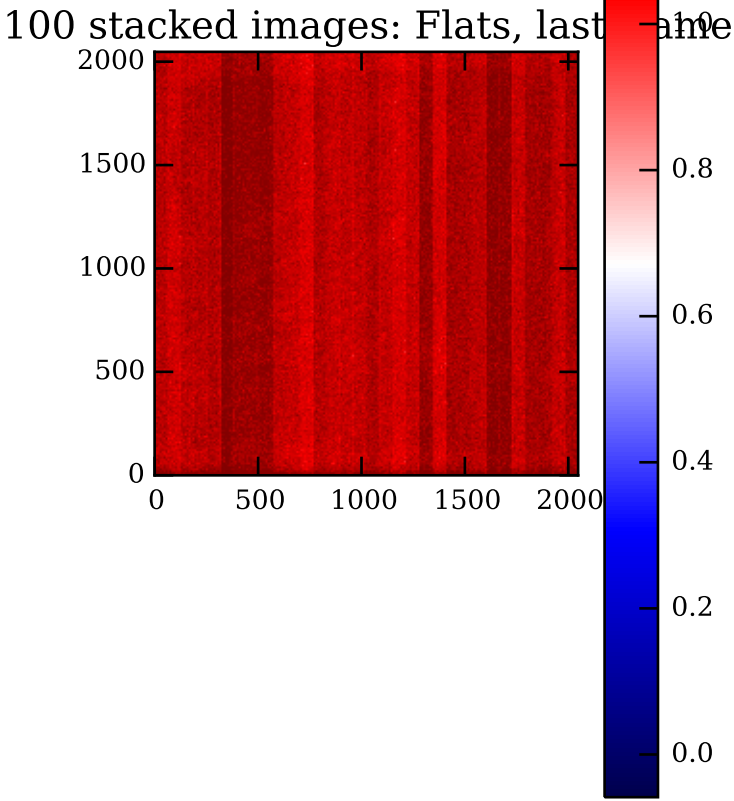
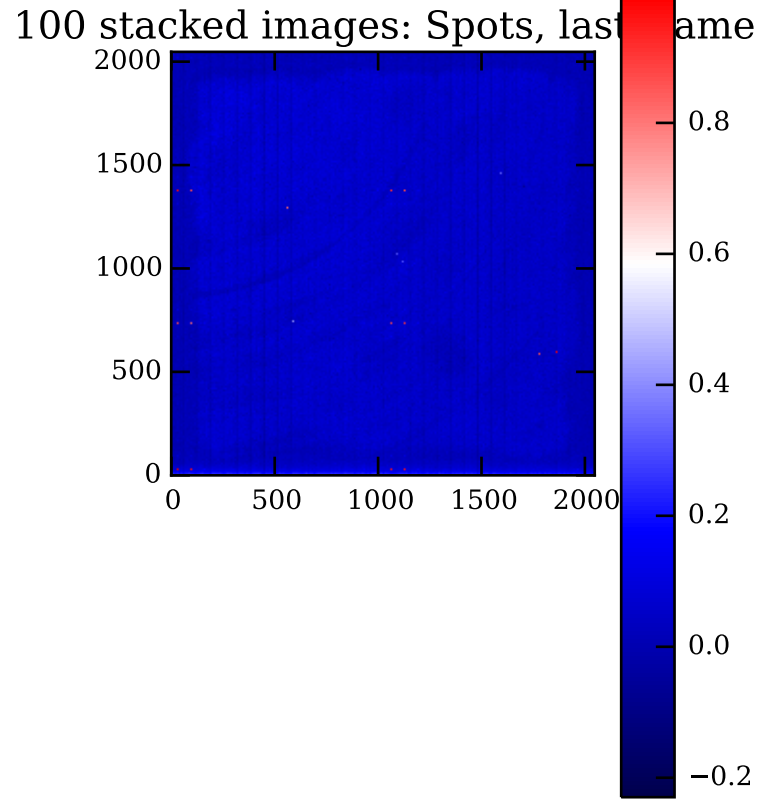
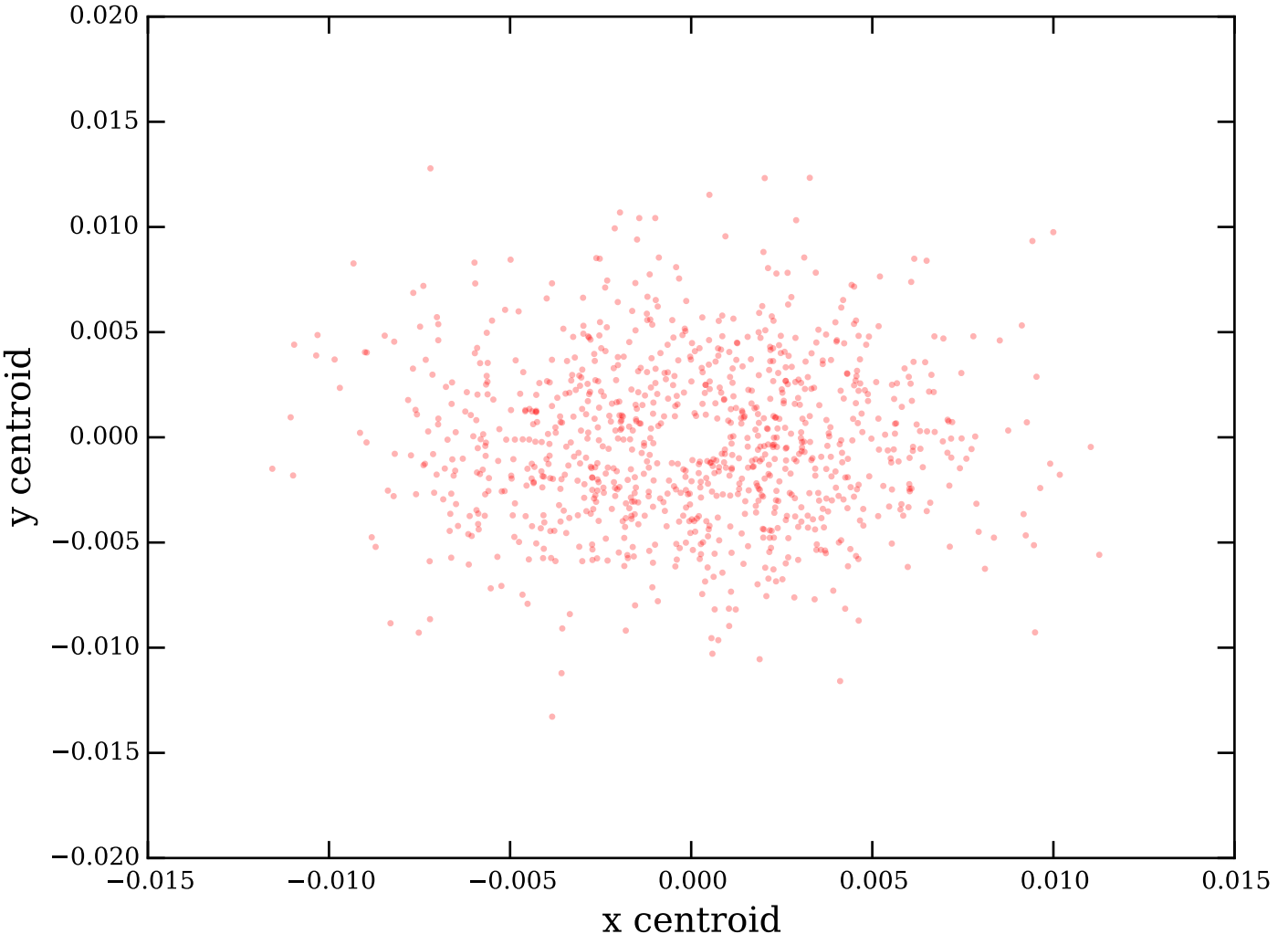
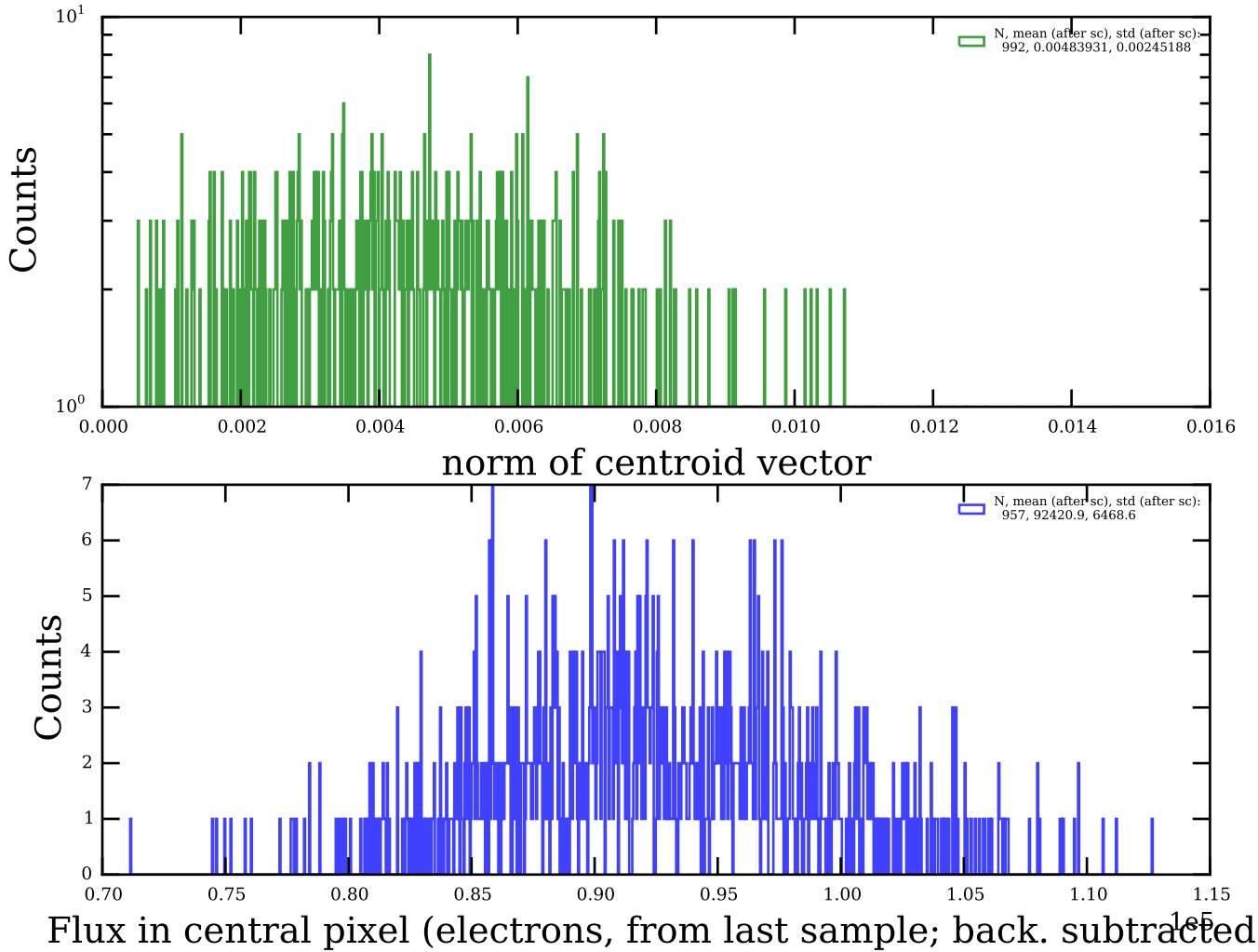
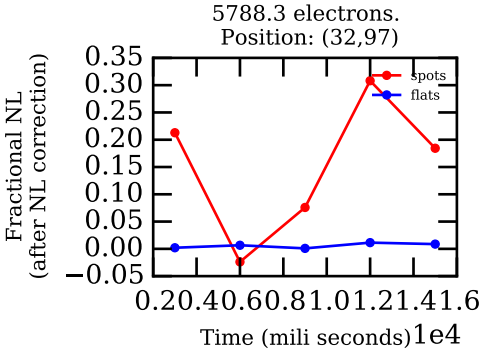
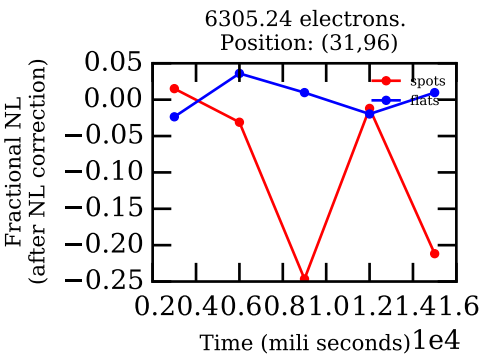

100 stacked images: Flats, last frame
1e5
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2000
1500
1000
500
0
0
500
1000
1500
2000

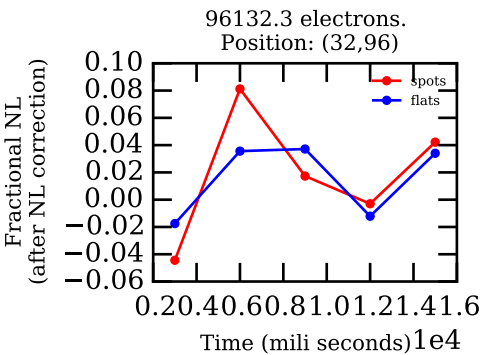

100 stacked images: Spots, last frame
1e5
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
2000
1500
1000
500
0
0
500
1000
1500
2000

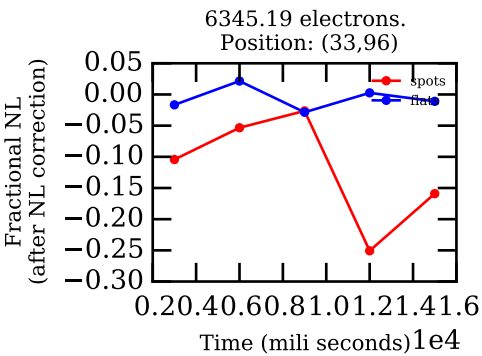

0.020
0.015
0.010
0.005
0.000
−0.005
−0.010
−0.015
−0.020
y centroid
−0.015
−0.010
−0.005
0.000
0.005
0.010
0.015
x centroid

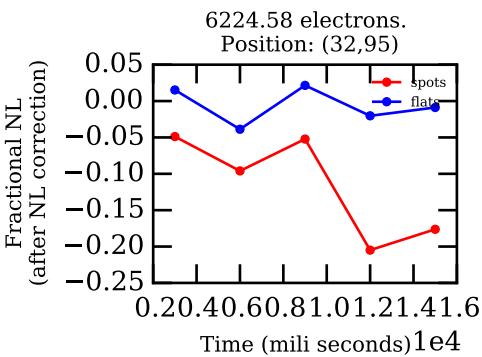

N, mean (after sc), std (after sc):
992, 0.00483931, 0.00245188
Counts
norm of centroid vector
N, mean (after sc), std (after sc):
957, 92420.9, 6468.6
Counts
Flux in central pixel (electrons, from last sample; back. subtracted)
1e5

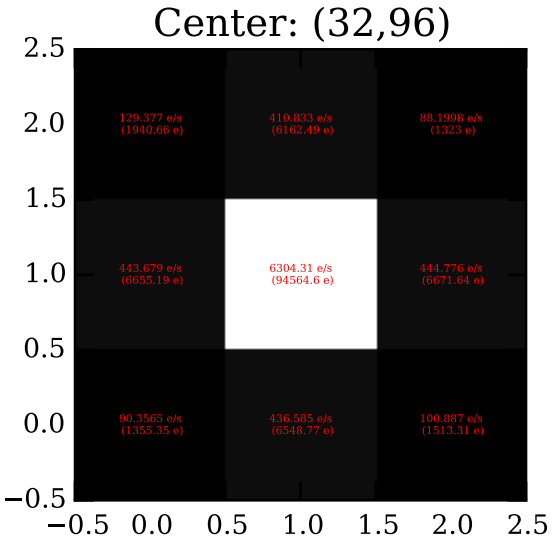

5788.3 electrons.
Position: (32,97)
Fractional NL
(after NL correction)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

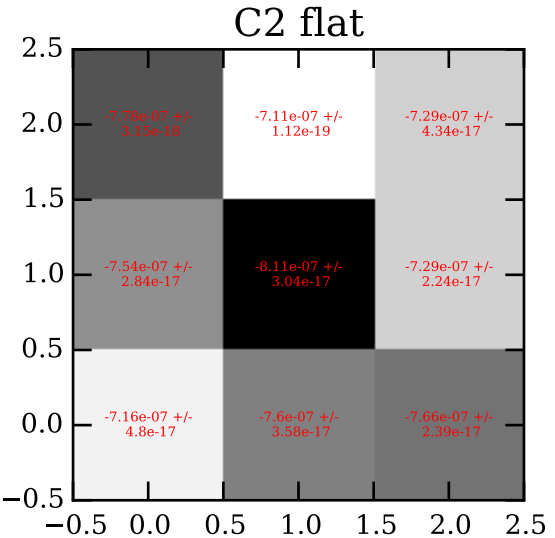

6305.24 electrons.
Position: (31,96)
Fractional NL
(after NL correction)
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

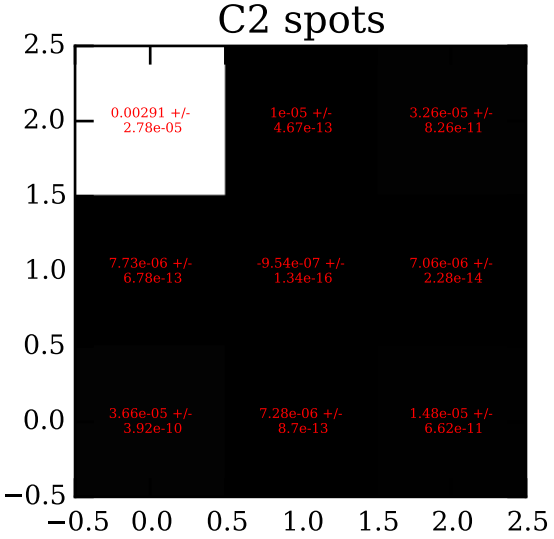

96132.3 electrons.
Position: (32,96)
Fractional NL
(after NL correction)
0.10
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

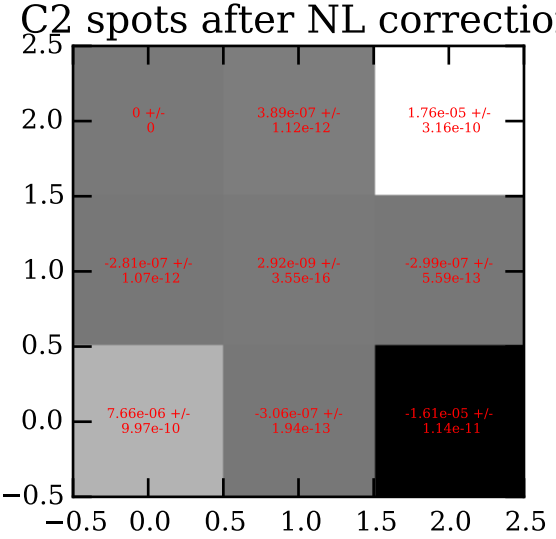

6345.19 electrons.
Position: (33,96)
Fractional NL
(after NL correction)
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

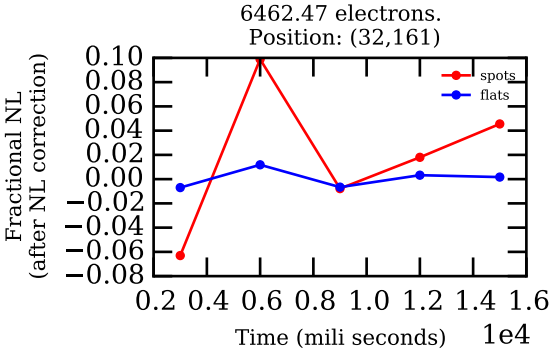

6224.58 electrons.
Position: (32,95)
Fractional NL
(after NL correction)
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

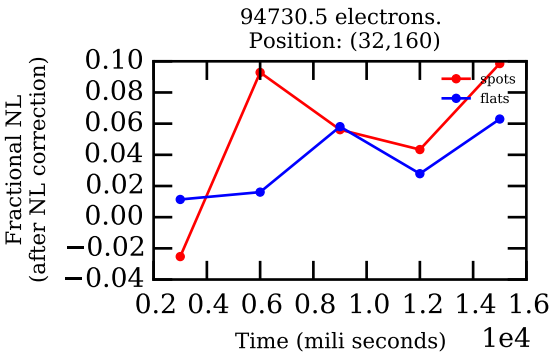

Center: (32,96)
129.377 e/s
(1940.66 e)
410.833 e/s
(6162.49 e)
88.1998 e/s
(1323 e)
443.679 e/s
(6655.19 e)
6304.31 e/s
(94564.6 e)
444.776 e/s
(6671.64 e)
90.3565 e/s
(1355.35 e)
436.585 e/s
(6548.77 e)
100.887 e/s
(1513.31 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

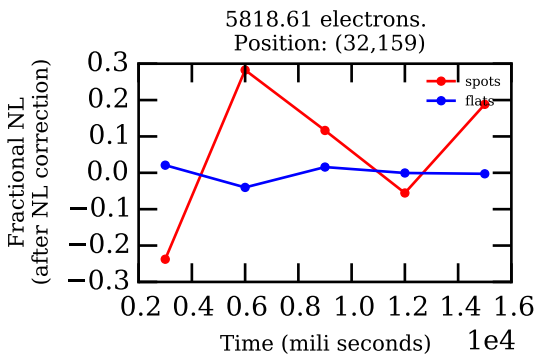

C2 flat
-7.78e-07 +/-
3.13e-19
-7.11e-07 +/-
1.12e-19
-7.29e-07 +/-
4.34e-17
-7.54e-07 +/-
2.84e-17
-8.11e-07 +/-
3.04e-17
-7.29e-07 +/-
2.24e-17
-7.16e-07 +/-
4.8e-17
-7.6e-07 +/-
3.58e-17
-7.66e-07 +/-
2.39e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

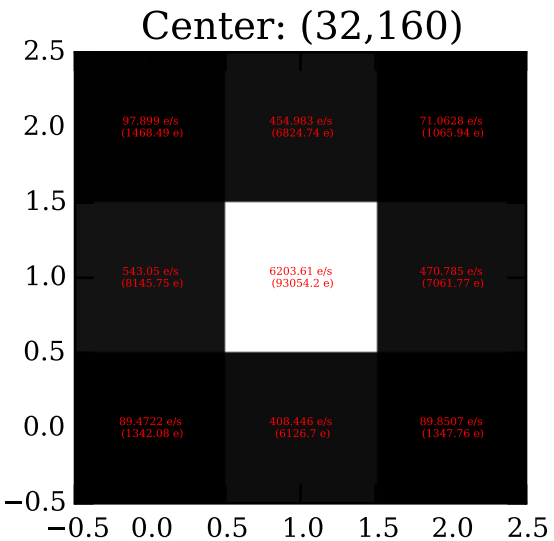

C2 spots
0.00291 +/-
2.78e-05
1e-05 +/-
4.67e-13
3.26e-05 +/-
8.26e-11
7.73e-06 +/-
6.78e-13
-9.54e-07 +/-
1.34e-16
7.06e-06 +/-
2.28e-14
3.66e-05 +/-
3.92e-10
7.28e-06 +/-
8.7e-13
1.48e-05 +/-
6.62e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

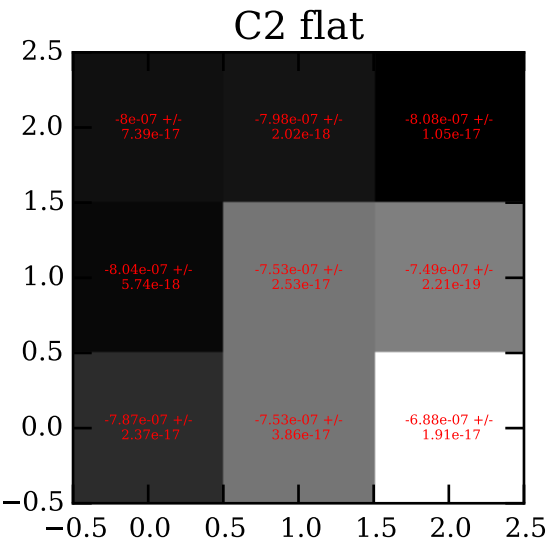

C2 spots after NL correction
0 +/-
0
3.89e-07 +/-
1.12e-12
1.76e-05 +/-
3.16e-10
-2.81e-07 +/-
1.07e-12
2.92e-09 +/-
3.55e-16
-2.99e-07 +/-
5.59e-13
7.66e-06 +/-
9.97e-10
-3.06e-07 +/-
1.94e-13
-1.61e-05 +/-
1.14e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

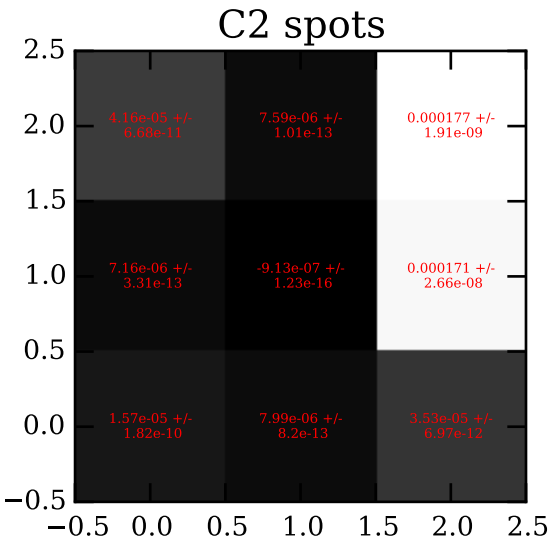

6462.47 electrons.
Position: (32,161)
Fractional NL
(after NL correction)
0.10
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
−0.08
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

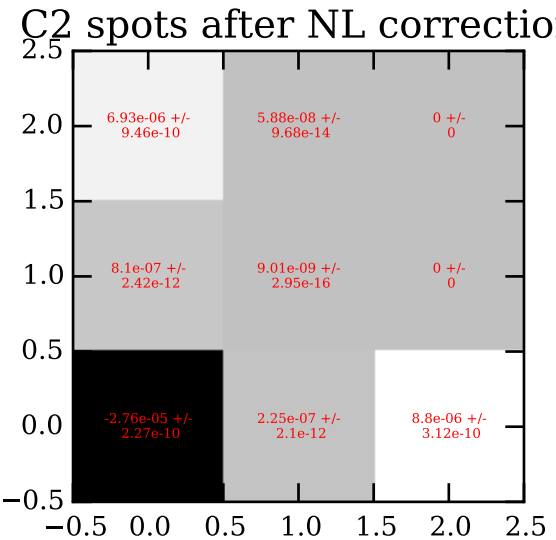

94730.5 electrons.
Position: (32,160)
Fractional NL
(after NL correction)
0.10
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

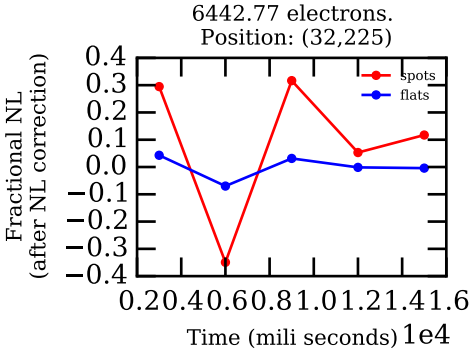

5818.61 electrons.
Position: (32,159)
Fractional NL
(after NL correction)
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

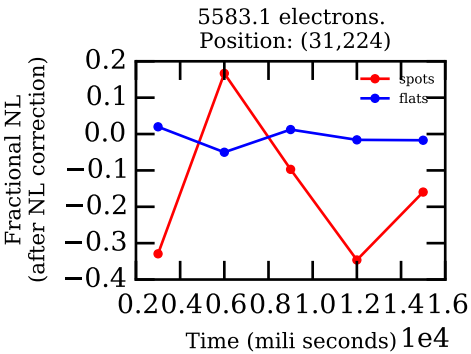

Center: (32,160)
97.899 e/s
(1468.49 e)
454.983 e/s
(6824.74 e)
71.0628 e/s
(1065.94 e)
543.05 e/s
(8145.75 e)
6203.61 e/s
(93054.2 e)
470.785 e/s
(7061.77 e)
89.4722 e/s
(1342.08 e)
408.446 e/s
(6126.7 e)
89.8507 e/s
(1347.76 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

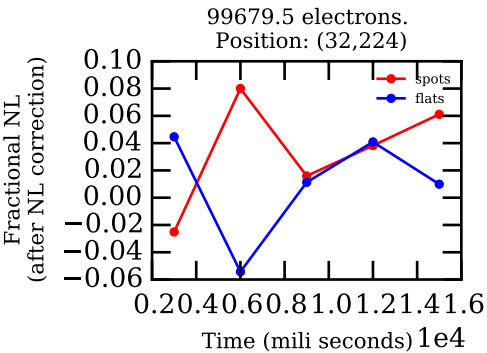

C2 flat
-8e-07 +/-
7.39e-17
-7.98e-07 +/-
2.02e-18
-8.08e-07 +/-
1.05e-17
-8.04e-07 +/-
5.74e-18
-7.53e-07 +/-
2.53e-17
-7.49e-07 +/-
2.21e-19
-7.87e-07 +/-
2.37e-17
-7.53e-07 +/-
3.86e-17
-6.88e-07 +/-
1.91e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

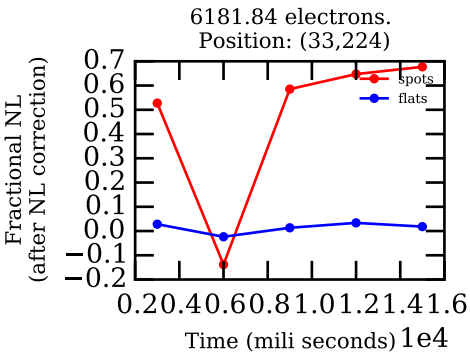

C2 spots
4.16e-05 +/-
6.68e-11
7.59e-06 +/-
1.01e-13
0.000177 +/-
1.91e-09
7.16e-06 +/-
3.31e-13
-9.13e-07 +/-
1.23e-16
0.000171 +/-
2.66e-08
1.57e-05 +/-
1.82e-10
7.99e-06 +/-
8.2e-13
3.53e-05 +/-
6.97e-12
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

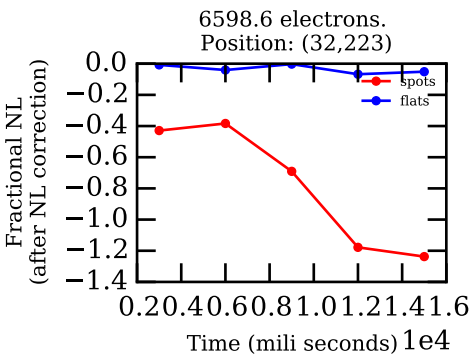

C2 spots after NL correction
6.93e-06 +/-
9.46e-10
5.88e-08 +/-
9.68e-14
0 +/-
0
8.1e-07 +/-
2.42e-12
9.01e-09 +/-
2.95e-16
0 +/-
0
-2.76e-05 +/-
2.27e-10
2.25e-07 +/-
2.1e-12
8.8e-06 +/-
3.12e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

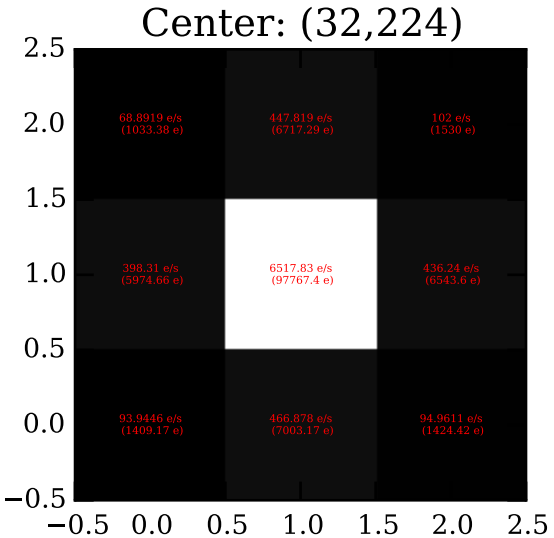

6442.77 electrons.
Position: (32,225)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

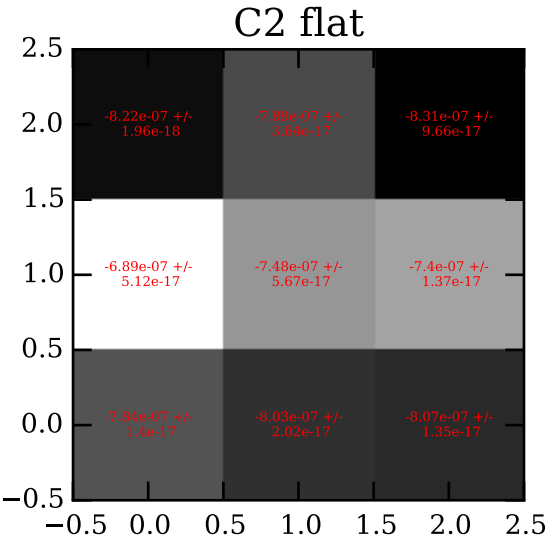

5583.1 electrons.
Position: (31,224)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

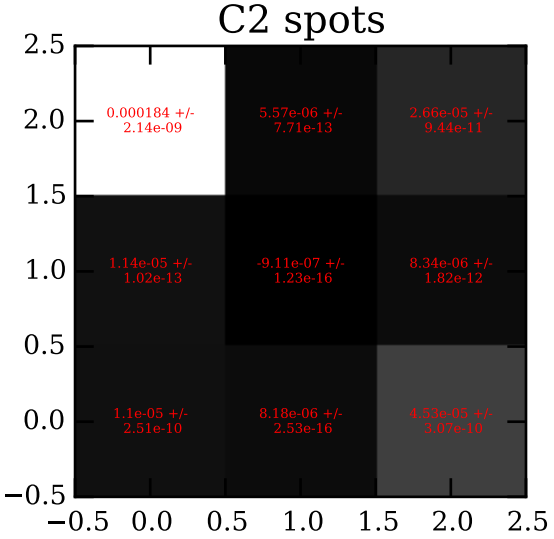

99679.5 electrons.
Position: (32,224)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

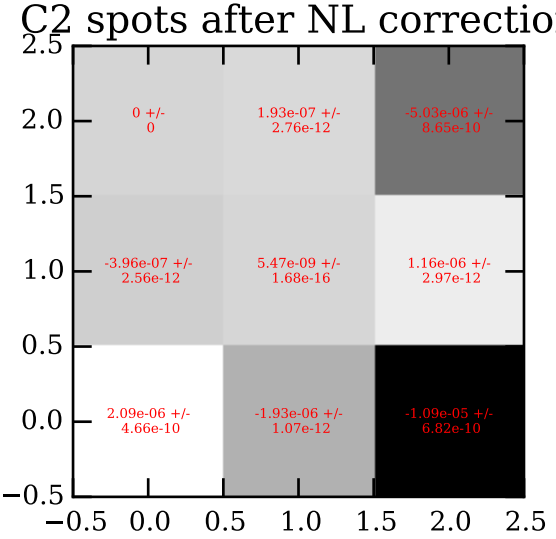

6181.84 electrons.
Position: (33,224)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

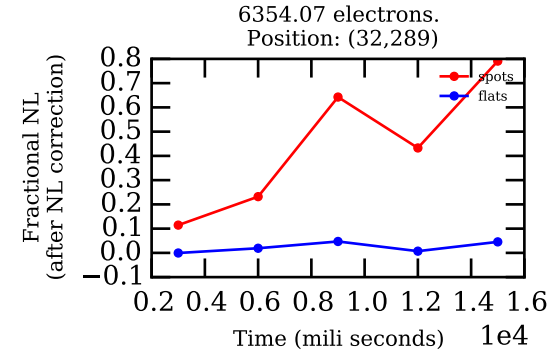

6598.6 electrons.
Position: (32,223)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

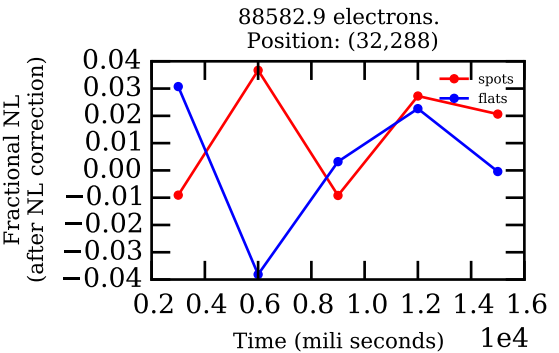

Center: (32,224)
68.8919 e/s
(1033.38 e)
447.819 e/s
(6717.29 e)
102 e/s
(1530 e)
398.31 e/s
(5974.66 e)
6517.83 e/s
(97767.4 e)
436.24 e/s
(6543.6 e)
93.9446 e/s
(1409.17 e)
466.878 e/s
(7003.17 e)
94.9611 e/s
(1424.42 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

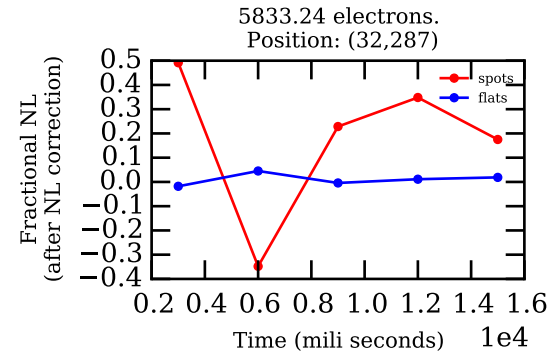

C2 flat
-8.22e-07 +/-
1.96e-18
-7.89e-07 +/-
3.64e-17
-8.31e-07 +/-
9.66e-17
-6.89e-07 +/-
5.12e-17
-7.48e-07 +/-
5.67e-17
-7.4e-07 +/-
1.37e-17
-8.03e-07 +/-
2.02e-17
-8.07e-07 +/-
1.35e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

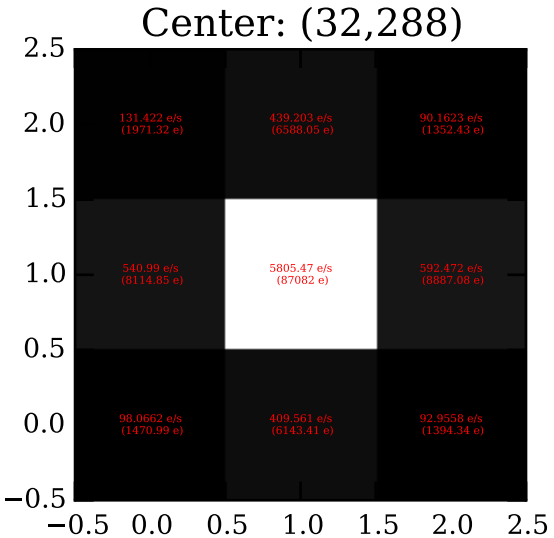

C2 spots
0.000184 +/-
2.14e-09
5.57e-06 +/-
7.71e-13
2.66e-05 +/-
9.44e-11
1.14e-05 +/-
1.02e-13
-9.11e-07 +/-
1.23e-16
8.34e-06 +/-
1.82e-12
1.1e-05 +/-
2.51e-10
8.18e-06 +/-
2.53e-16
4.53e-05 +/-
3.07e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

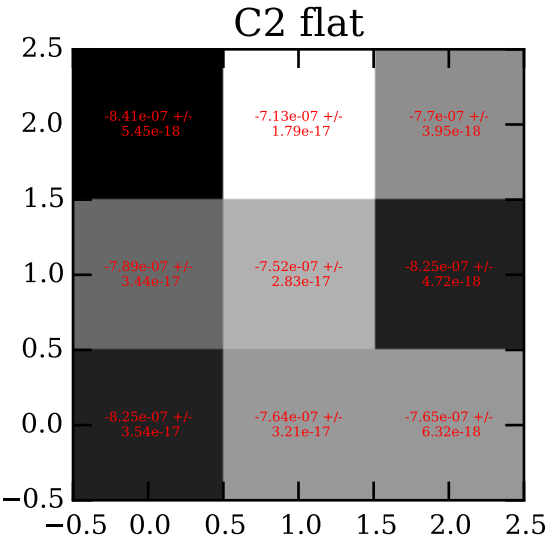

C2 spots after NL correction
0 +/-
0
1.93e-07 +/-
2.76e-12
-5.03e-06 +/-
8.65e-10
-3.96e-07 +/-
2.56e-12
5.47e-09 +/-
1.68e-16
1.16e-06 +/-
2.97e-12
2.09e-06 +/-
4.66e-10
-1.93e-06 +/-
1.07e-12
-1.09e-05 +/-
6.82e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

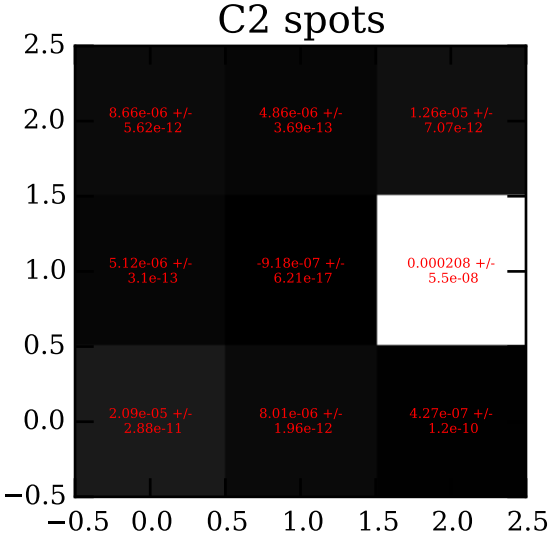

6354.07 electrons.
Position: (32,289)
Fractional NL
(after NL correction)
spots
flats
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

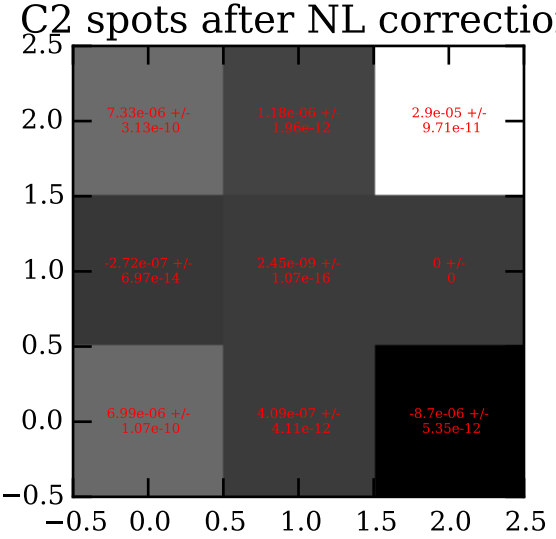

88582.9 electrons.
Position: (32,288)
Fractional NL
(after NL correction)
spots
flats
0.04
0.03
0.02
0.01
0.00
−0.01
−0.02
−0.03
−0.04
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

