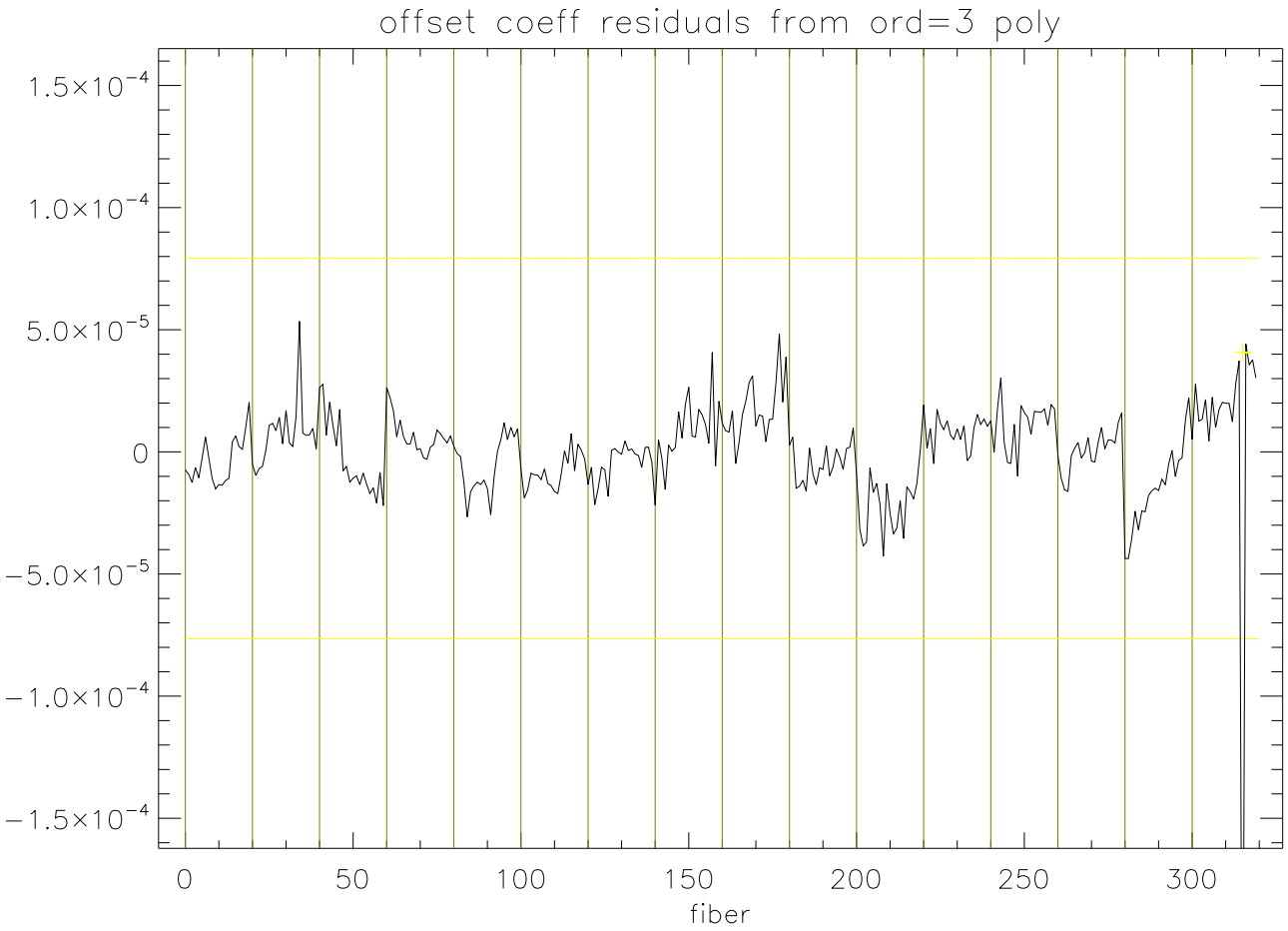
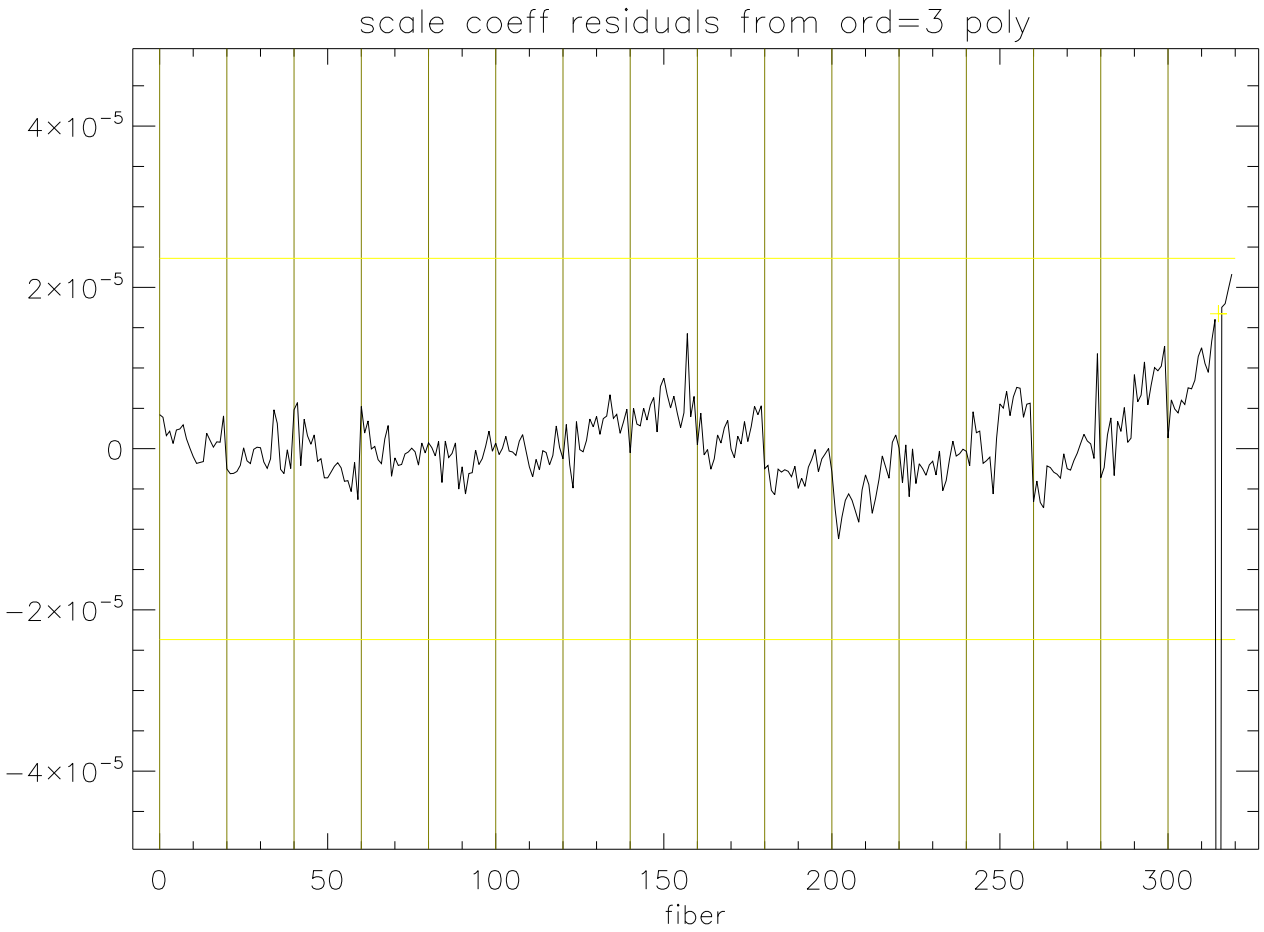
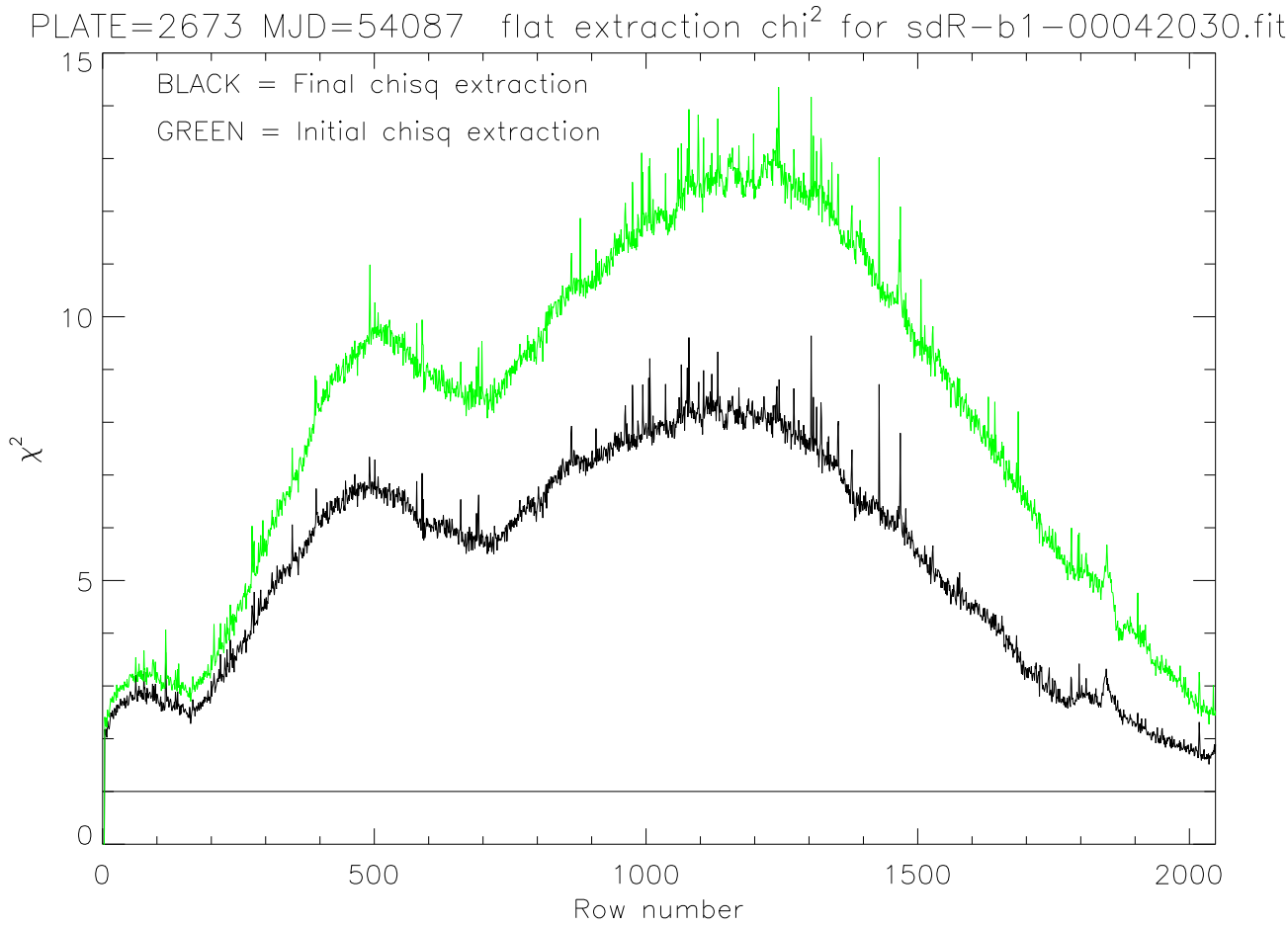
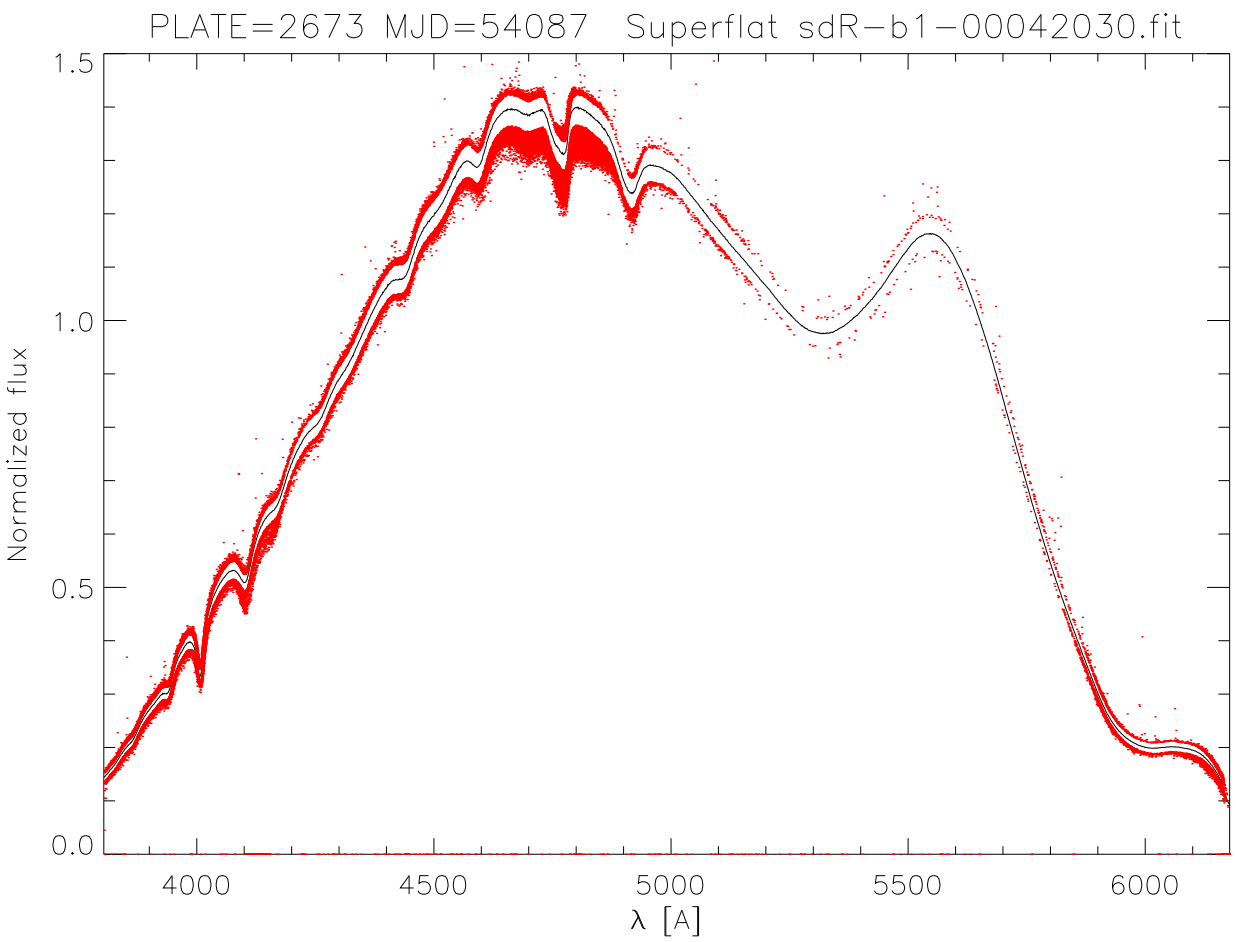
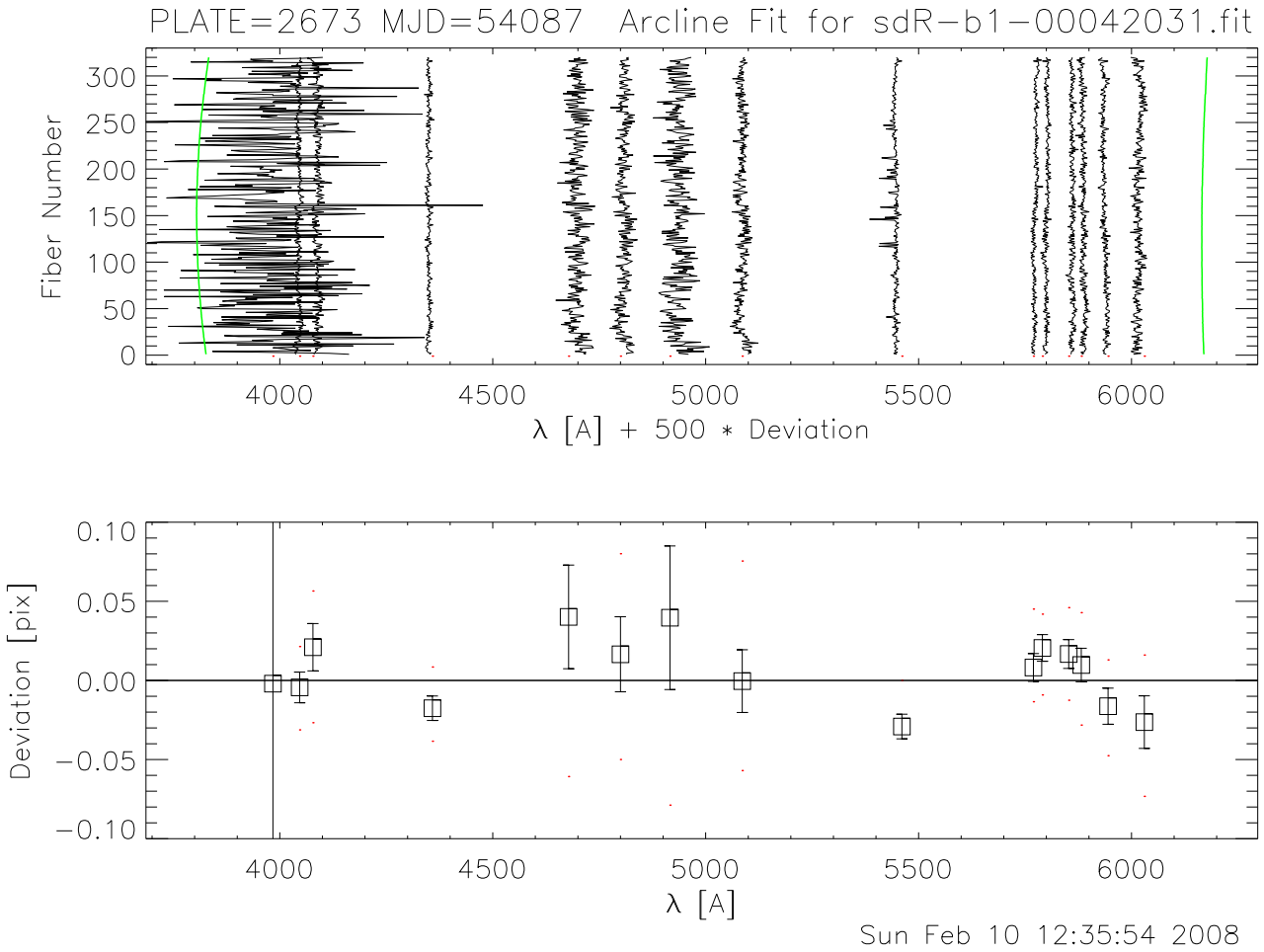
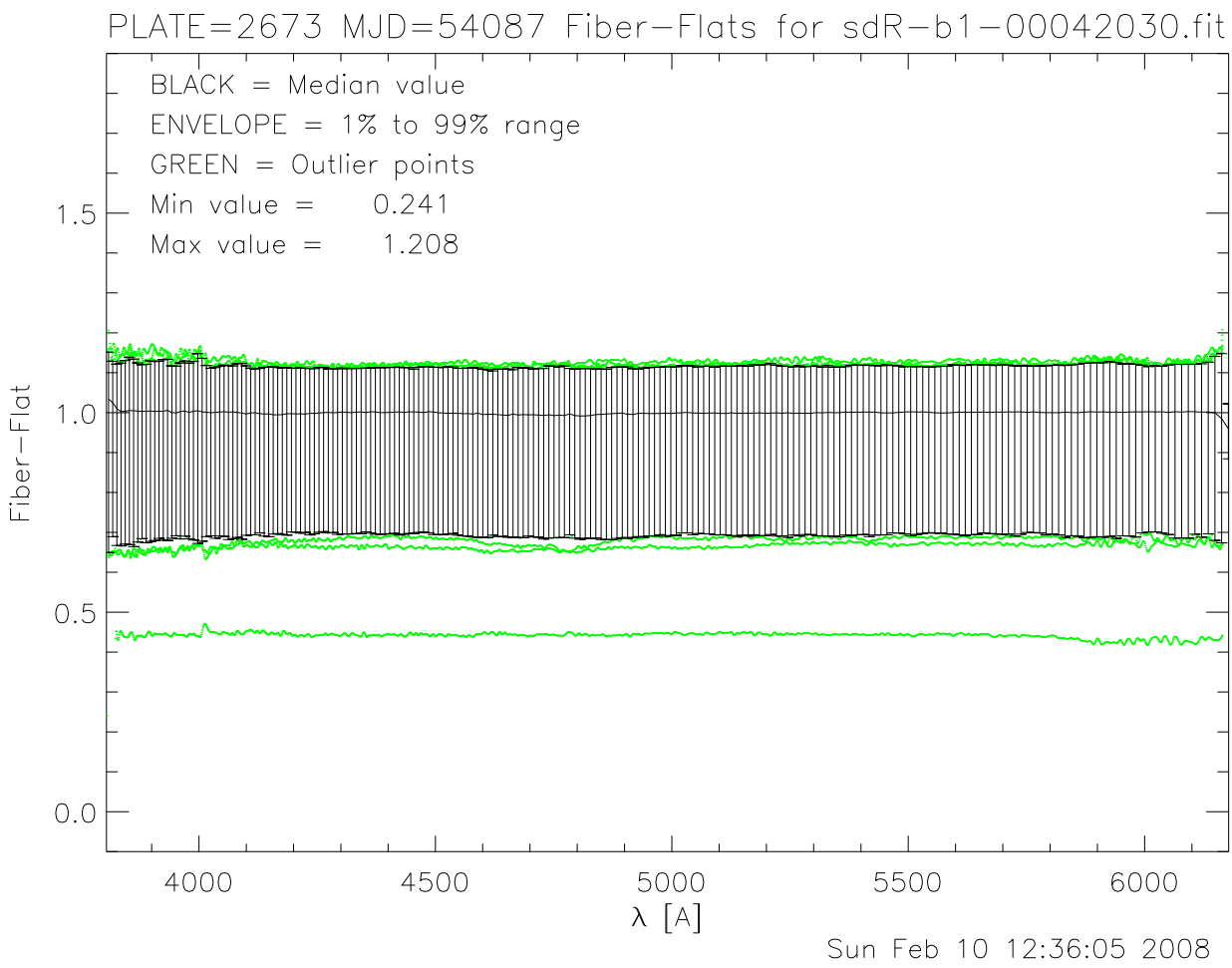

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

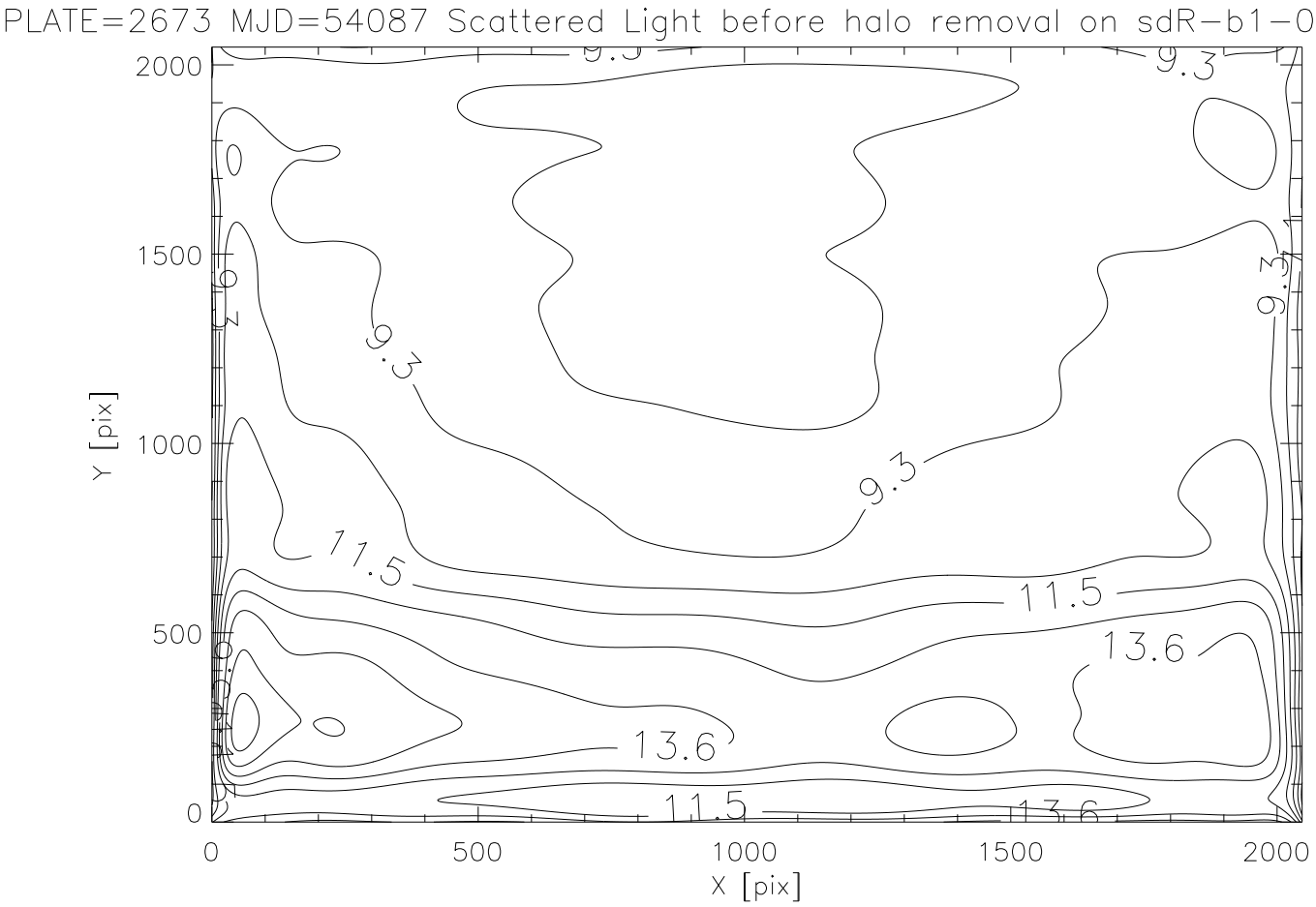

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

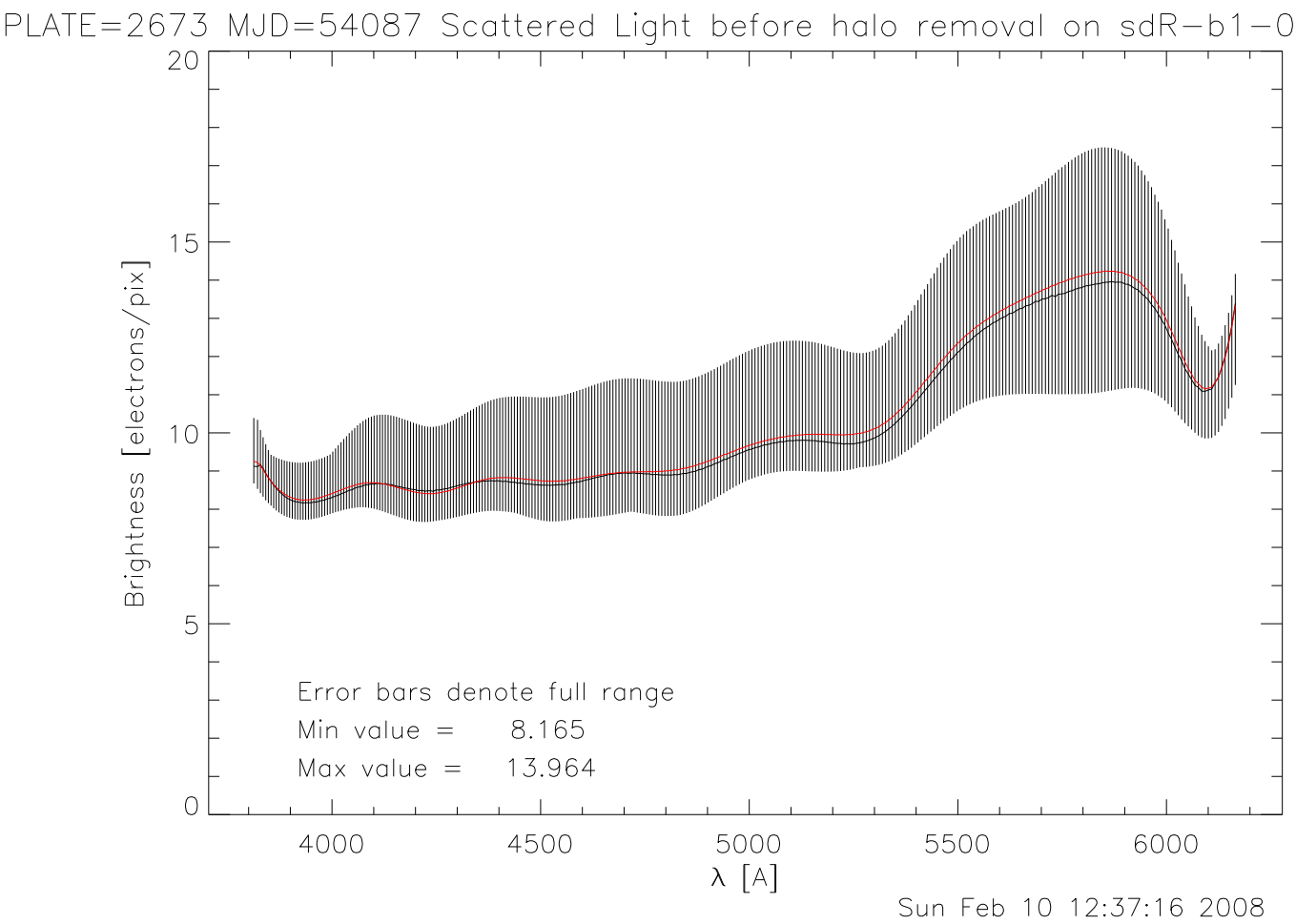

PLATE=2673 MJD=54087 flat extraction chi^2 for sdR−b1−00042030.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

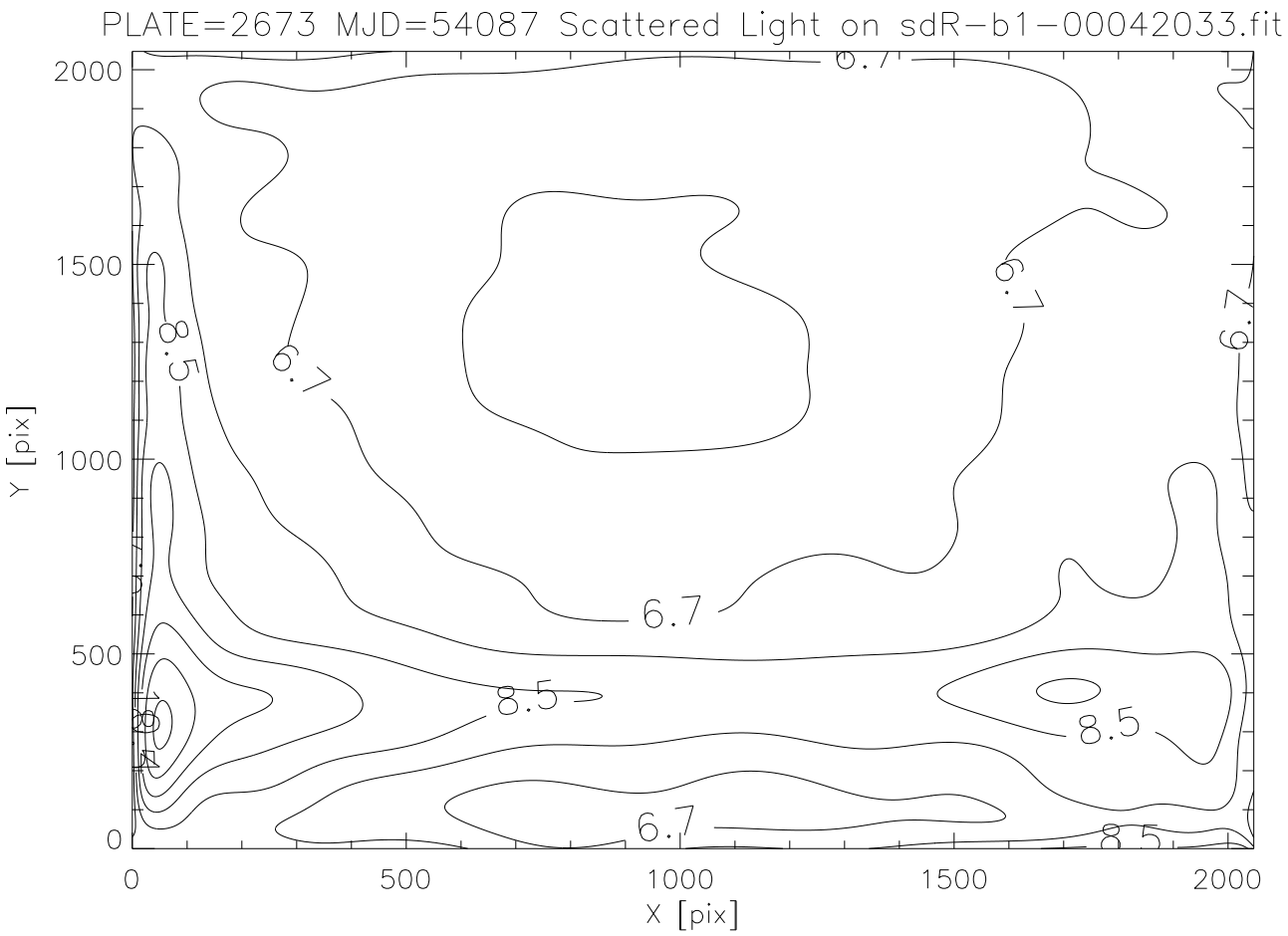

PLATE=2673 MJD=54087 Superflat sdR-b1-00042030.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

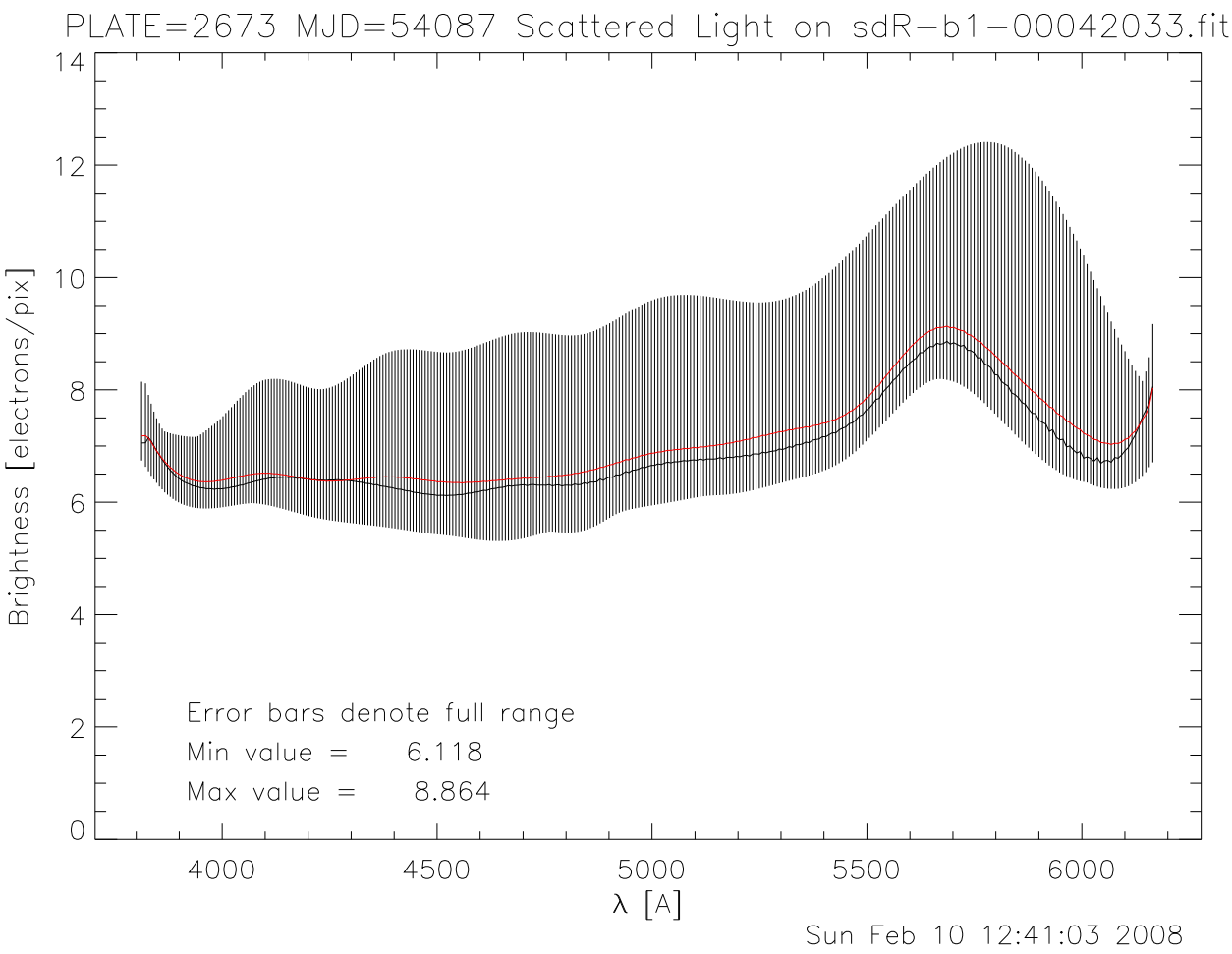

PLATE=2673 MJD=54087 Arcline Fit for sdR-b1-00042031.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 12:35:54 2008

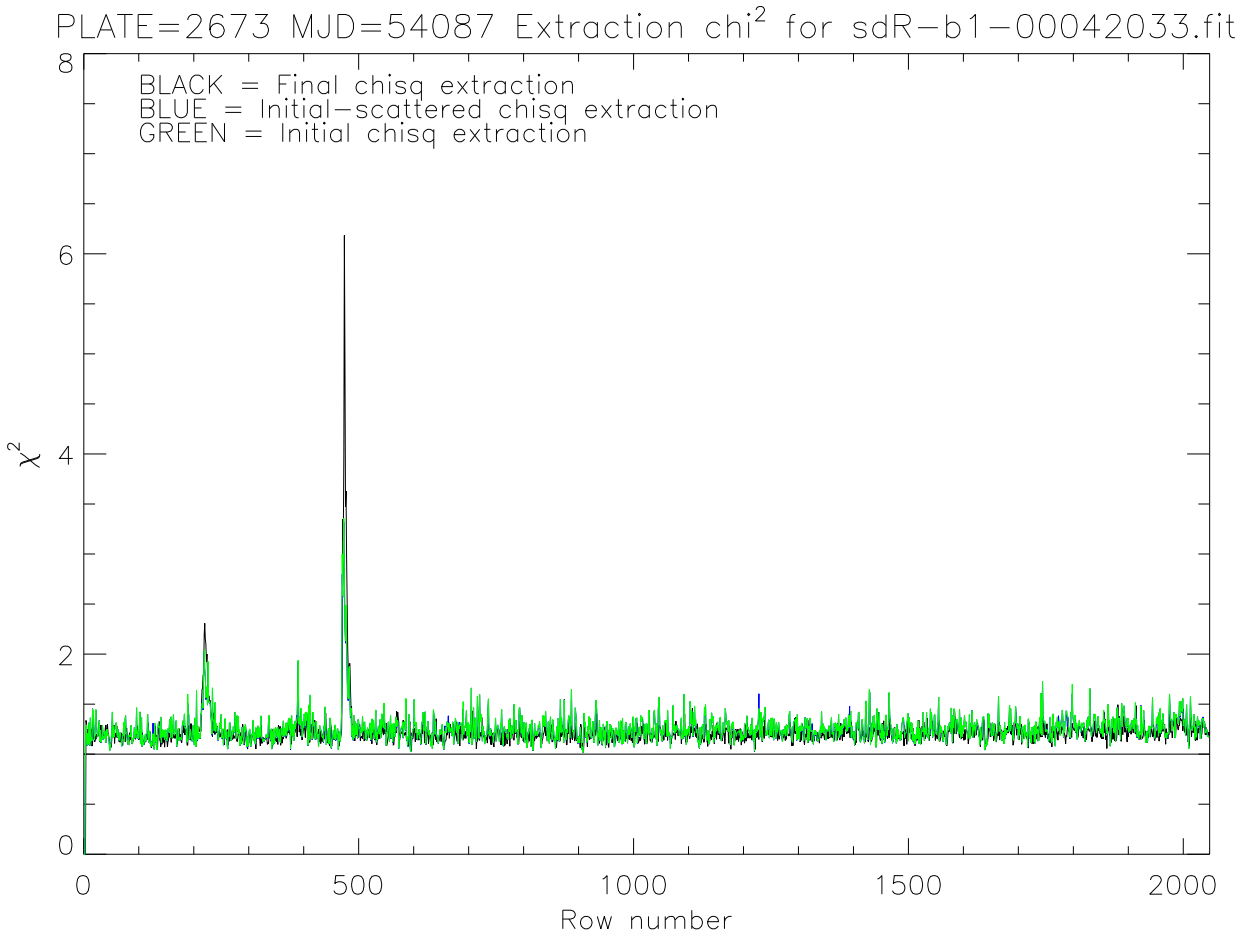

PLATE=2673 MJD=54087 Fiber-Flats for sdR-b1-00042030.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.241
Max value = 1.208
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 12:36:05 2008

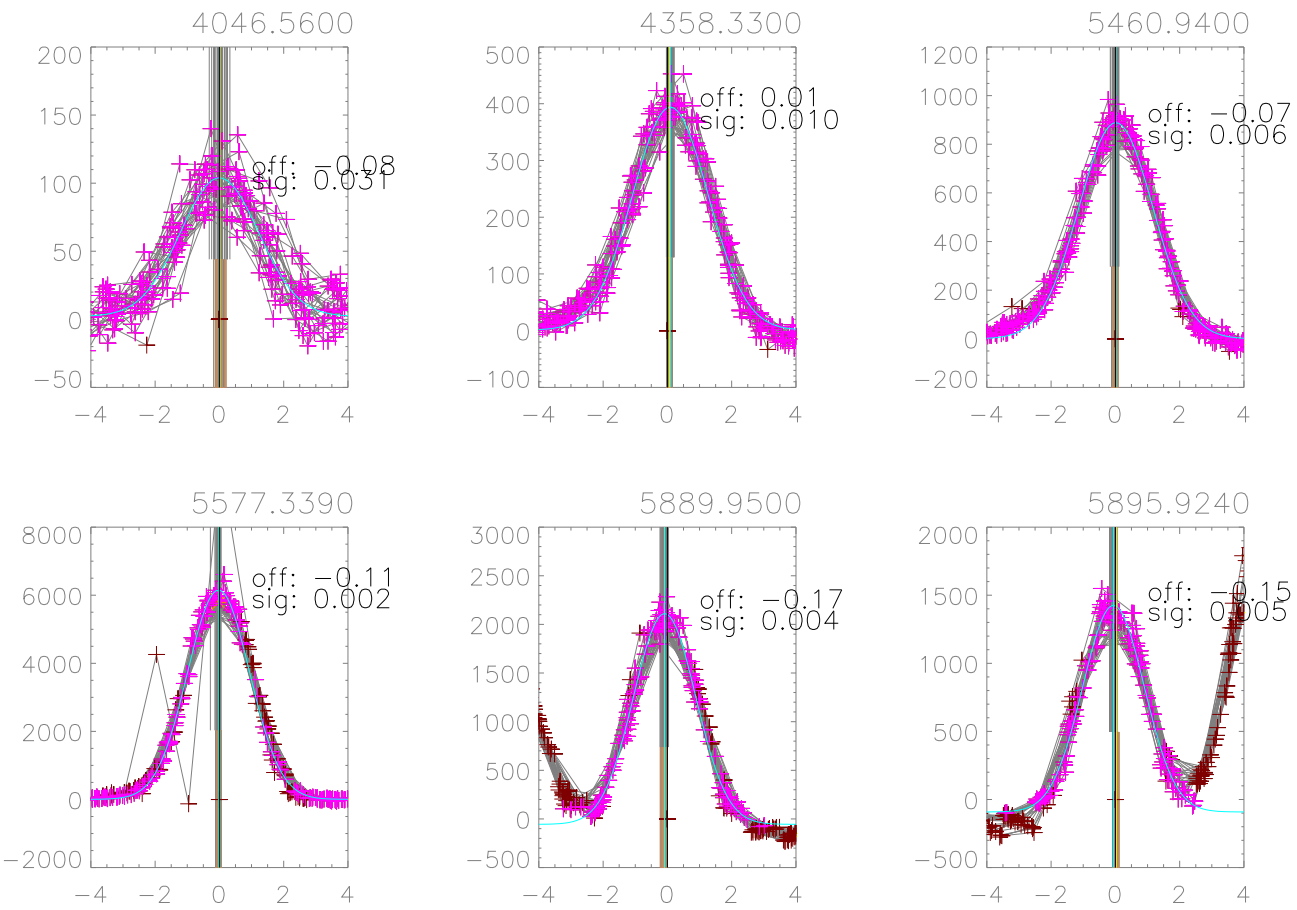

PLATE=2673 MJD=54087 Scattered Light before halo removal on sdR−b1−00042033.f
9.3
9.3
9.3
9.3
9.3
11.5
11.5
13.6
13.6
11.5
13.6
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

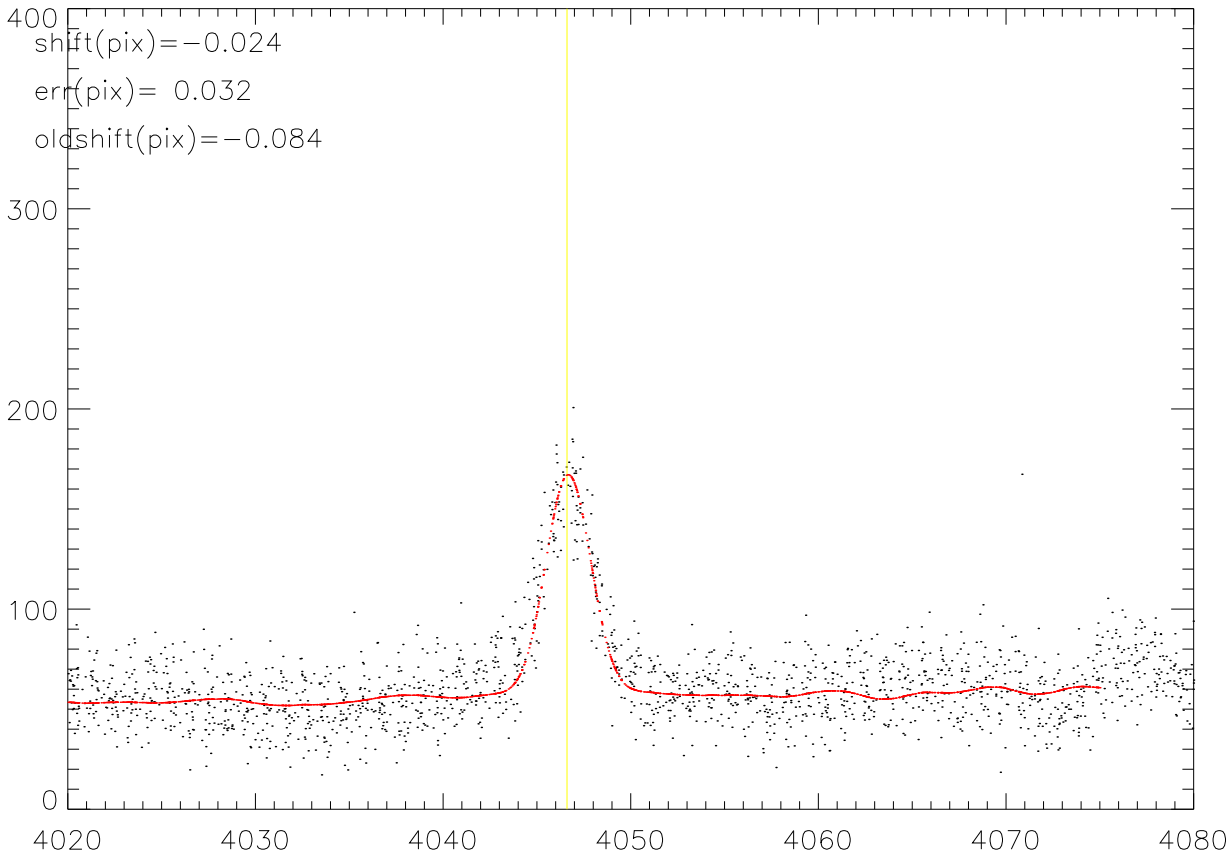

PLATE=2673 MJD=54087 Scattered Light before halo removal on sdR−b1−00042033.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 8.165
Max value = 13.964
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 12:37:16 2008

