

## Cycle 1, Diffs

Entries: 1031

Mean: 0.0130 +/- 0.0079

Std Dev: 0.2548 +/- 0.0056

Entries: 1959

Mean: -0.8879 +/- 0.0107

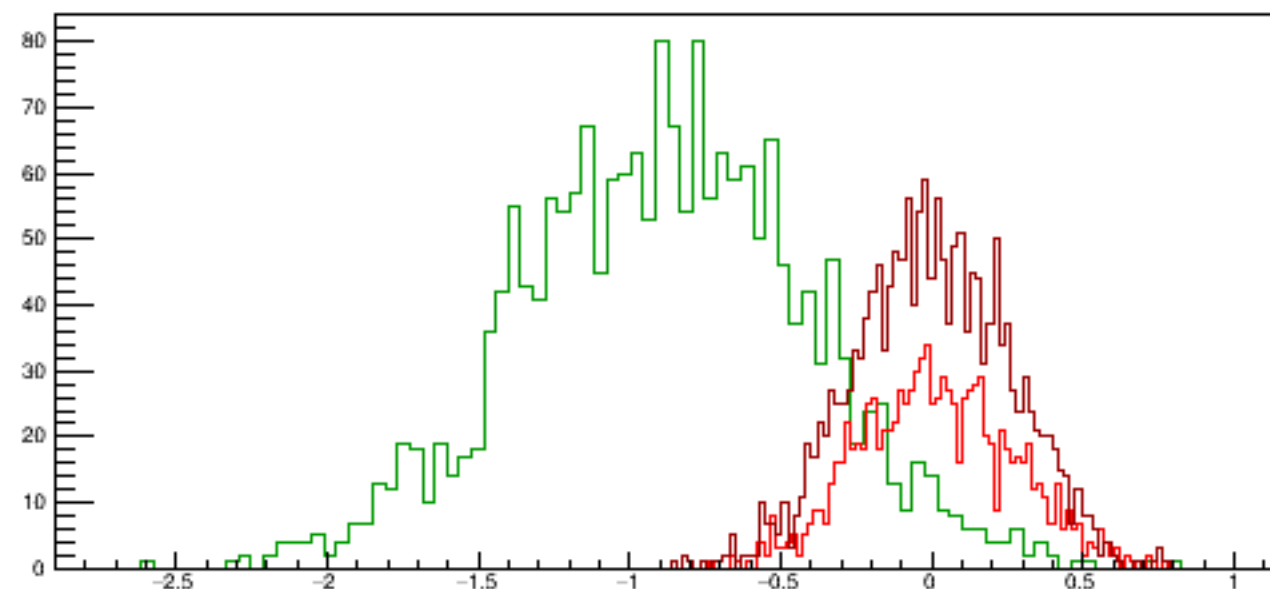
Std Dev: 0.4758 +/- 0.0076

Entries: 1700

Mean: -0.0017 +/- 0.0062

Std Dev: 0.2567 +/- 0.0044

Run 5317 quartetwise, Diffs



## Cycle 1, Sums

Entries: 1031

Mean: 2.9732 +/- 0.0088

Std Dev: 0.2820 +/- 0.0062

Entries: 1959

Mean: 31.0441 +/- 0.0267

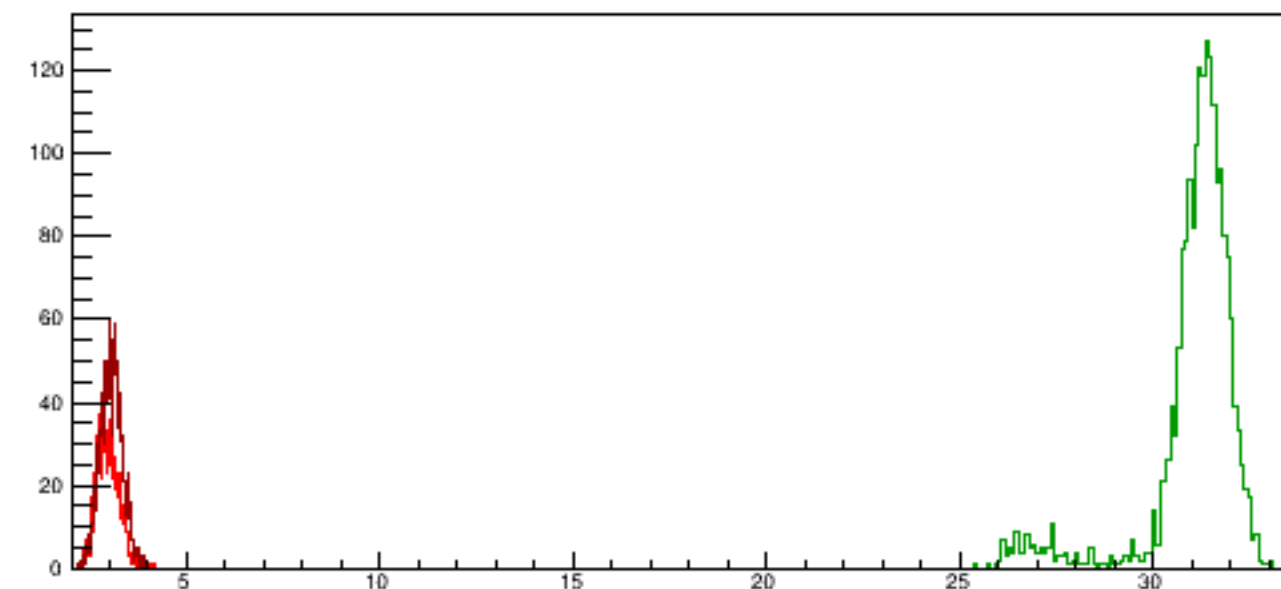
Std Dev: 1.1813 +/- 0.0189

Entries: 1700

Mean: 3.0595 +/- 0.0069

Std Dev: 0.2847 +/- 0.0049

Run 5317 quartetwise, Sums



## Cycle 1, Asyms

Entries: 1031

Mean: 0.0005 +/- 0.0003

Std Dev: 0.0091 +/- 0.0002

Entries: 1959

Mean: -0.0317 +/- 0.0004

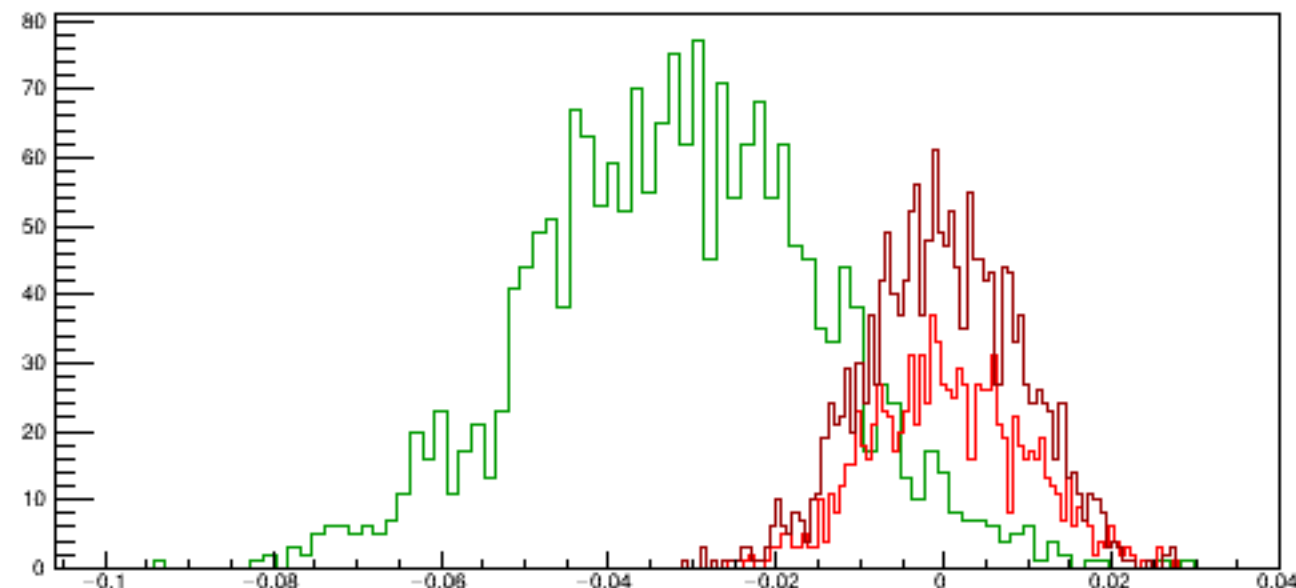
Std Dev: 0.0170 +/- 0.0003

Entries: 1700

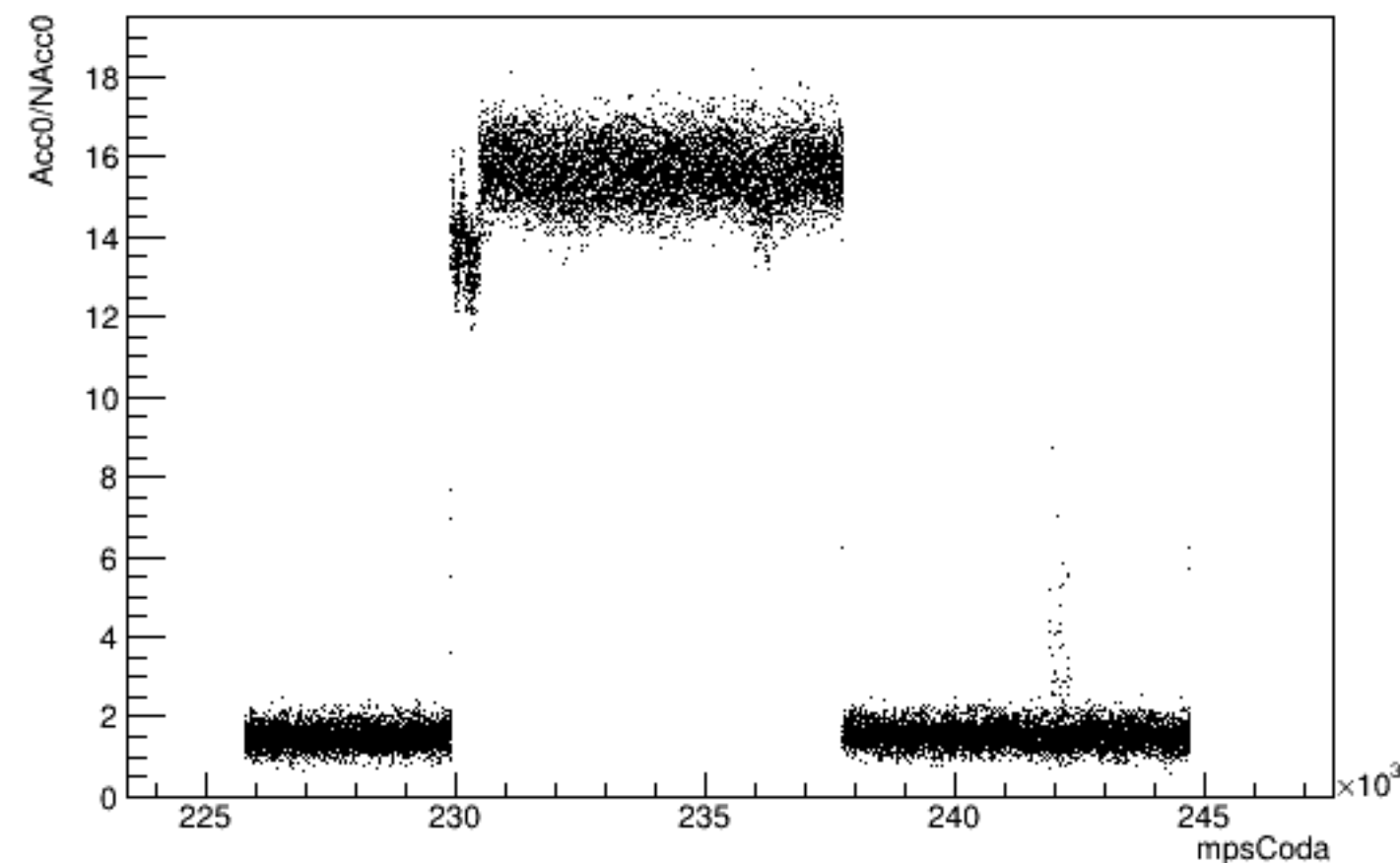
Mean: -0.0001 +/- 0.0002

Std Dev: 0.0092 +/- 0.0002

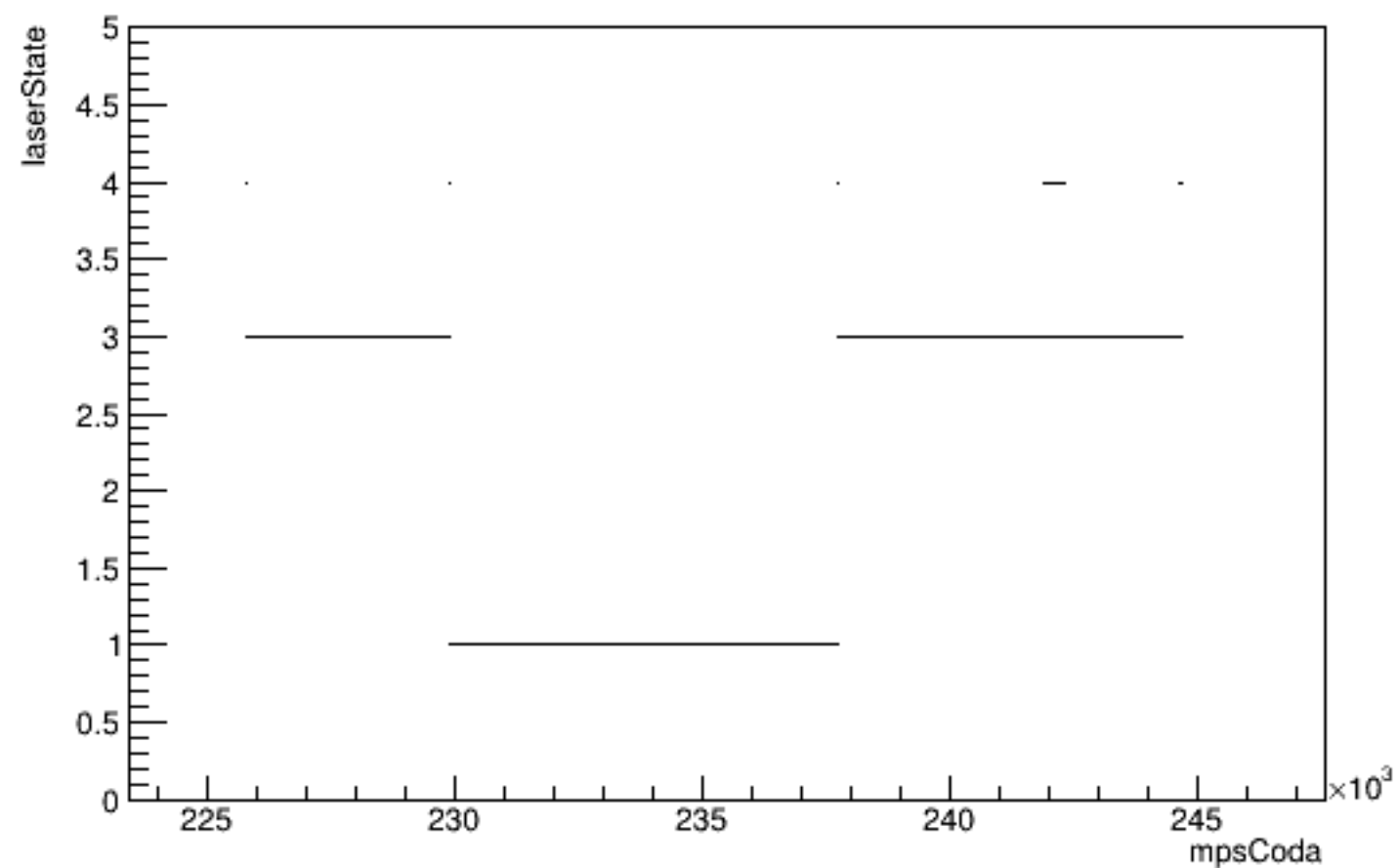
Run 5317 quartetwise, Asyms



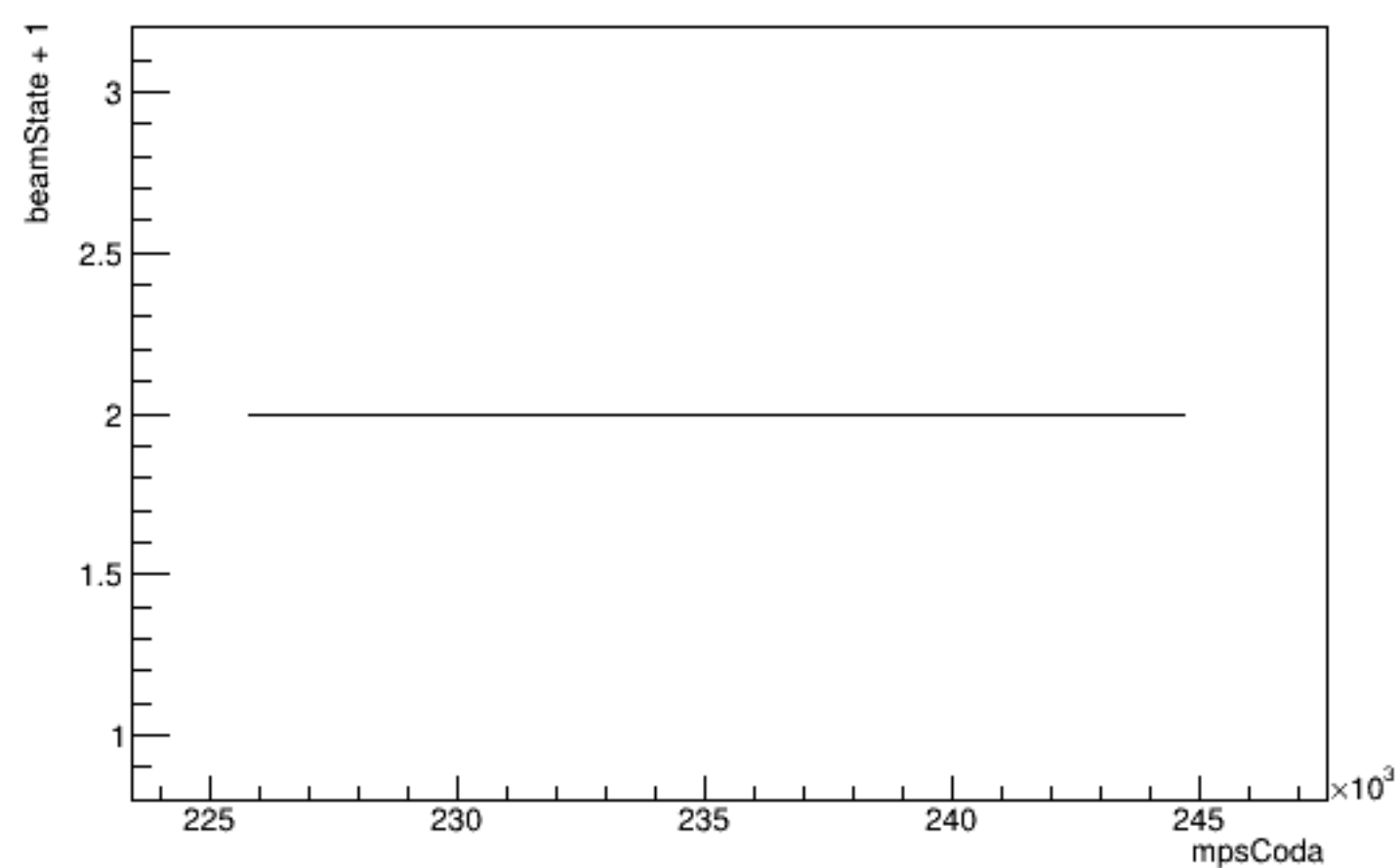
Acc0/NAcc0:mpsCoda (mpsCoda>=225780 && mpsCoda<=244699 && beamState==1)



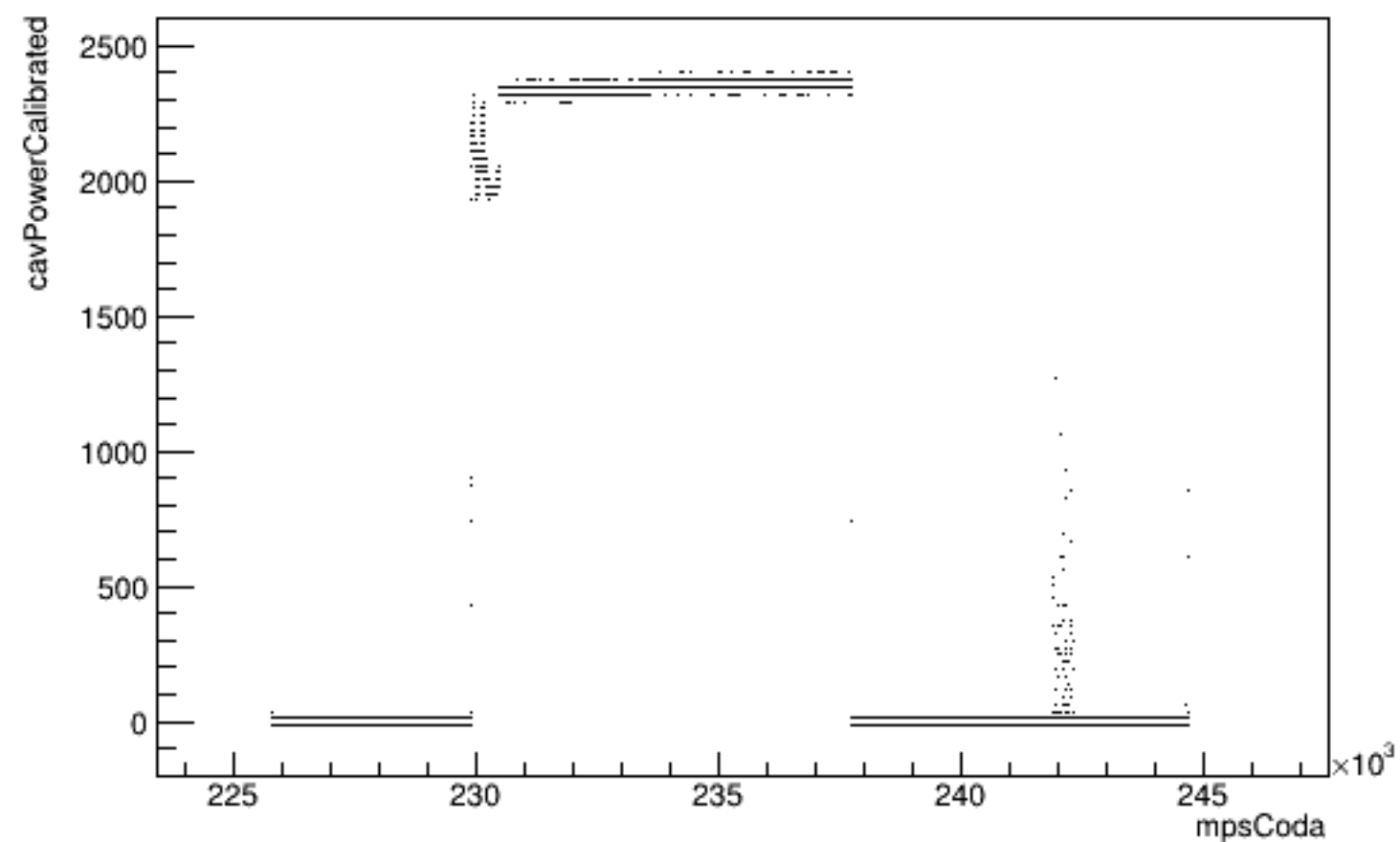
laserState:mpsCoda {mpsCoda&gt;=225780 &amp;&amp; mpsCoda&lt;=244699}



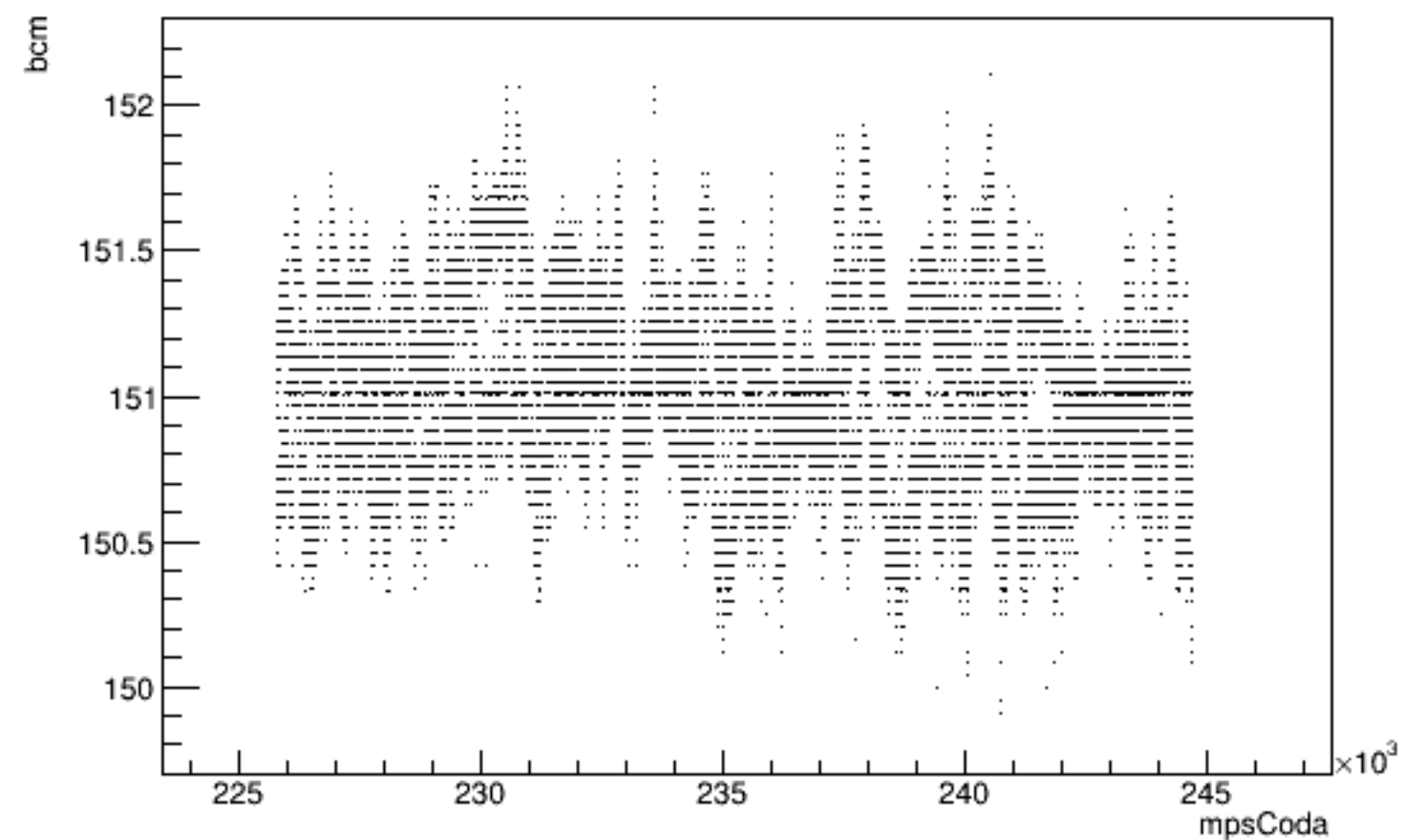
beamState + 1:mpsCoda {mpsCoda&gt;=225780 &amp;&amp; mpsCoda&lt;=244699}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=225780 &amp;&amp; mpsCoda&lt;=244699}



bcm:mpsCoda {mpsCoda&gt;=225780 &amp;&amp; mpsCoda&lt;=244699}



## Cycle 2, Diffs

Entries: 1700

Mean: -0.0017 +/- 0.0062

Std Dev: 0.2567 +/- 0.0044

Entries: 1985

Mean: -0.8497 +/- 0.0118

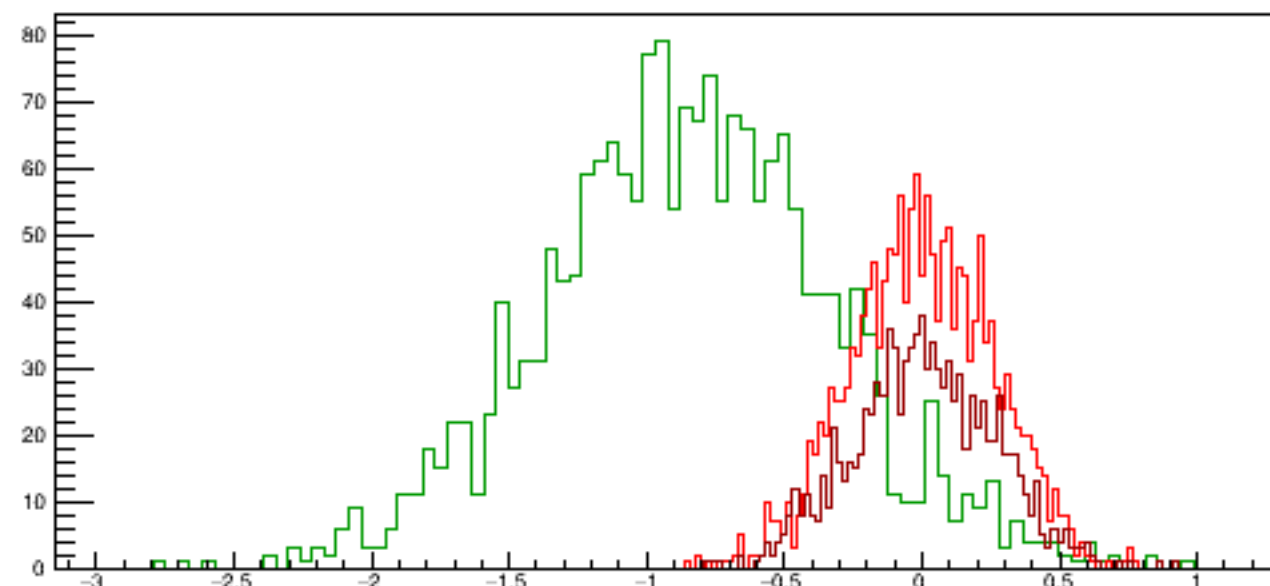
Std Dev: 0.5255 +/- 0.0083

Entries: 1029

Mean: 0.0065 +/- 0.0080

Std Dev: 0.2560 +/- 0.0056

Run 5317 quartetwise, Diffs



## Cycle 2, Sums

Entries: 1700

Mean: 3.0595 +/- 0.0069

Std Dev: 0.2847 +/- 0.0049

Entries: 1985

Mean: 29.7503 +/- 0.0395

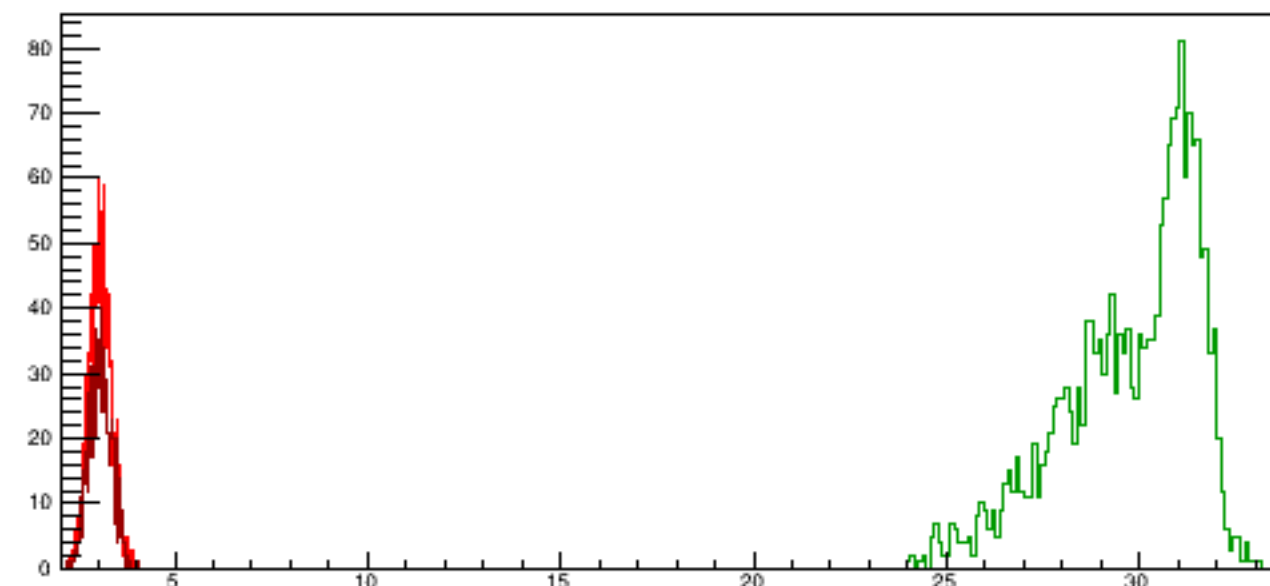
Std Dev: 1.7595 +/- 0.0279

Entries: 1029

Mean: 3.0696 +/- 0.0091

Std Dev: 0.2917 +/- 0.0064

Run 5317 quartetwise, Sums



## Cycle 2, Asyms

Entries: 1700

Mean: -0.0001 +/- 0.0002

Std Dev: 0.0096 +/- 0.0002

Entries: 1985

Mean: -0.0318 +/- 0.0004

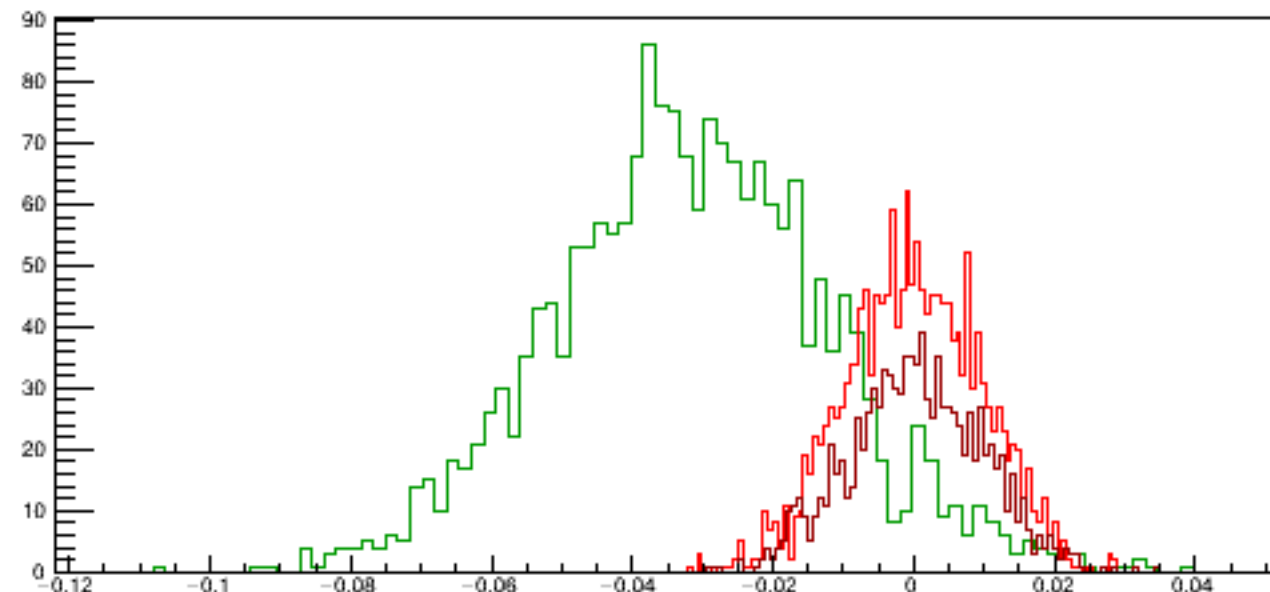
Std Dev: 0.0197 +/- 0.0003

Entries: 1029

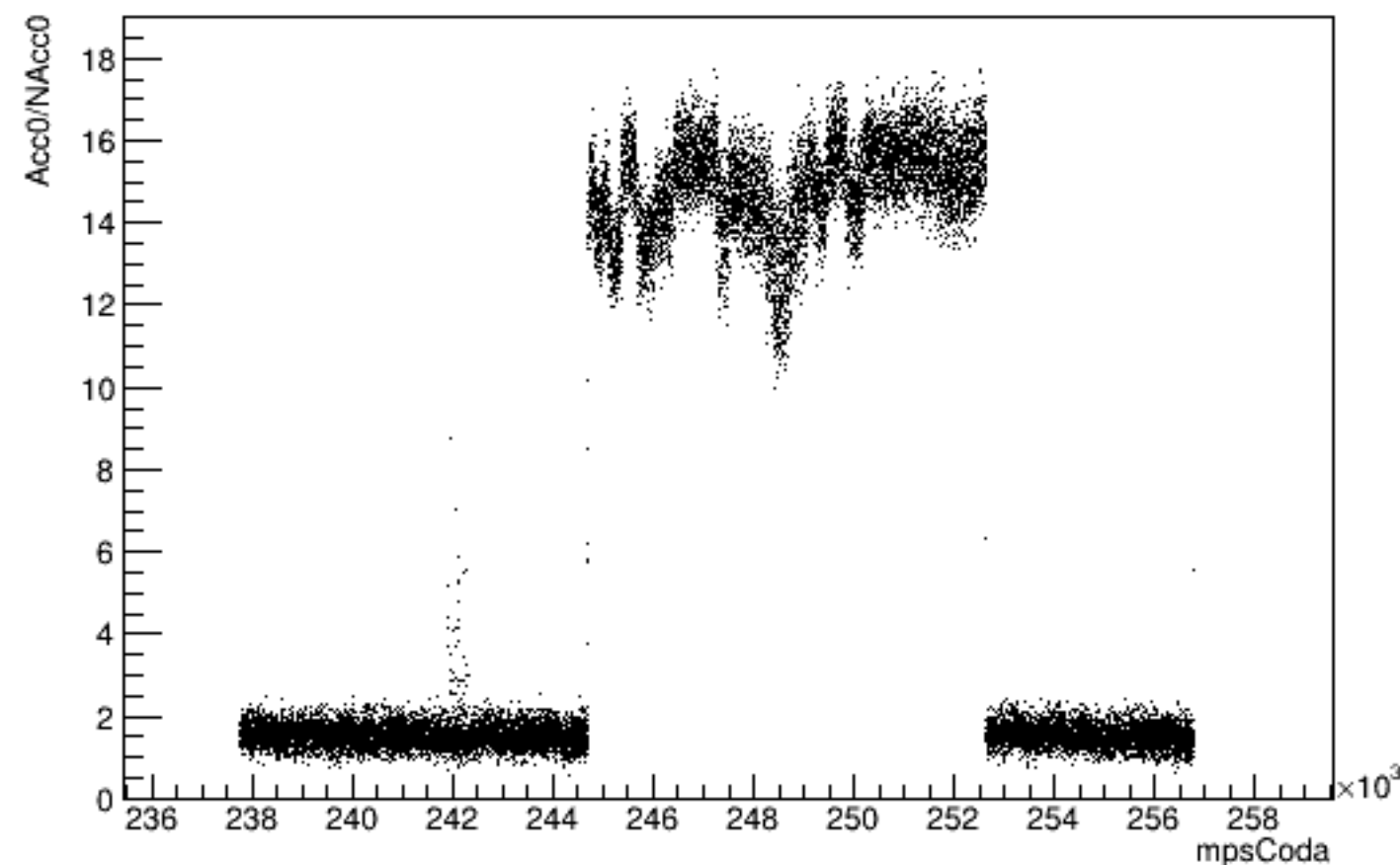
Mean: 0.0002 +/- 0.0003

Std Dev: 0.0096 +/- 0.0002

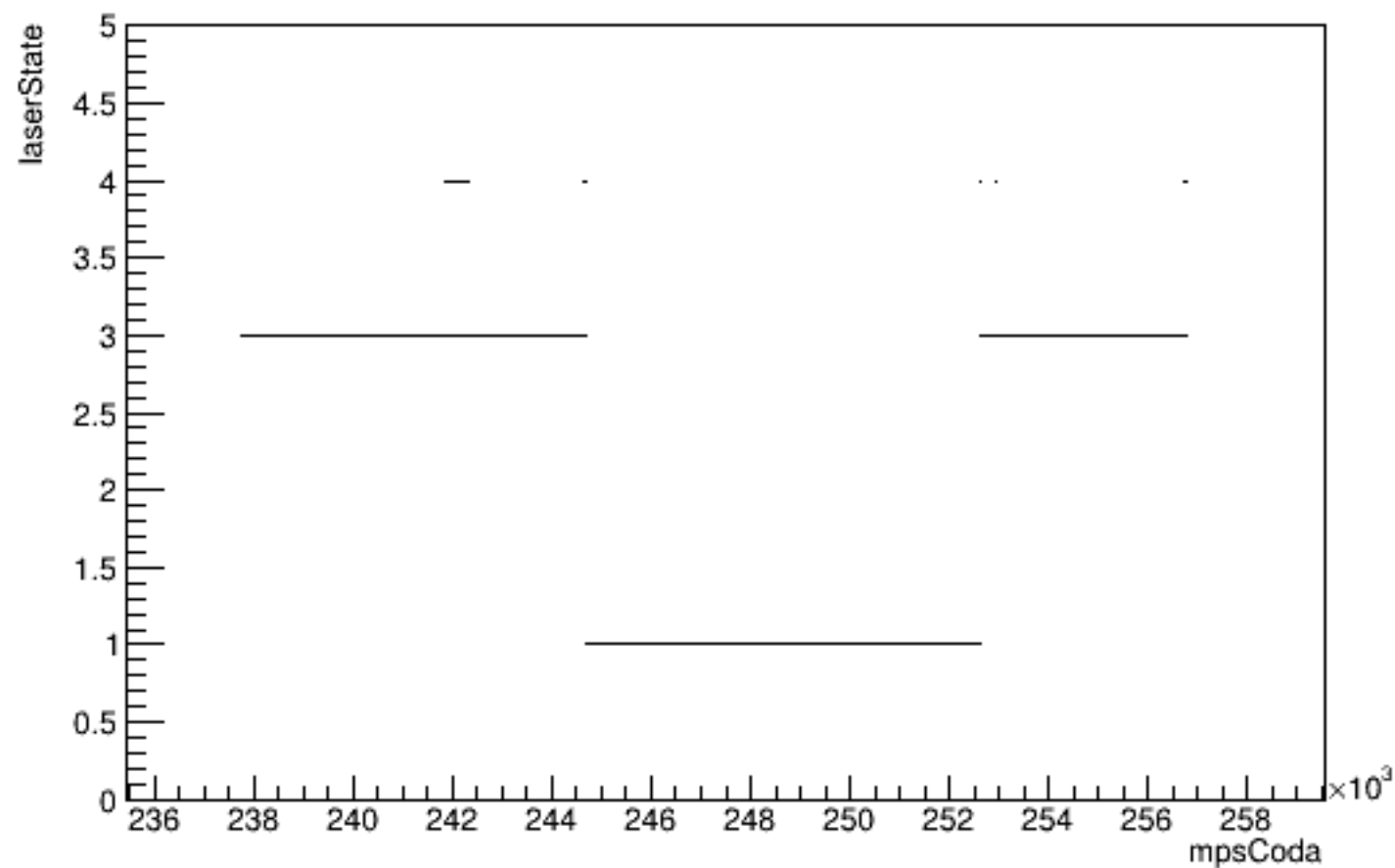
Run 5317 quartetwise, Asyms



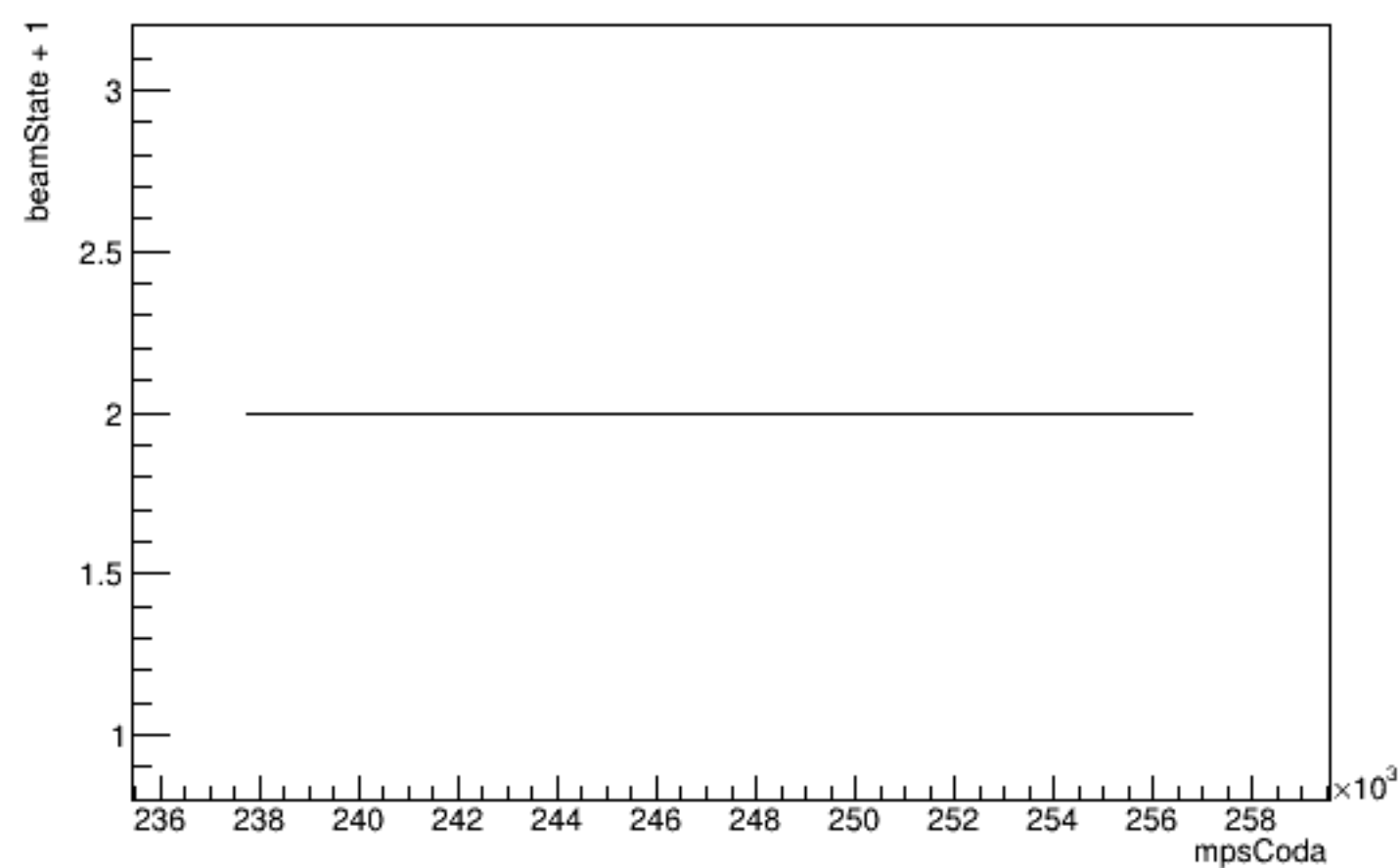
Acc0/NAcc0:mpsCoda (mpsCoda>=237756 && mpsCoda<=256775 && beamState==1)



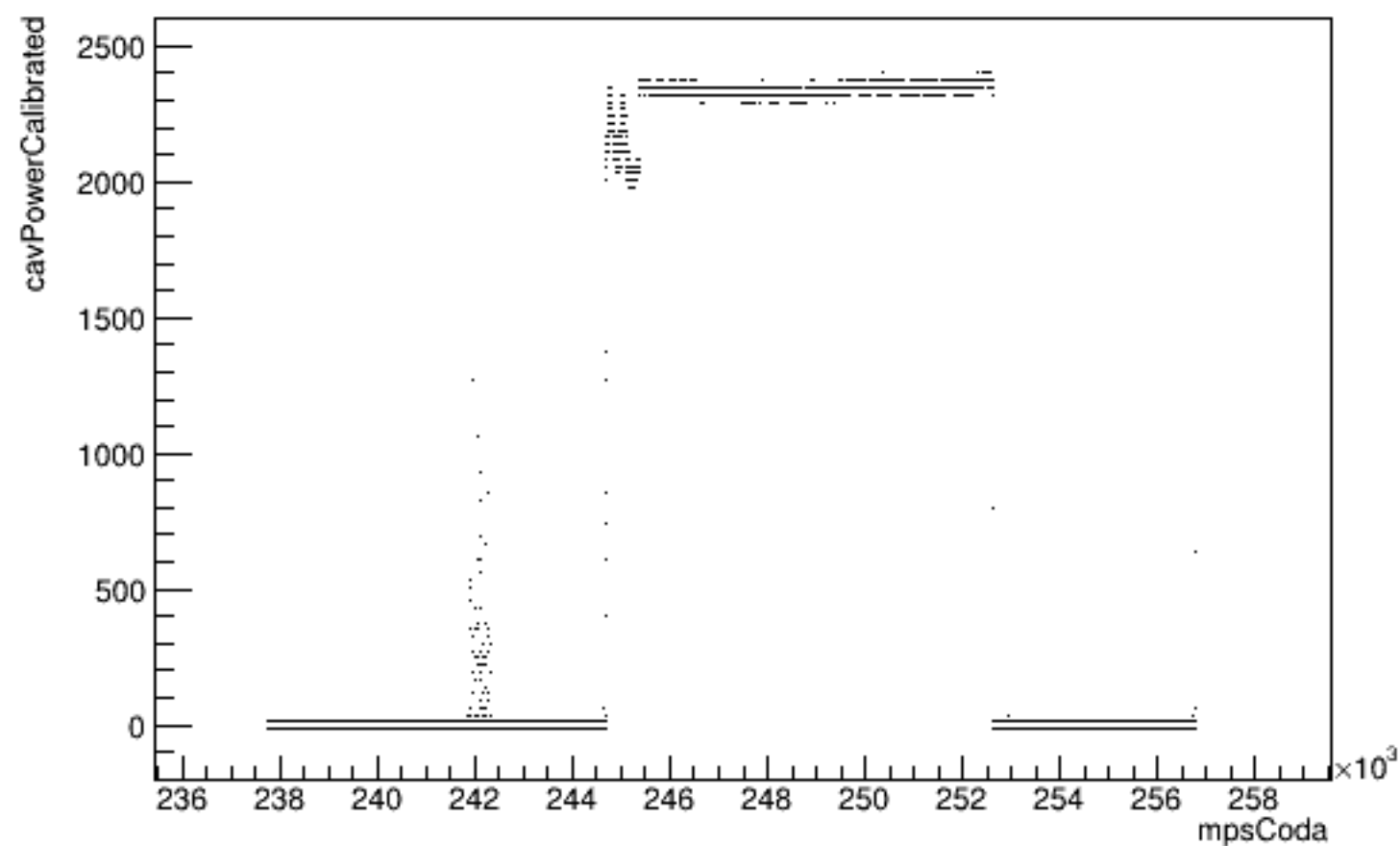
laserState:mpsCoda {mpsCoda&gt;=237756 &amp;&amp; mpsCoda&lt;=256775}



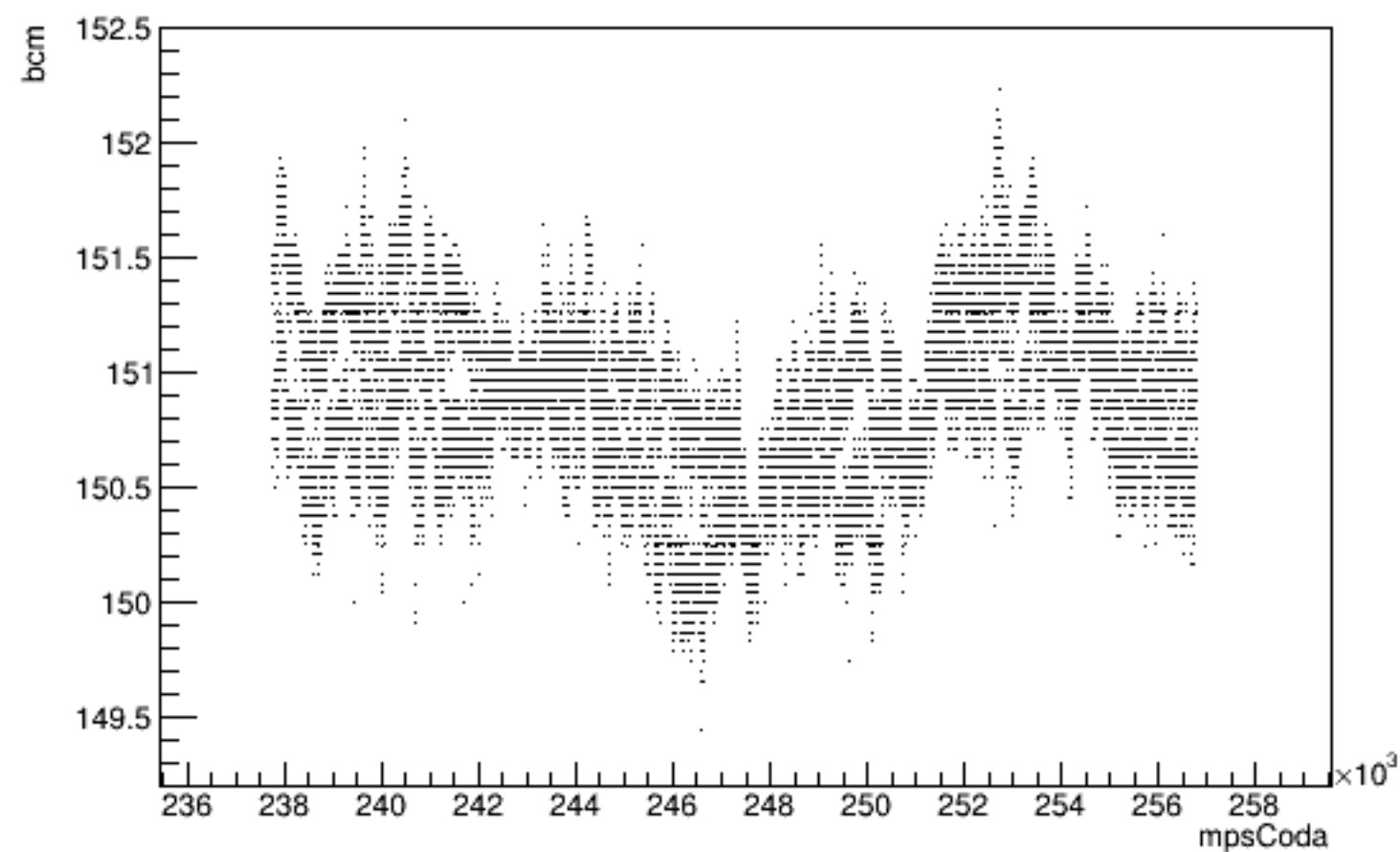
beamState + 1:mpsCoda {mpsCoda&gt;=237756 &amp;&amp; mpsCoda&lt;=256775}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=237756 &amp;&amp; mpsCoda&lt;=256775}



bcm:mpsCoda {mpsCoda&gt;=237756 &amp;&amp; mpsCoda&lt;=256775}



## Cycle 3, Diffs

Entries: 1041

Mean: 0.0143 +/- 0.0077

Std Dev: 0.2484 +/- 0.0054

Entries: 2061

Mean: -0.8655 +/- 0.0104

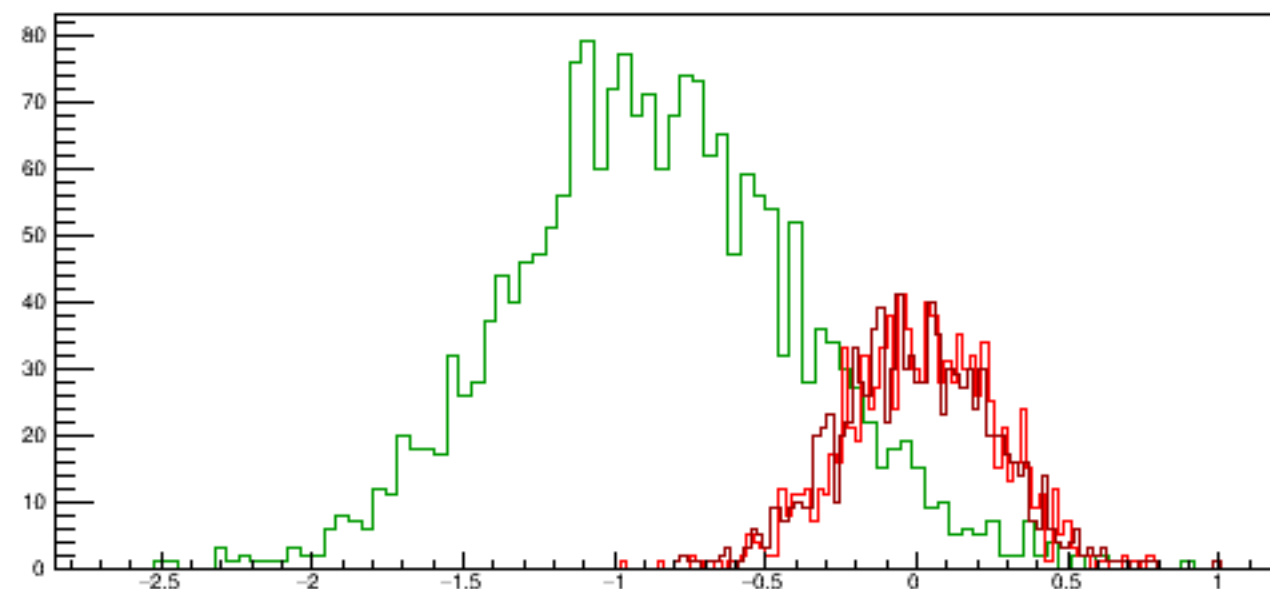
Std Dev: 0.4742 +/- 0.0074

Entries: 1040

Mean: -0.0047 +/- 0.0080

Std Dev: 0.2594 +/- 0.0057

Run 5317 quartetwise, Diffs



## Cycle 3, Sums

Entries: 1041

Mean: 3.0169 +/- 0.0089

Std Dev: 0.2884 +/- 0.0063

Entries: 2061

Mean: 30.6404 +/- 0.0301

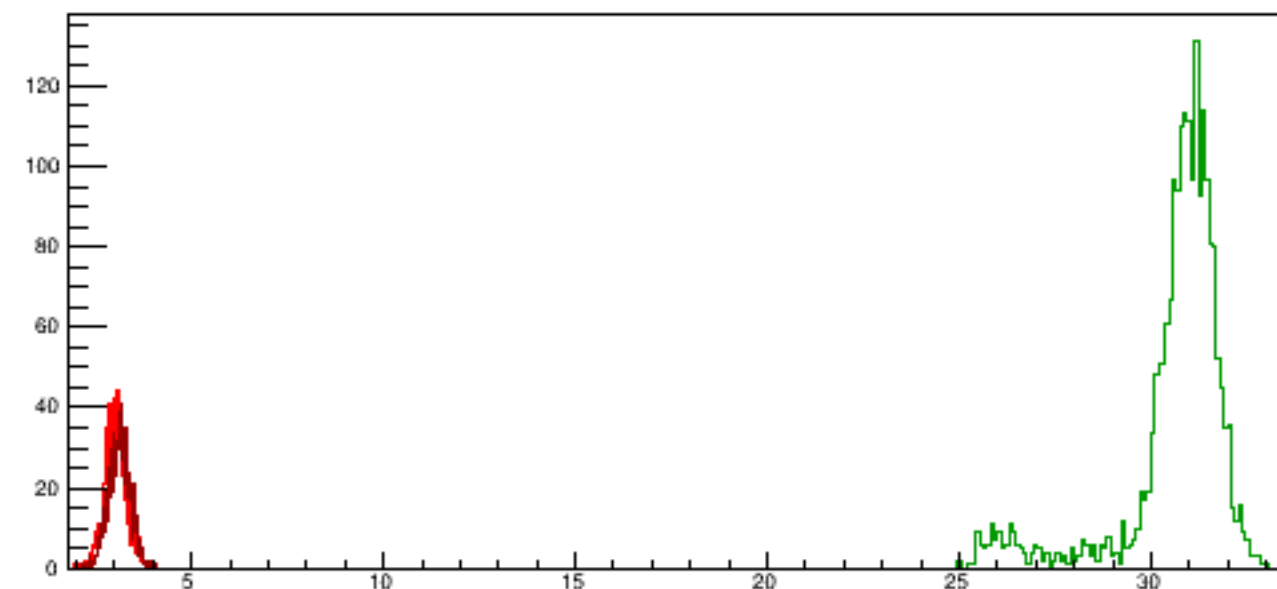
Std Dev: 1.3676 +/- 0.0213

Entries: 1040

Mean: 3.1230 +/- 0.0090

Std Dev: 0.2899 +/- 0.0064

Run 5317 quartetwise, Sums



## Cycle 3, Asyms

Entries: 1041

Mean: 0.0005 +/- 0.0003

Std Dev: 0.0090 +/- 0.0002

Entries: 2061

Mean: -0.0314 +/- 0.0004

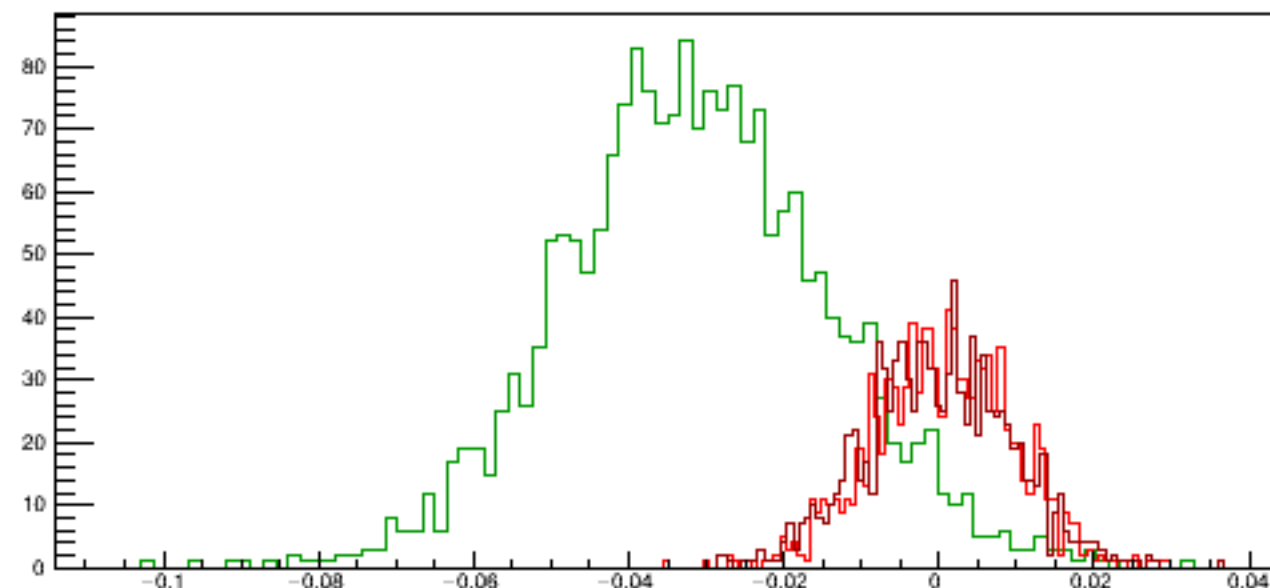
Std Dev: 0.0173 +/- 0.0003

Entries: 1040

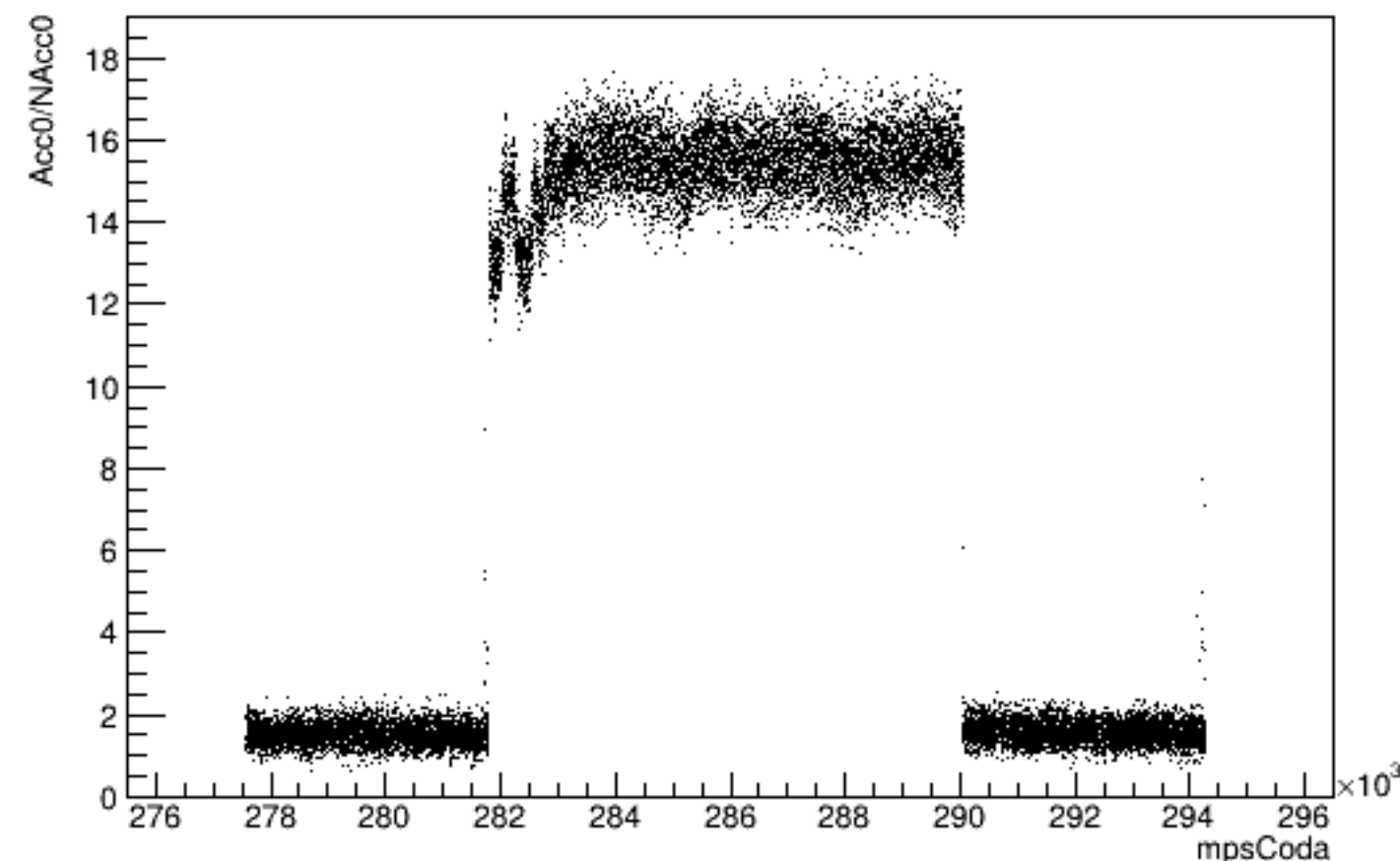
Mean: -0.0002 +/- 0.0003

Std Dev: 0.0094 +/- 0.0002

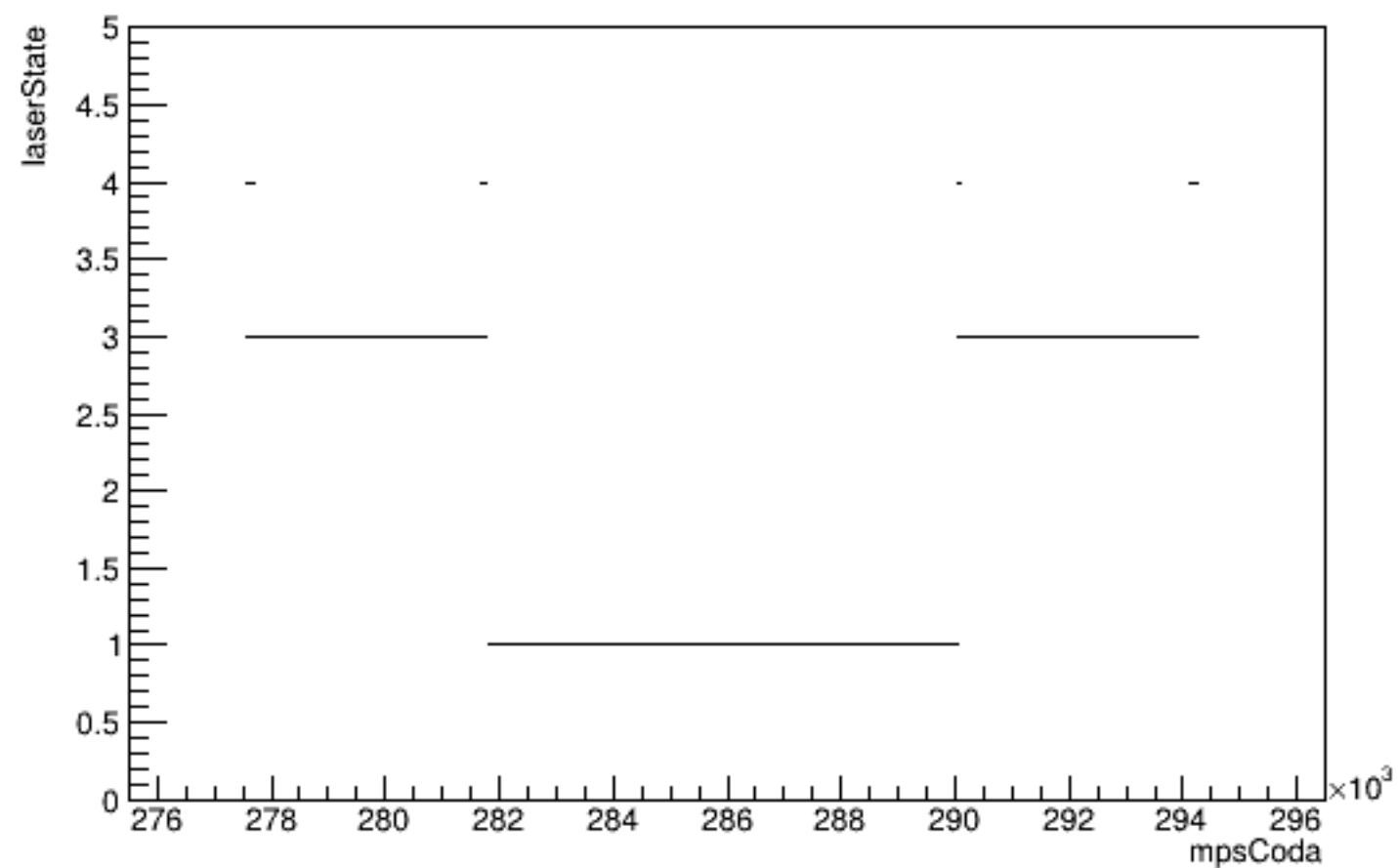
Run 5317 quartetwise, Asyms



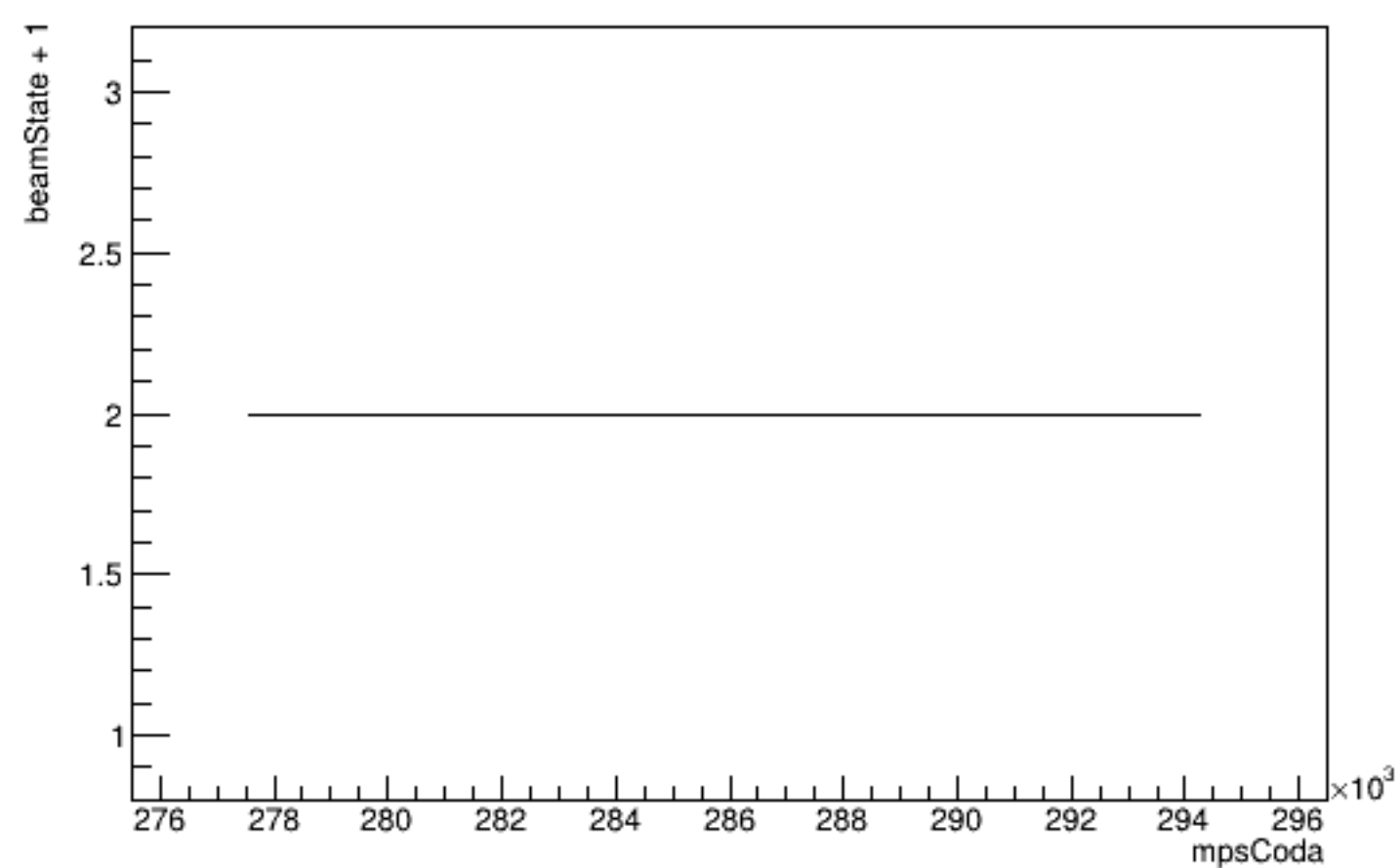
Acc0/NAcc0:mpsCoda (mpsCoda>=277580 && mpsCoda<=294259 && beamState==1)



