

## Cycle 1, Diffs

Entries: 775

Mean: 0.0177 +/- 0.0095

Std Dev: 0.2644 +/- 0.0067

Entries: 3743

Mean: -0.0668 +/- 0.0051

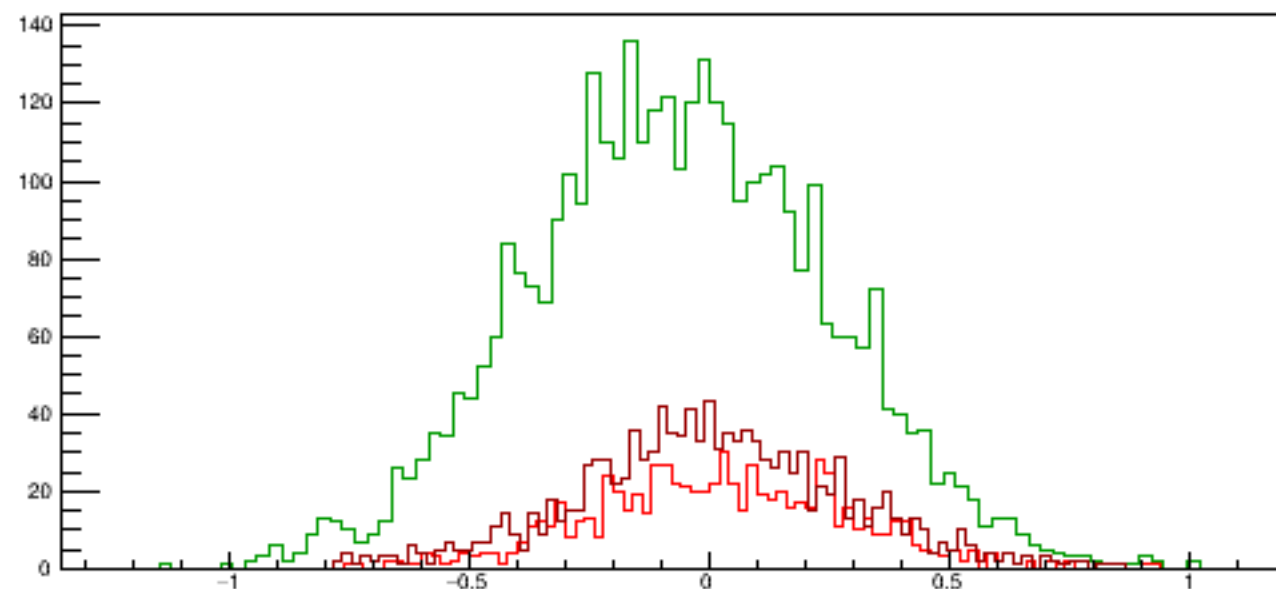
Std Dev: 0.3103 +/- 0.0036

Entries: 1213

Mean: 0.0008 +/- 0.0080

Std Dev: 0.2796 +/- 0.0057

Run 4401 quartetwise, Diffs



## Cycle 1, Sums

Entries: 775

Mean: 13.9356 +/- 0.0182

Std Dev: 0.5071 +/- 0.0129

Entries: 3743

Mean: 19.3126 +/- 0.0089

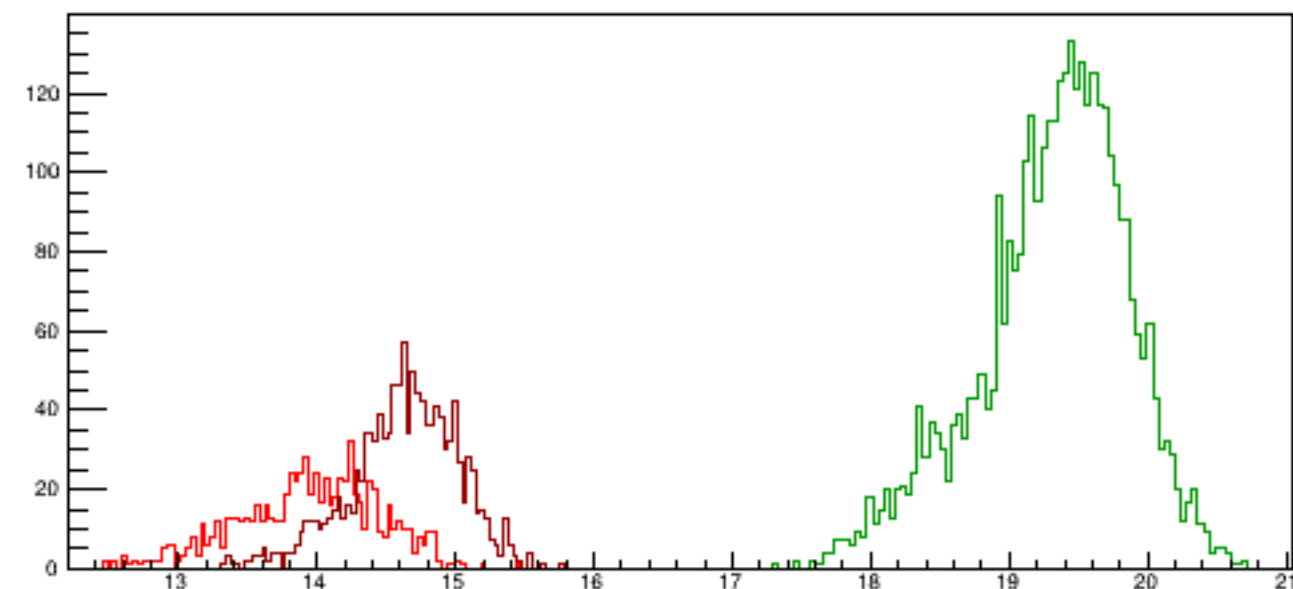
Std Dev: 0.5432 +/- 0.0063

Entries: 1213

Mean: 14.6257 +/- 0.0113

Std Dev: 0.3926 +/- 0.0080

Run 4401 quartetwise, Sums



## Cycle 1, Asyms

Entries: 775

Mean: 0.0035 +/- 0.0019

Std Dev: 0.0526 +/- 0.0013

Entries: 3743

Mean: -0.0135 +/- 0.0010

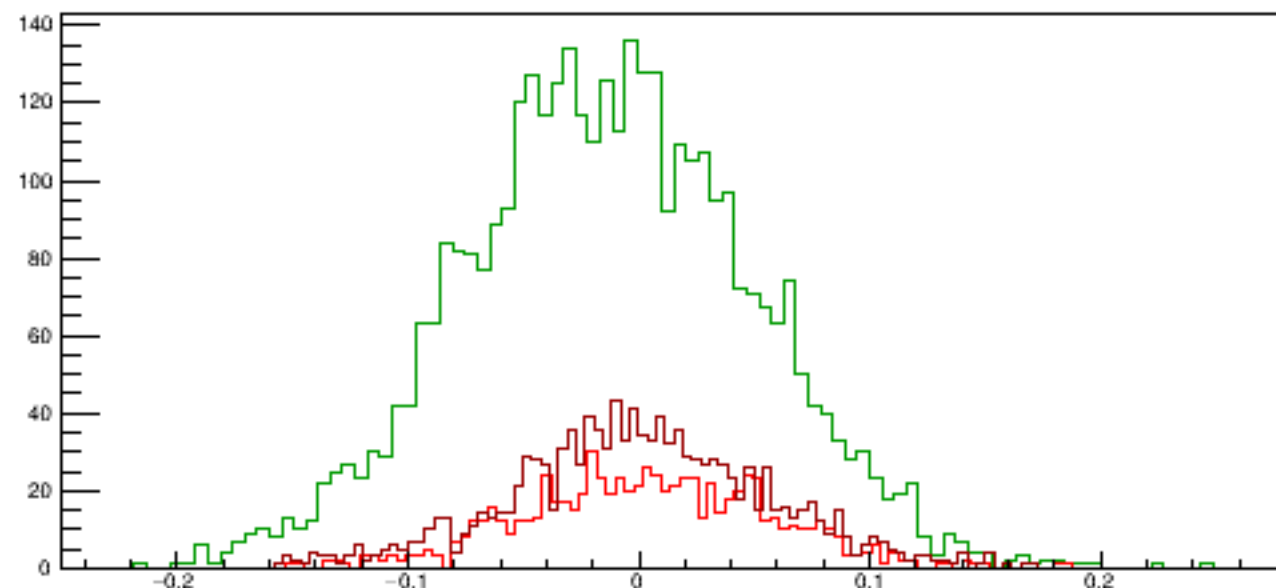
Std Dev: 0.0624 +/- 0.0007

Entries: 1213

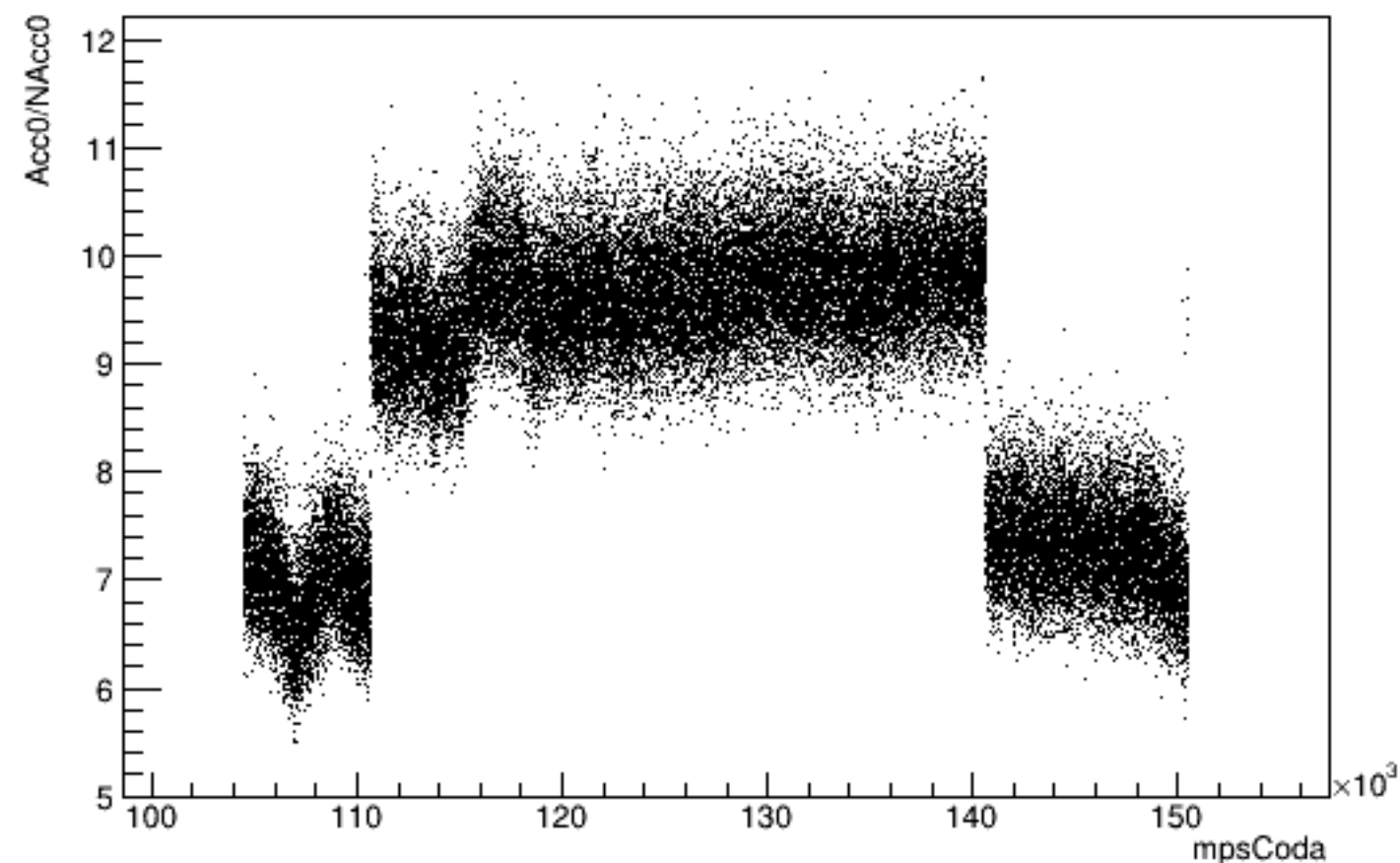
Mean: 0.0002 +/- 0.0016

Std Dev: 0.0556 +/- 0.0011

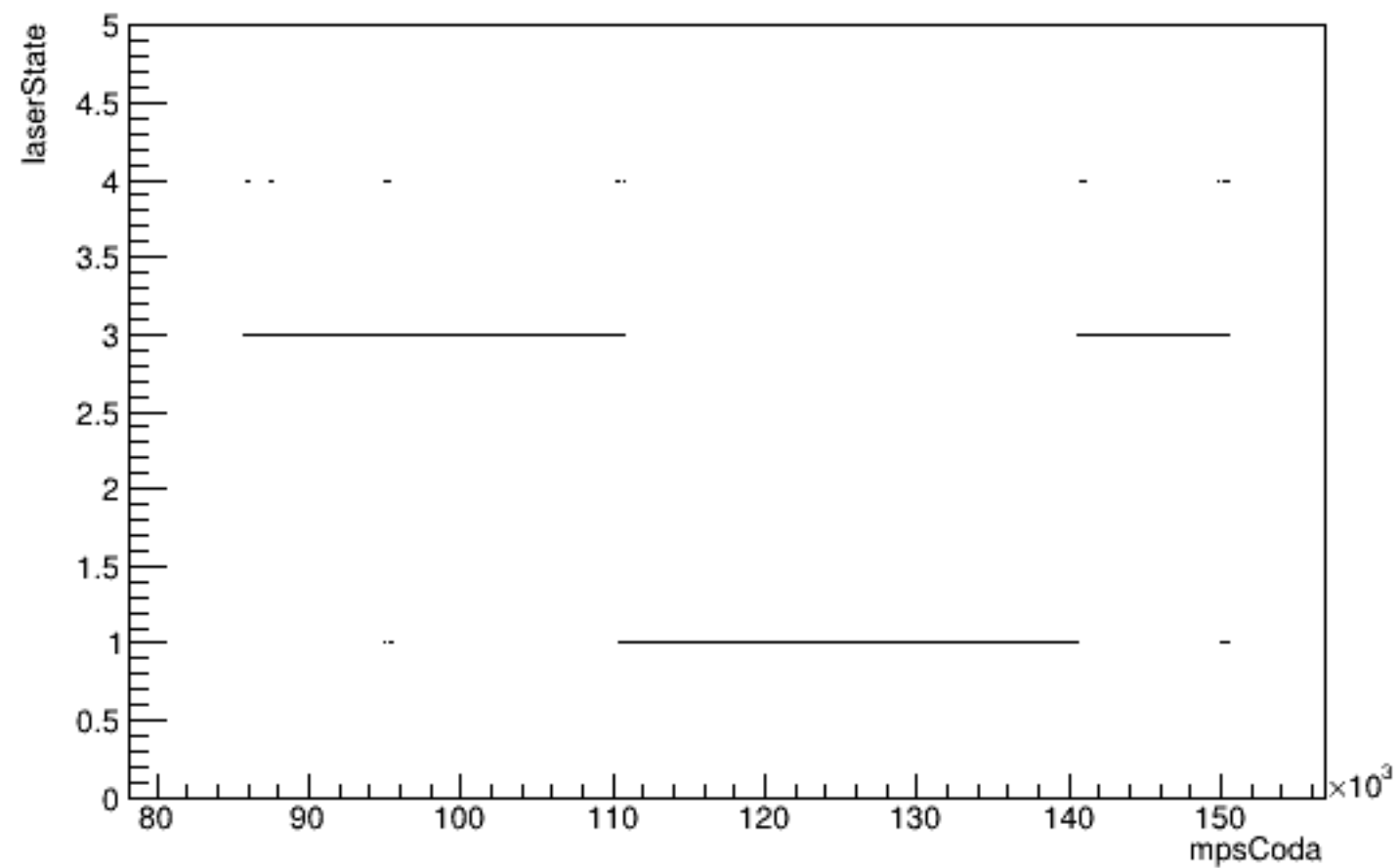
Run 4401 quartetwise, Asyms



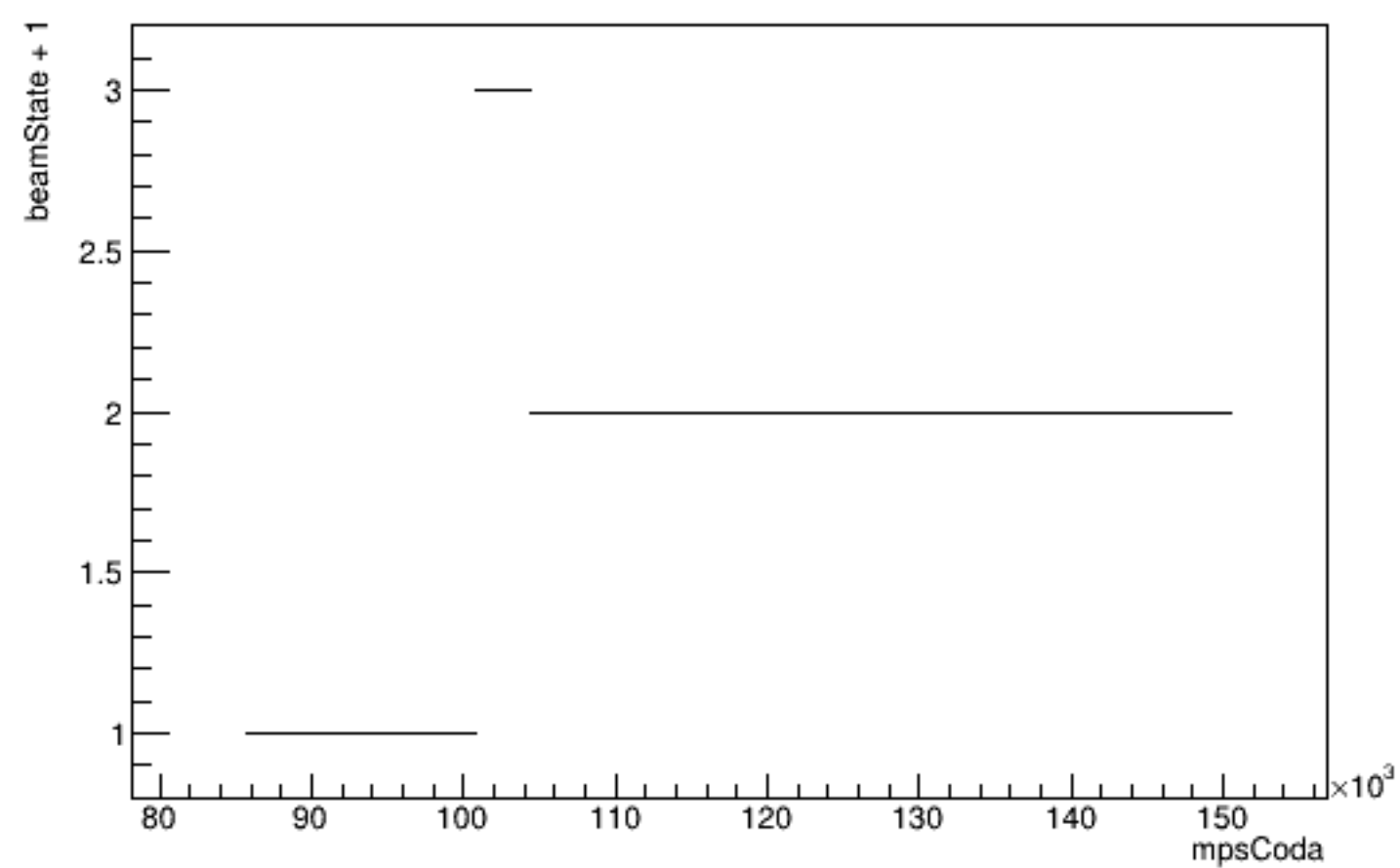
Acc0/NAcc0:mpsCoda {mpsCoda>=85689 && mpsCoda<=150488 && beamState==1}



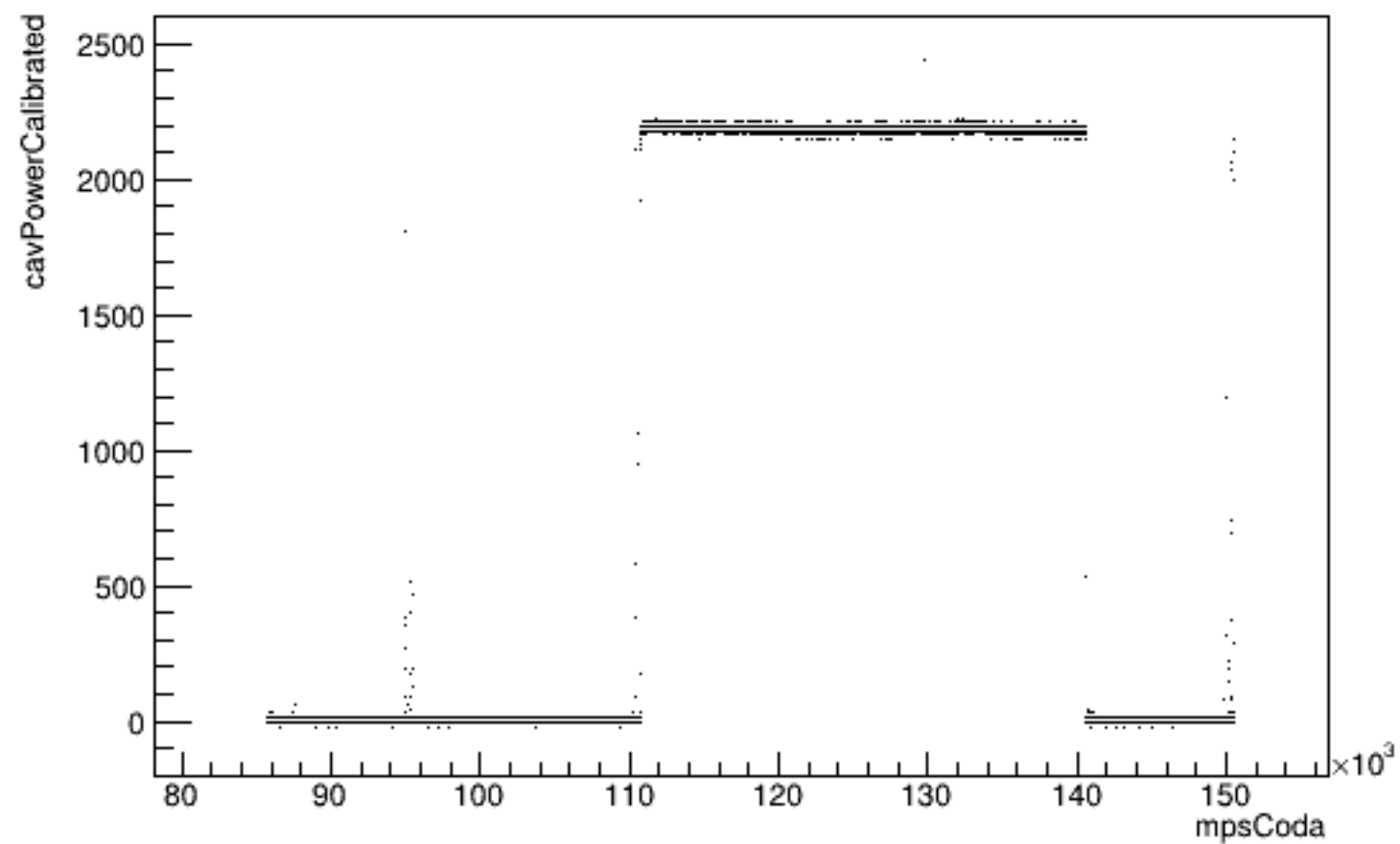
laserState:mpsCoda {mpsCoda&gt;=85689 &amp;&amp; mpsCoda&lt;=150488}



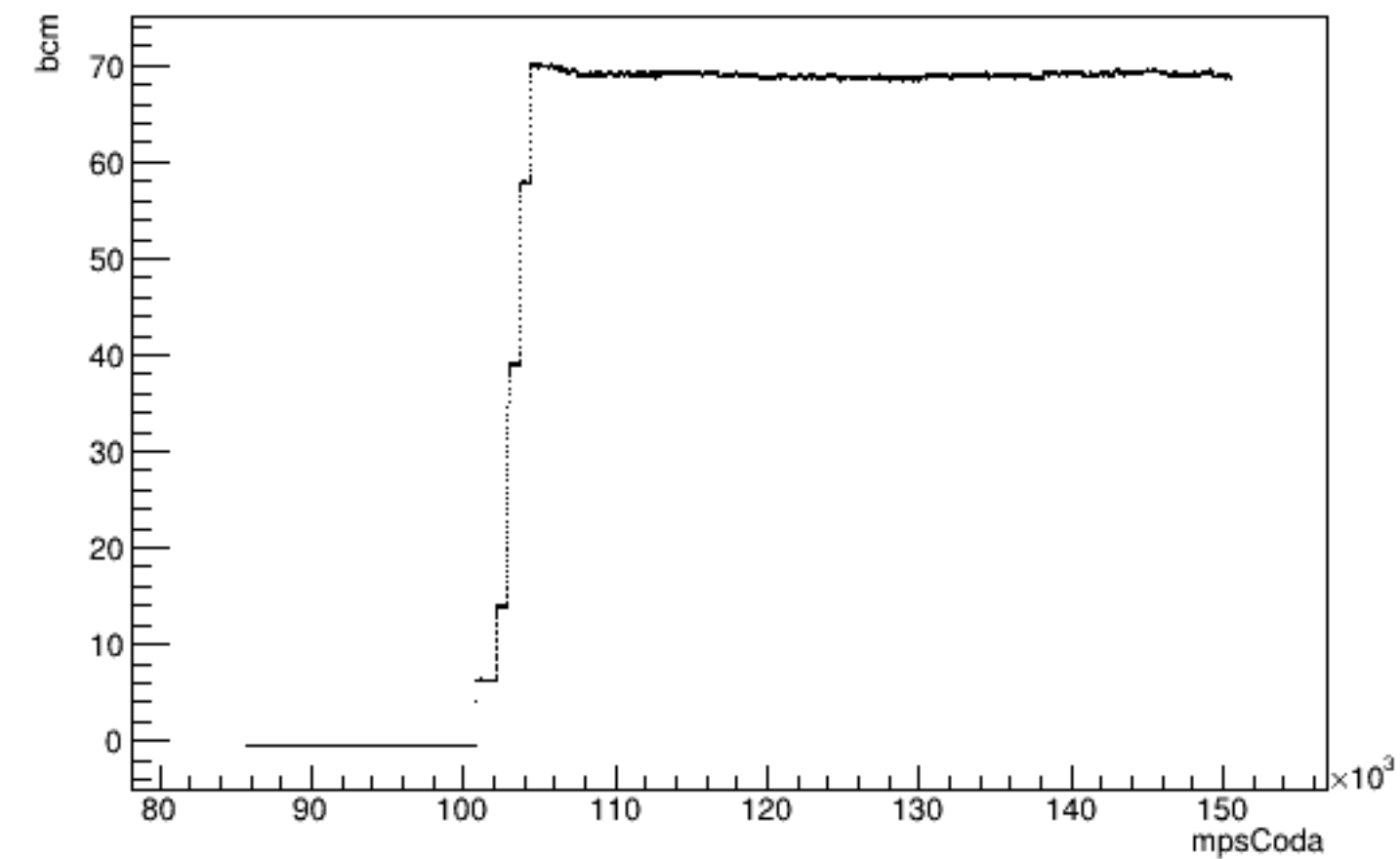
beamState + 1:mpsCoda {mpsCoda&gt;=85689 &amp;&amp; mpsCoda&lt;=150488}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=85689 &amp;&amp; mpsCoda&lt;=150488}



bcm:mpsCoda {mpsCoda&gt;=85689 &amp;&amp; mpsCoda&lt;=150488}



## Cycle 2, Diffs

Entries: 1213

Mean: 0.0008 +/- 0.0080

Std Dev: 0.2796 +/- 0.0057

Entries: 3780

Mean: -0.0759 +/- 0.0051

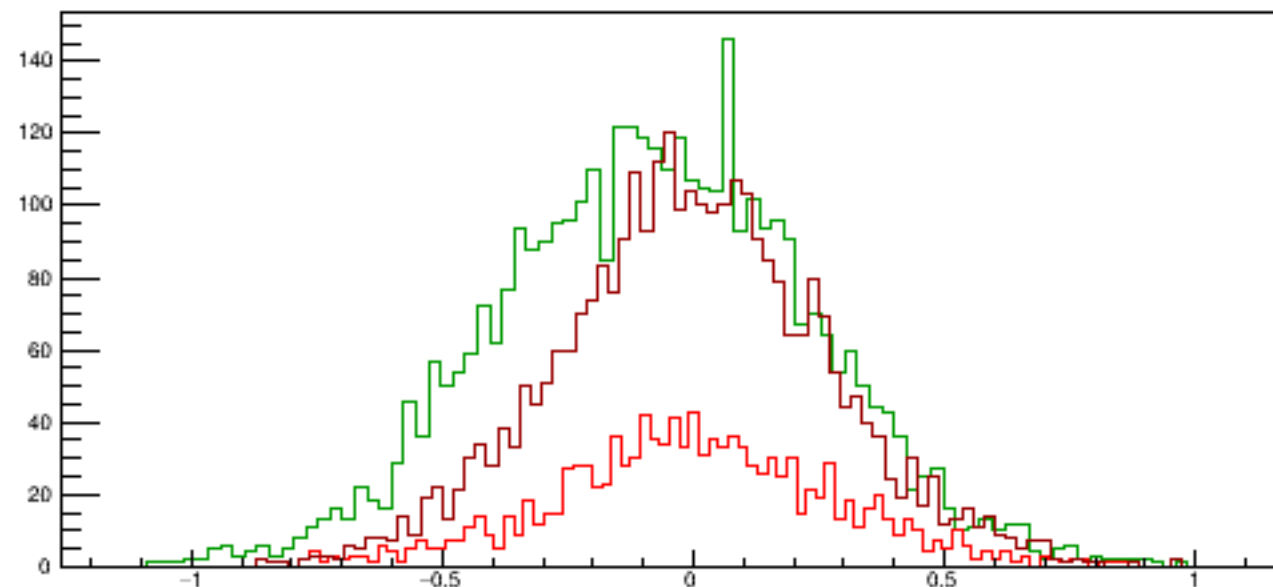
Std Dev: 0.3108 +/- 0.0036

Entries: 3094

Mean: -0.0041 +/- 0.0048

Std Dev: 0.2681 +/- 0.0034

Run 4401 quartetwise, Diffs



## Cycle 2, Sums

Entries: 1213

Mean: 14.6257 +/- 0.0113

Std Dev: 0.3926 +/- 0.0080

Entries: 3780

Mean: 19.5020 +/- 0.0093

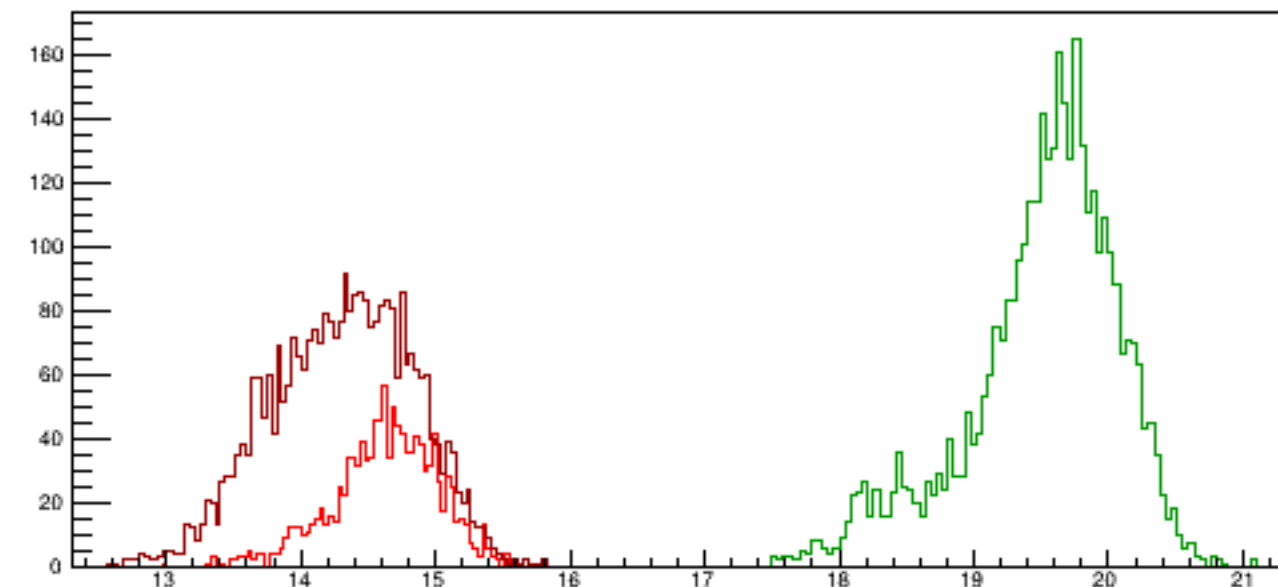
Std Dev: 0.5712 +/- 0.0066

Entries: 3094

Mean: 14.3065 +/- 0.0095

Std Dev: 0.5286 +/- 0.0067

Run 4401 quartetwise, Sums



## Cycle 2, Asyms

Entries: 1213

Mean: 0.0002 +/- 0.0016

Std Dev: 0.0555 +/- 0.0011

Entries: 3780

Mean: -0.0151 +/- 0.0010

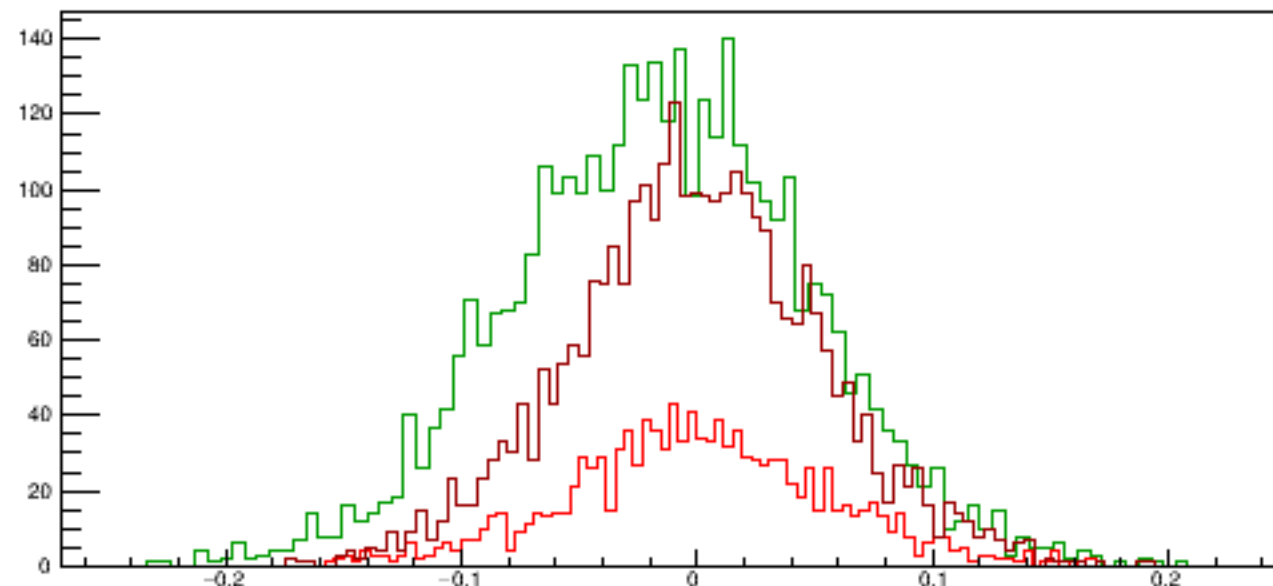
Std Dev: 0.0629 +/- 0.0007

Entries: 3094

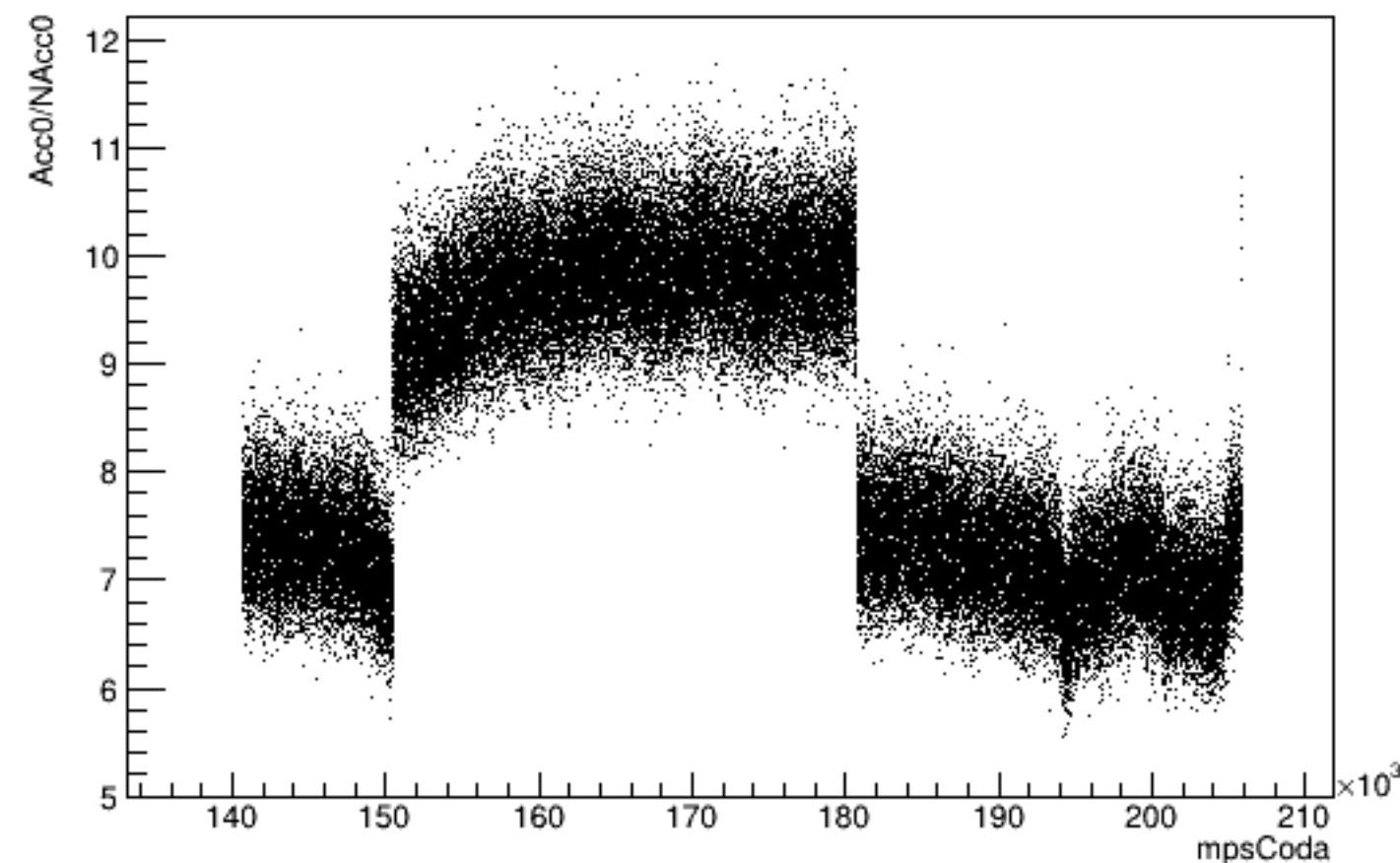
Mean: -0.0008 +/- 0.0010

Std Dev: 0.0532 +/- 0.0007

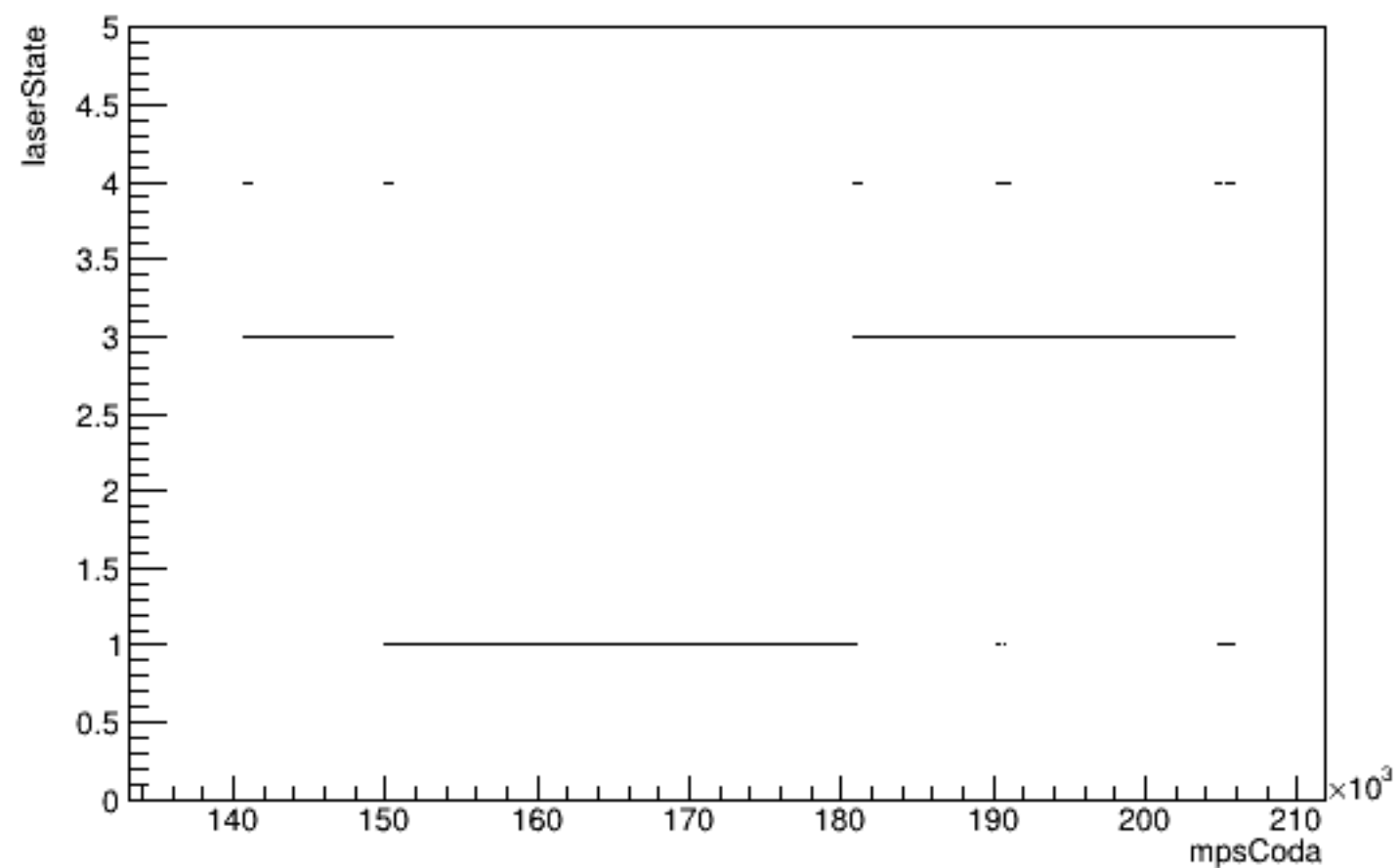
Run 4401 quartetwise, Asyms



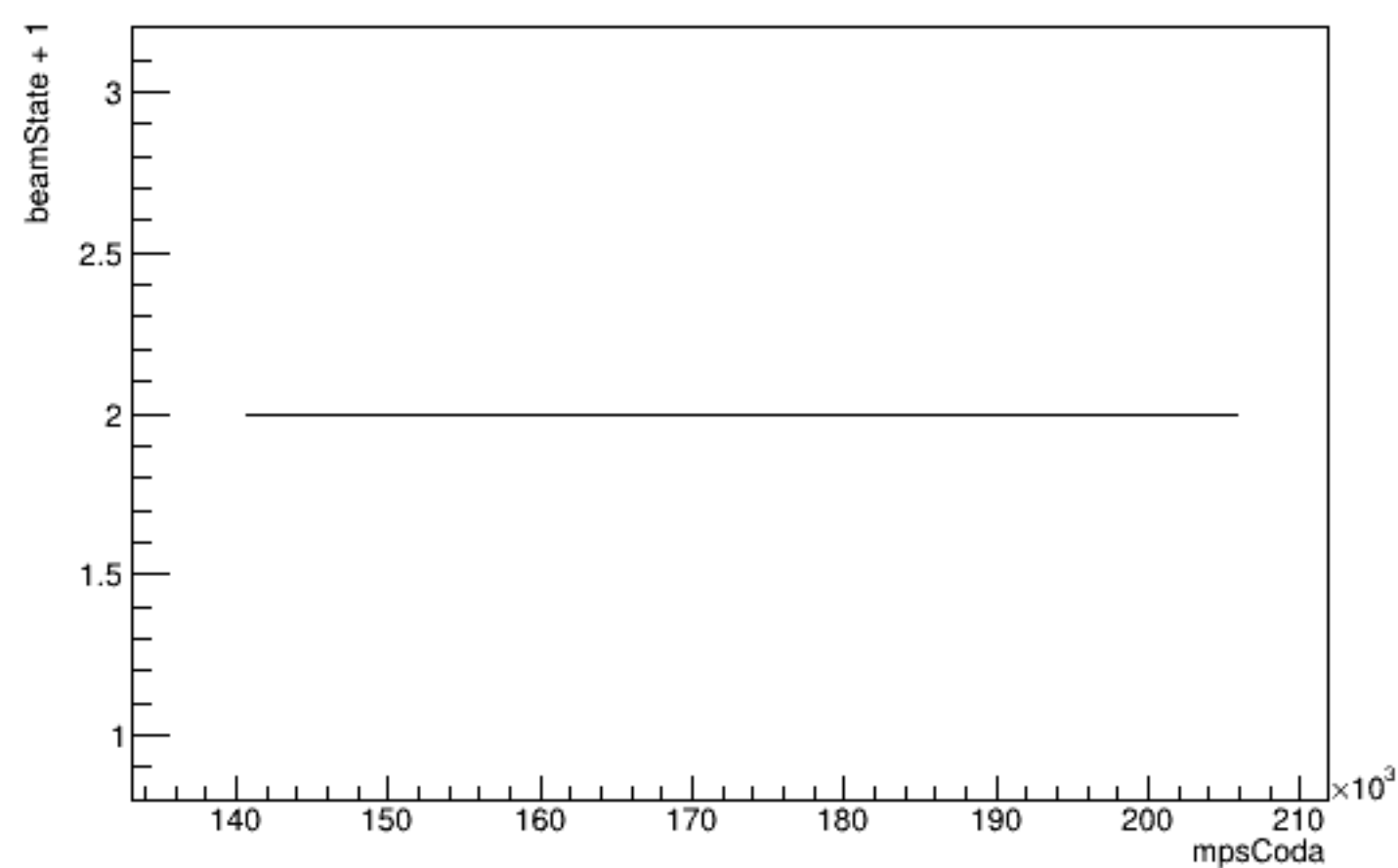
Acc0/NAcc0:mpsCoda (mpsCoda>=140649 && mpsCoda<=205856 && beamState==1)



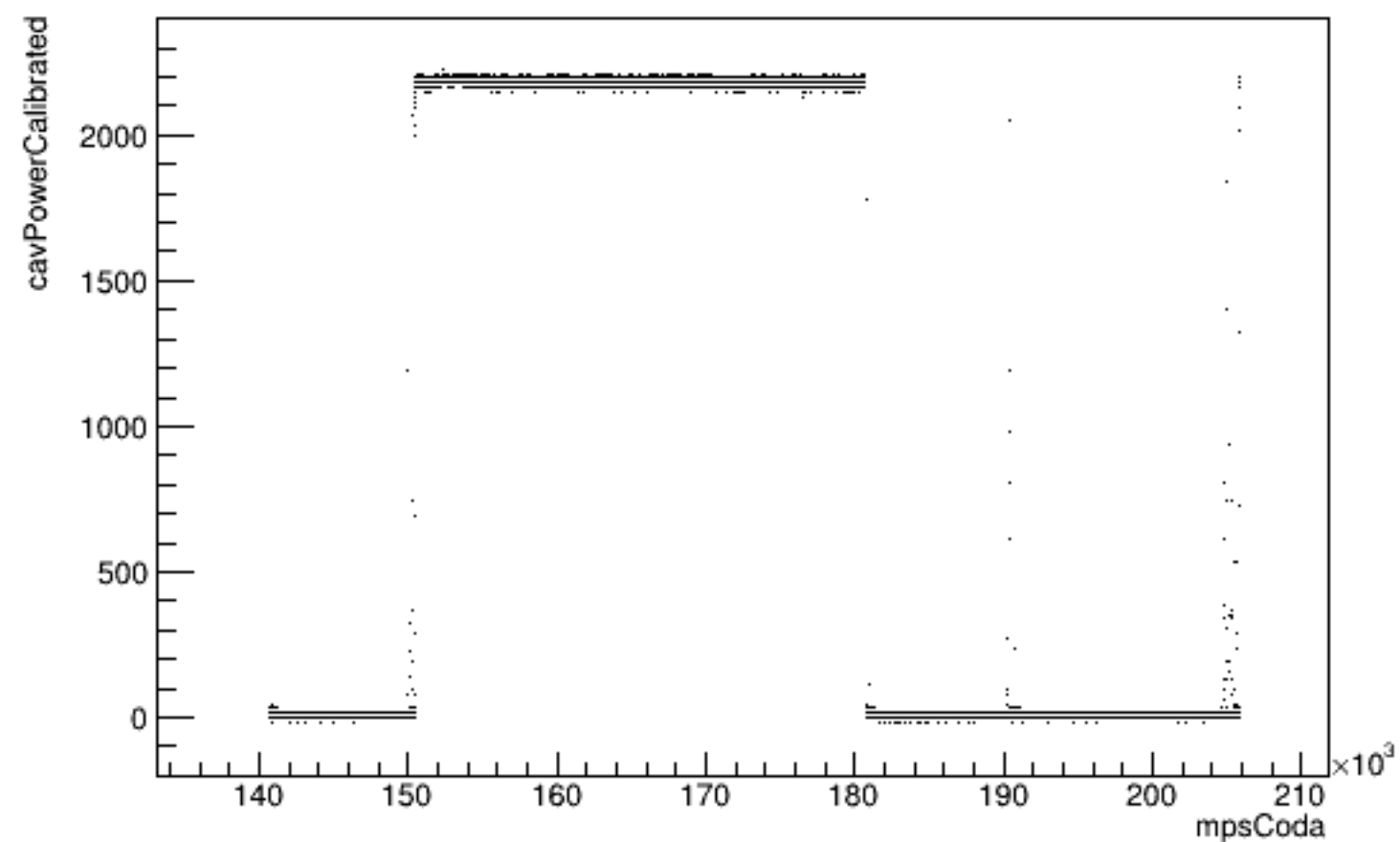
laserState:mpsCoda {mpsCoda&gt;=140649 &amp;&amp; mpsCoda&lt;=205856}



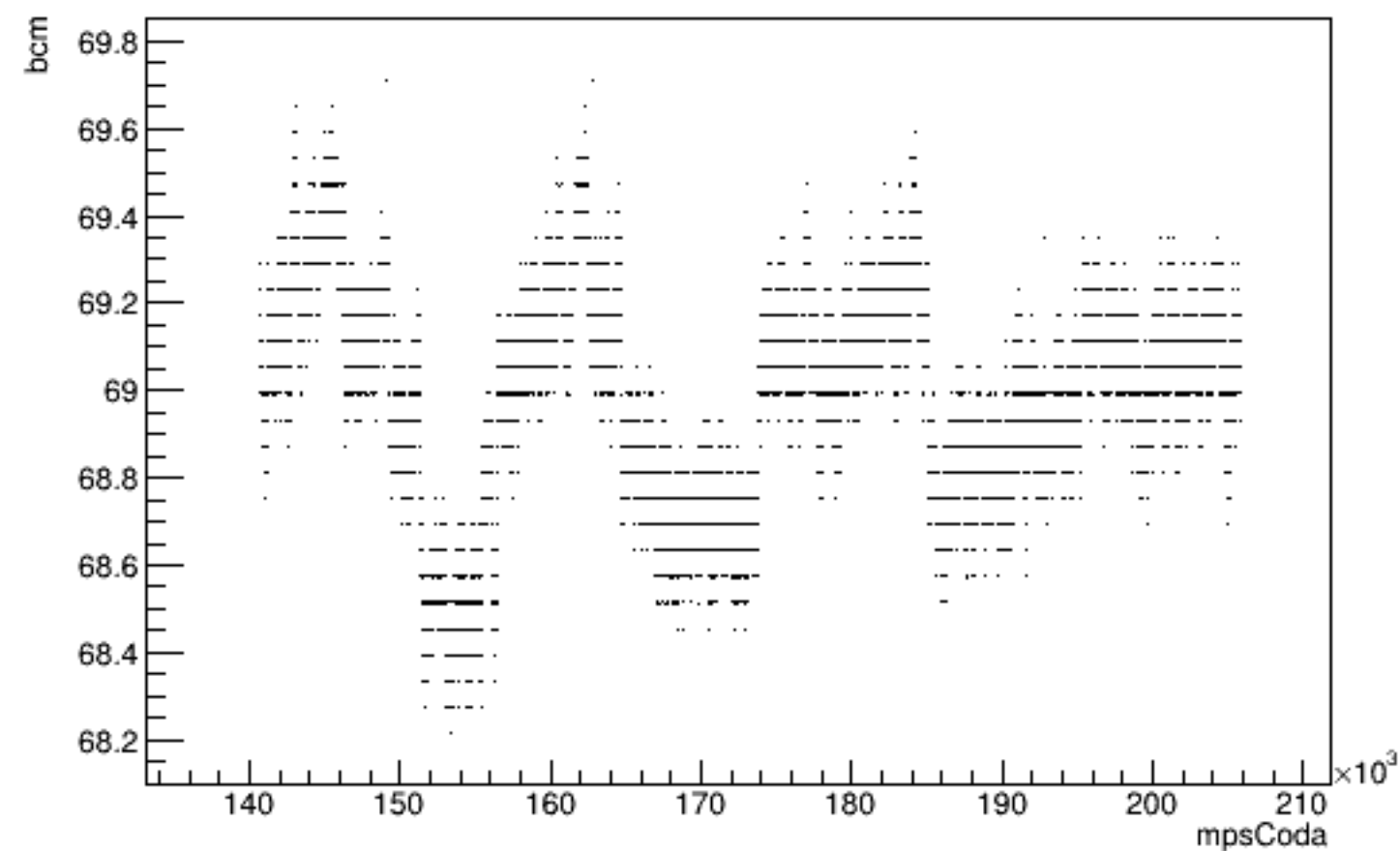
beamState + 1:mpsCoda {mpsCoda&gt;=140649 &amp;&amp; mpsCoda&lt;=205856}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=140649 &amp;&amp; mpsCoda&lt;=205856}



bcm:mpsCoda {mpsCoda&gt;=140649 &amp;&amp; mpsCoda&lt;=205856}



## Cycle 3, Diffs

Entries: 3042

Mean: 0.0153 +/- 0.0050

Std Dev: 0.2780 +/- 0.0036

Entries: 3702

Mean: -0.0682 +/- 0.0053

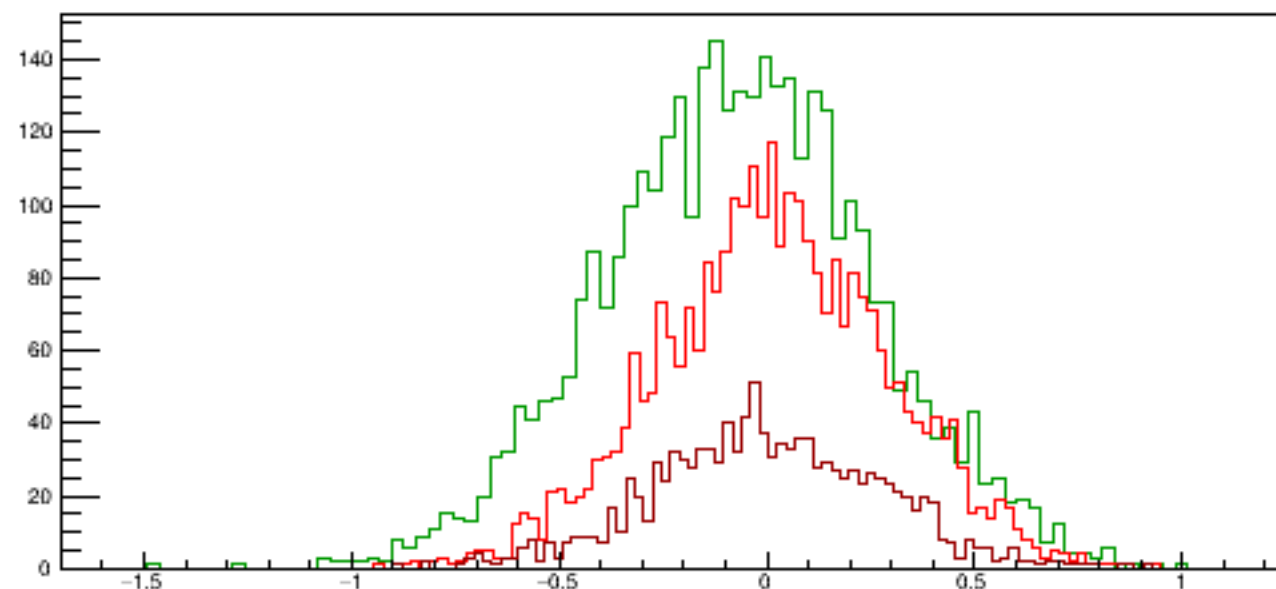
Std Dev: 0.3226 +/- 0.0037

Entries: 1175

Mean: -0.0010 +/- 0.0080

Std Dev: 0.2747 +/- 0.0057

Run 4401 quartetwise, Diffs



## Cycle 3, Sums

Entries: 3042

Mean: 15.2715 +/- 0.0064

Std Dev: 0.3550 +/- 0.0046

Entries: 3702

Mean: 19.2506 +/- 0.0109

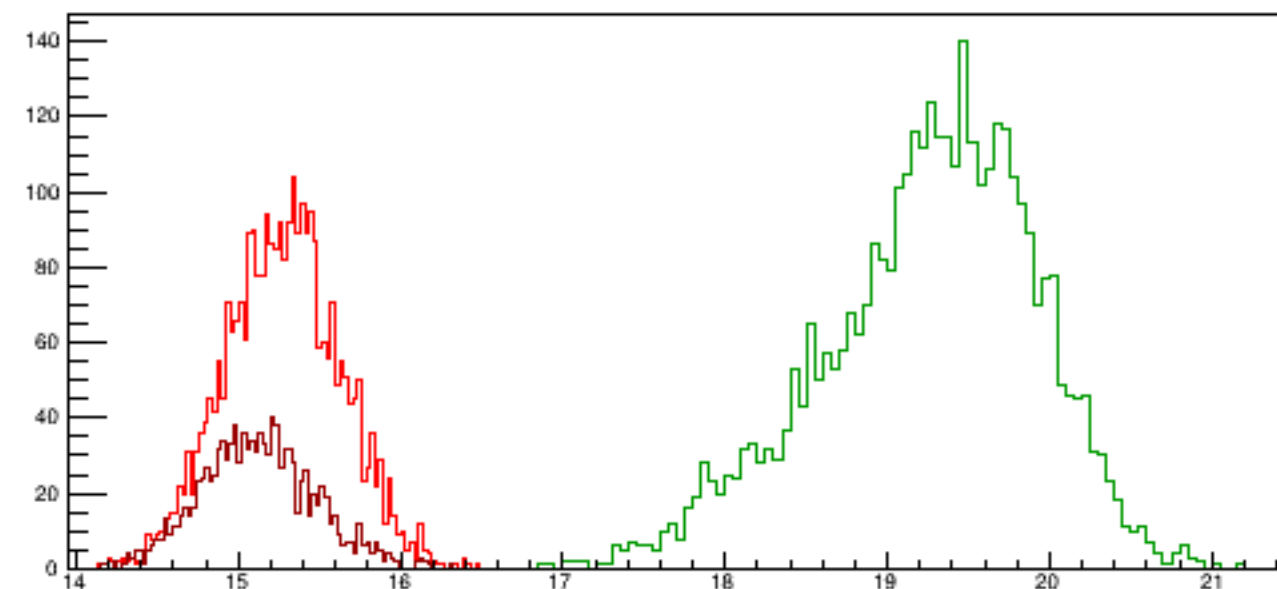
Std Dev: 0.6644 +/- 0.0077

Entries: 1175

Mean: 15.1190 +/- 0.0101

Std Dev: 0.3478 +/- 0.0072

Run 4401 quartetwise, Sums



## Cycle 3, Asyms

Entries: 3042

Mean: 0.0038 +/- 0.0012

Std Dev: 0.0685 +/- 0.0009

Entries: 3702

Mean: -0.0174 +/- 0.0014

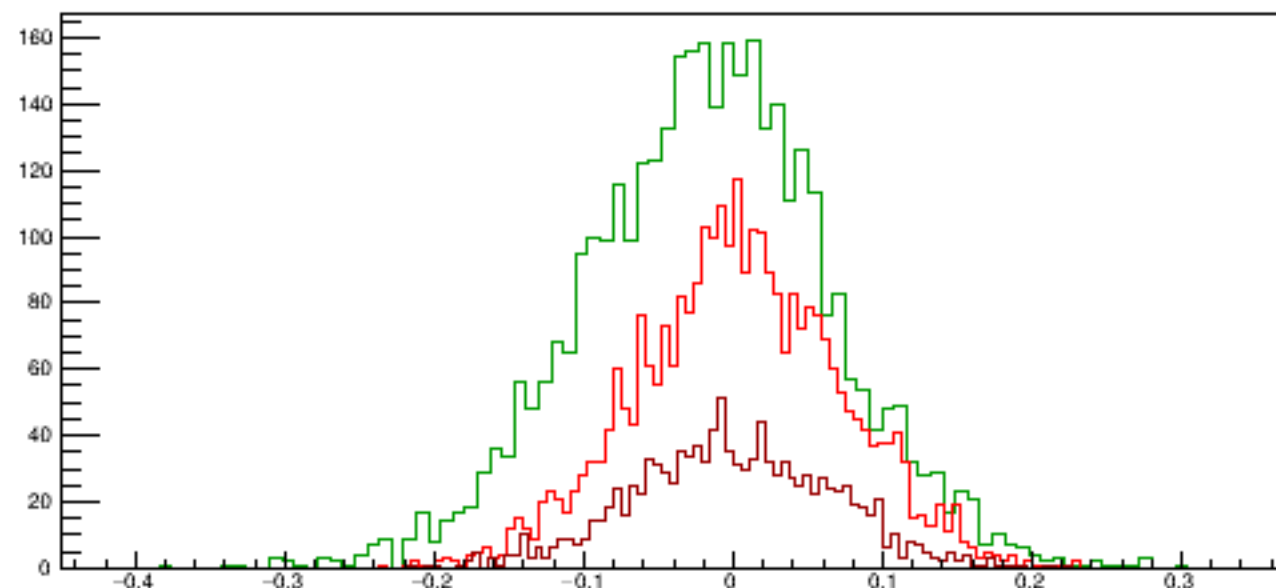
Std Dev: 0.0833 +/- 0.0010

Entries: 1175

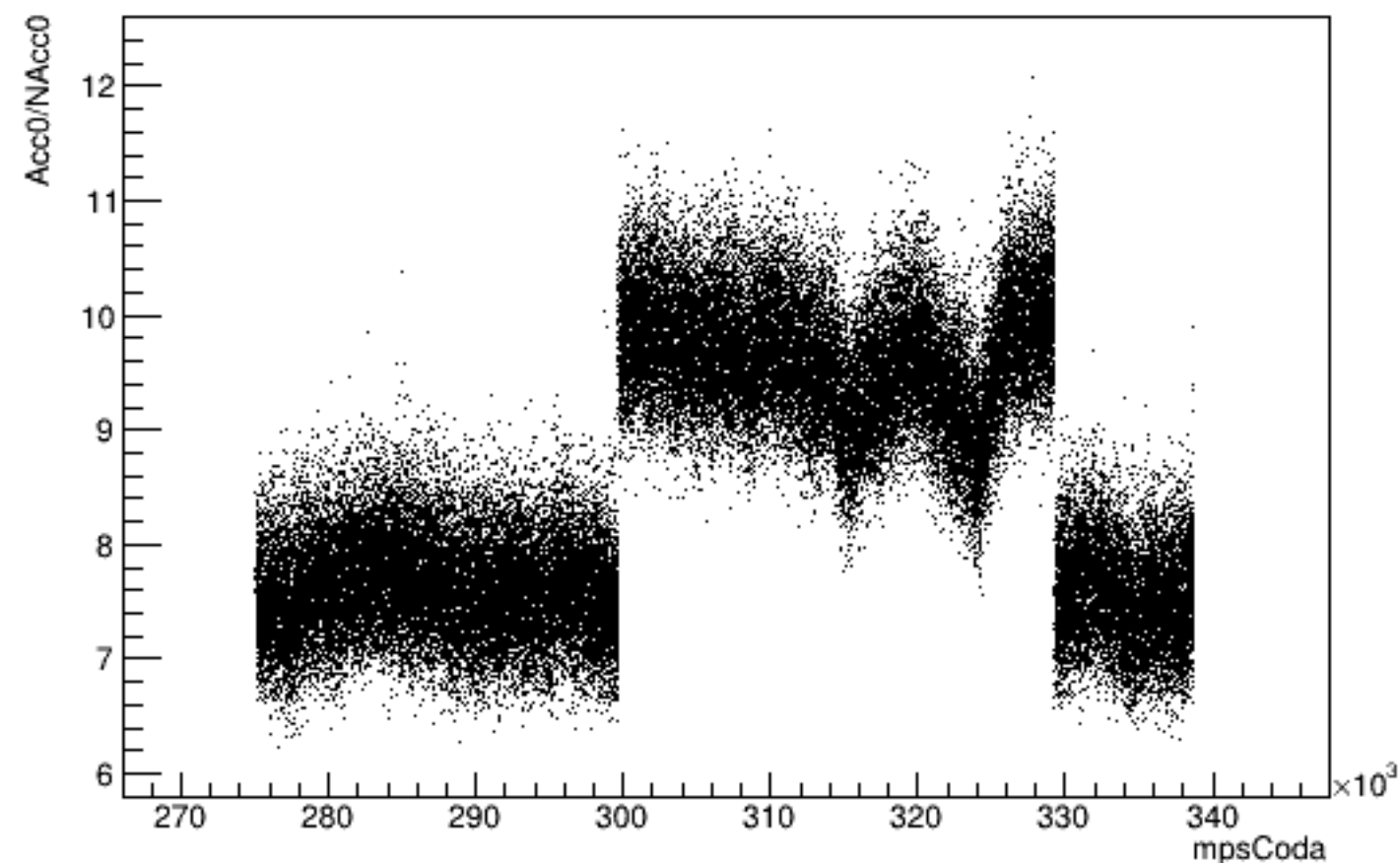
Mean: -0.0002 +/- 0.0020

Std Dev: 0.0677 +/- 0.0014

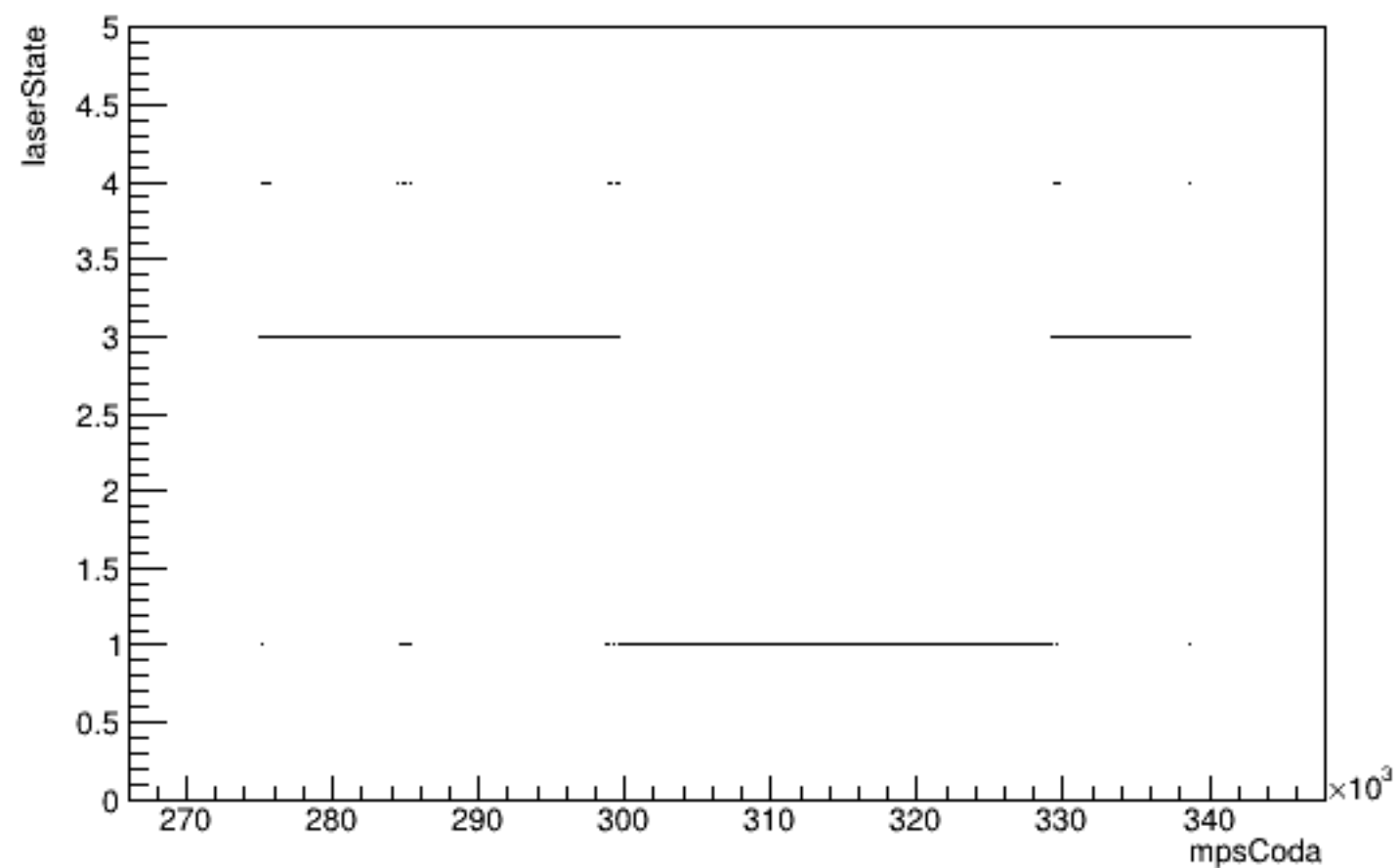
Run 4401 quartetwise, Asyms



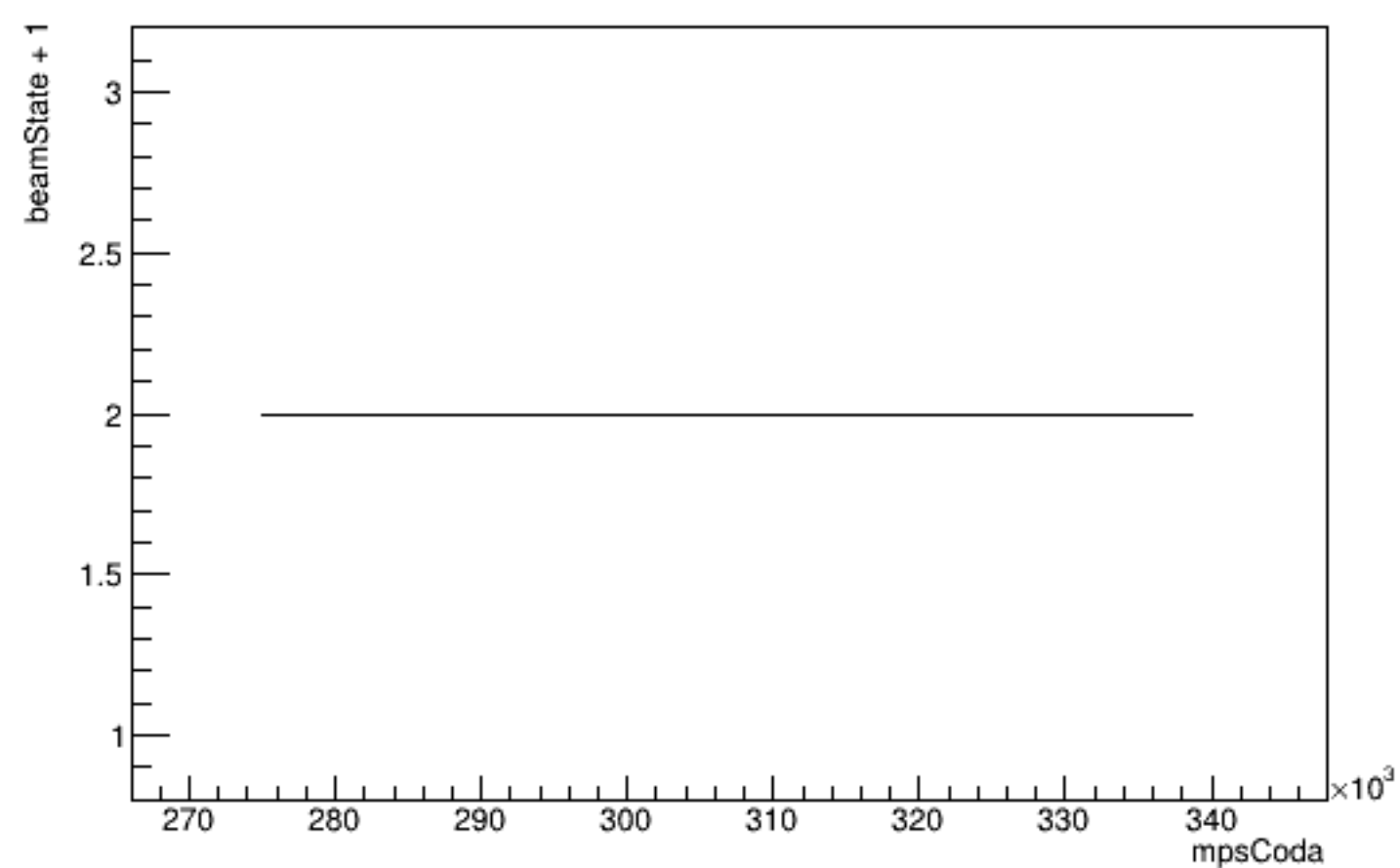
Acc0/NAcc0:mpsCoda (mpsCoda>=275073 && mpsCoda<=338736 && beamState==1)



