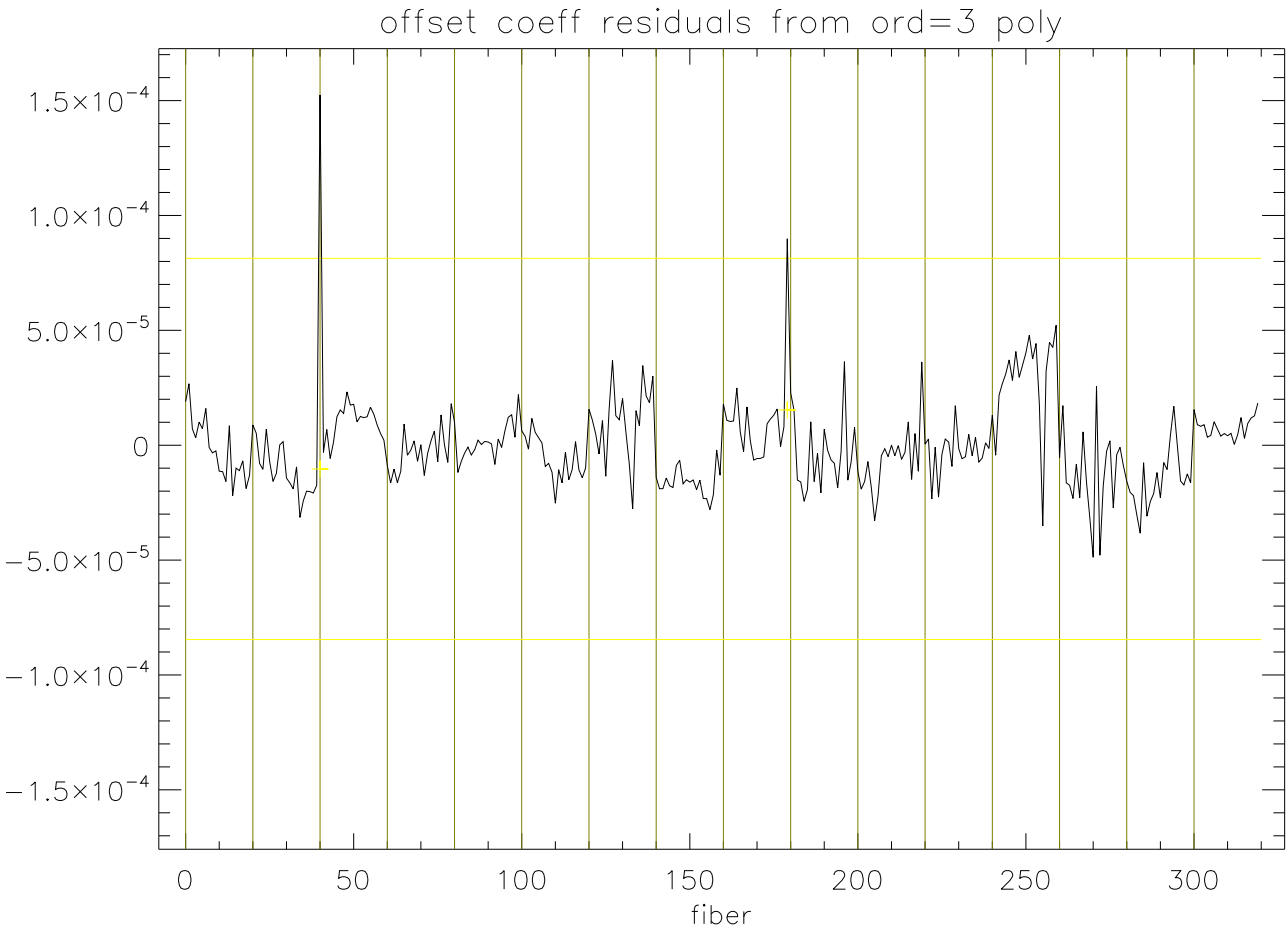
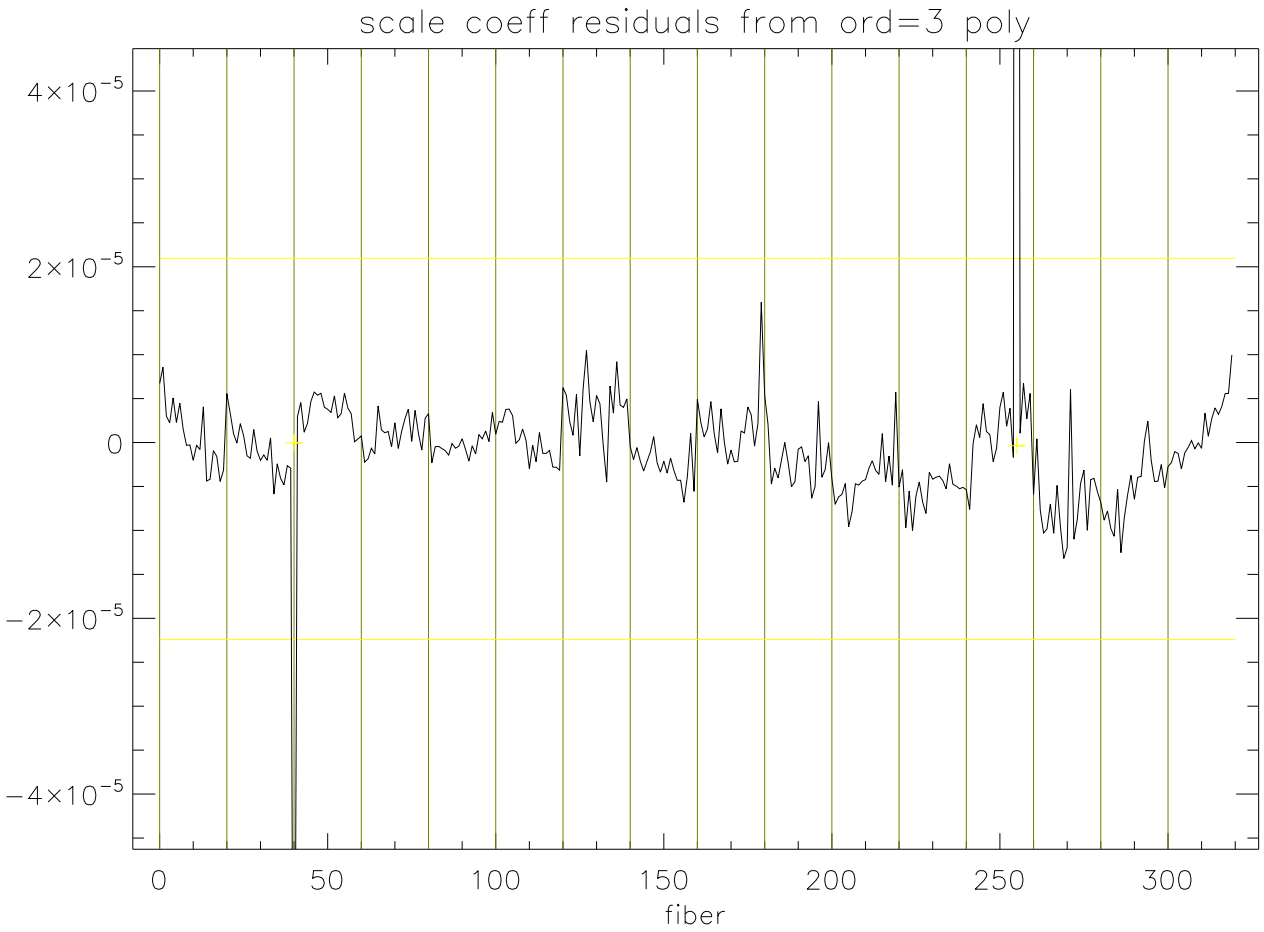
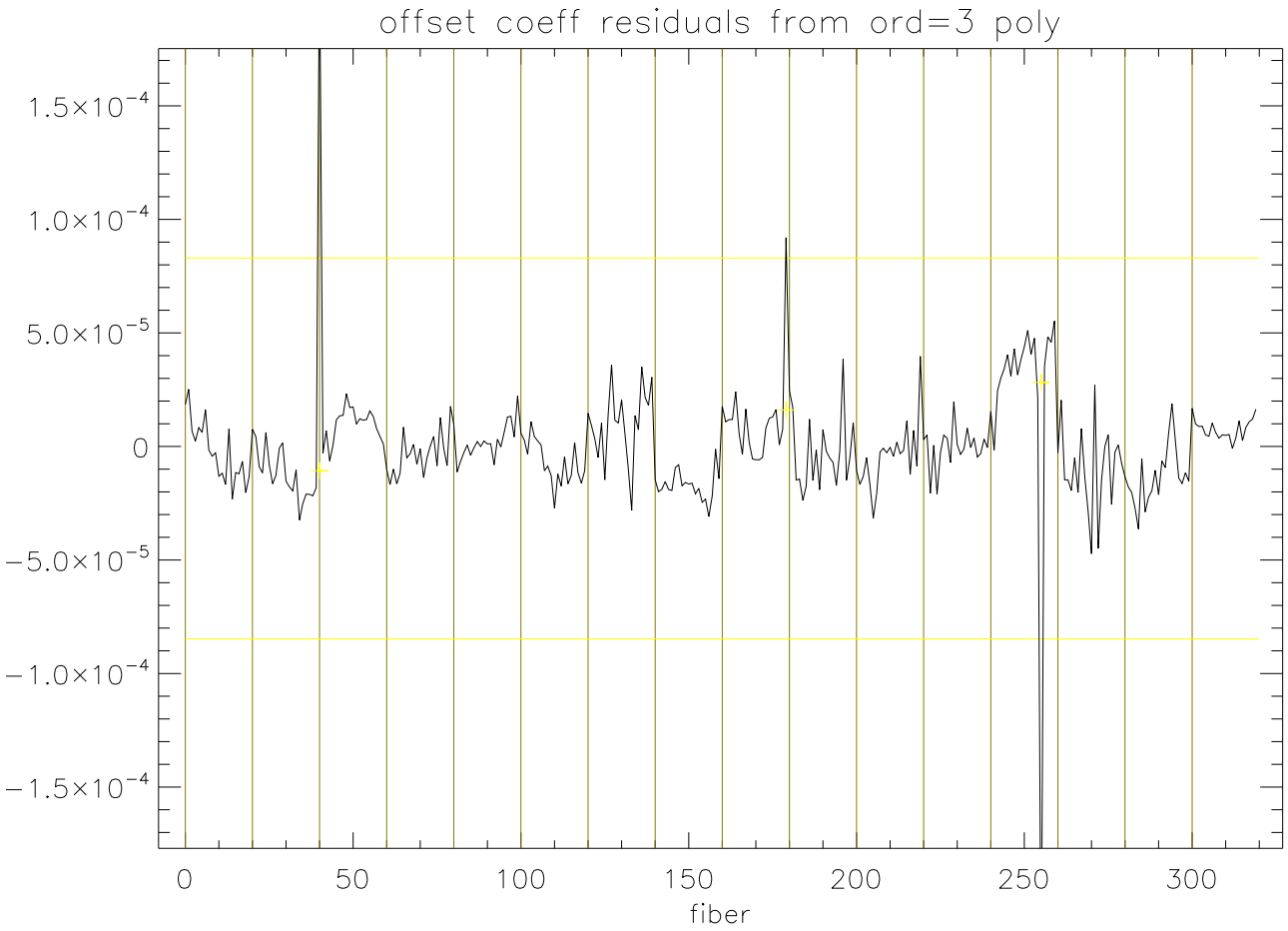
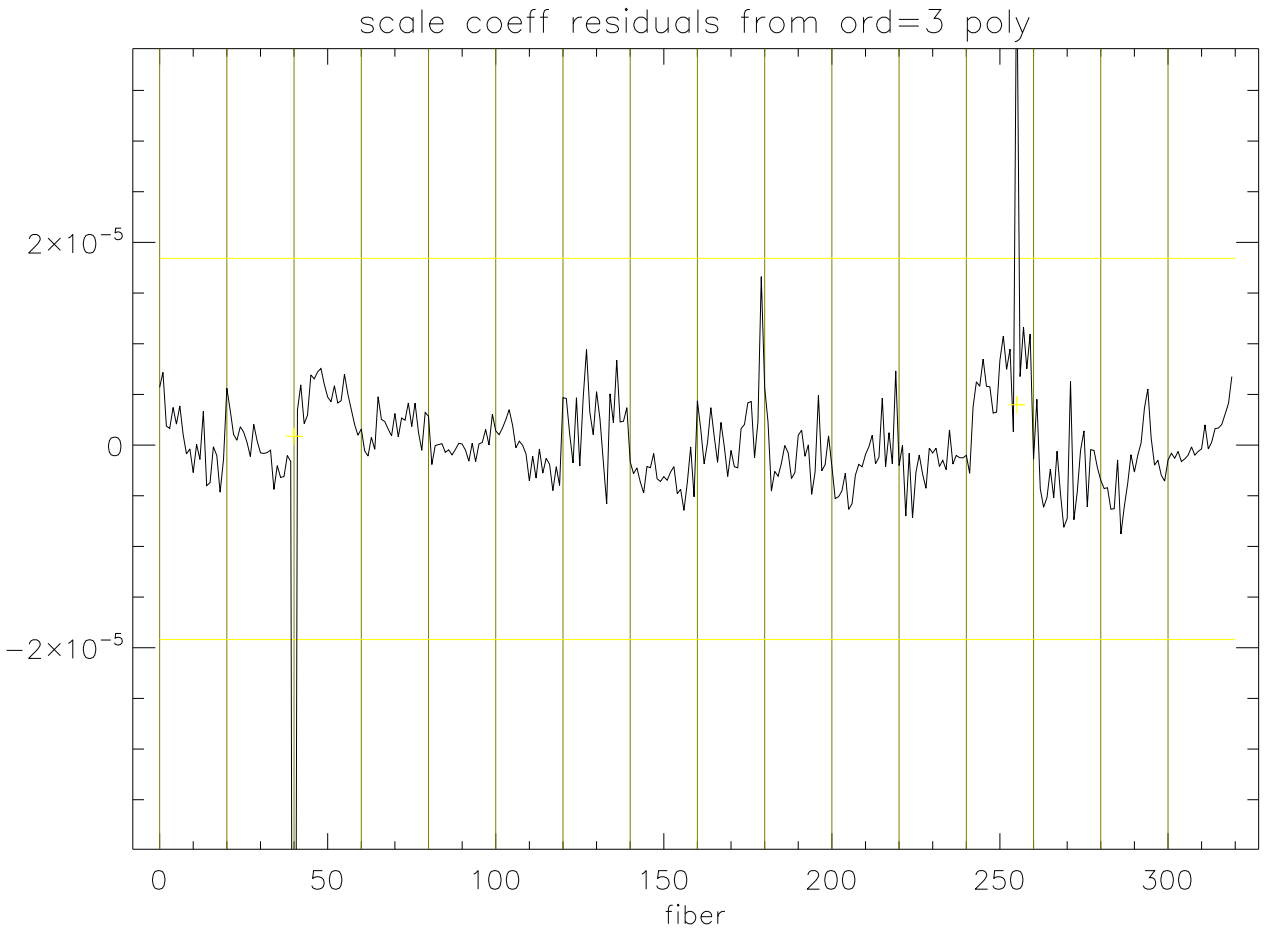
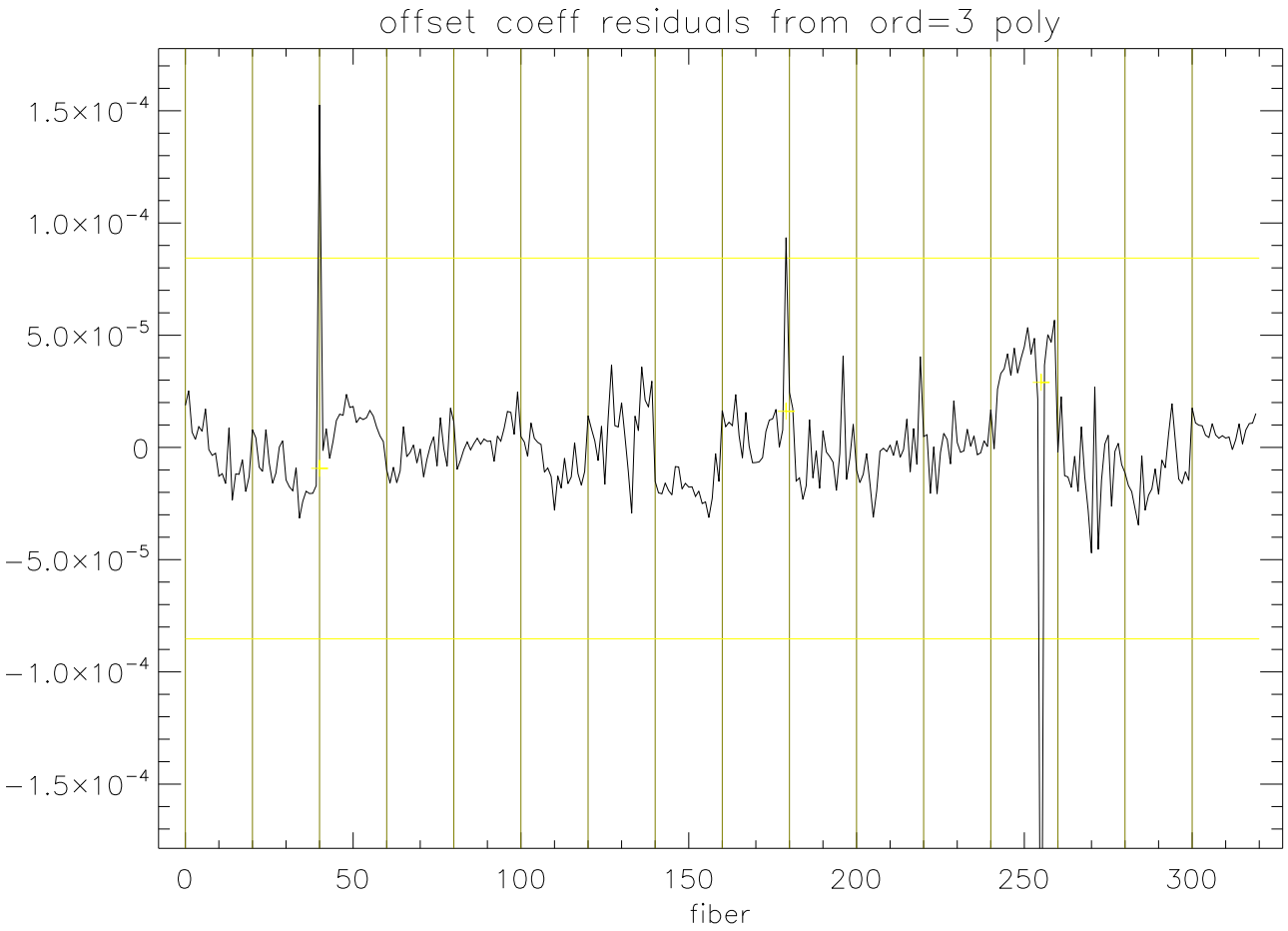
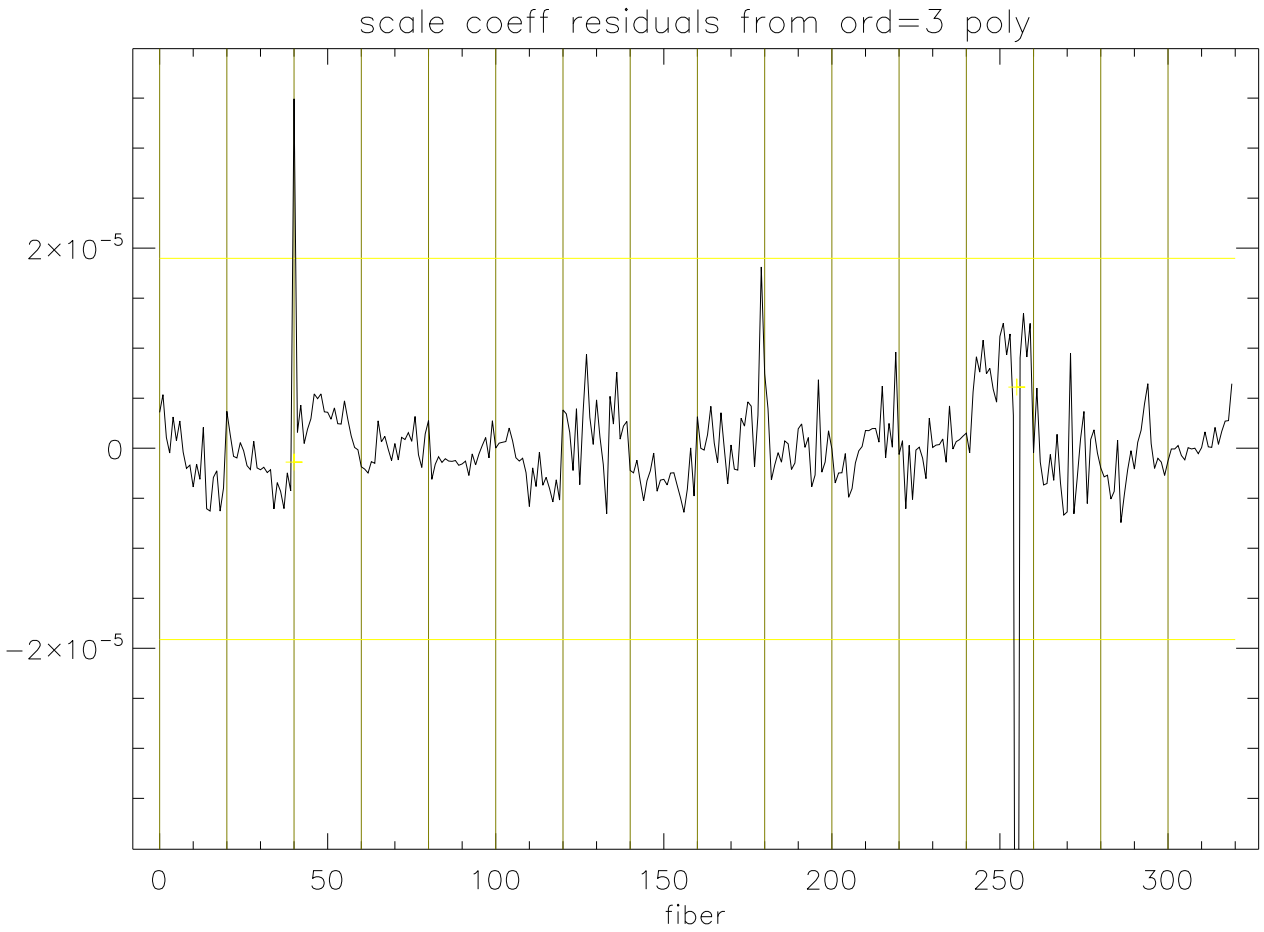

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

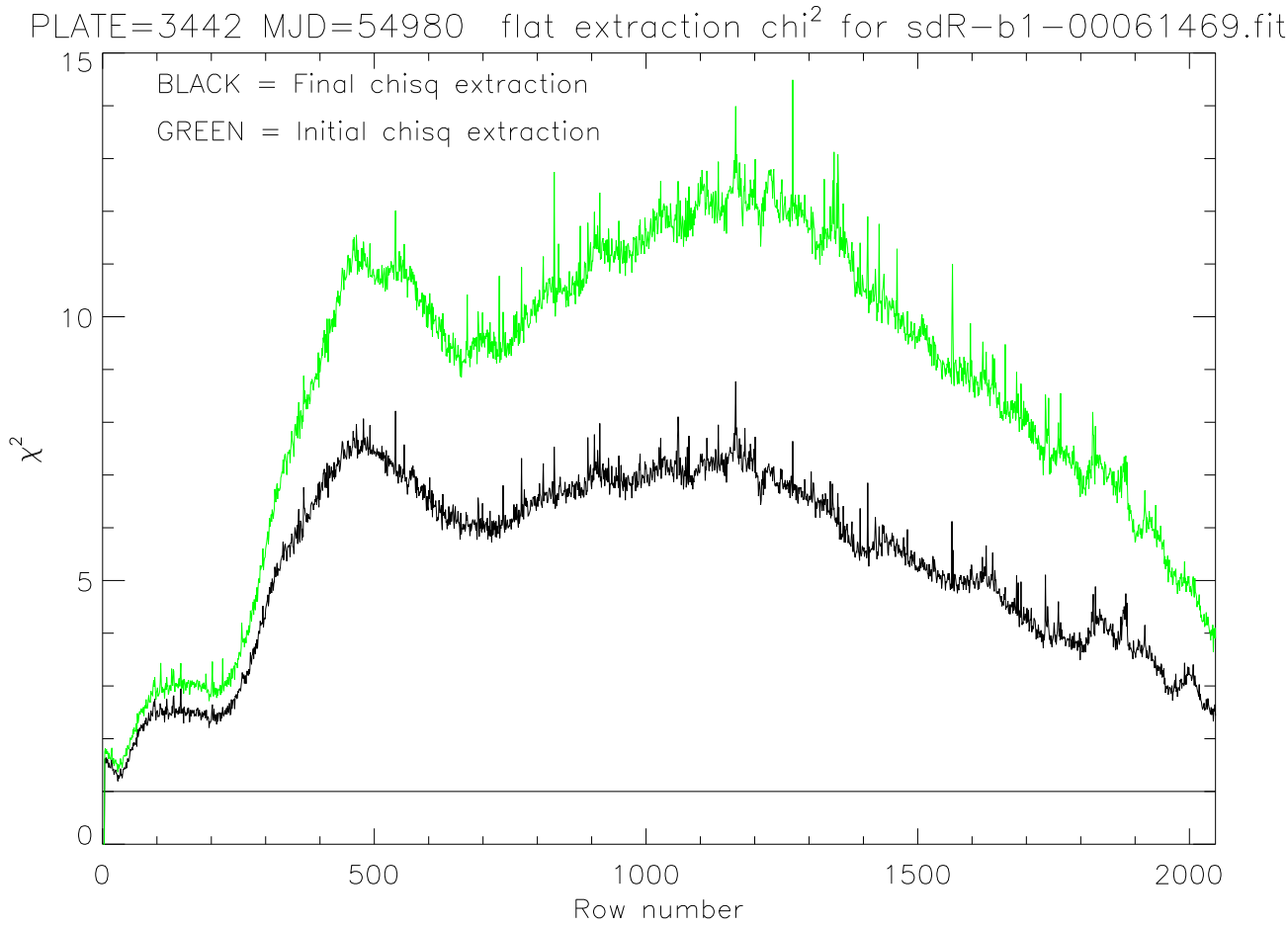

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

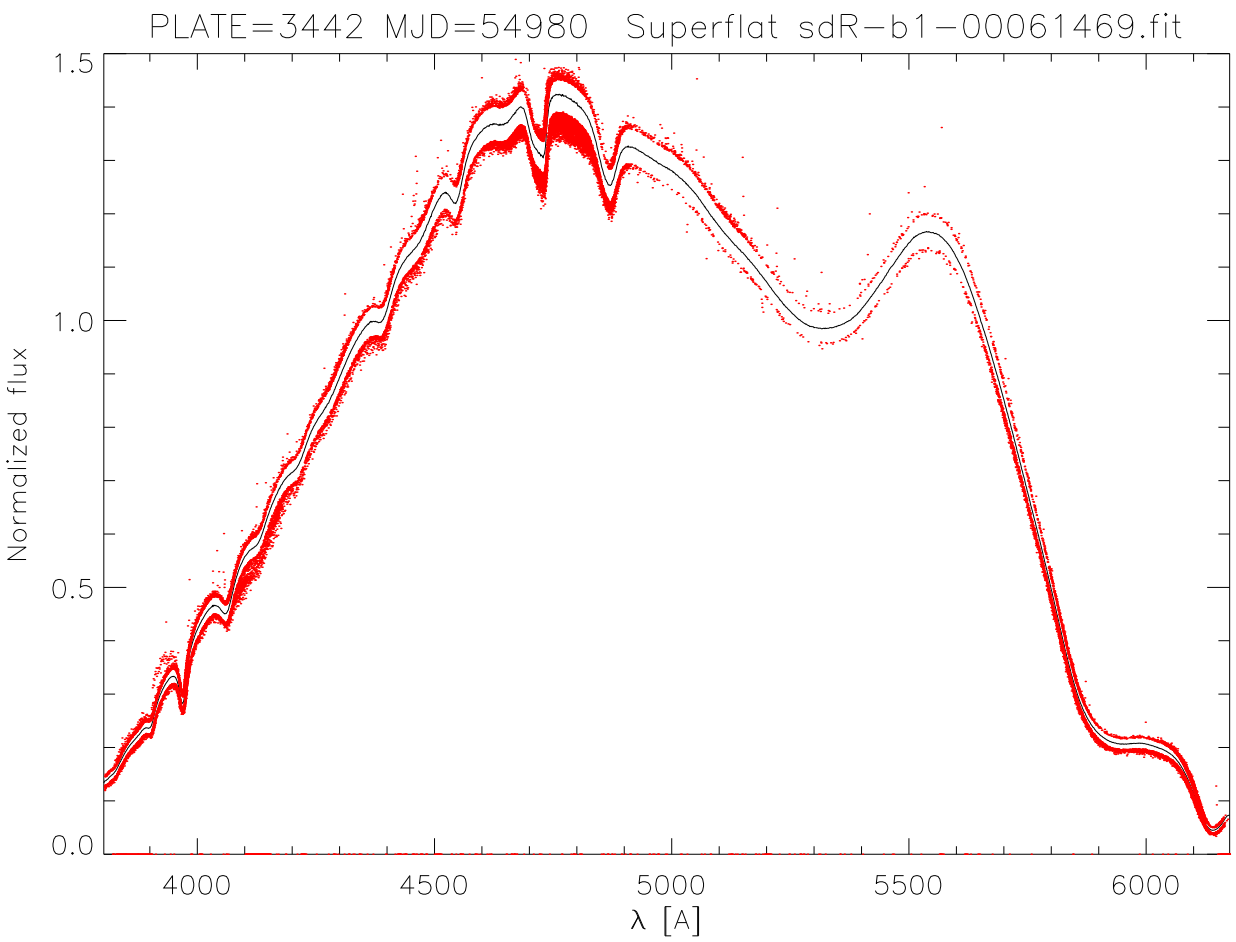

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

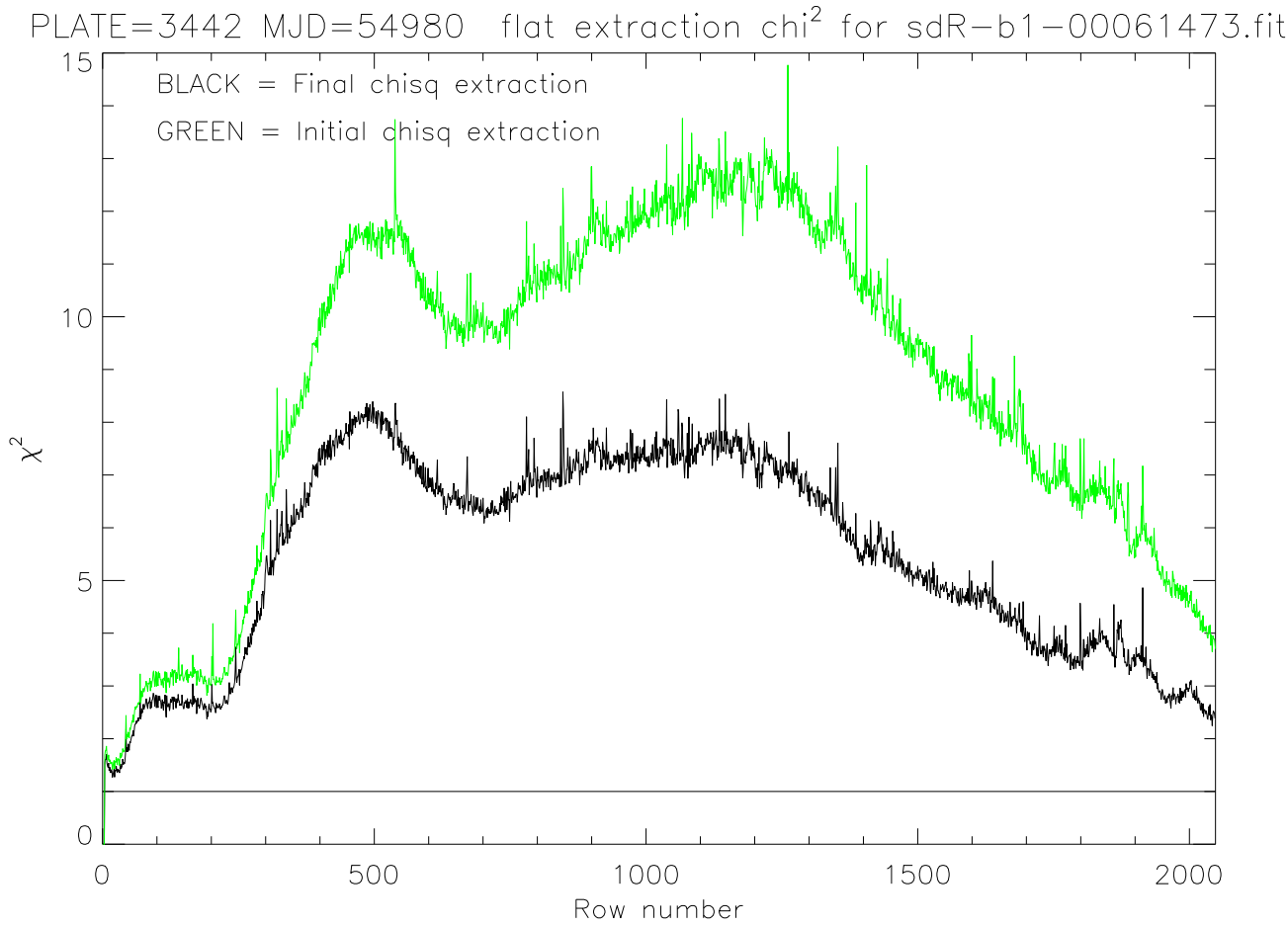

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

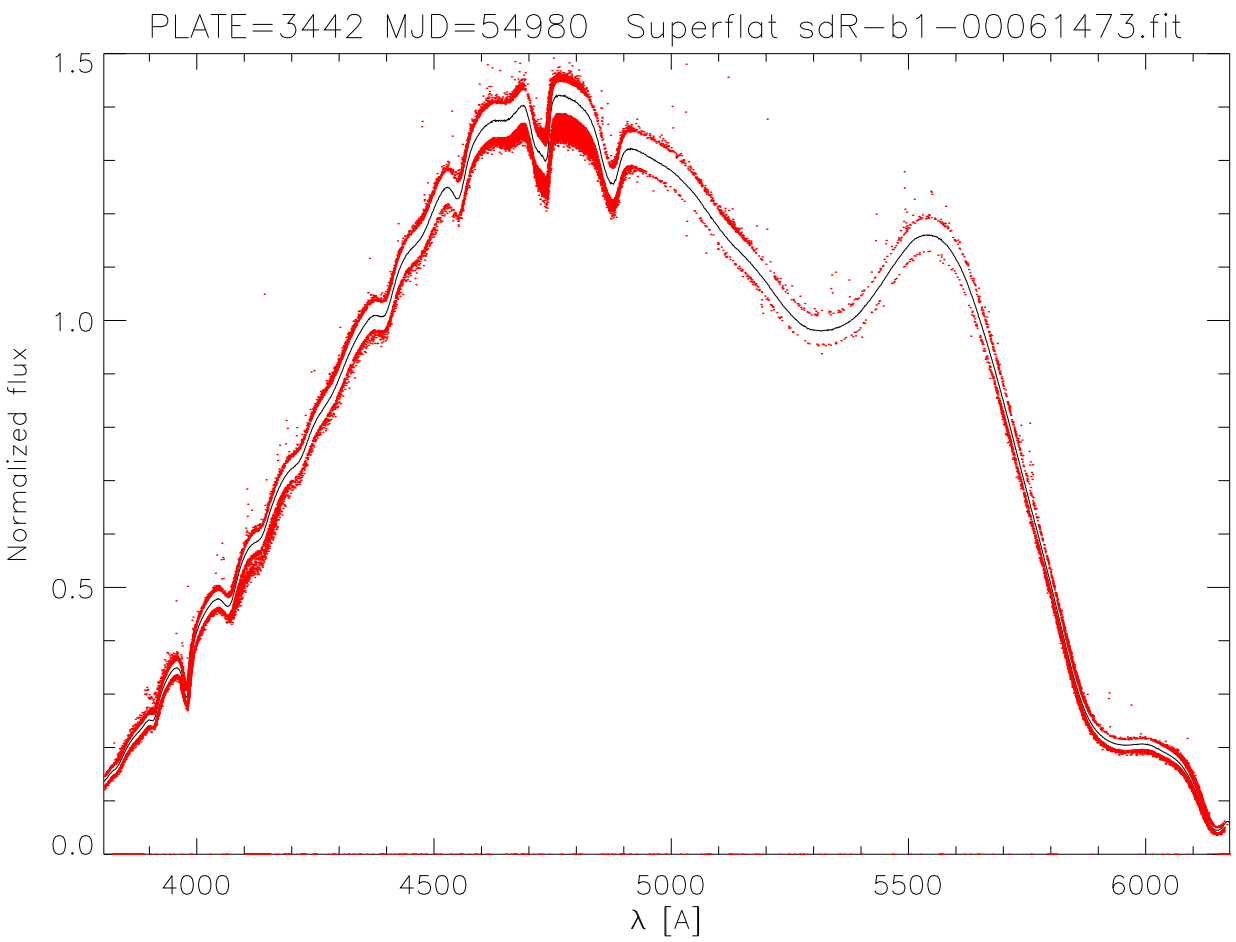

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

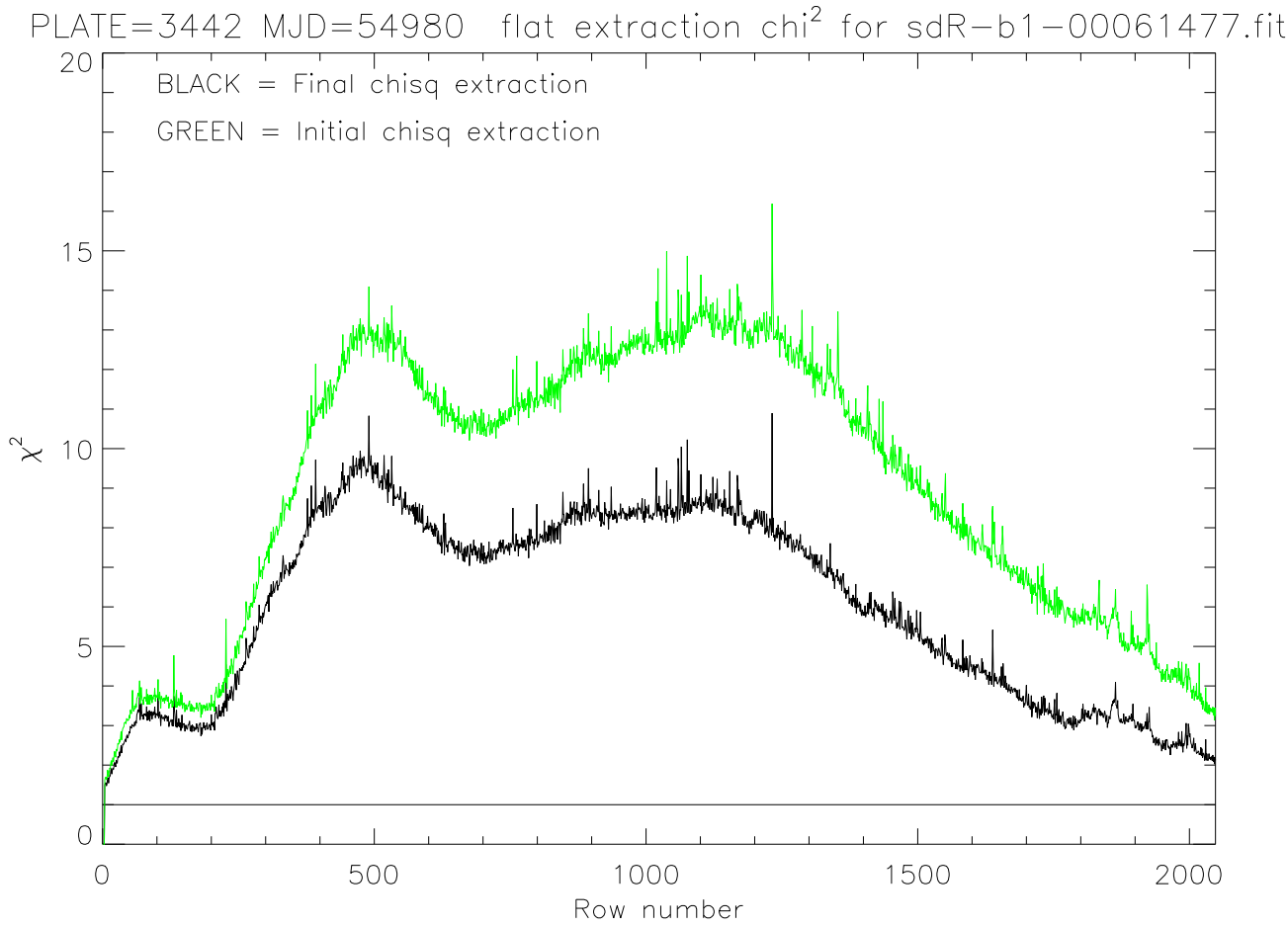

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

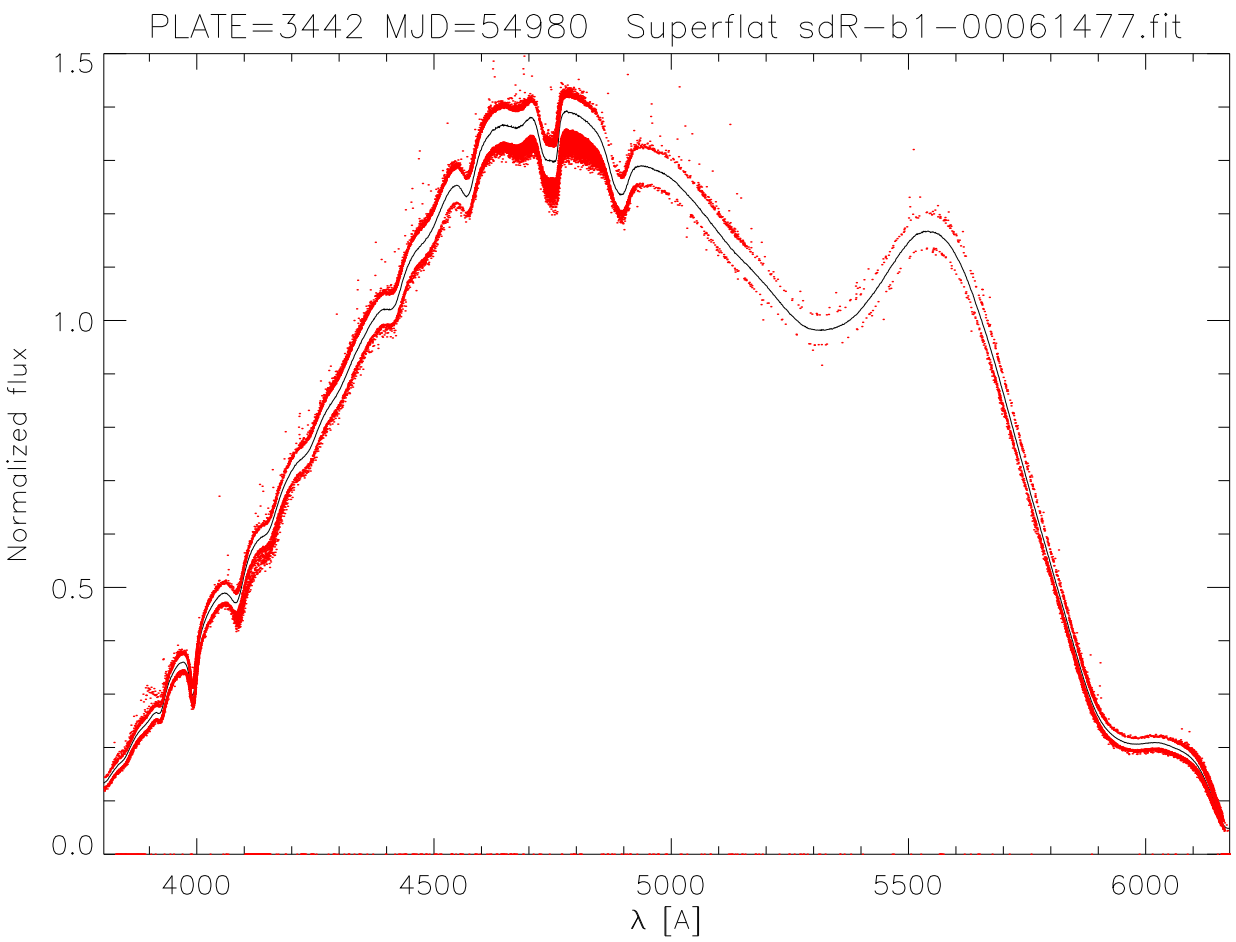

PLATE=3442 MJD=54980 flat extraction chi^2 for sdR−b1−00061469.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
0
500
1000
1500
2000
Row number

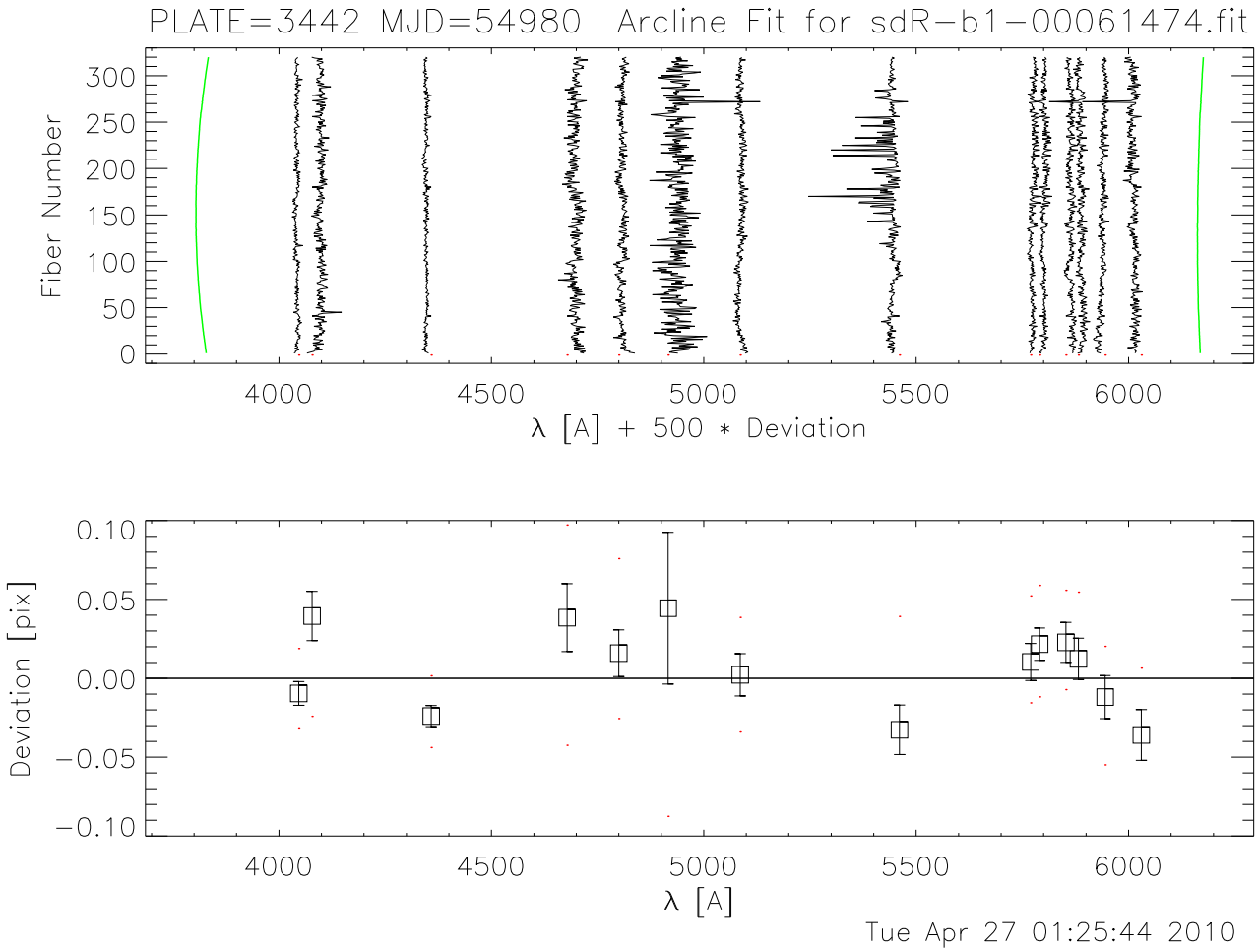

PLATE=3442 MJD=54980 Superflat sdR-b1-00061469.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

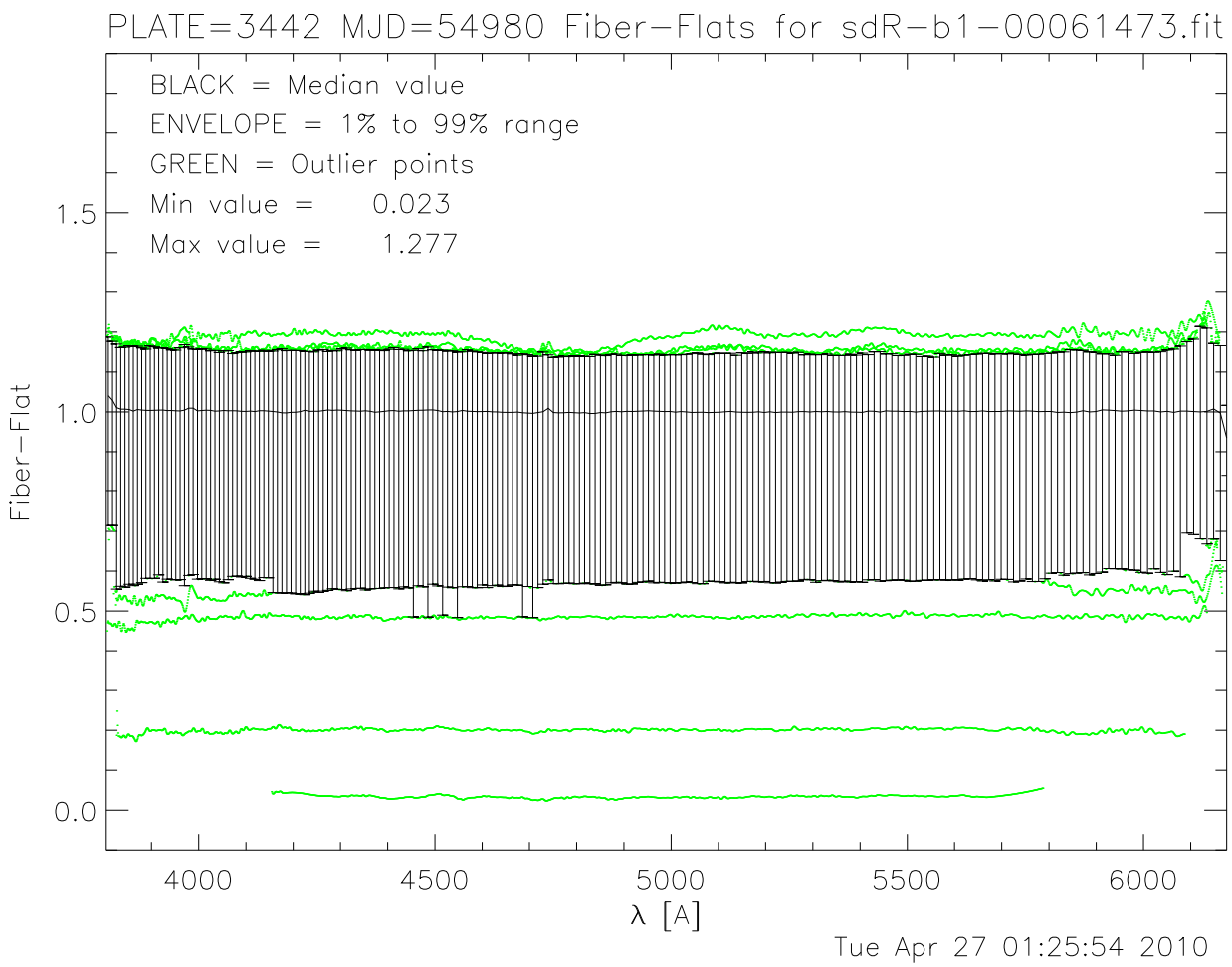

PLATE=3442 MJD=54980 flat extraction chi^2 for sdR-b1-00061473.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

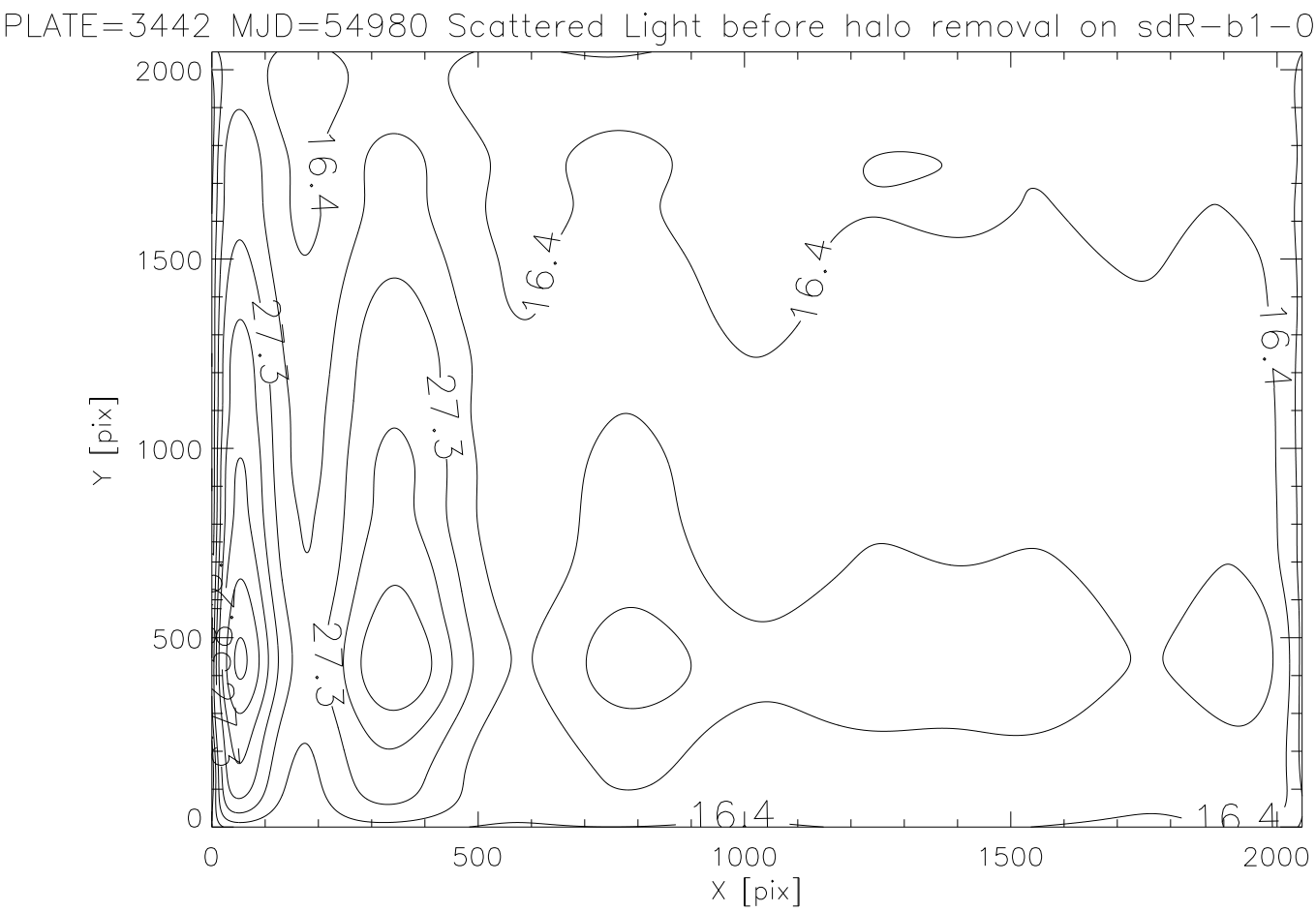

PLATE=3442 MJD=54980 Superflat sdR-b1-00061473.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

