

## Cycle 1, Diffs

Entries: 2007

Mean: -0.0007 +/- 0.0070

Std Dev: 0.3142 +/- 0.0050

Entries: 3725

Mean: 0.0729 +/- 0.0057

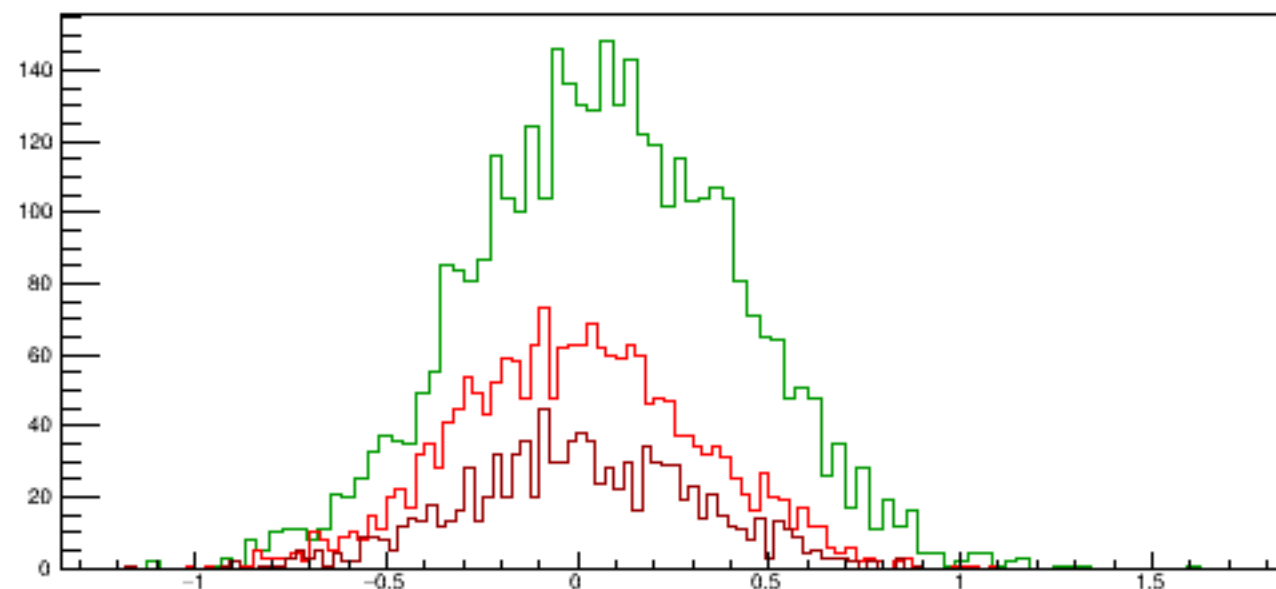
Std Dev: 0.3491 +/- 0.0040

Entries: 1018

Mean: 0.0048 +/- 0.0097

Std Dev: 0.3097 +/- 0.0069

Run 4413 quartetwise, Diffs



## Cycle 1, Sums

Entries: 2007

Mean: 13.8802 +/- 0.0083

Std Dev: 0.3707 +/- 0.0059

Entries: 3725

Mean: 18.8675 +/- 0.0065

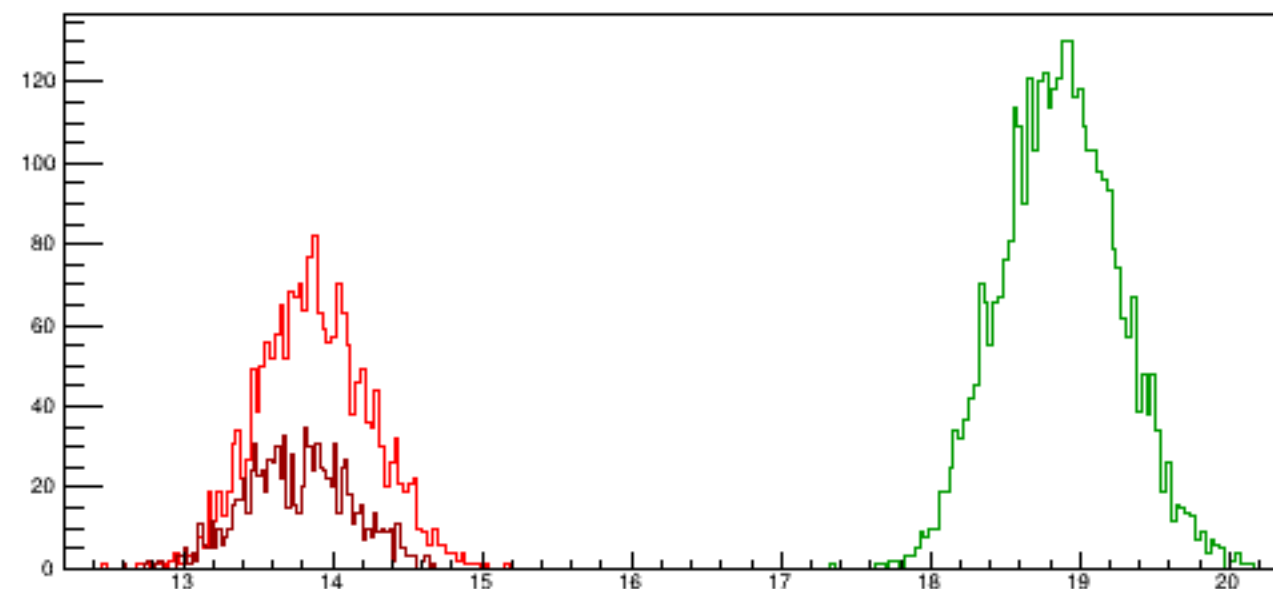
Std Dev: 0.3945 +/- 0.0046

Entries: 1018

Mean: 13.7682 +/- 0.0111

Std Dev: 0.3540 +/- 0.0078

Run 4413 quartetwise, Sums



## Cycle 1, Asyms

Entries: 2007

Mean: -0.0001 +/- 0.0014

Std Dev: 0.0623 +/- 0.0010

Entries: 3725

Mean: 0.0145 +/- 0.0011

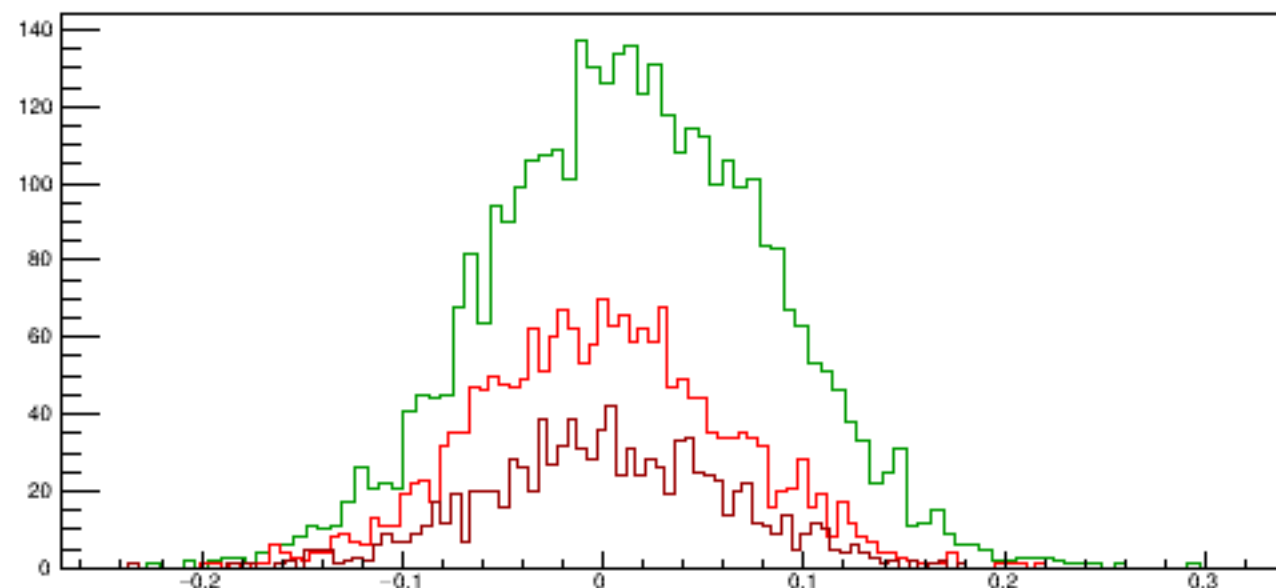
Std Dev: 0.0695 +/- 0.0008

Entries: 1018

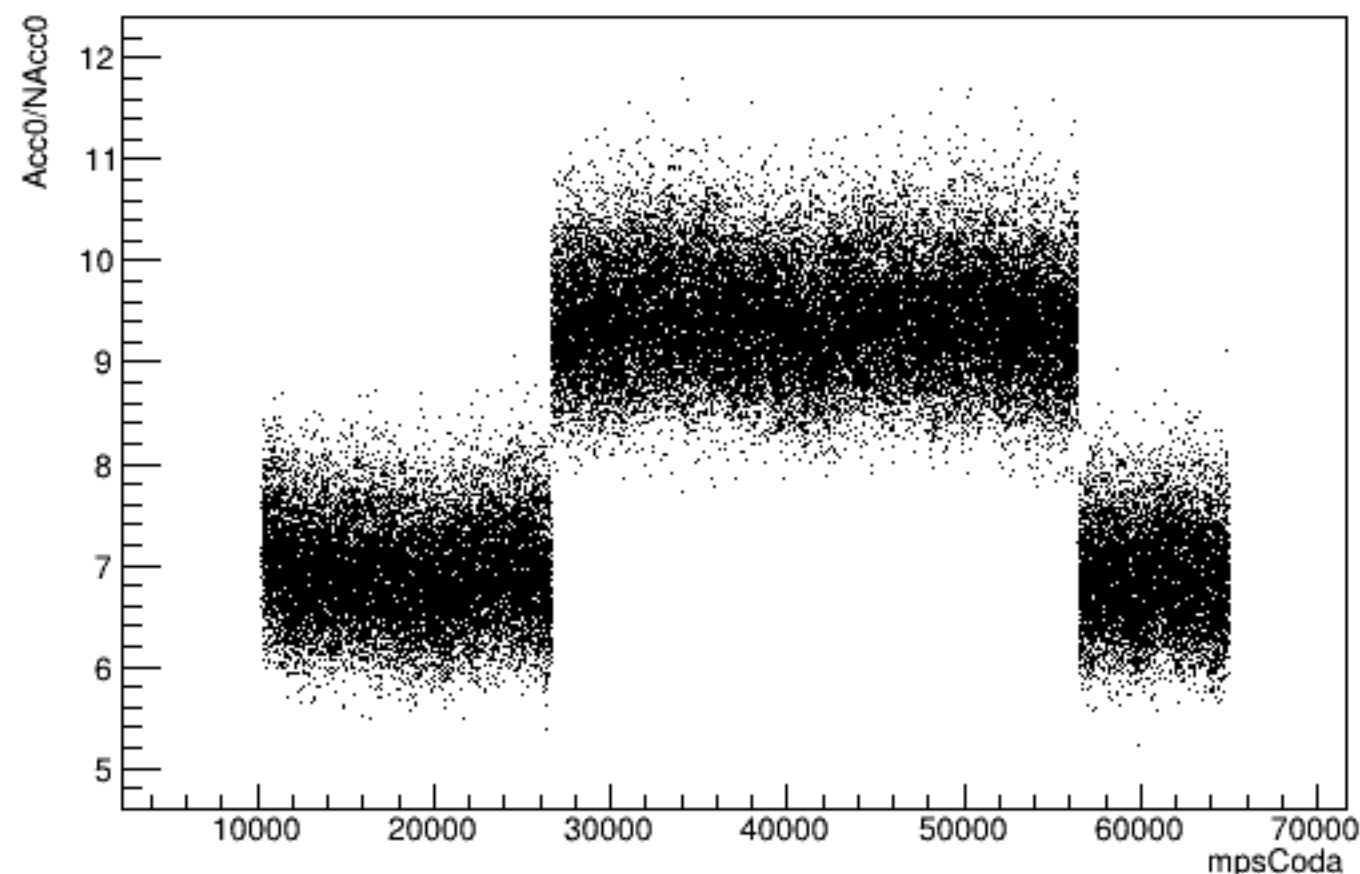
Mean: 0.0010 +/- 0.0019

Std Dev: 0.0614 +/- 0.0014

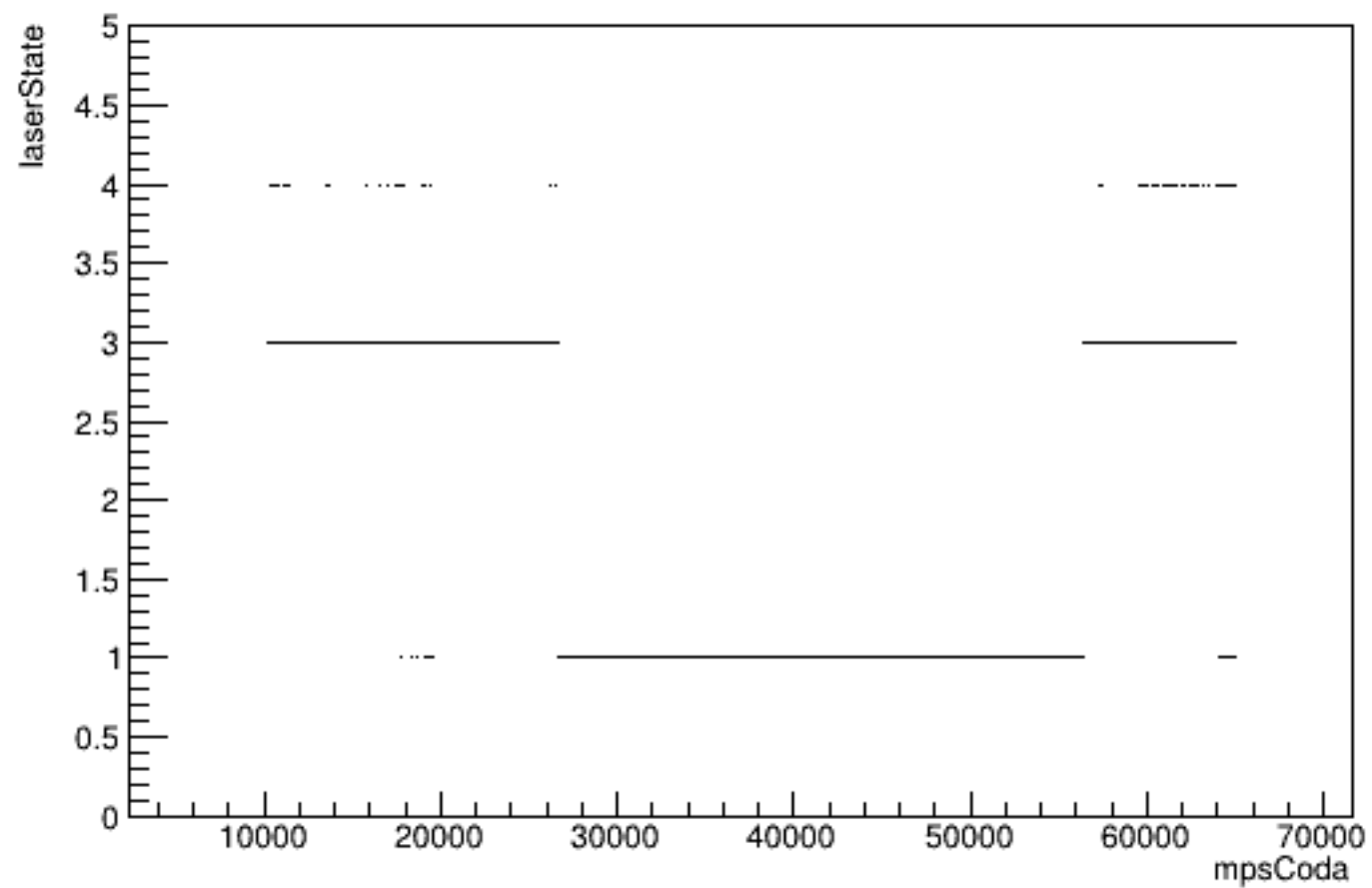
Run 4413 quartetwise, Asyms



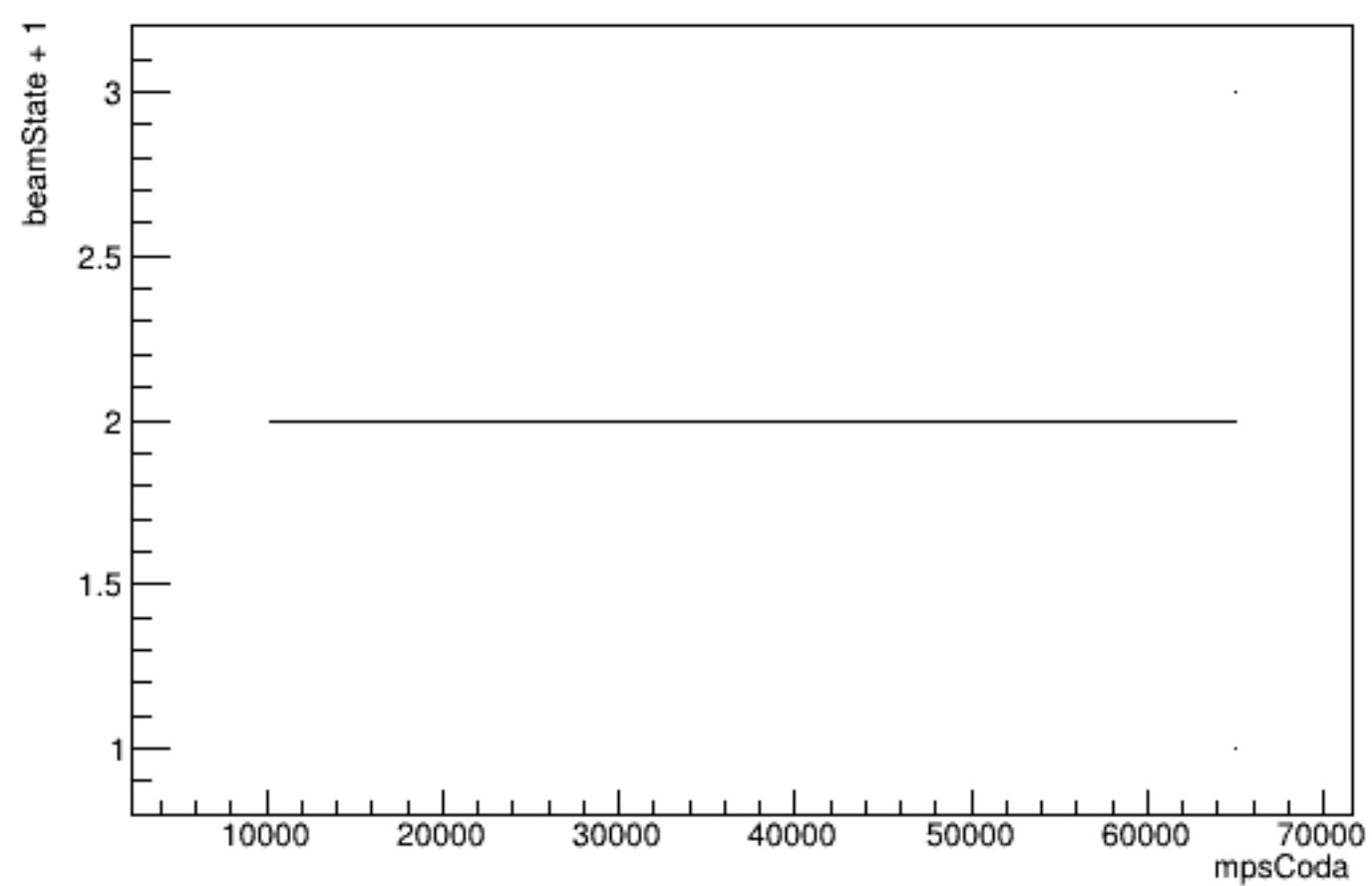
Acc0/NAcc0:mpsCoda {mpsCoda>=10281 && mpsCoda<=65064 && beamState==1}



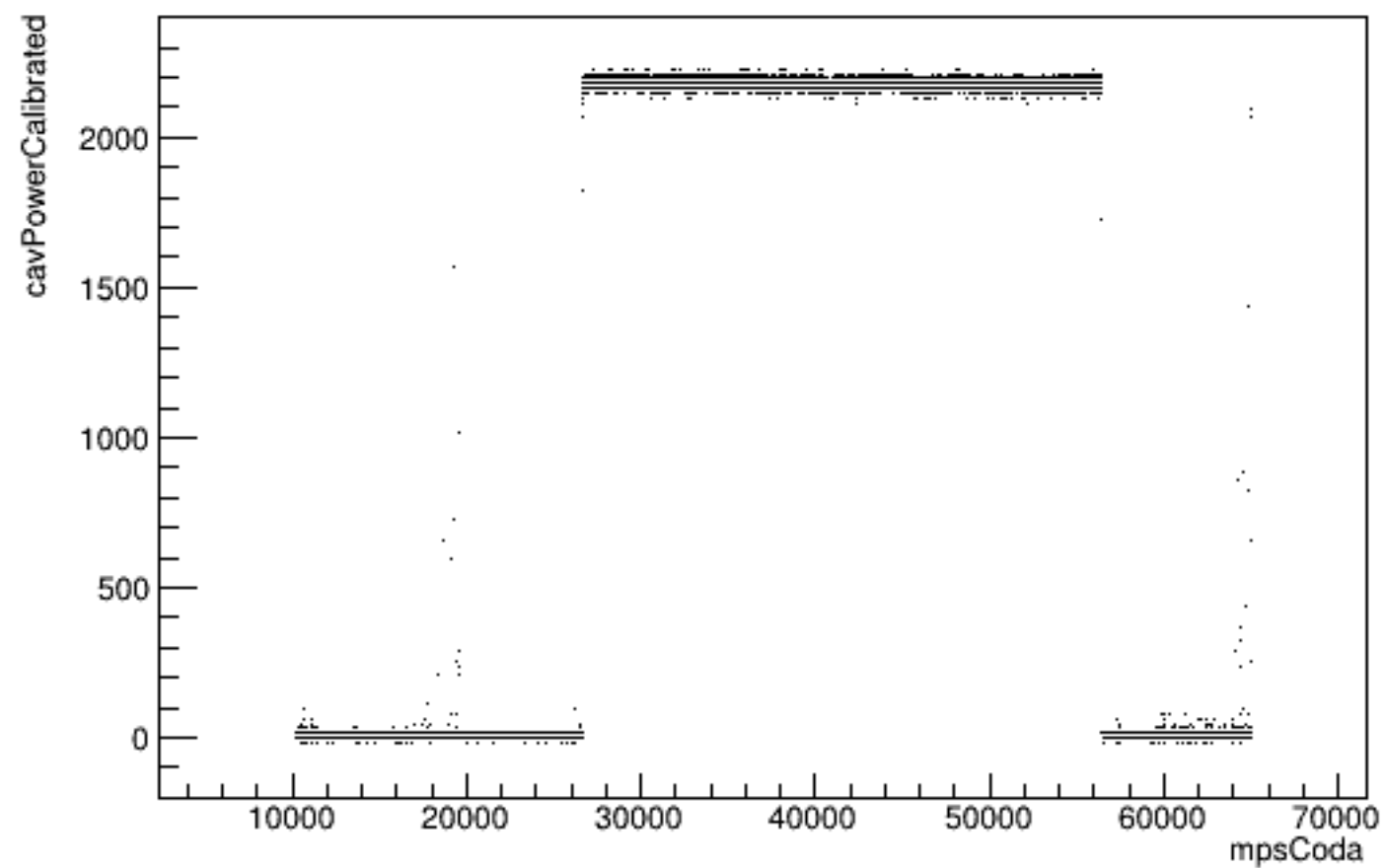
laserState:mpsCoda {mpsCoda&gt;=10281 &amp;&amp; mpsCoda&lt;=65064}



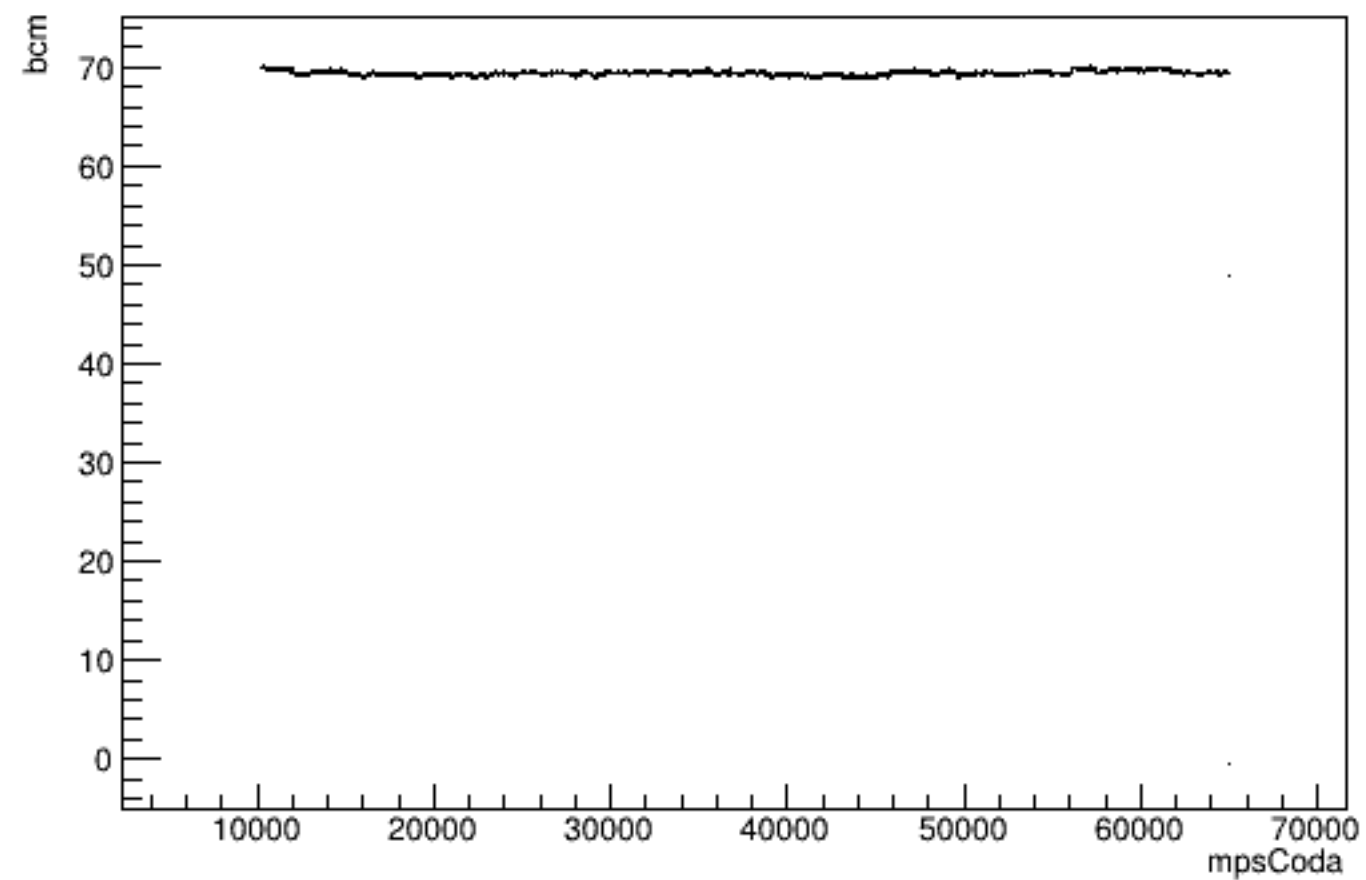
beamState + 1:mpsCoda {mpsCoda&gt;=10281 &amp;&amp; mpsCoda&lt;=65064}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=10281 &amp;&amp; mpsCoda&lt;=65064}



bcm:mpsCoda {mpsCoda&gt;=10281 &amp;&amp; mpsCoda&lt;=65064}



## Cycle 2, Diffs

Entries: 1018

Mean: 0.0048 +/- 0.0097

Std Dev: 0.3097 +/- 0.0069

Entries: 2641

Mean: 0.0749 +/- 0.0067

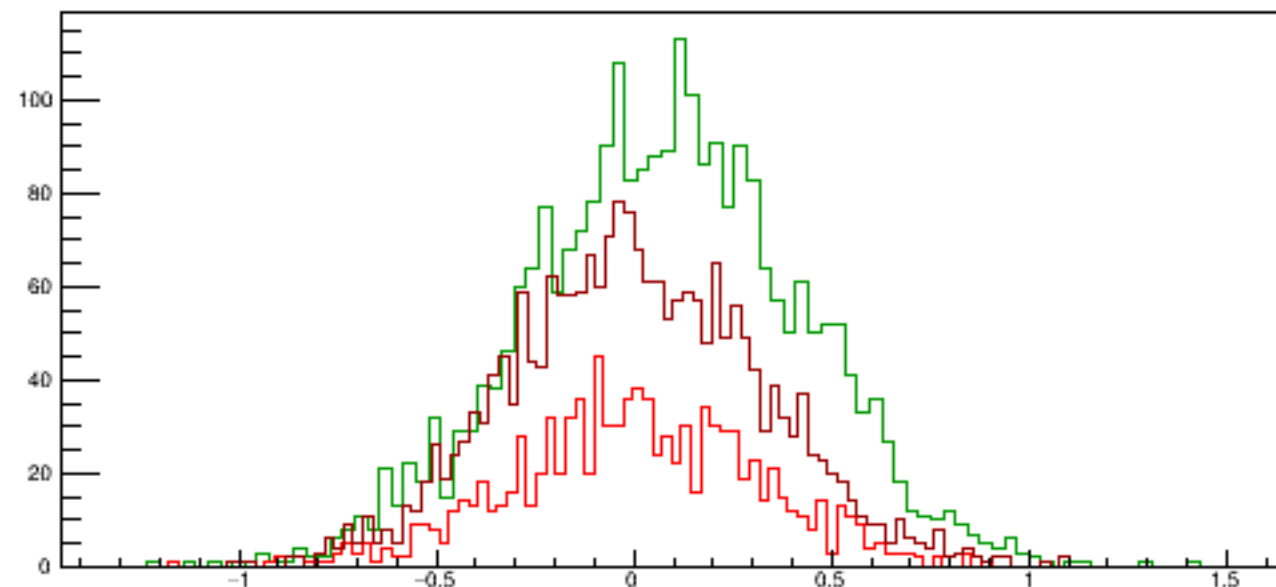
Std Dev: 0.3460 +/- 0.0048

Entries: 2197

Mean: 0.0025 +/- 0.0068

Std Dev: 0.3194 +/- 0.0048

Run 4413 quartetwise, Diffs



## Cycle 2, Sums

Entries: 1018

Mean: 13.7682 +/- 0.0111

Std Dev: 0.3540 +/- 0.0078

Entries: 2641

Mean: 18.7640 +/- 0.0075

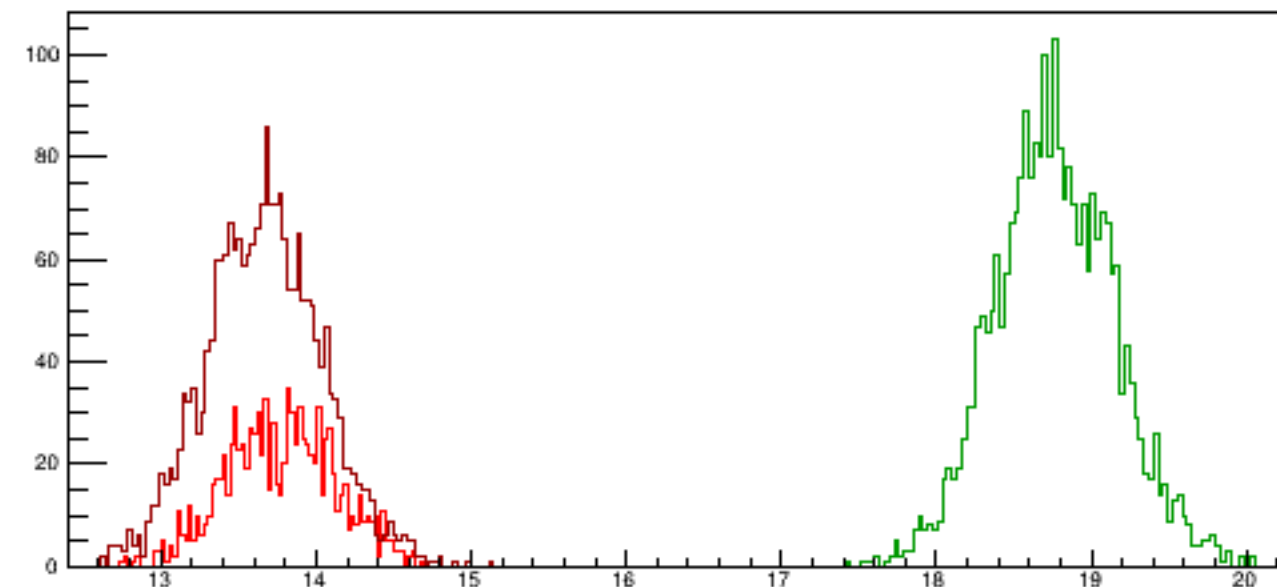
Std Dev: 0.3875 +/- 0.0053

Entries: 2197

Mean: 13.6663 +/- 0.0079

Std Dev: 0.3696 +/- 0.0056

Run 4413 quartetwise, Sums



## Cycle 2, Asyms

Entries: 1018

Mean: 0.0009 +/- 0.0019

Std Dev: 0.0614 +/- 0.0014

Entries: 2641

Mean: 0.0149 +/- 0.0013

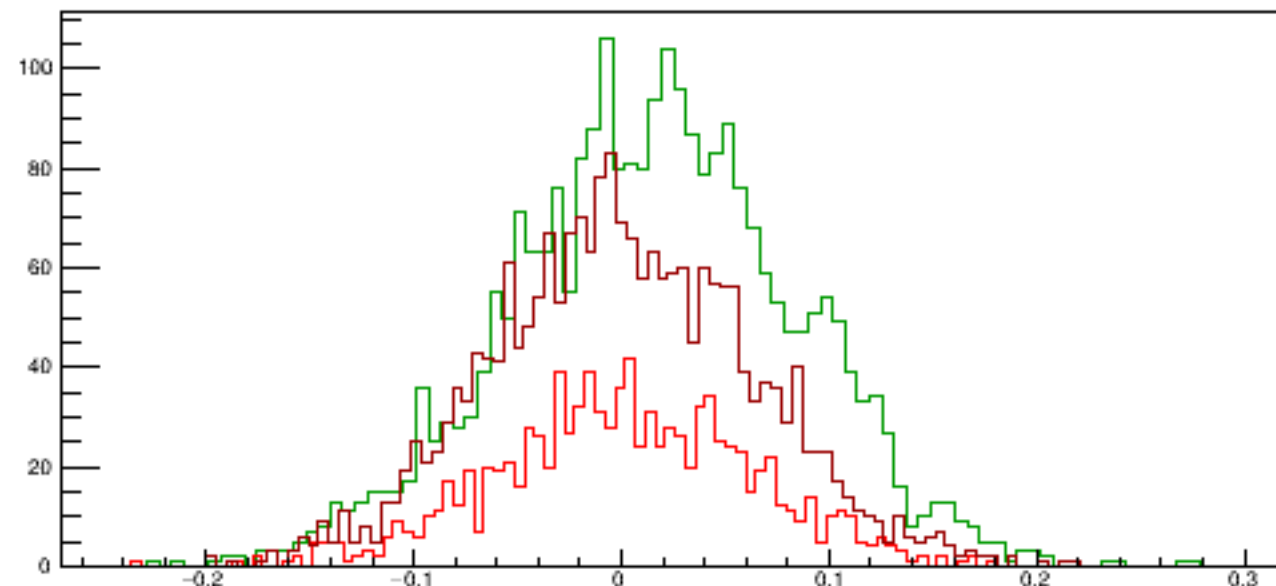
Std Dev: 0.0689 +/- 0.0009

Entries: 2197

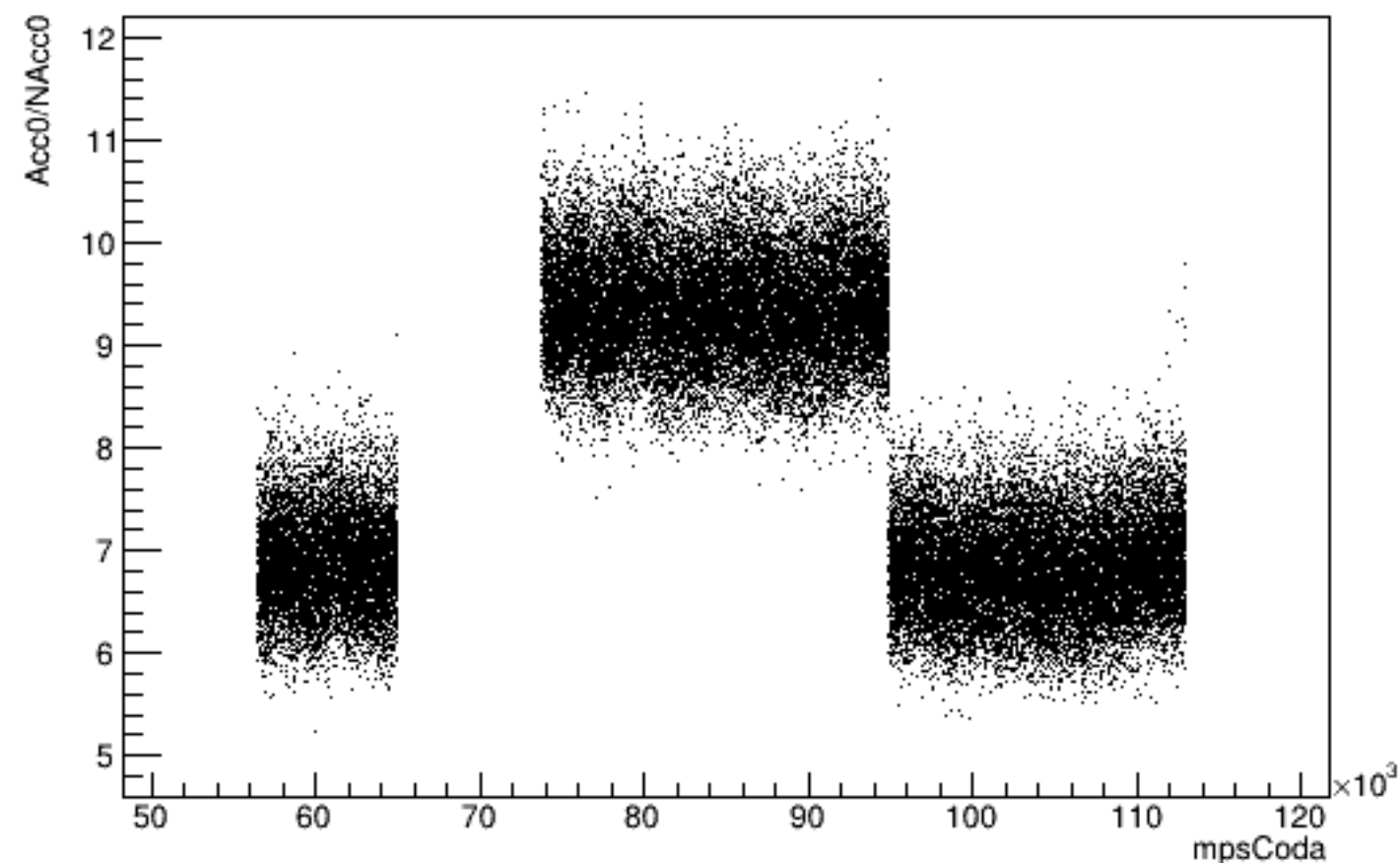
Mean: 0.0005 +/- 0.0014

Std Dev: 0.0633 +/- 0.0010

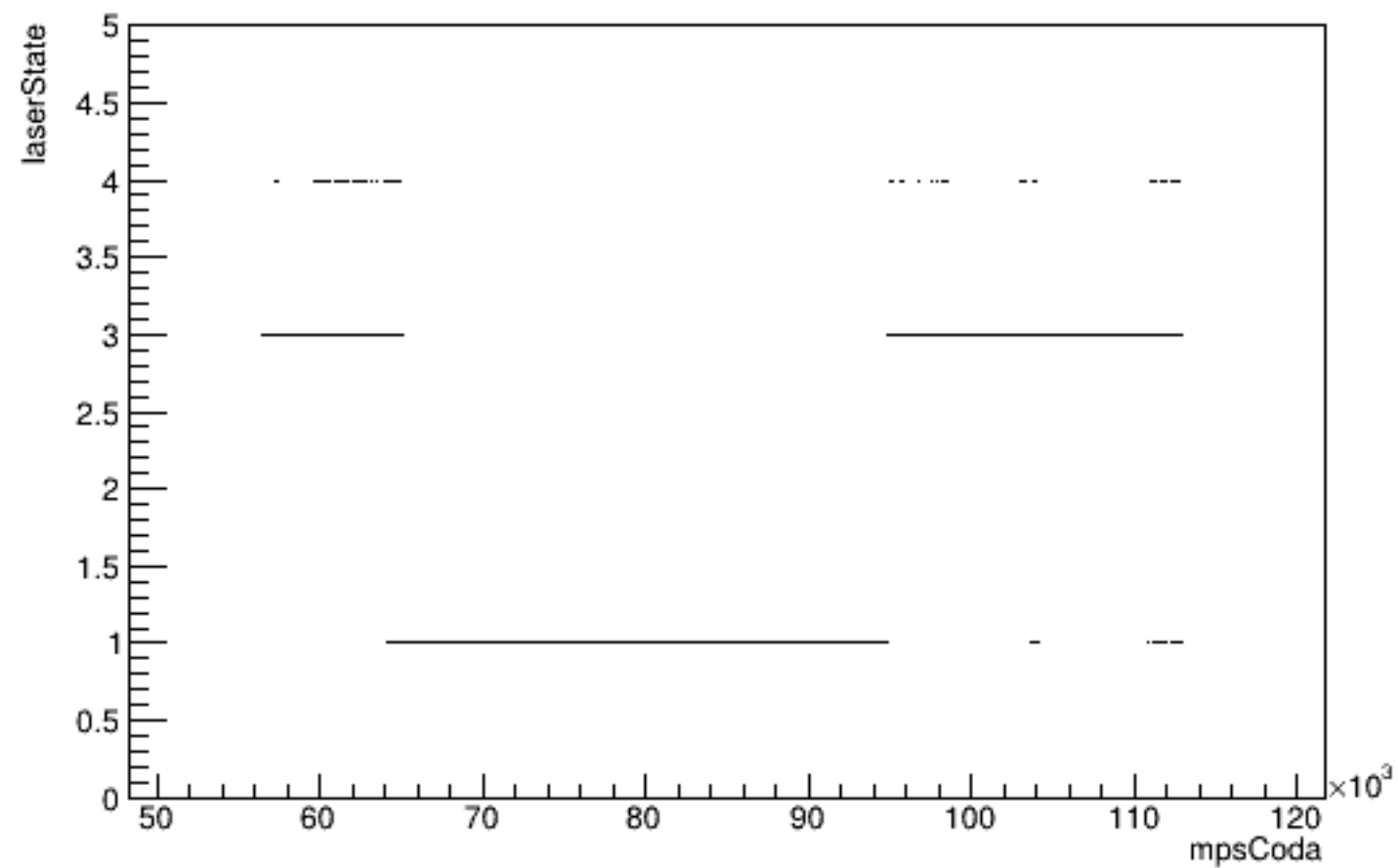
Run 4413 quartetwise, Asyms



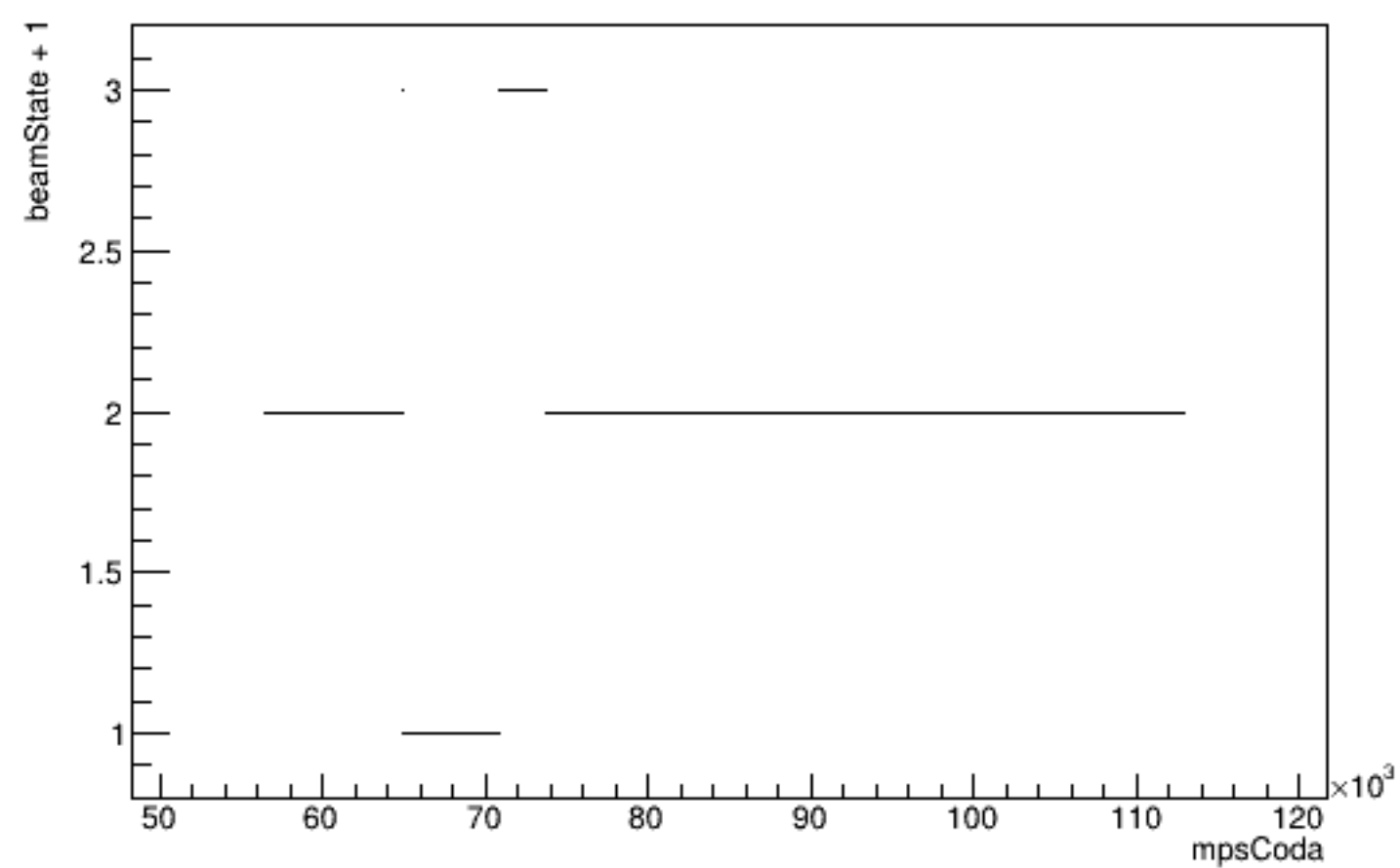
Acc0/NAcc0:mpsCoda {mpsCoda>=56465 && mpsCoda<=112992 && beamState==1}



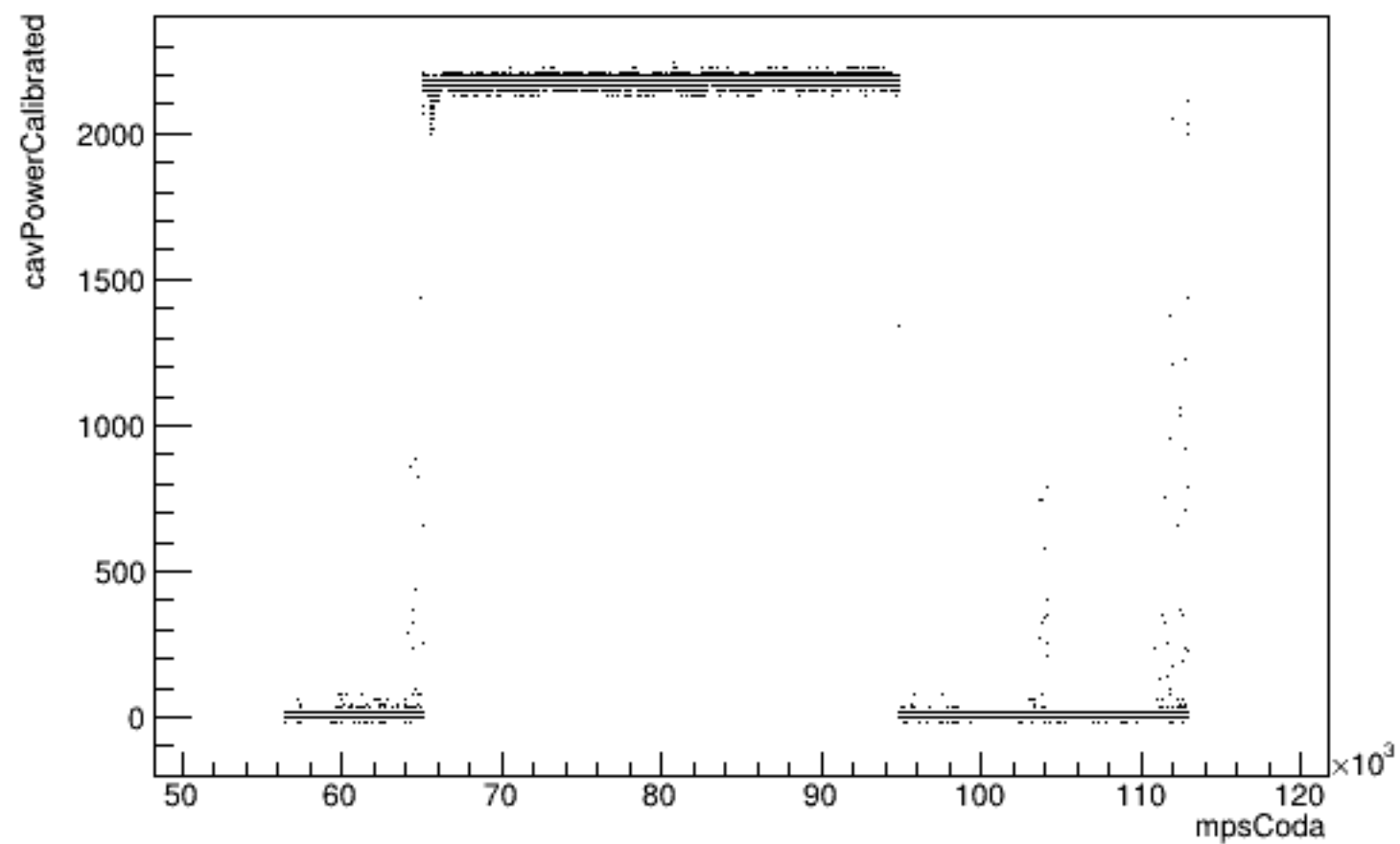
laserState:mpsCoda {mpsCoda&gt;=56465 &amp;&amp; mpsCoda&lt;=112992}



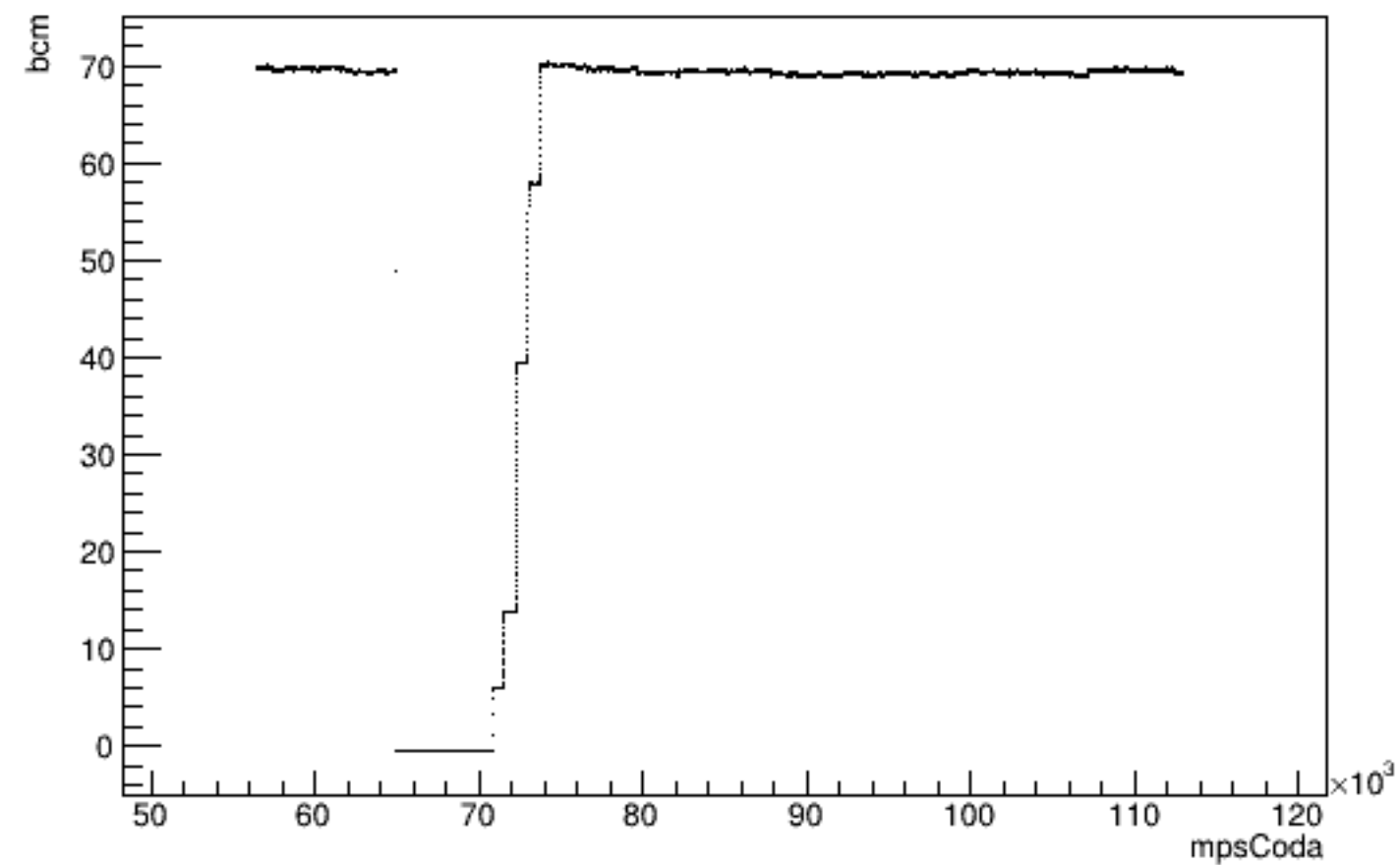
beamState + 1:mpsCoda {mpsCoda&gt;=56465 &amp;&amp; mpsCoda&lt;=112992}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=56465 &amp;&amp; mpsCoda&lt;=112992}



bcm:mpsCoda {mpsCoda&gt;=56465 &amp;&amp; mpsCoda&lt;=112992}



## Cycle 3, Diffs

Entries: 2197

Mean: 0.0025 +/- 0.0068

Std Dev: 0.3194 +/- 0.0048

Entries: 3753

Mean: 0.0772 +/- 0.0057

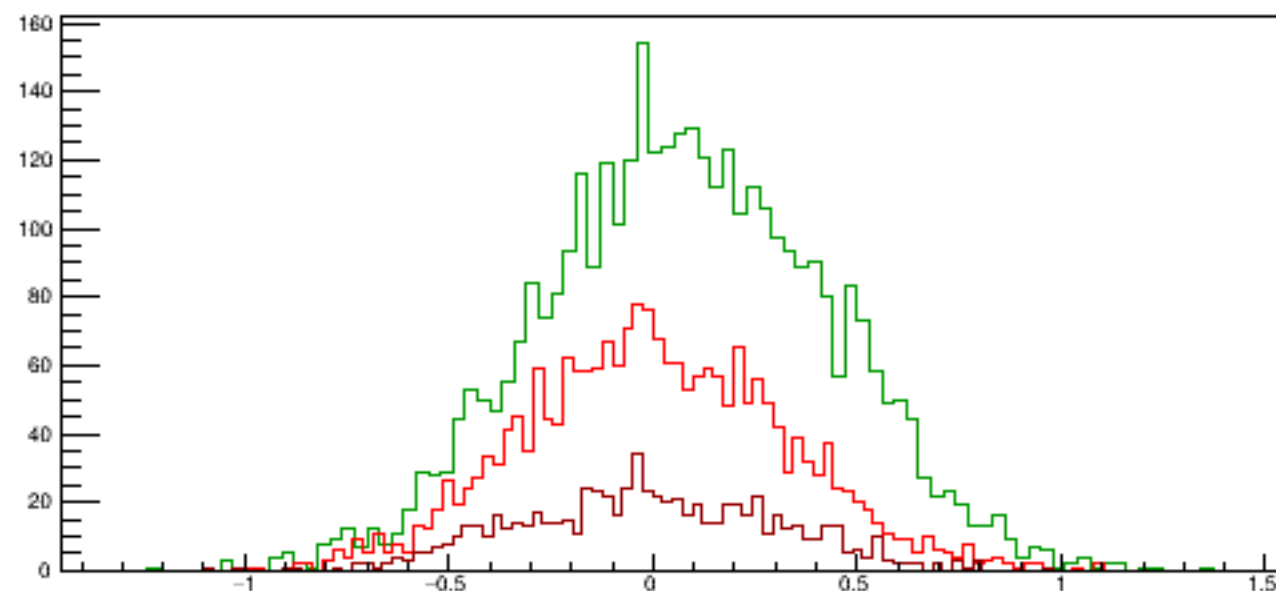
Std Dev: 0.3505 +/- 0.0040

Entries: 724

Mean: -0.0138 +/- 0.0118

Std Dev: 0.3171 +/- 0.0083

Run 4413 quartetwise, Diffs



## Cycle 3, Sums

Entries: 2197

Mean: 13.6663 +/- 0.0079

Std Dev: 0.3696 +/- 0.0056

Entries: 3753

Mean: 18.9902 +/- 0.0063

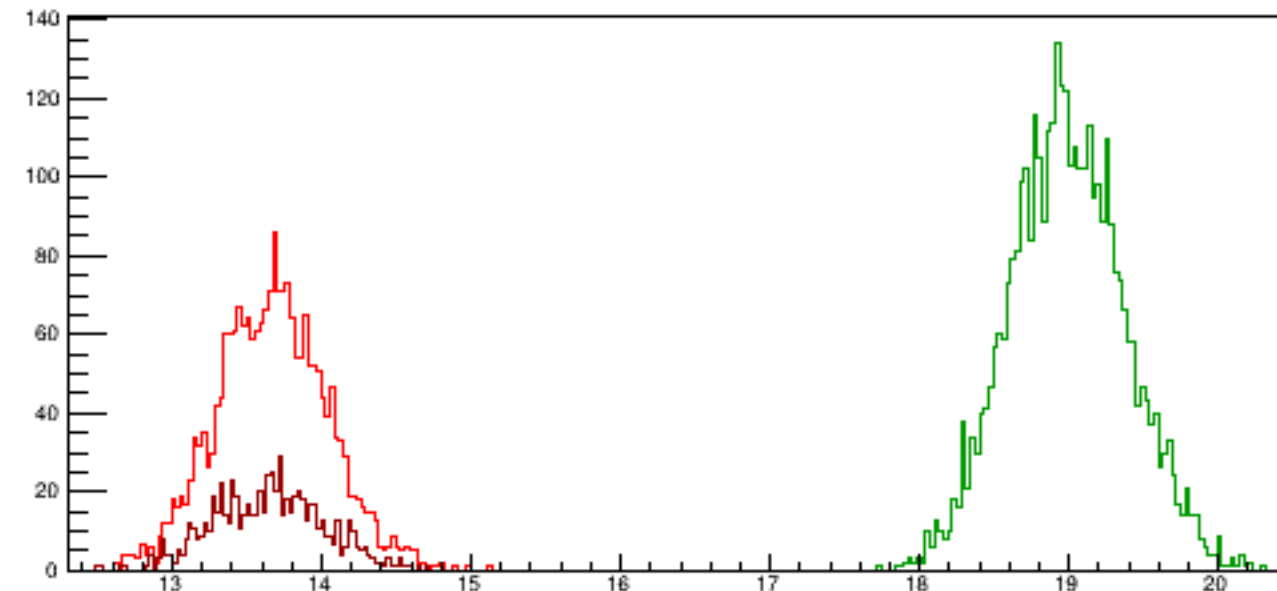
Std Dev: 0.3869 +/- 0.0045

Entries: 724

Mean: 13.6434 +/- 0.0137

Std Dev: 0.3682 +/- 0.0097

Run 4413 quartetwise, Sums



## Cycle 3, Asyms

Entries: 2197

Mean: 0.0005 +/- 0.0013

Std Dev: 0.0599 +/- 0.0009

Entries: 3753

Mean: 0.0144 +/- 0.0011

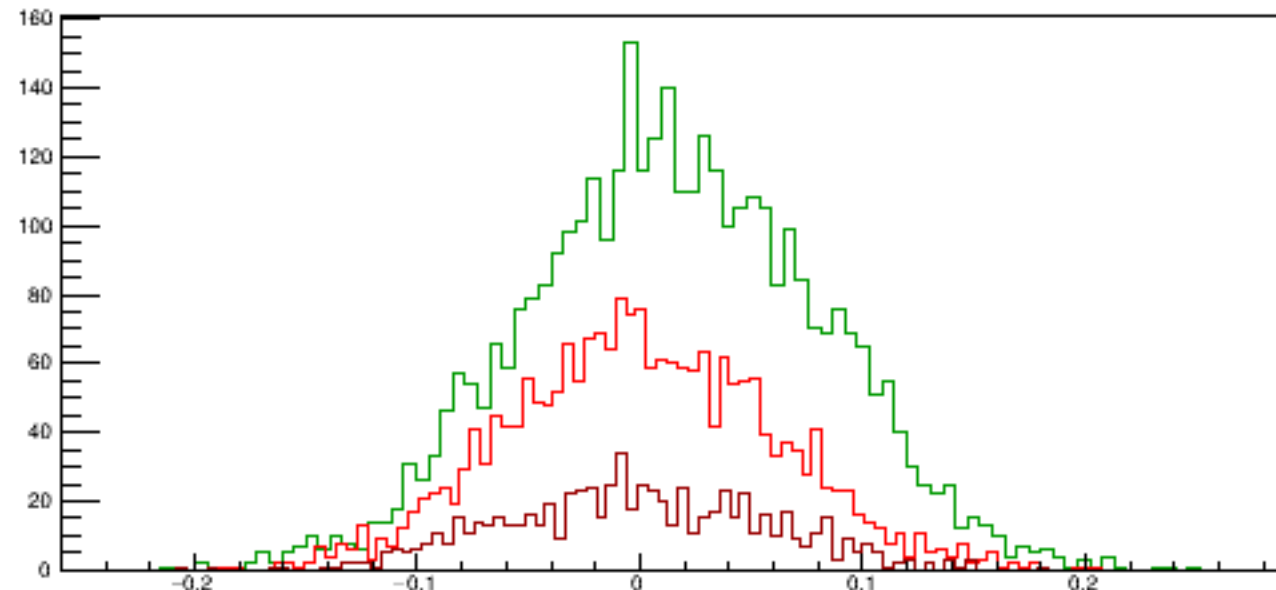
Std Dev: 0.0659 +/- 0.0008

Entries: 724

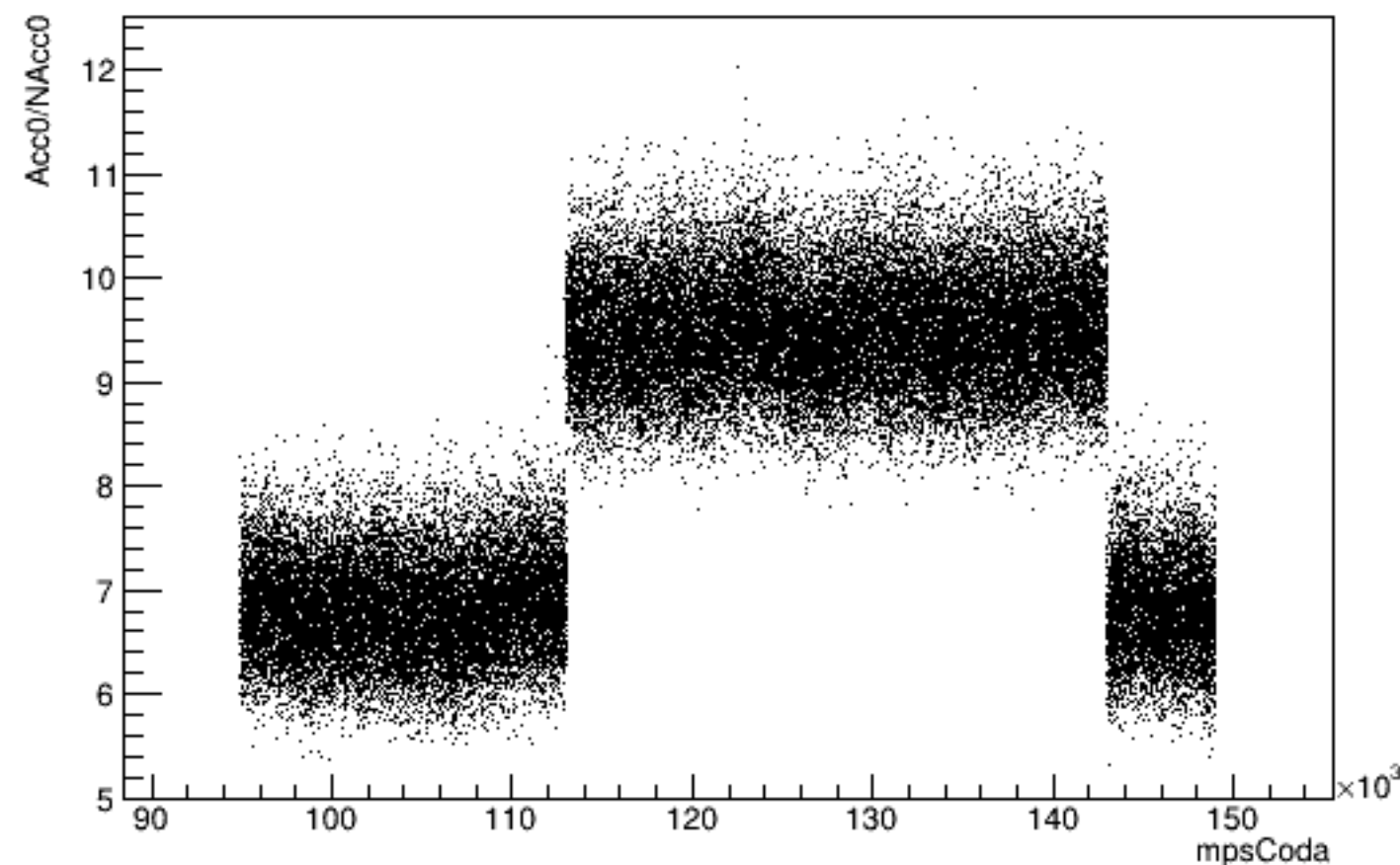
Mean: -0.0026 +/- 0.0022

Std Dev: 0.0594 +/- 0.0016

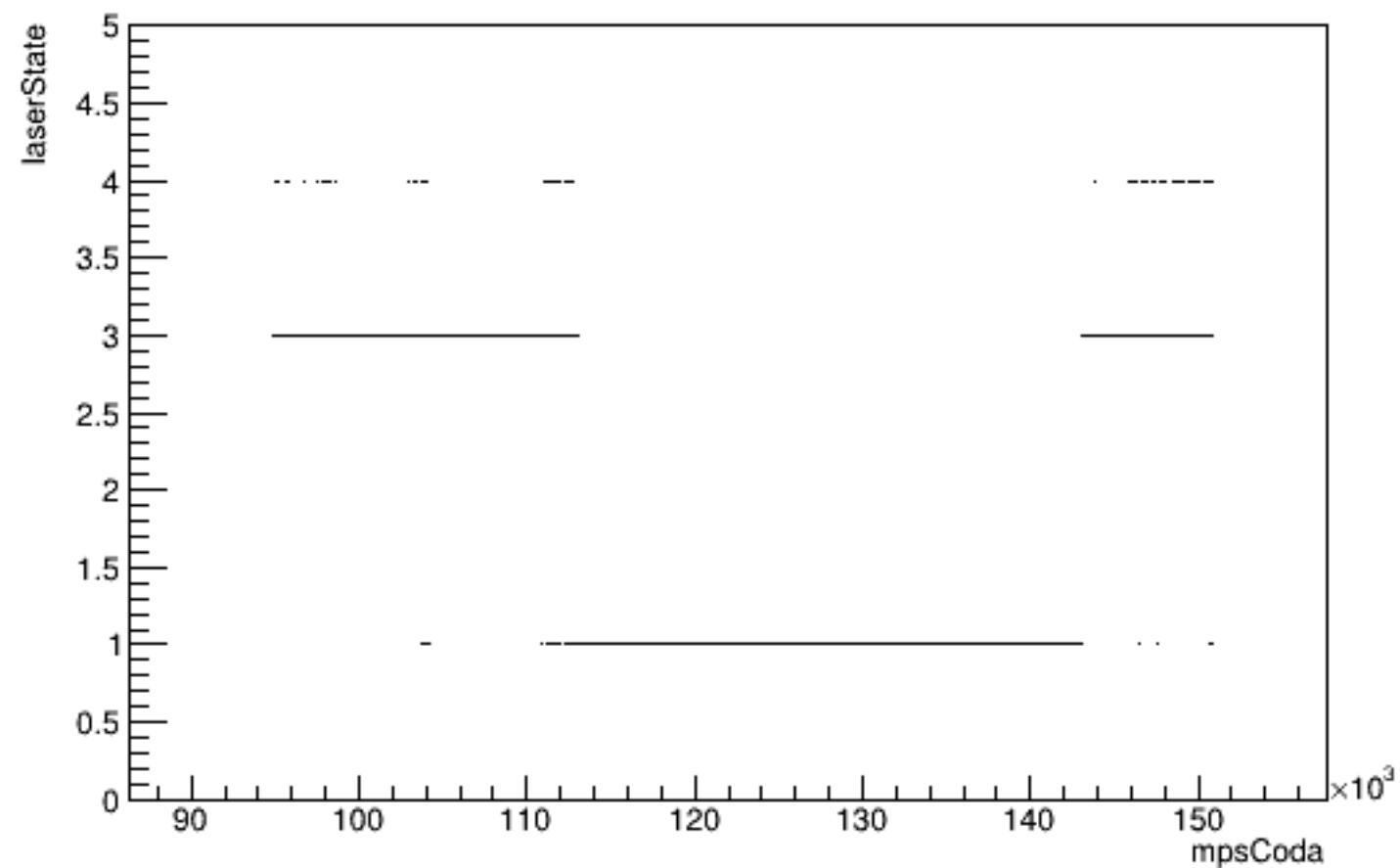
Run 4413 quartetwise, Asyms



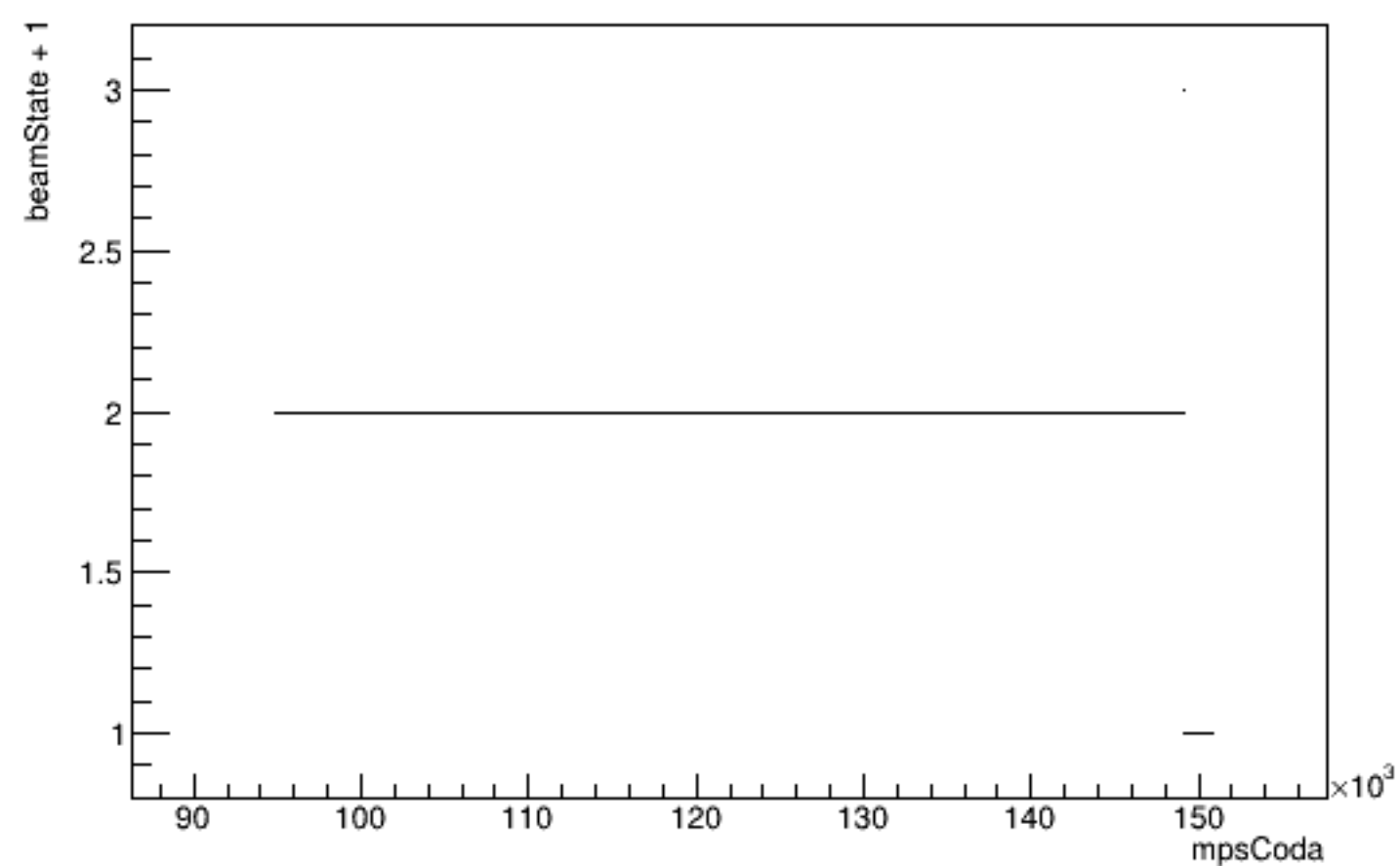
Acc0/NAcc0:mpsCoda {mpsCoda>=94897 && mpsCoda<=150848 && beamState==1}



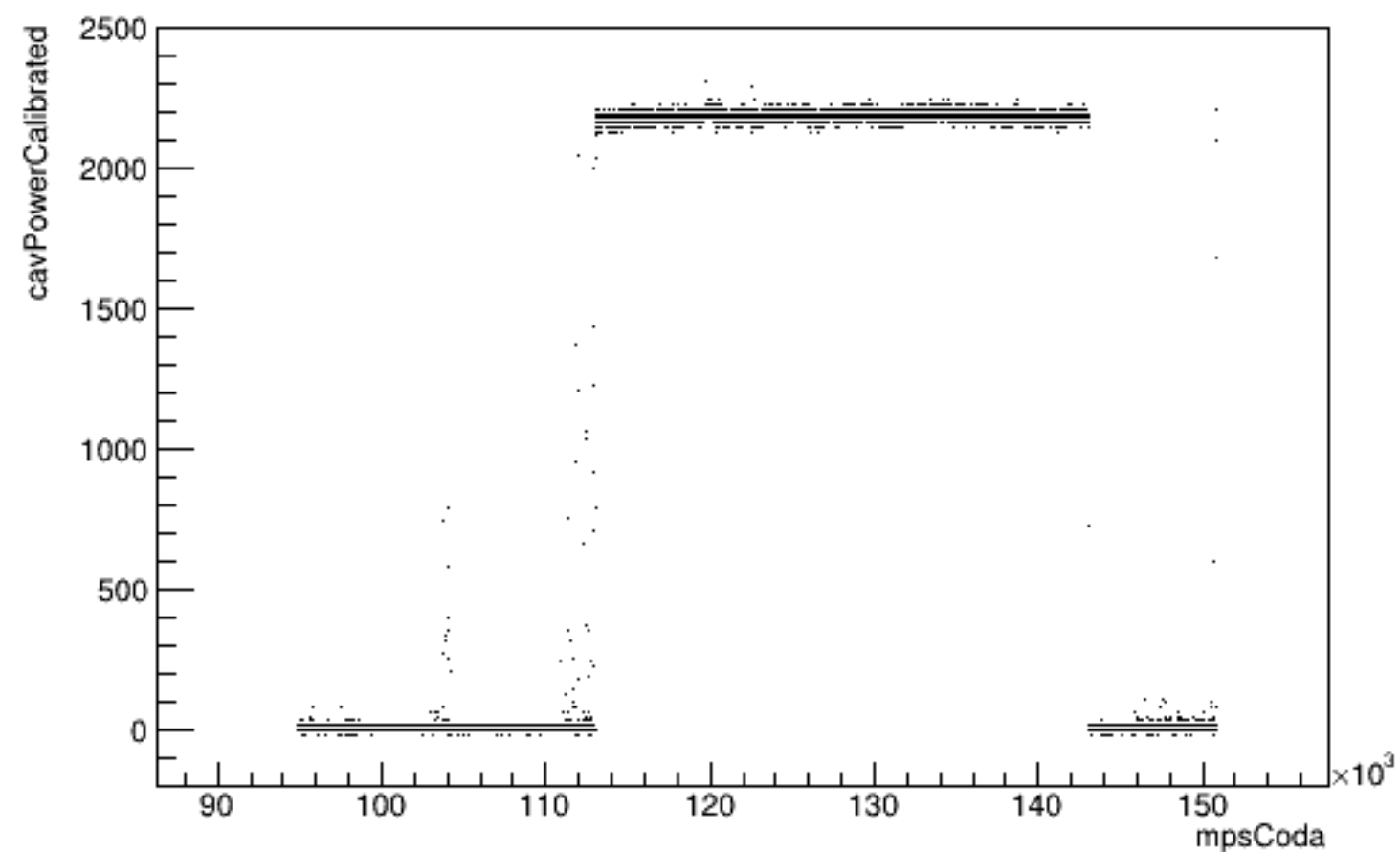
laserState:mpsCoda {mpsCoda&gt;=94897 &amp;&amp; mpsCoda&lt;=150848}



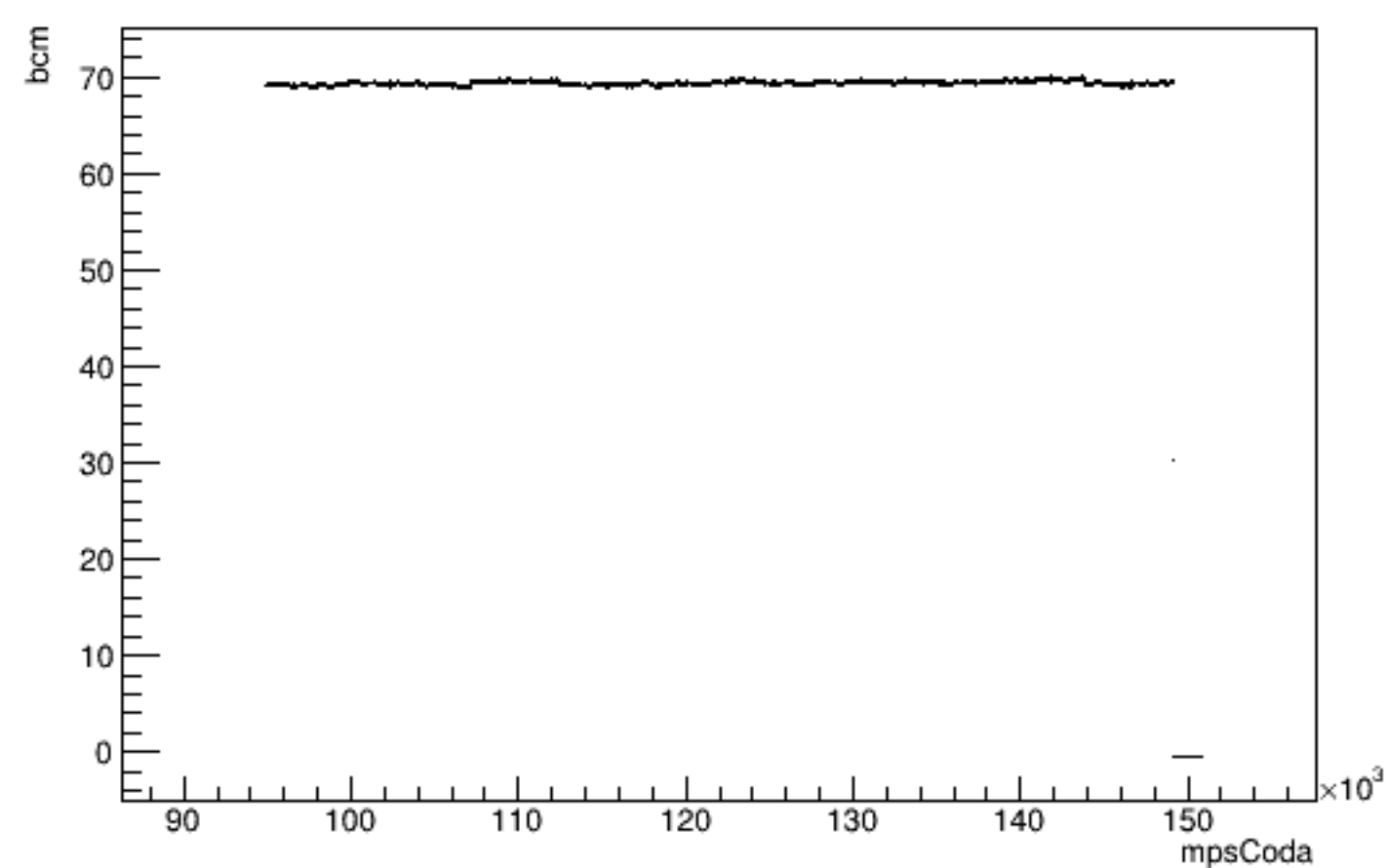
beamState + 1:mpsCoda {mpsCoda&gt;=94897 &amp;&amp; mpsCoda&lt;=150848}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=94897 &amp;&amp; mpsCoda&lt;=150848}



bcm:mpsCoda {mpsCoda&gt;=94897 &amp;&amp; mpsCoda&lt;=150848}

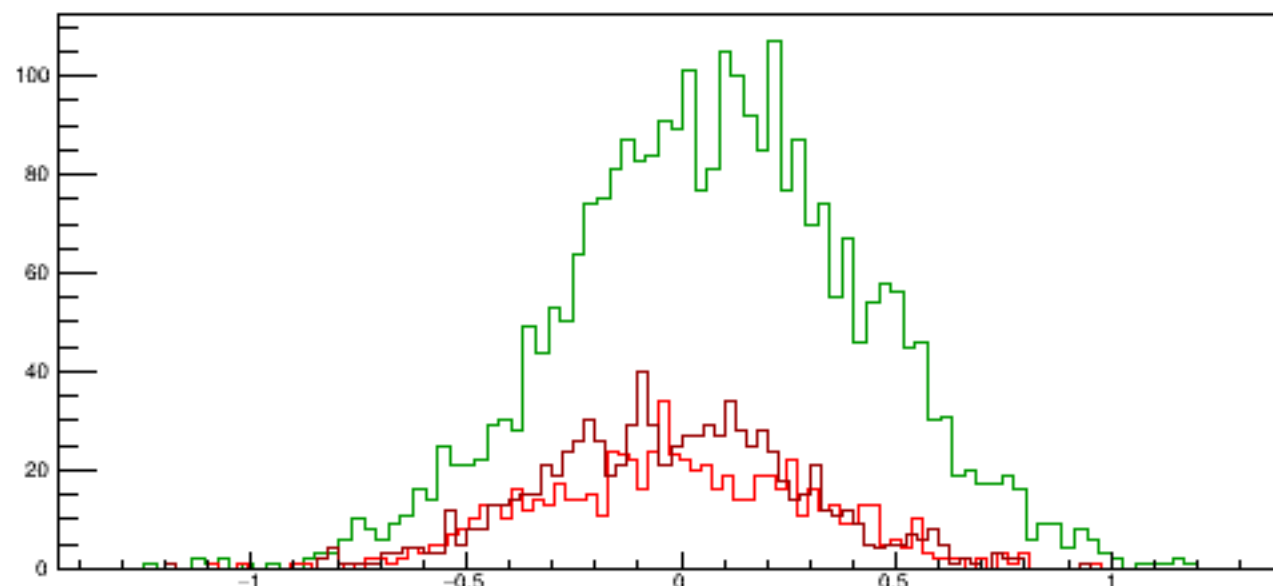




## Cycle 4, Diffs

| Entries: 724               | Entries: 2901              | Entries: 882               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0138 +/- 0.0118   | Mean: 0.0823 +/- 0.0065    | Mean: -0.0236 +/- 0.0101   |
| Std Dev: 0.3171 +/- 0.0083 | Std Dev: 0.3494 +/- 0.0046 | Std Dev: 0.3008 +/- 0.0072 |

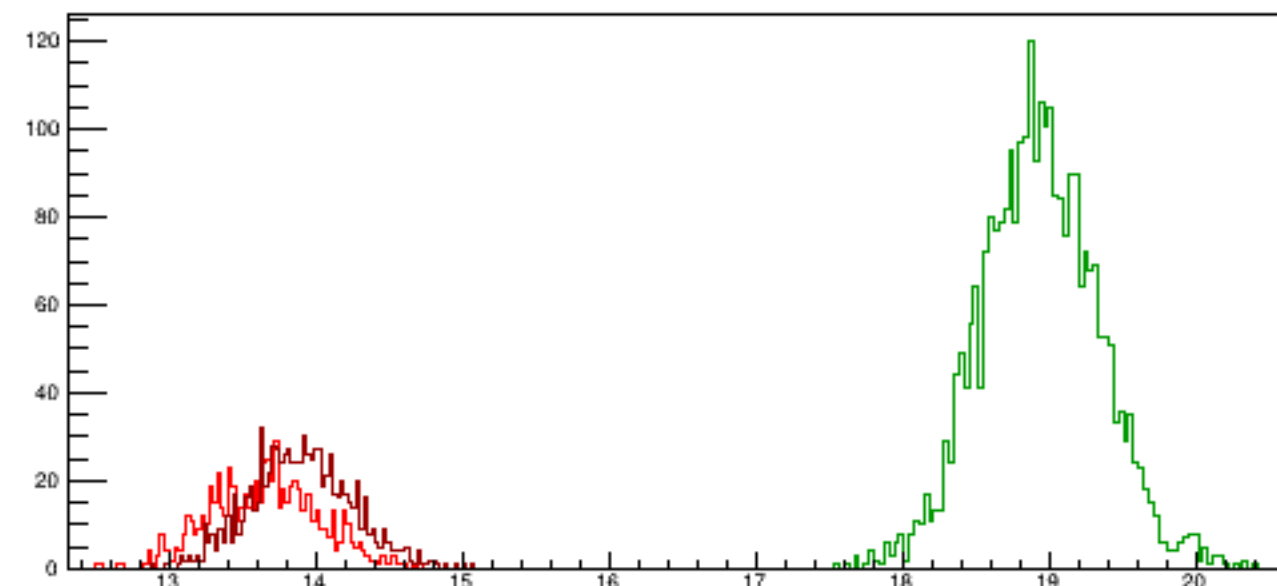
Run 4413 quartetwise, Diffs



## Cycle 4, Sums

| Entries: 724               | Entries: 2901              | Entries: 882               |
|----------------------------|----------------------------|----------------------------|
| Mean: 13.6434 +/- 0.0137   | Mean: 18.9265 +/- 0.0074   | Mean: 13.8891 +/- 0.0117   |
| Std Dev: 0.3682 +/- 0.0097 | Std Dev: 0.4011 +/- 0.0053 | Std Dev: 0.3472 +/- 0.0083 |

Run 4413 quartetwise, Sums

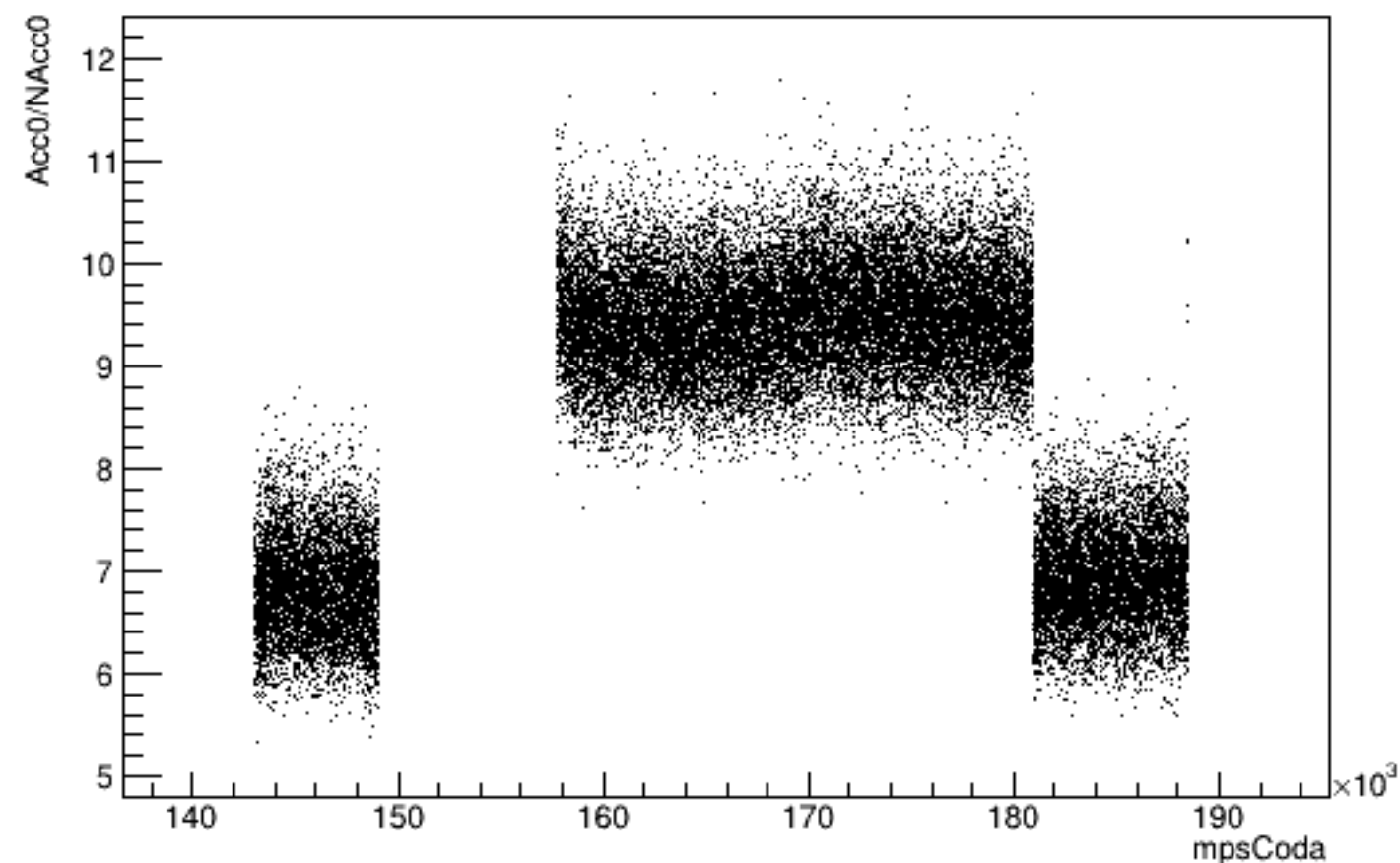
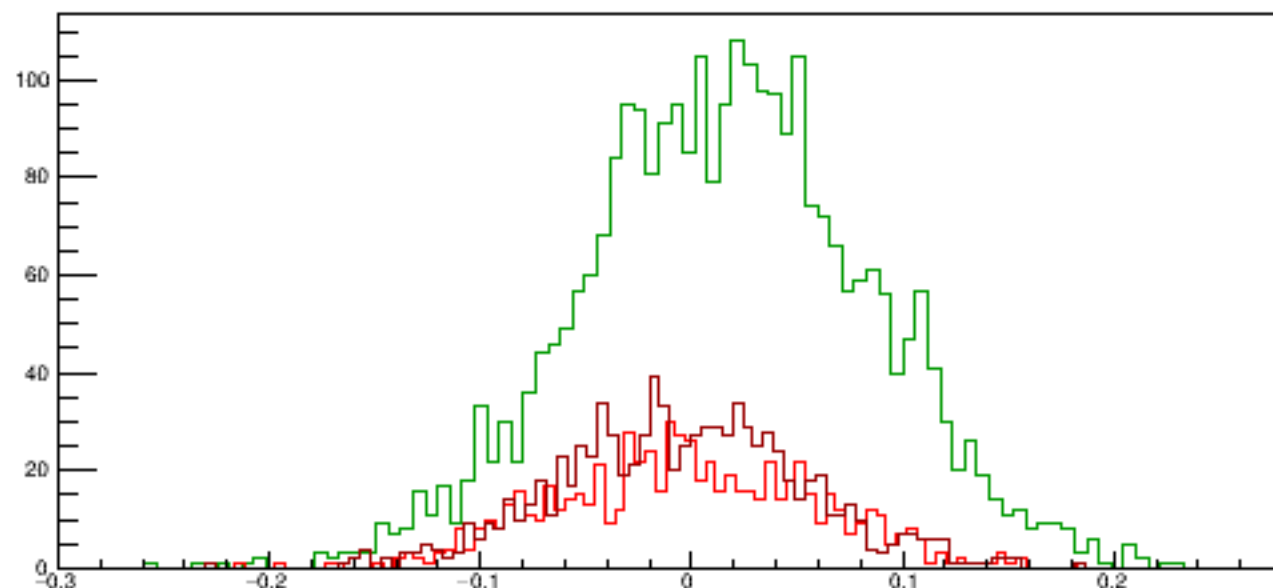


Acc0/NAcc0:mpsCoda (mpsCoda>=143025 && mpsCoda<=188472 && beamState==1)

