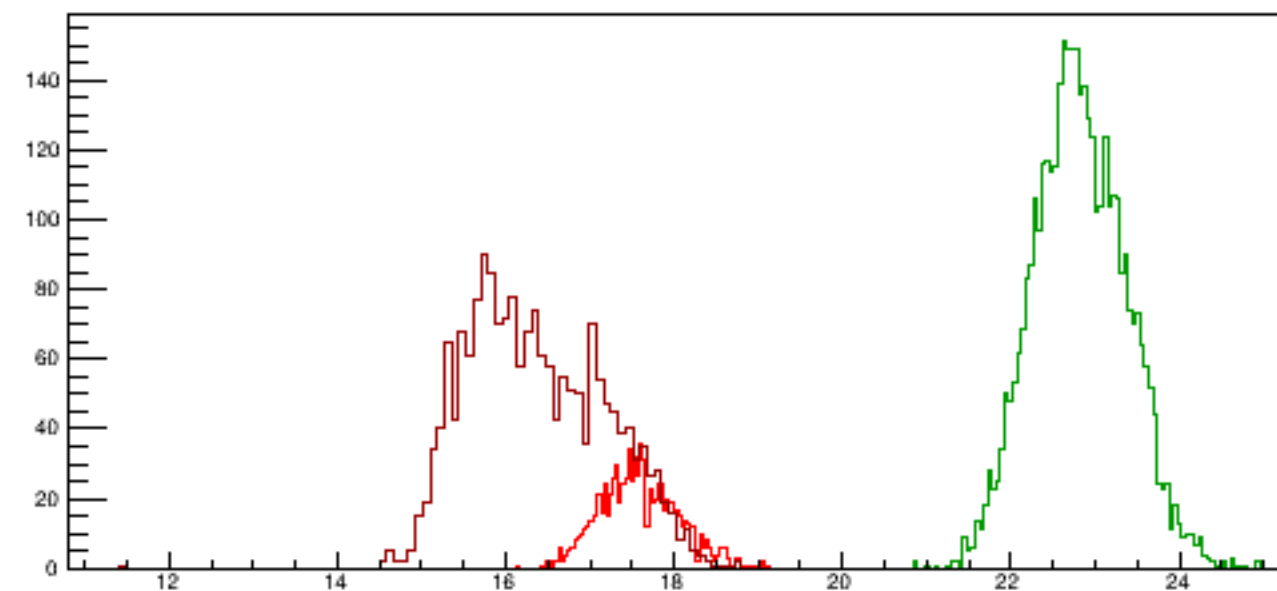
Run 4460 quartetwise, Diffs



## Cycle 20, Sums

| Entries: 893               | Entries: 3999              | Entries: 1874              |
|----------------------------|----------------------------|----------------------------|
| Mean: 17.5927 +/- 0.0158   | Mean: 22.8141 +/- 0.0087   | Mean: 16.3665 +/- 0.0189   |
| Std Dev: 0.4714 +/- 0.0112 | Std Dev: 0.5507 +/- 0.0062 | Std Dev: 0.8161 +/- 0.0133 |