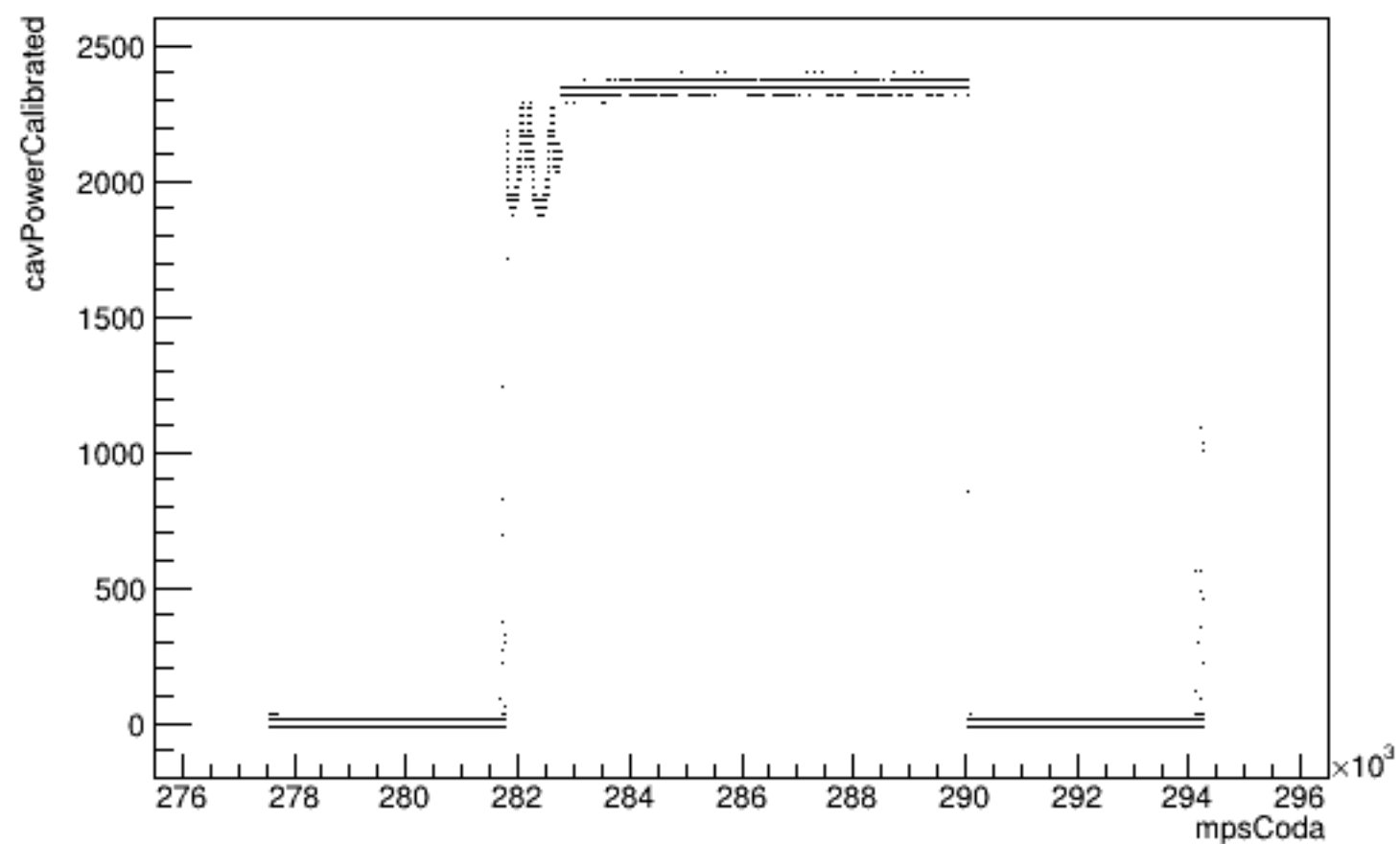
laserState:mpsCoda {mpsCoda&gt;=277580 &amp;&amp; mpsCoda&lt;=294259}



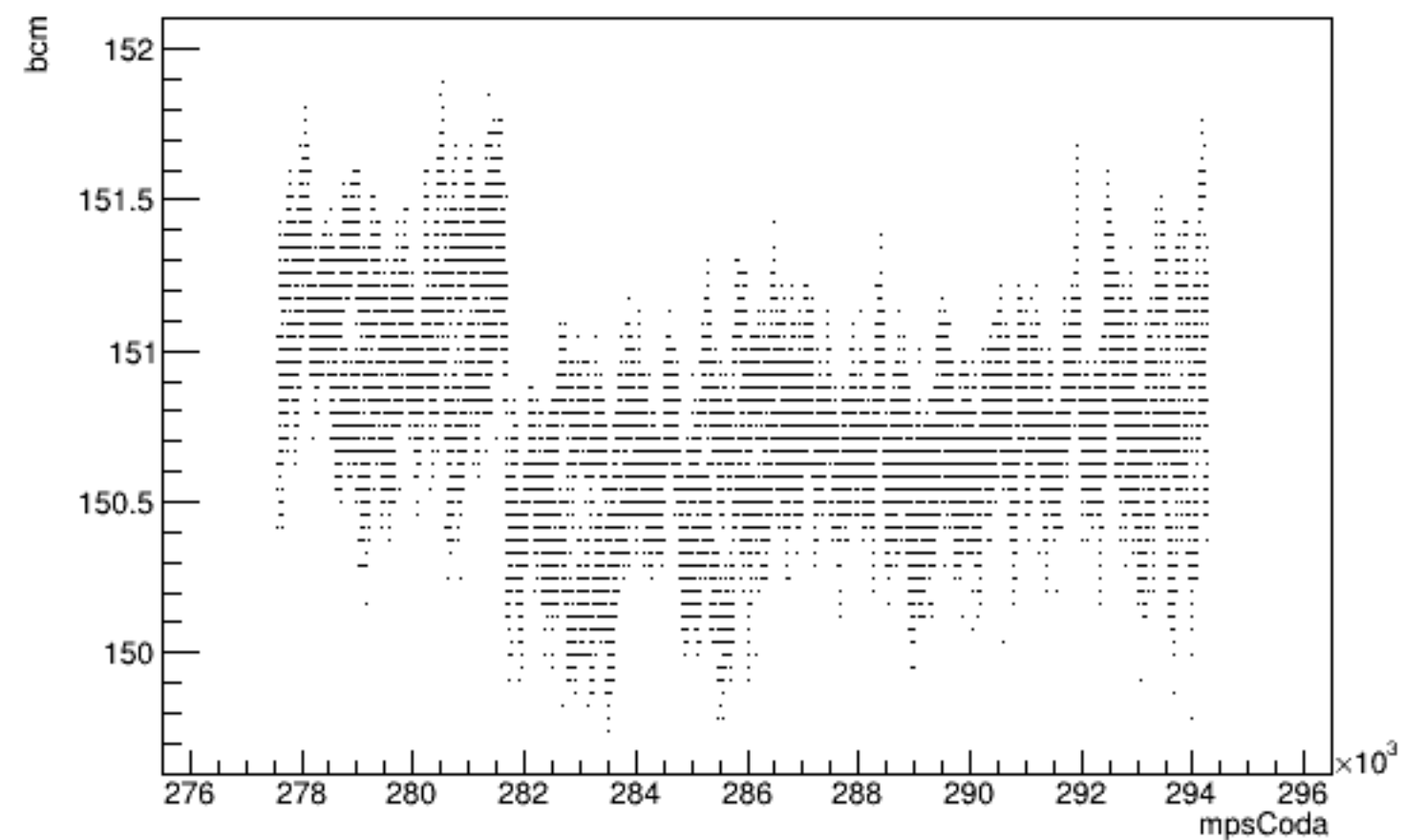
beamState + 1:mpsCoda {mpsCoda&gt;=277580 &amp;&amp; mpsCoda&lt;=294259}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=277580 &amp;&amp; mpsCoda&lt;=294259}



bcm:mpsCoda {mpsCoda&gt;=277580 &amp;&amp; mpsCoda&lt;=294259}



## Cycle 4, Diffs

Entries: 1040

Mean: -0.0047 +/- 0.0080

Std Dev: 0.2594 +/- 0.0057

Entries: 2049

Mean: -0.8621 +/- 0.0106

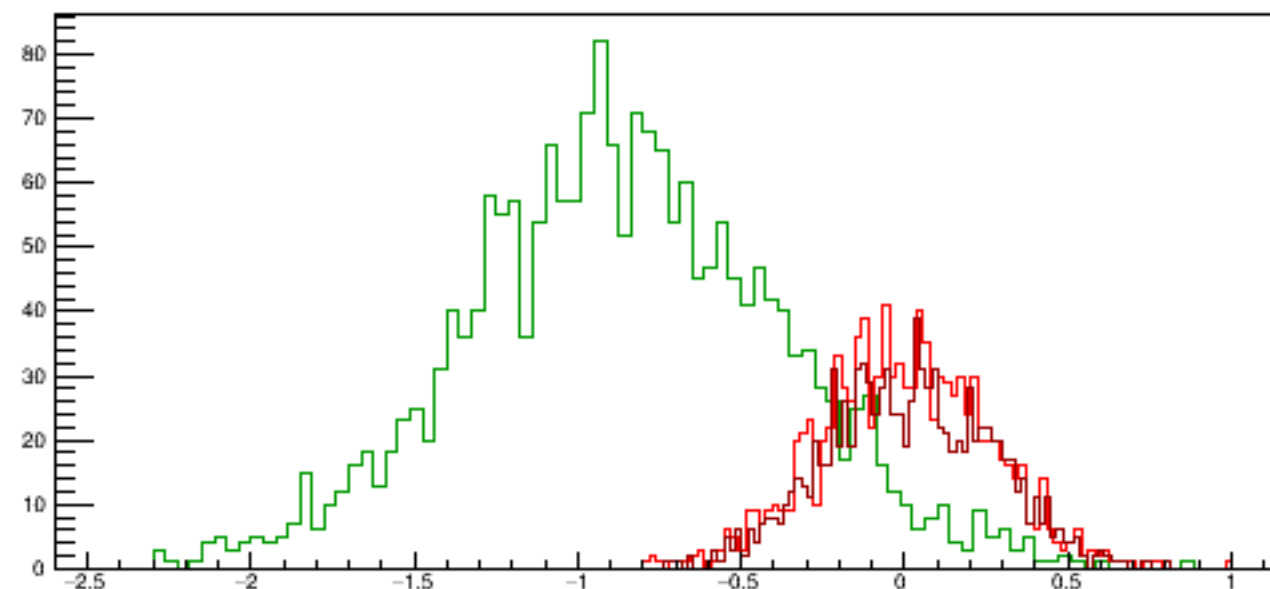
Std Dev: 0.4791 +/- 0.0075

Entries: 1036

Mean: 0.0111 +/- 0.0079

Std Dev: 0.2532 +/- 0.0056

Run 5317 quartetwise, Diffs



## Cycle 4, Sums

Entries: 1040

Mean: 3.1230 +/- 0.0090

Std Dev: 0.2899 +/- 0.0064

Entries: 2049

Mean: 30.4963 +/- 0.0389

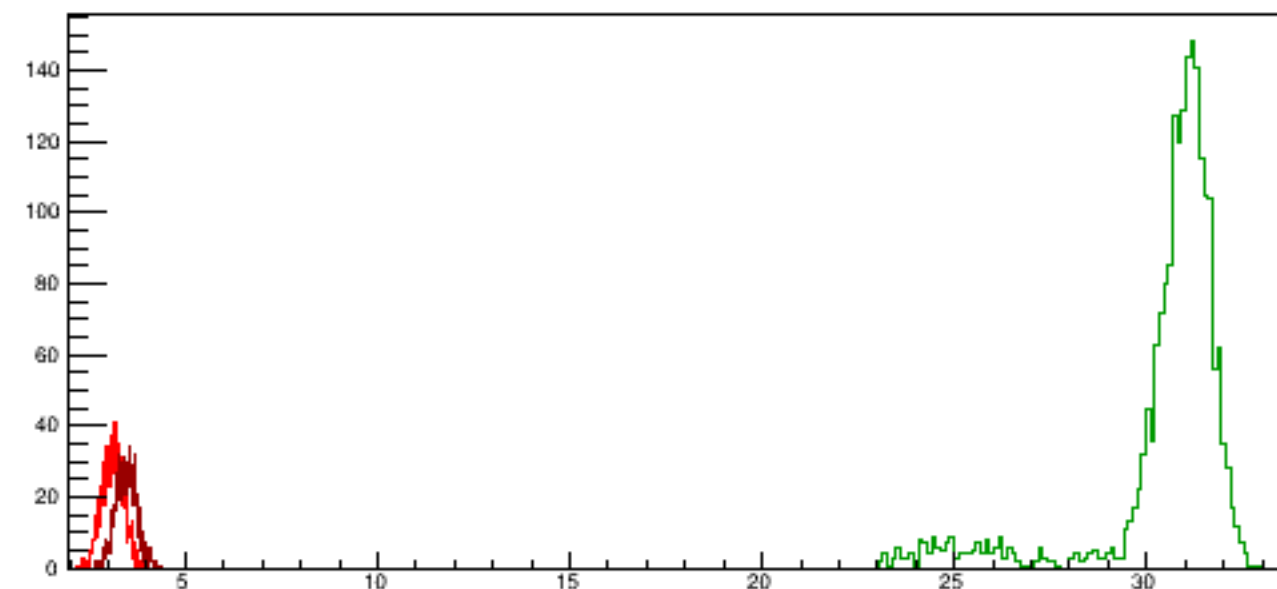
Std Dev: 1.7603 +/- 0.0275

Entries: 1036

Mean: 3.4617 +/- 0.0088

Std Dev: 0.2828 +/- 0.0062

Run 5317 quartetwise, Sums



## Cycle 4, Asyms

Entries: 1040

Mean: -0.0002 +/- 0.0003

Std Dev: 0.0095 +/- 0.0002

Entries: 2049

Mean: -0.0317 +/- 0.0004

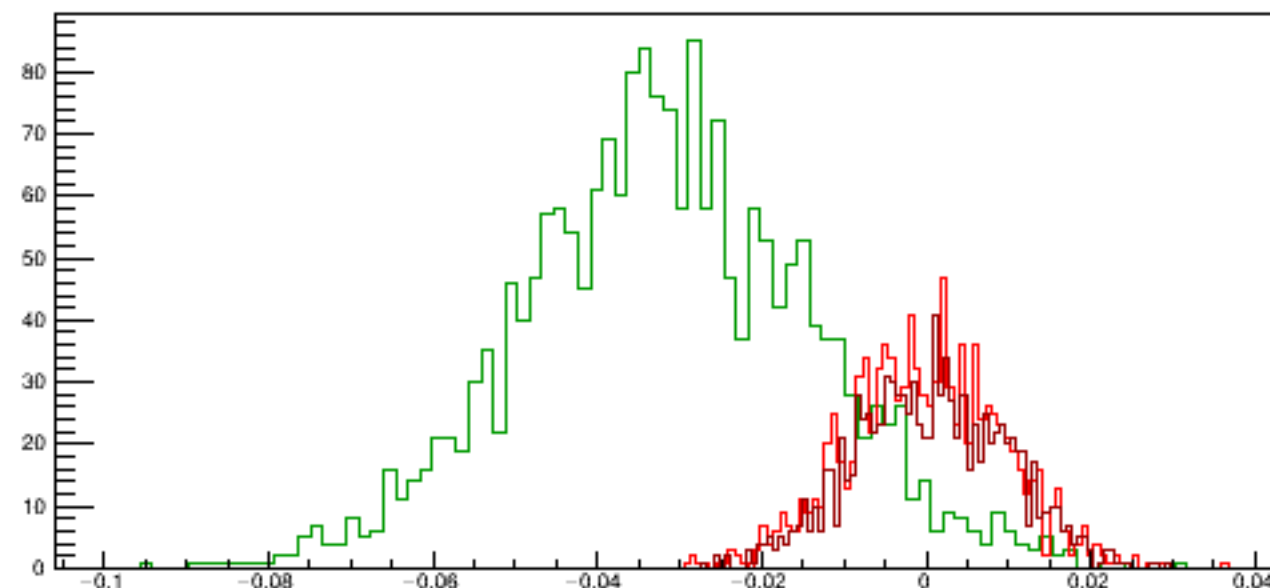
Std Dev: 0.0177 +/- 0.0003

Entries: 1036

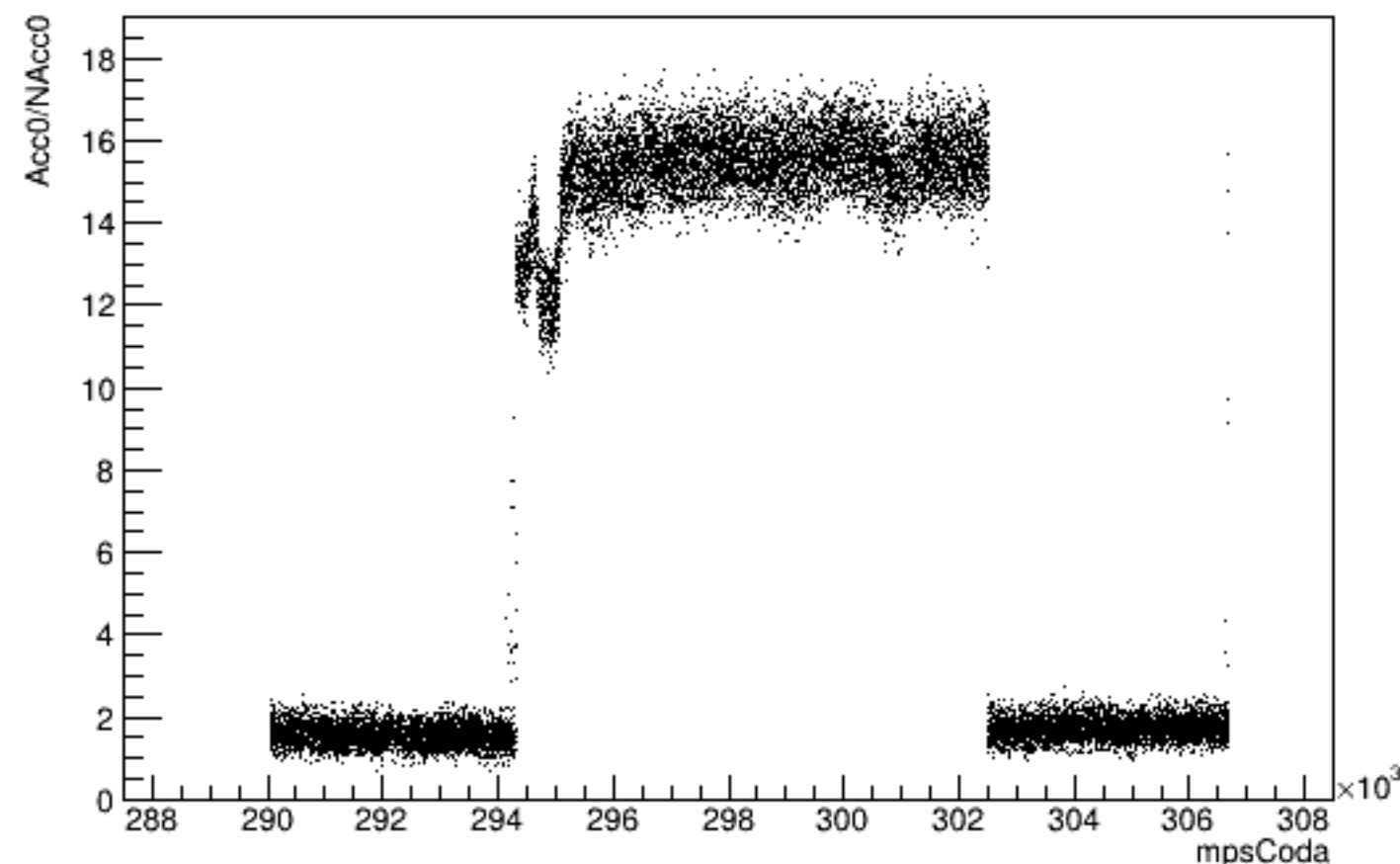
Mean: 0.0004 +/- 0.0003

Std Dev: 0.0093 +/- 0.0002

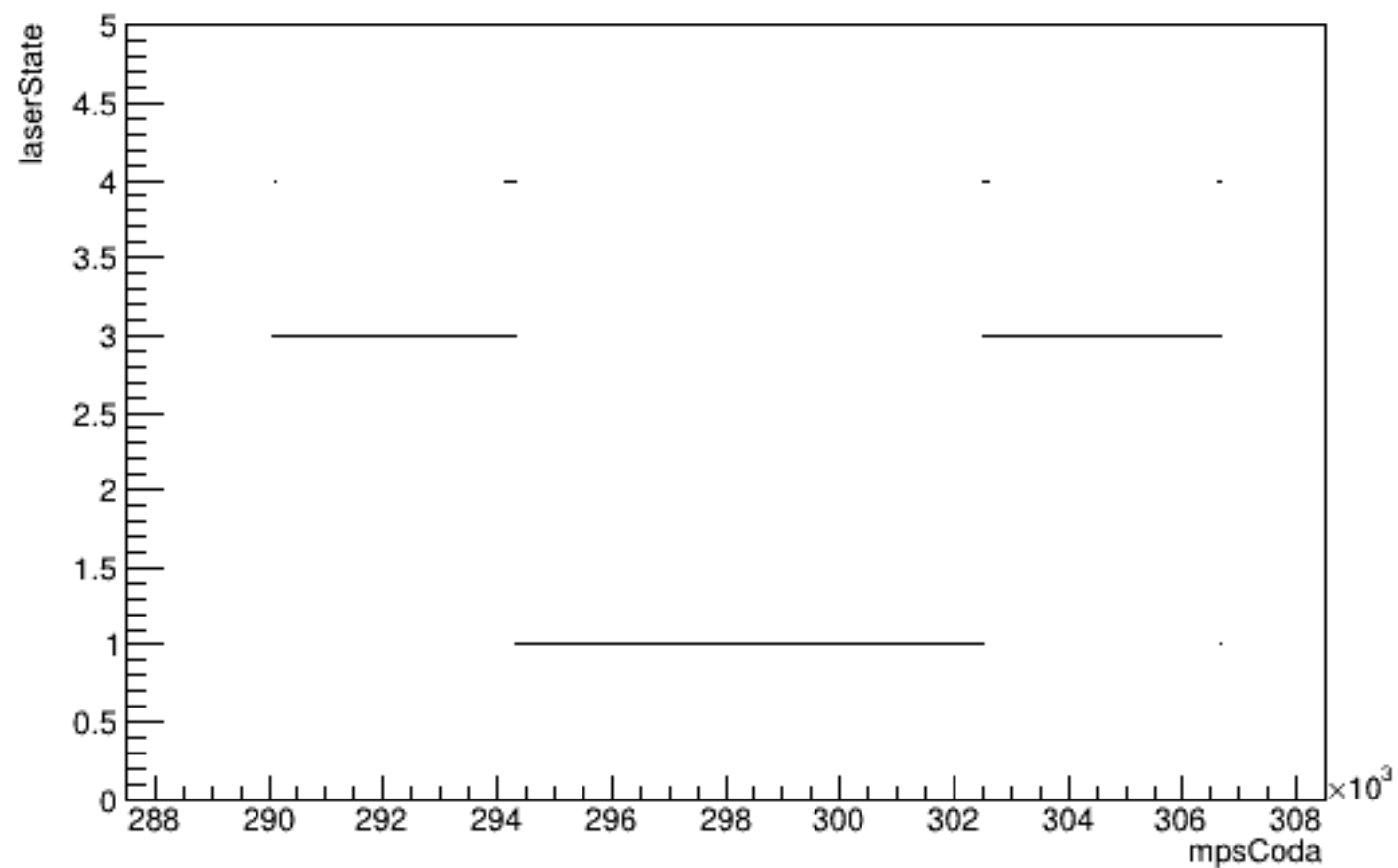
Run 5317 quartetwise, Asyms



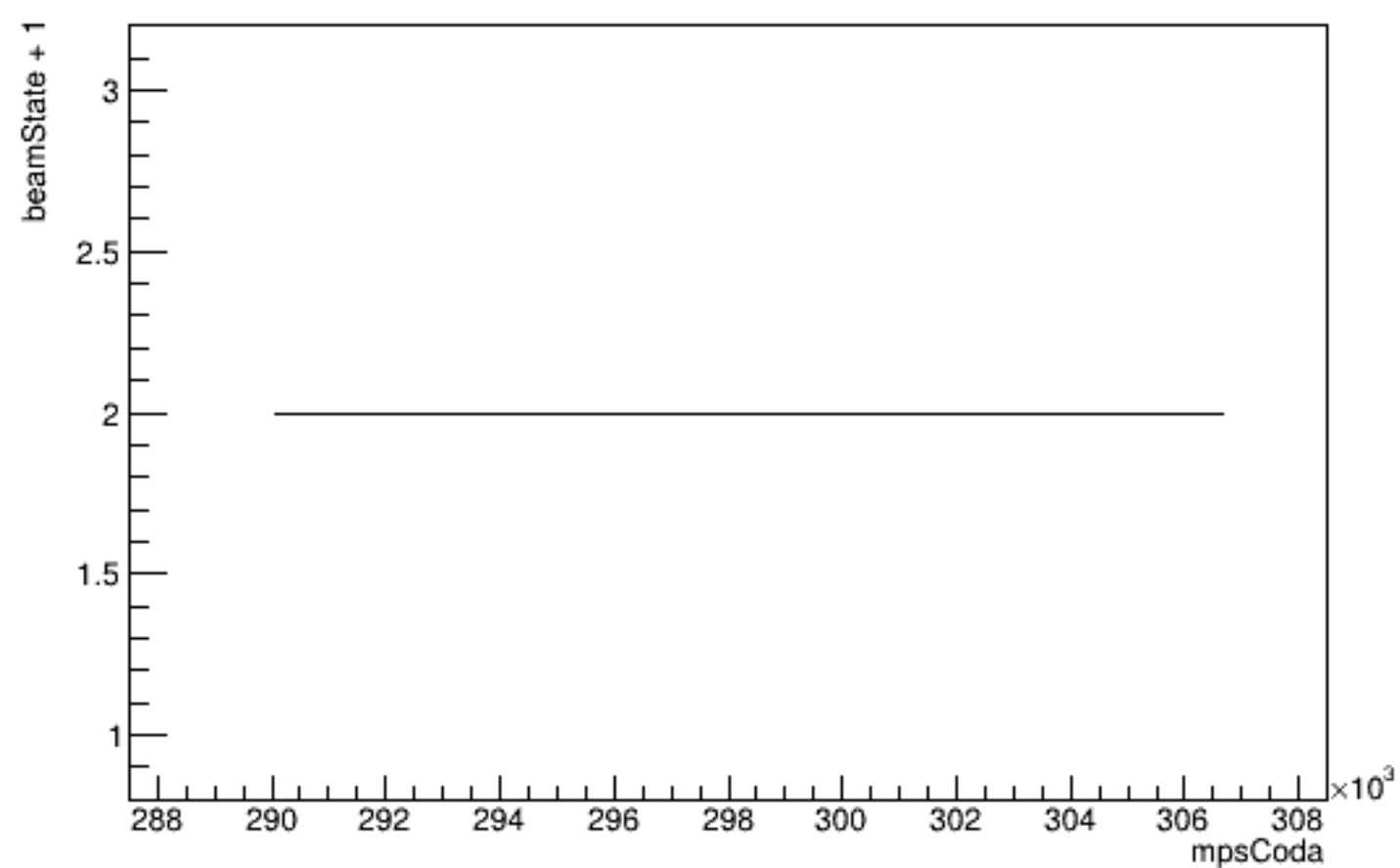
Acc0/NAcc0:mpsCoda (mpsCoda>=290044 && mpsCoda<=306683 && beamState==1)



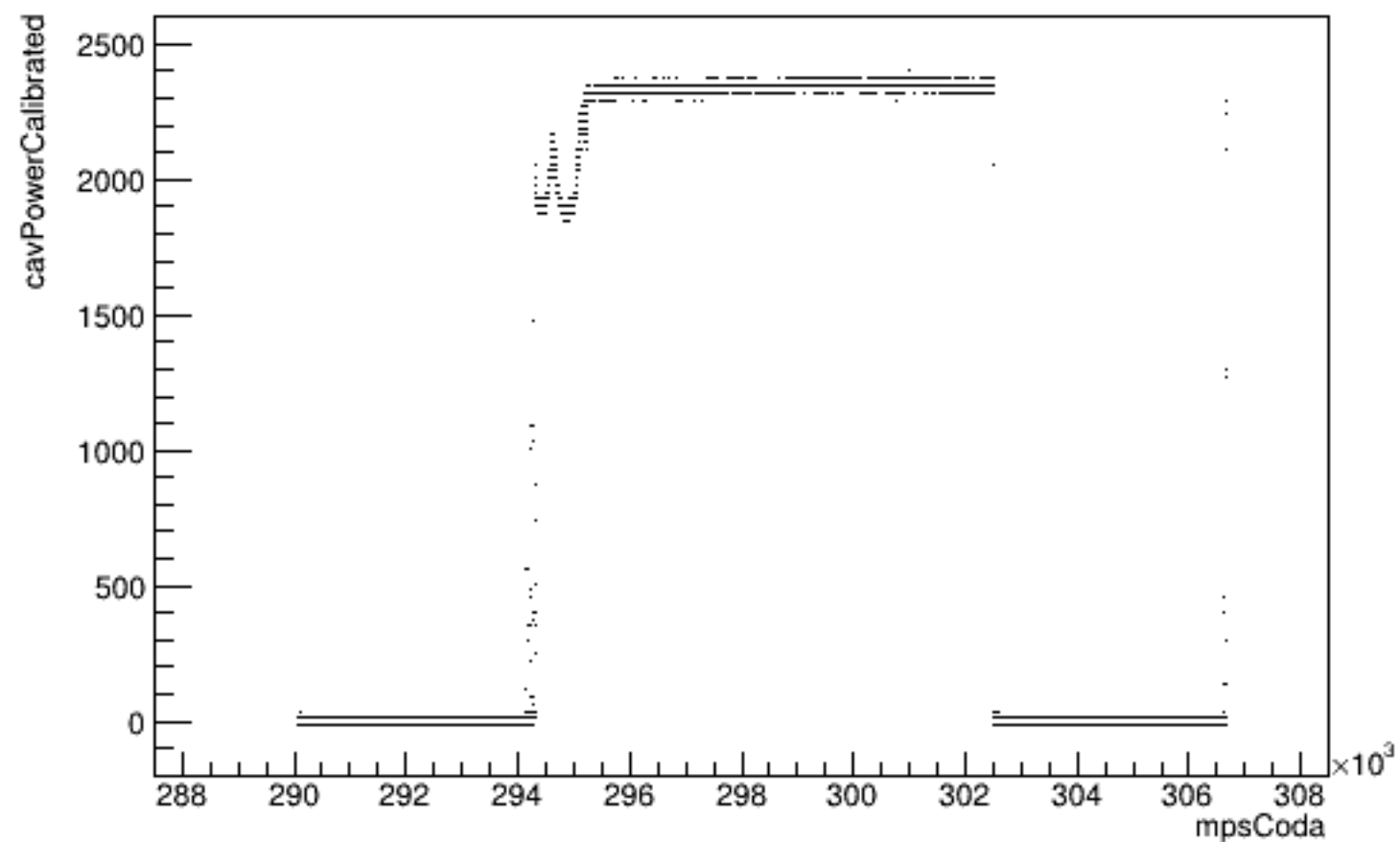
laserState:mpsCoda {mpsCoda&gt;=290044 &amp;&amp; mpsCoda&lt;=306683}



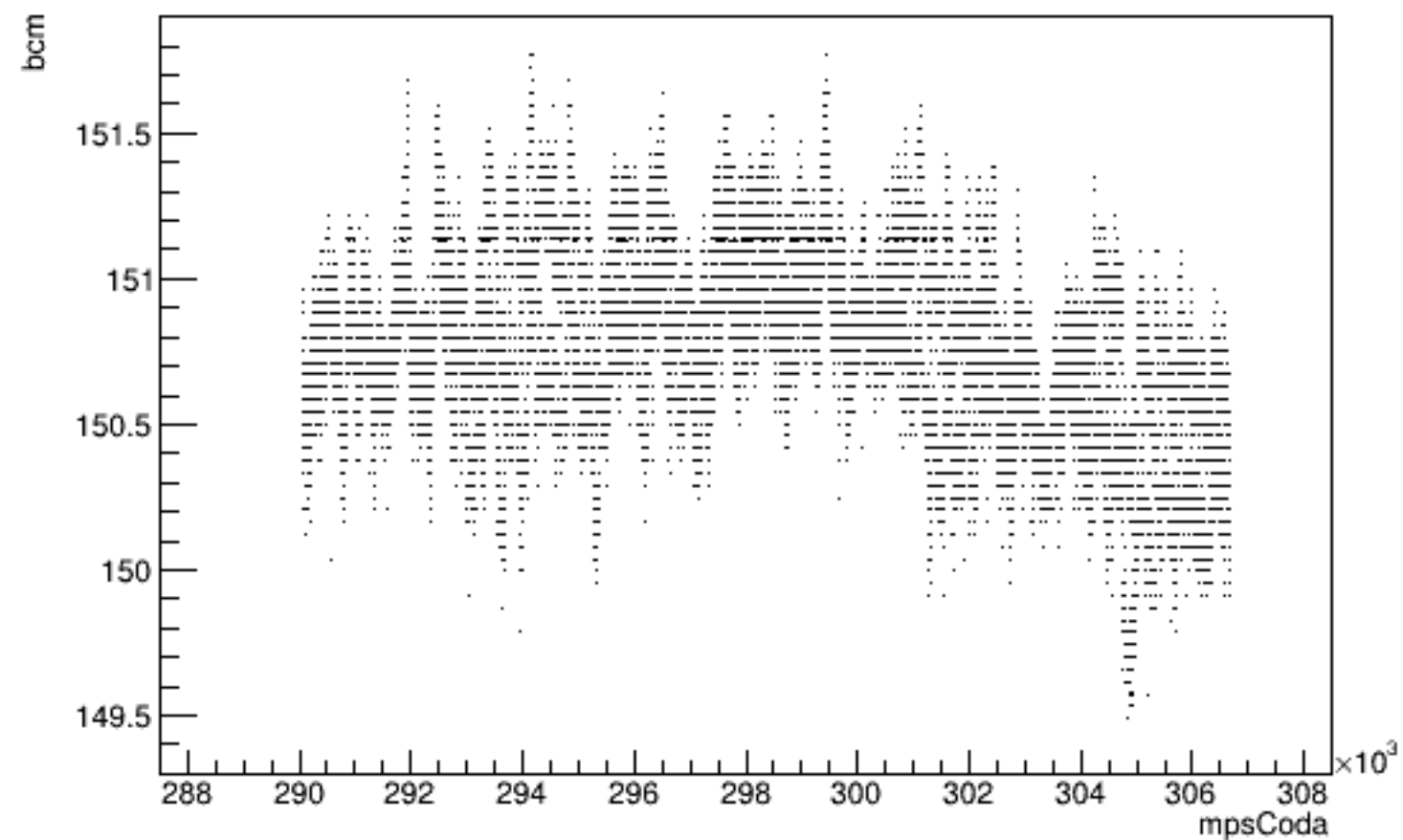
beamState + 1:mpsCoda {mpsCoda&gt;=290044 &amp;&amp; mpsCoda&lt;=306683}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=290044 &amp;&amp; mpsCoda&lt;=306683}



bcm:mpsCoda {mpsCoda&gt;=290044 &amp;&amp; mpsCoda&lt;=306683}



## Cycle 5, Diffs

Entries: 1036

Mean: 0.0111 +/- 0.0079

Std Dev: 0.2532 +/- 0.0056

Entries: 1950

Mean: -0.8758 +/- 0.0109

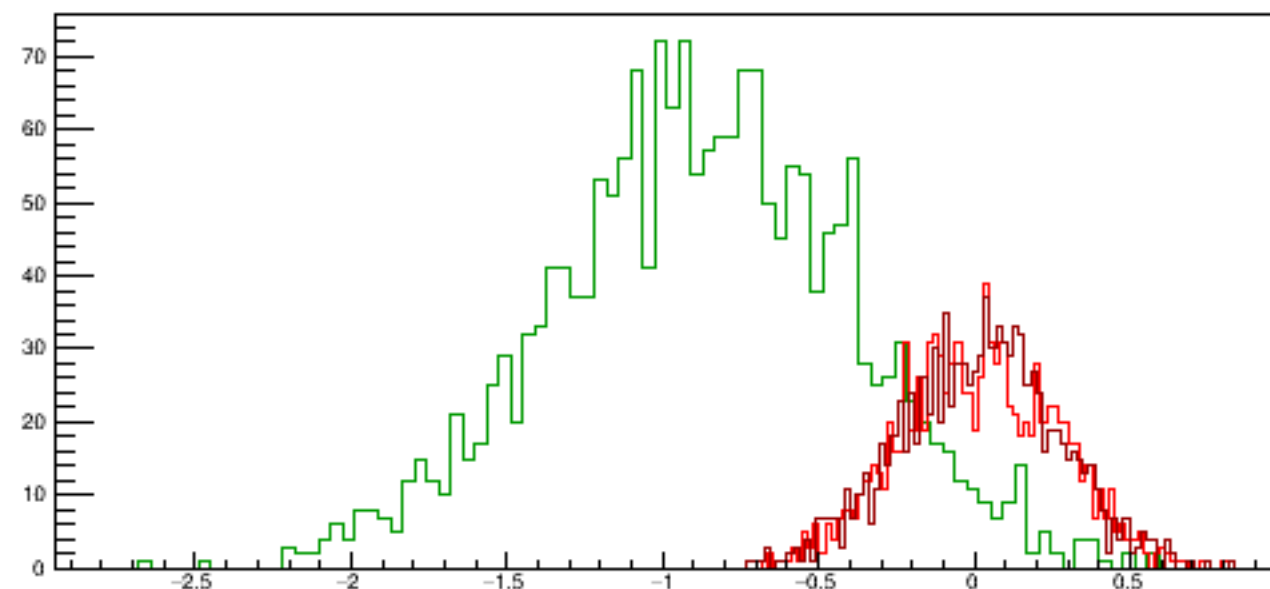
Std Dev: 0.4813 +/- 0.0077

Entries: 1039

Mean: 0.0137 +/- 0.0078

Std Dev: 0.2515 +/- 0.0055

Run 5317 quartetwise, Diffs



## Cycle 5, Sums

Entries: 1036

Mean: 3.4617 +/- 0.0088

Std Dev: 0.2828 +/- 0.0062

Entries: 1950

Mean: 31.1635 +/- 0.0234

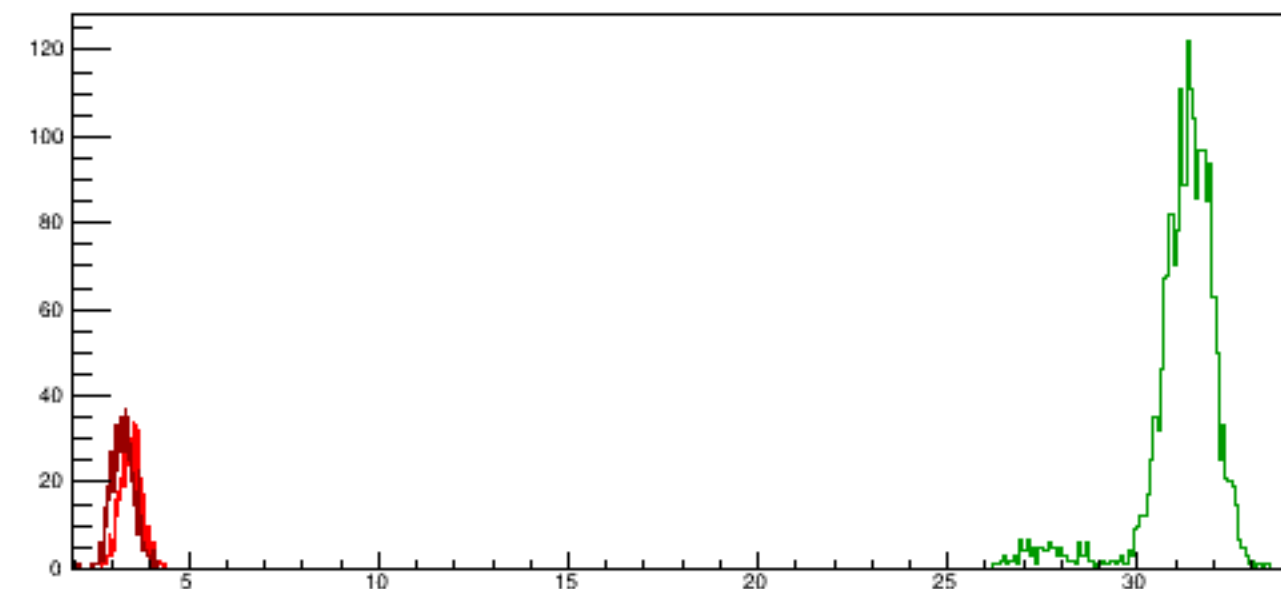
Std Dev: 1.0351 +/- 0.0166

Entries: 1039

Mean: 3.2518 +/- 0.0094

Std Dev: 0.3044 +/- 0.0067

Run 5317 quartetwise, Sums



## Cycle 5, Asyms

Entries: 1036

Mean: 0.0004 +/- 0.0003

Std Dev: 0.0091 +/- 0.0002

Entries: 1950

Mean: -0.0315 +/- 0.0004

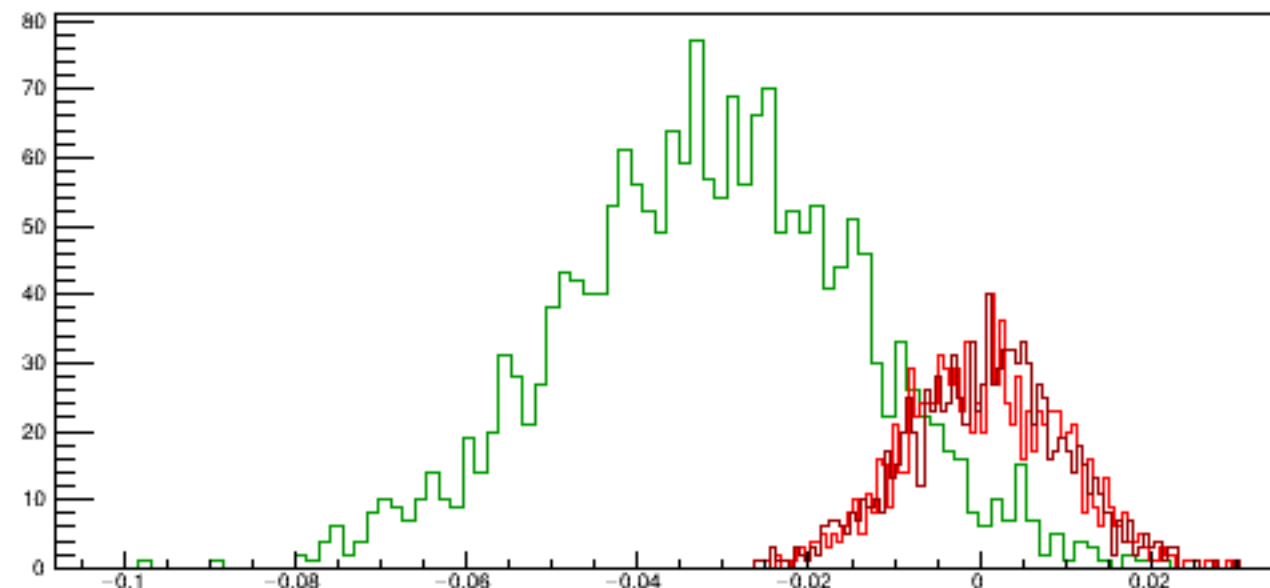
Std Dev: 0.0173 +/- 0.0003

Entries: 1039

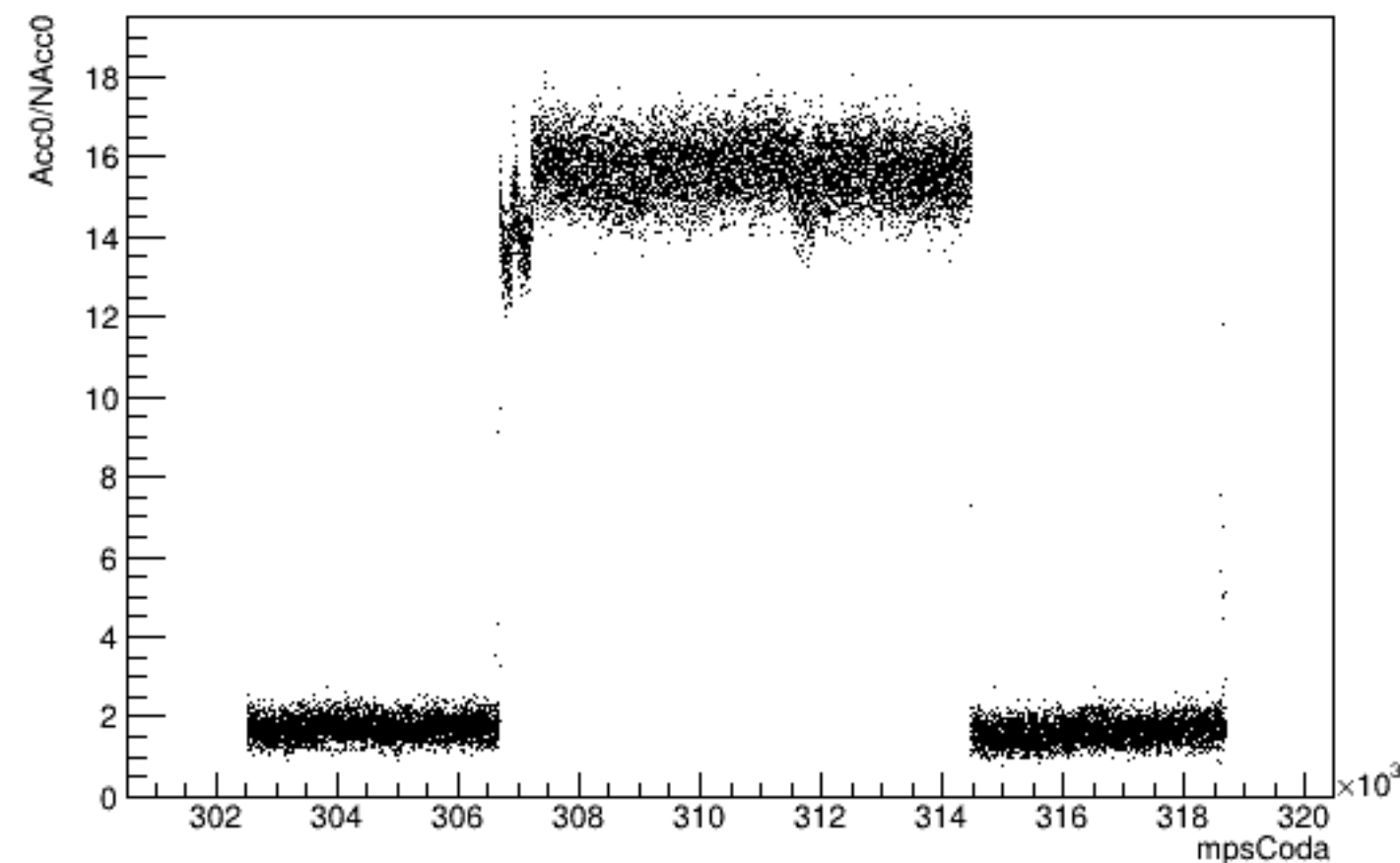
Mean: 0.0005 +/- 0.0003

Std Dev: 0.0090 +/- 0.0002

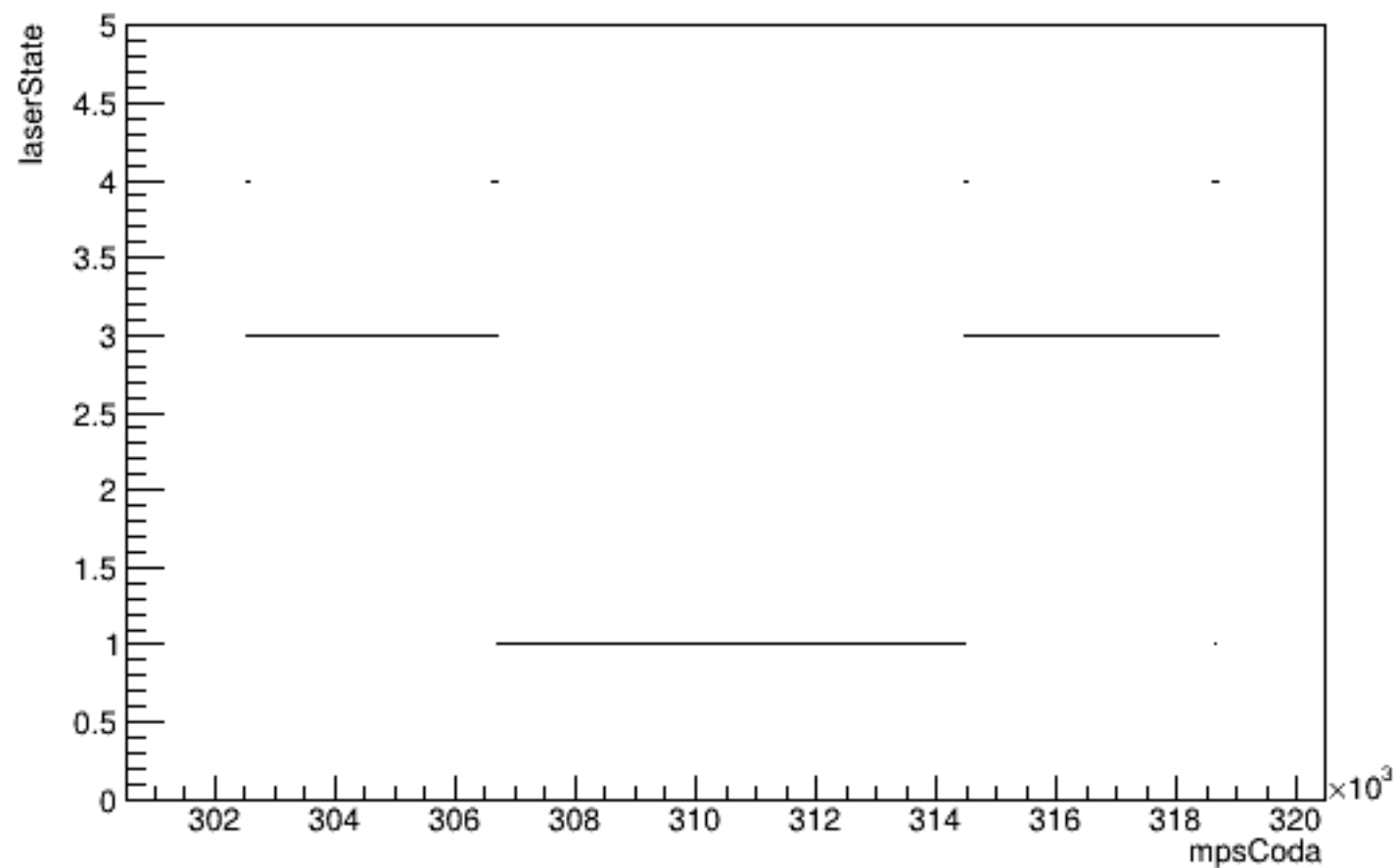
Run 5317 quartetwise, Asyms



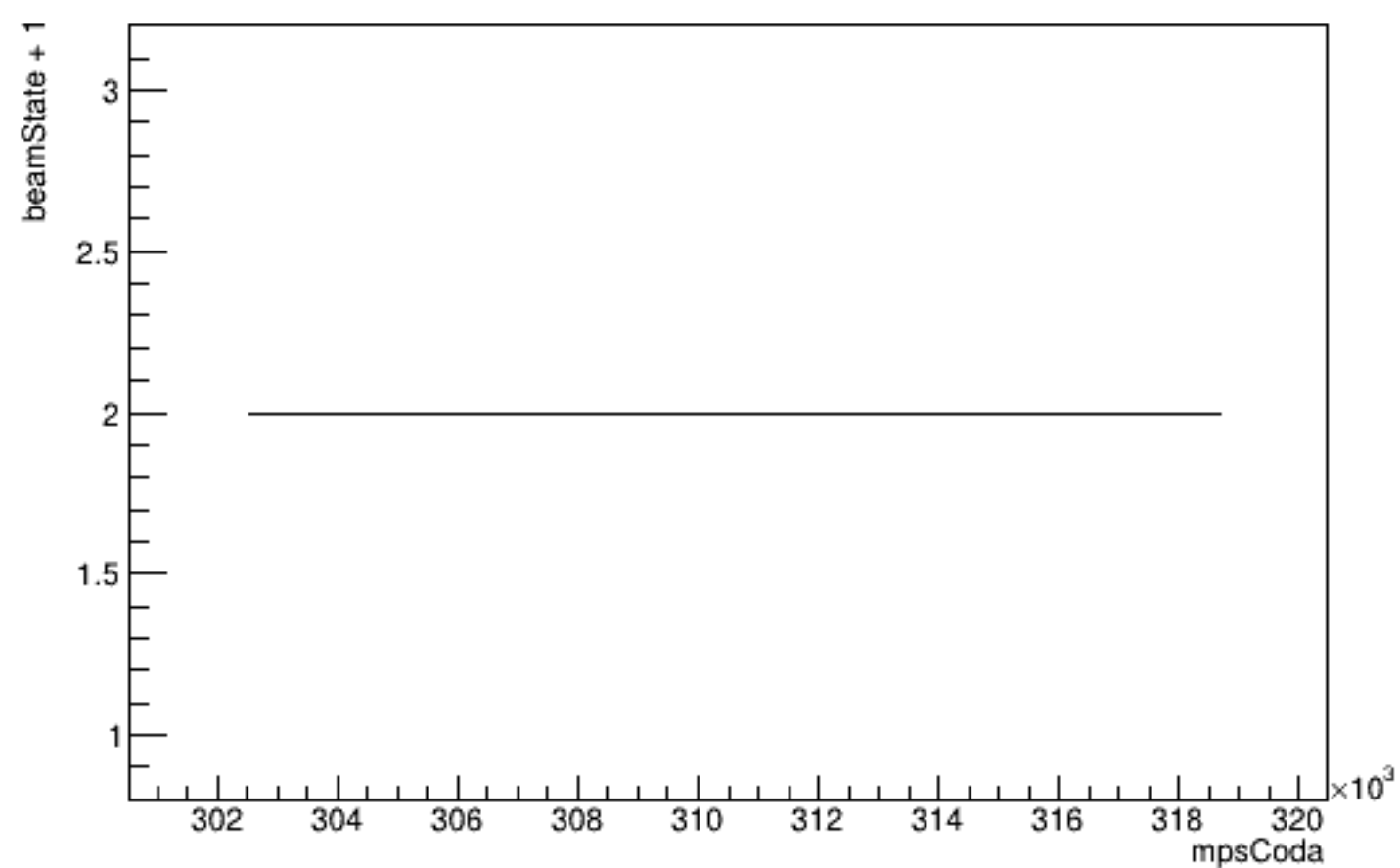
Acc0/NAcc0:mpsCoda (mpsCoda>=302508 && mpsCoda<=318679 && beamState==1)



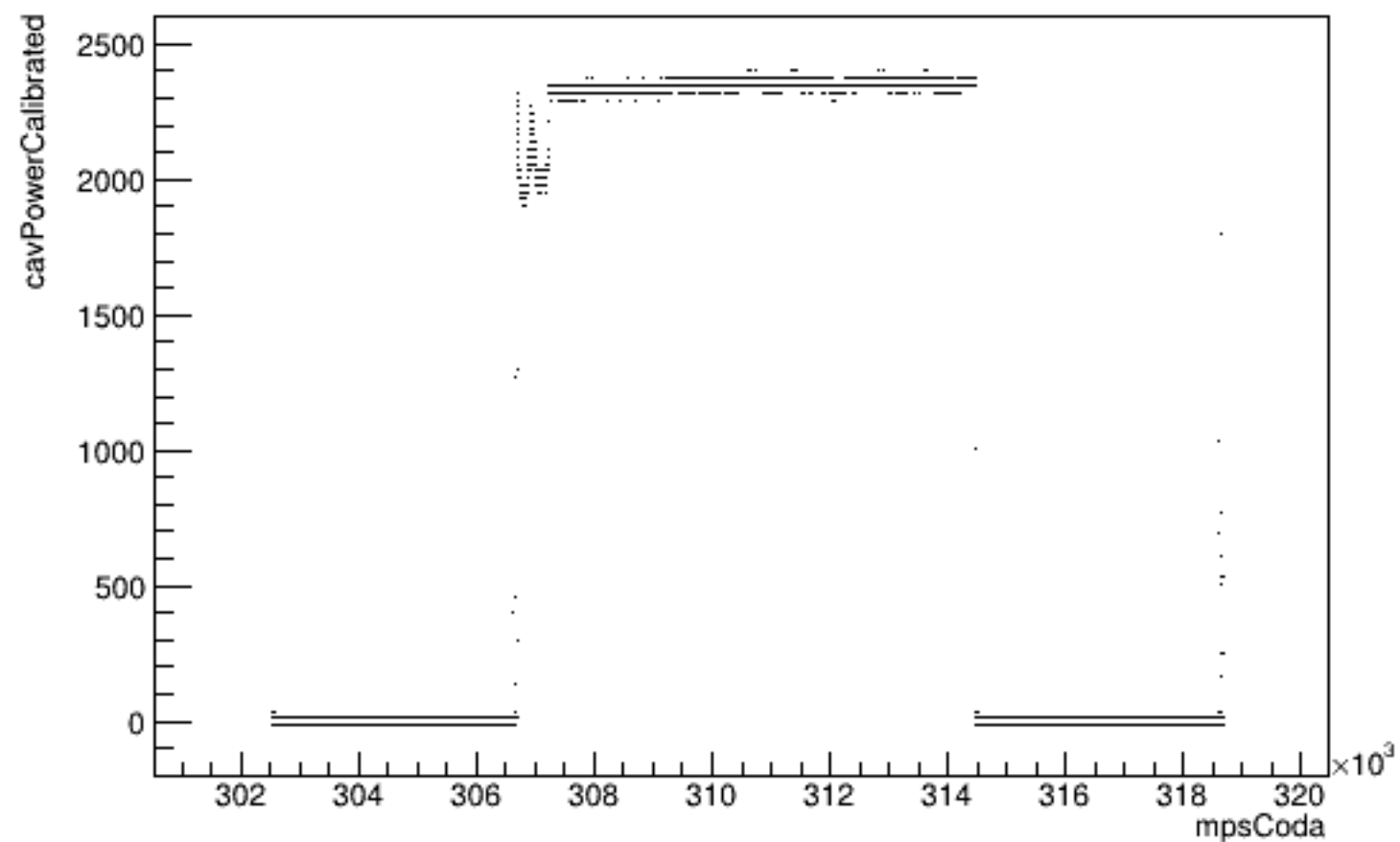
laserState:mpsCoda {mpsCoda&gt;=302508 &amp;&amp; mpsCoda&lt;=318679}