## Cycle 4, Asyms

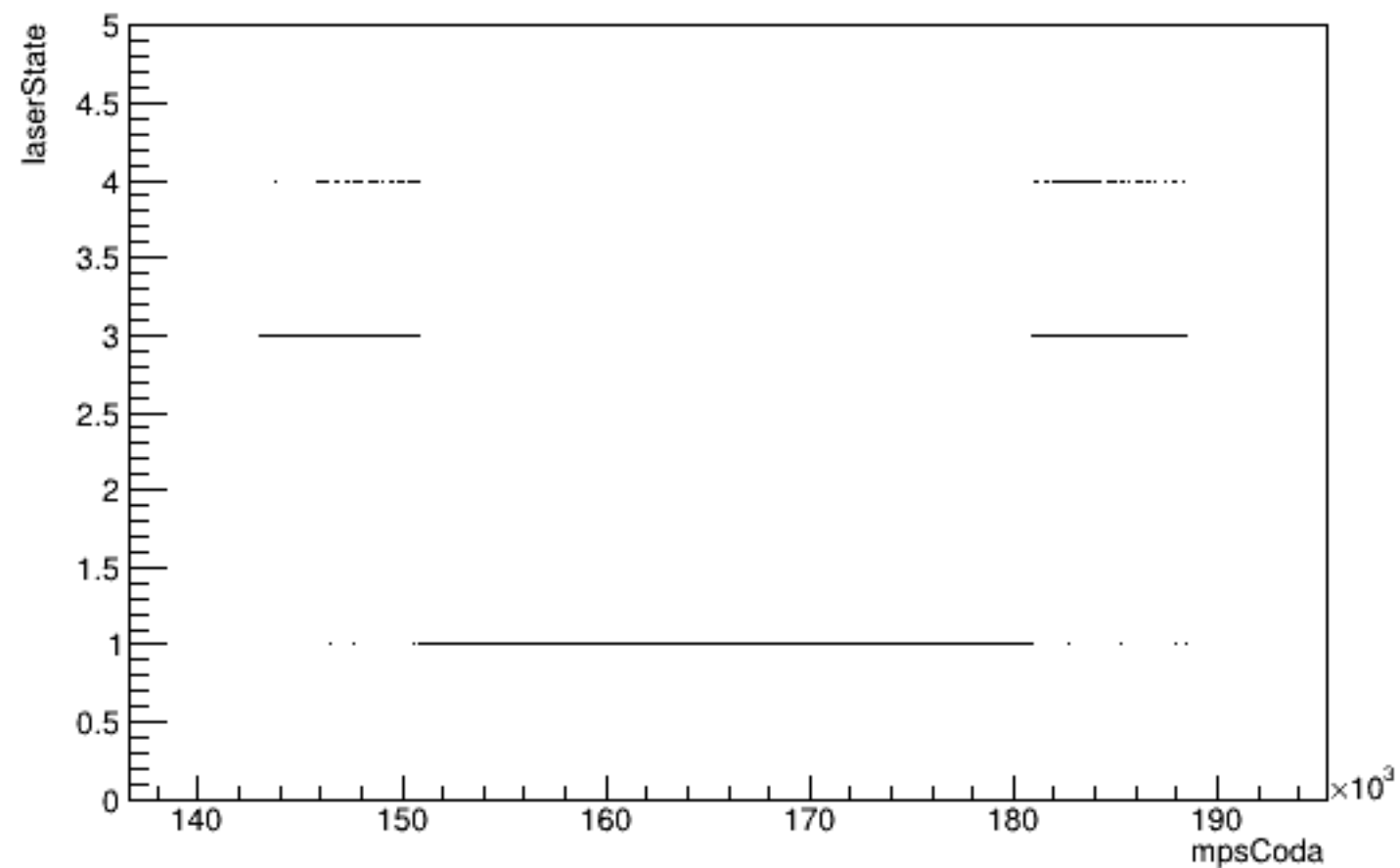
| Entries: 724               | Entries: 2901              | Entries: 882               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0027 +/- 0.0023   | Mean: 0.0160 +/- 0.0013    | Mean: -0.0046 +/- 0.0020   |
| Std Dev: 0.0614 +/- 0.0016 | Std Dev: 0.0679 +/- 0.0009 | Std Dev: 0.0583 +/- 0.0014 |

Run 4413 quartetwise, Asyms

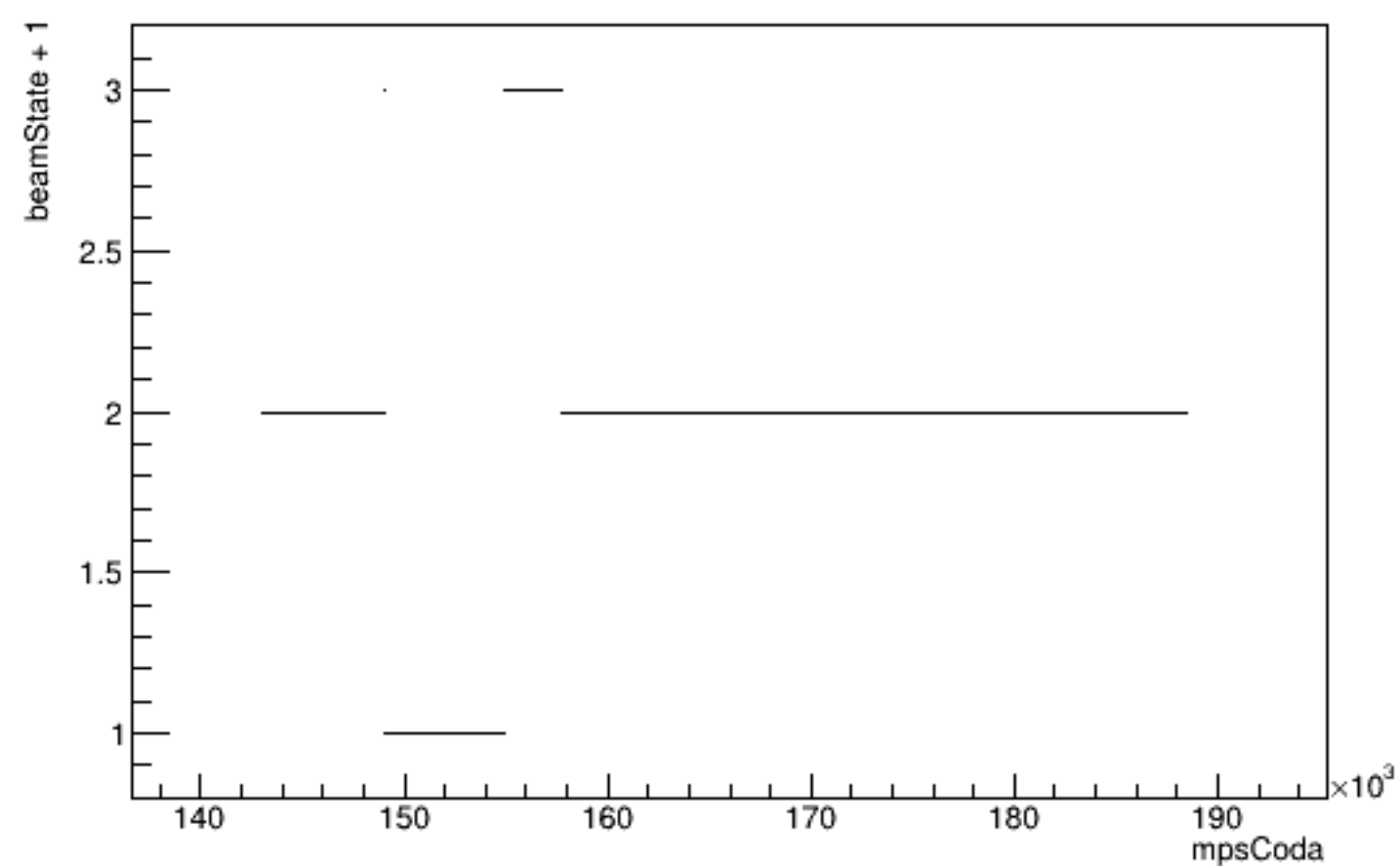




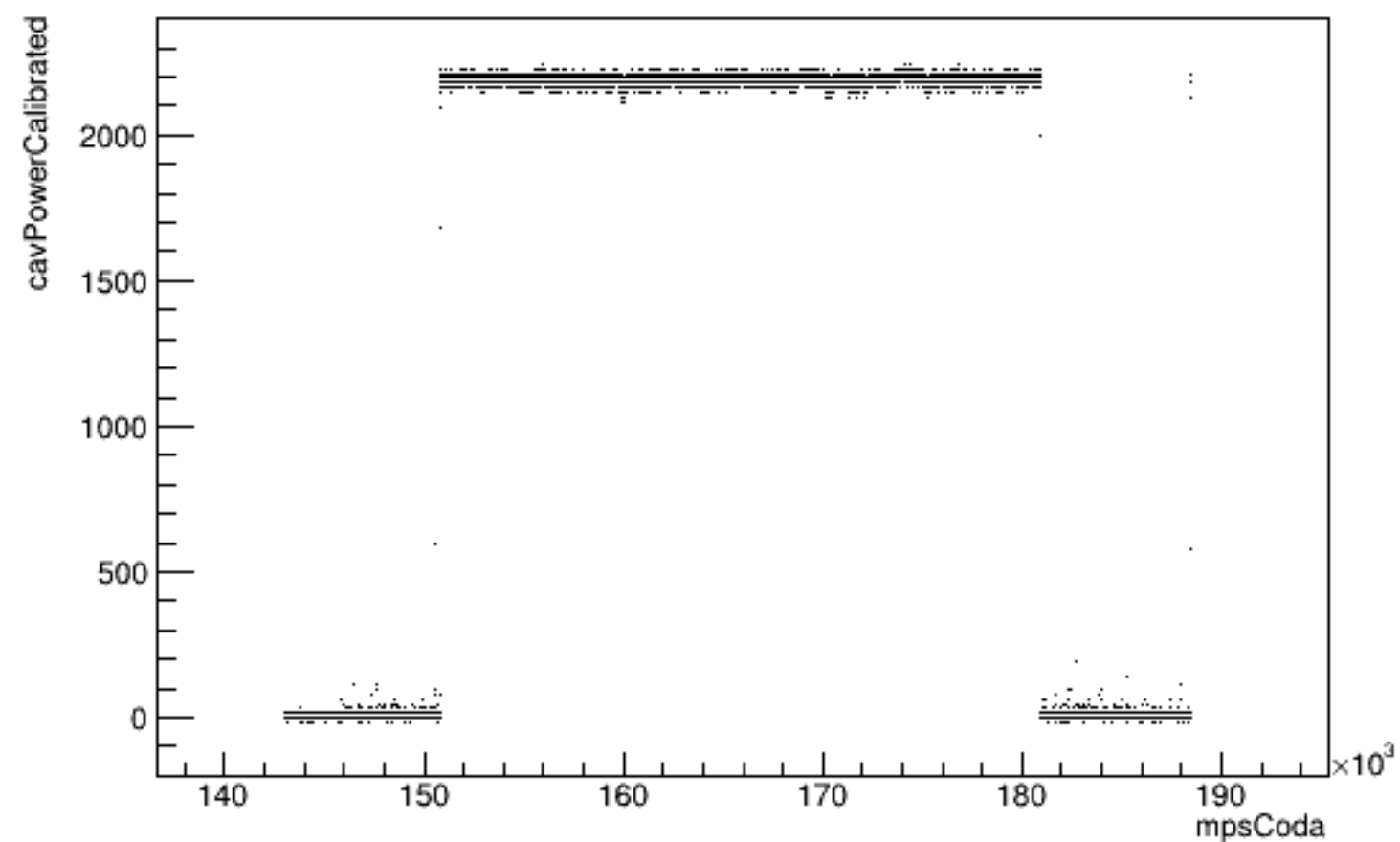
laserState:mpsCoda {mpsCoda&gt;=143025 &amp;&amp; mpsCoda&lt;=188472}



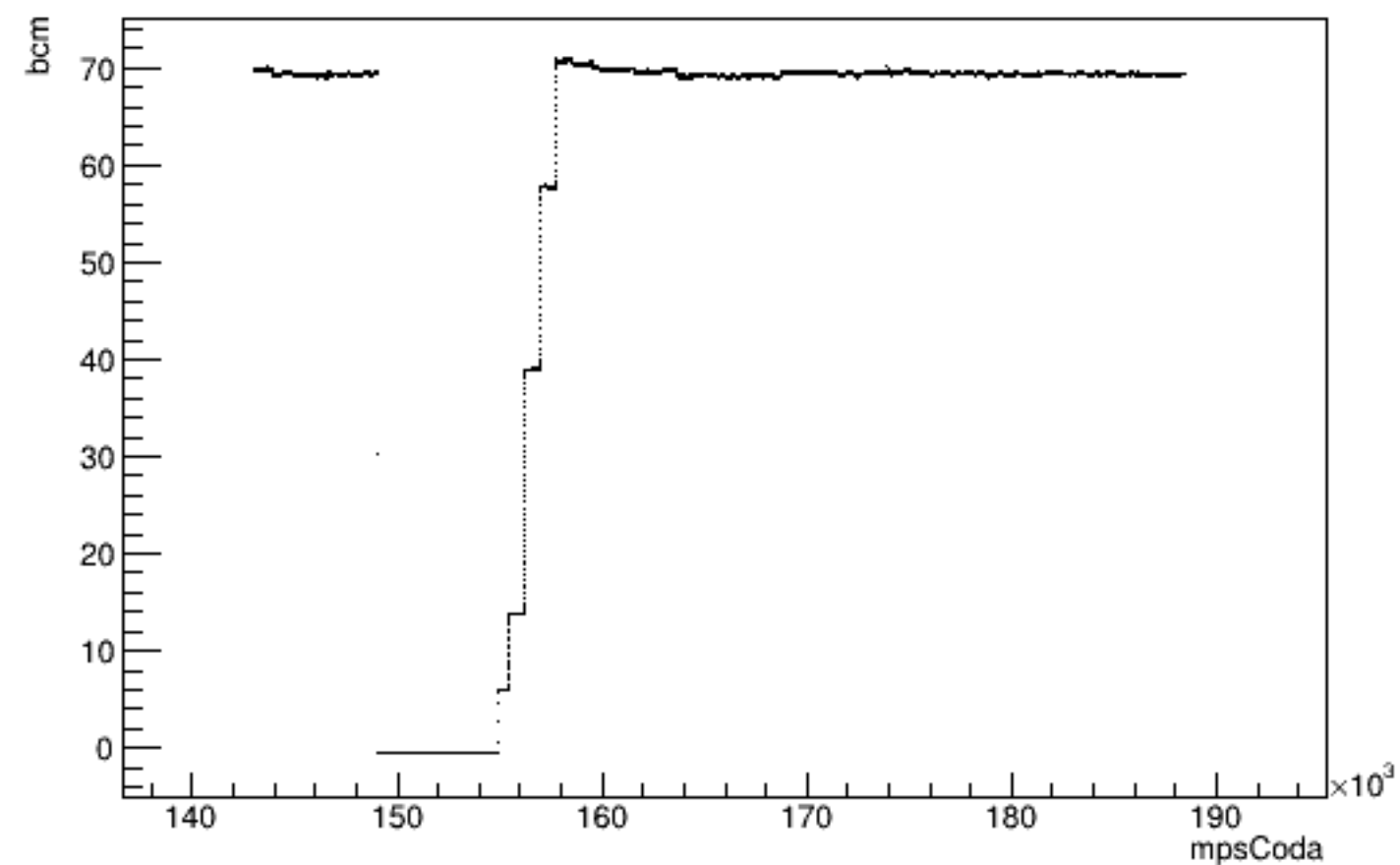
beamState + 1:mpsCoda {mpsCoda&gt;=143025 &amp;&amp; mpsCoda&lt;=188472}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=143025 &amp;&amp; mpsCoda&lt;=188472}



bcm:mpsCoda {mpsCoda&gt;=143025 &amp;&amp; mpsCoda&lt;=188472}

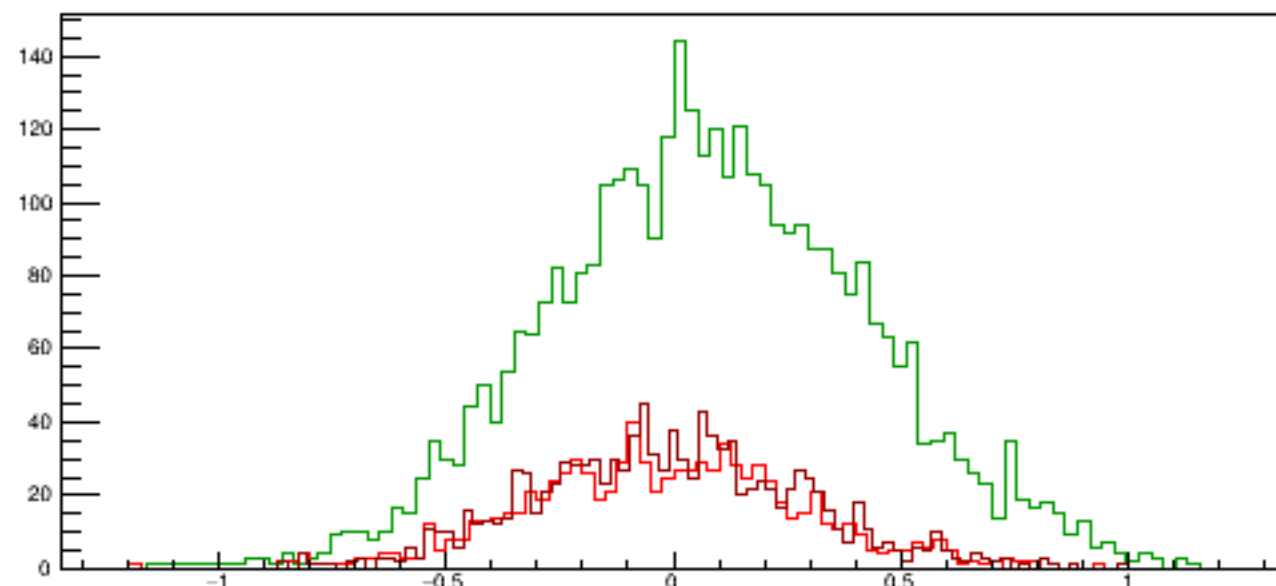




## Cycle 5, Diffs

| Entries: 882               | Entries: 3805              | Entries: 1154              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0236 +/- 0.0101   | Mean: 0.0789 +/- 0.0057    | Mean: -0.0116 +/- 0.0087   |
| Std Dev: 0.3008 +/- 0.0072 | Std Dev: 0.3514 +/- 0.0040 | Std Dev: 0.2957 +/- 0.0062 |

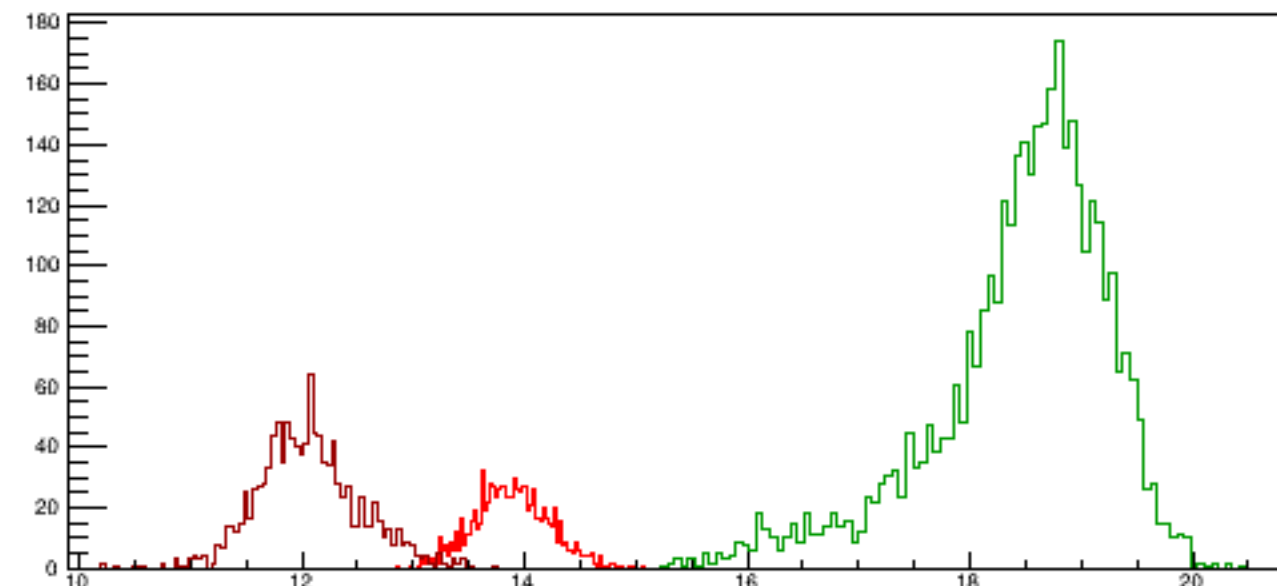
Run 4413 quartetwise, Diffs



## Cycle 5, Sums

| Entries: 882               | Entries: 3805              | Entries: 1154              |
|----------------------------|----------------------------|----------------------------|
| Mean: 13.8891 +/- 0.0117   | Mean: 18.4444 +/- 0.0131   | Mean: 12.0590 +/- 0.0139   |
| Std Dev: 0.3472 +/- 0.0083 | Std Dev: 0.8068 +/- 0.0092 | Std Dev: 0.4726 +/- 0.0098 |

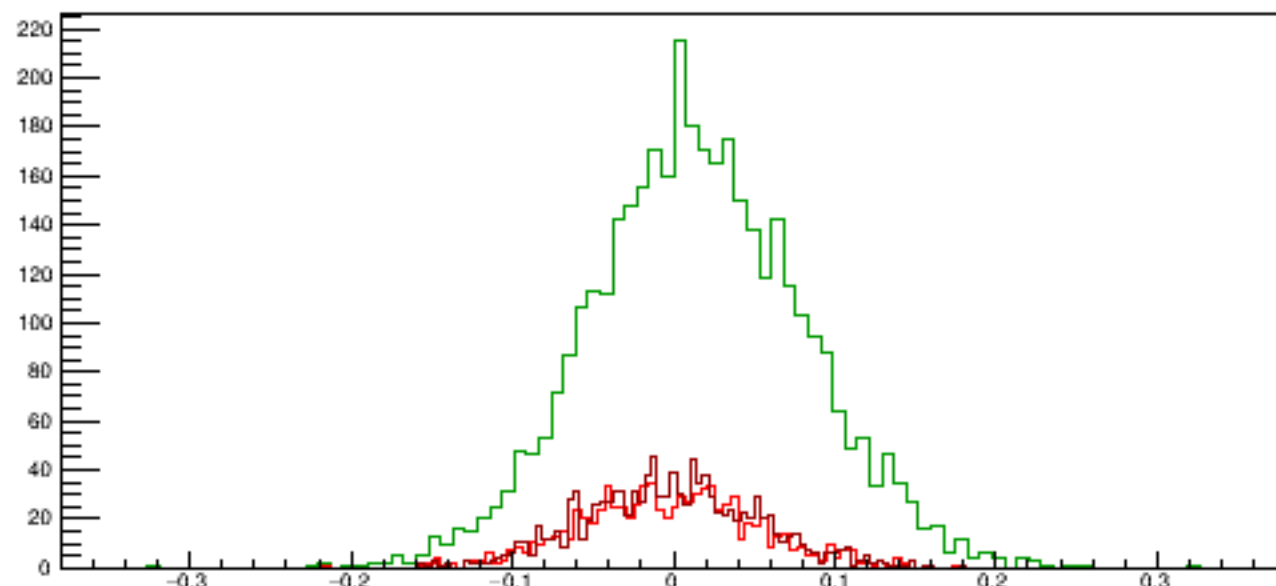
Run 4413 quartetwise, Sums



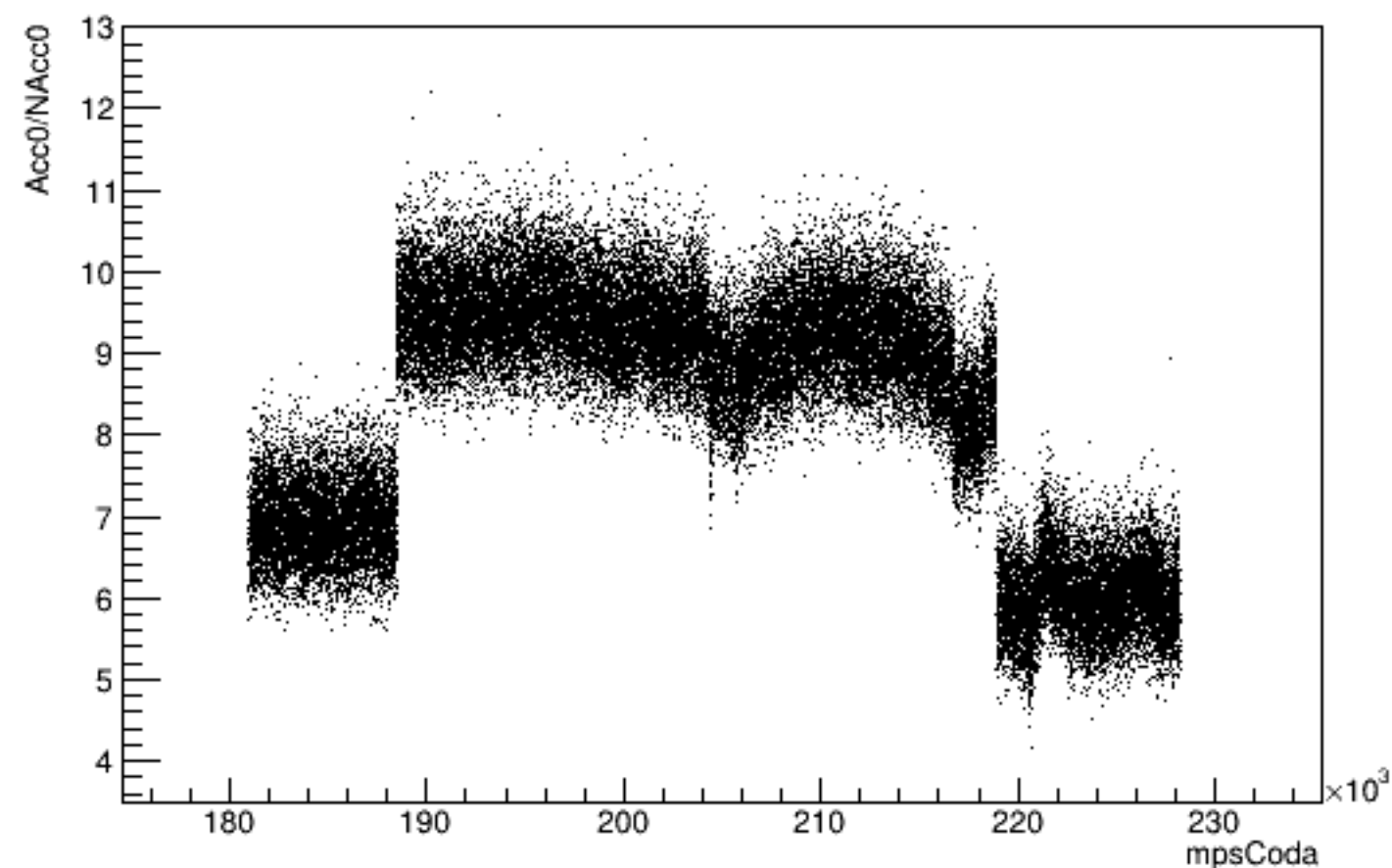
## Cycle 5, Asyms

| Entries: 882               | Entries: 3805              | Entries: 1154              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0043 +/- 0.0019   | Mean: 0.0147 +/- 0.0011    | Mean: -0.0021 +/- 0.0016   |
| Std Dev: 0.0550 +/- 0.0013 | Std Dev: 0.0665 +/- 0.0008 | Std Dev: 0.0541 +/- 0.0011 |

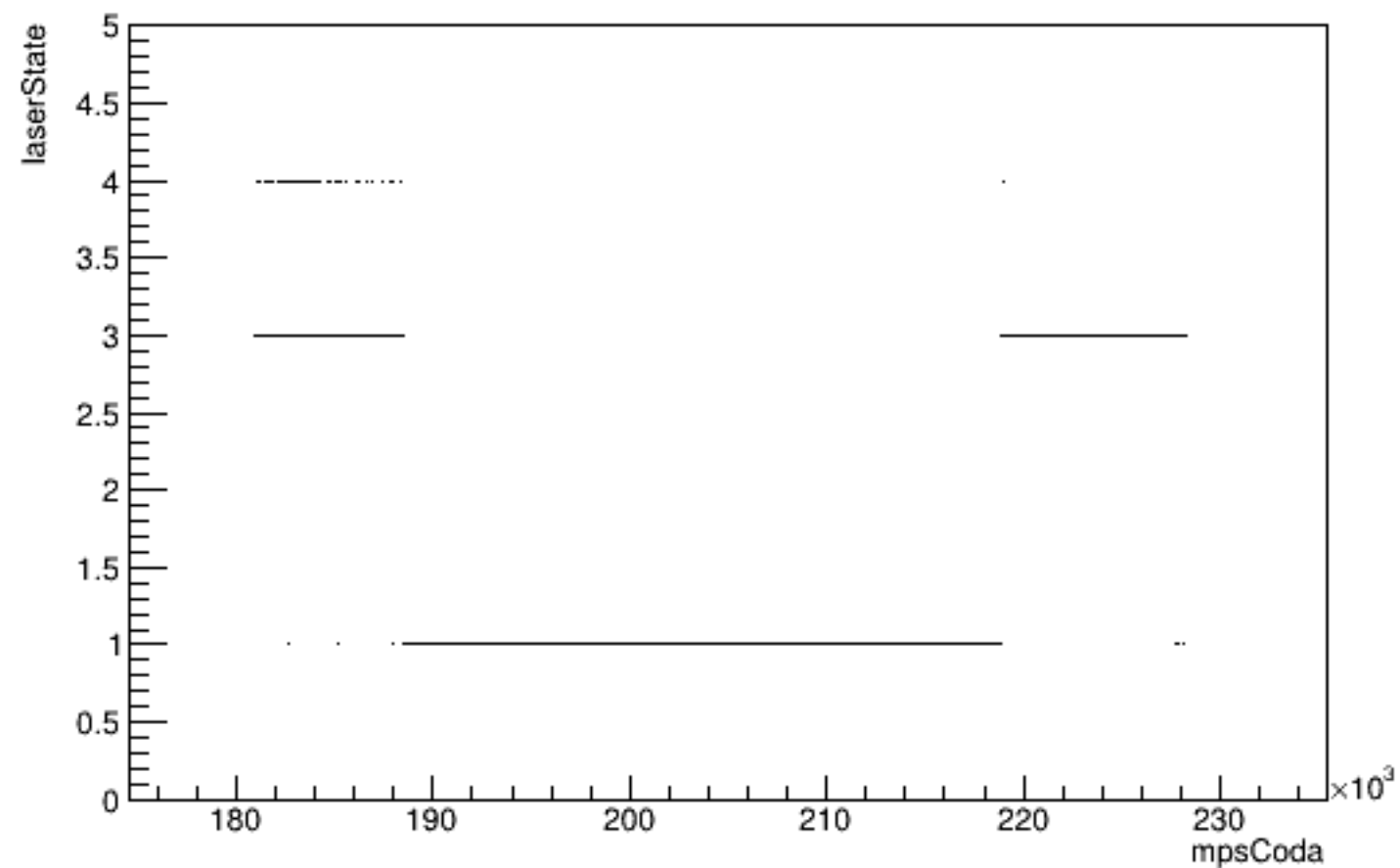
Run 4413 quartetwise, Asyms



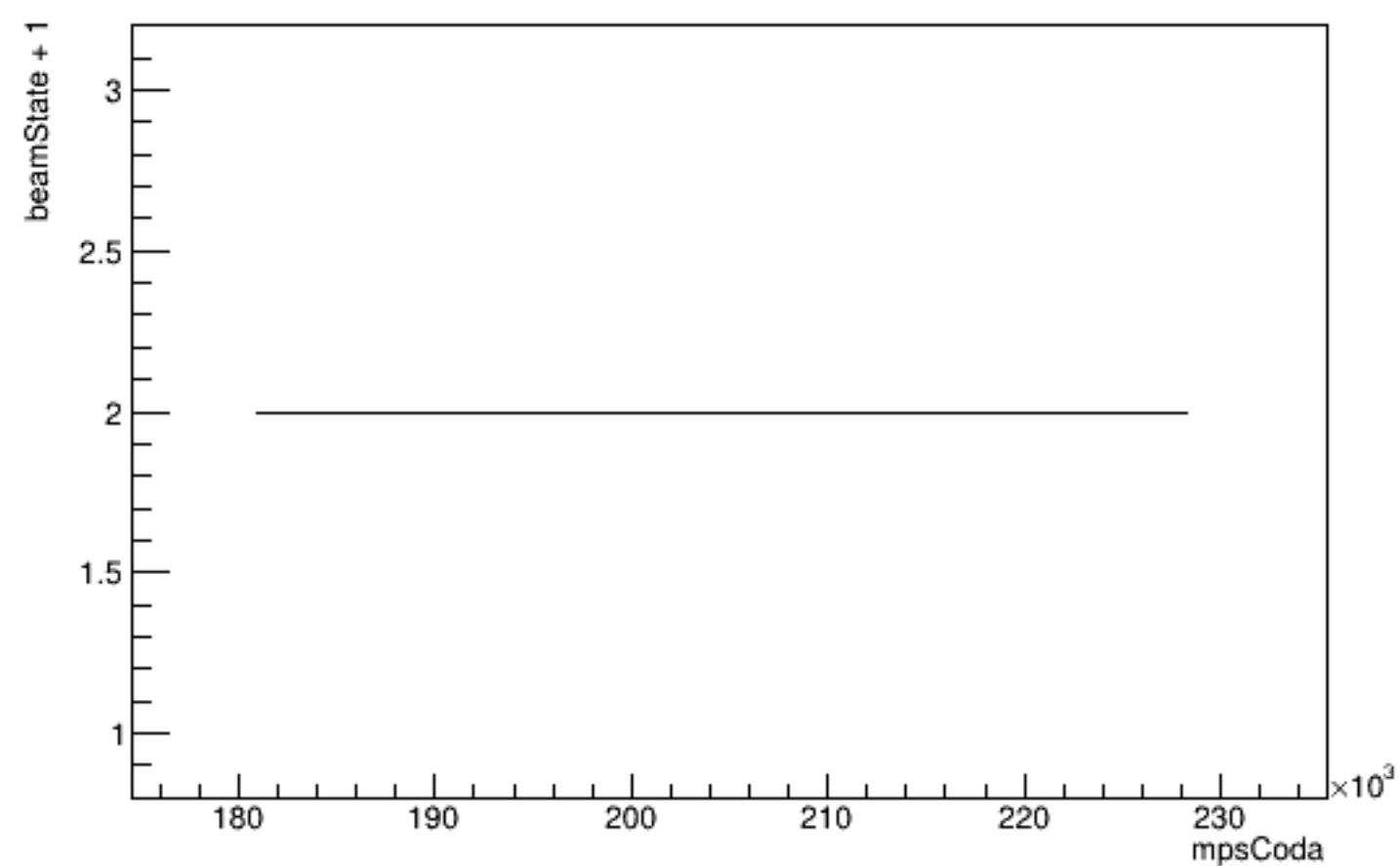
Acc0/NAcc0:mpsCoda (mpsCoda>=180969 && mpsCoda<=228216 && beamState==1)



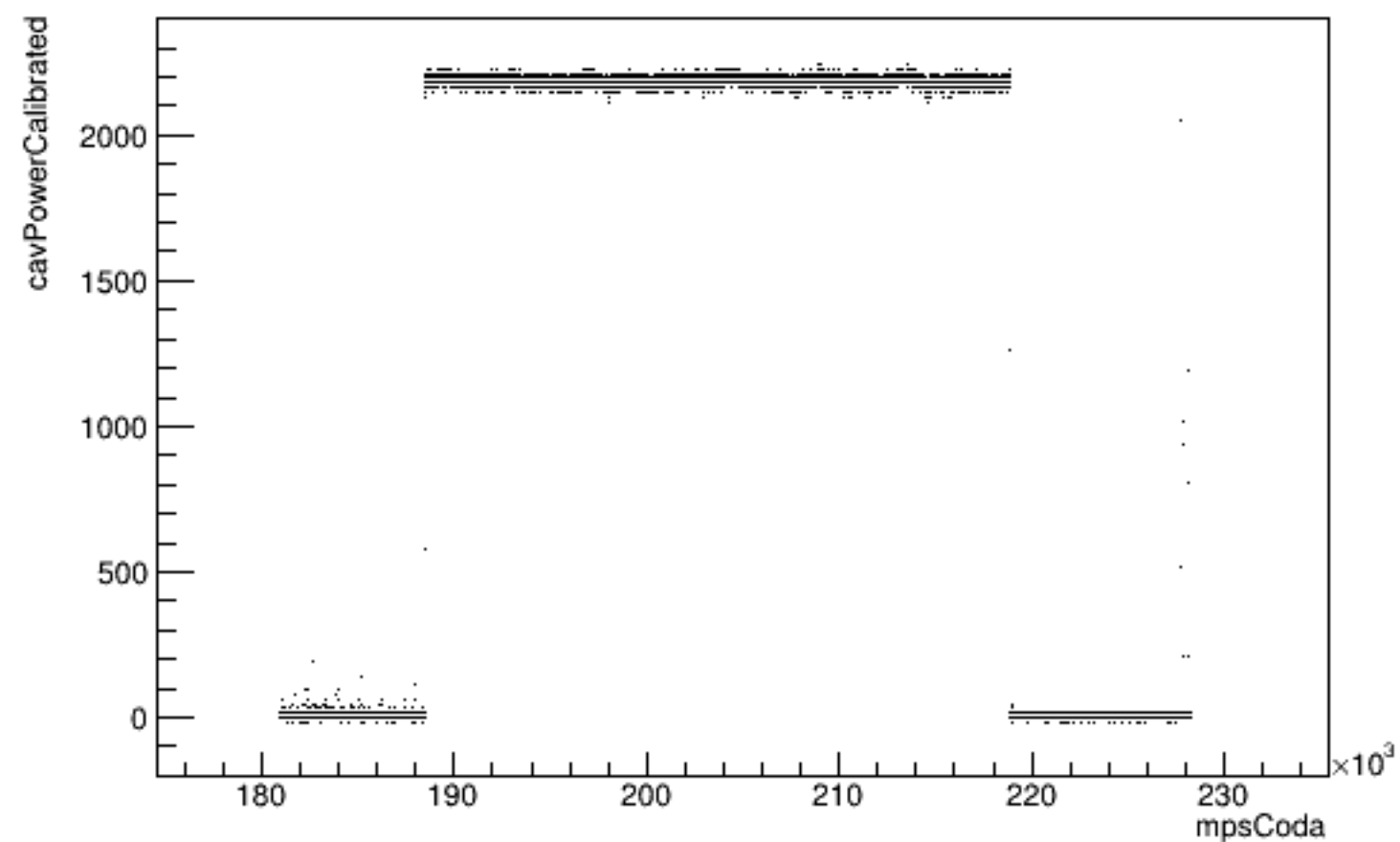
laserState:mpsCoda {mpsCoda&gt;=180969 &amp;&amp; mpsCoda&lt;=228216}



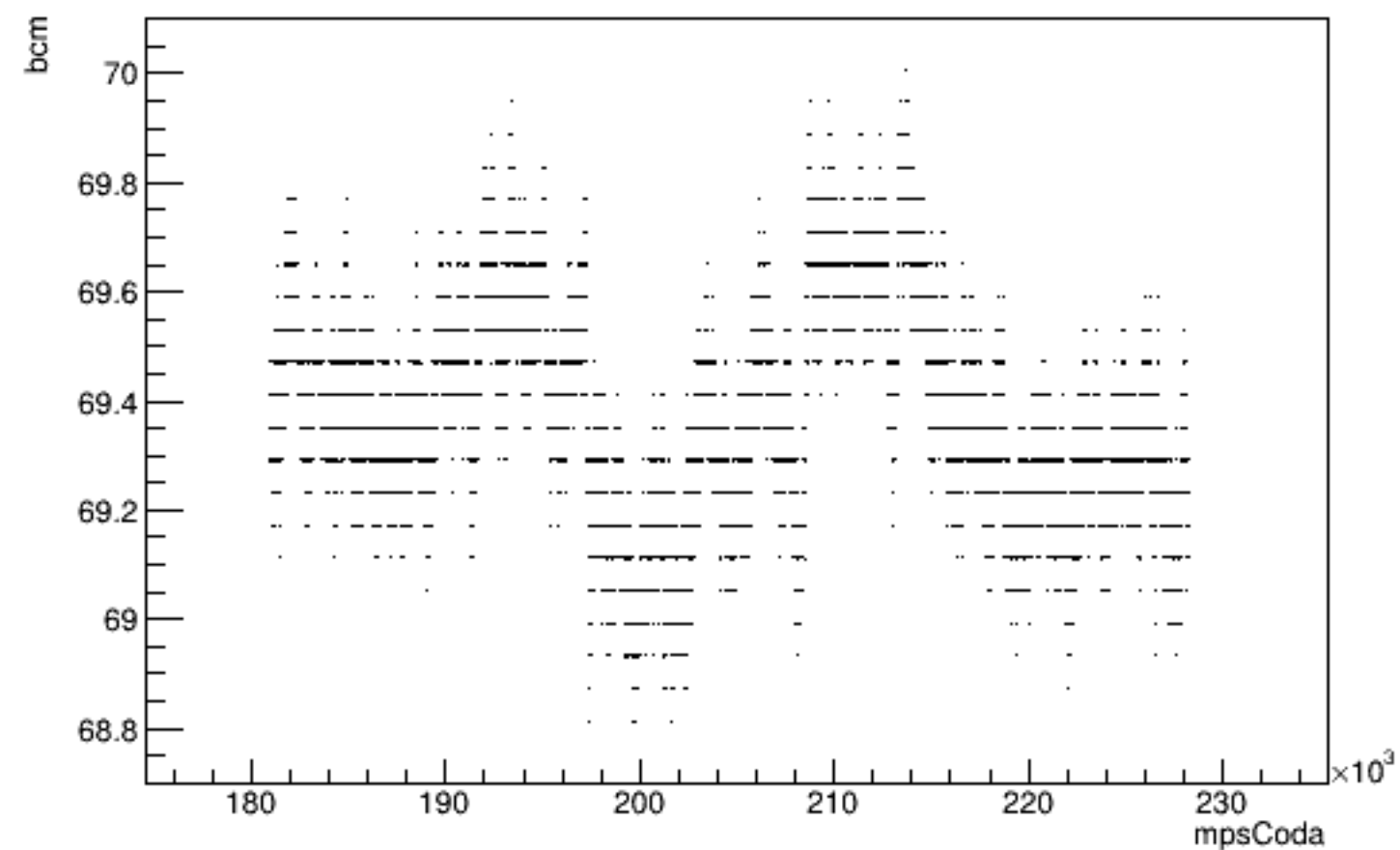
beamState + 1:mpsCoda {mpsCoda&gt;=180969 &amp;&amp; mpsCoda&lt;=228216}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=180969 &amp;&amp; mpsCoda&lt;=228216}



bcm:mpsCoda {mpsCoda&gt;=180969 &amp;&amp; mpsCoda&lt;=228216}



## Cycle 6, Diffs

Entries: 1154

Mean: -0.0116 +/- 0.0087

Std Dev: 0.2957 +/- 0.0062

Entries: 3766

Mean: 0.0724 +/- 0.0057

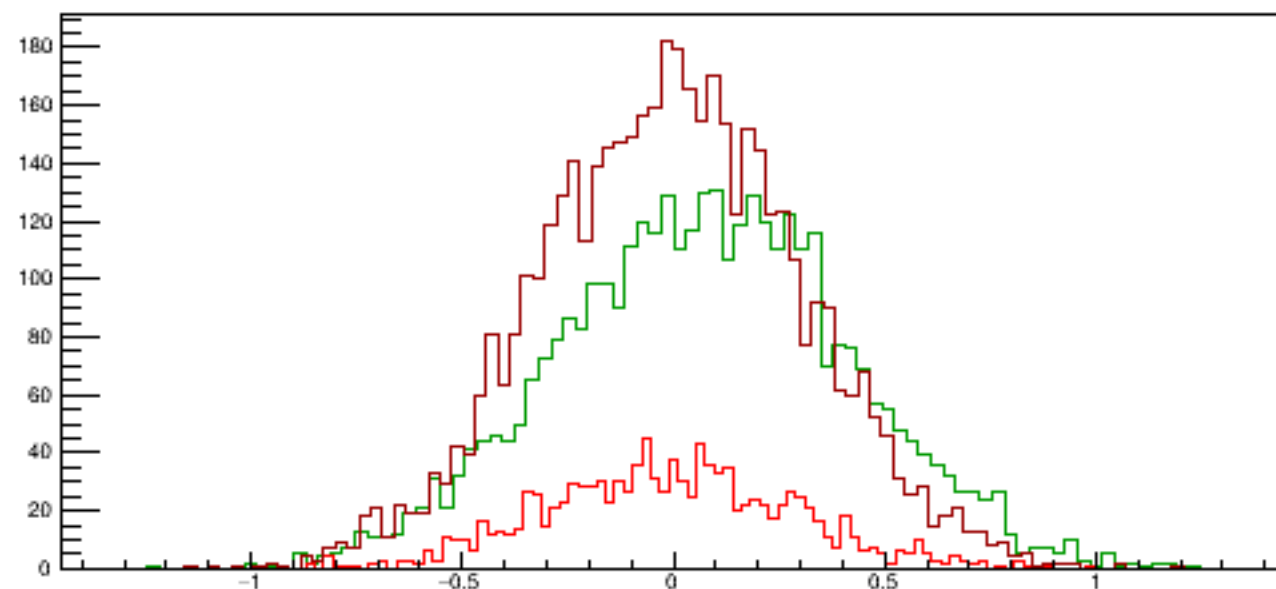
Std Dev: 0.3474 +/- 0.0040

Entries: 4697

Mean: -0.0049 +/- 0.0045

Std Dev: 0.3088 +/- 0.0032

Run 4413 quartetwise, Diffs



## Cycle 6, Sums

Entries: 1154

Mean: 12.0590 +/- 0.0139

Std Dev: 0.4726 +/- 0.0098

Entries: 3766

Mean: 18.3559 +/- 0.0110

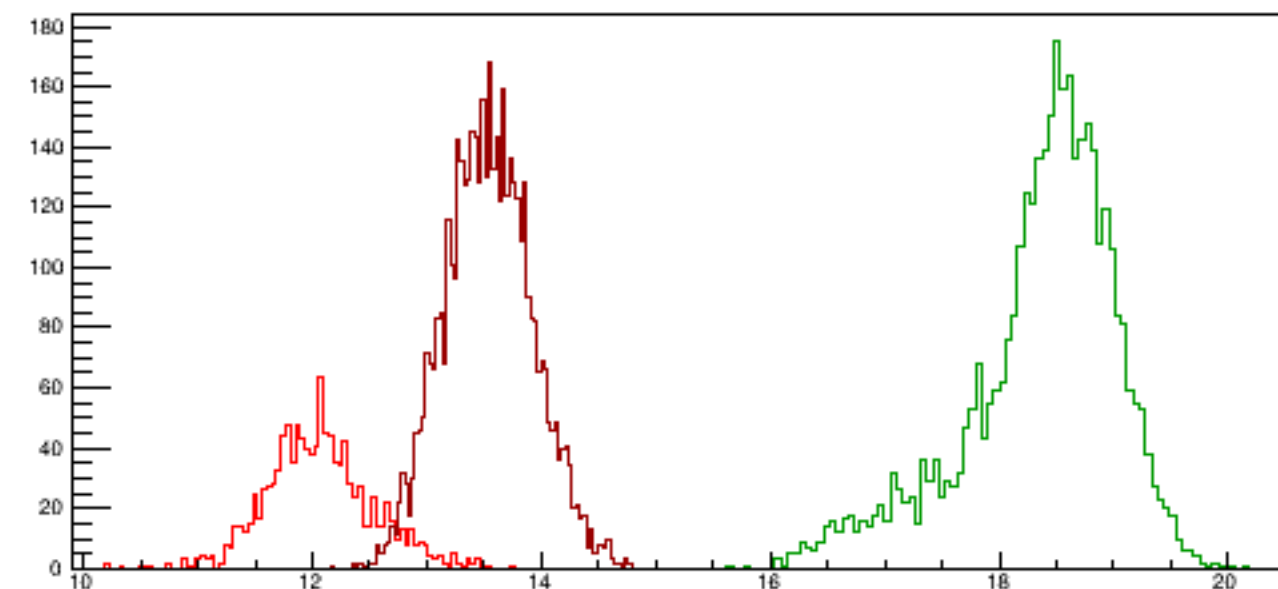
Std Dev: 0.6724 +/- 0.0077

Entries: 4697

Mean: 13.5429 +/- 0.0056

Std Dev: 0.3845 +/- 0.0040

Run 4413 quartetwise, Sums



## Cycle 6, Asyms

Entries: 1154

Mean: -0.0021 +/- 0.0016

Std Dev: 0.0532 +/- 0.0011

Entries: 3766

Mean: 0.0135 +/- 0.0010

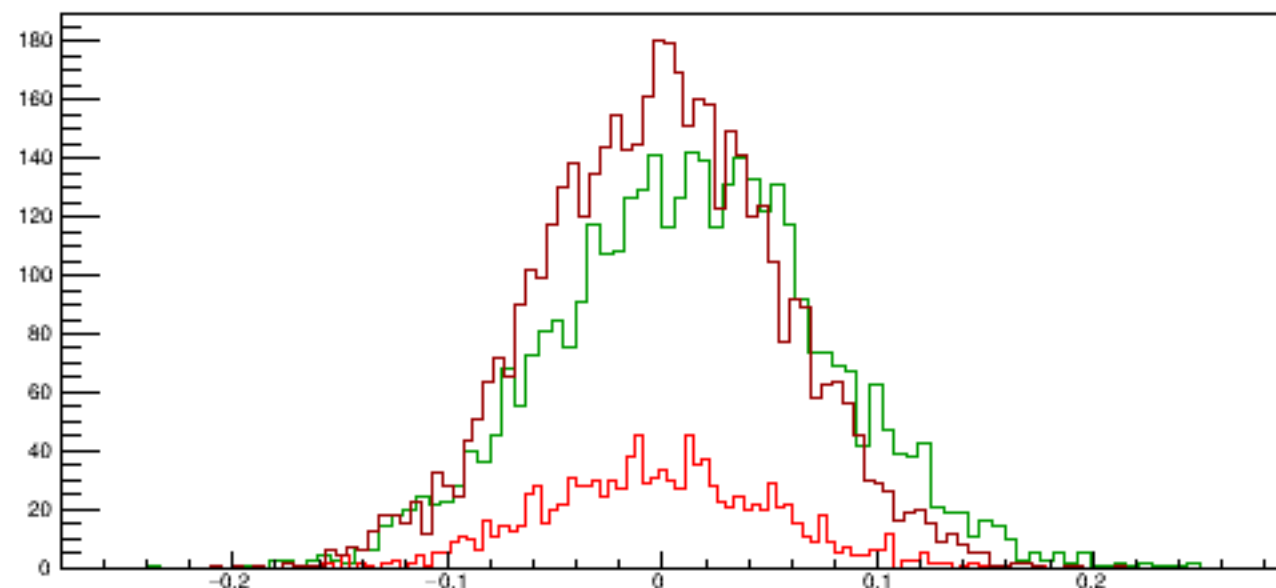
Std Dev: 0.0638 +/- 0.0007

Entries: 4697

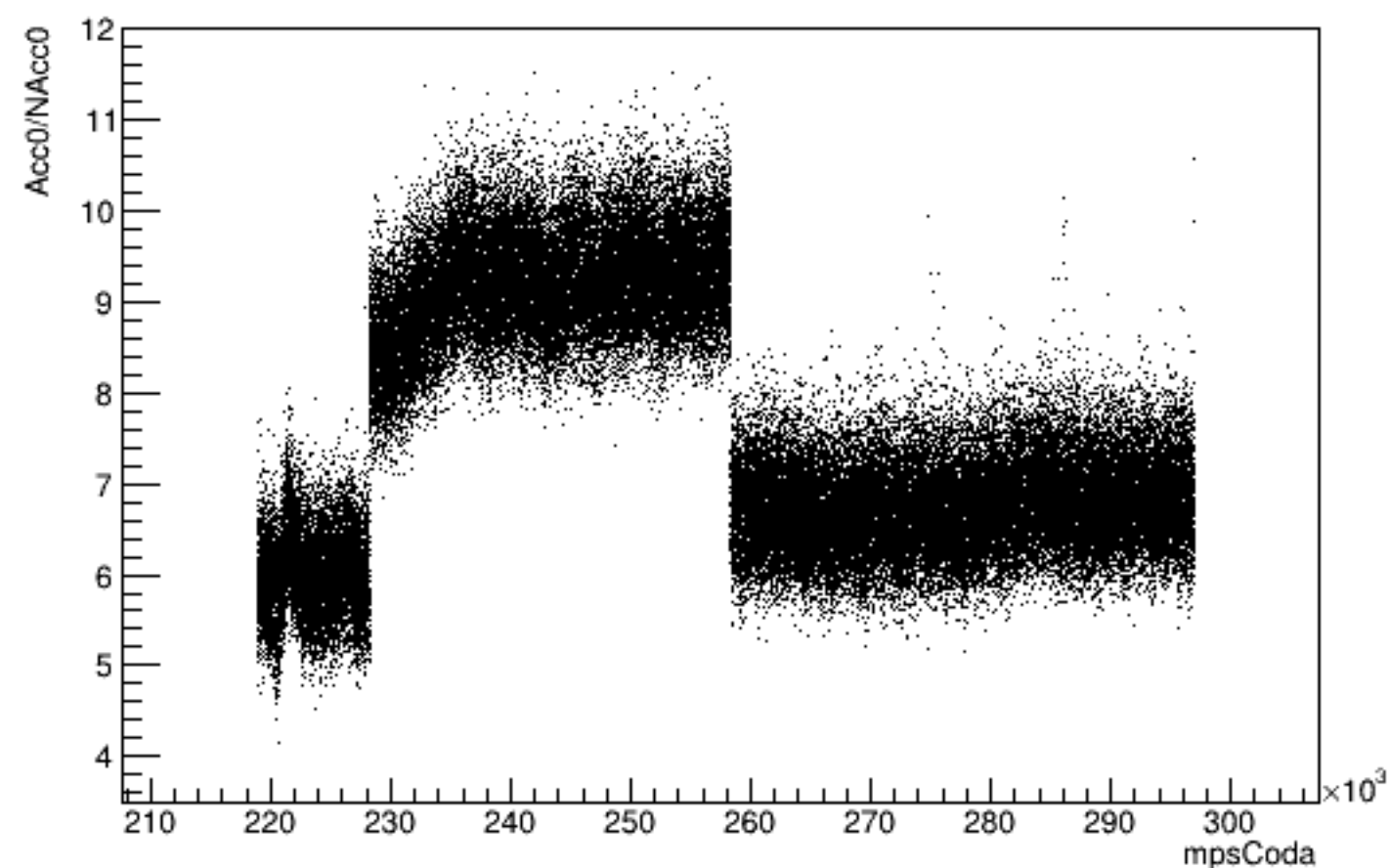
Mean: -0.0009 +/- 0.0008

Std Dev: 0.0556 +/- 0.0006

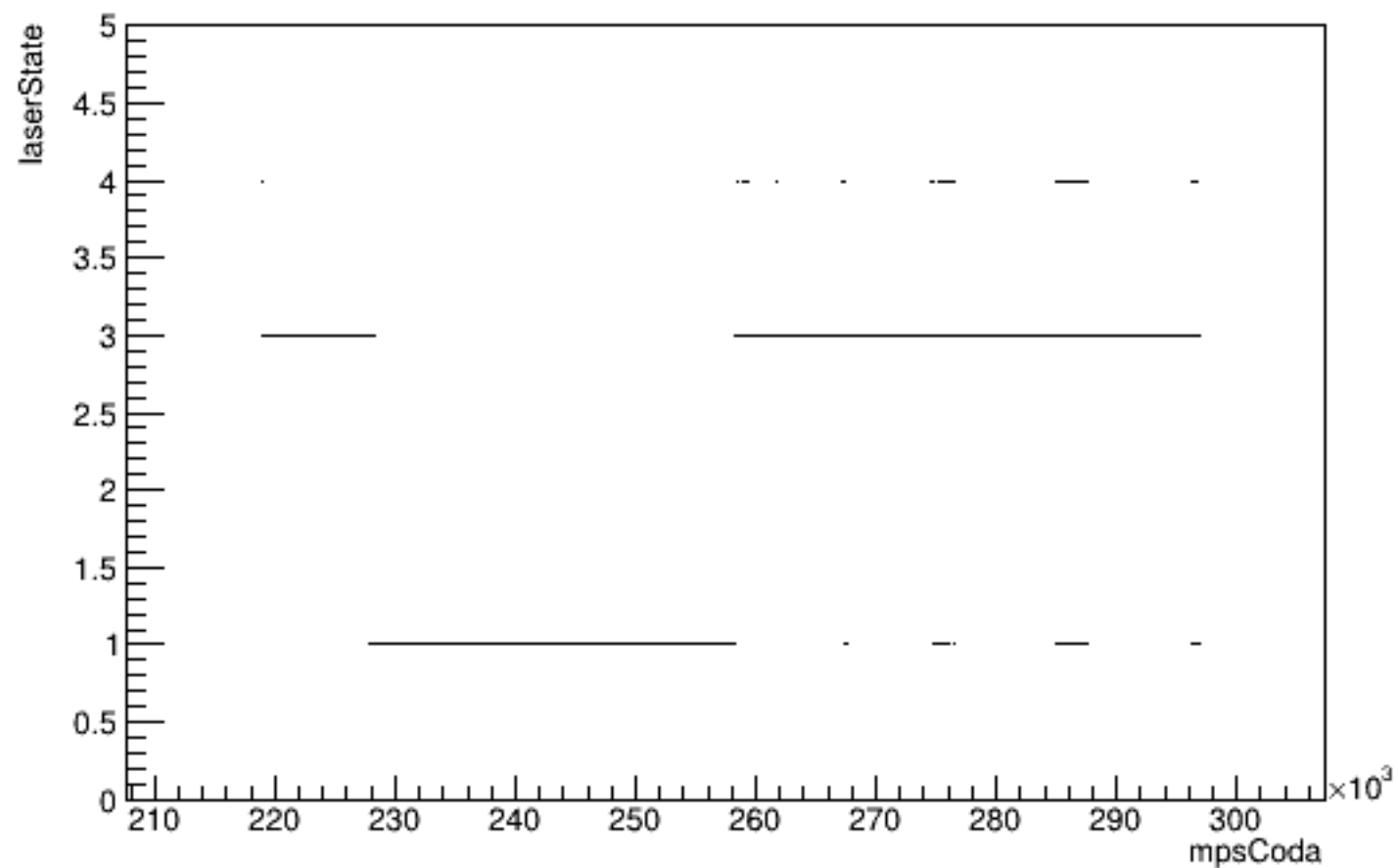
Run 4413 quartetwise, Asyms



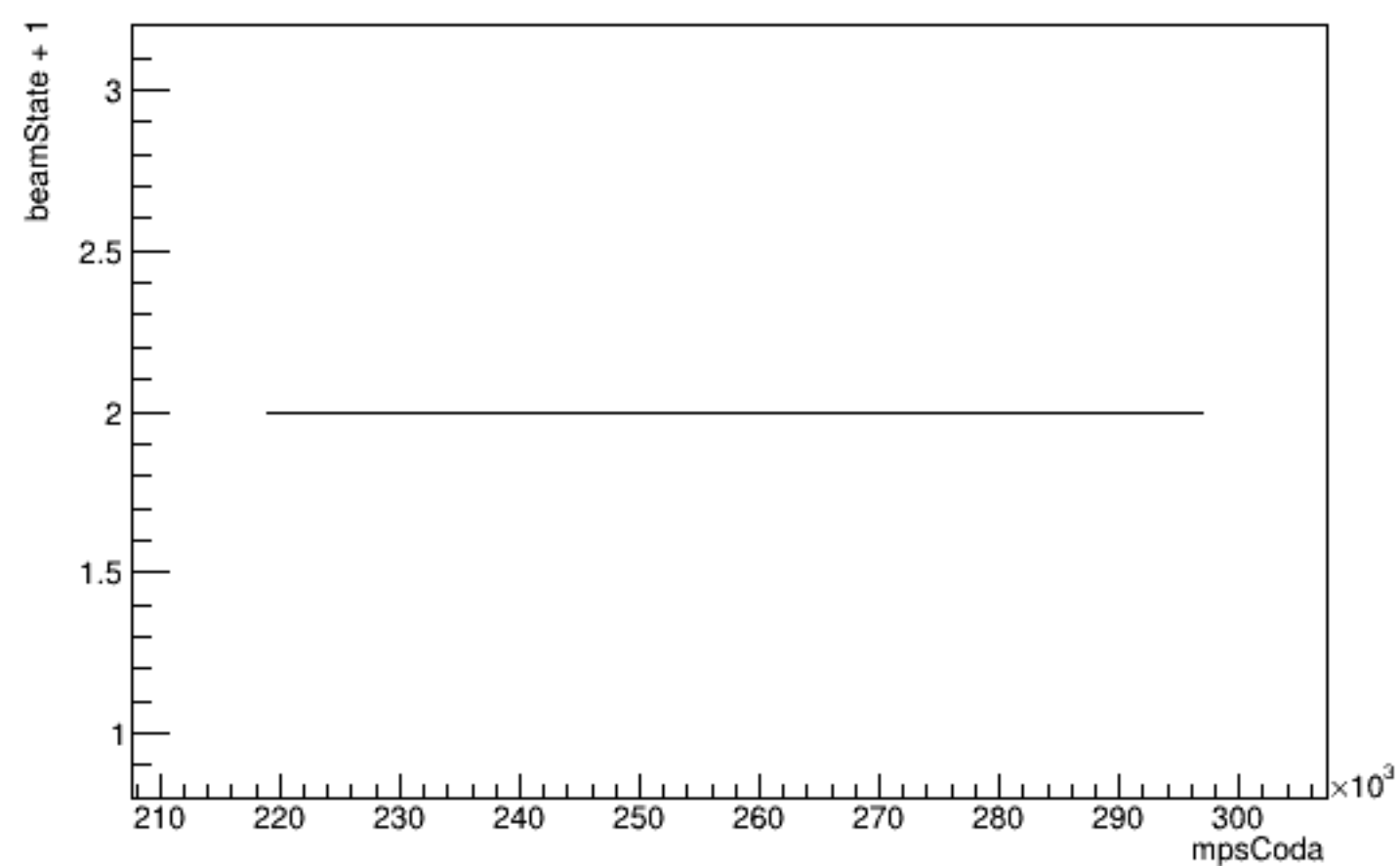
Acc0/NAcc0:mpsCoda (mpsCoda>=218921 && mpsCoda<=296880 && beamState==1)



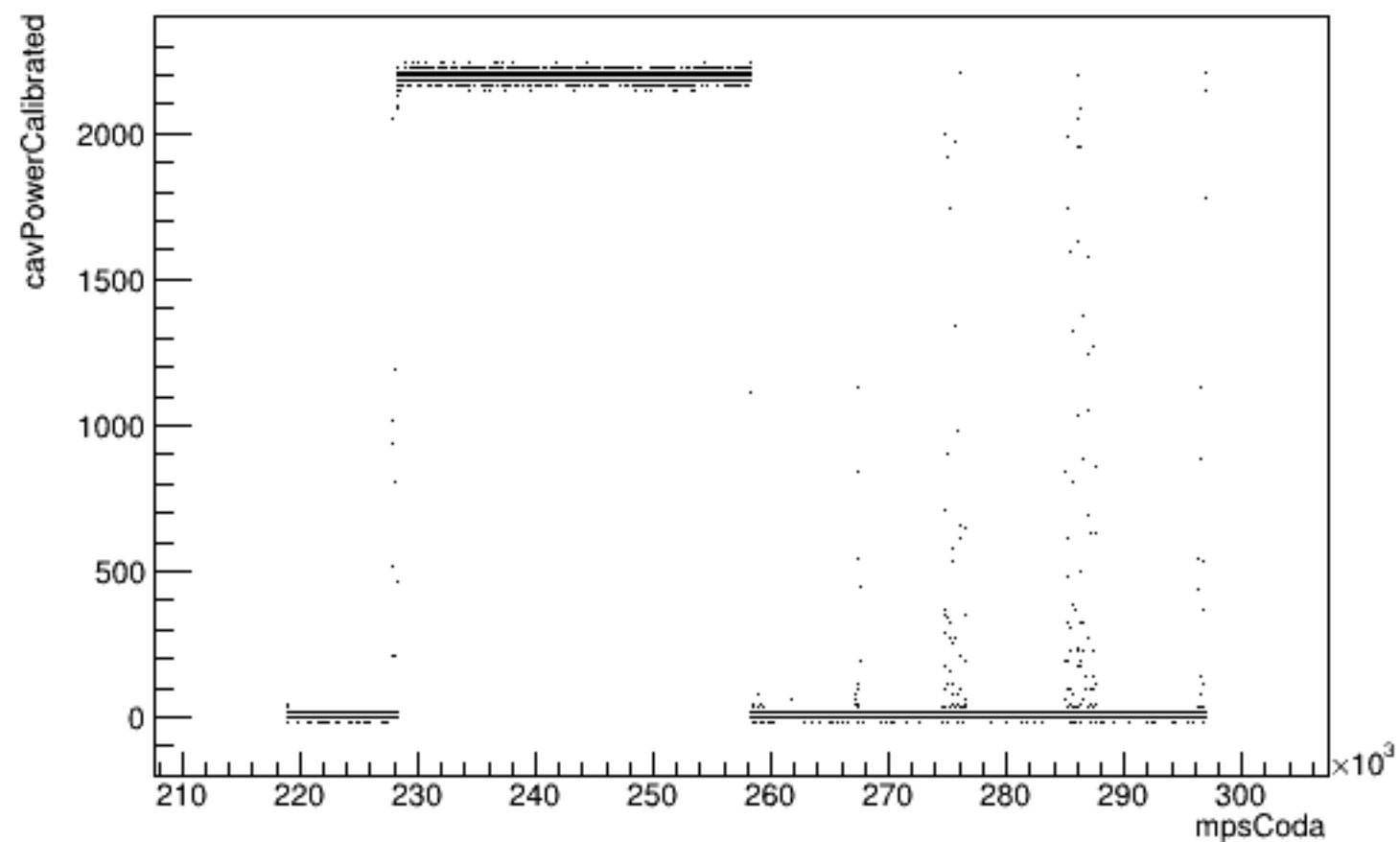
laserState:mpsCoda {mpsCoda&gt;=218921 &amp;&amp; mpsCoda&lt;=296880}



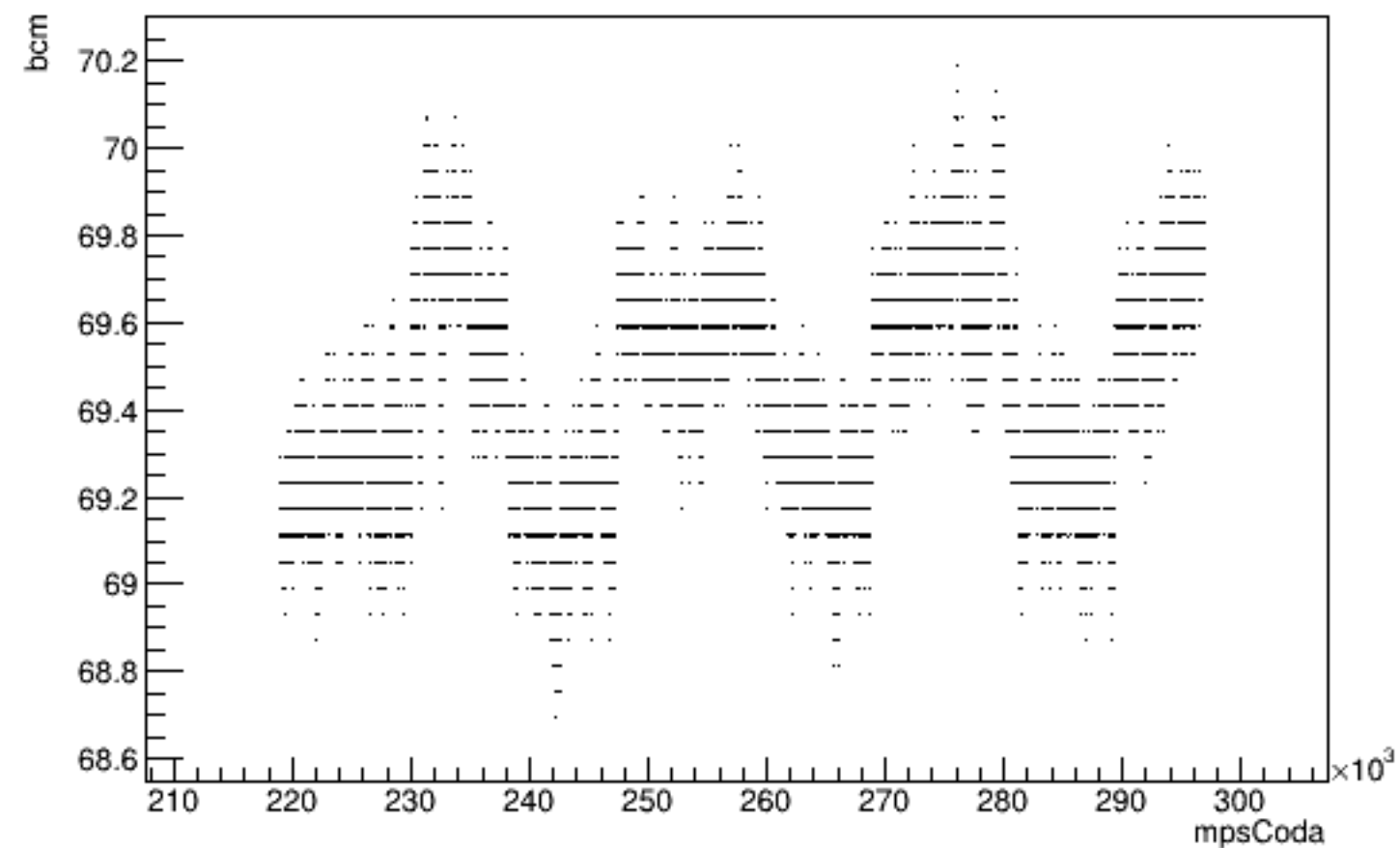
beamState + 1:mpsCoda {mpsCoda&gt;=218921 &amp;&amp; mpsCoda&lt;=296880}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=218921 &amp;&amp; mpsCoda&lt;=296880}



bcm:mpsCoda {mpsCoda&gt;=218921 &amp;&amp; mpsCoda&lt;=296880}



## Cycle 7, Diffs

Entries: 4697

Mean: -0.0049 +/- 0.0045

Std Dev: 0.3088 +/- 0.0032

Entries: 3757

Mean: 0.0785 +/- 0.0056

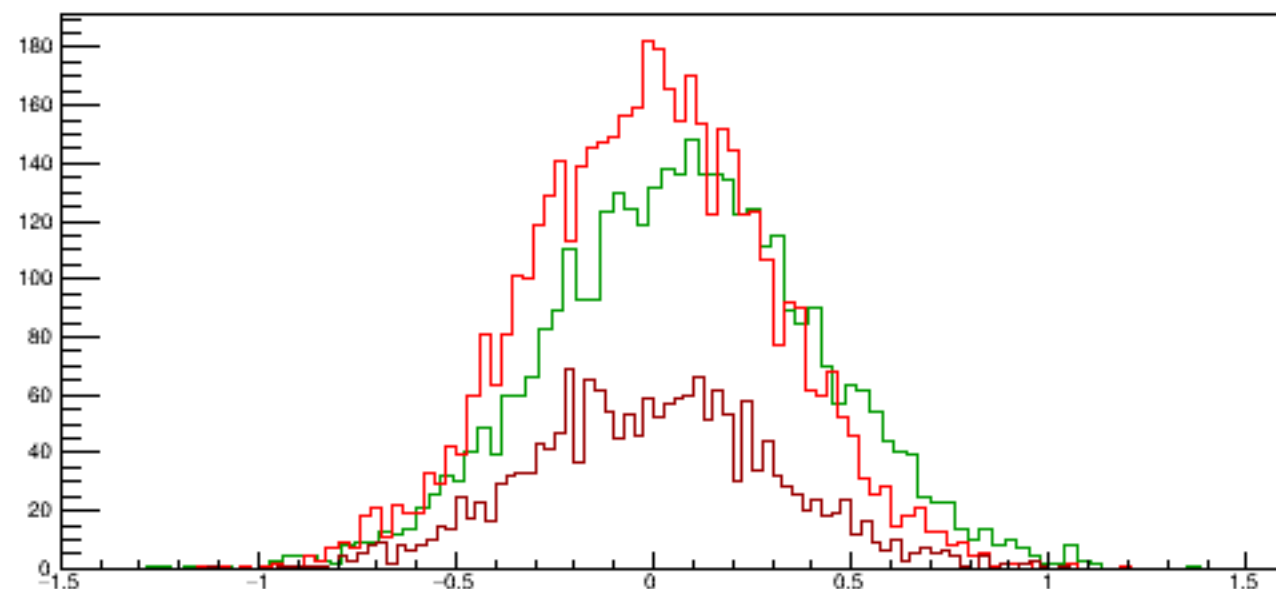
Std Dev: 0.3441 +/- 0.0040

Entries: 1841

Mean: -0.0039 +/- 0.0073

Std Dev: 0.3126 +/- 0.0052

Run 4413 quartetwise, Diffs



## Cycle 7, Sums

Entries: 4697

Mean: 13.5429 +/- 0.0056

Std Dev: 0.3845 +/- 0.0040

Entries: 3757

Mean: 19.0337 +/- 0.0065

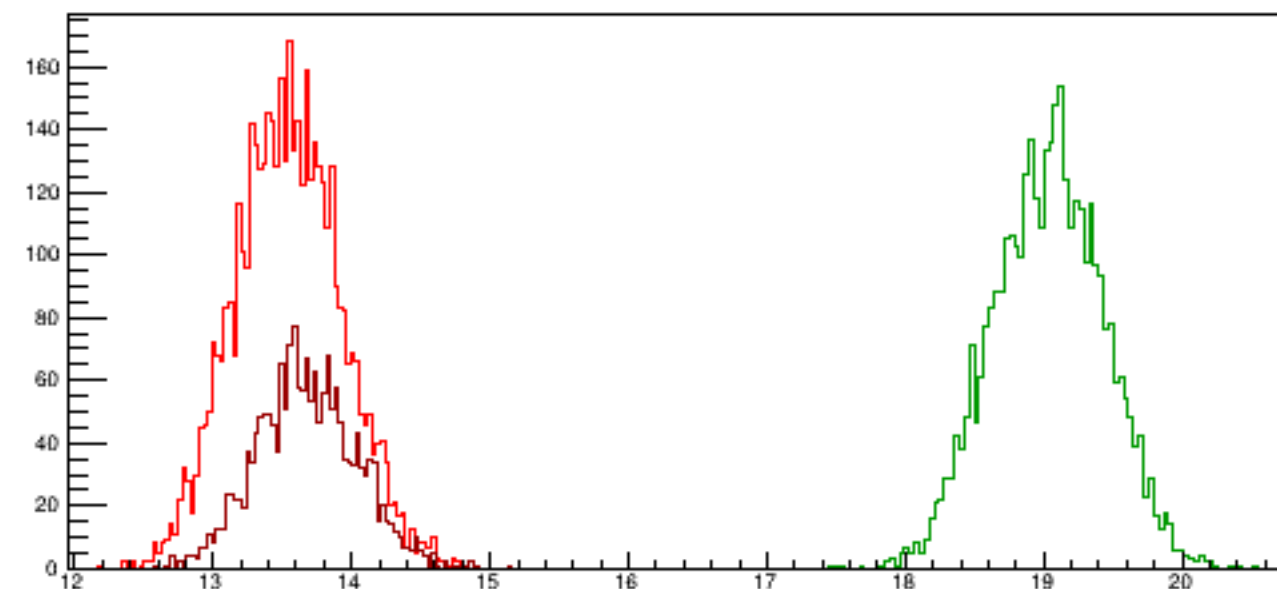
Std Dev: 0.4006 +/- 0.0046

Entries: 1841

Mean: 13.6752 +/- 0.0084

Std Dev: 0.3602 +/- 0.0059

Run 4413 quartetwise, Sums



## Cycle 7, Asyms

Entries: 4697

Mean: -0.0009 +/- 0.0008

Std Dev: 0.0569 +/- 0.0006

Entries: 3757

Mean: 0.0146 +/- 0.0010

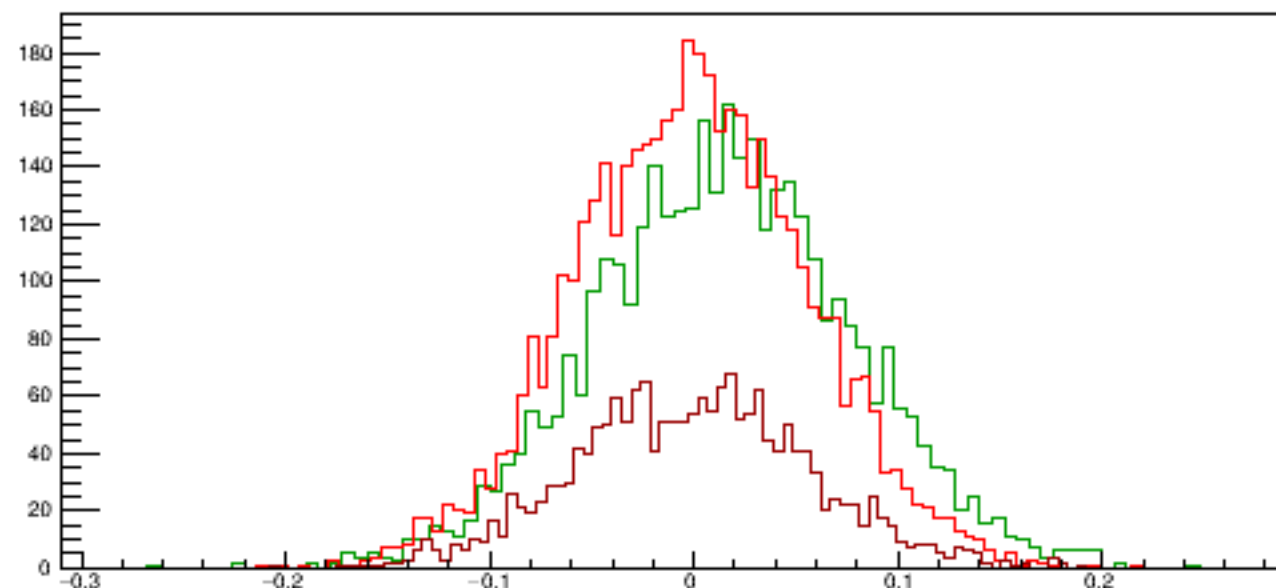
Std Dev: 0.0637 +/- 0.0007

Entries: 1841

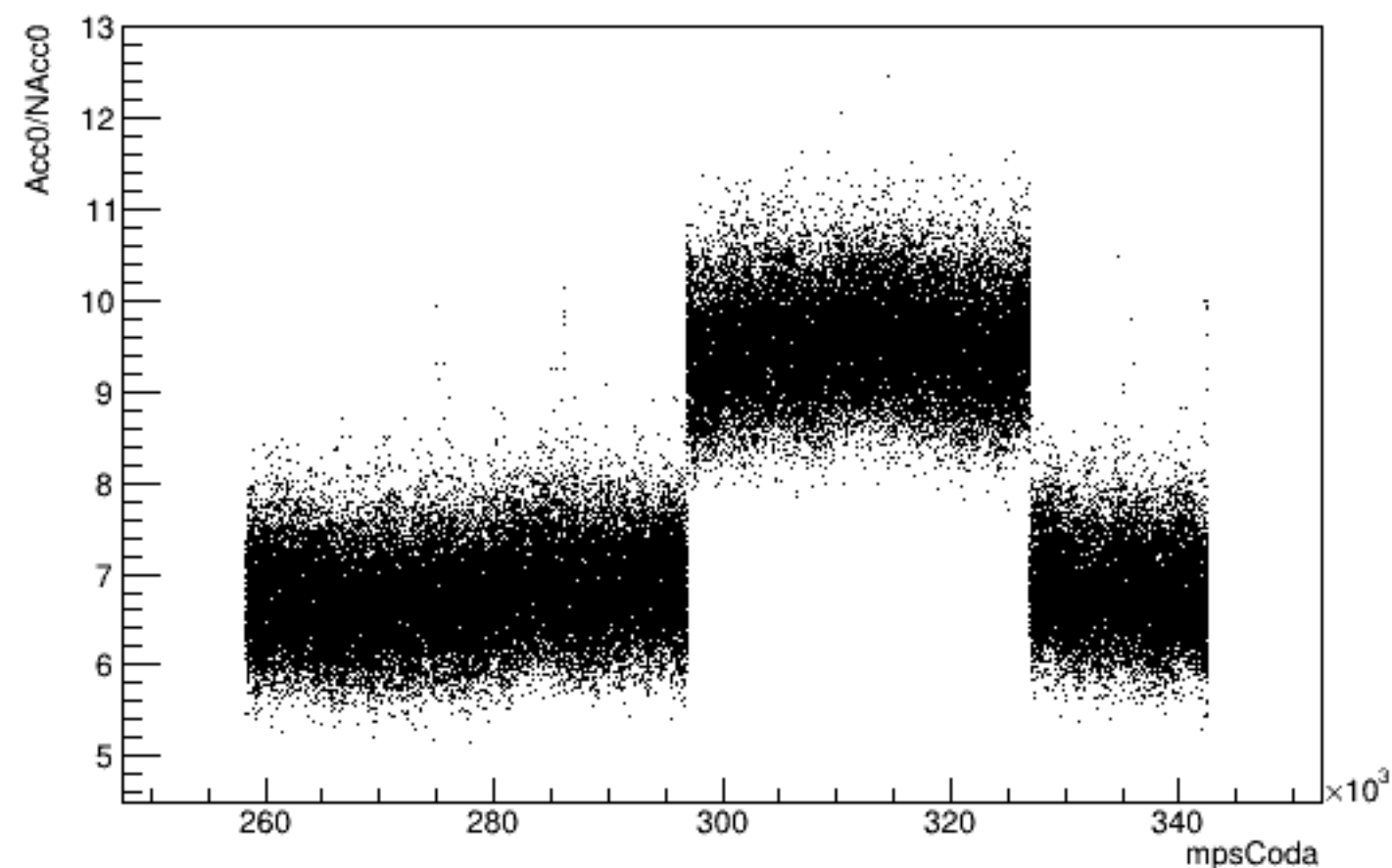
Mean: -0.0007 +/- 0.0013

Std Dev: 0.0576 +/- 0.0009

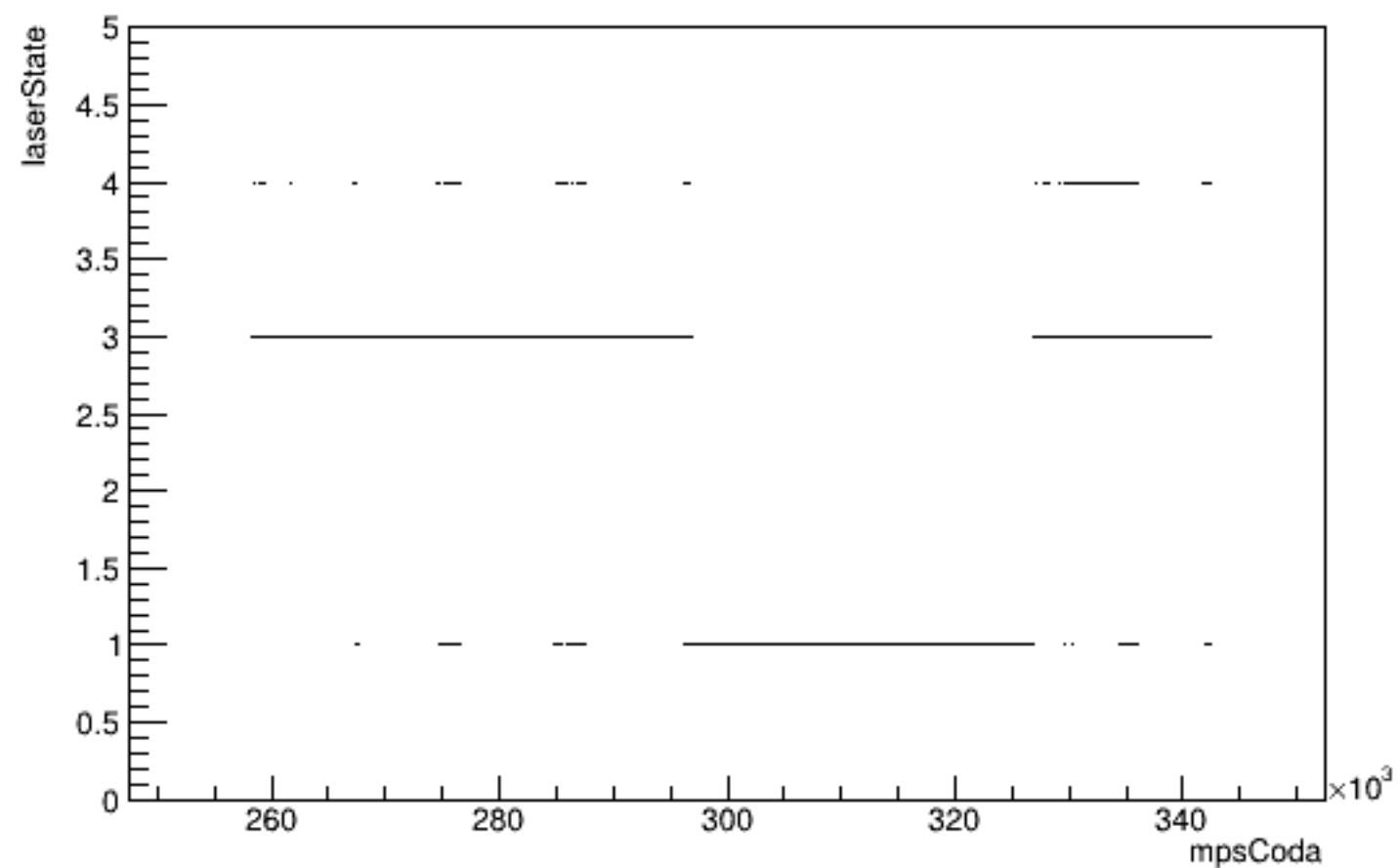
Run 4413 quartetwise, Asyms



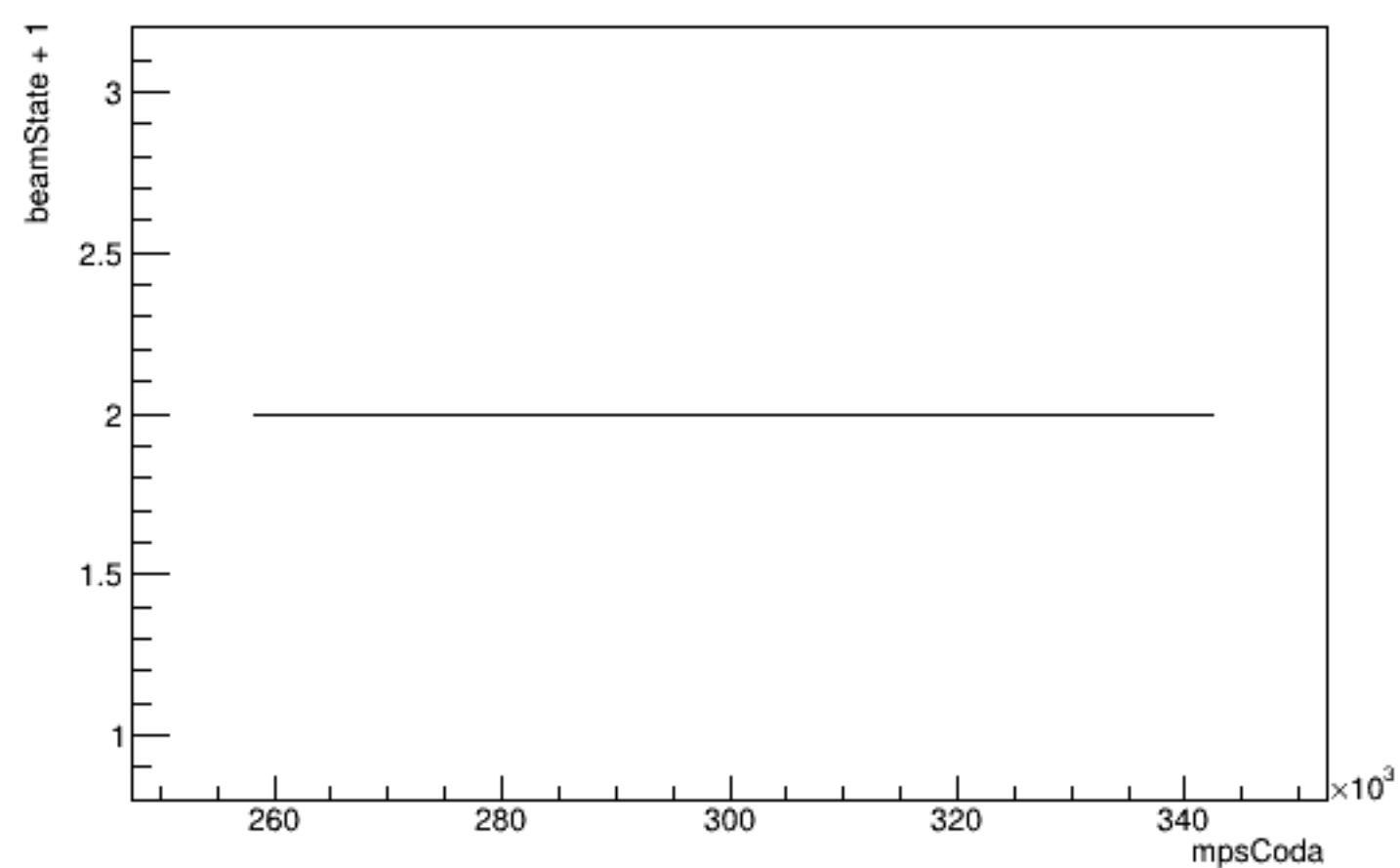
Acc0/NAcc0:mpsCoda (mpsCoda>=258345 && mpsCoda<=342448 && beamState==1)



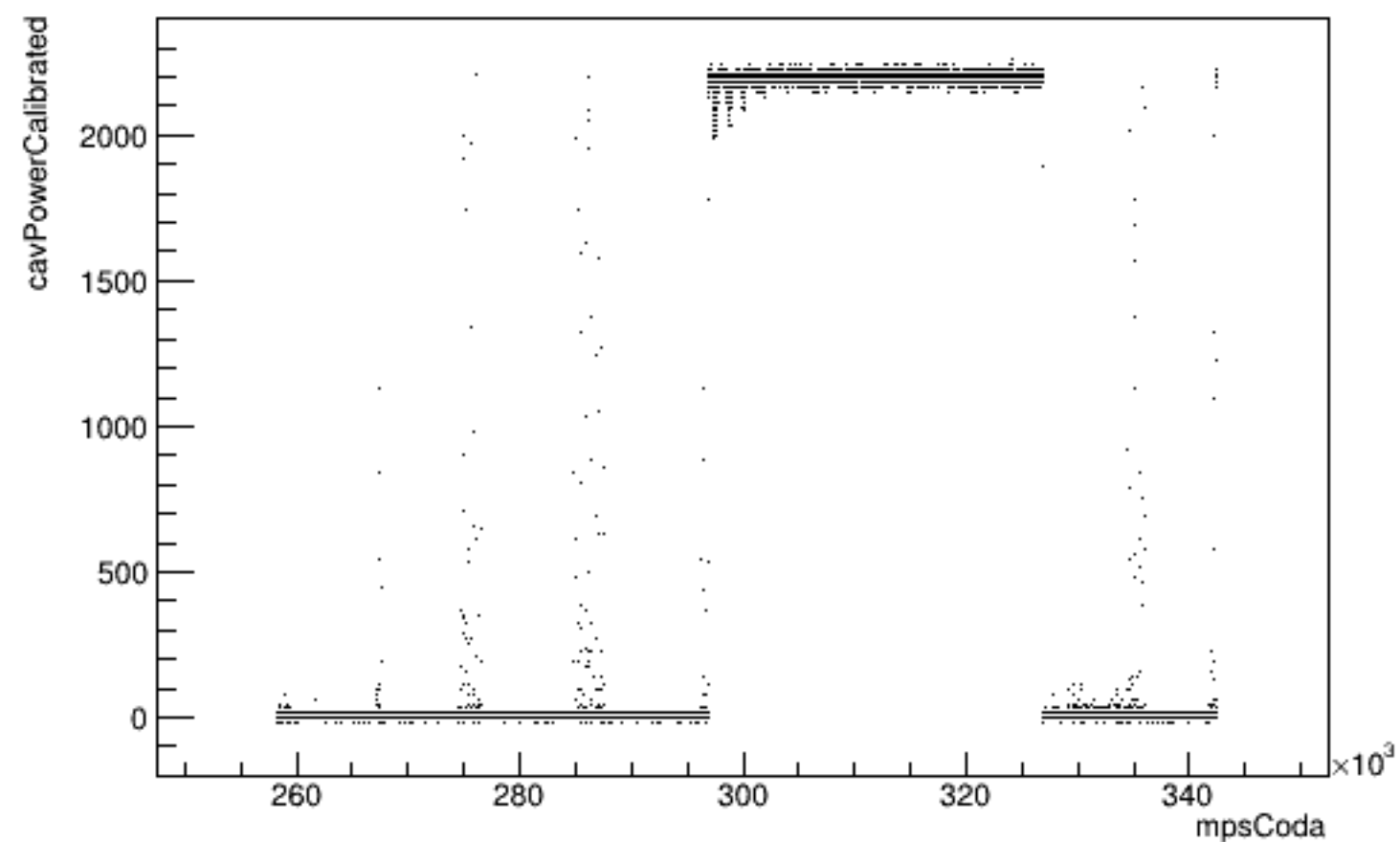
laserState:mpsCoda {mpsCoda&gt;=258345 &amp;&amp; mpsCoda&lt;=342448}



