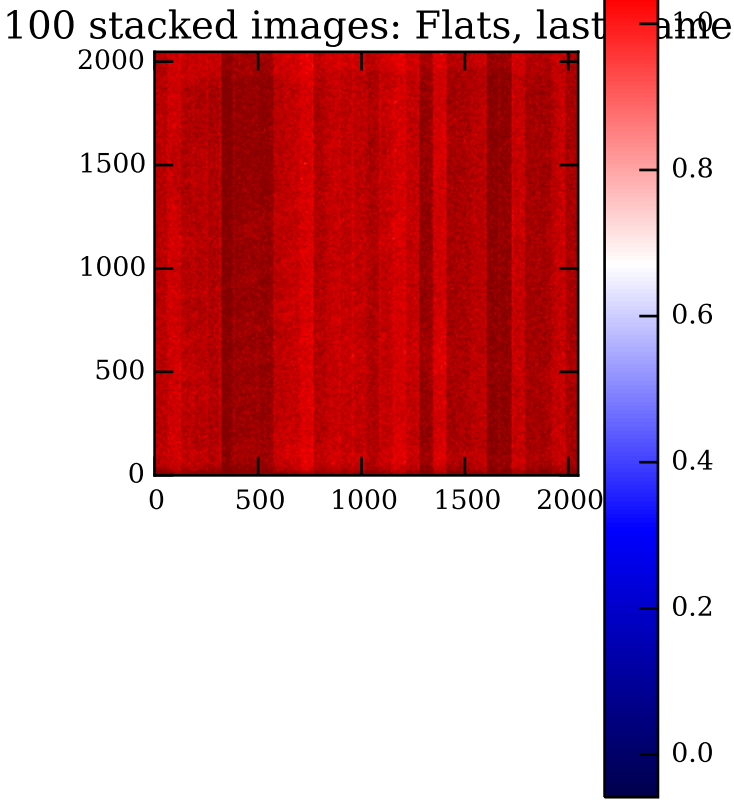
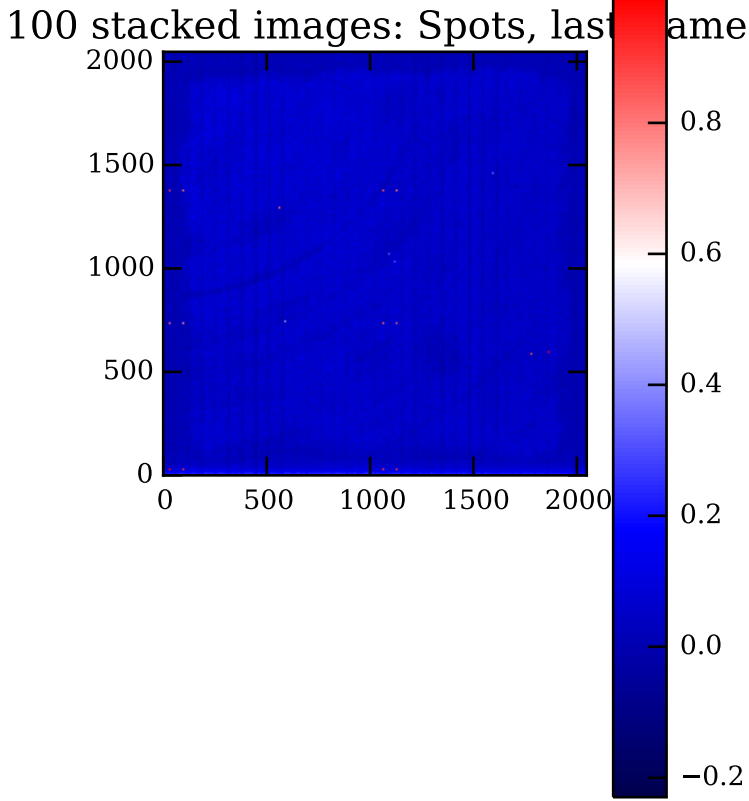
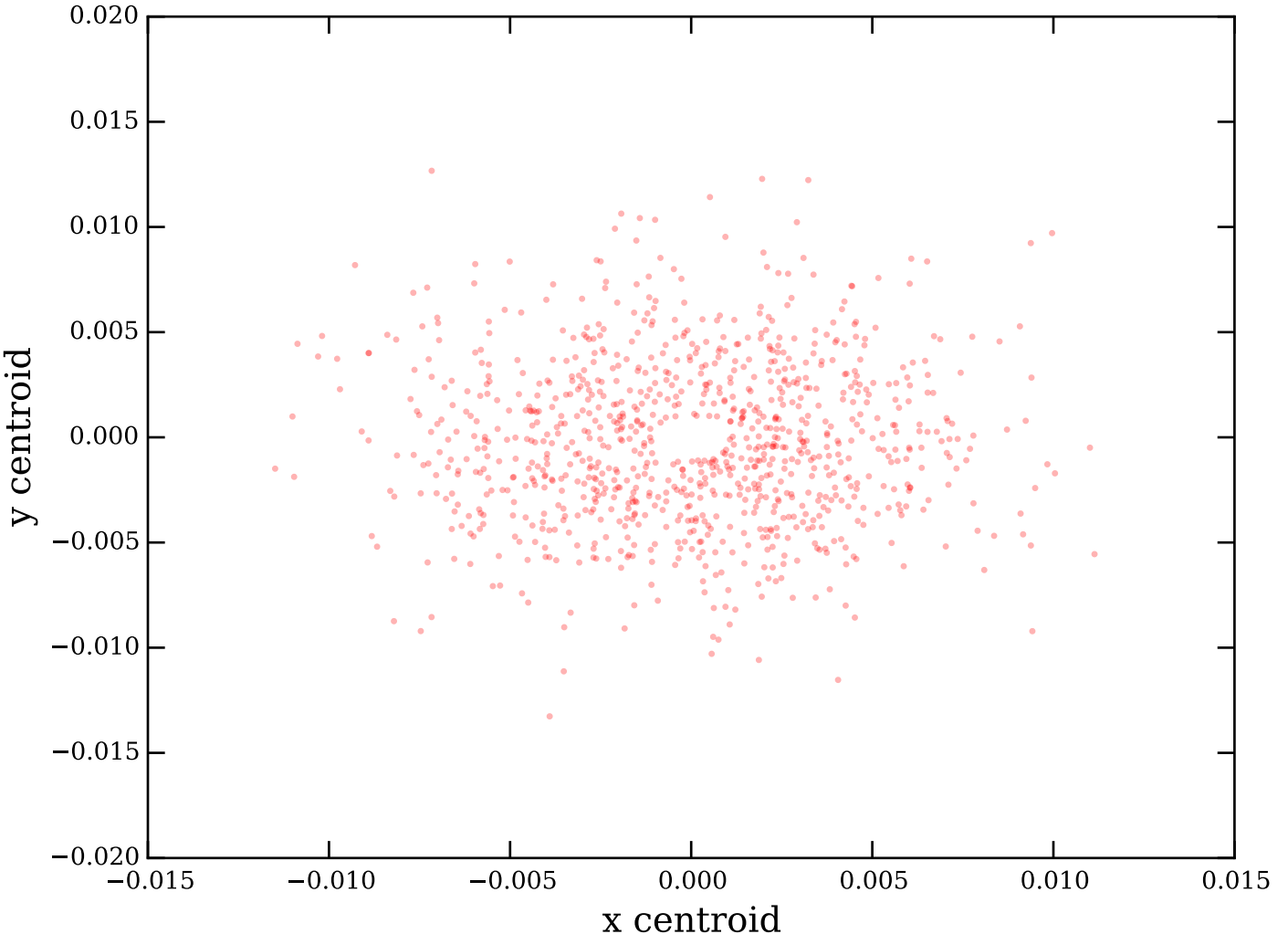
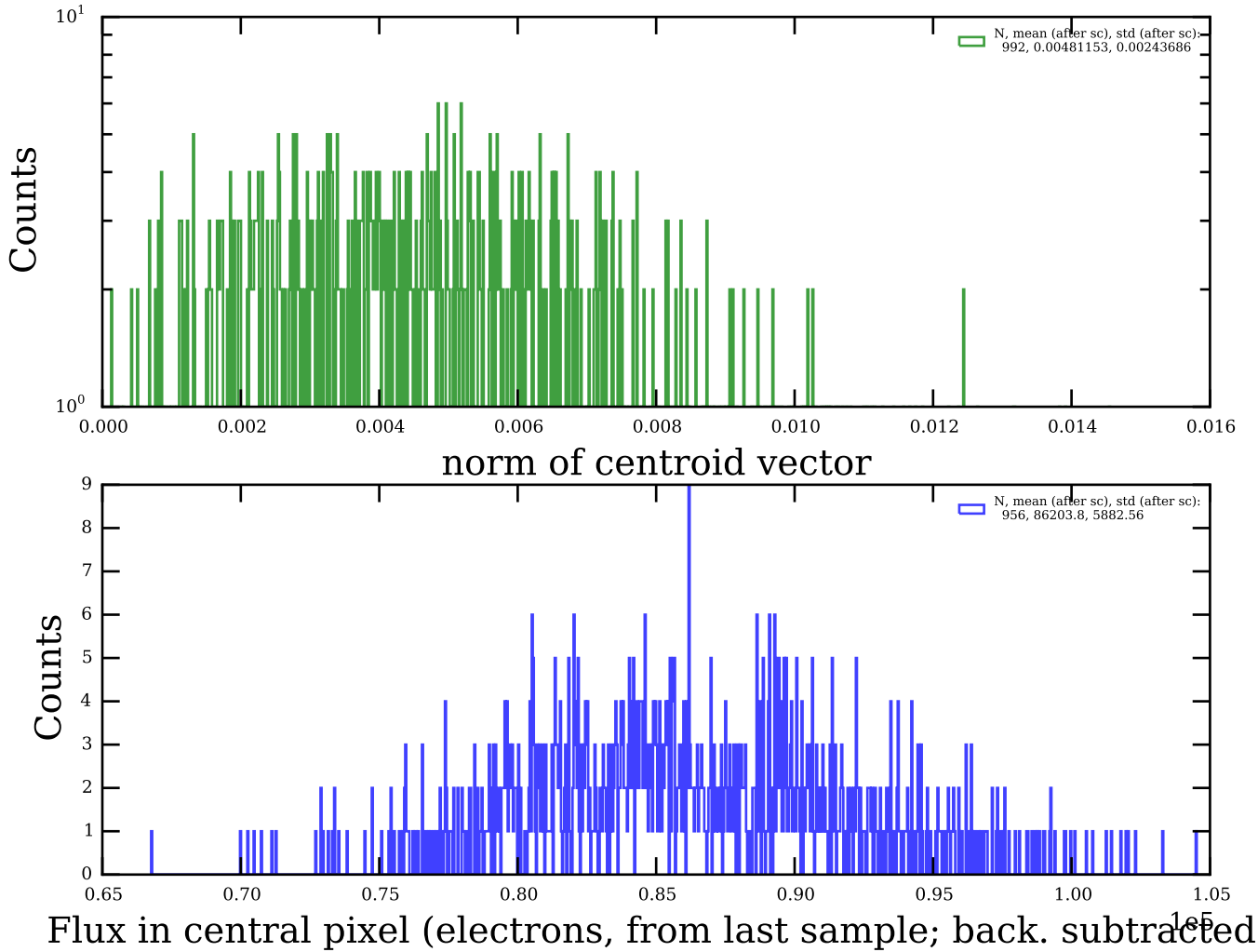
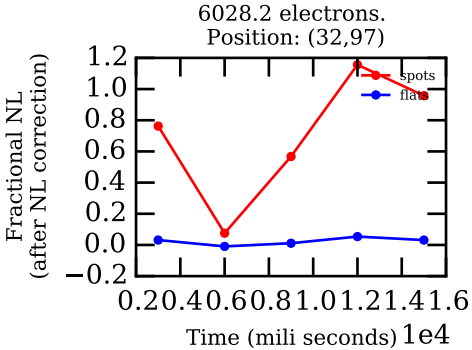
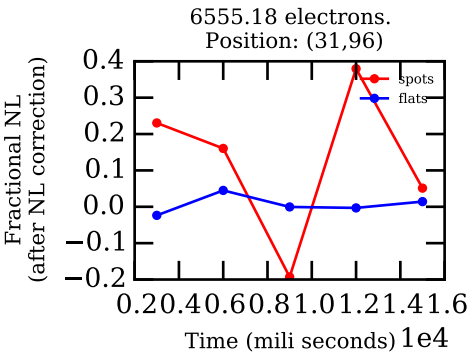

100 stacked images: Flats, last frame
1e5
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2000
1500
1000
500
0
0
500
1000
1500
2000

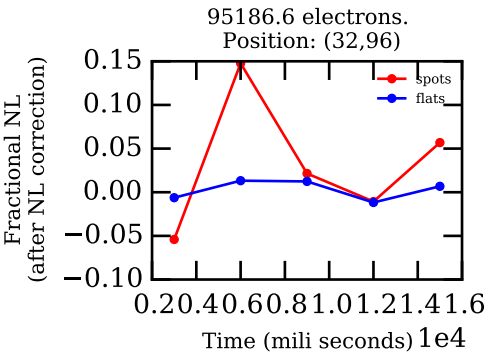

100 stacked images: Spots, last frame
1e5
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
2000
1500
1000
500
0
0
500
1000
1500
2000

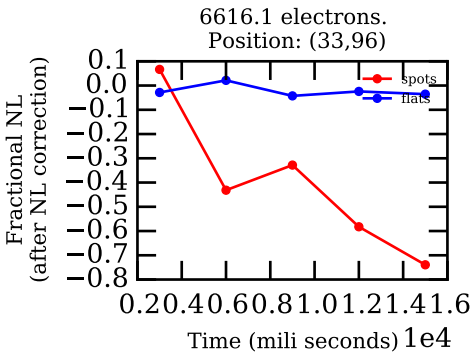

0.020
0.015
0.010
0.005
0.000
−0.005
−0.010
−0.015
−0.020
y centroid
−0.015
−0.010
−0.005
0.000
0.005
0.010
0.015
x centroid

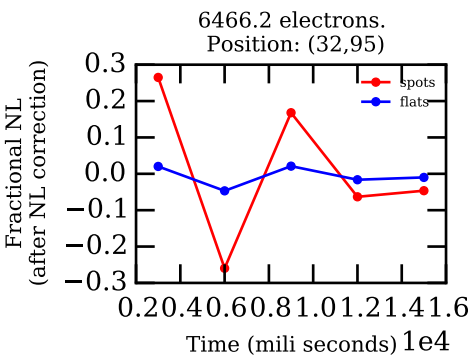

N, mean (after sc), std (after sc):
992, 0.00481153, 0.00243686
Counts
norm of centroid vector
N, mean (after sc), std (after sc):
956, 86203.8, 5882.56
Counts
Flux in central pixel (electrons, from last sample; back. subtracted)
1e5

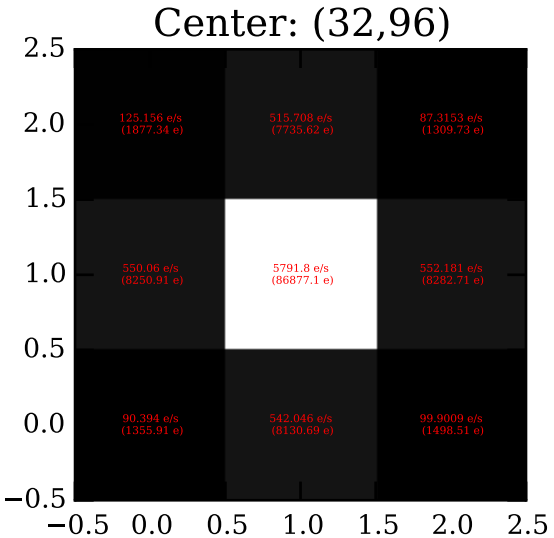

6028.2 electrons.
Position: (32,97)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

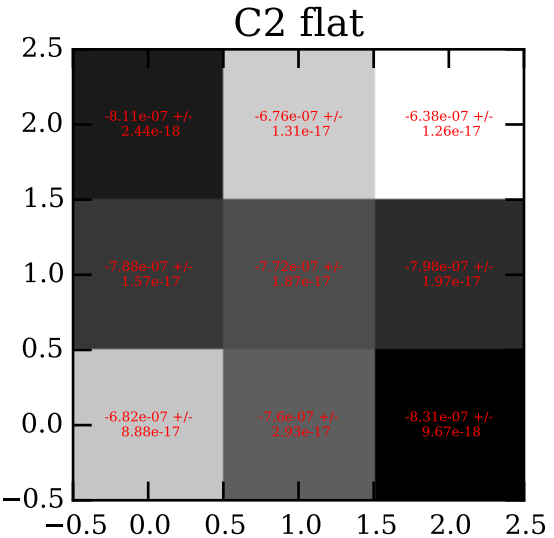

6555.18 electrons.
Position: (31,96)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

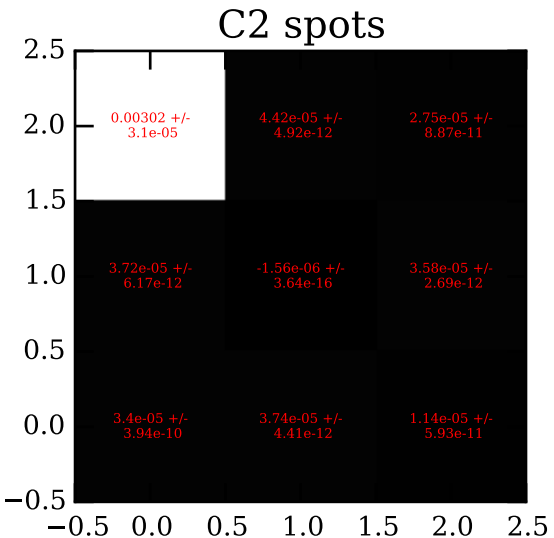

95186.6 electrons.
Position: (32,96)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

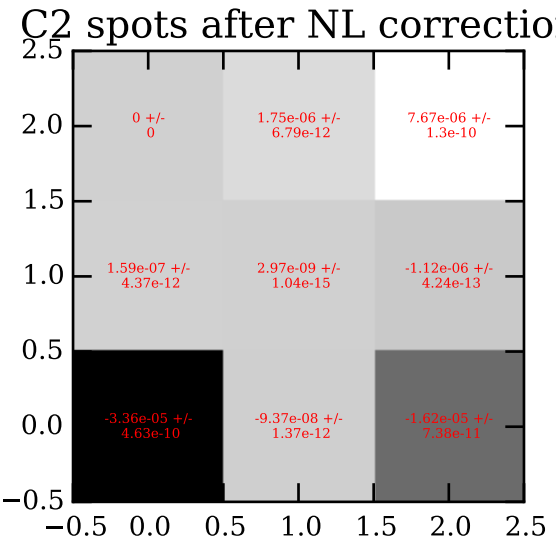

6616.1 electrons.
Position: (33,96)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

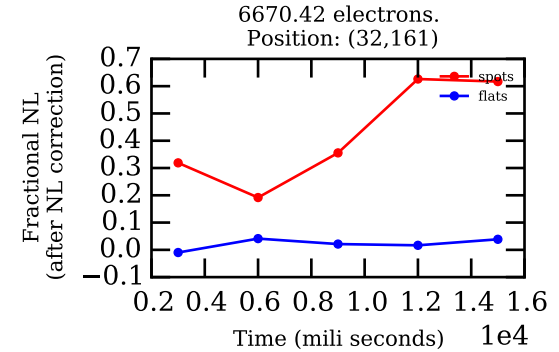

6466.2 electrons.
Position: (32,95)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

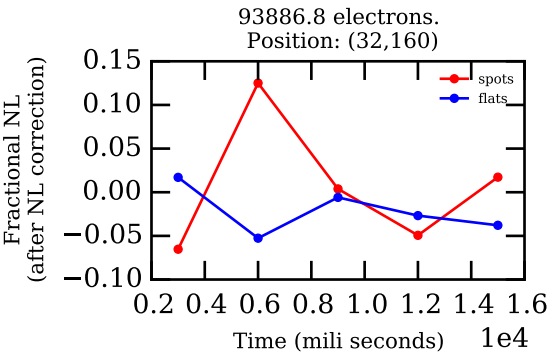

Center: (32,96)
125.156 e/s
(1877.34 e)
515.708 e/s
(7735.62 e)
87.3153 e/s
(1309.73 e)
550.06 e/s
(8250.91 e)
5791.8 e/s
(86877.1 e)
552.181 e/s
(8282.71 e)
90.394 e/s
(1355.91 e)
542.046 e/s
(8130.69 e)
99.9009 e/s
(1498.51 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

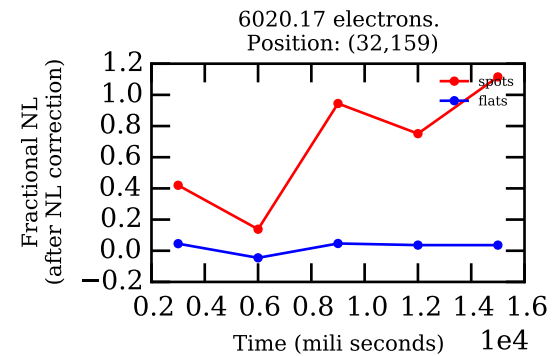

C2 flat
-8.11e-07 +/-
2.44e-18
-6.76e-07 +/-
1.31e-17
-6.38e-07 +/-
1.26e-17
-7.88e-07 +/-
1.57e-17
-7.72e-07 +/-
1.87e-17
-7.98e-07 +/-
1.97e-17
-6.82e-07 +/-
8.88e-17
-7.6e-07 +/-
2.79e-17
-8.31e-07 +/-
9.67e-18
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

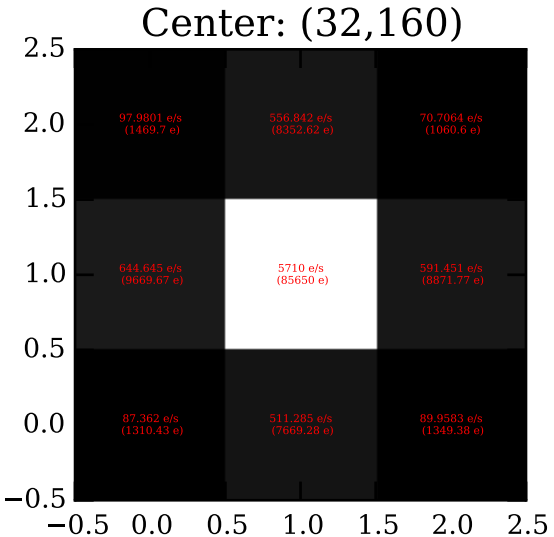

C2 spots
0.00302 +/-
3.1e-05
4.42e-05 +/-
4.92e-12
2.75e-05 +/-
8.87e-11
3.72e-05 +/-
6.17e-12
-1.56e-06 +/-
3.64e-16
3.58e-05 +/-
2.69e-12
3.4e-05 +/-
3.94e-10
3.74e-05 +/-
4.41e-12
1.14e-05 +/-
5.93e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

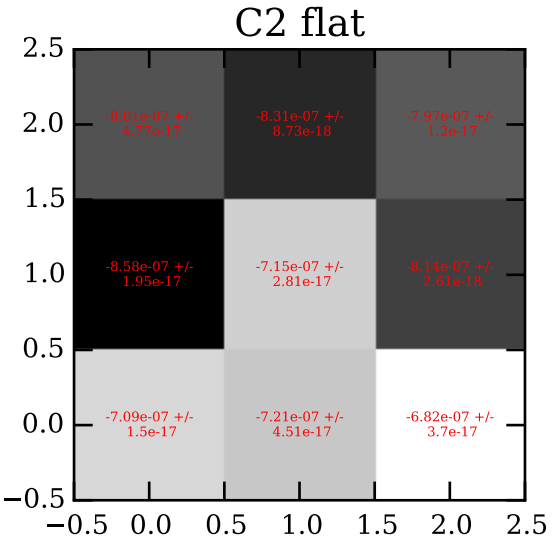

C2 spots after NL correction
0 +/-
0
1.75e-06 +/-
6.79e-12
7.67e-06 +/-
1.3e-10
1.59e-07 +/-
4.37e-12
2.97e-09 +/-
1.04e-15
-1.12e-06 +/-
4.24e-13
-3.36e-05 +/-
4.63e-10
-9.37e-08 +/-
1.37e-12
-1.62e-05 +/-
7.38e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

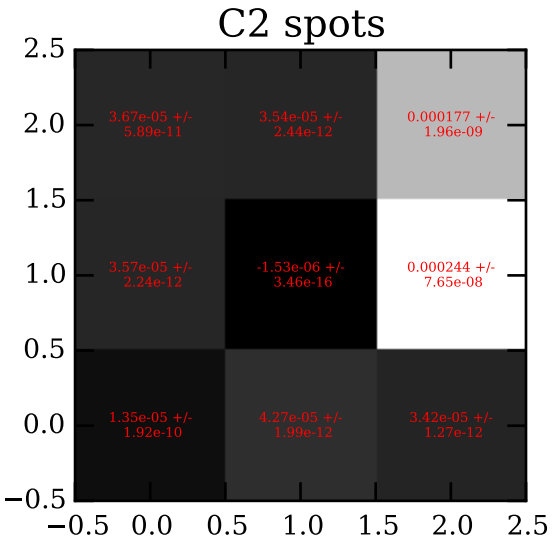

6670.42 electrons.
Position: (32,161)
Fractional NL
(after NL correction)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

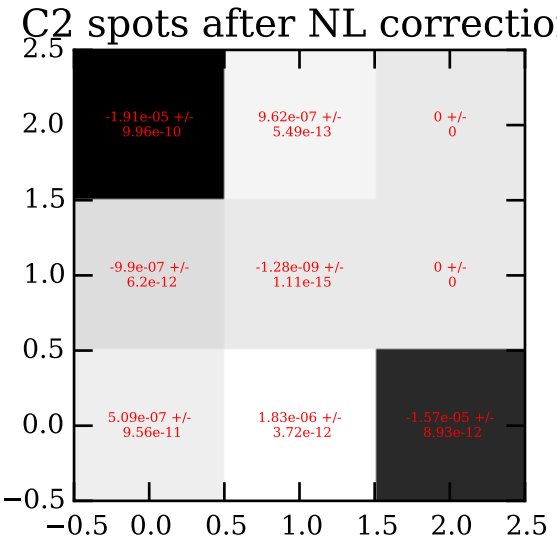

93886.8 electrons.
Position: (32,160)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
−0.10
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

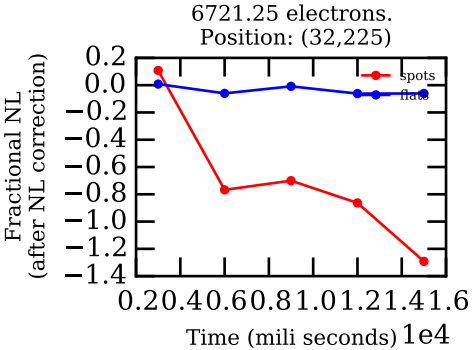

6020.17 electrons.
Position: (32,159)
Fractional NL
(after NL correction)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

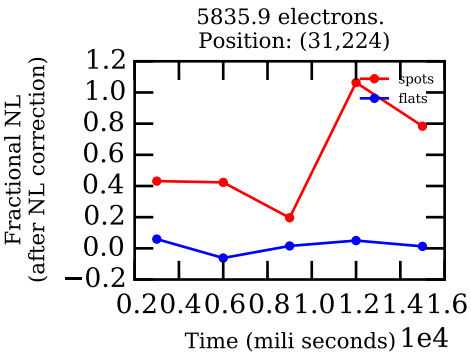

Center: (32,160)
97.9801 e/s
(1469.7 e)
556.842 e/s
(8352.62 e)
70.7064 e/s
(1060.6 e)
644.645 e/s
(9669.67 e)
5710 e/s
(85650 e)
591.451 e/s
(8871.77 e)
87.362 e/s
(1310.43 e)
511.285 e/s
(7669.28 e)
89.9583 e/s
(1349.38 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

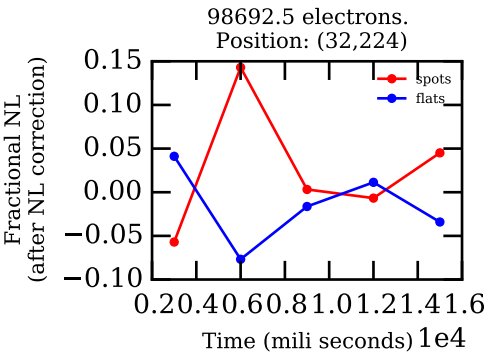

C2 flat
-8.01e-07 +/-
4.77e-17
-8.31e-07 +/-
8.73e-18
-7.97e-07 +/-
1.2e-17
-8.58e-07 +/-
1.95e-17
-7.15e-07 +/-
2.81e-17
-8.14e-07 +/-
2.61e-18
-7.09e-07 +/-
1.5e-17
-7.21e-07 +/-
4.51e-17
-6.82e-07 +/-
3.7e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

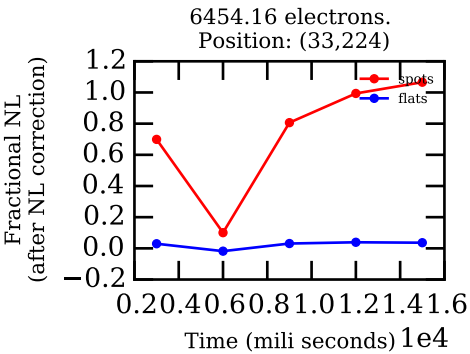

C2 spots
3.67e-05 +/-
5.89e-11
3.54e-05 +/-
2.44e-12
0.000177 +/-
1.96e-09
3.57e-05 +/-
2.24e-12
-1.53e-06 +/-
3.46e-16
0.000244 +/-
7.65e-08
1.35e-05 +/-
1.92e-10
4.27e-05 +/-
1.99e-12
3.42e-05 +/-
1.27e-12
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

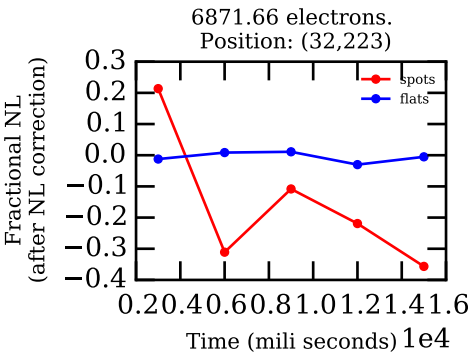

C2 spots after NL correction
-1.91e-05 +/-
9.96e-10
9.62e-07 +/-
5.49e-13
0 +/-
0
-9.9e-07 +/-
6.2e-12
-1.28e-09 +/-
1.11e-15
0 +/-
0
5.09e-07 +/-
9.56e-11
1.83e-06 +/-
3.72e-12
-1.57e-05 +/-
8.93e-12
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

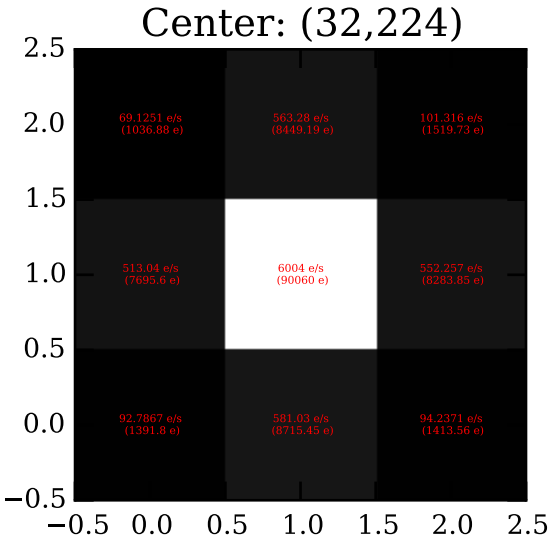

6721.25 electrons.
Position: (32,225)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

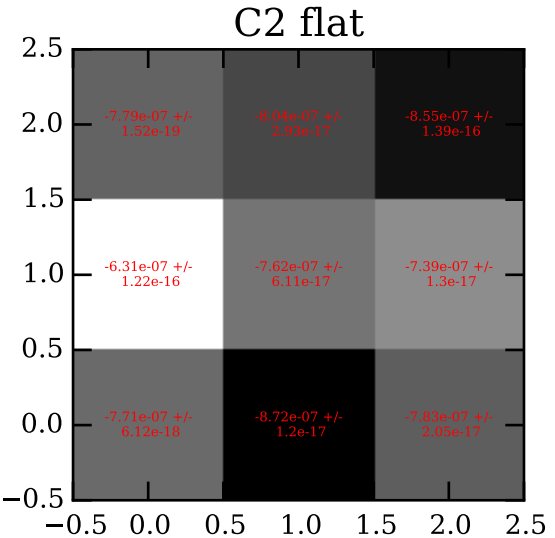

5835.9 electrons.
Position: (31,224)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

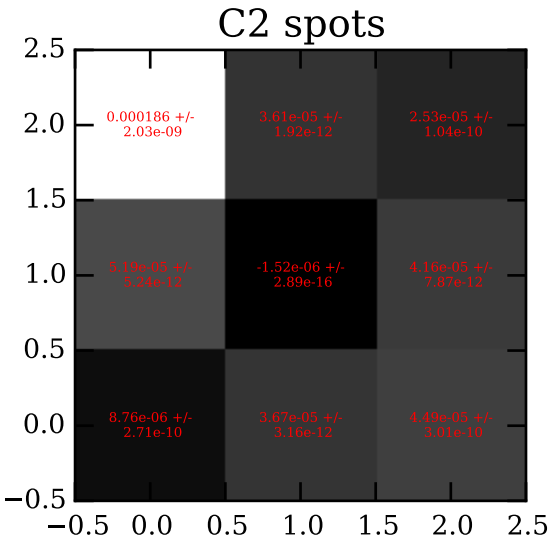

98692.5 electrons.
Position: (32,224)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

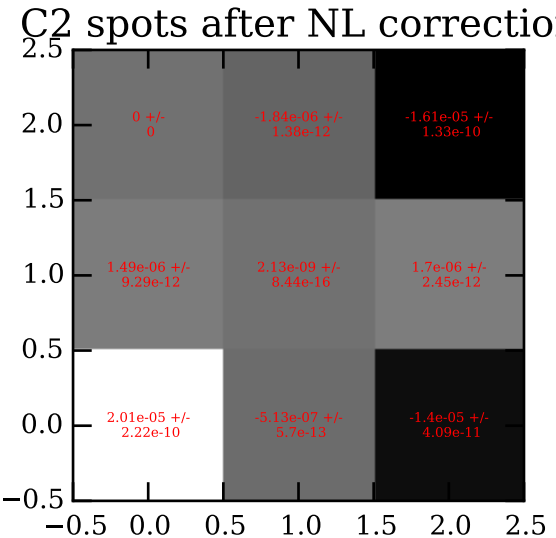

6454.16 electrons.
Position: (33,224)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

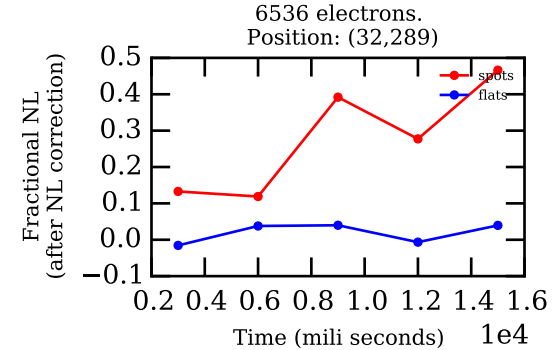

6871.66 electrons.
Position: (32,223)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

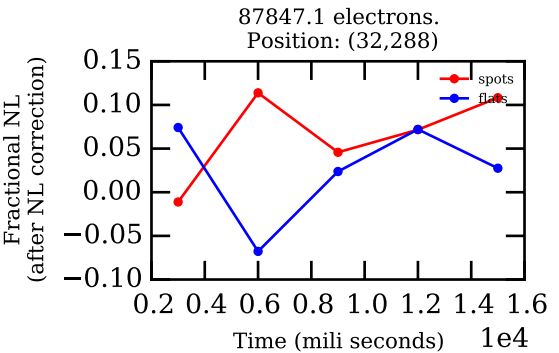

Center: (32,224)
69.1251 e/s
(1036.88 e)
563.28 e/s
(8449.19 e)
101.316 e/s
(1519.73 e)
513.04 e/s
(7695.6 e)
6004 e/s
(90060 e)
552.257 e/s
(8283.85 e)
92.7867 e/s
(1391.8 e)
581.03 e/s
(8715.45 e)
94.2371 e/s
(1413.56 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

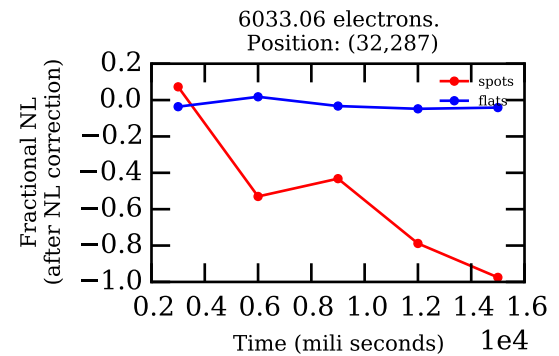

C2 flat
-7.79e-07 +/-
1.52e-19
-8.04e-07 +/-
2.93e-17
-8.55e-07 +/-
1.39e-16
-6.31e-07 +/-
1.22e-16
-7.62e-07 +/-
6.11e-17
-7.39e-07 +/-
1.3e-17
-7.71e-07 +/-
6.12e-18
-8.72e-07 +/-
1.2e-17
-7.83e-07 +/-
2.65e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

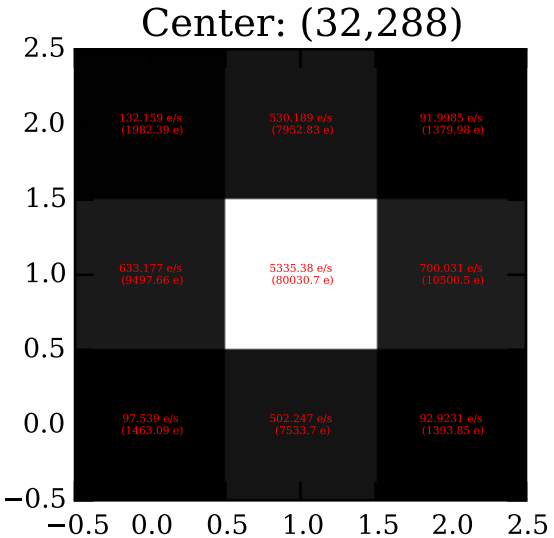

C2 spots
0.000186 +/-
2.03e-09
3.61e-05 +/-
1.92e-12
2.53e-05 +/-
1.04e-10
5.19e-05 +/-
5.24e-12
-1.52e-06 +/-
2.89e-16
4.16e-05 +/-
7.87e-12
8.76e-06 +/-
2.71e-10
3.67e-05 +/-
3.16e-12
4.49e-05 +/-
3.01e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

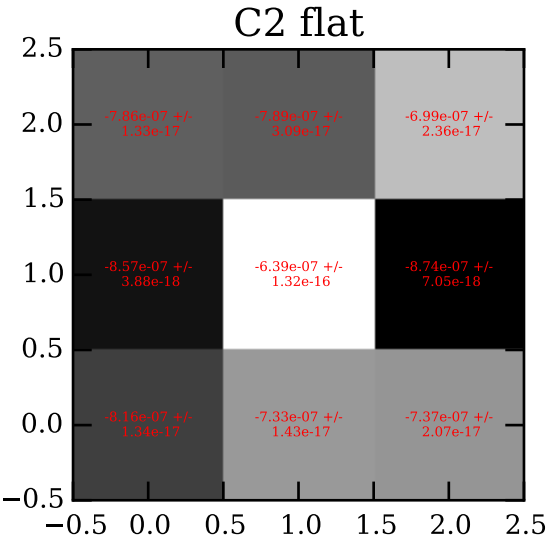

C2 spots after NL correction
0 +/-
0
-1.84e-06 +/-
1.38e-12
-1.61e-05 +/-
1.33e-10
1.49e-06 +/-
9.29e-12
2.13e-09 +/-
8.44e-16
1.7e-06 +/-
2.45e-12
2.01e-05 +/-
2.22e-10
-5.13e-07 +/-
5.7e-13
-1.4e-05 +/-
4.09e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

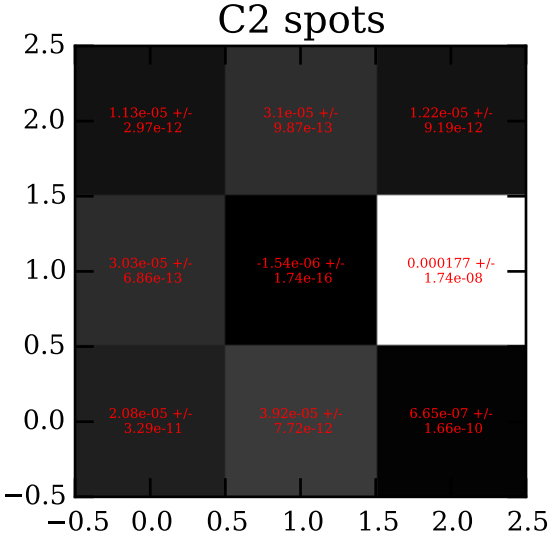

6536 electrons.
Position: (32,289)
Fractional NL
(after NL correction)
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

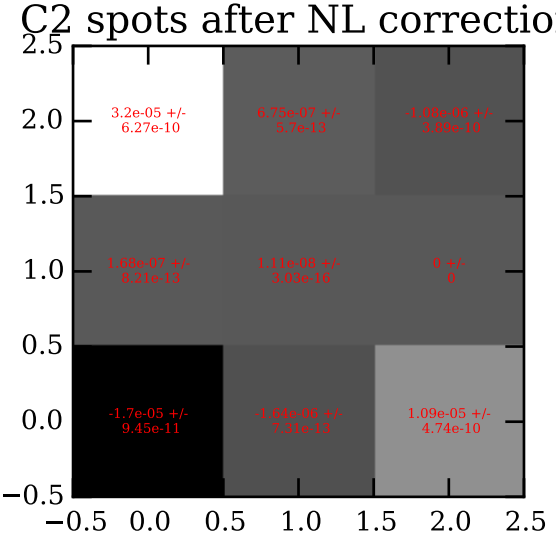

87847.1 electrons.
Position: (32,288)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
−0.10
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