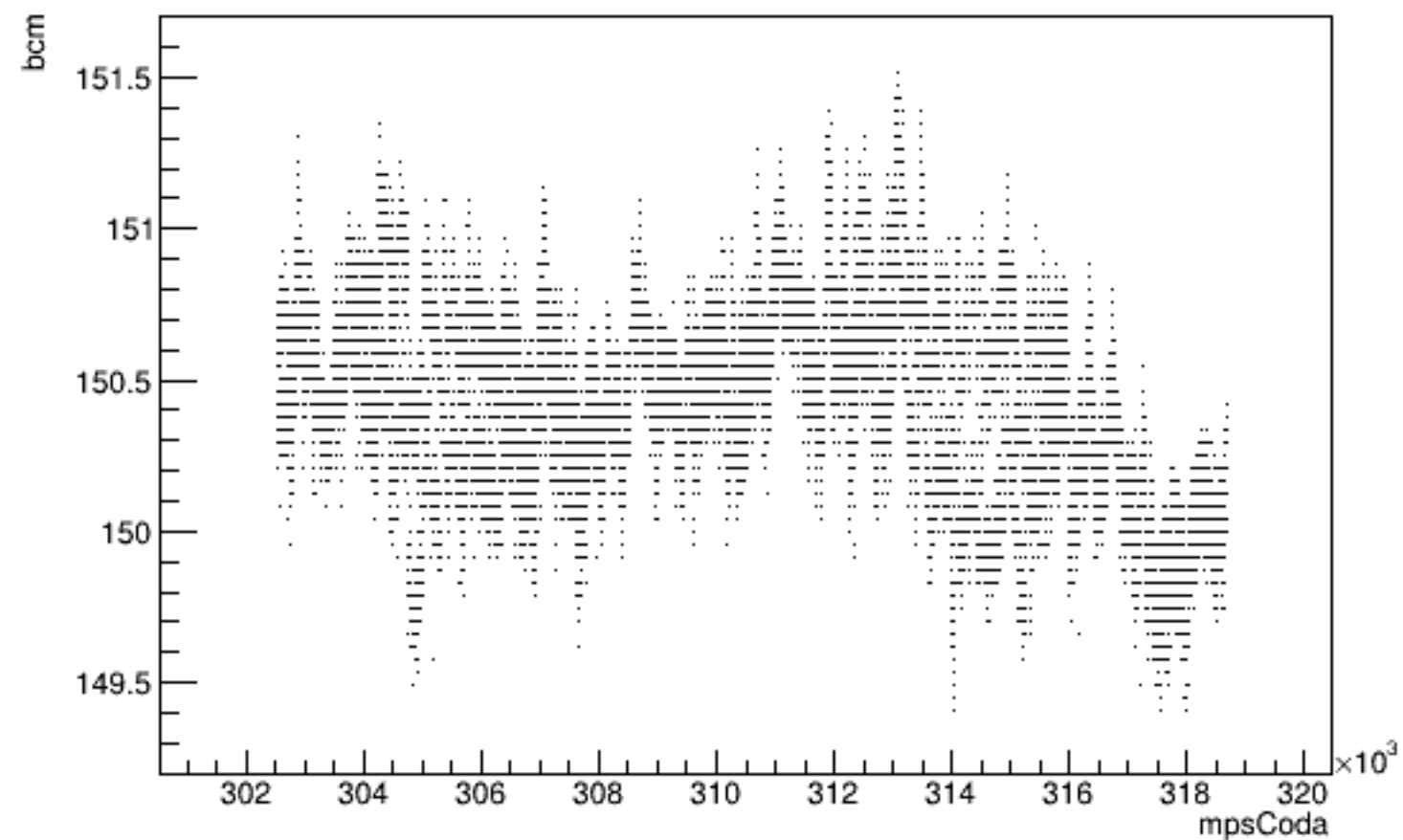
beamState + 1:mpsCoda {mpsCoda&gt;=302508 &amp;&amp; mpsCoda&lt;=318679}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=302508 &amp;&amp; mpsCoda&lt;=318679}



bcm:mpsCoda {mpsCoda&gt;=302508 &amp;&amp; mpsCoda&lt;=318679}



## Cycle 6, Diffs

Entries: 1027

Mean: 0.0084 +/- 0.0078

Std Dev: 0.2509 +/- 0.0055

Entries: 1951

Mean: -0.8569 +/- 0.0110

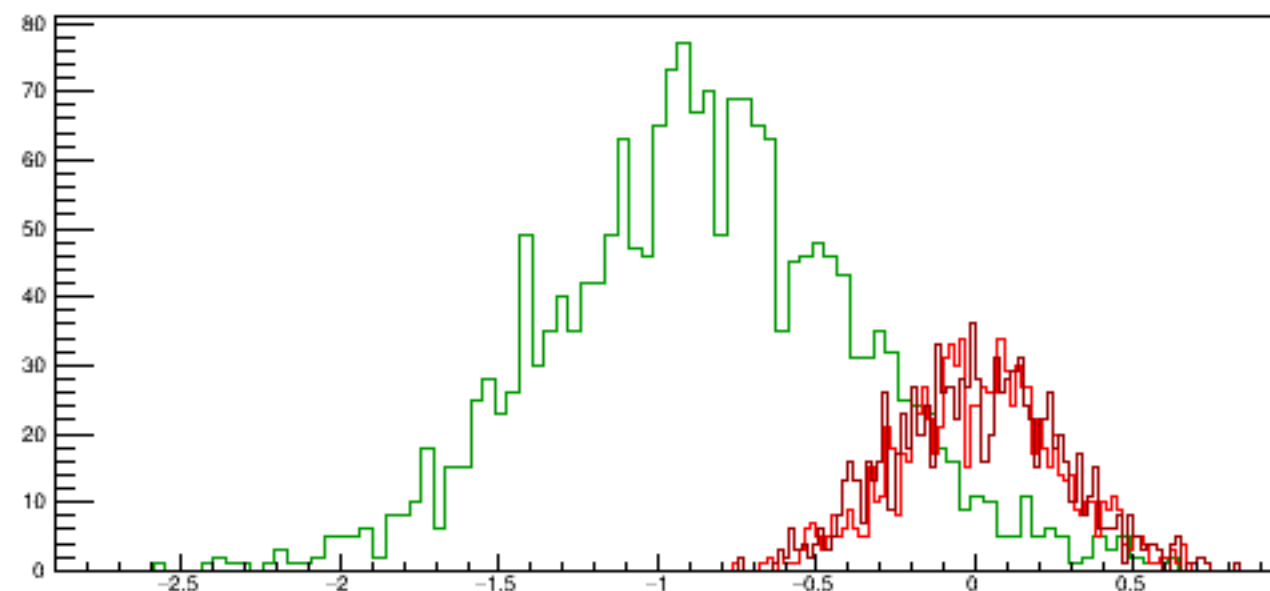
Std Dev: 0.4844 +/- 0.0078

Entries: 1023

Mean: 0.0018 +/- 0.0082

Std Dev: 0.2635 +/- 0.0058

Run 5317 quartetwise, Diffs



## Cycle 6, Sums

Entries: 1027

Mean: 3.3474 +/- 0.0095

Std Dev: 0.3035 +/- 0.0067

Entries: 1951

Mean: 30.9721 +/- 0.0241

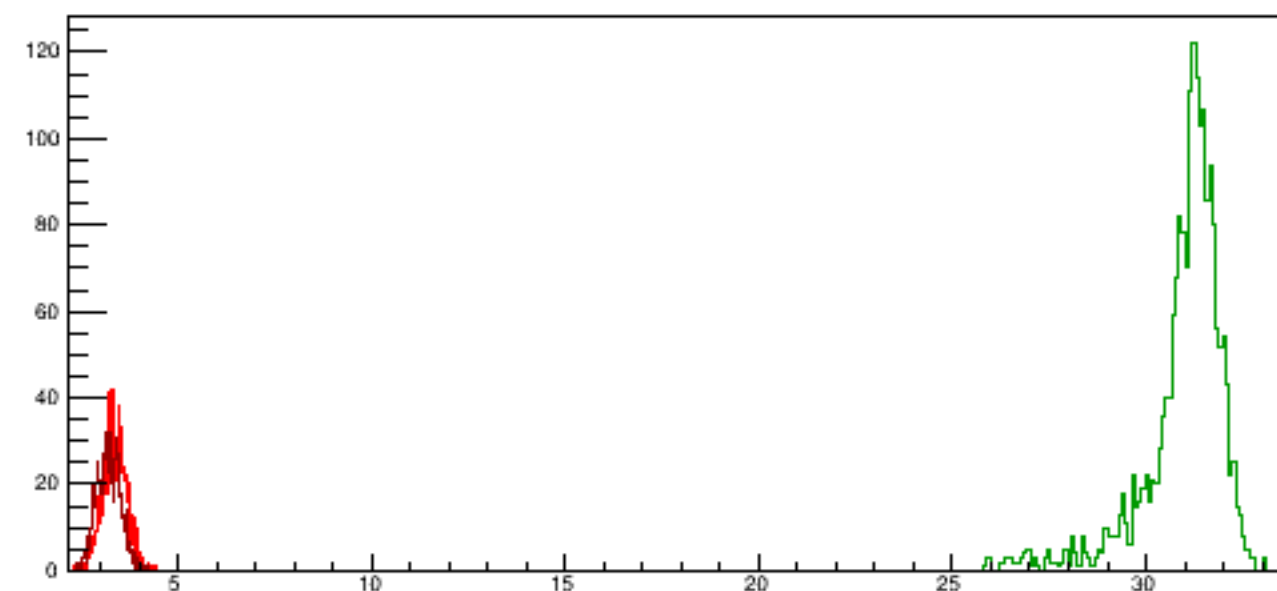
Std Dev: 1.0626 +/- 0.0170

Entries: 1023

Mean: 3.1895 +/- 0.0093

Std Dev: 0.2959 +/- 0.0065

Run 5317 quartetwise, Sums



## Cycle 6, Asyms

Entries: 1027

Mean: 0.0003 +/- 0.0003

Std Dev: 0.0091 +/- 0.0002

Entries: 1951

Mean: -0.0309 +/- 0.0004

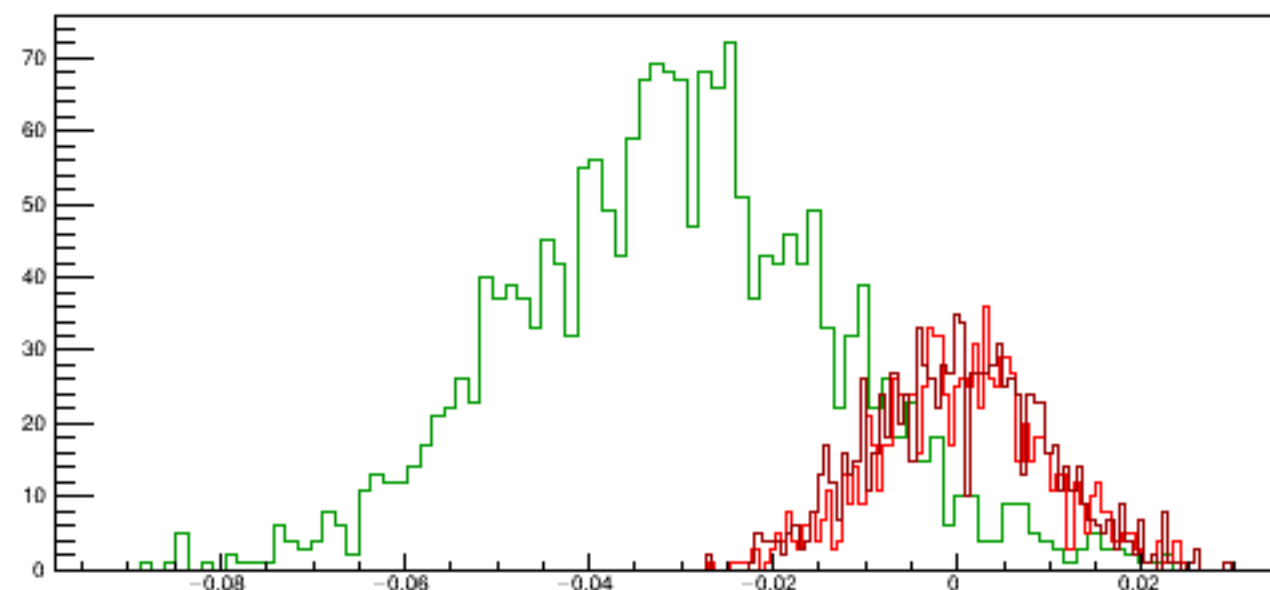
Std Dev: 0.0175 +/- 0.0003

Entries: 1023

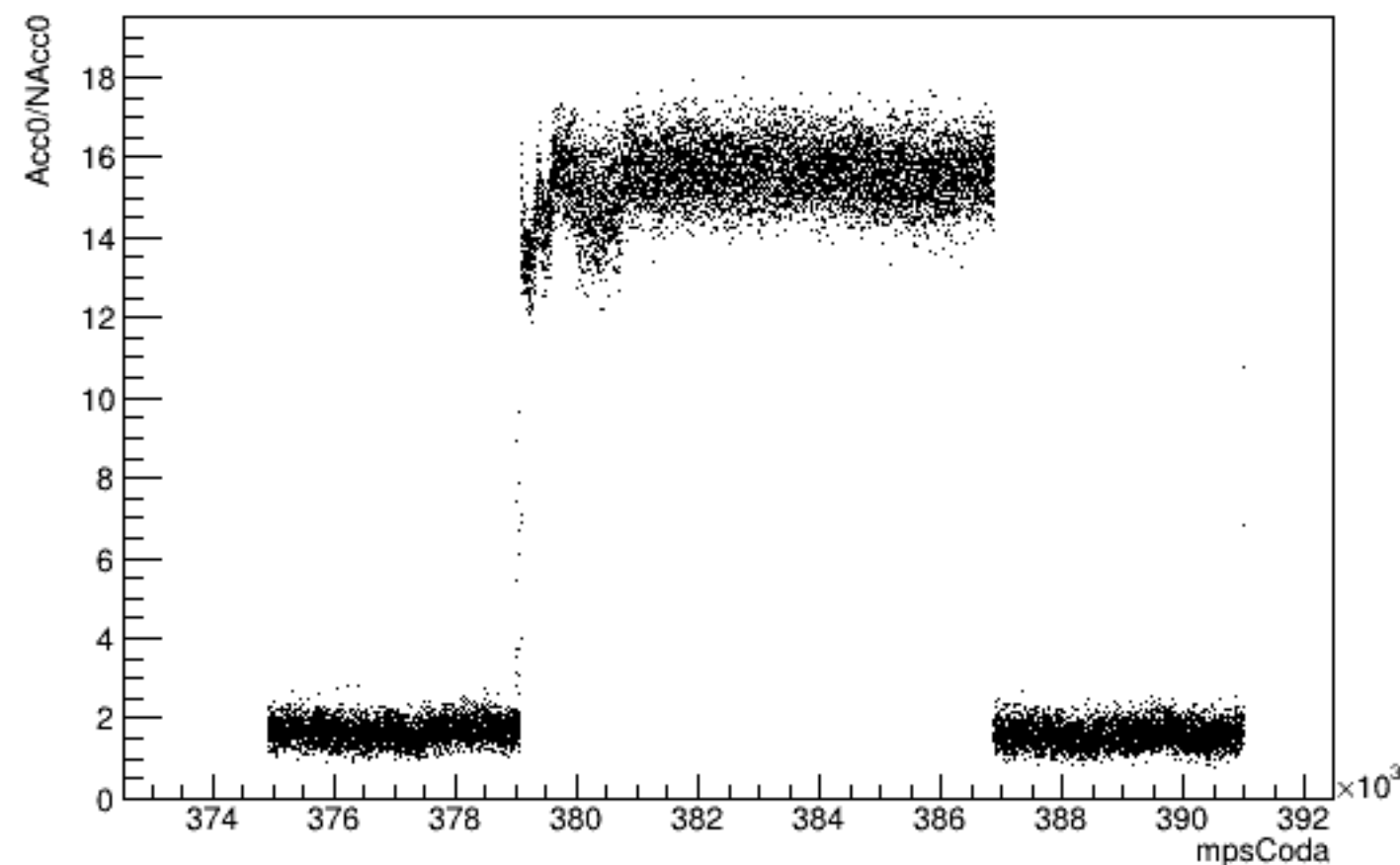
Mean: 0.0001 +/- 0.0003

Std Dev: 0.0095 +/- 0.0002

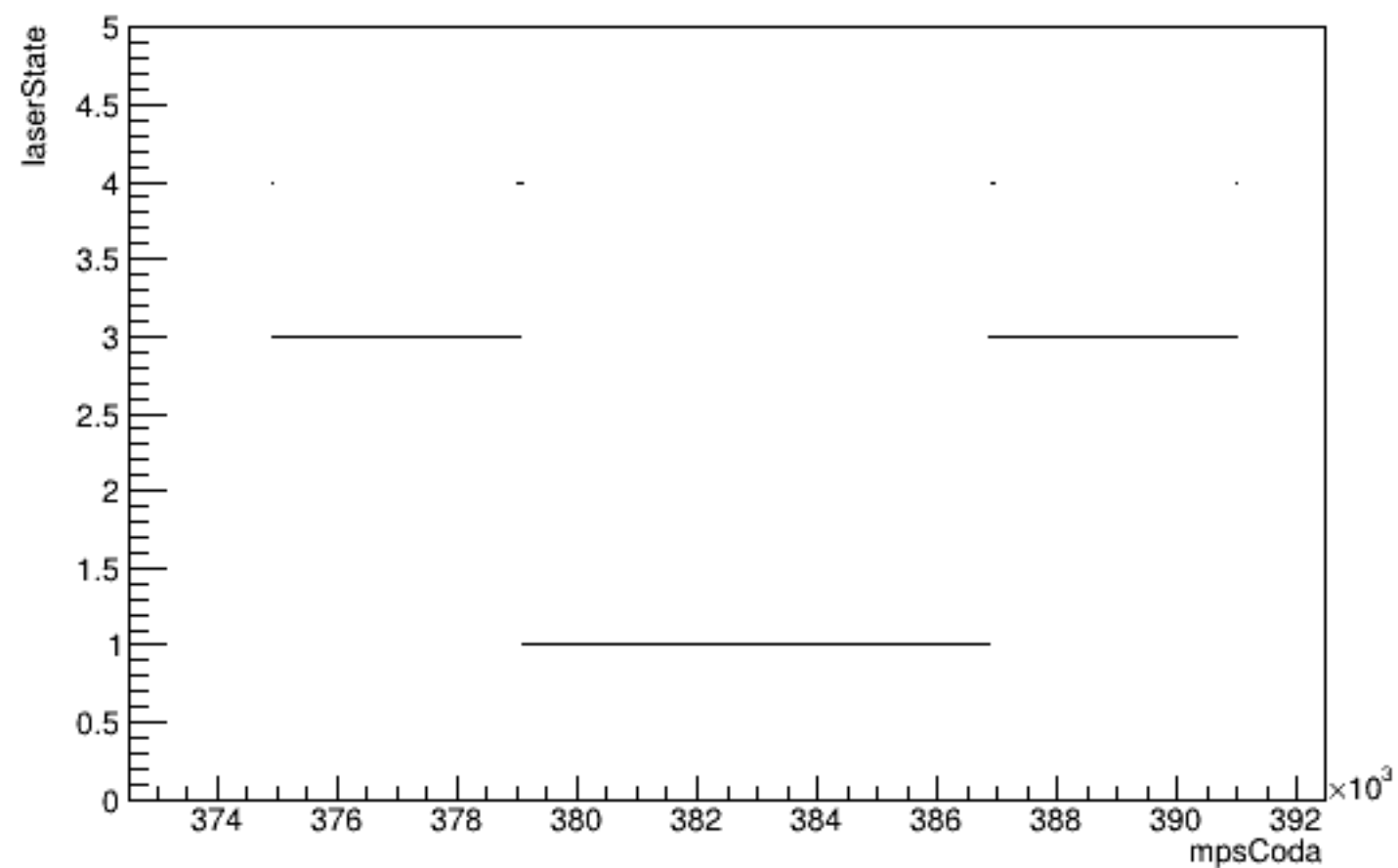
Run 5317 quartetwise, Asyms



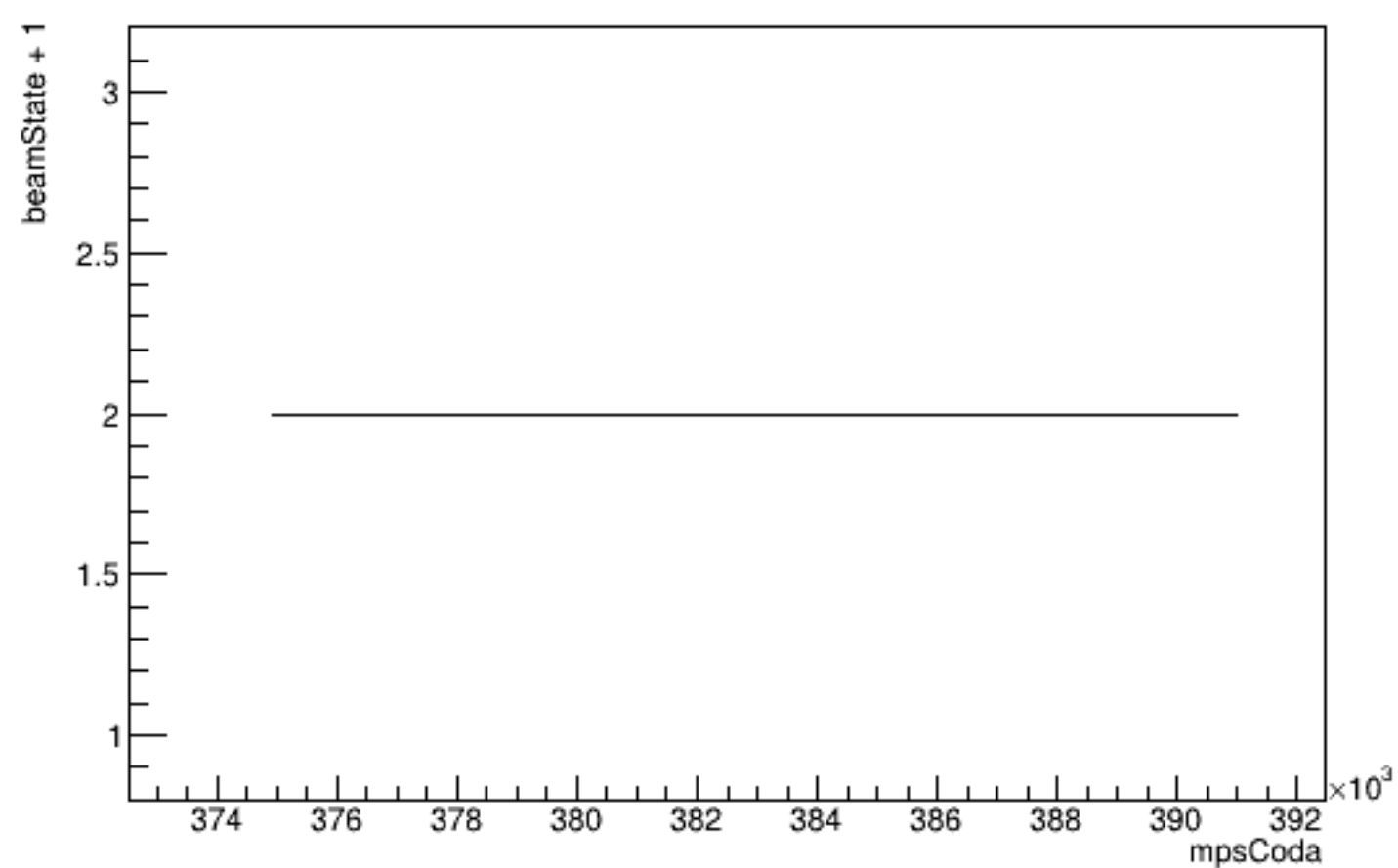
Acc0/NAcc0:mpsCoda (mpsCoda>=374900 && mpsCoda<=390983 && beamState==1)



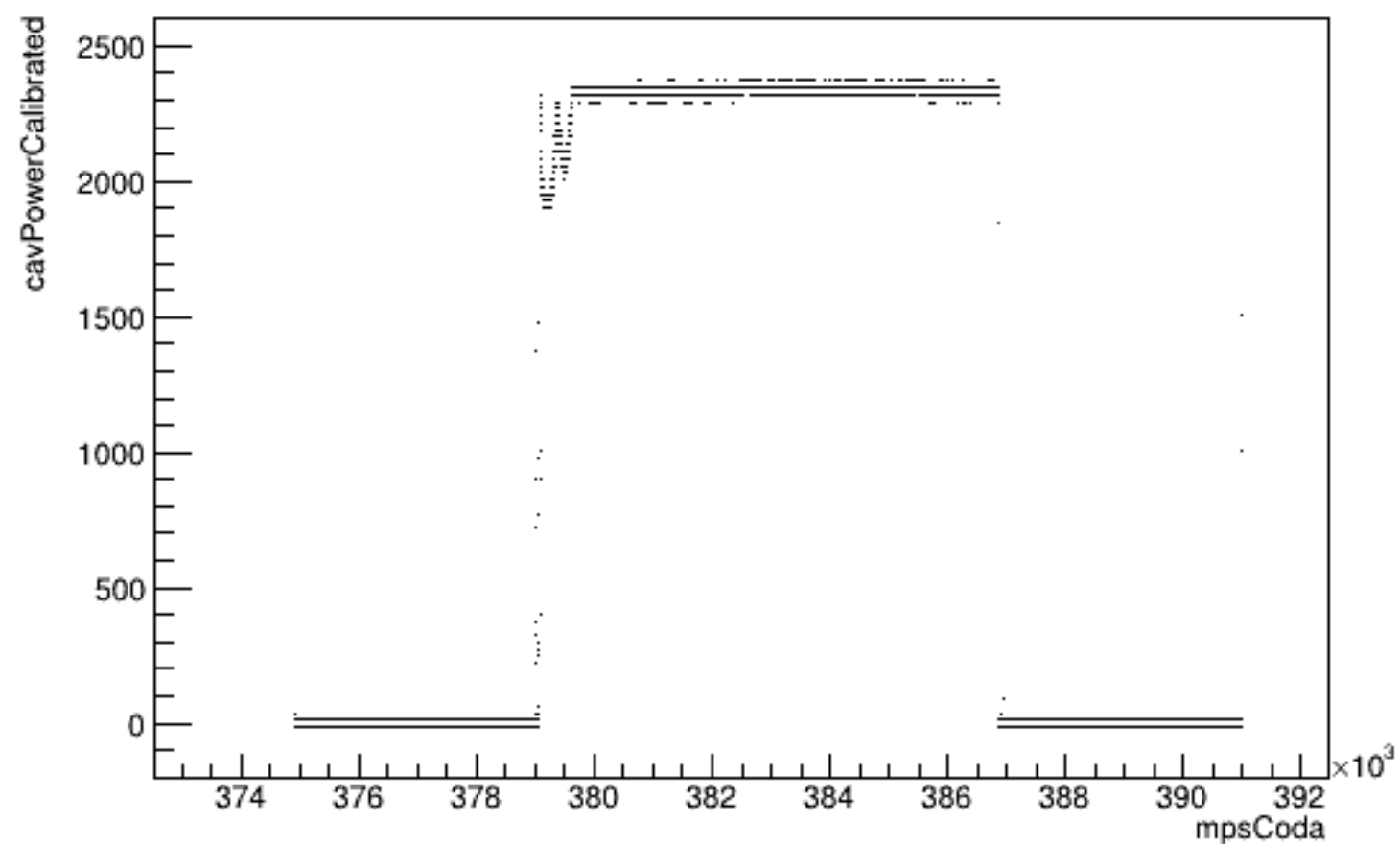
laserState:mpsCoda {mpsCoda&gt;=374900 &amp;&amp; mpsCoda&lt;=390983}



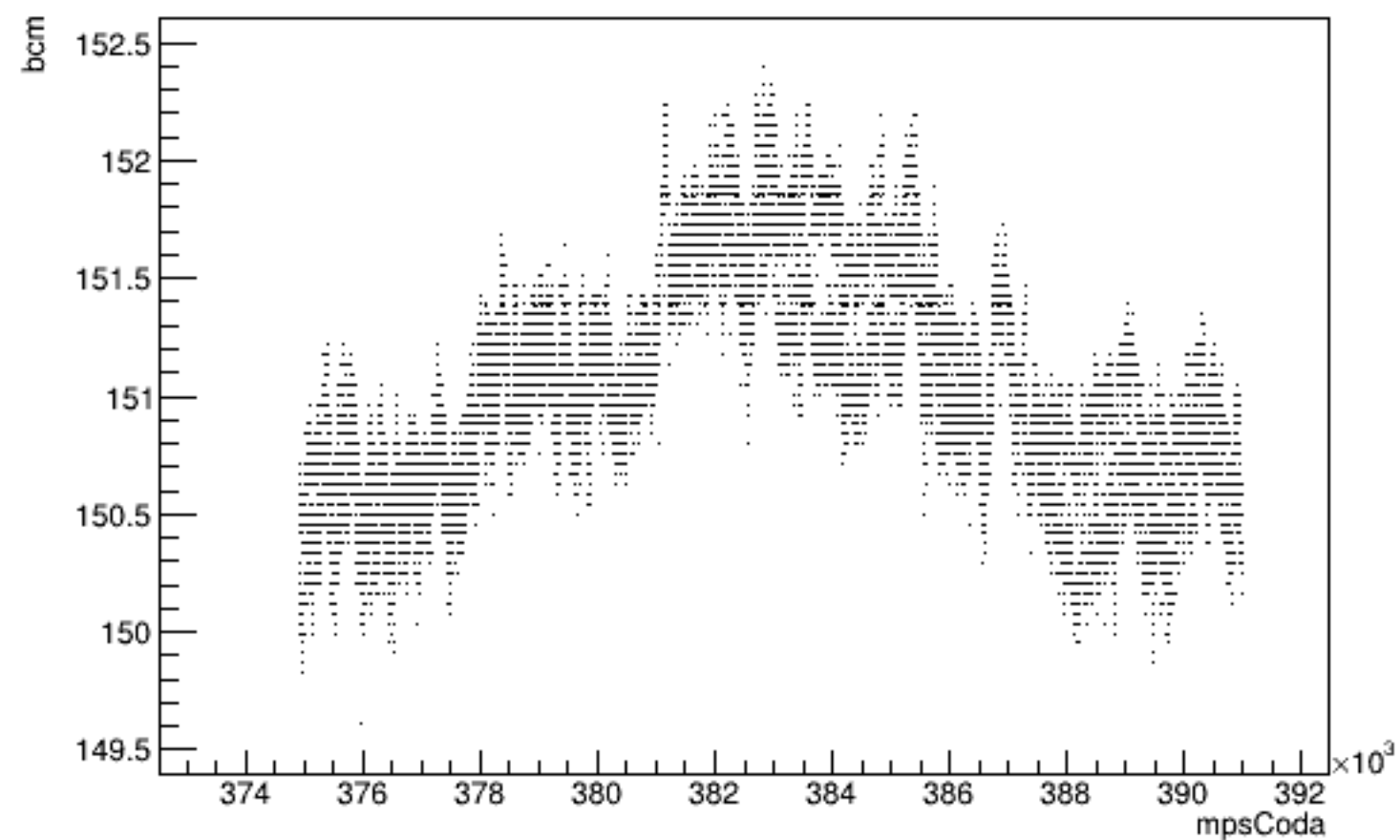
beamState + 1:mpsCoda {mpsCoda&gt;=374900 &amp;&amp; mpsCoda&lt;=390983}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=374900 &amp;&amp; mpsCoda&lt;=390983}



bcm:mpsCoda {mpsCoda&gt;=374900 &amp;&amp; mpsCoda&lt;=390983}



## Cycle 7, Diffs

Entries: 1023

Mean: 0.0018 +/- 0.0082

Std Dev: 0.2635 +/- 0.0058

Entries: 2029

Mean: -0.8441 +/- 0.0108

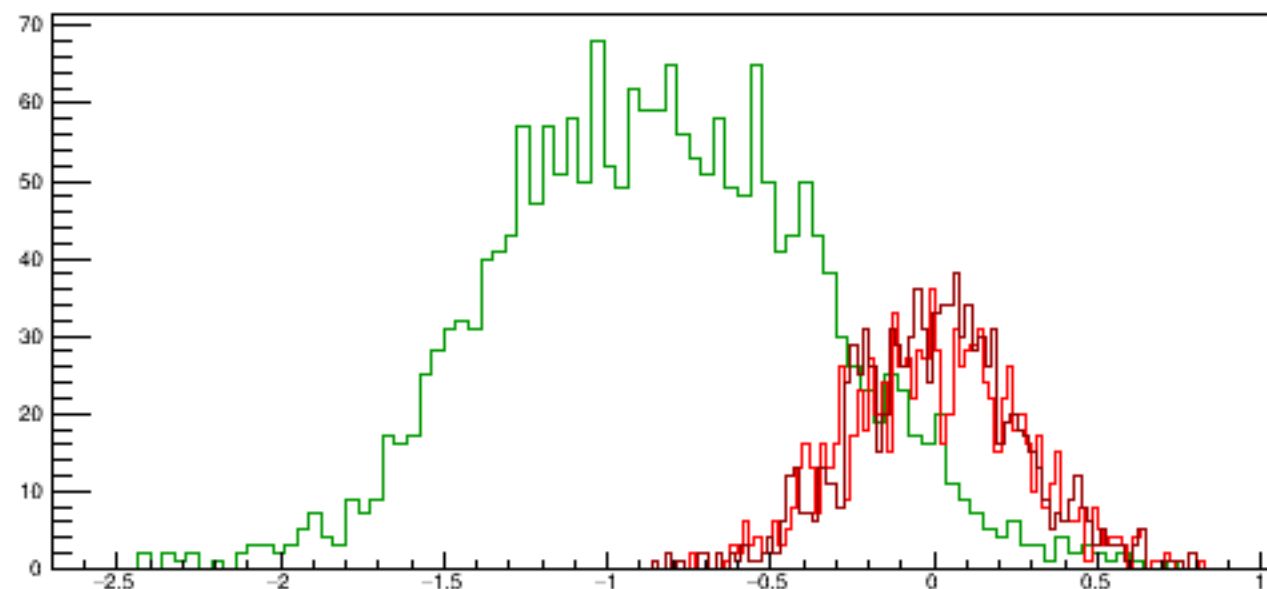
Std Dev: 0.4850 +/- 0.0076

Entries: 1026

Mean: 0.0030 +/- 0.0079

Std Dev: 0.2546 +/- 0.0056

Run 5317 quartetwise, Diffs



## Cycle 7, Sums

Entries: 1023

Mean: 3.1895 +/- 0.0093

Std Dev: 0.2959 +/- 0.0065

Entries: 2029

Mean: 30.3614 +/- 0.0328

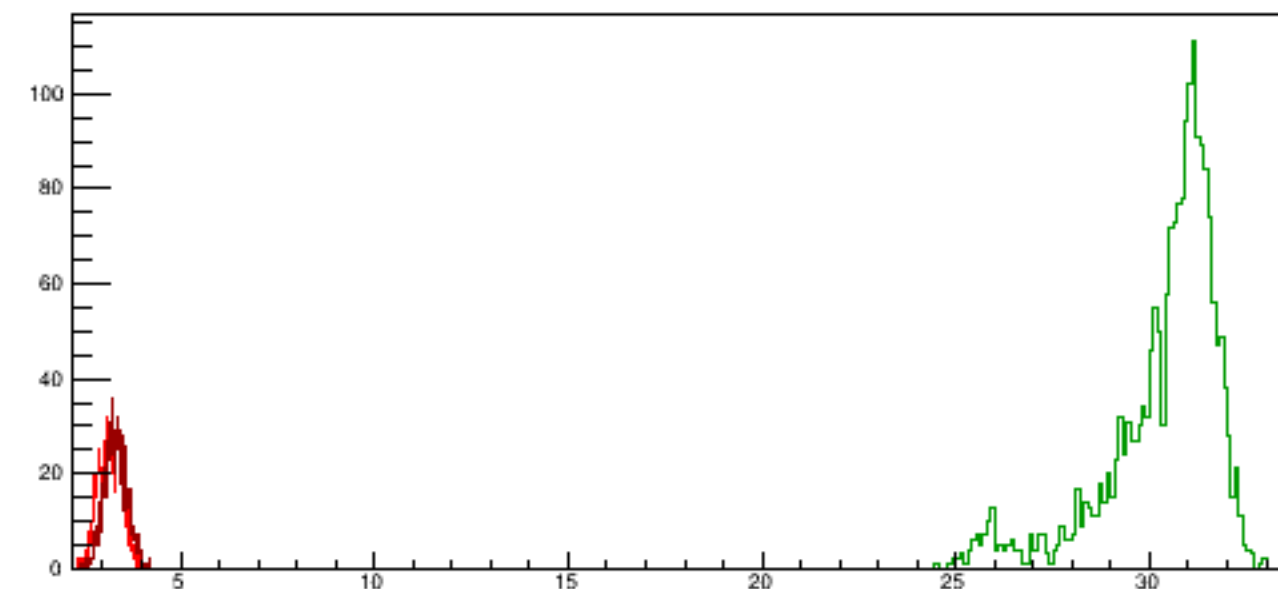
Std Dev: 1.4762 +/- 0.0232

Entries: 1026

Mean: 3.3181 +/- 0.0088

Std Dev: 0.2829 +/- 0.0062

Run 5317 quartetwise, Sums



## Cycle 7, Asyms

Entries: 1023

Mean: 0.0001 +/- 0.0003

Std Dev: 0.0097 +/- 0.0002

Entries: 2029

Mean: -0.0311 +/- 0.0004

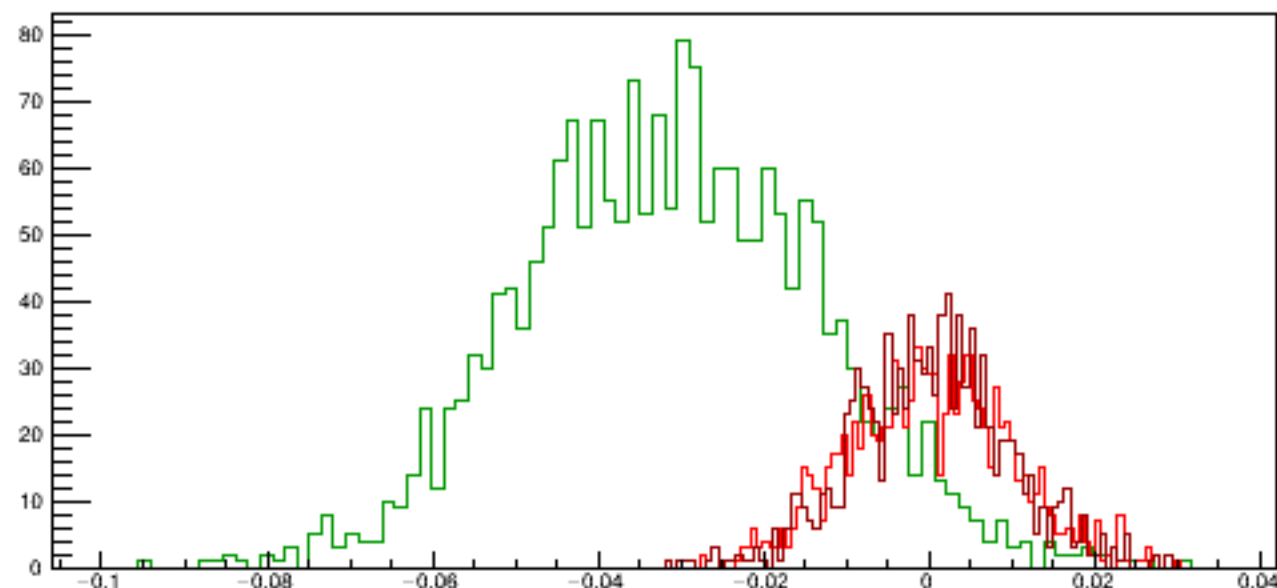
Std Dev: 0.0179 +/- 0.0003

Entries: 1026

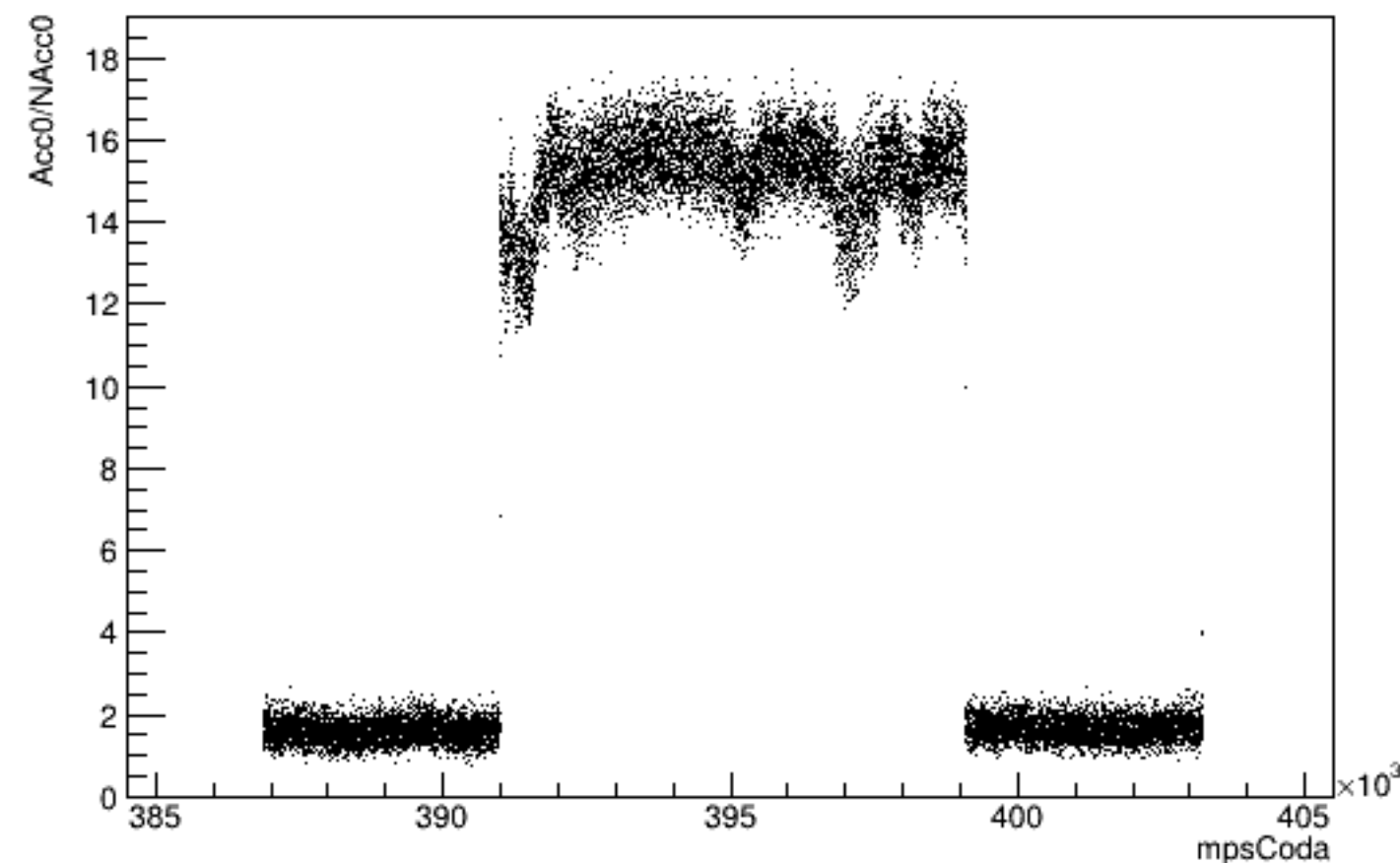
Mean: 0.0001 +/- 0.0003

Std Dev: 0.0094 +/- 0.0002

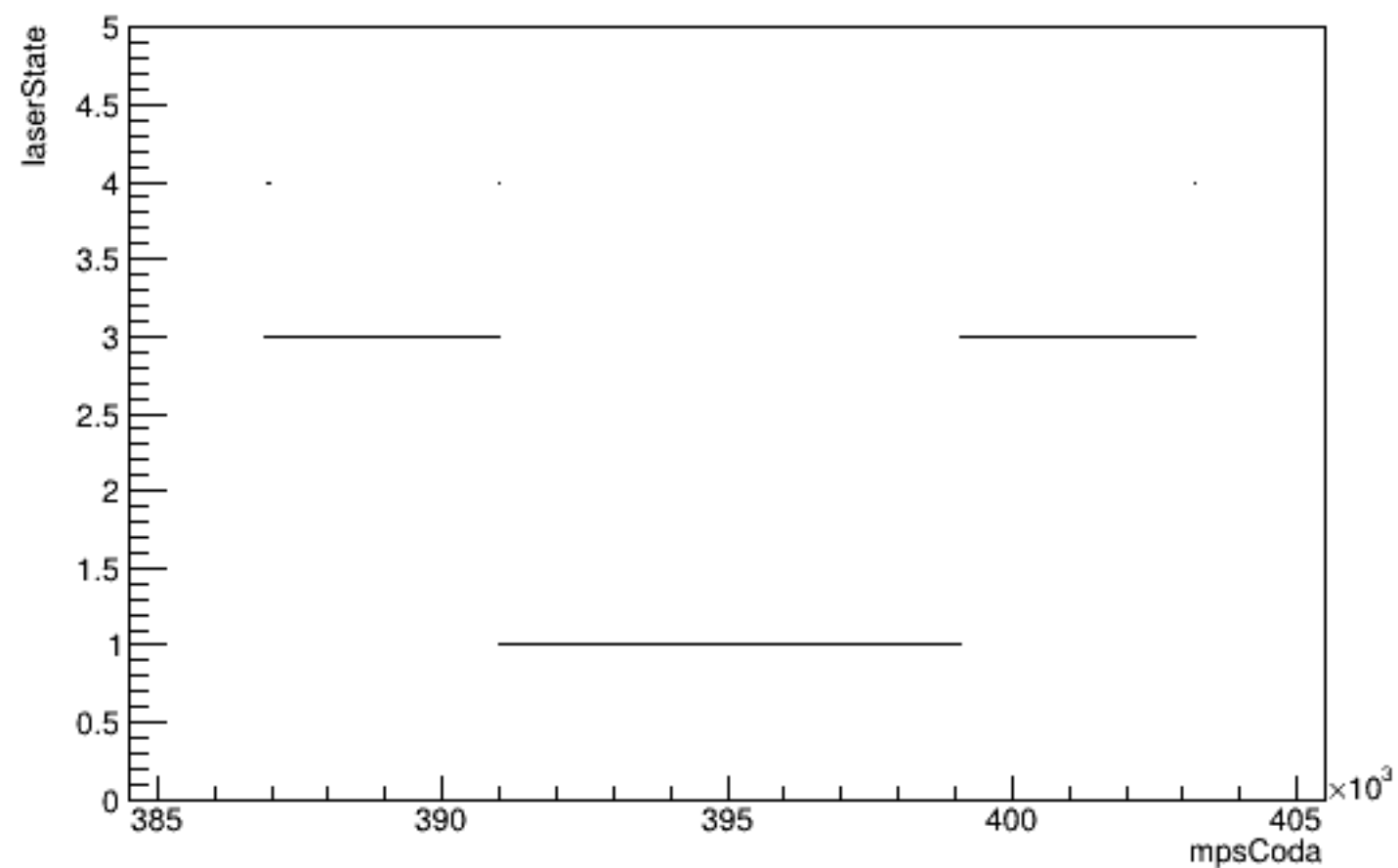
Run 5317 quartetwise, Asyms



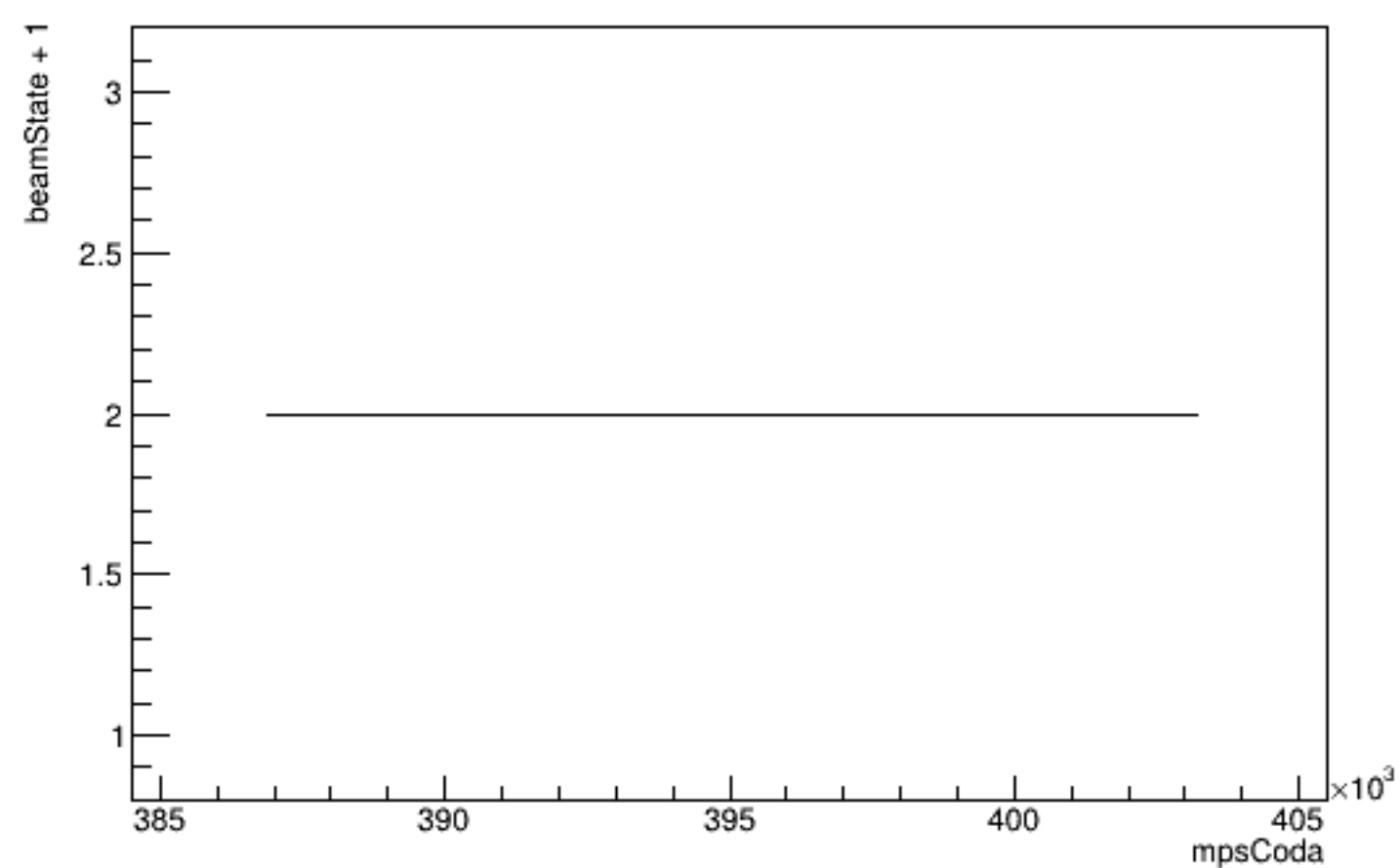
Acc0/NAcc0:mpsCoda (mpsCoda>=386880 && mpsCoda<=403215 && beamState==1)



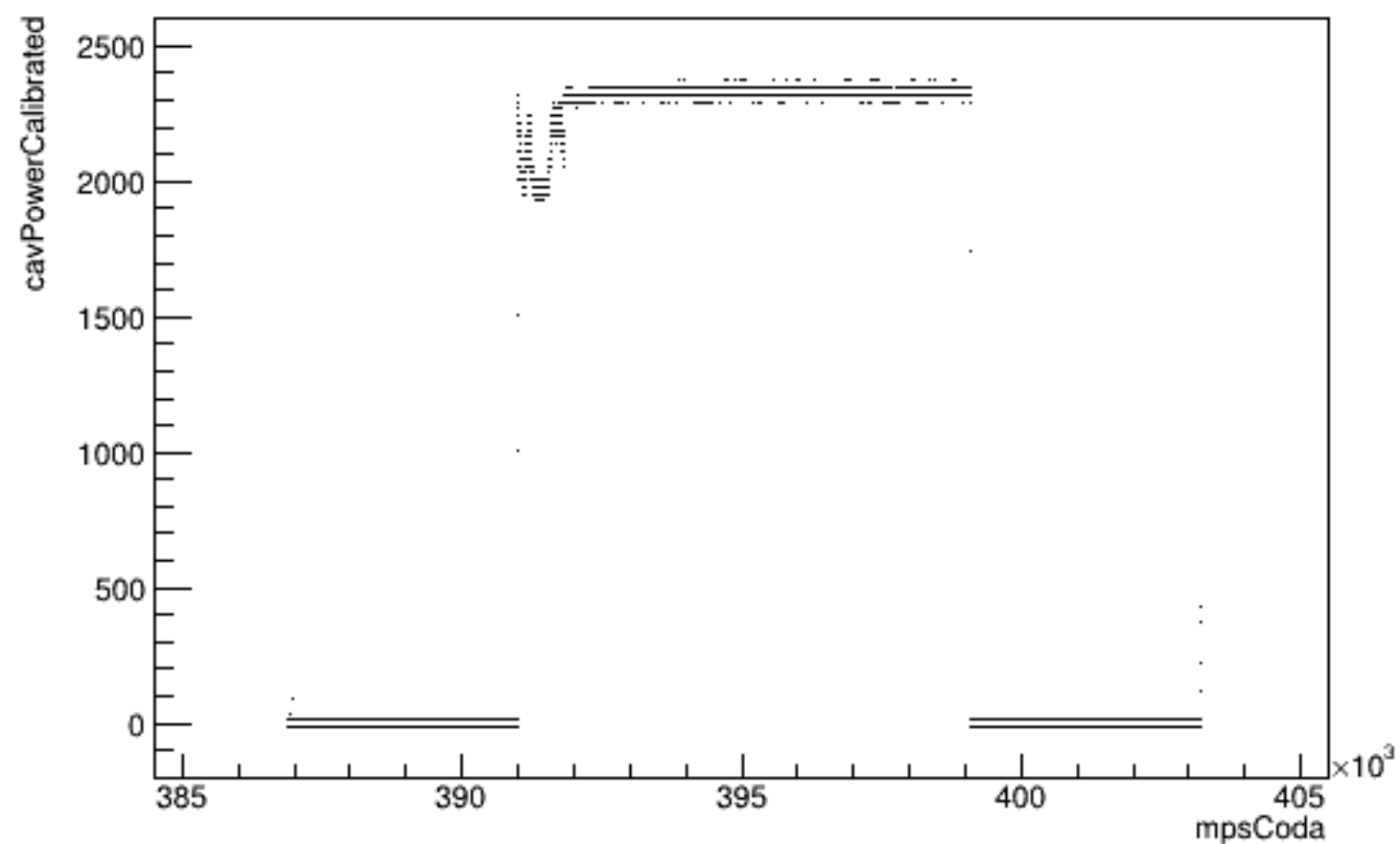
laserState:mpsCoda {mpsCoda&gt;=386880 &amp;&amp; mpsCoda&lt;=403215}



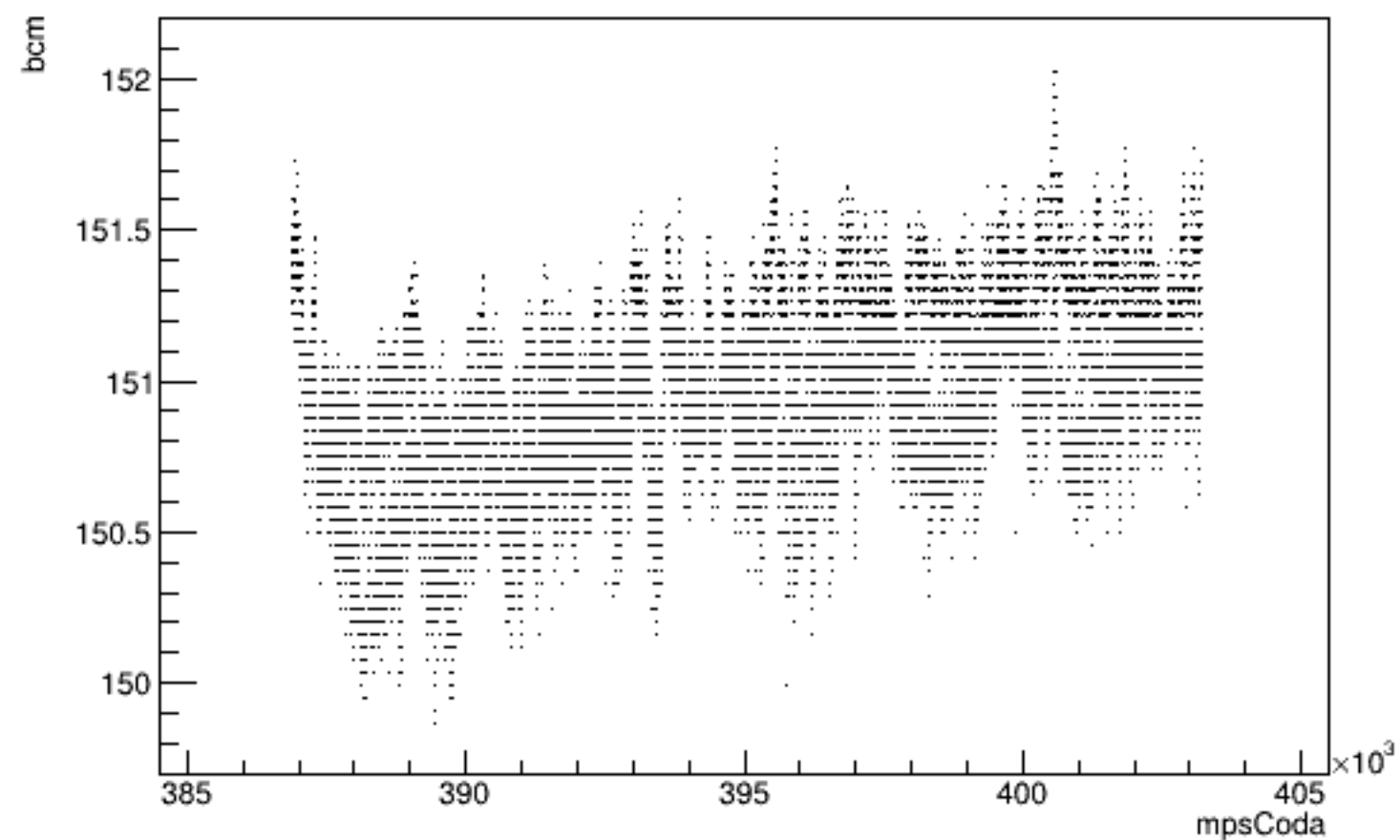
beamState + 1:mpsCoda {mpsCoda&gt;=386880 &amp;&amp; mpsCoda&lt;=403215}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=386880 &amp;&amp; mpsCoda&lt;=403215}



bcm:mpsCoda {mpsCoda&gt;=386880 &amp;&amp; mpsCoda&lt;=403215}



## Cycle 8, Diffs

Entries: 1026

Mean: 0.0030 +/- 0.0079

Std Dev: 0.2546 +/- 0.0056

Entries: 2052

Mean: -0.8543 +/- 0.0108

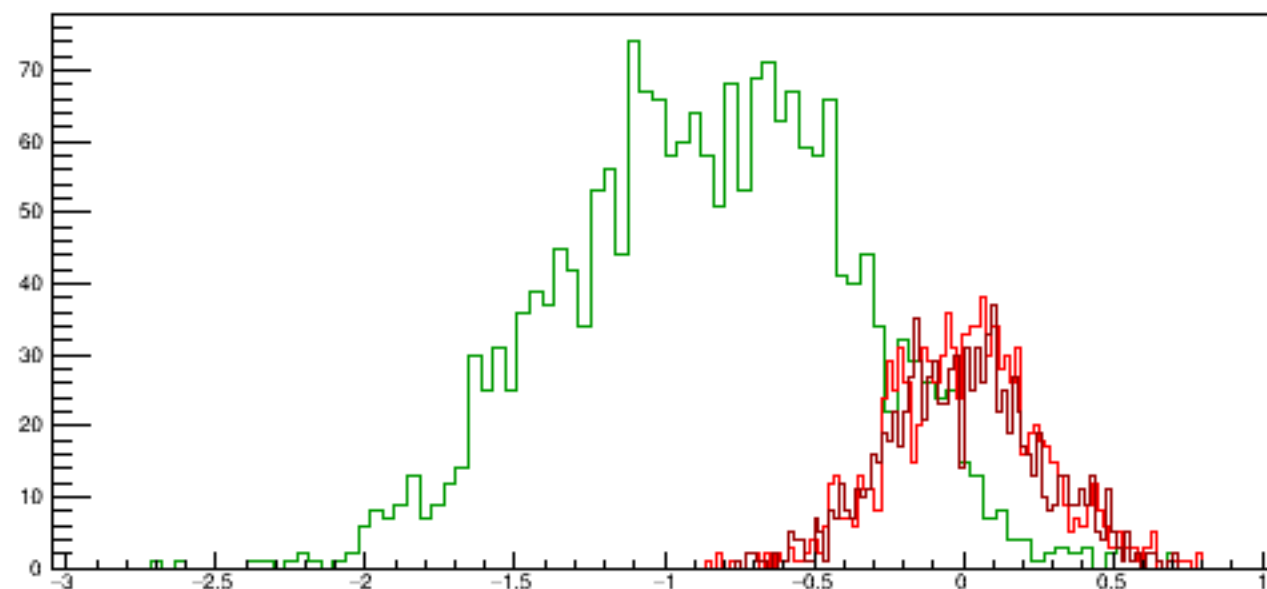
Std Dev: 0.4886 +/- 0.0076

Entries: 1039

Mean: -0.0037 +/- 0.0079

Std Dev: 0.2547 +/- 0.0056

Run 5317 quartetwise, Diffs



## Cycle 8, Sums

Entries: 1026

Mean: 3.3181 +/- 0.0088

Std Dev: 0.2829 +/- 0.0062

Entries: 2052

Mean: 30.4096 +/- 0.0388

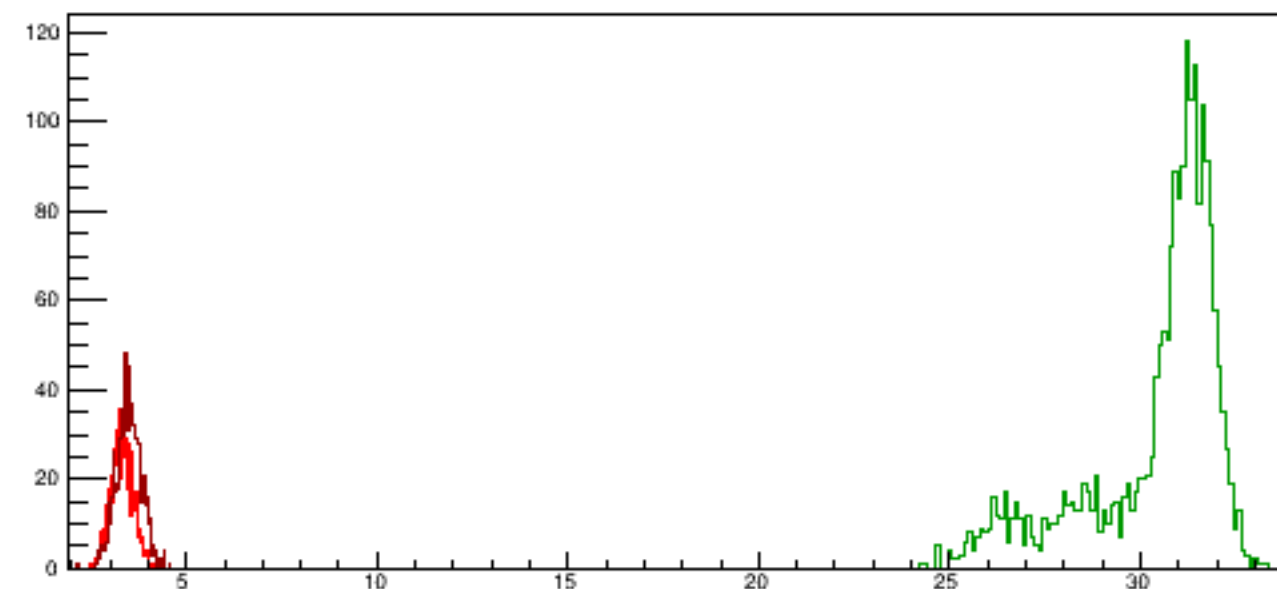
Std Dev: 1.7571 +/- 0.0274

Entries: 1039

Mean: 3.4996 +/- 0.0099

Std Dev: 0.3191 +/- 0.0070

Run 5317 quartetwise, Sums



## Cycle 8, Asyms

Entries: 1026

Mean: 0.0001 +/- 0.0003

Std Dev: 0.0094 +/- 0.0002

Entries: 2052

Mean: -0.0317 +/- 0.0004

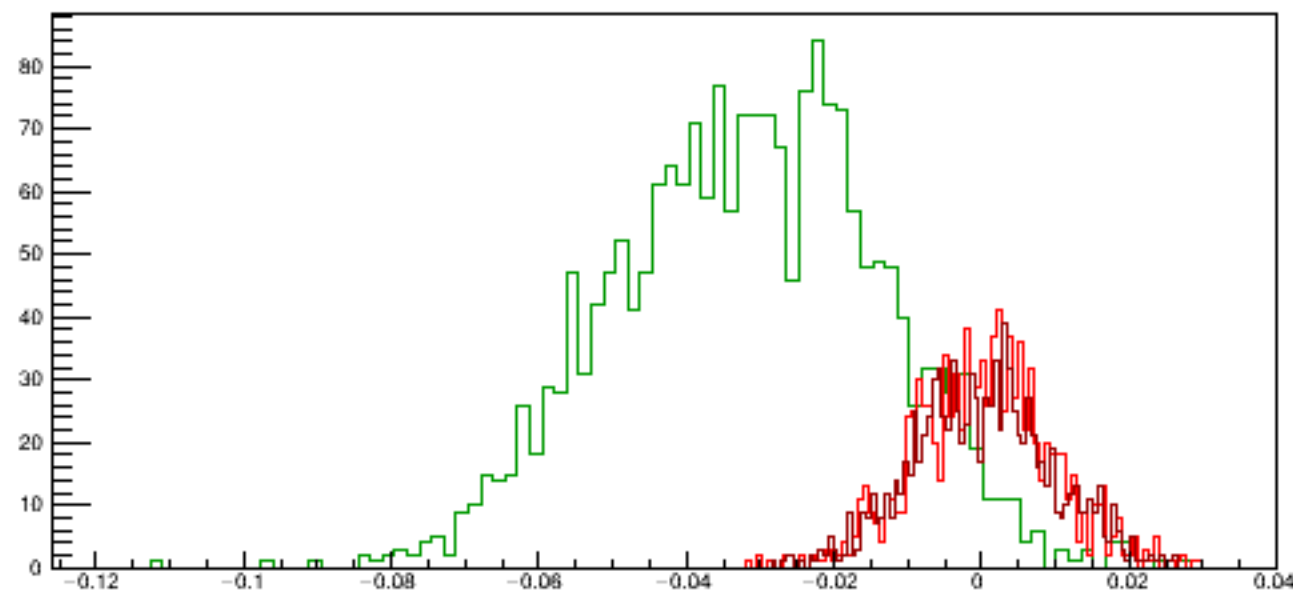
Std Dev: 0.0182 +/- 0.0003

Entries: 1039

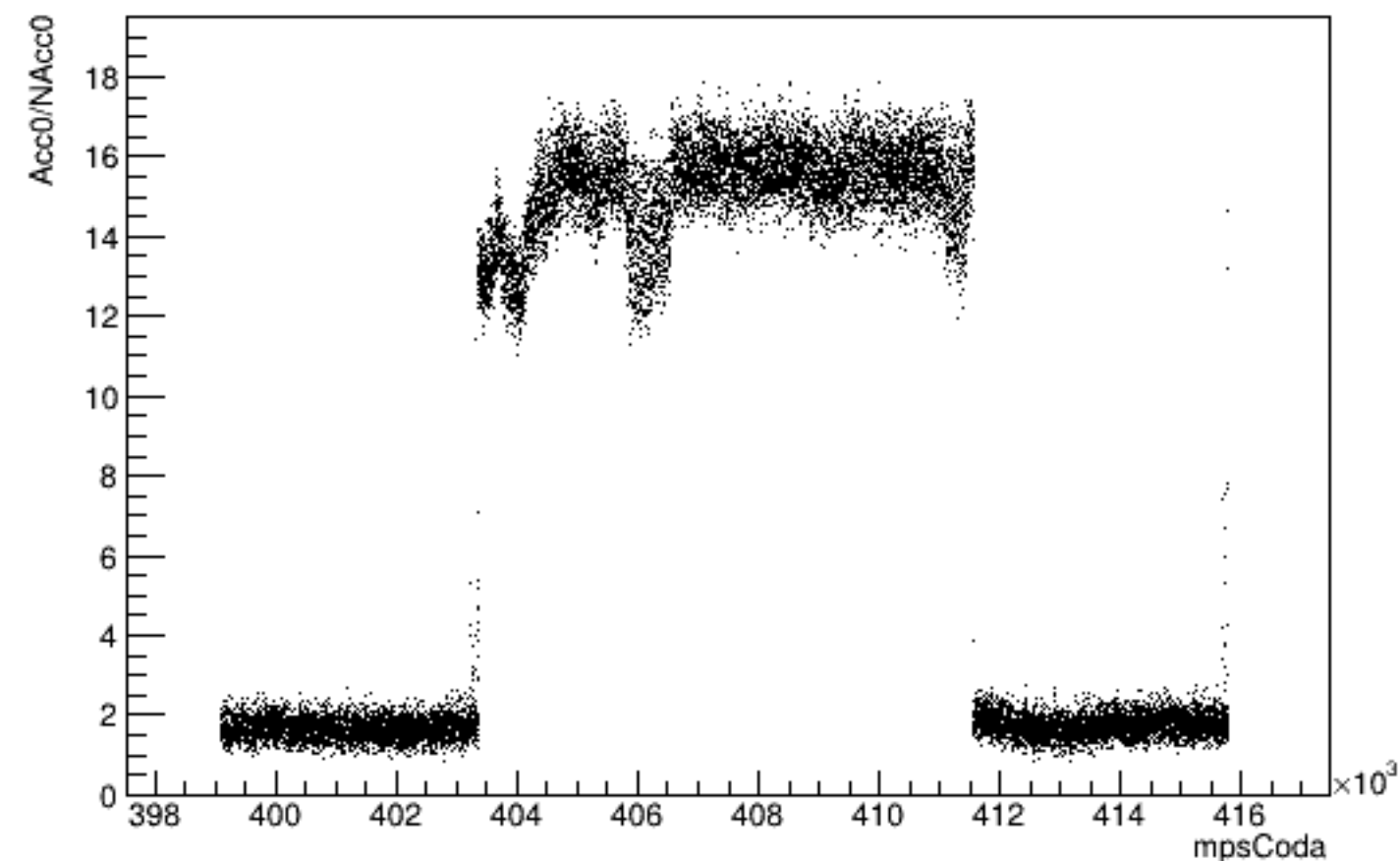
Mean: -0.0001 +/- 0.0003

Std Dev: 0.0094 +/- 0.0002

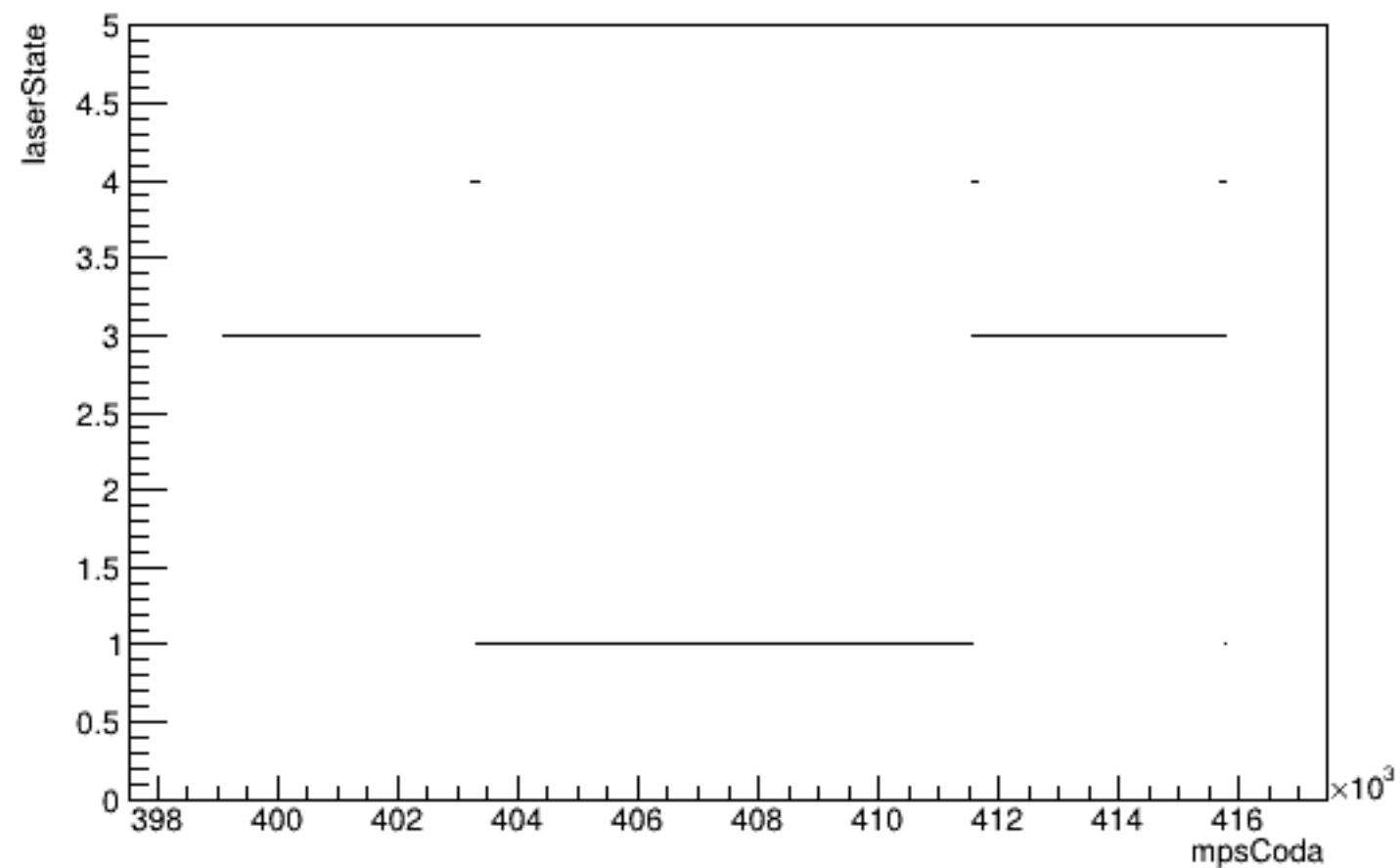
Run 5317 quartetwise, Asyms



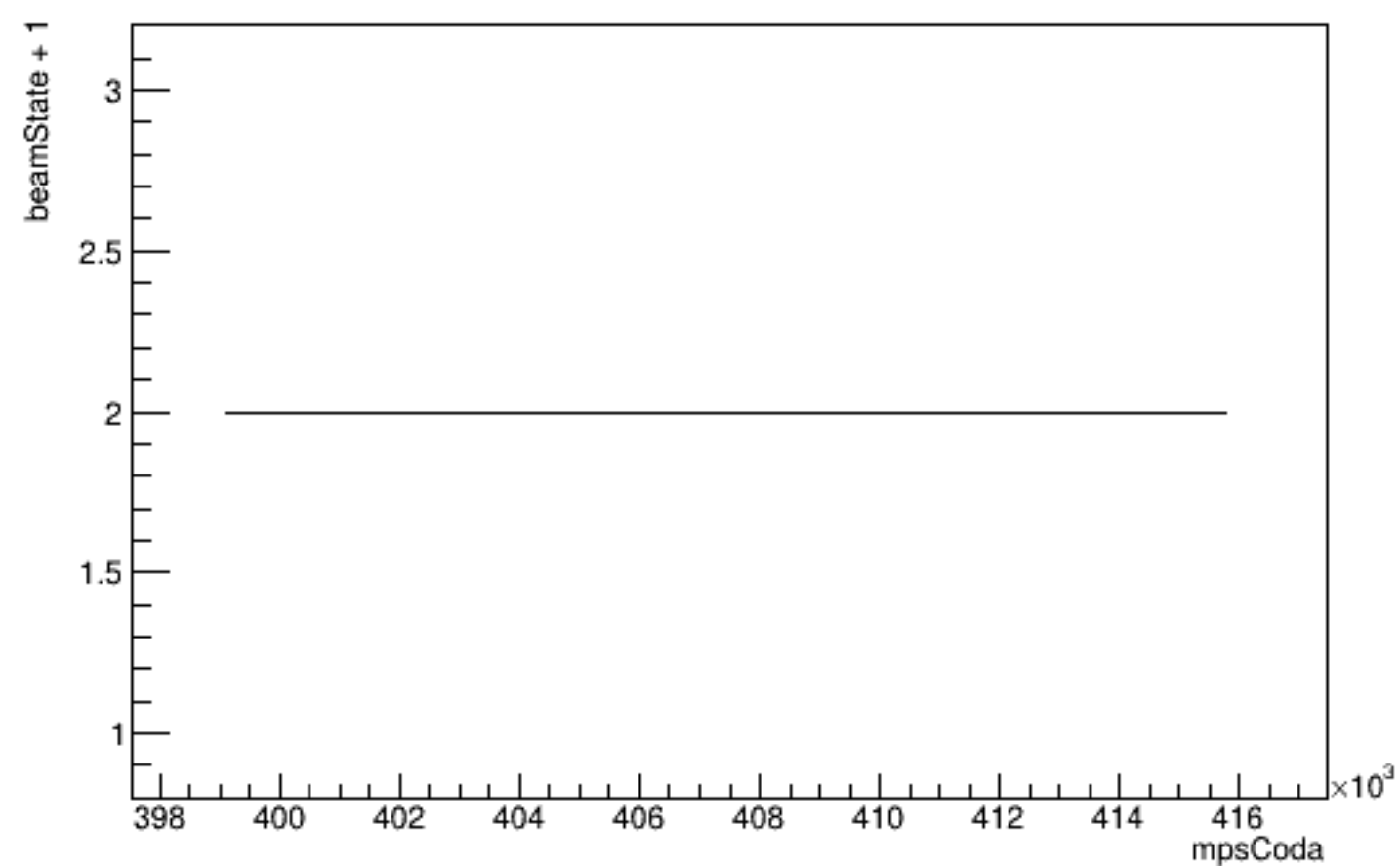
Acc0/NAcc0:mpsCoda (mpsCoda>=399104 && mpsCoda<=415783 && beamState==1)