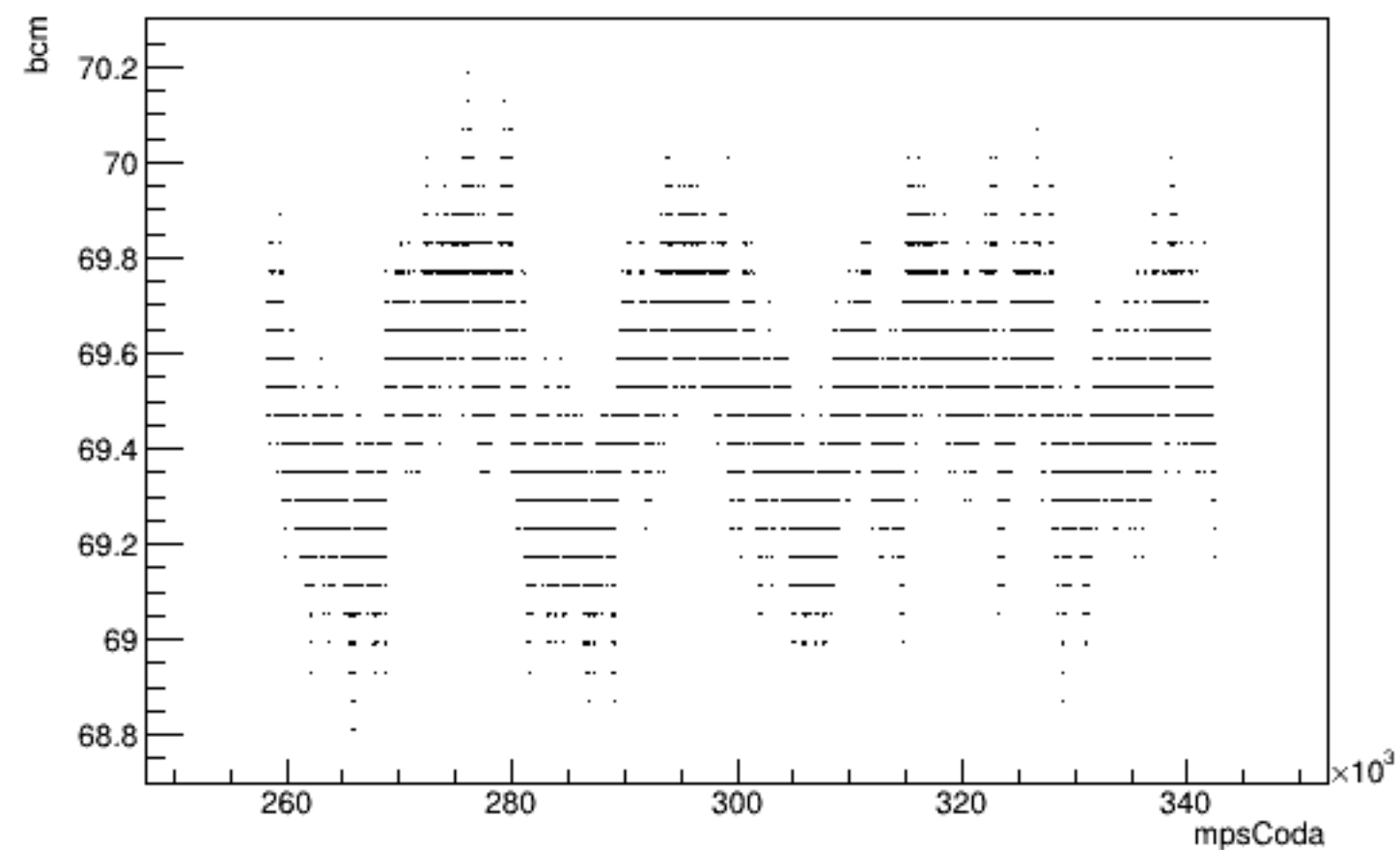
beamState + 1:mpsCoda {mpsCoda&gt;=258345 &amp;&amp; mpsCoda&lt;=342448}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=258345 &amp;&amp; mpsCoda&lt;=342448}



bcm:mpsCoda {mpsCoda&gt;=258345 &amp;&amp; mpsCoda&lt;=342448}





## Cycle 8, Diffs

Entries: 1841

Mean: -0.0039 +/- 0.0073

Std Dev: 0.3126 +/- 0.0052

Entries: 3777

Mean: 0.0698 +/- 0.0056

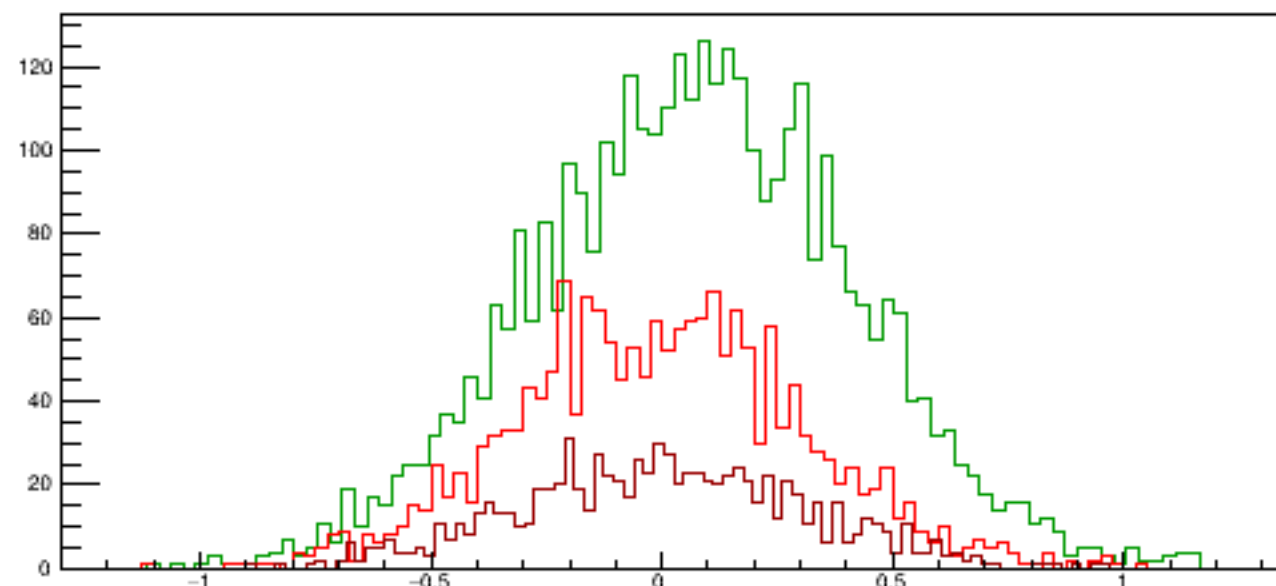
Std Dev: 0.3440 +/- 0.0040

Entries: 884

Mean: 0.0012 +/- 0.0105

Std Dev: 0.3110 +/- 0.0074

Run 4413 quartetwise, Diffs



## Cycle 8, Sums

Entries: 1841

Mean: 13.6752 +/- 0.0084

Std Dev: 0.3602 +/- 0.0059

Entries: 3777

Mean: 19.0288 +/- 0.0063

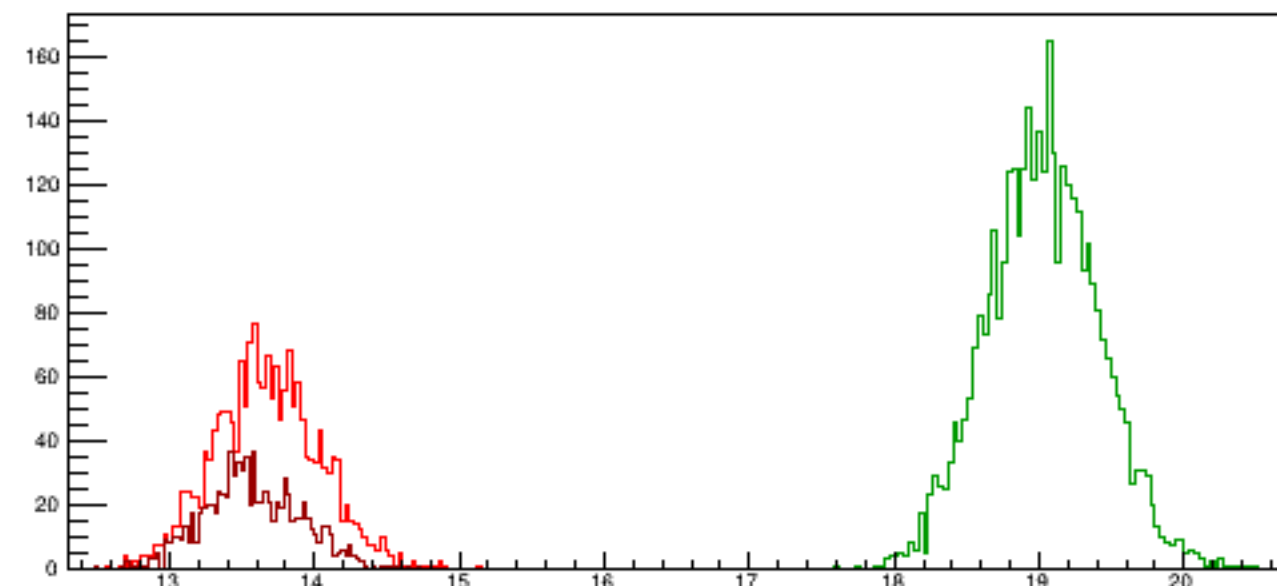
Std Dev: 0.3872 +/- 0.0045

Entries: 884

Mean: 13.5771 +/- 0.0113

Std Dev: 0.3356 +/- 0.0080

Run 4413 quartetwise, Sums



## Cycle 8, Asyms

Entries: 1841

Mean: -0.0007 +/- 0.0013

Std Dev: 0.0579 +/- 0.0010

Entries: 3777

Mean: 0.0130 +/- 0.0010

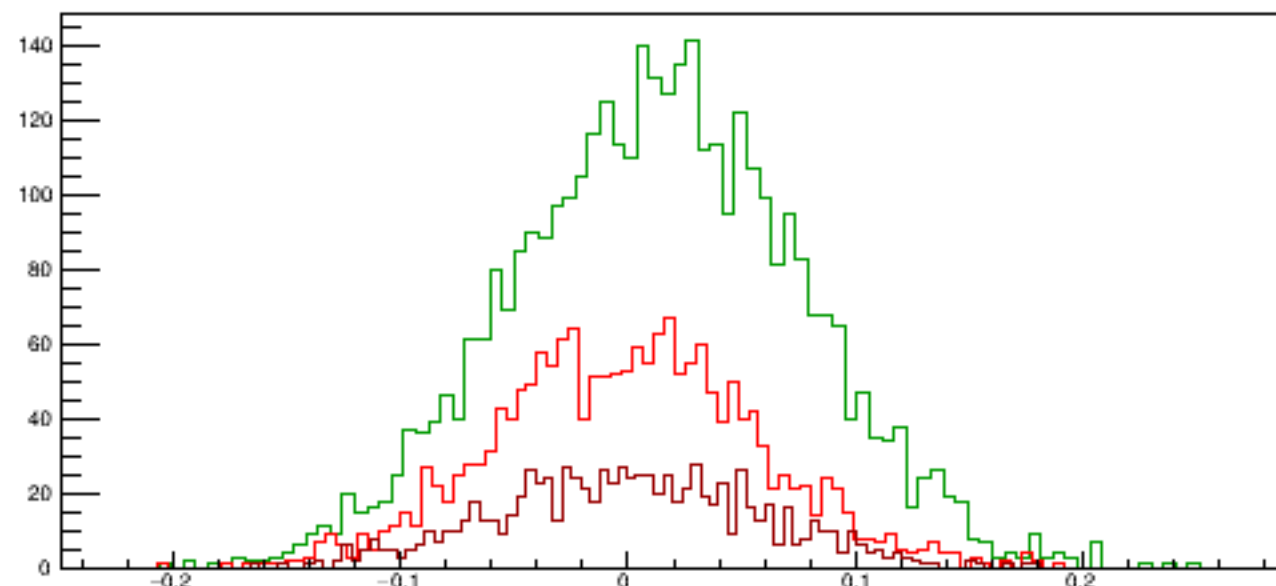
Std Dev: 0.0638 +/- 0.0007

Entries: 884

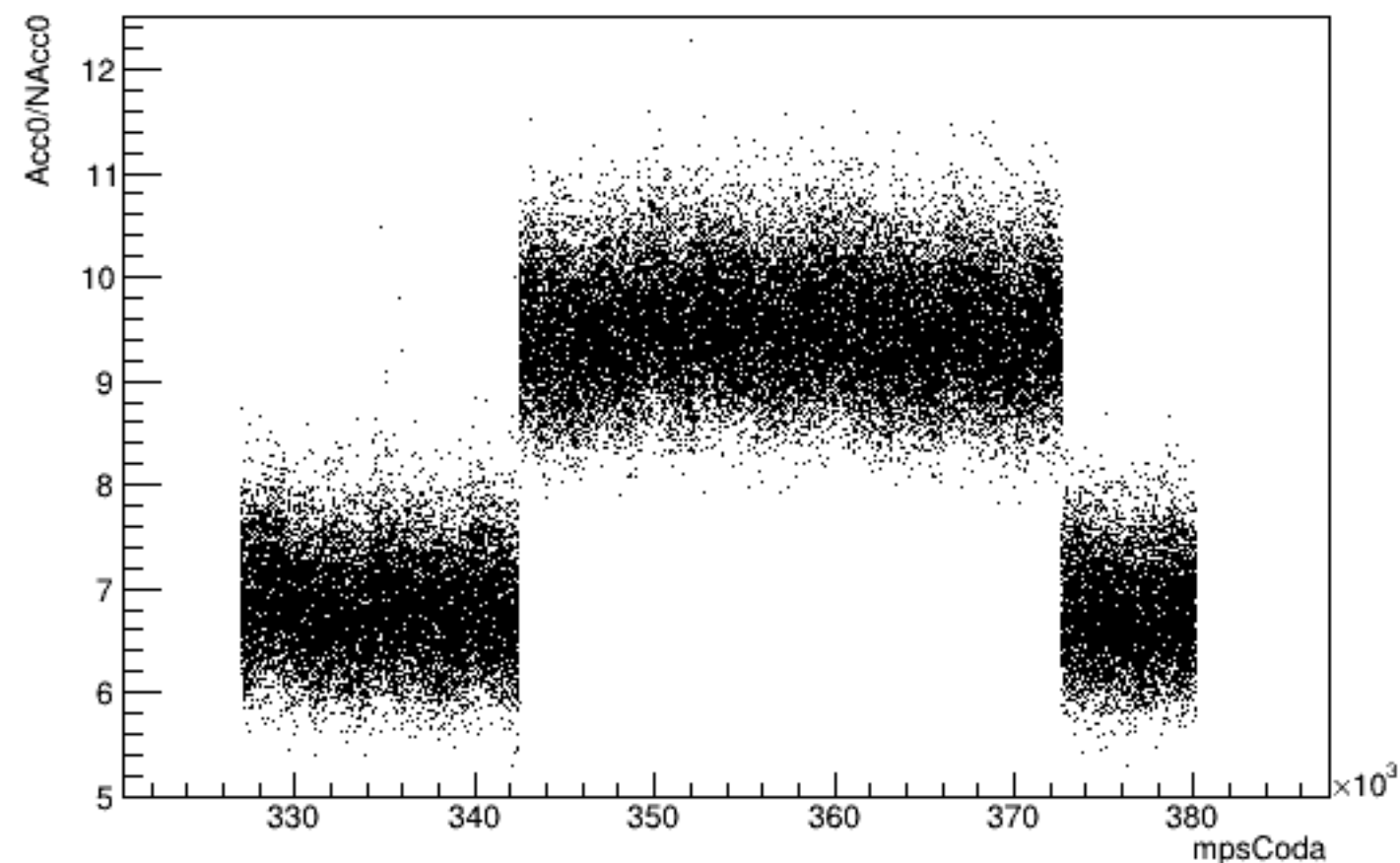
Mean: 0.0002 +/- 0.0019

Std Dev: 0.0576 +/- 0.0014

Run 4413 quartetwise, Asyms

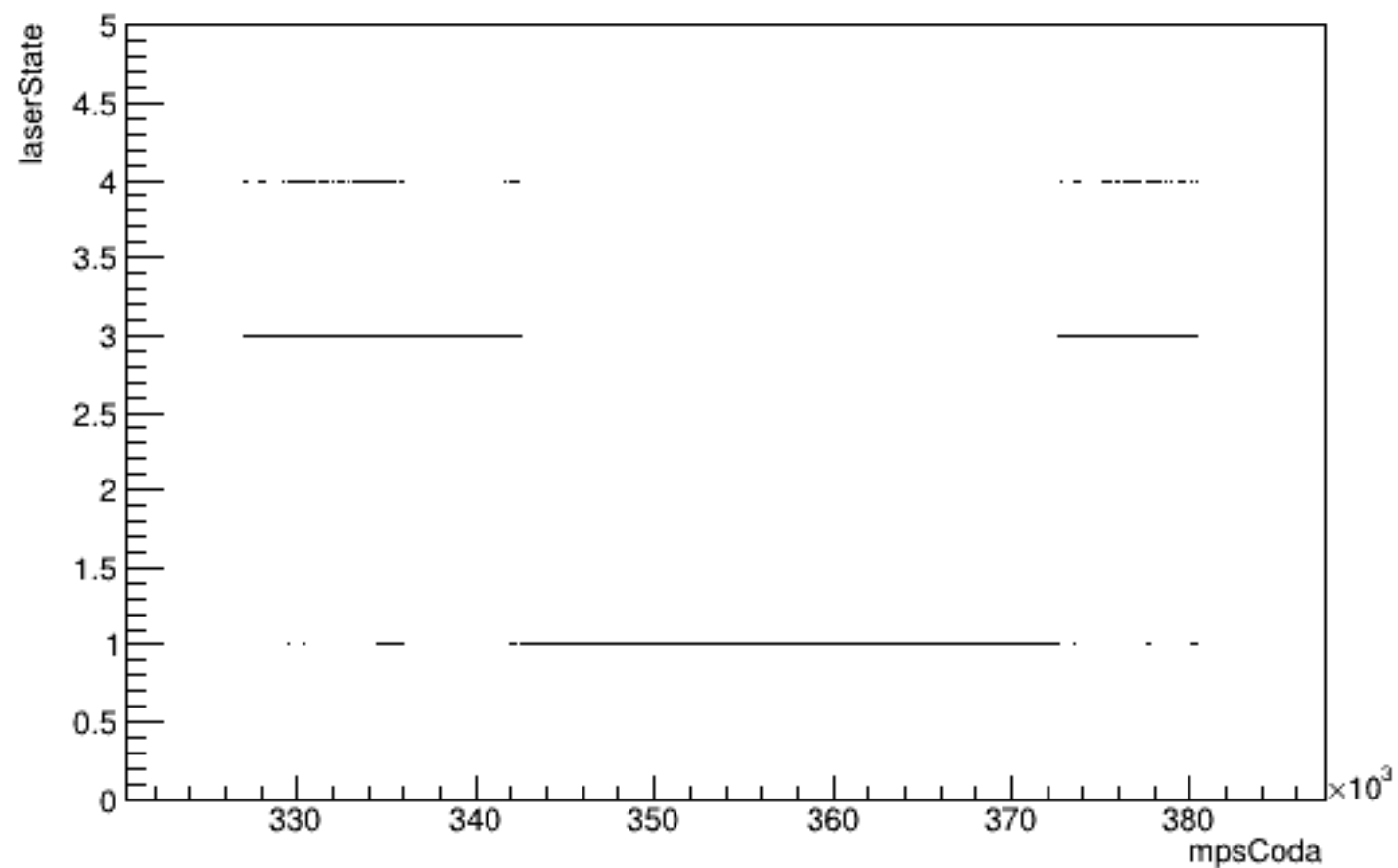


Acc0/NAcc0:mpsCoda (mpsCoda>=326937 && mpsCoda<=380480 && beamState==1)

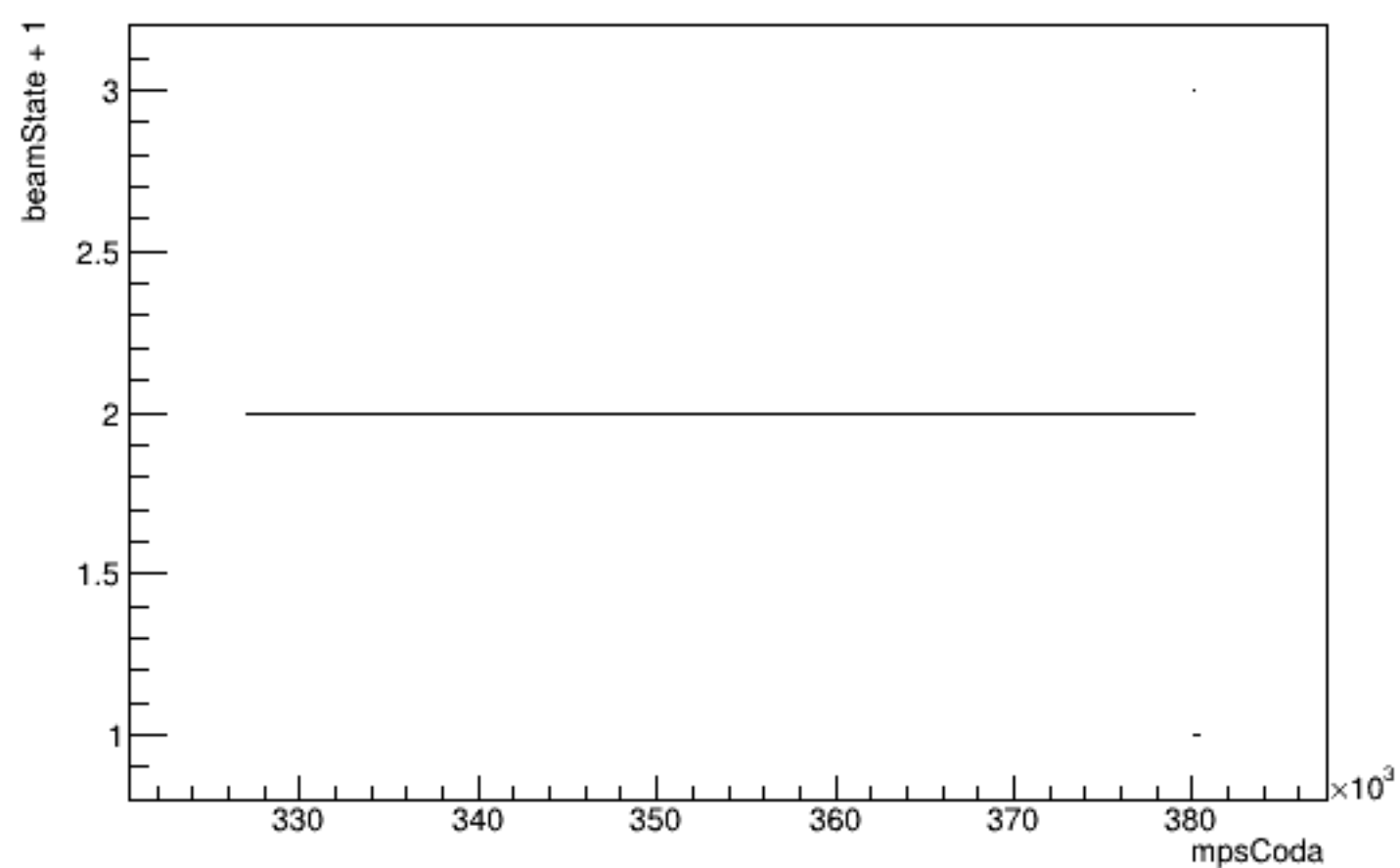




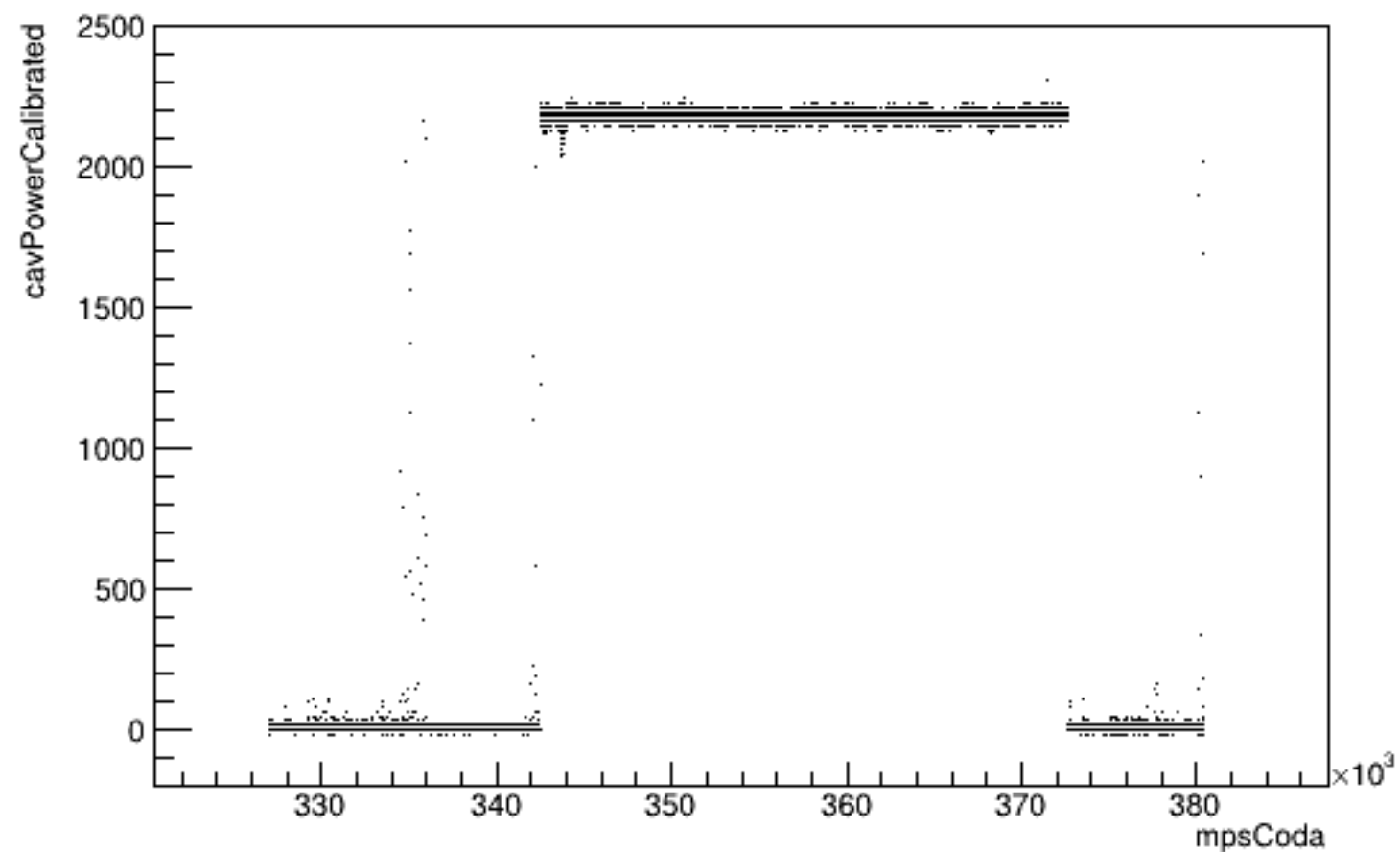
laserState:mpsCoda {mpsCoda&gt;=326937 &amp;&amp; mpsCoda&lt;=380480}



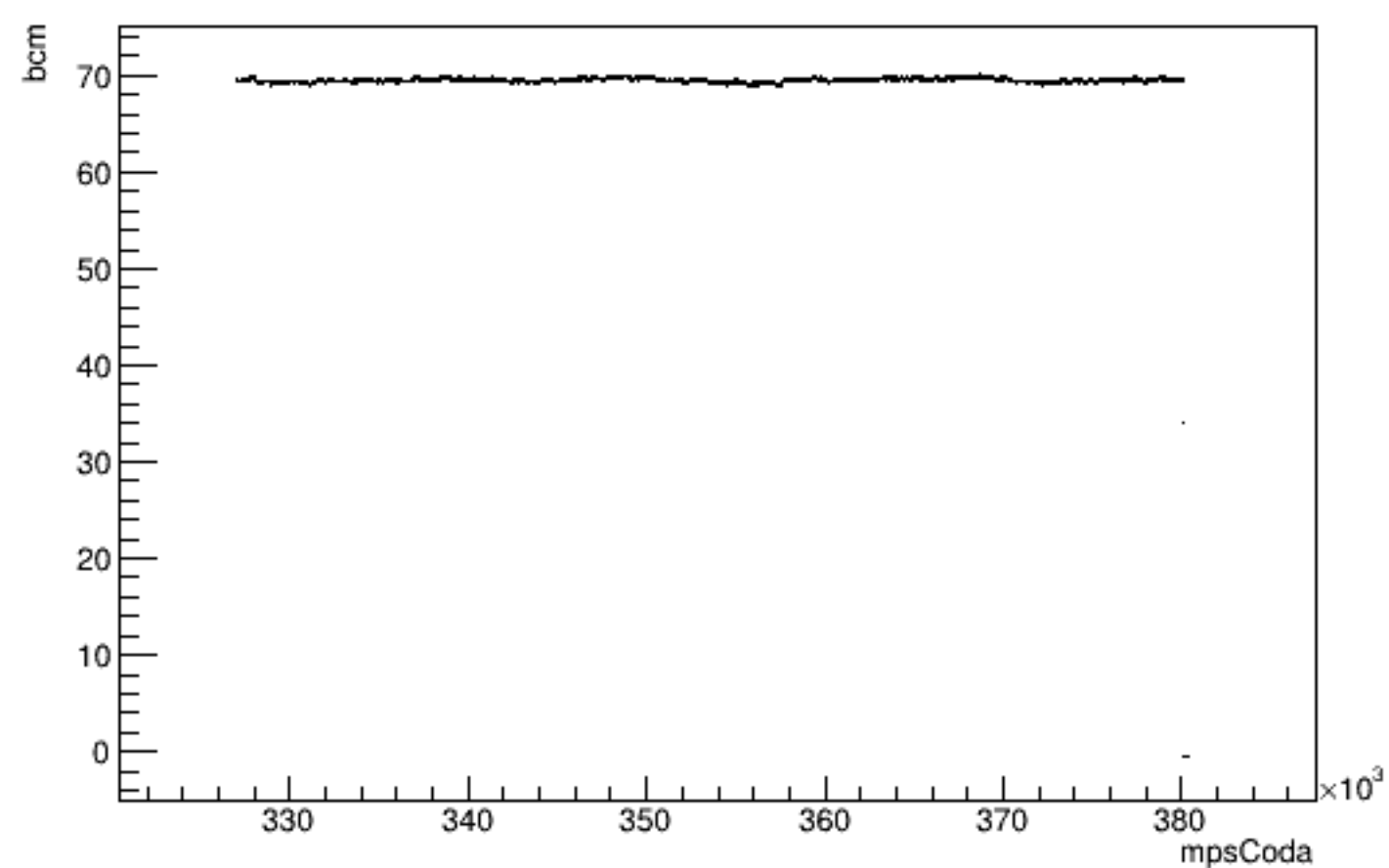
beamState + 1:mpsCoda {mpsCoda&gt;=326937 &amp;&amp; mpsCoda&lt;=380480}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=326937 &amp;&amp; mpsCoda&lt;=380480}



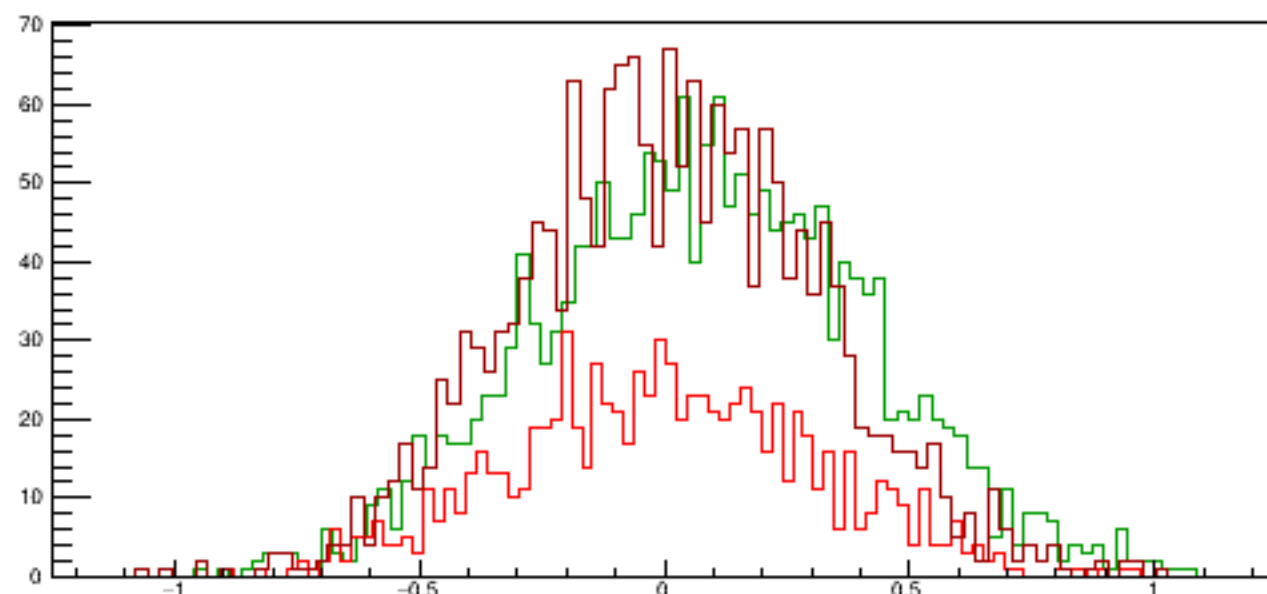
bcm:mpsCoda {mpsCoda&gt;=326937 &amp;&amp; mpsCoda&lt;=380480}



## Cycle 9, Diffs

| Entries: 884               | Entries: 1895              | Entries: 1853              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0012 +/- 0.0105    | Mean: 0.0772 +/- 0.0077    | Mean: 0.0091 +/- 0.0071    |
| Std Dev: 0.3110 +/- 0.0074 | Std Dev: 0.3349 +/- 0.0054 | Std Dev: 0.3054 +/- 0.0050 |

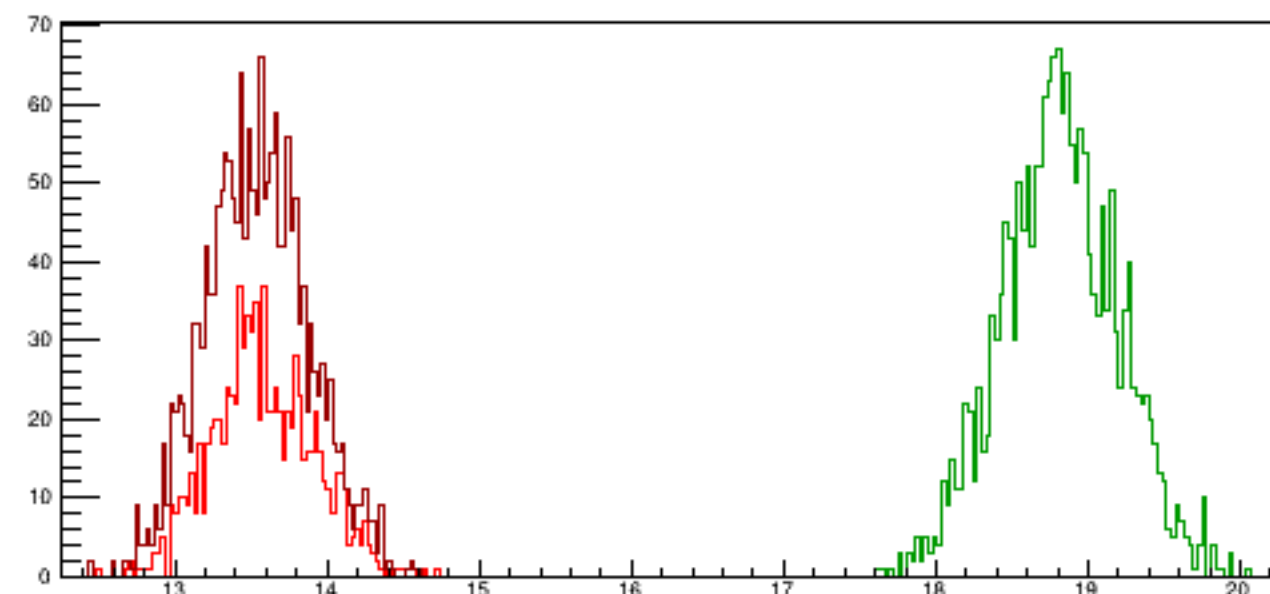
Run 4413 quartetwise, Diffs



## Cycle 9, Sums

| Entries: 884               | Entries: 1895              | Entries: 1853              |
|----------------------------|----------------------------|----------------------------|
| Mean: 13.5771 +/- 0.0113   | Mean: 18.8178 +/- 0.0088   | Mean: 13.5350 +/- 0.0079   |
| Std Dev: 0.3356 +/- 0.0080 | Std Dev: 0.3830 +/- 0.0062 | Std Dev: 0.3410 +/- 0.0056 |

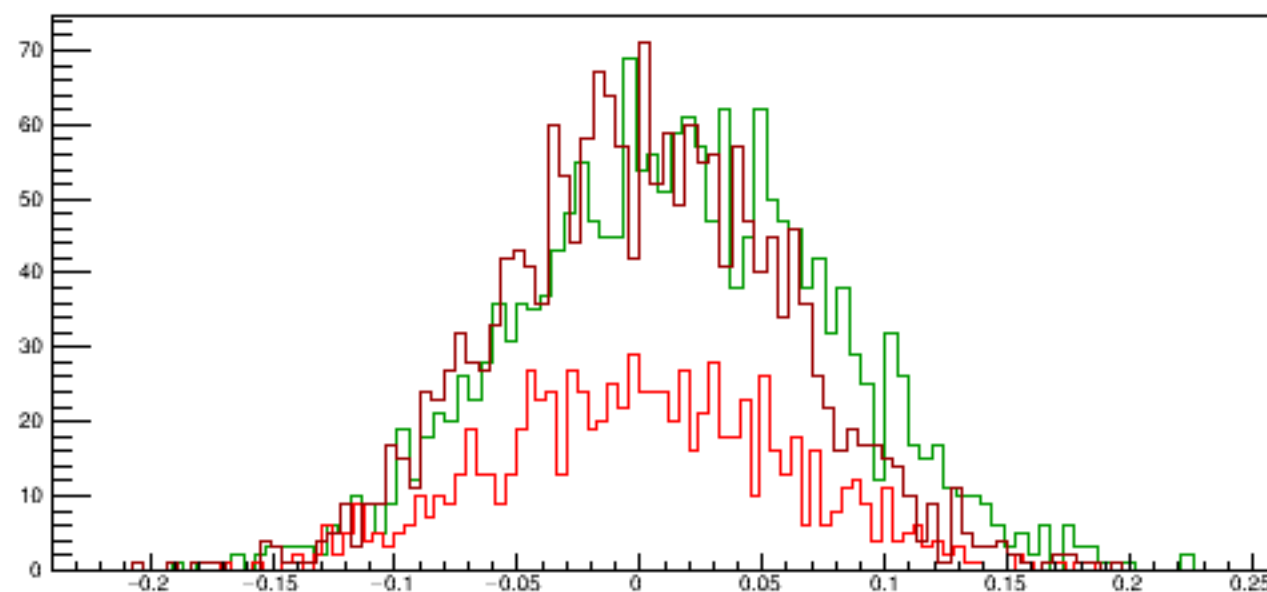
Run 4413 quartetwise, Sums



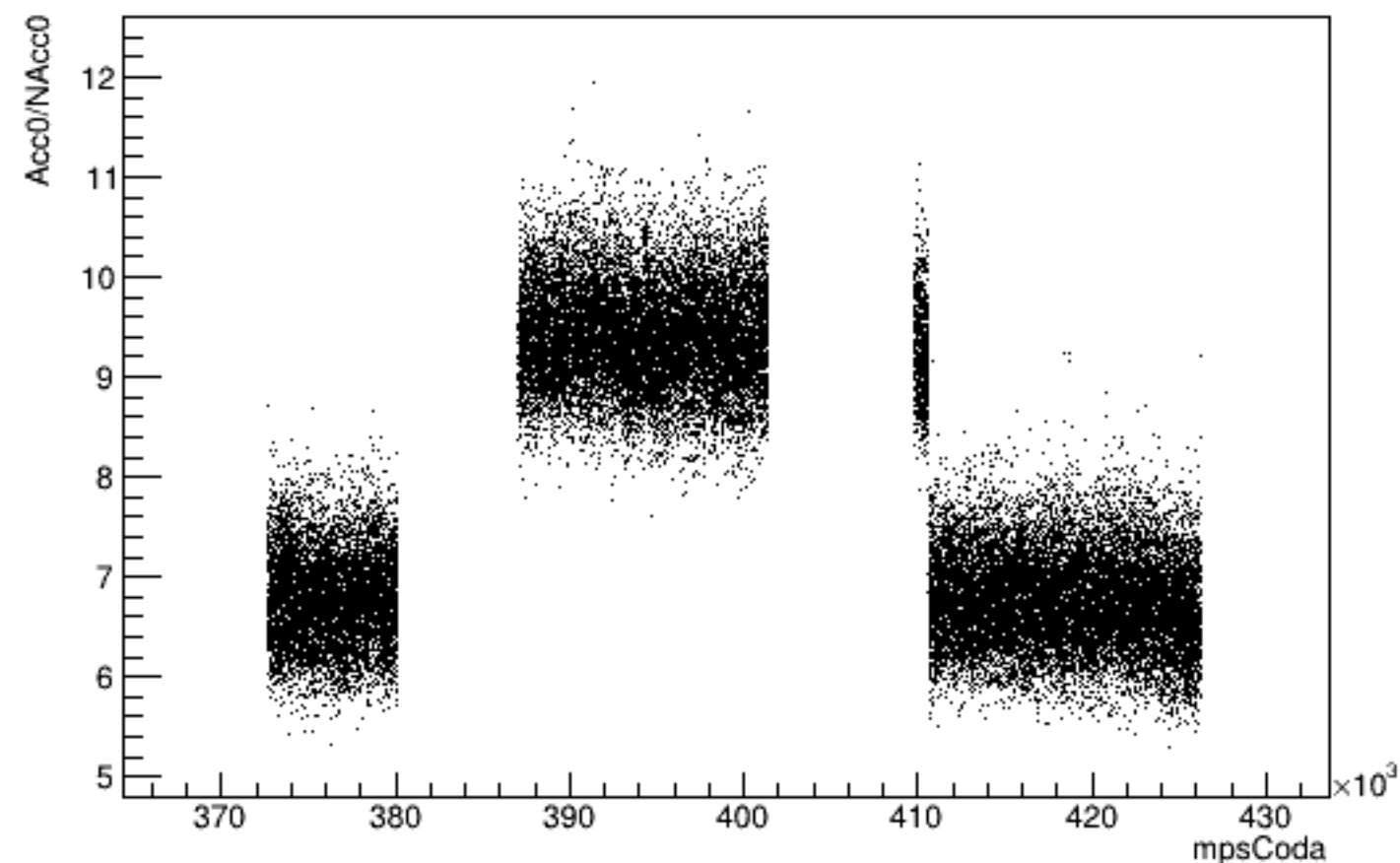
## Cycle 9, Asyms

| Entries: 884               | Entries: 1895              | Entries: 1853              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0002 +/- 0.0020    | Mean: 0.0147 +/- 0.0015    | Mean: 0.0017 +/- 0.0013    |
| Std Dev: 0.0591 +/- 0.0014 | Std Dev: 0.0638 +/- 0.0010 | Std Dev: 0.0580 +/- 0.0010 |

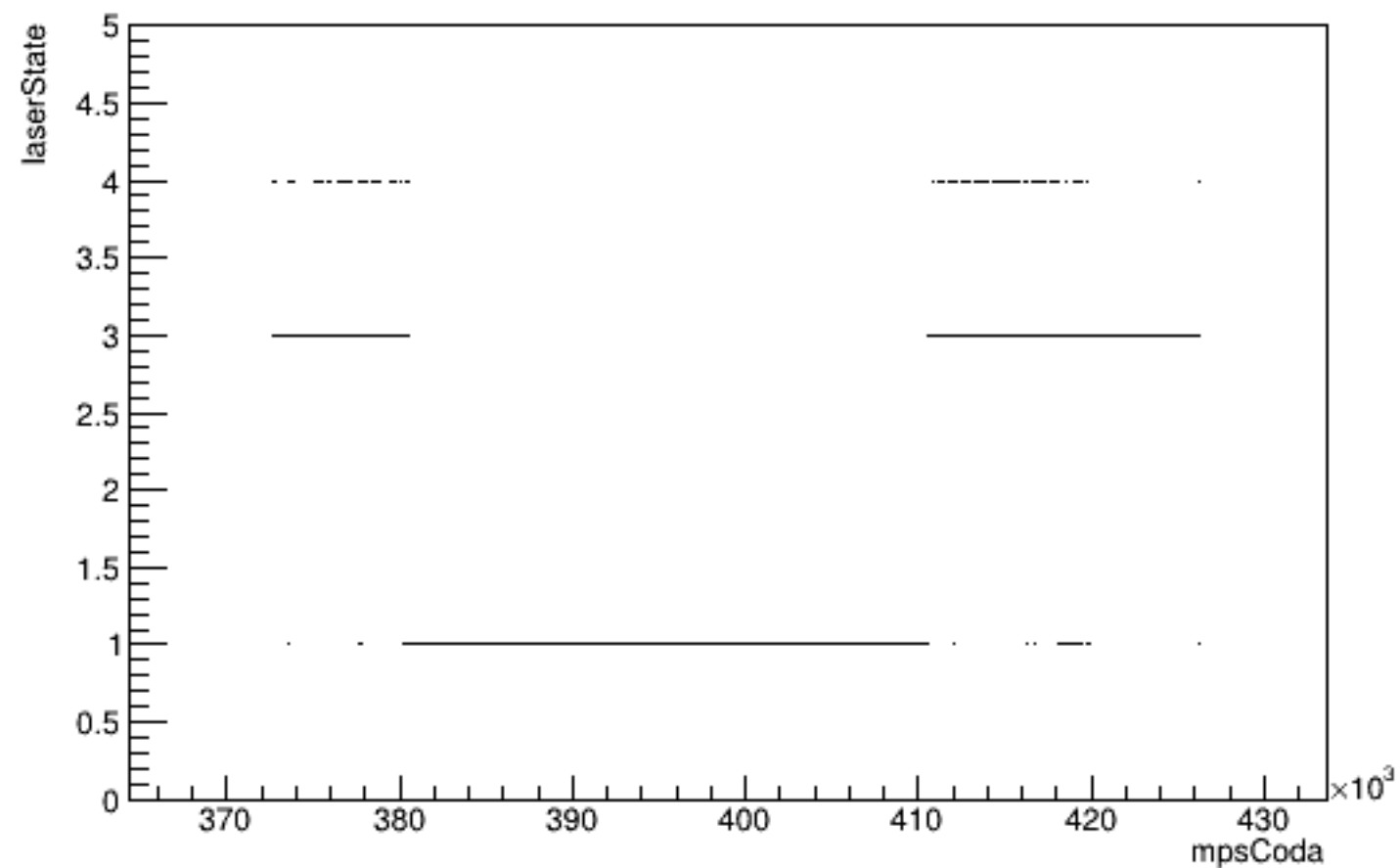
Run 4413 quartetwise, Asyms



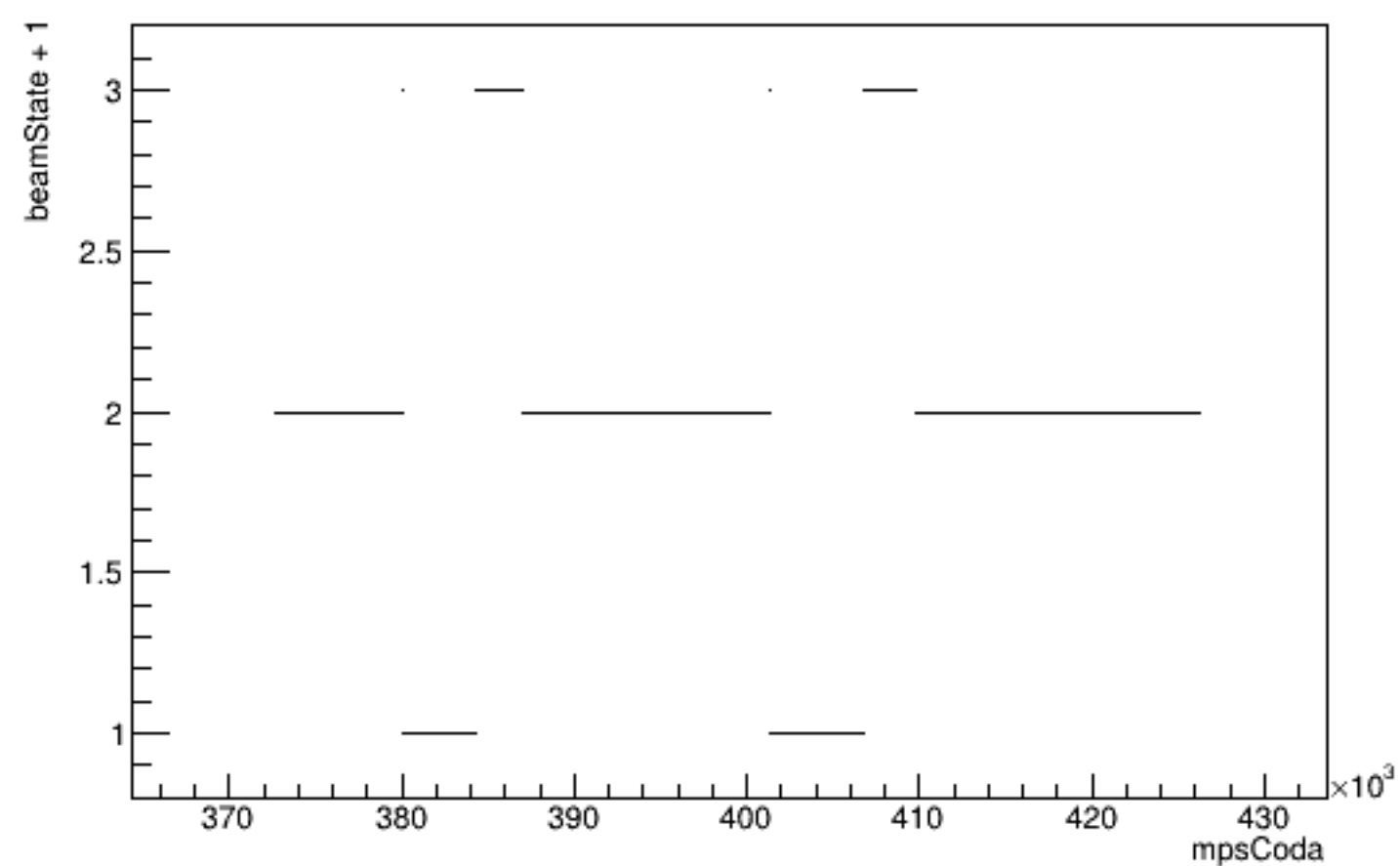
Acc0/NAcc0:mpsCoda (mpsCoda>=372673 && mpsCoda<=426224 && beamState==1)



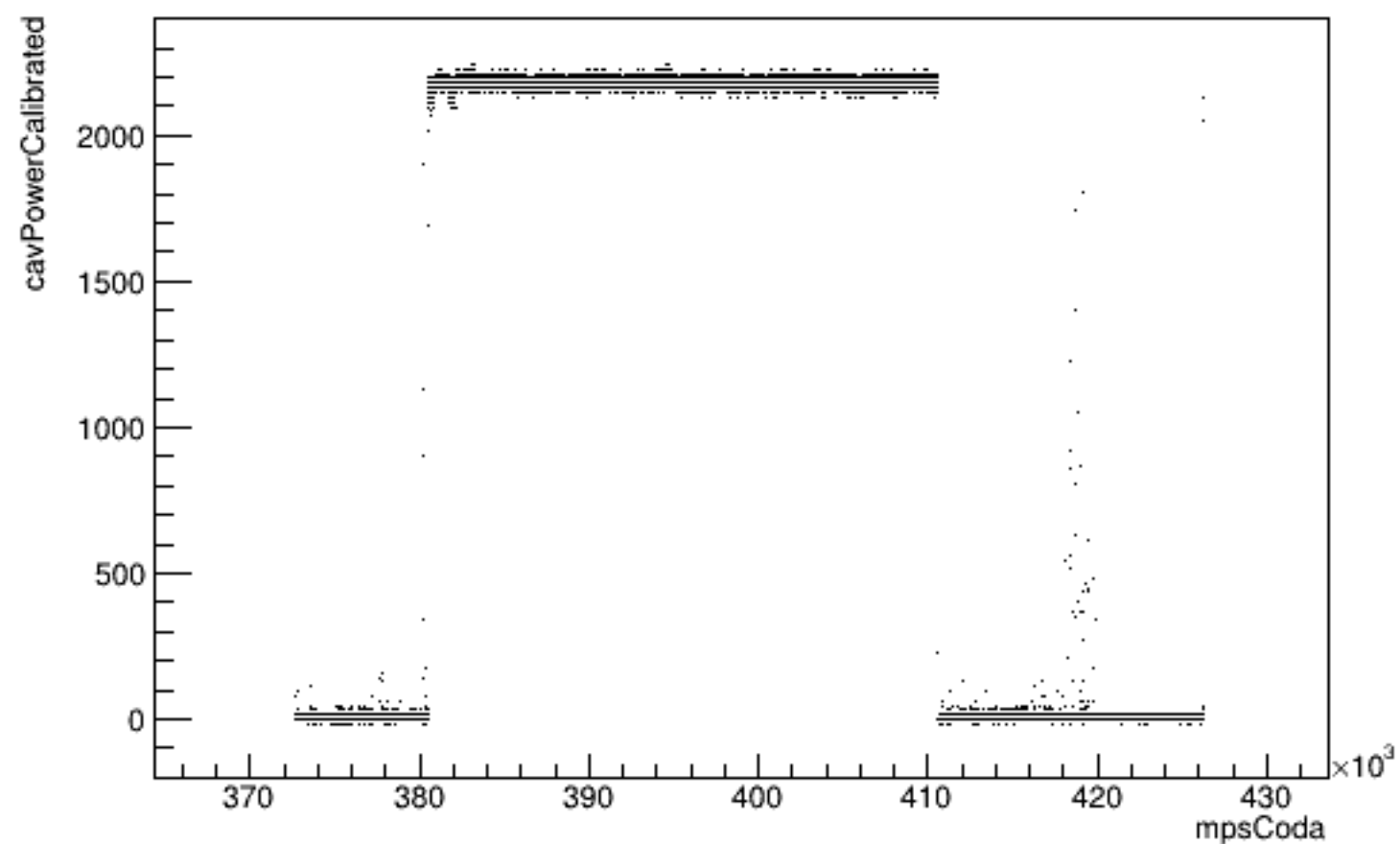
laserState:mpsCoda {mpsCoda&gt;=372673 &amp;&amp; mpsCoda&lt;=426224}



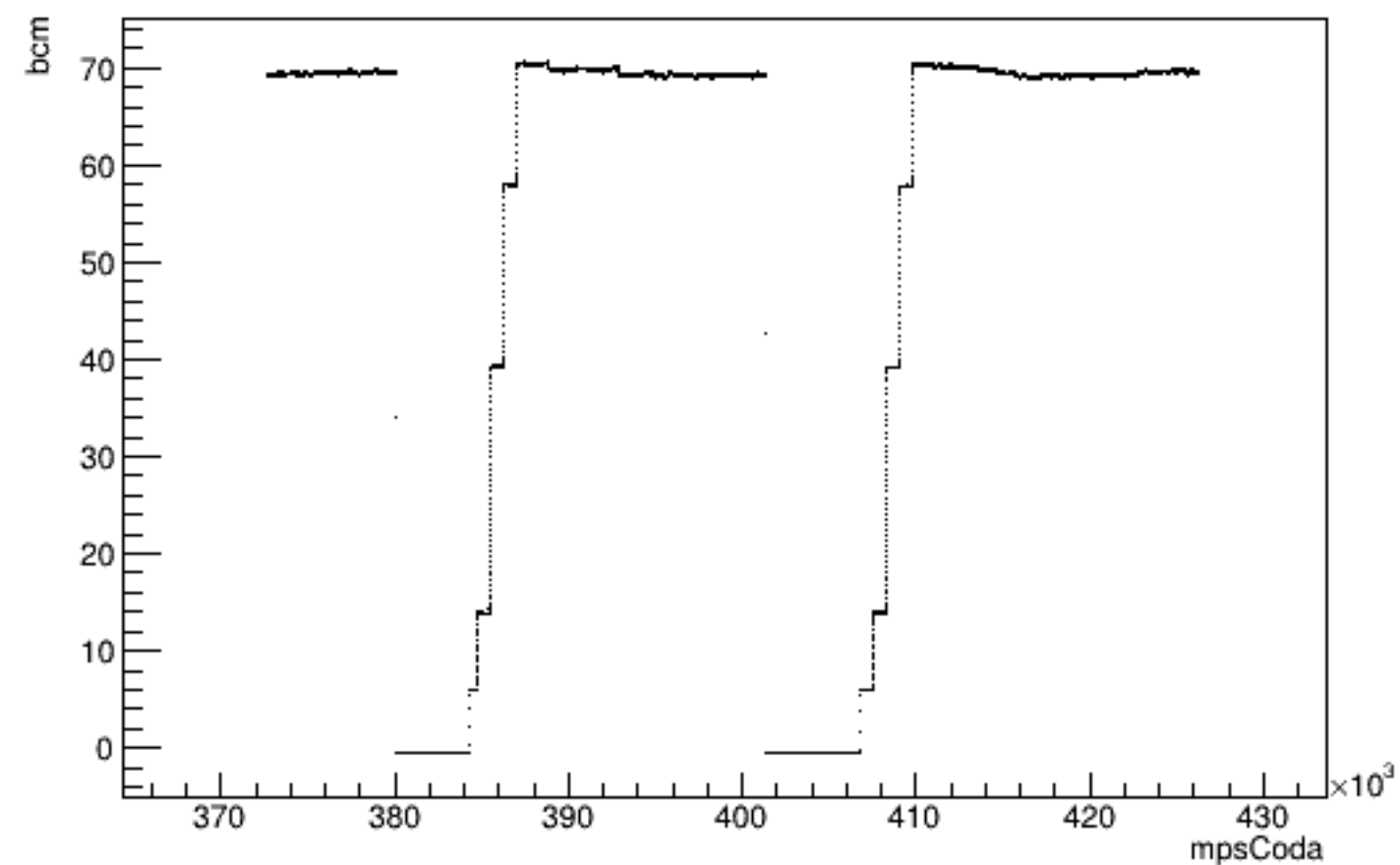
beamState + 1:mpsCoda {mpsCoda&gt;=372673 &amp;&amp; mpsCoda&lt;=426224}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=372673 &amp;&amp; mpsCoda&lt;=426224}



bcm:mpsCoda {mpsCoda&gt;=372673 &amp;&amp; mpsCoda&lt;=426224}



## Cycle 10, Diffs

Entries: 1853

Mean: 0.0091 +/- 0.0071

Std Dev: 0.3054 +/- 0.0050

Entries: 3560

Mean: 0.0873 +/- 0.0057

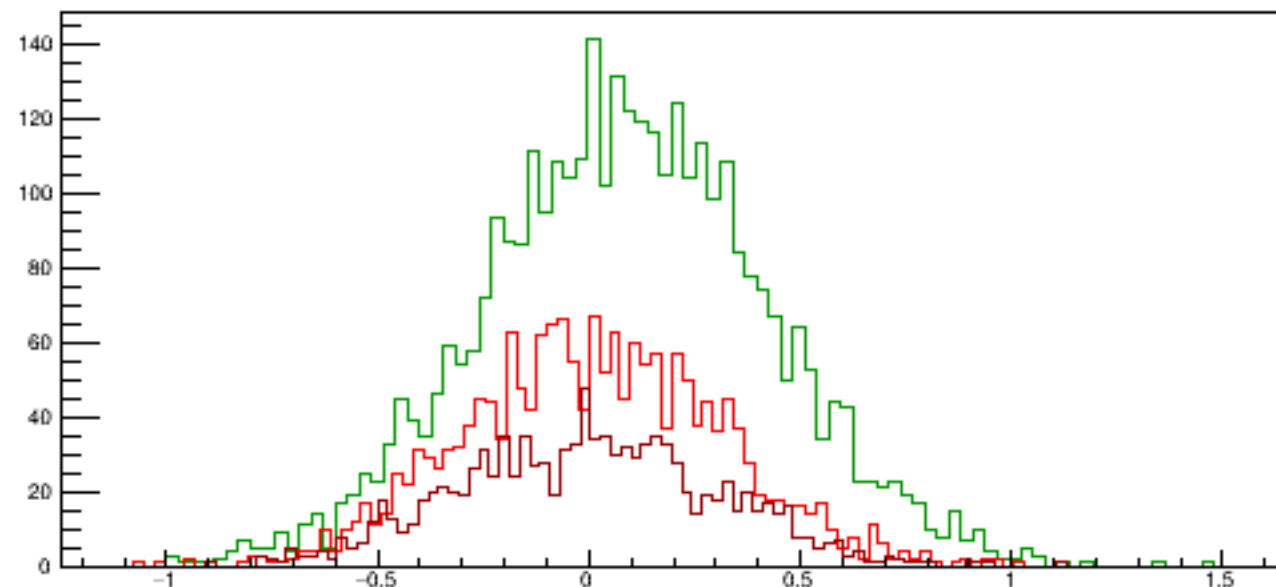
Std Dev: 0.3383 +/- 0.0040

Entries: 1100

Mean: -0.0055 +/- 0.0092

Std Dev: 0.3058 +/- 0.0065

Run 4413 quartetwise, Diffs



## Cycle 10, Sums

Entries: 1853

Mean: 13.5350 +/- 0.0079

Std Dev: 0.3410 +/- 0.0056

Entries: 3560

Mean: 18.7040 +/- 0.0066

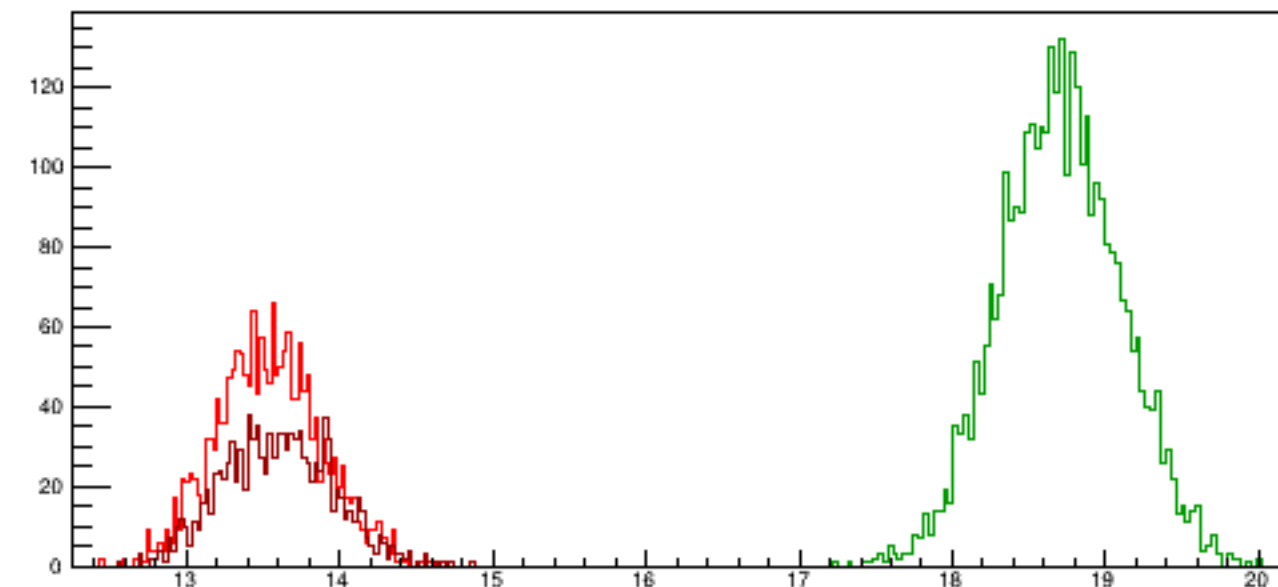
Std Dev: 0.3957 +/- 0.0047

Entries: 1100

Mean: 13.5969 +/- 0.0108

Std Dev: 0.3567 +/- 0.0076

Run 4413 quartetwise, Sums



Acc0/NAcc0:mpsCoda (mpsCoda>=410617 && mpsCoda<=472536 && beamState==1)

## Cycle 10, Asyms

Entries: 1853

Mean: 0.0018 +/- 0.0014

Std Dev: 0.0594 +/- 0.0010

Entries: 3560

Mean: 0.0170 +/- 0.0011

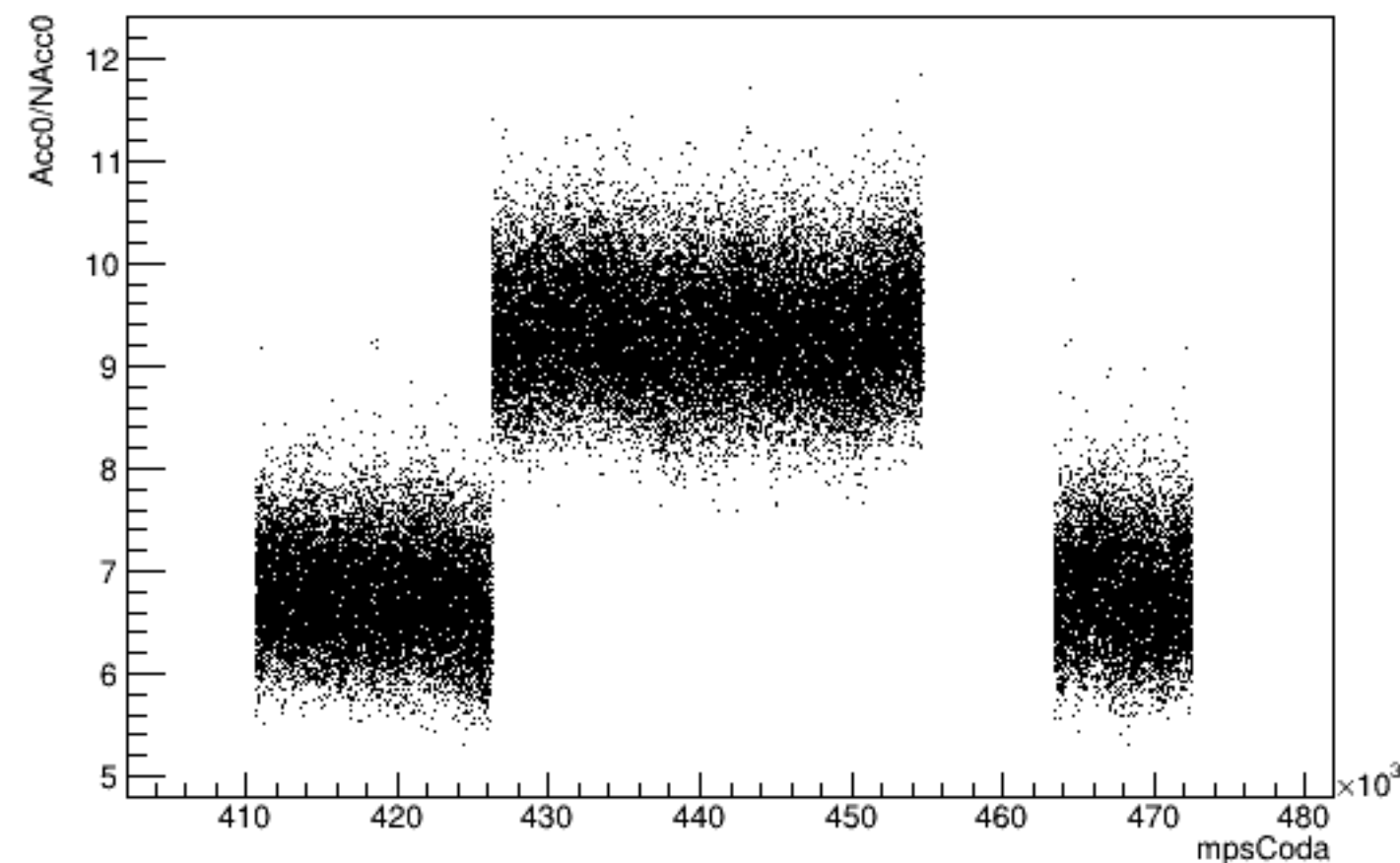
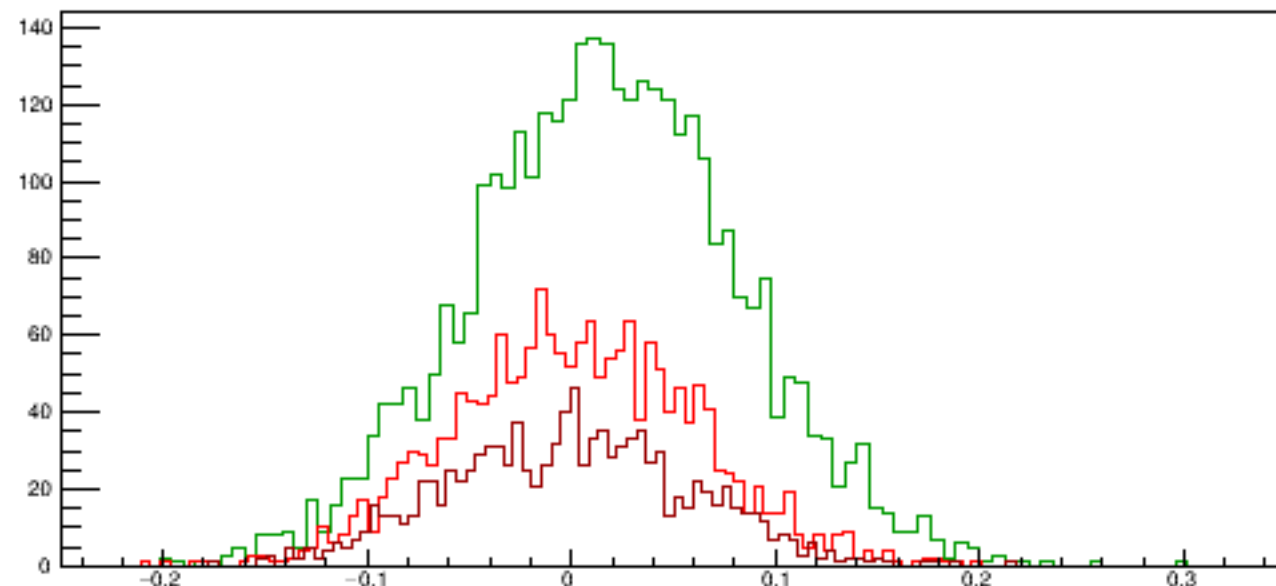
Std Dev: 0.0659 +/- 0.0008

Entries: 1100

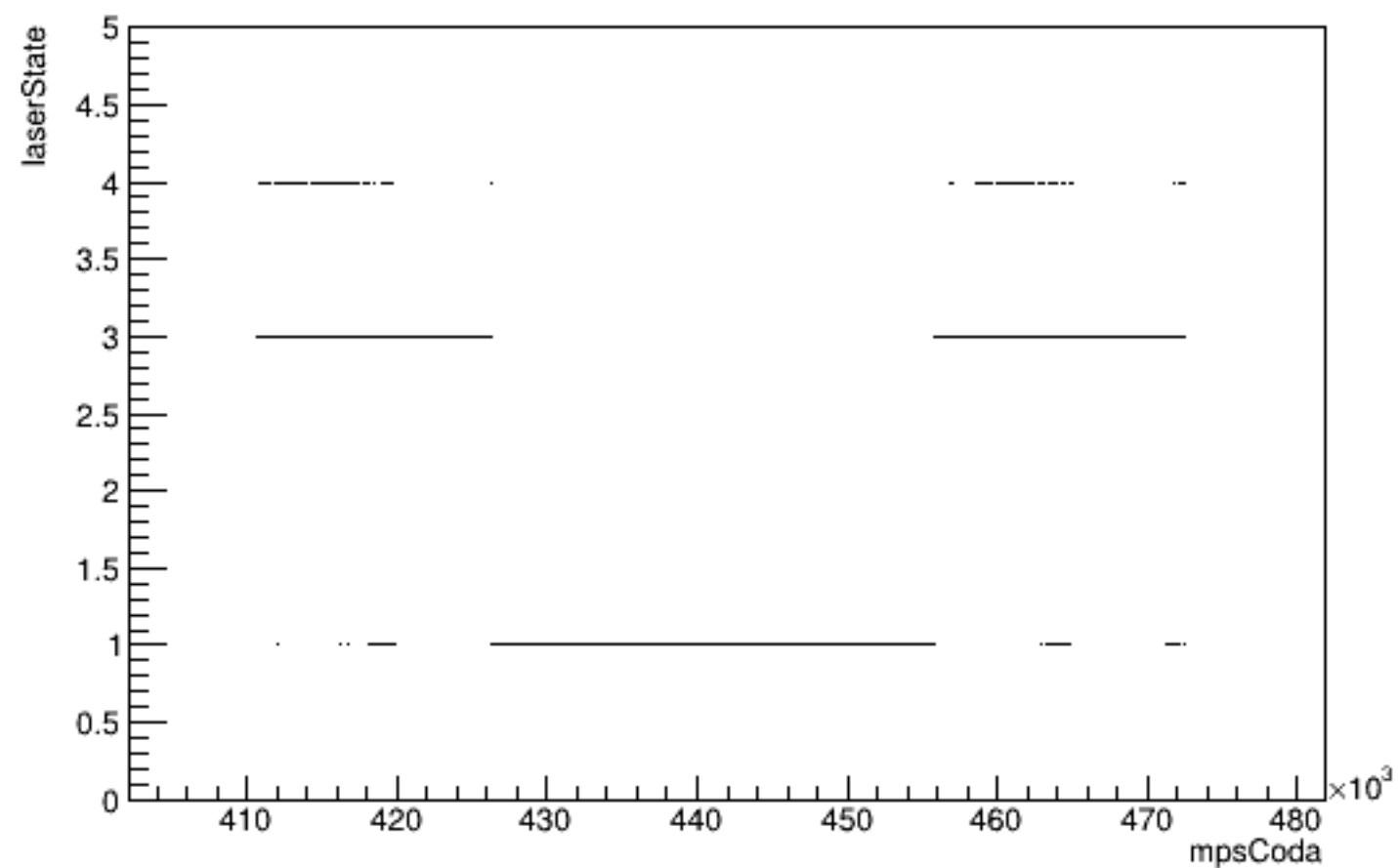
Mean: -0.0011 +/- 0.0018

Std Dev: 0.0595 +/- 0.0013

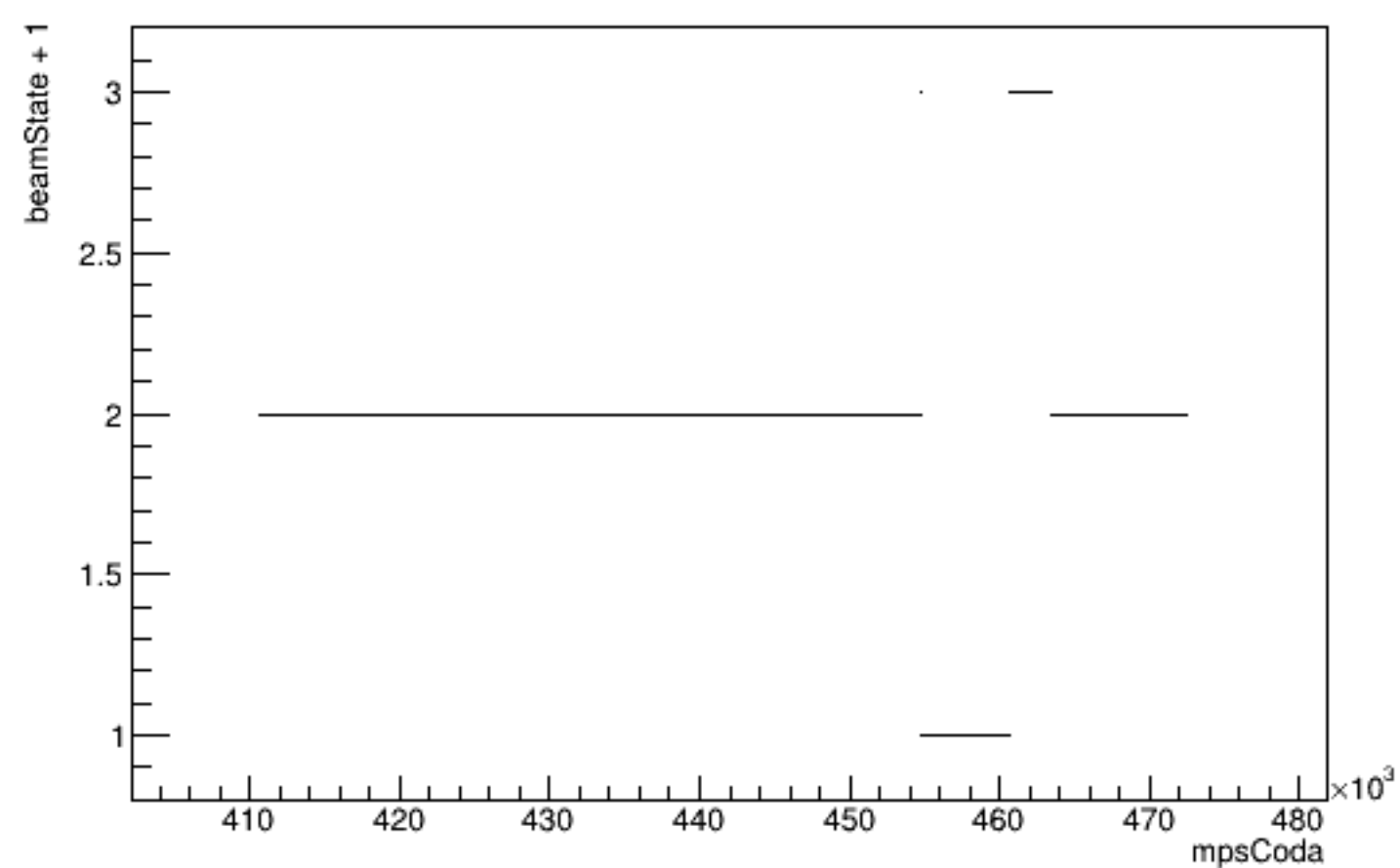
Run 4413 quartetwise, Asyms



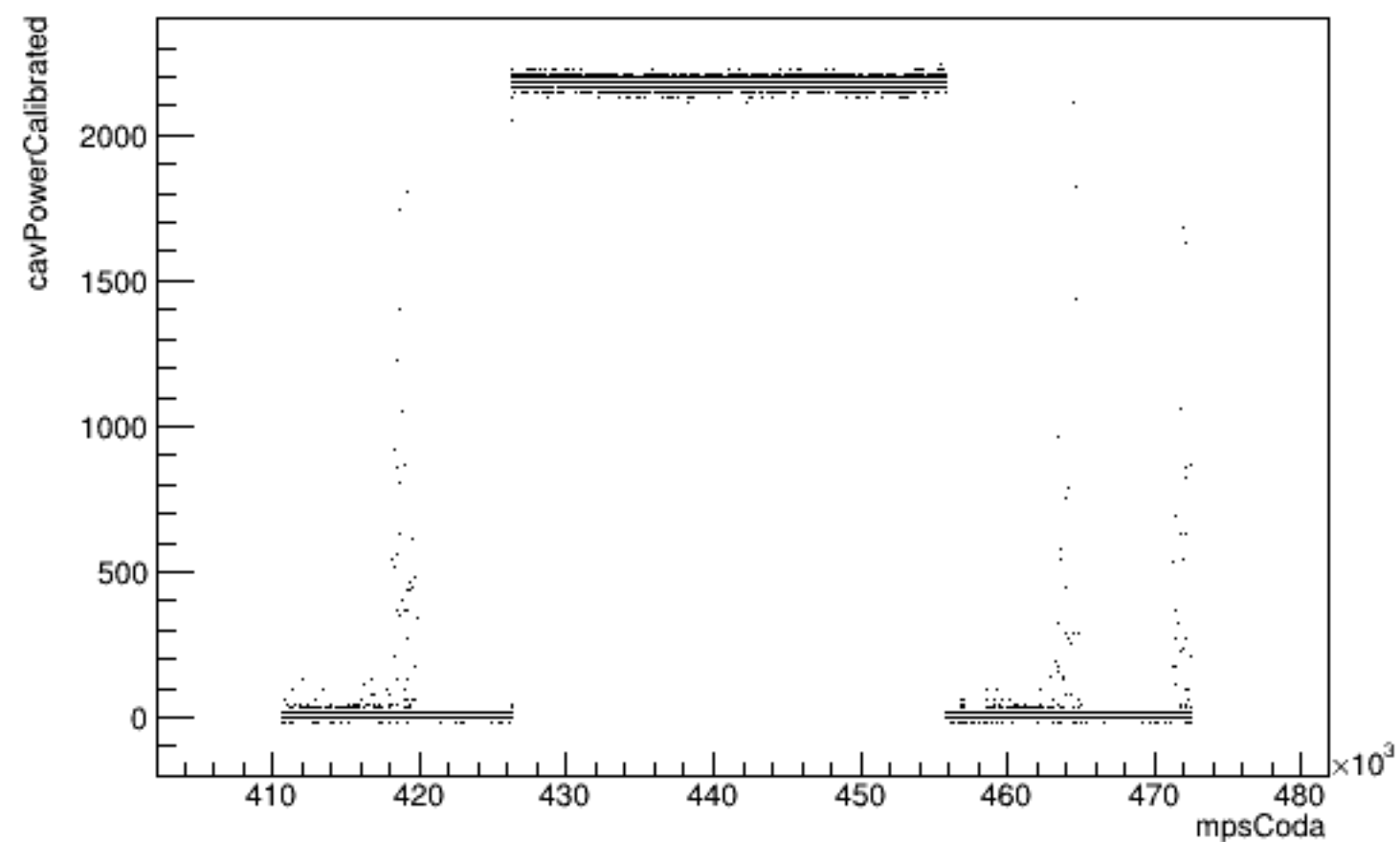
laserState:mpsCoda {mpsCoda&gt;=410617 &amp;&amp; mpsCoda&lt;=472536}



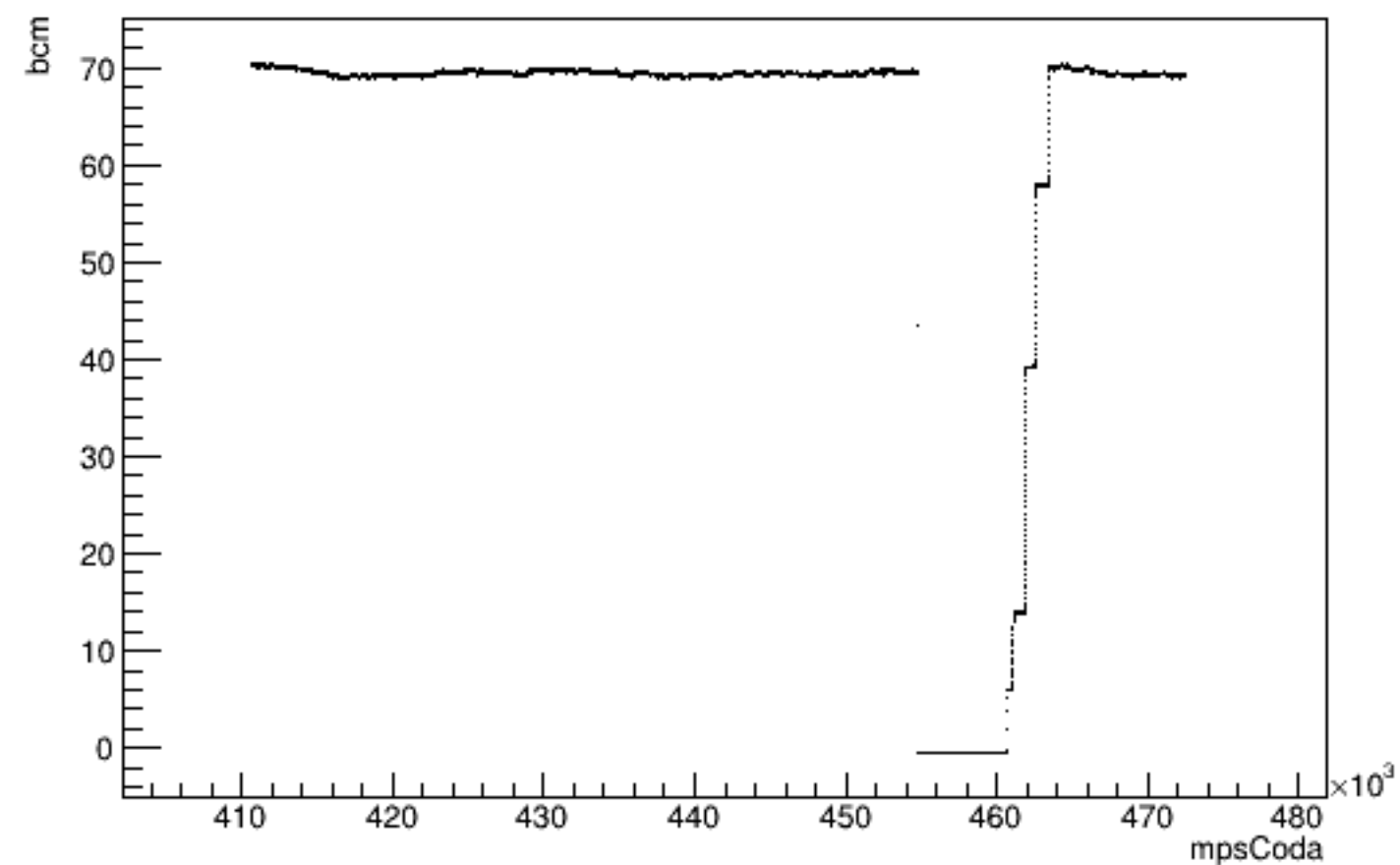
beamState + 1:mpsCoda {mpsCoda&gt;=410617 &amp;&amp; mpsCoda&lt;=472536}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=410617 &amp;&amp; mpsCoda&lt;=472536}



bcm:mpsCoda {mpsCoda&gt;=410617 &amp;&amp; mpsCoda&lt;=472536}



## Cycle 11, Diffs

Entries: 1100

Mean: -0.0055 +/- 0.0092

Std Dev: 0.3058 +/- 0.0065

Entries: 3751

Mean: 0.0788 +/- 0.0056

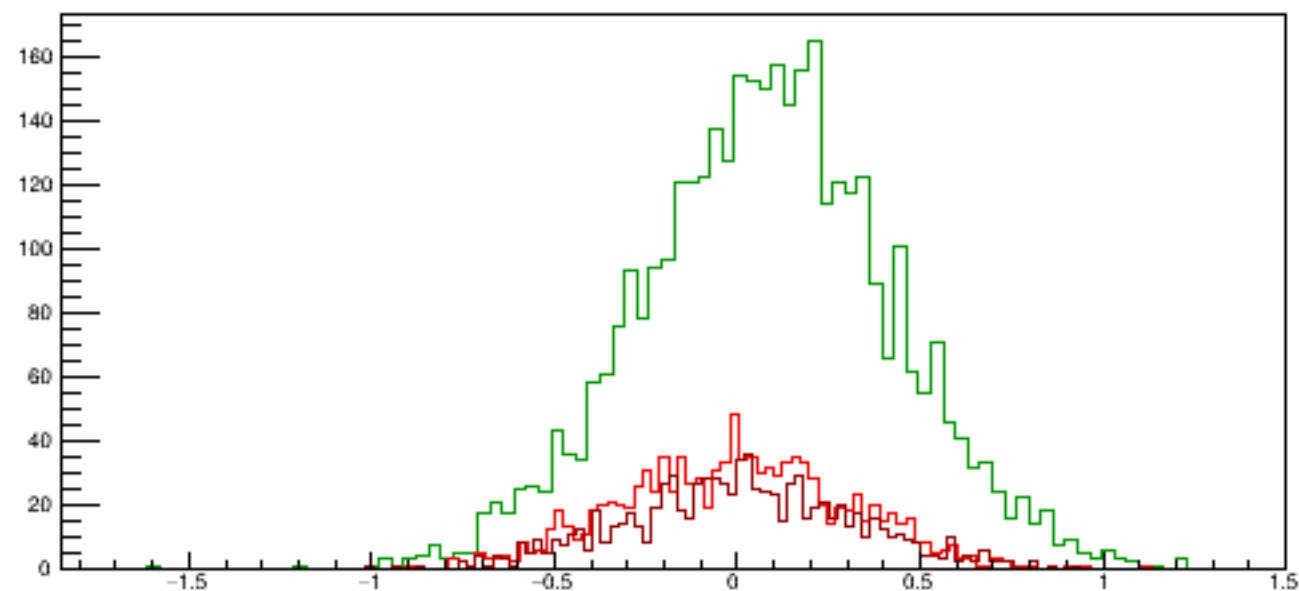
Std Dev: 0.3405 +/- 0.0039

Entries: 880

Mean: 0.0033 +/- 0.0104

Std Dev: 0.3083 +/- 0.0073

Run 4413 quartetwise, Diffs



## Cycle 11, Sums

Entries: 1100

Mean: 13.5969 +/- 0.0108

Std Dev: 0.3567 +/- 0.0076

Entries: 3751

Mean: 18.6987 +/- 0.0065

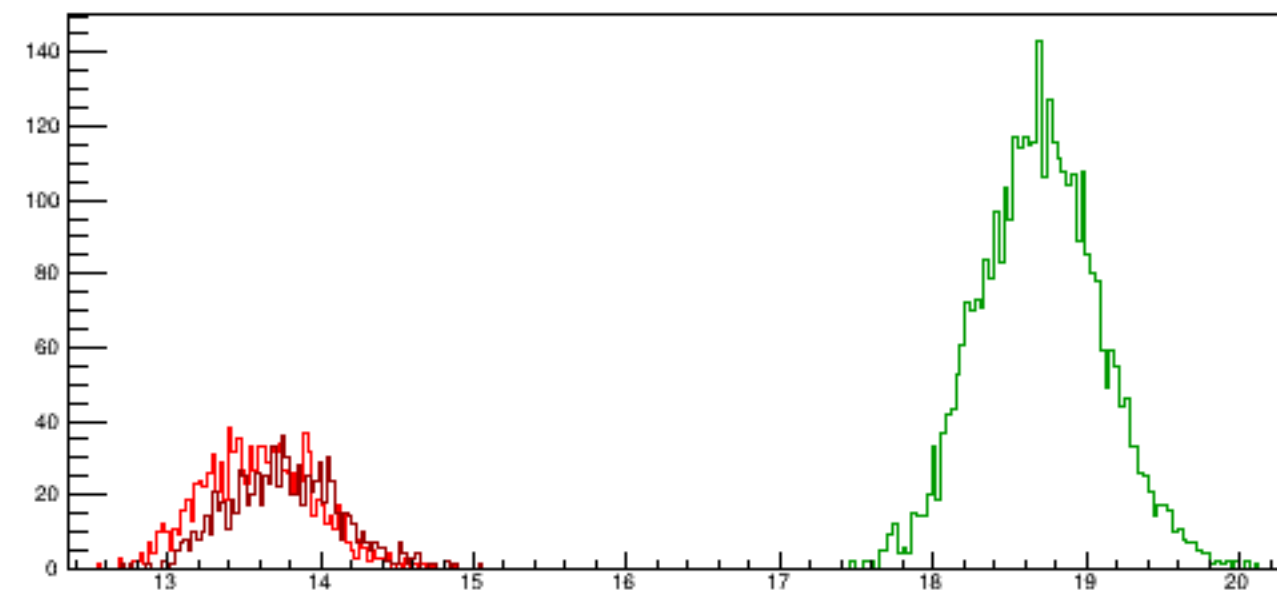
Std Dev: 0.3953 +/- 0.0046

Entries: 880

Mean: 13.7631 +/- 0.0120

Std Dev: 0.3545 +/- 0.0084

Run 4413 quartetwise, Sums



Acc0/NAcc0:mpsCoda (mpsCoda>=455857 && mpsCoda<=510000 && beamState==1)

## Cycle 11, Asyms

Entries: 1100

Mean: -0.0011 +/- 0.0018

Std Dev: 0.0609 +/- 0.0013

Entries: 3751

Mean: 0.0157 +/- 0.0011

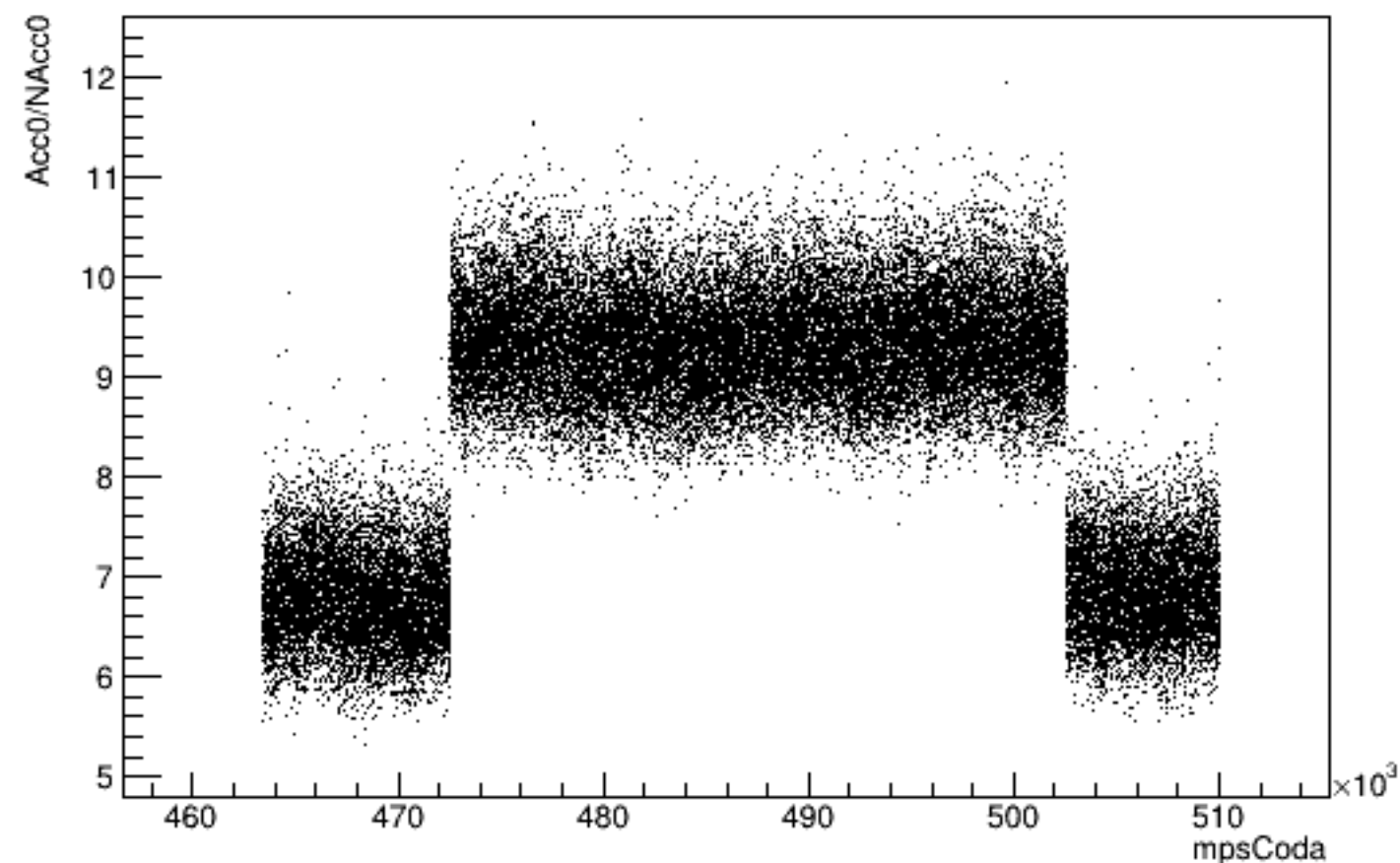
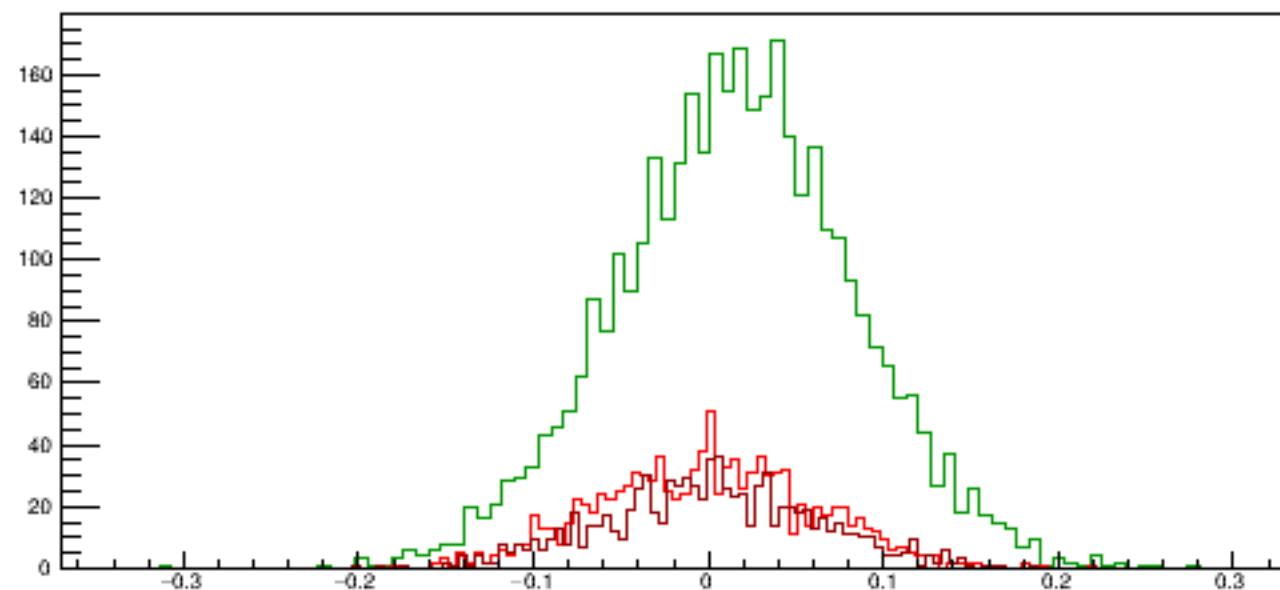
Std Dev: 0.0680 +/- 0.0008