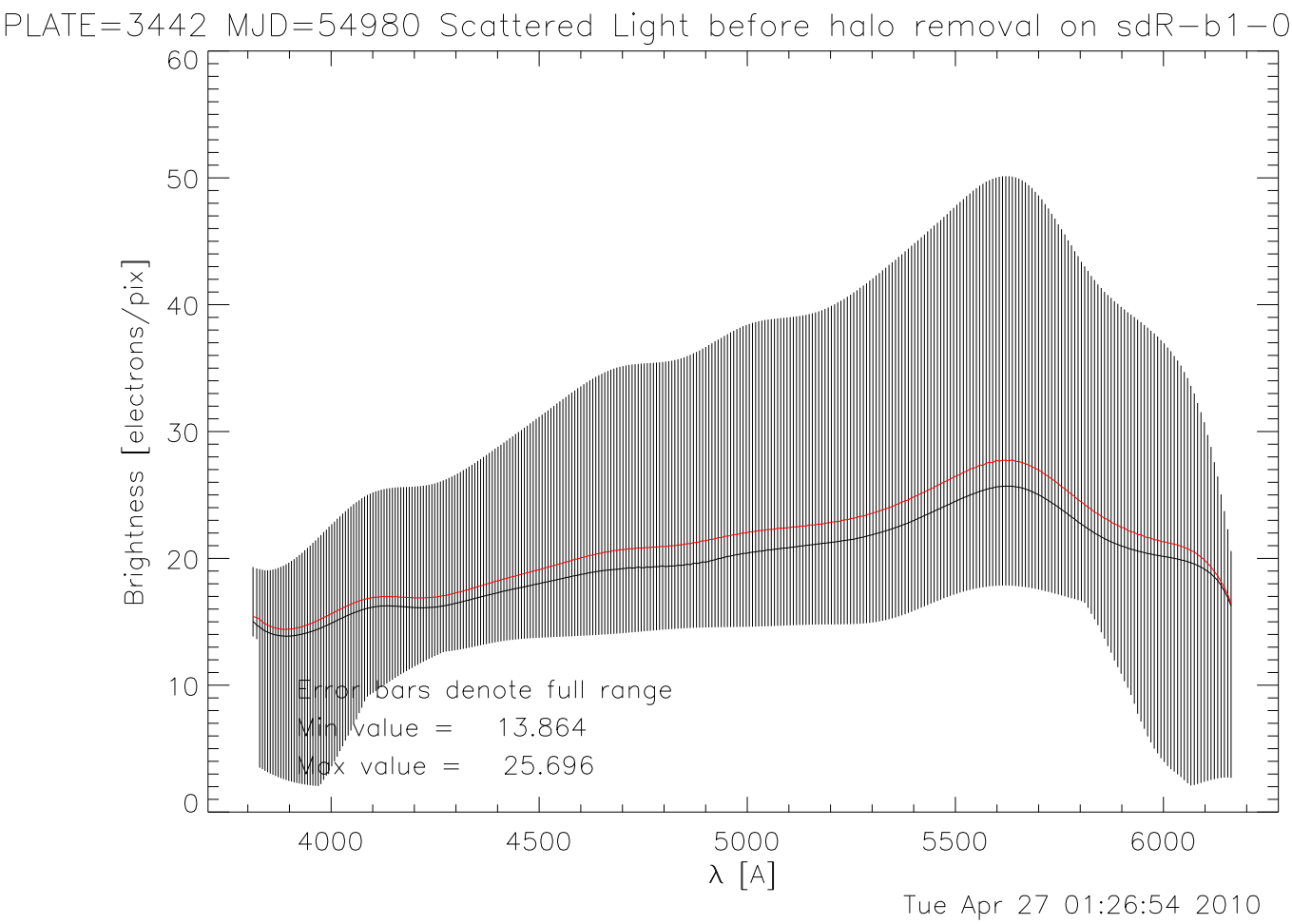

PLATE=3442 MJD=54980 flat extraction chi^2 for sdR-b1-00061477.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

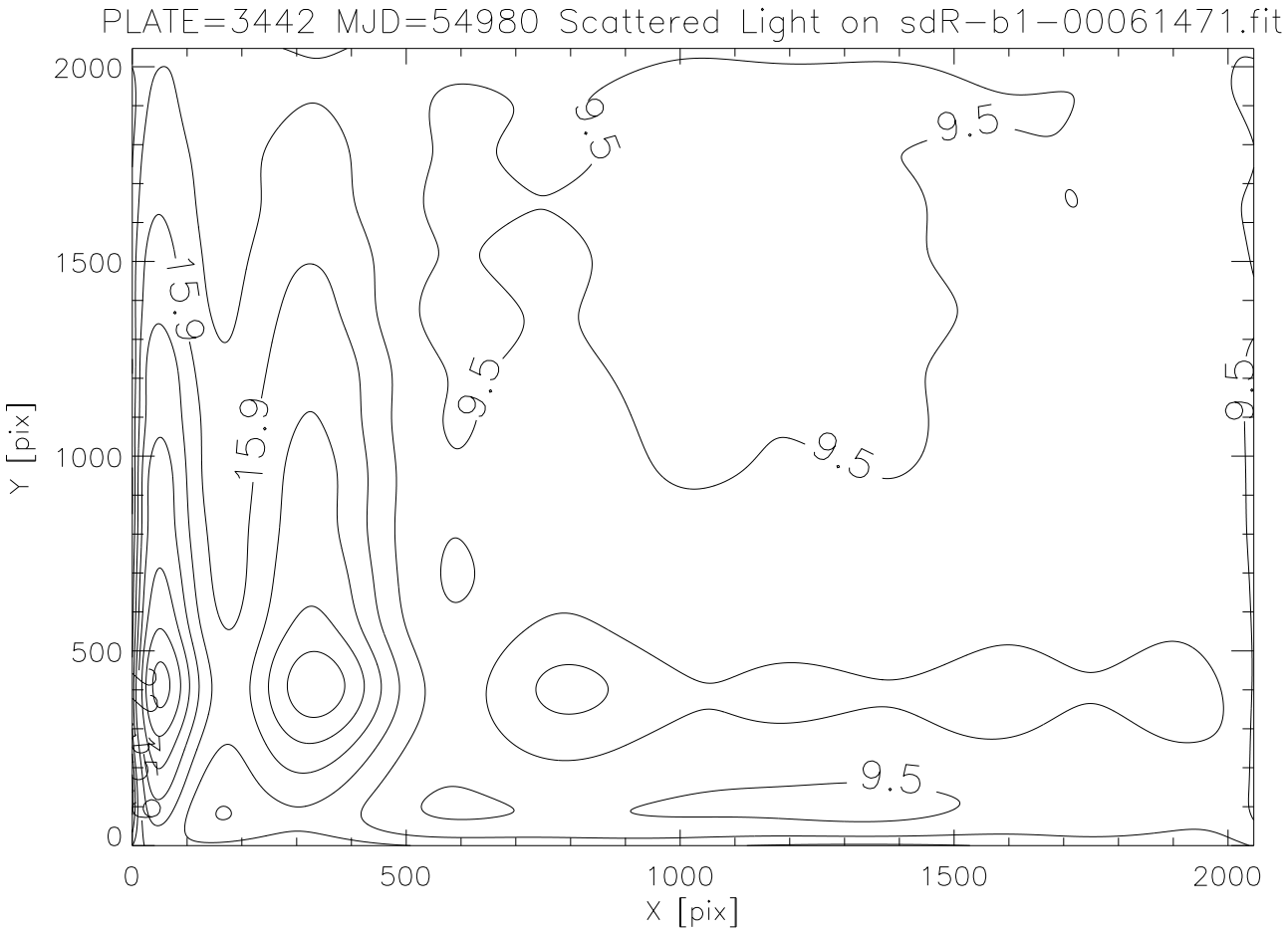

PLATE=3442 MJD=54980 Superflat sdR-b1-00061477.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

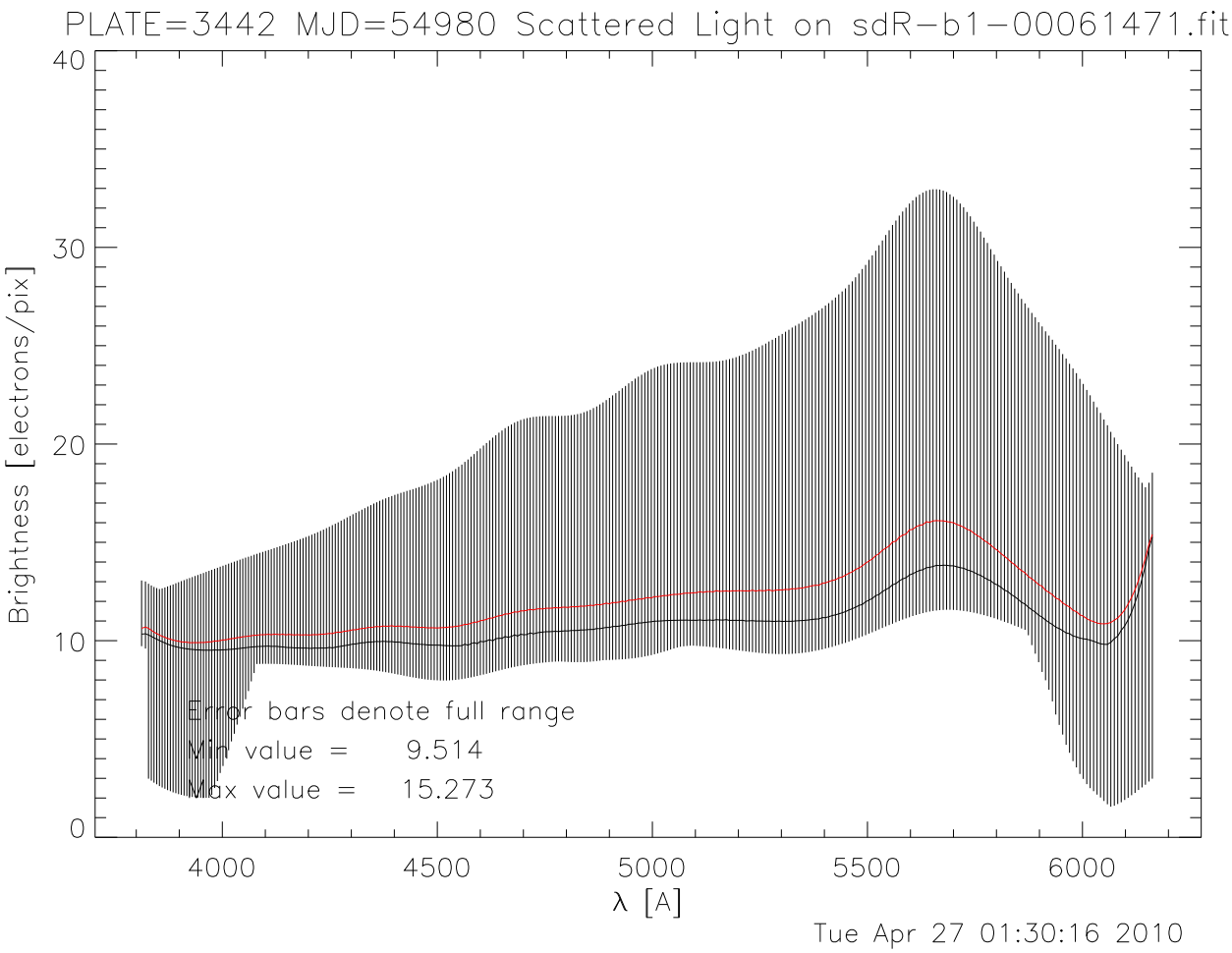

PLATE=3442 MJD=54980 Arcline Fit for sdR-b1-00061474.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Tue Apr 27 01:25:44 2010

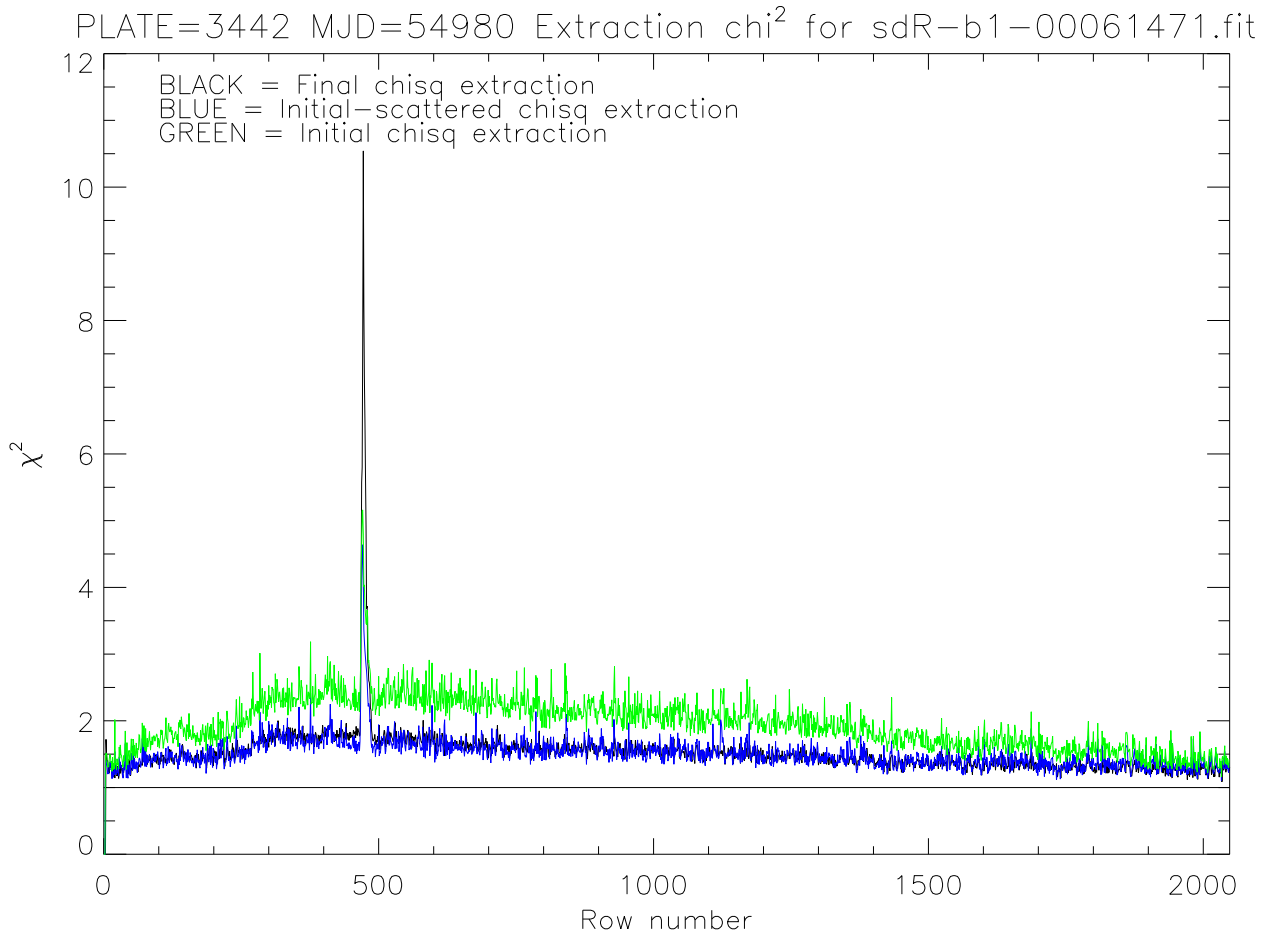

PLATE=3442 MJD=54980 Fiber−Flats for sdR−b1−00061473.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.023
Max value = 1.277
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Apr 27 01:25:54 2010

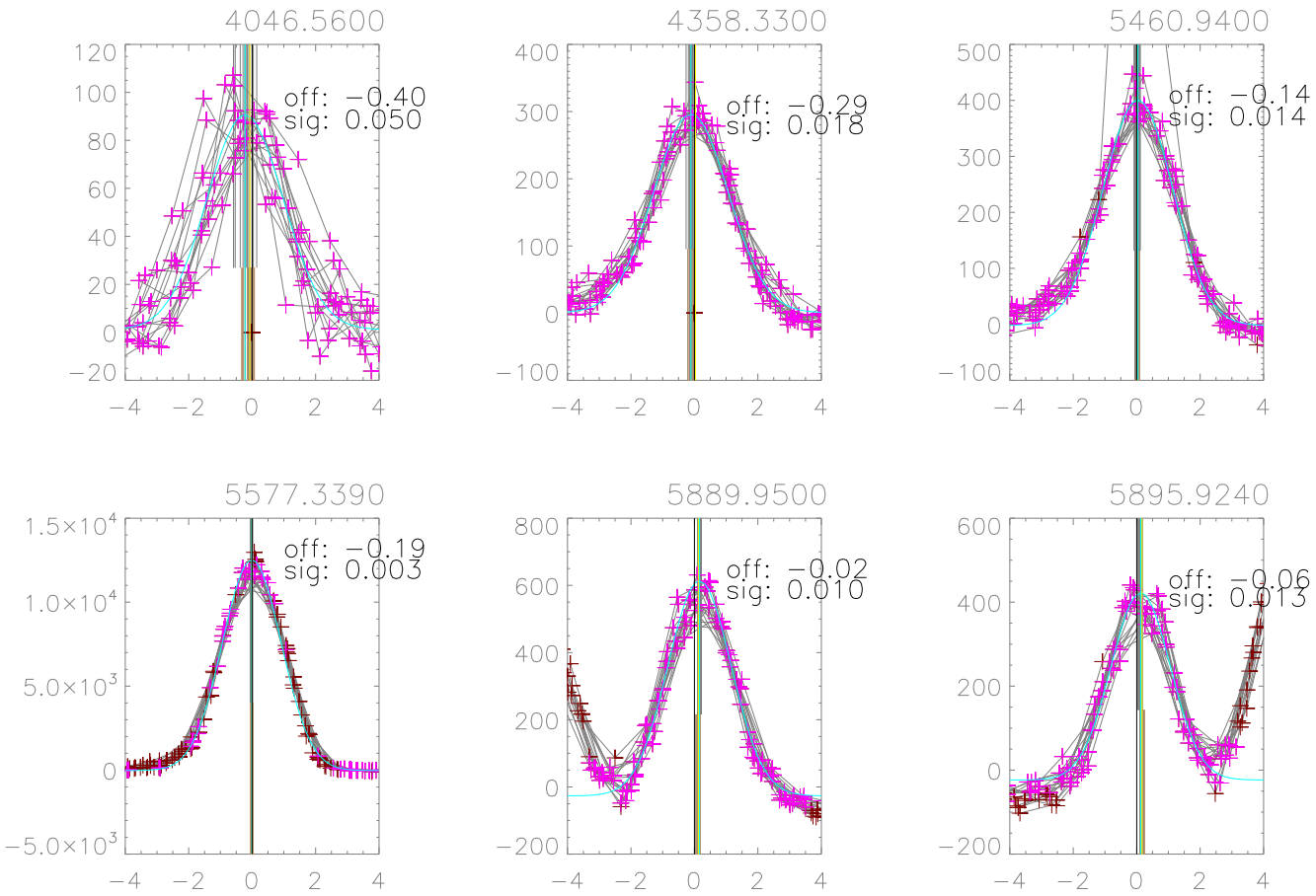

PLATE=3442 MJD=54980 Scattered Light before halo removal on sdR−b1−00061471.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
16.4
27.3

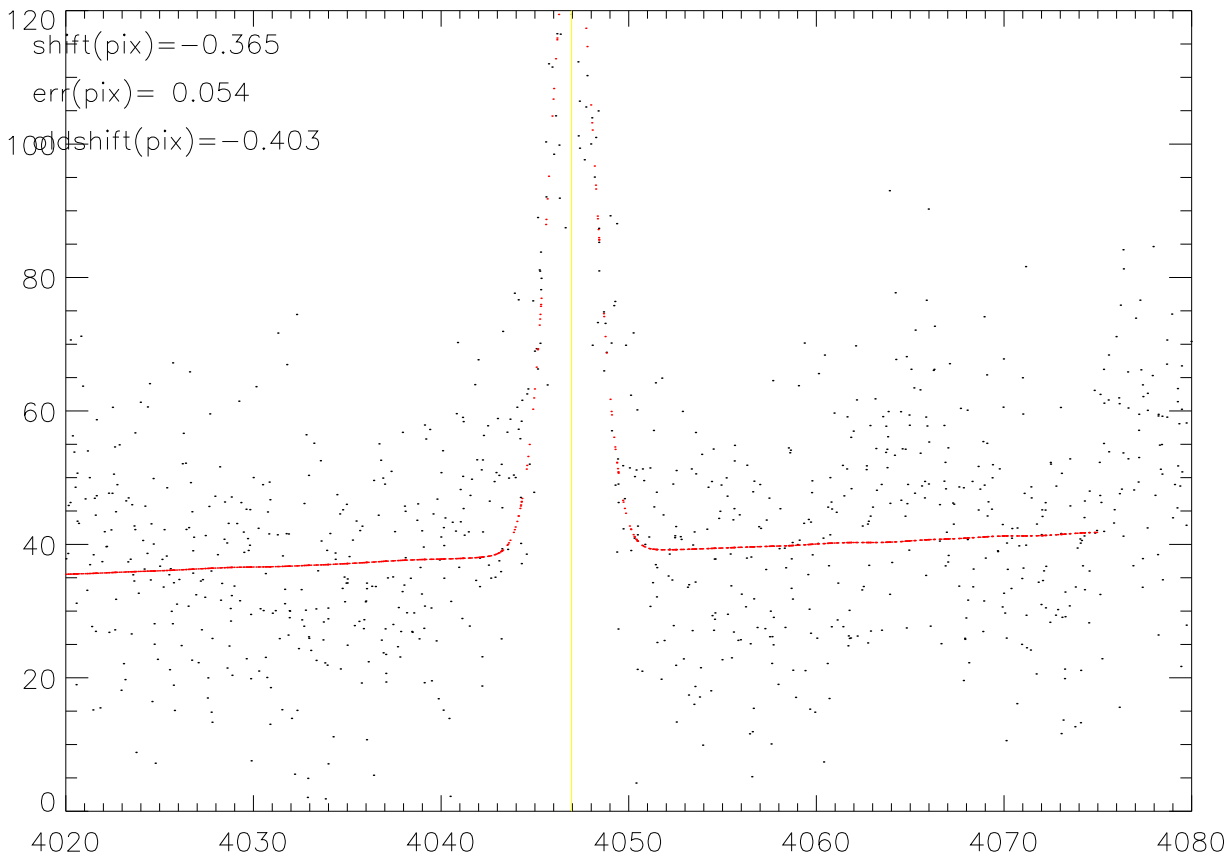

PLATE=3442 MJD=54980 Scattered Light before halo removal on sdR-b1-00061471.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 13.864
Max value = 25.696
Tue Apr 27 01:26:54 2010

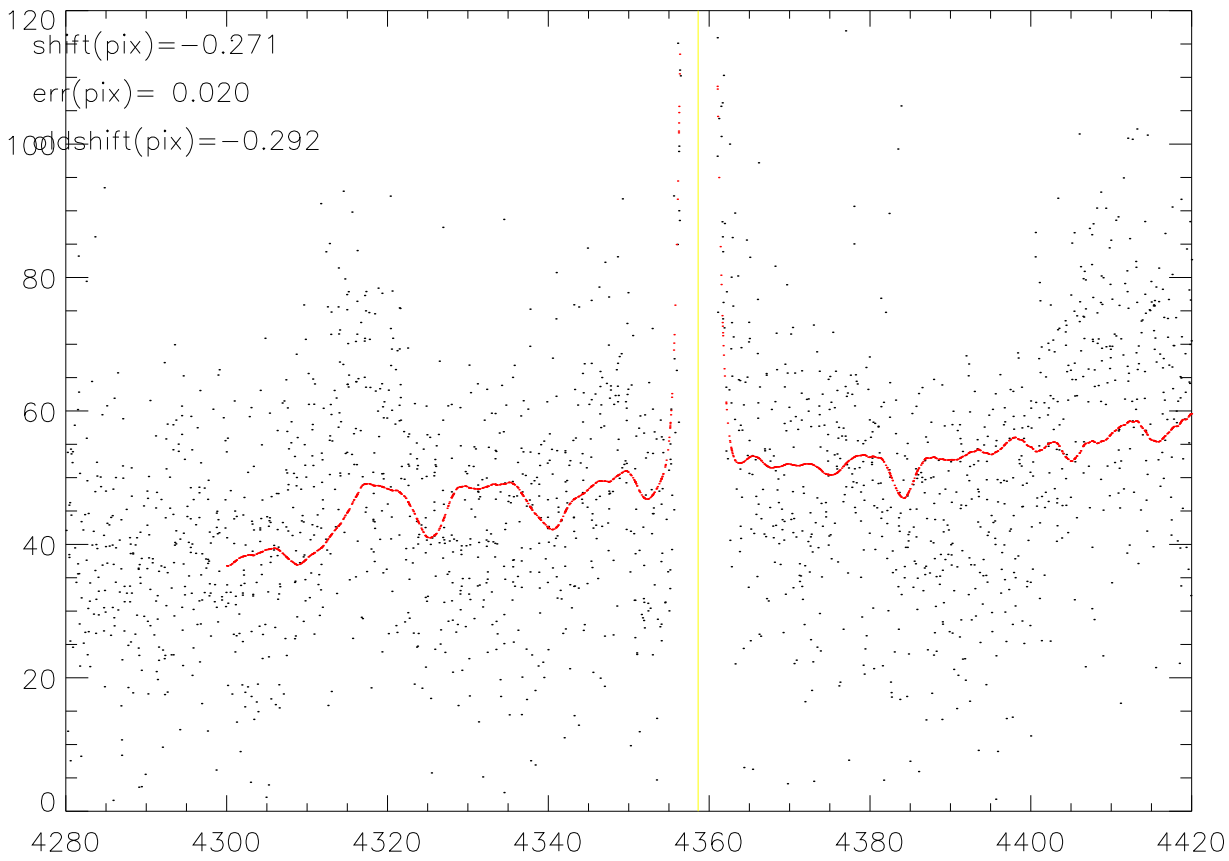

PLATE=3442 MJD=54980 Scattered Light on sdR-b1-00061471.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
15.9
9.5

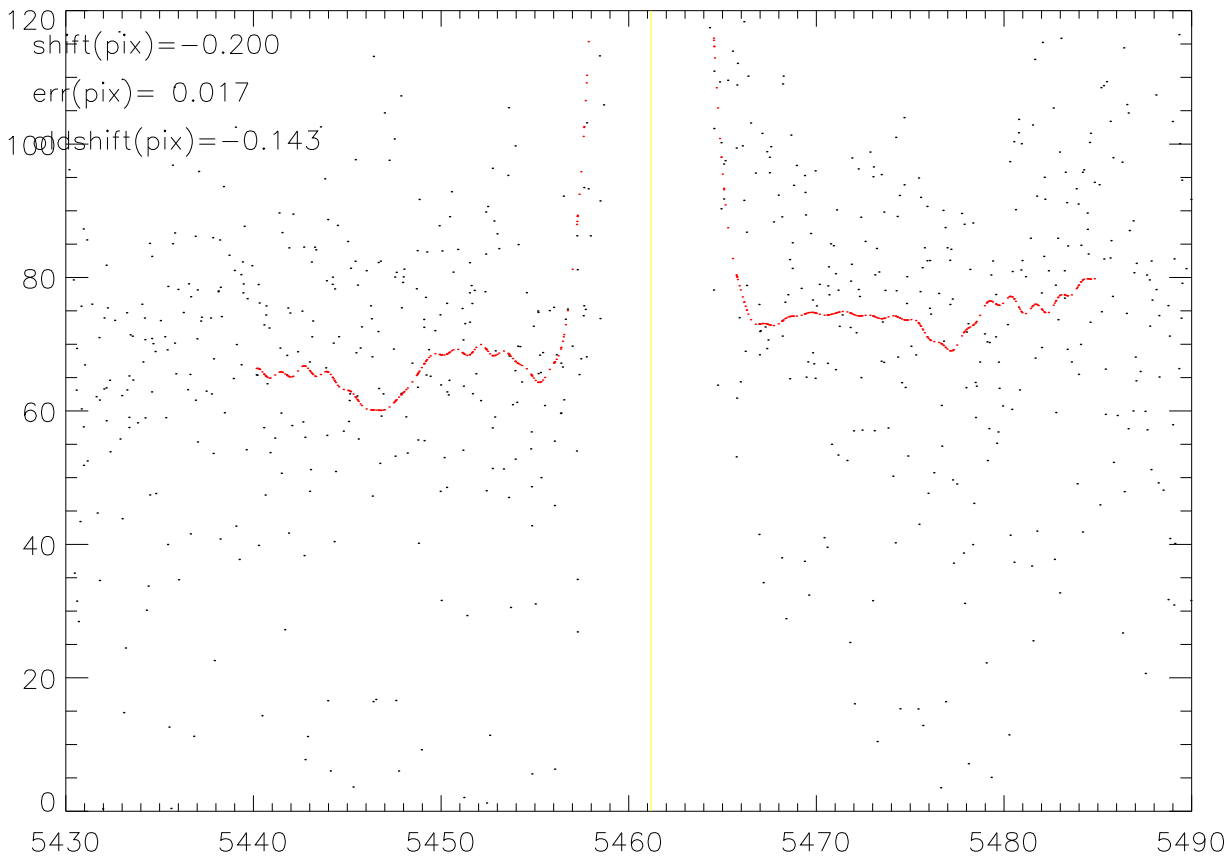

PLATE=3442 MJD=54980 Scattered Light on sdR-b1-00061471.fit
Brightness [electrons/pix]
40
30
20
10
0
Error bars denote full range
Min value = 9.514
Max value = 15.273
4000
4500
5000
5500
6000
λ [A]
Tue Apr 27 01:30:16 2010

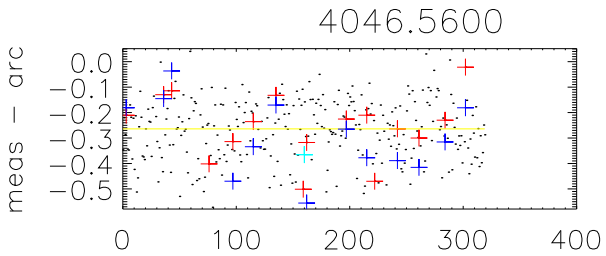

PLATE=3442 MJD=54980 Extraction chi^2 for sdR-b1-00061471.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
0
500
1000
1500
2000
Row number

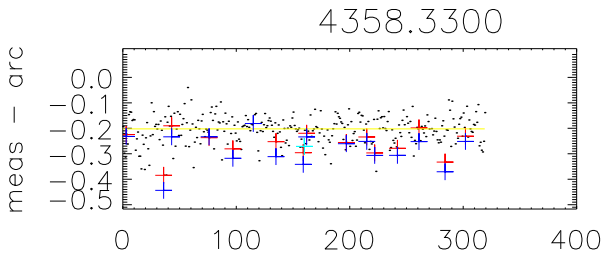

4046.5600
off: −0.40
sig: 0.050
4358.3300
off: −0.29
sig: 0.018
5460.9400
off: −0.14
sig: 0.014
5577.3390
off: −0.19
sig: 0.003
5889.9500
off: −0.02
sig: 0.010
5895.9240
off: −0.06
sig: 0.013

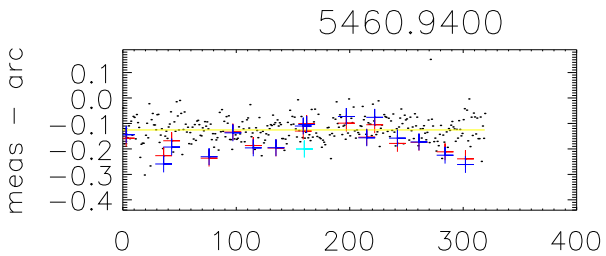

shift(pix)=−0.365
err(pix)= 0.054
oldshift(pix)=−0.403
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

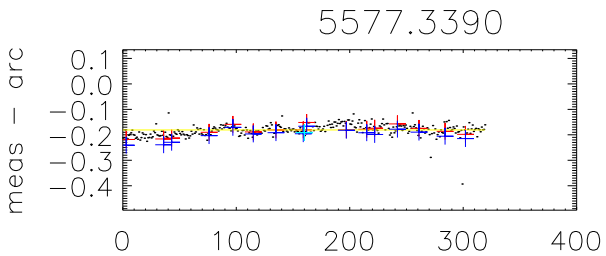

shift(pix)=−0.271
err(pix)= 0.020
oldshift(pix)=−0.292
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

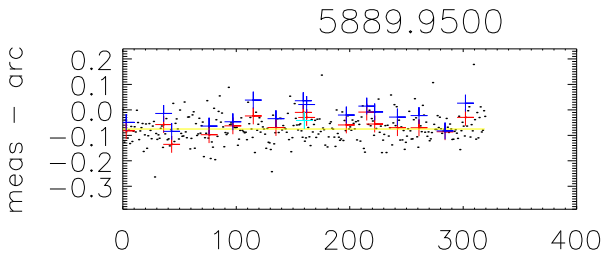

shift(pix)=−0.200
err(pix)= 0.017
oldshift(pix)=−0.143
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

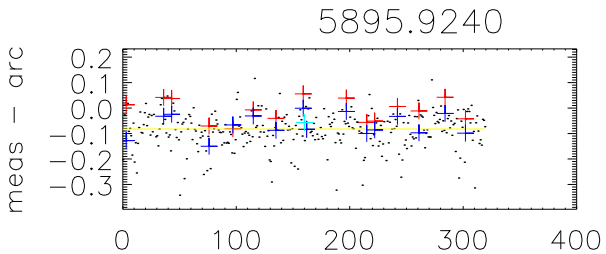

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

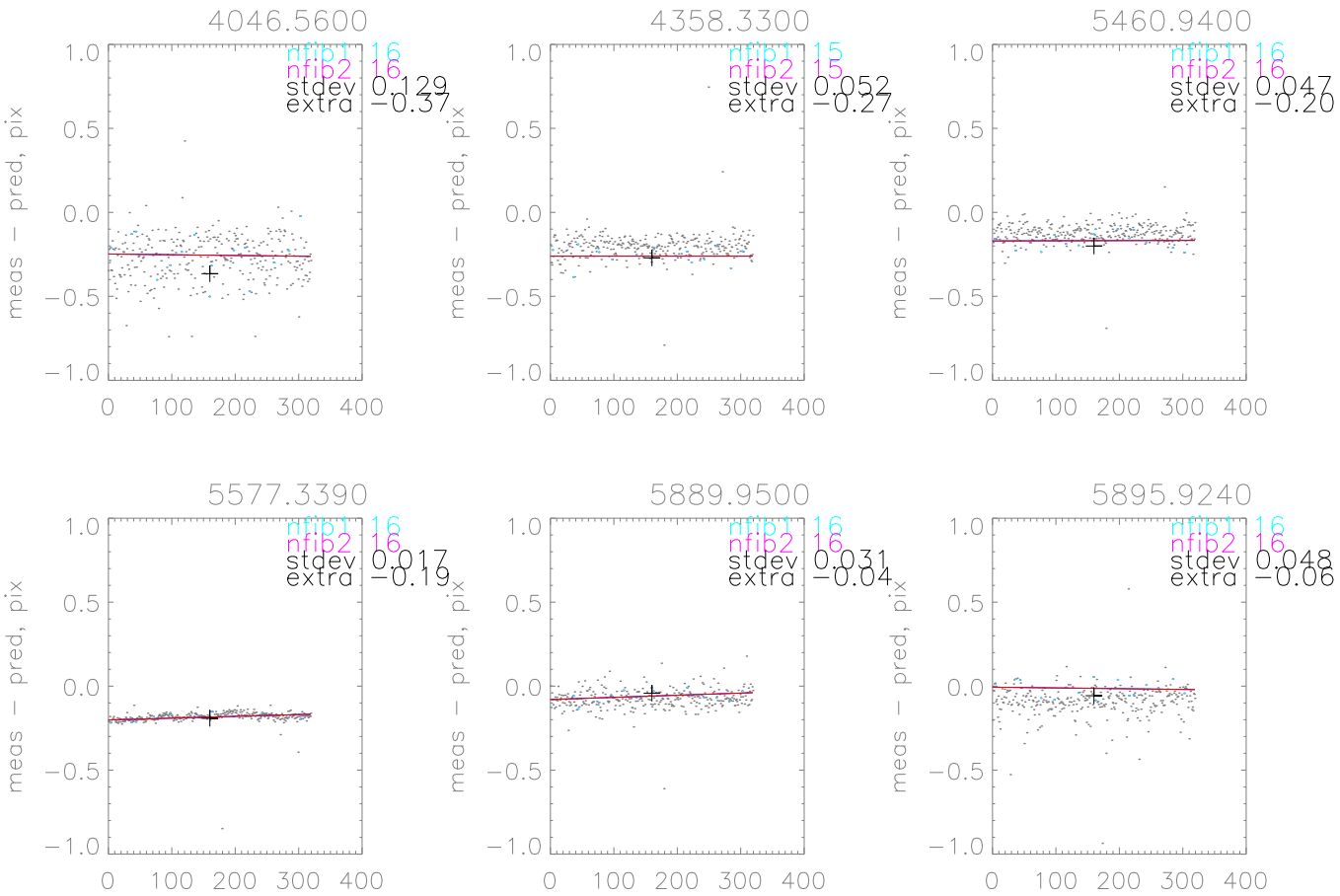

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

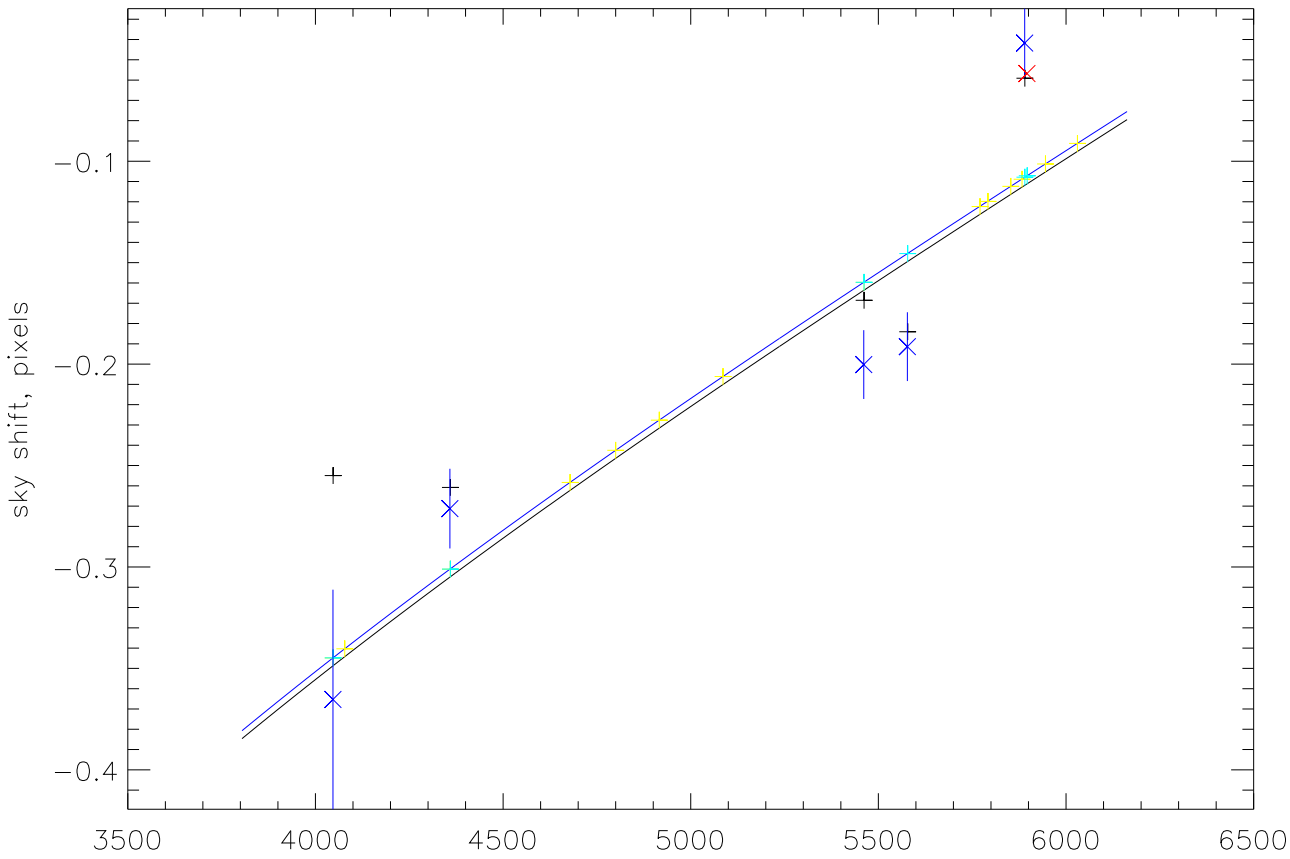

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

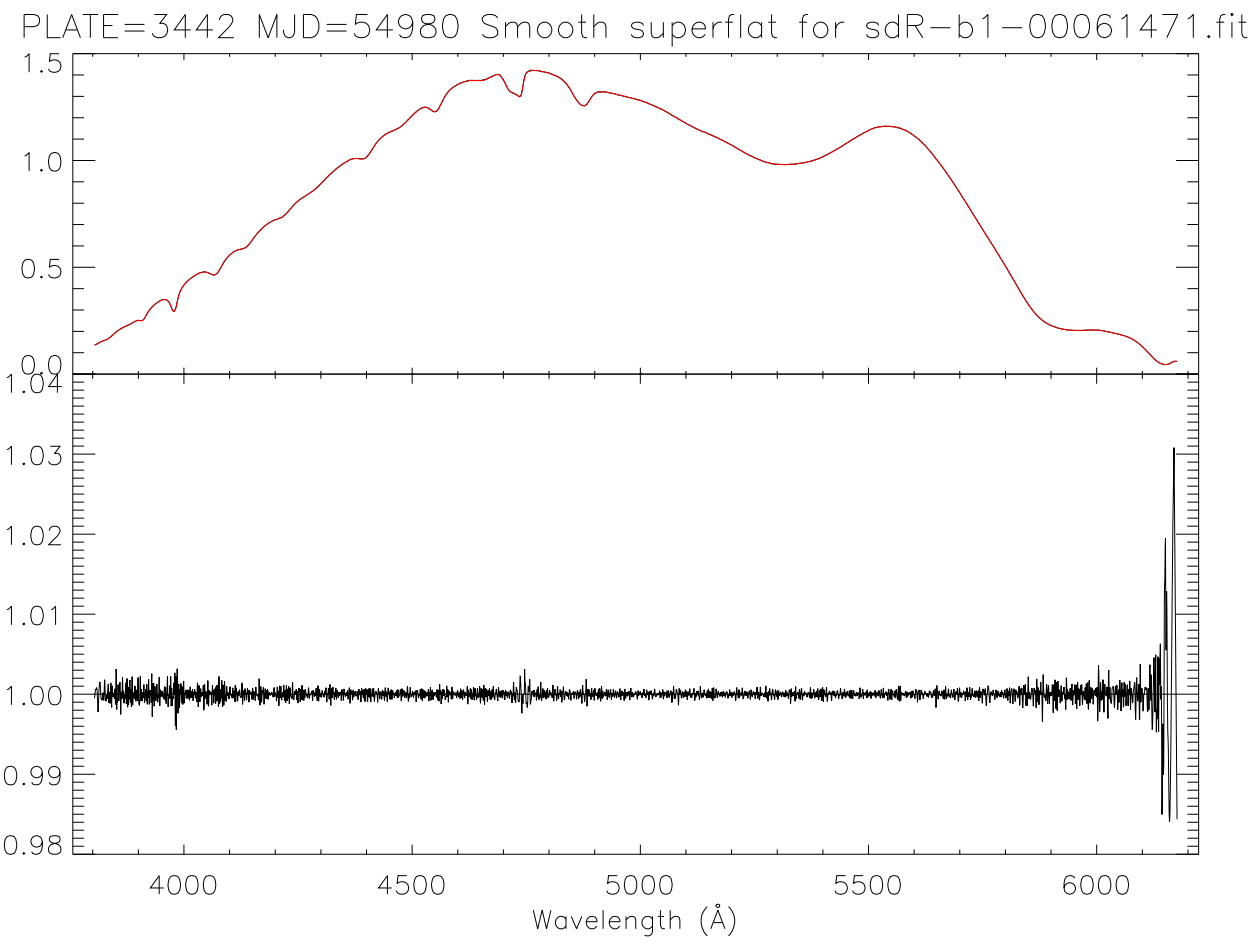

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

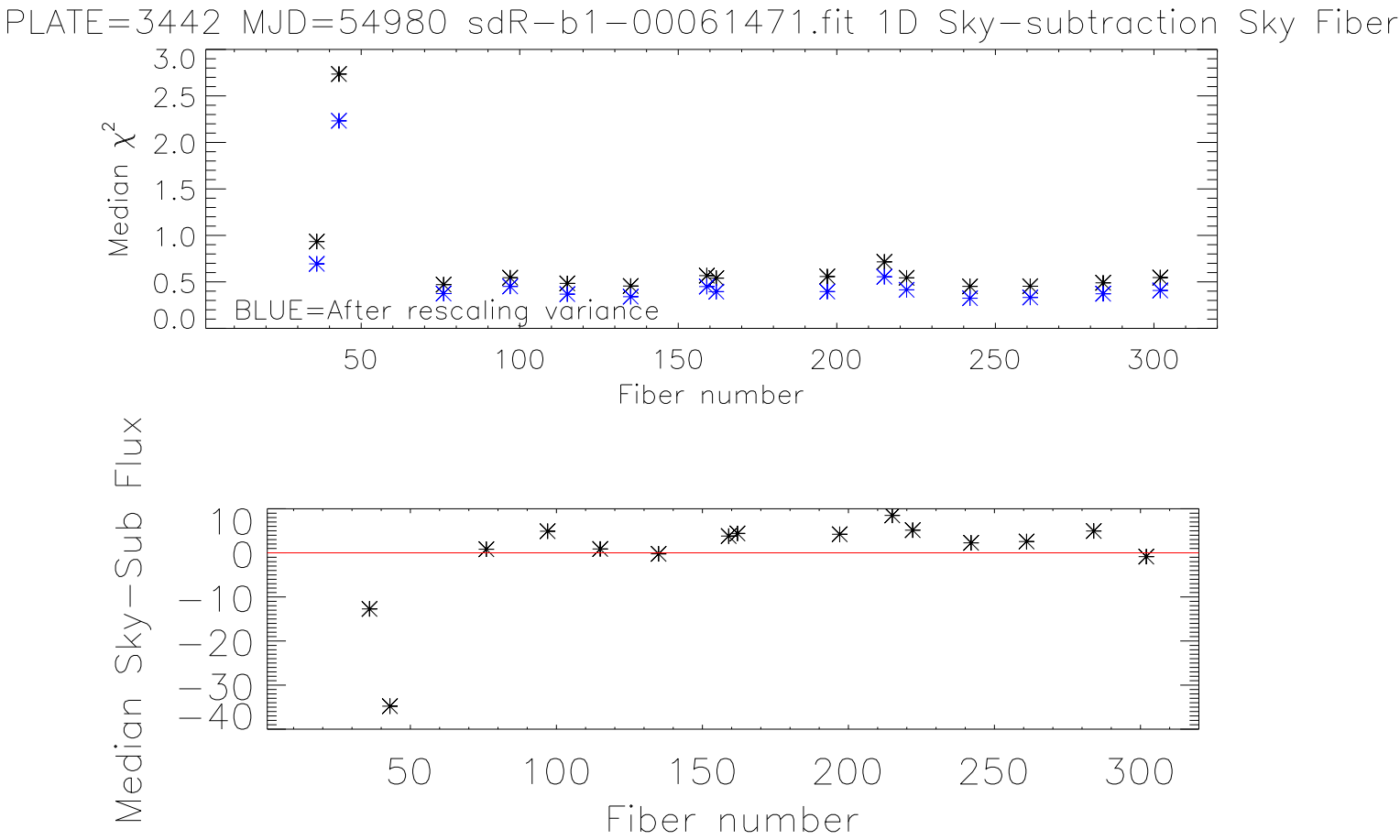

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

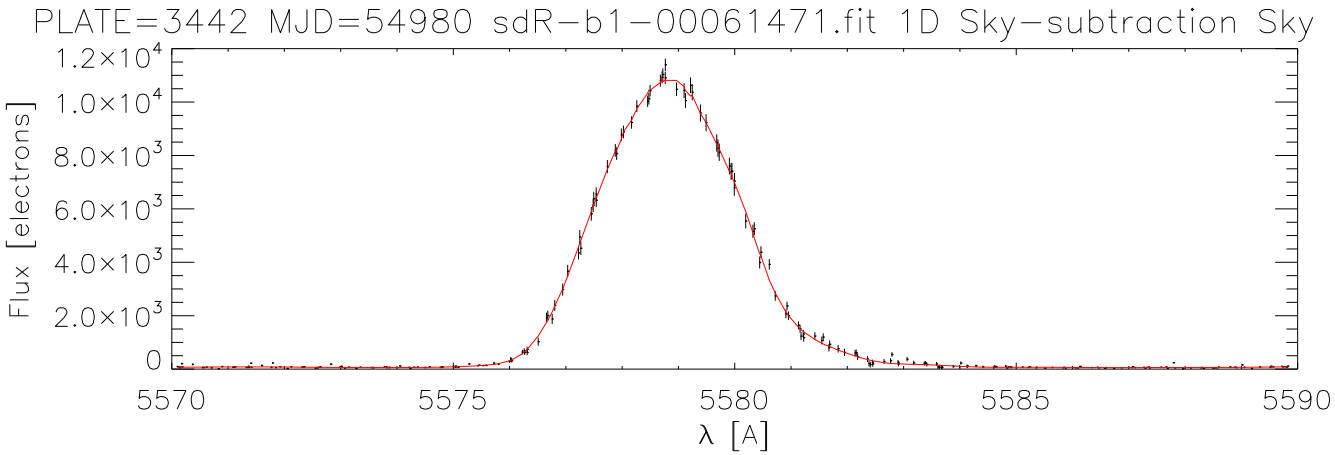

4046.5600
nfib1 16
nfib2 16
stdev 0.129
extra −0.37
4358.3300
nfib1 15
nfib2 15
stdev 0.052
extra −0.27
5460.9400
nfib1 16
nfib2 16
stdev 0.047
extra −0.20
5577.3390
nfib1 16
nfib2 16
stdev 0.017
extra −0.19
5889.9500
nfib1 16
nfib2 16
stdev 0.031
extra −0.04
5895.9240
nfib1 16
nfib2 16
stdev 0.048
extra −0.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