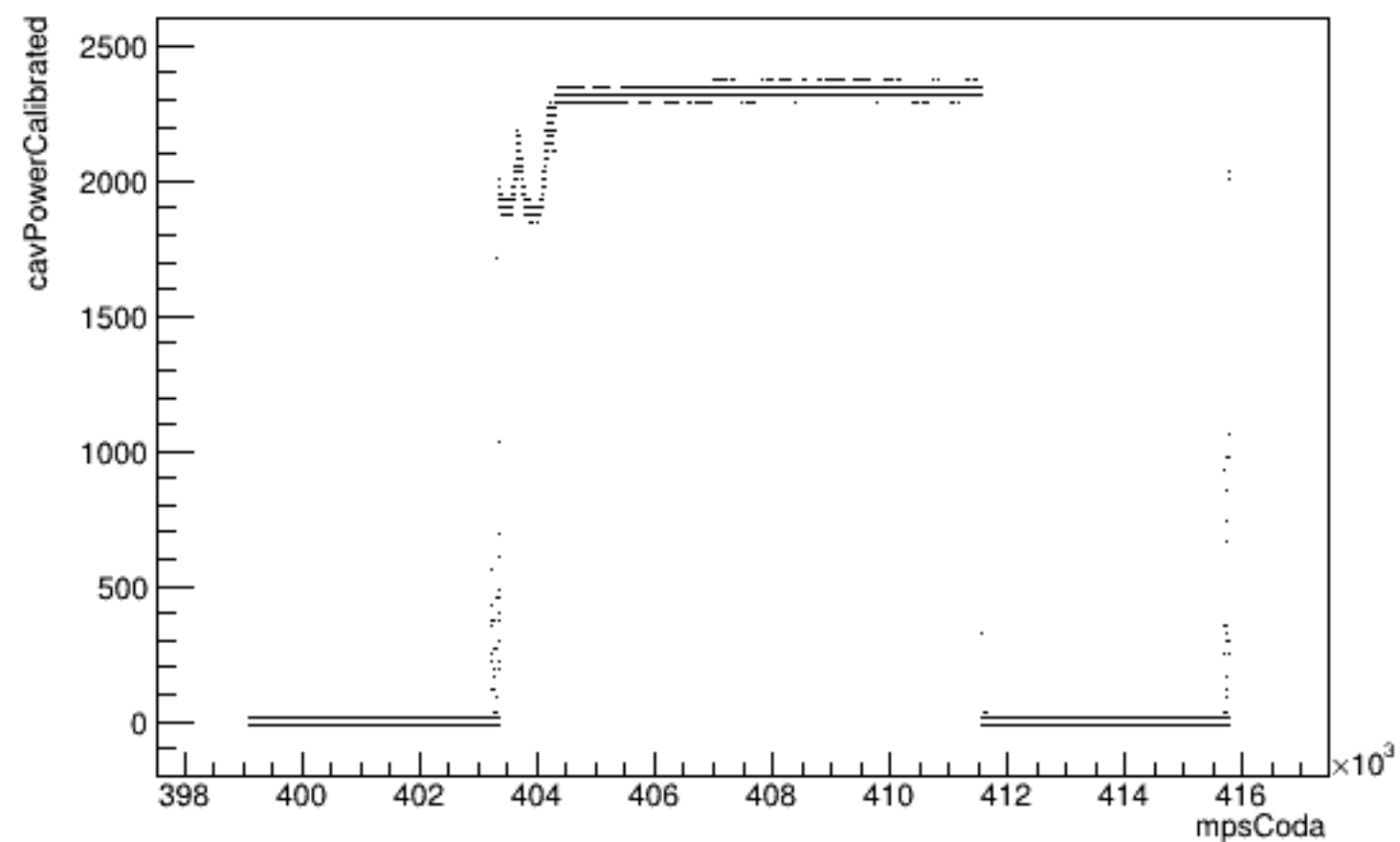
laserState:mpsCoda {mpsCoda&gt;=399104 &amp;&amp; mpsCoda&lt;=415783}



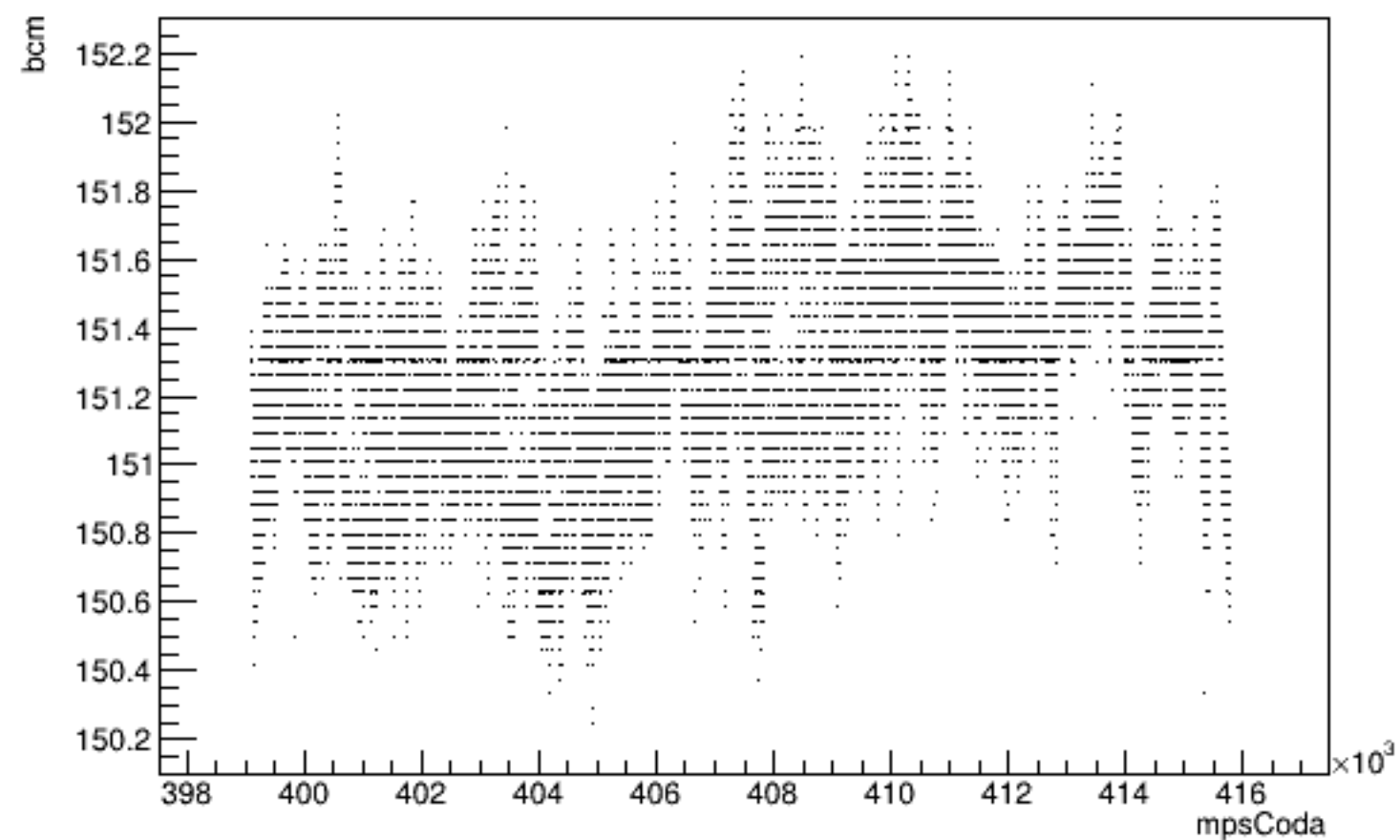
beamState + 1:mpsCoda {mpsCoda&gt;=399104 &amp;&amp; mpsCoda&lt;=415783}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=399104 &amp;&amp; mpsCoda&lt;=415783}



bcm:mpsCoda {mpsCoda&gt;=399104 &amp;&amp; mpsCoda&lt;=415783}



## Cycle 9, Diffs

Entries: 1023

Mean: -0.0033 +/- 0.0081

Std Dev: 0.2579 +/- 0.0057

Entries: 1961

Mean: -0.8528 +/- 0.0112

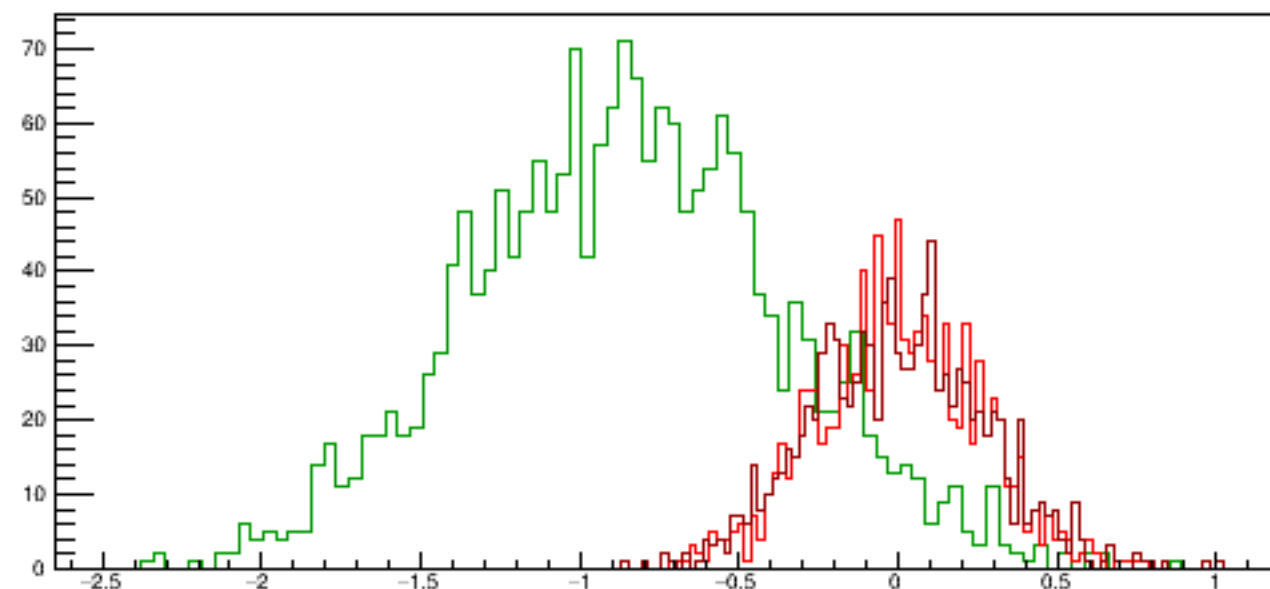
Std Dev: 0.4967 +/- 0.0079

Entries: 1035

Mean: -0.0010 +/- 0.0085

Std Dev: 0.2726 +/- 0.0060

Run 5317 quartetwise, Diffs



## Cycle 9, Sums

Entries: 1023

Mean: 3.4162 +/- 0.0091

Std Dev: 0.2903 +/- 0.0064

Entries: 1961

Mean: 30.7585 +/- 0.0256

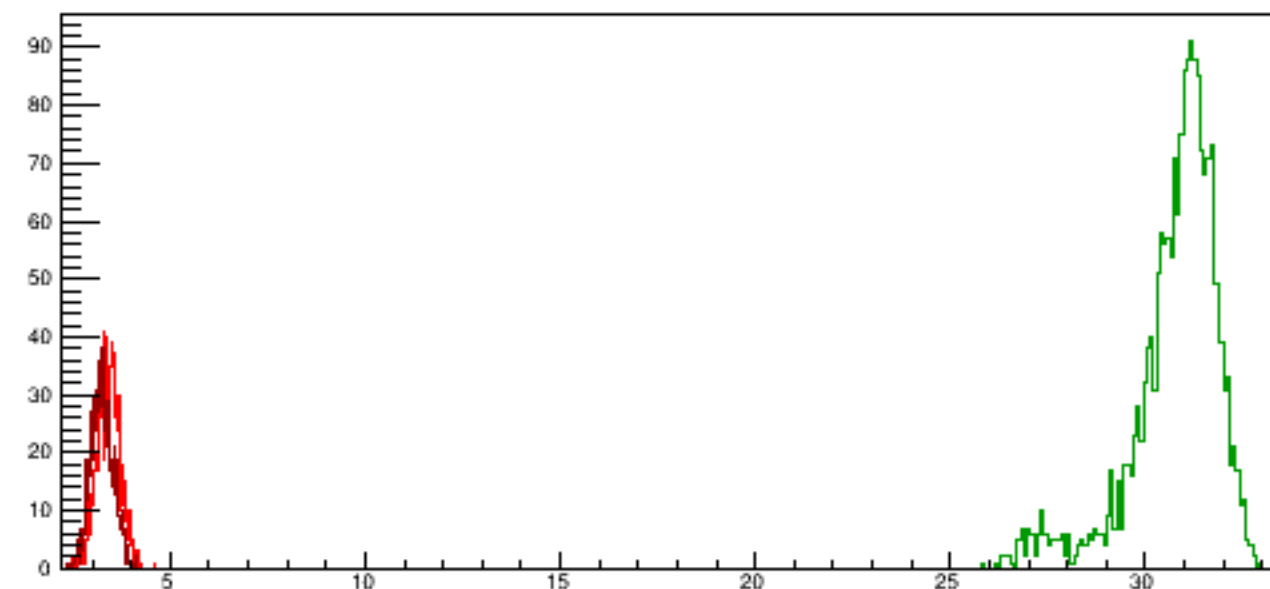
Std Dev: 1.1347 +/- 0.0181

Entries: 1035

Mean: 3.2463 +/- 0.0089

Std Dev: 0.2862 +/- 0.0063

Run 5317 quartetwise, Sums



## Cycle 9, Asyms

Entries: 1023

Mean: -0.0001 +/- 0.0003

Std Dev: 0.0094 +/- 0.0002

Entries: 1961

Mean: -0.0311 +/- 0.0004

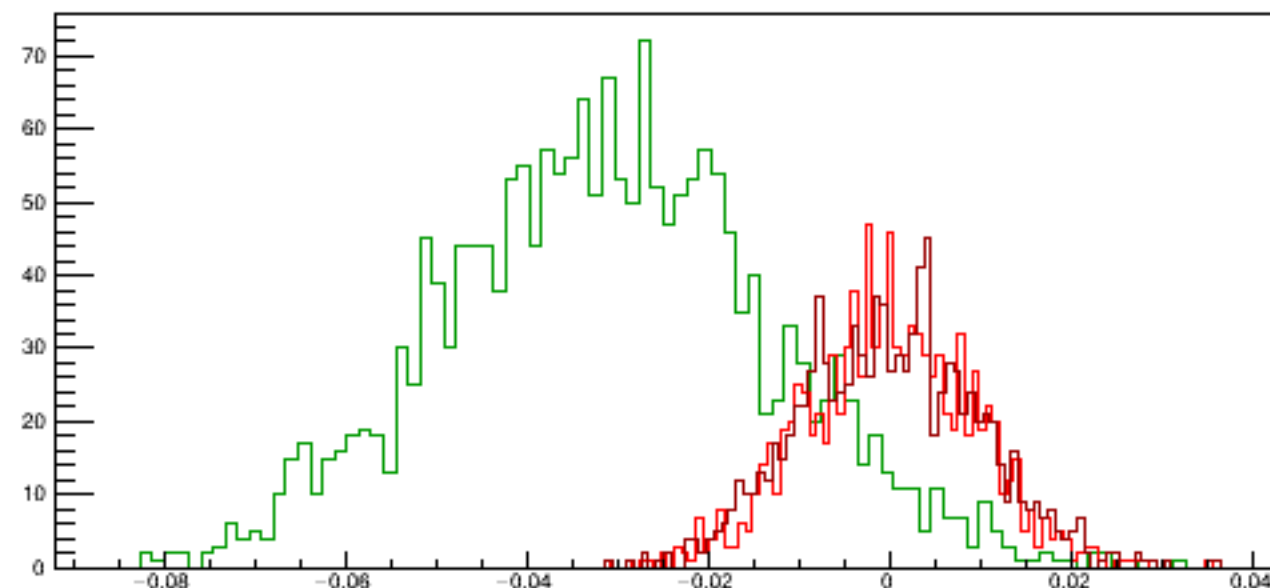
Std Dev: 0.0181 +/- 0.0003

Entries: 1035

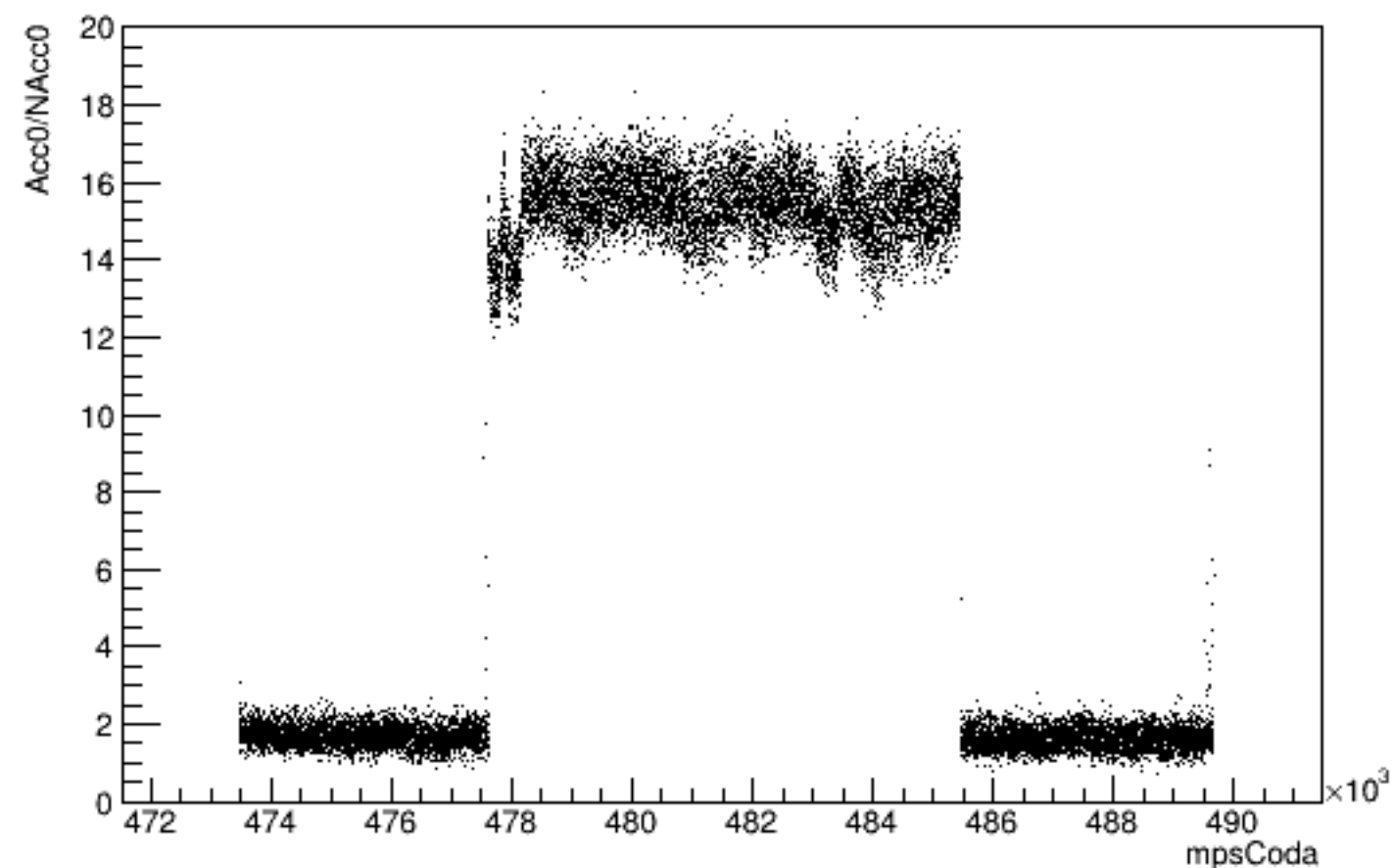
Mean: -0.0000 +/- 0.0003

Std Dev: 0.0099 +/- 0.0002

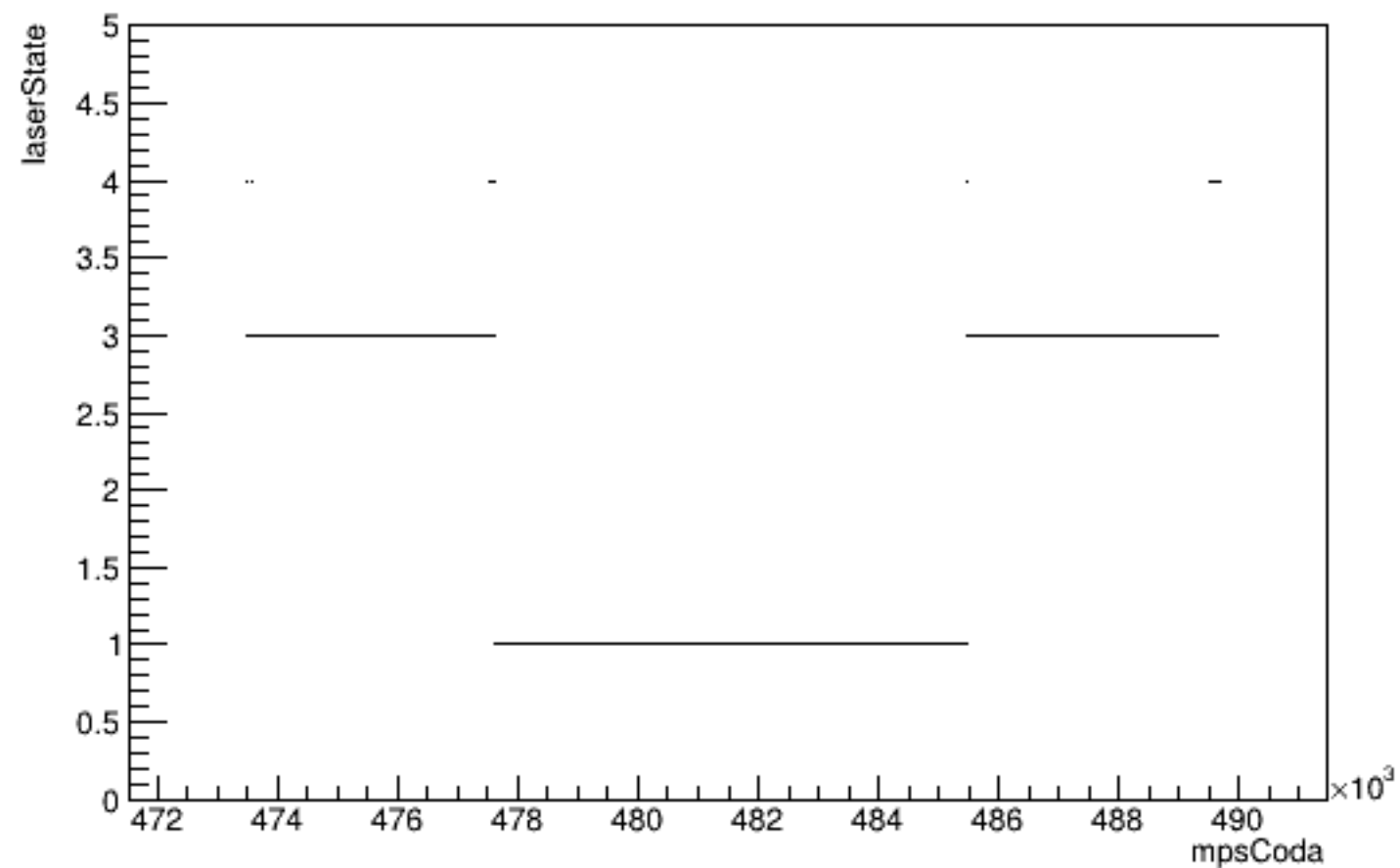
Run 5317 quartetwise, Asyms



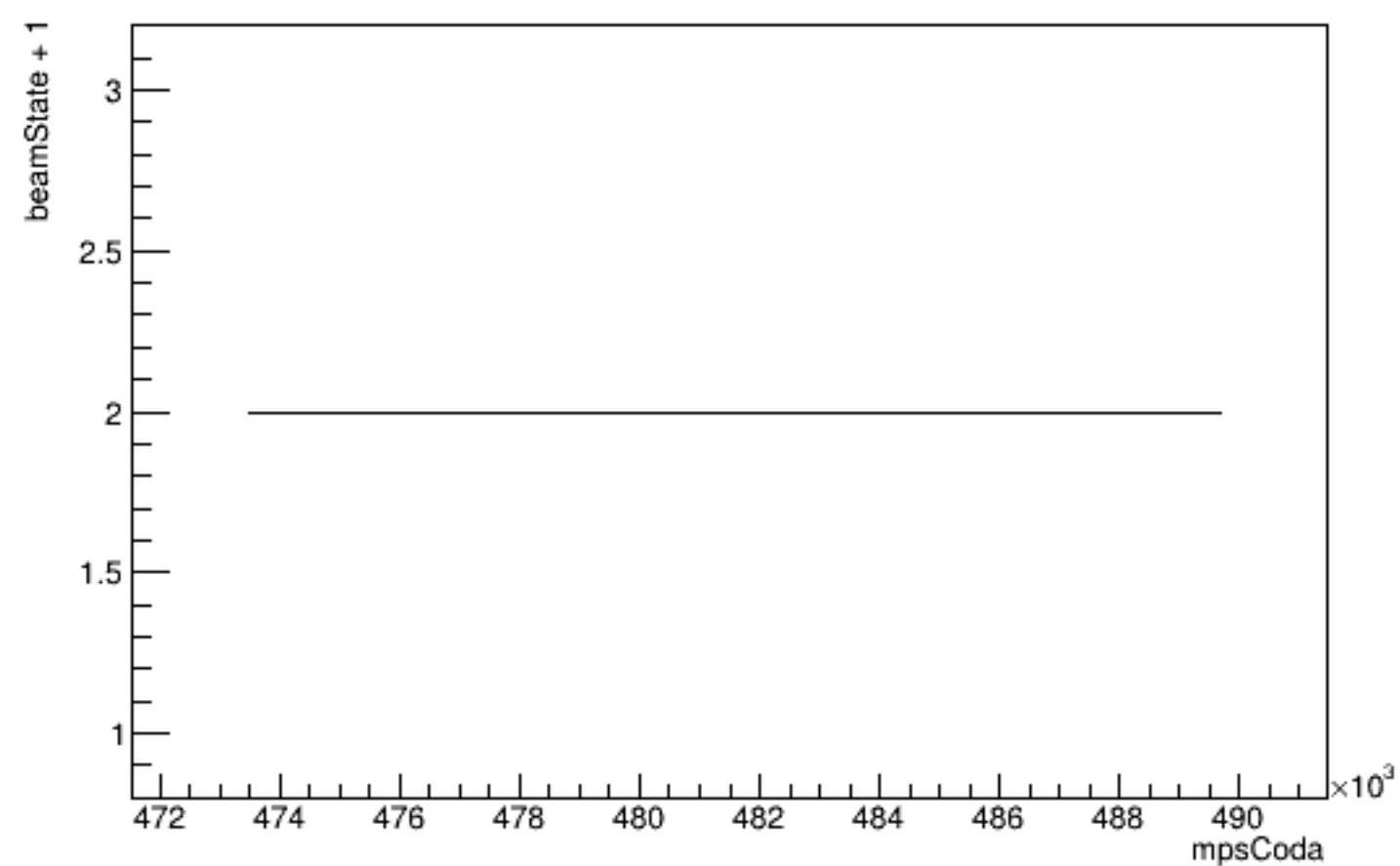
Acc0/NAcc0:mpsCoda (mpsCoda>=473476 && mpsCoda<=489667 && beamState==1)



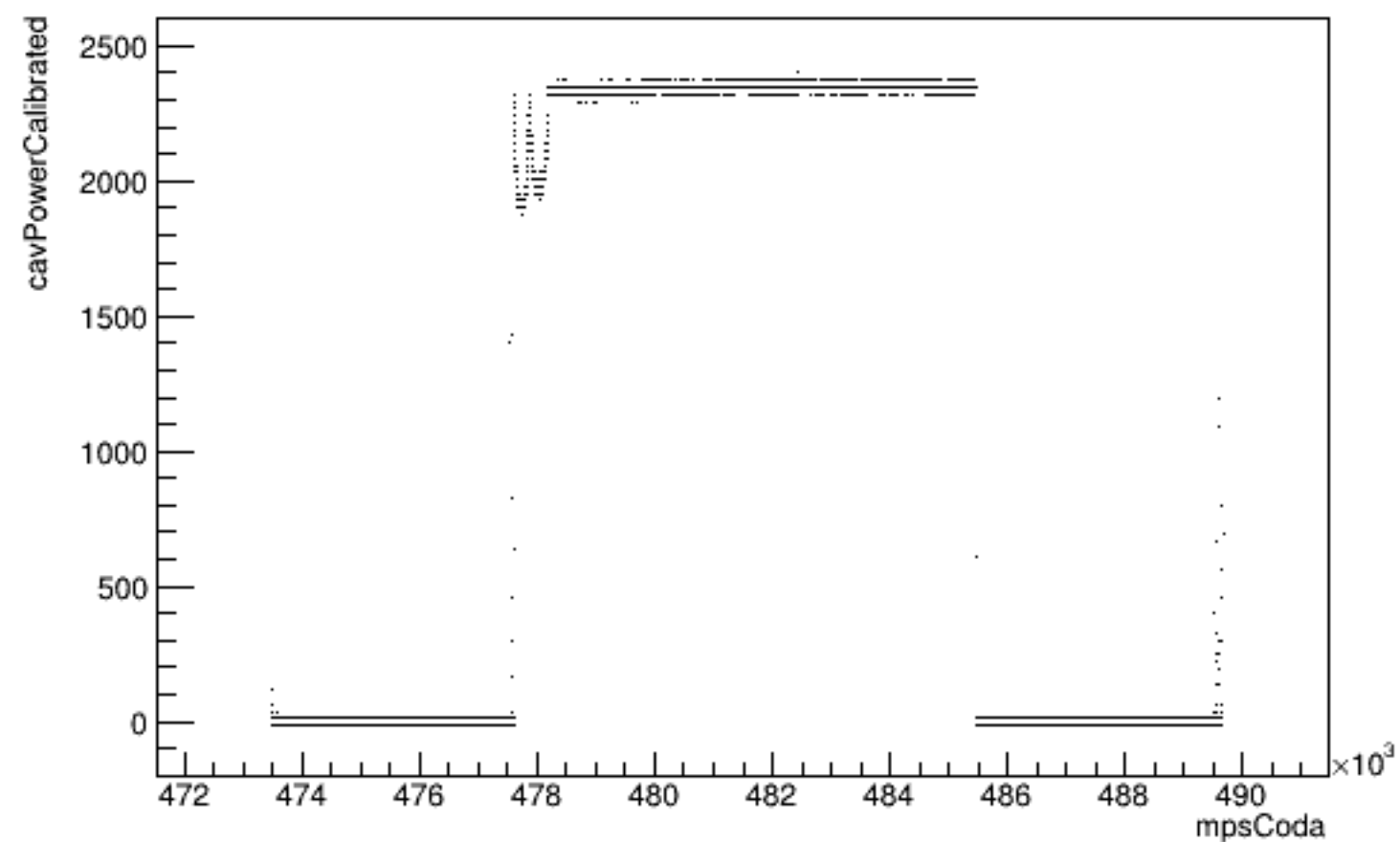
laserState:mpsCoda {mpsCoda&gt;=473476 &amp;&amp; mpsCoda&lt;=489667}



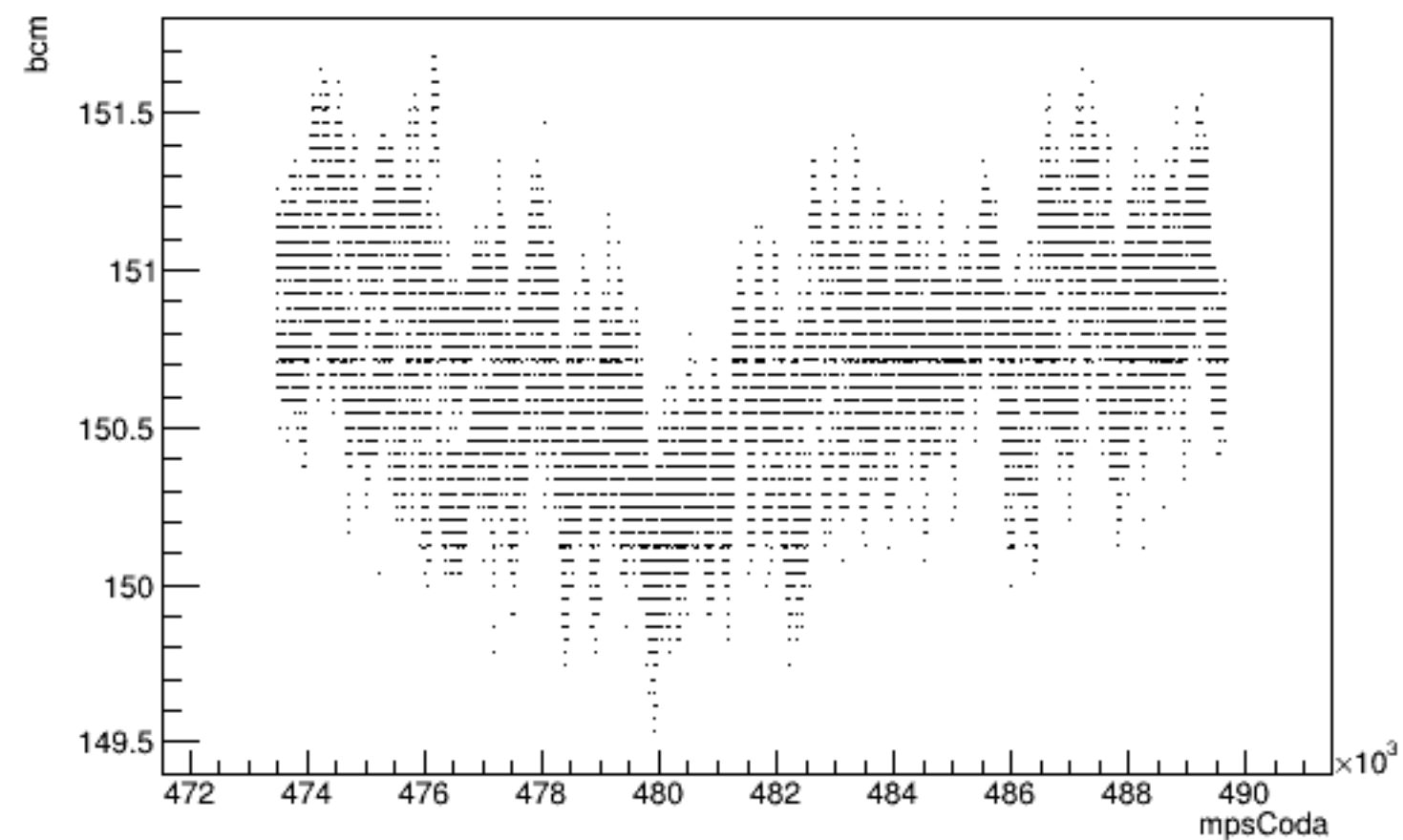
beamState + 1:mpsCoda {mpsCoda&gt;=473476 &amp;&amp; mpsCoda&lt;=489667}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=473476 &amp;&amp; mpsCoda&lt;=489667}



bcm:mpsCoda {mpsCoda&gt;=473476 &amp;&amp; mpsCoda&lt;=489667}



## Cycle 10, Diffs

Entries: 1035

Mean: -0.0010 +/- 0.0085

Std Dev: 0.2726 +/- 0.0060

Entries: 2061

Mean: -0.8576 +/- 0.0105

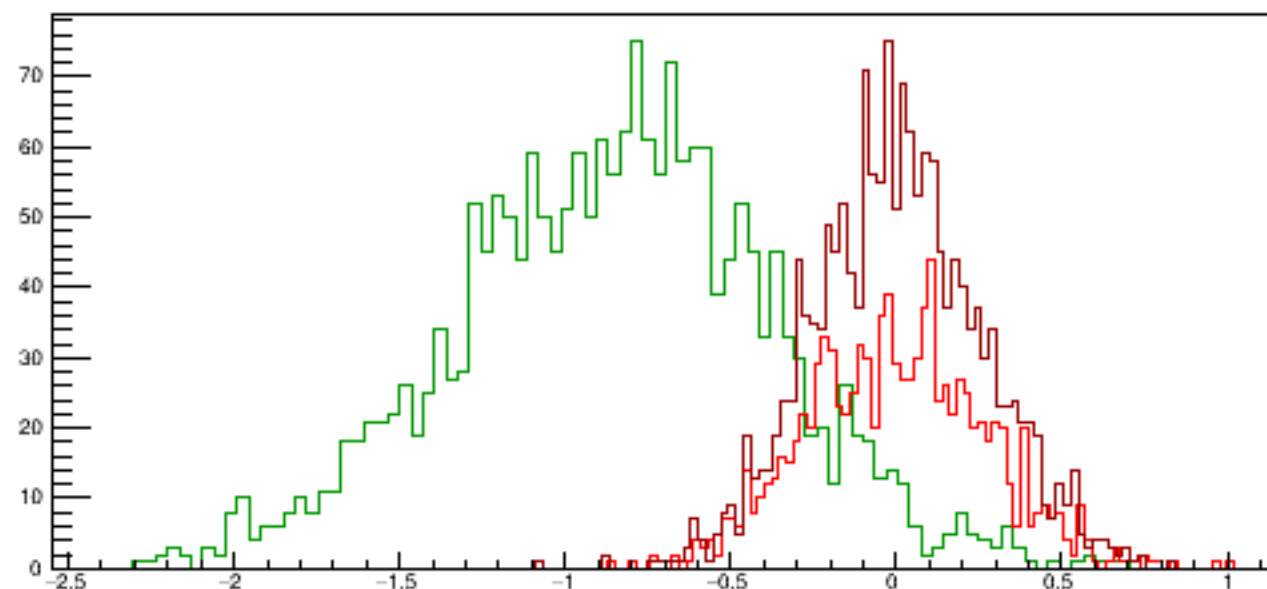
Std Dev: 0.4769 +/- 0.0074

Entries: 1671

Mean: 0.0040 +/- 0.0063

Std Dev: 0.2573 +/- 0.0045

Run 5317 quartetwise, Diffs



## Cycle 10, Sums

Entries: 1035

Mean: 3.2463 +/- 0.0089

Std Dev: 0.2862 +/- 0.0063

Entries: 2061

Mean: 30.4817 +/- 0.0335

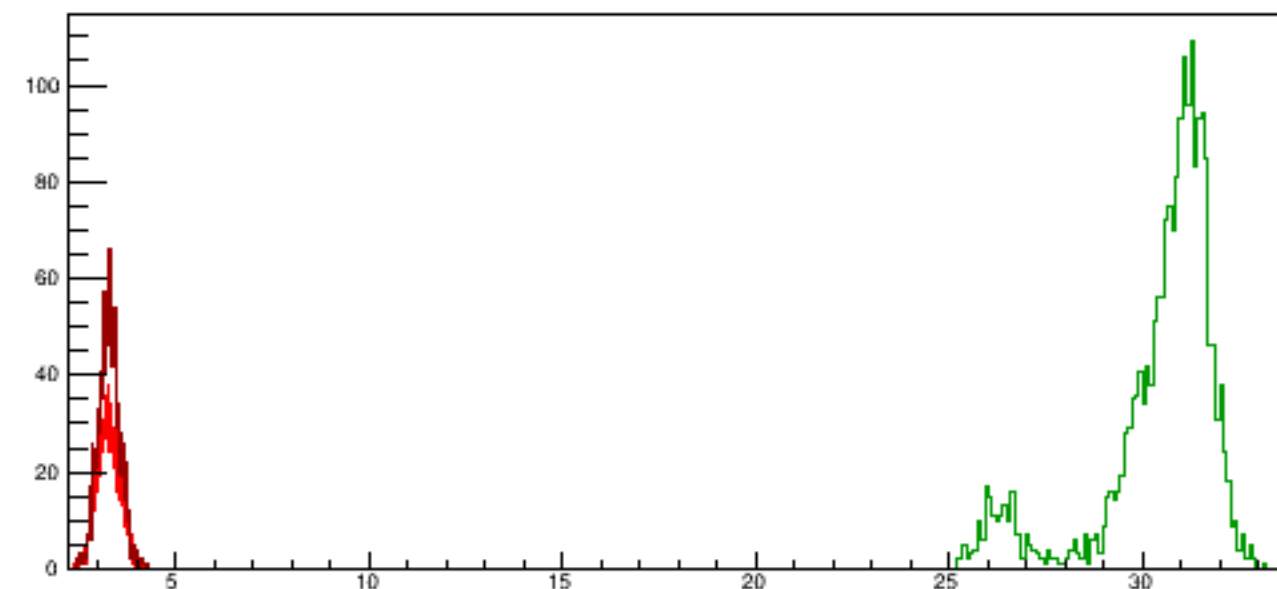
Std Dev: 1.5219 +/- 0.0237

Entries: 1671

Mean: 3.2761 +/- 0.0070

Std Dev: 0.2857 +/- 0.0049

Run 5317 quartetwise, Sums



## Cycle 10, Asyms

Entries: 1035

Mean: -0.0000 +/- 0.0003

Std Dev: 0.0100 +/- 0.0002

Entries: 2061

Mean: -0.0315 +/- 0.0004

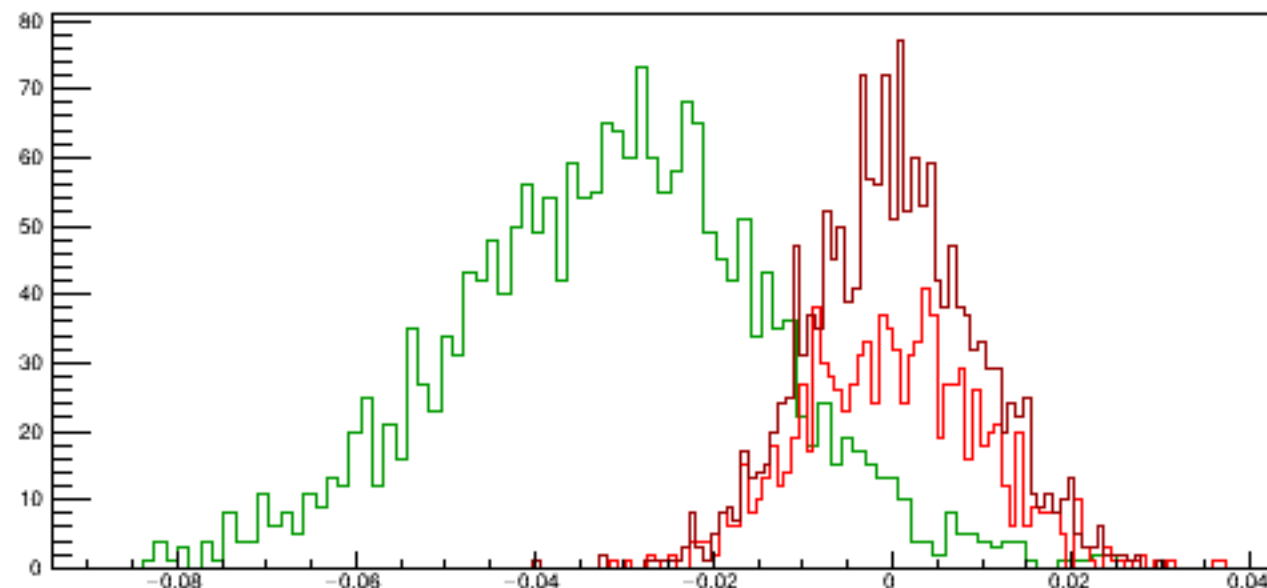
Std Dev: 0.0175 +/- 0.0003

Entries: 1671

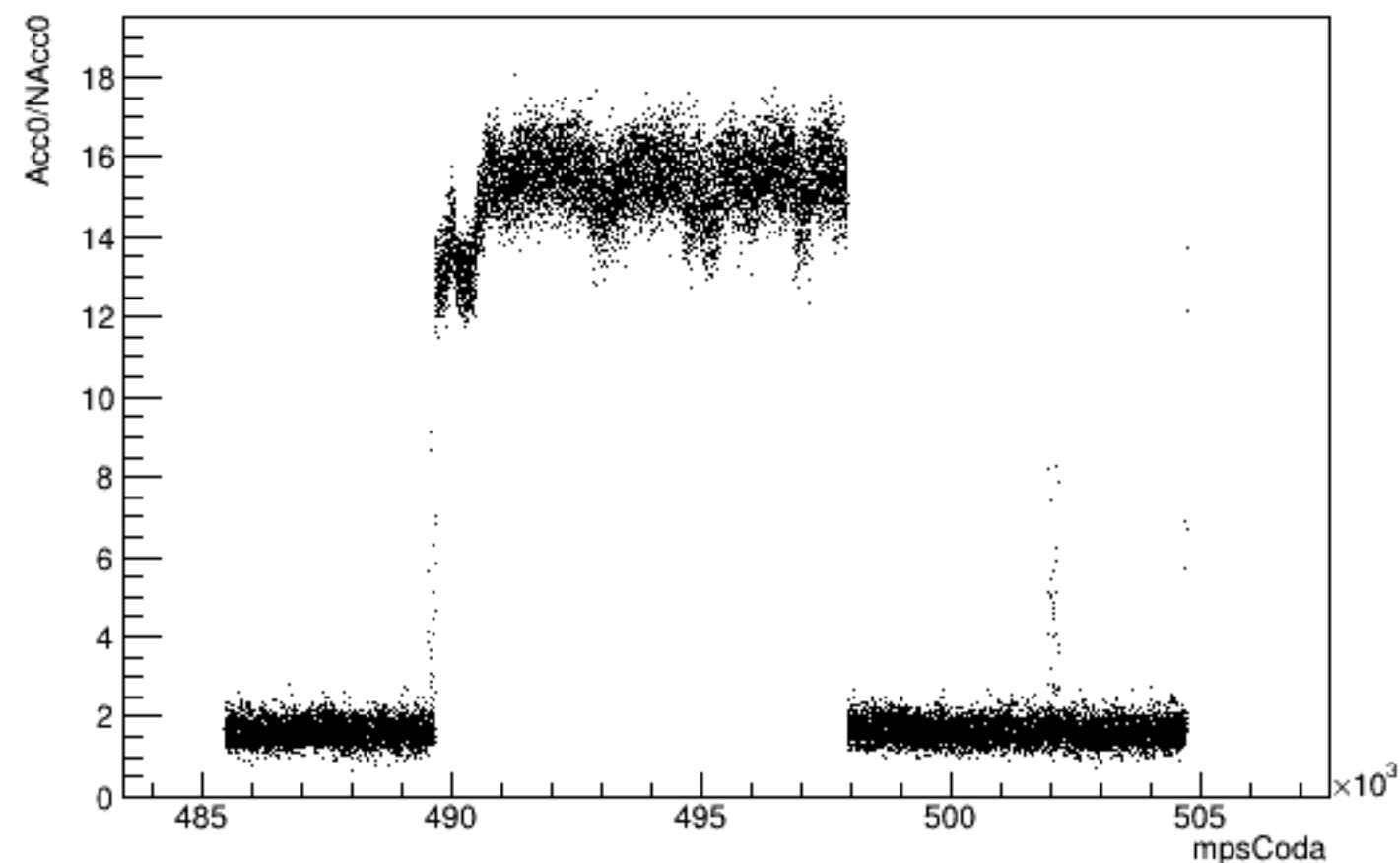
Mean: 0.0001 +/- 0.0002

Std Dev: 0.0095 +/- 0.0002

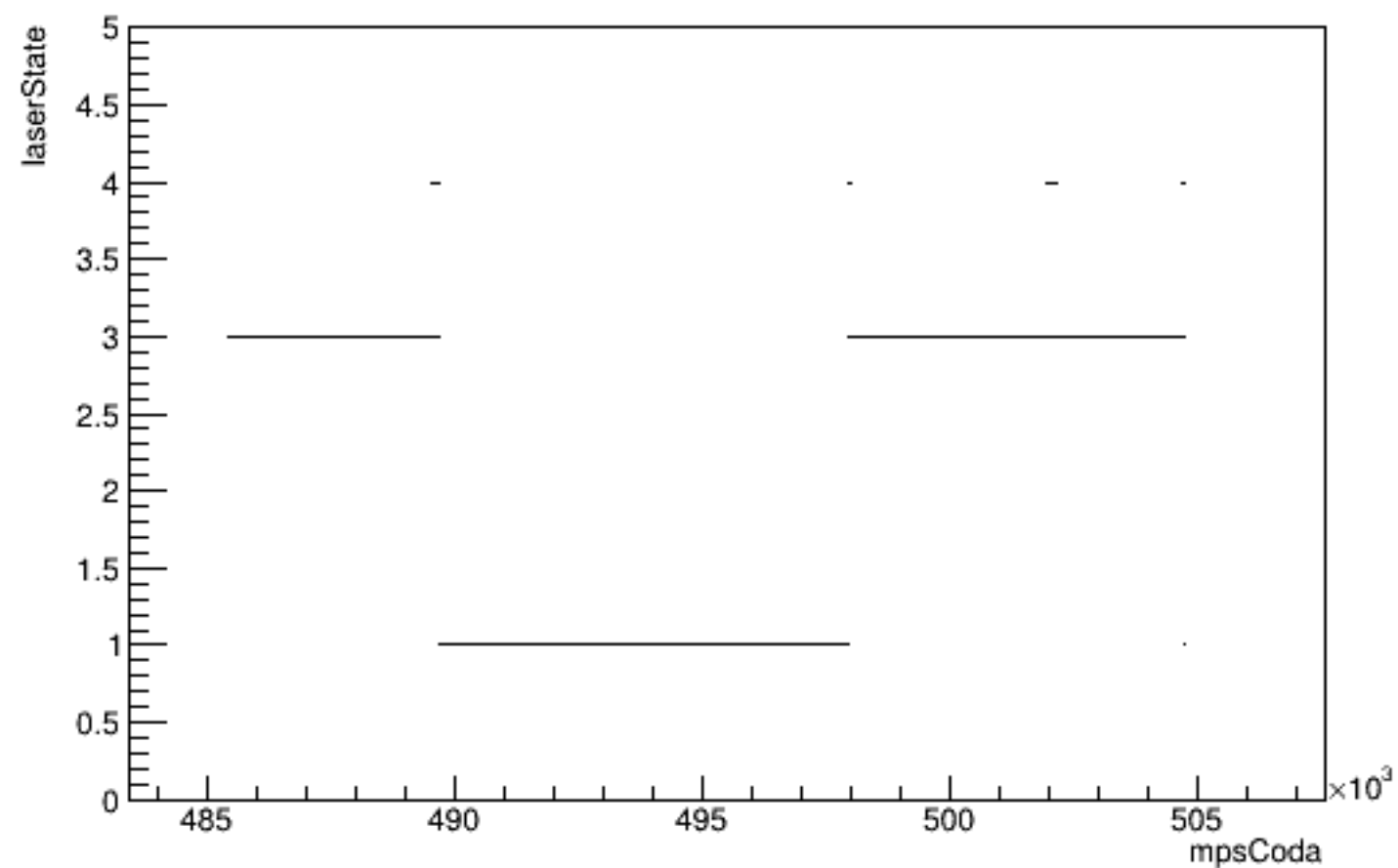
Run 5317 quartetwise, Asyms



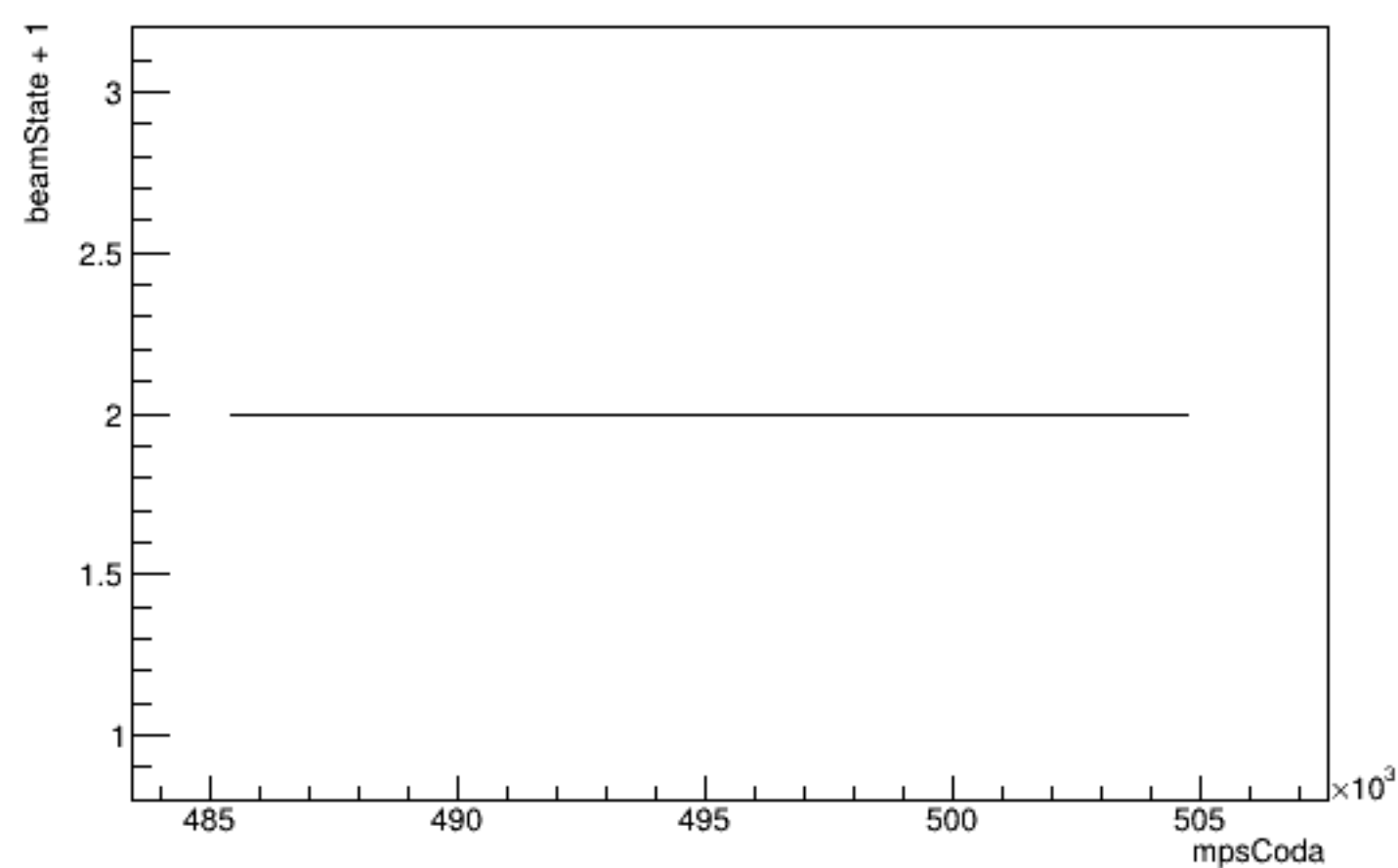
Acc0/NAcc0:mpsCoda (mpsCoda>=485456 && mpsCoda<=504711 && beamState==1)



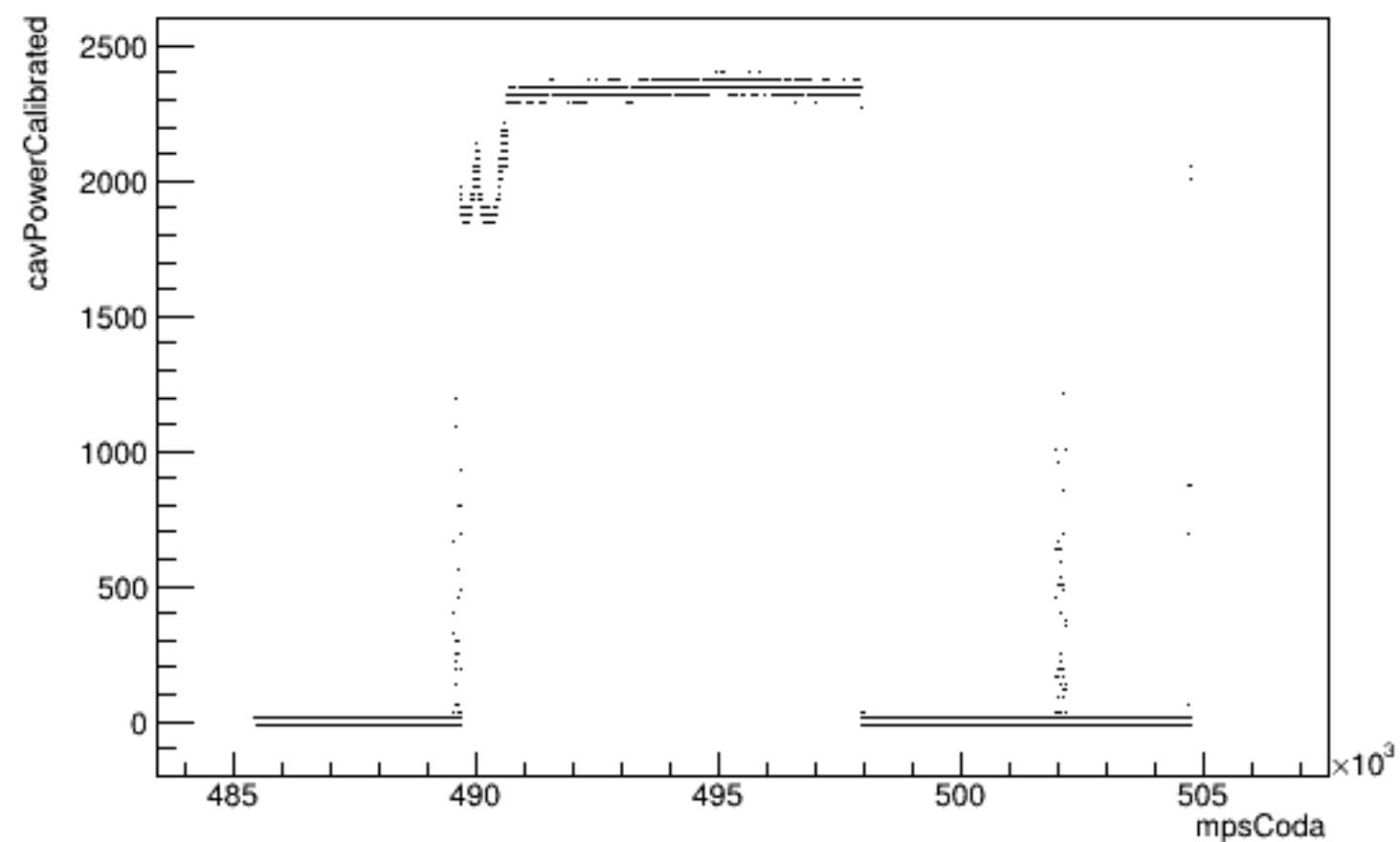
laserState:mpsCoda {mpsCoda&gt;=485456 &amp;&amp; mpsCoda&lt;=504711}



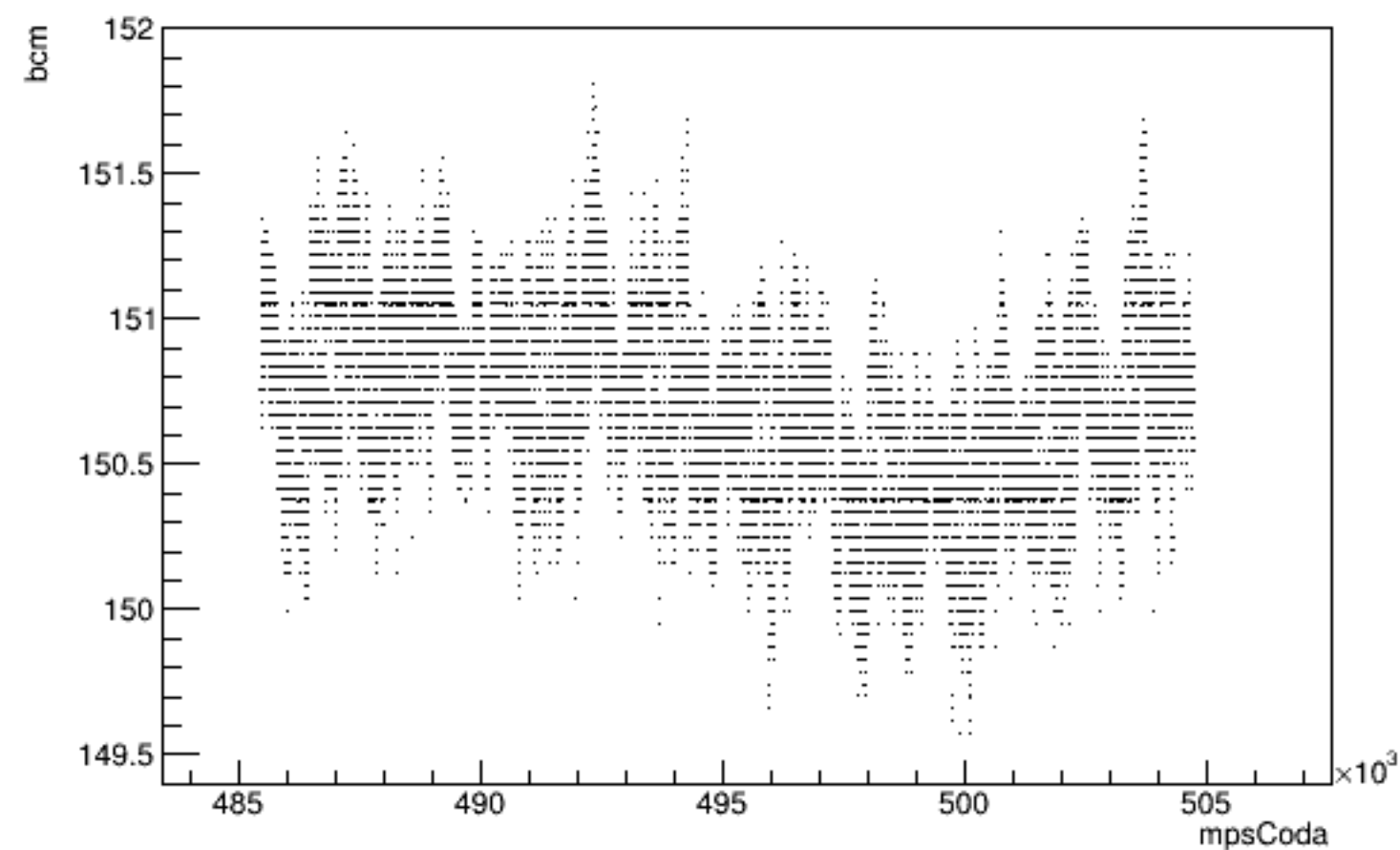
beamState + 1:mpsCoda {mpsCoda&gt;=485456 &amp;&amp; mpsCoda&lt;=504711}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=485456 &amp;&amp; mpsCoda&lt;=504711}