Entries: 880

Mean: 0.0007 +/- 0.0021

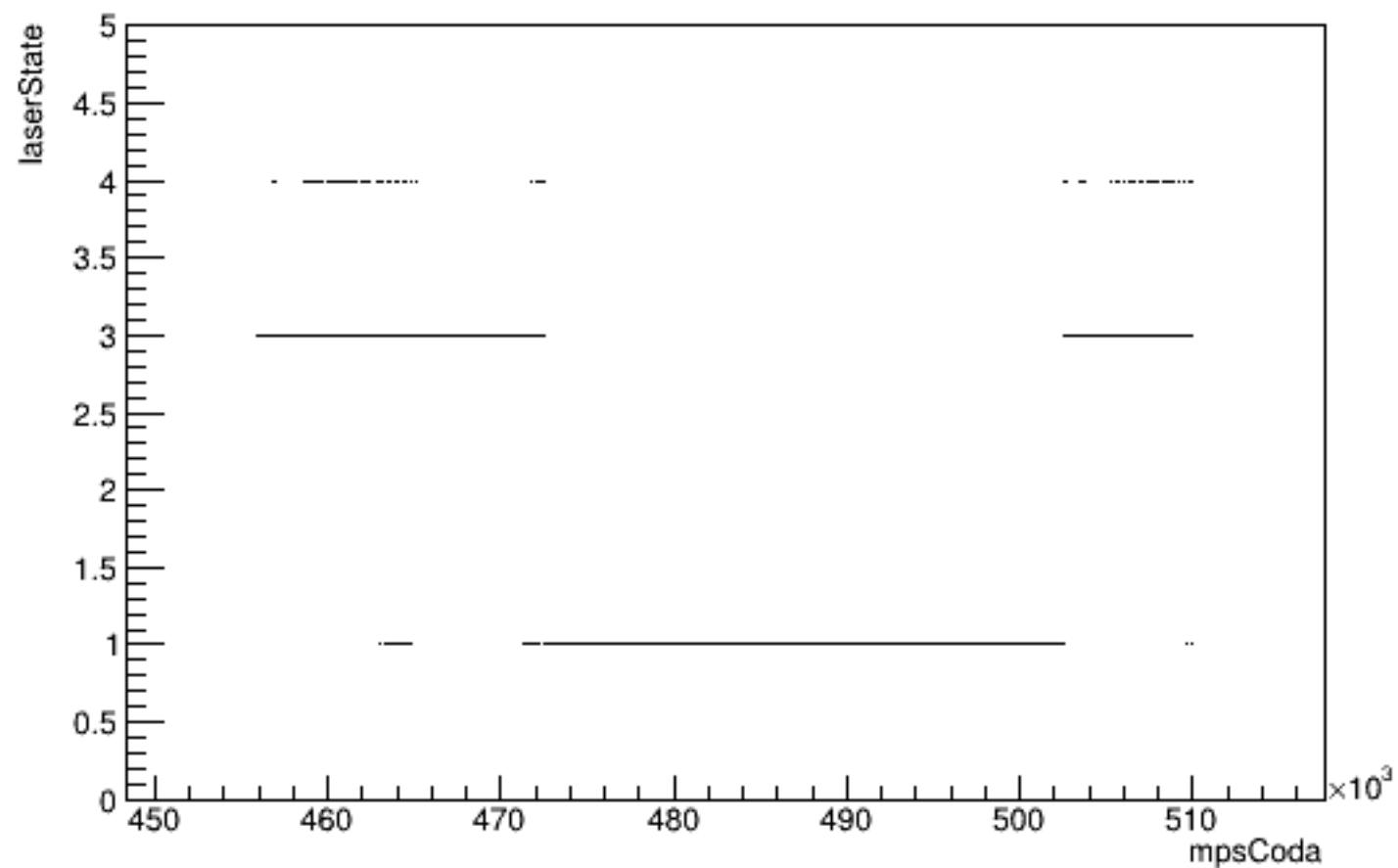
Std Dev: 0.0614 +/- 0.0015

Run 4413 quartetwise, Asyms

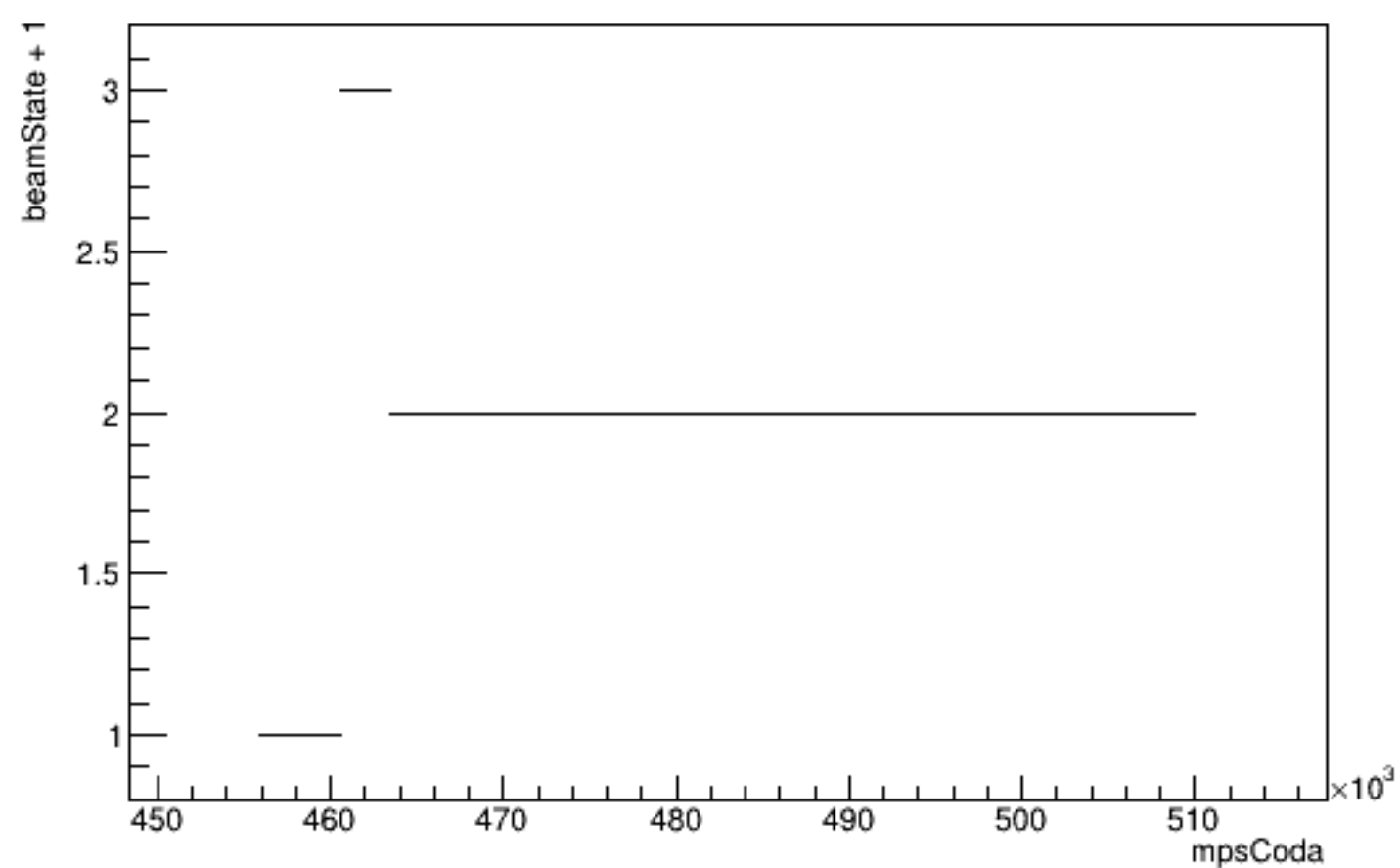




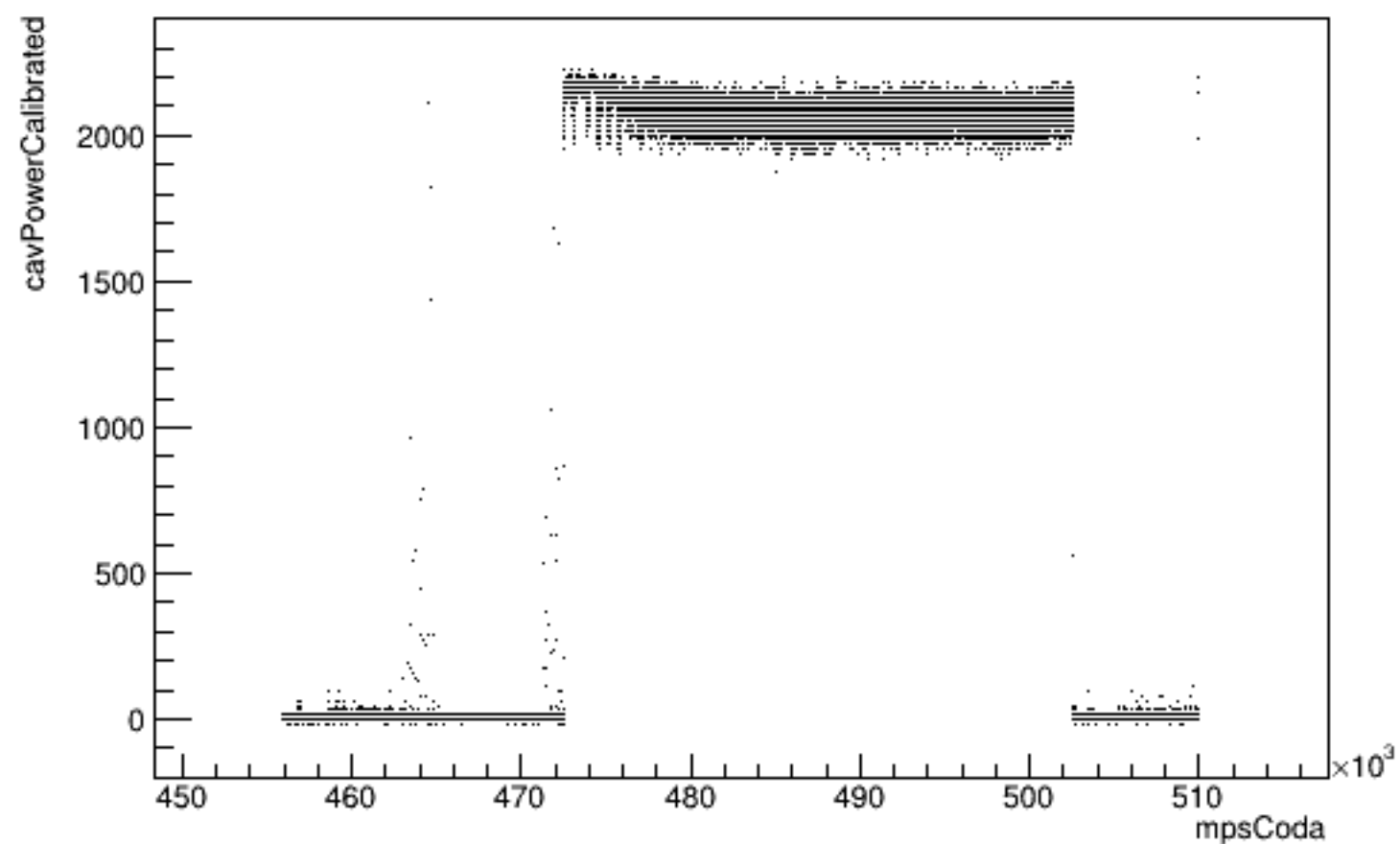
laserState:mpsCoda {mpsCoda&gt;=455857 &amp;&amp; mpsCoda&lt;=510000}



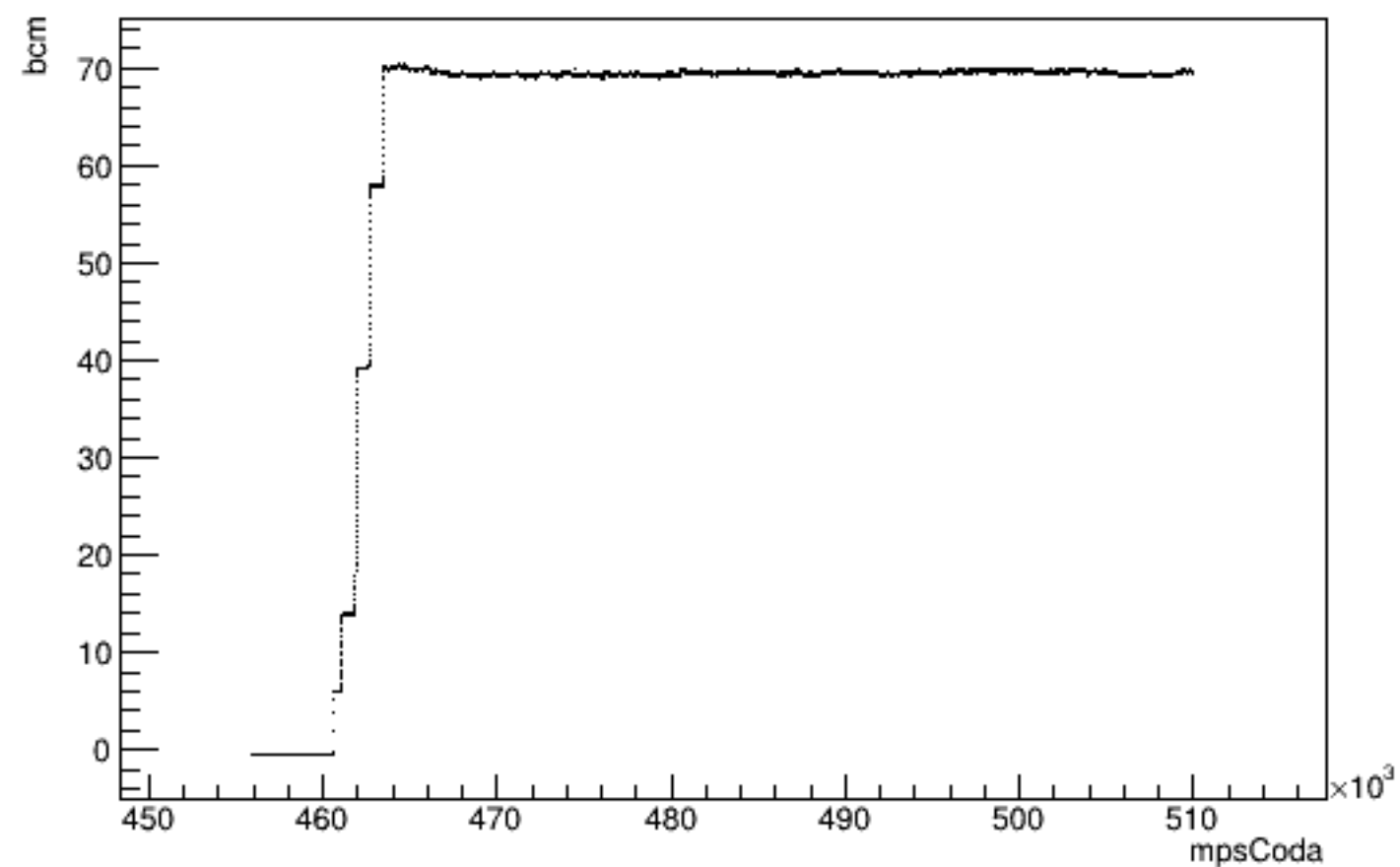
beamState + 1:mpsCoda {mpsCoda&gt;=455857 &amp;&amp; mpsCoda&lt;=510000}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=455857 &amp;&amp; mpsCoda&lt;=510000}



bcm:mpsCoda {mpsCoda&gt;=455857 &amp;&amp; mpsCoda&lt;=510000}

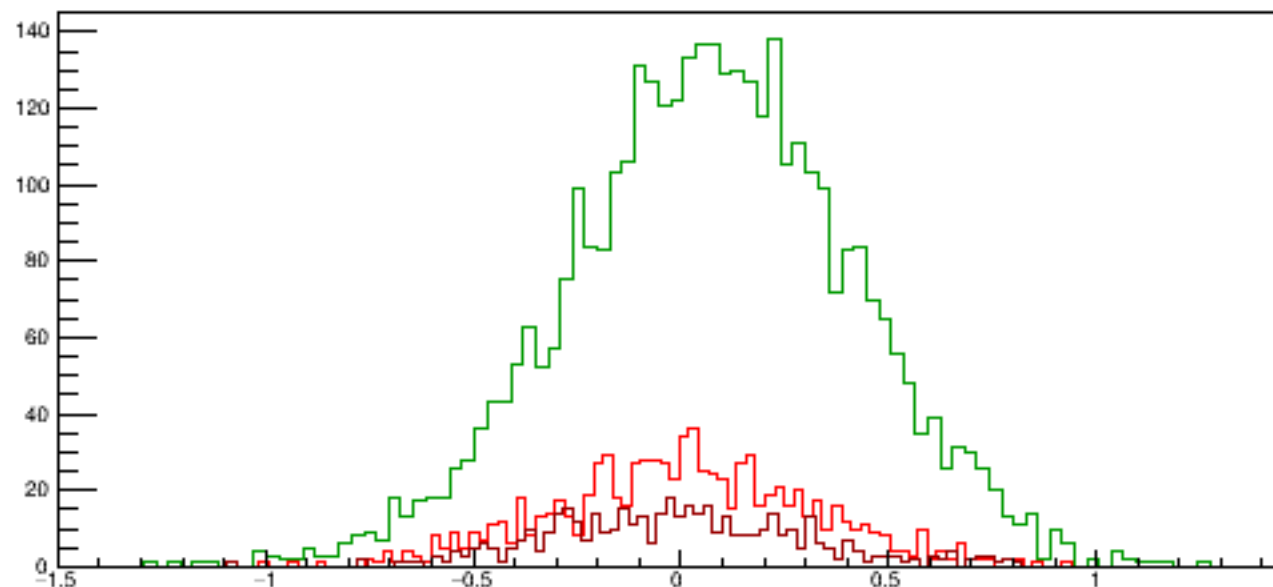




## Cycle 12, Diffs

| Entries: 880               | Entries: 3812              | Entries: 450               |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0033 +/- 0.0104    | Mean: 0.0696 +/- 0.0056    | Mean: -0.0047 +/- 0.0145   |
| Std Dev: 0.3083 +/- 0.0073 | Std Dev: 0.3443 +/- 0.0039 | Std Dev: 0.3069 +/- 0.0102 |

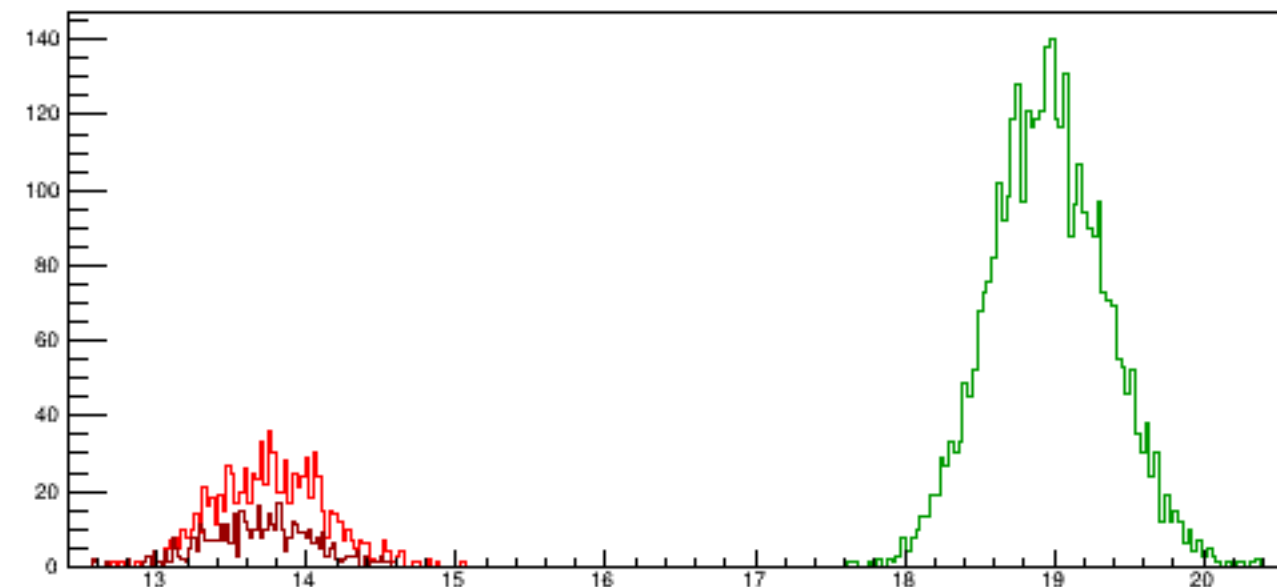
Run 4413 quartetwise, Diffs



## Cycle 12, Sums

| Entries: 880               | Entries: 3812              | Entries: 450               |
|----------------------------|----------------------------|----------------------------|
| Mean: 13.7631 +/- 0.0120   | Mean: 18.9645 +/- 0.0063   | Mean: 13.6766 +/- 0.0169   |
| Std Dev: 0.3545 +/- 0.0084 | Std Dev: 0.3898 +/- 0.0045 | Std Dev: 0.3578 +/- 0.0119 |

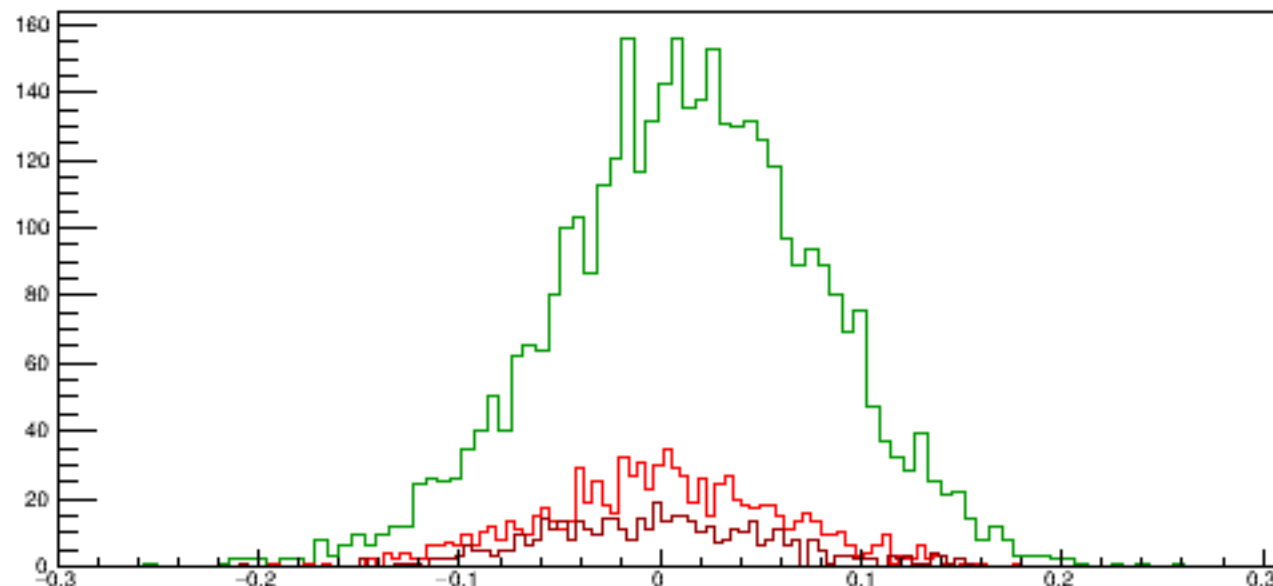
Run 4413 quartetwise, Sums



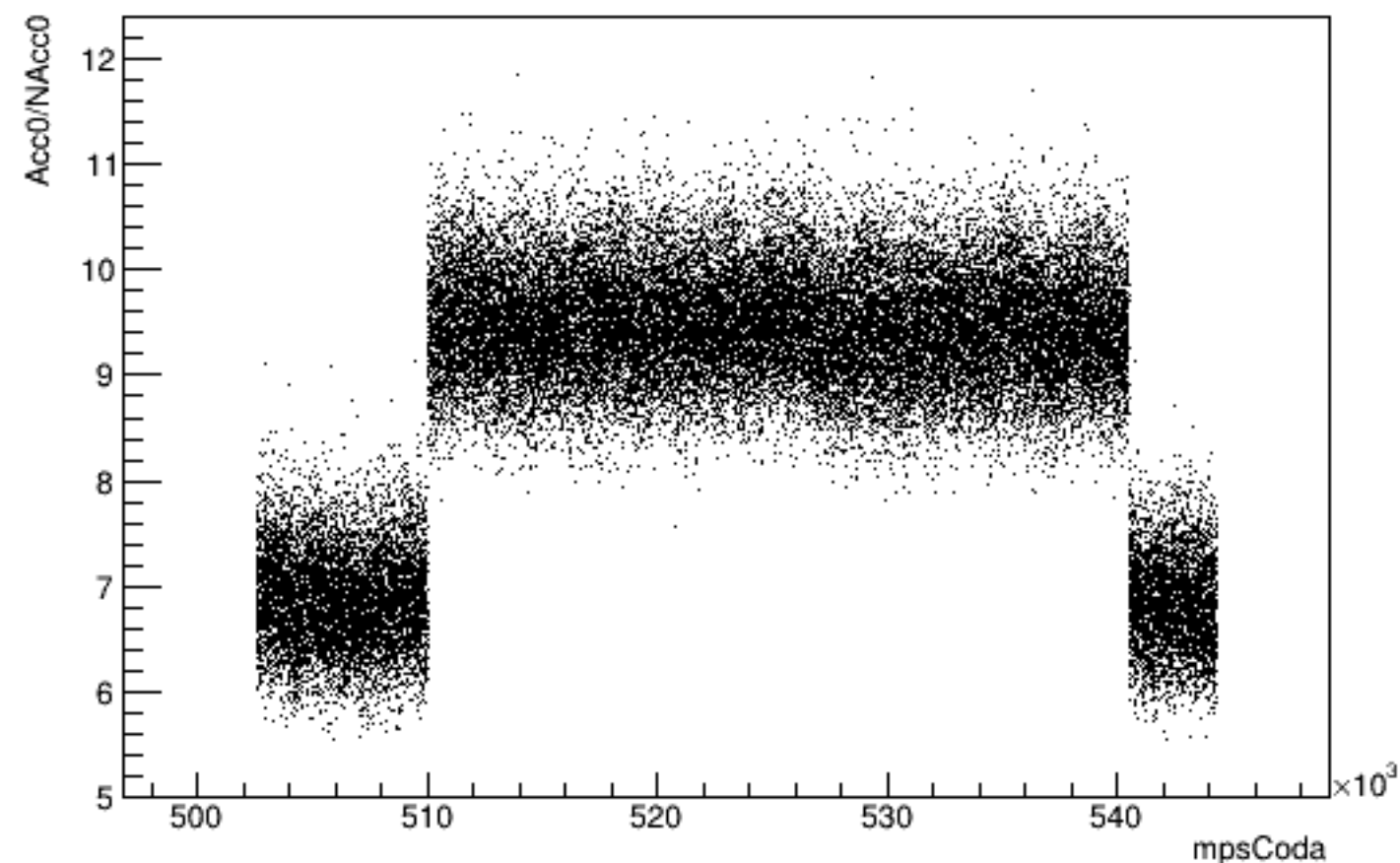
## Cycle 12, Asyms

| Entries: 880               | Entries: 3812              | Entries: 450               |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0006 +/- 0.0020    | Mean: 0.0134 +/- 0.0011    | Mean: -0.0009 +/- 0.0028   |
| Std Dev: 0.0588 +/- 0.0014 | Std Dev: 0.0658 +/- 0.0008 | Std Dev: 0.0585 +/- 0.0020 |

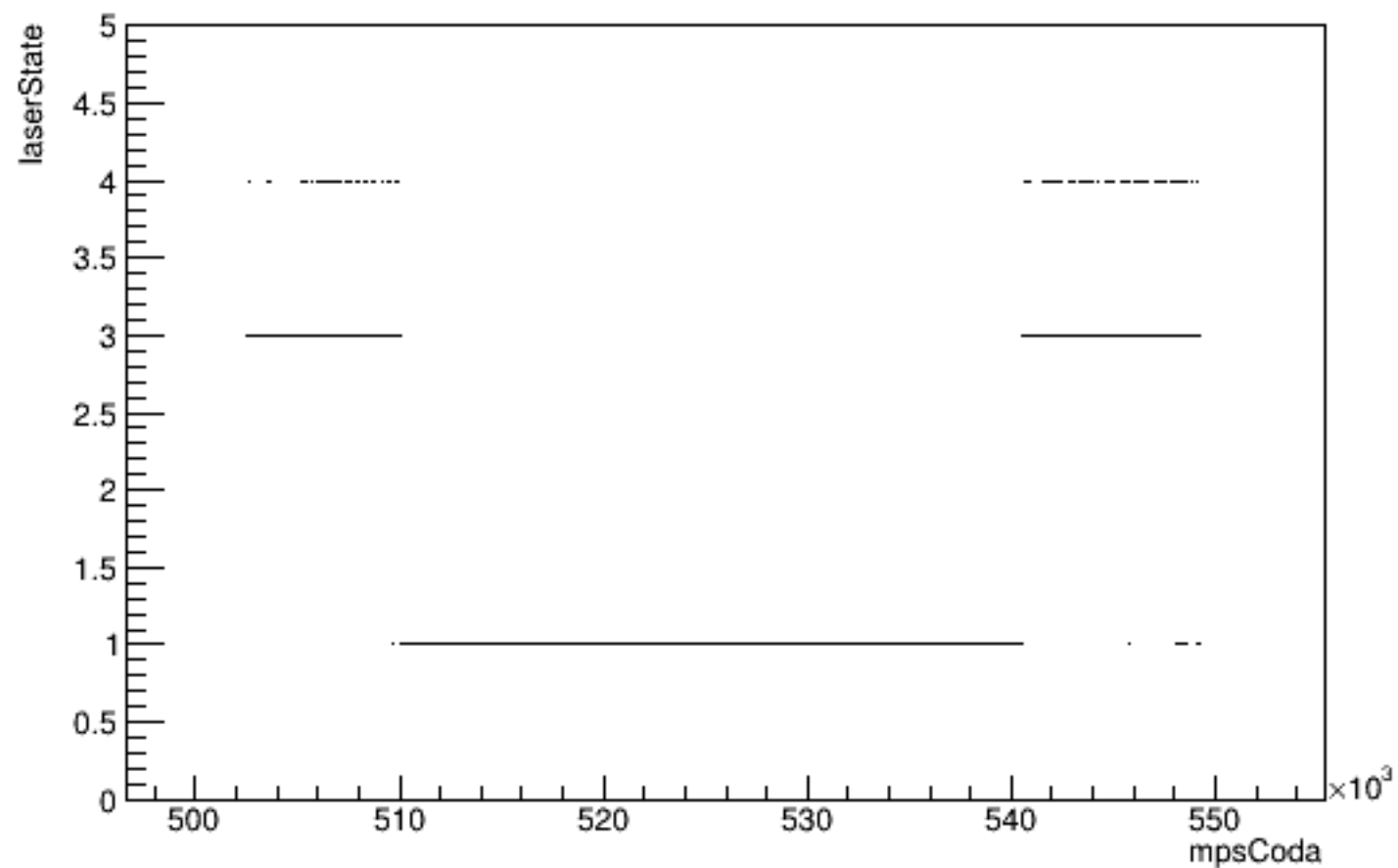
Run 4413 quartetwise, Asyms



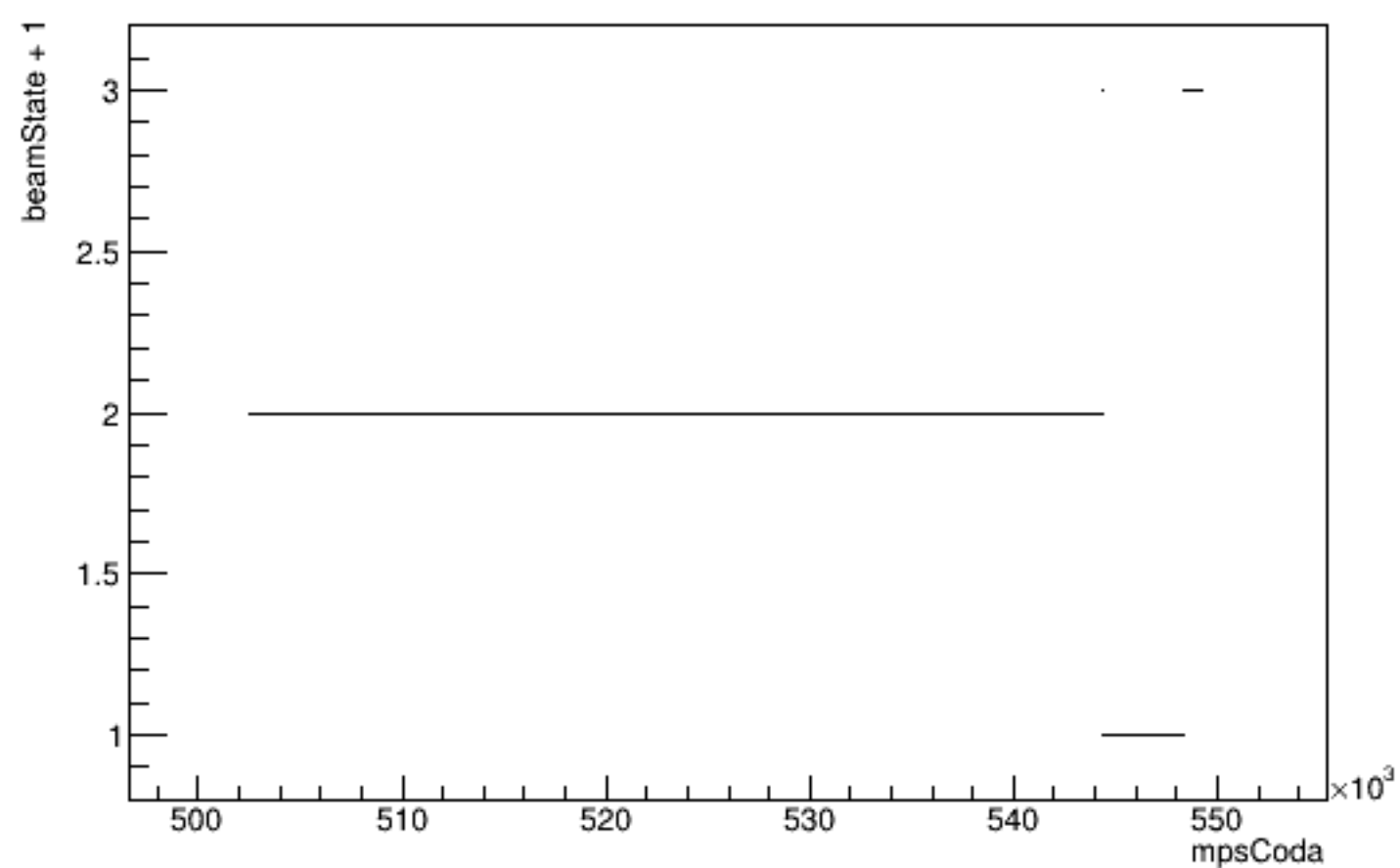
Acc0/NAcc0:mpsCoda (mpsCoda>=502553 && mpsCoda<=549240 && beamState==1)



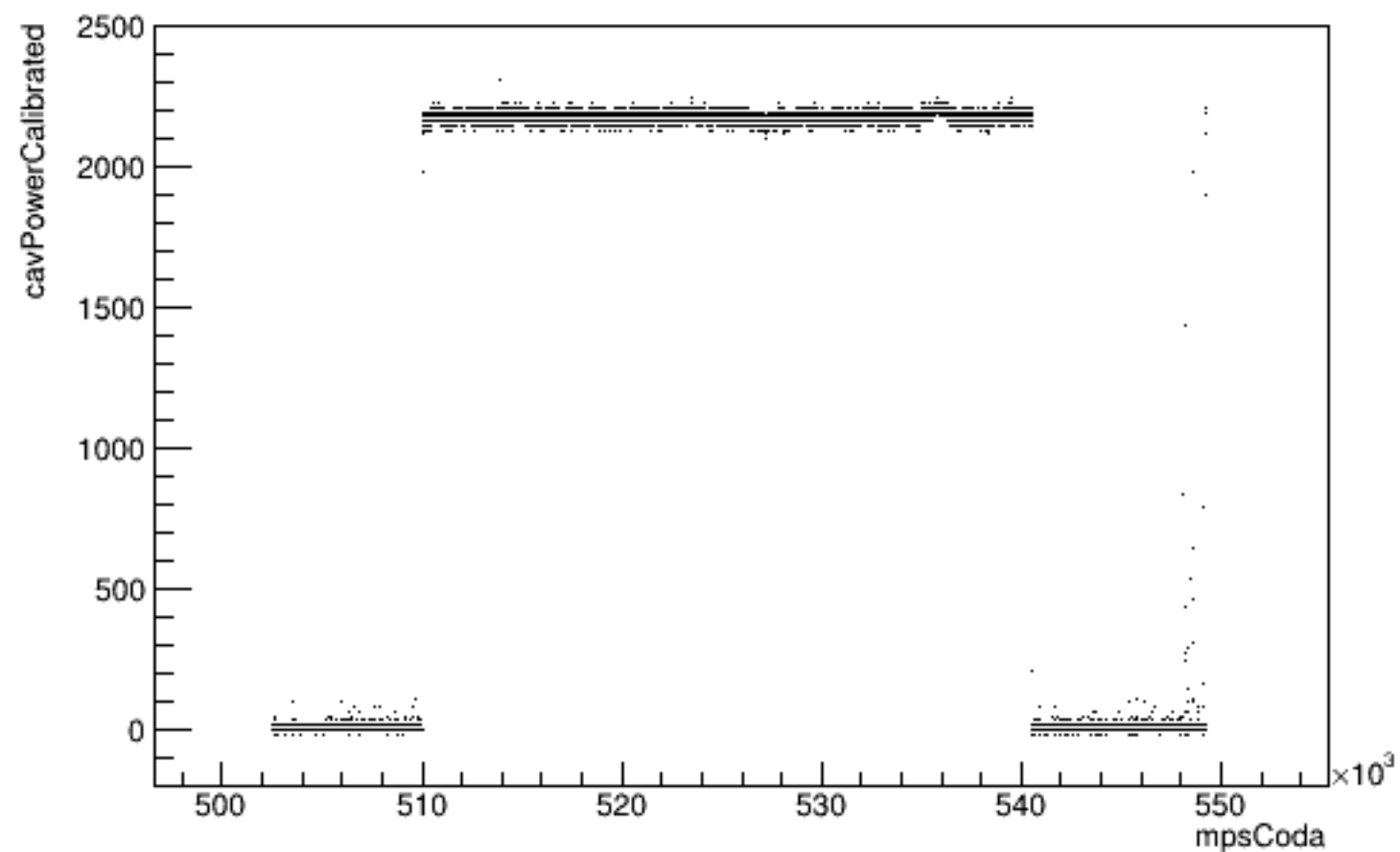
laserState:mpsCoda {mpsCoda&gt;=502553 &amp;&amp; mpsCoda&lt;=549240}



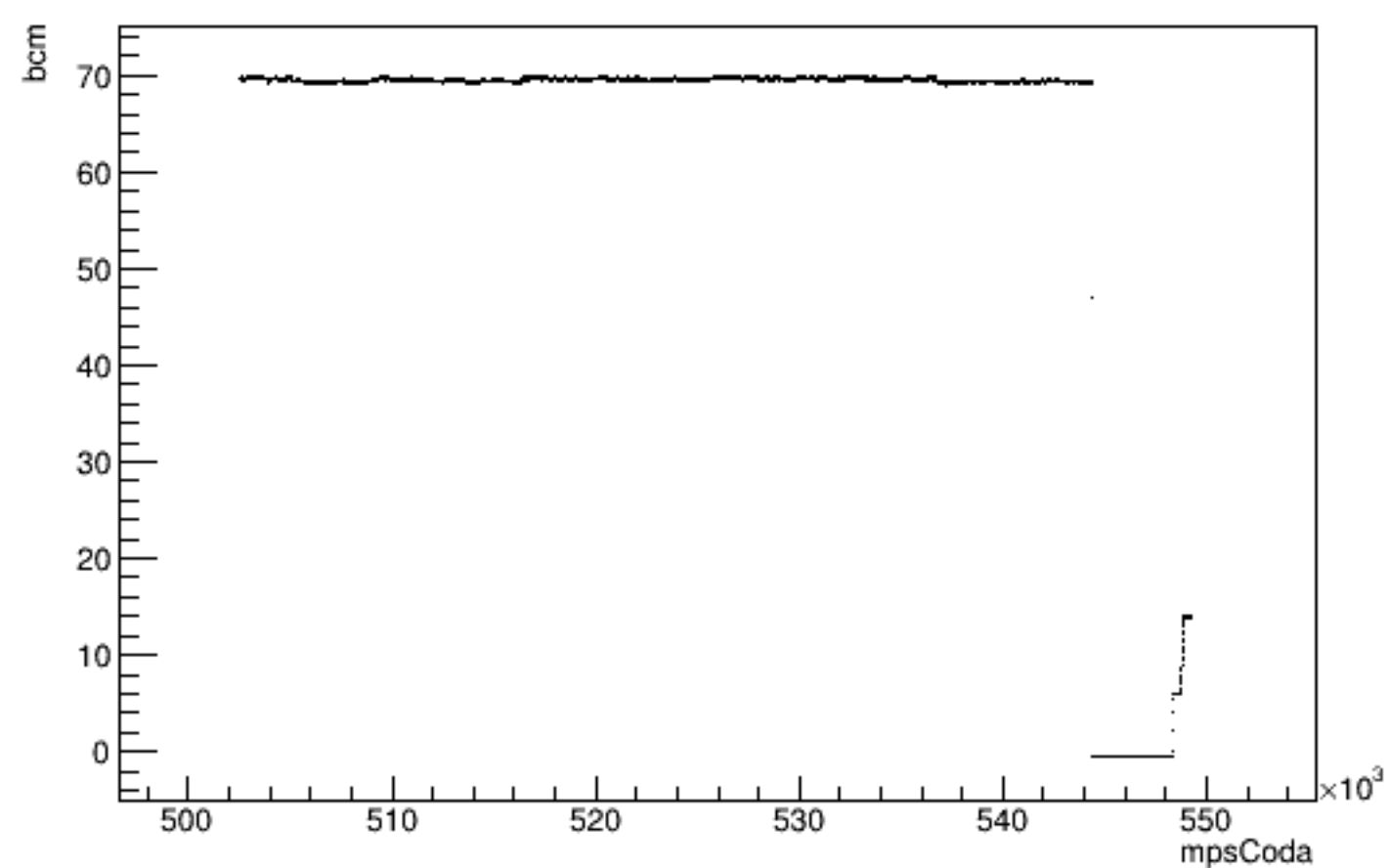
beamState + 1:mpsCoda {mpsCoda&gt;=502553 &amp;&amp; mpsCoda&lt;=549240}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=502553 &amp;&amp; mpsCoda&lt;=549240}



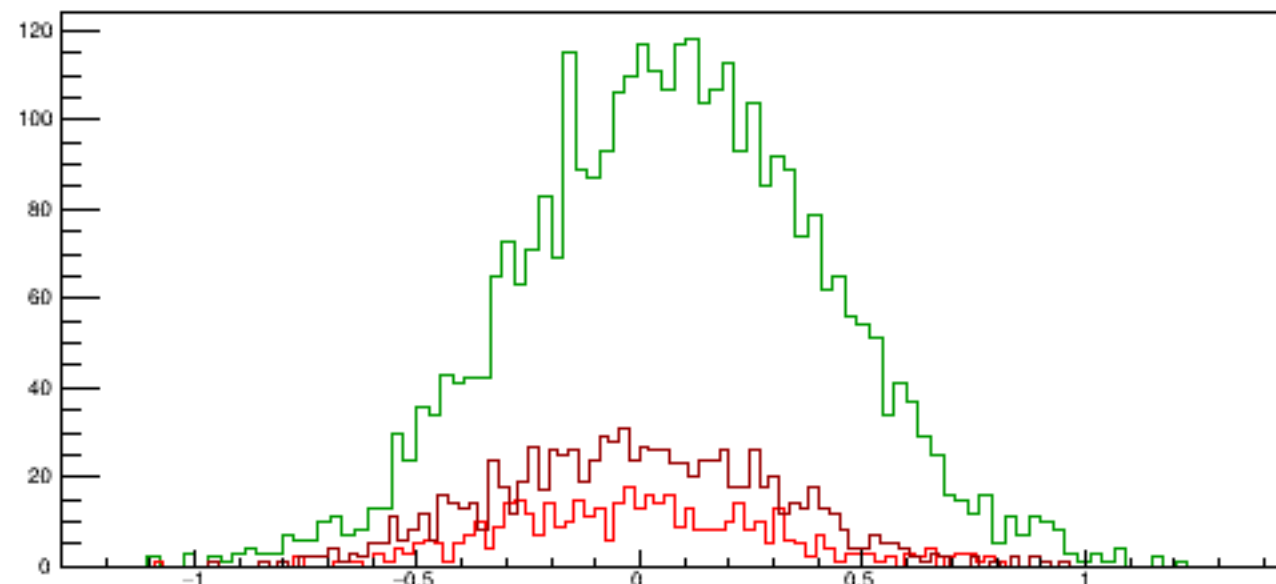
bcm:mpsCoda {mpsCoda&gt;=502553 &amp;&amp; mpsCoda&lt;=549240}



## Cycle 13, Diffs

| Entries: 450               | Entries: 3508              | Entries: 941               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0047 +/- 0.0145   | Mean: 0.0734 +/- 0.0058    | Mean: -0.0137 +/- 0.0100   |
| Std Dev: 0.3069 +/- 0.0102 | Std Dev: 0.3428 +/- 0.0041 | Std Dev: 0.3068 +/- 0.0071 |

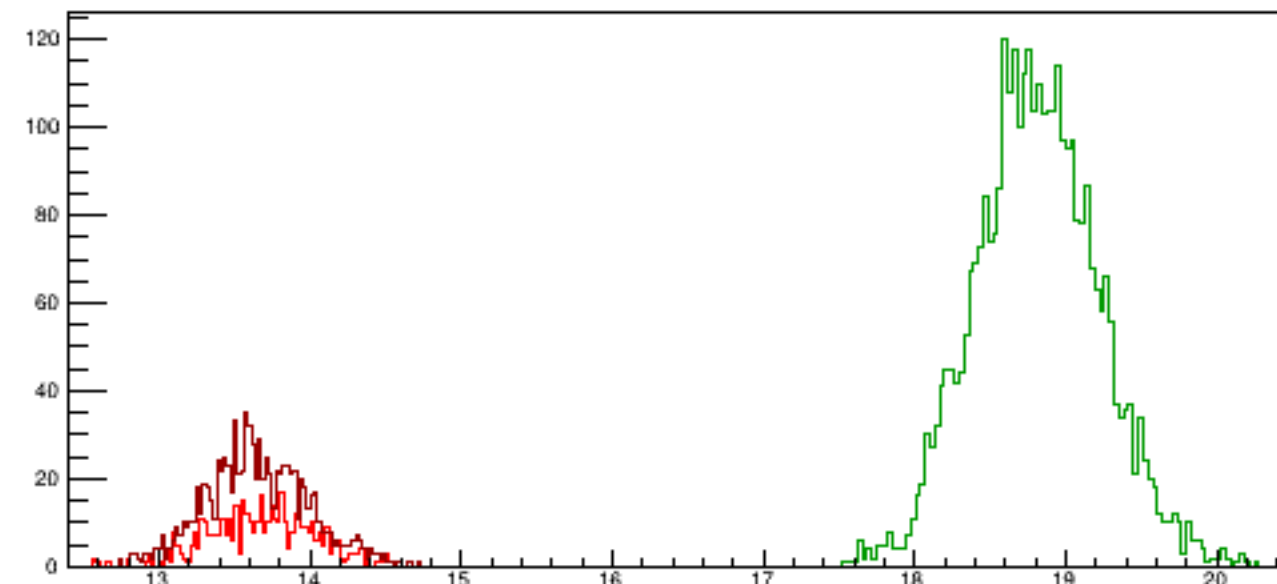
Run 4413 quartetwise, Diffs



## Cycle 13, Sums

| Entries: 450               | Entries: 3508              | Entries: 941               |
|----------------------------|----------------------------|----------------------------|
| Mean: 13.6766 +/- 0.0169   | Mean: 18.8084 +/- 0.0069   | Mean: 13.6524 +/- 0.0111   |
| Std Dev: 0.3578 +/- 0.0119 | Std Dev: 0.4083 +/- 0.0049 | Std Dev: 0.3412 +/- 0.0079 |

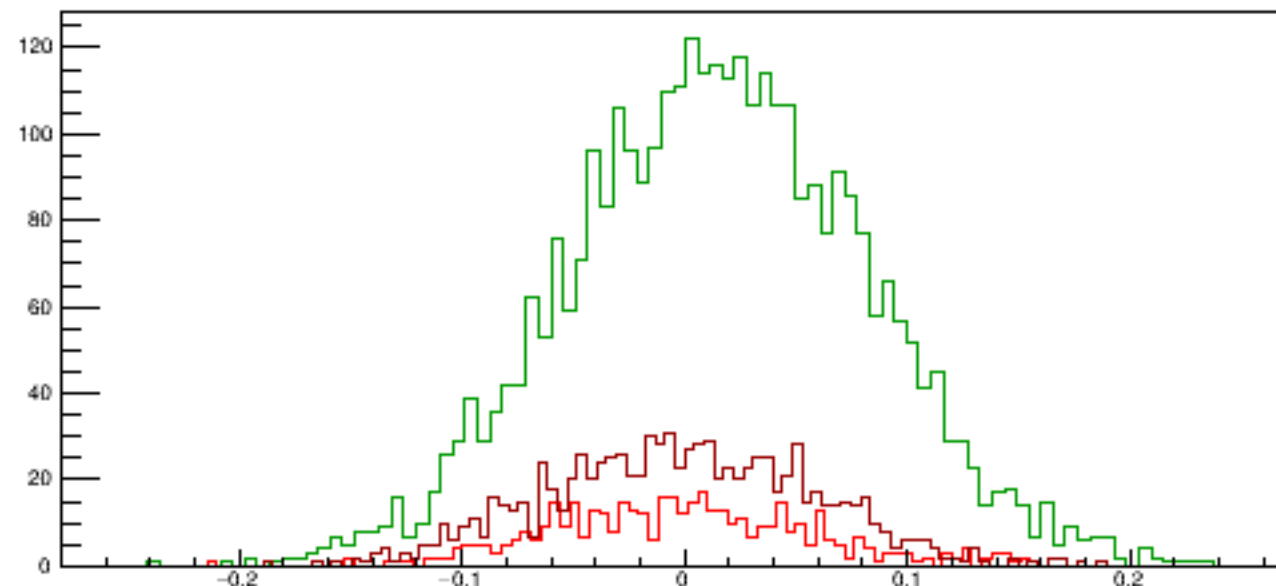
Run 4413 quartetwise, Sums



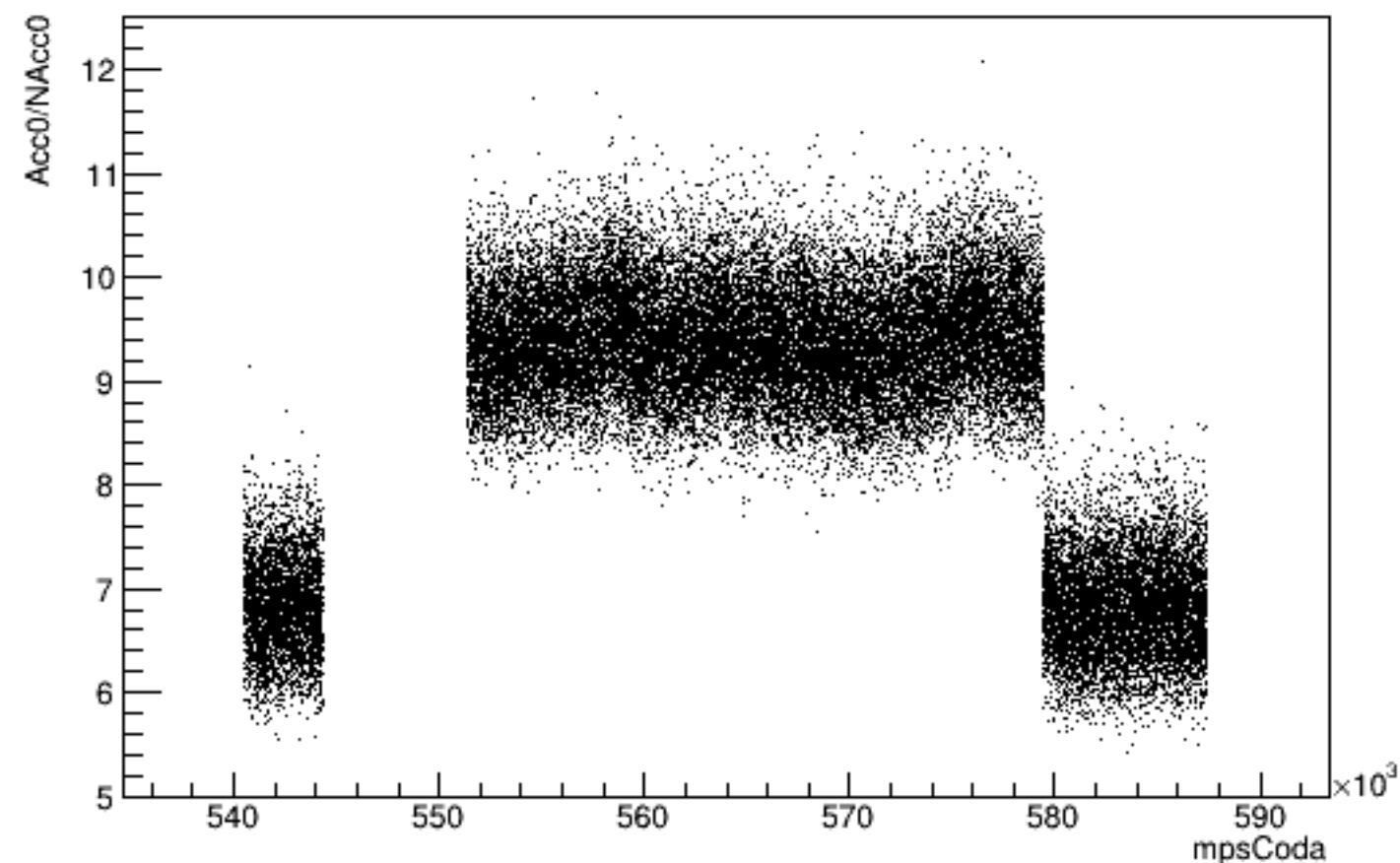
## Cycle 13, Asyms

| Entries: 450               | Entries: 3508              | Entries: 941               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0009 +/- 0.0028   | Mean: 0.0145 +/- 0.0011    | Mean: -0.0027 +/- 0.0019   |
| Std Dev: 0.0597 +/- 0.0020 | Std Dev: 0.0668 +/- 0.0008 | Std Dev: 0.0596 +/- 0.0014 |

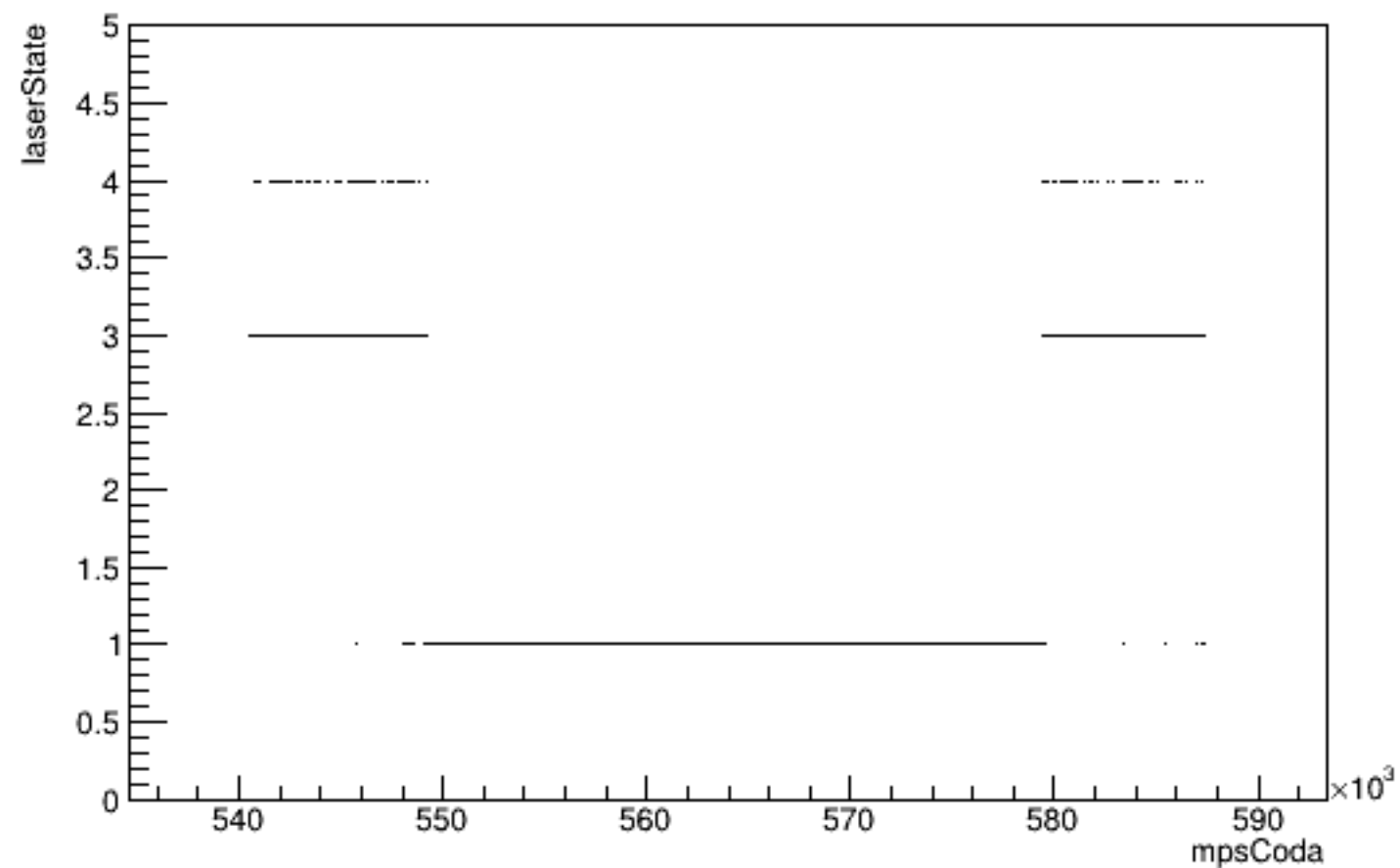
Run 4413 quartetwise, Asyms



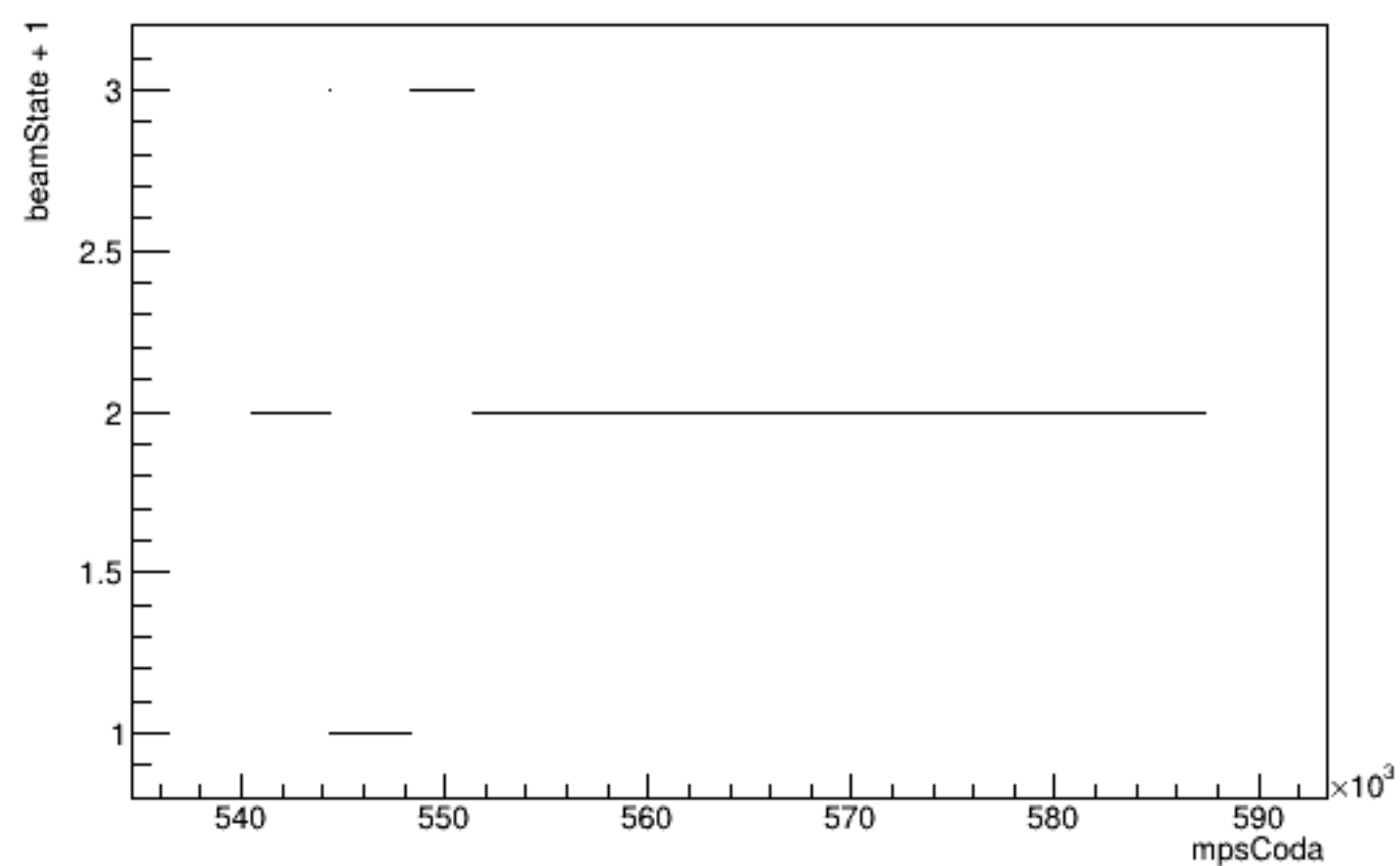
Acc0/NAcc0:mpsCoda (mpsCoda>=540505 && mpsCoda<=587408 && beamState==1)



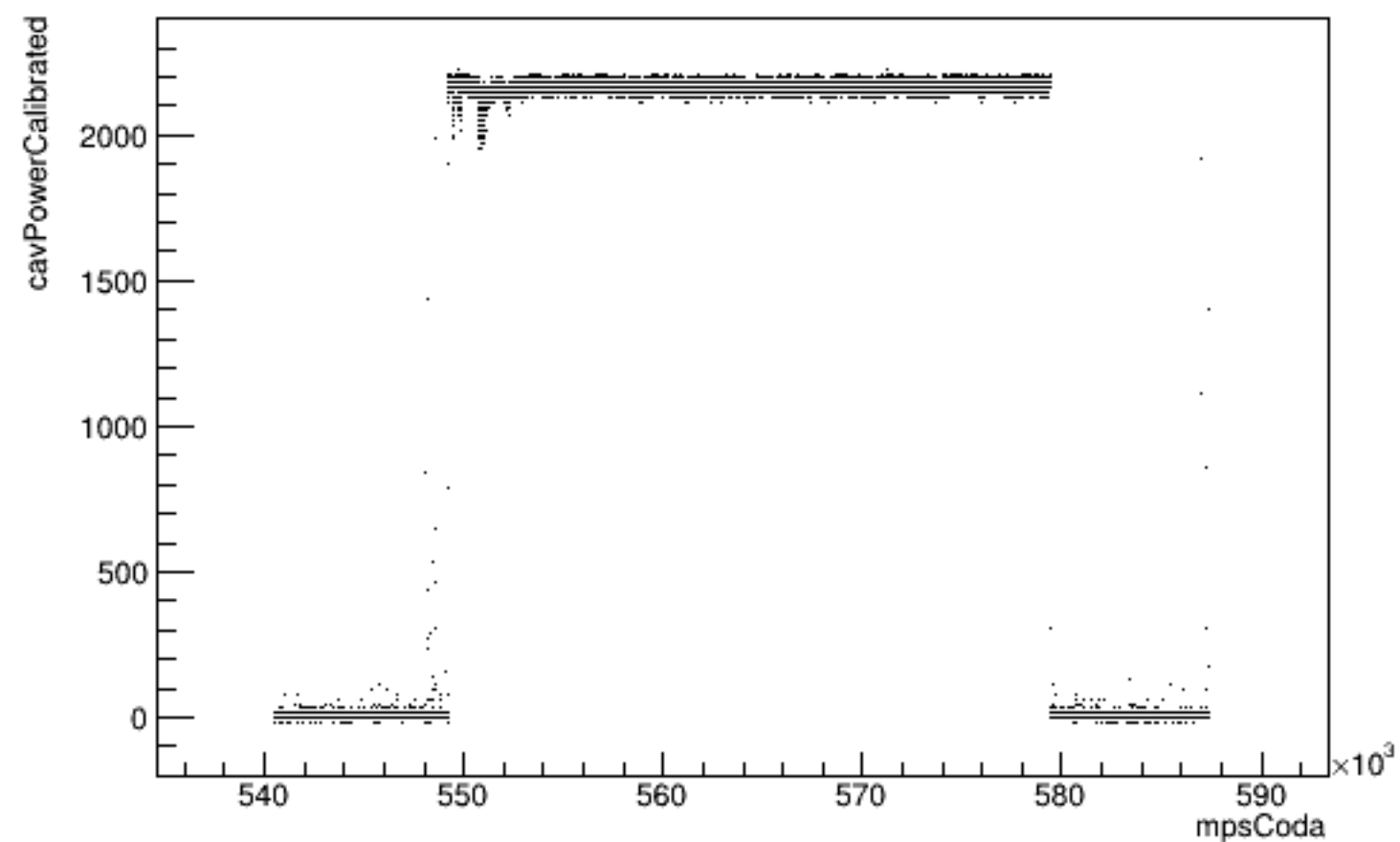
laserState:mpsCoda {mpsCoda&gt;=540505 &amp;&amp; mpsCoda&lt;=587408}



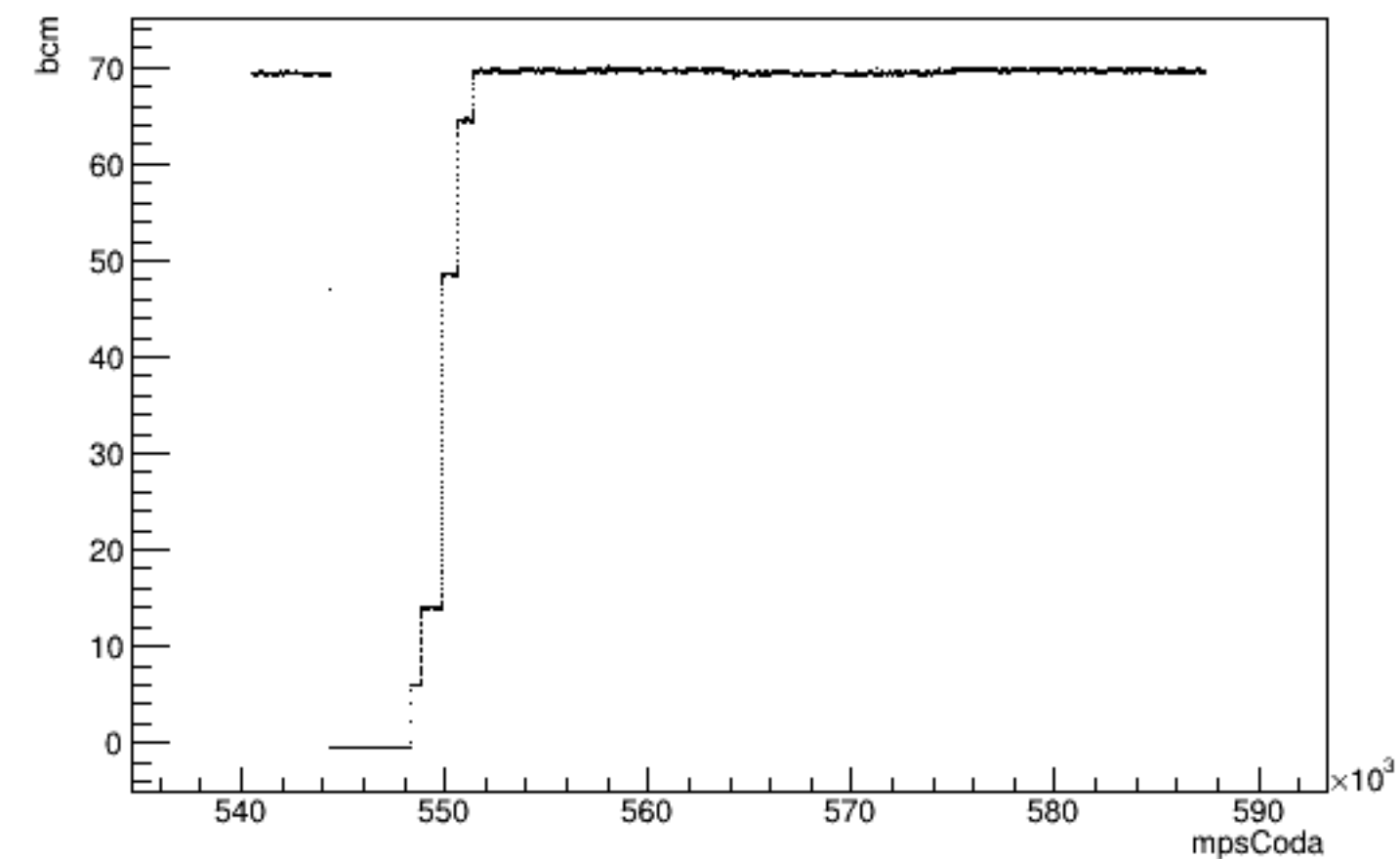
beamState + 1:mpsCoda {mpsCoda&gt;=540505 &amp;&amp; mpsCoda&lt;=587408}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=540505 &amp;&amp; mpsCoda&lt;=587408}



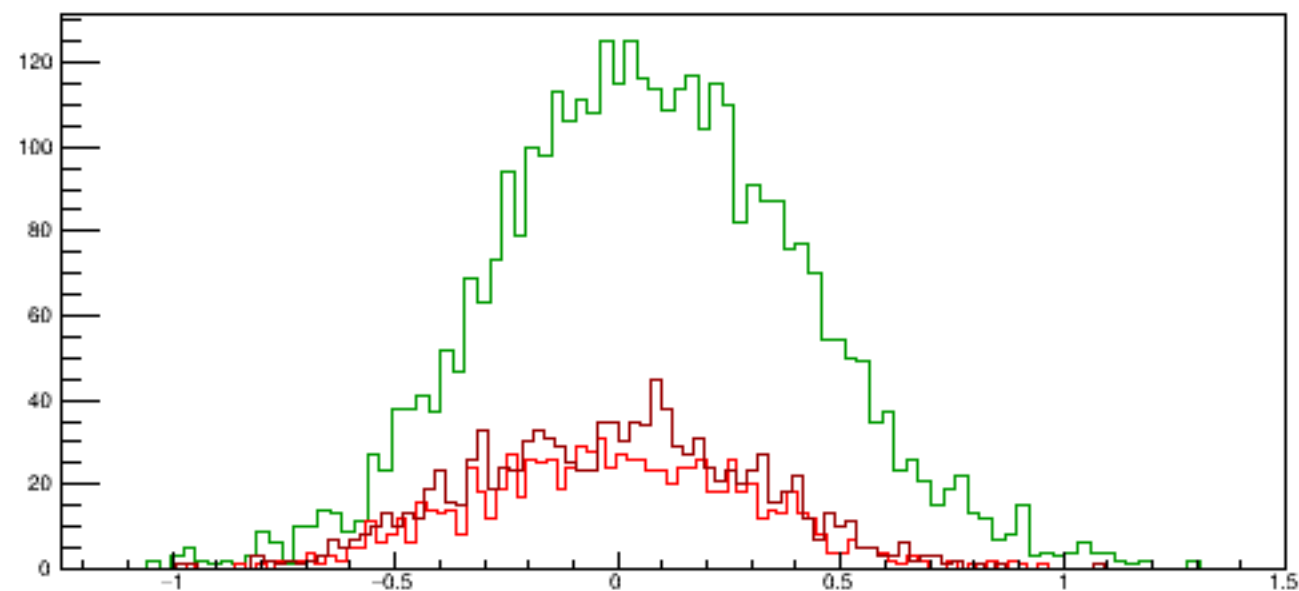
bcm:mpsCoda {mpsCoda&gt;=540505 &amp;&amp; mpsCoda&lt;=587408}



## Cycle 14, Diffs

| Entries: 941               | Entries: 3748              | Entries: 1115              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0137 +/- 0.0100   | Mean: 0.0732 +/- 0.0057    | Mean: -0.0140 +/- 0.0093   |
| Std Dev: 0.3068 +/- 0.0071 | Std Dev: 0.3471 +/- 0.0040 | Std Dev: 0.3108 +/- 0.0066 |

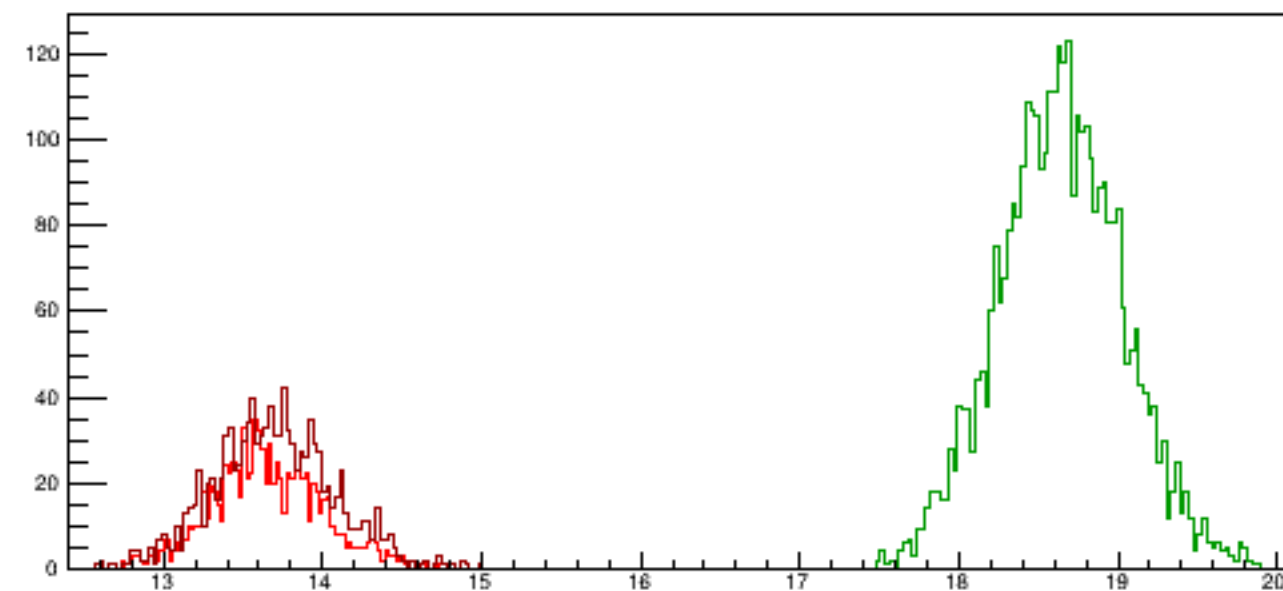
Run 4413 quartetwise, Diffs



## Cycle 14, Sums

| Entries: 941               | Entries: 3748              | Entries: 1115              |
|----------------------------|----------------------------|----------------------------|
| Mean: 13.6524 +/- 0.0111   | Mean: 18.6410 +/- 0.0064   | Mean: 13.6950 +/- 0.0113   |
| Std Dev: 0.3412 +/- 0.0079 | Std Dev: 0.3892 +/- 0.0045 | Std Dev: 0.3774 +/- 0.0080 |

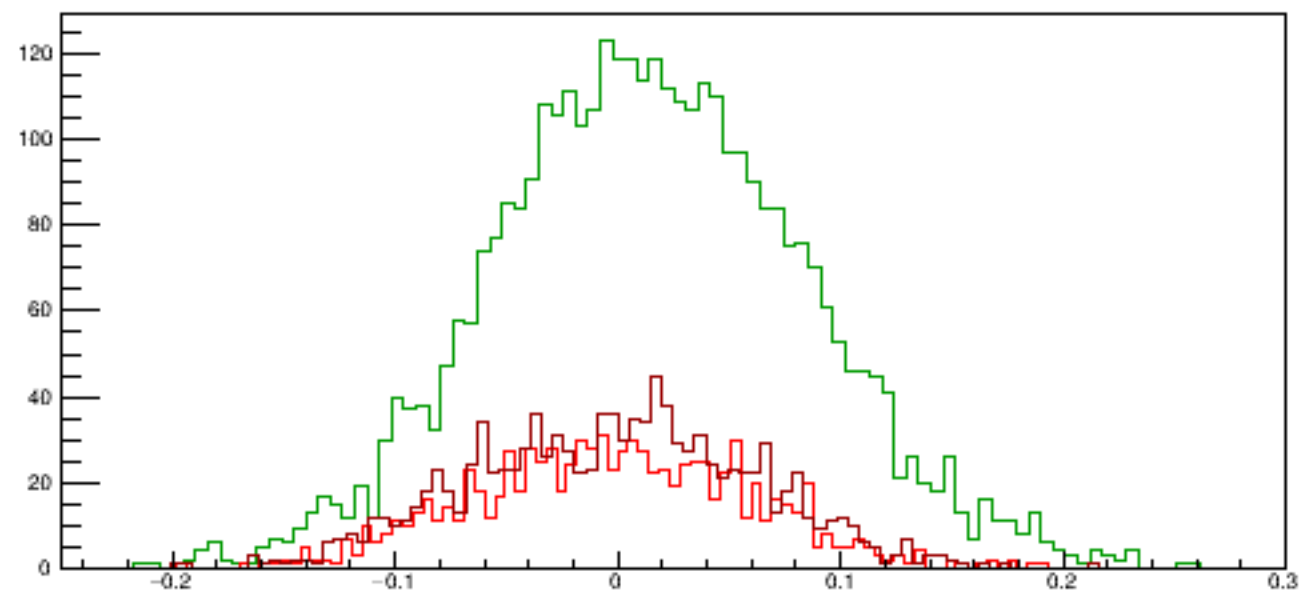
Run 4413 quartetwise, Sums



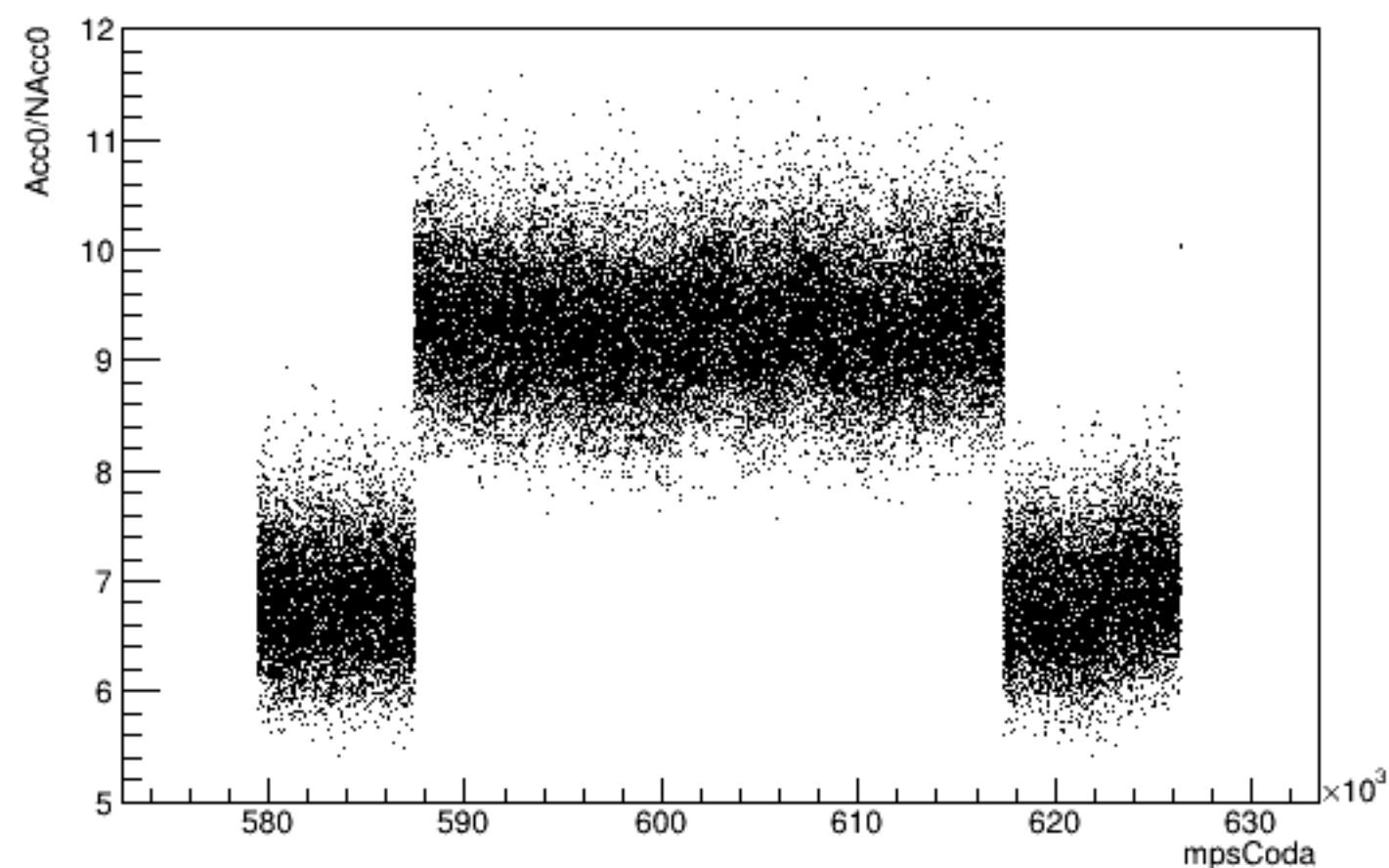
## Cycle 14, Asyms

| Entries: 941               | Entries: 3748              | Entries: 1115              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0028 +/- 0.0020   | Mean: 0.0147 +/- 0.0011    | Mean: -0.0028 +/- 0.0019   |
| Std Dev: 0.0618 +/- 0.0014 | Std Dev: 0.0701 +/- 0.0008 | Std Dev: 0.0626 +/- 0.0013 |

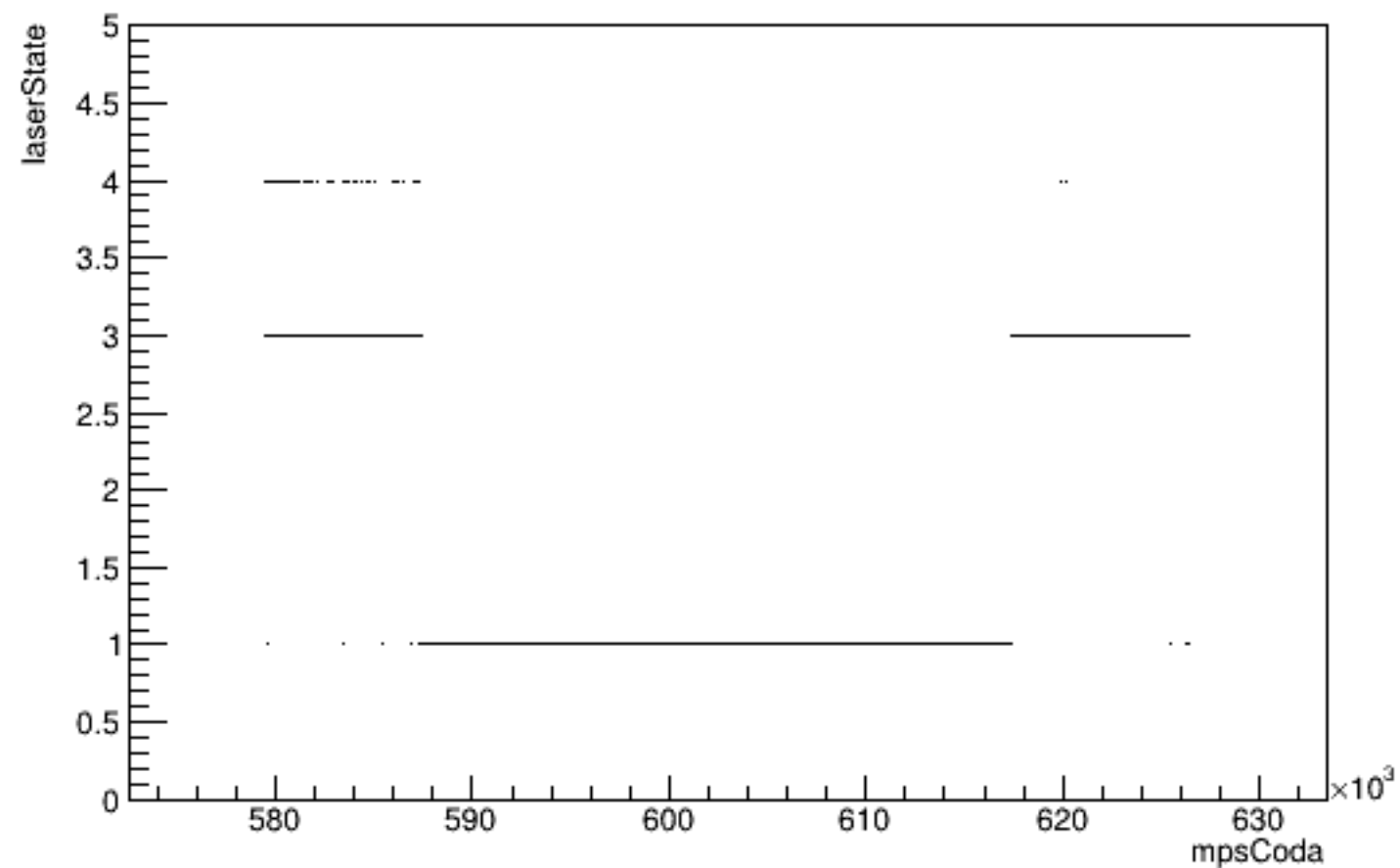
Run 4413 quartetwise, Asyms



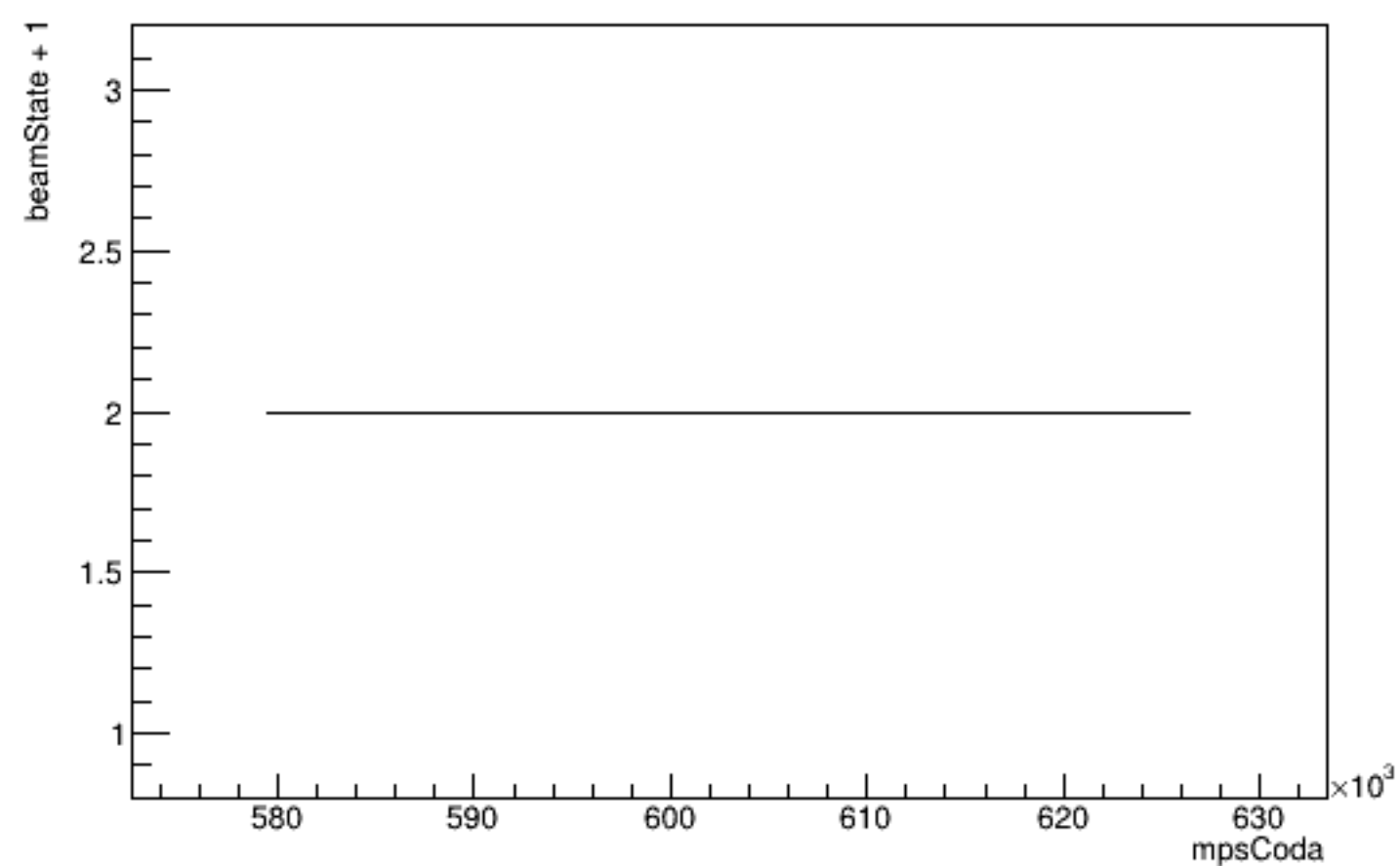
Acc0/NAcc0:mpsCoda (mpsCoda>=579441 && mpsCoda<=626360 && beamState==1)



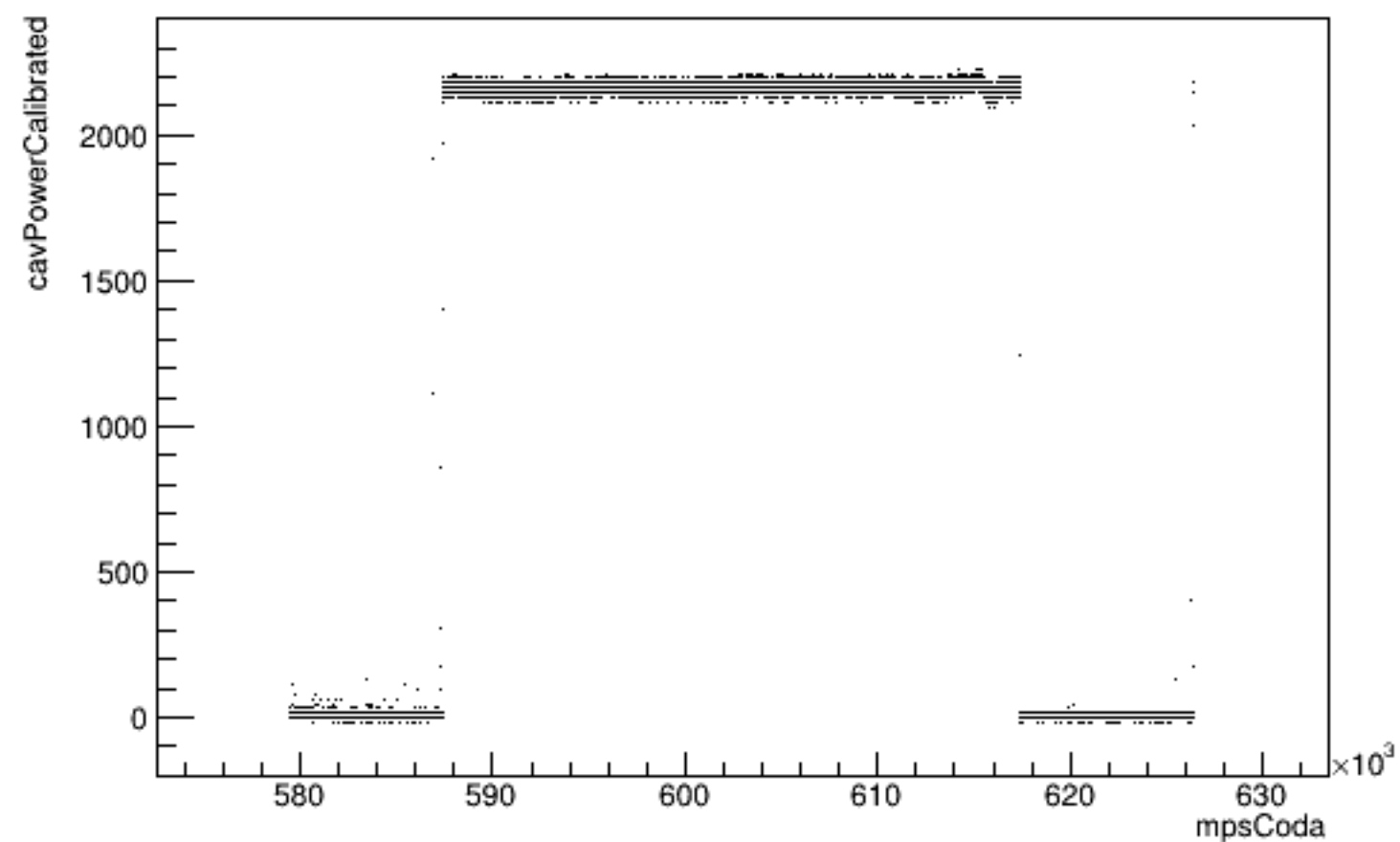
laserState:mpsCoda {mpsCoda&gt;=579441 &amp;&amp; mpsCoda&lt;=626360}