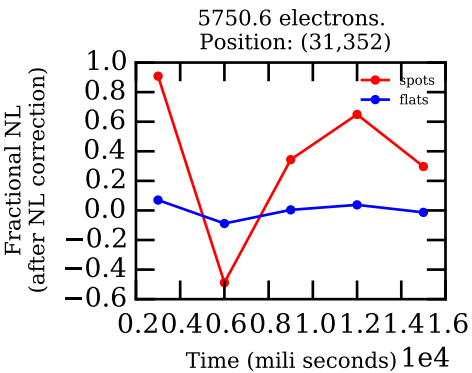

6033.06 electrons.
Position: (32,287)
Fractional NL
(after NL correction)
0.2
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

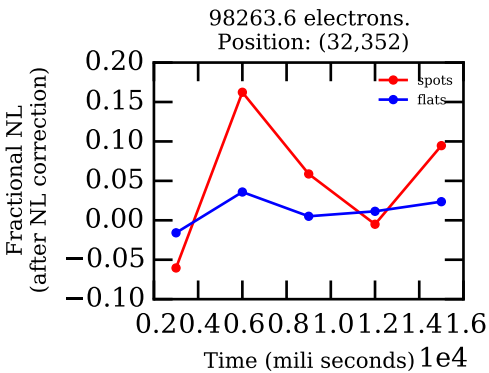

Center: (32,288)
132.159 e/s
(1982.39 e)
530.189 e/s
(7952.83 e)
91.9985 e/s
(1379.98 e)
633.177 e/s
(9497.66 e)
5335.38 e/s
(80030.7 e)
700.031 e/s
(10500.5 e)
97.539 e/s
(1463.09 e)
502.247 e/s
(7533.7 e)
92.9231 e/s
(1393.85 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

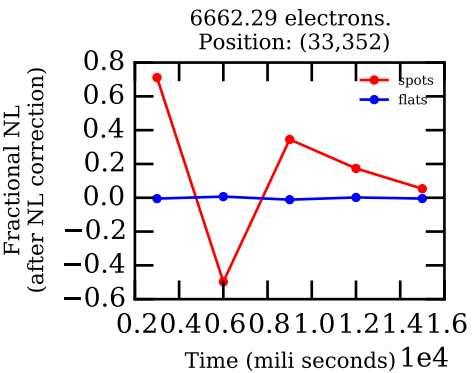

C2 flat
-7.86e-07 +/-
1.33e-17
-7.89e-07 +/-
3.89e-17
-6.99e-07 +/-
2.36e-17
-8.57e-07 +/-
3.88e-18
-6.39e-07 +/-
1.32e-16
-8.74e-07 +/-
7.05e-18
-8.16e-07 +/-
1.34e-17
-7.33e-07 +/-
1.43e-17
-7.37e-07 +/-
2.07e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

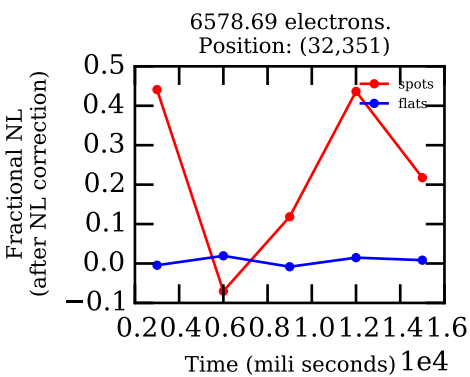

C2 spots
1.13e-05 +/-
2.97e-12
3.1e-05 +/-
9.87e-13
1.22e-05 +/-
9.19e-12
3.03e-05 +/-
6.86e-13
-1.54e-06 +/-
1.74e-16
0.000177 +/-
1.74e-08
2.08e-05 +/-
3.29e-11
3.92e-05 +/-
7.72e-12
6.65e-07 +/-
1.66e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

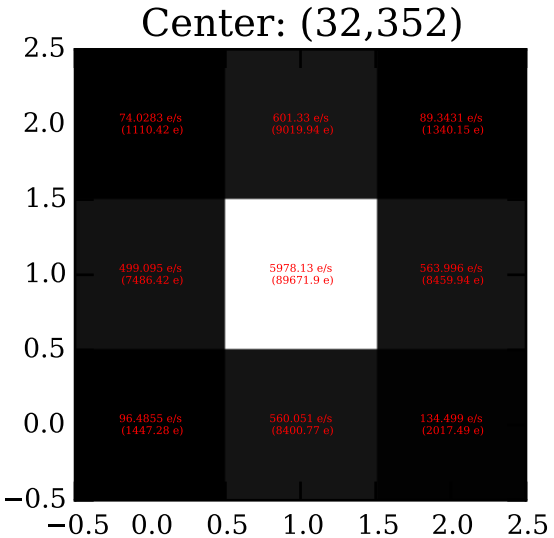

C2 spots after NL correction
3.2e-05 +/-
6.27e-10
6.75e-07 +/-
5.7e-13
-1.08e-06 +/-
3.89e-10
1.68e-07 +/-
8.21e-13
1.11e-08 +/-
3.93e-10
0 +/-
0
-1.7e-05 +/-
9.45e-11
-1.64e-06 +/-
7.31e-13
1.09e-05 +/-
4.74e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

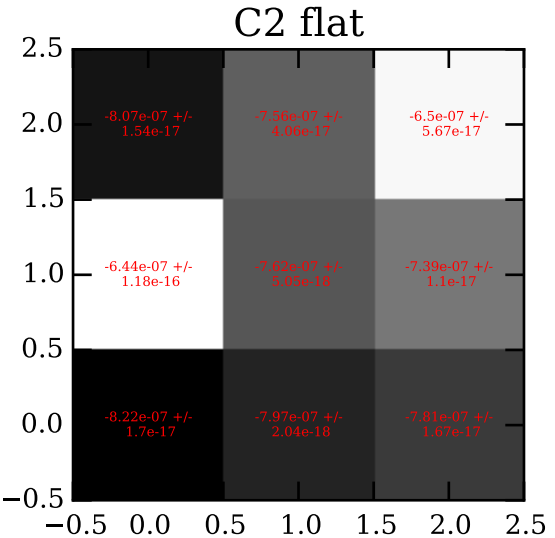

5750.6 electrons.
Position: (31,352)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

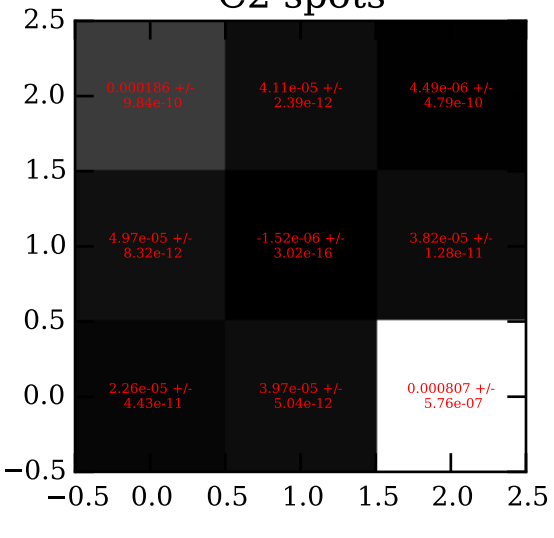

98263.6 electrons.
Position: (32,352)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

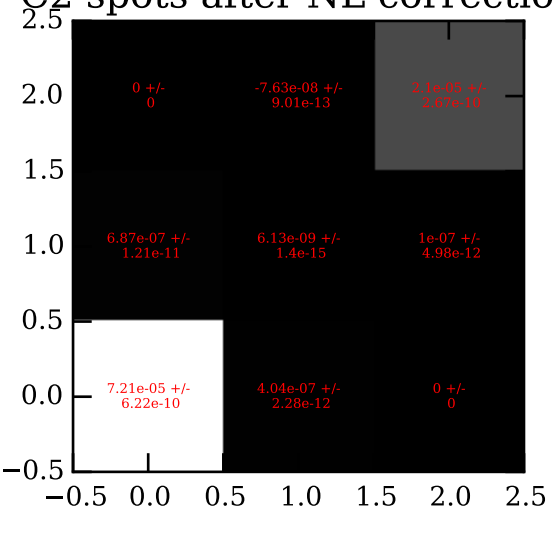

6662.29 electrons.
Position: (33,352)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

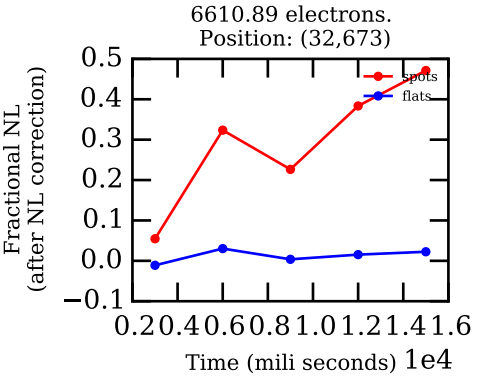

6578.69 electrons.
Position: (32,351)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

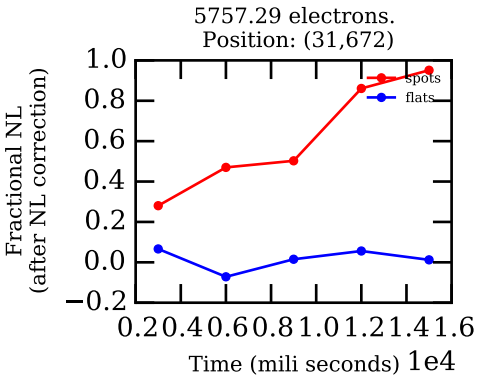

Center: (32,352)
74.0283 e/s
(1110.42 e)
601.33 e/s
(9019.94 e)
89.3431 e/s
(1340.15 e)
499.095 e/s
(7486.42 e)
5978.13 e/s
(89671.9 e)
563.996 e/s
(8459.94 e)
96.4855 e/s
(1447.28 e)
560.051 e/s
(8400.77 e)
134.499 e/s
(2017.49 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

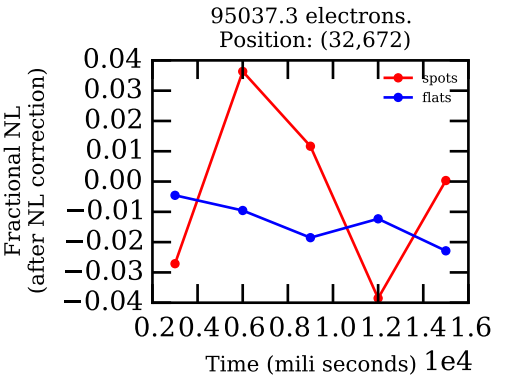

C2 flat
-8.07e-07 +/-
1.54e-17
-7.56e-07 +/-
4.06e-17
-6.5e-07 +/-
5.67e-17
-6.44e-07 +/-
1.18e-16
-7.62e-07 +/-
3.05e-18
-7.39e-07 +/-
1.1e-17
-8.22e-07 +/-
1.7e-17
-7.97e-07 +/-
2.04e-18
-7.81e-07 +/-
1.67e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

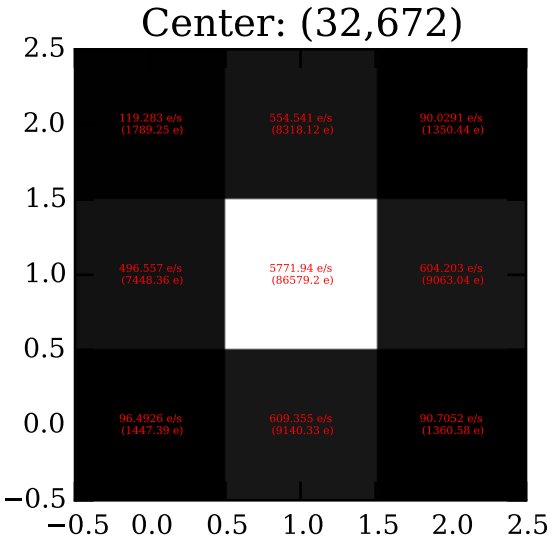

C2 spots
0.000186 +/-
9.84e-10
4.11e-05 +/-
2.39e-12
4.49e-06 +/-
4.79e-10
4.97e-05 +/-
8.32e-12
-1.52e-06 +/-
3.02e-16
3.82e-05 +/-
1.28e-11
2.26e-05 +/-
4.43e-11
3.97e-05 +/-
5.04e-12
0.000807 +/-
5.76e-07
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

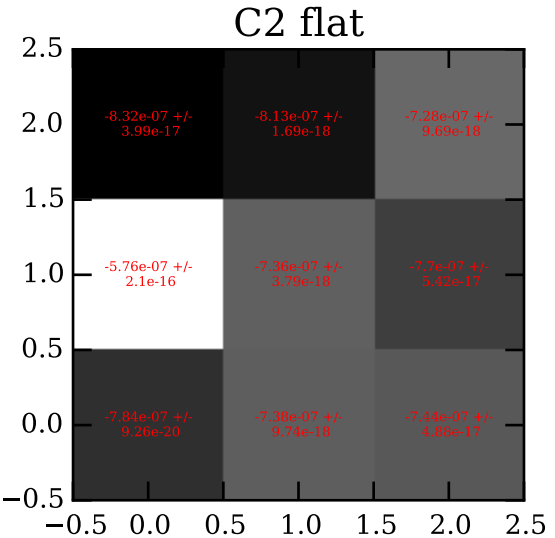

C2 spots after NL correction
0 +/-
0
-7.63e-08 +/-
9.01e-13
2.1e-05 +/-
2.67e-10
6.87e-07 +/-
1.21e-11
6.13e-09 +/-
1.4e-15
1e-07 +/-
4.98e-12
7.21e-05 +/-
6.22e-10
4.04e-07 +/-
2.28e-12
0 +/-
0
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

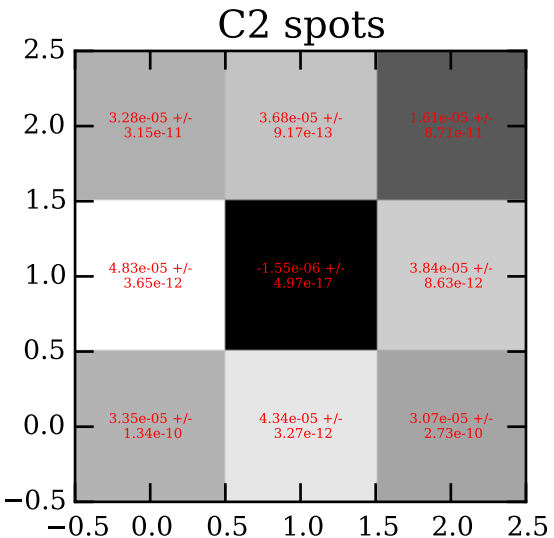

6610.89 electrons.
Position: (32,673)
Fractional NL
(after NL correction)
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

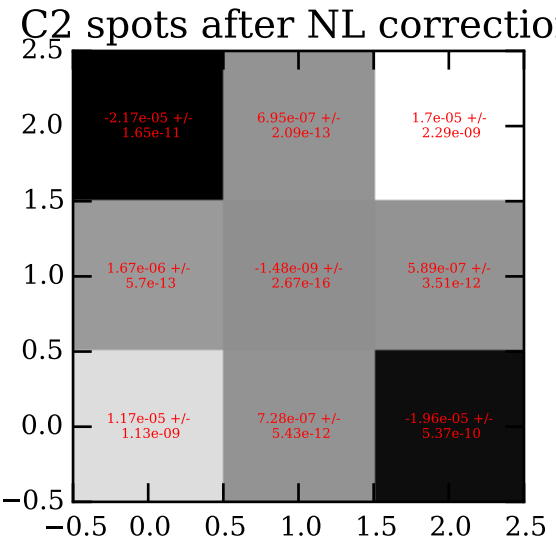

5757.29 electrons.
Position: (31,672)
Fractional NL
(after NL correction)
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

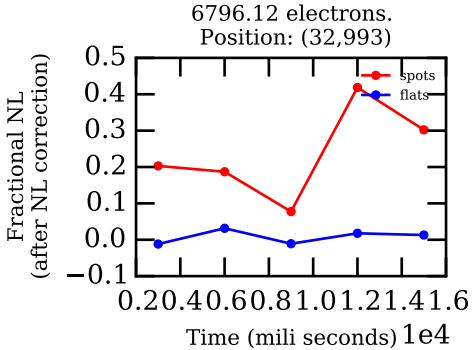

95037.3 electrons.
Position: (32,672)
Fractional NL
(after NL correction)
0.04
0.03
0.02
0.01
0.00
−0.01
−0.02
−0.03
−0.04
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

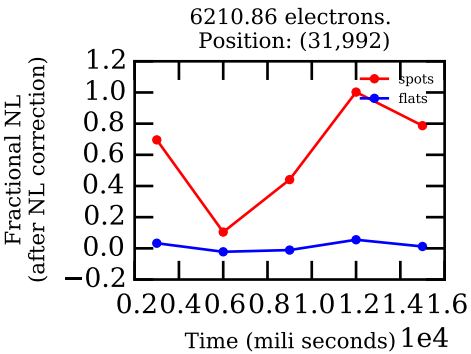

Center: (32,672)
119.283 e/s
(1789.25 e)
554.541 e/s
(8318.12 e)
90.0291 e/s
(1350.44 e)
496.557 e/s
(7448.36 e)
5771.94 e/s
(86579.2 e)
604.203 e/s
(9063.04 e)
96.4926 e/s
(1447.39 e)
609.355 e/s
(9140.33 e)
90.7052 e/s
(1360.58 e)

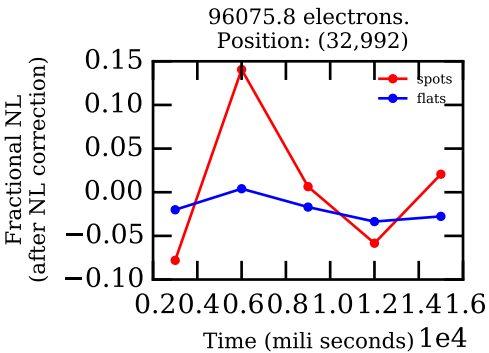

C2 flat
-8.32e-07 +/-
3.99e-17
-8.13e-07 +/-
1.69e-18
-7.28e-07 +/-
9.69e-18
-5.76e-07 +/-
2.1e-16
-7.36e-07 +/-
3.79e-18
-7.7e-07 +/-
5.42e-17
-7.84e-07 +/-
9.26e-20
-7.38e-07 +/-
9.74e-18
-7.44e-07 +/-
4.66e-17

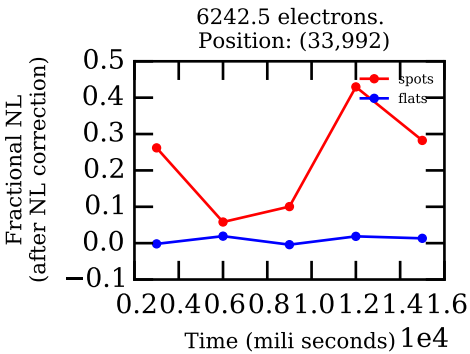

C2 spots
3.28e-05 +/-
3.15e-11
3.68e-05 +/-
9.17e-13
1.61e-05 +/-
8.71e-12
4.83e-05 +/-
3.65e-12
-1.55e-06 +/-
4.97e-17
3.84e-05 +/-
8.63e-12
3.35e-05 +/-
1.34e-10
4.34e-05 +/-
3.27e-12
3.07e-05 +/-
2.73e-10

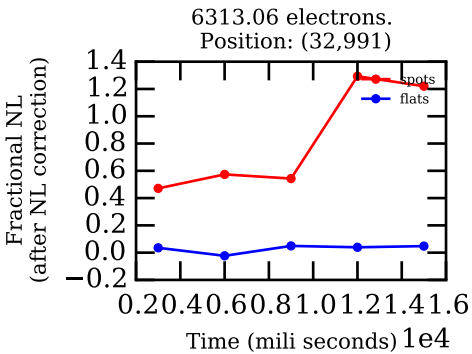

C2 spots after NL correction
-2.17e-05 +/-
1.65e-11
6.95e-07 +/-
2.09e-13
1.7e-05 +/-
2.29e-09
1.67e-06 +/-
5.7e-13
-1.48e-09 +/-
2.67e-16
5.89e-07 +/-
3.51e-12
1.17e-05 +/-
1.13e-09
7.28e-07 +/-
5.43e-12
-1.96e-05 +/-
5.37e-10

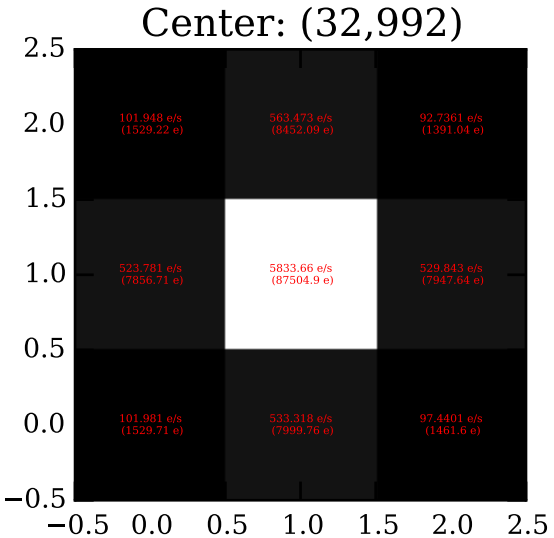

6796.12 electrons.
Position: (32,993)
Fractional NL
(after NL correction)
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

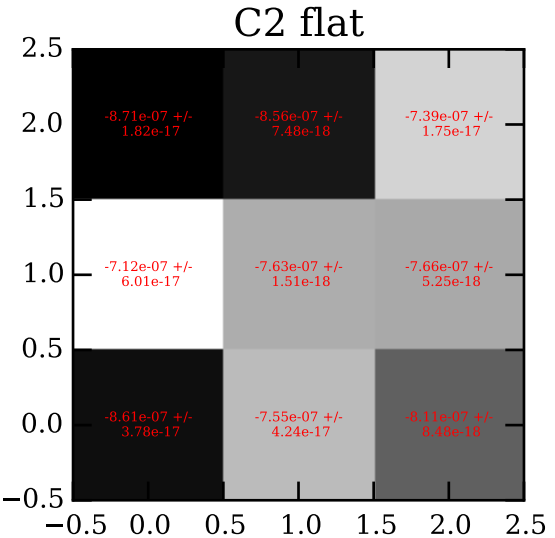

6210.86 electrons.
Position: (31,992)
Fractional NL
(after NL correction)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

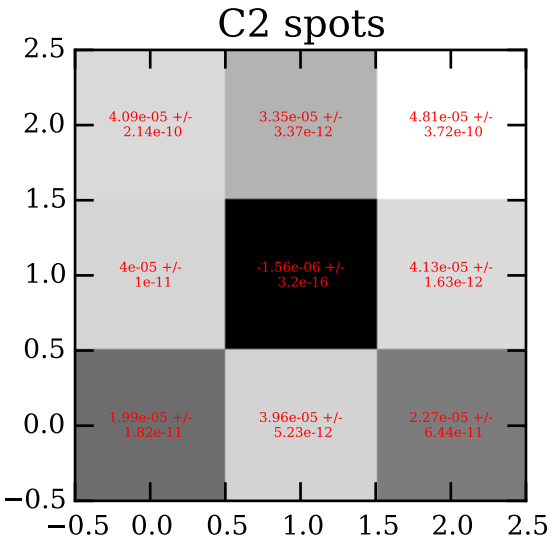

96075.8 electrons.
Position: (32,992)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
−0.10
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

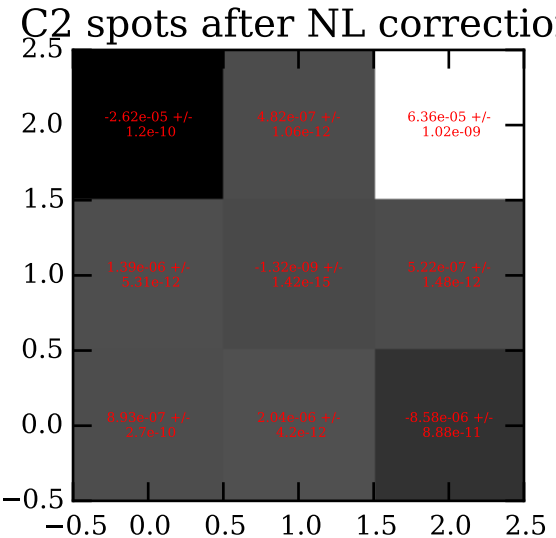

6242.5 electrons.
Position: (33,992)
Fractional NL
(after NL correction)
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

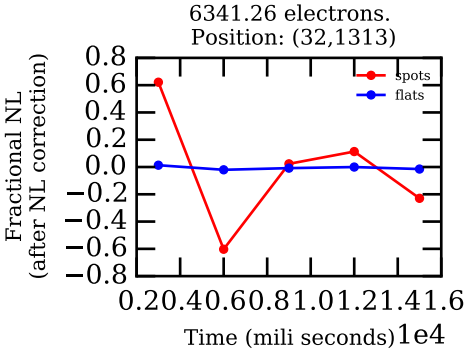

6313.06 electrons.
Position: (32,991)
Fractional NL
(after NL correction)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

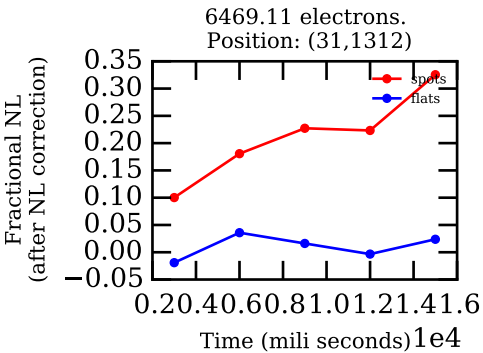

Center: (32,992)
101.948 e/s
(1529.22 e)
563.473 e/s
(8452.09 e)
92.7361 e/s
(1391.04 e)
523.781 e/s
(7856.71 e)
5833.66 e/s
(87504.9 e)
529.843 e/s
(7947.64 e)
101.981 e/s
(1529.71 e)
533.318 e/s
(7999.76 e)
97.4401 e/s
(1461.6 e)

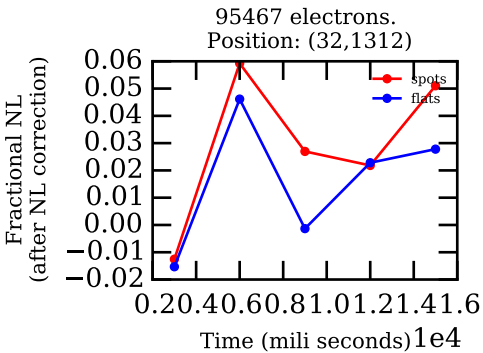

C2 flat
-8.71e-07 +/-
1.82e-17
-8.56e-07 +/-
7.48e-18
-7.39e-07 +/-
1.75e-17
-7.12e-07 +/-
6.01e-17
-7.63e-07 +/-
1.51e-18
-7.66e-07 +/-
5.25e-18
-8.61e-07 +/-
3.78e-17
-7.55e-07 +/-
4.24e-17

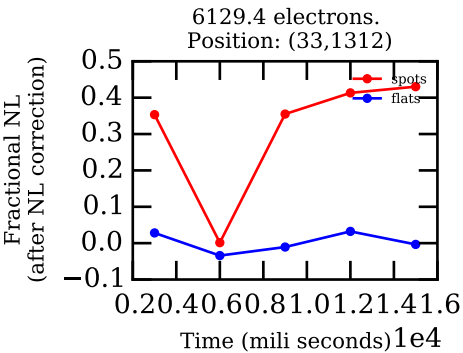

C2 spots
4.09e-05 +/-
2.14e-10
3.35e-05 +/-
3.37e-12
4.81e-05 +/-
3.72e-10
4e-05 +/-
1e-11
-1.56e-06 +/-
3.2e-16
4.13e-05 +/-
1.63e-12
1.99e-05 +/-
1.82e-11
3.96e-05 +/-
5.23e-12
2.27e-05 +/-
6.44e-11

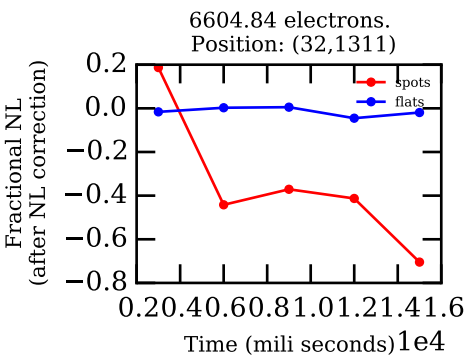

C2 spots after NL correction
-2.62e-05 +/-
1.2e-10
6.36e-05 +/-
1.02e-09
-1.32e-09 +/-
1.42e-15
5.22e-07 +/-
1.48e-12
-8.58e-06 +/-
8.88e-11

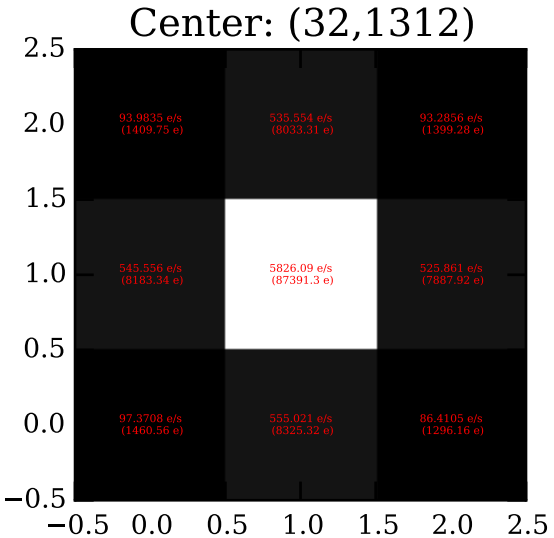

6341.26 electrons.
Position: (32,1313)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

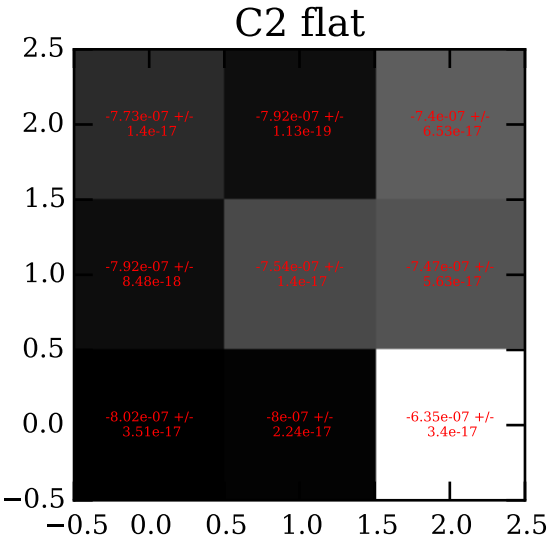

6469.11 electrons.
Position: (31,1312)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

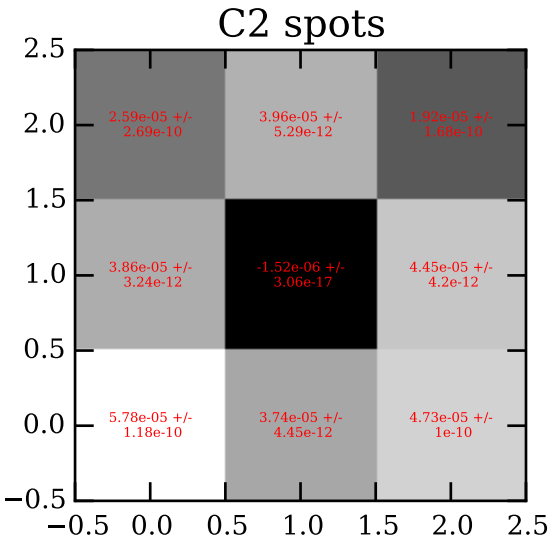

95467 electrons.
Position: (32,1312)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

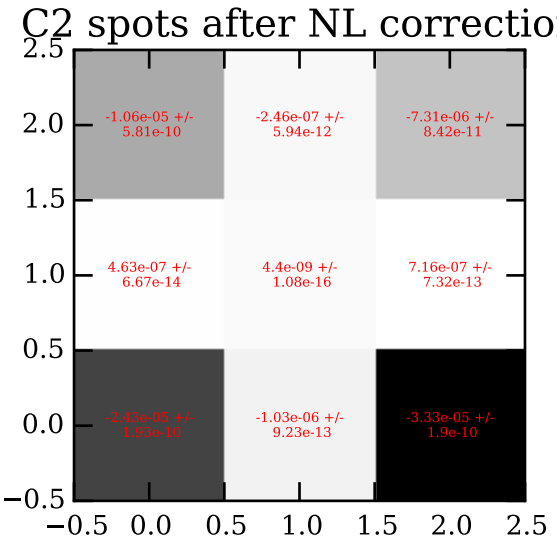

6129.4 electrons.
Position: (33,1312)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

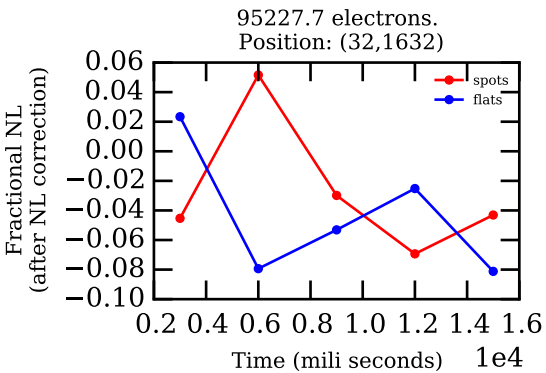

6604.84 electrons.
Position: (32,1311)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

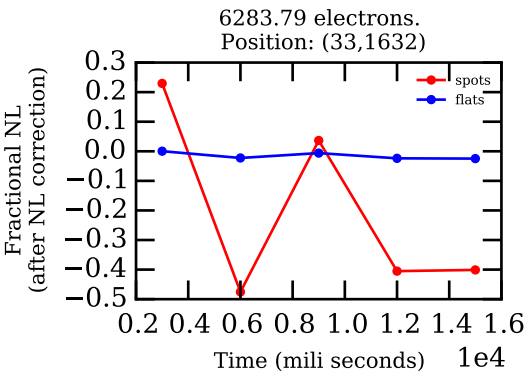

Center: (32,1312)
93.9835 e/s
(1409.75 e)
535.554 e/s
(8033.31 e)
93.2856 e/s
(1399.28 e)
545.556 e/s
(8183.34 e)
5826.09 e/s
(87391.3 e)
525.861 e/s
(7887.92 e)
97.3708 e/s
(1460.56 e)
555.021 e/s
(8325.32 e)
86.4105 e/s
(1296.16 e)

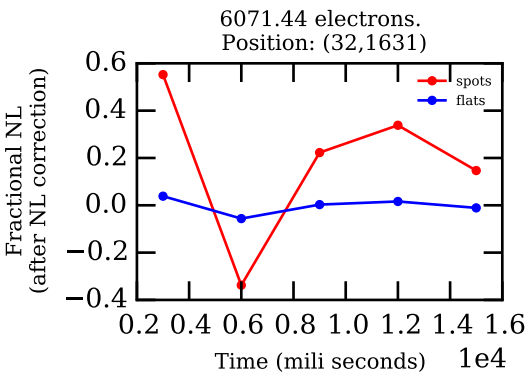

C2 flat
-7.73e-07 +/-
1.4e-17
-7.92e-07 +/-
1.13e-19
-7.4e-07 +/-
6.53e-17
-7.92e-07 +/-
8.48e-18
-7.54e-07 +/-
1.4e-17
-7.47e-07 +/-
5.65e-17
-8.02e-07 +/-
3.51e-17
-8e-07 +/-
2.24e-17
-6.35e-07 +/-
3.4e-17

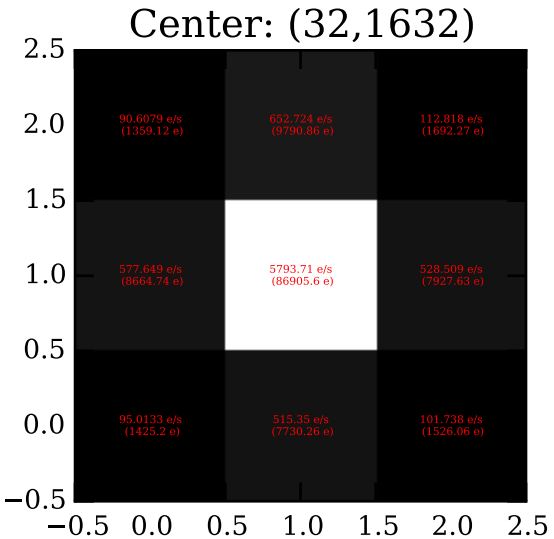

C2 spots
2.59e-05 +/-
2.69e-10
3.96e-05 +/-
5.29e-12
1.92e-05 +/-
1.68e-10
3.86e-05 +/-
3.24e-12
-1.52e-06 +/-
3.06e-17
4.45e-05 +/-
4.2e-12
5.78e-05 +/-
1.18e-10
3.74e-05 +/-
4.45e-12
4.73e-05 +/-
1e-10

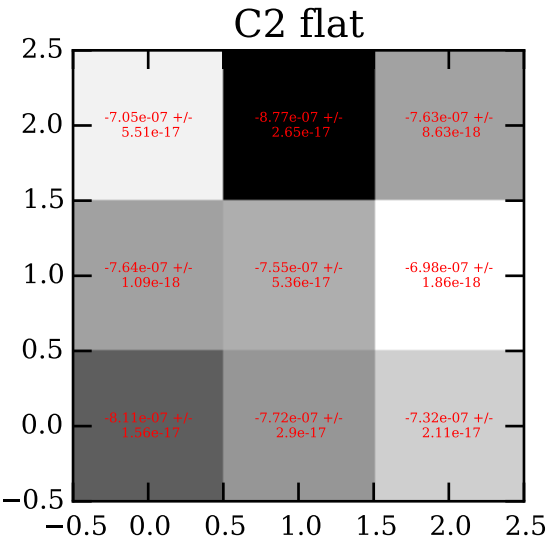

C2 spots after NL correction
-1.06e-05 +/-
5.81e-10
-2.46e-07 +/-
5.94e-12
-7.31e-06 +/-
8.42e-11
4.63e-07 +/-
6.67e-14
4.4e-09 +/-
1.08e-16
7.16e-07 +/-
7.32e-13
-2.43e-05 +/-
1.93e-10
-1.03e-06 +/-
9.23e-13
-3.33e-05 +/-
1.9e-10

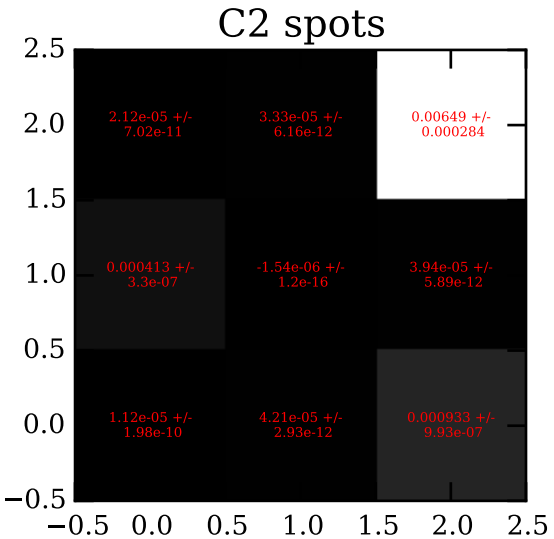

95227.7 electrons.
Position: (32,1632)
Fractional NL
(after NL correction)
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

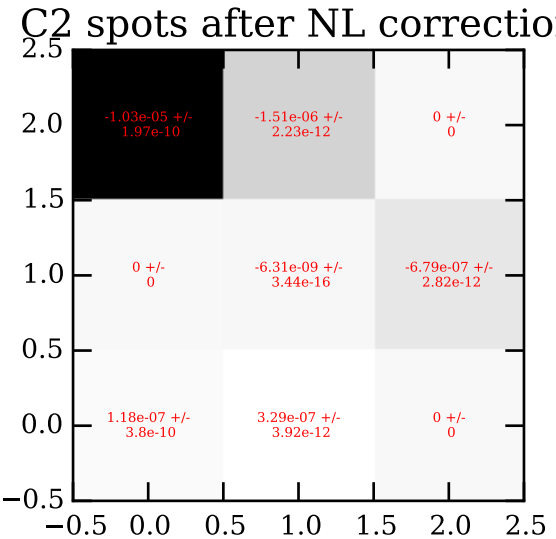

6283.79 electrons.
Position: (33,1632)
Fractional NL
(after NL correction)
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

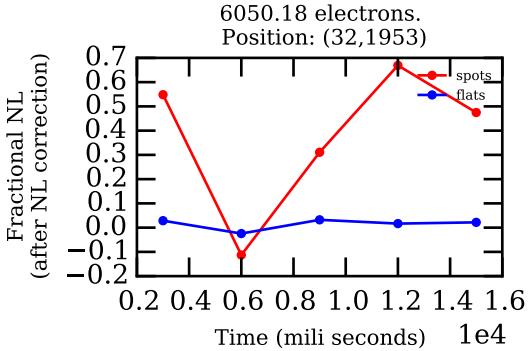

6071.44 electrons.
Position: (32,1631)
Fractional NL
(after NL correction)
0.6
0.4
0.2
0.0
−0.2
−0.4
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

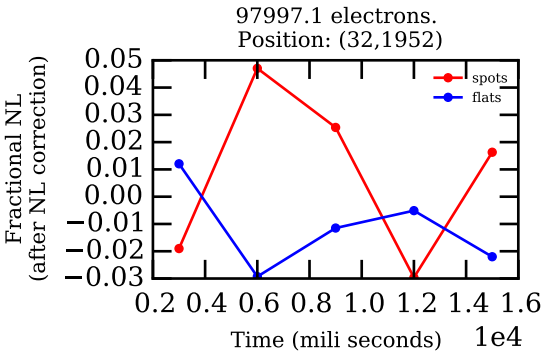

Center: (32,1632)
90.6079 e/s
(1359.12 e)
652.724 e/s
(9790.86 e)
112.818 e/s
(1692.27 e)
577.649 e/s
(8664.74 e)
5793.71 e/s
(86905.6 e)
528.509 e/s
(7927.63 e)
95.0133 e/s
(1425.2 e)
515.35 e/s
(7730.26 e)
101.738 e/s
(1526.06 e)