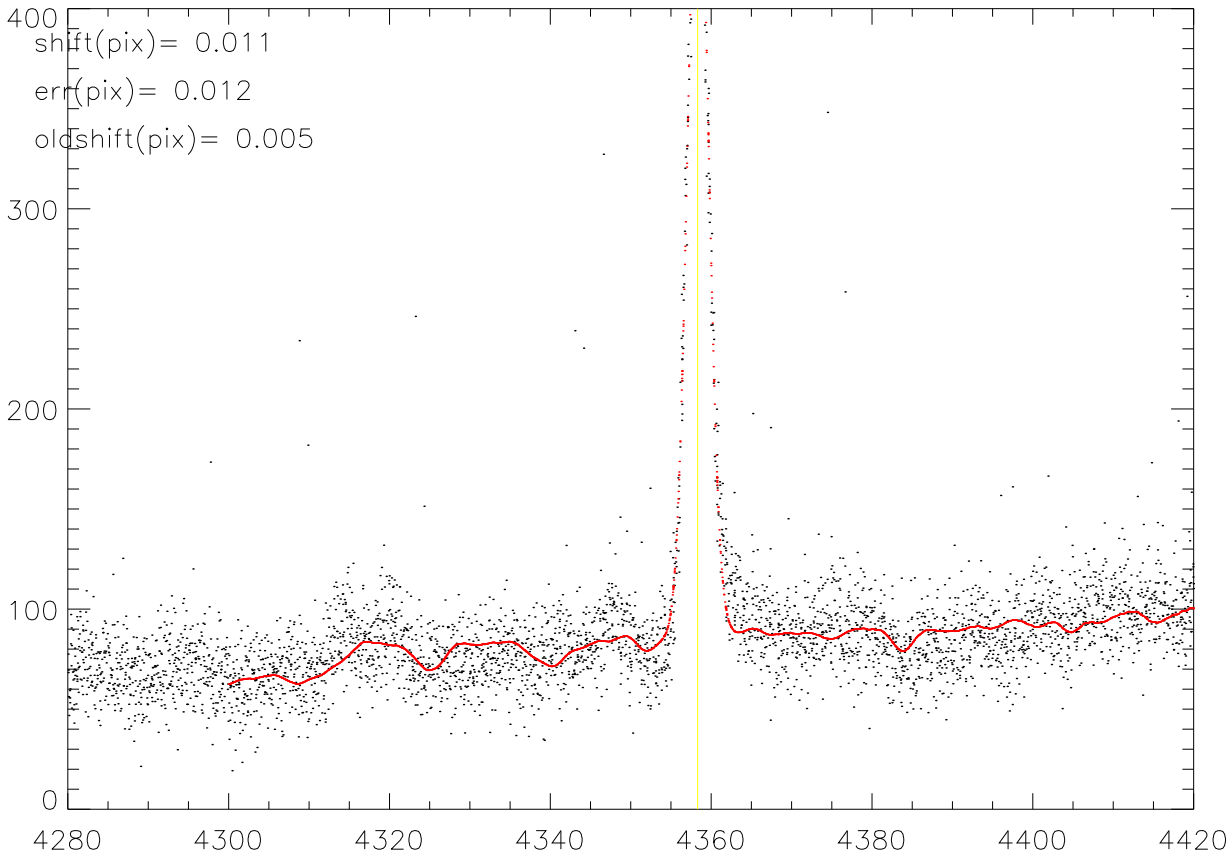

PLATE=2673 MJD=54087 Scattered Light on sdR-b1-00042033.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.7
8.5

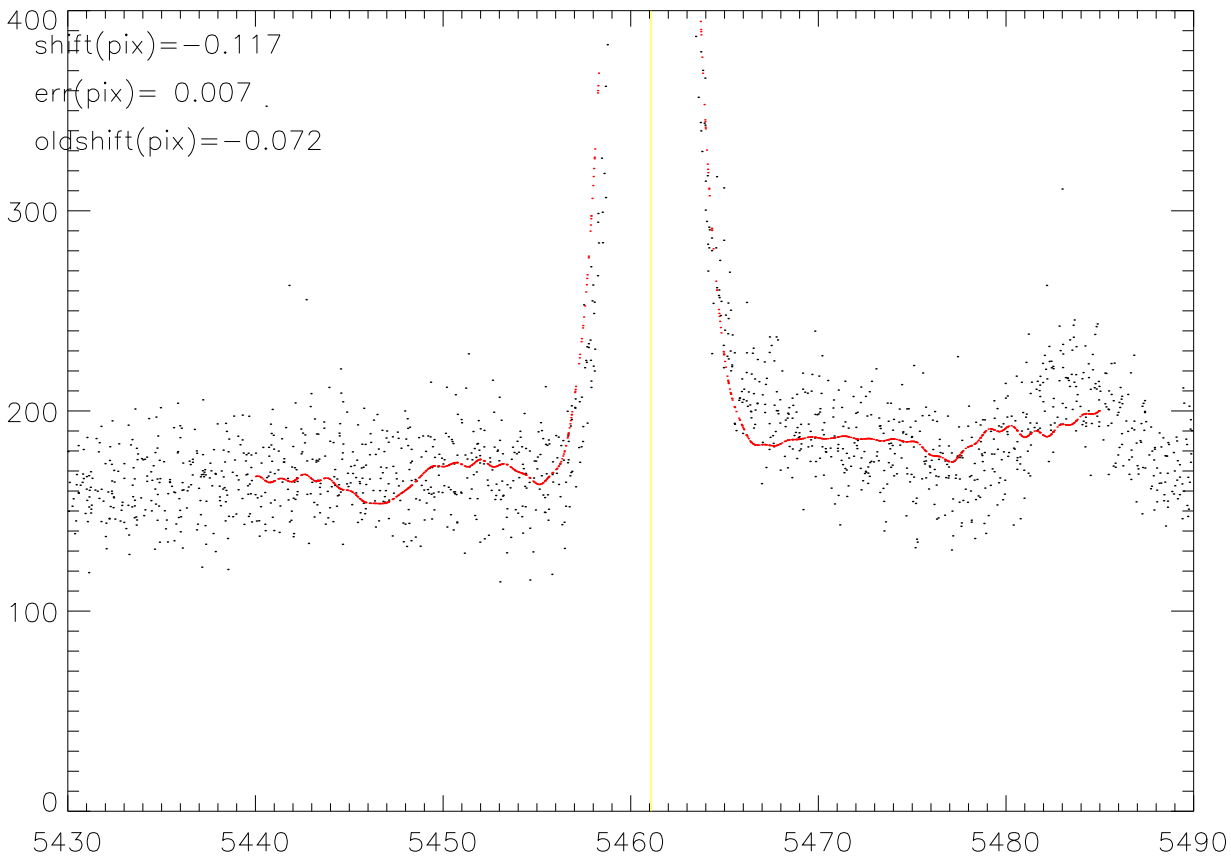

PLATE=2673 MJD=54087 Scattered Light on sdR-b1-00042033.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.118
Max value = 8.864
Sun Feb 10 12:41:03 2008

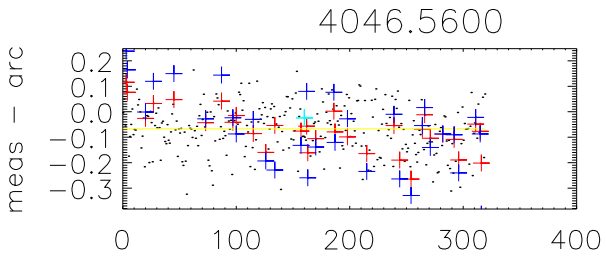

PLATE=2673 MJD=54087 Extraction chi^2 for sdR−b1−00042033.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

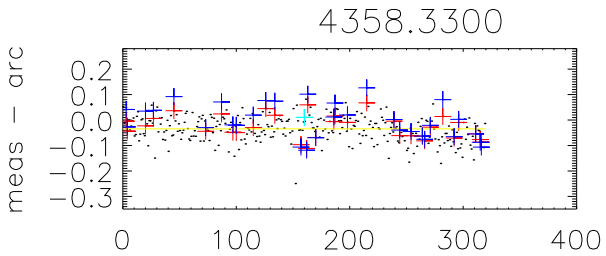

4046.5600
off: −0.08
sig: 0.031
4358.3300
off: 0.01
sig: 0.010
5460.9400
off: −0.07
sig: 0.006
5577.3390
off: −0.11
sig: 0.002
5889.9500
off: −0.17
sig: 0.004
5895.9240
off: −0.15
sig: 0.005

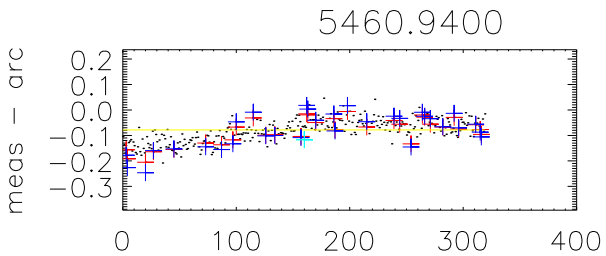

shift(pix)=−0.024
err(pix)= 0.032
oldshift(pix)=−0.084
400
300
200
100
0
4020
4030
4040
4050
4060
4070
4080

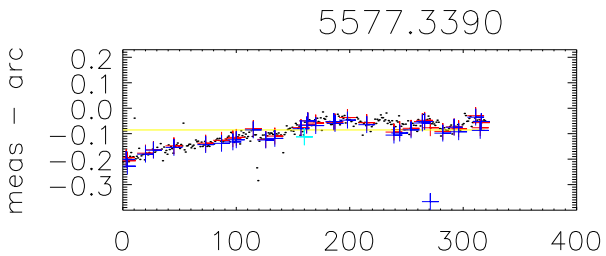

shift(pix)= 0.011
err(pix)= 0.012
oldshift(pix)= 0.005
400
300
200
100
0
4280
4300
4320
4340
4360
4380
4400
4420

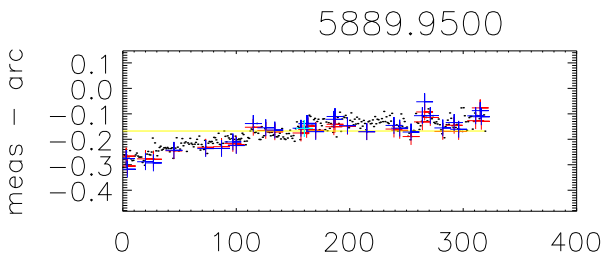

shift(pix)=−0.117
err(pix)= 0.007
oldshift(pix)=−0.072
400
300
200
100
0
5430
5440
5450
5460
5470
5480
5490

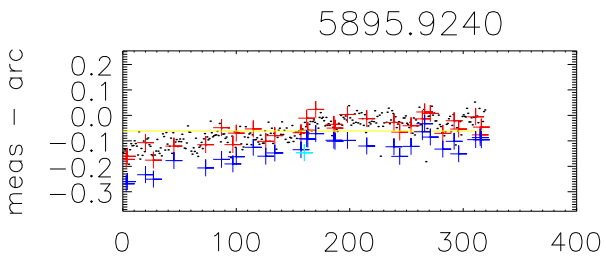

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

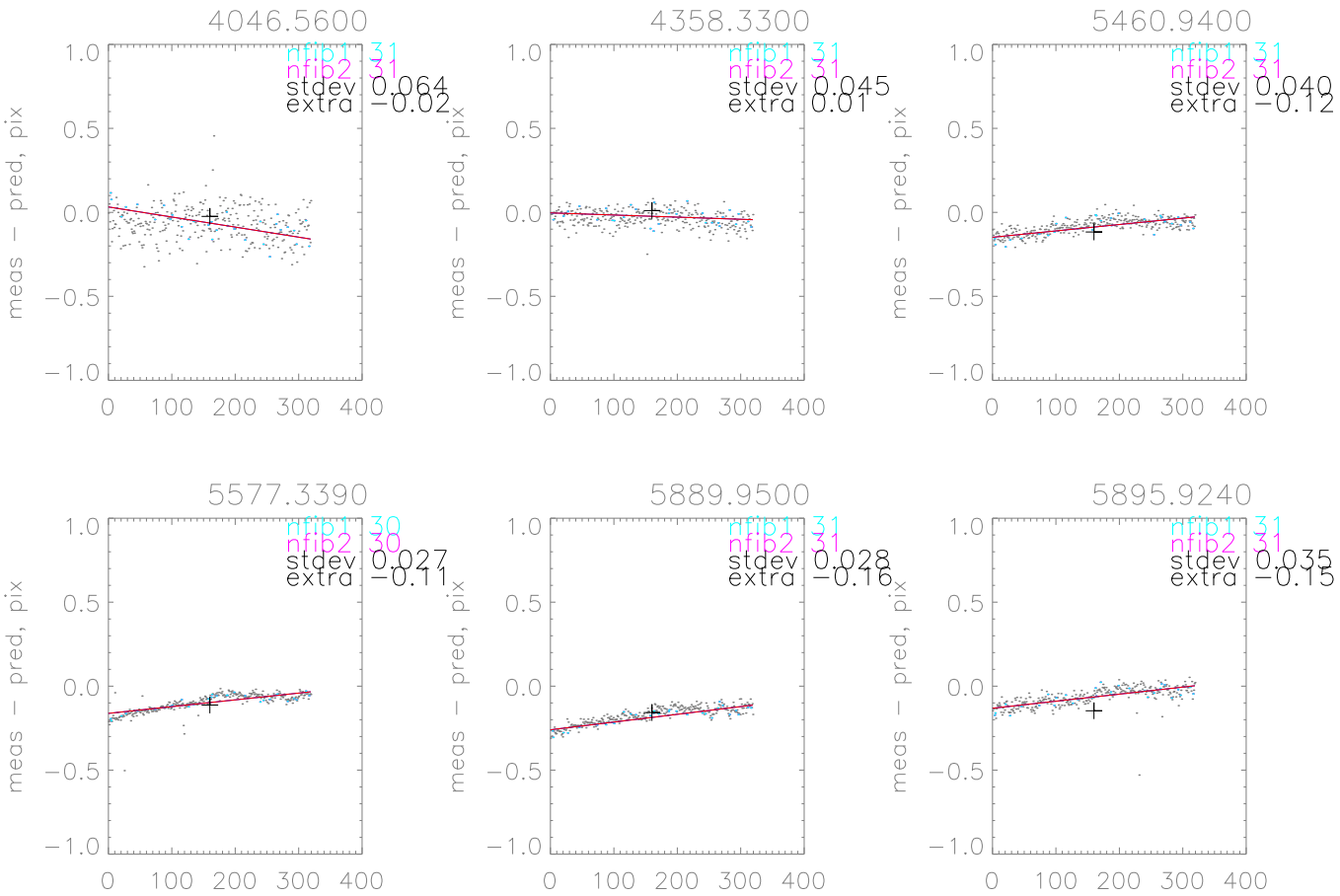

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

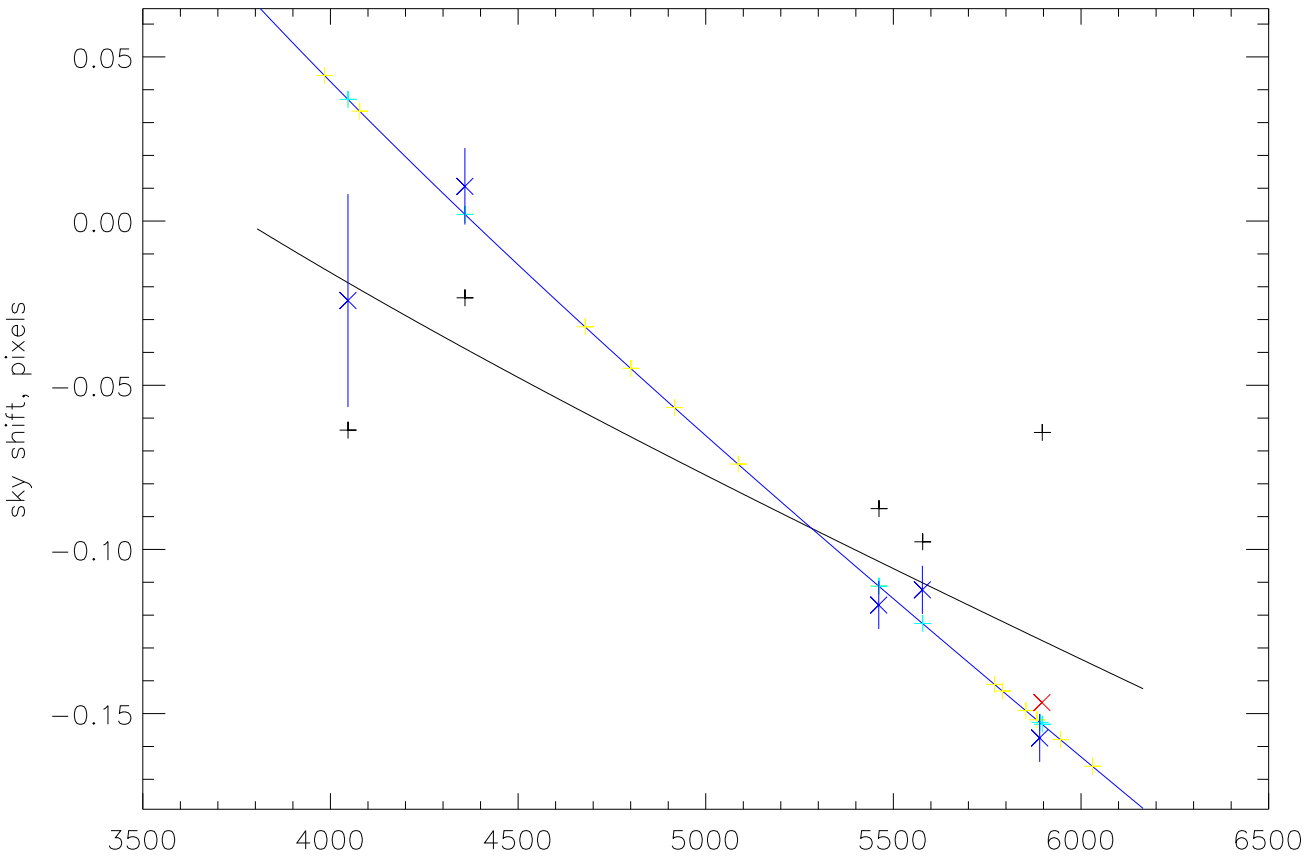

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

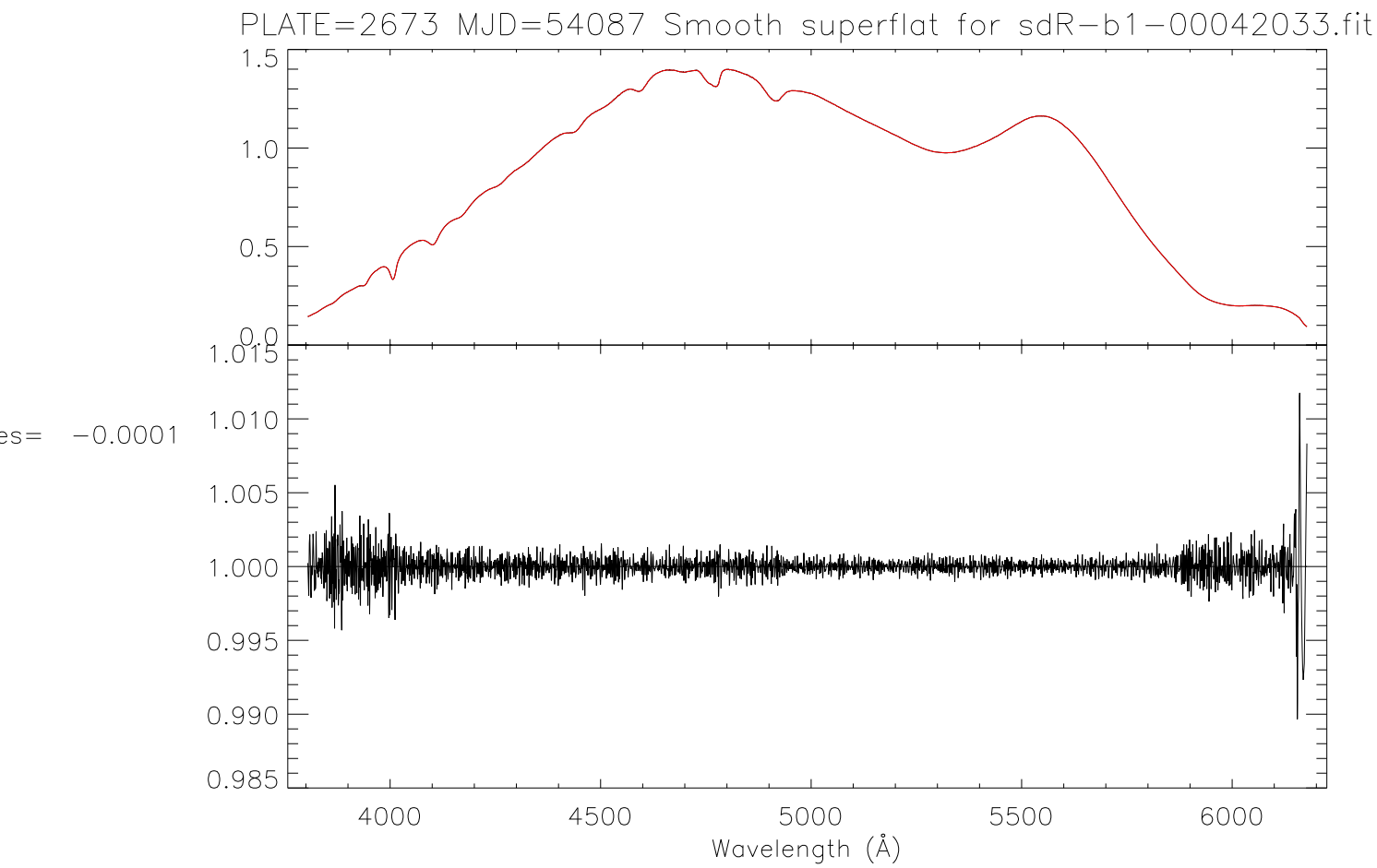

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

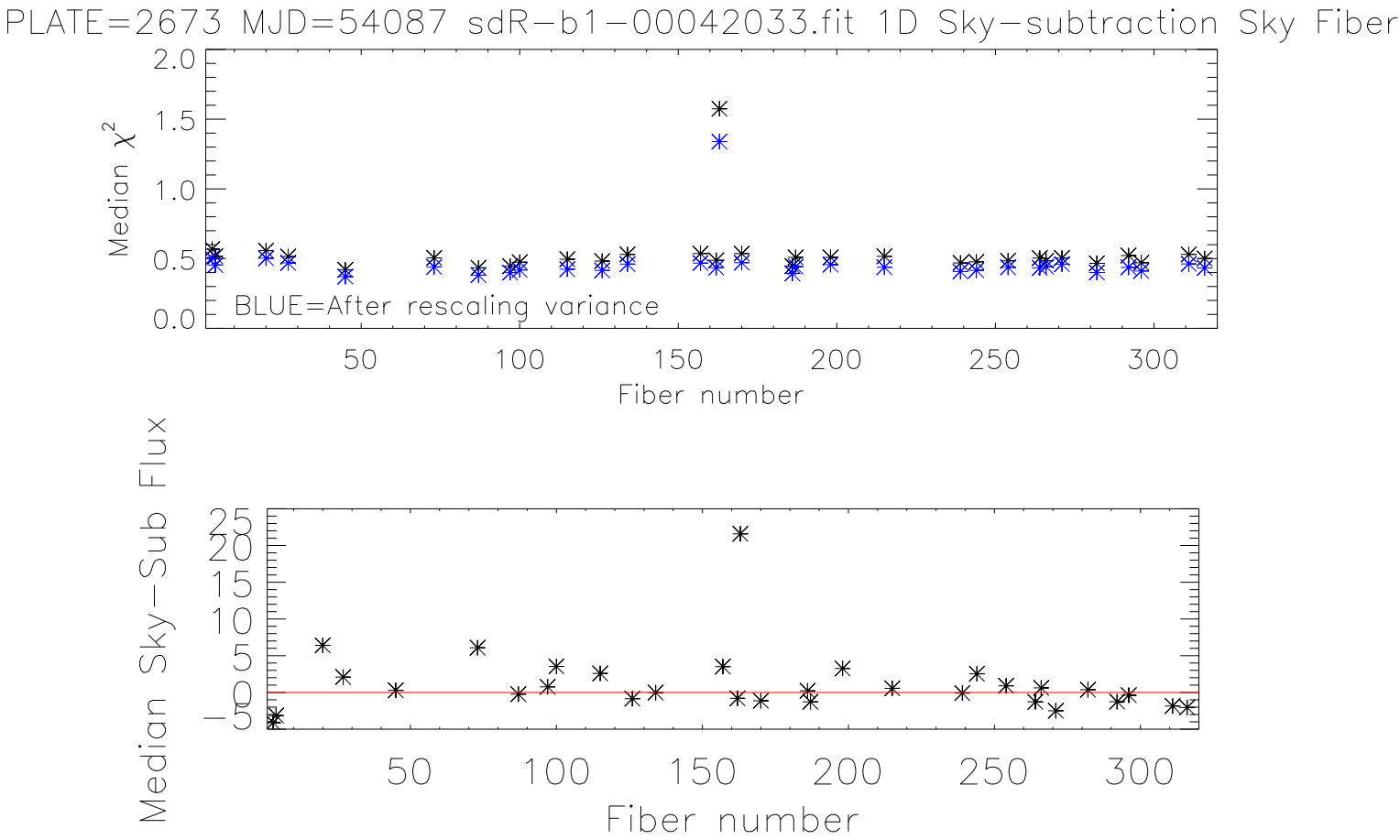

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

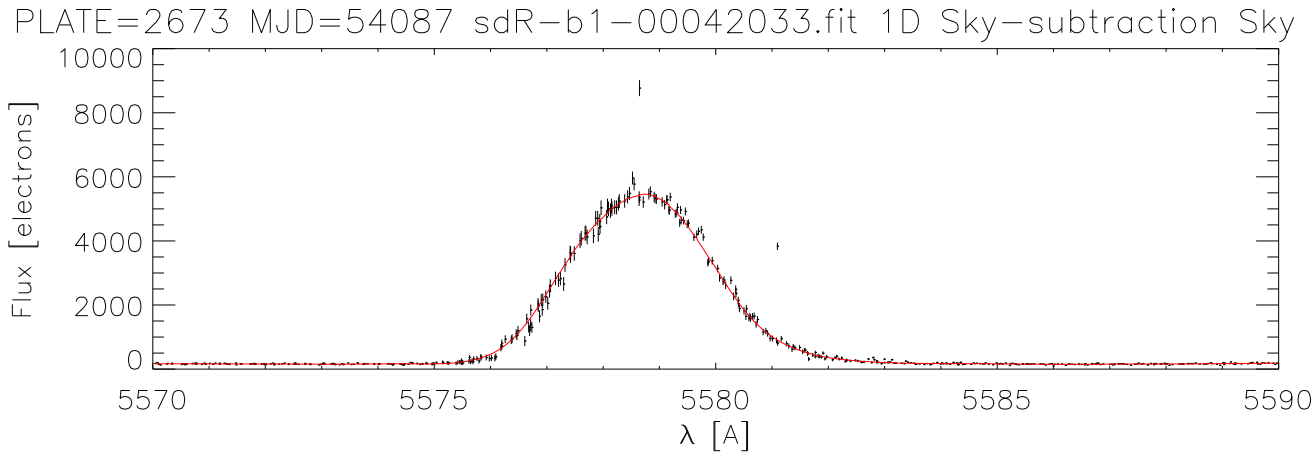

4046.5600
nfib1 31
nfib2 31
stdev 0.064
extra −0.02
4358.3300
nfib1 31
nfib2 31
stdev 0.045
extra 0.01
5460.9400
nfib1 31
nfib2 31
stdev 0.040
extra −0.12
5577.3390
nfib1 30
nfib2 30
stdev 0.027
extra −0.11
5889.9500
nfib1 31
nfib2 31
stdev 0.028
extra −0.16
5895.9240
nfib1 31
nfib2 31
stdev 0.035
extra −0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

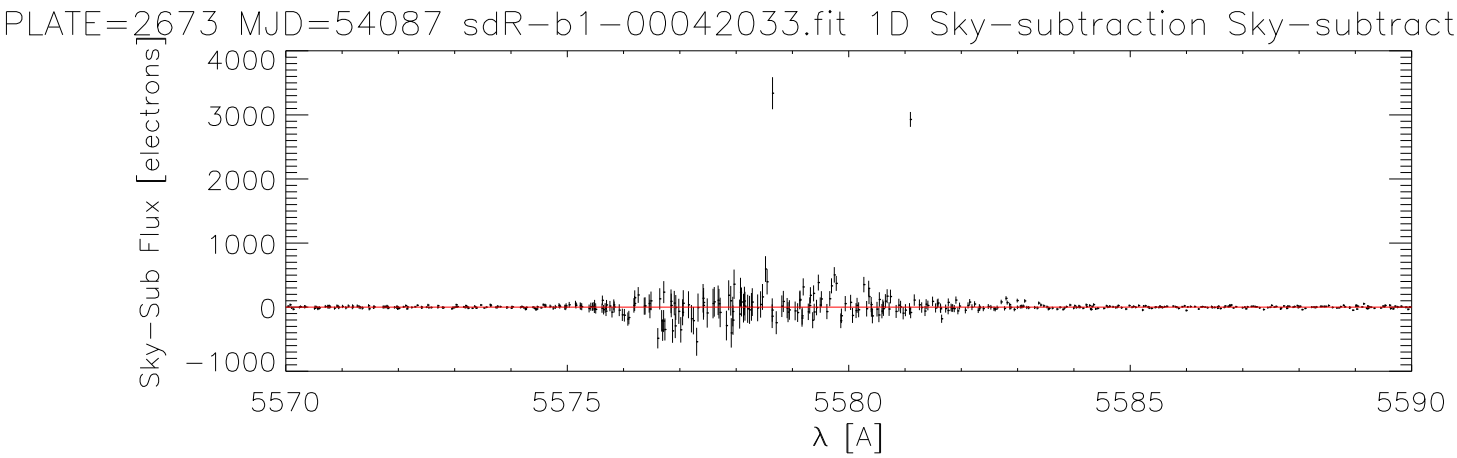

0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

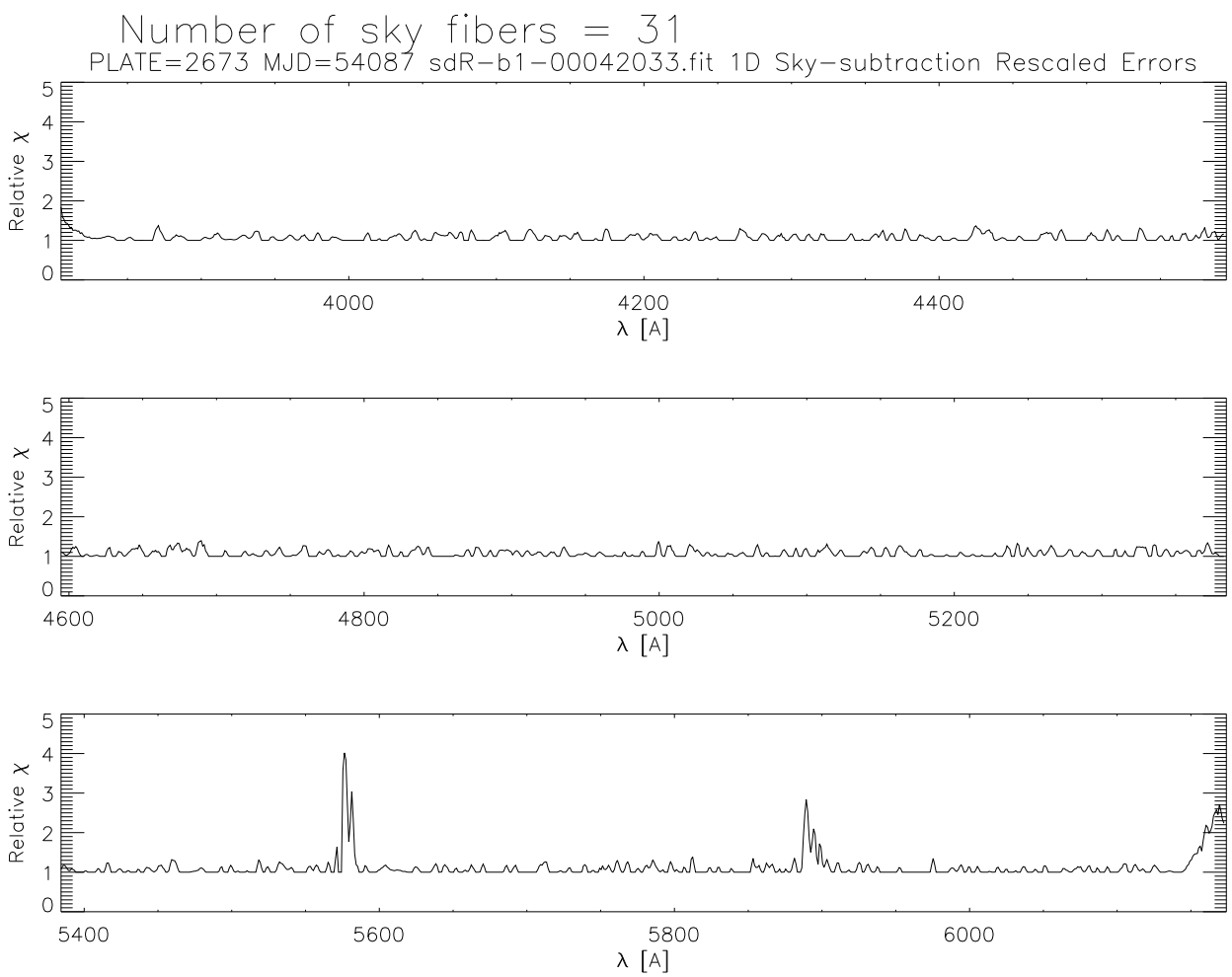

PLATE=2673 MJD=54087 Smooth superflat for sdR-b1-00042033.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

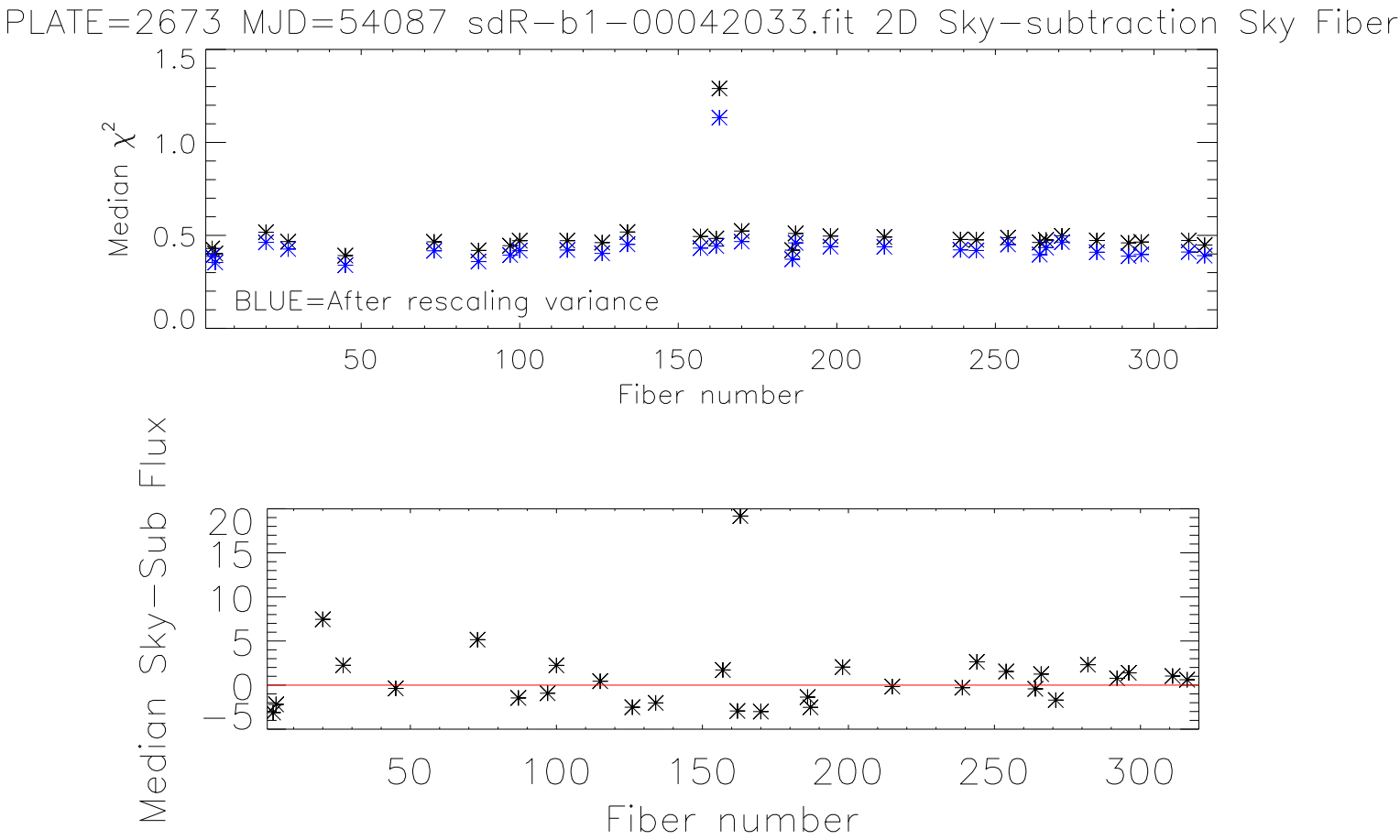
es= −0.0001

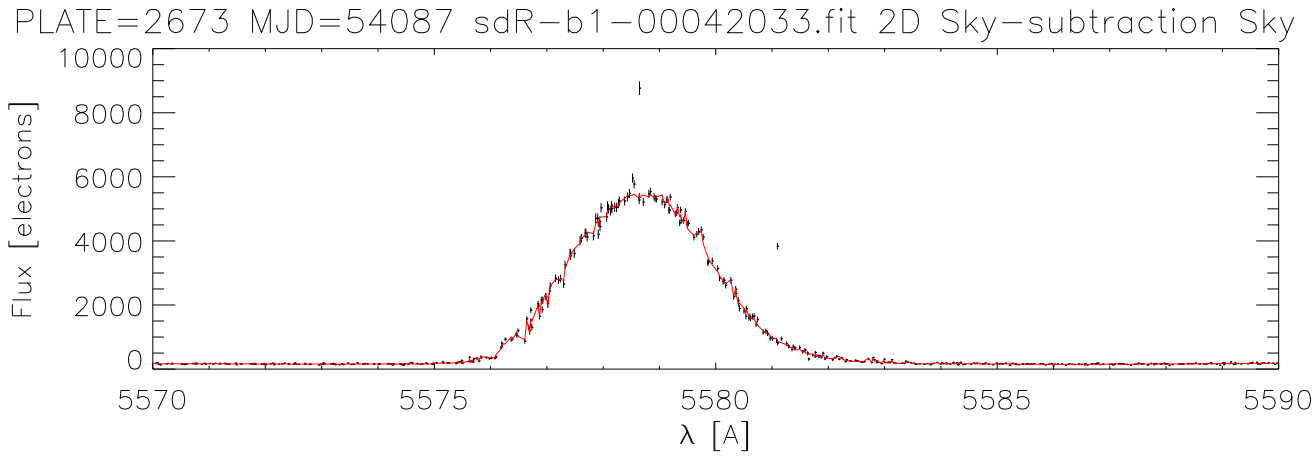

PLATE=2673 MJD=54087 sdR-b1-00042033.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

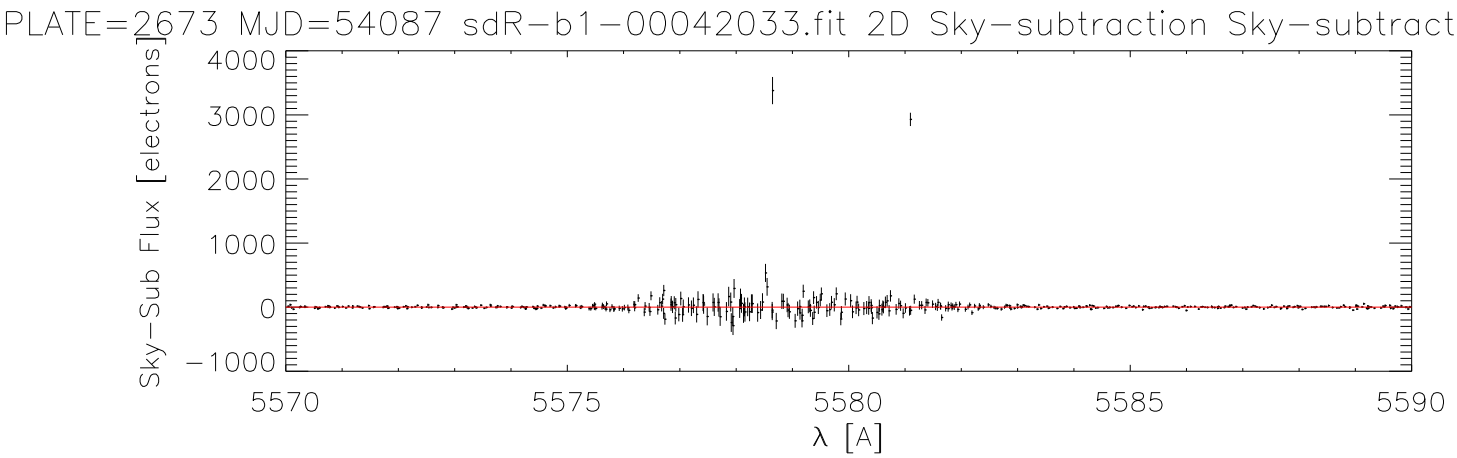

PLATE=2673 MJD=54087 sdR-b1-00042033.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

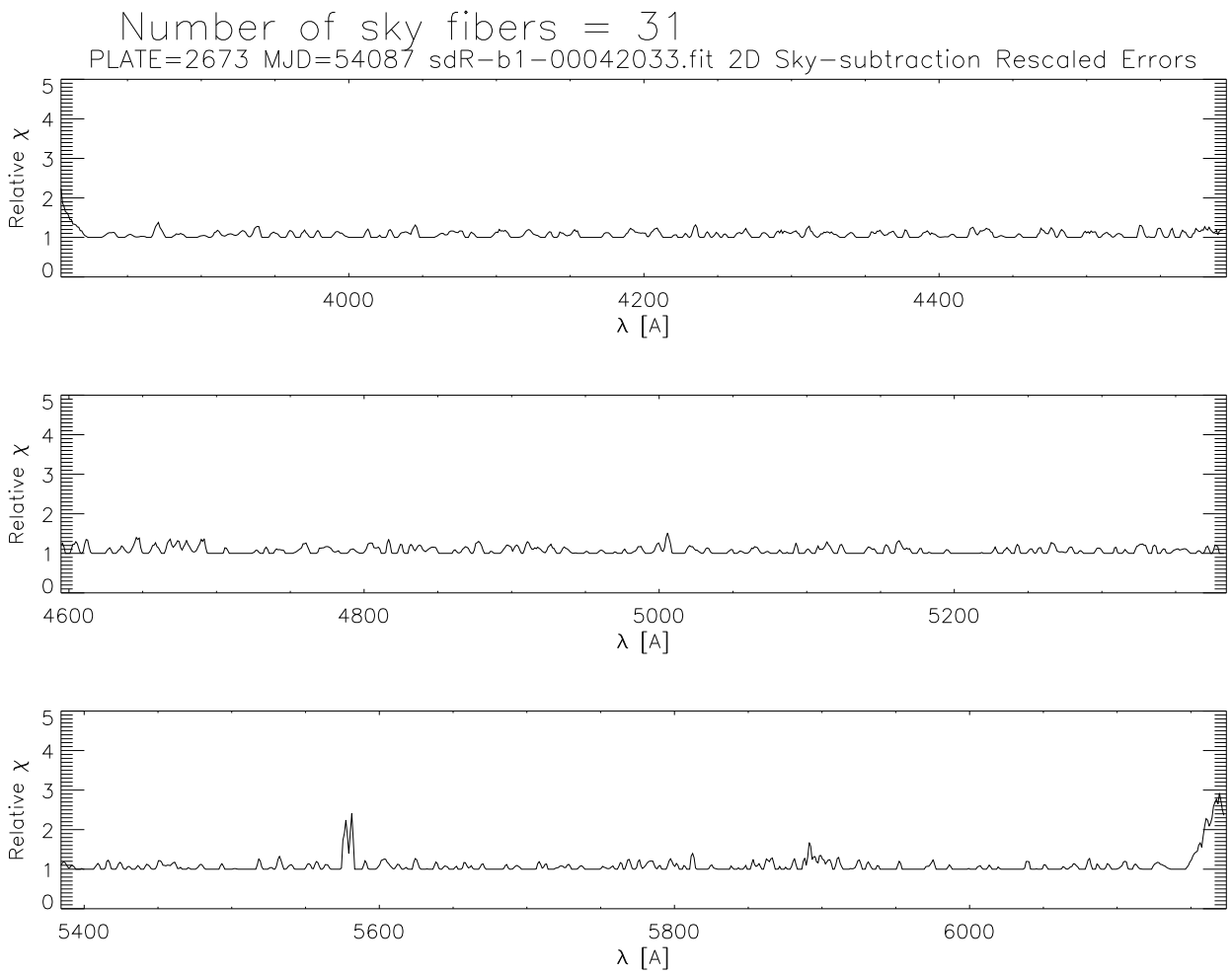

PLATE=2673 MJD=54087 sdR-b1-00042033.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

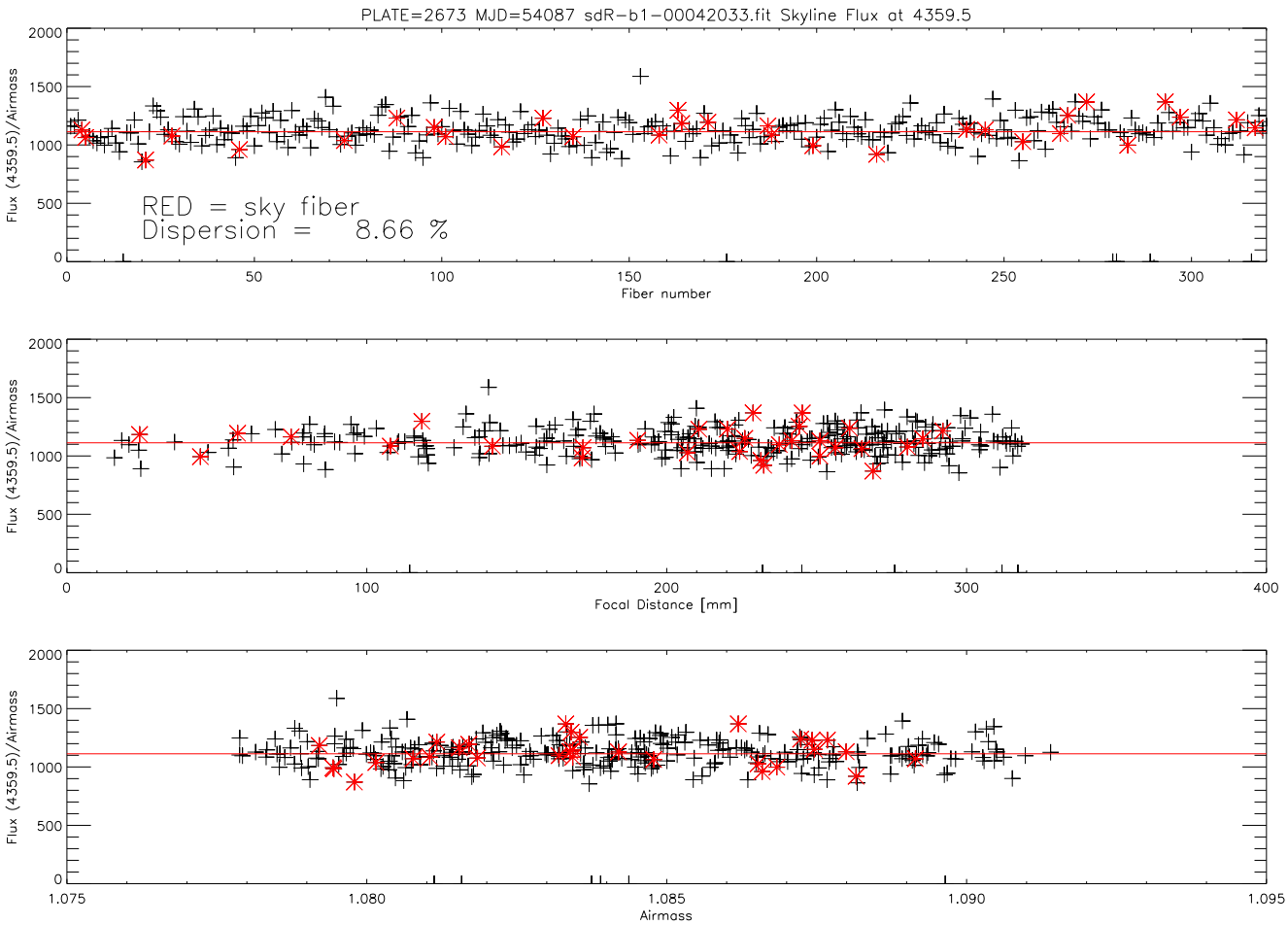

Number of sky fibers = 31
PLATE=2673 MJD=54087 sdR-b1-00042033.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

