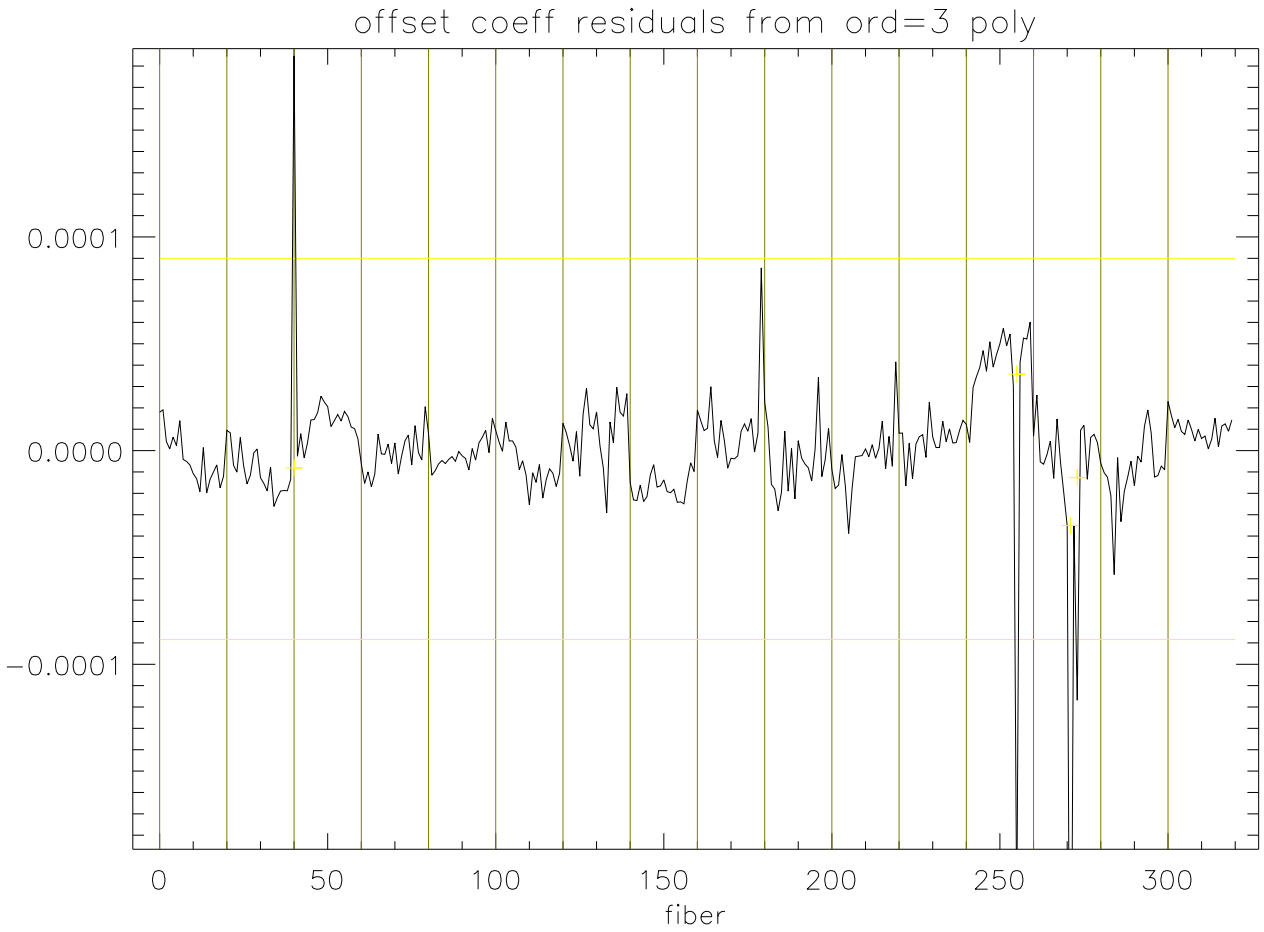