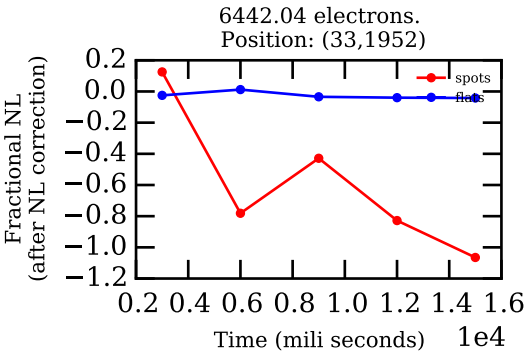

C2 flat
-7.05e-07 +/-
5.51e-17
-8.77e-07 +/-
2.65e-17
-7.63e-07 +/-
8.63e-18
-7.64e-07 +/-
1.09e-18
-7.55e-07 +/-
5.36e-17
-6.98e-07 +/-
1.86e-18
-8.11e-07 +/-
1.56e-17
-7.72e-07 +/-
2.9e-17
-7.32e-07 +/-
2.11e-17

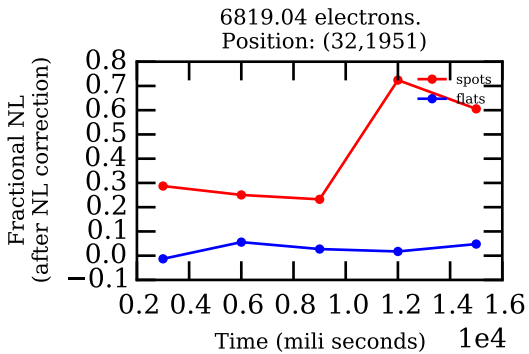

C2 spots
2.12e-05 +/-
7.02e-11
3.33e-05 +/-
6.16e-12
0.00649 +/-
0.000284
0.000413 +/-
3.3e-07
-1.54e-06 +/-
1.2e-16
3.94e-05 +/-
5.89e-12
1.12e-05 +/-
1.98e-10
4.21e-05 +/-
2.93e-12
0.000933 +/-
9.93e-07

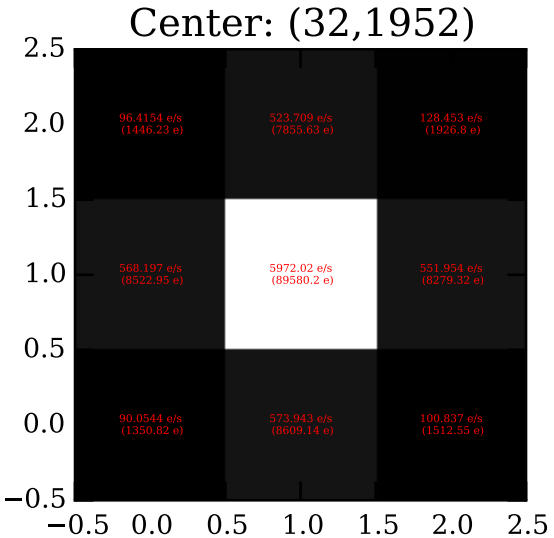

C2 spots after NL correction
-1.03e-05 +/-
1.97e-10
-1.51e-06 +/-
2.23e-12
0 +/-
0
0 +/-
0
-6.31e-09 +/-
3.44e-16
-6.79e-07 +/-
2.82e-12
1.18e-07 +/-
3.8e-10
3.29e-07 +/-
3.92e-12
0 +/-
0

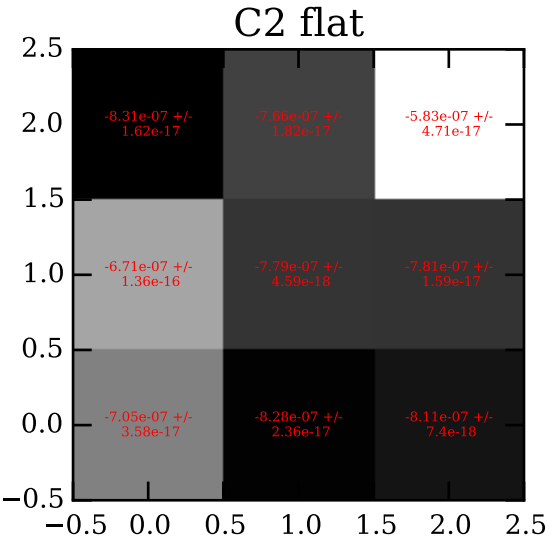

6050.18 electrons.
Position: (32,1953)
Fractional NL
(after NL correction)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

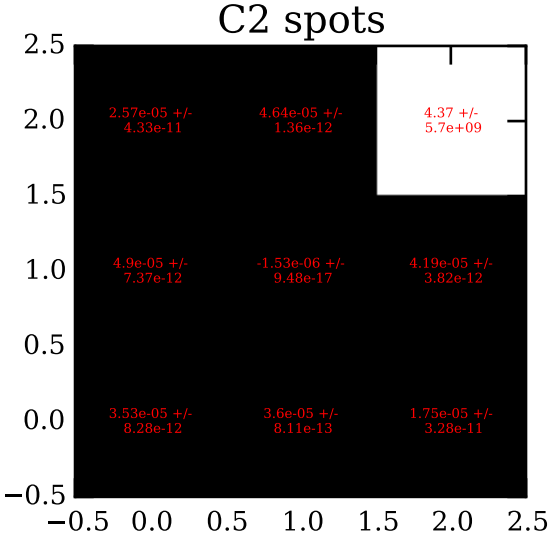

97997.1 electrons.
Position: (32,1952)
Fractional NL
(after NL correction)
0.05
0.04
0.03
0.02
0.01
0.00
−0.01
−0.02
−0.03
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

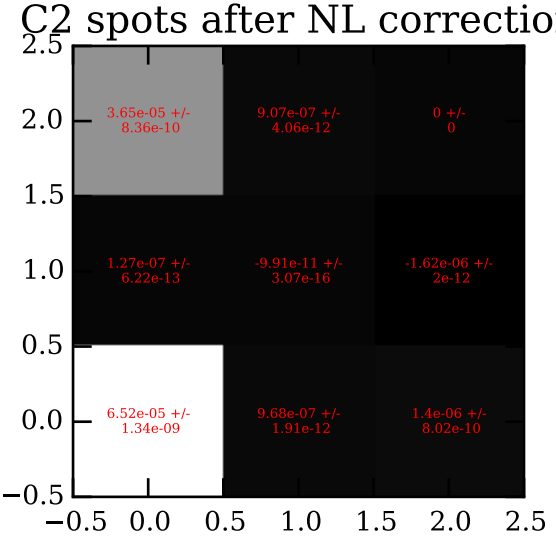

6442.04 electrons.
Position: (33,1952)
Fractional NL
(after NL correction)
0.2
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

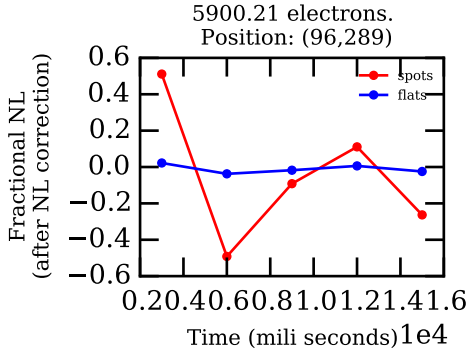

6819.04 electrons.
Position: (32,1951)
Fractional NL
(after NL correction)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

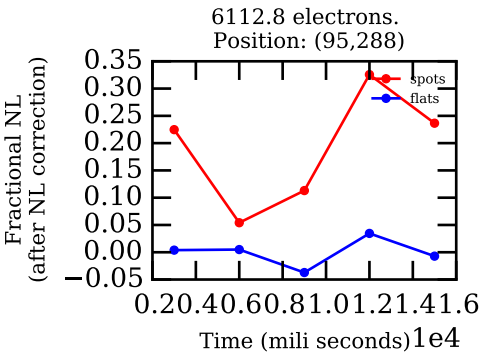

Center: (32,1952)
96.4154 e/s
(1446.23 e)
523.709 e/s
(7855.63 e)
128.453 e/s
(1926.8 e)
568.197 e/s
(8522.95 e)
5972.02 e/s
(89580.2 e)
551.954 e/s
(8279.32 e)
90.0544 e/s
(1350.82 e)
573.943 e/s
(8609.14 e)
100.837 e/s
(1512.55 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

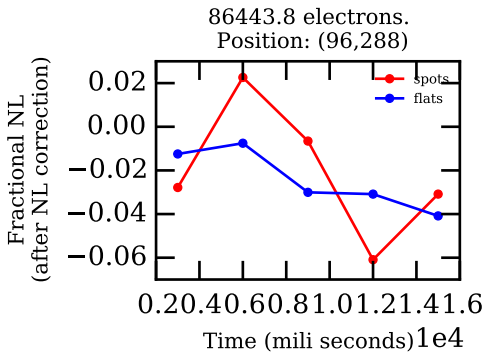

C2 flat
-8.31e-07 +/-
1.62e-17
-7.66e-07 +/-
1.82e-17
-5.83e-07 +/-
4.71e-17
-6.71e-07 +/-
1.36e-16
-7.79e-07 +/-
4.59e-18
-7.81e-07 +/-
1.59e-17
-7.05e-07 +/-
3.58e-17
-8.28e-07 +/-
2.36e-17
-8.11e-07 +/-
7.4e-18
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

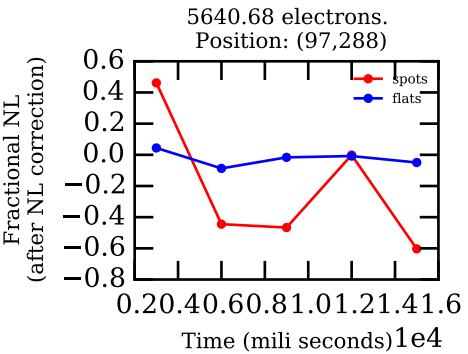

C2 spots
2.57e-05 +/-
4.33e-11
4.64e-05 +/-
1.36e-12
4.37 +/-
5.7e+09
4.9e-05 +/-
7.37e-12
-1.53e-06 +/-
9.48e-17
4.19e-05 +/-
3.82e-12
3.53e-05 +/-
8.28e-12
3.6e-05 +/-
8.11e-13
1.75e-05 +/-
3.28e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

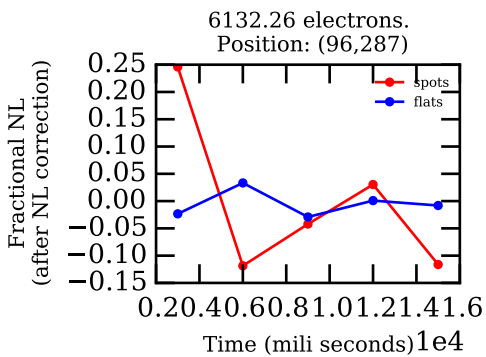

C2 spots after NL correction
3.65e-05 +/-
8.36e-10
9.07e-07 +/-
4.06e-12
0 +/-
0
1.27e-07 +/-
6.22e-13
-9.91e-11 +/-
3.07e-16
-1.62e-06 +/-
2e-12
6.52e-05 +/-
1.34e-09
9.68e-07 +/-
1.91e-12
1.4e-06 +/-
8.02e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

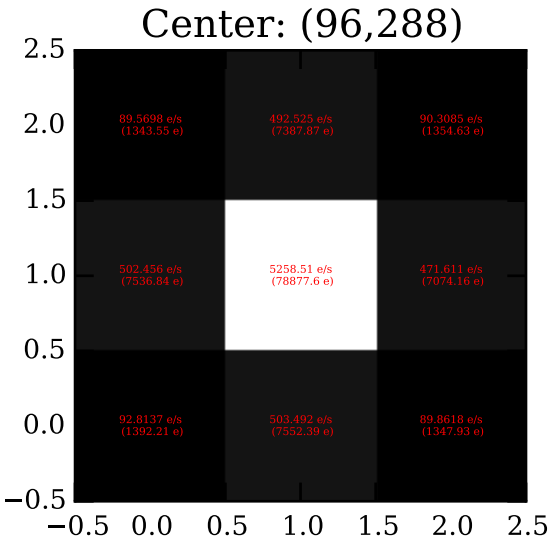

5900.21 electrons.
Position: (96,289)
Fractional NL
(after NL correction)
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

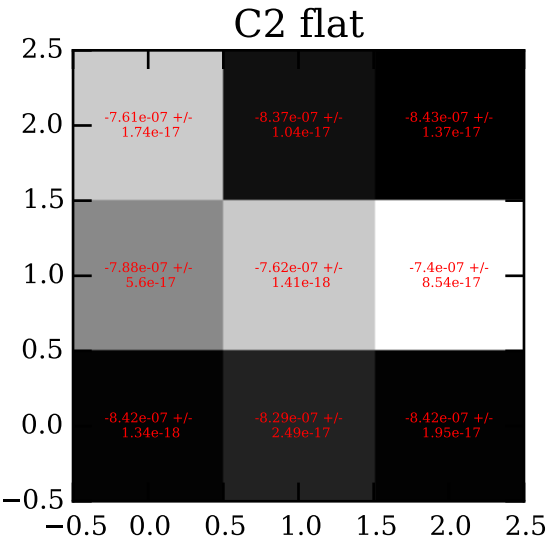

6112.8 electrons.
Position: (95,288)
Fractional NL
(after NL correction)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

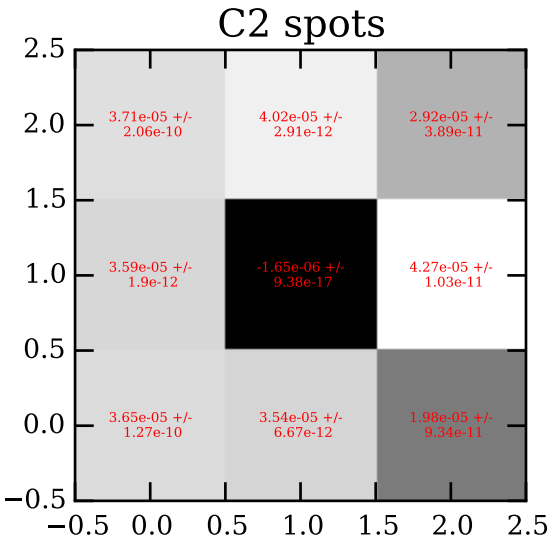

86443.8 electrons.
Position: (96,288)
Fractional NL
(after NL correction)
0.02
0.00
−0.02
−0.04
−0.06
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

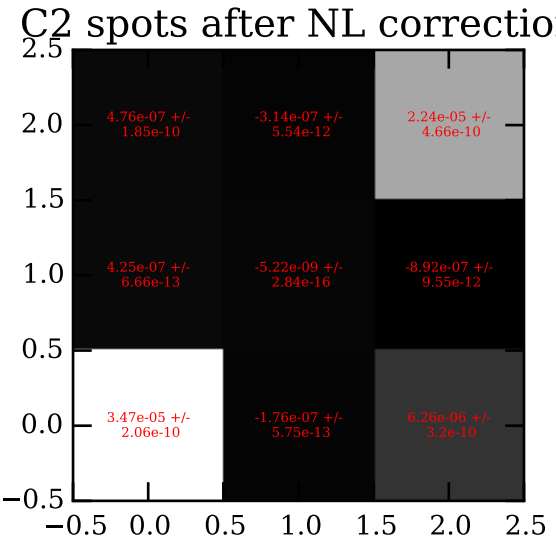

5640.68 electrons.
Position: (97,288)
Fractional NL
(after NL correction)
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.8
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

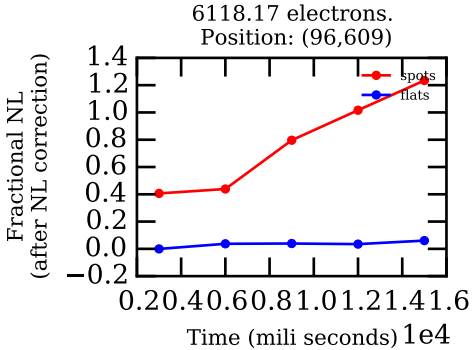

6132.26 electrons.
Position: (96,287)
Fractional NL
(after NL correction)
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

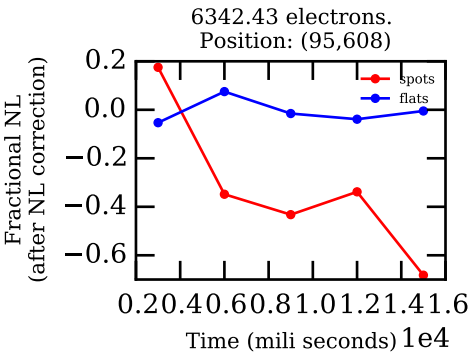

Center: (96,288)
89.5698 e/s
(1343.55 e)
492.525 e/s
(7387.87 e)
90.3085 e/s
(1354.63 e)
502.456 e/s
(7536.84 e)
5258.51 e/s
(78877.6 e)
471.611 e/s
(7074.16 e)
92.8137 e/s
(1392.21 e)
503.492 e/s
(7552.39 e)
89.8618 e/s
(1347.93 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

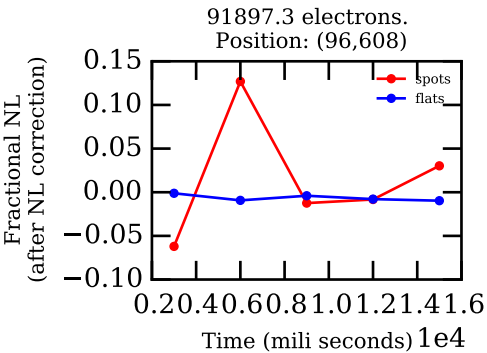

C2 flat
-7.61e-07 +/-
1.74e-17
-8.37e-07 +/-
1.04e-17
-8.43e-07 +/-
1.37e-17
-7.88e-07 +/-
5.6e-17
-7.62e-07 +/-
1.41e-18
-7.4e-07 +/-
8.54e-17
-8.42e-07 +/-
1.34e-18
-8.29e-07 +/-
2.49e-17
-8.42e-07 +/-
1.95e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

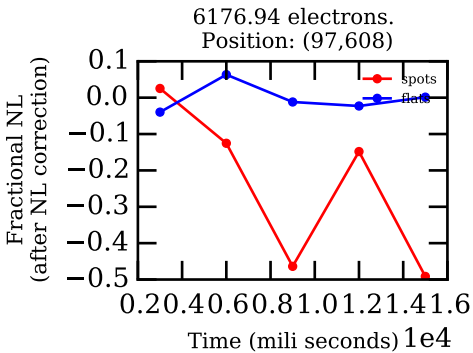

C2 spots
3.71e-05 +/-
2.06e-10
4.02e-05 +/-
2.91e-12
2.92e-05 +/-
3.89e-11
3.59e-05 +/-
1.9e-12
-1.65e-06 +/-
9.38e-17
4.27e-05 +/-
1.03e-11
3.65e-05 +/-
1.27e-10
3.54e-05 +/-
6.67e-12
1.98e-05 +/-
9.34e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

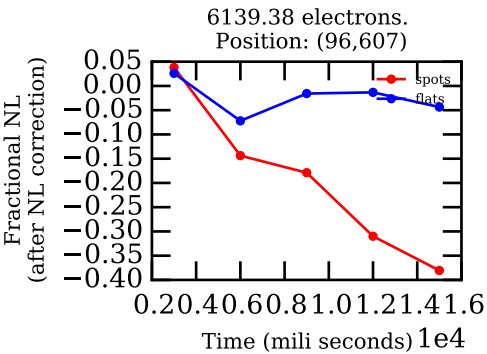

C2 spots after NL correction
4.76e-07 +/-
1.85e-10
-3.14e-07 +/-
5.54e-12
2.24e-05 +/-
4.66e-10
4.25e-07 +/-
6.66e-13
-5.22e-09 +/-
2.84e-16
-8.92e-07 +/-
9.55e-12
3.47e-05 +/-
2.06e-10
-1.76e-07 +/-
5.75e-13
6.26e-06 +/-
3.2e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

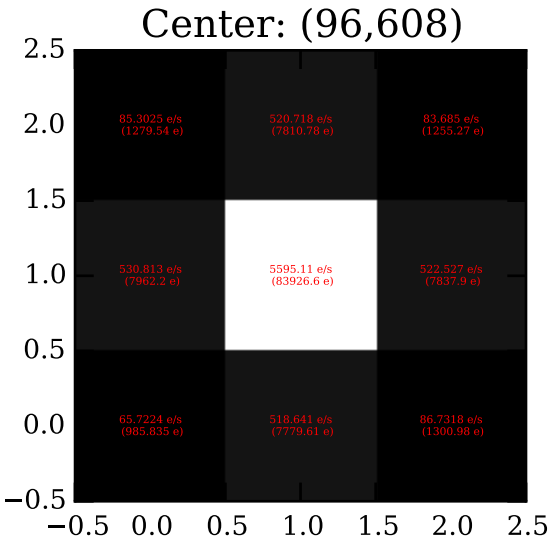

6118.17 electrons.
Position: (96,609)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

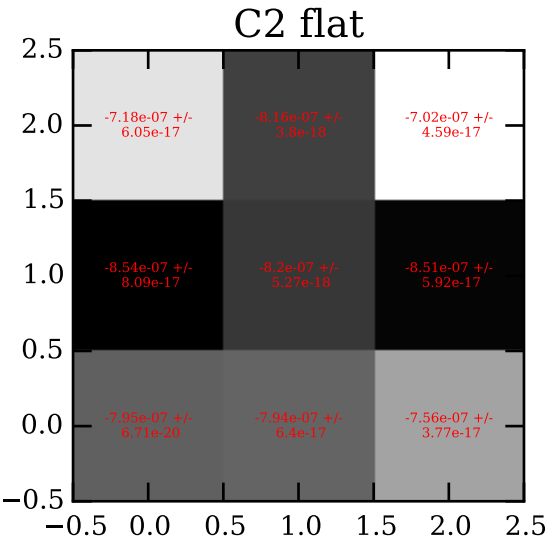

6342.43 electrons.
Position: (95,608)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

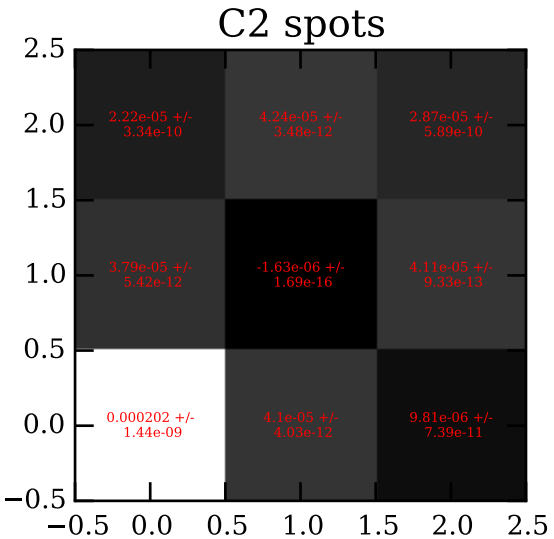

91897.3 electrons.
Position: (96,608)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

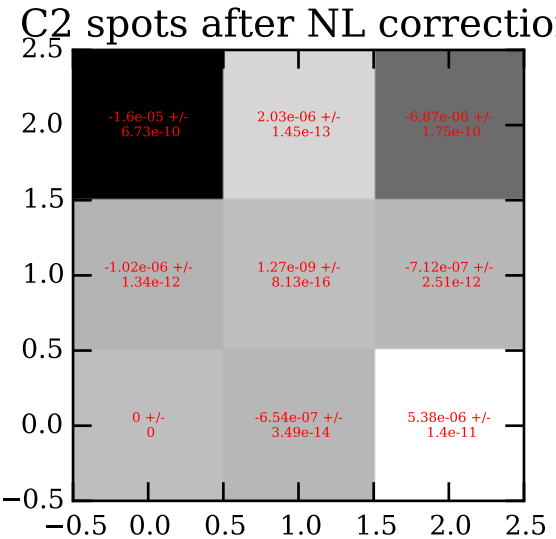

6176.94 electrons.
Position: (97,608)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

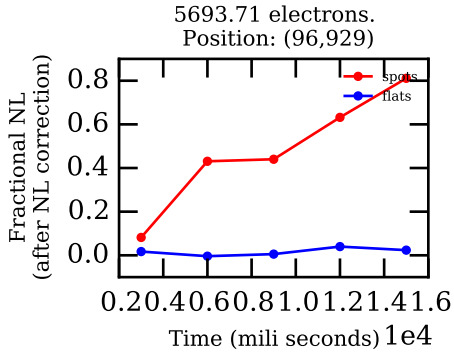

6139.38 electrons.
Position: (96,607)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

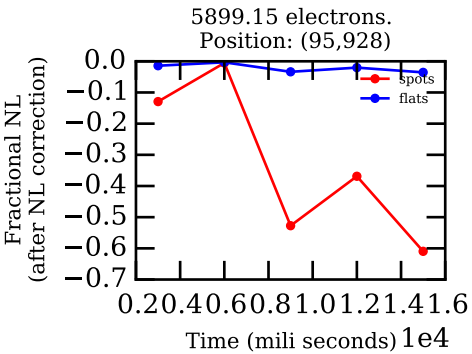

Center: (96,608)
85.3025 e/s
(1279.54 e)
520.718 e/s
(7810.78 e)
83.685 e/s
(1255.27 e)
530.813 e/s
(7962.2 e)
5595.11 e/s
(83926.6 e)
522.527 e/s
(7837.9 e)
65.7224 e/s
(985.835 e)
518.641 e/s
(7779.61 e)
86.7318 e/s
(1300.98 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

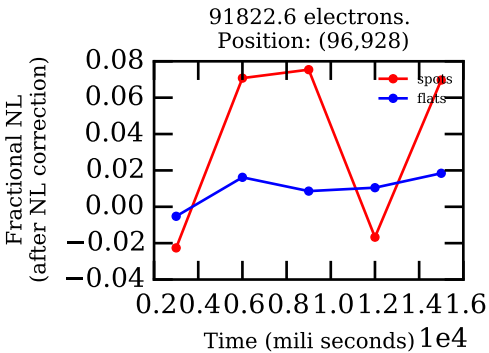

C2 flat
-7.18e-07 +/-
6.05e-17
-8.16e-07 +/-
3.8e-18
-7.02e-07 +/-
4.59e-17
-8.54e-07 +/-
8.09e-17
-8.2e-07 +/-
5.27e-18
-8.51e-07 +/-
5.92e-17
-7.95e-07 +/-
6.71e-20
-7.94e-07 +/-
6.4e-17
-7.56e-07 +/-
3.77e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

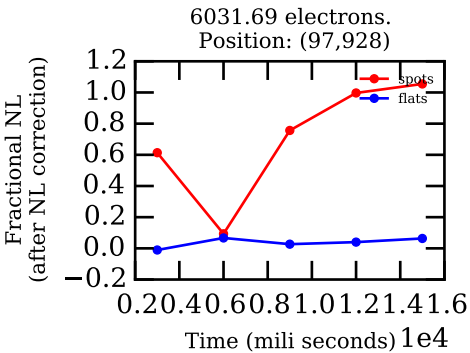

C2 spots
2.22e-05 +/-
3.34e-10
4.24e-05 +/-
3.48e-12
2.87e-05 +/-
5.89e-10
3.79e-05 +/-
5.42e-12
-1.63e-06 +/-
1.69e-16
4.11e-05 +/-
9.33e-13
0.000202 +/-
1.44e-09
4.1e-05 +/-
4.03e-12
9.81e-06 +/-
7.39e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

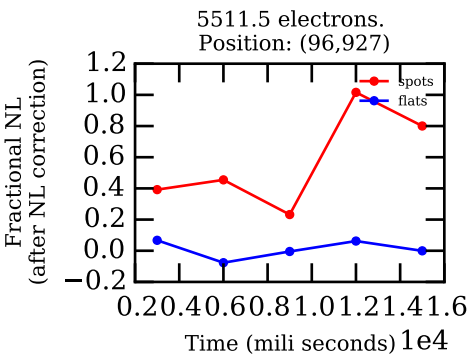

C2 spots after NL correction
-1.6e-05 +/-
6.73e-10
2.03e-06 +/-
1.45e-13
-6.87e-06 +/-
1.75e-10
-1.02e-06 +/-
1.34e-12
1.27e-09 +/-
8.13e-16
-7.12e-07 +/-
2.51e-12
0 +/-
0
-6.54e-07 +/-
3.49e-14
5.38e-06 +/-
1.4e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

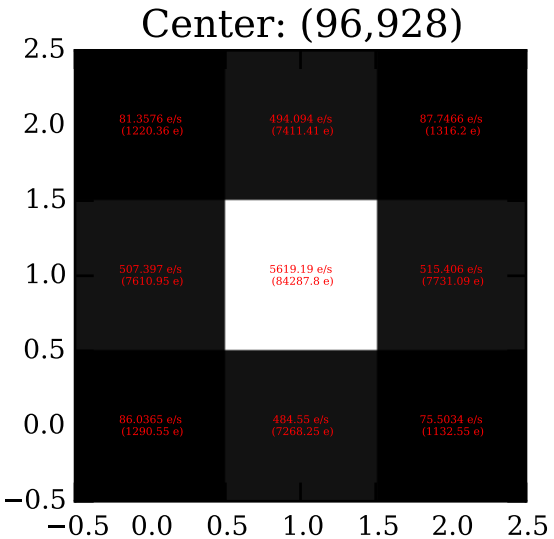

5693.71 electrons.
Position: (96,929)
Fractional NL
(after NL correction)
0.8
0.6
0.4
0.2
0.0
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

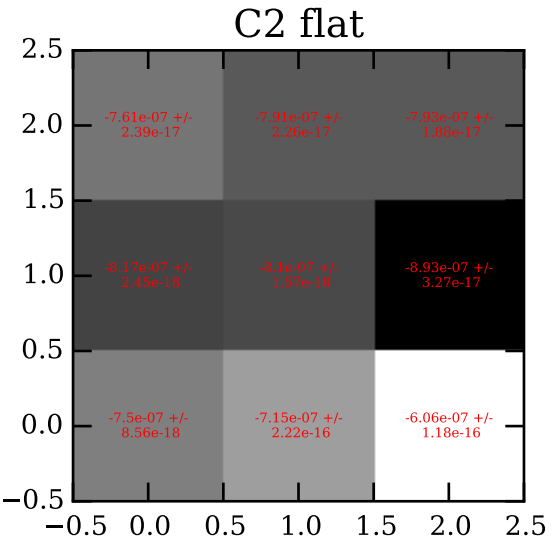

5899.15 electrons.
Position: (95,928)
Fractional NL
(after NL correction)
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

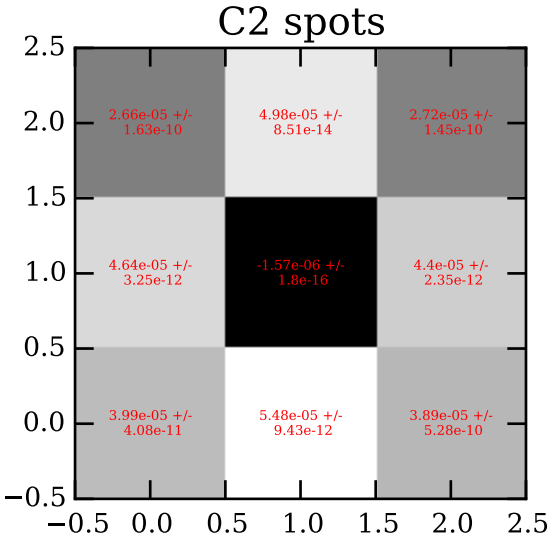

91822.6 electrons.
Position: (96,928)
Fractional NL
(after NL correction)
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

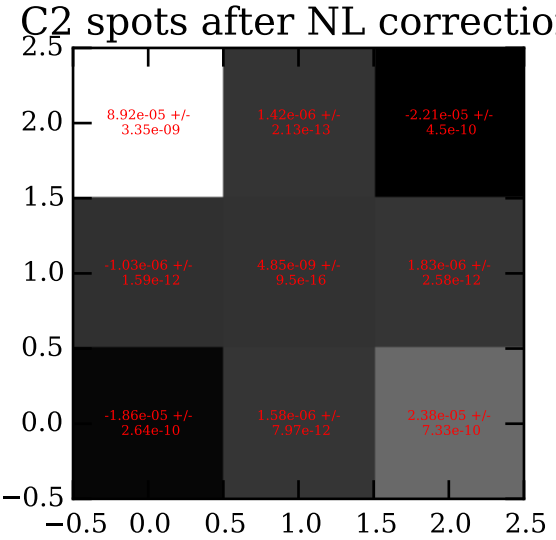

6031.69 electrons.
Position: (97,928)
Fractional NL
(after NL correction)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

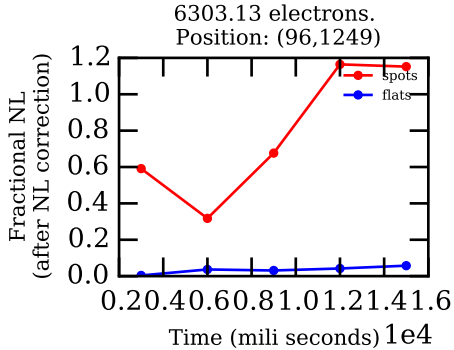

5511.5 electrons.
Position: (96,927)
Fractional NL
(after NL correction)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

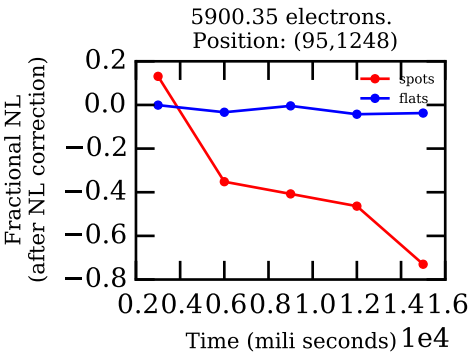

Center: (96,928)
81.3576 e/s
(1220.36 e)
494.094 e/s
(7411.41 e)
87.7466 e/s
(1316.2 e)
507.397 e/s
(7610.95 e)
5619.19 e/s
(84287.8 e)
515.406 e/s
(7731.09 e)
86.0365 e/s
(1290.55 e)
484.55 e/s
(7268.25 e)
75.5034 e/s
(1132.55 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

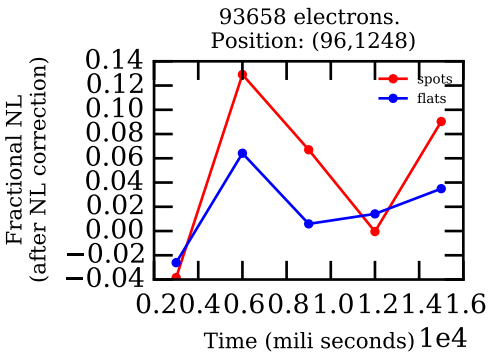

C2 flat
-7.61e-07 +/-
2.39e-17
-7.91e-07 +/-
2.26e-17
-7.93e-07 +/-
1.88e-17
-8.17e-07 +/-
2.45e-18
-8.1e-07 +/-
1.57e-18
-8.93e-07 +/-
3.27e-17
-7.5e-07 +/-
8.56e-18
-7.15e-07 +/-
2.22e-16
-6.06e-07 +/-
1.18e-16
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

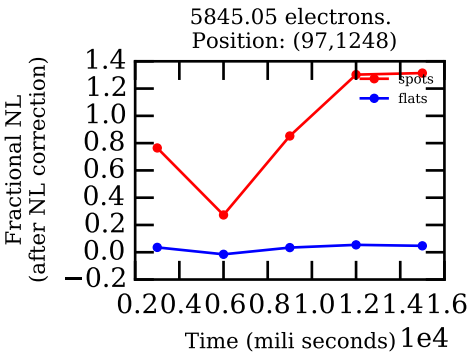

C2 spots
2.66e-05 +/-
1.63e-10
4.98e-05 +/-
8.51e-14
2.72e-05 +/-
1.45e-10
4.64e-05 +/-
3.25e-12
-1.57e-06 +/-
1.8e-16
4.4e-05 +/-
2.35e-12
3.99e-05 +/-
4.08e-11
5.48e-05 +/-
9.43e-12
3.89e-05 +/-
5.28e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

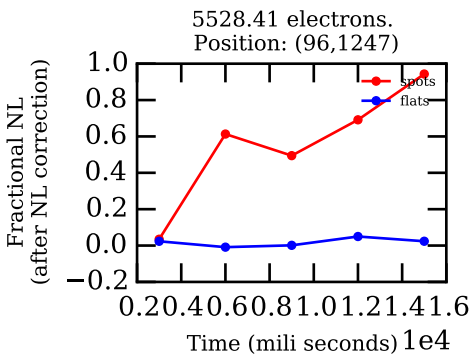

C2 spots after NL correction
8.92e-05 +/-
3.35e-09
1.42e-06 +/-
2.13e-13
-2.21e-05 +/-
4.5e-10
-1.03e-06 +/-
1.59e-12
4.85e-09 +/-
9.5e-16
1.83e-06 +/-
2.58e-12
-1.86e-05 +/-
2.64e-10
1.58e-06 +/-
7.97e-12
2.36e-05 +/-
7.33e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

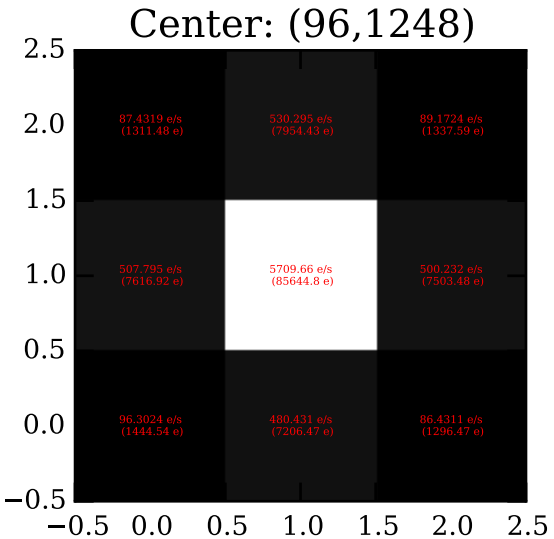

6303.13 electrons.
Position: (96,1249)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

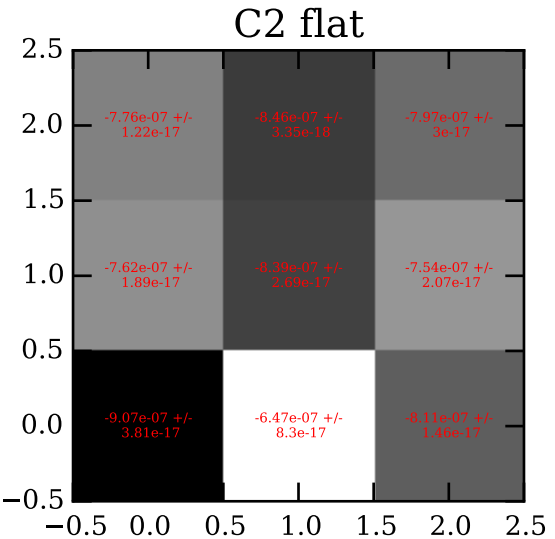

5900.35 electrons.
Position: (95,1248)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

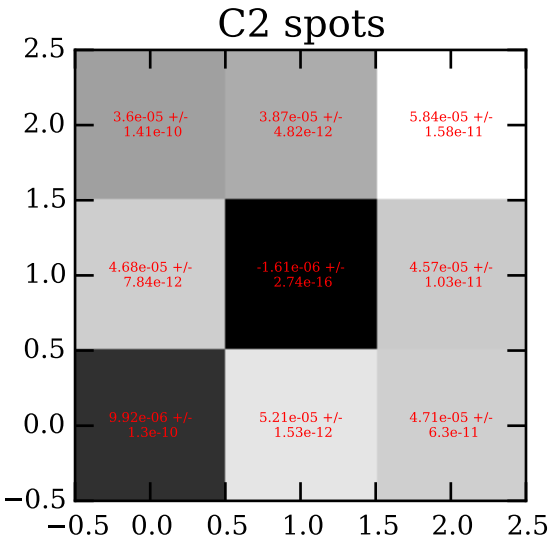

93658 electrons.
Position: (96,1248)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

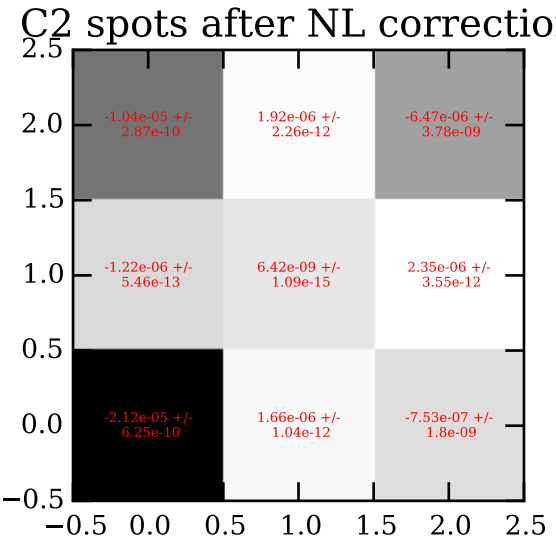

5845.05 electrons.
Position: (97,1248)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

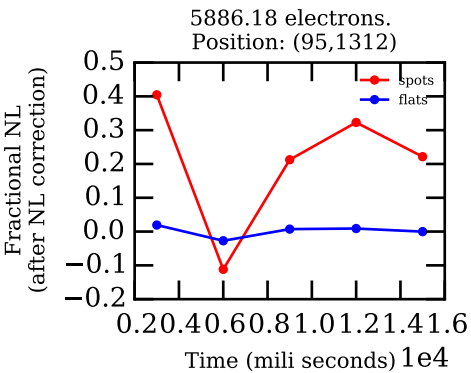

5528.41 electrons.
Position: (96,1247)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