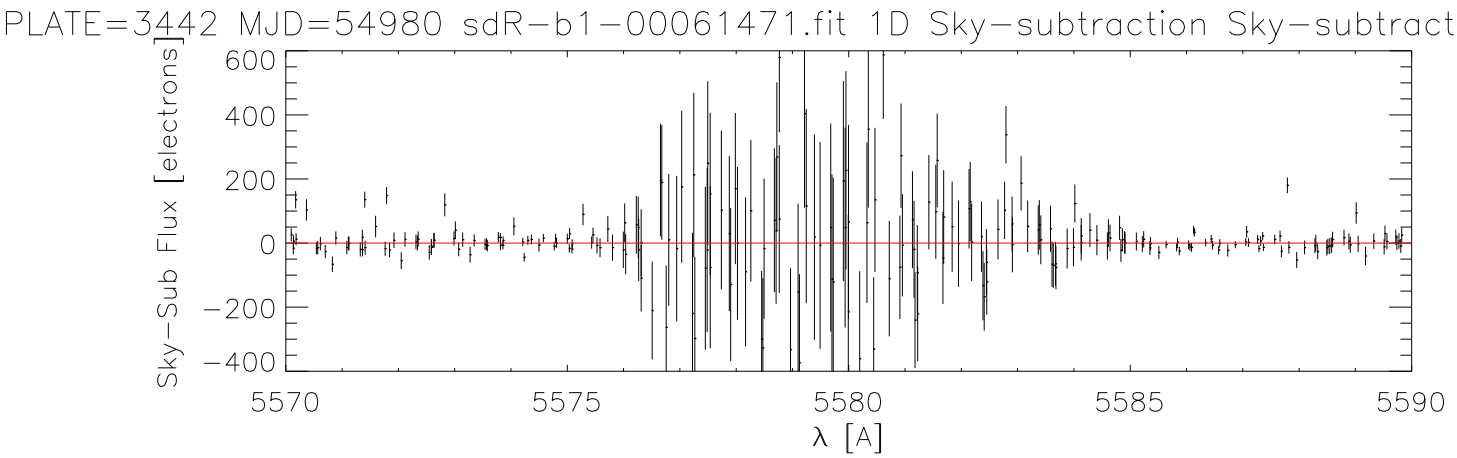

sky shift, pixels
−0.1
−0.2
−0.3
−0.4
3500
4000
4500
5000
5500
6000
6500

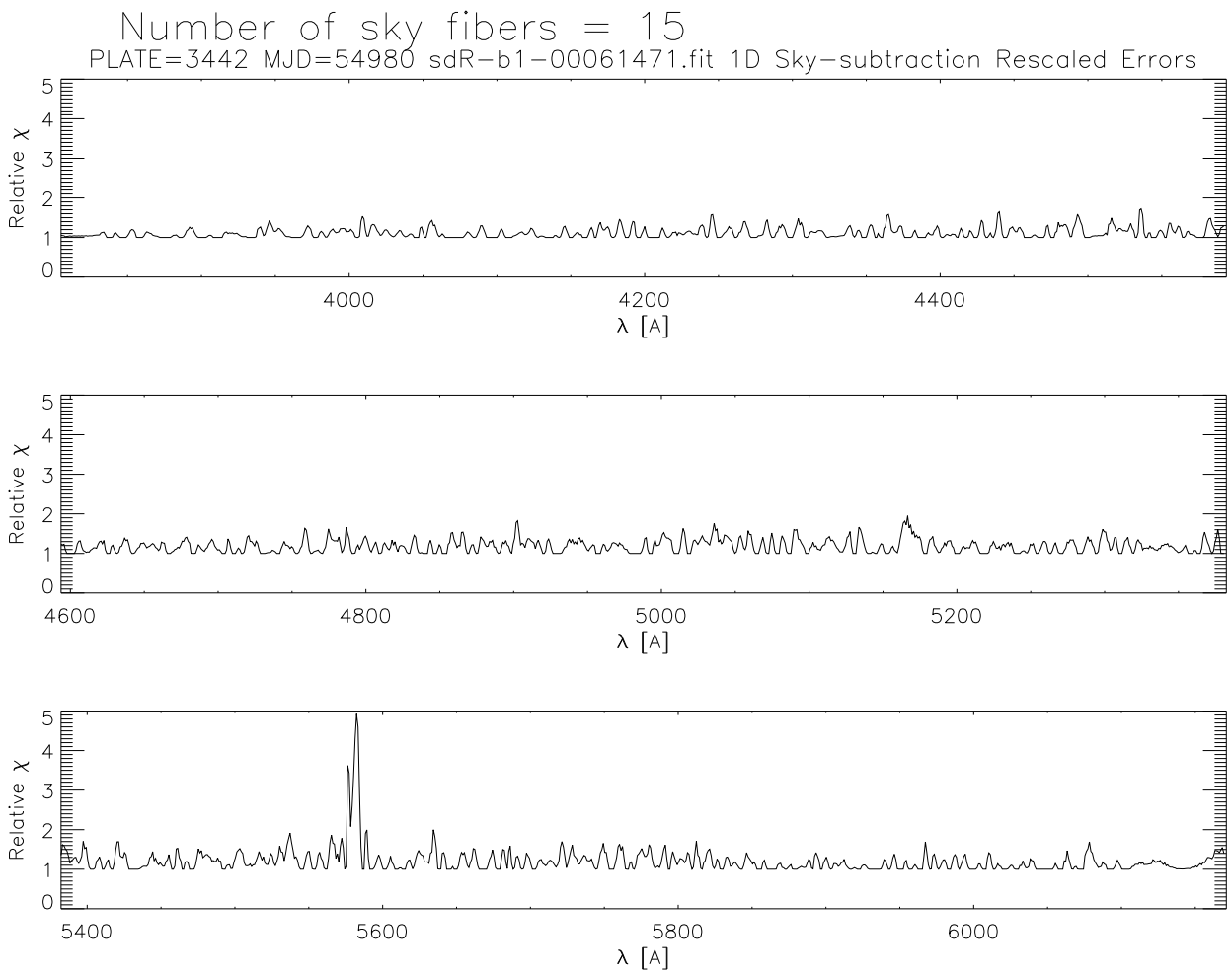
es= 0.0000

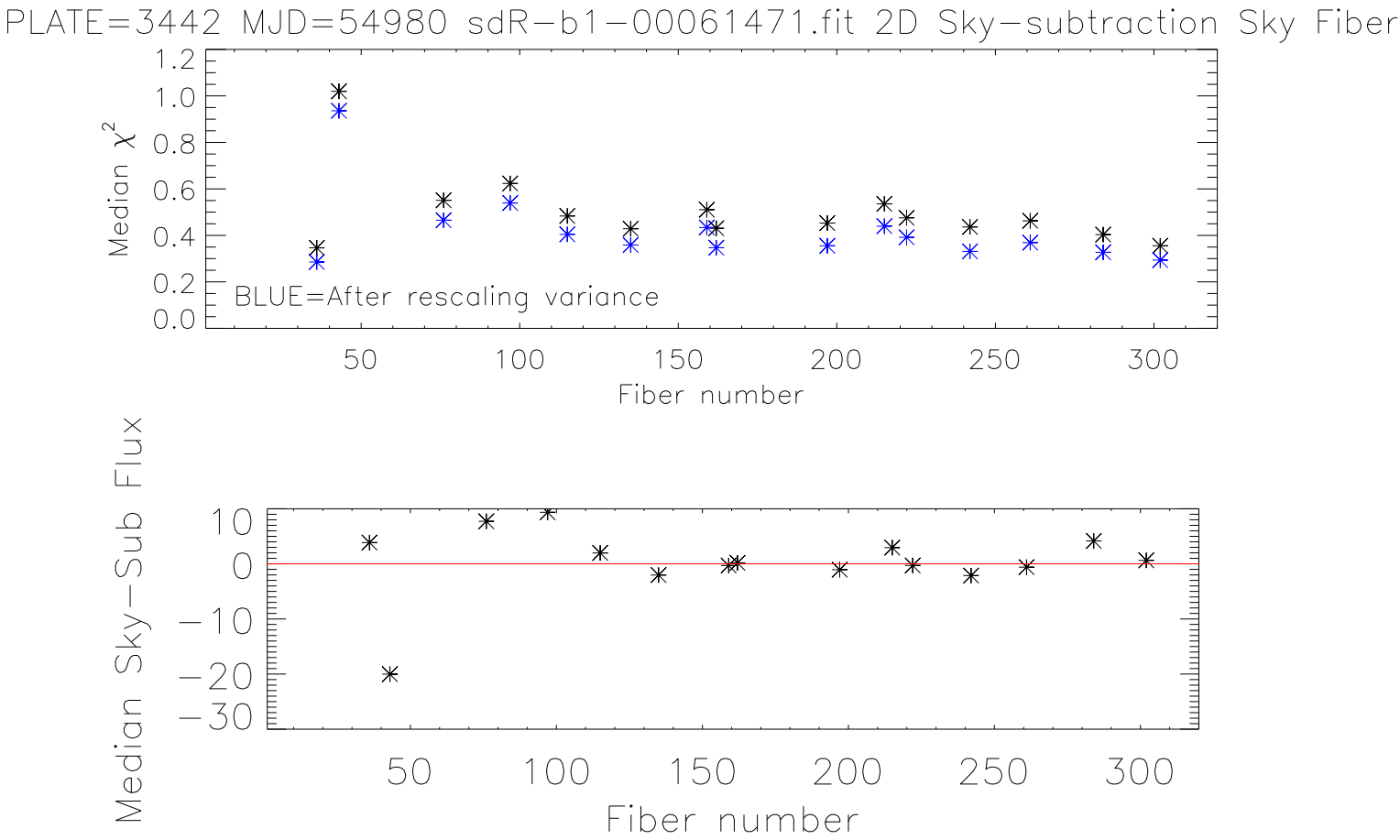

PLATE=3442 MJD=54980 Smooth superflat for sdR-b1-00061471.fit
1.5
1.0
0.5
0.0
1.04
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

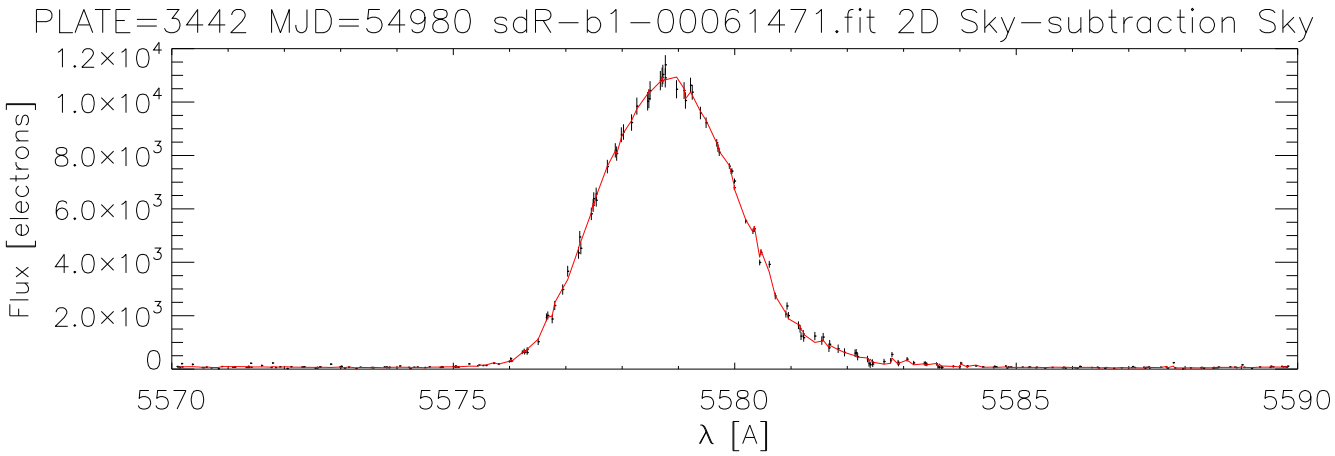

PLATE=3442 MJD=54980 sdR-b1-00061471.fit 1D Sky-subtraction Sky Fiber
Median χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
0
-10
-20
-30
-40
50
100
150
200
250
300
Fiber number

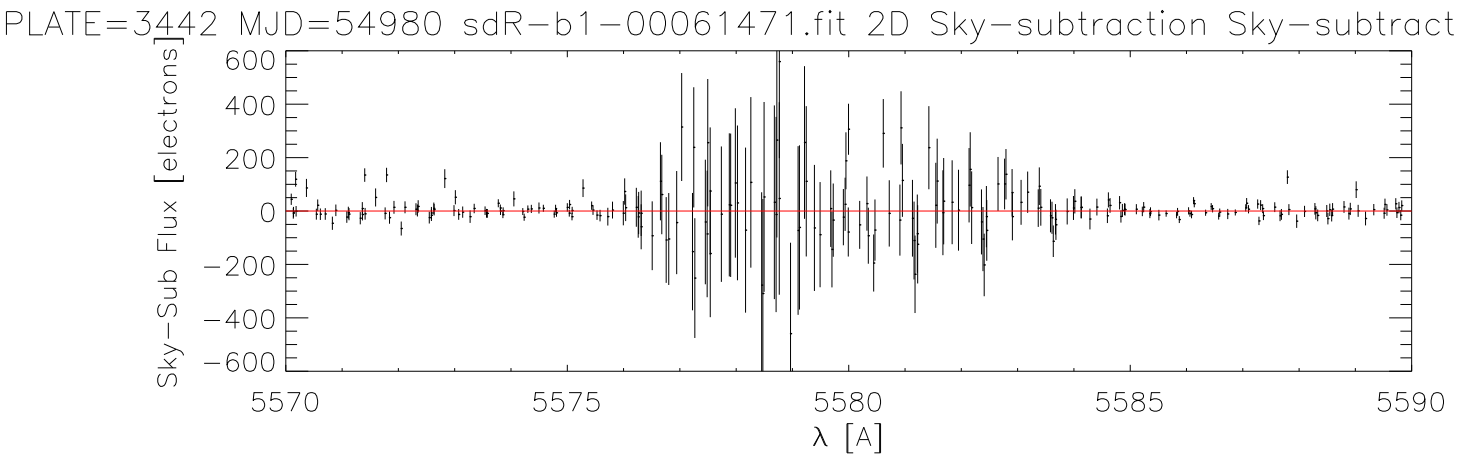

PLATE=3442 MJD=54980 sdR-b1-00061471.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

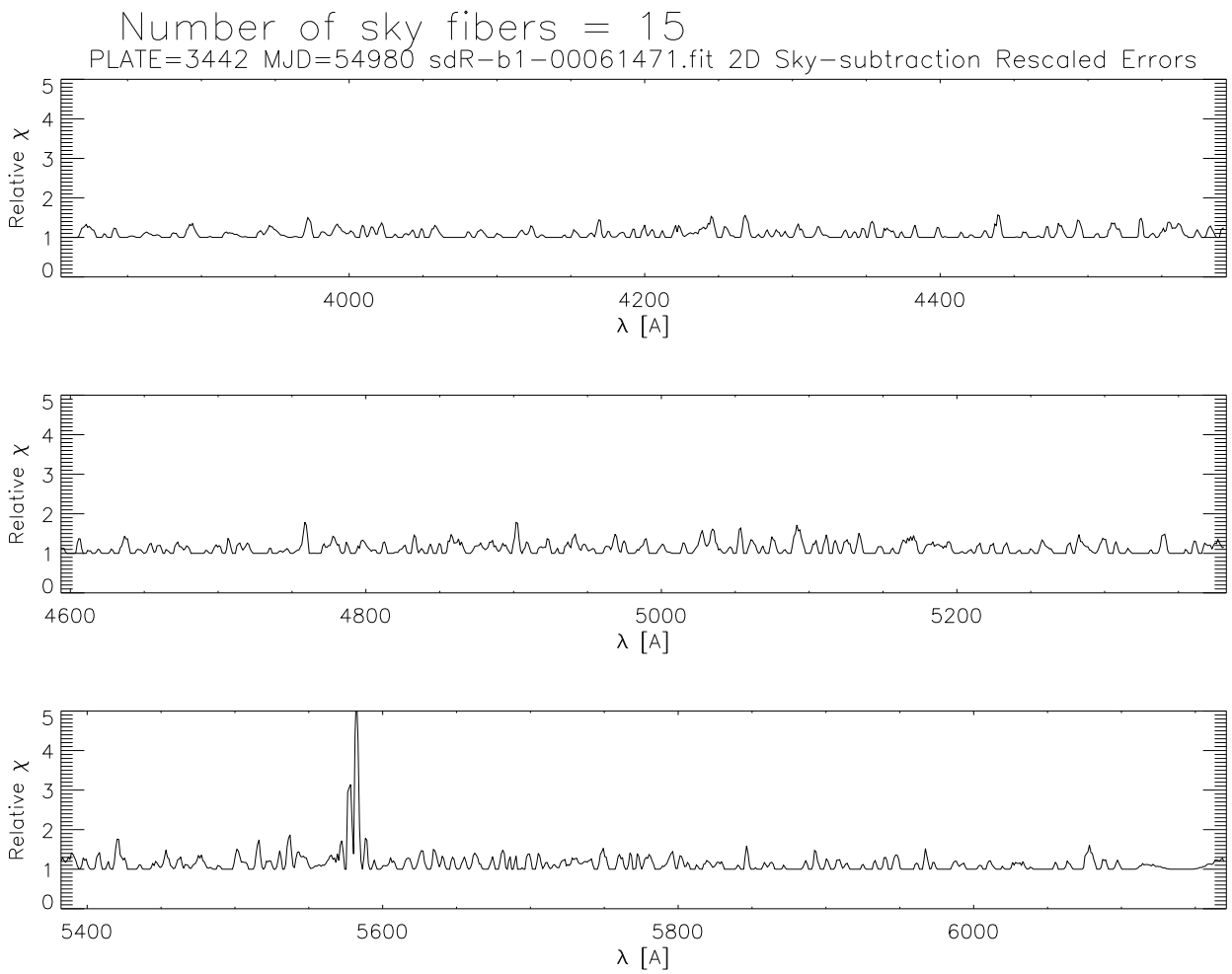

PLATE=3442 MJD=54980 sdR-b1-00061471.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

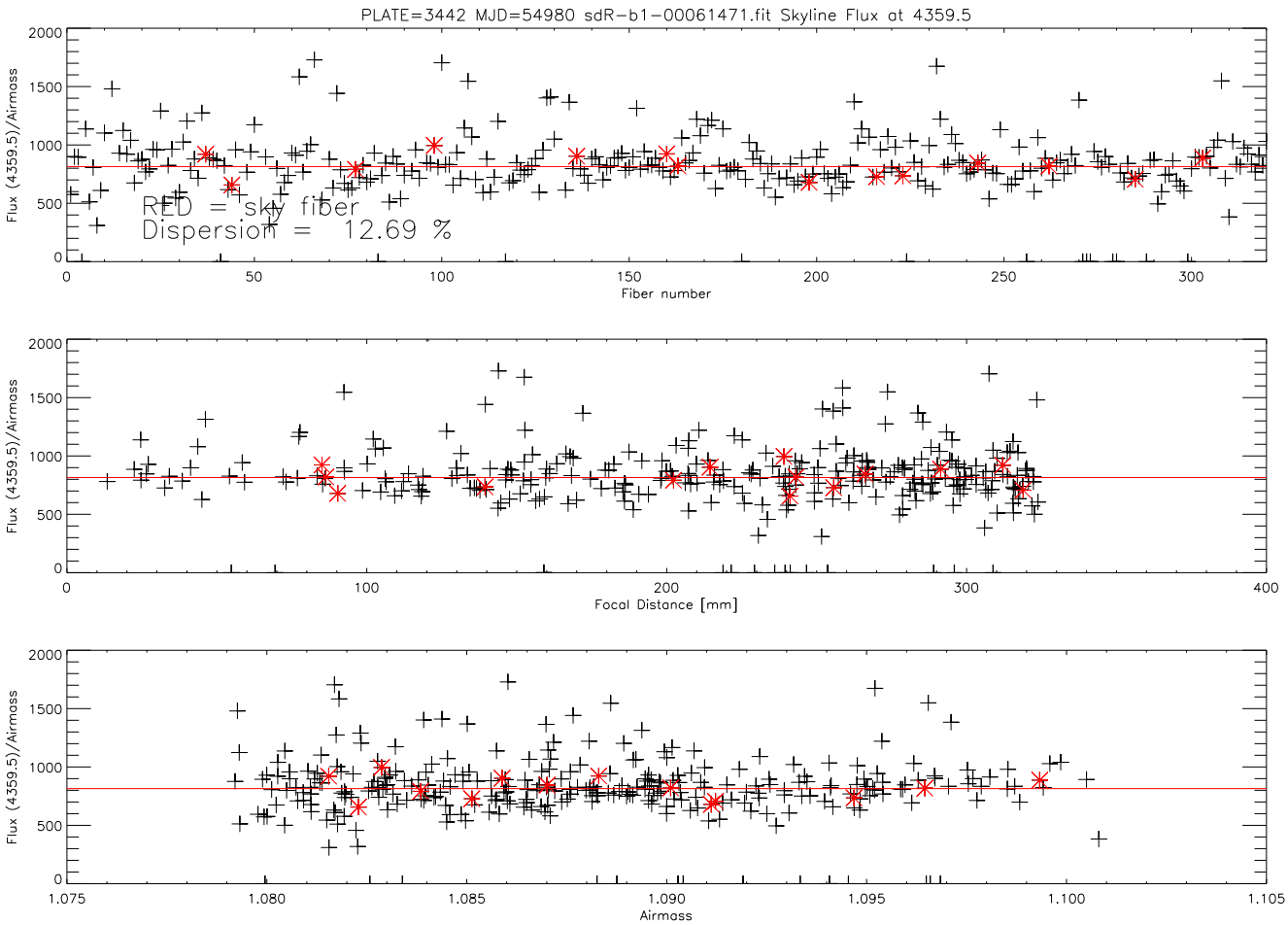

Number of sky fibers = 15
PLATE=3442 MJD=54980 sdR-b1-00061471.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

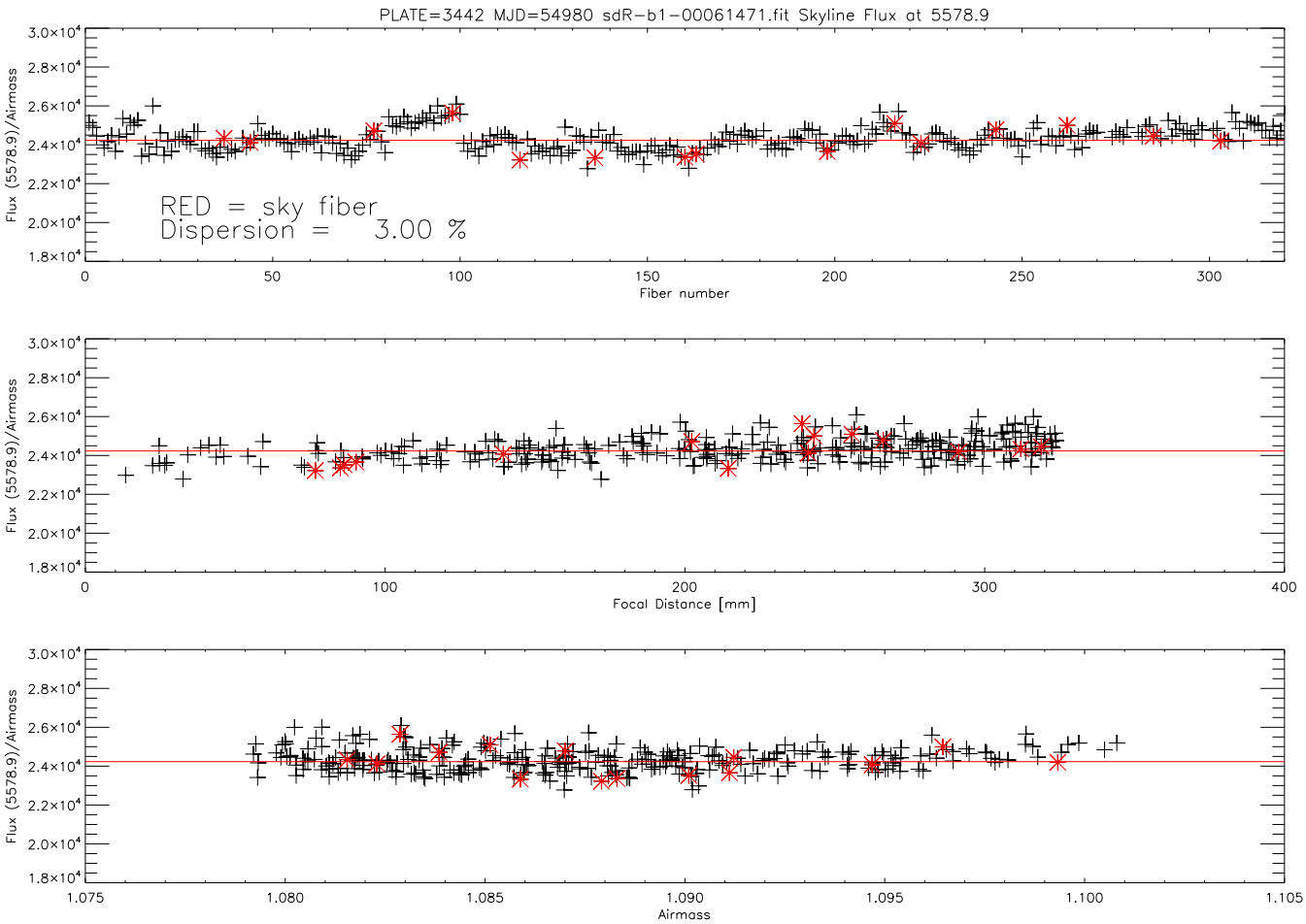

PLATE=3442 MJD=54980 sdR-b1-00061471.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

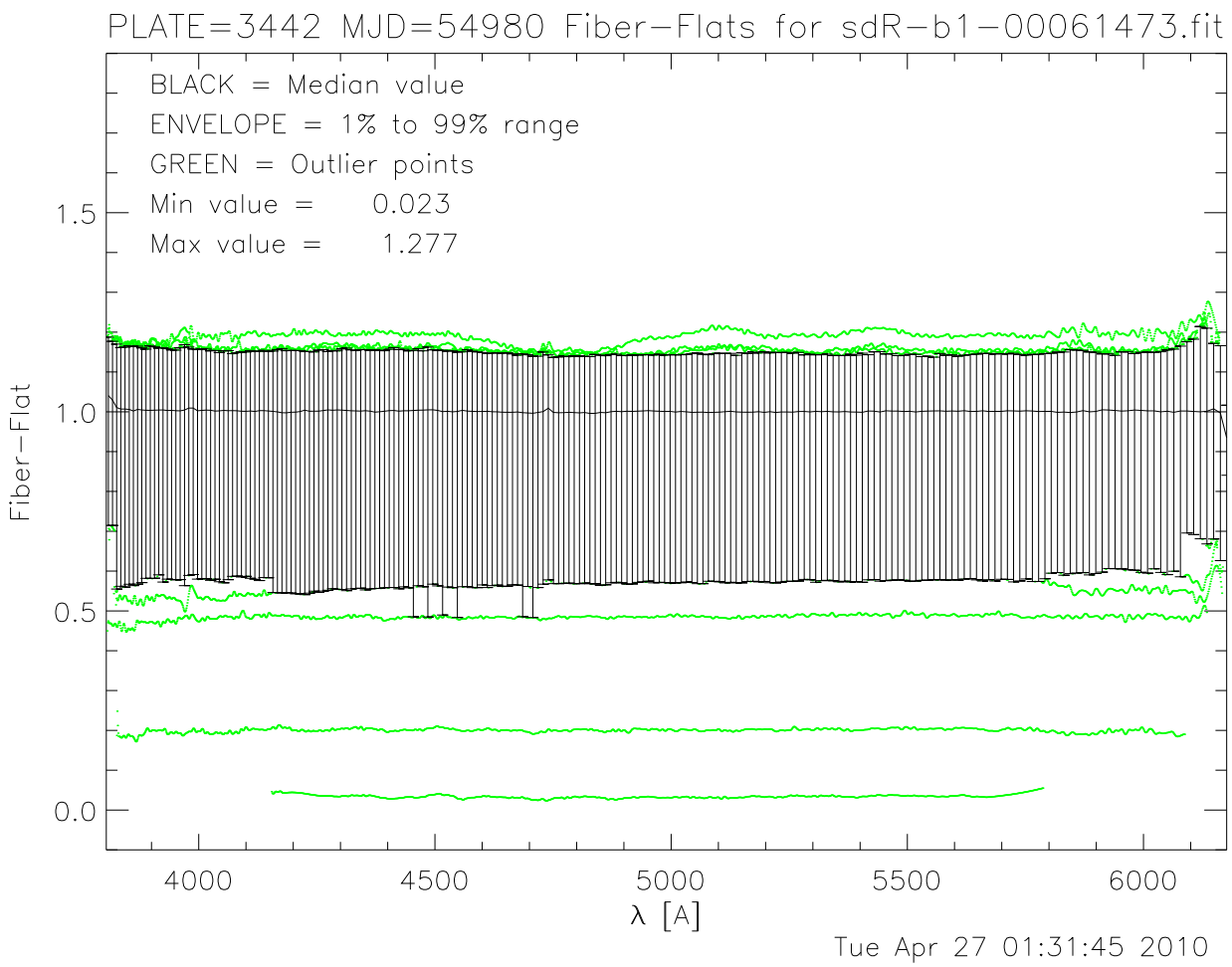

PLATE=3442 MJD=54980 sdR-b1-00061471.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

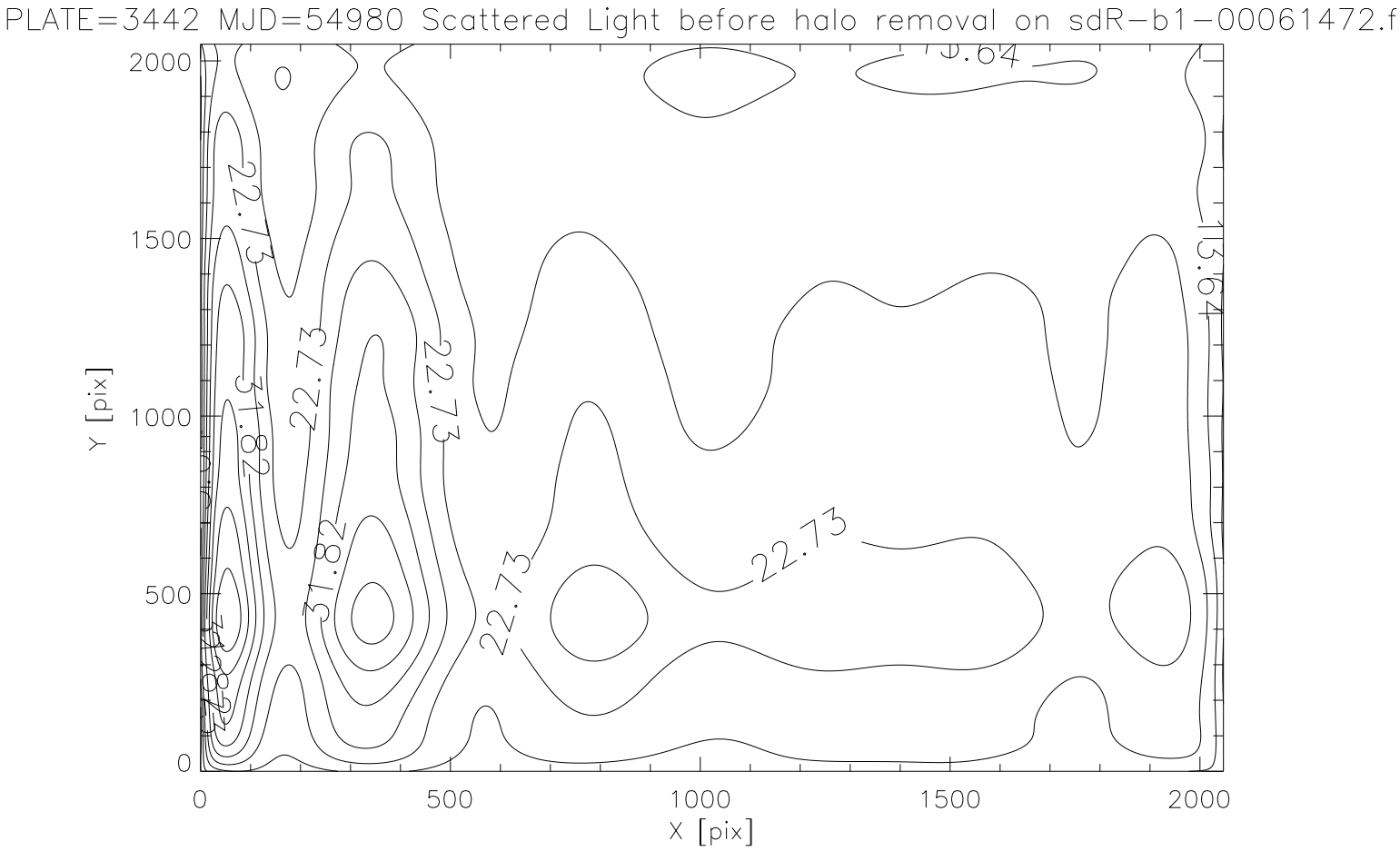

PLATE=3442 MJD=54980 sdR-b1-00061471.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
−600
5570
5575
5580
5585
5590
λ [A]

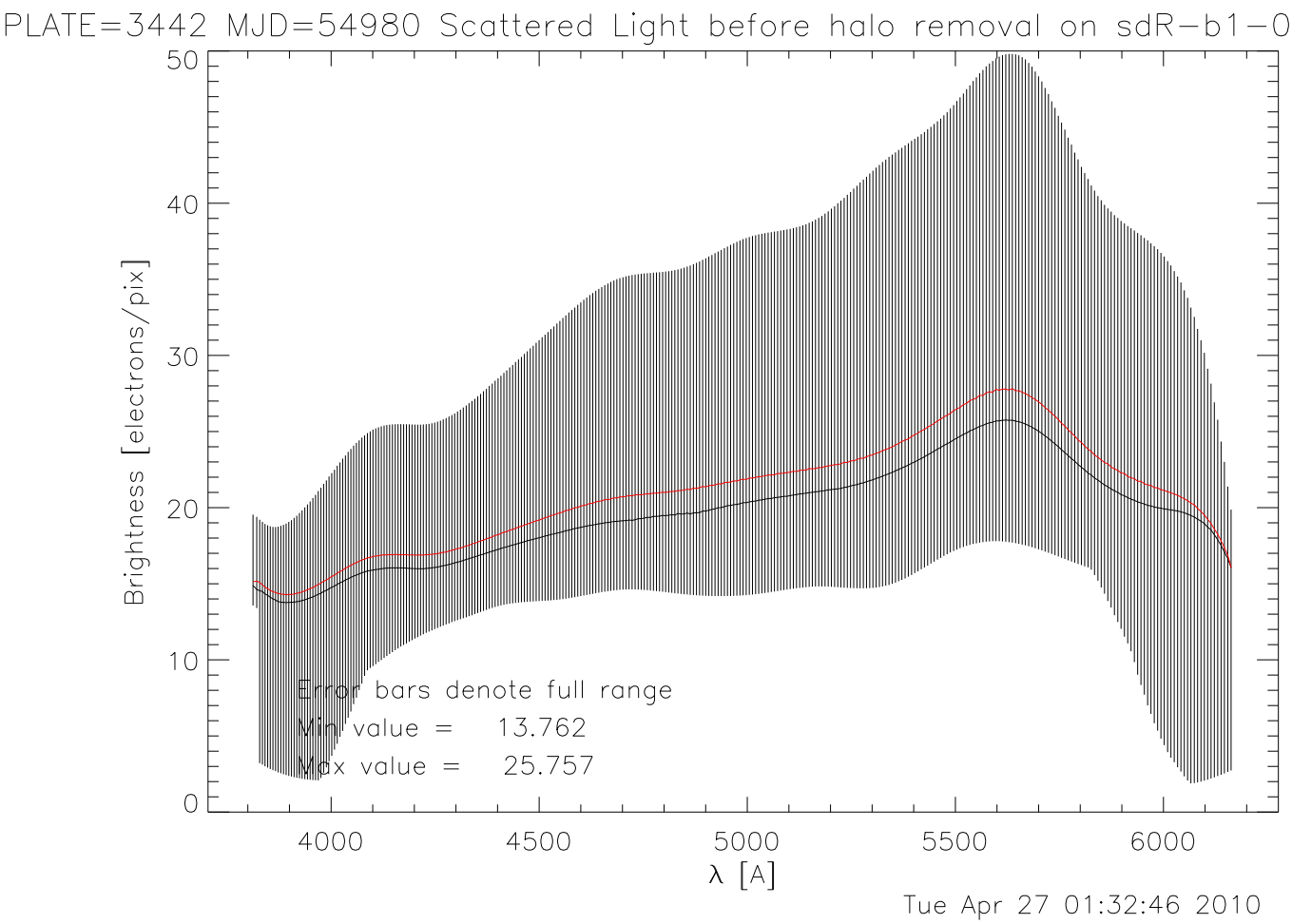

Number of sky fibers = 15
PLATE=3442 MJD=54980 sdR-b1-00061471.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

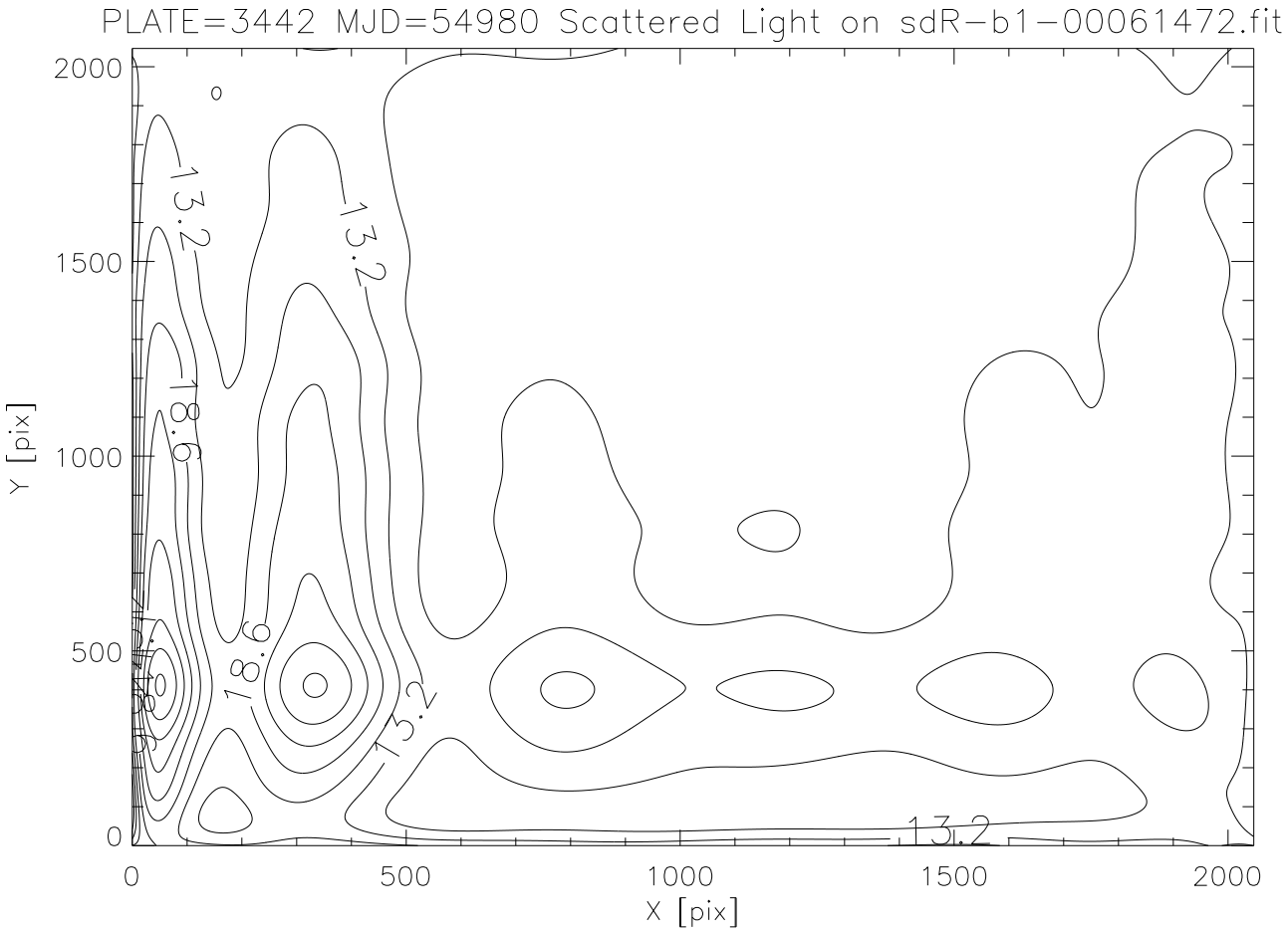

PLATE=3442 MJD=54980 sdR-b1-00061471.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.69 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

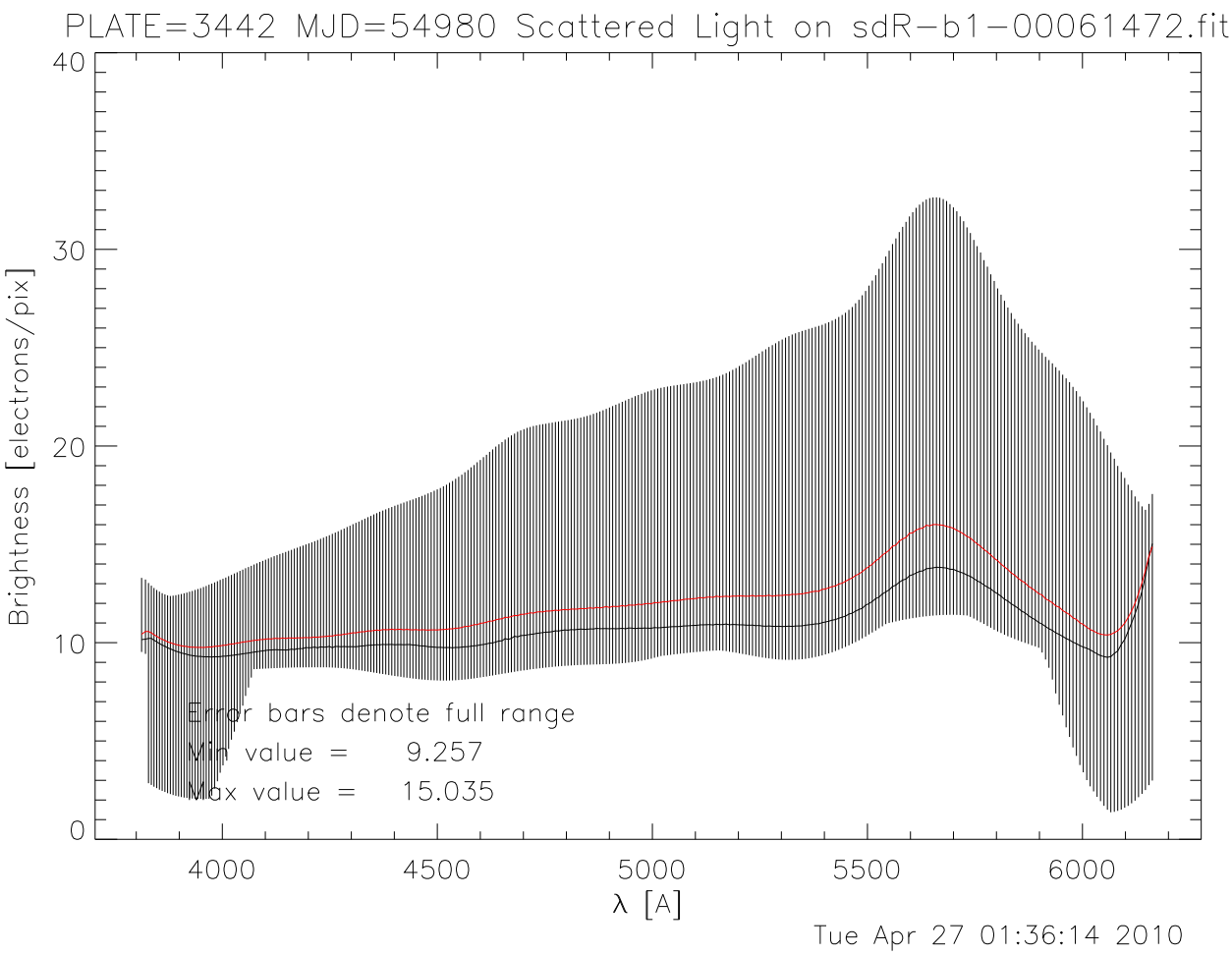

PLATE=3442 MJD=54980 sdR-b1-00061471.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 3.00 %
Fiber number
Focal Distance [mm]
Airmass

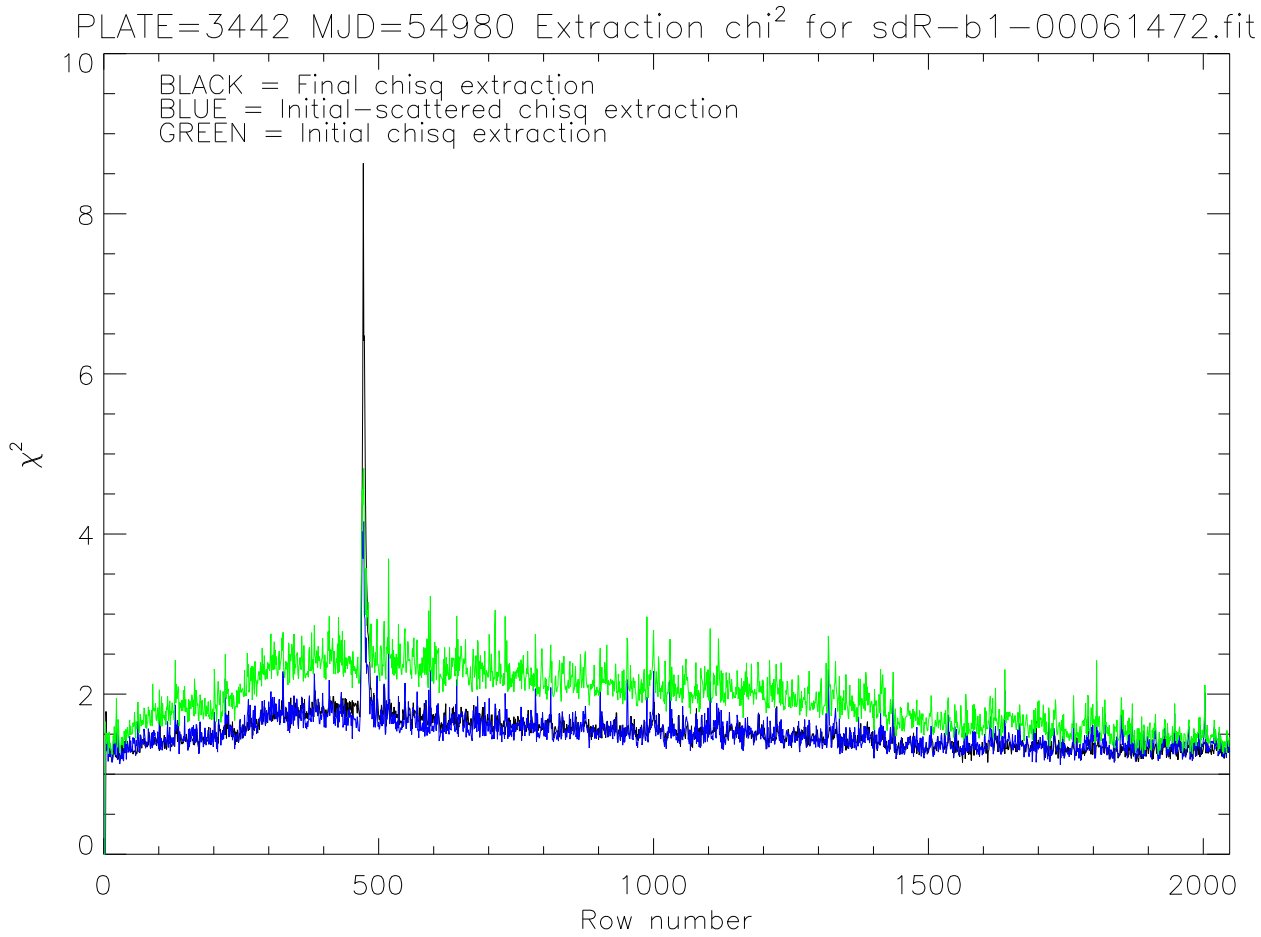

PLATE=3442 MJD=54980 Fiber−Flats for sdR−b1−00061473.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.023
Max value = 1.277
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Apr 27 01:31:45 2010

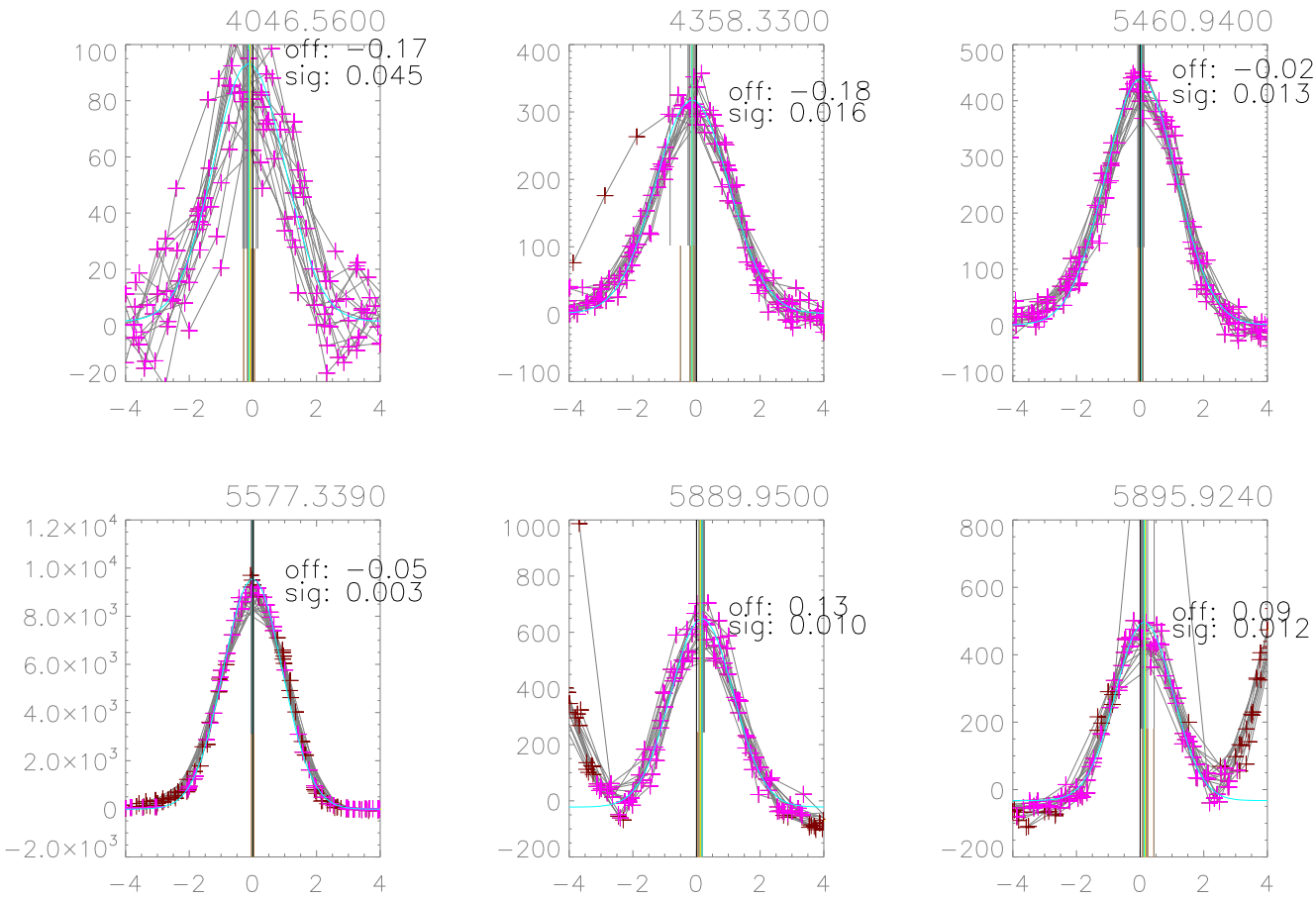

PLATE=3442 MJD=54980 Scattered Light before halo removal on sdR-b1-00061472.f
Y [pix]
X [pix]
0
500
1000
1500
2000
22.73
31.82
13.64

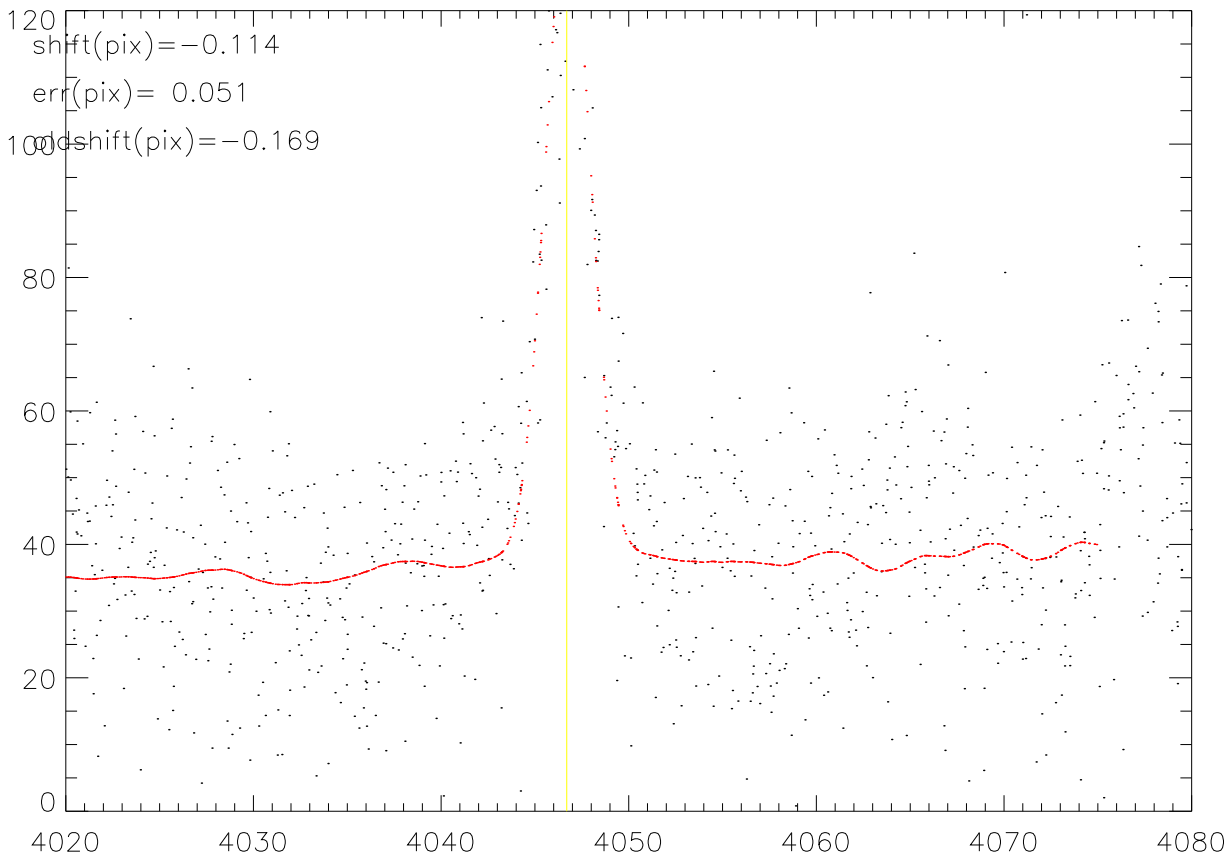

PLATE=3442 MJD=54980 Scattered Light before halo removal on sdR-b1-00061472.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 13.762
Max value = 25.757
Tue Apr 27 01:32:46 2010

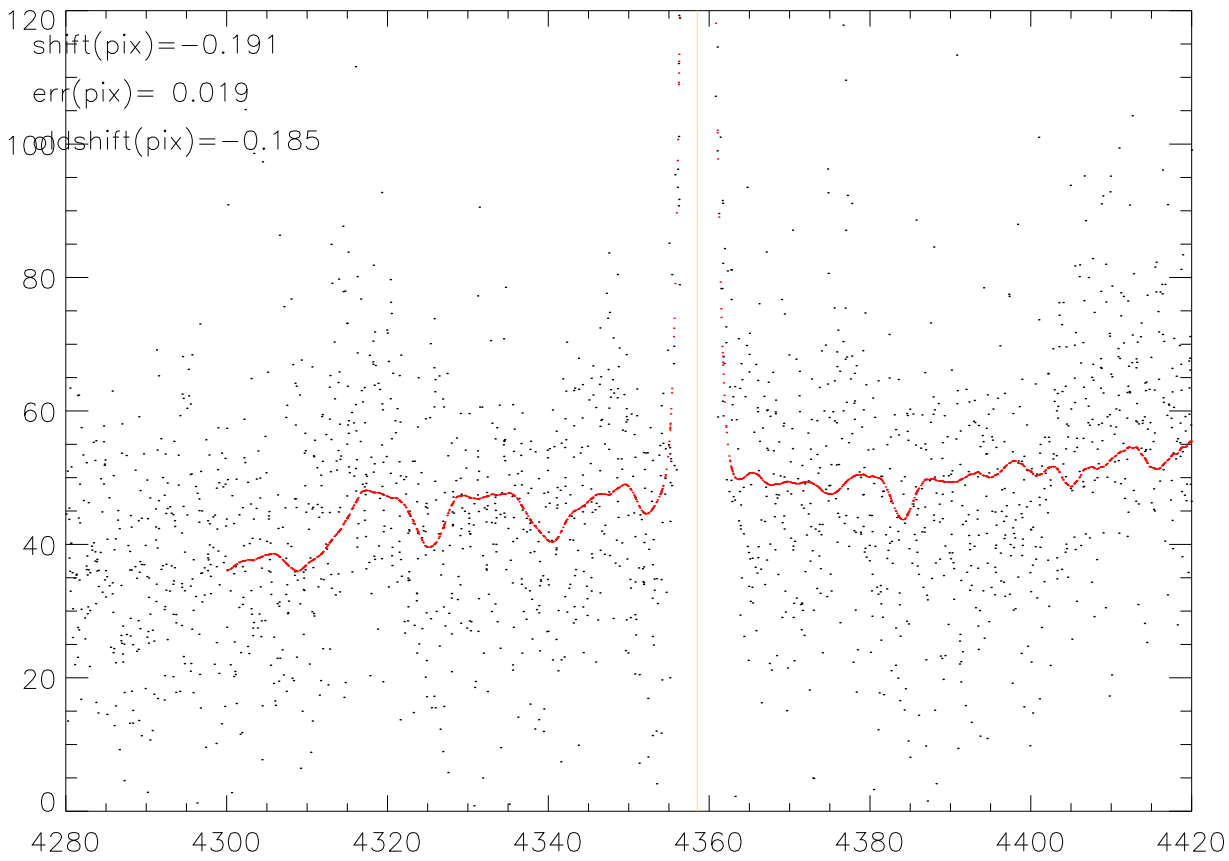

PLATE=3442 MJD=54980 Scattered Light on sdR-b1-00061472.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
13.2
18.6
13.2
18.6
13.2
13.2