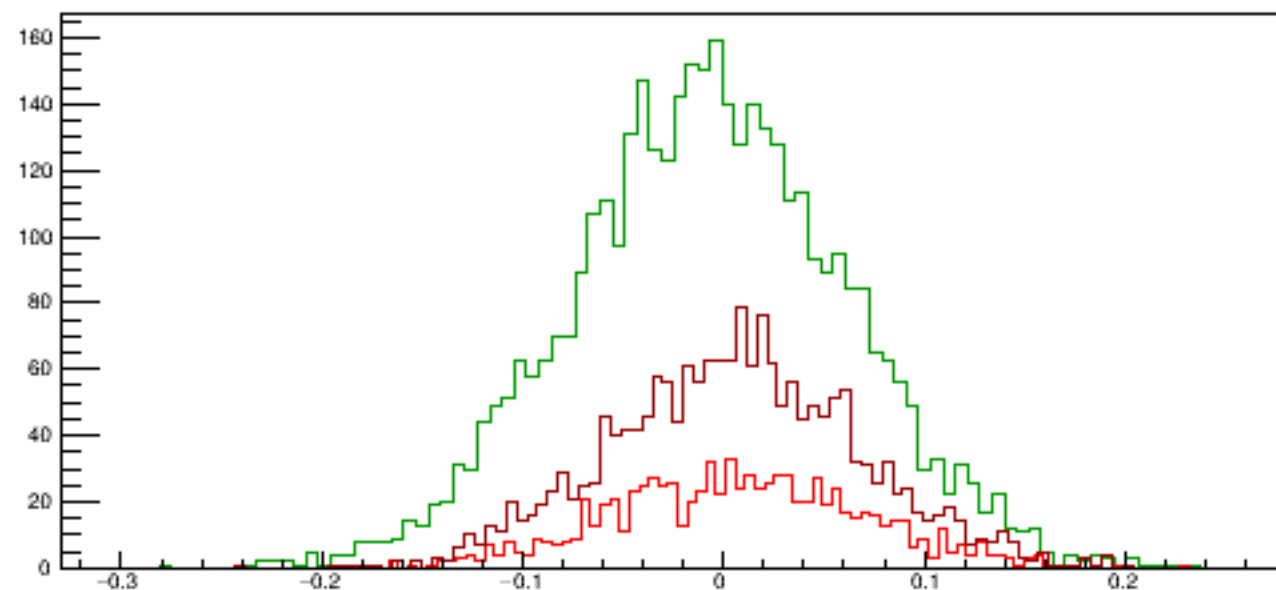
Run 4460 quartetwise, Sums



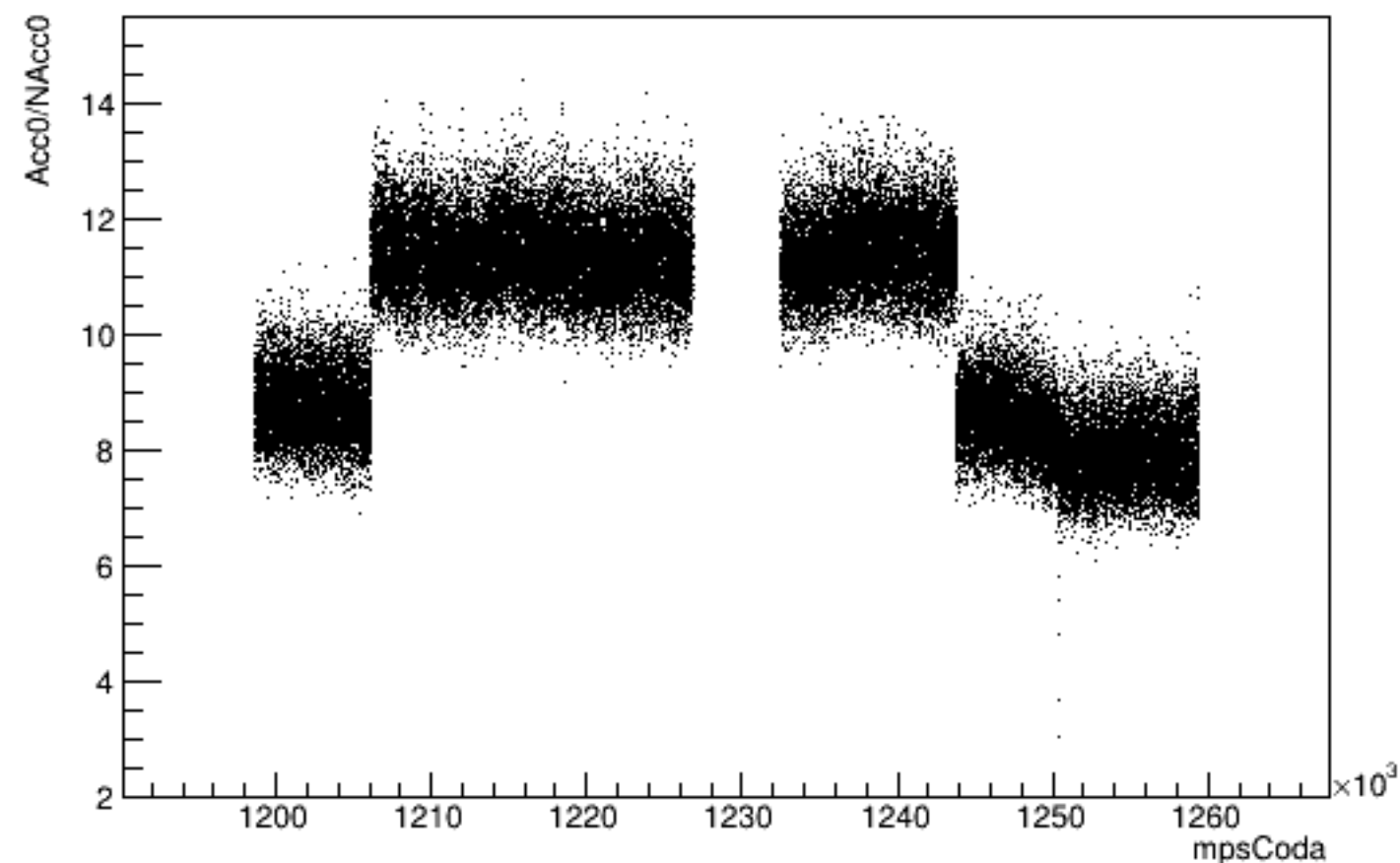
## Cycle 20, Asyms

| Entries: 893               | Entries: 3999              | Entries: 1874              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0075 +/- 0.0021    | Mean: -0.0077 +/- 0.0011   | Mean: 0.0053 +/- 0.0014    |
| Std Dev: 0.0631 +/- 0.0015 | Std Dev: 0.0686 +/- 0.0008 | Std Dev: 0.0623 +/- 0.0010 |