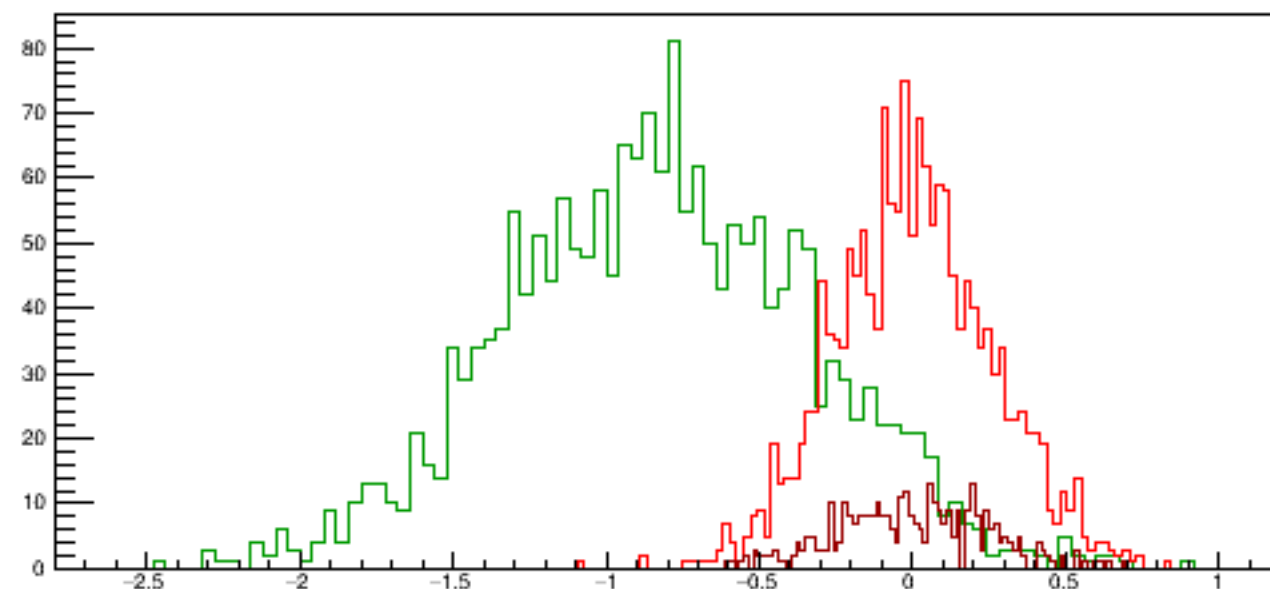
bcm:mpsCoda {mpsCoda&gt;=485456 &amp;&amp; mpsCoda&lt;=504711}



## Cycle 11, Diffs

| Entries: 1671              | Entries: 1952              | Entries: 365               |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0040 +/- 0.0063    | Mean: -0.8271 +/- 0.0113   | Mean: -0.0021 +/- 0.0129   |
| Std Dev: 0.2573 +/- 0.0045 | Std Dev: 0.5000 +/- 0.0080 | Std Dev: 0.2462 +/- 0.0091 |

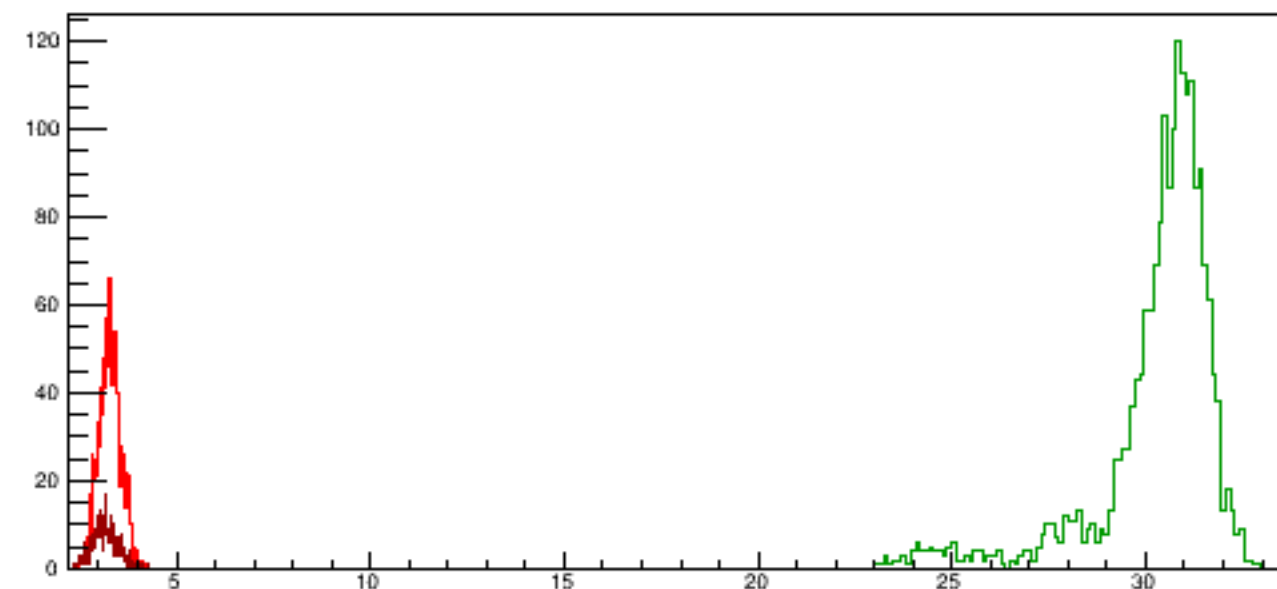
Run 5317 quartetwise, Diffs



## Cycle 11, Sums

| Entries: 1671              | Entries: 1952              | Entries: 365               |
|----------------------------|----------------------------|----------------------------|
| Mean: 3.2761 +/- 0.0070    | Mean: 30.2898 +/- 0.0360   | Mean: 3.1621 +/- 0.0169    |
| Std Dev: 0.2857 +/- 0.0049 | Std Dev: 1.5911 +/- 0.0255 | Std Dev: 0.3232 +/- 0.0120 |

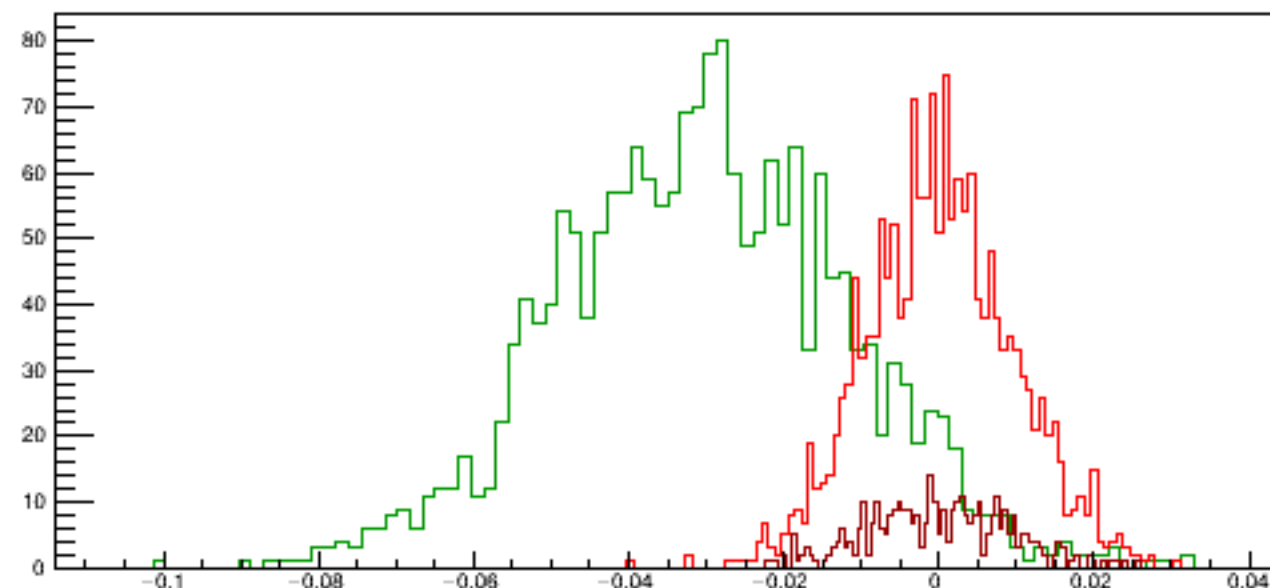
Run 5317 quartetwise, Sums



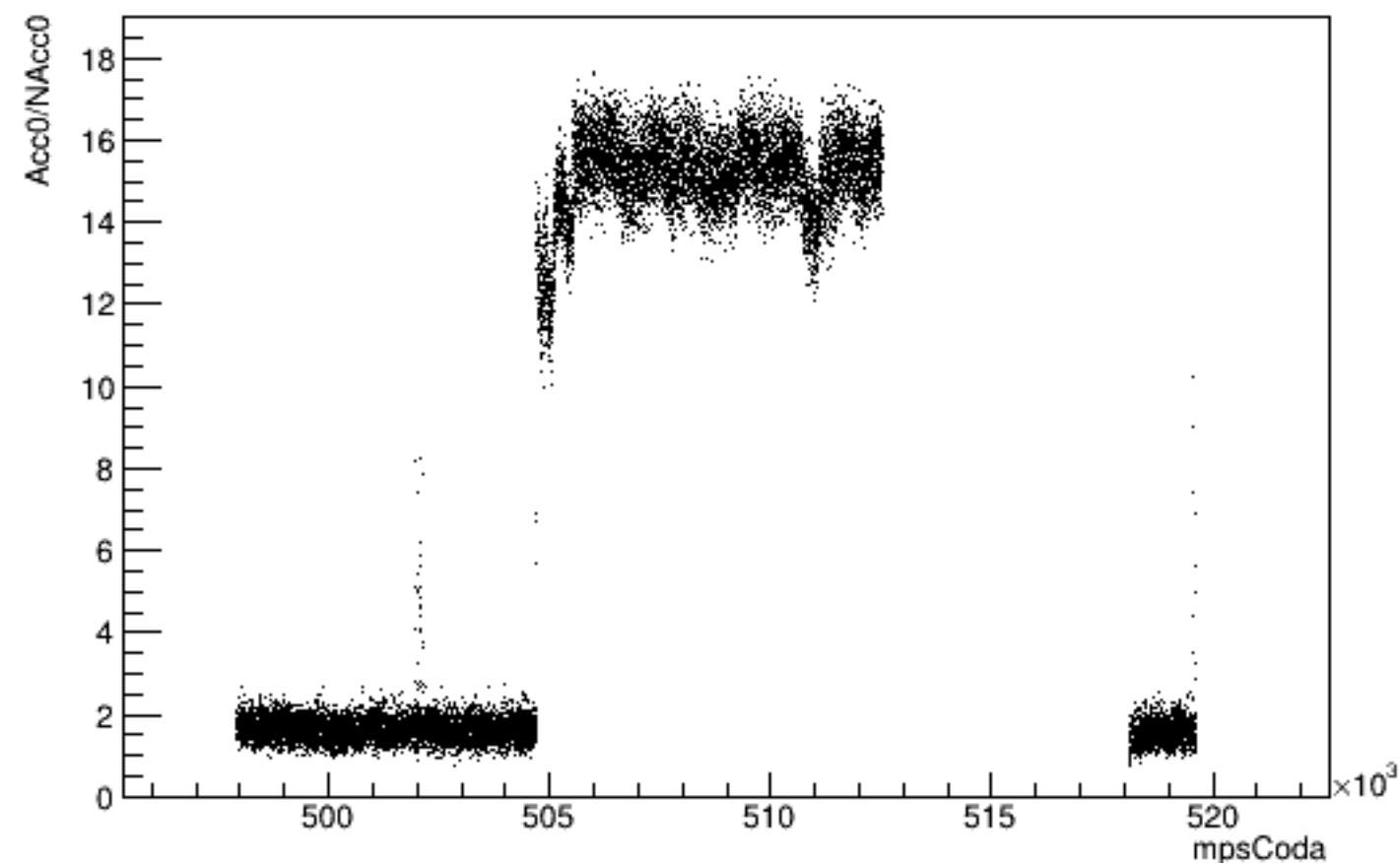
## Cycle 11, Asyms

| Entries: 1671              | Entries: 1952              | Entries: 365               |
|----------------------------|----------------------------|----------------------------|
| Mean: 0.0001 +/- 0.0002    | Mean: -0.0306 +/- 0.0004   | Mean: -0.0001 +/- 0.0005   |
| Std Dev: 0.0095 +/- 0.0002 | Std Dev: 0.0186 +/- 0.0003 | Std Dev: 0.0091 +/- 0.0003 |

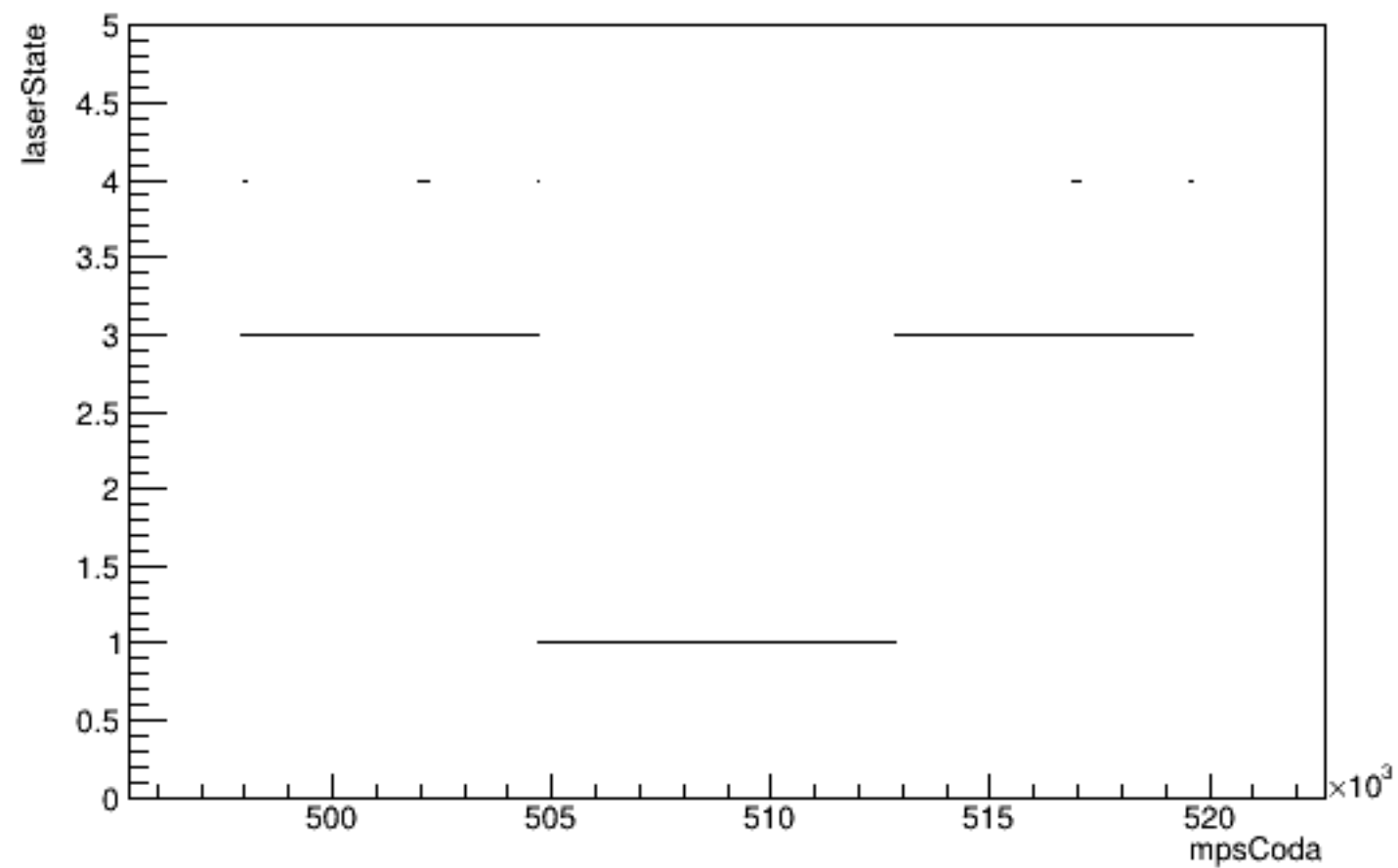
Run 5317 quartetwise, Asyms



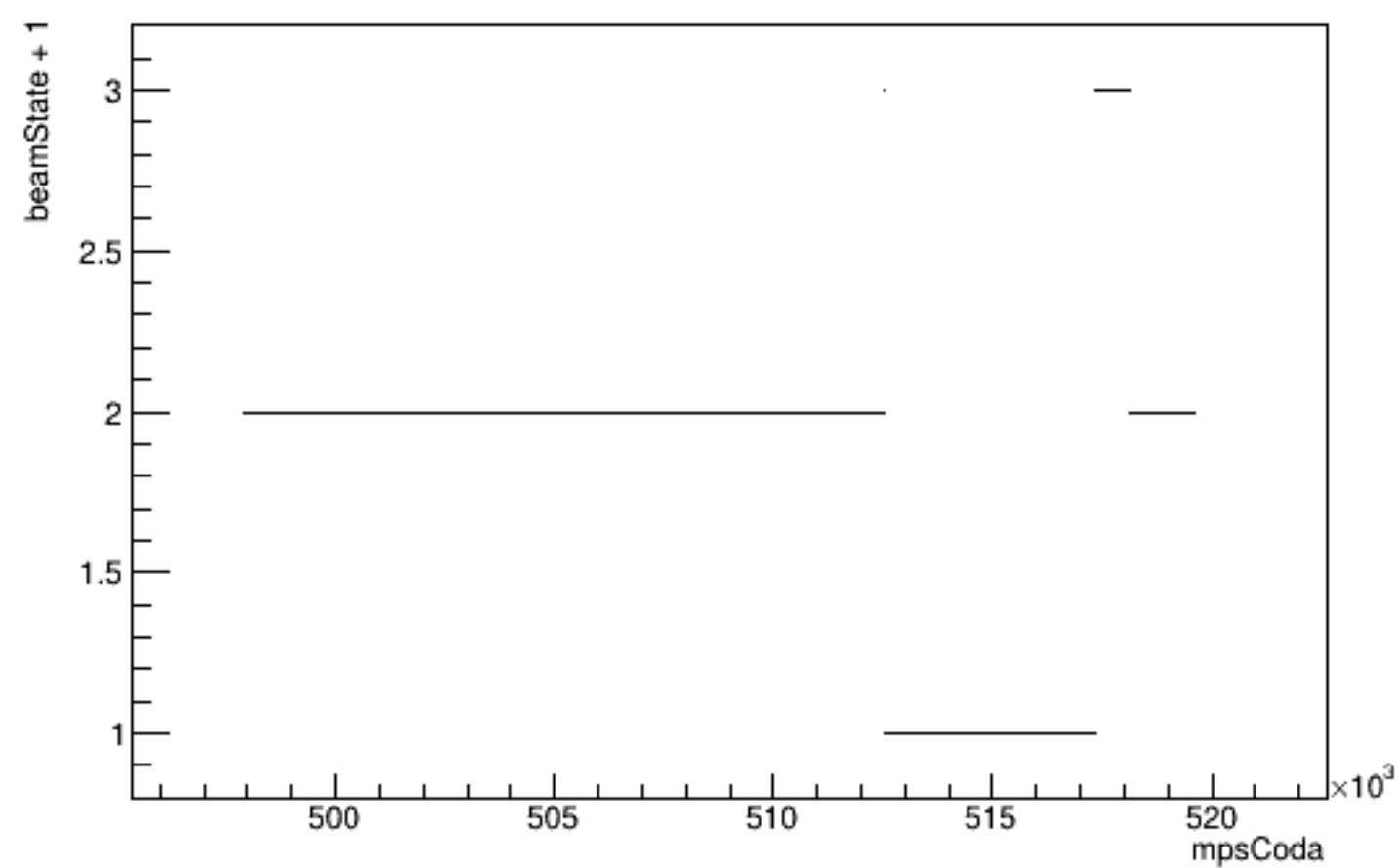
Acc0/NAcc0:mpsCoda (mpsCoda>=497924 && mpsCoda<=519619 && beamState==1)



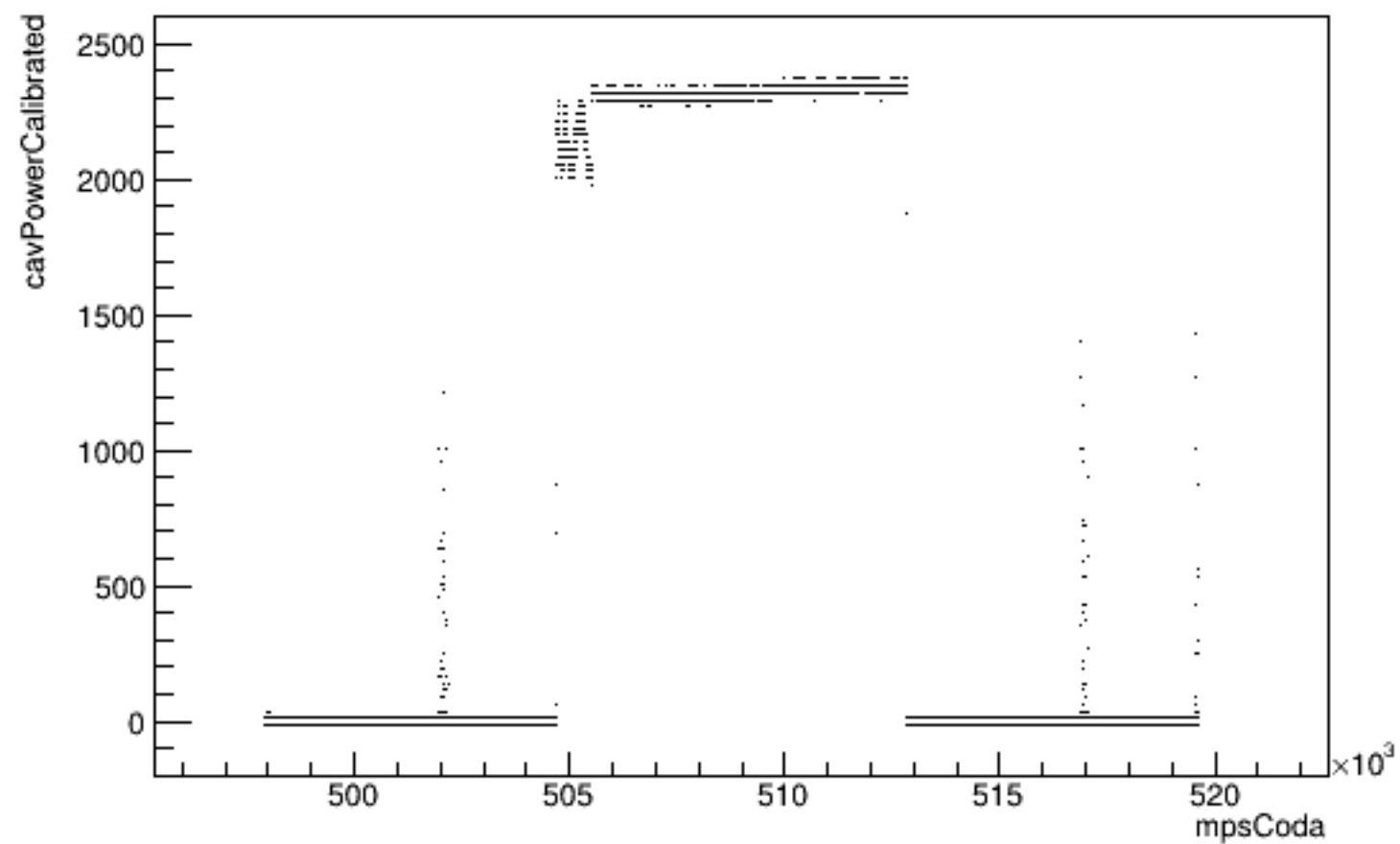
laserState:mpsCoda {mpsCoda&gt;=497924 &amp;&amp; mpsCoda&lt;=519619}



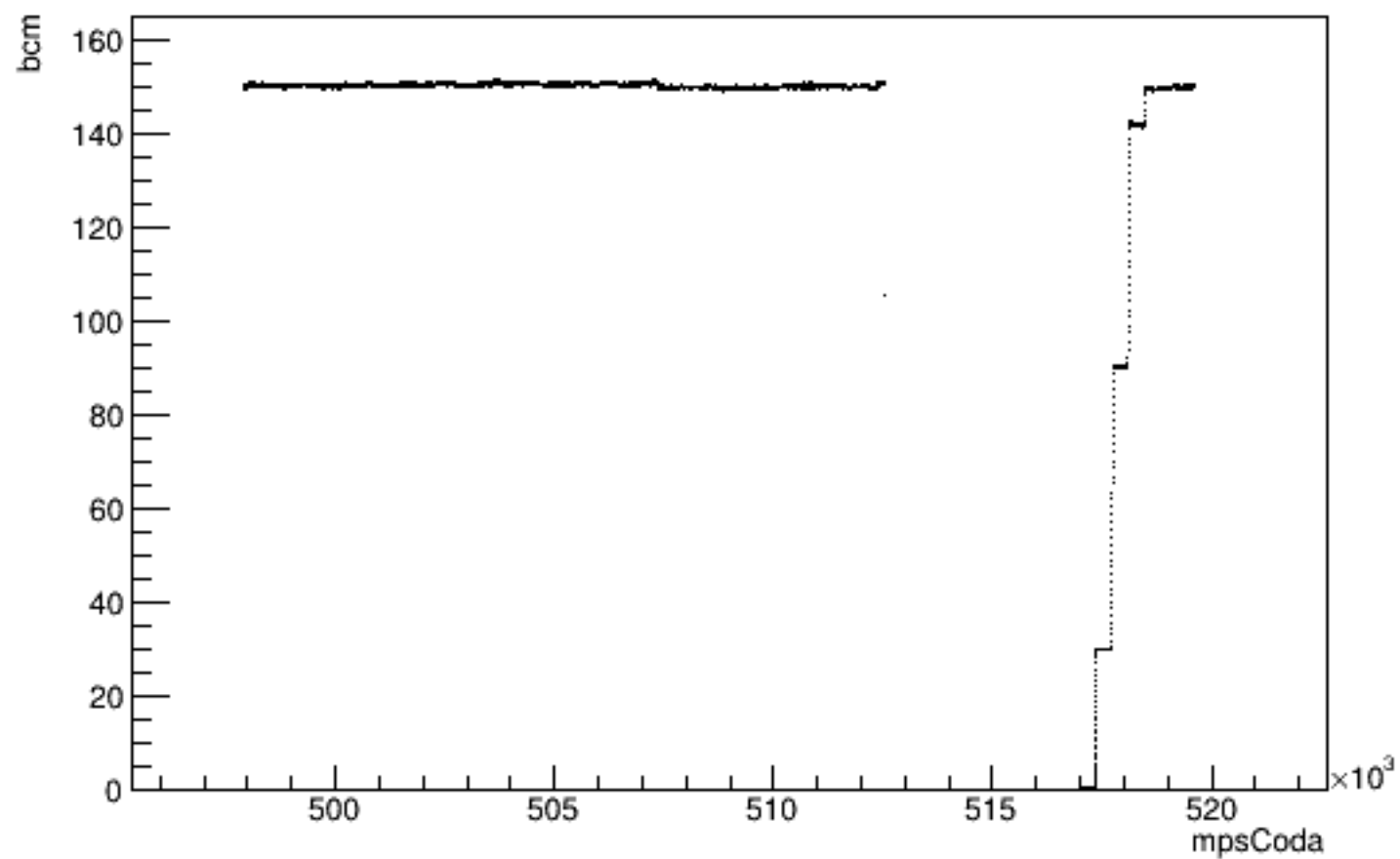
beamState + 1:mpsCoda {mpsCoda&gt;=497924 &amp;&amp; mpsCoda&lt;=519619}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=497924 &amp;&amp; mpsCoda&lt;=519619}



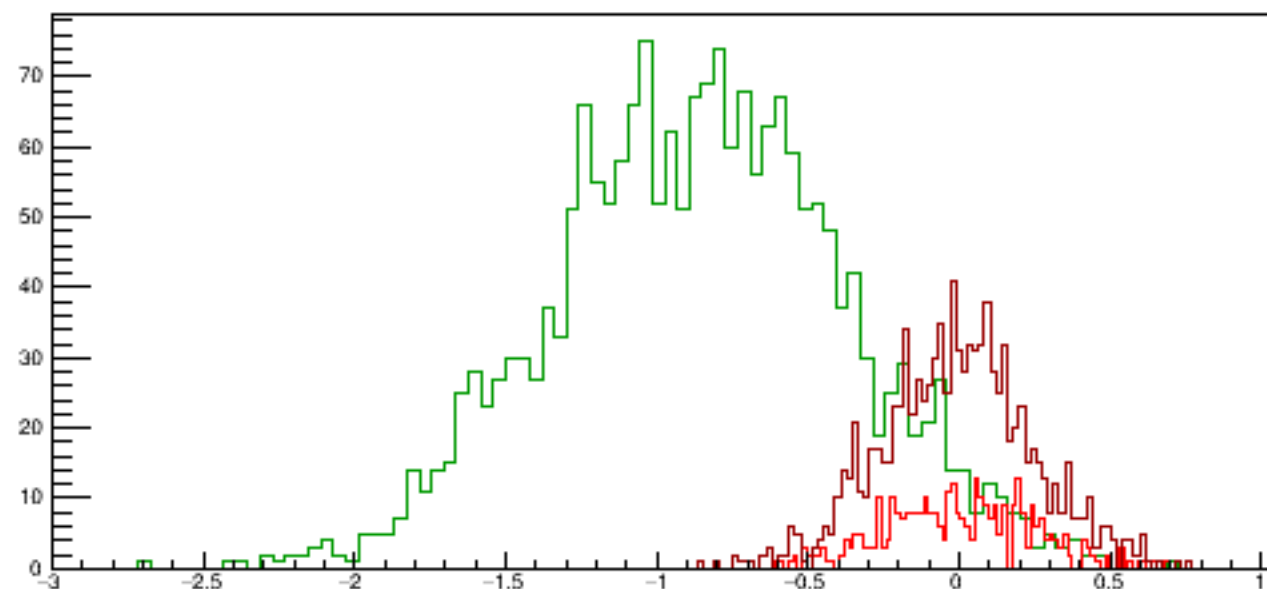
bcm:mpsCoda {mpsCoda&gt;=497924 &amp;&amp; mpsCoda&lt;=519619}



## Cycle 12, Diffs

| Entries: 365               | Entries: 2020              | Entries: 1009              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0021 +/- 0.0129   | Mean: -0.8623 +/- 0.0108   | Mean: -0.0092 +/- 0.0079   |
| Std Dev: 0.2462 +/- 0.0091 | Std Dev: 0.4858 +/- 0.0076 | Std Dev: 0.2496 +/- 0.0056 |

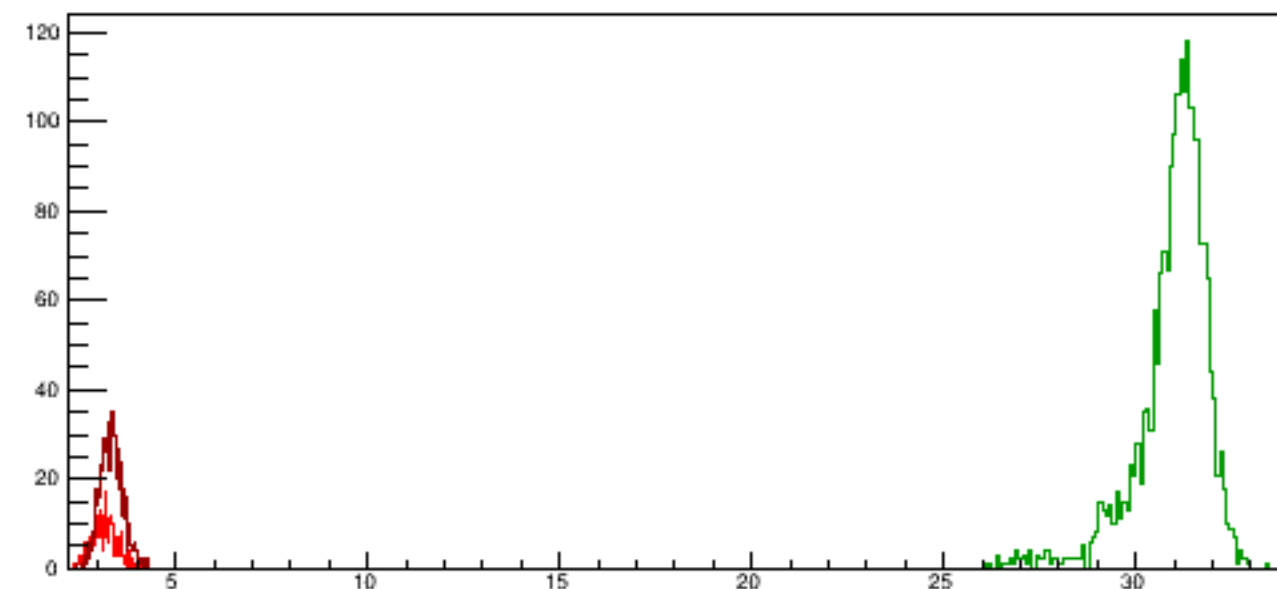
Run 5317 quartetwise, Diffs



## Cycle 12, Sums

| Entries: 365               | Entries: 2020              | Entries: 1009              |
|----------------------------|----------------------------|----------------------------|
| Mean: 3.1621 +/- 0.0169    | Mean: 30.9758 +/- 0.0209   | Mean: 3.3313 +/- 0.0093    |
| Std Dev: 0.3232 +/- 0.0120 | Std Dev: 0.9412 +/- 0.0148 | Std Dev: 0.2956 +/- 0.0066 |

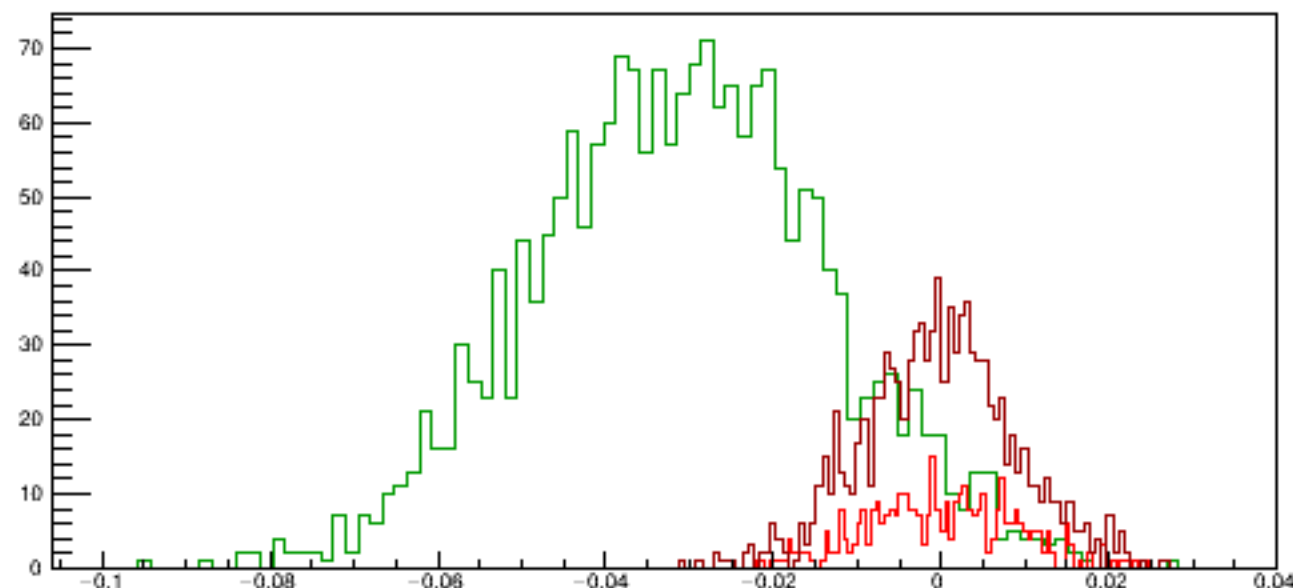
Run 5317 quartetwise, Sums



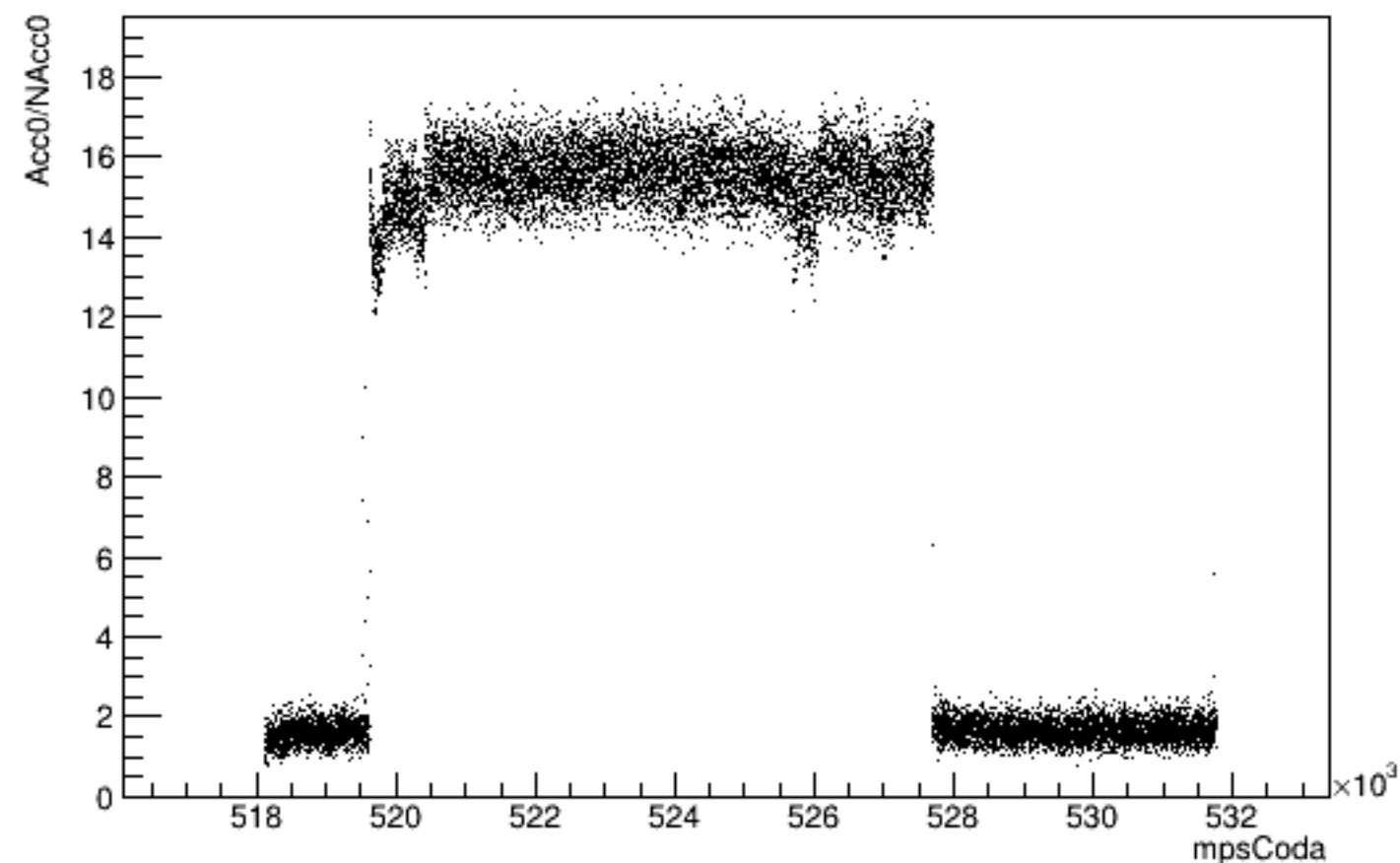
## Cycle 12, Asyms

| Entries: 365               | Entries: 2020              | Entries: 1009              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0001 +/- 0.0005   | Mean: -0.0311 +/- 0.0004   | Mean: -0.0003 +/- 0.0003   |
| Std Dev: 0.0089 +/- 0.0003 | Std Dev: 0.0175 +/- 0.0003 | Std Dev: 0.0090 +/- 0.0002 |

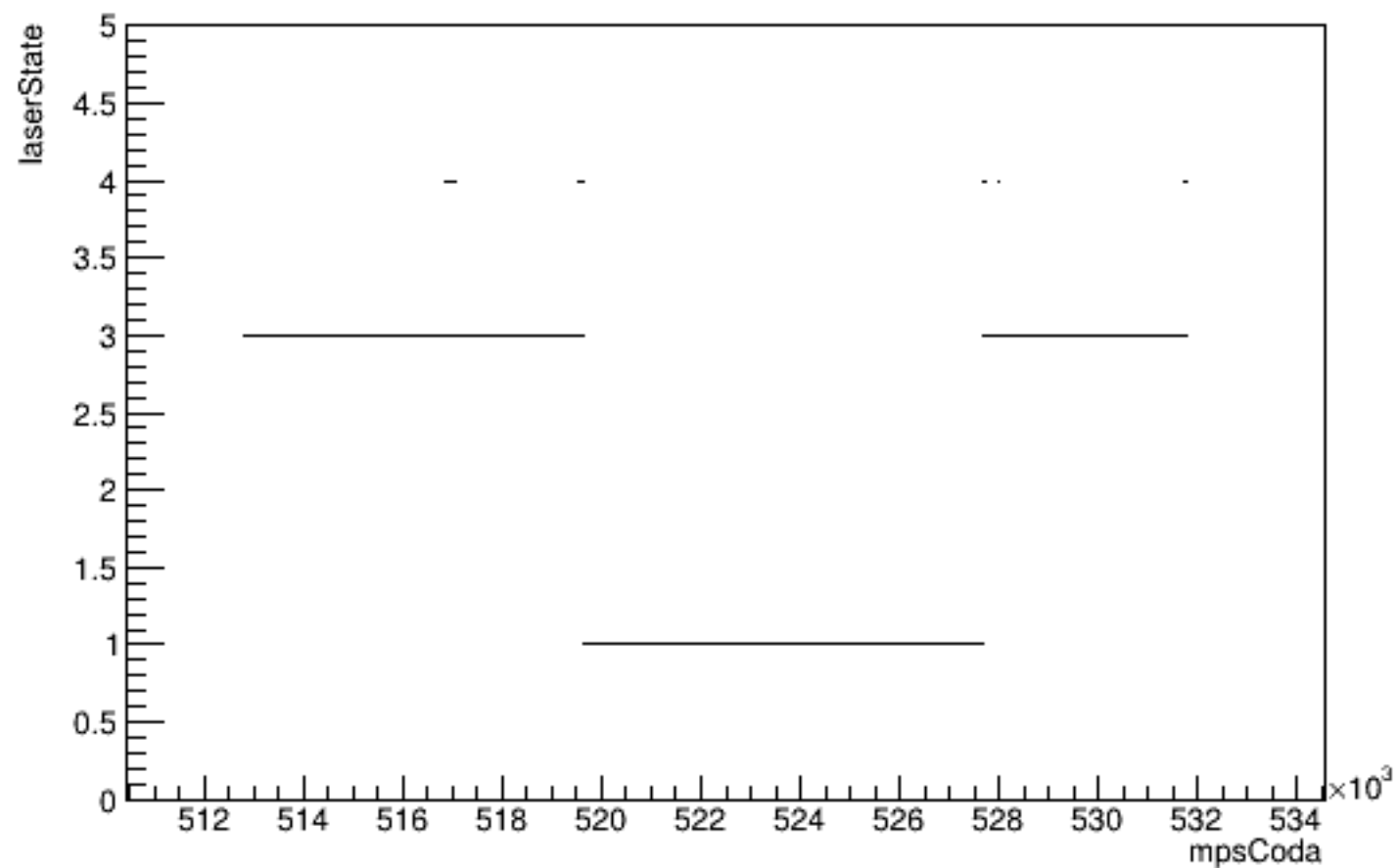
Run 5317 quartetwise, Asyms



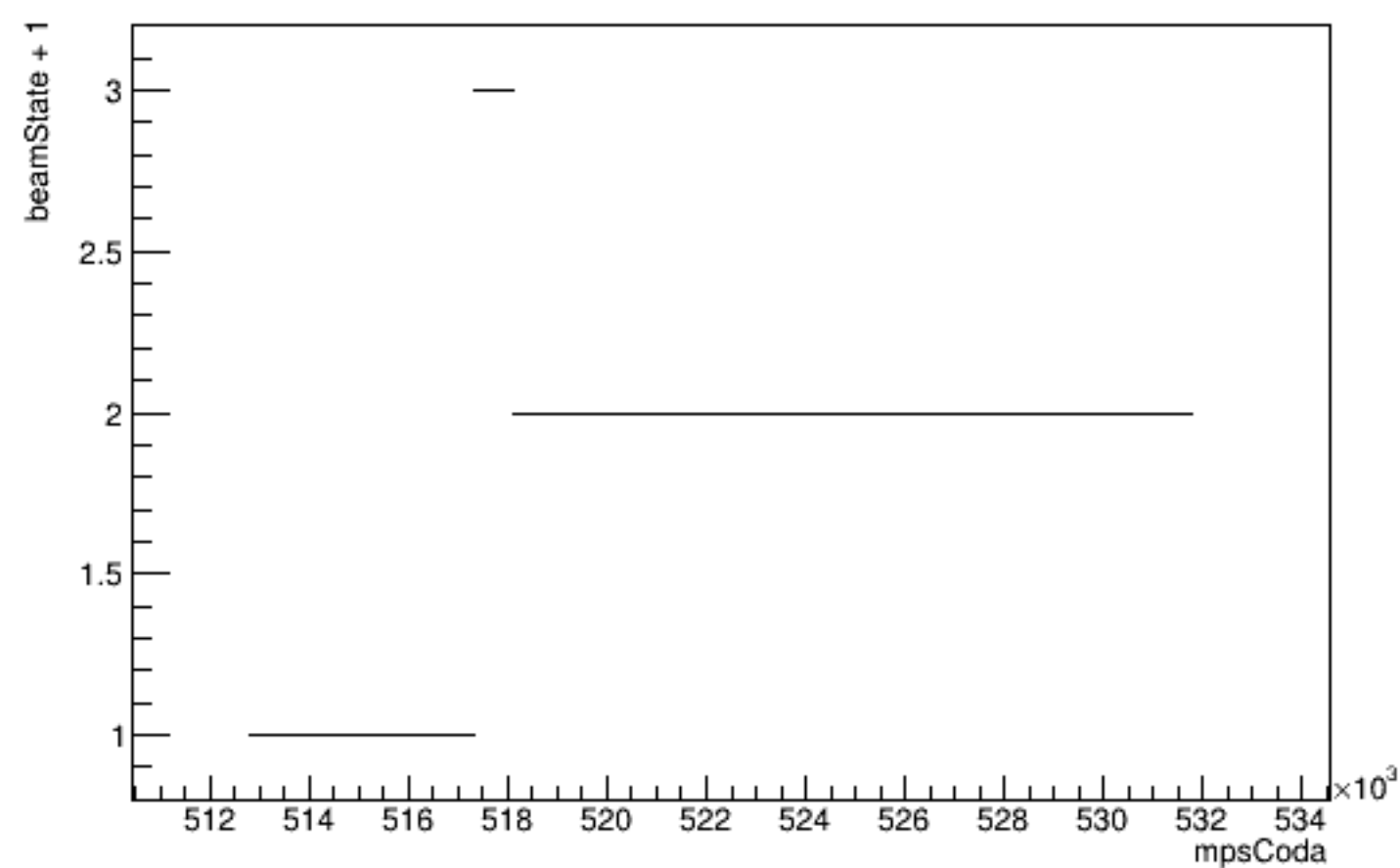
Acc0/NAcc0:mpsCoda (mpsCoda>=512816 && mpsCoda<=531763 && beamState==1)



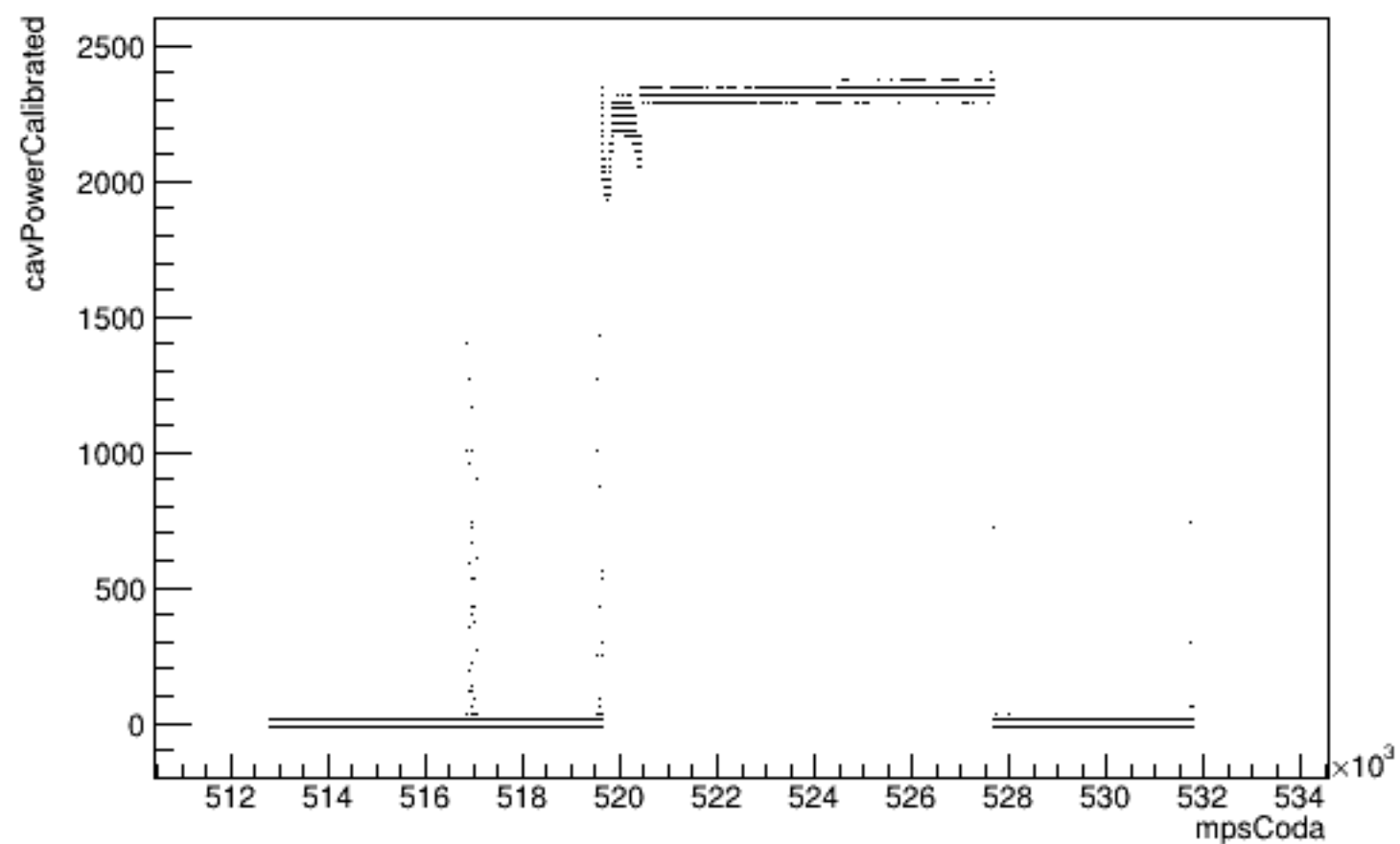
laserState:mpsCoda {mpsCoda&gt;=512816 &amp;&amp; mpsCoda&lt;=531763}



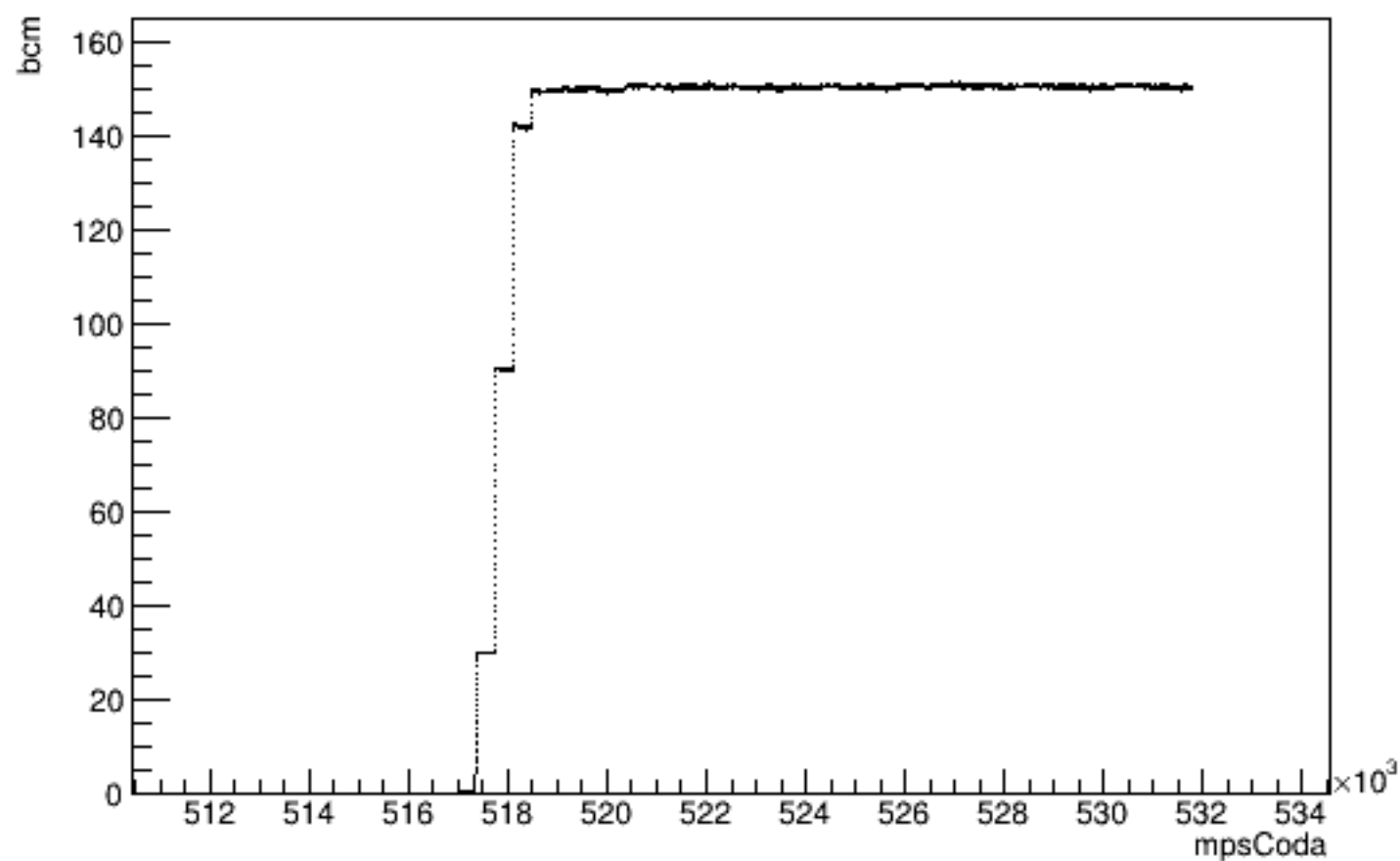
beamState + 1:mpsCoda {mpsCoda&gt;=512816 &amp;&amp; mpsCoda&lt;=531763}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=512816 &amp;&amp; mpsCoda&lt;=531763}



bcm:mpsCoda {mpsCoda&gt;=512816 &amp;&amp; mpsCoda&lt;=531763}



## Cycle 13, Diffs

Entries: 1020

Mean: 0.0122 +/- 0.0080

Std Dev: 0.2554 +/- 0.0057

Entries: 1967

Mean: -0.8778 +/- 0.0113

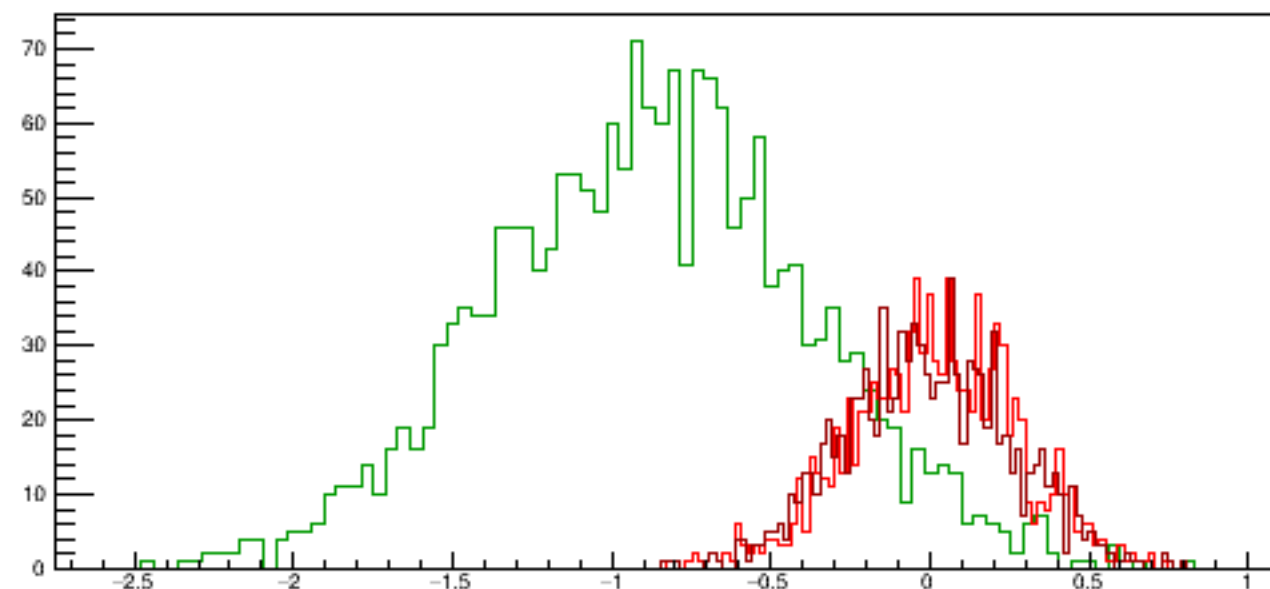
Std Dev: 0.4990 +/- 0.0080

Entries: 1000

Mean: -0.0105 +/- 0.0082

Std Dev: 0.2605 +/- 0.0058

Run 5317 quartetwise, Diffs



## Cycle 13, Sums

Entries: 1020

Mean: 3.2103 +/- 0.0096

Std Dev: 0.3071 +/- 0.0068

Entries: 1967

Mean: 30.7103 +/- 0.0312

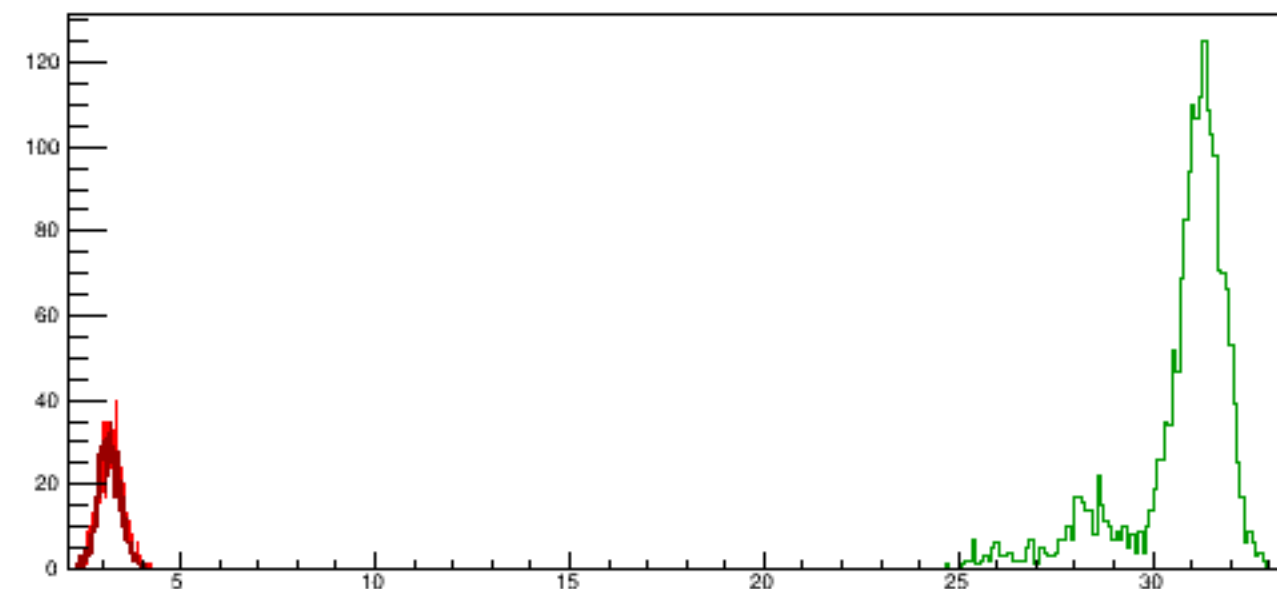
Std Dev: 1.3831 +/- 0.0221

Entries: 1000

Mean: 3.1732 +/- 0.0091

Std Dev: 0.2878 +/- 0.0064

Run 5317 quartetwise, Sums



## Cycle 13, Asyms

Entries: 1020

Mean: 0.0004 +/- 0.0003

Std Dev: 0.0093 +/- 0.0002

Entries: 1967

Mean: -0.0319 +/- 0.0004

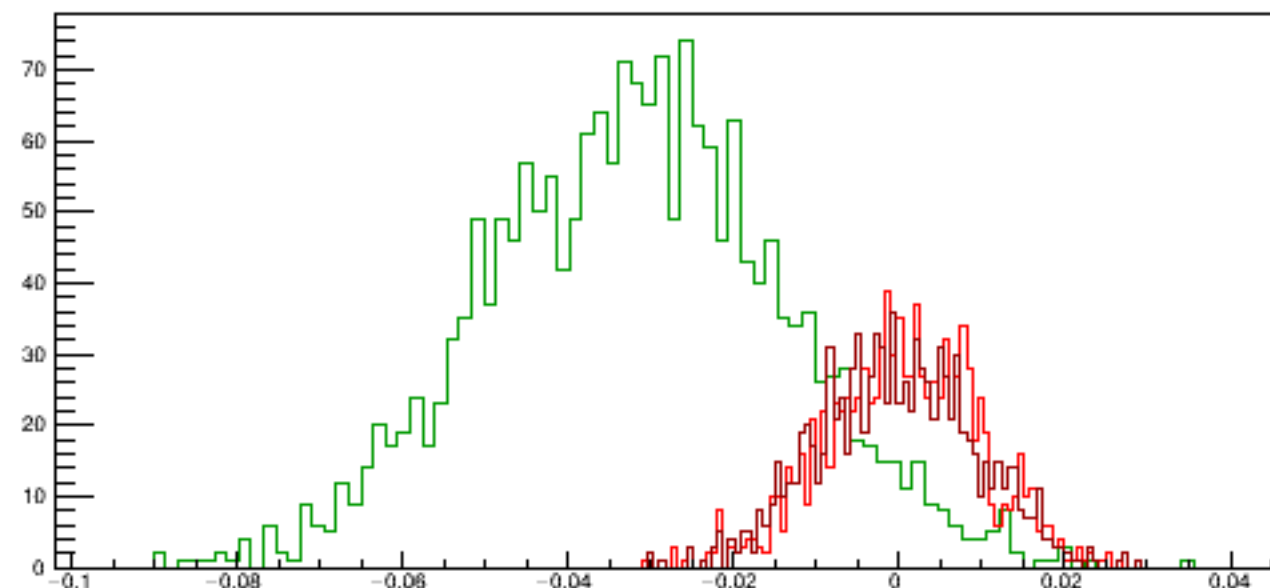
Std Dev: 0.0181 +/- 0.0003

Entries: 1000

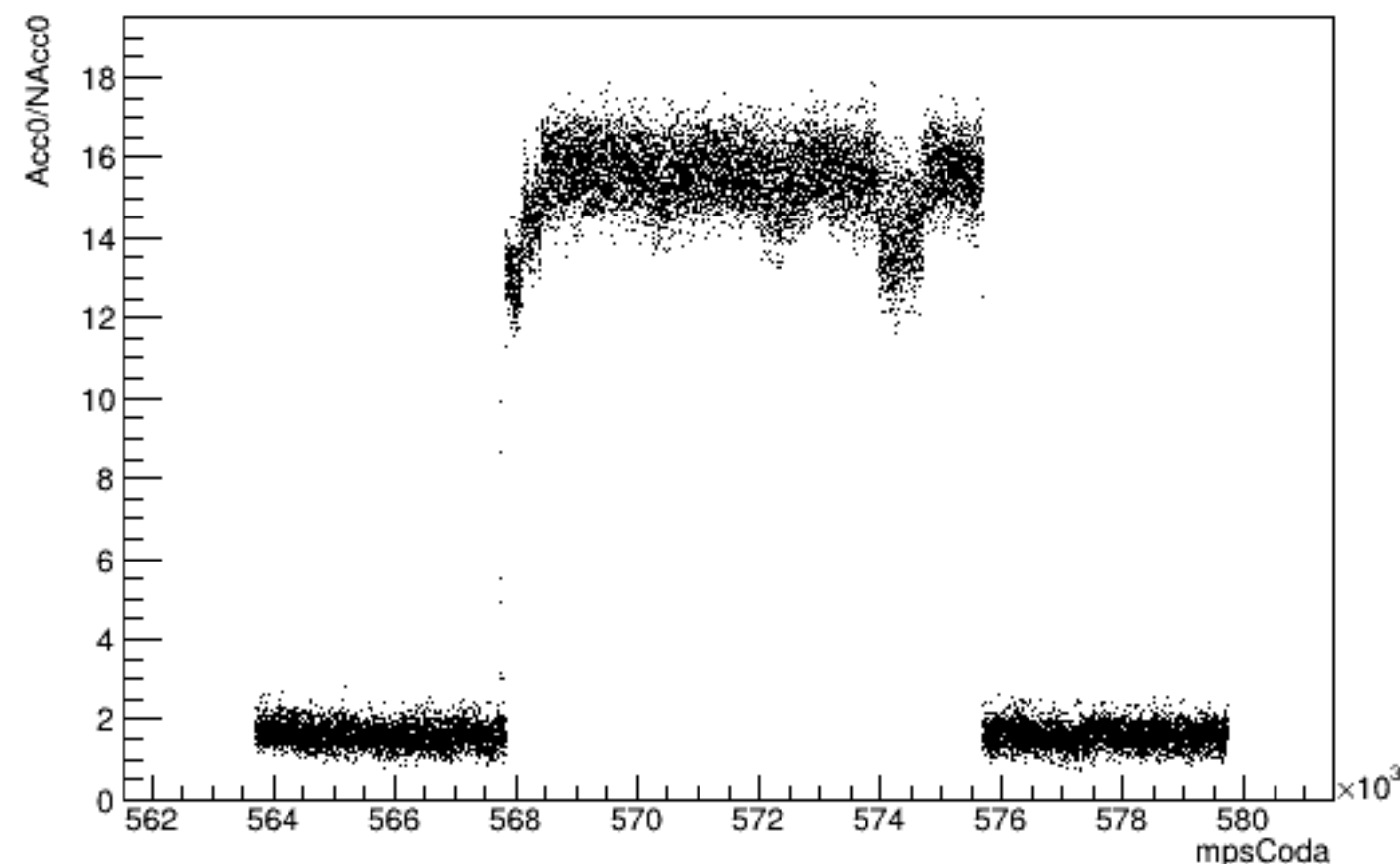
Mean: -0.0004 +/- 0.0003

Std Dev: 0.0095 +/- 0.0002

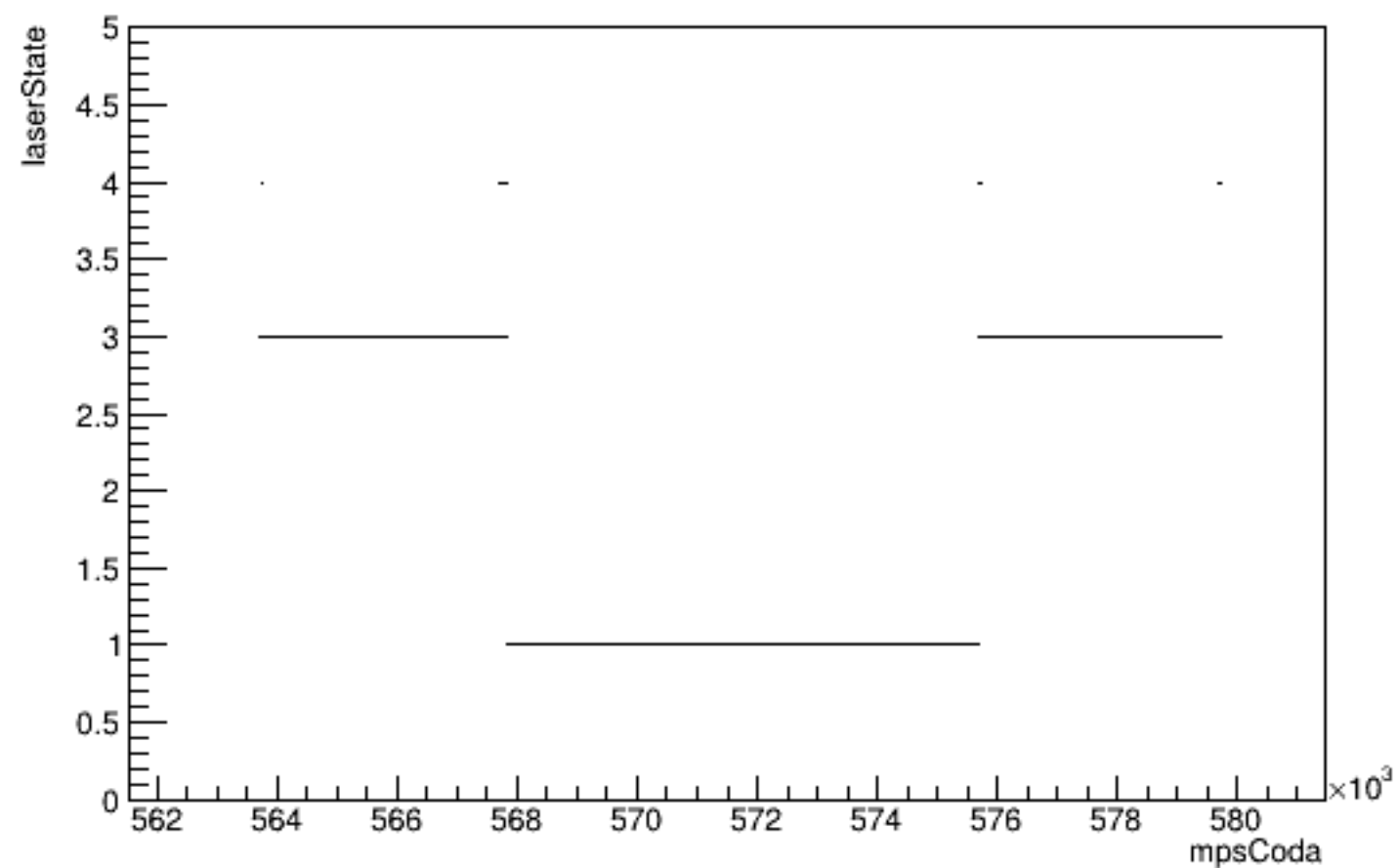
Run 5317 quartetwise, Asyms



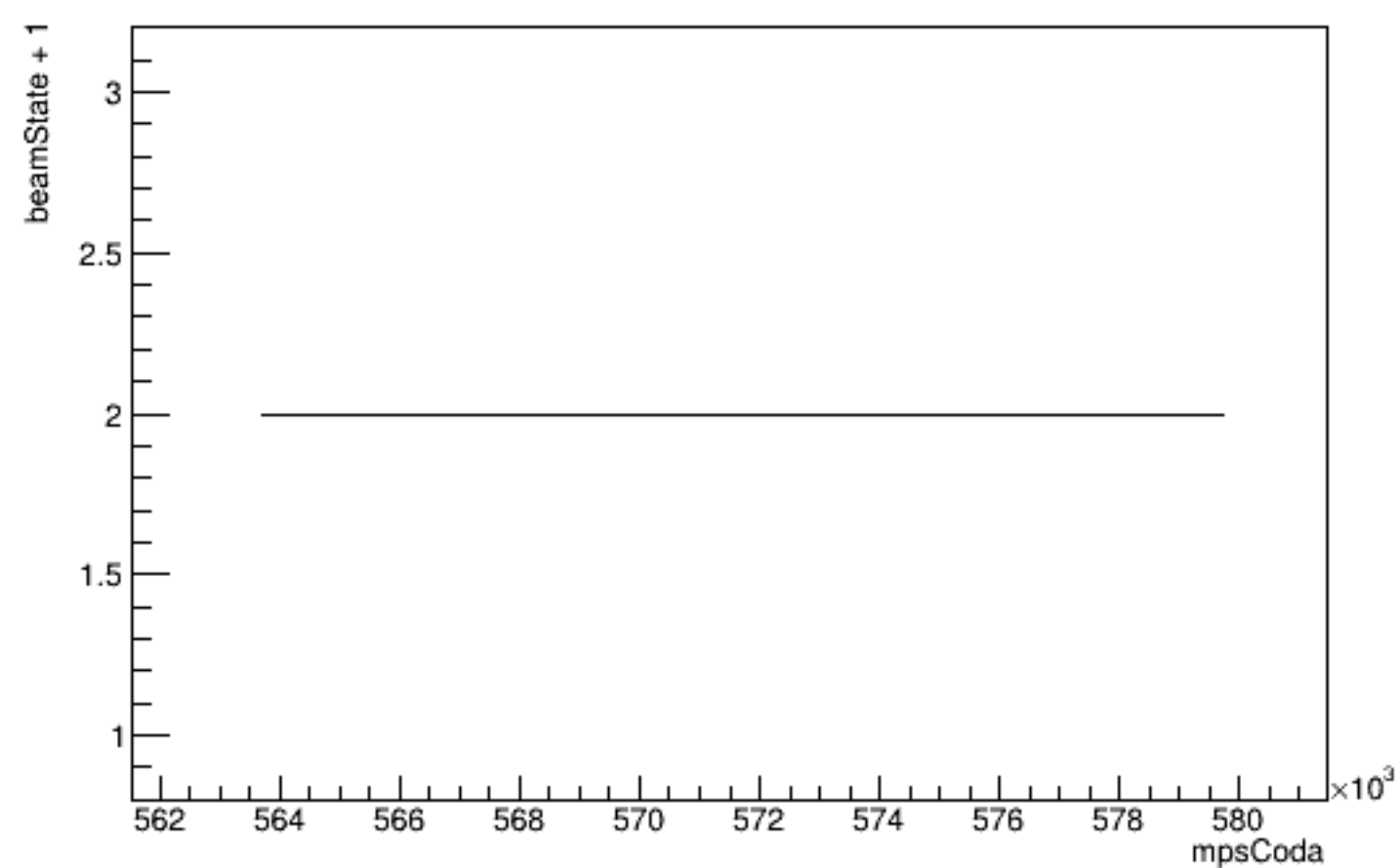
Acc0/NAcc0:mpsCoda (mpsCoda>=563712 && mpsCoda<=579723 && beamState==1)