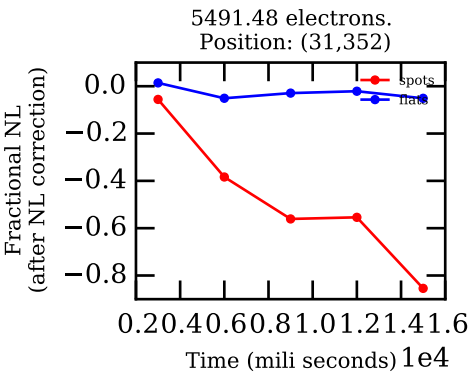

5833.24 electrons.
Position: (32,287)
Fractional NL
(after NL correction)
spots
flats
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

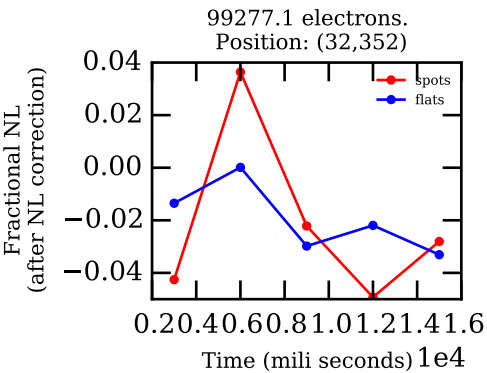

Center: (32,288)
131.422 e/s
(1971.32 e)
439.203 e/s
(6588.05 e)
90.1623 e/s
(1352.43 e)
540.99 e/s
(8114.85 e)
5805.47 e/s
(87082 e)
592.472 e/s
(8887.08 e)
98.0662 e/s
(1470.99 e)
409.561 e/s
(6143.41 e)
92.9558 e/s
(1394.34 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

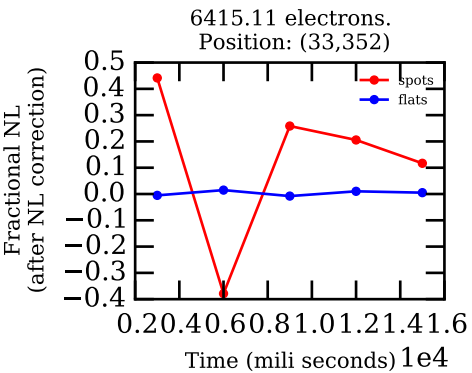

C2 flat
-8.41e-07 +/-
5.45e-18
-7.13e-07 +/-
1.79e-17
-7.7e-07 +/-
3.95e-18
-7.89e-07 +/-
3.44e-17
-7.52e-07 +/-
2.83e-17
-8.25e-07 +/-
4.72e-18
-8.25e-07 +/-
3.54e-17
-7.64e-07 +/-
3.21e-17
-7.65e-07 +/-
6.32e-18
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

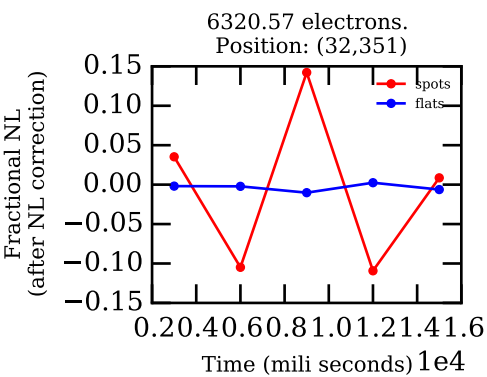

C2 spots
8.66e-06 +/-
5.62e-12
4.86e-06 +/-
3.69e-13
1.26e-05 +/-
7.07e-12
5.12e-06 +/-
3.1e-13
-9.18e-07 +/-
6.21e-17
0.000208 +/-
5.5e-08
2.09e-05 +/-
2.88e-11
8.01e-06 +/-
1.96e-12
4.27e-07 +/-
1.2e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

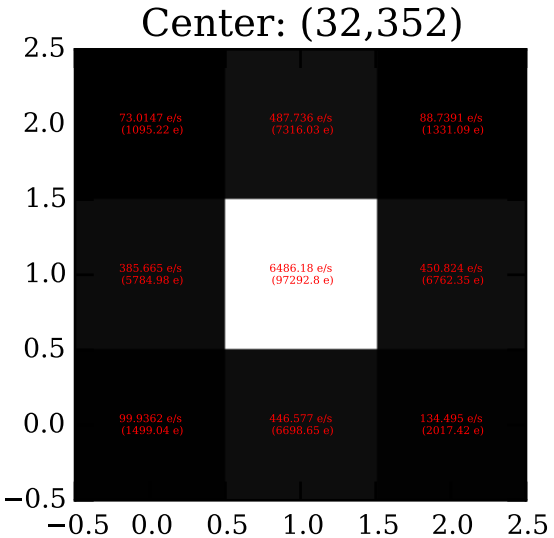

C2 spots after NL correction
7.33e-06 +/-
3.13e-10
1.18e-06 +/-
1.96e-12
2.9e-05 +/-
9.71e-11
-2.72e-07 +/-
6.97e-14
2.45e-09 +/-
1.07e-16
0 +/-
0
6.99e-06 +/-
1.07e-10
4.09e-07 +/-
4.11e-12
-8.7e-06 +/-
5.35e-12
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

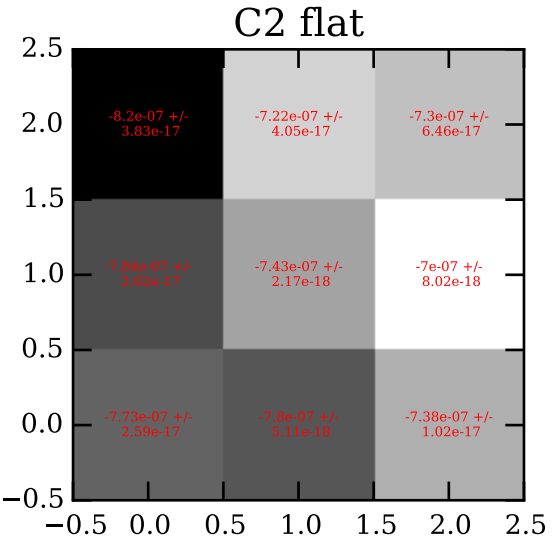

5491.48 electrons.
Position: (31,352)
Fractional NL
(after NL correction)
0.0
−0.2
−0.4
−0.6
−0.8
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

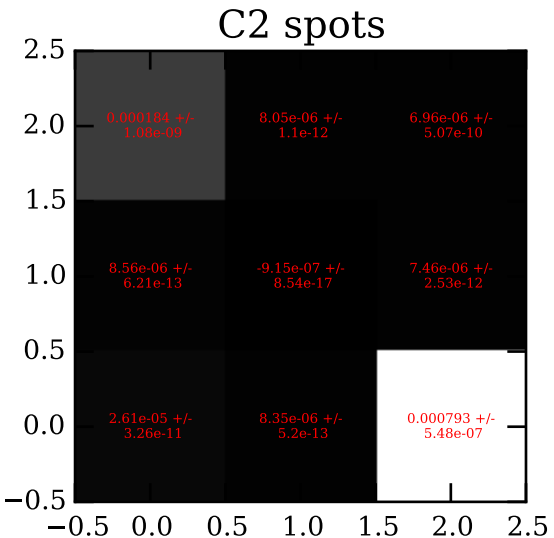

99277.1 electrons.
Position: (32,352)
Fractional NL
(after NL correction)
0.04
0.02
0.00
−0.02
−0.04
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

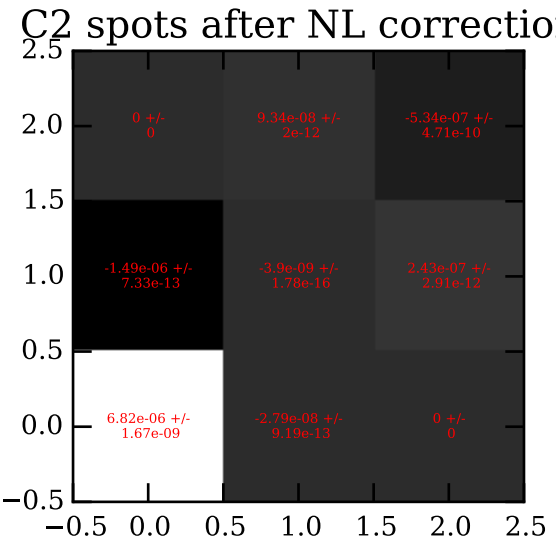

6415.11 electrons.
Position: (33,352)
Fractional NL
(after NL correction)
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
−0.4
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

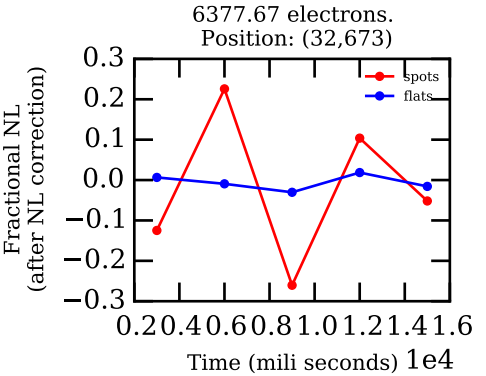

6320.57 electrons.
Position: (32,351)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

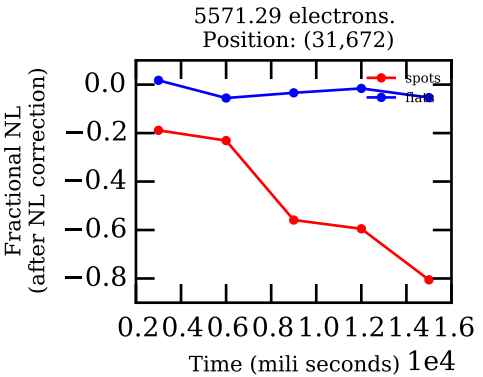

Center: (32,352)
73.0147 e/s
(1095.22 e)
487.736 e/s
(7316.03 e)
88.7391 e/s
(1331.09 e)
385.665 e/s
(5784.98 e)
6486.18 e/s
(97292.8 e)
450.824 e/s
(6762.35 e)
99.9362 e/s
(1499.04 e)
446.577 e/s
(6698.65 e)
134.495 e/s
(2017.42 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

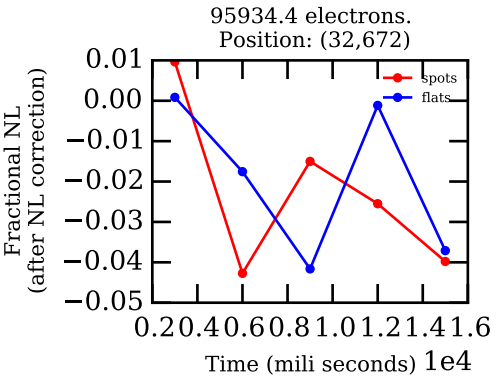

C2 flat
-8.2e-07 +/-
3.83e-17
-7.22e-07 +/-
4.05e-17
-7.3e-07 +/-
6.46e-17
-7.84e-07 +/-
2.62e-17
-7.43e-07 +/-
2.17e-18
-7e-07 +/-
8.02e-18
-7.73e-07 +/-
2.59e-17
-7.38e-07 +/-
1.02e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

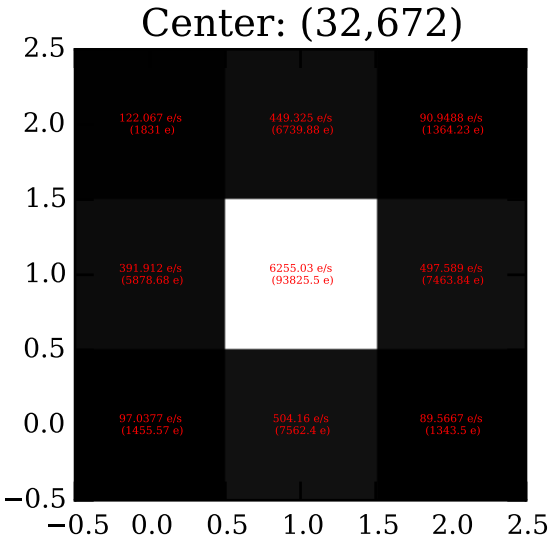

C2 spots
0.000184 +/-
1.08e-09
8.05e-06 +/-
1.1e-12
6.96e-06 +/-
5.07e-10
8.56e-06 +/-
6.21e-13
-9.15e-07 +/-
8.54e-17
7.46e-06 +/-
2.53e-12
2.61e-05 +/-
3.26e-11
8.35e-06 +/-
5.2e-13
0.000793 +/-
5.48e-07
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

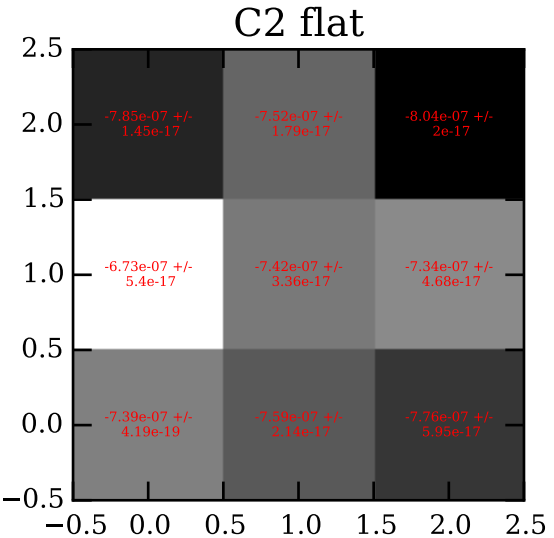

C2 spots after NL correction
0 +/-
0
9.34e-08 +/-
2e-12
-5.34e-07 +/-
4.71e-10
-1.49e-06 +/-
7.33e-13
-3.9e-09 +/-
1.78e-16
2.43e-07 +/-
2.91e-12
6.82e-06 +/-
1.67e-09
-2.79e-08 +/-
9.19e-13
0 +/-
0
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

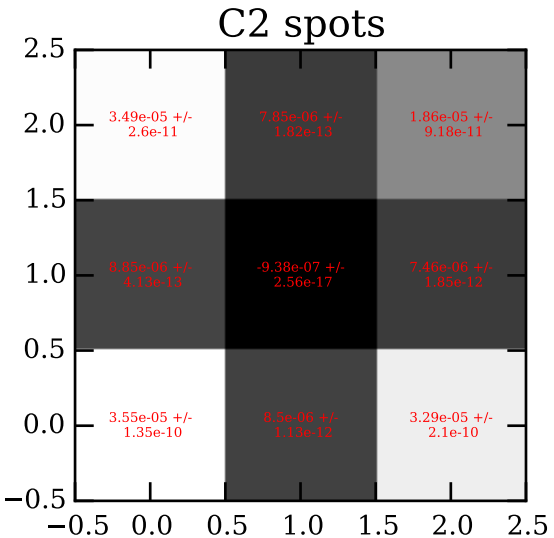

6377.67 electrons.
Position: (32,673)
Fractional NL
(after NL correction)
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

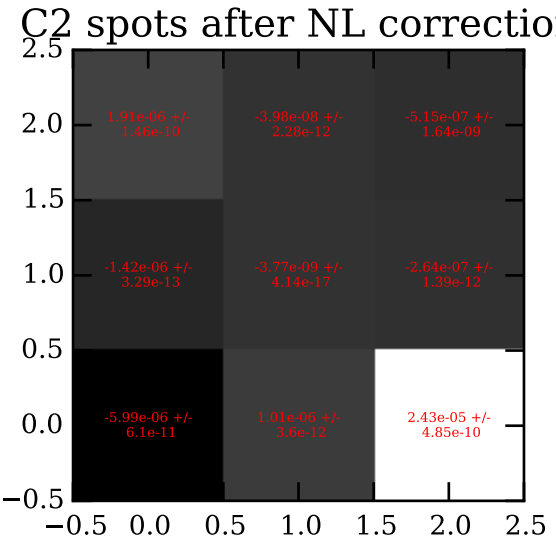

5571.29 electrons.
Position: (31,672)
Fractional NL
(after NL correction)
0.0
−0.2
−0.4
−0.6
−0.8
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

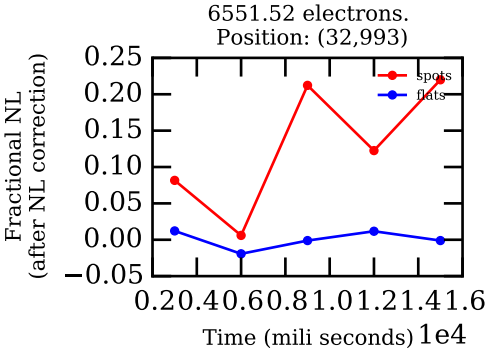

95934.4 electrons.
Position: (32,672)
Fractional NL
(after NL correction)
0.01
0.00
−0.01
−0.02
−0.03
−0.04
−0.05
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

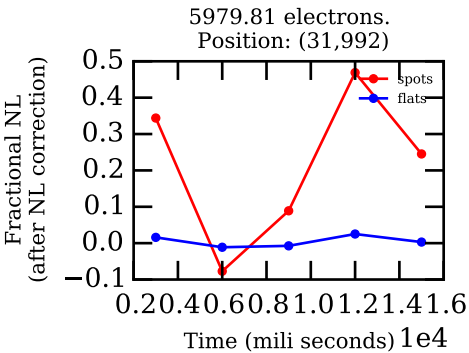

Center: (32,672)
122.067 e/s
(1831 e)
449.325 e/s
(6739.88 e)
90.9488 e/s
(1364.23 e)
391.912 e/s
(5878.68 e)
6255.03 e/s
(93825.5 e)
497.589 e/s
(7463.84 e)
97.0377 e/s
(1455.57 e)
504.16 e/s
(7562.4 e)
89.5667 e/s
(1343.5 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

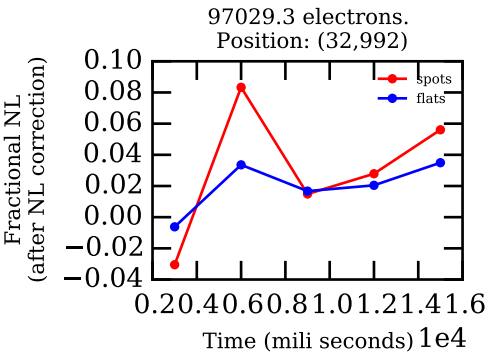

C2 flat
-7.85e-07 +/-
1.45e-17
-7.52e-07 +/-
1.79e-17
-8.04e-07 +/-
2e-17
-6.73e-07 +/-
5.4e-17
-7.42e-07 +/-
3.36e-17
-7.34e-07 +/-
4.68e-17
-7.39e-07 +/-
4.19e-19
-7.59e-07 +/-
2.14e-17
-7.76e-07 +/-
5.95e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

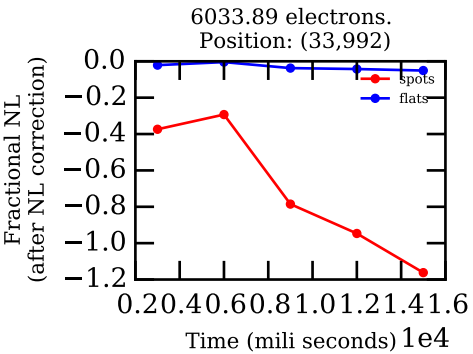

C2 spots
3.49e-05 +/-
2.6e-11
7.85e-06 +/-
1.82e-13
1.86e-05 +/-
9.18e-11
8.85e-06 +/-
4.13e-13
-9.38e-07 +/-
2.56e-17
7.46e-06 +/-
1.85e-12
3.55e-05 +/-
1.35e-10
8.5e-06 +/-
1.13e-12
3.29e-05 +/-
2.1e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

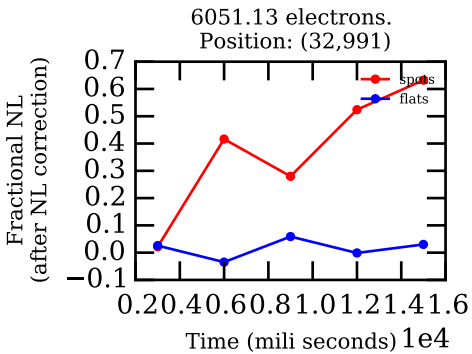

C2 spots after NL correction
1.91e-06 +/-
1.46e-10
-3.98e-08 +/-
2.28e-12
-5.15e-07 +/-
1.64e-09
-1.42e-06 +/-
3.29e-13
-3.77e-09 +/-
4.14e-17
-2.64e-07 +/-
1.39e-12
-5.99e-06 +/-
6.1e-11
1.01e-06 +/-
3.6e-12
2.43e-05 +/-
4.85e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

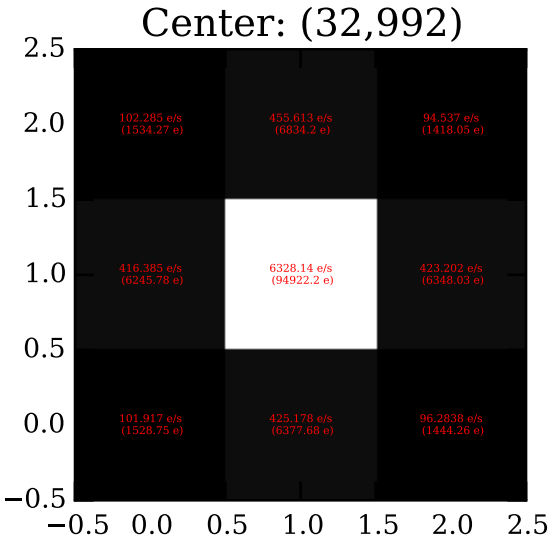

6551.52 electrons.
Position: (32,993)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

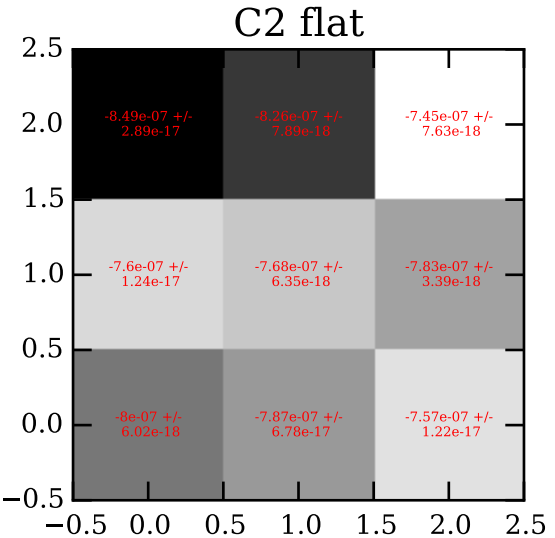

5979.81 electrons.
Position: (31,992)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

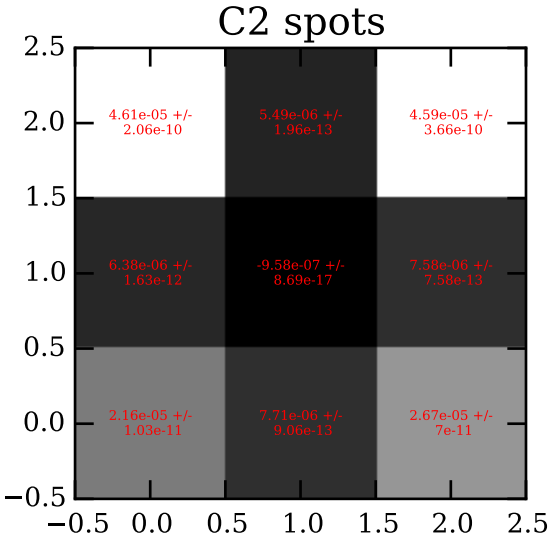

97029.3 electrons.
Position: (32,992)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

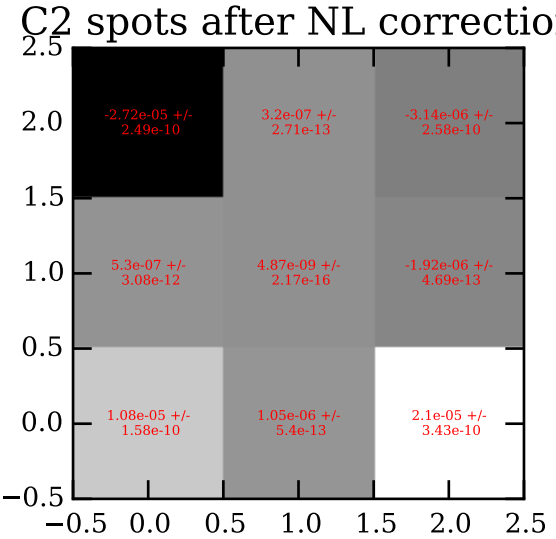

6033.89 electrons.
Position: (33,992)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

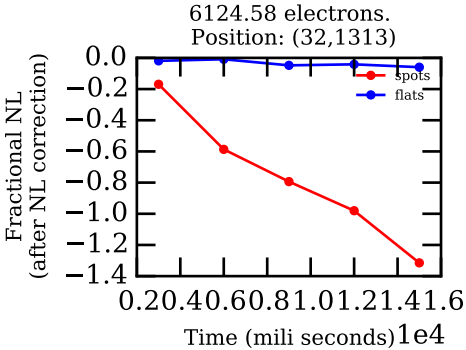

6051.13 electrons.
Position: (32,991)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

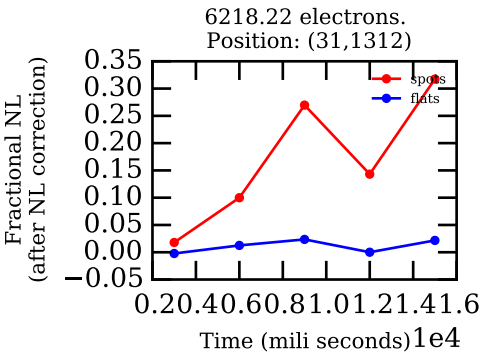

Center: (32,992)
102.285 e/s
(1534.27 e)
455.613 e/s
(6834.2 e)
94.537 e/s
(1418.05 e)
416.385 e/s
(6245.78 e)
6328.14 e/s
(94922.2 e)
423.202 e/s
(6348.03 e)
101.917 e/s
(1528.75 e)
425.178 e/s
(6377.68 e)
96.2838 e/s
(1444.26 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

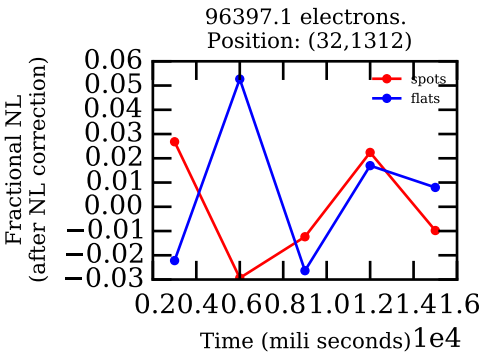

C2 flat
-8.49e-07 +/-
2.89e-17
-8.26e-07 +/-
7.89e-18
-7.45e-07 +/-
7.63e-18
-7.6e-07 +/-
1.24e-17
-7.68e-07 +/-
6.35e-18
-7.83e-07 +/-
3.39e-18
-8e-07 +/-
6.02e-18
-7.87e-07 +/-
6.78e-17
-7.57e-07 +/-
1.22e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

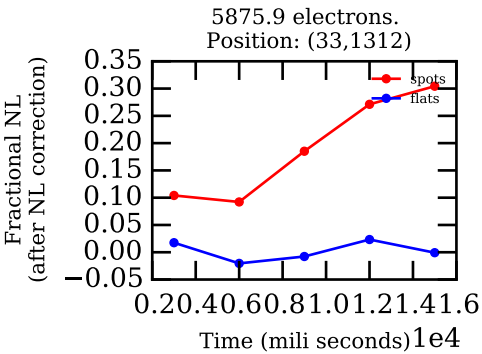

C2 spots
4.61e-05 +/-
2.06e-10
5.49e-06 +/-
1.96e-13
4.59e-05 +/-
3.66e-10
6.38e-06 +/-
1.63e-12
-9.58e-07 +/-
8.69e-17
7.58e-06 +/-
7.58e-13
2.16e-05 +/-
1.03e-11
7.71e-06 +/-
9.06e-13
2.67e-05 +/-
7e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

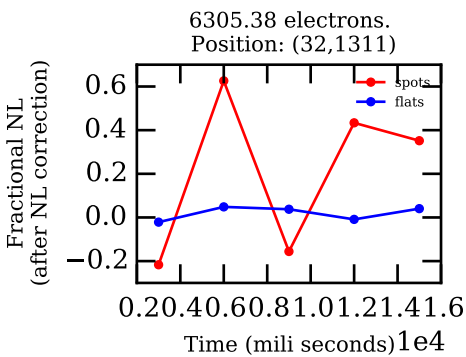

C2 spots after NL correction
-2.72e-05 +/-
2.49e-10
3.2e-07 +/-
2.71e-13
-3.14e-06 +/-
2.58e-10
5.3e-07 +/-
3.08e-12
4.87e-09 +/-
2.17e-16
-1.92e-06 +/-
4.69e-13
1.08e-05 +/-
1.58e-10
1.05e-06 +/-
5.4e-13
2.1e-05 +/-
3.43e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

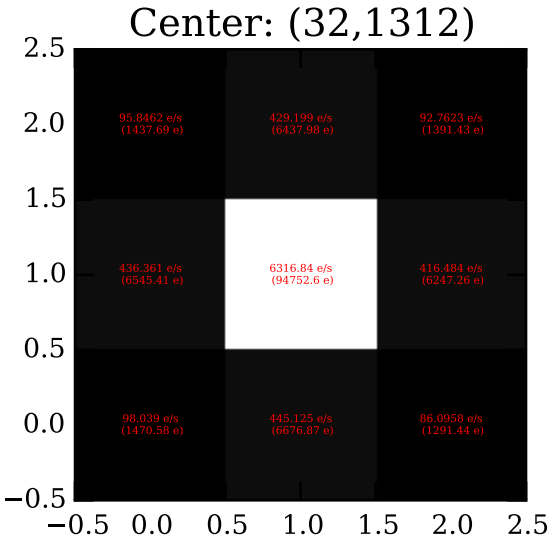

6124.58 electrons.
Position: (32,1313)
Fractional NL
(after NL correction)
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
−1.4
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

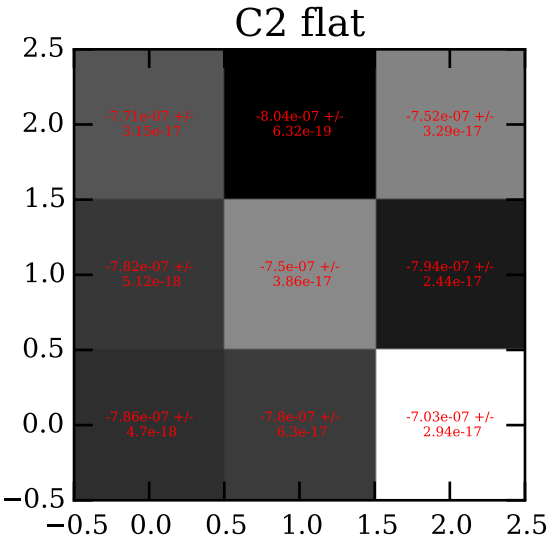

6218.22 electrons.
Position: (31,1312)
Fractional NL
(after NL correction)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

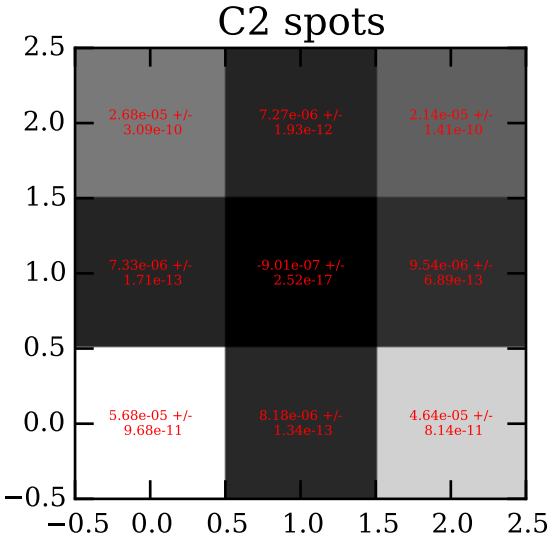

96397.1 electrons.
Position: (32,1312)
Fractional NL
(after NL correction)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
−0.01
−0.02
−0.03
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

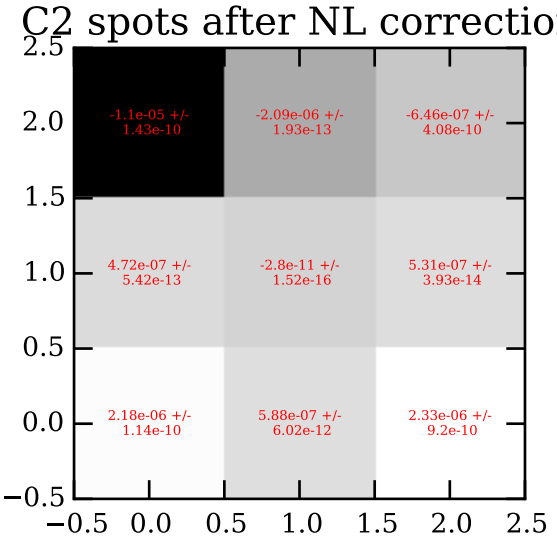

5875.9 electrons.
Position: (33,1312)
Fractional NL
(after NL correction)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

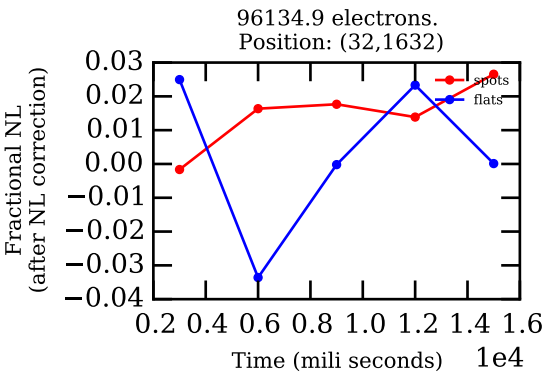

6305.38 electrons.
Position: (32,1311)
Fractional NL
(after NL correction)
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

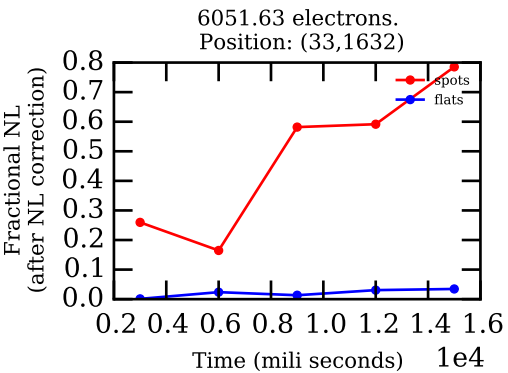

Center: (32,1312)
95.8462 e/s
(1437.69 e)
429.199 e/s
(6437.98 e)
92.7623 e/s
(1391.43 e)
436.361 e/s
(6545.41 e)
6316.84 e/s
(94752.6 e)
416.484 e/s
(6247.26 e)
98.039 e/s
(1470.58 e)
445.125 e/s
(6676.87 e)
86.0958 e/s
(1291.44 e)

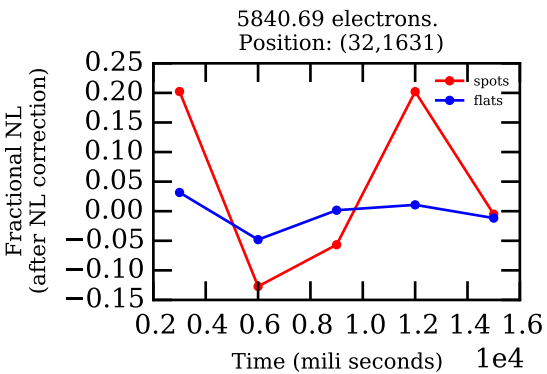

C2 flat
-7.71e-07 +/-
3.13e-17
-8.04e-07 +/-
6.32e-19
-7.52e-07 +/-
3.29e-17
-7.82e-07 +/-
5.12e-18
-7.5e-07 +/-
3.86e-17
-7.94e-07 +/-
2.44e-17
-7.86e-07 +/-
4.7e-18
-7.8e-07 +/-
6.3e-17
-7.03e-07 +/-
2.94e-17

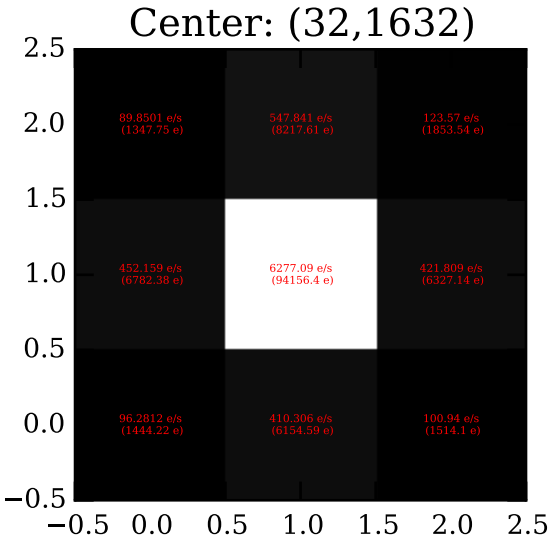

C2 spots
2.68e-05 +/-
3.09e-10
7.27e-06 +/-
1.93e-12
2.14e-05 +/-
1.41e-10
7.33e-06 +/-
1.71e-13
-9.01e-07 +/-
2.52e-17
9.54e-06 +/-
6.89e-13
5.68e-05 +/-
9.68e-11
8.18e-06 +/-
1.34e-13
4.64e-05 +/-
8.14e-11

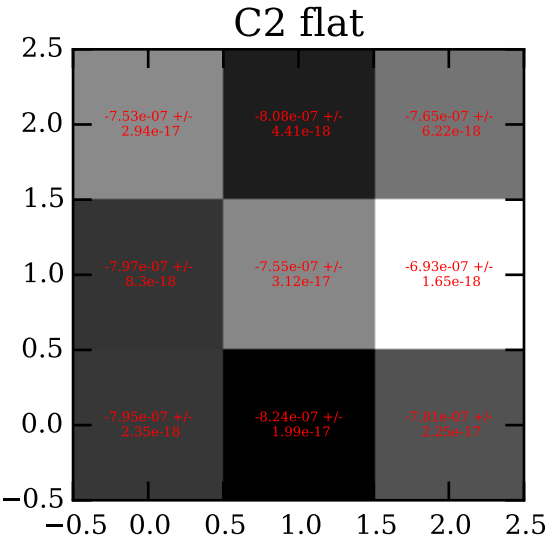

C2 spots after NL correction
-1.1e-05 +/-
1.43e-10
-2.09e-06 +/-
1.93e-13
-6.46e-07 +/-
4.08e-10
4.72e-07 +/-
5.42e-13
-2.8e-11 +/-
1.52e-16
5.31e-07 +/-
3.93e-14
2.18e-06 +/-
1.14e-10
5.88e-07 +/-
6.02e-12
2.33e-06 +/-
9.2e-10

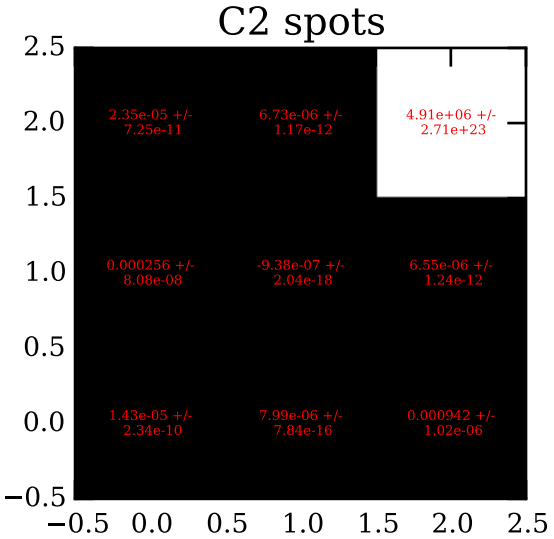

96134.9 electrons.
Position: (32,1632)
Fractional NL
(after NL correction)
0.03
0.02
0.01
0.00
−0.01
−0.02
−0.03
−0.04
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

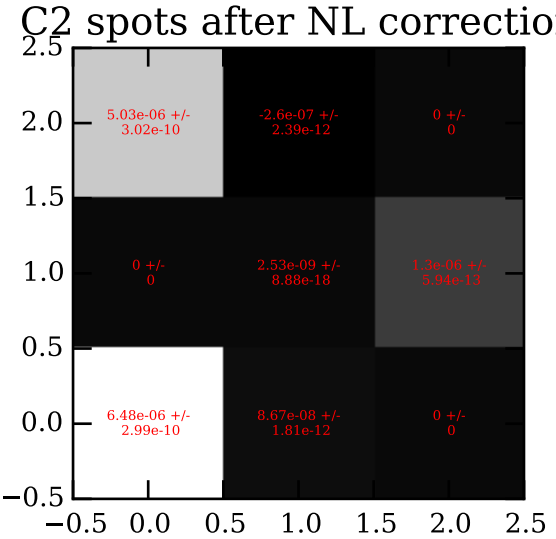

6051.63 electrons.
Position: (33,1632)
Fractional NL
(after NL correction)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

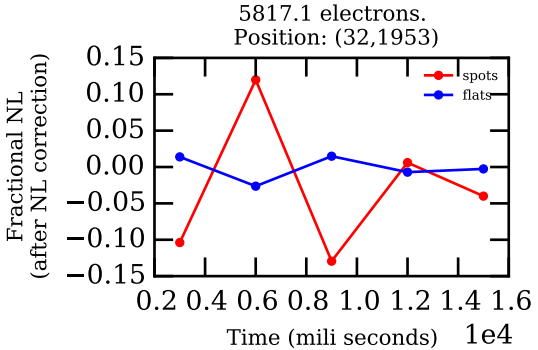

5840.69 electrons.
Position: (32,1631)
Fractional NL
(after NL correction)
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