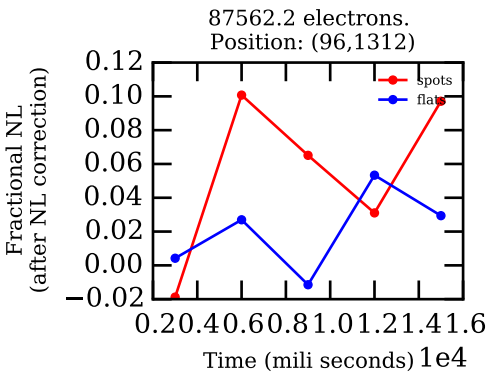

Center: (96,1248)
87.4319 e/s
(1311.48 e)
530.285 e/s
(7954.43 e)
89.1724 e/s
(1337.59 e)
507.795 e/s
(7616.92 e)
5709.66 e/s
(85644.8 e)
500.232 e/s
(7503.48 e)
96.3024 e/s
(1444.54 e)
480.431 e/s
(7206.47 e)
86.4311 e/s
(1296.47 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

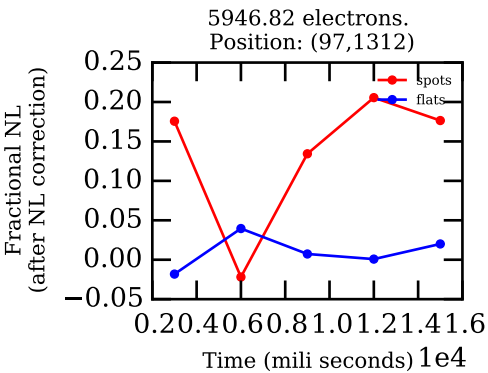

C2 flat
-7.76e-07 +/-
1.22e-17
-8.46e-07 +/-
3.35e-18
-7.97e-07 +/-
3e-17
-7.62e-07 +/-
1.89e-17
-8.39e-07 +/-
2.69e-17
-7.54e-07 +/-
2.07e-17
-9.07e-07 +/-
3.81e-17
-6.47e-07 +/-
8.3e-17
-8.11e-07 +/-
1.46e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

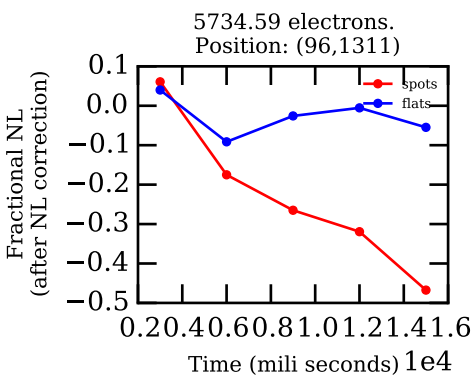

C2 spots
3.6e-05 +/-
1.41e-10
3.87e-05 +/-
4.82e-12
5.84e-05 +/-
1.58e-11
4.68e-05 +/-
7.84e-12
-1.61e-06 +/-
2.74e-16
4.57e-05 +/-
1.03e-11
9.92e-06 +/-
1.3e-10
5.21e-05 +/-
1.53e-12
4.71e-05 +/-
6.3e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

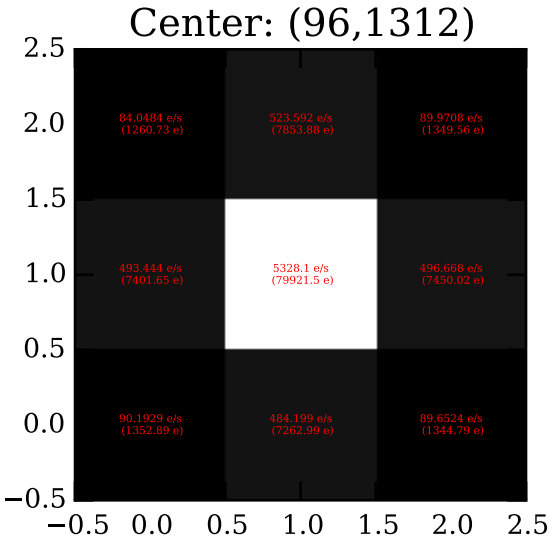

C2 spots after NL correction
-1.04e-05 +/-
2.87e-10
1.92e-06 +/-
2.26e-12
-6.47e-06 +/-
3.78e-09
-1.22e-06 +/-
5.46e-13
6.42e-09 +/-
1.09e-15
2.35e-06 +/-
3.55e-12
-2.12e-05 +/-
6.25e-10
1.66e-06 +/-
1.04e-12
-7.53e-07 +/-
1.8e-09
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

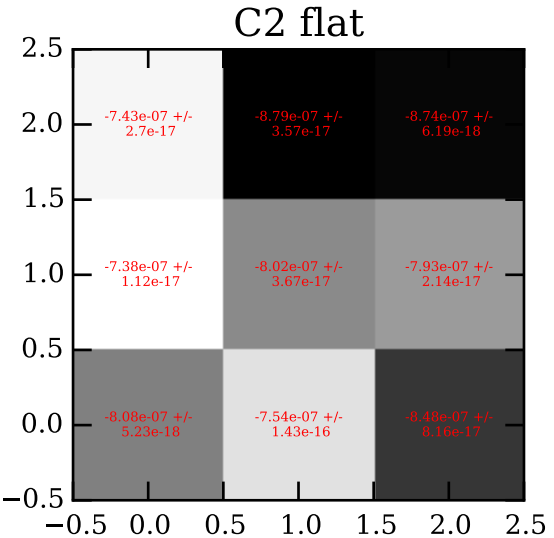

5886.18 electrons.
Position: (95,1312)
Fractional NL
(after NL correction)
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

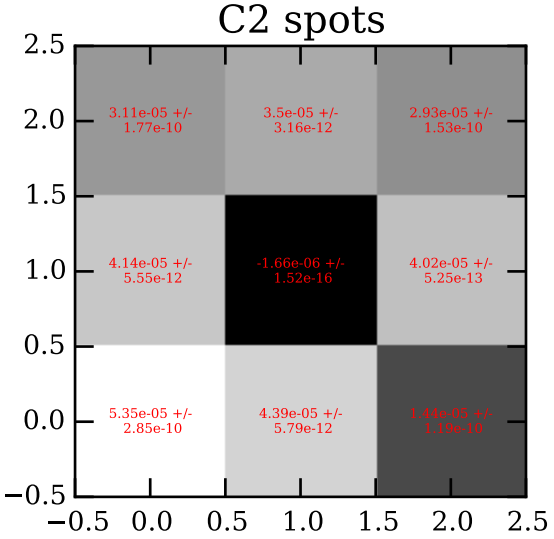

87562.2 electrons.
Position: (96,1312)
Fractional NL
(after NL correction)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
−0.02
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

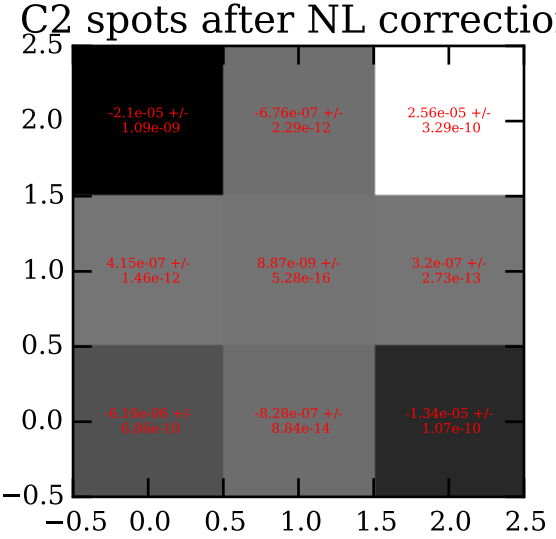

5946.82 electrons.
Position: (97,1312)
Fractional NL
(after NL correction)
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

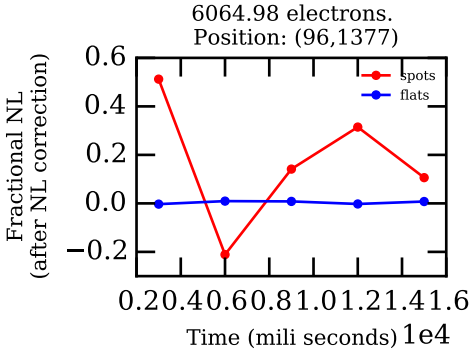

5734.59 electrons.
Position: (96,1311)
Fractional NL
(after NL correction)
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

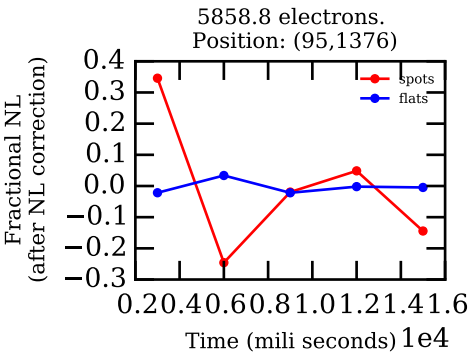

Center: (96,1312)
84.0484 e/s
(1260.73 e)
523.592 e/s
(7853.88 e)
89.9708 e/s
(1349.56 e)
493.444 e/s
(7401.65 e)
5328.1 e/s
(79921.5 e)
496.668 e/s
(7450.02 e)
90.1929 e/s
(1352.89 e)
484.199 e/s
(7262.99 e)
89.6524 e/s
(1344.79 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

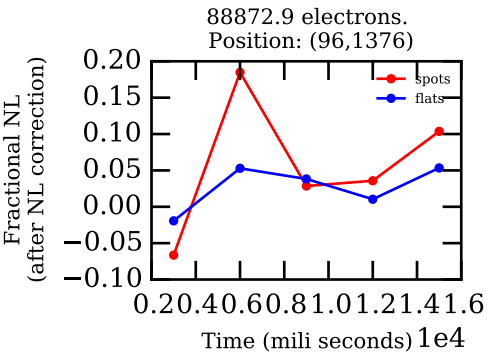

C2 flat
-7.43e-07 +/-
2.7e-17
-8.79e-07 +/-
3.57e-17
-8.74e-07 +/-
6.19e-18
-7.38e-07 +/-
1.12e-17
-8.02e-07 +/-
3.67e-17
-7.93e-07 +/-
2.14e-17
-8.08e-07 +/-
5.23e-18
-7.54e-07 +/-
1.43e-16
-8.48e-07 +/-
8.16e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

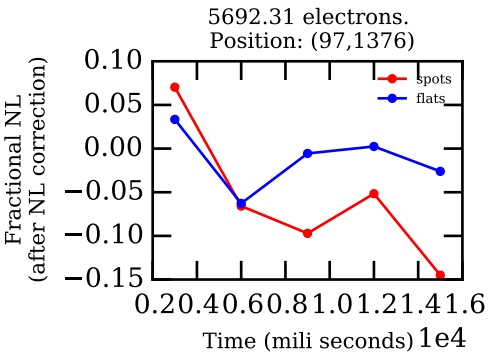

C2 spots
3.11e-05 +/-
1.77e-10
3.5e-05 +/-
3.16e-12
2.93e-05 +/-
1.53e-10
4.14e-05 +/-
5.55e-12
-1.66e-06 +/-
1.52e-16
4.02e-05 +/-
5.25e-13
5.35e-05 +/-
2.85e-10
4.39e-05 +/-
5.79e-12
1.44e-05 +/-
1.19e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

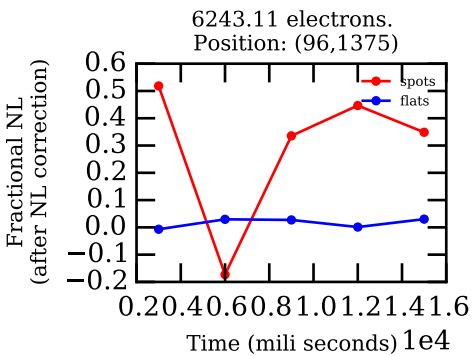

C2 spots after NL correction
-2.1e-05 +/-
1.09e-09
-6.76e-07 +/-
2.29e-12
2.56e-05 +/-
3.29e-10
4.15e-07 +/-
1.46e-12
8.87e-09 +/-
5.28e-16
3.2e-07 +/-
2.73e-13
-8.28e-07 +/-
8.84e-14
-1.34e-05 +/-
1.07e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

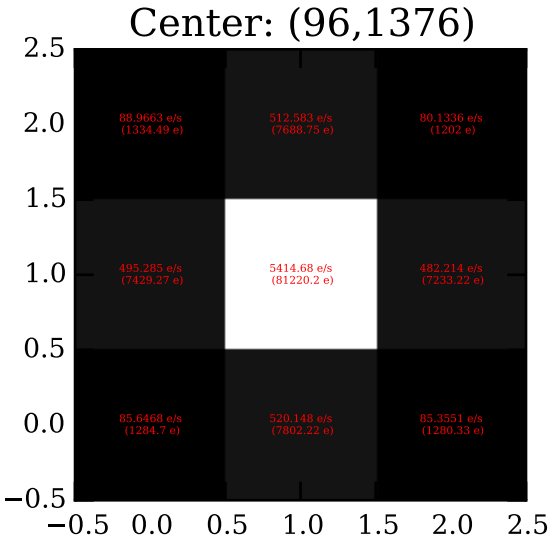

6064.98 electrons.
Position: (96,1377)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

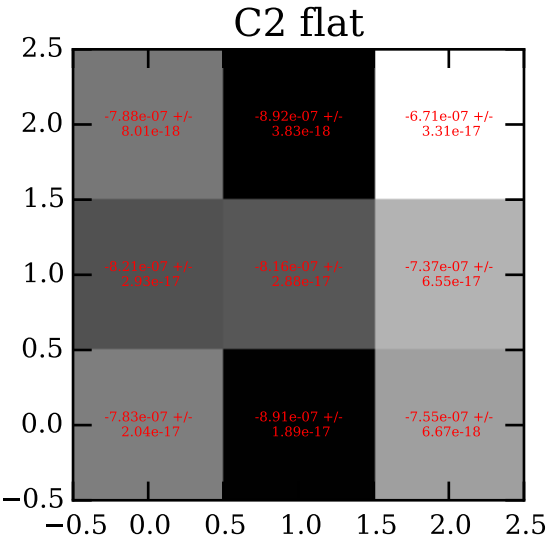

5858.8 electrons.
Position: (95,1376)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

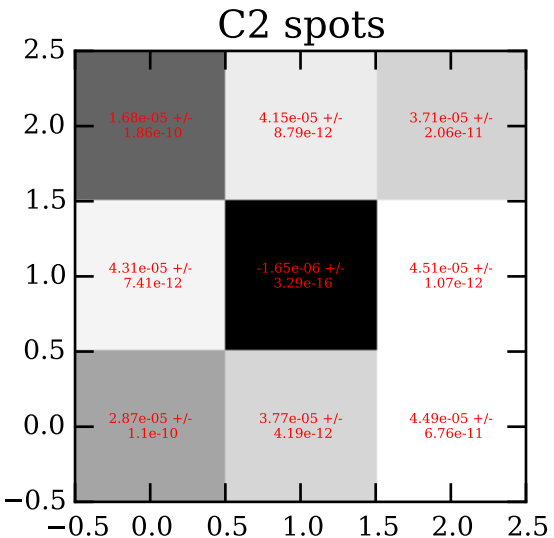

88872.9 electrons.
Position: (96,1376)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

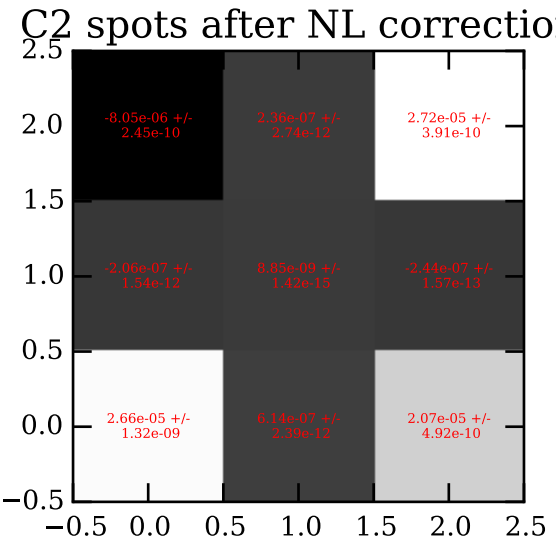

5692.31 electrons.
Position: (97,1376)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

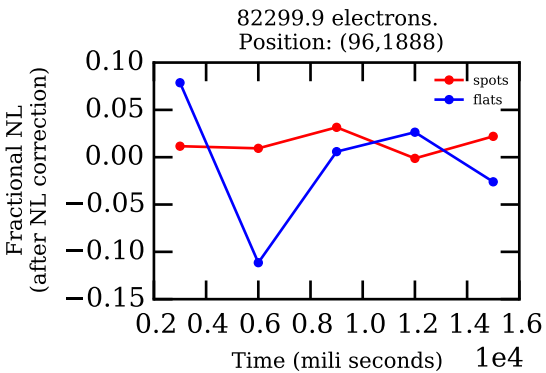

6243.11 electrons.
Position: (96,1375)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

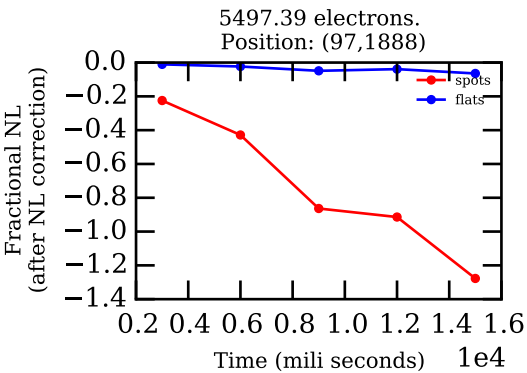

Center: (96,1376)
88.9663 e/s
(1334.49 e)
512.583 e/s
(7688.75 e)
80.1336 e/s
(1202 e)
495.285 e/s
(7429.27 e)
5414.68 e/s
(81220.2 e)
482.214 e/s
(7233.22 e)
85.6468 e/s
(1284.7 e)
520.148 e/s
(7802.22 e)
85.3551 e/s
(1280.33 e)

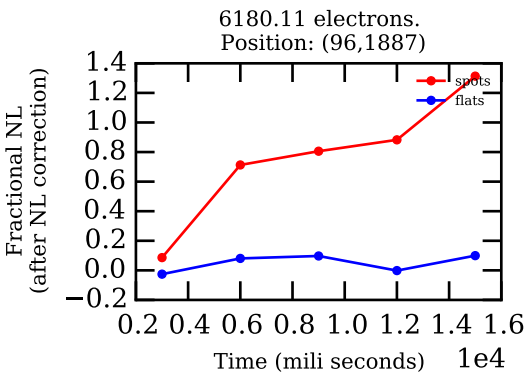

C2 flat
-7.88e-07 +/-
8.01e-18
-8.92e-07 +/-
3.83e-18
-6.71e-07 +/-
3.31e-17
-8.21e-07 +/-
2.93e-17
-8.18e-07 +/-
2.88e-17
-7.37e-07 +/-
6.55e-17
-7.83e-07 +/-
2.04e-17
-8.91e-07 +/-
1.89e-17
-7.55e-07 +/-
6.67e-18

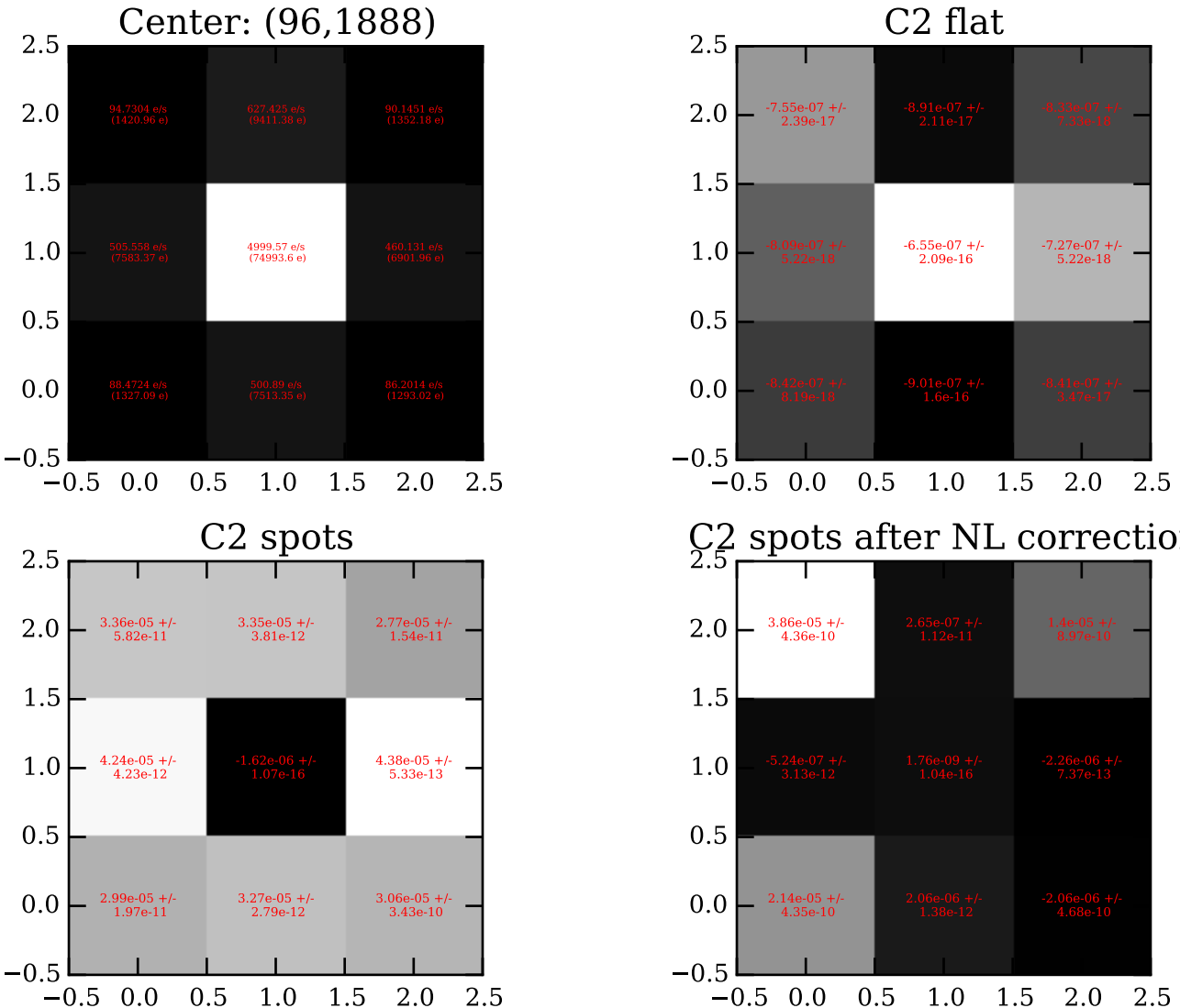

C2 spots
1.68e-05 +/-
1.86e-10
4.15e-05 +/-
8.79e-12
3.71e-05 +/-
2.06e-11
4.31e-05 +/-
7.41e-12
-1.65e-06 +/-
3.29e-16
4.51e-05 +/-
1.07e-12
2.87e-05 +/-
1.1e-10
3.77e-05 +/-
4.19e-12
4.49e-05 +/-
6.76e-11

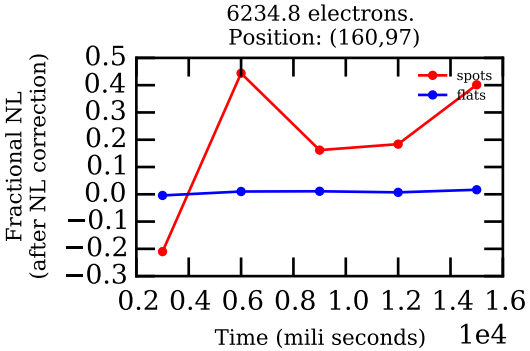

C2 spots after NL correction
-8.05e-06 +/-
2.45e-10
2.36e-07 +/-
2.74e-12
2.72e-05 +/-
3.91e-10
-2.06e-07 +/-
1.54e-12
8.85e-09 +/-
1.42e-15
-2.44e-07 +/-
1.57e-13
2.66e-05 +/-
1.32e-09
6.14e-07 +/-
2.39e-12
2.07e-05 +/-
4.92e-10

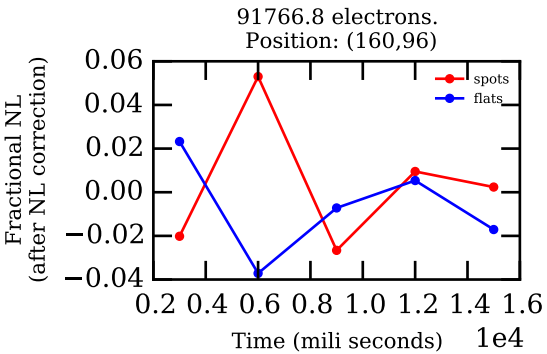

82299.9 electrons.
Position: (96,1888)
Fractional NL
(after NL correction)
0.10
0.05
0.00
−0.05
−0.10
−0.15
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

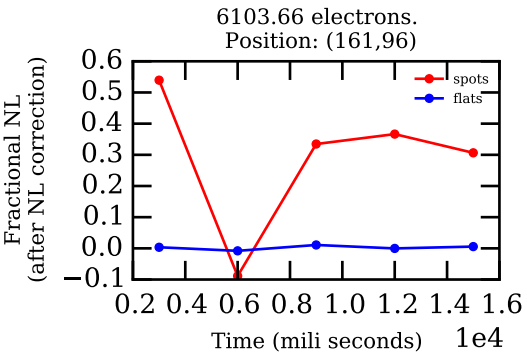

5497.39 electrons.
Position: (97,1888)
Fractional NL
(after NL correction)
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
−1.4
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

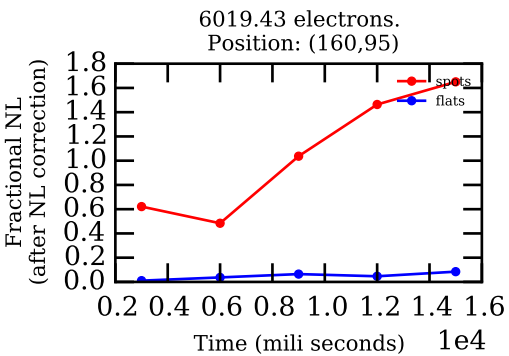

6180.11 electrons.
Position: (96,1887)
Fractional NL
(after NL correction)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

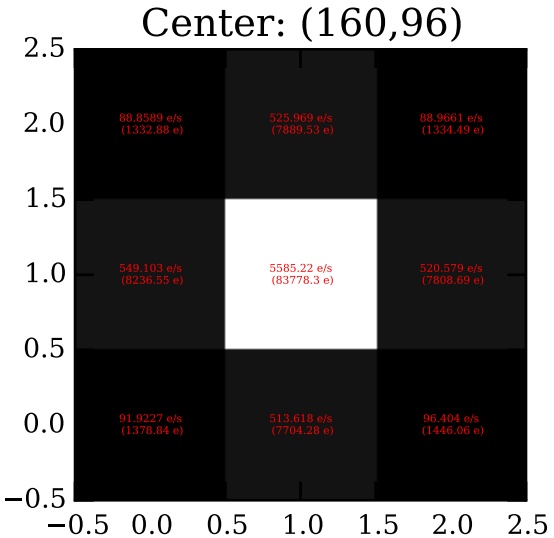

Center: (96,1888)
94.7304 e/s (1420.96 e)
627.425 e/s (9411.38 e)
90.1451 e/s (1352.18 e)
505.558 e/s (7583.37 e)
4999.57 e/s (74993.6 e)
460.131 e/s (6901.96 e)
88.4724 e/s (1327.09 e)
500.89 e/s (7513.35 e)
86.2014 e/s (1293.02 e)
C2 flat
-7.55e-07 +/- 2.39e-17
-8.91e-07 +/- 2.11e-17
-8.33e-07 +/- 7.33e-18
-8.09e-07 +/- 5.22e-18
-6.55e-07 +/- 2.09e-16
-7.27e-07 +/- 5.22e-18
-8.42e-07 +/- 8.19e-18
-9.01e-07 +/- 1.6e-16
-8.41e-07 +/- 3.47e-17
C2 spots
3.36e-05 +/- 5.82e-11
3.35e-05 +/- 3.81e-12
2.77e-05 +/- 1.54e-11
4.24e-05 +/- 4.23e-12
-1.62e-06 +/- 1.07e-16
4.38e-05 +/- 5.33e-13
2.99e-05 +/- 1.97e-11
3.27e-05 +/- 2.79e-12
3.06e-05 +/- 3.43e-10
C2 spots after NL correction
3.86e-05 +/- 4.36e-10
2.65e-07 +/- 1.12e-11
1.4e-05 +/- 8.97e-10
-5.24e-07 +/- 3.13e-12
1.76e-09 +/- 1.04e-16
-2.26e-06 +/- 7.37e-13
2.14e-05 +/- 4.35e-10
2.06e-06 +/- 1.38e-12
-2.06e-06 +/- 4.68e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

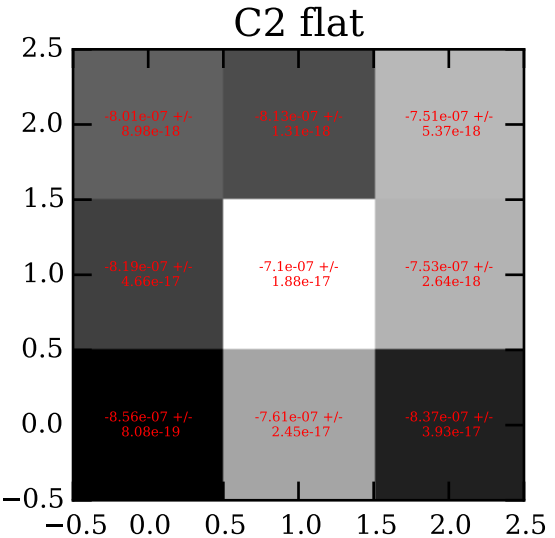

6234.8 electrons.
Position: (160,97)
Fractional NL
(after NL correction)
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

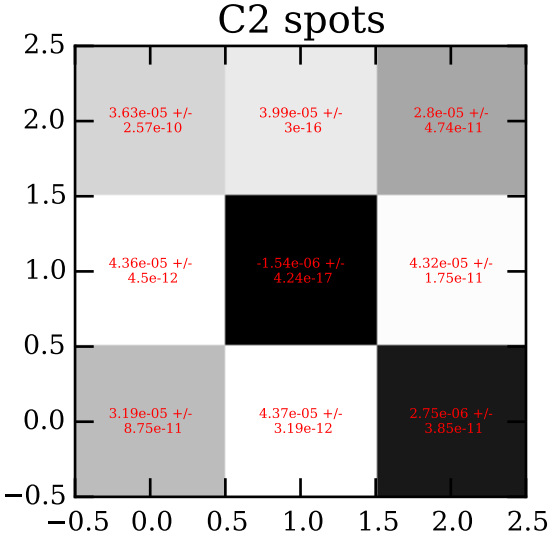

91766.8 electrons.
Position: (160,96)
Fractional NL
(after NL correction)
0.06
0.04
0.02
0.00
−0.02
−0.04
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

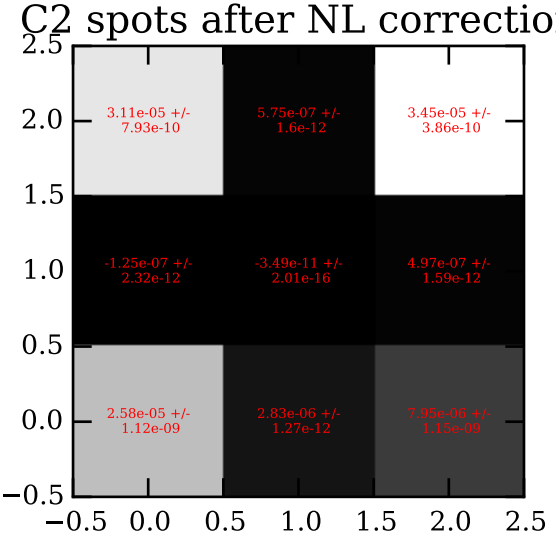

6103.66 electrons.
Position: (161,96)
Fractional NL
(after NL correction)
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

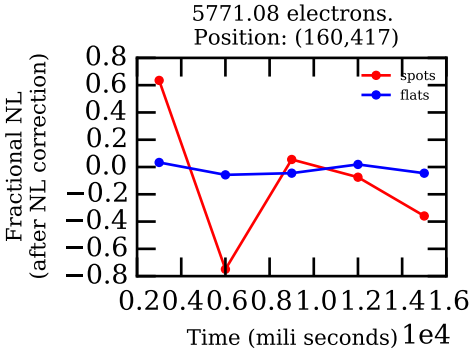

6019.43 electrons.
Position: (160,95)
Fractional NL
(after NL correction)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

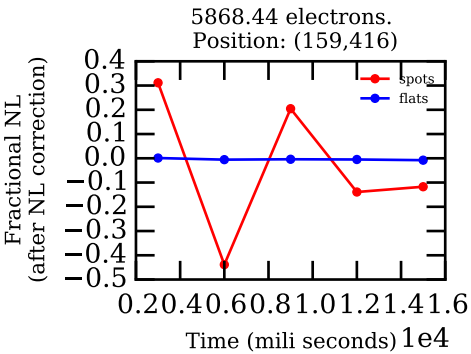

Center: (160,96)
88.8589 e/s
(1332.88 e)
525.969 e/s
(7889.53 e)
88.9661 e/s
(1334.49 e)
549.103 e/s
(8236.55 e)
5585.22 e/s
(83778.3 e)
520.579 e/s
(7808.69 e)
91.9227 e/s
(1378.84 e)
513.618 e/s
(7704.28 e)
96.404 e/s
(1446.06 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

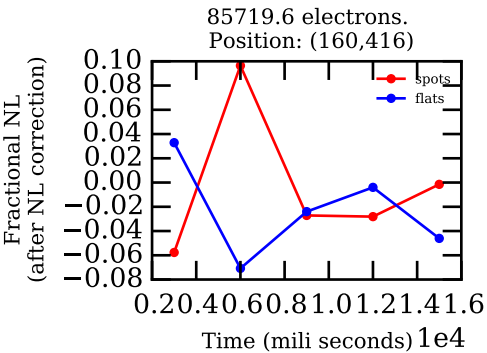

C2 flat
-8.01e-07 +/-
8.98e-18
-8.13e-07 +/-
1.31e-16
-7.51e-07 +/-
5.37e-18
-8.19e-07 +/-
4.66e-17
-7.1e-07 +/-
1.88e-17
-7.53e-07 +/-
2.64e-18
-8.56e-07 +/-
8.08e-19
-7.61e-07 +/-
2.45e-17
-8.37e-07 +/-
3.93e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

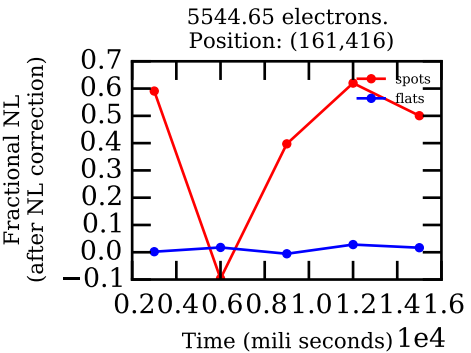

C2 spots
3.63e-05 +/-
2.57e-10
3.99e-05 +/-
3e-16
2.8e-05 +/-
4.74e-11
4.36e-05 +/-
4.5e-12
-1.54e-06 +/-
4.24e-17
4.32e-05 +/-
1.75e-11
3.19e-05 +/-
8.75e-11
4.37e-05 +/-
3.19e-12
2.75e-06 +/-
3.85e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

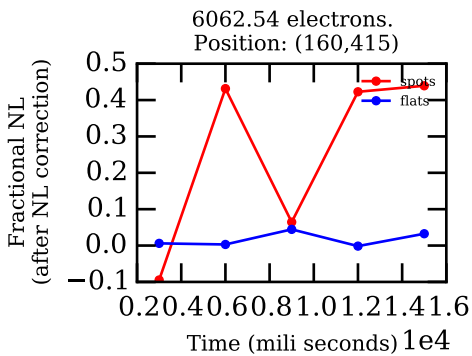

C2 spots after NL correction
3.11e-05 +/-
7.93e-10
5.75e-07 +/-
1.6e-12
3.45e-05 +/-
3.86e-10
-1.25e-07 +/-
2.32e-12
-3.49e-11 +/-
2.01e-16
4.97e-07 +/-
1.59e-12
2.58e-05 +/-
1.12e-09
2.83e-06 +/-
1.27e-12
7.95e-06 +/-
1.15e-09
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

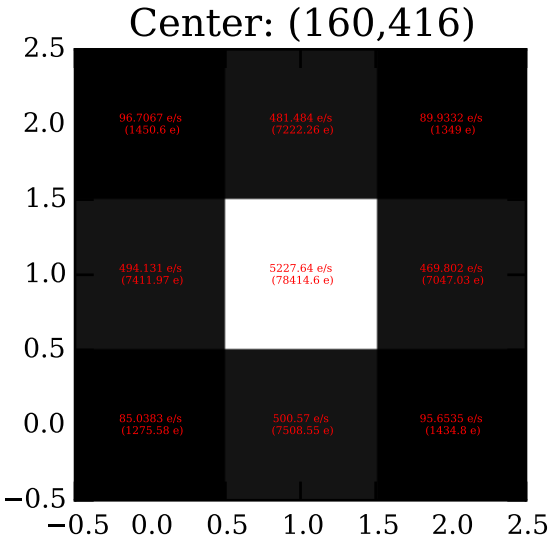

5771.08 electrons.
Position: (160,417)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

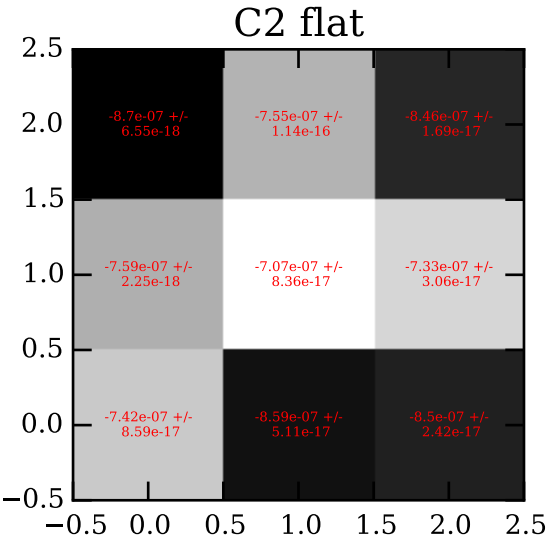

5868.44 electrons.
Position: (159,416)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

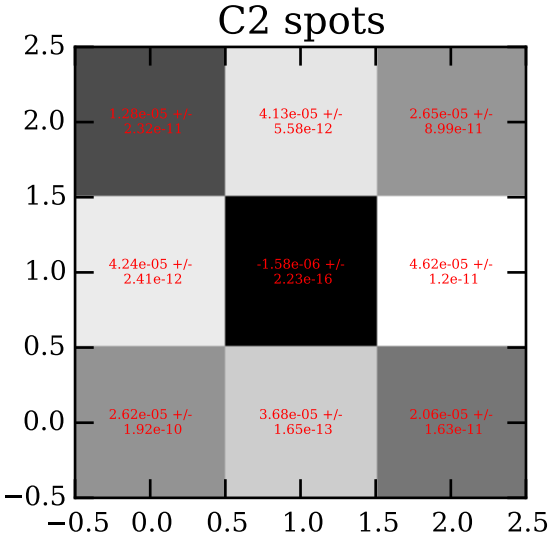

85719.6 electrons.
Position: (160,416)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

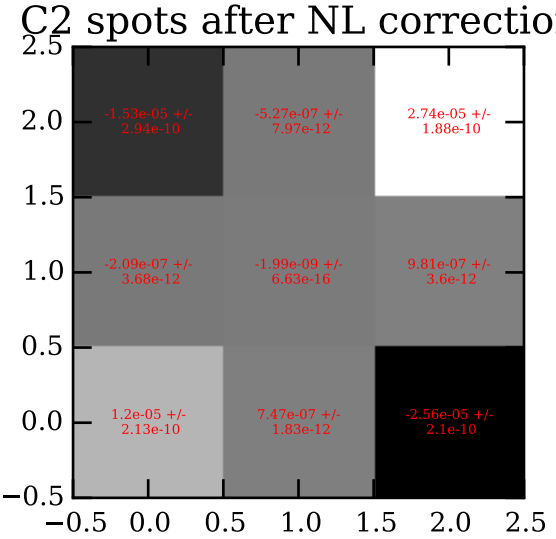

5544.65 electrons.
Position: (161,416)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

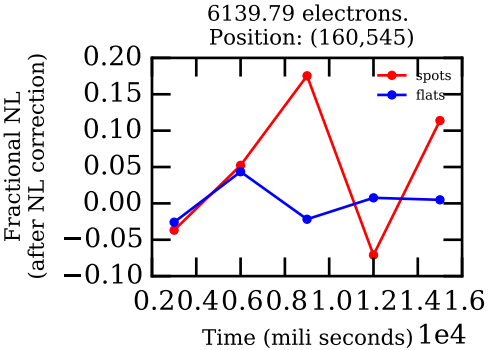

6062.54 electrons.
Position: (160,415)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

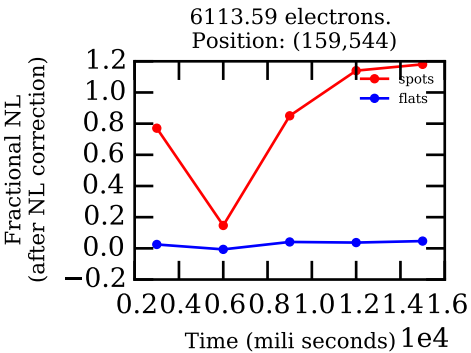

Center: (160,416)
96.7067 e/s
(1450.6 e)
481.484 e/s
(7222.26 e)
89.9332 e/s
(1349 e)
494.131 e/s
(7411.97 e)
5227.64 e/s
(78414.6 e)
469.802 e/s
(7047.03 e)
85.0383 e/s
(1275.58 e)
500.57 e/s
(7508.55 e)
95.6535 e/s
(1434.8 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