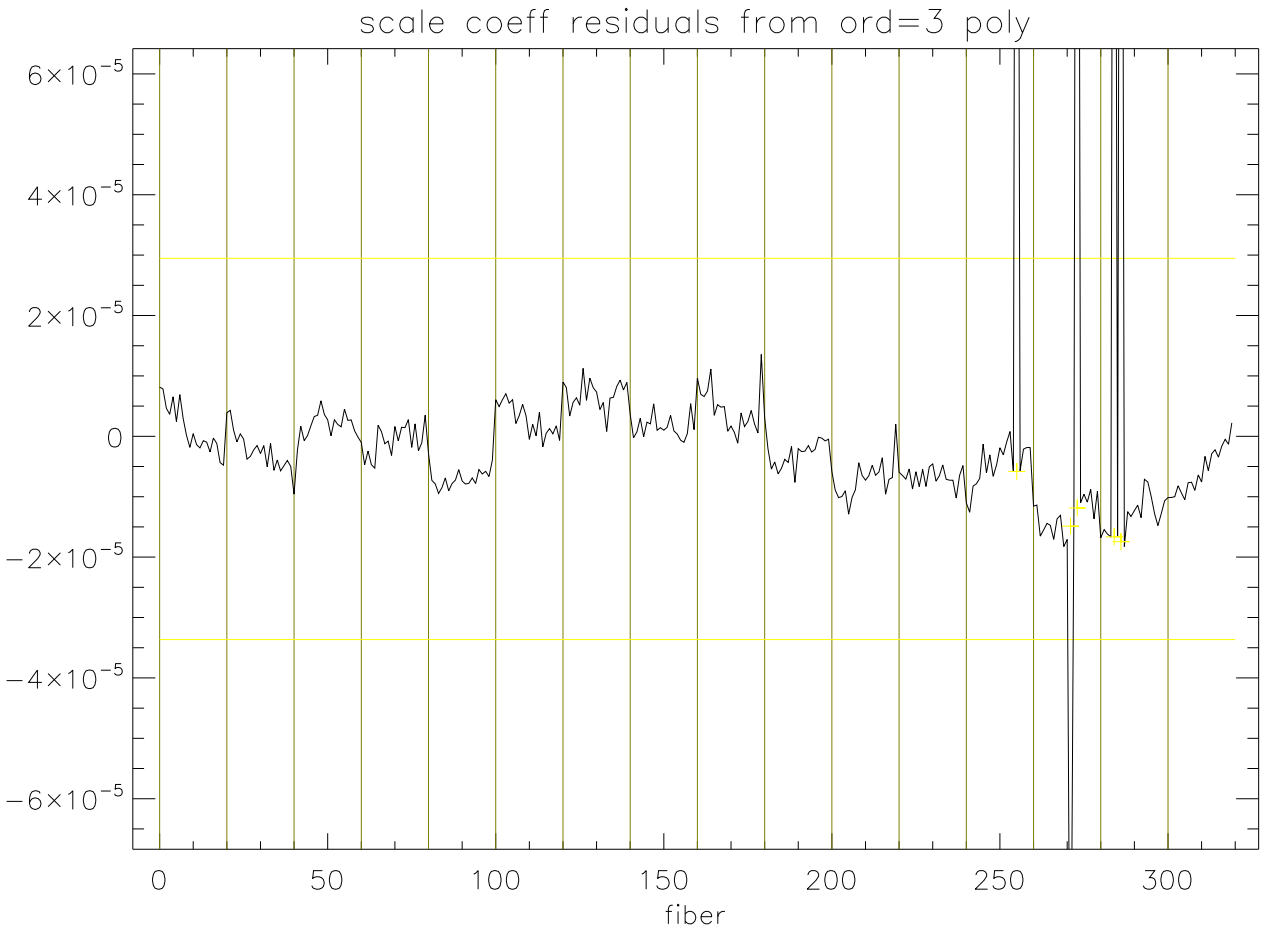