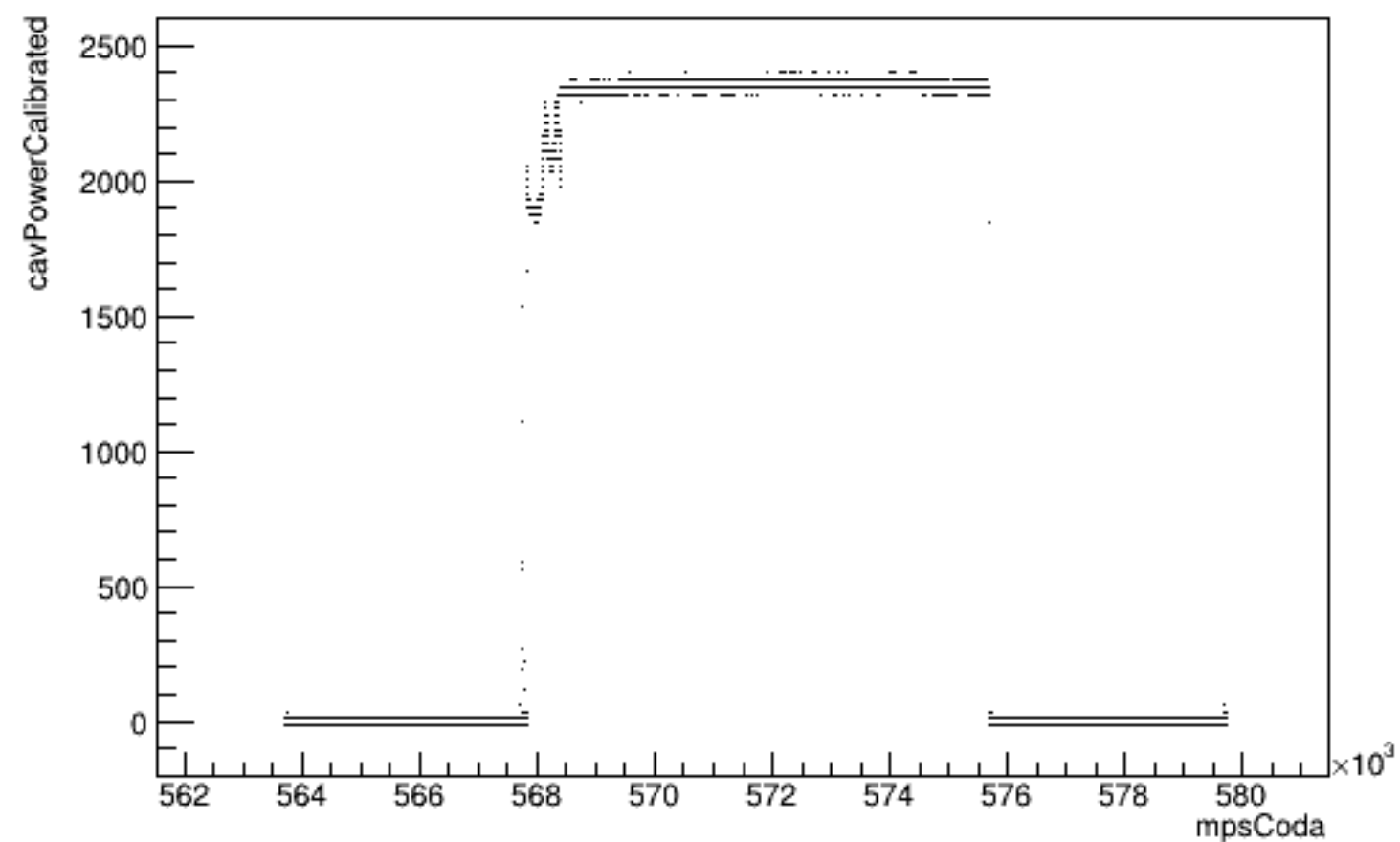
laserState:mpsCoda {mpsCoda&gt;=563712 &amp;&amp; mpsCoda&lt;=579723}



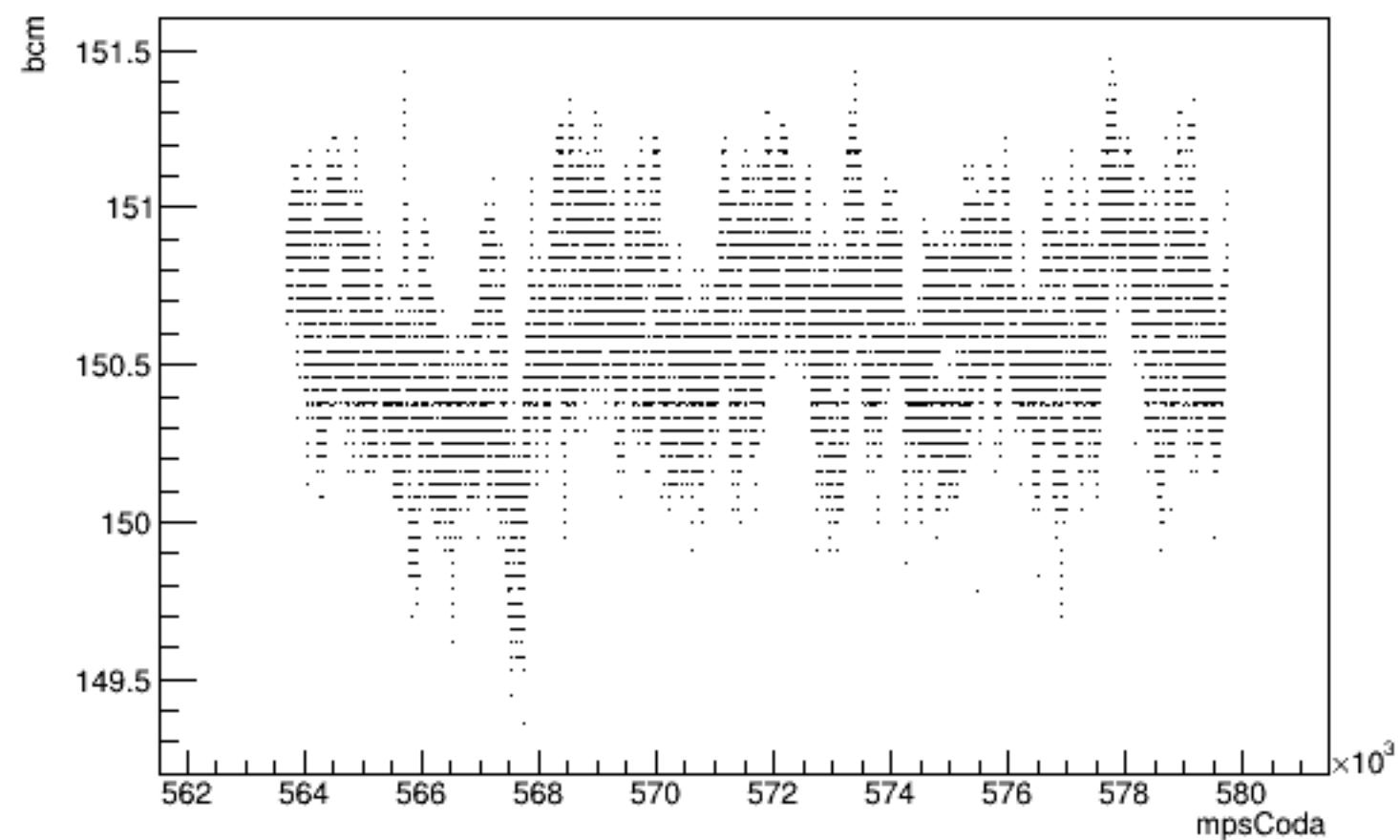
beamState + 1:mpsCoda {mpsCoda&gt;=563712 &amp;&amp; mpsCoda&lt;=579723}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=563712 &amp;&amp; mpsCoda&lt;=579723}



bcm:mpsCoda {mpsCoda&gt;=563712 &amp;&amp; mpsCoda&lt;=579723}



## Cycle 14, Diffs

Entries: 1000

Mean: -0.0105 +/- 0.0082

Std Dev: 0.2605 +/- 0.0058

Entries: 1986

Mean: -0.8671 +/- 0.0108

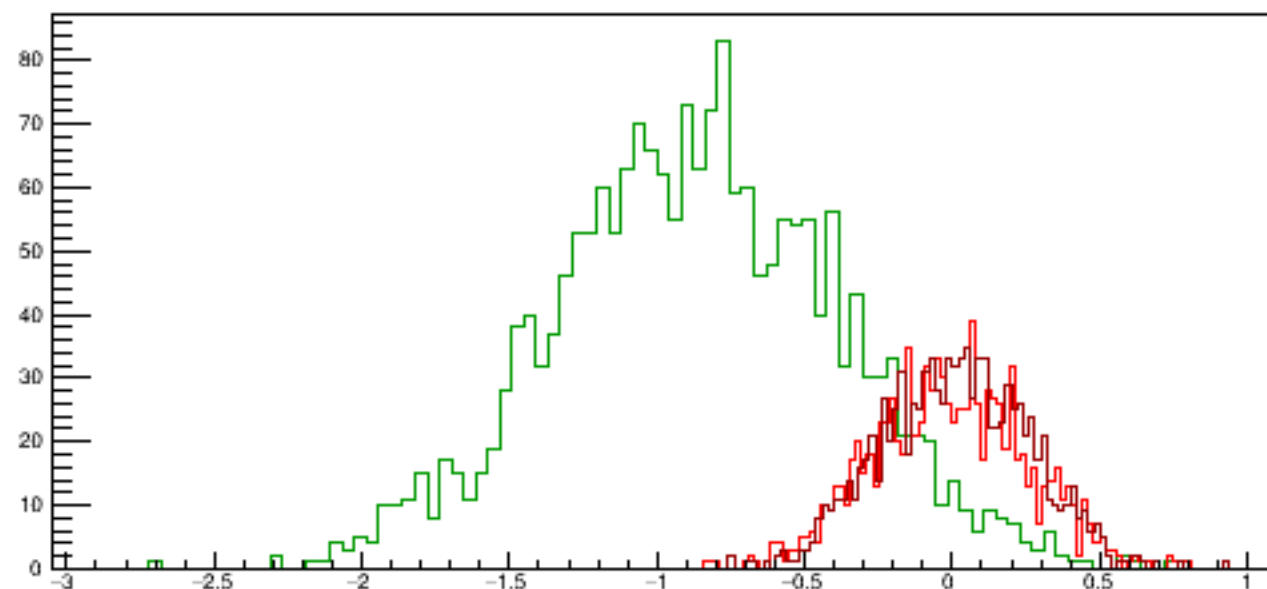
Std Dev: 0.4794 +/- 0.0076

Entries: 1010

Mean: 0.0085 +/- 0.0078

Std Dev: 0.2473 +/- 0.0055

Run 5317 quartetwise, Diffs



## Cycle 14, Sums

Entries: 1000

Mean: 3.1732 +/- 0.0091

Std Dev: 0.2878 +/- 0.0064

Entries: 1986

Mean: 31.0795 +/- 0.0296

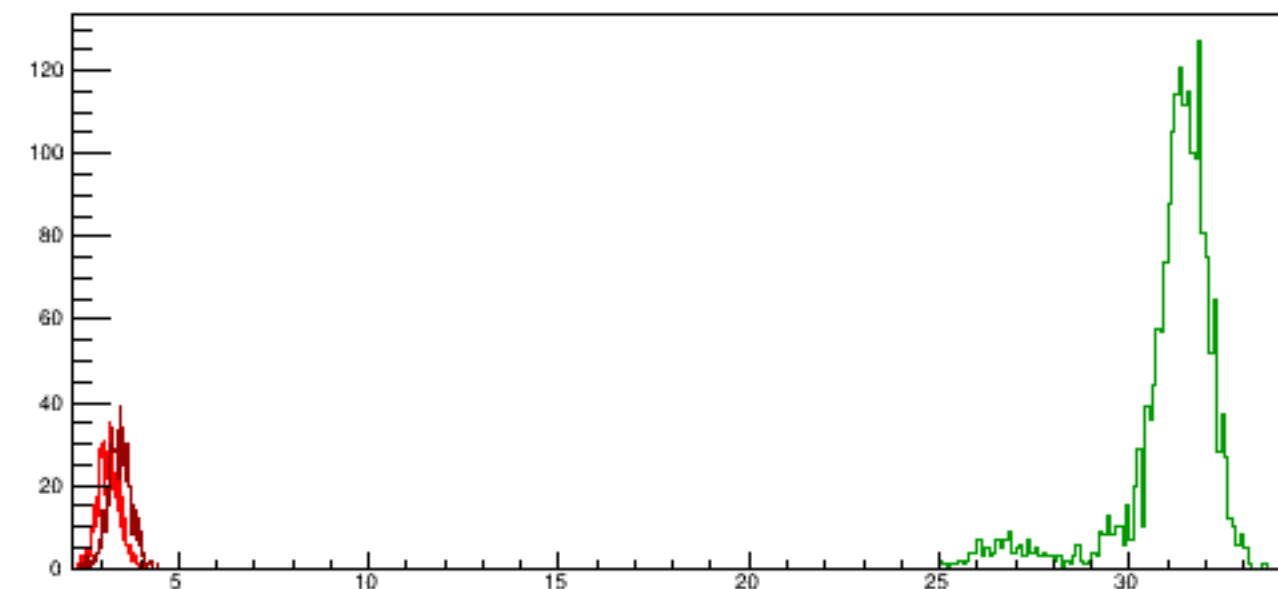
Std Dev: 1.3211 +/- 0.0210

Entries: 1010

Mean: 3.4565 +/- 0.0095

Std Dev: 0.3005 +/- 0.0067

Run 5317 quartetwise, Sums



## Cycle 14, Asyms

Entries: 1000

Mean: -0.0004 +/- 0.0003

Std Dev: 0.0094 +/- 0.0002

Entries: 1986

Mean: -0.0312 +/- 0.0004

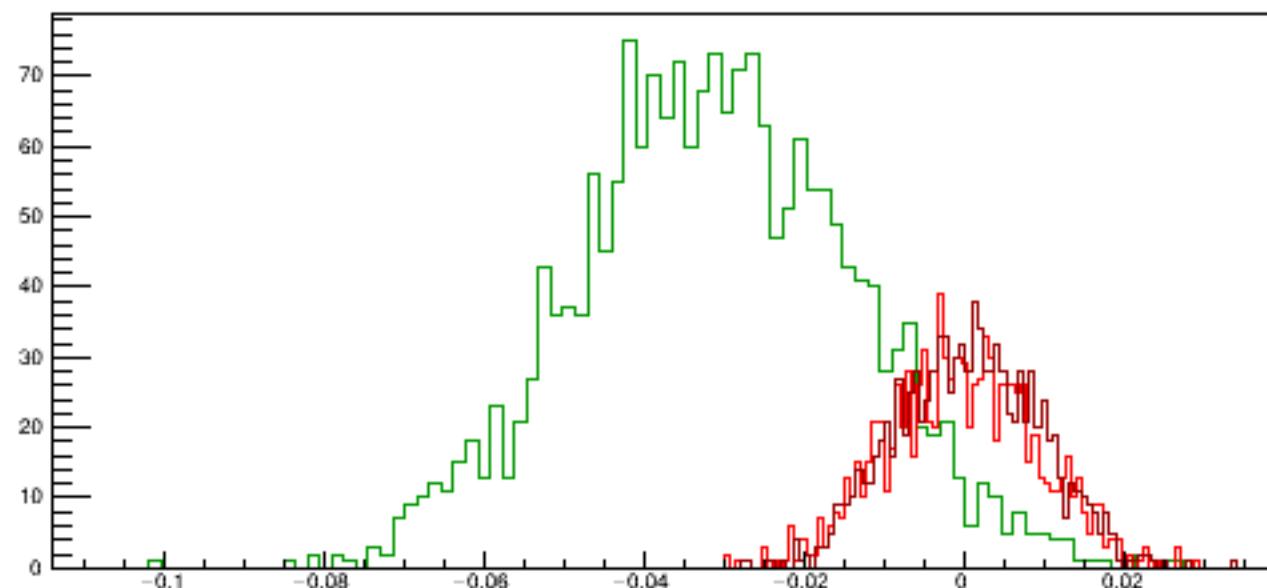
Std Dev: 0.0173 +/- 0.0003

Entries: 1010

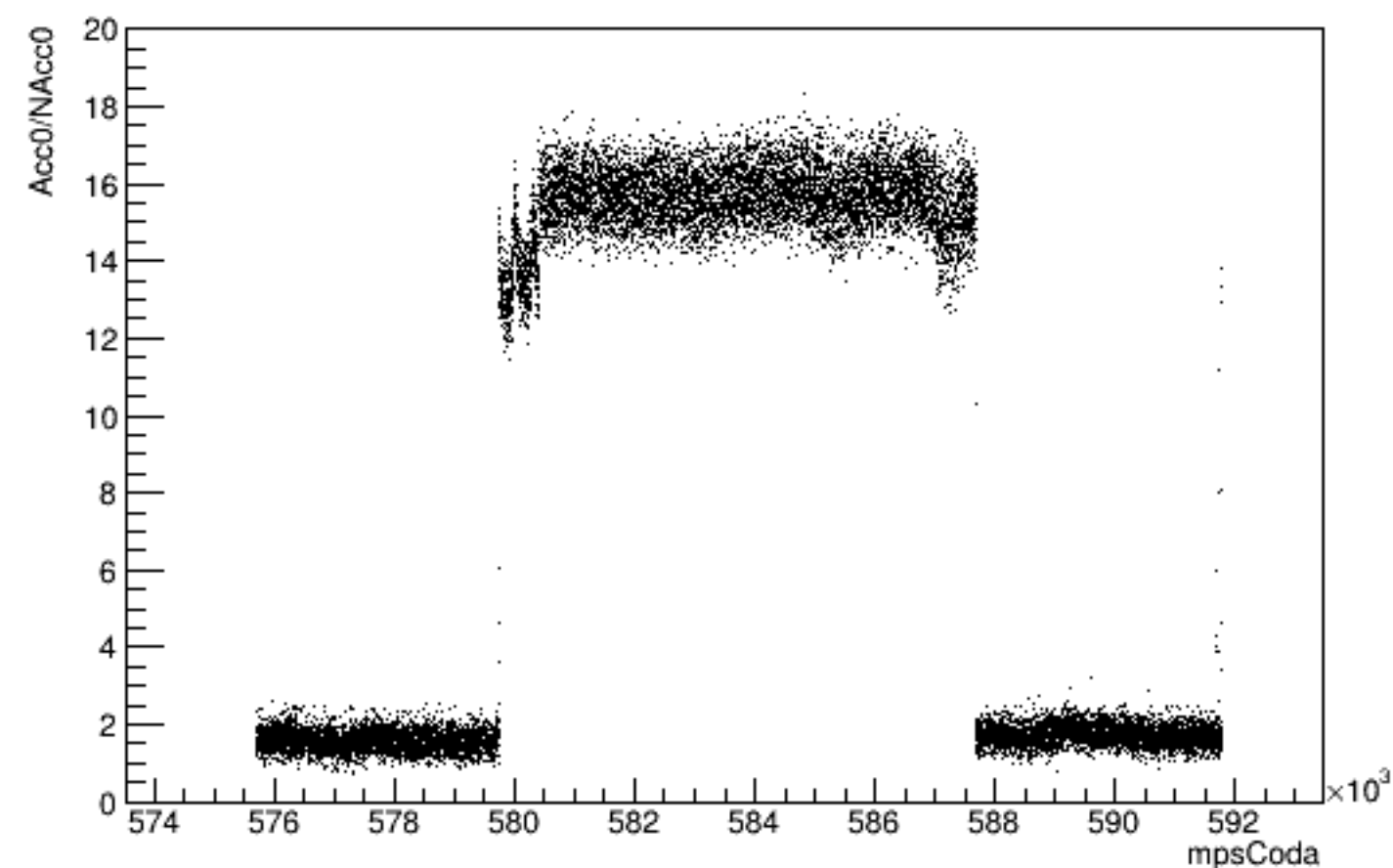
Mean: 0.0003 +/- 0.0003

Std Dev: 0.0089 +/- 0.0002

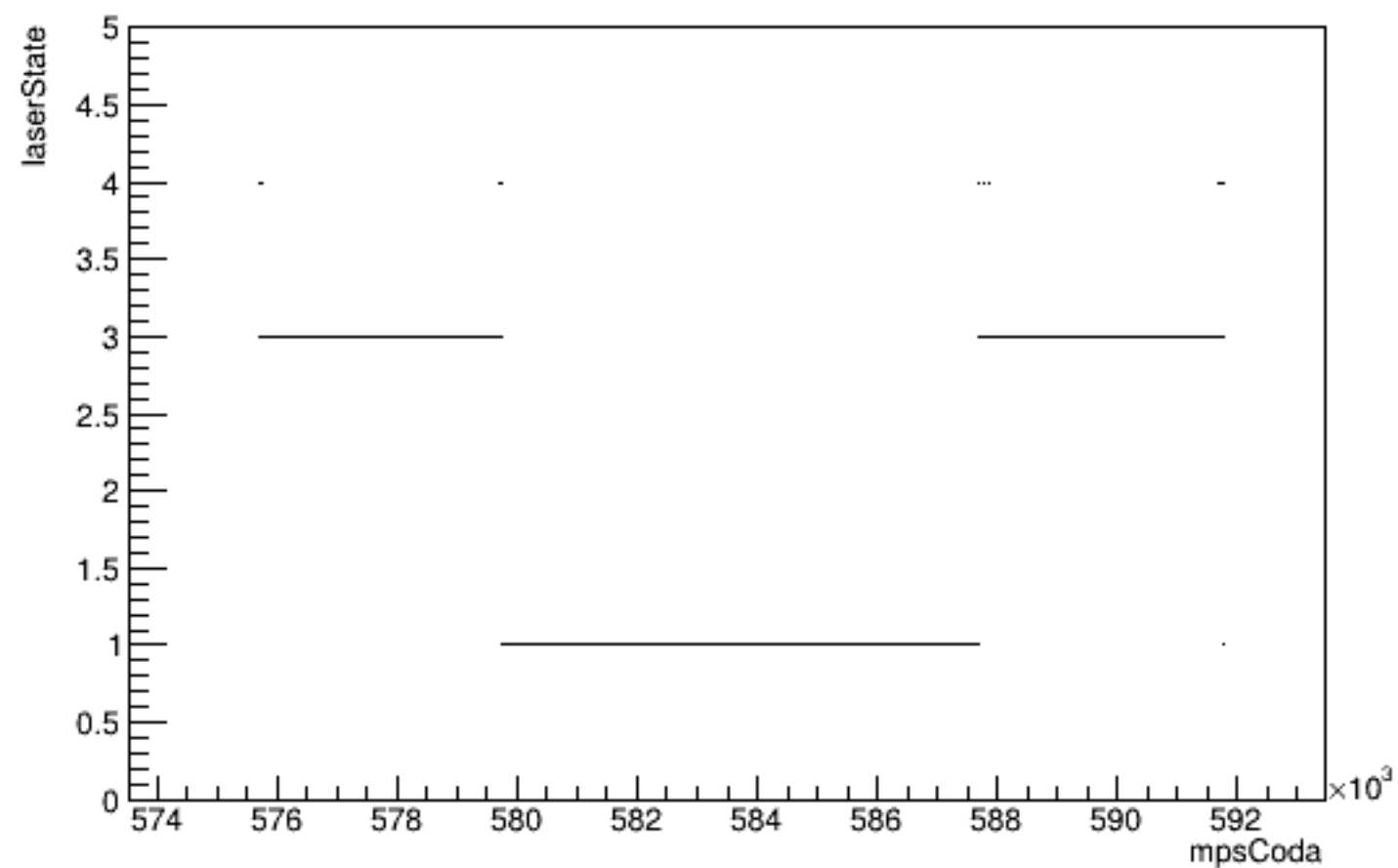
Run 5317 quartetwise, Asyms



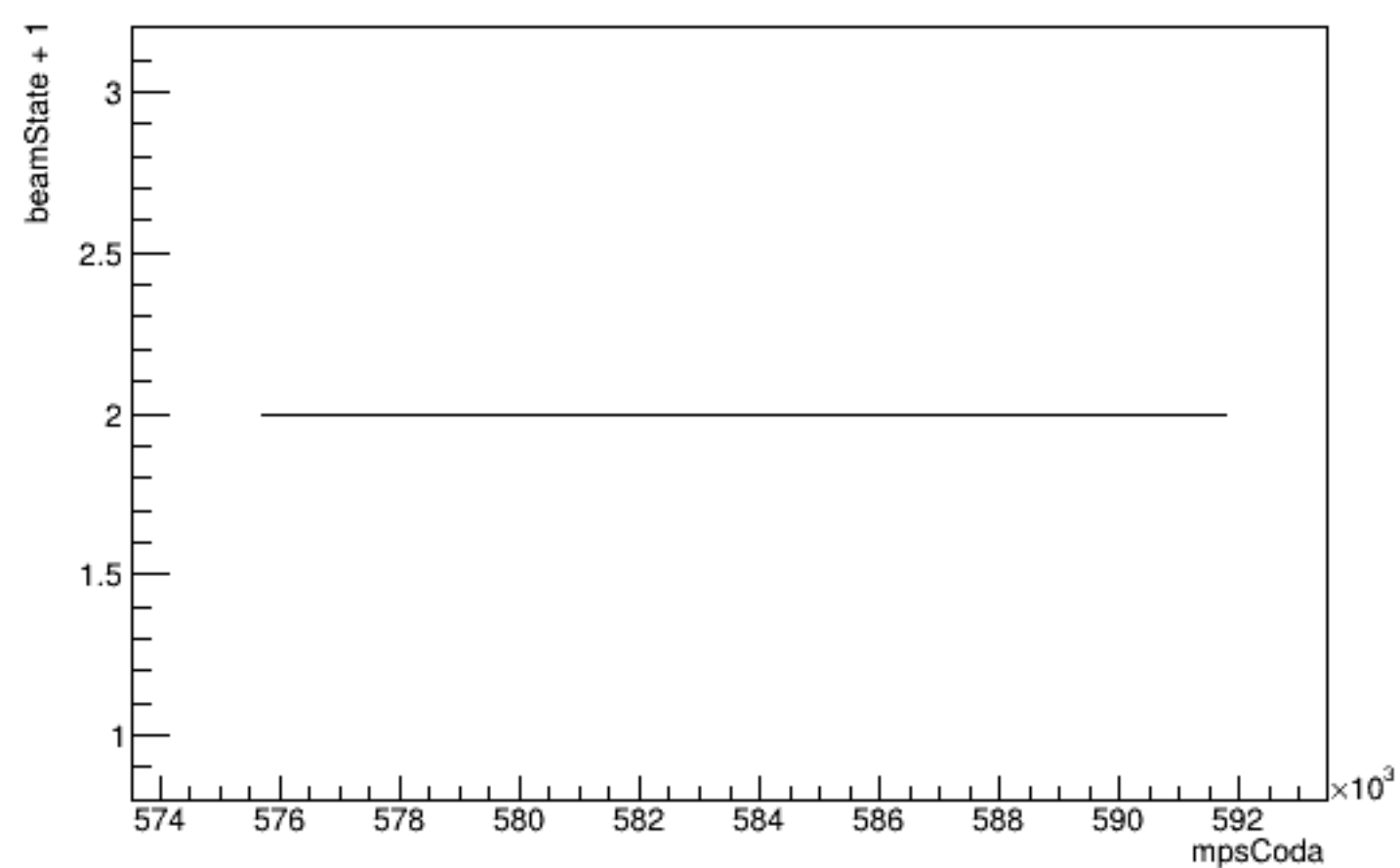
Acc0/NAcc0:mpsCoda (mpsCoda>=575696 && mpsCoda<=591783 && beamState==1)



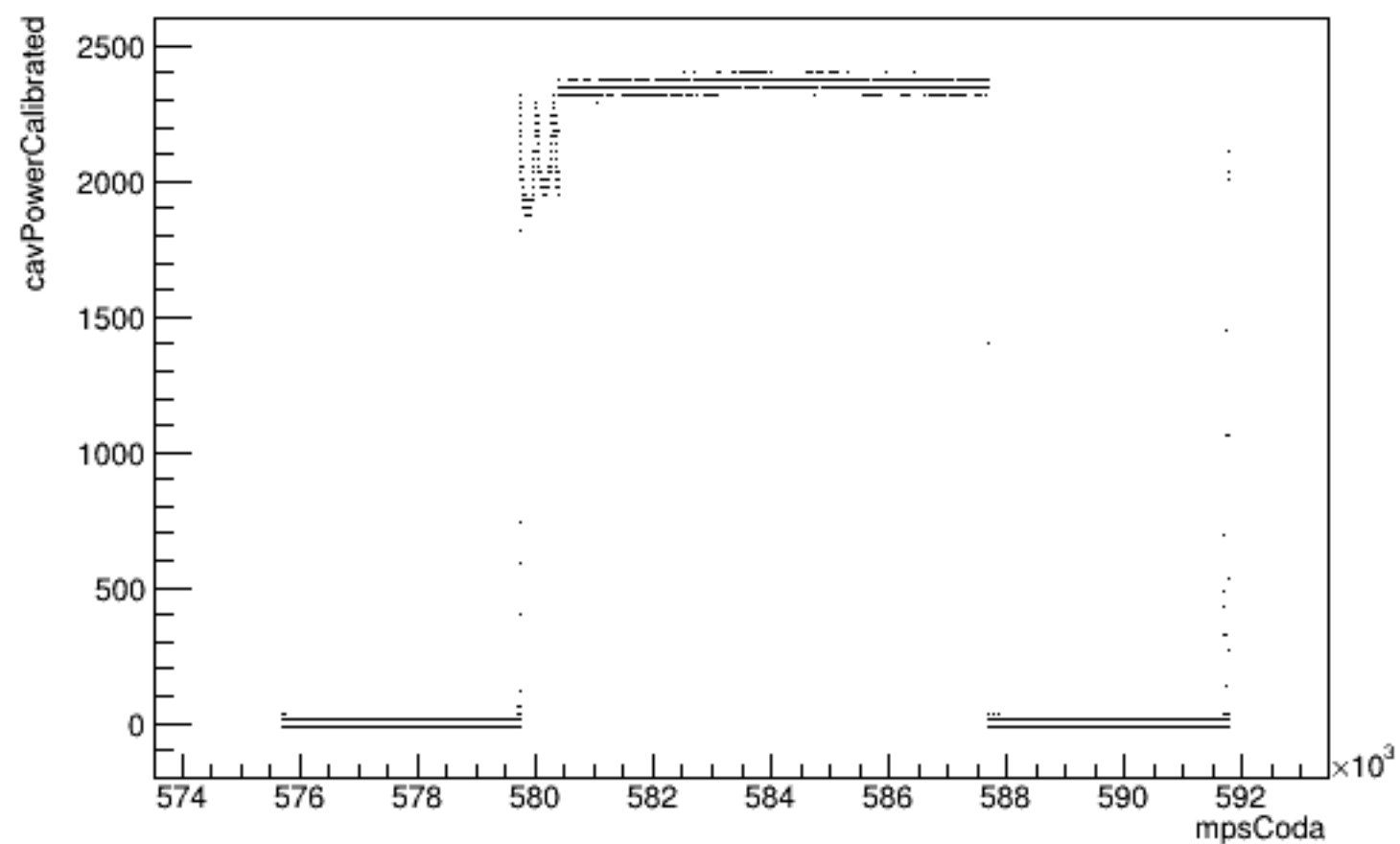
laserState:mpsCoda {mpsCoda&gt;=575696 &amp;&amp; mpsCoda&lt;=591783}



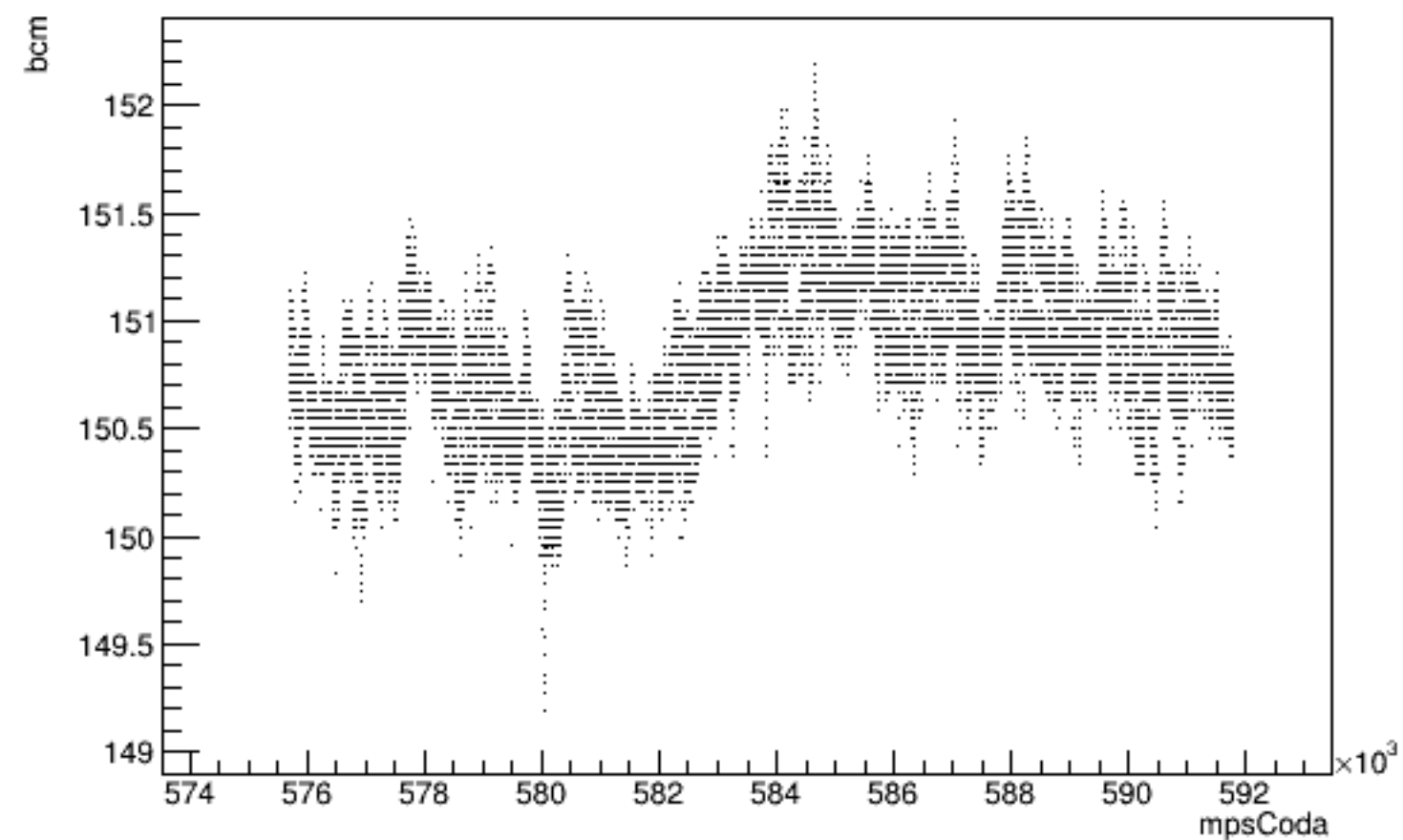
beamState + 1:mpsCoda {mpsCoda&gt;=575696 &amp;&amp; mpsCoda&lt;=591783}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=575696 &amp;&amp; mpsCoda&lt;=591783}



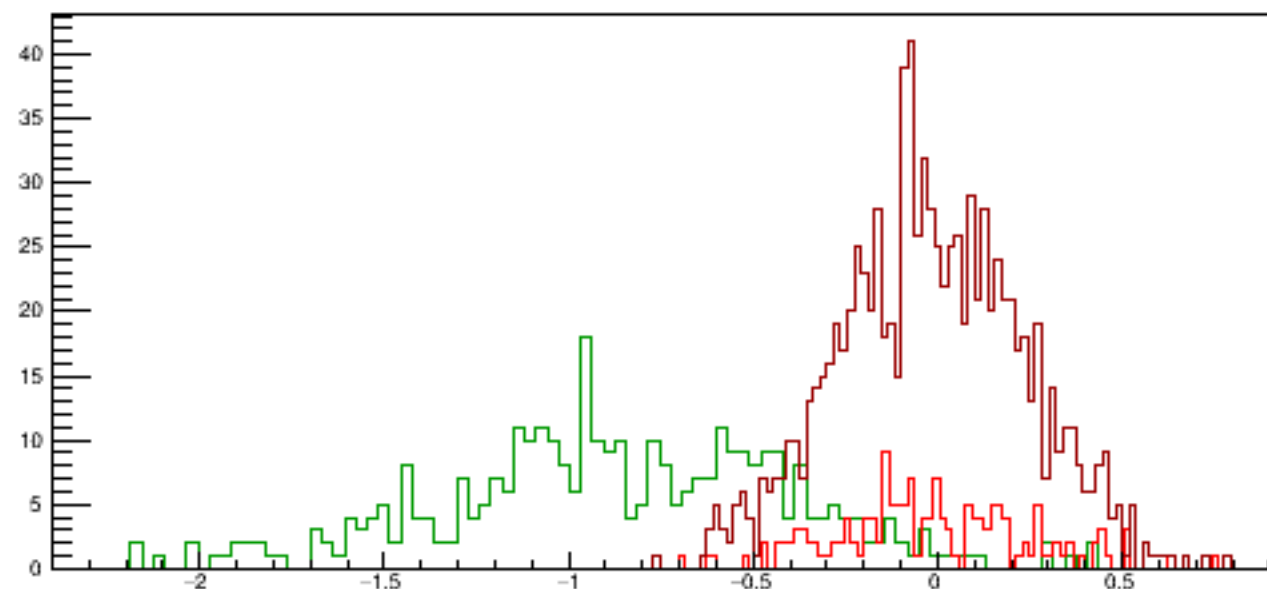
bcm:mpsCoda {mpsCoda&gt;=575696 &amp;&amp; mpsCoda&lt;=591783}



## Cycle 15, Diffs

| Entries: 158               | Entries: 355               | Entries: 974               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0218 +/- 0.0208   | Mean: -0.8685 +/- 0.0252   | Mean: -0.0170 +/- 0.0080   |
| Std Dev: 0.2616 +/- 0.0147 | Std Dev: 0.4740 +/- 0.0178 | Std Dev: 0.2505 +/- 0.0057 |

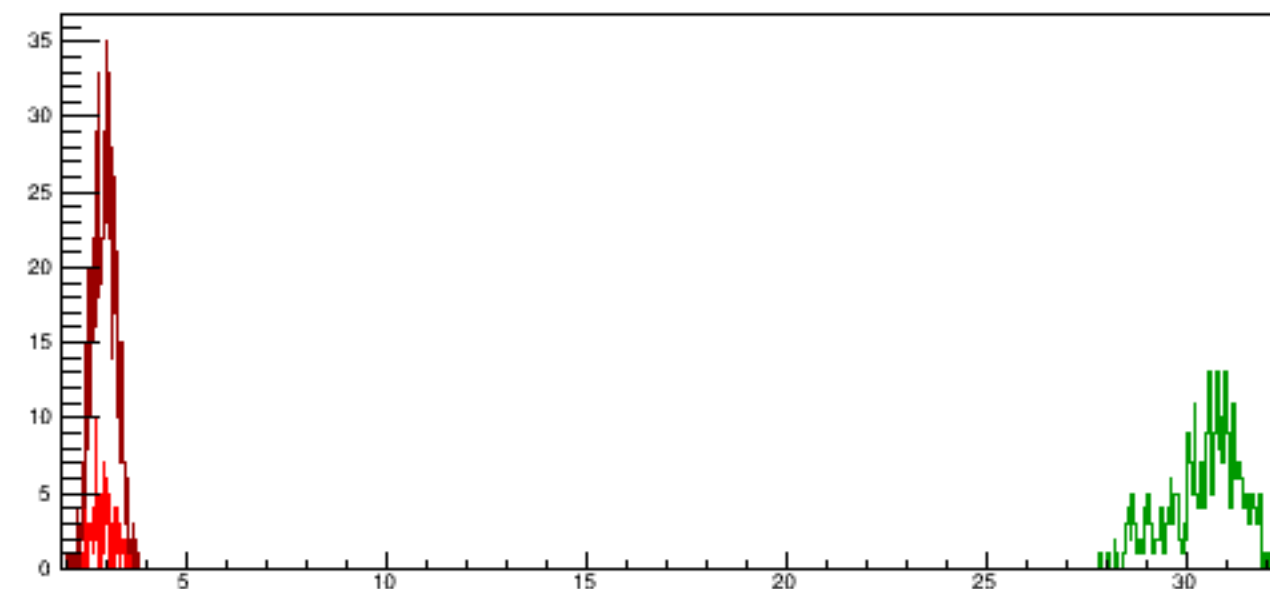
Run 5317 quartetwise, Diffs



## Cycle 15, Sums

| Entries: 158               | Entries: 355               | Entries: 974               |
|----------------------------|----------------------------|----------------------------|
| Mean: 2.9118 +/- 0.0249    | Mean: 30.4519 +/- 0.0479   | Mean: 2.9427 +/- 0.0092    |
| Std Dev: 0.3128 +/- 0.0176 | Std Dev: 0.9027 +/- 0.0339 | Std Dev: 0.2861 +/- 0.0065 |

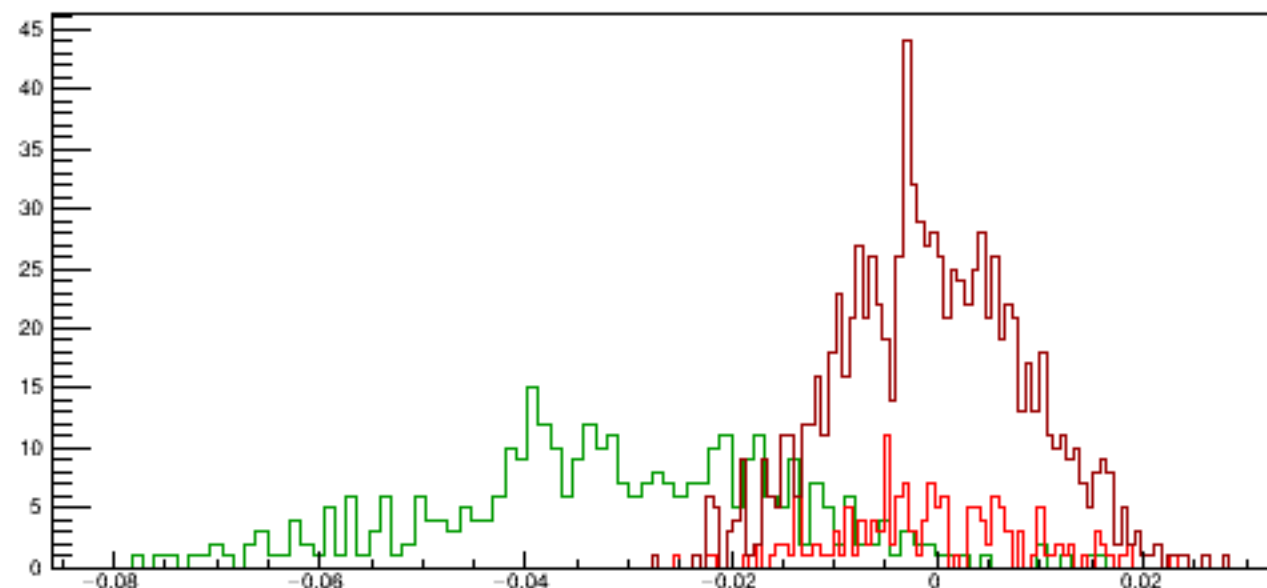
Run 5317 quartetwise, Sums



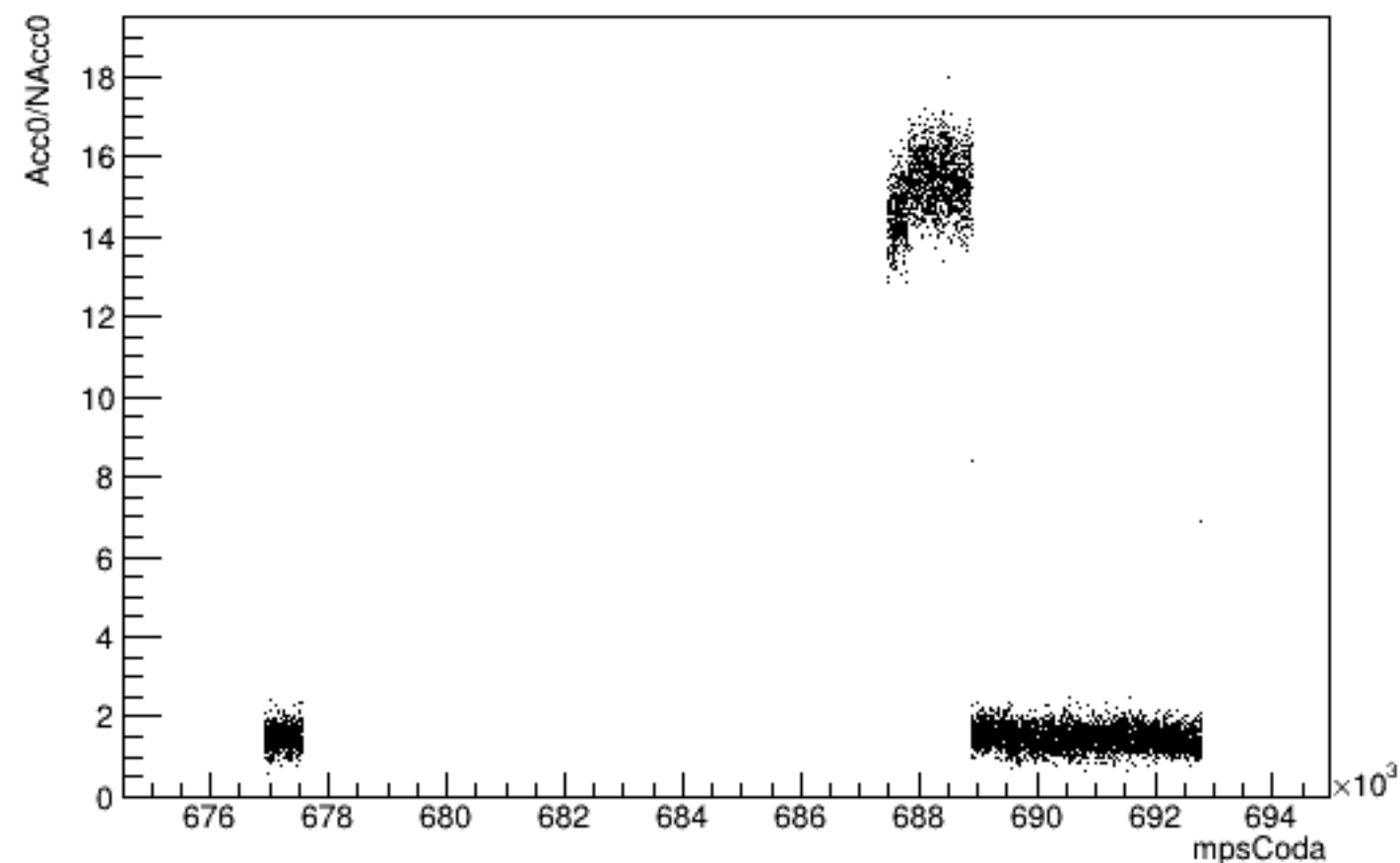
## Cycle 15, Asyms

| Entries: 158               | Entries: 355               | Entries: 974               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0008 +/- 0.0008   | Mean: -0.0316 +/- 0.0009   | Mean: -0.0006 +/- 0.0003   |
| Std Dev: 0.0095 +/- 0.0005 | Std Dev: 0.0172 +/- 0.0006 | Std Dev: 0.0091 +/- 0.0002 |

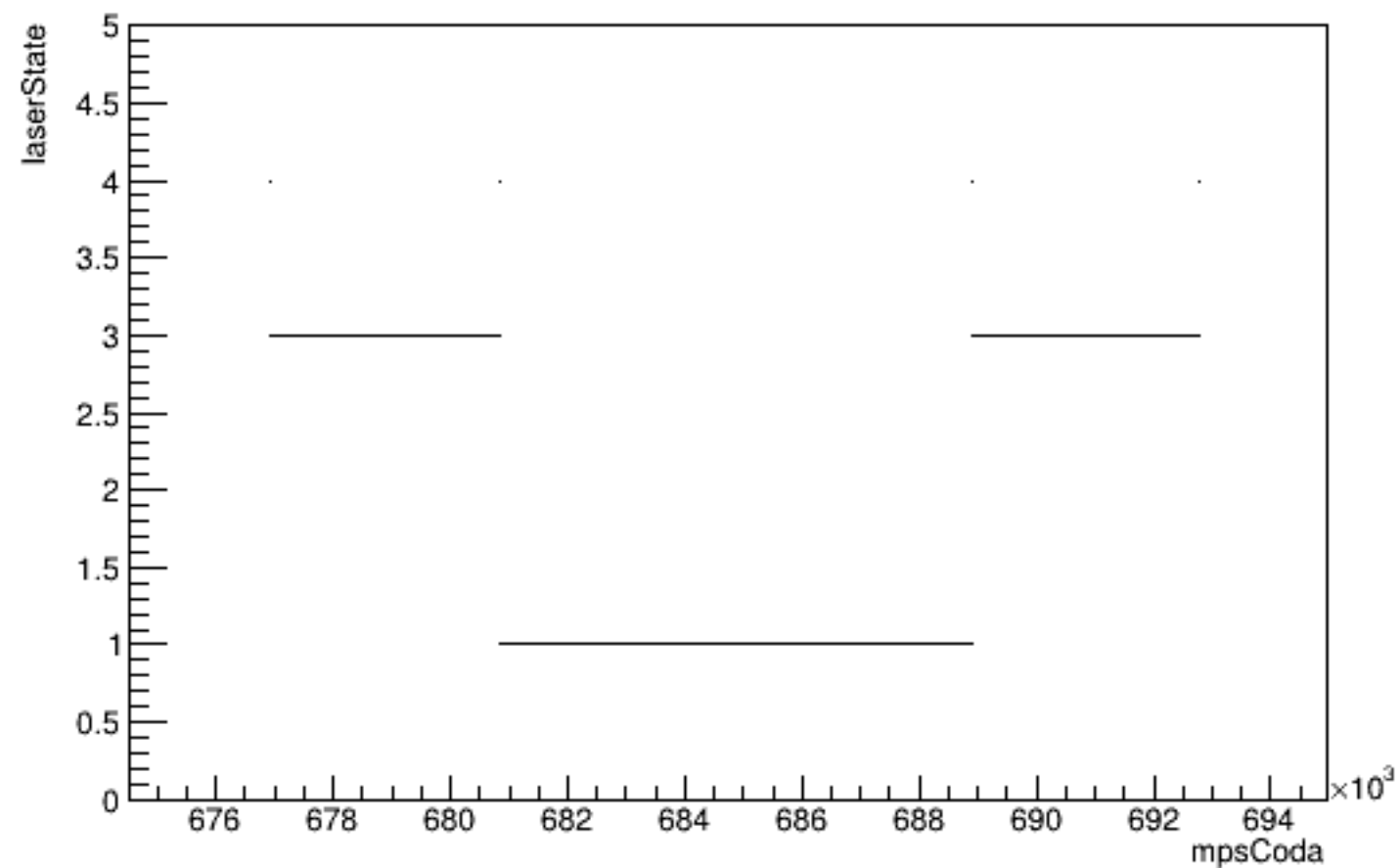
Run 5317 quartetwise, Asyms



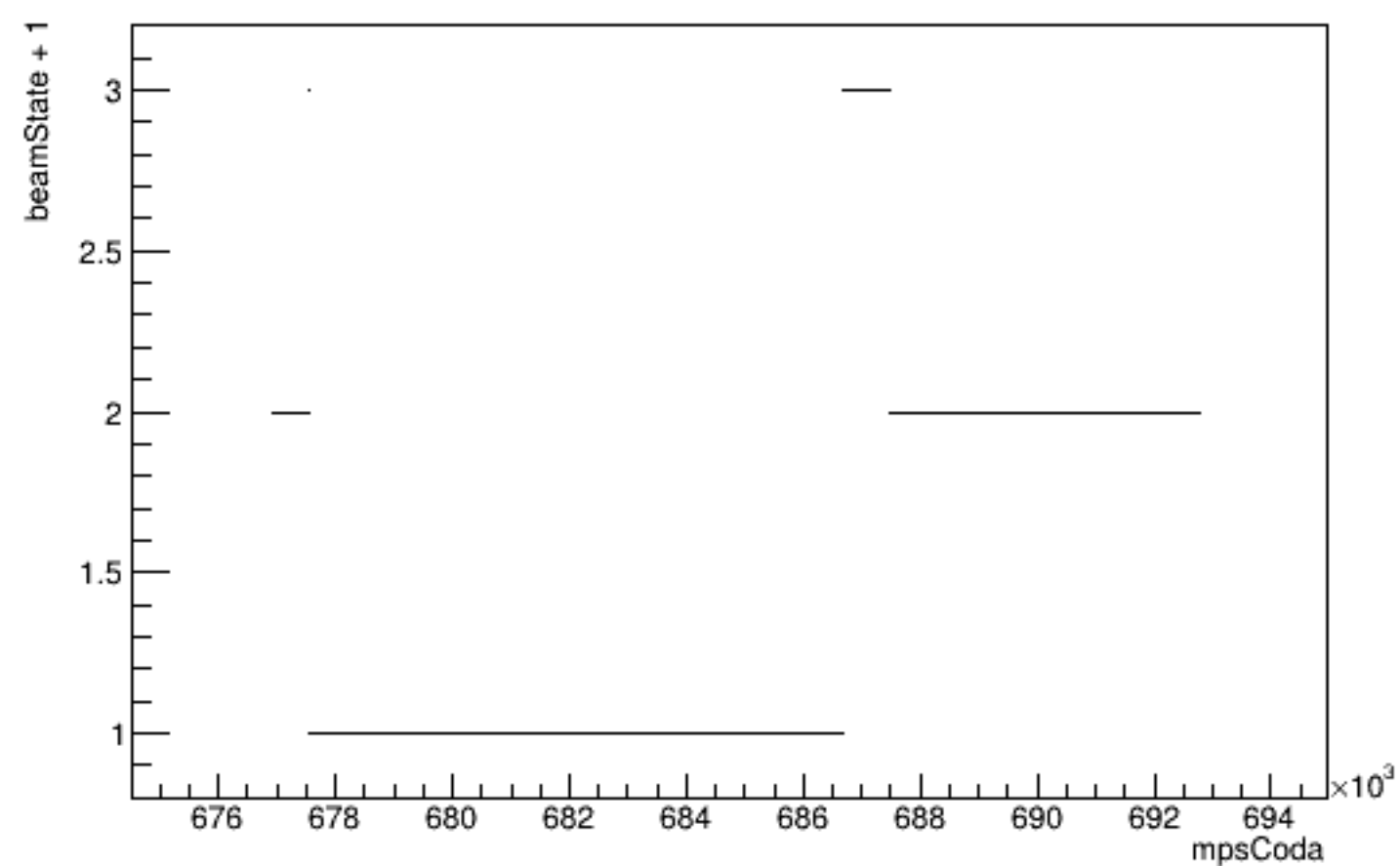
Acc0/NAcc0:mpsCoda (mpsCoda>=676912 && mpsCoda<=692795 && beamState==1)



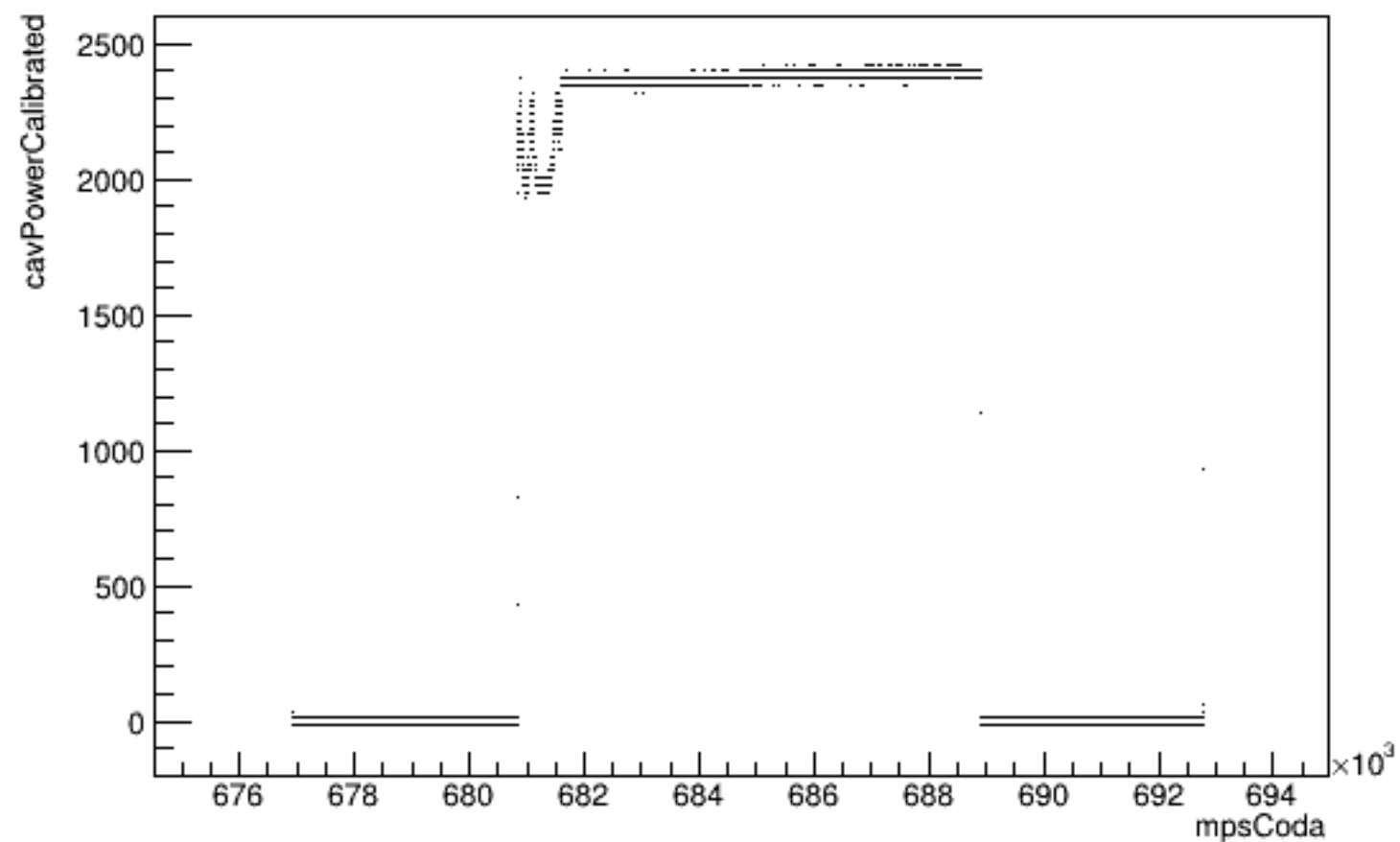
laserState:mpsCoda {mpsCoda&gt;=676912 &amp;&amp; mpsCoda&lt;=692795}