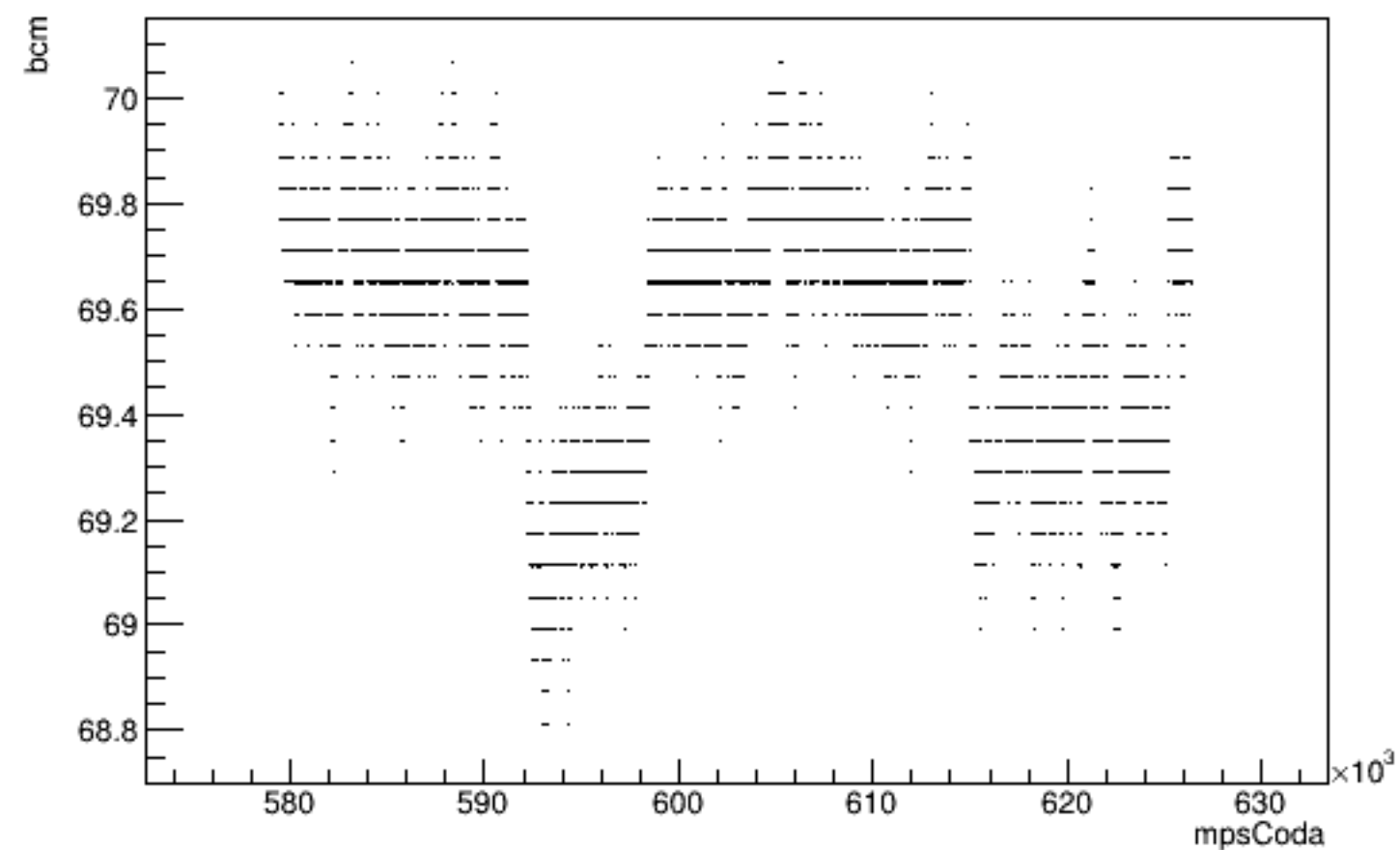
beamState + 1:mpsCoda {mpsCoda&gt;=579441 &amp;&amp; mpsCoda&lt;=626360}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=579441 &amp;&amp; mpsCoda&lt;=626360}



bcm:mpsCoda {mpsCoda&gt;=579441 &amp;&amp; mpsCoda&lt;=626360}





## Cycle 15, Diffs

Entries: 1115

Mean: -0.0140 +/- 0.0093

Std Dev: 0.3108 +/- 0.0066

Entries: 3745

Mean: 0.0702 +/- 0.0056

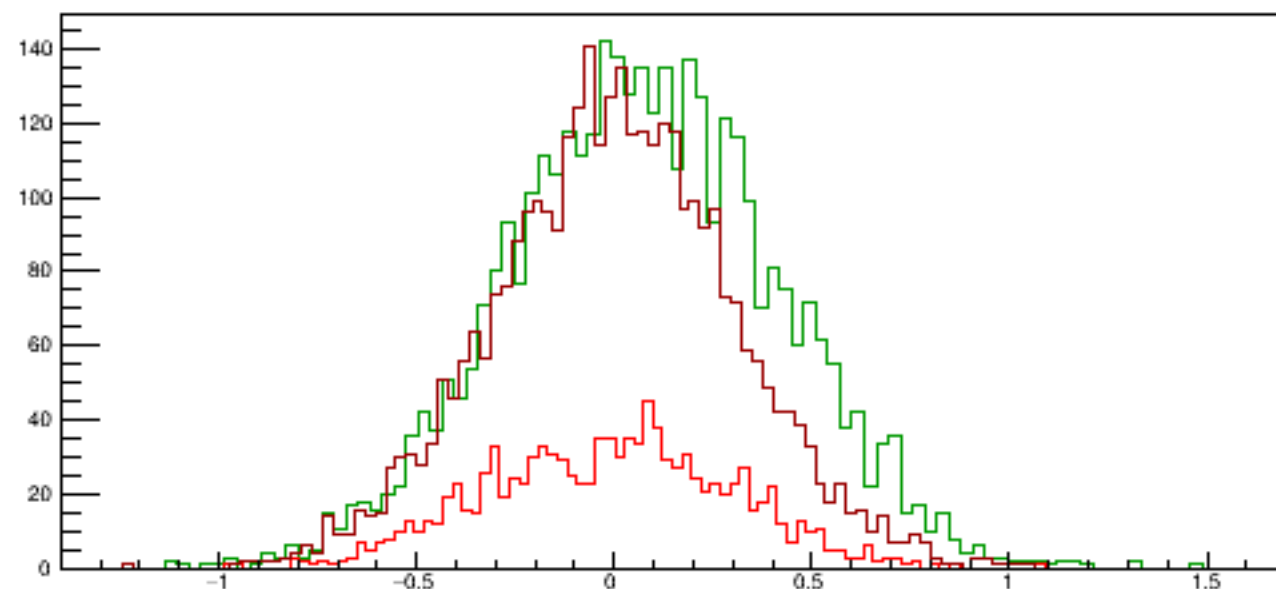
Std Dev: 0.3445 +/- 0.0040

Entries: 3506

Mean: -0.0009 +/- 0.0052

Std Dev: 0.3052 +/- 0.0036

Run 4413 quartetwise, Diffs



## Cycle 15, Sums

Entries: 1115

Mean: 13.6950 +/- 0.0113

Std Dev: 0.3774 +/- 0.0080

Entries: 3745

Mean: 18.8963 +/- 0.0064

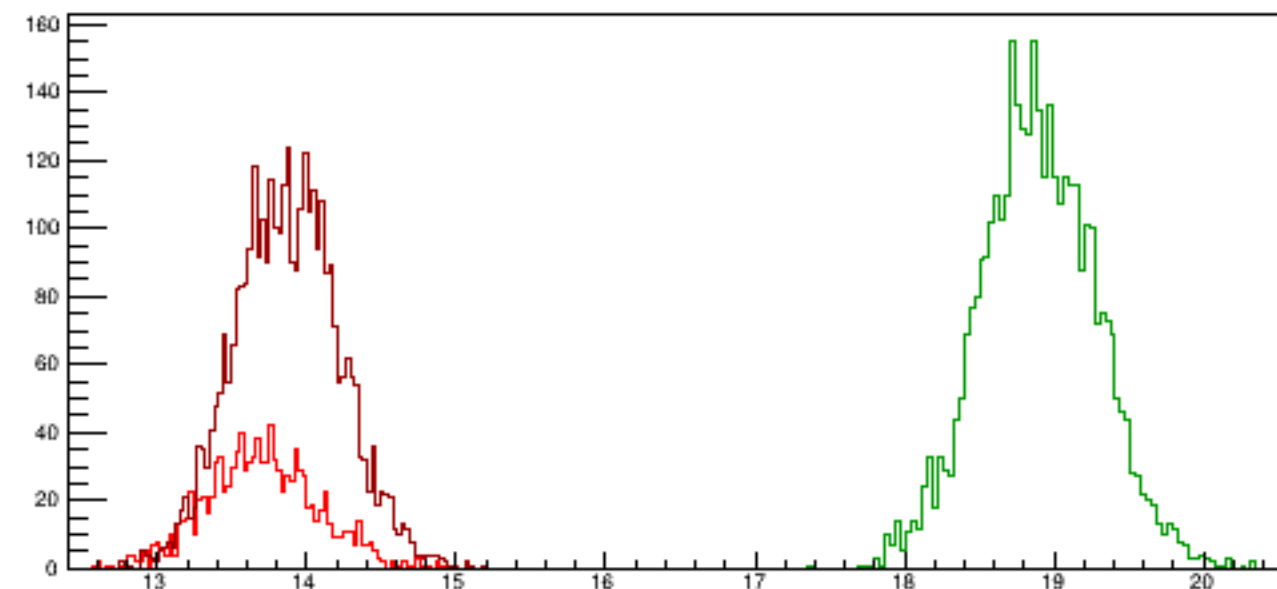
Std Dev: 0.3899 +/- 0.0045

Entries: 3506

Mean: 13.8697 +/- 0.0059

Std Dev: 0.3518 +/- 0.0042

Run 4413 quartetwise, Sums



## Cycle 15, Asyms

Entries: 1115

Mean: -0.0027 +/- 0.0018

Std Dev: 0.0608 +/- 0.0013

Entries: 3745

Mean: 0.0137 +/- 0.0011

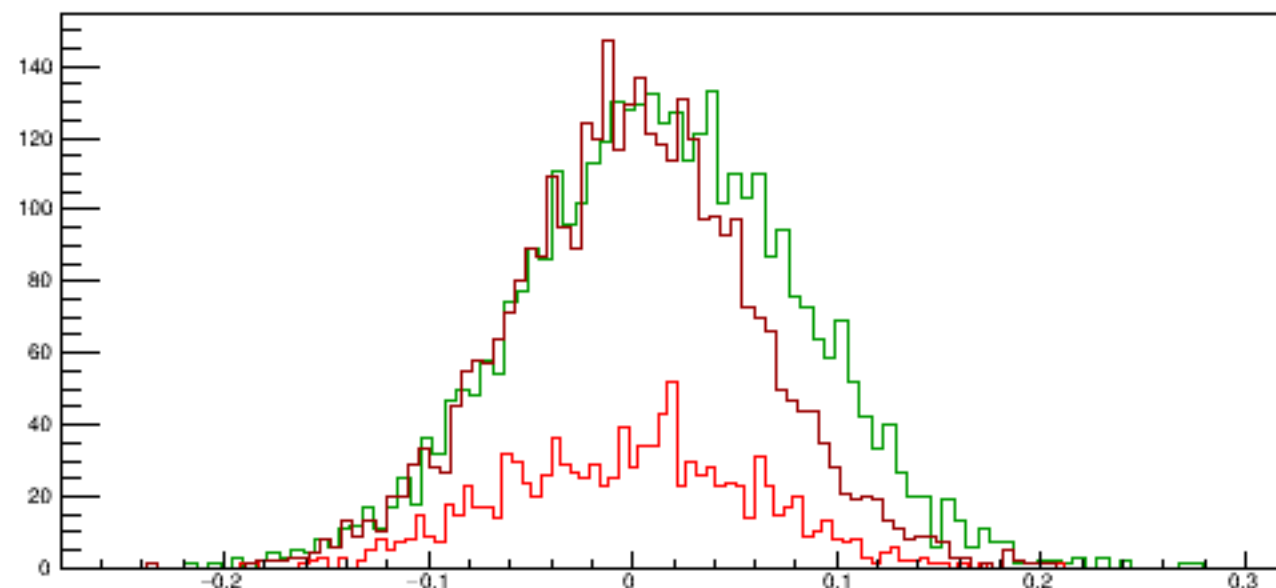
Std Dev: 0.0675 +/- 0.0008

Entries: 3506

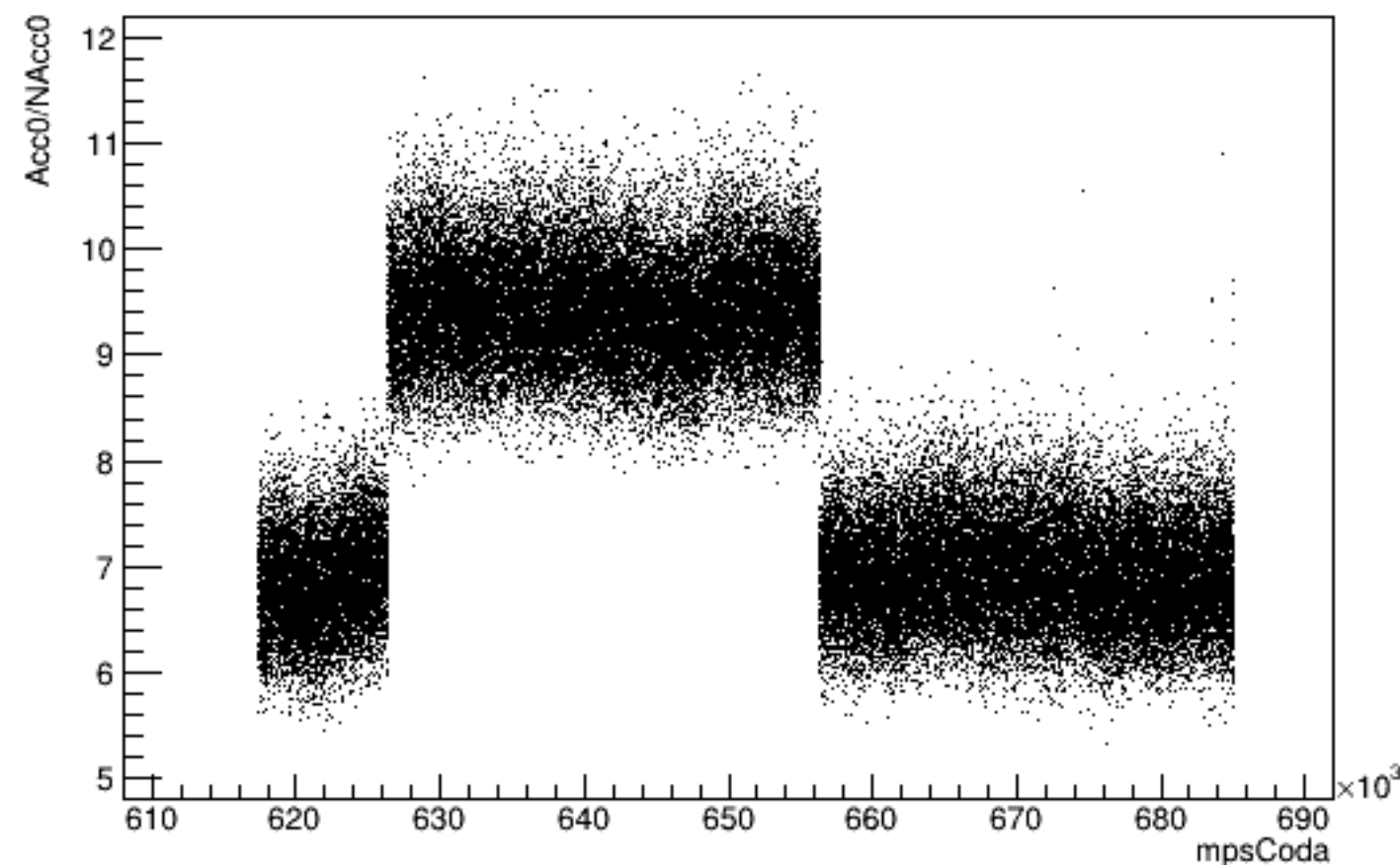
Mean: -0.0002 +/- 0.0010

Std Dev: 0.0597 +/- 0.0007

Run 4413 quartetwise, Asyms

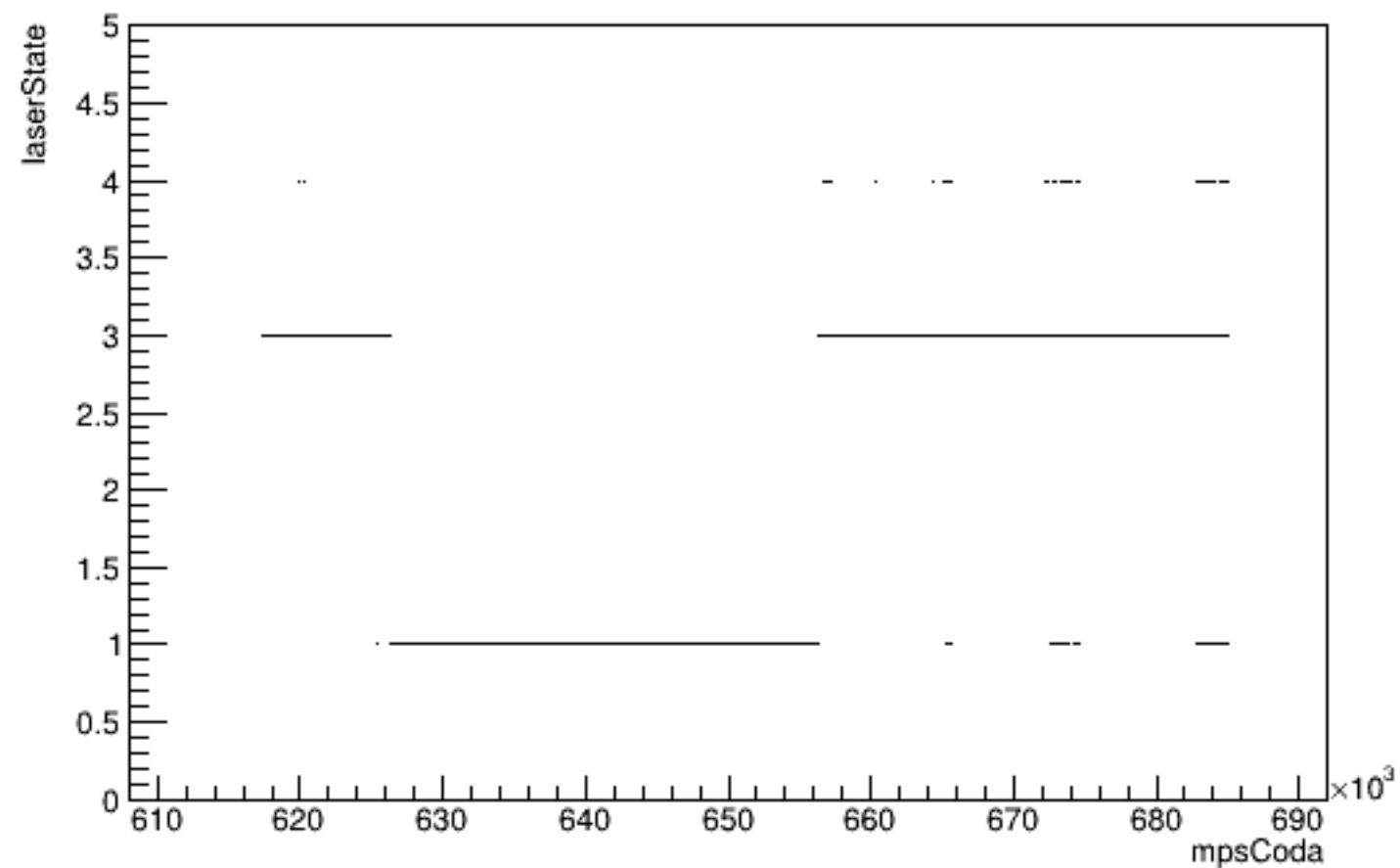


Acc0/NAcc0:mpsCoda (mpsCoda>=617401 && mpsCoda<=685104 && beamState==1)

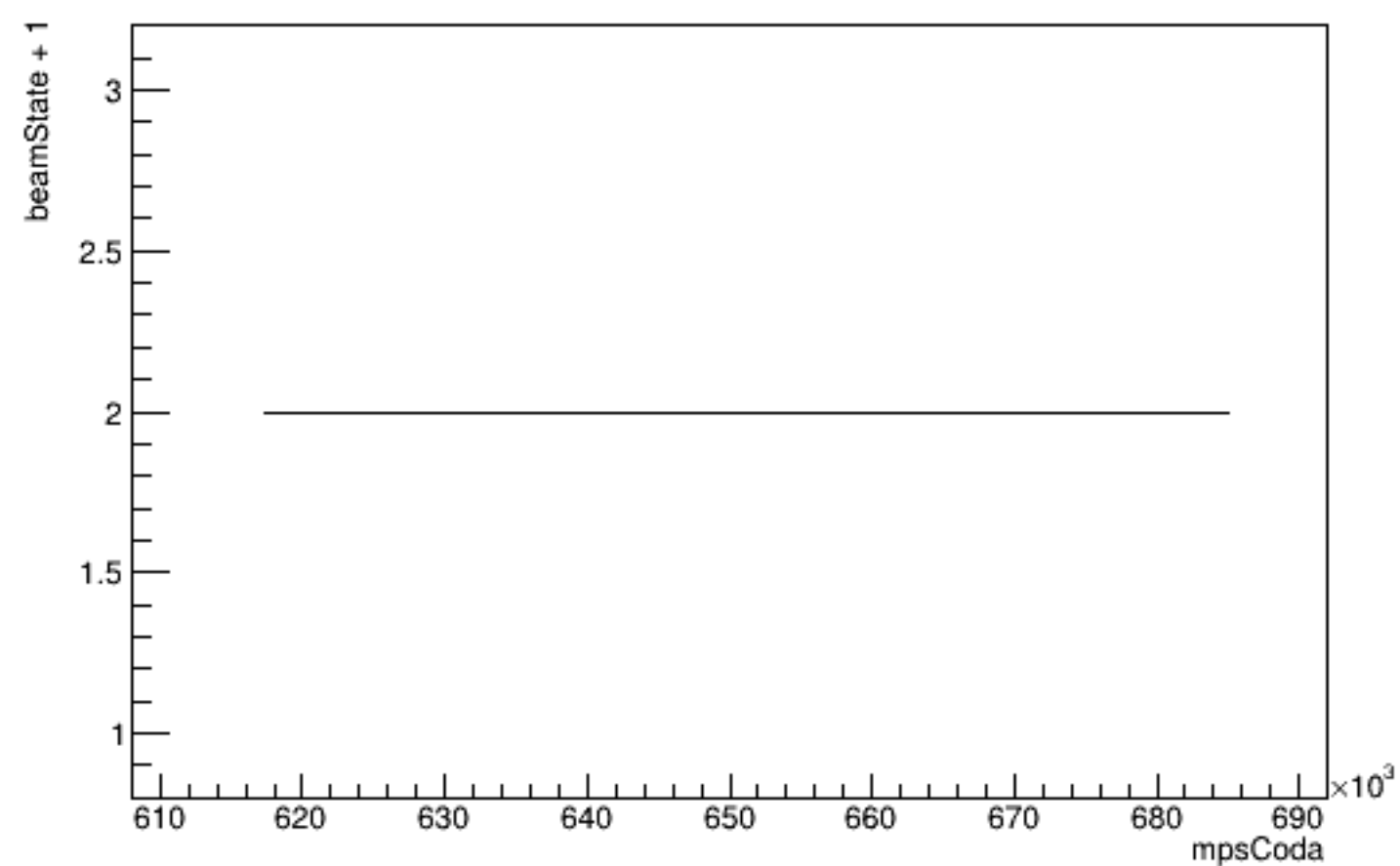




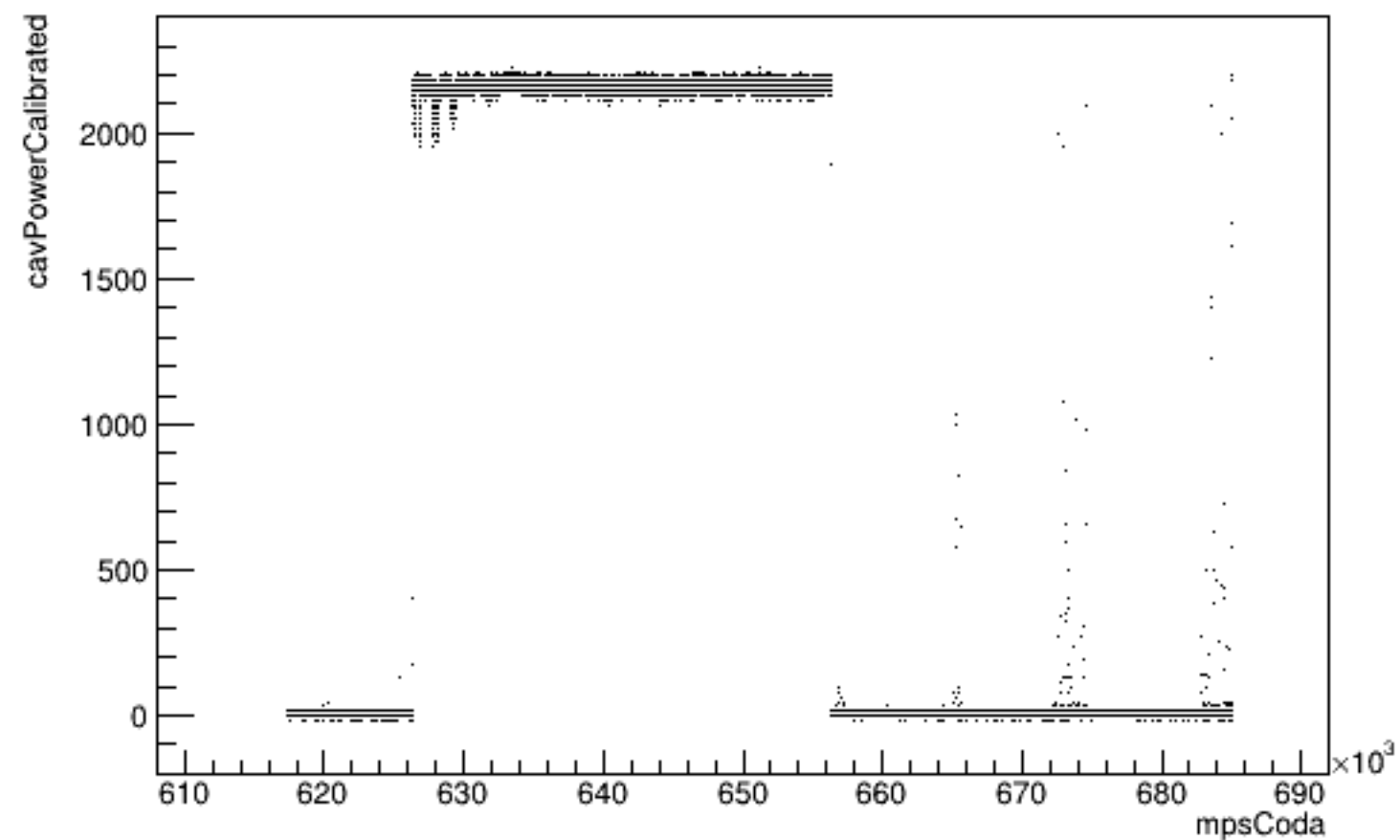
laserState:mpsCoda {mpsCoda&gt;=617401 &amp;&amp; mpsCoda&lt;=685104}



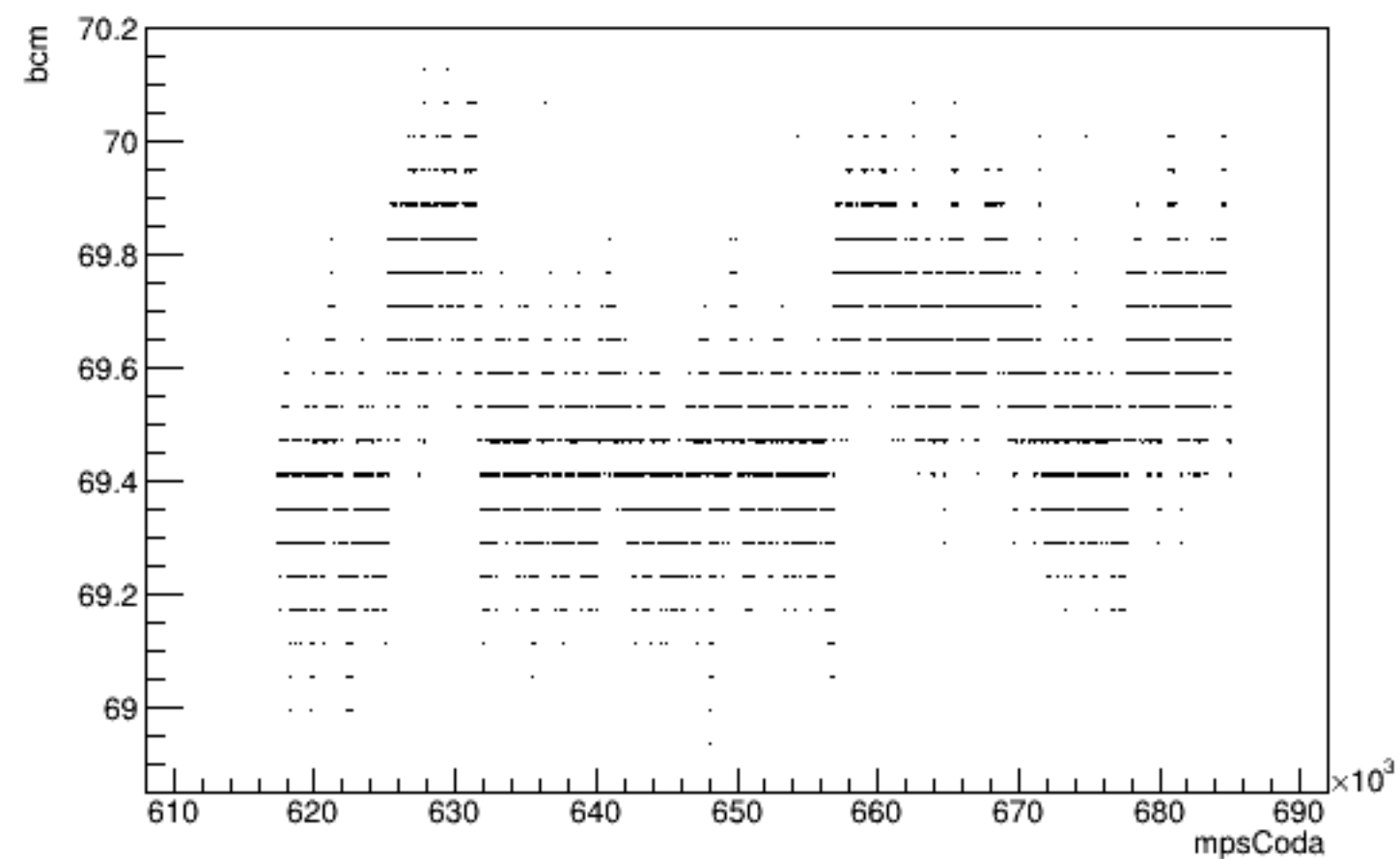
beamState + 1:mpsCoda {mpsCoda&gt;=617401 &amp;&amp; mpsCoda&lt;=685104}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=617401 &amp;&amp; mpsCoda&lt;=685104}



bcm:mpsCoda {mpsCoda&gt;=617401 &amp;&amp; mpsCoda&lt;=685104}



## Cycle 16, Diffs

Entries: 3506

Mean: -0.0009 +/- 0.0052

Std Dev: 0.3052 +/- 0.0036

Entries: 3182

Mean: 0.0716 +/- 0.0060

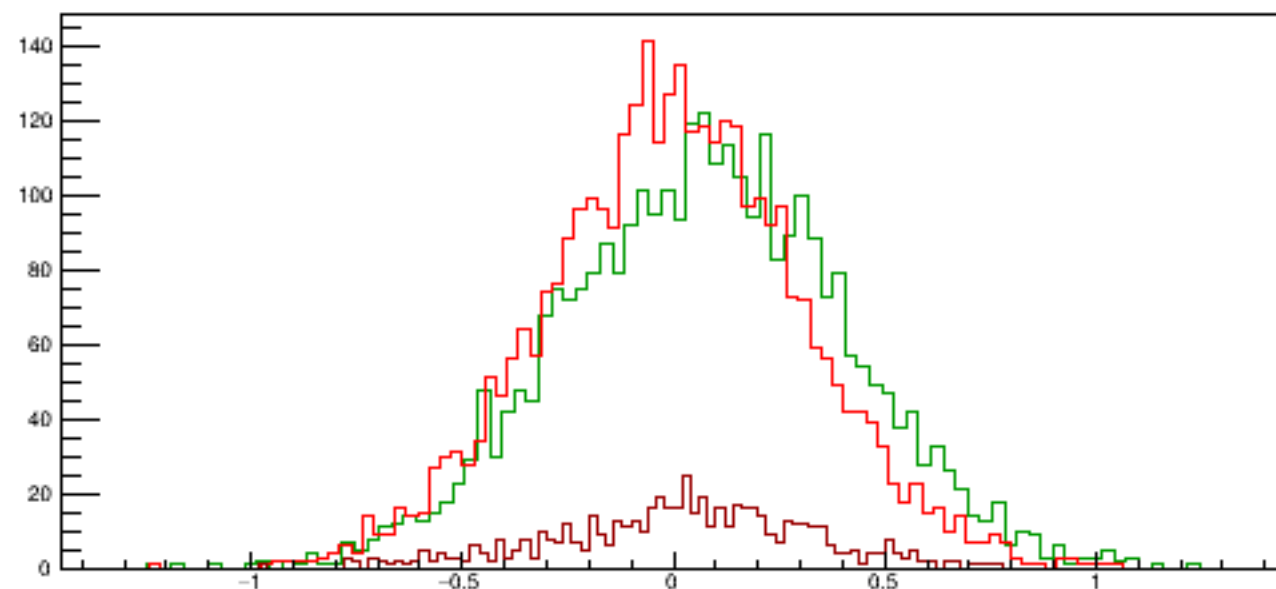
Std Dev: 0.3371 +/- 0.0042

Entries: 562

Mean: 0.0153 +/- 0.0127

Std Dev: 0.3012 +/- 0.0090

Run 4413 quartetwise, Diffs



## Cycle 16, Sums

Entries: 3506

Mean: 13.8697 +/- 0.0059

Std Dev: 0.3518 +/- 0.0042

Entries: 3182

Mean: 18.8058 +/- 0.0069

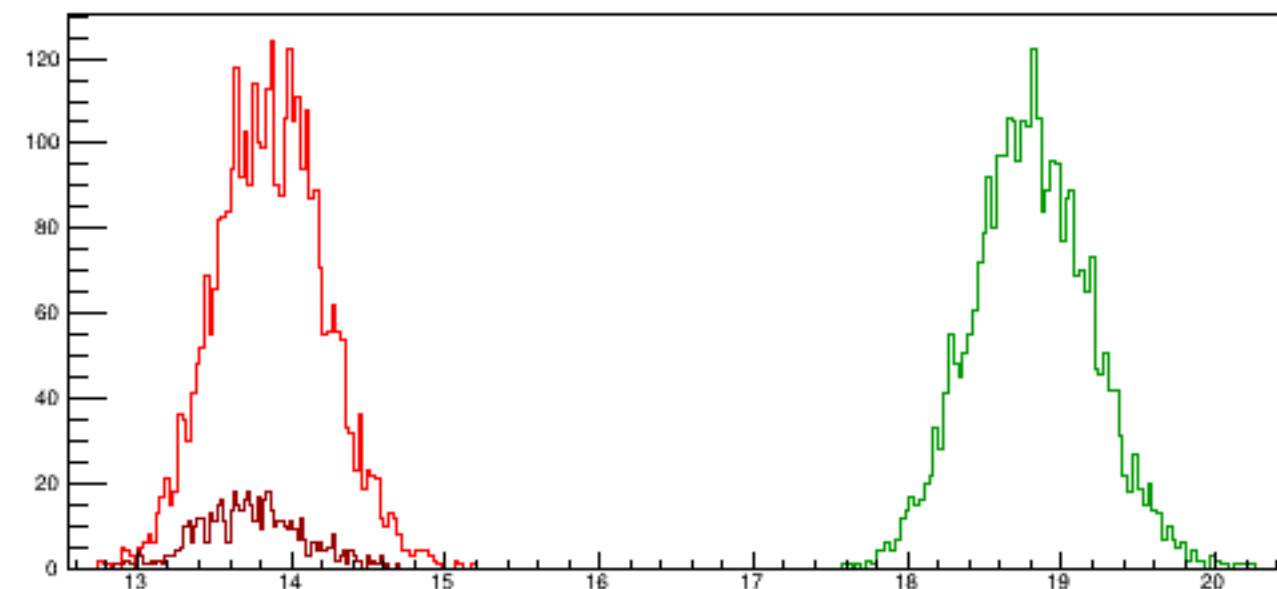
Std Dev: 0.3881 +/- 0.0049

Entries: 562

Mean: 13.7404 +/- 0.0143

Std Dev: 0.3385 +/- 0.0101

Run 4413 quartetwise, Sums



## Cycle 16, Asyms

Entries: 3506

Mean: -0.0002 +/- 0.0010

Std Dev: 0.0610 +/- 0.0007

Entries: 3182

Mean: 0.0142 +/- 0.0012

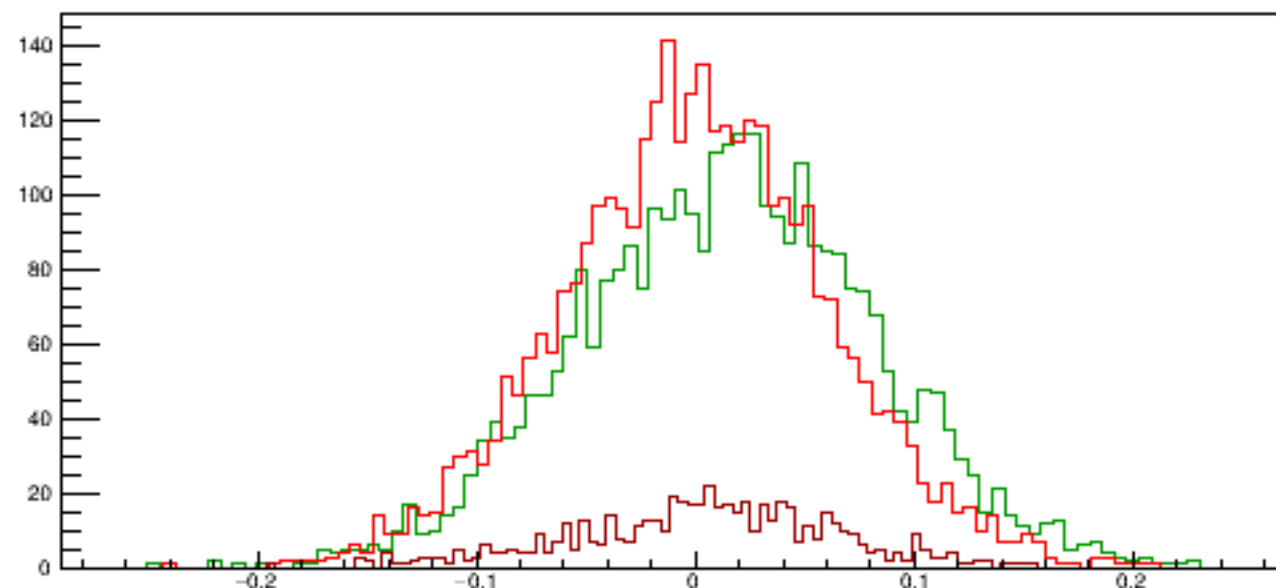
Std Dev: 0.0675 +/- 0.0008

Entries: 562

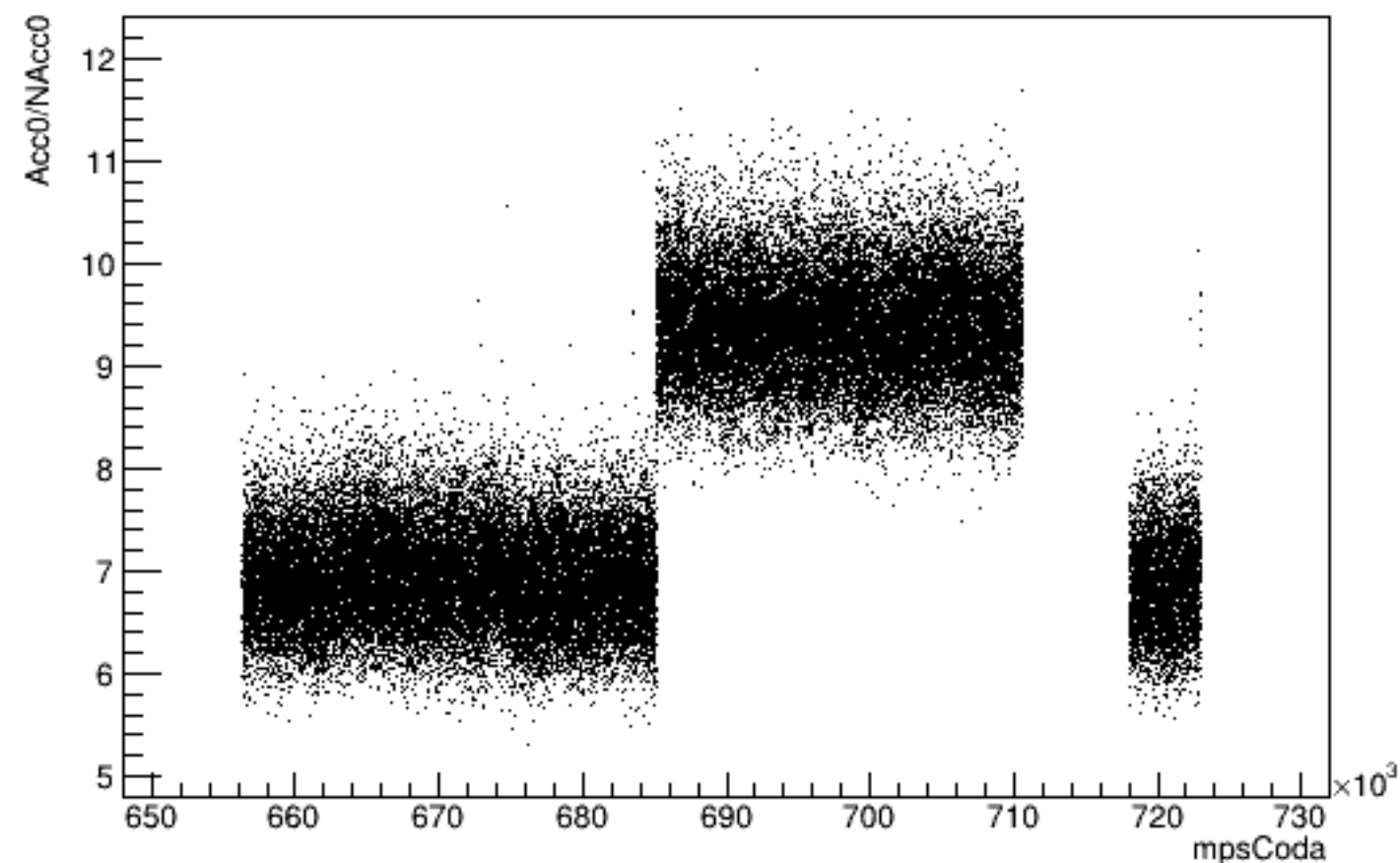
Mean: 0.0031 +/- 0.0025

Std Dev: 0.0602 +/- 0.0018

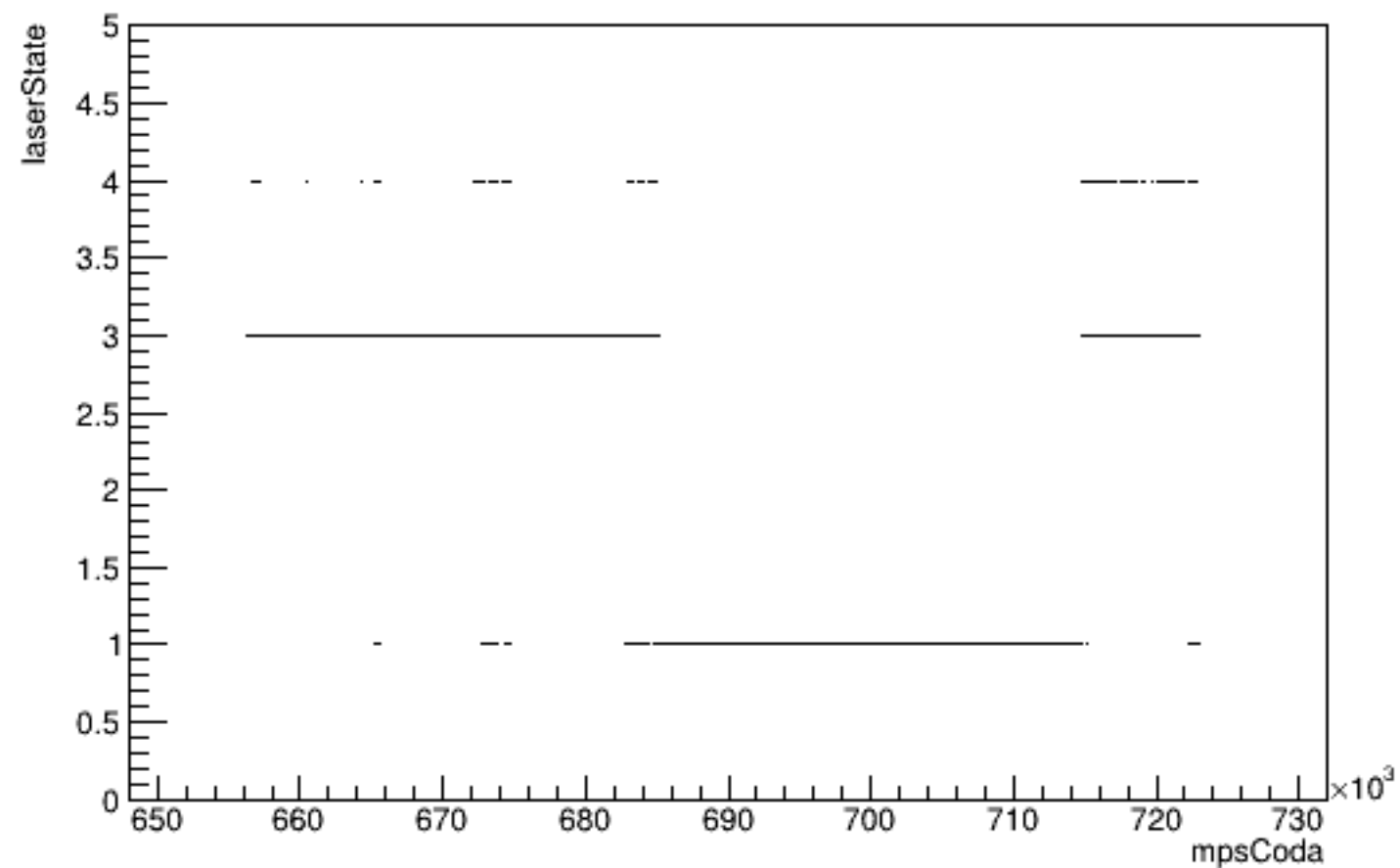
Run 4413 quartetwise, Asyms



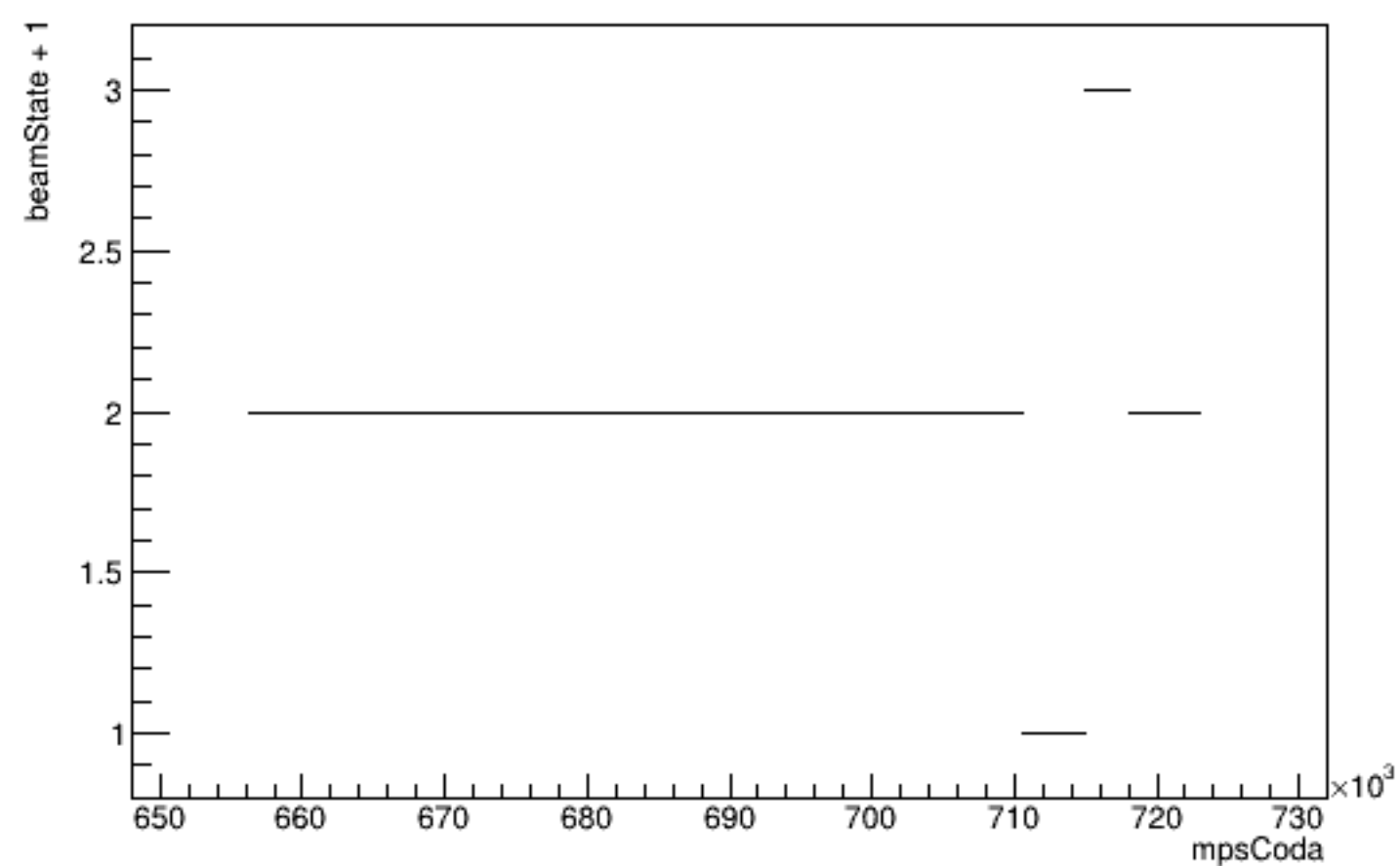
Acc0/NAcc0:mpsCoda (mpsCoda>=656329 && mpsCoda<=722984 && beamState==1)



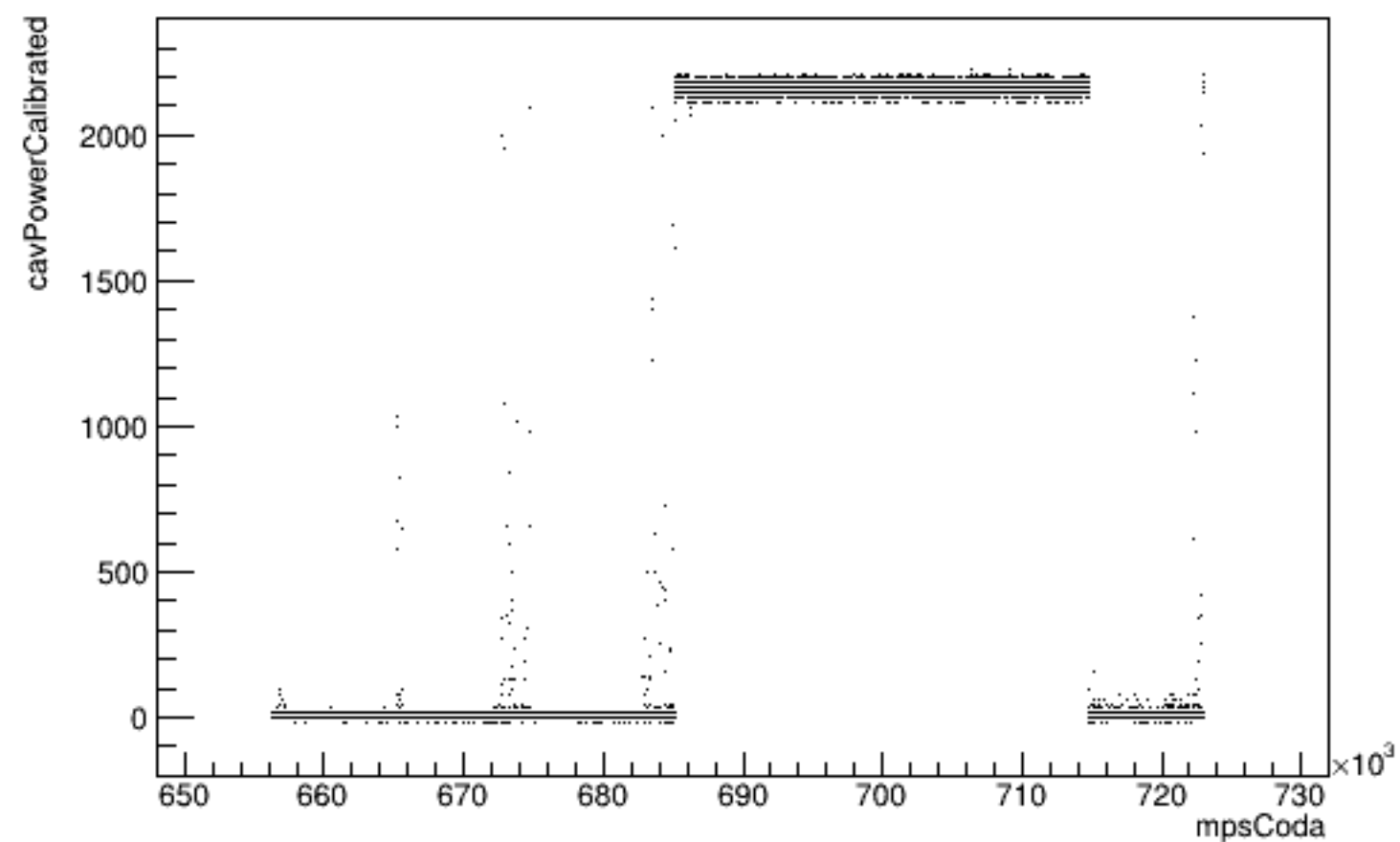
laserState:mpsCoda {mpsCoda&gt;=656329 &amp;&amp; mpsCoda&lt;=722984}



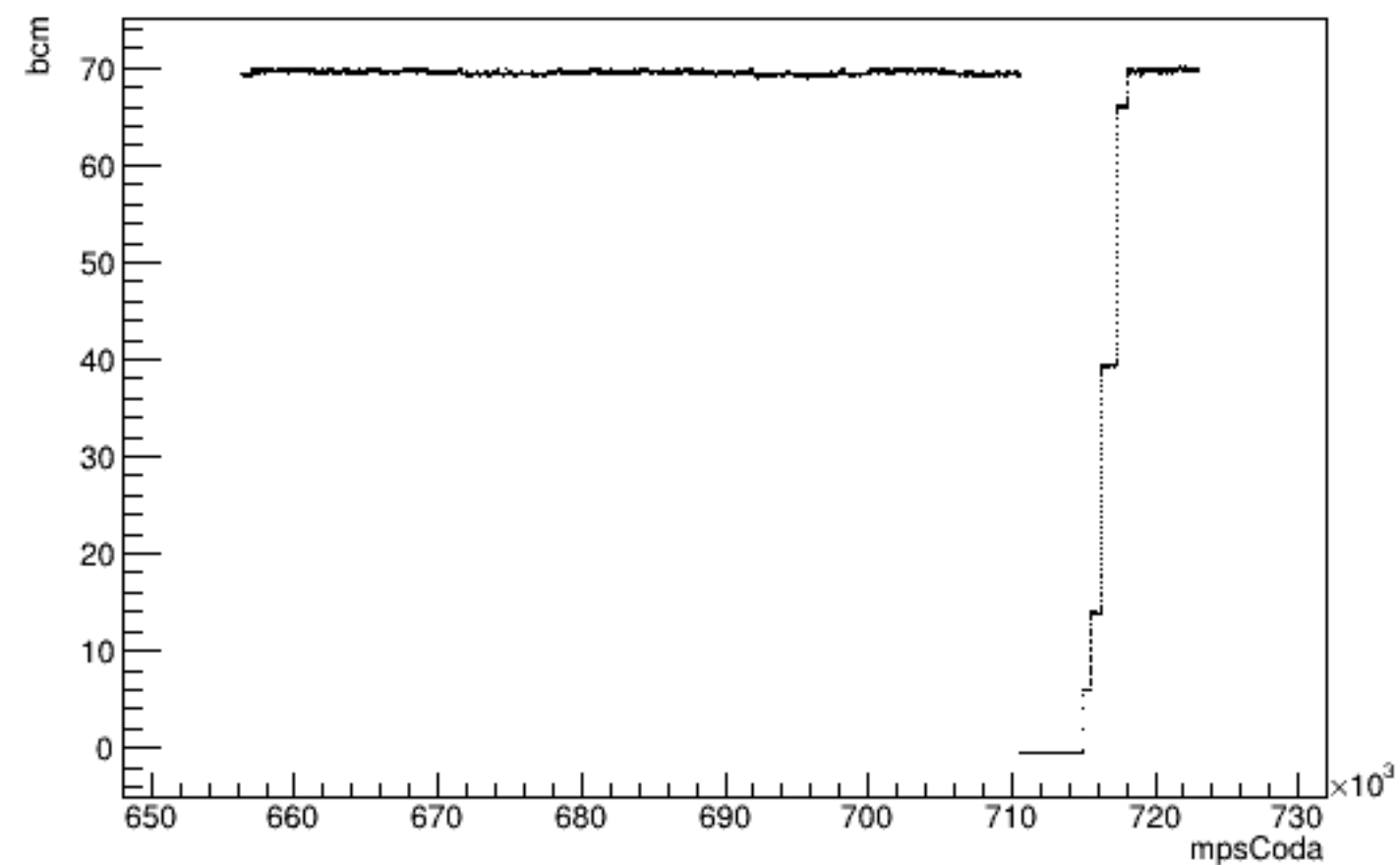
beamState + 1:mpsCoda {mpsCoda&gt;=656329 &amp;&amp; mpsCoda&lt;=722984}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=656329 &amp;&amp; mpsCoda&lt;=722984}



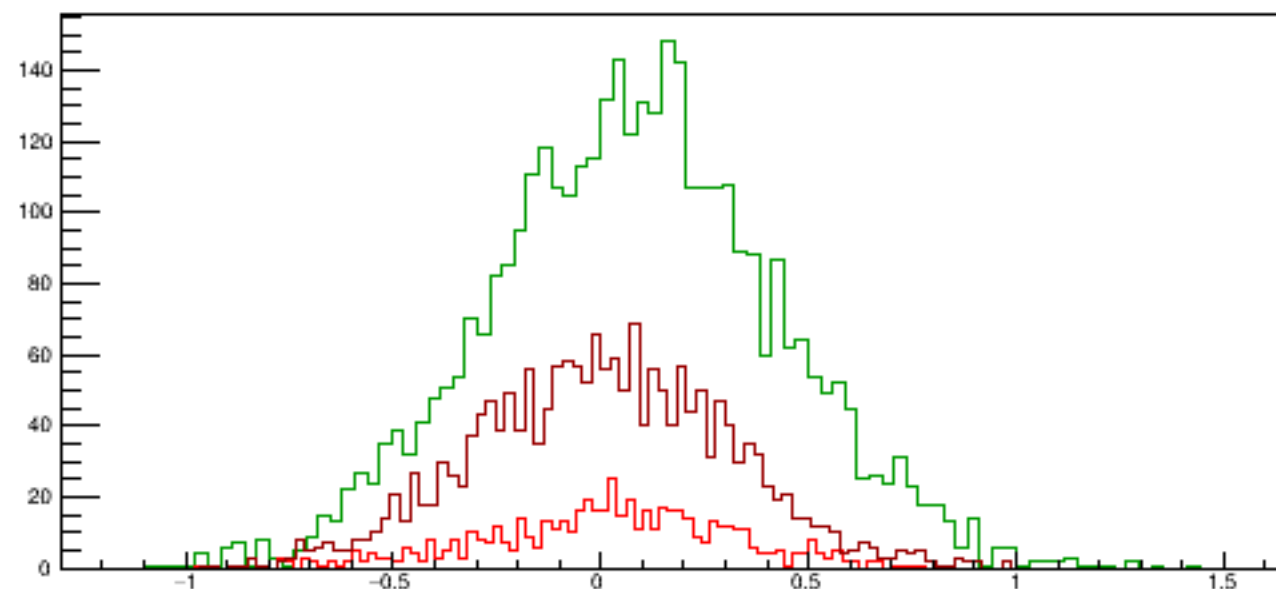
bcm:mpsCoda {mpsCoda&gt;=656329 &amp;&amp; mpsCoda&lt;=722984}



## Cycle 17, Diffs

| Entries: 562               | Entries: 3770              | Entries: 1911              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0153 +/- 0.0127    | Mean: 0.0788 +/- 0.0057    | Mean: 0.0038 +/- 0.0070    |
| Std Dev: 0.3012 +/- 0.0090 | Std Dev: 0.3491 +/- 0.0040 | Std Dev: 0.3059 +/- 0.0049 |

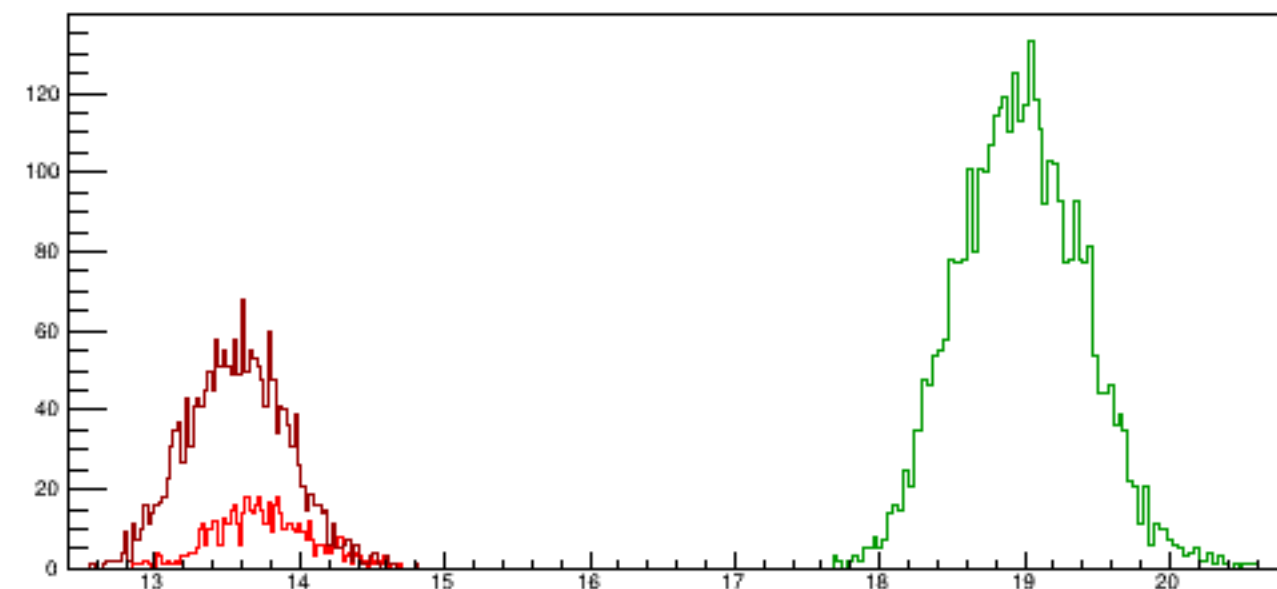
Run 4413 quartetwise, Diffs



## Cycle 17, Sums

| Entries: 562               | Entries: 3770              | Entries: 1911              |
|----------------------------|----------------------------|----------------------------|
| Mean: 13.7404 +/- 0.0143   | Mean: 18.9717 +/- 0.0070   | Mean: 13.5678 +/- 0.0079   |
| Std Dev: 0.3385 +/- 0.0101 | Std Dev: 0.4319 +/- 0.0050 | Std Dev: 0.3468 +/- 0.0056 |

Run 4413 quartetwise, Sums

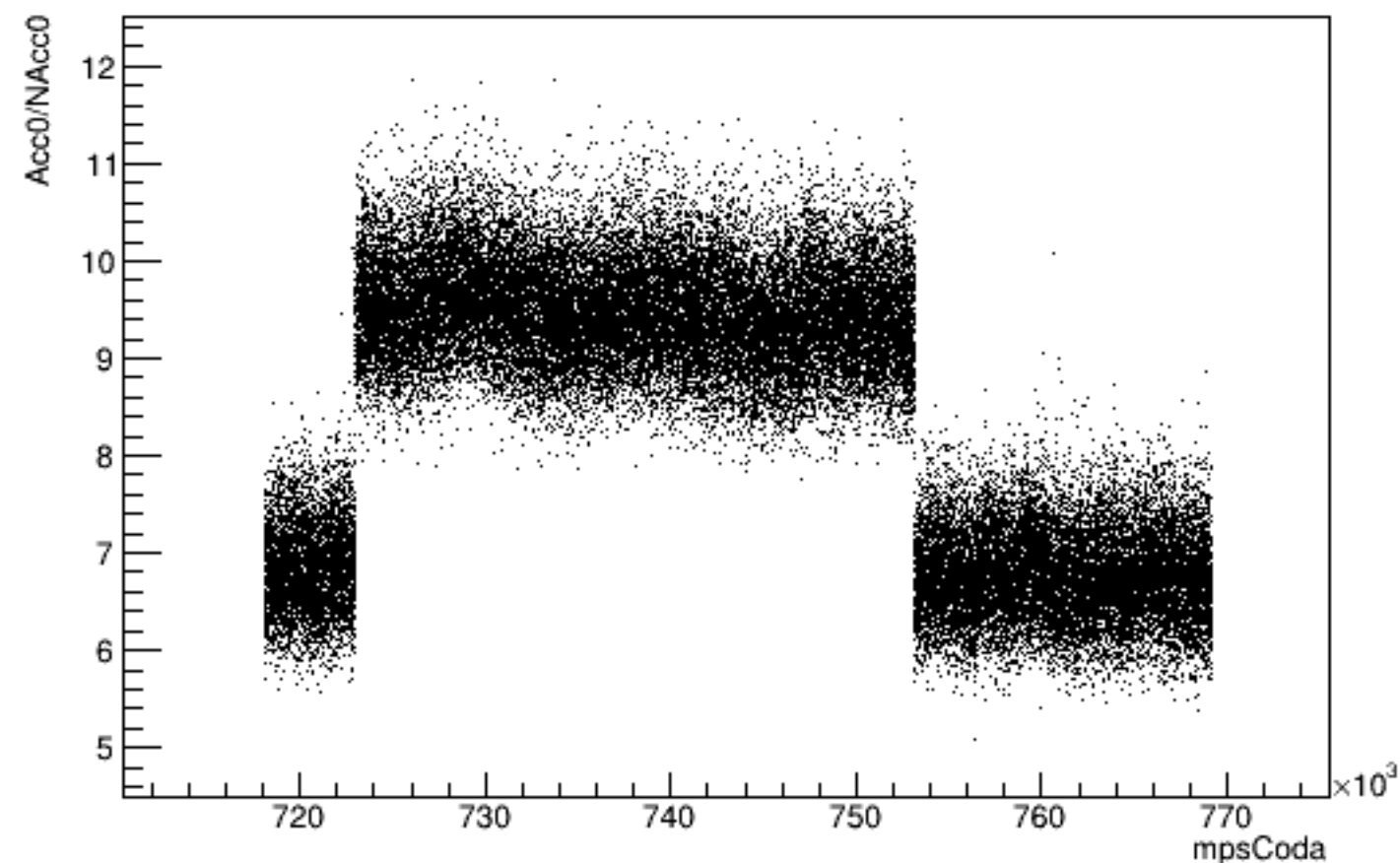
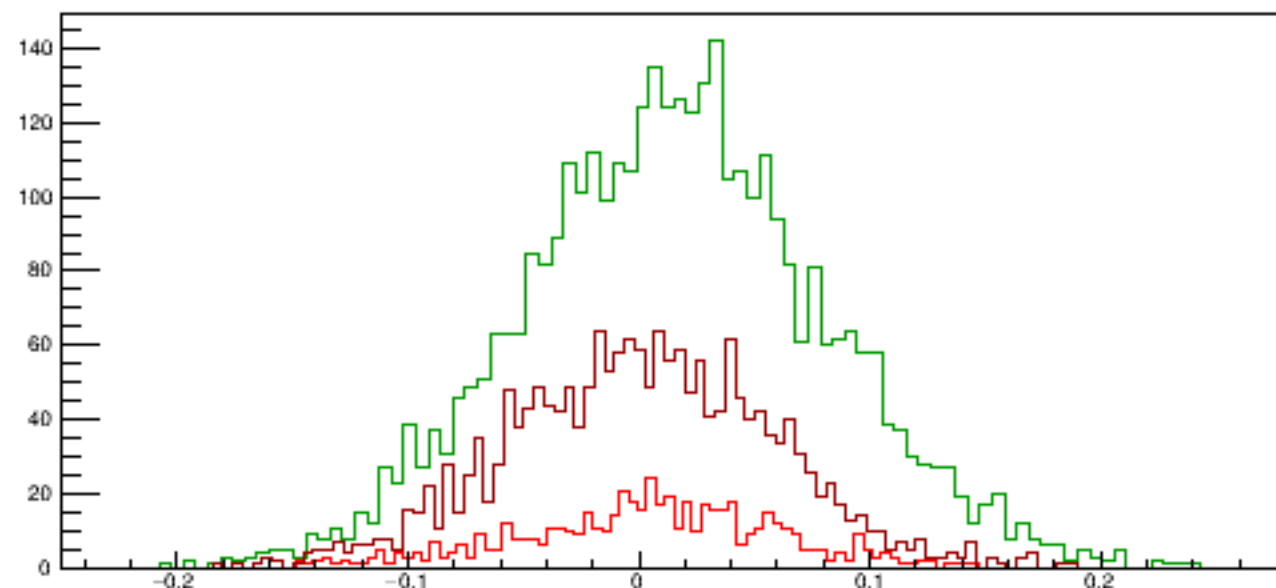


Acc0/NAcc0:mpsCoda (mpsCoda>=714729 && mpsCoda<=769192 && beamState==1)

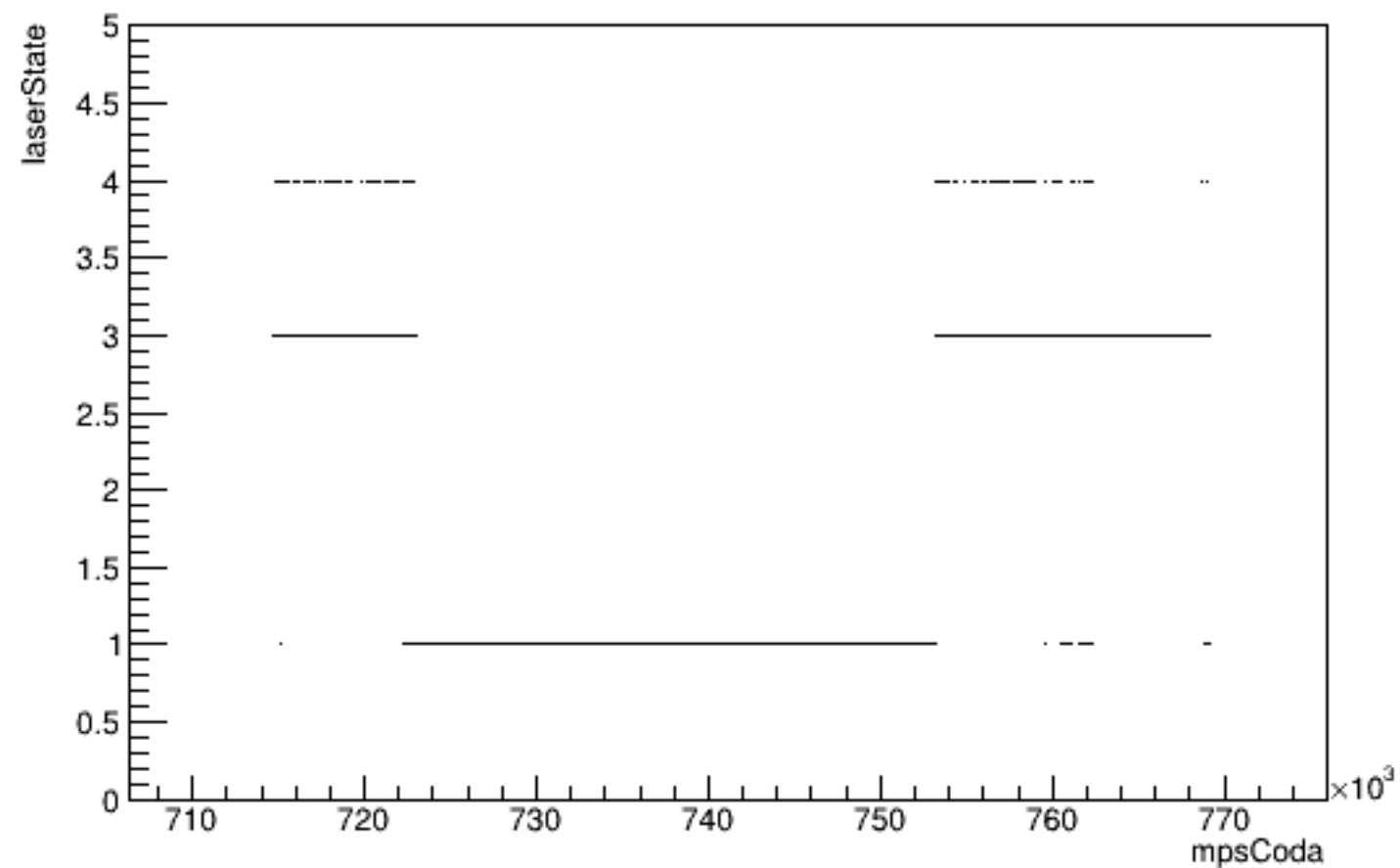
## Cycle 17, Asyms

| Entries: 562               | Entries: 3770              | Entries: 1911              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0029 +/- 0.0024    | Mean: 0.0150 +/- 0.0011    | Mean: 0.0007 +/- 0.0013    |
| Std Dev: 0.0566 +/- 0.0017 | Std Dev: 0.0659 +/- 0.0008 | Std Dev: 0.0575 +/- 0.0009 |

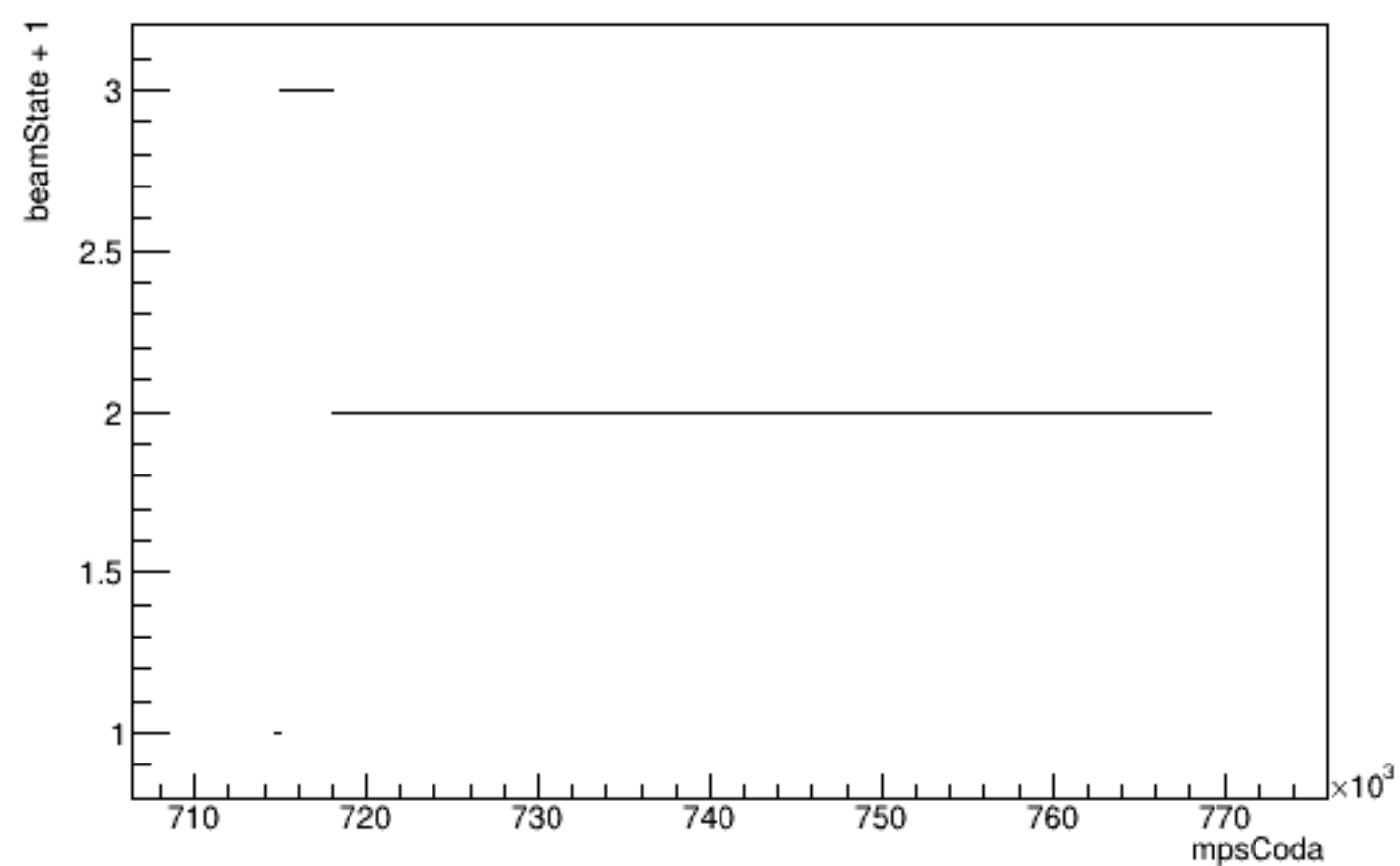
Run 4413 quartetwise, Asyms



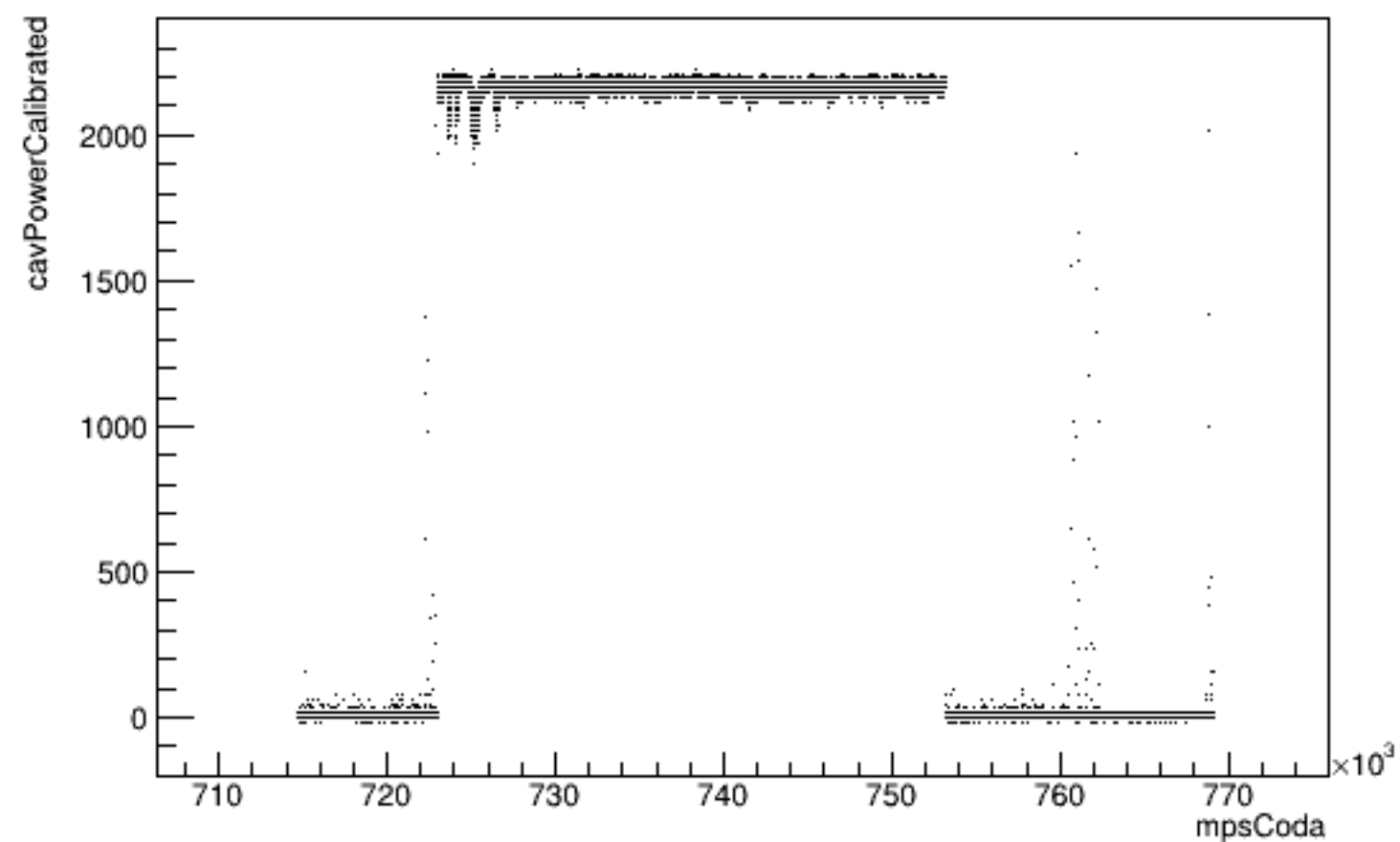
laserState:mpsCoda {mpsCoda&gt;=714729 &amp;&amp; mpsCoda&lt;=769192}



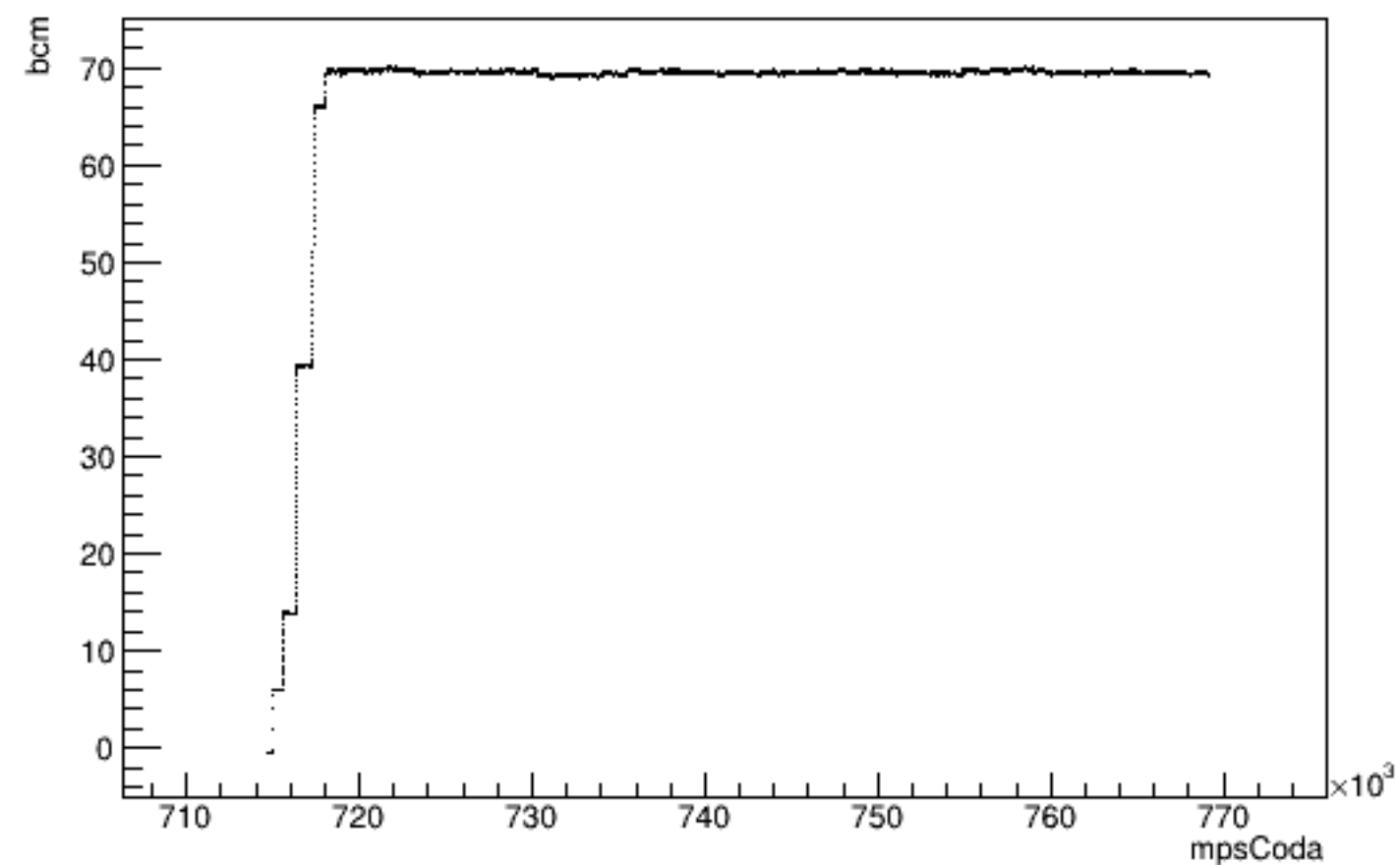
beamState + 1:mpsCoda {mpsCoda&gt;=714729 &amp;&amp; mpsCoda&lt;=769192}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=714729 &amp;&amp; mpsCoda&lt;=769192}



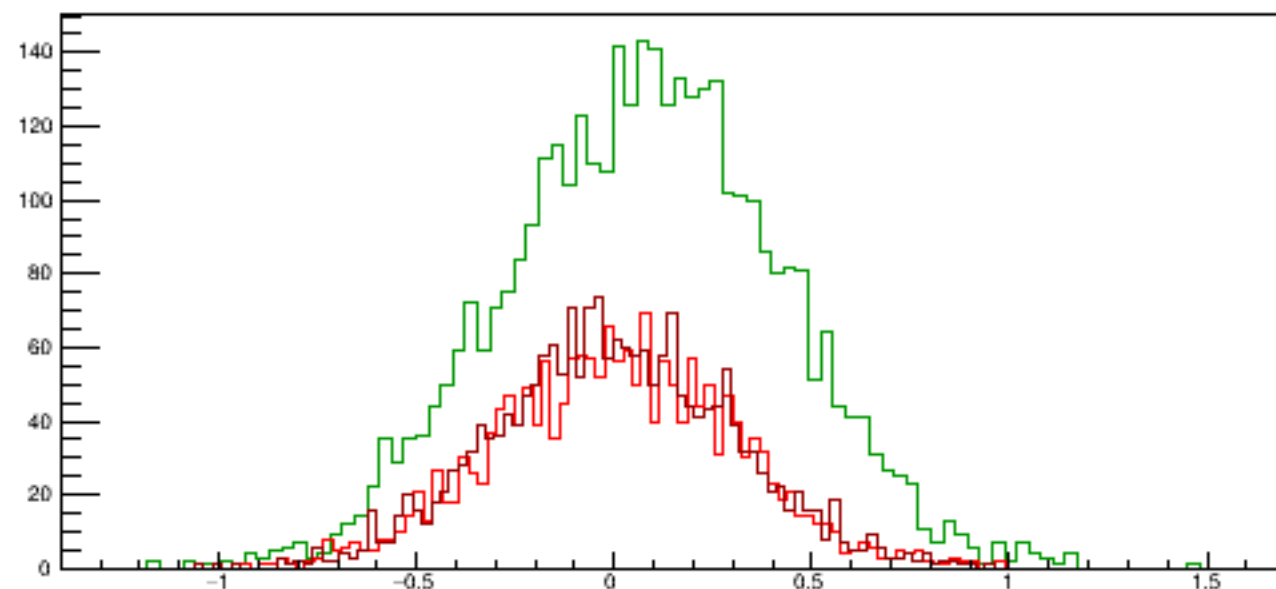
bcm:mpsCoda {mpsCoda&gt;=714729 &amp;&amp; mpsCoda&lt;=769192}



## Cycle 18, Diffs

| Entries: 1911              | Entries: 3767              | Entries: 2048              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0038 +/- 0.0070    | Mean: 0.0738 +/- 0.0057    | Mean: -0.0021 +/- 0.0066   |
| Std Dev: 0.3059 +/- 0.0049 | Std Dev: 0.3503 +/- 0.0040 | Std Dev: 0.2996 +/- 0.0047 |

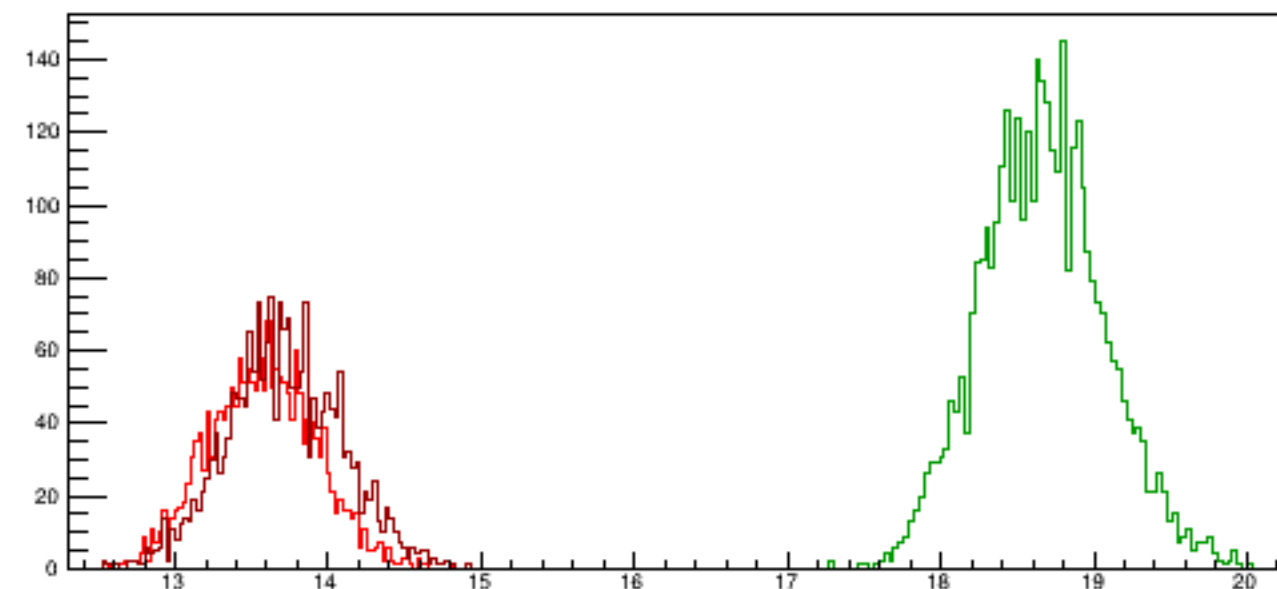
Run 4413 quartetwise, Diffs



## Cycle 18, Sums

| Entries: 1911              | Entries: 3767              | Entries: 2048              |
|----------------------------|----------------------------|----------------------------|
| Mean: 13.5678 +/- 0.0079   | Mean: 18.6667 +/- 0.0065   | Mean: 13.7088 +/- 0.0082   |
| Std Dev: 0.3468 +/- 0.0056 | Std Dev: 0.4008 +/- 0.0046 | Std Dev: 0.3717 +/- 0.0058 |

Run 4413 quartetwise, Sums

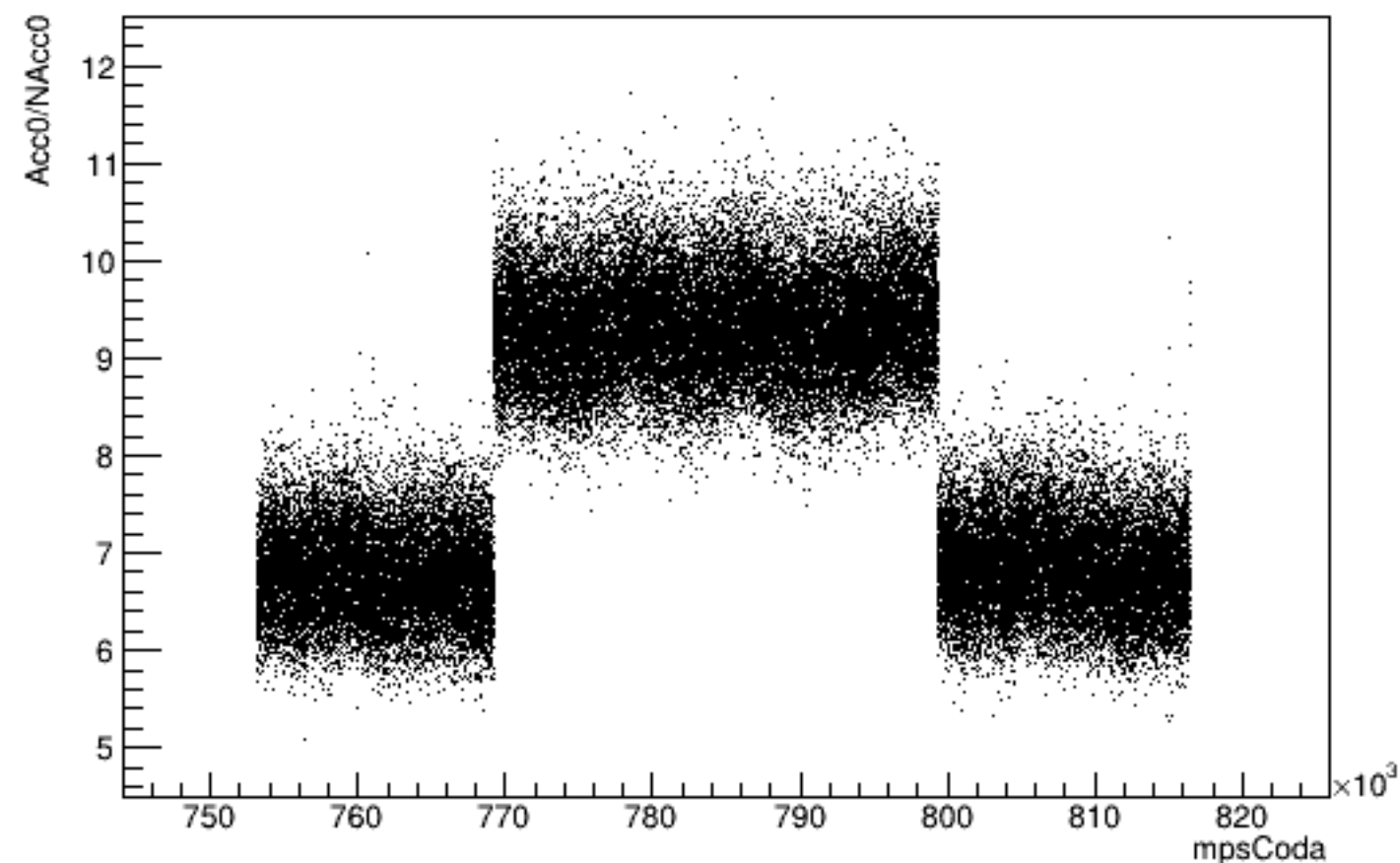
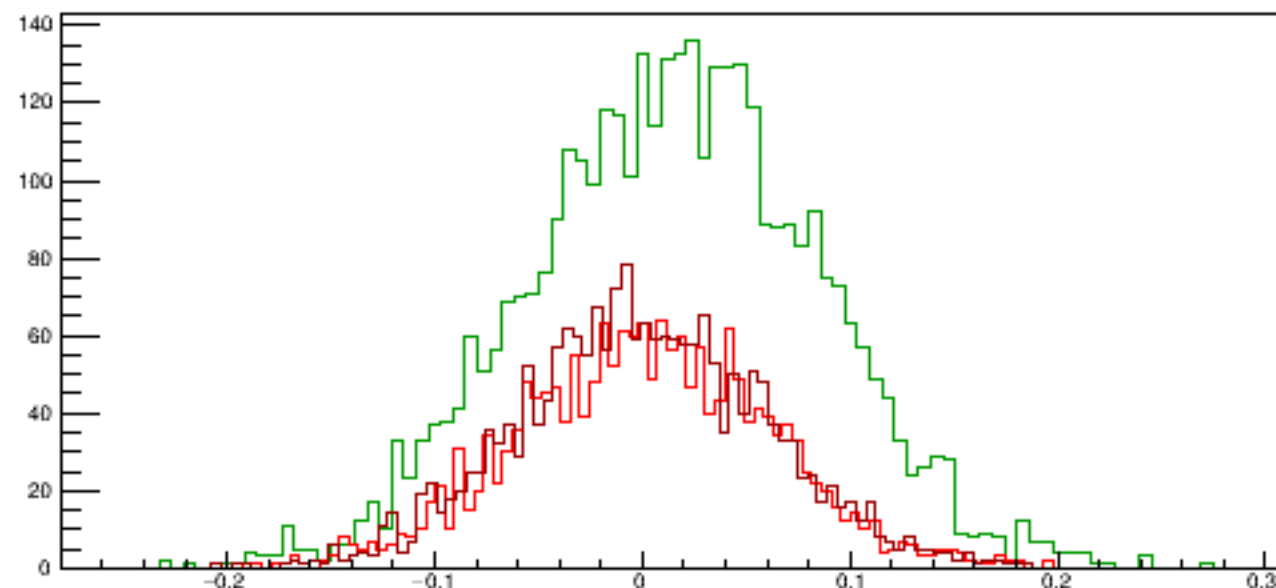