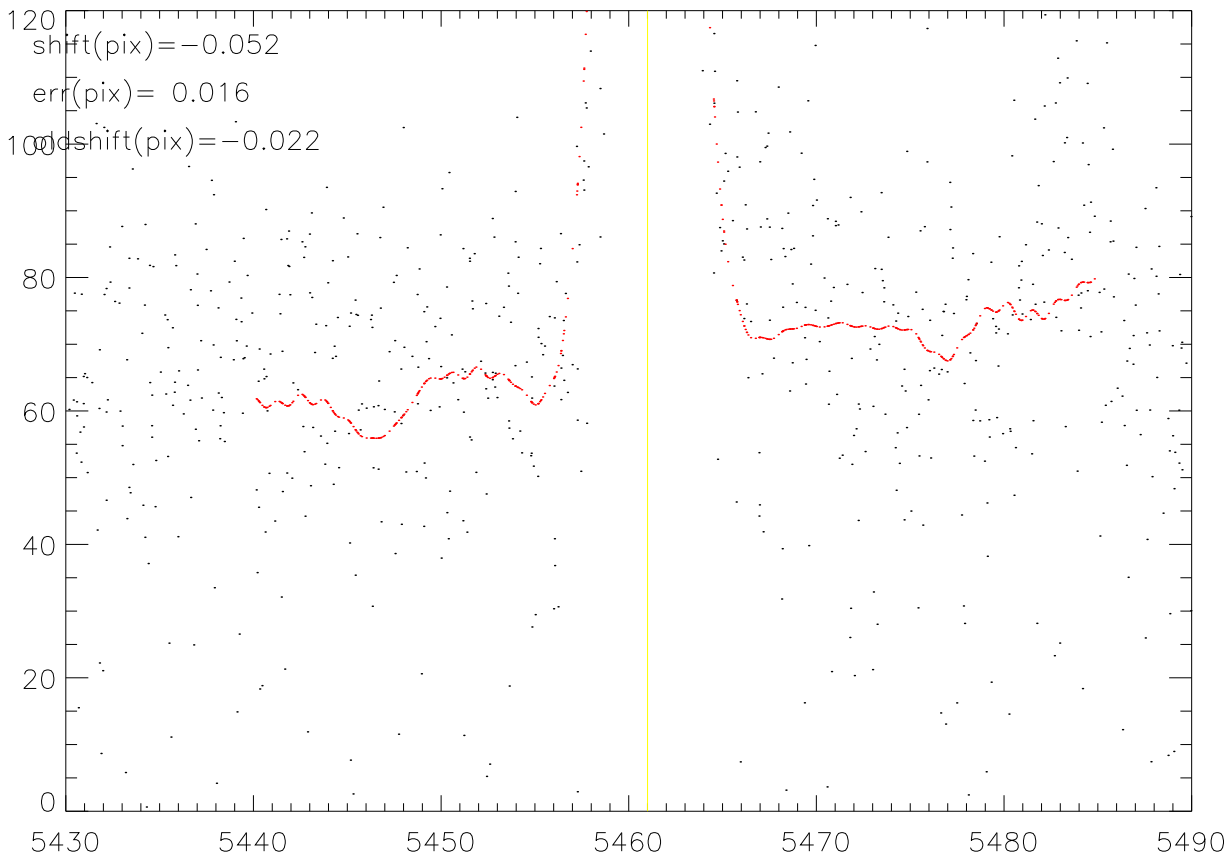

PLATE=3442 MJD=54980 Scattered Light on sdR-b1-00061472.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 9.257
Max value = 15.035
Tue Apr 27 01:36:14 2010

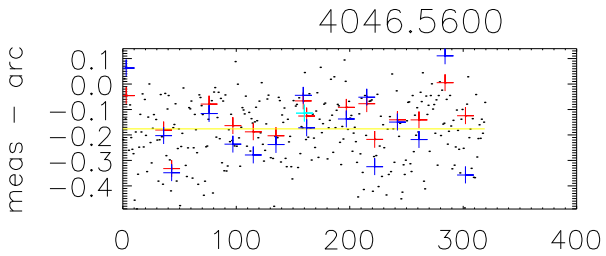

PLATE=3442 MJD=54980 Extraction chi^2 for sdR-b1-00061472.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

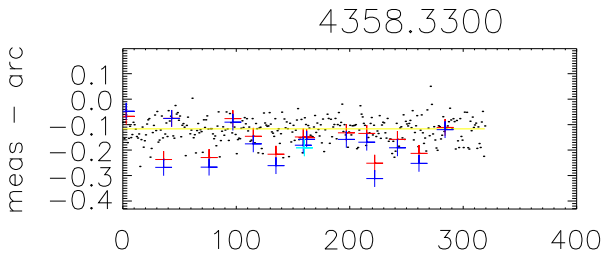

4046.5600
off: −0.17
sig: 0.045
4358.3300
off: −0.18
sig: 0.016
5460.9400
off: −0.02
sig: 0.013
5577.3390
off: −0.05
sig: 0.003
5889.9500
off: 0.13
sig: 0.010
5895.9240
off: 0.09
sig: 0.012

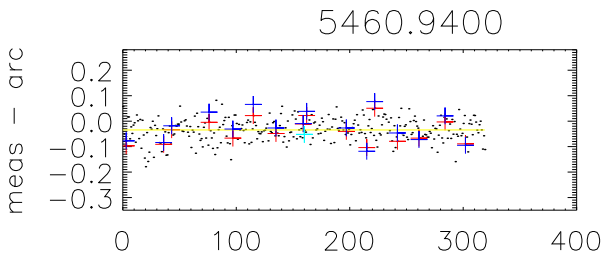

shift(pix)=−0.114
err(pix)= 0.051
oldshift(pix)=−0.169
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

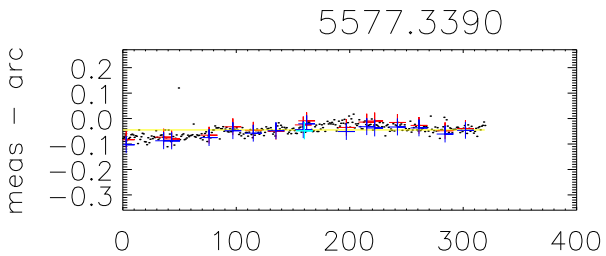

shift(pix)=−0.191
err(pix)= 0.019
oldshift(pix)=−0.185
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

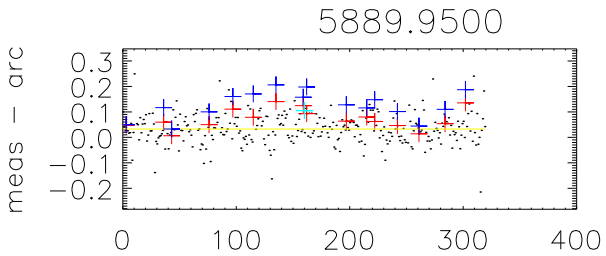

shift(pix)=−0.052
err(pix)= 0.016
oldshift(pix)=−0.022
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

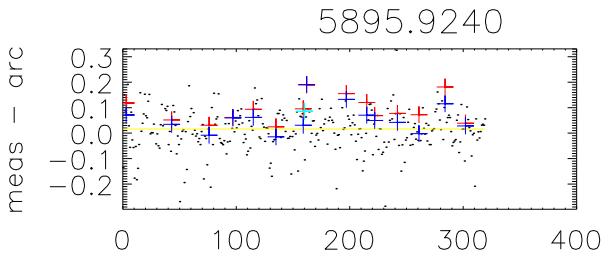

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

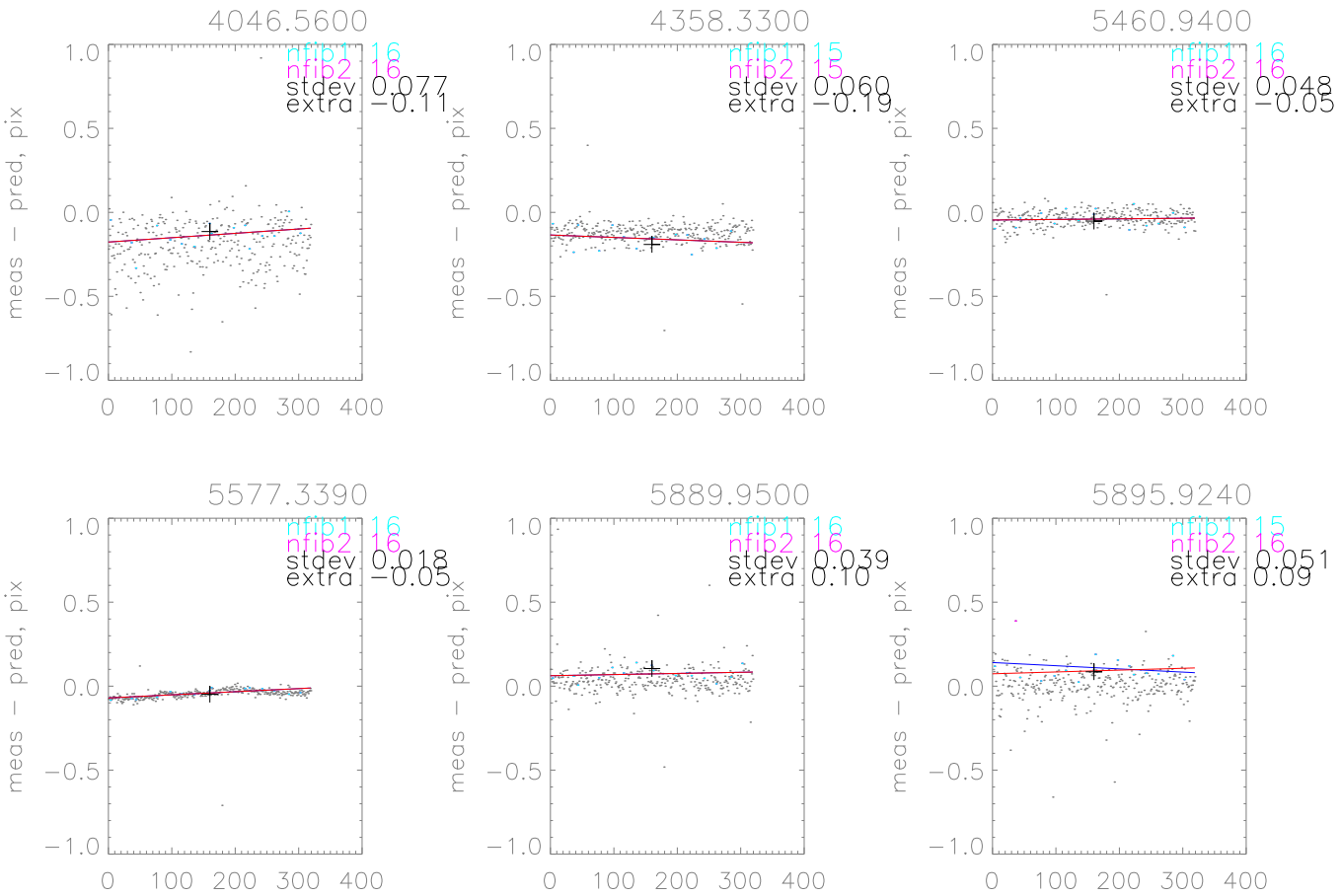

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

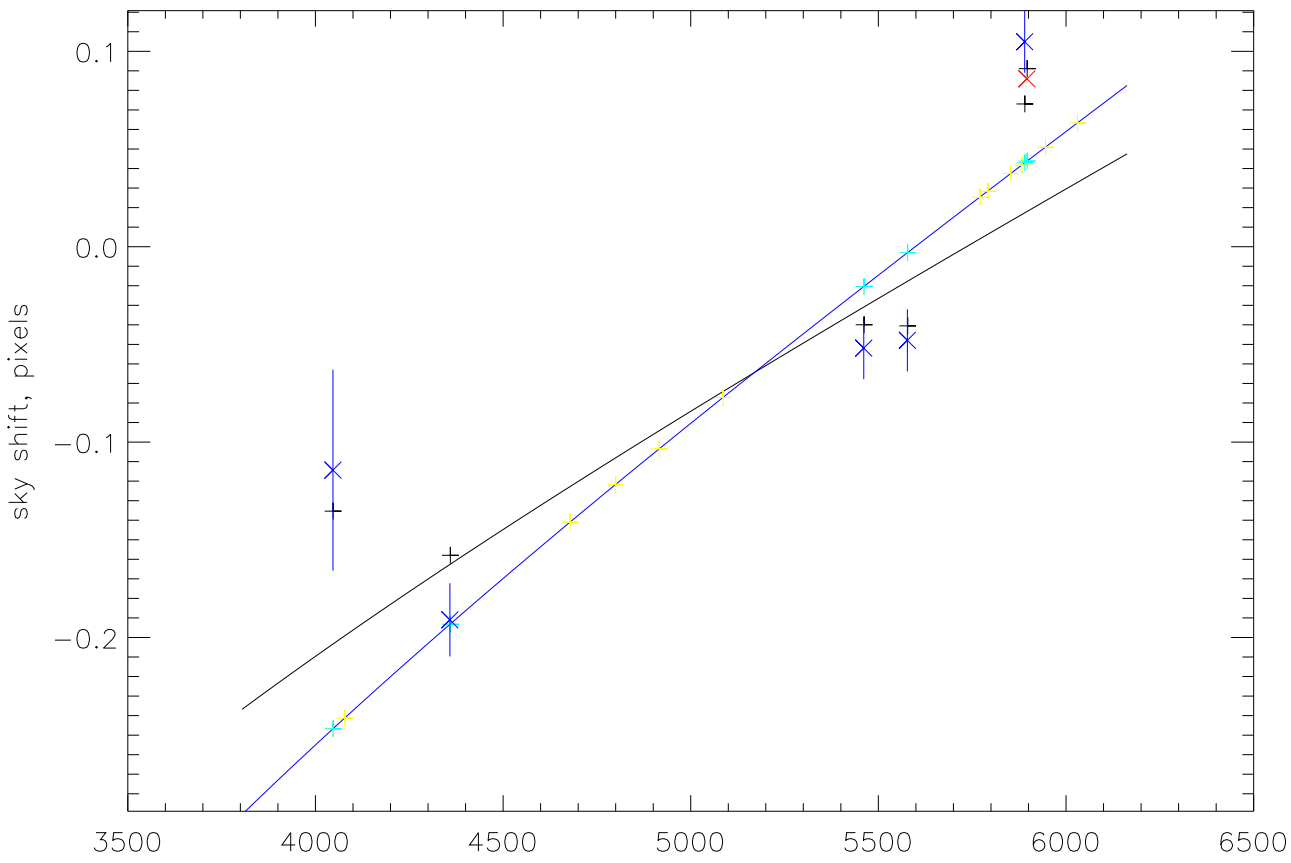

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

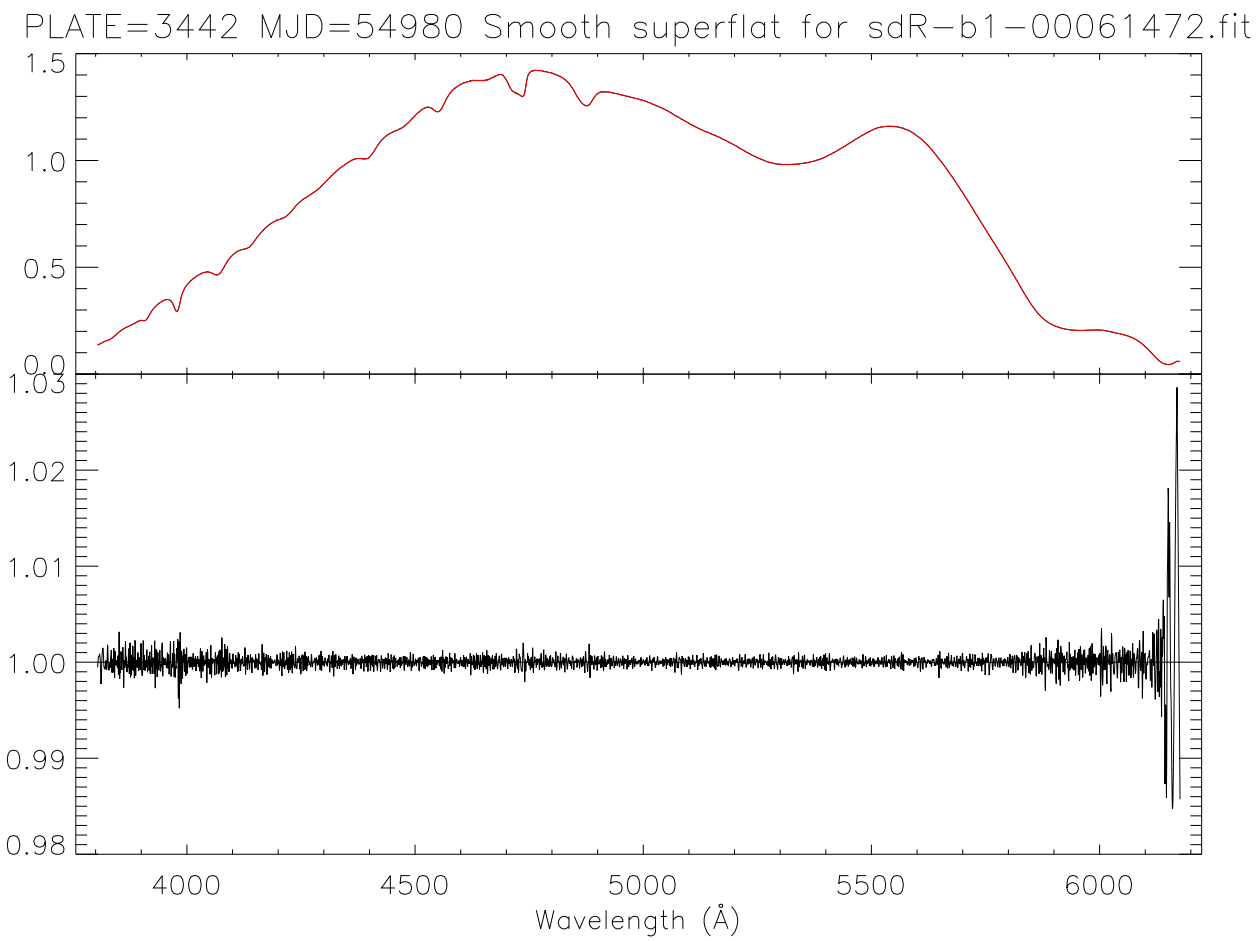

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

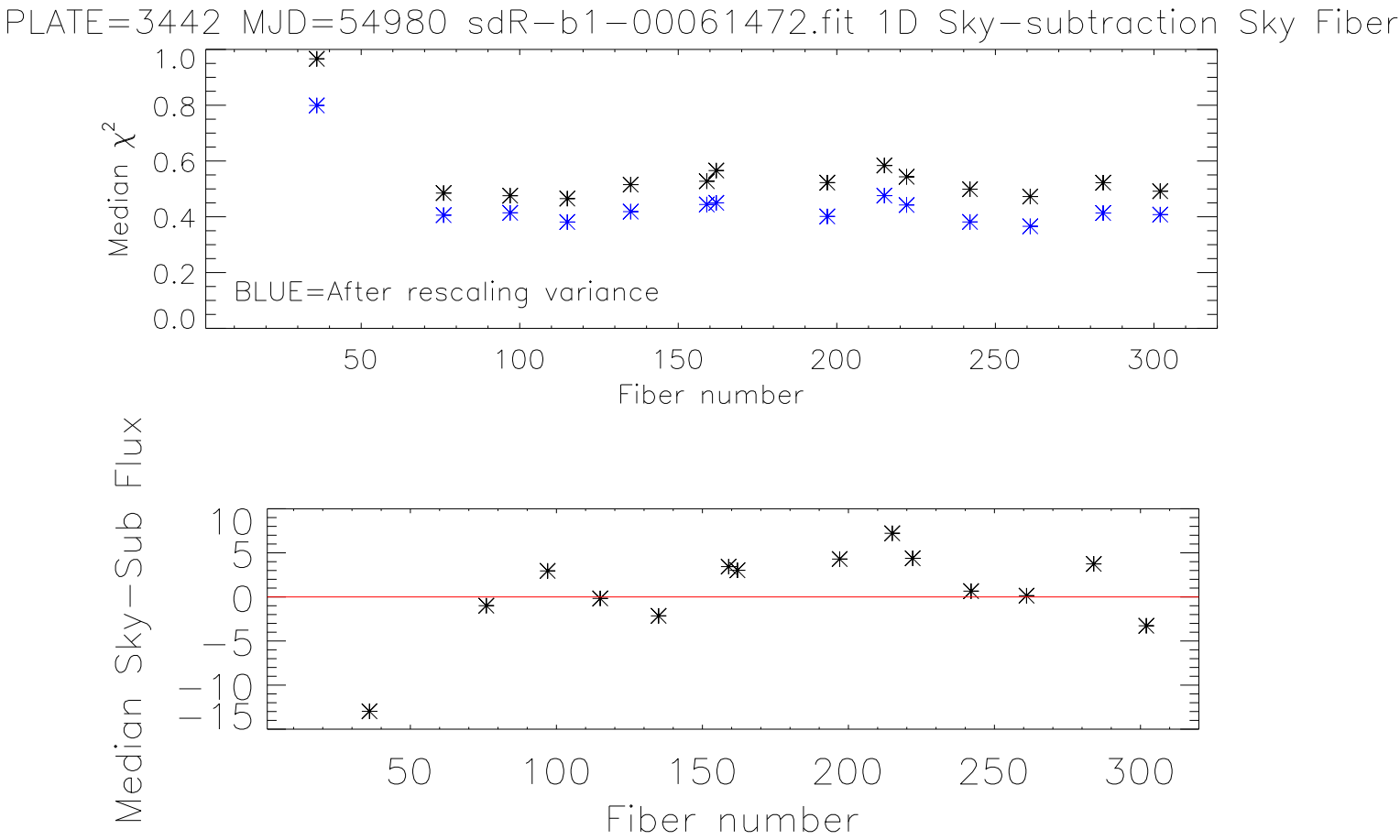

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

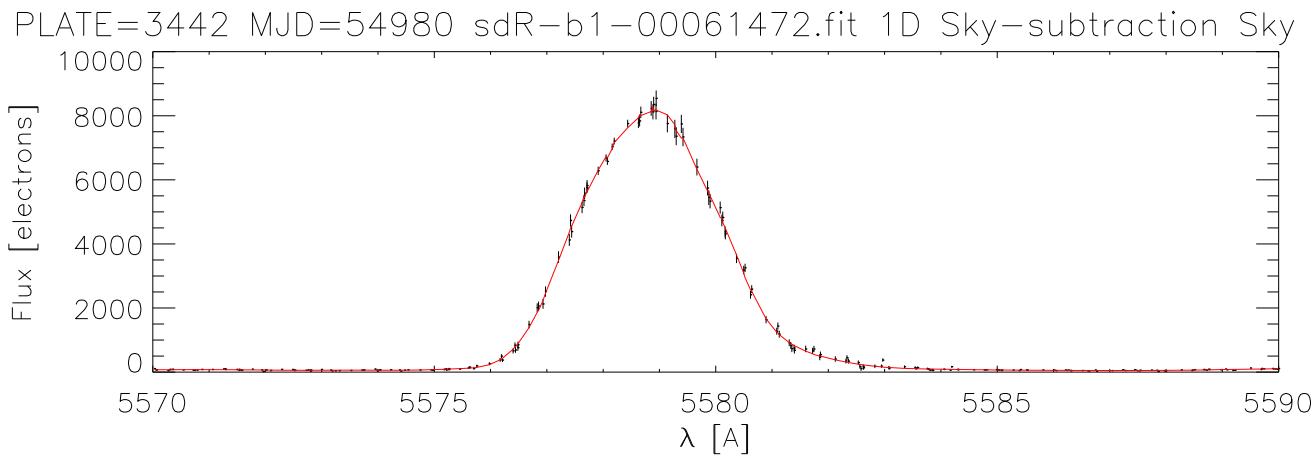

4046.5600
nfib1 16
nfib2 16
stdev 0.077
extra −0.11
4358.3300
nfib1 15
nfib2 15
stdev 0.060
extra −0.19
5460.9400
nfib1 16
nfib2 16
stdev 0.048
extra −0.05
5577.3390
nfib1 16
nfib2 16
stdev 0.018
extra −0.05
5889.9500
nfib1 16
nfib2 16
stdev 0.039
extra 0.10
5895.9240
nfib1 15
nfib2 16
stdev 0.051
extra 0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

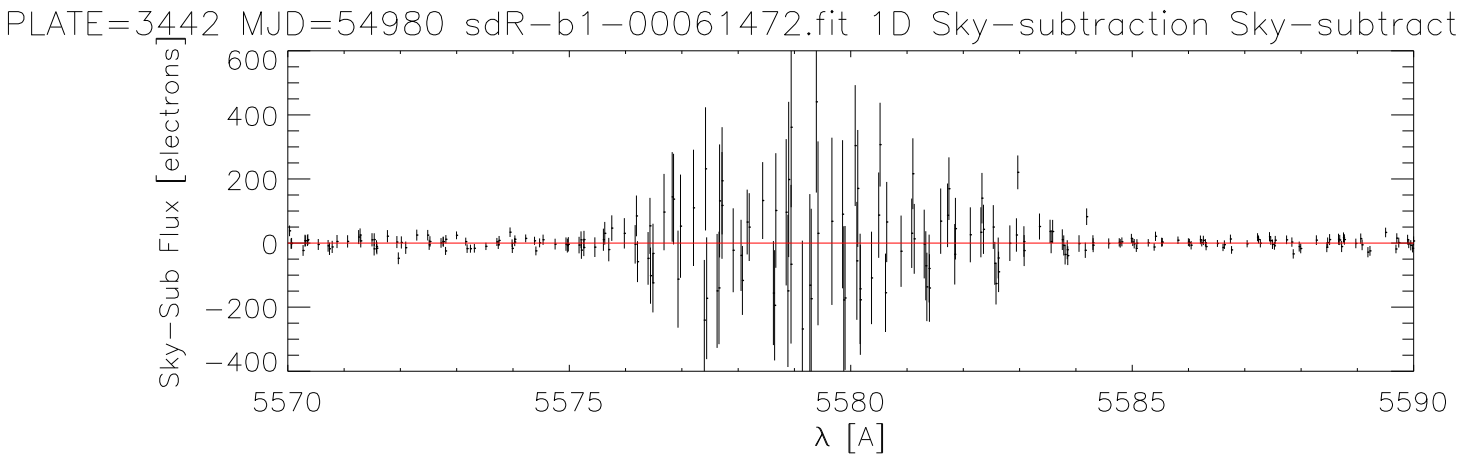

0.1
0.0
−0.1
−0.2
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

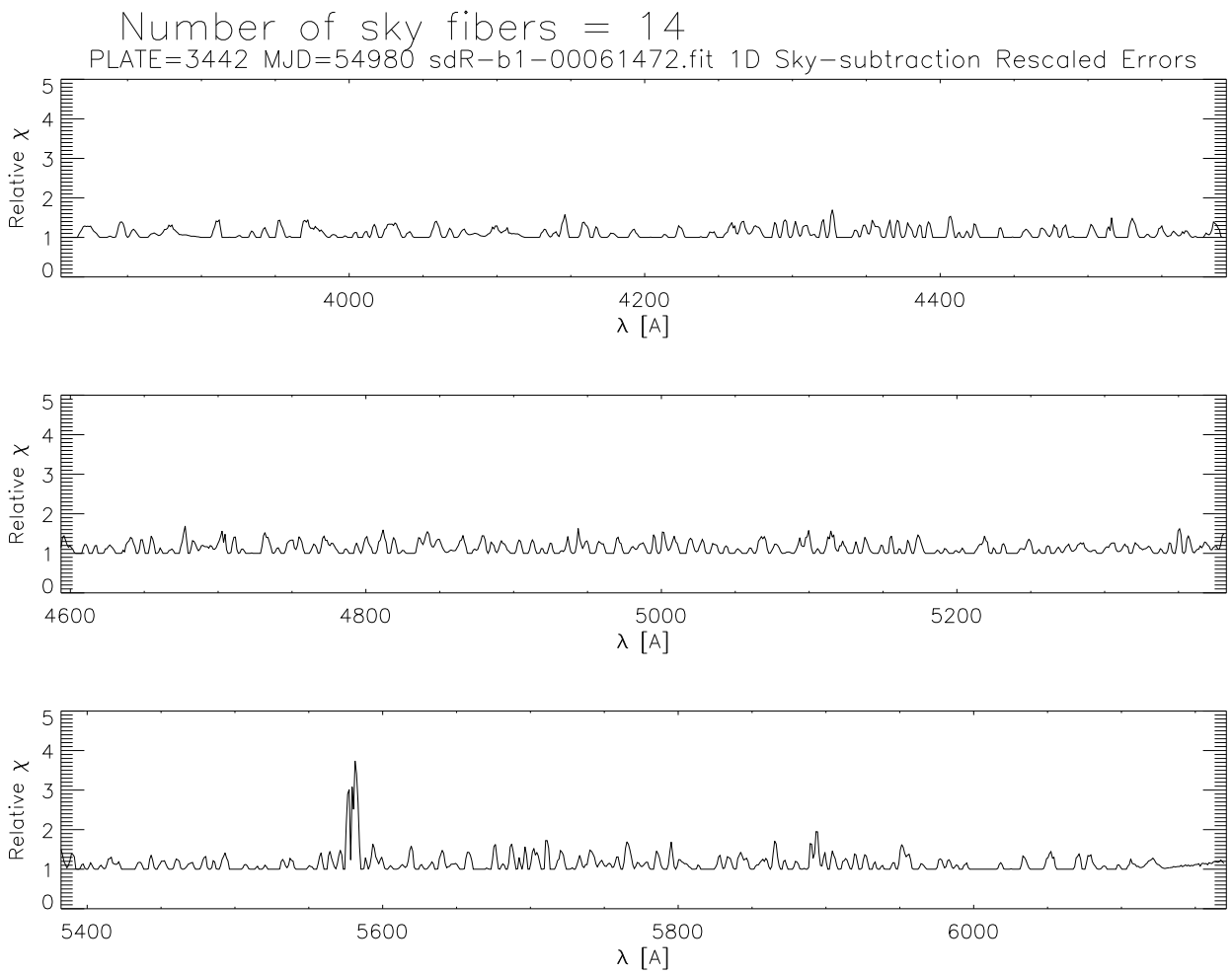
es= 0.0000

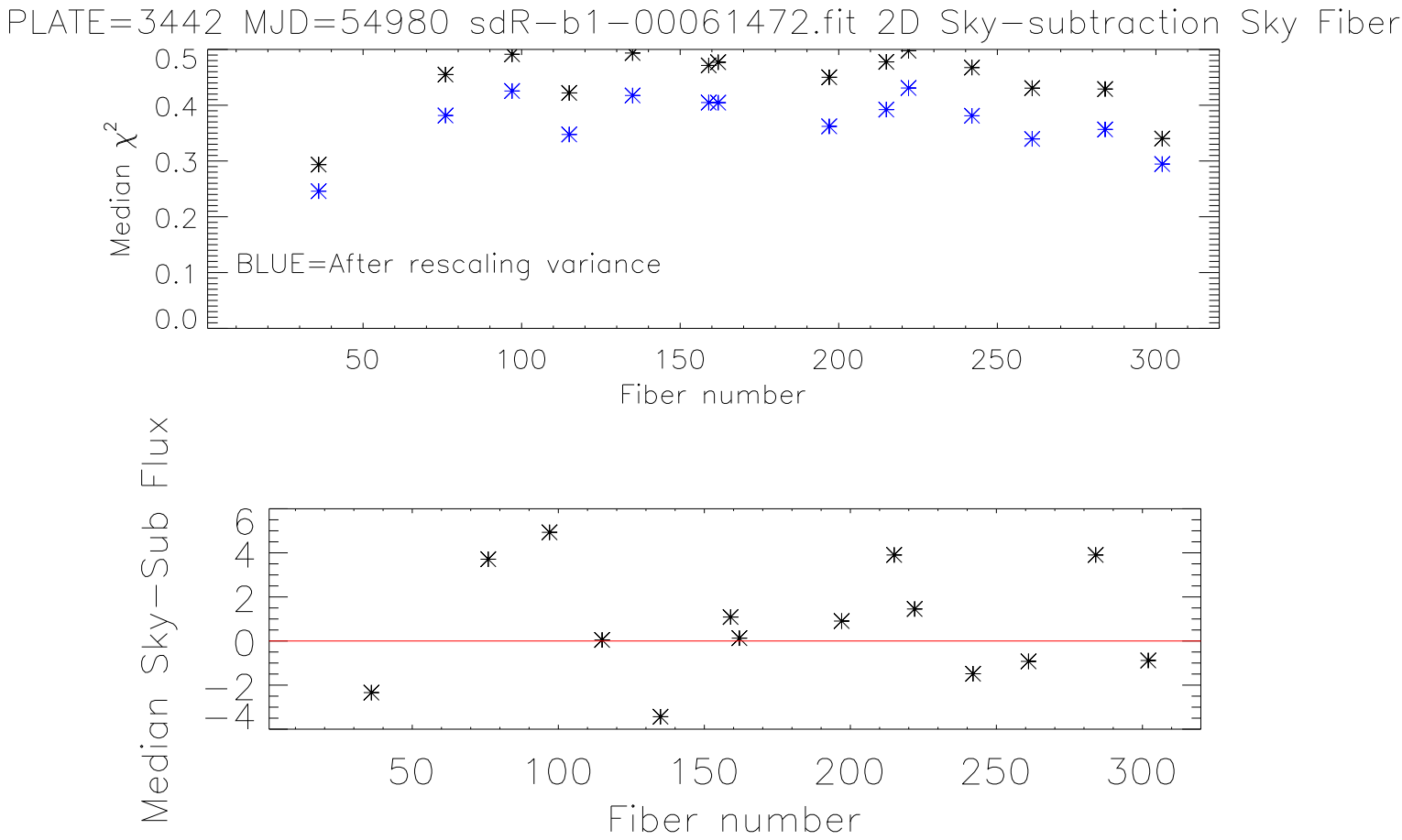

PLATE=3442 MJD=54980 Smooth superflat for sdR-b1-00061472.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

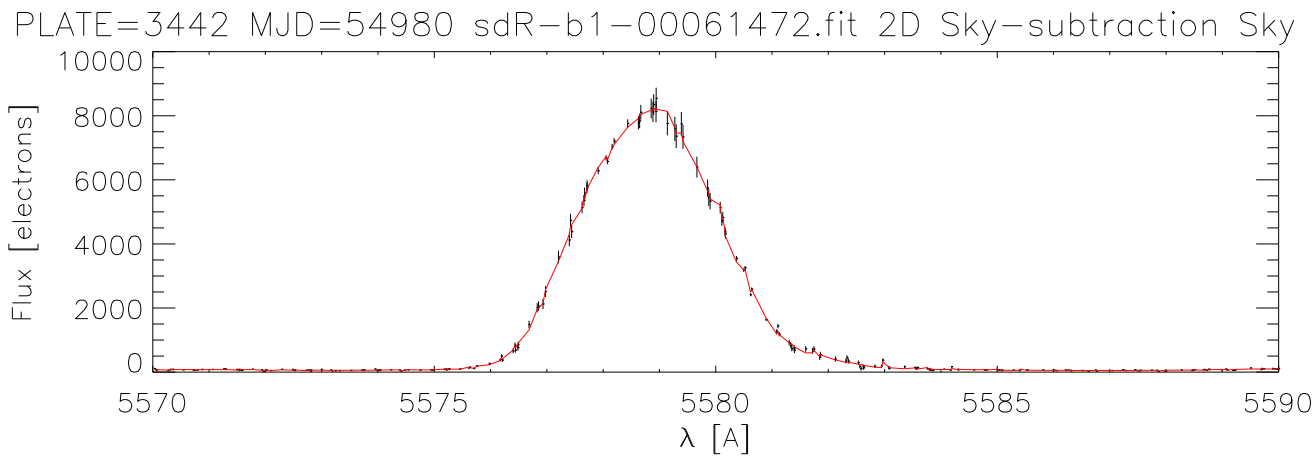

PLATE=3442 MJD=54980 sdR-b1-00061472.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

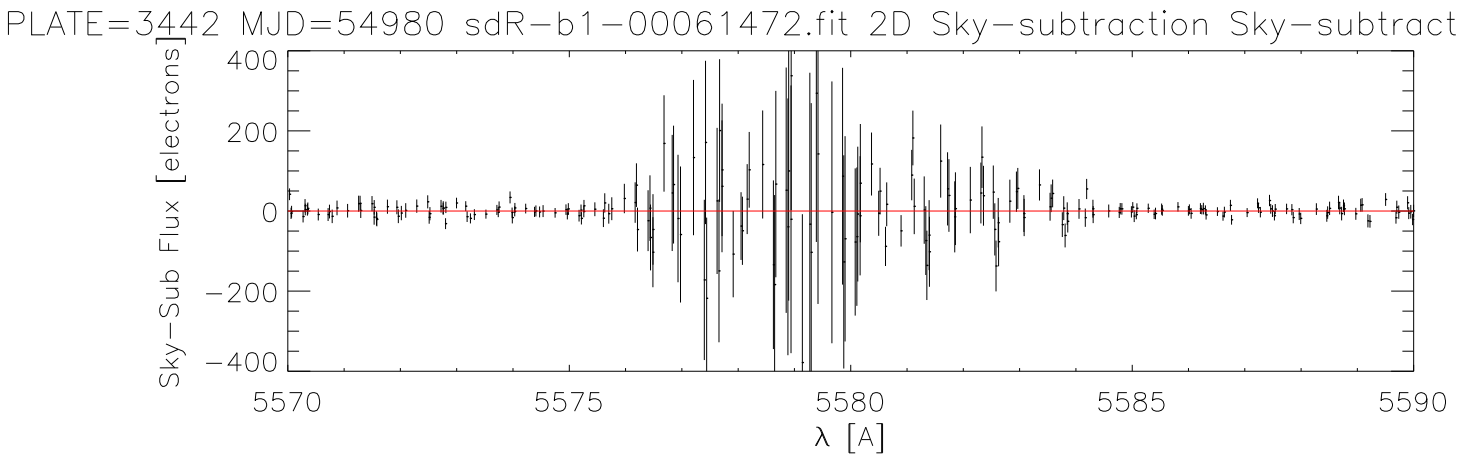

PLATE=3442 MJD=54980 sdR-b1-00061472.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

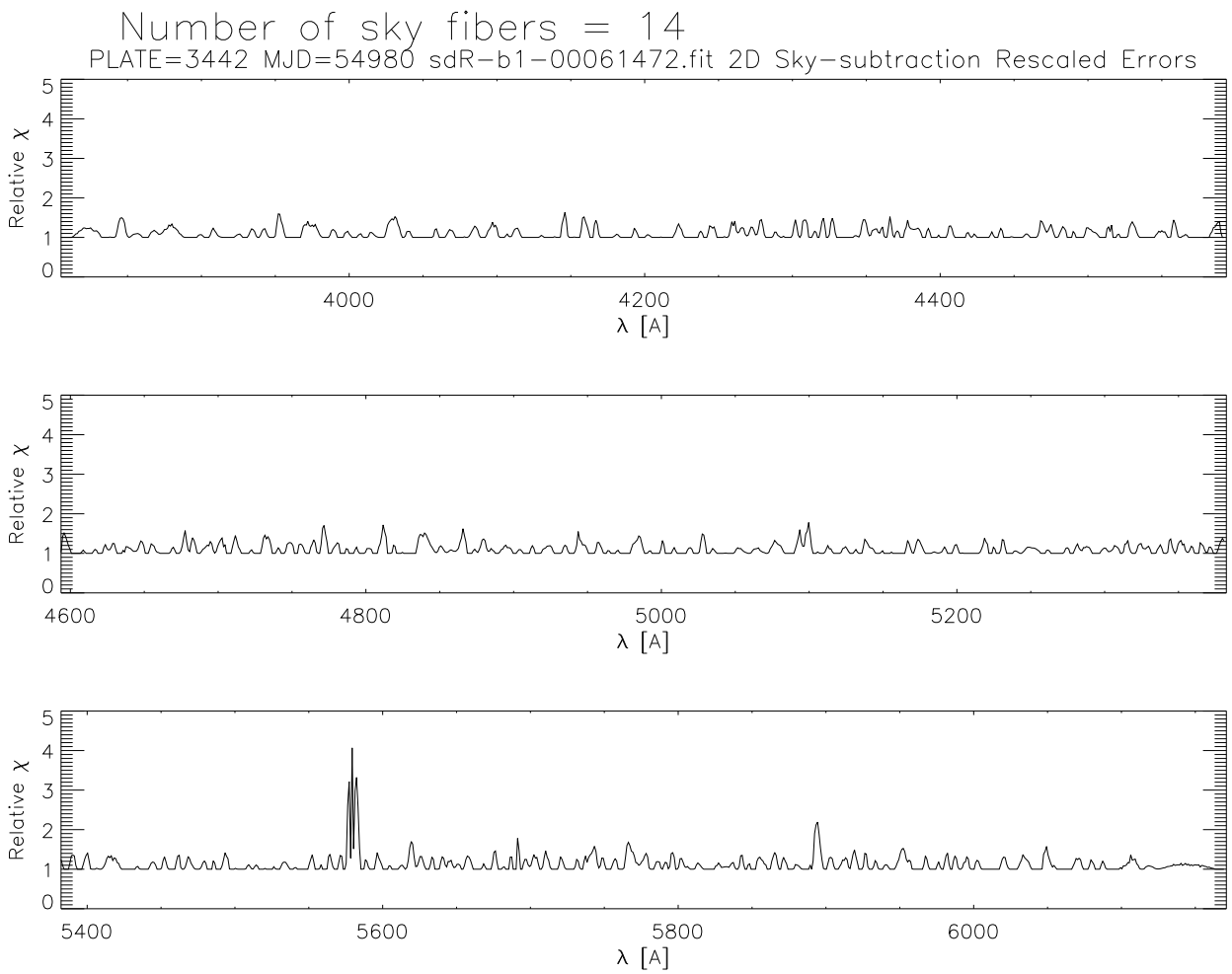

PLATE=3442 MJD=54980 sdR-b1-00061472.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

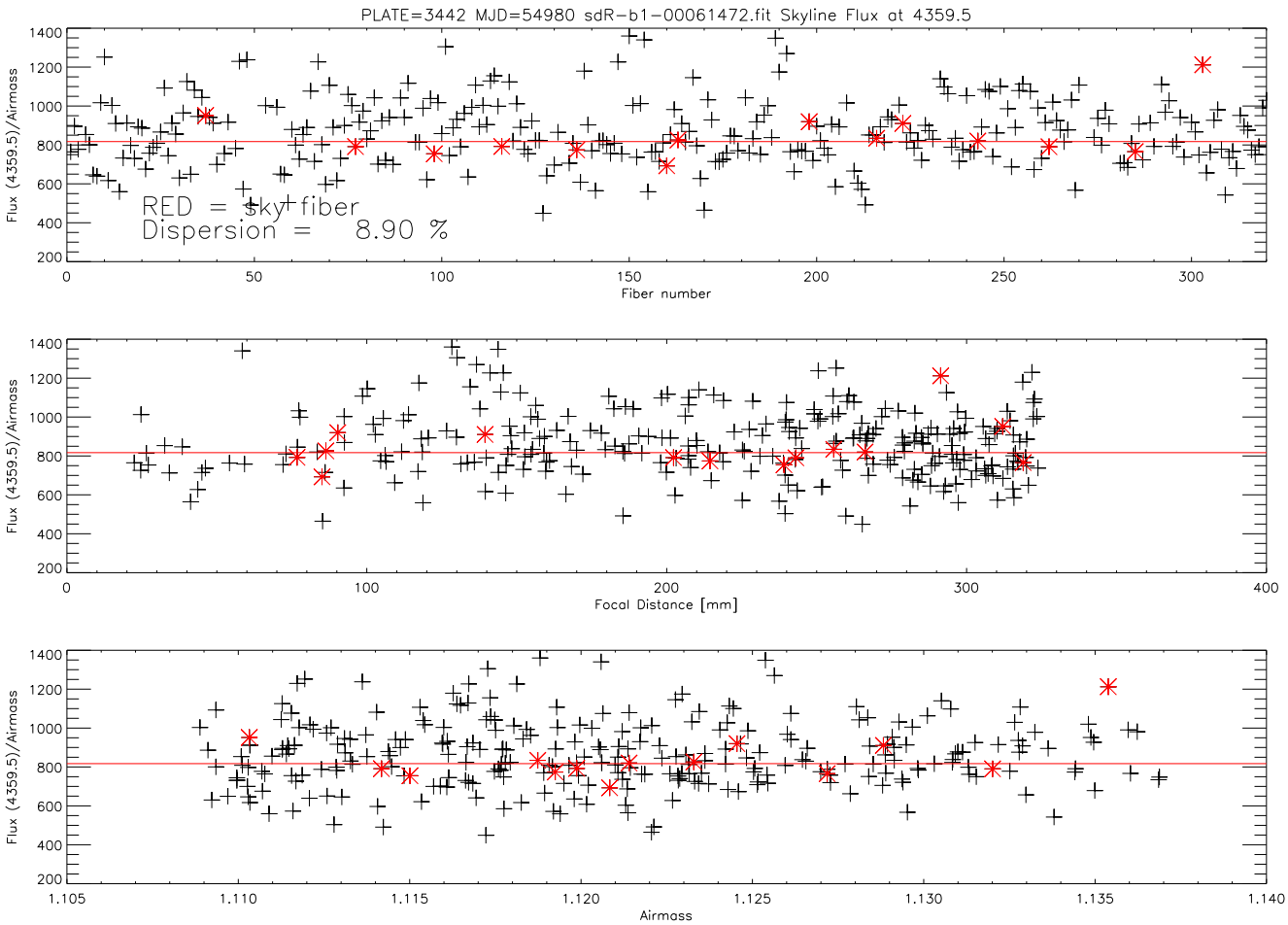

Number of sky fibers = 14
PLATE=3442 MJD=54980 sdR-b1-00061472.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

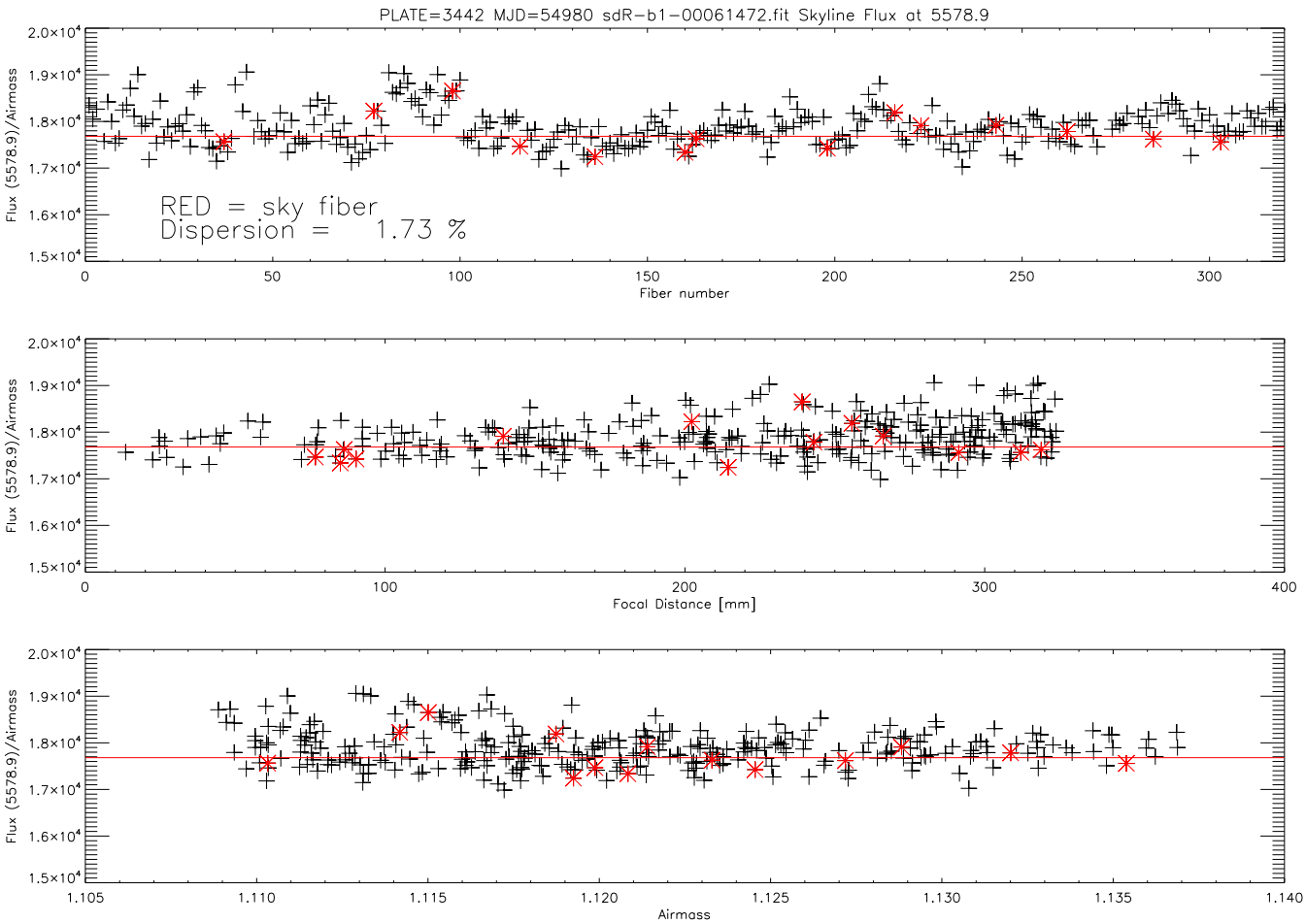

PLATE=3442 MJD=54980 sdR-b1-00061472.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

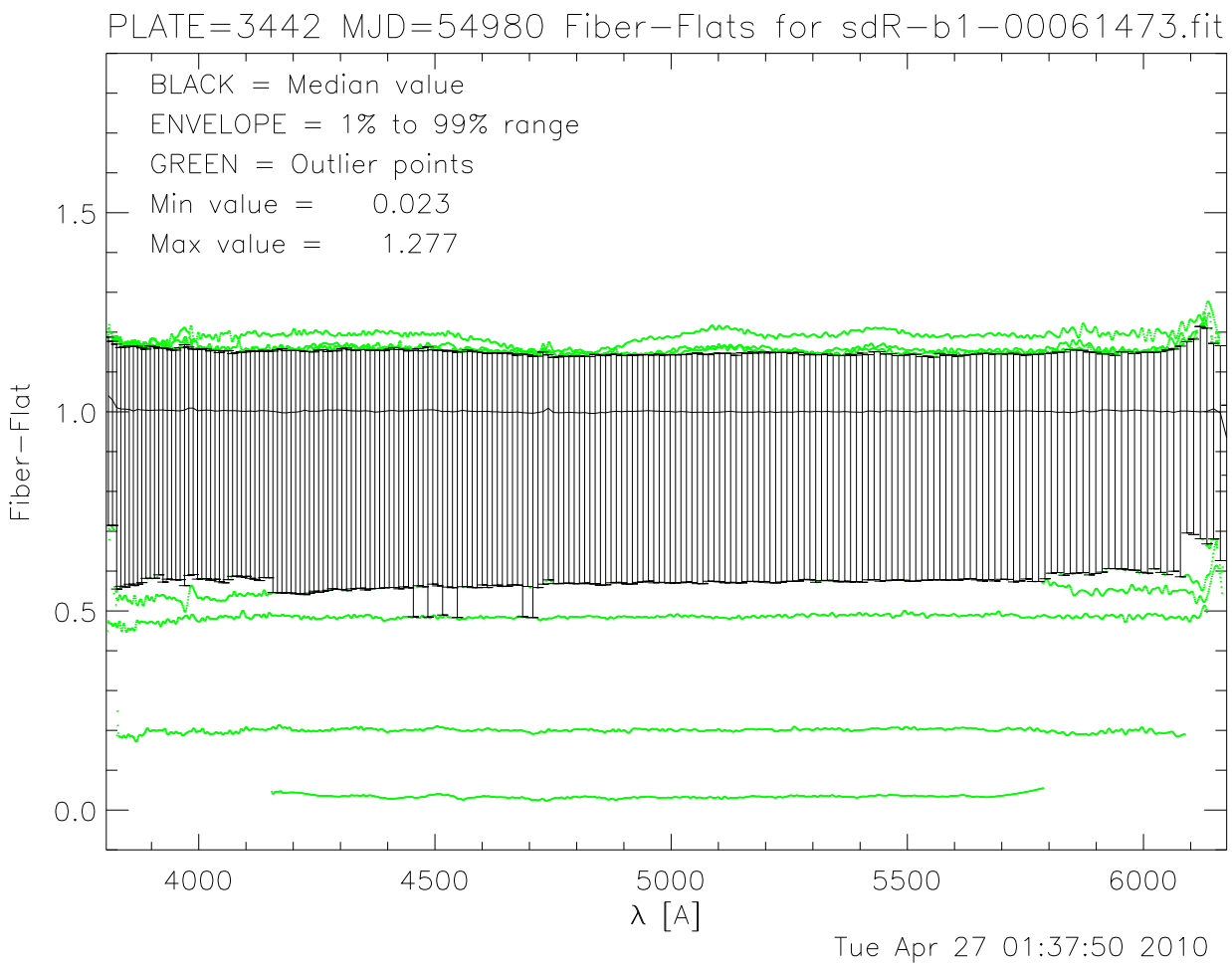

PLATE=3442 MJD=54980 sdR-b1-00061472.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

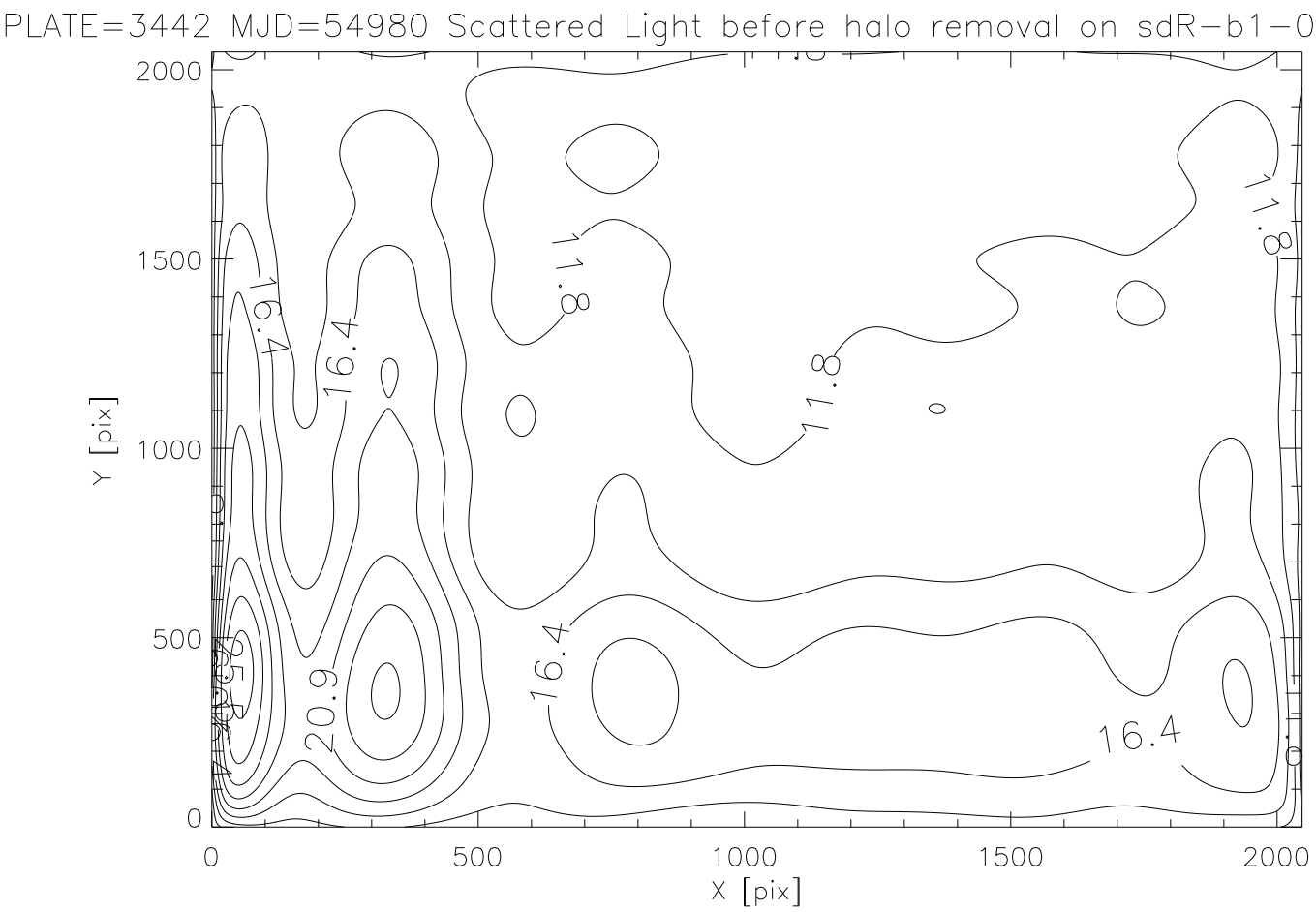

PLATE=3442 MJD=54980 sdR-b1-00061472.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