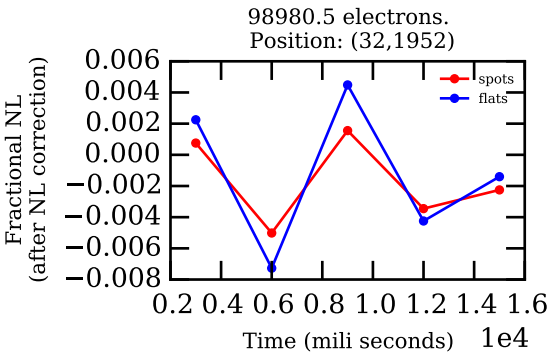

Center: (32,1632)
89.8501 e/s
(1347.75 e)
547.841 e/s
(8217.61 e)
123.57 e/s
(1853.54 e)
452.159 e/s
(6782.38 e)
6277.09 e/s
(94156.4 e)
421.809 e/s
(6327.14 e)
96.2812 e/s
(1444.22 e)
410.306 e/s
(6154.59 e)
100.94 e/s
(1514.1 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

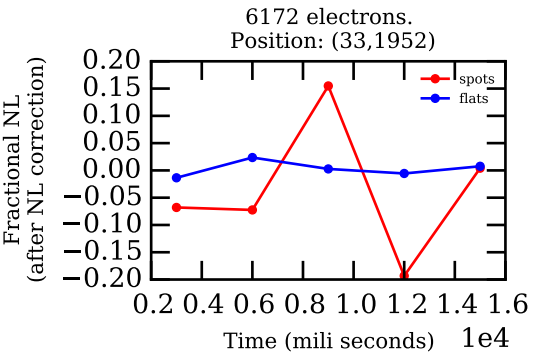

C2 flat
-7.53e-07 +/-
2.94e-17
-8.08e-07 +/-
4.41e-18
-7.65e-07 +/-
6.22e-18
-7.97e-07 +/-
8.3e-18
-7.55e-07 +/-
3.12e-17
-6.93e-07 +/-
1.65e-18
-7.95e-07 +/-
2.35e-18
-8.24e-07 +/-
1.99e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

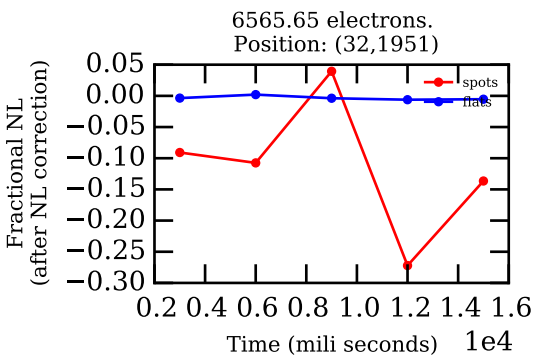

C2 spots
2.35e-05 +/-
7.25e-11
6.73e-06 +/-
1.17e-12
4.91e+06 +/-
2.71e+23
0.000256 +/-
8.08e-08
-9.38e-07 +/-
2.04e-18
6.55e-06 +/-
1.24e-12
1.43e-05 +/-
2.34e-10
7.99e-06 +/-
7.84e-16
0.000942 +/-
1.02e-06
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

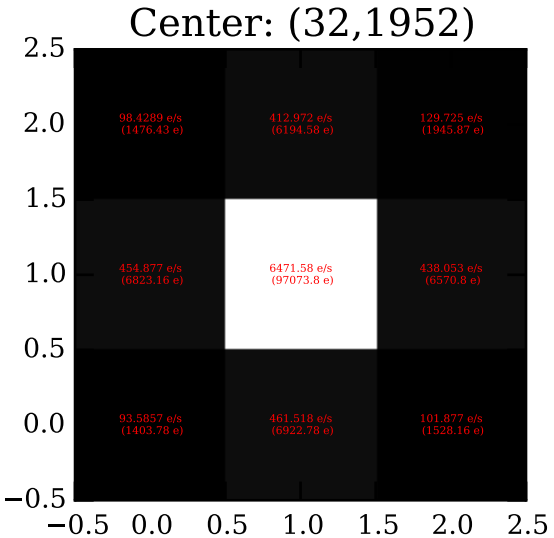

C2 spots after NL correction
5.03e-06 +/-
3.02e-10
-2.6e-07 +/-
2.39e-12
0 +/-
0
0 +/-
0
2.53e-09 +/-
8.88e-18
1.3e-06 +/-
5.94e-13
6.48e-06 +/-
2.99e-10
8.67e-08 +/-
1.81e-12
0 +/-
0
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

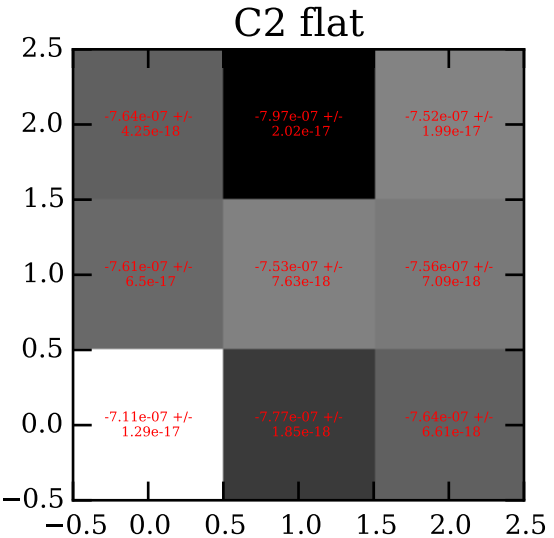

5817.1 electrons.
Position: (32,1953)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

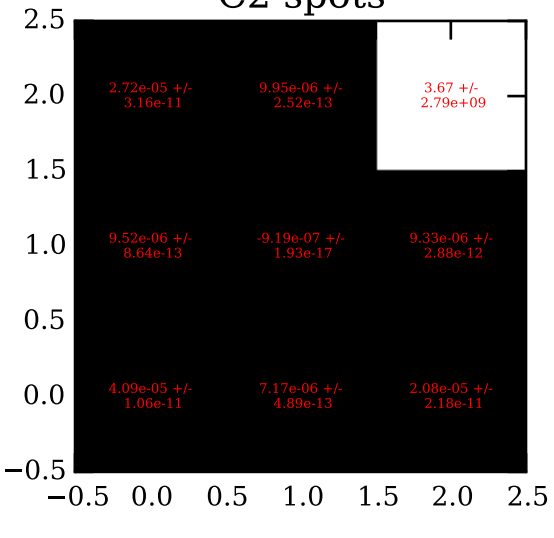

98980.5 electrons.
Position: (32,1952)
Fractional NL
(after NL correction)
0.006
0.004
0.002
0.000
−0.002
−0.004
−0.006
−0.008
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

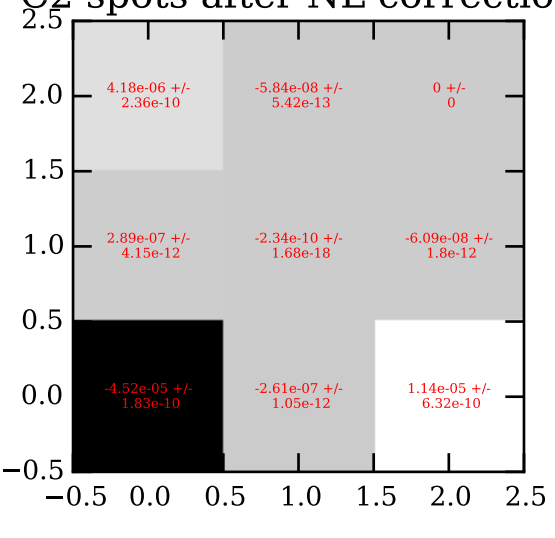

6172 electrons.
Position: (33,1952)
Fractional NL
(after NL correction)
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

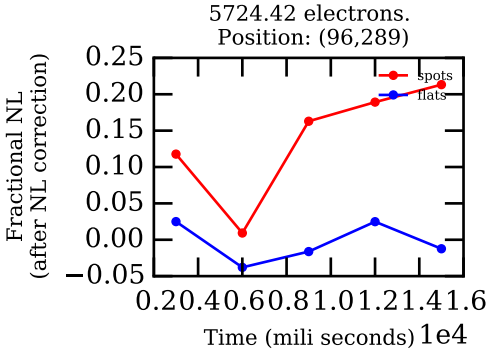

6565.65 electrons.
Position: (32,1951)
Fractional NL
(after NL correction)
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

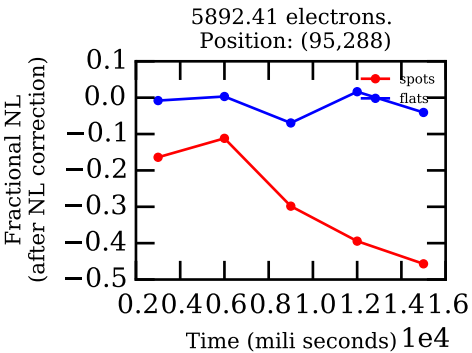

Center: (32,1952)
98.4289 e/s
(1476.43 e)
412.972 e/s
(6194.58 e)
129.725 e/s
(1945.87 e)
454.877 e/s
(6823.16 e)
6471.58 e/s
(97073.8 e)
438.053 e/s
(6570.8 e)
93.5857 e/s
(1403.78 e)
461.518 e/s
(6922.78 e)
101.877 e/s
(1528.16 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

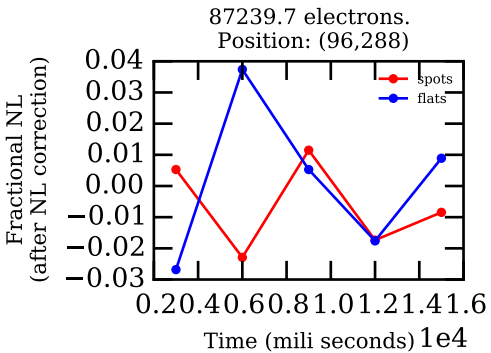

C2 flat
-7.64e-07 +/-
4.25e-18
-7.97e-07 +/-
2.02e-17
-7.52e-07 +/-
1.99e-17
-7.61e-07 +/-
6.5e-17
-7.53e-07 +/-
7.63e-18
-7.56e-07 +/-
7.09e-18
-7.11e-07 +/-
1.29e-17
-7.77e-07 +/-
1.85e-18
-7.64e-07 +/-
6.61e-18
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

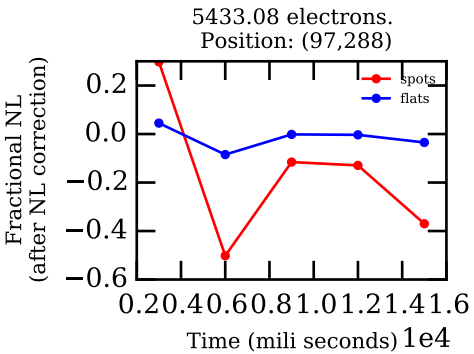

C2 spots
2.72e-05 +/-
3.16e-11
9.95e-06 +/-
2.52e-13
3.67 +/-
2.79e+09
9.52e-06 +/-
8.64e-13
-9.19e-07 +/-
1.93e-17
9.33e-06 +/-
2.88e-12
4.09e-05 +/-
1.06e-11
7.17e-06 +/-
4.89e-13
2.08e-05 +/-
2.18e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

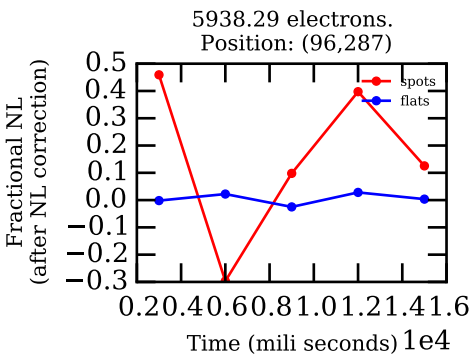

C2 spots after NL correction
4.18e-06 +/-
2.36e-10
-5.84e-08 +/-
5.42e-13
0 +/-
0
2.89e-07 +/-
4.15e-12
-2.34e-10 +/-
1.68e-18
-6.09e-08 +/-
1.8e-12
-4.52e-05 +/-
1.83e-10
-2.61e-07 +/-
1.05e-12
1.14e-05 +/-
6.32e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

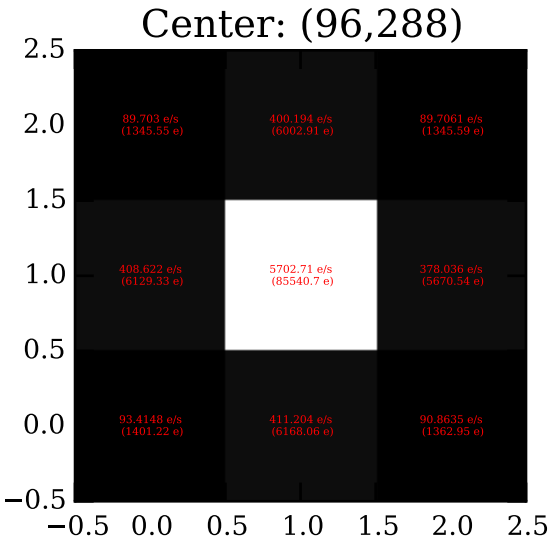

5724.42 electrons.
Position: (96,289)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

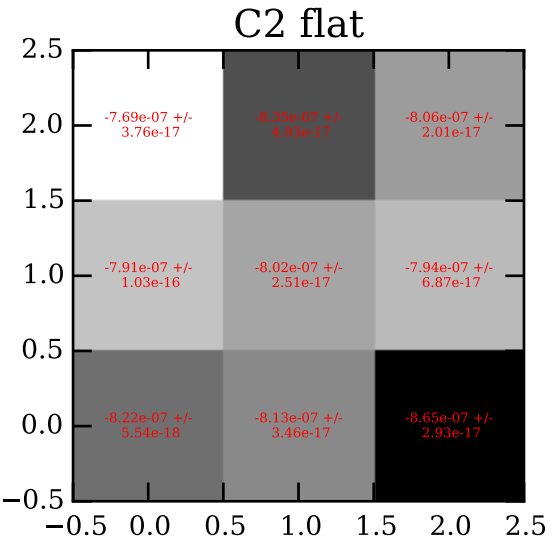

5892.41 electrons.
Position: (95,288)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

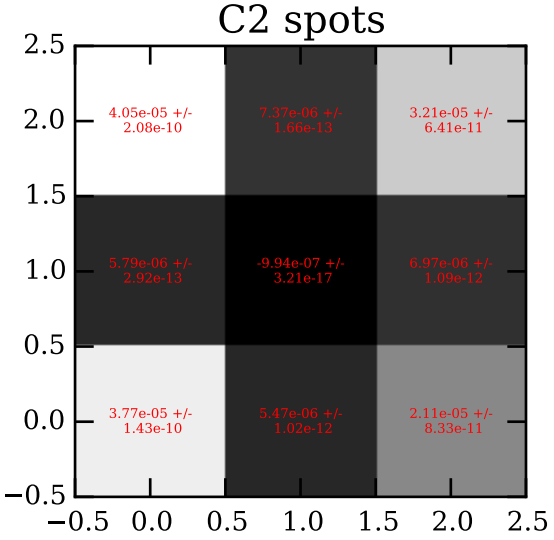

87239.7 electrons.
Position: (96,288)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

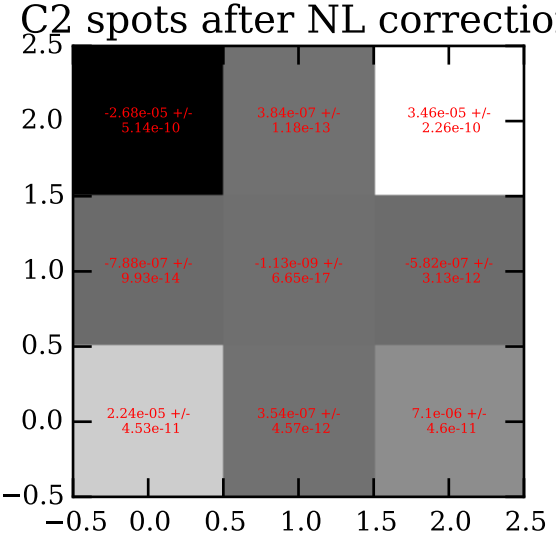

5433.08 electrons.
Position: (97,288)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

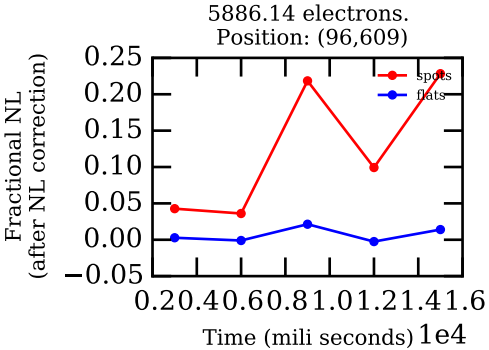

5938.29 electrons.
Position: (96,287)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

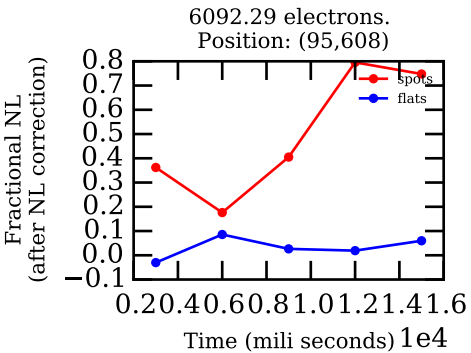

Center: (96,288)
89.703 e/s
(1345.55 e)
400.194 e/s
(6002.91 e)
89.7061 e/s
(1345.59 e)
408.622 e/s
(6129.33 e)
5702.71 e/s
(85540.7 e)
378.036 e/s
(5670.54 e)
93.4148 e/s
(1401.22 e)
411.204 e/s
(6168.06 e)
90.8635 e/s
(1362.95 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

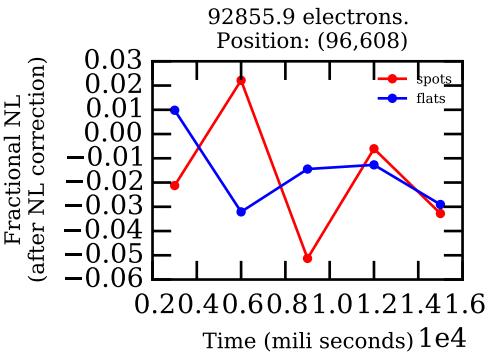

C2 flat
-7.69e-07 +/-
3.76e-17
-8.06e-07 +/-
2.01e-17
-7.91e-07 +/-
1.03e-16
-8.02e-07 +/-
2.51e-17
-7.94e-07 +/-
6.87e-17
-8.22e-07 +/-
5.54e-18
-8.13e-07 +/-
3.46e-17
-8.65e-07 +/-
2.93e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

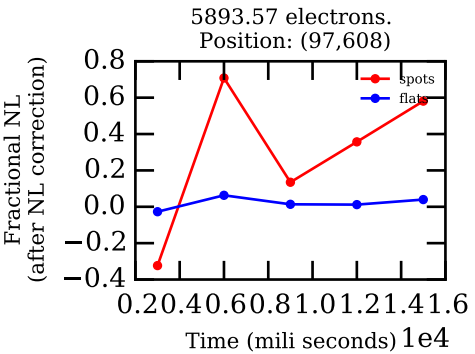

C2 spots
4.05e-05 +/-
2.08e-10
7.37e-06 +/-
1.66e-13
3.21e-05 +/-
6.41e-11
5.79e-06 +/-
2.92e-13
-9.94e-07 +/-
3.21e-17
6.97e-06 +/-
1.09e-12
3.77e-05 +/-
1.43e-10
5.47e-06 +/-
1.02e-12
2.11e-05 +/-
8.33e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

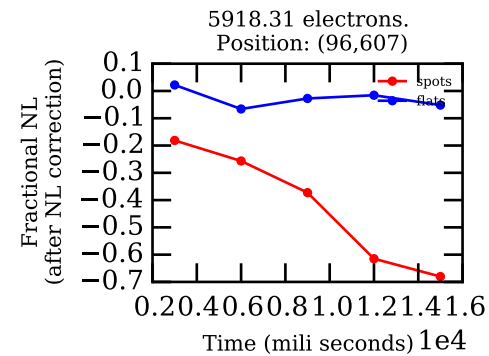

C2 spots after NL correction
-2.68e-05 +/-
5.14e-10
3.84e-07 +/-
1.18e-13
3.46e-05 +/-
2.26e-10
-7.88e-07 +/-
9.93e-14
-1.13e-09 +/-
6.65e-17
-5.82e-07 +/-
3.13e-12
2.24e-05 +/-
4.53e-11
3.54e-07 +/-
4.57e-12
7.1e-06 +/-
4.6e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

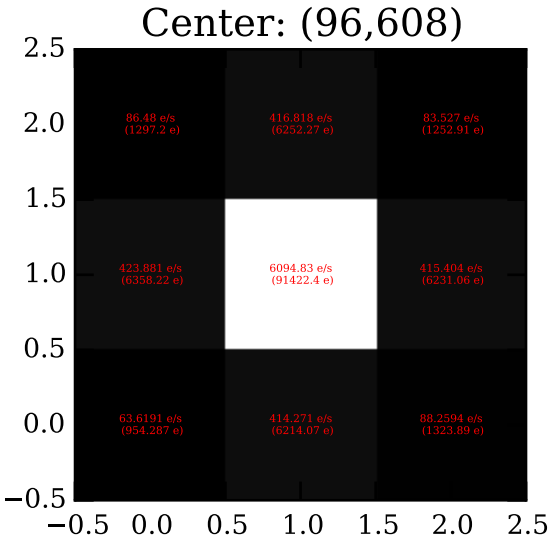

5886.14 electrons.
Position: (96,609)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

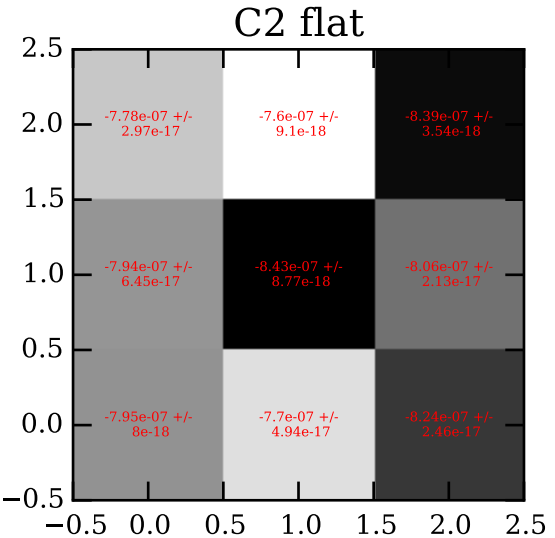

6092.29 electrons.
Position: (95,608)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

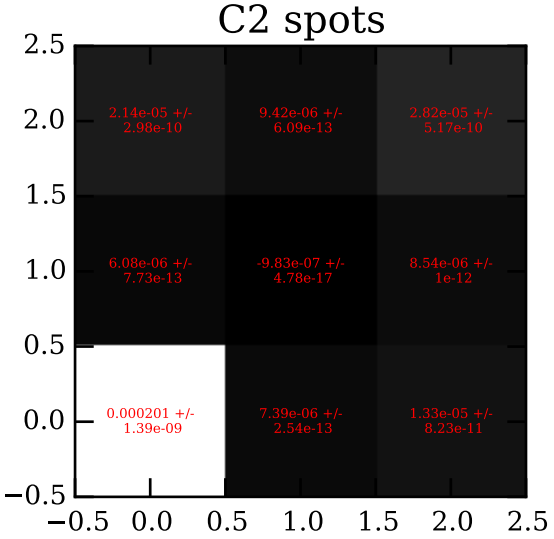

92855.9 electrons.
Position: (96,608)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

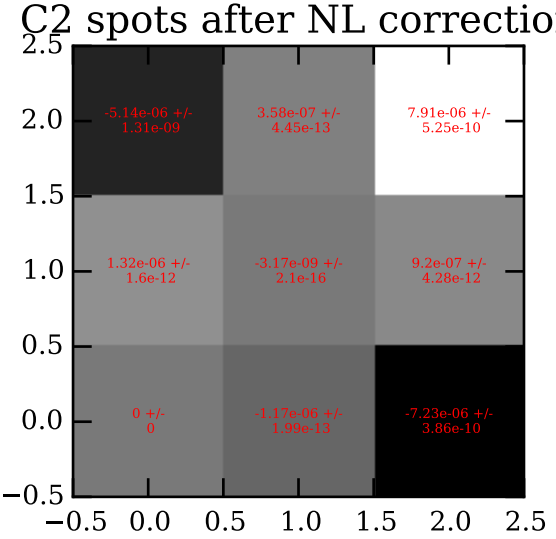

5893.57 electrons.
Position: (97,608)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

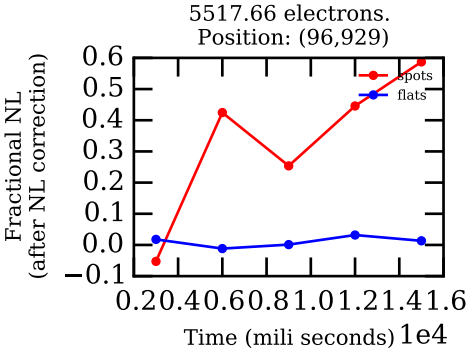

5918.31 electrons.
Position: (96,607)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

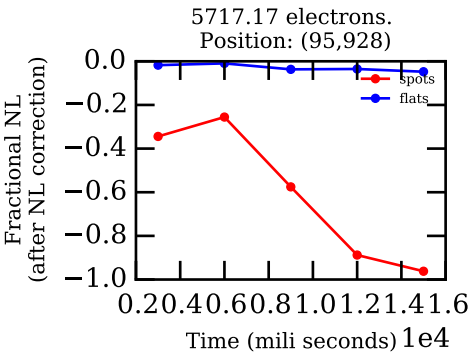

Center: (96,608)
86.48 e/s
(1297.2 e)
416.818 e/s
(6252.27 e)
83.527 e/s
(1252.91 e)
423.881 e/s
(6358.22 e)
6094.83 e/s
(91422.4 e)
415.404 e/s
(6231.06 e)
63.6191 e/s
(954.287 e)
414.271 e/s
(6214.07 e)
88.2594 e/s
(1323.89 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

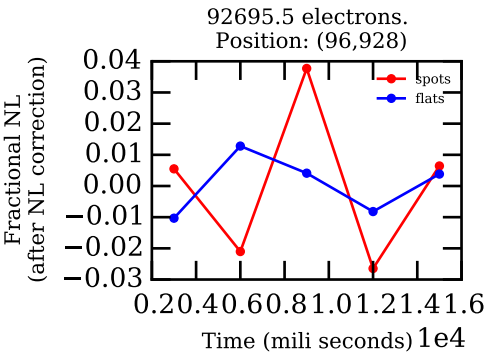

C2 flat
-7.78e-07 +/-
2.97e-17
-7.6e-07 +/-
9.1e-18
-8.39e-07 +/-
3.54e-18
-7.94e-07 +/-
6.45e-17
-8.43e-07 +/-
8.77e-18
-8.06e-07 +/-
2.13e-17
-7.95e-07 +/-
8e-18
-7.7e-07 +/-
4.94e-17
-8.24e-07 +/-
2.46e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

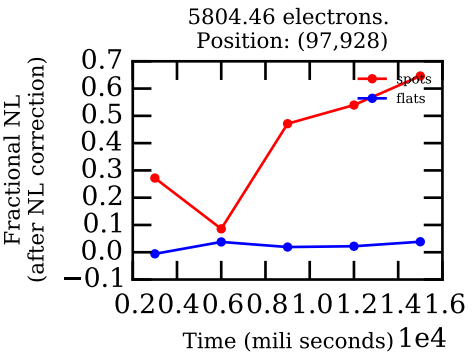

C2 spots
2.14e-05 +/-
2.98e-10
9.42e-06 +/-
6.09e-13
2.82e-05 +/-
5.17e-10
6.08e-06 +/-
7.73e-13
-9.83e-07 +/-
4.78e-17
8.54e-06 +/-
1e-12
0.000201 +/-
1.39e-09
7.39e-06 +/-
2.54e-13
1.33e-05 +/-
8.23e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

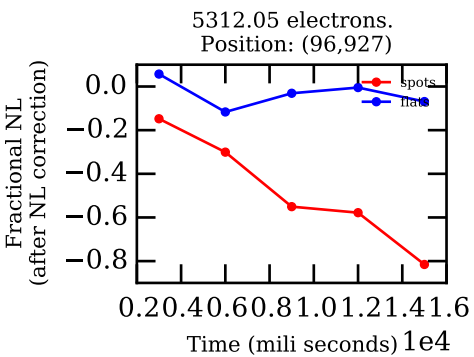

C2 spots after NL correction
-5.14e-06 +/-
1.31e-09
3.58e-07 +/-
4.45e-13
7.91e-06 +/-
5.25e-10
1.32e-06 +/-
1.6e-12
-3.17e-09 +/-
2.1e-16
9.2e-07 +/-
4.28e-12
0 +/-
0
-1.17e-06 +/-
1.99e-13
-7.23e-06 +/-
3.86e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

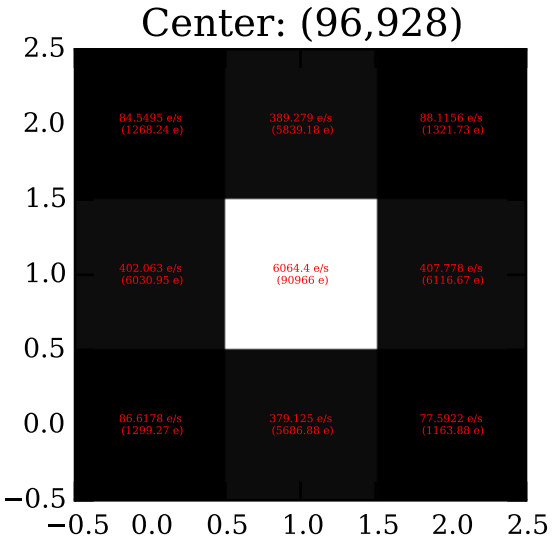

5517.66 electrons.
Position: (96,929)
Fractional NL
(after NL correction)
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

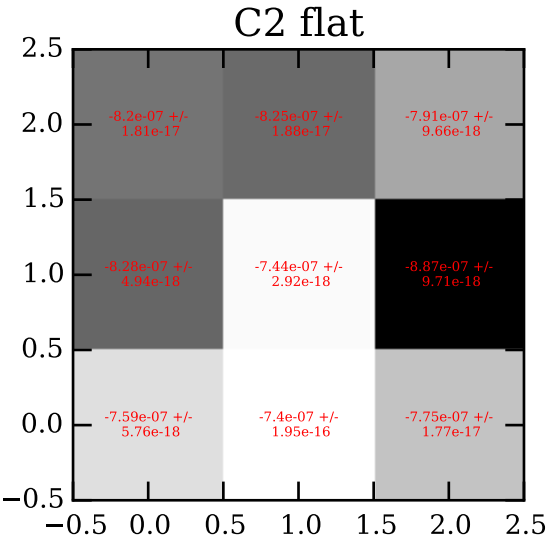

5717.17 electrons.
Position: (95,928)
Fractional NL
(after NL correction)
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

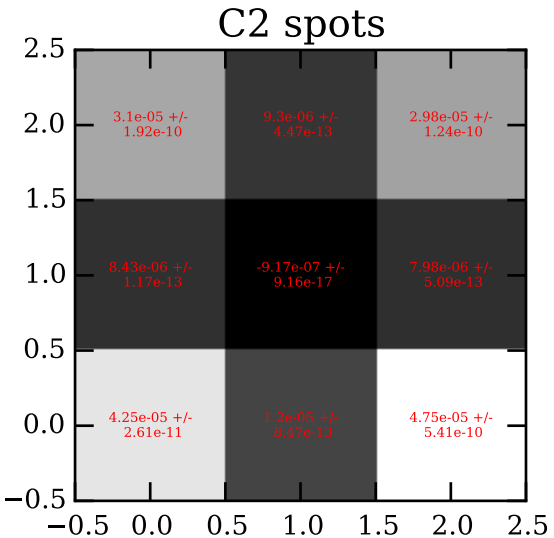

92695.5 electrons.
Position: (96,928)
Fractional NL
(after NL correction)
0.04
0.03
0.02
0.01
0.00
−0.01
−0.02
−0.03
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

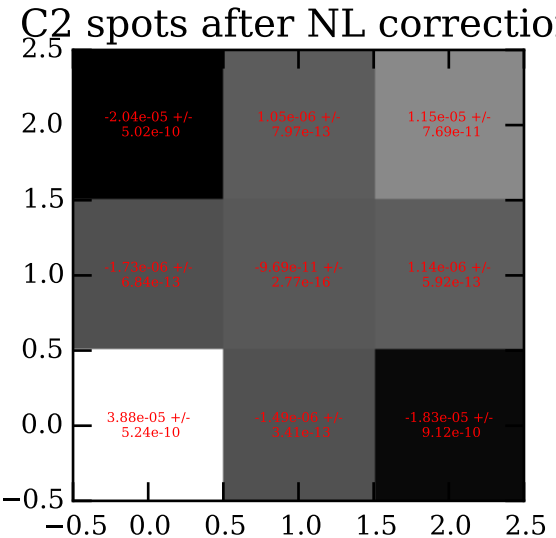

5804.46 electrons.
Position: (97,928)
Fractional NL
(after NL correction)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

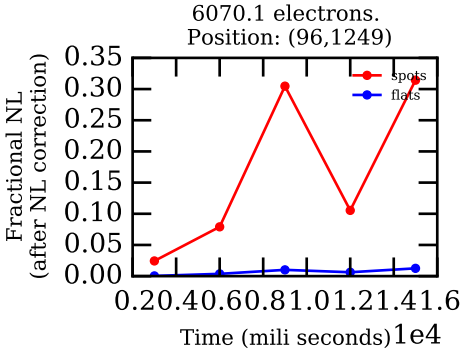

5312.05 electrons.
Position: (96,927)
Fractional NL
(after NL correction)
0.0
−0.2
−0.4
−0.6
−0.8
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

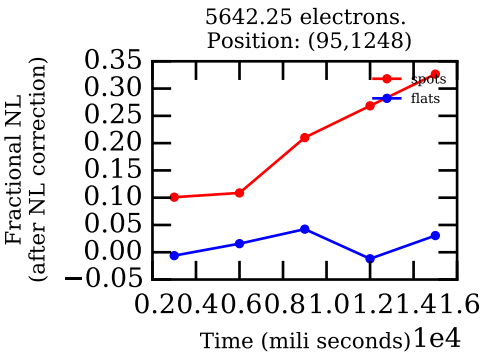

Center: (96,928)
84.5495 e/s
(1268.24 e)
389.279 e/s
(5839.18 e)
88.1156 e/s
(1321.73 e)
402.063 e/s
(6030.95 e)
6064.4 e/s
(90966 e)
407.778 e/s
(6116.67 e)
86.6178 e/s
(1299.27 e)
379.125 e/s
(5686.88 e)
77.5922 e/s
(1163.88 e)

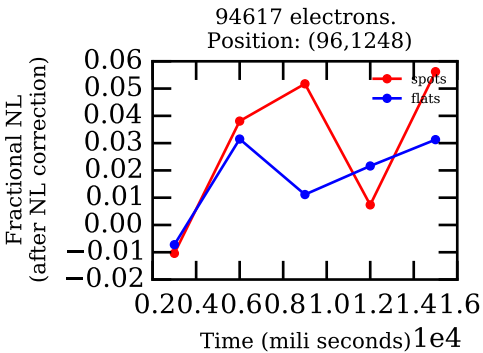

C2 flat
-8.2e-07 +/-
1.81e-17
-8.25e-07 +/-
1.88e-17
-7.91e-07 +/-
9.66e-18
-8.28e-07 +/-
4.94e-18
-7.44e-07 +/-
2.92e-18
-8.87e-07 +/-
9.71e-18
-7.59e-07 +/-
5.76e-18
-7.4e-07 +/-
1.95e-16
-7.75e-07 +/-
1.77e-17

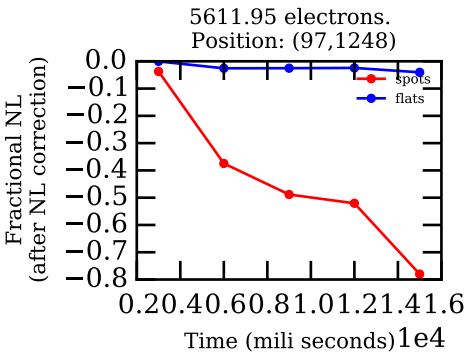

C2 spots
3.1e-05 +/-
1.92e-10
9.3e-06 +/-
4.47e-13
2.98e-05 +/-
1.24e-10
8.43e-06 +/-
1.17e-13
-9.17e-07 +/-
9.16e-17
7.98e-06 +/-
5.09e-13
4.25e-05 +/-
2.61e-11
1.2e-05 +/-
8.47e-13
4.75e-05 +/-
5.41e-10

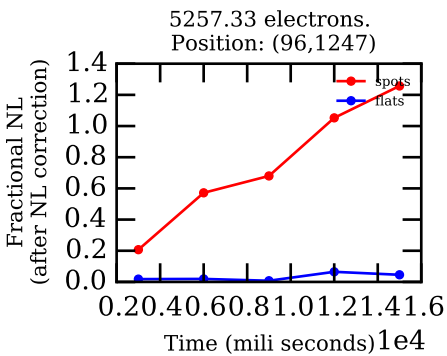

C2 spots after NL correction
-2.04e-05 +/-
5.02e-10
1.05e-06 +/-
7.97e-13
1.15e-05 +/-
7.69e-11
-1.73e-06 +/-
6.84e-13
-9.68e-11 +/-
2.77e-16
1.14e-06 +/-
5.92e-13
3.88e-05 +/-
5.24e-10
-1.48e-06 +/-
3.41e-13
-1.83e-05 +/-
9.12e-10

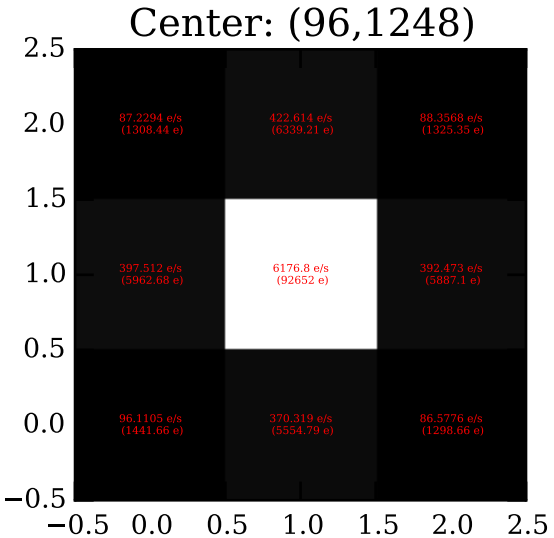

6070.1 electrons.
Position: (96,1249)
Fractional NL
(after NL correction)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

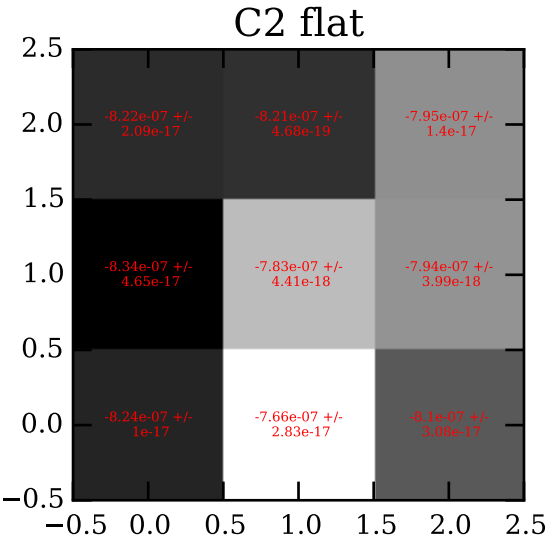

5642.25 electrons.
Position: (95,1248)
Fractional NL
(after NL correction)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

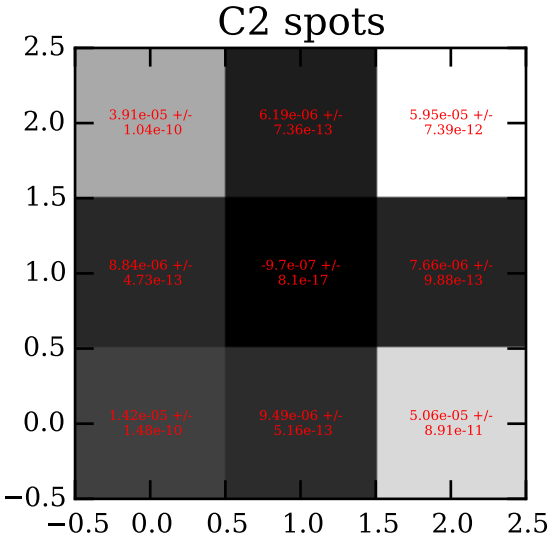

94617 electrons.
Position: (96,1248)
Fractional NL
(after NL correction)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
−0.01
−0.02
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

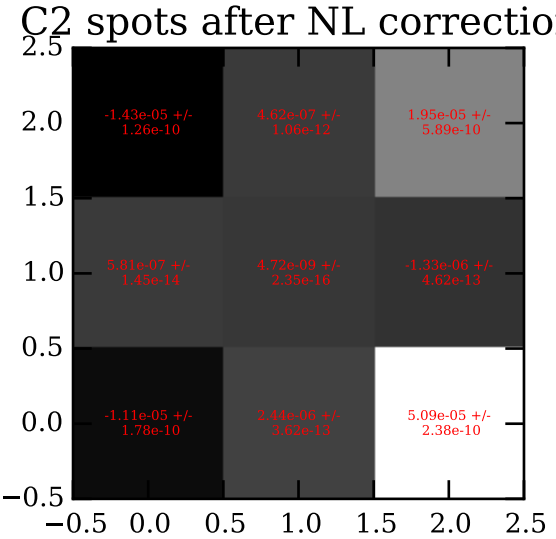

5611.95 electrons.
Position: (97,1248)
Fractional NL
(after NL correction)
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