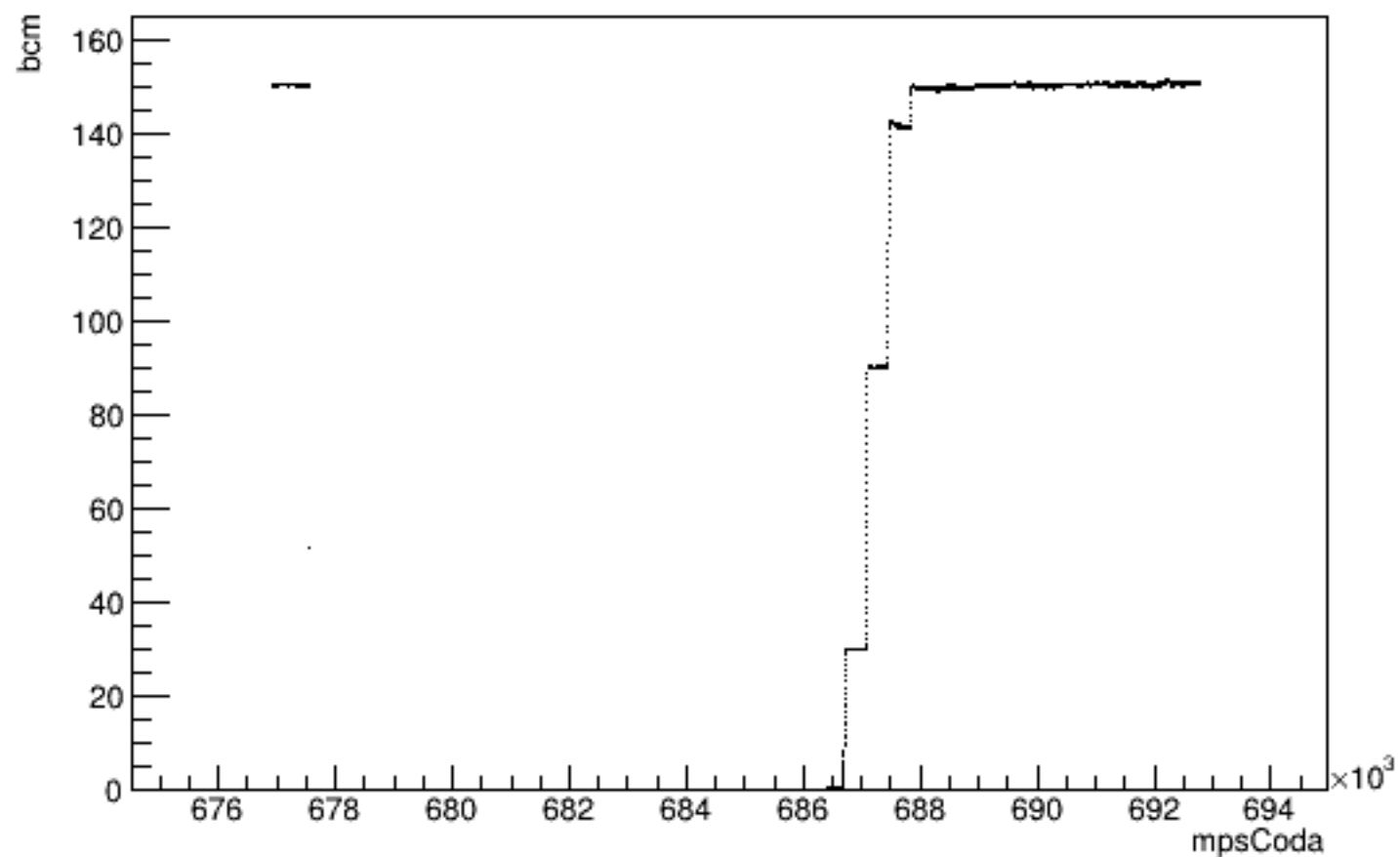
beamState + 1:mpsCoda {mpsCoda&gt;=676912 &amp;&amp; mpsCoda&lt;=692795}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=676912 &amp;&amp; mpsCoda&lt;=692795}



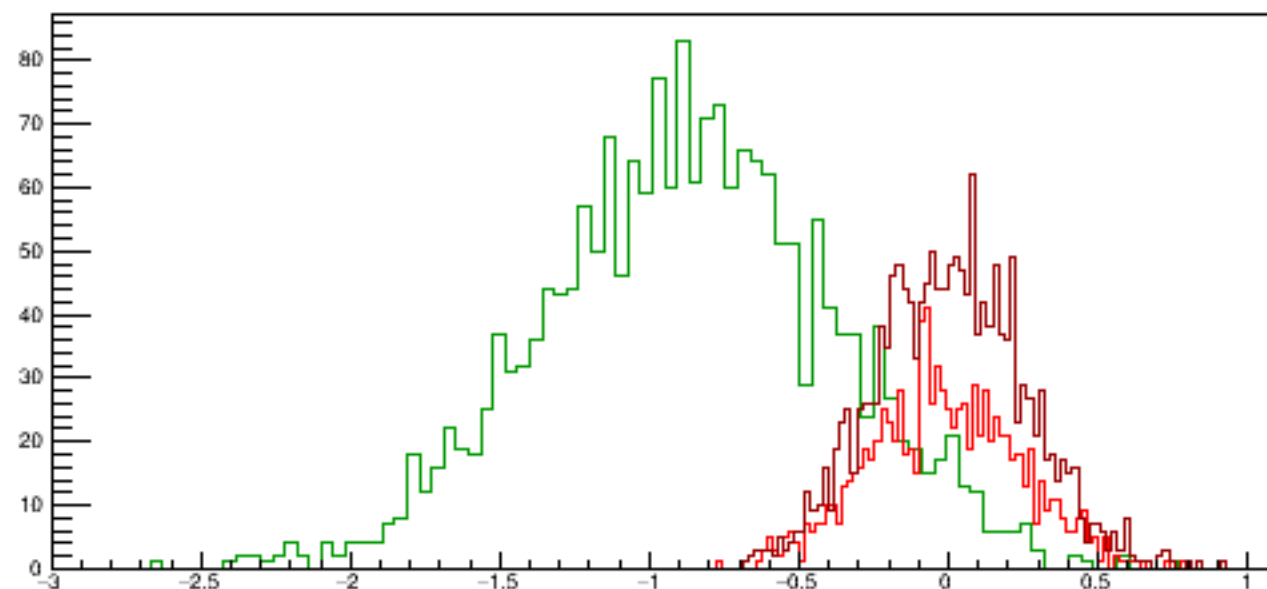
bcm:mpsCoda {mpsCoda&gt;=676912 &amp;&amp; mpsCoda&lt;=692795}



## Cycle 16, Diffs

| Entries: 974               | Entries: 2007              | Entries: 1617              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0170 +/- 0.0080   | Mean: -0.8710 +/- 0.0108   | Mean: 0.0037 +/- 0.0062    |
| Std Dev: 0.2505 +/- 0.0057 | Std Dev: 0.4849 +/- 0.0077 | Std Dev: 0.2511 +/- 0.0044 |

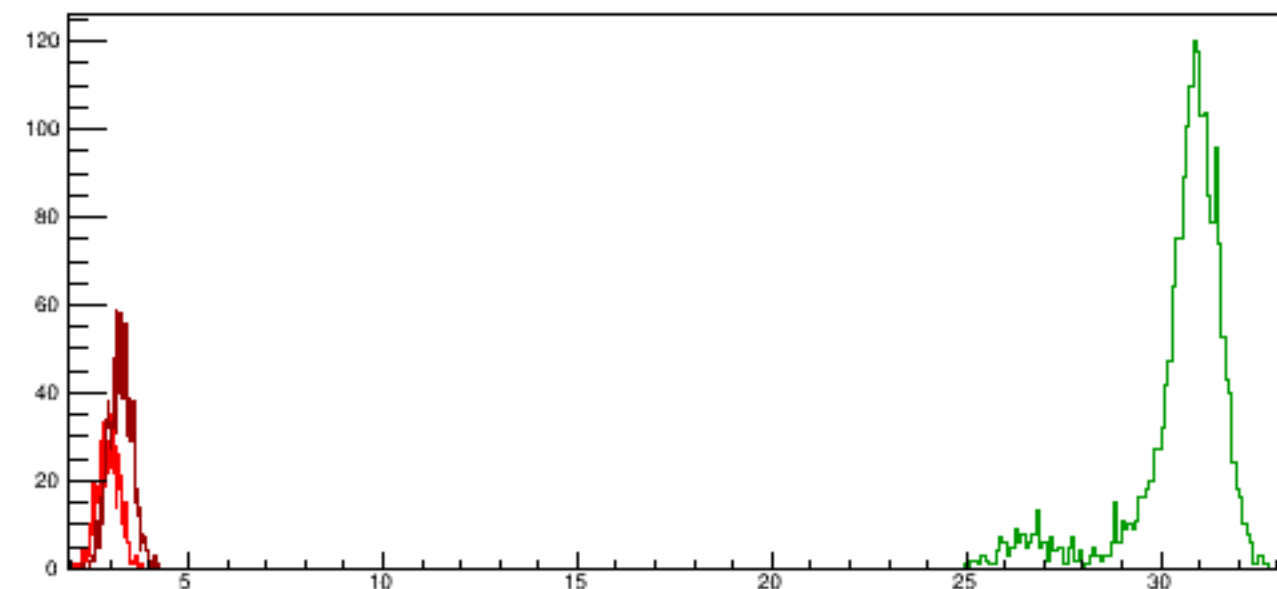
Run 5317 quartetwise, Diffs



## Cycle 16, Sums

| Entries: 974               | Entries: 2007              | Entries: 1617              |
|----------------------------|----------------------------|----------------------------|
| Mean: 2.9427 +/- 0.0092    | Mean: 30.5068 +/- 0.0289   | Mean: 3.2512 +/- 0.0074    |
| Std Dev: 0.2861 +/- 0.0065 | Std Dev: 1.2960 +/- 0.0205 | Std Dev: 0.2993 +/- 0.0053 |

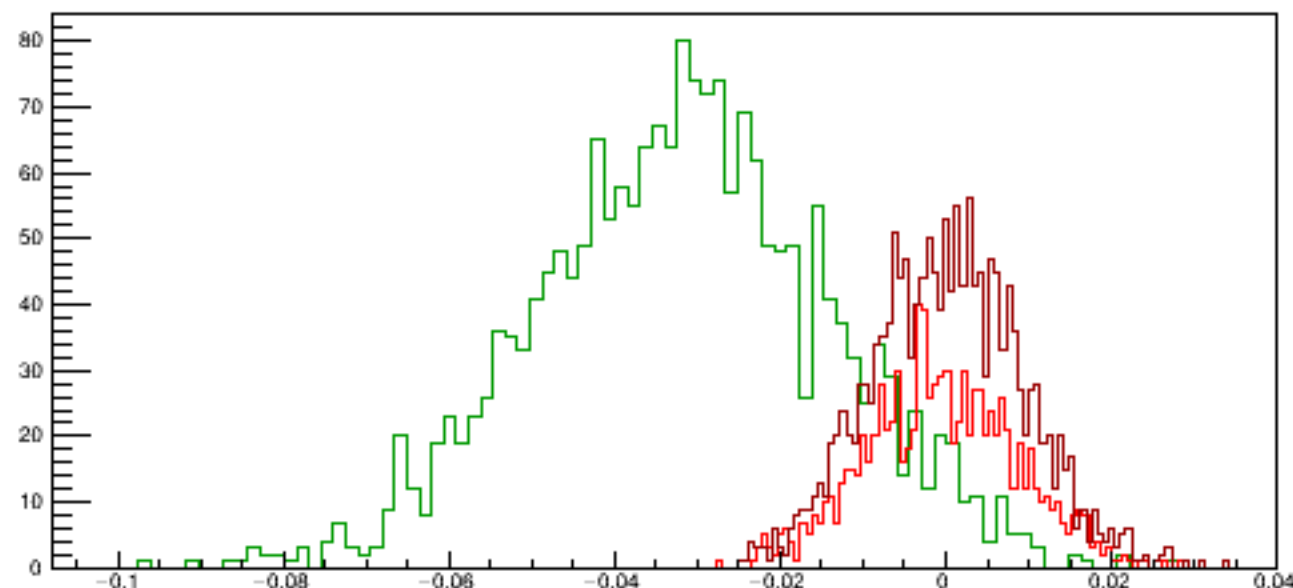
Run 5317 quartetwise, Sums



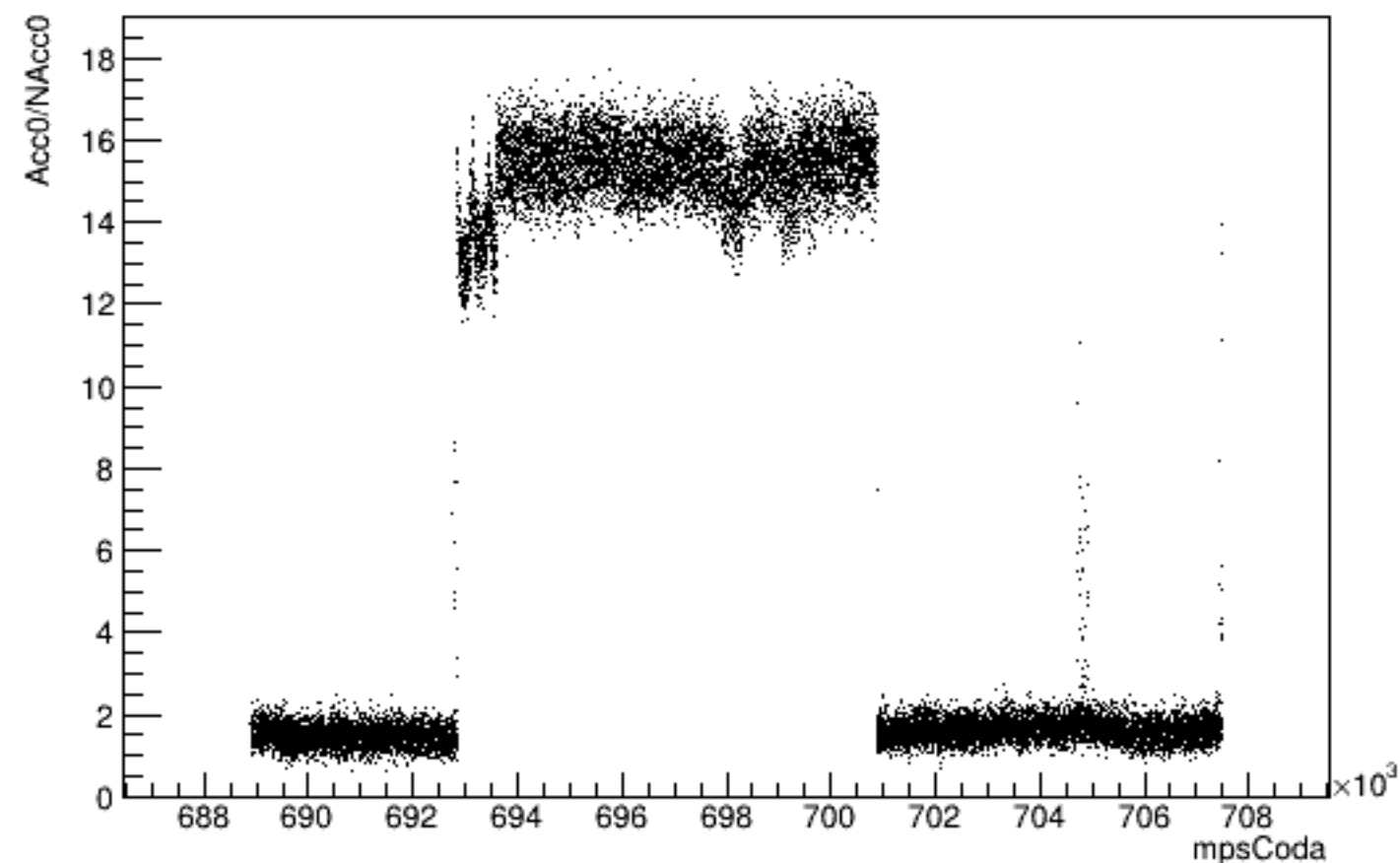
## Cycle 16, Asyms

| Entries: 974               | Entries: 2007              | Entries: 1617              |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0006 +/- 0.0003   | Mean: -0.0318 +/- 0.0004   | Mean: 0.0001 +/- 0.0002    |
| Std Dev: 0.0091 +/- 0.0002 | Std Dev: 0.0177 +/- 0.0003 | Std Dev: 0.0092 +/- 0.0002 |

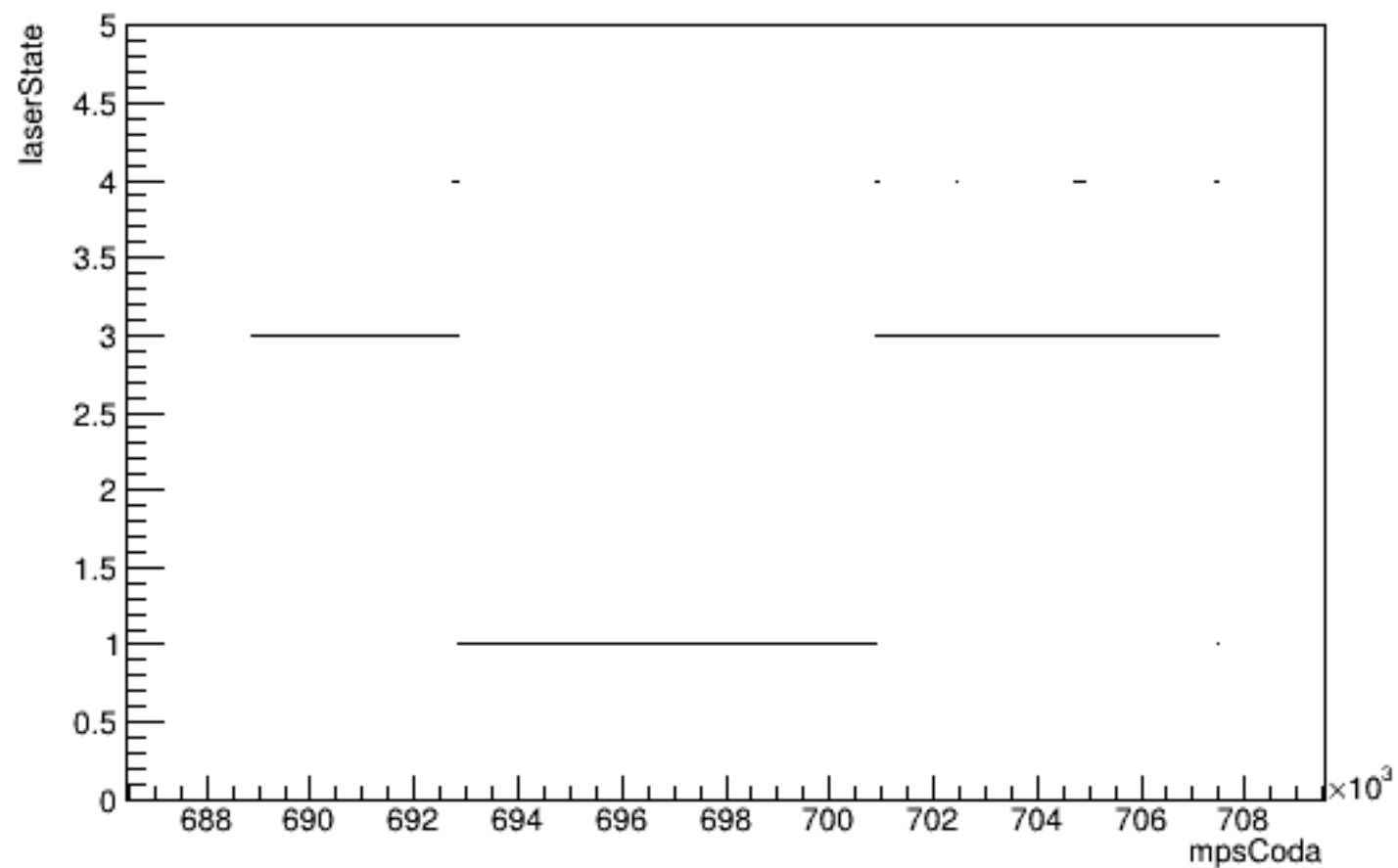
Run 5317 quartetwise, Asyms



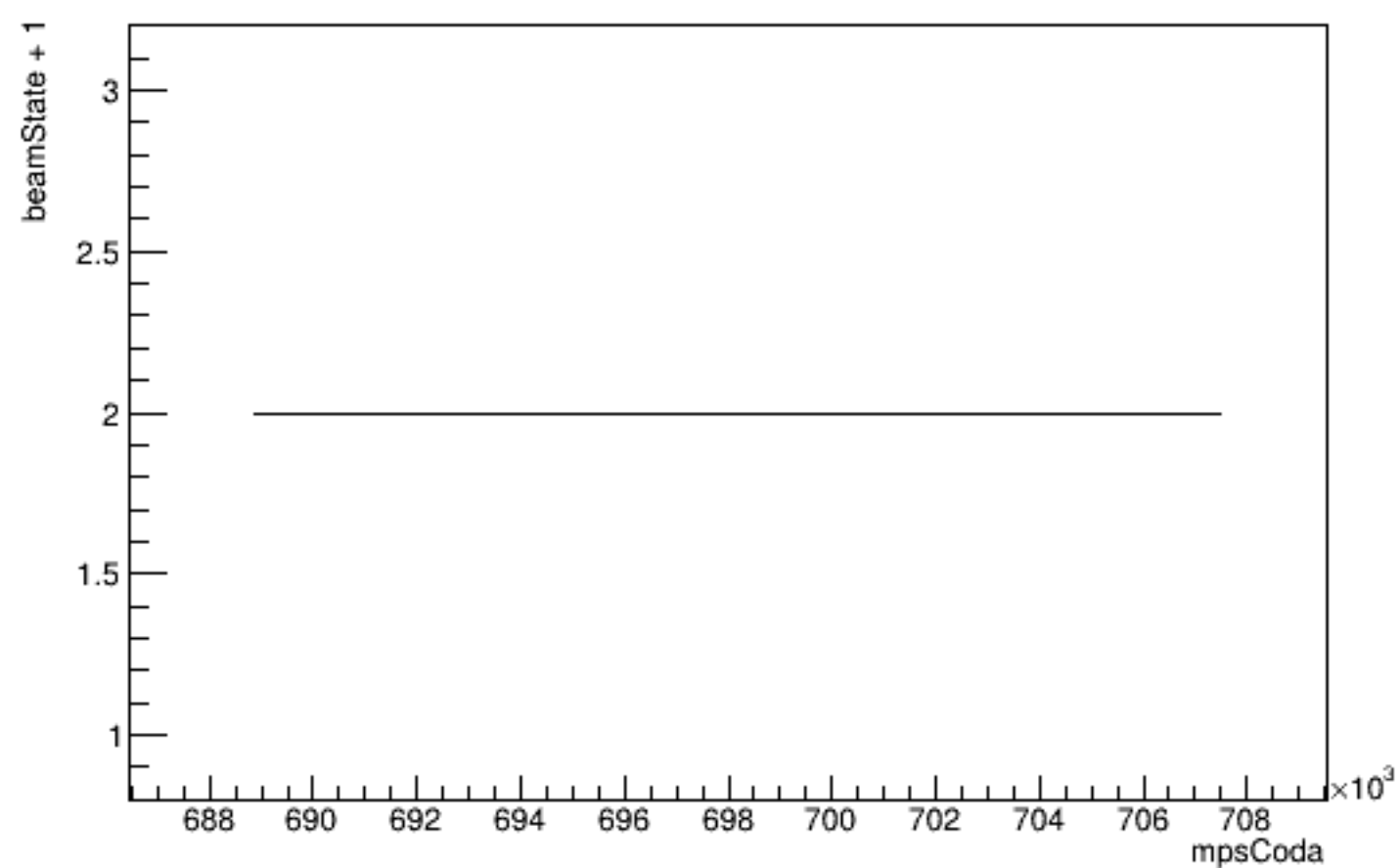
Acc0/NAcc0:mpsCoda (mpsCoda>=688896 && mpsCoda<=707479 && beamState==1)



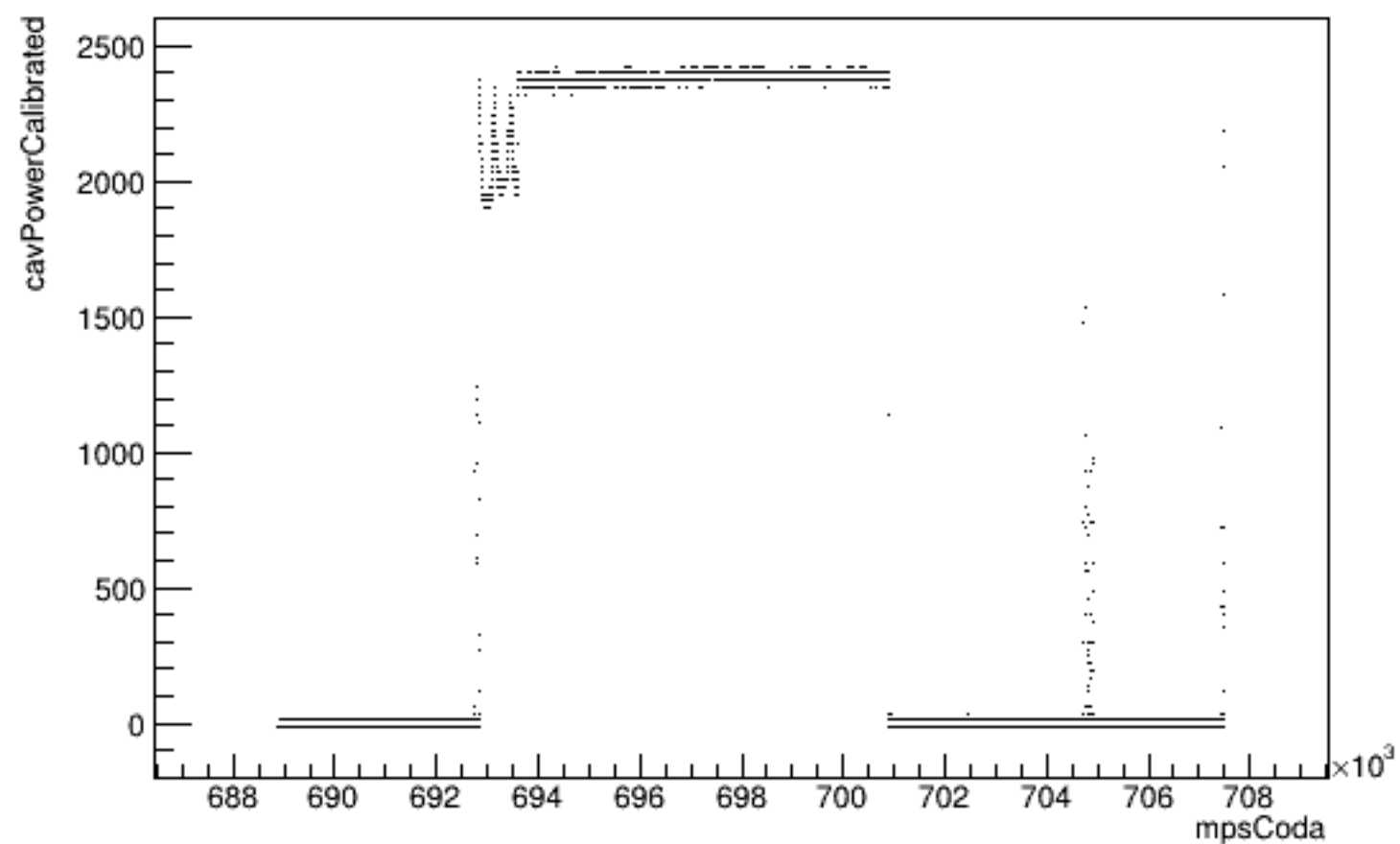
laserState:mpsCoda {mpsCoda&gt;=688896 &amp;&amp; mpsCoda&lt;=707479}



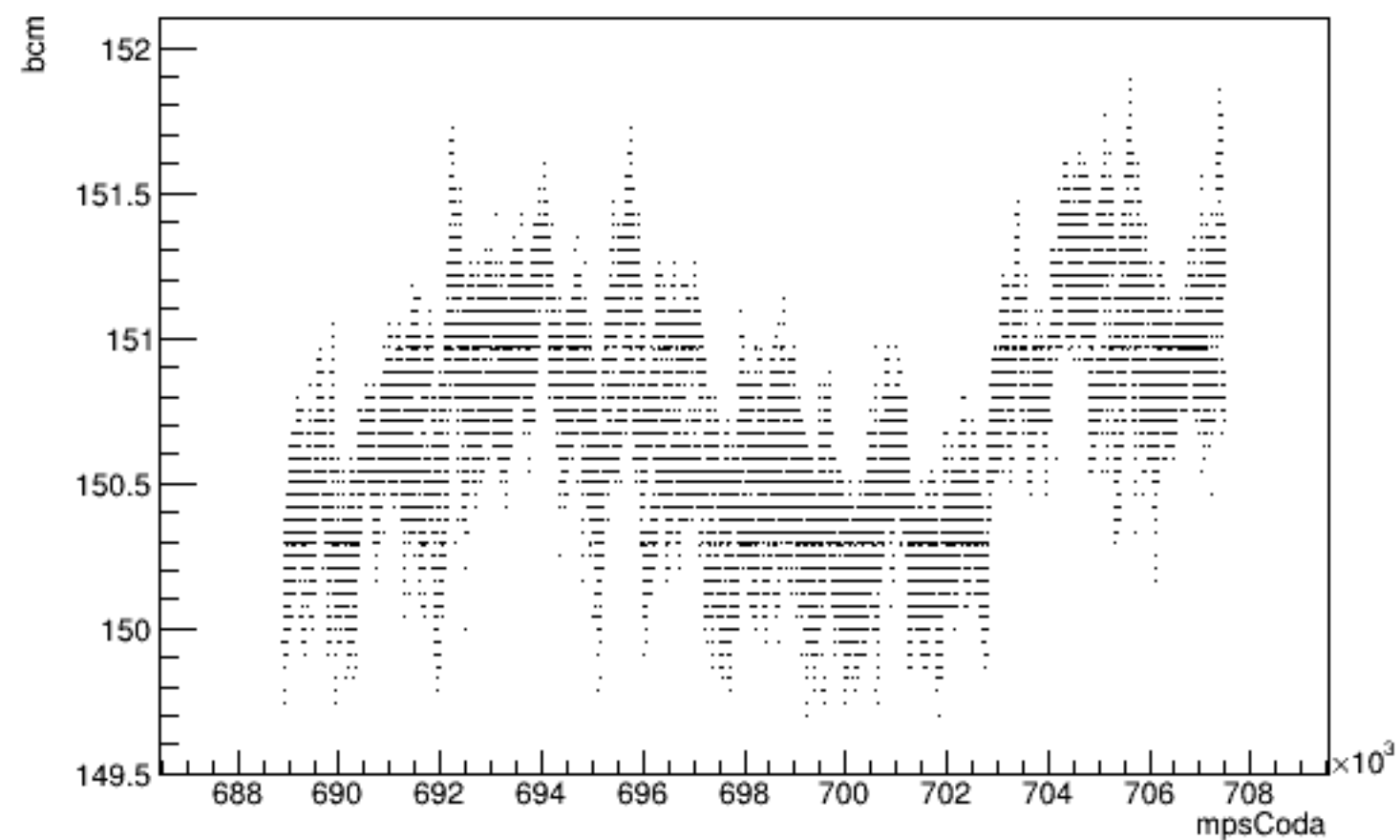
beamState + 1:mpsCoda {mpsCoda&gt;=688896 &amp;&amp; mpsCoda&lt;=707479}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=688896 &amp;&amp; mpsCoda&lt;=707479}



bcm:mpsCoda {mpsCoda&gt;=688896 &amp;&amp; mpsCoda&lt;=707479}



## Cycle 17, Diffs

Entries: 1617

Mean: 0.0037 +/- 0.0062

Std Dev: 0.2511 +/- 0.0044

Entries: 1952

Mean: -0.8710 +/- 0.0108

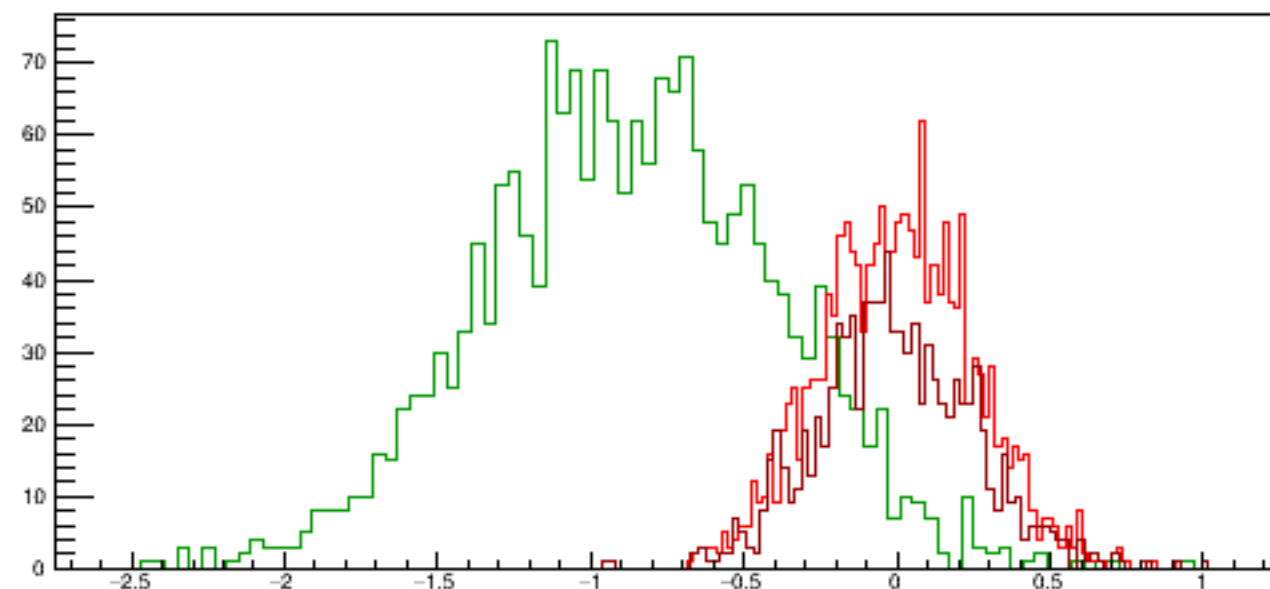
Std Dev: 0.4765 +/- 0.0076

Entries: 955

Mean: -0.0068 +/- 0.0083

Std Dev: 0.2556 +/- 0.0058

Run 5317 quartetwise, Diffs



## Cycle 17, Sums

Entries: 1617

Mean: 3.2512 +/- 0.0074

Std Dev: 0.2993 +/- 0.0053

Entries: 1952

Mean: 30.7617 +/- 0.0298

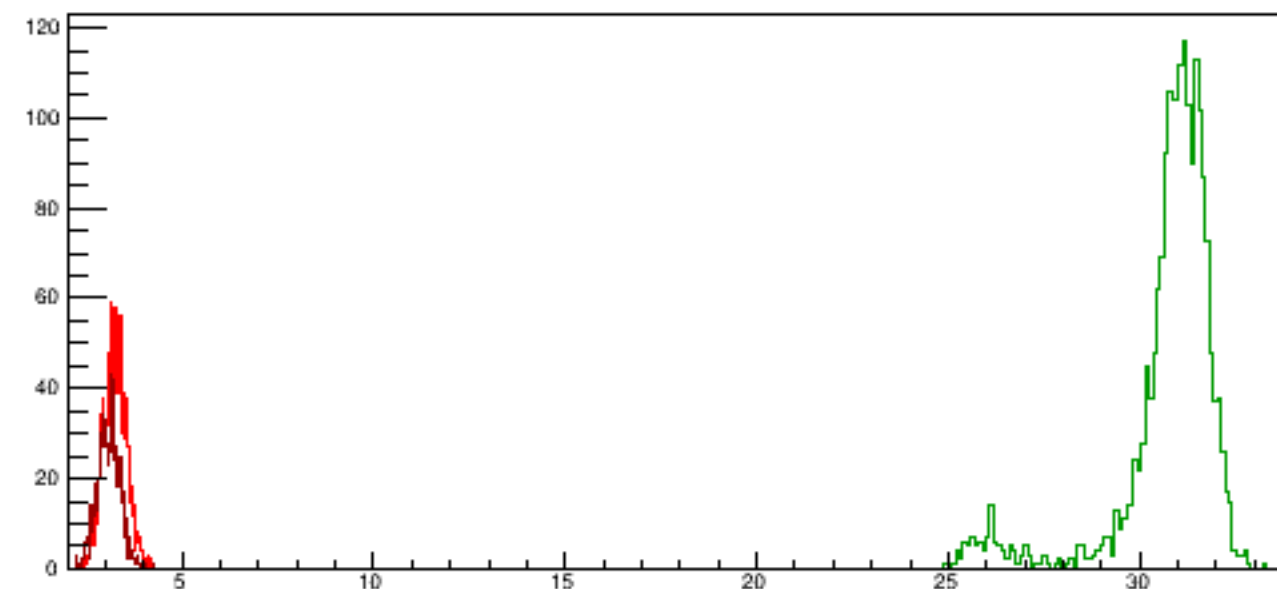
Std Dev: 1.3172 +/- 0.0211

Entries: 955

Mean: 3.0883 +/- 0.0094

Std Dev: 0.2915 +/- 0.0067

Run 5317 quartetwise, Sums



## Cycle 17, Asyms

Entries: 1617

Mean: 0.0001 +/- 0.0002

Std Dev: 0.0091 +/- 0.0002

Entries: 1952

Mean: -0.0316 +/- 0.0004

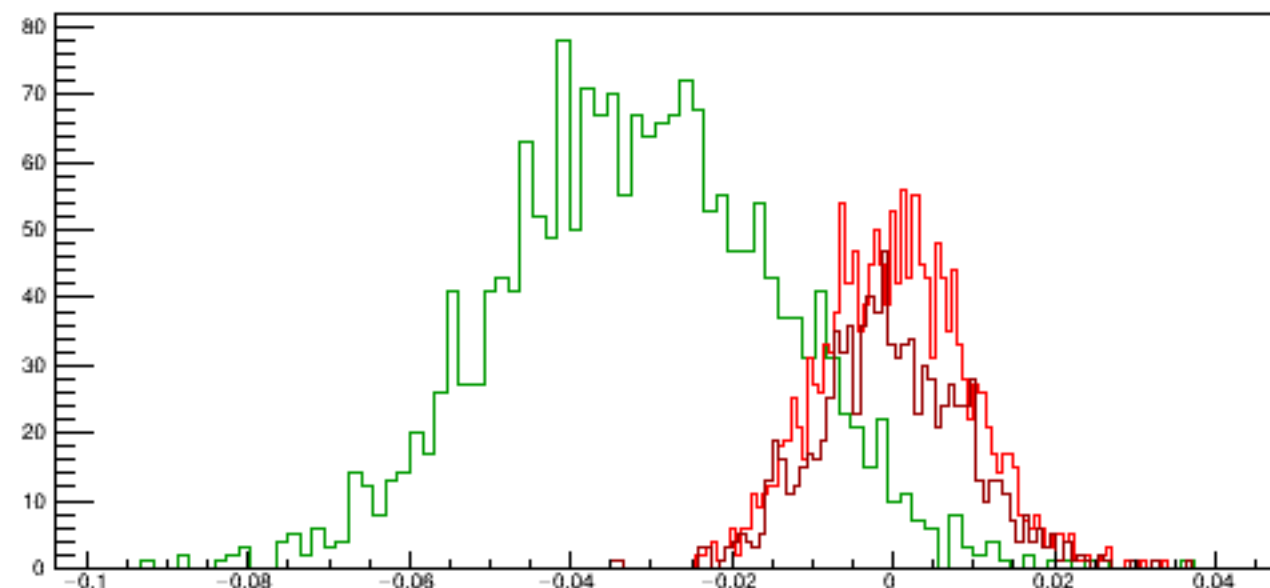
Std Dev: 0.0173 +/- 0.0003

Entries: 955

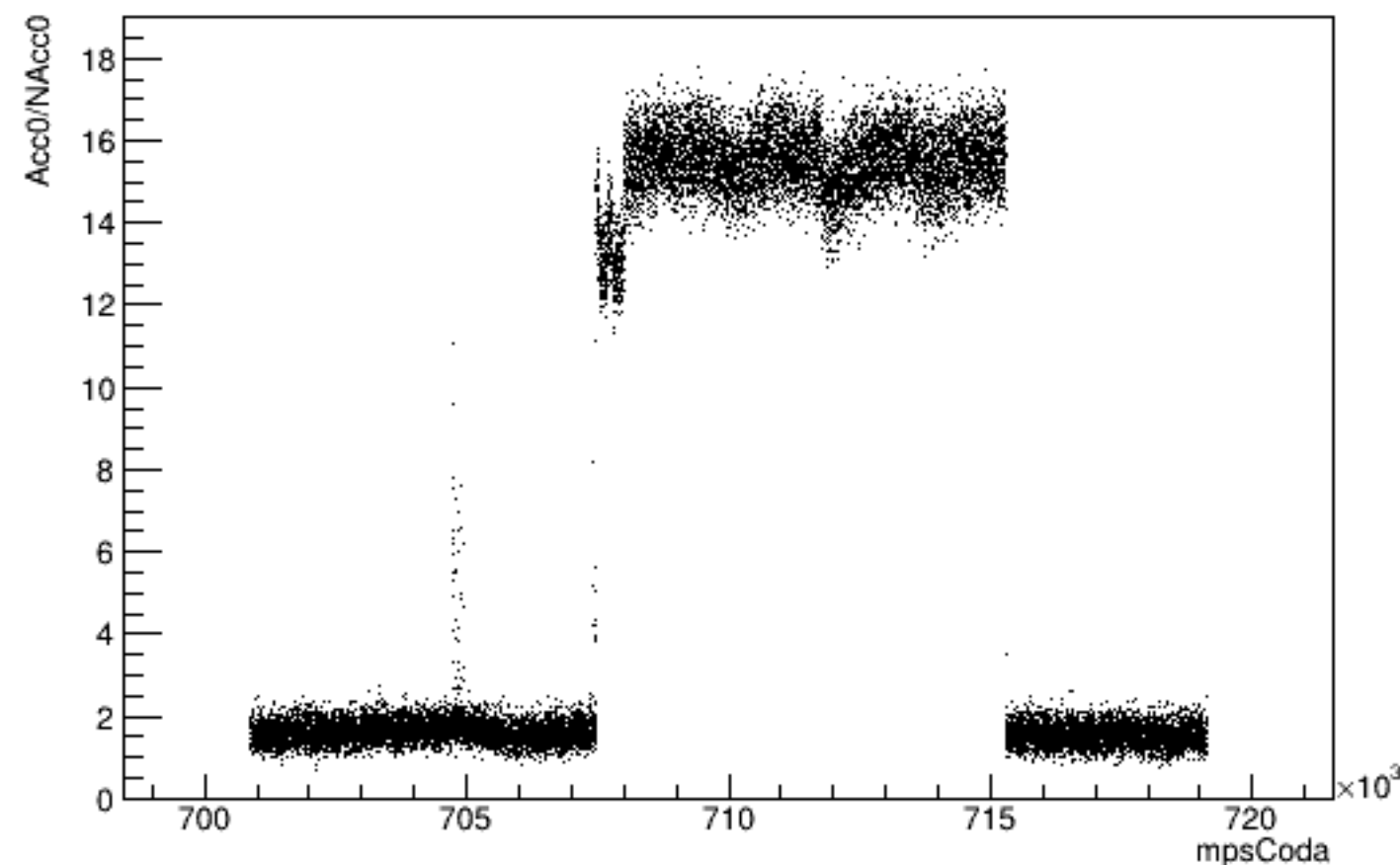
Mean: -0.0002 +/- 0.0003

Std Dev: 0.0093 +/- 0.0002

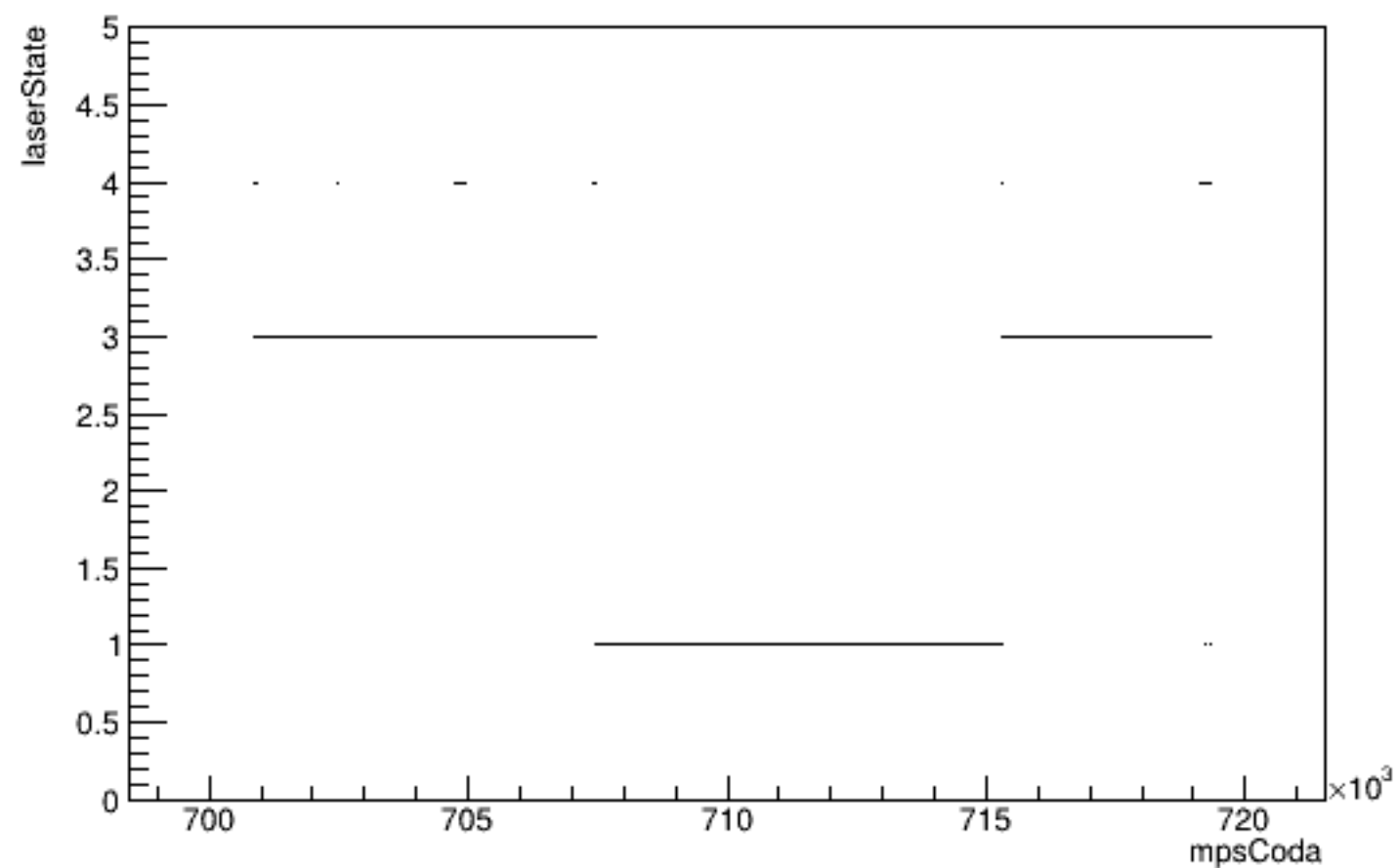
Run 5317 quartetwise, Asyms



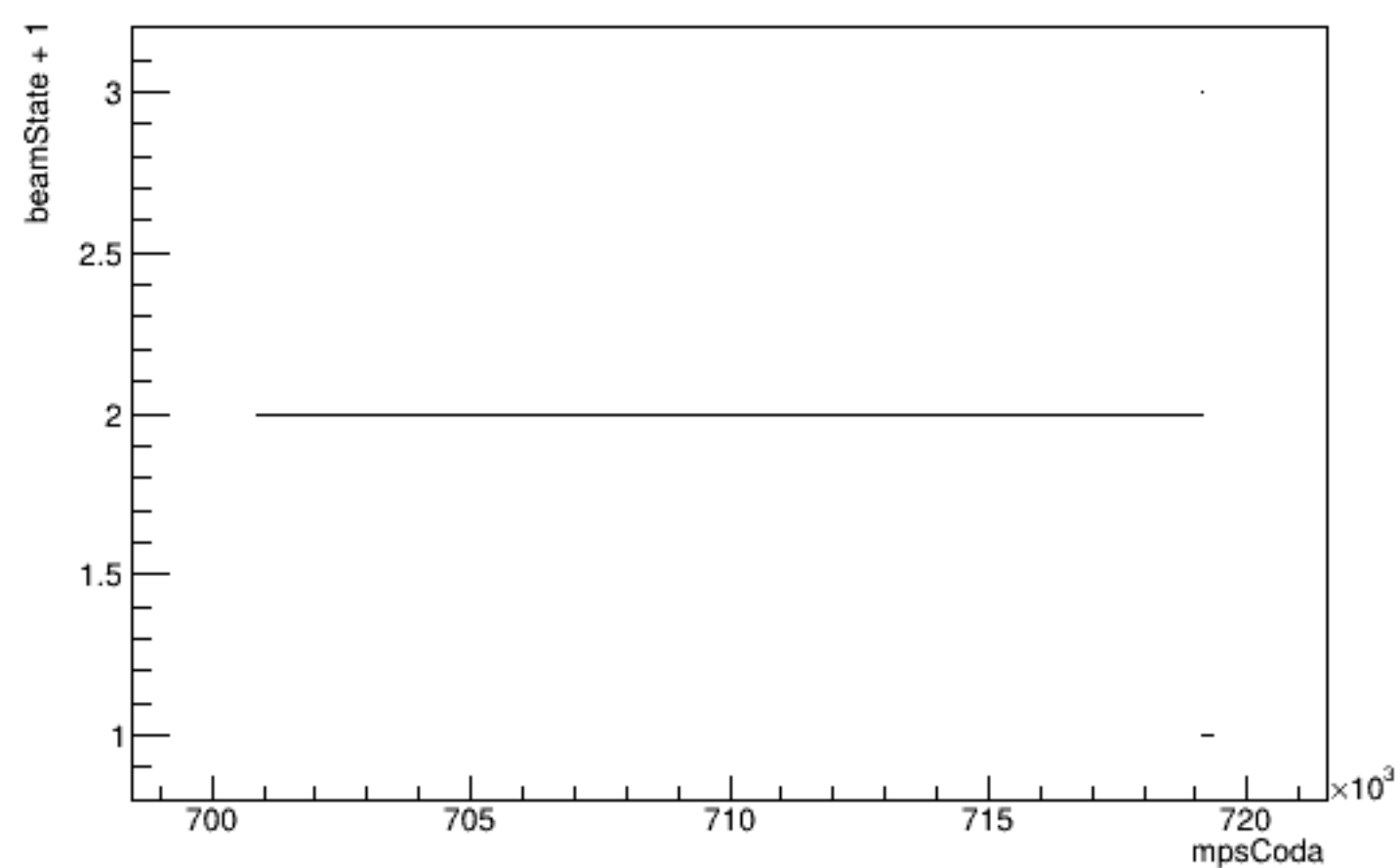
Acc0/NAcc0:mpsCoda (mpsCoda>=700880 && mpsCoda<=719335 && beamState==1)



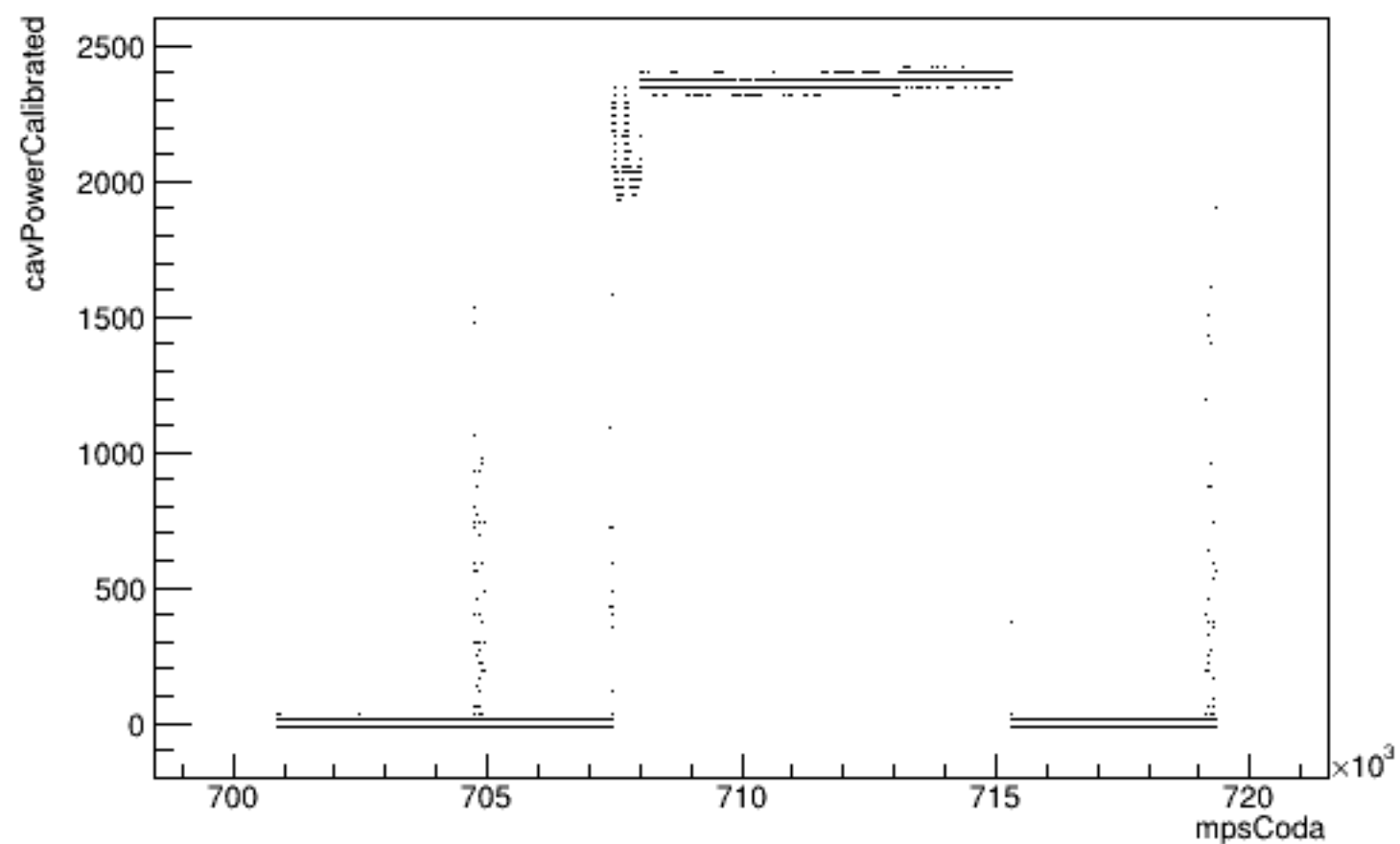
laserState:mpsCoda {mpsCoda&gt;=700880 &amp;&amp; mpsCoda&lt;=719335}



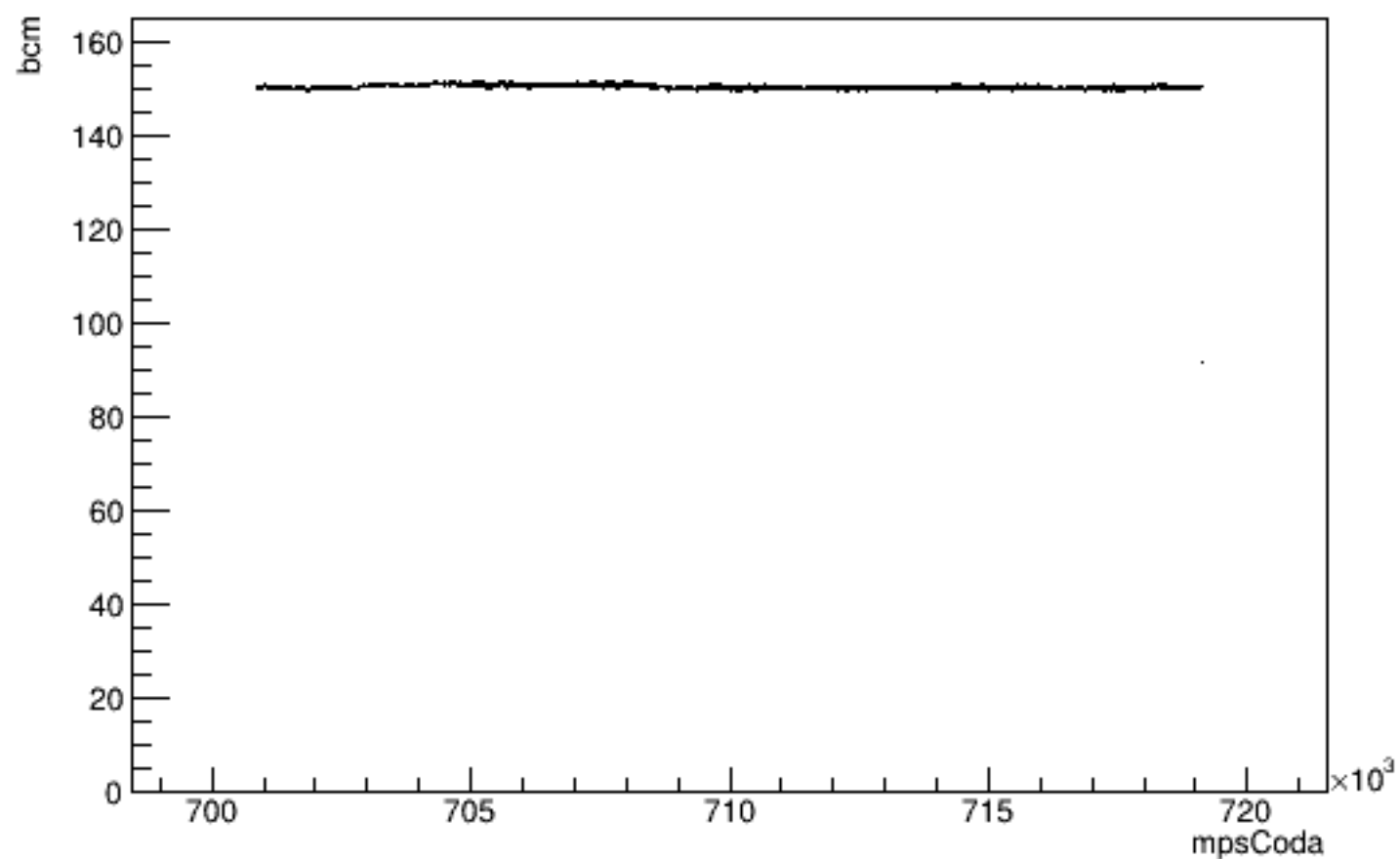
beamState + 1:mpsCoda {mpsCoda&gt;=700880 &amp;&amp; mpsCoda&lt;=719335}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=700880 &amp;&amp; mpsCoda&lt;=719335}



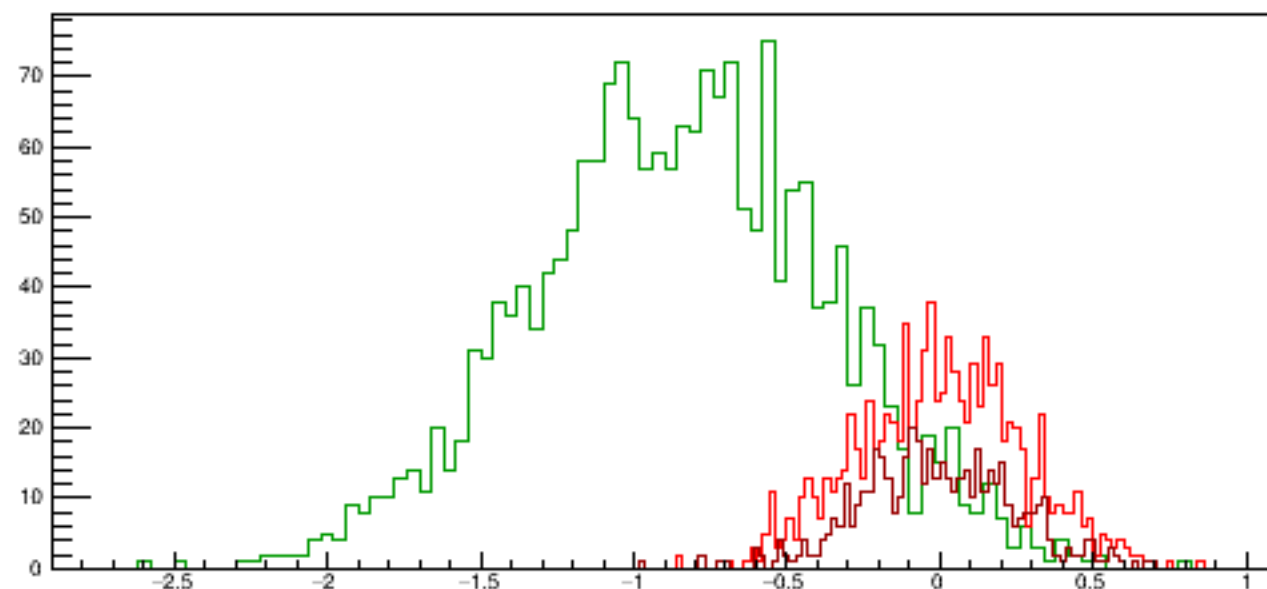
bcm:mpsCoda {mpsCoda&gt;=700880 &amp;&amp; mpsCoda&lt;=719335}



## Cycle 18, Diffs

| Entries: 959               | Entries: 2026              | Entries: 494               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0014 +/- 0.0086   | Mean: -0.8505 +/- 0.0108   | Mean: -0.0124 +/- 0.0116   |
| Std Dev: 0.2672 +/- 0.0061 | Std Dev: 0.4871 +/- 0.0077 | Std Dev: 0.2571 +/- 0.0082 |

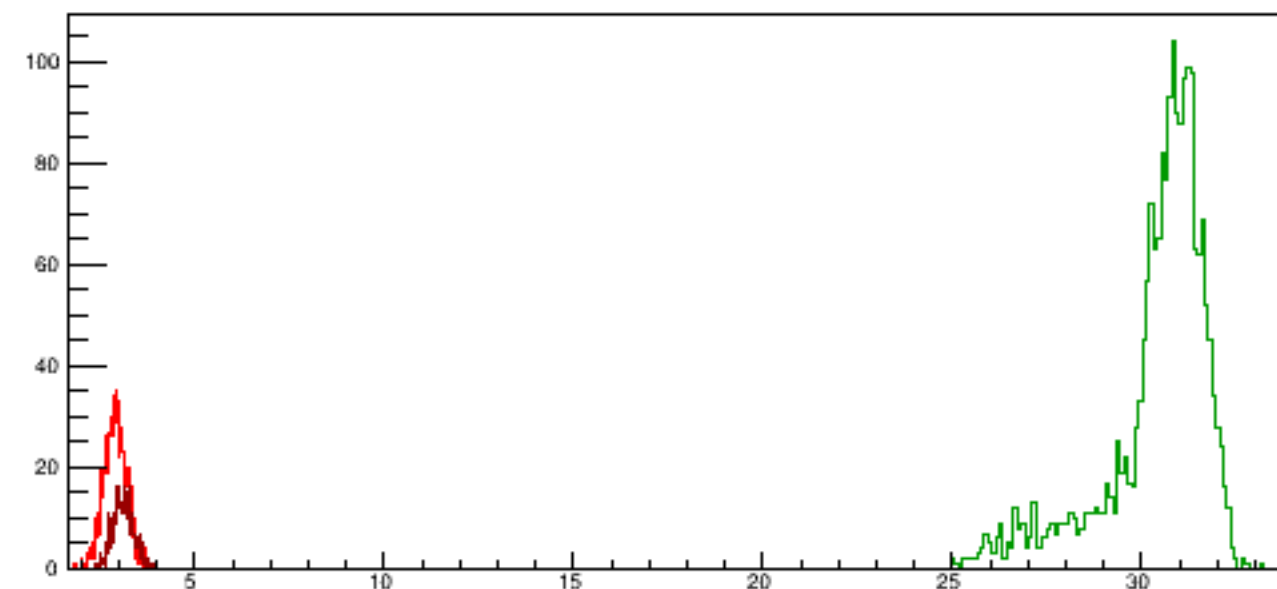
Run 5317 quartetwise, Diffs



## Cycle 18, Sums

| Entries: 959               | Entries: 2026              | Entries: 494               |
|----------------------------|----------------------------|----------------------------|
| Mean: 2.8834 +/- 0.0095    | Mean: 30.4126 +/- 0.0307   | Mean: 3.1043 +/- 0.0122    |
| Std Dev: 0.2955 +/- 0.0067 | Std Dev: 1.3810 +/- 0.0217 | Std Dev: 0.2712 +/- 0.0086 |

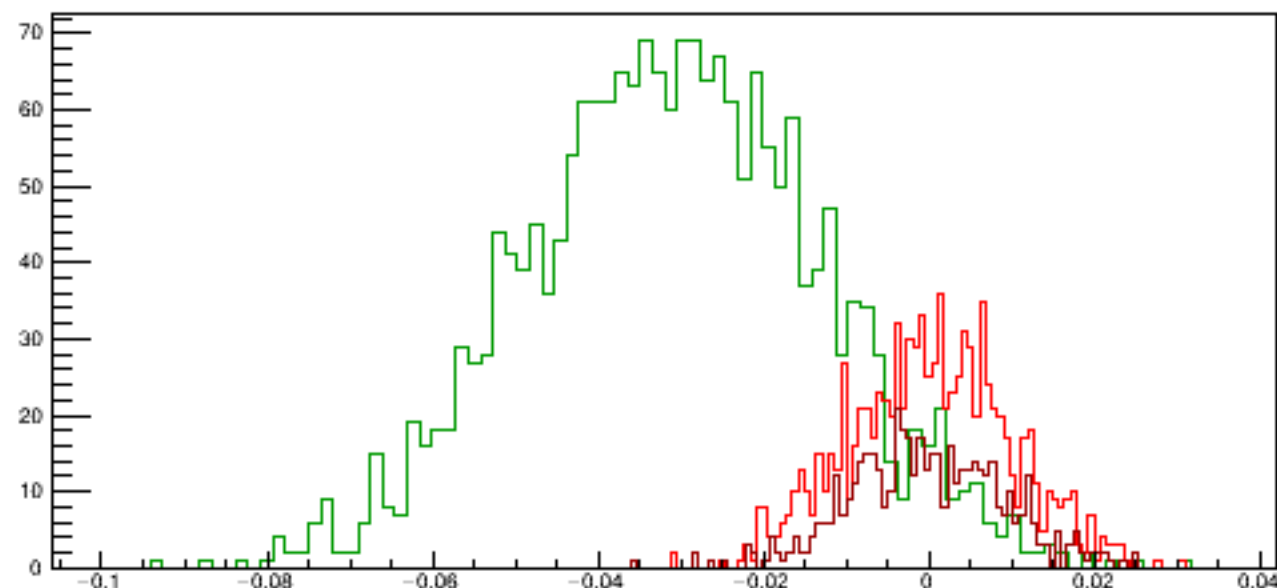
Run 5317 quartetwise, Sums



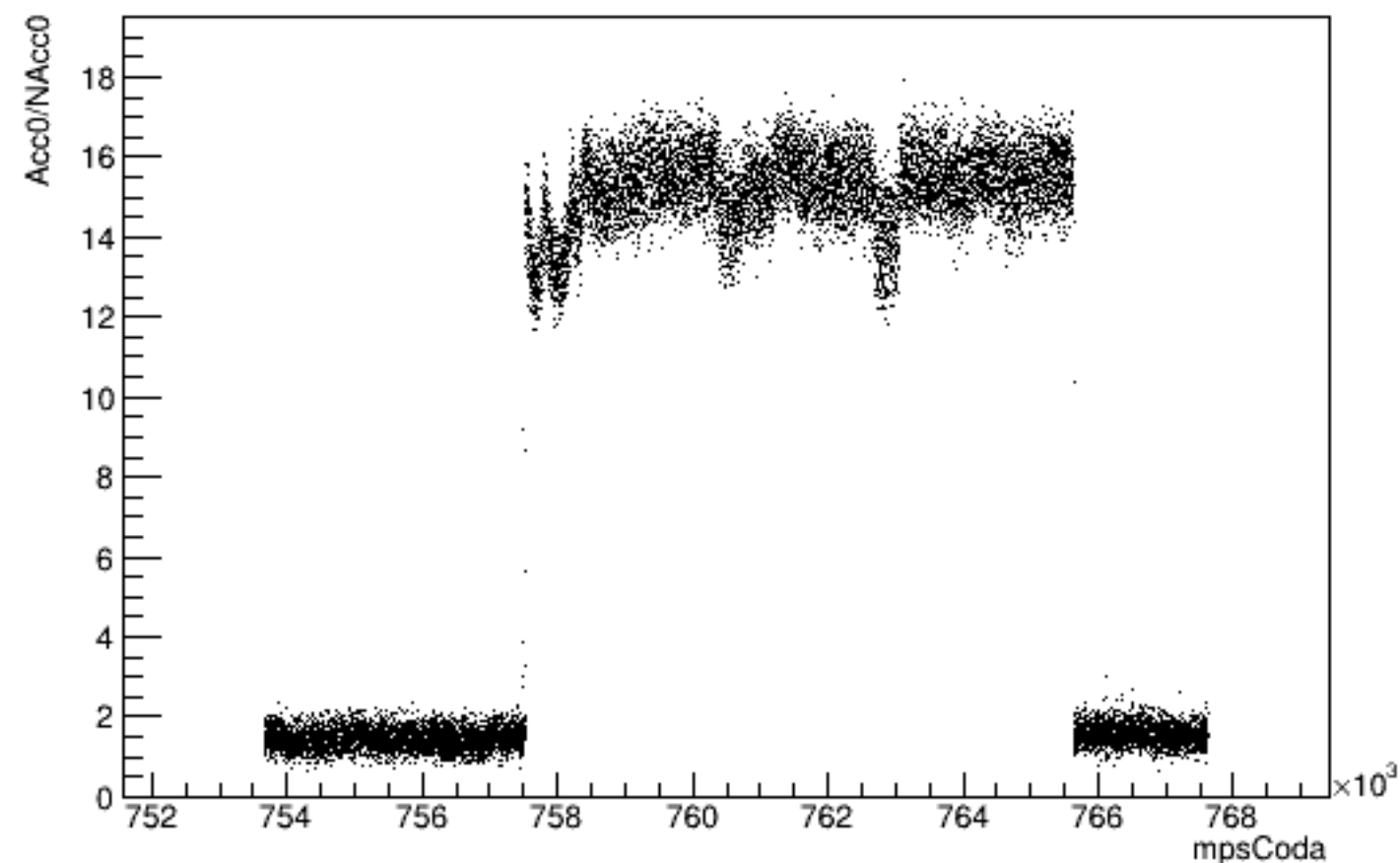
## Cycle 18, Asyms

| Entries: 959               | Entries: 2026              | Entries: 494               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0001 +/- 0.0003   | Mean: -0.0310 +/- 0.0004   | Mean: -0.0005 +/- 0.0004   |
| Std Dev: 0.0097 +/- 0.0002 | Std Dev: 0.0177 +/- 0.0003 | Std Dev: 0.0094 +/- 0.0003 |