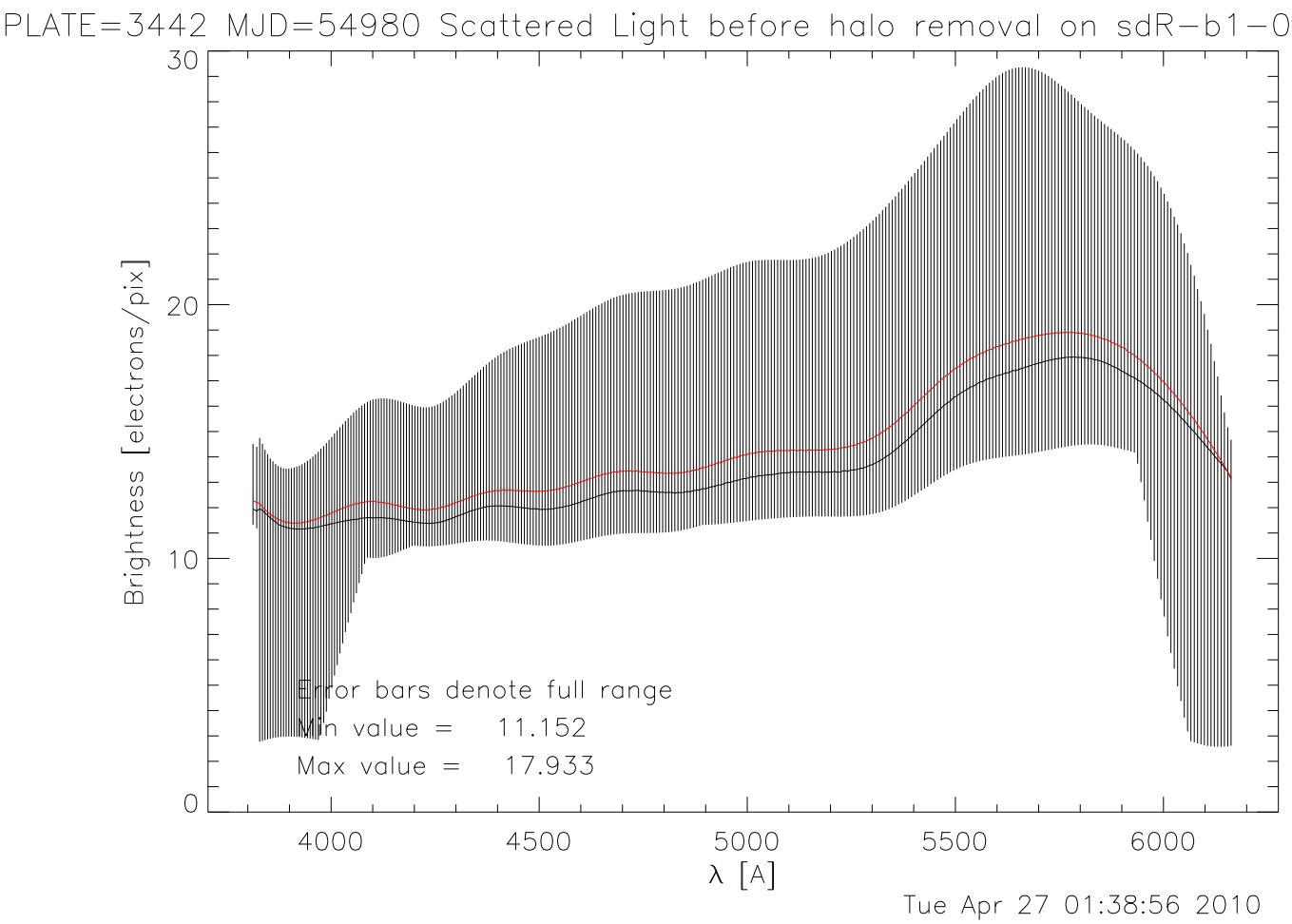

Number of sky fibers = 14
PLATE=3442 MJD=54980 sdR-b1-00061472.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

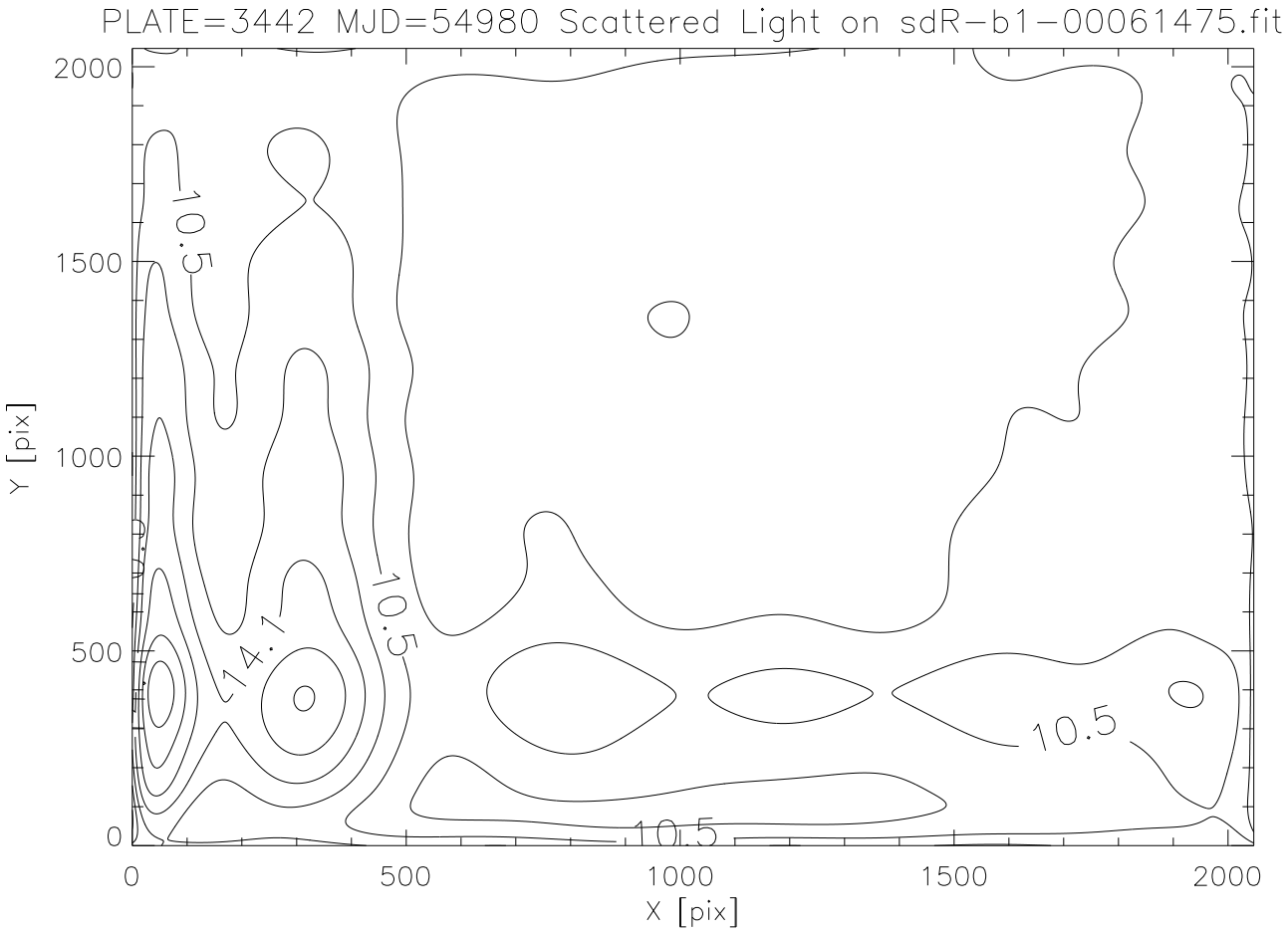

PLATE=3442 MJD=54980 sdR-b1-00061472.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.90 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

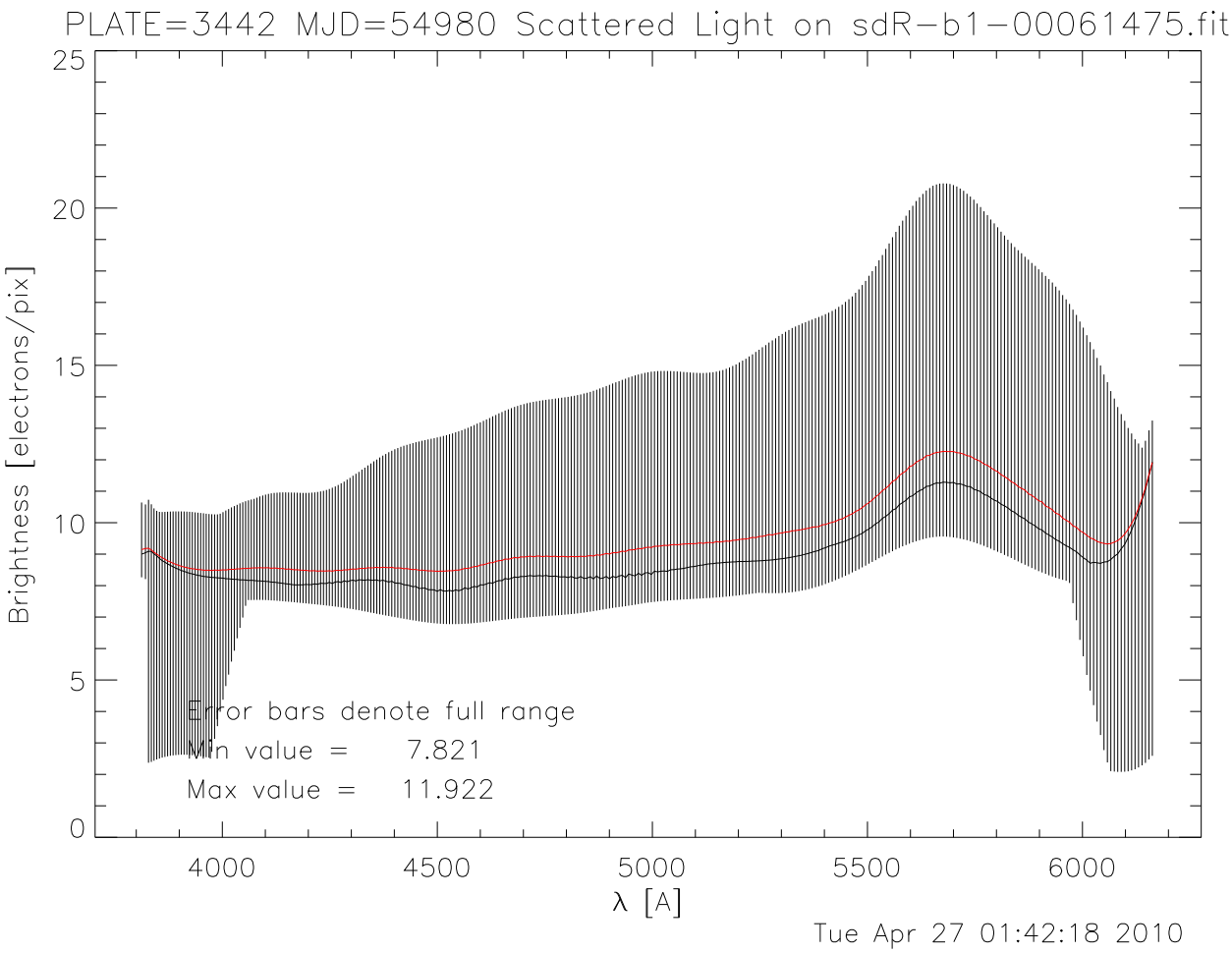

PLATE=3442 MJD=54980 sdR-b1-00061472.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.73 %
Fiber number
Focal Distance [mm]
Airmass

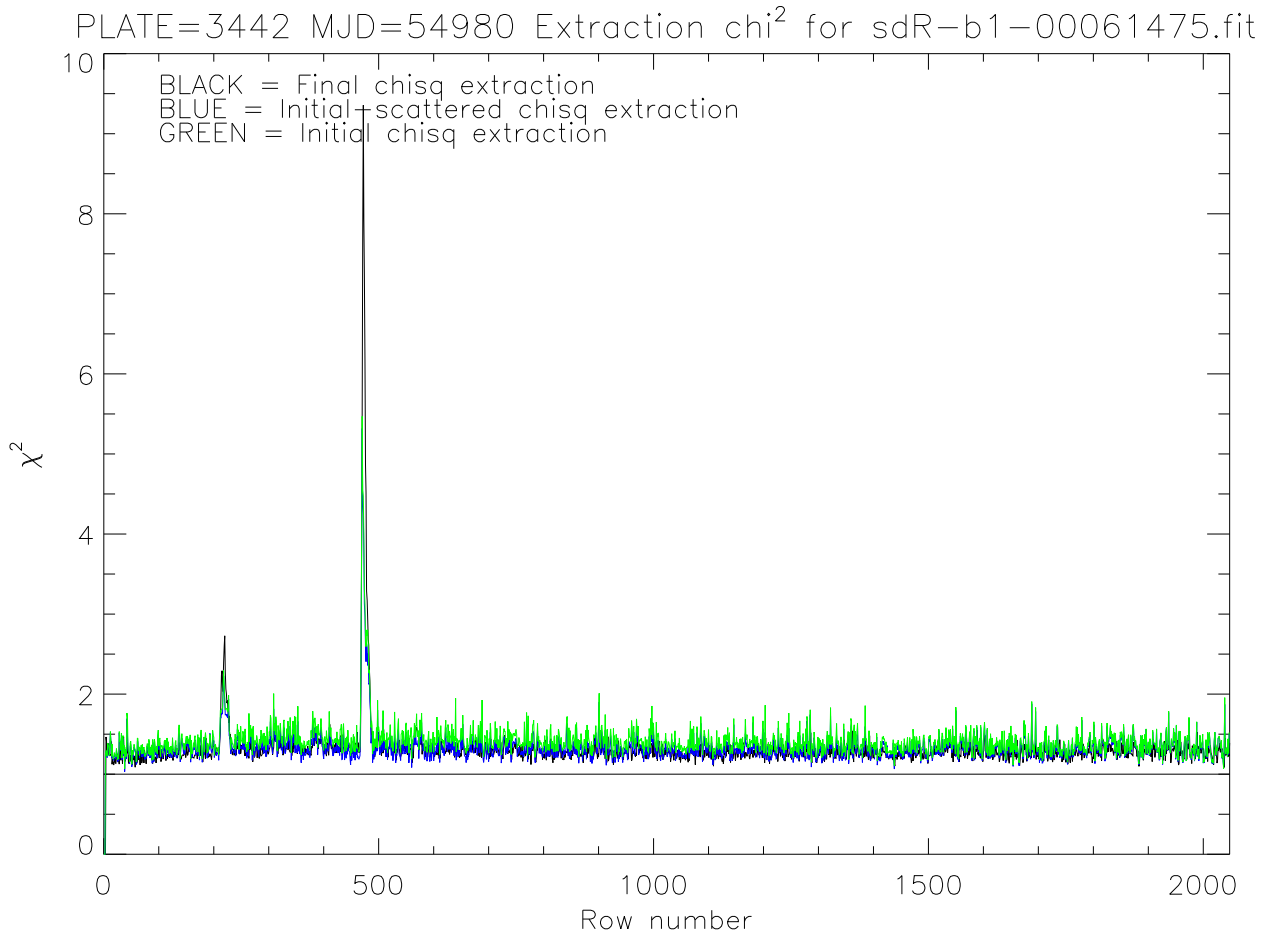

PLATE=3442 MJD=54980 Fiber−Flats for sdR−b1−00061473.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.023
Max value = 1.277
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Apr 27 01:37:50 2010

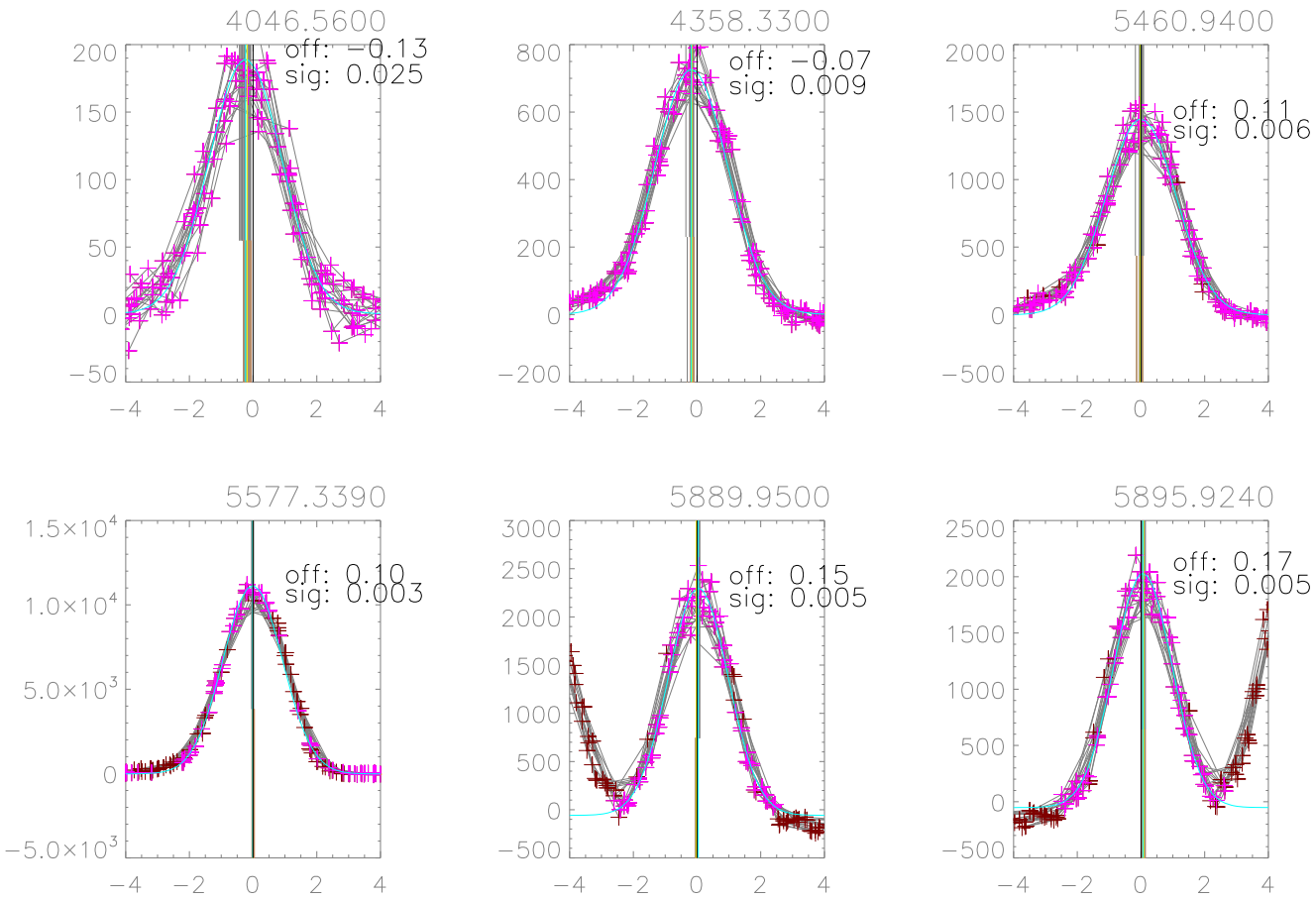

PLATE=3442 MJD=54980 Scattered Light before halo removal on sdR−b1−00061475.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
16.4
16.4
11.8
11.8
16.4
20.9
16.4
11.8

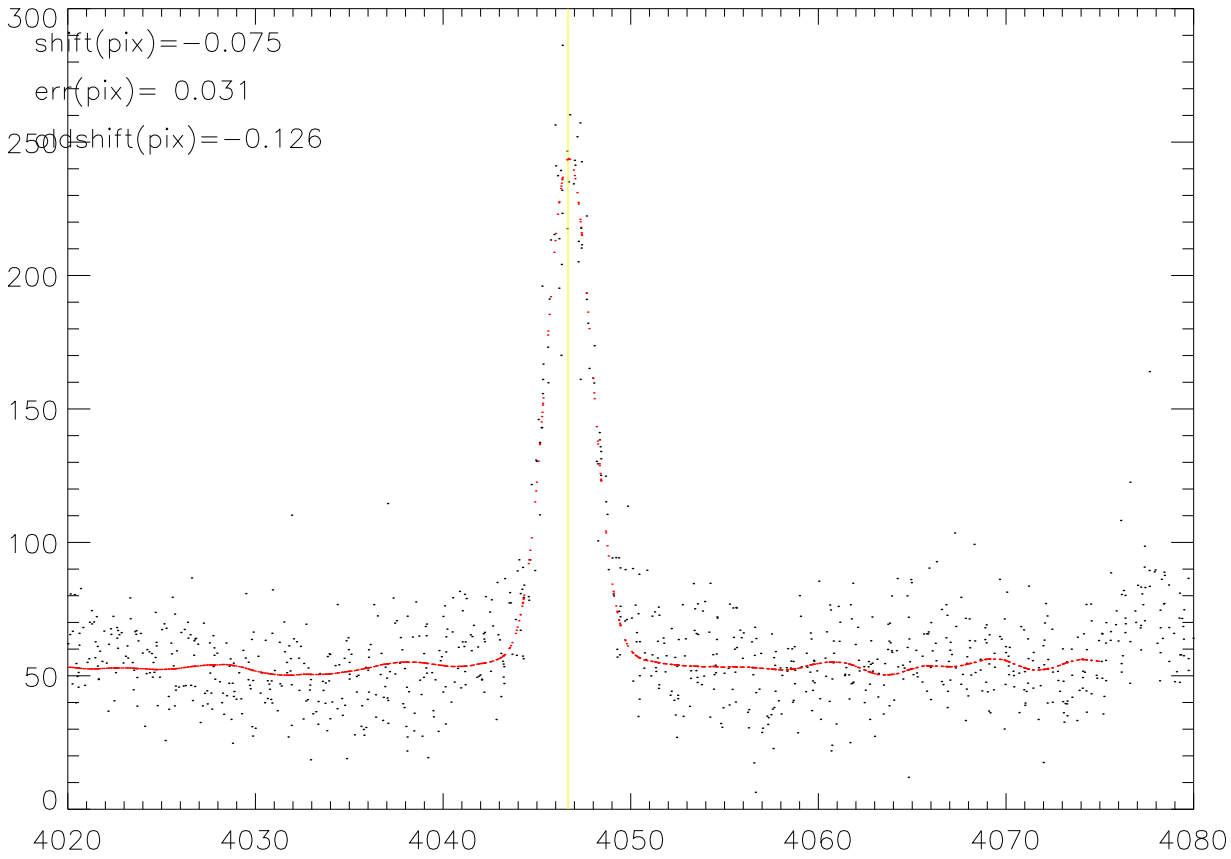

PLATE=3442 MJD=54980 Scattered Light before halo removal on sdR-b1-00061475.f
Brightness [electrons/pix]
30
20
10
0
Error bars denote full range
Min value = 11.152
Max value = 17.933
4000
4500
5000
5500
6000
λ [A]
Tue Apr 27 01:38:56 2010

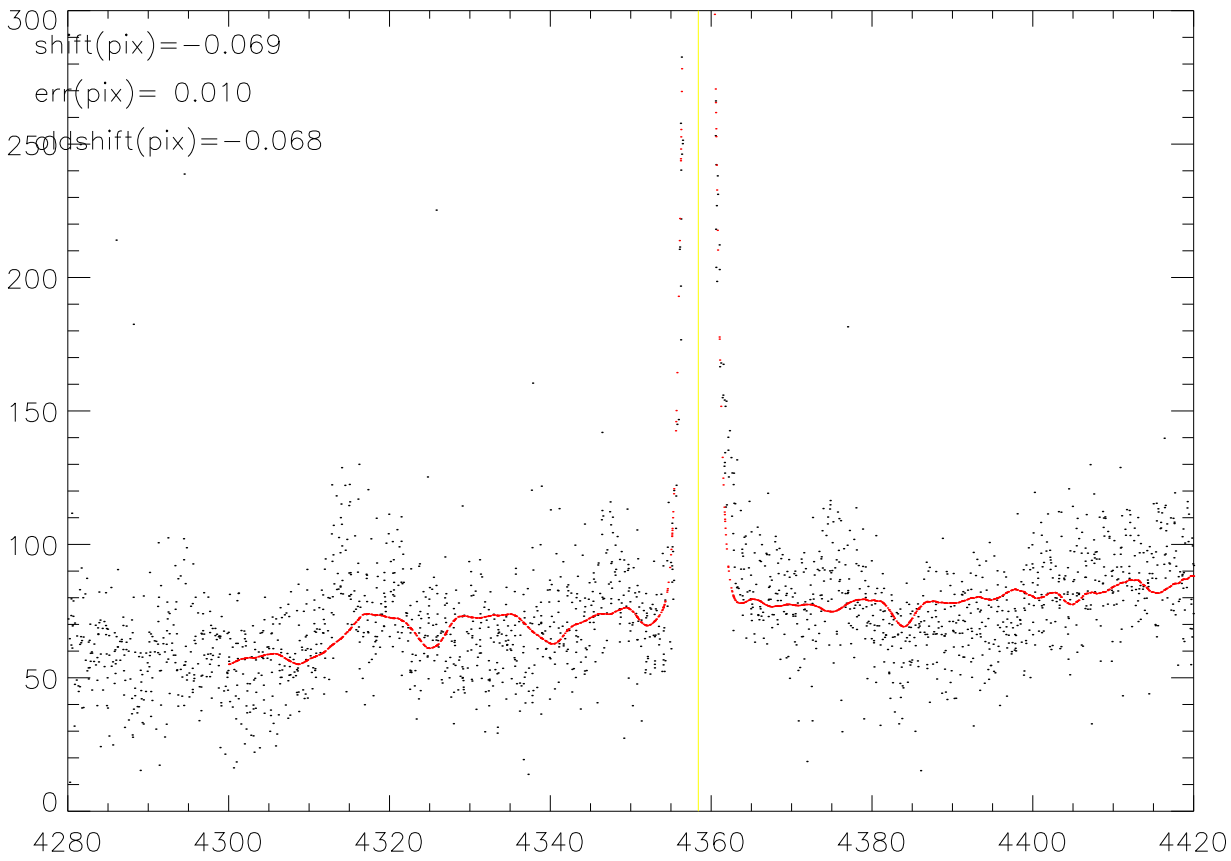

PLATE=3442 MJD=54980 Scattered Light on sdR-b1-00061475.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
10.5
14.1
10.5
10.5
10.5

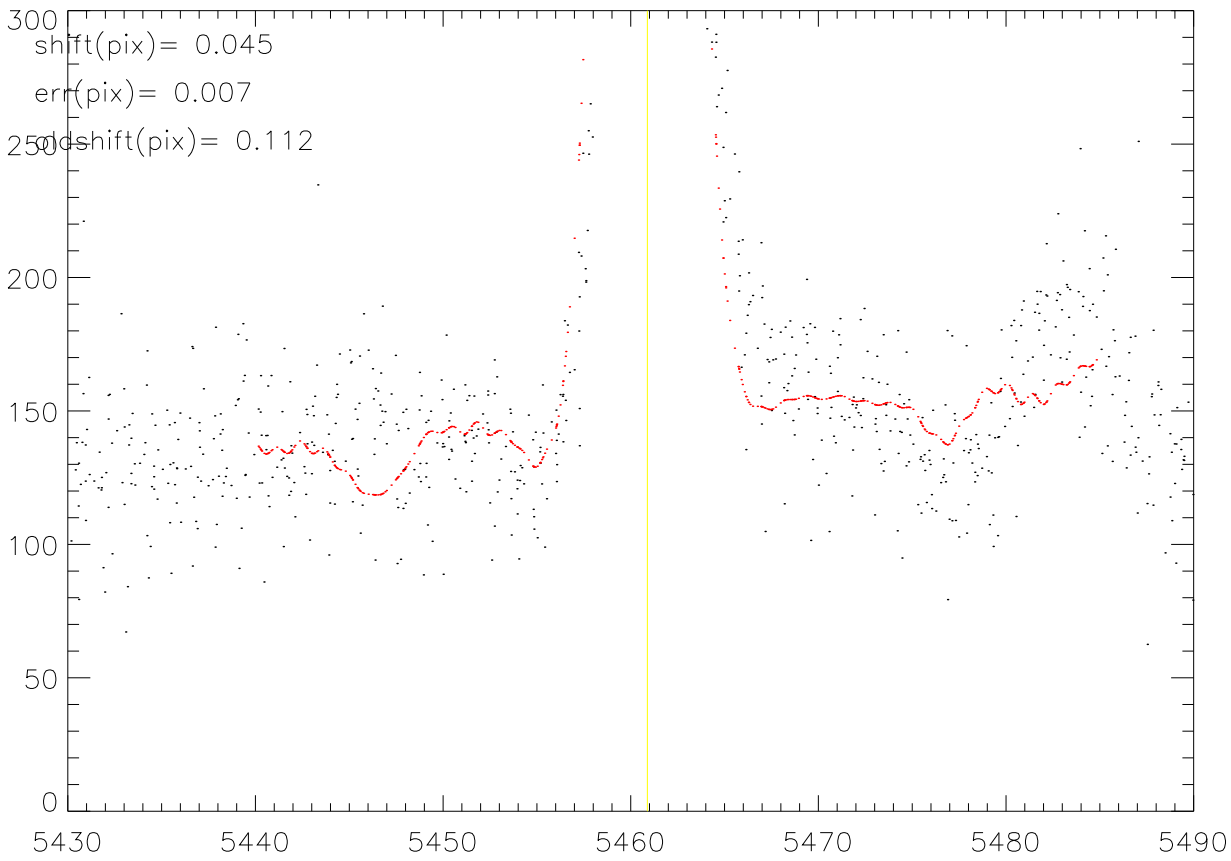

PLATE=3442 MJD=54980 Scattered Light on sdR-b1-00061475.fit
Brightness [electrons/pix]
25
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 7.821
Max value = 11.922
Tue Apr 27 01:42:18 2010

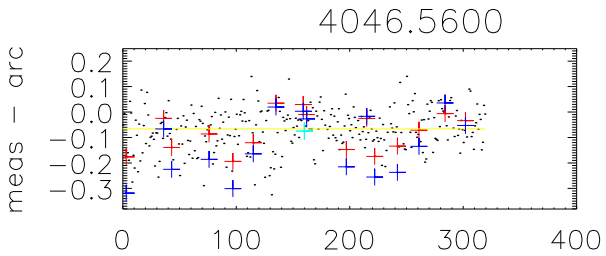

PLATE=3442 MJD=54980 Extraction chi^2 for sdR-b1-00061475.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
0
500
1000
1500
2000
Row number

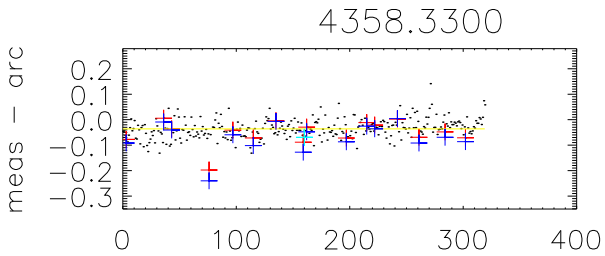

4046.5600
off: −0.13
sig: 0.025
4358.3300
off: −0.07
sig: 0.009
5460.9400
off: 0.11
sig: 0.006
5577.3390
off: 0.10
sig: 0.003
5889.9500
off: 0.15
sig: 0.005
5895.9240
off: 0.17
sig: 0.005

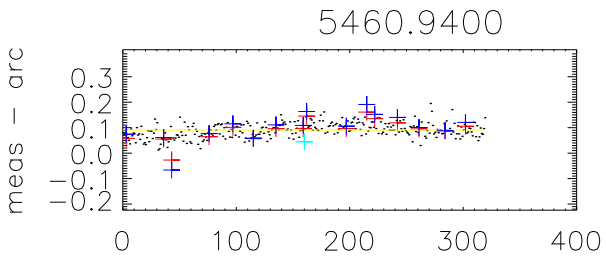

shift(pix)=−0.075
err(pix)= 0.031
oldshift(pix)=−0.126
300
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

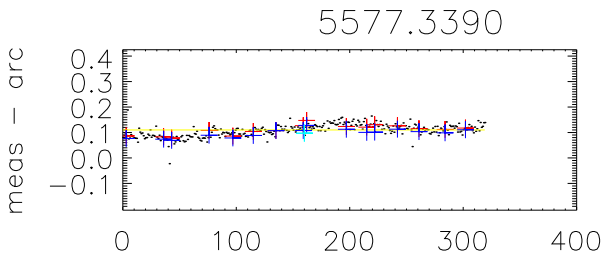

shift(pix)=−0.069
err(pix)= 0.010
oldshift(pix)=−0.068
300
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

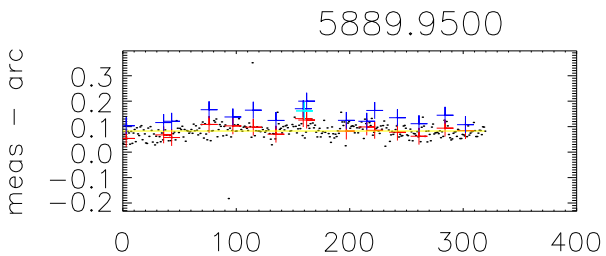

shift(pix)= 0.045
err(pix)= 0.007
oldshift(pix)= 0.112
300
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

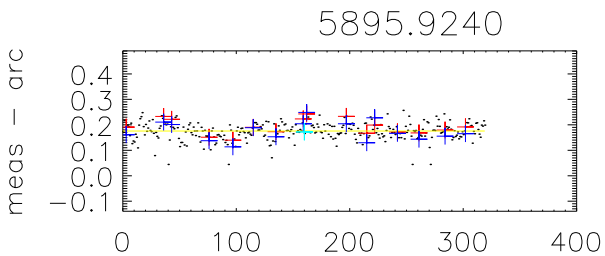

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

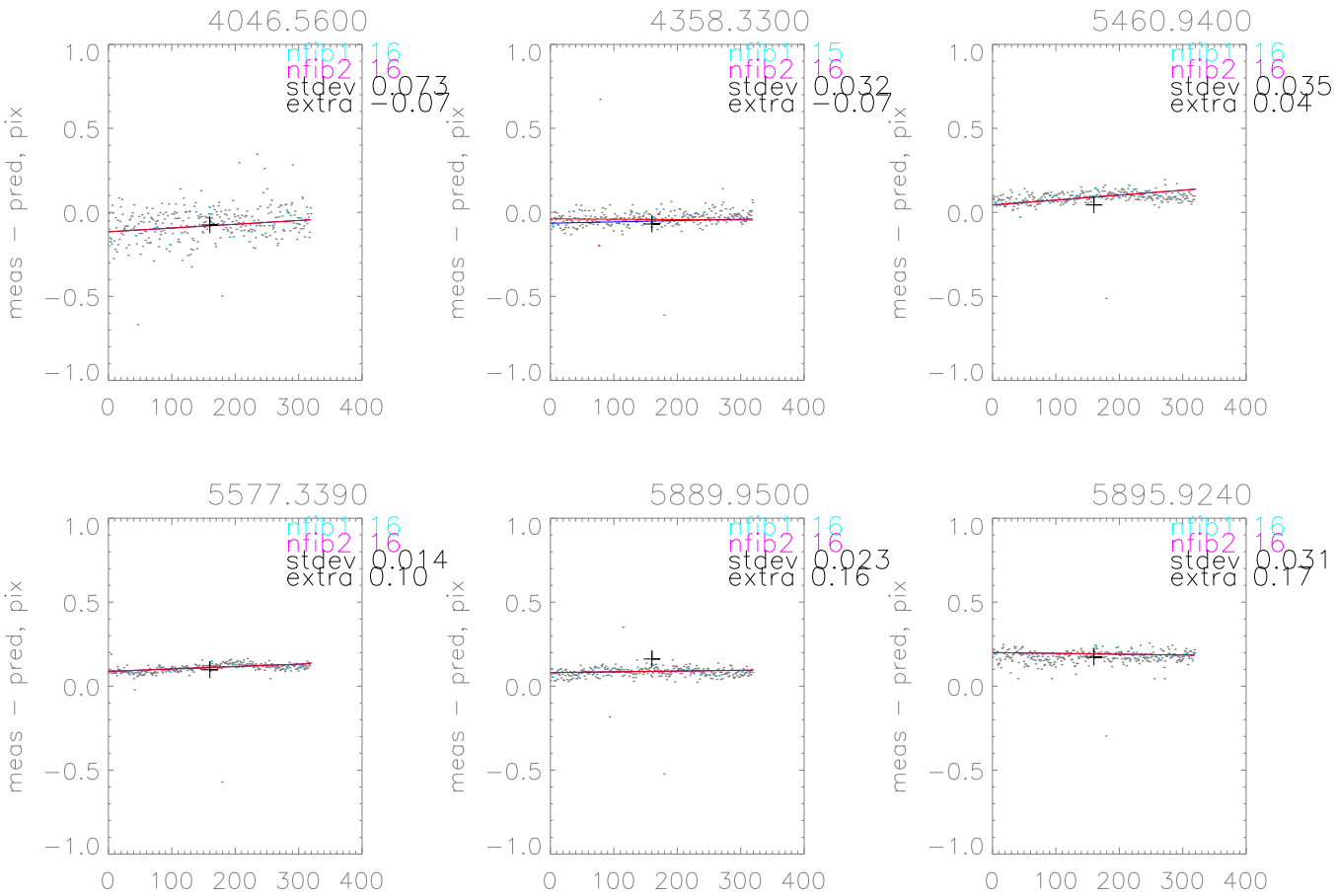

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

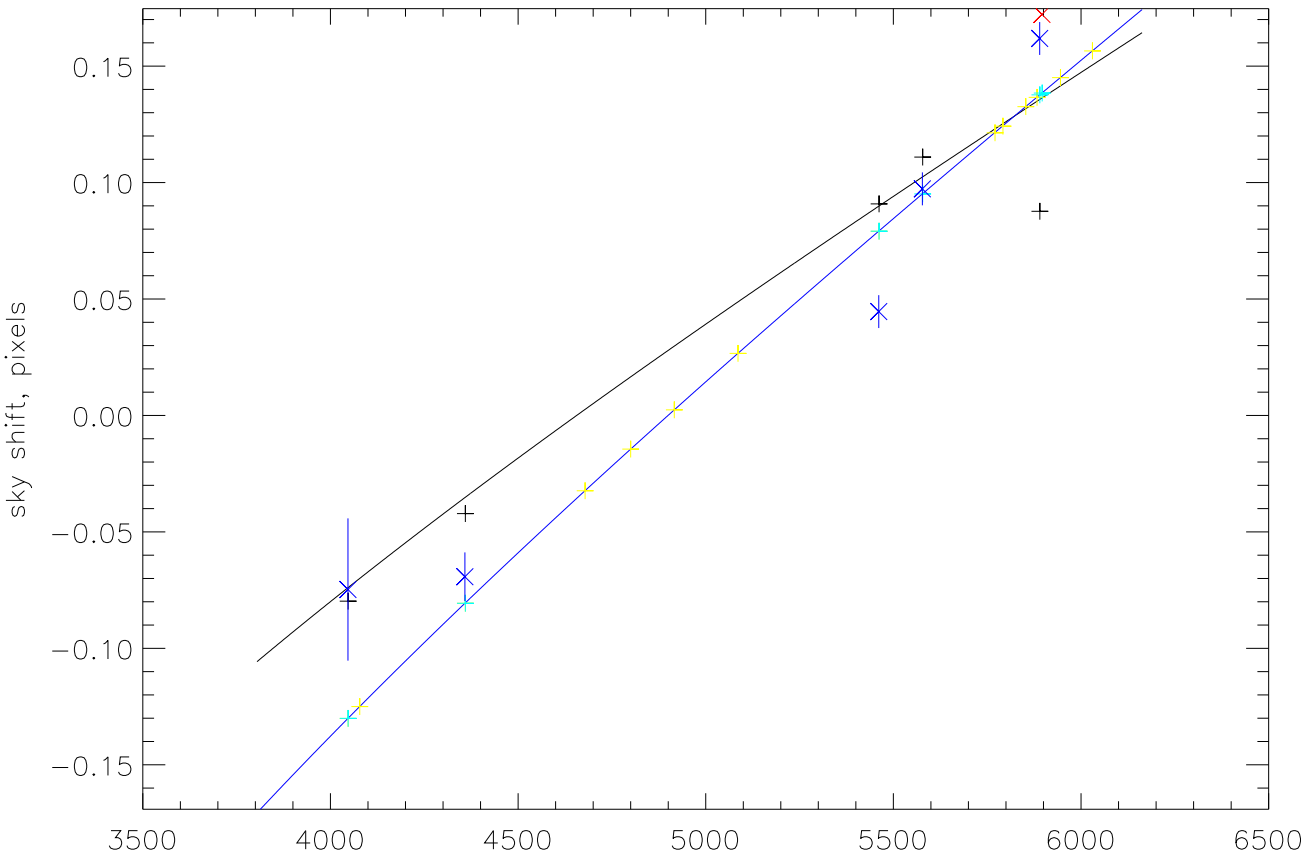

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

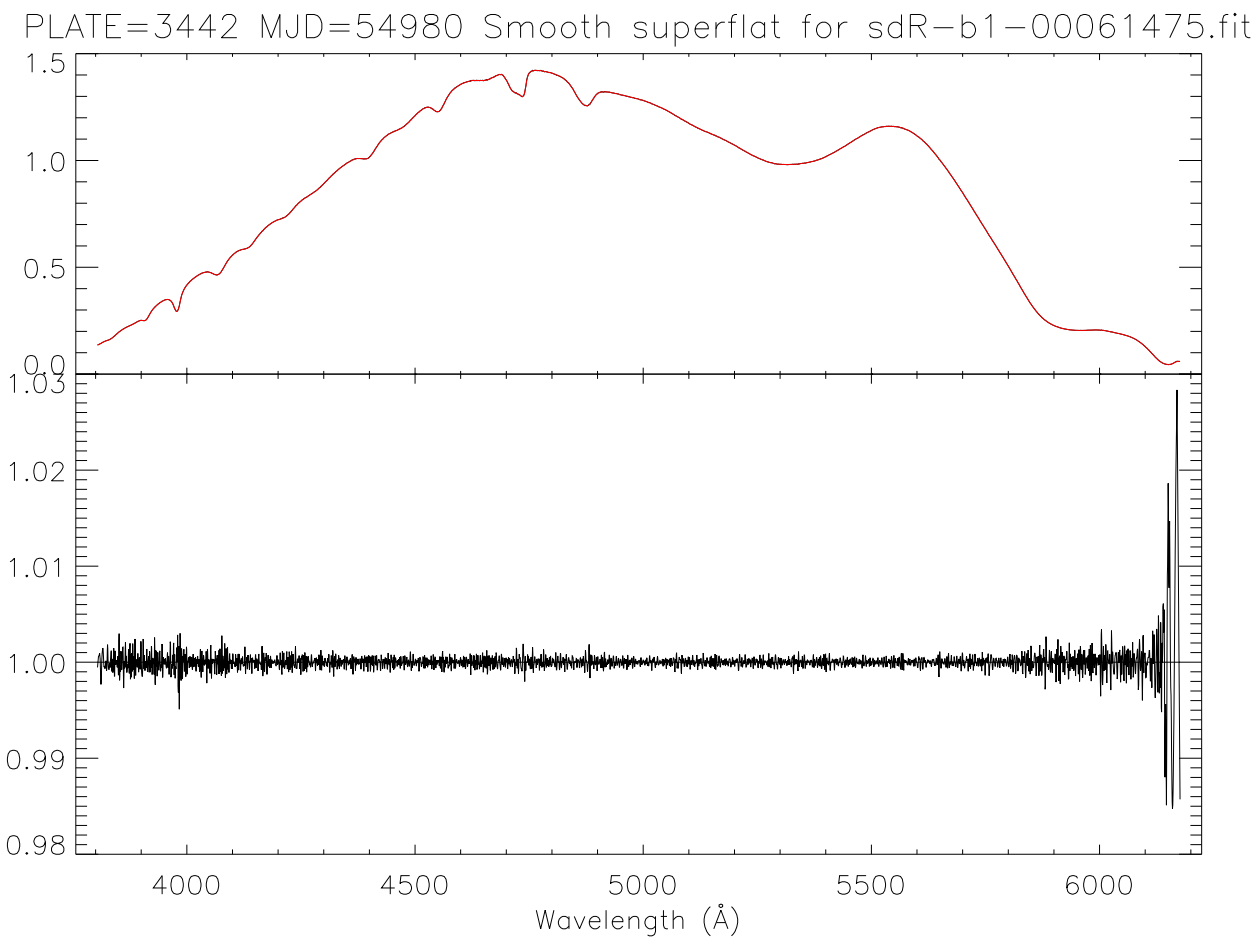

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

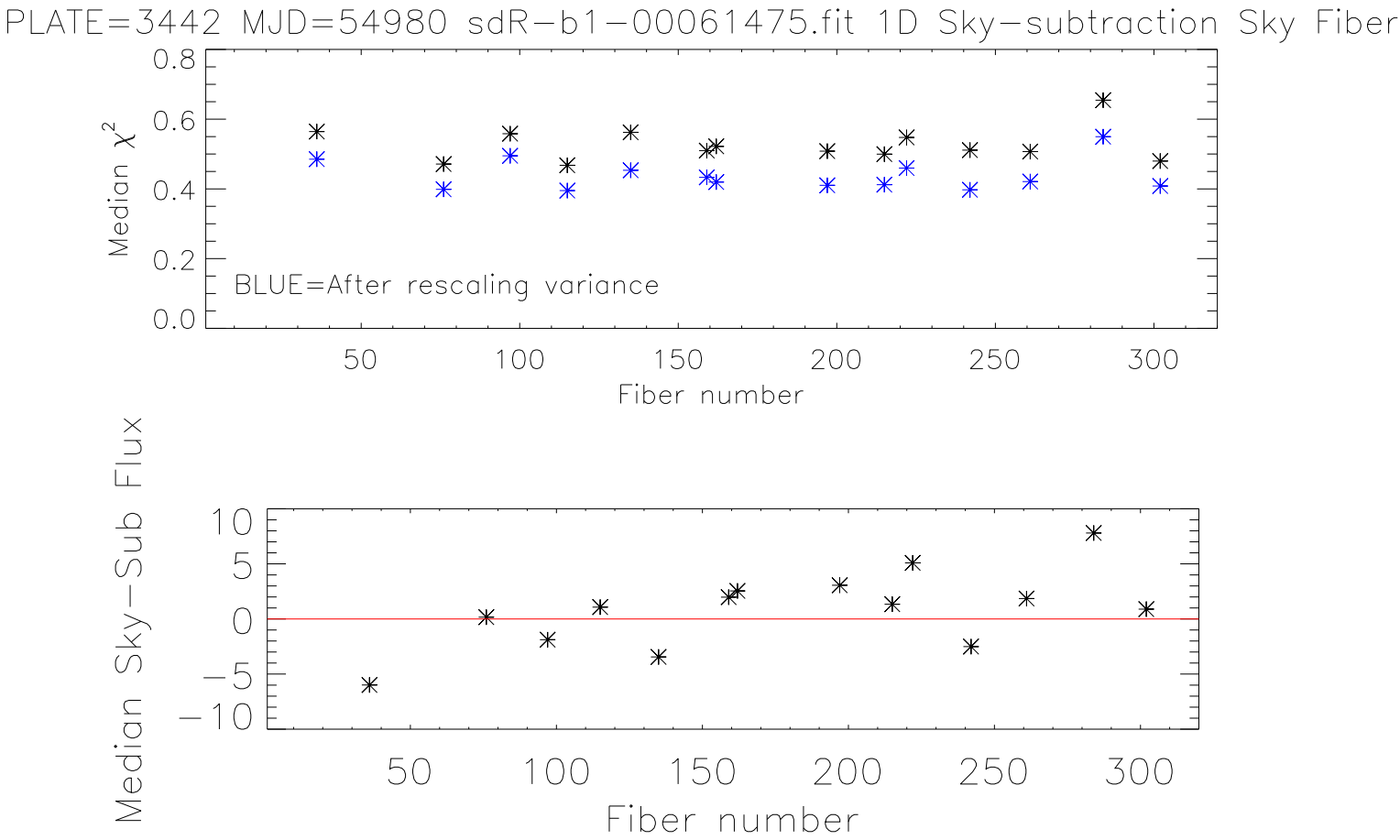

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

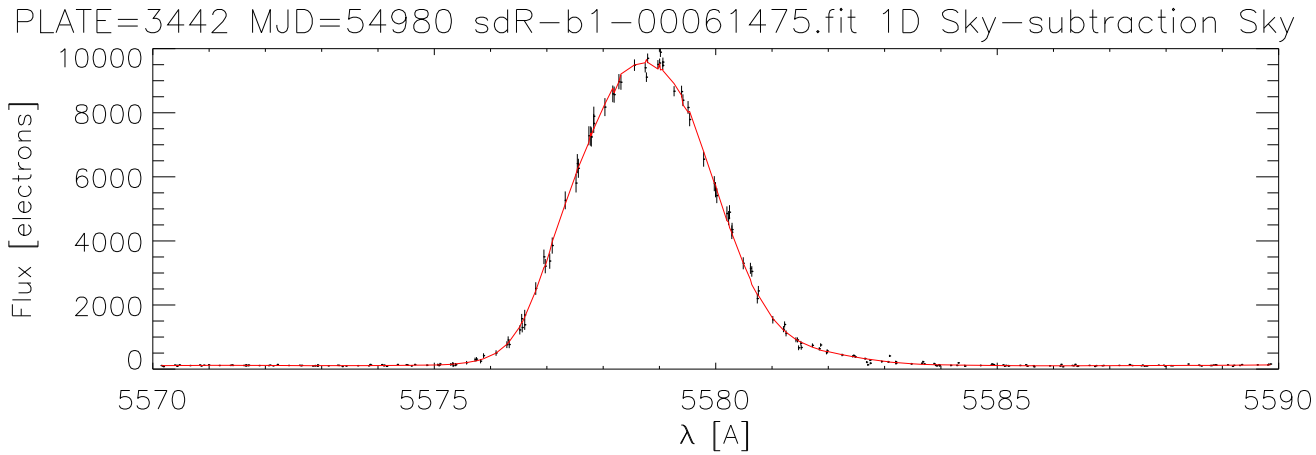

4046.5600
nfib1 16
nfib2 16
stdev 0.073
extra −0.07
4358.3300
nfib1 15
nfib2 16
stdev 0.032
extra −0.07
5460.9400
nfib1 16
nfib2 16
stdev 0.035
extra 0.04
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra 0.10
5889.9500
nfib1 16
nfib2 16
stdev 0.023
extra 0.16
5895.9240
nfib1 16
nfib2 16
stdev 0.031
extra 0.17
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