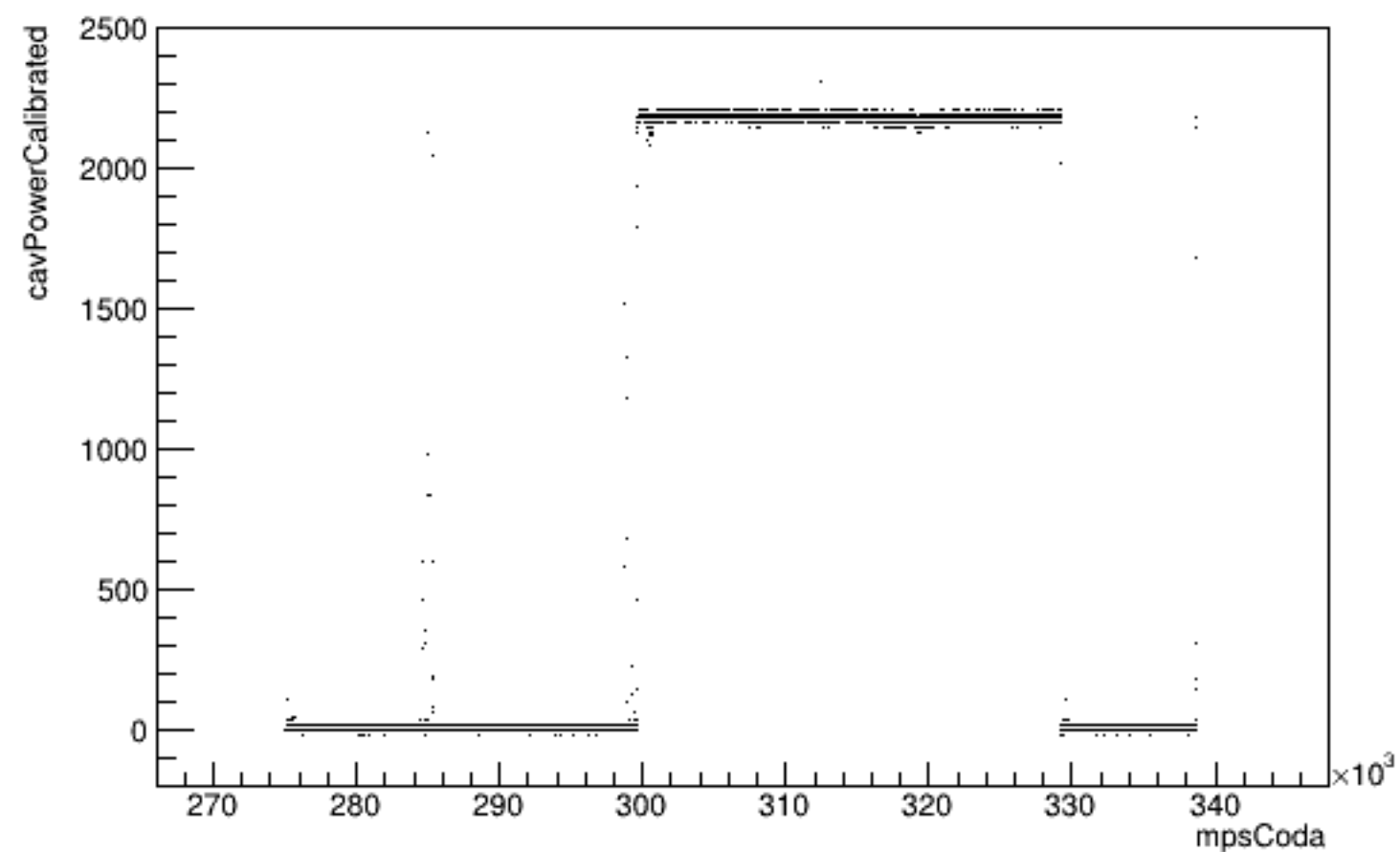
laserState:mpsCoda {mpsCoda&gt;=275073 &amp;&amp; mpsCoda&lt;=338736}



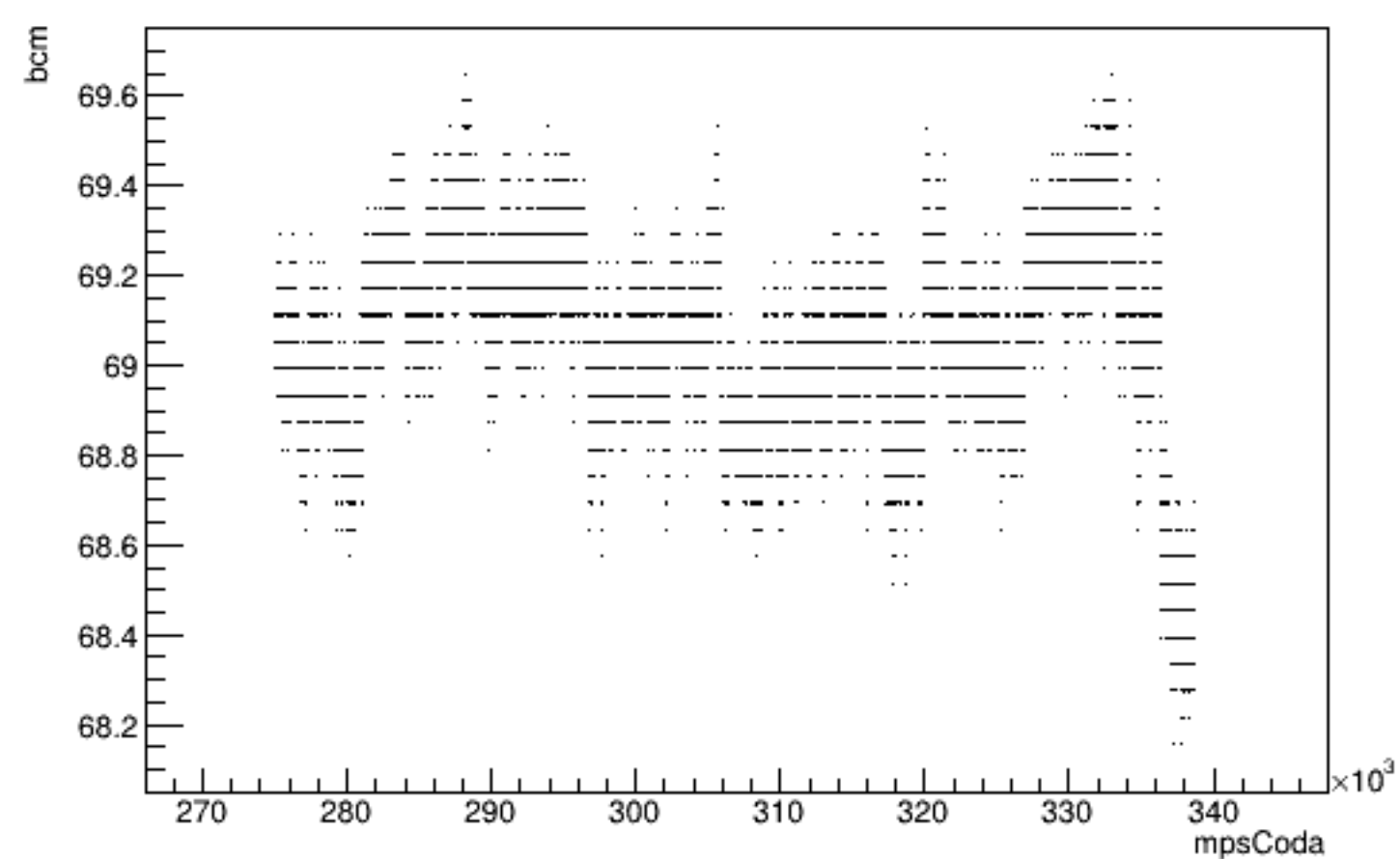
beamState + 1:mpsCoda {mpsCoda&gt;=275073 &amp;&amp; mpsCoda&lt;=338736}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=275073 &amp;&amp; mpsCoda&lt;=338736}



bcm:mpsCoda {mpsCoda&gt;=275073 &amp;&amp; mpsCoda&lt;=338736}



## Cycle 4, Diffs

Entries: 2440

Mean: -0.0017 +/- 0.0055

Std Dev: 0.2696 +/- 0.0039

Entries: 2975

Mean: -0.0744 +/- 0.0055

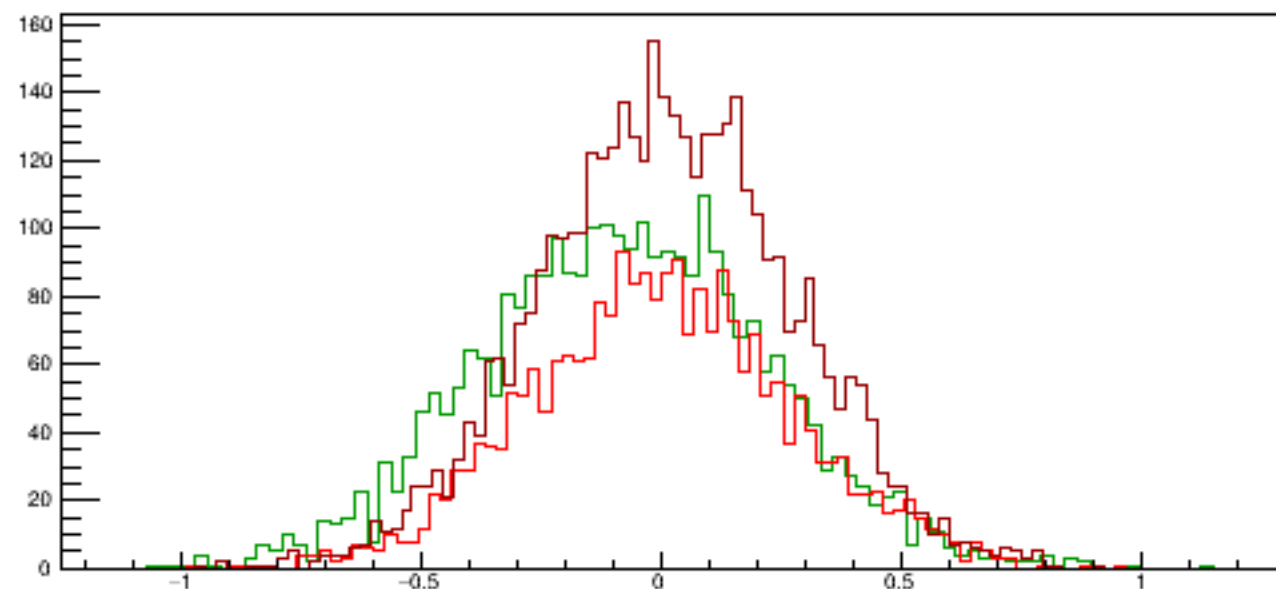
Std Dev: 0.3000 +/- 0.0039

Entries: 4192

Mean: 0.0095 +/- 0.0041

Std Dev: 0.2640 +/- 0.0029

Run 4401 quartetwise, Diffs



## Cycle 4, Sums

Entries: 2440

Mean: 13.6432 +/- 0.0136

Std Dev: 0.6742 +/- 0.0097

Entries: 2975

Mean: 18.6413 +/- 0.0114

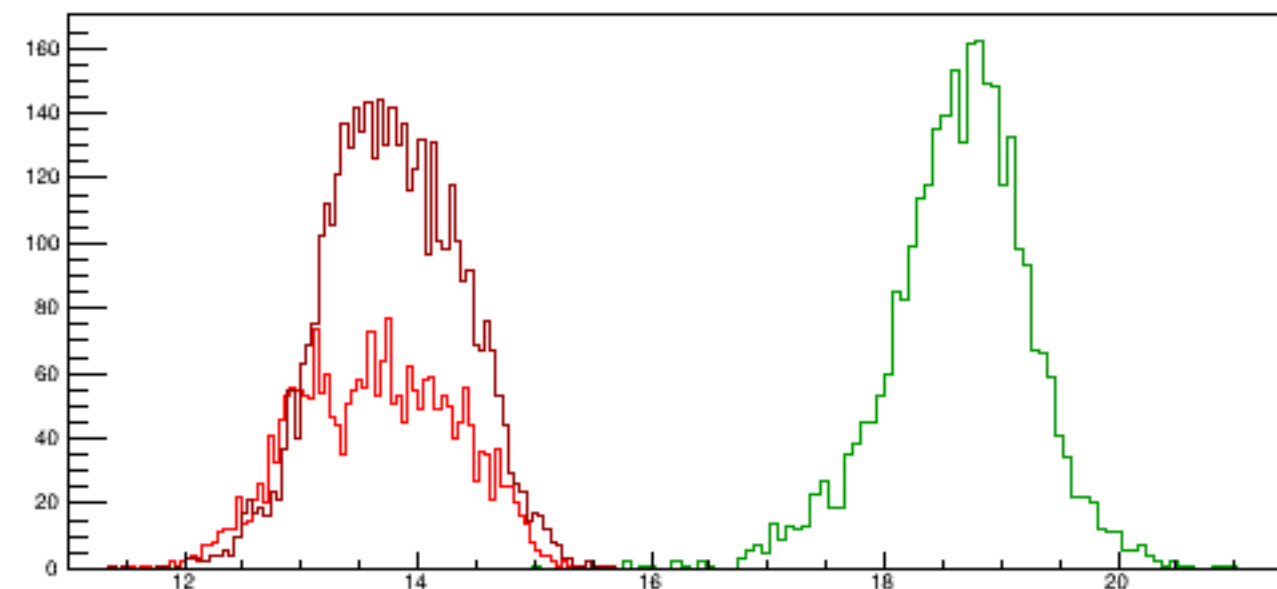
Std Dev: 0.6218 +/- 0.0081

Entries: 4192

Mean: 13.7897 +/- 0.0089

Std Dev: 0.5783 +/- 0.0063

Run 4401 quartetwise, Sums



## Cycle 4, Asyms

Entries: 2440

Mean: -0.0003 +/- 0.0011

Std Dev: 0.0547 +/- 0.0008

Entries: 2975

Mean: -0.0153 +/- 0.0011

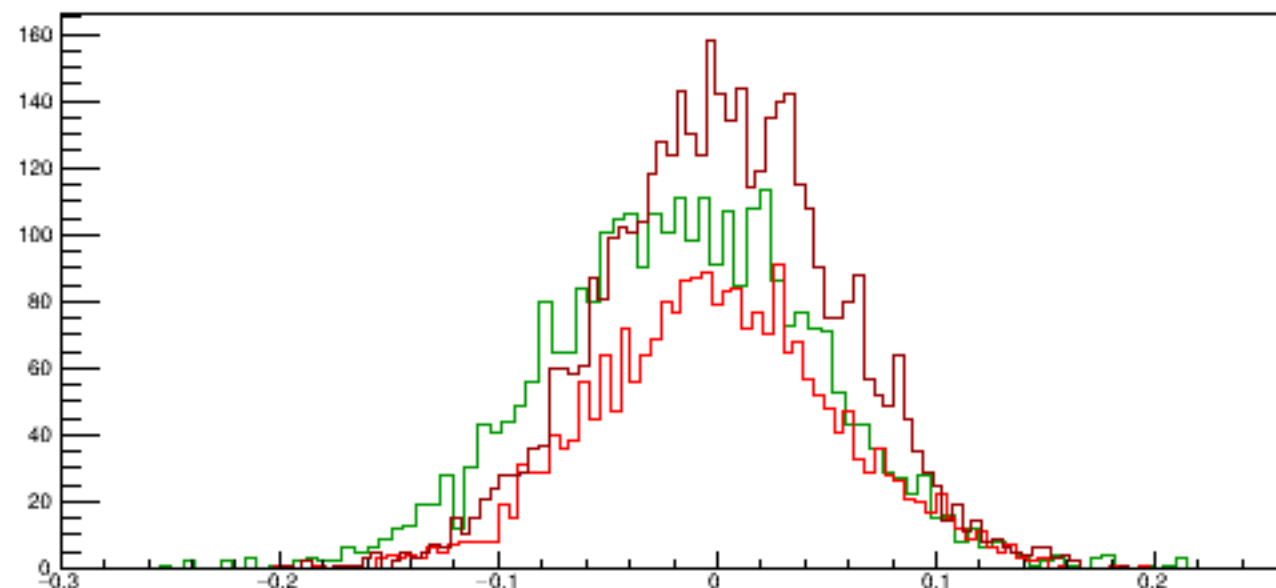
Std Dev: 0.0622 +/- 0.0008

Entries: 4192

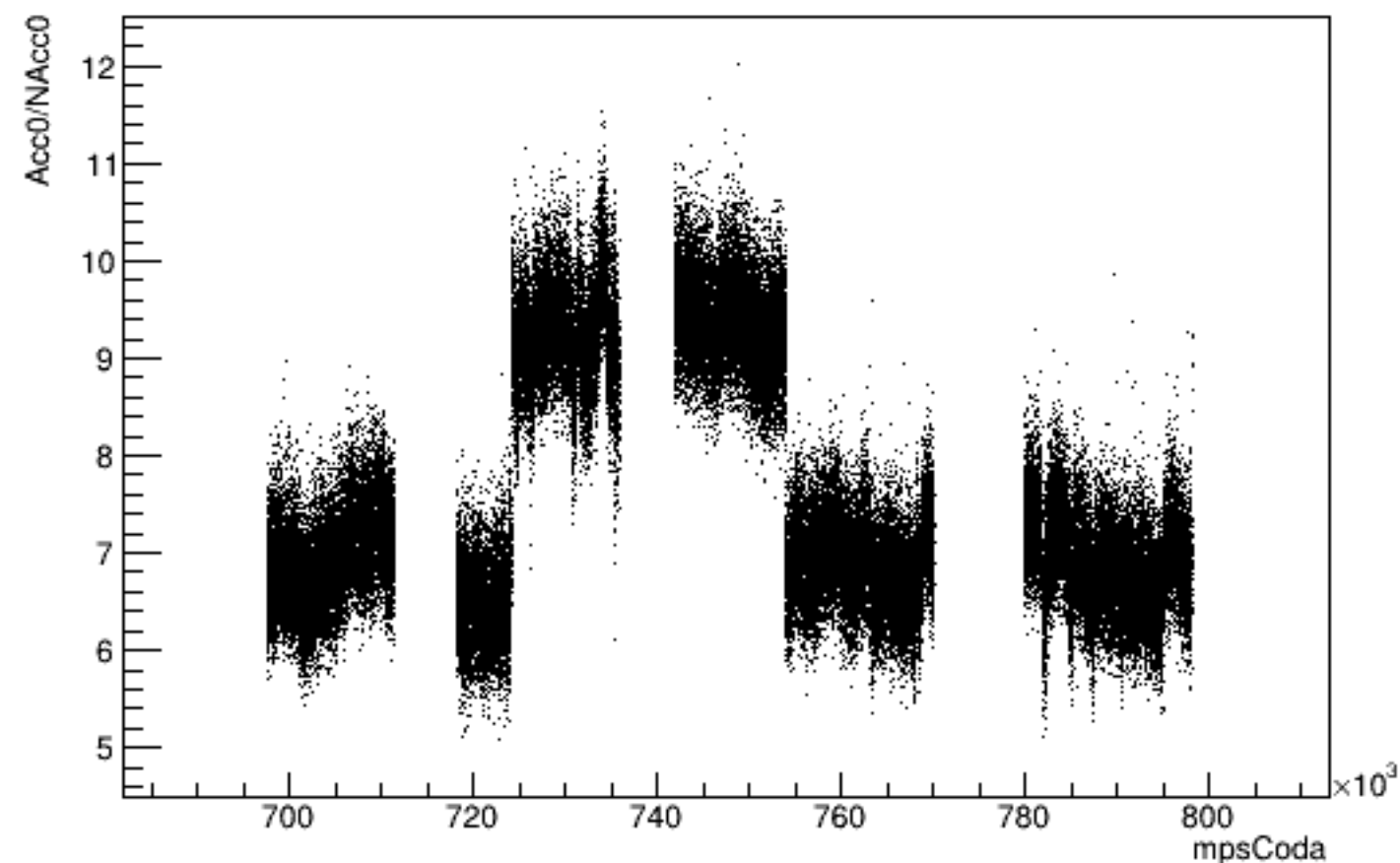
Mean: 0.0019 +/- 0.0008

Std Dev: 0.0536 +/- 0.0006

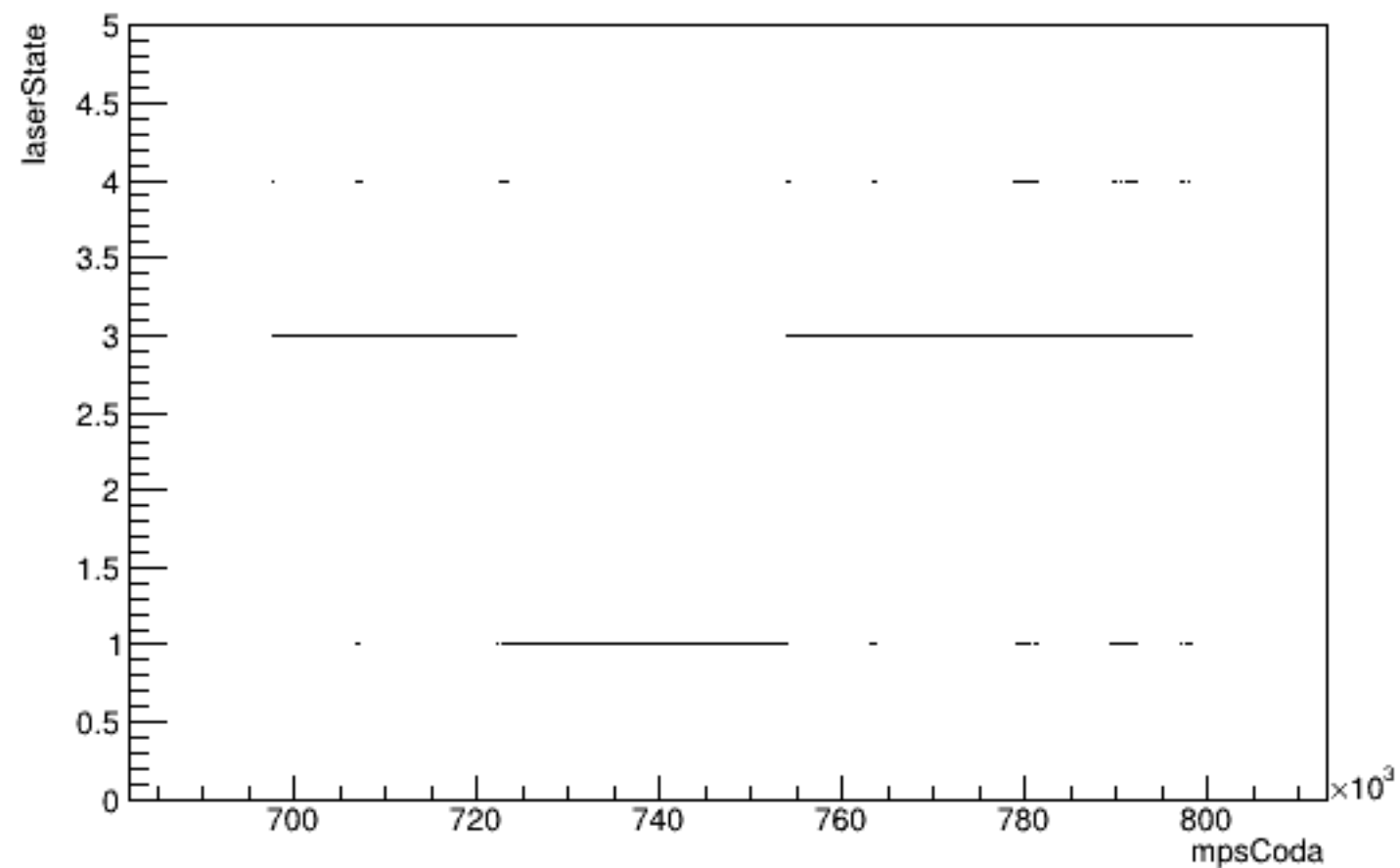
Run 4401 quartetwise, Asyms



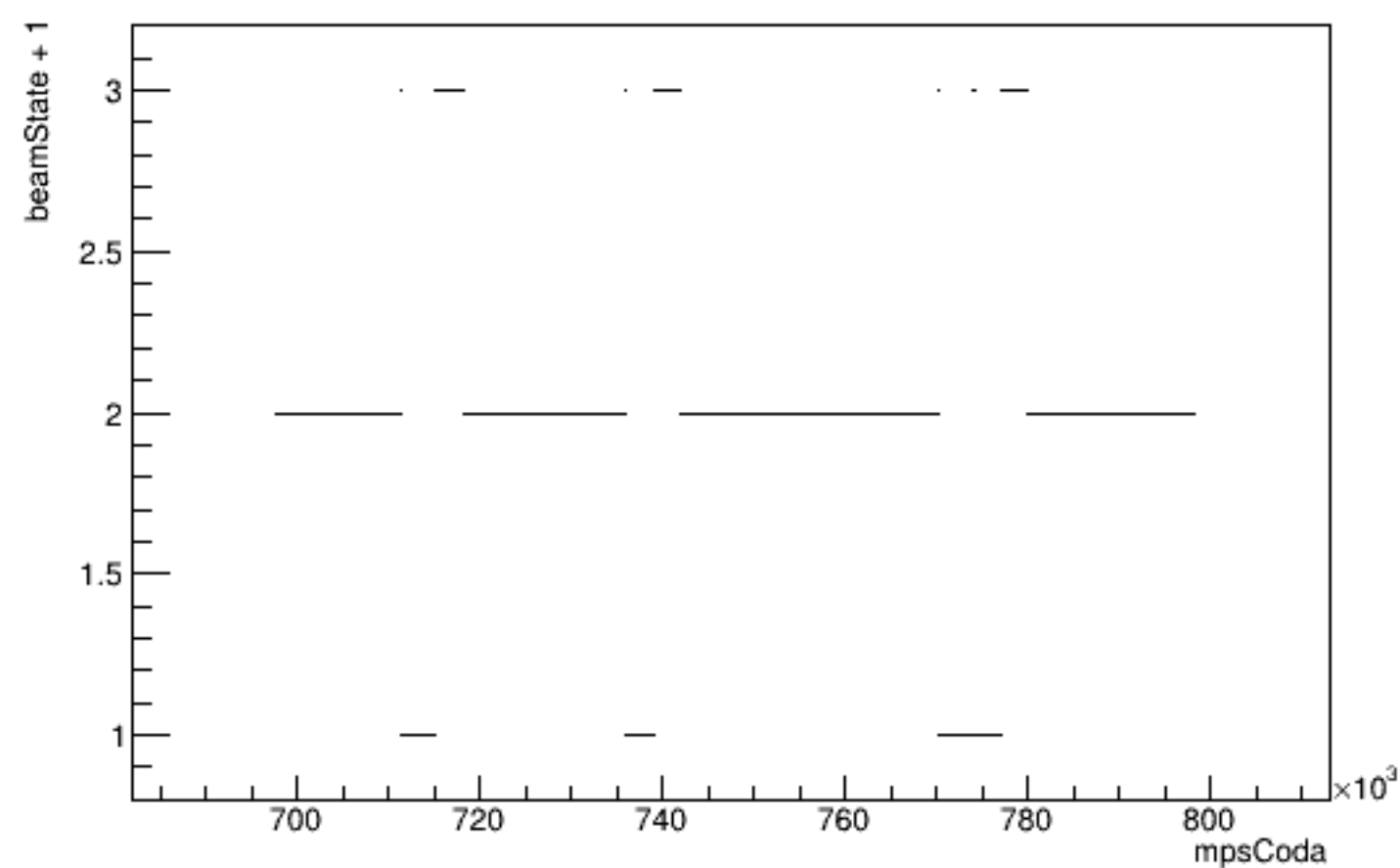
Acc0/NAcc0:mpsCoda (mpsCoda>=697529 && mpsCoda<=798120 && beamState==1)



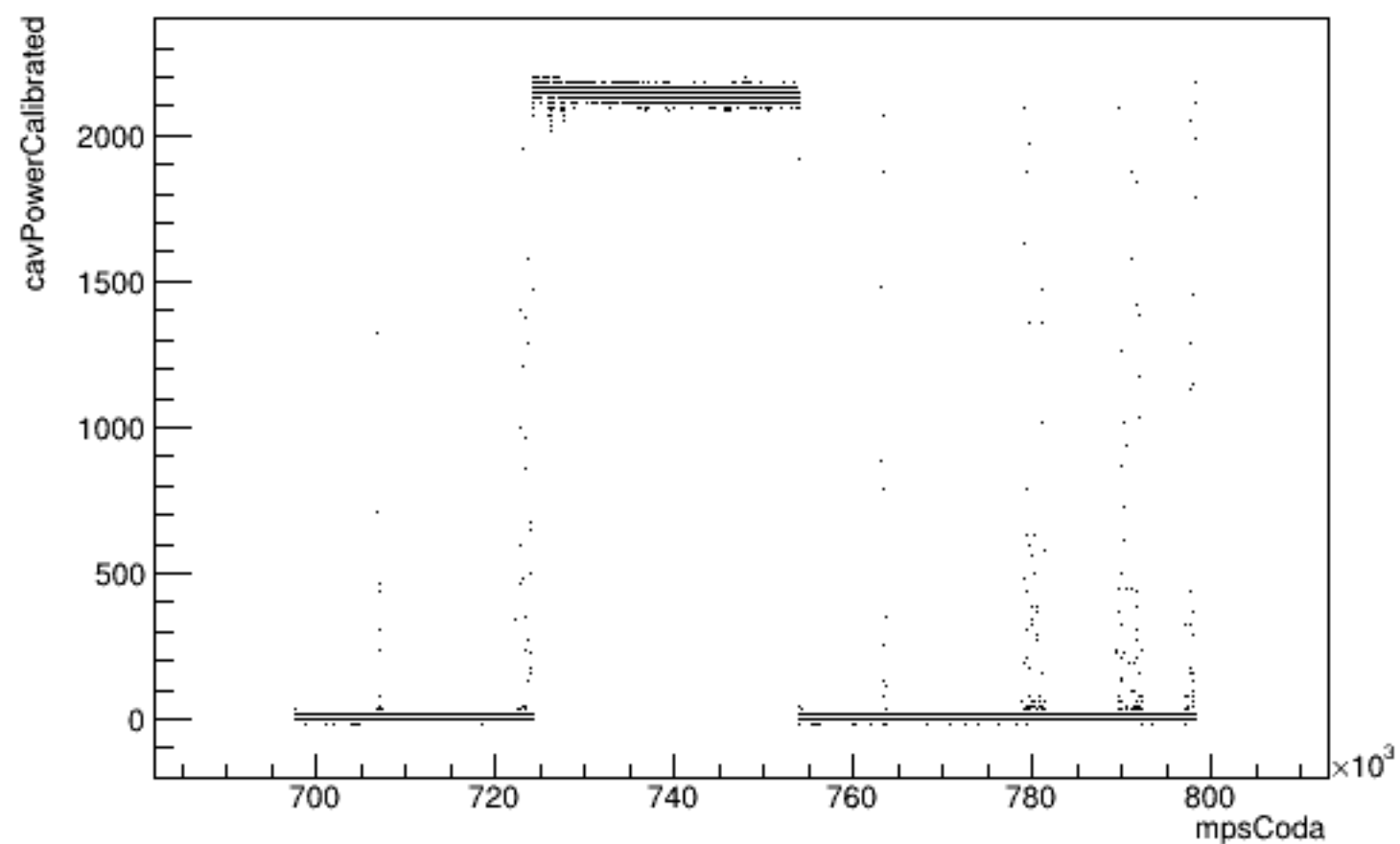
laserState:mpsCoda {mpsCoda&gt;=697529 &amp;&amp; mpsCoda&lt;=798120}



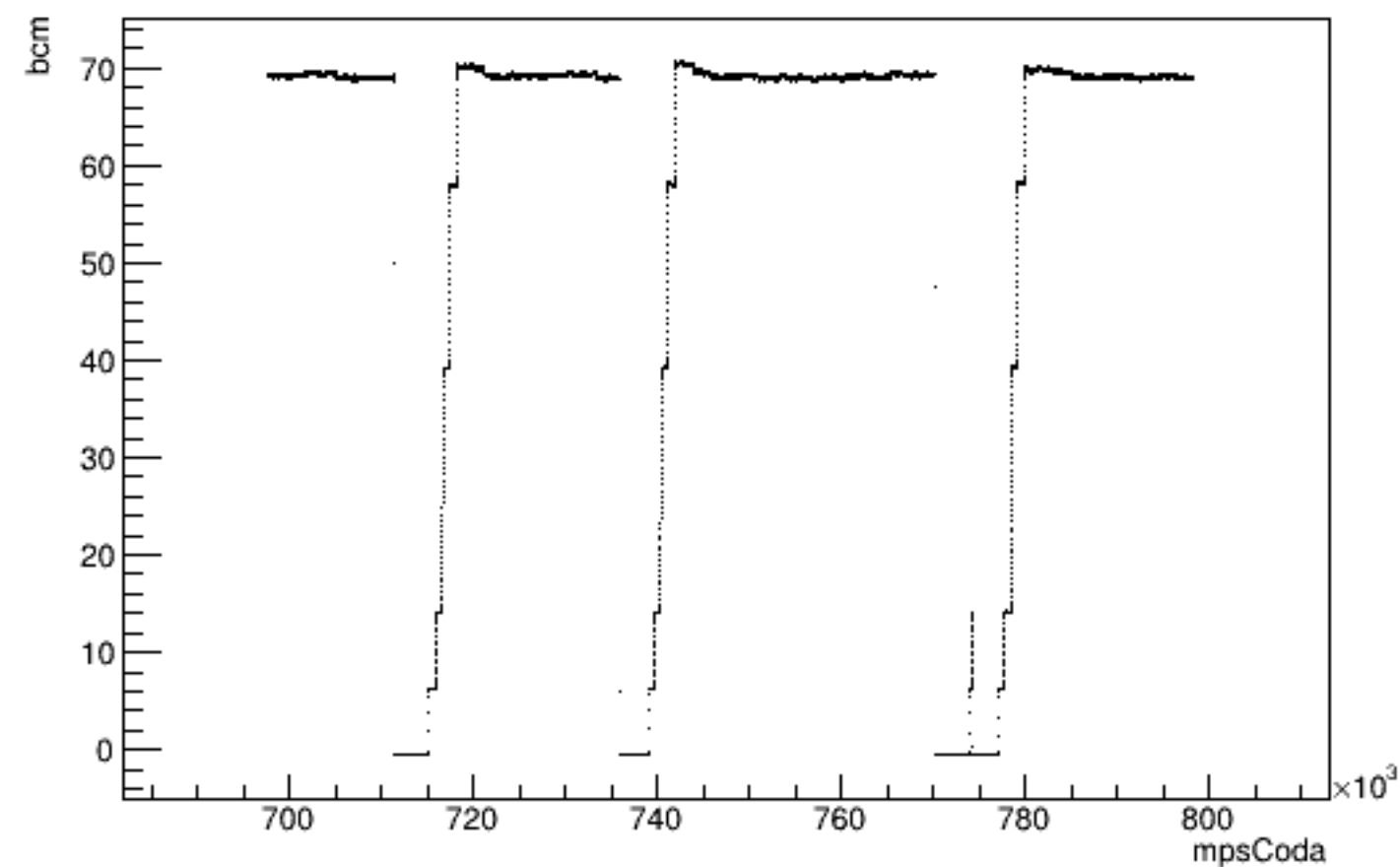
beamState + 1:mpsCoda {mpsCoda&gt;=697529 &amp;&amp; mpsCoda&lt;=798120}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=697529 &amp;&amp; mpsCoda&lt;=798120}



bcm:mpsCoda {mpsCoda&gt;=697529 &amp;&amp; mpsCoda&lt;=798120}



## Cycle 5, Diffs

Entries: 4192

Mean: 0.0095 +/- 0.0041

Std Dev: 0.2640 +/- 0.0029

Entries: 3797

Mean: -0.0736 +/- 0.0050

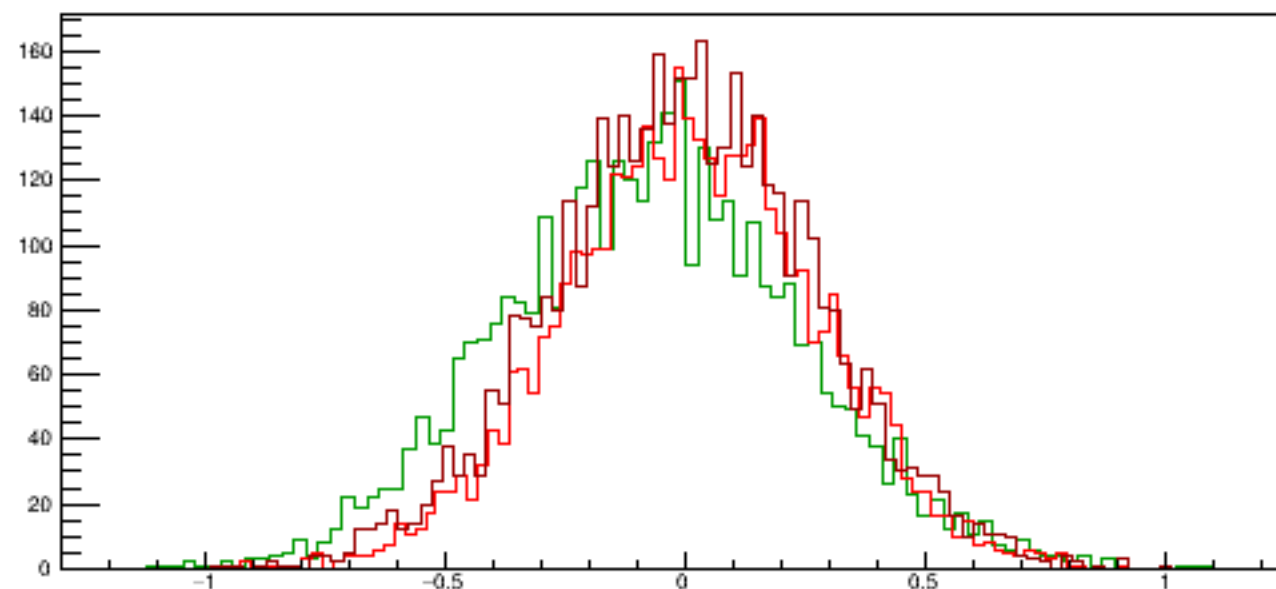
Std Dev: 0.3086 +/- 0.0035

Entries: 4394

Mean: -0.0034 +/- 0.0041

Std Dev: 0.2737 +/- 0.0029

Run 4401 quartetwise, Diffs



## Cycle 5, Sums

Entries: 4192

Mean: 13.7897 +/- 0.0089

Std Dev: 0.5783 +/- 0.0063

Entries: 3797

Mean: 19.2556 +/- 0.0107

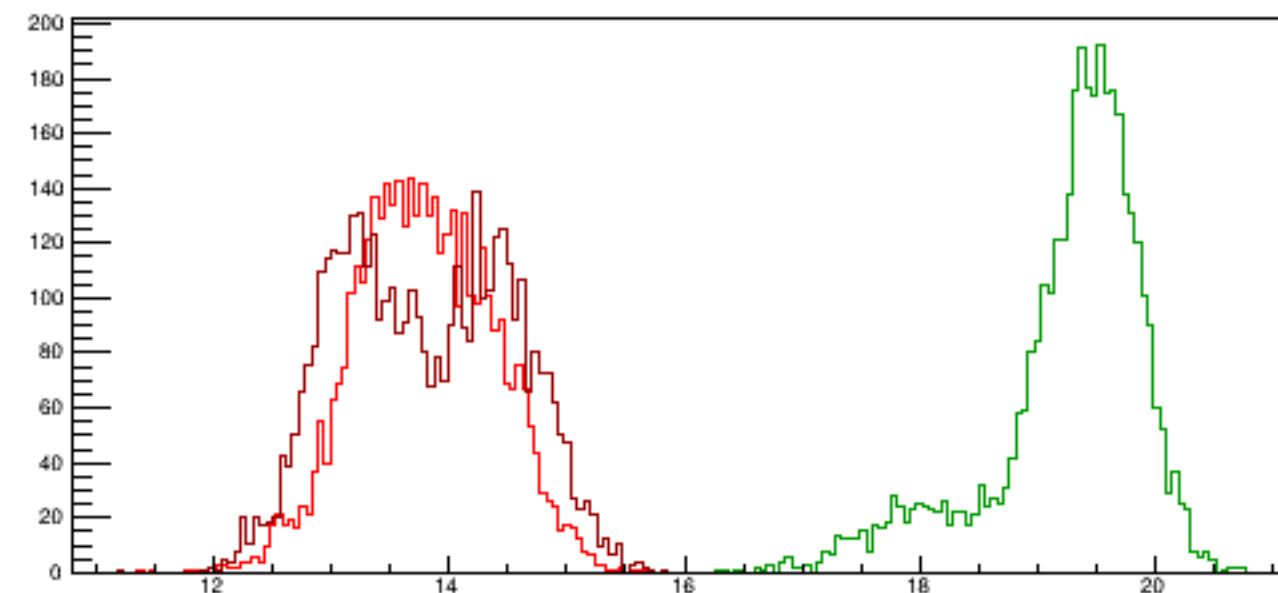
Std Dev: 0.6599 +/- 0.0076

Entries: 4394

Mean: 13.7910 +/- 0.0111

Std Dev: 0.7365 +/- 0.0079

Run 4401 quartetwise, Sums



## Cycle 5, Asyms

Entries: 4192

Mean: 0.0017 +/- 0.0007

Std Dev: 0.0483 +/- 0.0005

Entries: 3797

Mean: -0.0138 +/- 0.0009

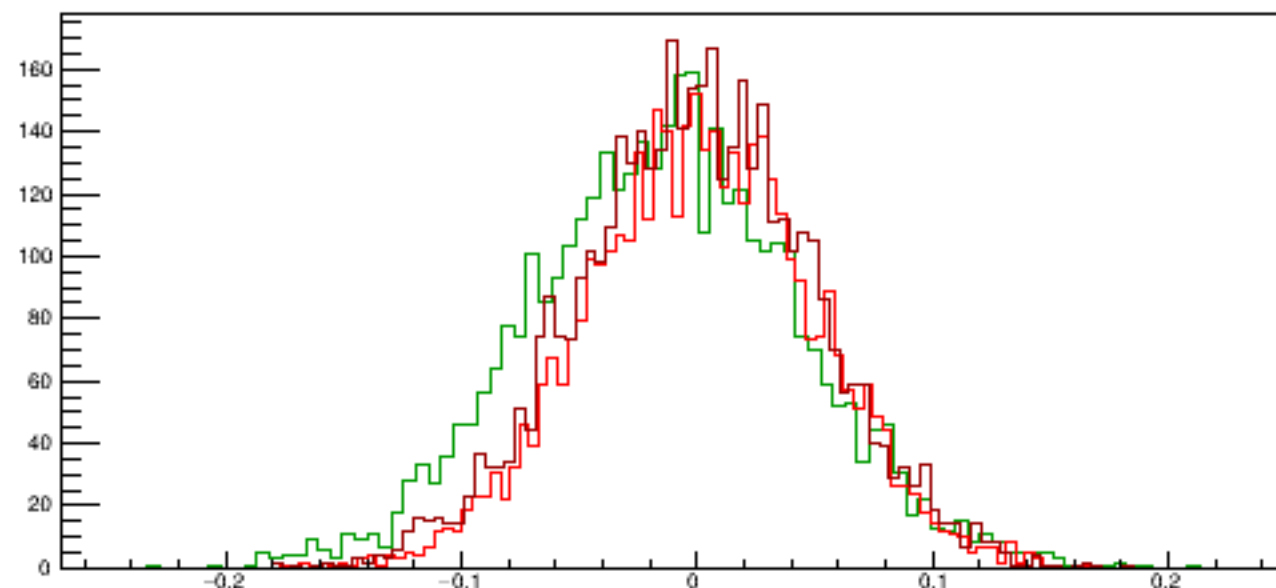
Std Dev: 0.0575 +/- 0.0007

Entries: 4394

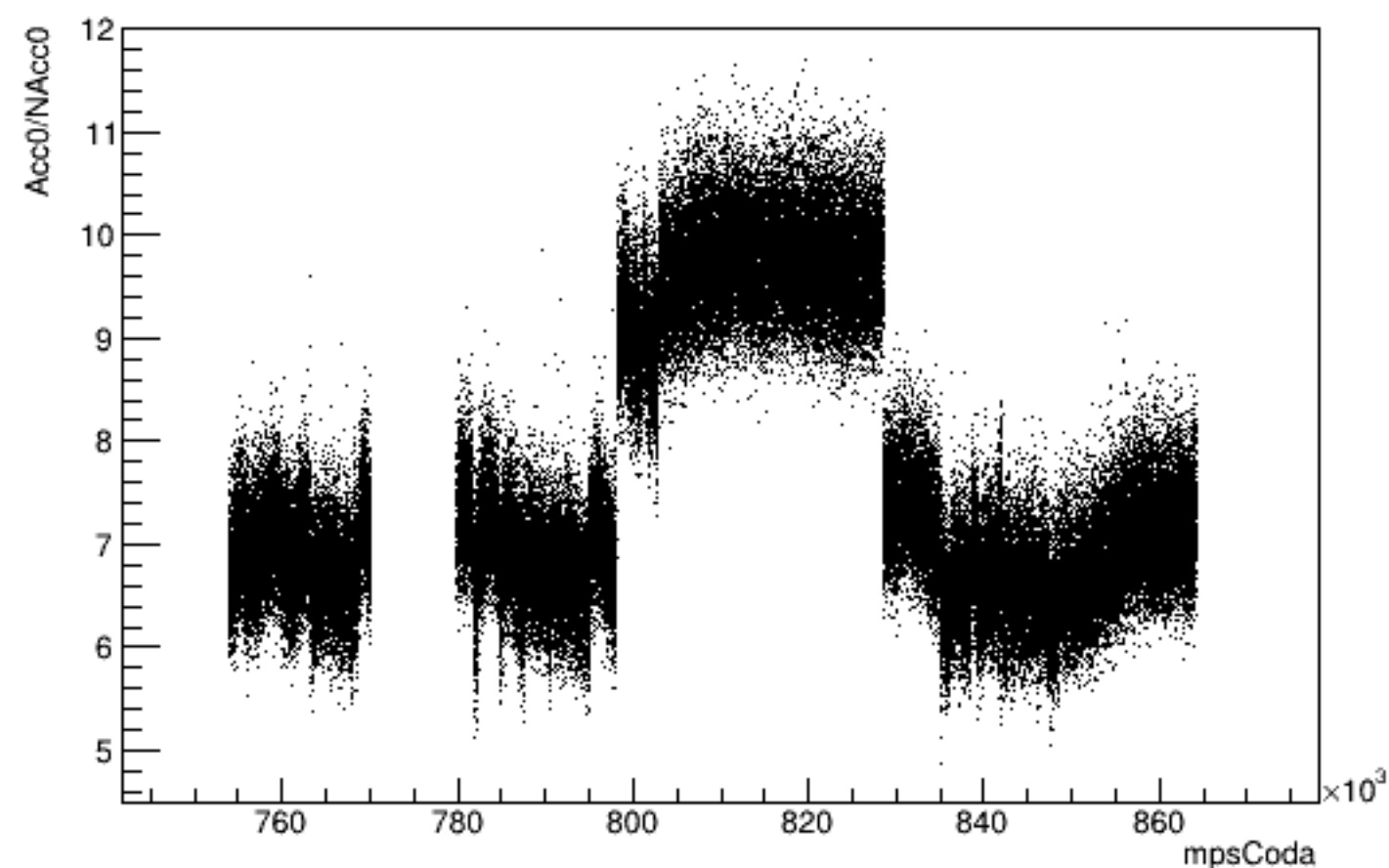
Mean: -0.0006 +/- 0.0008

Std Dev: 0.0501 +/- 0.0005

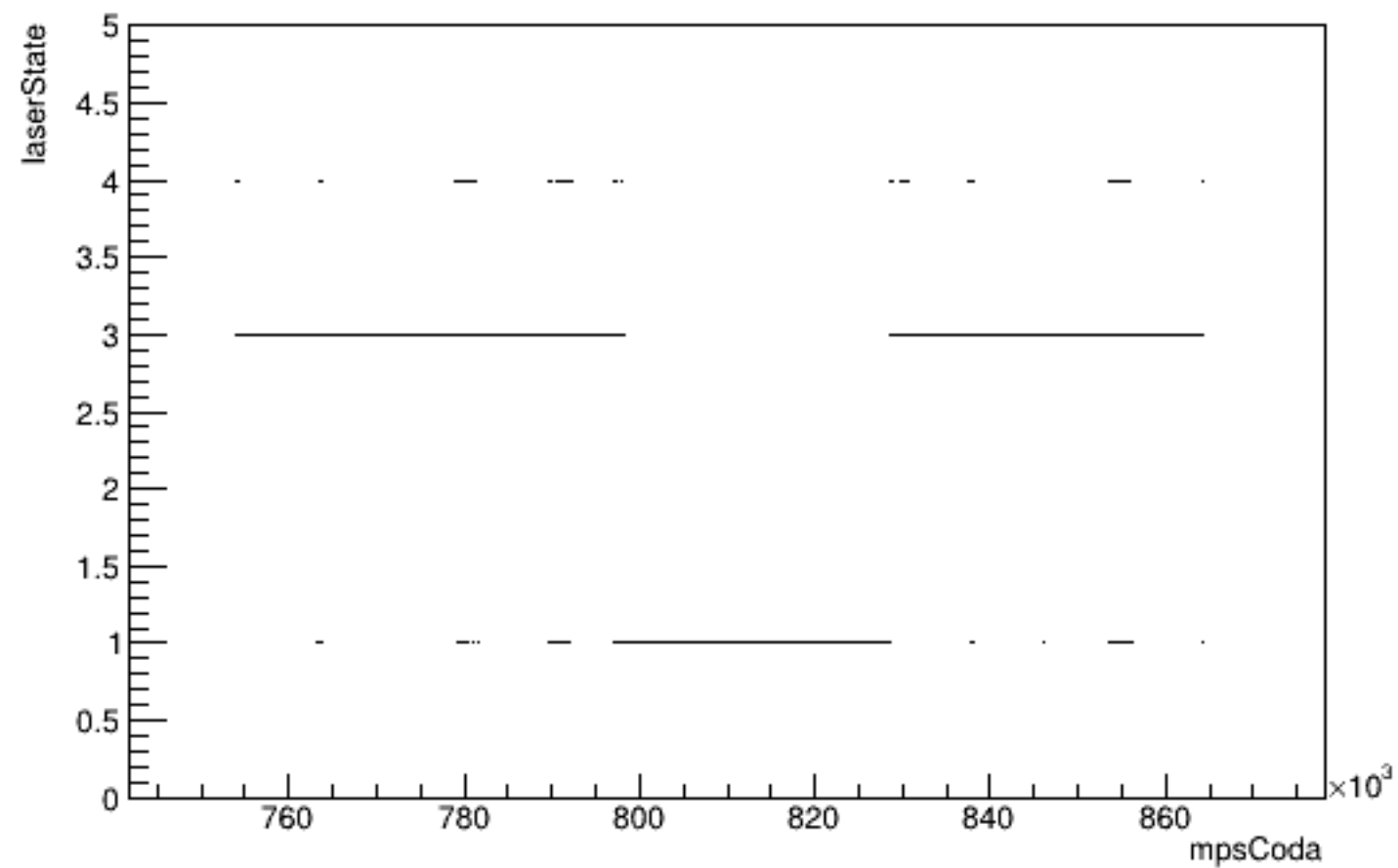
Run 4401 quartetwise, Asyms



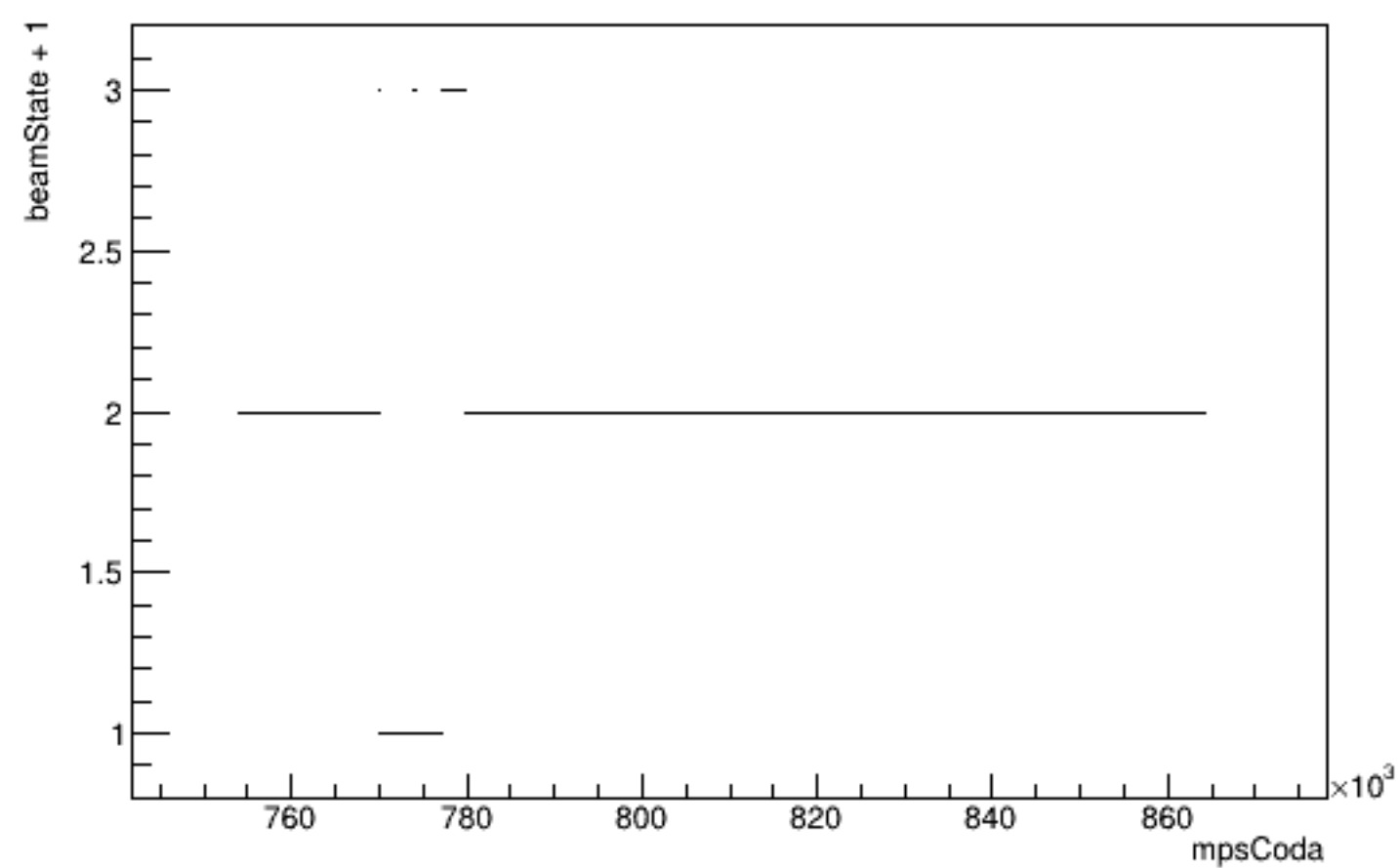
Acc0/NAcc0:mpsCoda (mpsCoda>=753969 && mpsCoda<=864208 && beamState==1)



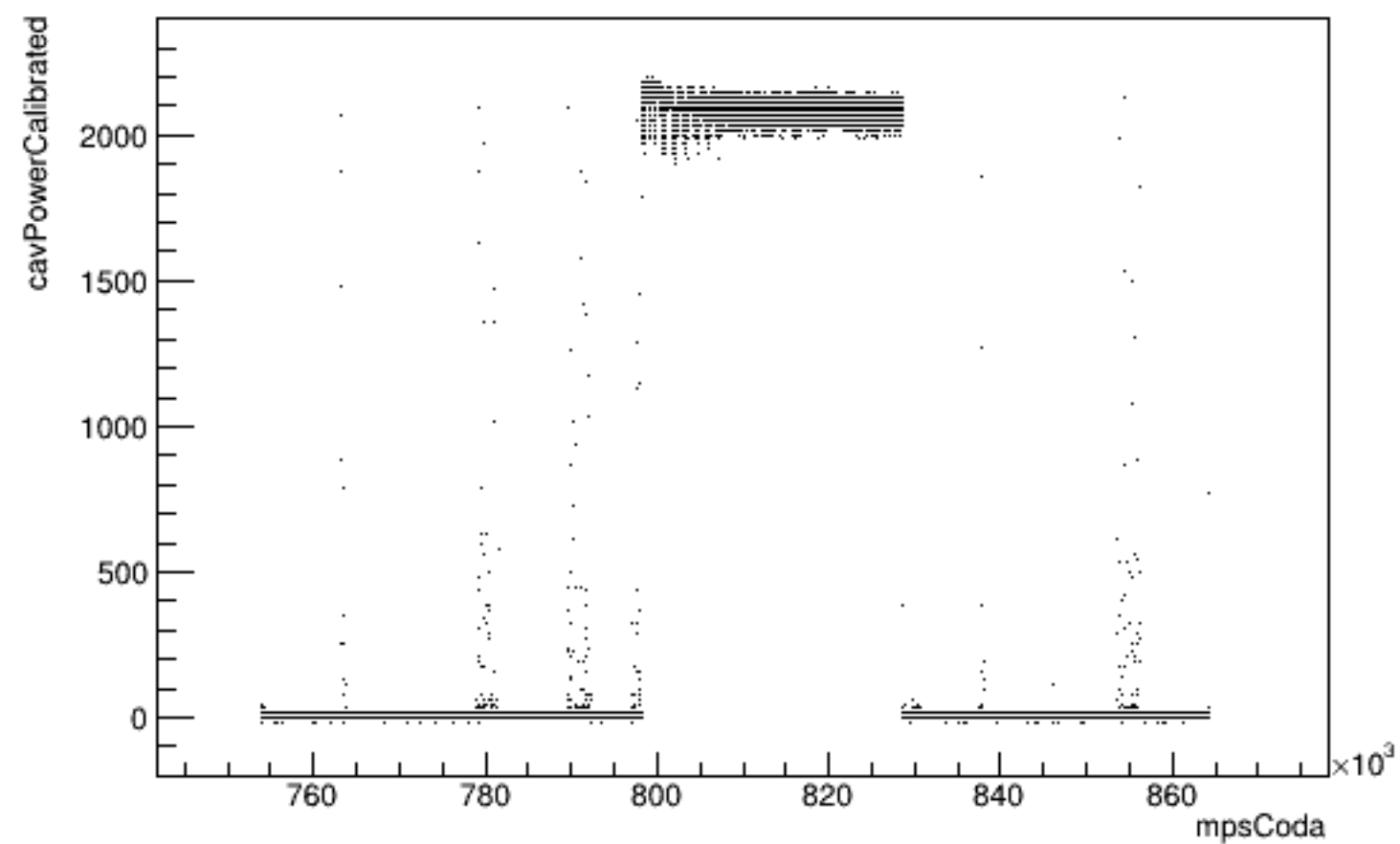
laserState:mpsCoda {mpsCoda&gt;=753969 &amp;&amp; mpsCoda&lt;=864208}



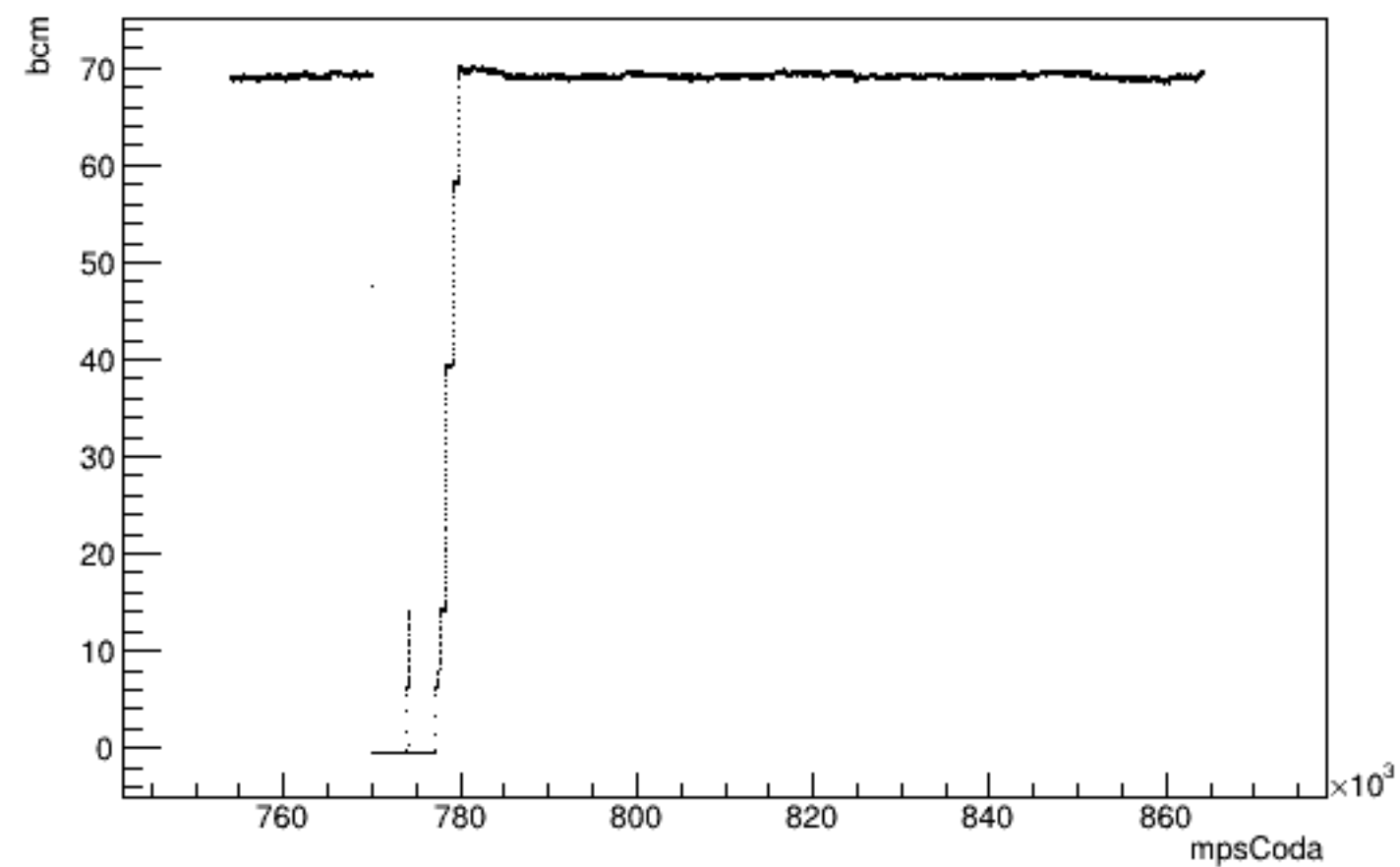
beamState + 1:mpsCoda {mpsCoda&gt;=753969 &amp;&amp; mpsCoda&lt;=864208}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=753969 &amp;&amp; mpsCoda&lt;=864208}



bcm:mpsCoda {mpsCoda&gt;=753969 &amp;&amp; mpsCoda&lt;=864208}



## Cycle 6, Diffs

Entries: 4394

Mean: -0.0034 +/- 0.0041

Std Dev: 0.2737 +/- 0.0029

Entries: 3448

Mean: -0.0683 +/- 0.0052

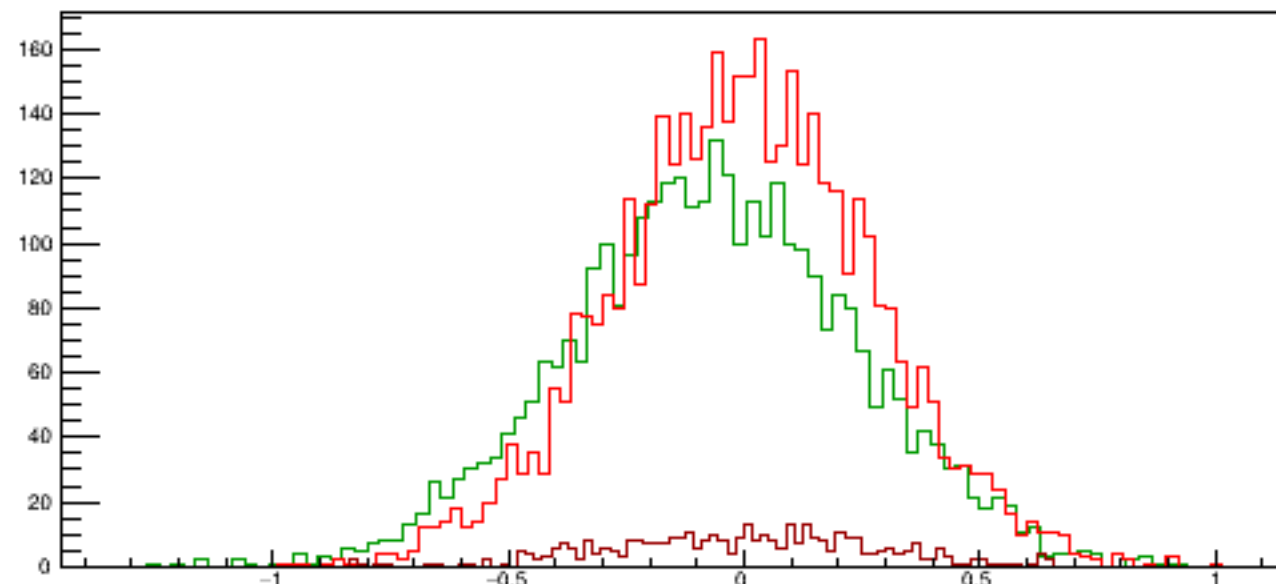
Std Dev: 0.3056 +/- 0.0037

Entries: 378

Mean: -0.0069 +/- 0.0145

Std Dev: 0.2814 +/- 0.0102

Run 4401 quartetwise, Diffs



## Cycle 6, Sums

Entries: 4394

Mean: 13.7910 +/- 0.0111

Std Dev: 0.7365 +/- 0.0079

Entries: 3448

Mean: 19.5226 +/- 0.0069

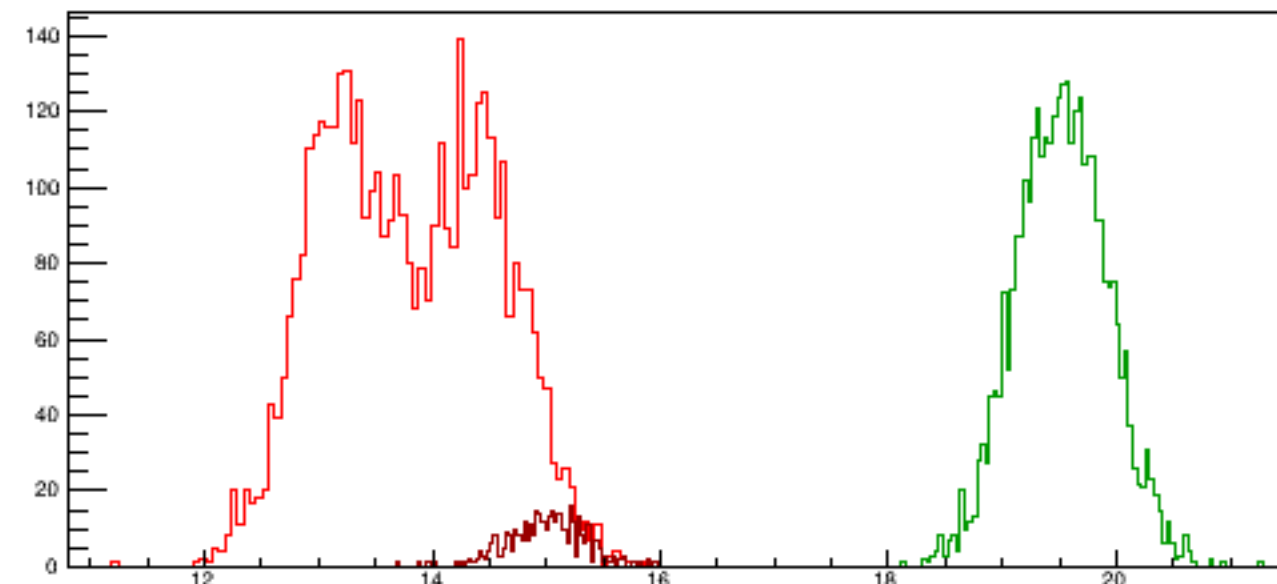
Std Dev: 0.4025 +/- 0.0048

Entries: 378

Mean: 15.0008 +/- 0.0171

Std Dev: 0.3332 +/- 0.0121

Run 4401 quartetwise, Sums



## Cycle 6, Asyms

Entries: 4394

Mean: -0.0007 +/- 0.0008

Std Dev: 0.0534 +/- 0.0006

Entries: 3448

Mean: -0.0134 +/- 0.0010

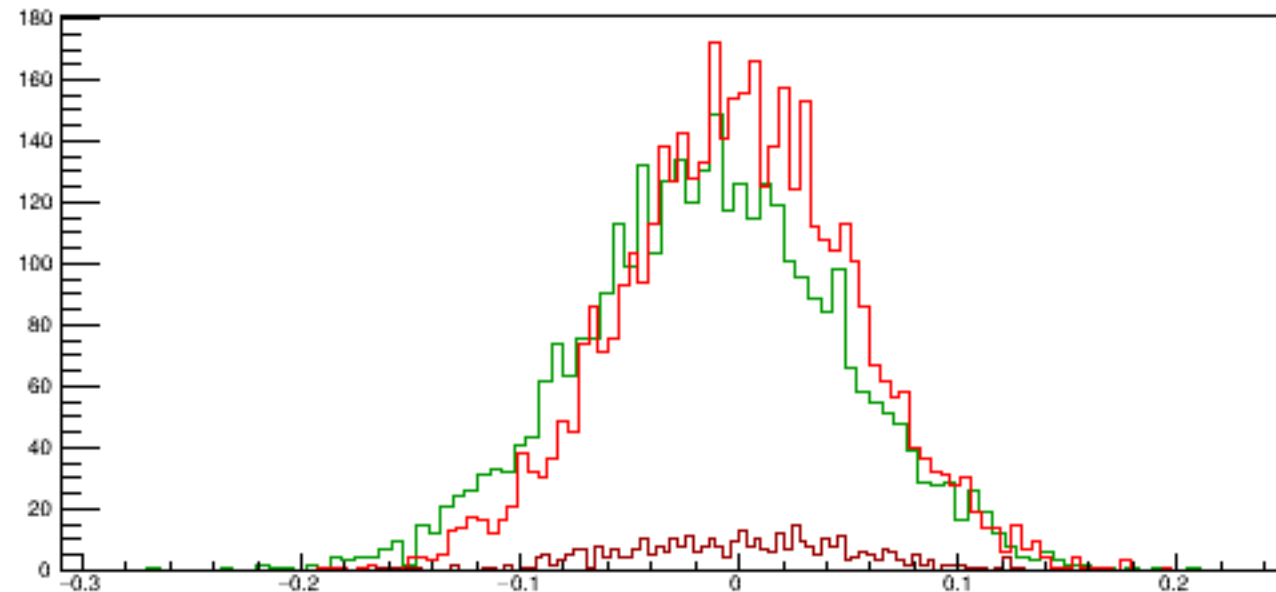
Std Dev: 0.0600 +/- 0.0007

Entries: 378

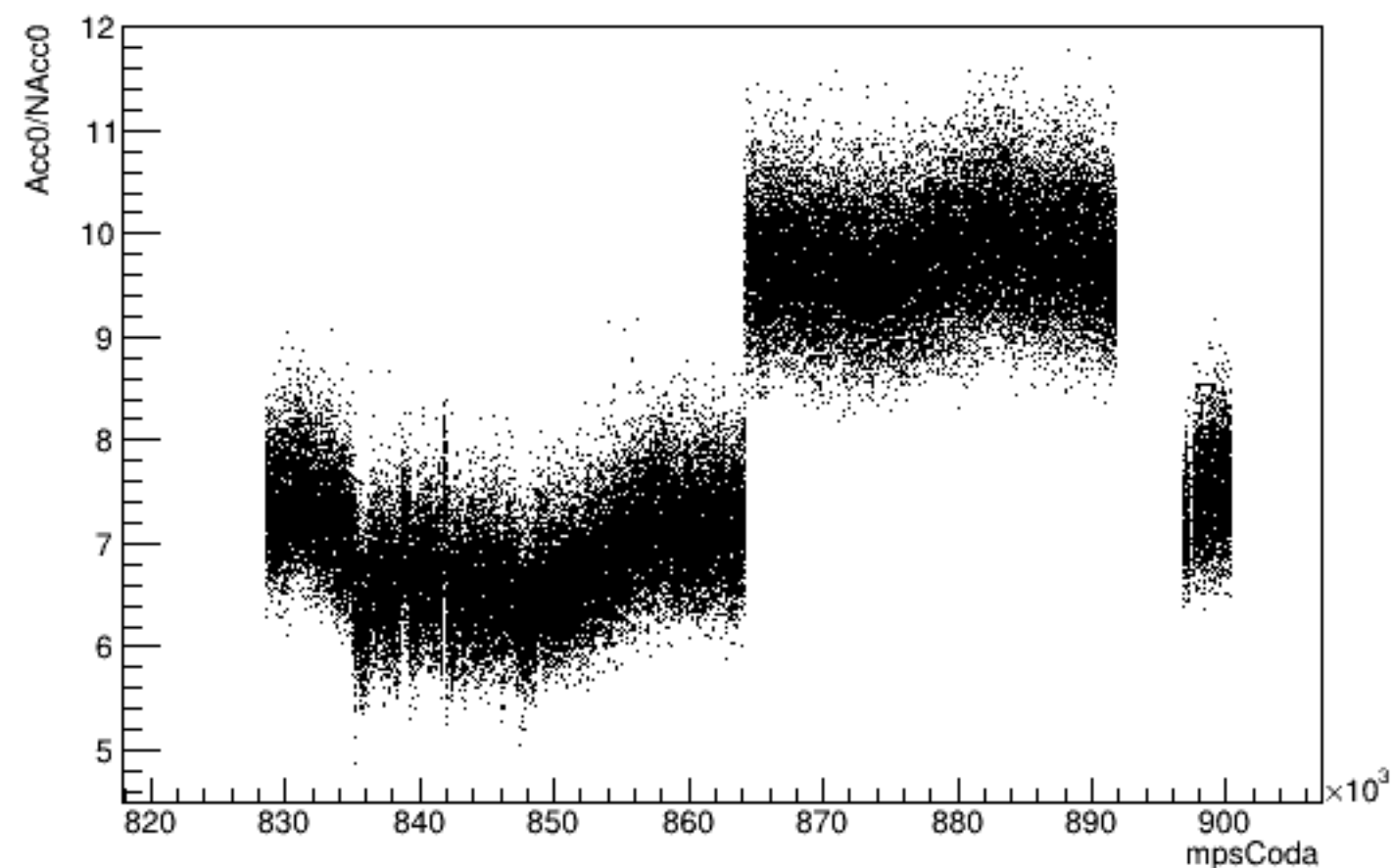
Mean: -0.0013 +/- 0.0028

Std Dev: 0.0549 +/- 0.0020

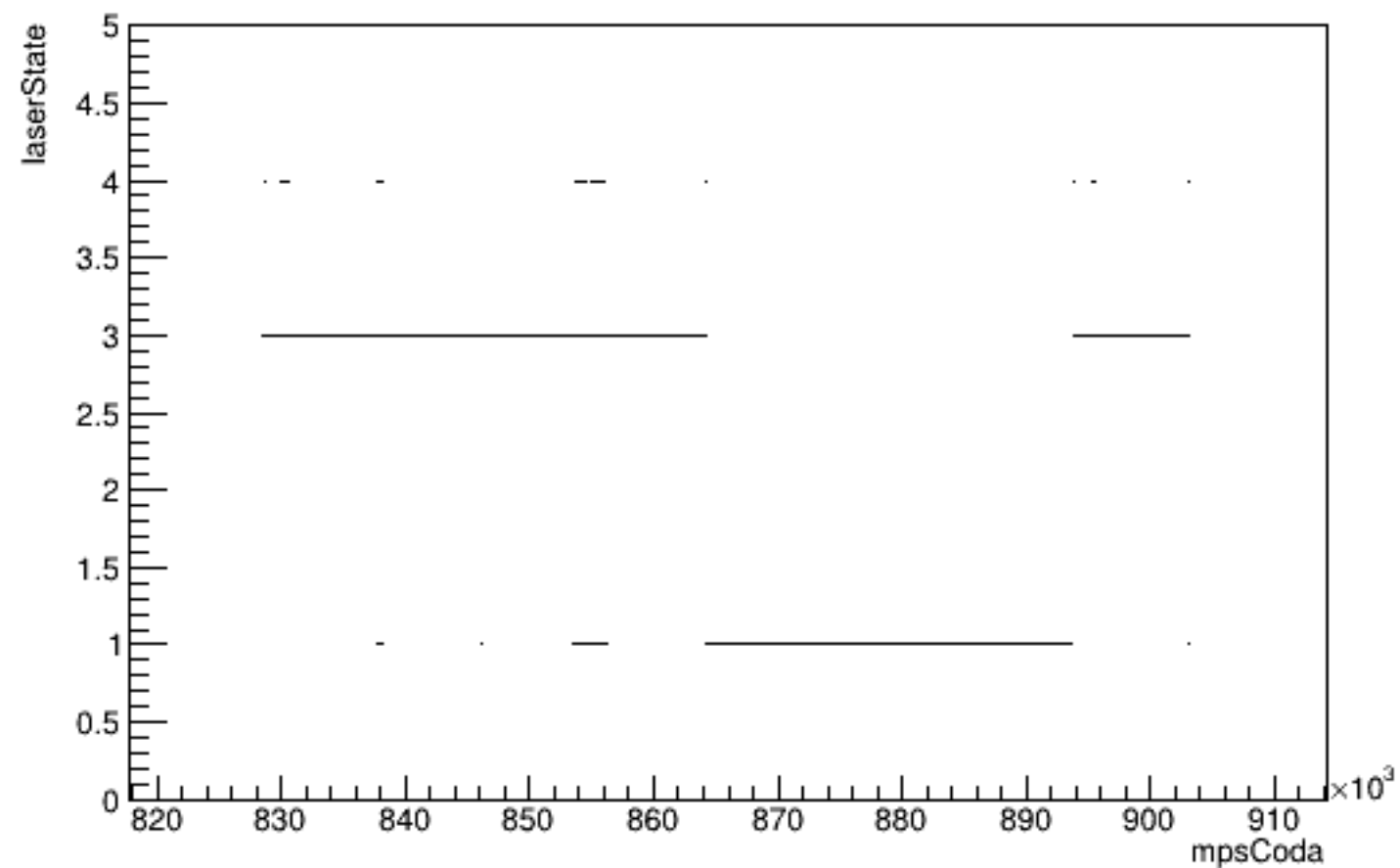
Run 4401 quartetwise, Asyms



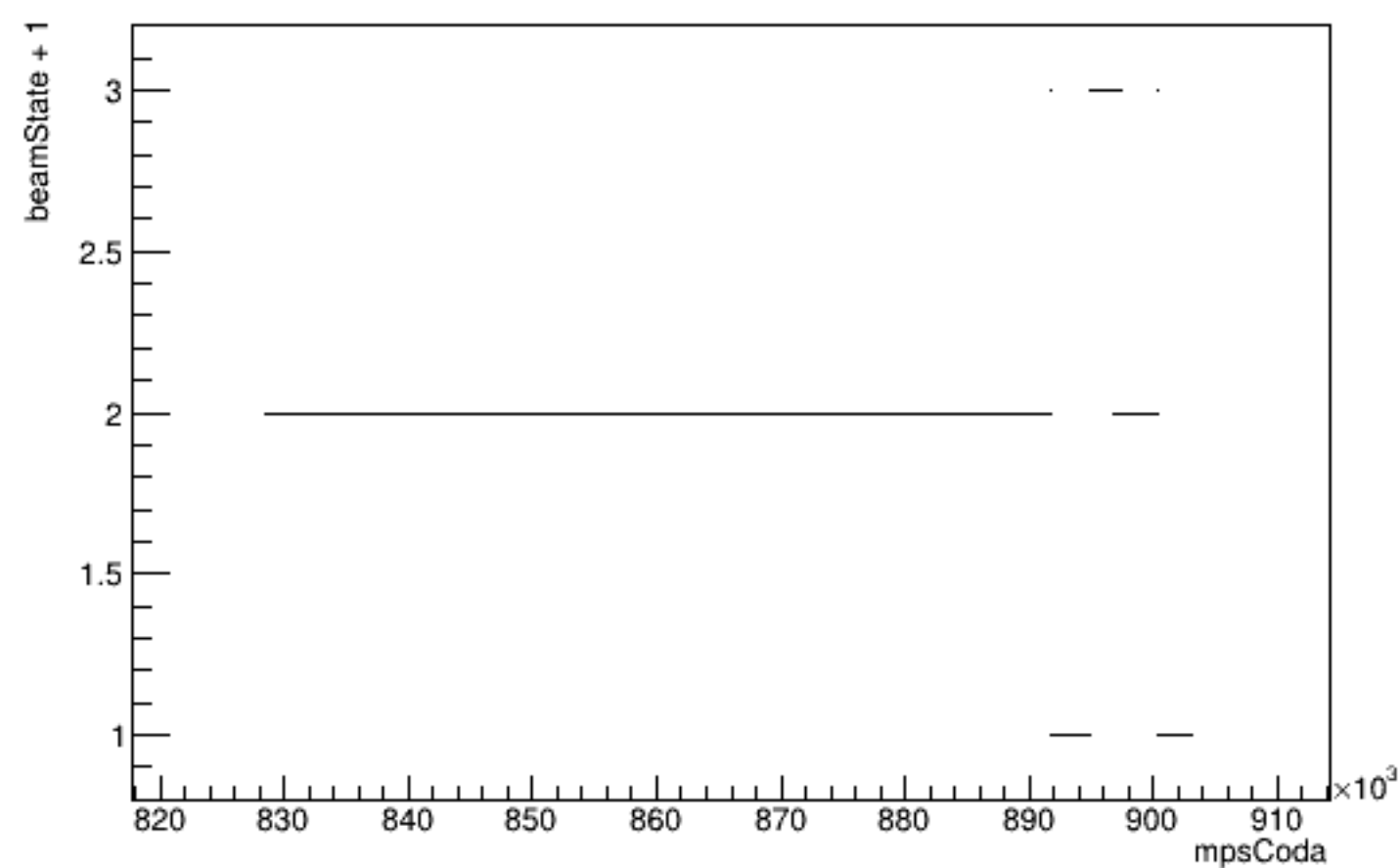
Acc0/NAcc0:mpsCoda (mpsCoda>=828505 && mpsCoda<=903128 && beamState==1)