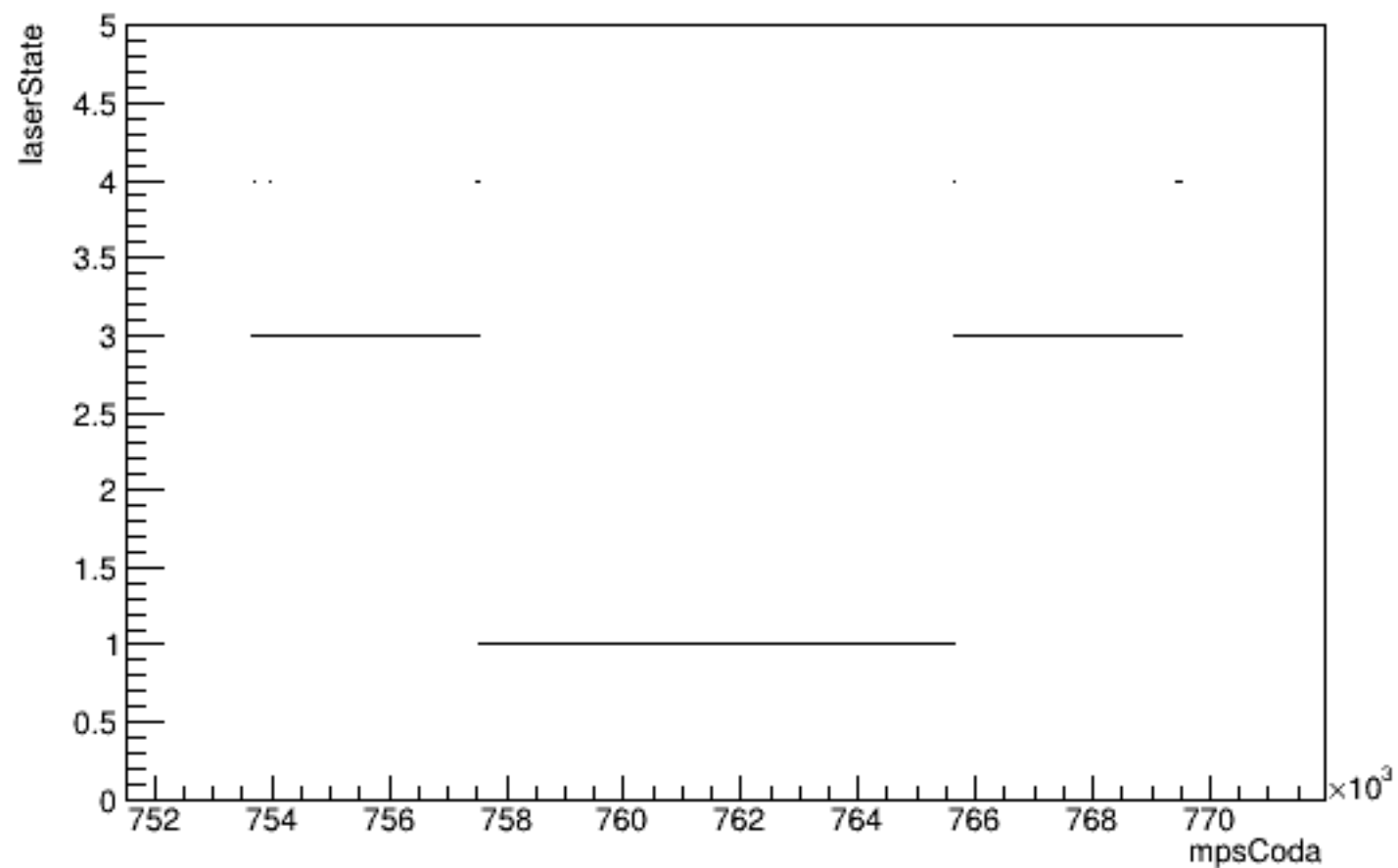
Run 5317 quartetwise, Asyms



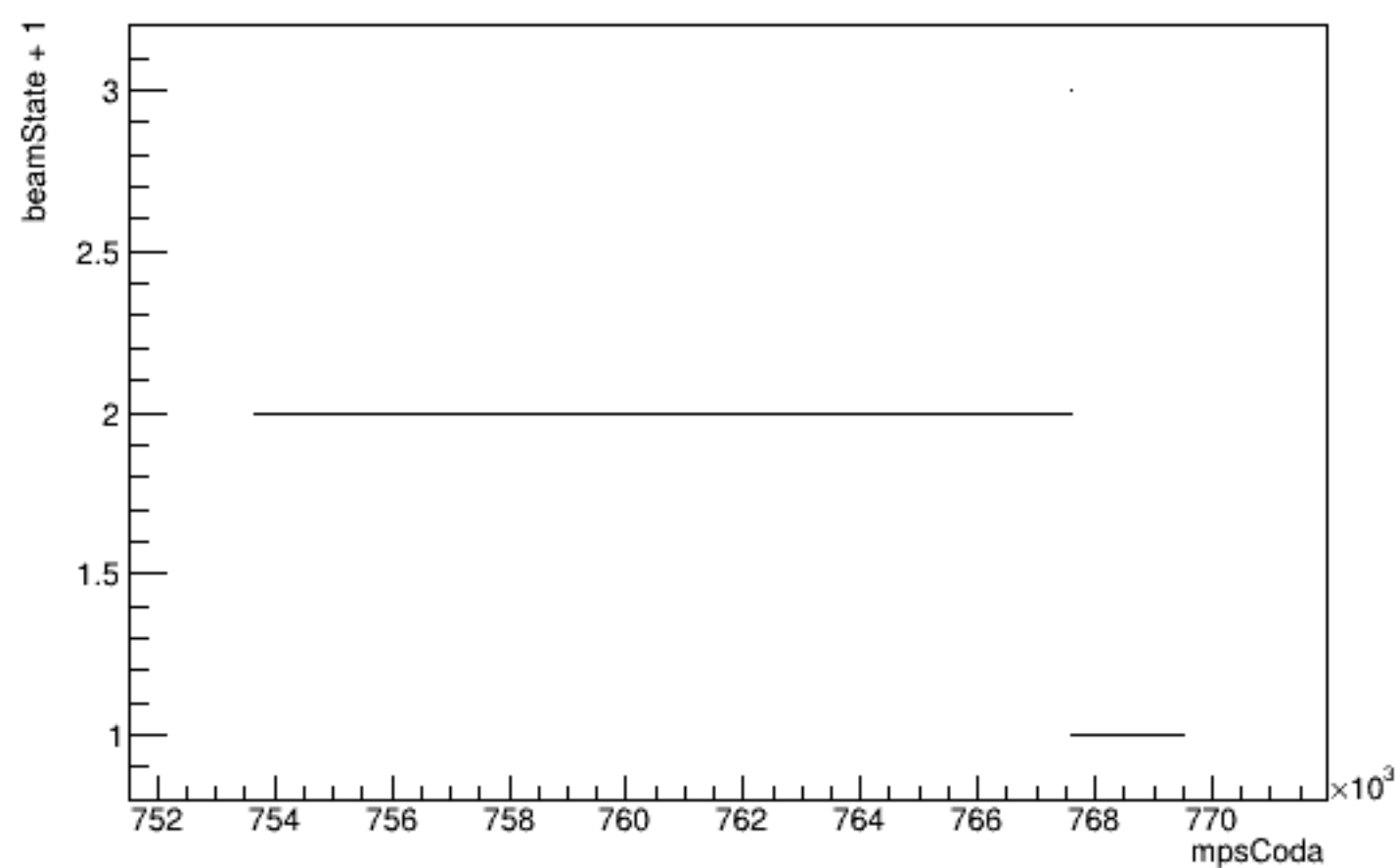
Acc0/NAcc0:mpsCoda (mpsCoda>=753660 && mpsCoda<=769527 && beamState==1)



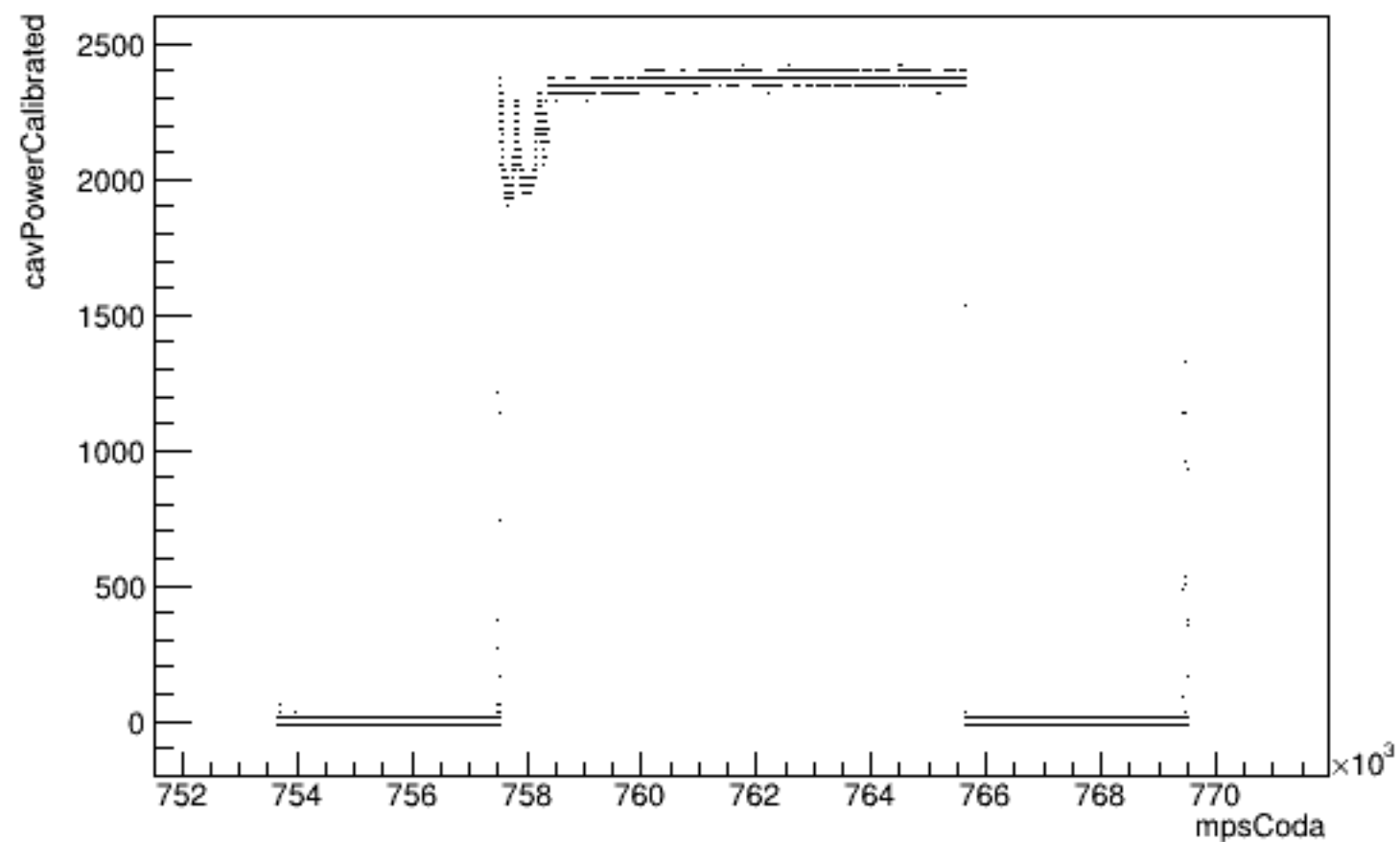
laserState:mpsCoda {mpsCoda&gt;=753660 &amp;&amp; mpsCoda&lt;=769527}



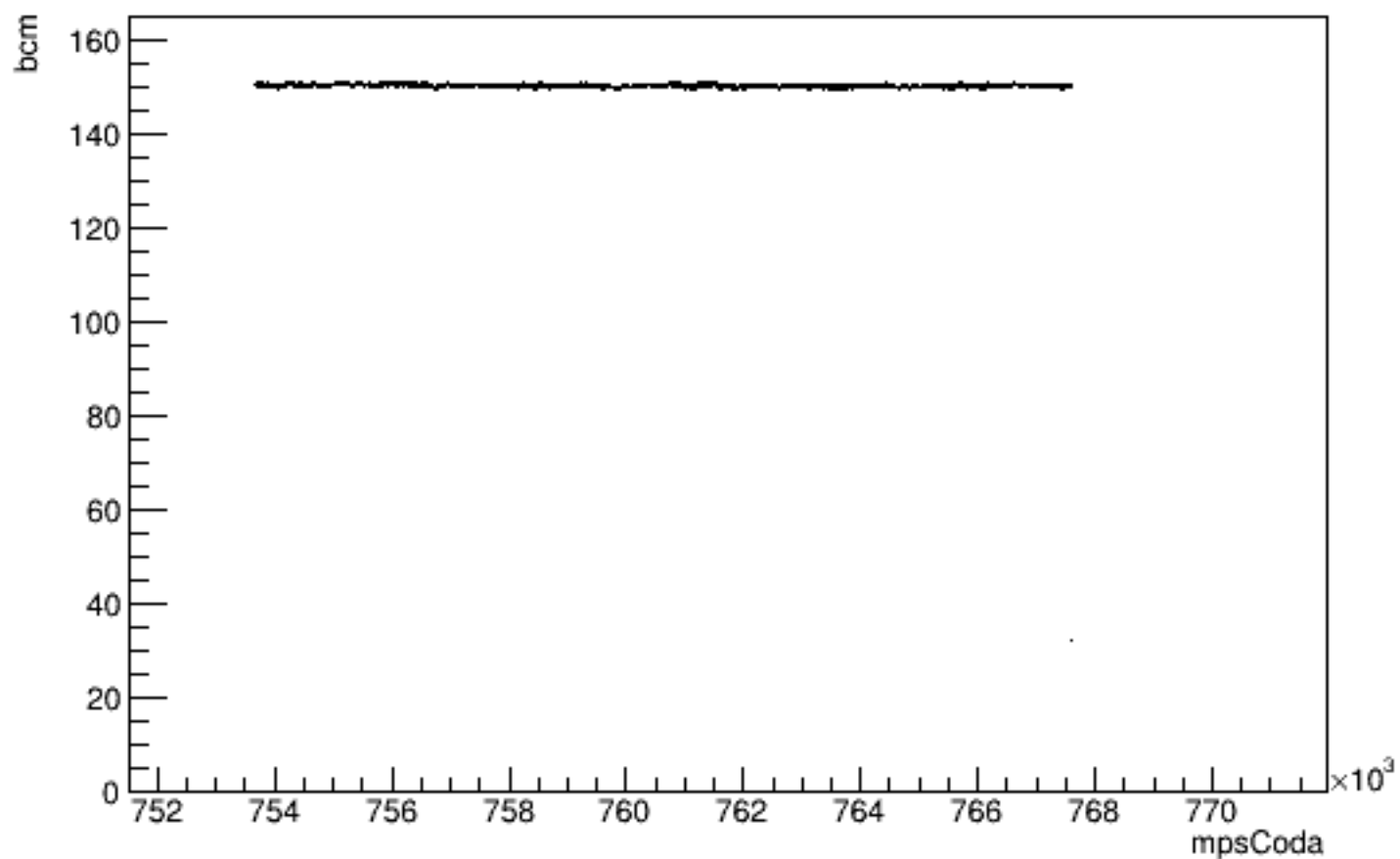
beamState + 1:mpsCoda {mpsCoda&gt;=753660 &amp;&amp; mpsCoda&lt;=769527}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=753660 &amp;&amp; mpsCoda&lt;=769527}



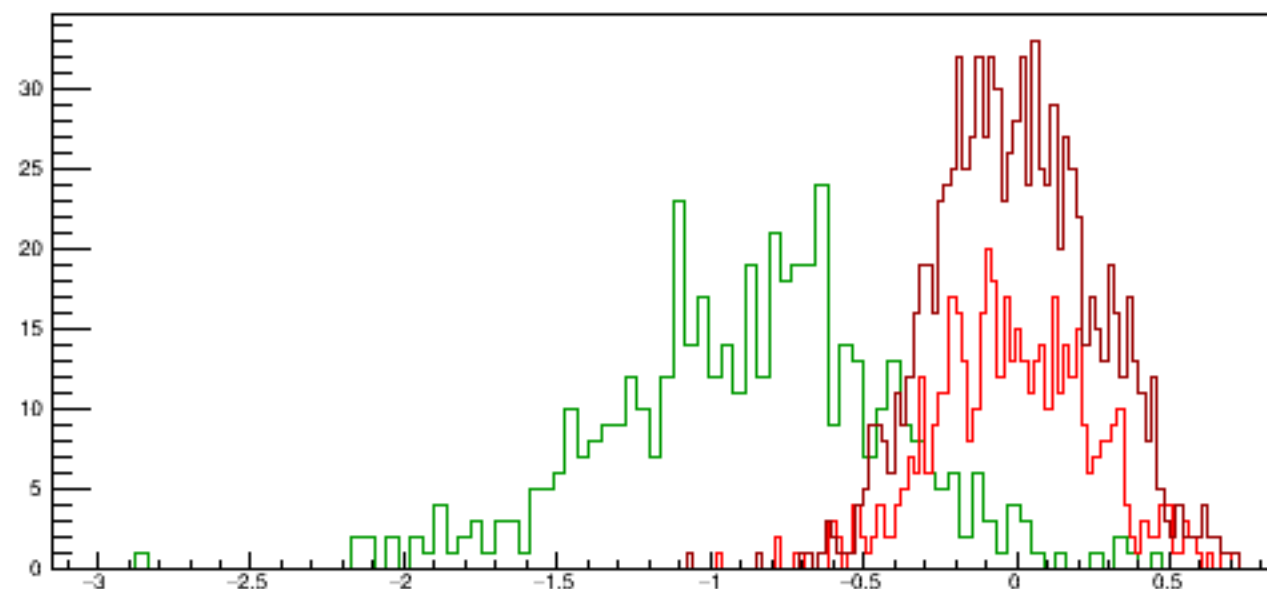
bcm:mpsCoda {mpsCoda&gt;=753660 &amp;&amp; mpsCoda&lt;=769527}



## Cycle 19, Diffs

| Entries: 494               | Entries: 477               | Entries: 969               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0124 +/- 0.0116   | Mean: -0.8784 +/- 0.0211   | Mean: -0.0024 +/- 0.0083   |
| Std Dev: 0.2571 +/- 0.0082 | Std Dev: 0.4605 +/- 0.0149 | Std Dev: 0.2595 +/- 0.0059 |

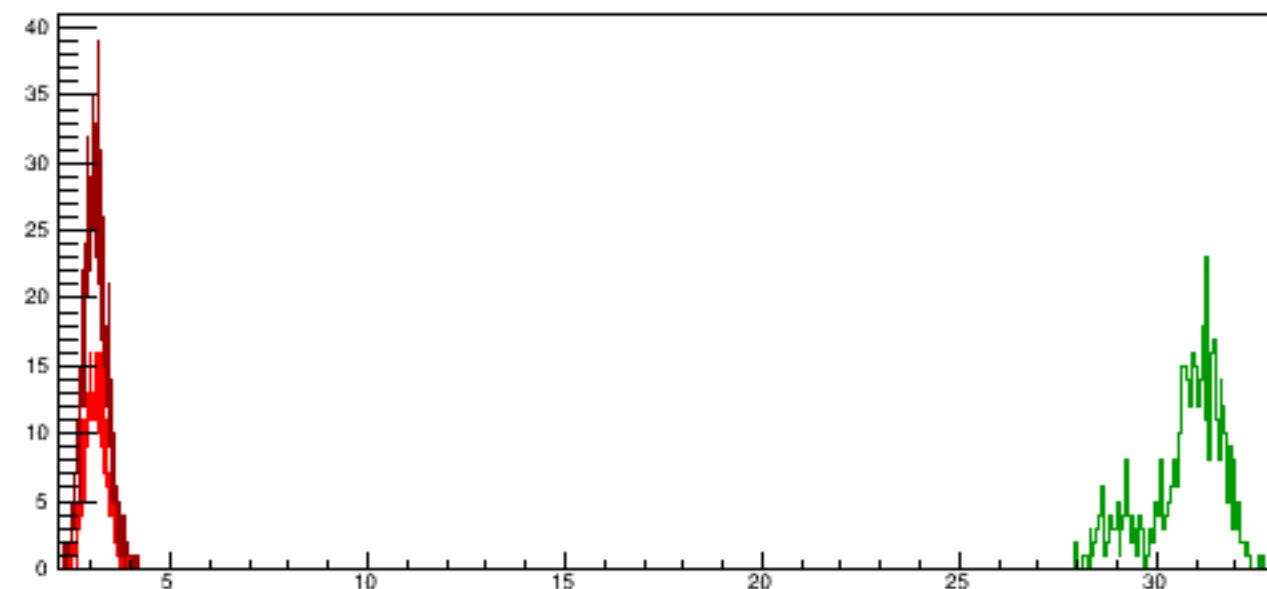
Run 5317 quartetwise, Diffs



## Cycle 19, Sums

| Entries: 494               | Entries: 477               | Entries: 969               |
|----------------------------|----------------------------|----------------------------|
| Mean: 3.1043 +/- 0.0122    | Mean: 30.7360 +/- 0.0444   | Mean: 3.1088 +/- 0.0095    |
| Std Dev: 0.2712 +/- 0.0086 | Std Dev: 0.9688 +/- 0.0314 | Std Dev: 0.2946 +/- 0.0067 |

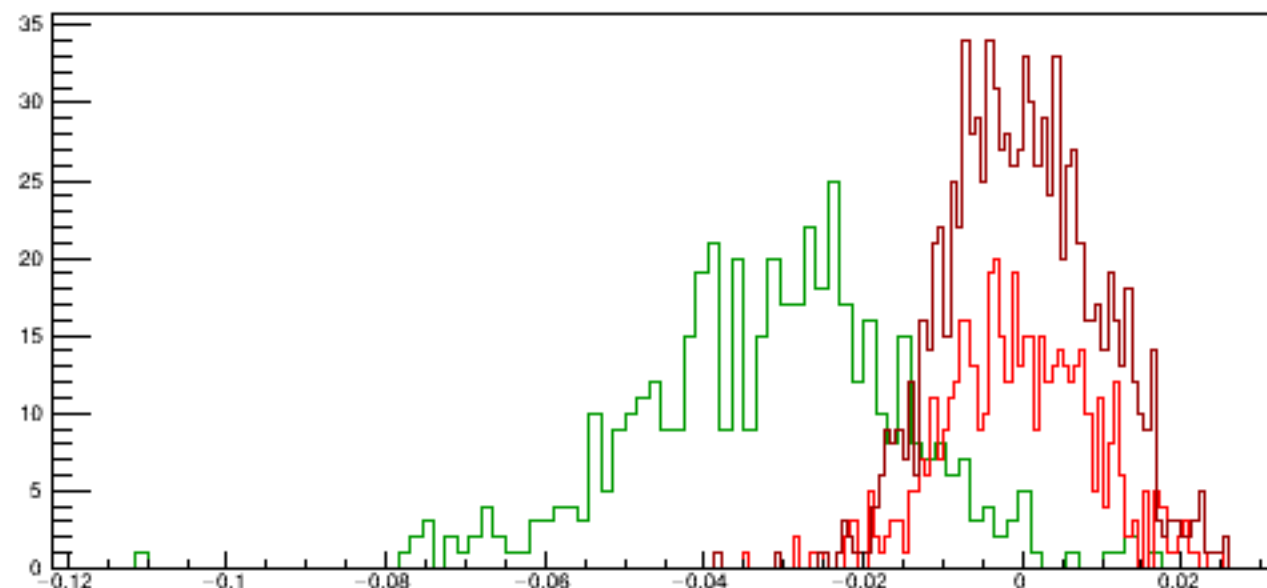
Run 5317 quartetwise, Sums



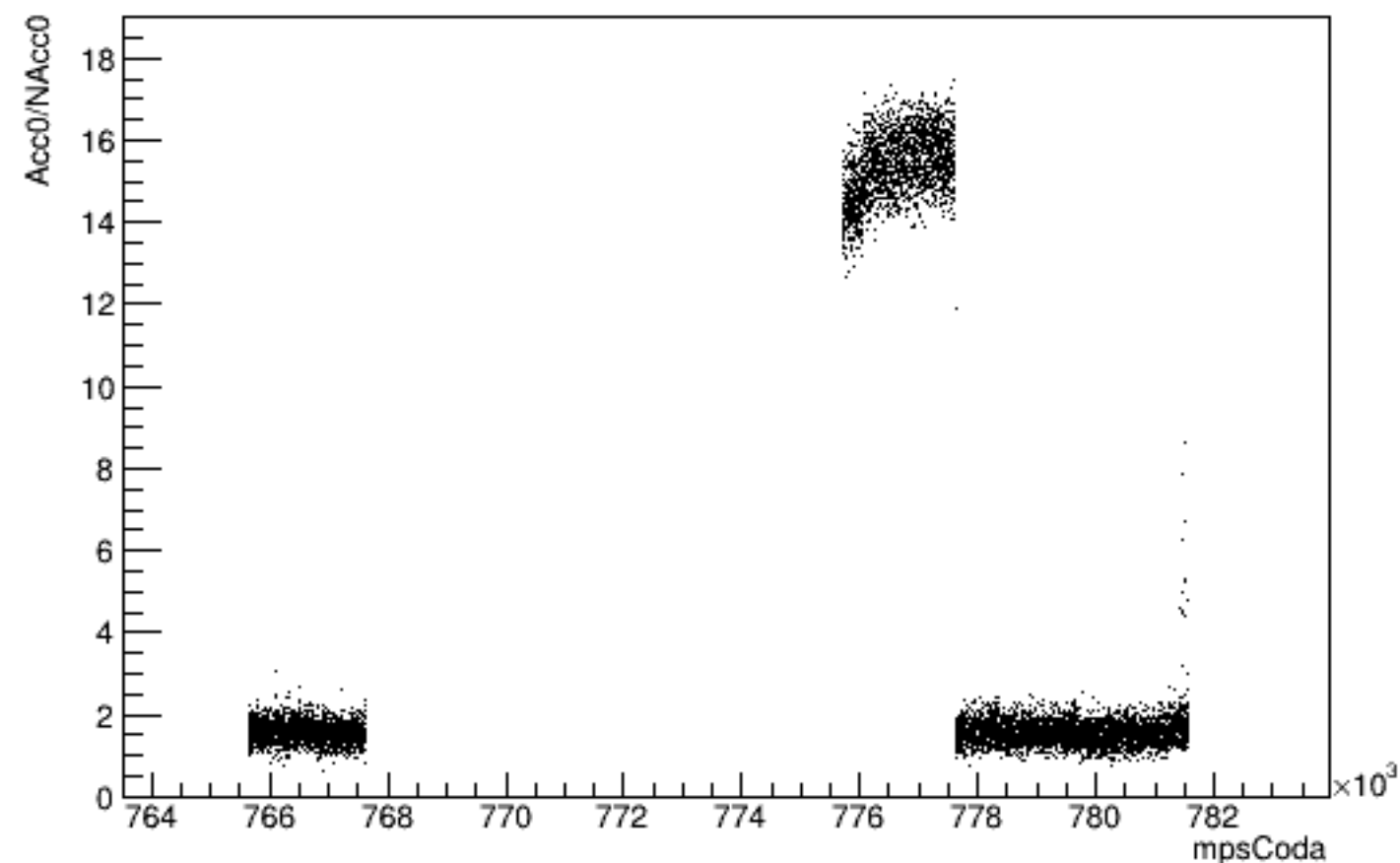
## Cycle 19, Asyms

| Entries: 494               | Entries: 477               | Entries: 969               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0005 +/- 0.0004   | Mean: -0.0318 +/- 0.0008   | Mean: -0.0001 +/- 0.0003   |
| Std Dev: 0.0093 +/- 0.0003 | Std Dev: 0.0167 +/- 0.0005 | Std Dev: 0.0094 +/- 0.0002 |

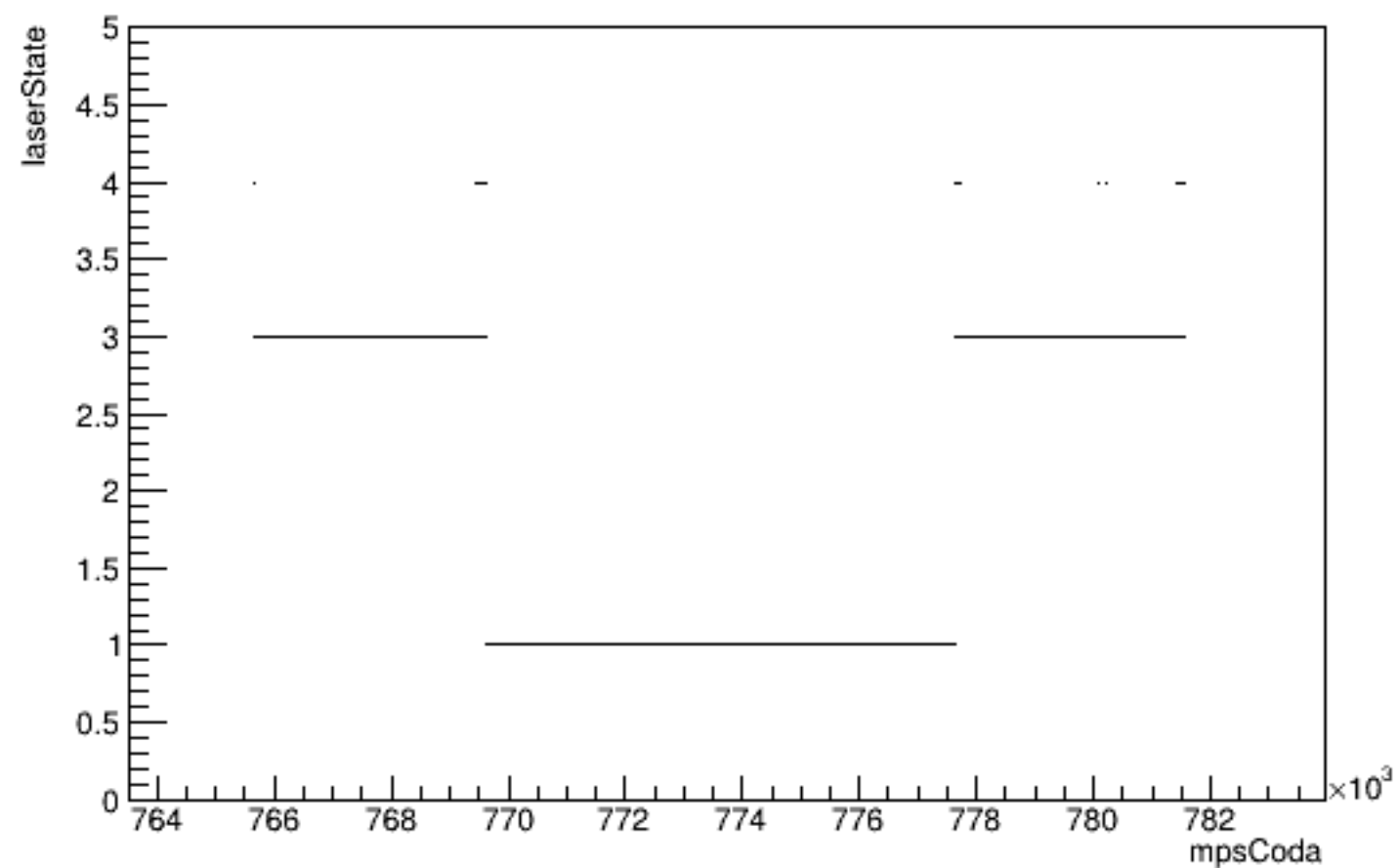
Run 5317 quartetwise, Asyms



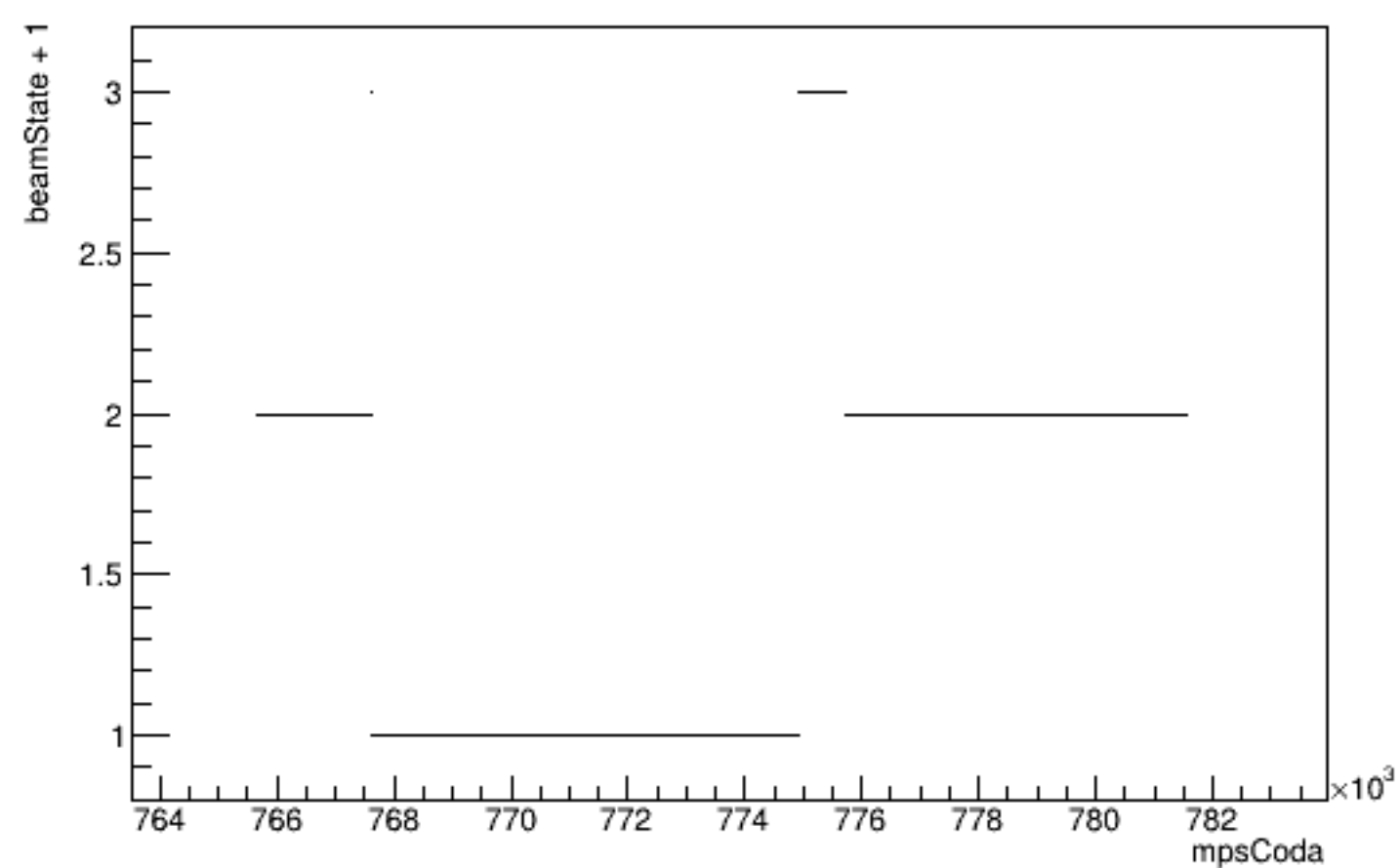
Acc0/NAcc0:mpsCoda (mpsCoda>=765636 && mpsCoda<=781571 && beamState==1)



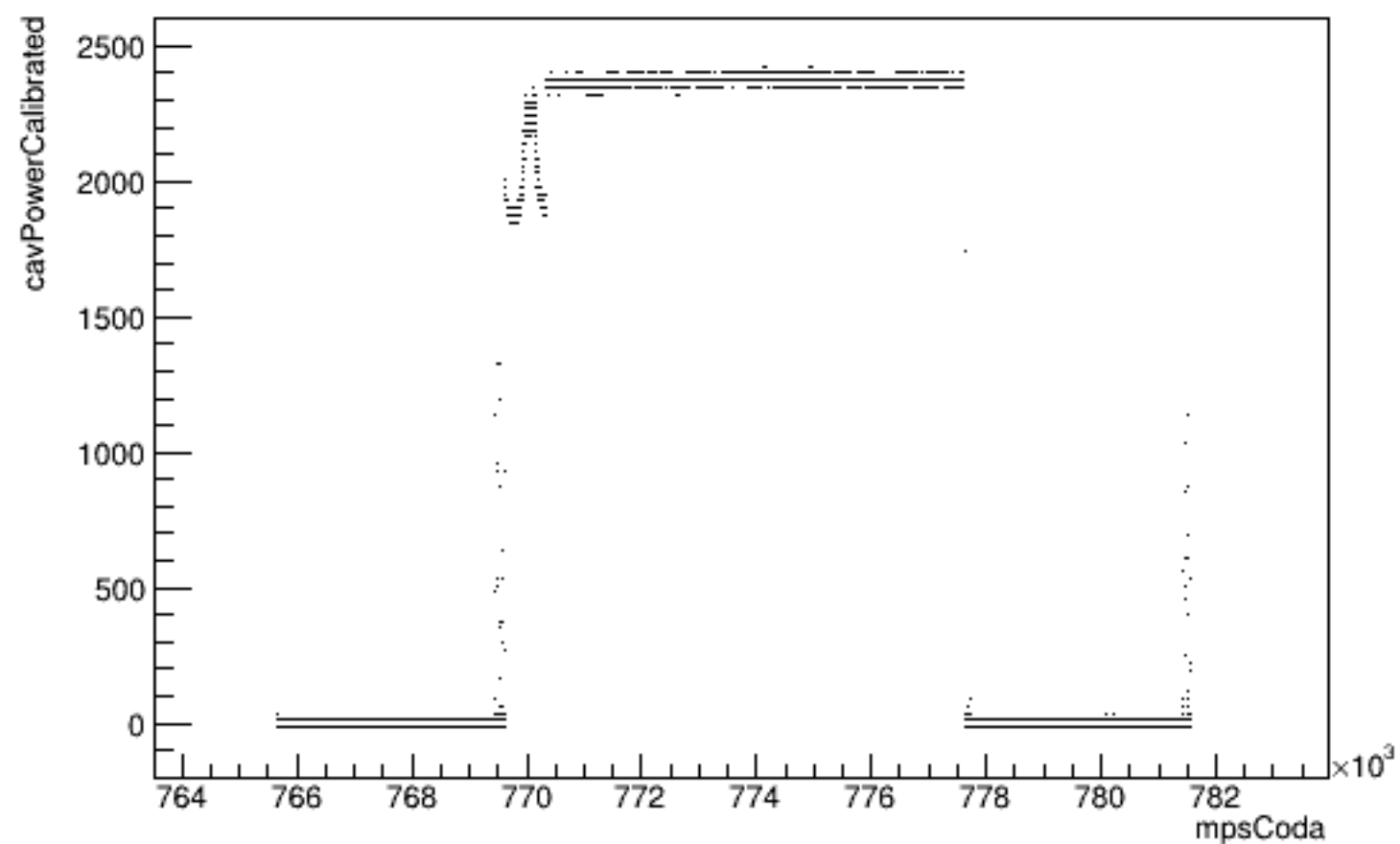
laserState:mpsCoda {mpsCoda&gt;=765636 &amp;&amp; mpsCoda&lt;=781571}



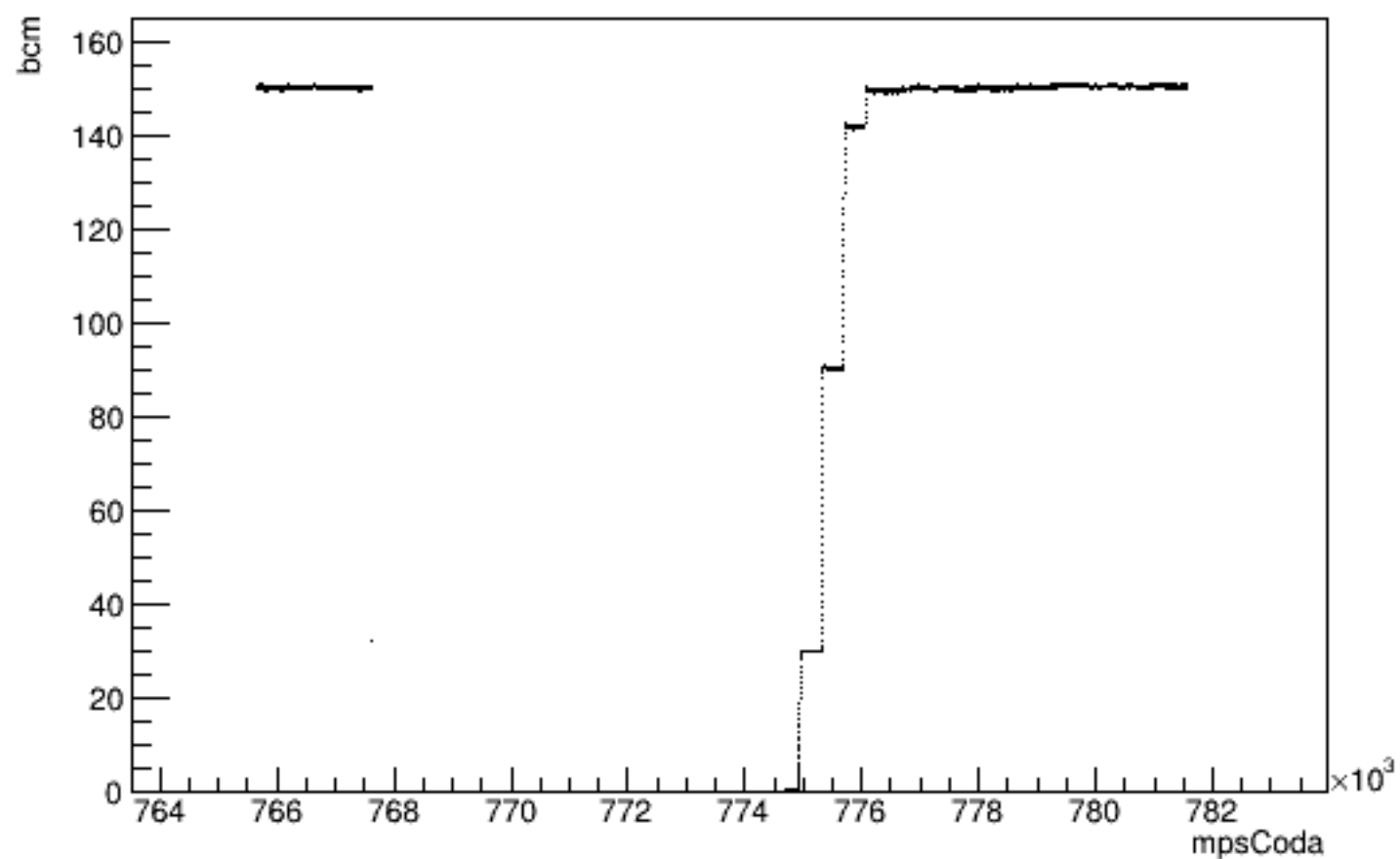
beamState + 1:mpsCoda {mpsCoda&gt;=765636 &amp;&amp; mpsCoda&lt;=781571}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=765636 &amp;&amp; mpsCoda&lt;=781571}



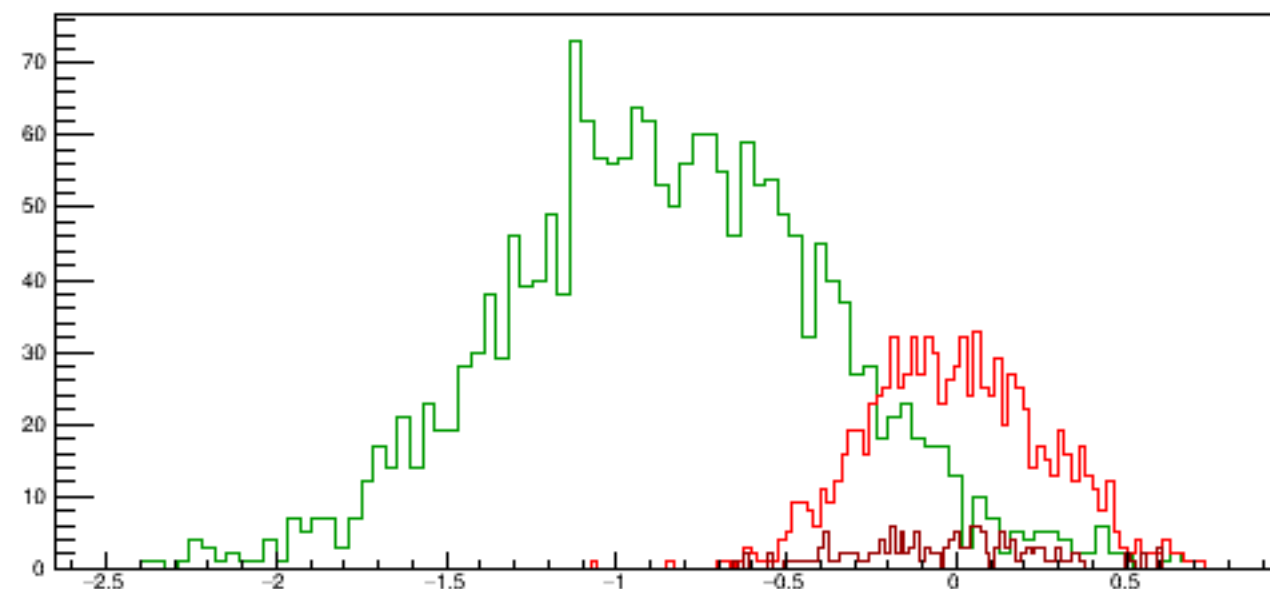
bcm:mpsCoda {mpsCoda&gt;=765636 &amp;&amp; mpsCoda&lt;=781571}



## Cycle 20, Diffs

| Entries: 969               | Entries: 2005              | Entries: 159               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0024 +/- 0.0083   | Mean: -0.8513 +/- 0.0107   | Mean: -0.0296 +/- 0.0213   |
| Std Dev: 0.2595 +/- 0.0059 | Std Dev: 0.4810 +/- 0.0076 | Std Dev: 0.2680 +/- 0.0150 |

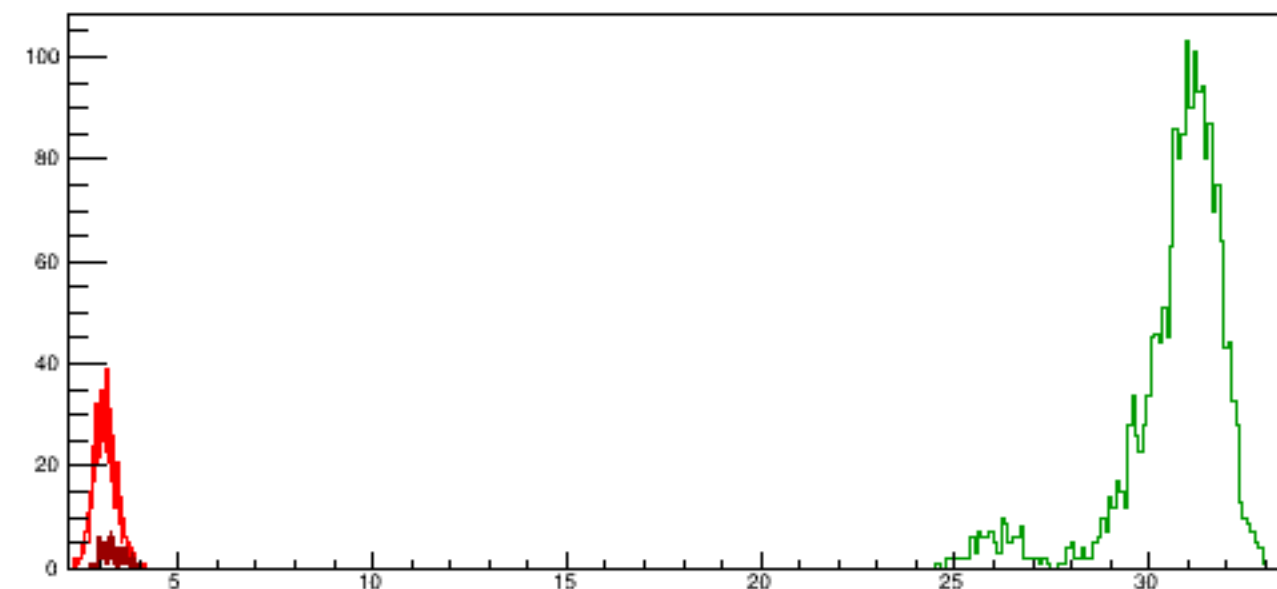
Run 5317 quartetwise, Diffs



## Cycle 20, Sums

| Entries: 969               | Entries: 2005              | Entries: 159               |
|----------------------------|----------------------------|----------------------------|
| Mean: 3.1088 +/- 0.0095    | Mean: 30.6505 +/- 0.0315   | Mean: 3.3055 +/- 0.0215    |
| Std Dev: 0.2946 +/- 0.0067 | Std Dev: 1.4083 +/- 0.0222 | Std Dev: 0.2714 +/- 0.0152 |

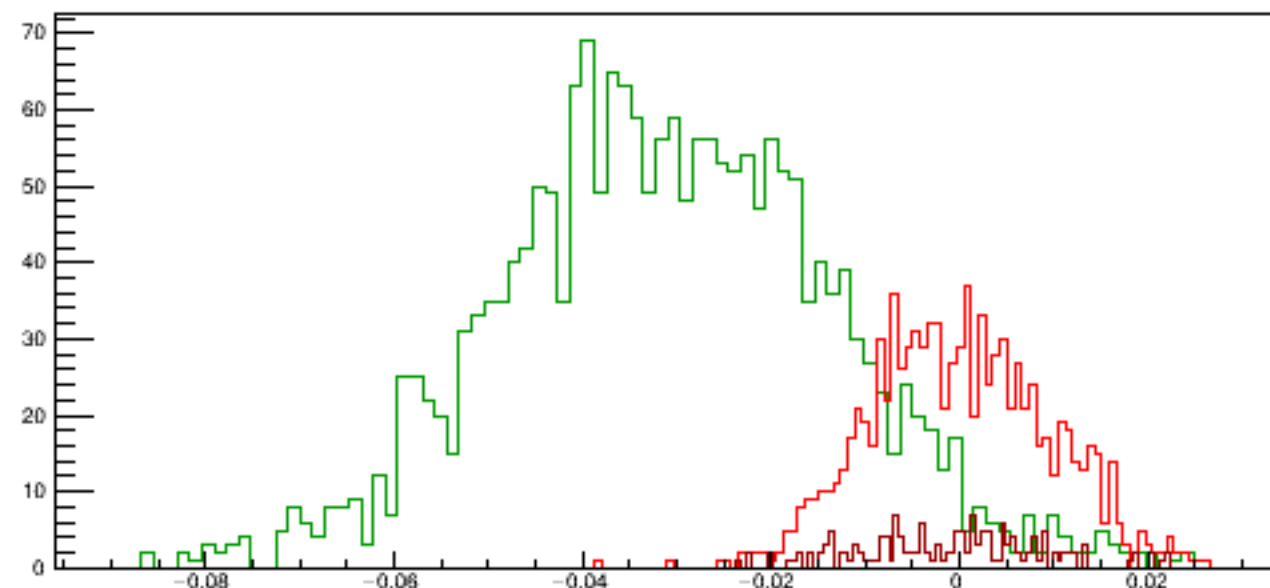
Run 5317 quartetwise, Sums



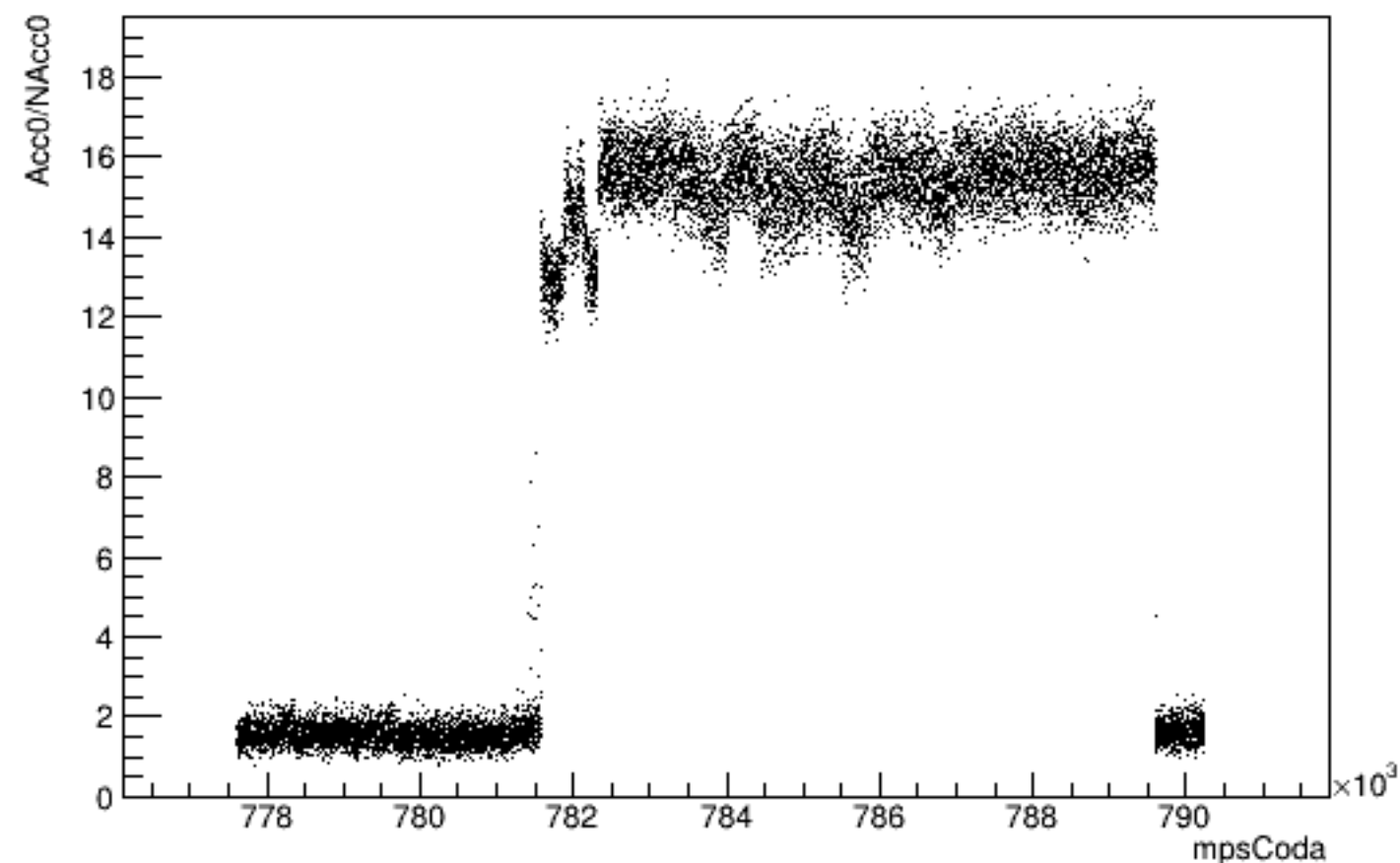
## Cycle 20, Asyms

| Entries: 969               | Entries: 2005              | Entries: 159               |
|----------------------------|----------------------------|----------------------------|
| Mean: -0.0001 +/- 0.0003   | Mean: -0.0310 +/- 0.0004   | Mean: -0.0011 +/- 0.0008   |
| Std Dev: 0.0095 +/- 0.0002 | Std Dev: 0.0175 +/- 0.0003 | Std Dev: 0.0098 +/- 0.0005 |

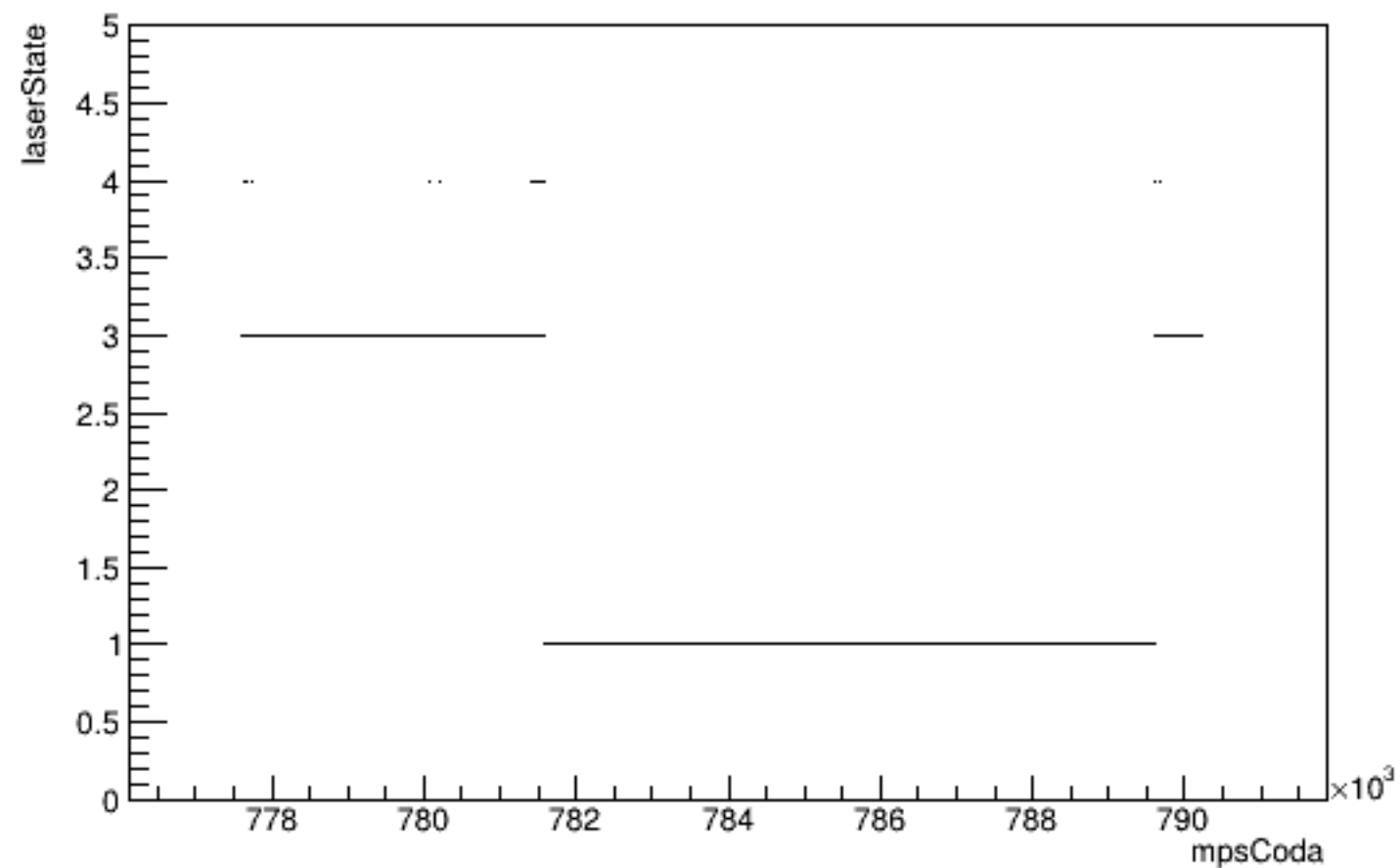
Run 5317 quartetwise, Asyms



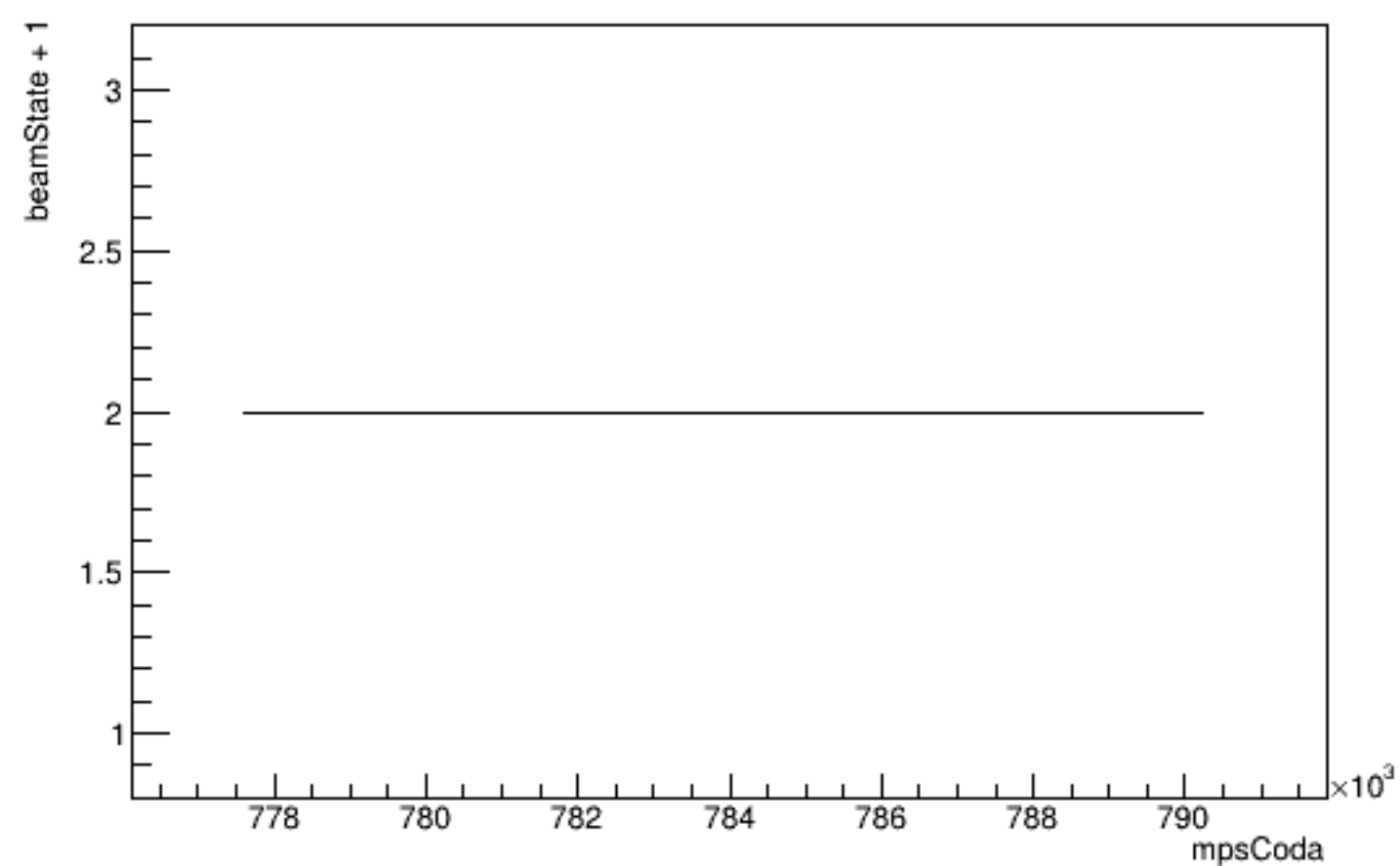
Acc0/NAcc0:mpsCoda (mpsCoda>=777616 && mpsCoda<=790243 && beamState==1)



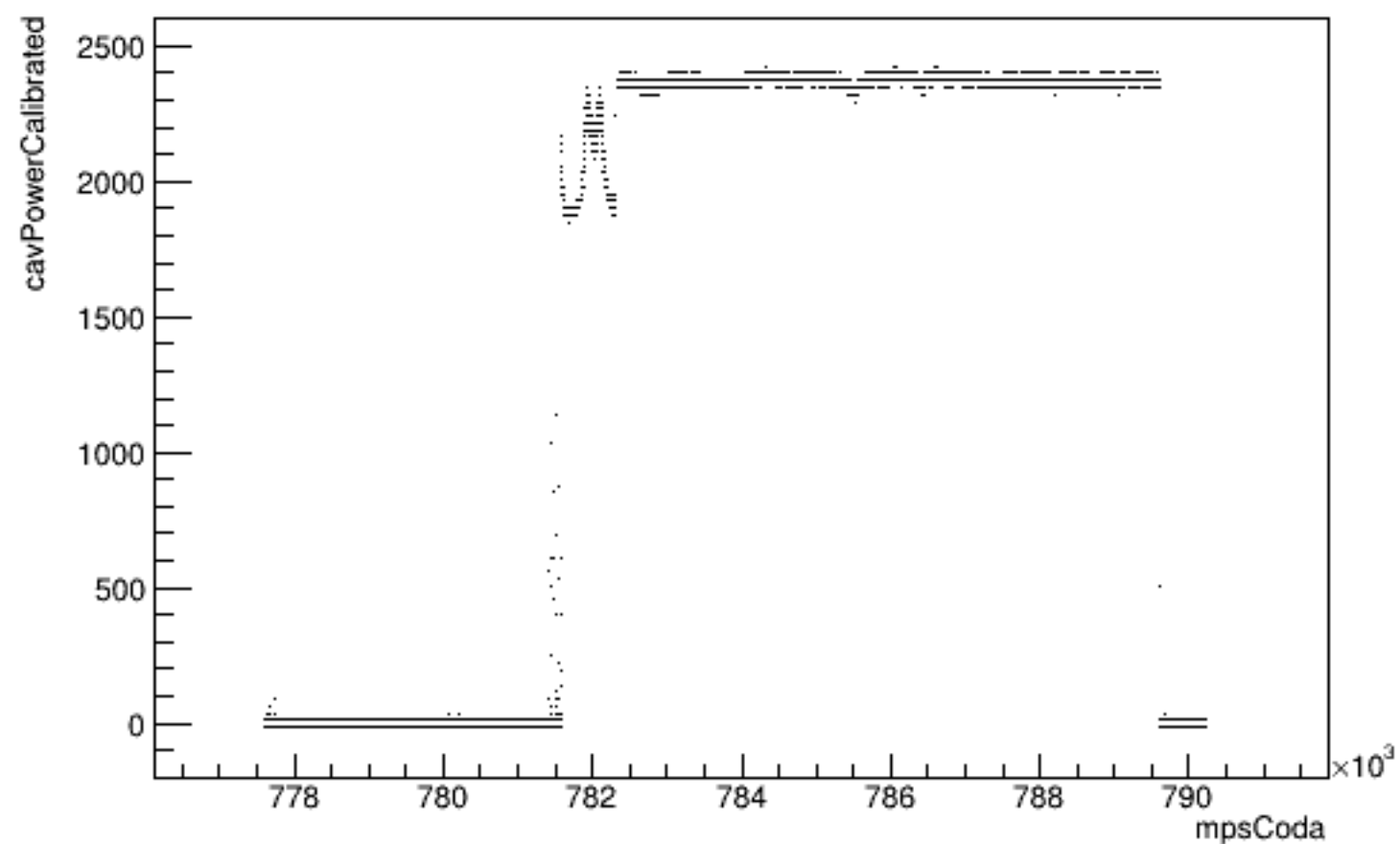
laserState:mpsCoda {mpsCoda&gt;=777616 &amp;&amp; mpsCoda&lt;=790243}



beamState + 1:mpsCoda {mpsCoda&gt;=777616 &amp;&amp; mpsCoda&lt;=790243}



cavPowerCalibrated:mpsCoda {mpsCoda&gt;=777616 &amp;&amp; mpsCoda&lt;=790243}



bcm:mpsCoda {mpsCoda&gt;=777616 &amp;&amp; mpsCoda&lt;=790243}