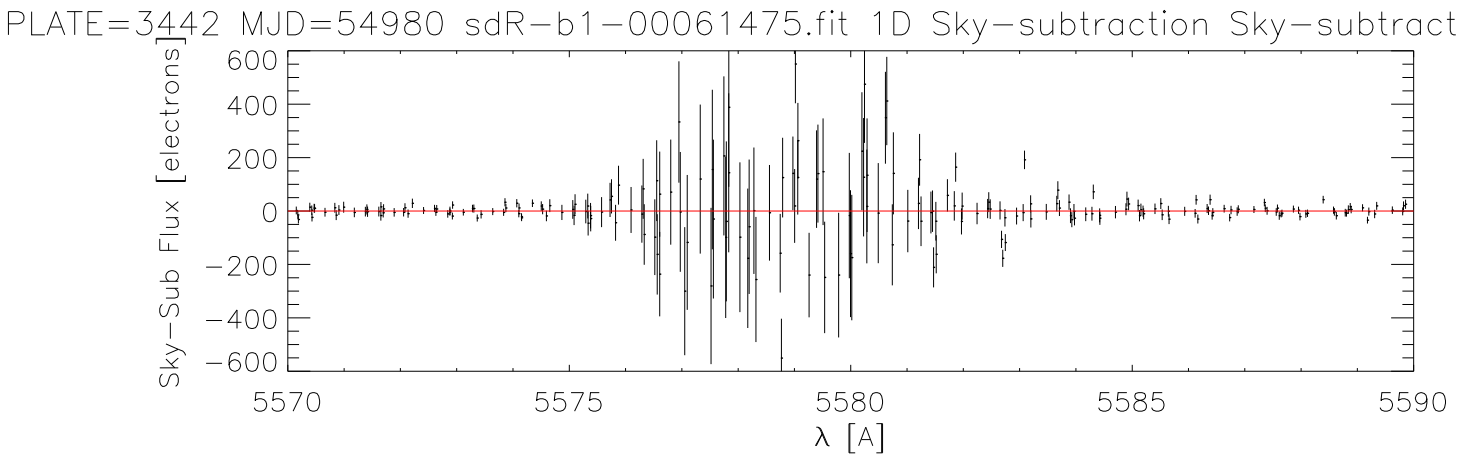

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

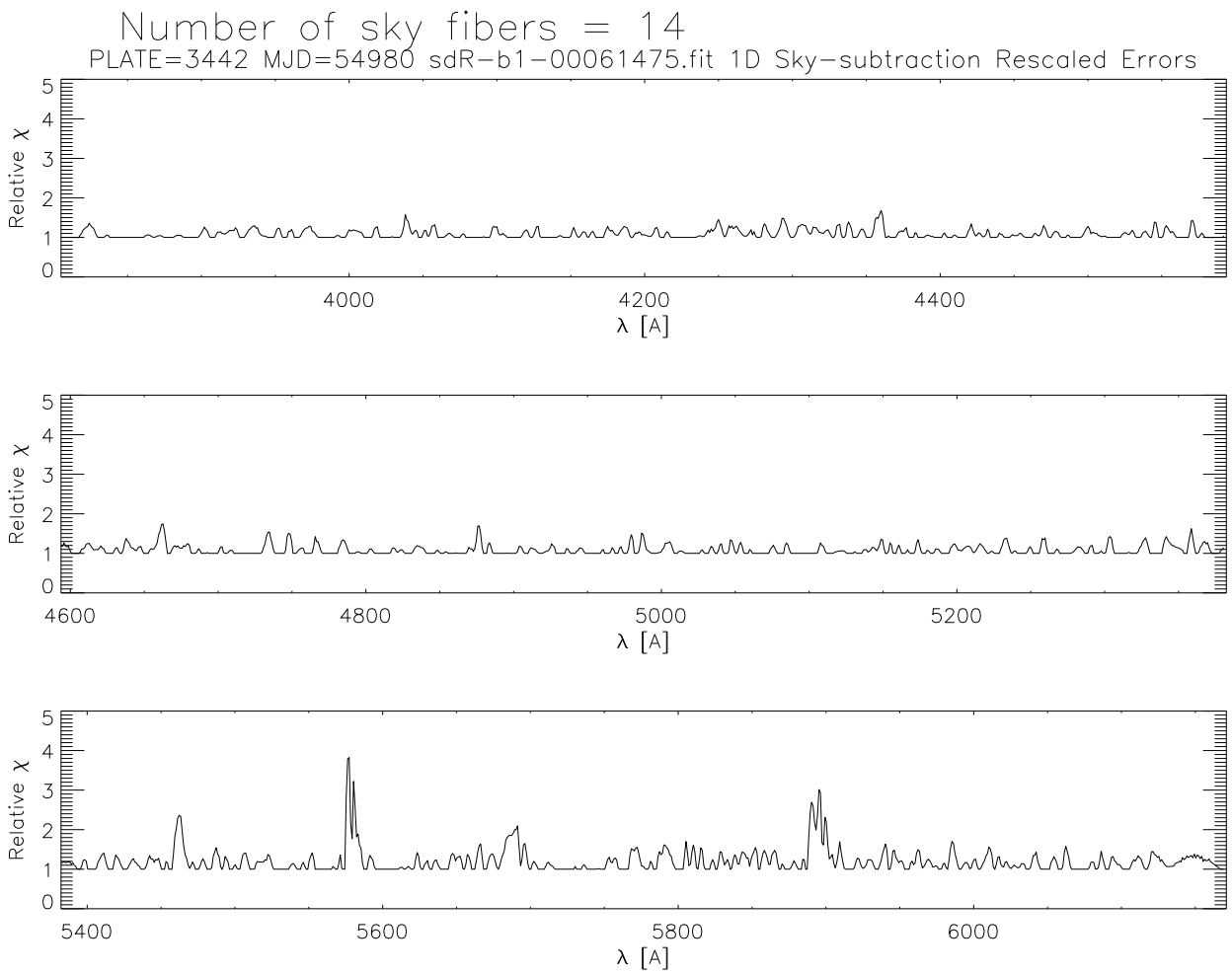
es= 0.0000

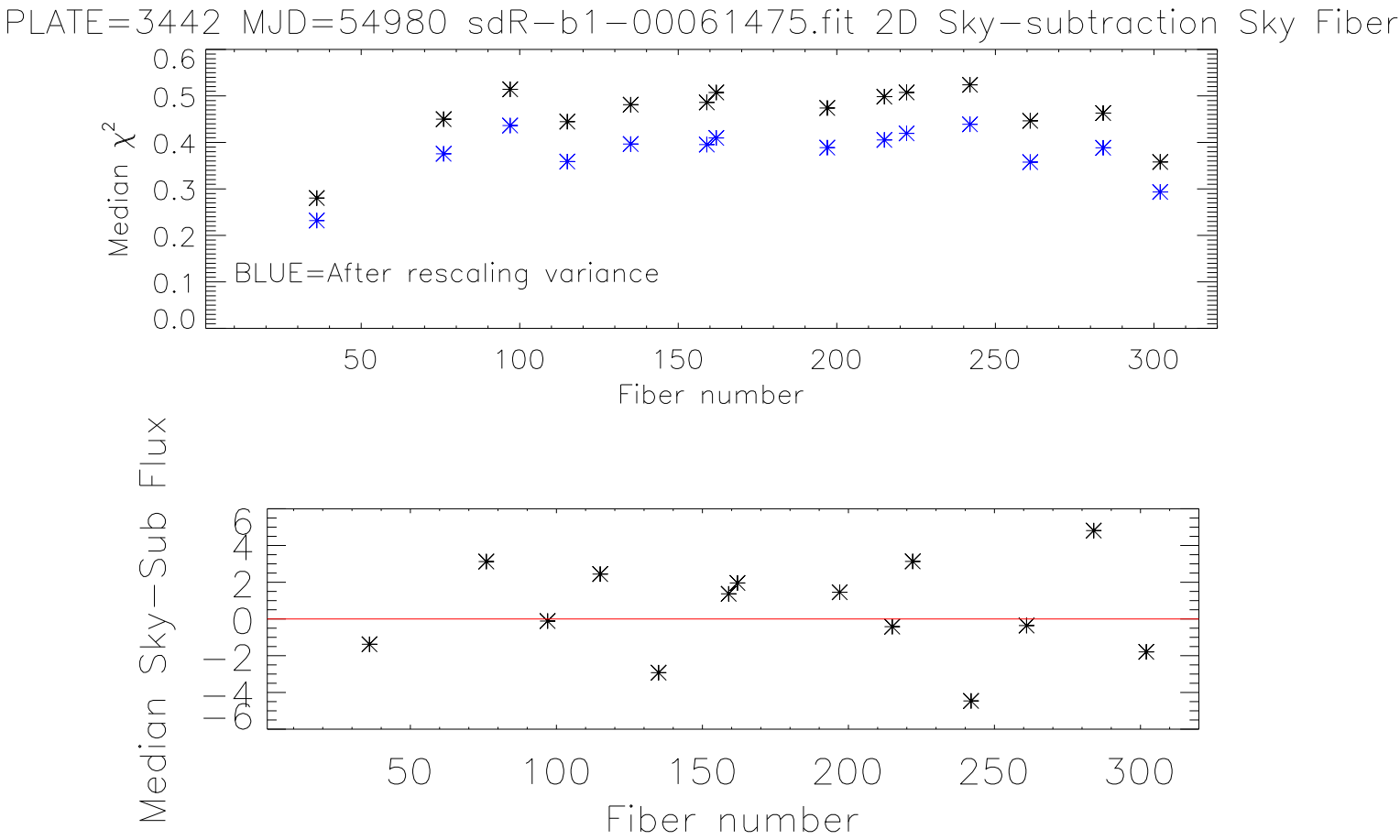

PLATE=3442 MJD=54980 Smooth superflat for sdR-b1-00061475.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

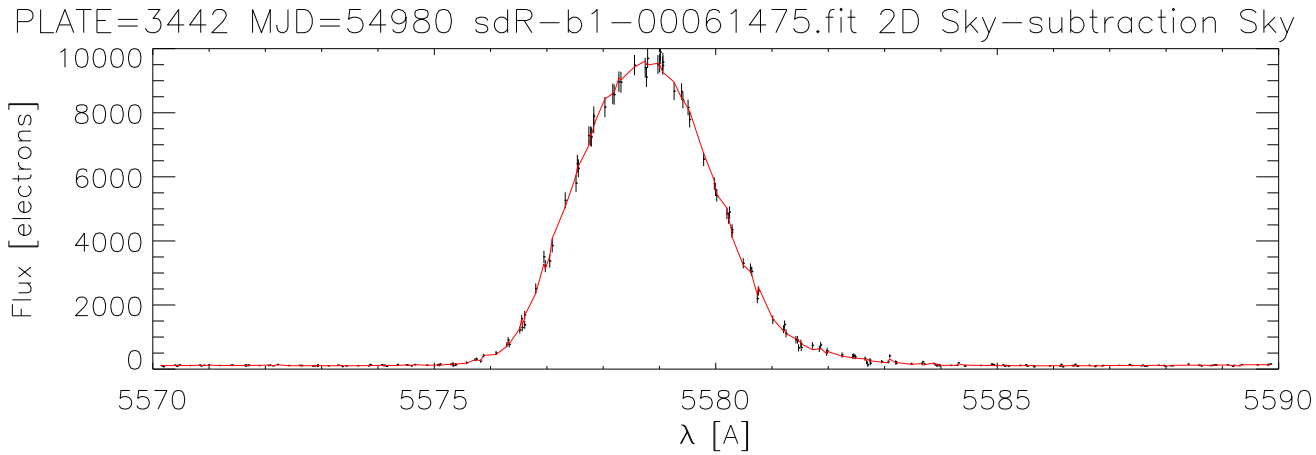

PLATE=3442 MJD=54980 sdR-b1-00061475.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

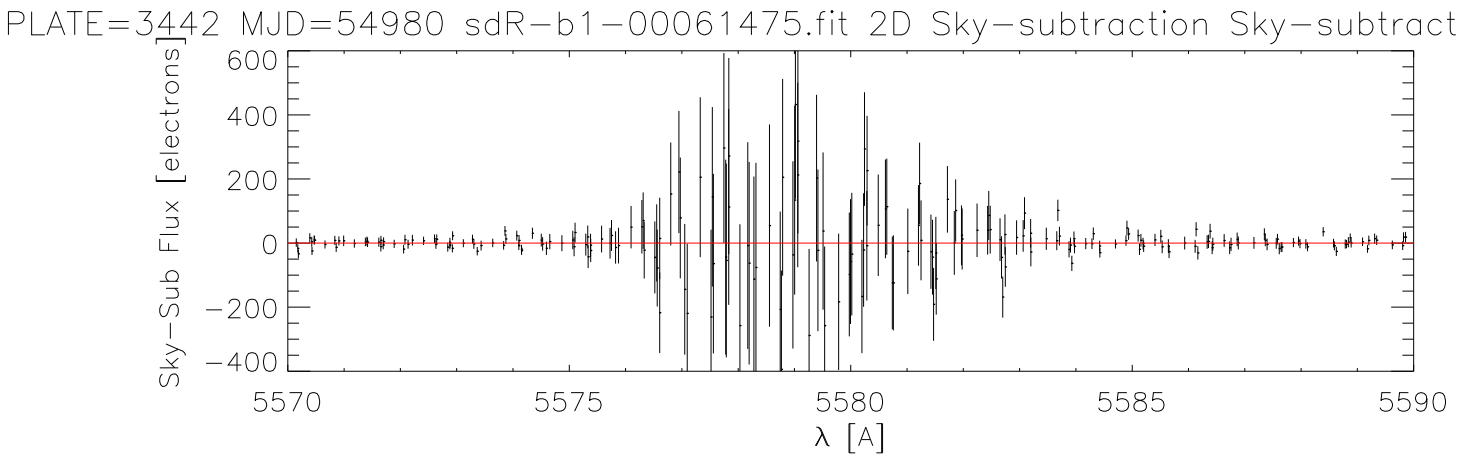

PLATE=3442 MJD=54980 sdR-b1-00061475.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

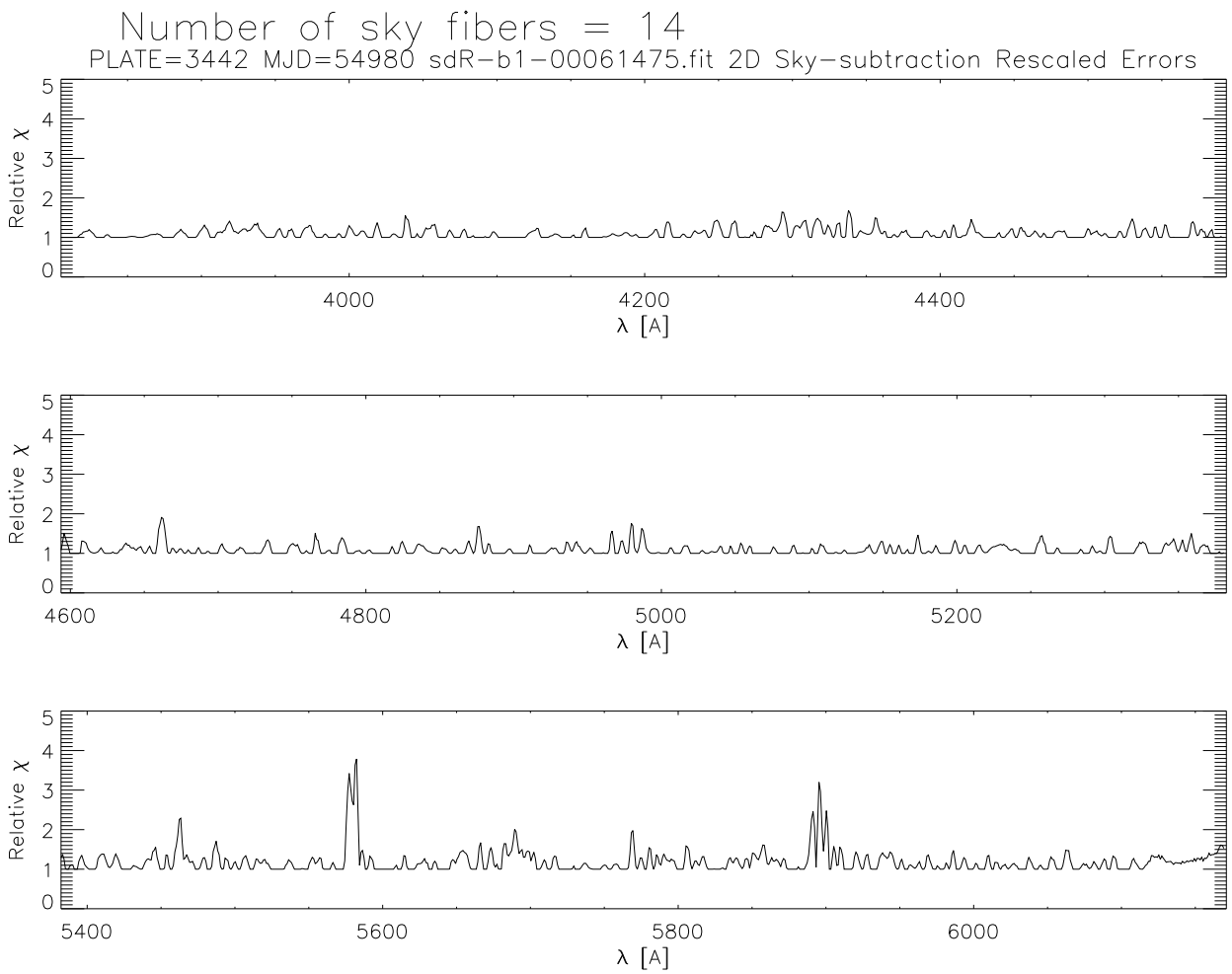

PLATE=3442 MJD=54980 sdR-b1-00061475.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

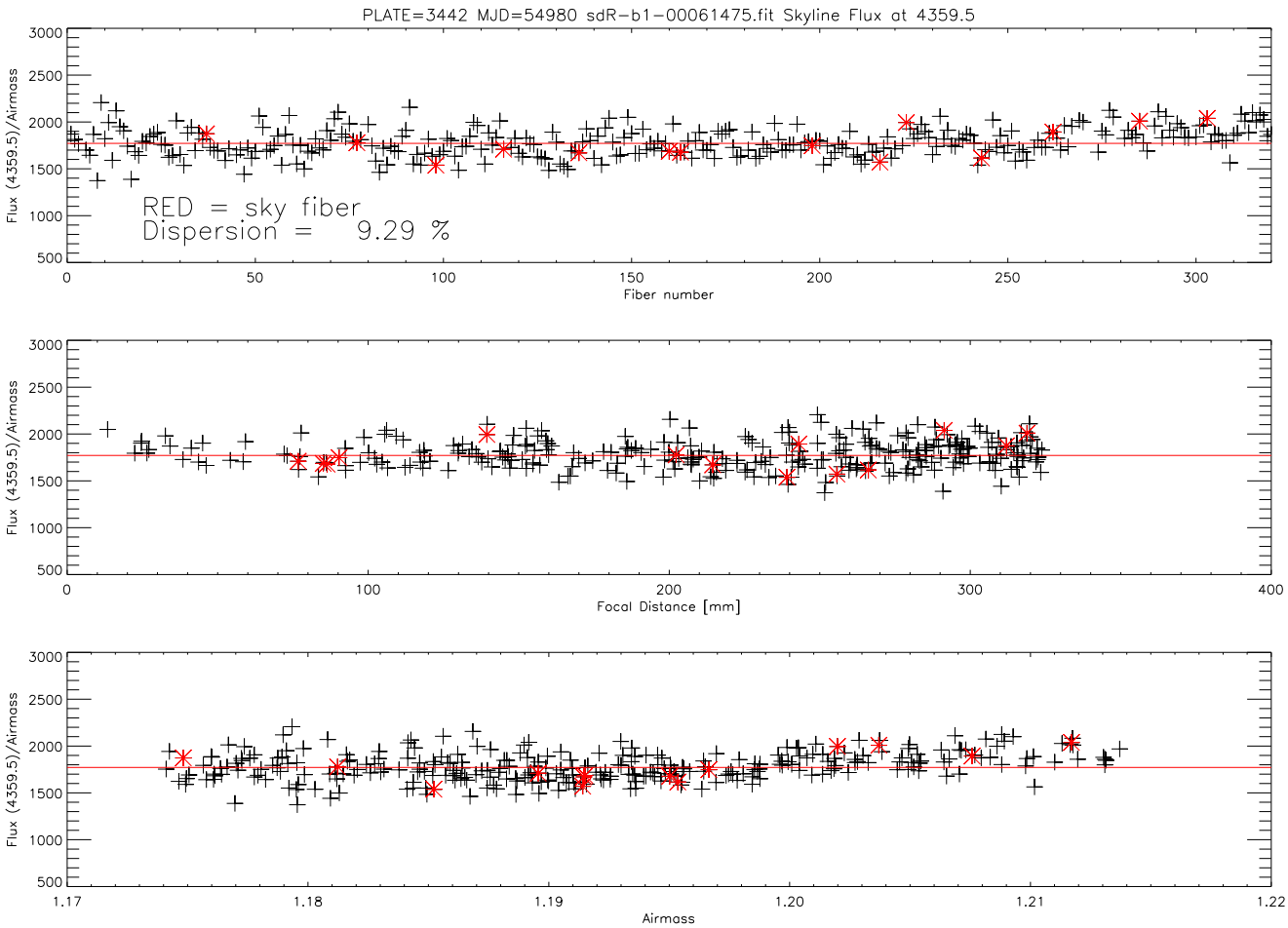

Number of sky fibers = 14
PLATE=3442 MJD=54980 sdR-b1-00061475.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

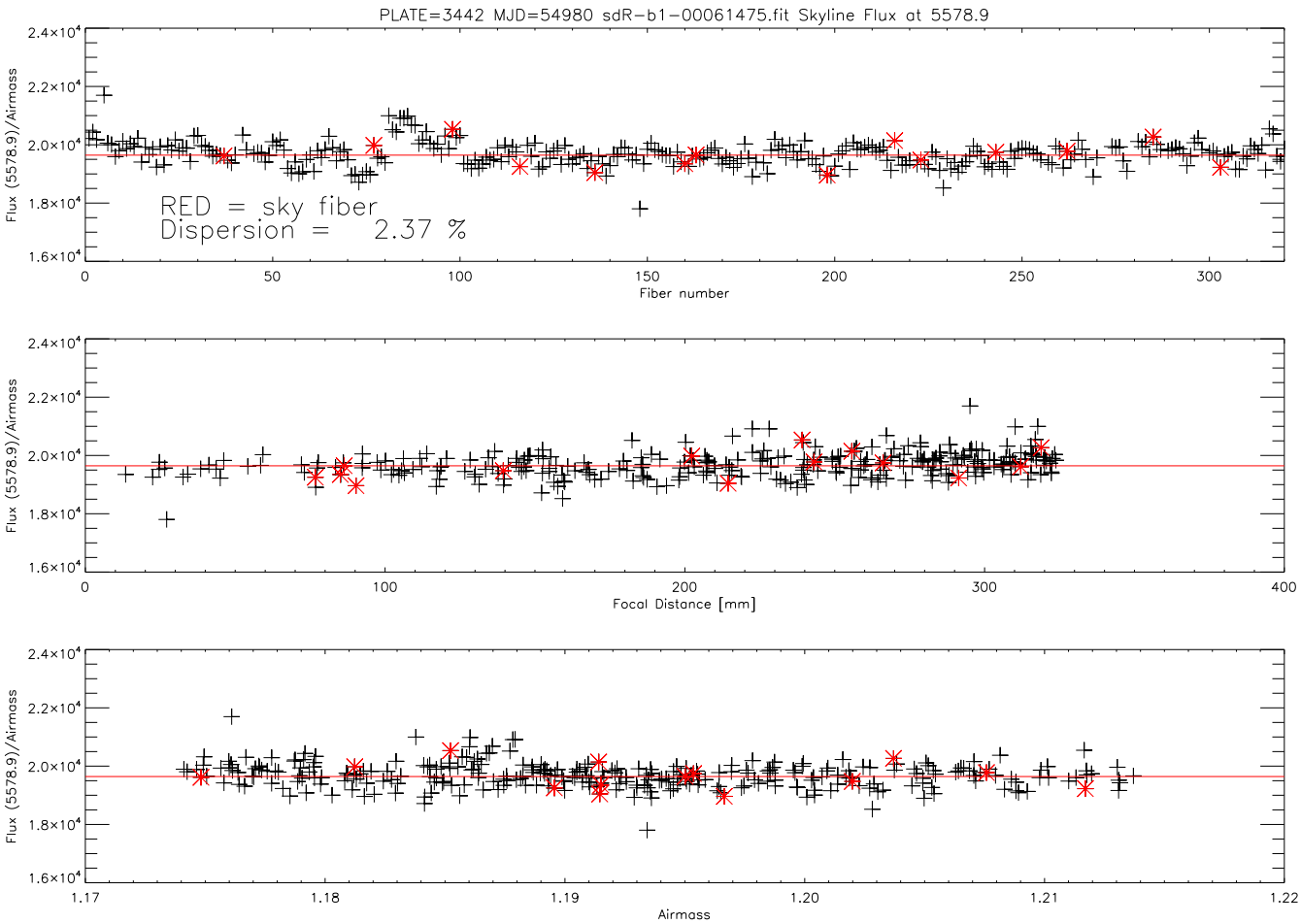

PLATE=3442 MJD=54980 sdR-b1-00061475.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

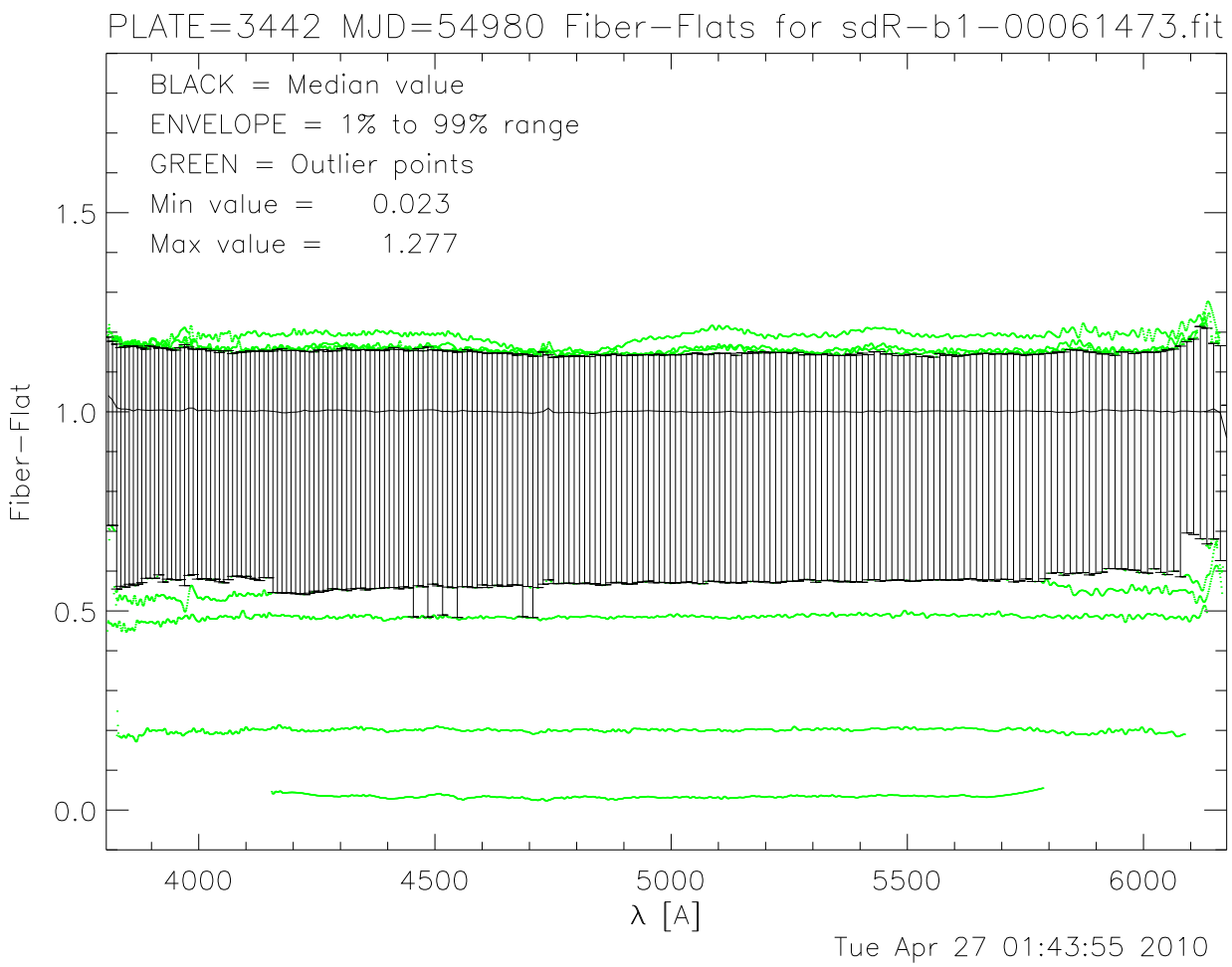

PLATE=3442 MJD=54980 sdR-b1-00061475.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

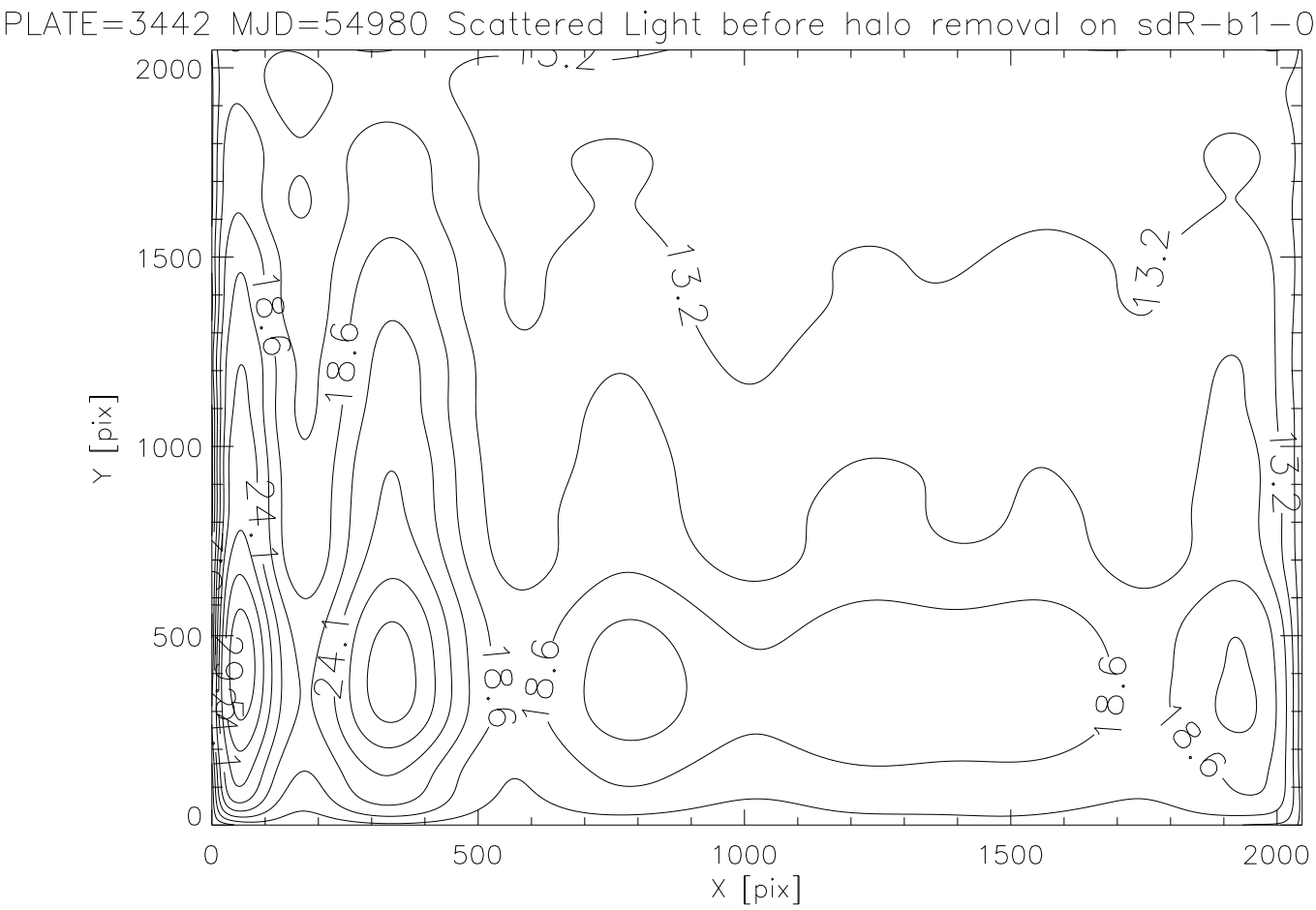

PLATE=3442 MJD=54980 sdR-b1-00061475.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

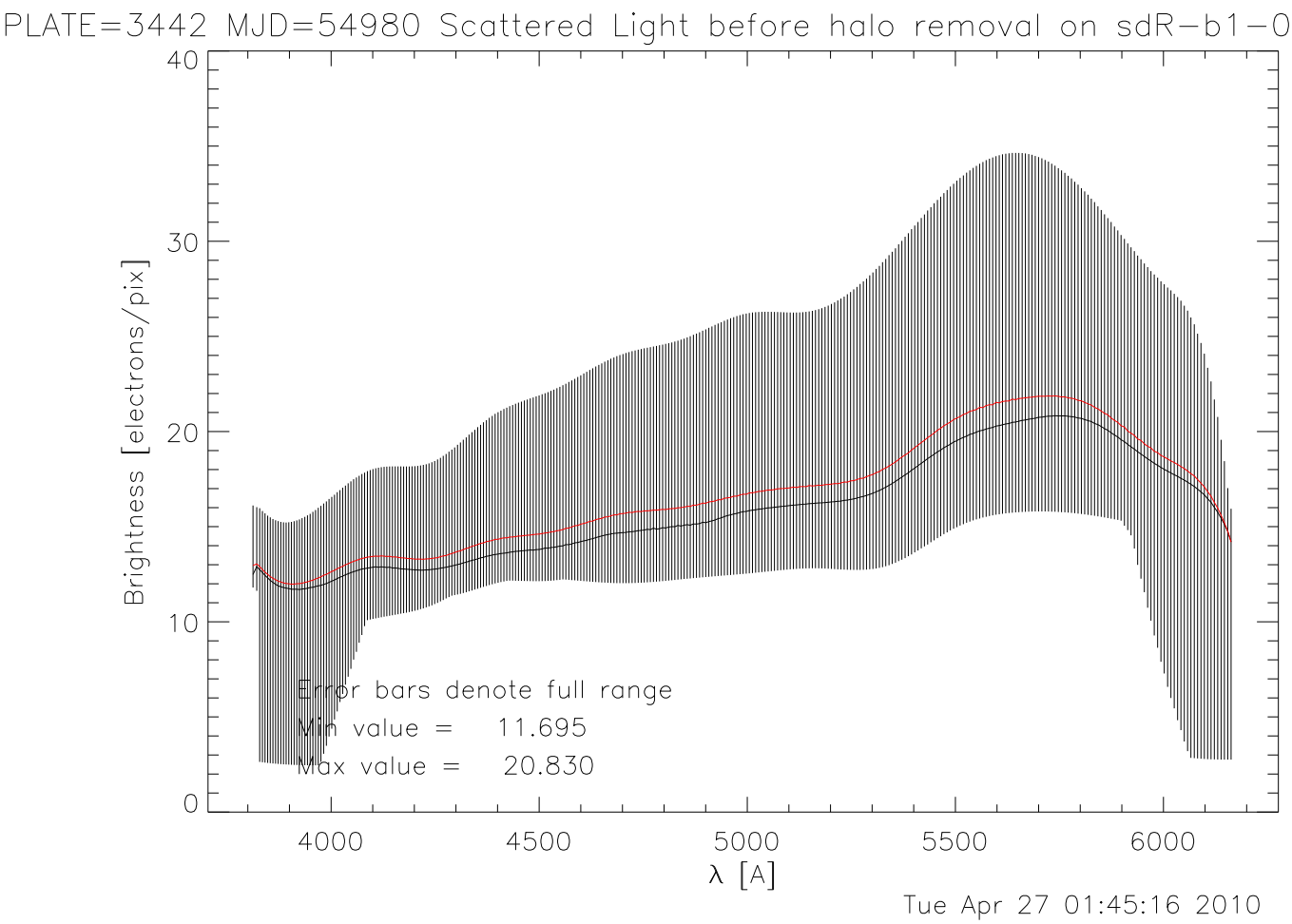

Number of sky fibers = 14
PLATE=3442 MJD=54980 sdR-b1-00061475.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

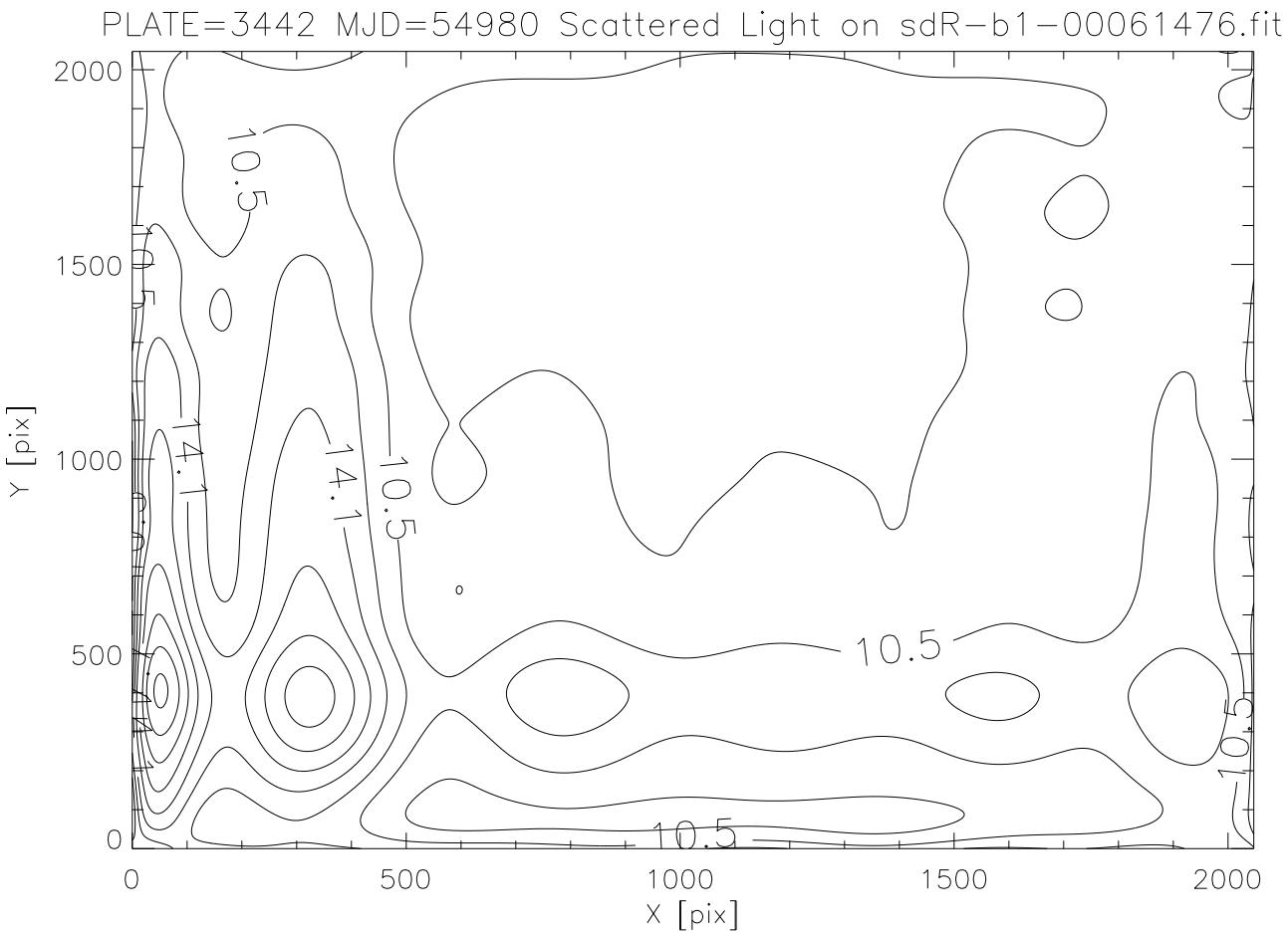

PLATE=3442 MJD=54980 sdR-b1-00061475.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.29 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

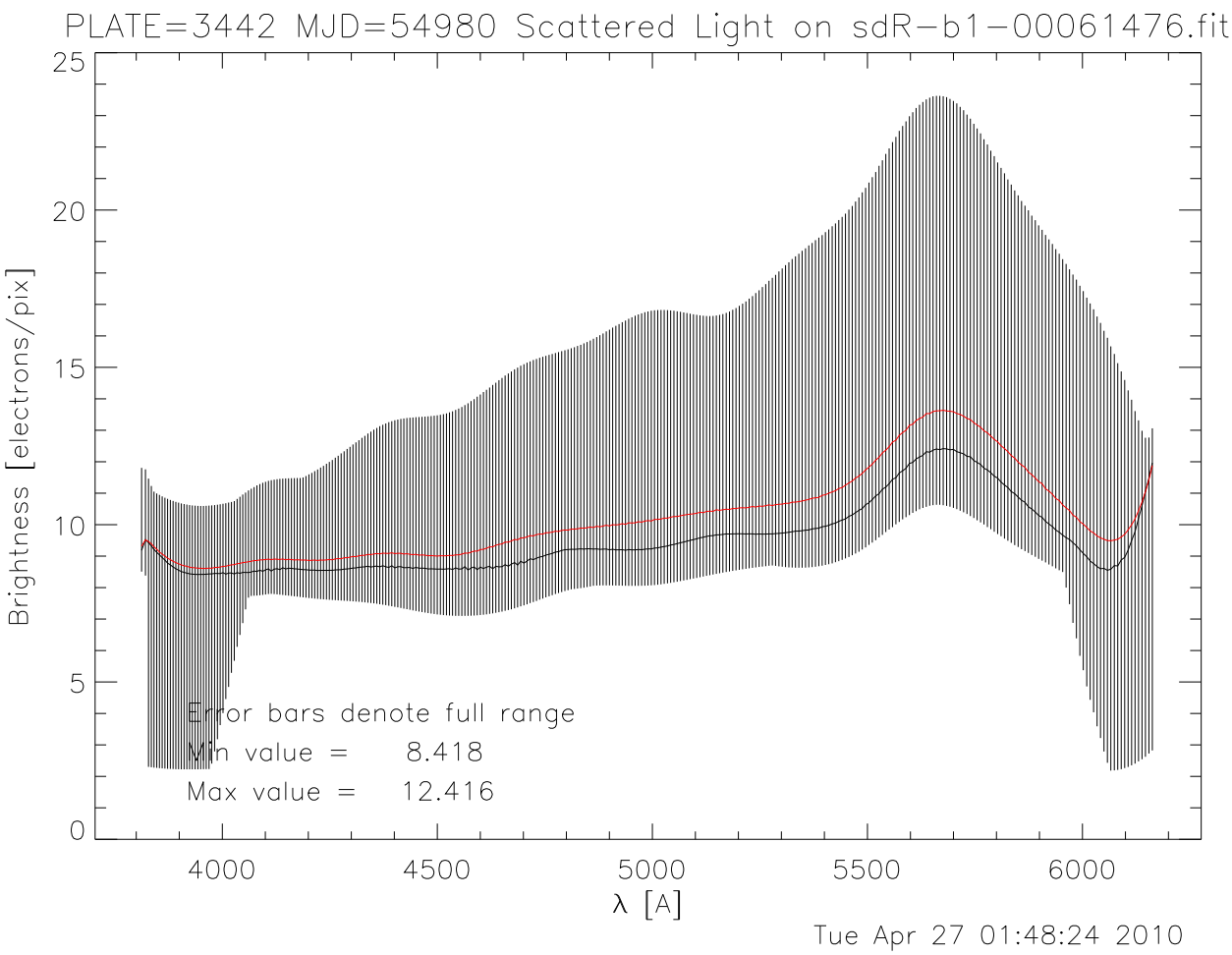

PLATE=3442 MJD=54980 sdR-b1-00061475.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.37 %
Fiber number
Focal Distance [mm]
Airmass

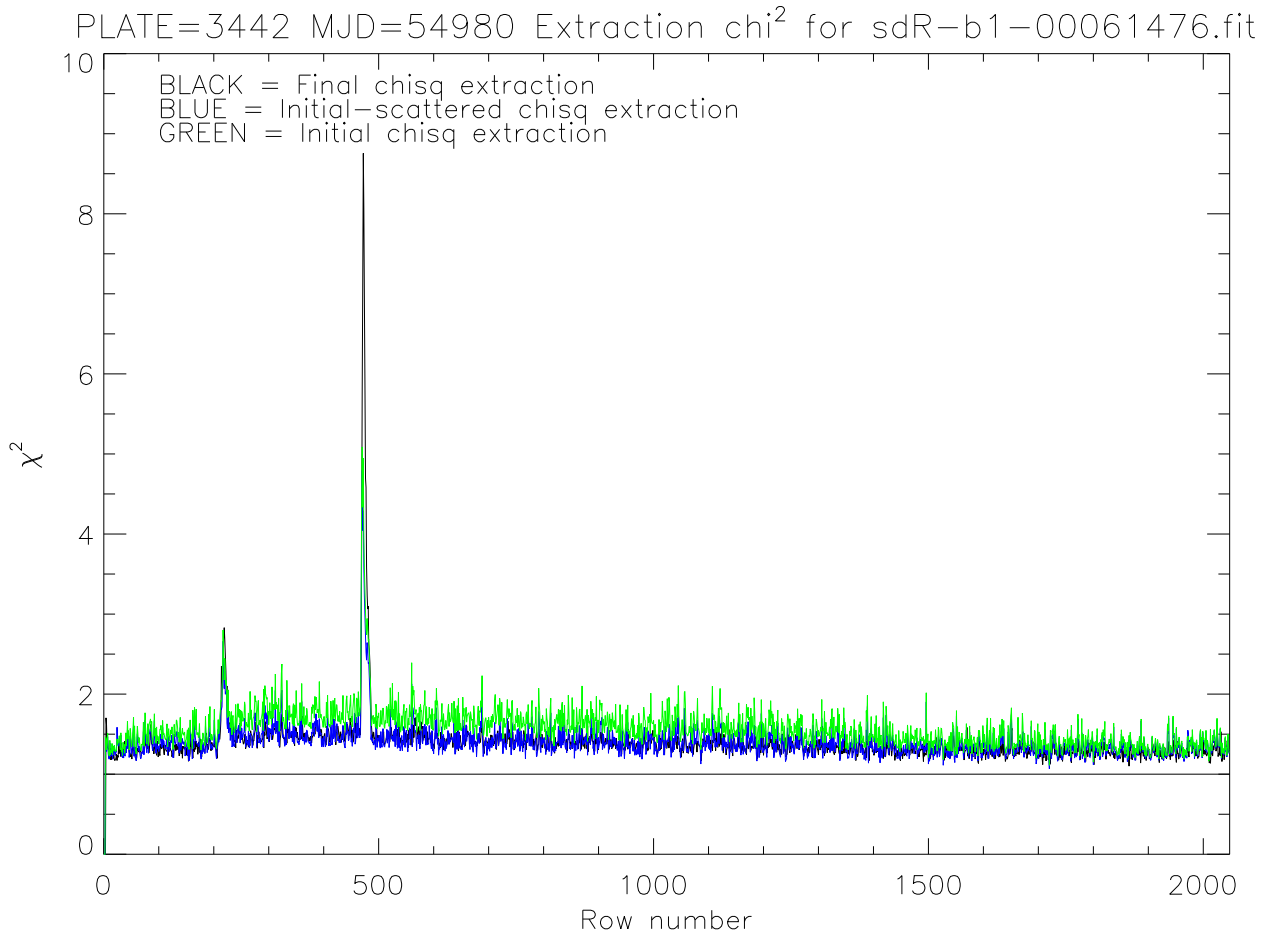

PLATE=3442 MJD=54980 Fiber−Flats for sdR−b1−00061473.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.023
Max value = 1.277
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Apr 27 01:43:55 2010

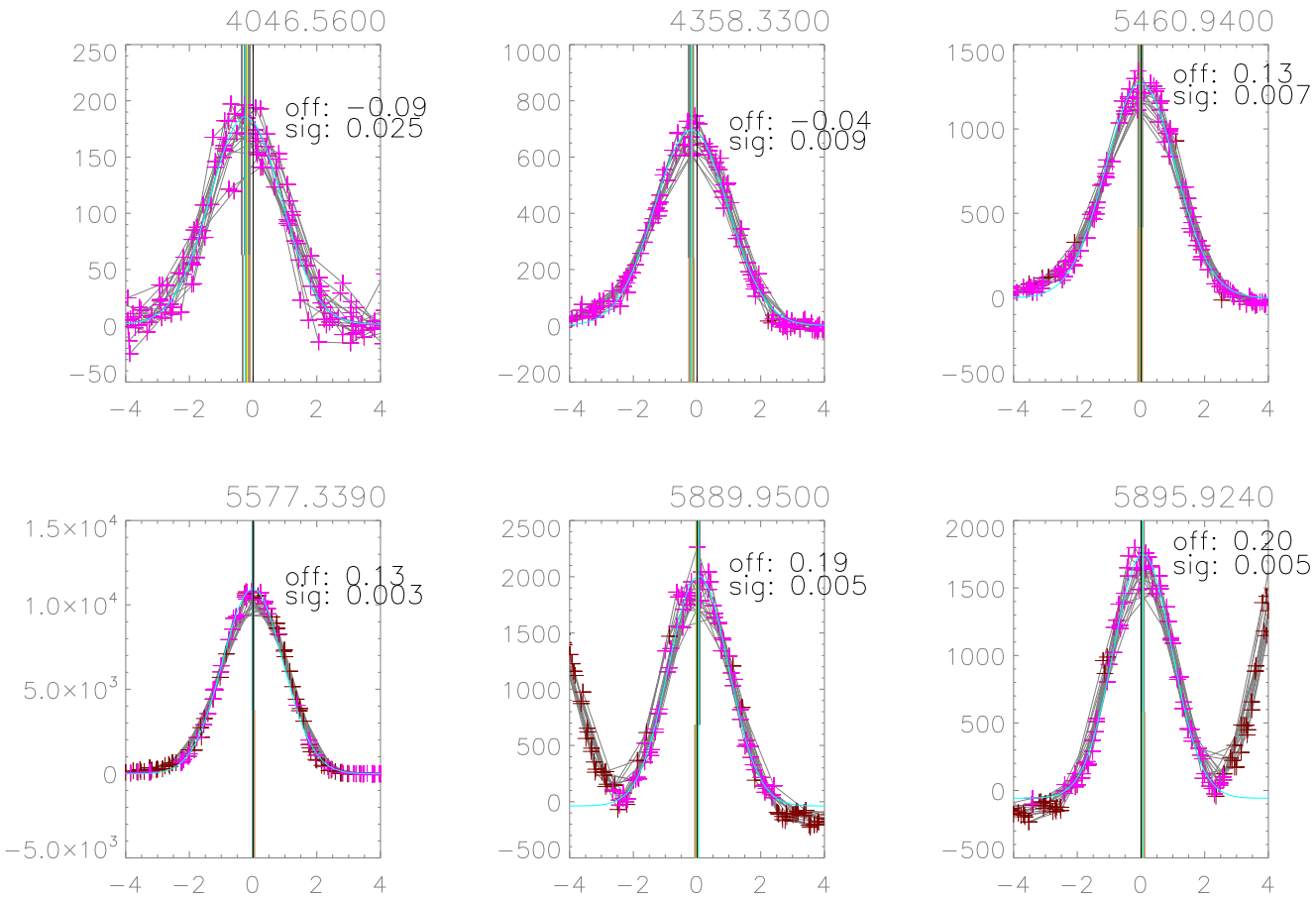

PLATE=3442 MJD=54980 Scattered Light before halo removal on sdR−b1−00061476.f
13.2
18.6
24.1
29.5
Y [pix]
X [pix]
0
500
1000
1500
2000

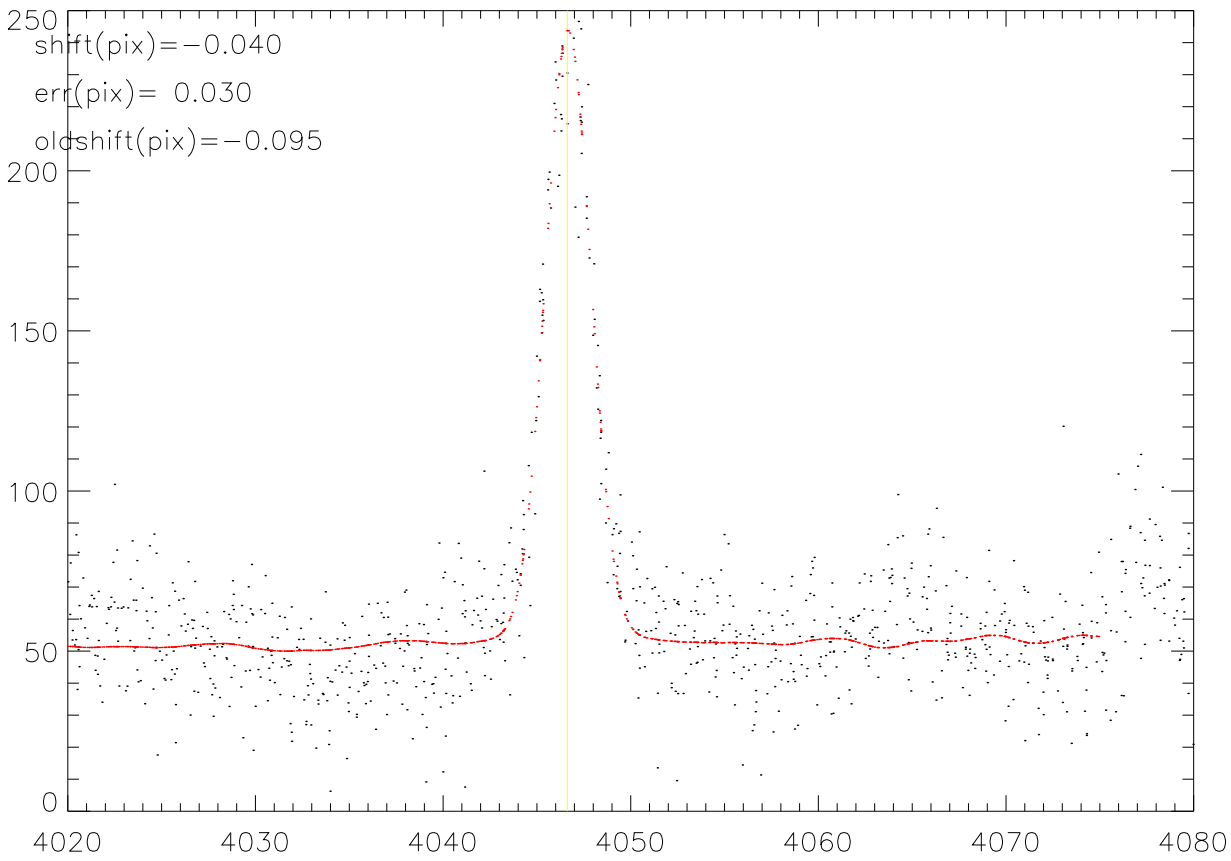

PLATE=3442 MJD=54980 Scattered Light before halo removal on sdR-b1-00061476.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 11.695
Max value = 20.830
Tue Apr 27 01:45:16 2010

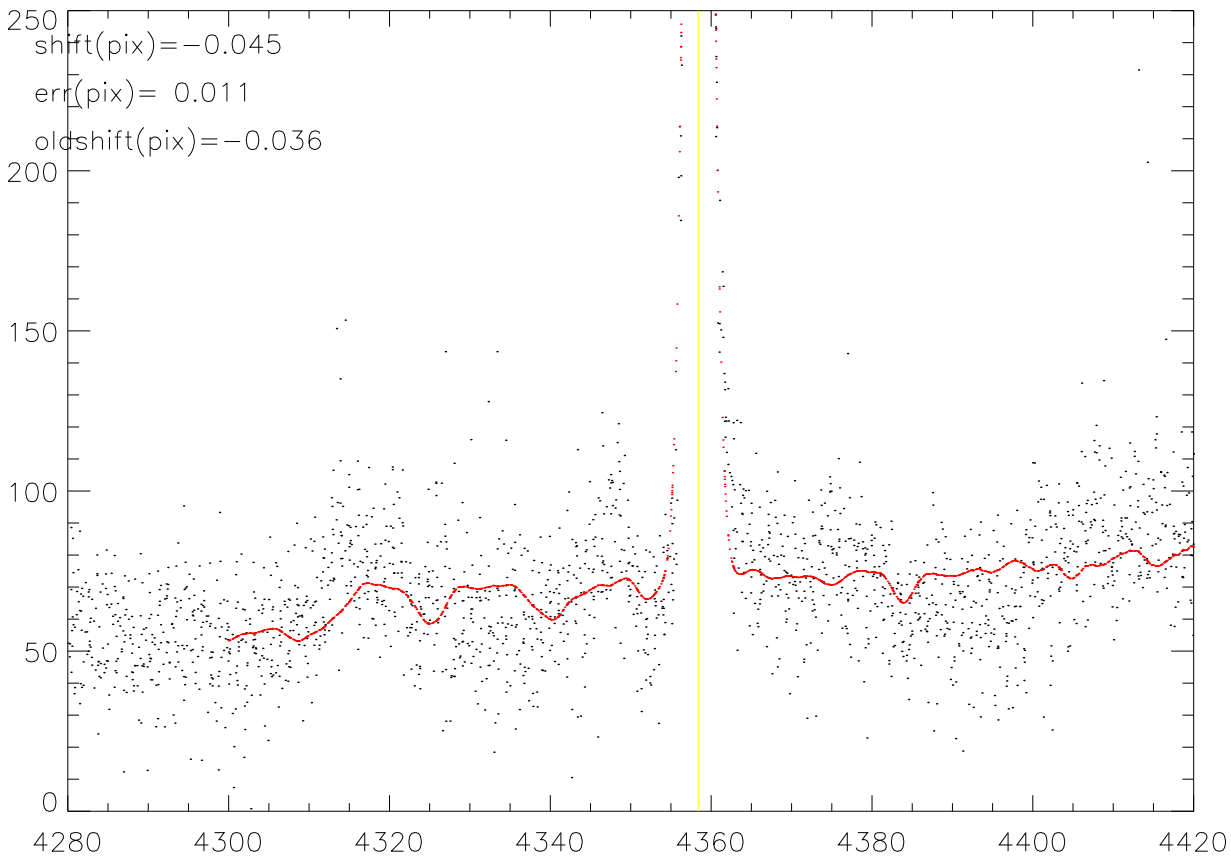

PLATE=3442 MJD=54980 Scattered Light on sdR-b1-00061476.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.5
14.1