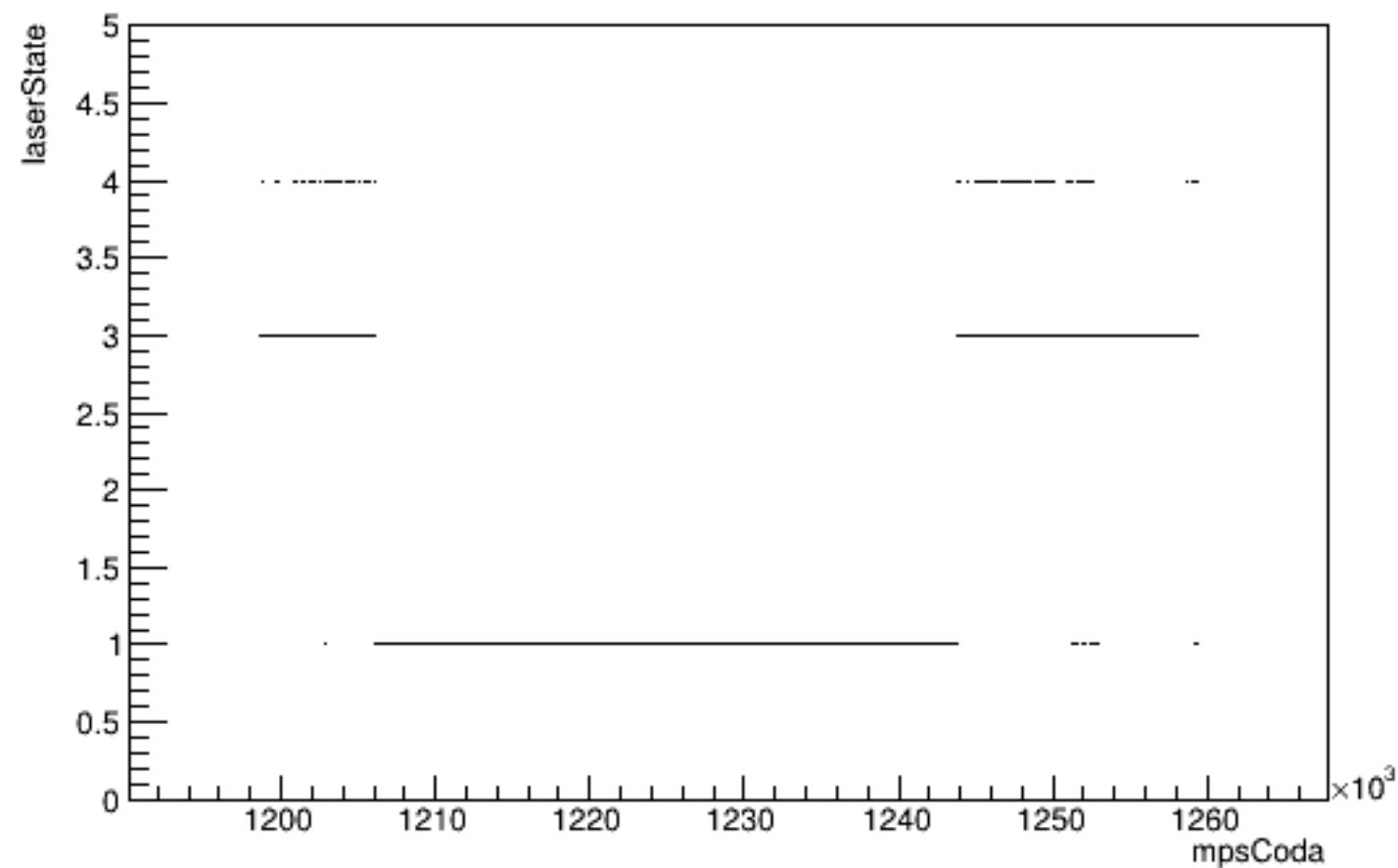
Run 4460 quartetwise, Asyms



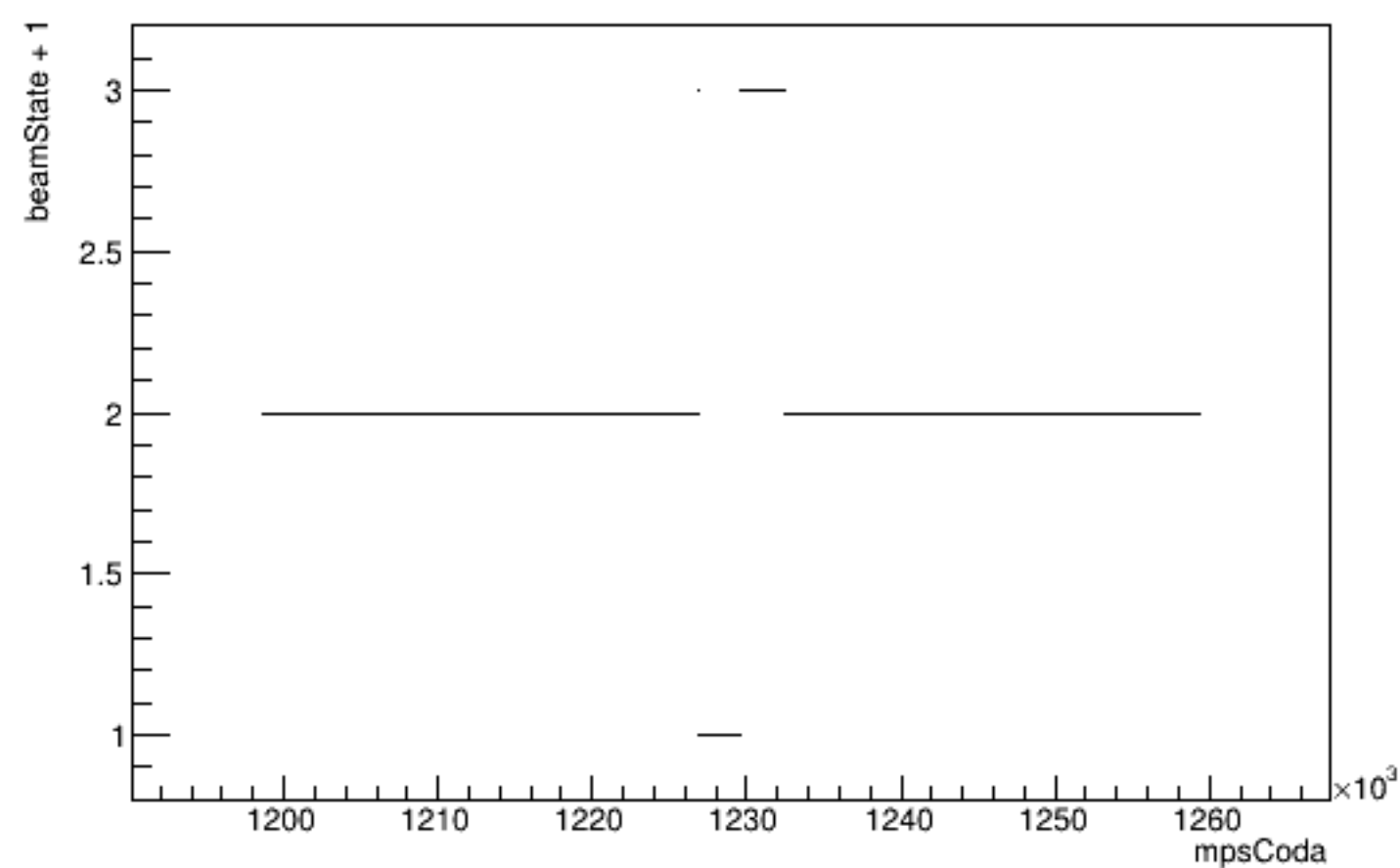
Acc0/NAcc0:mpsCoda (mpsCoda>=1198644 && mpsCoda<=1259427 && beamState==1)