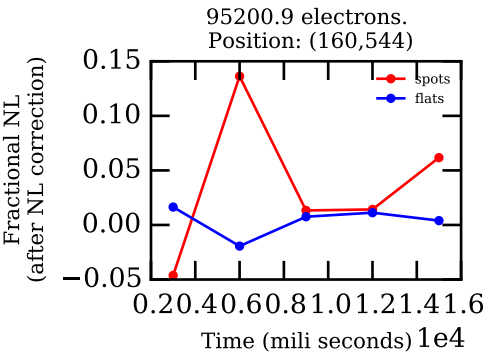

C2 flat
-8.7e-07 +/-
6.55e-18
-7.55e-07 +/-
1.14e-16
-8.46e-07 +/-
1.69e-17
-7.59e-07 +/-
2.25e-18
-7.07e-07 +/-
8.36e-17
-7.33e-07 +/-
3.06e-17
-7.42e-07 +/-
8.59e-17
-8.59e-07 +/-
5.11e-17
-8.5e-07 +/-
2.42e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

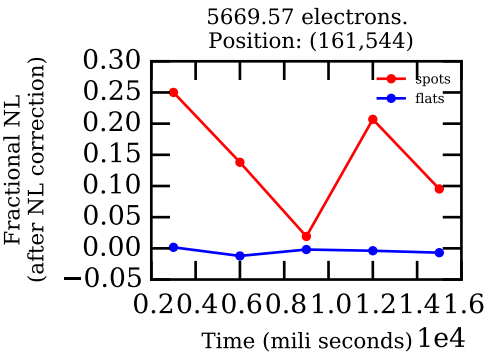

C2 spots
1.28e-05 +/-
2.32e-11
4.13e-05 +/-
5.58e-12
2.65e-05 +/-
8.99e-11
4.24e-05 +/-
2.41e-12
-1.58e-06 +/-
2.23e-16
4.62e-05 +/-
1.2e-11
2.62e-05 +/-
1.92e-10
3.68e-05 +/-
1.65e-13
2.06e-05 +/-
1.63e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

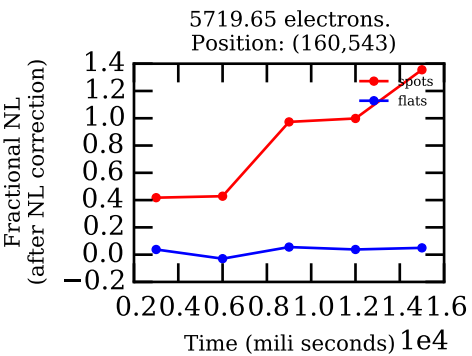

C2 spots after NL correction
-1.53e-05 +/-
2.94e-10
-5.27e-07 +/-
7.97e-12
2.74e-05 +/-
1.88e-10
-2.09e-07 +/-
3.68e-12
-1.99e-09 +/-
6.63e-16
9.81e-07 +/-
3.6e-12
1.2e-05 +/-
2.13e-10
7.47e-07 +/-
1.83e-12
-2.56e-05 +/-
2.1e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

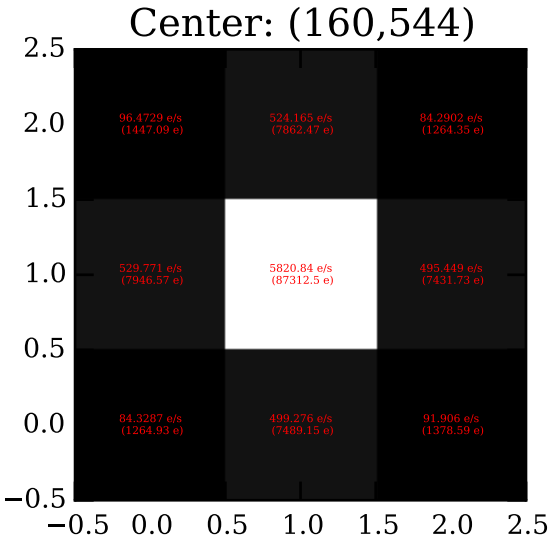

6139.79 electrons.
Position: (160,545)
Fractional NL
(after NL correction)
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

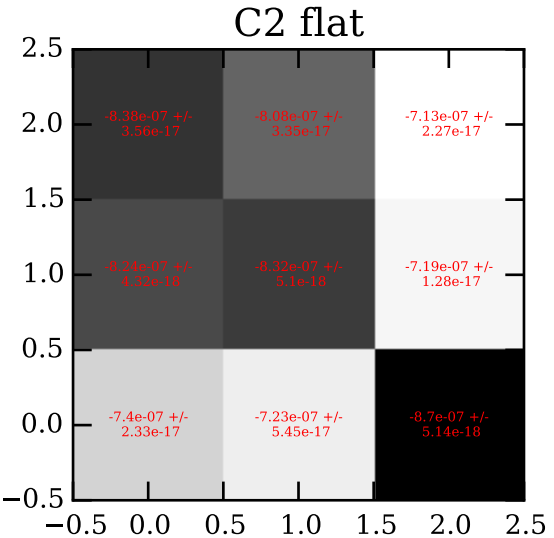

6113.59 electrons.
Position: (159,544)
Fractional NL
(after NL correction)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

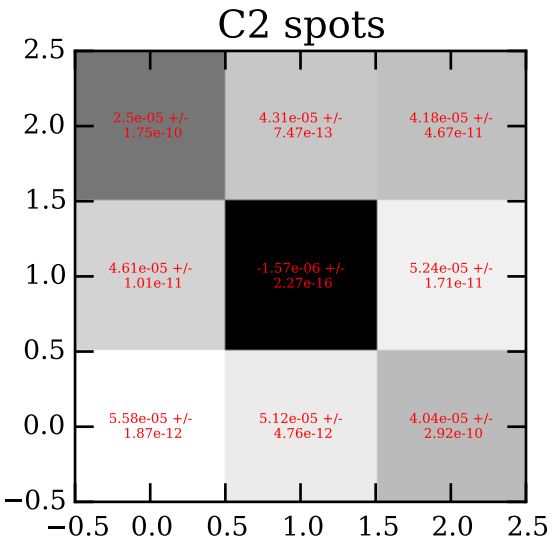

95200.9 electrons.
Position: (160,544)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

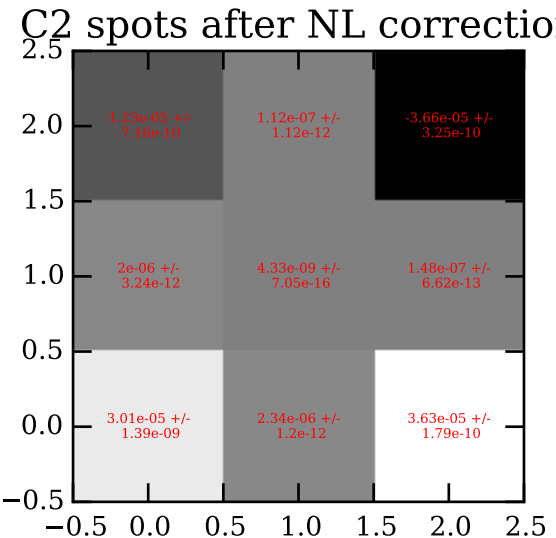

5669.57 electrons.
Position: (161,544)
Fractional NL
(after NL correction)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

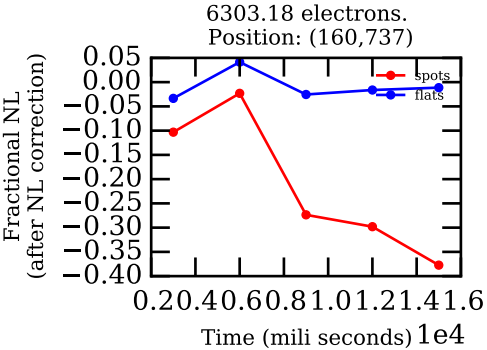

5719.65 electrons.
Position: (160,543)
Fractional NL
(after NL correction)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

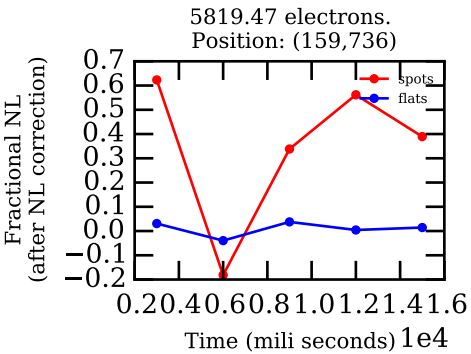

Center: (160,544)
96.4729 e/s
(1447.09 e)
524.165 e/s
(7862.47 e)
84.2902 e/s
(1264.35 e)
529.771 e/s
(7946.57 e)
5820.84 e/s
(87312.5 e)
495.449 e/s
(7431.73 e)
84.3287 e/s
(1264.93 e)
499.276 e/s
(7489.15 e)
91.906 e/s
(1378.59 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

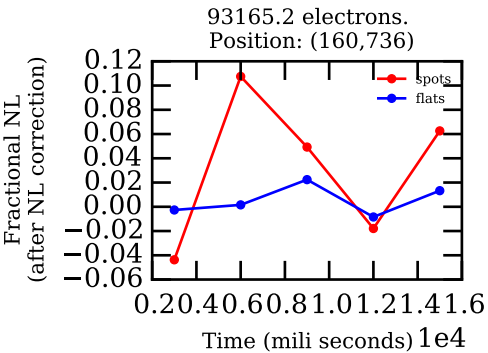

C2 flat
-8.38e-07 +/-
3.56e-17
-8.09e-07 +/-
3.35e-17
-7.13e-07 +/-
2.27e-17
-8.24e-07 +/-
4.32e-18
-8.32e-07 +/-
5.1e-18
-7.19e-07 +/-
1.28e-17
-7.4e-07 +/-
2.33e-17
-7.23e-07 +/-
5.45e-17
-8.7e-07 +/-
5.14e-18
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

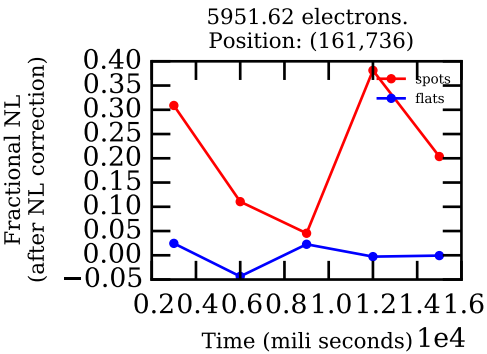

C2 spots
2.5e-05 +/-
1.75e-10
4.31e-05 +/-
7.47e-13
4.18e-05 +/-
4.67e-11
4.61e-05 +/-
1.01e-11
-1.57e-06 +/-
2.27e-16
5.24e-05 +/-
1.71e-11
5.58e-05 +/-
1.87e-12
5.12e-05 +/-
4.76e-12
4.04e-05 +/-
2.92e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

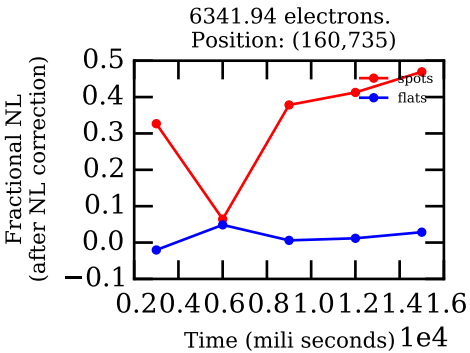

C2 spots after NL correction
-1.23e-05 +/-
7.16e-10
1.12e-07 +/-
1.12e-12
-3.66e-05 +/-
3.25e-10
2e-06 +/-
3.24e-12
4.33e-09 +/-
7.05e-16
1.48e-07 +/-
6.62e-13
3.01e-05 +/-
1.39e-09
2.34e-06 +/-
1.2e-12
3.63e-05 +/-
1.79e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

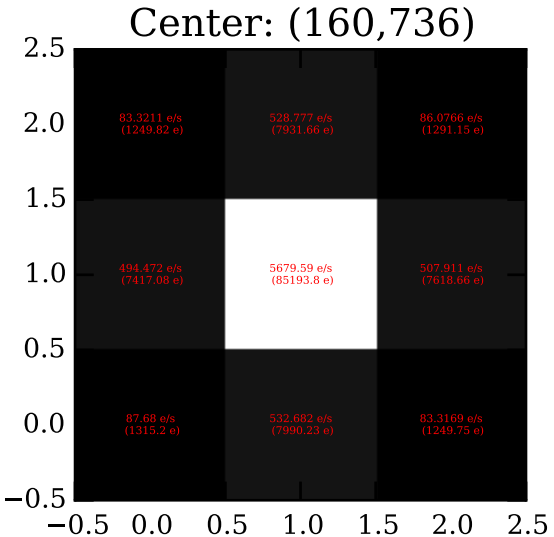

6303.18 electrons.
Position: (160,737)
Fractional NL
(after NL correction)
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

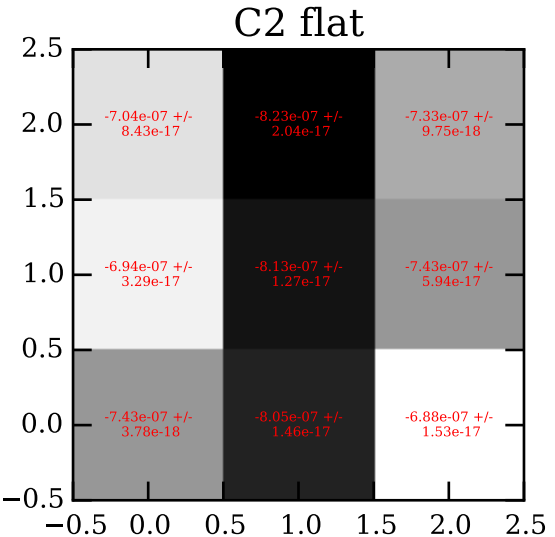

5819.47 electrons.
Position: (159,736)
Fractional NL
(after NL correction)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

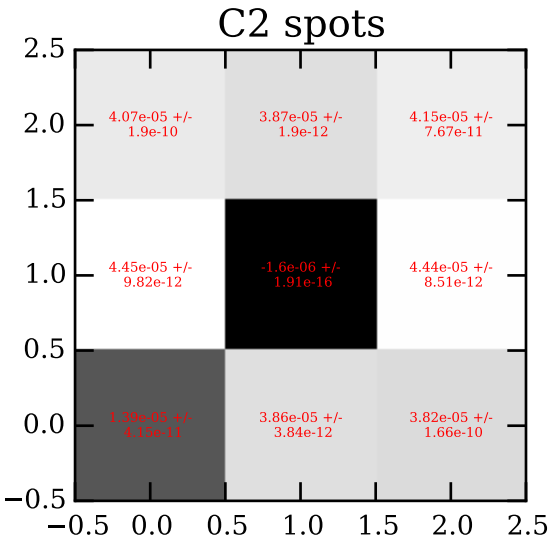

93165.2 electrons.
Position: (160,736)
Fractional NL
(after NL correction)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

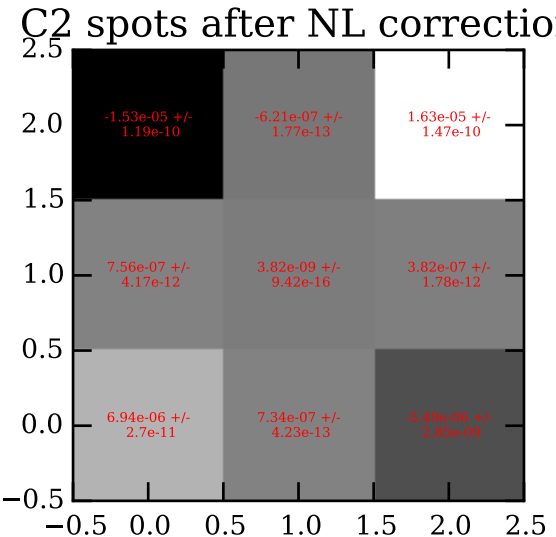

5951.62 electrons.
Position: (161,736)
Fractional NL
(after NL correction)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

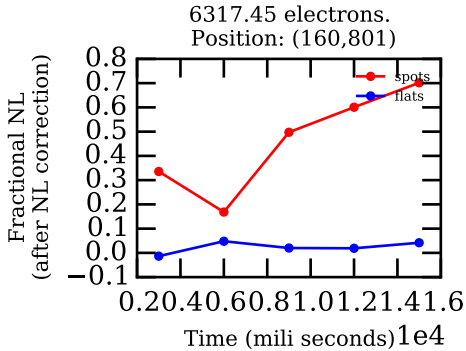

6341.94 electrons.
Position: (160,735)
Fractional NL
(after NL correction)
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

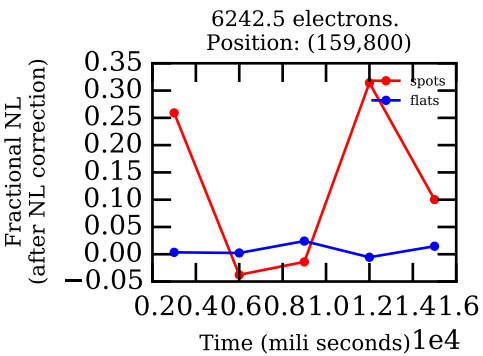

Center: (160,736)
83.3211 e/s
(1249.82 e)
528.777 e/s
(7931.66 e)
86.0766 e/s
(1291.15 e)
494.472 e/s
(7417.08 e)
5679.59 e/s
(85193.8 e)
507.911 e/s
(7618.66 e)
87.68 e/s
(1315.2 e)
532.682 e/s
(7990.23 e)
83.3169 e/s
(1249.75 e)

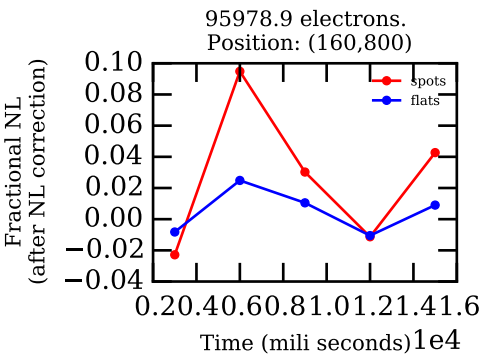

C2 flat
-7.04e-07 +/-
8.43e-17
-8.23e-07 +/-
2.04e-17
-7.33e-07 +/-
9.75e-18
-6.94e-07 +/-
3.29e-17
-8.13e-07 +/-
1.27e-17
-7.43e-07 +/-
5.94e-17
-7.43e-07 +/-
3.78e-18
-8.05e-07 +/-
1.46e-17
-6.88e-07 +/-
1.53e-17

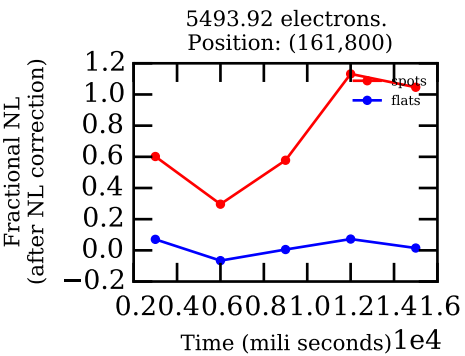

C2 spots
4.07e-05 +/-
1.9e-10
3.87e-05 +/-
1.9e-12
4.15e-05 +/-
7.67e-11
4.45e-05 +/-
9.82e-12
-1.6e-06 +/-
1.91e-16
4.44e-05 +/-
8.51e-12
3.86e-05 +/-
3.84e-12
3.82e-05 +/-
1.66e-10

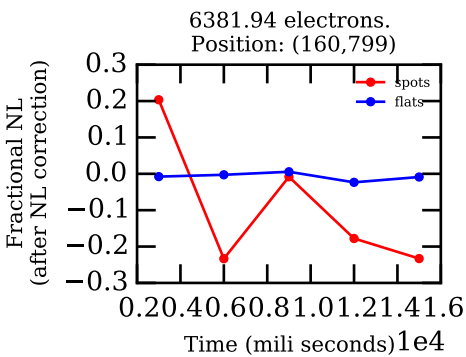

C2 spots after NL correction
-1.53e-05 +/-
1.19e-10
-6.21e-07 +/-
1.77e-13
1.63e-05 +/-
1.47e-10
7.56e-07 +/-
4.17e-12
3.82e-09 +/-
9.42e-16
3.82e-07 +/-
1.78e-12
6.94e-06 +/-
2.7e-11
7.34e-07 +/-
4.23e-13

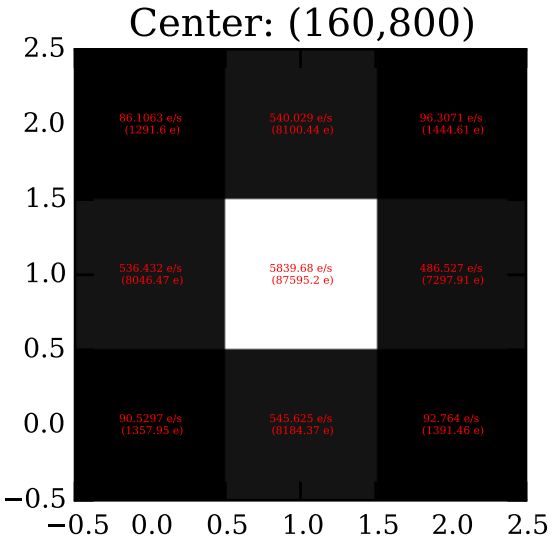

6317.45 electrons.
Position: (160,801)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

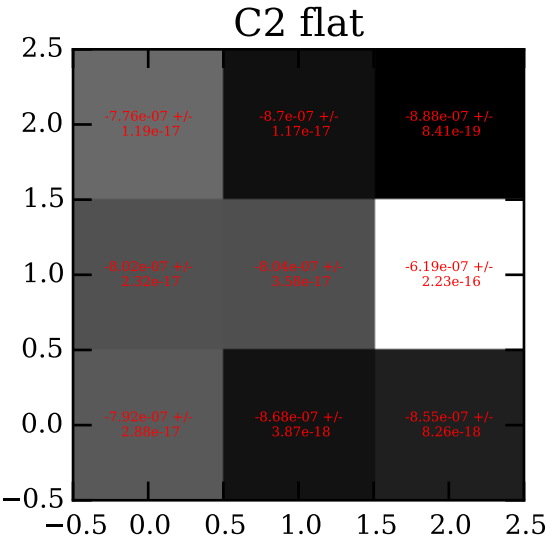

6242.5 electrons.
Position: (159,800)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

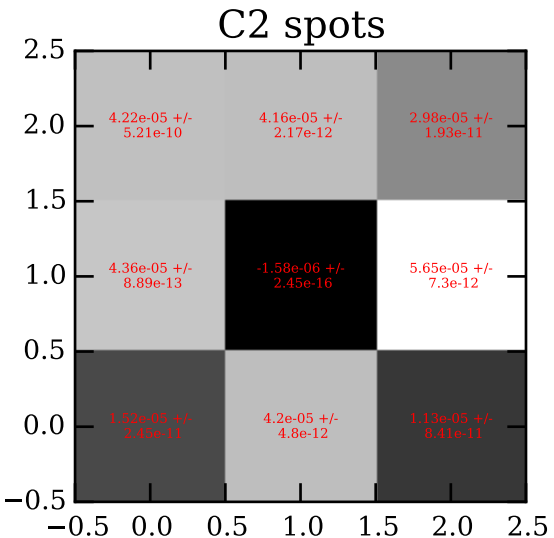

95978.9 electrons.
Position: (160,800)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

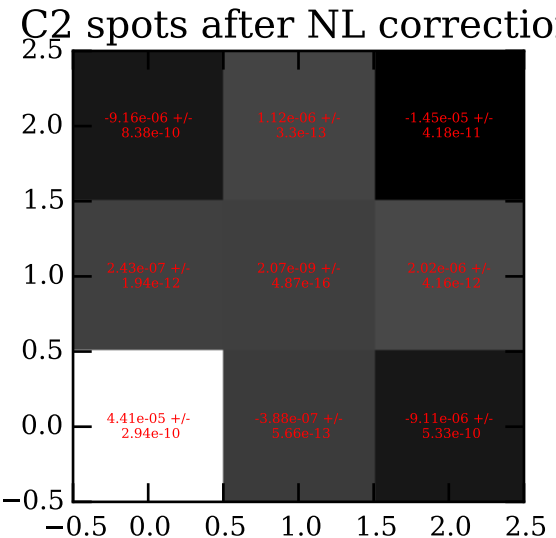

5493.92 electrons.
Position: (161,800)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

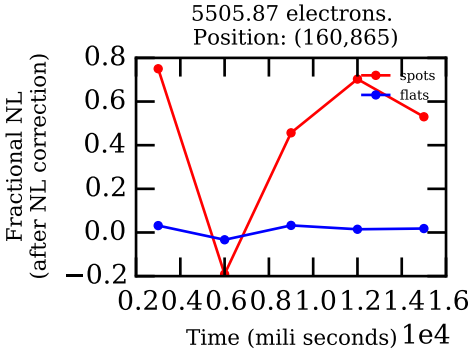

6381.94 electrons.
Position: (160,799)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

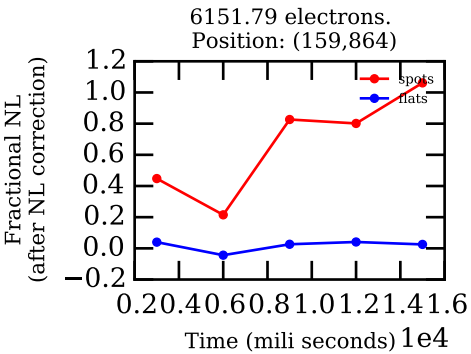

Center: (160,800)
86.1063 e/s
(1291.6 e)
540.029 e/s
(8100.44 e)
96.3071 e/s
(1444.61 e)
536.432 e/s
(8046.47 e)
5839.68 e/s
(87595.2 e)
486.527 e/s
(7297.91 e)
90.5297 e/s
(1357.95 e)
545.625 e/s
(8184.37 e)
92.764 e/s
(1391.46 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

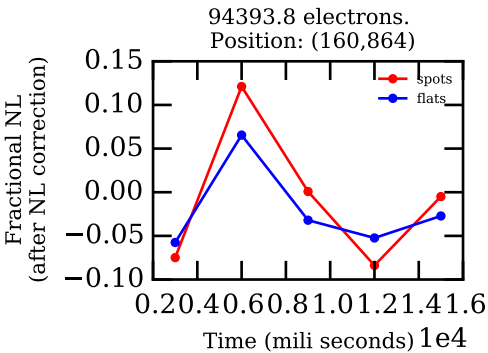

C2 flat
-7.76e-07 +/-
1.19e-17
-8.7e-07 +/-
1.17e-17
-8.88e-07 +/-
8.41e-19
-8.02e-07 +/-
2.32e-17
-8.04e-07 +/-
3.58e-17
-6.19e-07 +/-
2.23e-16
-7.95e-07 +/-
2.88e-17
-8.68e-07 +/-
3.87e-18
-8.55e-07 +/-
8.26e-18
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

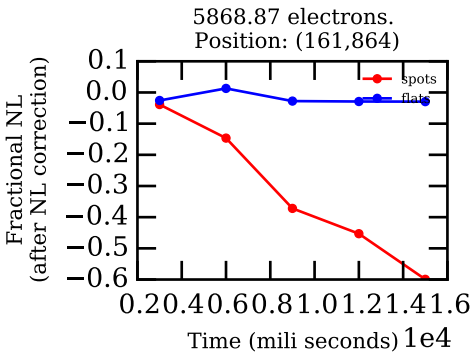

C2 spots
4.22e-05 +/-
5.21e-10
4.16e-05 +/-
2.17e-12
2.98e-05 +/-
1.93e-11
4.36e-05 +/-
8.89e-13
-1.58e-06 +/-
2.45e-16
5.65e-05 +/-
7.3e-12
1.52e-05 +/-
2.45e-11
4.2e-05 +/-
4.8e-12
1.13e-05 +/-
8.41e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

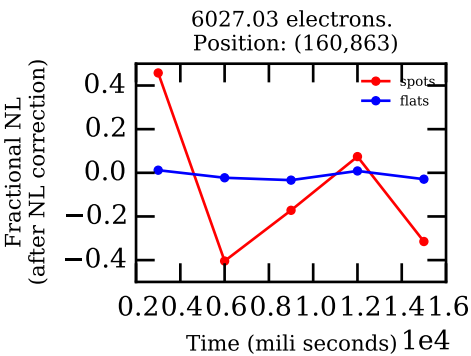

C2 spots after NL correction
-9.16e-06 +/-
8.38e-10
1.12e-06 +/-
3.3e-13
-1.45e-05 +/-
4.18e-11
2.43e-07 +/-
1.94e-12
2.07e-09 +/-
4.87e-16
2.02e-06 +/-
4.16e-12
4.41e-05 +/-
2.94e-10
-3.88e-07 +/-
5.66e-13
-9.11e-06 +/-
5.33e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

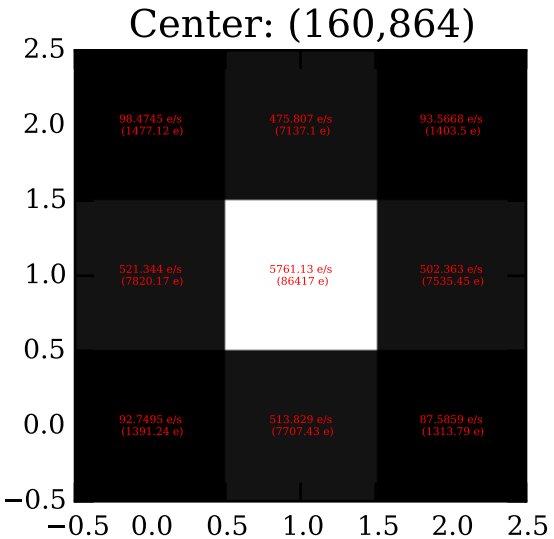

5505.87 electrons.
Position: (160,865)
Fractional NL
(after NL correction)
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

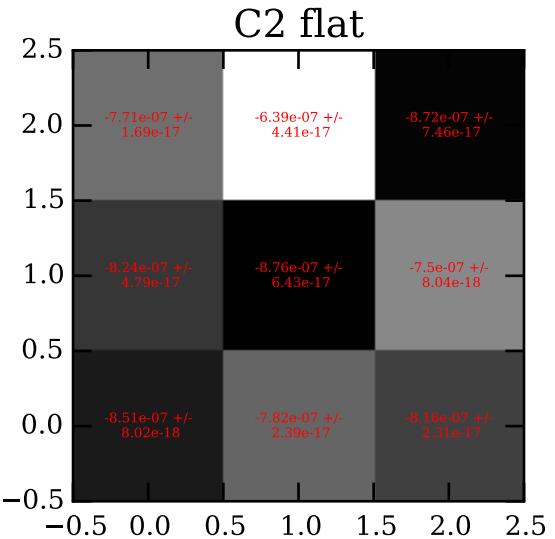

6151.79 electrons.
Position: (159,864)
Fractional NL
(after NL correction)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

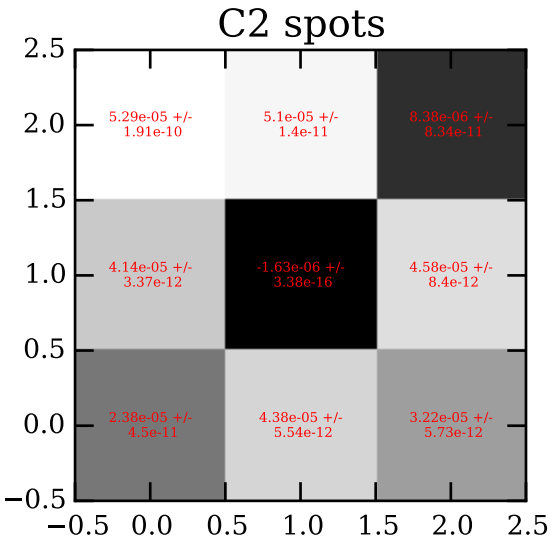

94393.8 electrons.
Position: (160,864)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
−0.10
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

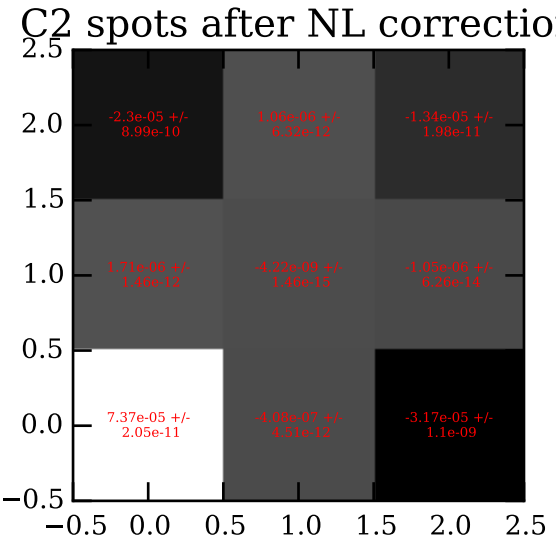

5868.87 electrons.
Position: (161,864)
Fractional NL
(after NL correction)
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

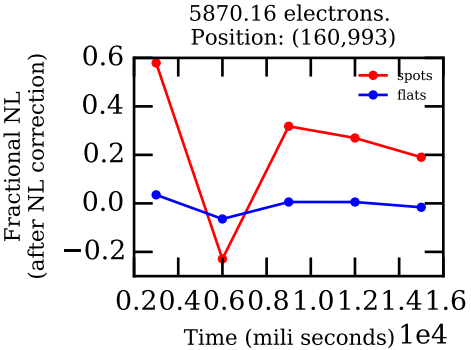

6027.03 electrons.
Position: (160,863)
Fractional NL
(after NL correction)
0.4
0.2
0.0
−0.2
−0.4
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

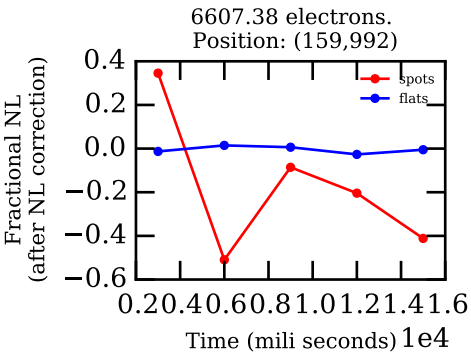

Center: (160,864)
98.4745 e/s
(1477.12 e)
475.807 e/s
(7137.1 e)
93.5668 e/s
(1403.5 e)
521.344 e/s
(7820.17 e)
5761.13 e/s
(86417 e)
502.363 e/s
(7535.45 e)
92.7495 e/s
(1391.24 e)
513.829 e/s
(7707.43 e)
87.5859 e/s
(1313.79 e)

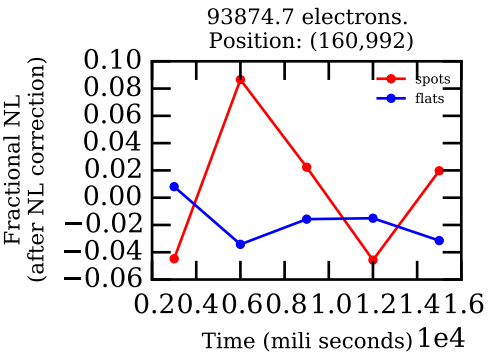

C2 flat
-7.71e-07 +/-
1.69e-17
-6.39e-07 +/-
4.41e-17
-8.72e-07 +/-
7.46e-17
-8.24e-07 +/-
4.79e-17
-8.76e-07 +/-
6.43e-17
-7.5e-07 +/-
8.04e-18
-8.51e-07 +/-
8.02e-18
-7.82e-07 +/-
2.39e-17
-8.16e-07 +/-
2.31e-17

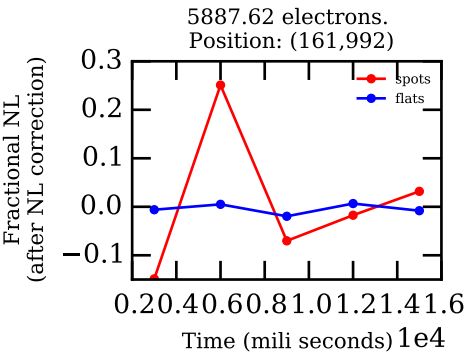

C2 spots
5.29e-05 +/-
1.91e-10
5.1e-05 +/-
1.4e-11
8.38e-06 +/-
8.34e-11
4.14e-05 +/-
3.37e-12
-1.63e-06 +/-
3.38e-16
4.58e-05 +/-
8.4e-12
2.38e-05 +/-
4.5e-11
4.38e-05 +/-
5.54e-12
3.22e-05 +/-
5.73e-12

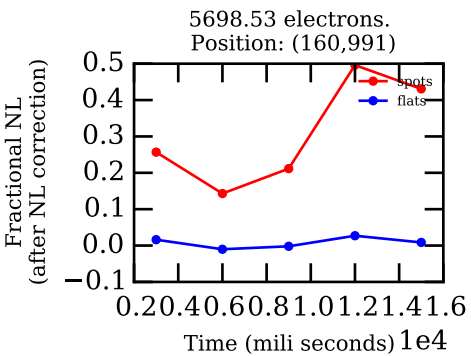

C2 spots after NL correction
-2.3e-05 +/-
8.99e-10
1.08e-06 +/-
6.32e-12
-1.34e-05 +/-
1.98e-11
1.71e-05 +/-
1.48e-12
-4.22e-09 +/-
1.46e-15
-1.05e-06 +/-
6.26e-14
7.37e-05 +/-
2.05e-11
-4.08e-07 +/-
4.51e-12
-3.17e-05 +/-
1.1e-09

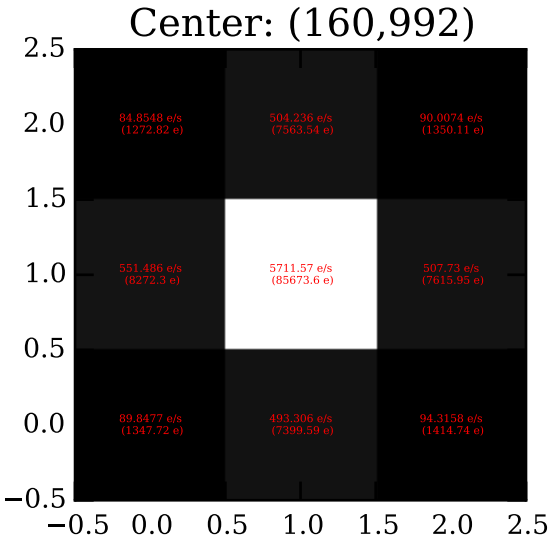

5870.16 electrons.
Position: (160,993)
Fractional NL
(after NL correction)
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

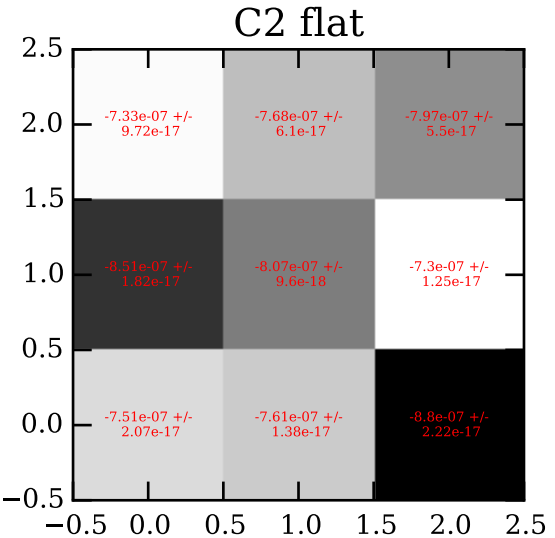

6607.38 electrons.
Position: (159,992)
Fractional NL
(after NL correction)
0.4
0.2
0.0
−0.2
−0.4
−0.6
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

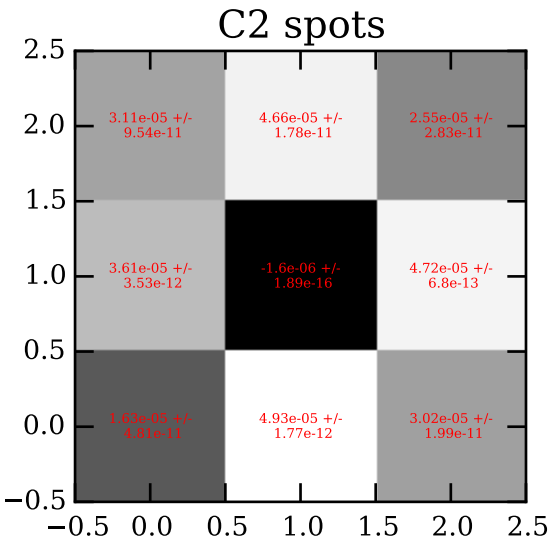

93874.7 electrons.
Position: (160,992)
Fractional NL
(after NL correction)
0.10
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

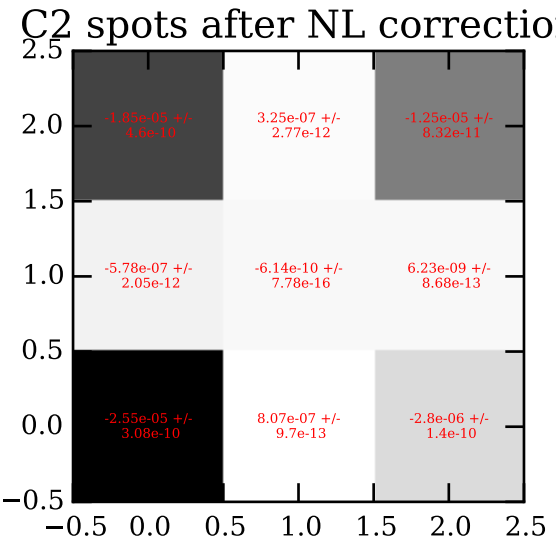

5887.62 electrons.
Position: (161,992)
Fractional NL
(after NL correction)
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