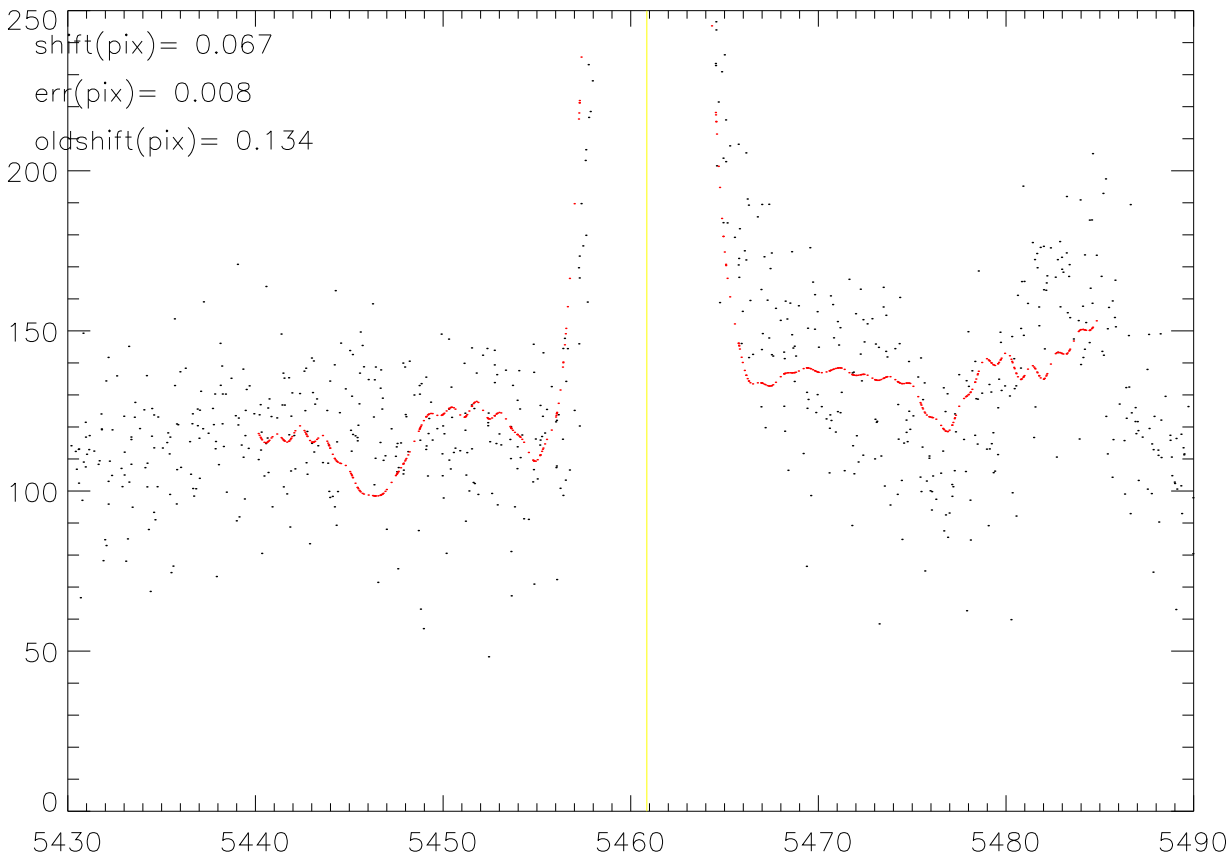

PLATE=3442 MJD=54980 Scattered Light on sdR-b1-00061476.fit
Brightness [electrons/pix]
25
20
15
10
5
0
Error bars denote full range
Min value = 8.418
Max value = 12.416
4000
4500
5000
5500
6000
λ [A]
Tue Apr 27 01:48:24 2010

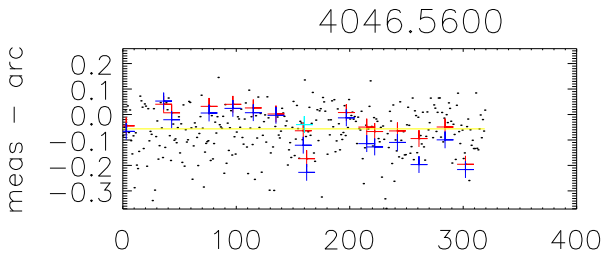

PLATE=3442 MJD=54980 Extraction chi^2 for sdR-b1-00061476.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

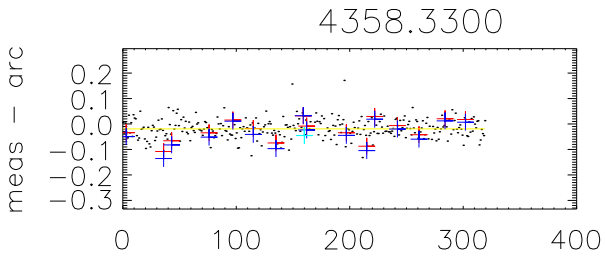

4046.5600
off: −0.09
sig: 0.025
4358.3300
off: −0.04
sig: 0.009
5460.9400
off: 0.13
sig: 0.007
5577.3390
off: 0.13
sig: 0.003
5889.9500
off: 0.19
sig: 0.005
5895.9240
off: 0.20
sig: 0.005

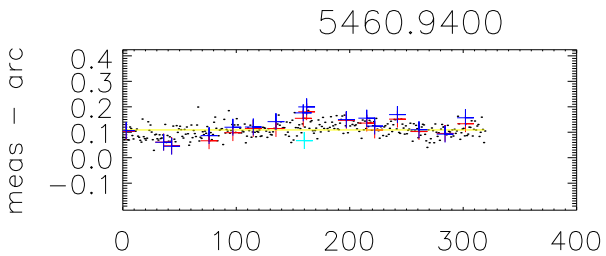

shift(pix)=−0.040
err(pix)= 0.030
oldshift(pix)=−0.095
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

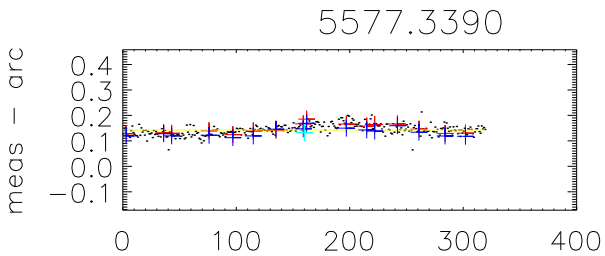

shift(pix)=−0.045
err(pix)= 0.011
oldshift(pix)=−0.036
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

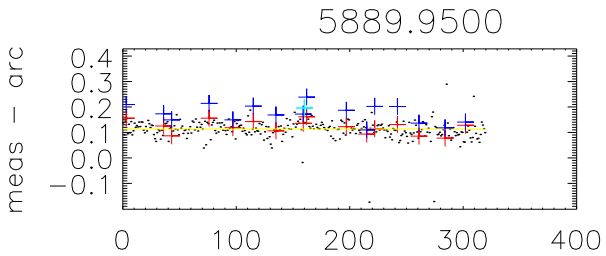

shift(pix)= 0.067
err(pix)= 0.008
oldshift(pix)= 0.134
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

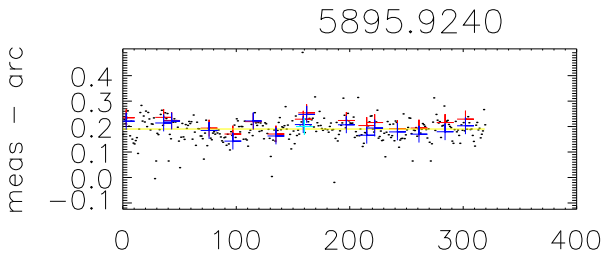

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

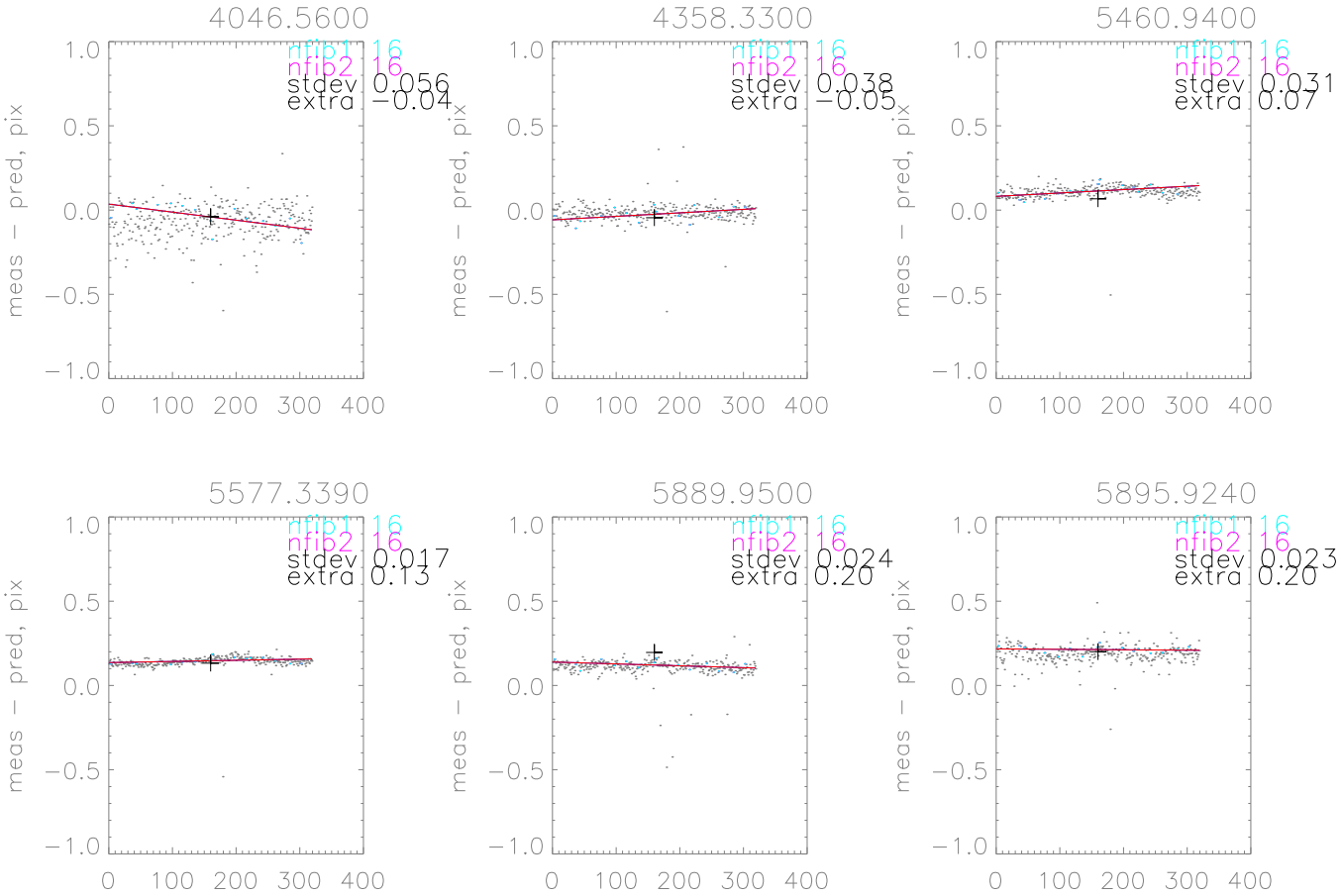

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

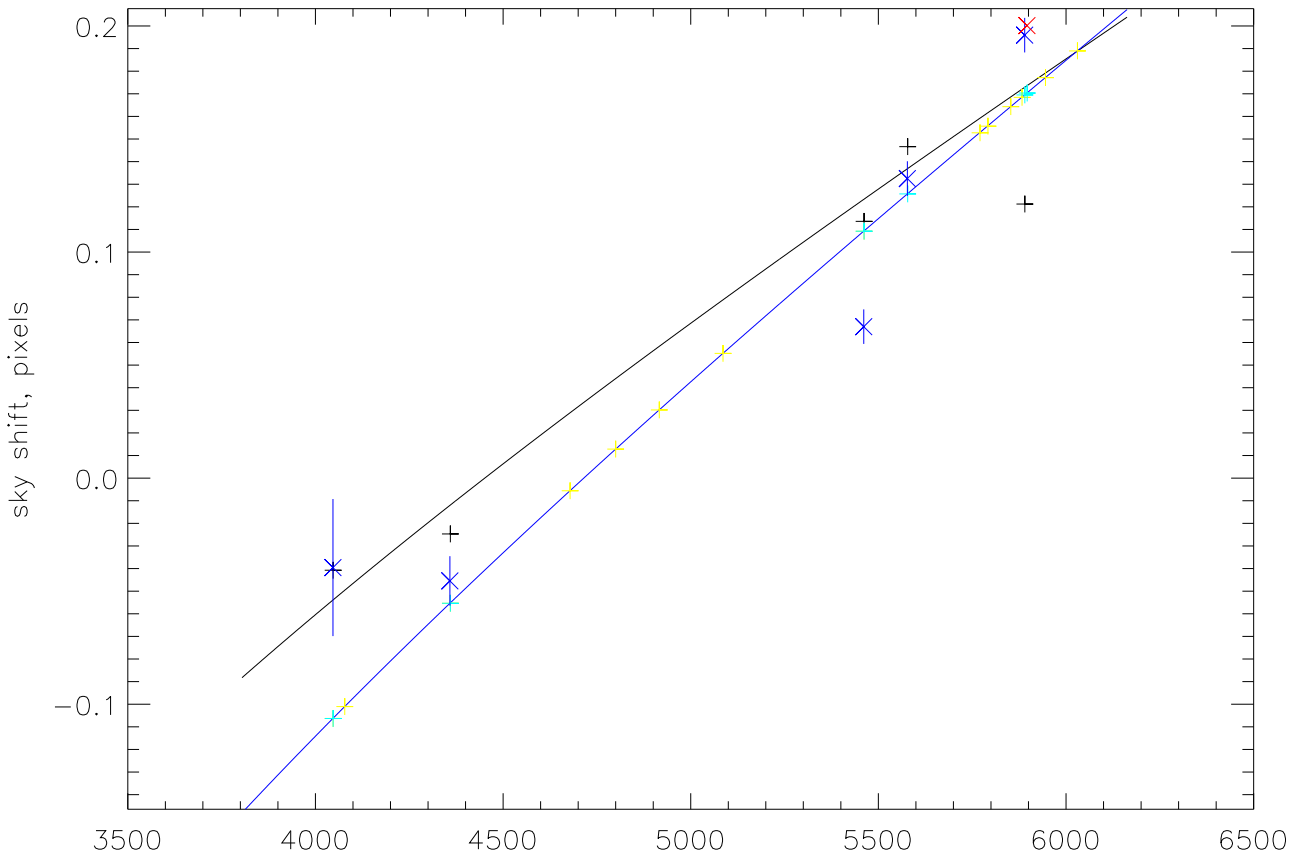

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

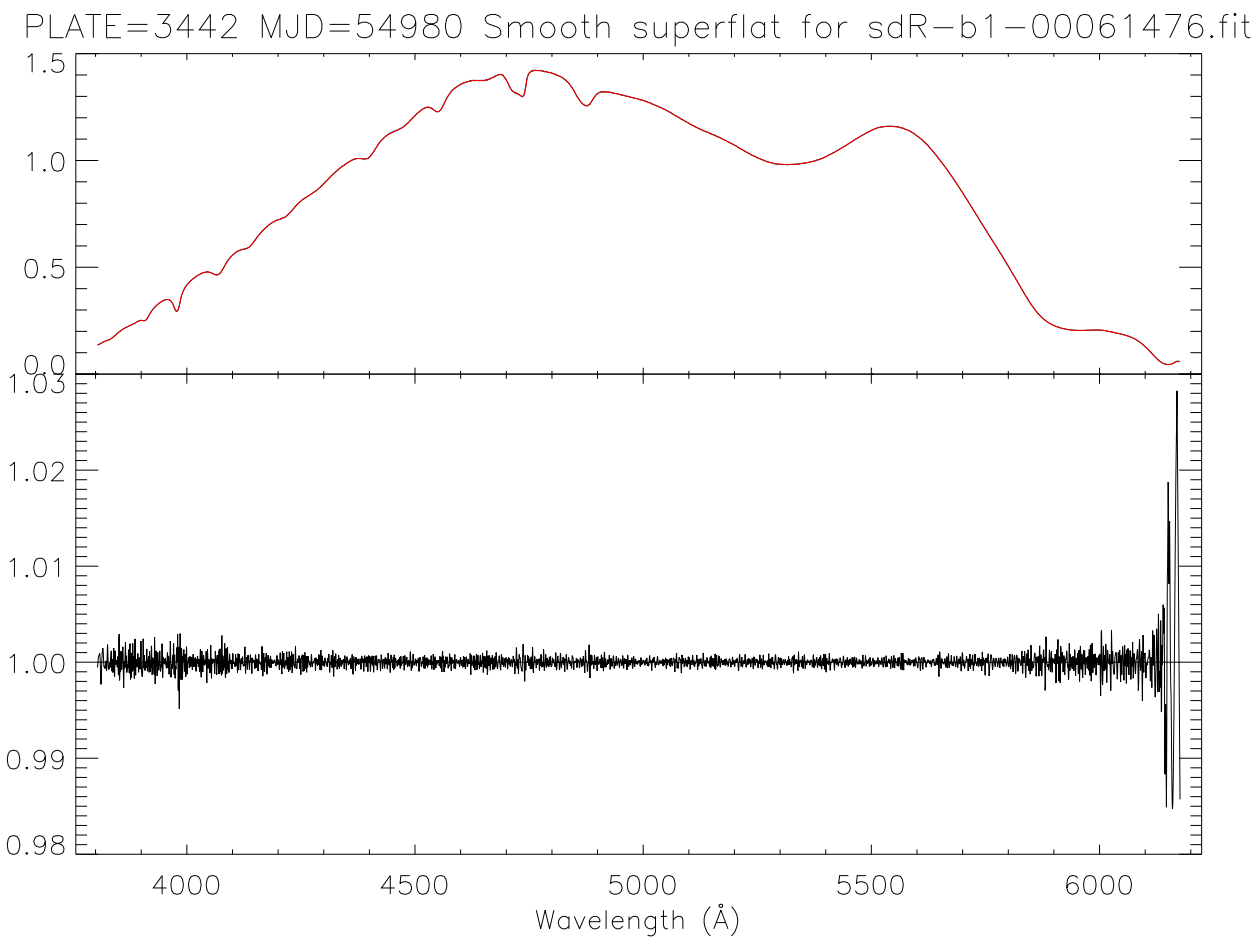

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

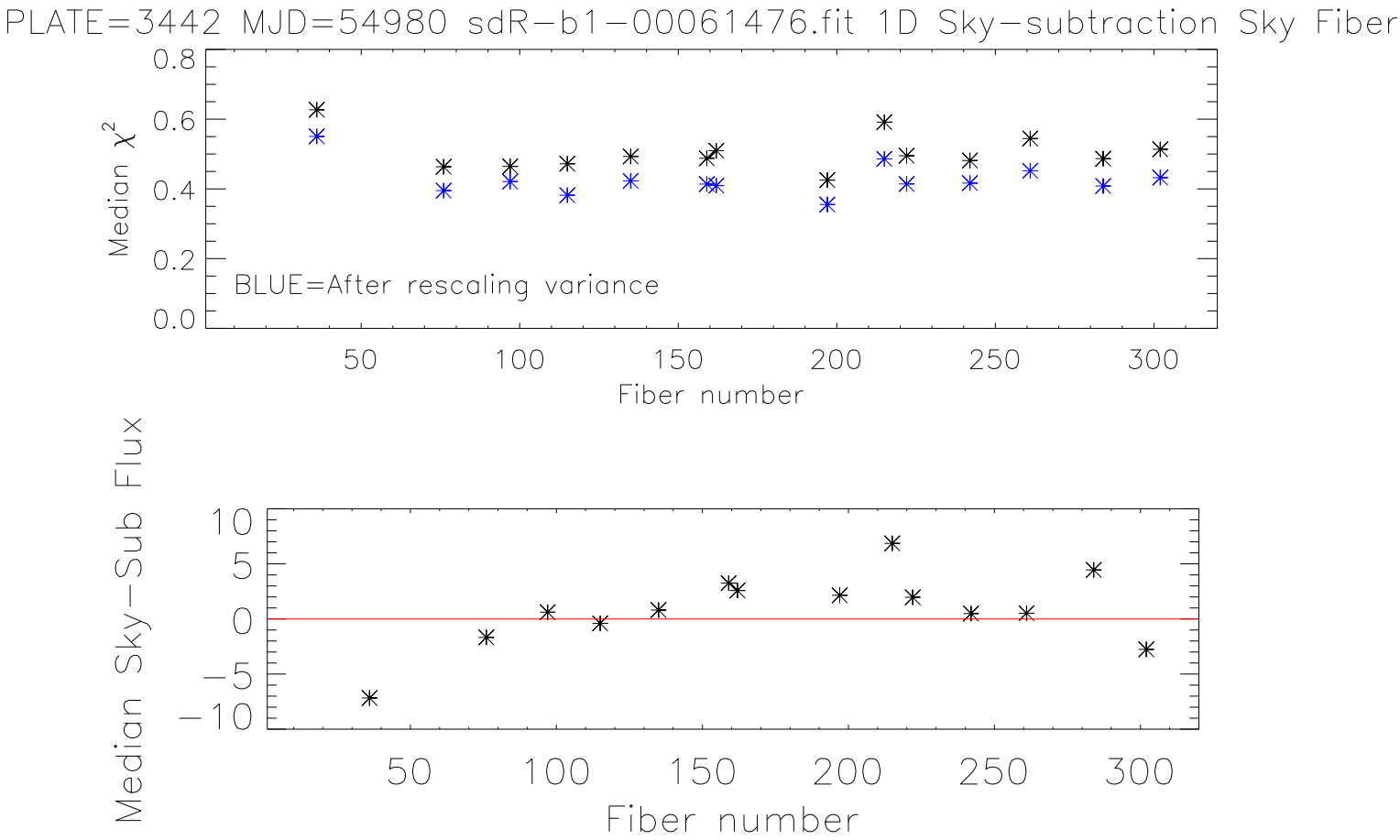

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

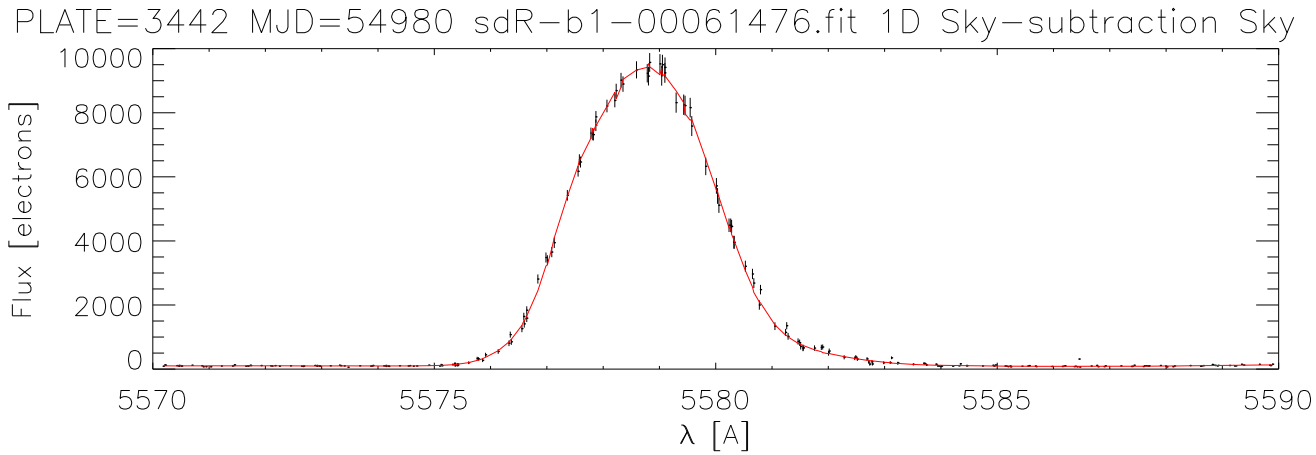

4046.5600
nfib1 16
nfib2 16
stdev 0.056
extra −0.04
4358.3300
nfib1 16
nfib2 16
stdev 0.038
extra −0.05
5460.9400
nfib1 16
nfib2 16
stdev 0.031
extra 0.07
5577.3390
nfib1 16
nfib2 16
stdev 0.017
extra 0.13
5889.9500
nfib1 16
nfib2 16
stdev 0.024
extra 0.20
5895.9240
nfib1 16
nfib2 16
stdev 0.023
extra 0.20
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

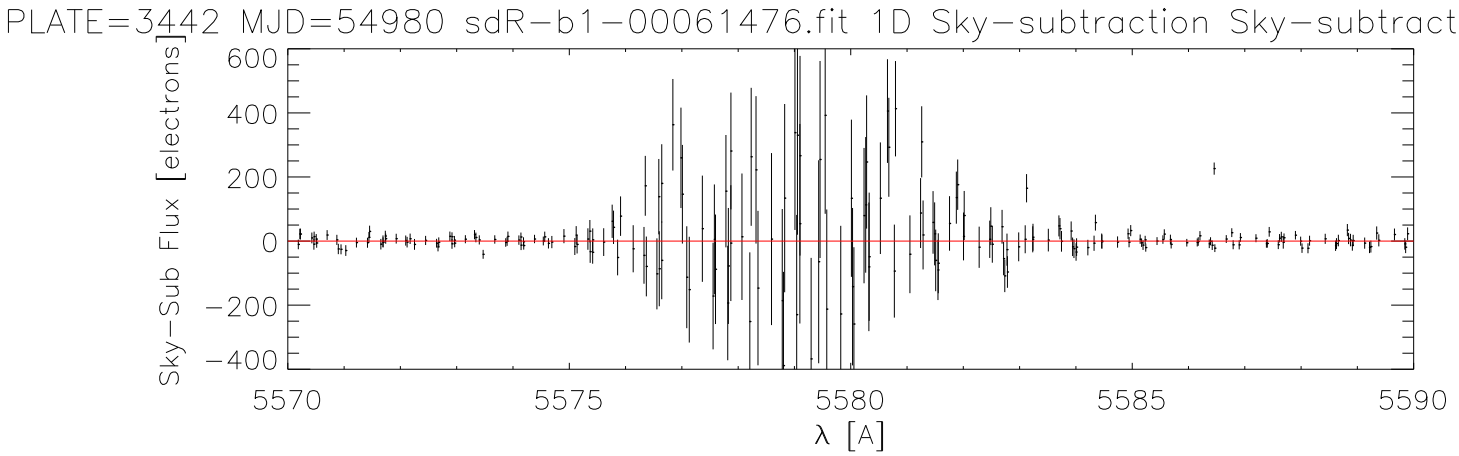

0.2
0.1
0.0
−0.1
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

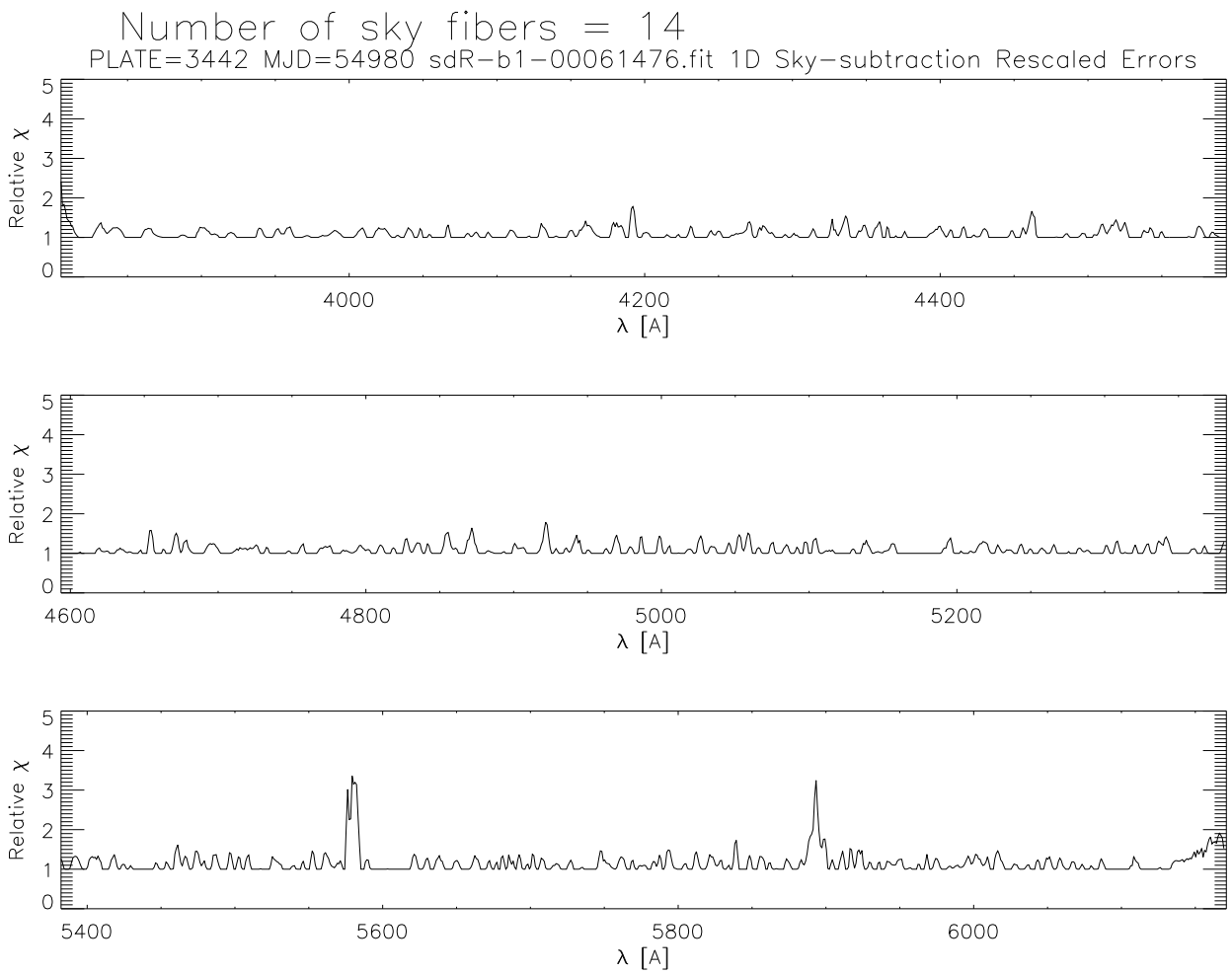
es= 0.0000

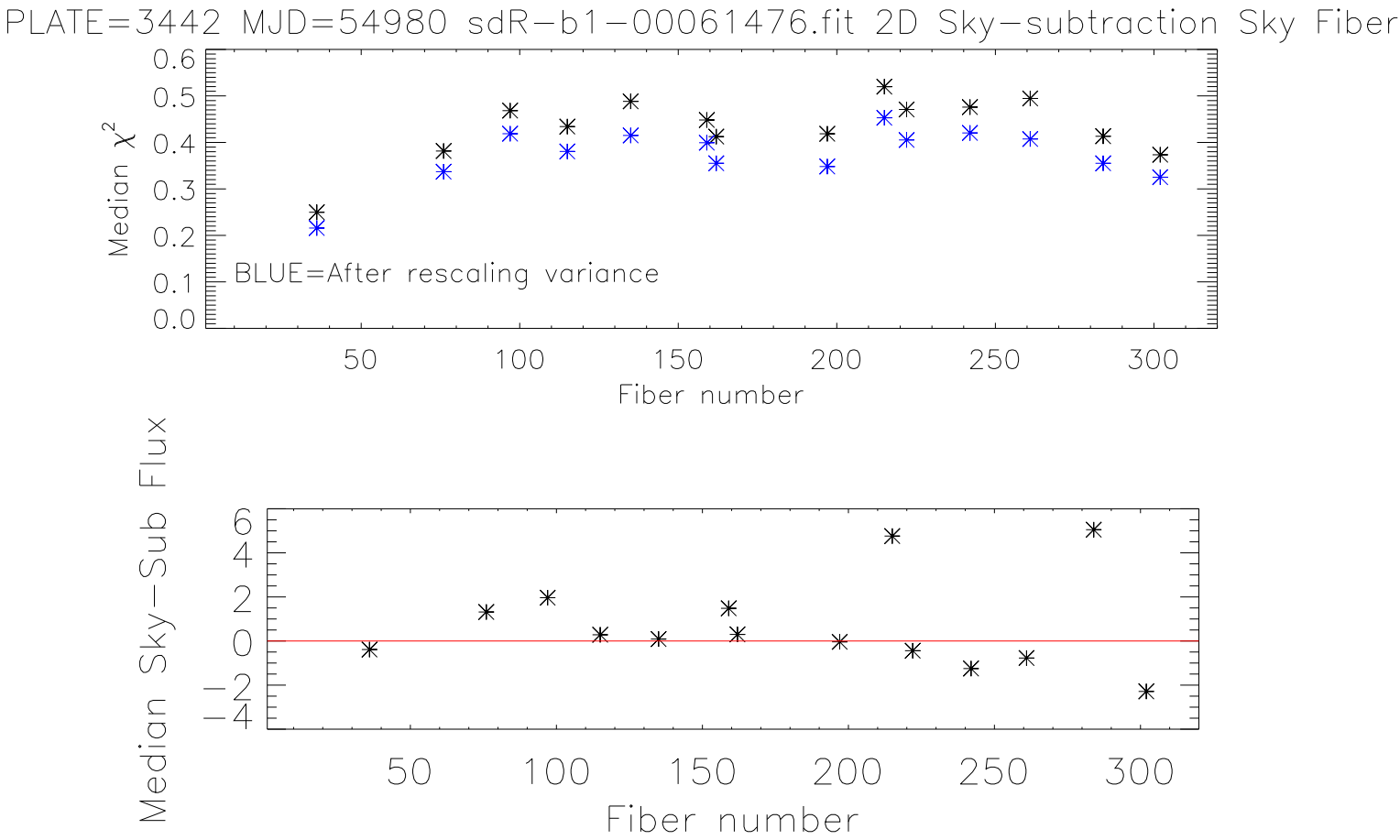

PLATE=3442 MJD=54980 Smooth superflat for sdR-b1-00061476.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

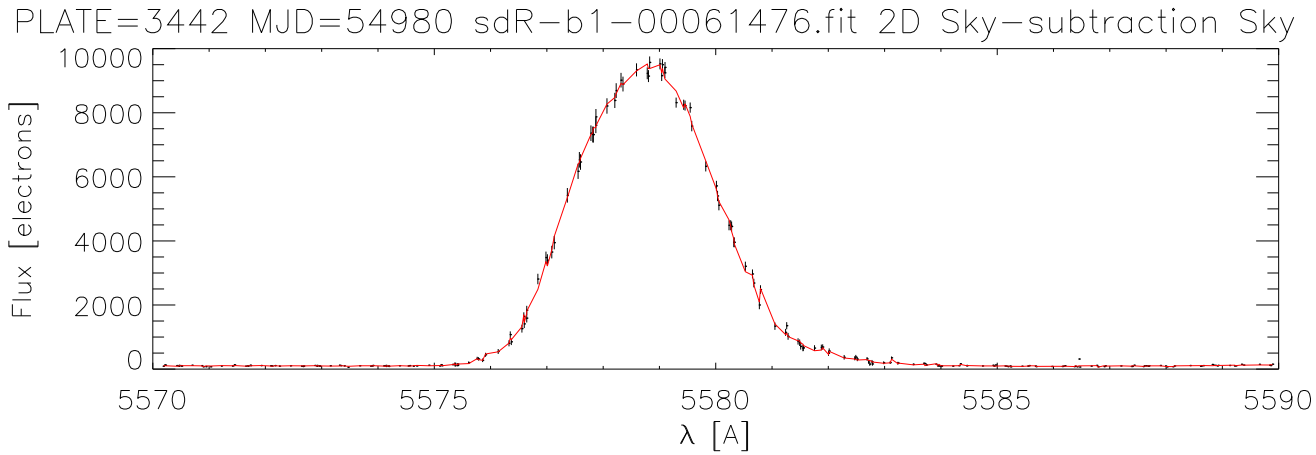

PLATE=3442 MJD=54980 sdR-b1-00061476.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

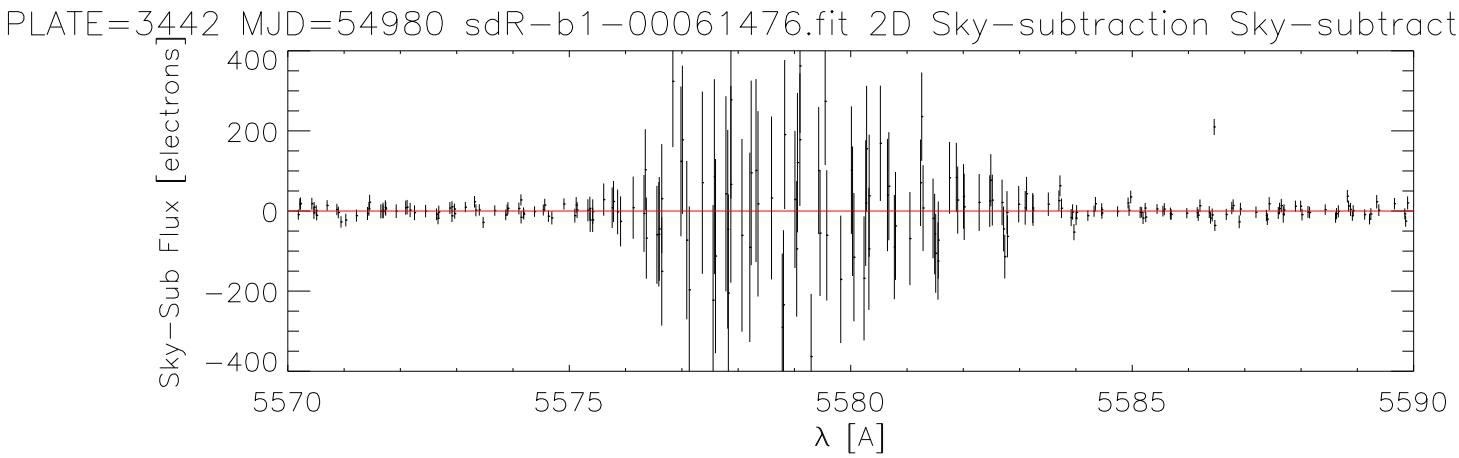

PLATE=3442 MJD=54980 sdR-b1-00061476.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

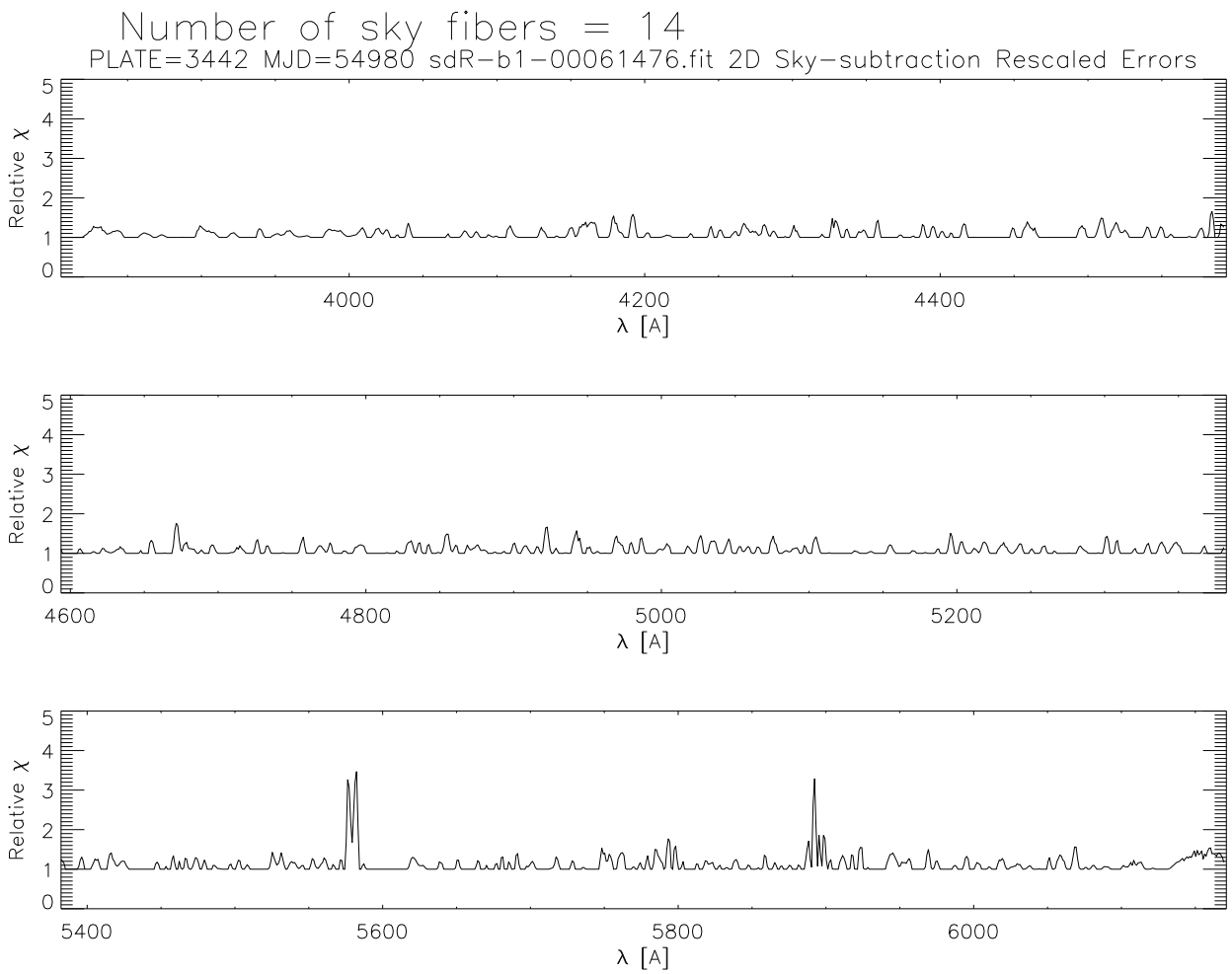

PLATE=3442 MJD=54980 sdR-b1-00061476.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

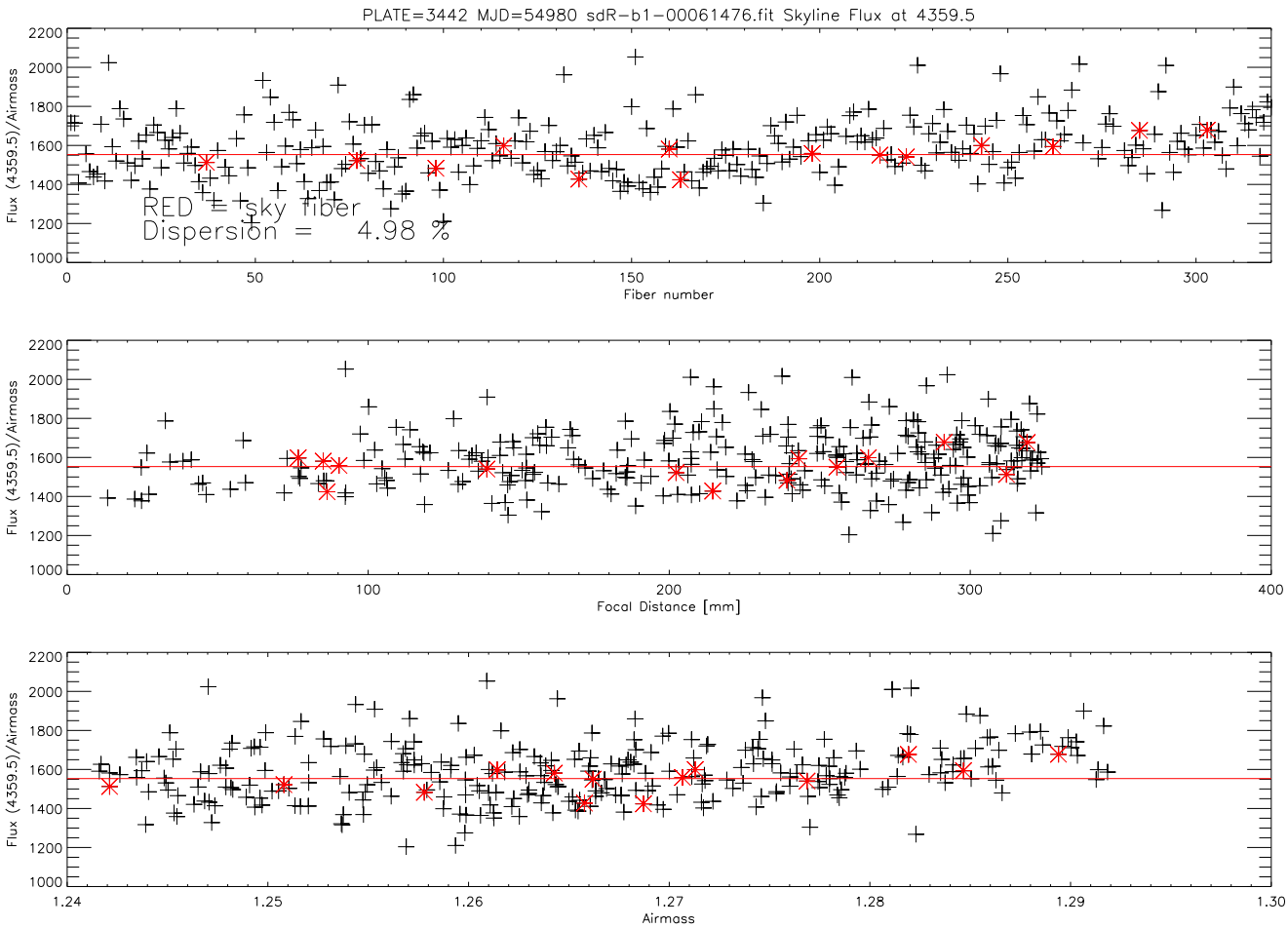

Number of sky fibers = 14
PLATE=3442 MJD=54980 sdR-b1-00061476.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

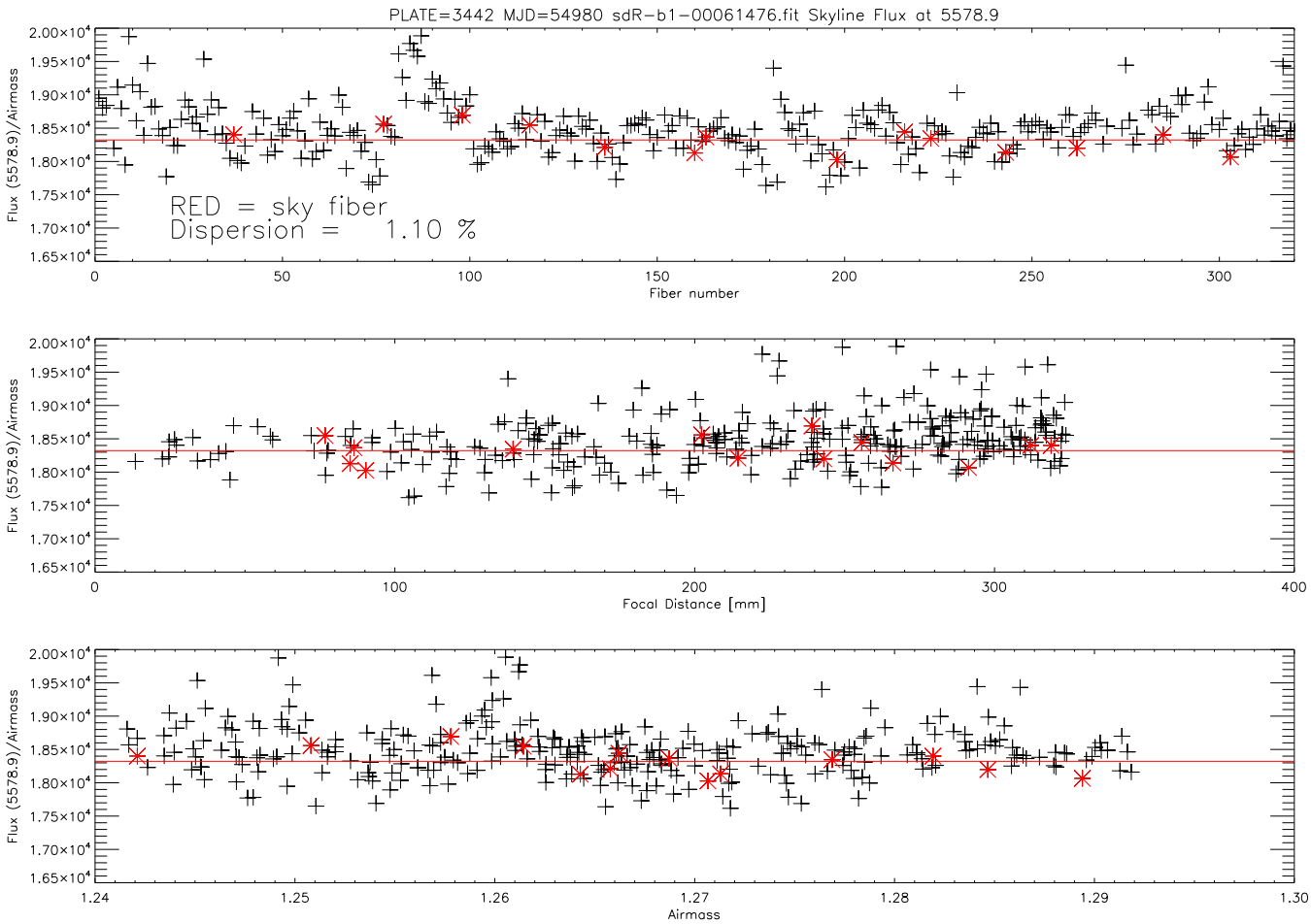

PLATE=3442 MJD=54980 sdR-b1-00061476.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

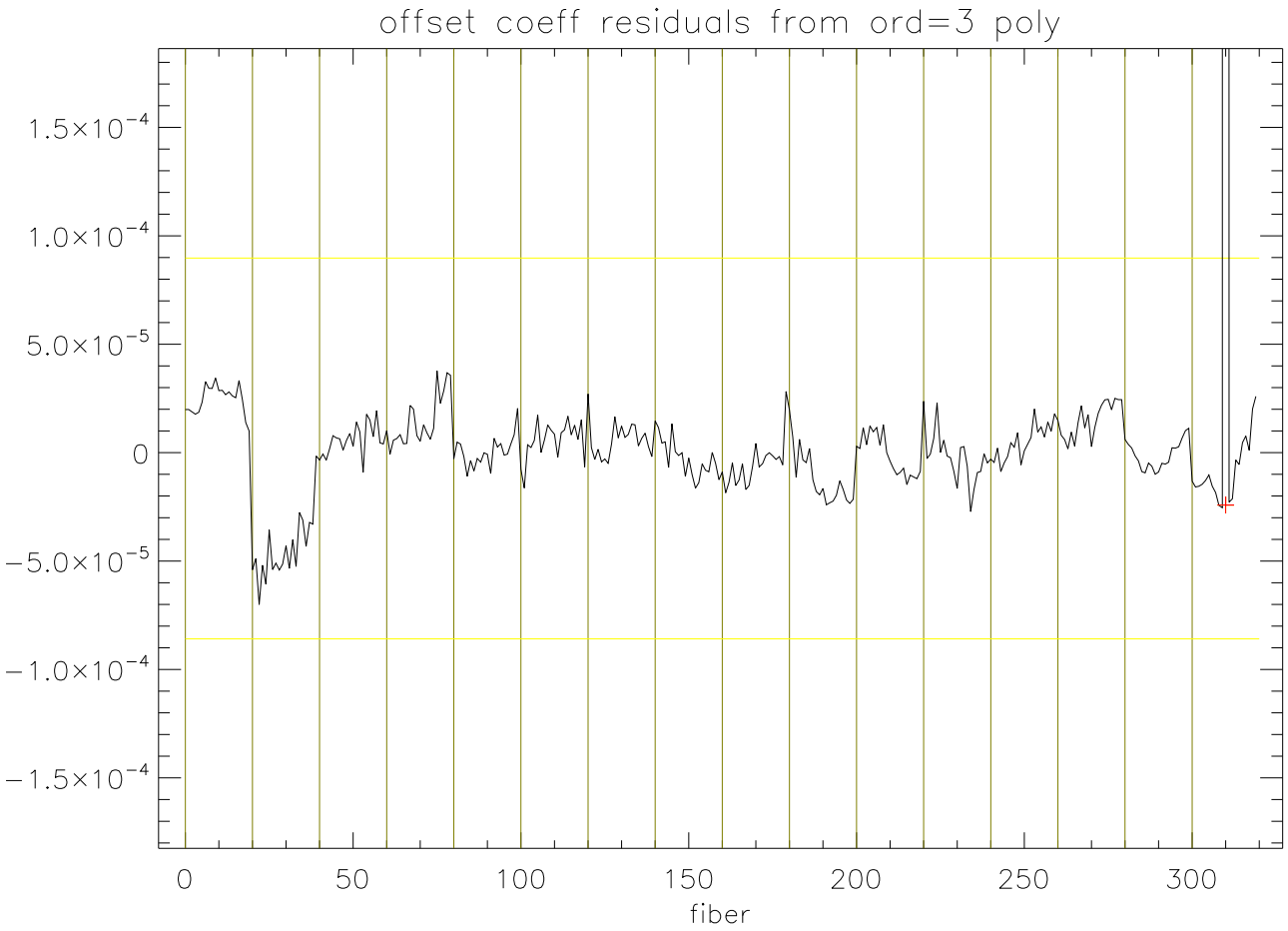

PLATE=3442 MJD=54980 sdR-b1-00061476.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

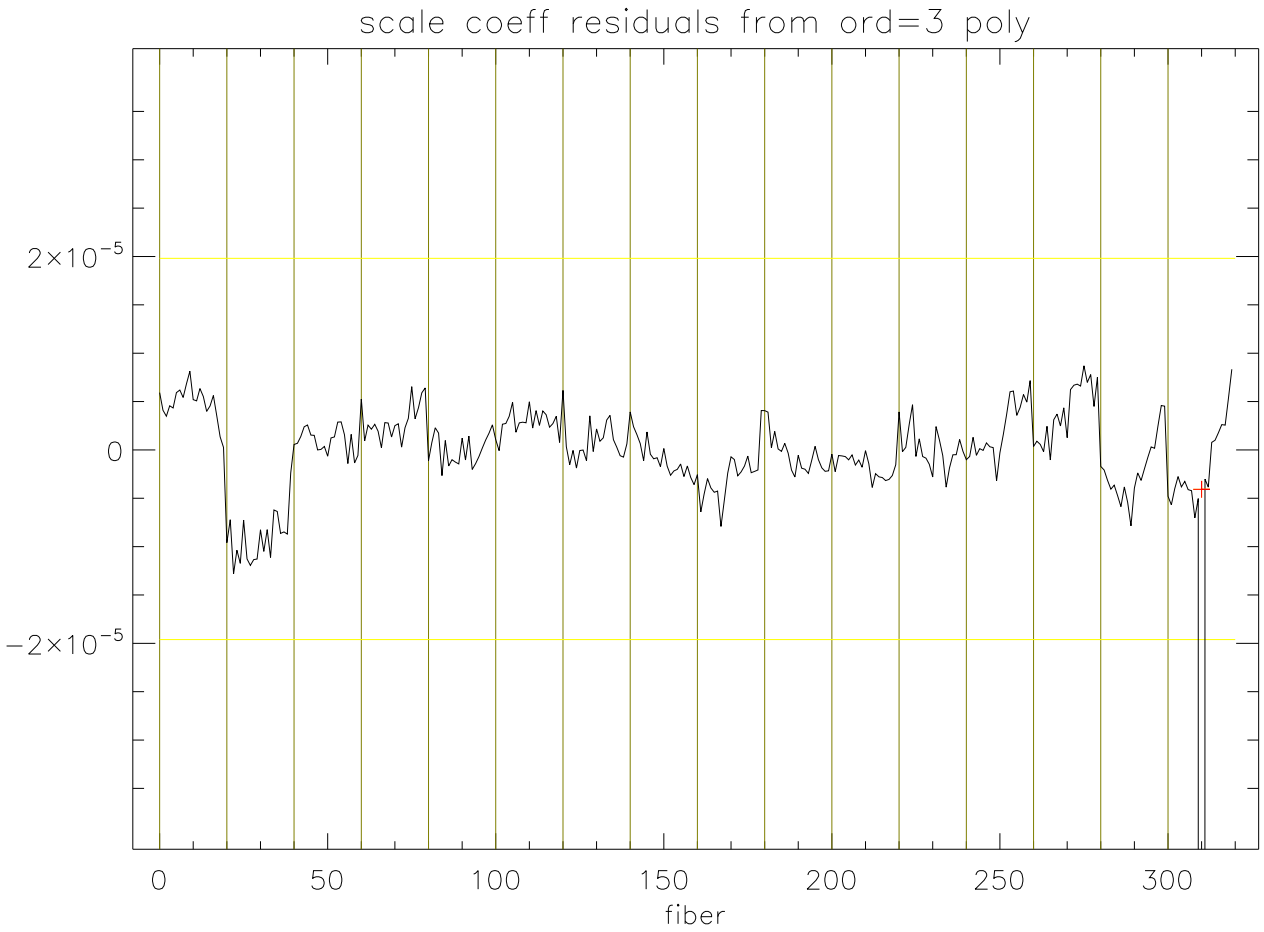

PLATE=3442 MJD=54980 sdR-b1-00061476.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