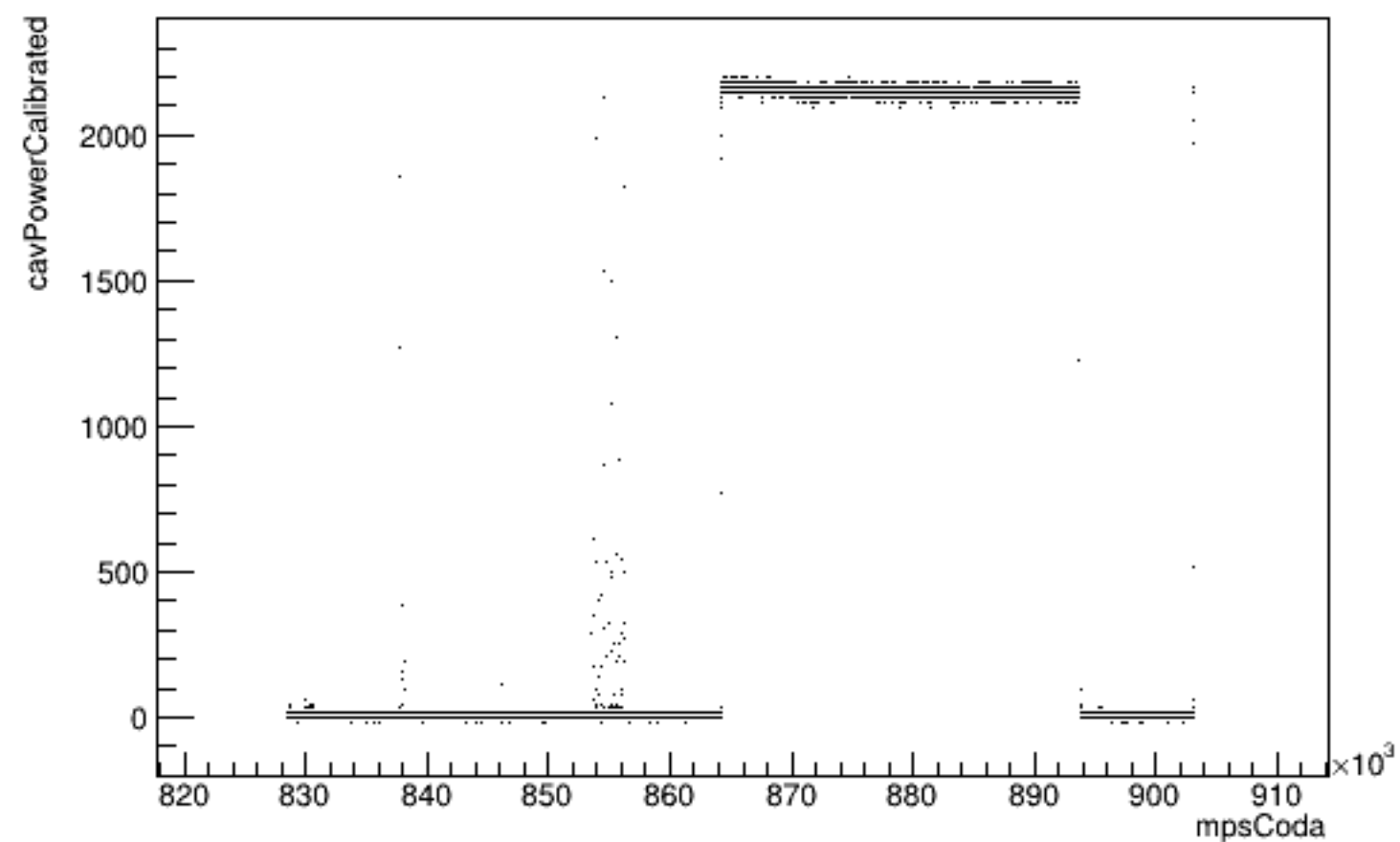
laserState:mpsCoda {mpsCoda&gt;=828505 &amp;&amp; mpsCoda&lt;=903128}



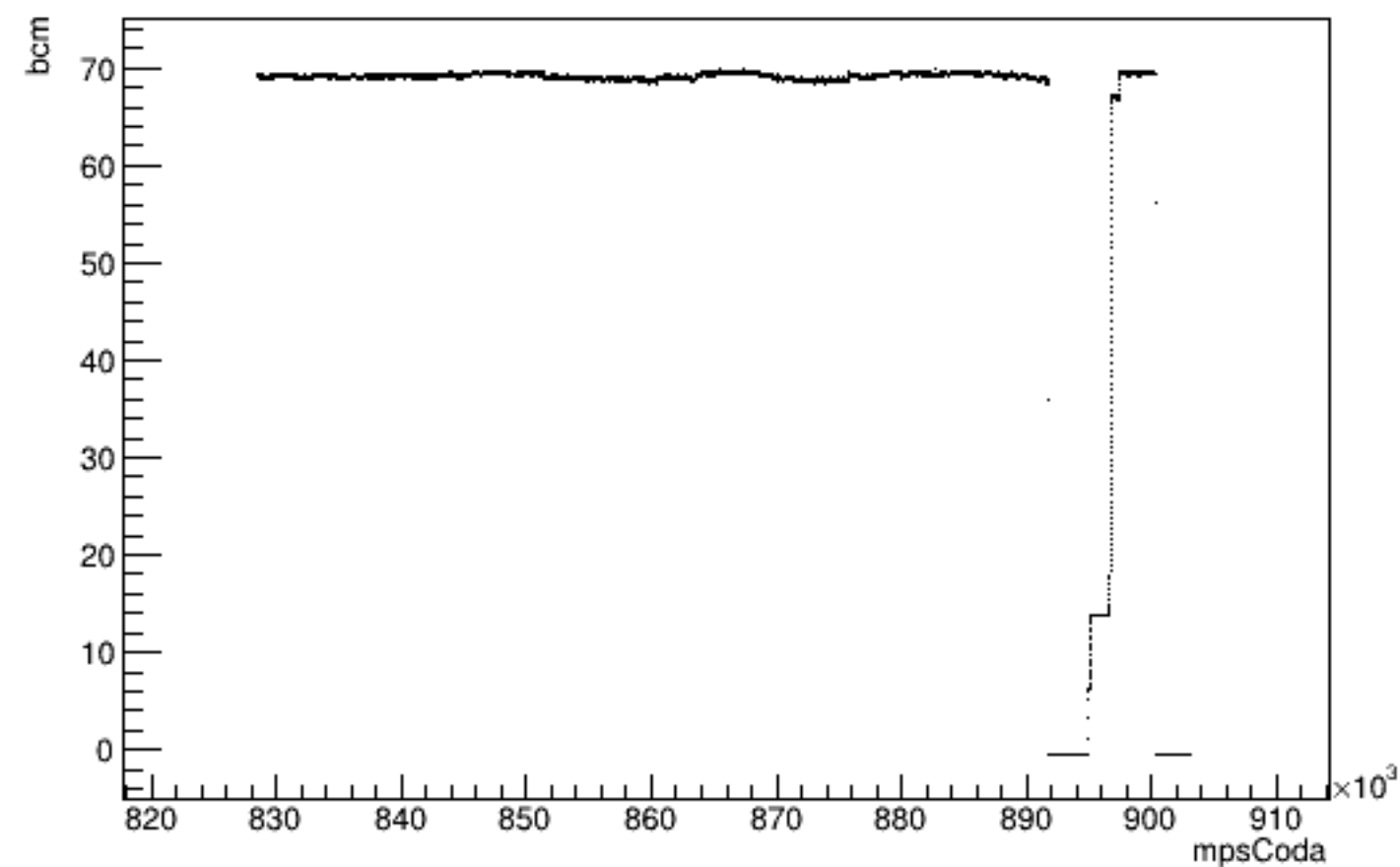
beamState + 1:mpsCoda {mpsCoda&gt;=828505 &amp;&amp; mpsCoda&lt;=903128}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=828505 &amp;&amp; mpsCoda&lt;=903128}



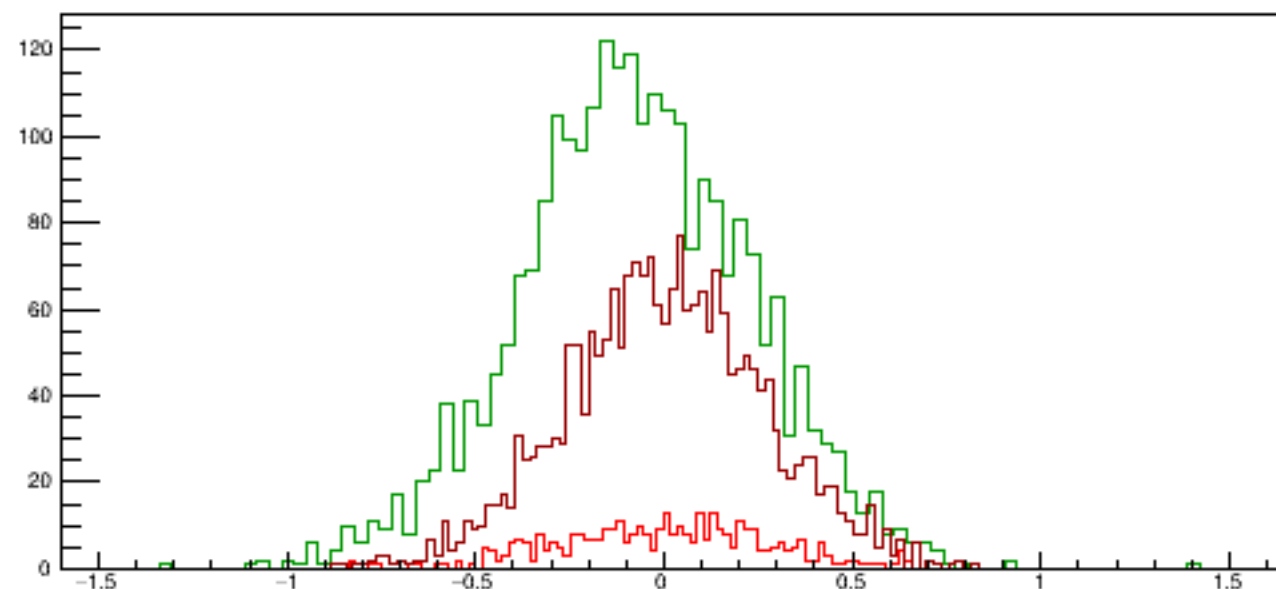
bcm:mpsCoda {mpsCoda&gt;=828505 &amp;&amp; mpsCoda&lt;=903128}



## Cycle 7, Diffs

| Entries: 378               | Entries: 2600              | Entries: 2229              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0069 +/- 0.0145   | Mean: -0.0765 +/- 0.0060   | Mean: 0.0023 +/- 0.0056    |
| Std Dev: 0.2814 +/- 0.0102 | Std Dev: 0.3068 +/- 0.0043 | Std Dev: 0.2638 +/- 0.0040 |

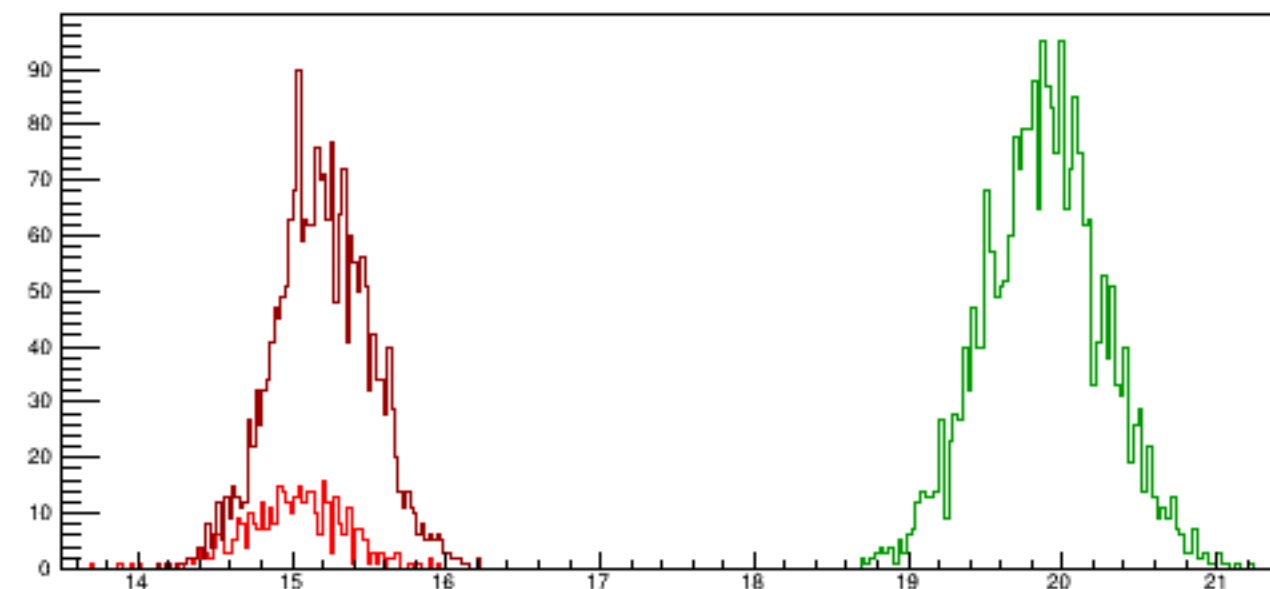
Run 4401 quartetwise, Diffs



## Cycle 7, Sums

| Entries: 378               | Entries: 2600              | Entries: 2229              |
|----------------------------|----------------------------|----------------------------|
| Mean: 15.0008 +/- 0.0171   | Mean: 19.8822 +/- 0.0076   | Mean: 15.1942 +/- 0.0067   |
| Std Dev: 0.3332 +/- 0.0121 | Std Dev: 0.3898 +/- 0.0054 | Std Dev: 0.3141 +/- 0.0047 |

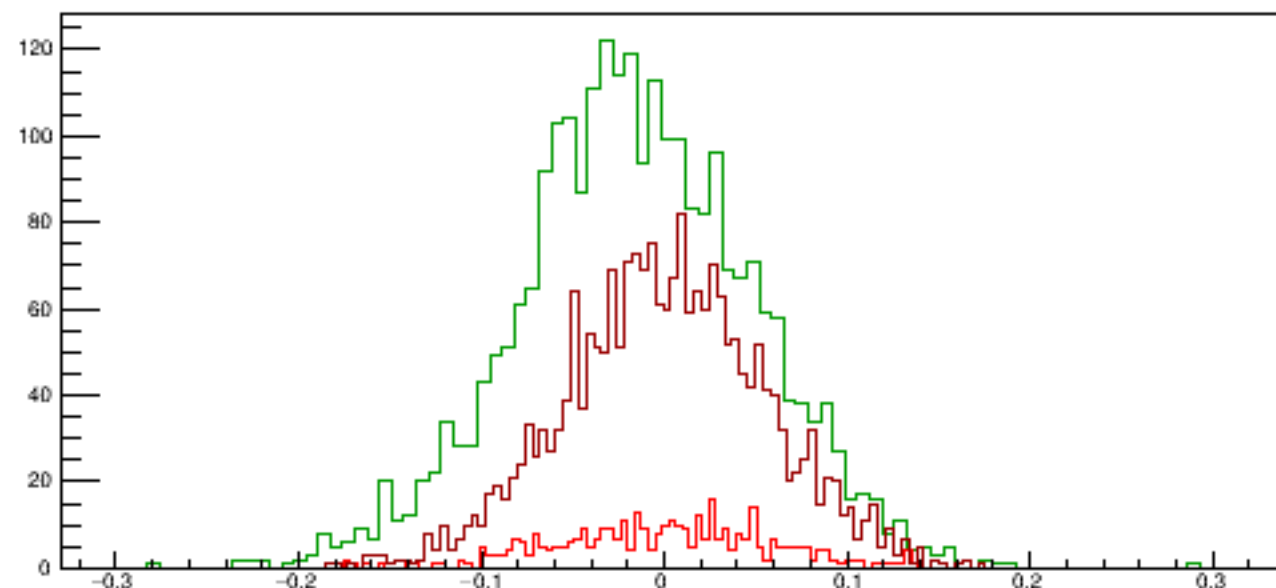
Run 4401 quartetwise, Sums



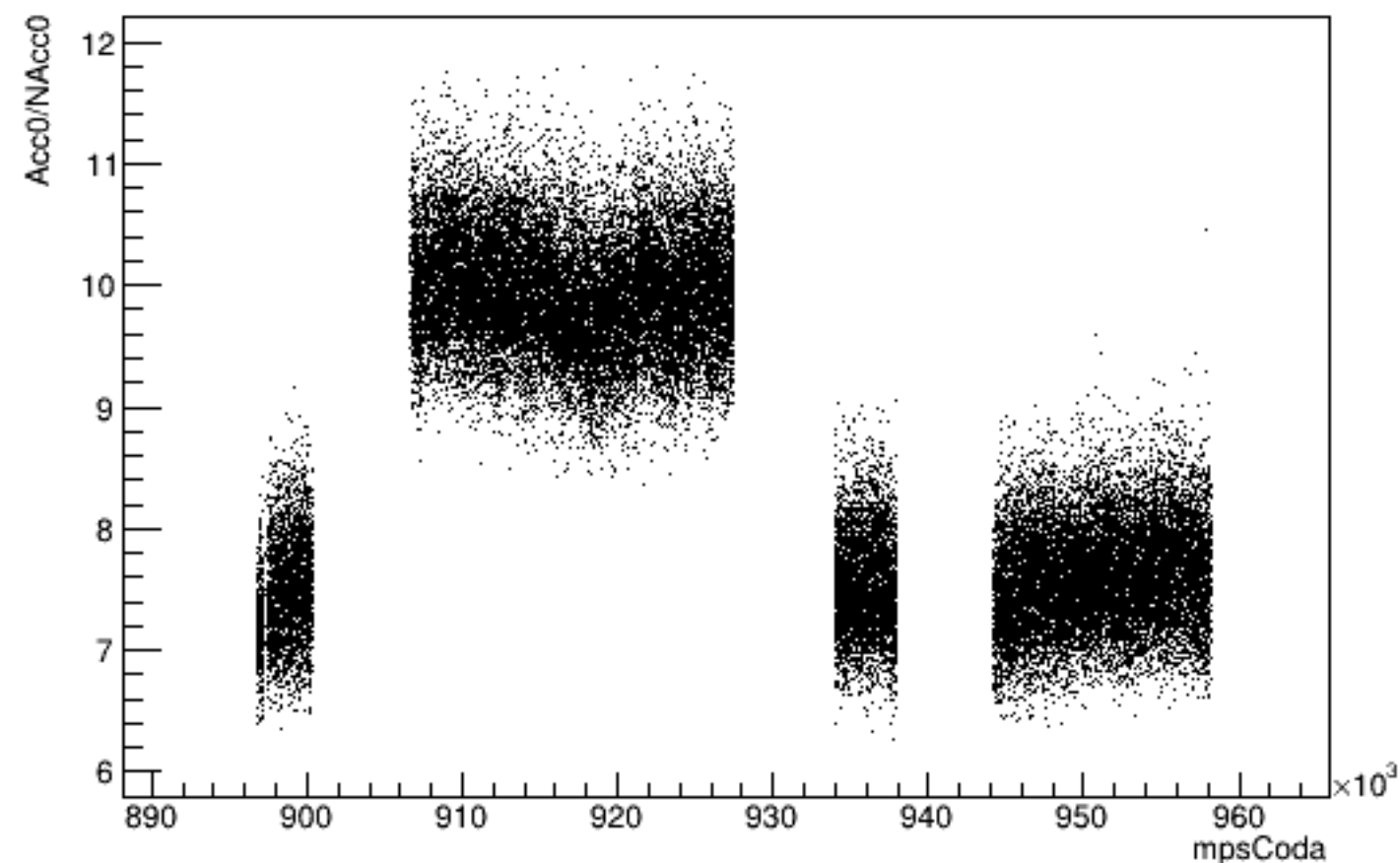
## Cycle 7, Asyms

| Entries: 378               | Entries: 2600              | Entries: 2229              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0014 +/- 0.0030   | Mean: -0.0161 +/- 0.0013   | Mean: 0.0005 +/- 0.0012    |
| Std Dev: 0.0588 +/- 0.0021 | Std Dev: 0.0646 +/- 0.0009 | Std Dev: 0.0551 +/- 0.0008 |

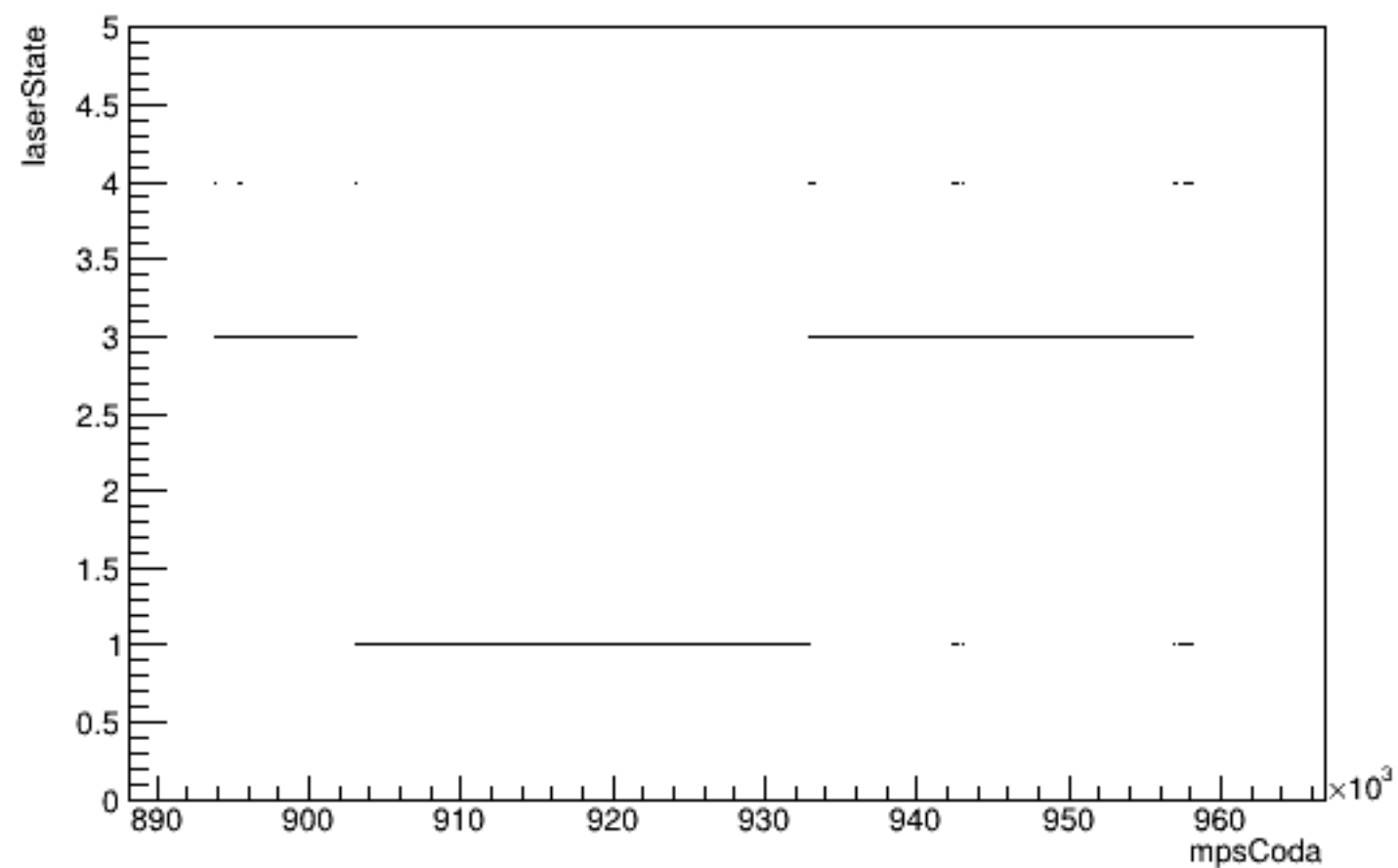
Run 4401 quartetwise, Asyms



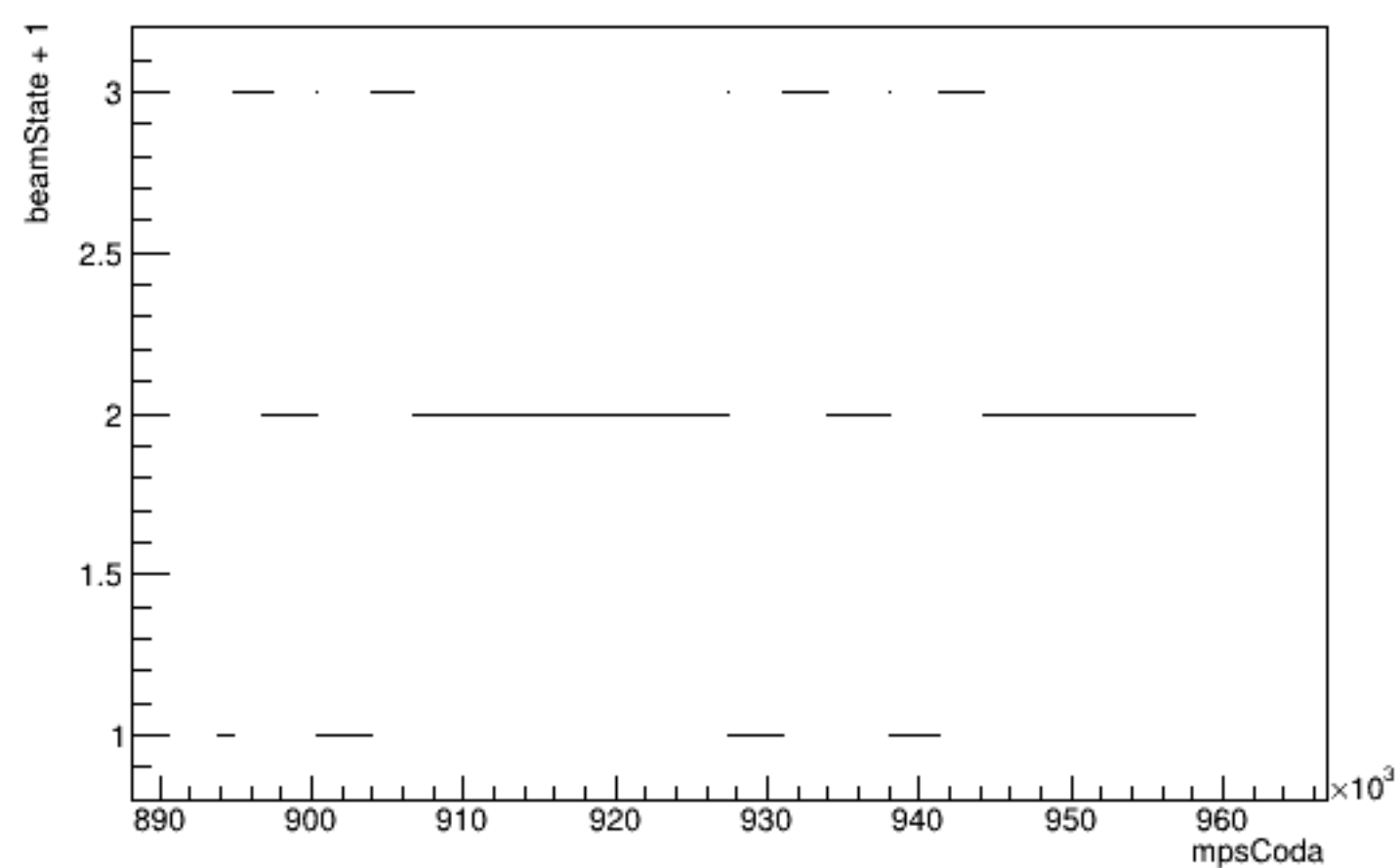
Acc0/NAcc0:mpsCoda (mpsCoda>=893769 && mpsCoda<=958176 && beamState==1)



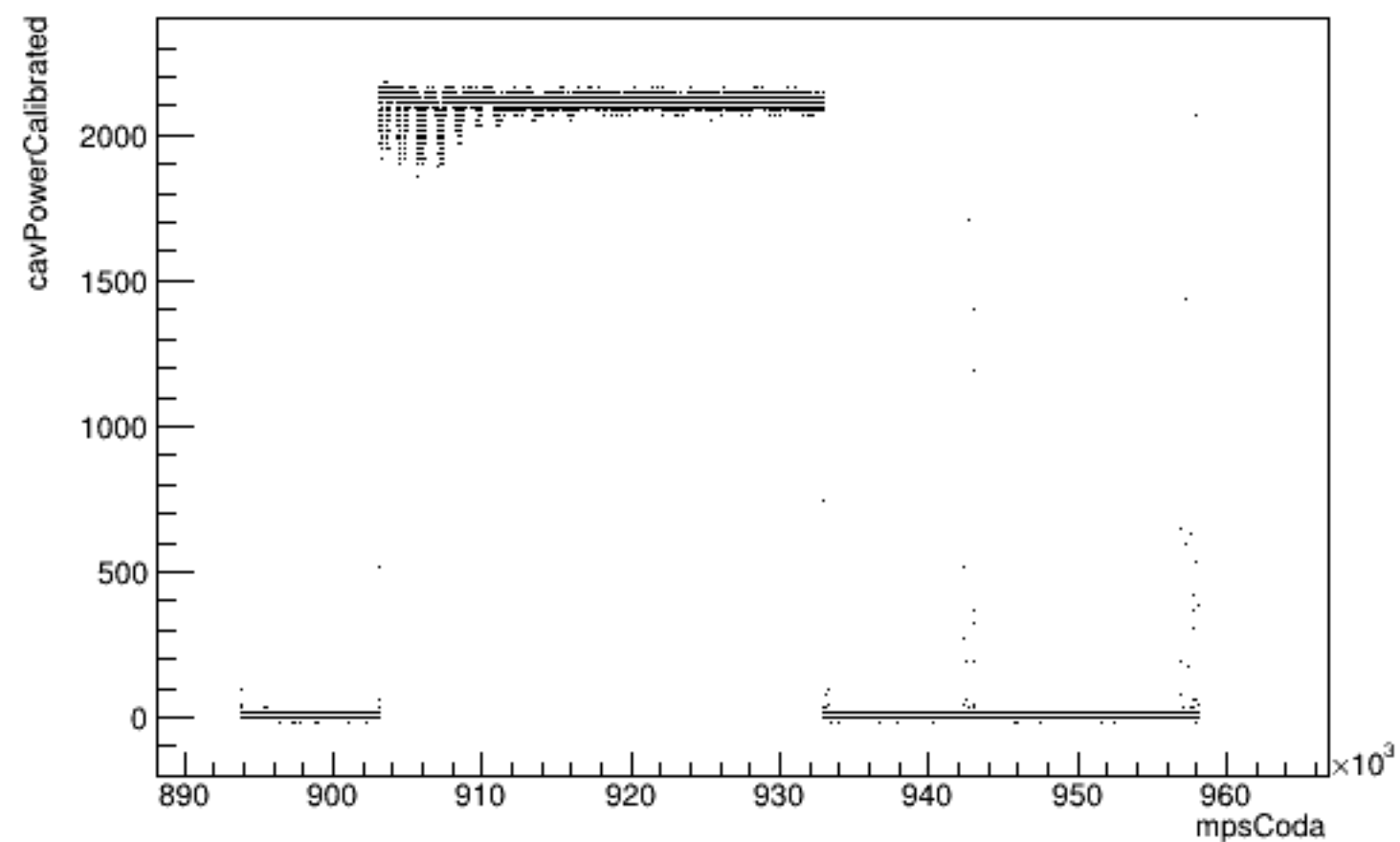
laserState:mpsCoda {mpsCoda&gt;=893769 &amp;&amp; mpsCoda&lt;=958176}



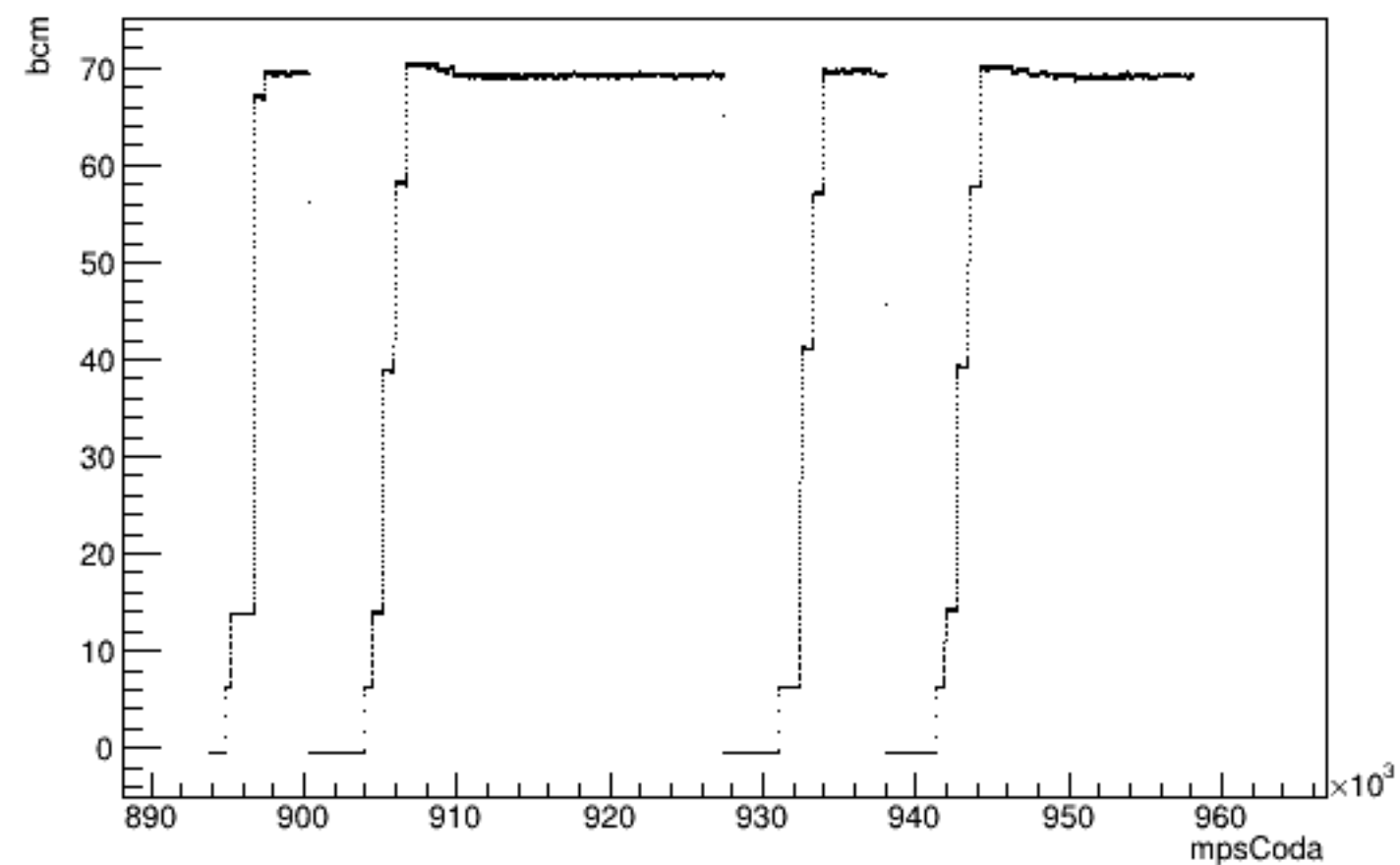
beamState + 1:mpsCoda {mpsCoda&gt;=893769 &amp;&amp; mpsCoda&lt;=958176}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=893769 &amp;&amp; mpsCoda&lt;=958176}



bcm:mpsCoda {mpsCoda&gt;=893769 &amp;&amp; mpsCoda&lt;=958176}



## Cycle 8, Diffs

Entries: 2229

Mean: 0.0023 +/- 0.0056

Std Dev: 0.2638 +/- 0.0040

Entries: 2965

Mean: -0.0678 +/- 0.0056

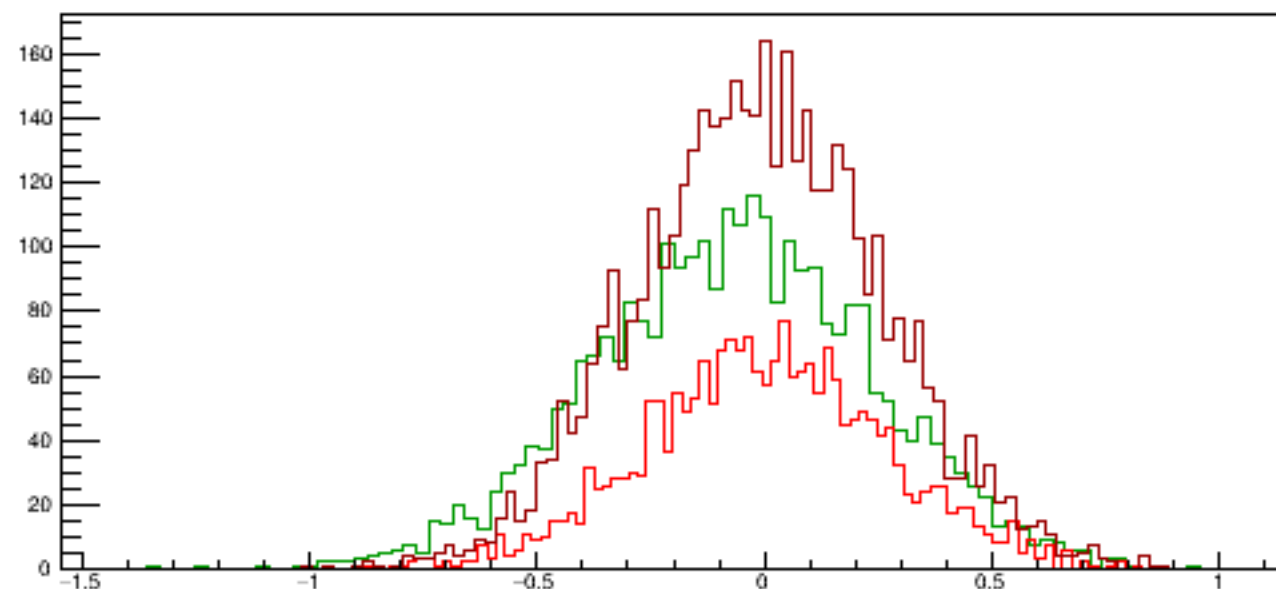
Std Dev: 0.3066 +/- 0.0040

Entries: 4391

Mean: -0.0089 +/- 0.0041

Std Dev: 0.2691 +/- 0.0029

Run 4401 quartetwise, Diffs



## Cycle 8, Sums

Entries: 2229

Mean: 15.1942 +/- 0.0067

Std Dev: 0.3141 +/- 0.0047

Entries: 2965

Mean: 19.8810 +/- 0.0065

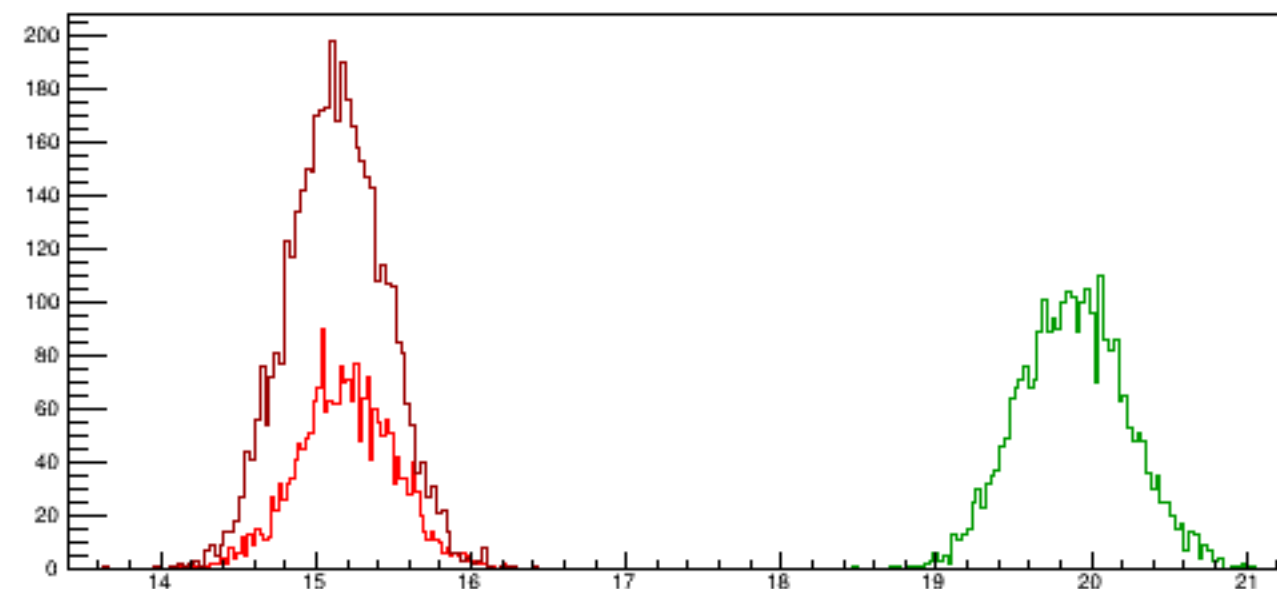
Std Dev: 0.3523 +/- 0.0046

Entries: 4391

Mean: 15.1337 +/- 0.0048

Std Dev: 0.3172 +/- 0.0034

Run 4401 quartetwise, Sums



## Cycle 8, Asyms

Entries: 2229

Mean: 0.0005 +/- 0.0012

Std Dev: 0.0559 +/- 0.0008

Entries: 2965

Mean: -0.0143 +/- 0.0012

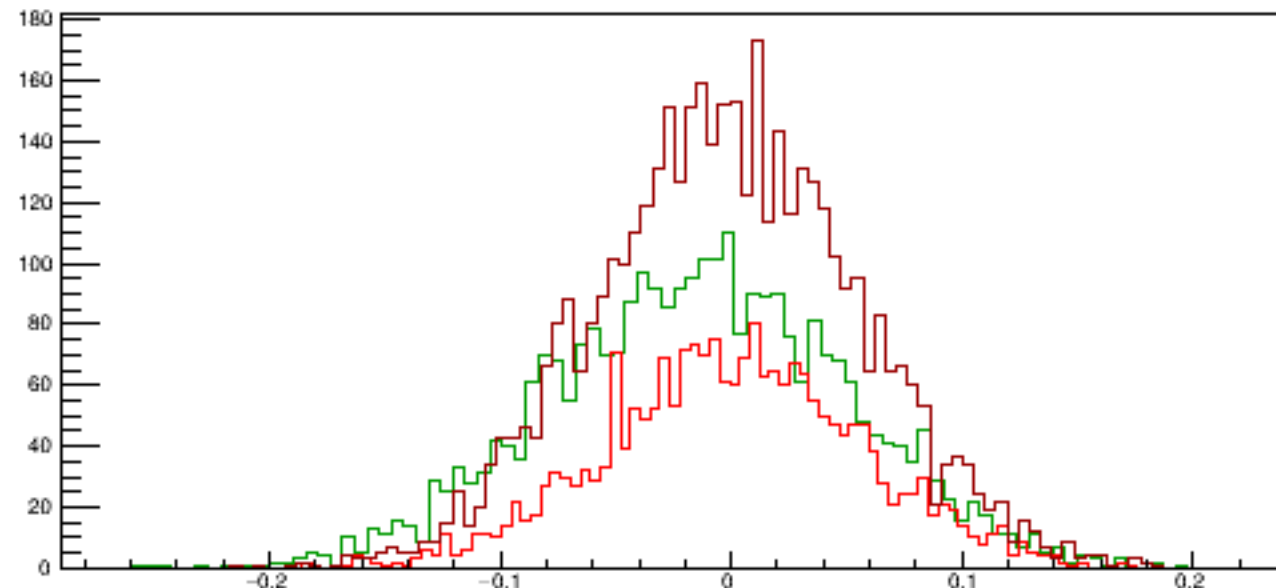
Std Dev: 0.0650 +/- 0.0008

Entries: 4391

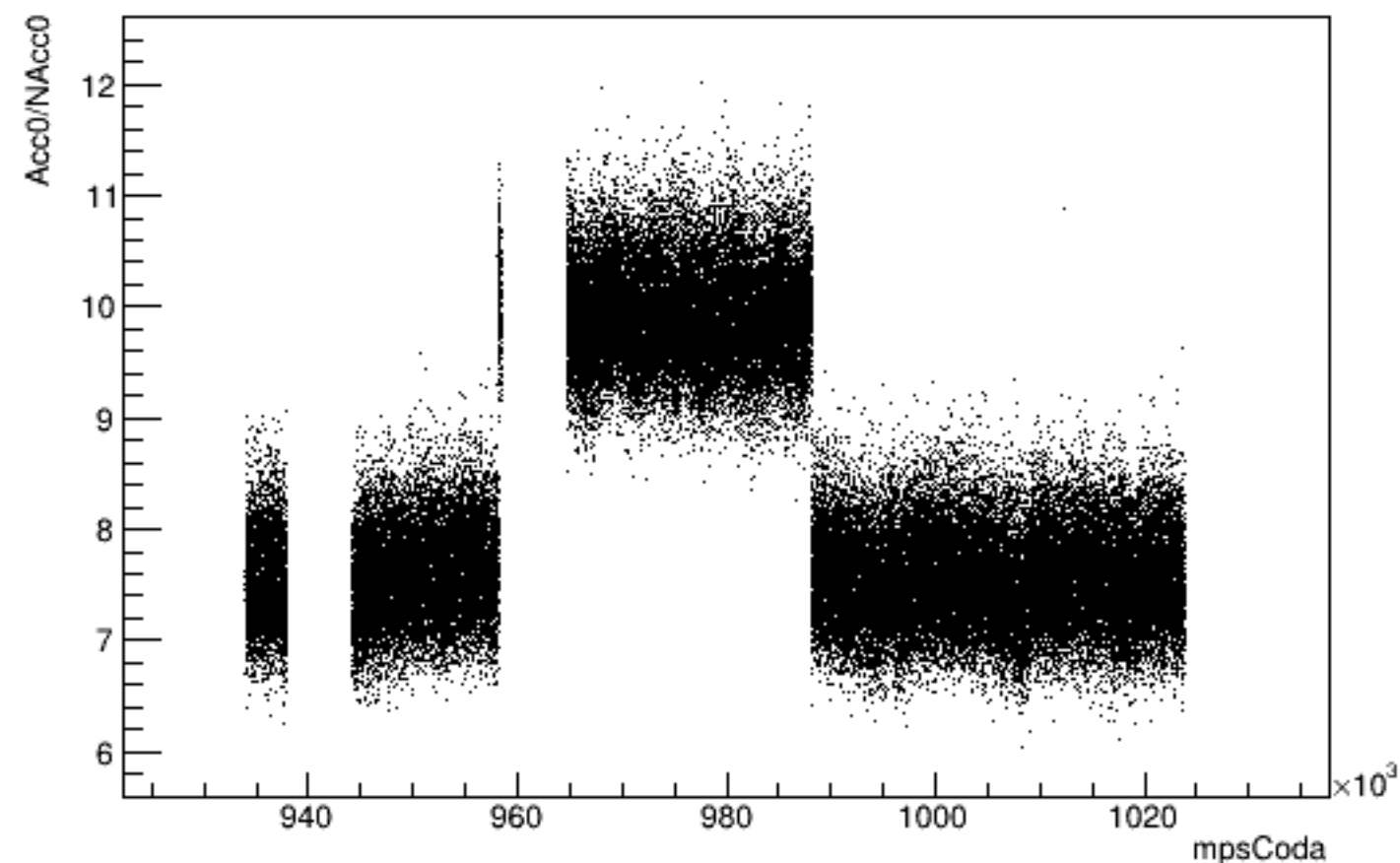
Mean: -0.0019 +/- 0.0009

Std Dev: 0.0570 +/- 0.0006

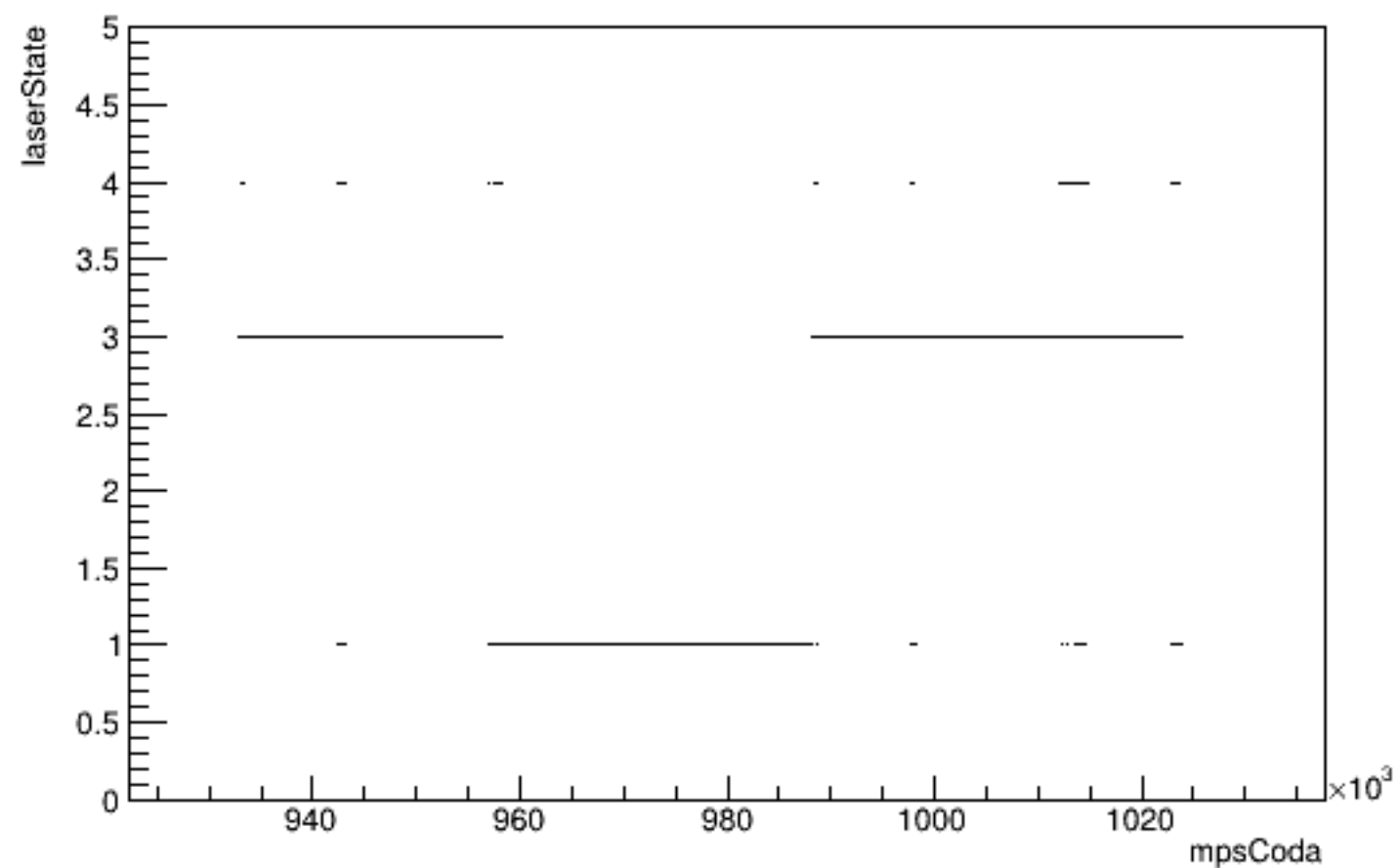
Run 4401 quartetwise, Asyms



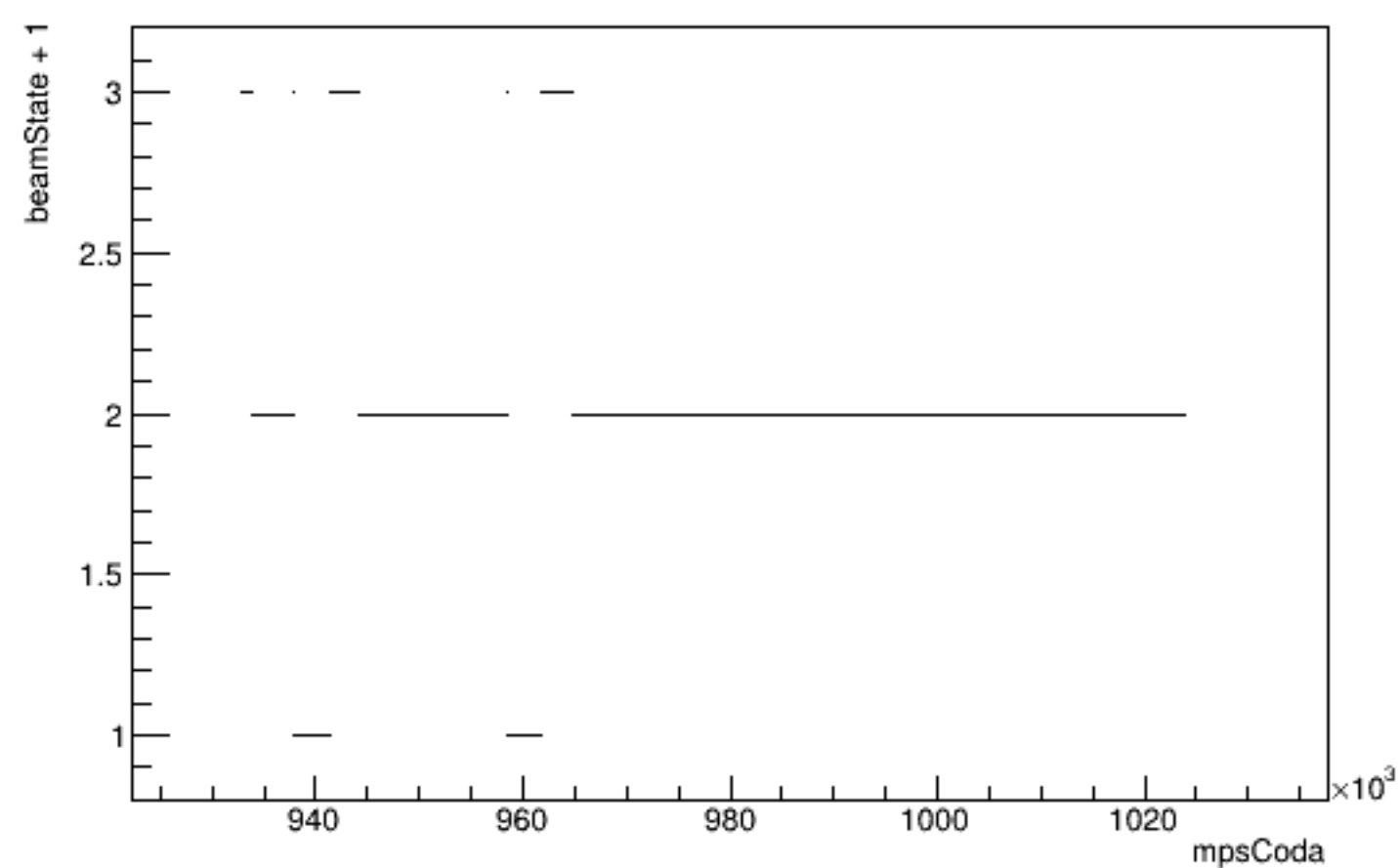
Acc0/NAcc0:mpsCoda (mpsCoda>=932929 && mpsCoda<=1023832 && beamState==1)



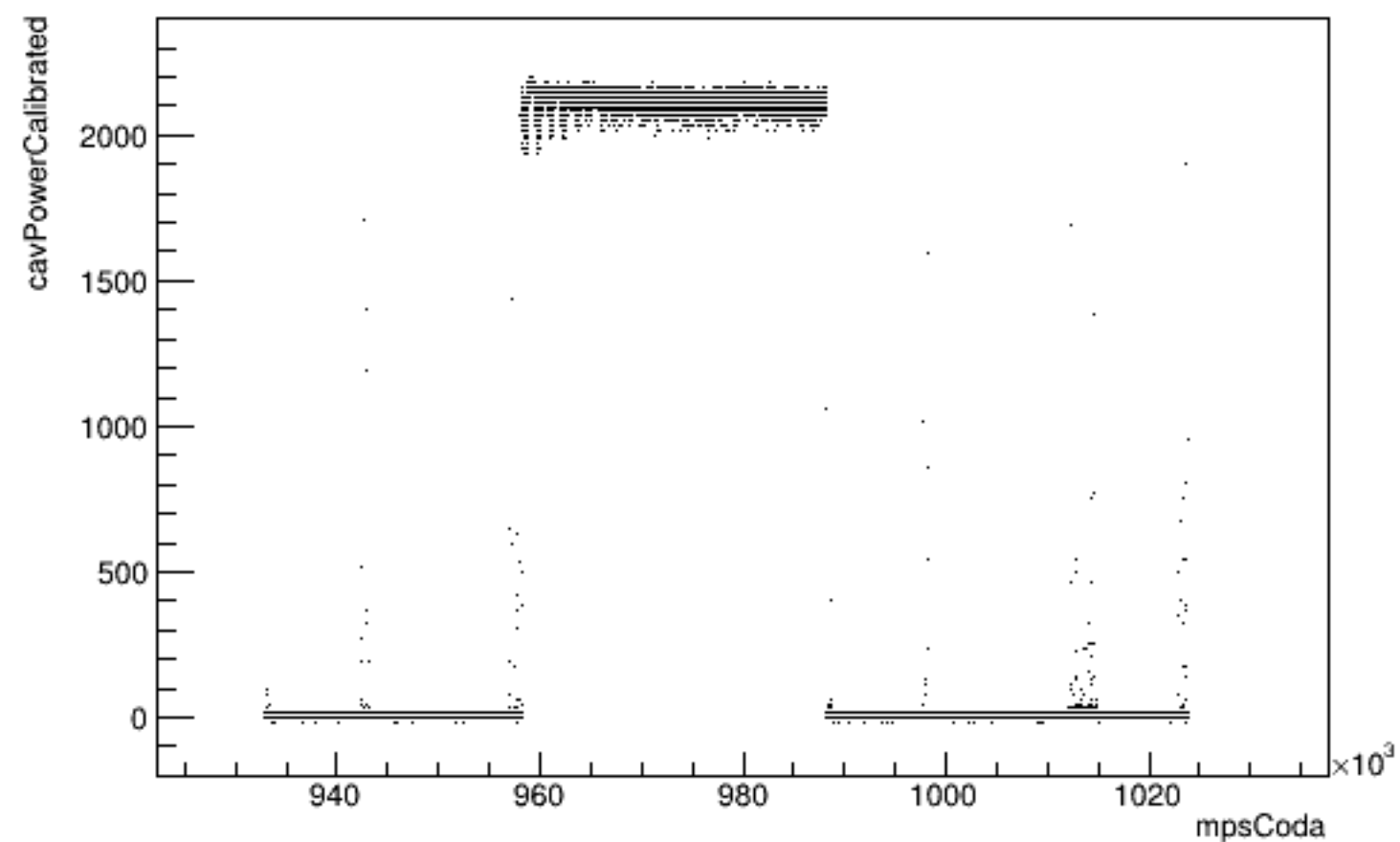
laserState:mpsCoda {mpsCoda&gt;=932929 &amp;&amp; mpsCoda&lt;=1023832}