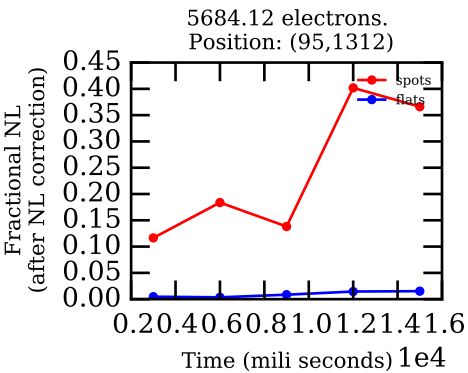

5257.33 electrons.
Position: (96,1247)
Fractional NL
(after NL correction)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

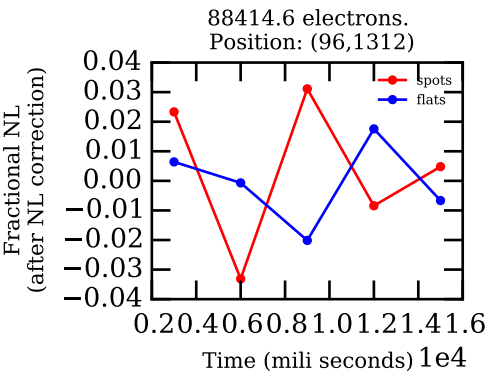

Center: (96,1248)
87.2294 e/s
(1308.44 e)
422.614 e/s
(6339.21 e)
88.3568 e/s
(1325.35 e)
397.512 e/s
(5962.68 e)
6176.8 e/s
(92652 e)
392.473 e/s
(5887.1 e)
96.1105 e/s
(1441.66 e)
370.319 e/s
(5554.79 e)
86.5776 e/s
(1298.66 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

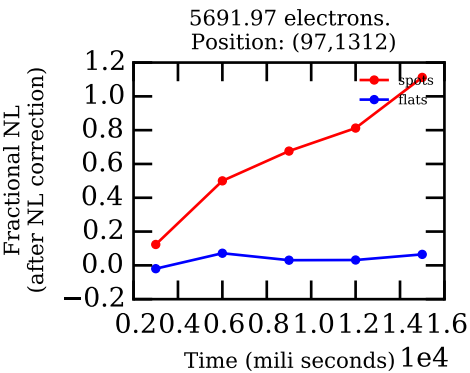

C2 flat
-8.22e-07 +/-
2.09e-17
-8.21e-07 +/-
4.68e-19
-7.95e-07 +/-
1.4e-17
-8.34e-07 +/-
4.65e-17
-7.83e-07 +/-
4.41e-18
-7.94e-07 +/-
3.99e-18
-8.24e-07 +/-
1e-17
-7.66e-07 +/-
2.83e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

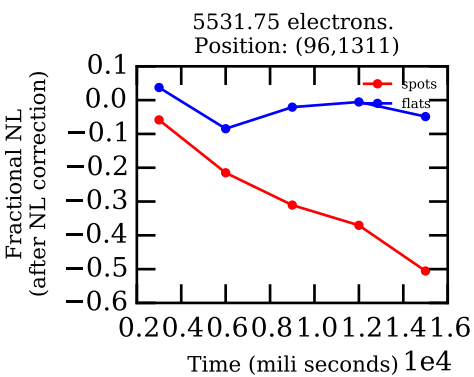

C2 spots
3.91e-05 +/-
1.04e-10
6.19e-06 +/-
7.36e-13
5.95e-05 +/-
7.39e-12
8.84e-06 +/-
4.73e-13
-9.7e-07 +/-
8.1e-17
7.66e-06 +/-
9.88e-13
1.42e-05 +/-
1.48e-10
9.49e-06 +/-
5.16e-13
5.06e-05 +/-
8.91e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

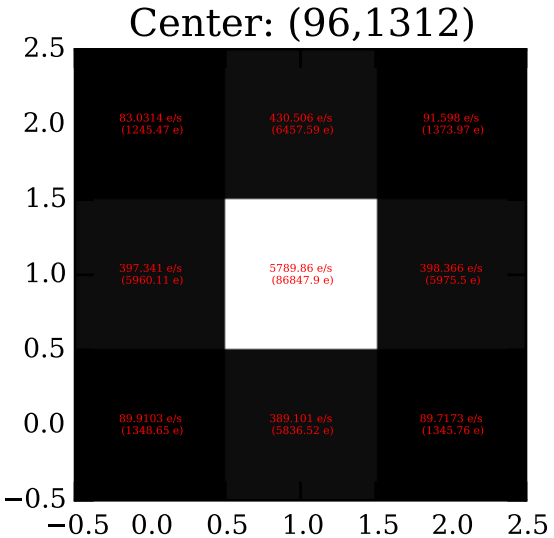

C2 spots after NL correction
-1.43e-05 +/-
1.26e-10
4.62e-07 +/-
1.06e-12
1.95e-05 +/-
5.89e-10
5.81e-07 +/-
1.45e-14
4.72e-09 +/-
2.35e-16
-1.33e-06 +/-
4.62e-13
-1.11e-05 +/-
1.78e-10
2.44e-06 +/-
3.62e-13
5.09e-05 +/-
2.38e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

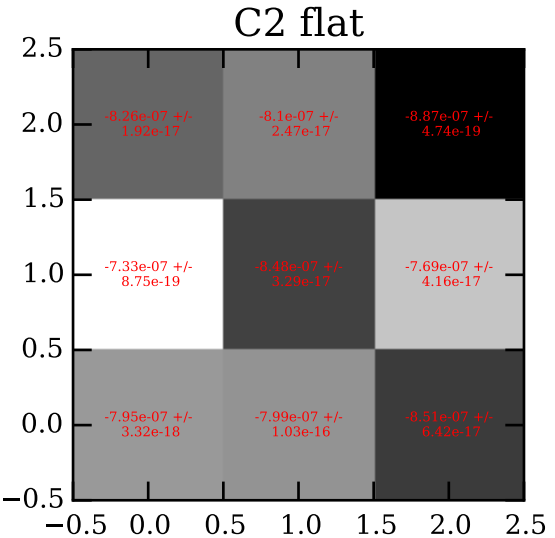

5684.12 electrons.
Position: (95,1312)
Fractional NL
(after NL correction)
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

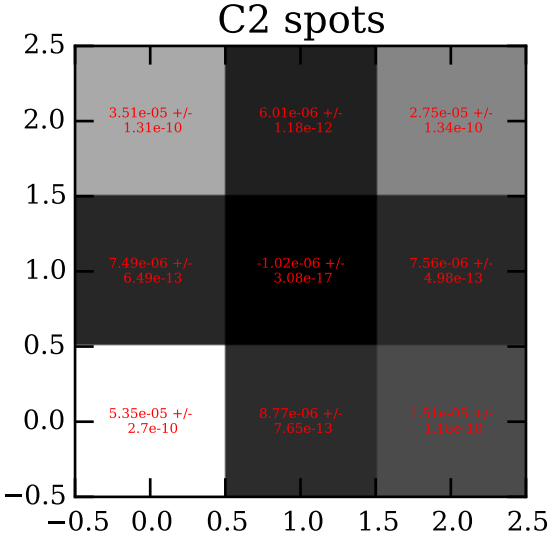

88414.6 electrons.
Position: (96,1312)
Fractional NL
(after NL correction)
0.04
0.03
0.02
0.01
0.00
−0.01
−0.02
−0.03
−0.04
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

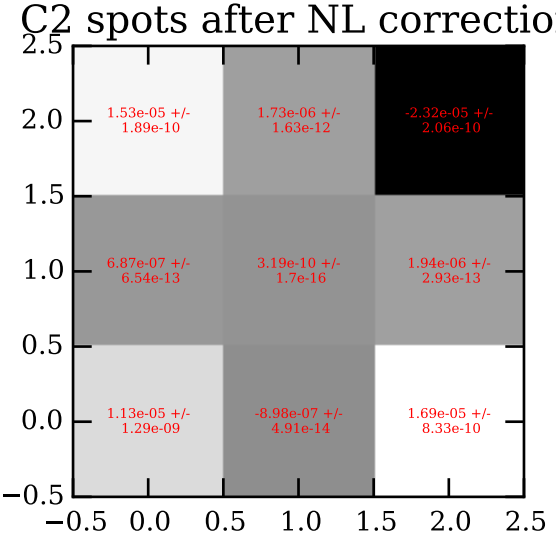

5691.97 electrons.
Position: (97,1312)
Fractional NL
(after NL correction)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

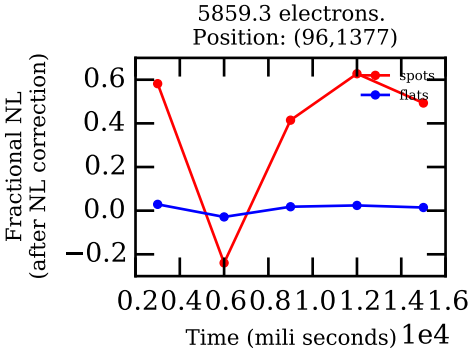

5531.75 electrons.
Position: (96,1311)
Fractional NL
(after NL correction)
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

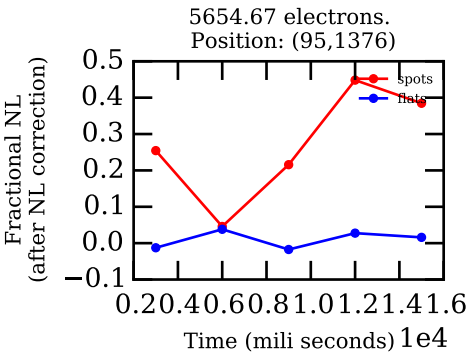

Center: (96,1312)
83.0314 e/s
(1245.47 e)
430.506 e/s
(6457.59 e)
91.598 e/s
(1373.97 e)
397.341 e/s
(5960.11 e)
5789.86 e/s
(86847.9 e)
398.366 e/s
(5975.5 e)
89.9103 e/s
(1348.65 e)
389.101 e/s
(5836.52 e)
89.7173 e/s
(1345.76 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

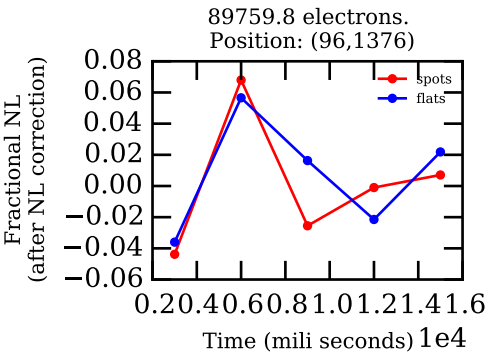

C2 flat
-8.26e-07 +/-
1.92e-17
-8.1e-07 +/-
2.47e-17
-8.87e-07 +/-
4.74e-19
-7.33e-07 +/-
8.75e-19
-8.48e-07 +/-
3.29e-17
-7.69e-07 +/-
4.16e-17
-7.95e-07 +/-
3.32e-18
-7.99e-07 +/-
1.03e-16
-8.51e-07 +/-
6.42e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

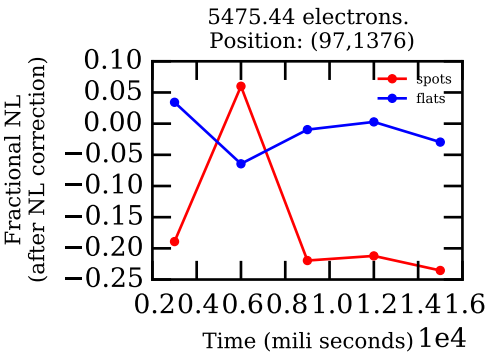

C2 spots
3.51e-05 +/-
1.31e-10
6.01e-06 +/-
1.18e-12
2.75e-05 +/-
1.34e-10
7.49e-06 +/-
6.49e-13
-1.02e-06 +/-
3.08e-17
7.56e-06 +/-
4.98e-13
5.35e-05 +/-
2.7e-10
8.77e-06 +/-
7.65e-13
1.31e-05 +/-
1.18e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

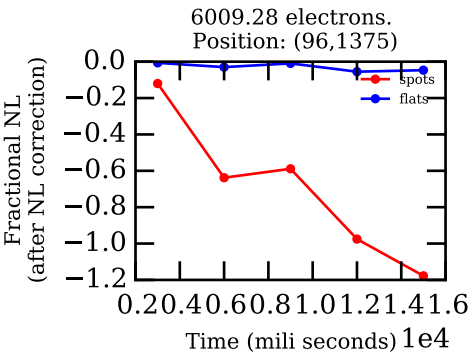

C2 spots after NL correction
1.53e-05 +/-
1.89e-10
1.73e-06 +/-
1.63e-12
-2.32e-05 +/-
2.06e-10
6.87e-07 +/-
6.54e-13
3.19e-10 +/-
1.7e-16
1.94e-06 +/-
2.93e-13
1.13e-05 +/-
1.29e-09
-8.98e-07 +/-
4.91e-14
1.69e-05 +/-
8.33e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

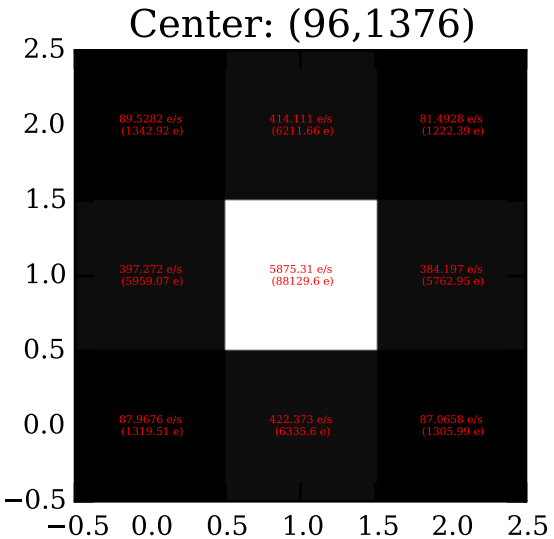

5859.3 electrons.
Position: (96,1377)
Fractional NL
(after NL correction)
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

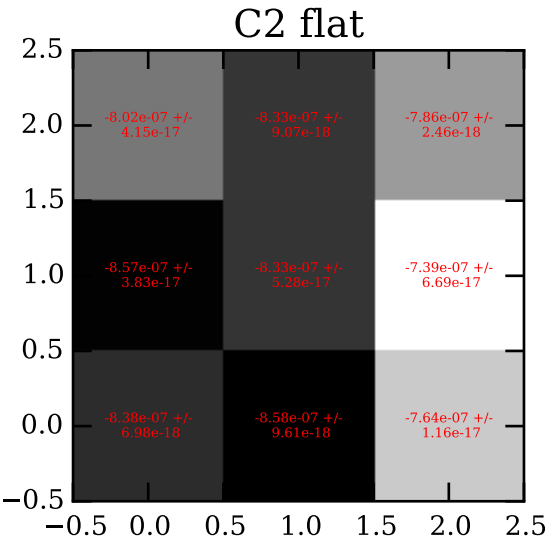

5654.67 electrons.
Position: (95,1376)
Fractional NL
(after NL correction)
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

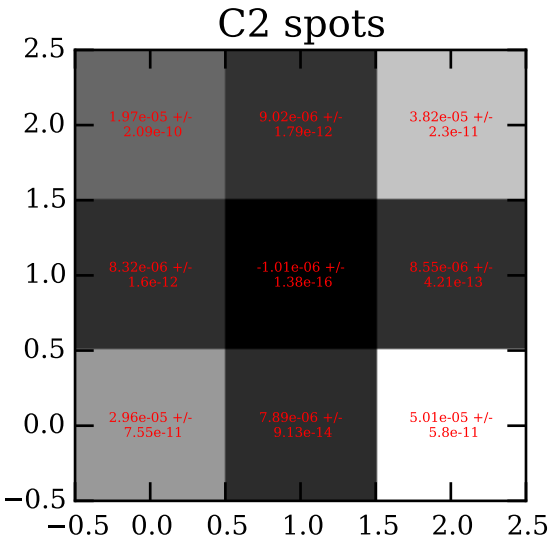

89759.8 electrons.
Position: (96,1376)
Fractional NL
(after NL correction)
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

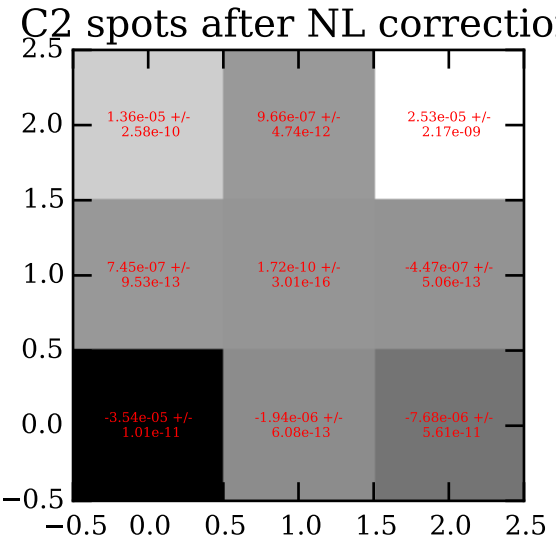

5475.44 electrons.
Position: (97,1376)
Fractional NL
(after NL correction)
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

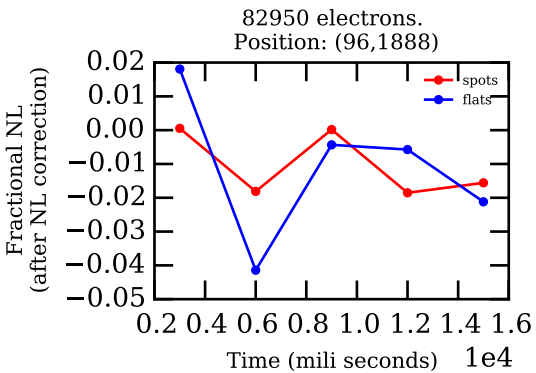

6009.28 electrons.
Position: (96,1375)
Fractional NL
(after NL correction)
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

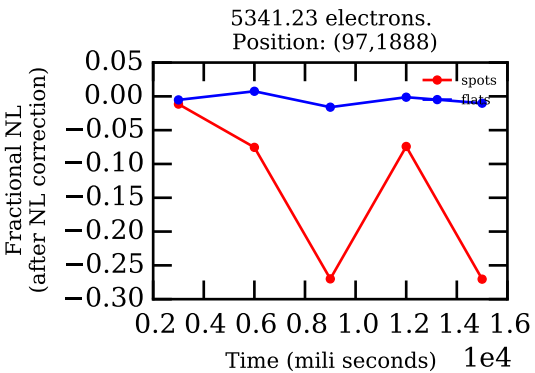

Center: (96,1376)
89.5282 e/s
(1342.92 e)
414.111 e/s
(6211.66 e)
81.4928 e/s
(1222.39 e)
397.272 e/s
(5959.07 e)
5875.31 e/s
(88129.6 e)
384.197 e/s
(5762.95 e)
87.9676 e/s
(1319.51 e)
422.373 e/s
(6335.6 e)
87.0658 e/s
(1305.99 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

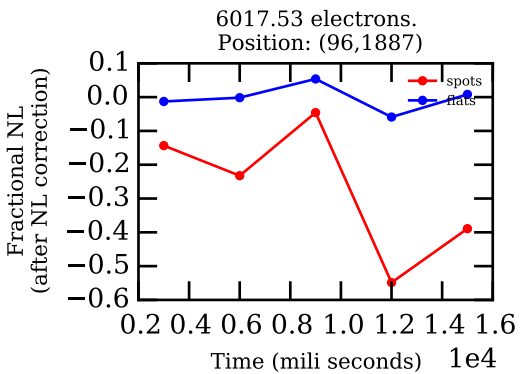

C2 flat
-8.02e-07 +/-
4.15e-17
-8.33e-07 +/-
9.07e-18
-7.86e-07 +/-
2.46e-18
-8.57e-07 +/-
3.83e-17
-8.33e-07 +/-
5.28e-17
-7.39e-07 +/-
6.69e-17
-8.38e-07 +/-
6.98e-18
-8.58e-07 +/-
9.61e-18
-7.64e-07 +/-
1.16e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

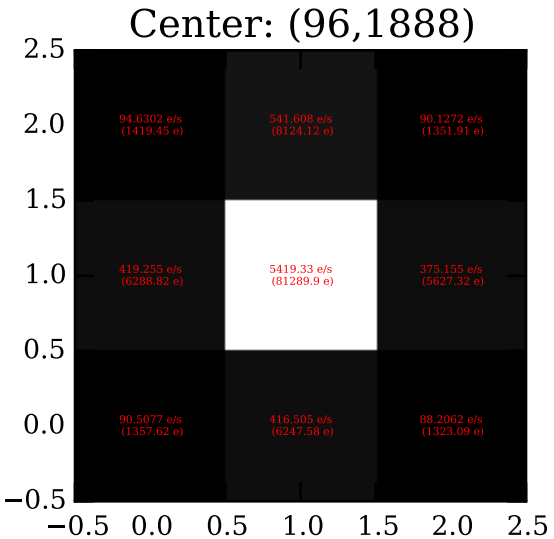

C2 spots
1.97e-05 +/-
2.09e-10
9.02e-06 +/-
1.79e-12
3.82e-05 +/-
2.3e-11
8.32e-06 +/-
1.6e-12
-1.01e-06 +/-
1.38e-16
8.55e-06 +/-
4.21e-13
2.96e-05 +/-
7.55e-11
7.89e-06 +/-
9.13e-14
5.01e-05 +/-
5.8e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

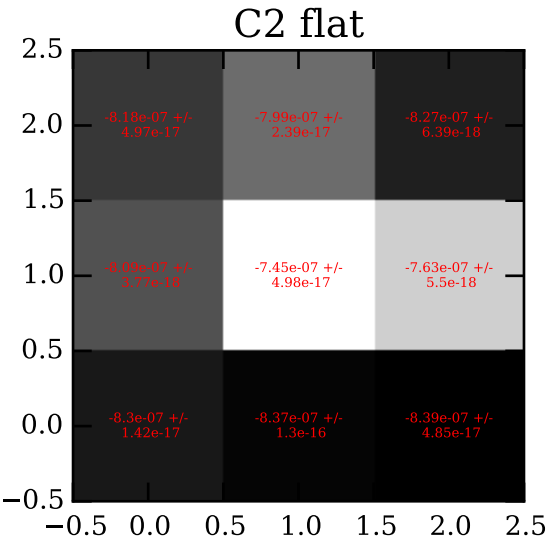

C2 spots after NL correction
1.36e-05 +/-
2.58e-10
9.66e-07 +/-
4.74e-12
2.53e-05 +/-
2.17e-09
7.45e-07 +/-
9.53e-13
1.72e-10 +/-
3.01e-16
-4.47e-07 +/-
5.06e-13
-3.54e-05 +/-
1.01e-11
-1.94e-06 +/-
6.08e-13
-7.68e-06 +/-
5.61e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

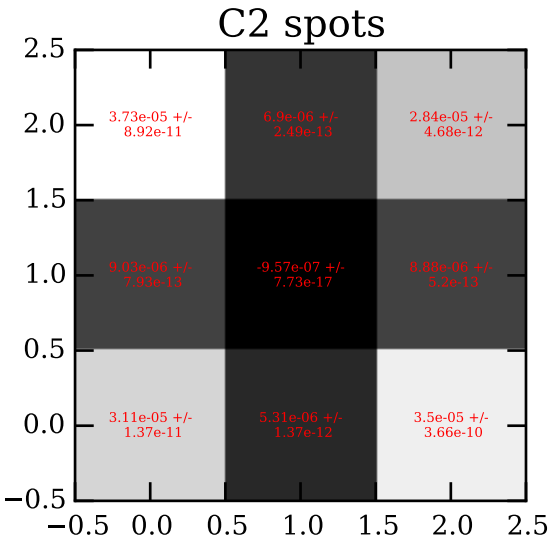

82950 electrons.
Position: (96,1888)
Fractional NL
(after NL correction)
0.02
0.01
0.00
−0.01
−0.02
−0.03
−0.04
−0.05
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

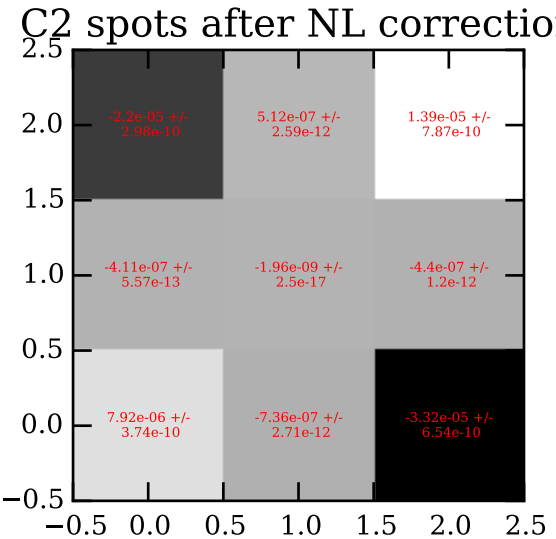

5341.23 electrons.
Position: (97,1888)
Fractional NL
(after NL correction)
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

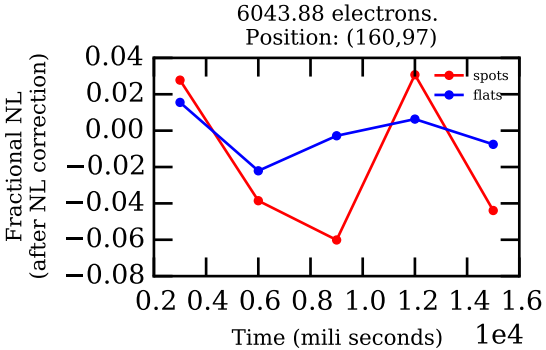

6017.53 electrons.
Position: (96,1887)
Fractional NL
(after NL correction)
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

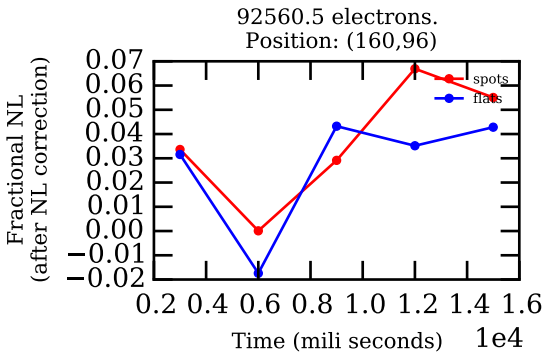

Center: (96,1888)
94.6302 e/s
(1419.45 e)
541.608 e/s
(8124.12 e)
90.1272 e/s
(1351.91 e)
419.255 e/s
(6288.82 e)
5419.33 e/s
(81289.9 e)
375.155 e/s
(5627.32 e)
90.5077 e/s
(1357.62 e)
416.505 e/s
(6247.58 e)
88.2062 e/s
(1323.09 e)

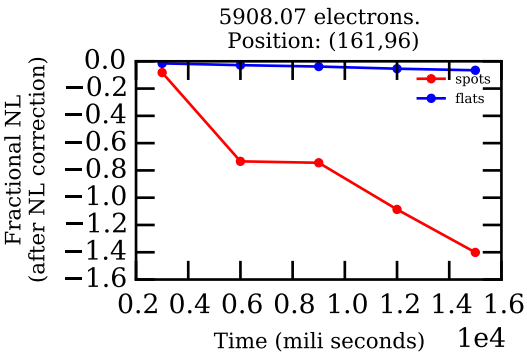

C2 flat
-8.18e-07 +/-
4.97e-17
-7.99e-07 +/-
2.39e-17
-8.27e-07 +/-
6.39e-18
-8.09e-07 +/-
3.77e-18
-7.45e-07 +/-
4.98e-17
-7.63e-07 +/-
5.5e-18
-8.3e-07 +/-
1.42e-17
-8.37e-07 +/-
1.3e-16
-8.39e-07 +/-
4.85e-17

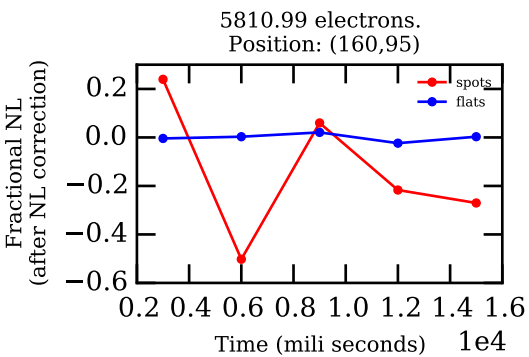

C2 spots
3.73e-05 +/-
8.92e-11
6.9e-06 +/-
2.49e-13
2.84e-05 +/-
4.68e-12
9.03e-06 +/-
7.93e-13
-9.57e-07 +/-
7.73e-17
8.88e-06 +/-
5.2e-13
3.11e-05 +/-
1.37e-11
5.31e-06 +/-
1.37e-12
3.5e-05 +/-
3.66e-10

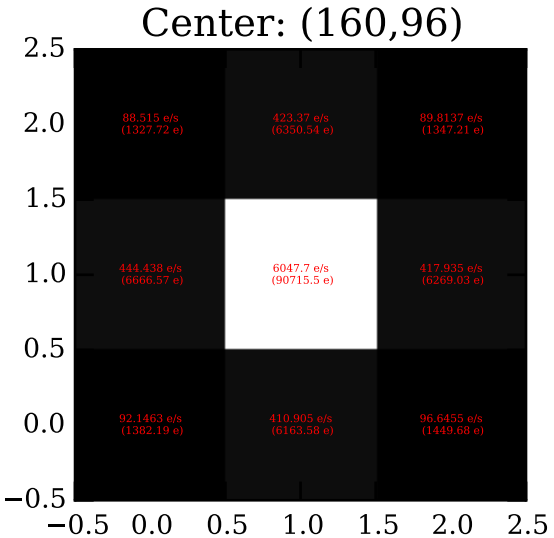

C2 spots after NL correction
-2.2e-05 +/-
2.98e-10
5.12e-07 +/-
2.59e-12
1.39e-05 +/-
7.87e-10
-4.11e-07 +/-
5.57e-13
-1.96e-09 +/-
2.5e-17
-4.4e-07 +/-
1.2e-12
7.92e-06 +/-
3.74e-10
-7.36e-07 +/-
2.71e-12
-3.32e-05 +/-
6.54e-10

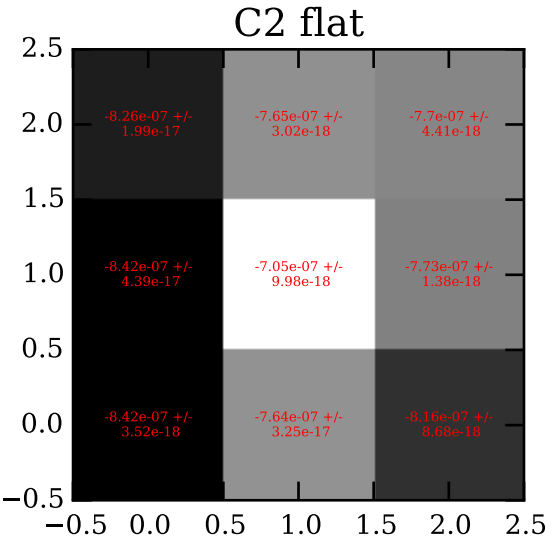

6043.88 electrons.
Position: (160,97)
Fractional NL
(after NL correction)
0.04
0.02
0.00
−0.02
−0.04
−0.06
−0.08
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

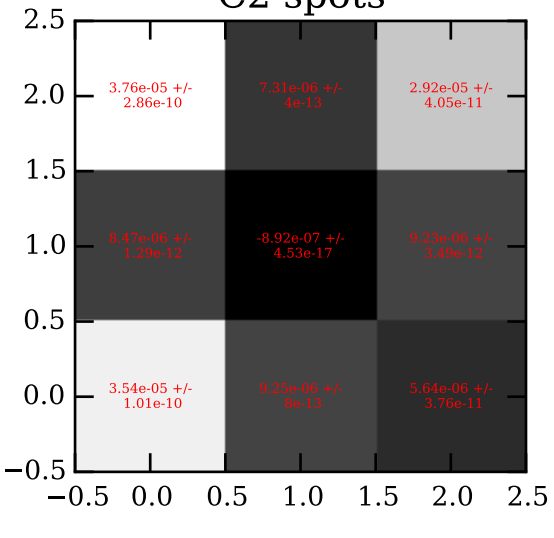

92560.5 electrons.
Position: (160,96)
Fractional NL
(after NL correction)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
−0.01
−0.02
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

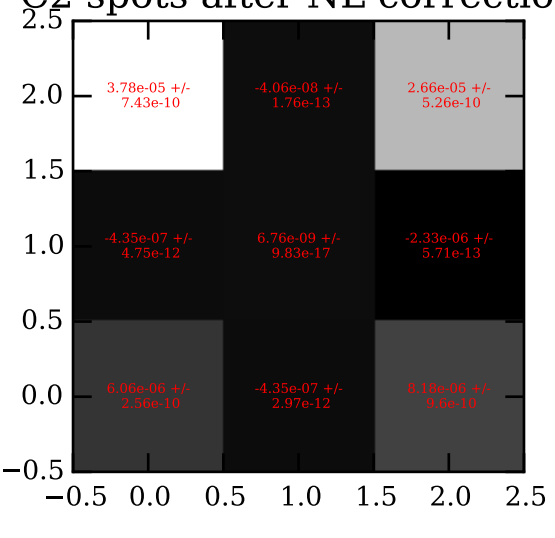

5908.07 electrons.
Position: (161,96)
Fractional NL
(after NL correction)
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
−1.4
−1.6
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

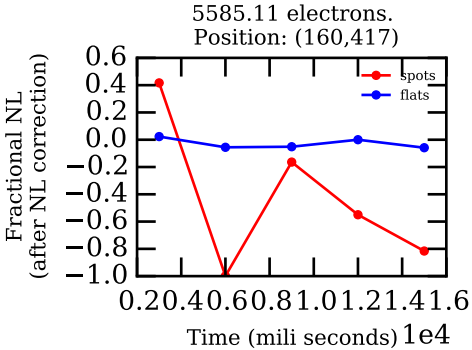

5810.99 electrons.
Position: (160,95)
Fractional NL
(after NL correction)
0.2
0.0
−0.2
−0.4
−0.6
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

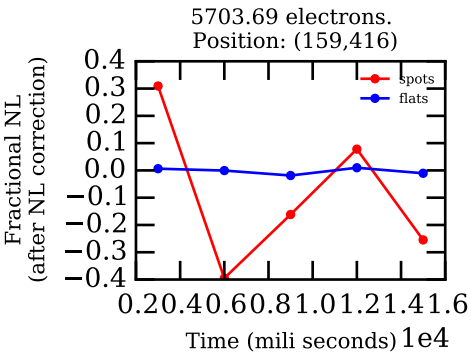

Center: (160,96)
88.515 e/s
(1327.72 e)
423.37 e/s
(6350.54 e)
89.8137 e/s
(1347.21 e)
444.438 e/s
(6666.57 e)
6047.7 e/s
(90715.5 e)
417.935 e/s
(6269.03 e)
92.1463 e/s
(1382.19 e)
410.905 e/s
(6163.58 e)
96.6455 e/s
(1449.68 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

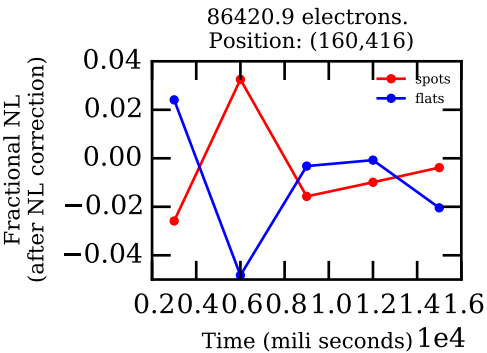

C2 flat
-8.26e-07 +/-
1.99e-17
-7.65e-07 +/-
3.02e-18
-7.7e-07 +/-
4.41e-18
-8.42e-07 +/-
4.39e-17
-7.05e-07 +/-
9.98e-18
-7.73e-07 +/-
1.38e-18
-8.42e-07 +/-
3.52e-18
-7.64e-07 +/-
3.25e-17
-8.16e-07 +/-
8.68e-18
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

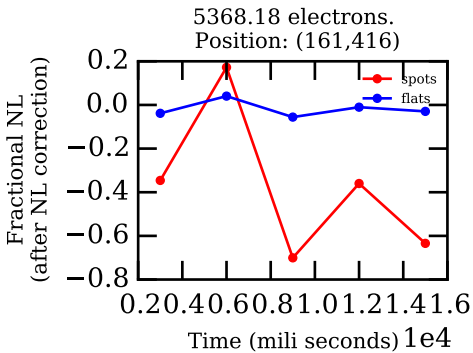

C2 spots
3.76e-05 +/-
2.86e-10
7.31e-06 +/-
4e-13
2.92e-05 +/-
4.05e-11
8.47e-06 +/-
1.29e-12
-8.92e-07 +/-
4.53e-17
9.23e-06 +/-
3.49e-12
3.54e-05 +/-
1.01e-10
9.25e-06 +/-
8e-13
5.64e-06 +/-
3.76e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

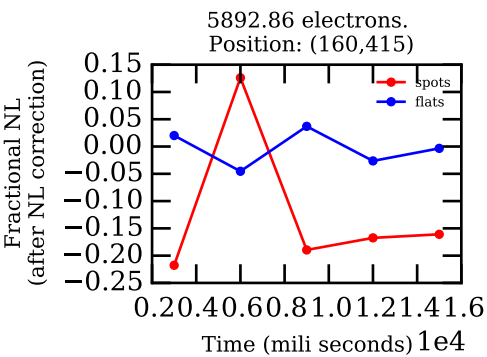

C2 spots after NL correction
3.78e-05 +/-
7.43e-10
-4.06e-08 +/-
1.76e-13
2.66e-05 +/-
5.26e-10
-4.35e-07 +/-
4.75e-12
6.76e-09 +/-
9.83e-17
-2.33e-06 +/-
5.71e-13
6.06e-06 +/-
2.56e-10
-4.35e-07 +/-
2.97e-12
8.18e-06 +/-
9.6e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

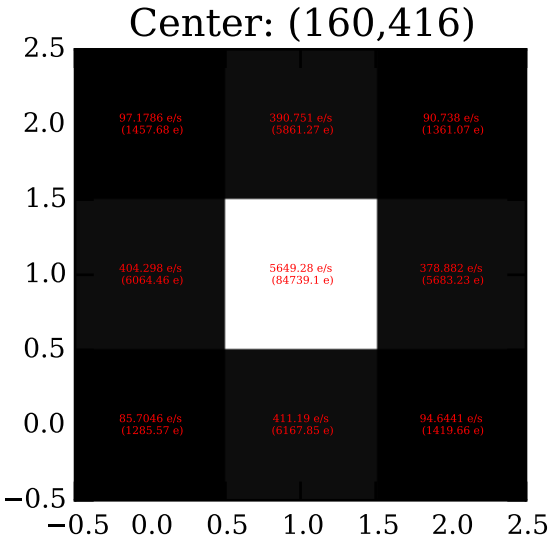

5585.11 electrons.
Position: (160,417)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

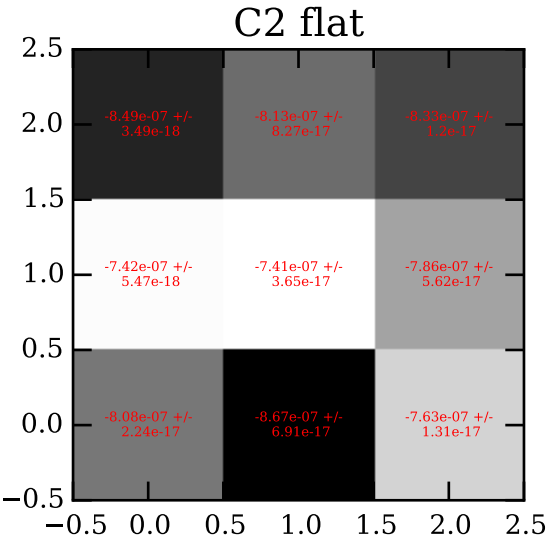

5703.69 electrons.
Position: (159,416)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

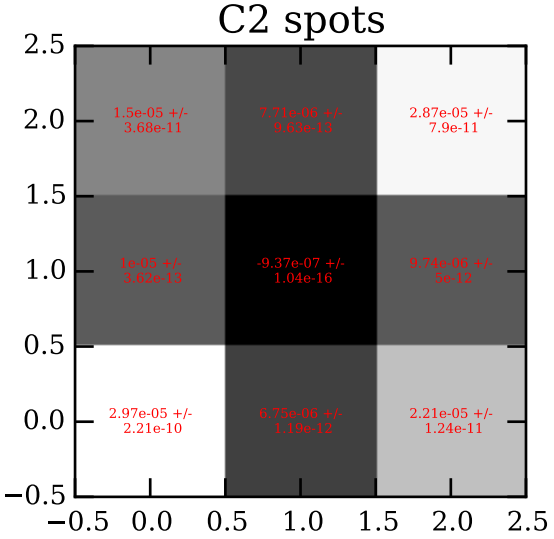

86420.9 electrons.
Position: (160,416)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

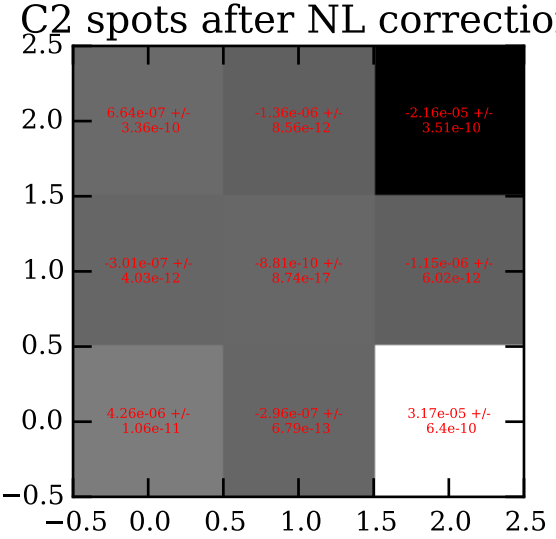

5368.18 electrons.
Position: (161,416)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

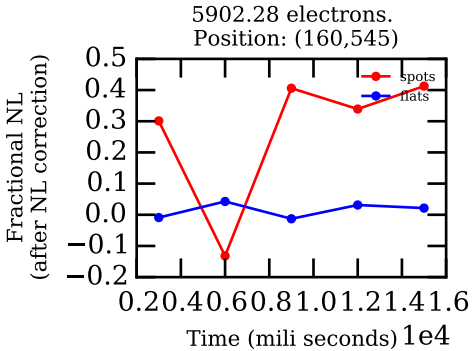

5892.86 electrons.
Position: (160,415)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