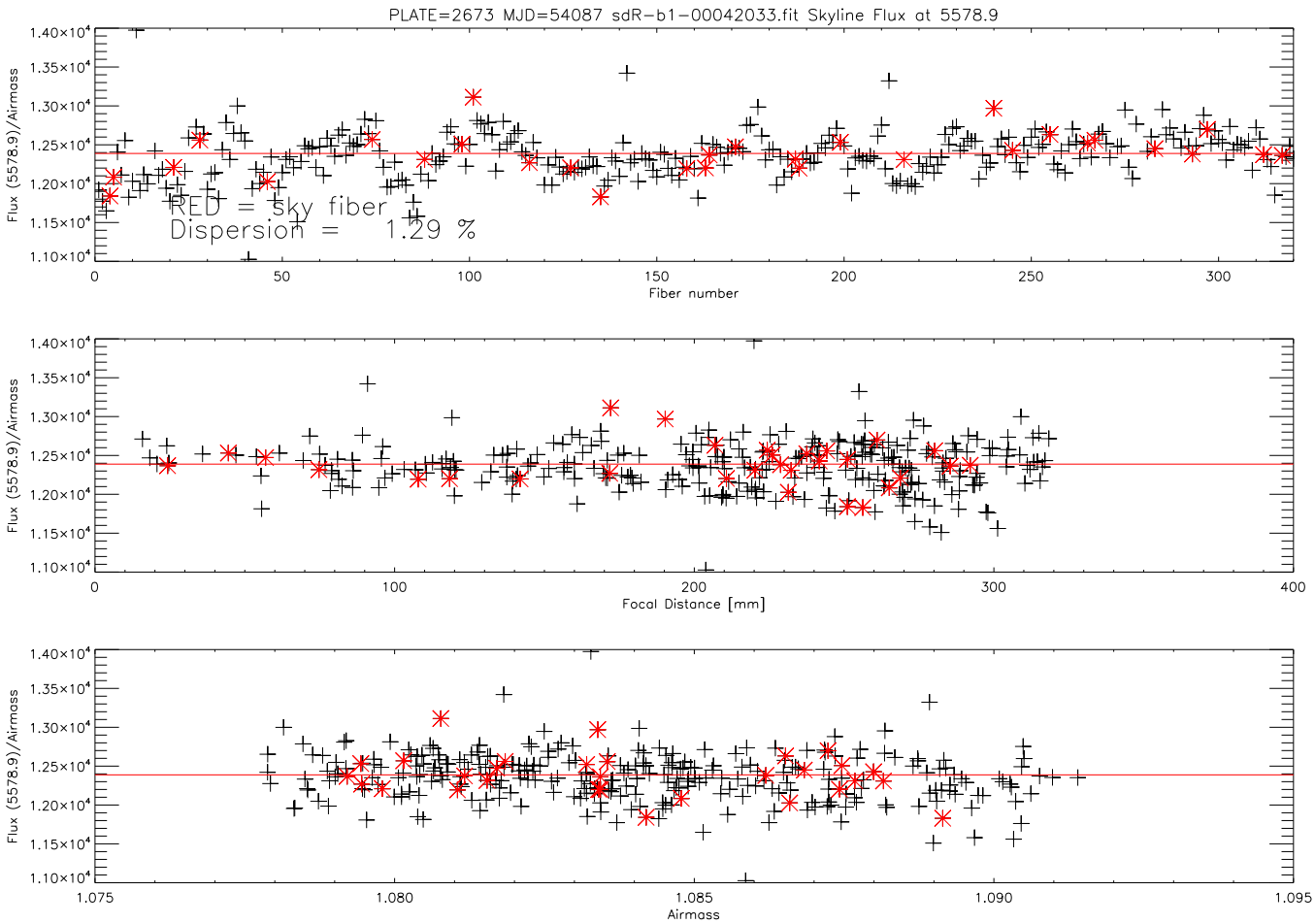

PLATE=2673 MJD=54087 sdR-b1-00042033.fit 2D Sky-subtraction Sky Fiber
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
15
10
5
0
-5
50
100
150
200
250
300
Fiber number

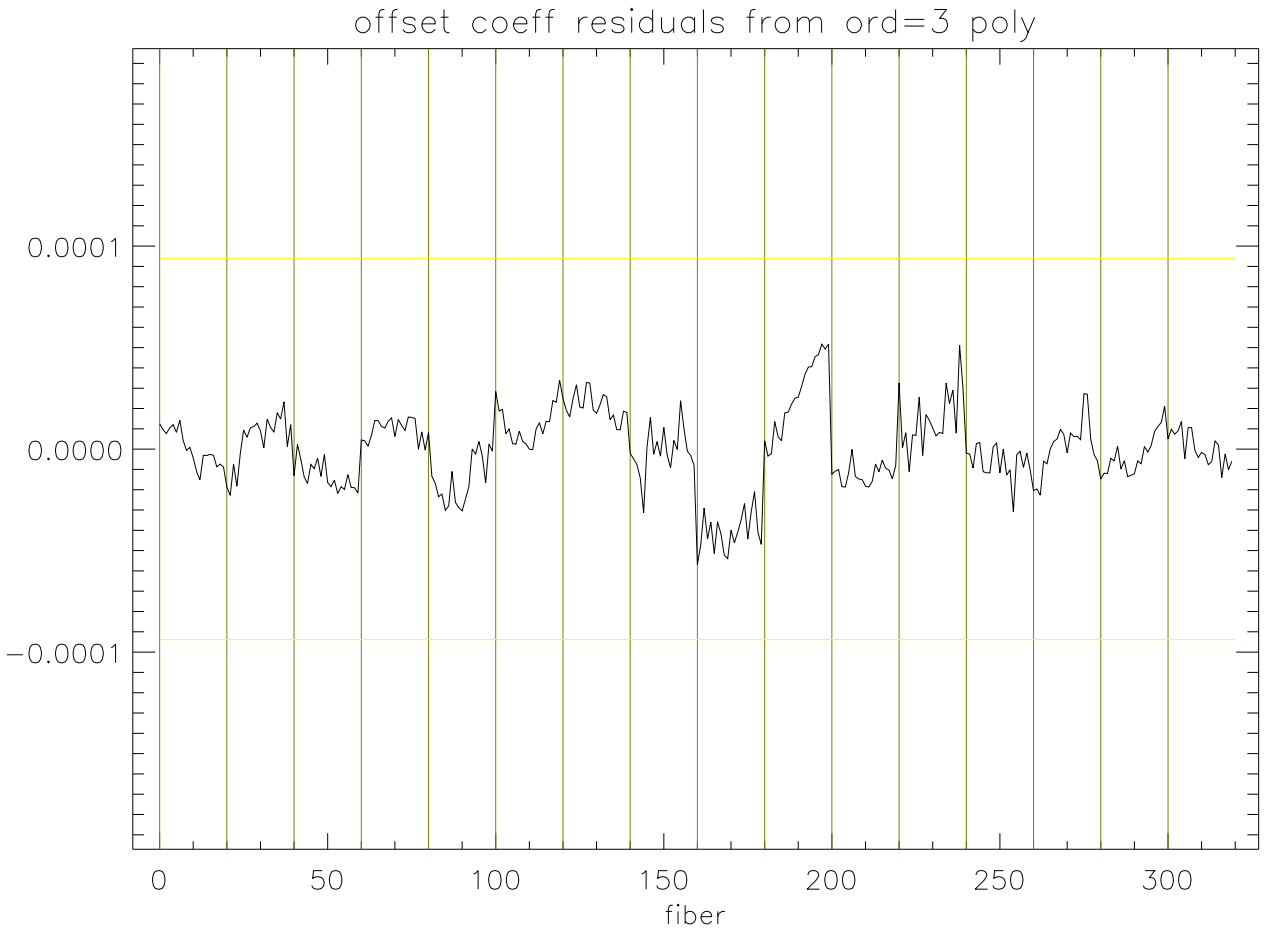

PLATE=2673 MJD=54087 sdR-b1-00042033.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

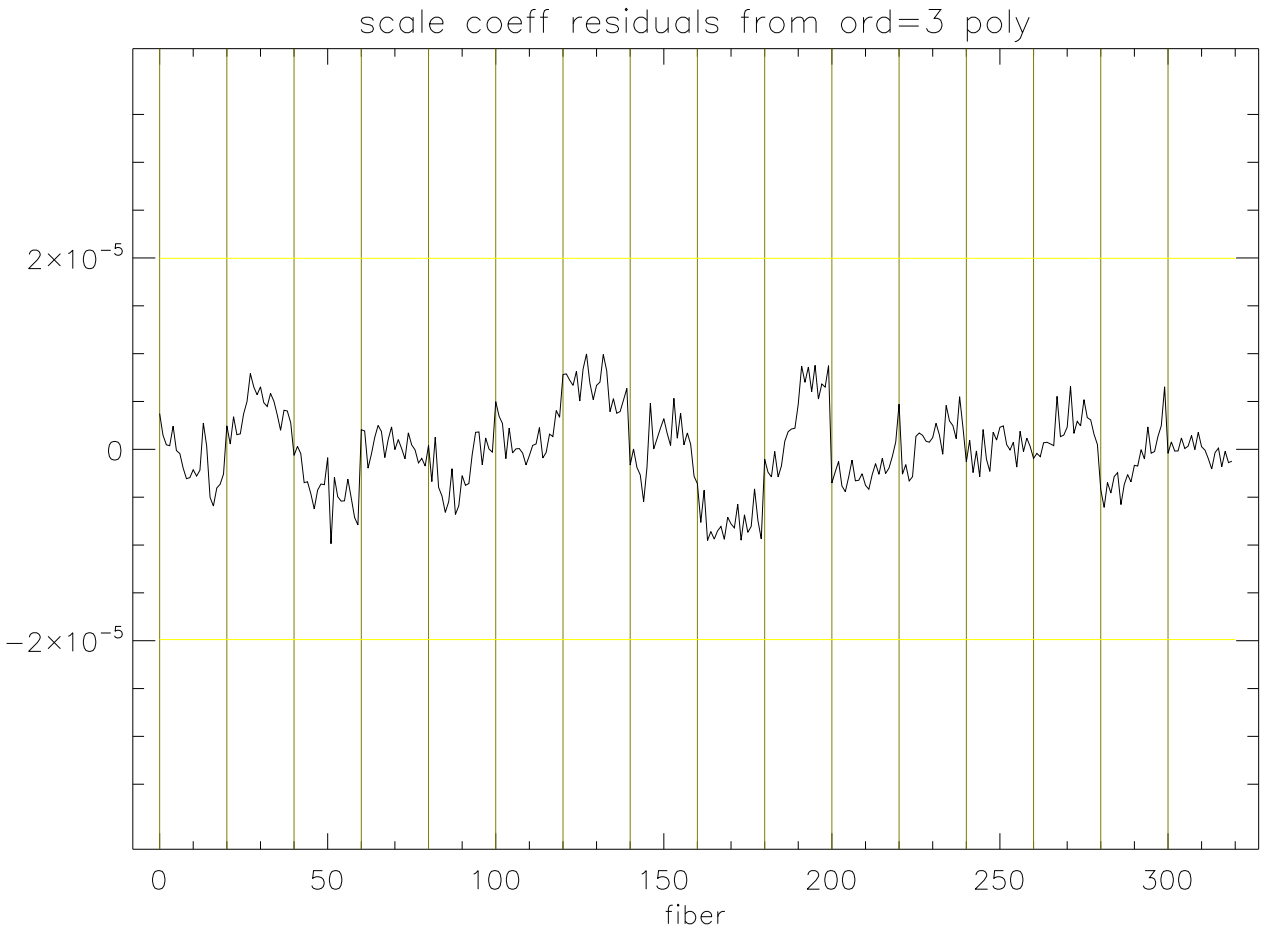

PLATE=2673 MJD=54087 sdR-b1-00042033.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

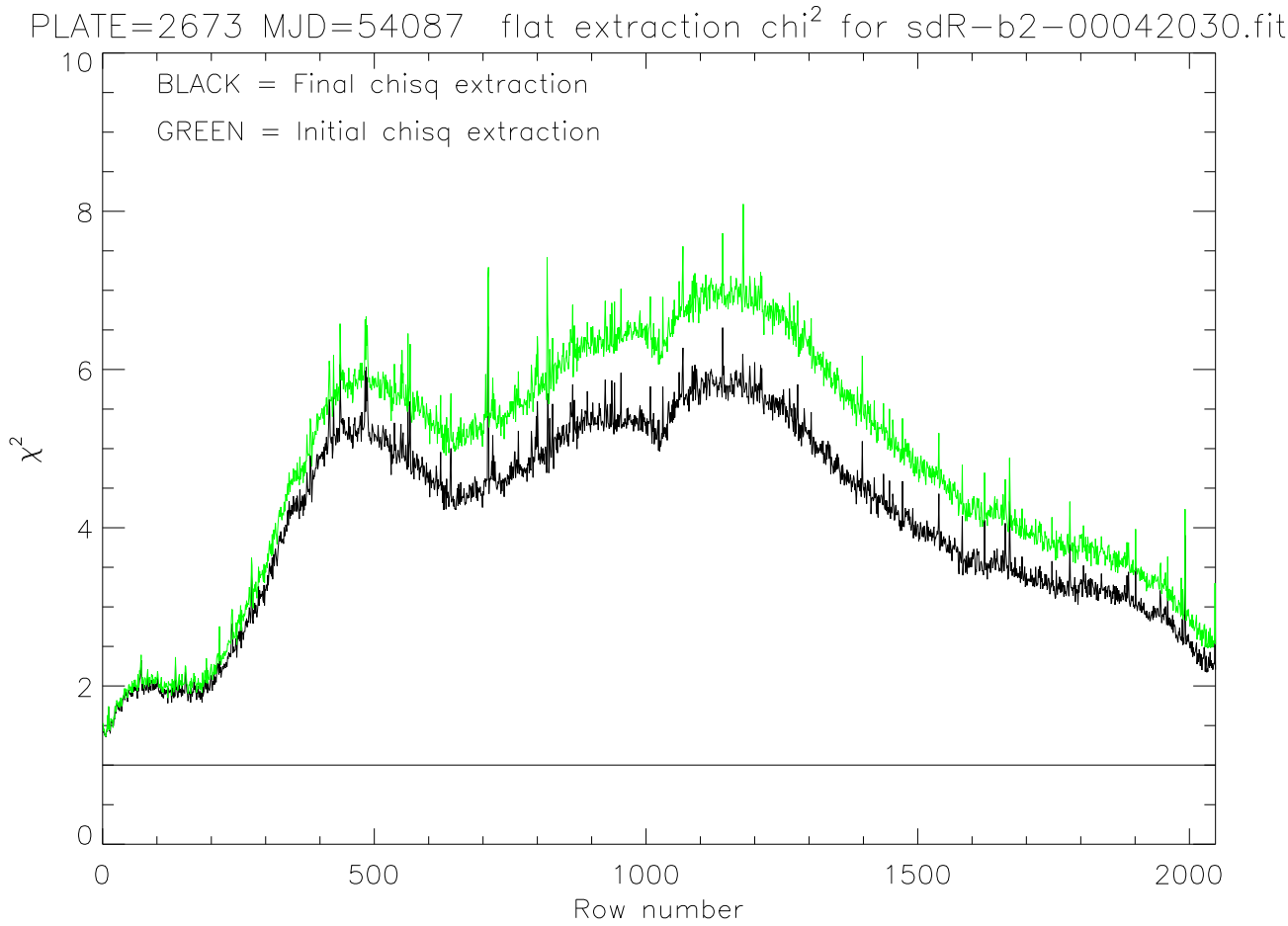

Number of sky fibers = 31
PLATE=2673 MJD=54087 sdR-b1-00042033.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

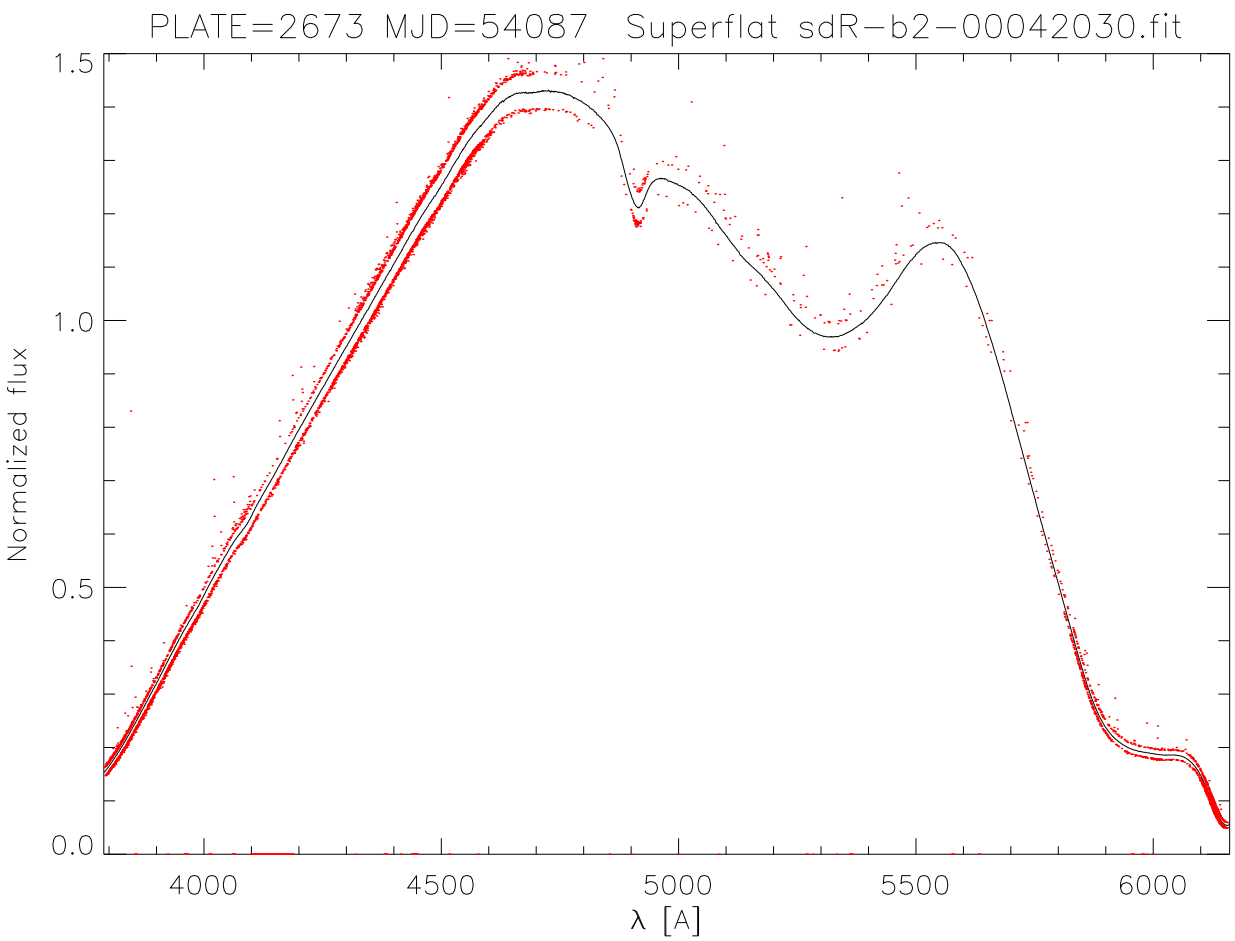

PLATE=2673 MJD=54087 sdR-b1-00042033.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.66 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

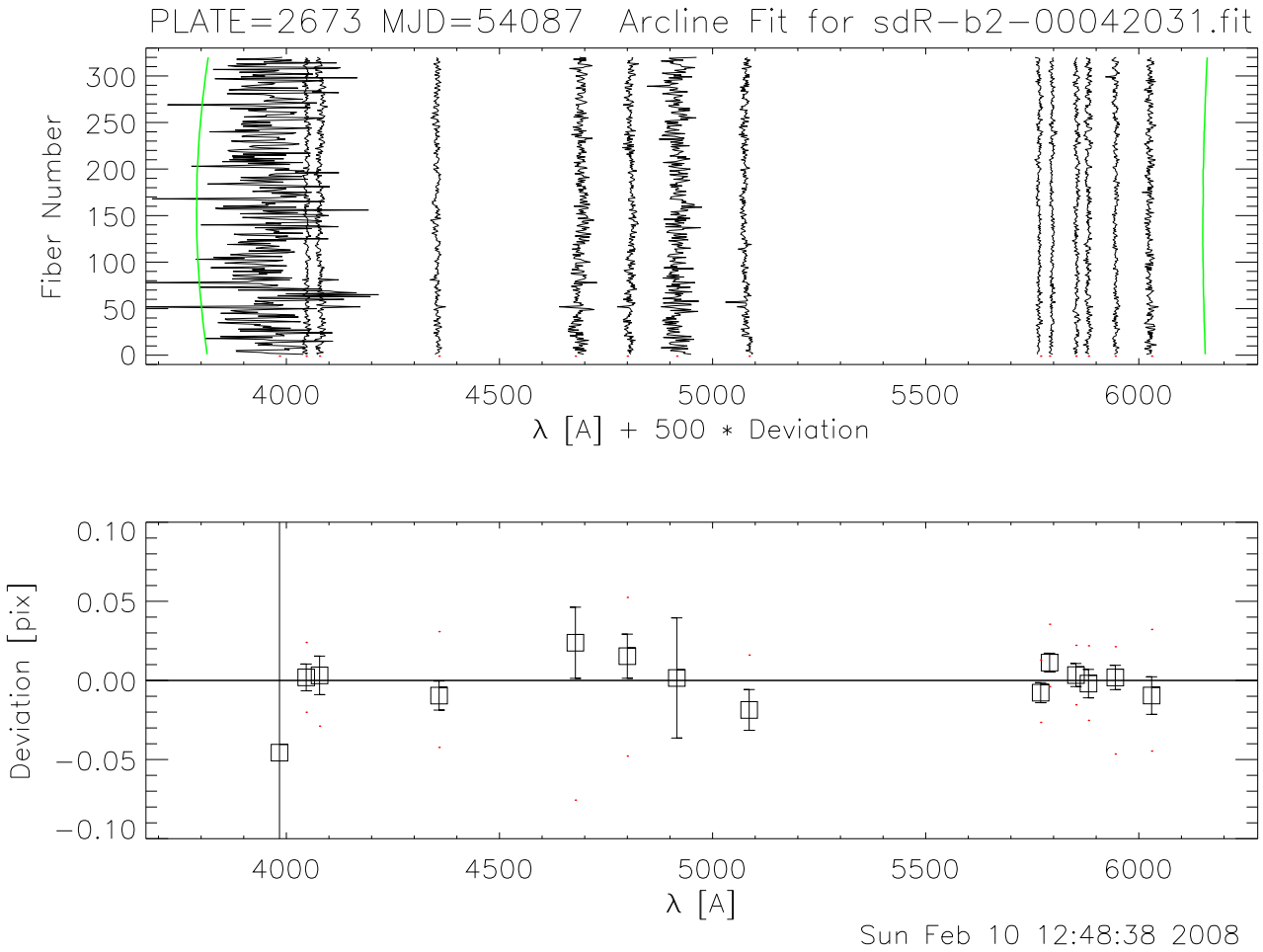

PLATE=2673 MJD=54087 sdR-b1-00042033.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.29 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

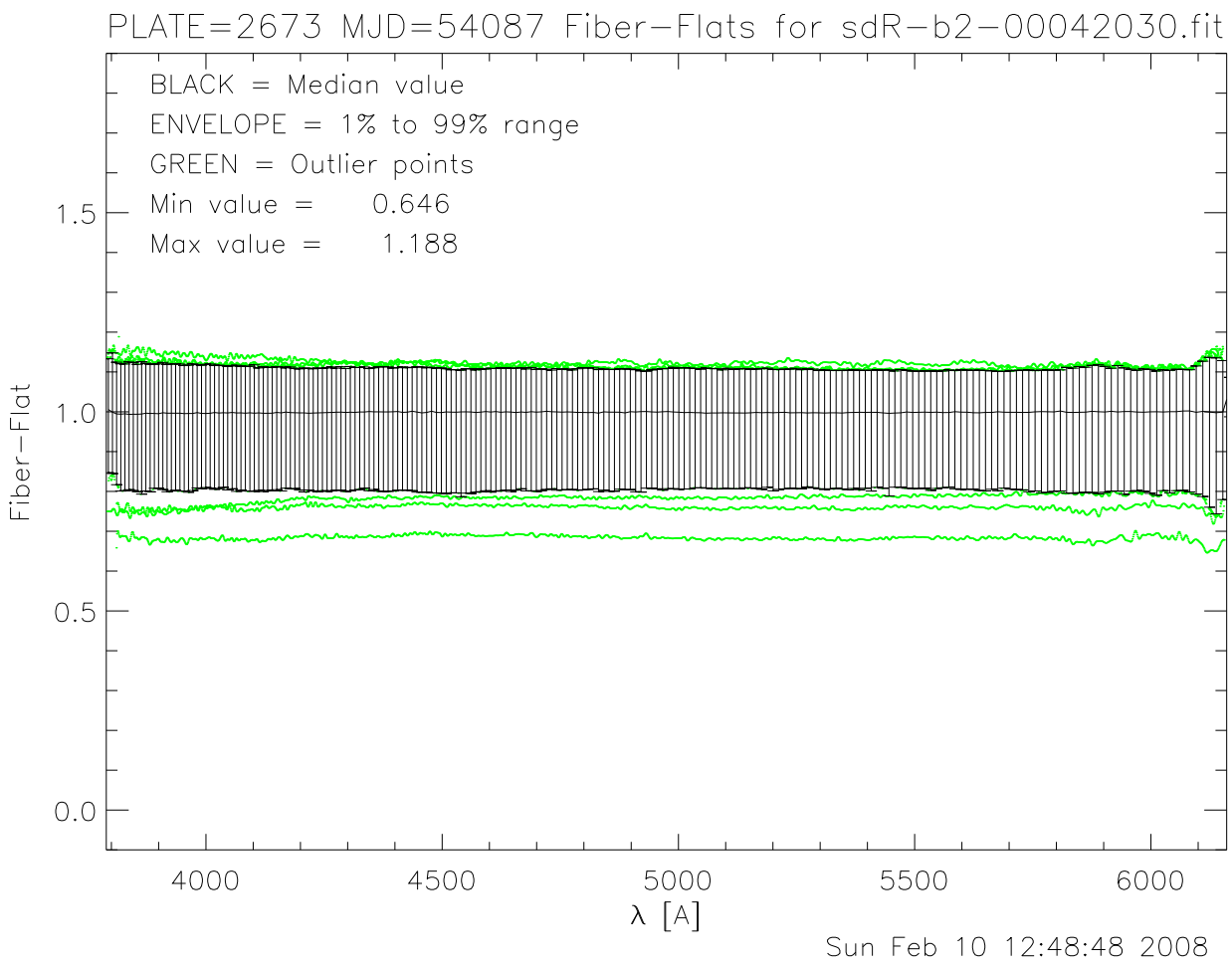

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

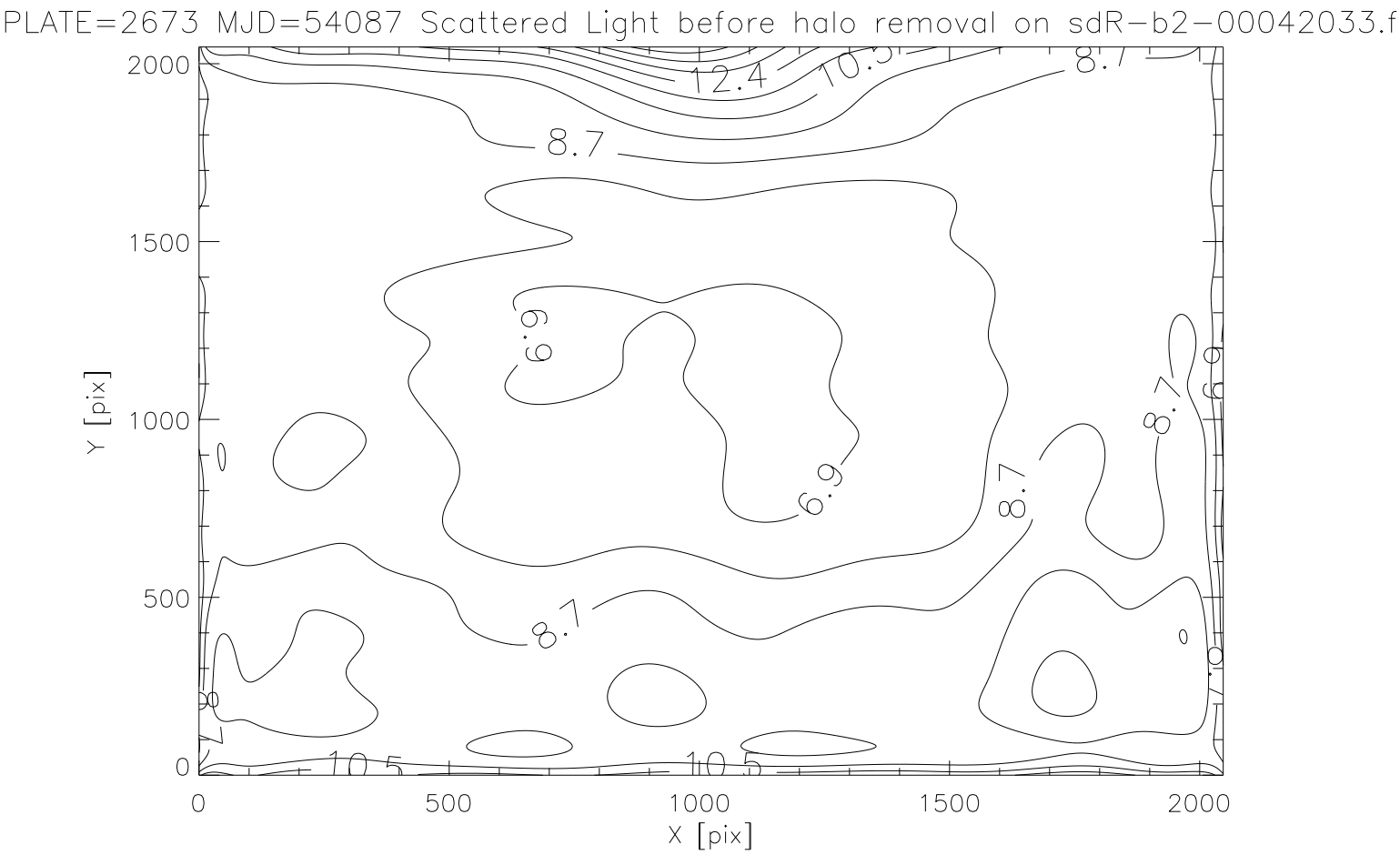

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

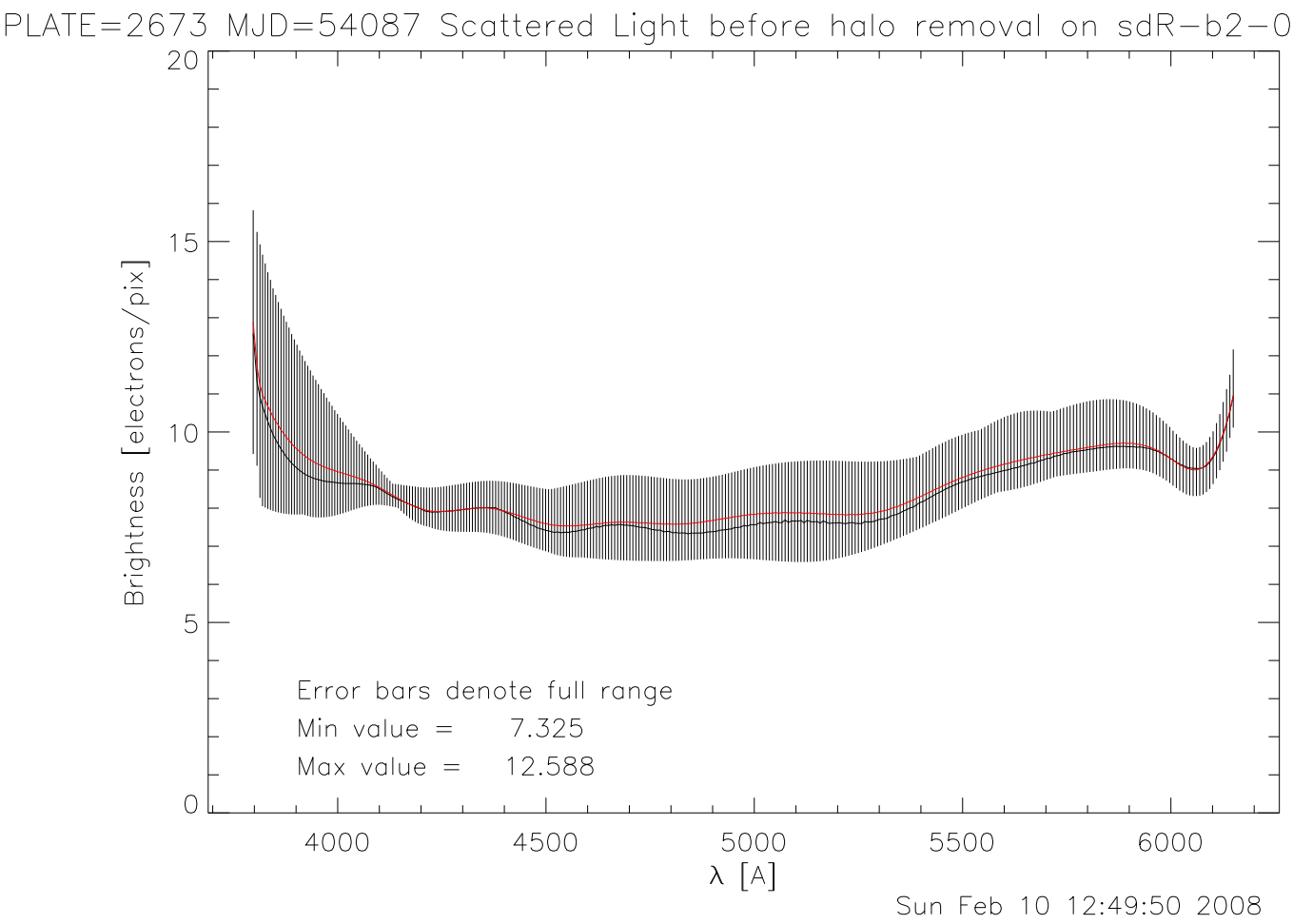

PLATE=2673 MJD=54087 flat extraction chi^2 for sdR−b2−00042030.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

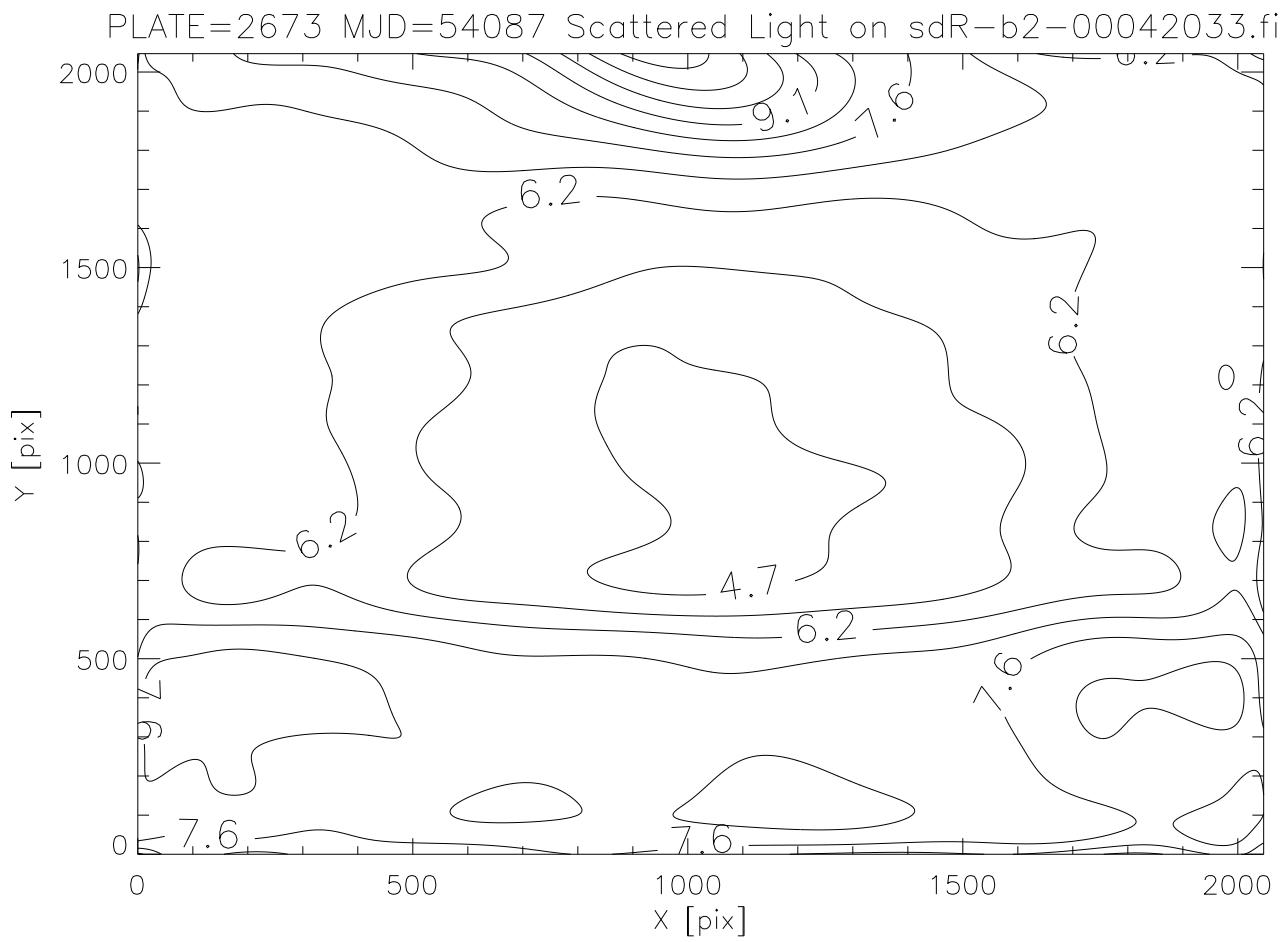

PLATE=2673 MJD=54087 Superflat sdR-b2-00042030.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

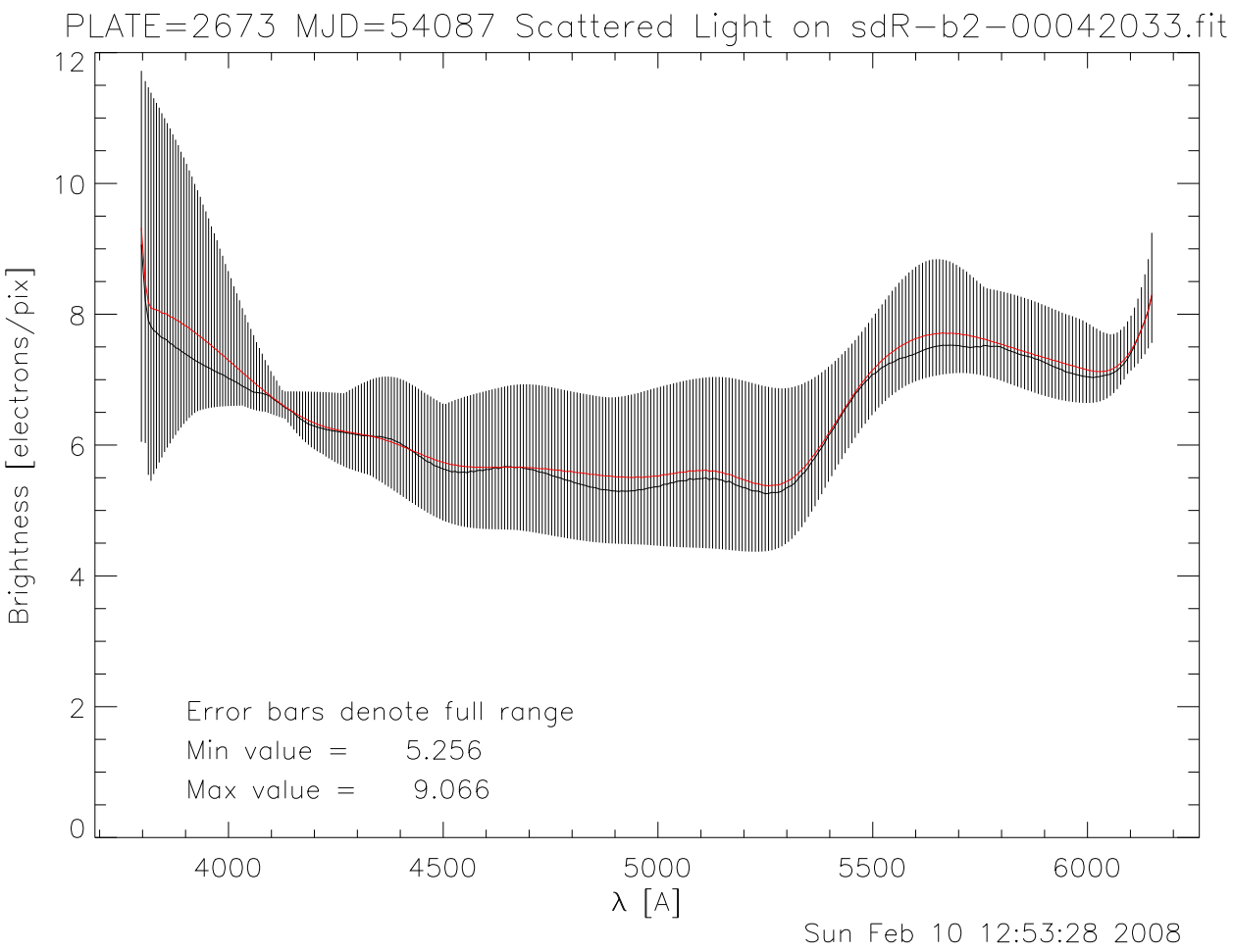

PLATE=2673 MJD=54087 Arcline Fit for sdR-b2-00042031.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
0.10
0.05
0.00
−0.05
−0.10
Deviation [pix]
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 12:48:38 2008

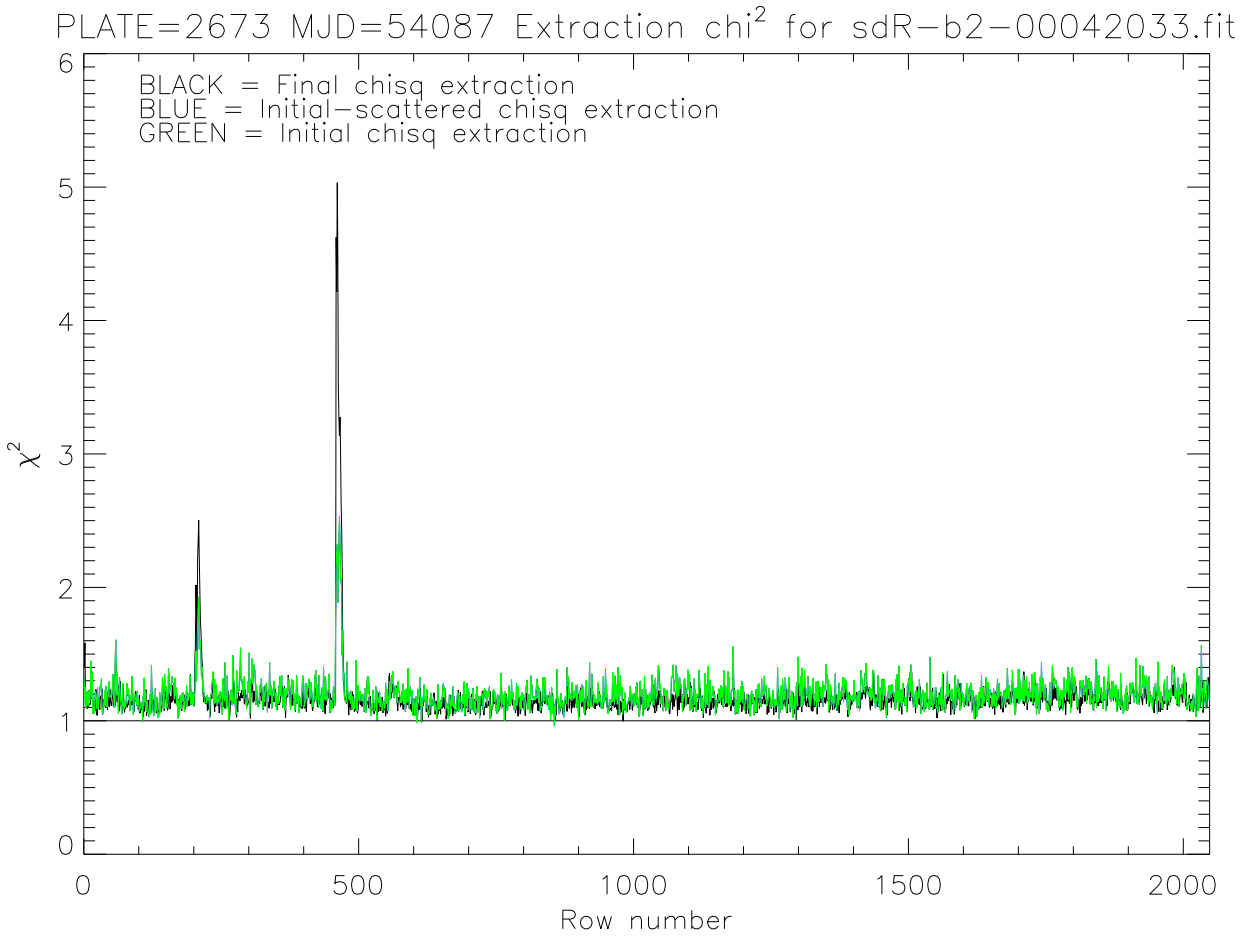

PLATE=2673 MJD=54087 Fiber-Flats for sdR-b2-00042030.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.646
Max value = 1.188
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 12:48:48 2008

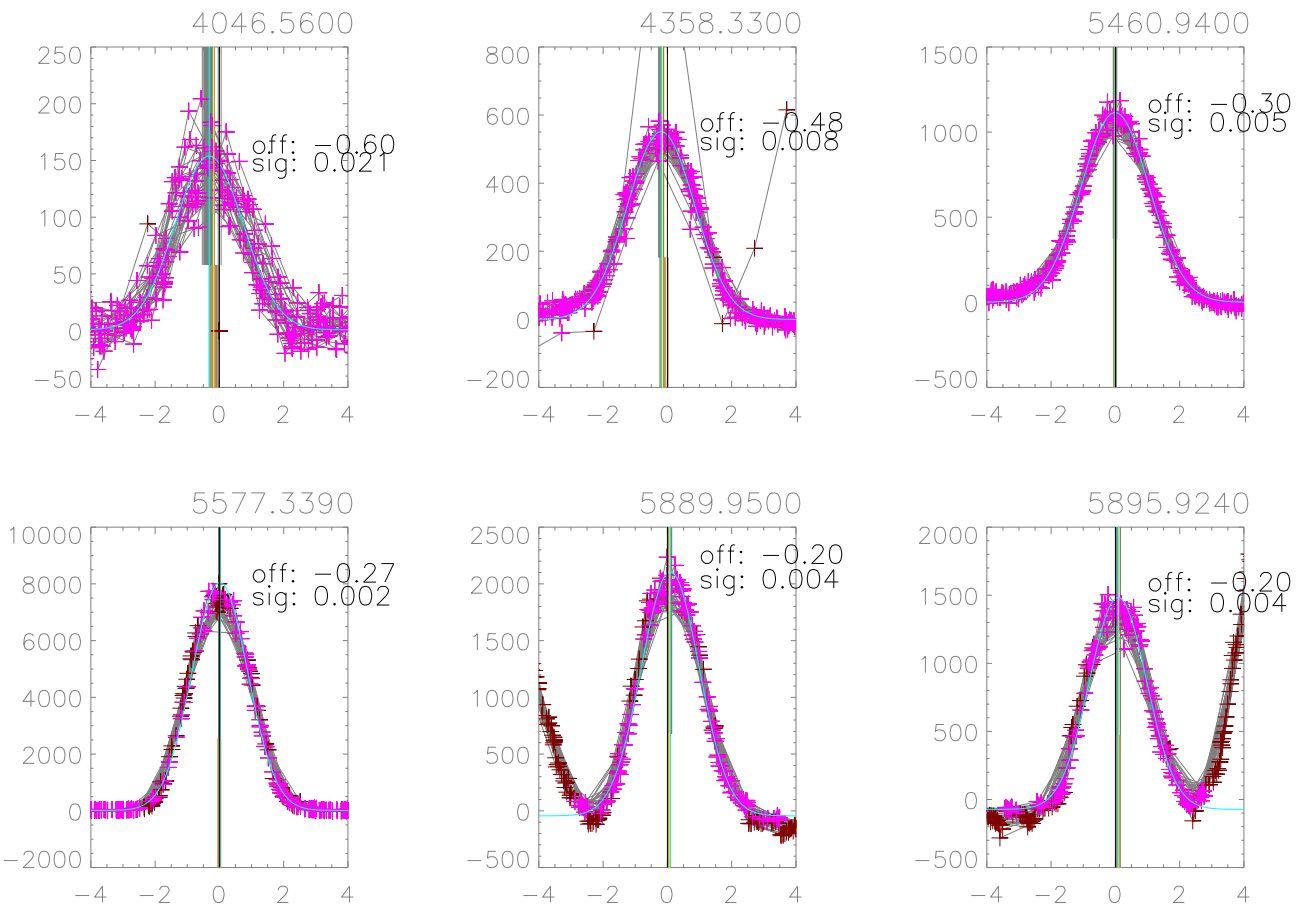

PLATE=2673 MJD=54087 Scattered Light before halo removal on sdR−b2−00042033.f
Y [pix]
X [pix]
0
500
1000
1500
2000
12.4
10.5
8.7
6.9