Acc0/NAcc0:mpsCoda (mpsCoda>=753153 && mpsCoda<=816440 && beamState==1)

## Cycle 18, Asyms

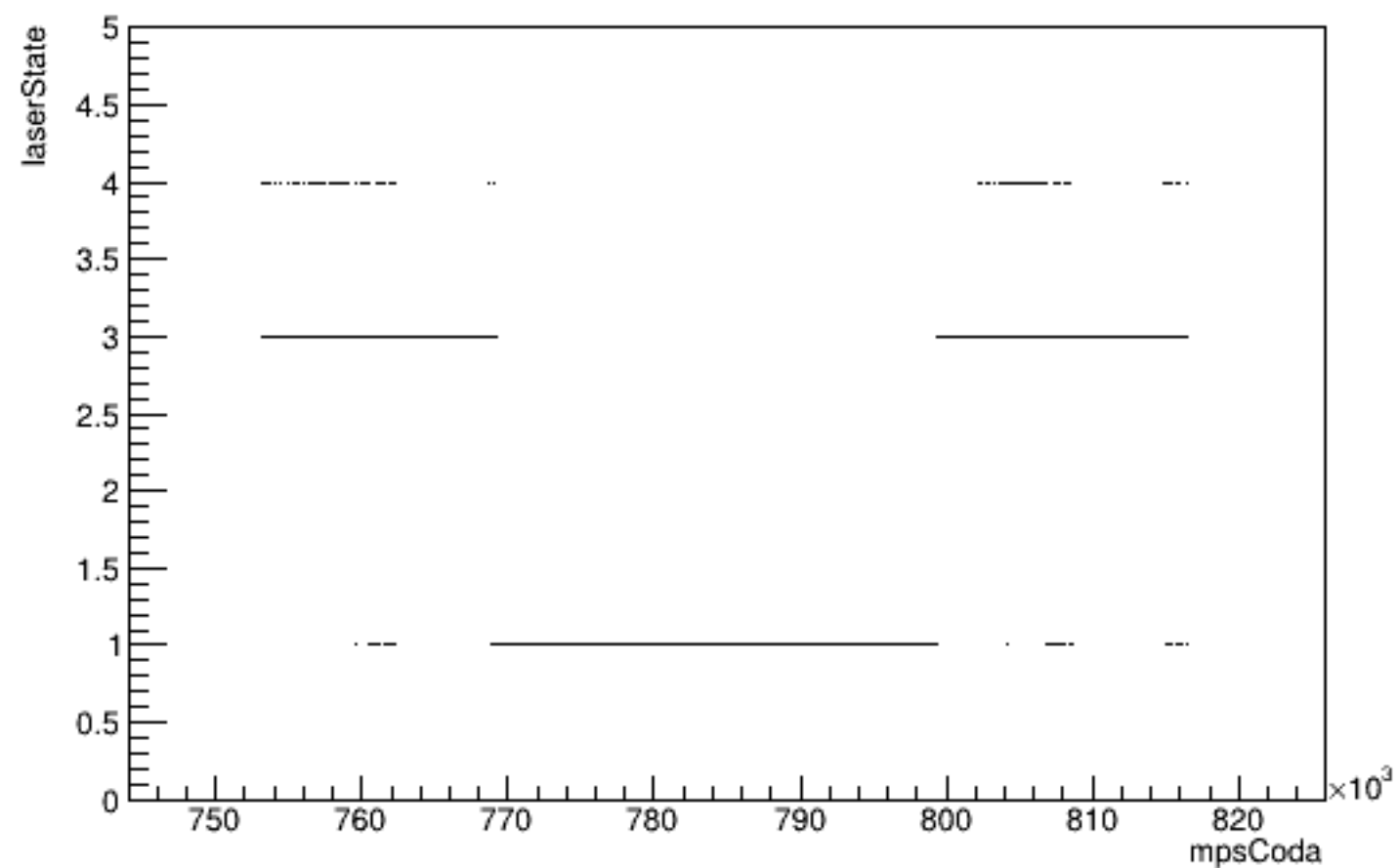
| Entries: 1911              | Entries: 3767              | Entries: 2048              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0008 +/- 0.0014    | Mean: 0.0147 +/- 0.0011    | Mean: -0.0004 +/- 0.0013   |
| Std Dev: 0.0608 +/- 0.0010 | Std Dev: 0.0699 +/- 0.0008 | Std Dev: 0.0596 +/- 0.0009 |

Run 4413 quartetwise, Asyms

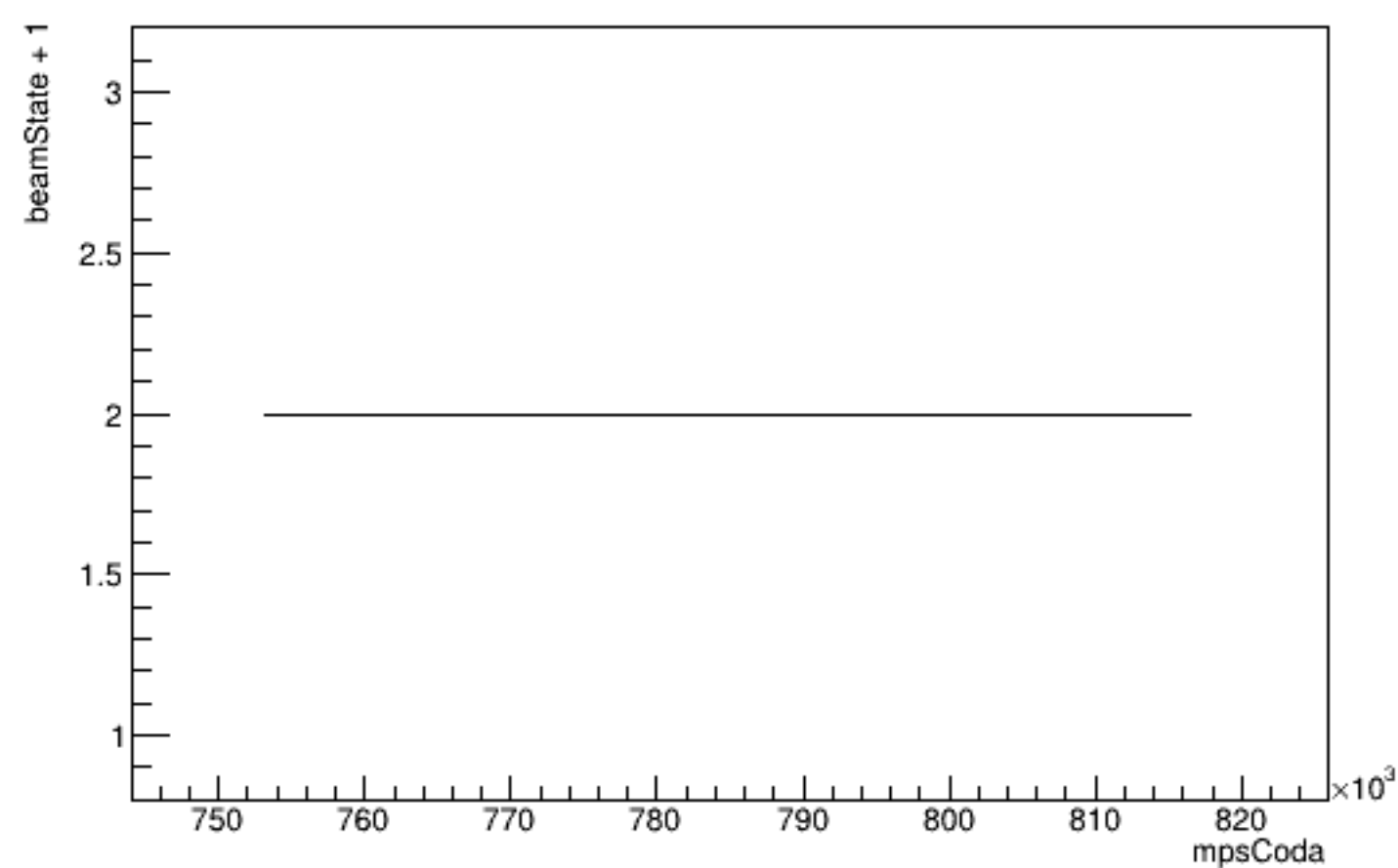




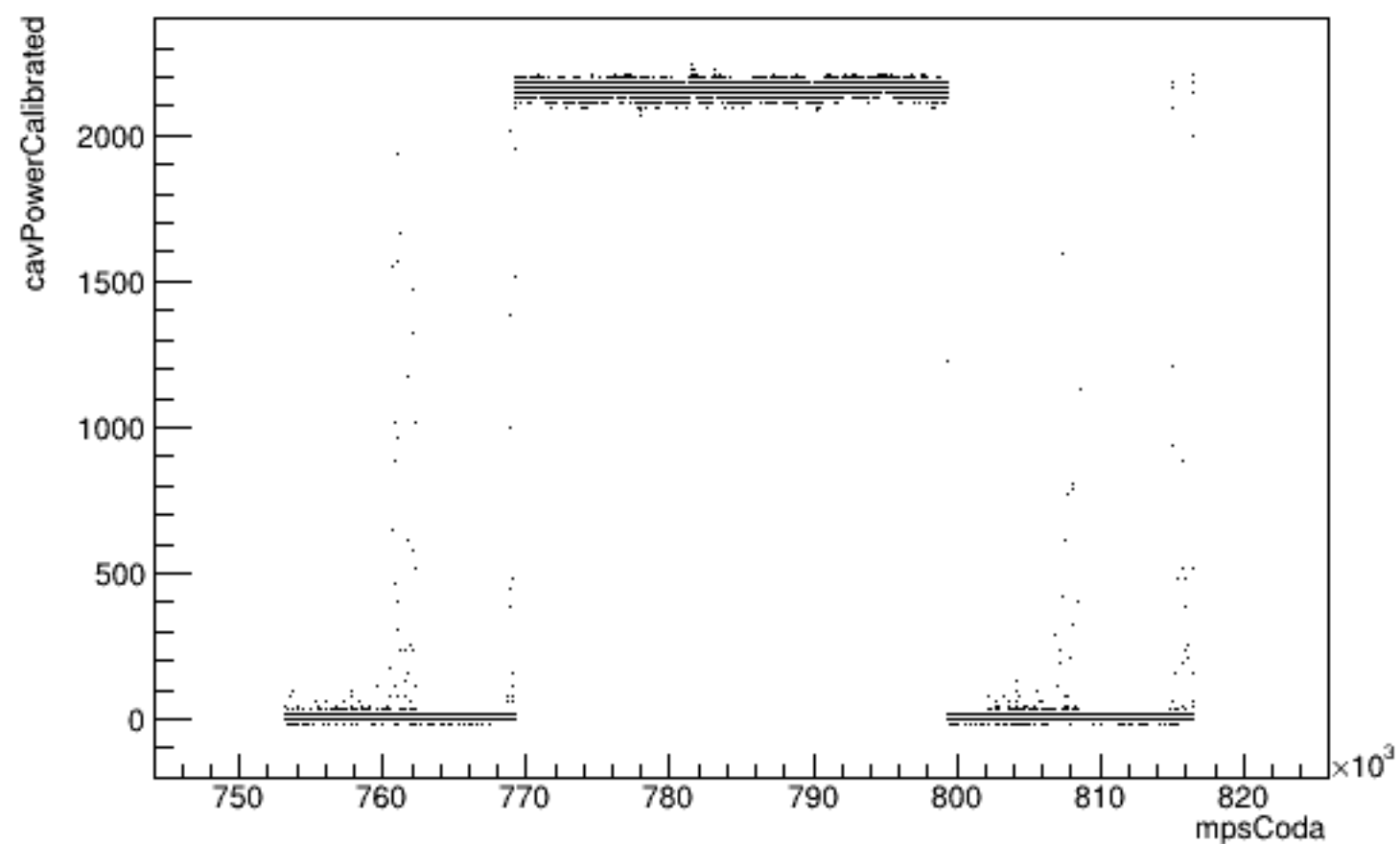
laserState:mpsCoda {mpsCoda&gt;=753153 &amp;&amp; mpsCoda&lt;=816440}



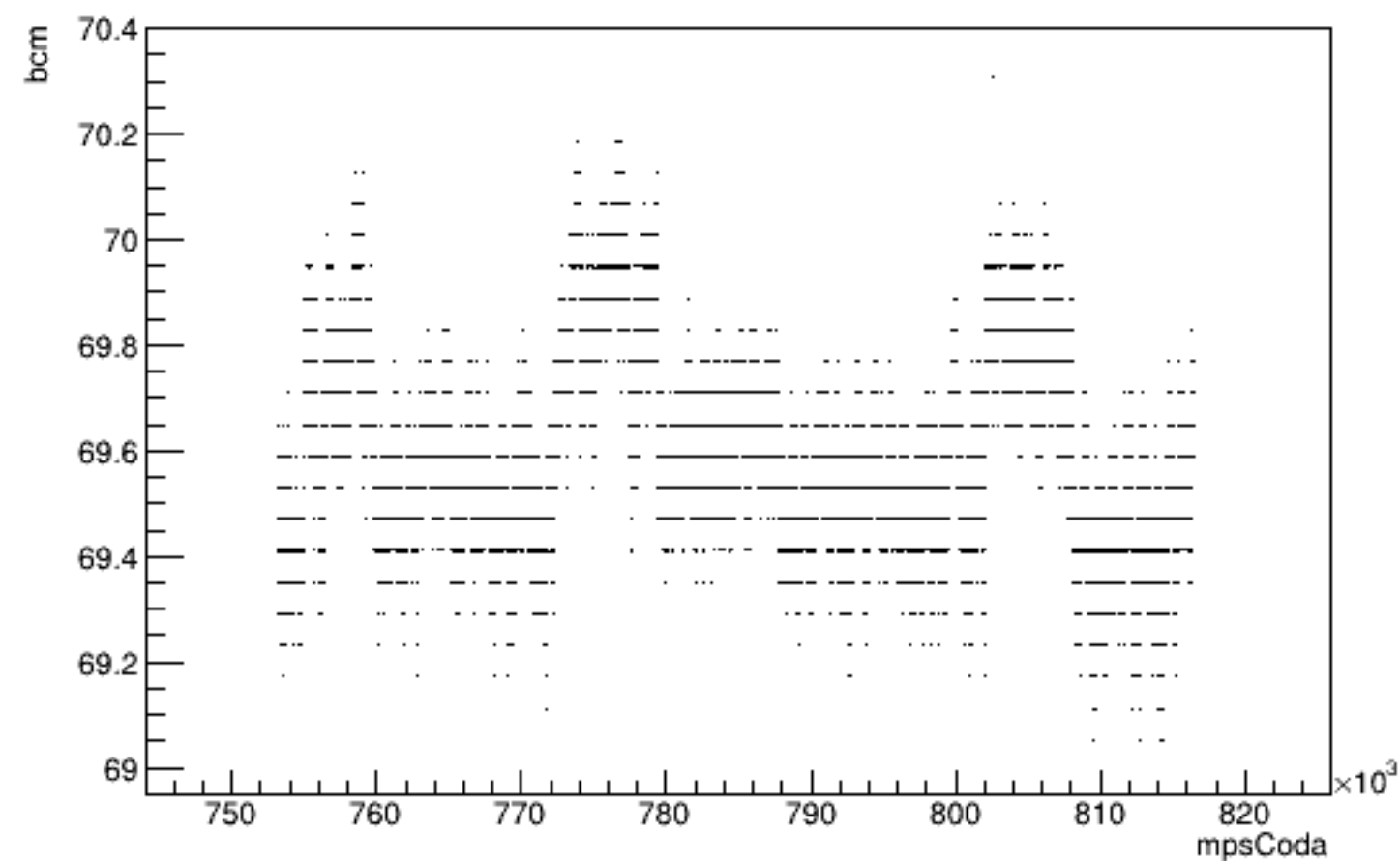
beamState + 1:mpsCoda {mpsCoda&gt;=753153 &amp;&amp; mpsCoda&lt;=816440}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=753153 &amp;&amp; mpsCoda&lt;=816440}



bcm:mpsCoda {mpsCoda&gt;=753153 &amp;&amp; mpsCoda&lt;=816440}





## Cycle 19, Diffs

Entries: 2048

Mean: -0.0021 +/- 0.0066

Std Dev: 0.2996 +/- 0.0047

Entries: 3757

Mean: 0.0919 +/- 0.0056

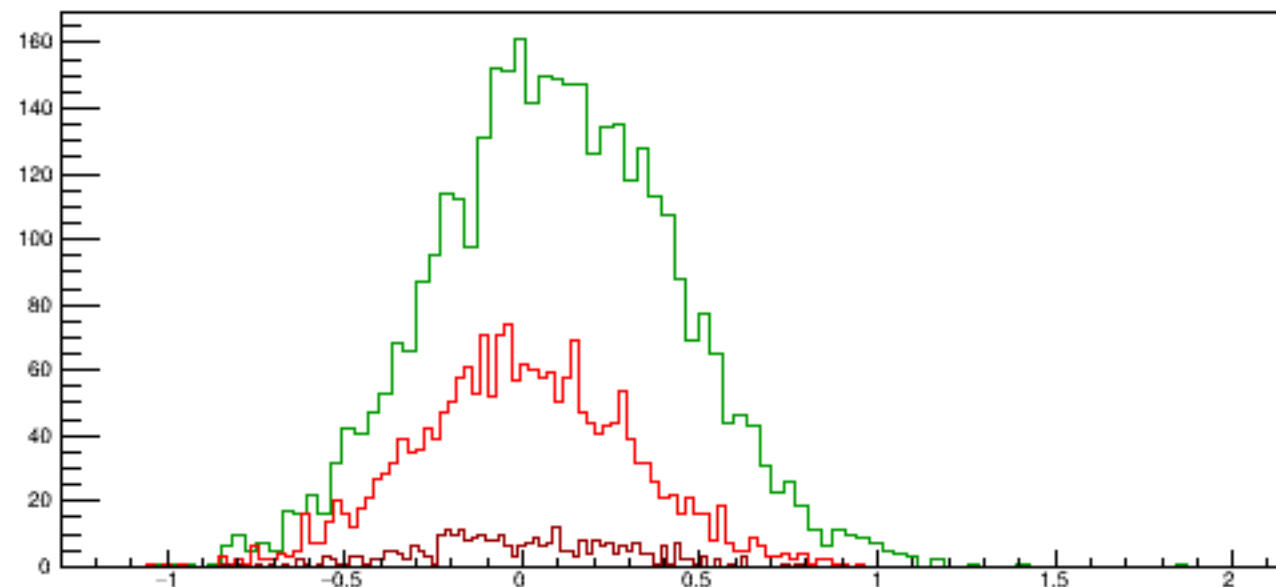
Std Dev: 0.3411 +/- 0.0039

Entries: 316

Mean: -0.0118 +/- 0.0164

Std Dev: 0.2913 +/- 0.0116

Run 4413 quartetwise, Diffs



## Cycle 19, Sums

Entries: 2048

Mean: 13.7088 +/- 0.0082

Std Dev: 0.3717 +/- 0.0058

Entries: 3757

Mean: 18.8567 +/- 0.0065

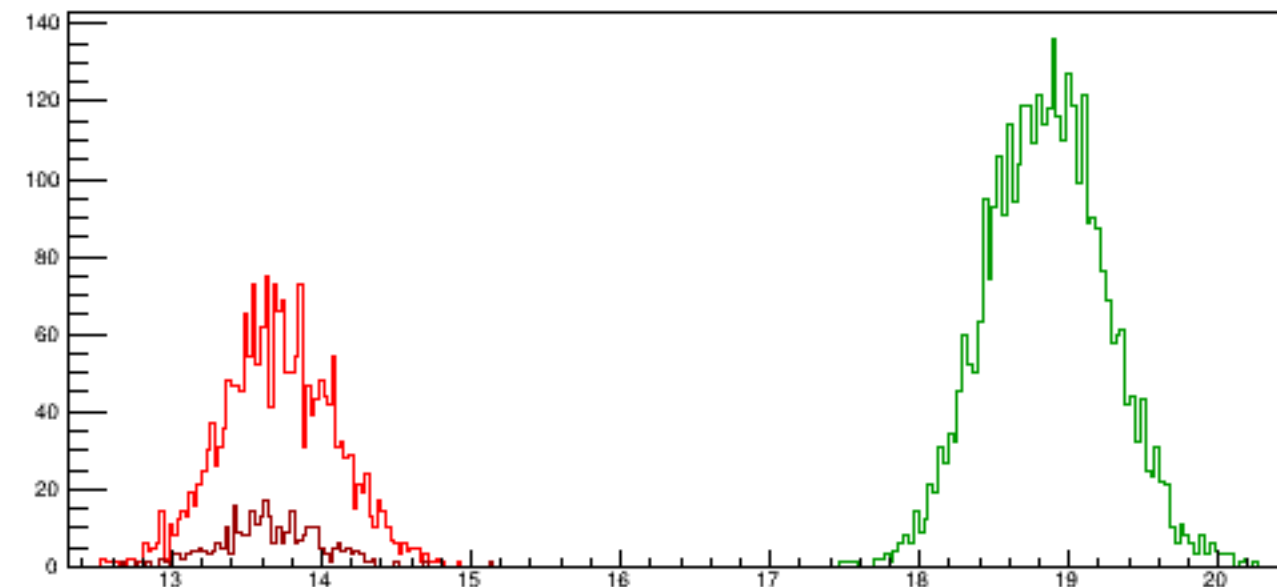
Std Dev: 0.4007 +/- 0.0046

Entries: 316

Mean: 13.6551 +/- 0.0190

Std Dev: 0.3377 +/- 0.0134

Run 4413 quartetwise, Sums



Acc0/NAcc0:mpsCoda (mpsCoda>=799337 && mpsCoda<=854048 && beamState==1)

## Cycle 19, Asyms

Entries: 2048

Mean: -0.0004 +/- 0.0013

Std Dev: 0.0579 +/- 0.0009

Entries: 3757

Mean: 0.0178 +/- 0.0011

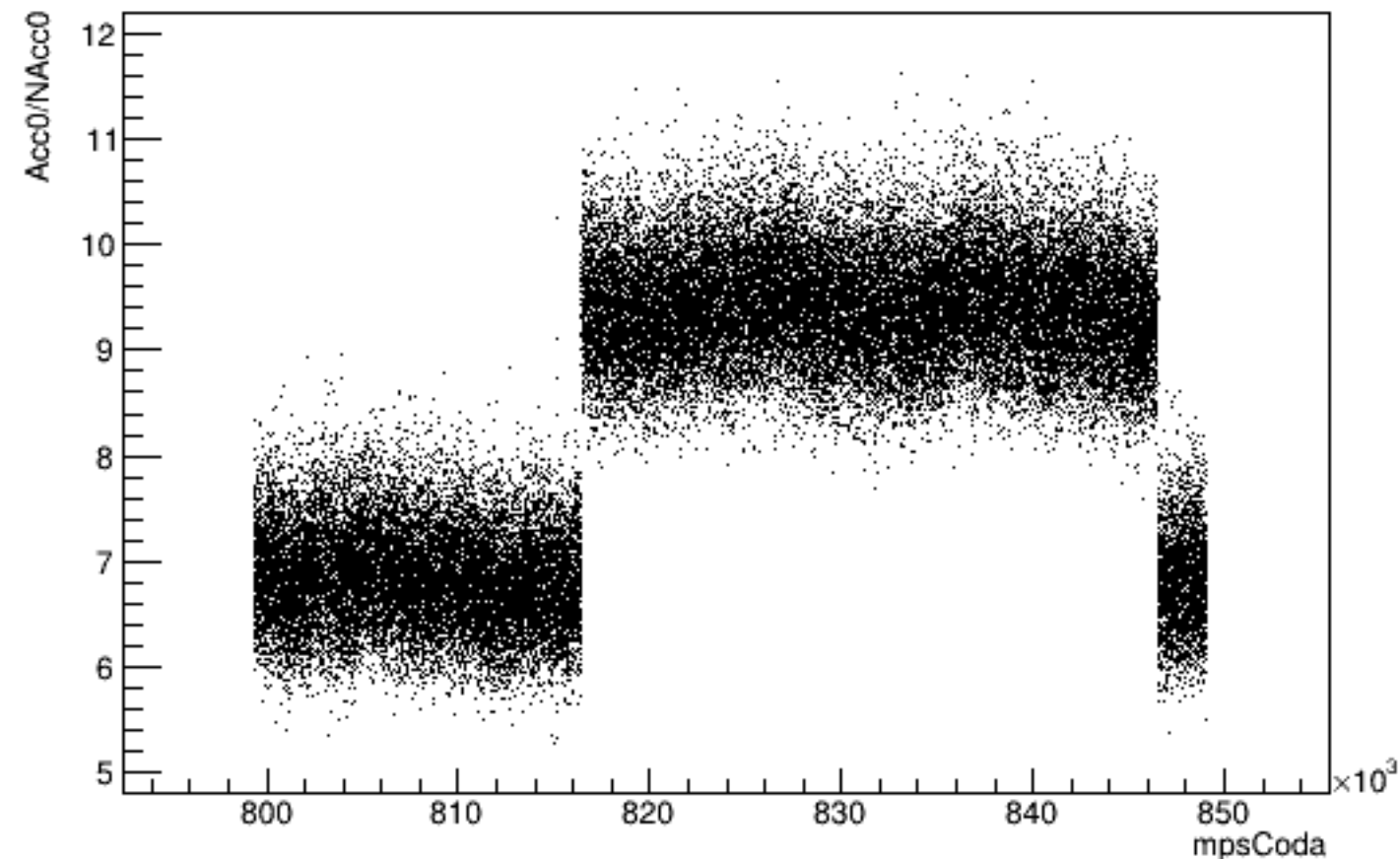
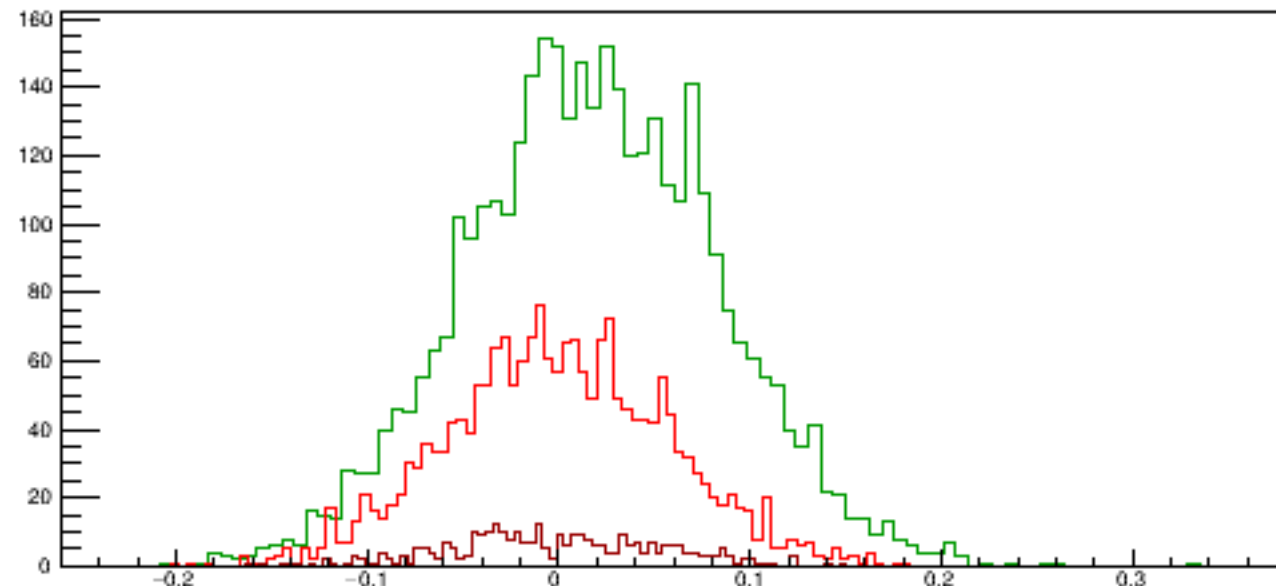
Std Dev: 0.0661 +/- 0.0008

Entries: 316

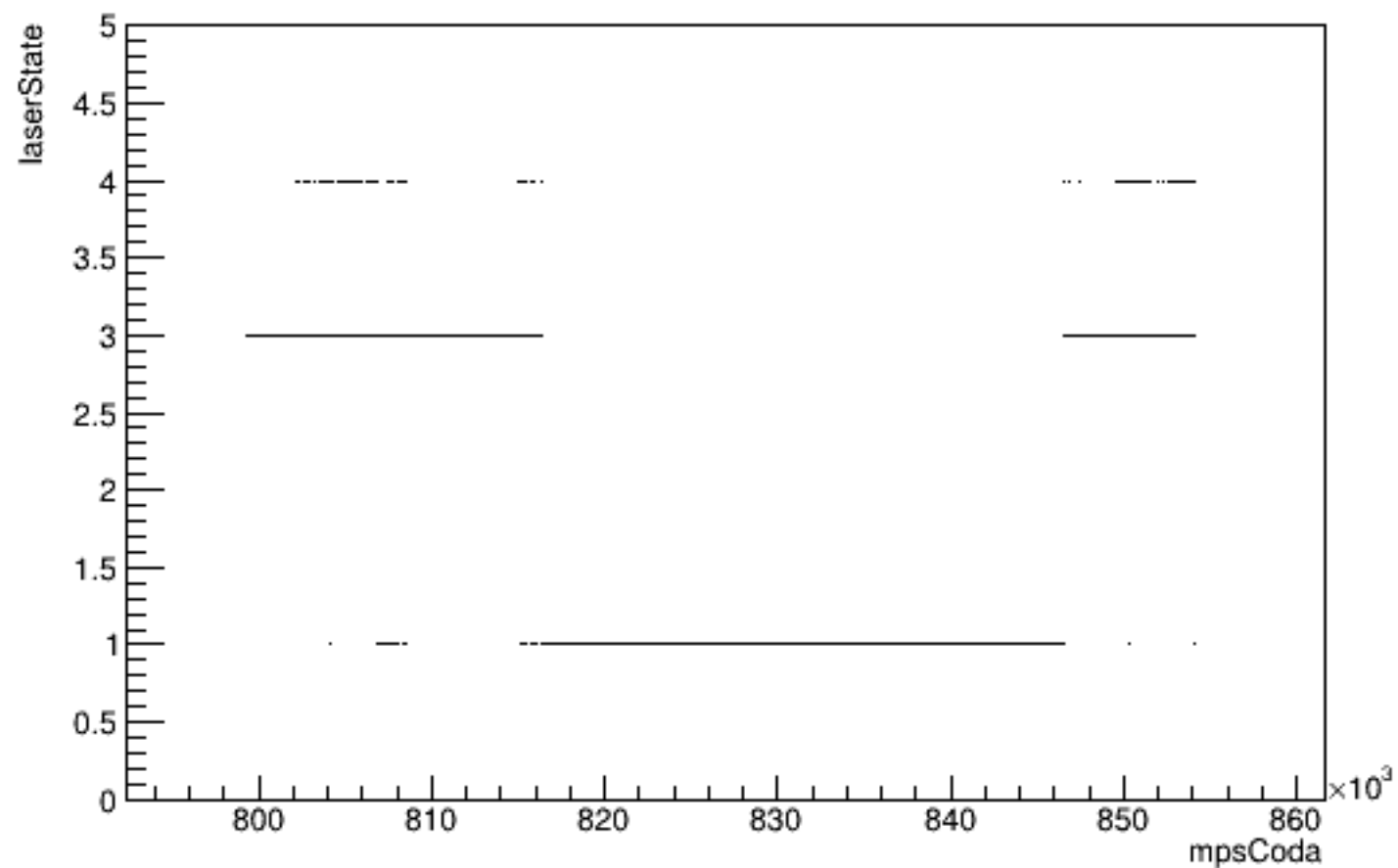
Mean: -0.0023 +/- 0.0032

Std Dev: 0.0563 +/- 0.0022

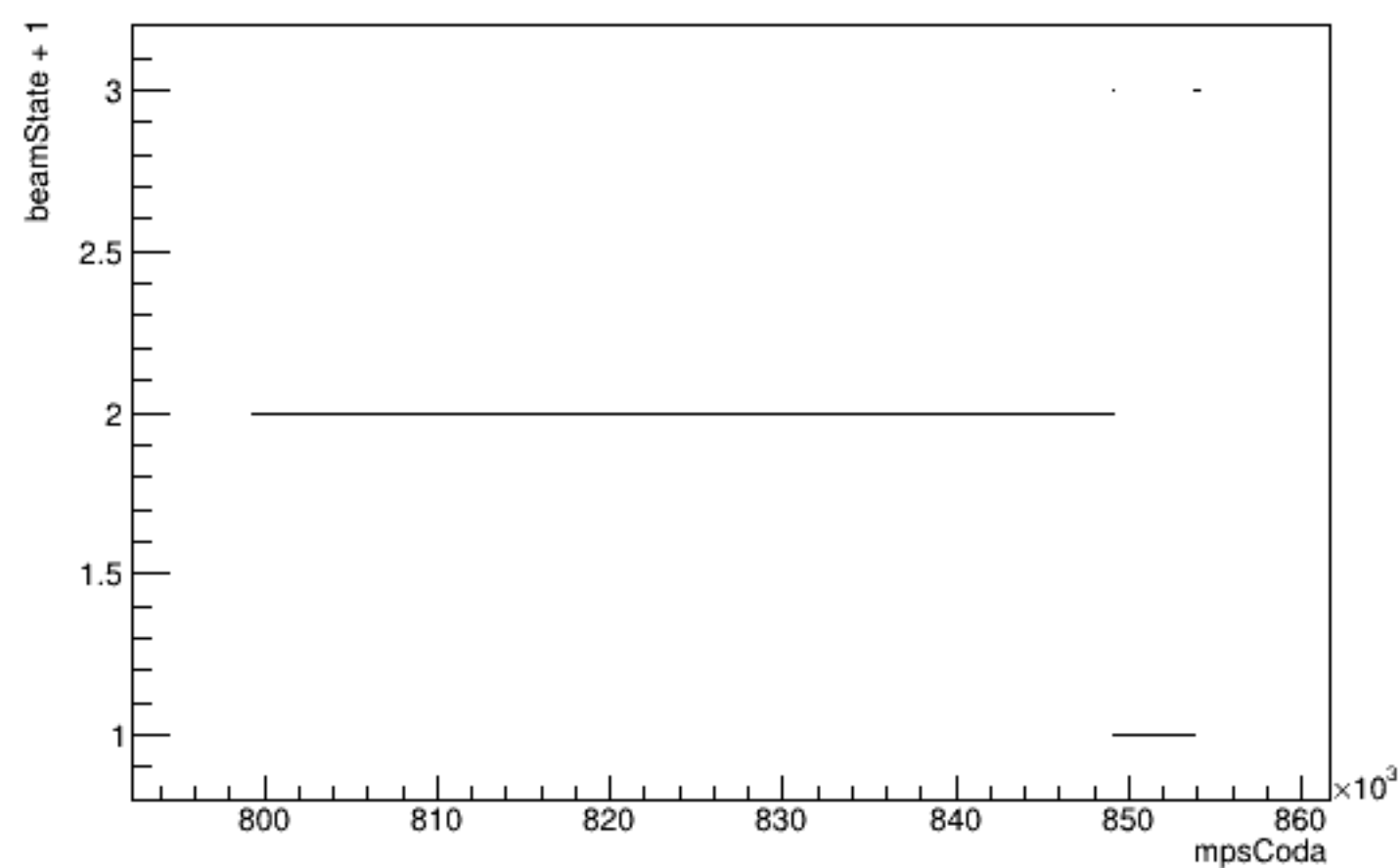
Run 4413 quartetwise, Asyms



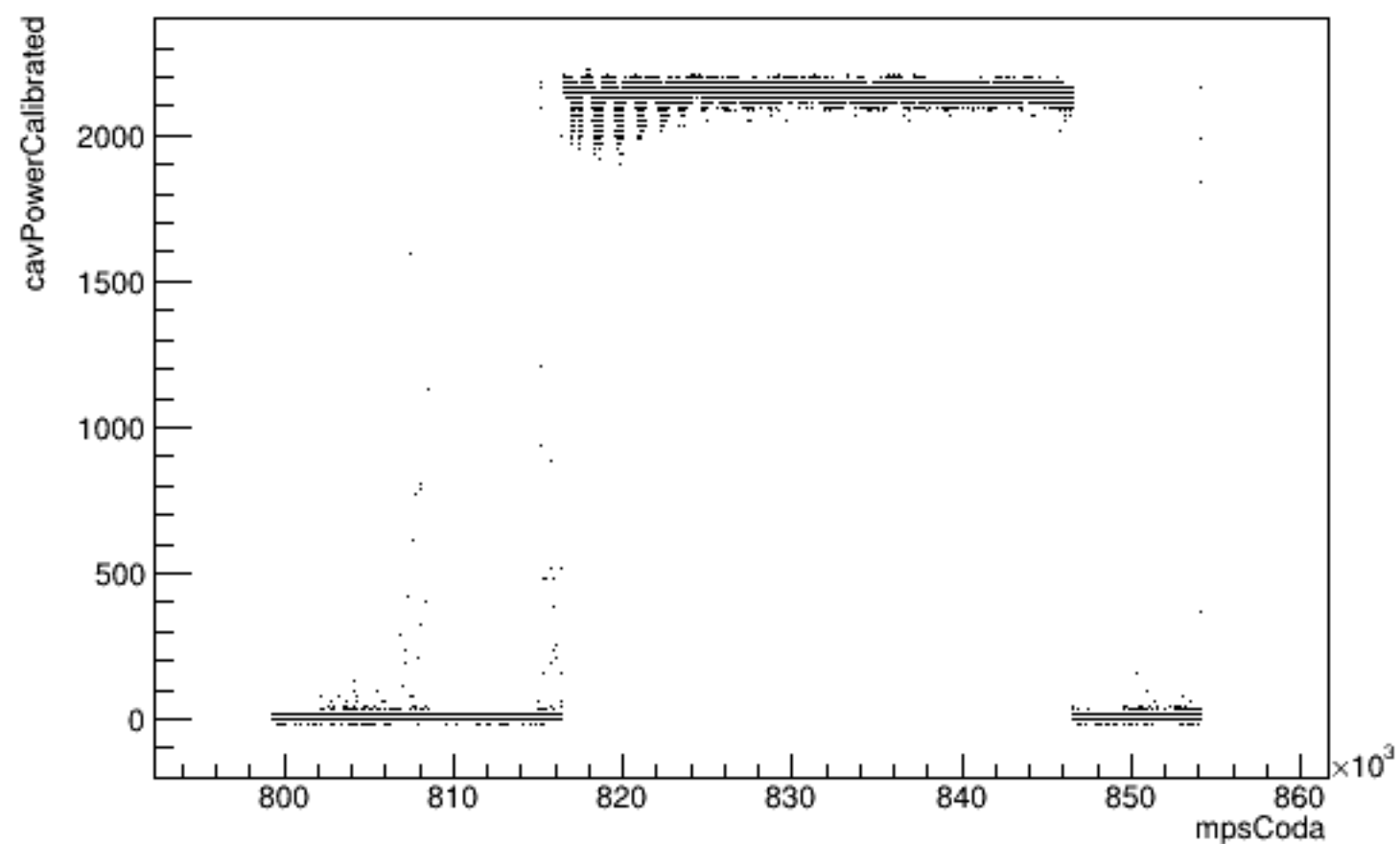
laserState:mpsCoda {mpsCoda&gt;=799337 &amp;&amp; mpsCoda&lt;=854048}



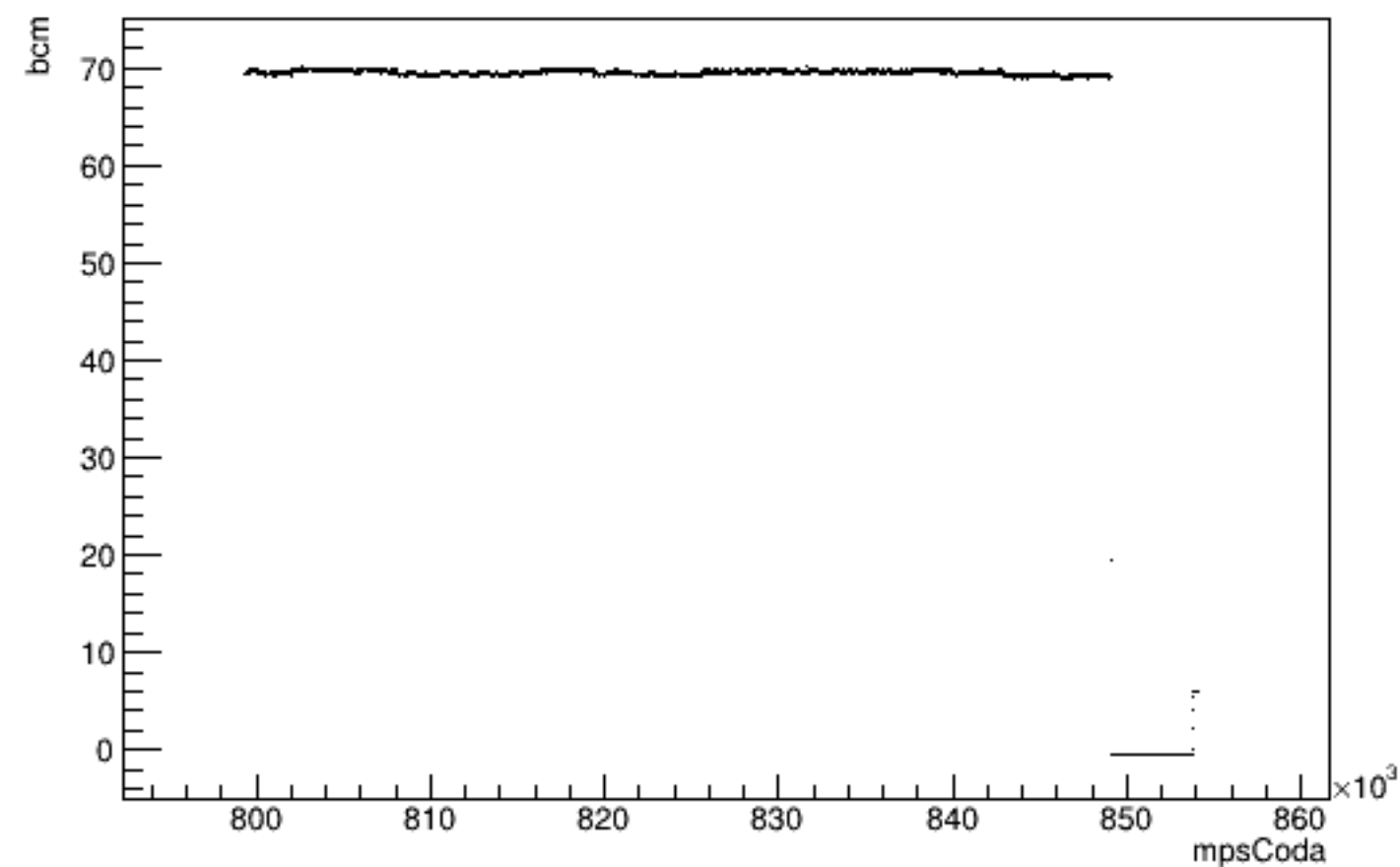
beamState + 1:mpsCoda {mpsCoda&gt;=799337 &amp;&amp; mpsCoda&lt;=854048}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=799337 &amp;&amp; mpsCoda&lt;=854048}



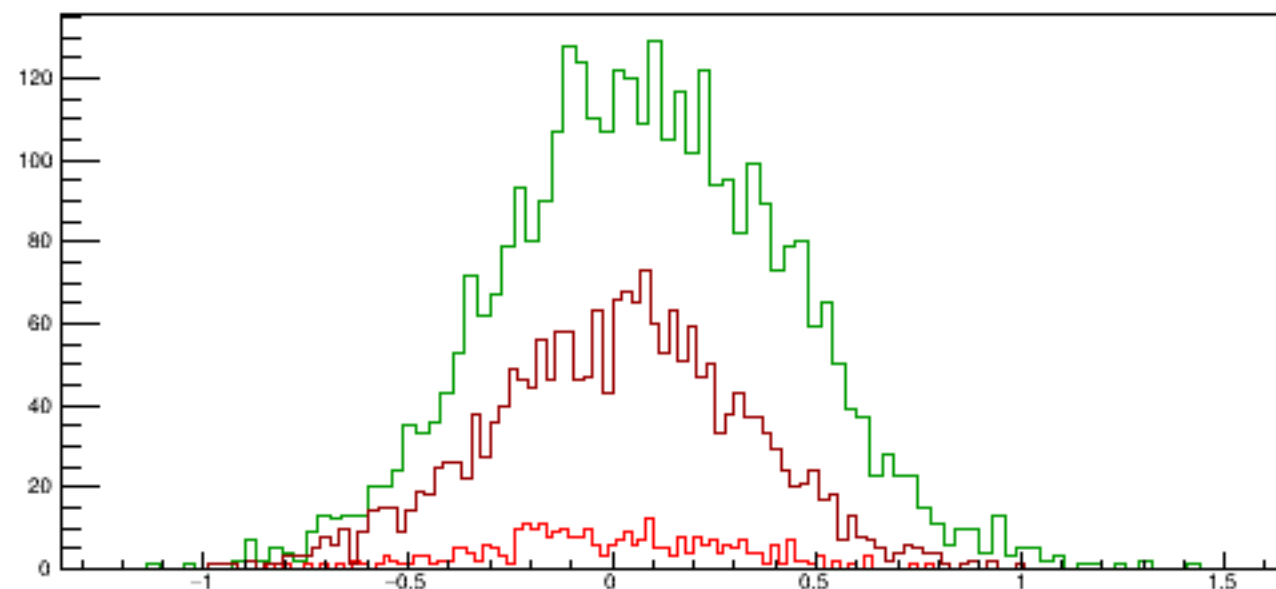
bcm:mpsCoda {mpsCoda&gt;=799337 &amp;&amp; mpsCoda&lt;=854048}



## Cycle 20, Diffs

| Entries: 316               | Entries: 3524              | Entries: 2056              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0118 +/- 0.0164   | Mean: 0.0803 +/- 0.0059    | Mean: 0.0126 +/- 0.0068    |
| Std Dev: 0.2913 +/- 0.0116 | Std Dev: 0.3481 +/- 0.0041 | Std Dev: 0.3102 +/- 0.0048 |

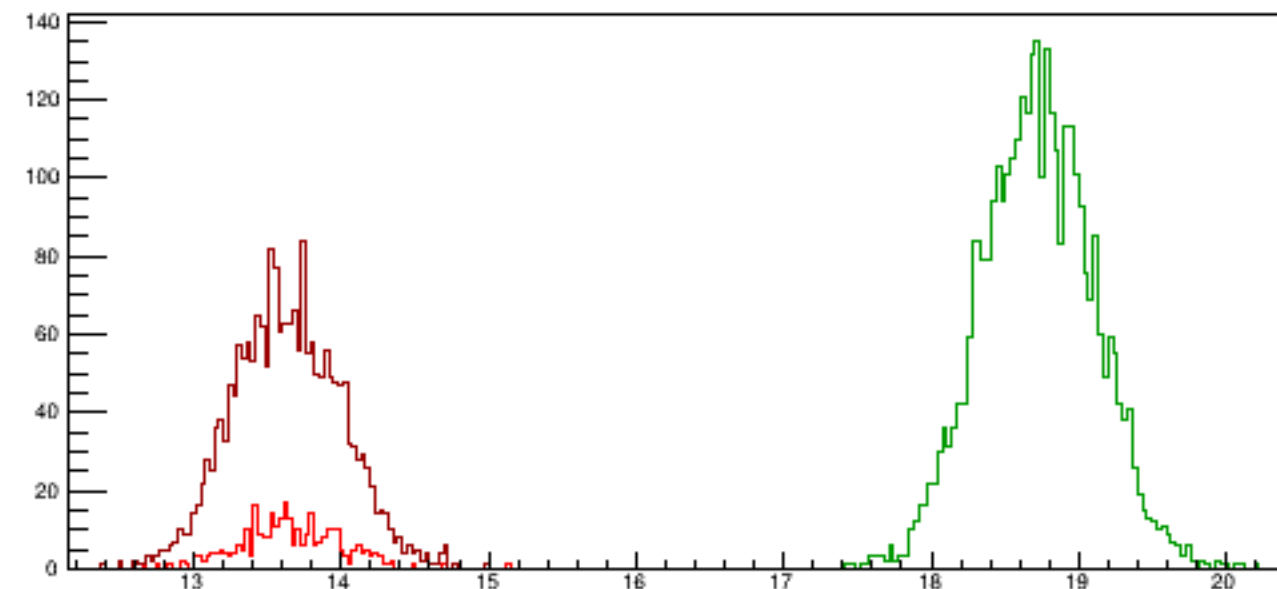
Run 4413 quartetwise, Diffs



## Cycle 20, Sums

| Entries: 316               | Entries: 3524              | Entries: 2056              |
|----------------------------|----------------------------|----------------------------|
| Mean: 13.6551 +/- 0.0190   | Mean: 18.7195 +/- 0.0064   | Mean: 13.6358 +/- 0.0081   |
| Std Dev: 0.3377 +/- 0.0134 | Std Dev: 0.3810 +/- 0.0045 | Std Dev: 0.3670 +/- 0.0057 |

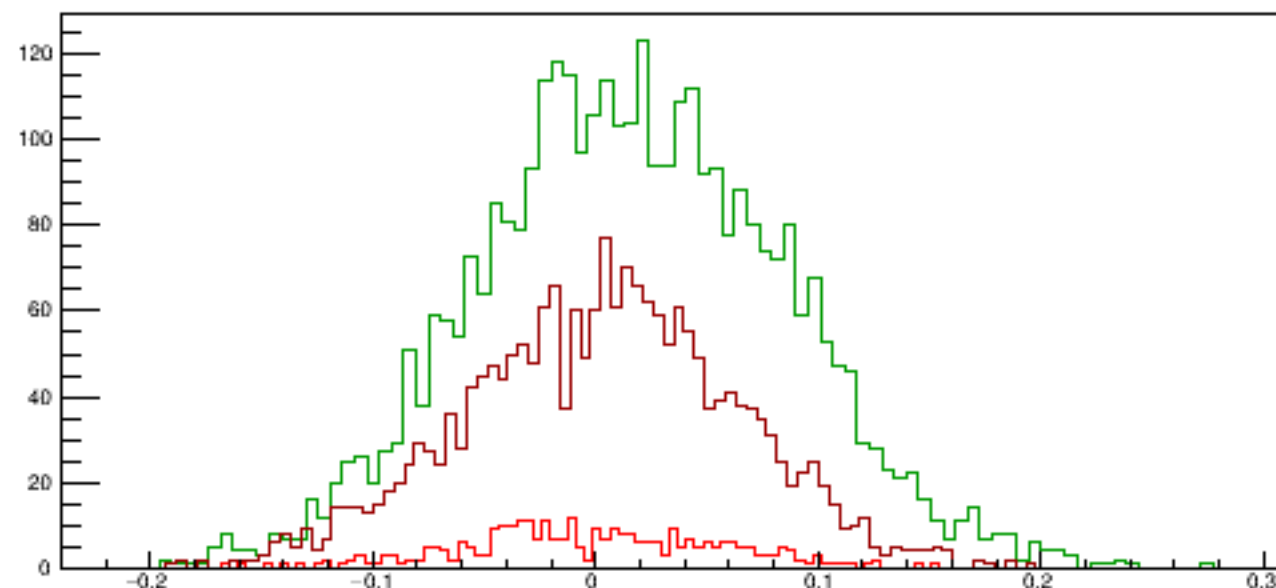
Run 4413 quartetwise, Sums



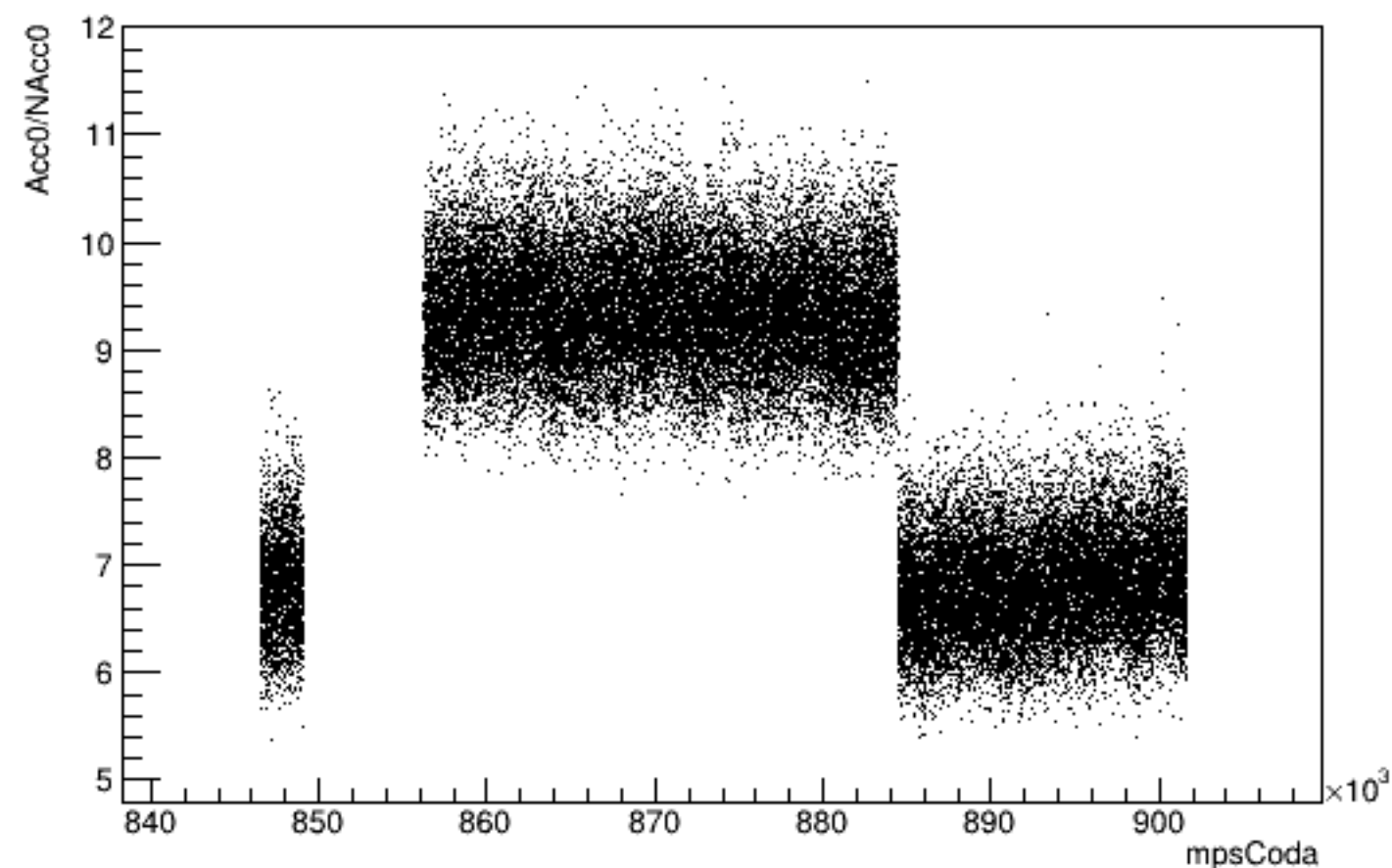
## Cycle 20, Asyms

| Entries: 316               | Entries: 3524              | Entries: 2056              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0023 +/- 0.0032   | Mean: 0.0159 +/- 0.0012    | Mean: 0.0025 +/- 0.0013    |
| Std Dev: 0.0574 +/- 0.0023 | Std Dev: 0.0687 +/- 0.0008 | Std Dev: 0.0611 +/- 0.0010 |

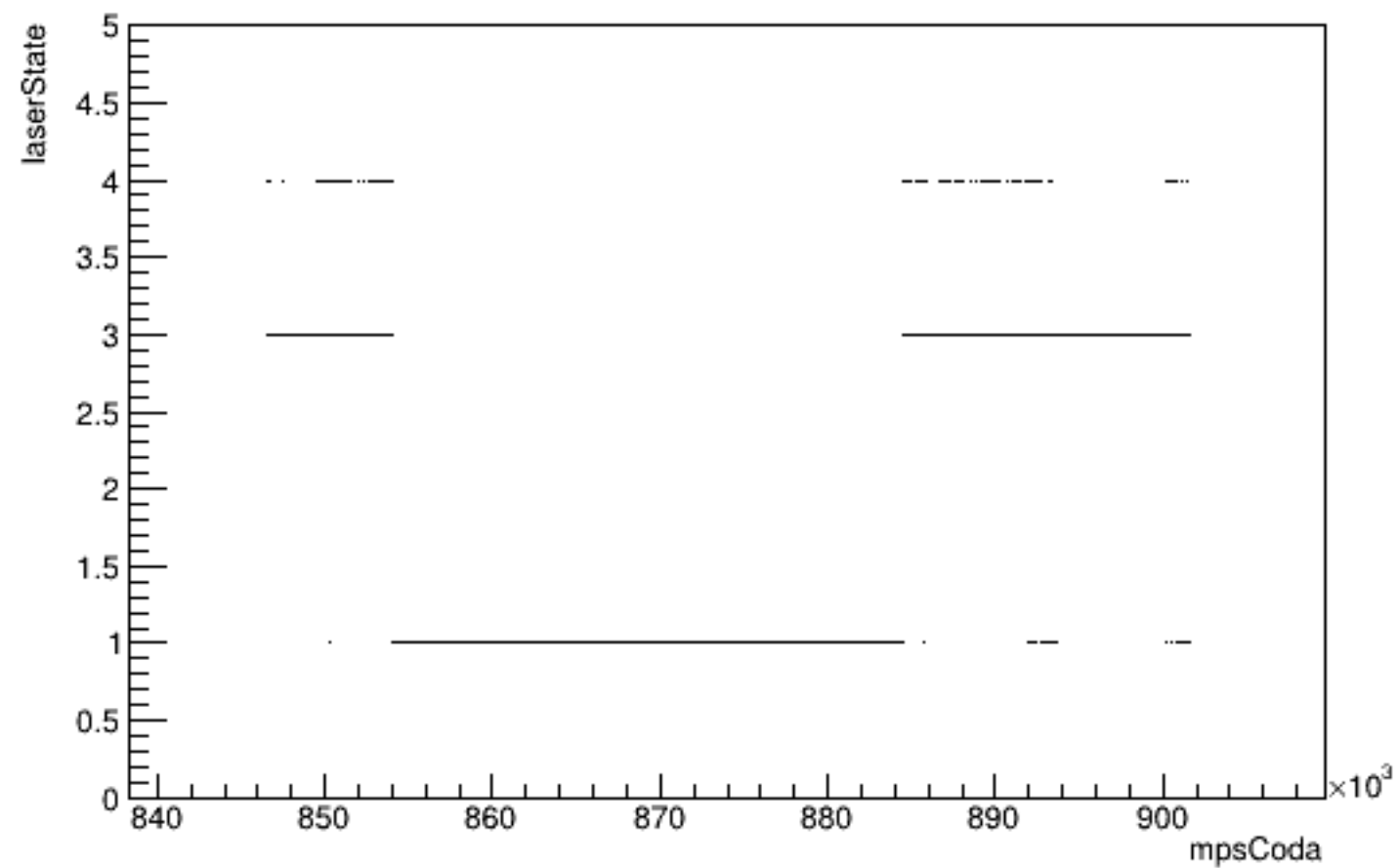
Run 4413 quartetwise, Asyms



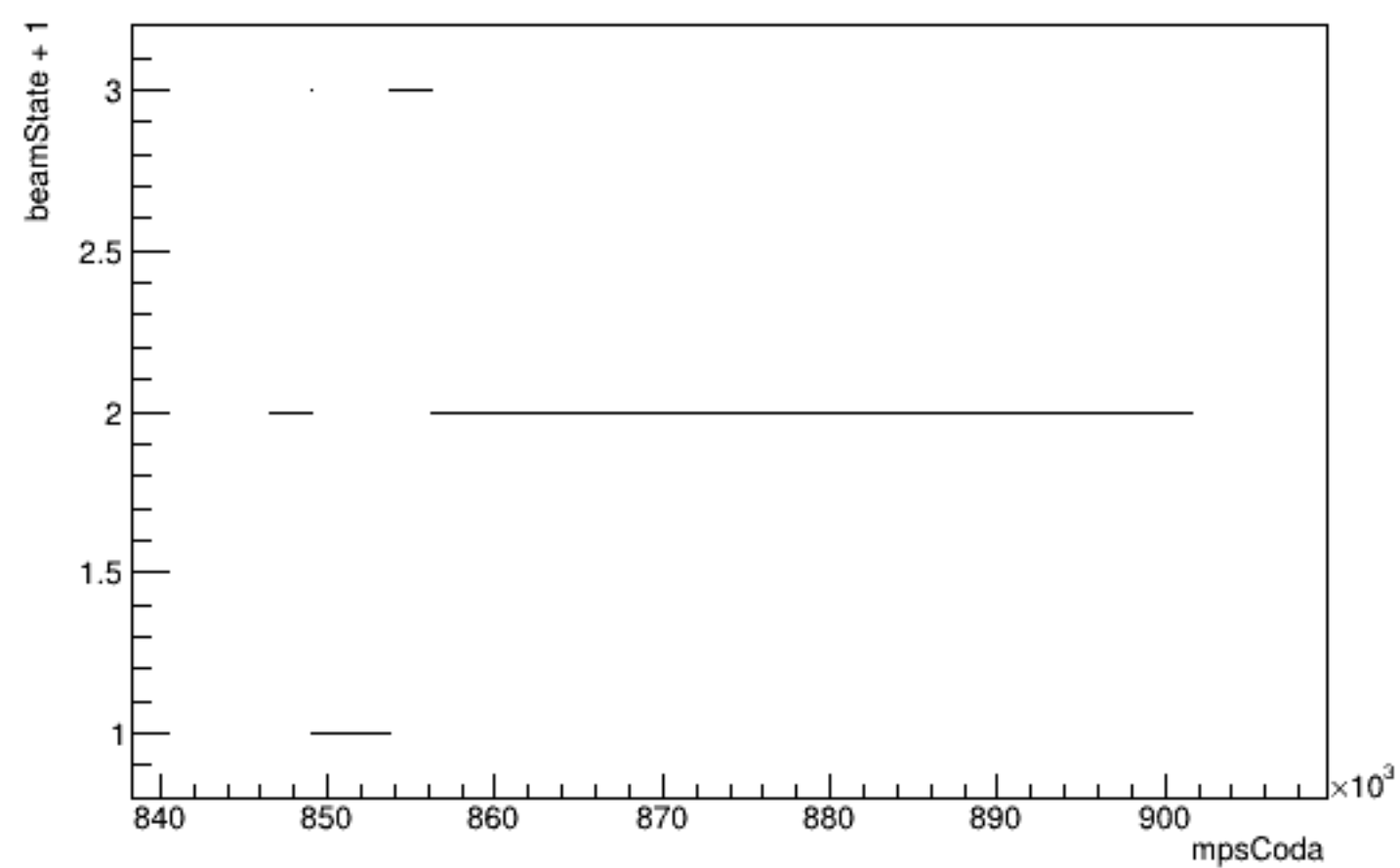
Acc0/NAcc0:mpsCoda (mpsCoda>=846513 && mpsCoda<=901672 && beamState==1)



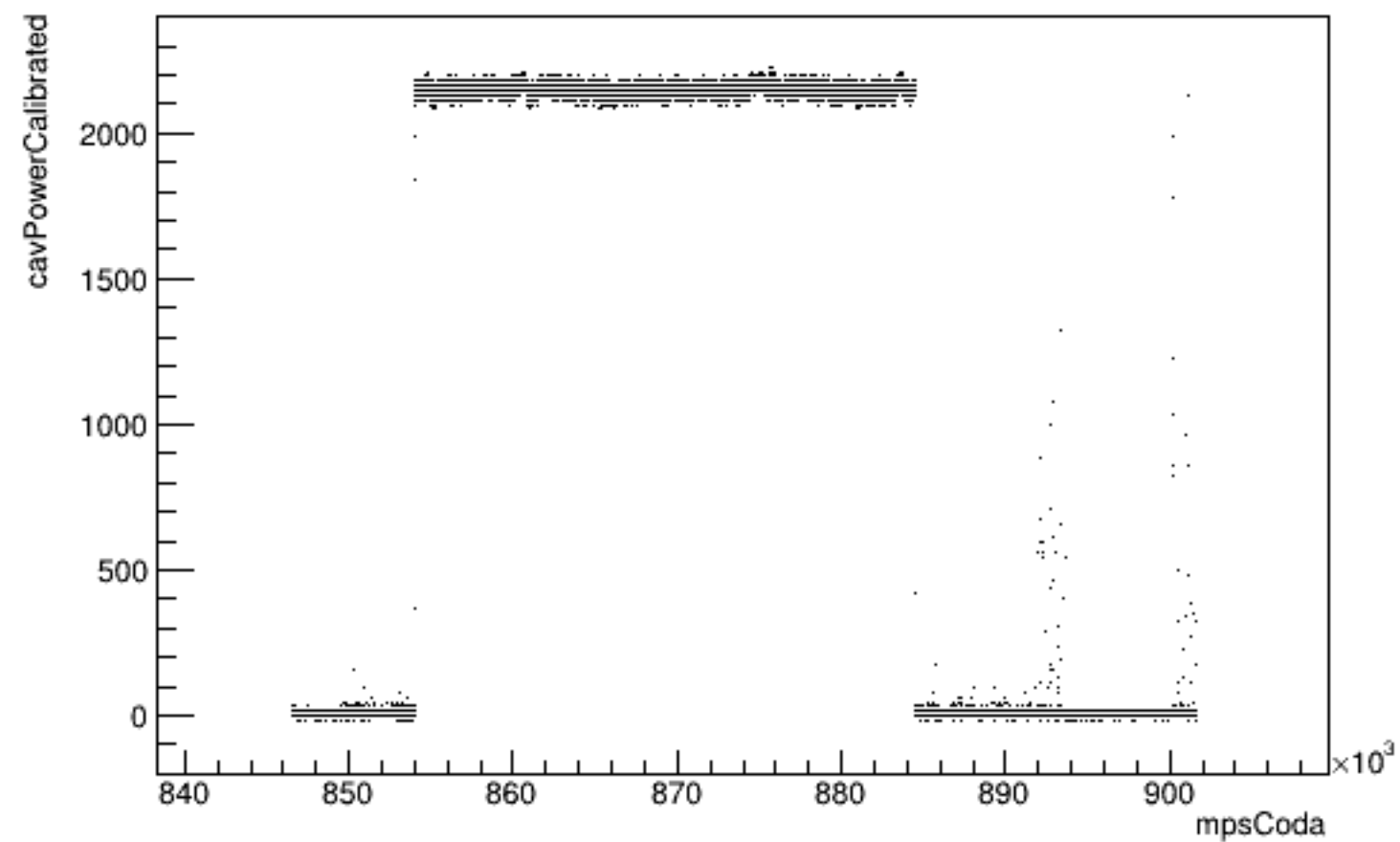
laserState:mpsCoda {mpsCoda&gt;=846513 &amp;&amp; mpsCoda&lt;=901672}



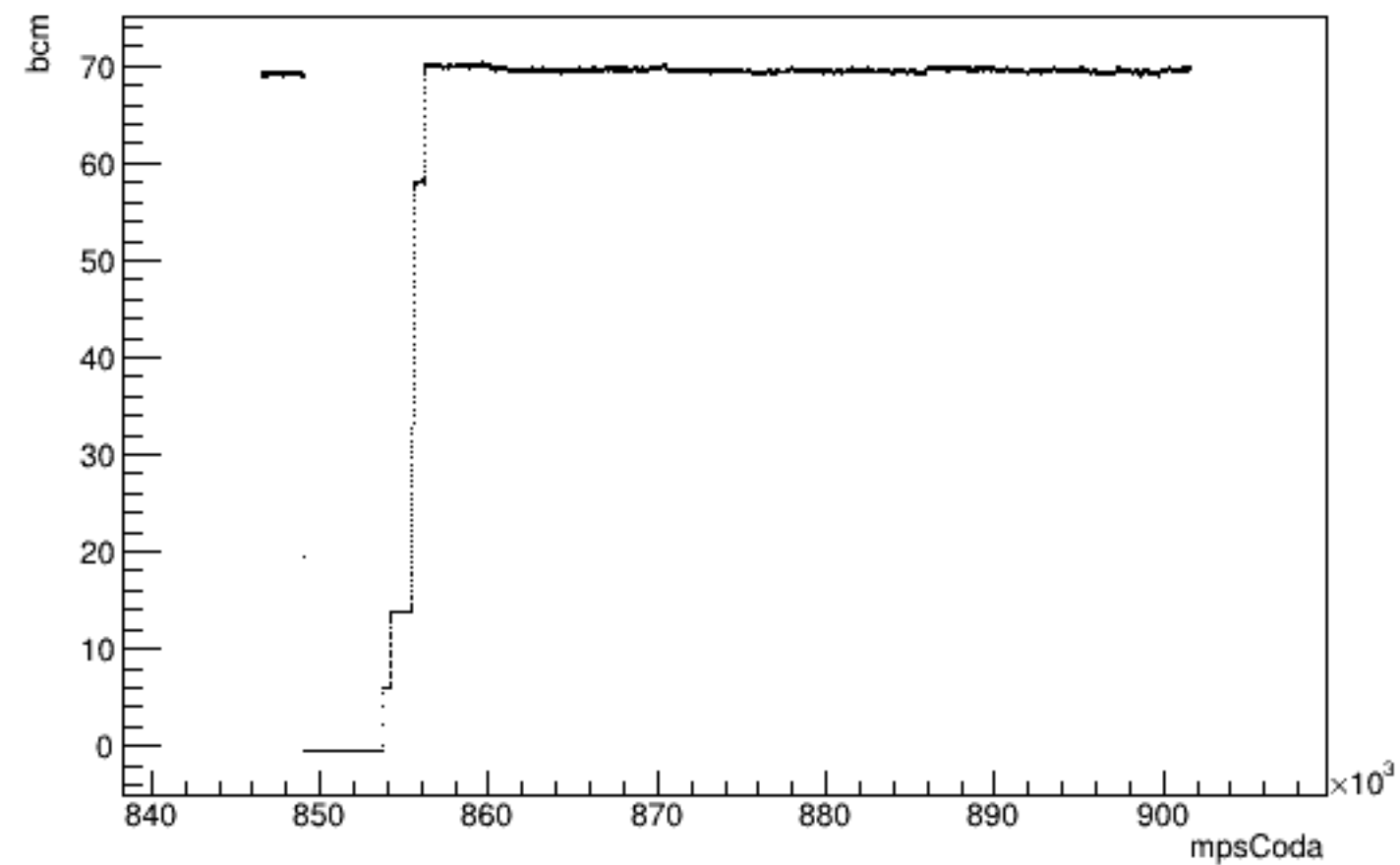
beamState + 1:mpsCoda {mpsCoda&gt;=846513 &amp;&amp; mpsCoda&lt;=901672}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=846513 &amp;&amp; mpsCoda&lt;=901672}



bcm:mpsCoda {mpsCoda&gt;=846513 &amp;&amp; mpsCoda&lt;=901672}



## Cycle 21, Diffs

Entries: 2056

Mean: 0.0126 +/- 0.0068

Std Dev: 0.3102 +/- 0.0048

Entries: 3804

Mean: 0.0720 +/- 0.0056

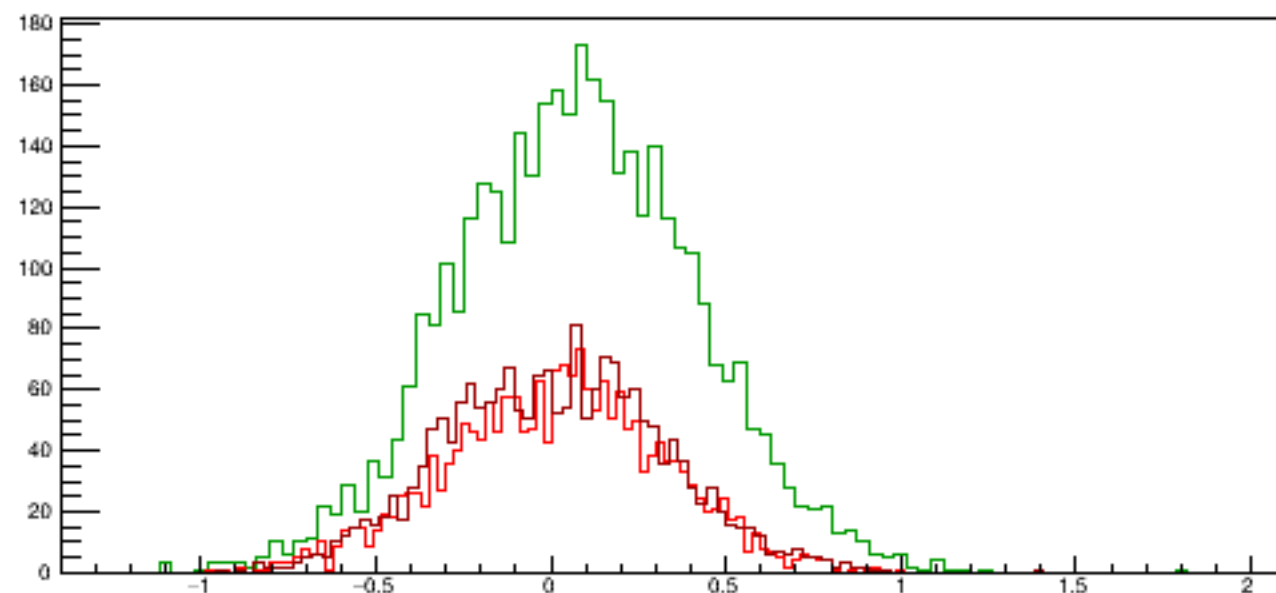
Std Dev: 0.3423 +/- 0.0039

Entries: 1935

Mean: 0.0123 +/- 0.0071

Std Dev: 0.3114 +/- 0.0050

Run 4413 quartetwise, Diffs



## Cycle 21, Sums

Entries: 2056

Mean: 13.6358 +/- 0.0081

Std Dev: 0.3670 +/- 0.0057

Entries: 3804

Mean: 18.9226 +/- 0.0065

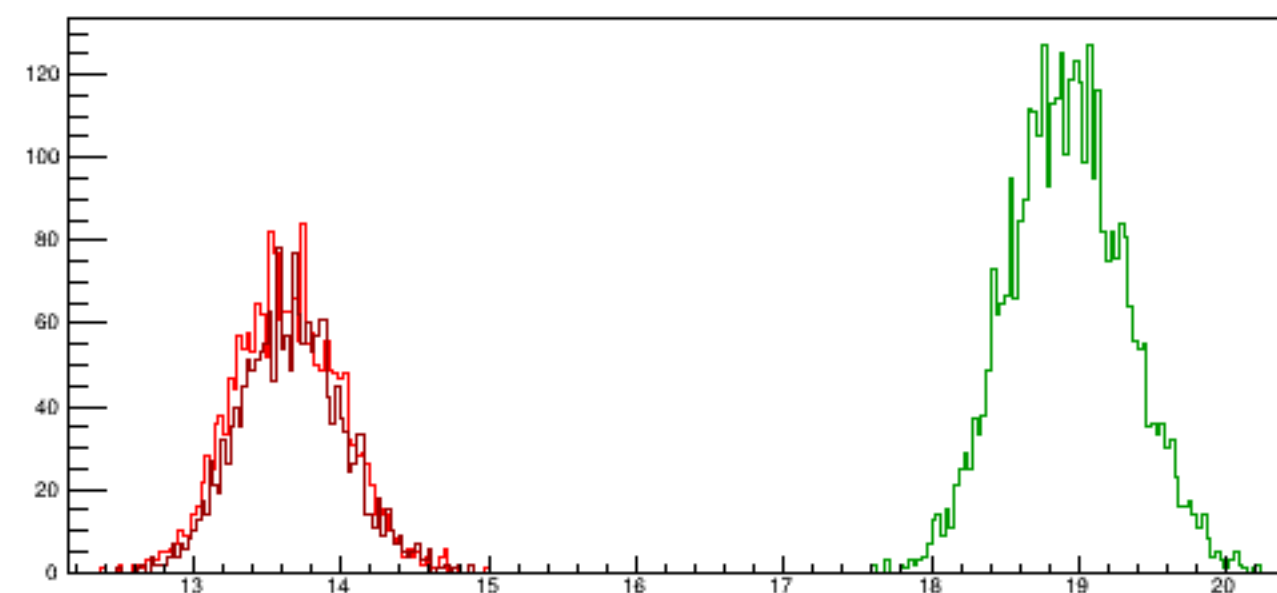
Std Dev: 0.3984 +/- 0.0046

Entries: 1935

Mean: 13.6632 +/- 0.0081

Std Dev: 0.3572 +/- 0.0057

Run 4413 quartetwise, Sums



## Cycle 21, Asyms

Entries: 2056

Mean: 0.0024 +/- 0.0013

Std Dev: 0.0588 +/- 0.0009

Entries: 3804

Mean: 0.0139 +/- 0.0011

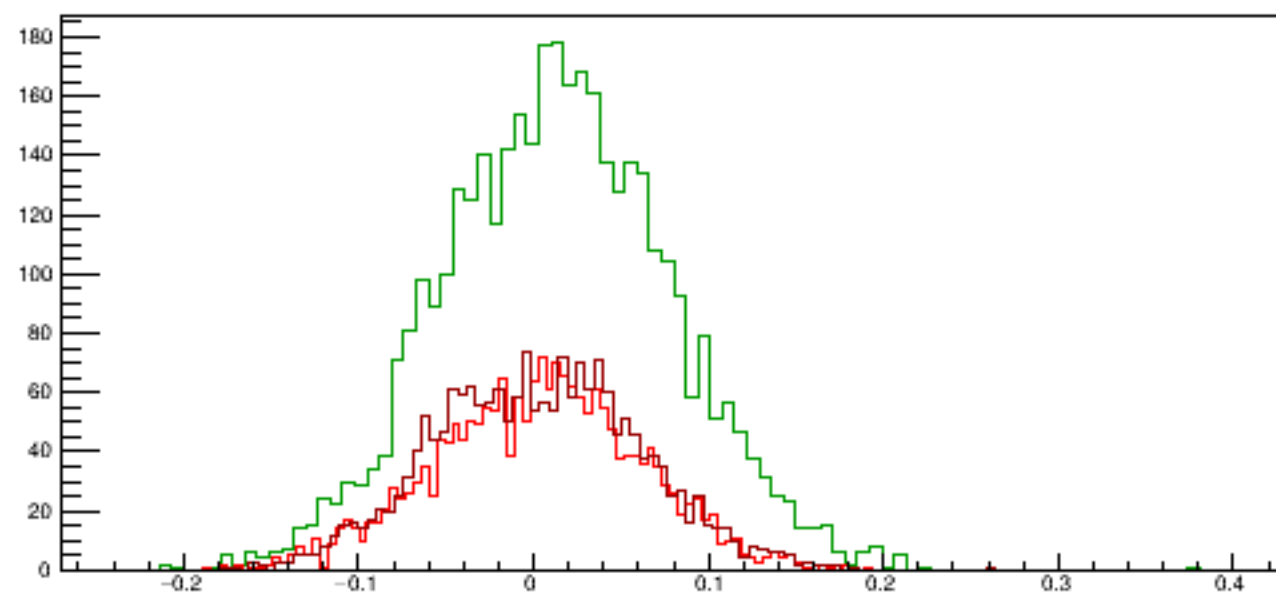
Std Dev: 0.0651 +/- 0.0007

Entries: 1935

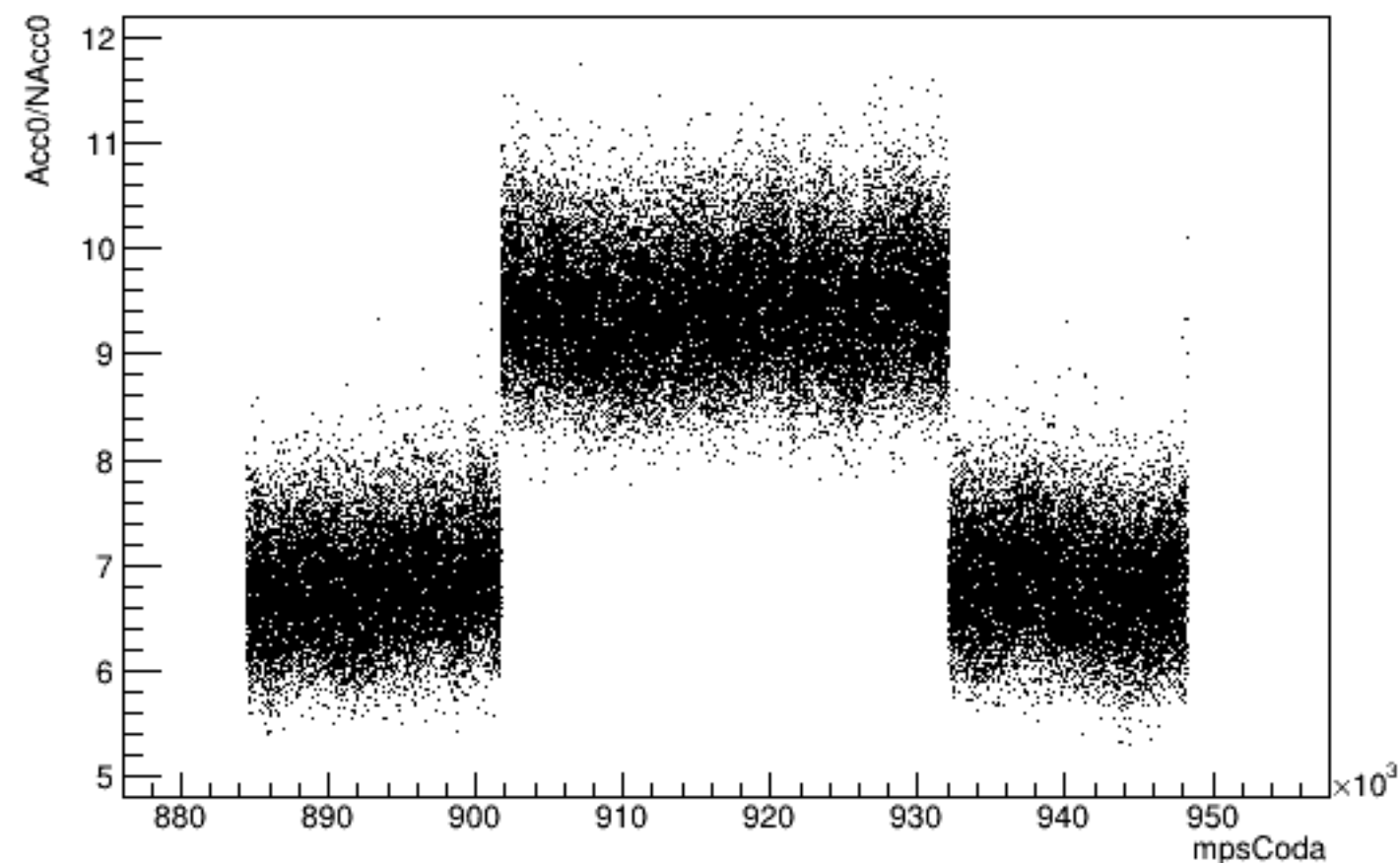
Mean: 0.0023 +/- 0.0013

Std Dev: 0.0591 +/- 0.0009

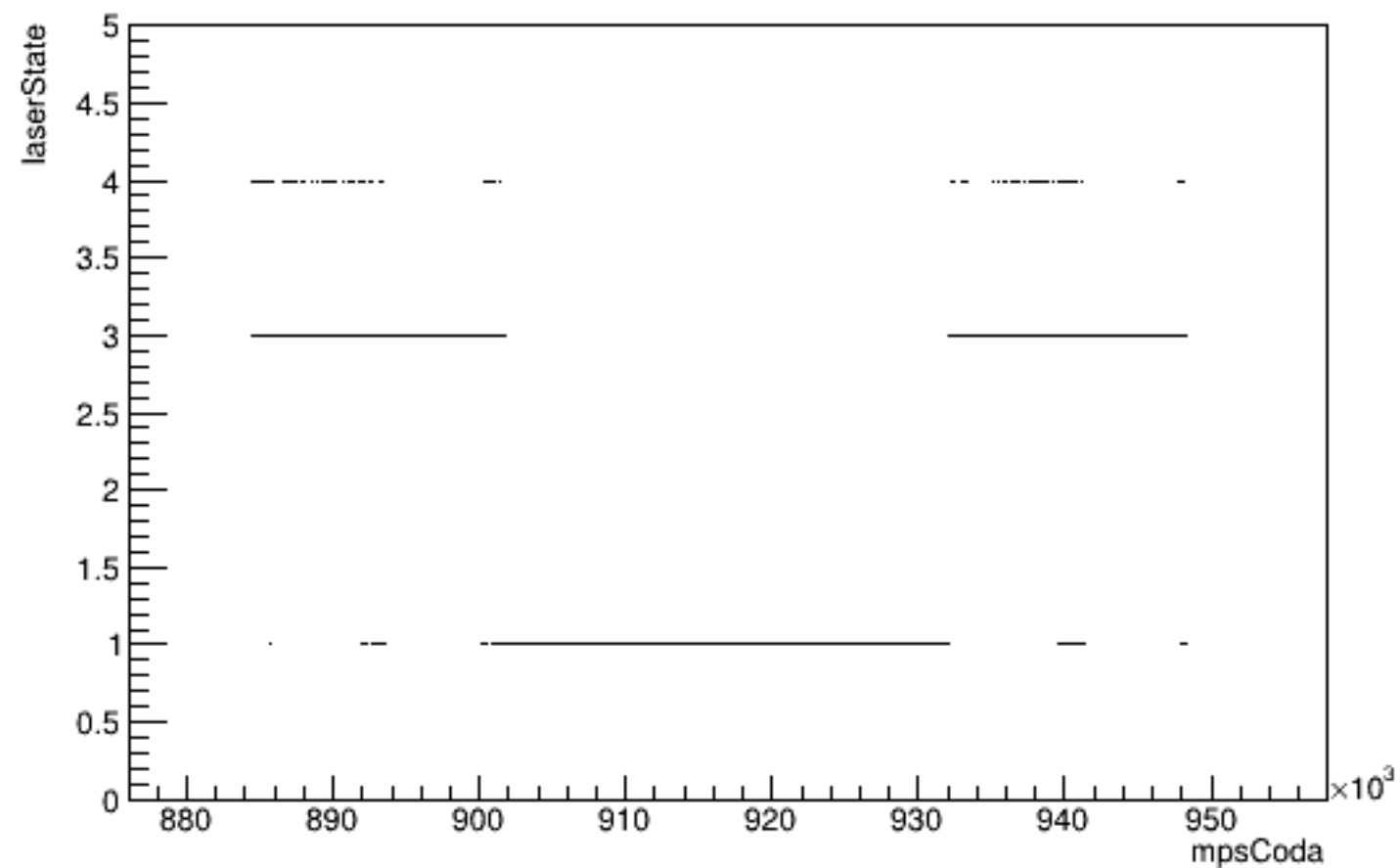
Run 4413 quartetwise, Asyms



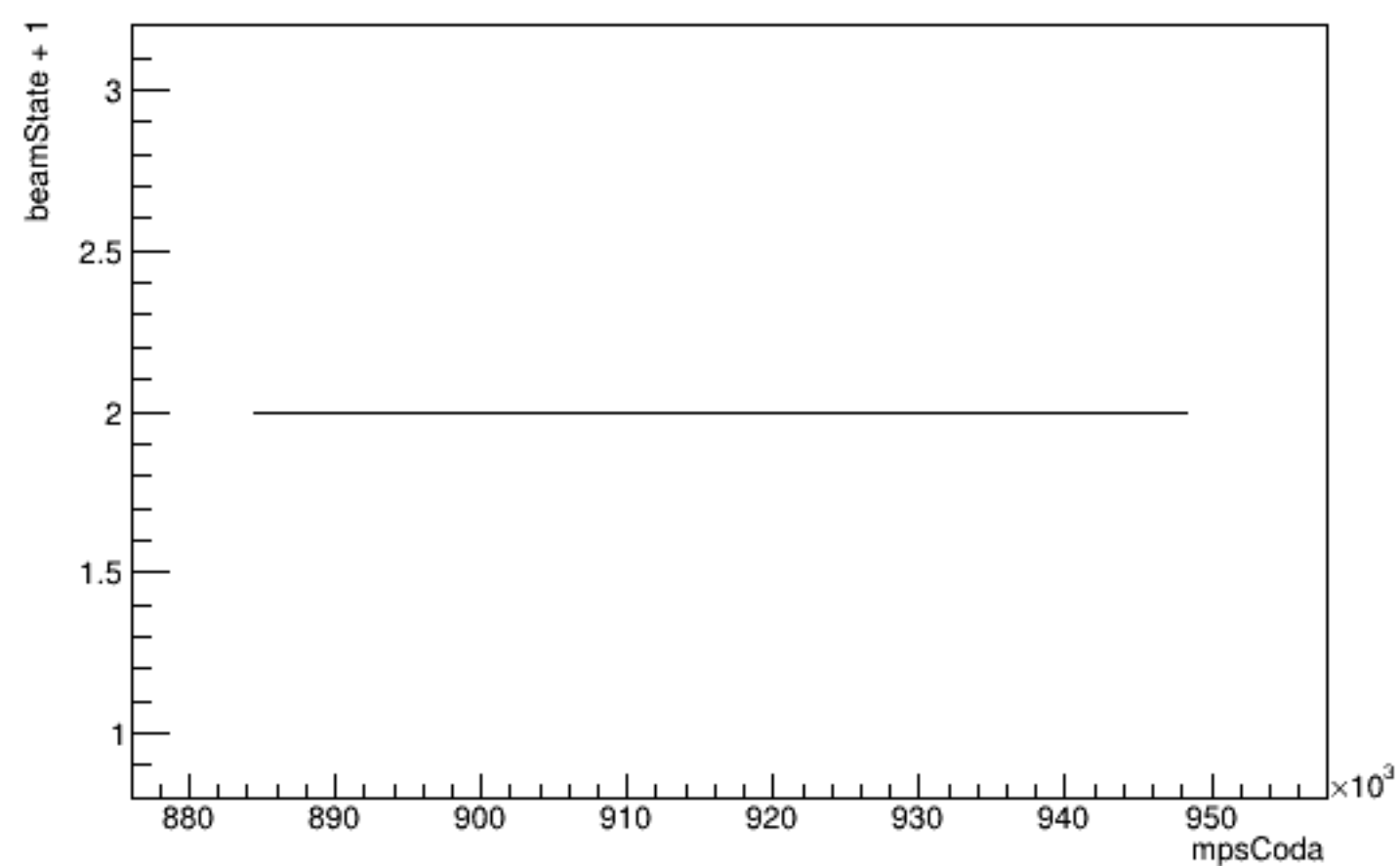
Acc0/NAcc0:mpsCoda (mpsCoda>=884449 && mpsCoda<=948256 && beamState==1)



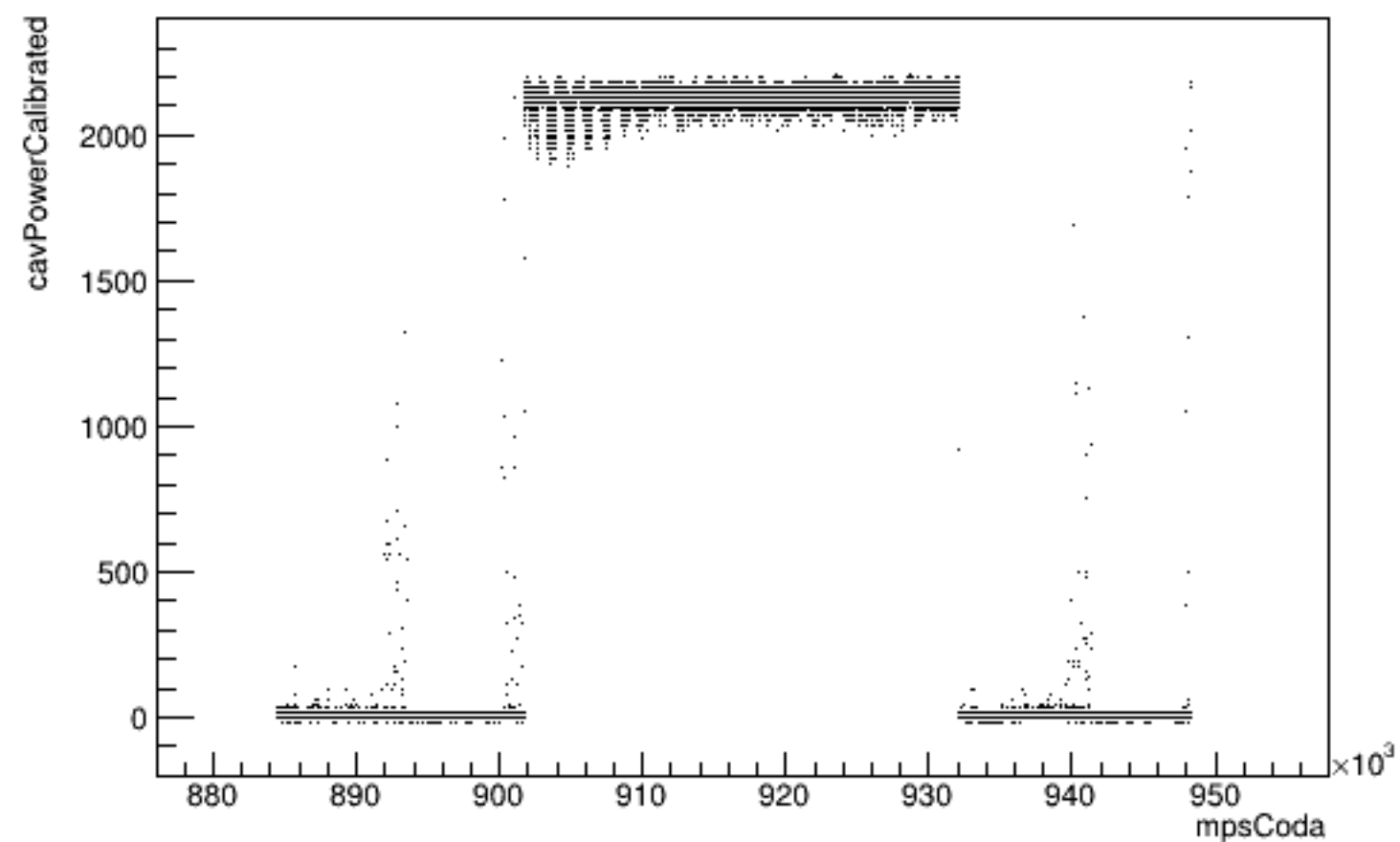
laserState:mpsCoda {mpsCoda&gt;=884449 &amp;&amp; mpsCoda&lt;=948256}