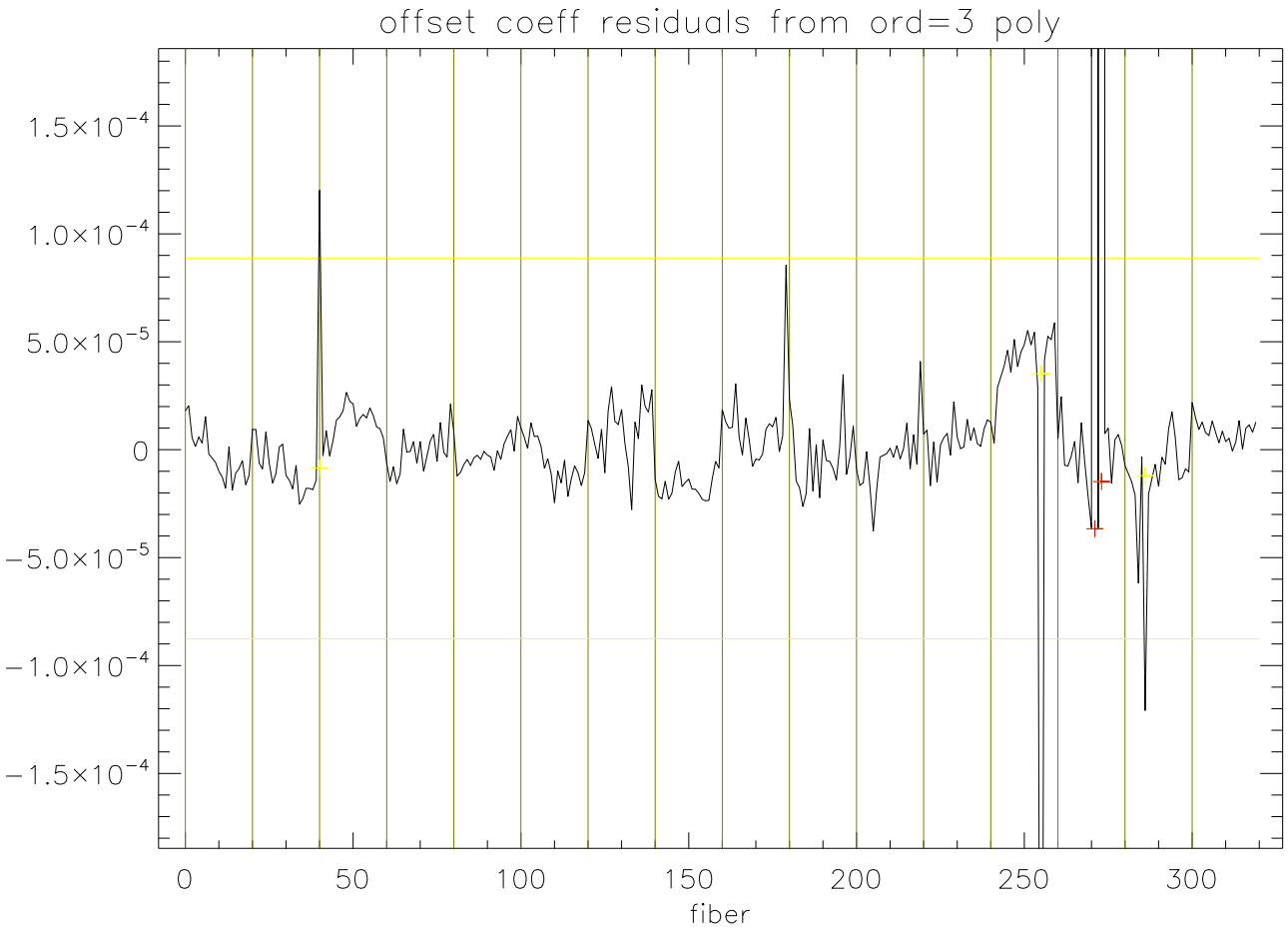
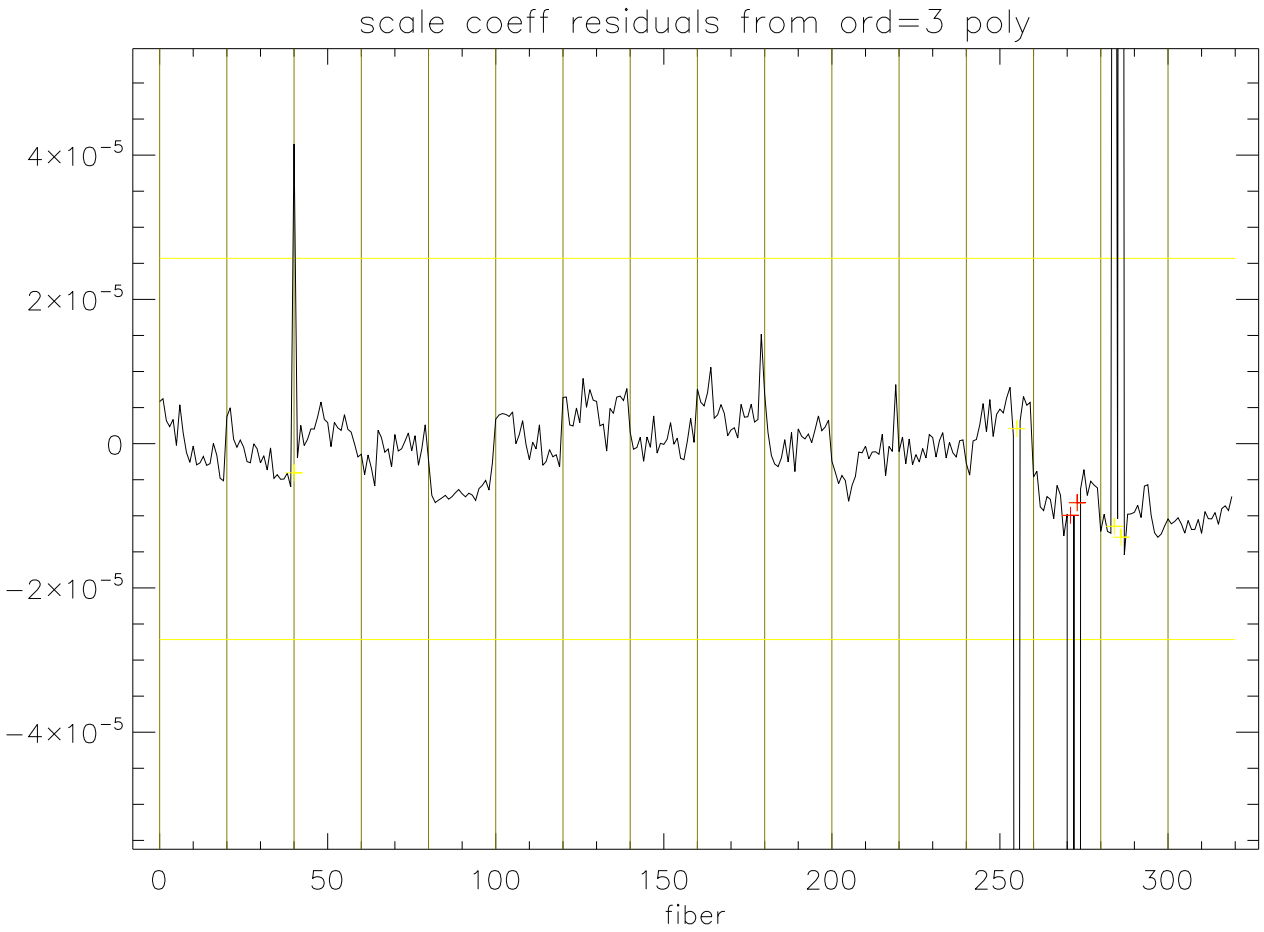