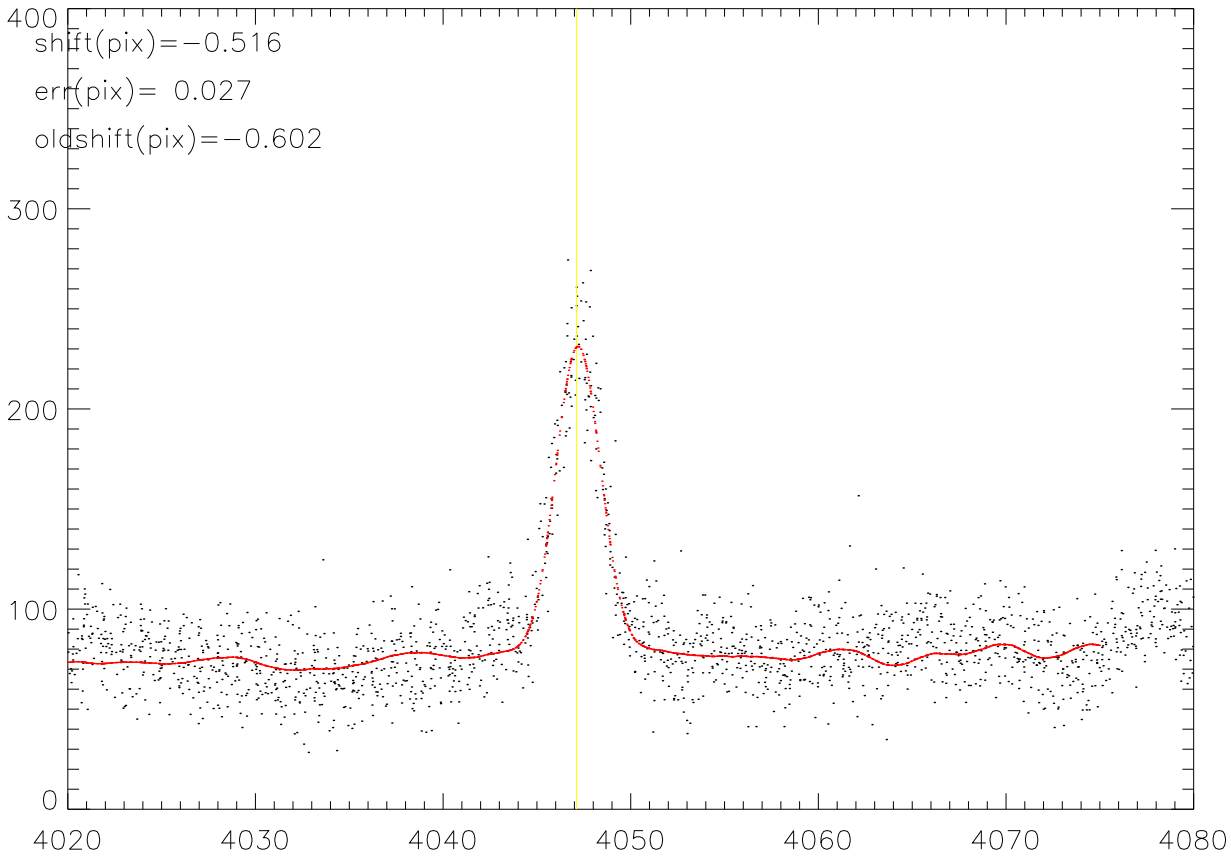

PLATE=2673 MJD=54087 Scattered Light before halo removal on sdR−b2−00042033.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.325
Max value = 12.588
4000
4500
5000
5500
6000
λ [A]
Sun Feb 10 12:49:50 2008

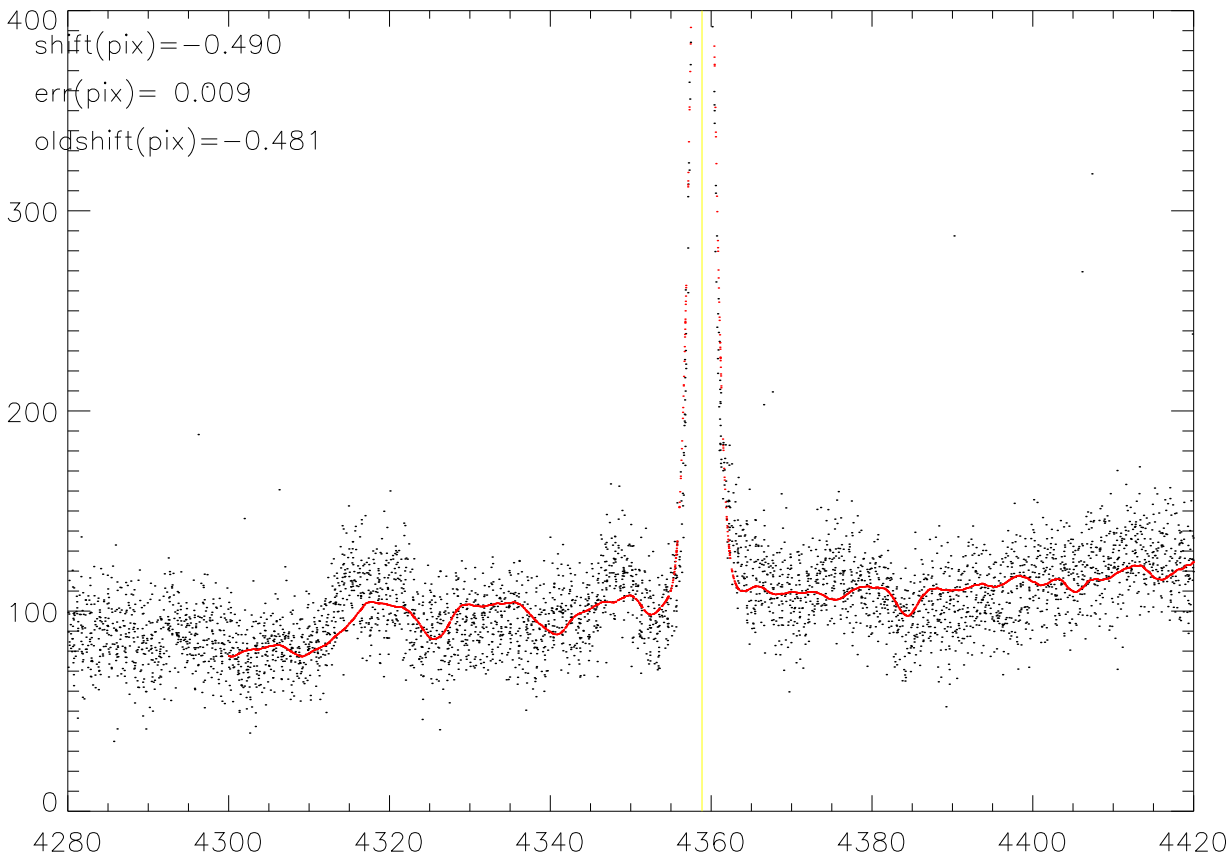

PLATE=2673 MJD=54087 Scattered Light on sdR-b2-00042033.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
7.6
6.2
4.7

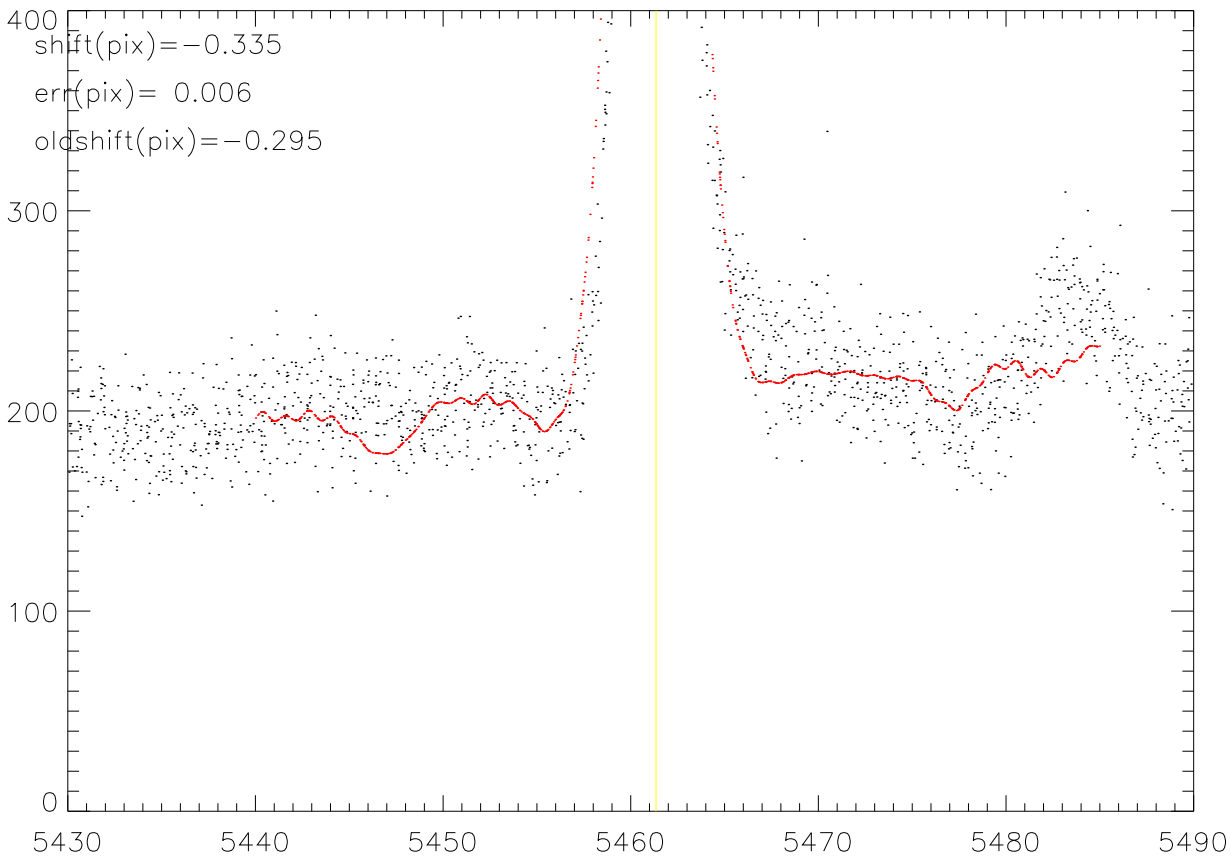

PLATE=2673 MJD=54087 Scattered Light on sdR-b2-00042033.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.256
Max value = 9.066
Sun Feb 10 12:53:28 2008

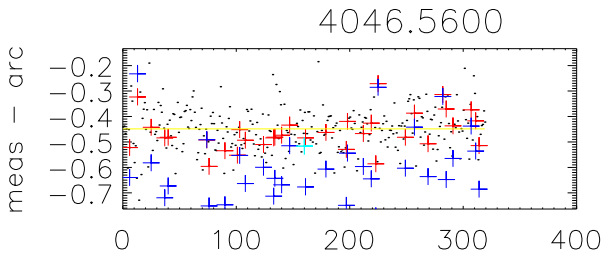

PLATE=2673 MJD=54087 Extraction chi^2 for sdR-b2-00042033.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

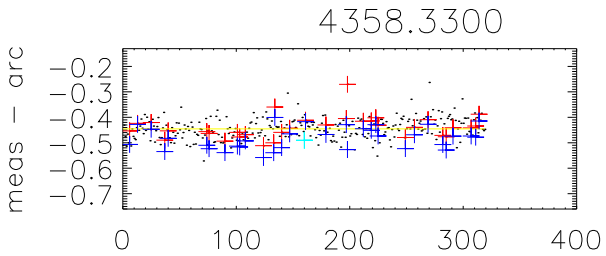

4046.5600
off: −0.60
sig: 0.021
4358.3300
off: −0.48
sig: 0.008
5460.9400
off: −0.30
sig: 0.005
5577.3390
off: −0.27
sig: 0.002
5889.9500
off: −0.20
sig: 0.004
5895.9240
off: −0.20
sig: 0.004

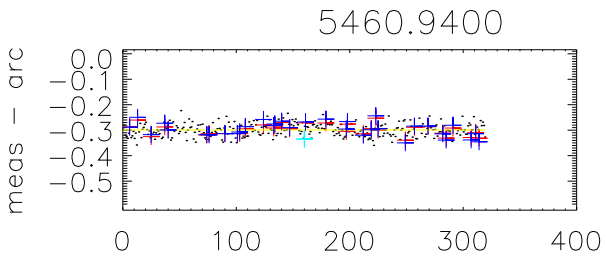

shift(pix)=−0.516
err(pix)= 0.027
oldshift(pix)=−0.602
400
300
200
100
0
4020
4030
4040
4050
4060
4070
4080

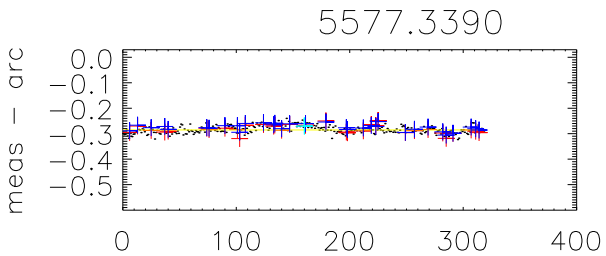

shift(pix)=−0.490
err(pix)= 0.009
oldshift(pix)=−0.481
400
300
200
100
0
4280
4300
4320
4340
4360
4380
4400
4420

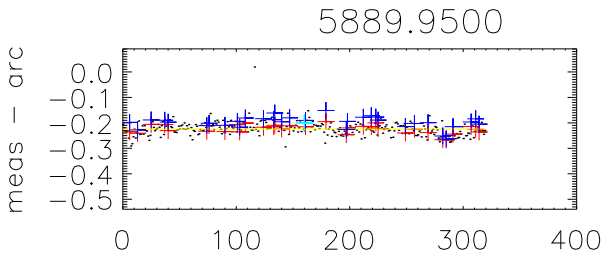

shift(pix)=−0.335
err(pix)= 0.006
oldshift(pix)=−0.295
400
300
200
100
0
5430
5440
5450
5460
5470
5480
5490

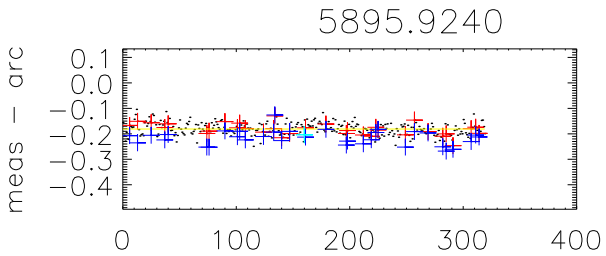

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

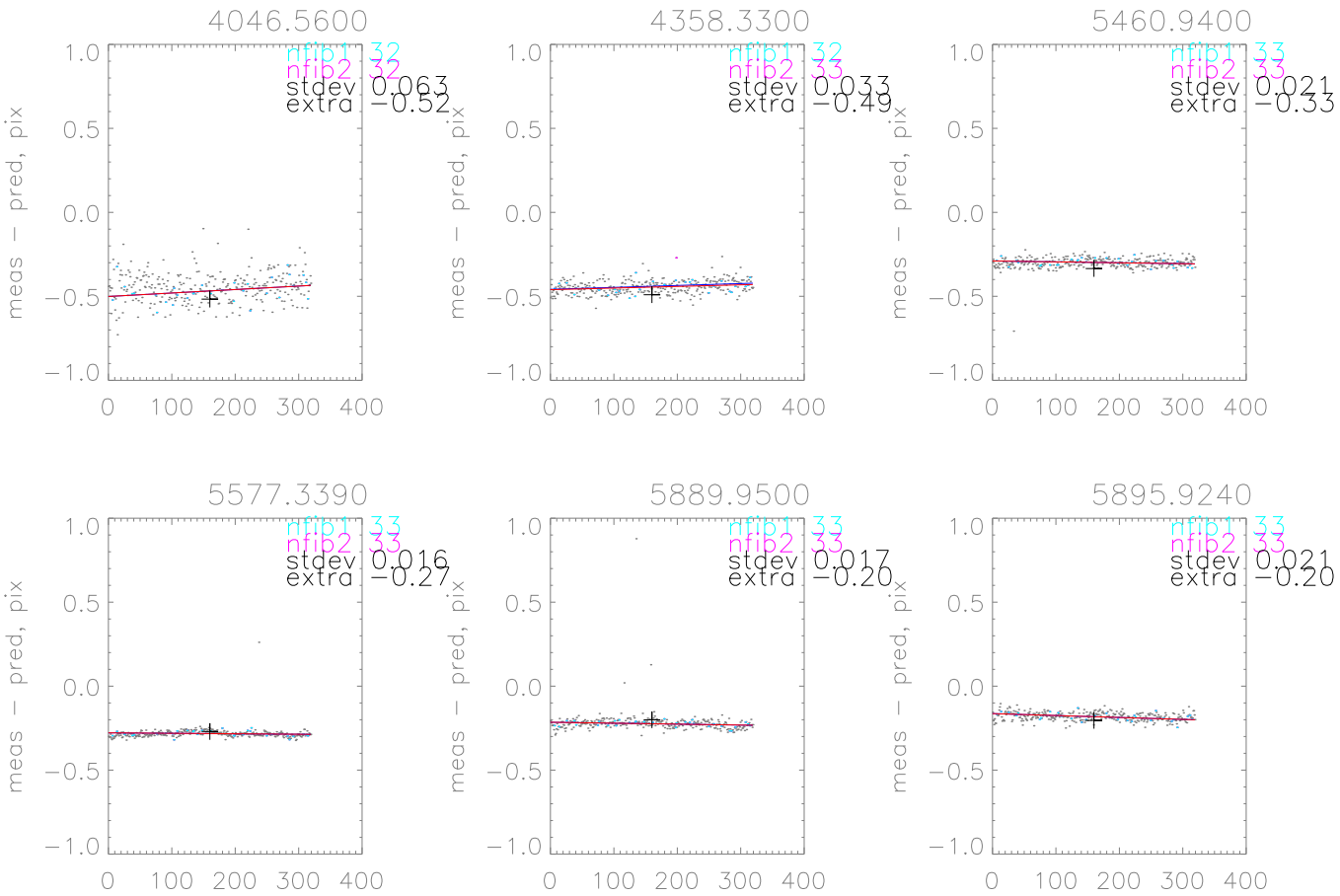

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

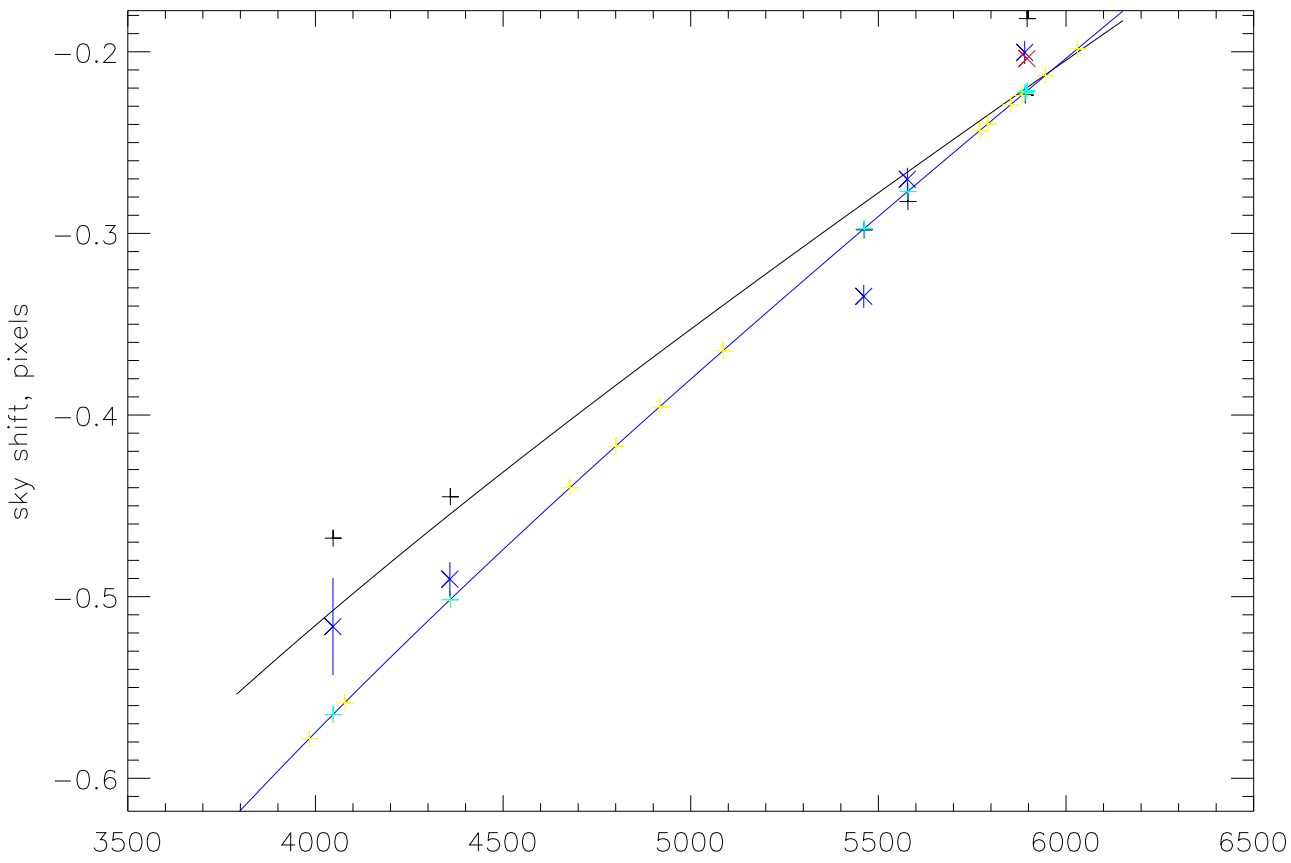

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

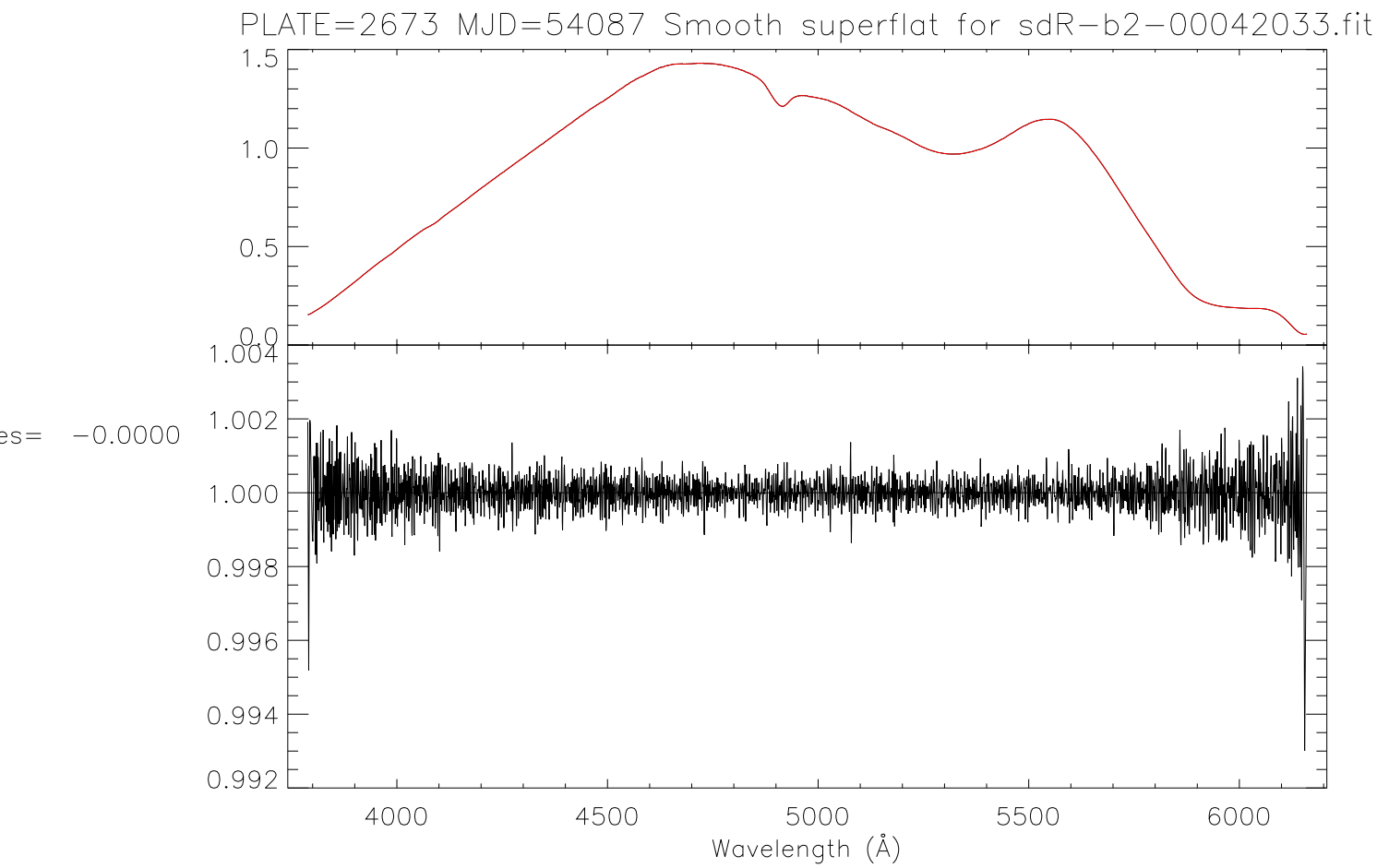

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

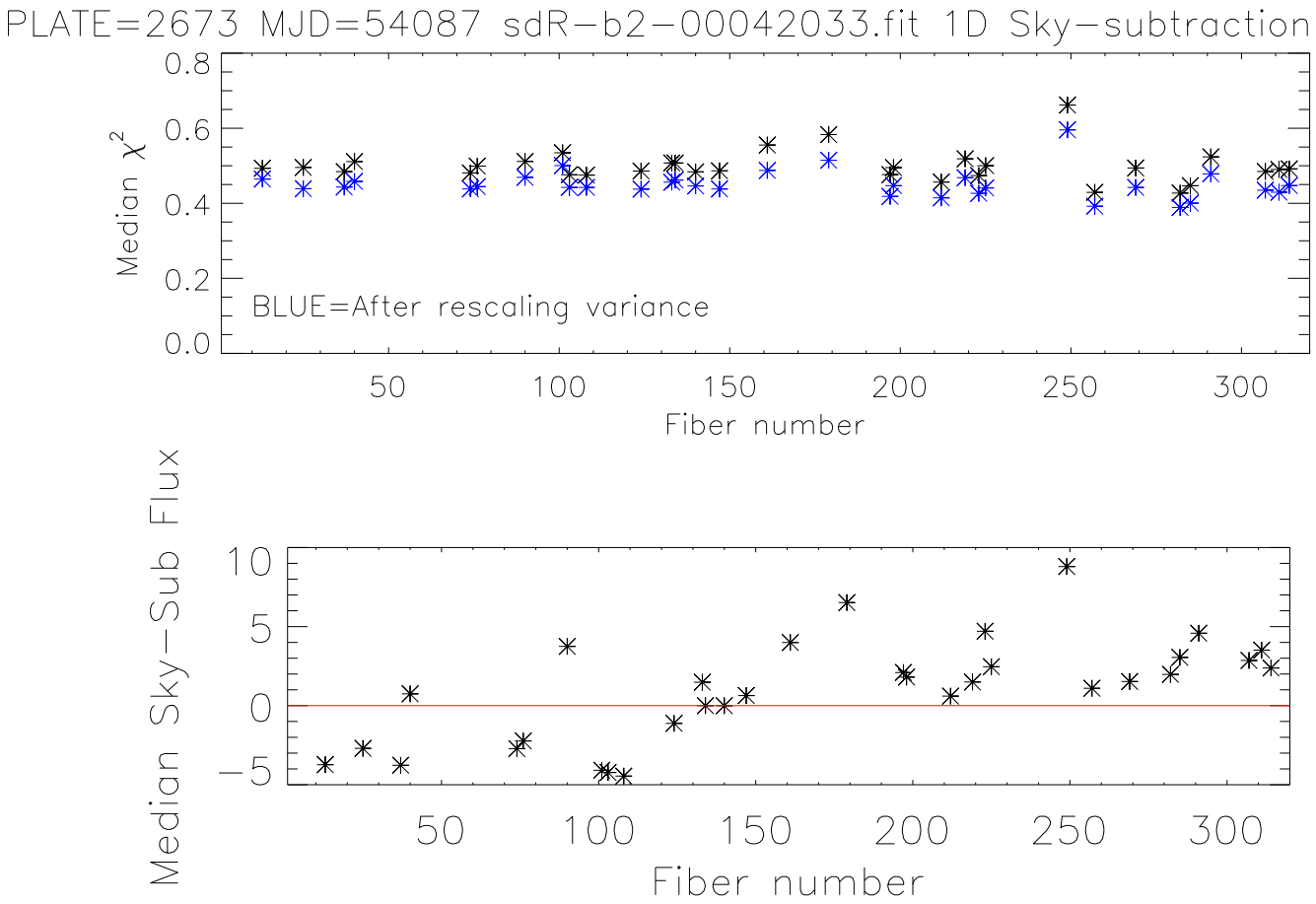

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

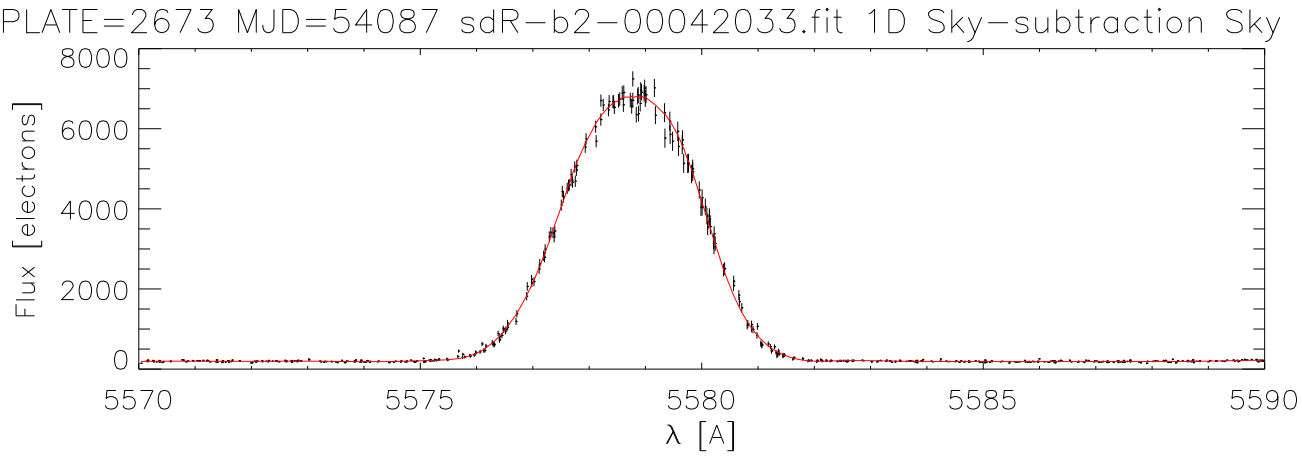

4046.5600
nfib1 32
nfib2 32
stdev 0.063
extra −0.52
4358.3300
nfib1 32
nfib2 33
stdev 0.033
extra −0.49
5460.9400
nfib1 33
nfib2 33
stdev 0.021
extra −0.33
5577.3390
nfib1 33
nfib2 33
stdev 0.016
extra −0.27
5889.9500
nfib1 33
nfib2 33
stdev 0.017
extra −0.20
5895.9240
nfib1 33
nfib2 33
stdev 0.021
extra −0.20
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

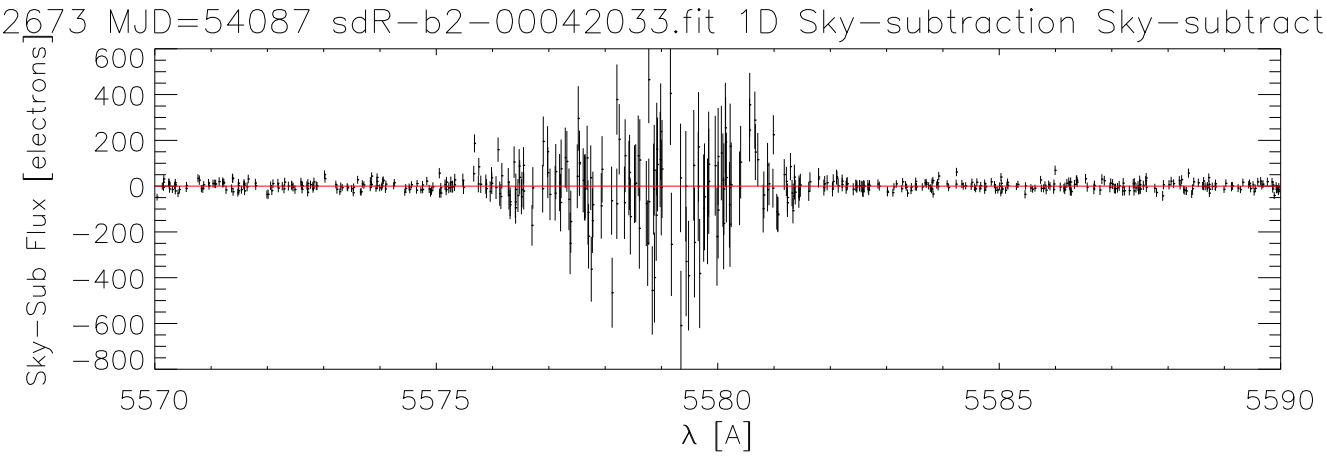

sky shift, pixels
−0.2
−0.3
−0.4
−0.5
−0.6
3500
4000
4500
5000
5500
6000
6500

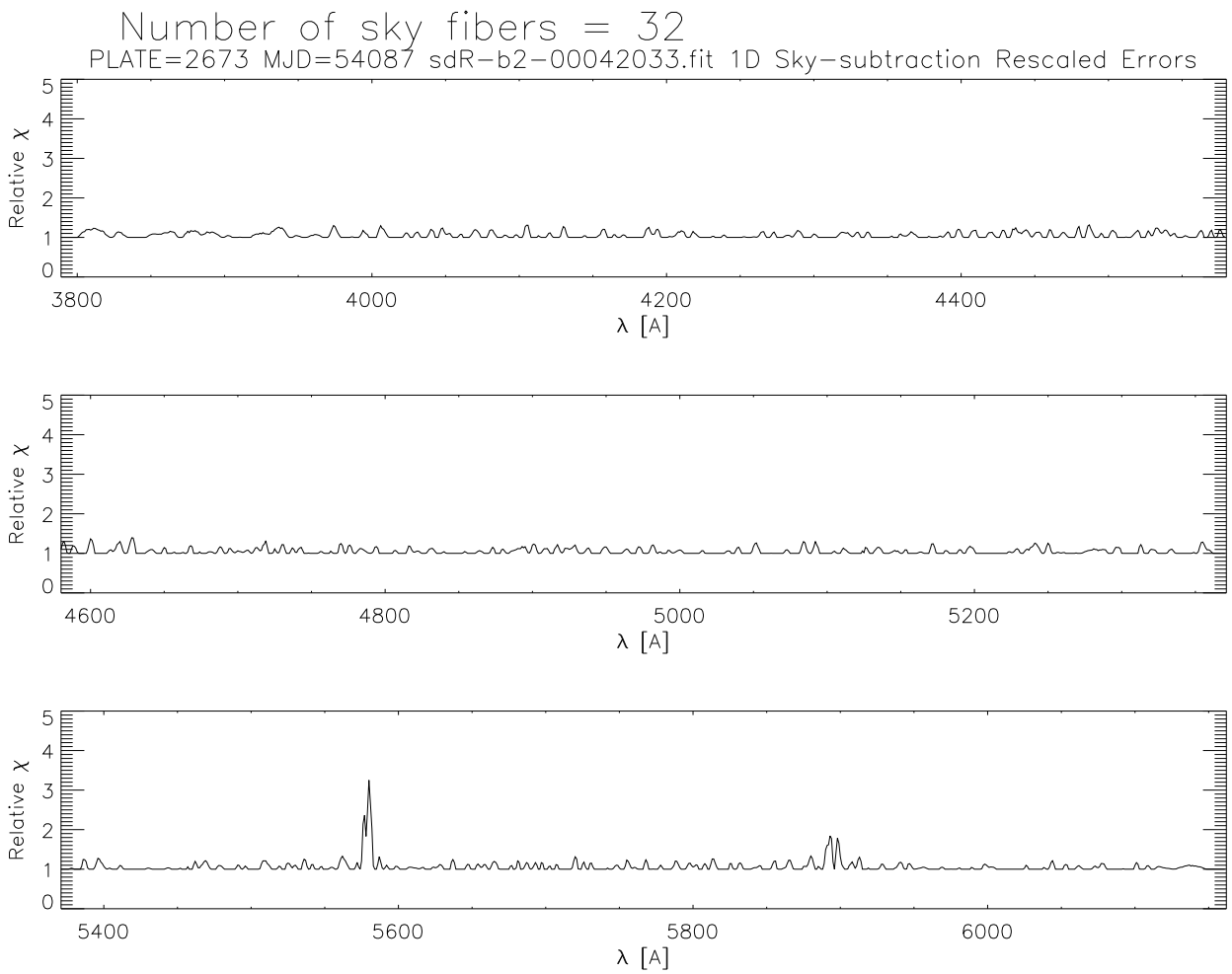

PLATE=2673 MJD=54087 Smooth superflat for sdR-b2-00042033.fit
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

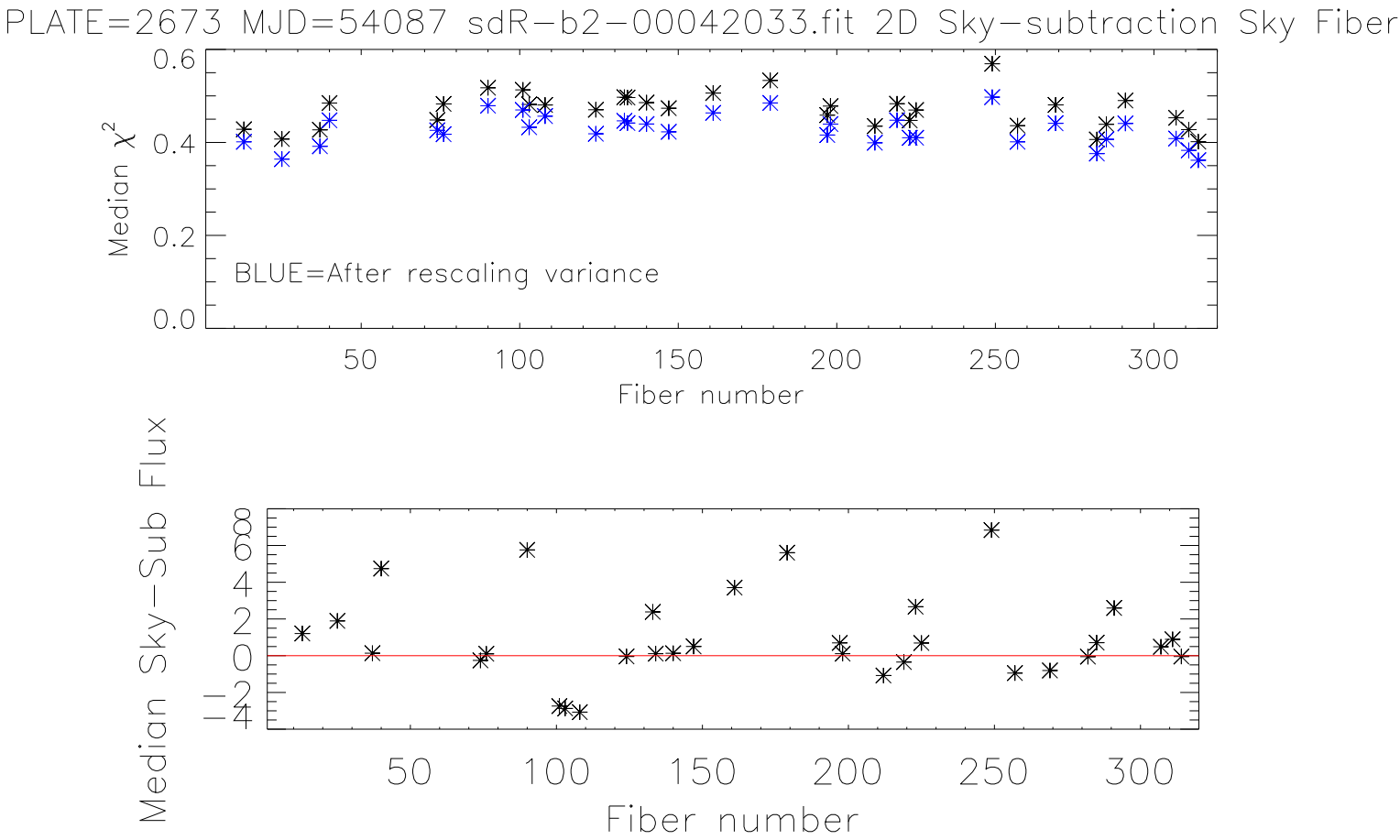
es= −0.0000

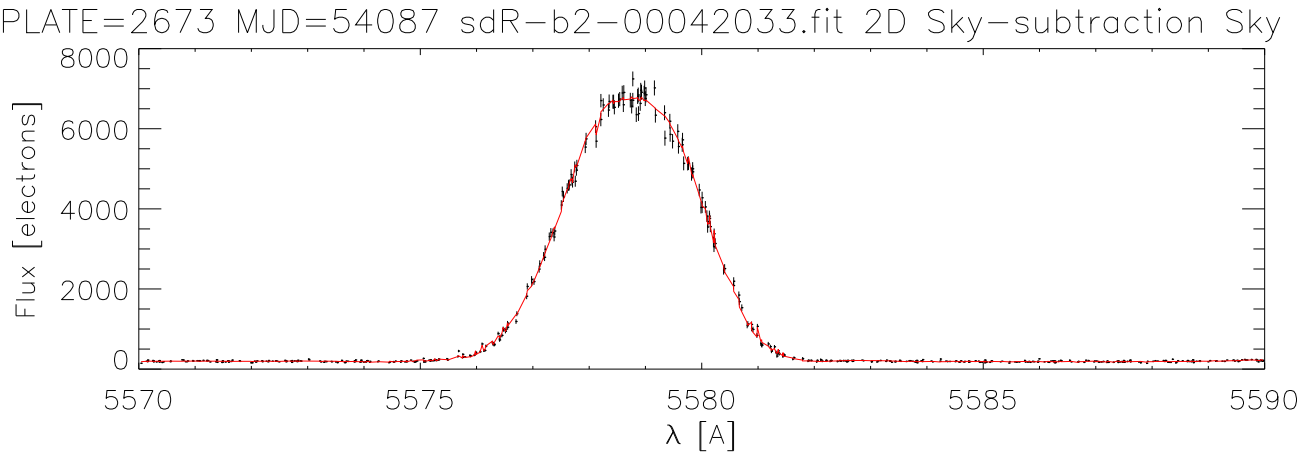

PLATE=2673 MJD=54087 sdR-b2-00042033.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
50
100
150
200
250
300
Fiber number

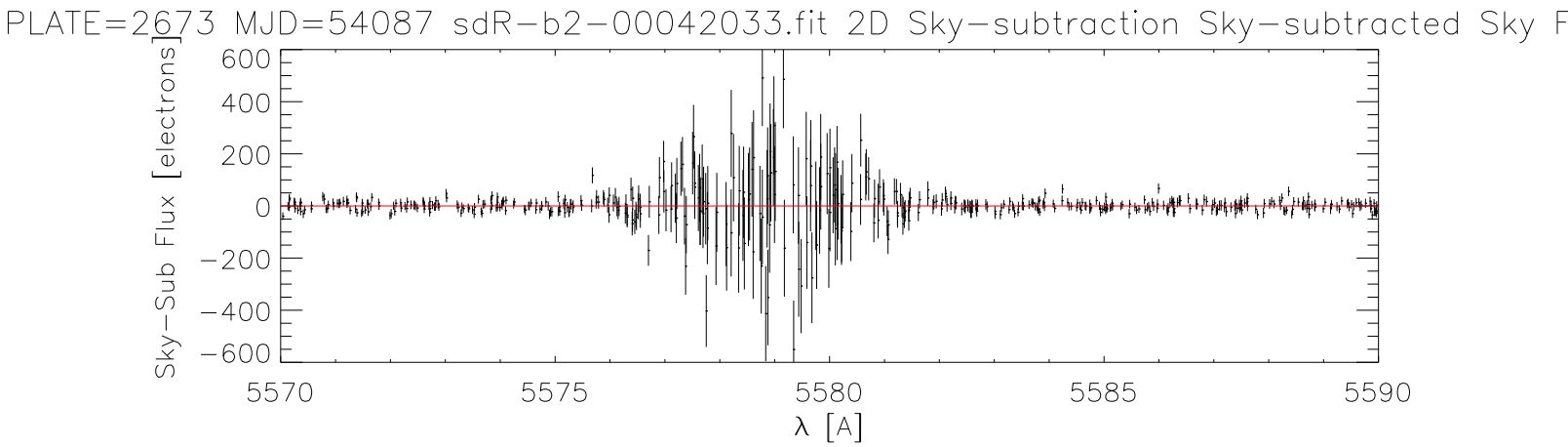

PLATE=2673 MJD=54087 sdR-b2-00042033.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

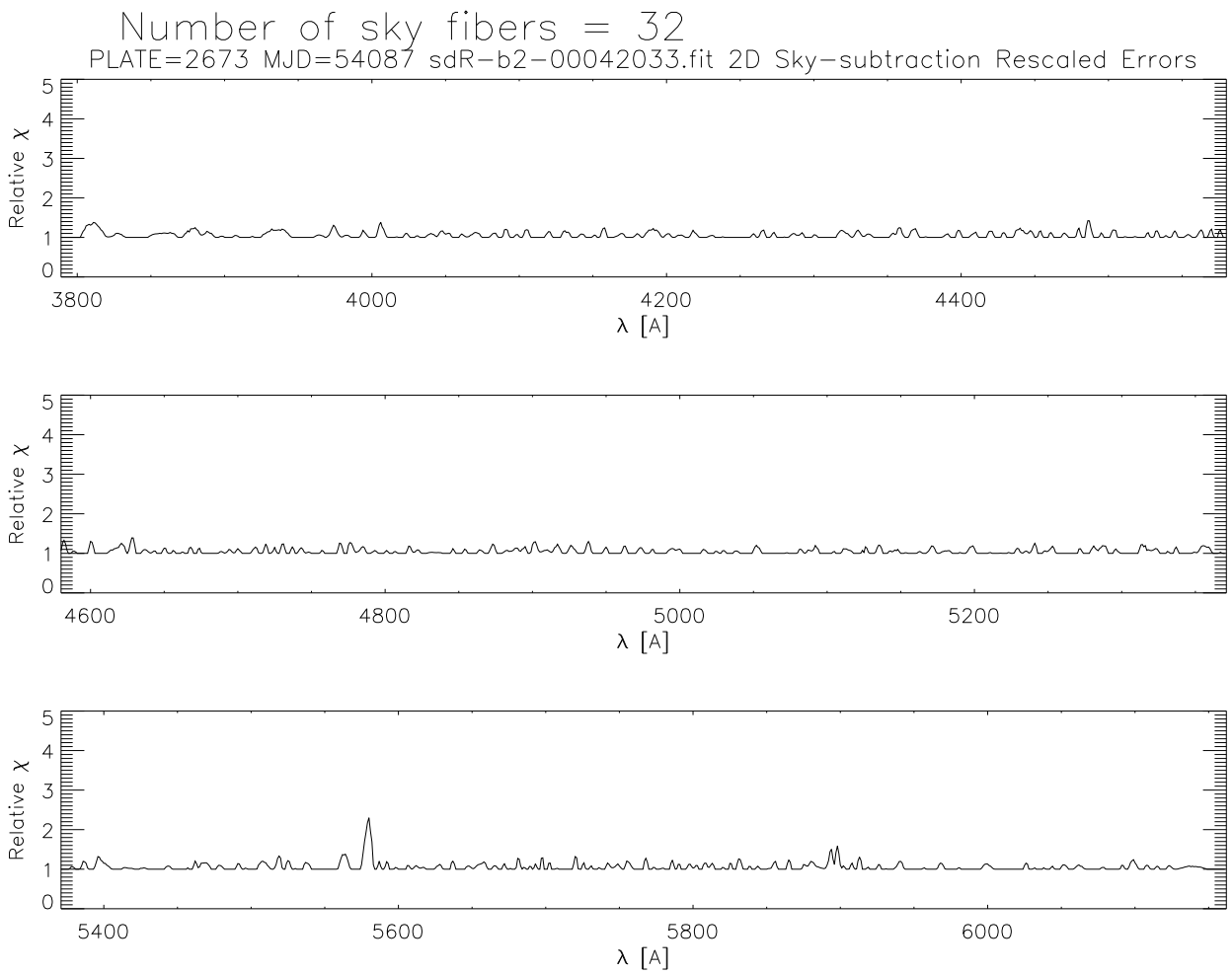

PLATE=2673 MJD=54087 sdR-b2-00042033.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
-800
5570
5575
5580
5585
5590
λ [A]