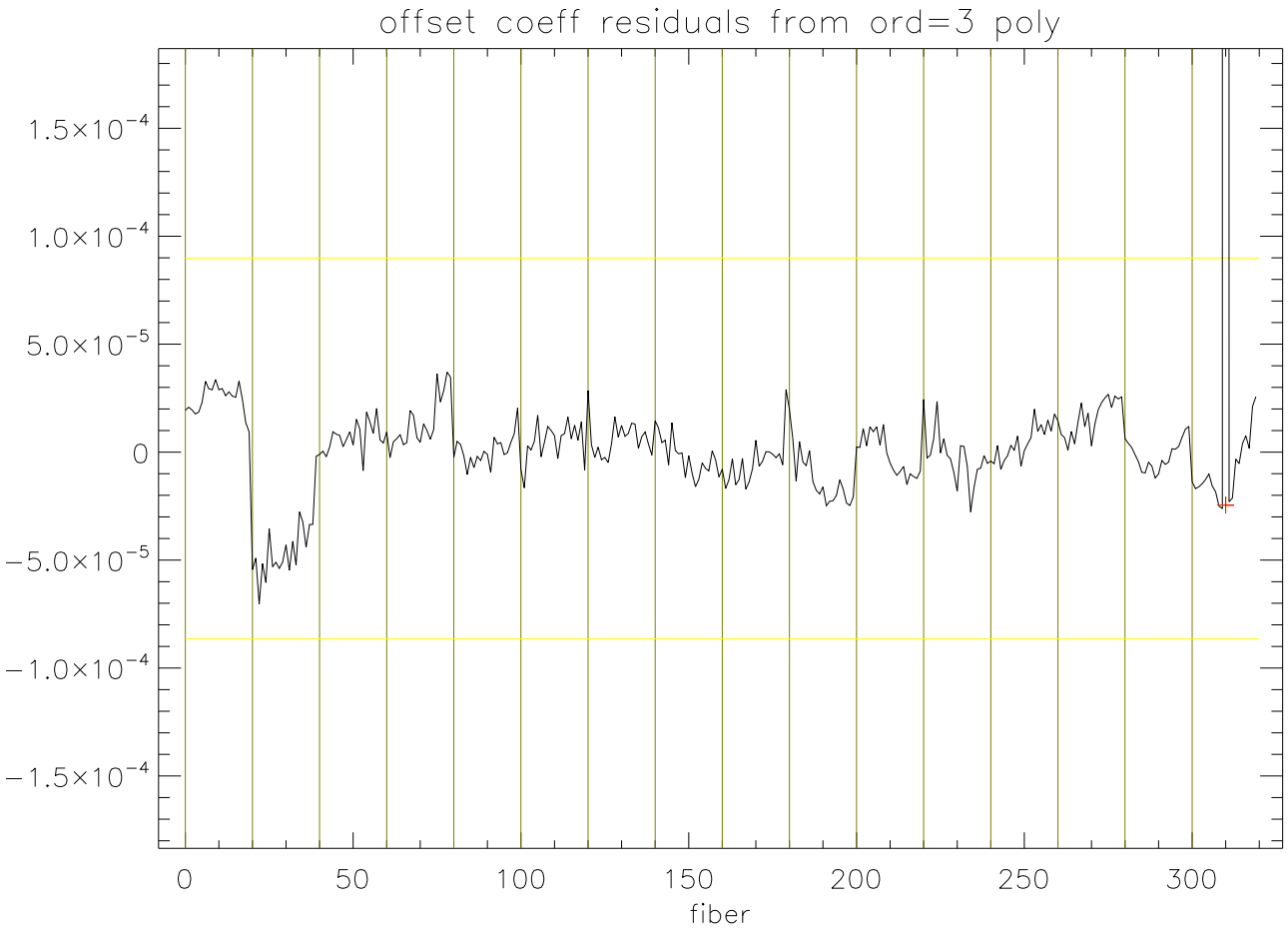

Number of sky fibers = 14
PLATE=3442 MJD=54980 sdR-b1-00061476.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

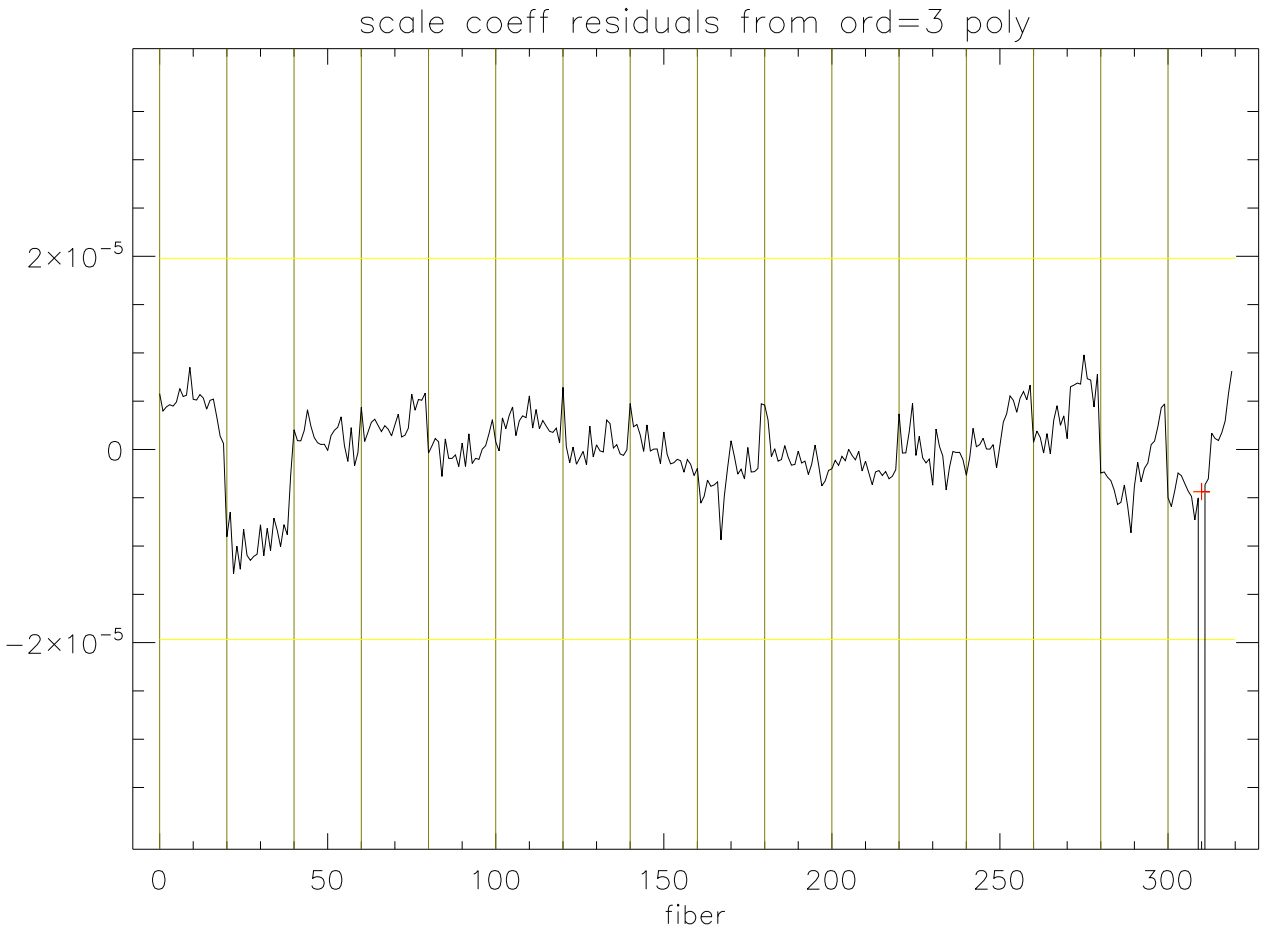

PLATE=3442 MJD=54980 sdR-b1-00061476.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 4.98 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

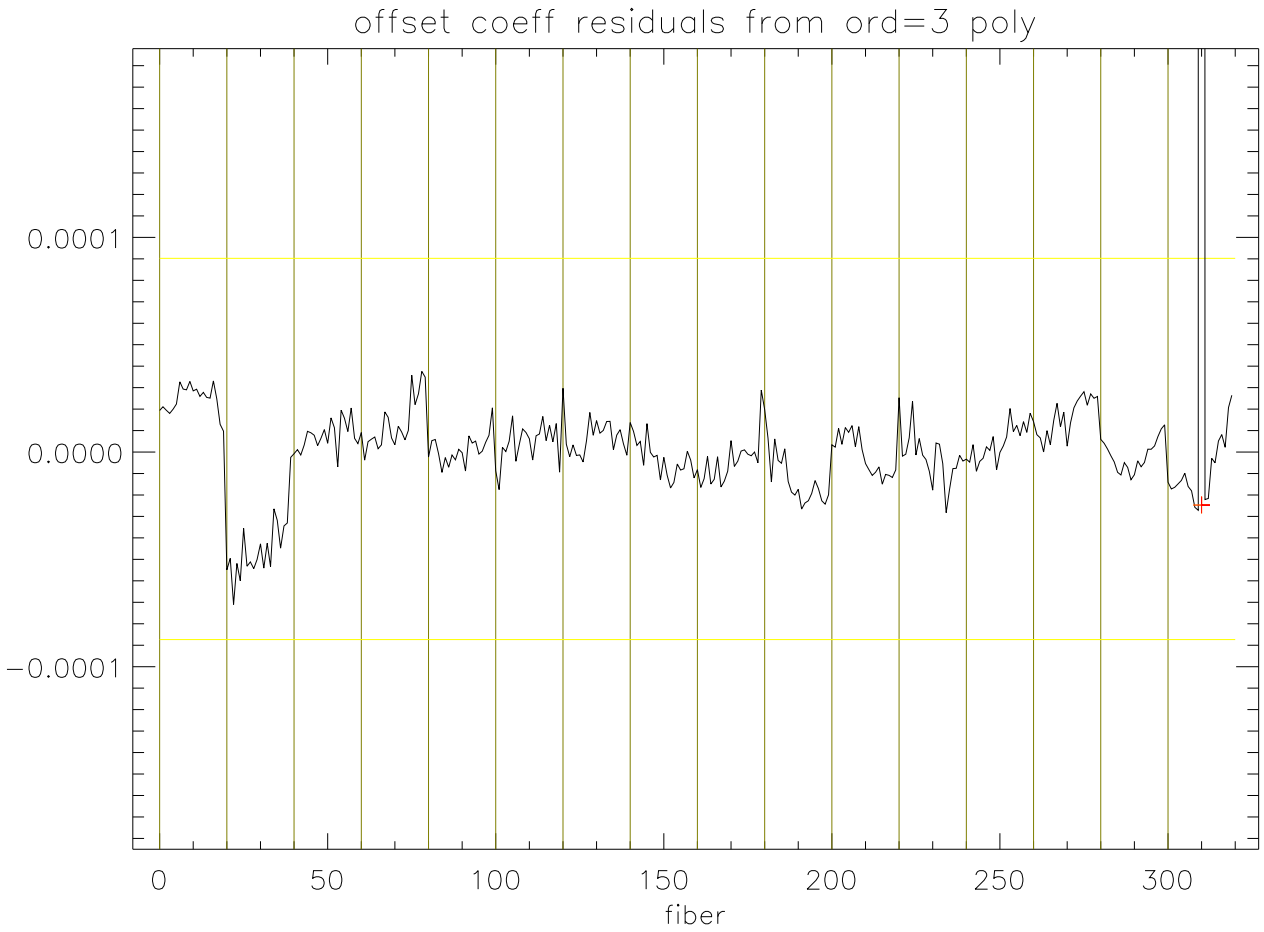

PLATE=3442 MJD=54980 sdR-b1-00061476.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.10 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

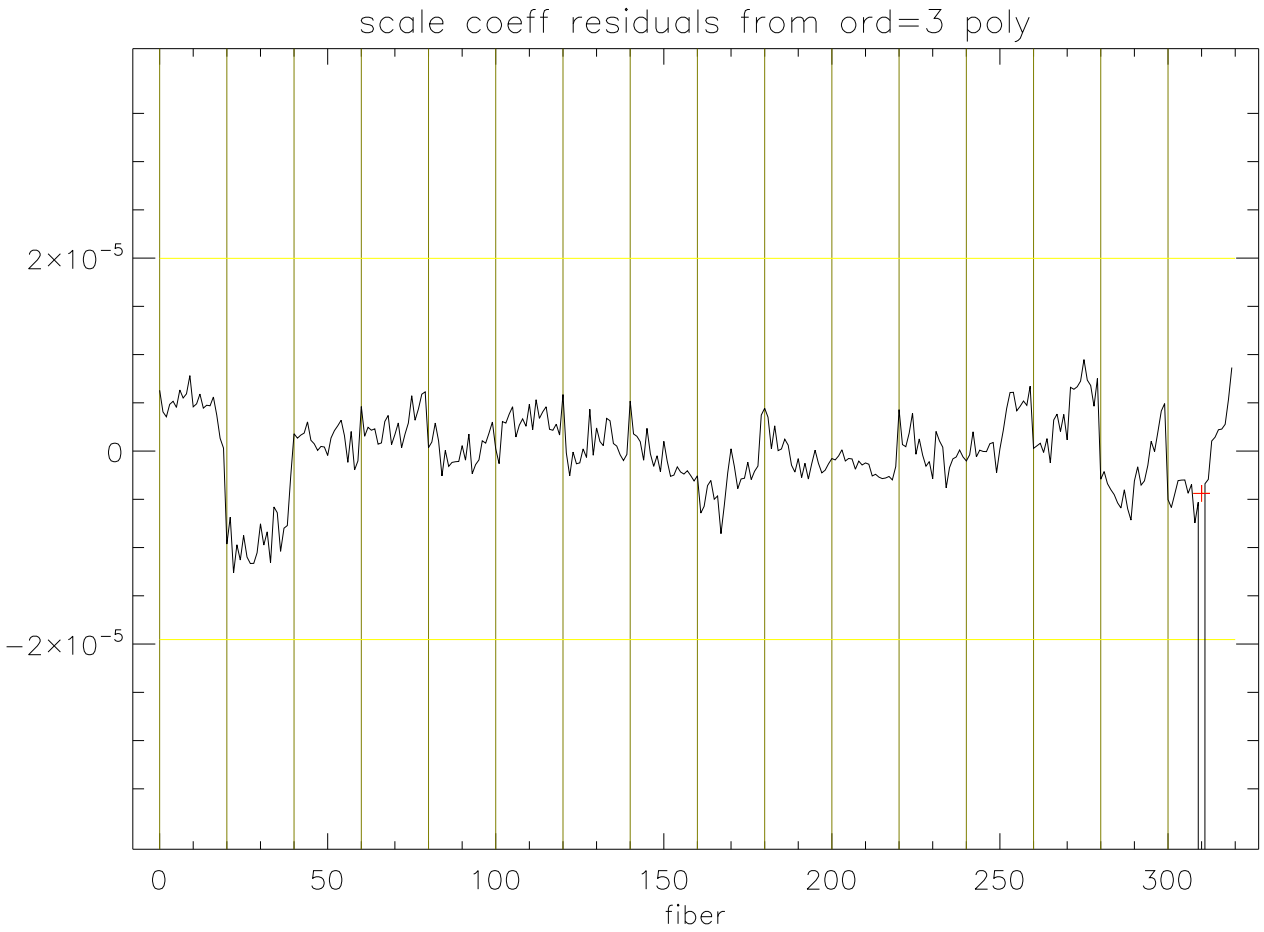

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

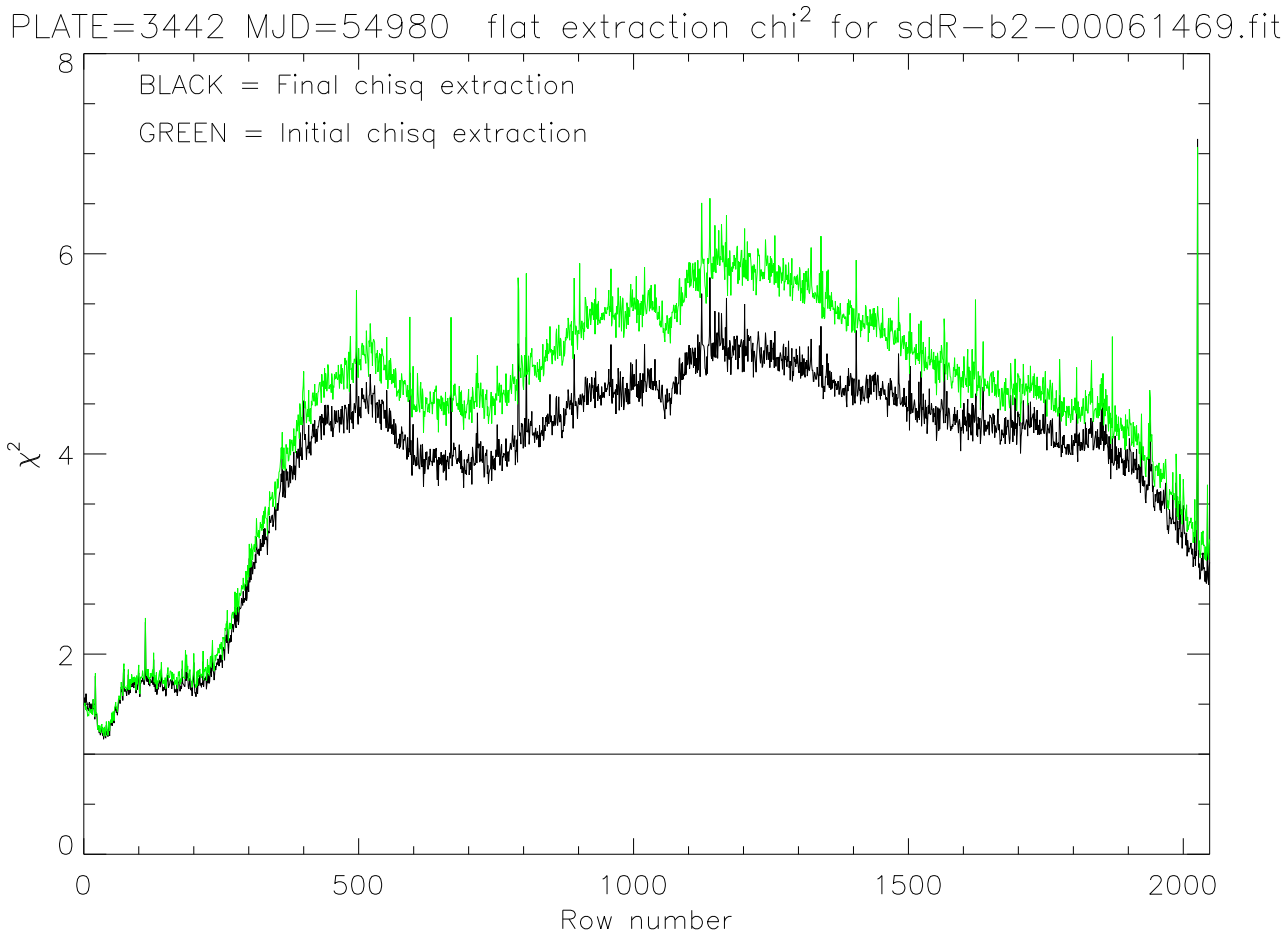

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

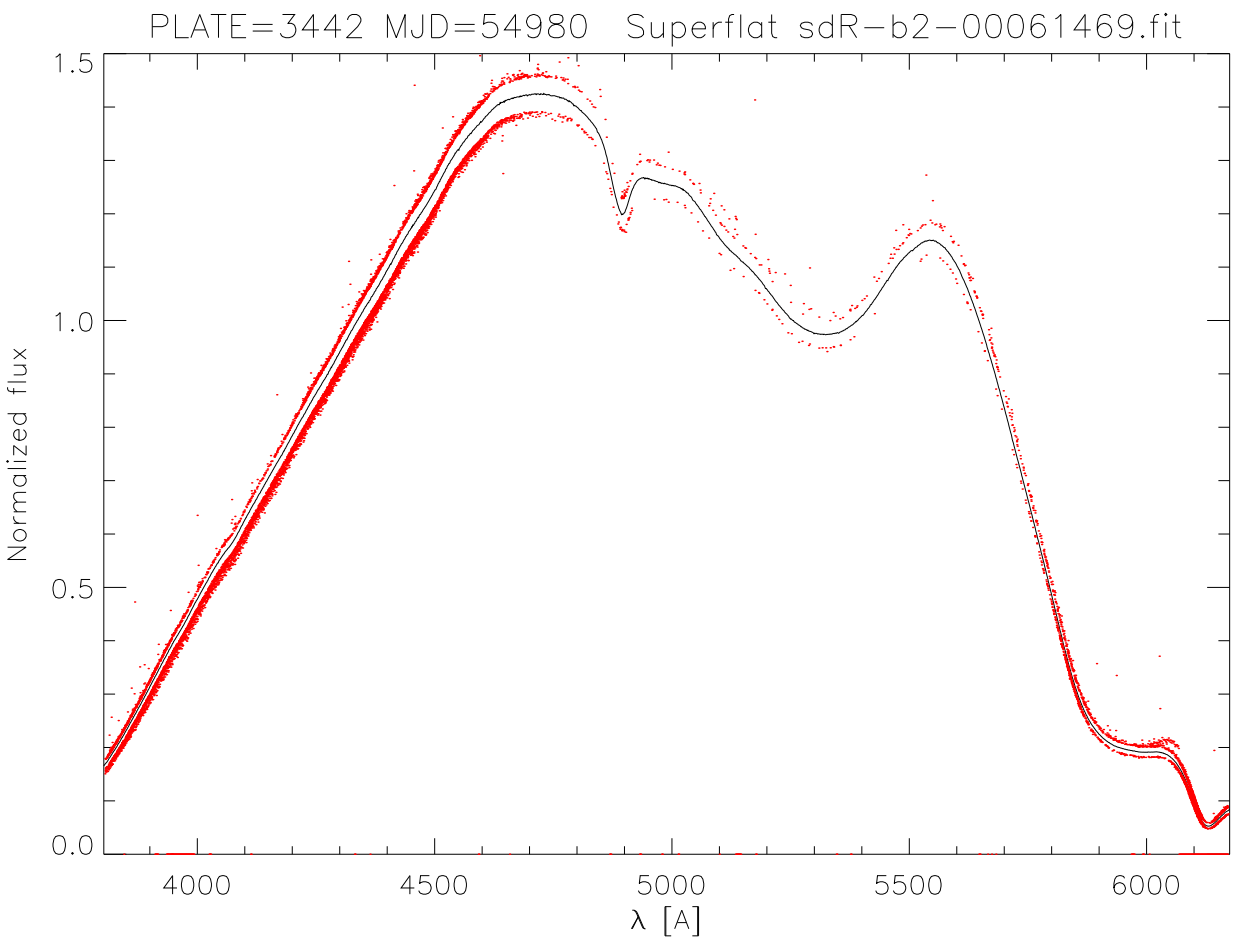

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

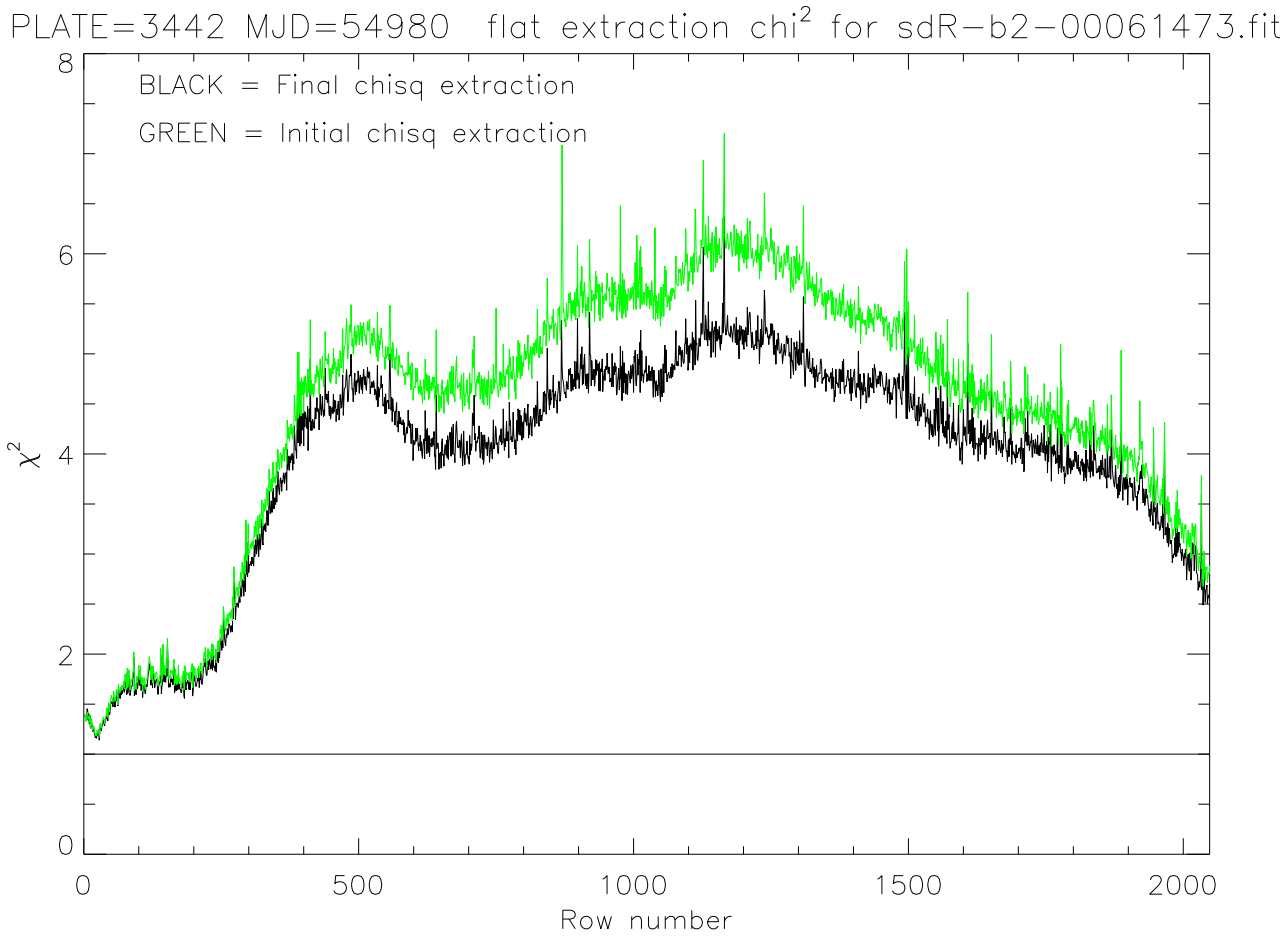

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

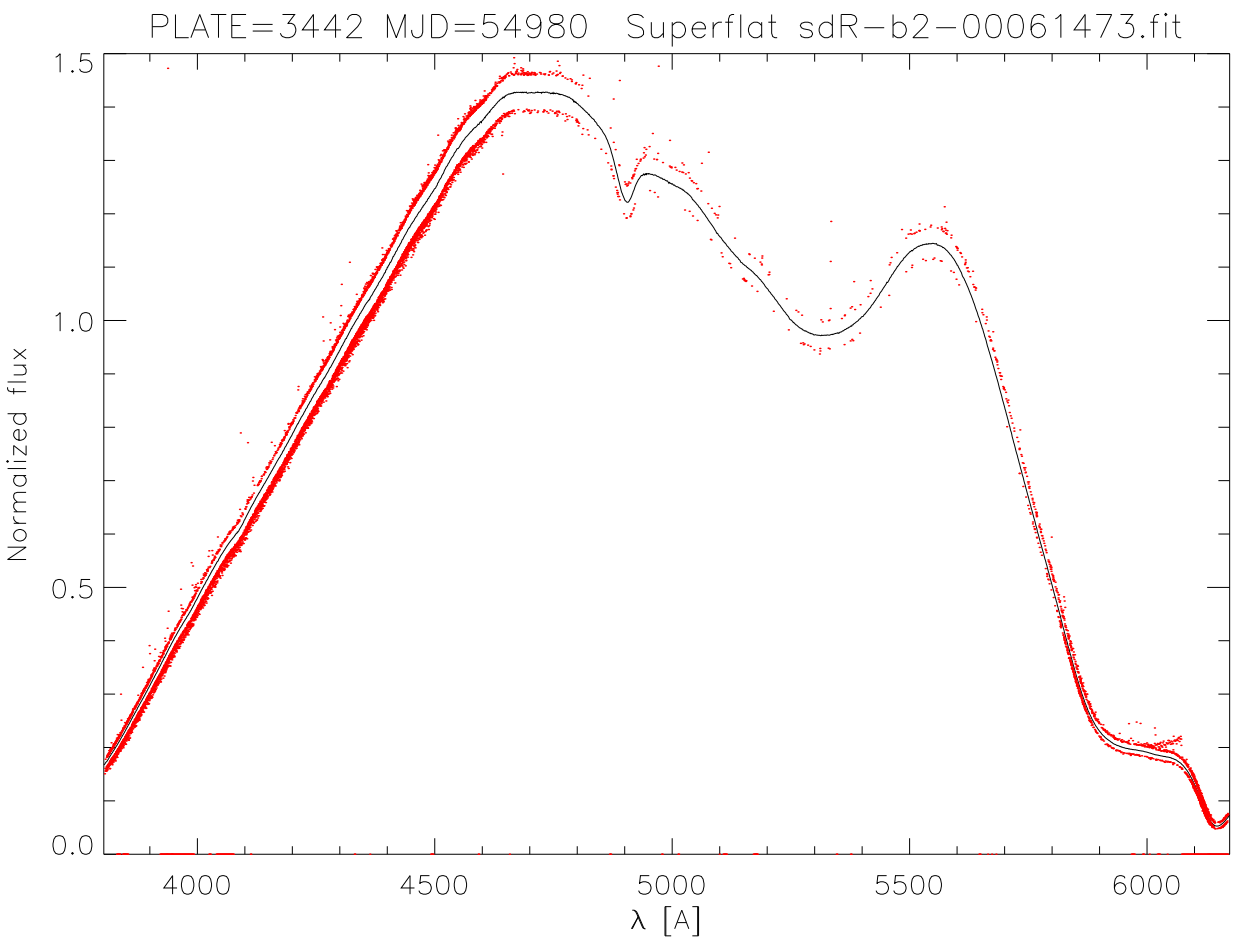

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

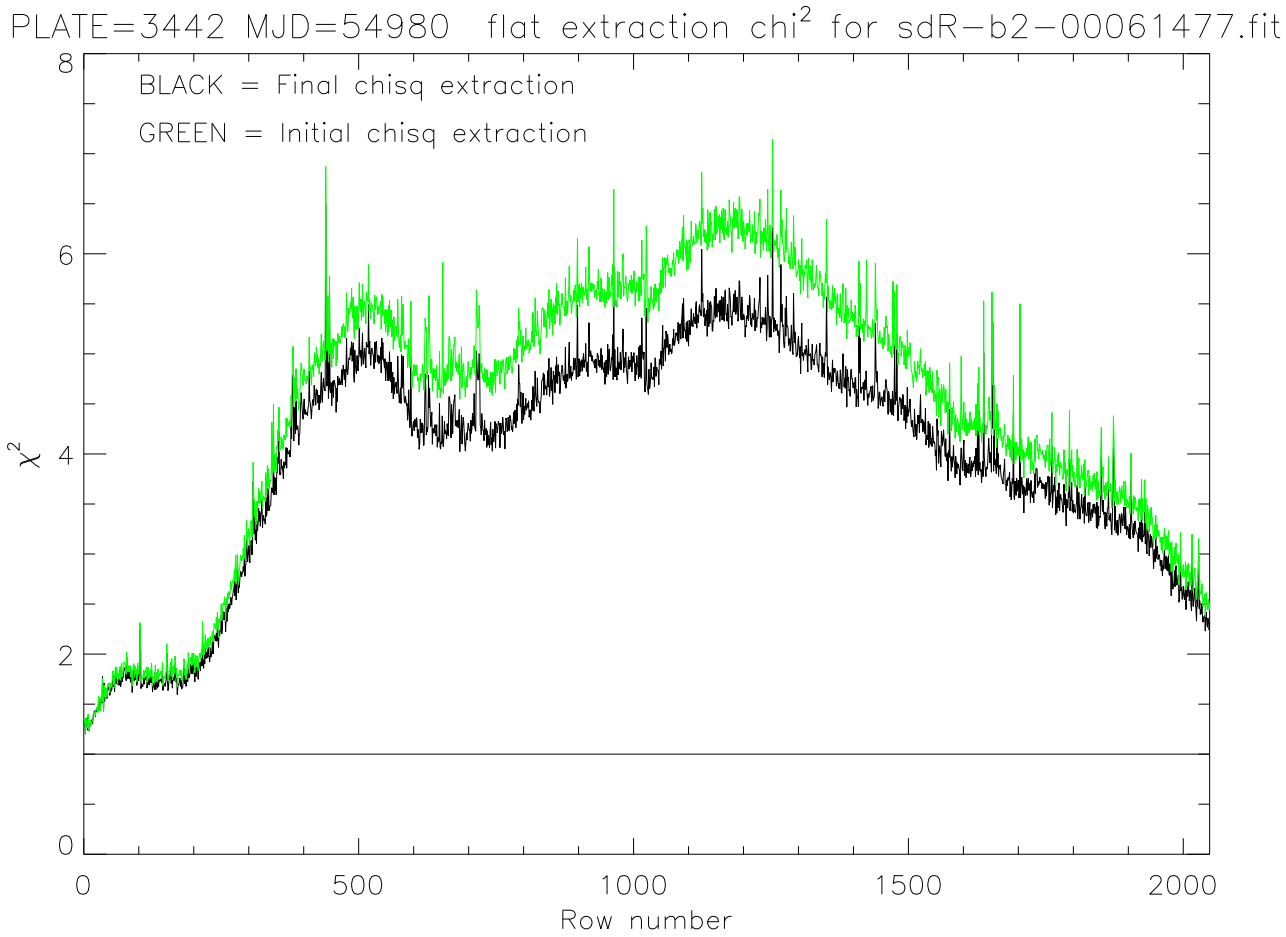

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

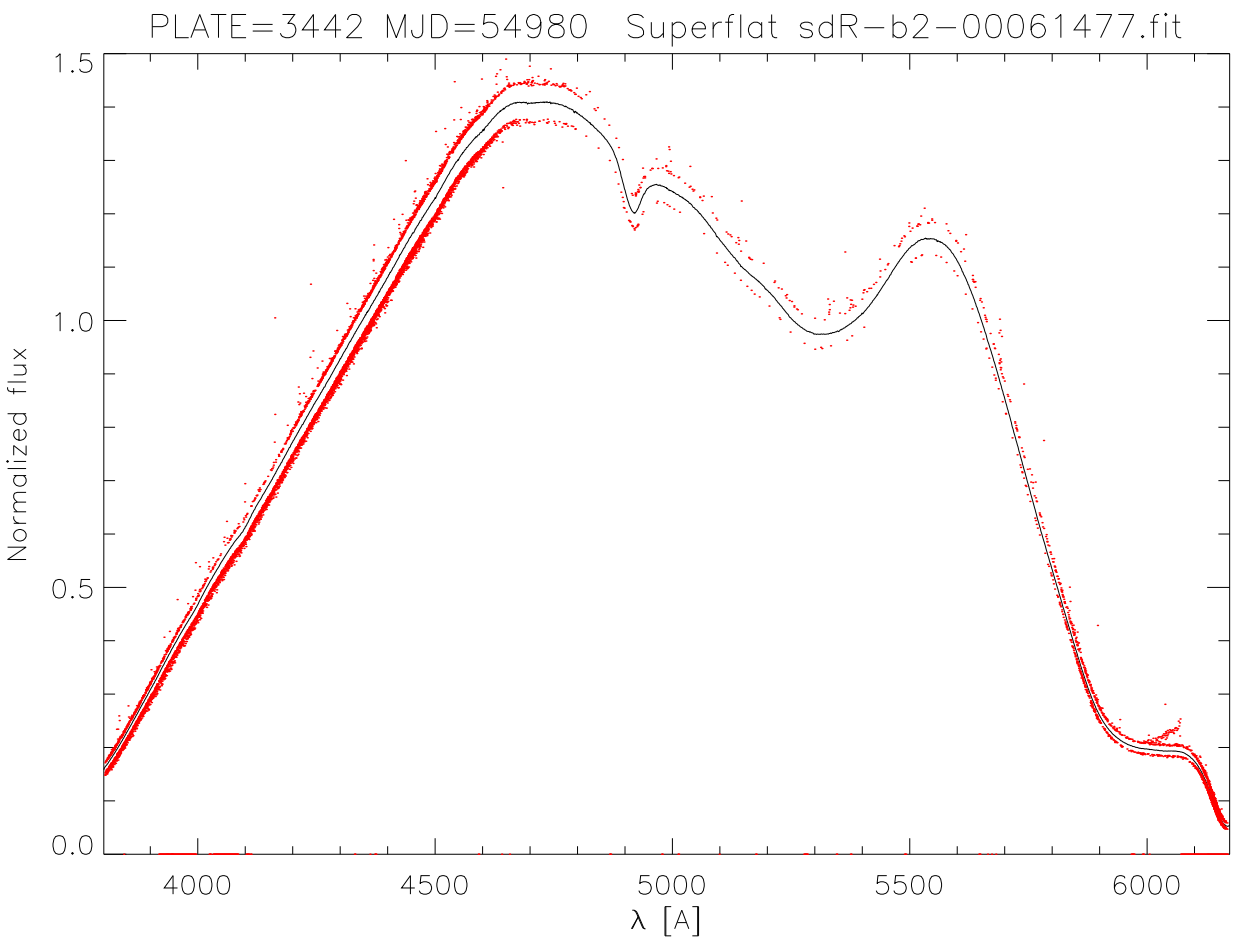

PLATE=3442 MJD=54980 flat extraction chi^2 for sdR−b2−00061469.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

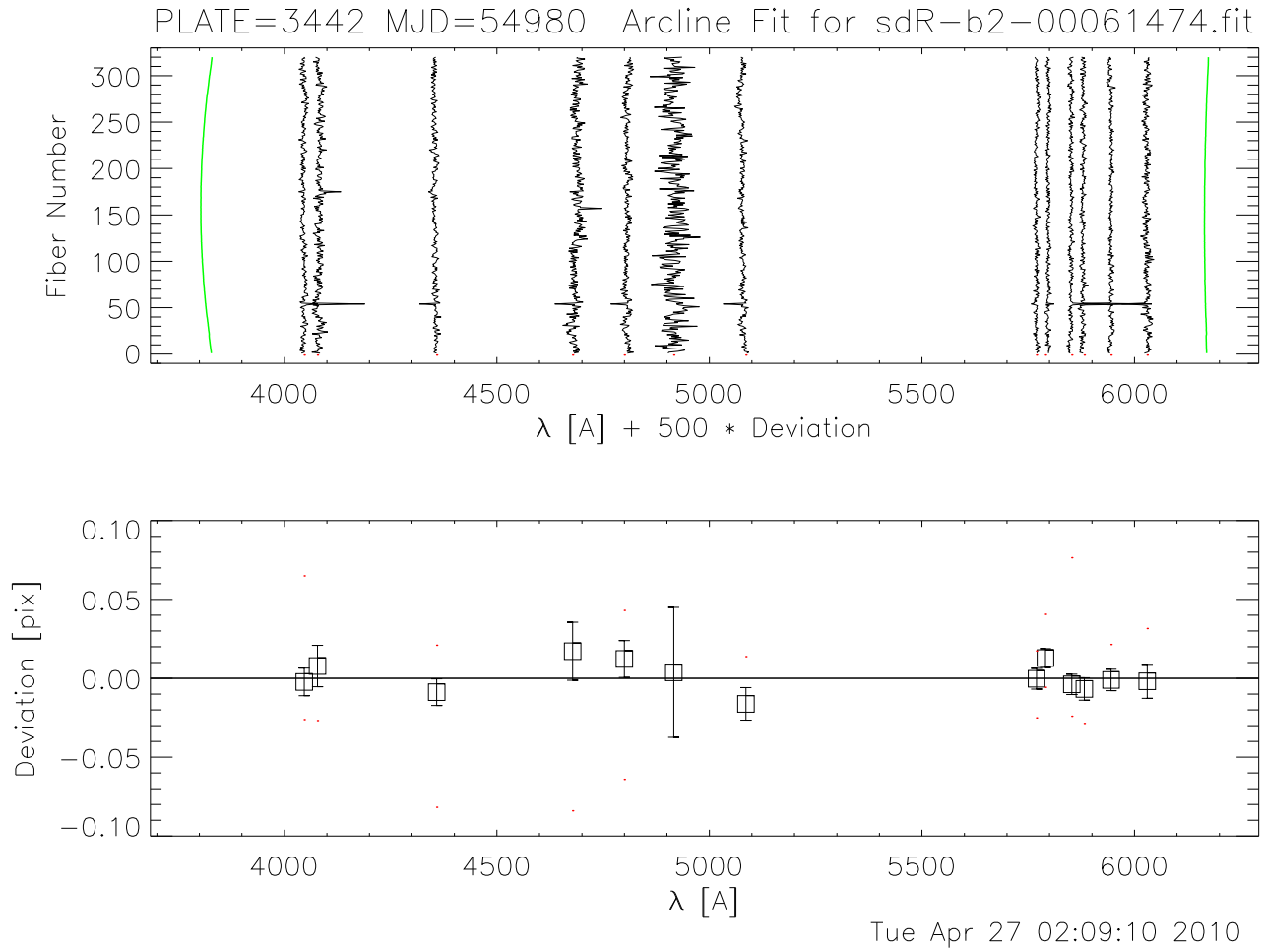

PLATE=3442 MJD=54980 Superflat sdR-b2-00061469.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

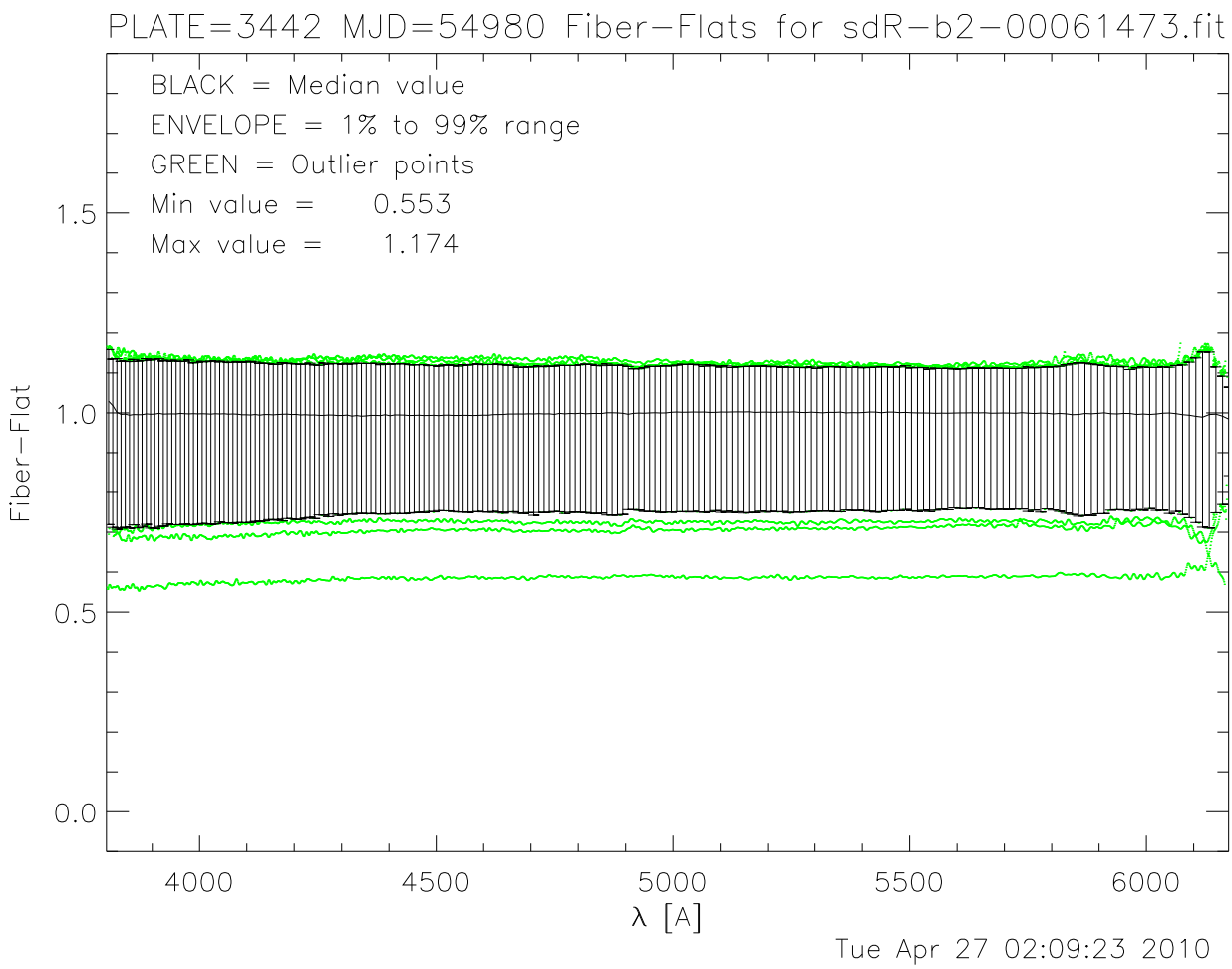

PLATE=3442 MJD=54980 flat extraction chi^2 for sdR−b2−00061473.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

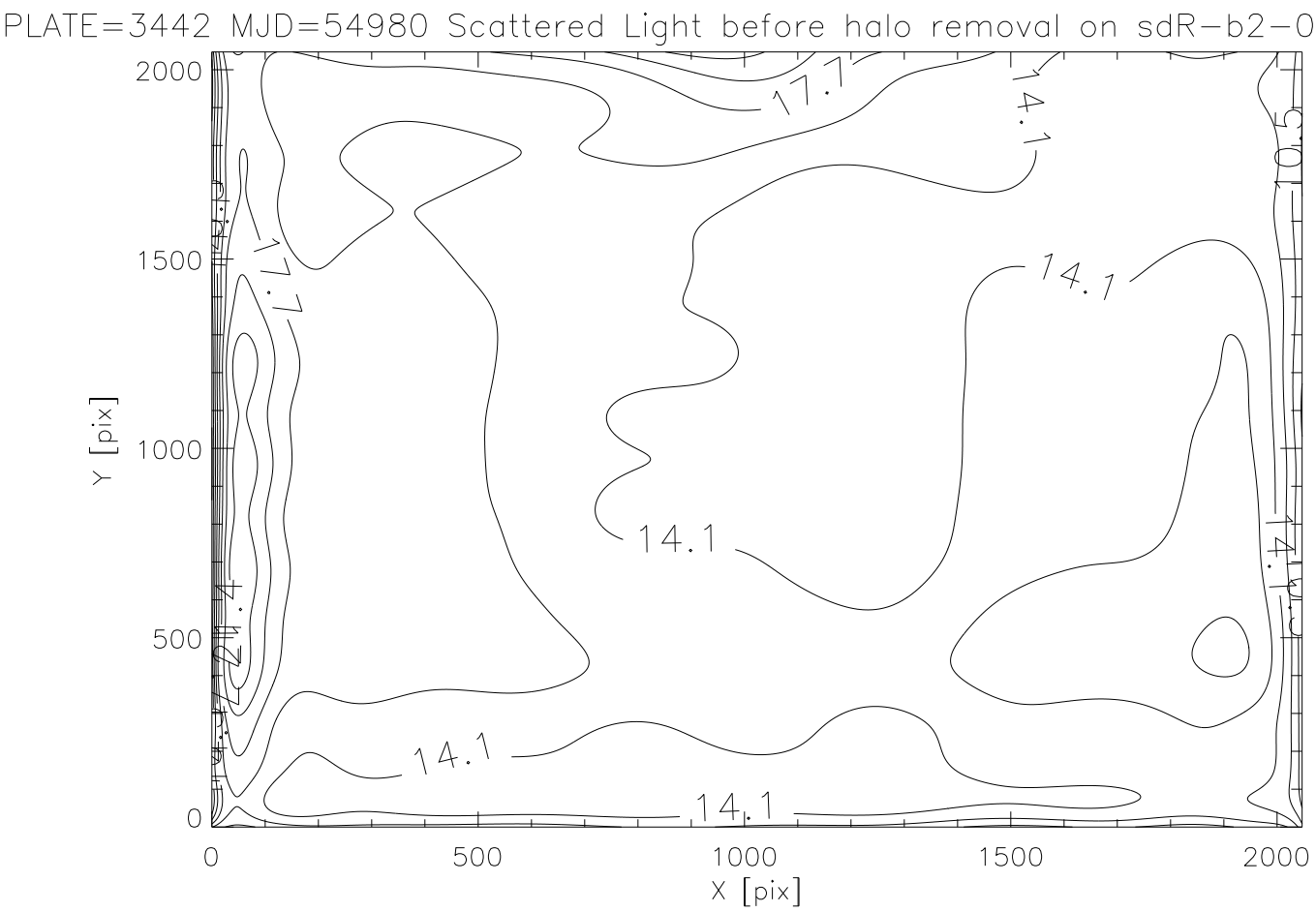

PLATE=3442 MJD=54980 Superflat sdR-b2-00061473.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

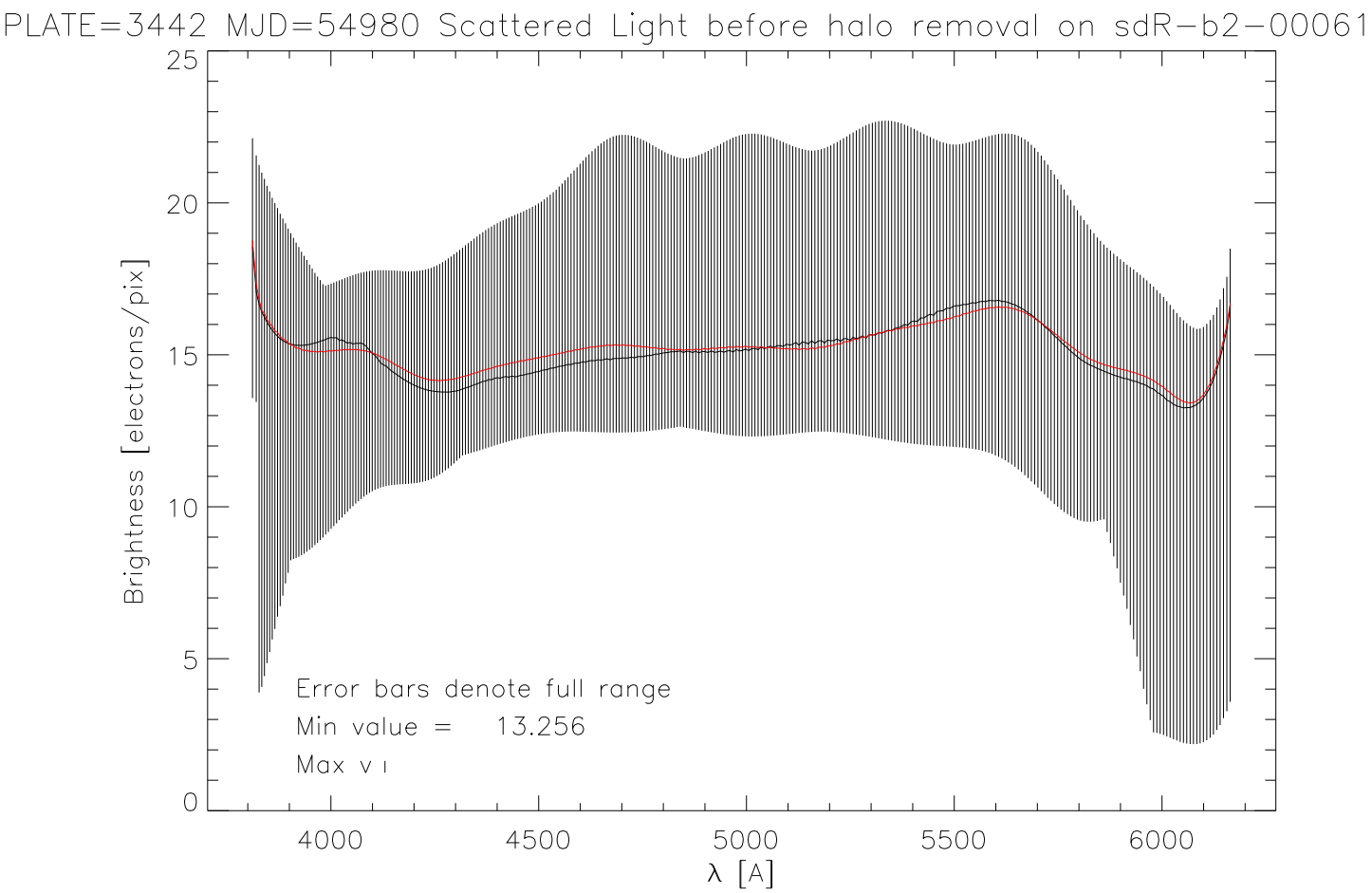

PLATE=3442 MJD=54980 flat extraction chi^2 for sdR−b2−00061477.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number


PLATE=3442 MJD=54980 Superflat sdR-b2-00061477.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]


PLATE=3442 MJD=54980 Arcline Fit for sdR-b2-00061474.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Tue Apr 27 02:09:10 2010


PLATE=3442 MJD=54980 Fiber-Flats for sdR-b2-00061473.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.553
Max value = 1.174
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Apr 27 02:09:23 2010


PLATE=3442 MJD=54980 Scattered Light before halo removal on sdR-b2-00061471.f
17.7
14.1
14.1
14.1


PLATE=3442 MJD=54980 Scattered Light before halo removal on sdR−b2−00061471.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 13.256
Max v
0
5
10
15
20
25
4000
4500
5000
5500
6000