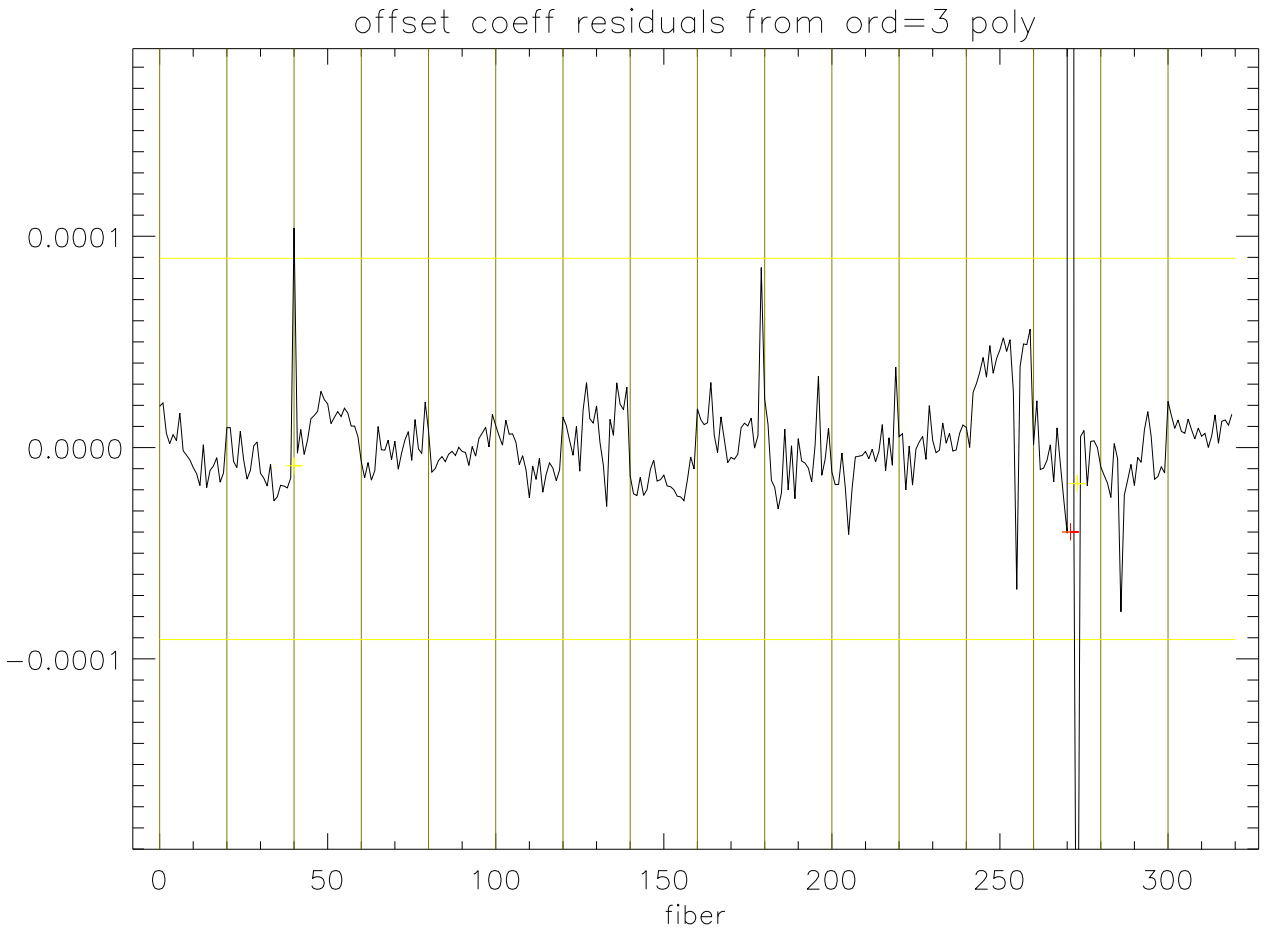