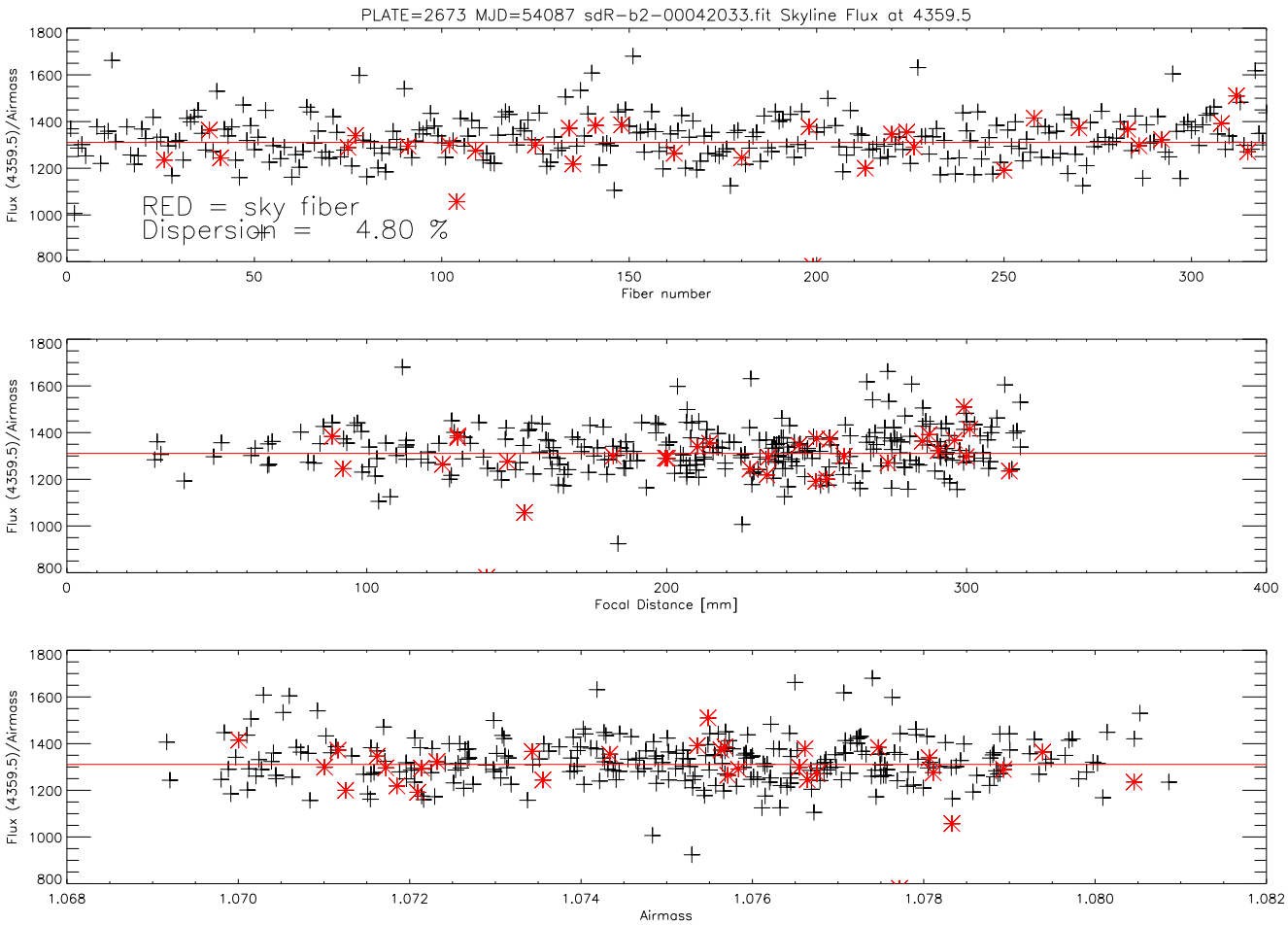

Number of sky fibers = 32
PLATE=2673 MJD=54087 sdR-b2-00042033.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

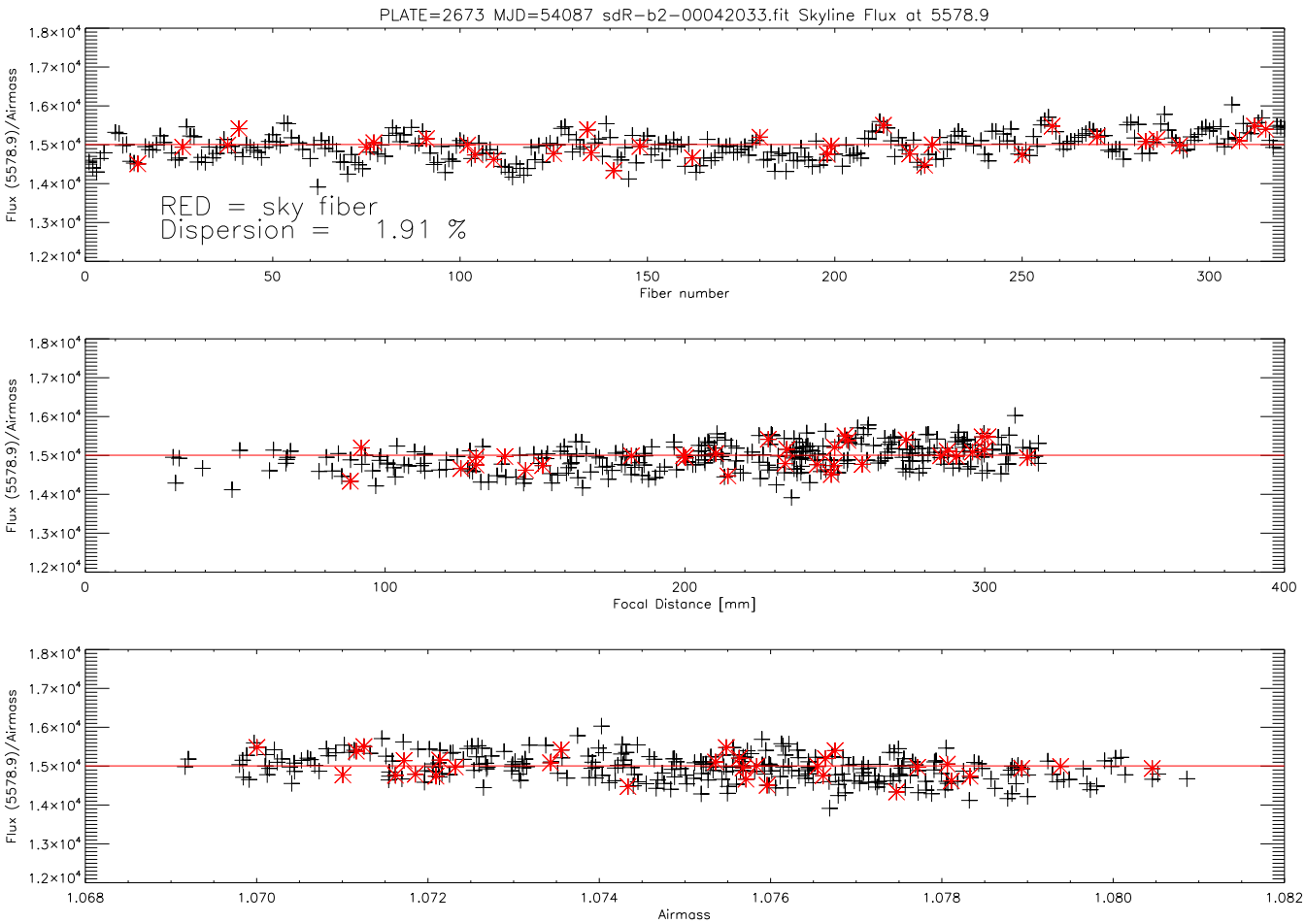

PLATE=2673 MJD=54087 sdR-b2-00042033.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

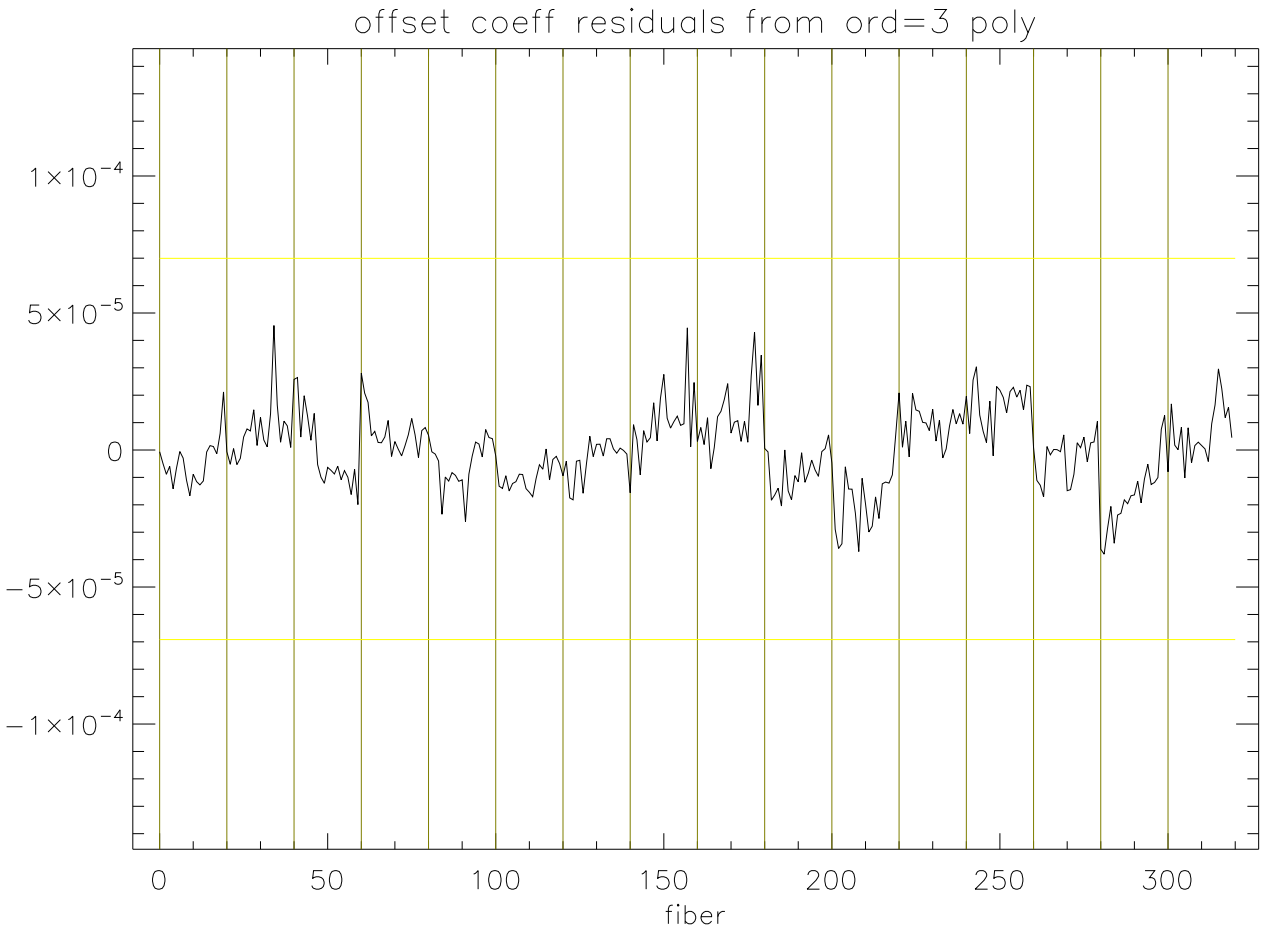

PLATE=2673 MJD=54087 sdR-b2-00042033.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

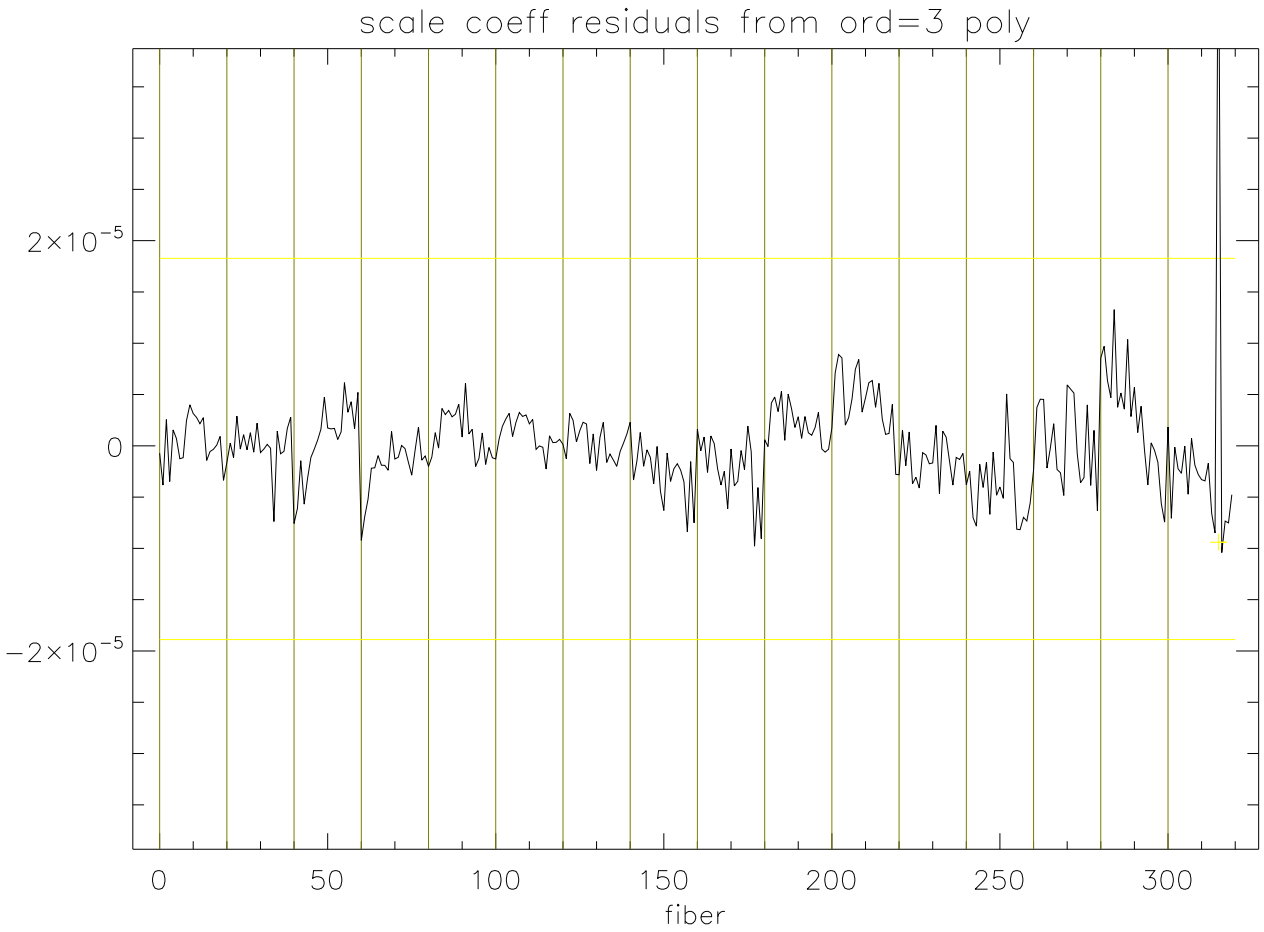

PLATE=2673 MJD=54087 sdR-b2-00042033.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

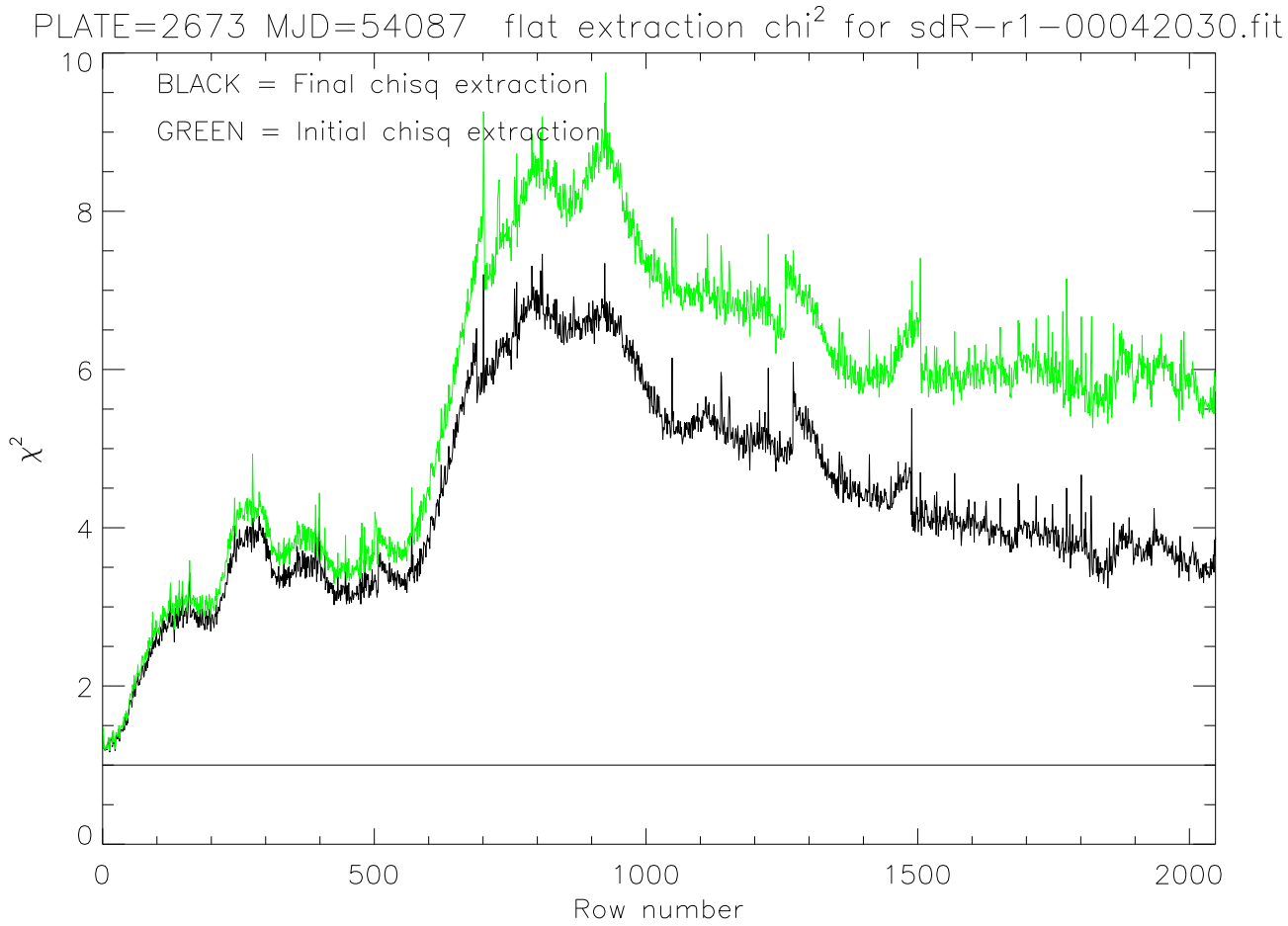

Number of sky fibers = 32
PLATE=2673 MJD=54087 sdR-b2-00042033.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

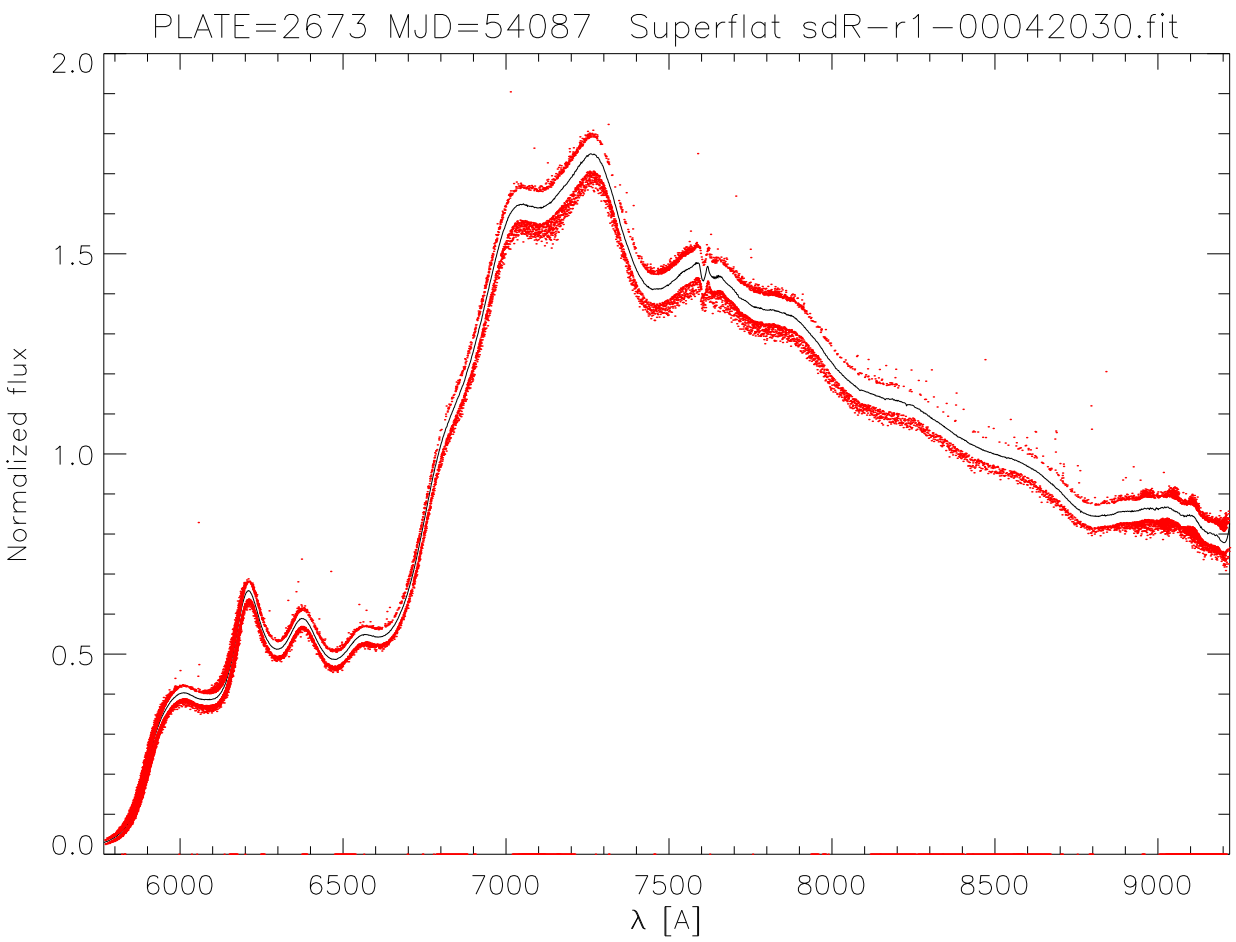

PLATE=2673 MJD=54087 sdR-b2-00042033.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 4.80 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

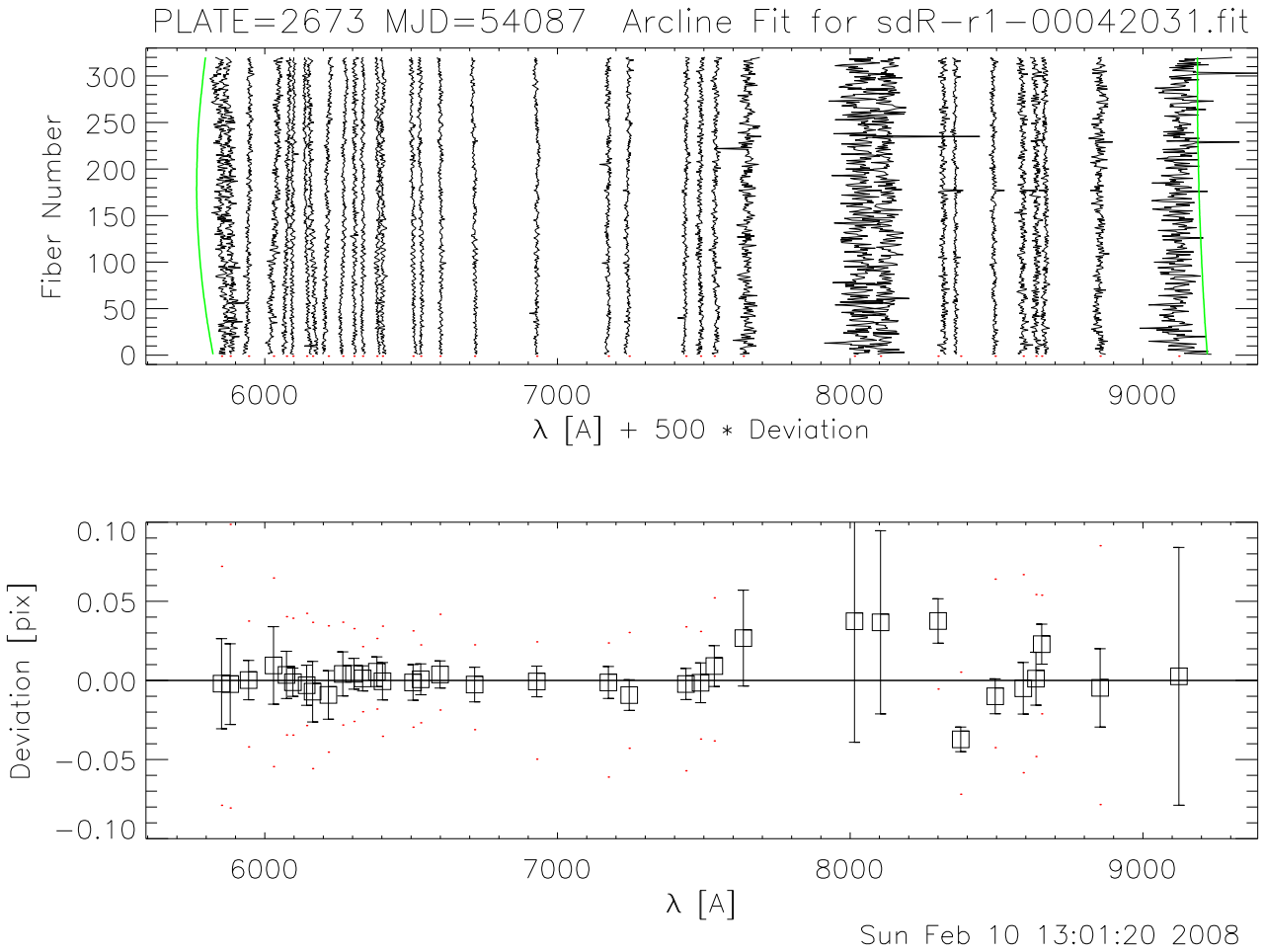

PLATE=2673 MJD=54087 sdR-b2-00042033.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.91 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

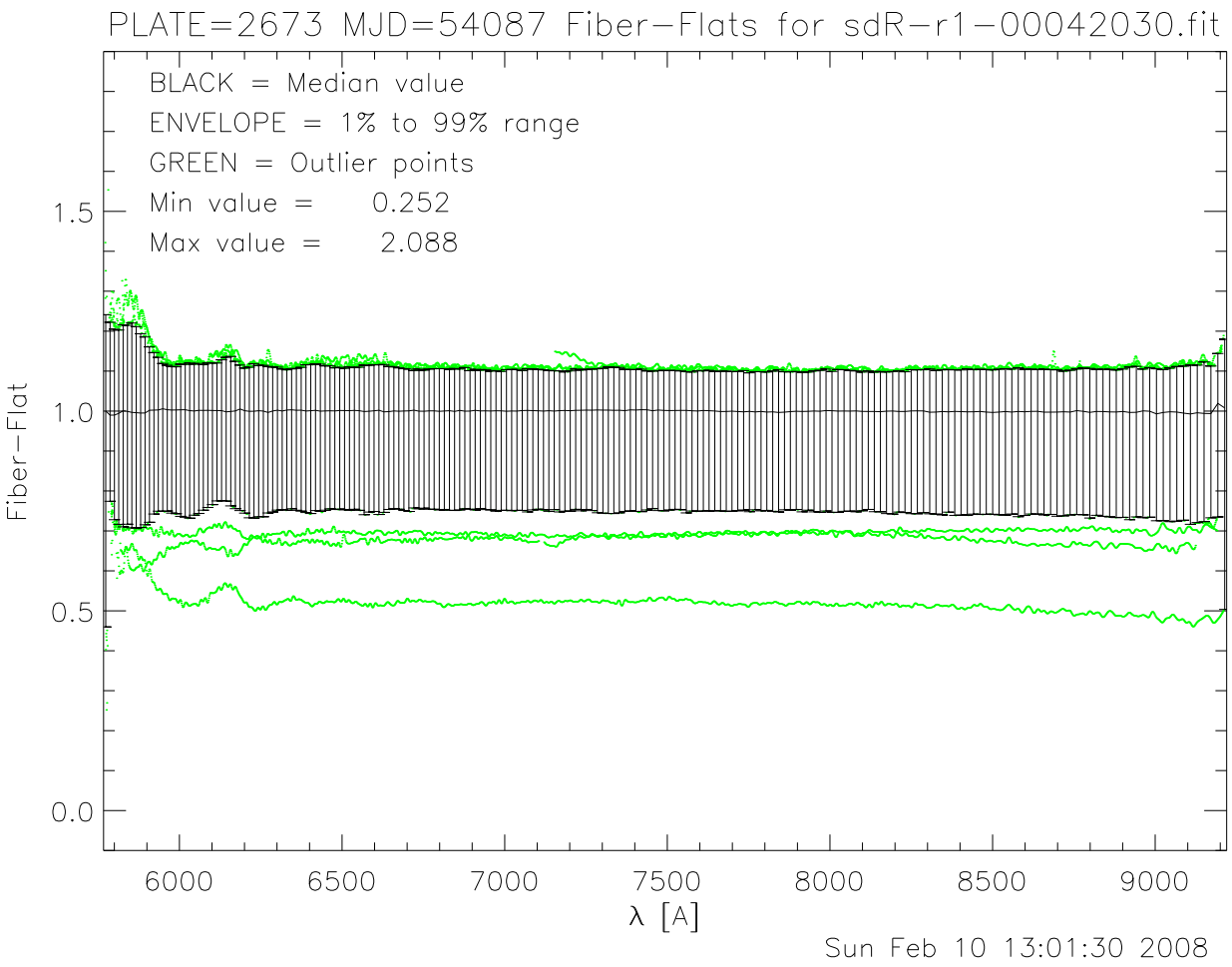

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

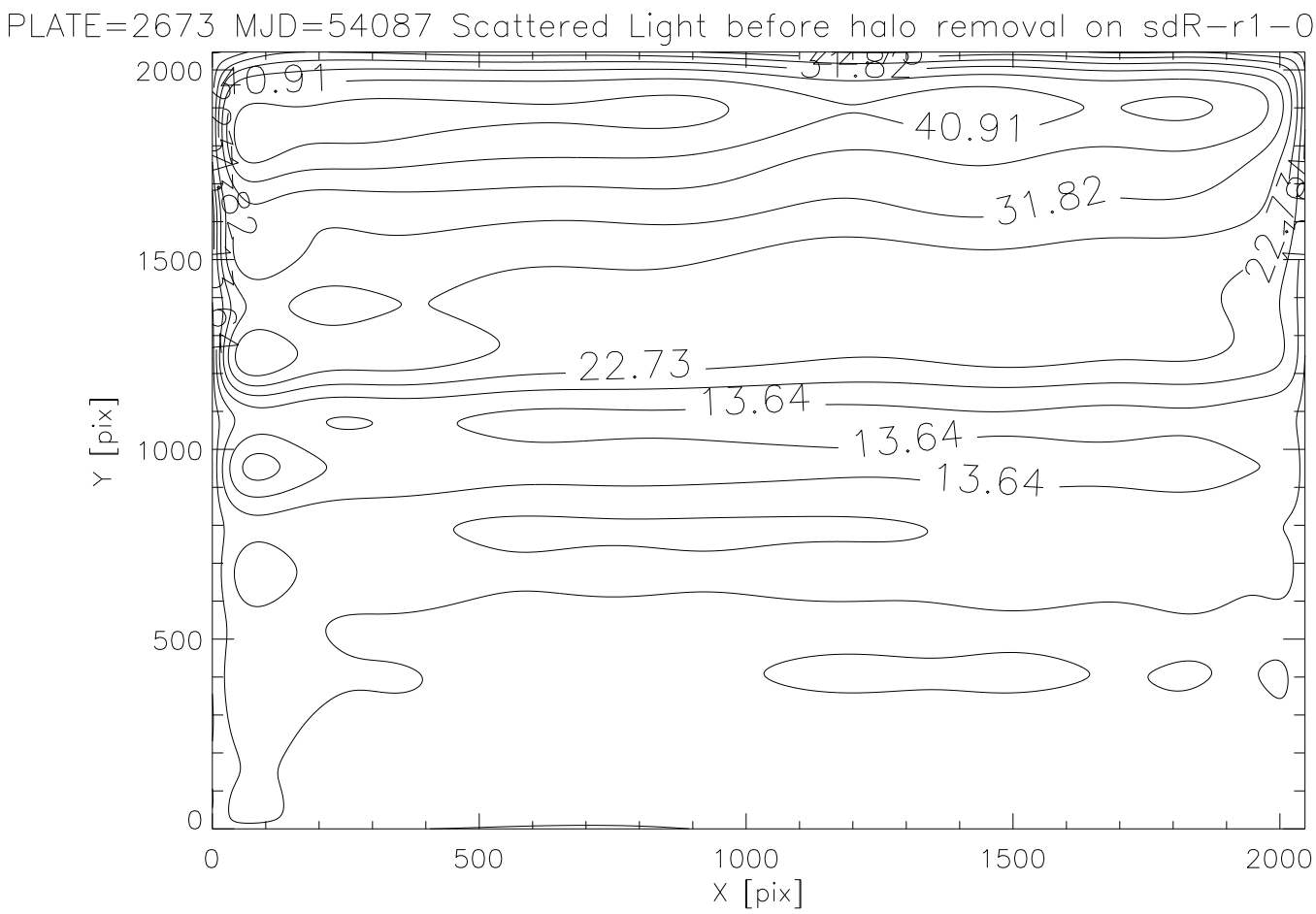

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

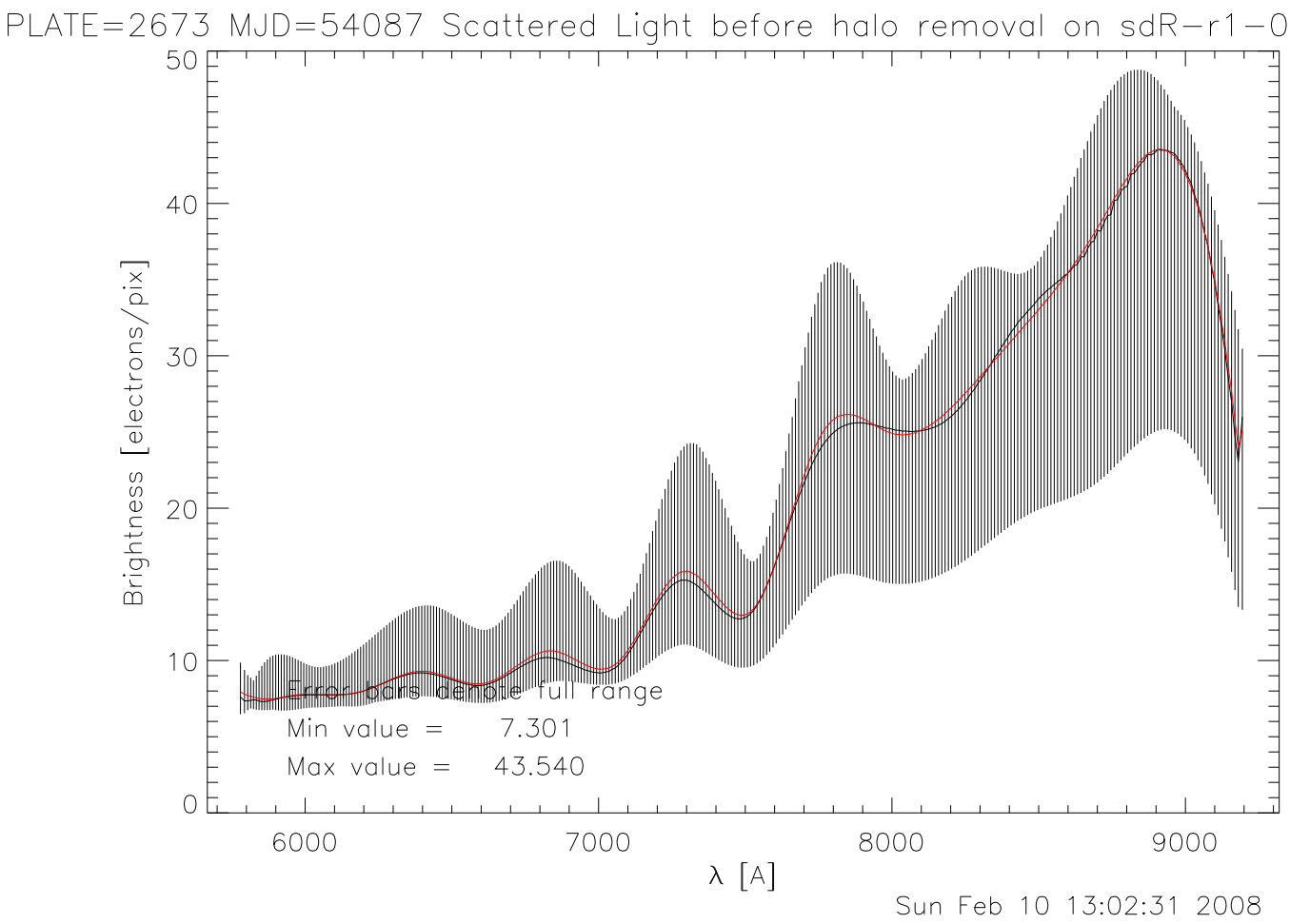

PLATE=2673 MJD=54087 flat extraction chi^2 for sdR−r1−00042030.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

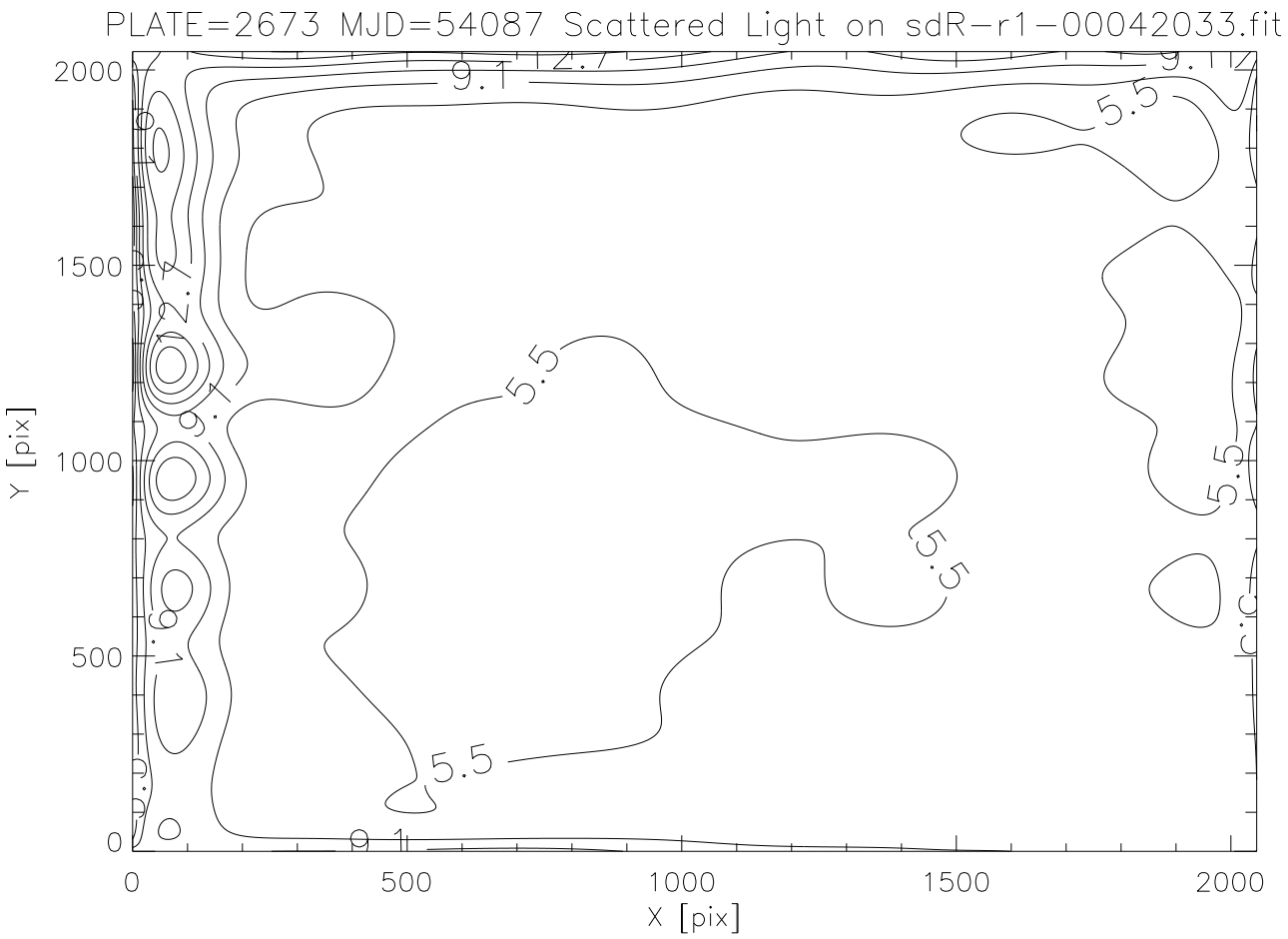

PLATE=2673 MJD=54087 Superflat sdR-r1-00042030.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

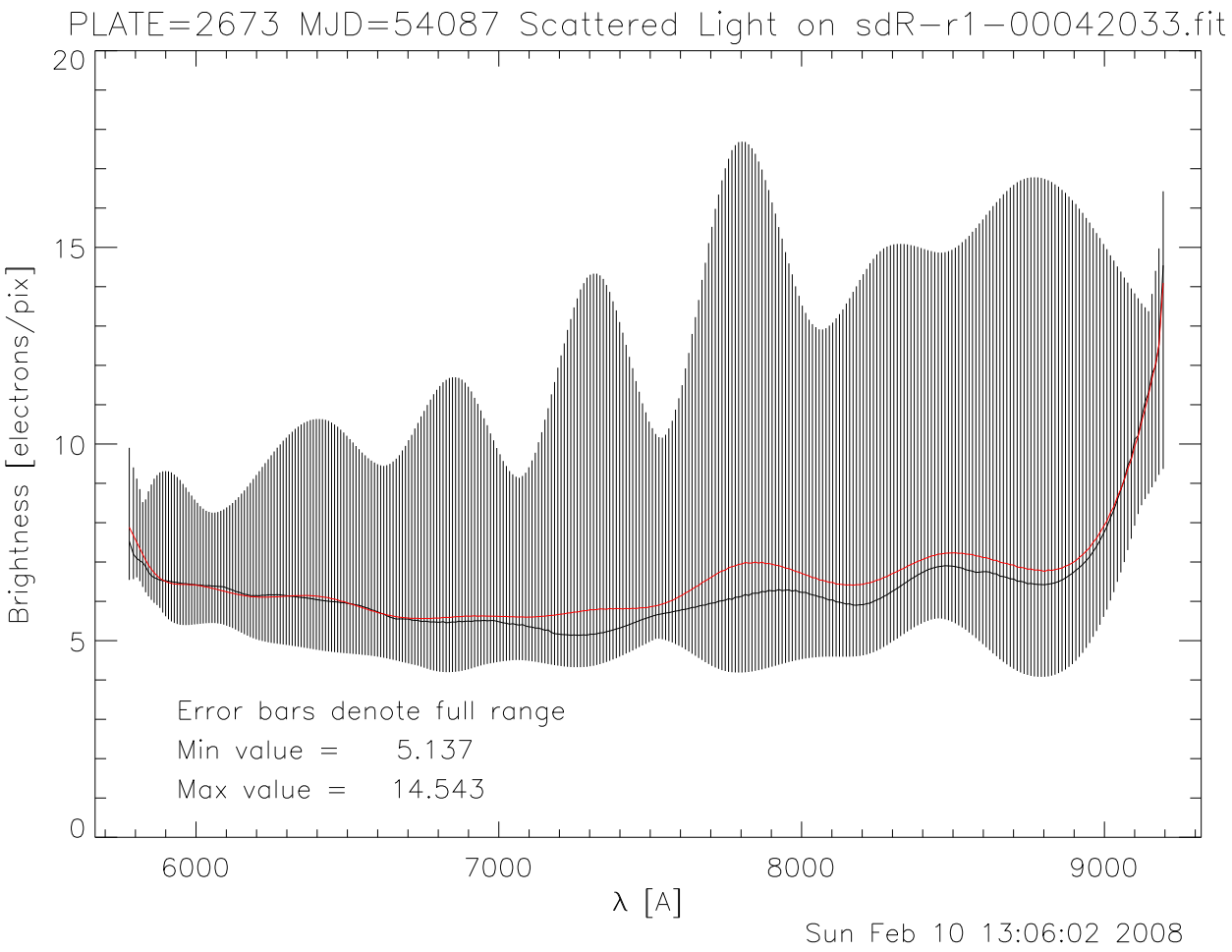

PLATE=2673 MJD=54087 Arcline Fit for sdR-r1-00042031.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sun Feb 10 13:01:20 2008

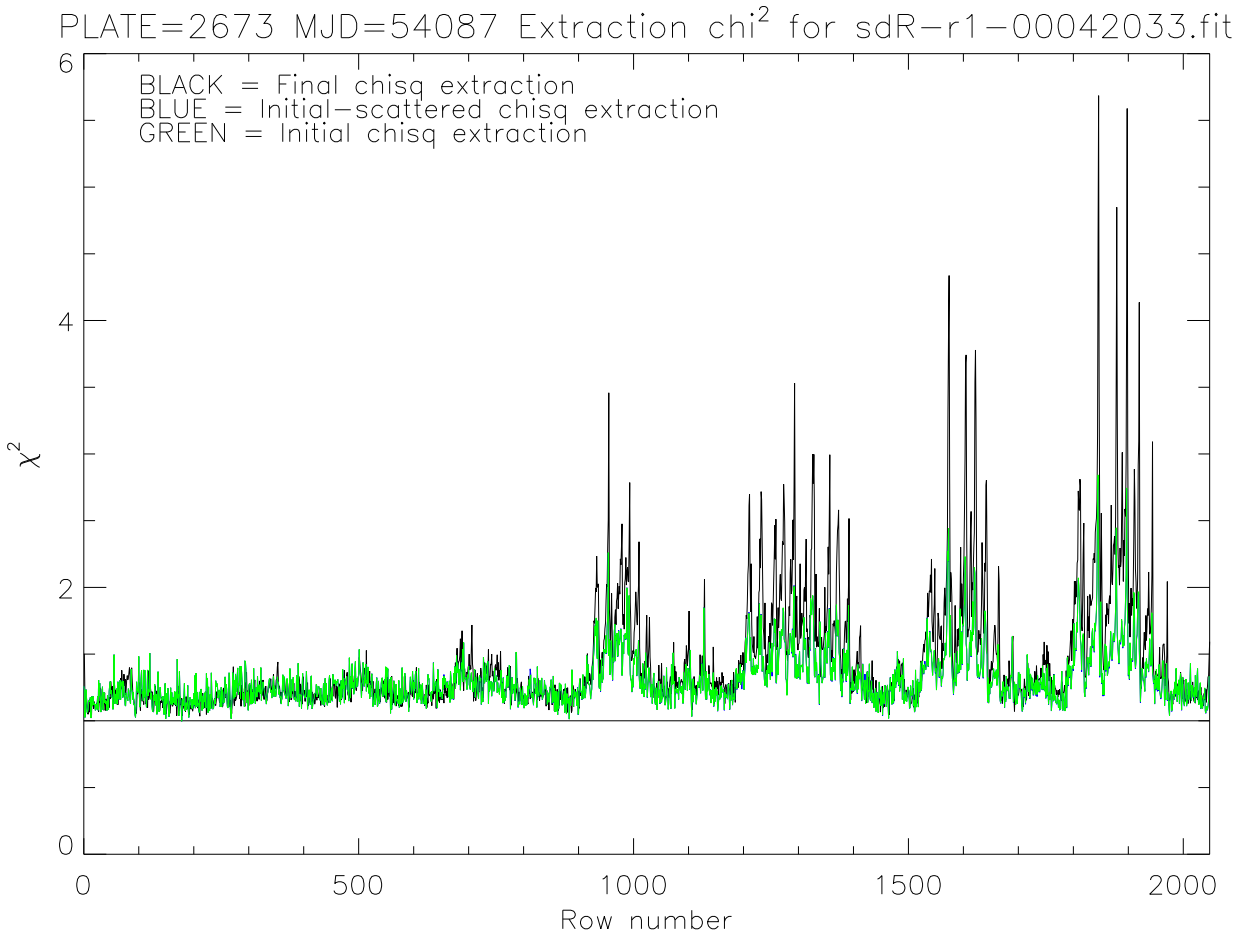

PLATE=2673 MJD=54087 Fiber−Flats for sdR−r1−00042030.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.252
Max value = 2.088
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 13:01:30 2008

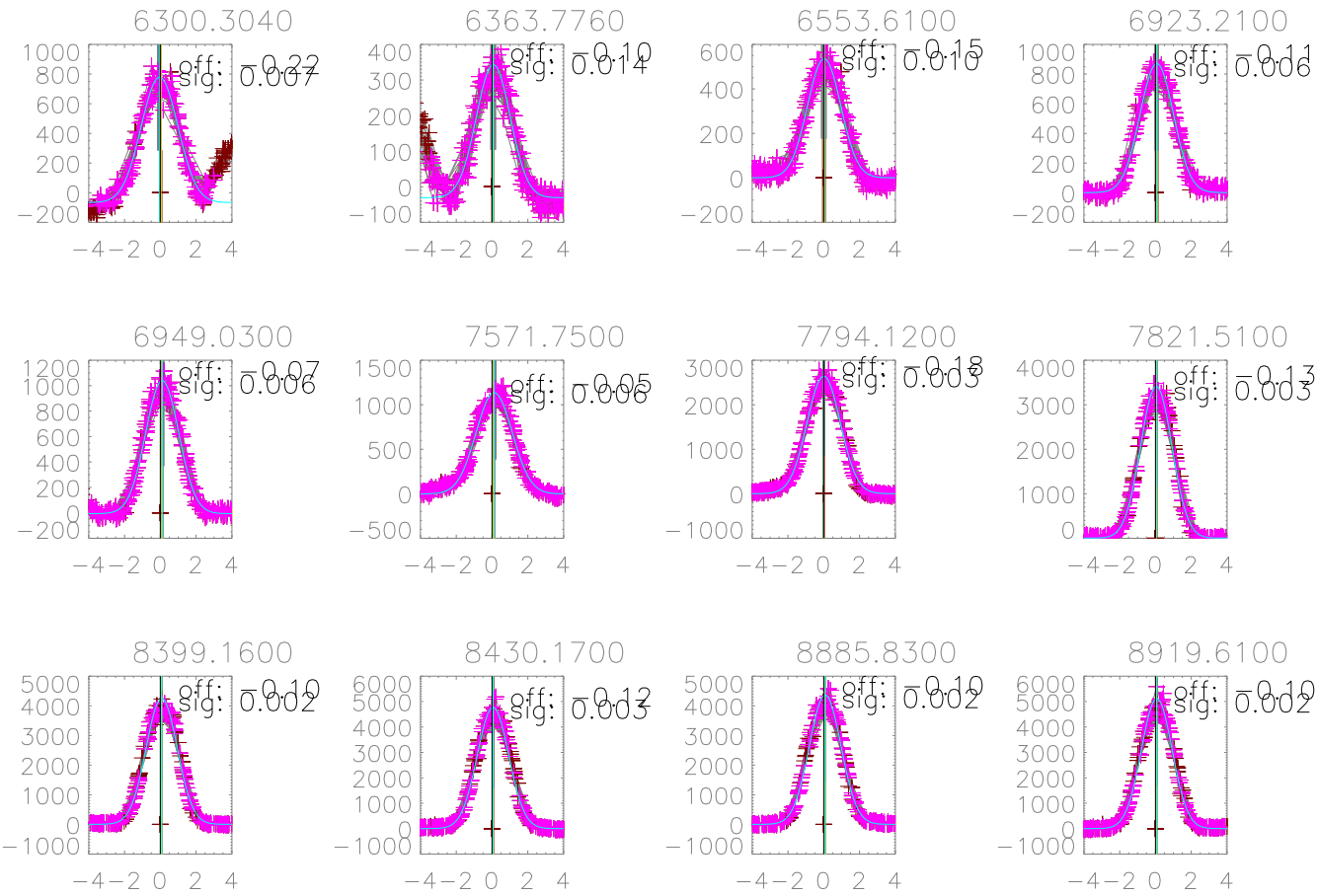

PLATE=2673 MJD=54087 Scattered Light before halo removal on sdR-r1-00042033.fi
40.91
31.82
22.73
13.64
13.64
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