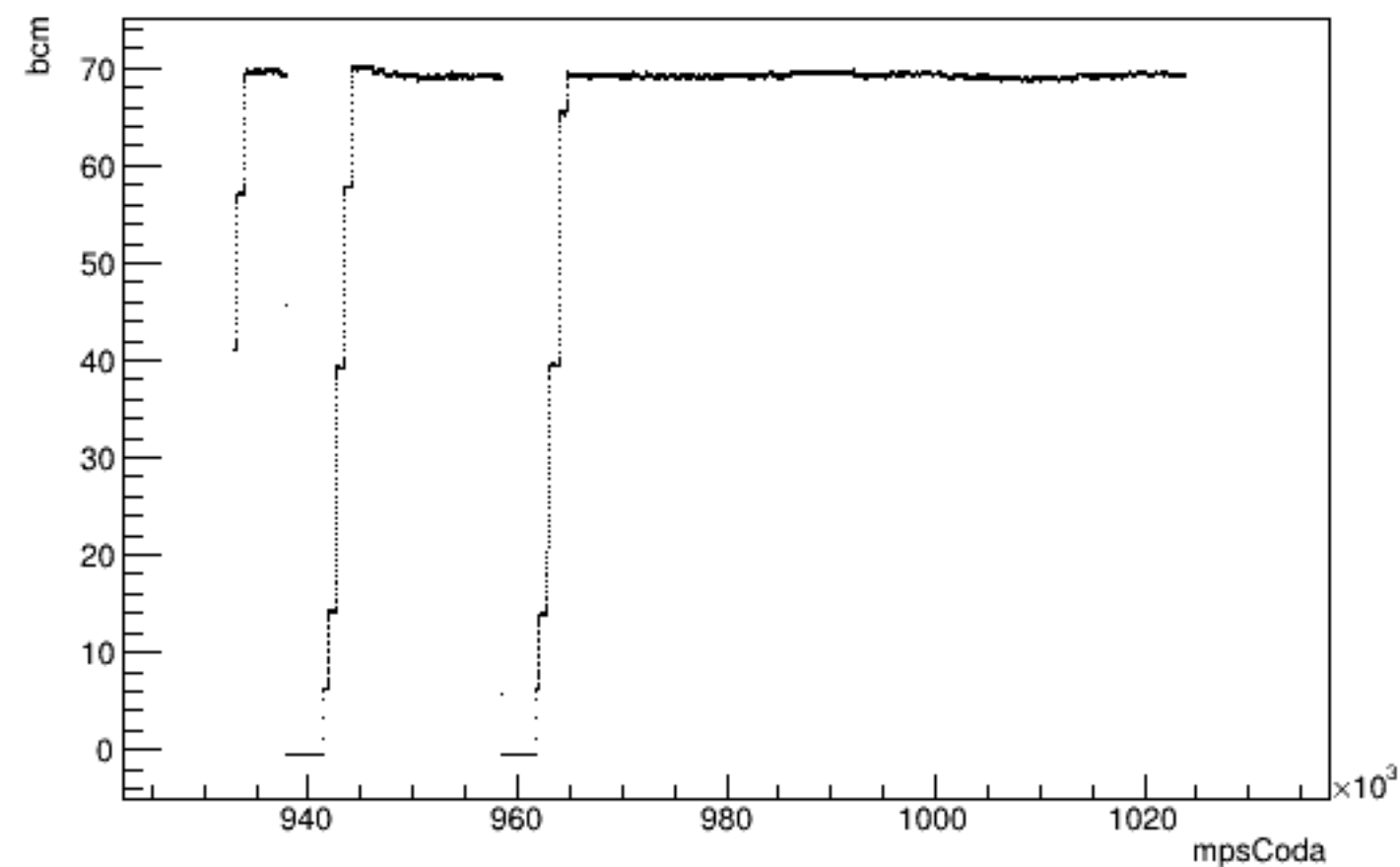
beamState + 1:mpsCoda {mpsCoda&gt;=932929 &amp;&amp; mpsCoda&lt;=1023832}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=932929 &amp;&amp; mpsCoda&lt;=1023832}



bcm:mpsCoda {mpsCoda&gt;=932929 &amp;&amp; mpsCoda&lt;=1023832}



## Cycle 9, Diffs

Entries: 4391

Mean: -0.0089 +/- 0.0041

Std Dev: 0.2691 +/- 0.0029

Entries: 3697

Mean: -0.0708 +/- 0.0053

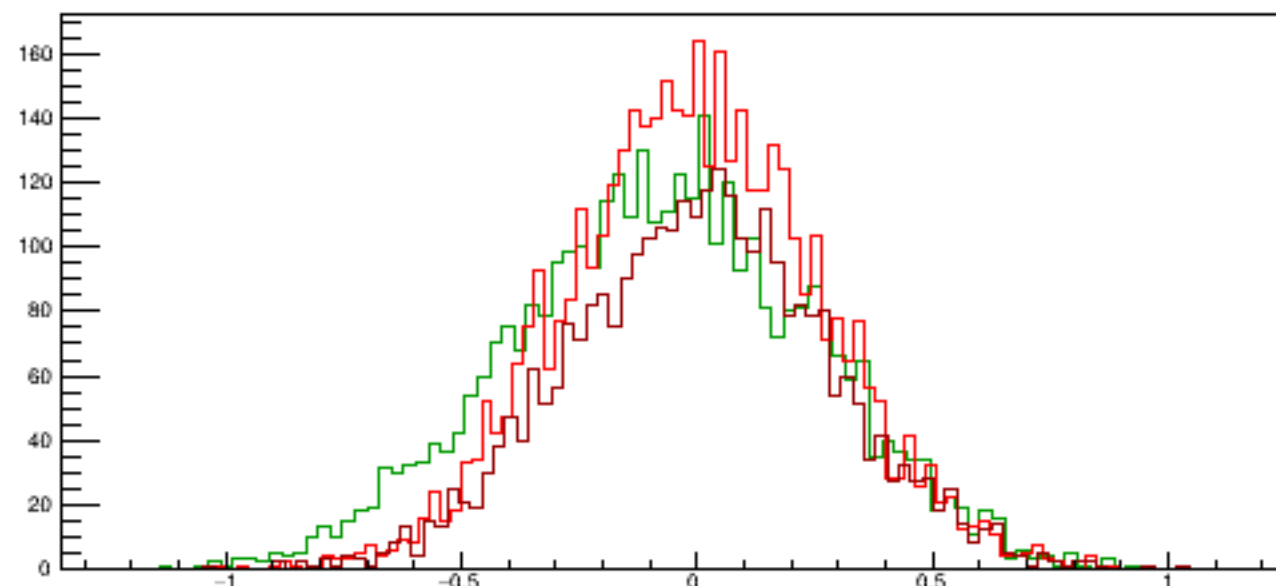
Std Dev: 0.3206 +/- 0.0037

Entries: 3136

Mean: 0.0031 +/- 0.0049

Std Dev: 0.2749 +/- 0.0035

Run 4401 quartetwise, Diffs



## Cycle 9, Sums

Entries: 4391

Mean: 15.1337 +/- 0.0048

Std Dev: 0.3172 +/- 0.0034

Entries: 3697

Mean: 19.6790 +/- 0.0060

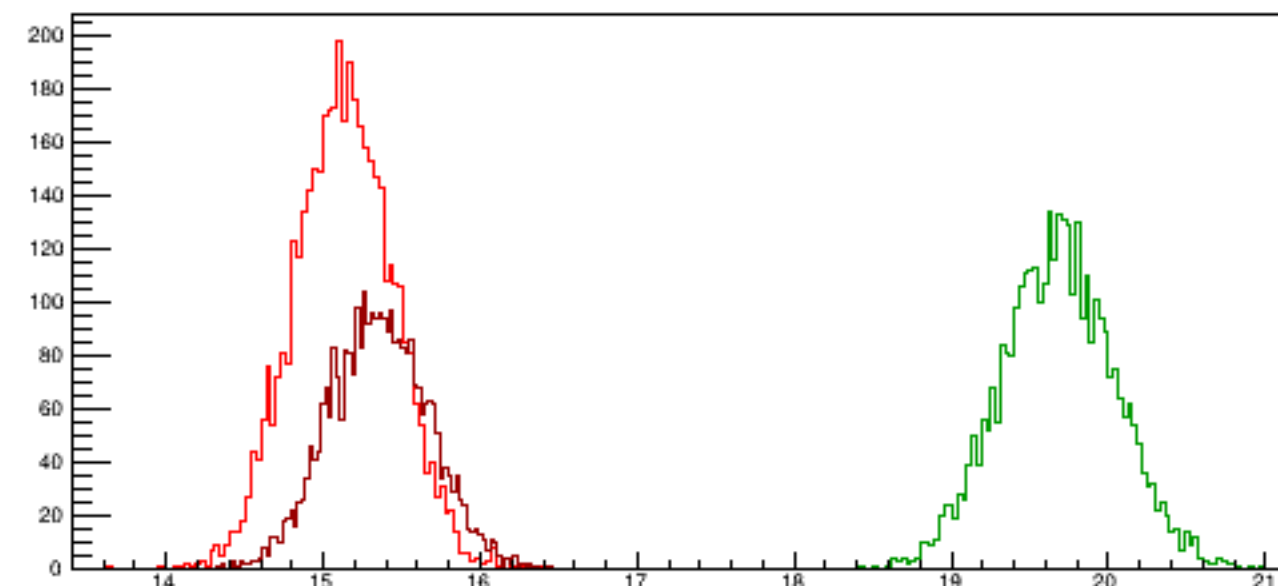
Std Dev: 0.3639 +/- 0.0042

Entries: 3136

Mean: 15.3555 +/- 0.0056

Std Dev: 0.3163 +/- 0.0040

Run 4401 quartetwise, Sums



## Cycle 9, Asyms

Entries: 4391

Mean: -0.0020 +/- 0.0009

Std Dev: 0.0607 +/- 0.0006

Entries: 3697

Mean: -0.0160 +/- 0.0012

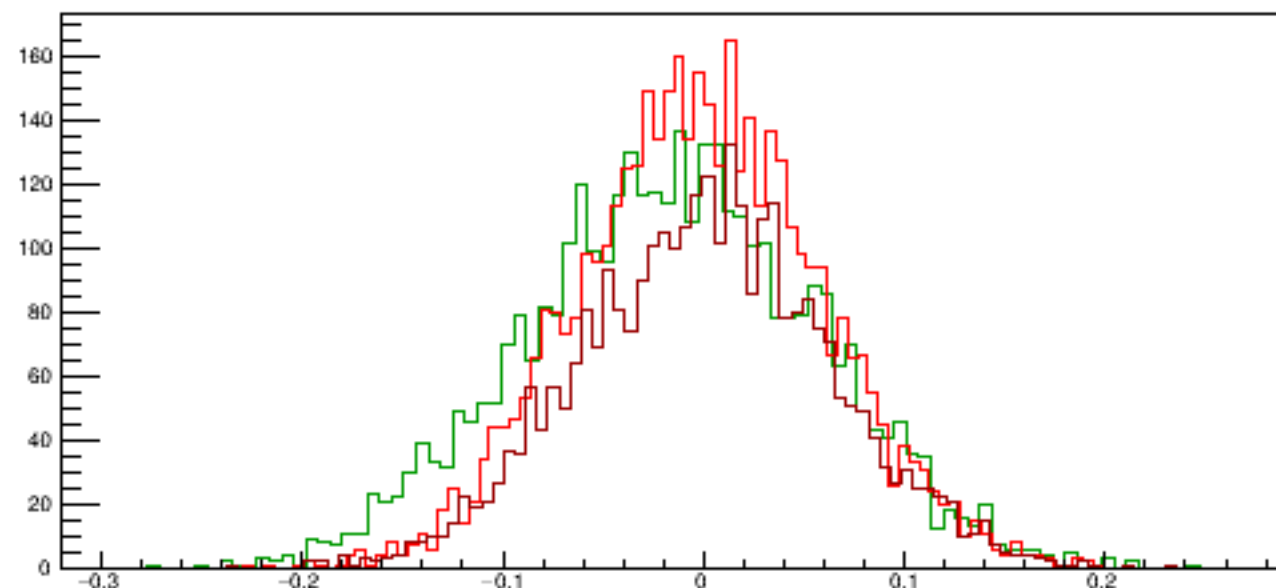
Std Dev: 0.0726 +/- 0.0008

Entries: 3136

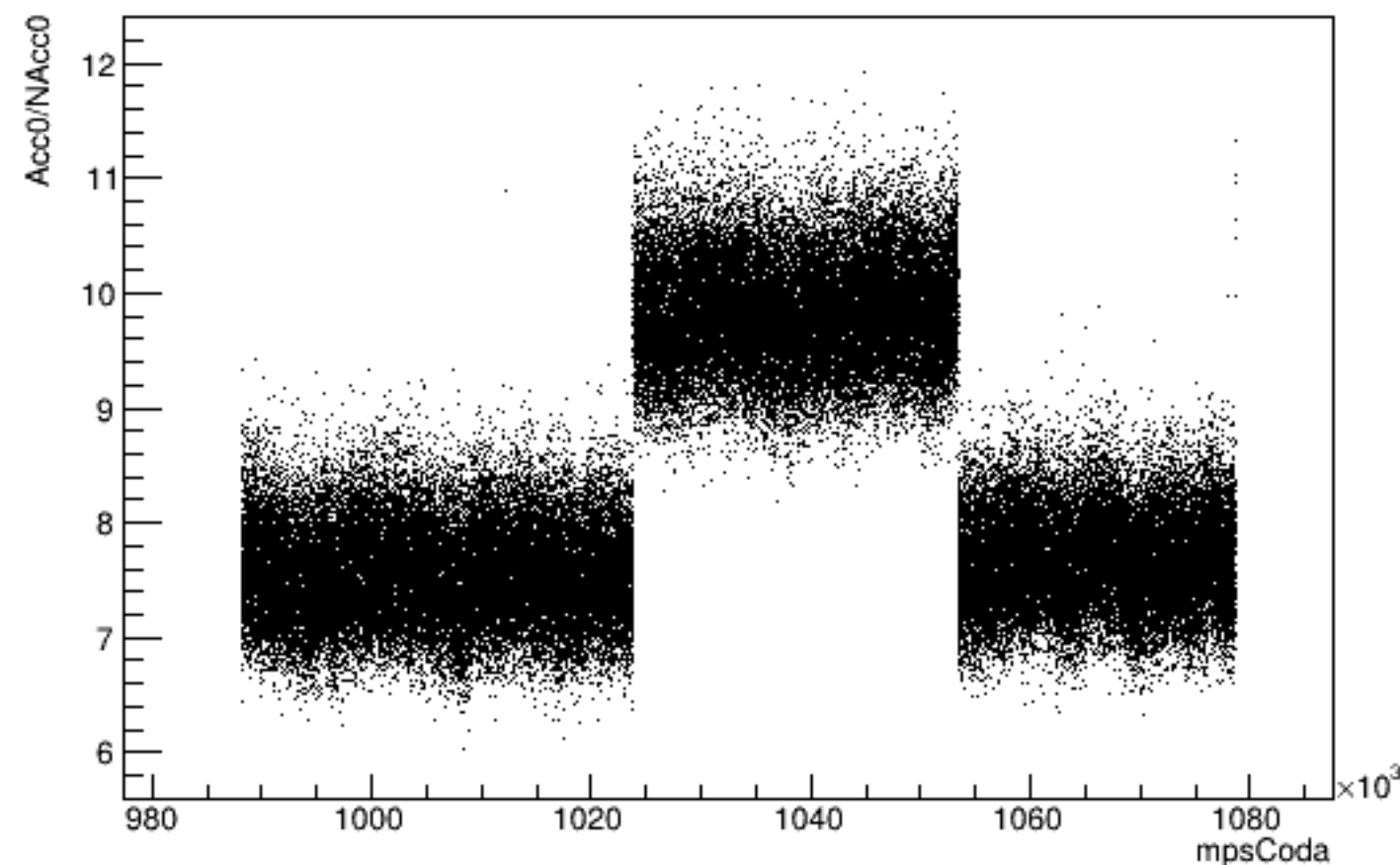
Mean: 0.0007 +/- 0.0011

Std Dev: 0.0620 +/- 0.0008

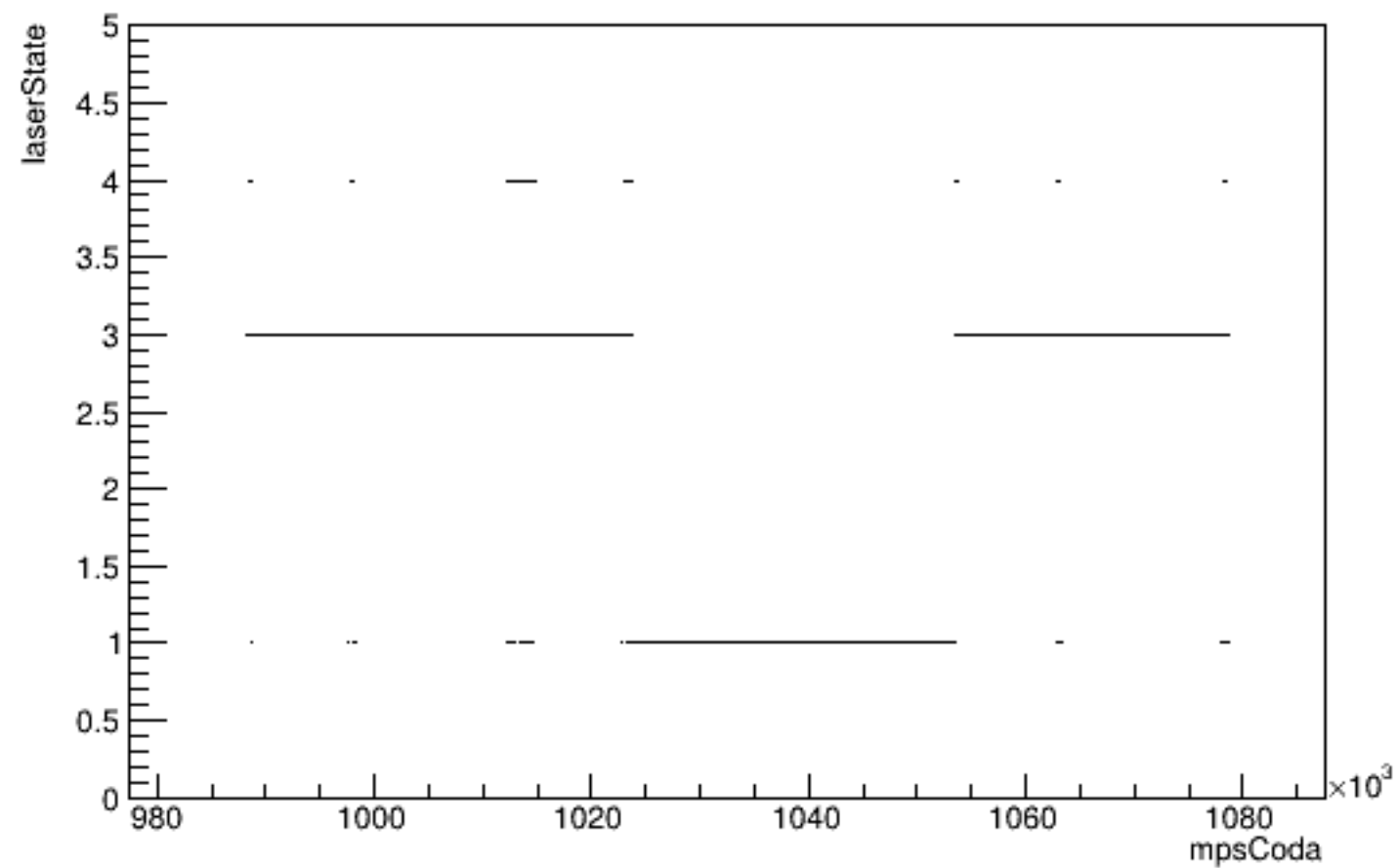
Run 4401 quartetwise, Asyms



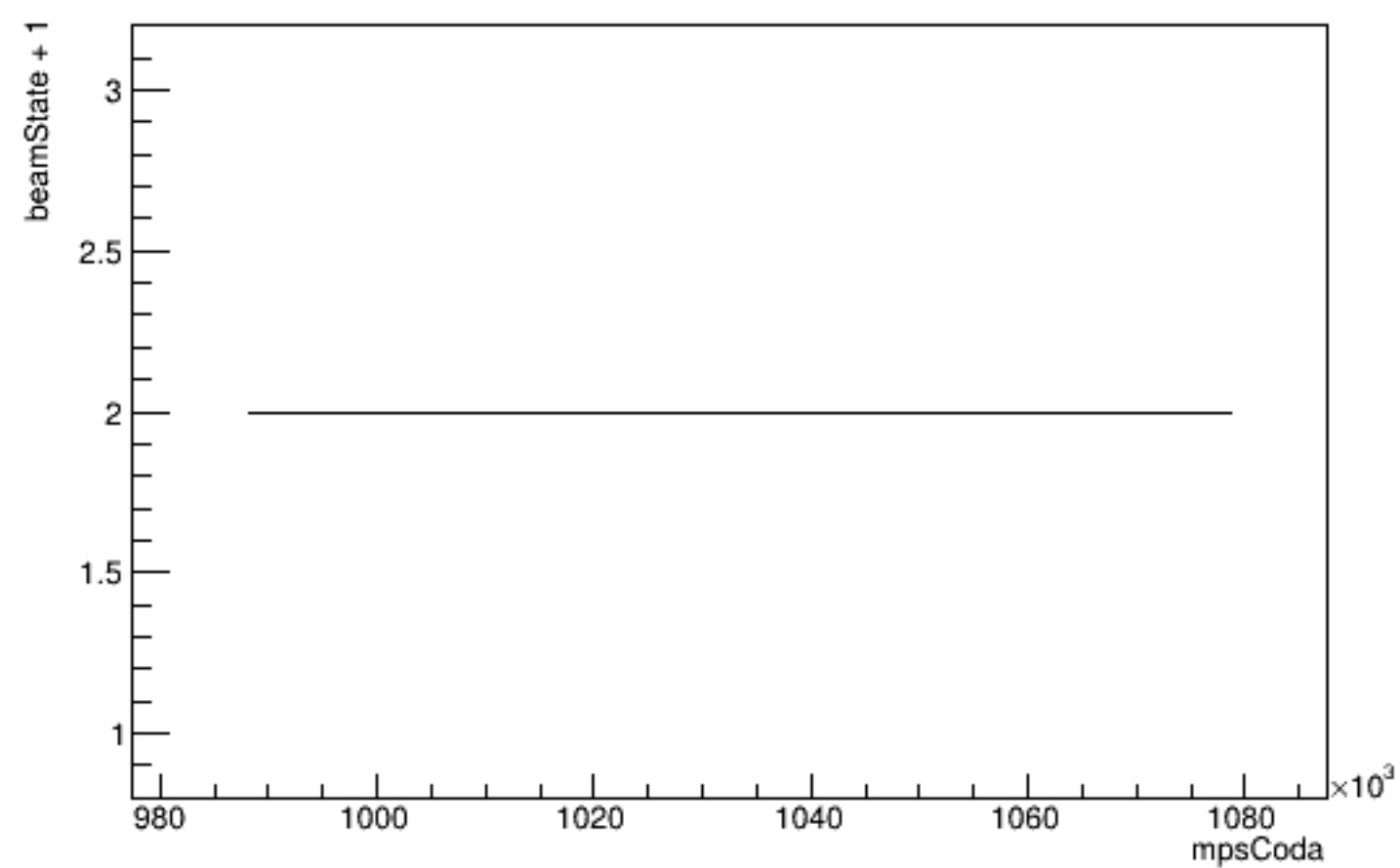
Acc0/NAcc0:mpsCoda (mpsCoda>=988153 && mpsCoda<=1078672 && beamState==1)



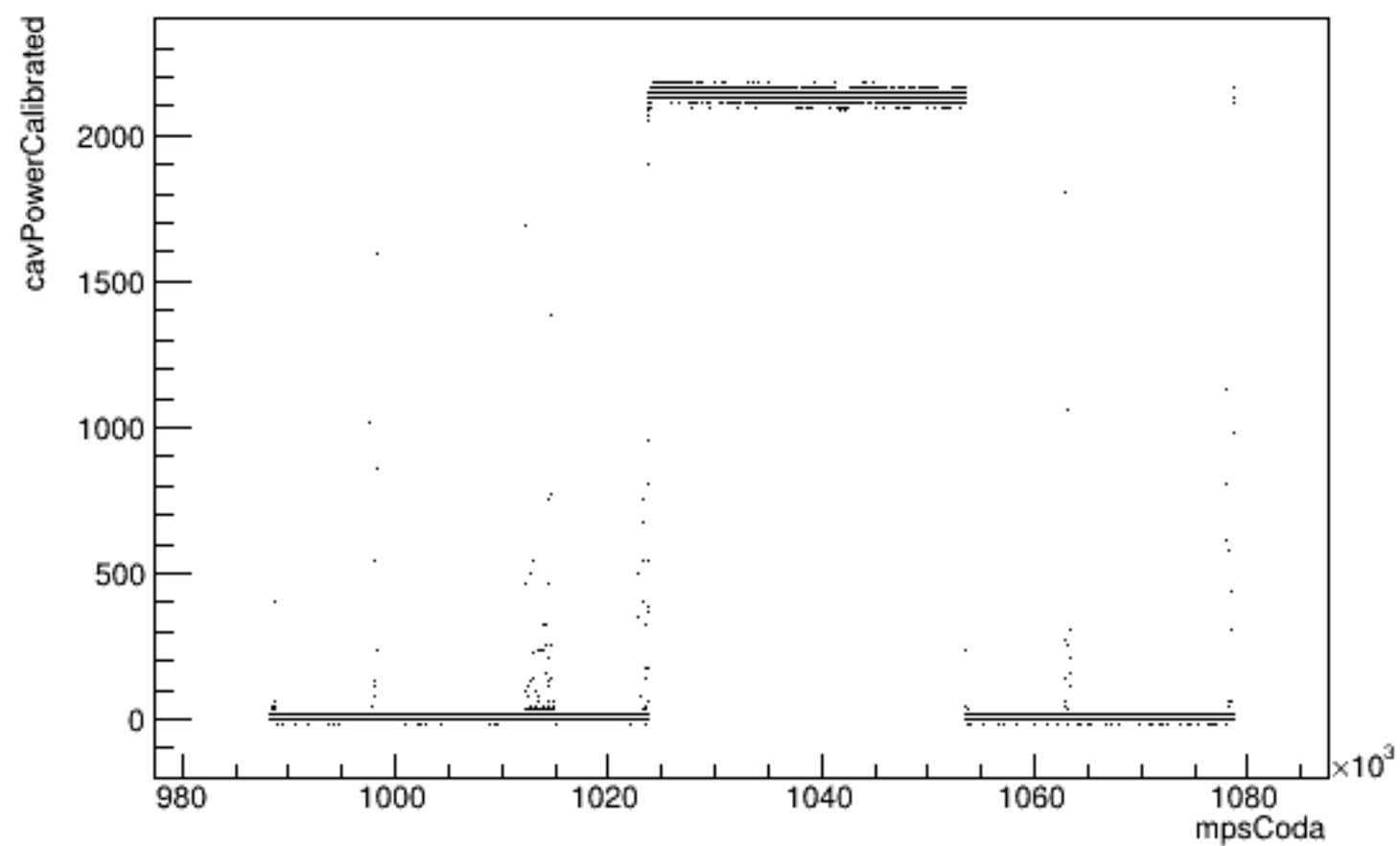
laserState:mpsCoda {mpsCoda&gt;=988153 &amp;&amp; mpsCoda&lt;=1078672}



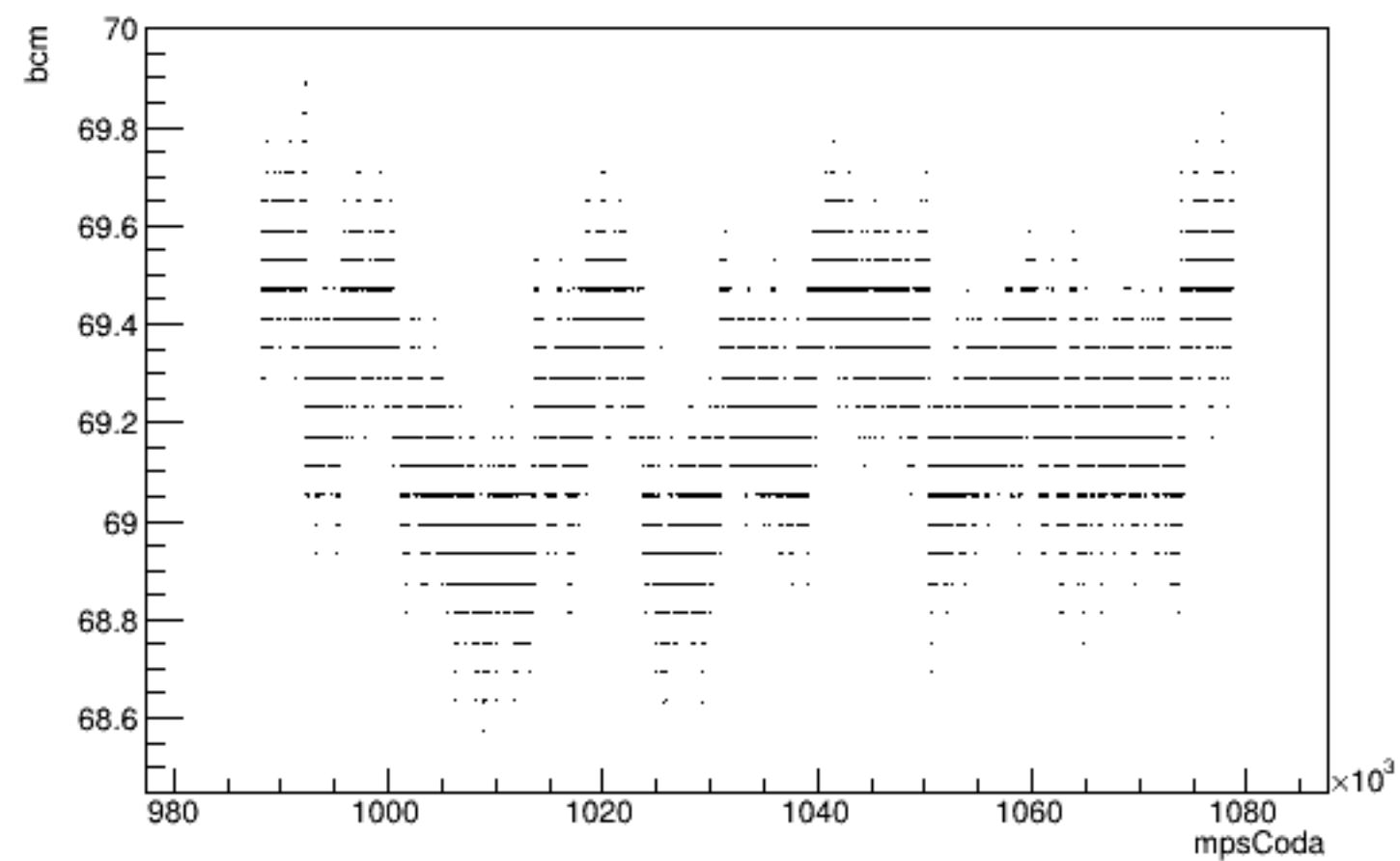
beamState + 1:mpsCoda {mpsCoda&gt;=988153 &amp;&amp; mpsCoda&lt;=1078672}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=988153 &amp;&amp; mpsCoda&lt;=1078672}



bcm:mpsCoda {mpsCoda&gt;=988153 &amp;&amp; mpsCoda&lt;=1078672}



## Cycle 10, Diffs

Entries: 3136

Mean: 0.0031 +/- 0.0049

Std Dev: 0.2749 +/- 0.0035

Entries: 2732

Mean: -0.0583 +/- 0.0060

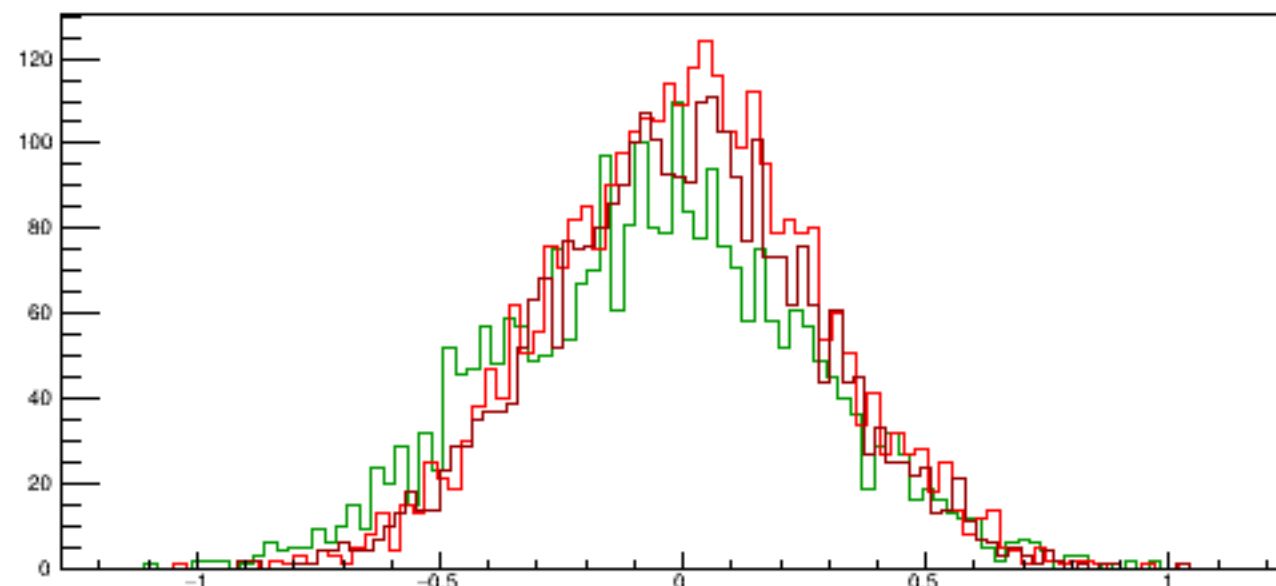
Std Dev: 0.3156 +/- 0.0043

Entries: 3020

Mean: -0.0061 +/- 0.0050

Std Dev: 0.2743 +/- 0.0035

Run 4401 quartetwise, Diffs



## Cycle 10, Sums

Entries: 3136

Mean: 15.3555 +/- 0.0056

Std Dev: 0.3163 +/- 0.0040

Entries: 2732

Mean: 20.0626 +/- 0.0071

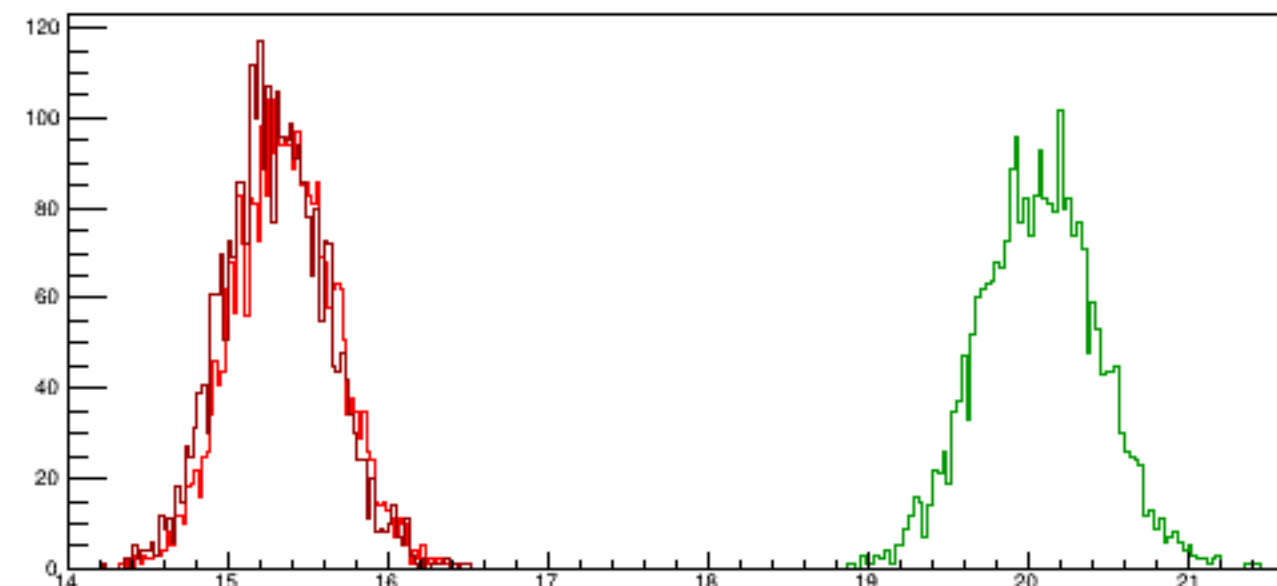
Std Dev: 0.3711 +/- 0.0050

Entries: 3020

Mean: 15.2971 +/- 0.0058

Std Dev: 0.3209 +/- 0.0041

Run 4401 quartetwise, Sums



## Cycle 10, Asyms

Entries: 3136

Mean: 0.0006 +/- 0.0010

Std Dev: 0.0580 +/- 0.0007

Entries: 2732

Mean: -0.0124 +/- 0.0013

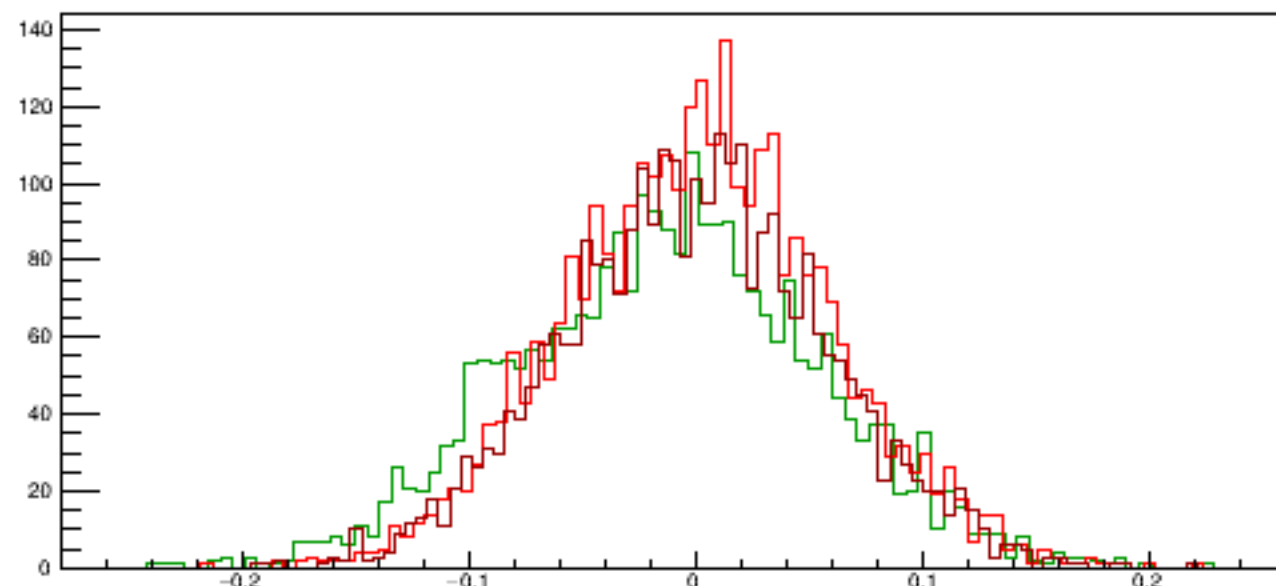
Std Dev: 0.0669 +/- 0.0009

Entries: 3020

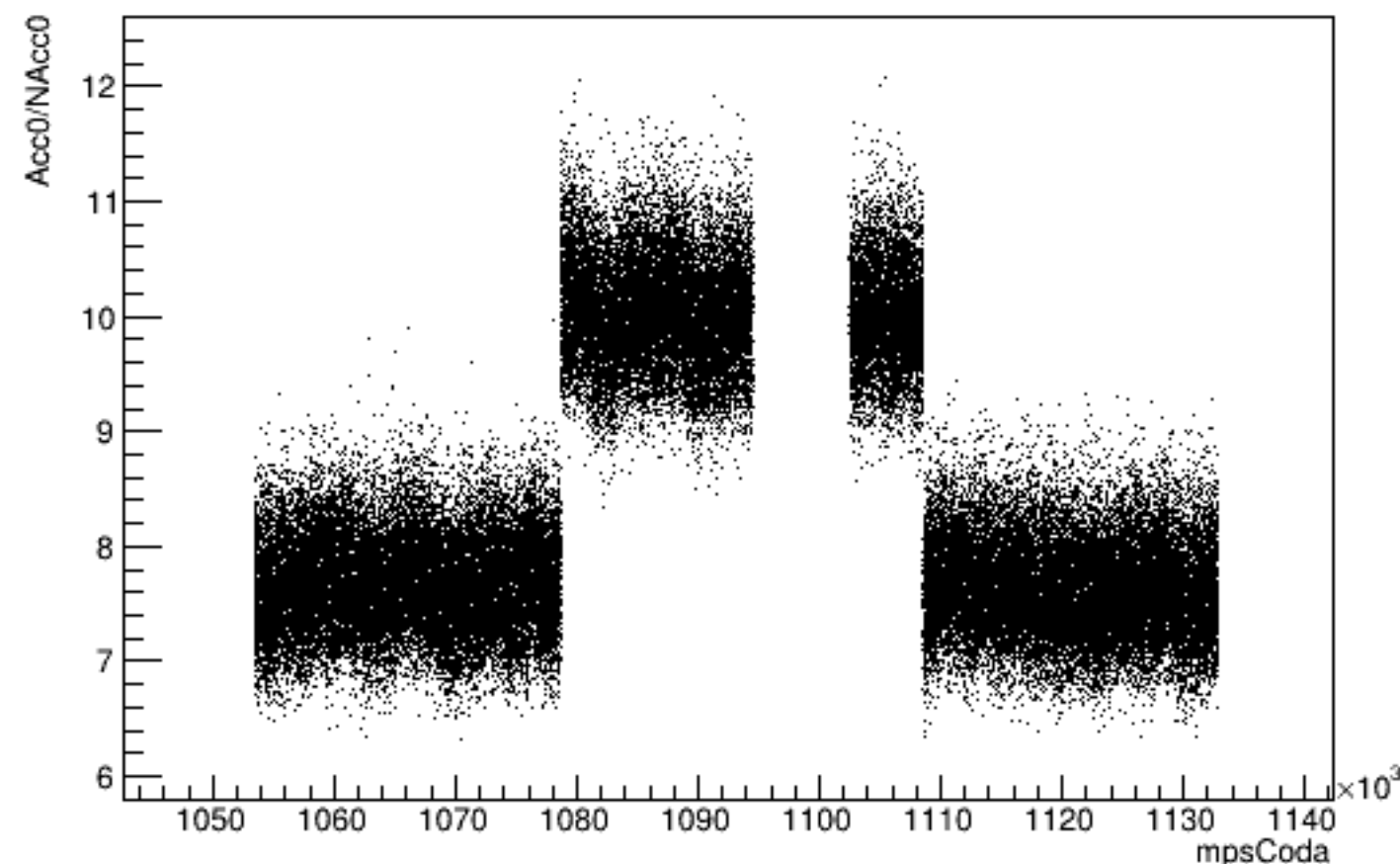
Mean: -0.0013 +/- 0.0011

Std Dev: 0.0579 +/- 0.0007

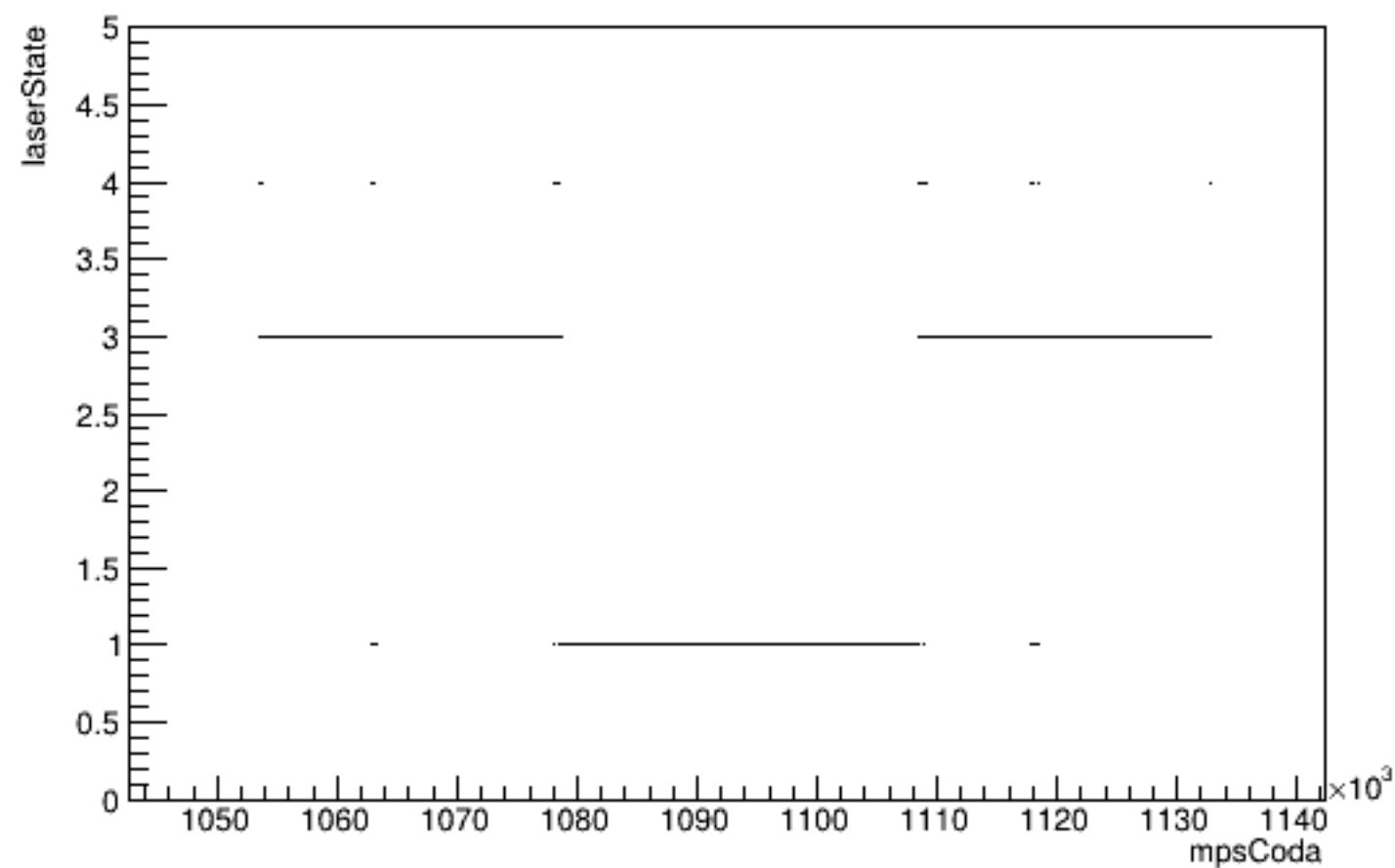
Run 4401 quartetwise, Asyms



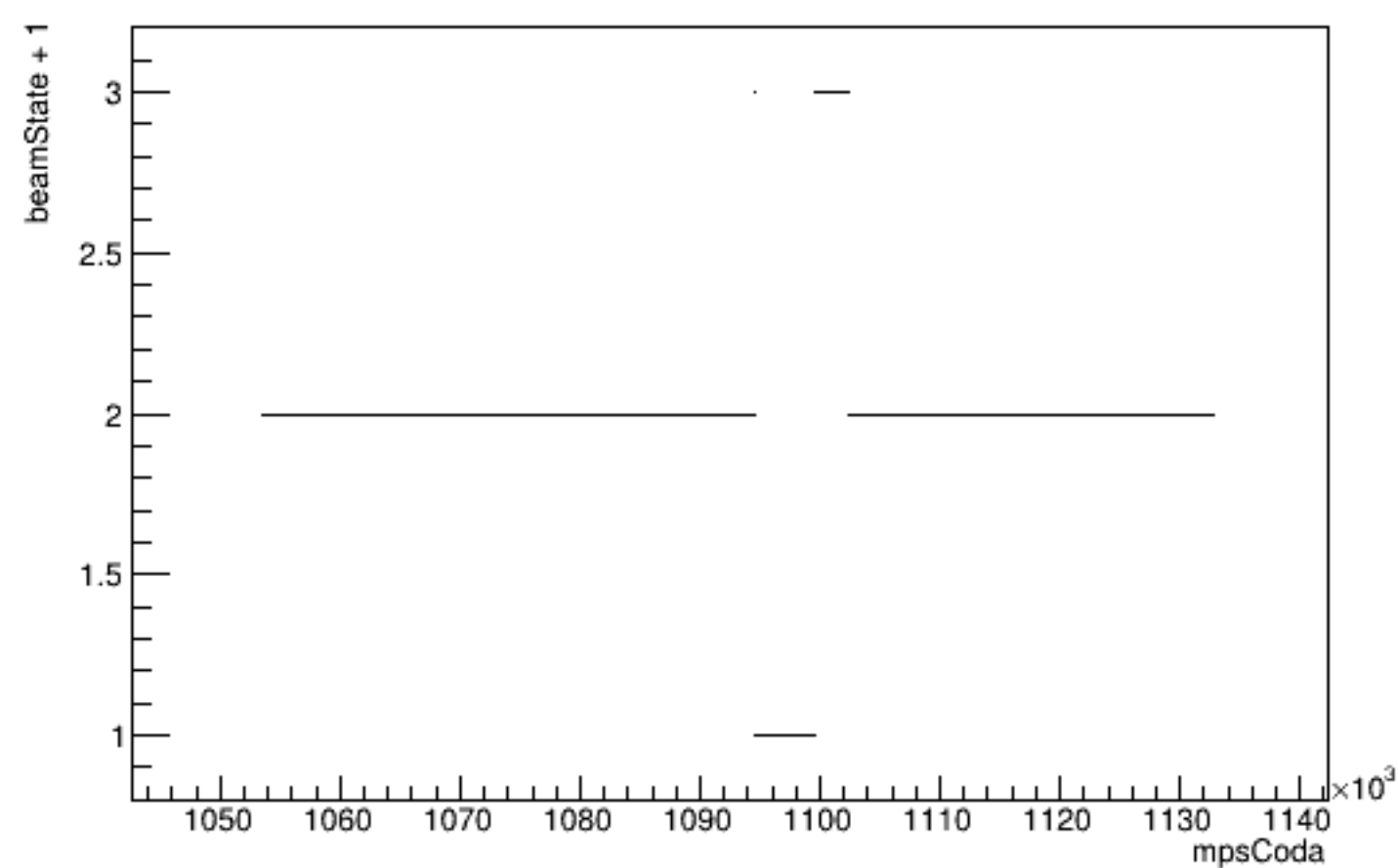
Acc0/NAcc0:mpsCoda (mpsCoda>=1053409 && mpsCoda<=1132848 && beamState==1)



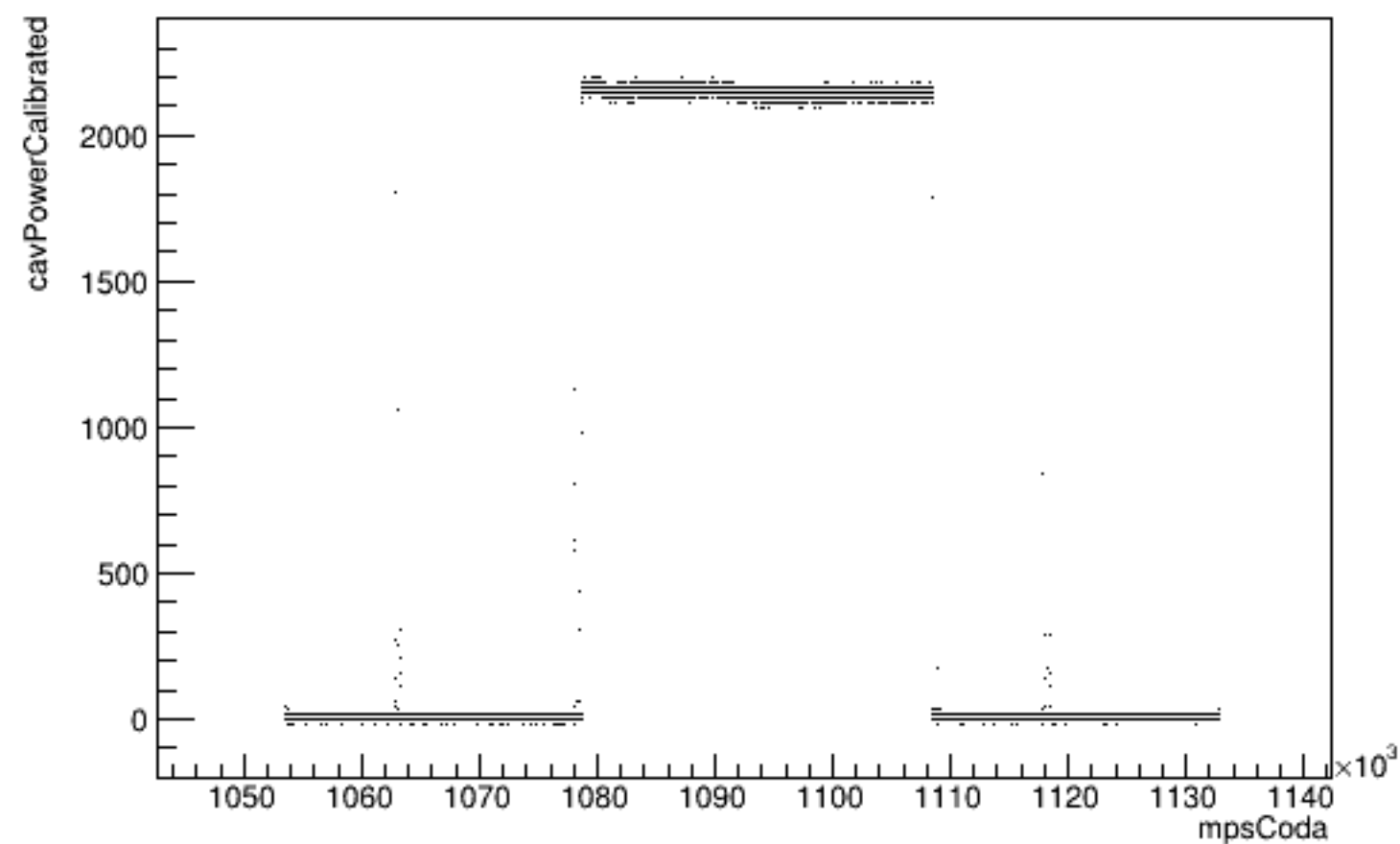
laserState:mpsCoda {mpsCoda&gt;=1053409 &amp;&amp; mpsCoda&lt;=1132848}



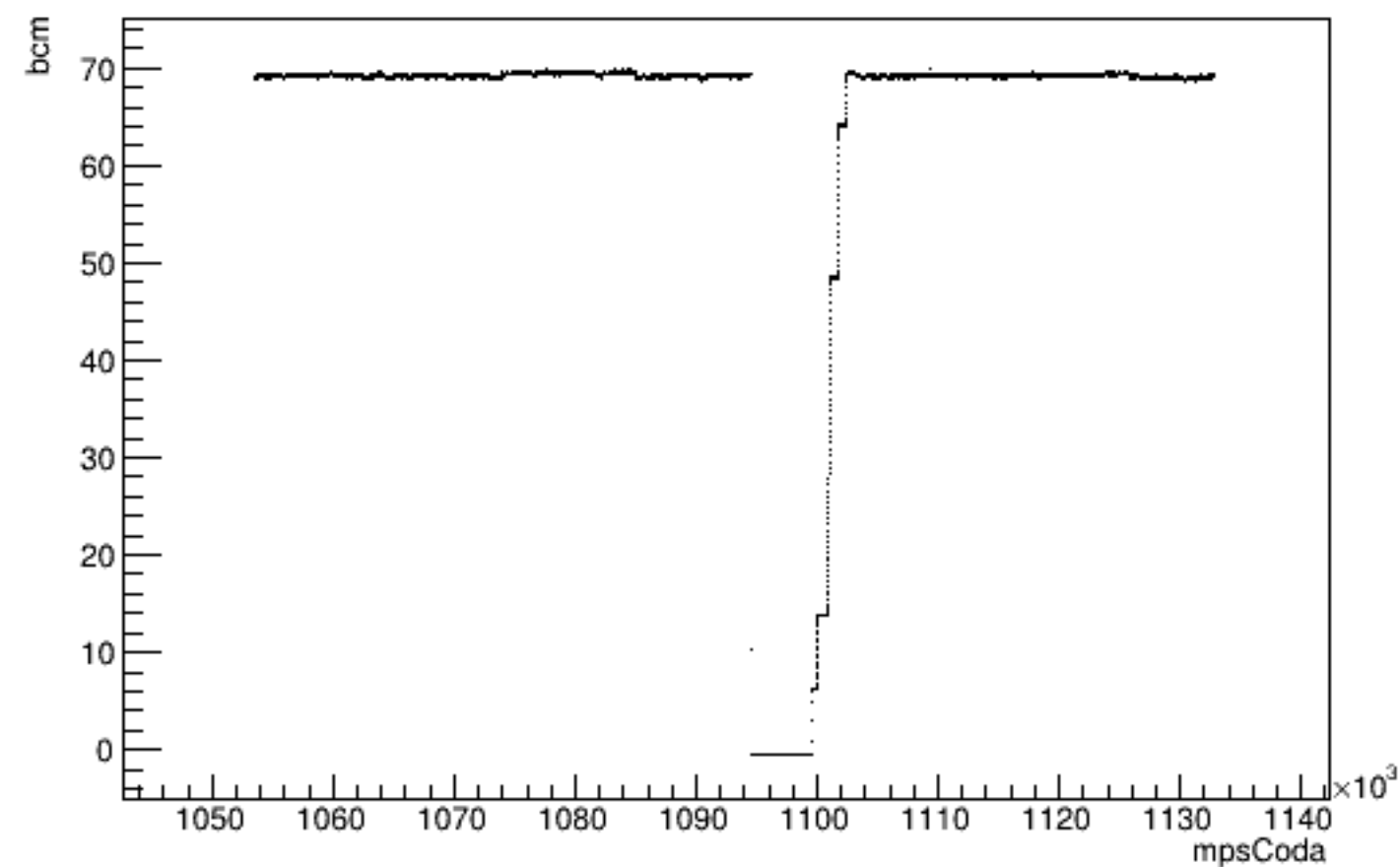
beamState + 1:mpsCoda {mpsCoda&gt;=1053409 &amp;&amp; mpsCoda&lt;=1132848}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1053409 &amp;&amp; mpsCoda&lt;=1132848}



bcm:mpsCoda {mpsCoda&gt;=1053409 &amp;&amp; mpsCoda&lt;=1132848}



## Cycle 11, Diffs

Entries: 3020

Mean: -0.0061 +/- 0.0050

Std Dev: 0.2743 +/- 0.0035

Entries: 3716

Mean: -0.0698 +/- 0.0051

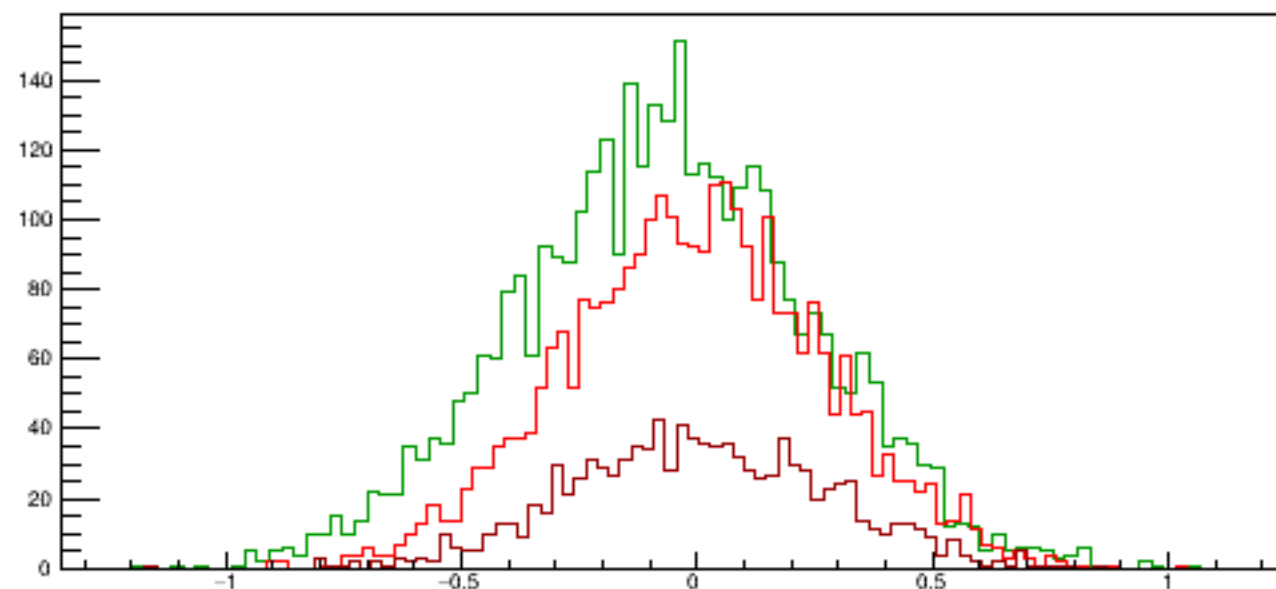
Std Dev: 0.3133 +/- 0.0036

Entries: 1059

Mean: 0.0032 +/- 0.0085

Std Dev: 0.2758 +/- 0.0060

Run 4401 quartetwise, Diffs



## Cycle 11, Sums

Entries: 3020

Mean: 15.2971 +/- 0.0058

Std Dev: 0.3209 +/- 0.0041

Entries: 3716

Mean: 20.1490 +/- 0.0059

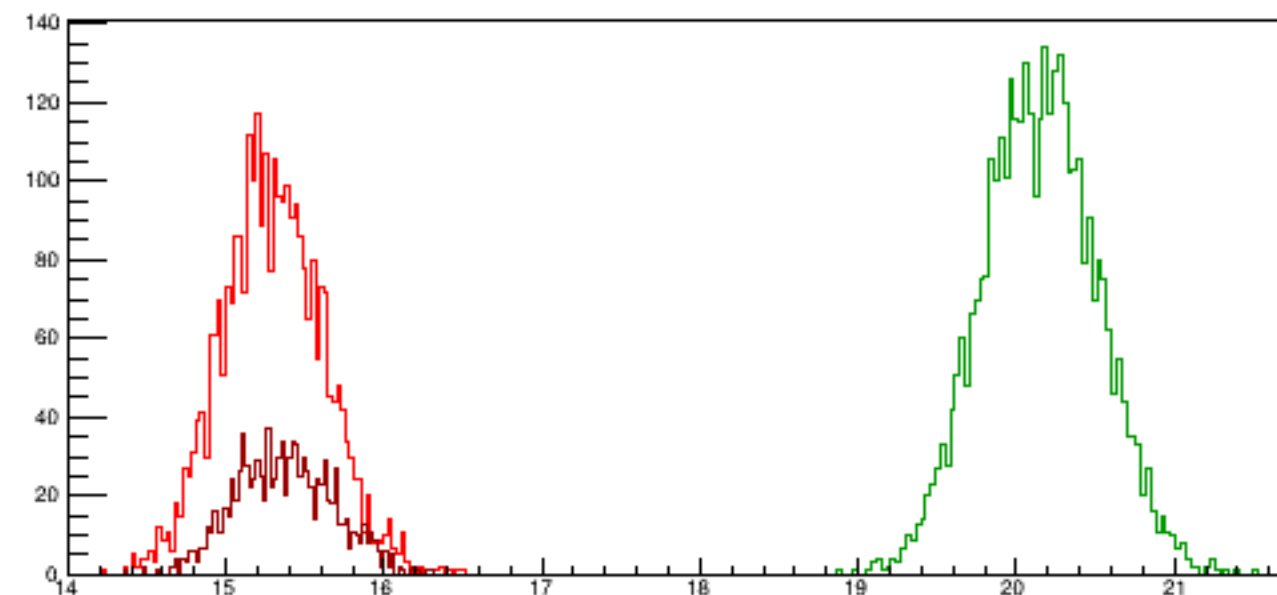
Std Dev: 0.3614 +/- 0.0042

Entries: 1059

Mean: 15.3720 +/- 0.0095

Std Dev: 0.3083 +/- 0.0067

Run 4401 quartetwise, Sums



## Cycle 11, Asyms

Entries: 3020

Mean: -0.0013 +/- 0.0010

Std Dev: 0.0570 +/- 0.0007

Entries: 3716

Mean: -0.0146 +/- 0.0011

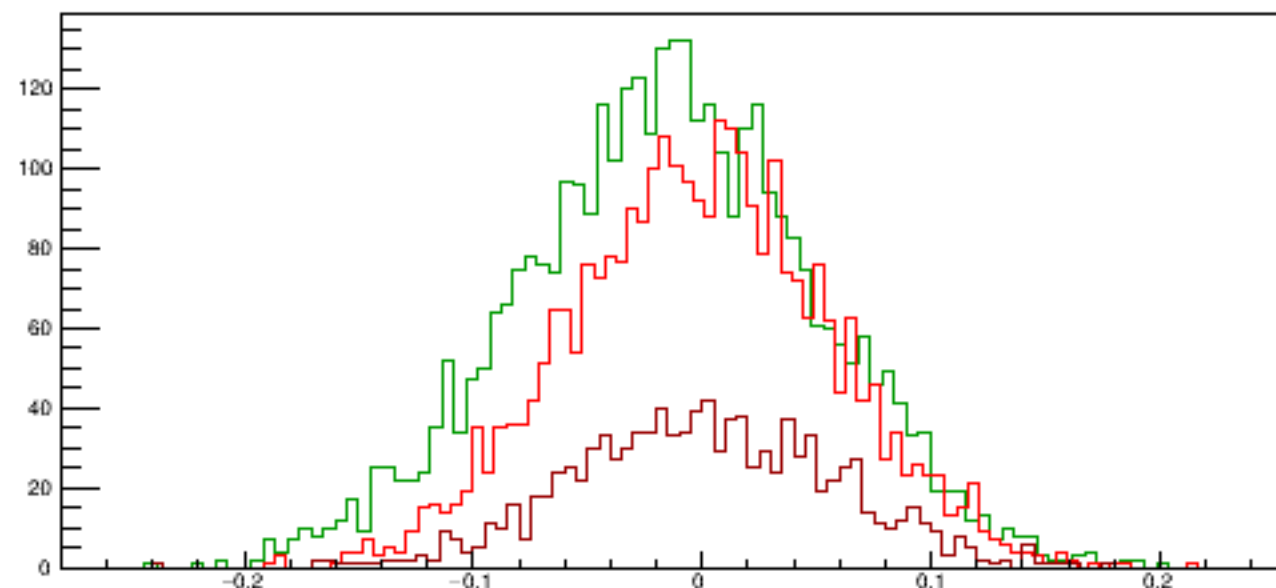
Std Dev: 0.0651 +/- 0.0008

Entries: 1059

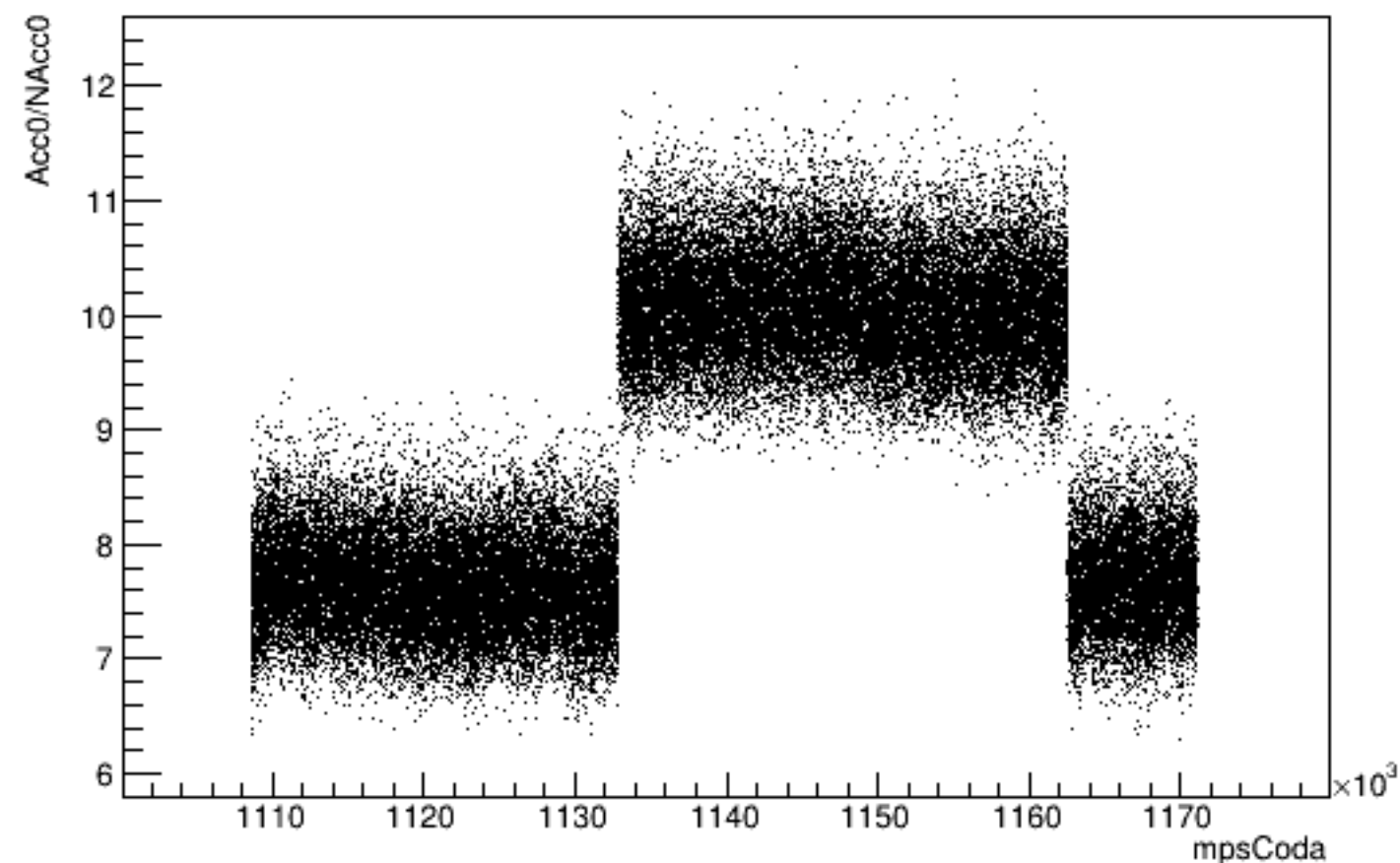
Mean: 0.0007 +/- 0.0018

Std Dev: 0.0573 +/- 0.0012

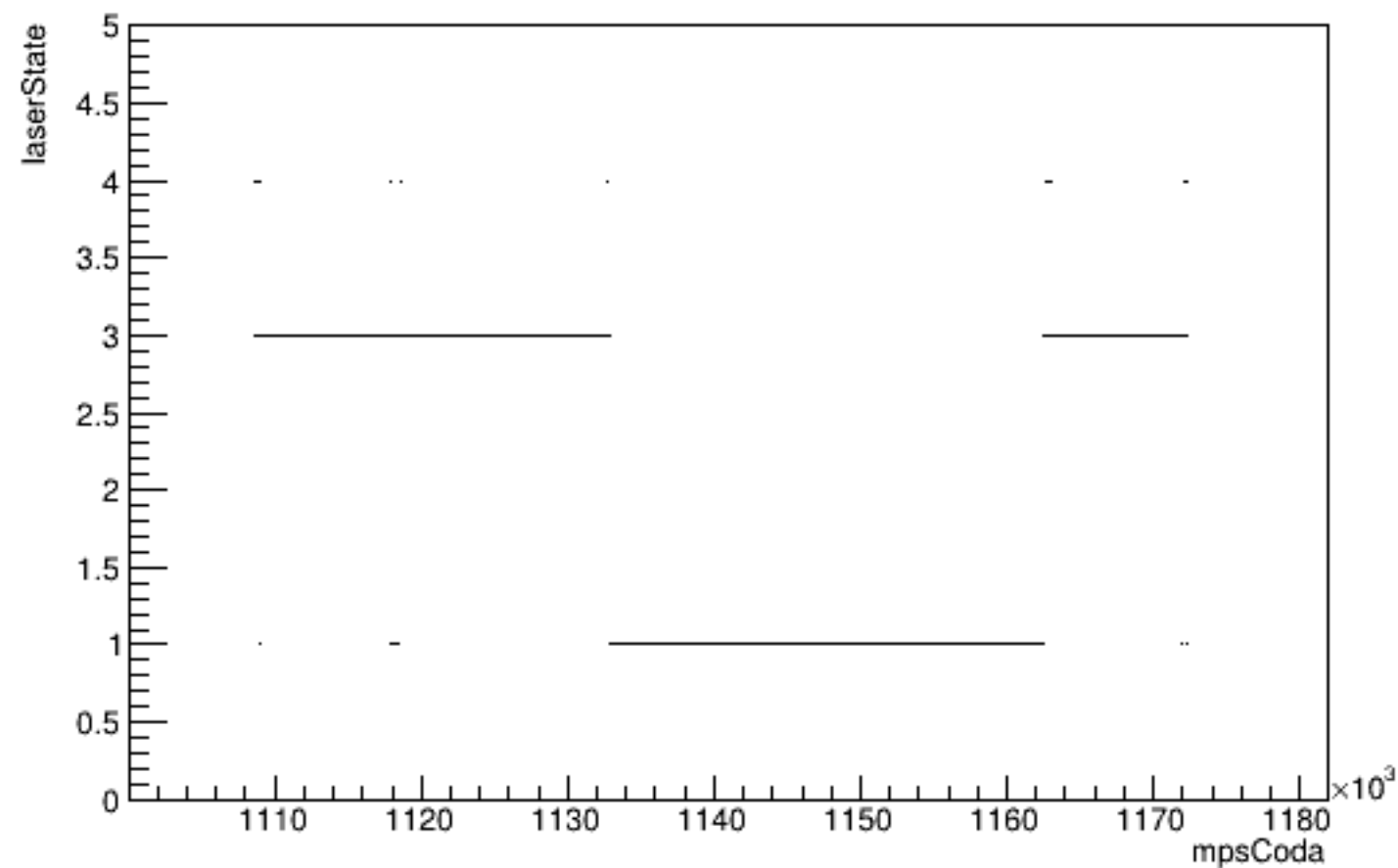
Run 4401 quartetwise, Asyms



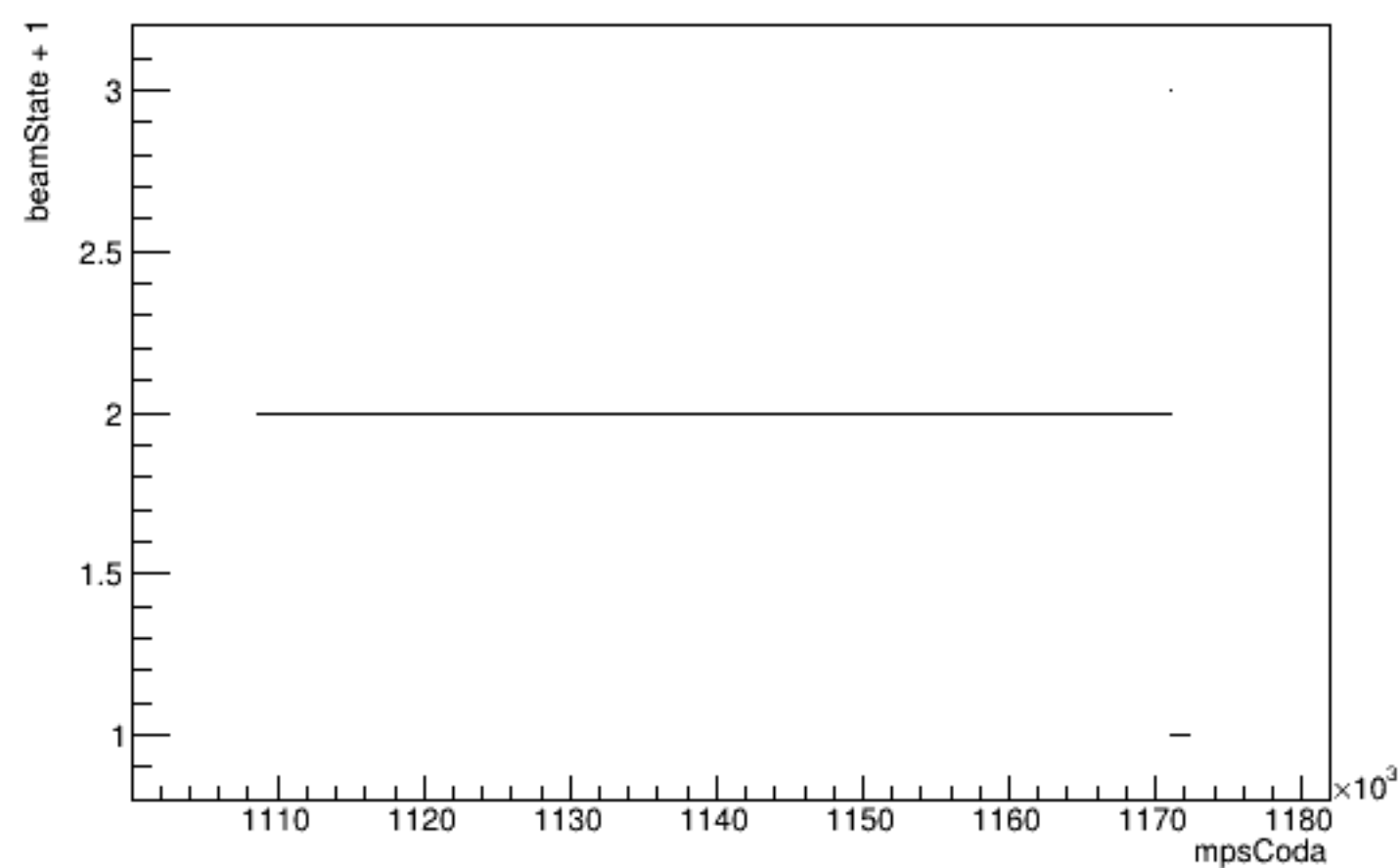
Acc0/NAcc0:mpsCoda (mpsCoda>=1108553 && mpsCoda<=1172328 && beamState==1)



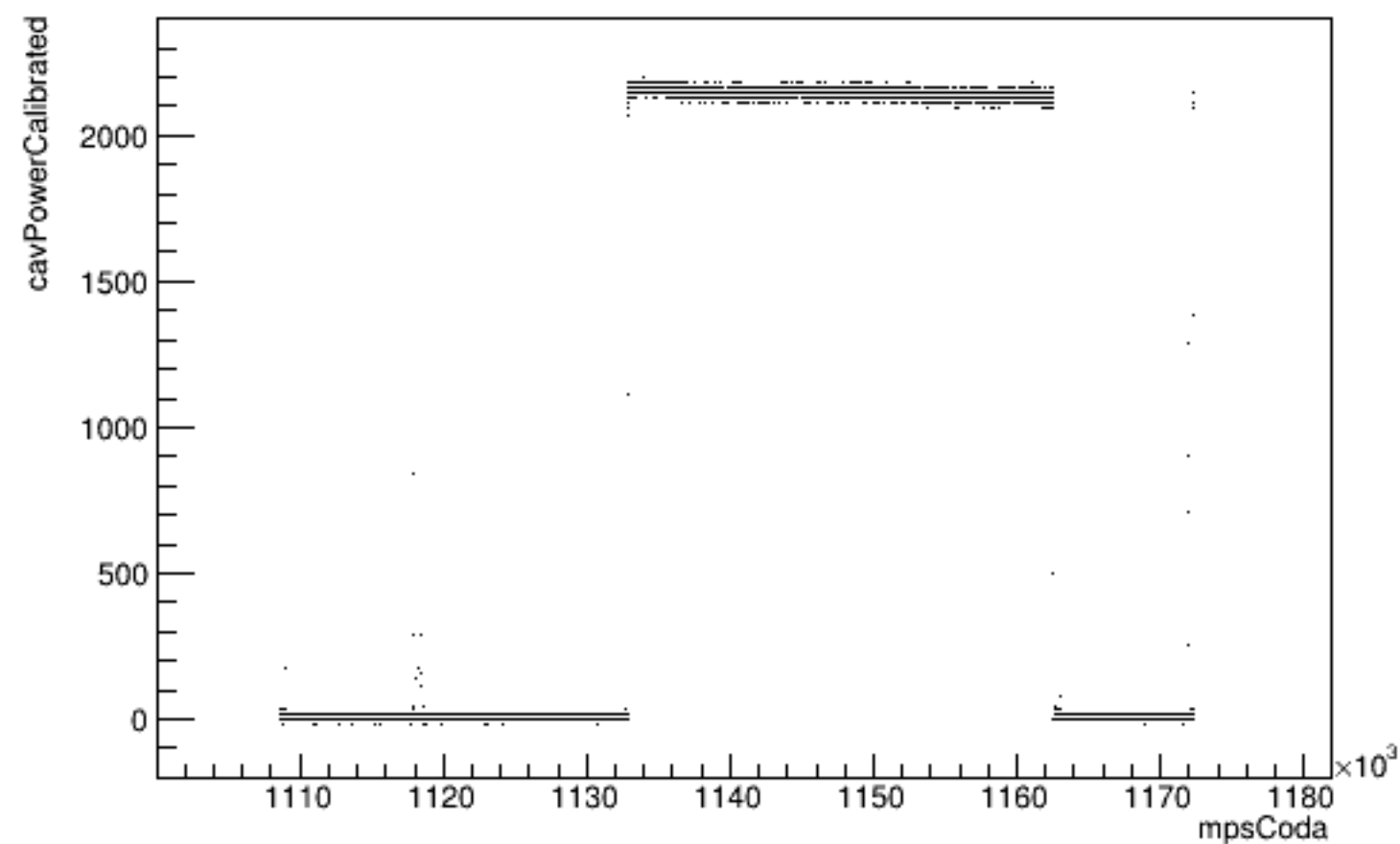
laserState:mpsCoda {mpsCoda&gt;=1108553 &amp;&amp; mpsCoda&lt;=1172328}