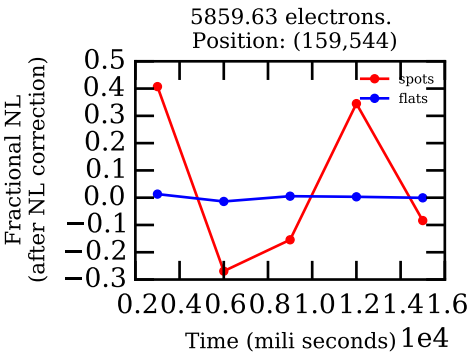

Center: (160,416)
97.1786 e/s
(1457.68 e)
390.751 e/s
(5861.27 e)
90.738 e/s
(1361.07 e)
404.298 e/s
(6064.46 e)
5649.28 e/s
(84739.1 e)
378.882 e/s
(5683.23 e)
85.7046 e/s
(1285.57 e)
411.19 e/s
(6167.85 e)
94.6441 e/s
(1419.66 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

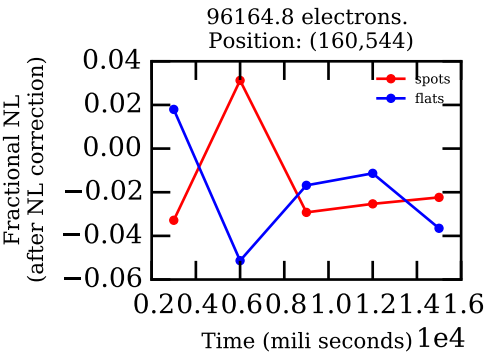

C2 flat
-8.49e-07 +/-
3.49e-18
-8.13e-07 +/-
8.27e-17
-8.33e-07 +/-
1.2e-17
-7.42e-07 +/-
5.47e-18
-7.41e-07 +/-
3.65e-17
-7.86e-07 +/-
5.62e-17
-8.08e-07 +/-
2.24e-17
-8.67e-07 +/-
6.91e-17
-7.63e-07 +/-
1.31e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

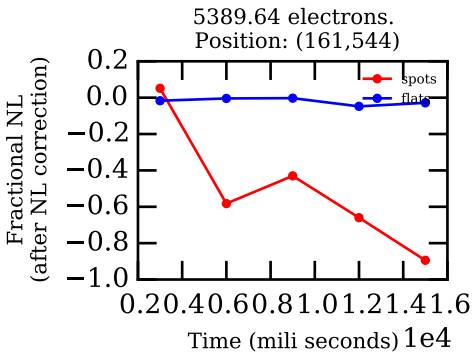

C2 spots
1.5e-05 +/-
3.68e-11
7.71e-06 +/-
9.63e-13
2.87e-05 +/-
7.9e-11
1e-05 +/-
3.62e-13
-9.37e-07 +/-
1.04e-16
9.75e-06 +/-
5e-12
2.97e-05 +/-
2.21e-10
6.75e-06 +/-
1.19e-12
2.21e-05 +/-
1.24e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

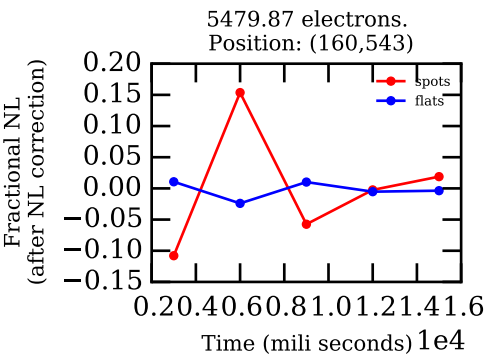

C2 spots after NL correction
6.64e-07 +/-
3.36e-10
-1.36e-06 +/-
8.56e-12
-2.16e-05 +/-
3.51e-10
-3.01e-07 +/-
4.03e-12
-8.81e-10 +/-
8.74e-17
-1.15e-06 +/-
6.02e-12
4.26e-06 +/-
1.06e-11
-2.96e-07 +/-
6.79e-13
3.17e-05 +/-
6.4e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

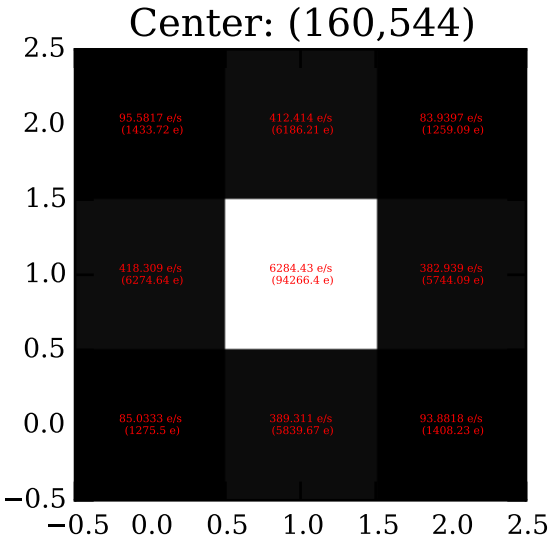

5902.28 electrons.
Position: (160,545)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

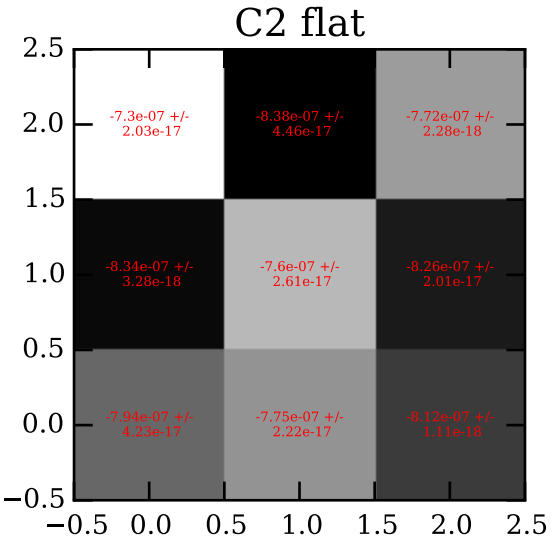

5859.63 electrons.
Position: (159,544)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

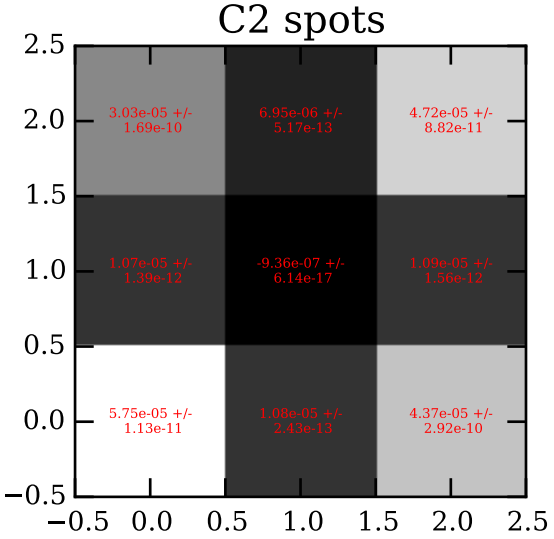

96164.8 electrons.
Position: (160,544)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

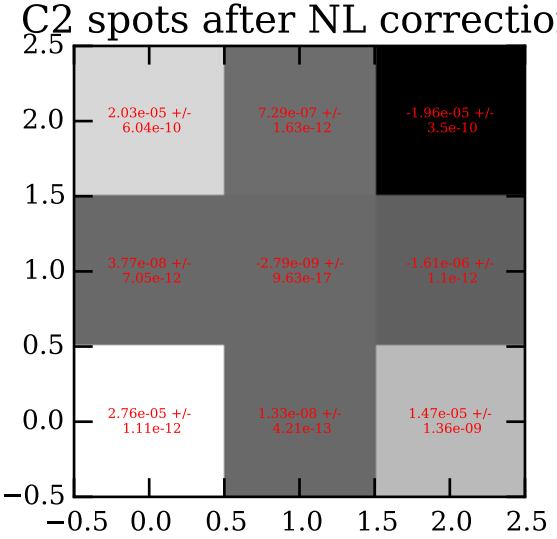

5389.64 electrons.
Position: (161,544)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

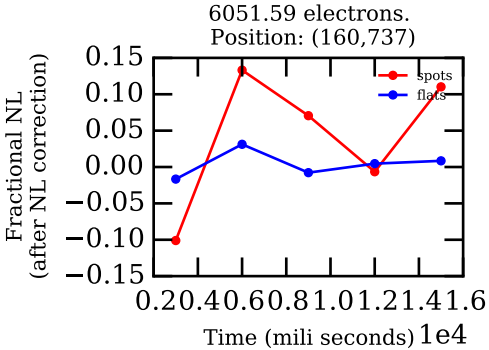

5479.87 electrons.
Position: (160,543)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

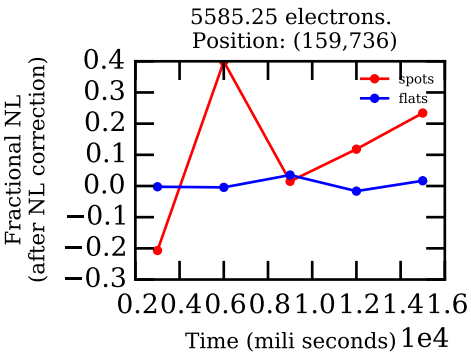

Center: (160,544)
95.5817 e/s
(1433.72 e)
412.414 e/s
(6186.21 e)
83.9397 e/s
(1259.09 e)
418.309 e/s
(6274.64 e)
6284.43 e/s
(94266.4 e)
382.939 e/s
(5744.09 e)
85.0333 e/s
(1275.5 e)
389.311 e/s
(5839.67 e)
93.8818 e/s
(1408.23 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

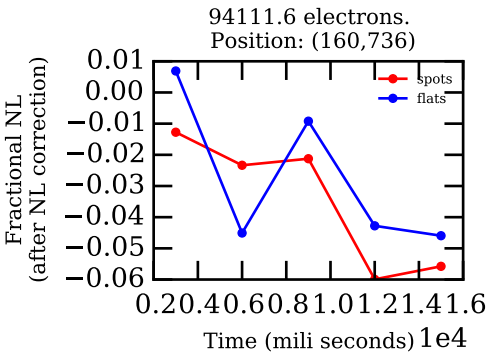

C2 flat
-7.3e-07 +/-
2.03e-17
-8.38e-07 +/-
4.46e-17
-7.72e-07 +/-
2.28e-18
-8.34e-07 +/-
3.28e-18
-7.6e-07 +/-
2.61e-17
-8.26e-07 +/-
2.01e-17
-7.94e-07 +/-
4.23e-17
-7.75e-07 +/-
2.22e-17
-8.12e-07 +/-
1.11e-18
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

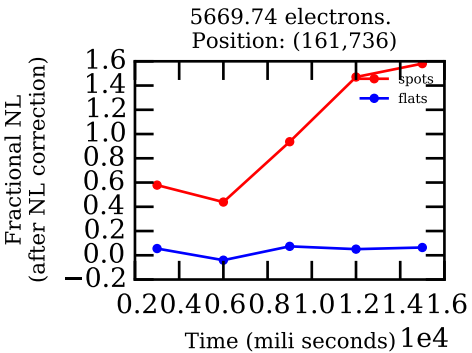

C2 spots
3.03e-05 +/-
1.69e-10
6.95e-06 +/-
5.17e-13
4.72e-05 +/-
8.82e-11
1.07e-05 +/-
1.39e-12
-9.36e-07 +/-
6.14e-17
1.09e-05 +/-
1.56e-12
5.75e-05 +/-
1.13e-11
1.08e-05 +/-
2.43e-13
4.37e-05 +/-
2.92e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

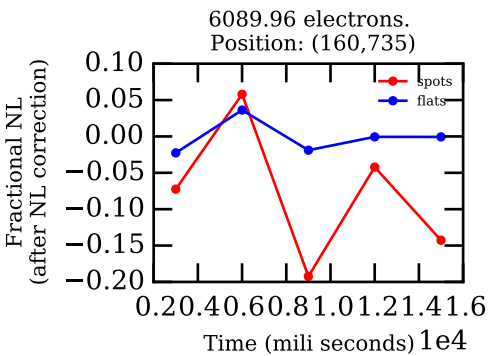

C2 spots after NL correction
2.03e-05 +/-
6.04e-10
7.29e-07 +/-
1.63e-12
-1.96e-05 +/-
3.5e-10
3.77e-08 +/-
7.05e-12
-2.79e-09 +/-
9.63e-17
-1.61e-06 +/-
1.1e-12
2.76e-05 +/-
1.11e-12
1.33e-08 +/-
4.21e-13
1.47e-05 +/-
1.36e-09
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

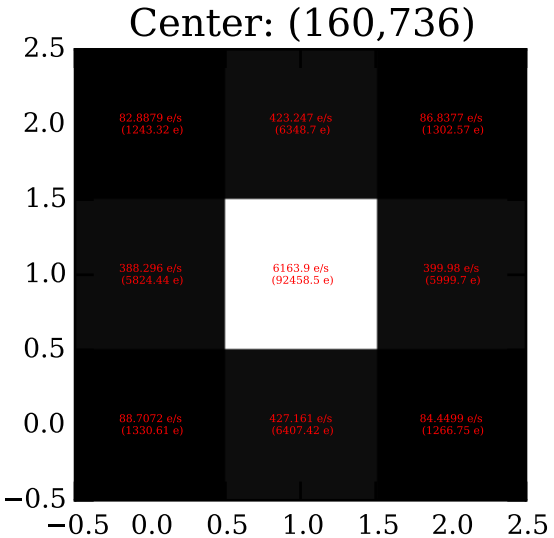

6051.59 electrons.
Position: (160,737)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

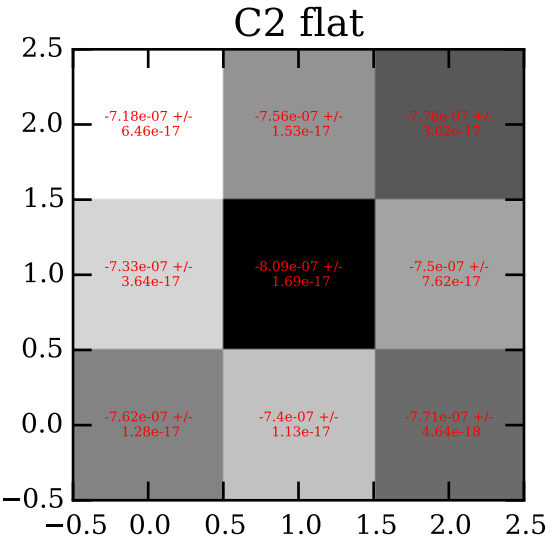

5585.25 electrons.
Position: (159,736)
Fractional NL
(after NL correction)
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

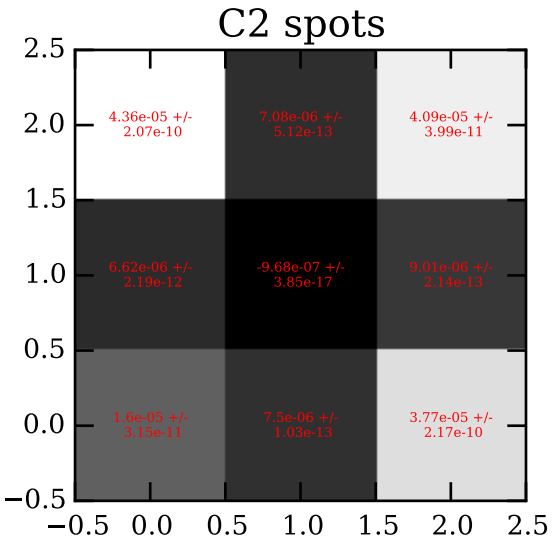

94111.6 electrons.
Position: (160,736)
Fractional NL
(after NL correction)
0.01
0.00
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

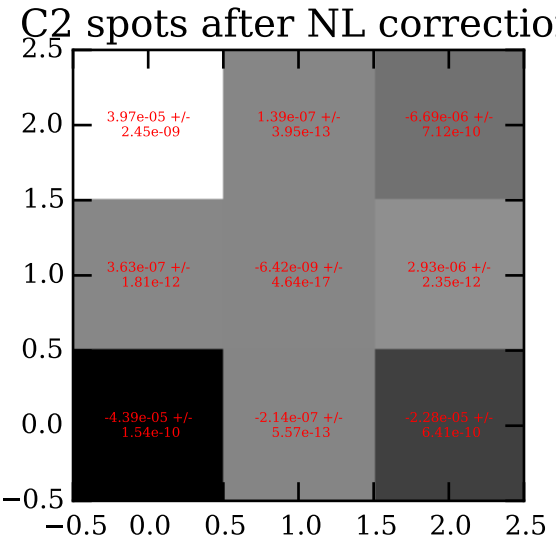

5669.74 electrons.
Position: (161,736)
Fractional NL
(after NL correction)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

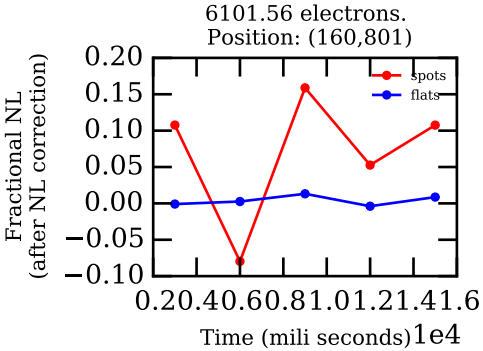

6089.96 electrons.
Position: (160,735)
Fractional NL
(after NL correction)
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

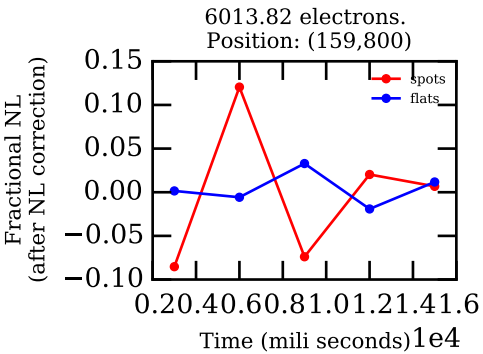

Center: (160,736)
82.8879 e/s
(1243.32 e)
423.247 e/s
(6348.7 e)
86.8377 e/s
(1302.57 e)
388.296 e/s
(5824.44 e)
6163.9 e/s
(92458.5 e)
399.98 e/s
(5999.7 e)
88.7072 e/s
(1330.61 e)
427.161 e/s
(6407.42 e)
84.4499 e/s
(1266.75 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

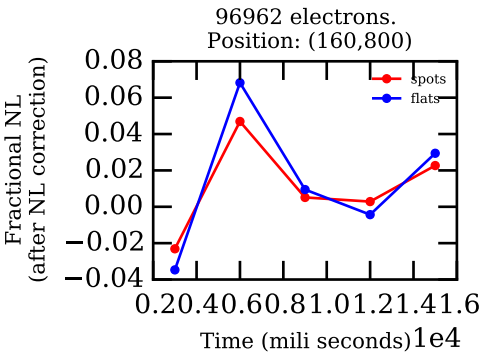

C2 flat
-7.18e-07 +/-
6.46e-17
-7.56e-07 +/-
1.53e-17
-7.78e-07 +/-
3.02e-17
-7.33e-07 +/-
3.64e-17
-8.09e-07 +/-
1.69e-17
-7.5e-07 +/-
7.62e-17
-7.62e-07 +/-
1.28e-17
-7.4e-07 +/-
1.13e-17
-7.71e-07 +/-
4.64e-18
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

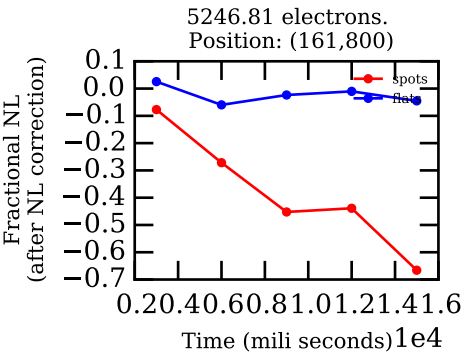

C2 spots
4.36e-05 +/-
2.07e-10
7.08e-06 +/-
5.12e-13
4.09e-05 +/-
3.99e-11
6.62e-06 +/-
2.19e-12
-9.68e-07 +/-
3.85e-17
9.01e-06 +/-
2.14e-13
1.6e-05 +/-
3.15e-11
7.5e-06 +/-
1.03e-13
3.77e-05 +/-
2.17e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

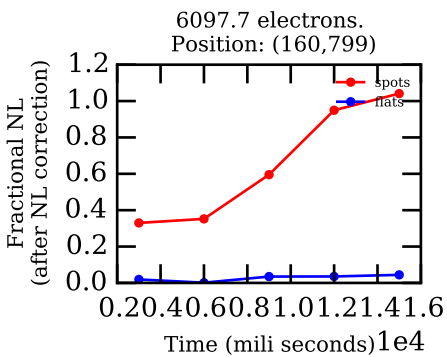

C2 spots after NL correction
3.97e-05 +/-
2.45e-09
1.39e-07 +/-
3.95e-13
-6.69e-06 +/-
7.12e-10
3.63e-07 +/-
1.81e-12
-6.42e-09 +/-
4.64e-17
2.93e-06 +/-
2.35e-12
-4.39e-05 +/-
1.54e-10
-2.14e-07 +/-
5.57e-13
-2.28e-05 +/-
6.41e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

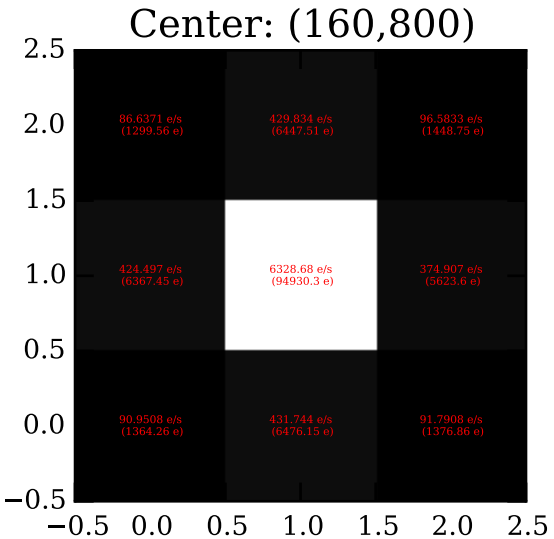

6101.56 electrons.
Position: (160,801)
Fractional NL
(after NL correction)
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

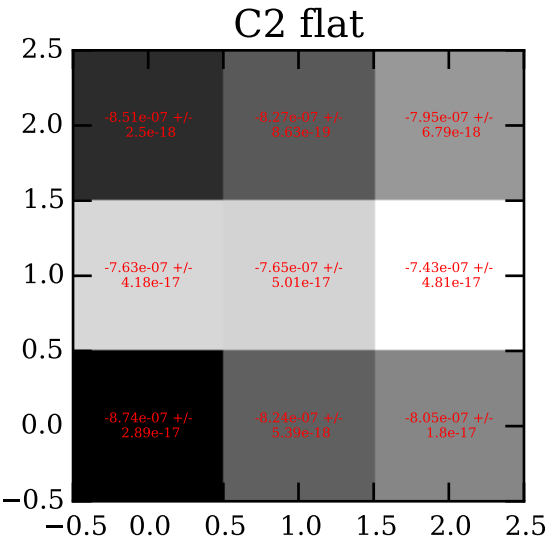

6013.82 electrons.
Position: (159,800)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
−0.10
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

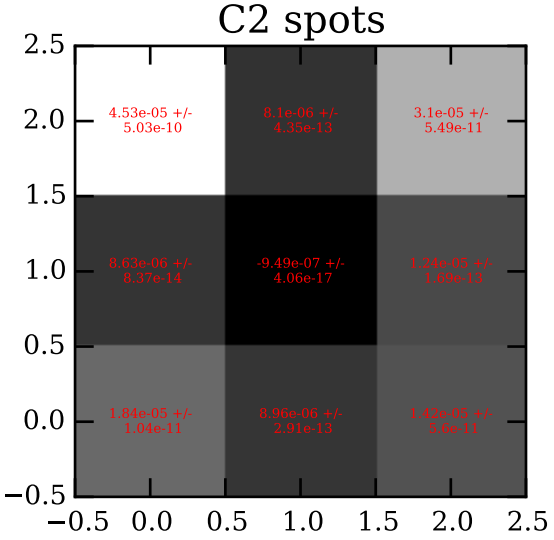

96962 electrons.
Position: (160,800)
Fractional NL
(after NL correction)
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

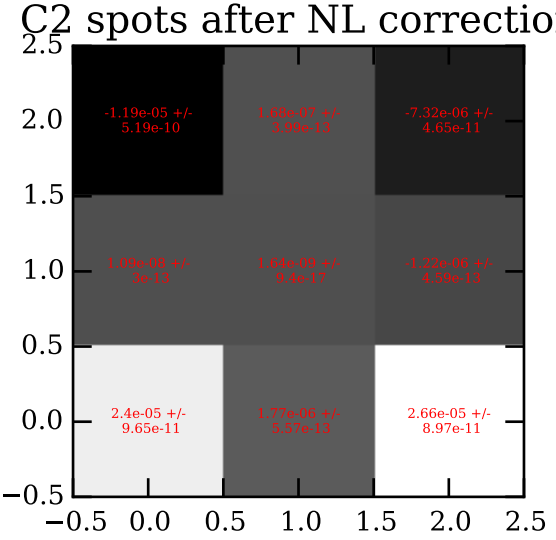

5246.81 electrons.
Position: (161,800)
Fractional NL
(after NL correction)
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

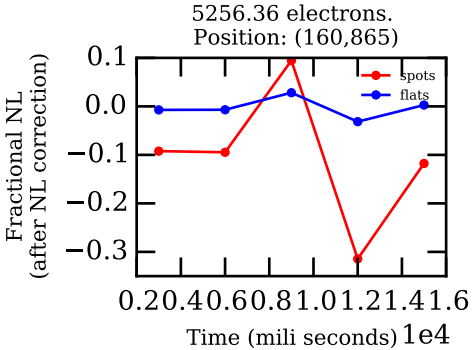

6097.7 electrons.
Position: (160,799)
Fractional NL
(after NL correction)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

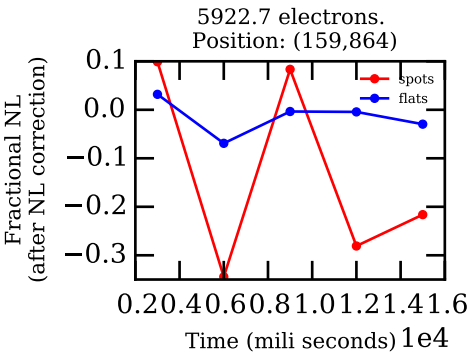

Center: (160,800)
86.6371 e/s
(1299.56 e)
429.834 e/s
(6447.51 e)
96.5833 e/s
(1448.75 e)
424.497 e/s
(6367.45 e)
6328.68 e/s
(94930.3 e)
374.907 e/s
(5623.6 e)
90.9508 e/s
(1364.26 e)
431.744 e/s
(6476.15 e)
91.7908 e/s
(1376.86 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

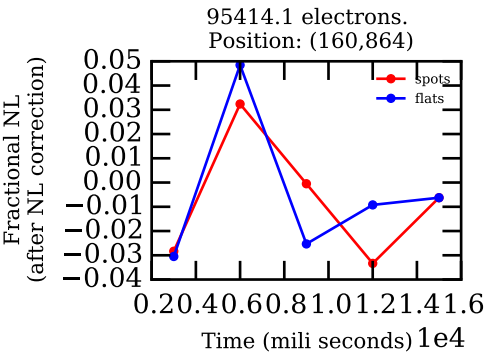

C2 flat
-8.51e-07 +/-
2.5e-18
-8.27e-07 +/-
8.63e-19
-7.95e-07 +/-
6.79e-18
-7.63e-07 +/-
4.18e-17
-7.65e-07 +/-
5.01e-17
-7.43e-07 +/-
4.81e-17
-8.74e-07 +/-
2.89e-17
-8.24e-07 +/-
5.39e-18
-8.05e-07 +/-
1.8e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

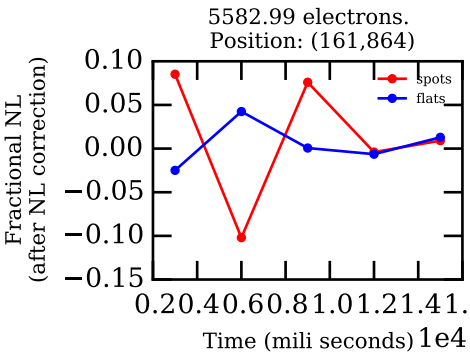

C2 spots
4.53e-05 +/-
5.03e-10
8.1e-06 +/-
4.35e-13
3.1e-05 +/-
5.49e-11
8.63e-06 +/-
8.37e-14
-9.49e-07 +/-
4.06e-17
1.24e-05 +/-
1.69e-13
1.84e-05 +/-
1.04e-11
8.96e-06 +/-
2.91e-13
1.42e-05 +/-
2.6e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

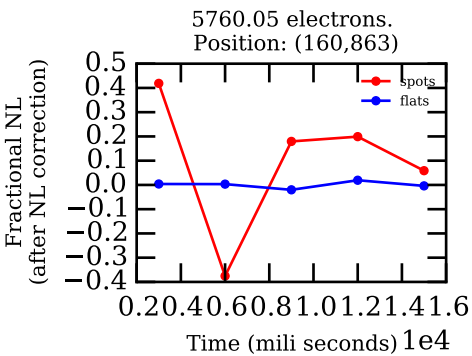

C2 spots after NL correction
-1.19e-05 +/-
5.19e-10
1.48e-07 +/-
2.99e-13
-7.32e-06 +/-
4.65e-11
1.09e-08 +/-
3e-13
1.84e-09 +/-
9.4e-17
-1.22e-06 +/-
4.59e-13
2.4e-05 +/-
9.65e-11
1.77e-06 +/-
3.57e-13
2.66e-05 +/-
8.97e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

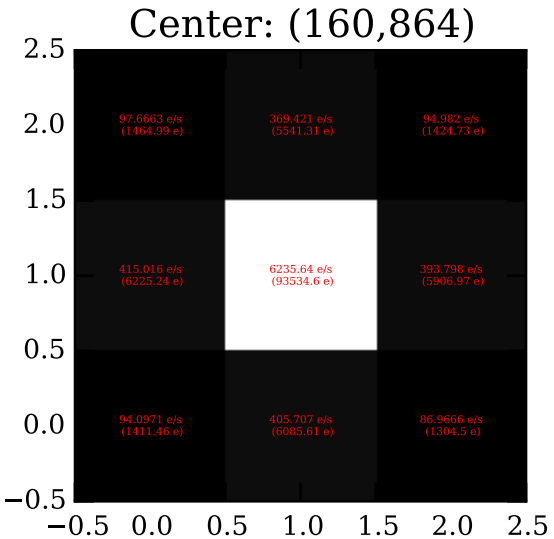

5256.36 electrons.
Position: (160,865)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

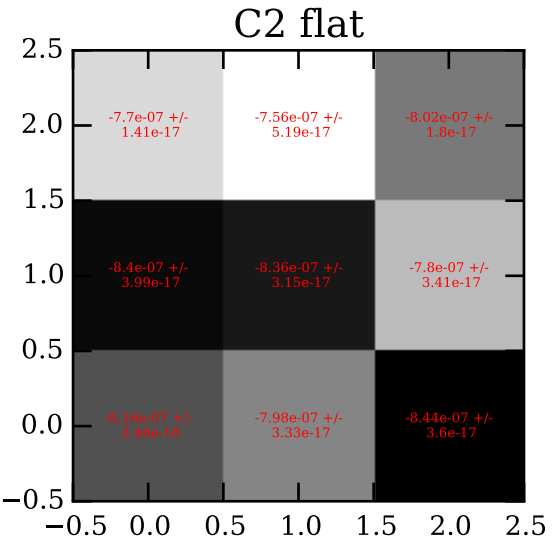

5922.7 electrons.
Position: (159,864)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

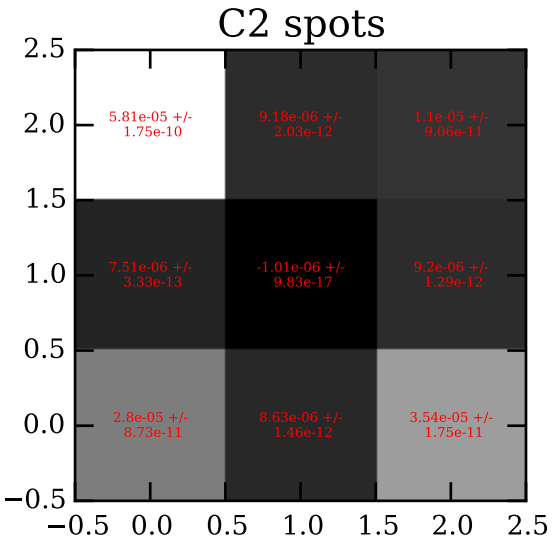

95414.1 electrons.
Position: (160,864)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

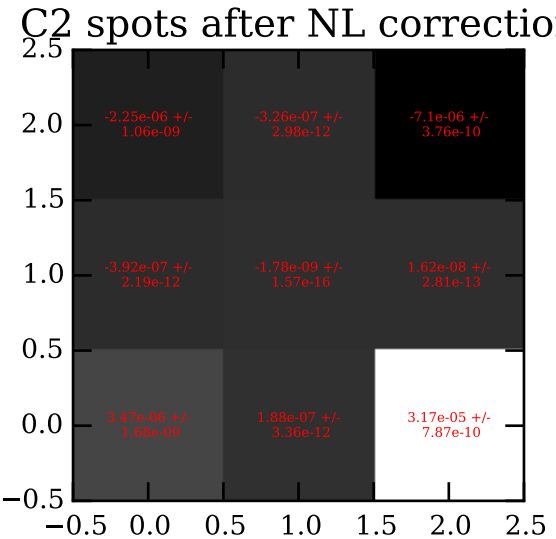

5582.99 electrons.
Position: (161,864)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

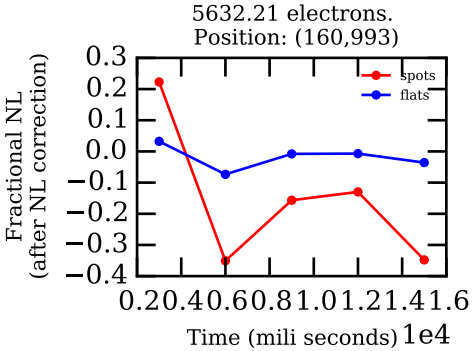

5760.05 electrons.
Position: (160,863)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

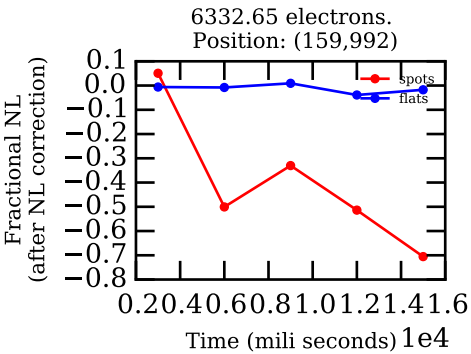

Center: (160,864)
97.6663 e/s
(1464.99 e)
369.421 e/s
(5541.31 e)
94.982 e/s
(1424.73 e)
415.016 e/s
(6225.24 e)
6235.64 e/s
(93534.6 e)
393.798 e/s
(5906.97 e)
94.0971 e/s
(1411.46 e)
405.707 e/s
(6085.61 e)
86.9666 e/s
(1304.5 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

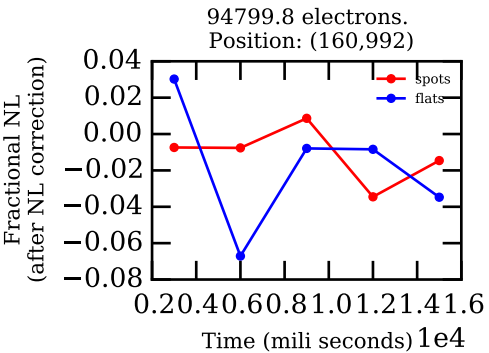

C2 flat
-7.7e-07 +/-
1.41e-17
-7.56e-07 +/-
5.19e-17
-8.02e-07 +/-
1.8e-17
-8.4e-07 +/-
3.99e-17
-8.36e-07 +/-
3.15e-17
-7.8e-07 +/-
3.41e-17
-8.16e-07 +/-
3.46e-17
-7.98e-07 +/-
3.33e-17
-8.44e-07 +/-
3.6e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

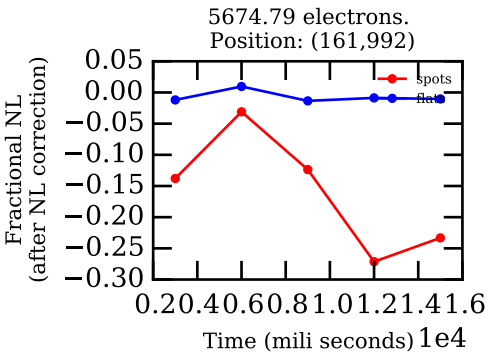

C2 spots
5.81e-05 +/-
1.75e-10
9.18e-06 +/-
2.03e-12
1.1e-05 +/-
9.06e-11
7.51e-06 +/-
3.33e-13
-1.01e-06 +/-
9.83e-17
9.2e-06 +/-
1.29e-12
2.8e-05 +/-
8.73e-11
8.63e-06 +/-
1.46e-12
3.54e-05 +/-
1.75e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

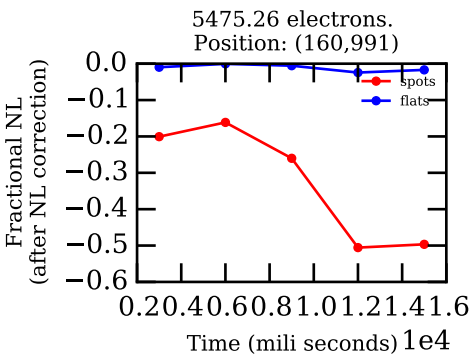

C2 spots after NL correction
-2.25e-06 +/-
1.06e-09
-3.26e-07 +/-
2.98e-12
-7.1e-06 +/-
3.76e-10
-3.92e-07 +/-
2.19e-12
-1.78e-09 +/-
1.57e-16
1.62e-08 +/-
2.81e-13
3.47e-06 +/-
1.68e-09
1.88e-07 +/-
3.36e-12
3.17e-05 +/-
7.87e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

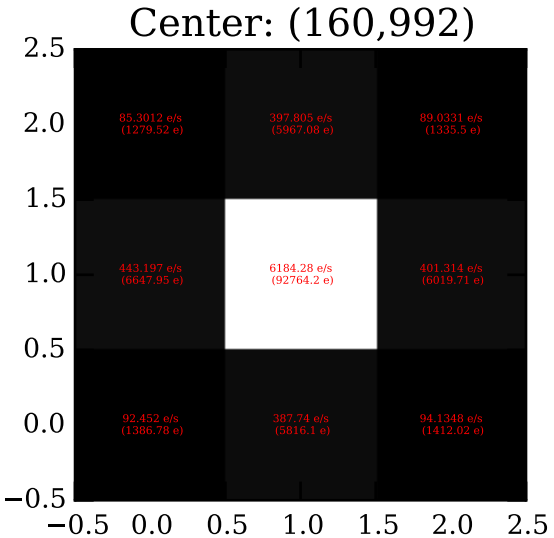

5632.21 electrons.
Position: (160,993)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

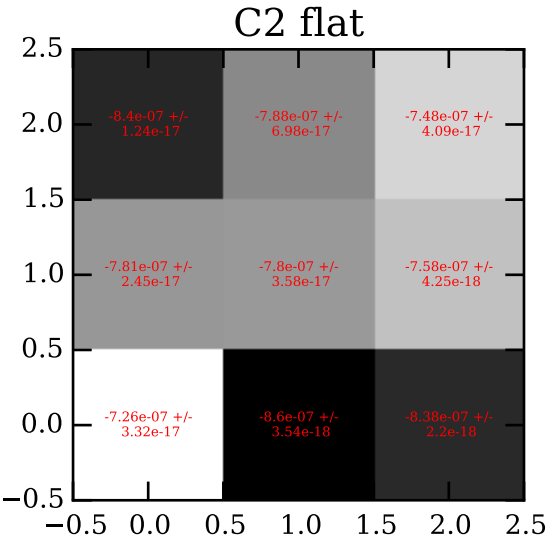

6332.65 electrons.
Position: (159,992)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

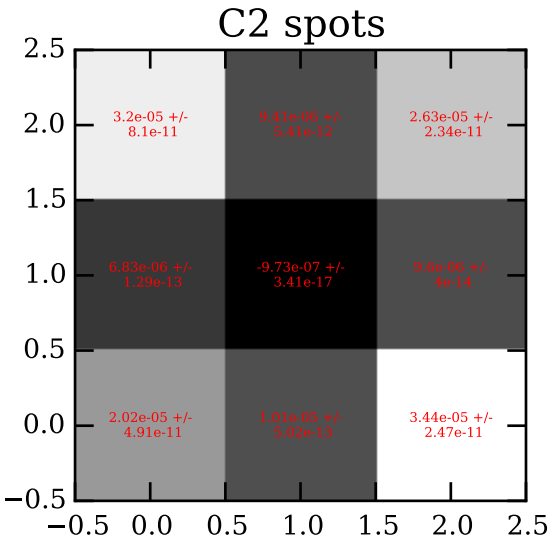

94799.8 electrons.
Position: (160,992)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

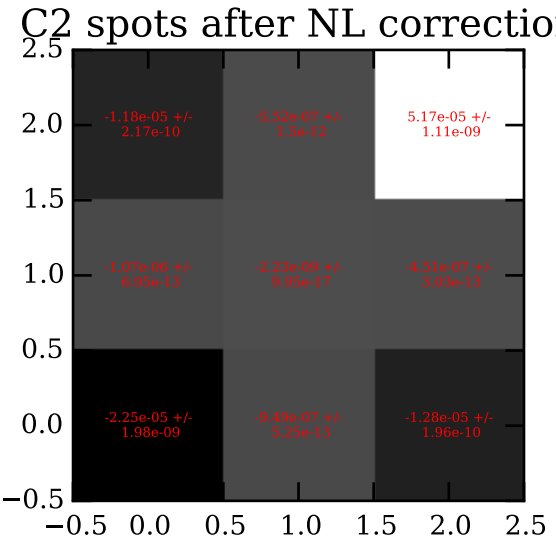

5674.79 electrons.
Position: (161,992)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