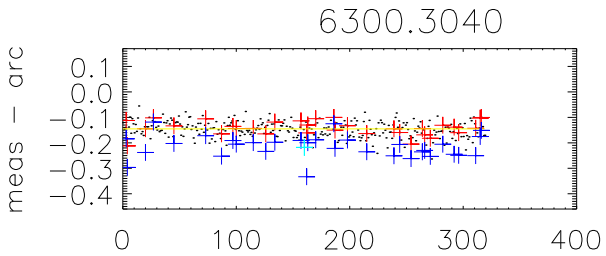

PLATE=2673 MJD=54087 Scattered Light before halo removal on sdR-r1-00042033.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.301
Max value = 43.540
Sun Feb 10 13:02:31 2008

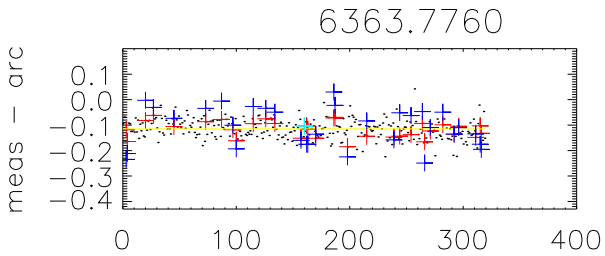

PLATE=2673 MJD=54087 Scattered Light on sdR−r1−00042033.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
5.5
0.0

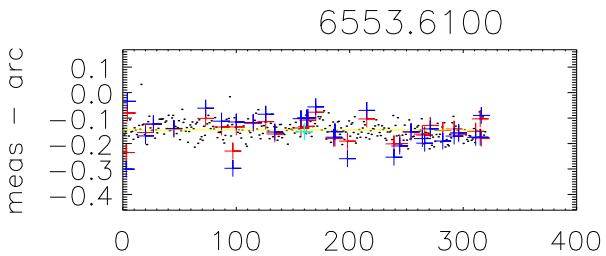

PLATE=2673 MJD=54087 Scattered Light on sdR-r1-00042033.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.137
Max value = 14.543
Sun Feb 10 13:06:02 2008

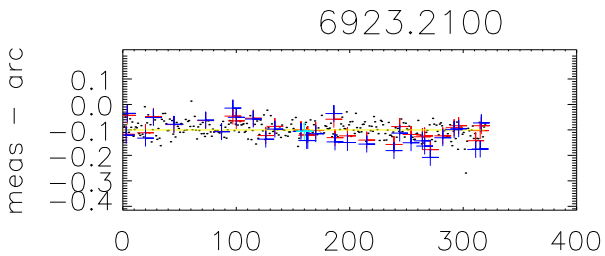

PLATE=2673 MJD=54087 Extraction chi^2 for sdR−r1−00042033.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

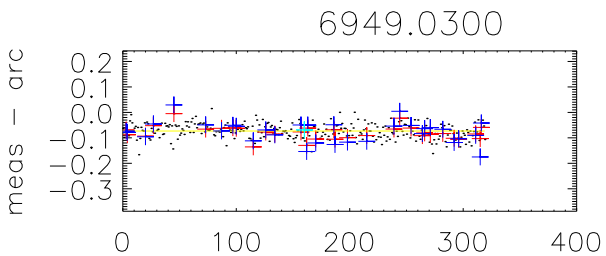

6300.3040
off: −0.22
sig: 0.007
6363.7760
off: −0.10
sig: 0.014
6553.6100
off: −0.15
sig: 0.010
6923.2100
off: −0.11
sig: 0.006
6949.0300
off: −0.07
sig: 0.006
7571.7500
off: −0.05
sig: 0.006
7794.1200
off: −0.18
sig: 0.003
7821.5100
off: −0.13
sig: 0.003
8399.1600
off: −0.10
sig: 0.002
8430.1700
off: −0.12
sig: 0.003
8885.8300
off: −0.10
sig: 0.002
8919.6100
off: −0.10
sig: 0.002

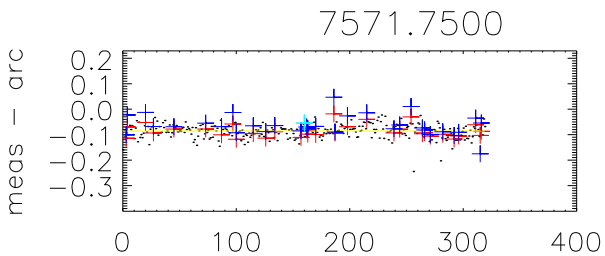

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

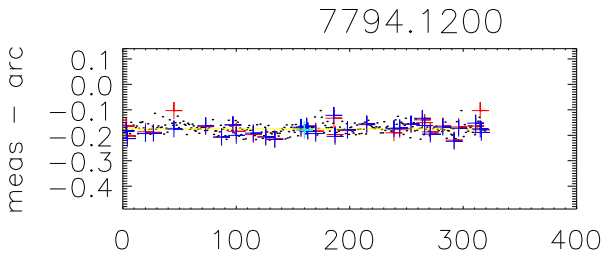

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

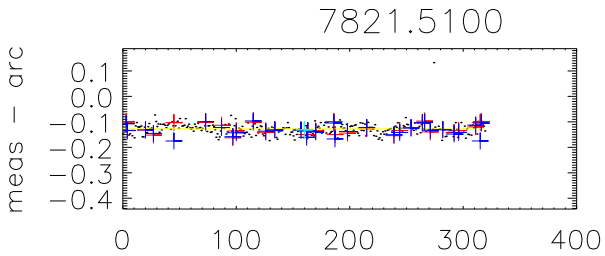

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

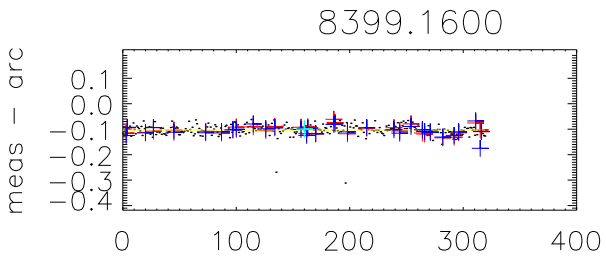

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

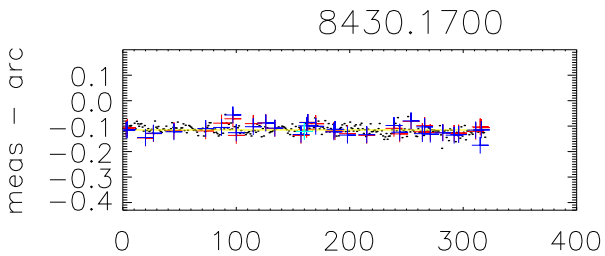

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

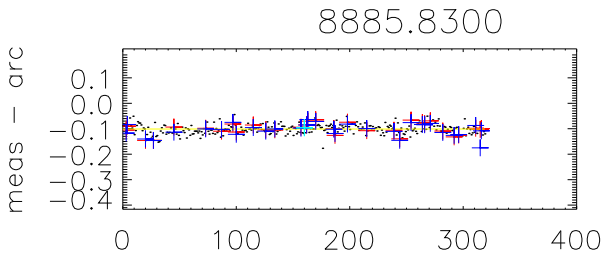

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

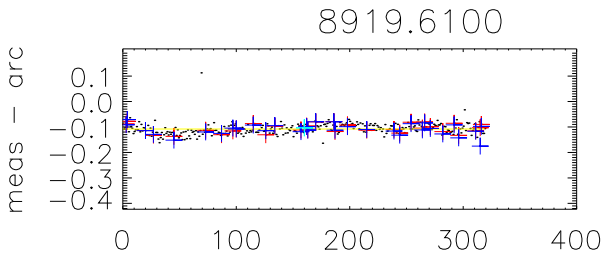

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

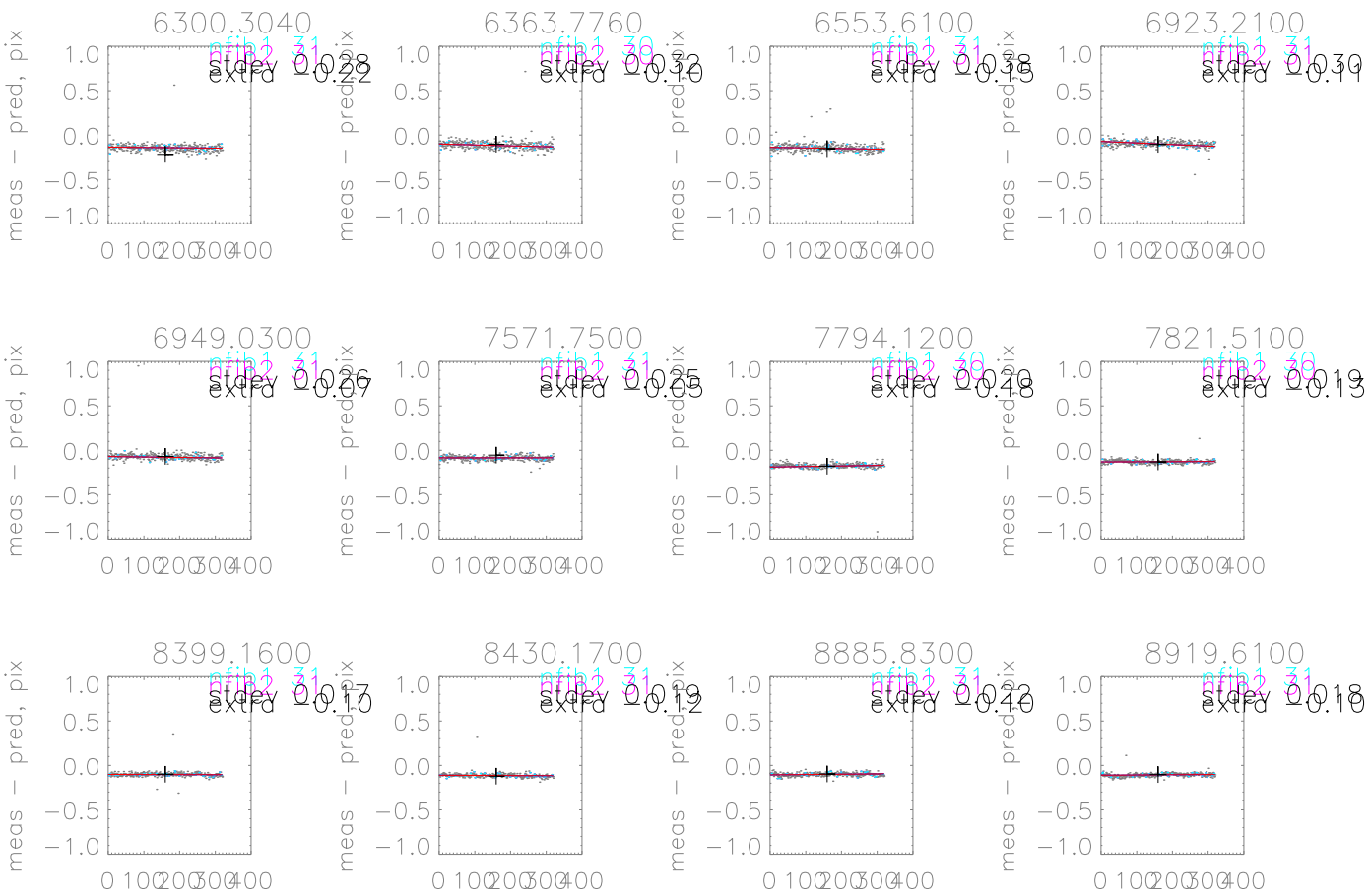

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

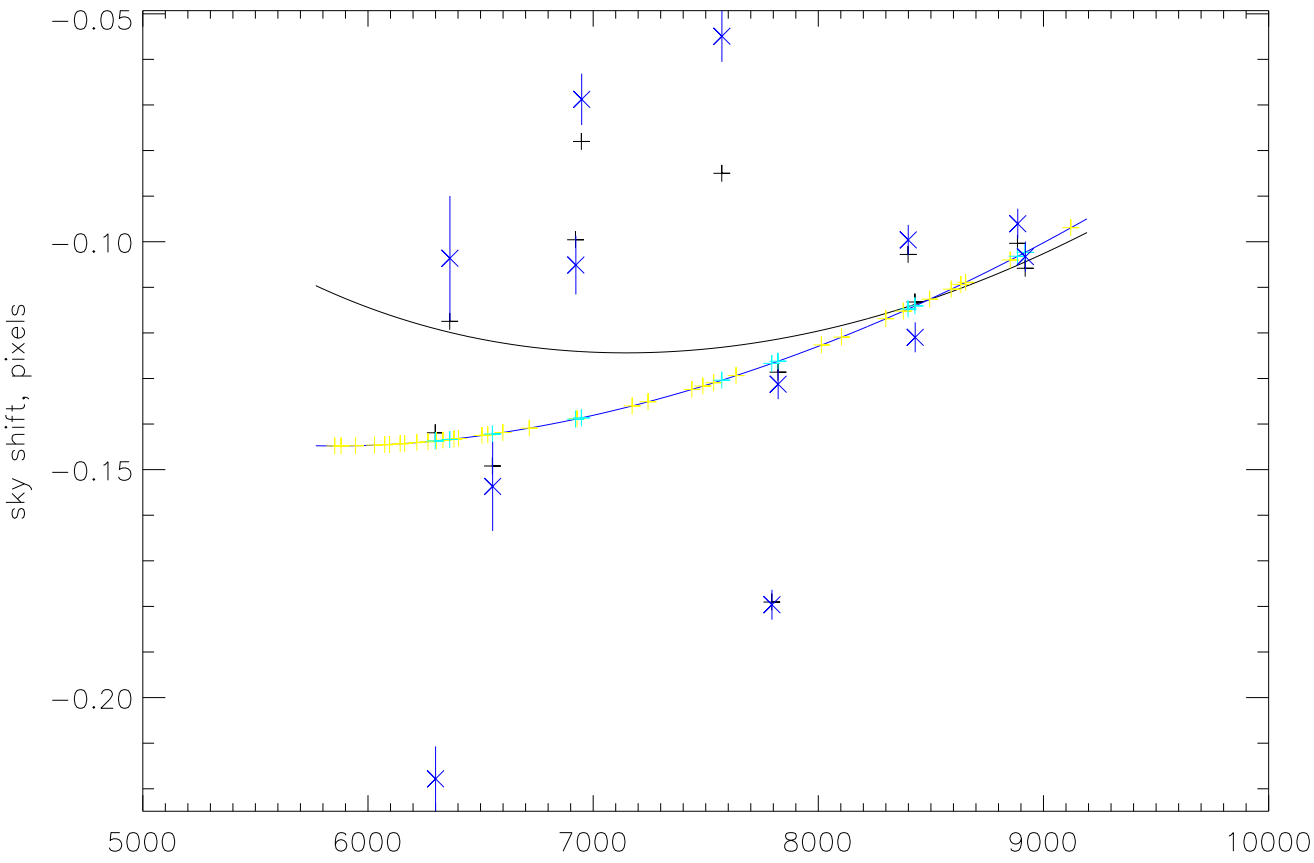

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

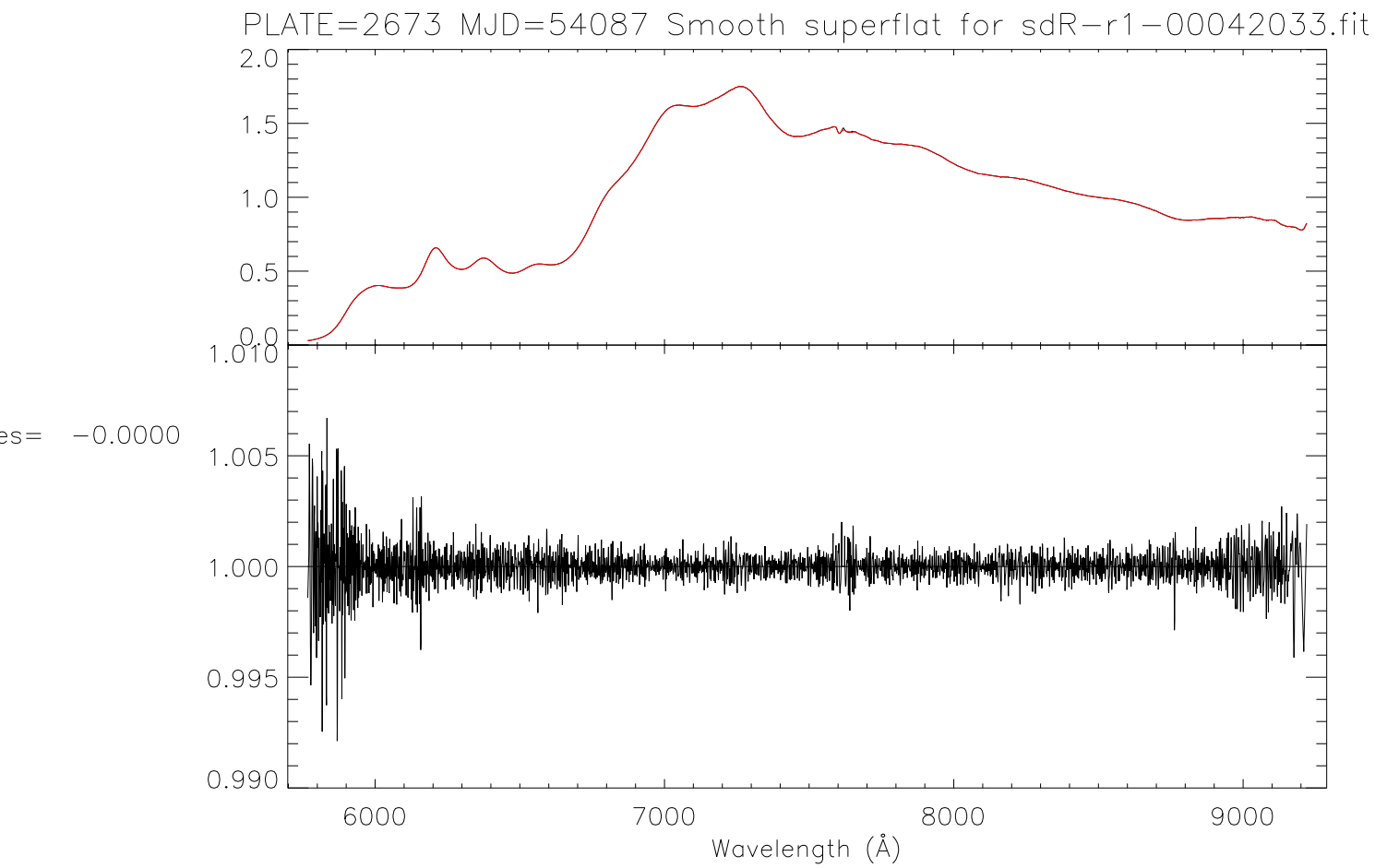

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

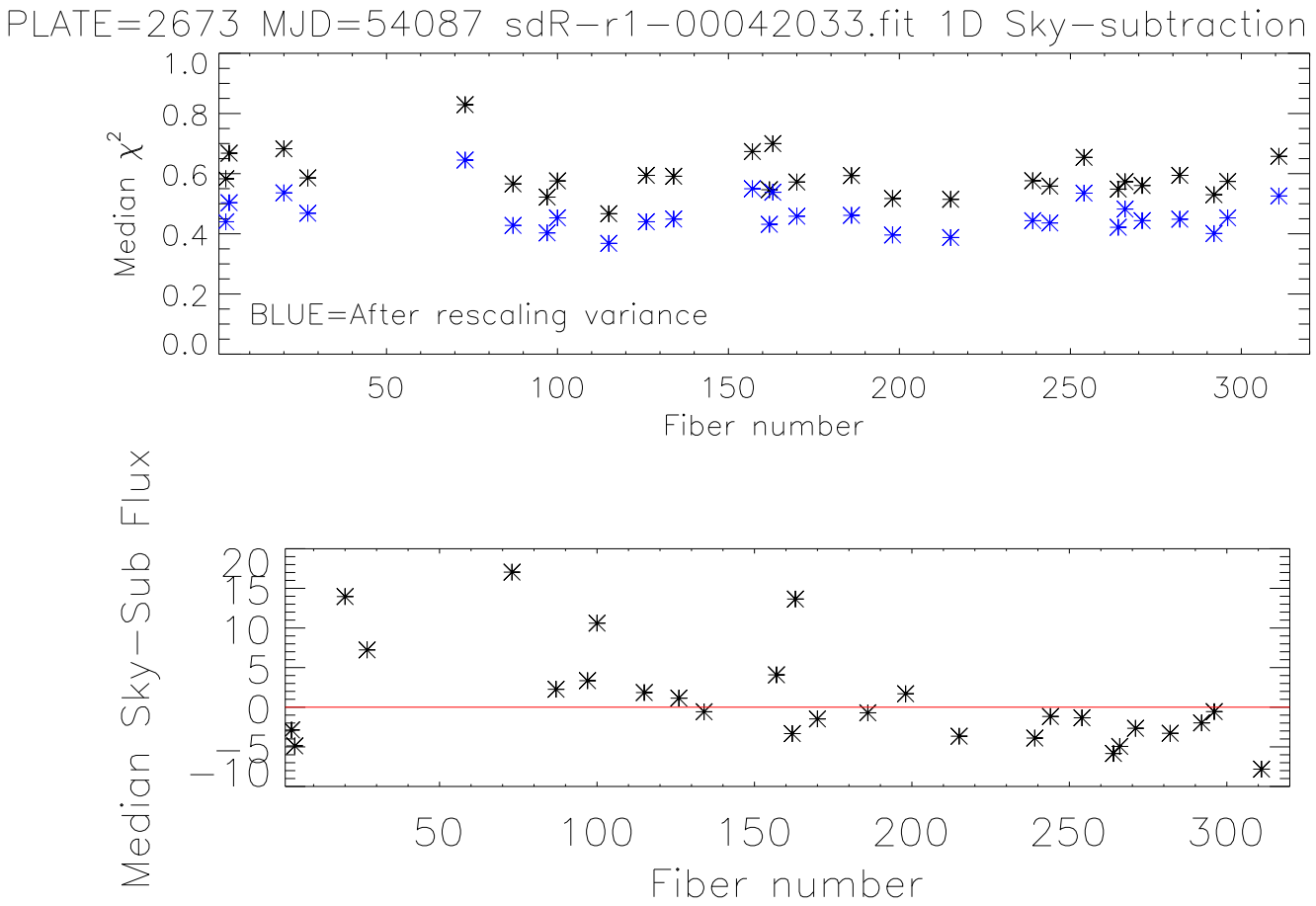

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

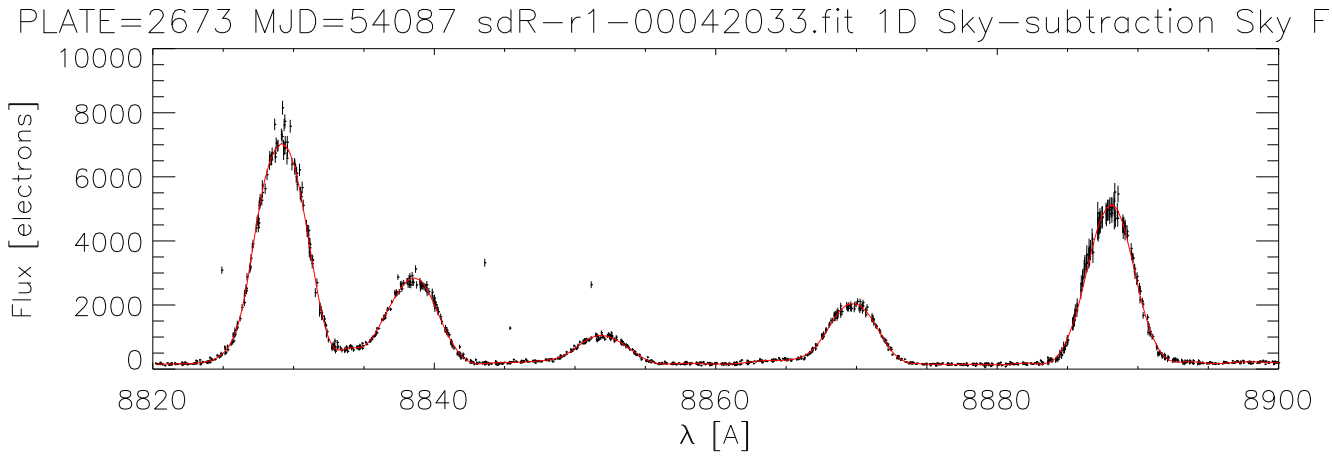

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

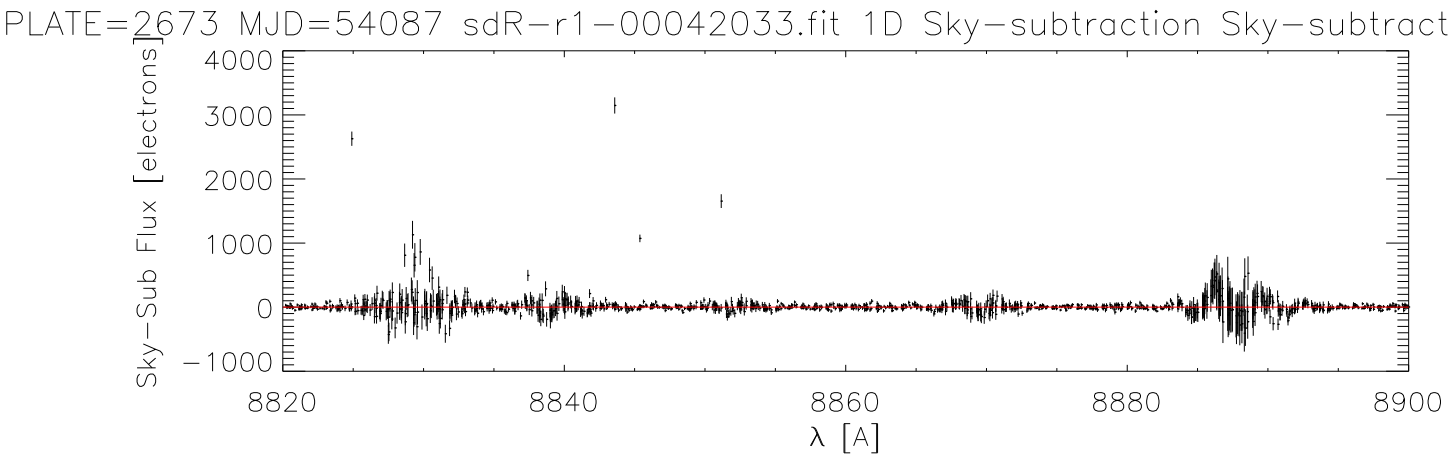

6300.3040
mfib1 31
mfib2 31
stdev 0.028
extra -0.22
6363.7760
mfib1 30
mfib2 31
stdev 0.032
extra -0.10
6553.6100
mfib1 31
mfib2 31
stdev 0.038
extra -0.15
6923.2100
mfib1 31
mfib2 31
stdev 0.030
extra -0.11
6949.0300
mfib1 31
mfib2 31
stdev 0.026
extra -0.07
7571.7500
mfib1 31
mfib2 31
stdev 0.025
extra -0.05
7794.1200
mfib1 30
mfib2 30
stdev 0.020
extra -0.48
7821.5100
mfib1 30
mfib2 30
stdev 0.019
extra -0.13
8399.1600
mfib1 31
mfib2 31
stdev 0.017
extra -0.10
8430.1700
mfib1 31
mfib2 31
stdev 0.019
extra -0.12
8885.8300
mfib1 31
mfib2 31
stdev 0.022
extra -0.40
8919.6100
mfib1 31
mfib2 31
stdev 0.018
extra -0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

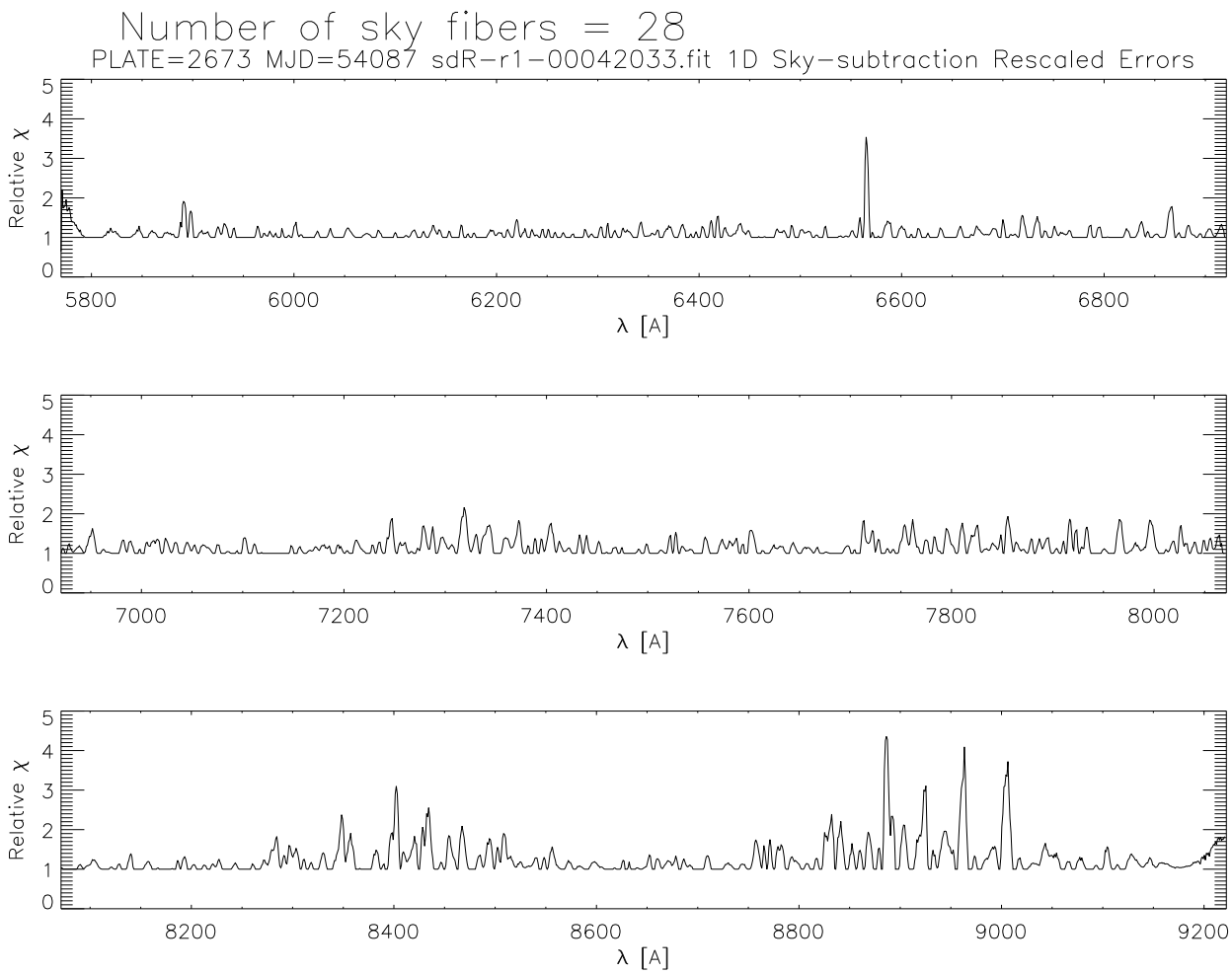

−0.05
−0.10
−0.15
−0.20
sky shift, pixels
5000
6000
7000
8000
9000
10000

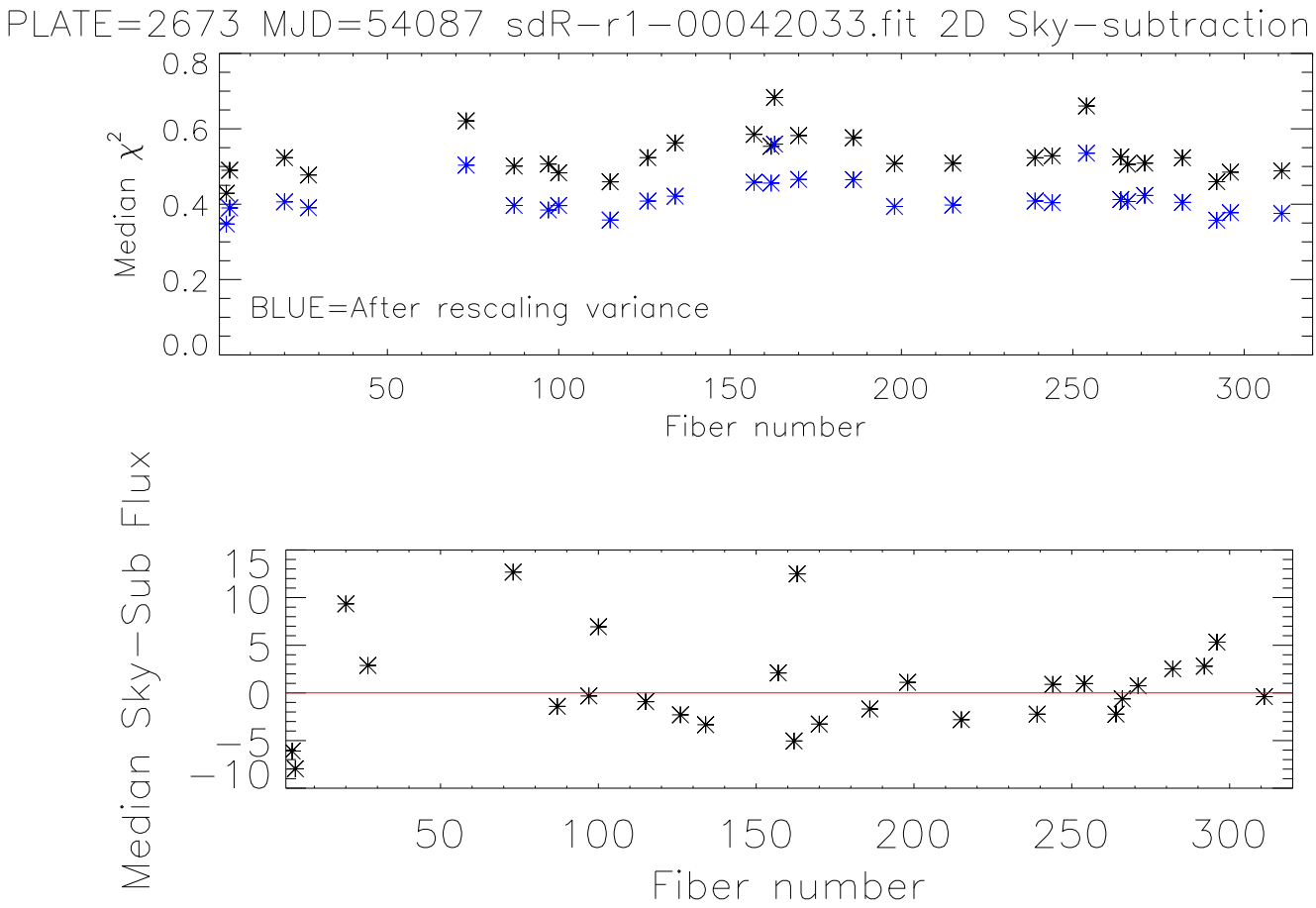

PLATE=2673 MJD=54087 Smooth superflat for sdR-r1-00042033.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

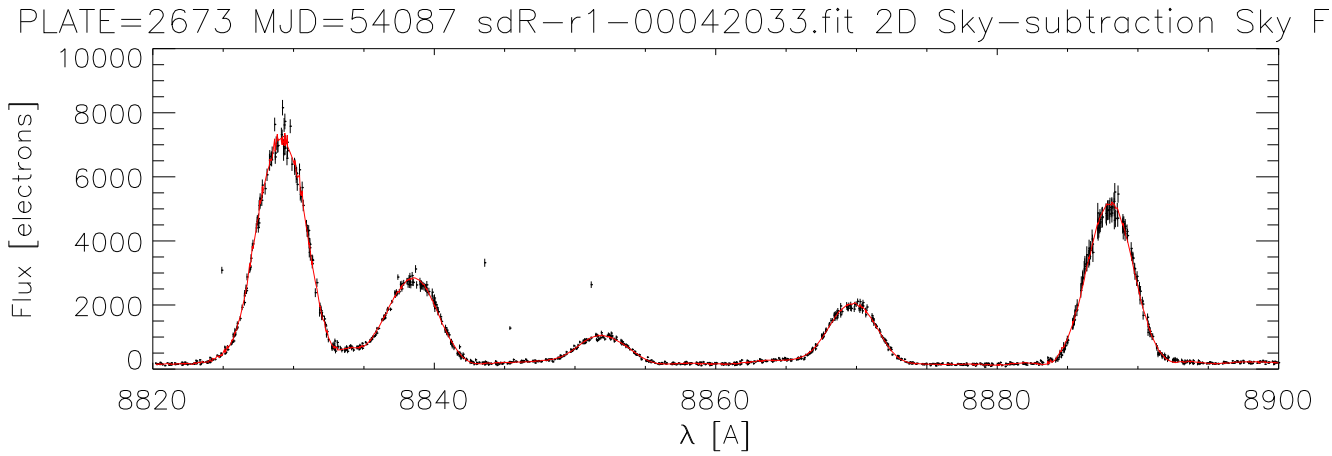

PLATE=2673 MJD=54087 sdR-r1-00042033.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

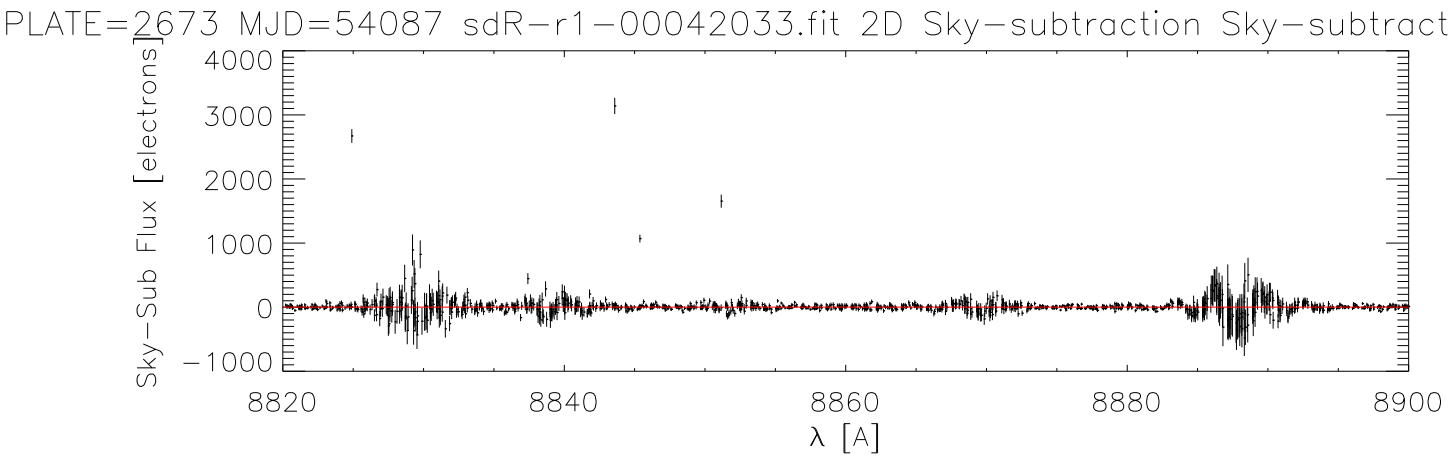

PLATE=2673 MJD=54087 sdR-r1-00042033.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

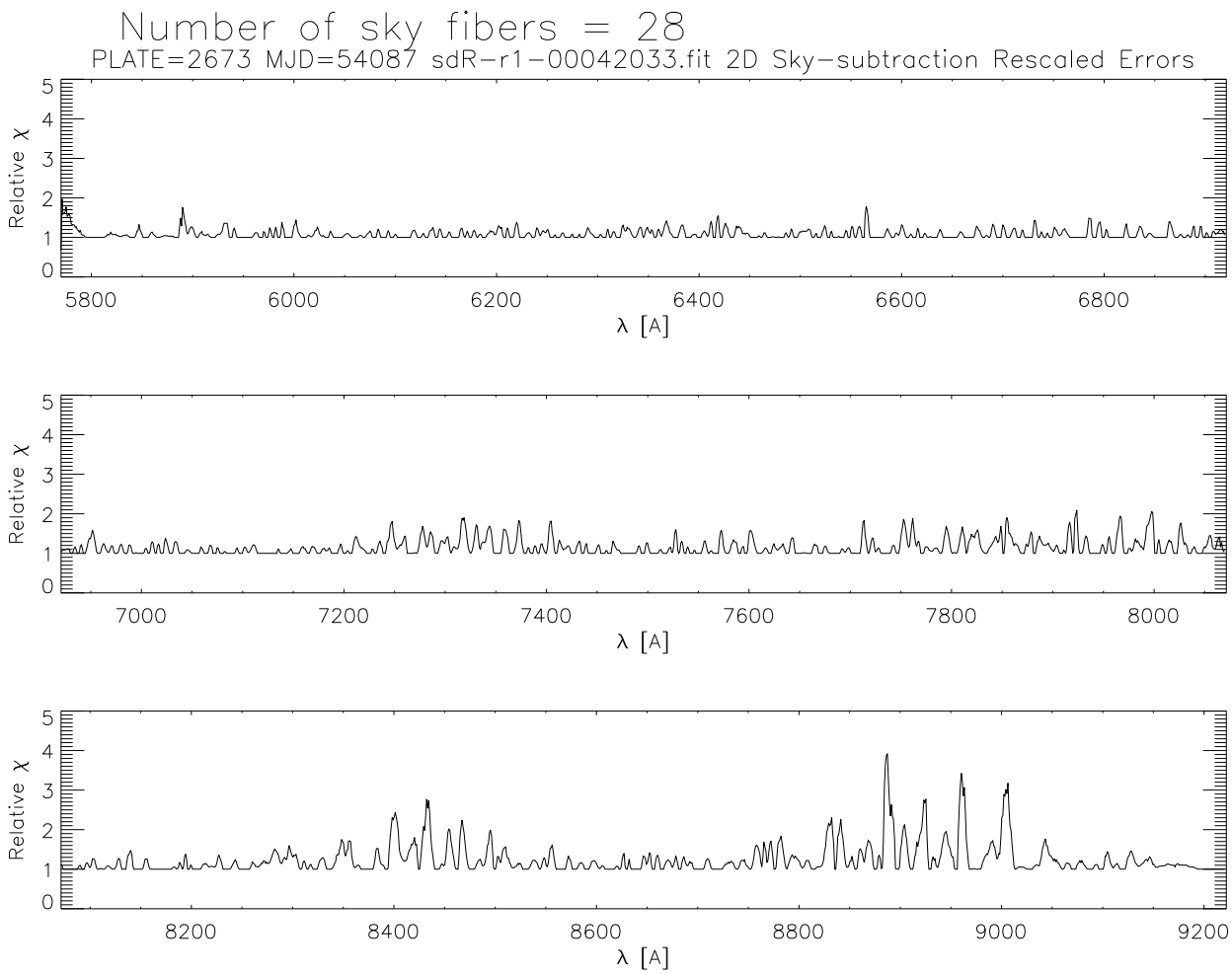

PLATE=2673 MJD=54087 sdR-r1-00042033.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

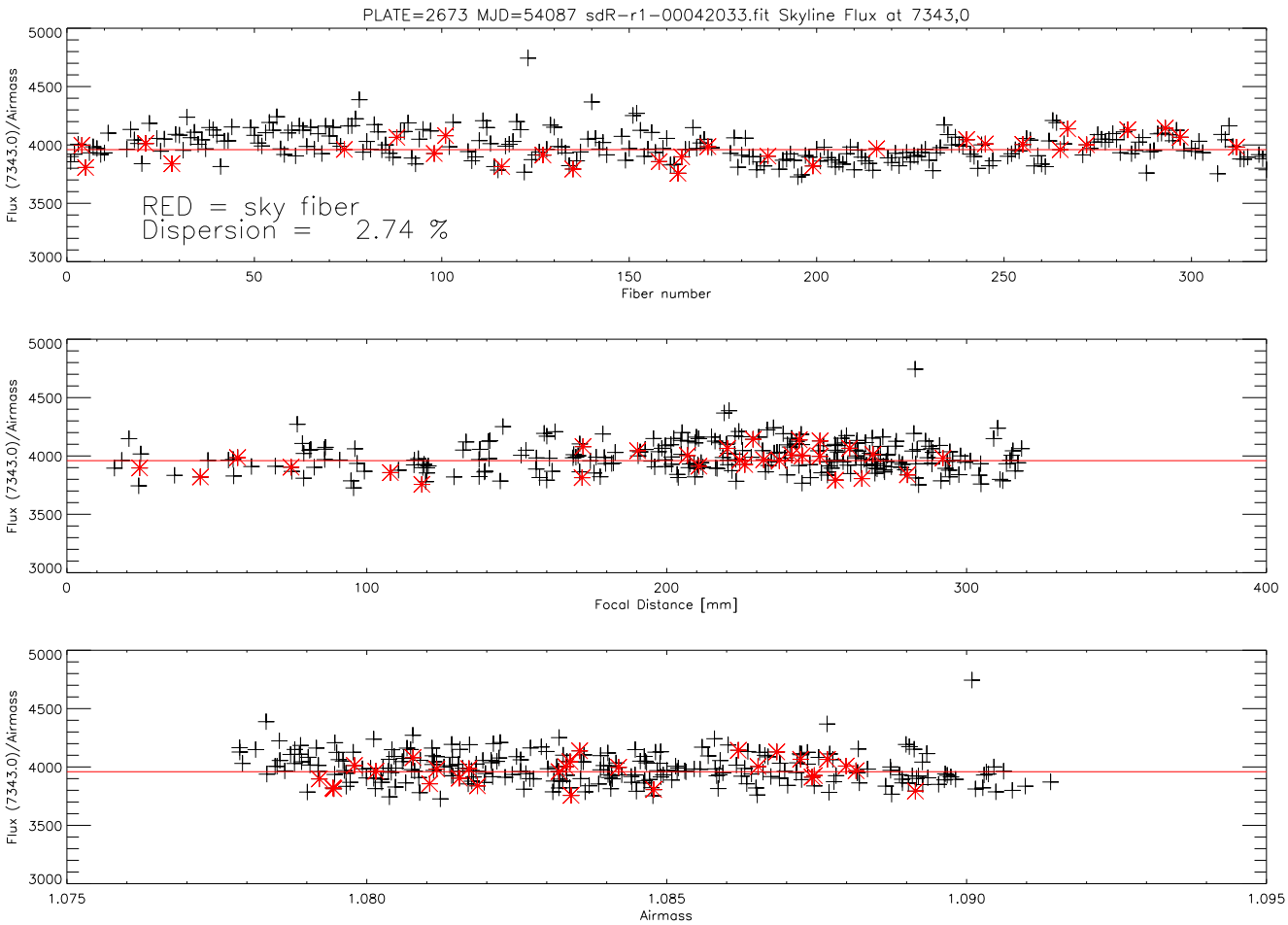

Number of sky fibers = 28
PLATE=2673 MJD=54087 sdR-r1-00042033.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