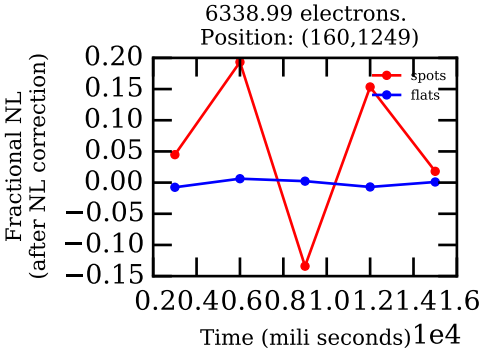

5698.53 electrons.
Position: (160,991)
Fractional NL
(after NL correction)
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

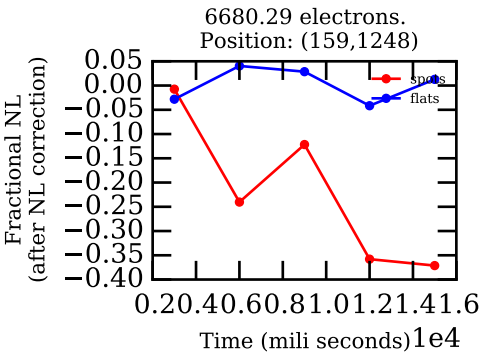

Center: (160,992)
84.8548 e/s
(1272.82 e)
504.236 e/s
(7563.54 e)
90.0074 e/s
(1350.11 e)
551.486 e/s
(8272.3 e)
5711.57 e/s
(85673.6 e)
507.73 e/s
(7615.95 e)
89.8477 e/s
(1347.72 e)
493.306 e/s
(7399.59 e)
94.3158 e/s
(1414.74 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

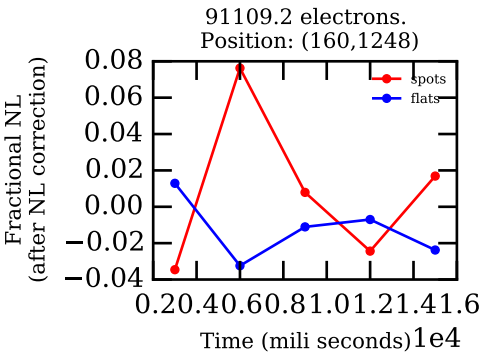

C2 flat
-7.33e-07 +/-
9.72e-17
-7.68e-07 +/-
6.1e-17
-7.97e-07 +/-
5.5e-17
-8.51e-07 +/-
1.82e-17
-8.07e-07 +/-
9.6e-18
-7.3e-07 +/-
1.25e-17
-7.51e-07 +/-
2.07e-17
-7.61e-07 +/-
1.38e-17
-8.8e-07 +/-
2.22e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

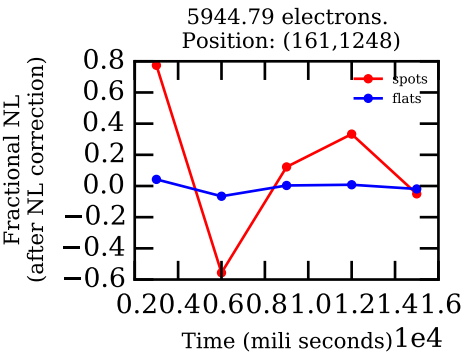

C2 spots
3.11e-05 +/-
9.54e-11
4.66e-05 +/-
1.78e-11
2.55e-05 +/-
2.83e-11
3.61e-05 +/-
3.53e-12
-1.6e-06 +/-
1.89e-16
4.72e-05 +/-
6.8e-13
1.63e-05 +/-
4.81e-11
4.93e-05 +/-
1.77e-12
3.02e-05 +/-
1.99e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

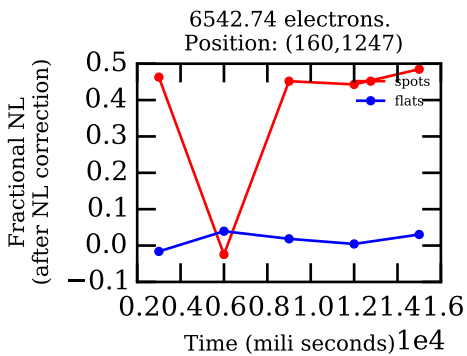

C2 spots after NL correction
-1.85e-05 +/-
4.6e-10
3.25e-07 +/-
2.77e-12
-1.25e-05 +/-
8.32e-11
-5.78e-07 +/-
2.05e-12
-6.14e-10 +/-
7.78e-16
6.23e-09 +/-
8.68e-13
-2.55e-05 +/-
3.08e-10
8.07e-07 +/-
9.7e-13
-2.8e-06 +/-
1.4e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

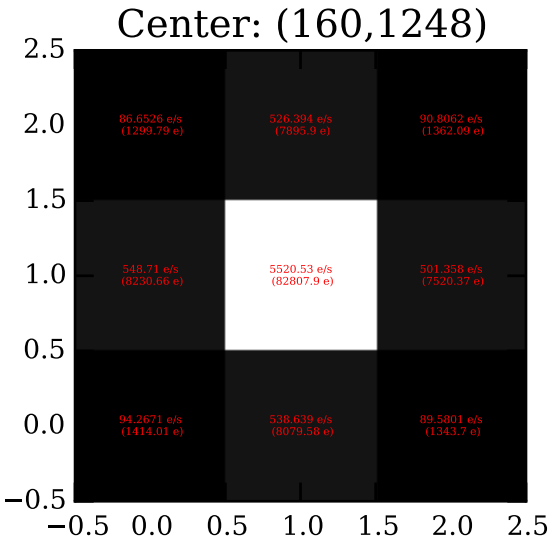

6338.99 electrons.
Position: (160,1249)
Fractional NL
(after NL correction)
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

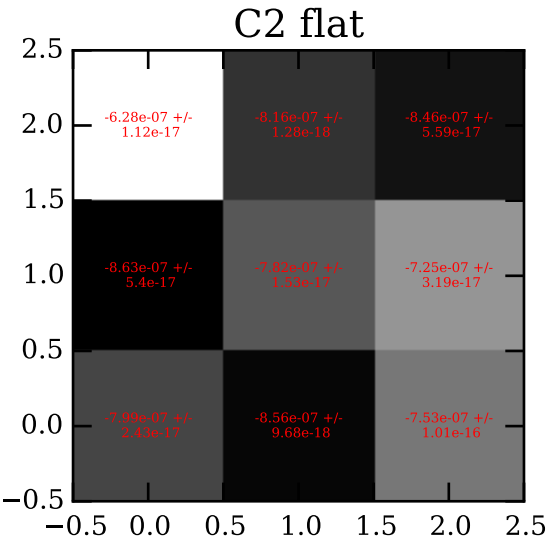

6680.29 electrons.
Position: (159,1248)
Fractional NL
(after NL correction)
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

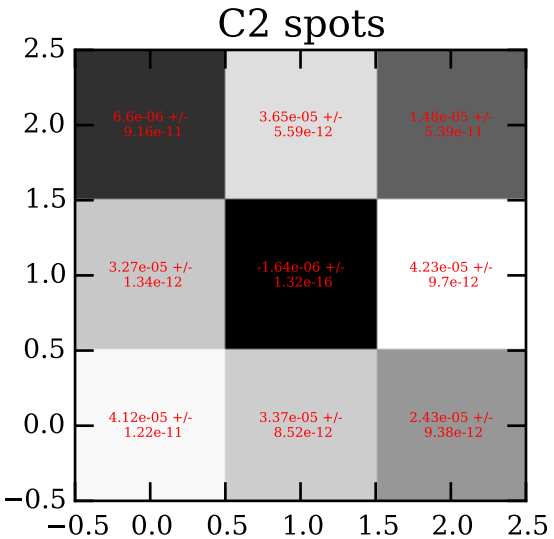

91109.2 electrons.
Position: (160,1248)
Fractional NL
(after NL correction)
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

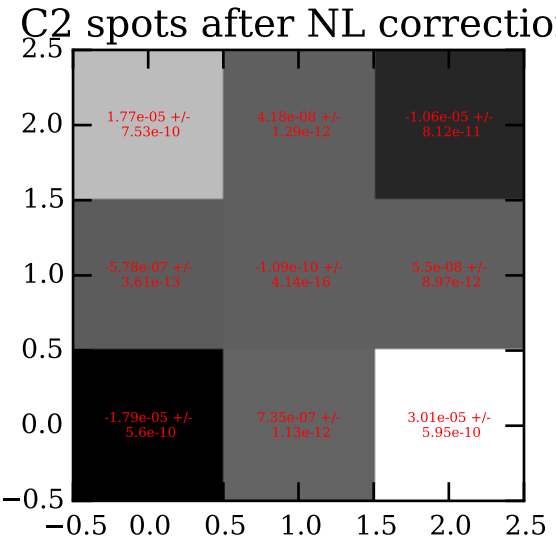

5944.79 electrons.
Position: (161,1248)
Fractional NL
(after NL correction)
0.8
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

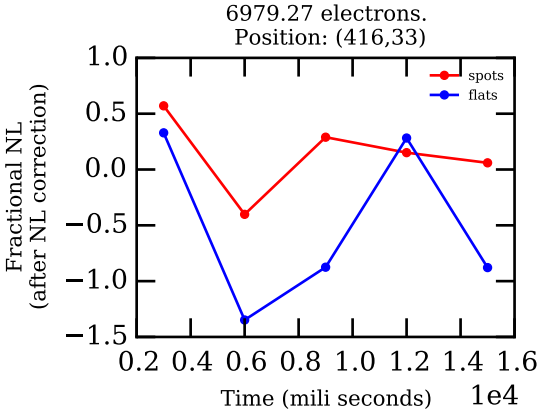

6542.74 electrons.
Position: (160,1247)
Fractional NL
(after NL correction)
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

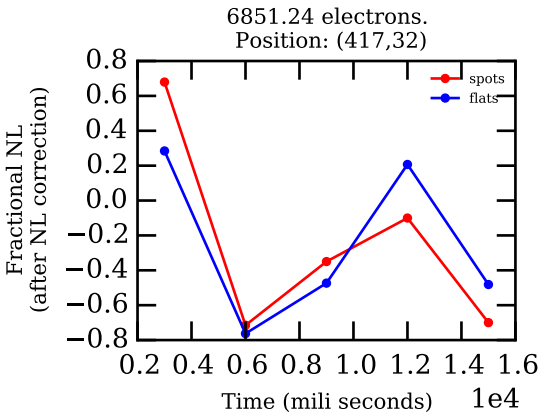

Center: (160,1248)
86.6526 e/s
(1299.79 e)
526.394 e/s
(7895.9 e)
90.8062 e/s
(1362.09 e)
548.71 e/s
(8230.66 e)
5520.53 e/s
(82807.9 e)
501.358 e/s
(7520.37 e)
94.2671 e/s
(1414.01 e)
538.639 e/s
(8079.58 e)
89.5801 e/s
(1343.7 e)

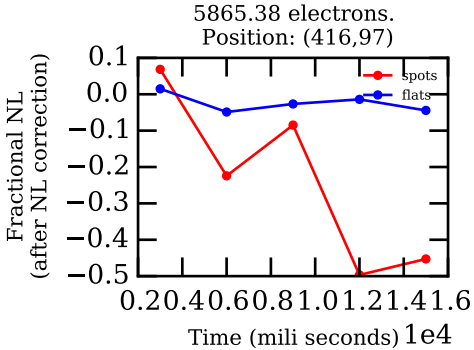

C2 flat
-6.28e-07 +/-
1.12e-17
-8.16e-07 +/-
1.28e-18
-8.46e-07 +/-
5.59e-17
-8.63e-07 +/-
5.4e-17
-7.62e-07 +/-
1.55e-17
-7.25e-07 +/-
3.19e-17
-7.99e-07 +/-
2.43e-17
-8.56e-07 +/-
9.68e-18
-7.53e-07 +/-
1.01e-16

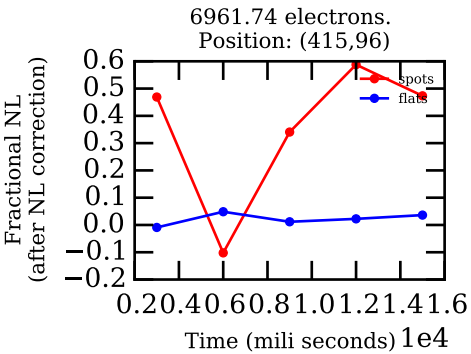

C2 spots
6.6e-06 +/-
9.16e-11
3.65e-05 +/-
5.59e-12
1.48e-05 +/-
5.39e-11
3.27e-05 +/-
1.34e-12
-1.64e-06 +/-
1.32e-16
4.23e-05 +/-
9.7e-12
4.12e-05 +/-
1.22e-11
3.37e-05 +/-
8.52e-12
2.43e-05 +/-
9.38e-12

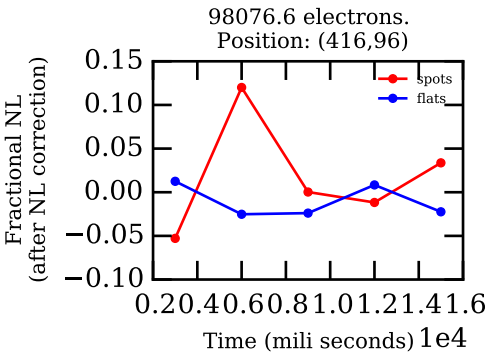

C2 spots after NL correction
1.77e-05 +/-
7.53e-10
4.18e-08 +/-
1.29e-12
-1.06e-05 +/-
8.12e-11
-5.78e-07 +/-
3.61e-13
-1.09e-10 +/-
4.14e-16
5.5e-08 +/-
8.97e-12
-1.79e-05 +/-
5.6e-10
7.35e-07 +/-
1.13e-12
3.01e-05 +/-
5.95e-10

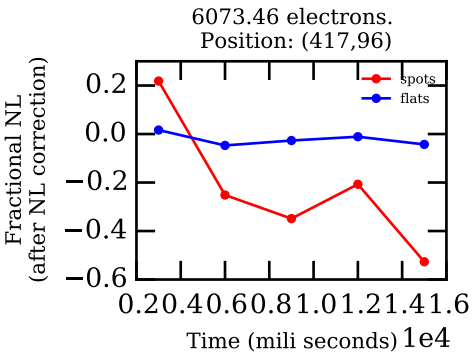

6979.27 electrons.
Position: (416,33)
spots
flats
Fractional NL
(after NL correction)
1.0
0.5
0.0
−0.5
−1.0
−1.5
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

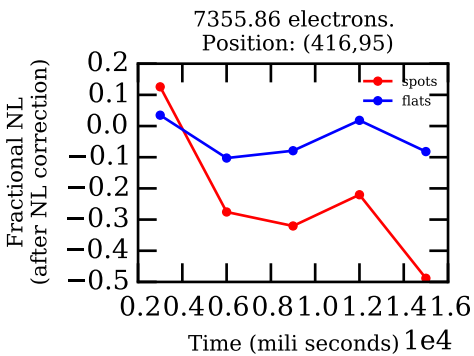

6851.24 electrons.
Position: (417,32)
spots
flats
Fractional NL
(after NL correction)
0.8
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.8
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

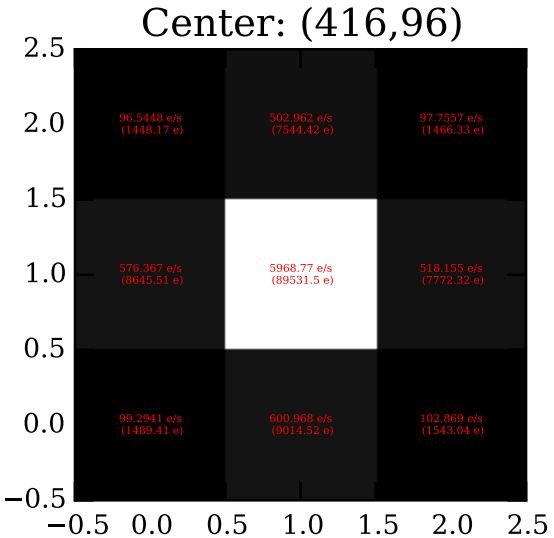

5865.38 electrons.
Position: (416,97)
Fractional NL
(after NL correction)
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

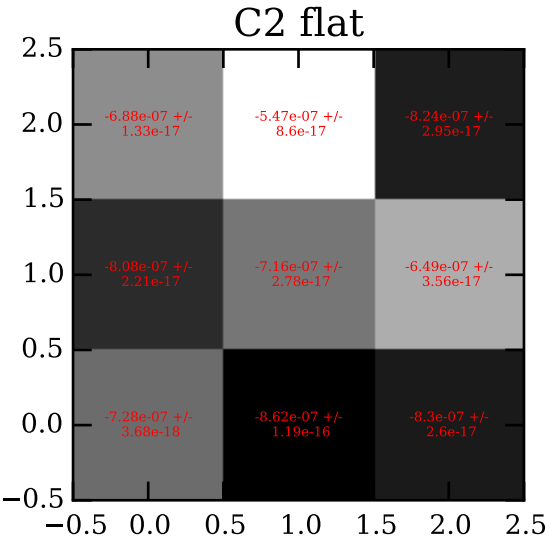

6961.74 electrons.
Position: (415,96)
Fractional NL
(after NL correction)
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

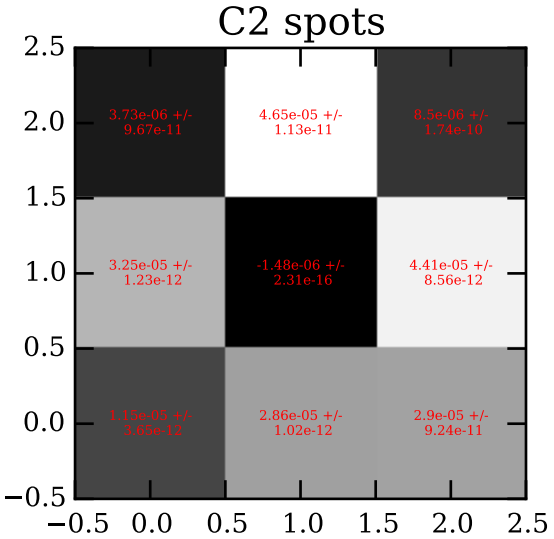

98076.6 electrons.
Position: (416,96)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
−0.10
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

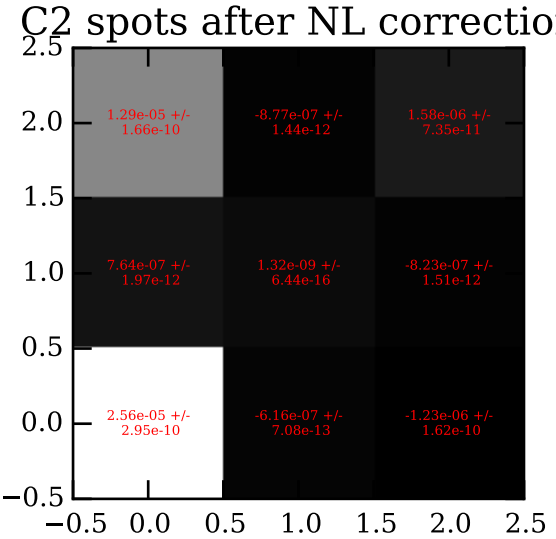

6073.46 electrons.
Position: (417,96)
Fractional NL
(after NL correction)
0.2
0.0
−0.2
−0.4
−0.6
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

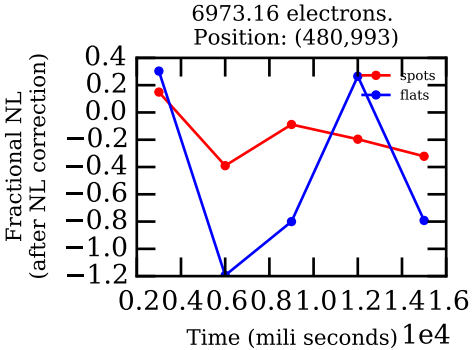

7355.86 electrons.
Position: (416,95)
Fractional NL
(after NL correction)
0.2
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

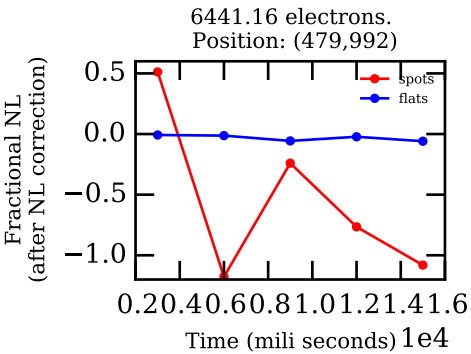

Center: (416,96)
96.5448 e/s
(1448.17 e)
502.962 e/s
(7544.42 e)
97.7557 e/s
(1466.33 e)
576.367 e/s
(8645.51 e)
5968.77 e/s
(89531.5 e)
518.155 e/s
(7772.32 e)
99.2941 e/s
(1489.41 e)
600.968 e/s
(9014.52 e)
102.869 e/s
(1543.04 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

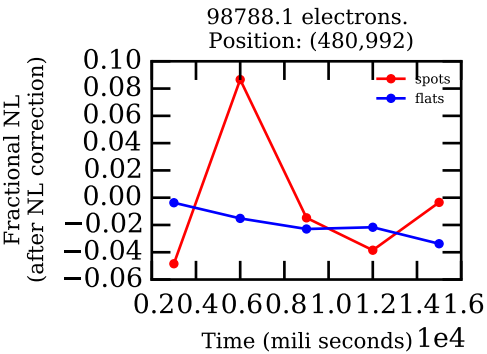

C2 flat
-6.88e-07 +/-
1.33e-17
-5.47e-07 +/-
8.6e-17
-8.24e-07 +/-
2.95e-17
-8.08e-07 +/-
2.21e-17
-7.16e-07 +/-
2.78e-17
-6.49e-07 +/-
3.56e-17
-7.28e-07 +/-
3.68e-18
-8.62e-07 +/-
1.19e-16
-8.3e-07 +/-
2.6e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

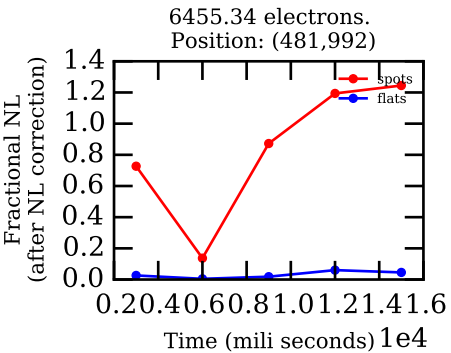

C2 spots
3.73e-06 +/-
9.67e-11
4.65e-05 +/-
1.13e-11
8.5e-06 +/-
1.74e-10
3.25e-05 +/-
1.23e-12
-1.48e-06 +/-
2.31e-16
4.41e-05 +/-
8.56e-12
1.15e-05 +/-
3.65e-12
2.86e-05 +/-
1.02e-12
2.9e-05 +/-
9.24e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

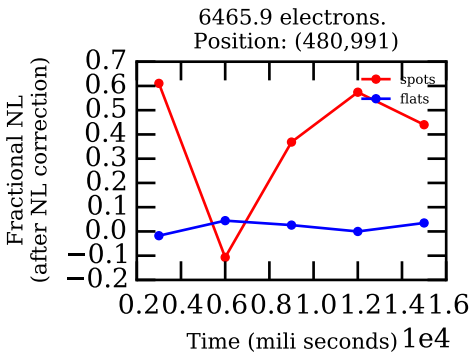

C2 spots after NL correction
1.29e-05 +/-
1.66e-10
-8.77e-07 +/-
1.44e-12
1.58e-06 +/-
7.35e-11
7.64e-07 +/-
1.97e-12
1.32e-09 +/-
6.44e-16
-8.23e-07 +/-
1.51e-12
2.56e-05 +/-
2.95e-10
-6.16e-07 +/-
7.08e-13
-1.23e-06 +/-
1.62e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

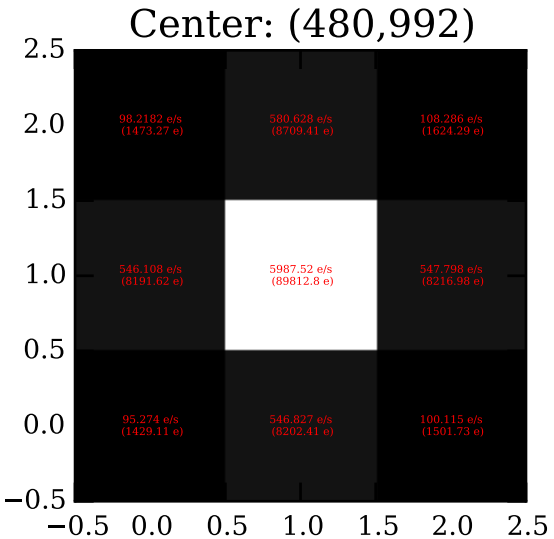

6973.16 electrons.
Position: (480,993)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

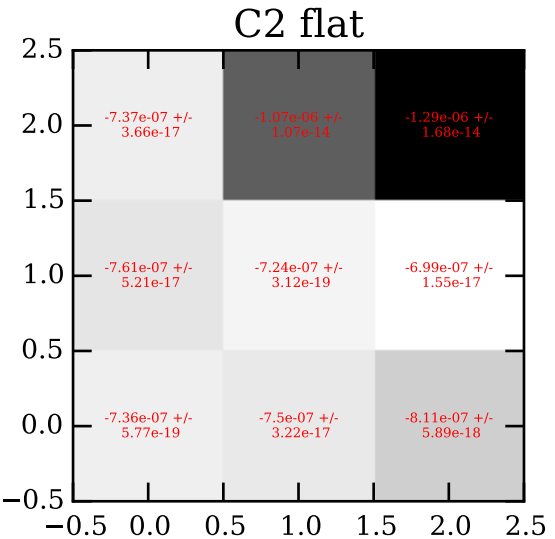

6441.16 electrons.
Position: (479,992)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

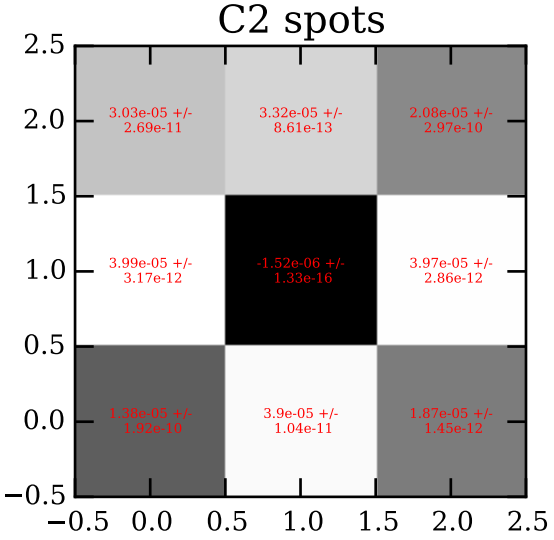

98788.1 electrons.
Position: (480,992)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

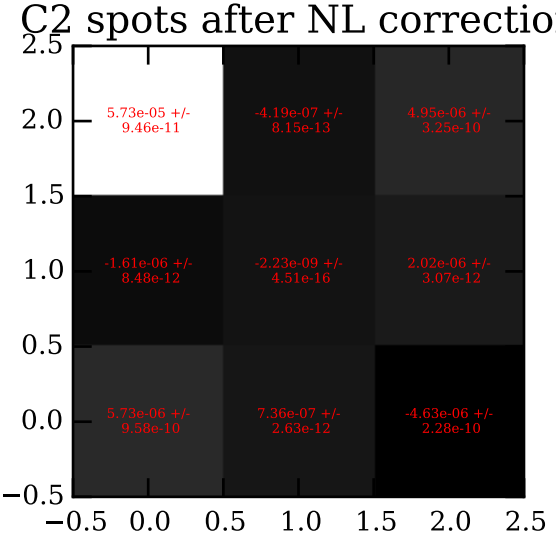

6455.34 electrons.
Position: (481,992)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

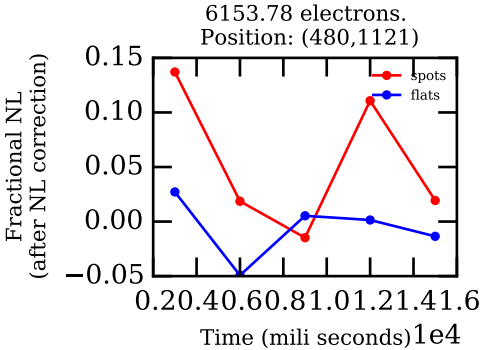

6465.9 electrons.
Position: (480,991)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

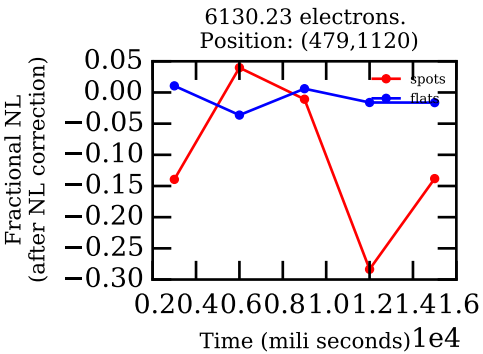

Center: (480,992)
98.2182 e/s
(1473.27 e)
580.628 e/s
(8709.41 e)
108.286 e/s
(1624.29 e)
546.108 e/s
(8191.62 e)
5987.52 e/s
(89812.8 e)
547.798 e/s
(8216.98 e)
95.274 e/s
(1429.11 e)
546.827 e/s
(8202.41 e)
100.115 e/s
(1501.73 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

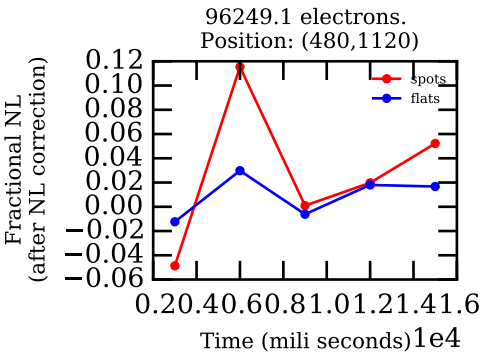

C2 flat
-7.37e-07 +/-
3.66e-17
-1.07e-06 +/-
1.07e-14
-1.29e-06 +/-
1.68e-14
-7.61e-07 +/-
5.21e-17
-7.24e-07 +/-
3.12e-19
-6.99e-07 +/-
1.55e-17
-7.36e-07 +/-
5.77e-19
-7.5e-07 +/-
3.22e-17
-8.11e-07 +/-
5.89e-18
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

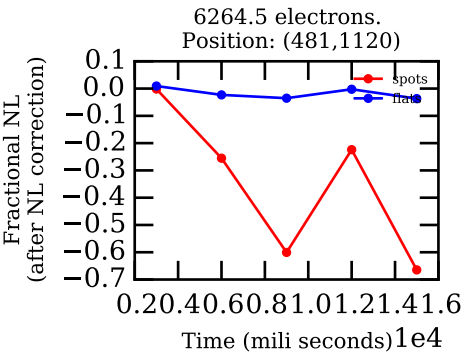

C2 spots
3.03e-05 +/-
2.69e-11
3.32e-05 +/-
8.61e-13
2.08e-05 +/-
2.97e-10
3.99e-05 +/-
3.17e-12
-1.52e-06 +/-
1.33e-16
3.97e-05 +/-
2.86e-12
1.39e-05 +/-
1.94e-10
3.9e-05 +/-
1.04e-11
1.87e-05 +/-
1.45e-12
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

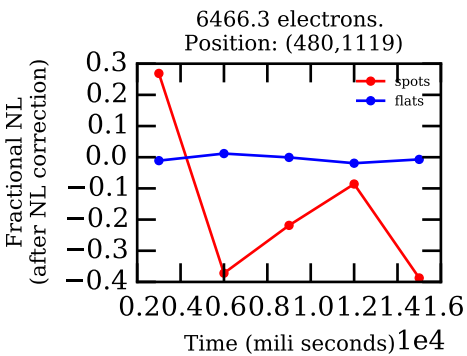

C2 spots after NL correction
5.73e-05 +/-
9.46e-11
-4.19e-07 +/-
8.15e-13
4.95e-06 +/-
3.25e-10
-1.61e-06 +/-
8.48e-12
-2.23e-09 +/-
4.51e-16
2.02e-06 +/-
3.07e-12
5.73e-06 +/-
9.58e-10
7.36e-07 +/-
2.63e-12
-4.63e-06 +/-
2.28e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

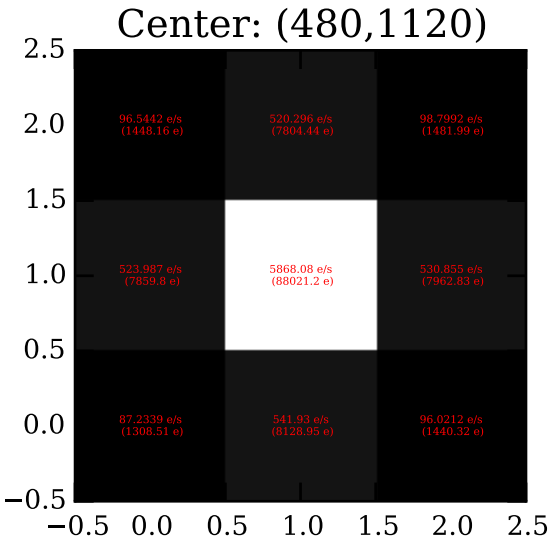

6153.78 electrons.
Position: (480,1121)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

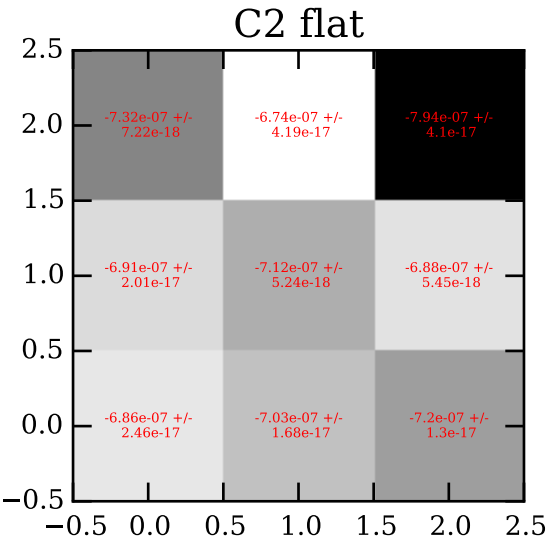

6130.23 electrons.
Position: (479,1120)
Fractional NL
(after NL correction)
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

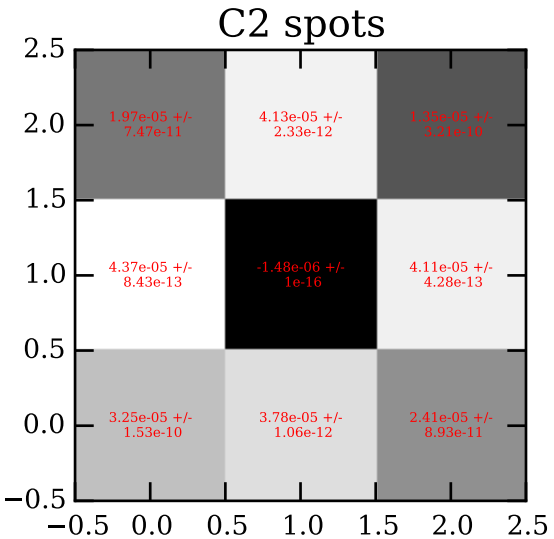

96249.1 electrons.
Position: (480,1120)
Fractional NL
(after NL correction)
0.12
0.10
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

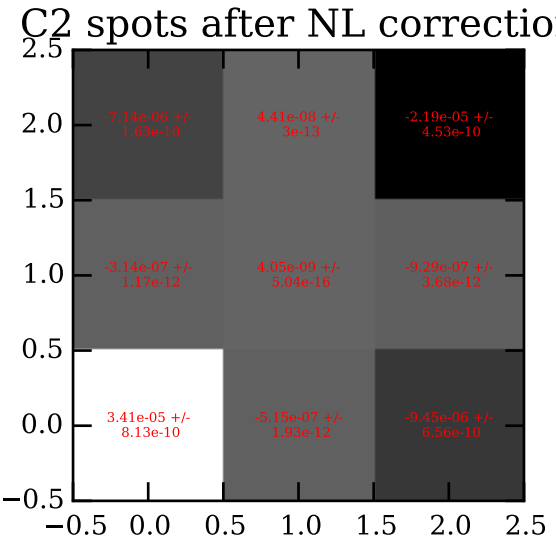

6264.5 electrons.
Position: (481,1120)
Fractional NL
(after NL correction)
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

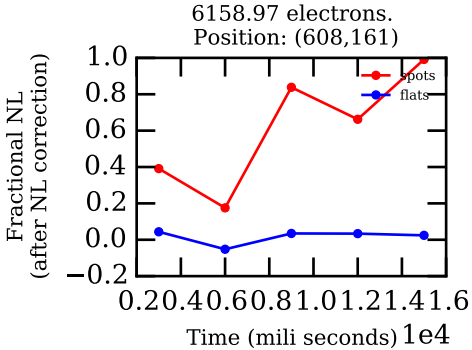

6466.3 electrons.
Position: (480,1119)
Fractional NL
(after NL correction)
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
−0.4
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

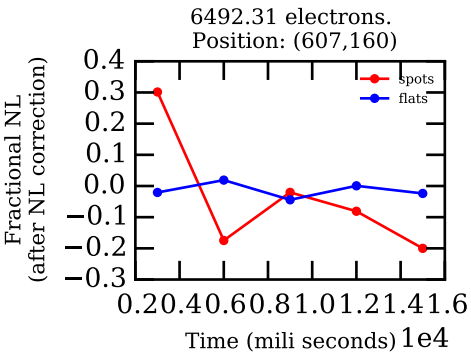

Center: (480,1120)
96.5442 e/s
(1448.16 e)
520.296 e/s
(7804.44 e)
98.7992 e/s
(1481.99 e)
523.987 e/s
(7859.8 e)
5868.08 e/s
(88021.2 e)
530.855 e/s
(7962.83 e)
87.2339 e/s
(1308.51 e)
541.93 e/s
(8128.95 e)
96.0212 e/s
(1440.32 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

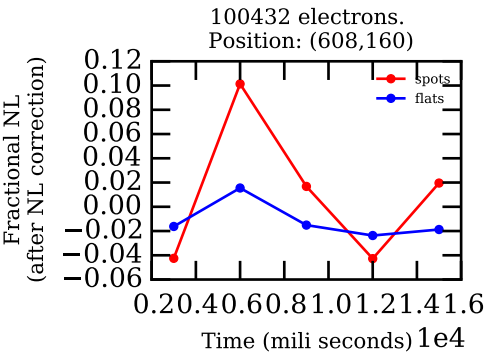

C2 flat
-7.32e-07 +/-
7.22e-18
-6.74e-07 +/-
4.19e-17
-7.94e-07 +/-
4.1e-17
-6.91e-07 +/-
2.01e-17
-7.12e-07 +/-
5.24e-18
-6.88e-07 +/-
5.45e-18
-6.86e-07 +/-
2.46e-17
-7.03e-07 +/-
1.68e-17
-7.2e-07 +/-
1.3e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

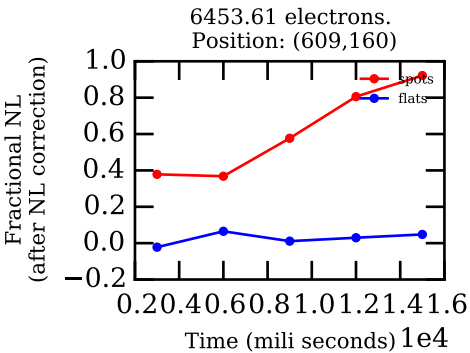

C2 spots
1.97e-05 +/-
7.47e-11
4.13e-05 +/-
2.33e-12
1.35e-05 +/-
3.21e-10
4.37e-05 +/-
8.43e-13
-1.48e-06 +/-
1e-16
4.11e-05 +/-
4.28e-13
3.25e-05 +/-
1.53e-10
3.78e-05 +/-
1.06e-12
2.41e-05 +/-
8.93e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

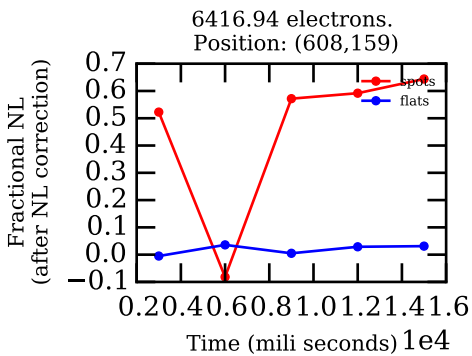

C2 spots after NL correction
-7.14e-06 +/-
1.63e-10
4.41e-08 +/-
3e-13
-2.19e-05 +/-
4.53e-10
-3.14e-07 +/-
1.17e-12
4.05e-09 +/-
5.04e-16
-9.29e-07 +/-
3.68e-12
3.41e-05 +/-
8.13e-10
-5.15e-07 +/-
1.93e-12
-9.45e-06 +/-
6.56e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

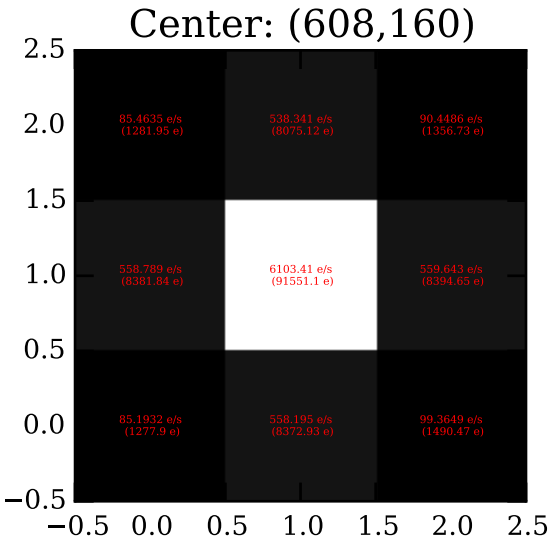

6158.97 electrons.
Position: (608,161)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