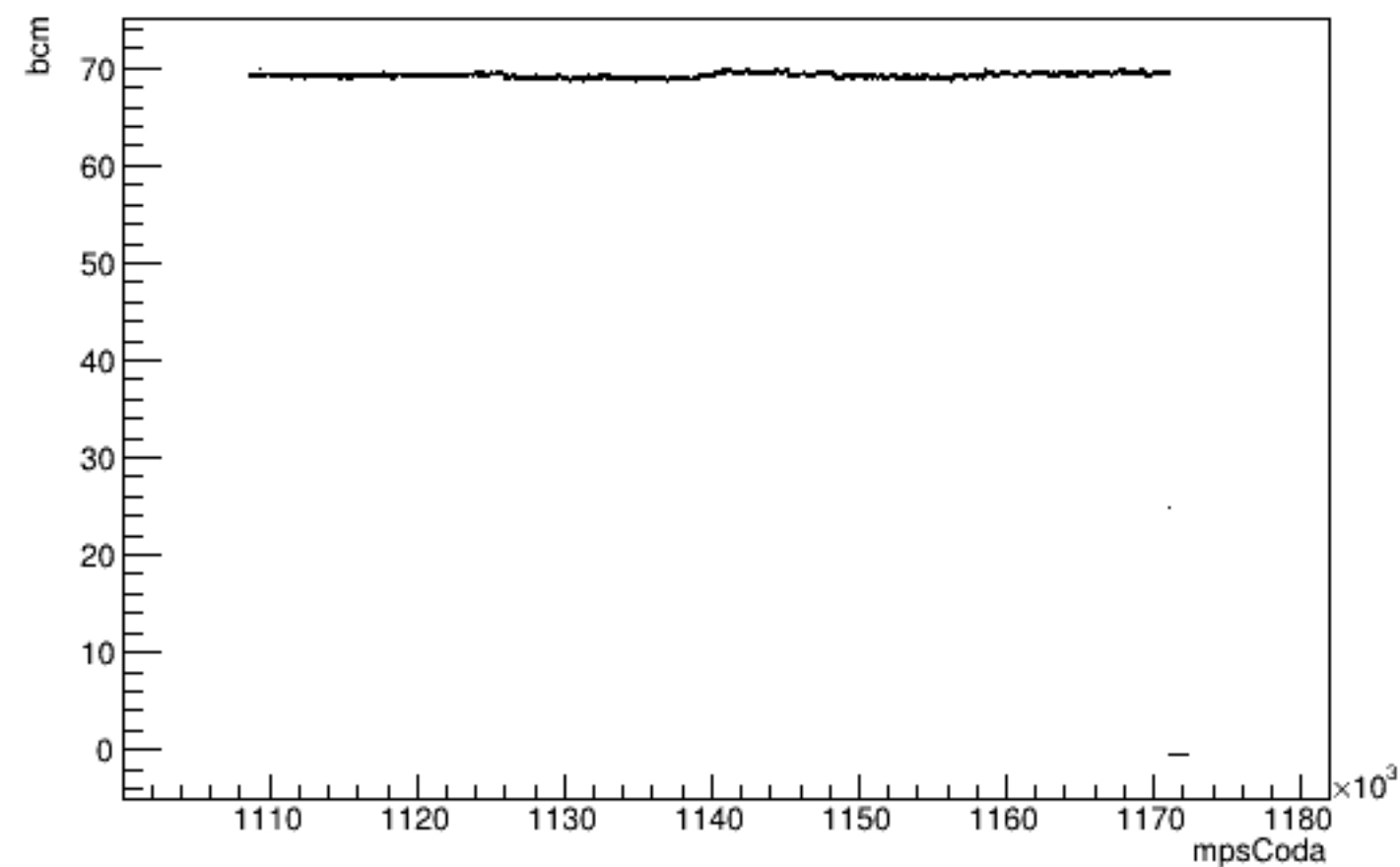
beamState + 1:mpsCoda {mpsCoda&gt;=1108553 &amp;&amp; mpsCoda&lt;=1172328}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1108553 &amp;&amp; mpsCoda&lt;=1172328}



bcm:mpsCoda {mpsCoda&gt;=1108553 &amp;&amp; mpsCoda&lt;=1172328}



## Cycle 12, Diffs

Entries: 1932

Mean: -0.0017 +/- 0.0061

Std Dev: 0.2679 +/- 0.0043

Entries: 2761

Mean: -0.0800 +/- 0.0060

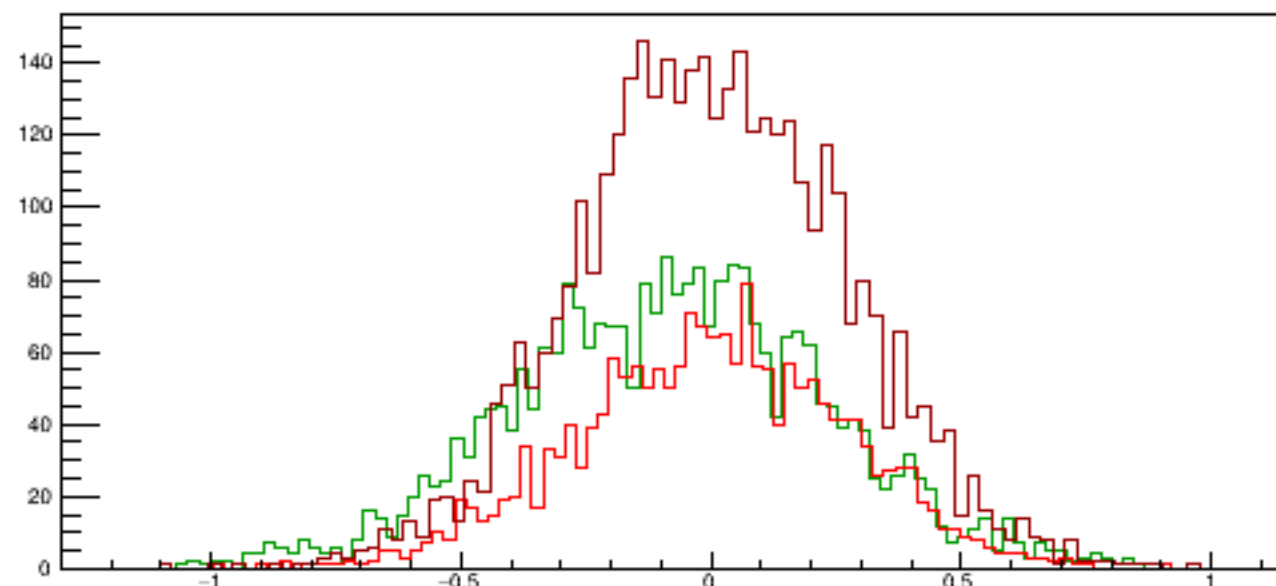
Std Dev: 0.3135 +/- 0.0042

Entries: 3881

Mean: 0.0010 +/- 0.0043

Std Dev: 0.2682 +/- 0.0030

Run 4401 quartetwise, Diffs



## Cycle 12, Sums

Entries: 1932

Mean: 15.4361 +/- 0.0072

Std Dev: 0.3180 +/- 0.0051

Entries: 2761

Mean: 20.0936 +/- 0.0071

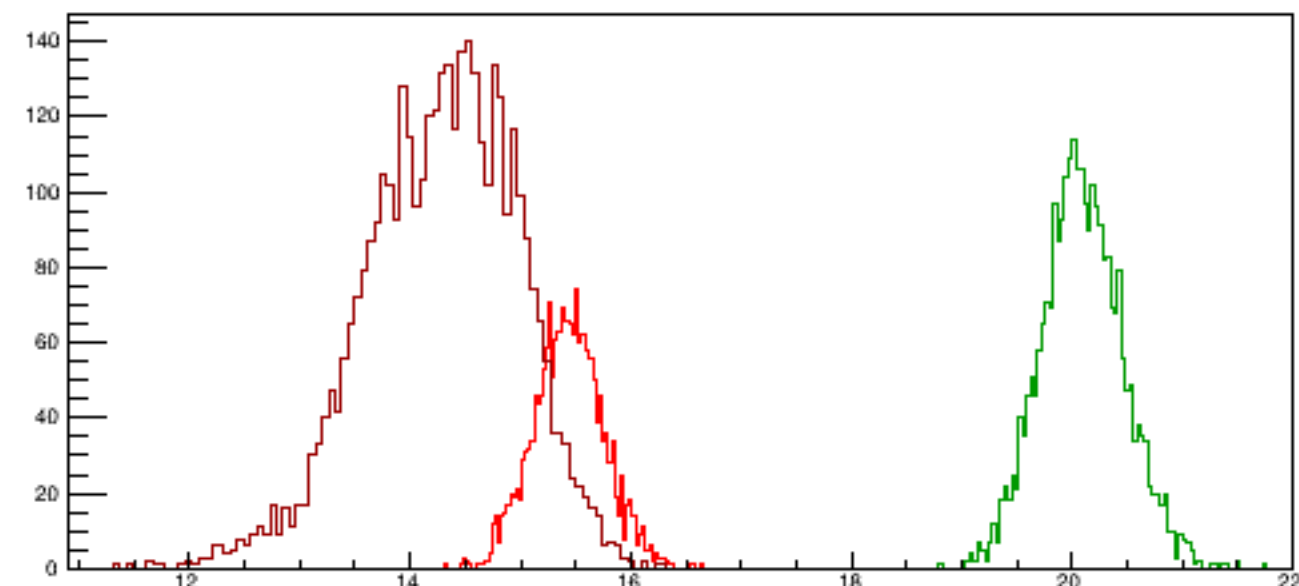
Std Dev: 0.3721 +/- 0.0050

Entries: 3881

Mean: 14.2834 +/- 0.0110

Std Dev: 0.6863 +/- 0.0078

Run 4401 quartetwise, Sums



## Cycle 12, Asyms

Entries: 1932

Mean: -0.0003 +/- 0.0012

Std Dev: 0.0512 +/- 0.0008

Entries: 2761

Mean: -0.0153 +/- 0.0011

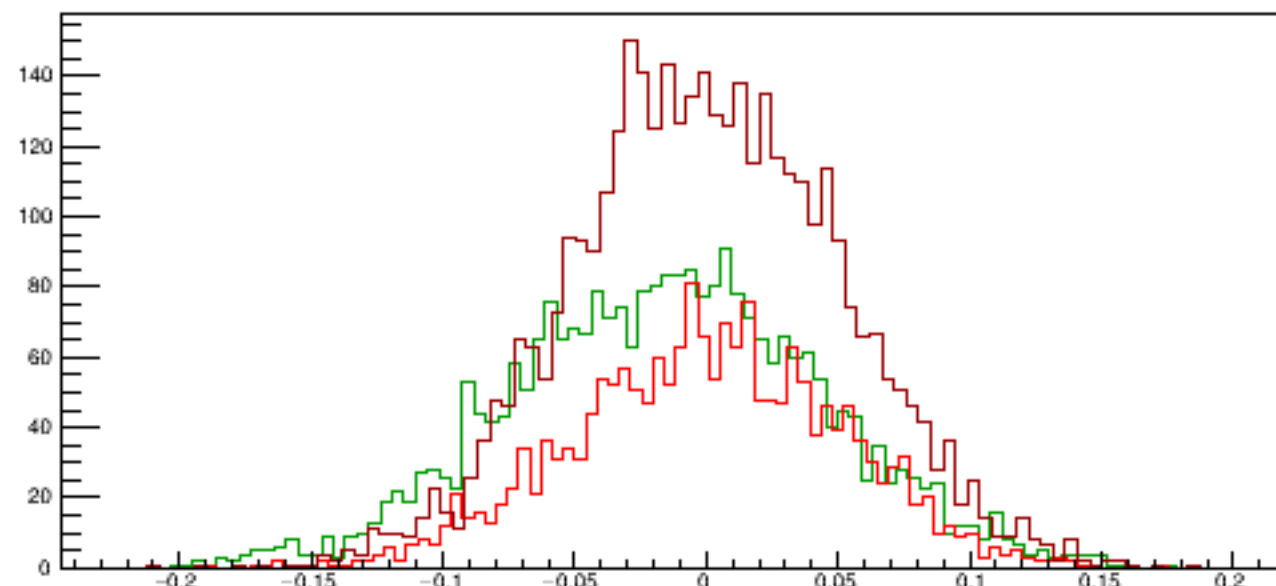
Std Dev: 0.0598 +/- 0.0008

Entries: 3881

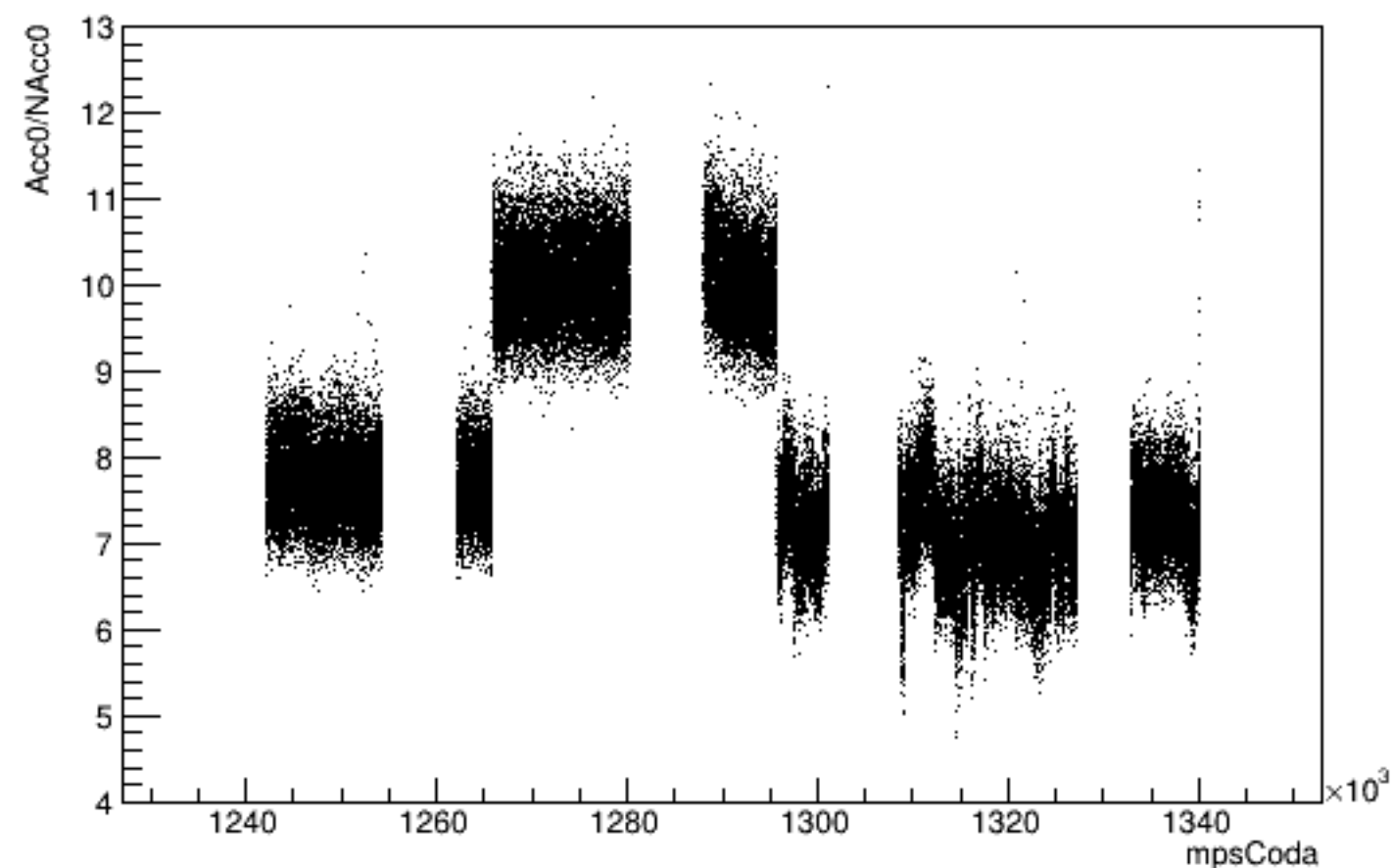
Mean: 0.0002 +/- 0.0008

Std Dev: 0.0512 +/- 0.0006

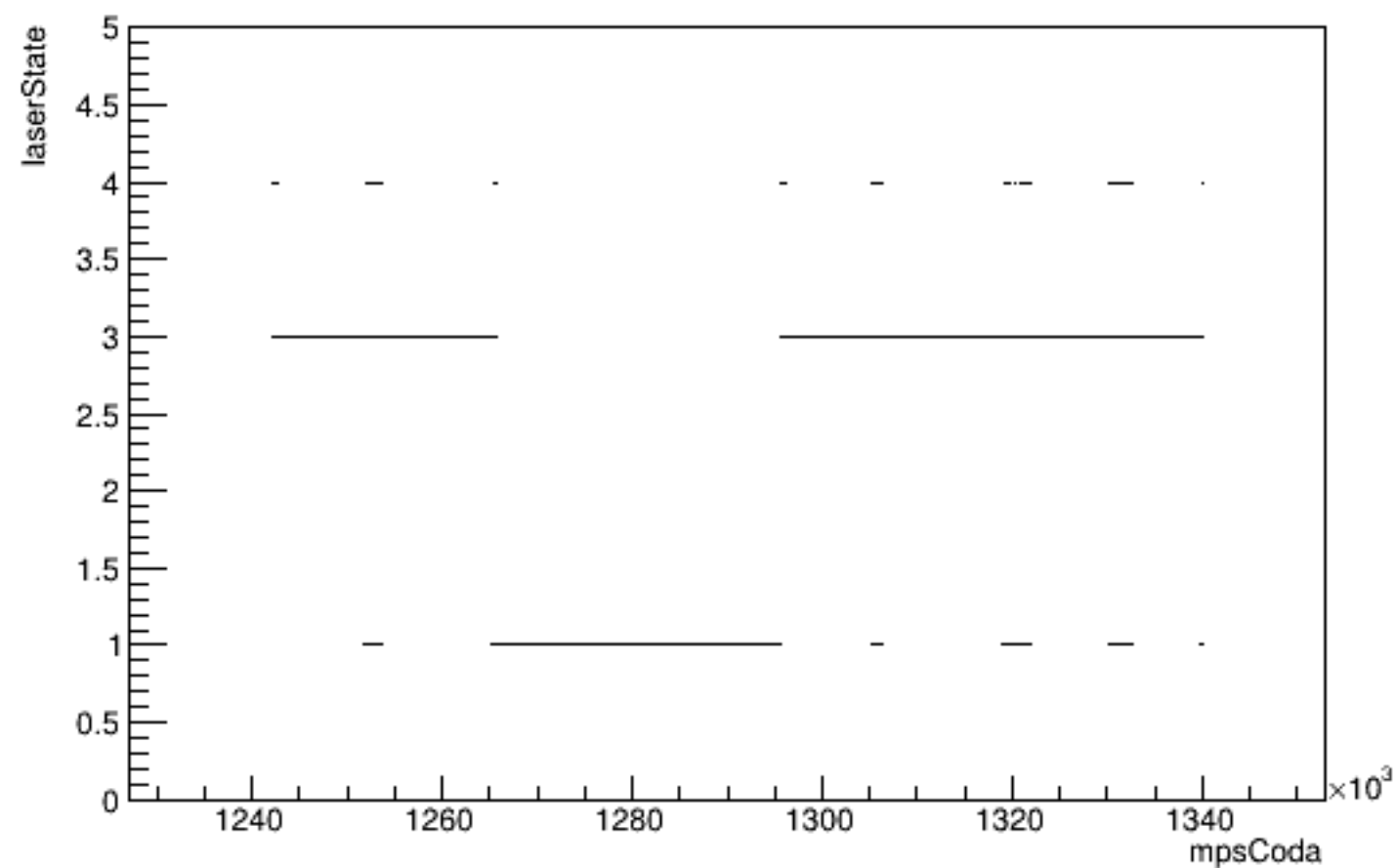
Run 4401 quartetwise, Asyms



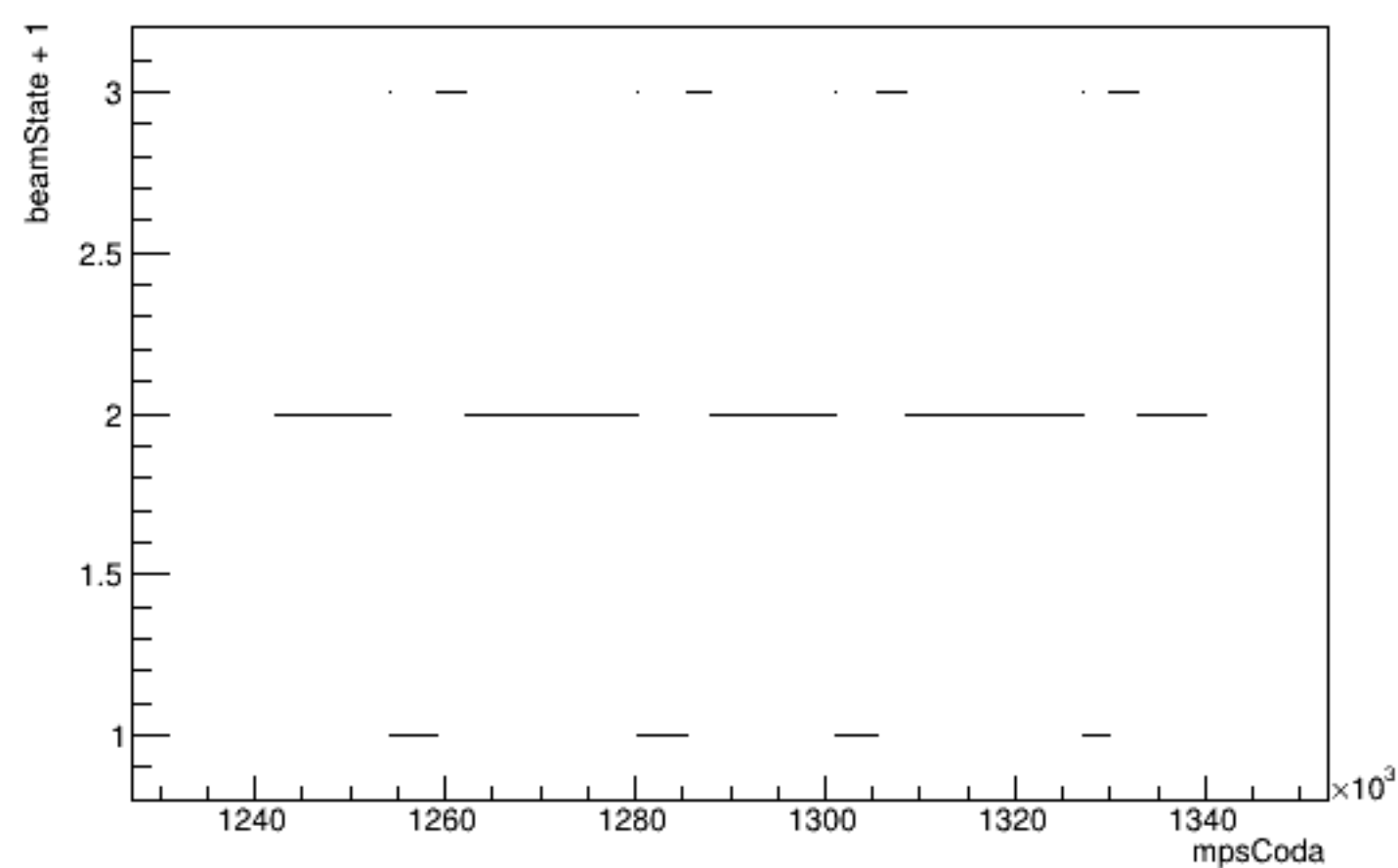
Acc0/NAcc0:mpsCoda (mpsCoda>=1242185 && mpsCoda<=1340144 && beamState==1)



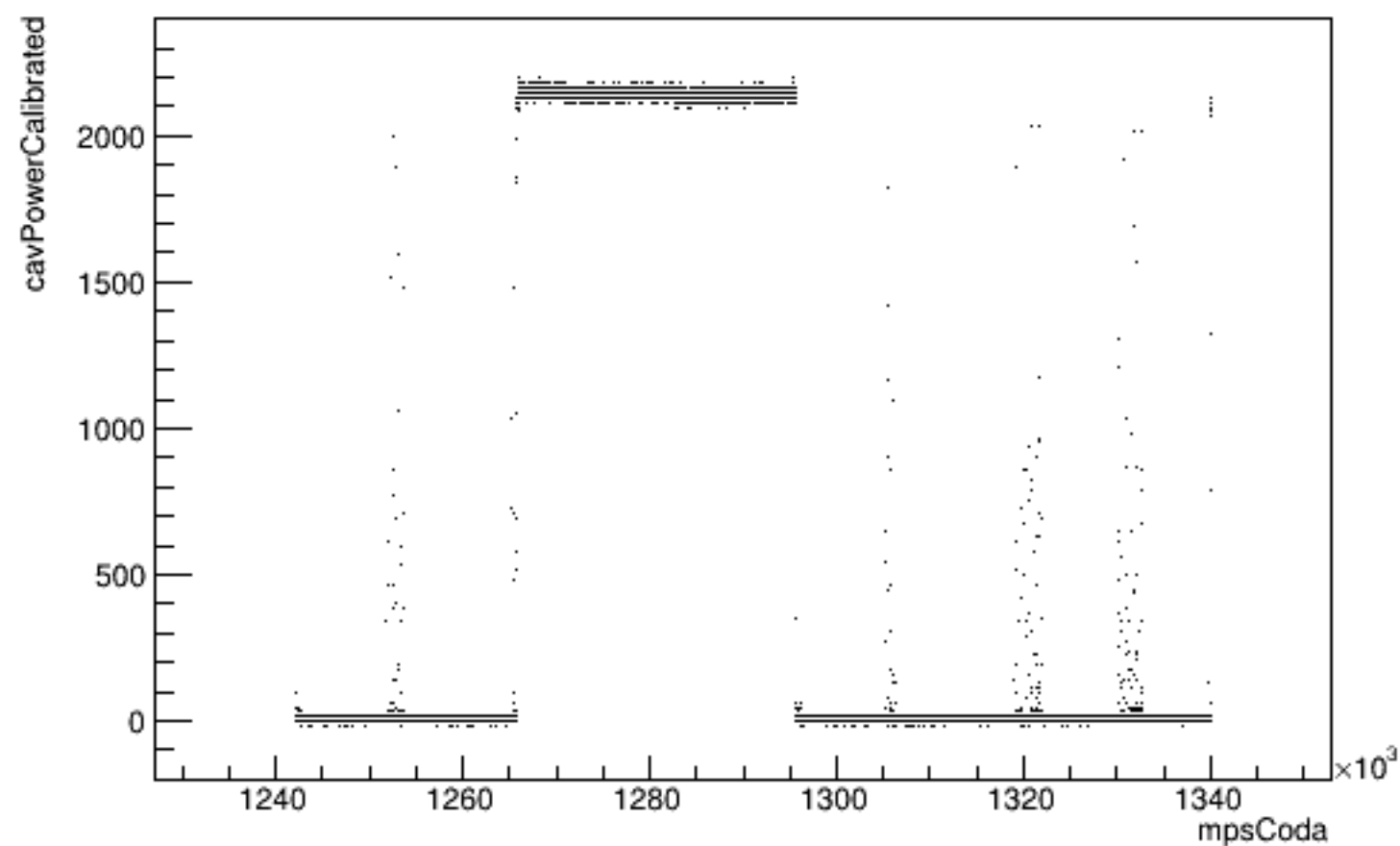
laserState:mpsCoda {mpsCoda&gt;=1242185 &amp;&amp; mpsCoda&lt;=1340144}



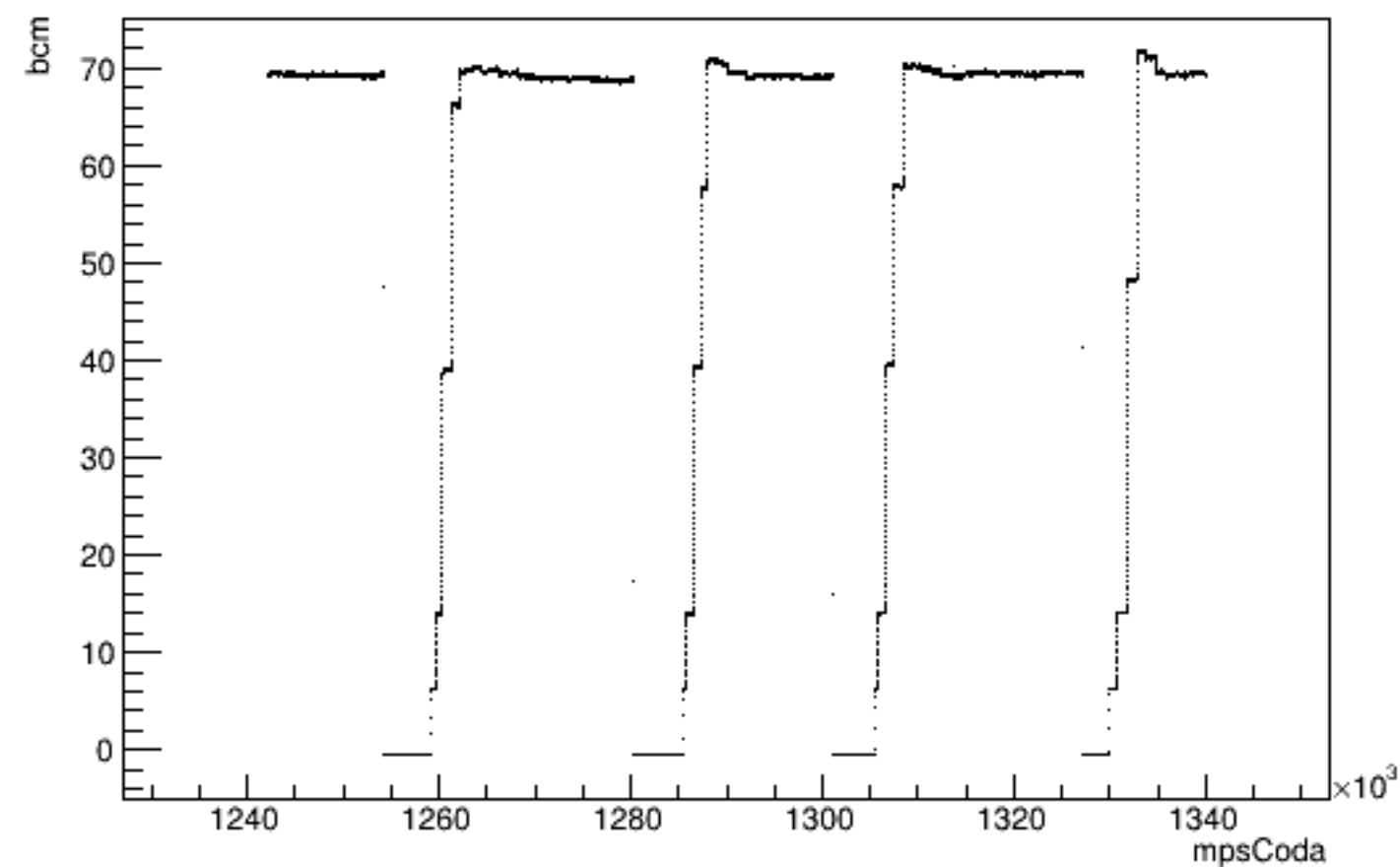
beamState + 1:mpsCoda {mpsCoda&gt;=1242185 &amp;&amp; mpsCoda&lt;=1340144}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1242185 &amp;&amp; mpsCoda&lt;=1340144}



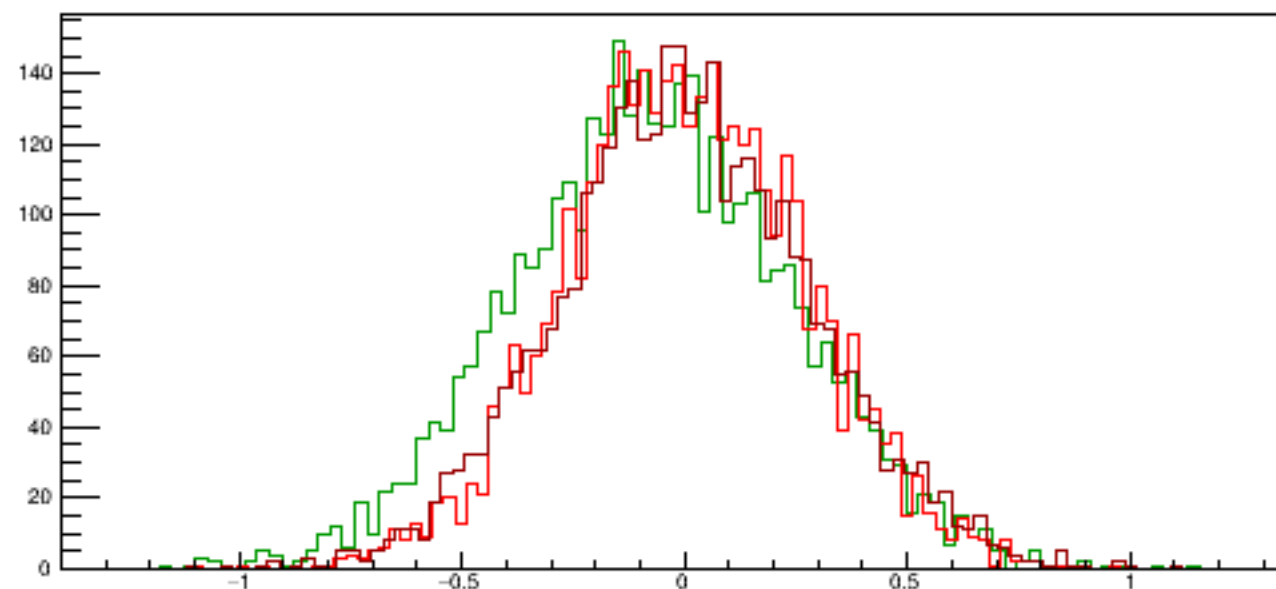
bcm:mpsCoda {mpsCoda&gt;=1242185 &amp;&amp; mpsCoda&lt;=1340144}



## Cycle 13, Diffs

| Entries: 3881              | Entries: 3713              | Entries: 3626              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0010 +/- 0.0043    | Mean: -0.0731 +/- 0.0051   | Mean: 0.0022 +/- 0.0047    |
| Std Dev: 0.2682 +/- 0.0030 | Std Dev: 0.3110 +/- 0.0036 | Std Dev: 0.2840 +/- 0.0033 |

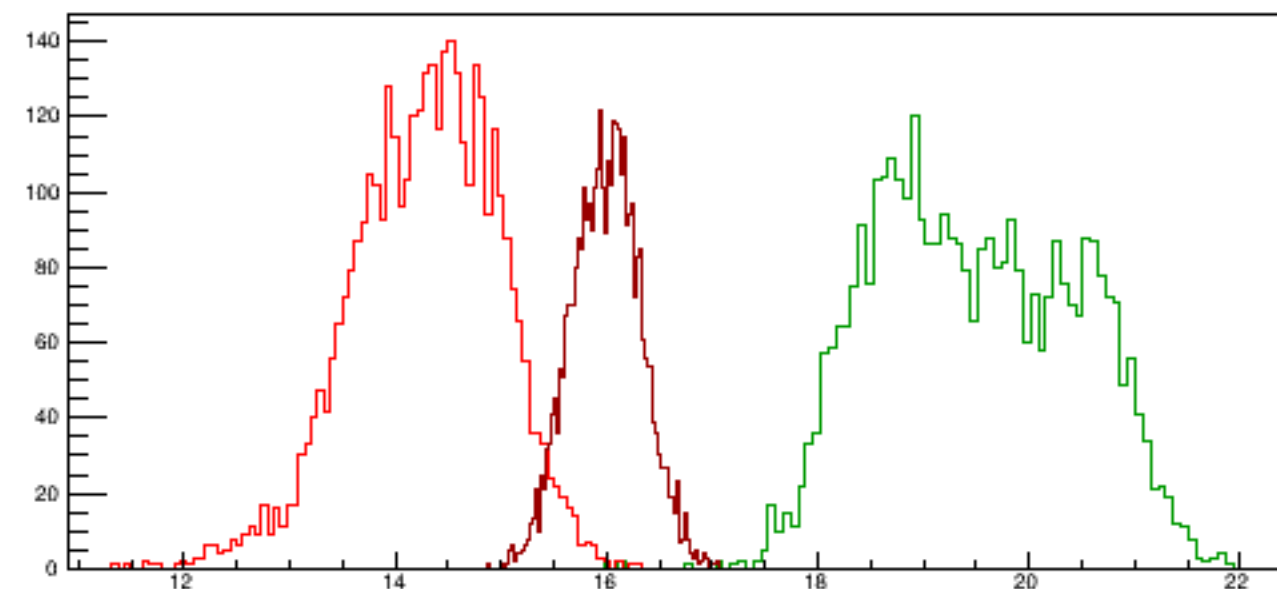
Run 4401 quartetwise, Diffs



## Cycle 13, Sums

| Entries: 3881              | Entries: 3713              | Entries: 3626              |
|----------------------------|----------------------------|----------------------------|
| Mean: 14.2834 +/- 0.0110   | Mean: 19.4797 +/- 0.0156   | Mean: 15.9985 +/- 0.0054   |
| Std Dev: 0.6863 +/- 0.0078 | Std Dev: 0.9515 +/- 0.0110 | Std Dev: 0.3274 +/- 0.0038 |

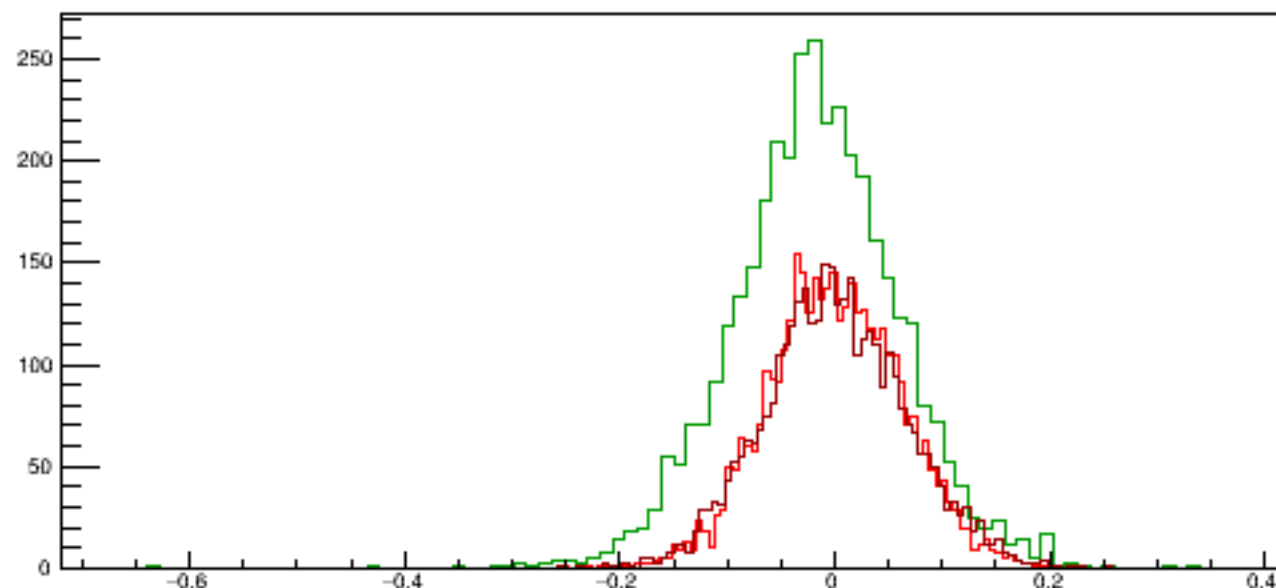
Run 4401 quartetwise, Sums



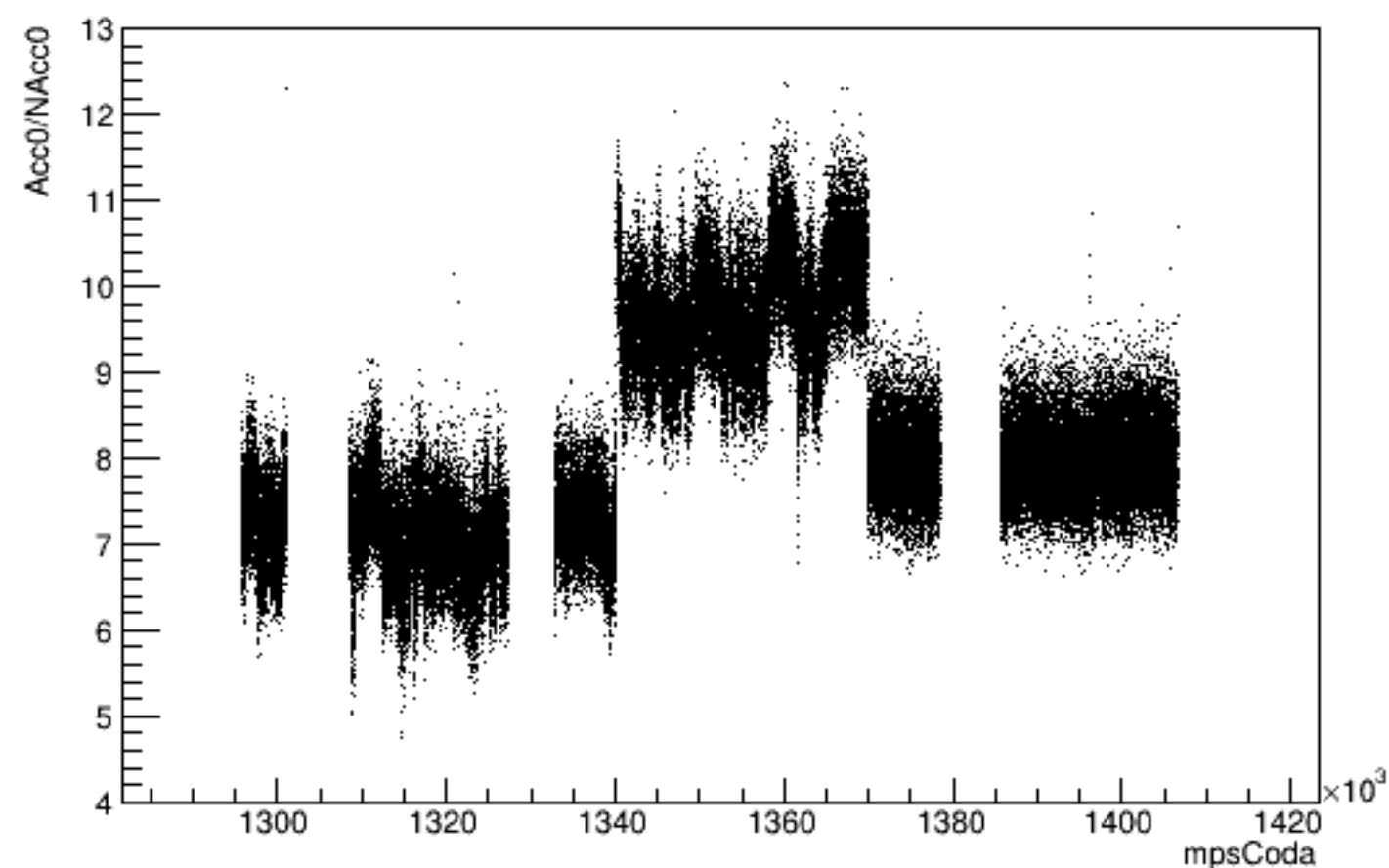
## Cycle 13, Asyms

| Entries: 3881              | Entries: 3713              | Entries: 3626              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0002 +/- 0.0010    | Mean: -0.0176 +/- 0.0013   | Mean: 0.0005 +/- 0.0011    |
| Std Dev: 0.0618 +/- 0.0007 | Std Dev: 0.0780 +/- 0.0009 | Std Dev: 0.0655 +/- 0.0008 |

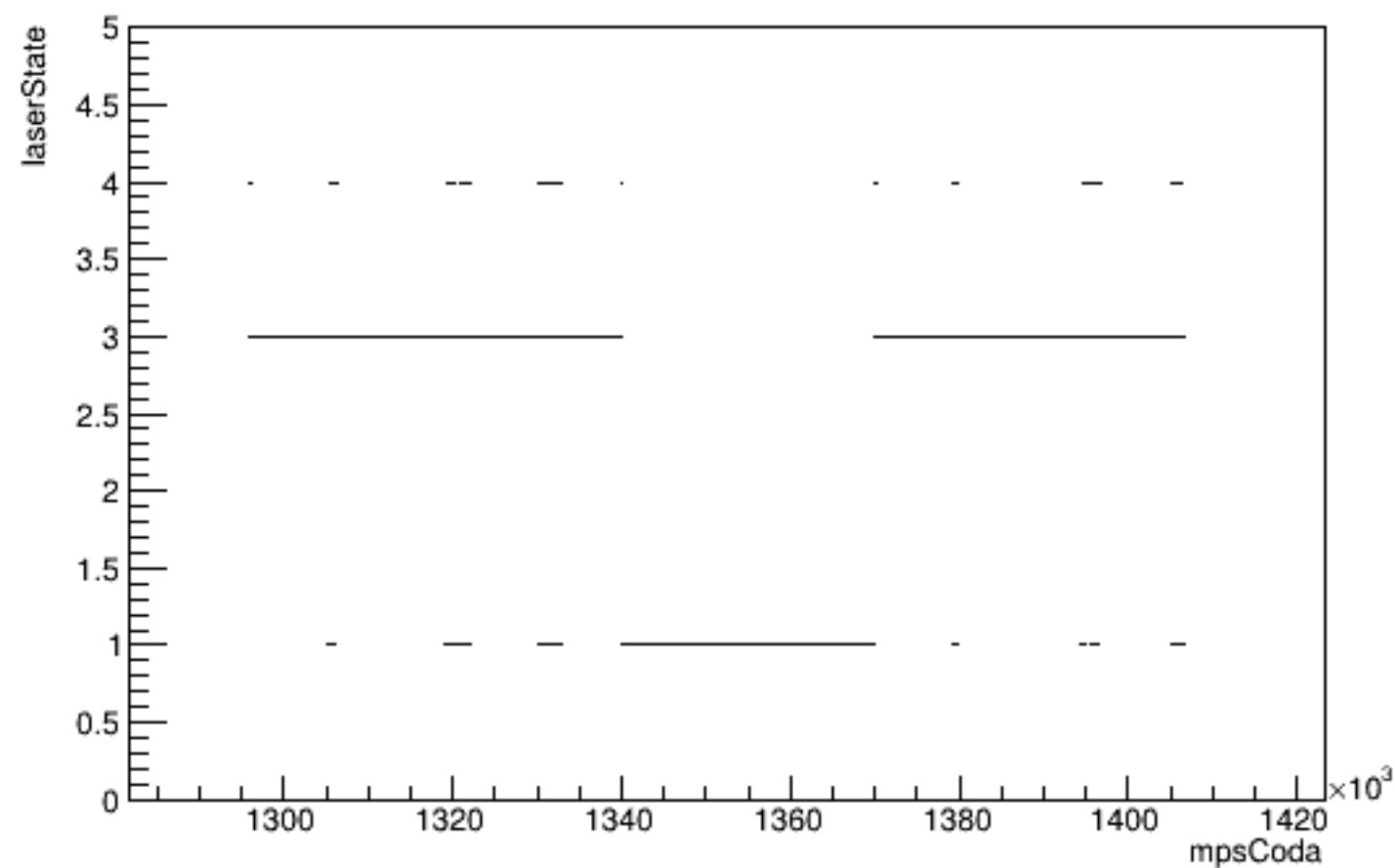
Run 4401 quartetwise, Asyms



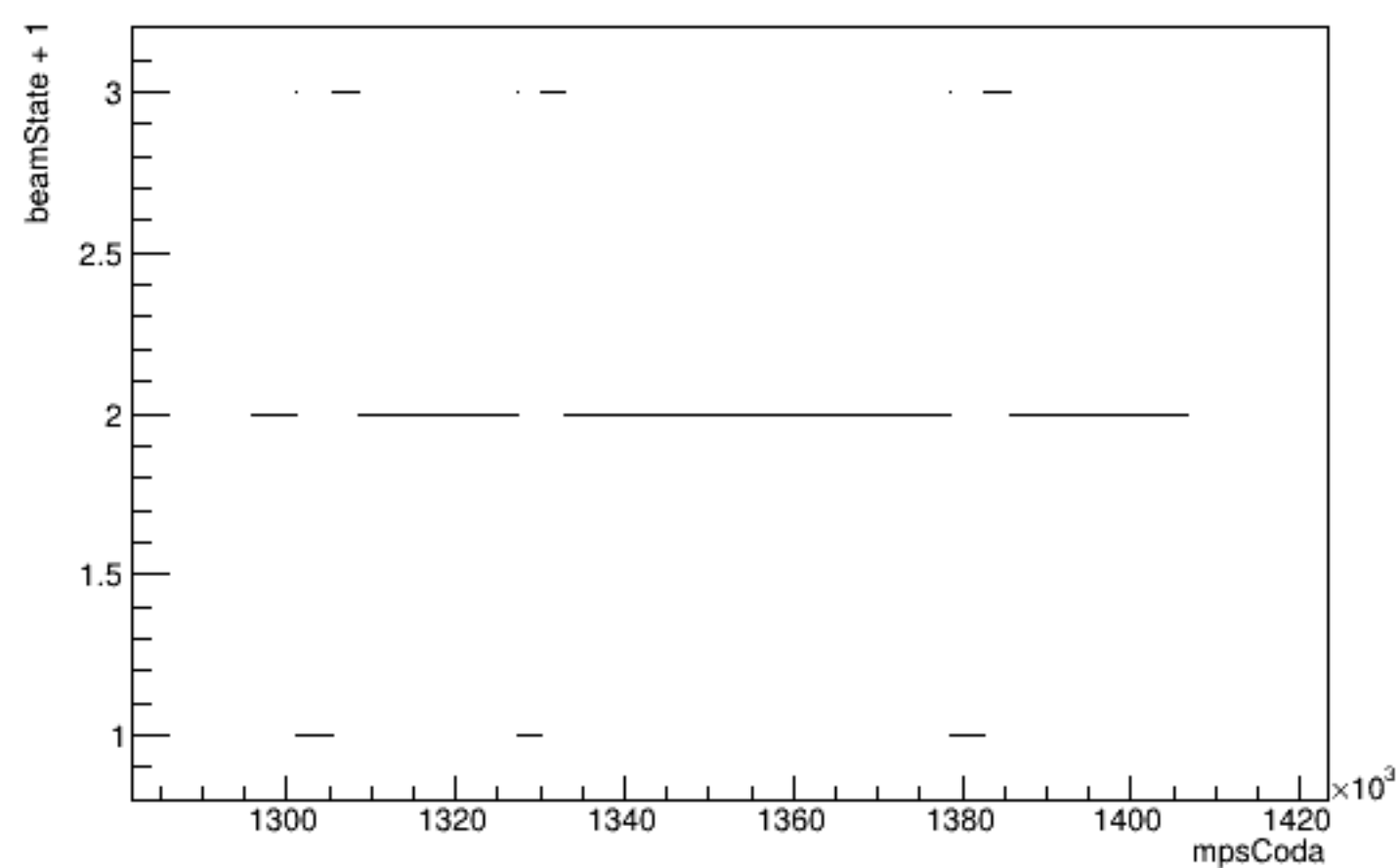
Acc0/NAcc0:mpsCoda (mpsCoda>=1295753 && mpsCoda<=1406552 && beamState==1)



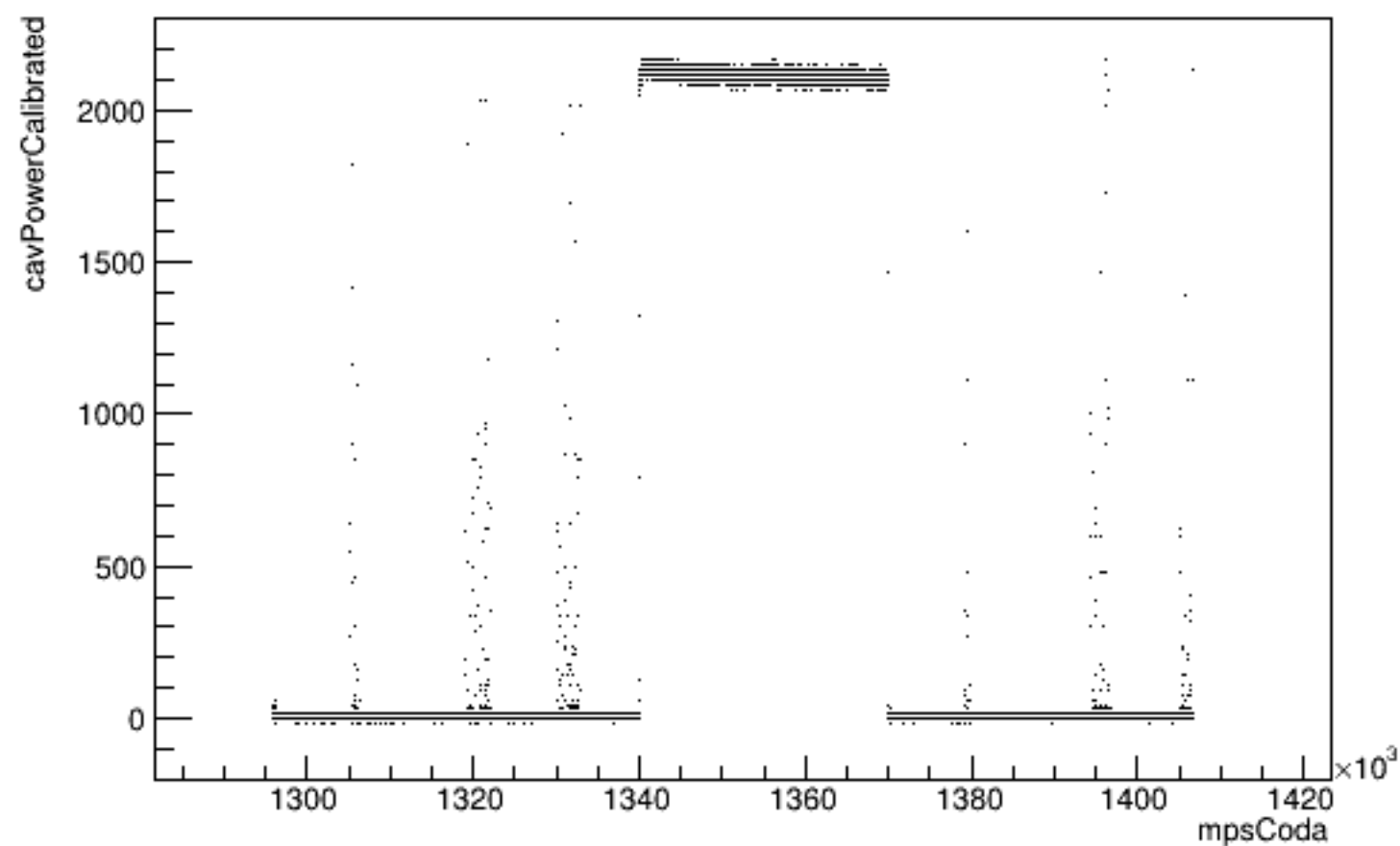
laserState:mpsCoda {mpsCoda&gt;=1295753 &amp;&amp; mpsCoda&lt;=1406552}



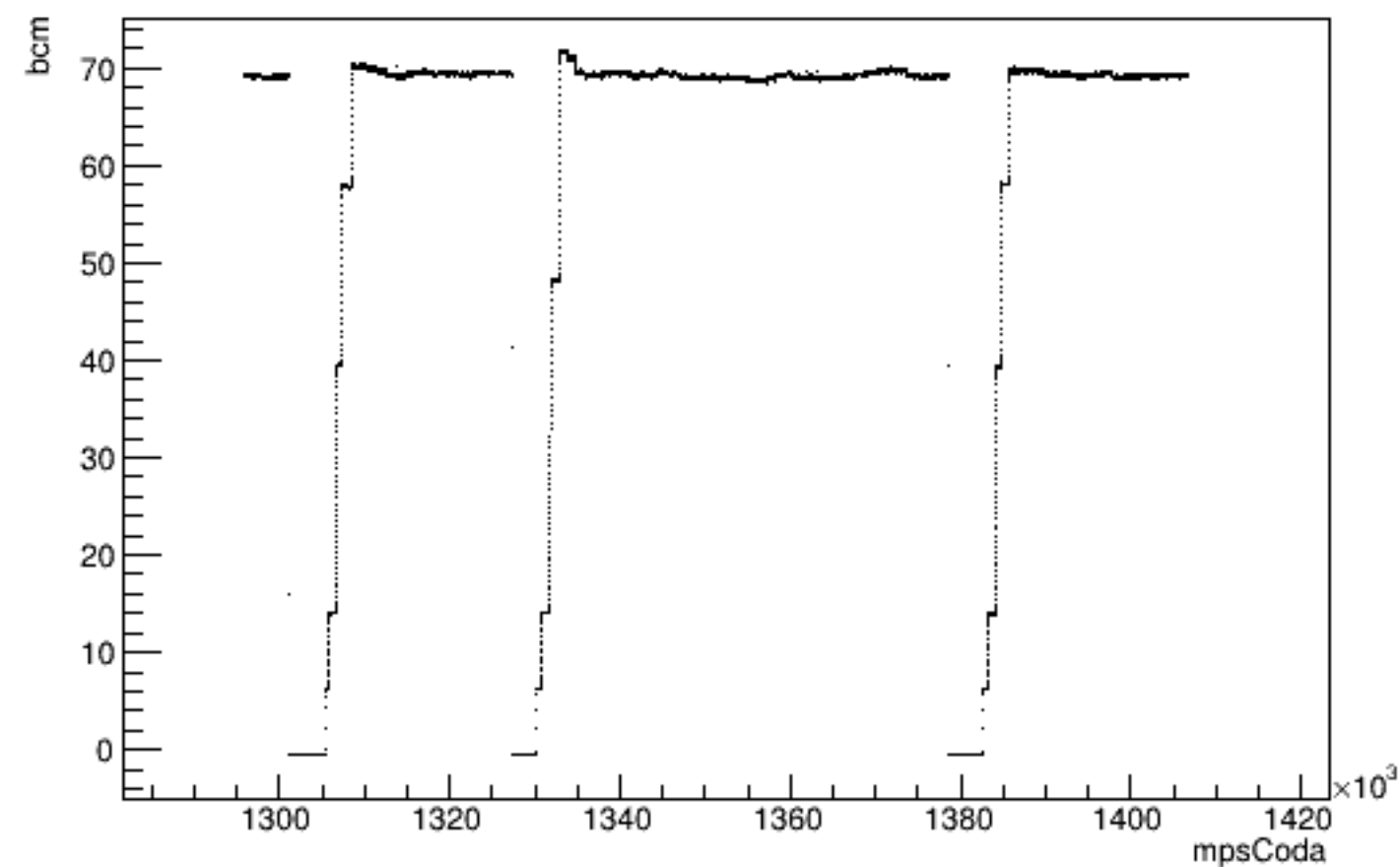
beamState + 1:mpsCoda {mpsCoda&gt;=1295753 &amp;&amp; mpsCoda&lt;=1406552}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1295753 &amp;&amp; mpsCoda&lt;=1406552}



bcm:mpsCoda {mpsCoda&gt;=1295753 &amp;&amp; mpsCoda&lt;=1406552}



## Cycle 14, Diffs

Entries: 3626

Mean: 0.0022 +/- 0.0047

Std Dev: 0.2840 +/- 0.0033

Entries: 3760

Mean: -0.0645 +/- 0.0052

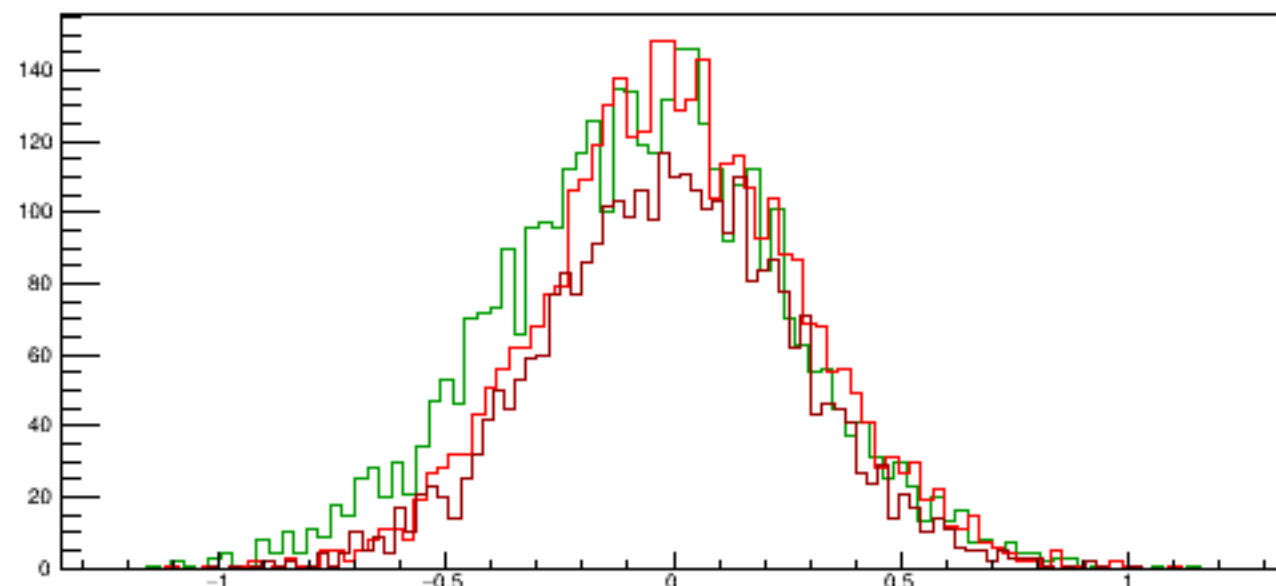
Std Dev: 0.3180 +/- 0.0037

Entries: 3134

Mean: -0.0092 +/- 0.0050

Std Dev: 0.2783 +/- 0.0035

Run 4401 quartetwise, Diffs



## Cycle 14, Sums

Entries: 3626

Mean: 15.9985 +/- 0.0054

Std Dev: 0.3274 +/- 0.0038

Entries: 3760

Mean: 20.1748 +/- 0.0114

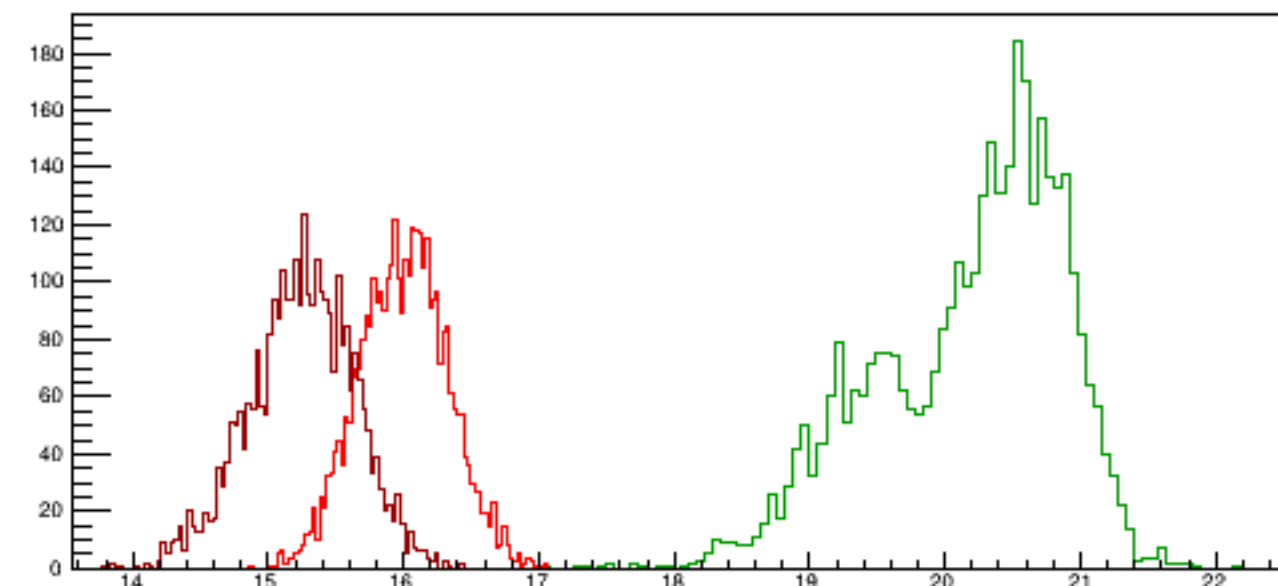
Std Dev: 0.7008 +/- 0.0081

Entries: 3134

Mean: 15.2425 +/- 0.0069

Std Dev: 0.3884 +/- 0.0049

Run 4401 quartetwise, Sums



## Cycle 14, Asyms

Entries: 3626

Mean: 0.0005 +/- 0.0010

Std Dev: 0.0624 +/- 0.0007

Entries: 3760

Mean: -0.0147 +/- 0.0012

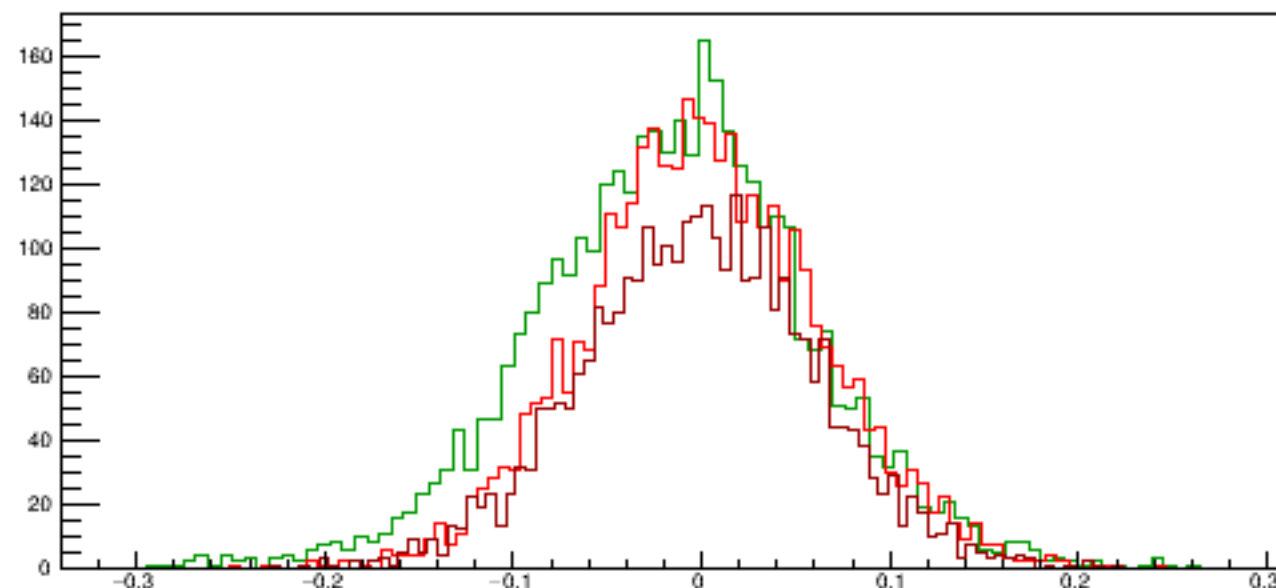
Std Dev: 0.0730 +/- 0.0008

Entries: 3134

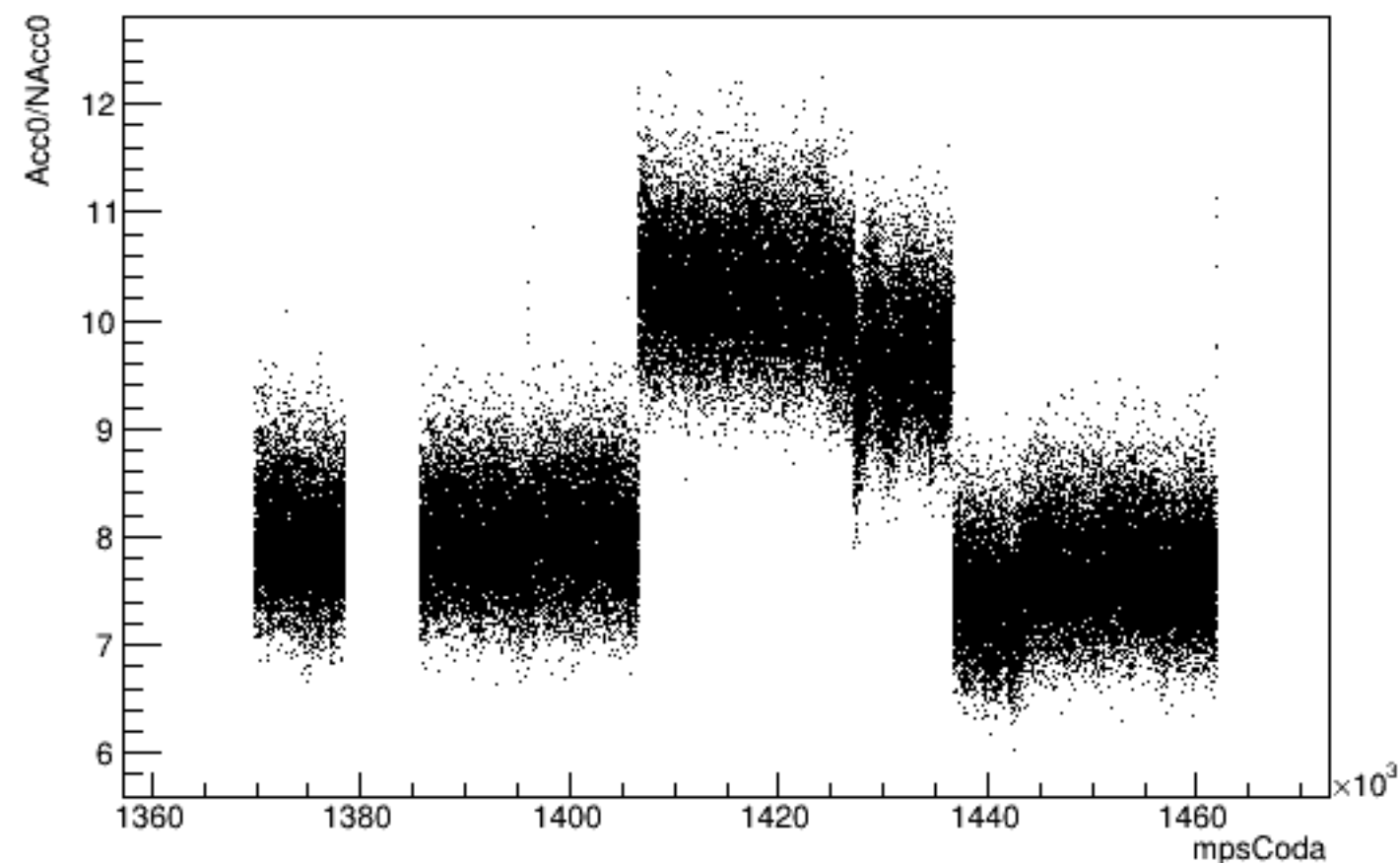
Mean: -0.0020 +/- 0.0011

Std Dev: 0.0611 +/- 0.0008

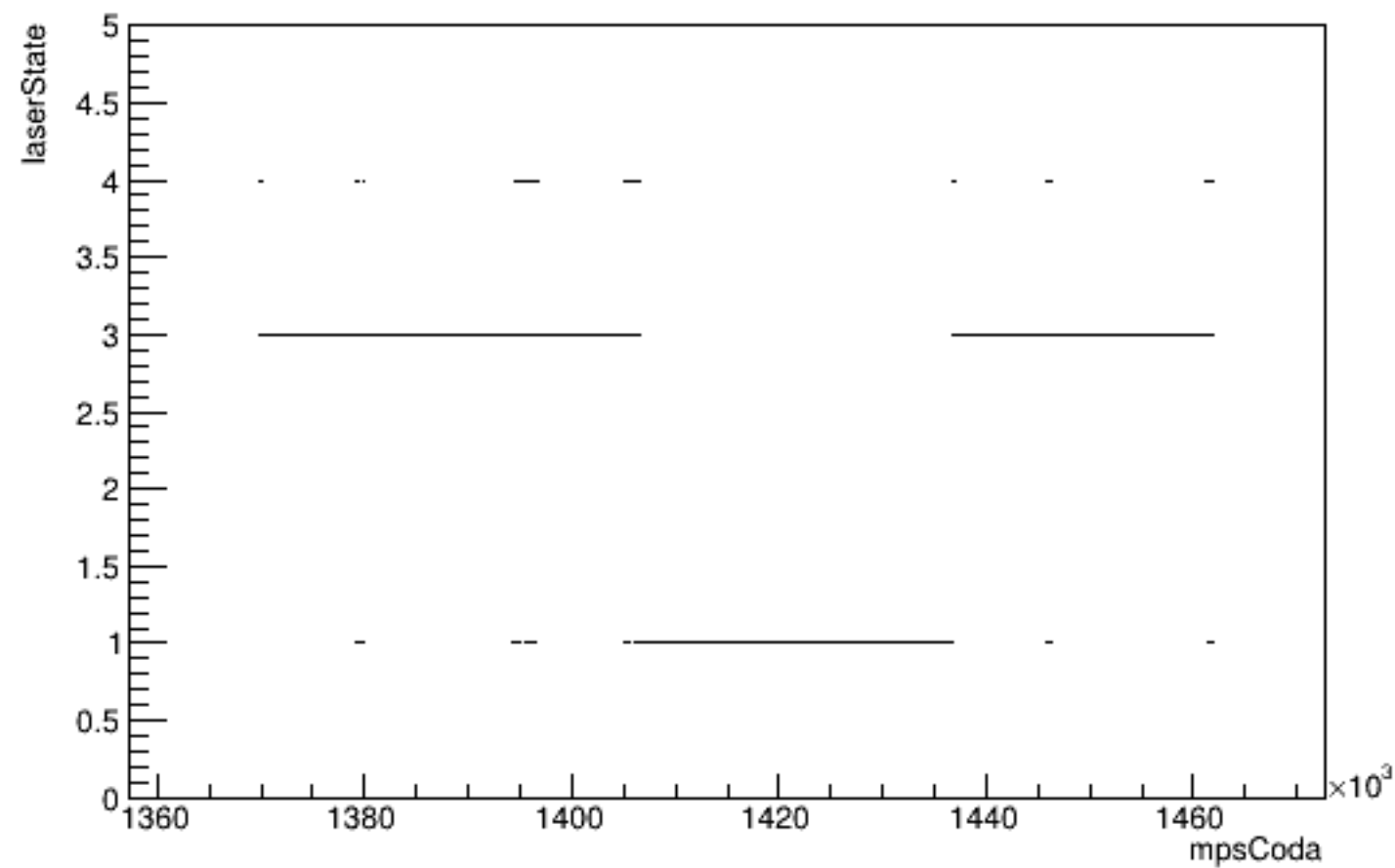
Run 4401 quartetwise, Asyms



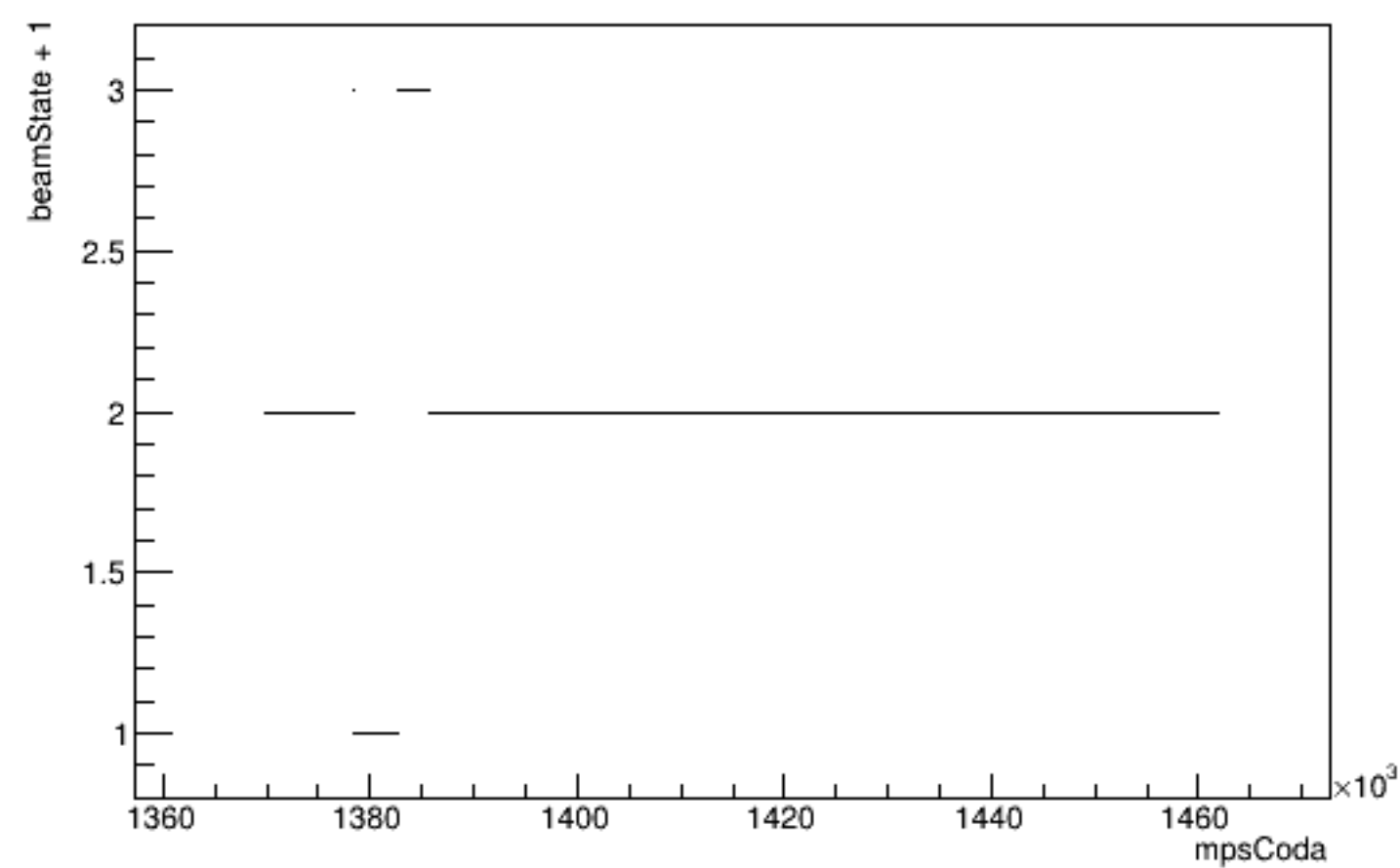
Acc0/NAcc0:mpsCoda (mpsCoda>=1369857 && mpsCoda<=1461880 && beamState==1)