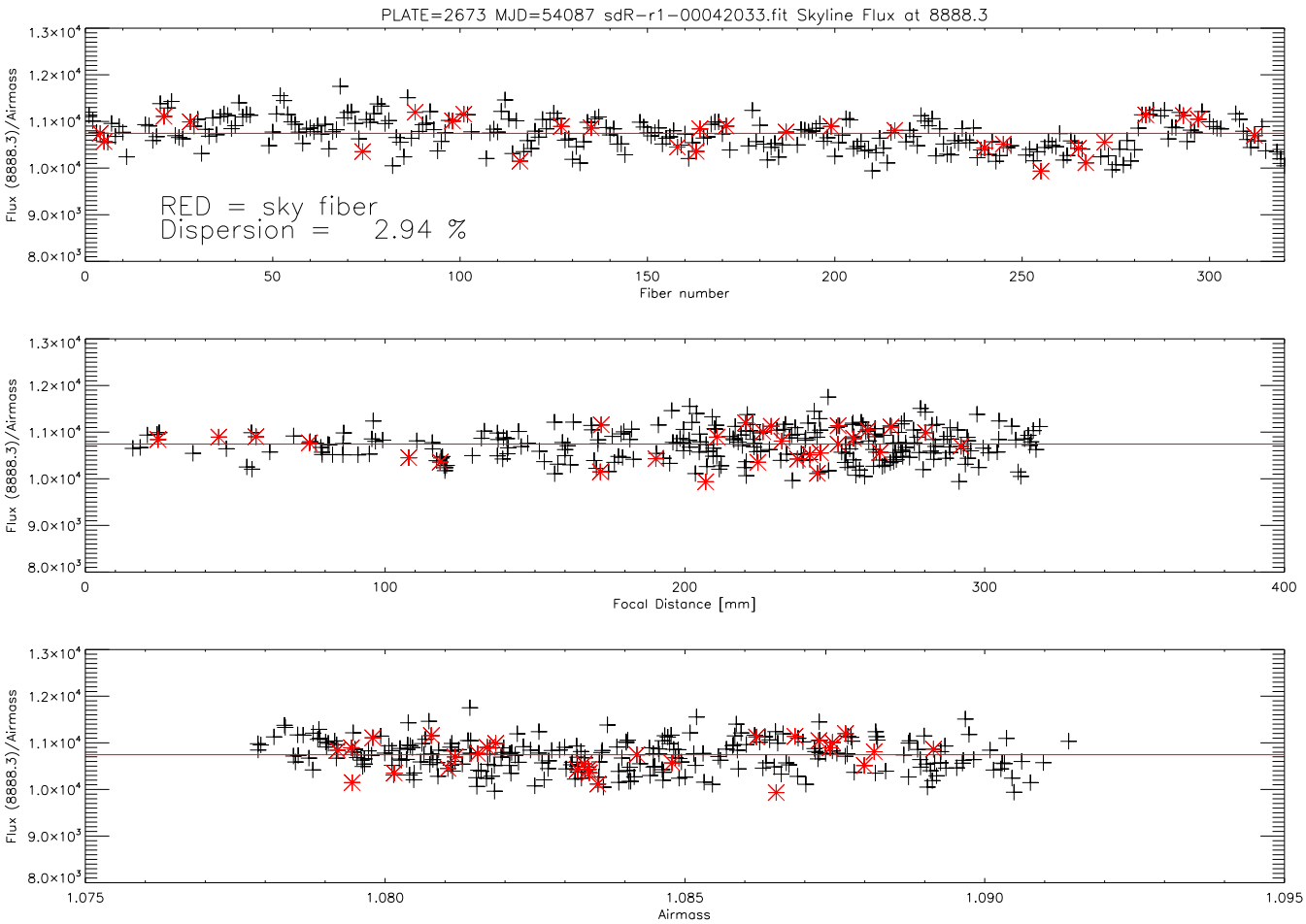

PLATE=2673 MJD=54087 sdR-r1-00042033.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

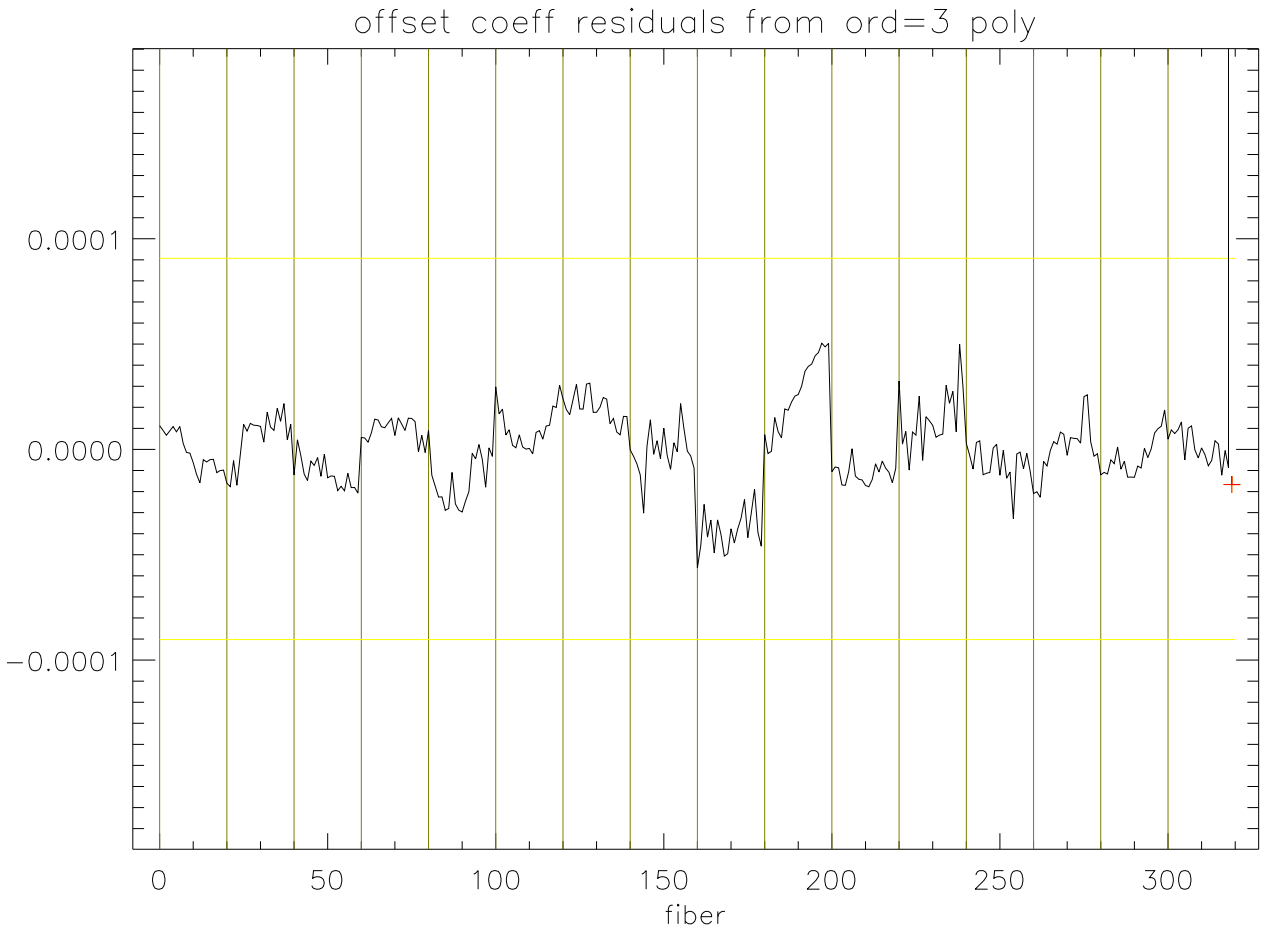

PLATE=2673 MJD=54087 sdR-r1-00042033.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

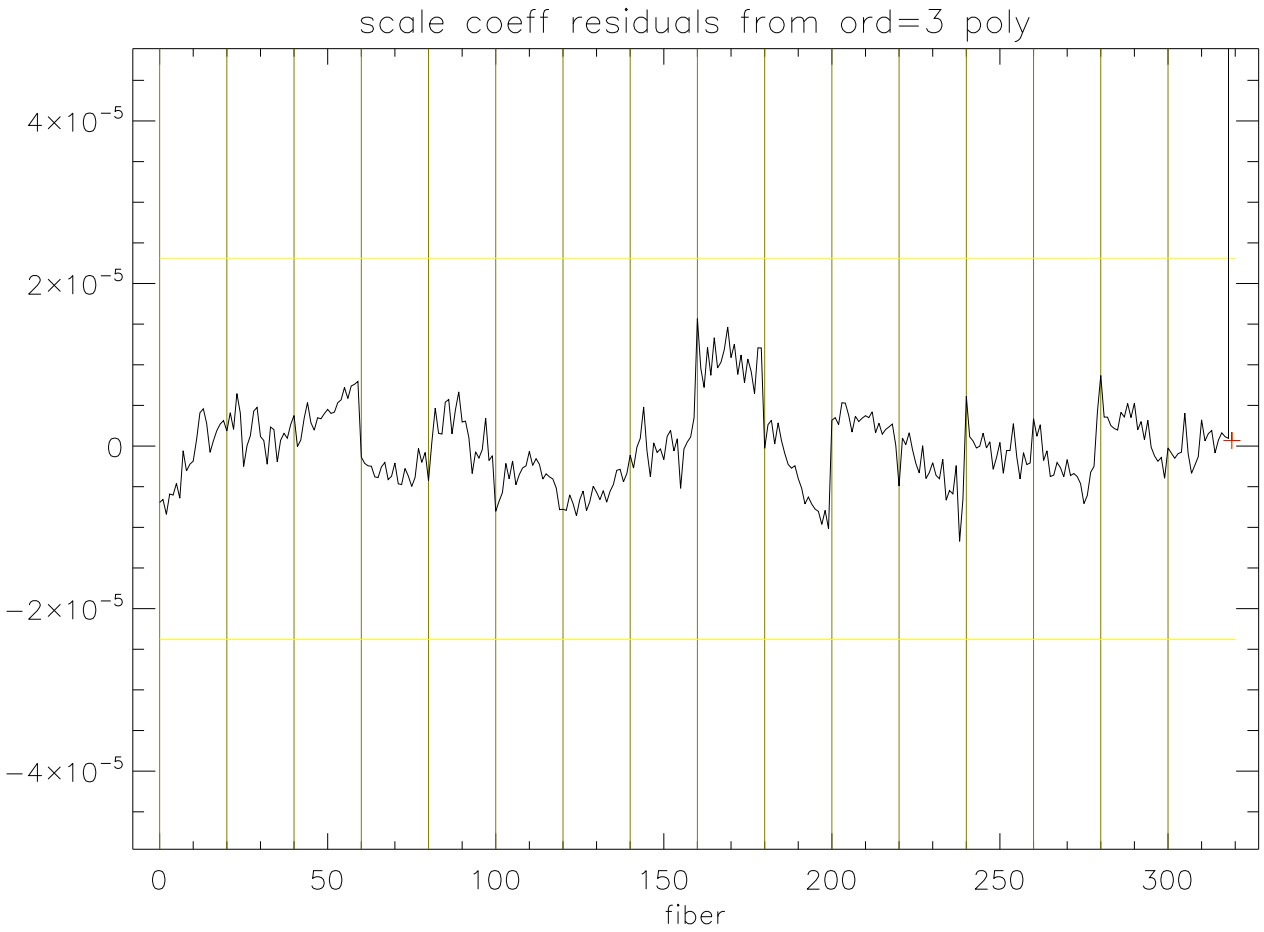

PLATE=2673 MJD=54087 sdR-r1-00042033.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

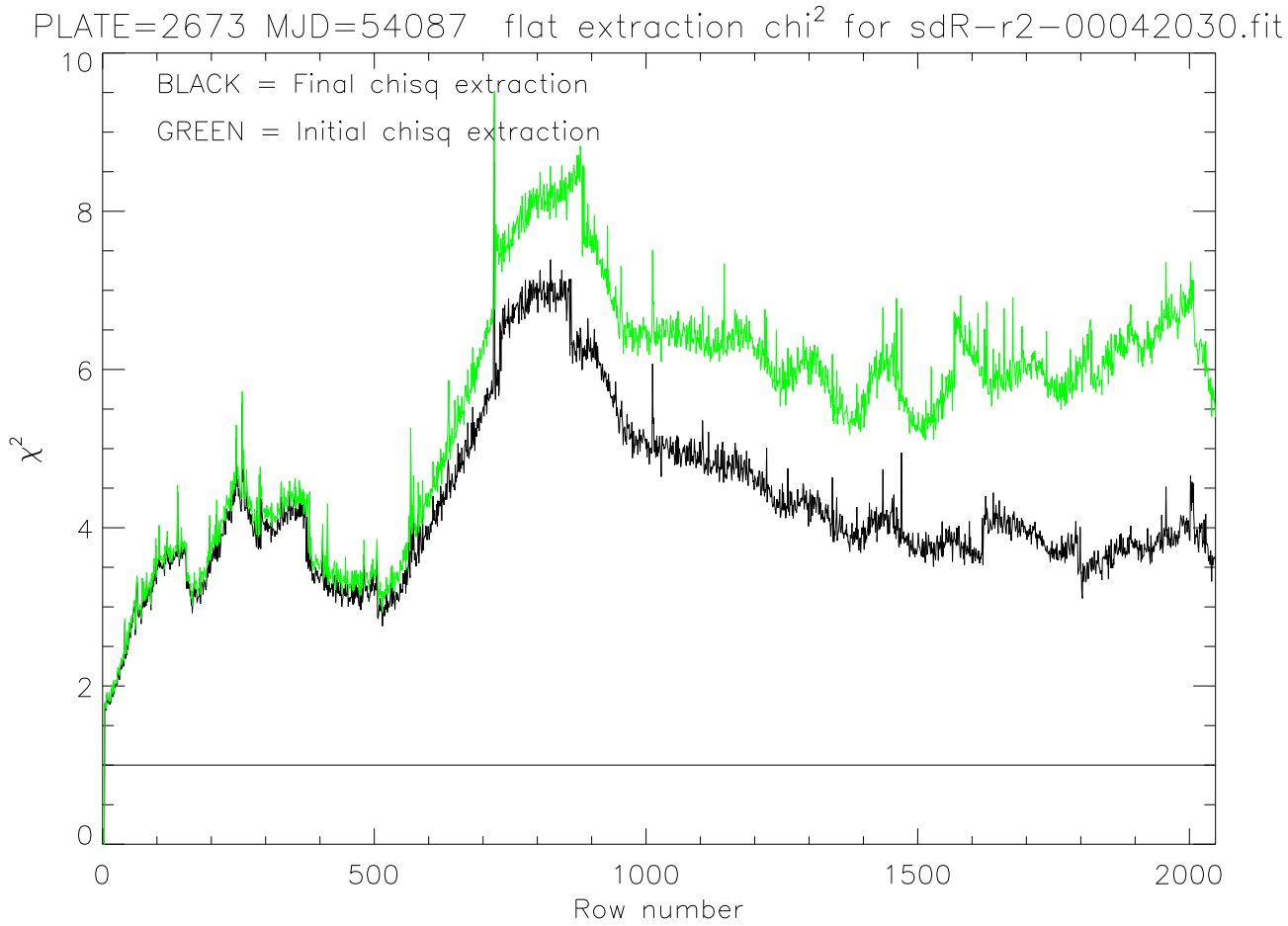

Number of sky fibers = 28
PLATE=2673 MJD=54087 sdR-r1-00042033.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

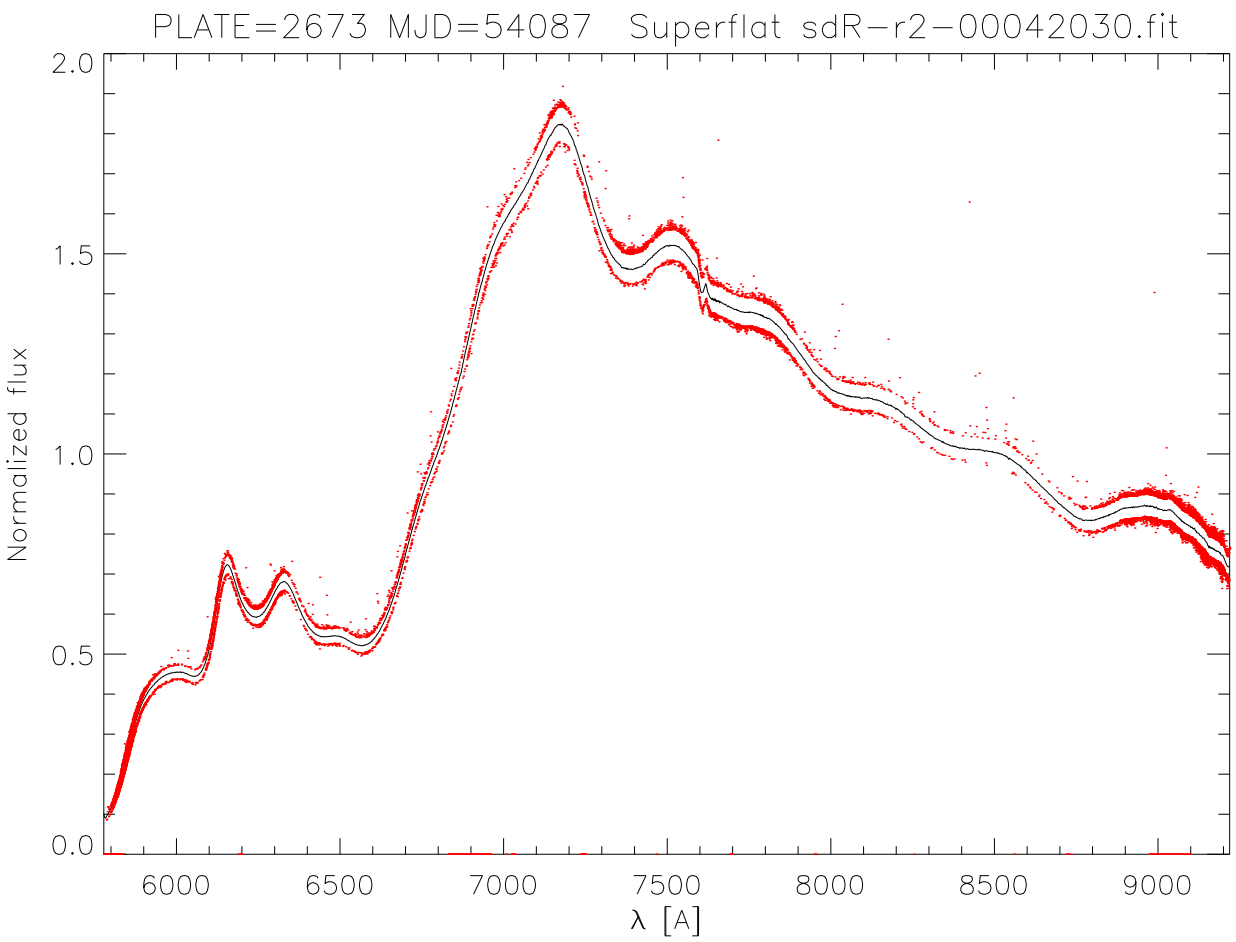

PLATE=2673 MJD=54087 sdR-r1-00042033.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.74 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

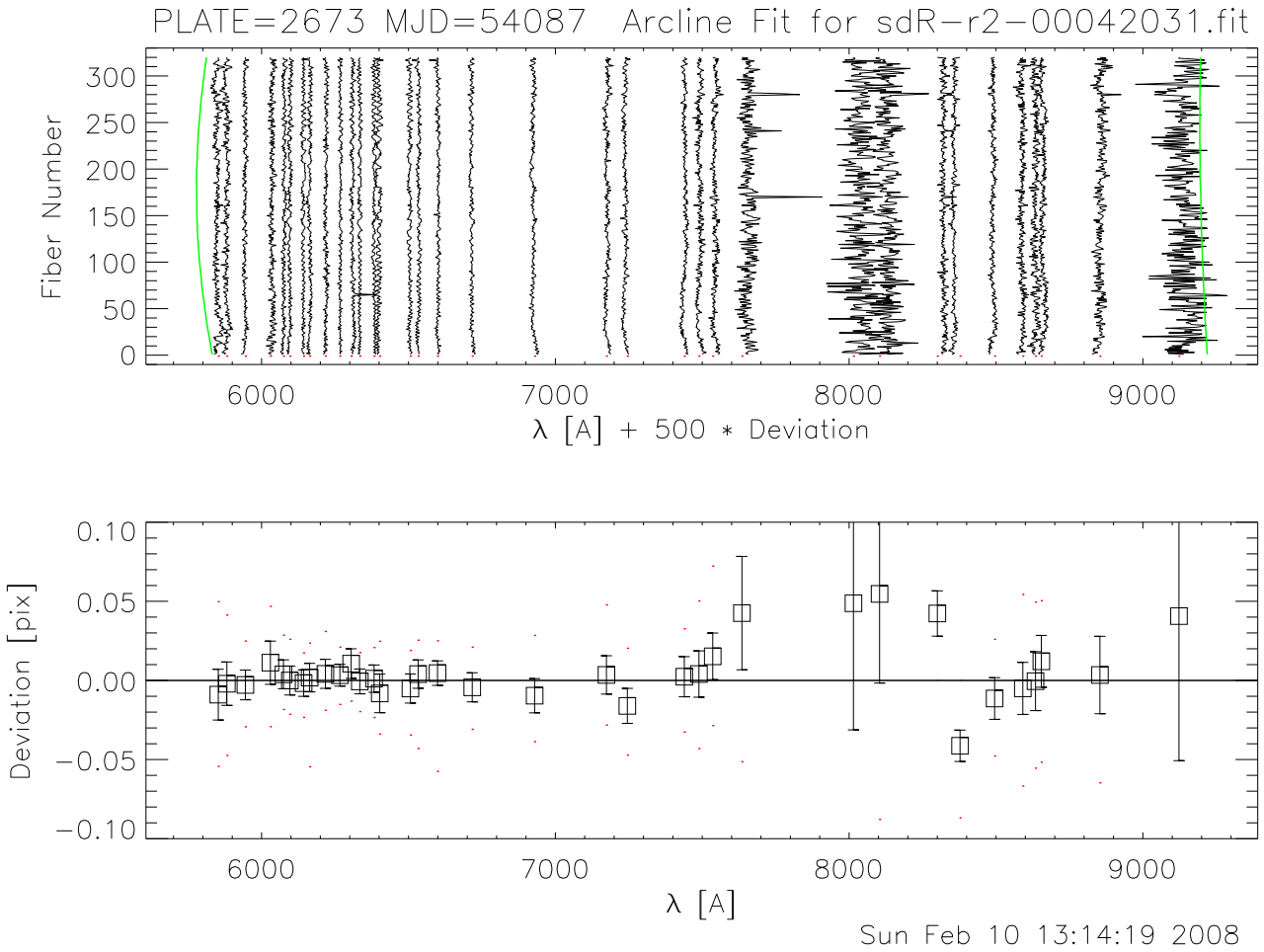

PLATE=2673 MJD=54087 sdR-r1-00042033.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.94 %
Fiber number
Focal Distance [mm]
Airmass

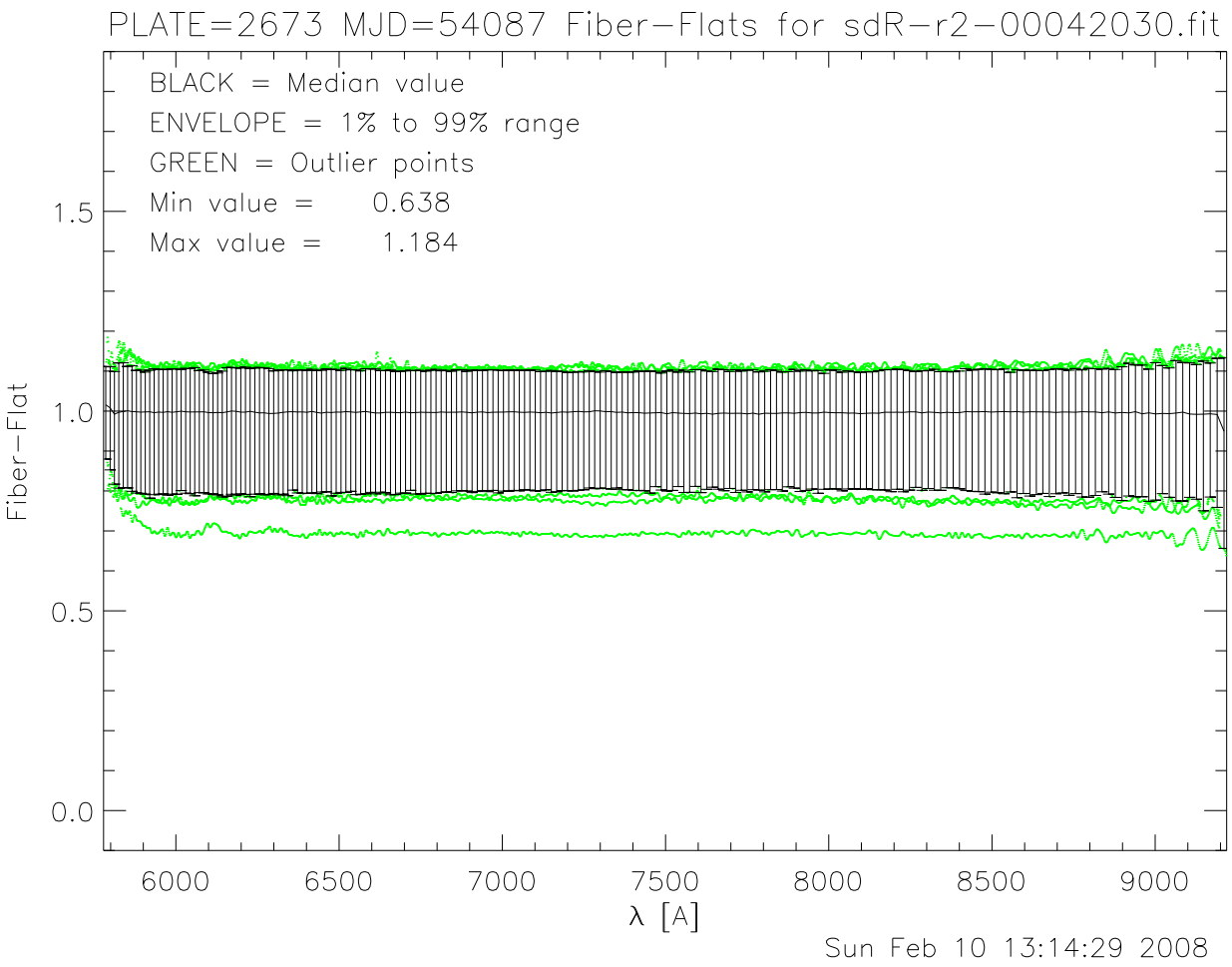

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

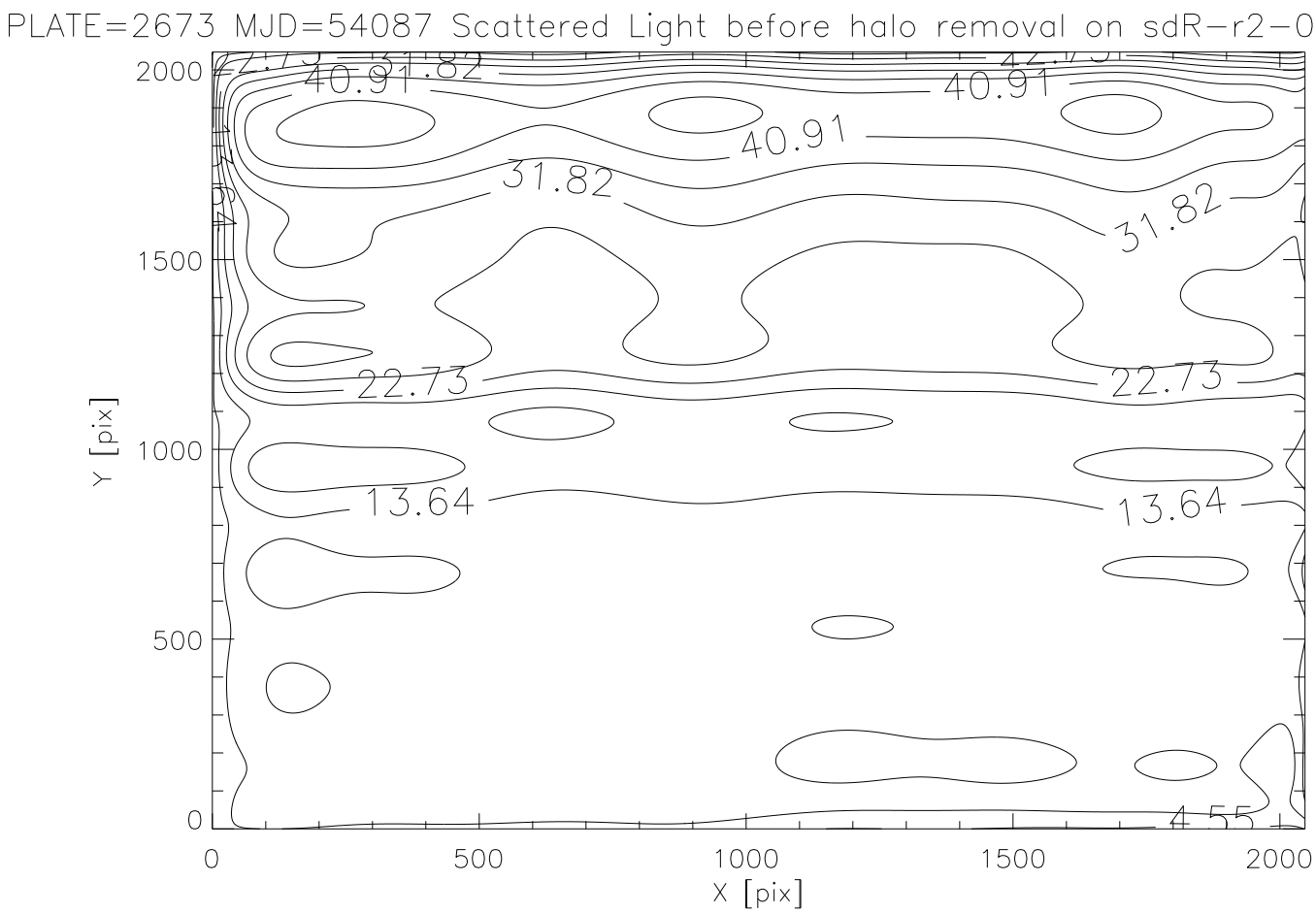

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

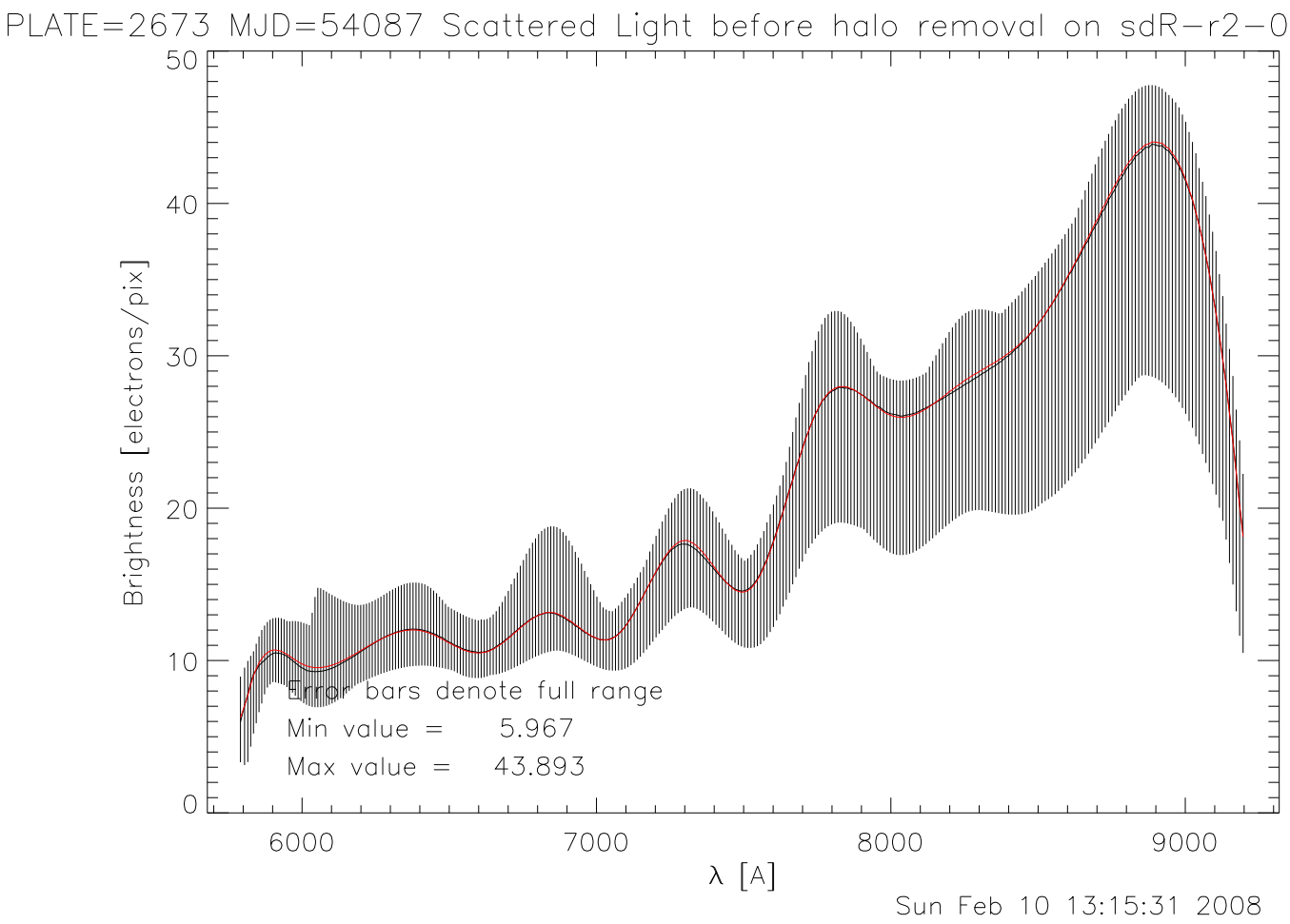

PLATE=2673 MJD=54087 flat extraction chi^2 for sdR−r2−00042030.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

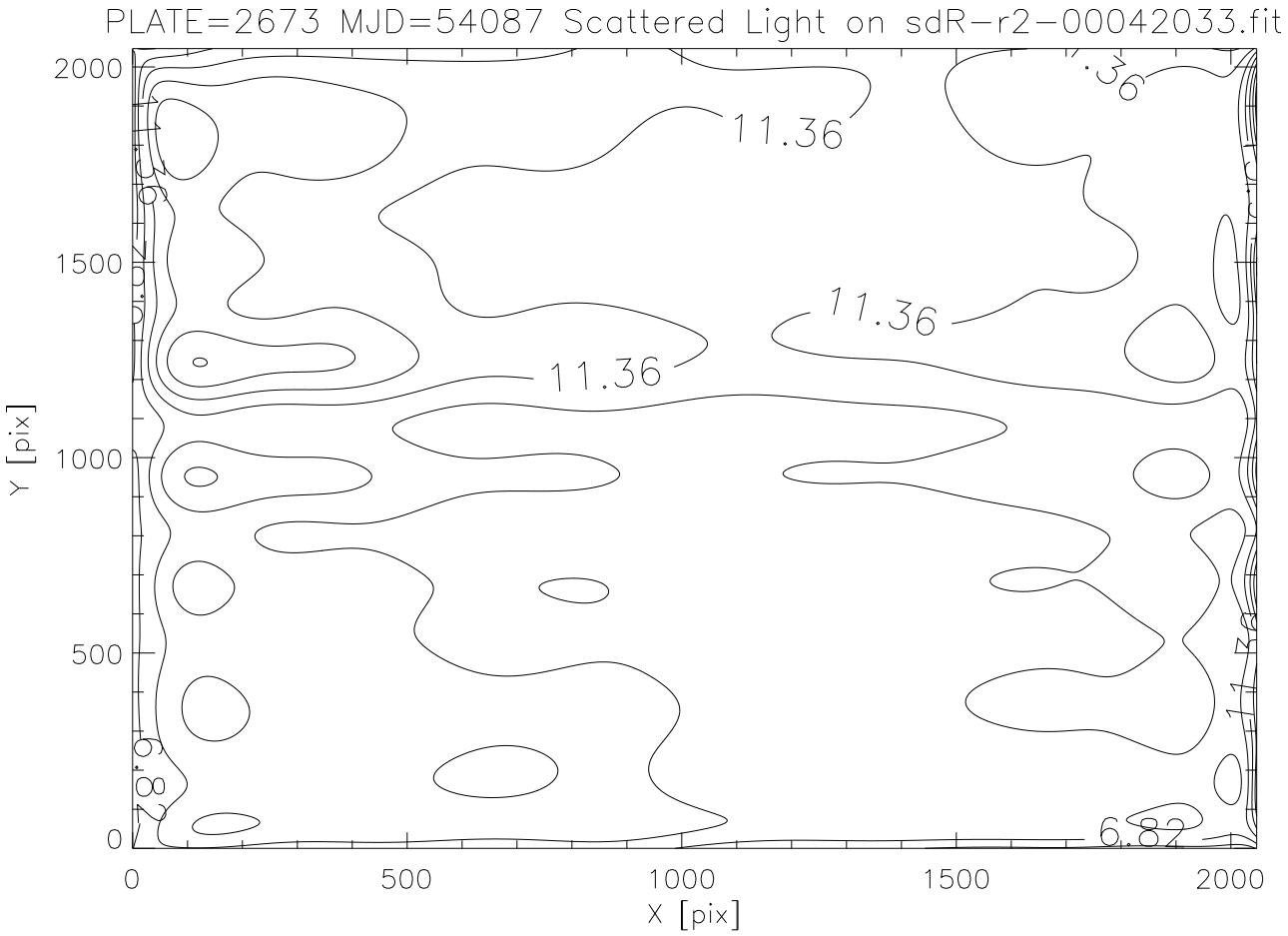

PLATE=2673 MJD=54087 Superflat sdR-r2-00042030.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

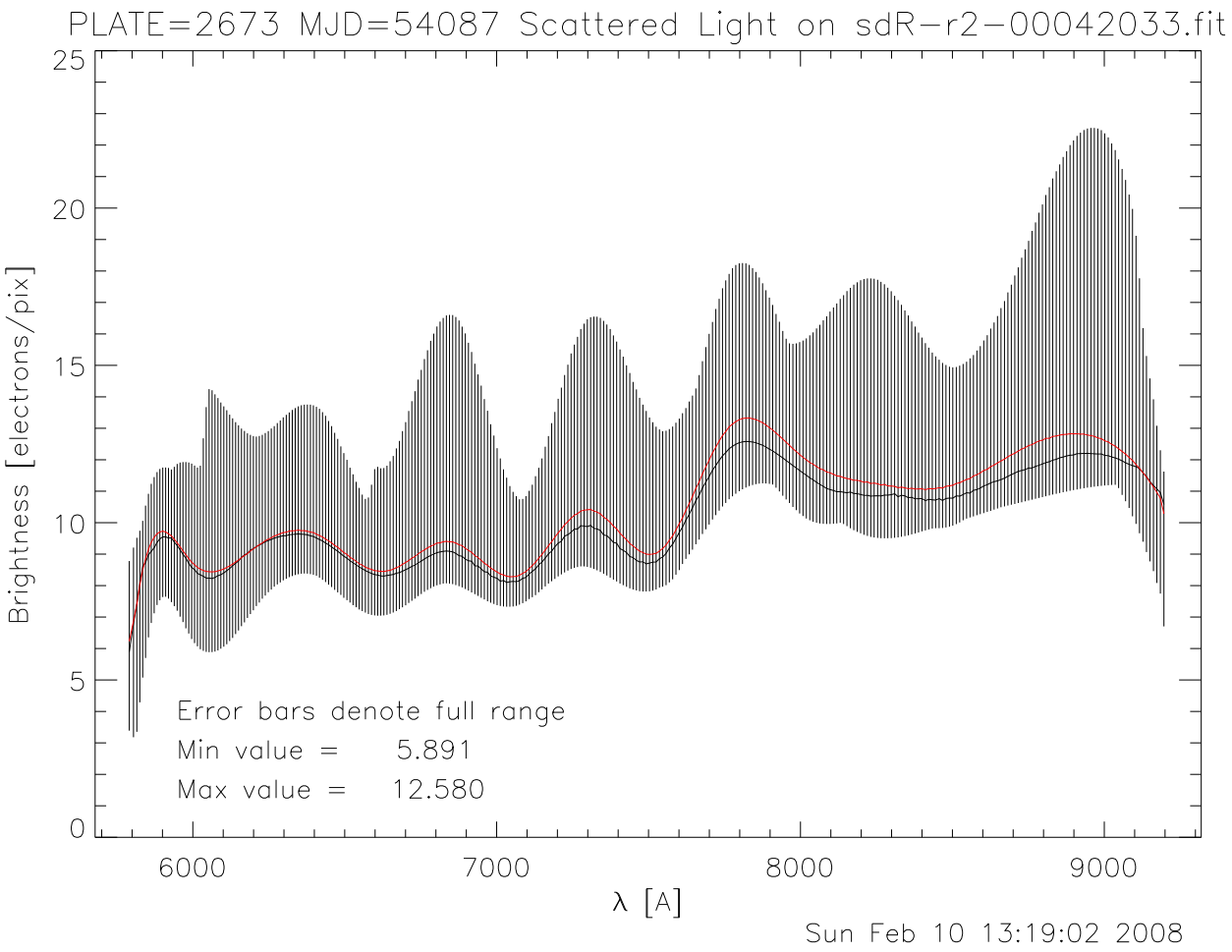

PLATE=2673 MJD=54087 Arcline Fit for sdR-r2-00042031.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sun Feb 10 13:14:19 2008

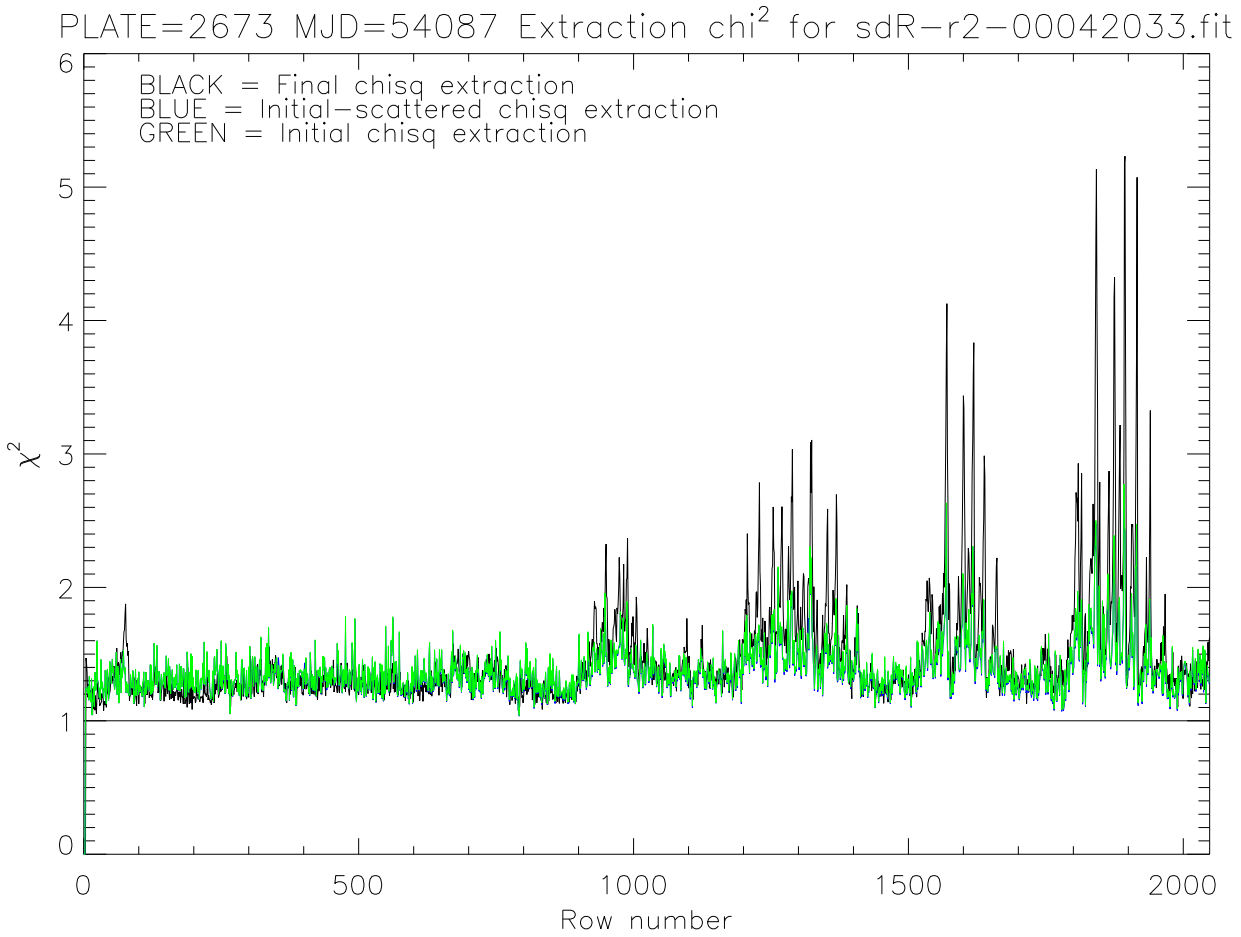

PLATE=2673 MJD=54087 Fiber−Flats for sdR−r2−00042030.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.638
Max value = 1.184
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 10 13:14:29 2008

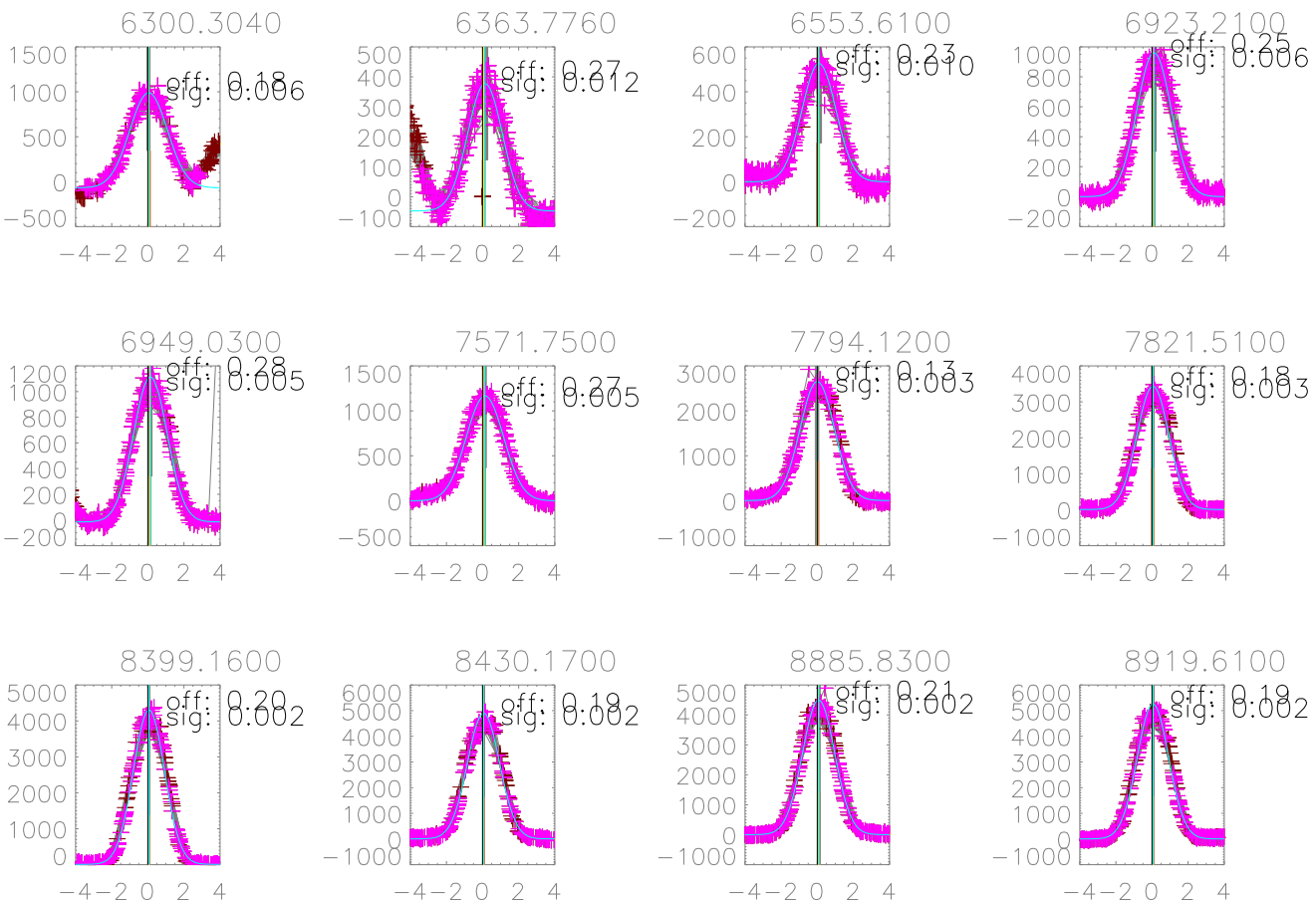

PLATE=2673 MJD=54087 Scattered Light before halo removal on sdR-r2-00042033.fi
40.91
31.82
22.73
13.64
4.55
Y [pix]
X [pix]
0
500
1000
1500
2000

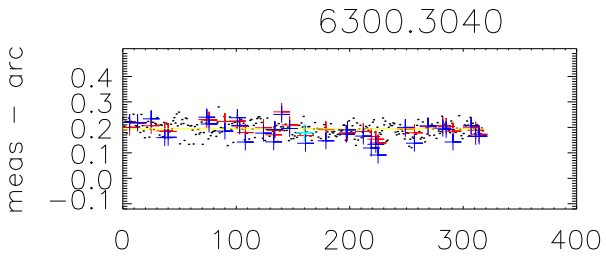

PLATE=2673 MJD=54087 Scattered Light before halo removal on sdR-r2-00042033.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.967
Max value = 43.893
Sun Feb 10 13:15:31 2008

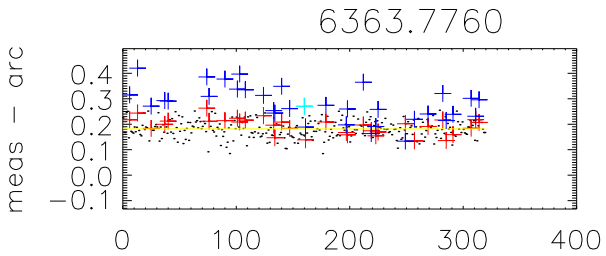

PLATE=2673 MJD=54087 Scattered Light on sdR-r2-00042033.fit
11.36
11.36
11.36
6.82
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