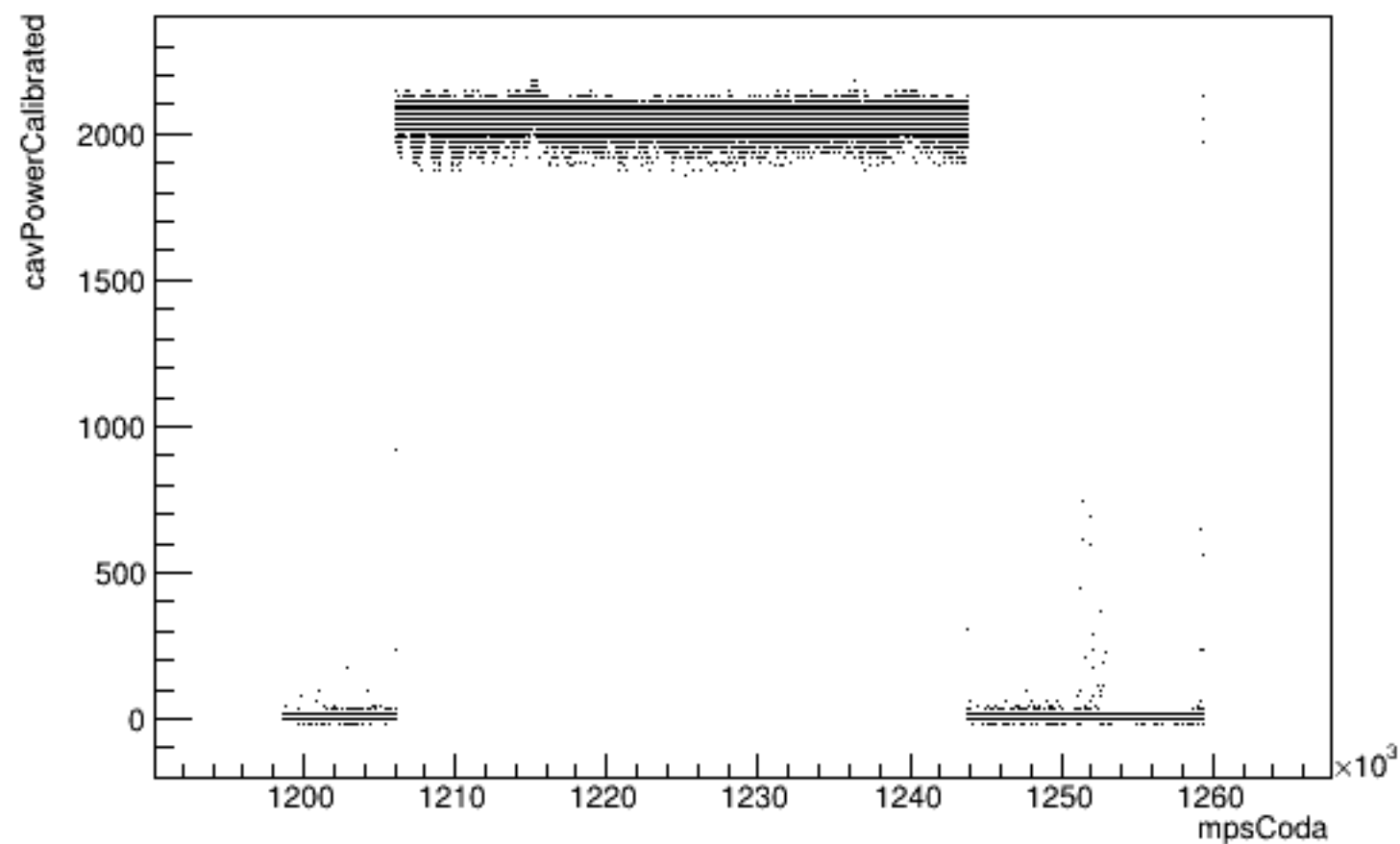
laserState:mpsCoda {mpsCoda&gt;=1198644 &amp;&amp; mpsCoda&lt;=1259427}



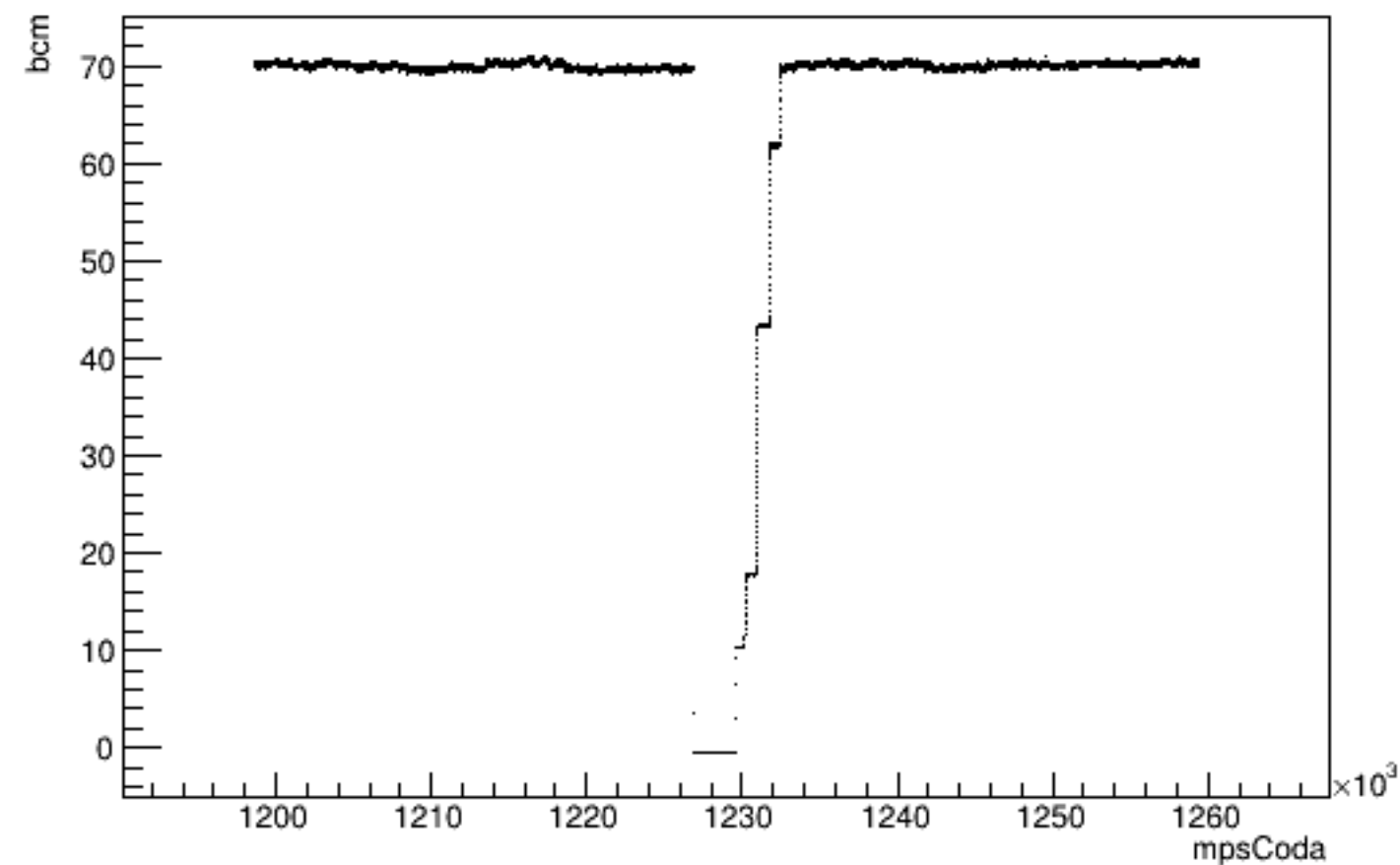
beamState + 1:mpsCoda {mpsCoda&gt;=1198644 &amp;&amp; mpsCoda&lt;=1259427}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1198644 &amp;&amp; mpsCoda&lt;=1259427}