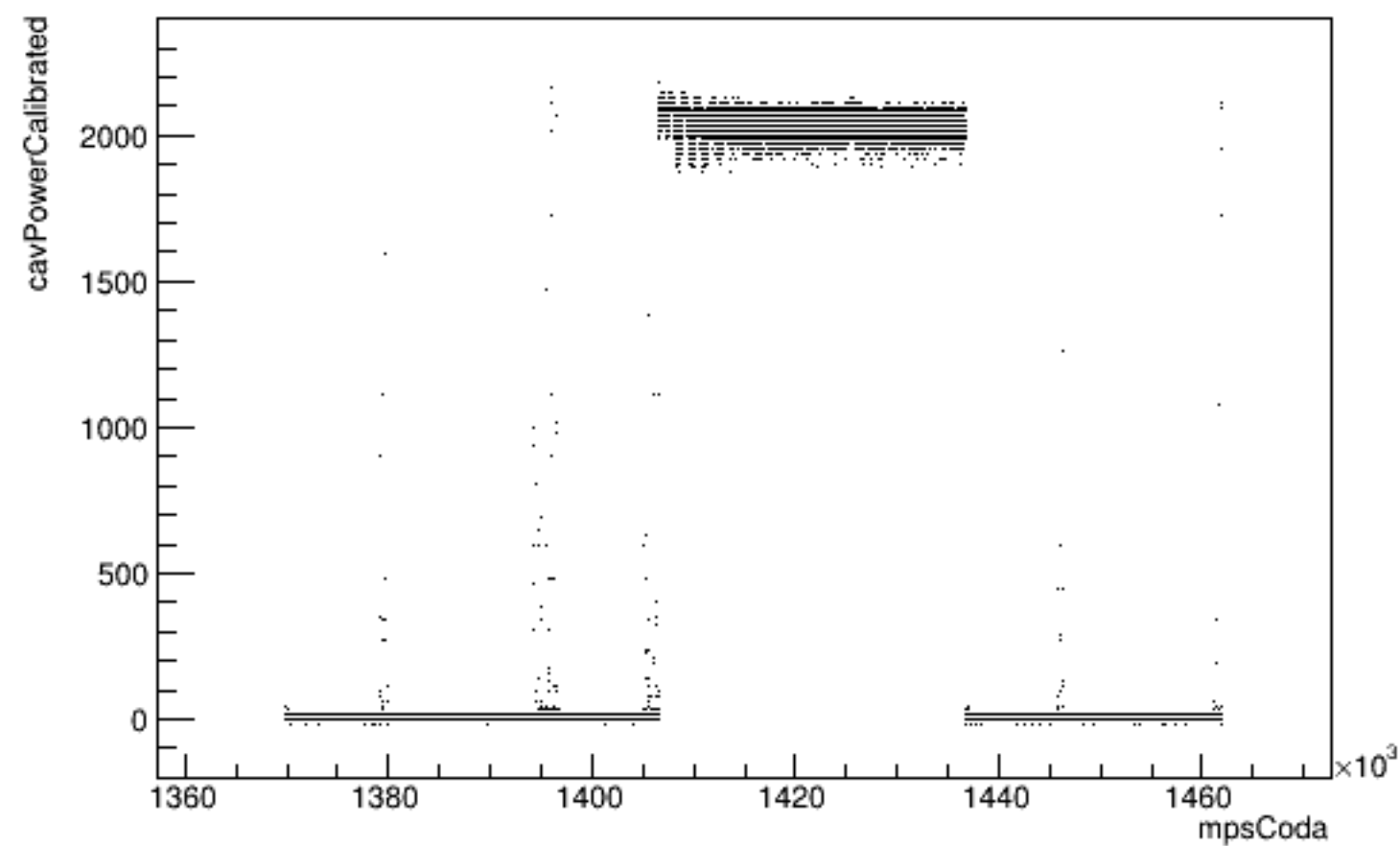
laserState:mpsCoda {mpsCoda&gt;=1369857 &amp;&amp; mpsCoda&lt;=1461880}



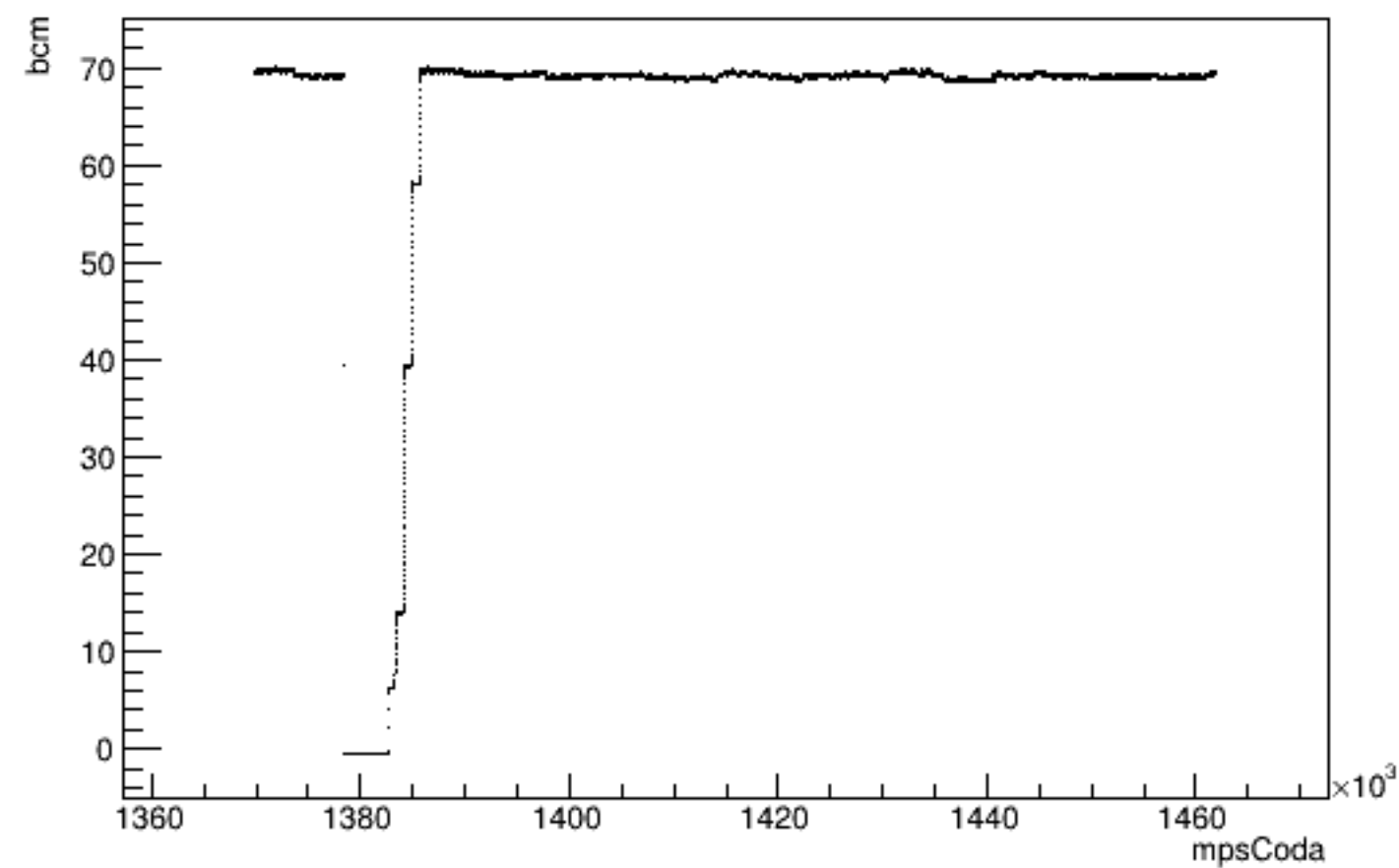
beamState + 1:mpsCoda {mpsCoda&gt;=1369857 &amp;&amp; mpsCoda&lt;=1461880}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1369857 &amp;&amp; mpsCoda&lt;=1461880}



bcm:mpsCoda {mpsCoda&gt;=1369857 &amp;&amp; mpsCoda&lt;=1461880}



## Cycle 15, Diffs

Entries: 3134

Mean: -0.0092 +/- 0.0050

Std Dev: 0.2783 +/- 0.0035

Entries: 3746

Mean: -0.0683 +/- 0.0051

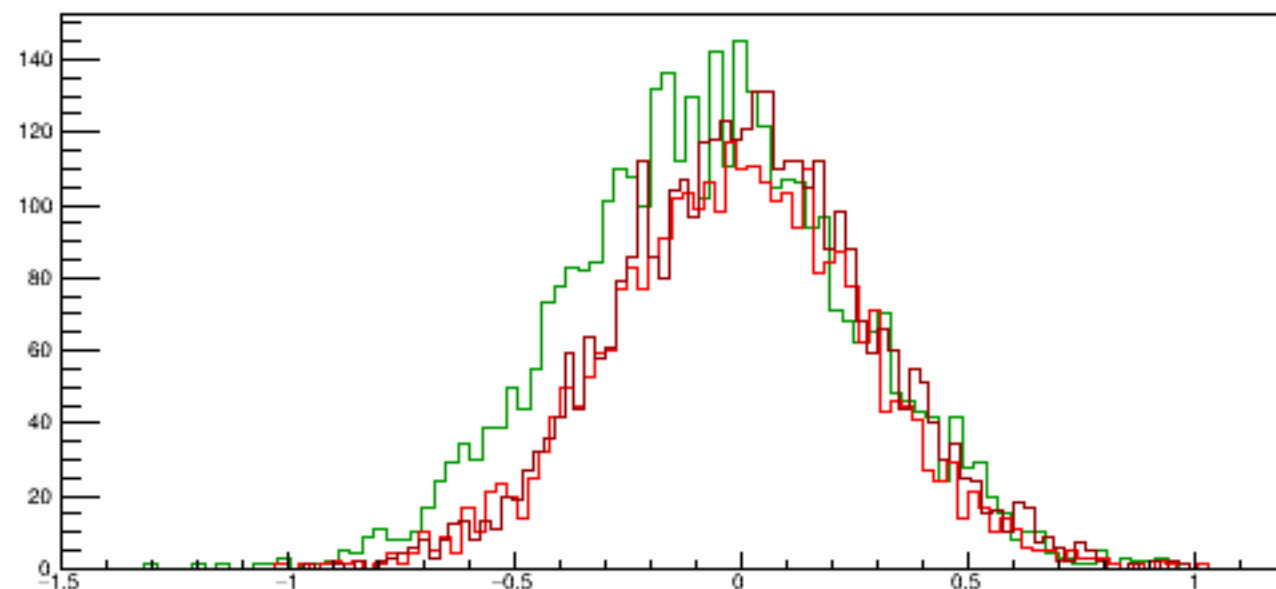
Std Dev: 0.3121 +/- 0.0036

Entries: 3668

Mean: 0.0084 +/- 0.0046

Std Dev: 0.2797 +/- 0.0033

Run 4401 quartetwise, Diffs



## Cycle 15, Sums

Entries: 3134

Mean: 15.2425 +/- 0.0069

Std Dev: 0.3884 +/- 0.0049

Entries: 3746

Mean: 20.5442 +/- 0.0074

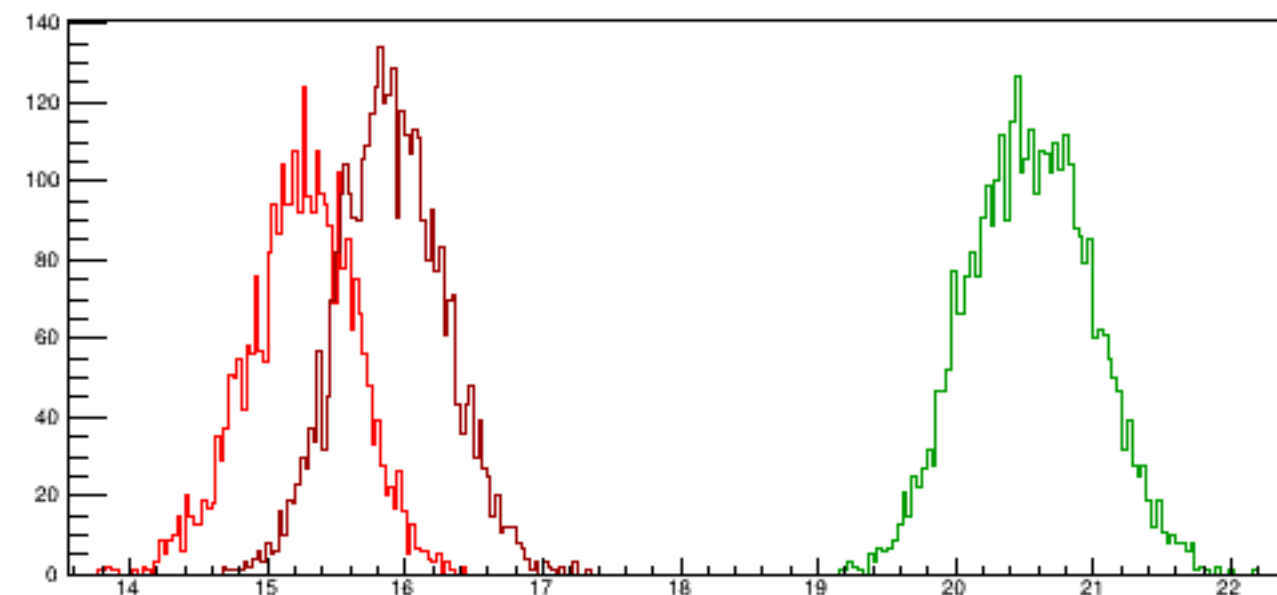
Std Dev: 0.4523 +/- 0.0052

Entries: 3668

Mean: 15.9076 +/- 0.0063

Std Dev: 0.3801 +/- 0.0044

Run 4401 quartetwise, Sums



## Cycle 15, Asyms

Entries: 3134

Mean: -0.0018 +/- 0.0010

Std Dev: 0.0560 +/- 0.0007

Entries: 3746

Mean: -0.0140 +/- 0.0010

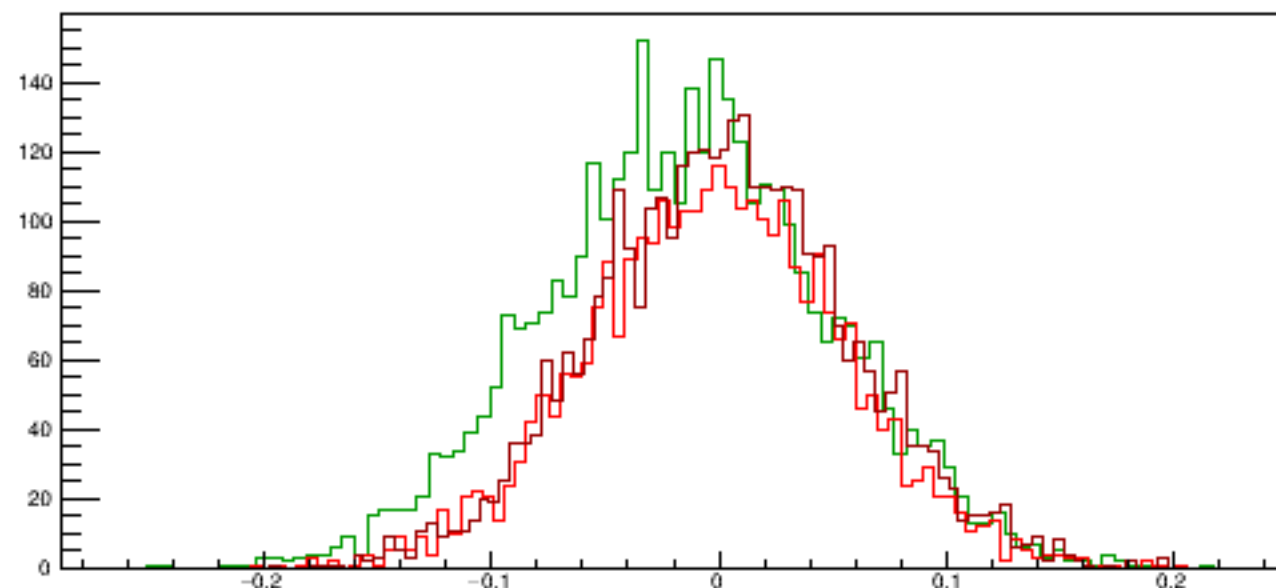
Std Dev: 0.0633 +/- 0.0007

Entries: 3668

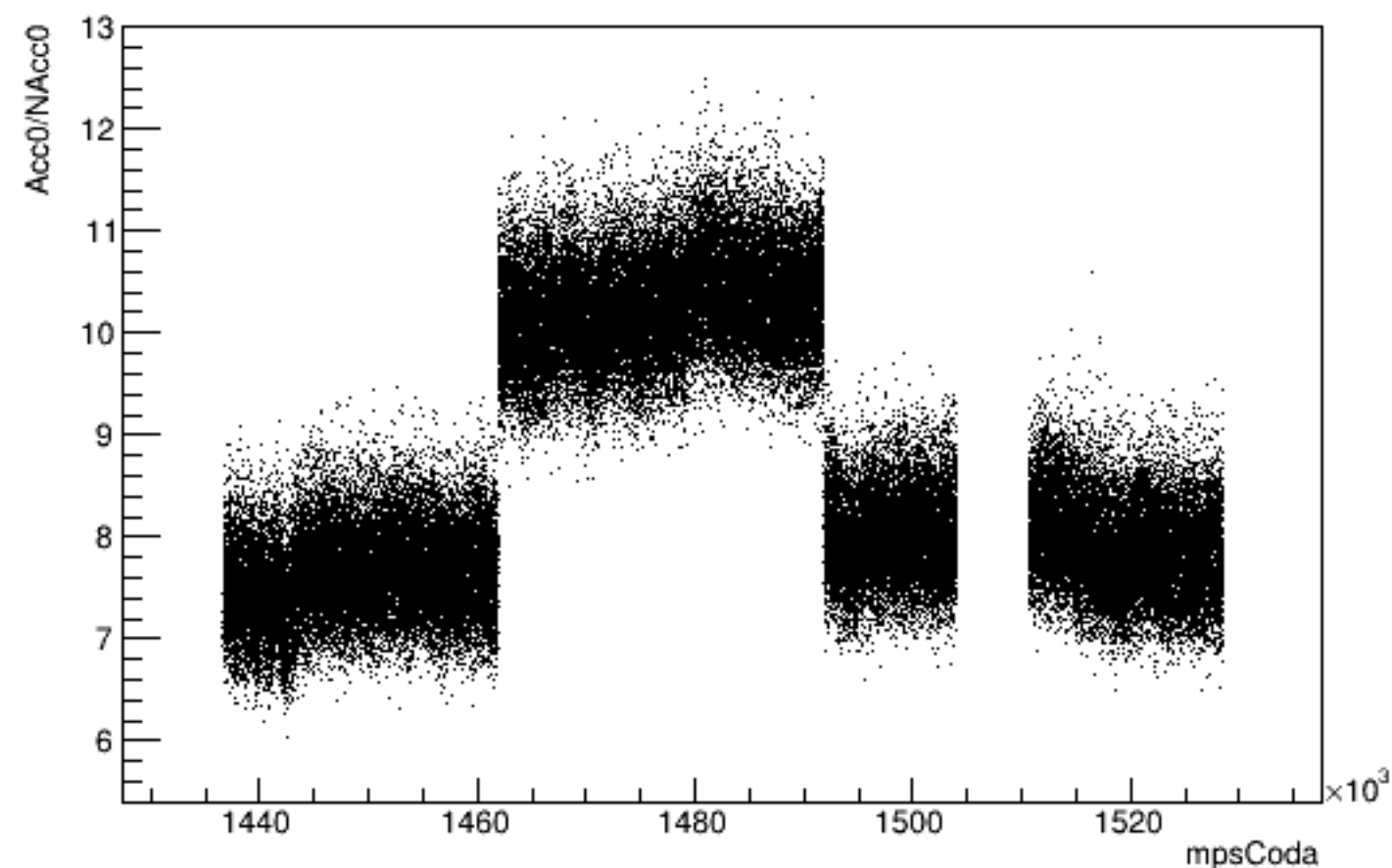
Mean: 0.0017 +/- 0.0009

Std Dev: 0.0563 +/- 0.0007

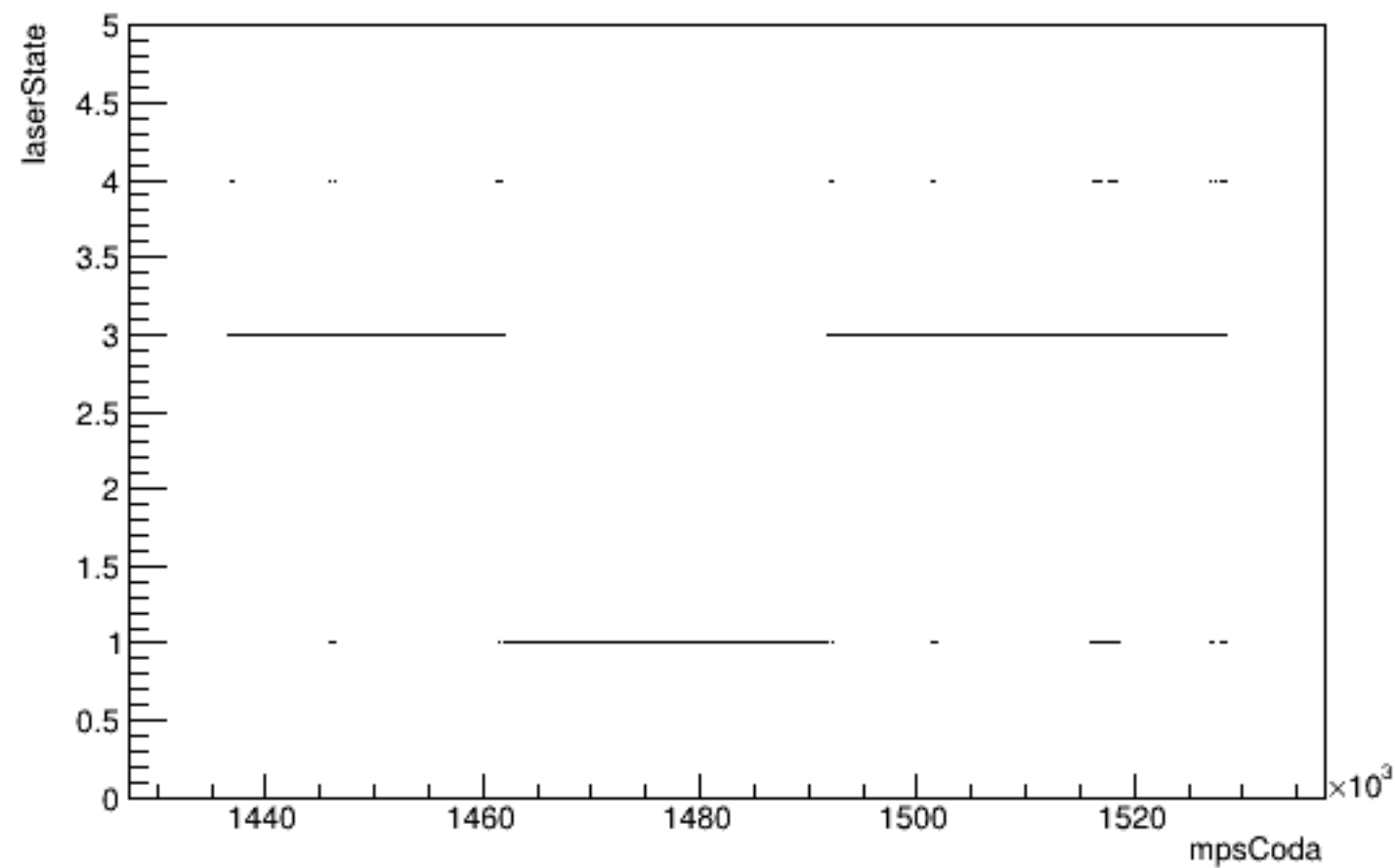
Run 4401 quartetwise, Asyms



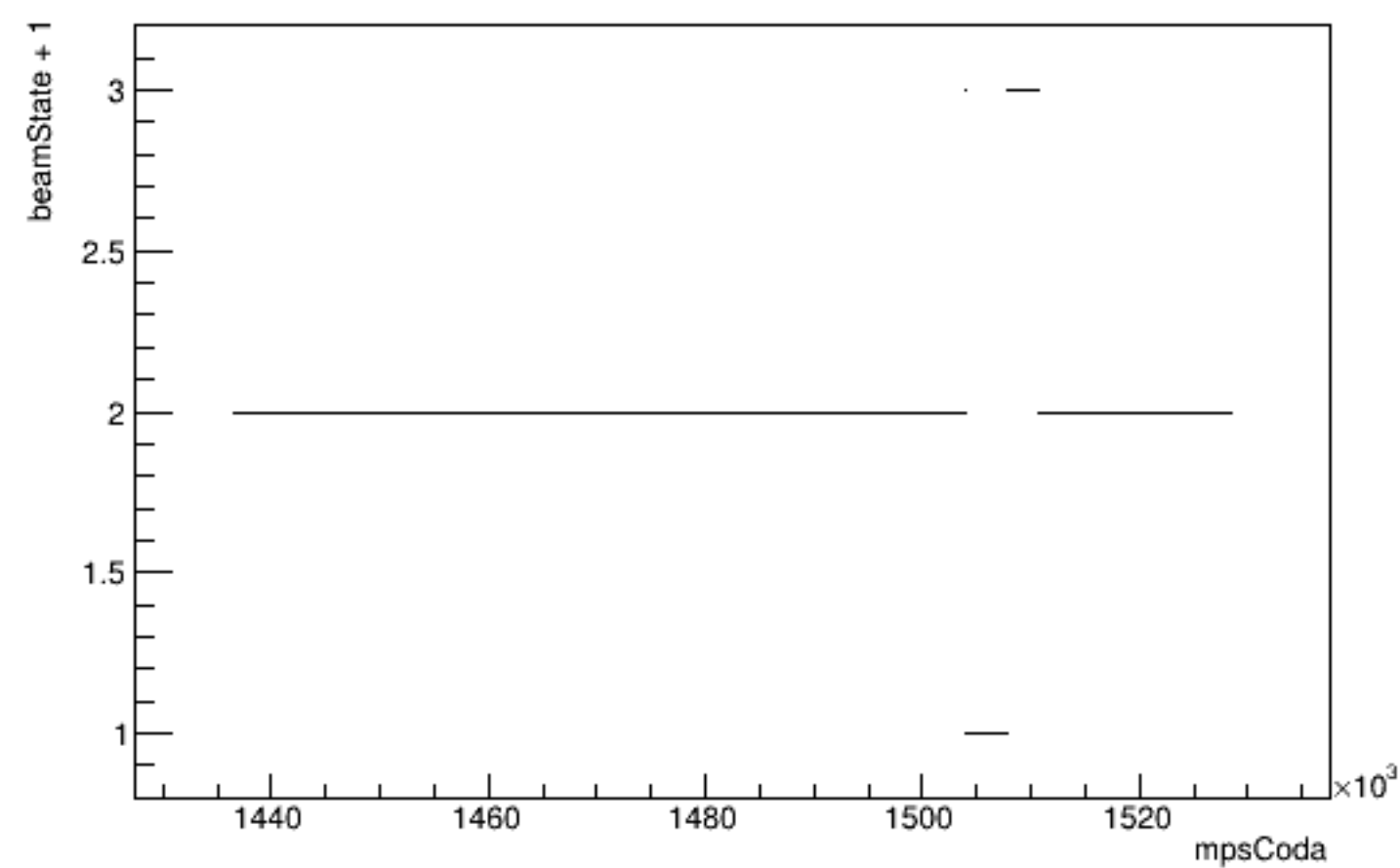
Acc0/NAcc0:mpsCoda (mpsCoda>=1436641 && mpsCoda<=1528488 && beamState==1)



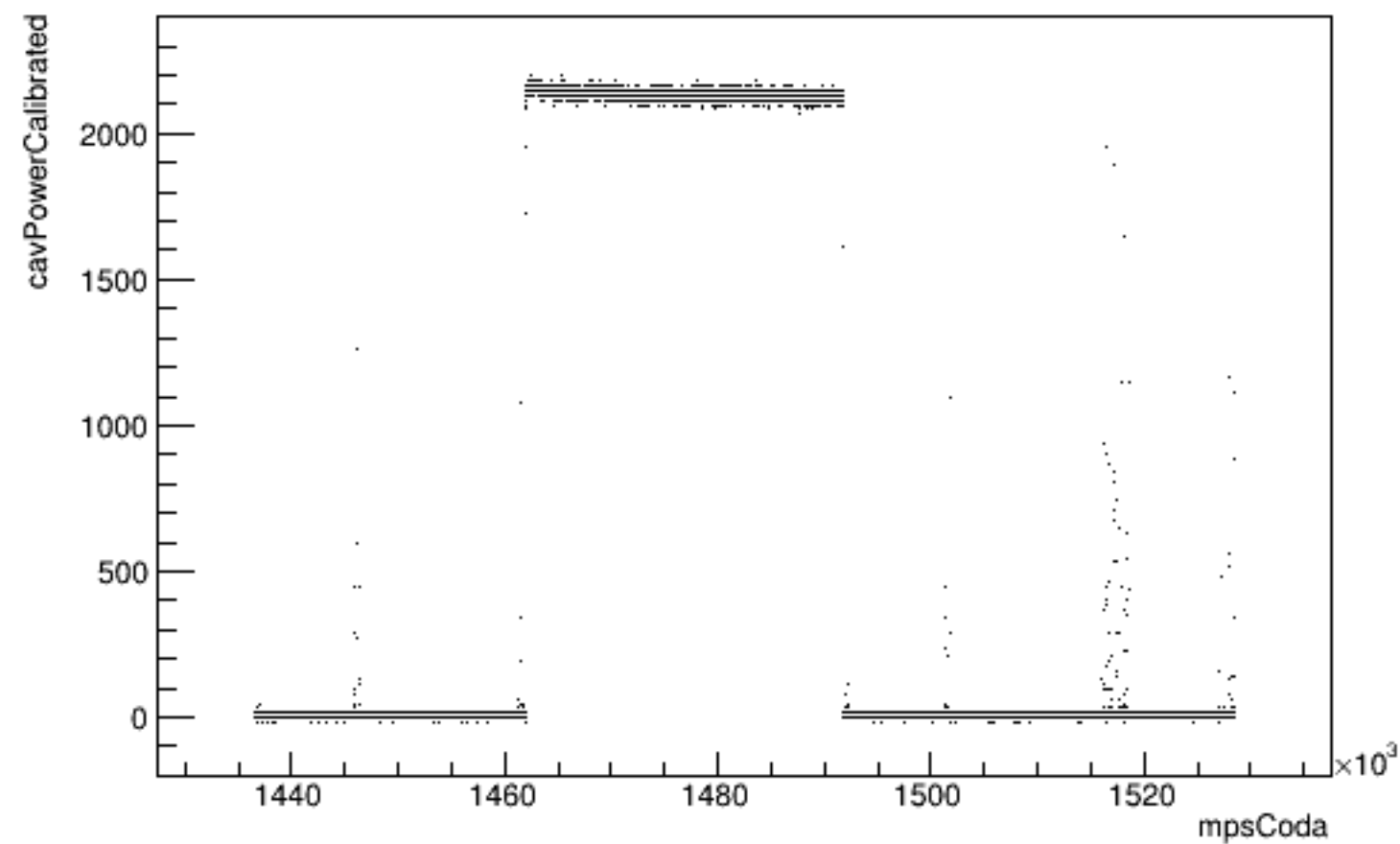
laserState:mpsCoda {mpsCoda&gt;=1436641 &amp;&amp; mpsCoda&lt;=1528488}



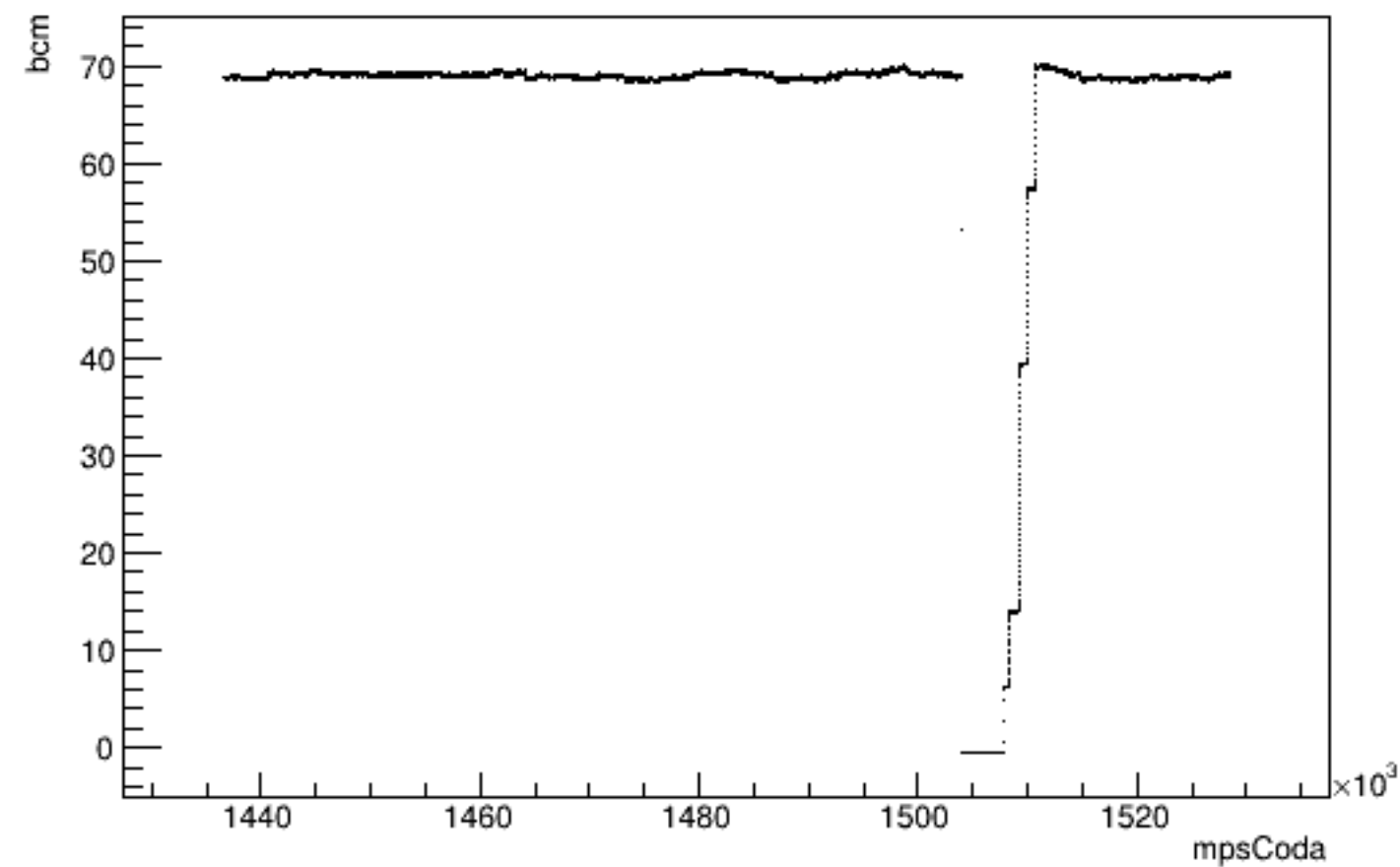
beamState + 1:mpsCoda {mpsCoda&gt;=1436641 &amp;&amp; mpsCoda&lt;=1528488}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1436641 &amp;&amp; mpsCoda&lt;=1528488}



bcm:mpsCoda {mpsCoda&gt;=1436641 &amp;&amp; mpsCoda&lt;=1528488}



## Cycle 16, Diffs

Entries: 3668

Mean: 0.0084 +/- 0.0046

Std Dev: 0.2797 +/- 0.0033

Entries: 3672

Mean: -0.0683 +/- 0.0051

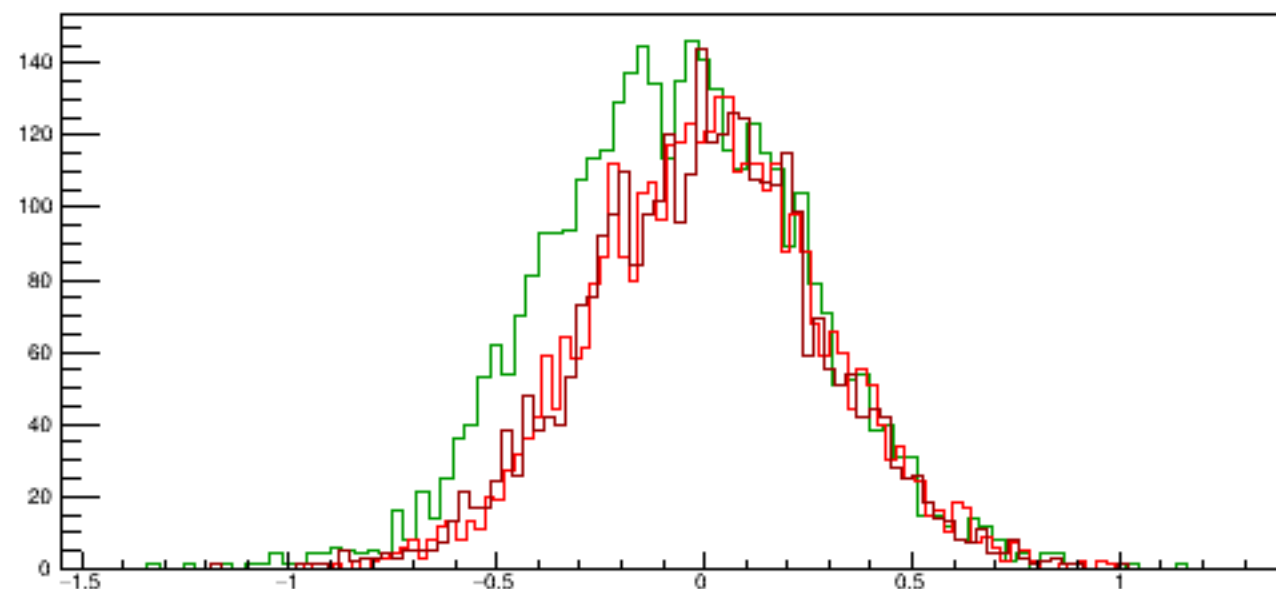
Std Dev: 0.3096 +/- 0.0036

Entries: 3242

Mean: -0.0012 +/- 0.0050

Std Dev: 0.2826 +/- 0.0035

Run 4401 quartetwise, Diffs



## Cycle 16, Sums

Entries: 3668

Mean: 15.9076 +/- 0.0063

Std Dev: 0.3801 +/- 0.0044

Entries: 3672

Mean: 20.3307 +/- 0.0062

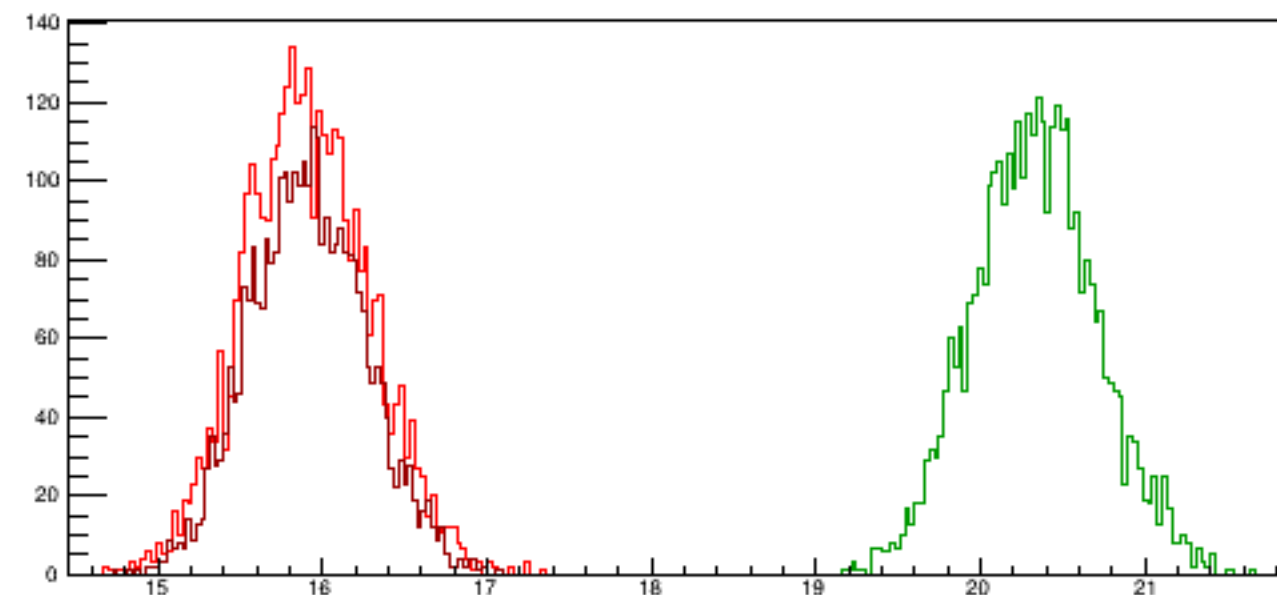
Std Dev: 0.3782 +/- 0.0044

Entries: 3242

Mean: 15.9100 +/- 0.0061

Std Dev: 0.3495 +/- 0.0043

Run 4401 quartetwise, Sums



## Cycle 16, Asyms

Entries: 3668

Mean: 0.0019 +/- 0.0010

Std Dev: 0.0633 +/- 0.0007

Entries: 3672

Mean: -0.0156 +/- 0.0012

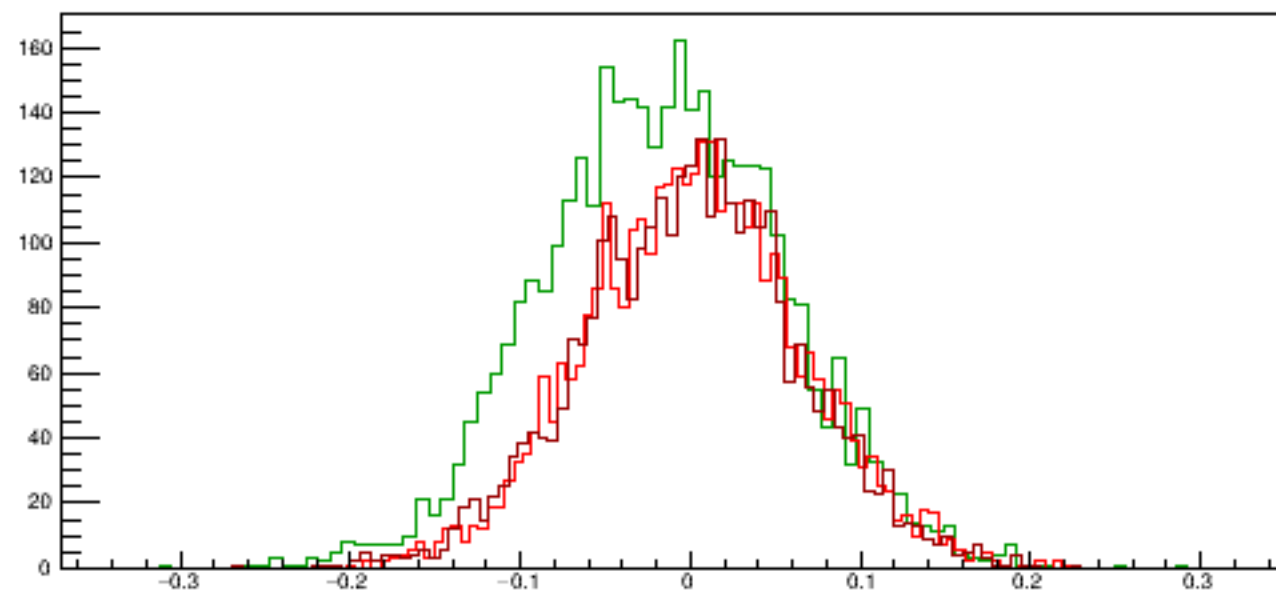
Std Dev: 0.0705 +/- 0.0008

Entries: 3242

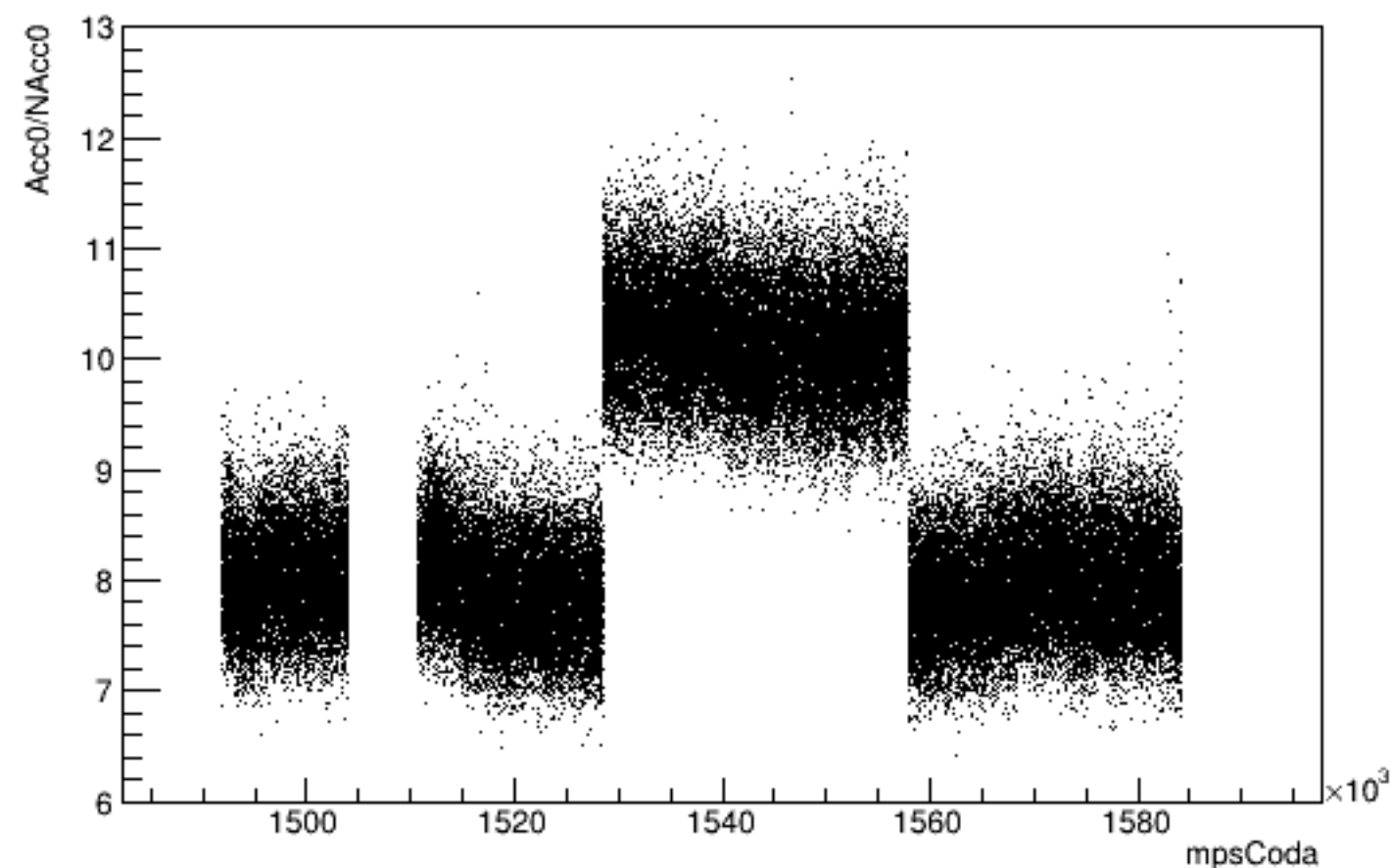
Mean: -0.0003 +/- 0.0011

Std Dev: 0.0639 +/- 0.0008

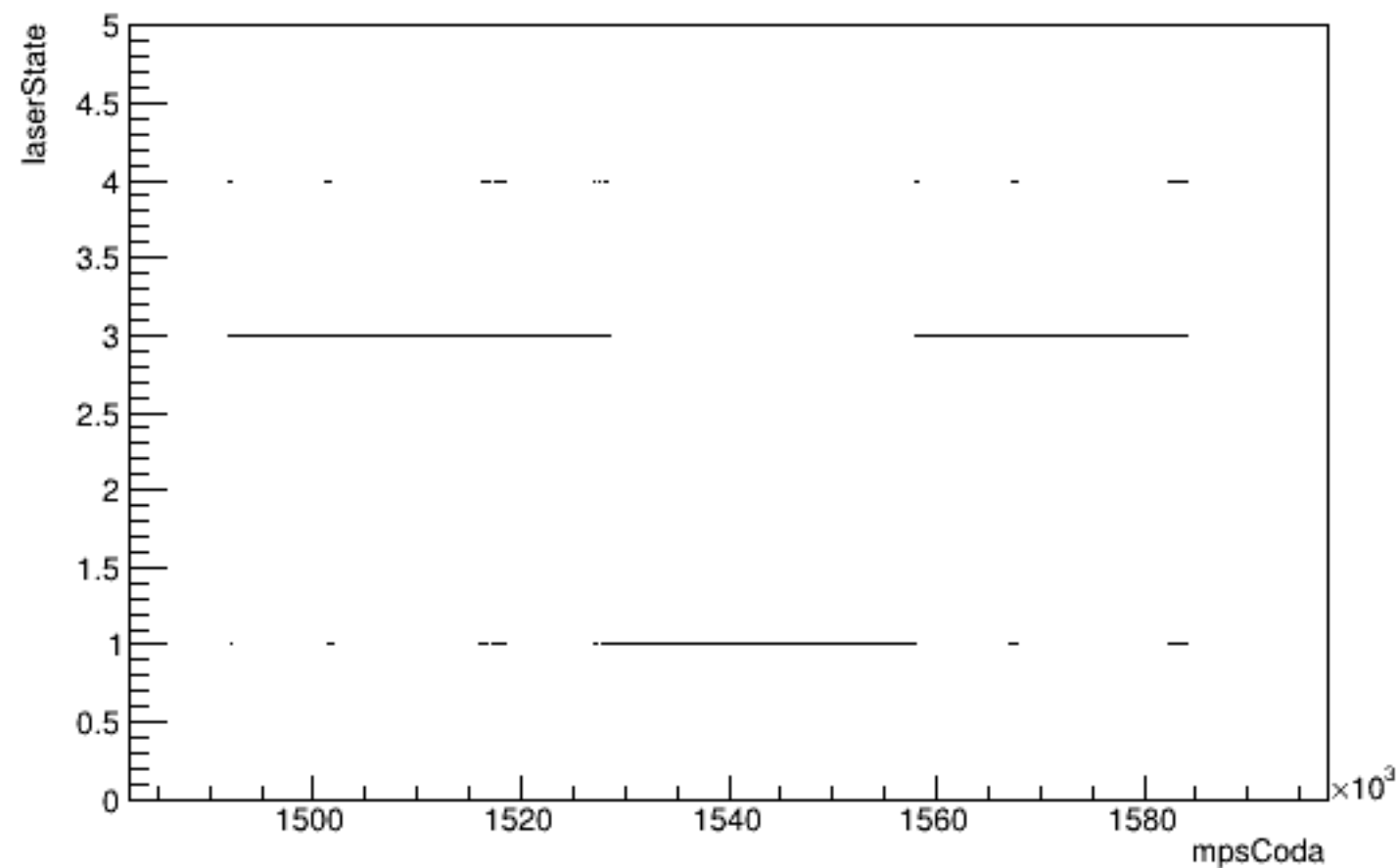
Run 4401 quartetwise, Asyms



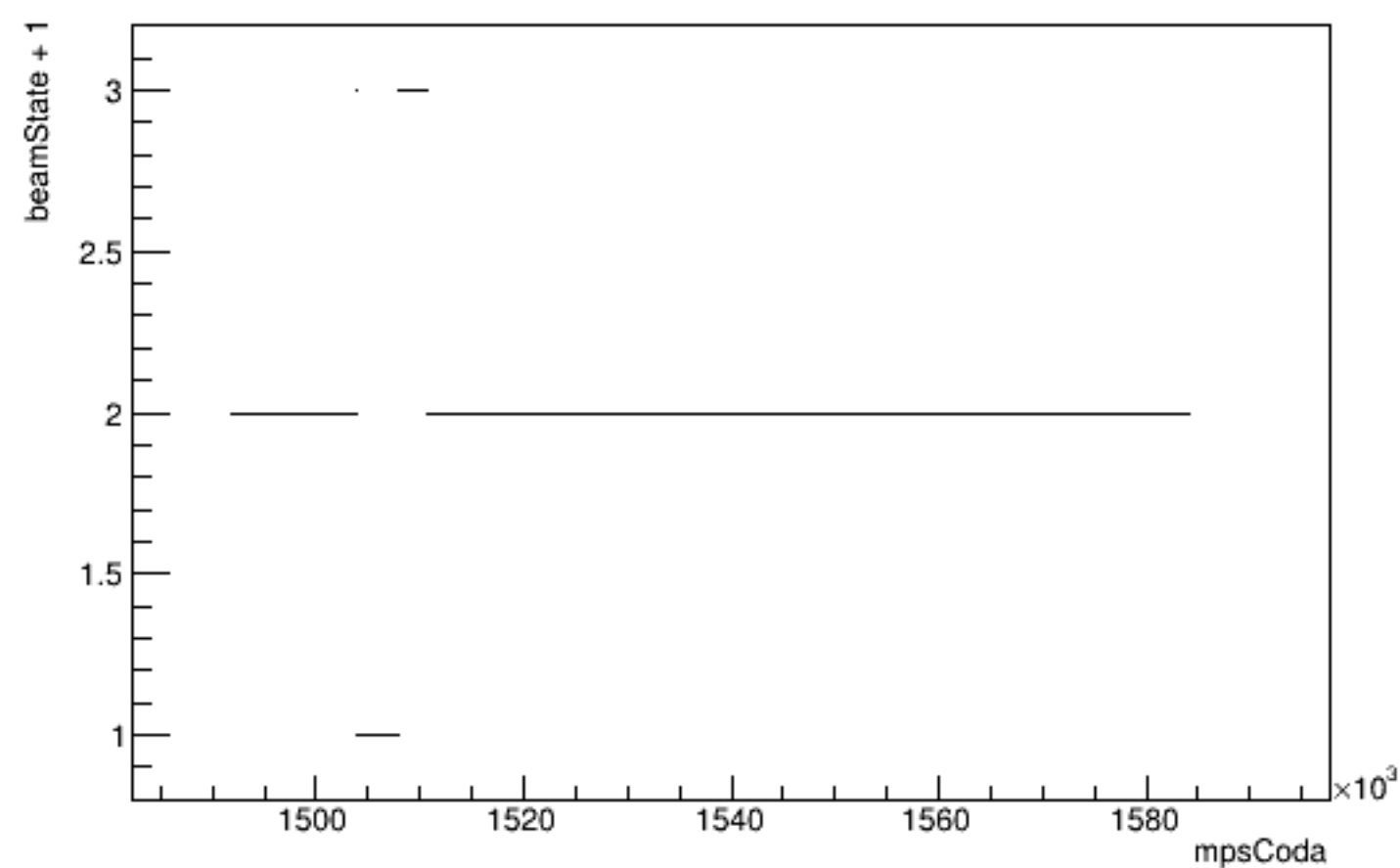
Acc0/NAcc0:mpsCoda (mpsCoda>=1491857 && mpsCoda<=1584256 && beamState==1)



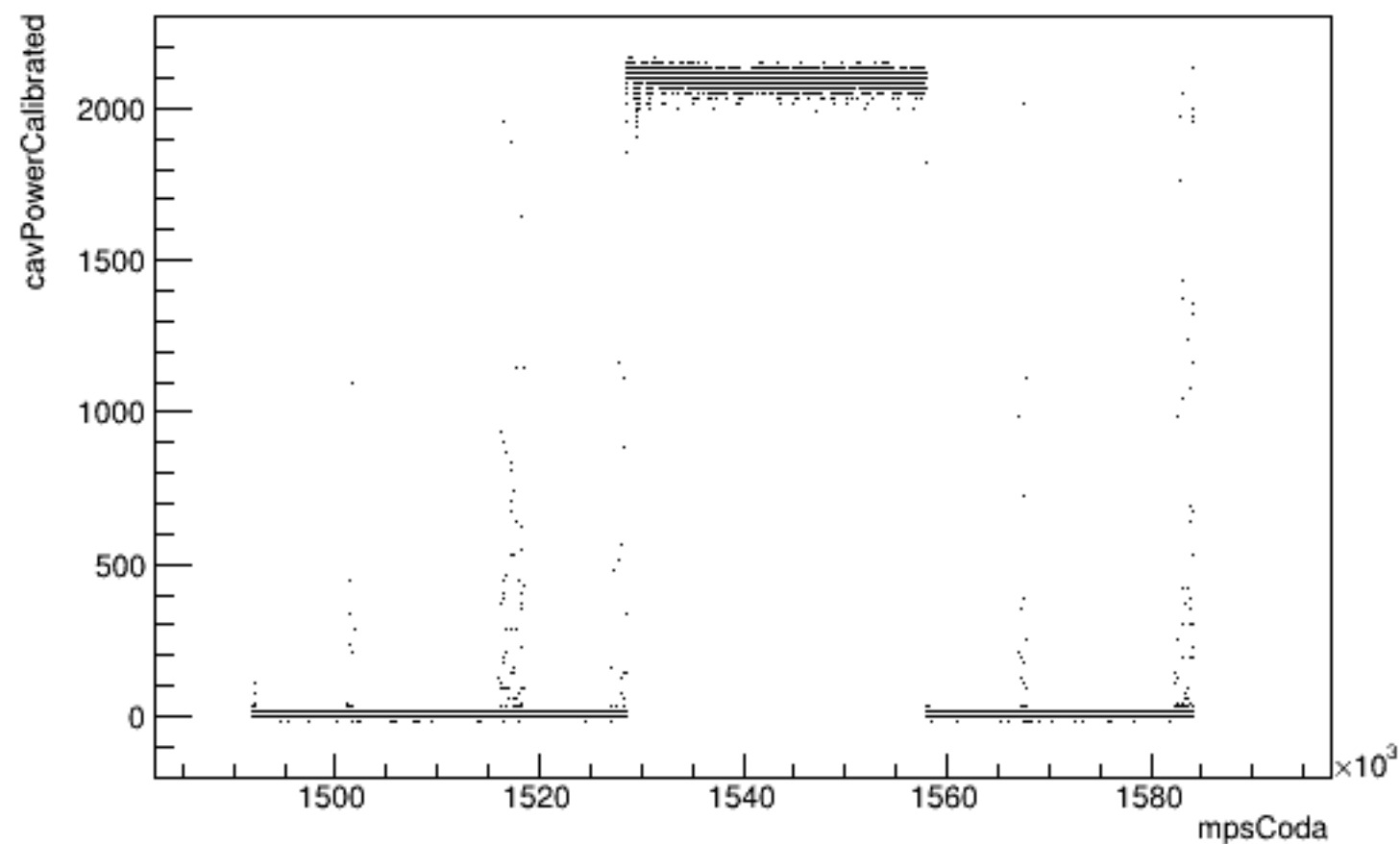
laserState:mpsCoda {mpsCoda&gt;=1491857 &amp;&amp; mpsCoda&lt;=1584256}



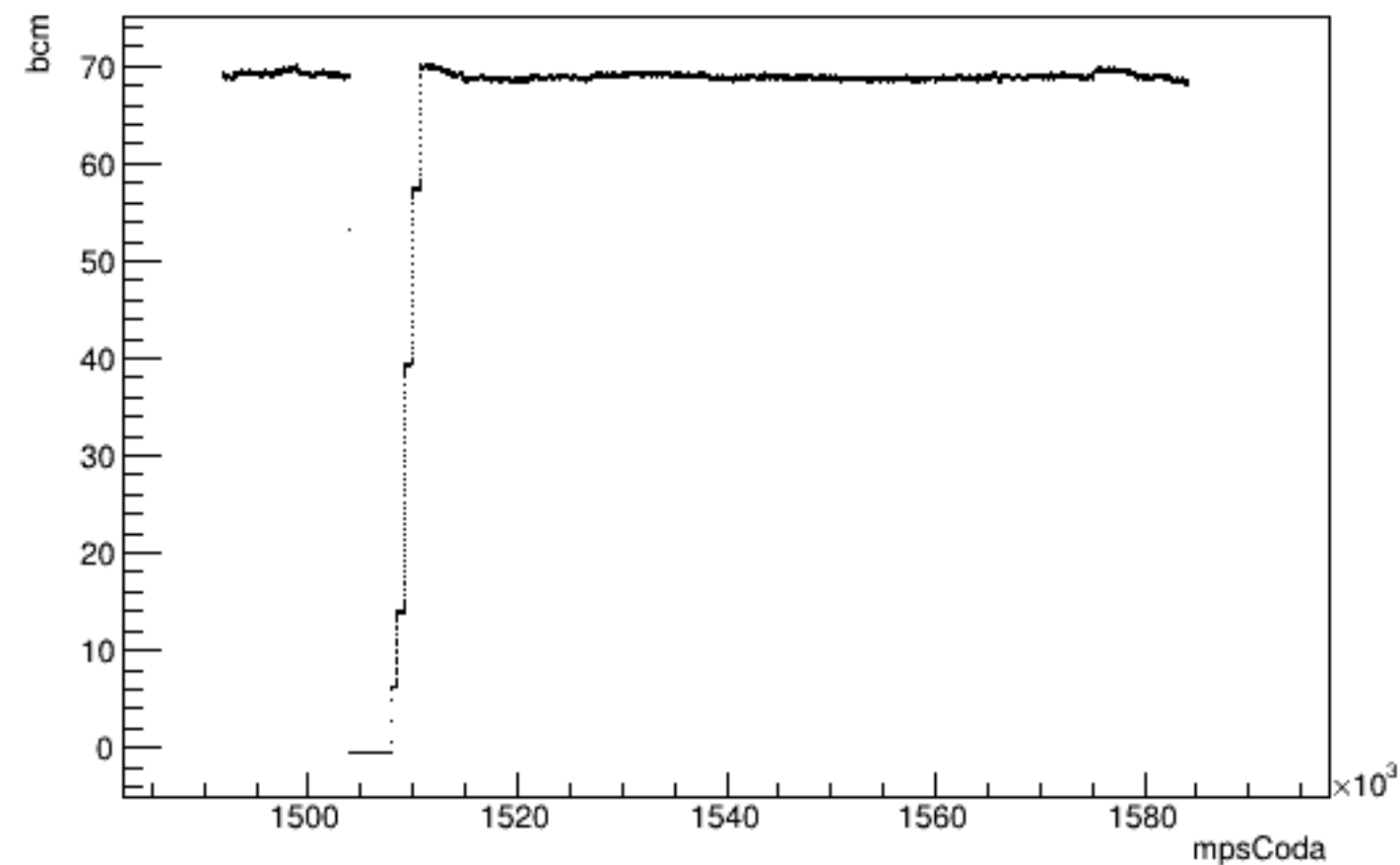
beamState + 1:mpsCoda {mpsCoda&gt;=1491857 &amp;&amp; mpsCoda&lt;=1584256}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1491857 &amp;&amp; mpsCoda&lt;=1584256}



bcm:mpsCoda {mpsCoda&gt;=1491857 &amp;&amp; mpsCoda&lt;=1584256}



## Cycle 17, Diffs

Entries: 3242

Mean: -0.0012 +/- 0.0050

Std Dev: 0.2826 +/- 0.0035

Entries: 3660

Mean: -0.0627 +/- 0.0052

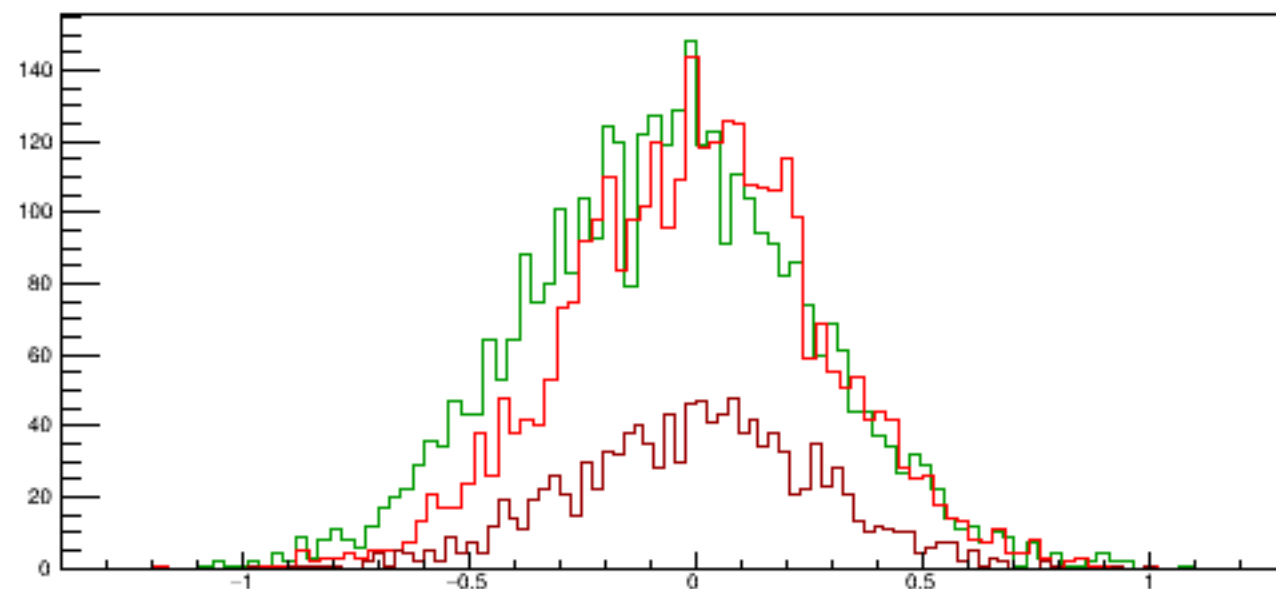
Std Dev: 0.3143 +/- 0.0037

Entries: 1213

Mean: -0.0034 +/- 0.0079

Std Dev: 0.2747 +/- 0.0056

Run 4401 quartetwise, Diffs



## Cycle 17, Sums

Entries: 3242

Mean: 15.9100 +/- 0.0061

Std Dev: 0.3495 +/- 0.0043

Entries: 3660

Mean: 20.4119 +/- 0.0072

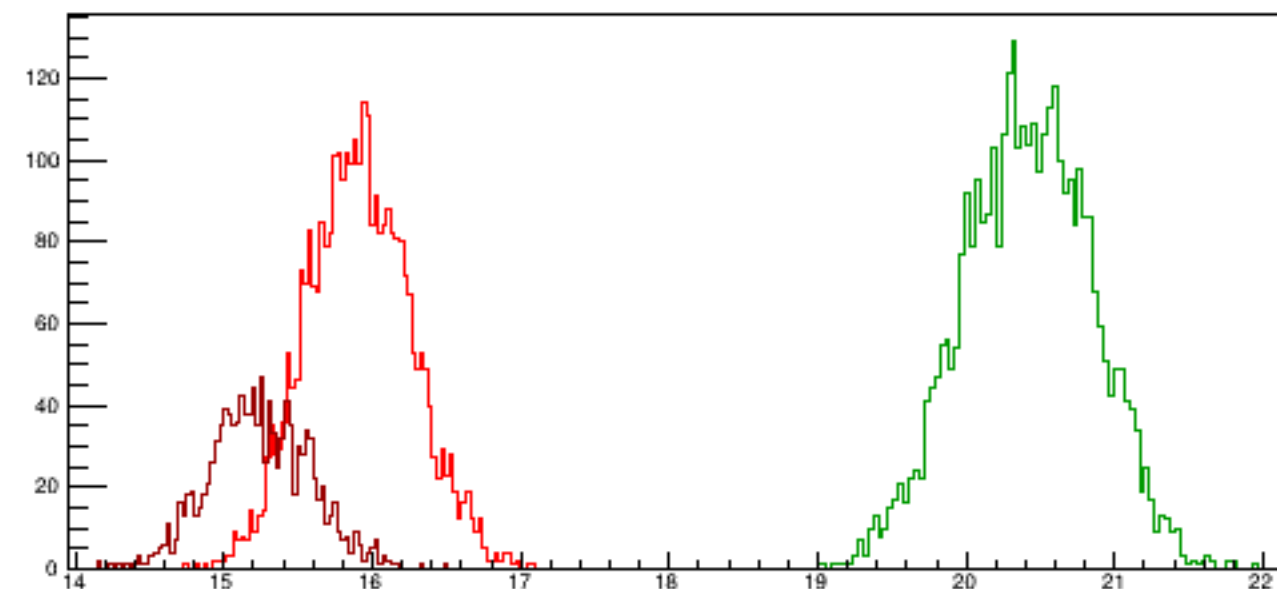
Std Dev: 0.4349 +/- 0.0051

Entries: 1213

Mean: 15.2436 +/- 0.0096

Std Dev: 0.3347 +/- 0.0068

Run 4401 quartetwise, Sums



## Cycle 17, Asyms

Entries: 3242

Mean: -0.0002 +/- 0.0010

Std Dev: 0.0585 +/- 0.0007

Entries: 3660

Mean: -0.0129 +/- 0.0011

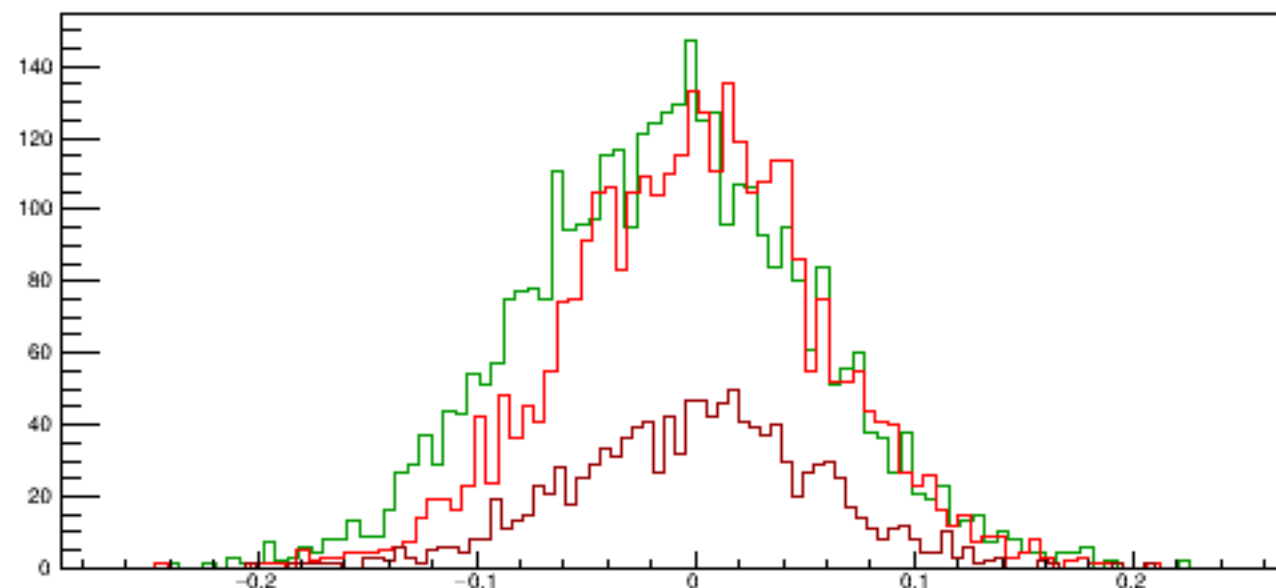
Std Dev: 0.0654 +/- 0.0008

Entries: 1213

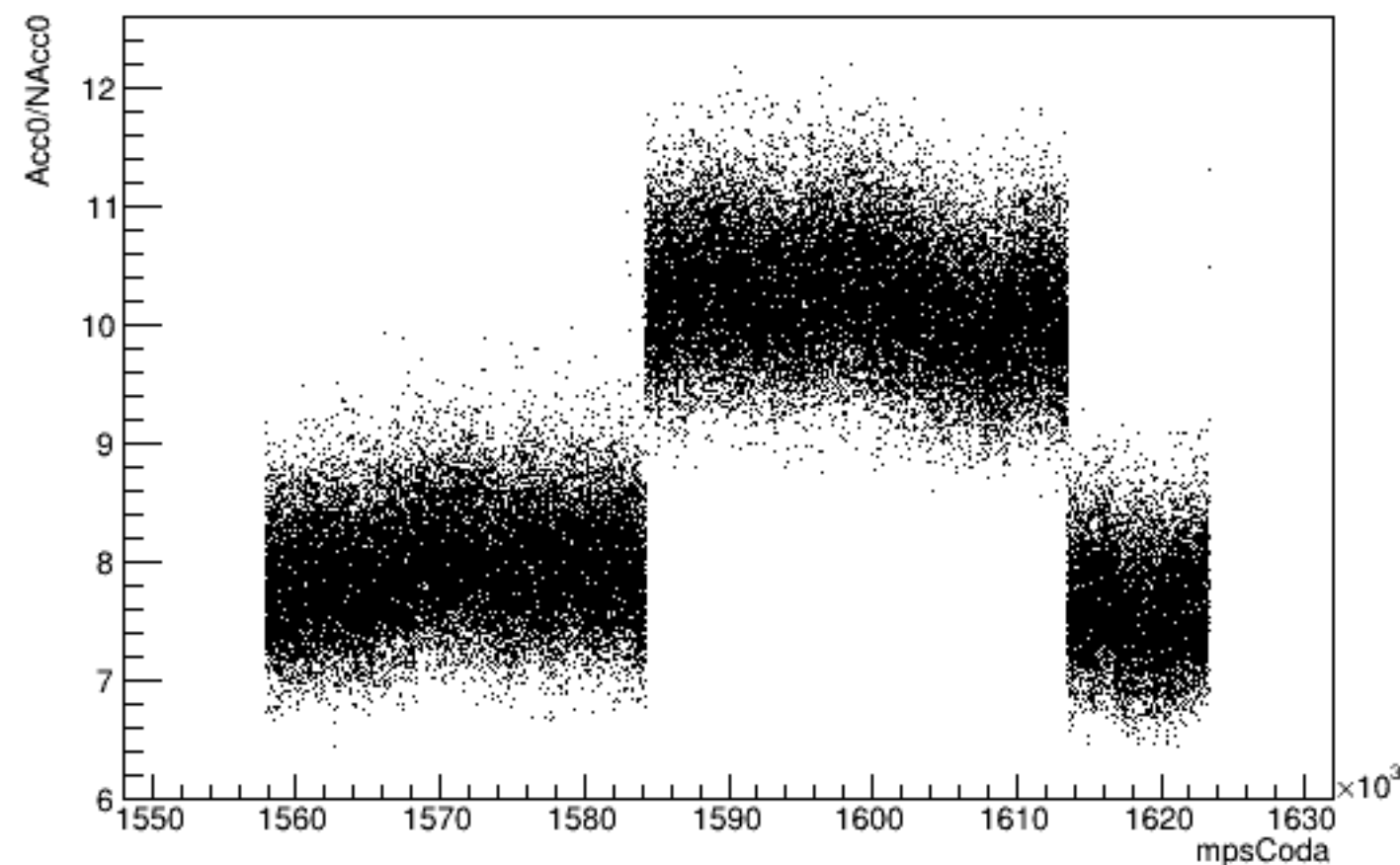
Mean: -0.0007 +/- 0.0016

Std Dev: 0.0568 +/- 0.0012

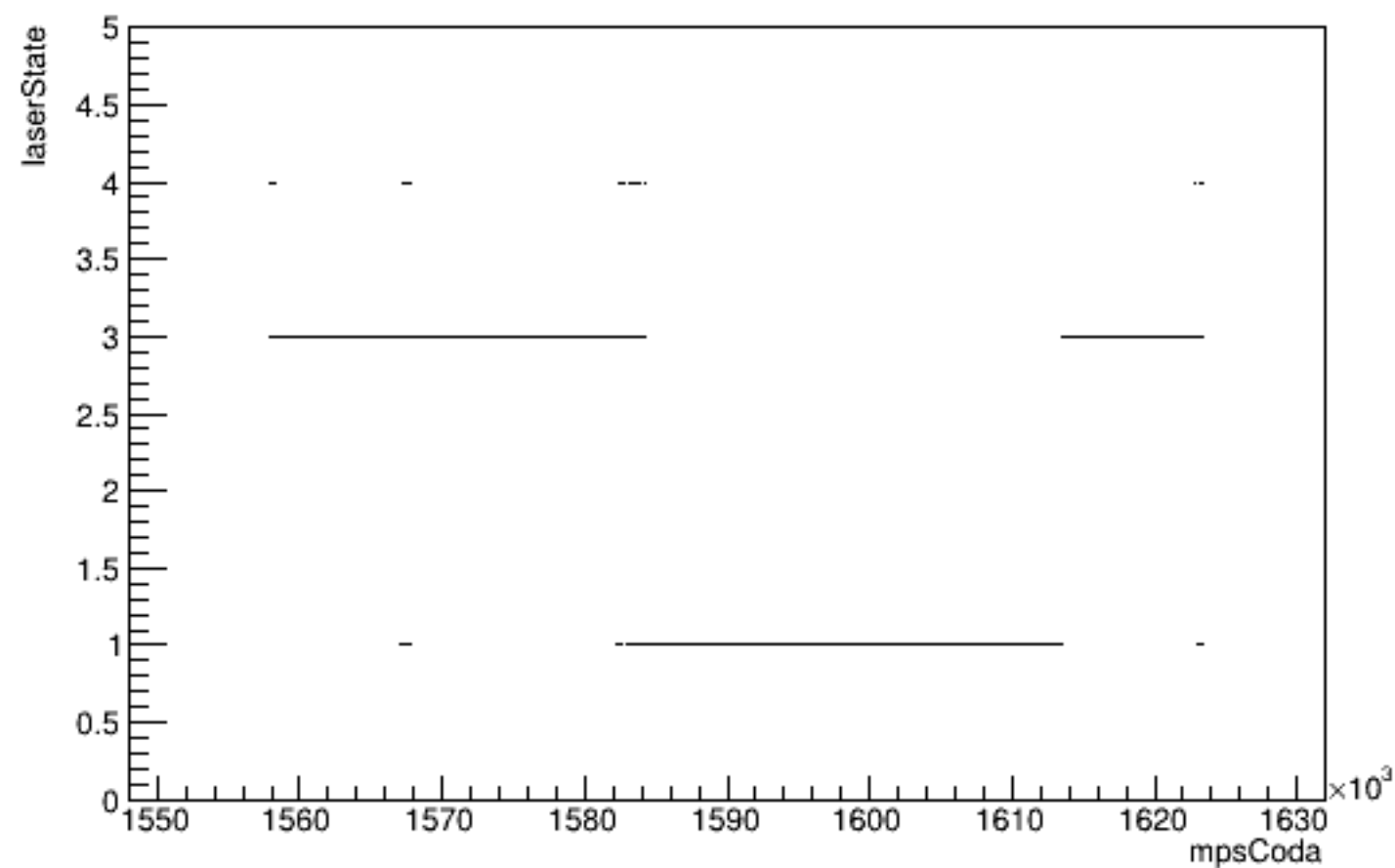
Run 4401 quartetwise, Asyms



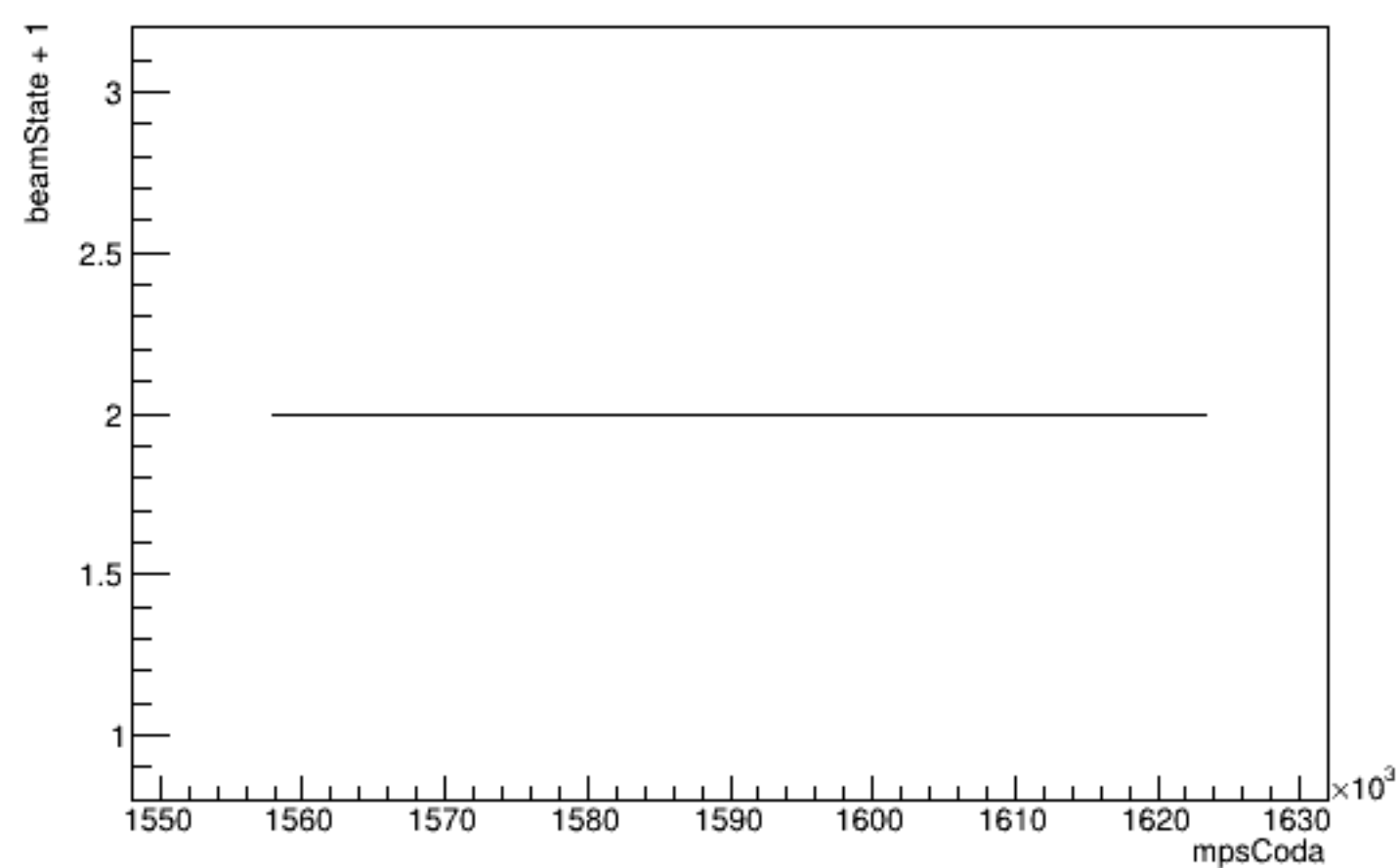
Acc0/NAcc0:mpsCoda (mpsCoda>=1557873 && mpsCoda<=1623312 && beamState==1)