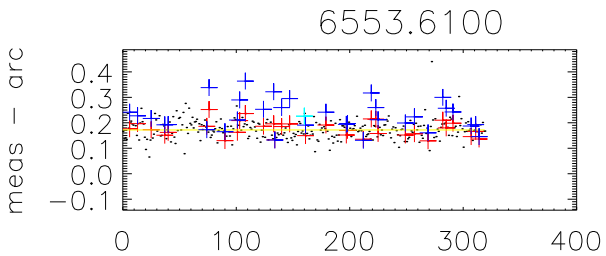

PLATE=2673 MJD=54087 Scattered Light on sdR-r2-00042033.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.891
Max value = 12.580
Sun Feb 10 13:19:02 2008

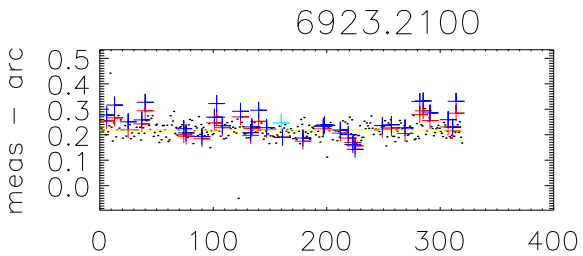

PLATE=2673 MJD=54087 Extraction chi^2 for sdR−r2−00042033.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

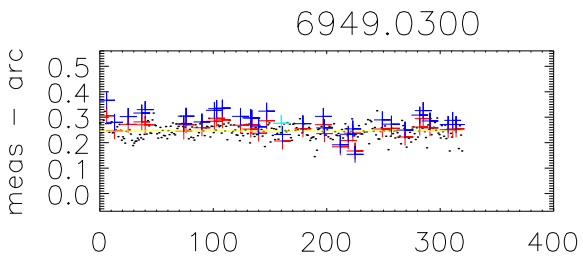

6300.3040
off: 0.18
sig: 0.006
6363.7760
off: 0.27
sig: 0.012
6553.6100
off: 0.23
sig: 0.010
6923.2100
off: 0.25
sig: 0.006
6949.0300
off: 0.28
sig: 0.005
7571.7500
off: 0.27
sig: 0.005
7794.1200
off: 0.13
sig: 0.003
7821.5100
off: 0.18
sig: 0.003
8399.1600
off: 0.20
sig: 0.002
8430.1700
off: 0.19
sig: 0.002
8885.8300
off: 0.21
sig: 0.002
8919.6100
off: 0.19
sig: 0.002

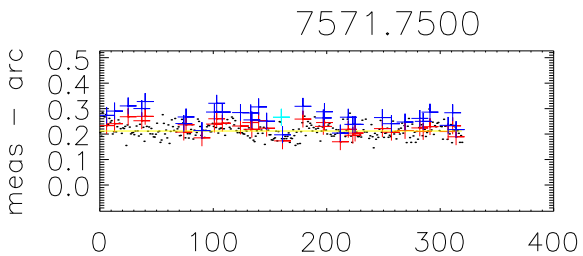

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

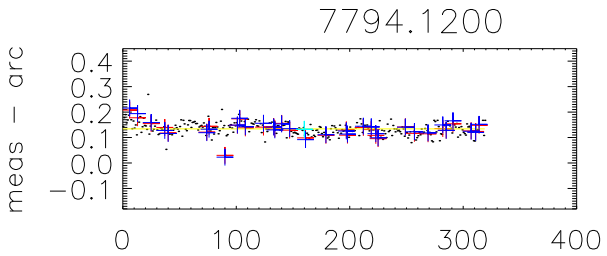

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

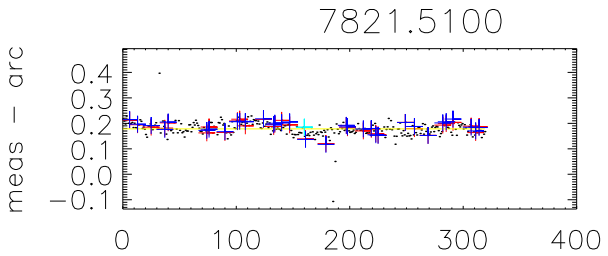

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

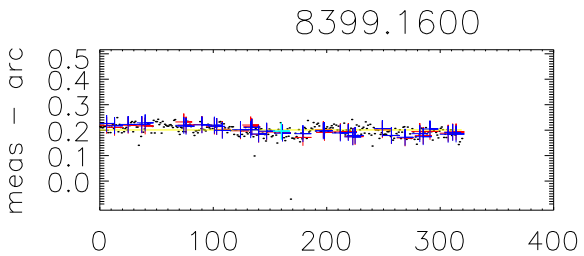

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

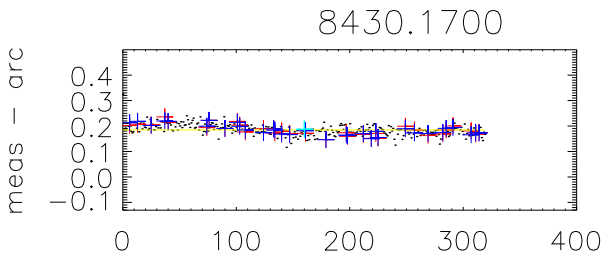

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

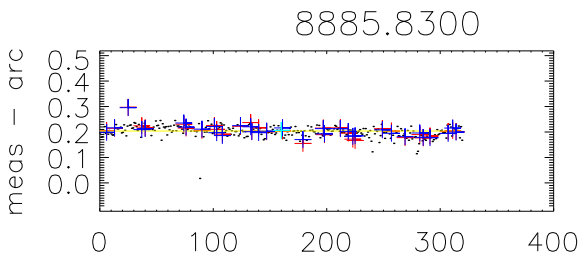

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

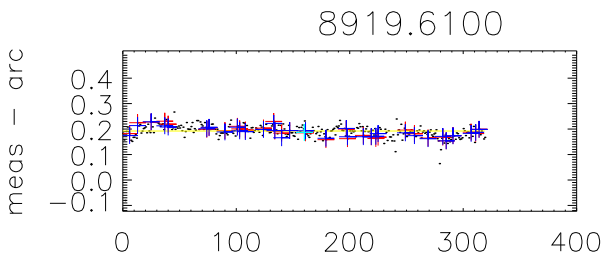

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

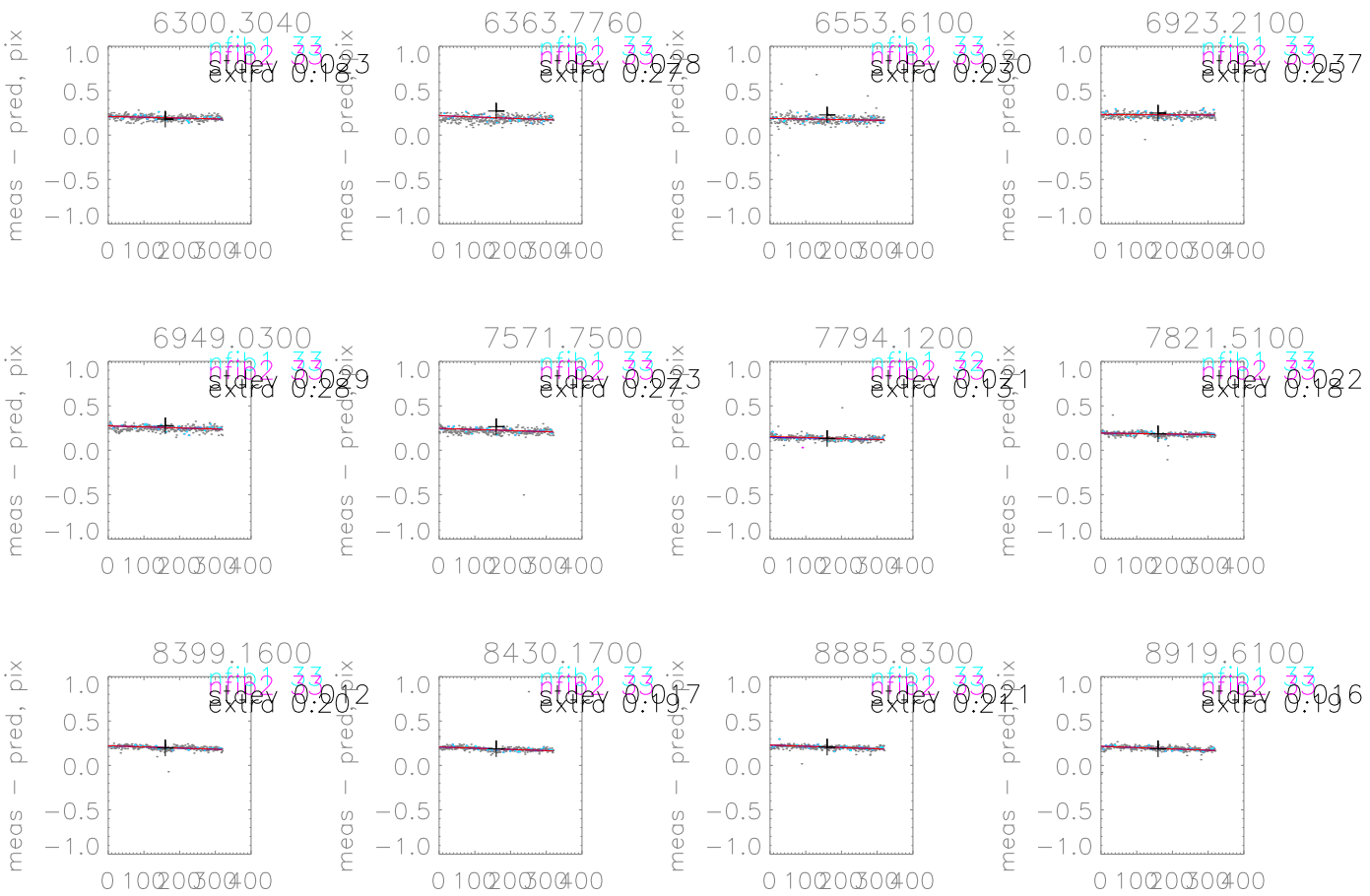

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

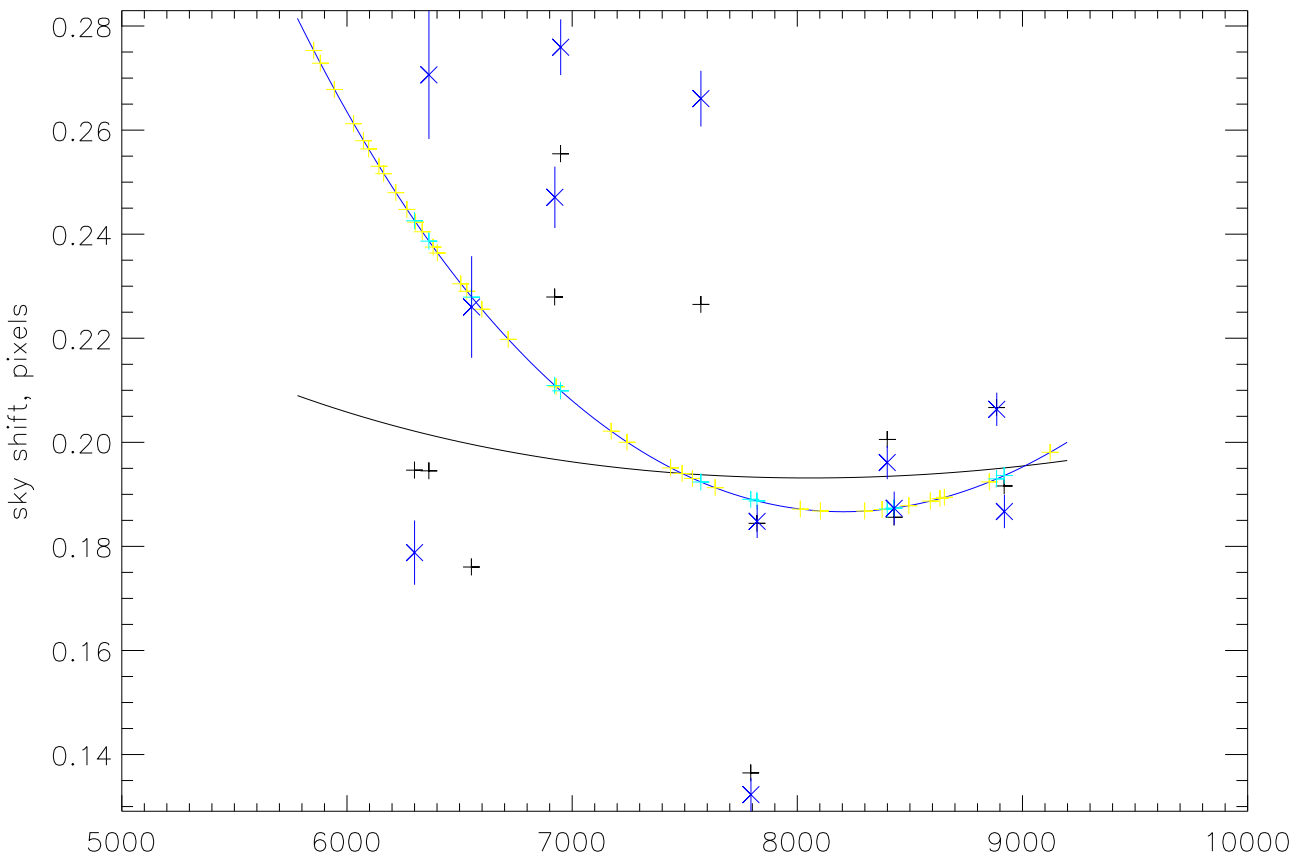

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

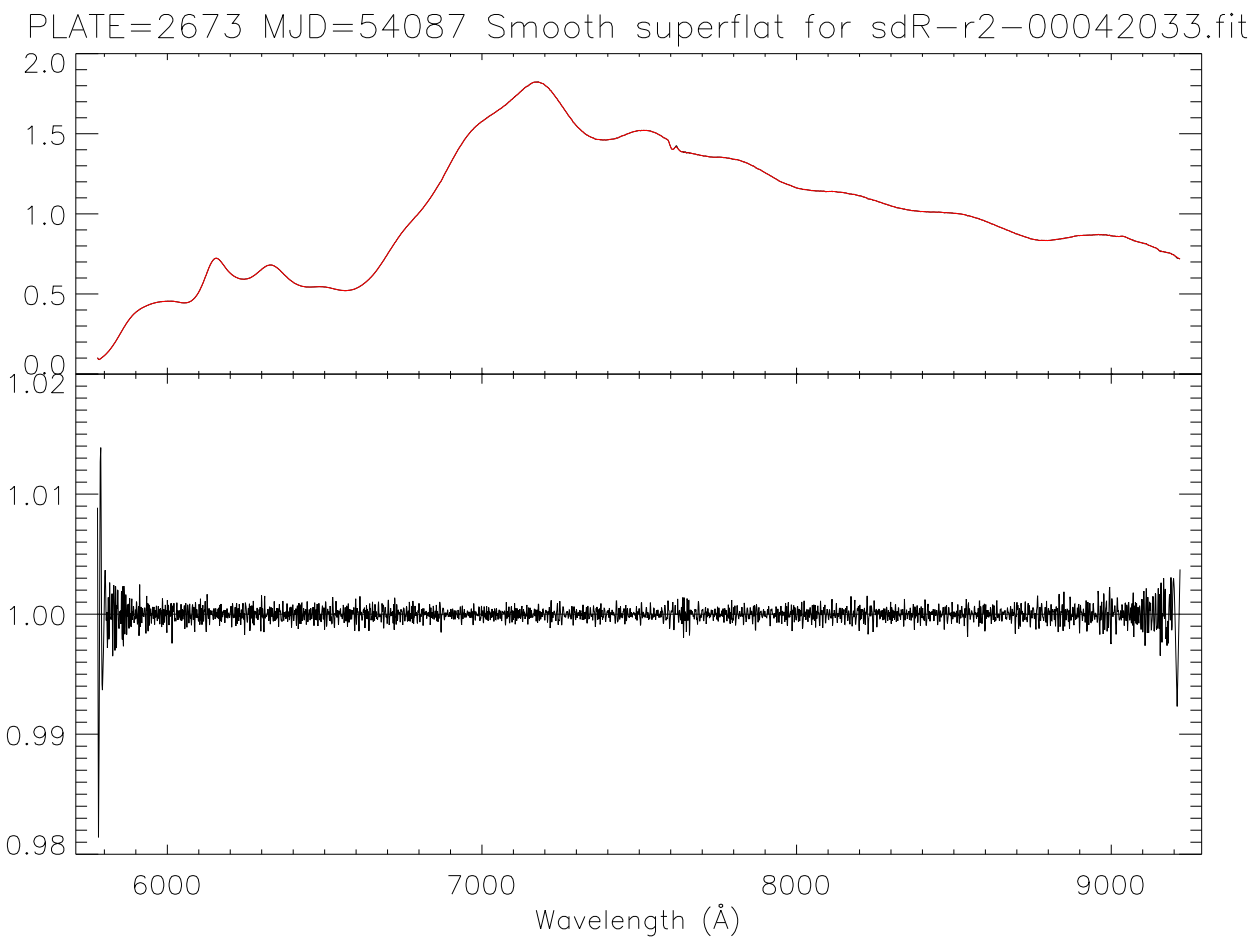

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

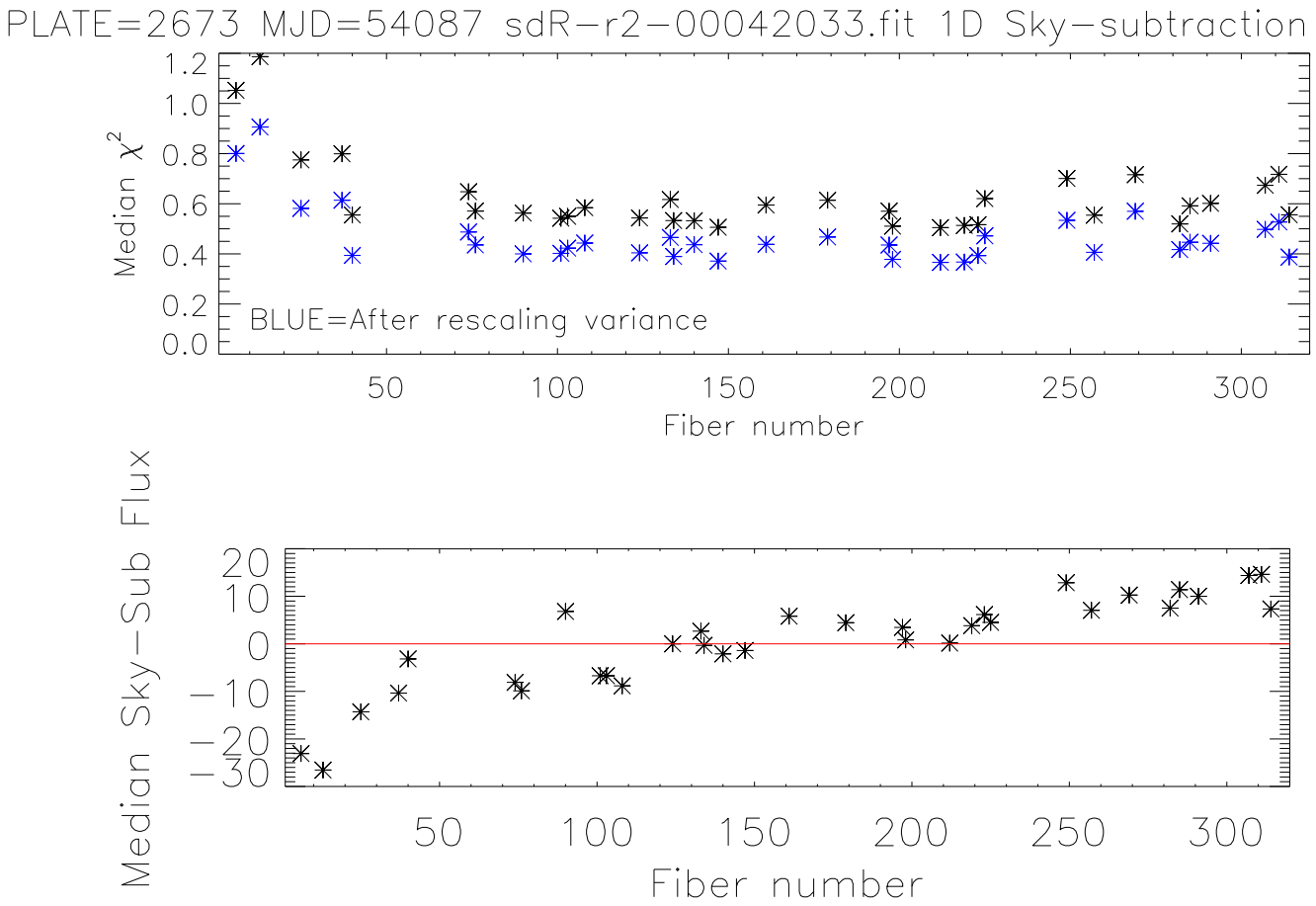

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

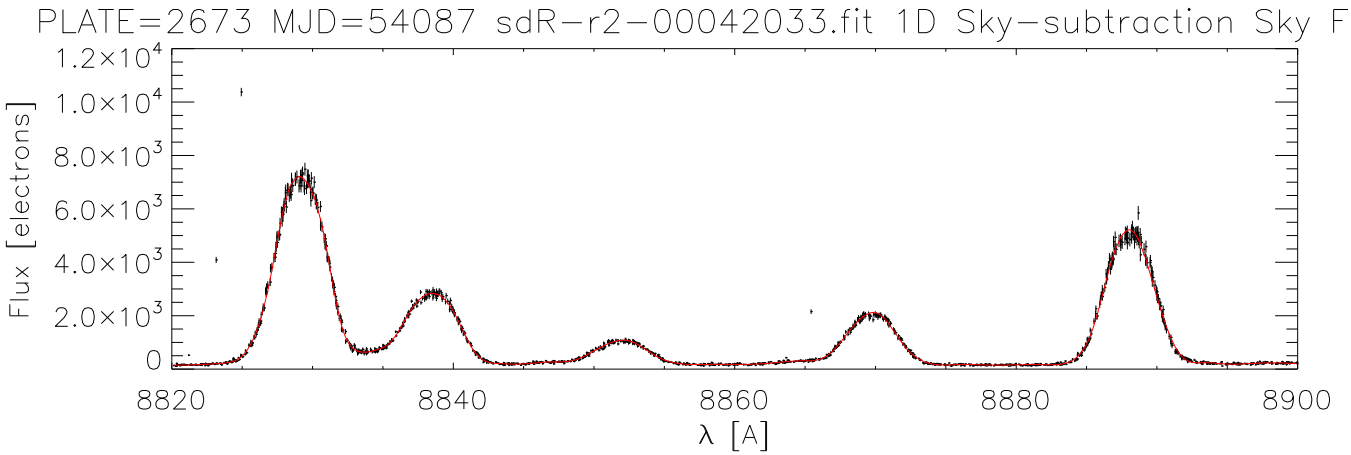

6300.3040
stdev 0.023
extra 0.18
6363.7760
stdev 0.028
extra 0.27
6553.6100
stdev 0.030
extra 0.23
6923.2100
stdev 0.037
extra 0.25
6949.0300
stdev 0.029
extra 0.28
7571.7500
stdev 0.023
extra 0.27
7794.1200
stdev 0.021
extra 0.13
7821.5100
stdev 0.022
extra 0.18
8399.1600
stdev 0.012
extra 0.20
8430.1700
stdev 0.017
extra 0.19
8885.8300
stdev 0.021
extra 0.21
8919.6100
stdev 0.016
extra 0.19
meas − pred, pix

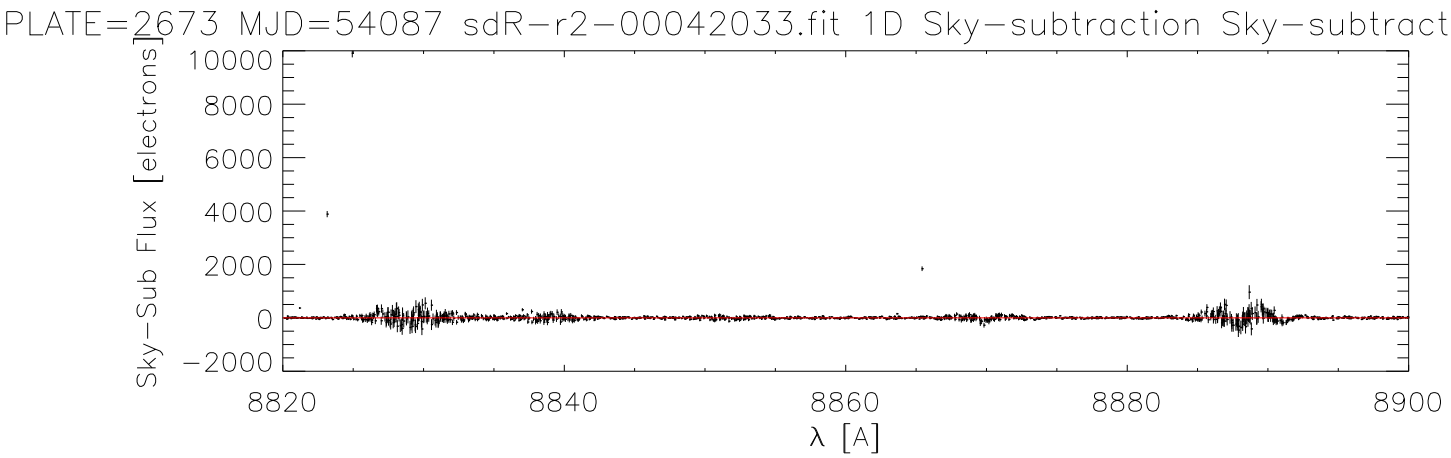

sky shift, pixels
0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
5000
6000
7000
8000
9000
10000

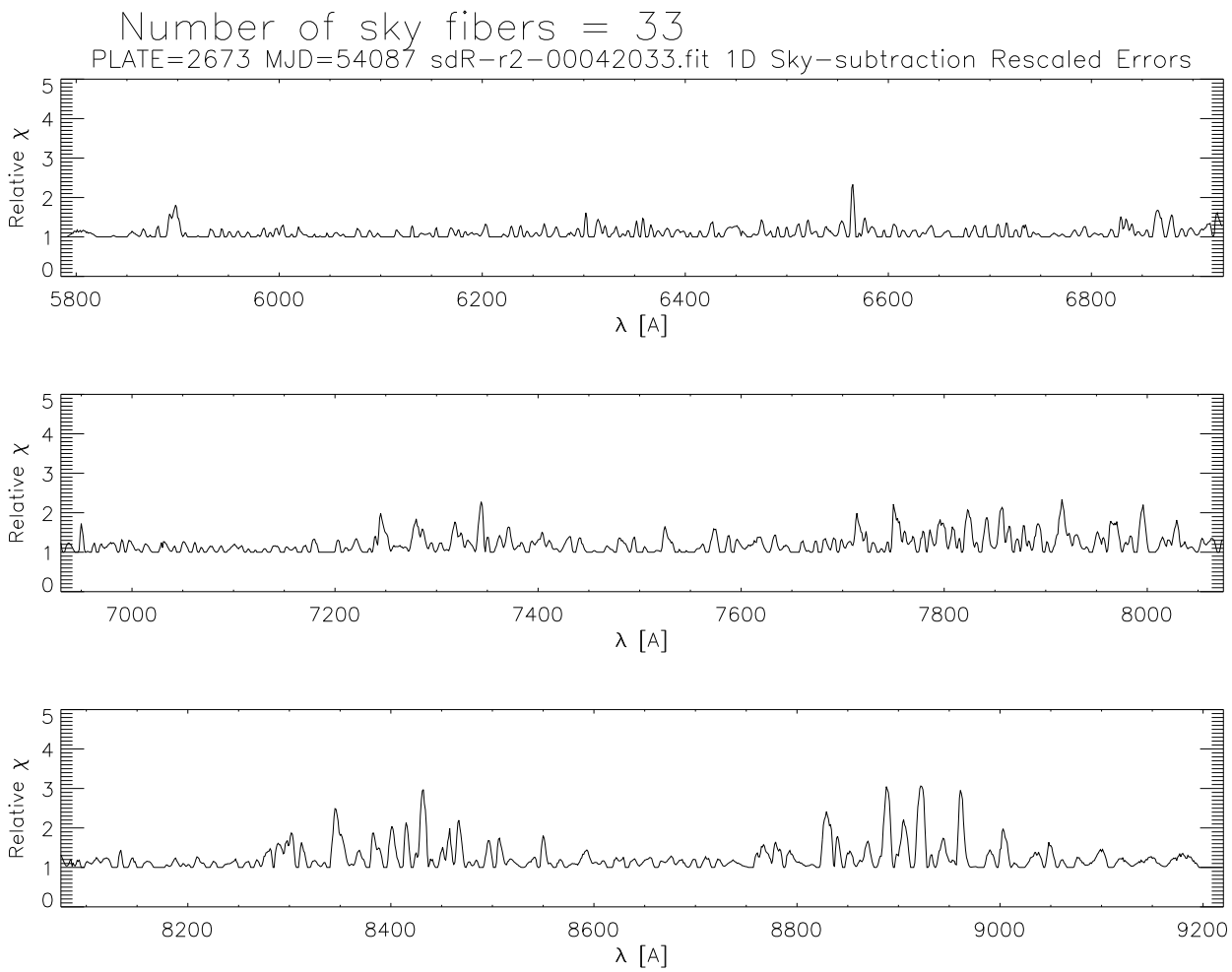
es= −0.0000

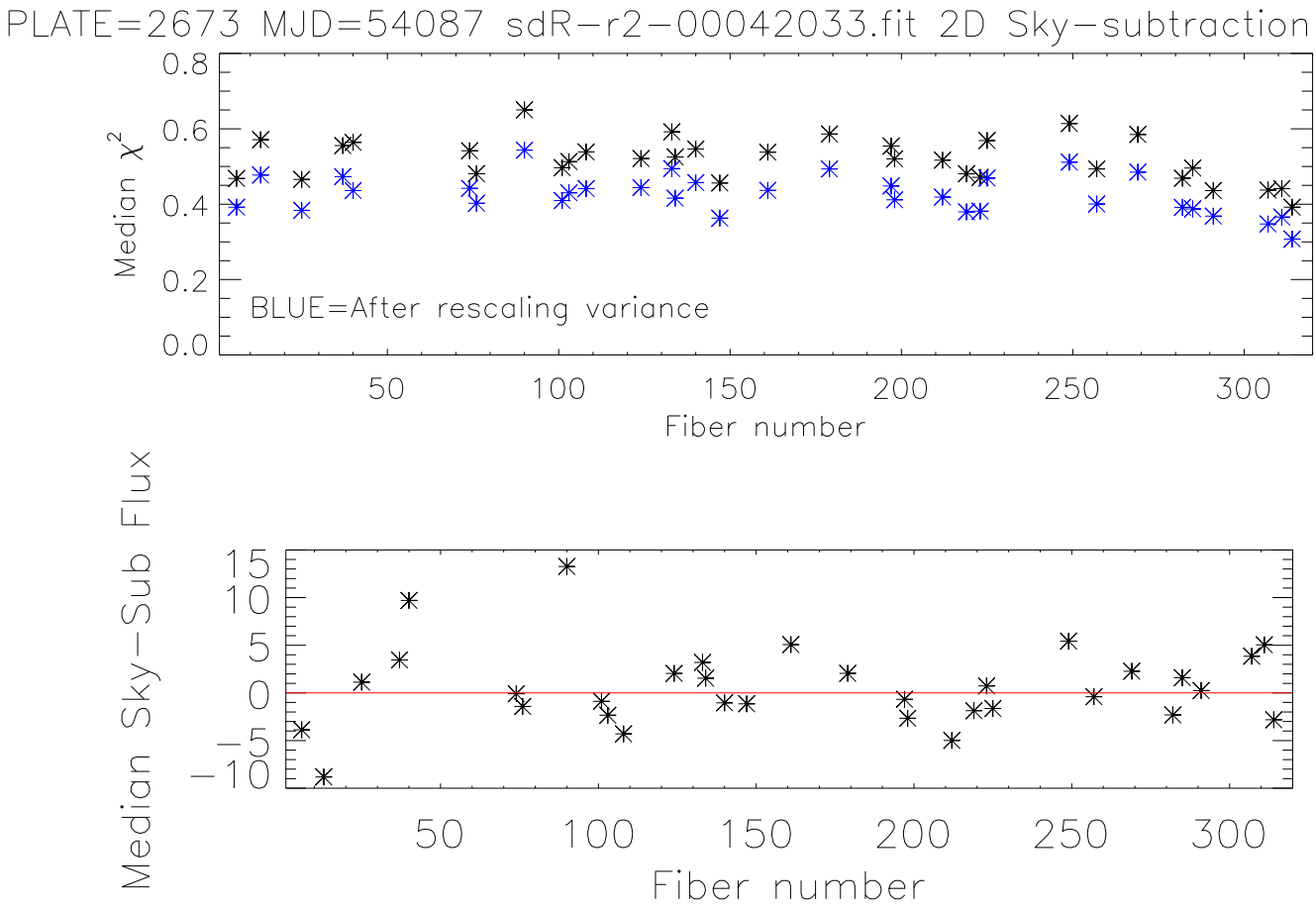

PLATE=2673 MJD=54087 Smooth superflat for sdR−r2−00042033.fit
2.0
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
6000
7000
8000
9000
Wavelength (Å)

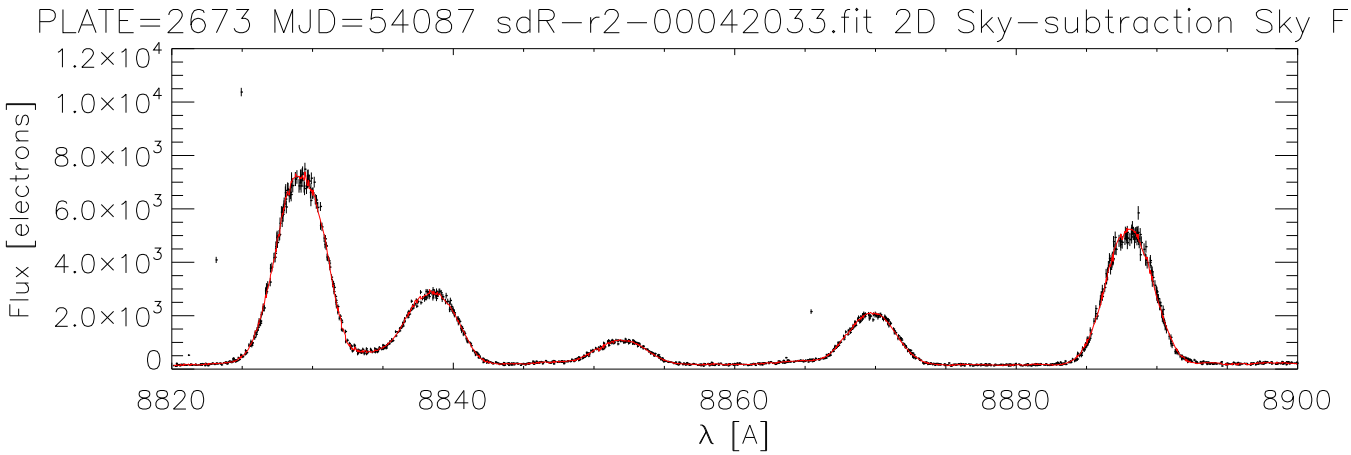

PLATE=2673 MJD=54087 sdR-r2-00042033.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

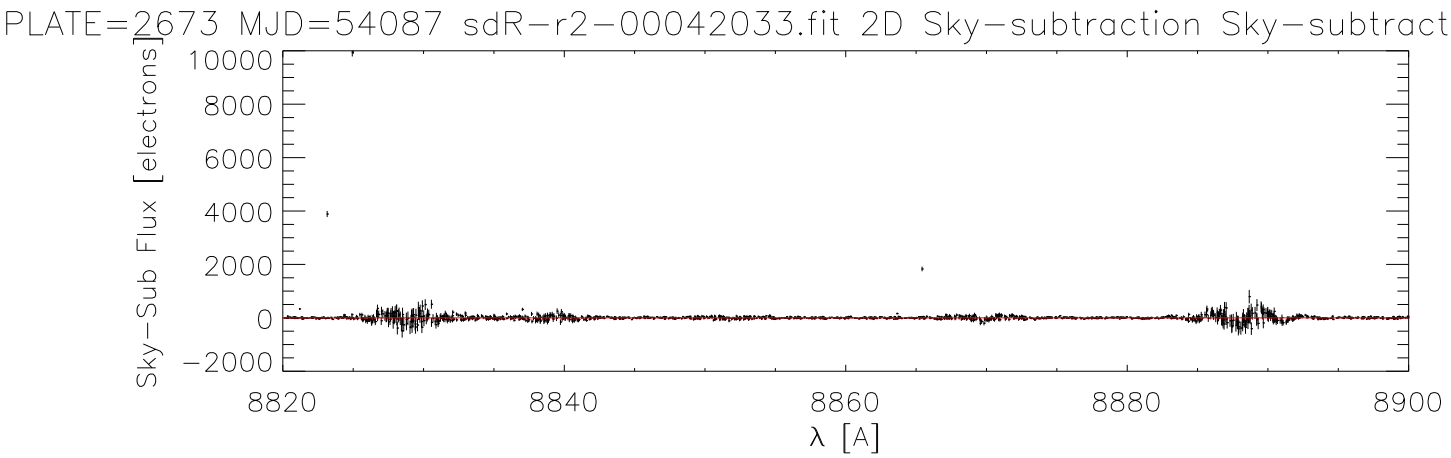

PLATE=2673 MJD=54087 sdR-r2-00042033.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
8820
8840
8860
8880
8900
λ [A]

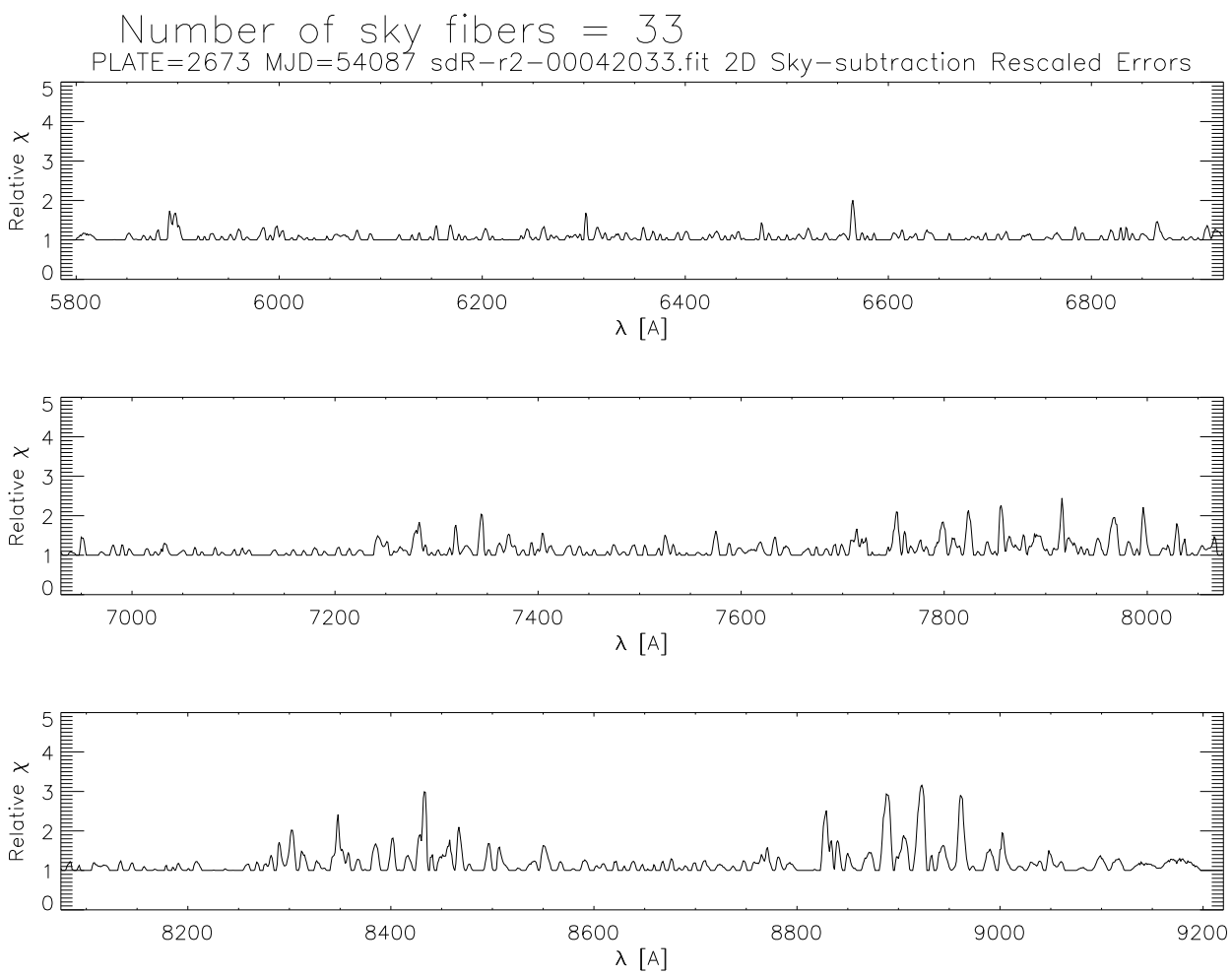

PLATE=2673 MJD=54087 sdR-r2-00042033.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
10000
8000
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

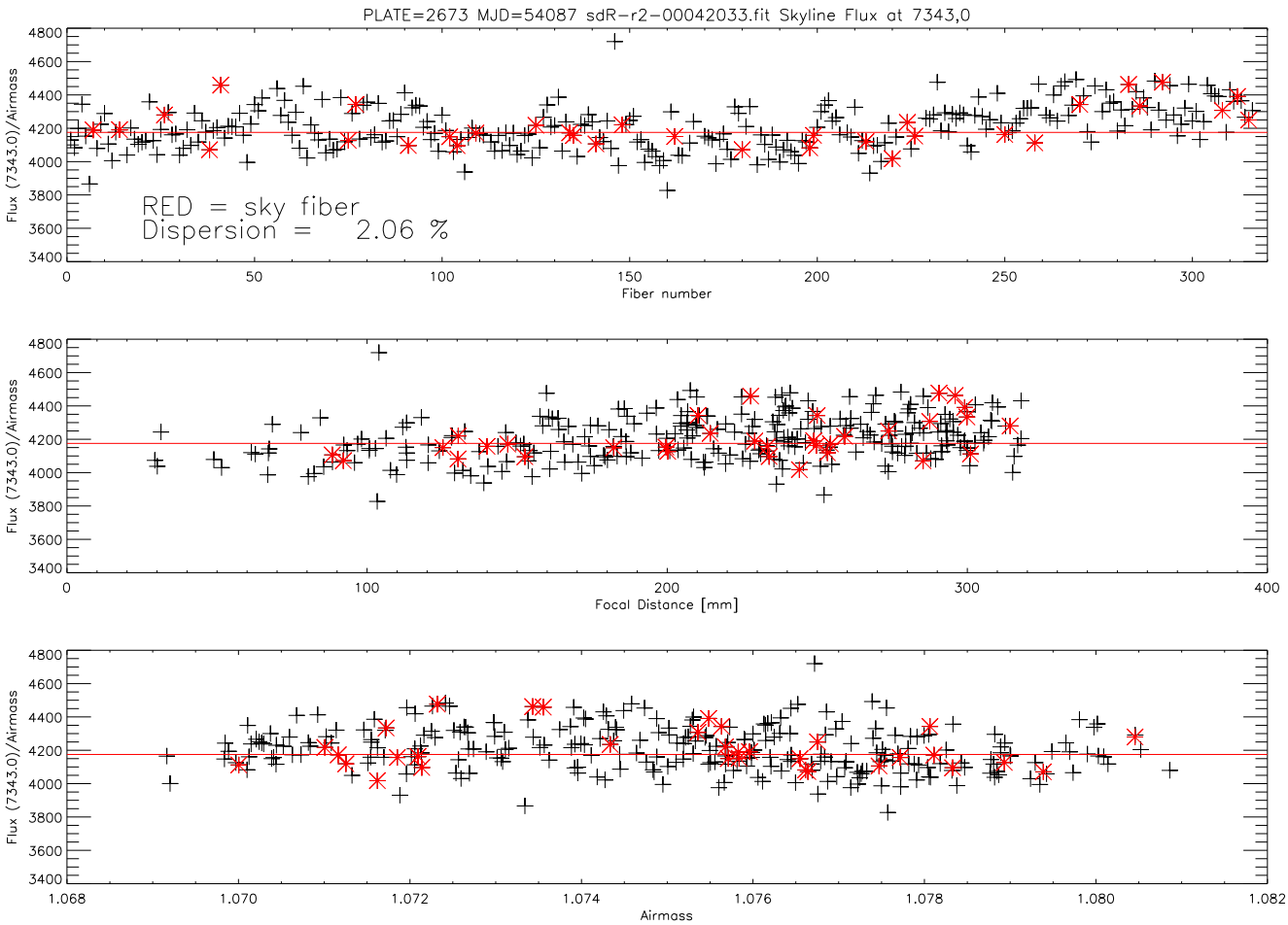

Number of sky fibers = 33
PLATE=2673 MJD=54087 sdR-r2-00042033.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

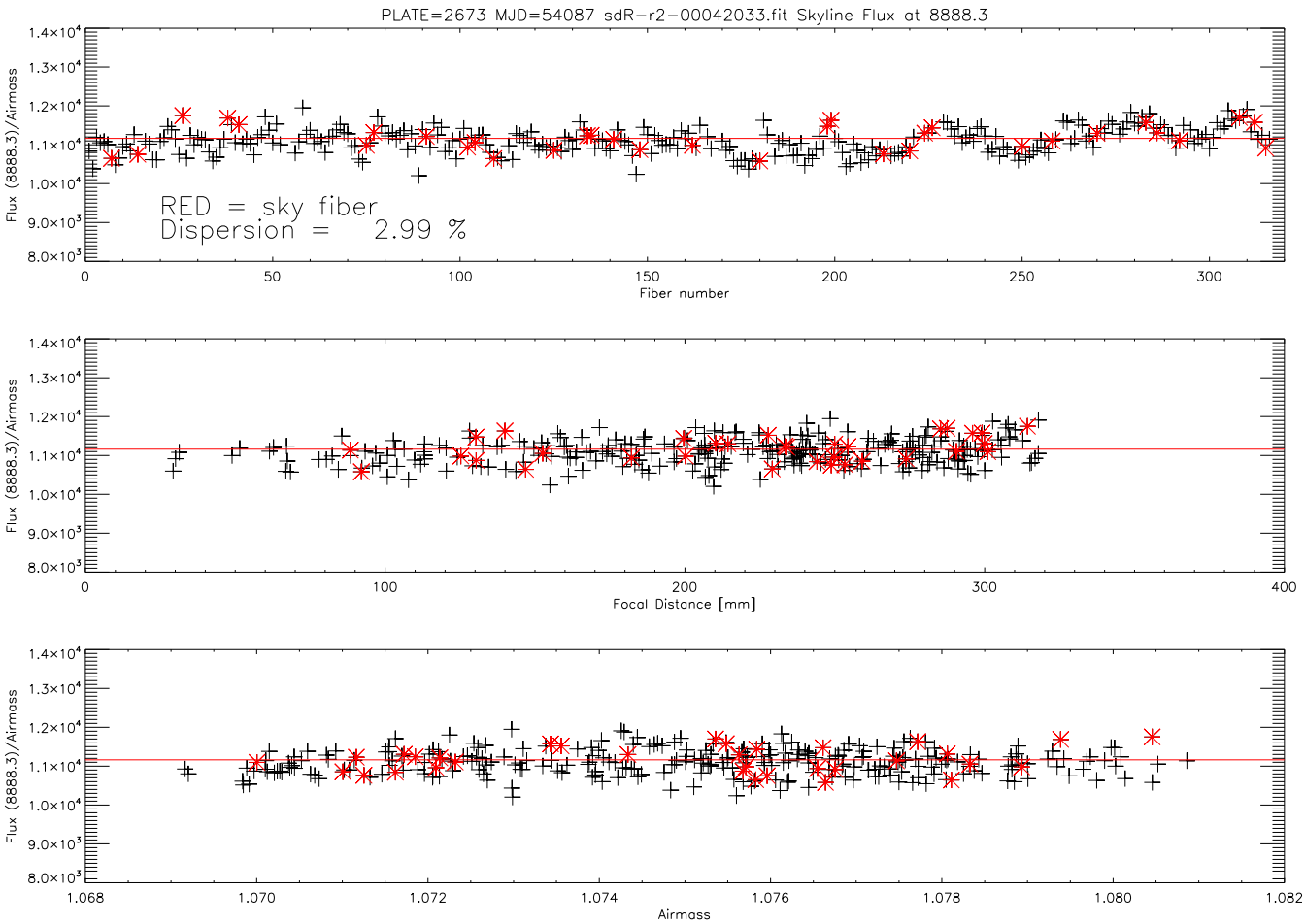

PLATE=2673 MJD=54087 sdR-r2-00042033.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number


PLATE=2673 MJD=54087 sdR-r2-00042033.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
8820
8840
8860
8880
8900
λ [A]


PLATE=2673 MJD=54087 sdR-r2-00042033.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
10000
8000
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 33
PLATE=2673 MJD=54087 sdR-r2-00042033.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5


PLATE=2673 MJD=54087 sdR-r2-00042033.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.06 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2673 MJD=54087 sdR-r2-00042033.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.99 %
Fiber number
Focal Distance [mm]
Airmass