bcm:mpsCoda {mpsCoda&gt;=1198644 &amp;&amp; mpsCoda&lt;=1259427}



## Cycle 21, Diffs

Entries: 1874

Mean: 0.0310 +/- 0.0084

Std Dev: 0.3633 +/- 0.0059

Entries: 4604

Mean: -0.0616 +/- 0.0059

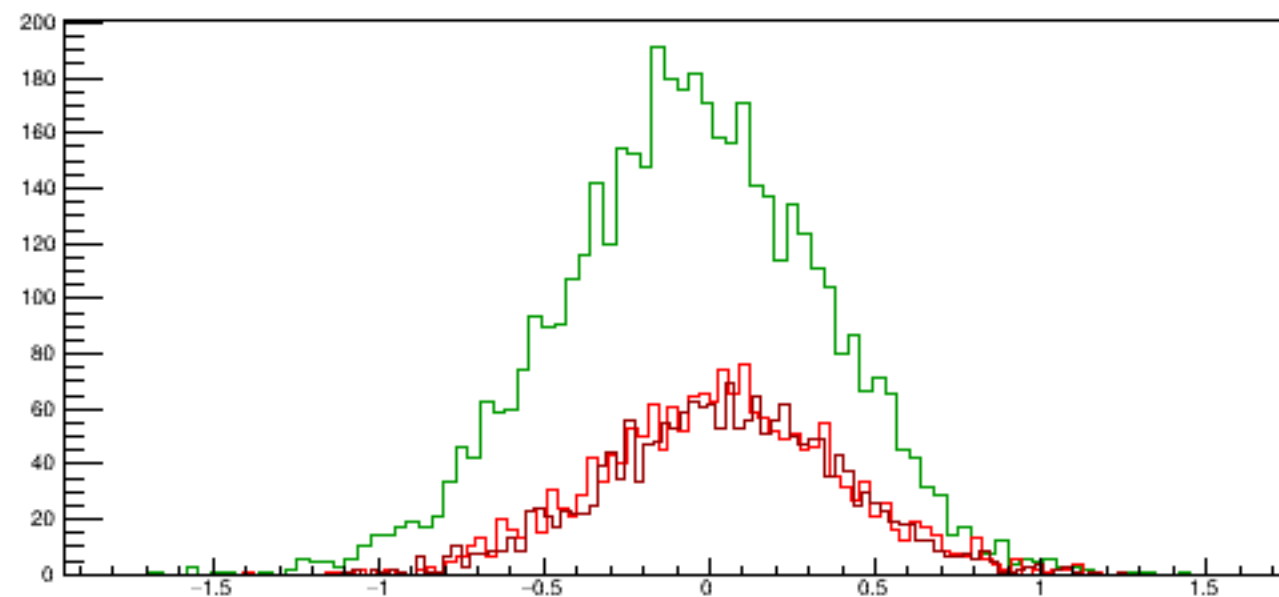
Std Dev: 0.3994 +/- 0.0042

Entries: 1957

Mean: 0.0412 +/- 0.0081

Std Dev: 0.3589 +/- 0.0057

Run 4460 quartetwise, Diffs