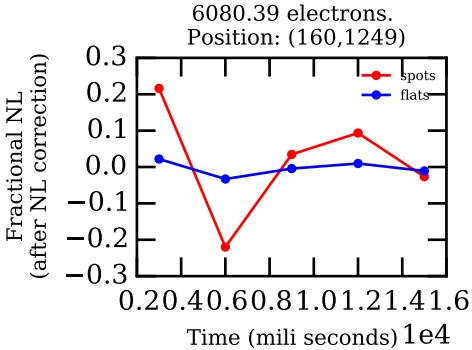

5475.26 electrons.
Position: (160,991)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

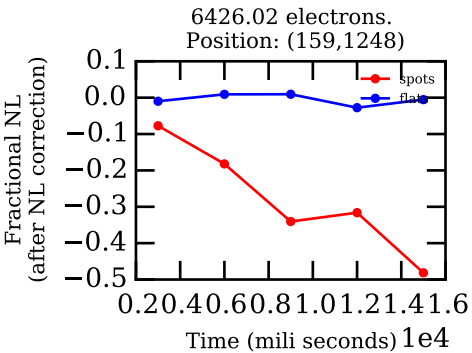

Center: (160,992)
85.3012 e/s
(1279.52 e)
397.805 e/s
(5967.08 e)
89.0331 e/s
(1335.5 e)
443.197 e/s
(6647.95 e)
6184.28 e/s
(92764.2 e)
401.314 e/s
(6019.71 e)
92.452 e/s
(1386.78 e)
387.74 e/s
(5816.1 e)
94.1348 e/s
(1412.02 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

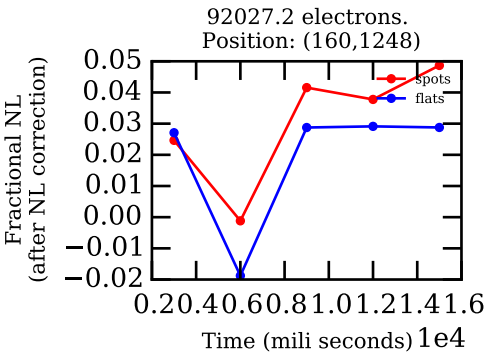

C2 flat
-8.4e-07 +/-
1.24e-17
-7.88e-07 +/-
6.98e-17
-7.48e-07 +/-
4.09e-17
-7.81e-07 +/-
2.45e-17
-7.8e-07 +/-
3.58e-17
-7.58e-07 +/-
4.25e-18
-7.26e-07 +/-
3.32e-17
-8.6e-07 +/-
3.54e-18
-8.38e-07 +/-
2.2e-18
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

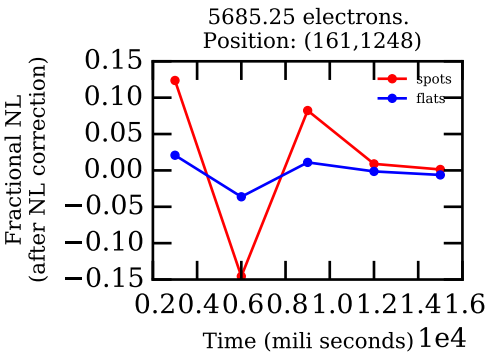

C2 spots
3.2e-05 +/-
8.1e-11
9.41e-06 +/-
5.41e-12
2.63e-05 +/-
2.34e-11
6.83e-06 +/-
1.29e-13
-9.73e-07 +/-
3.41e-17
9.6e-06 +/-
4e-14
2.02e-05 +/-
4.91e-11
1.01e-05 +/-
3.05e-13
3.44e-05 +/-
2.47e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

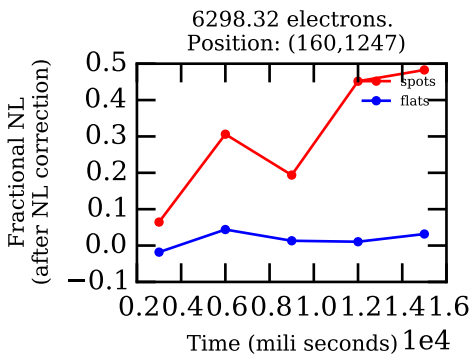

C2 spots after NL correction
-1.18e-05 +/-
2.17e-10
-5.52e-07 +/-
1.5e-12
5.17e-05 +/-
1.11e-09
-1.07e-06 +/-
6.95e-13
-2.23e-09 +/-
8.85e-17
-4.51e-07 +/-
3.03e-13
-2.25e-05 +/-
1.98e-09
-9.49e-07 +/-
5.25e-13
-1.28e-05 +/-
1.96e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

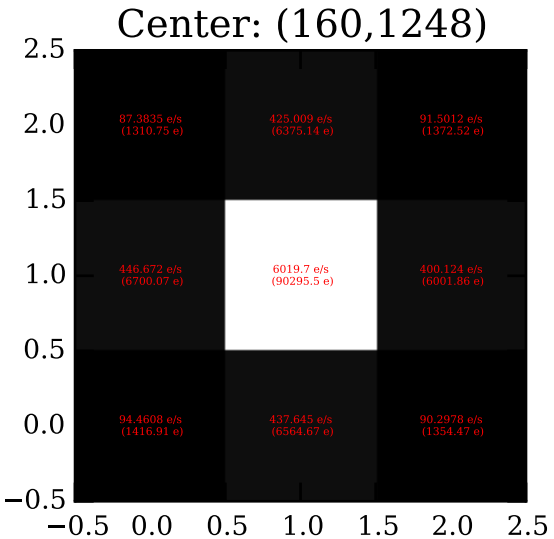

6080.39 electrons.
Position: (160,1249)
Fractional NL
(after NL correction)
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

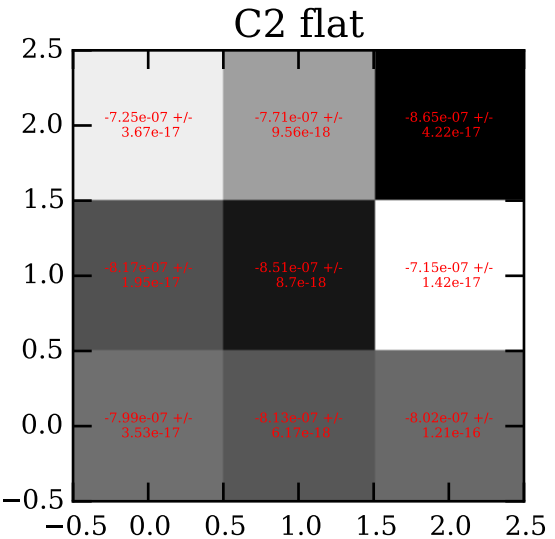

6426.02 electrons.
Position: (159,1248)
Fractional NL
(after NL correction)
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

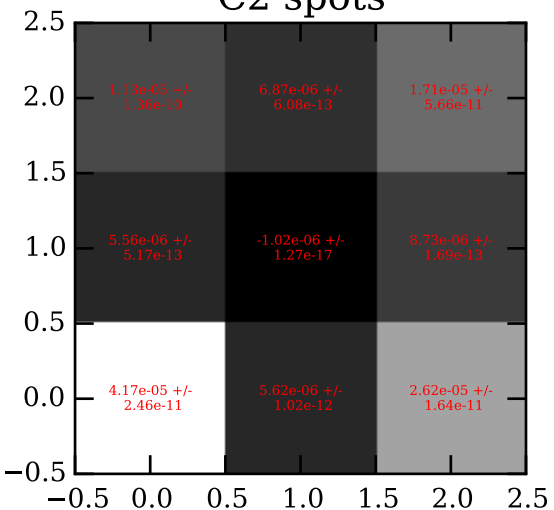

92027.2 electrons.
Position: (160,1248)
Fractional NL
(after NL correction)
0.05
0.04
0.03
0.02
0.01
0.00
−0.01
−0.02
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

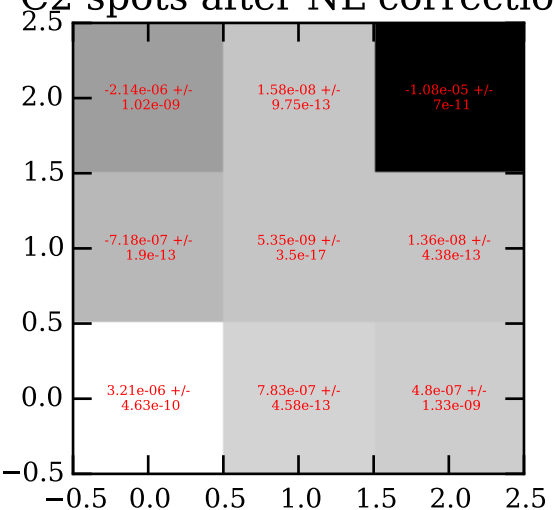

5685.25 electrons.
Position: (161,1248)
Fractional NL
(after NL correction)
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

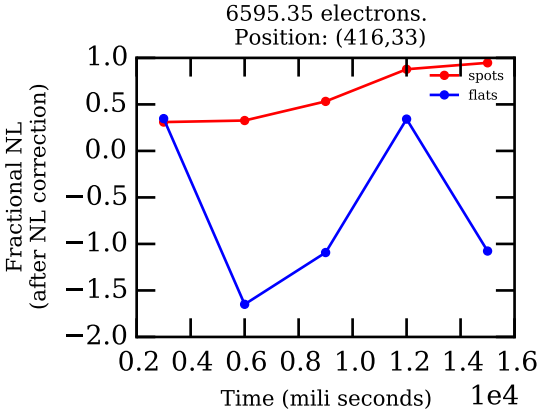

6298.32 electrons.
Position: (160,1247)
Fractional NL
(after NL correction)
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

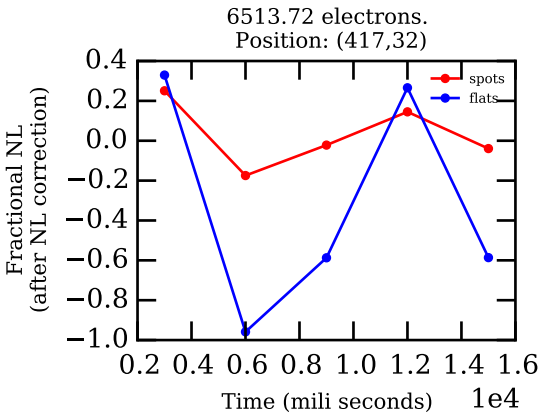

Center: (160,1248)
87.3835 e/s
(1310.75 e)
425.009 e/s
(6375.14 e)
91.5012 e/s
(1372.52 e)
446.672 e/s
(6700.07 e)
6019.7 e/s
(90295.5 e)
400.124 e/s
(6001.86 e)
94.4608 e/s
(1416.91 e)
437.645 e/s
(6564.67 e)
90.2978 e/s
(1354.47 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

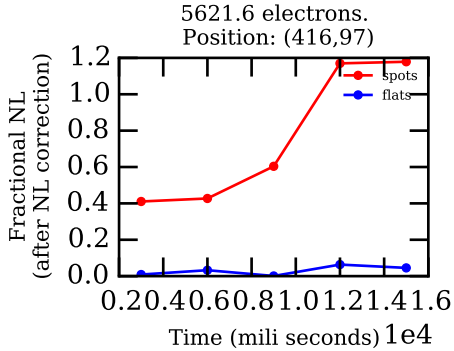

C2 flat
-7.25e-07 +/-
3.67e-17
-7.71e-07 +/-
9.56e-18
-8.65e-07 +/-
4.22e-17
-8.17e-07 +/-
1.93e-17
-8.51e-07 +/-
8.7e-18
-7.15e-07 +/-
1.42e-17
-7.99e-07 +/-
3.53e-17
-9.12e-07 +/-
6.17e-18
-8.02e-07 +/-
1.21e-16
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

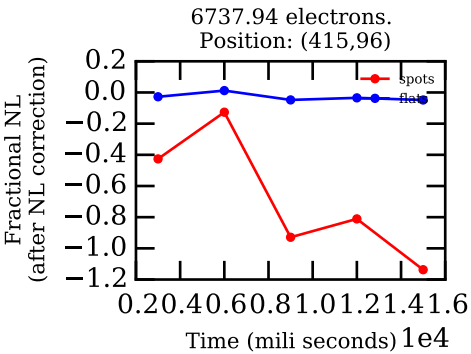

C2 spots
1.13e-05 +/-
1.36e-10
6.87e-06 +/-
6.08e-13
1.71e-05 +/-
5.66e-11
5.56e-06 +/-
5.17e-13
-1.02e-06 +/-
1.27e-17
8.73e-06 +/-
1.69e-13
4.17e-05 +/-
2.46e-11
5.62e-06 +/-
1.02e-12
2.62e-05 +/-
1.64e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

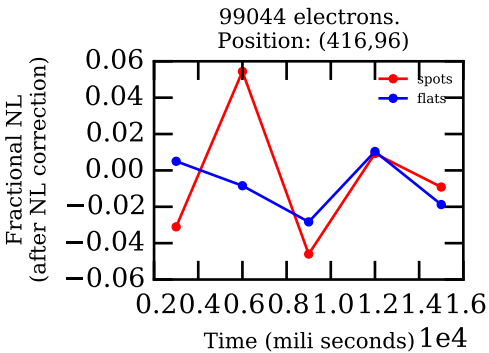

C2 spots after NL correction
-2.14e-06 +/-
1.02e-09
1.58e-08 +/-
9.75e-13
-1.08e-05 +/-
7e-11
-7.18e-07 +/-
1.9e-13
5.35e-09 +/-
3.5e-17
1.36e-08 +/-
4.38e-13
3.21e-06 +/-
4.63e-10
7.83e-07 +/-
4.58e-13
4.8e-07 +/-
1.33e-09
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

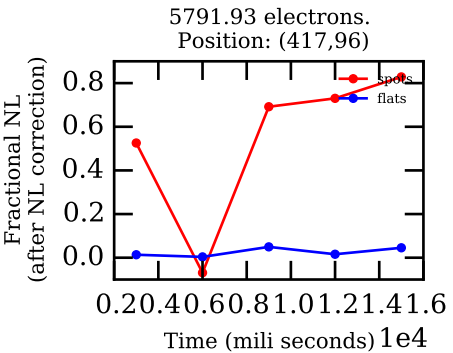

6595.35 electrons.
Position: (416,33)
Fractional NL
(after NL correction)
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

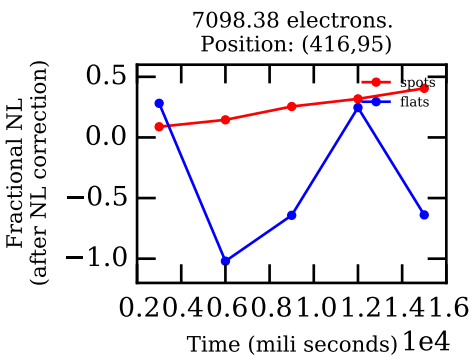

6513.72 electrons.
Position: (417,32)
Fractional NL
(after NL correction)
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds)
1e4

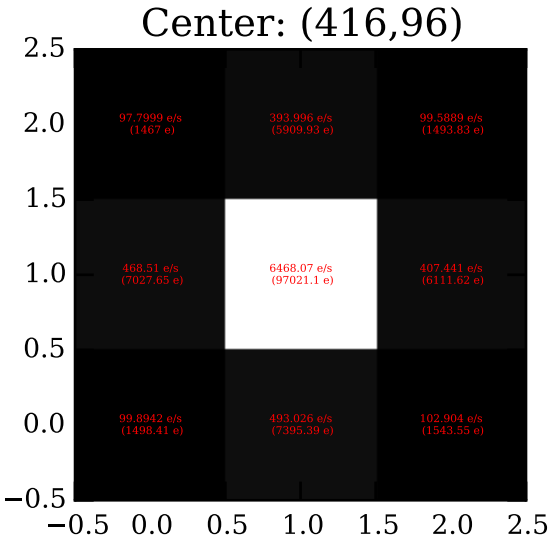

5621.6 electrons.
Position: (416,97)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

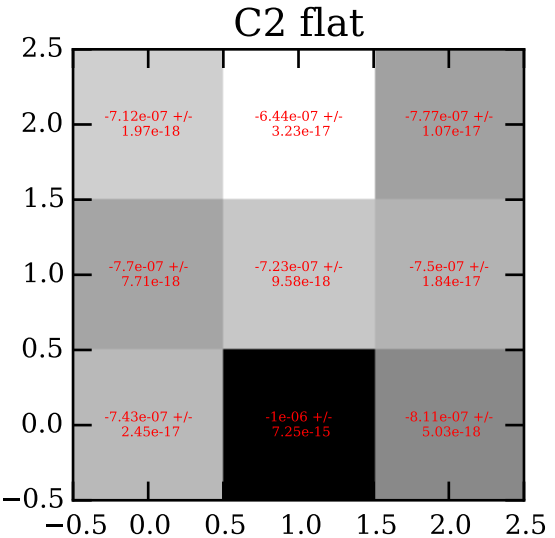

6737.94 electrons.
Position: (415,96)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

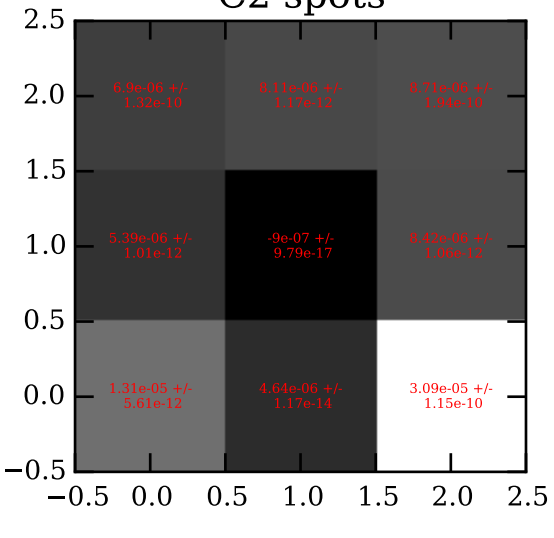

99044 electrons.
Position: (416,96)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

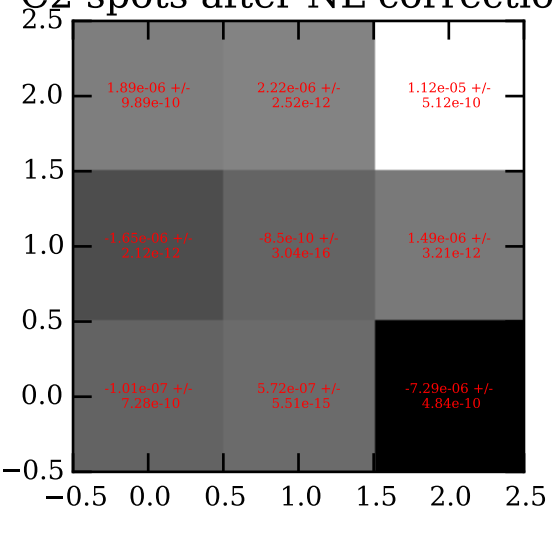

5791.93 electrons.
Position: (417,96)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

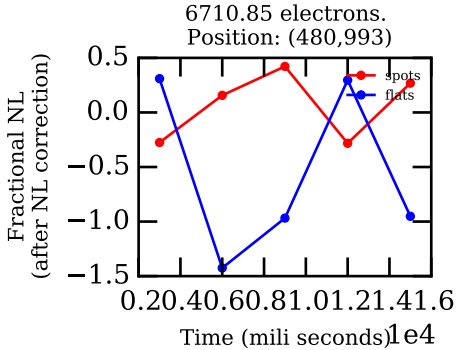

7098.38 electrons.
Position: (416,95)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

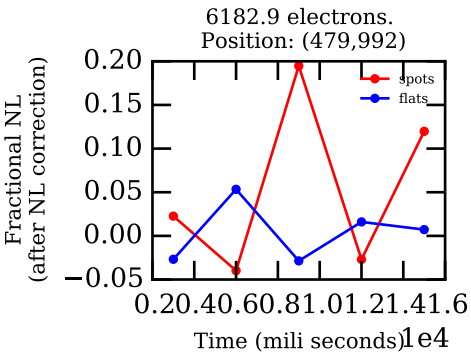

Center: (416,96)
97.7999 e/s
(1467 e)
393.996 e/s
(5909.93 e)
99.5889 e/s
(1493.83 e)
468.51 e/s
(7027.65 e)
6468.07 e/s
(97021.1 e)
407.441 e/s
(6111.62 e)
99.8942 e/s
(1498.41 e)
493.026 e/s
(7395.39 e)
102.904 e/s
(1543.55 e)

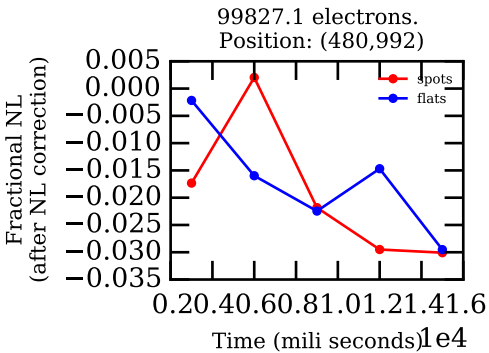

C2 flat
-7.12e-07 +/-
1.97e-18
-6.44e-07 +/-
3.23e-17
-7.77e-07 +/-
1.07e-17
-7.7e-07 +/-
7.71e-18
-7.23e-07 +/-
9.58e-18
-7.5e-07 +/-
1.84e-17
-7.43e-07 +/-
2.45e-17
-1e-06 +/-
7.25e-15
-8.11e-07 +/-
5.03e-18

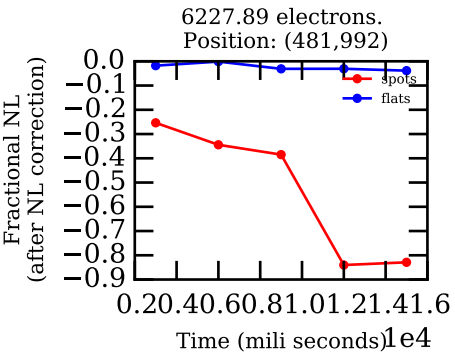

C2 spots
6.9e-06 +/-
1.32e-10
8.11e-06 +/-
1.17e-12
8.71e-06 +/-
1.94e-10
5.39e-06 +/-
1.01e-12
-9e-07 +/-
9.79e-17
8.42e-06 +/-
1.06e-12
1.31e-05 +/-
5.61e-12
4.64e-06 +/-
1.17e-14
3.09e-05 +/-
1.15e-10

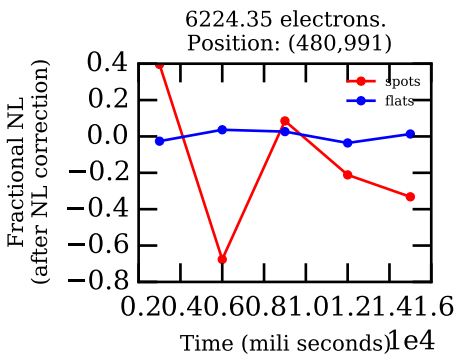

C2 spots after NL correction
1.89e-06 +/-
9.89e-10
2.22e-06 +/-
2.52e-12
1.12e-05 +/-
5.12e-10
-1.65e-06 +/-
2.12e-12
-8.5e-10 +/-
3.94e-10
1.49e-06 +/-
3.21e-12
-1.01e-07 +/-
7.28e-10
5.72e-07 +/-
5.51e-15
-7.29e-06 +/-
4.84e-10

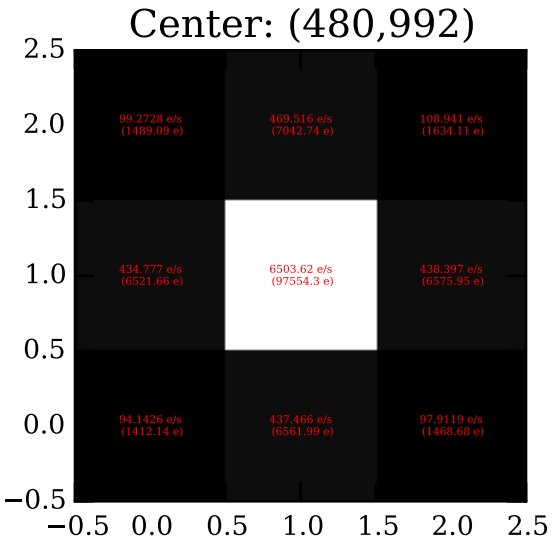

6710.85 electrons.
Position: (480,993)
Fractional NL
(after NL correction)
0.5
0.0
−0.5
−1.0
−1.5
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

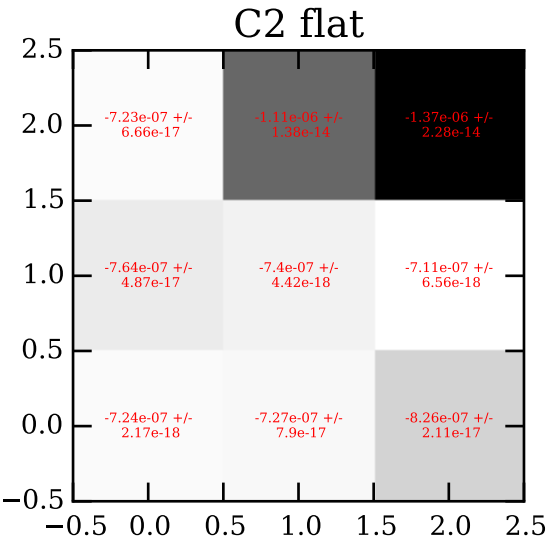

6182.9 electrons.
Position: (479,992)
Fractional NL
(after NL correction)
0.20
0.15
0.10
0.05
0.00
−0.05
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

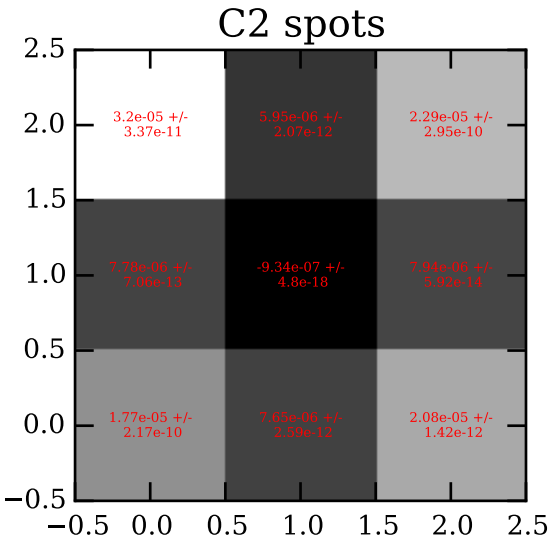

99827.1 electrons.
Position: (480,992)
Fractional NL
(after NL correction)
0.005
0.000
−0.005
−0.010
−0.015
−0.020
−0.025
−0.030
−0.035
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

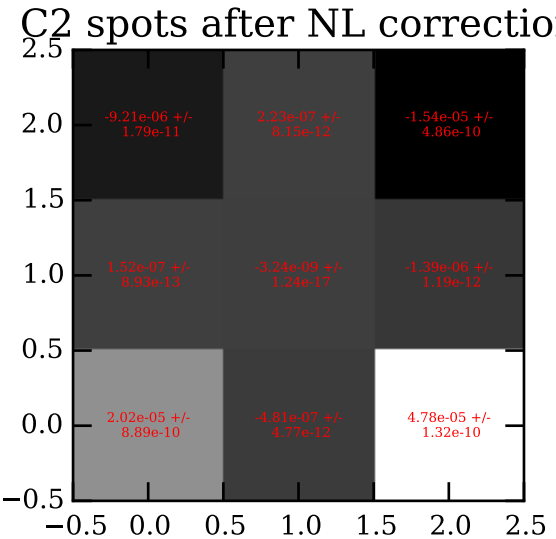

6227.89 electrons.
Position: (481,992)
Fractional NL
(after NL correction)
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

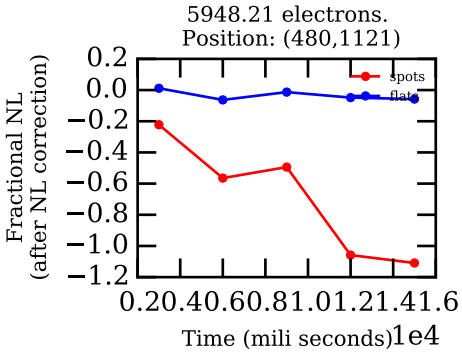

6224.35 electrons.
Position: (480,991)
Fractional NL
(after NL correction)
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.8
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

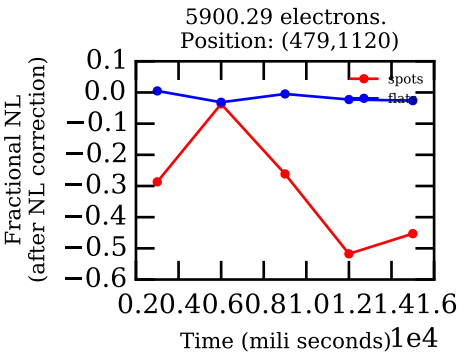

Center: (480,992)
99.2728 e/s
(1489.09 e)
469.516 e/s
(7042.74 e)
108.941 e/s
(1634.11 e)
434.777 e/s
(6521.66 e)
6503.62 e/s
(97554.3 e)
438.397 e/s
(6575.95 e)
94.1426 e/s
(1412.14 e)
437.466 e/s
(6561.99 e)
97.9119 e/s
(1468.68 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

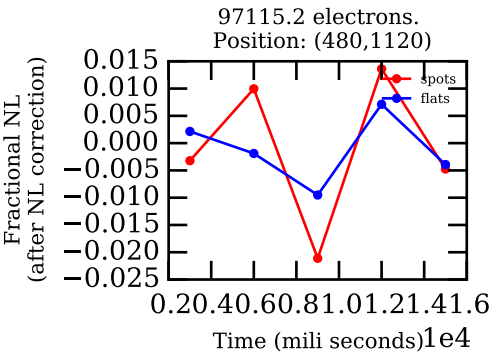

C2 flat
-7.23e-07 +/-
6.66e-17
-1.11e-06 +/-
1.38e-14
-1.37e-06 +/-
2.28e-14
-7.64e-07 +/-
4.87e-17
-7.4e-07 +/-
4.42e-18
-7.11e-07 +/-
6.56e-18
-7.24e-07 +/-
2.17e-18
-7.27e-07 +/-
7.9e-17
-8.26e-07 +/-
2.11e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

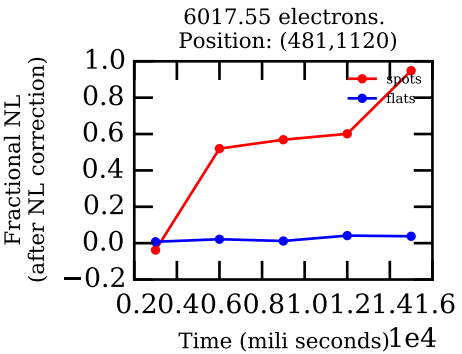

C2 spots
3.2e-05 +/-
3.37e-11
5.95e-06 +/-
2.07e-12
2.29e-05 +/-
2.95e-10
7.78e-06 +/-
7.06e-13
-9.34e-07 +/-
4.8e-18
7.94e-06 +/-
5.92e-14
1.77e-05 +/-
2.17e-10
7.65e-06 +/-
2.59e-12
2.08e-05 +/-
1.42e-12
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

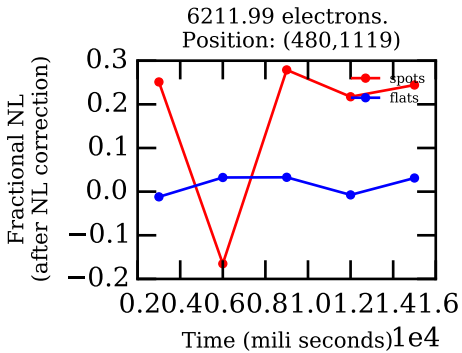

C2 spots after NL correction
-9.21e-06 +/-
1.79e-11
2.23e-07 +/-
8.15e-12
-1.54e-05 +/-
4.86e-10
1.52e-07 +/-
8.93e-13
-3.24e-09 +/-
1.24e-17
-1.39e-06 +/-
1.19e-12
2.02e-05 +/-
8.89e-10
-4.81e-07 +/-
4.77e-12
4.78e-05 +/-
1.32e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

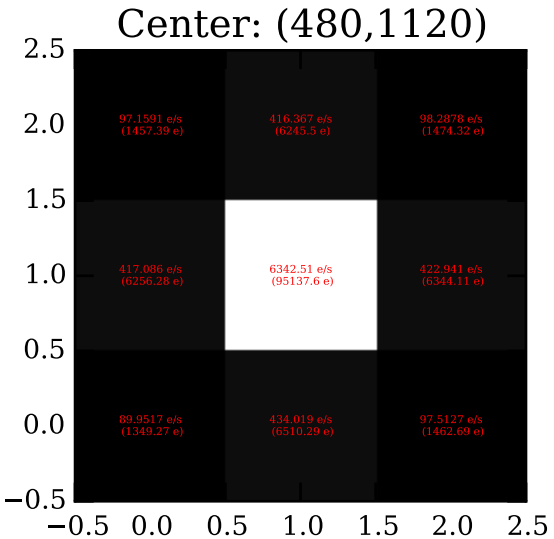

5948.21 electrons.
Position: (480,1121)
Fractional NL
(after NL correction)
0.2
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

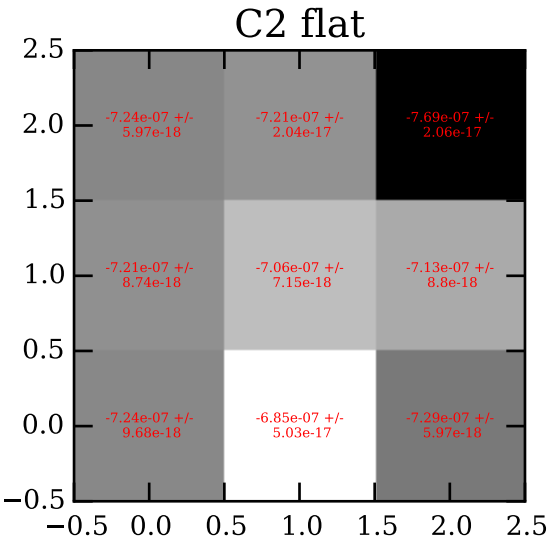

5900.29 electrons.
Position: (479,1120)
Fractional NL
(after NL correction)
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

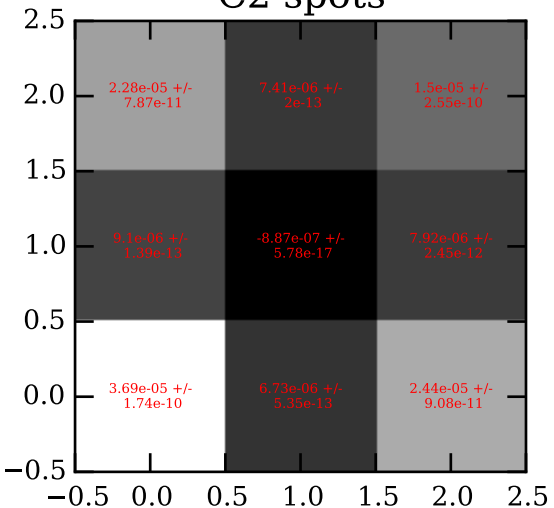

97115.2 electrons.
Position: (480,1120)
Fractional NL
(after NL correction)
0.015
0.010
0.005
0.000
−0.005
−0.010
−0.015
−0.020
−0.025
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

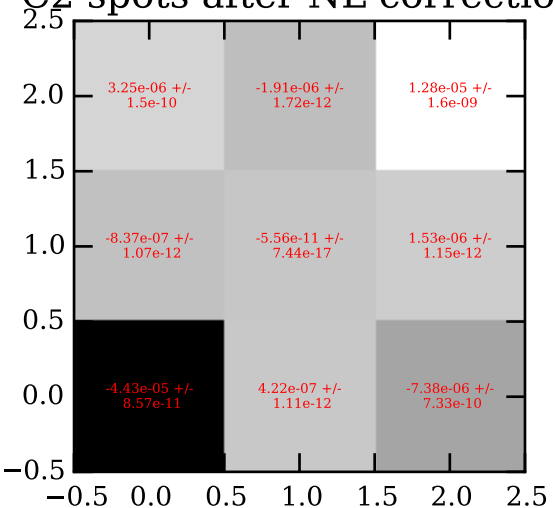

6017.55 electrons.
Position: (481,1120)
Fractional NL
(after NL correction)
1.0
0.8
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

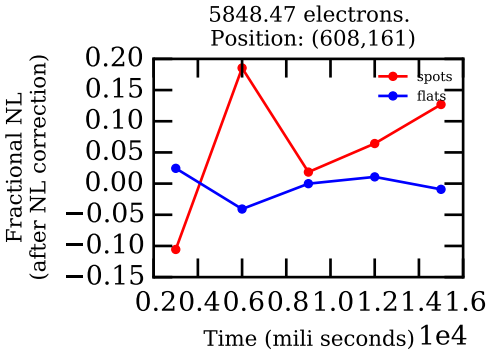

6211.99 electrons.
Position: (480,1119)
Fractional NL
(after NL correction)
0.3
0.2
0.1
0.0
−0.1
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

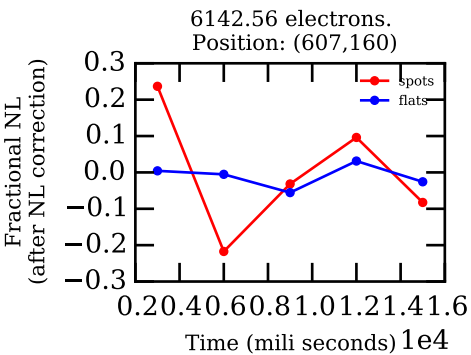

Center: (480,1120)
97.1591 e/s
(1457.39 e)
416.367 e/s
(6245.5 e)
98.2878 e/s
(1474.32 e)
417.086 e/s
(6256.28 e)
6342.51 e/s
(95137.6 e)
422.941 e/s
(6344.11 e)
89.9517 e/s
(1349.27 e)
434.019 e/s
(6510.29 e)
97.5127 e/s
(1462.69 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

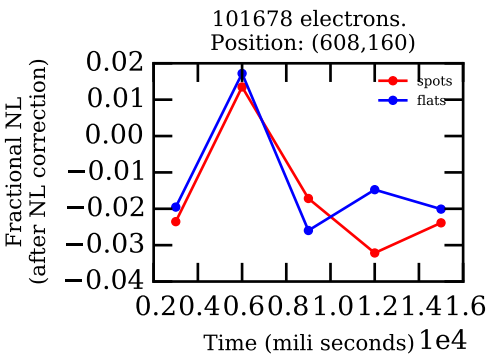

C2 flat
-7.24e-07 +/-
5.97e-18
-7.21e-07 +/-
2.04e-17
-7.69e-07 +/-
2.06e-17
-7.21e-07 +/-
8.74e-18
-7.06e-07 +/-
7.15e-18
-7.13e-07 +/-
8.8e-18
-7.24e-07 +/-
9.68e-18
-6.85e-07 +/-
5.03e-17
-7.29e-07 +/-
5.97e-18
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

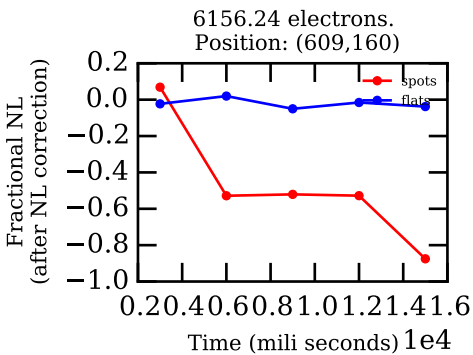

C2 spots
2.28e-05 +/-
7.87e-11
7.41e-06 +/-
2e-13
1.5e-05 +/-
2.55e-10
9.1e-06 +/-
1.38e-13
-8.87e-07 +/-
5.78e-17
7.92e-06 +/-
2.45e-12
3.69e-05 +/-
1.74e-10
6.73e-06 +/-
5.35e-13
2.44e-05 +/-
9.08e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

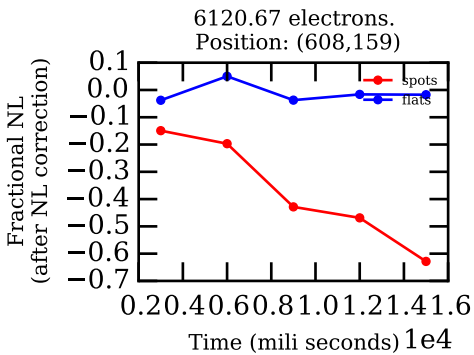

C2 spots after NL correction
3.25e-06 +/-
1.5e-10
-1.91e-06 +/-
1.72e-12
1.28e-05 +/-
1.6e-09
-8.37e-07 +/-
1.07e-12
-5.56e-11 +/-
7.44e-17
1.53e-06 +/-
1.15e-12
-4.43e-05 +/-
8.57e-11
4.22e-07 +/-
1.11e-12
-7.38e-06 +/-
7.33e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

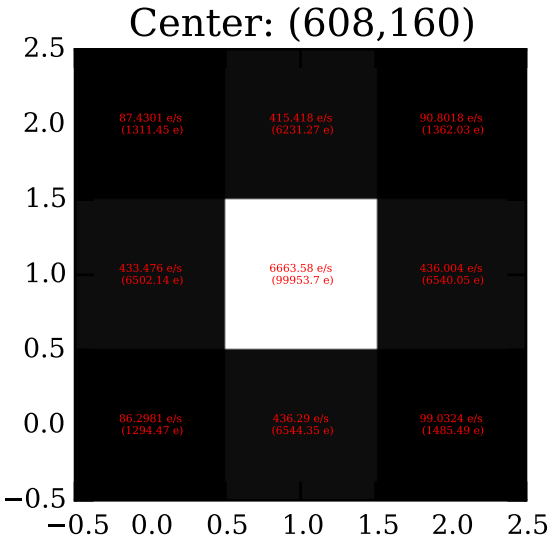

5848.47 electrons.
Position: (608,161)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

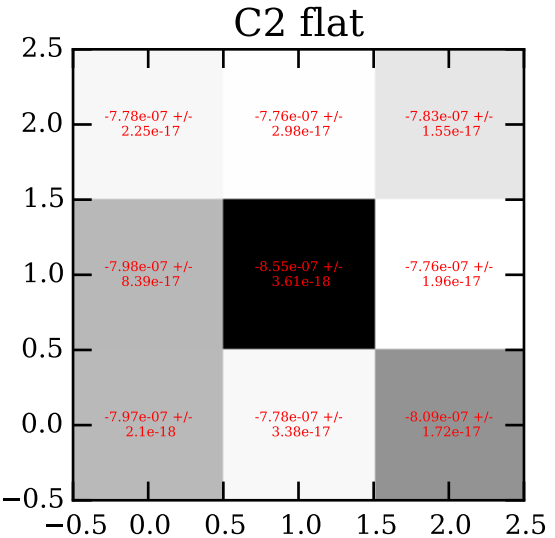

6142.56 electrons.
Position: (607,160)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