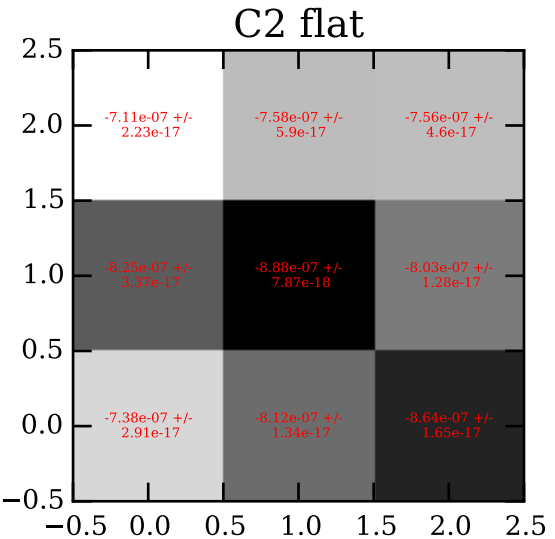

6492.31 electrons.
Position: (607,160)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

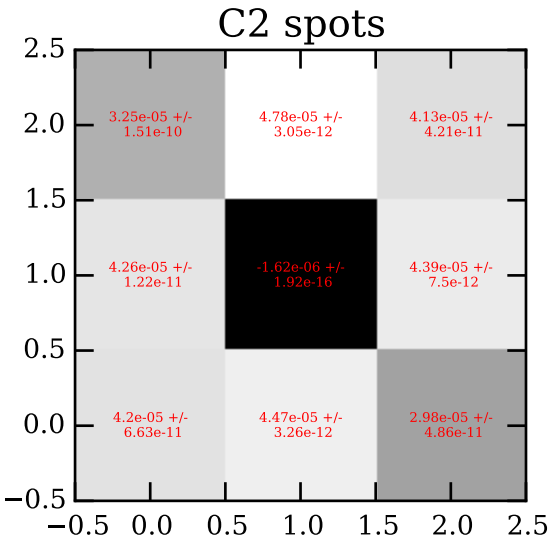

100432 electrons.
Position: (608,160)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

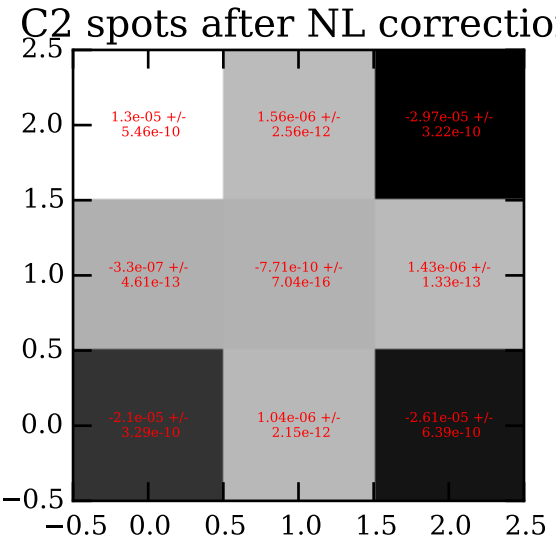

6453.61 electrons.
Position: (609,160)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

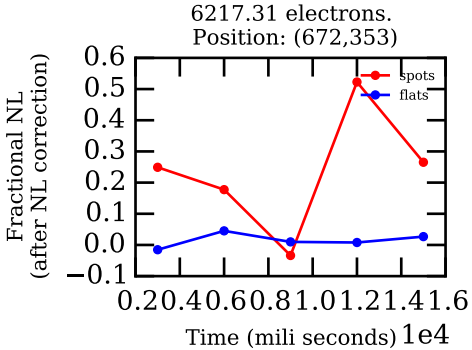

6416.94 electrons.
Position: (608,159)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

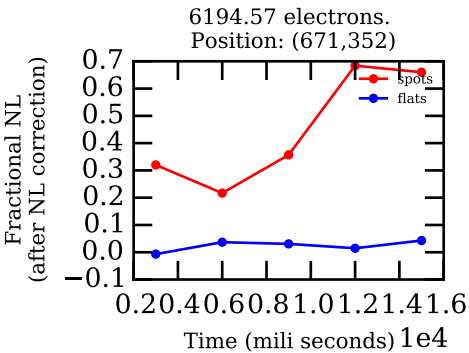

Center: (608,160)
85.4635 e/s
(1281.95 e)
538.341 e/s
(8075.12 e)
90.4486 e/s
(1356.73 e)
558.789 e/s
(8381.84 e)
6103.41 e/s
(91551.1 e)
559.643 e/s
(8394.65 e)
85.1932 e/s
(1277.9 e)
558.195 e/s
(8372.93 e)
99.3649 e/s
(1490.47 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

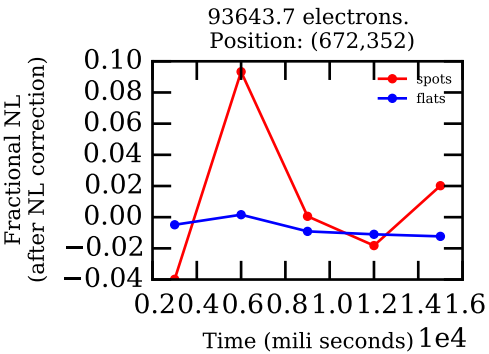

C2 flat
-7.11e-07 +/-
2.23e-17
-7.58e-07 +/-
5.9e-17
-7.56e-07 +/-
4.6e-17
-8.25e-07 +/-
3.37e-17
-8.88e-07 +/-
7.87e-18
-8.03e-07 +/-
1.28e-17
-7.38e-07 +/-
2.91e-17
-8.12e-07 +/-
1.34e-17
-8.64e-07 +/-
1.65e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

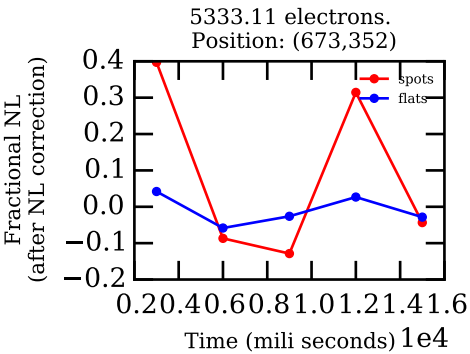

C2 spots
3.25e-05 +/-
1.51e-10
4.78e-05 +/-
3.05e-12
4.13e-05 +/-
4.21e-11
4.26e-05 +/-
1.22e-11
-1.62e-06 +/-
1.92e-16
4.39e-05 +/-
7.5e-12
4.2e-05 +/-
6.63e-11
4.47e-05 +/-
3.26e-12
2.98e-05 +/-
4.86e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

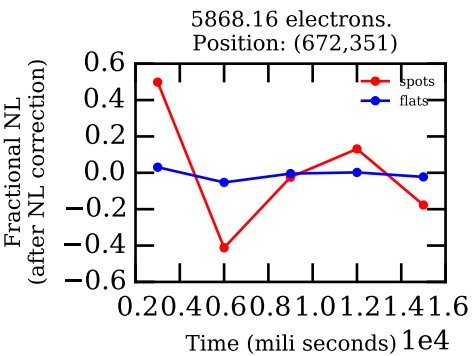

C2 spots after NL correction
1.3e-05 +/-
5.46e-10
1.56e-06 +/-
2.56e-12
-2.97e-05 +/-
3.22e-10
-3.3e-07 +/-
4.61e-13
-7.71e-10 +/-
7.04e-16
1.43e-06 +/-
1.33e-13
-2.1e-05 +/-
3.29e-10
1.04e-06 +/-
2.15e-12
-2.61e-05 +/-
6.39e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

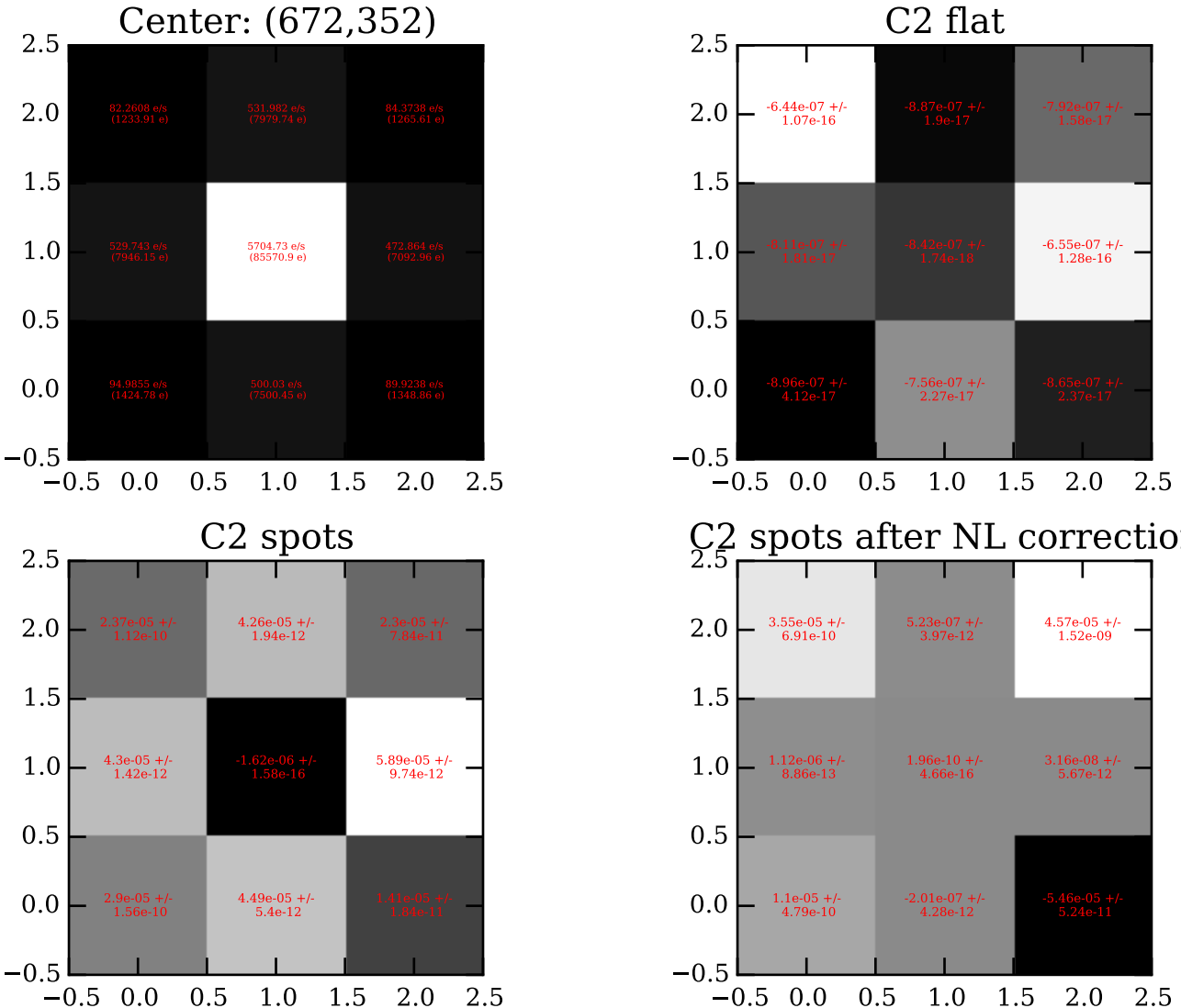

6217.31 electrons.
Position: (672,353)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

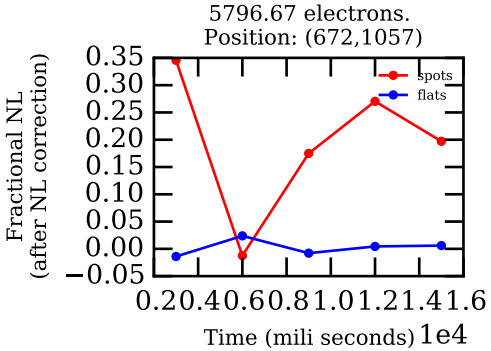

6194.57 electrons.
Position: (671,352)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

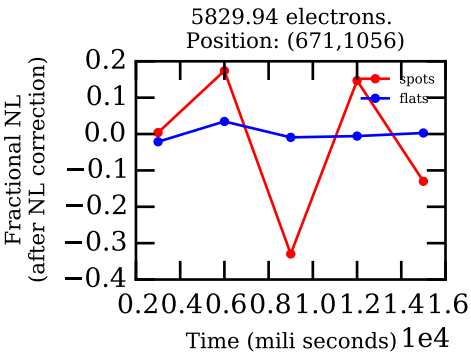

93643.7 electrons.
Position: (672,352)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

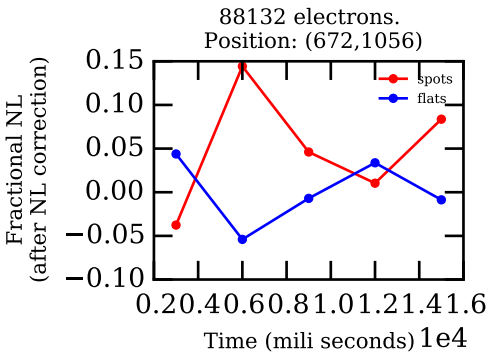

5333.11 electrons.
Position: (673,352)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

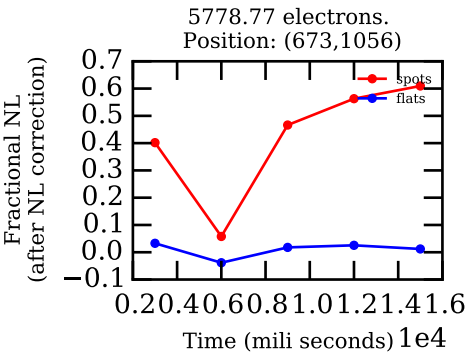

5868.16 electrons.
Position: (672,351)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

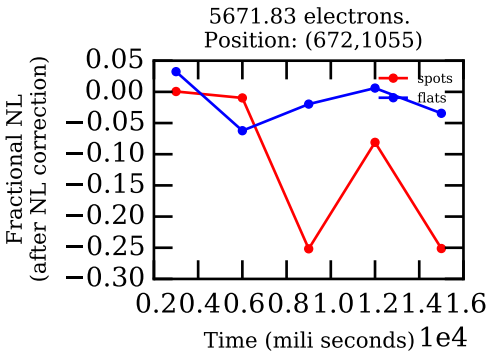

Center: (672,352)
82.2608 e/s
(1233.91 e)
531.982 e/s
(7979.74 e)
84.3738 e/s
(1265.61 e)
529.743 e/s
(7946.15 e)
5704.73 e/s
(85570.9 e)
472.864 e/s
(7092.96 e)
94.9855 e/s
(1424.78 e)
500.03 e/s
(7500.45 e)
89.9238 e/s
(1348.86 e)
C2 flat
-6.44e-07 +/-
1.07e-16
-8.87e-07 +/-
1.9e-17
-7.92e-07 +/-
1.58e-17
-8.11e-07 +/-
1.81e-17
-8.42e-07 +/-
1.74e-18
-6.55e-07 +/-
1.28e-16
-8.96e-07 +/-
4.12e-17
-7.56e-07 +/-
2.27e-17
-8.65e-07 +/-
2.37e-17
C2 spots
2.37e-05 +/-
1.12e-10
4.26e-05 +/-
1.94e-12
2.3e-05 +/-
7.84e-11
4.3e-05 +/-
1.42e-12
-1.62e-06 +/-
1.58e-16
5.89e-05 +/-
9.74e-12
2.9e-05 +/-
1.56e-10
4.49e-05 +/-
5.4e-12
1.41e-05 +/-
1.84e-11
C2 spots after NL correction
3.55e-05 +/-
6.91e-10
5.23e-07 +/-
3.97e-12
4.57e-05 +/-
1.52e-09
1.12e-06 +/-
8.86e-13
1.96e-10 +/-
4.66e-16
3.16e-08 +/-
5.67e-12
1.1e-05 +/-
4.79e-10
-2.01e-07 +/-
4.28e-12
-5.46e-05 +/-
5.24e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5
0.0
0.5
1.0
1.5
2.0
2.5

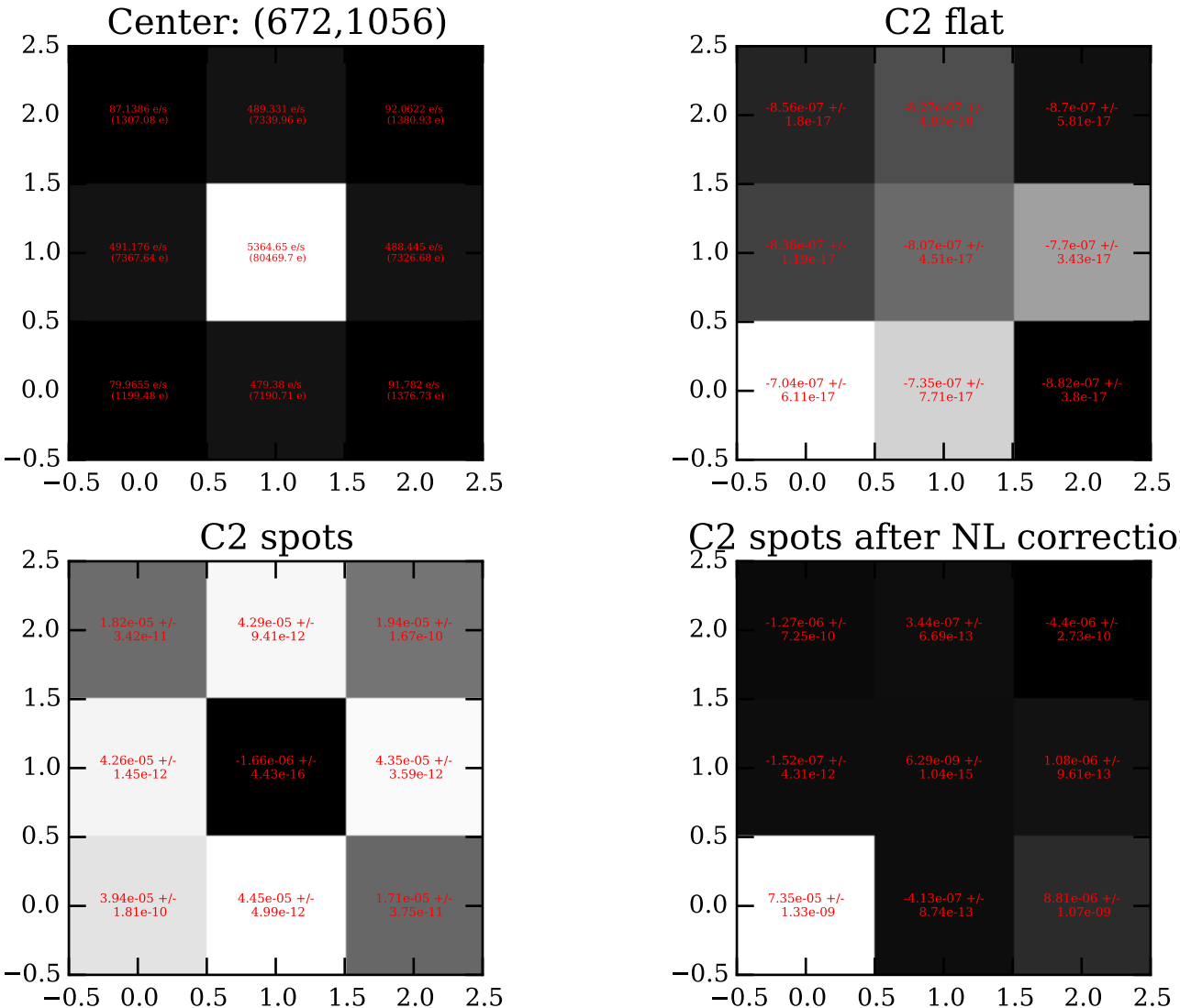

5796.67 electrons.
Position: (672,1057)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

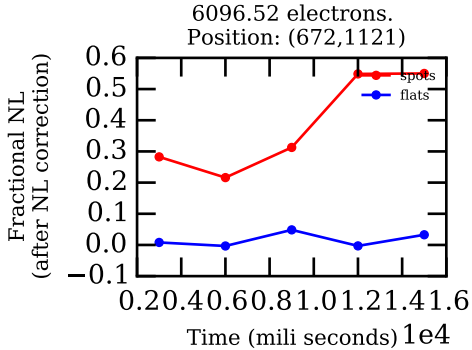

5829.94 electrons.
Position: (671,1056)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

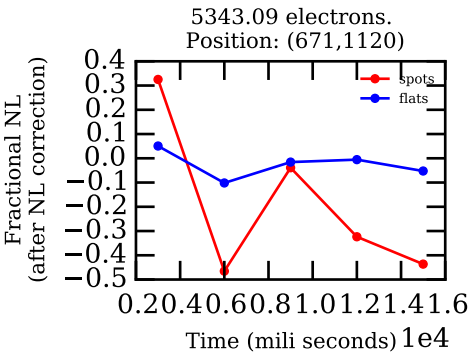

88132 electrons.
Position: (672,1056)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

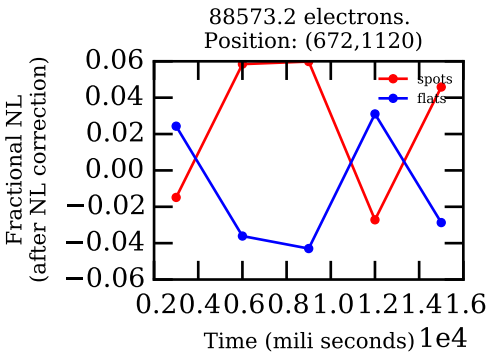

5778.77 electrons.
Position: (673,1056)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

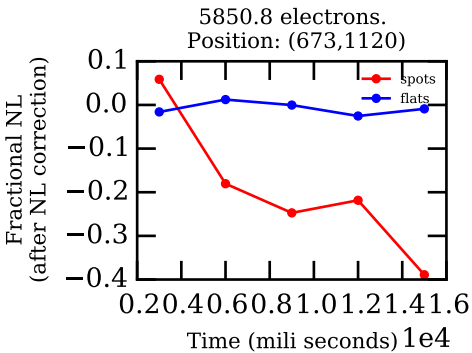

5671.83 electrons.
Position: (672,1055)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

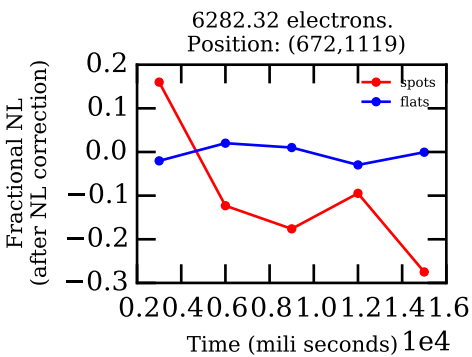

Center: (672,1056)
87.1386 e/s
(1307.08 e)
489.331 e/s
(7339.96 e)
92.0622 e/s
(1380.93 e)
491.176 e/s
(7367.64 e)
5364.65 e/s
(80469.7 e)
488.445 e/s
(7326.68 e)
79.9655 e/s
(1199.48 e)
479.38 e/s
(7190.71 e)
91.782 e/s
(1376.73 e)
C2 flat
-8.56e-07 +/-
1.8e-17
-8.77e-07 +/-
4.87e-18
-8.7e-07 +/-
5.81e-17
-8.36e-07 +/-
1.19e-17
-8.07e-07 +/-
4.51e-17
-7.7e-07 +/-
3.43e-17
-7.04e-07 +/-
6.11e-17
-7.35e-07 +/-
7.71e-17
-8.82e-07 +/-
3.8e-17
C2 spots
1.82e-05 +/-
3.42e-11
4.29e-05 +/-
9.41e-12
1.94e-05 +/-
1.67e-10
4.26e-05 +/-
1.45e-12
-1.66e-06 +/-
4.43e-16
4.35e-05 +/-
3.59e-12
3.94e-05 +/-
1.81e-10
4.45e-05 +/-
4.99e-12
1.71e-05 +/-
3.75e-11
C2 spots after NL correction
-1.27e-06 +/-
7.25e-10
3.44e-07 +/-
6.69e-13
-4.4e-06 +/-
2.73e-10
-1.52e-07 +/-
4.31e-12
6.29e-09 +/-
1.04e-15
1.08e-06 +/-
9.61e-13
7.35e-05 +/-
1.33e-09
-4.13e-07 +/-
8.74e-13
8.81e-06 +/-
1.07e-09
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5
0.0
0.5
1.0
1.5
2.0
2.5

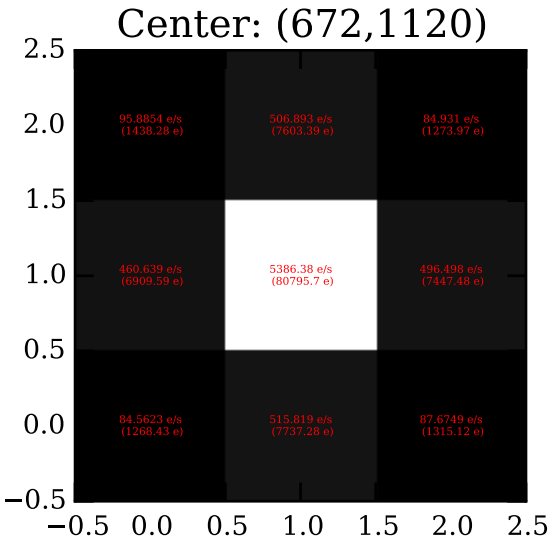

6096.52 electrons.
Position: (672,1121)
Fractional NL
(after NL correction)
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

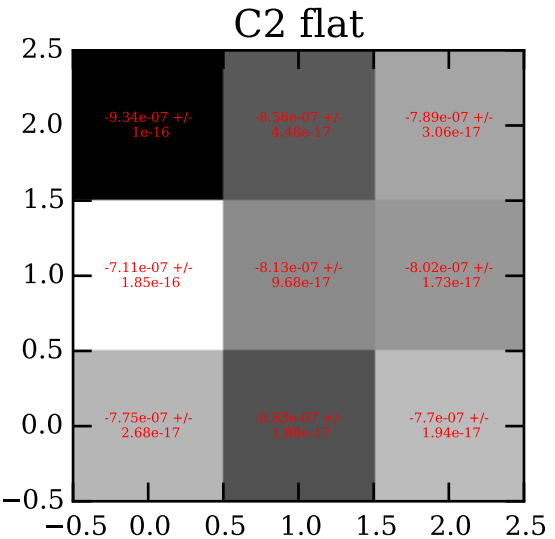

5343.09 electrons.
Position: (671,1120)
Fractional NL
(after NL correction)
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

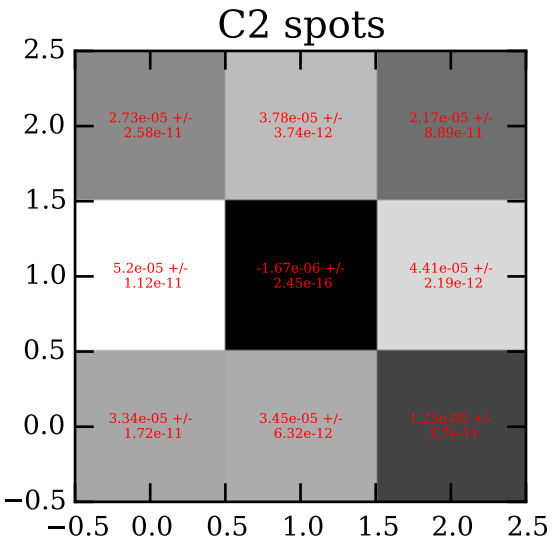

88573.2 electrons.
Position: (672,1120)
Fractional NL
(after NL correction)
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

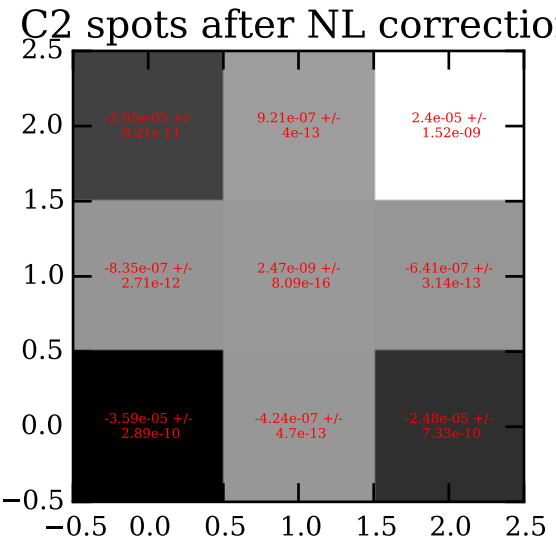

5850.8 electrons.
Position: (673,1120)
Fractional NL
(after NL correction)
0.1
0.0
−0.1
−0.2
−0.3
−0.4
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

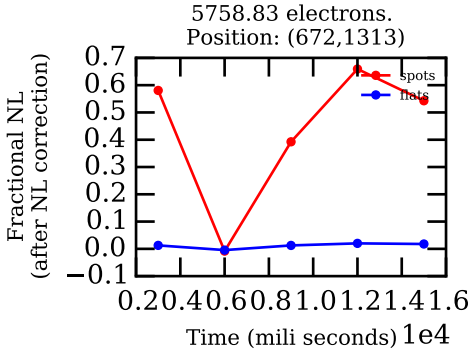

6282.32 electrons.
Position: (672,1119)
Fractional NL
(after NL correction)
0.2
0.1
0.0
−0.1
−0.2
−0.3
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

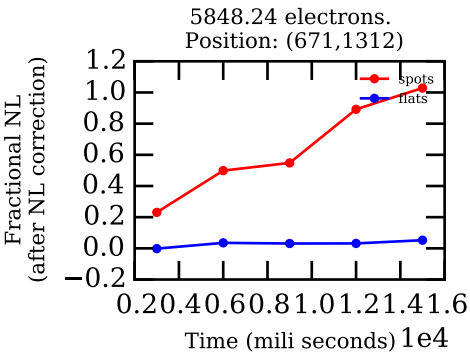

Center: (672,1120)
95.8854 e/s
(1438.28 e)
506.893 e/s
(7603.39 e)
84.931 e/s
(1273.97 e)
460.639 e/s
(6909.59 e)
5386.38 e/s
(80795.7 e)
496.498 e/s
(7447.48 e)
84.5623 e/s
(1268.43 e)
515.819 e/s
(7737.28 e)
87.6749 e/s
(1315.12 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

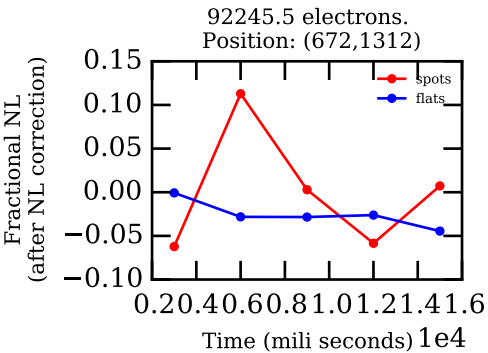

C2 flat
-9.34e-07 +/-
1e-16
-8.26e-07 +/-
4.42e-17
-7.89e-07 +/-
3.06e-17
-7.11e-07 +/-
1.85e-16
-8.13e-07 +/-
9.68e-17
-8.02e-07 +/-
1.73e-17
-7.75e-07 +/-
2.68e-17
-8.05e-07 +/-
1.88e-17
-7.7e-07 +/-
1.94e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

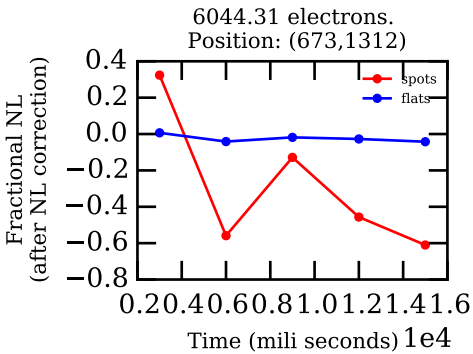

C2 spots
2.73e-05 +/-
2.58e-11
3.78e-05 +/-
3.74e-12
2.17e-05 +/-
8.89e-11
5.2e-05 +/-
1.12e-11
-1.67e-06 +/-
2.45e-16
4.41e-05 +/-
2.19e-12
3.34e-05 +/-
1.72e-11
3.45e-05 +/-
6.32e-12
1.25e-05 +/-
3.7e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

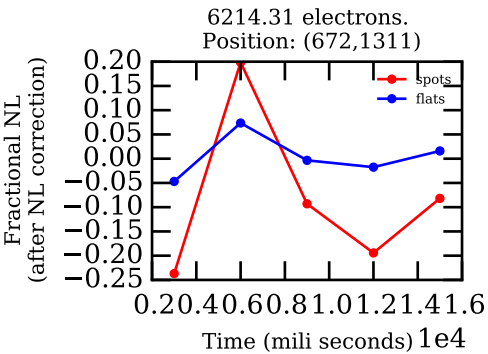

C2 spots after NL correction
-2.05e-05 +/-
9.21e-11
9.21e-07 +/-
4e-13
2.4e-05 +/-
1.52e-09
-8.35e-07 +/-
2.71e-12
2.47e-09 +/-
8.09e-16
-6.41e-07 +/-
3.14e-13
-3.59e-05 +/-
2.89e-10
-4.24e-07 +/-
4.7e-13
-2.48e-05 +/-
7.33e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

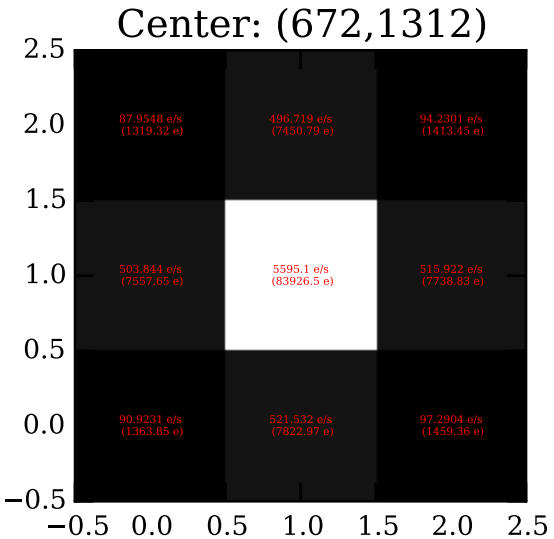

5758.83 electrons.
Position: (672,1313)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

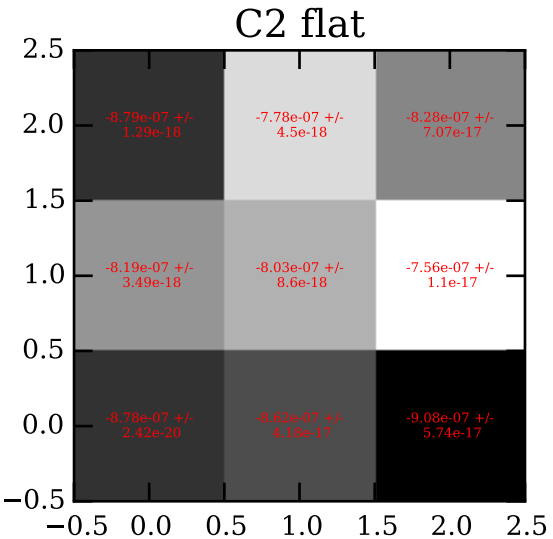

5848.24 electrons.
Position: (671,1312)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

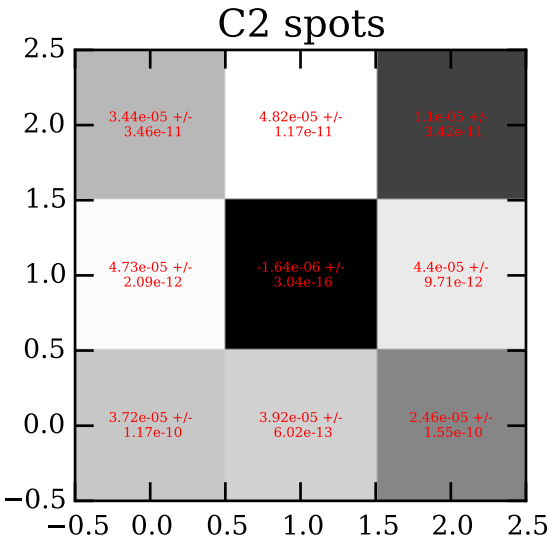

92245.5 electrons.
Position: (672,1312)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

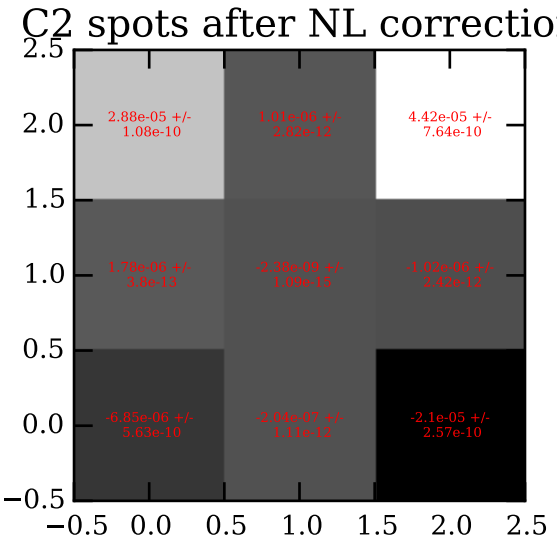

6044.31 electrons.
Position: (673,1312)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

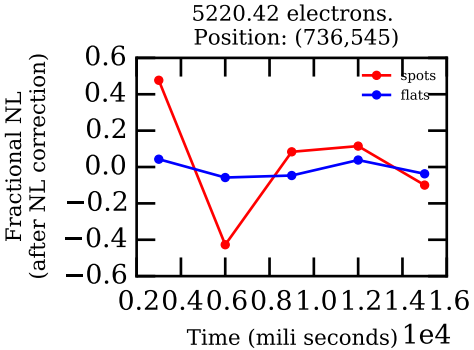

6214.31 electrons.
Position: (672,1311)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

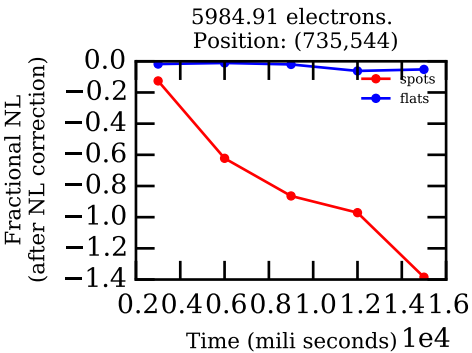

Center: (672,1312)
87.9548 e/s
(1319.32 e)
496.719 e/s
(7450.79 e)
94.2301 e/s
(1413.45 e)
503.844 e/s
(7557.65 e)
5595.1 e/s
(83926.5 e)
515.922 e/s
(7738.83 e)
90.9231 e/s
(1363.85 e)
521.532 e/s
(7822.97 e)
97.2904 e/s
(1459.36 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

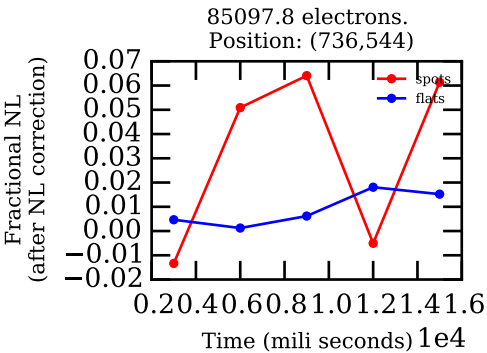

C2 flat
-8.79e-07 +/-
1.29e-18
-7.78e-07 +/-
4.5e-18
-8.28e-07 +/-
7.07e-17
-8.19e-07 +/-
3.49e-18
-8.03e-07 +/-
8.6e-18
-7.56e-07 +/-
1.1e-17
-8.78e-07 +/-
2.42e-20
-9.08e-07 +/-
5.74e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

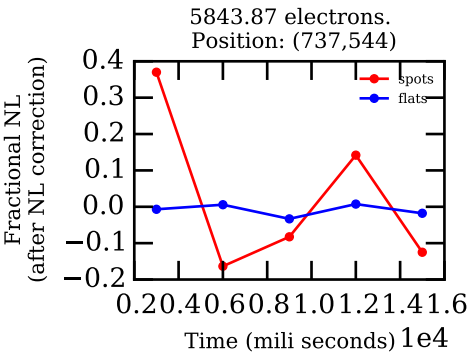

C2 spots
3.44e-05 +/-
3.46e-11
4.82e-05 +/-
1.17e-11
1.1e-05 +/-
3.42e-11
4.73e-05 +/-
2.09e-12
-1.64e-06 +/-
3.04e-16
4.4e-05 +/-
9.71e-12
3.72e-05 +/-
1.17e-10
3.92e-05 +/-
6.02e-13
2.46e-05 +/-
1.55e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

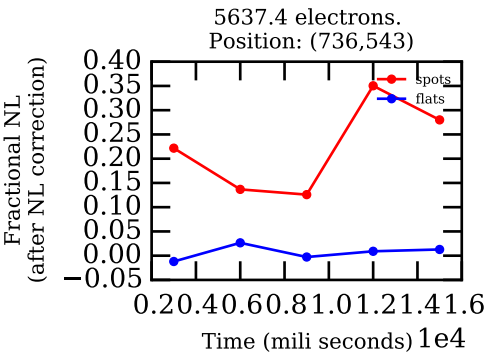

C2 spots after NL correction
2.88e-05 +/-
1.08e-10
1.21e-06 +/-
2.82e-12
4.42e-05 +/-
7.64e-10
1.78e-05 +/-
3.8e-13
-2.38e-09 +/-
1.89e-15
-1.02e-06 +/-
2.42e-12
-6.85e-06 +/-
5.63e-10
-2.04e-07 +/-
1.11e-12
-2.1e-05 +/-
2.57e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