## Cycle 21, Sums

Entries: 1874

Mean: 16.3665 +/- 0.0189

Std Dev: 0.8161 +/- 0.0133

Entries: 4604

Mean: 22.6143 +/- 0.0123

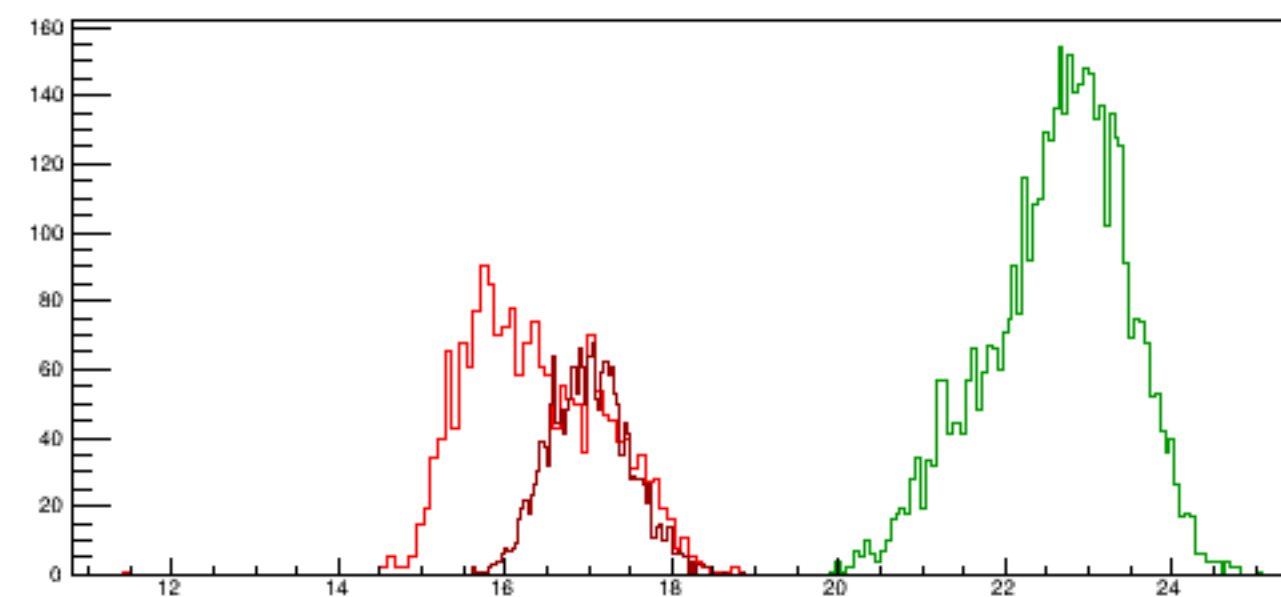
Std Dev: 0.8367 +/- 0.0087

Entries: 1957

Mean: 17.0148 +/- 0.0110

Std Dev: 0.4865 +/- 0.0078

Run 4460 quartetwise, Sums



## Cycle 21, Asyms

Entries: 1874

Mean: 0.0052 +/- 0.0014

Std Dev: 0.0613 +/- 0.0010