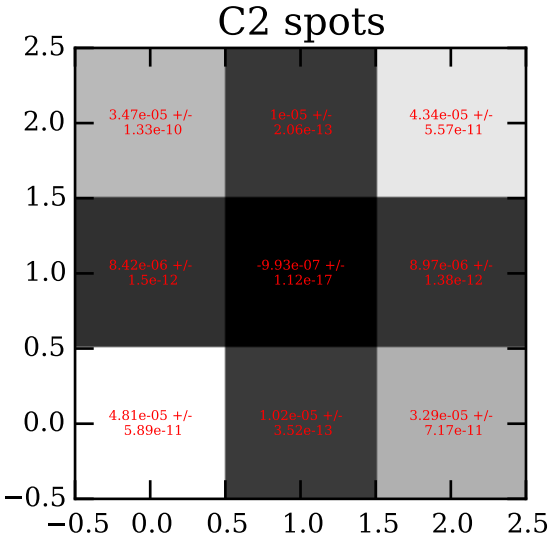

101678 electrons.
Position: (608,160)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

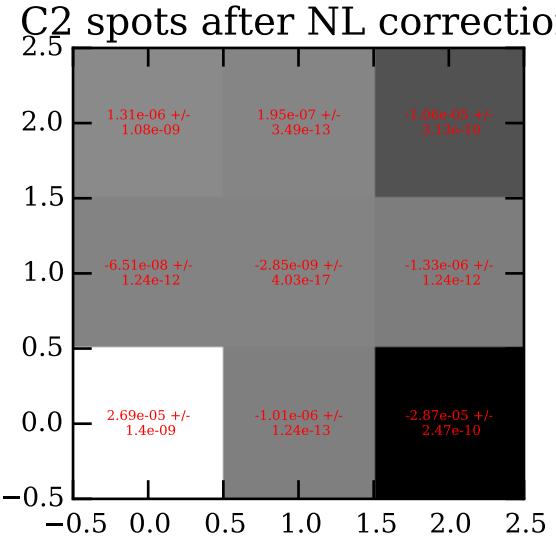

6156.24 electrons.
Position: (609,160)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

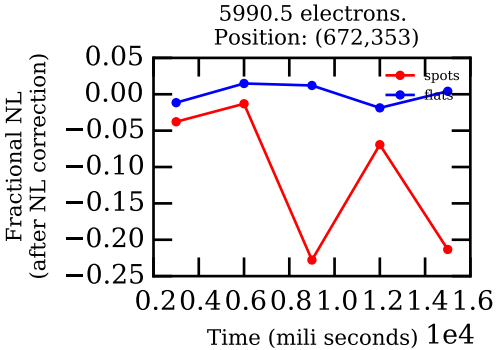

6120.67 electrons.
Position: (608,159)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

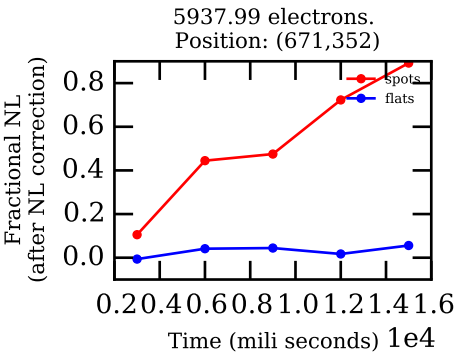

Center: (608,160)
87.4301 e/s
(1311.45 e)
415.418 e/s
(6231.27 e)
90.8018 e/s
(1362.03 e)
433.476 e/s
(6502.14 e)
6663.58 e/s
(99953.7 e)
436.004 e/s
(6540.05 e)
86.2981 e/s
(1294.47 e)
436.29 e/s
(6544.35 e)
99.0324 e/s
(1485.49 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

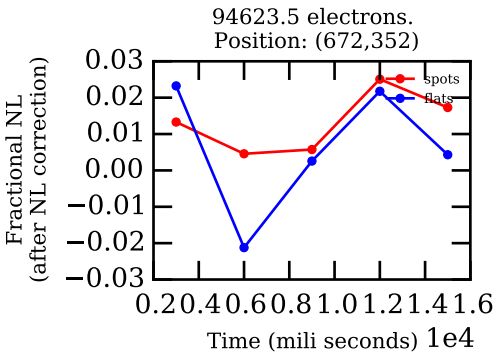

C2 flat
-7.78e-07 +/-
2.25e-17
-7.76e-07 +/-
2.98e-17
-7.83e-07 +/-
1.55e-17
-7.98e-07 +/-
8.39e-17
-8.55e-07 +/-
3.61e-18
-7.76e-07 +/-
1.96e-17
-7.97e-07 +/-
2.1e-18
-7.78e-07 +/-
3.38e-17
-8.09e-07 +/-
1.72e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

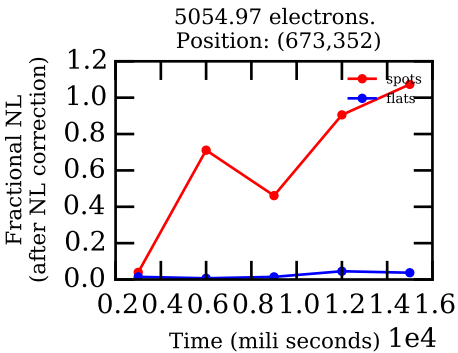

C2 spots
3.47e-05 +/-
1.33e-10
1e-05 +/-
2.06e-13
4.34e-05 +/-
5.57e-11
8.42e-06 +/-
1.5e-12
-9.93e-07 +/-
1.12e-17
8.97e-06 +/-
1.38e-12
4.81e-05 +/-
5.89e-11
1.02e-05 +/-
3.52e-13
3.29e-05 +/-
7.17e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

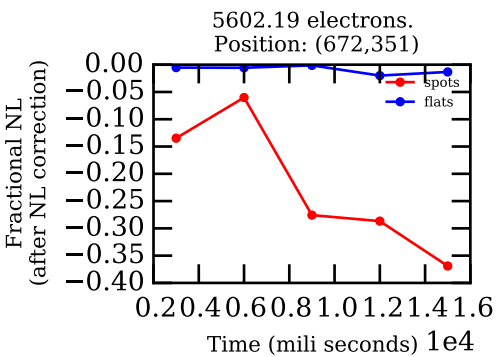

C2 spots after NL correction
1.31e-06 +/-
1.08e-09
1.95e-07 +/-
3.49e-13
-1.06e-05 +/-
3.12e-10
-6.51e-08 +/-
1.24e-12
-2.85e-09 +/-
4.03e-17
-1.33e-06 +/-
1.24e-12
2.69e-05 +/-
1.4e-09
-1.01e-06 +/-
1.24e-13
-2.87e-05 +/-
2.47e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

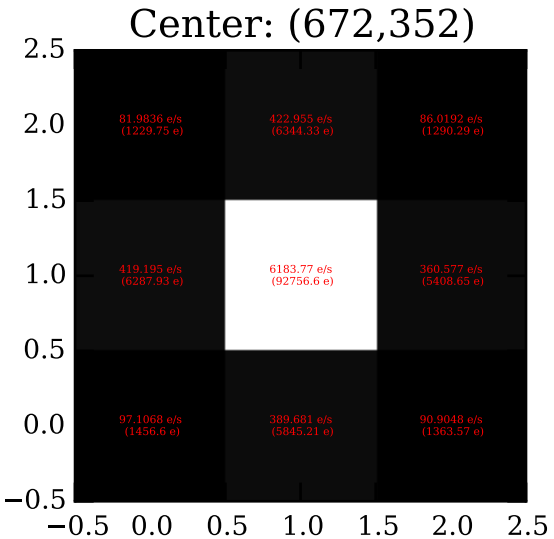

5990.5 electrons.
Position: (672,353)
Fractional NL
(after NL correction)
0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

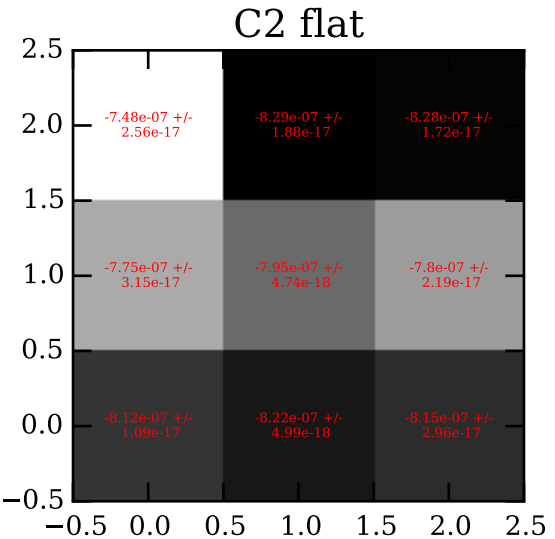

5937.99 electrons.
Position: (671,352)
Fractional NL
(after NL correction)
0.8
0.6
0.4
0.2
0.0
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

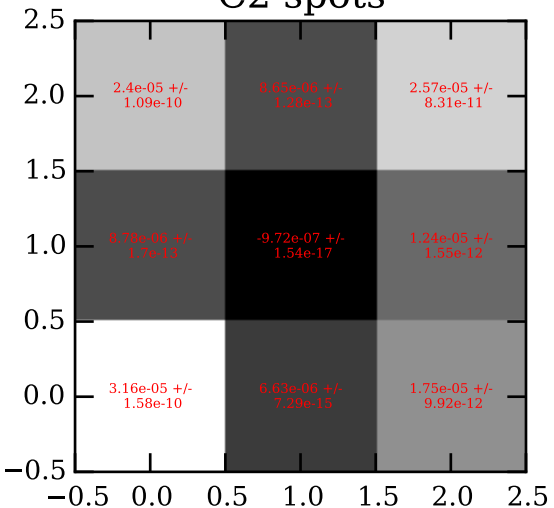

94623.5 electrons.
Position: (672,352)
Fractional NL
(after NL correction)
0.03
0.02
0.01
0.00
−0.01
−0.02
−0.03
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

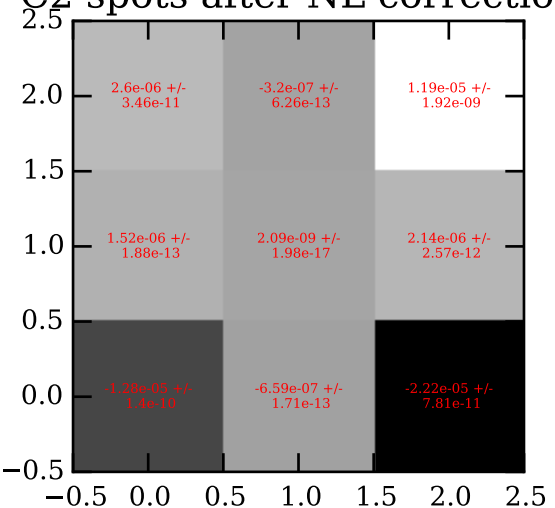

5054.97 electrons.
Position: (673,352)
Fractional NL
(after NL correction)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

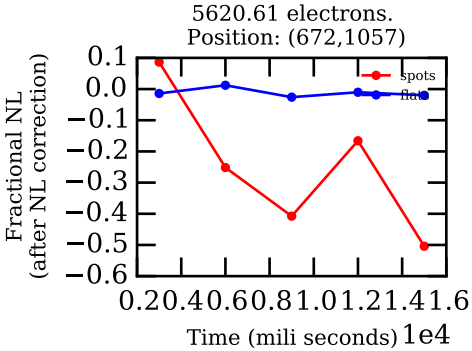

5602.19 electrons.
Position: (672,351)
Fractional NL
(after NL correction)
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
spots
flats
0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6
Time (mili seconds) 1e4

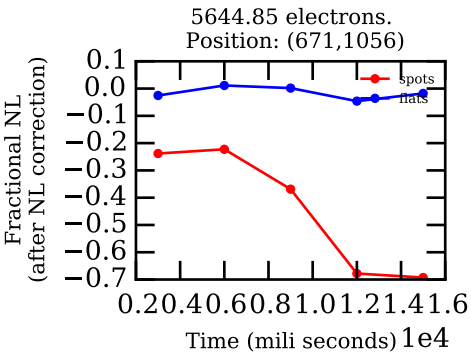

Center: (672,352)
81.9836 e/s
(1229.75 e)
422.955 e/s
(6344.33 e)
86.0192 e/s
(1290.29 e)
419.195 e/s
(6287.93 e)
6183.77 e/s
(92756.6 e)
360.577 e/s
(5408.65 e)
97.1068 e/s
(1456.6 e)
389.681 e/s
(5845.21 e)
90.9048 e/s
(1363.57 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

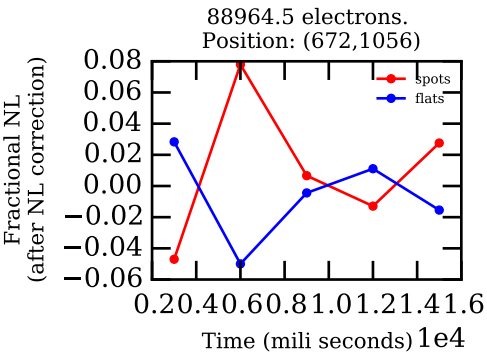

C2 flat
-7.48e-07 +/-
2.56e-17
-8.29e-07 +/-
1.88e-17
-8.28e-07 +/-
1.72e-17
-7.75e-07 +/-
3.15e-17
-7.95e-07 +/-
4.74e-18
-7.8e-07 +/-
2.19e-17
-8.12e-07 +/-
1.09e-17
-8.22e-07 +/-
4.99e-18
-8.15e-07 +/-
2.96e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

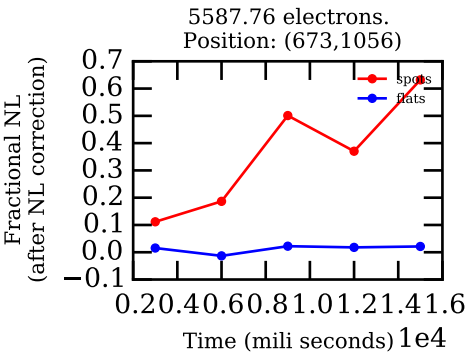

C2 spots
2.4e-05 +/-
1.09e-10
8.65e-06 +/-
1.28e-13
2.57e-05 +/-
8.31e-11
8.78e-06 +/-
1.7e-13
-9.72e-07 +/-
1.54e-17
1.24e-05 +/-
1.55e-12
3.16e-05 +/-
1.58e-10
6.63e-06 +/-
7.29e-15
1.75e-05 +/-
9.92e-12
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

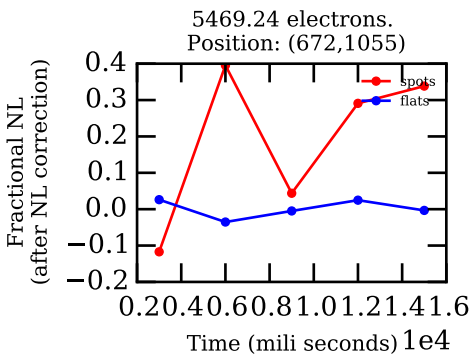

C2 spots after NL correction
2.6e-06 +/-
3.46e-11
-3.2e-07 +/-
6.26e-13
1.19e-05 +/-
1.92e-09
1.52e-06 +/-
1.88e-13
2.09e-09 +/-
1.98e-17
2.14e-06 +/-
2.57e-12
-1.28e-05 +/-
1.4e-10
-6.59e-07 +/-
1.71e-13
-2.22e-05 +/-
7.81e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

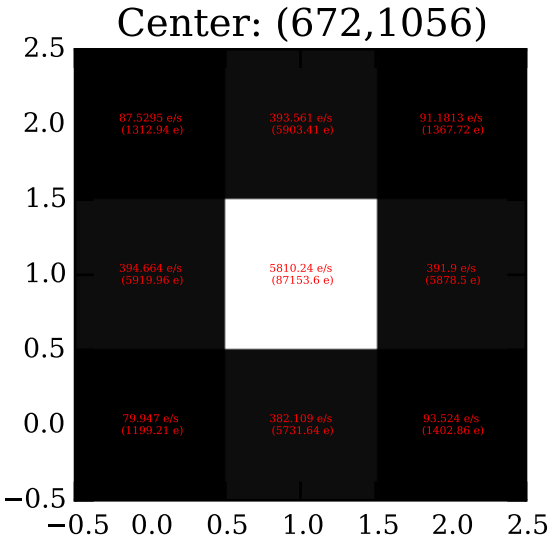

5620.61 electrons.
Position: (672,1057)
Fractional NL
(after NL correction)
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

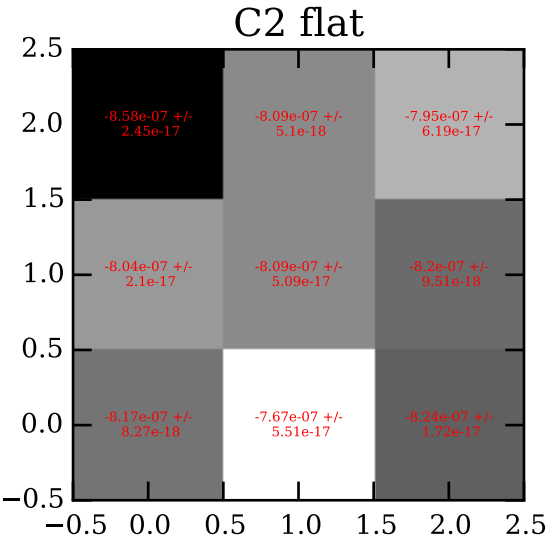

5644.85 electrons.
Position: (671,1056)
Fractional NL
(after NL correction)
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

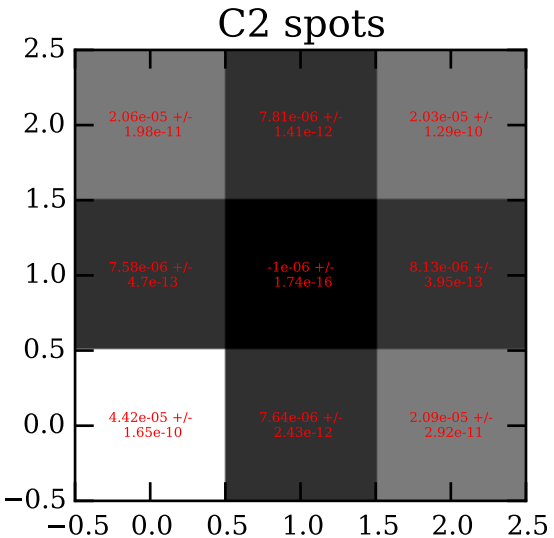

88964.5 electrons.
Position: (672,1056)
Fractional NL
(after NL correction)
0.08
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

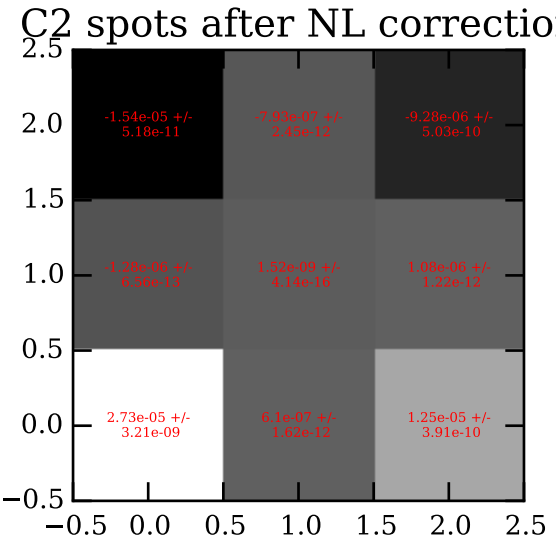

5587.76 electrons.
Position: (673,1056)
Fractional NL
(after NL correction)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

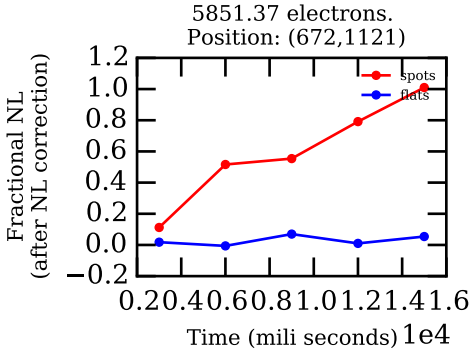

5469.24 electrons.
Position: (672,1055)
Fractional NL
(after NL correction)
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

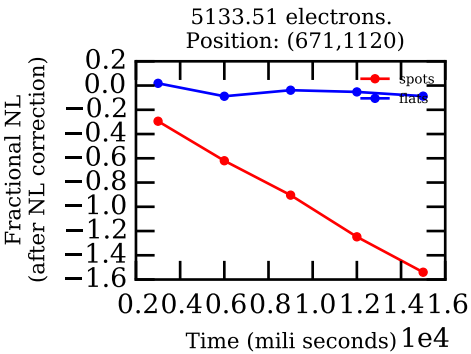

Center: (672,1056)
87.5295 e/s
(1312.94 e)
393.561 e/s
(5903.41 e)
91.1813 e/s
(1367.72 e)
394.664 e/s
(5919.96 e)
5810.24 e/s
(87153.6 e)
391.9 e/s
(5878.5 e)
79.947 e/s
(1199.21 e)
382.109 e/s
(5731.64 e)
93.524 e/s
(1402.86 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

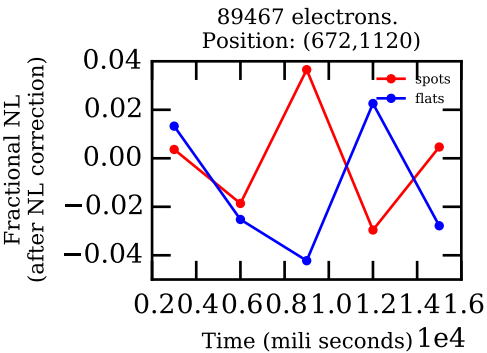

C2 flat
-8.58e-07 +/-
2.45e-17
-8.09e-07 +/-
5.1e-18
-7.95e-07 +/-
6.19e-17
-8.04e-07 +/-
2.1e-17
-8.09e-07 +/-
5.09e-17
-8.2e-07 +/-
9.51e-18
-8.17e-07 +/-
8.27e-18
-7.67e-07 +/-
5.51e-17
-8.24e-07 +/-
1.72e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

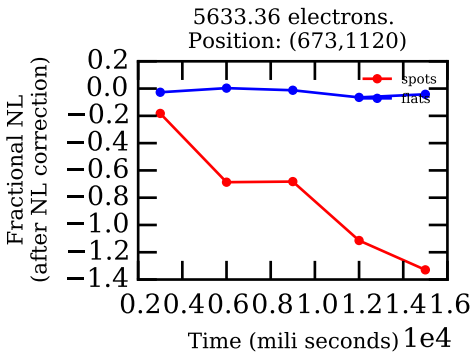

C2 spots
2.06e-05 +/-
1.98e-11
7.81e-06 +/-
1.41e-12
2.03e-05 +/-
1.29e-10
7.58e-06 +/-
4.7e-13
-1e-06 +/-
1.74e-16
8.13e-06 +/-
3.95e-13
4.42e-05 +/-
1.65e-10
7.64e-06 +/-
2.43e-12
2.09e-05 +/-
2.92e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

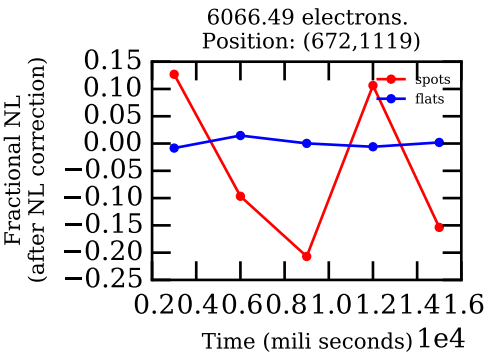

C2 spots after NL correction
-1.54e-05 +/-
5.18e-11
-7.83e-07 +/-
2.45e-12
-9.28e-06 +/-
5.03e-10
-1.28e-06 +/-
6.36e-13
1.52e-09 +/-
4.14e-16
1.06e-06 +/-
1.22e-12
2.73e-05 +/-
3.21e-09
6.1e-07 +/-
1.62e-12
1.25e-05 +/-
3.91e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

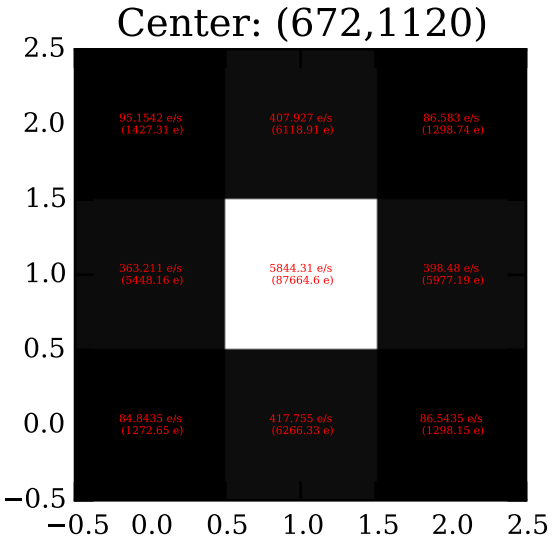

5851.37 electrons.
Position: (672,1121)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

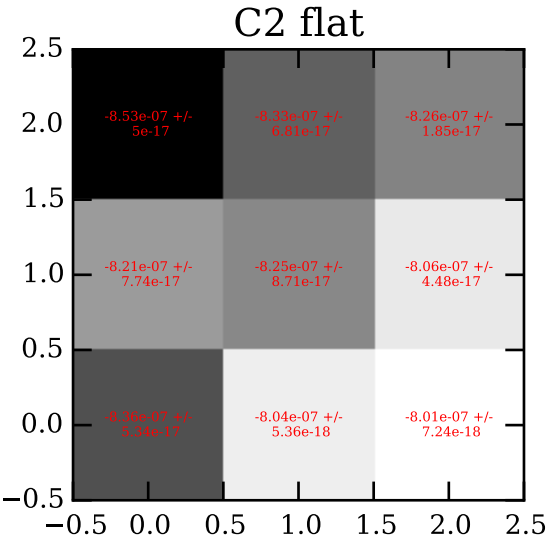

5133.51 electrons.
Position: (671,1120)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

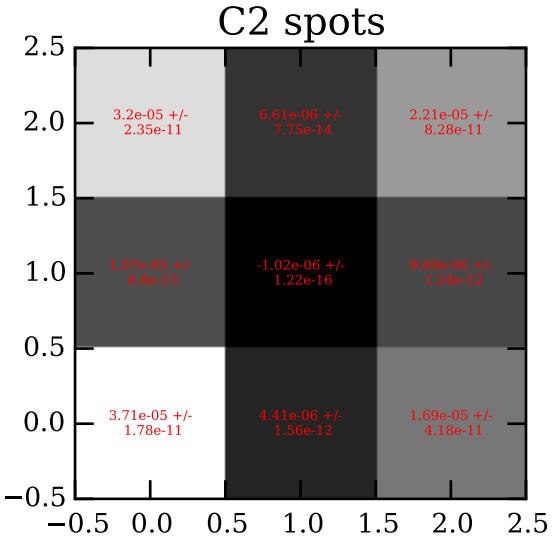

89467 electrons.
Position: (672,1120)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

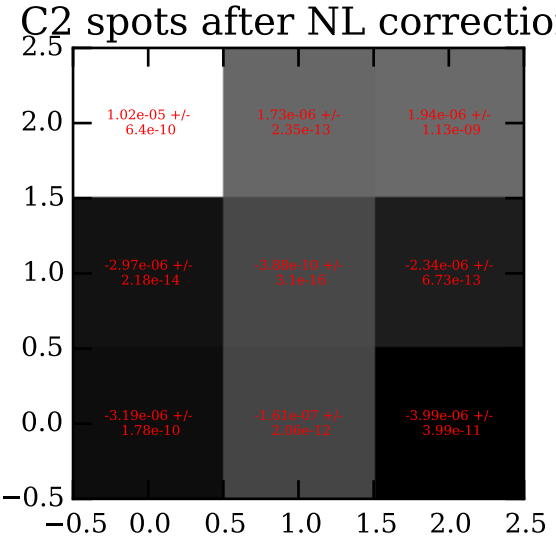

5633.36 electrons.
Position: (673,1120)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

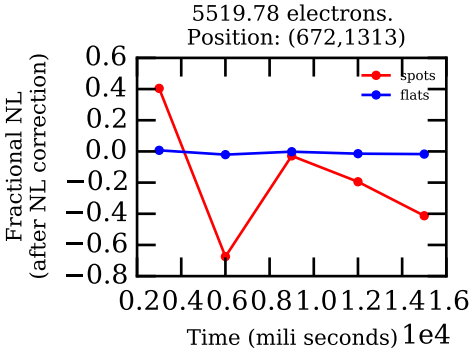

6066.49 electrons.
Position: (672,1119)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

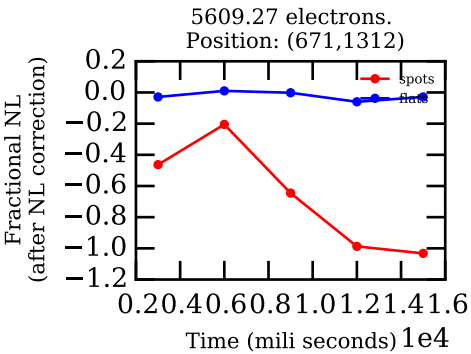

Center: (672,1120)
95.1542 e/s
(1427.31 e)
407.927 e/s
(6118.91 e)
86.583 e/s
(1298.74 e)
363.211 e/s
(5448.16 e)
5844.31 e/s
(87664.6 e)
398.48 e/s
(5977.19 e)
84.8435 e/s
(1272.65 e)
417.755 e/s
(6266.33 e)
86.5435 e/s
(1298.15 e)

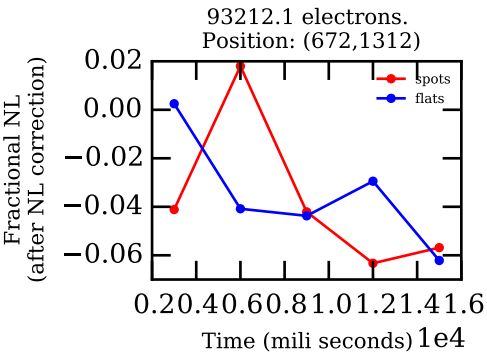

C2 flat
-8.53e-07 +/-
5e-17
-8.33e-07 +/-
6.81e-17
-8.26e-07 +/-
1.85e-17
-8.21e-07 +/-
7.74e-17
-8.25e-07 +/-
8.71e-17
-8.06e-07 +/-
4.48e-17
-8.04e-07 +/-
5.36e-18
-8.01e-07 +/-
7.24e-18

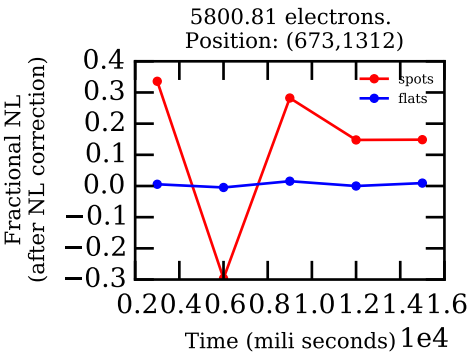

C2 spots
3.2e-05 +/-
2.35e-11
6.61e-06 +/-
7.75e-14
2.21e-05 +/-
8.28e-11
-1.02e-06 +/-
1.22e-16
9.69e-06 +/-
1.24e-12
3.71e-05 +/-
1.78e-11
4.41e-06 +/-
1.56e-12
1.69e-05 +/-
4.18e-11

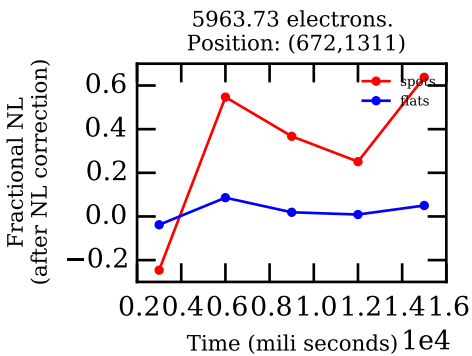

C2 spots after NL correction
1.02e-05 +/-
6.4e-10
1.73e-06 +/-
2.35e-13
1.94e-06 +/-
1.13e-09
-2.97e-06 +/-
2.18e-14
-3.88e-10 +/-
3.1e-16
-2.34e-06 +/-
6.73e-13
-3.19e-06 +/-
1.78e-10
-1.61e-07 +/-
2.06e-12
-3.99e-06 +/-
3.99e-11

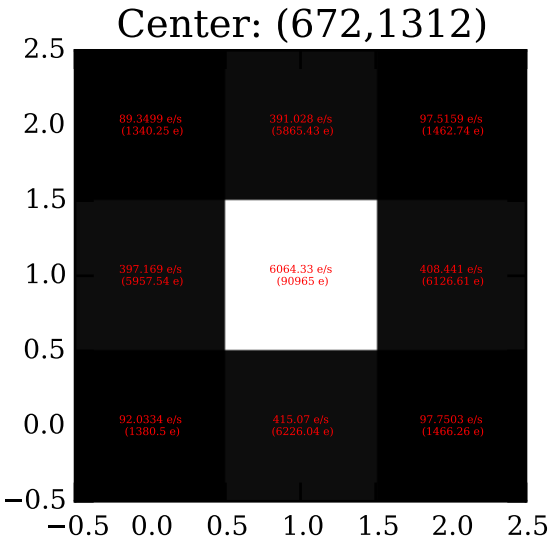

5519.78 electrons.
Position: (672,1313)
Fractional NL
(after NL correction)
0.6
0.4
0.2
0.0
−0.2
−0.4
−0.6
−0.8
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

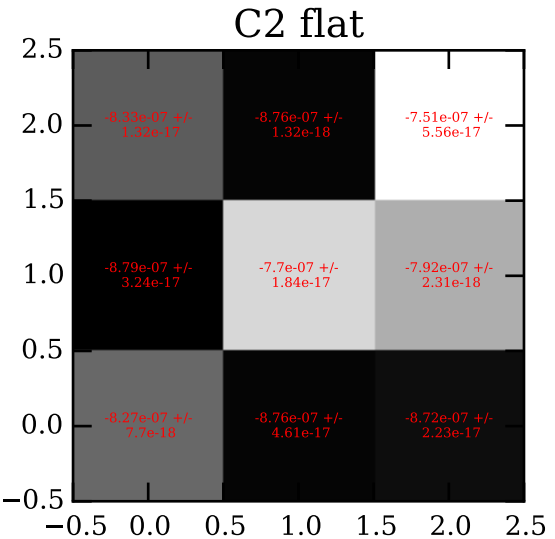

5609.27 electrons.
Position: (671,1312)
Fractional NL
(after NL correction)
0.2
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
−1.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

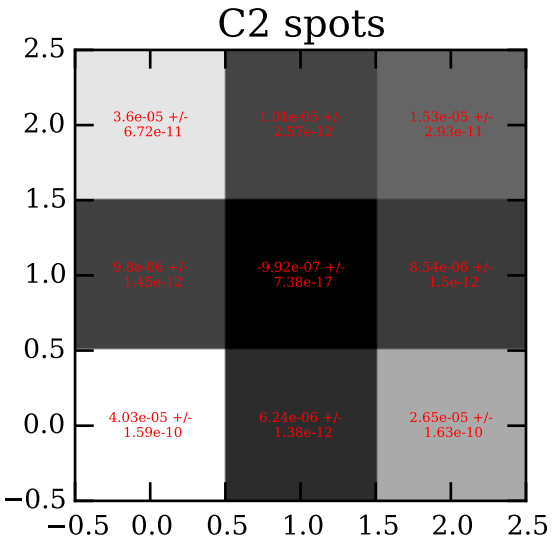

93212.1 electrons.
Position: (672,1312)
Fractional NL
(after NL correction)
0.02
0.00
−0.02
−0.04
−0.06
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

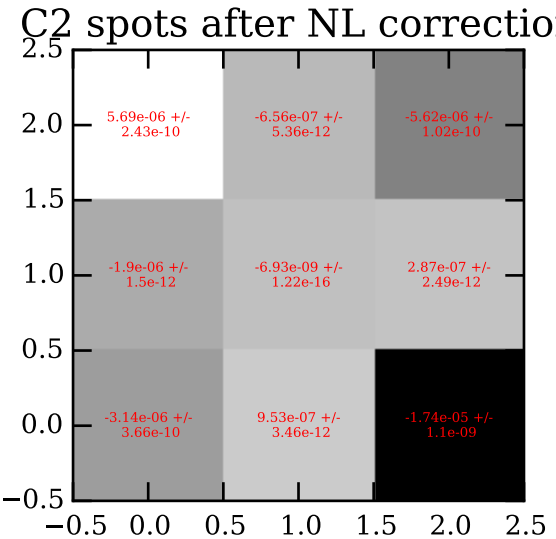

5800.81 electrons.
Position: (673,1312)
Fractional NL
(after NL correction)
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

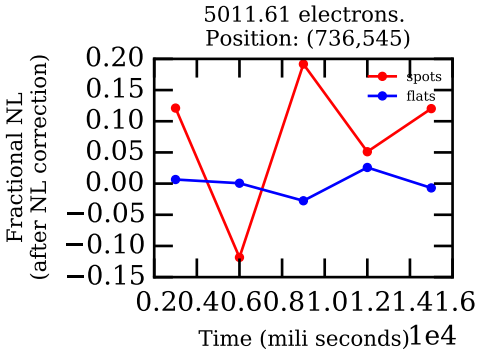

5963.73 electrons.
Position: (672,1311)
Fractional NL
(after NL correction)
0.6
0.4
0.2
0.0
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

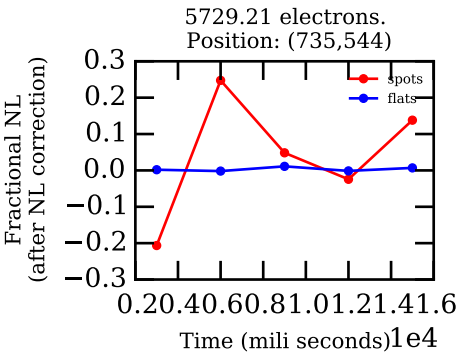

Center: (672,1312)
89.3499 e/s
(1340.25 e)
391.028 e/s
(5865.43 e)
97.5159 e/s
(1462.74 e)
397.169 e/s
(5957.54 e)
6064.33 e/s
(90965 e)
408.441 e/s
(6126.61 e)
92.0334 e/s
(1380.5 e)
415.07 e/s
(6226.04 e)
97.7503 e/s
(1466.26 e)

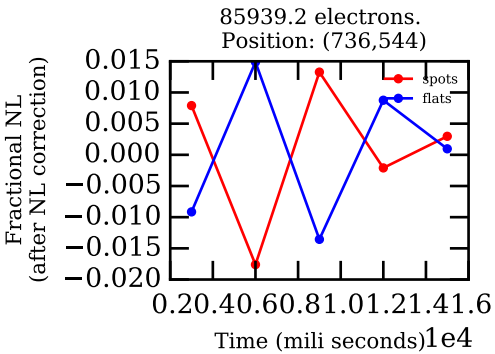

C2 flat
-8.33e-07 +/-
1.32e-17
-8.76e-07 +/-
1.32e-18
-7.51e-07 +/-
5.56e-17
-8.79e-07 +/-
3.24e-17
-7.7e-07 +/-
1.84e-17
-7.92e-07 +/-
2.31e-18
-8.27e-07 +/-
7.7e-18
-8.76e-07 +/-
4.61e-17
-8.72e-07 +/-
2.23e-17

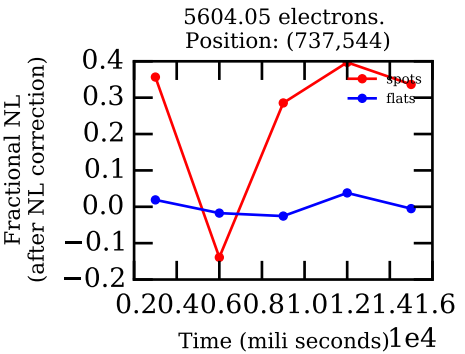

C2 spots
3.6e-05 +/-
6.72e-11
1.01e-05 +/-
2.57e-12
1.53e-05 +/-
2.93e-11
9.8e-06 +/-
1.45e-12
-9.92e-07 +/-
7.38e-17
8.54e-06 +/-
1.5e-12
4.03e-05 +/-
1.59e-10
6.24e-06 +/-
1.38e-12
2.65e-05 +/-
1.63e-10

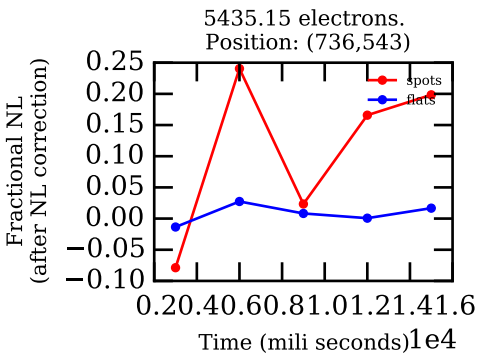

C2 spots after NL correction
5.69e-06 +/-
2.43e-10
-6.56e-07 +/-
5.36e-12
-5.62e-06 +/-
1.02e-10
-1.9e-06 +/-
1.5e-12
-6.93e-09 +/-
1.22e-16
2.87e-07 +/-
2.49e-12
-3.14e-06 +/-
3.66e-10
9.53e-07 +/-
3.46e-12
-1.74e-05 +/-
1.1e-09

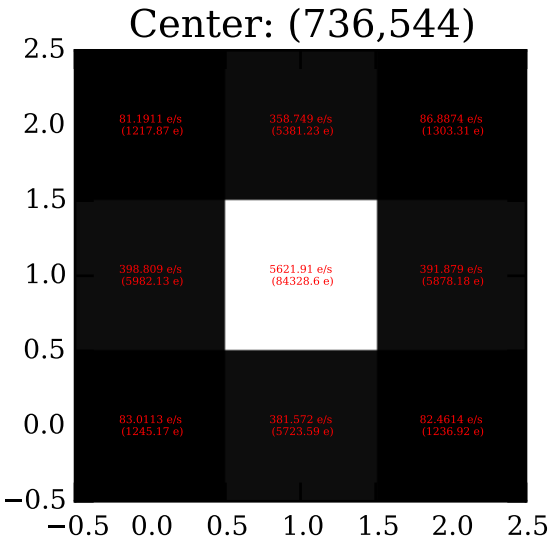

5011.61 electrons.
Position: (736,545)
Fractional NL
(after NL correction)
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