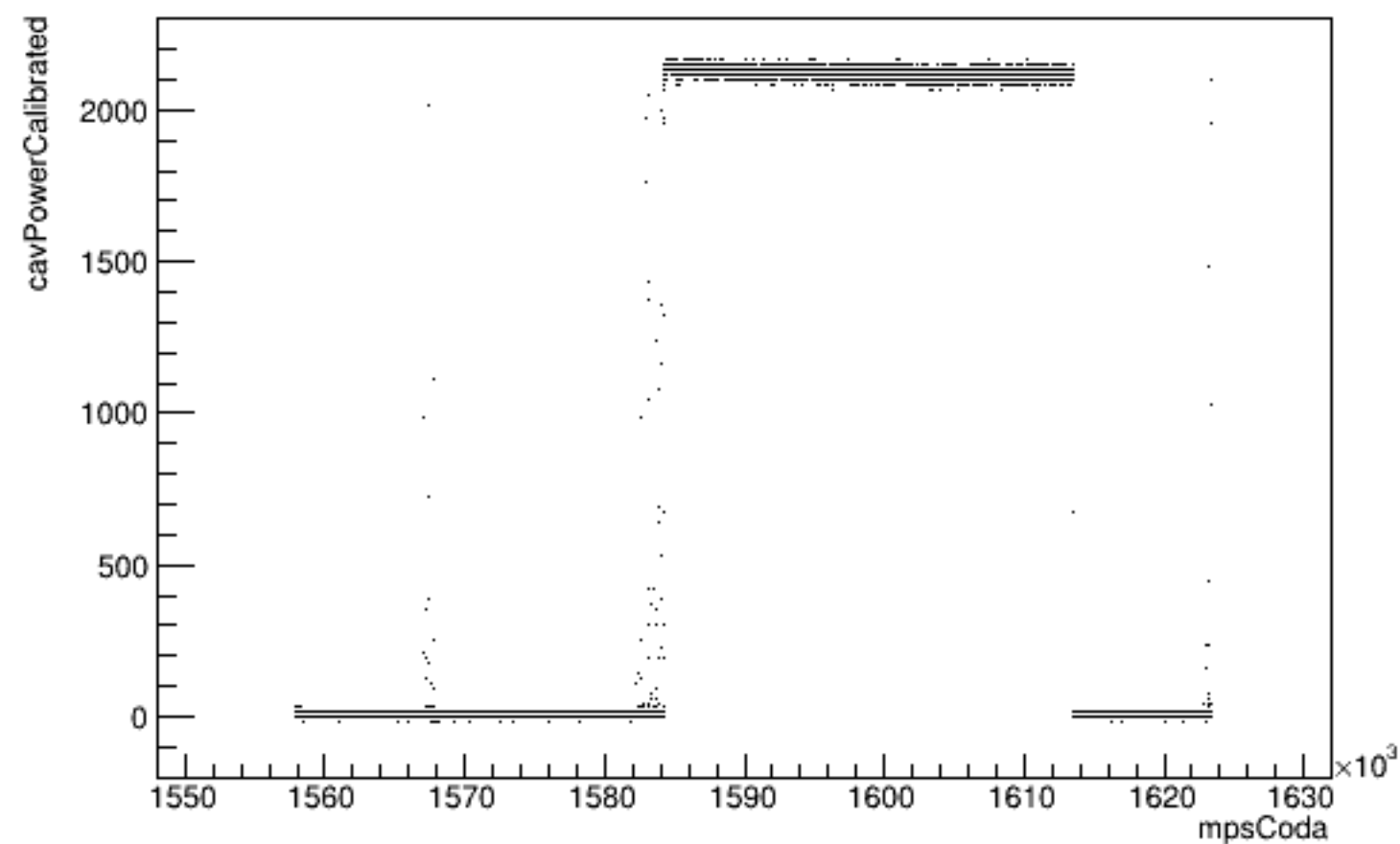
laserState:mpsCoda {mpsCoda&gt;=1557873 &amp;&amp; mpsCoda&lt;=1623312}



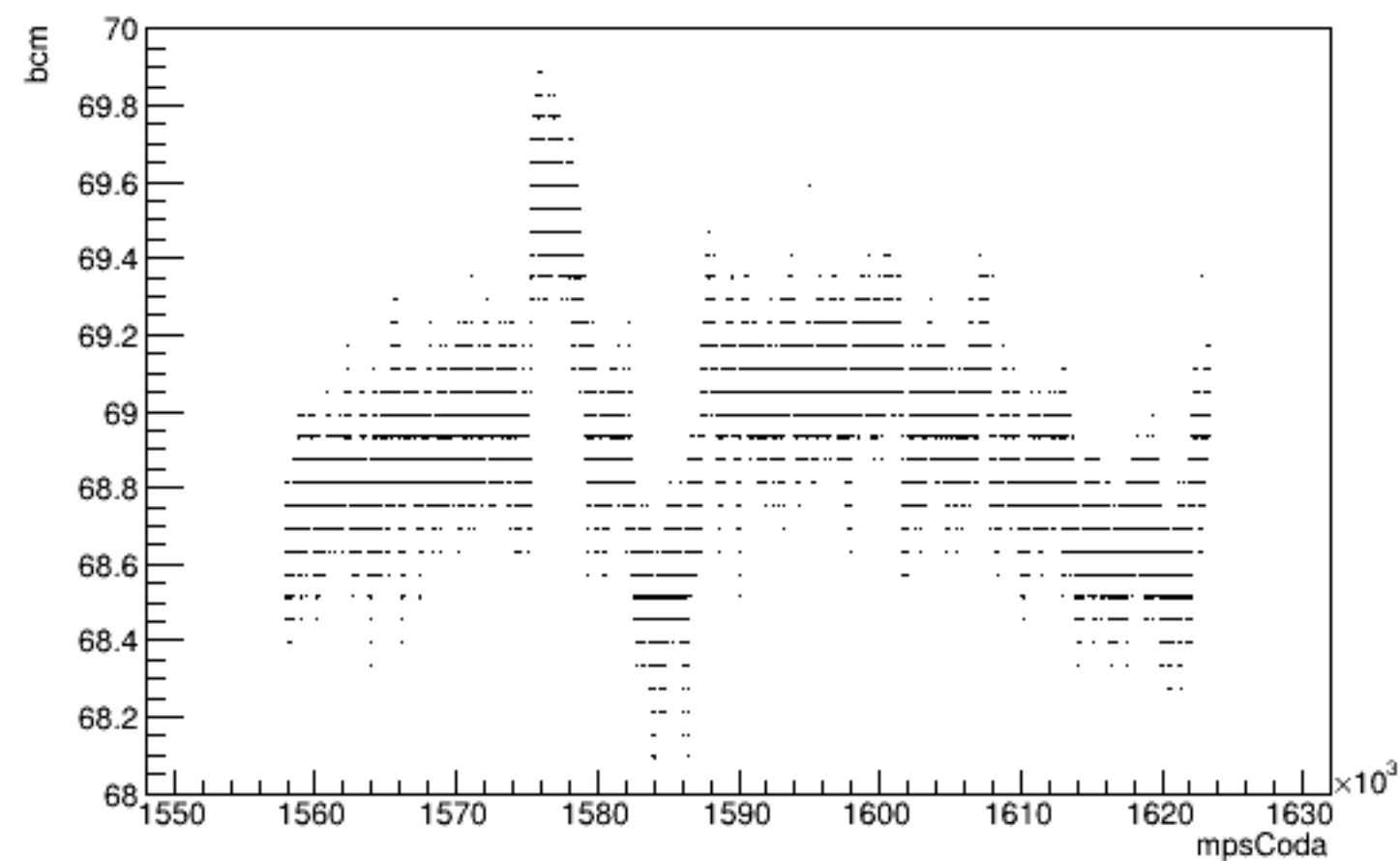
beamState + 1:mpsCoda {mpsCoda&gt;=1557873 &amp;&amp; mpsCoda&lt;=1623312}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1557873 &amp;&amp; mpsCoda&lt;=1623312}



bcm:mpsCoda {mpsCoda&gt;=1557873 &amp;&amp; mpsCoda&lt;=1623312}



## Cycle 18, Diffs

Entries: 1213

Mean: -0.0034 +/- 0.0079

Std Dev: 0.2747 +/- 0.0056

Entries: 3708

Mean: -0.0624 +/- 0.0052

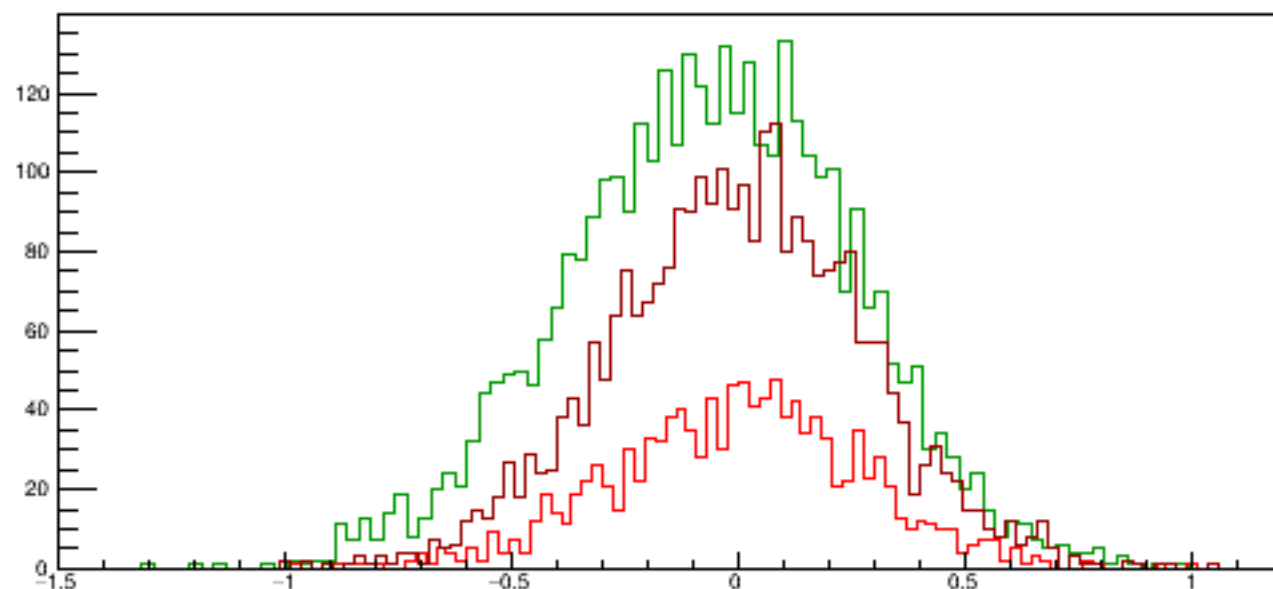
Std Dev: 0.3137 +/- 0.0036

Entries: 2862

Mean: -0.0018 +/- 0.0052

Std Dev: 0.2785 +/- 0.0037

Run 4401 quartetwise, Diffs



## Cycle 18, Sums

Entries: 1213

Mean: 15.2436 +/- 0.0096

Std Dev: 0.3347 +/- 0.0068

Entries: 3708

Mean: 19.7530 +/- 0.0085

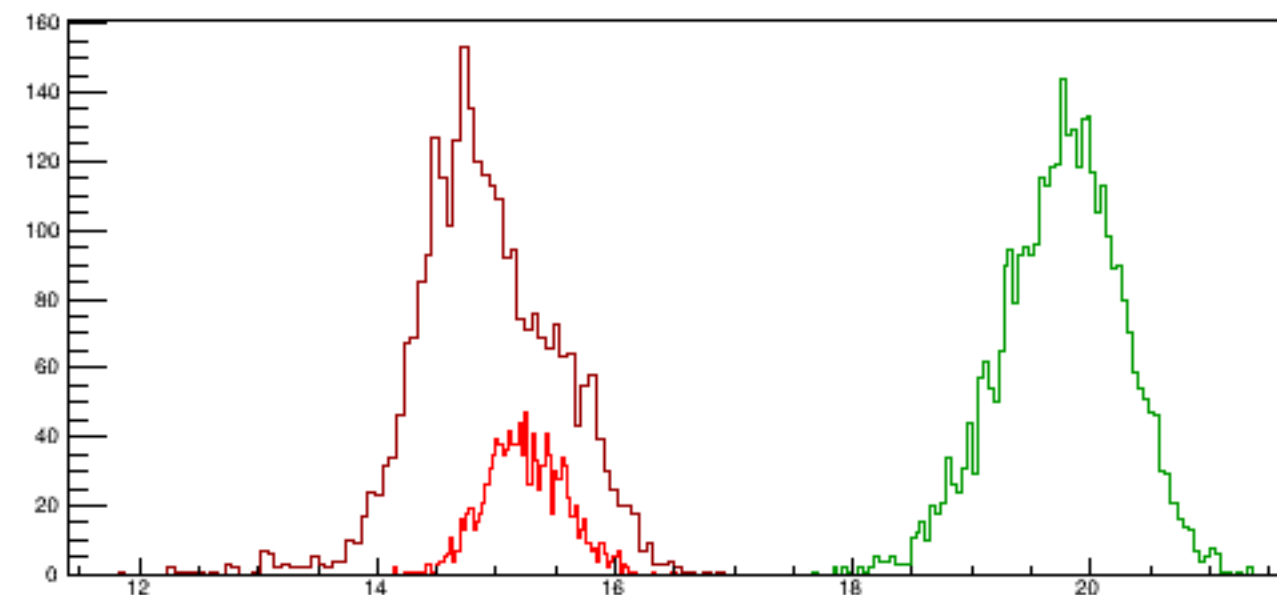
Std Dev: 0.5196 +/- 0.0060

Entries: 2862

Mean: 14.9213 +/- 0.0111

Std Dev: 0.5965 +/- 0.0079

Run 4401 quartetwise, Sums



## Cycle 18, Asyms

Entries: 1213

Mean: -0.0007 +/- 0.0017

Std Dev: 0.0588 +/- 0.0012

Entries: 3708

Mean: -0.0135 +/- 0.0011

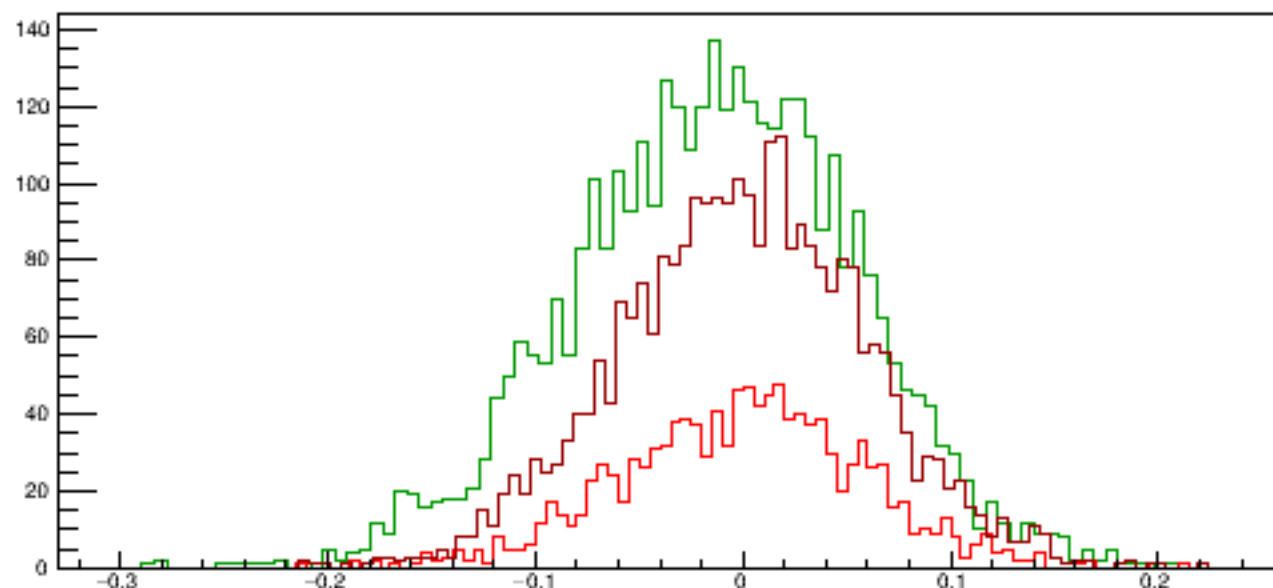
Std Dev: 0.0679 +/- 0.0008

Entries: 2862

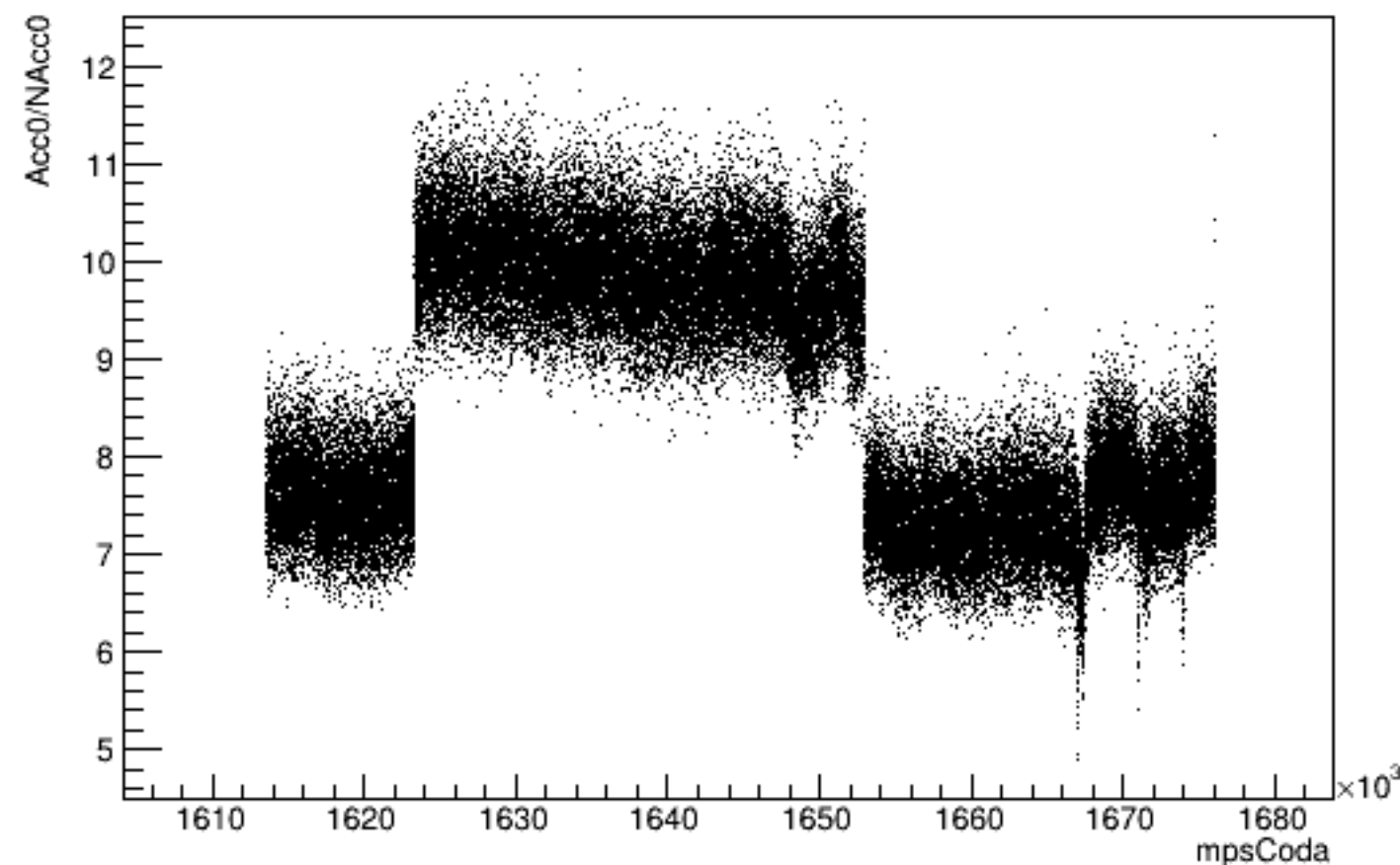
Mean: -0.0004 +/- 0.0011

Std Dev: 0.0596 +/- 0.0008

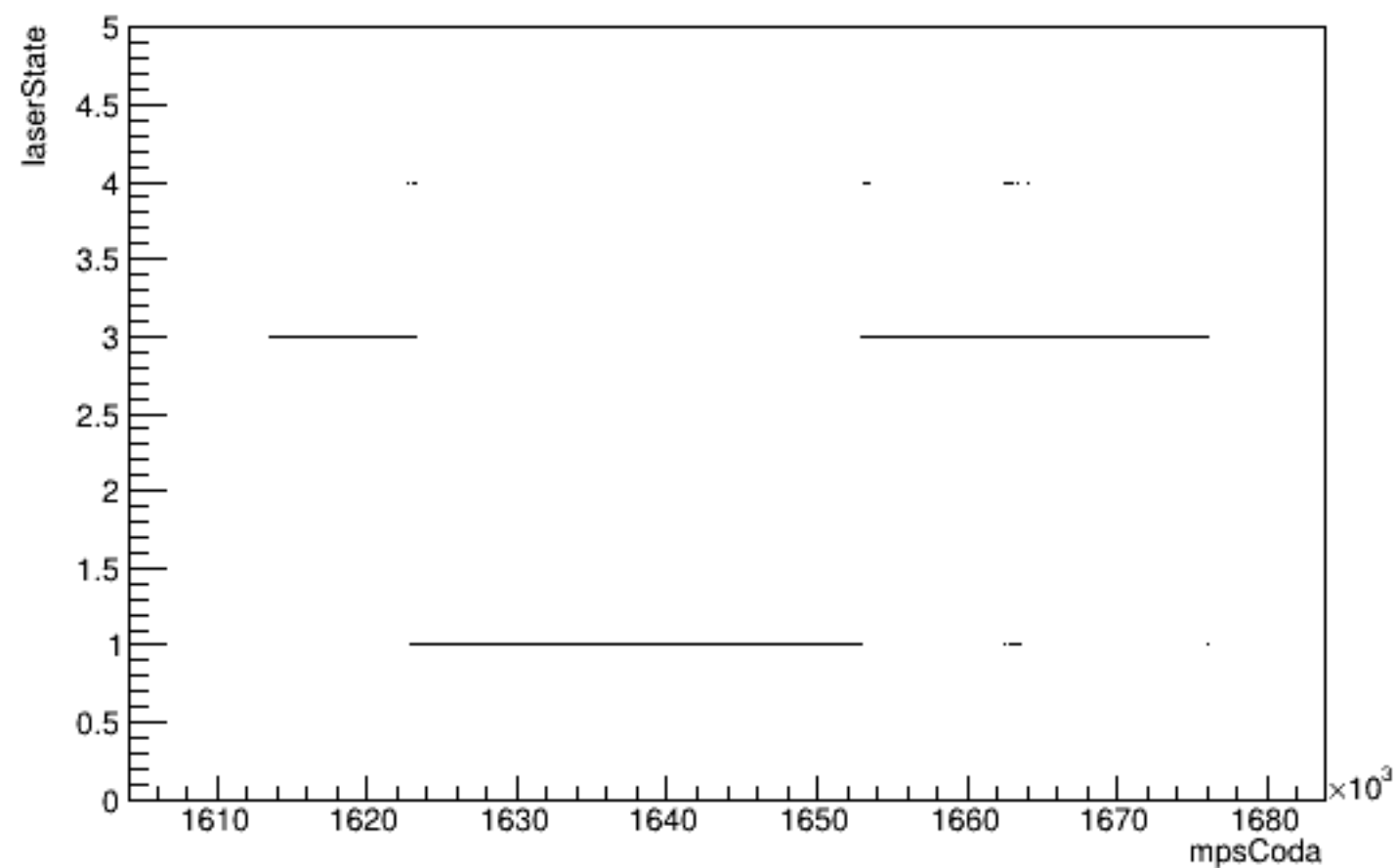
Run 4401 quartetwise, Asyms



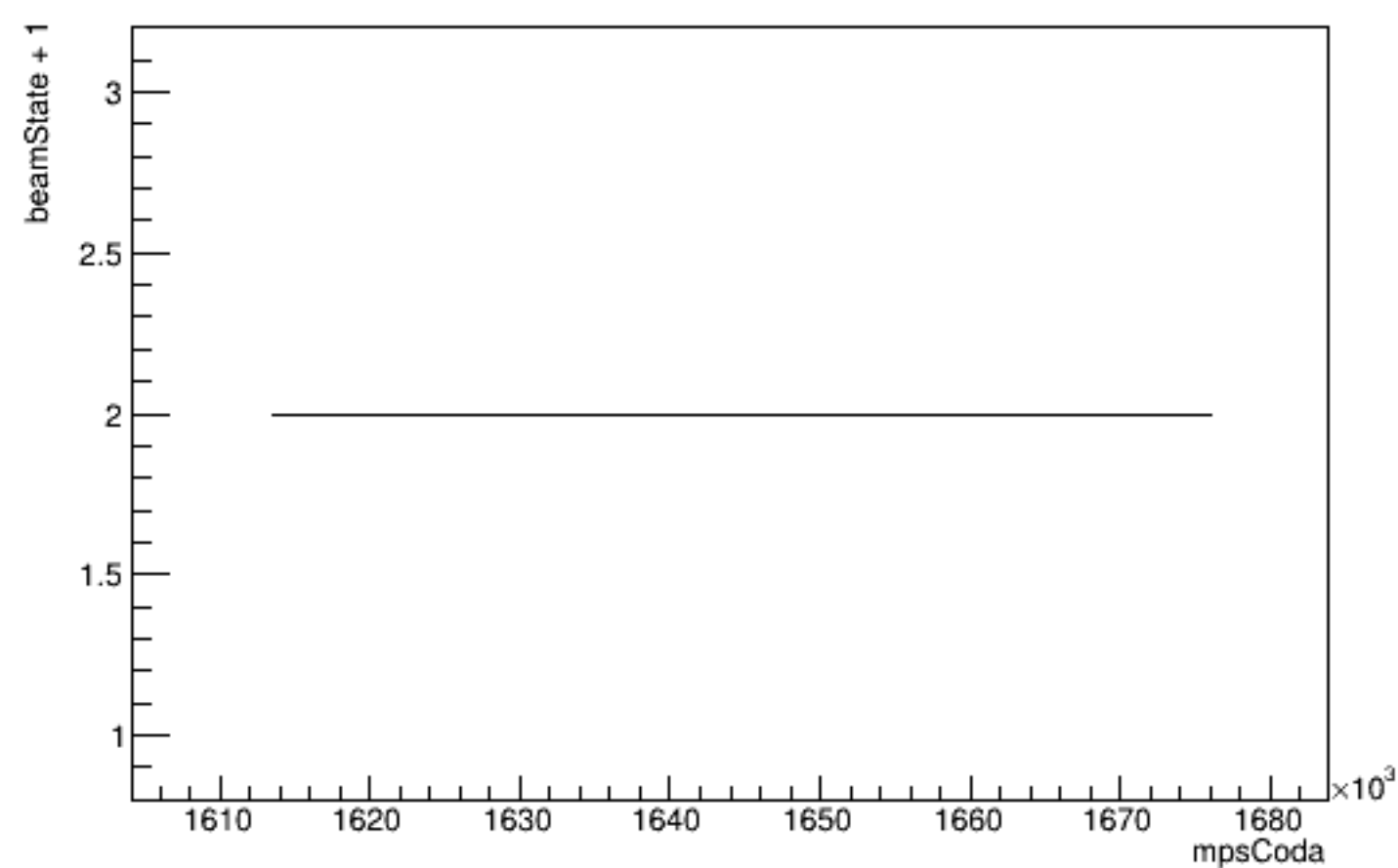
Acc0/NAcc0:mpsCoda (mpsCoda>=1613545 && mpsCoda<=1676104 && beamState==1)



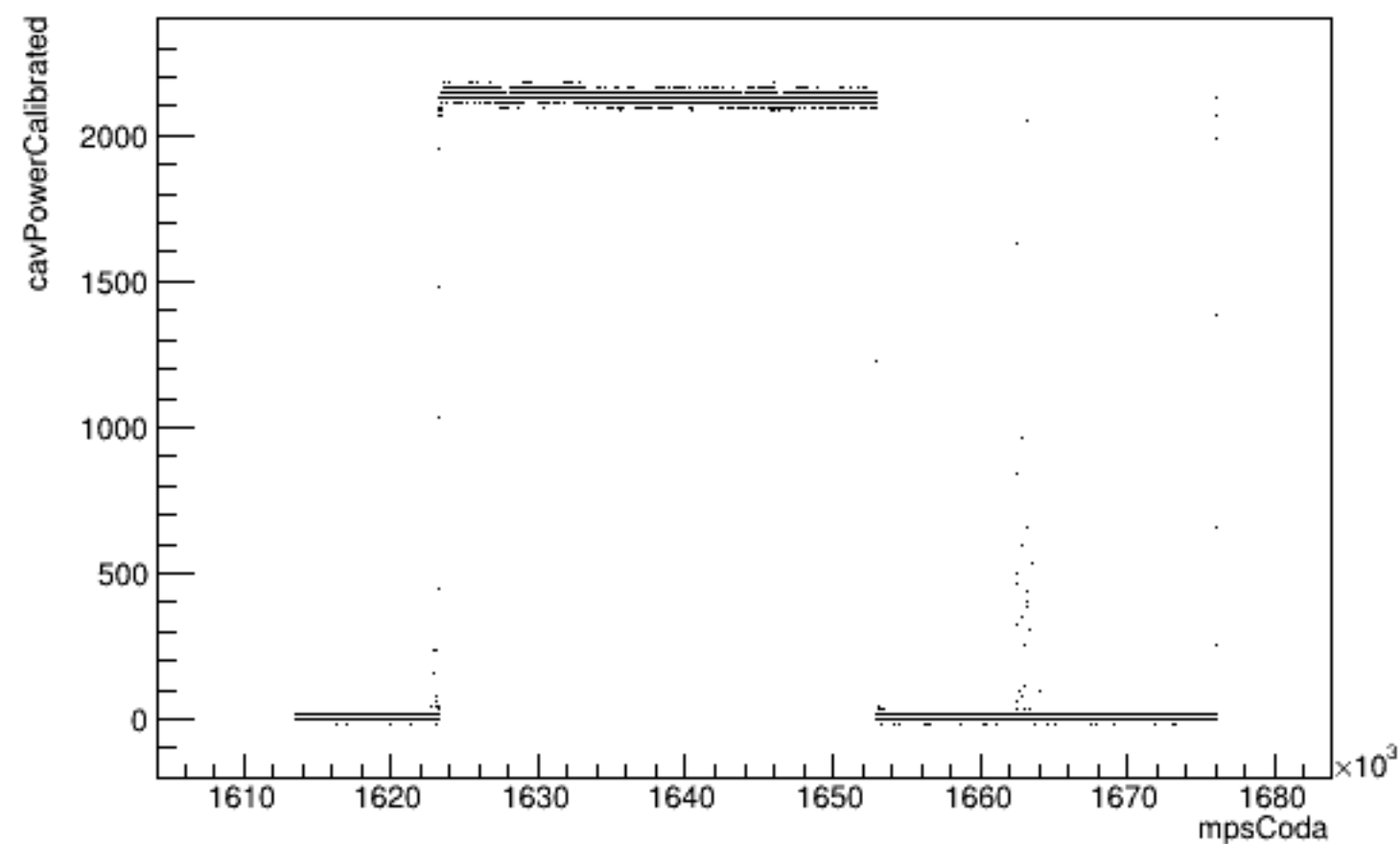
laserState:mpsCoda {mpsCoda&gt;=1613545 &amp;&amp; mpsCoda&lt;=1676104}



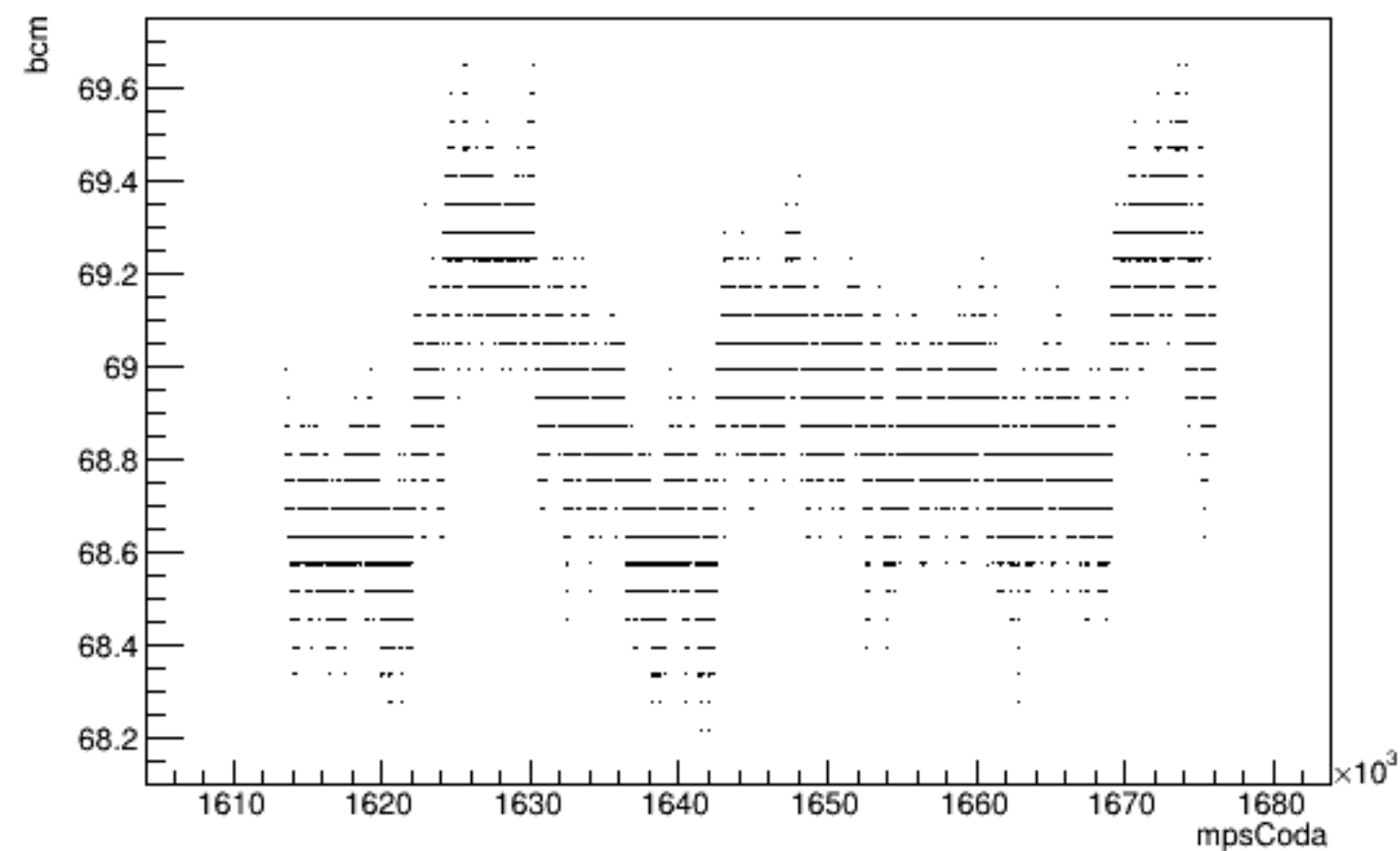
beamState + 1:mpsCoda {mpsCoda&gt;=1613545 &amp;&amp; mpsCoda&lt;=1676104}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1613545 &amp;&amp; mpsCoda&lt;=1676104}



bcm:mpsCoda {mpsCoda&gt;=1613545 &amp;&amp; mpsCoda&lt;=1676104}



## Cycle 19, Diffs

Entries: 2862

Mean: -0.0018 +/- 0.0052

Std Dev: 0.2785 +/- 0.0037

Entries: 3113

Mean: -0.0760 +/- 0.0057

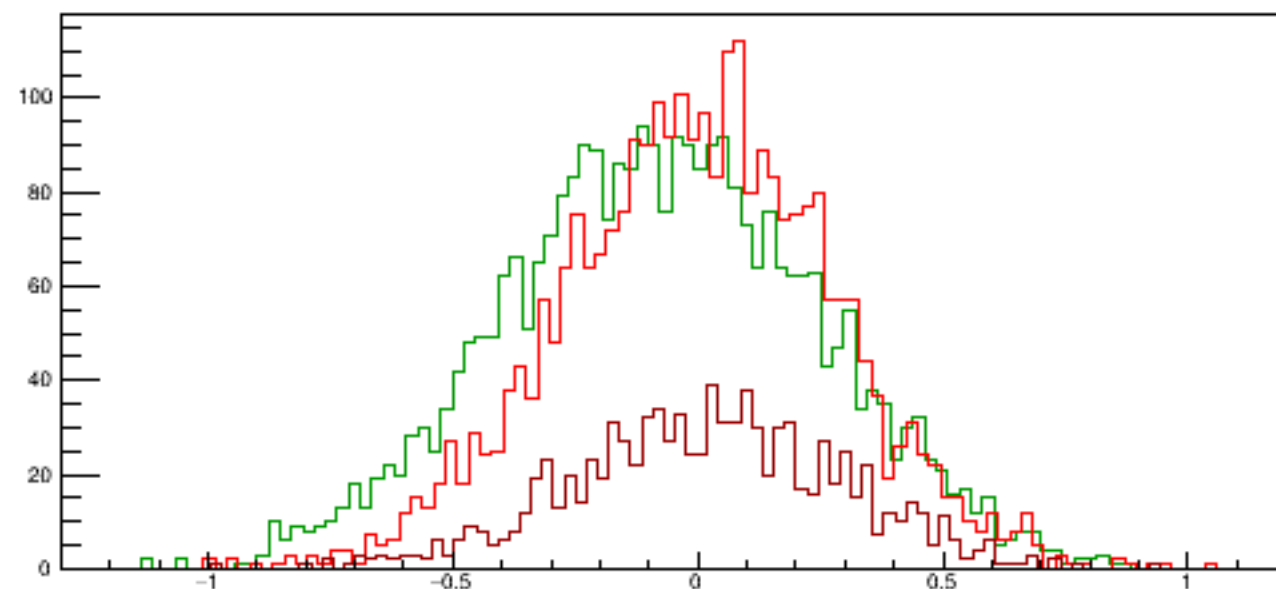
Std Dev: 0.3202 +/- 0.0041

Entries: 960

Mean: 0.0169 +/- 0.0089

Std Dev: 0.2756 +/- 0.0063

Run 4401 quartetwise, Diffs



## Cycle 19, Sums

Entries: 2862

Mean: 14.9213 +/- 0.0111

Std Dev: 0.5965 +/- 0.0079

Entries: 3113

Mean: 19.9490 +/- 0.0093

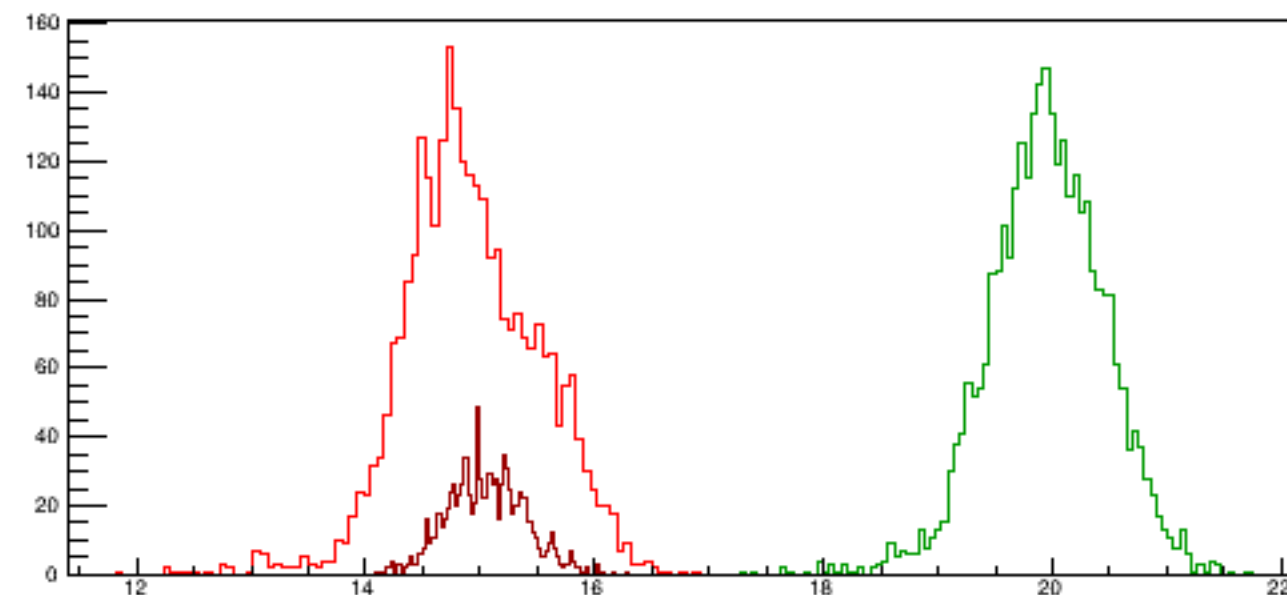
Std Dev: 0.5172 +/- 0.0066

Entries: 960

Mean: 15.0577 +/- 0.0111

Std Dev: 0.3432 +/- 0.0078

Run 4401 quartetwise, Sums



## Cycle 19, Asyms

Entries: 2862

Mean: -0.0004 +/- 0.0010

Std Dev: 0.0561 +/- 0.0007

Entries: 3113

Mean: -0.0156 +/- 0.0012

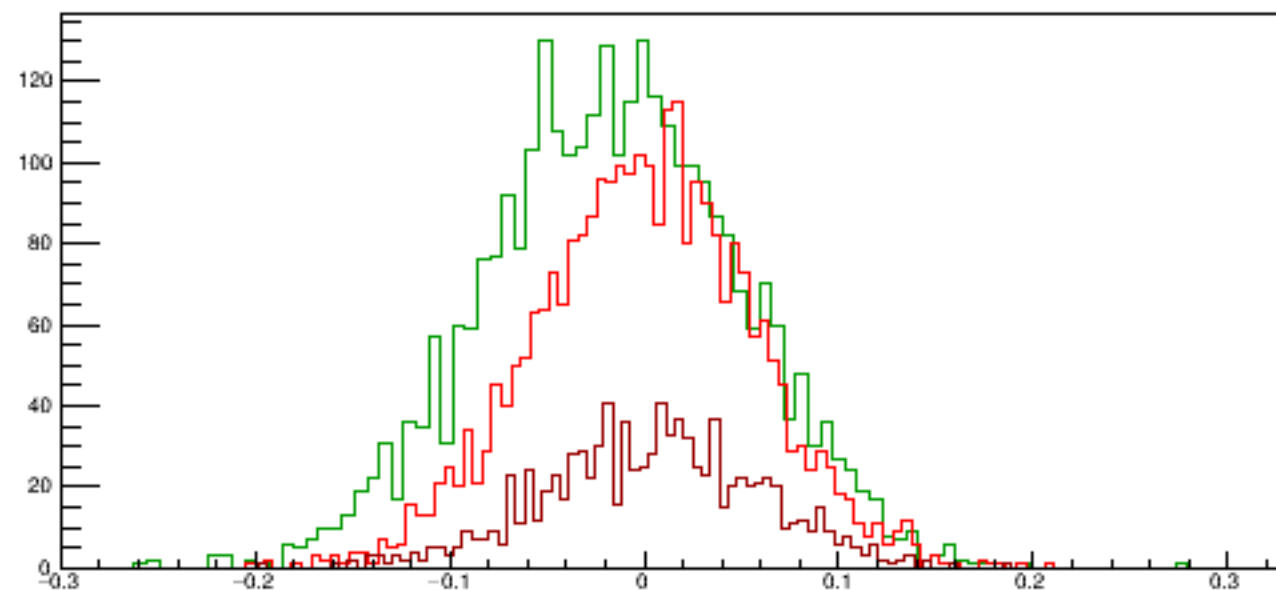
Std Dev: 0.0653 +/- 0.0008

Entries: 960

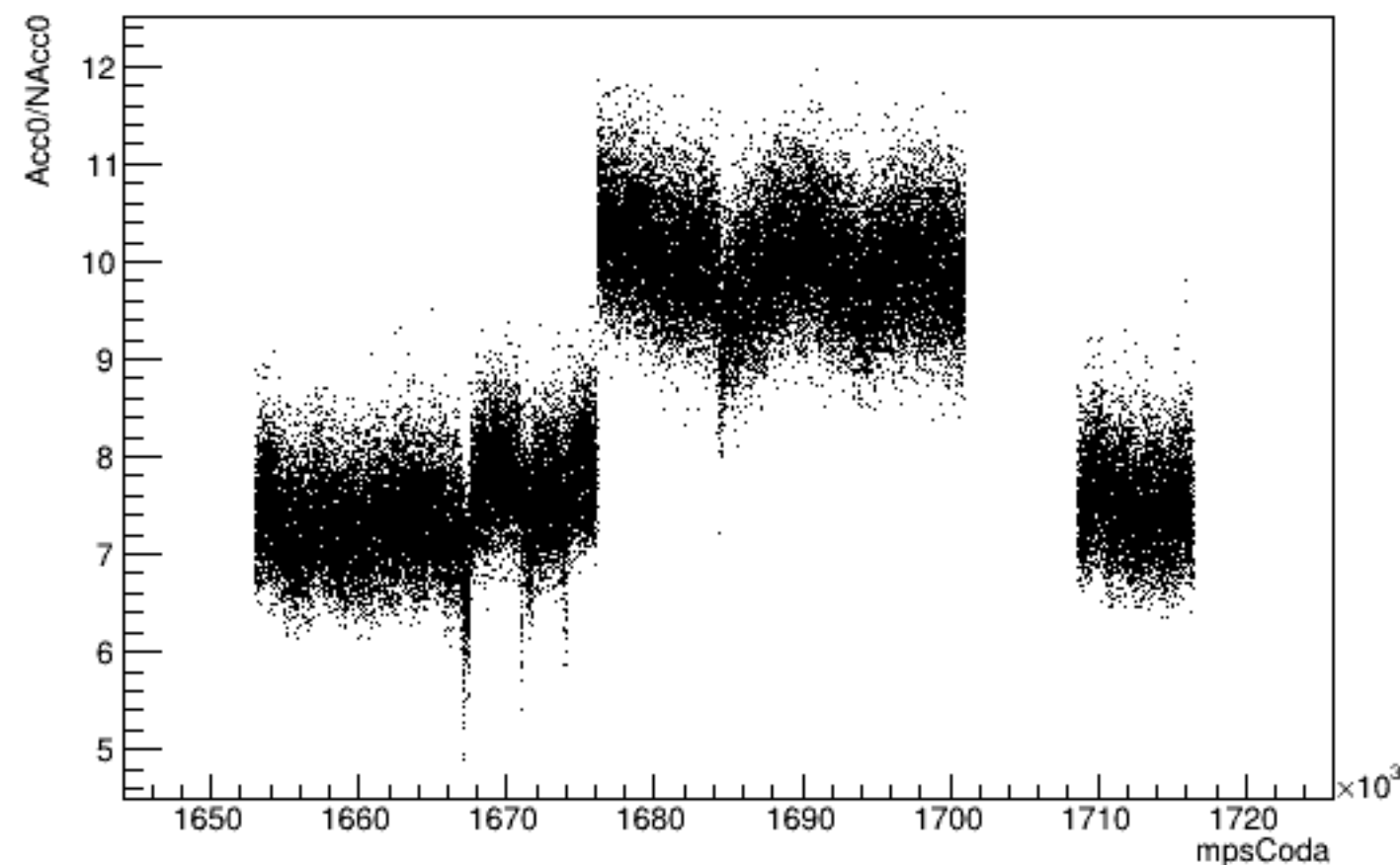
Mean: 0.0034 +/- 0.0018

Std Dev: 0.0556 +/- 0.0013

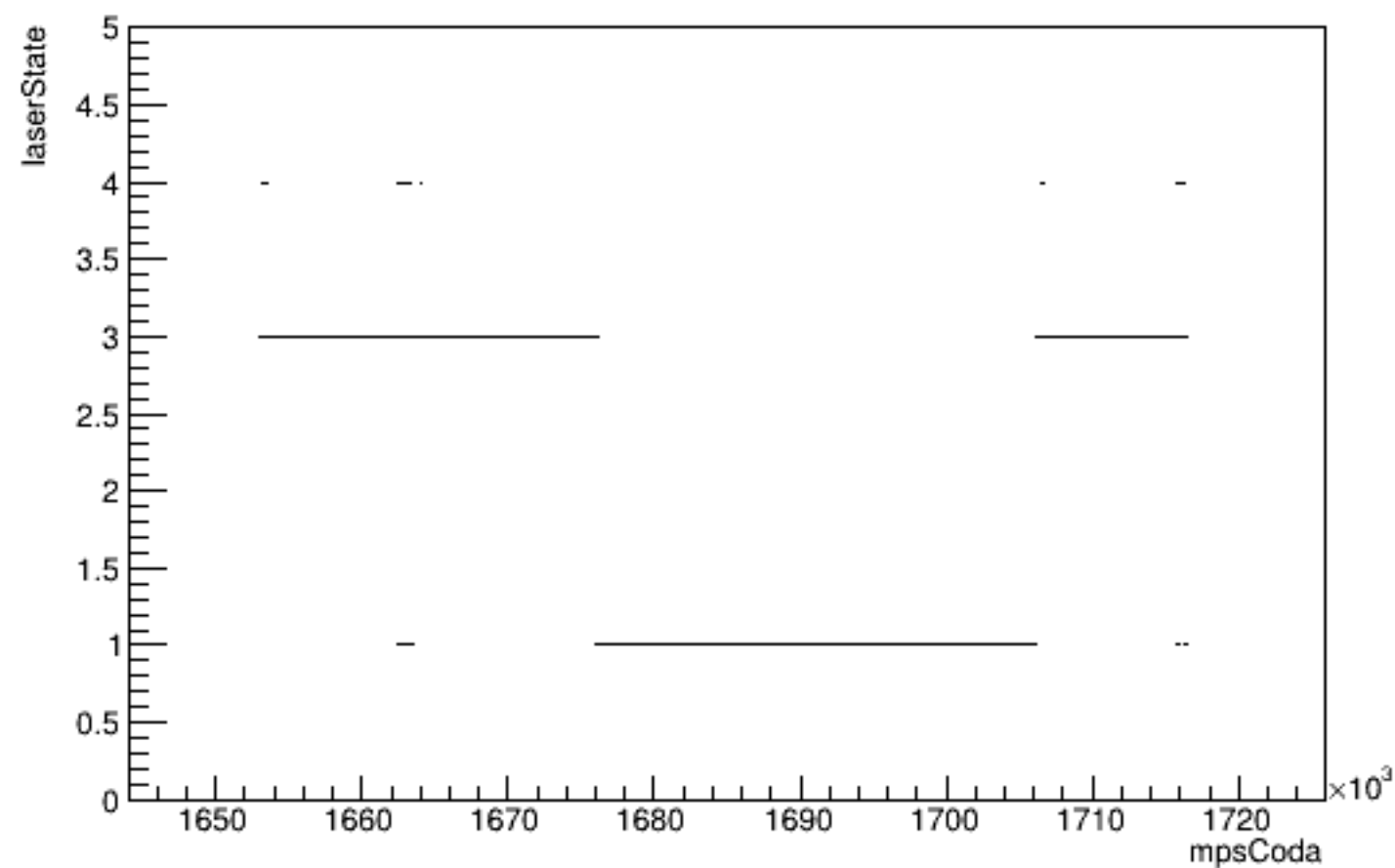
Run 4401 quartetwise, Asyms



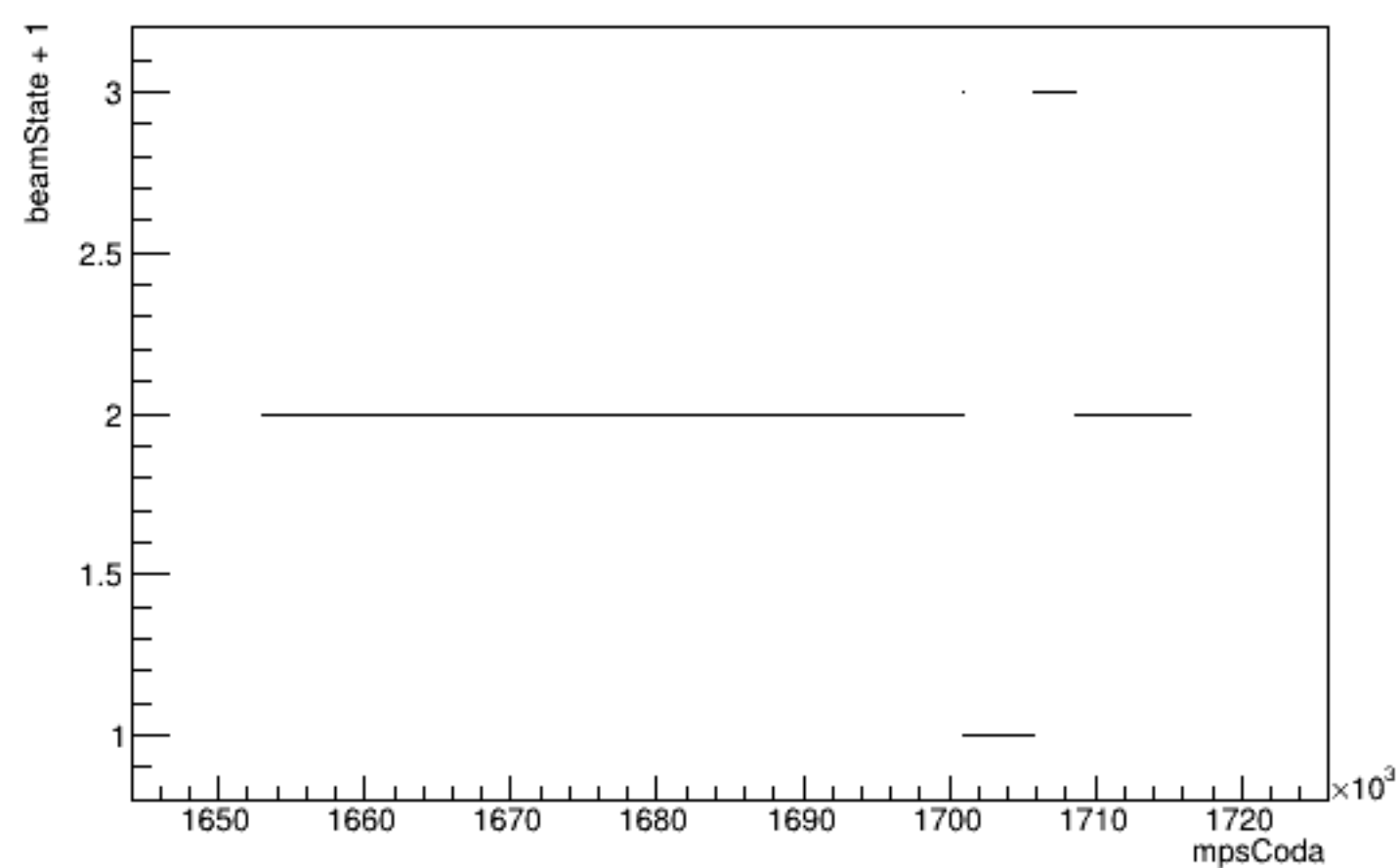
Acc0/NAcc0:mpsCoda (mpsCoda>=1652985 && mpsCoda<=1716424 && beamState==1)



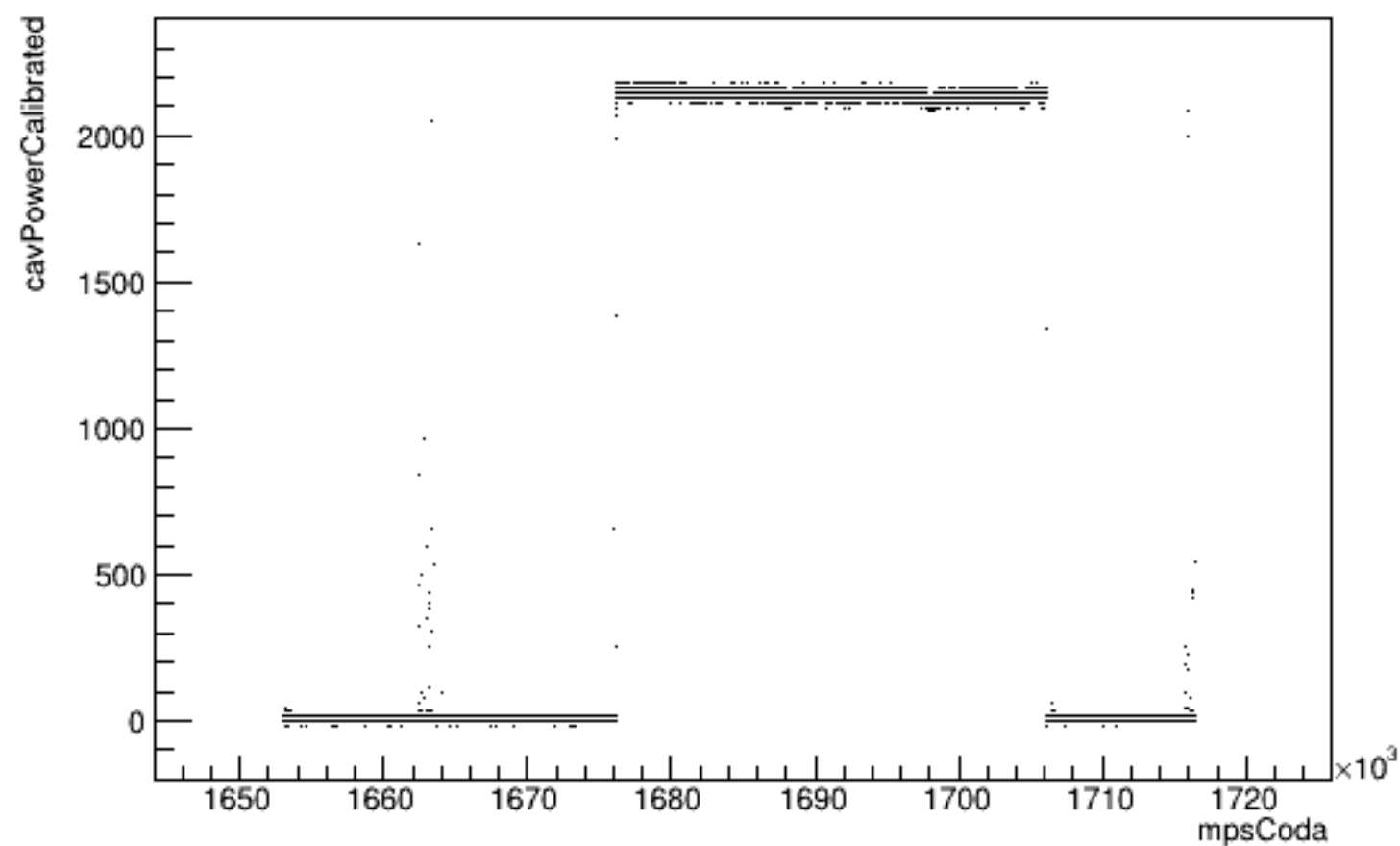
laserState:mpsCoda {mpsCoda&gt;=1652985 &amp;&amp; mpsCoda&lt;=1716424}



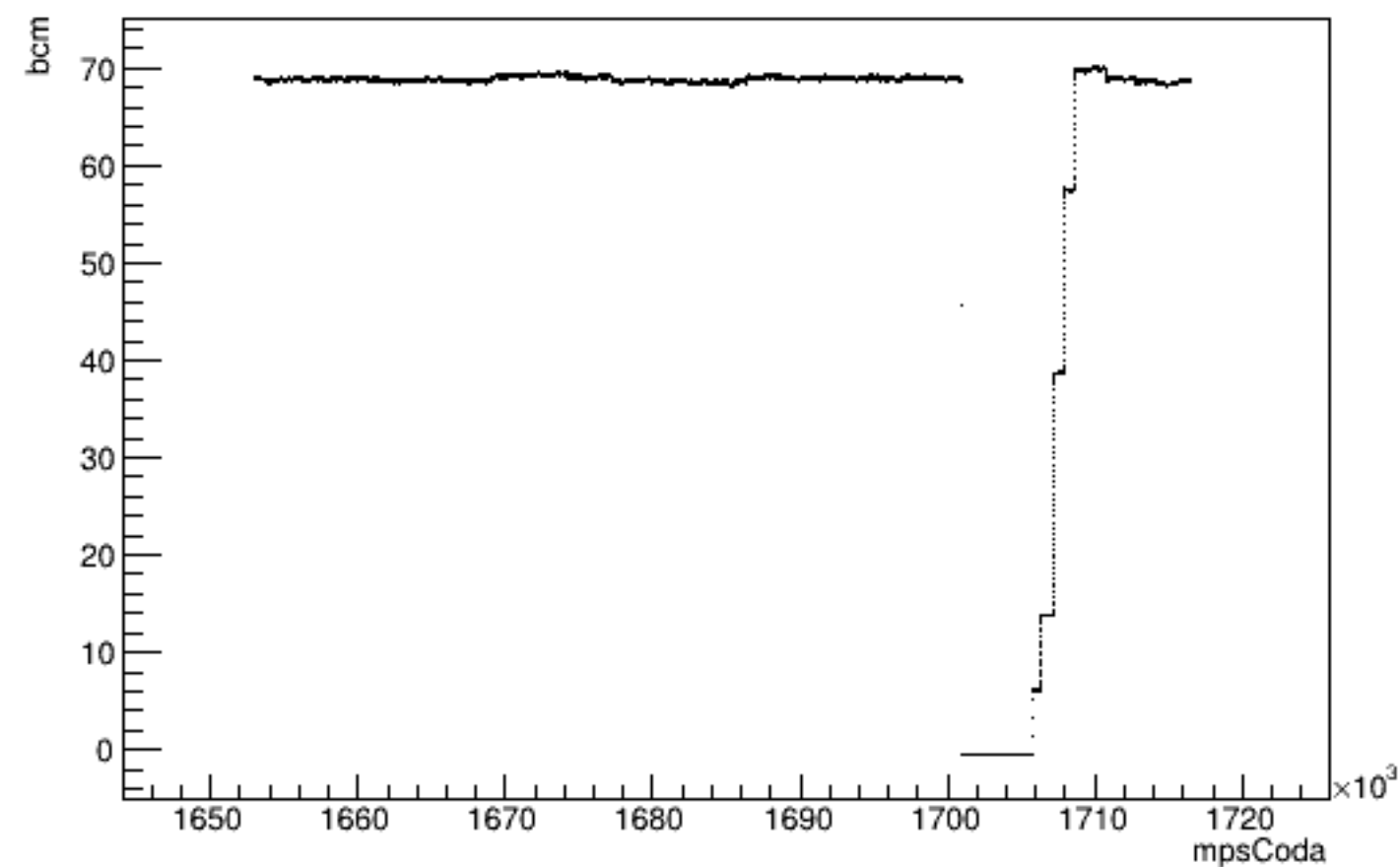
beamState + 1:mpsCoda {mpsCoda&gt;=1652985 &amp;&amp; mpsCoda&lt;=1716424}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1652985 &amp;&amp; mpsCoda&lt;=1716424}



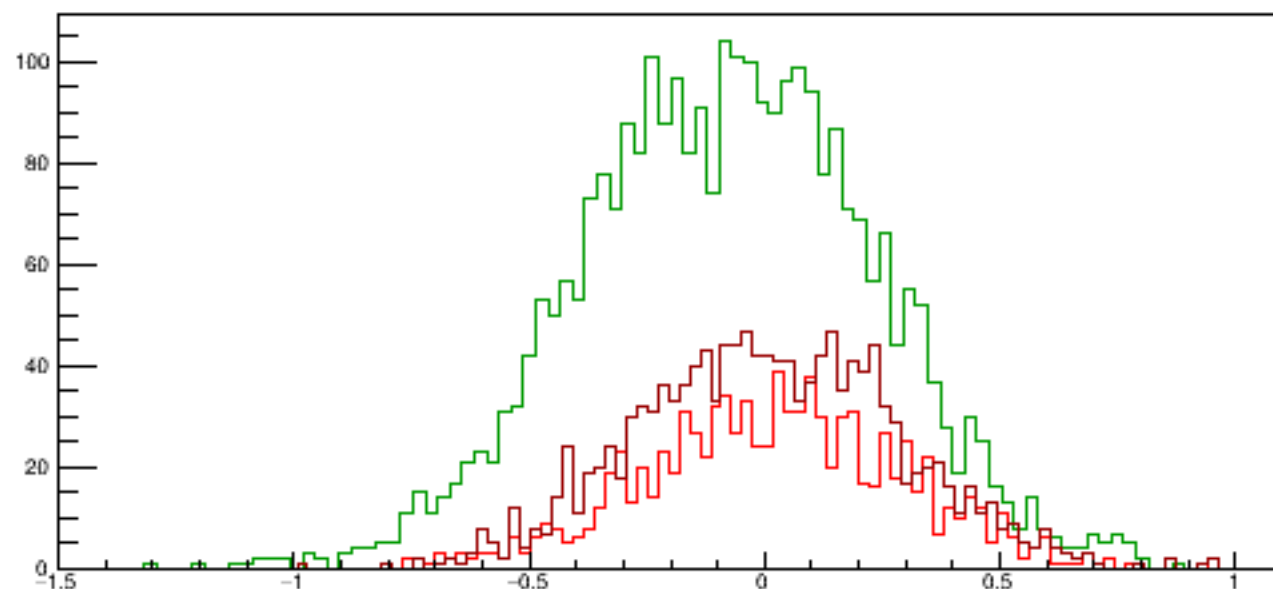
bcm:mpsCoda {mpsCoda&gt;=1652985 &amp;&amp; mpsCoda&lt;=1716424}



## Cycle 20, Diffs

| Entries: 960               | Entries: 3006              | Entries: 1378              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0169 +/- 0.0089    | Mean: -0.0789 +/- 0.0057   | Mean: 0.0070 +/- 0.0074    |
| Std Dev: 0.2756 +/- 0.0063 | Std Dev: 0.3104 +/- 0.0040 | Std Dev: 0.2758 +/- 0.0053 |