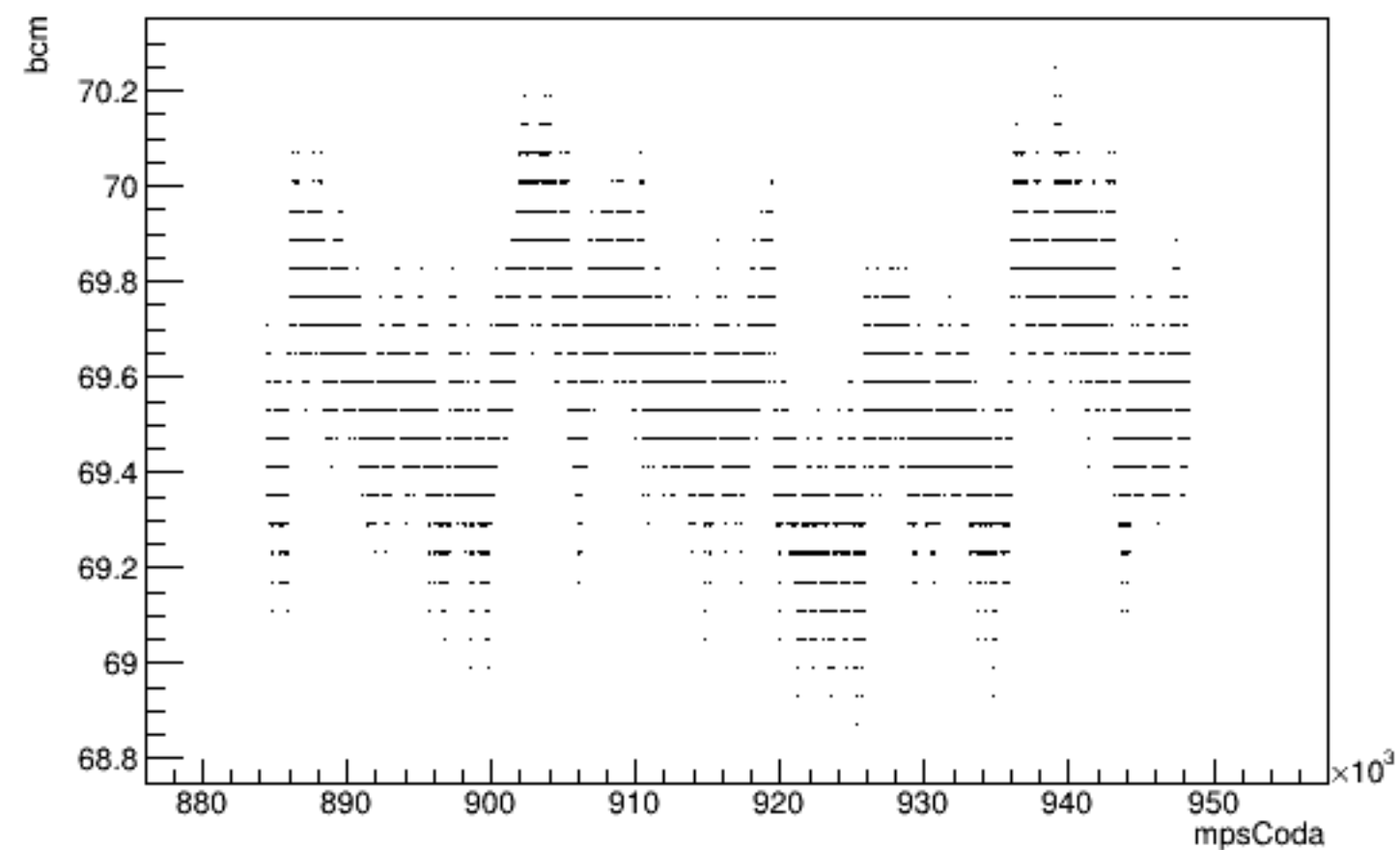
beamState + 1:mpsCoda {mpsCoda&gt;=884449 &amp;&amp; mpsCoda&lt;=948256}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=884449 &amp;&amp; mpsCoda&lt;=948256}



bcm:mpsCoda {mpsCoda&gt;=884449 &amp;&amp; mpsCoda&lt;=948256}





## Cycle 22, Diffs

Entries: 1935

Mean: 0.0123 +/- 0.0071

Std Dev: 0.3114 +/- 0.0050

Entries: 3754

Mean: 0.0740 +/- 0.0057

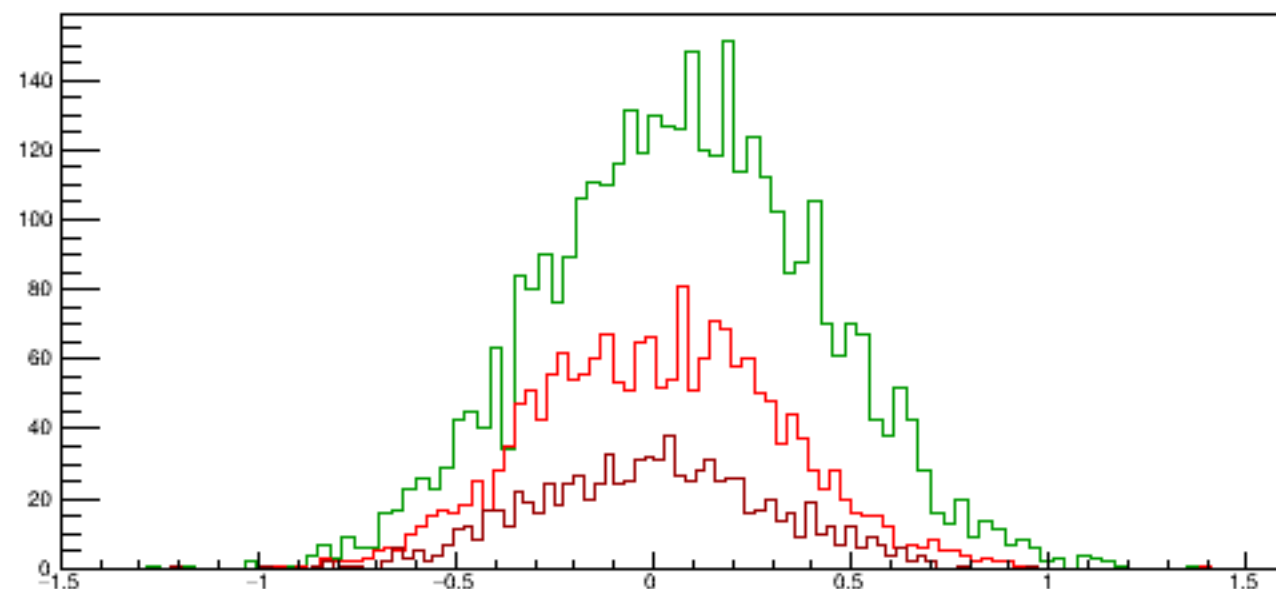
Std Dev: 0.3481 +/- 0.0040

Entries: 903

Mean: -0.0019 +/- 0.0101

Std Dev: 0.3028 +/- 0.0071

Run 4413 quartetwise, Diffs



## Cycle 22, Sums

Entries: 1935

Mean: 13.6632 +/- 0.0081

Std Dev: 0.3572 +/- 0.0057

Entries: 3754

Mean: 18.8791 +/- 0.0068

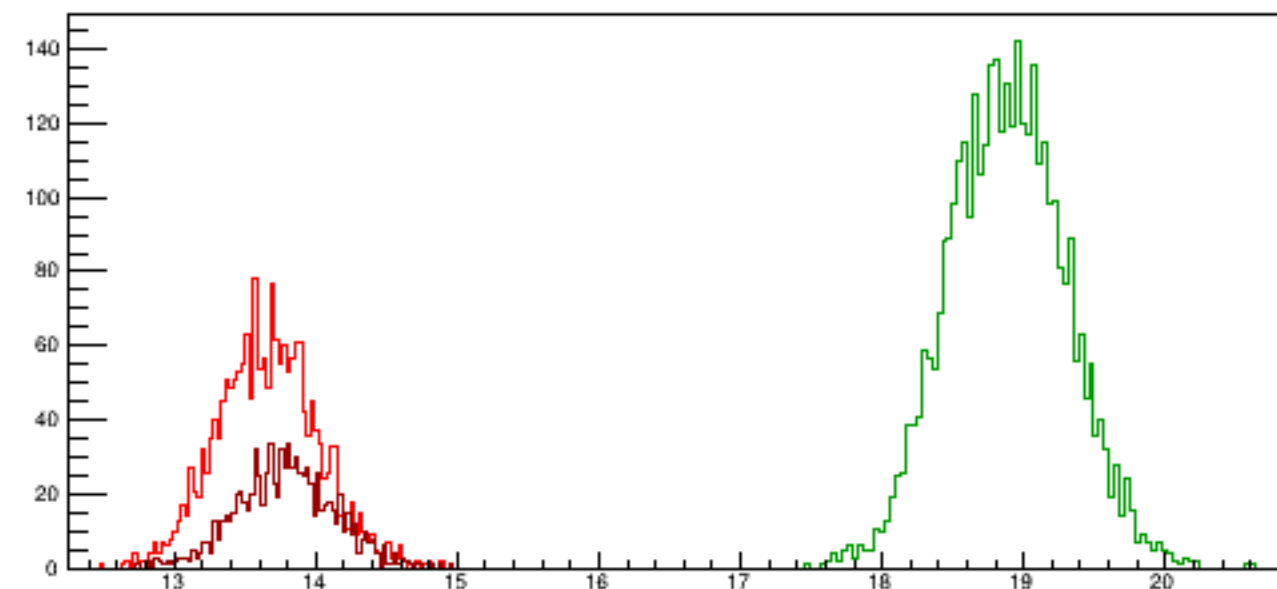
Std Dev: 0.4182 +/- 0.0048

Entries: 903

Mean: 13.7886 +/- 0.0115

Std Dev: 0.3456 +/- 0.0081

Run 4413 quartetwise, Sums



## Cycle 22, Asyms

Entries: 1935

Mean: 0.0024 +/- 0.0014

Std Dev: 0.0604 +/- 0.0010

Entries: 3754

Mean: 0.0145 +/- 0.0011

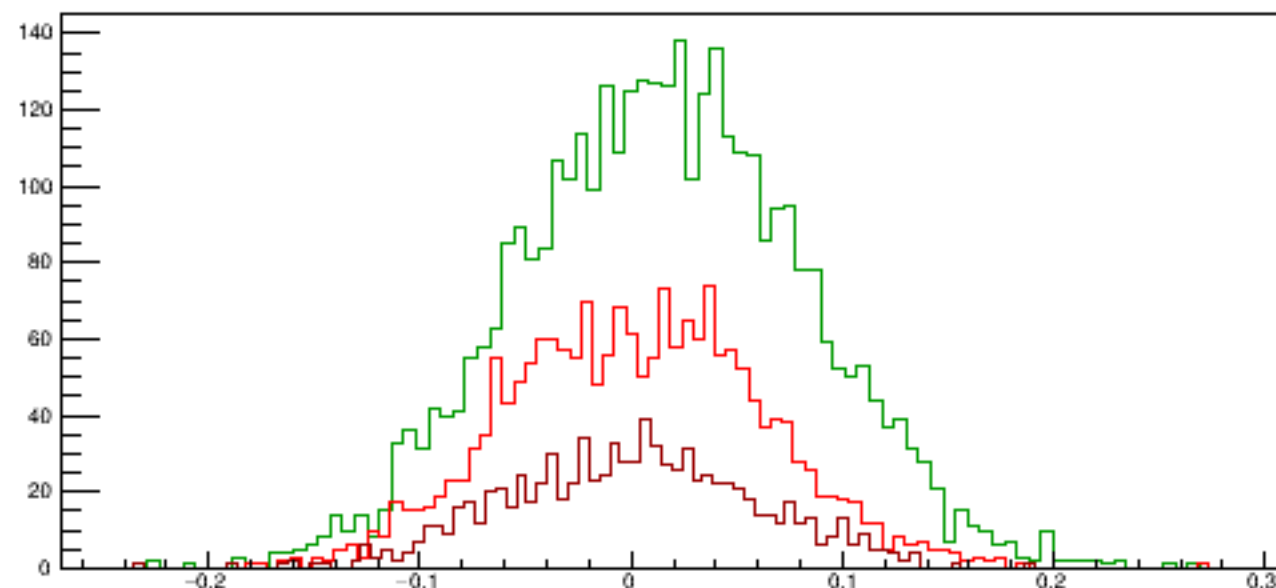
Std Dev: 0.0678 +/- 0.0008

Entries: 903

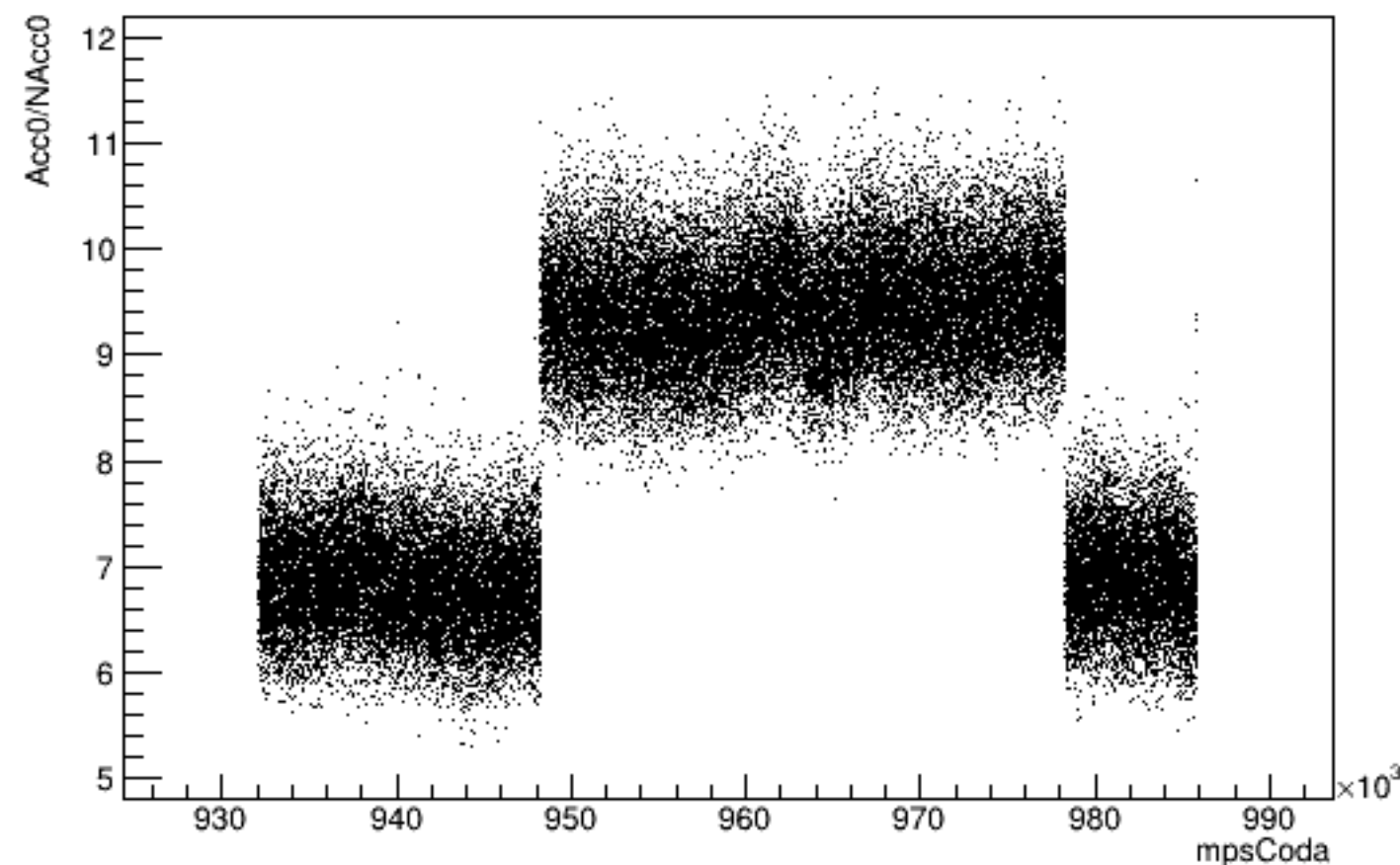
Mean: -0.0004 +/- 0.0020

Std Dev: 0.0588 +/- 0.0014

Run 4413 quartetwise, Asyms

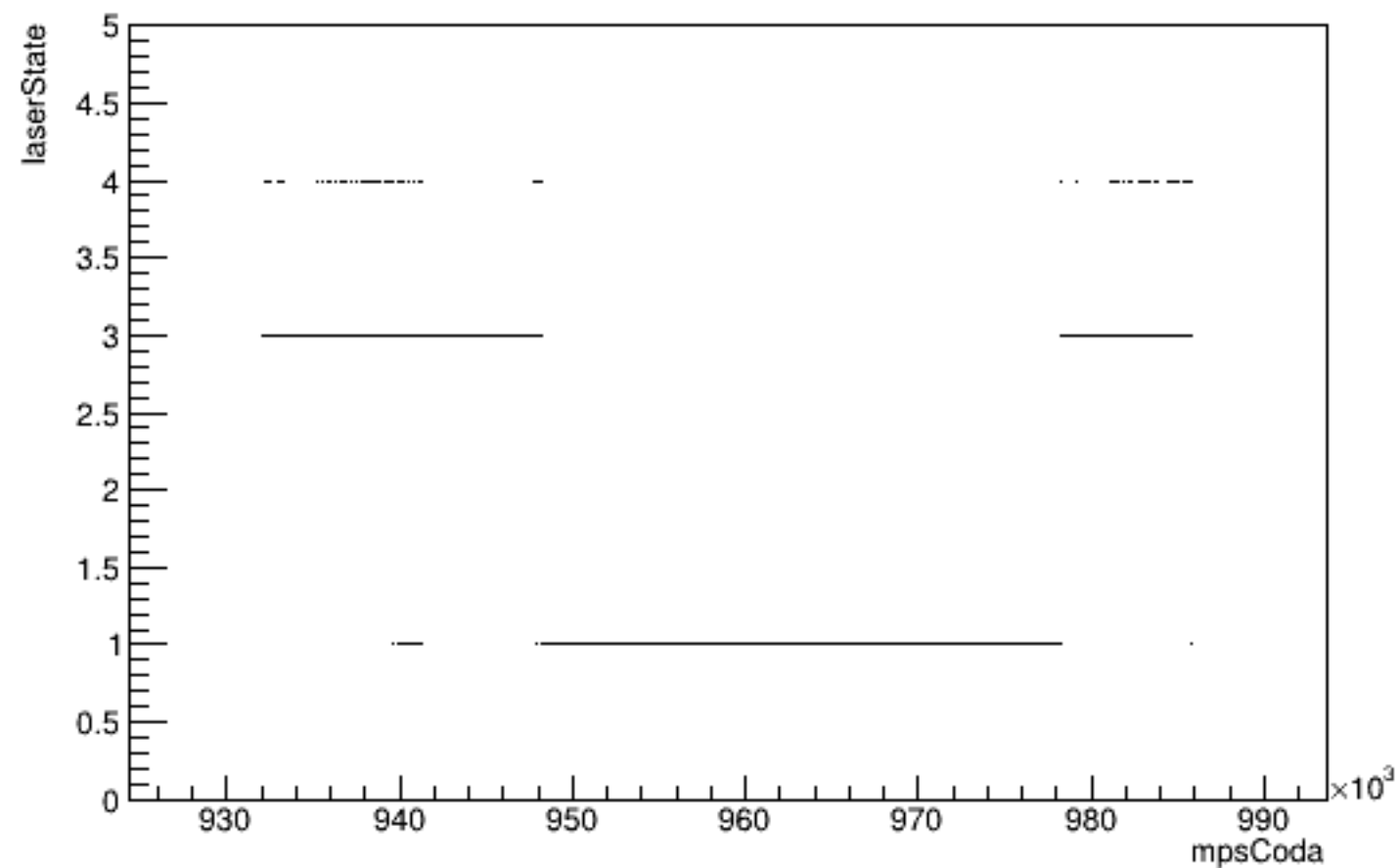


Acc0/NAcc0:mpsCoda (mpsCoda>=932113 && mpsCoda<=985816 && beamState==1)

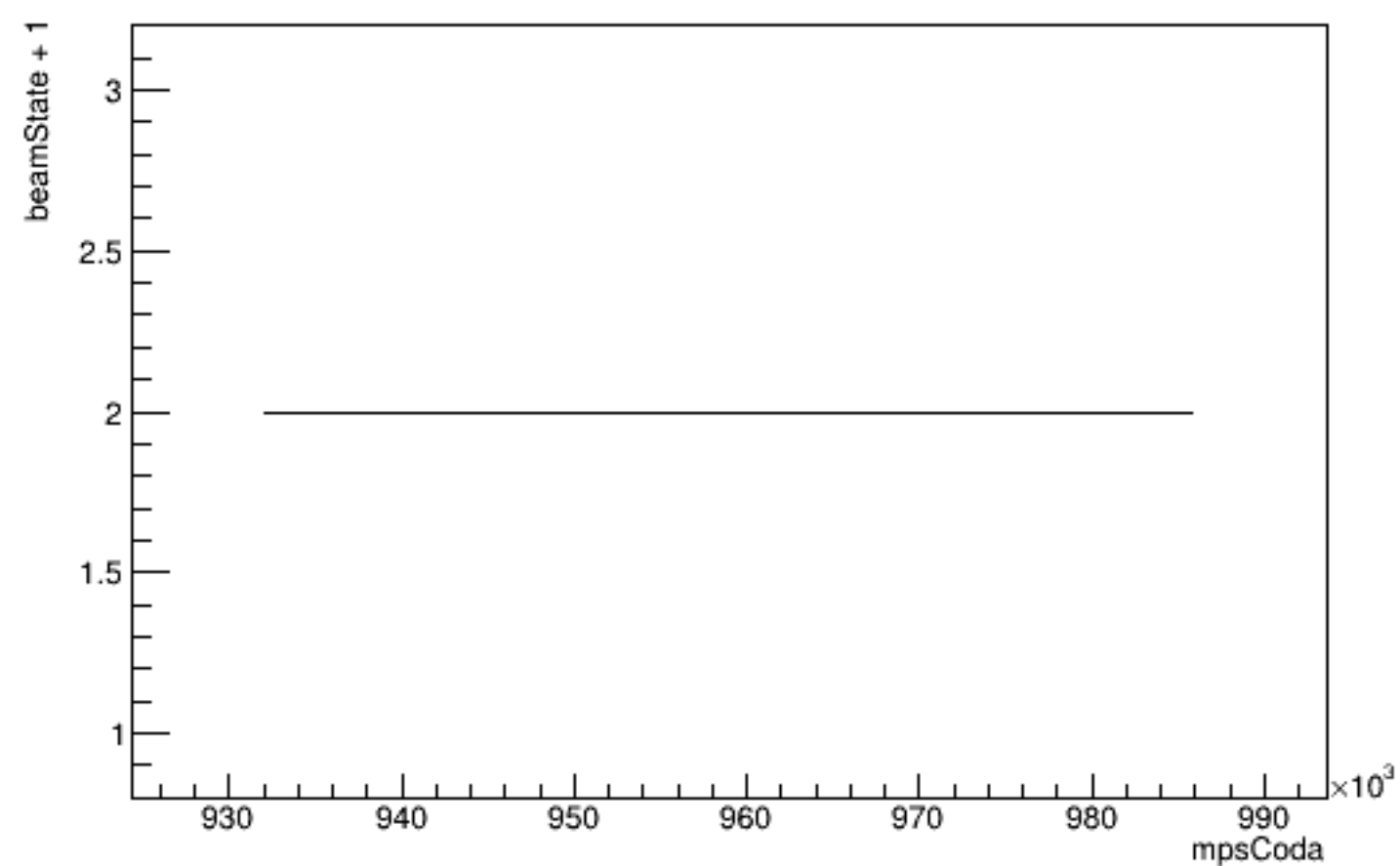




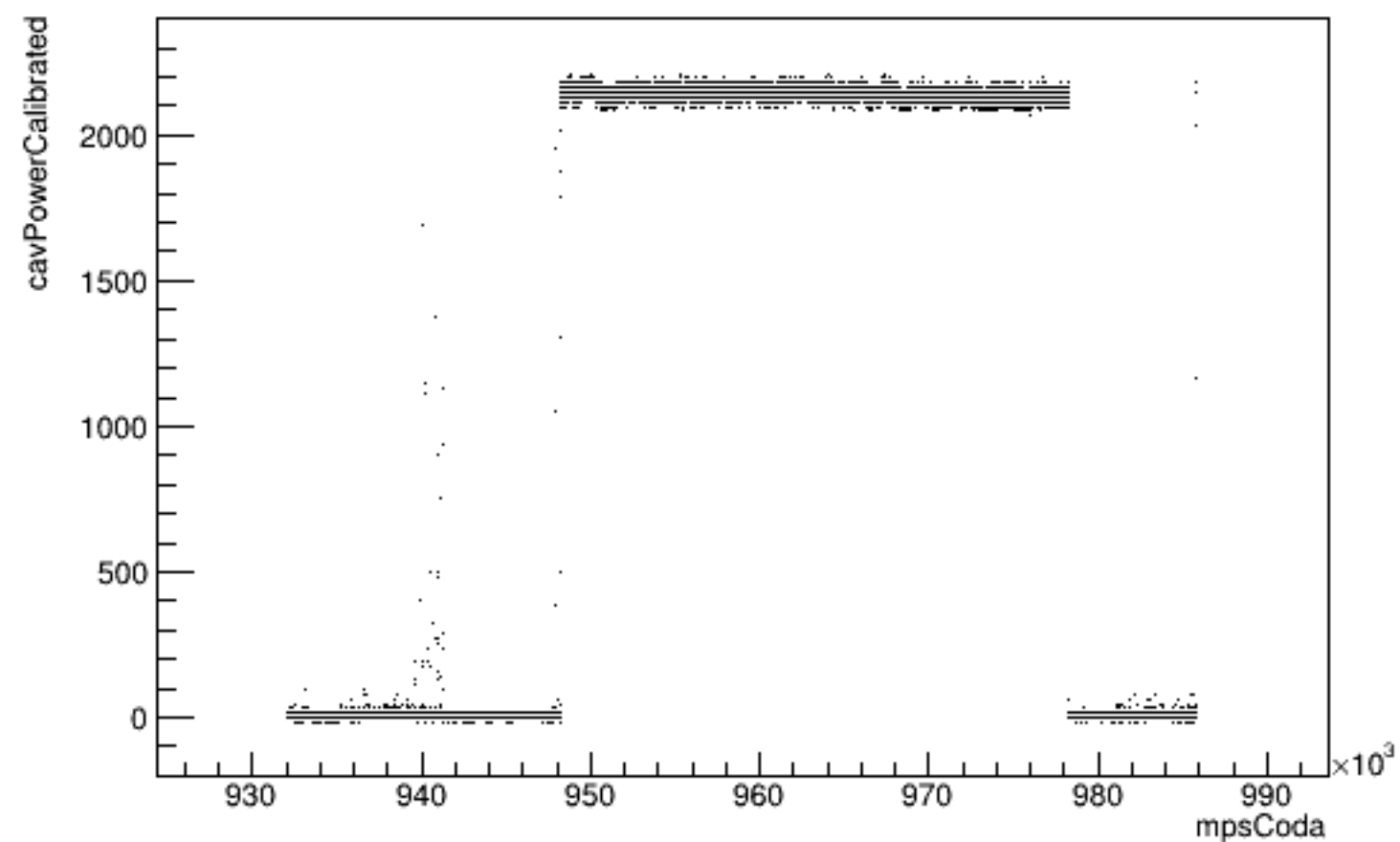
laserState:mpsCoda {mpsCoda&gt;=932113 &amp;&amp; mpsCoda&lt;=985816}



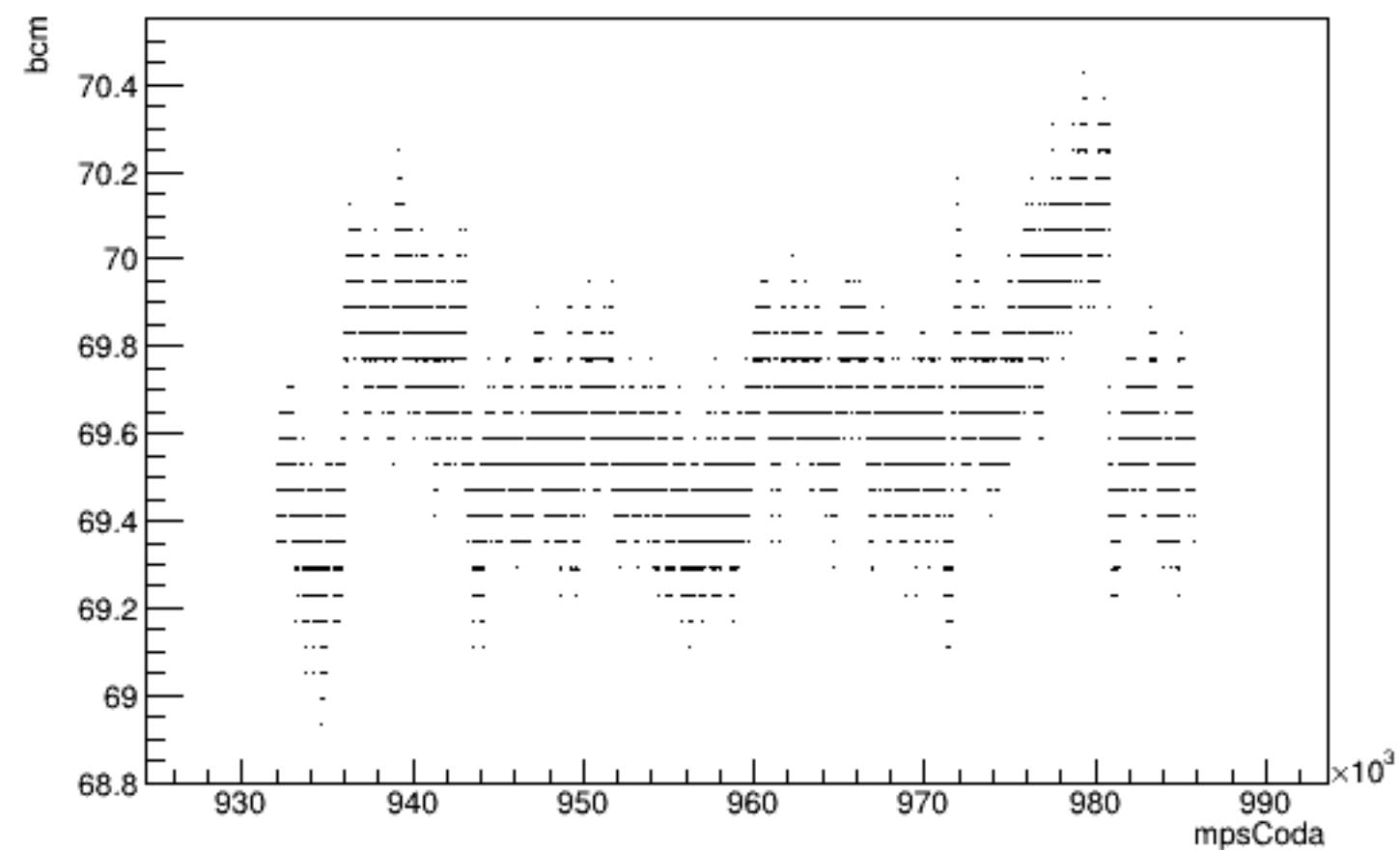
beamState + 1:mpsCoda {mpsCoda&gt;=932113 &amp;&amp; mpsCoda&lt;=985816}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=932113 &amp;&amp; mpsCoda&lt;=985816}



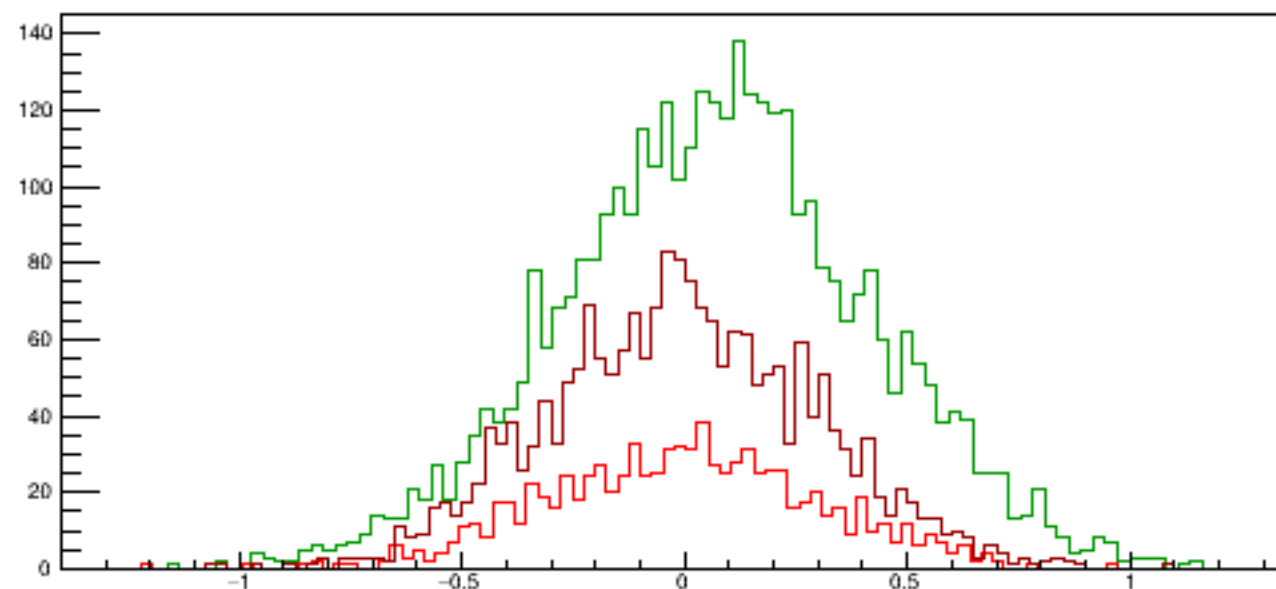
bcm:mpsCoda {mpsCoda&gt;=932113 &amp;&amp; mpsCoda&lt;=985816}



## Cycle 23, Diffs

| Entries: 903               | Entries: 3802              | Entries: 2061              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0019 +/- 0.0101   | Mean: 0.0702 +/- 0.0056    | Mean: -0.0072 +/- 0.0066   |
| Std Dev: 0.3028 +/- 0.0071 | Std Dev: 0.3462 +/- 0.0040 | Std Dev: 0.2991 +/- 0.0047 |

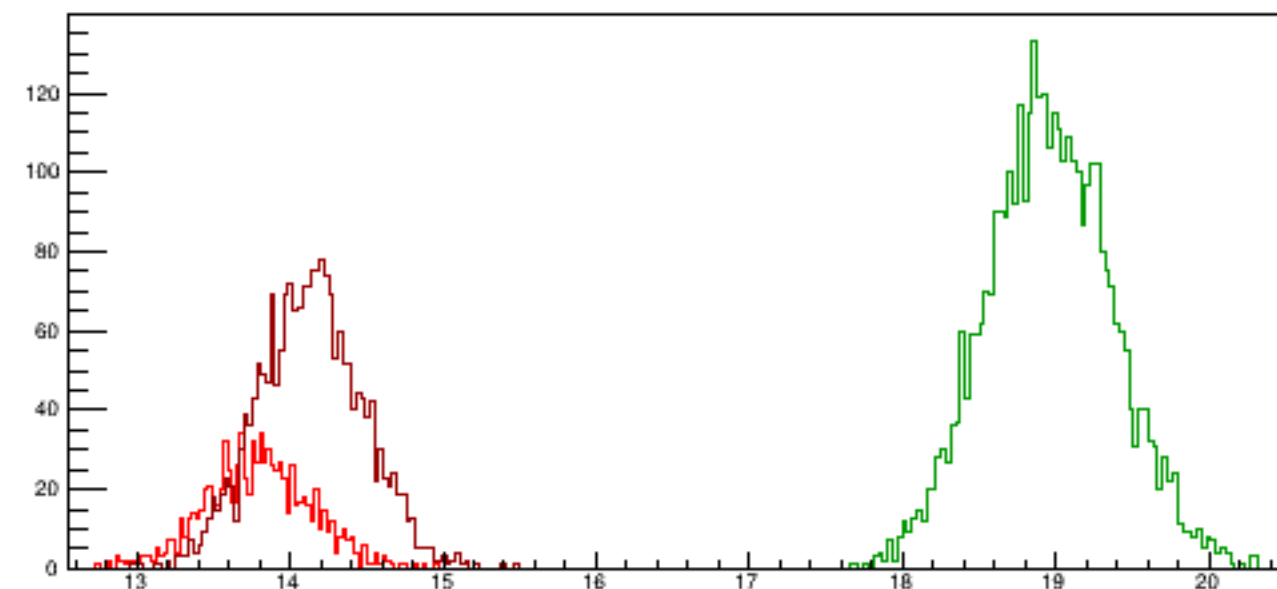
Run 4413 quartetwise, Diffs



## Cycle 23, Sums

| Entries: 903               | Entries: 3802              | Entries: 2061              |
|----------------------------|----------------------------|----------------------------|
| Mean: 13.7886 +/- 0.0115   | Mean: 18.9630 +/- 0.0067   | Mean: 14.1308 +/- 0.0075   |
| Std Dev: 0.3456 +/- 0.0081 | Std Dev: 0.4139 +/- 0.0047 | Std Dev: 0.3403 +/- 0.0053 |

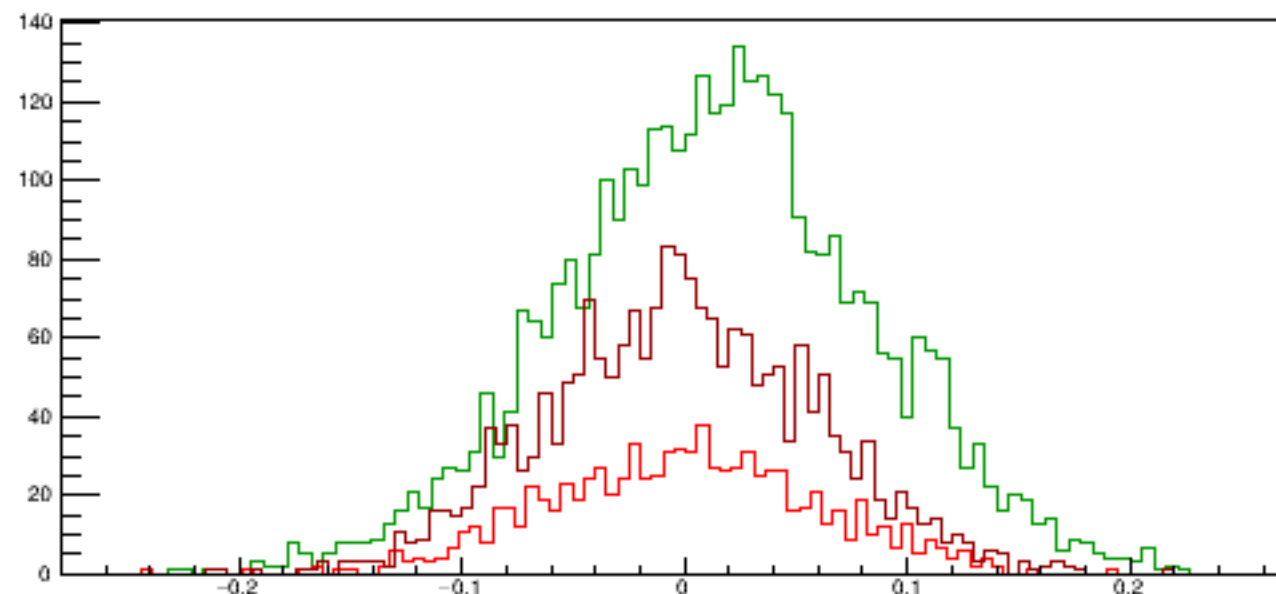
Run 4413 quartetwise, Sums



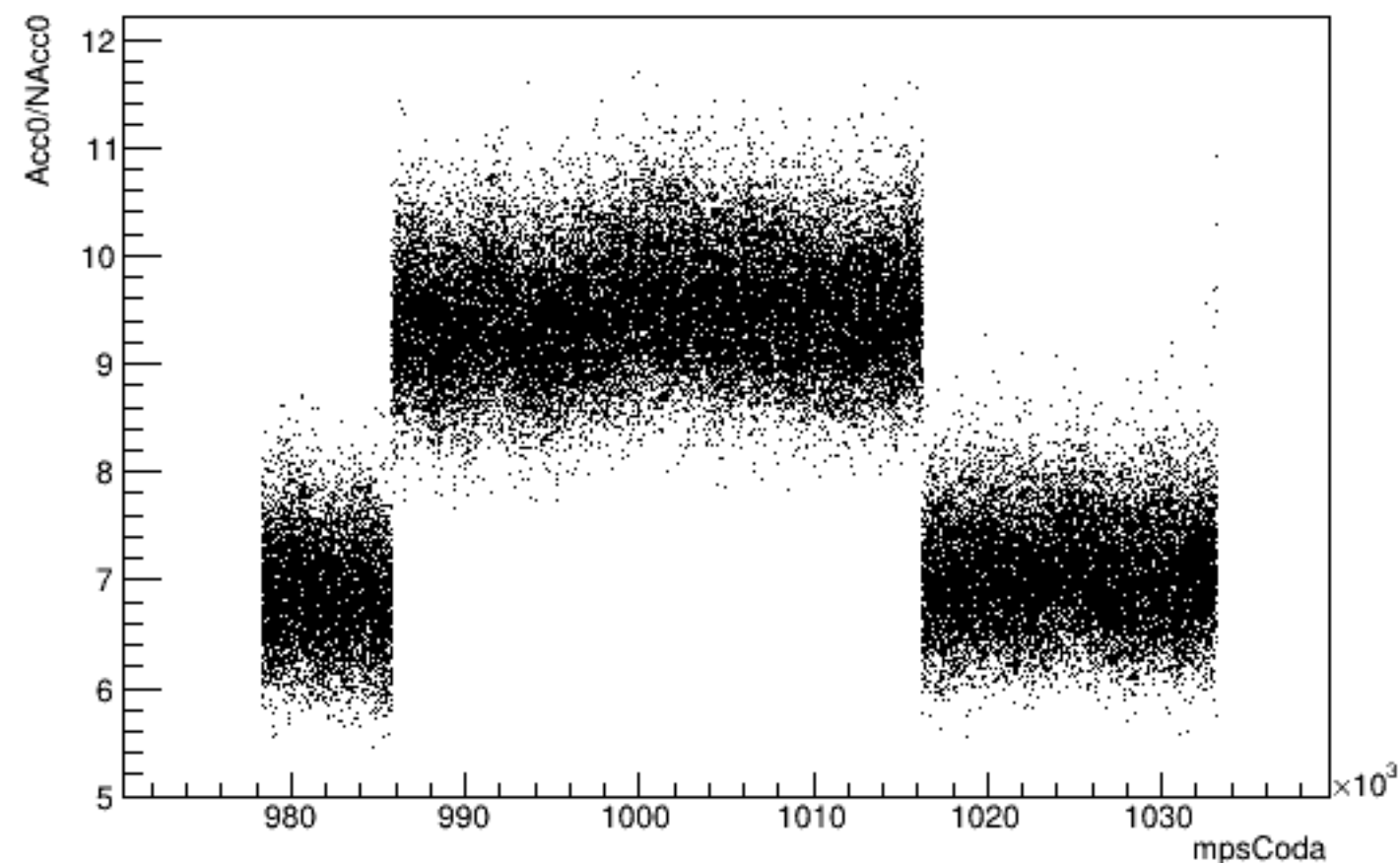
## Cycle 23, Asyms

| Entries: 903               | Entries: 3802              | Entries: 2061              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0004 +/- 0.0020   | Mean: 0.0141 +/- 0.0011    | Mean: -0.0014 +/- 0.0013   |
| Std Dev: 0.0605 +/- 0.0014 | Std Dev: 0.0696 +/- 0.0008 | Std Dev: 0.0598 +/- 0.0009 |

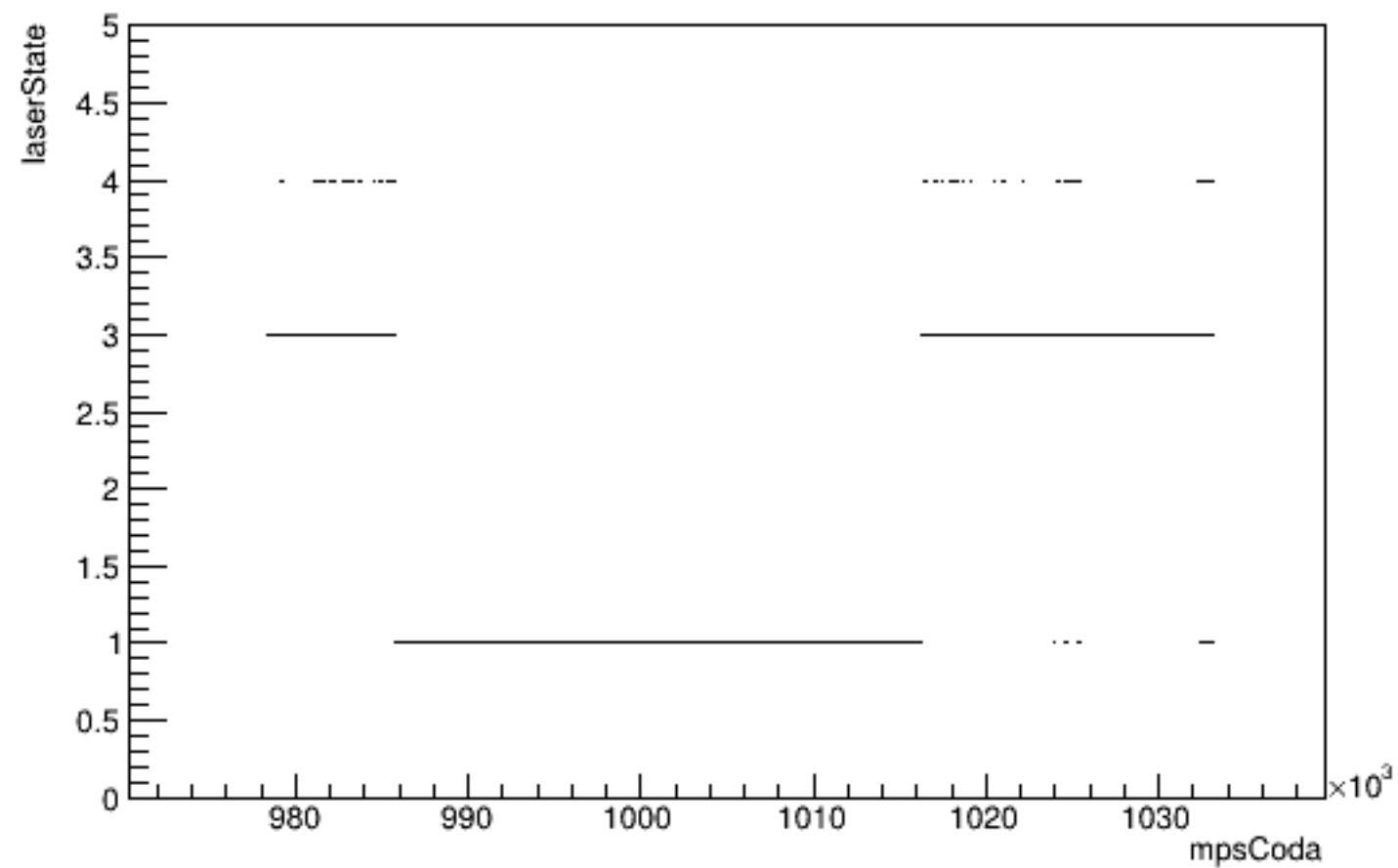
Run 4413 quartetwise, Asyms



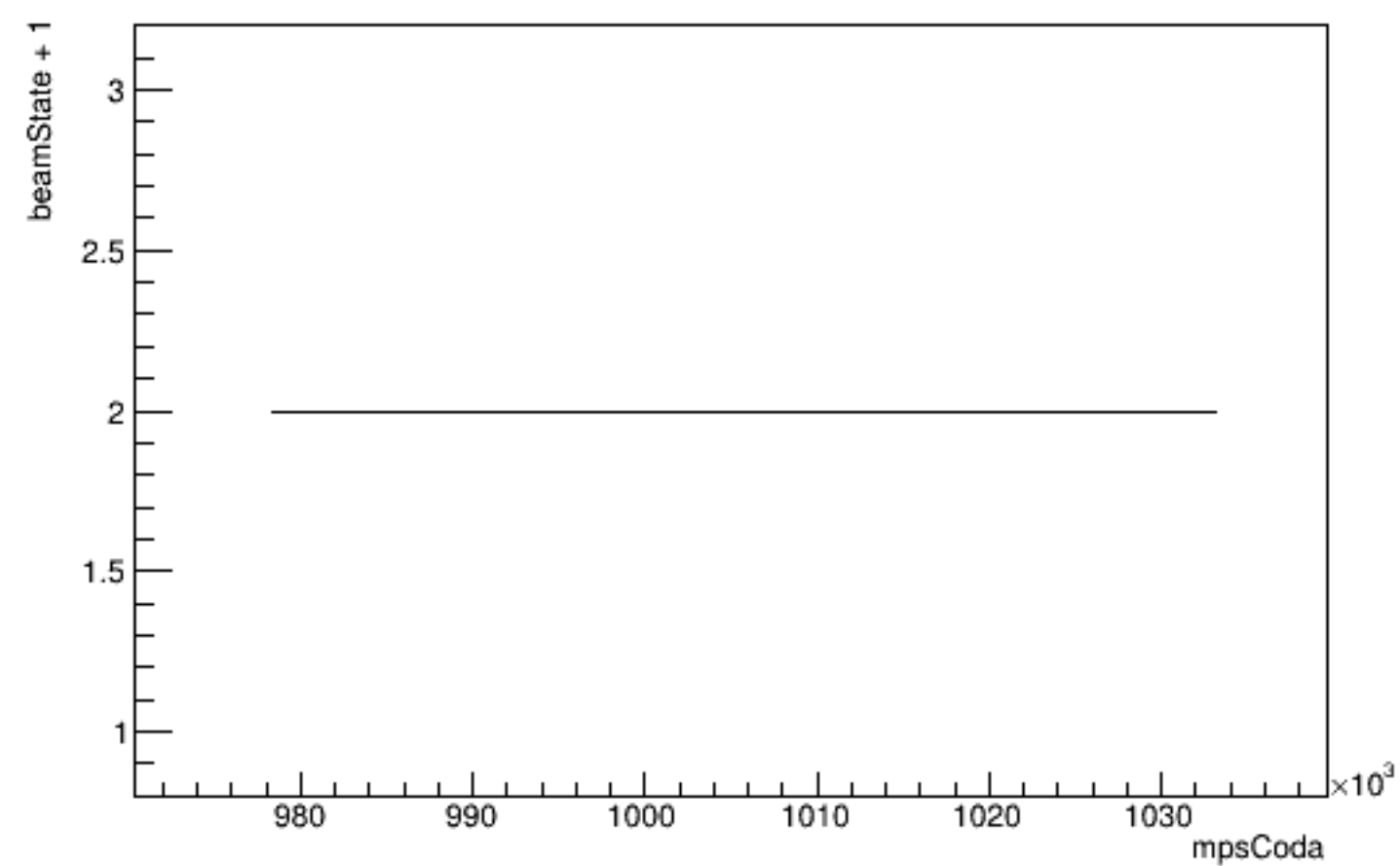
Acc0/NAcc0:mpsCoda (mpsCoda>=978297 && mpsCoda<=1033128 && beamState==1)



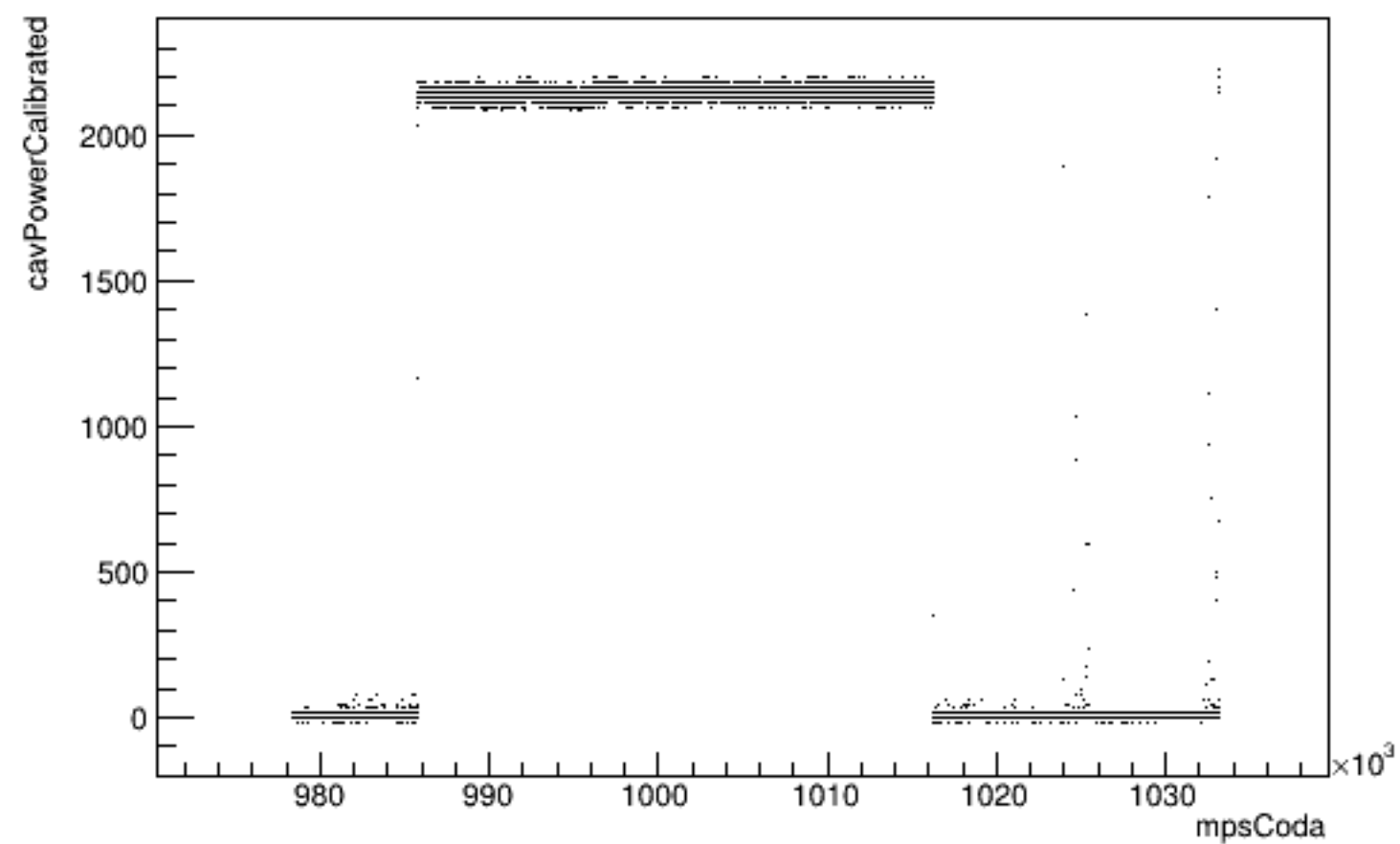
laserState:mpsCoda {mpsCoda&gt;=978297 &amp;&amp; mpsCoda&lt;=1033128}



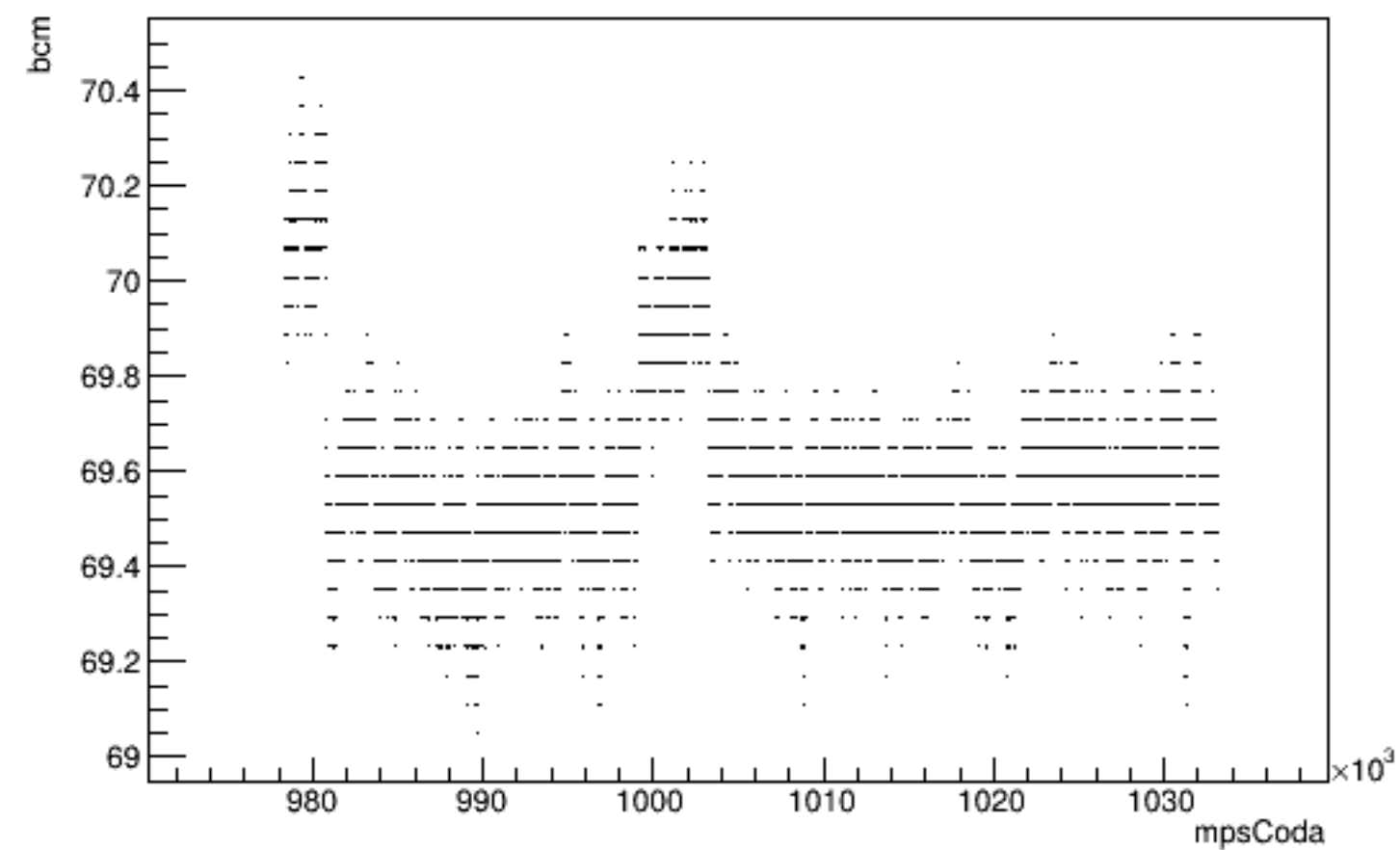
beamState + 1:mpsCoda {mpsCoda&gt;=978297 &amp;&amp; mpsCoda&lt;=1033128}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=978297 &amp;&amp; mpsCoda&lt;=1033128}



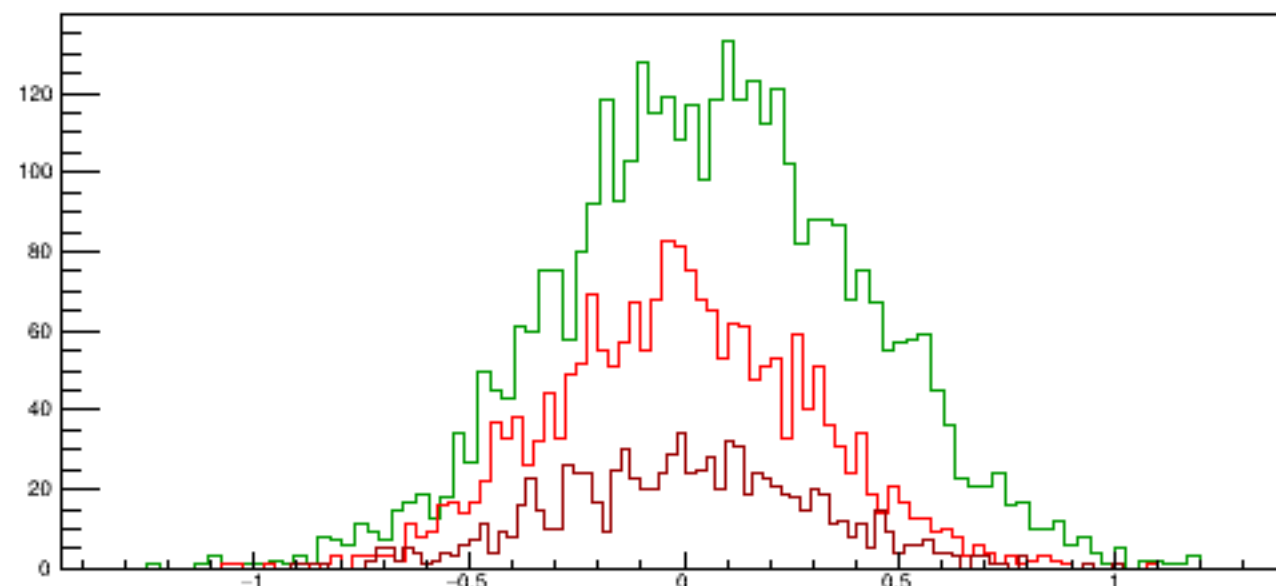
bcm:mpsCoda {mpsCoda&gt;=978297 &amp;&amp; mpsCoda&lt;=1033128}



## Cycle 24, Diffs

| Entries: 2061              | Entries: 3724              | Entries: 917               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0072 +/- 0.0066   | Mean: 0.0630 +/- 0.0058    | Mean: 0.0024 +/- 0.0100    |
| Std Dev: 0.2991 +/- 0.0047 | Std Dev: 0.3514 +/- 0.0041 | Std Dev: 0.3028 +/- 0.0071 |

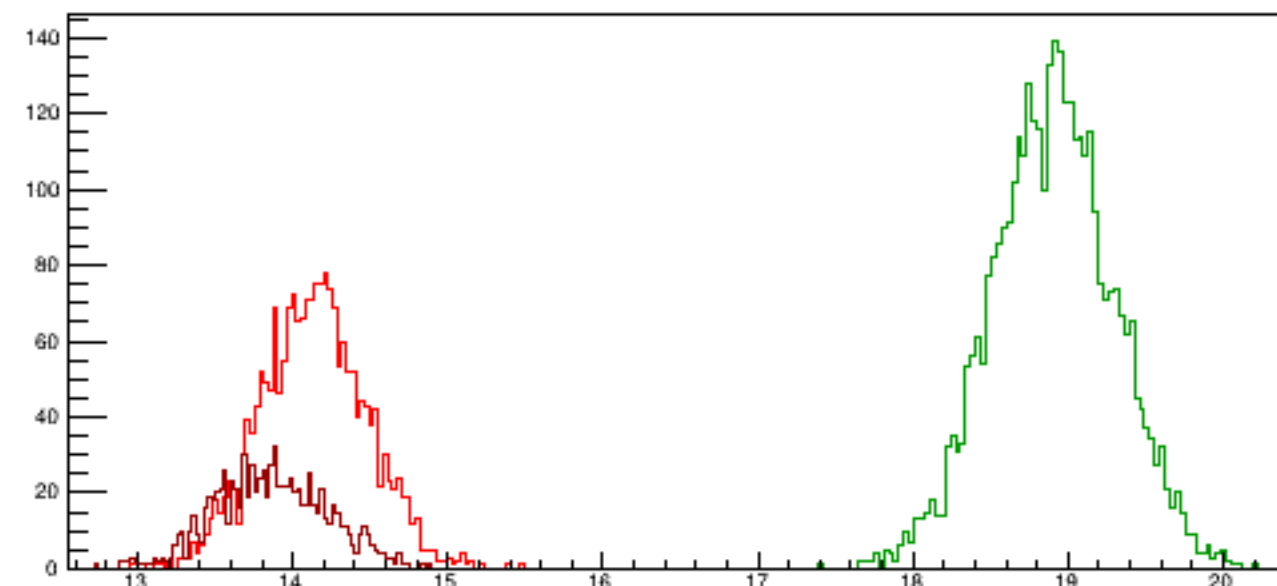
Run 4413 quartetwise, Diffs



## Cycle 24, Sums

| Entries: 2061              | Entries: 3724              | Entries: 917               |
|----------------------------|----------------------------|----------------------------|
| Mean: 14.1308 +/- 0.0075   | Mean: 18.9030 +/- 0.0064   | Mean: 13.8552 +/- 0.0119   |
| Std Dev: 0.3403 +/- 0.0053 | Std Dev: 0.3914 +/- 0.0045 | Std Dev: 0.3599 +/- 0.0084 |

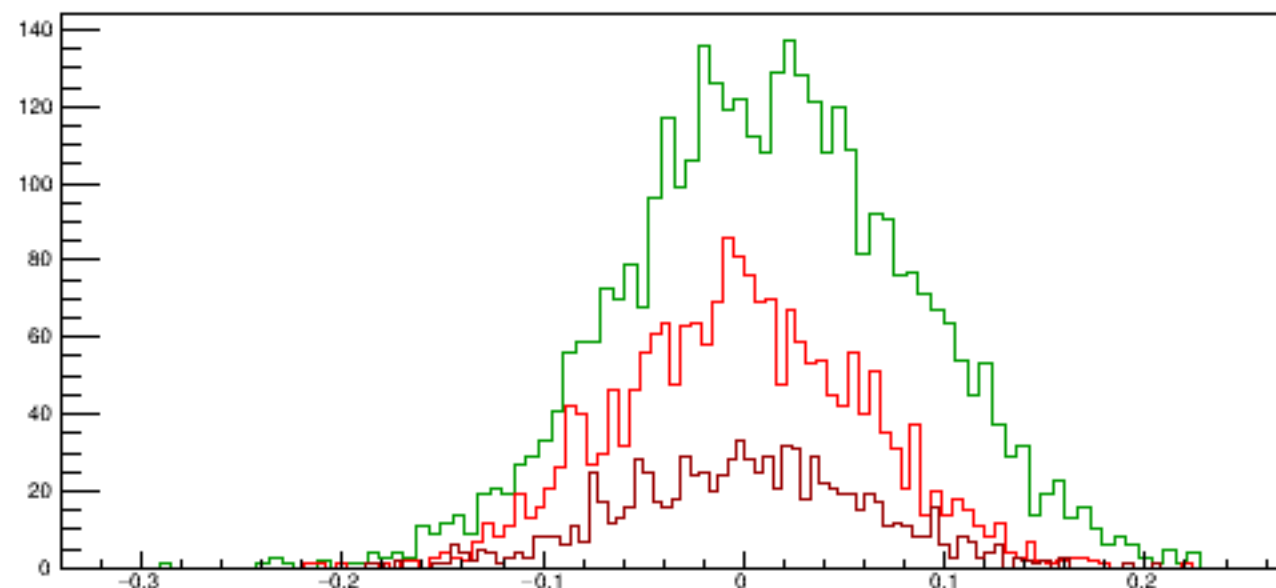
Run 4413 quartetwise, Sums



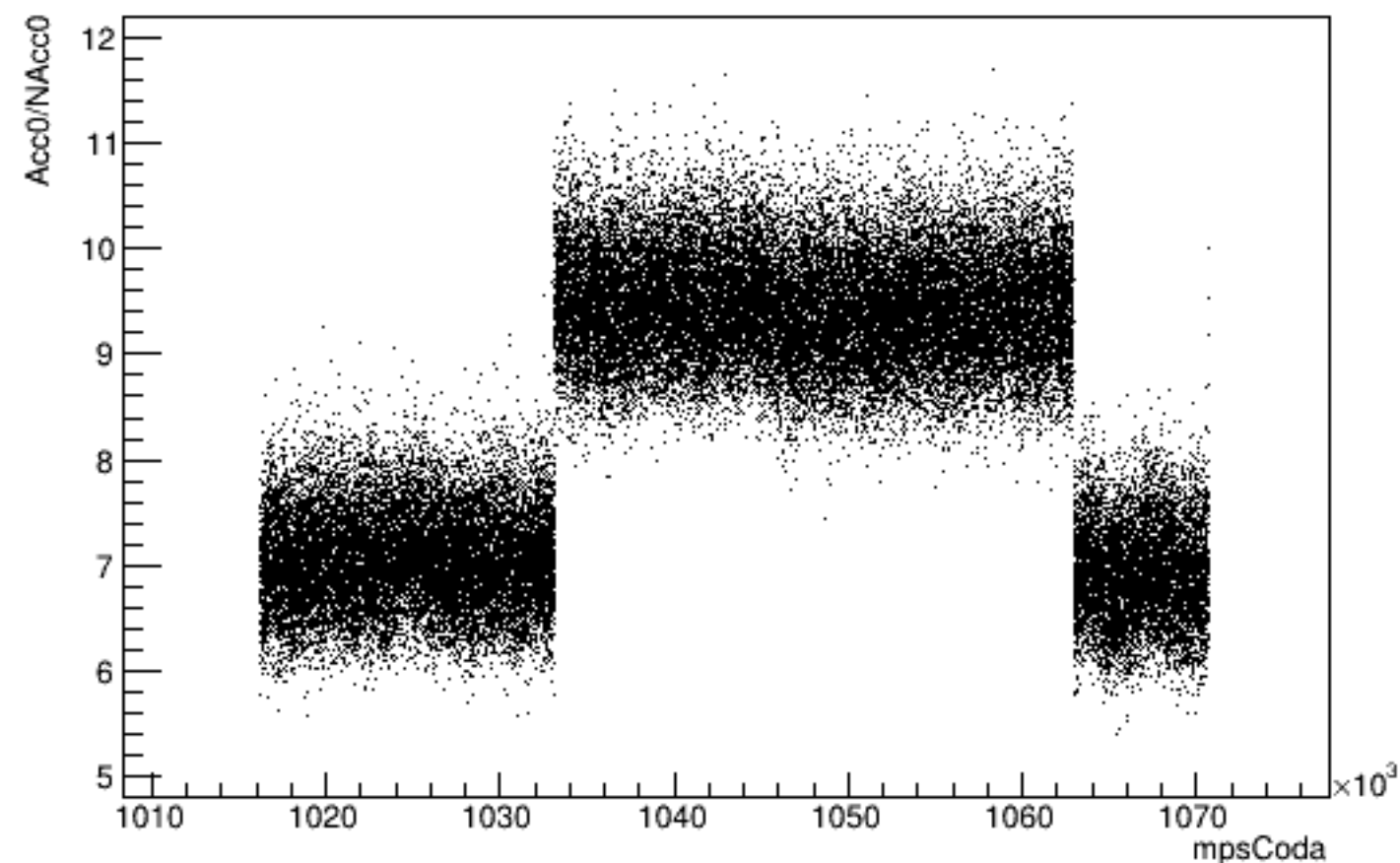
## Cycle 24, Asyms

| Entries: 2061              | Entries: 3724              | Entries: 917               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0015 +/- 0.0013   | Mean: 0.0128 +/- 0.0012    | Mean: 0.0005 +/- 0.0020    |
| Std Dev: 0.0609 +/- 0.0009 | Std Dev: 0.0718 +/- 0.0008 | Std Dev: 0.0617 +/- 0.0014 |

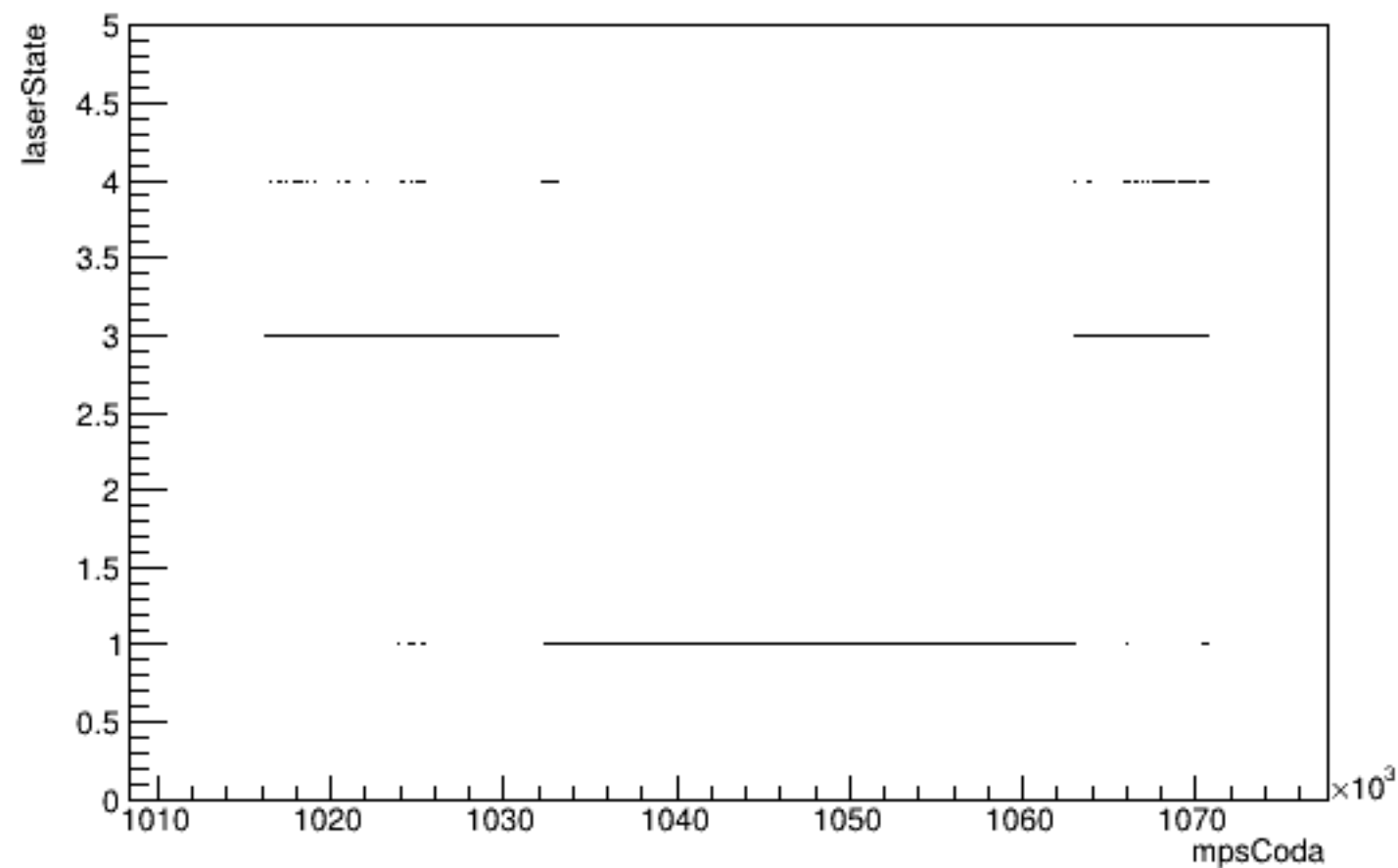
Run 4413 quartetwise, Asyms



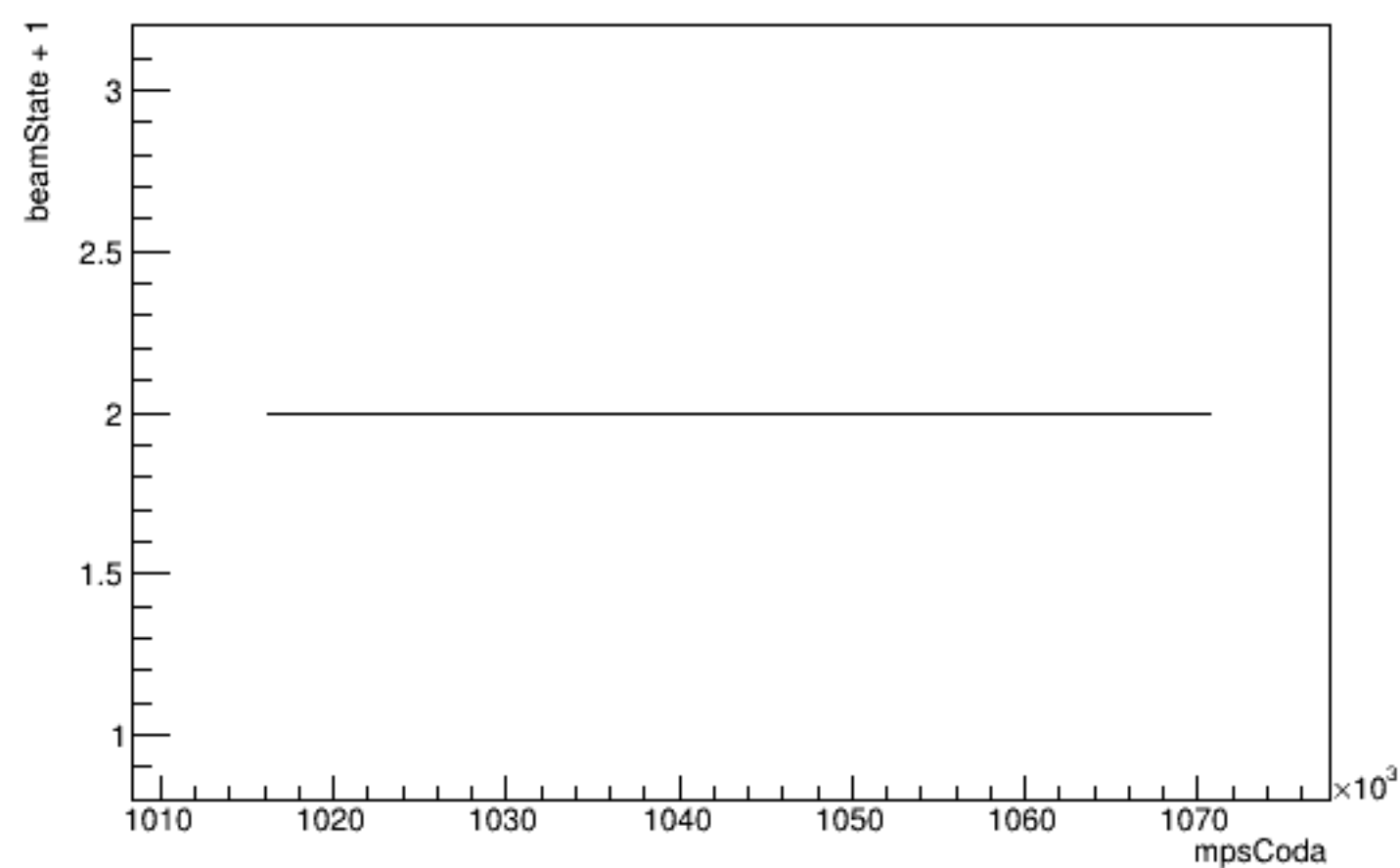
Acc0/NAcc0:mpsCoda (mpsCoda>=1016241 && mpsCoda<=1070664 && beamState==1)



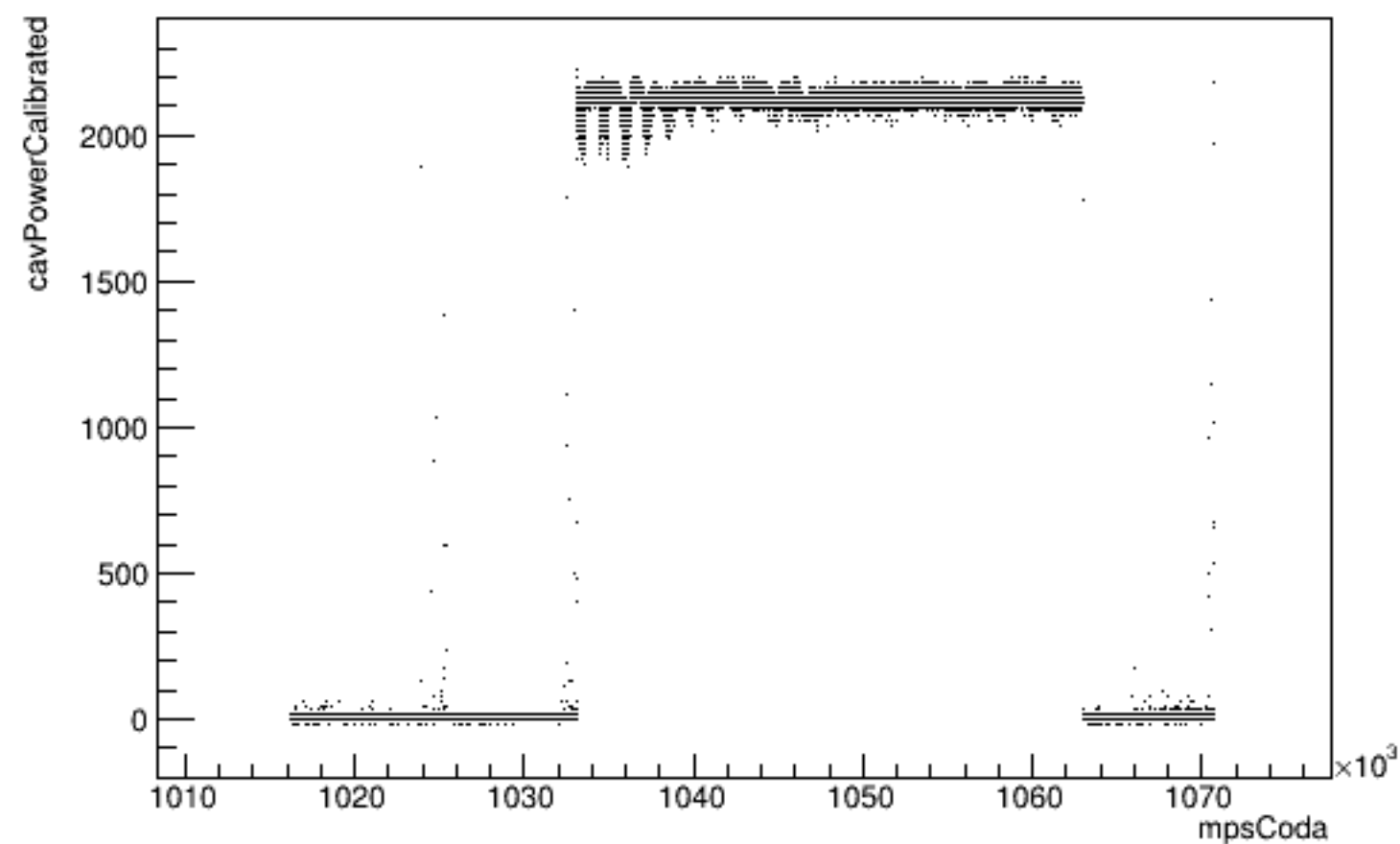
laserState:mpsCoda {mpsCoda&gt;=1016241 &amp;&amp; mpsCoda&lt;=1070664}



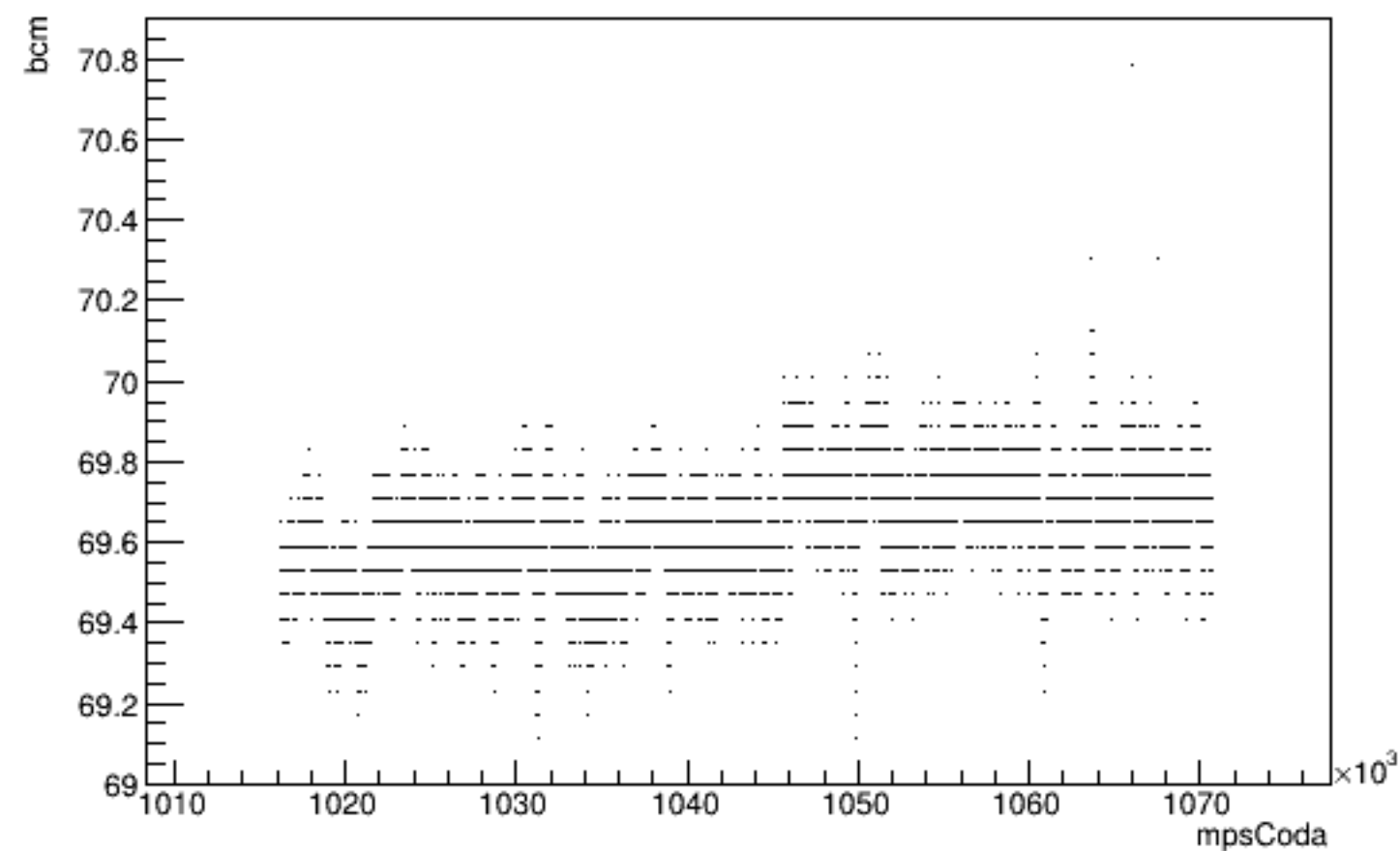
beamState + 1:mpsCoda {mpsCoda&gt;=1016241 &amp;&amp; mpsCoda&lt;=1070664}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1016241 &amp;&amp; mpsCoda&lt;=1070664}



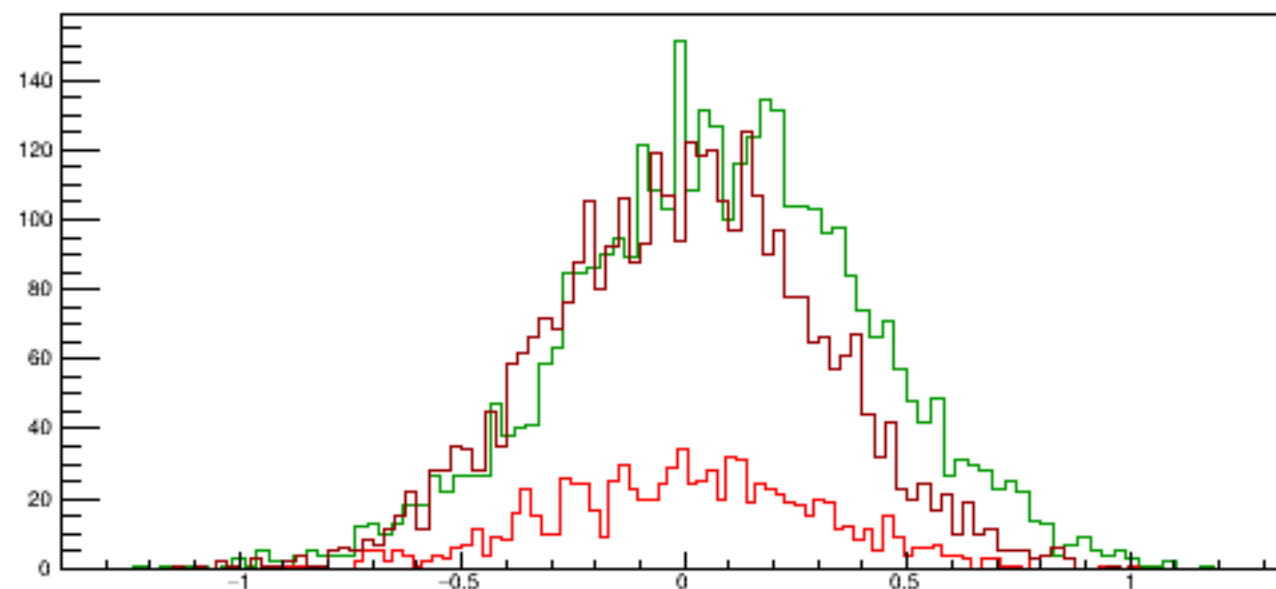
bcm:mpsCoda {mpsCoda&gt;=1016241 &amp;&amp; mpsCoda&lt;=1070664}



## Cycle 25, Diffs

| Entries: 917               | Entries: 3775              | Entries: 3475              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0024 +/- 0.0100    | Mean: 0.0765 +/- 0.0055    | Mean: -0.0058 +/- 0.0052   |
| Std Dev: 0.3028 +/- 0.0071 | Std Dev: 0.3406 +/- 0.0039 | Std Dev: 0.3072 +/- 0.0037 |

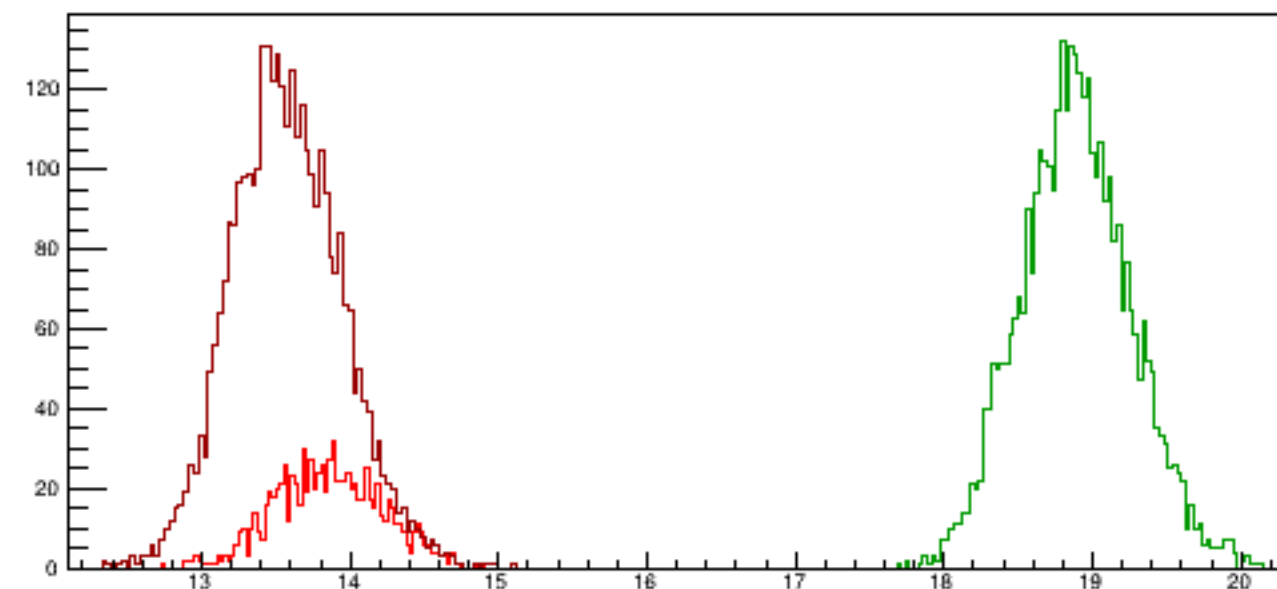
Run 4413 quartetwise, Diffs



## Cycle 25, Sums

| Entries: 917               | Entries: 3775              | Entries: 3475              |
|----------------------------|----------------------------|----------------------------|
| Mean: 13.8552 +/- 0.0119   | Mean: 18.8892 +/- 0.0061   | Mean: 13.5760 +/- 0.0063   |
| Std Dev: 0.3599 +/- 0.0084 | Std Dev: 0.3725 +/- 0.0043 | Std Dev: 0.3711 +/- 0.0045 |

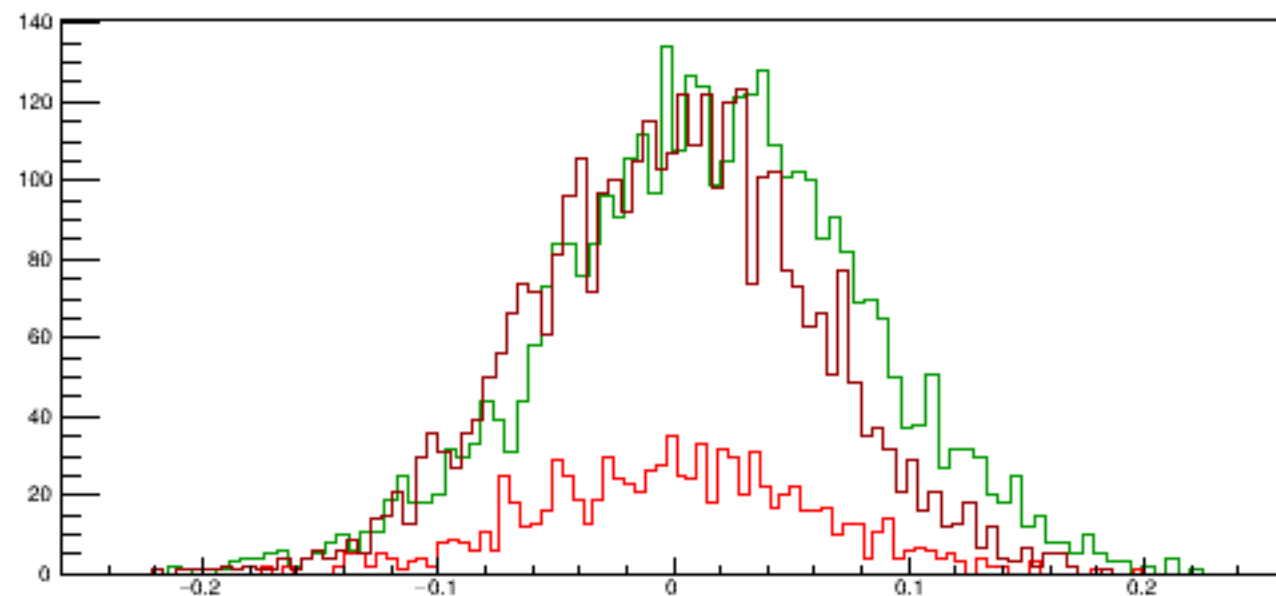
Run 4413 quartetwise, Sums



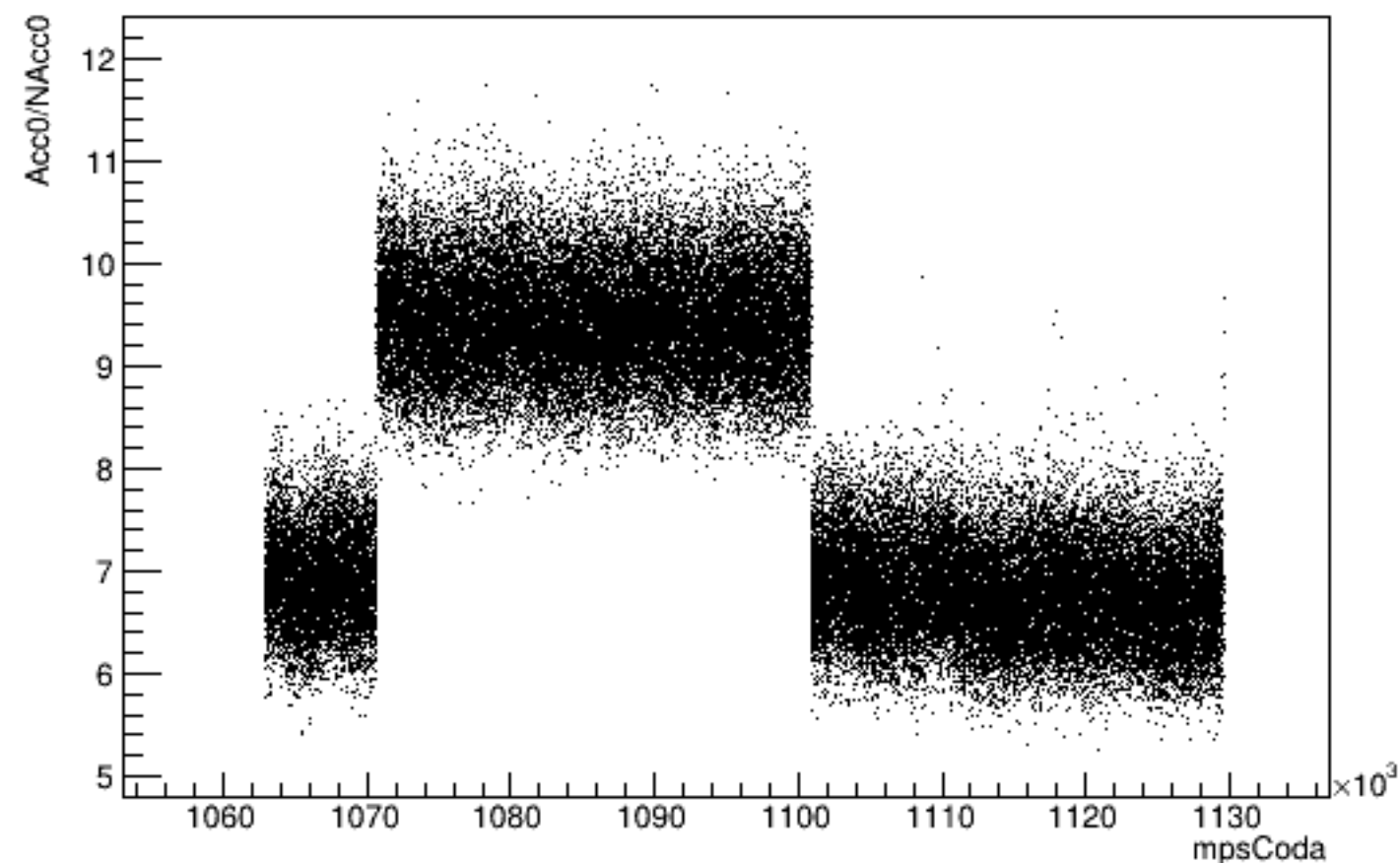
## Cycle 25, Asyms

| Entries: 917               | Entries: 3775              | Entries: 3475              |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0005 +/- 0.0019    | Mean: 0.0149 +/- 0.0011    | Mean: -0.0011 +/- 0.0010   |
| Std Dev: 0.0585 +/- 0.0014 | Std Dev: 0.0660 +/- 0.0008 | Std Dev: 0.0594 +/- 0.0007 |