Entries: 4604

Mean: -0.0107 +/- 0.0010

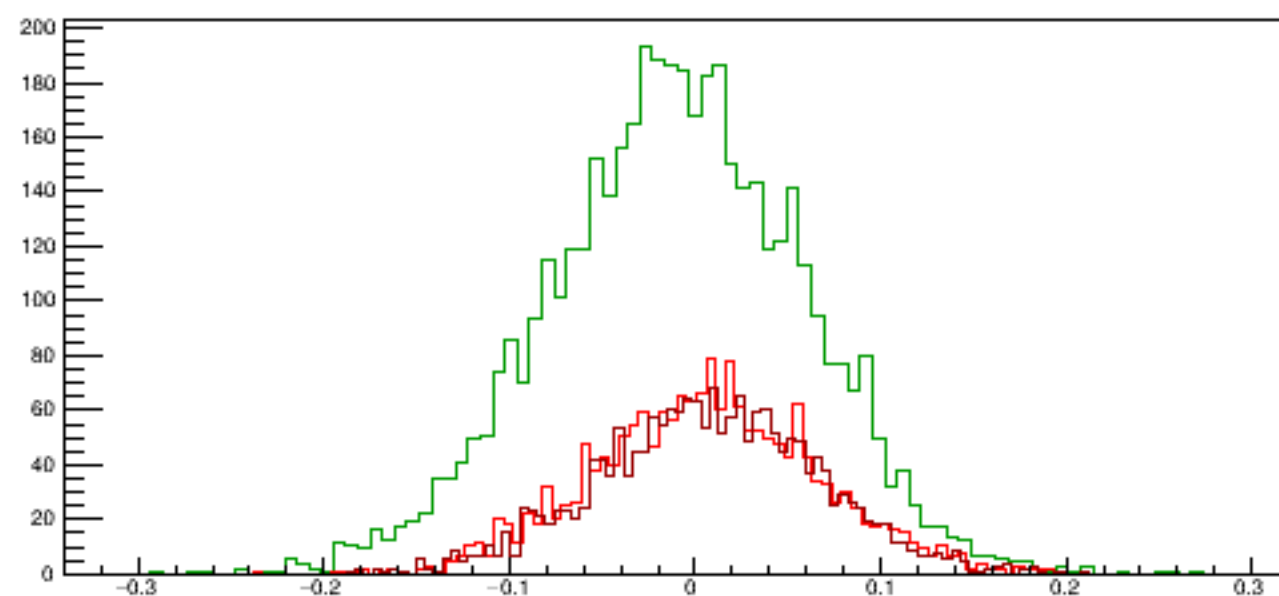
Std Dev: 0.0690 +/- 0.0007

Entries: 1957

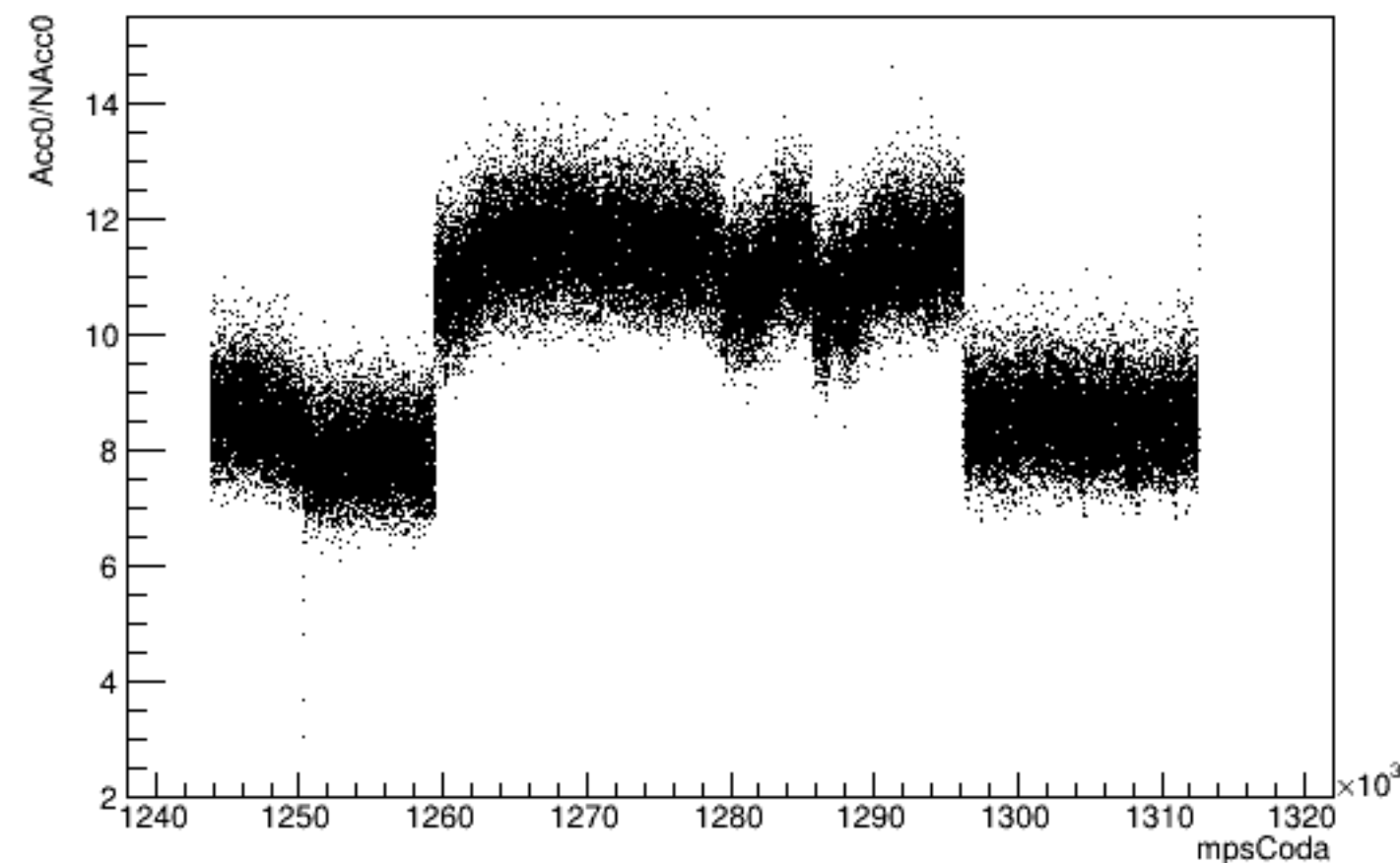
Mean: 0.0070 +/- 0.0014

Std Dev: 0.0606 +/- 0.0010

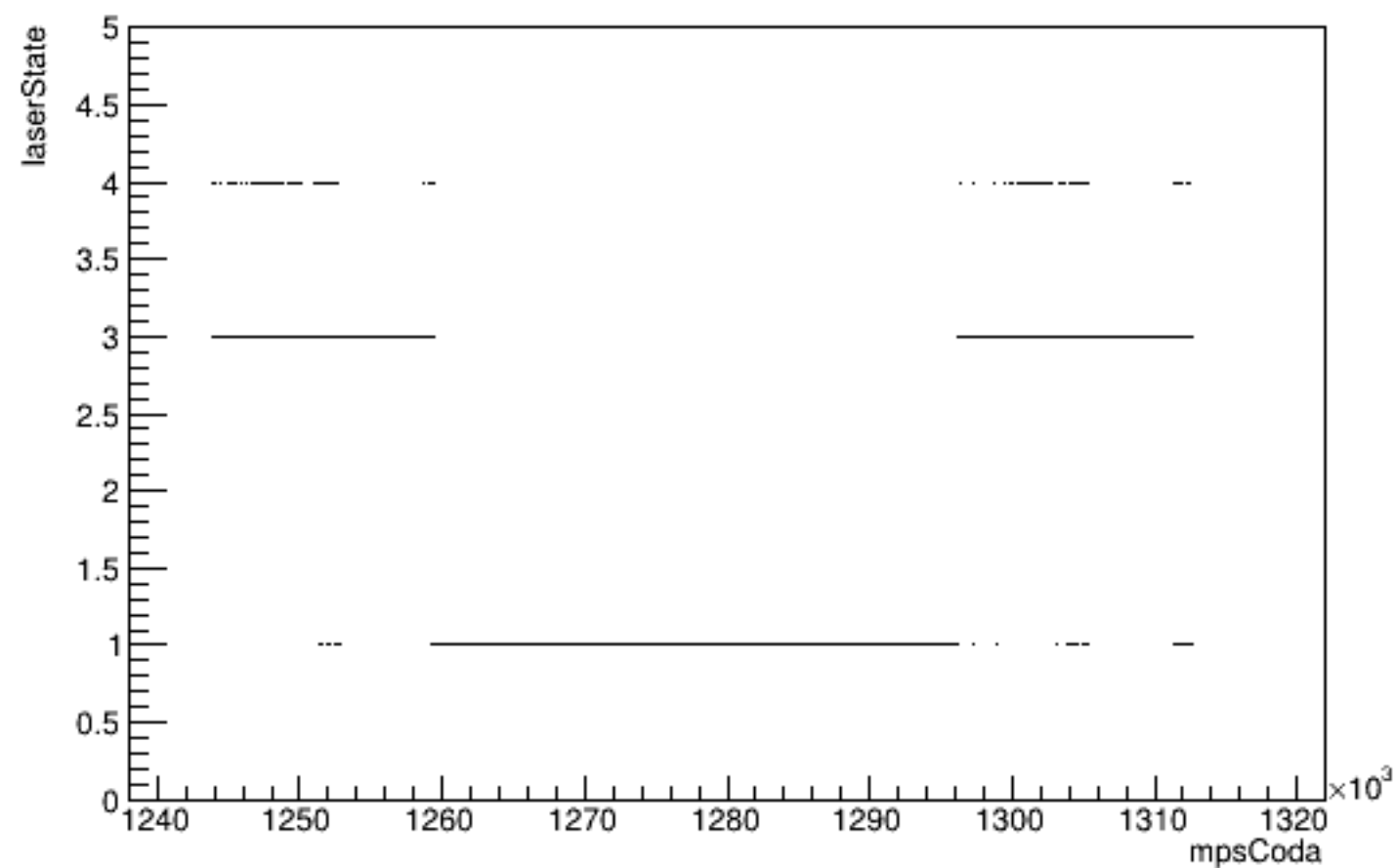
Run 4460 quartetwise, Asyms



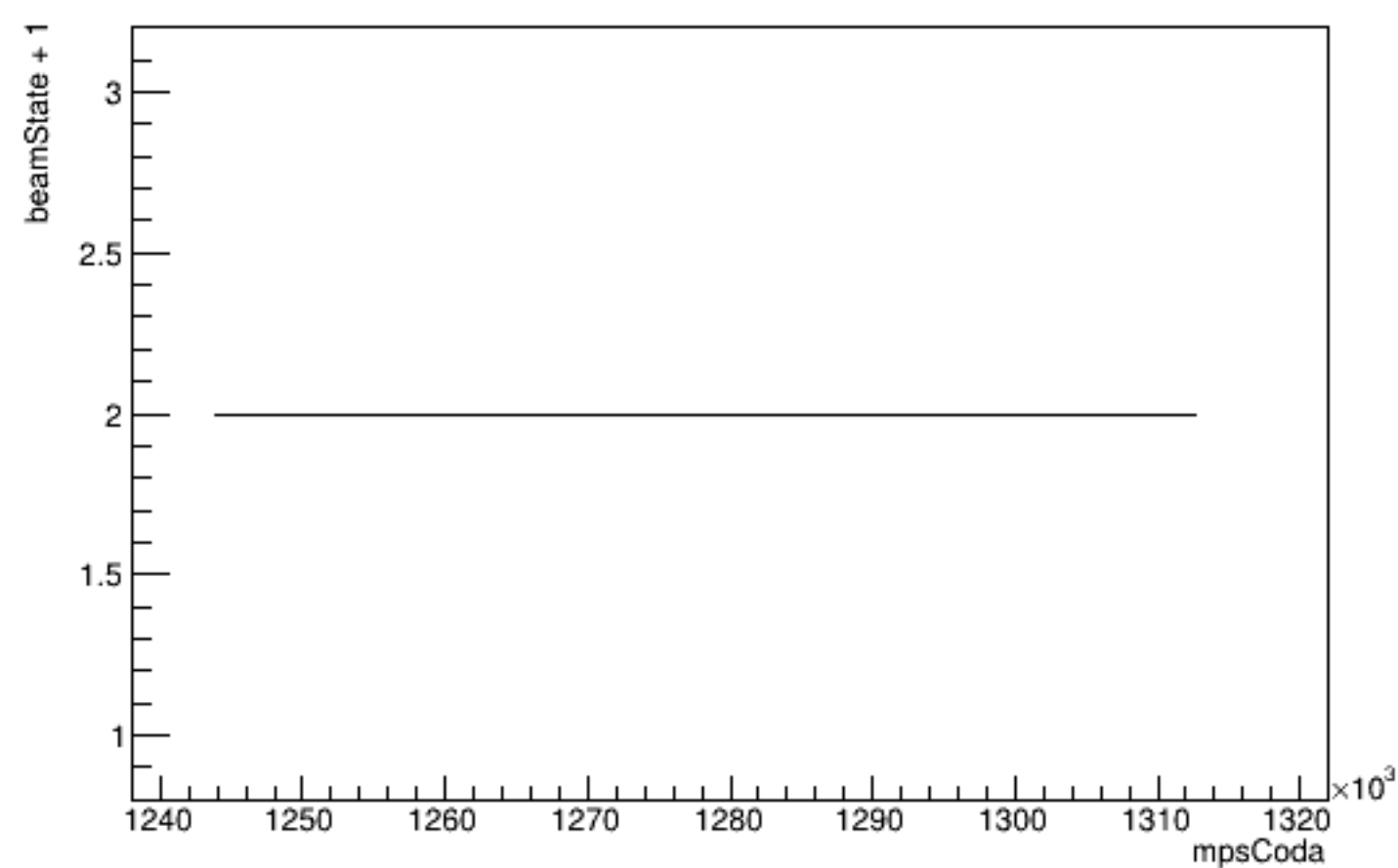
Acc0/NAcc0:mpsCoda (mpsCoda>=1243804 && mpsCoda<=1312563 && beamState==1)