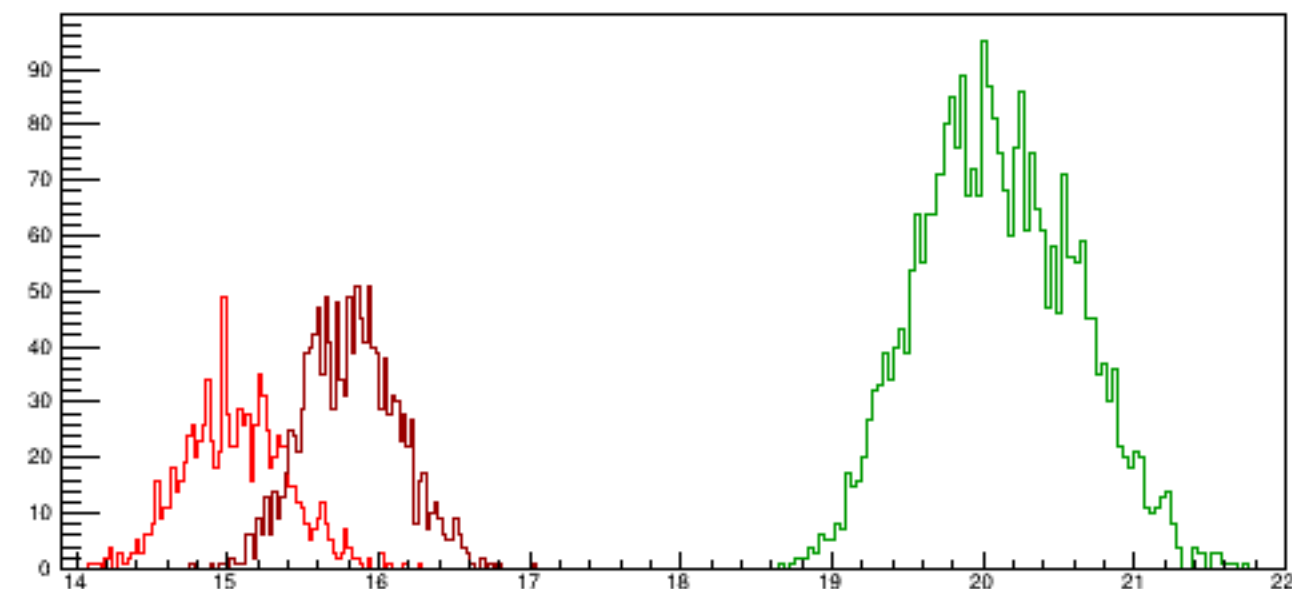
Run 4401 quartetwise, Diffs



## Cycle 20, Sums

| Entries: 960               | Entries: 3006              | Entries: 1378              |
|----------------------------|----------------------------|----------------------------|
| Mean: 15.0577 +/- 0.0111   | Mean: 20.0886 +/- 0.0093   | Mean: 15.8223 +/- 0.0084   |
| Std Dev: 0.3432 +/- 0.0078 | Std Dev: 0.5113 +/- 0.0066 | Std Dev: 0.3115 +/- 0.0059 |

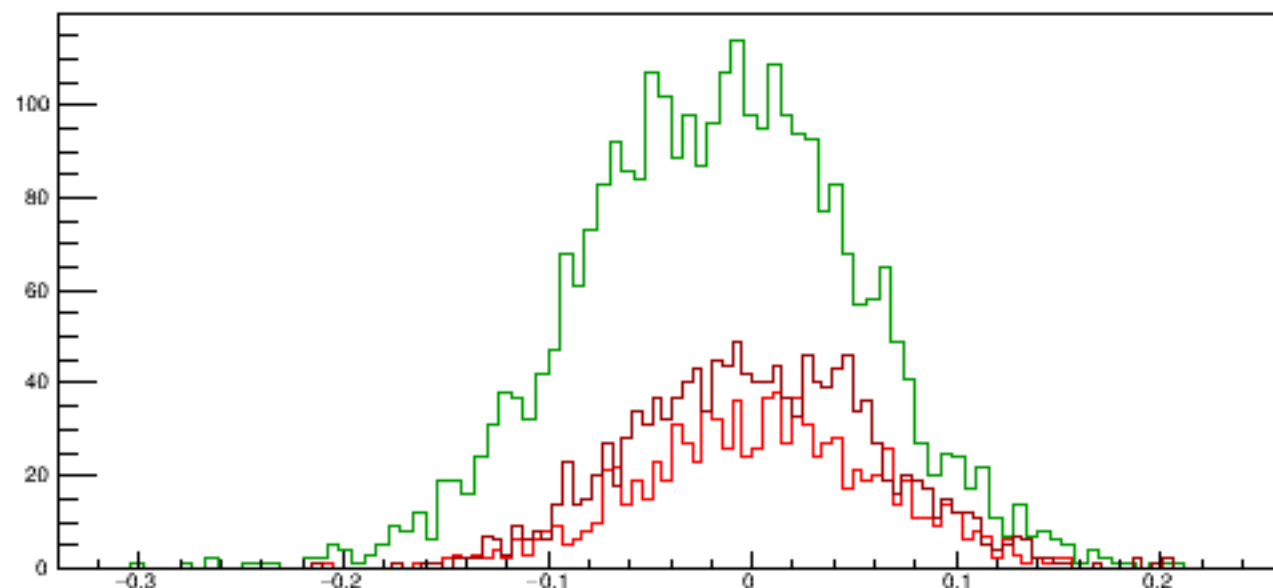
Run 4401 quartetwise, Sums



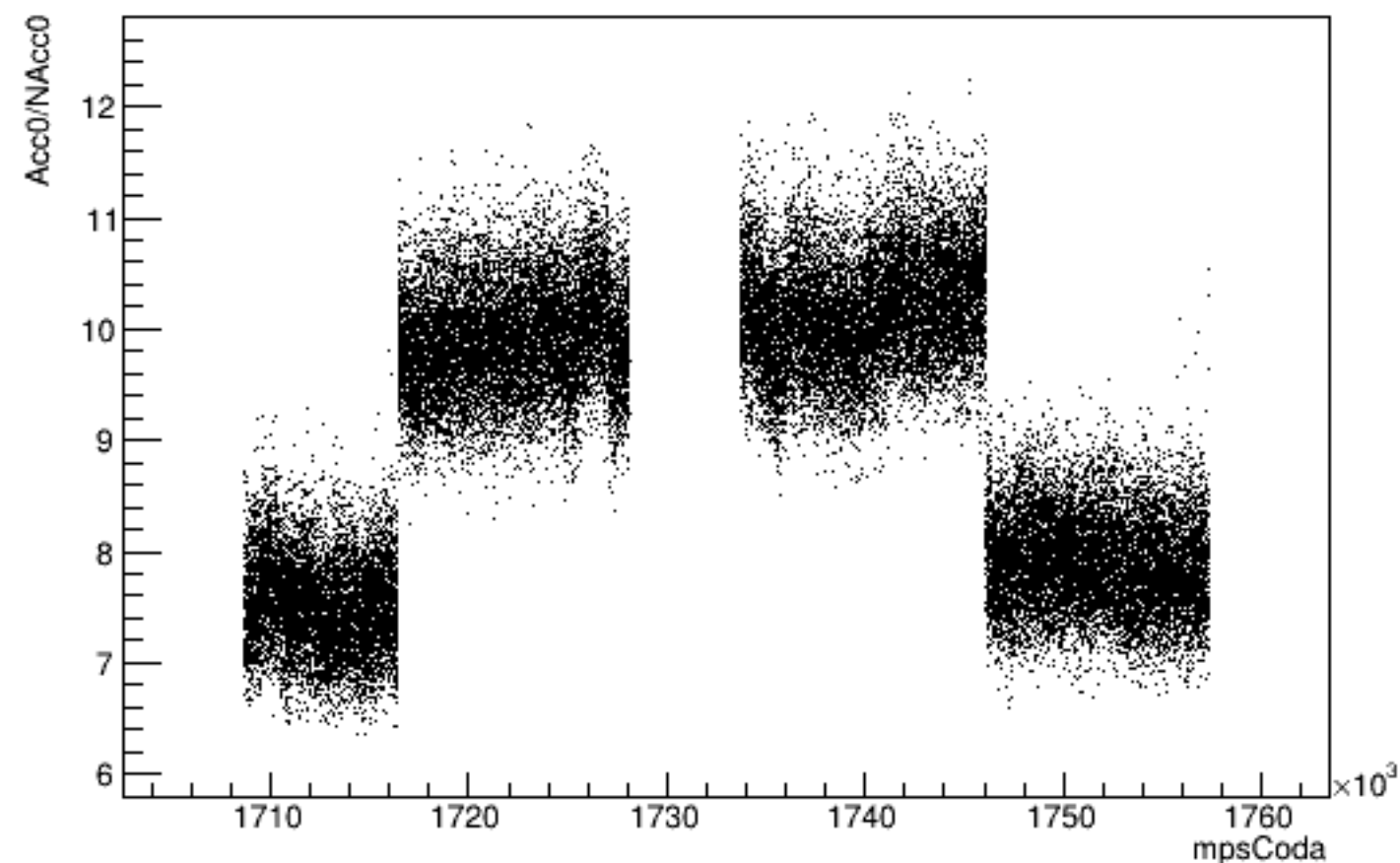
## Cycle 20, Asyms

| Entries: 960               | Entries: 3006              | Entries: 1378              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0036 +/- 0.0019    | Mean: -0.0173 +/- 0.0012   | Mean: 0.0015 +/- 0.0016    |
| Std Dev: 0.0593 +/- 0.0014 | Std Dev: 0.0679 +/- 0.0009 | Std Dev: 0.0593 +/- 0.0011 |

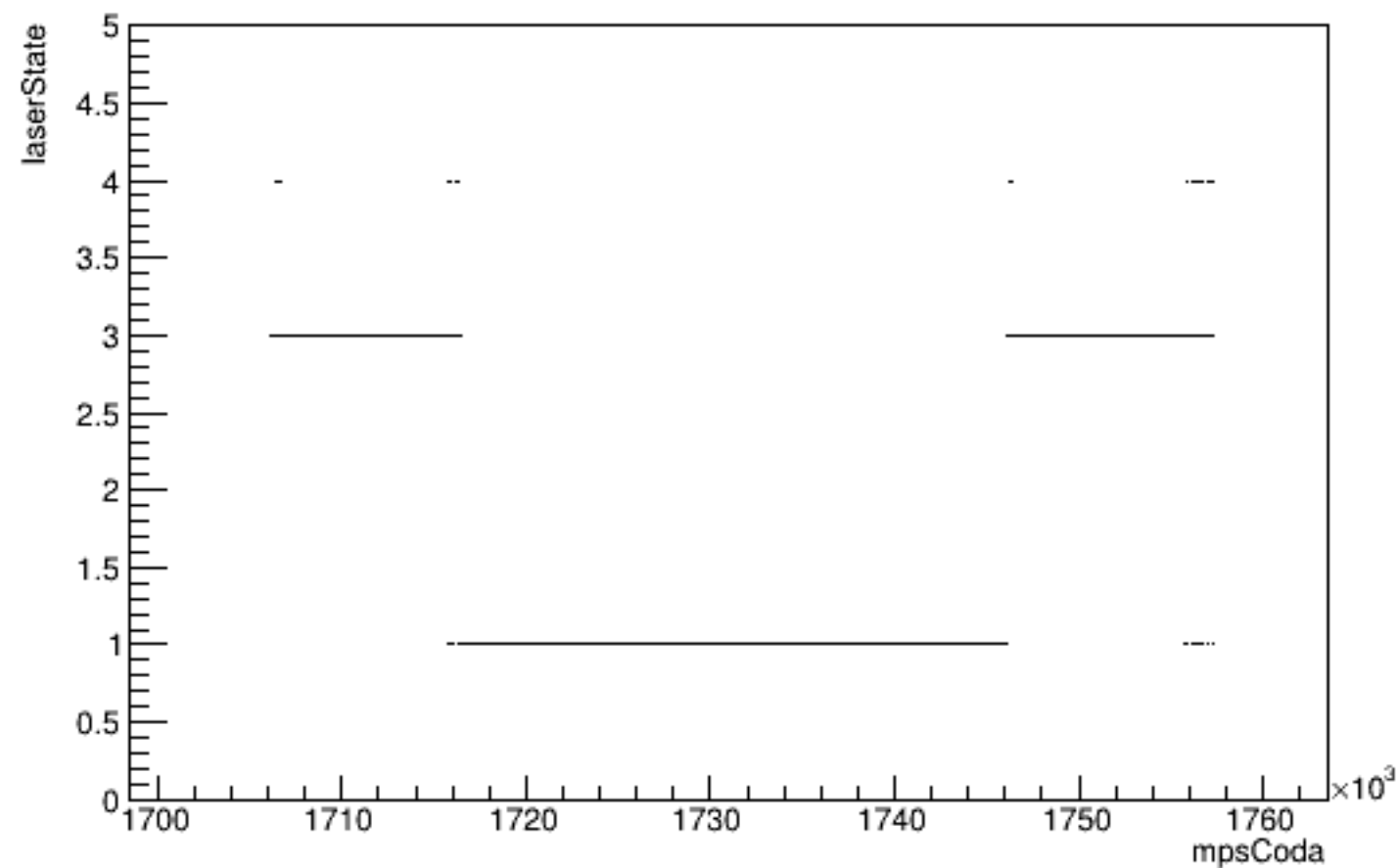
Run 4401 quartetwise, Asyms



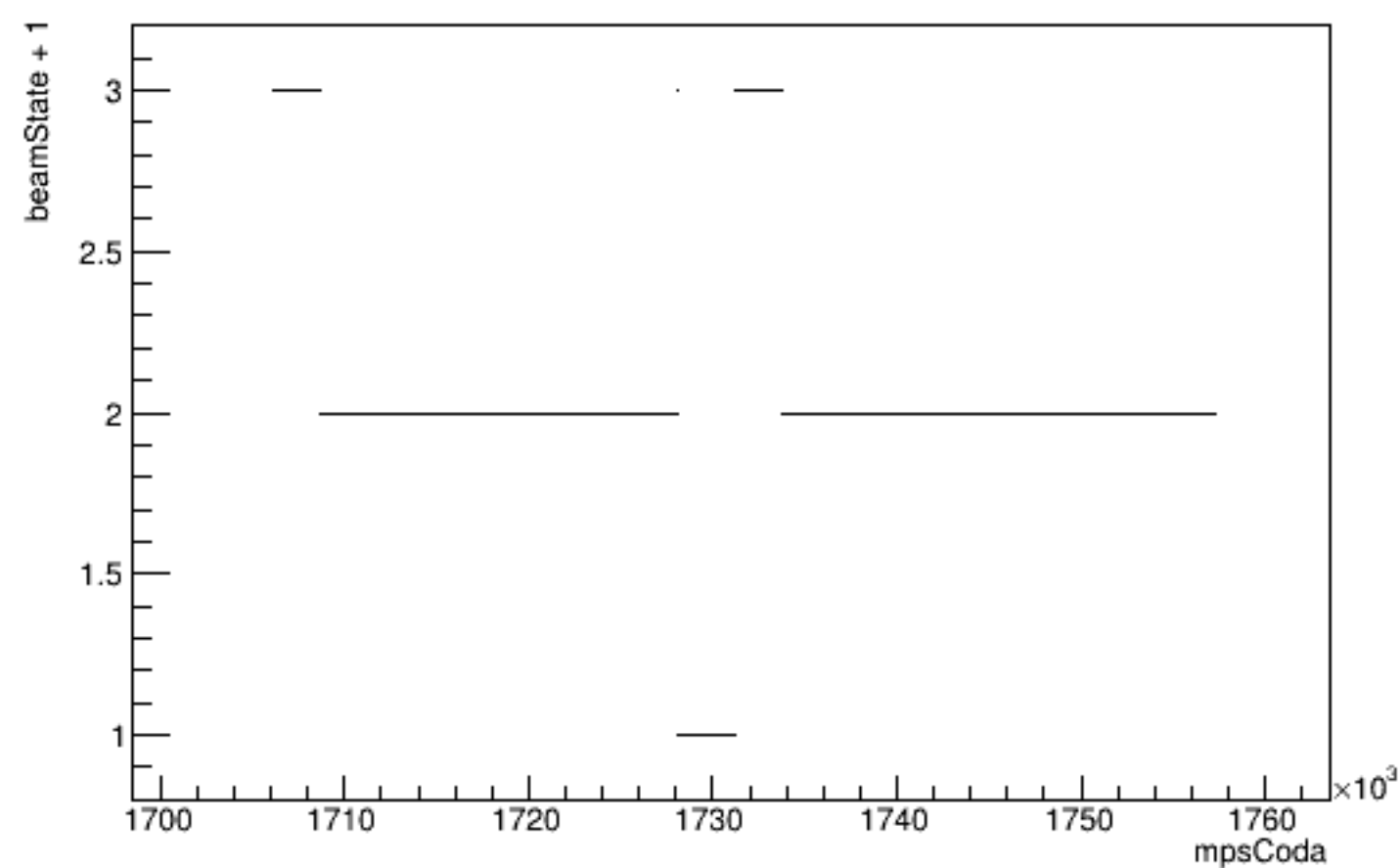
Acc0/NAcc0:mpsCoda (mpsCoda>=1706153 && mpsCoda<=1757328 && beamState==1)



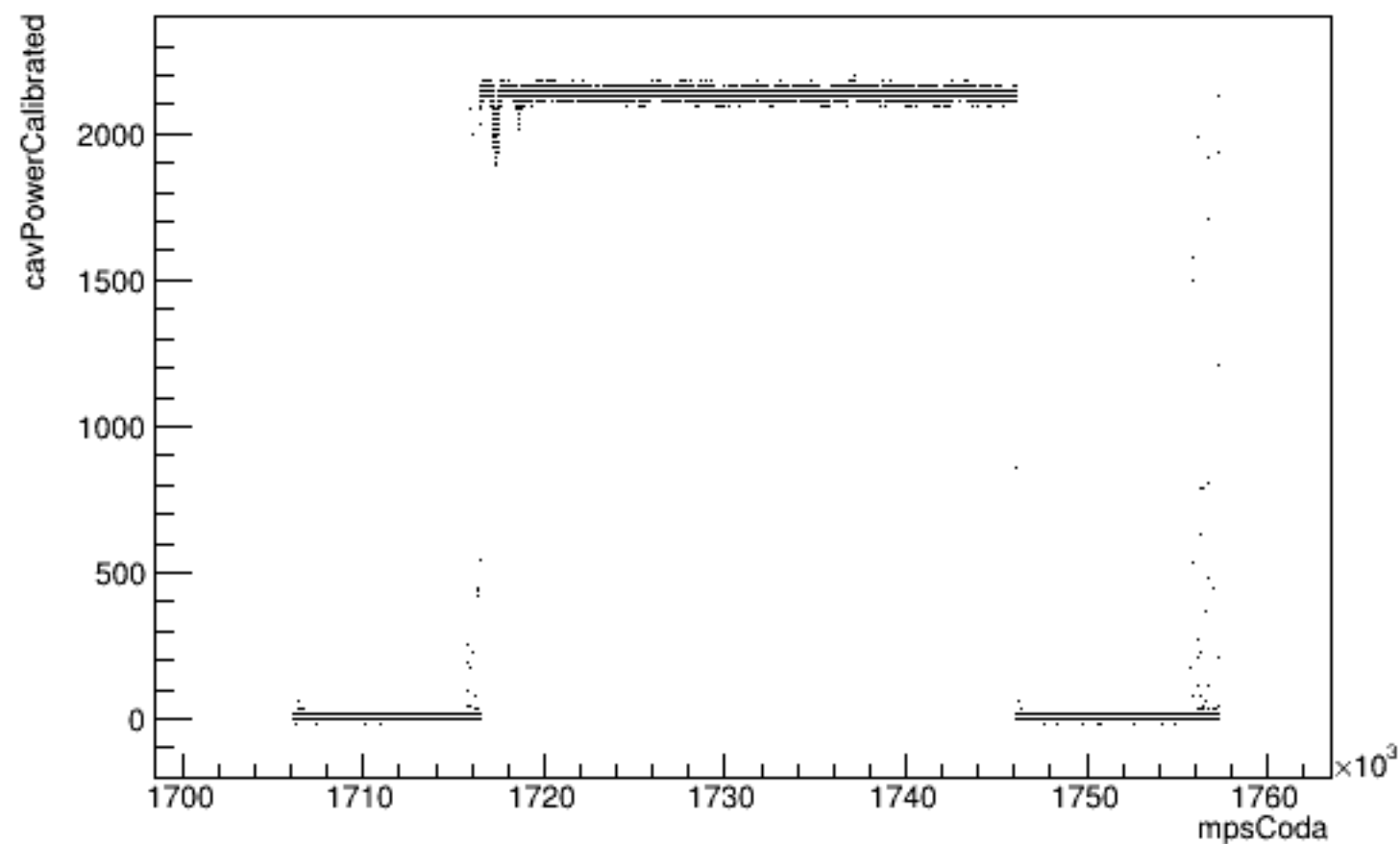
laserState:mpsCoda {mpsCoda&gt;=1706153 &amp;&amp; mpsCoda&lt;=1757328}



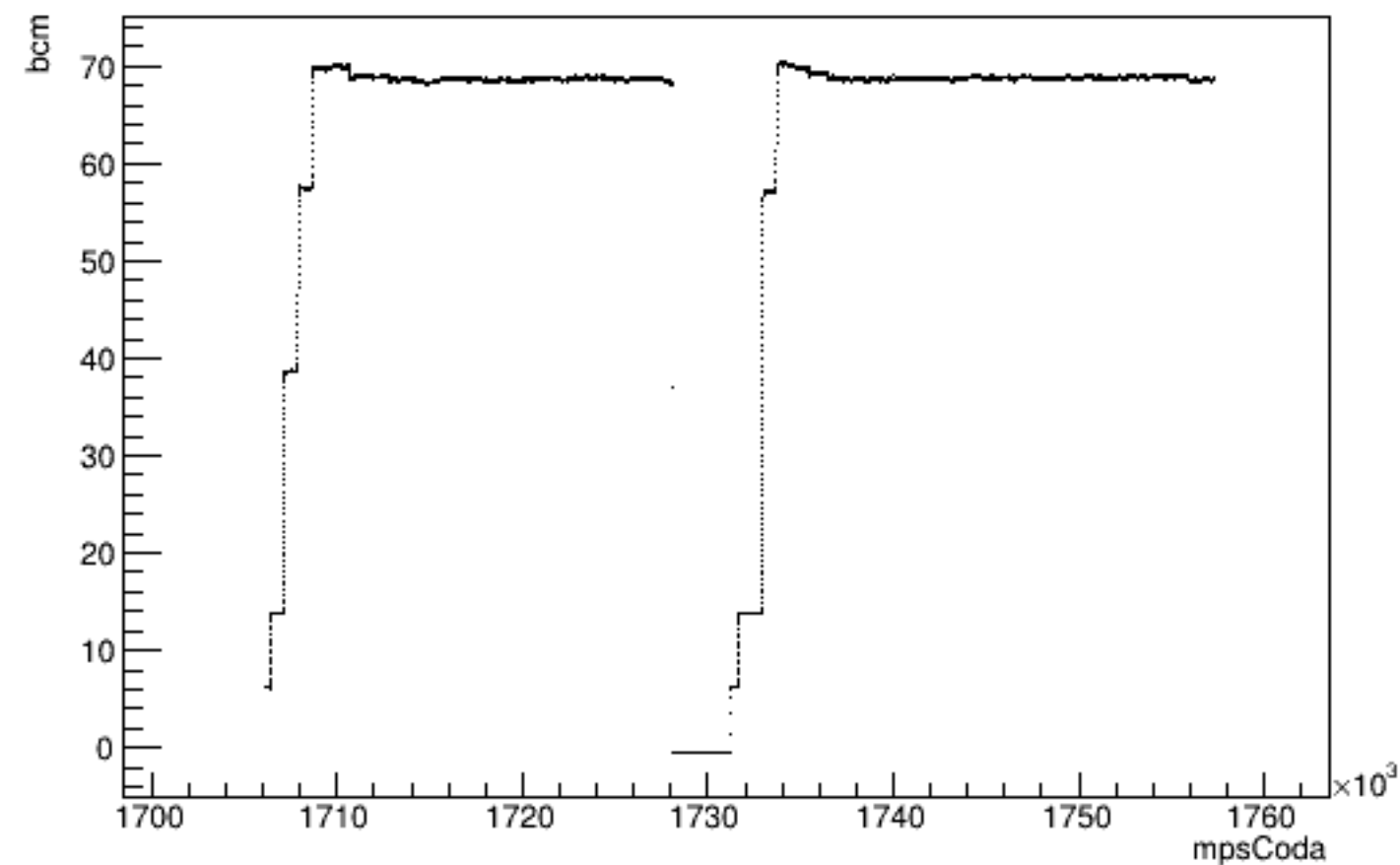
beamState + 1:mpsCoda {mpsCoda&gt;=1706153 &amp;&amp; mpsCoda&lt;=1757328}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1706153 &amp;&amp; mpsCoda&lt;=1757328}



bcm:mpsCoda {mpsCoda&gt;=1706153 &amp;&amp; mpsCoda&lt;=1757328}



## Cycle 21, Diffs

Entries: 1378

Mean: 0.0070 +/- 0.0074

Std Dev: 0.2758 +/- 0.0053

Entries: 3772

Mean: -0.0697 +/- 0.0051

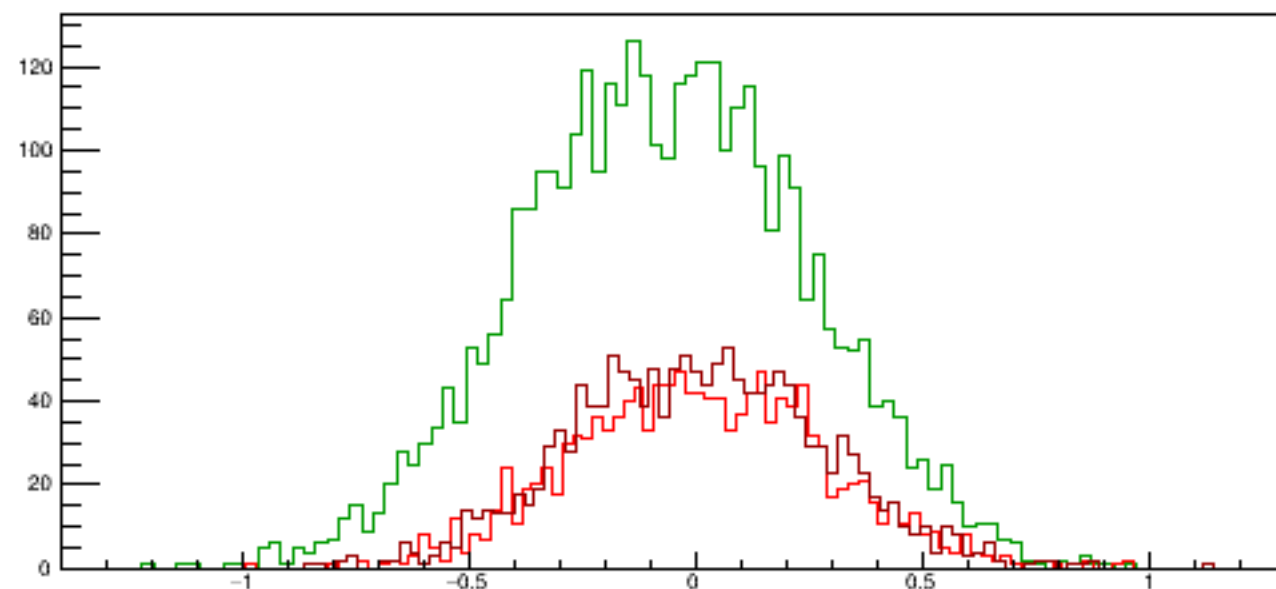
Std Dev: 0.3137 +/- 0.0036

Entries: 1509

Mean: 0.0024 +/- 0.0071

Std Dev: 0.2757 +/- 0.0050

Run 4401 quartetwise, Diffs



## Cycle 21, Sums

Entries: 1378

Mean: 15.8223 +/- 0.0084

Std Dev: 0.3115 +/- 0.0059

Entries: 3772

Mean: 20.6999 +/- 0.0062

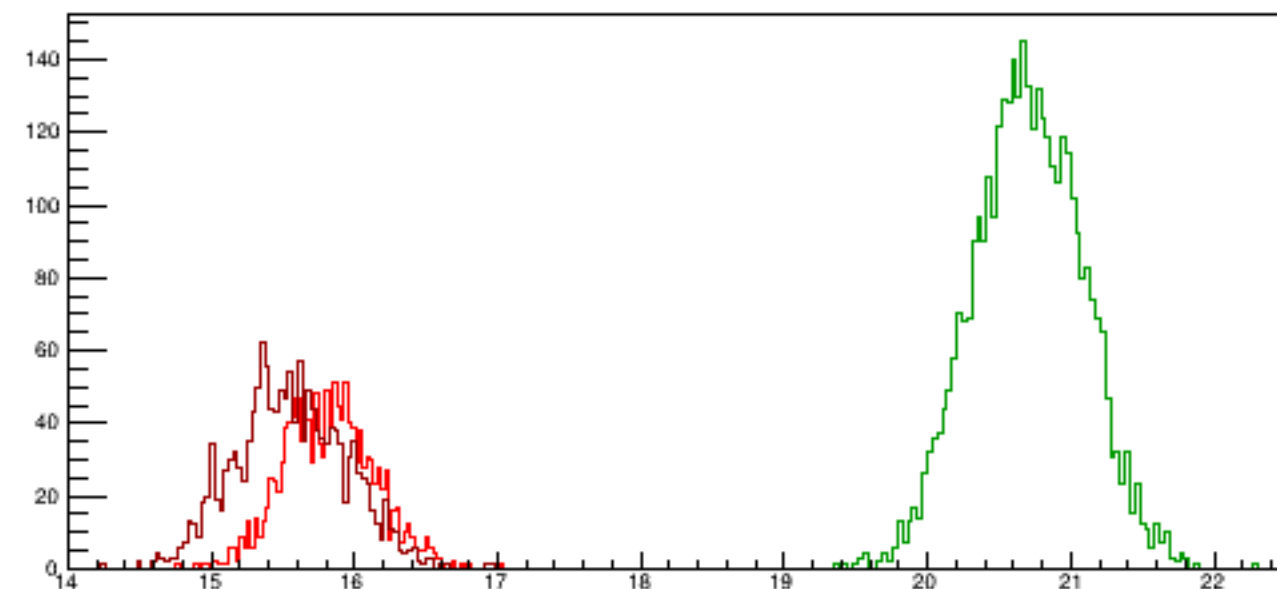
Std Dev: 0.3803 +/- 0.0044

Entries: 1509

Mean: 15.5535 +/- 0.0098

Std Dev: 0.3820 +/- 0.0070

Run 4401 quartetwise, Sums



## Cycle 21, Asyms

Entries: 1378

Mean: 0.0014 +/- 0.0015

Std Dev: 0.0550 +/- 0.0010

Entries: 3772

Mean: -0.0140 +/- 0.0010

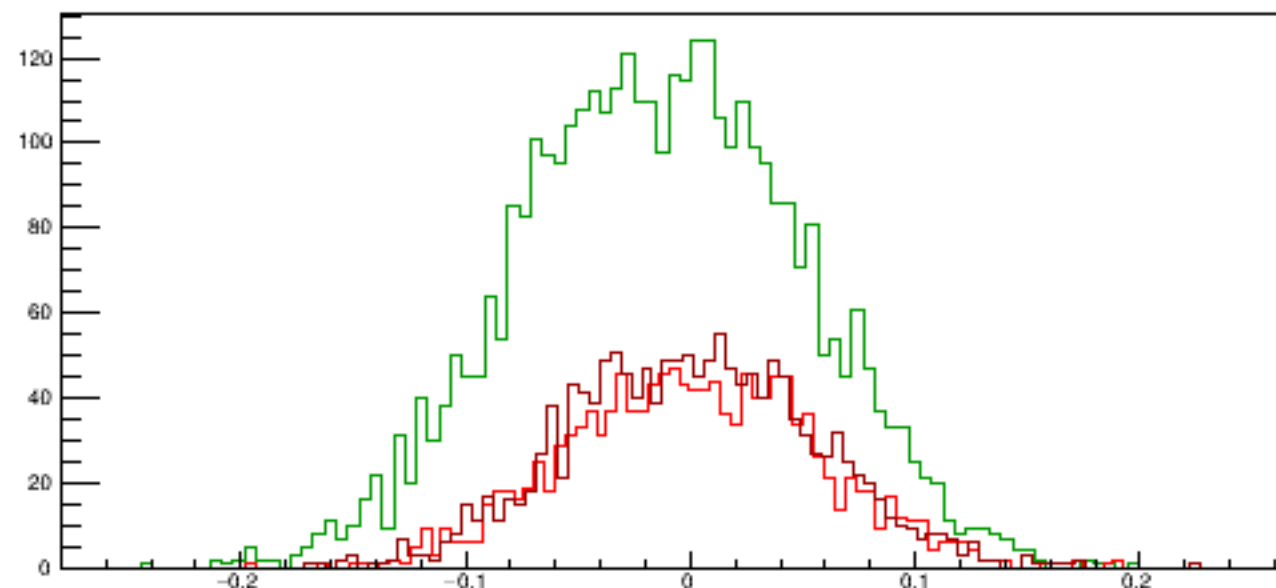
Std Dev: 0.0628 +/- 0.0007

Entries: 1509

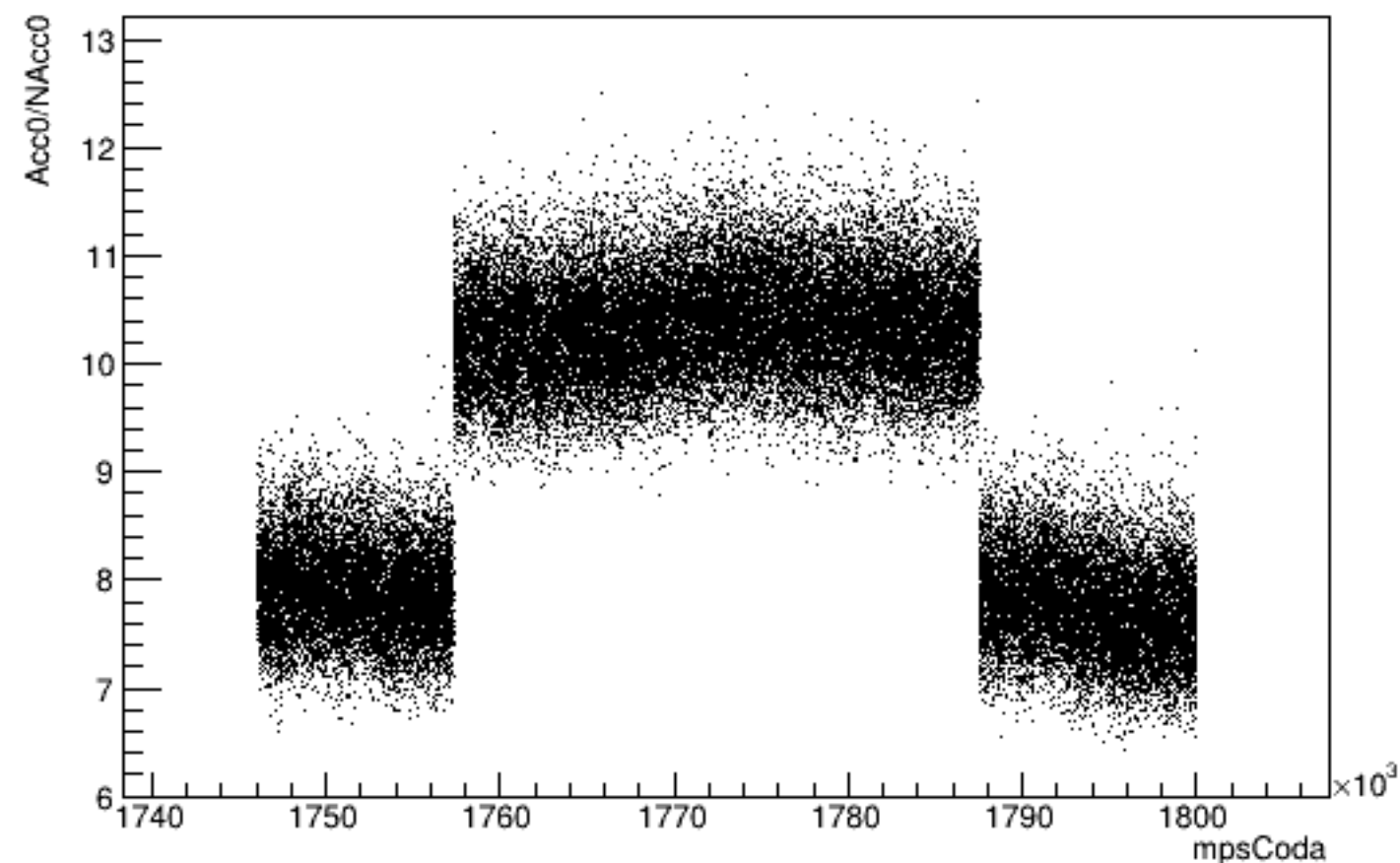
Mean: 0.0005 +/- 0.0014

Std Dev: 0.0550 +/- 0.0010

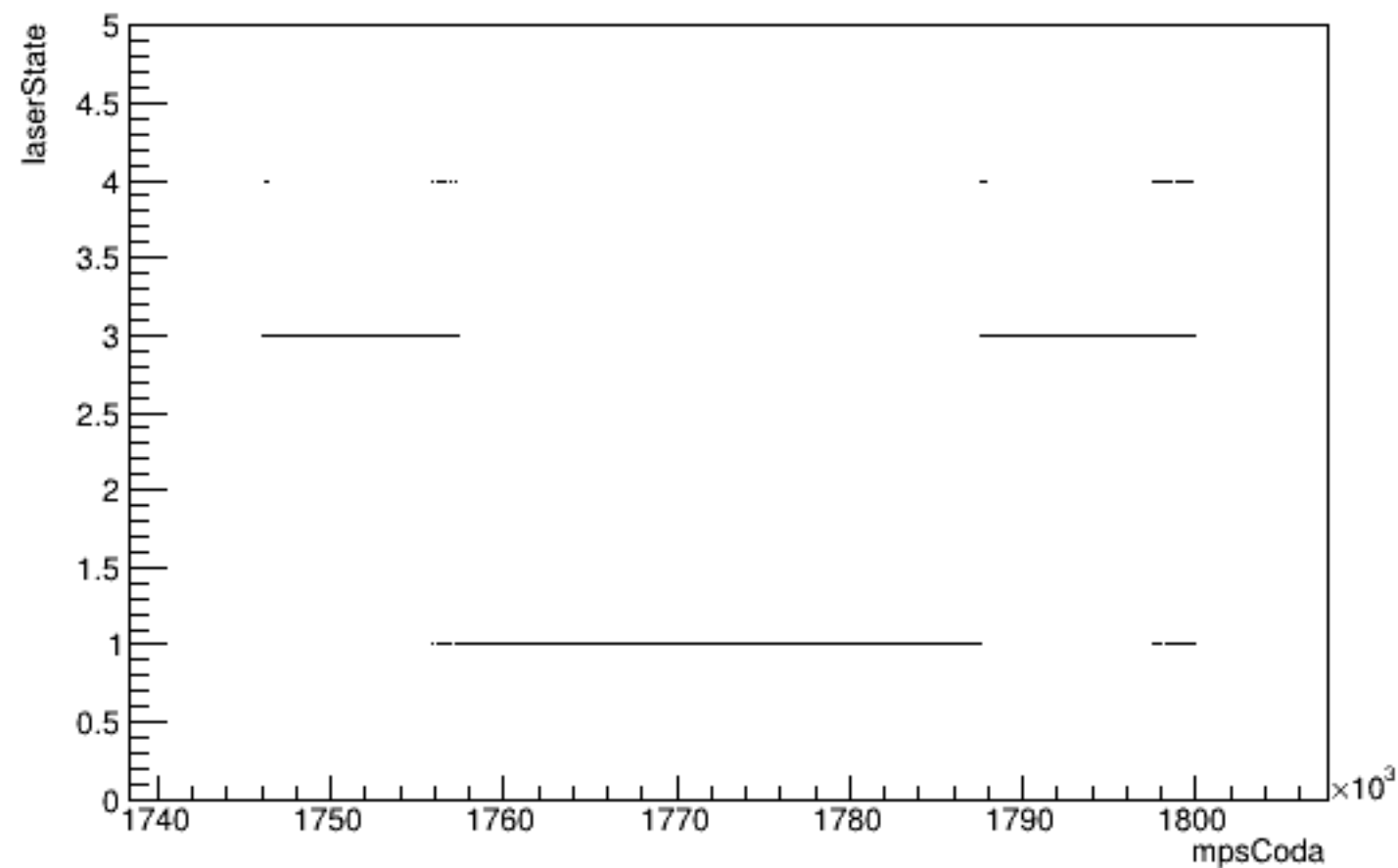
Run 4401 quartetwise, Asyms



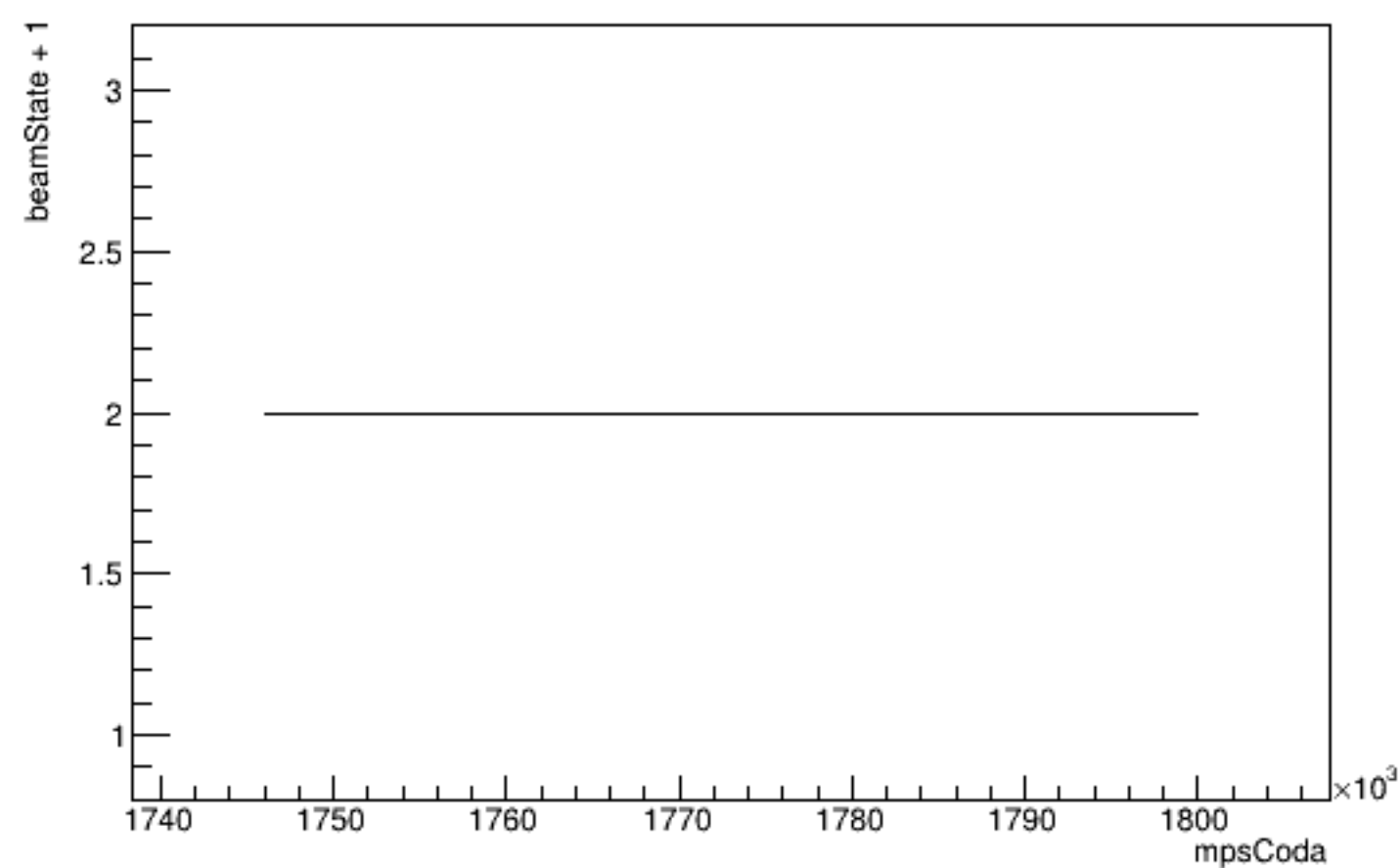
Acc0/NAcc0:mpsCoda (mpsCoda>=1746097 && mpsCoda<=1799976 && beamState==1)



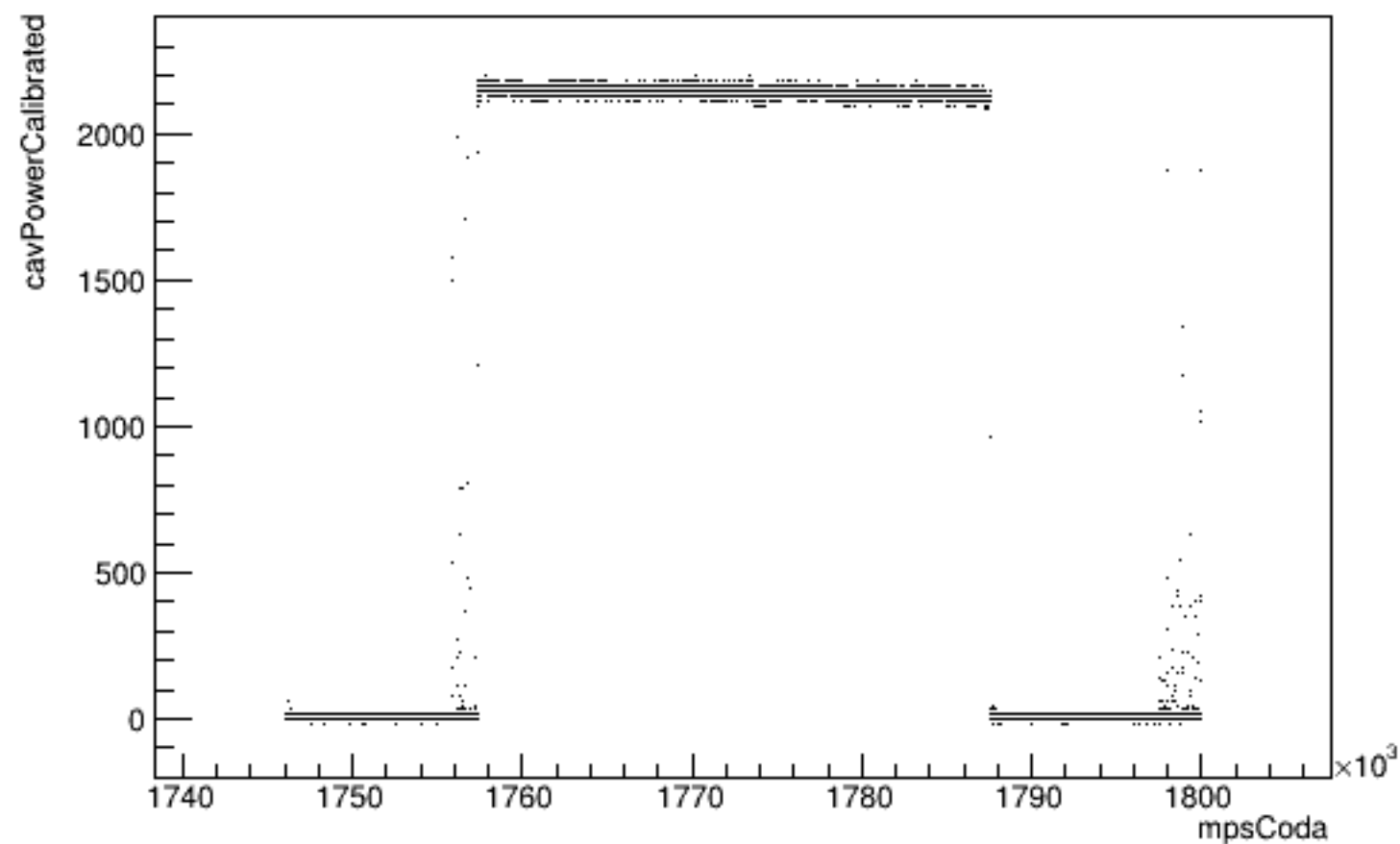
laserState:mpsCoda {mpsCoda&gt;=1746097 &amp;&amp; mpsCoda&lt;=1799976}



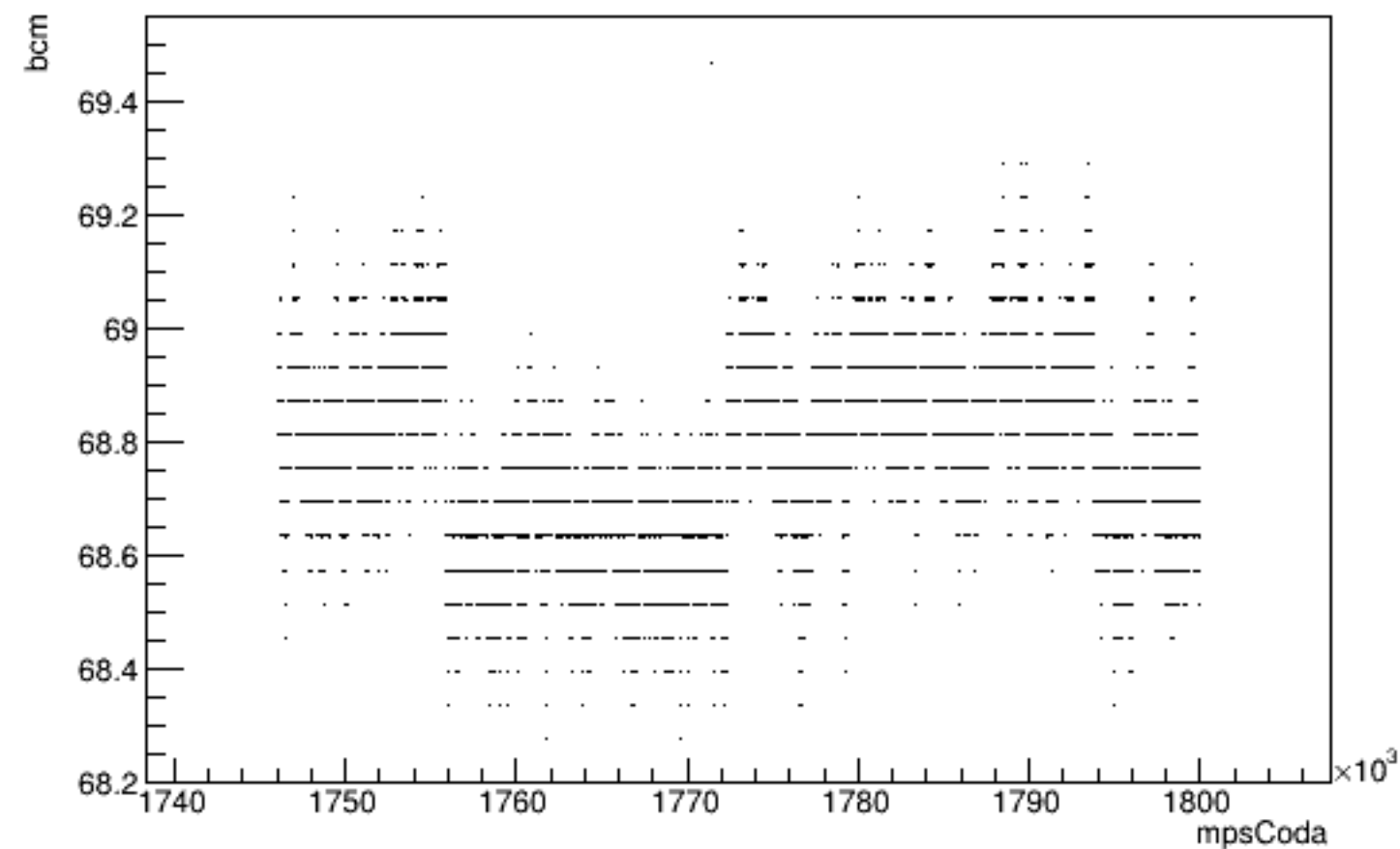
beamState + 1:mpsCoda {mpsCoda&gt;=1746097 &amp;&amp; mpsCoda&lt;=1799976}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1746097 &amp;&amp; mpsCoda&lt;=1799976}



bcm:mpsCoda {mpsCoda&gt;=1746097 &amp;&amp; mpsCoda&lt;=1799976}



## Cycle 22, Diffs

Entries: 1509

Mean: 0.0024 +/- 0.0071

Std Dev: 0.2757 +/- 0.0050

Entries: 3799

Mean: -0.0880 +/- 0.0051

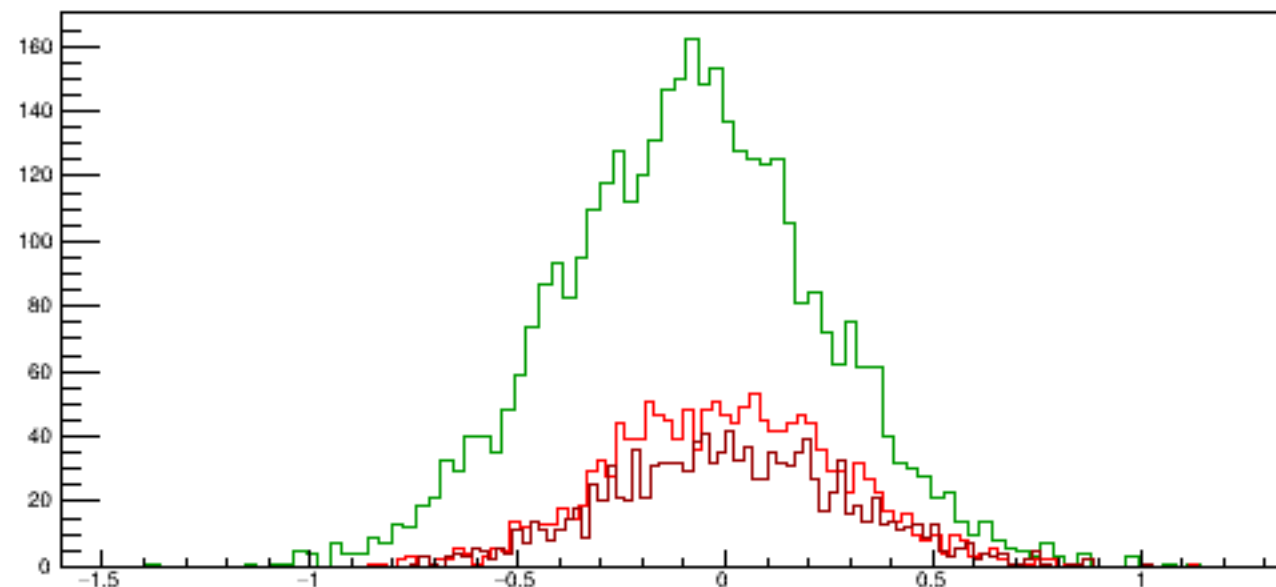
Std Dev: 0.3152 +/- 0.0036

Entries: 1260

Mean: 0.0131 +/- 0.0081

Std Dev: 0.2865 +/- 0.0057

Run 4401 quartetwise, Diffs



## Cycle 22, Sums

Entries: 1509

Mean: 15.5535 +/- 0.0098

Std Dev: 0.3820 +/- 0.0070

Entries: 3799

Mean: 20.1783 +/- 0.0147

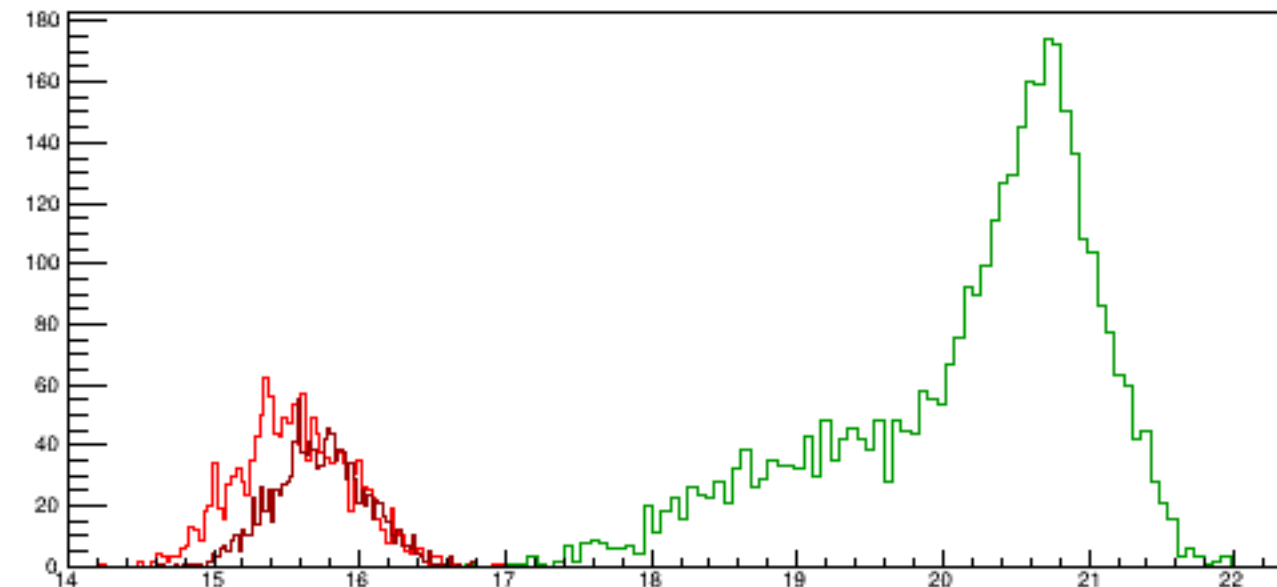
Std Dev: 0.9044 +/- 0.0104

Entries: 1260

Mean: 15.7297 +/- 0.0090

Std Dev: 0.3208 +/- 0.0064

Run 4401 quartetwise, Sums



## Cycle 22, Asyms

Entries: 1509

Mean: 0.0005 +/- 0.0016

Std Dev: 0.0608 +/- 0.0011

Entries: 3799

Mean: -0.0203 +/- 0.0012

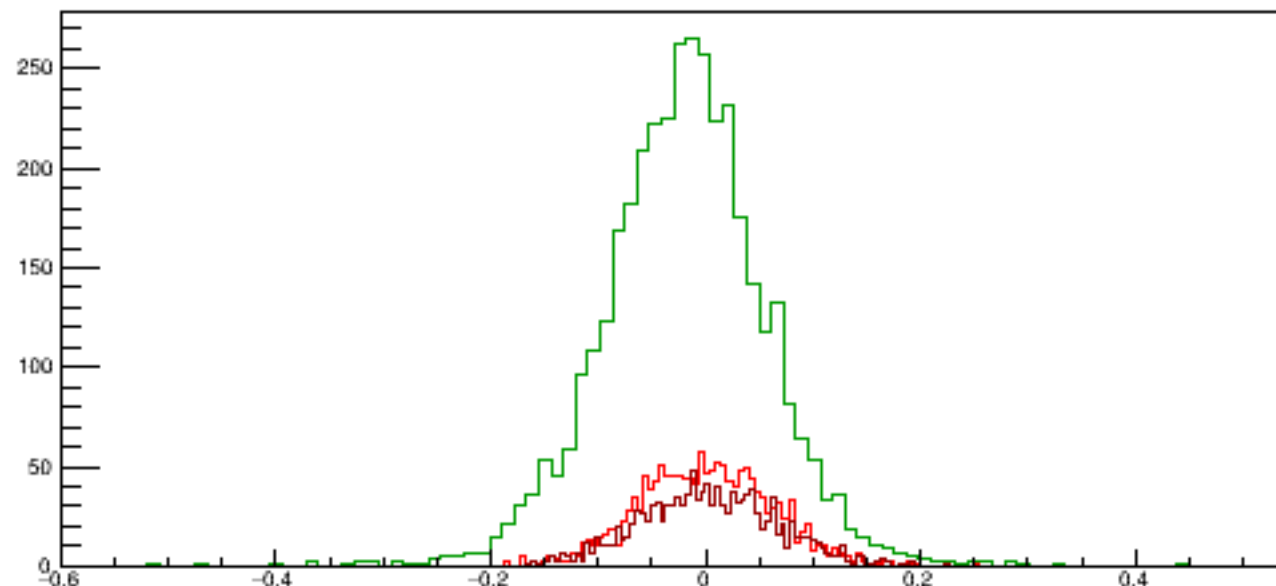
Std Dev: 0.0761 +/- 0.0009

Entries: 1260

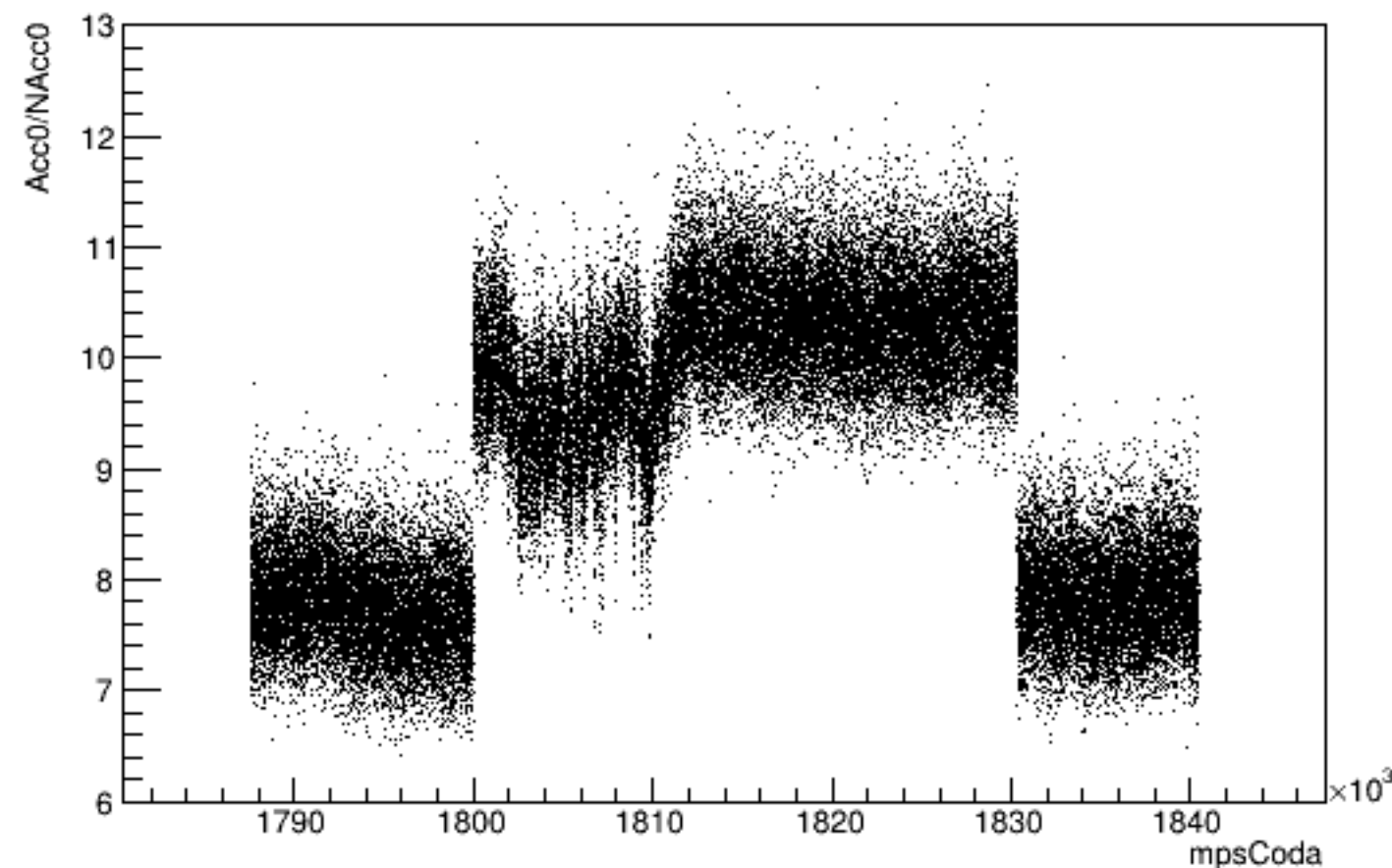
Mean: 0.0029 +/- 0.0018

Std Dev: 0.0631 +/- 0.0013

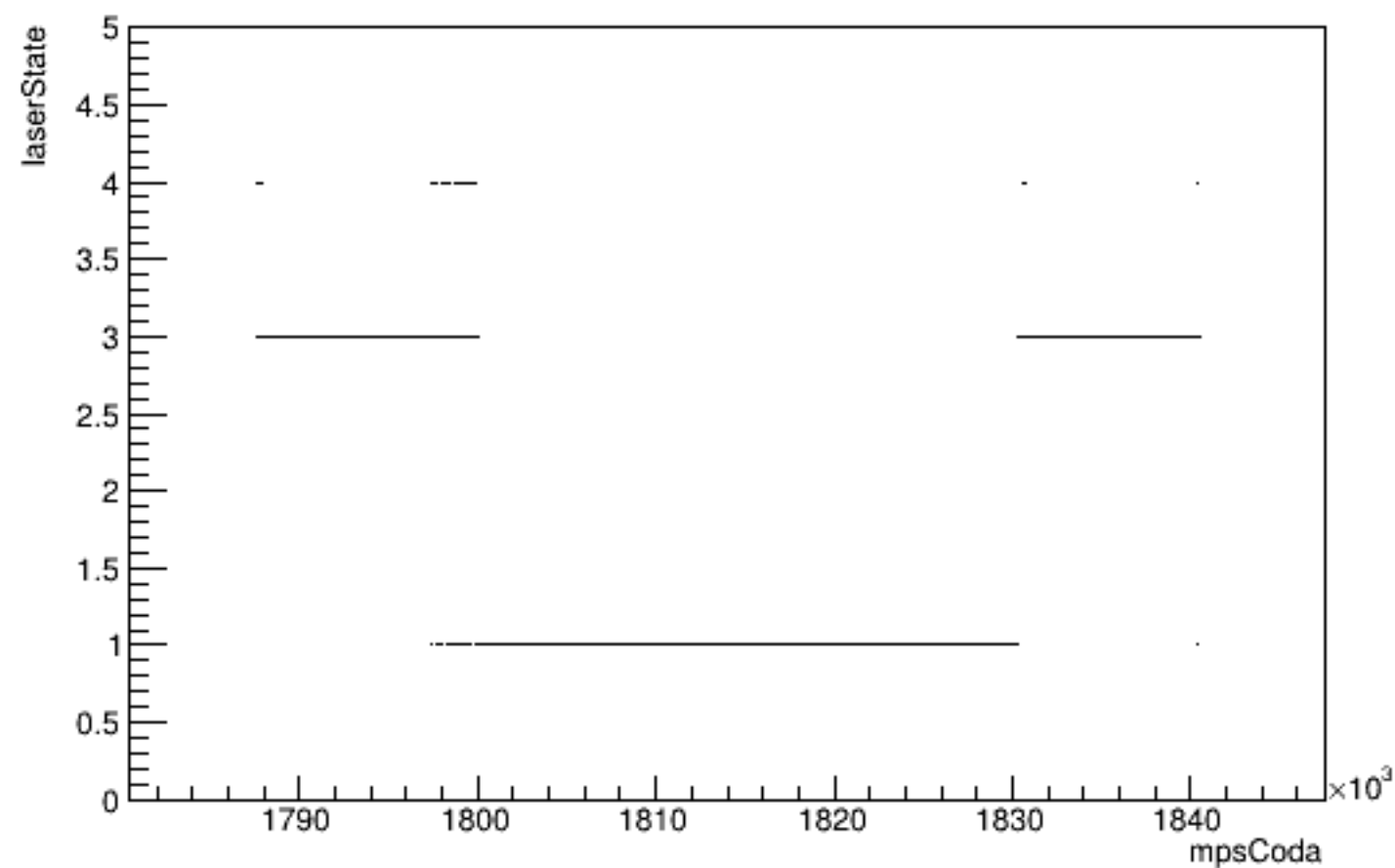
Run 4401 quartetwise, Asyms



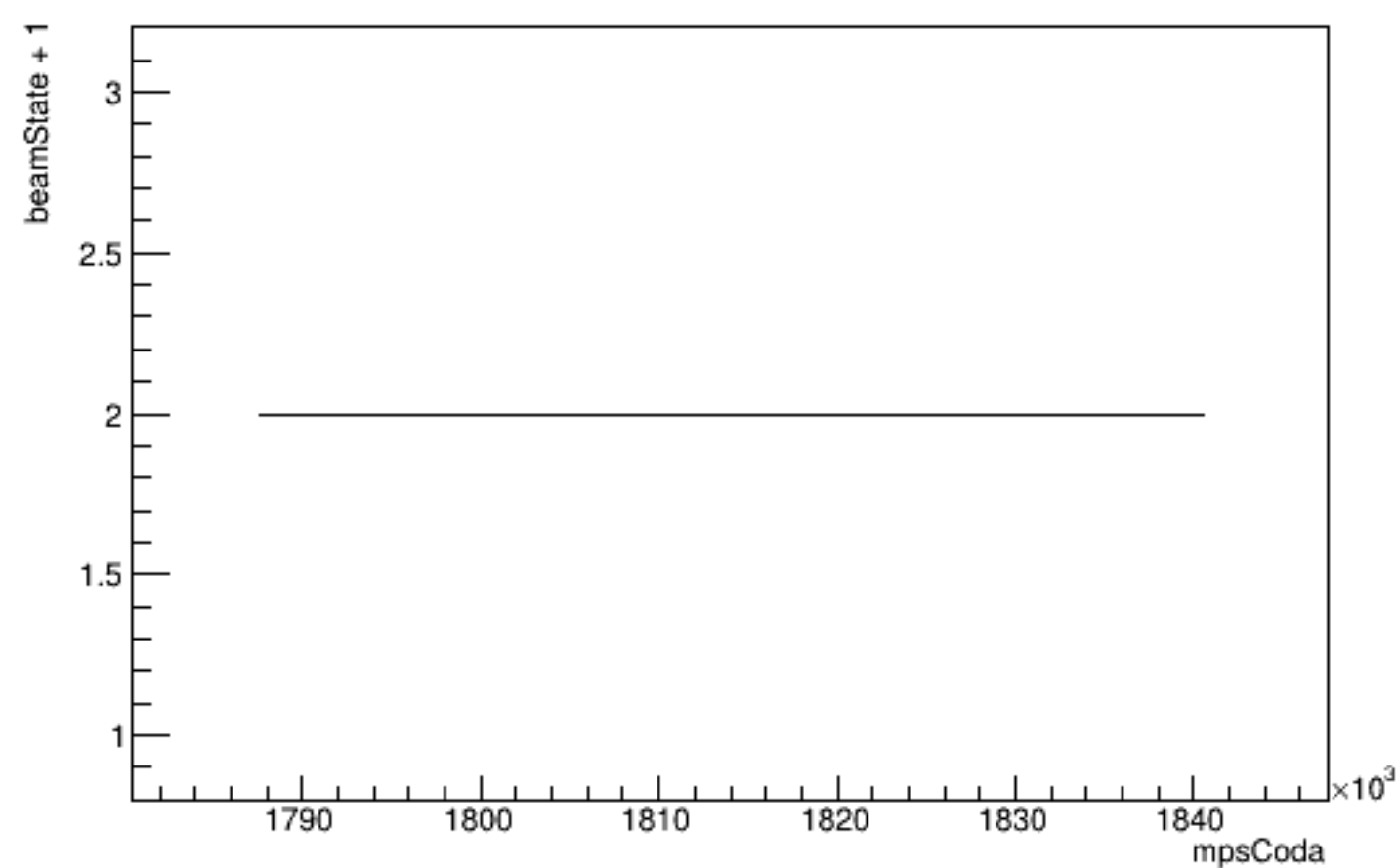
Acc0/NAcc0:mpsCoda (mpsCoda>=1787521 && mpsCoda<=1840496 && beamState==1)



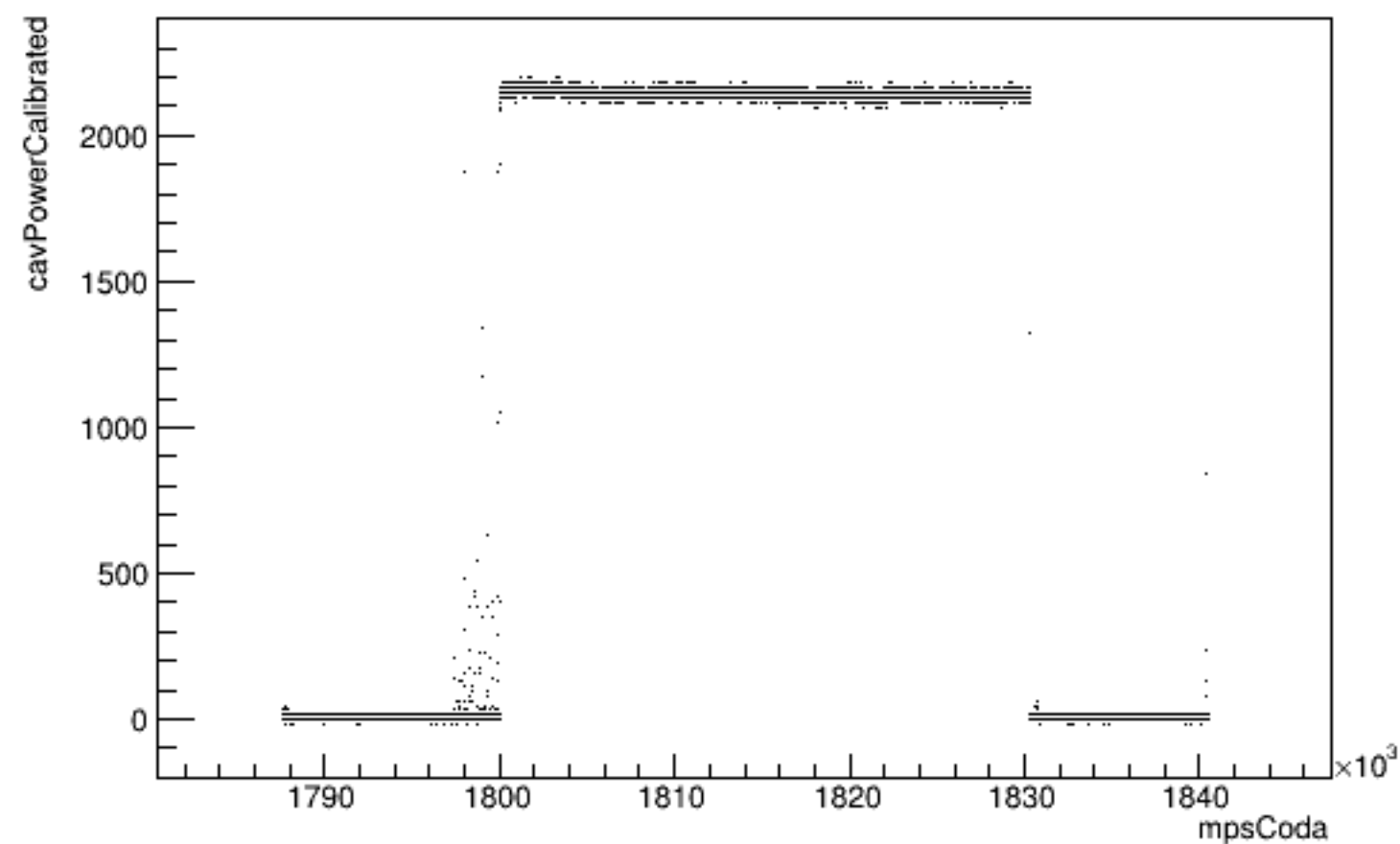
laserState:mpsCoda {mpsCoda&gt;=1787521 &amp;&amp; mpsCoda&lt;=1840496}



beamState + 1:mpsCoda {mpsCoda&gt;=1787521 &amp;&amp; mpsCoda&lt;=1840496}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1787521 &amp;&amp; mpsCoda&lt;=1840496}



bcm:mpsCoda {mpsCoda&gt;=1787521 &amp;&amp; mpsCoda&lt;=1840496}