Run 4413 quartetwise, Asyms

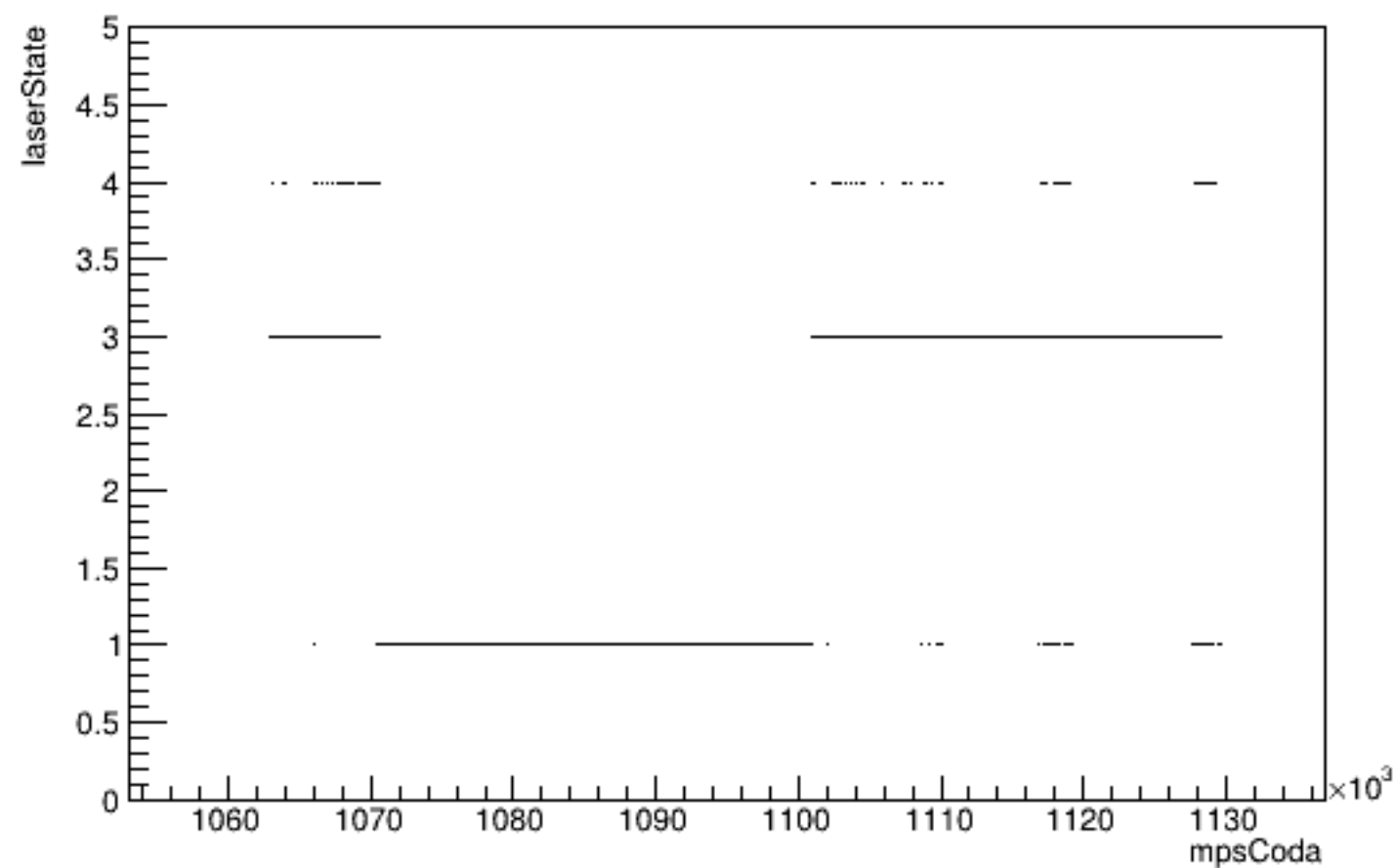


Acc0/NAcc0:mpsCoda (mpsCoda>=1062921 && mpsCoda<=1129592 && beamState==1)

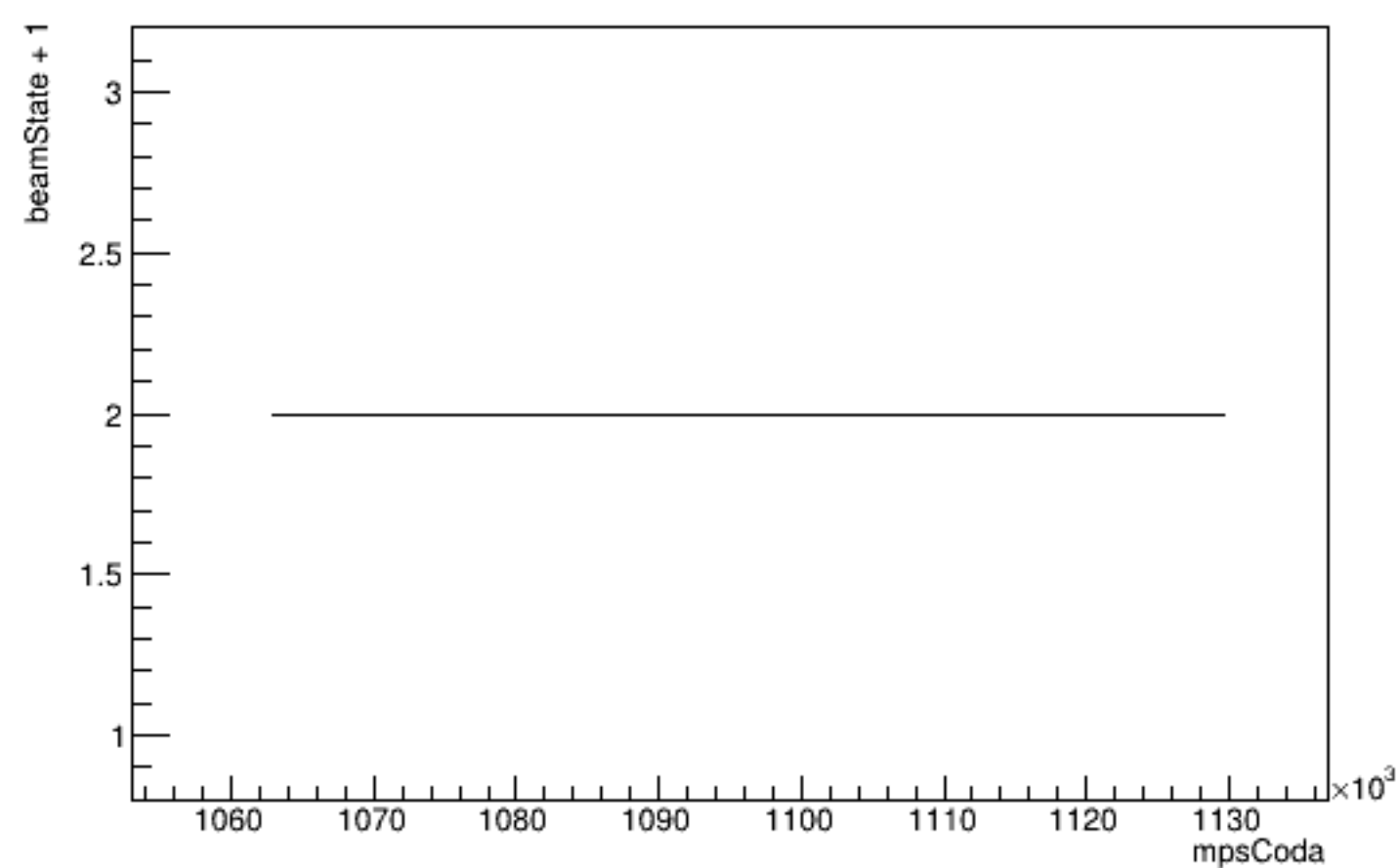




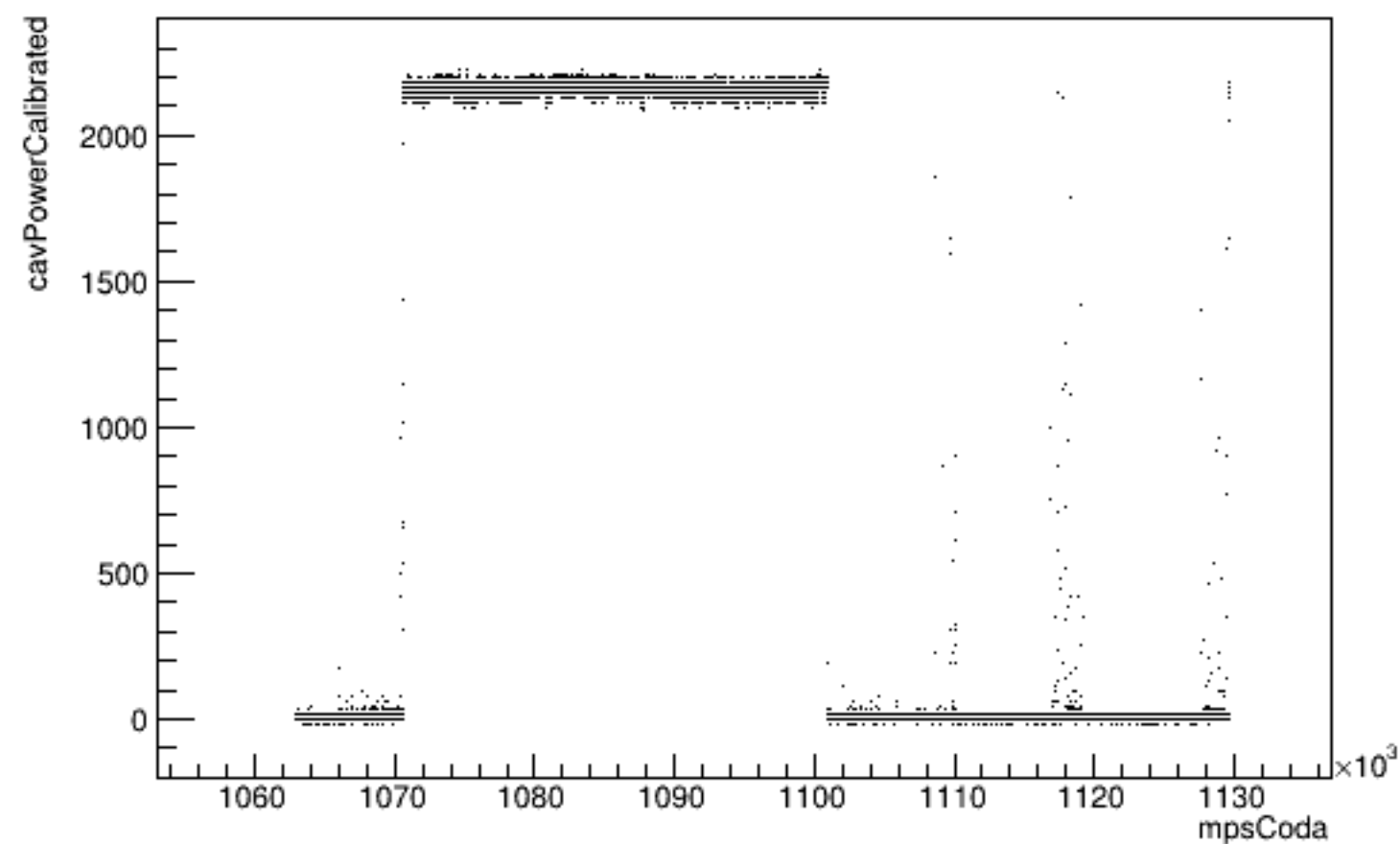
laserState:mpsCoda {mpsCoda&gt;=1062921 &amp;&amp; mpsCoda&lt;=1129592}



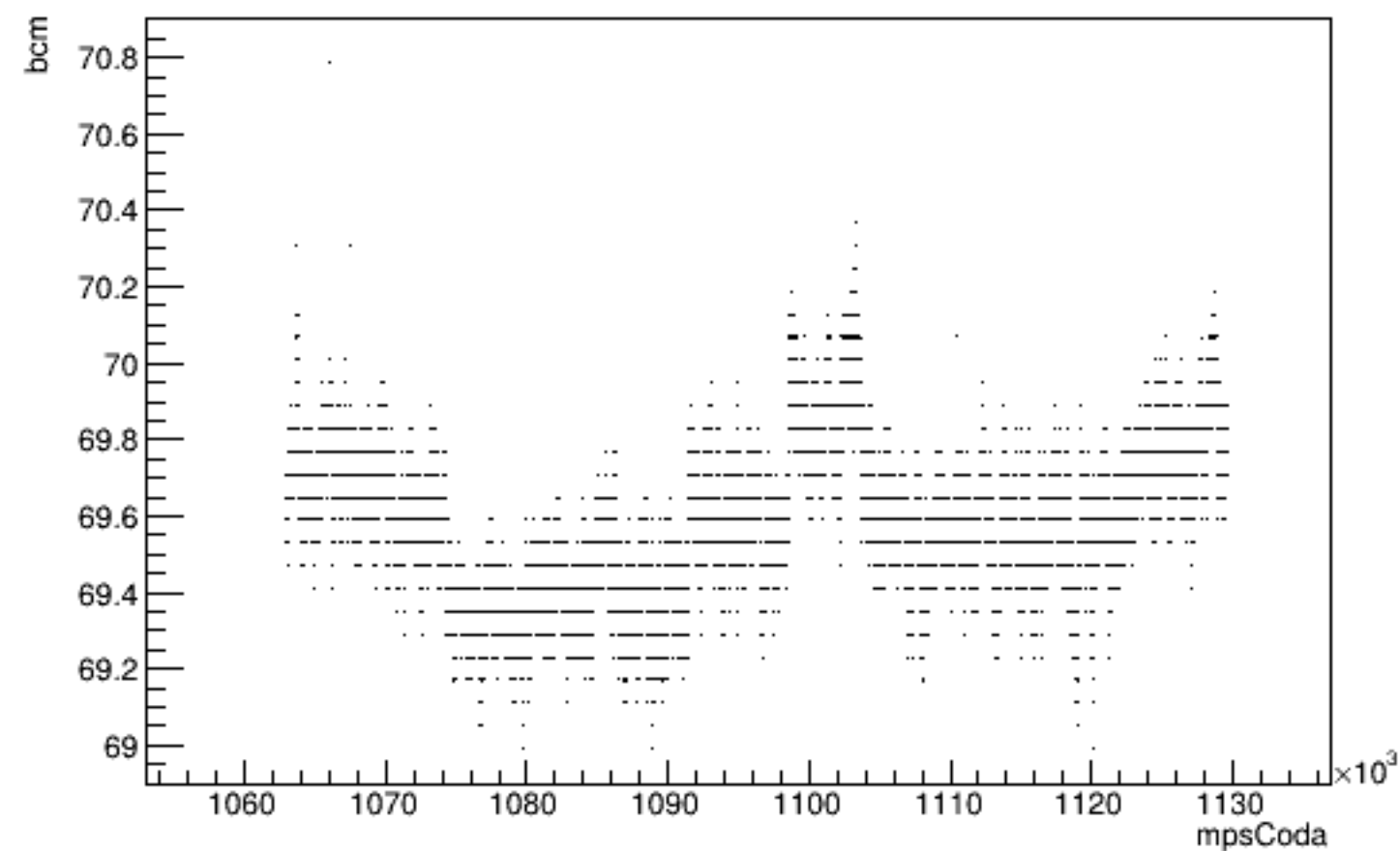
beamState + 1:mpsCoda {mpsCoda&gt;=1062921 &amp;&amp; mpsCoda&lt;=1129592}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1062921 &amp;&amp; mpsCoda&lt;=1129592}



bcm:mpsCoda {mpsCoda&gt;=1062921 &amp;&amp; mpsCoda&lt;=1129592}





## Cycle 26, Diffs

Entries: 3475

Mean: -0.0058 +/- 0.0052

Std Dev: 0.3072 +/- 0.0037

Entries: 3762

Mean: 0.0665 +/- 0.0056

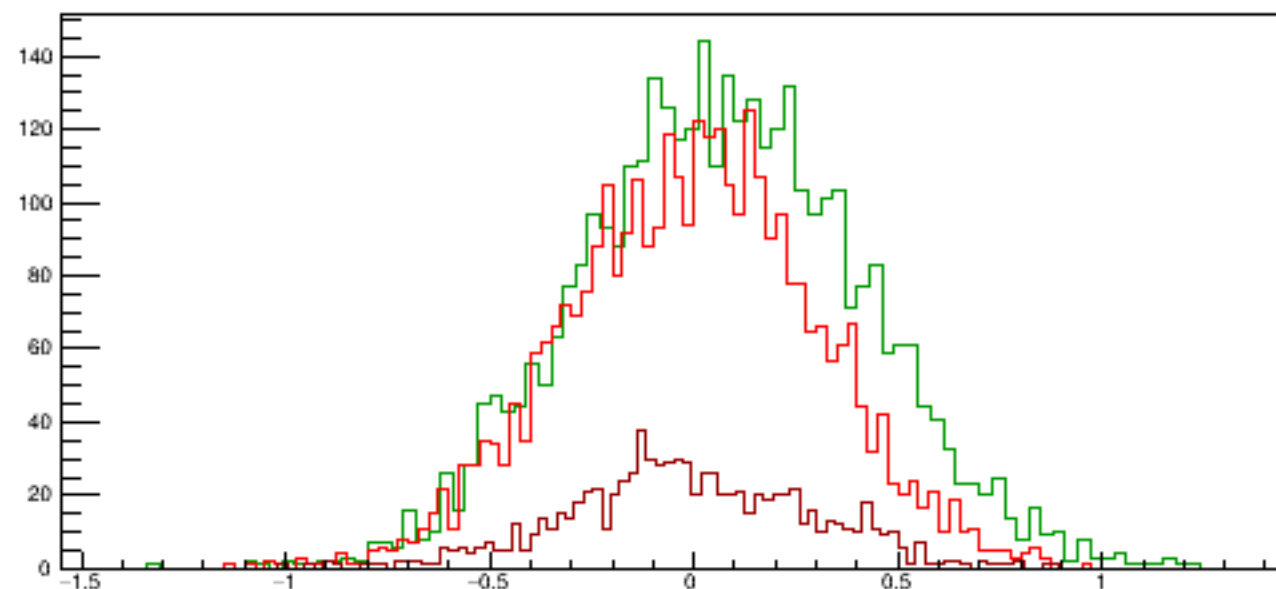
Std Dev: 0.3450 +/- 0.0040

Entries: 877

Mean: -0.0110 +/- 0.0100

Std Dev: 0.2971 +/- 0.0071

Run 4413 quartetwise, Diffs



## Cycle 26, Sums

Entries: 3475

Mean: 13.5760 +/- 0.0063

Std Dev: 0.3711 +/- 0.0045

Entries: 3762

Mean: 18.6348 +/- 0.0064

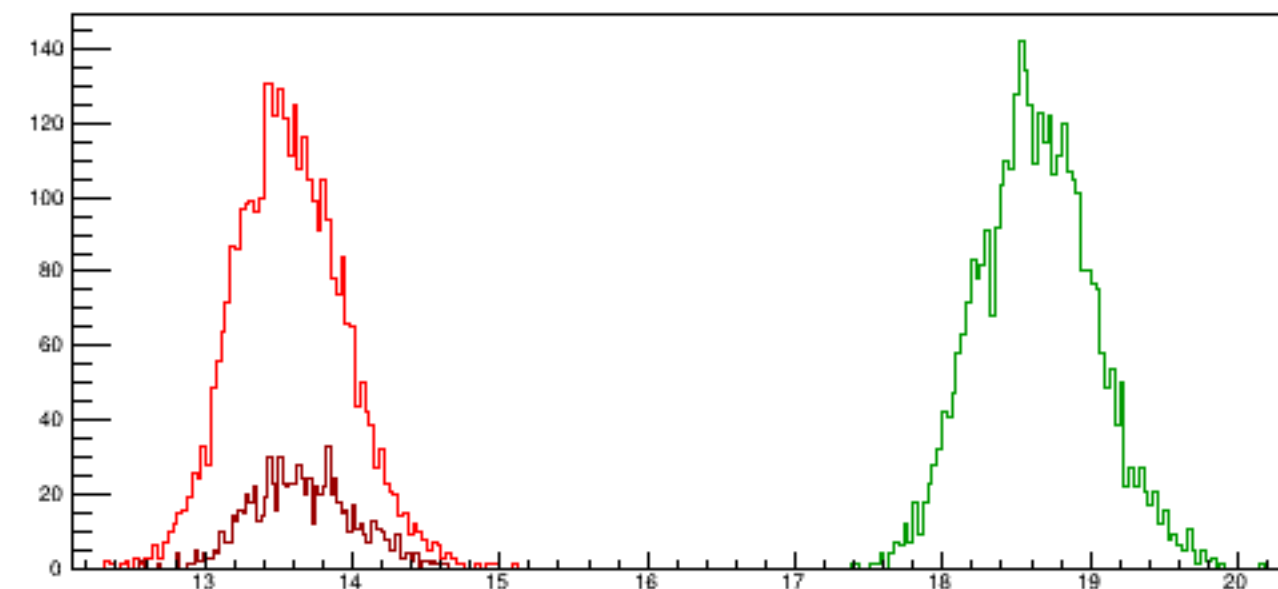
Std Dev: 0.3911 +/- 0.0045

Entries: 877

Mean: 13.6641 +/- 0.0117

Std Dev: 0.3475 +/- 0.0083

Run 4413 quartetwise, Sums



## Cycle 26, Asyms

Entries: 3475

Mean: -0.0012 +/- 0.0010

Std Dev: 0.0613 +/- 0.0007

Entries: 3762

Mean: 0.0134 +/- 0.0011

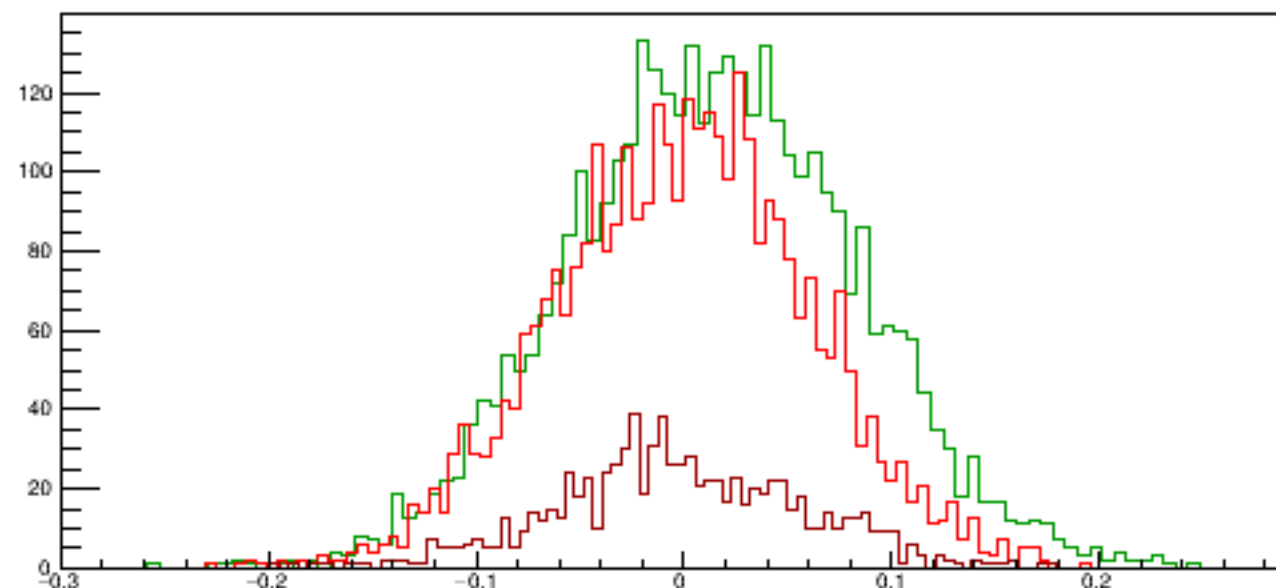
Std Dev: 0.0690 +/- 0.0008

Entries: 877

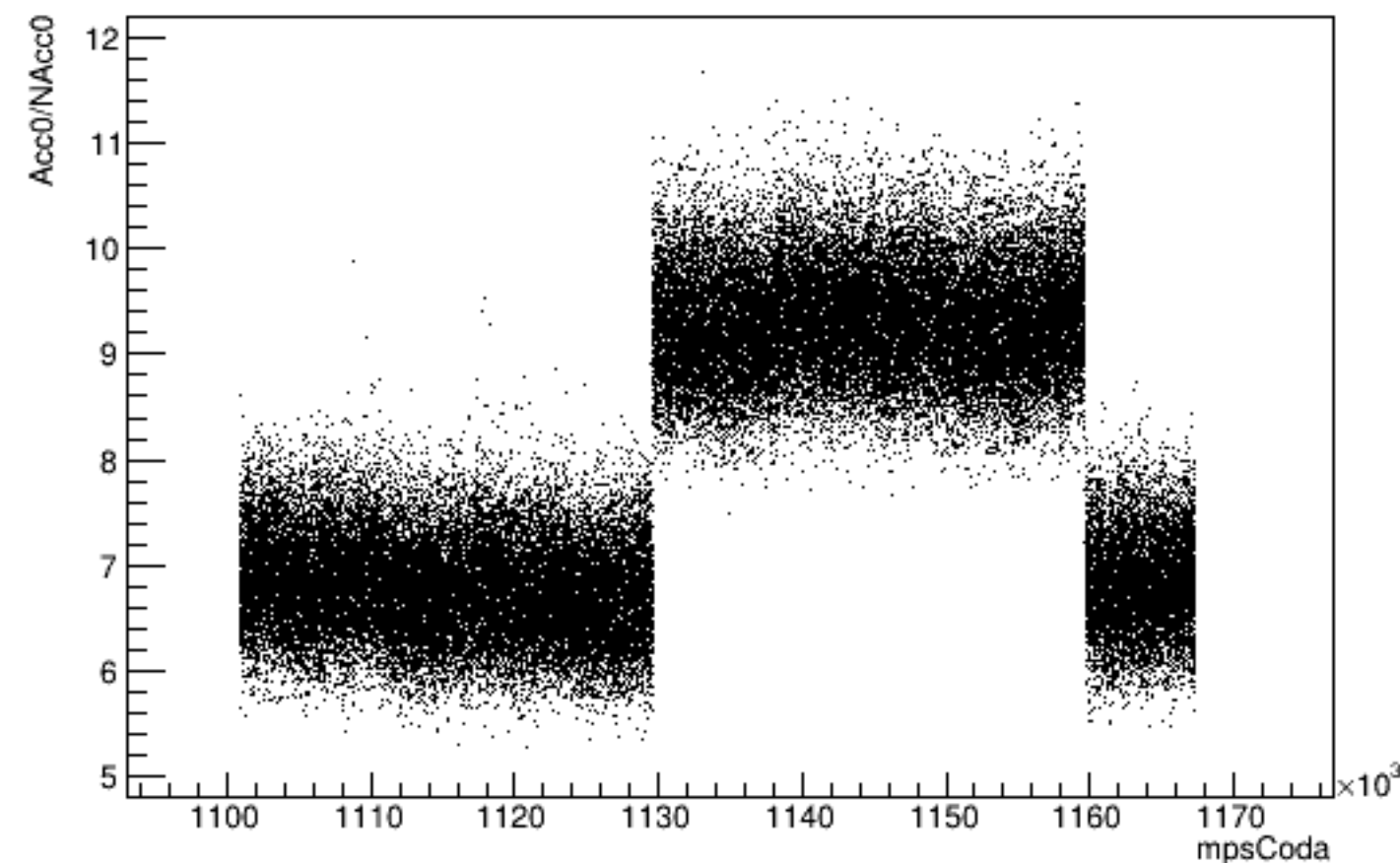
Mean: -0.0022 +/- 0.0020

Std Dev: 0.0592 +/- 0.0014

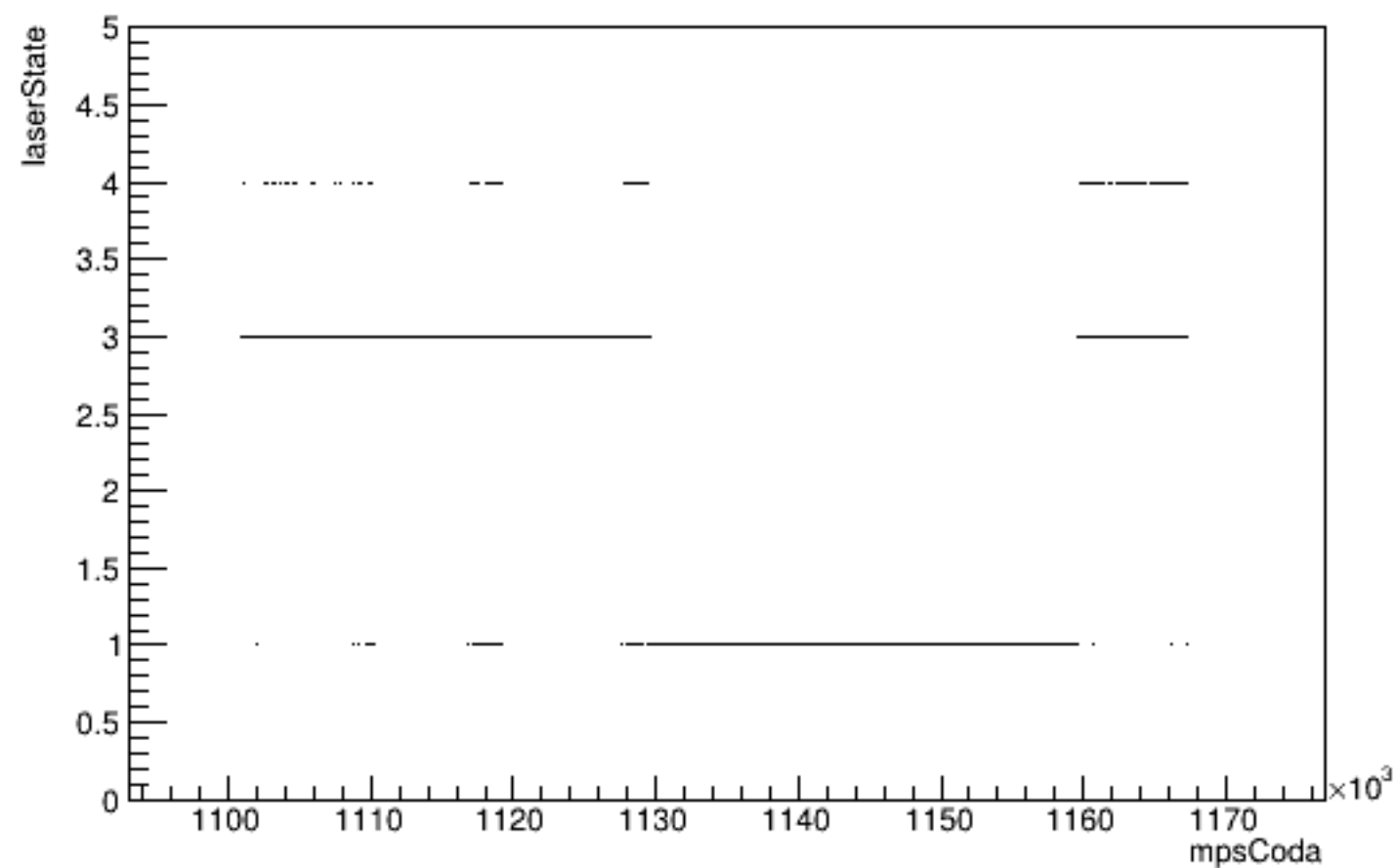
Run 4413 quartetwise, Asyms



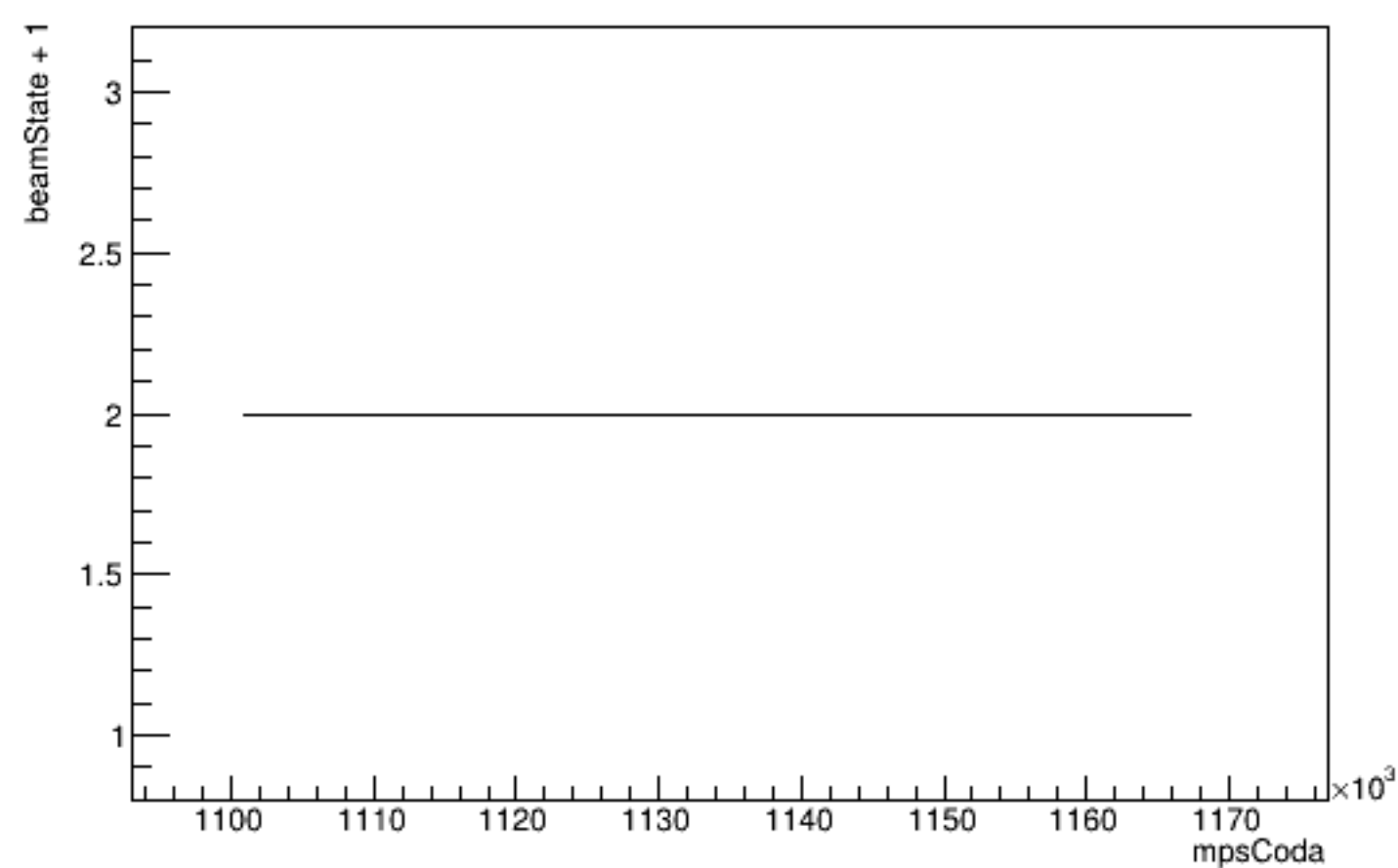
Acc0/NAcc0:mpsCoda (mpsCoda>=1100873 && mpsCoda<=1167360 && beamState==1)



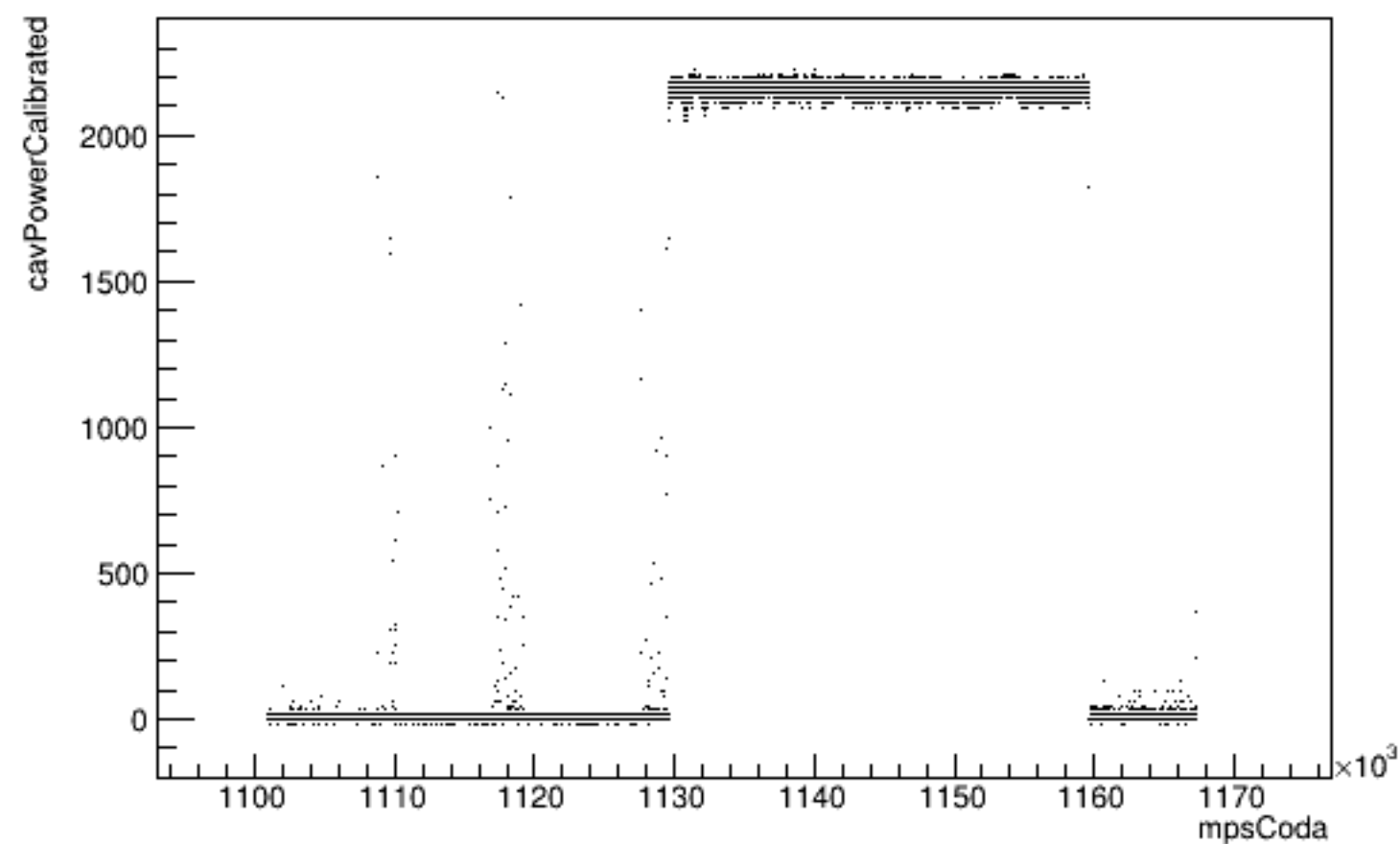
laserState:mpsCoda {mpsCoda&gt;=1100873 &amp;&amp; mpsCoda&lt;=1167360}



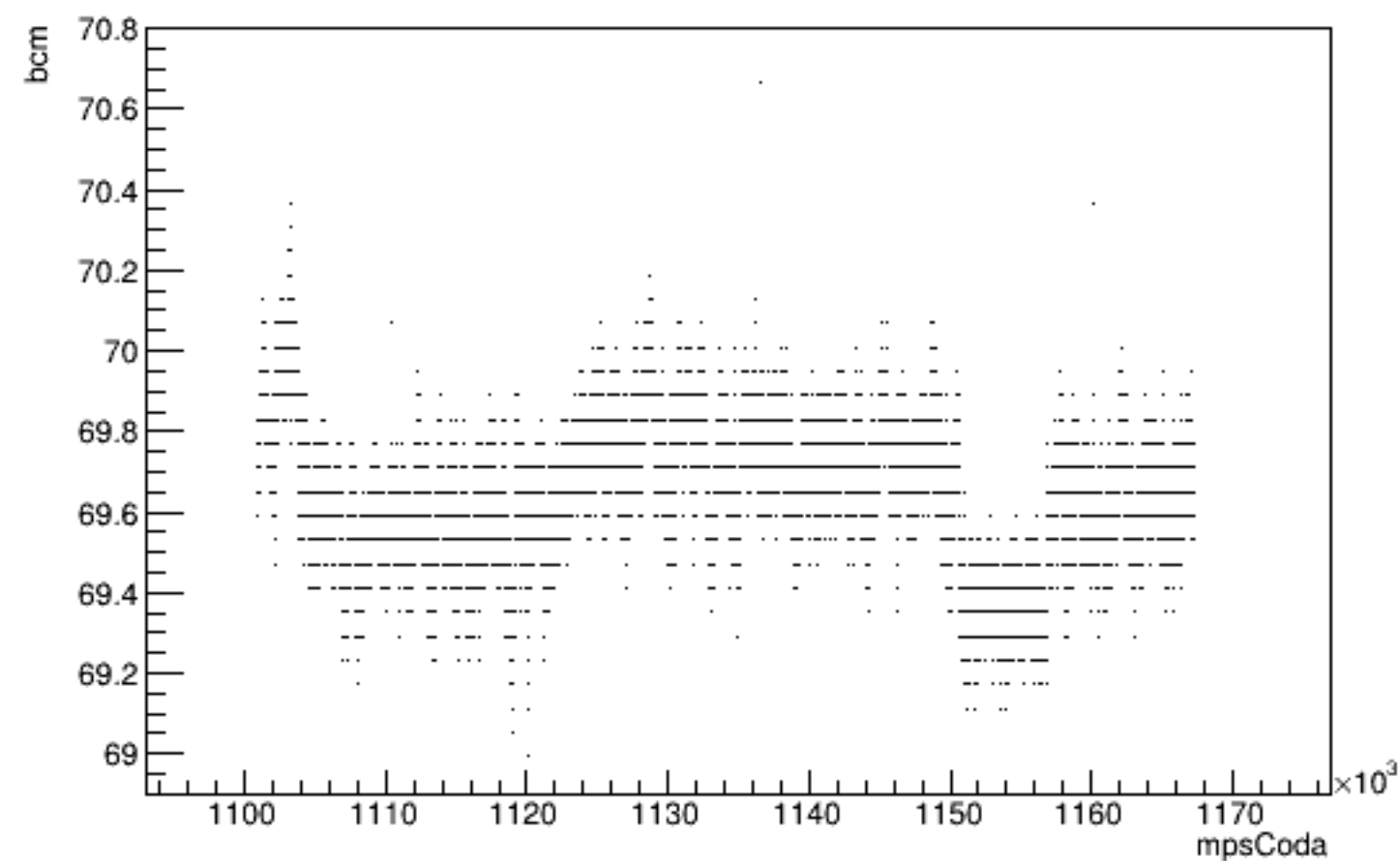
beamState + 1:mpsCoda {mpsCoda&gt;=1100873 &amp;&amp; mpsCoda&lt;=1167360}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1100873 &amp;&amp; mpsCoda&lt;=1167360}



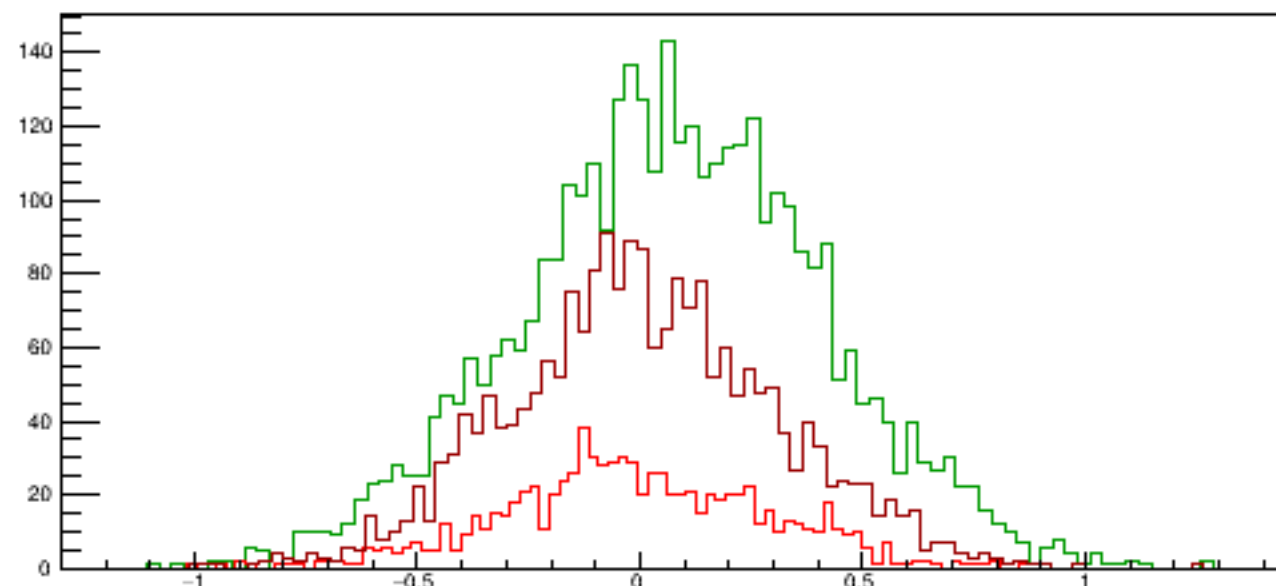
bcm:mpsCoda {mpsCoda&gt;=1100873 &amp;&amp; mpsCoda&lt;=1167360}



## Cycle 27, Diffs

| Entries: 877               | Entries: 3784              | Entries: 2135              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0110 +/- 0.0100   | Mean: 0.0708 +/- 0.0055    | Mean: 0.0071 +/- 0.0065    |
| Std Dev: 0.2971 +/- 0.0071 | Std Dev: 0.3408 +/- 0.0039 | Std Dev: 0.3013 +/- 0.0046 |

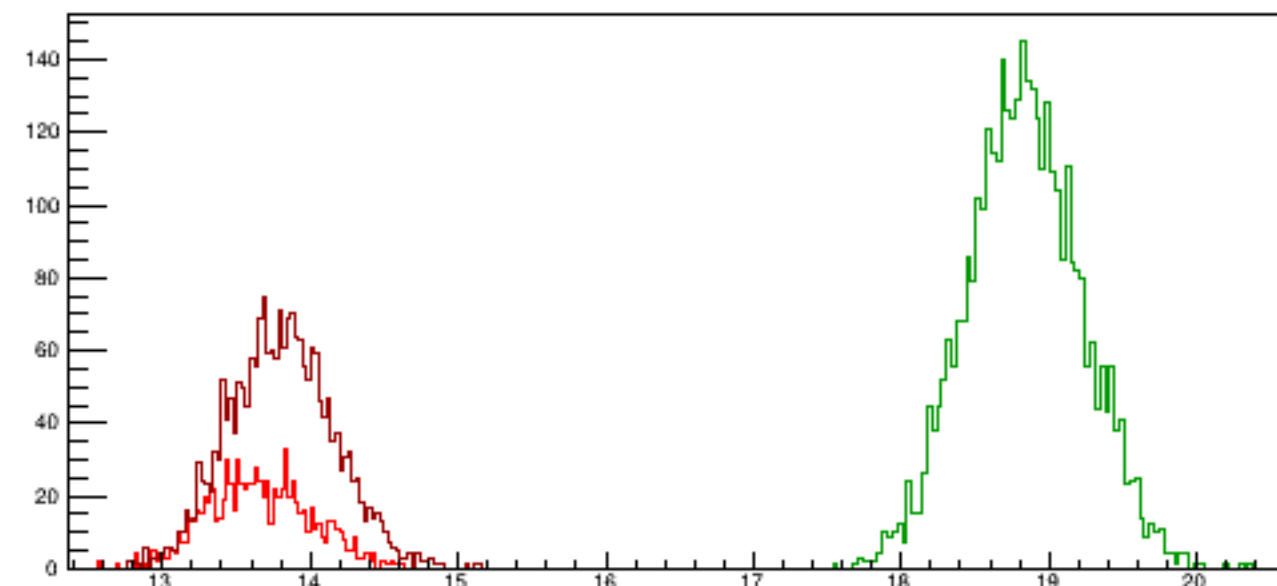
Run 4413 quartetwise, Diffs



## Cycle 27, Sums

| Entries: 877               | Entries: 3784              | Entries: 2135              |
|----------------------------|----------------------------|----------------------------|
| Mean: 13.6641 +/- 0.0117   | Mean: 18.8327 +/- 0.0063   | Mean: 13.8040 +/- 0.0076   |
| Std Dev: 0.3475 +/- 0.0083 | Std Dev: 0.3849 +/- 0.0044 | Std Dev: 0.3533 +/- 0.0054 |

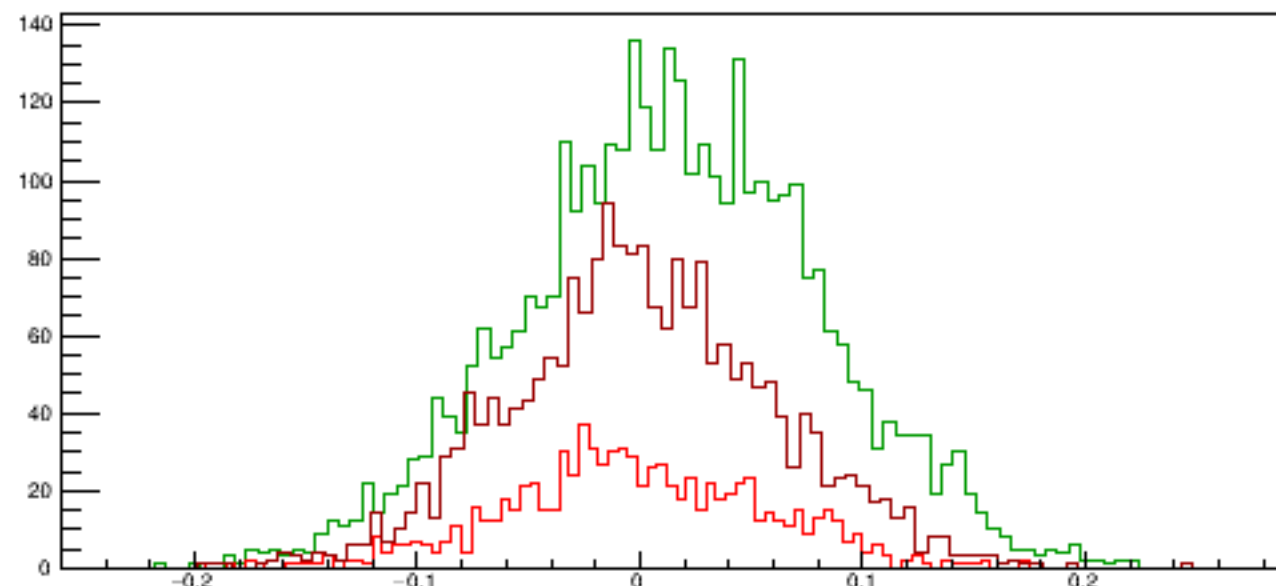
Run 4413 quartetwise, Sums



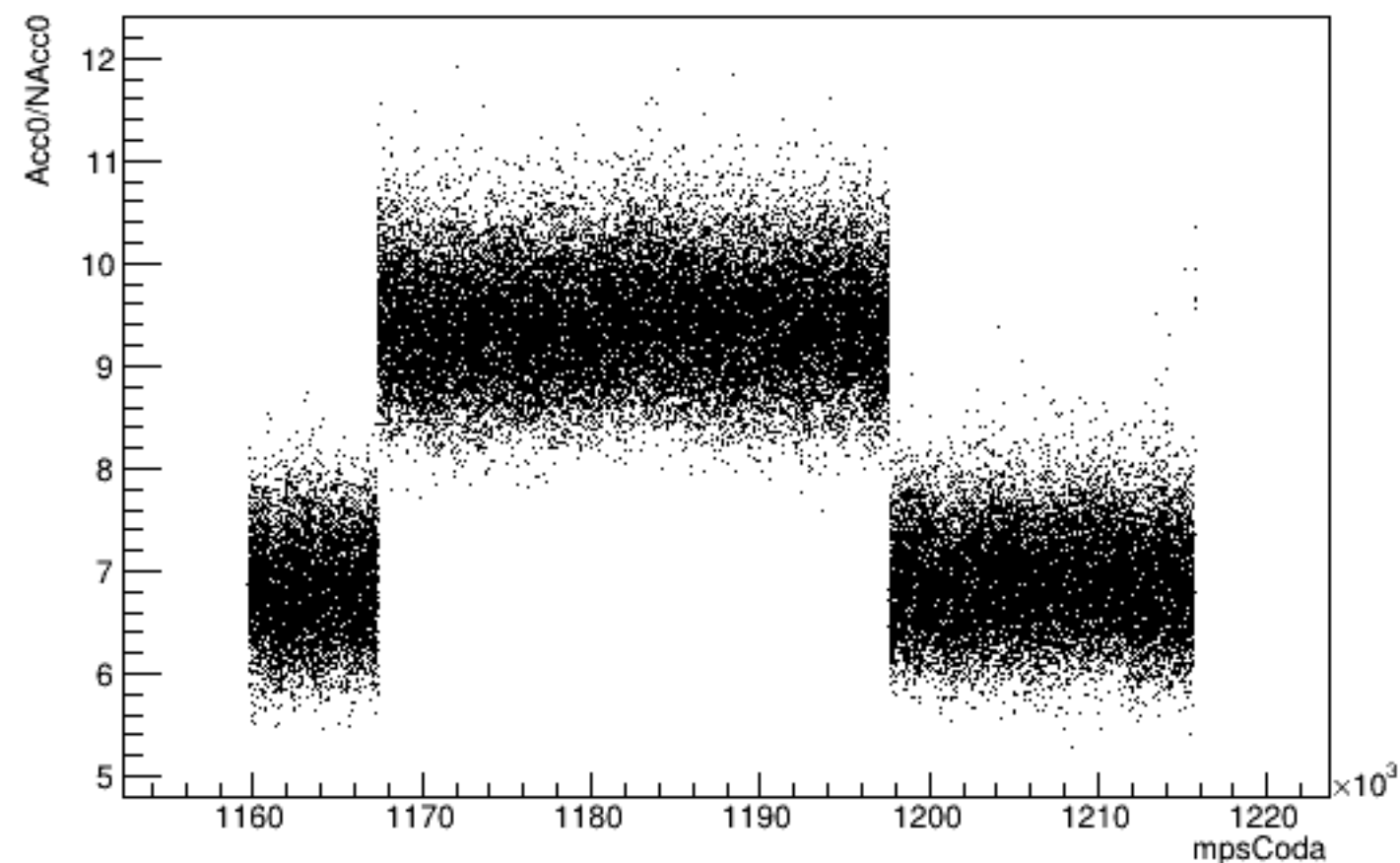
## Cycle 27, Asyms

| Entries: 877               | Entries: 3784              | Entries: 2135              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0022 +/- 0.0020   | Mean: 0.0141 +/- 0.0011    | Mean: 0.0014 +/- 0.0013    |
| Std Dev: 0.0583 +/- 0.0014 | Std Dev: 0.0669 +/- 0.0008 | Std Dev: 0.0591 +/- 0.0009 |

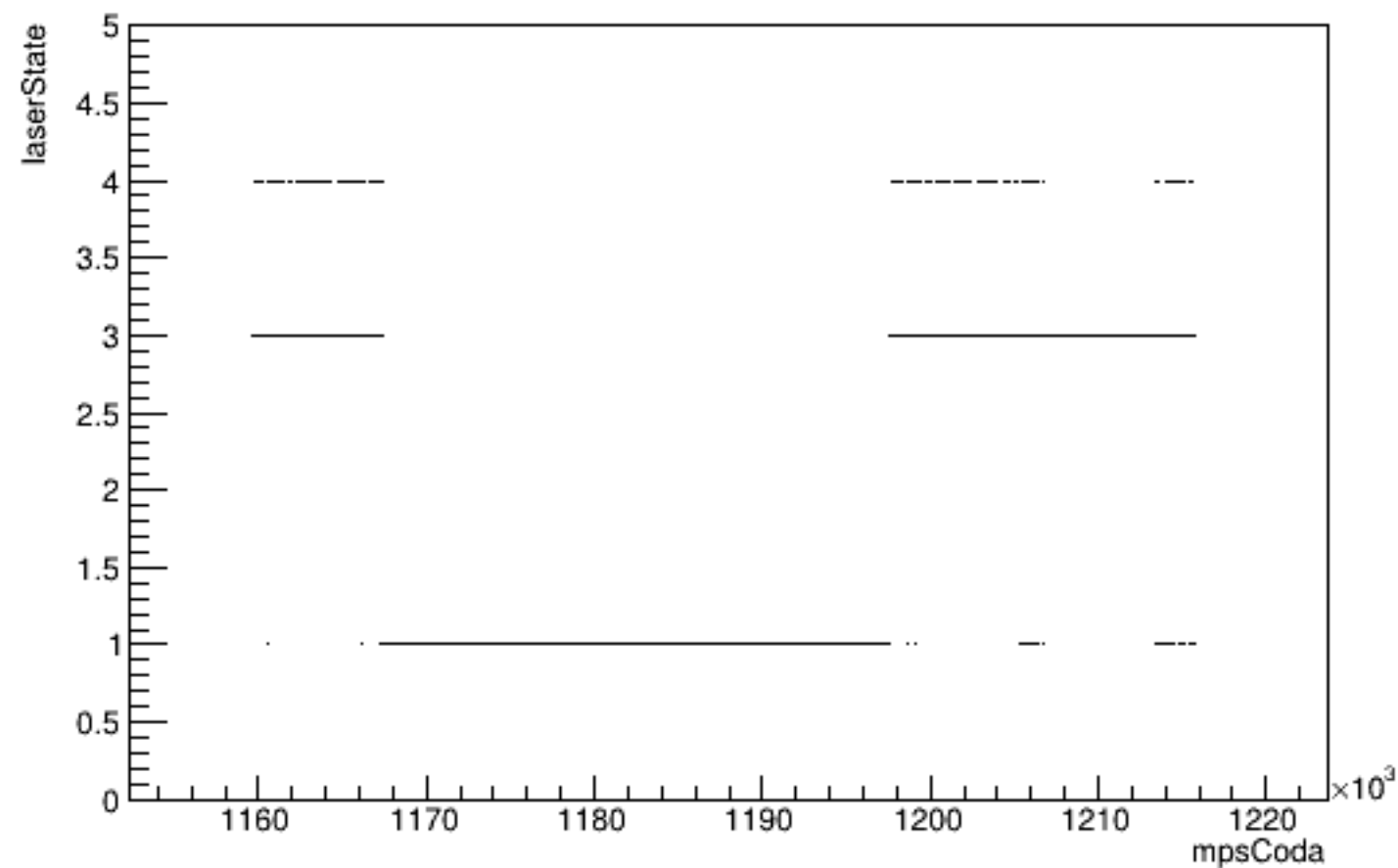
Run 4413 quartetwise, Asyms



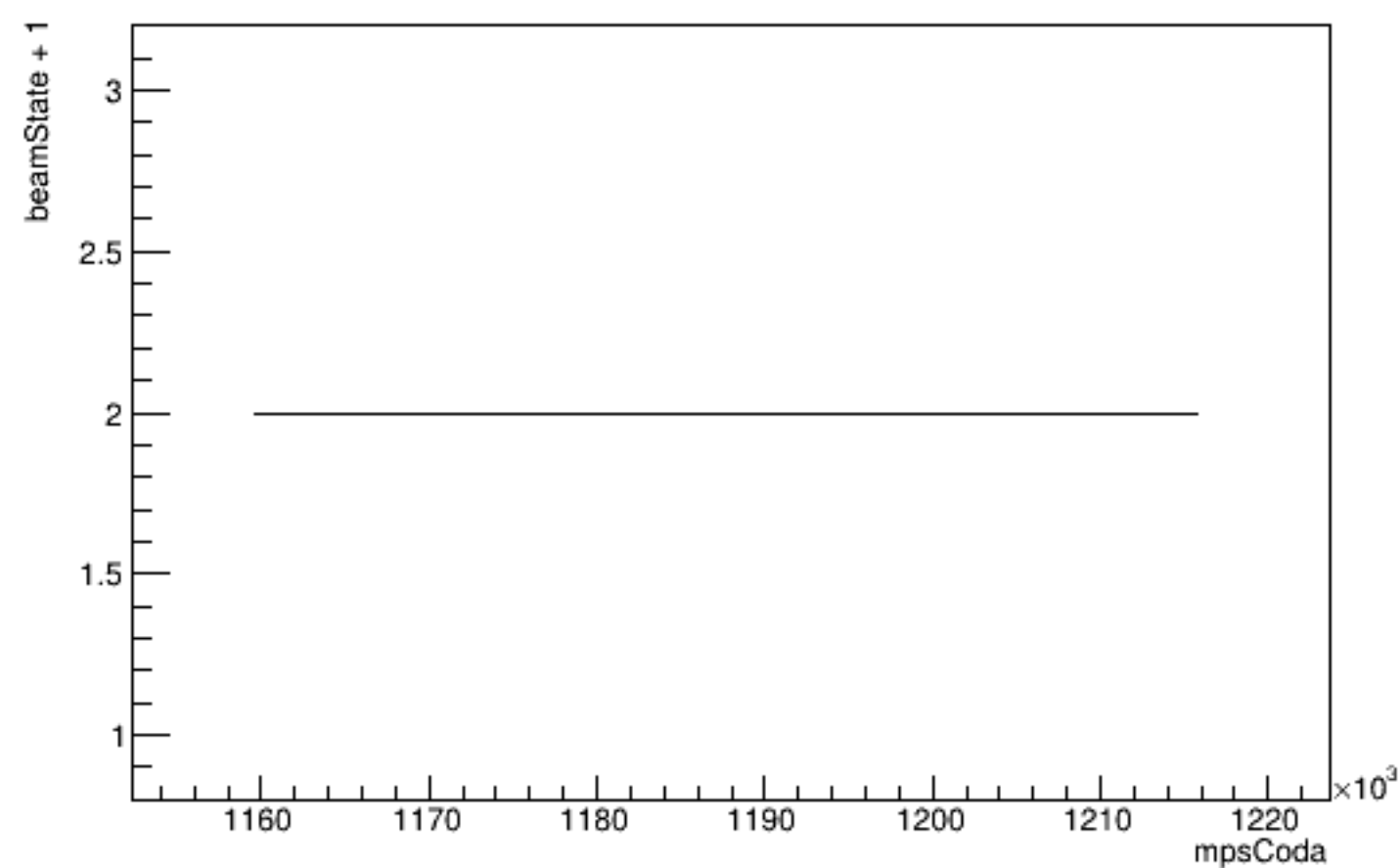
Acc0/NAcc0:mpsCoda (mpsCoda>=1159705 && mpsCoda<=1215680 && beamState==1)



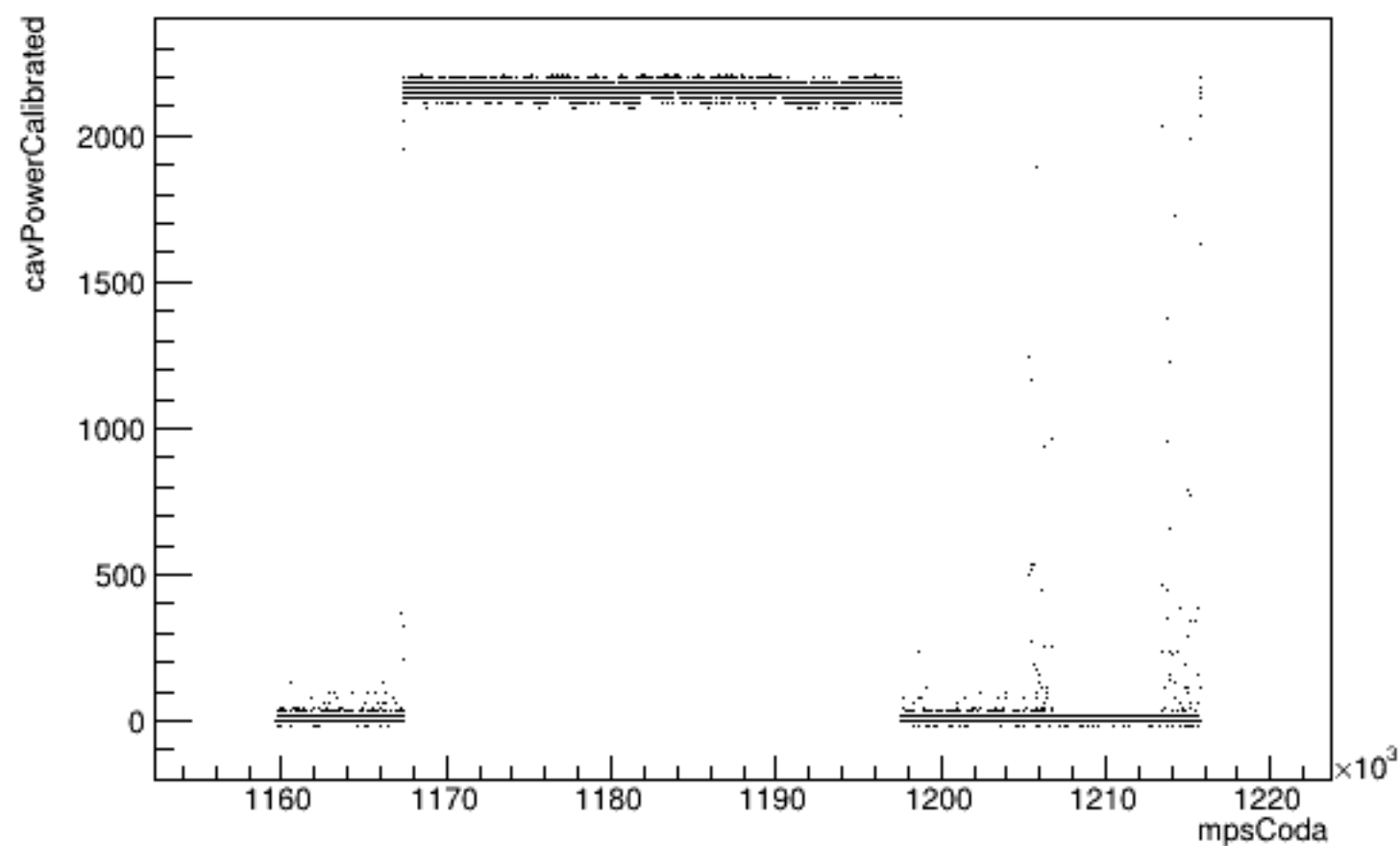
laserState:mpsCoda {mpsCoda&gt;=1159705 &amp;&amp; mpsCoda&lt;=1215680}



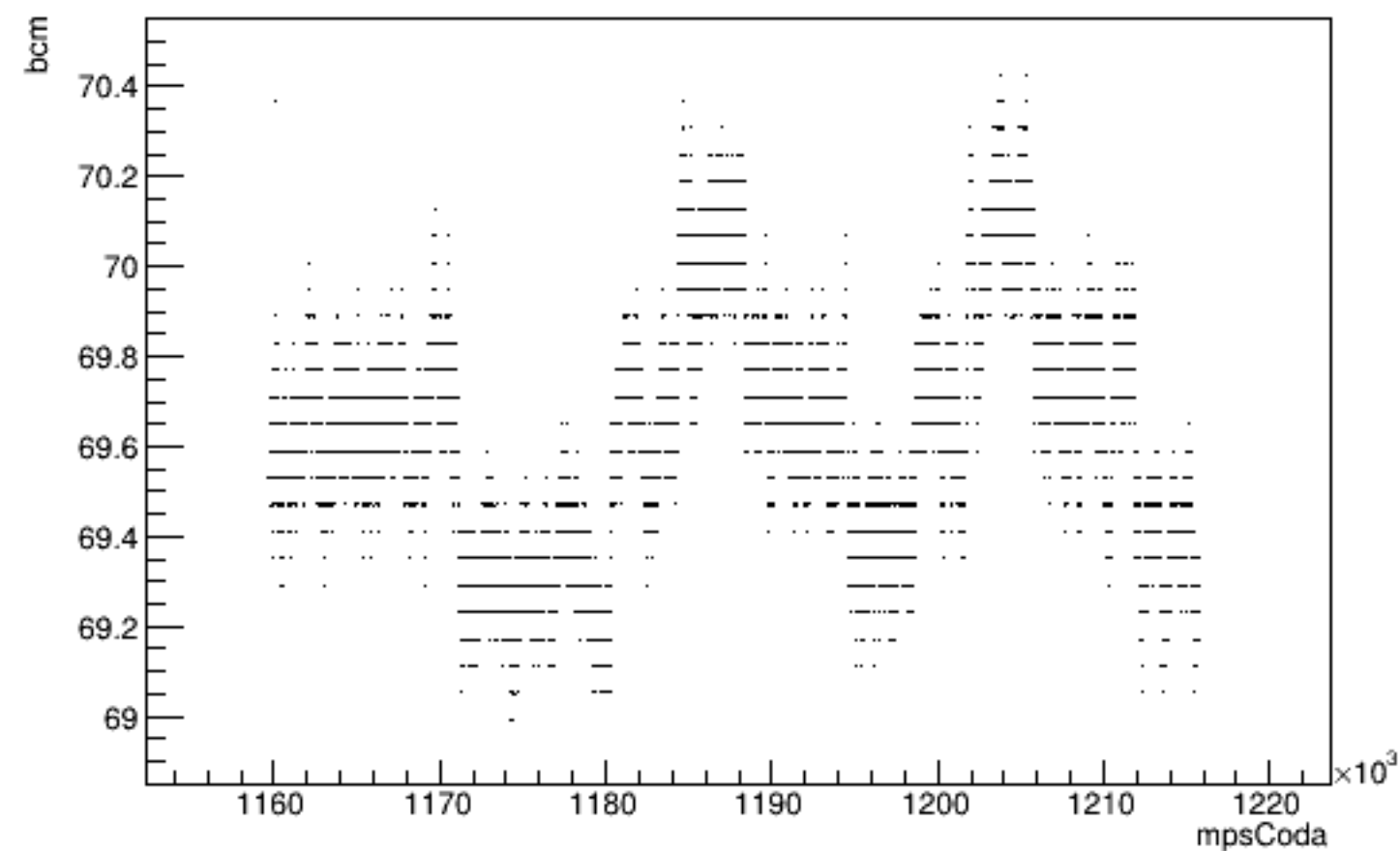
beamState + 1:mpsCoda {mpsCoda&gt;=1159705 &amp;&amp; mpsCoda&lt;=1215680}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1159705 &amp;&amp; mpsCoda&lt;=1215680}



bcm:mpsCoda {mpsCoda&gt;=1159705 &amp;&amp; mpsCoda&lt;=1215680}



## Cycle 28, Diffs

Entries: 2135

Mean: 0.0071 +/- 0.0065

Std Dev: 0.3013 +/- 0.0046

Entries: 3700

Mean: 0.0755 +/- 0.0056

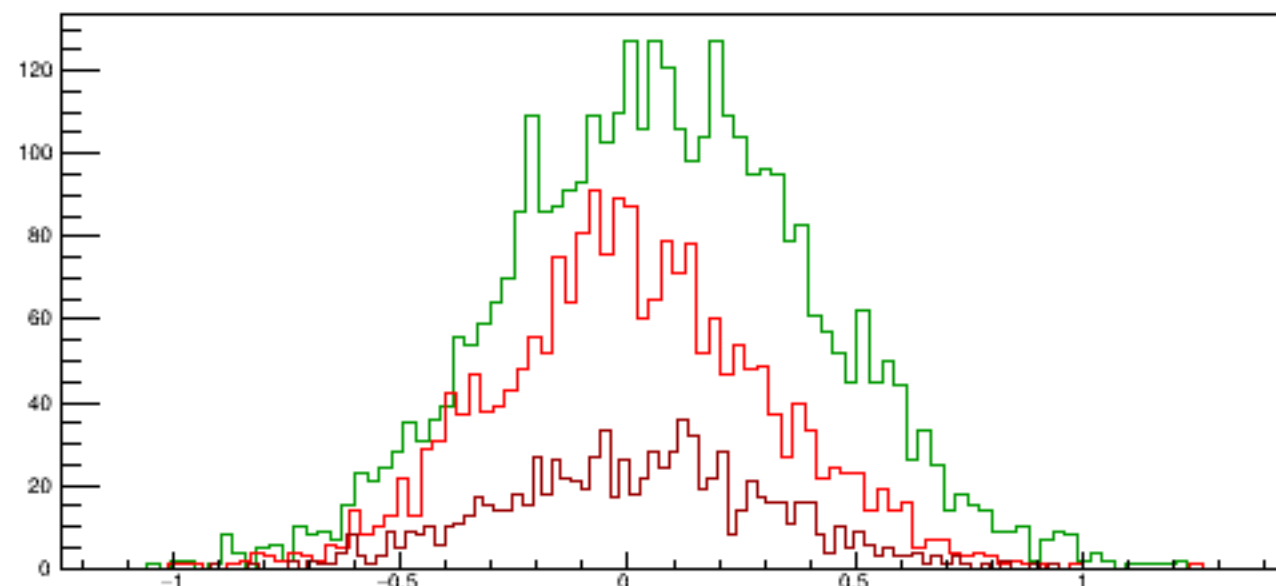
Std Dev: 0.3434 +/- 0.0040

Entries: 903

Mean: 0.0132 +/- 0.0099

Std Dev: 0.2960 +/- 0.0070

Run 4413 quartetwise, Diffs



## Cycle 28, Sums

Entries: 2135

Mean: 13.8040 +/- 0.0076

Std Dev: 0.3533 +/- 0.0054

Entries: 3700

Mean: 18.9208 +/- 0.0062

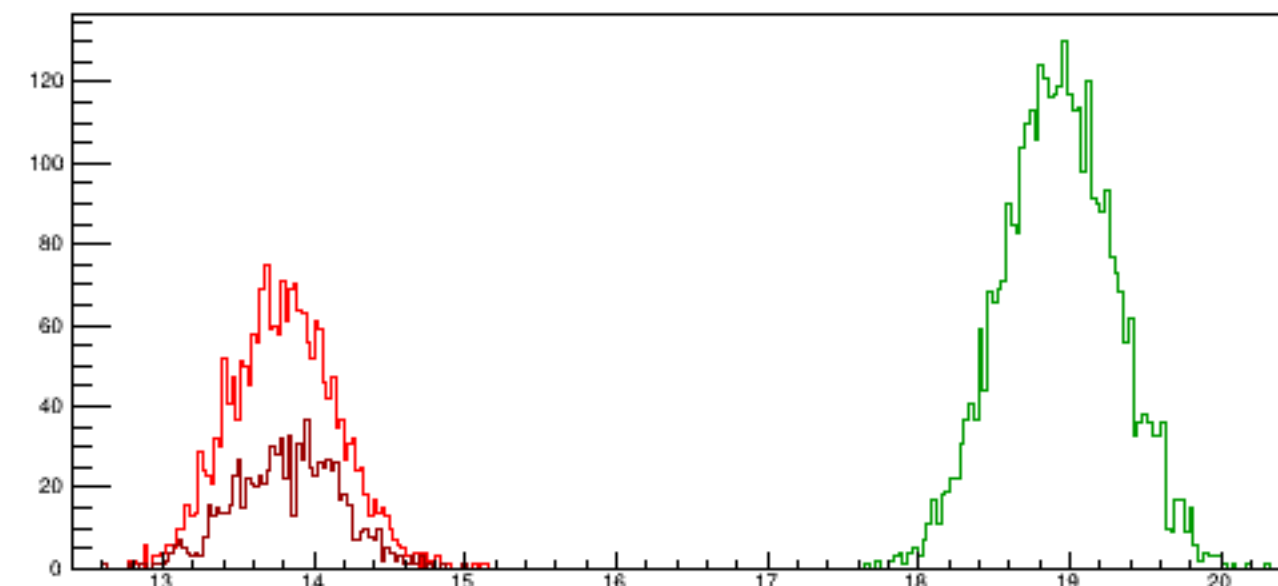
Std Dev: 0.3777 +/- 0.0044

Entries: 903

Mean: 13.8212 +/- 0.0116

Std Dev: 0.3485 +/- 0.0082

Run 4413 quartetwise, Sums



## Cycle 28, Asyms

Entries: 2135

Mean: 0.0014 +/- 0.0013

Std Dev: 0.0590 +/- 0.0009

Entries: 3700

Mean: 0.0149 +/- 0.0011

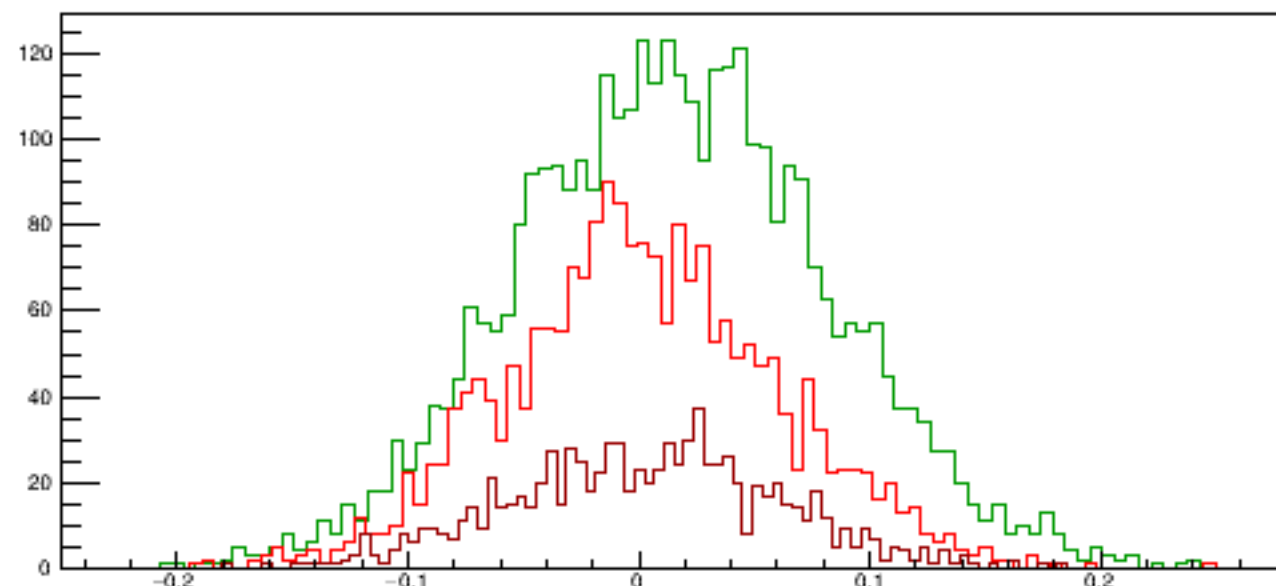
Std Dev: 0.0673 +/- 0.0008

Entries: 903

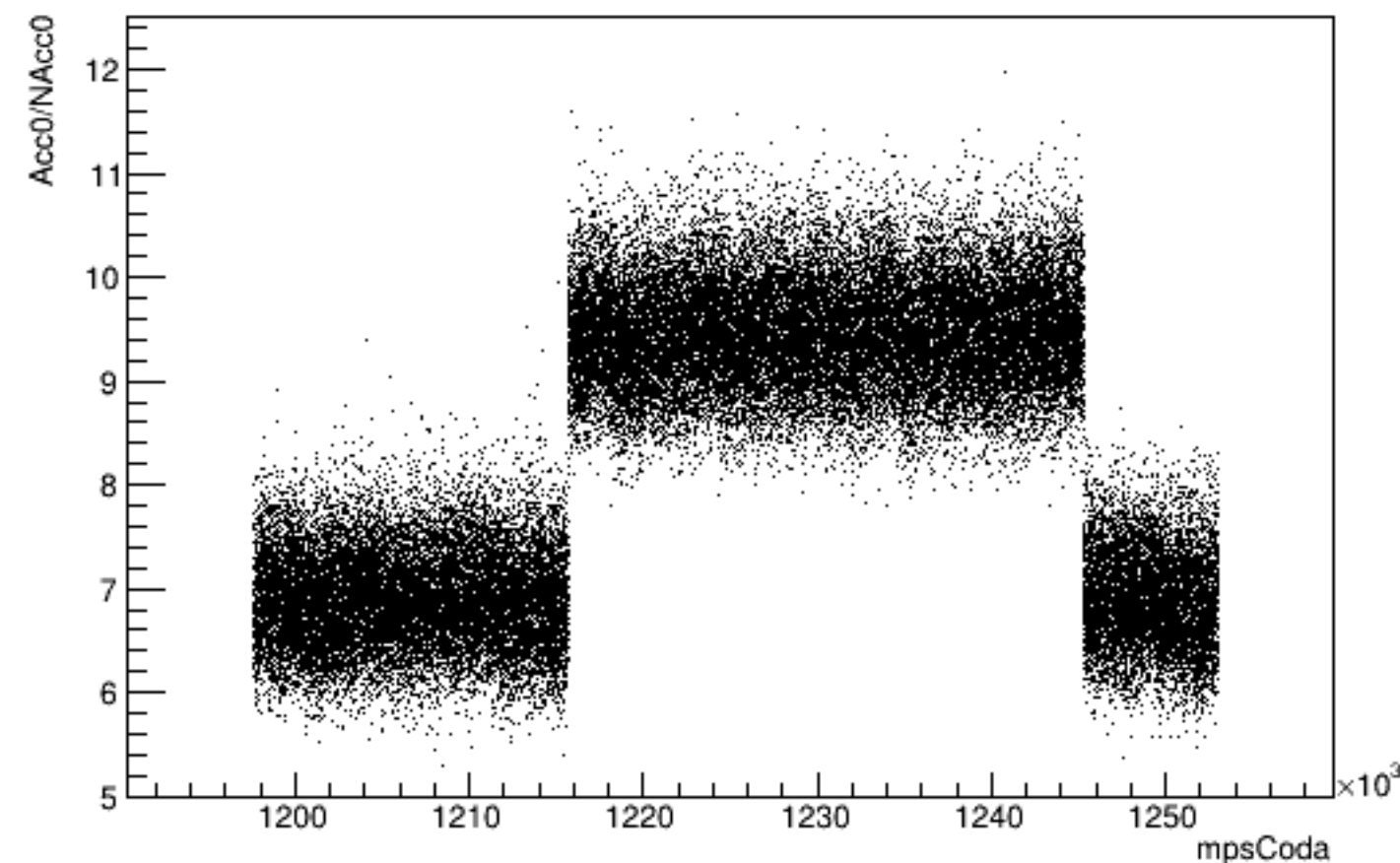
Mean: 0.0026 +/- 0.0019

Std Dev: 0.0579 +/- 0.0014

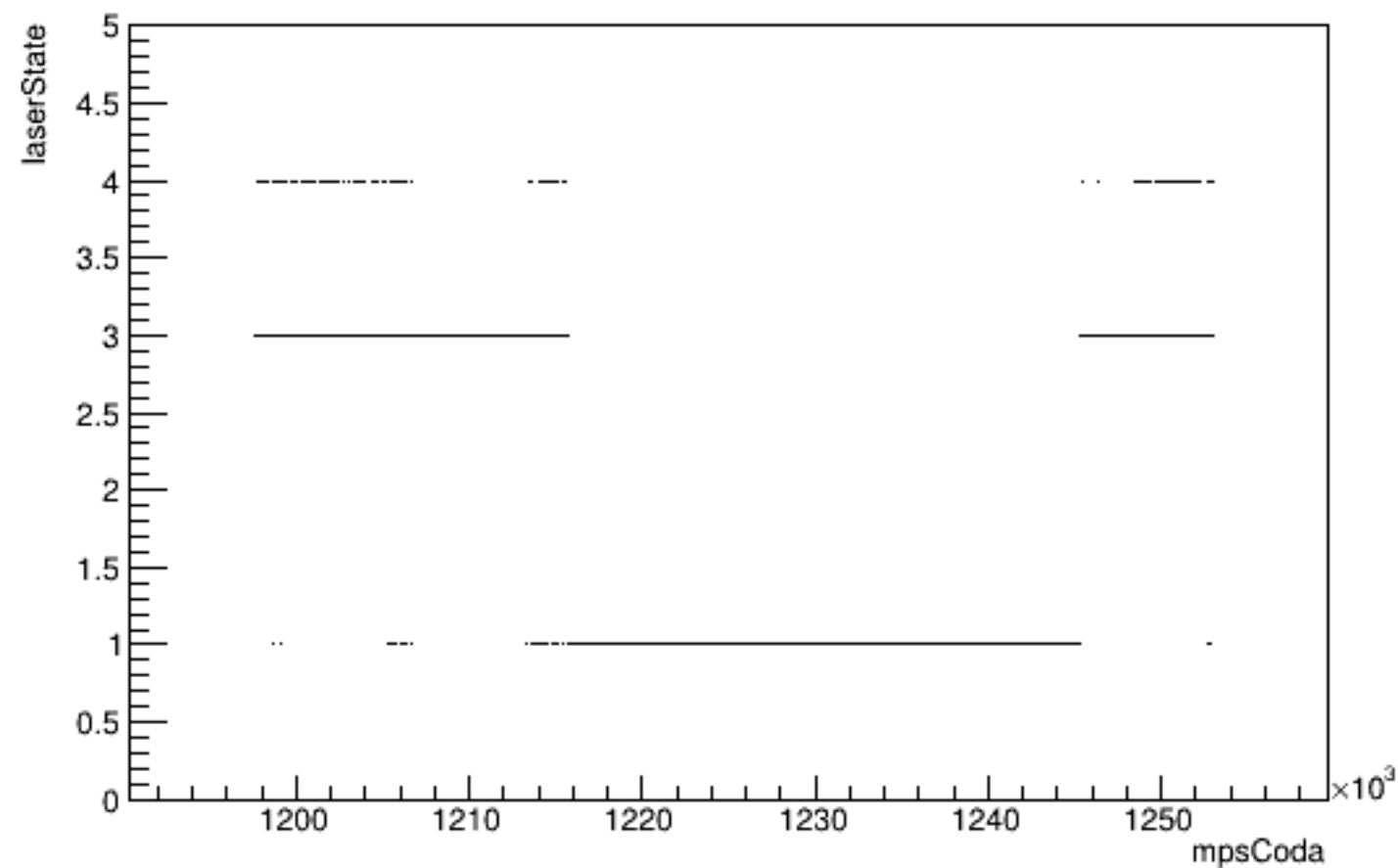
Run 4413 quartetwise, Asyms



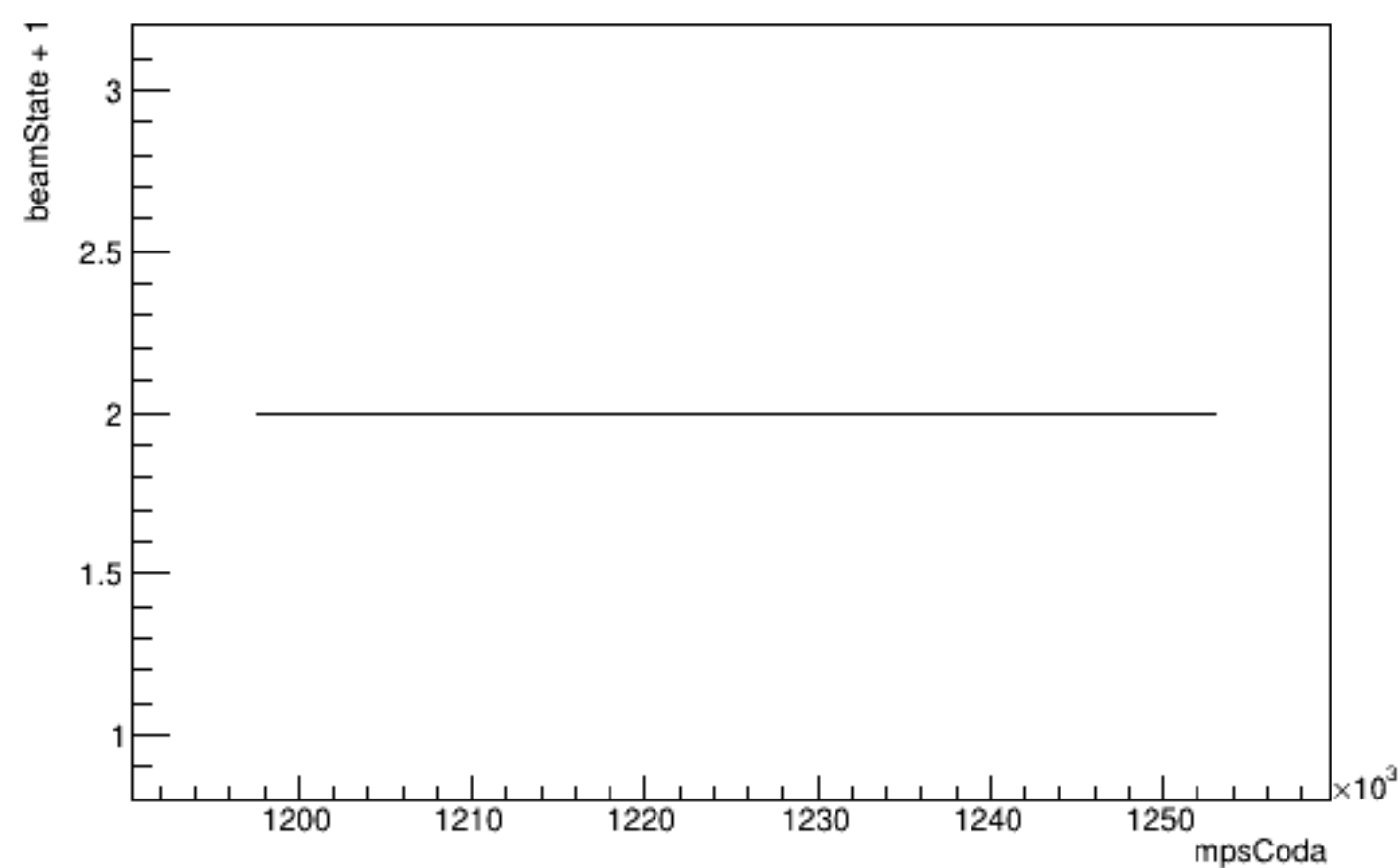
Acc0/NAcc0:mpsCoda (mpsCoda>=1197641 && mpsCoda<=1252984 && beamState==1)



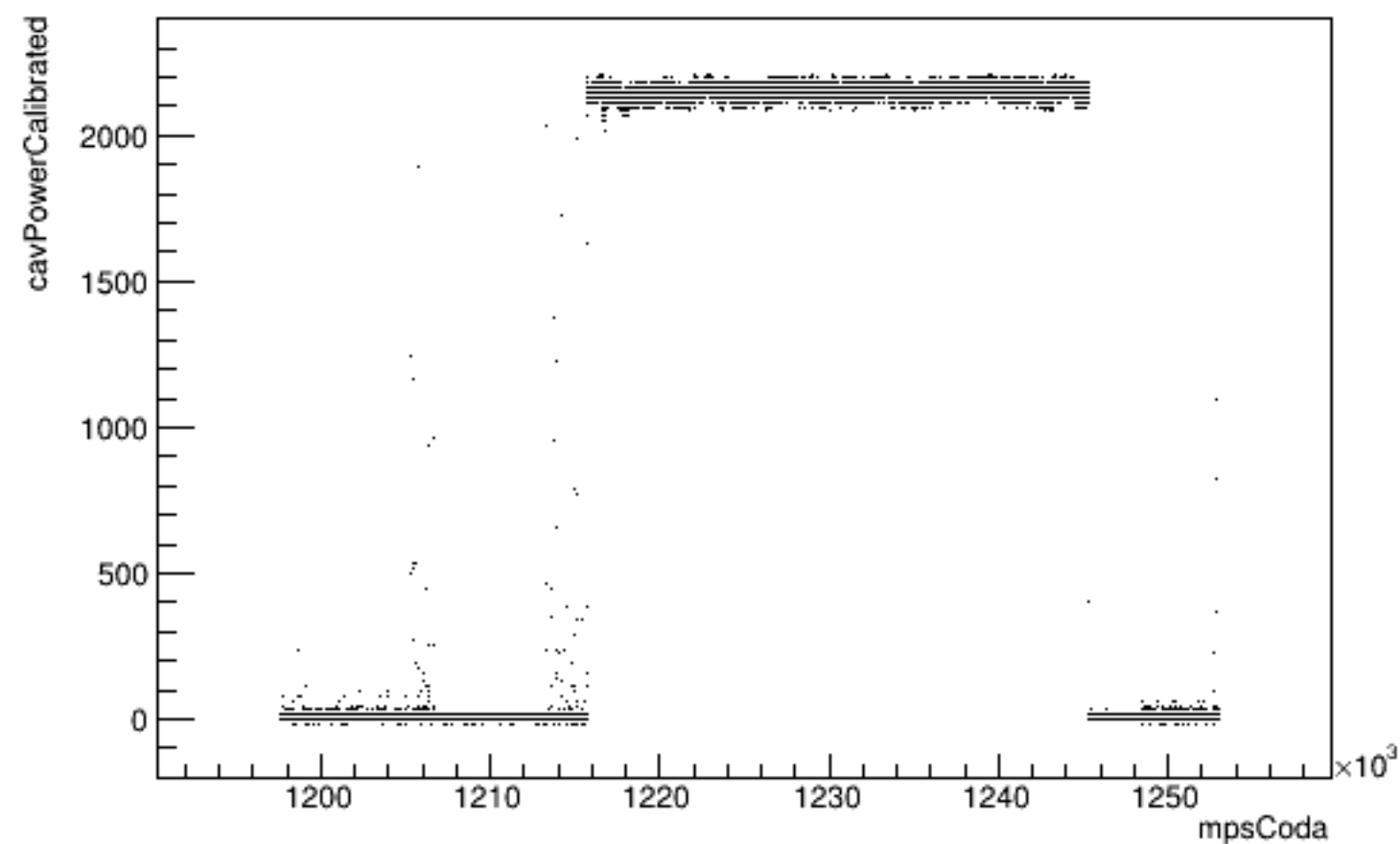
laserState:mpsCoda {mpsCoda&gt;=1197641 &amp;&amp; mpsCoda&lt;=1252984}



beamState + 1:mpsCoda {mpsCoda&gt;=1197641 &amp;&amp; mpsCoda&lt;=1252984}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=1197641 &amp;&amp; mpsCoda&lt;=1252984}



bcm:mpsCoda {mpsCoda&gt;=1197641 &amp;&amp; mpsCoda&lt;=1252984}