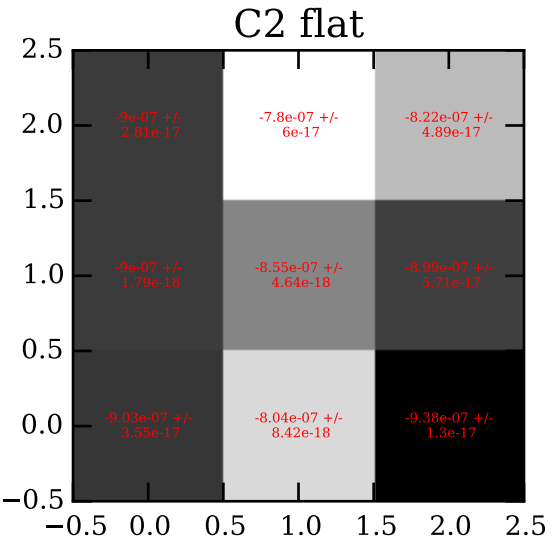

5729.21 electrons.
Position: (735,544)
Fractional NL
(after NL correction)
0.3
0.2
0.1
0.0
−0.1
−0.2
−0.3
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

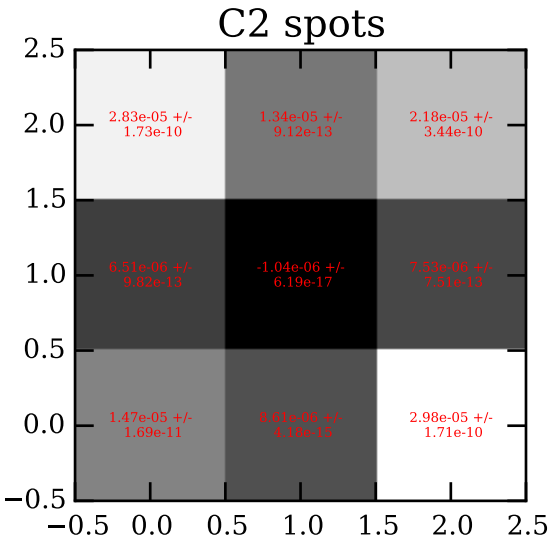

85939.2 electrons.
Position: (736,544)
Fractional NL
(after NL correction)
0.015
0.010
0.005
0.000
−0.005
−0.010
−0.015
−0.020
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

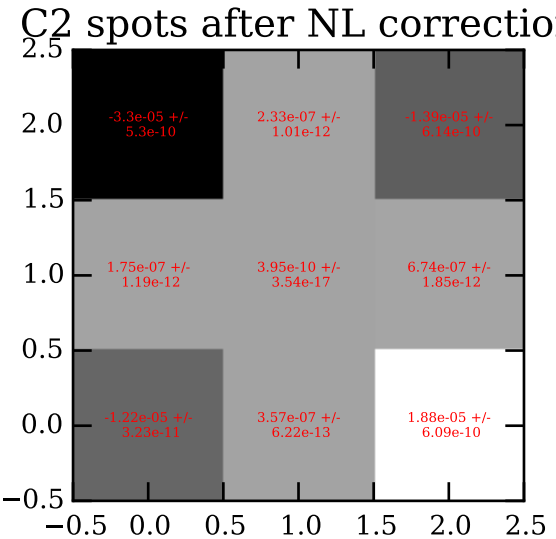

5604.05 electrons.
Position: (737,544)
Fractional NL
(after NL correction)
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

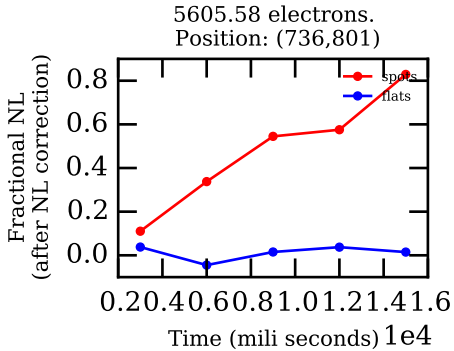

5435.15 electrons.
Position: (736,543)
Fractional NL
(after NL correction)
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)1e4

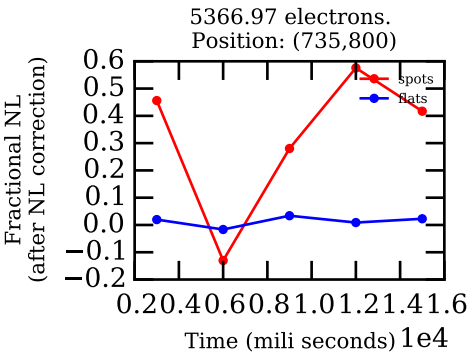

Center: (736,544)
81.1911 e/s
(1217.87 e)
358.749 e/s
(5381.23 e)
86.8874 e/s
(1303.31 e)
398.809 e/s
(5982.13 e)
5621.91 e/s
(84328.6 e)
391.879 e/s
(5878.18 e)
83.0113 e/s
(1245.17 e)
381.572 e/s
(5723.59 e)
82.4614 e/s
(1236.92 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

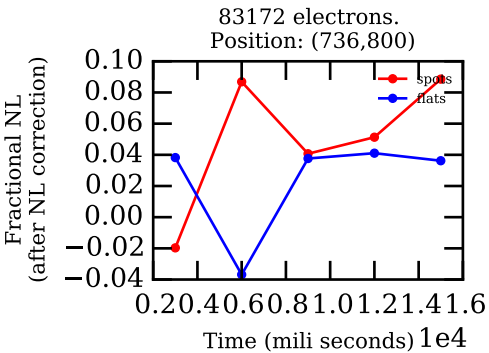

C2 flat
-9e-07 +/-
2.81e-17
-7.8e-07 +/-
6e-17
-8.22e-07 +/-
4.89e-17
-9e-07 +/-
1.79e-18
-8.55e-07 +/-
4.64e-18
-8.99e-07 +/-
5.71e-17
-9.03e-07 +/-
3.55e-17
-8.04e-07 +/-
8.42e-18
-9.38e-07 +/-
1.3e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

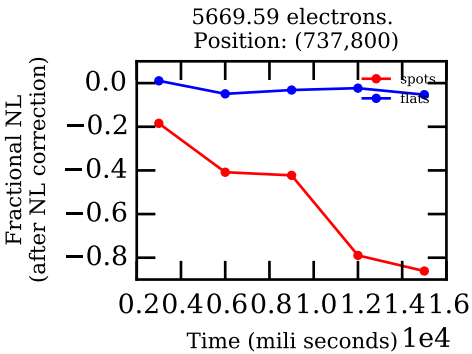

C2 spots
2.83e-05 +/-
1.73e-10
1.34e-05 +/-
9.12e-13
2.18e-05 +/-
3.44e-10
6.51e-06 +/-
9.82e-13
-1.04e-06 +/-
6.19e-17
7.53e-06 +/-
7.51e-13
1.47e-05 +/-
1.69e-11
2.98e-05 +/-
1.71e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

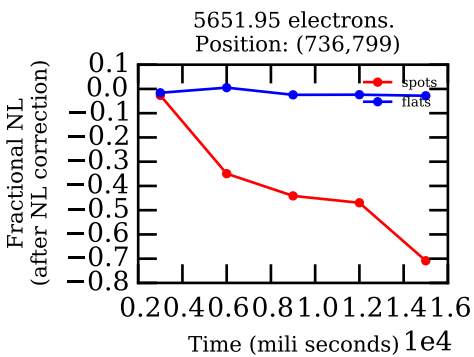

C2 spots after NL correction
-3.3e-05 +/-
5.3e-10
2.33e-07 +/-
1.01e-12
-1.38e-05 +/-
6.14e-10
1.75e-07 +/-
1.19e-12
3.95e-10 +/-
3.54e-17
6.74e-07 +/-
1.85e-12
-1.22e-05 +/-
3.23e-11
3.57e-07 +/-
6.22e-13
1.88e-05 +/-
6.09e-10
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

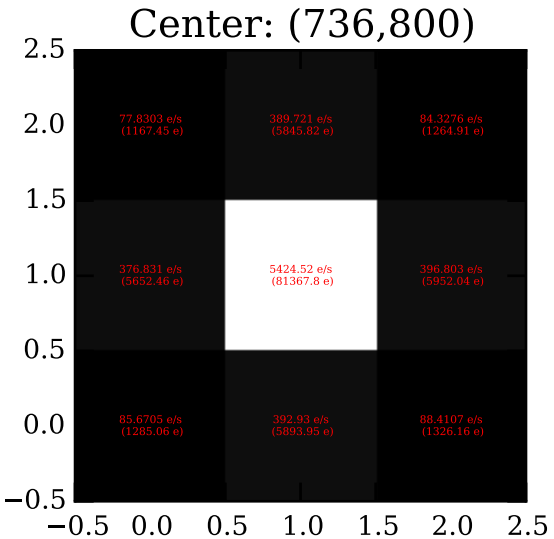

5605.58 electrons.
Position: (736,801)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

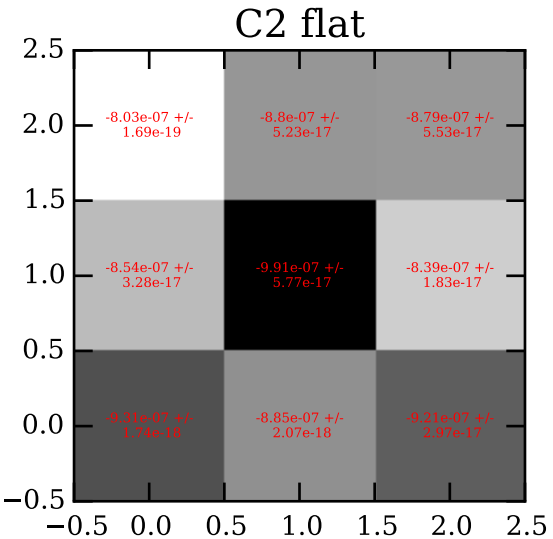

5366.97 electrons.
Position: (735,800)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

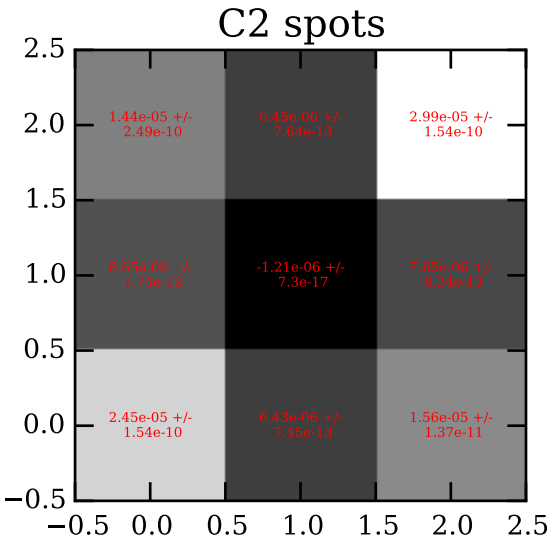

83172 electrons.
Position: (736,800)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

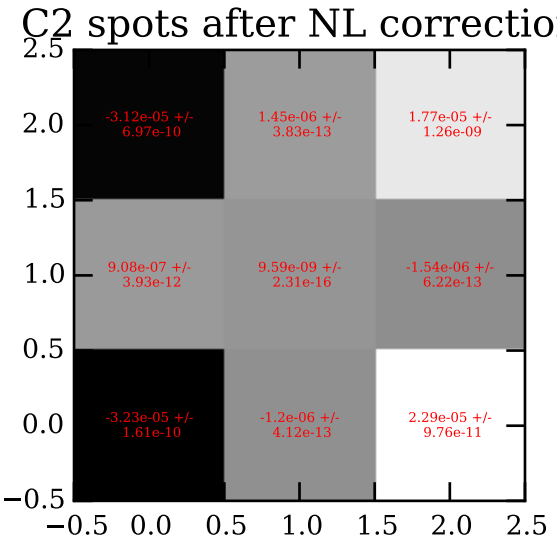

5669.59 electrons.
Position: (737,800)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

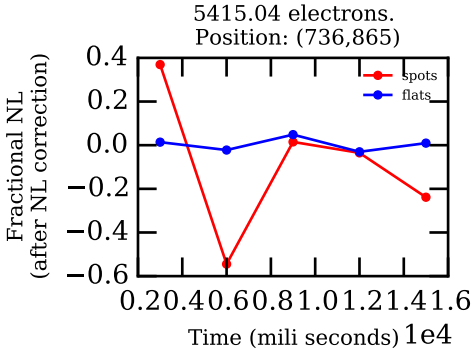

5651.95 electrons.
Position: (736,799)
Fractional NL
(after NL correction)
spots
flats
Time (mili seconds)
1e4

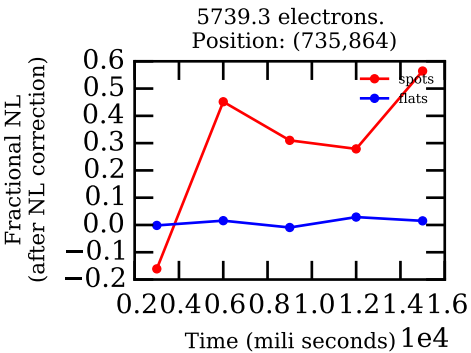

Center: (736,800)
77.8303 e/s
(1167.45 e)
389.721 e/s
(5845.82 e)
84.3276 e/s
(1264.91 e)
376.831 e/s
(5652.46 e)
5424.52 e/s
(81367.8 e)
396.803 e/s
(5952.04 e)
85.6705 e/s
(1285.06 e)
392.93 e/s
(5893.95 e)
88.4107 e/s
(1326.16 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

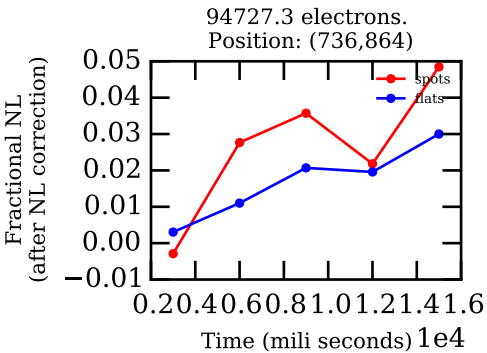

C2 flat
-8.03e-07 +/-
1.69e-19
-8.8e-07 +/-
5.23e-17
-8.79e-07 +/-
5.53e-17
-8.54e-07 +/-
3.28e-17
-9.91e-07 +/-
5.77e-17
-8.39e-07 +/-
1.83e-17
-8.85e-07 +/-
2.07e-18
-9.21e-07 +/-
2.97e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

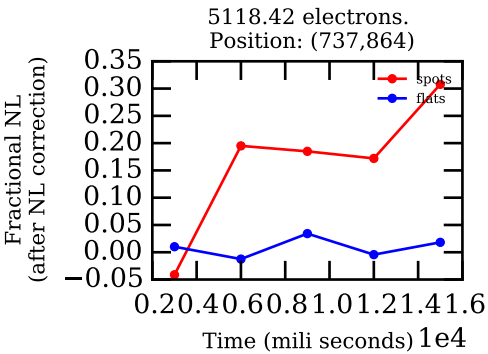

C2 spots
1.44e-05 +/-
2.49e-10
6.45e-06 +/-
7.64e-13
2.99e-05 +/-
1.54e-10
-1.21e-06 +/-
7.3e-17
7.65e-06 +/-
8.24e-13
2.45e-05 +/-
1.54e-10
6.43e-06 +/-
7.45e-13
1.56e-05 +/-
1.37e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

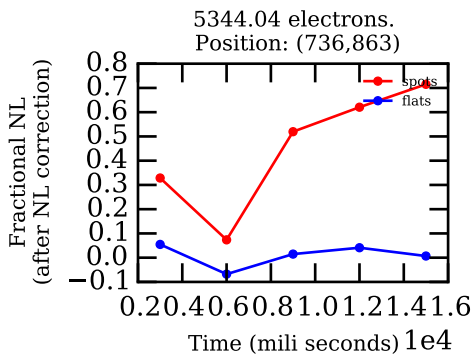

C2 spots after NL correction
-3.12e-05 +/-
6.97e-10
1.45e-06 +/-
3.83e-13
1.77e-05 +/-
1.26e-09
9.08e-07 +/-
3.93e-12
9.59e-09 +/-
2.31e-16
-1.54e-06 +/-
6.22e-13
-3.23e-05 +/-
1.61e-10
-1.2e-06 +/-
4.12e-13
2.29e-05 +/-
9.76e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5 0.0 0.5 1.0 1.5 2.0 2.5

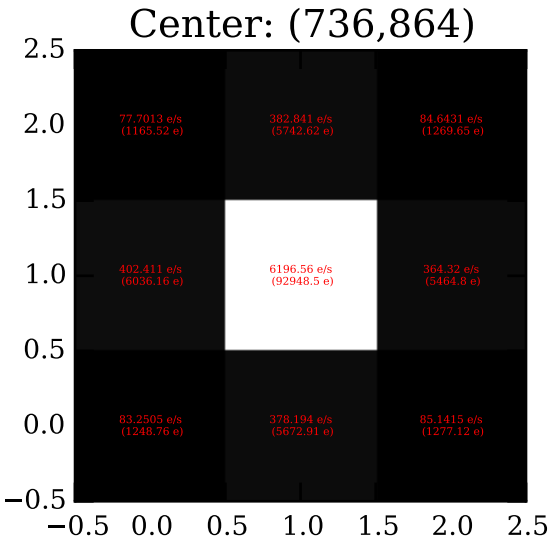

5415.04 electrons.
Position: (736,865)
Fractional NL
(after NL correction)
0.4
0.2
0.0
−0.2
−0.4
−0.6
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

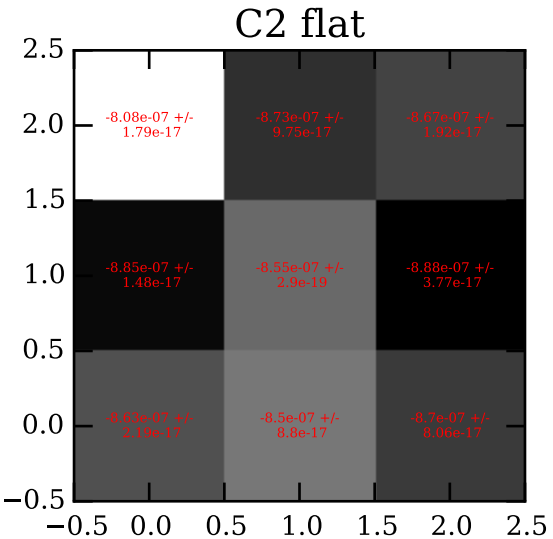

5739.3 electrons.
Position: (735,864)
Fractional NL
(after NL correction)
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

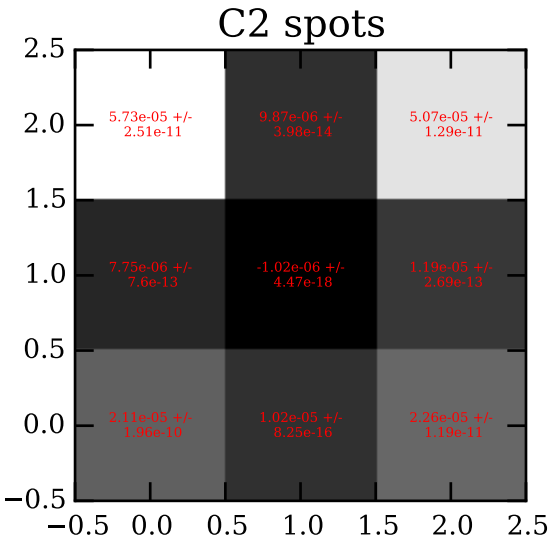

94727.3 electrons.
Position: (736,864)
Fractional NL
(after NL correction)
0.05
0.04
0.03
0.02
0.01
0.00
−0.01
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

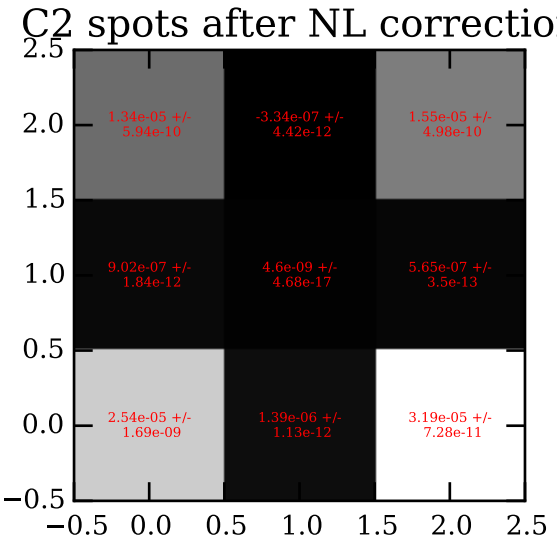

5118.42 electrons.
Position: (737,864)
Fractional NL
(after NL correction)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

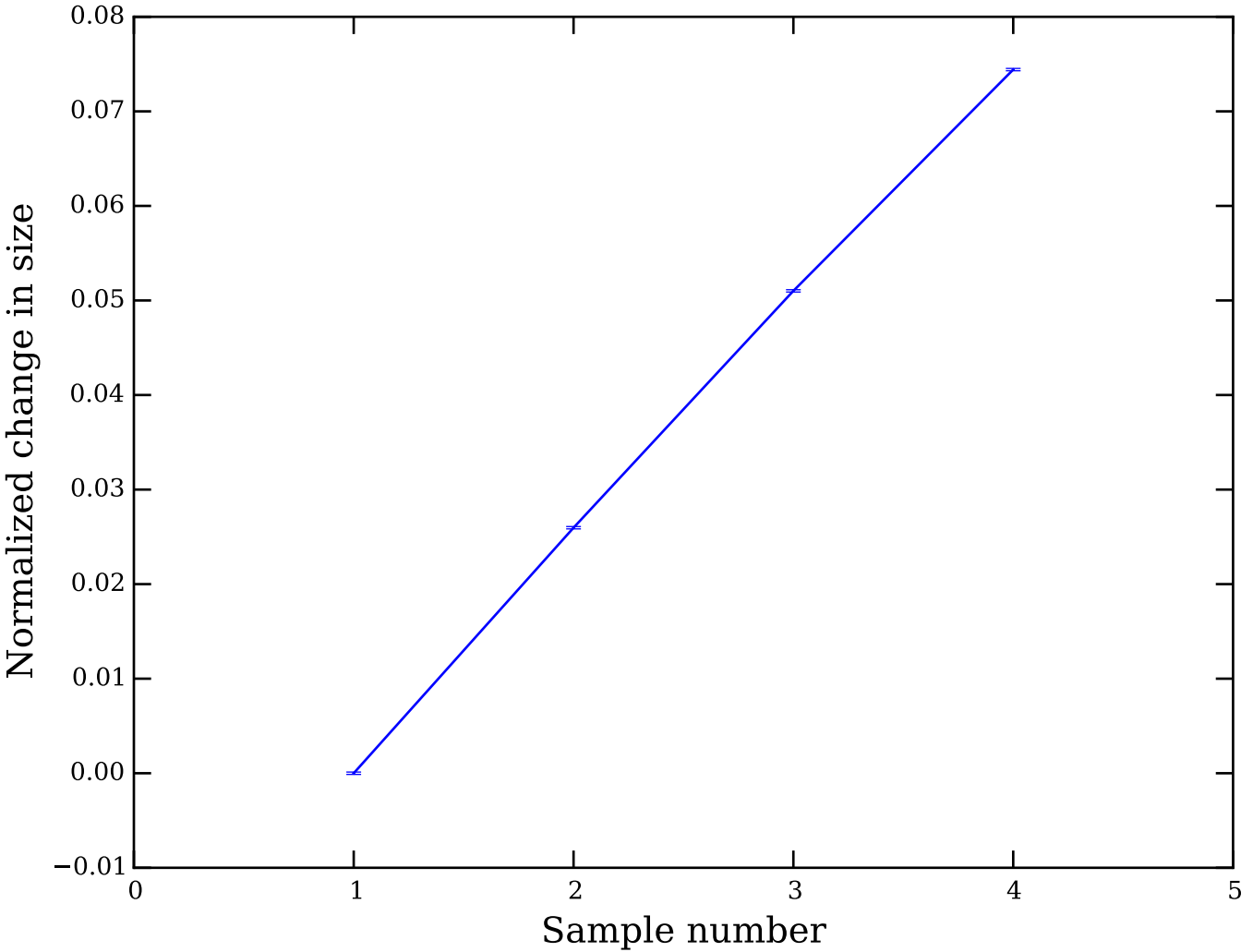

5344.04 electrons.
Position: (736,863)
Fractional NL
(after NL correction)
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
−0.1
spots
flats
0.20.40.60.81.01.21.41.6
Time (mili seconds)
1e4

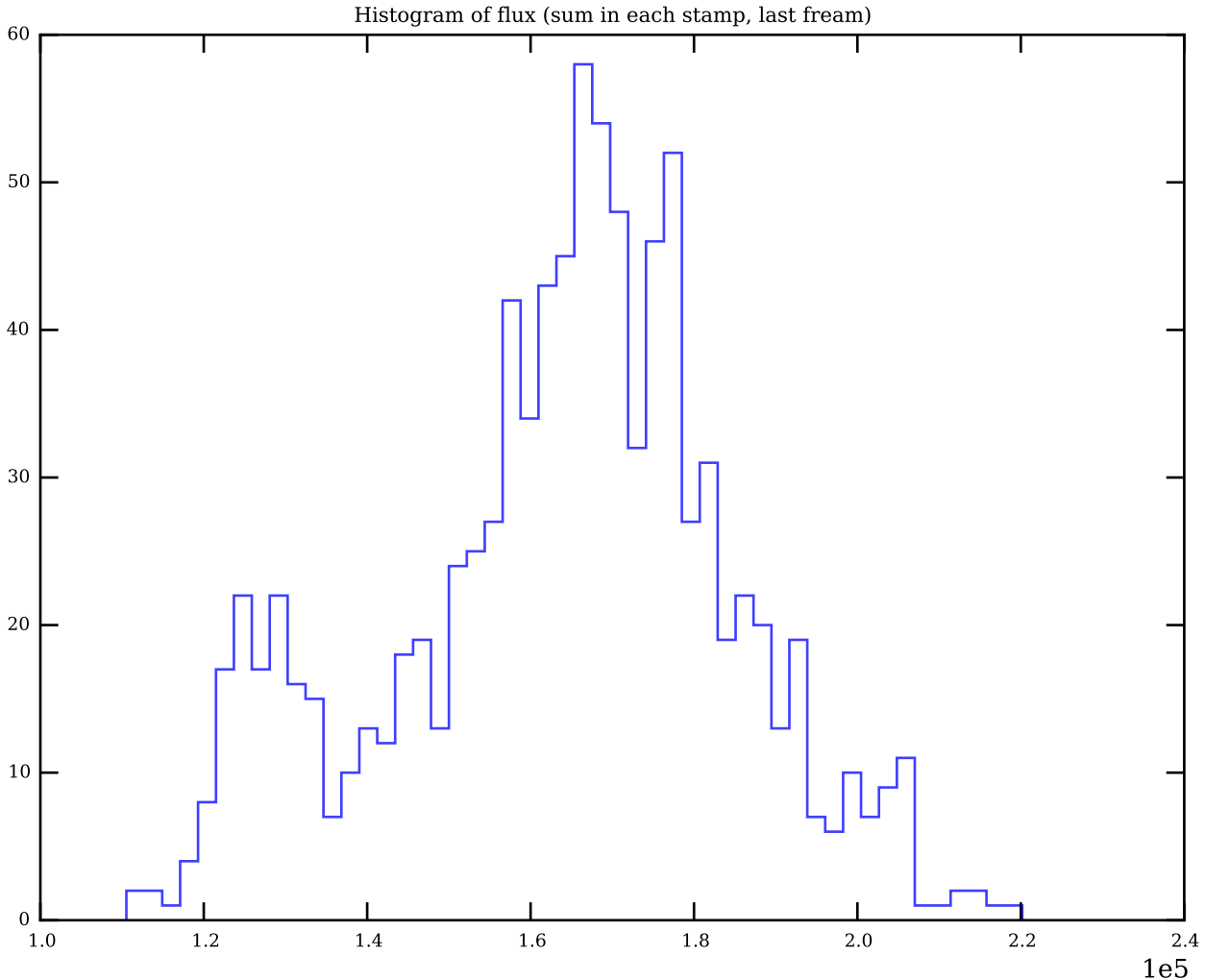

Center: (736,864)
77.7013 e/s
(1165.52 e)
382.841 e/s
(5742.62 e)
84.6431 e/s
(1269.65 e)
402.411 e/s
(6036.16 e)
6196.56 e/s
(92948.5 e)
364.32 e/s
(5464.8 e)
83.2505 e/s
(1248.76 e)
378.194 e/s
(5672.91 e)
85.1415 e/s
(1277.12 e)
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5
0.0
0.5
1.0
1.5
2.0
2.5

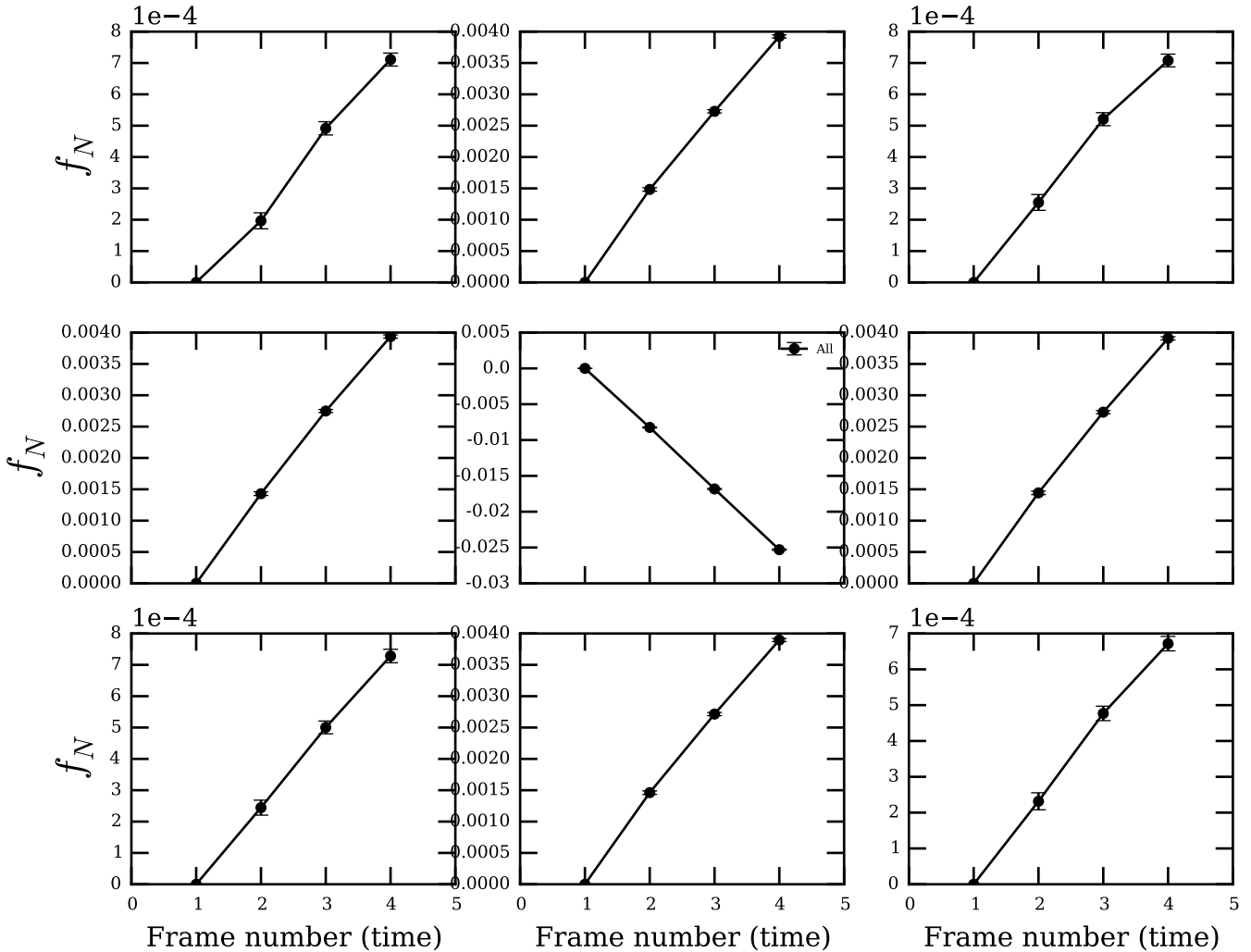

C2 flat
-8.08e-07 +/-
1.79e-17
-8.73e-07 +/-
9.75e-17
-8.67e-07 +/-
1.92e-17
-8.85e-07 +/-
1.48e-17
-8.55e-07 +/-
2.9e-19
-8.88e-07 +/-
3.77e-17
-8.65e-07 +/-
2.19e-17
-8.5e-07 +/-
8.8e-17
-8.7e-07 +/-
8.06e-17
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5
0.0
0.5
1.0
1.5
2.0
2.5

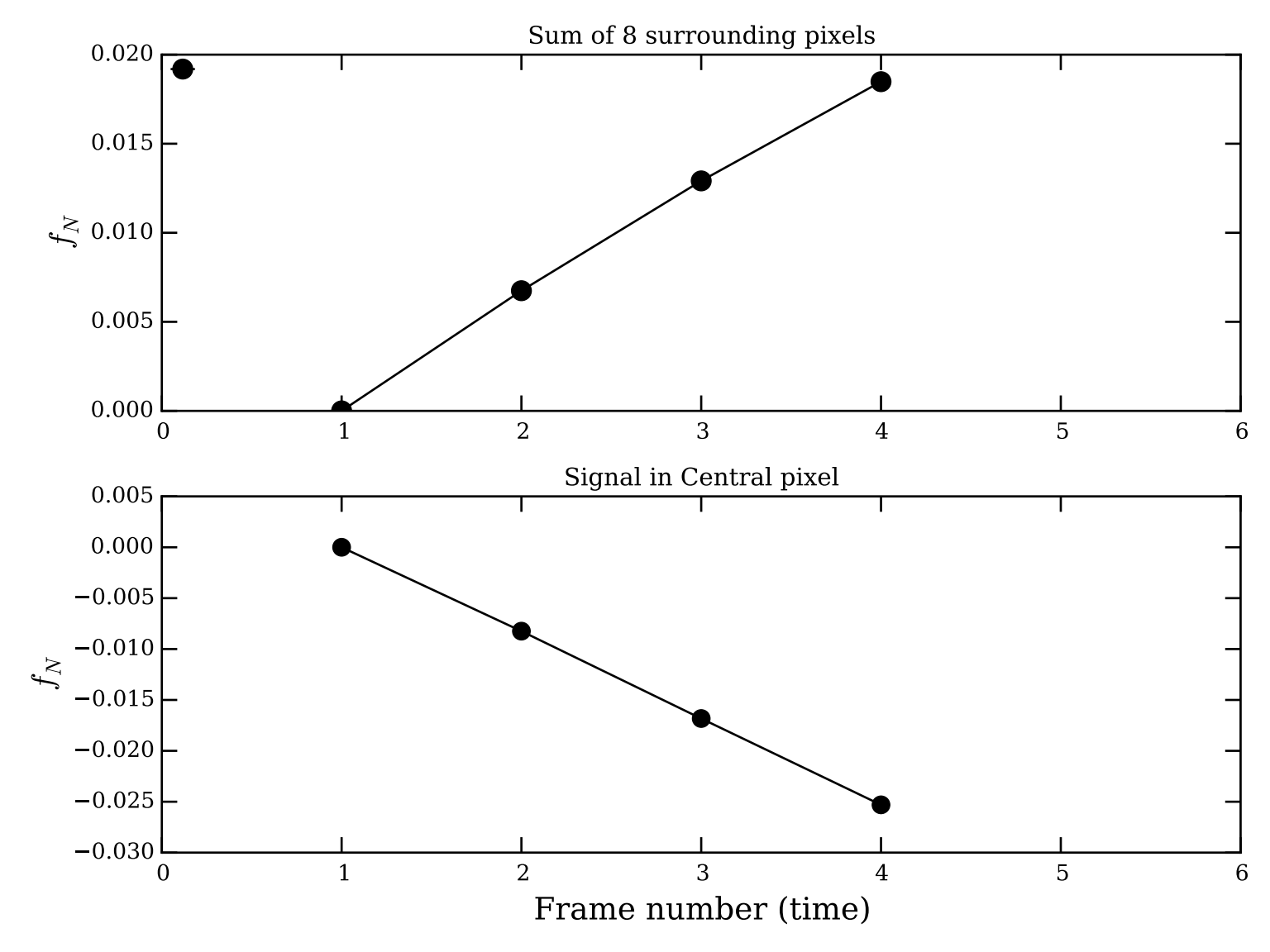

C2 spots
5.73e-05 +/-
2.51e-11
9.87e-06 +/-
3.98e-14
5.07e-05 +/-
1.29e-11
7.75e-06 +/-
7.6e-13
-1.02e-06 +/-
4.47e-18
1.19e-05 +/-
2.69e-13
2.11e-05 +/-
1.96e-10
1.02e-05 +/-
8.25e-16
2.26e-05 +/-
1.19e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5
0.0
0.5
1.0
1.5
2.0
2.5

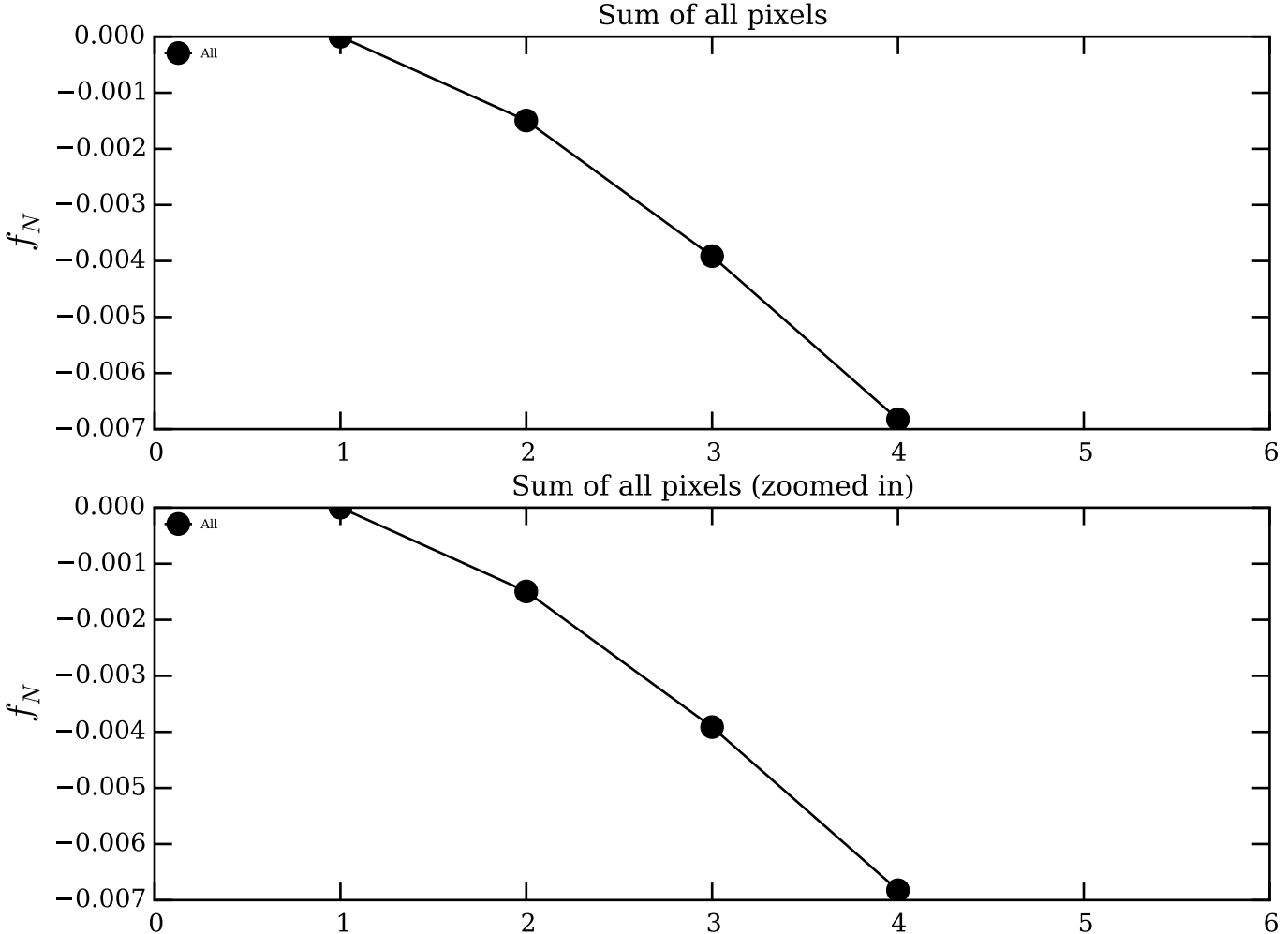

C2 spots after NL correction
1.34e-05 +/-
5.94e-10
-3.34e-07 +/-
4.42e-12
1.55e-05 +/-
4.98e-10
9.02e-07 +/-
1.84e-12
4.6e-09 +/-
4.68e-17
5.65e-07 +/-
3.5e-13
2.54e-05 +/-
1.69e-09
1.39e-06 +/-
1.13e-12
3.19e-05 +/-
7.28e-11
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
−0.5
0.0
0.5
1.0
1.5
2.0
2.5


0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
−0.01
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
0.020
0.015
0.010
0.005
0.000
f_N
0
1
2
3
4
5
6
Signal in Central pixel
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
Frame number (time)


Sum of all pixels
All
0.000
−0.001
−0.002
−0.003
−0.004
−0.005
−0.006
−0.007
f_N
0
1
2
3
4
5
6
Sum of all pixels (zoomed in)
All
0.000
−0.001
−0.002
−0.003
−0.004
−0.005
−0.006
−0.007
f_N
0
1
2
3
4
5
6