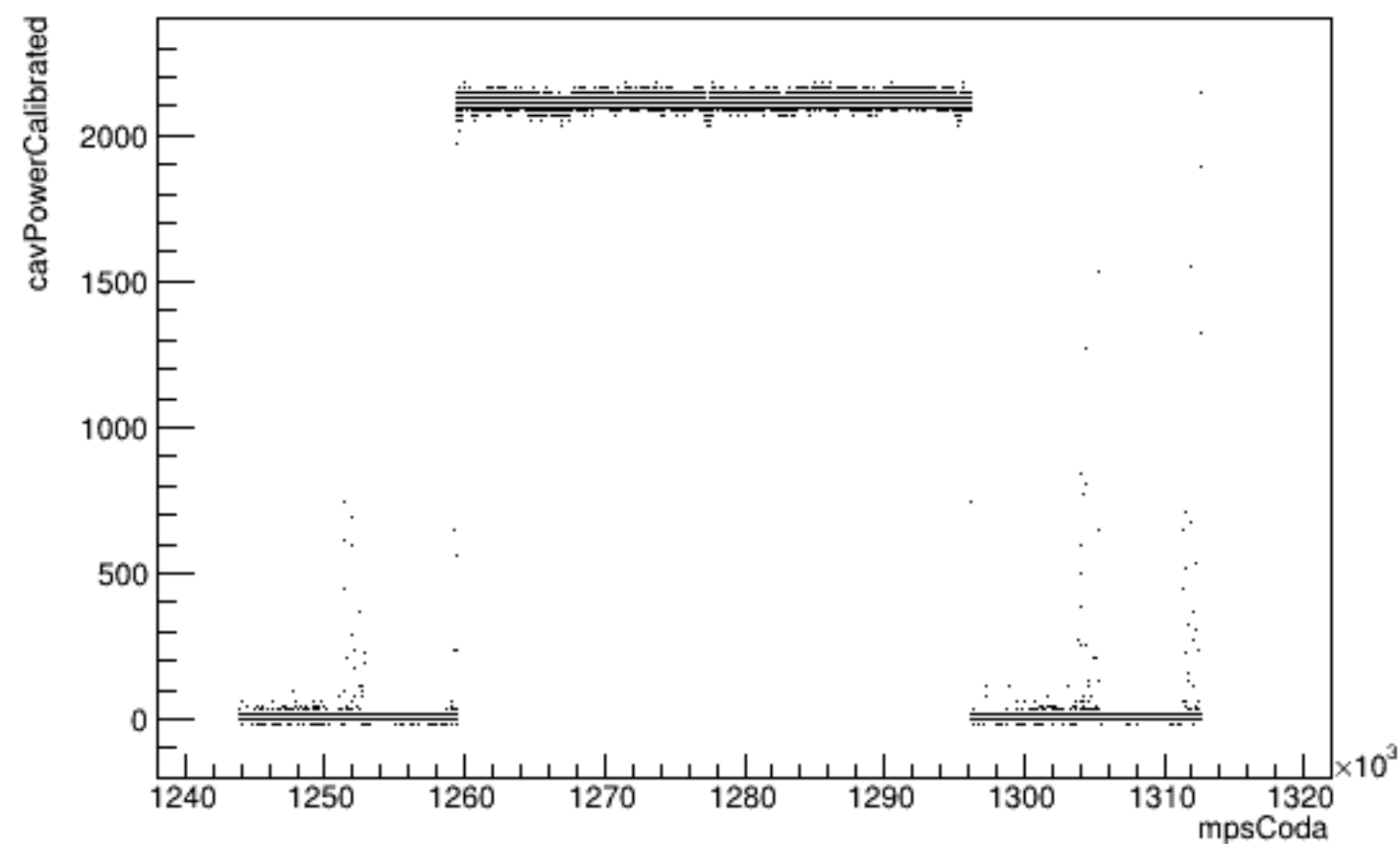
laserState:mpsCoda {mpsCoda&gt;=1243804 &amp;&amp; mpsCoda&lt;=1312563}



beamState + 1:mpsCoda {mpsCoda&gt;=1243804 &amp;&amp; mpsCoda&lt;=1312563}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1243804 &amp;&amp; mpsCoda&lt;=1312563}



bcm:mpsCoda {mpsCoda&gt;=1243804 &amp;&amp; mpsCoda&lt;=1312563}