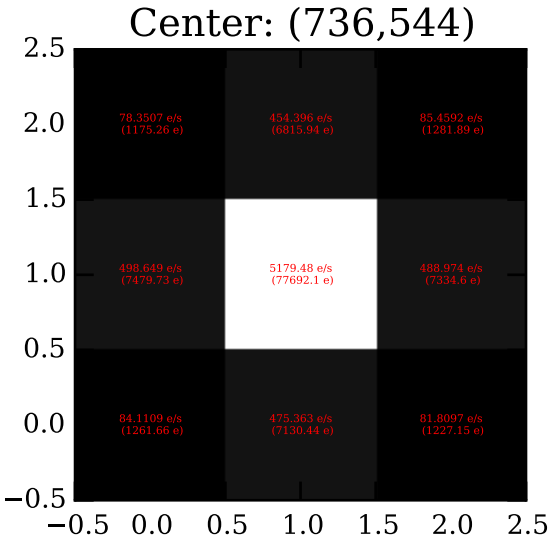

5220.42 electrons.
Position: (736,545)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

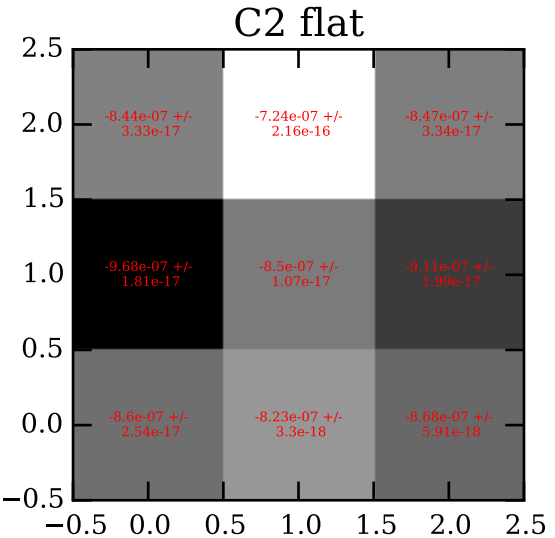

5984.91 electrons.
Position: (735,544)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

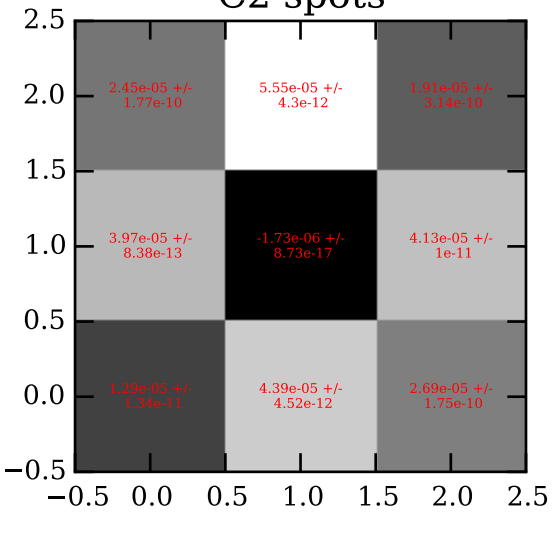

85097.8 electrons.
Position: (736,544)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

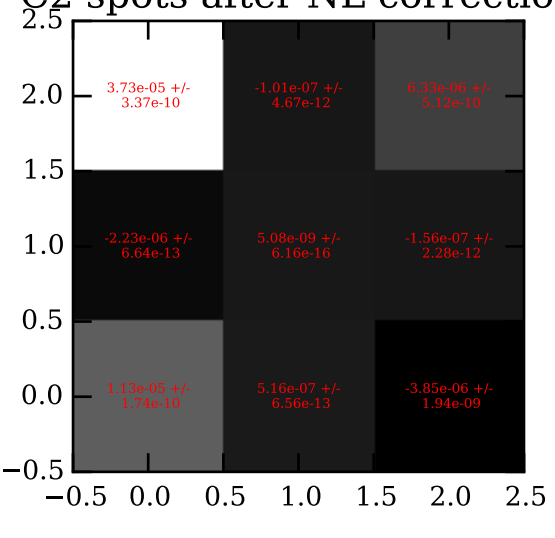

5843.87 electrons.
Position: (737,544)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

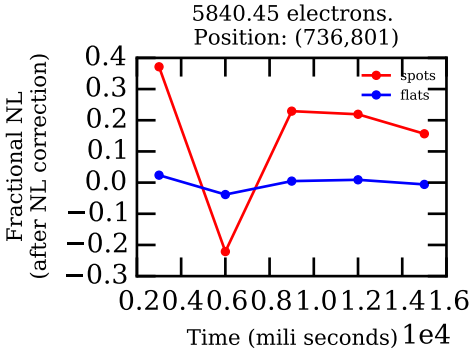

5637.4 electrons.
Position: (736,543)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

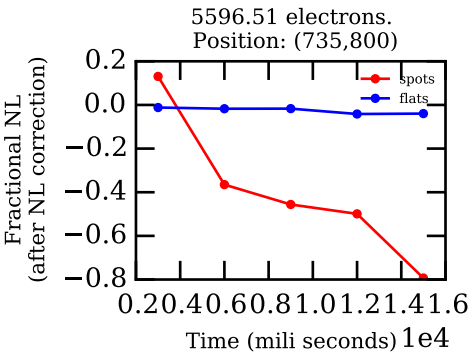

Center: (736,544)
78.3507 e/s
(1175.26 e)
454.396 e/s
(6815.94 e)
85.4592 e/s
(1281.89 e)
498.649 e/s
(7479.73 e)
5179.48 e/s
(77692.1 e)
488.974 e/s
(7334.6 e)
84.1109 e/s
(1261.66 e)
475.363 e/s
(7130.44 e)
81.8097 e/s
(1227.15 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

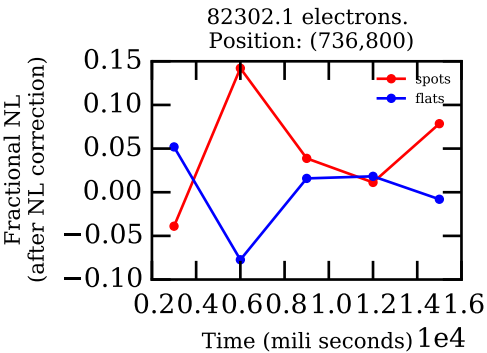

C2 flat
-8.44e-07 +/-
3.33e-17
-7.24e-07 +/-
2.16e-16
-8.47e-07 +/-
3.34e-17
-9.68e-07 +/-
1.81e-17
-8.5e-07 +/-
1.07e-17
-9.11e-07 +/-
1.99e-17
-8.6e-07 +/-
2.54e-17
-8.23e-07 +/-
3.3e-18
-8.68e-07 +/-
5.91e-18
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

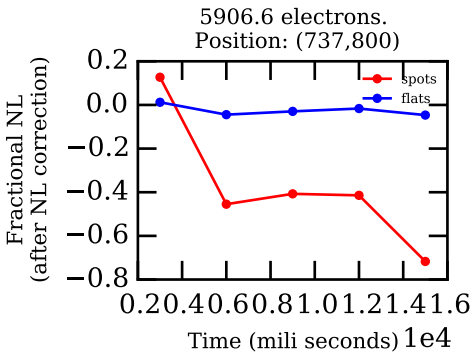

C2 spots
2.45e-05 +/-
1.77e-10
5.55e-05 +/-
4.3e-12
1.91e-05 +/-
3.14e-10
3.97e-05 +/-
8.38e-13
-1.73e-06 +/-
8.73e-17
4.13e-05 +/-
1e-11
1.29e-05 +/-
1.34e-11
4.39e-05 +/-
4.52e-12
2.69e-05 +/-
1.75e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

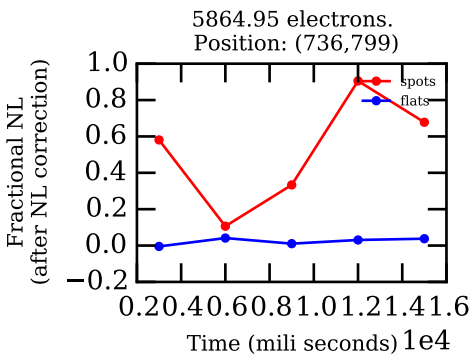

C2 spots after NL correction
3.73e-05 +/-
3.37e-10
-1.01e-07 +/-
4.67e-12
6.33e-06 +/-
5.12e-10
-2.23e-06 +/-
6.64e-13
5.08e-09 +/-
6.16e-16
-1.56e-07 +/-
2.28e-12
1.13e-05 +/-
1.74e-10
5.16e-07 +/-
6.56e-13
-3.85e-06 +/-
1.94e-09
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

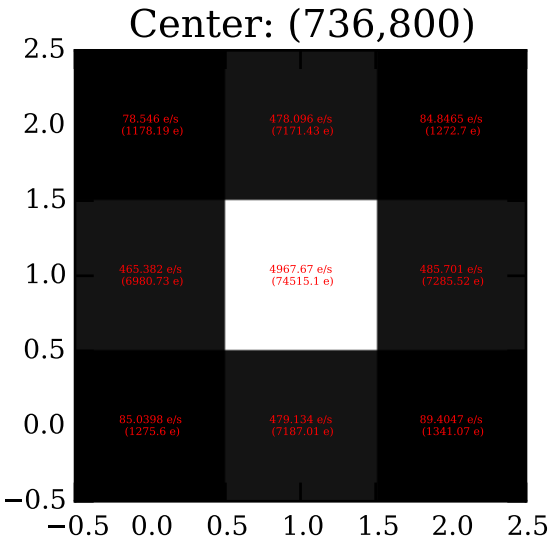

5840.45 electrons.
Position: (736,801)
Fractional NL
(after NL correction)
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

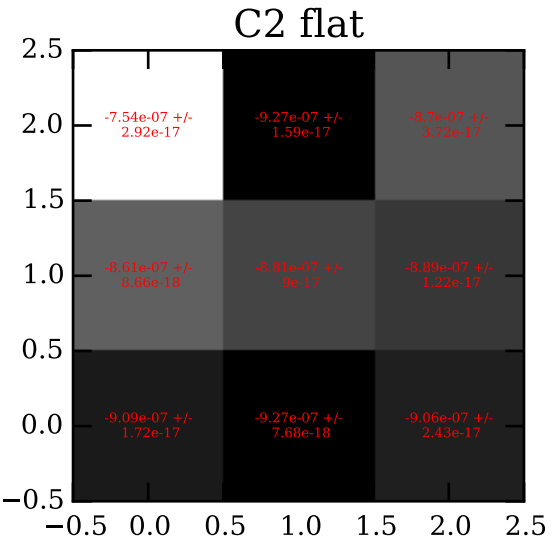

5596.51 electrons.
Position: (735,800)
Fractional NL
(after NL correction)
0.2
0.0
−0.2
−0.4
−0.6
−0.8
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

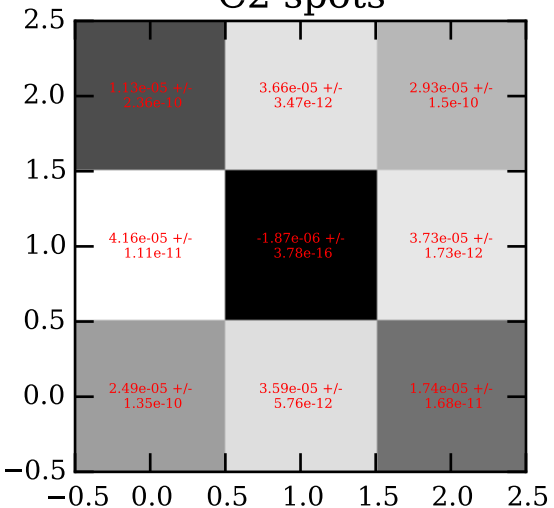

82302.1 electrons.
Position: (736,800)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
−0.10
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

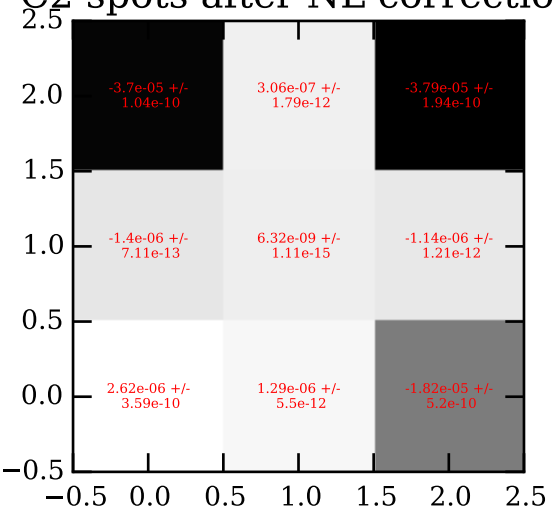

5906.6 electrons.
Position: (737,800)
Fractional NL
(after NL correction)
0.2
0.0
−0.2
−0.4
−0.6
−0.8
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

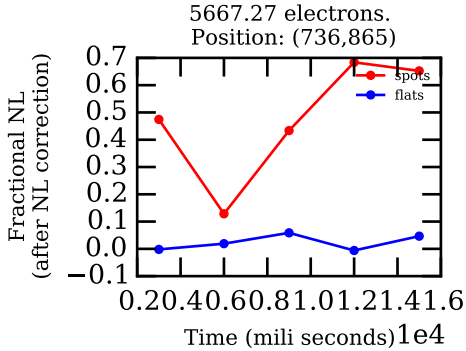

5864.95 electrons.
Position: (736,799)
Fractional NL
(after NL correction)
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds) 1e4

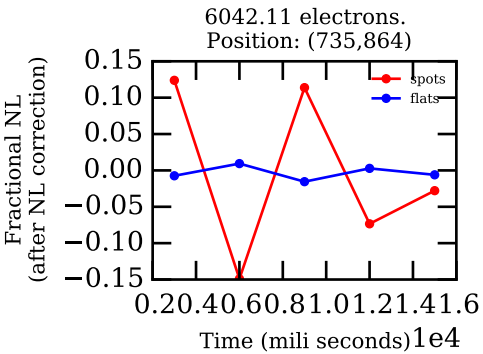

Center: (736,800)
78.546 e/s
(1178.19 e)
478.096 e/s
(7171.43 e)
84.8465 e/s
(1272.7 e)
465.382 e/s
(6980.73 e)
4967.67 e/s
(74515.1 e)
485.701 e/s
(7285.52 e)
85.0398 e/s
(1275.6 e)
479.134 e/s
(7187.01 e)
89.4047 e/s
(1341.07 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

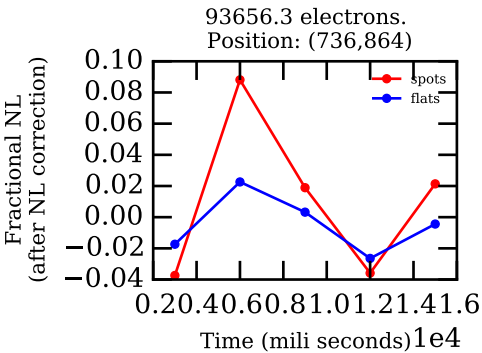

C2 flat
-7.54e-07 +/-
2.92e-17
-9.27e-07 +/-
1.59e-17
-8.61e-07 +/-
8.66e-18
-8.81e-07 +/-
9e-17
-8.89e-07 +/-
1.22e-17
-9.09e-07 +/-
1.72e-17
-9.27e-07 +/-
7.68e-18
-9.06e-07 +/-
2.43e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

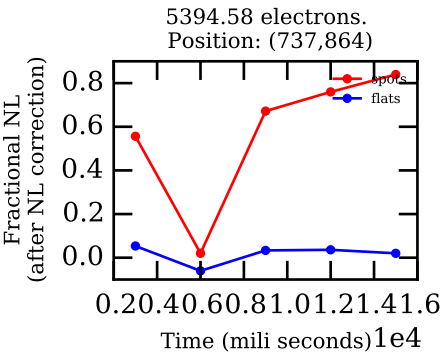

C2 spots
1.13e-05 +/-
2.38e-10
3.66e-05 +/-
3.47e-12
2.93e-05 +/-
1.5e-10
4.16e-05 +/-
1.11e-11
-1.87e-06 +/-
3.78e-16
3.73e-05 +/-
1.73e-12
2.49e-05 +/-
1.35e-10
3.59e-05 +/-
5.76e-12
1.74e-05 +/-
1.68e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

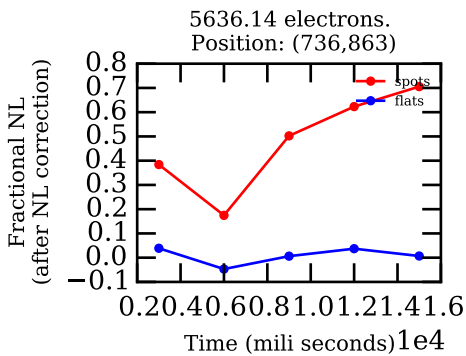

C2 spots after NL correction
-3.7e-05 +/-
1.04e-10
3.06e-07 +/-
1.79e-12
-3.79e-05 +/-
1.94e-10
-1.4e-06 +/-
7.11e-13
6.32e-09 +/-
1.11e-15
-1.14e-06 +/-
1.21e-12
2.62e-06 +/-
3.59e-10
1.29e-06 +/-
5.5e-12
-1.82e-05 +/-
5.2e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

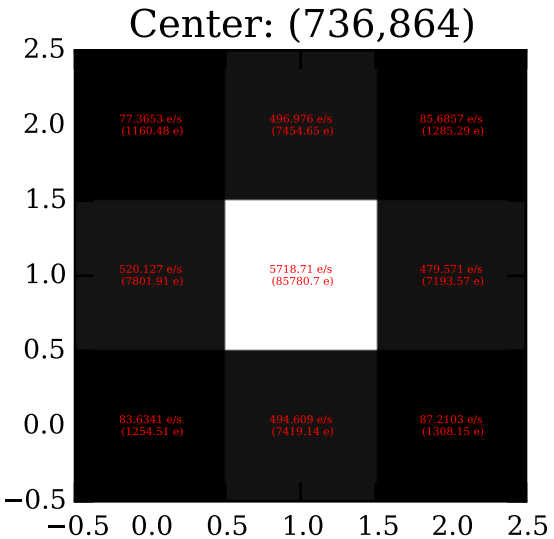

5667.27 electrons.
Position: (736,865)
Fractional NL
(after NL correction)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

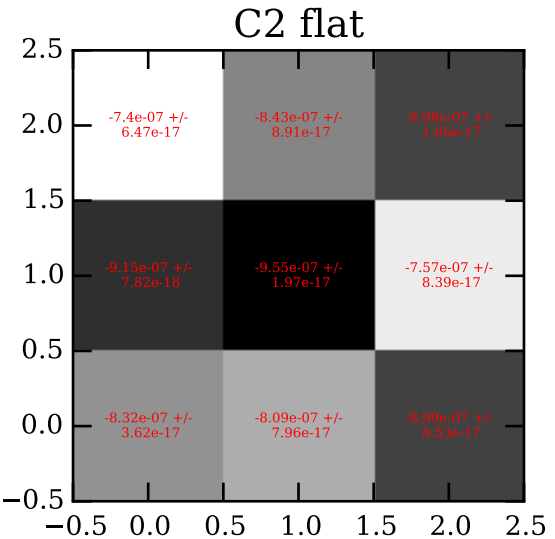

6042.11 electrons.
Position: (735,864)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

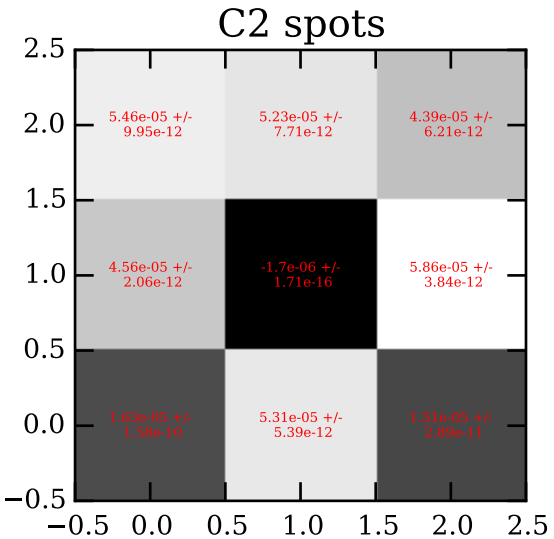

93656.3 electrons.
Position: (736,864)
Fractional NL
(after NL correction)
0.10
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

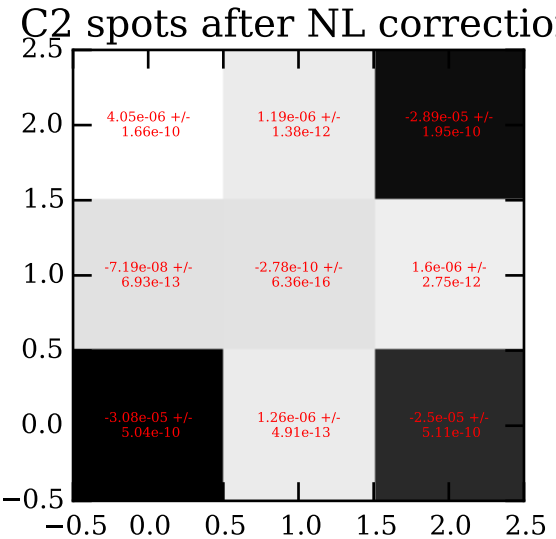

5394.58 electrons.
Position: (737,864)
Fractional NL
(after NL correction)
0.8
0.6
0.4
0.2
0.0
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

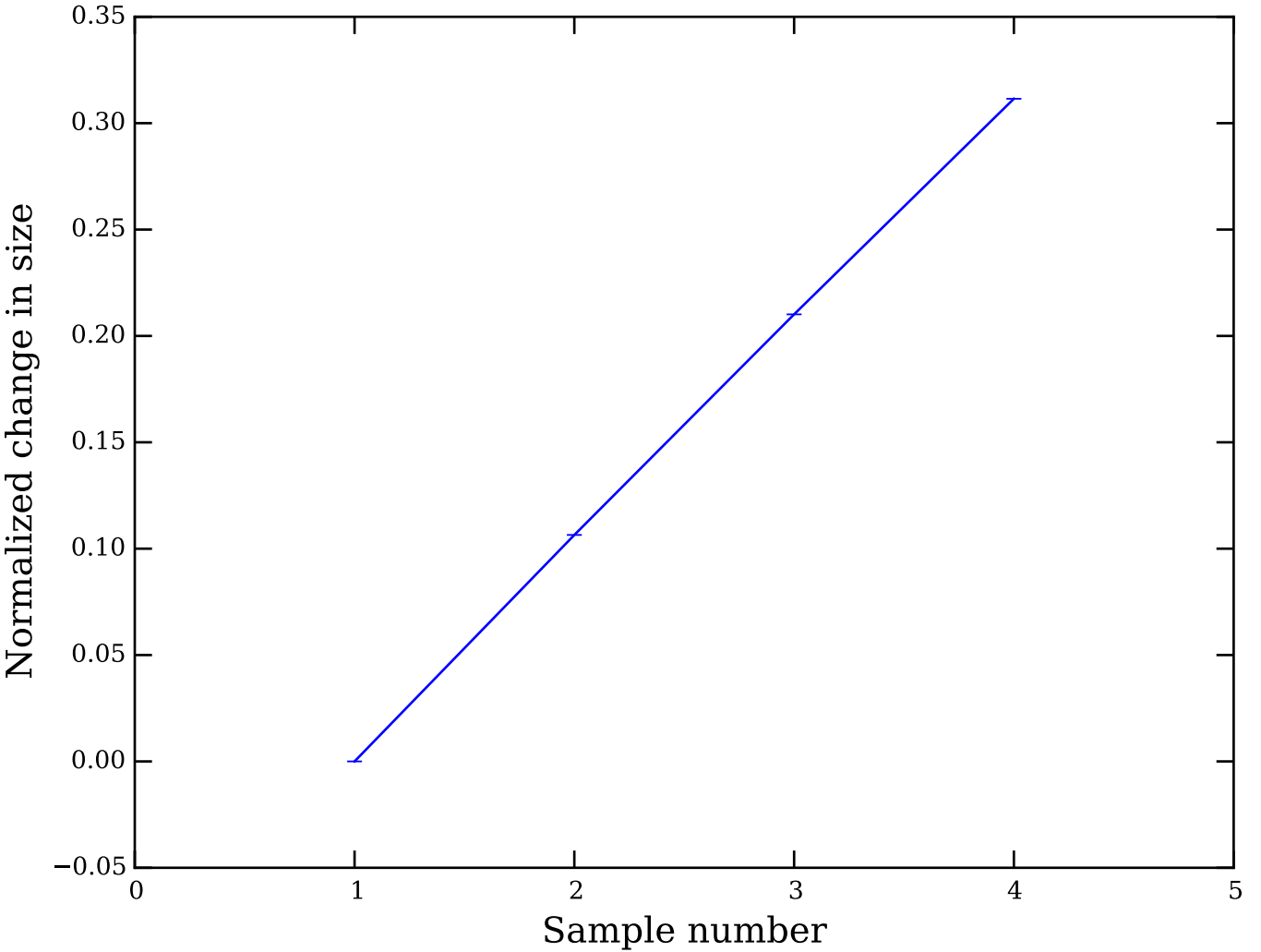

5636.14 electrons.
Position: (736,863)
Fractional NL
(after NL correction)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

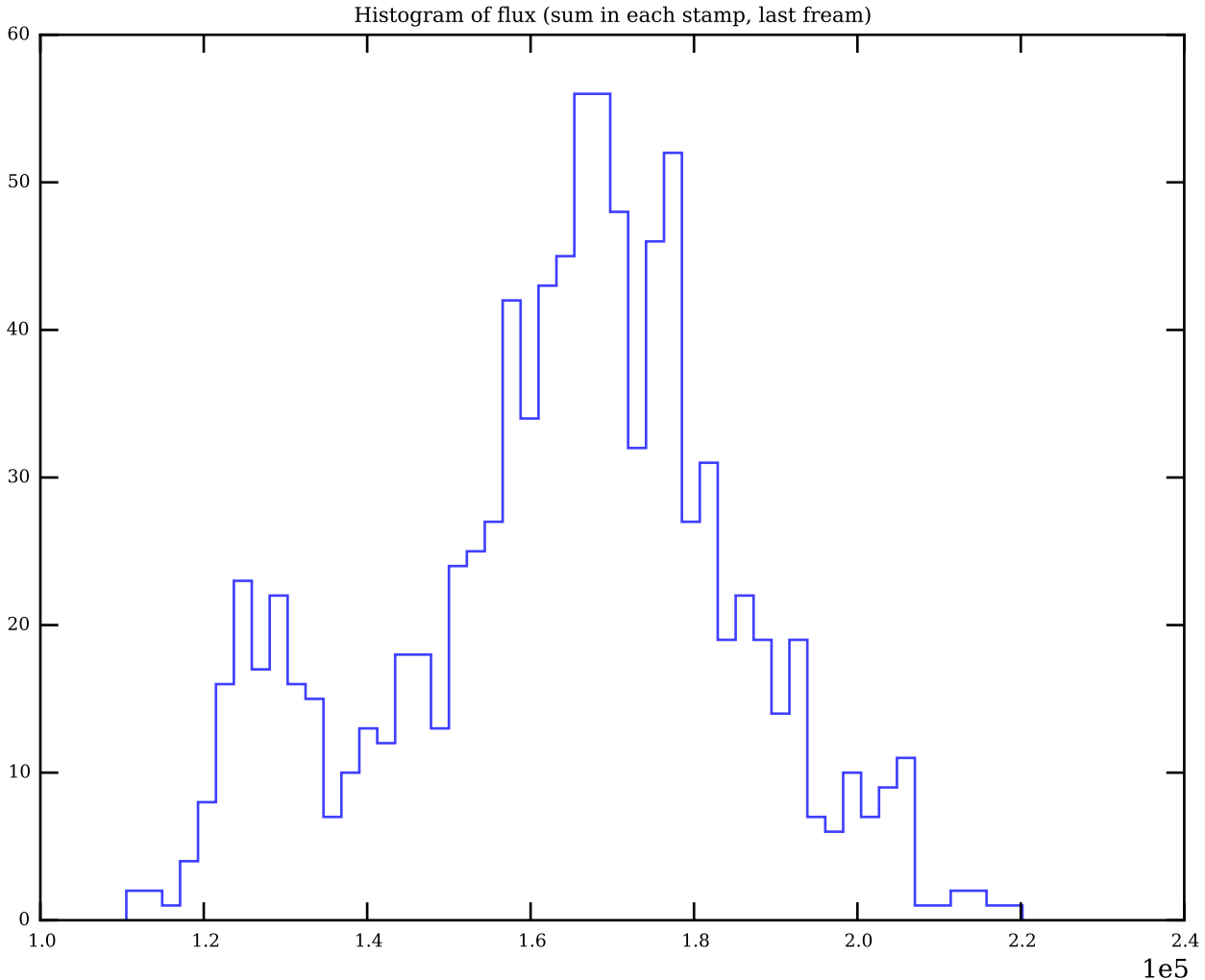

Center: (736,864)
77.3653 e/s
(1160.48 e)
496.976 e/s
(7454.65 e)
85.6857 e/s
(1285.29 e)
520.127 e/s
(7801.91 e)
5718.71 e/s
(85780.7 e)
479.571 e/s
(7193.57 e)
83.6341 e/s
(1254.51 e)
494.609 e/s
(7419.14 e)
87.2103 e/s
(1308.15 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

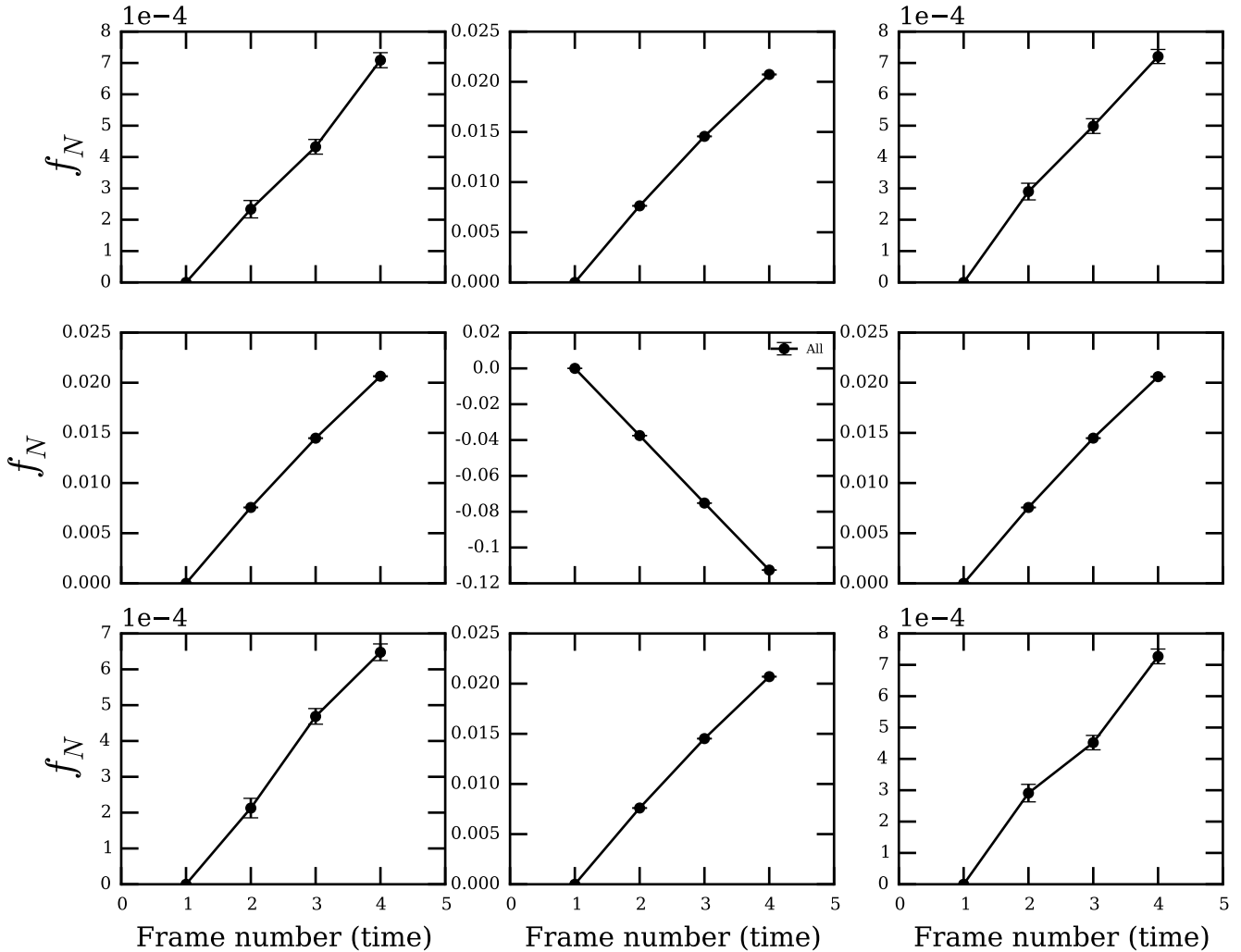

C2 flat
-7.4e-07 +/-
6.47e-17
-8.43e-07 +/-
8.91e-17
-8.98e-07 +/-
1.66e-17
-9.15e-07 +/-
7.82e-18
-9.55e-07 +/-
1.97e-17
-7.57e-07 +/-
8.39e-17
-8.32e-07 +/-
3.62e-17
-8.09e-07 +/-
7.96e-17
-8.99e-07 +/-
8.53e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

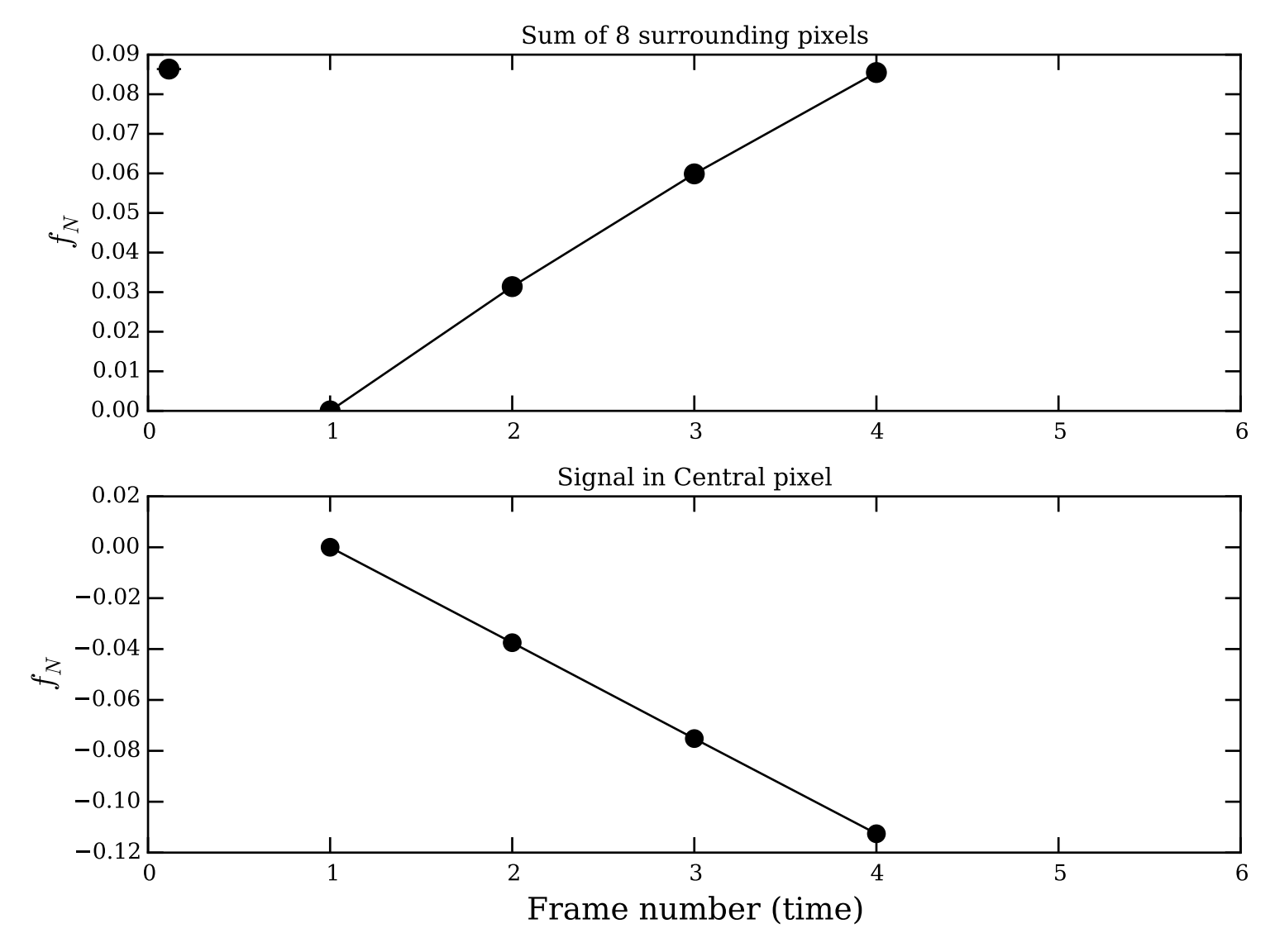

C2 spots
5.46e-05 +/-
9.95e-12
5.23e-05 +/-
7.71e-12
4.39e-05 +/-
6.21e-12
4.56e-05 +/-
2.06e-12
-1.7e-06 +/-
1.71e-16
5.86e-05 +/-
3.84e-12
1.63e-05 +/-
1.58e-10
5.31e-05 +/-
5.39e-12
1.31e-05 +/-
2.89e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

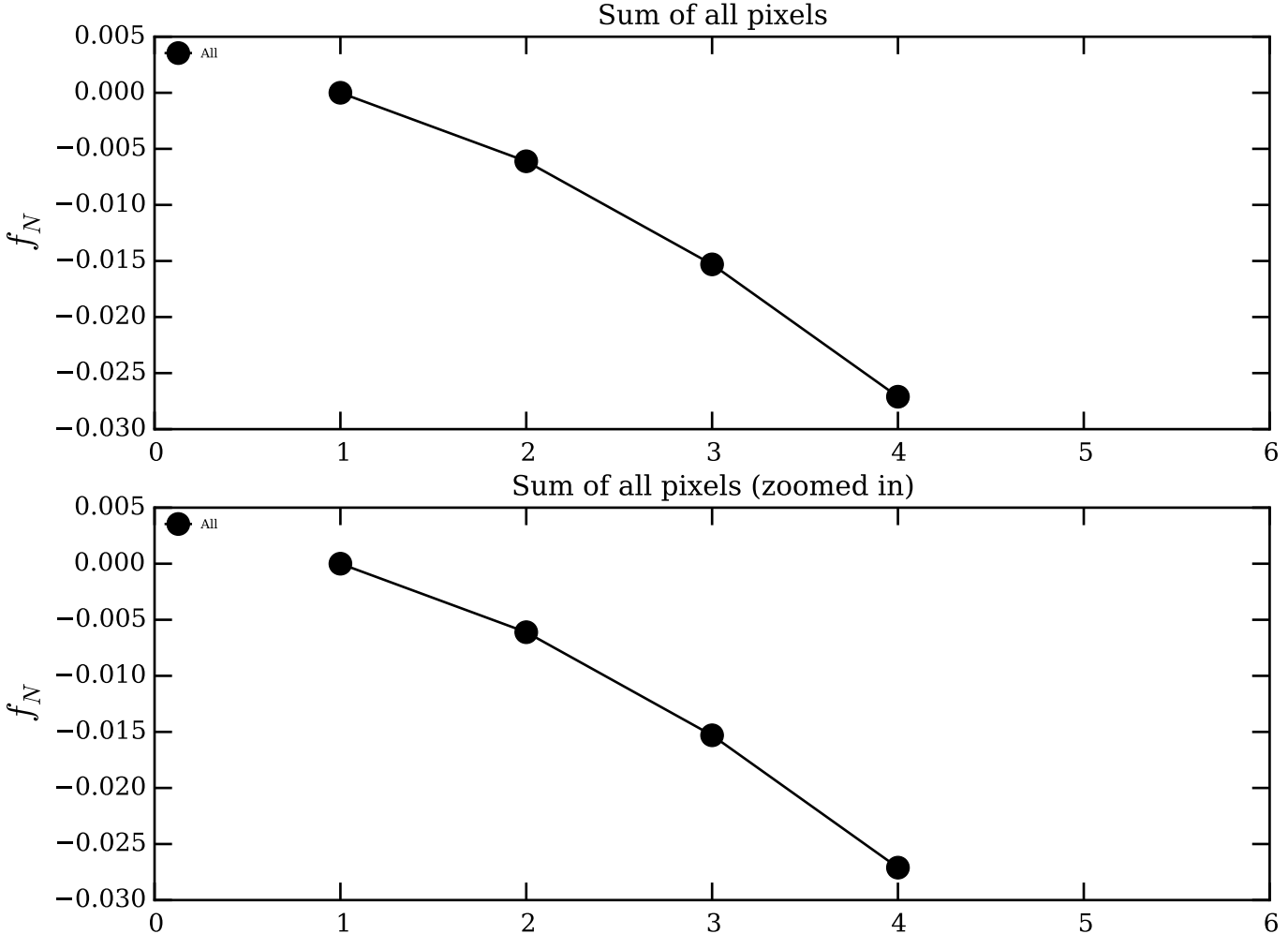

C2 spots after NL correction
4.05e-06 +/-
1.66e-10
1.19e-06 +/-
1.38e-12
-2.89e-05 +/-
1.95e-10
-7.19e-08 +/-
6.93e-13
-2.78e-10 +/-
6.36e-16
1.6e-06 +/-
2.75e-12
-3.08e-05 +/-
5.04e-10
1.26e-06 +/-
4.91e-13
-2.5e-05 +/-
5.11e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5


0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
Normalized change in size
0
1
2
3
4
5
Sample number


Histogram of flux (sum in each stamp, last fream)
60
50
40
30
20
10
0
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
1e5


1e−4
f_N
All
Frame number (time)


Sum of 8 surrounding pixels
f_N
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
0
1
2
3
4
5
6
Signal in Central pixel
f_N
0.02
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
0
1
2
3
4
5
6
Frame number (time)


Sum of all pixels
All
0.005
0.000
−0.005
−0.010
−0.015
−0.020
−0.025
−0.030
f_N
0
1
2
3
4
5
6
Sum of all pixels (zoomed in)
All
0.005
0.000
−0.005
−0.010
−0.015
−0.020
−0.025
−0.030
f_N
0
1
2
3
4
5
6