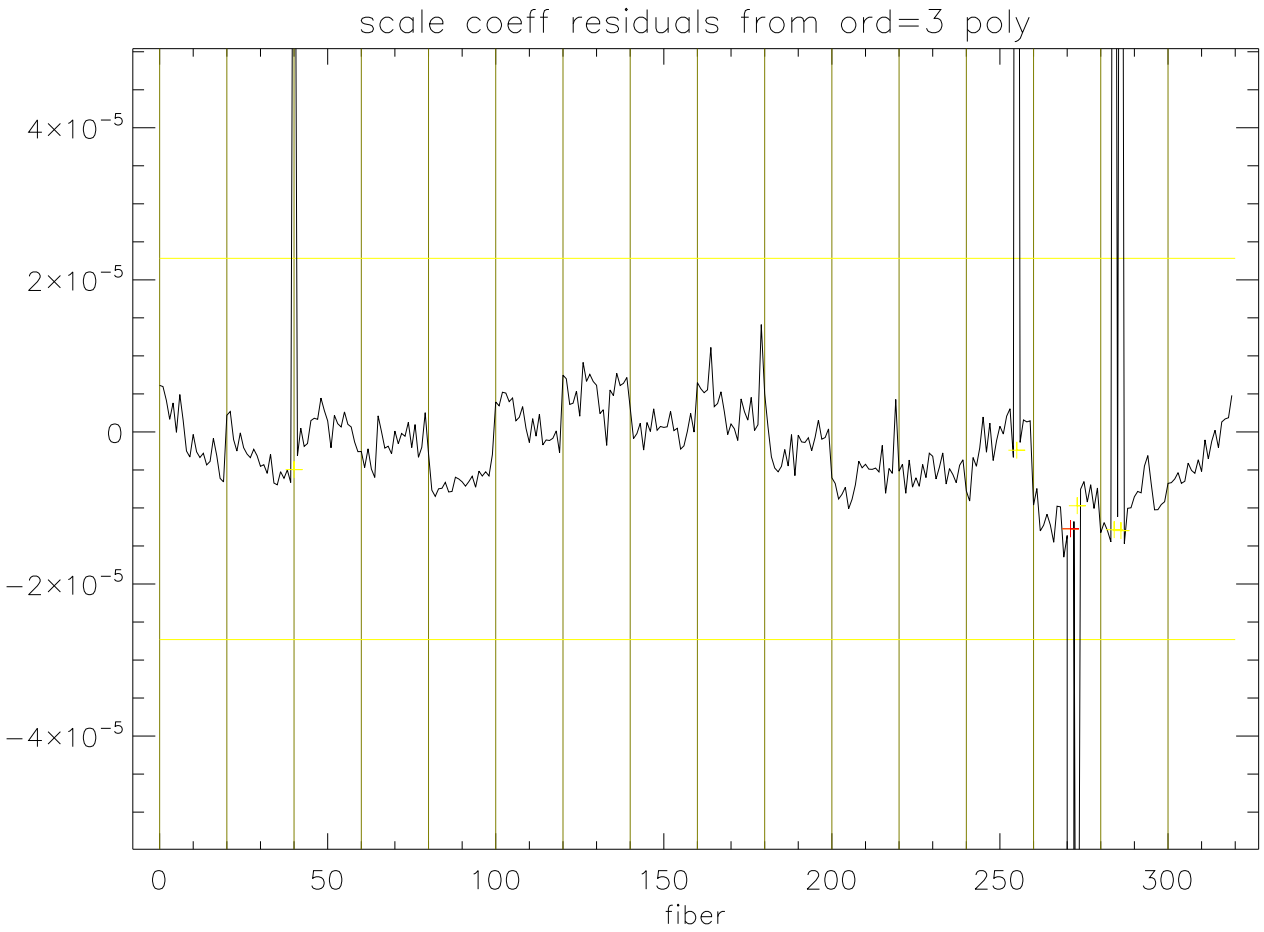

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

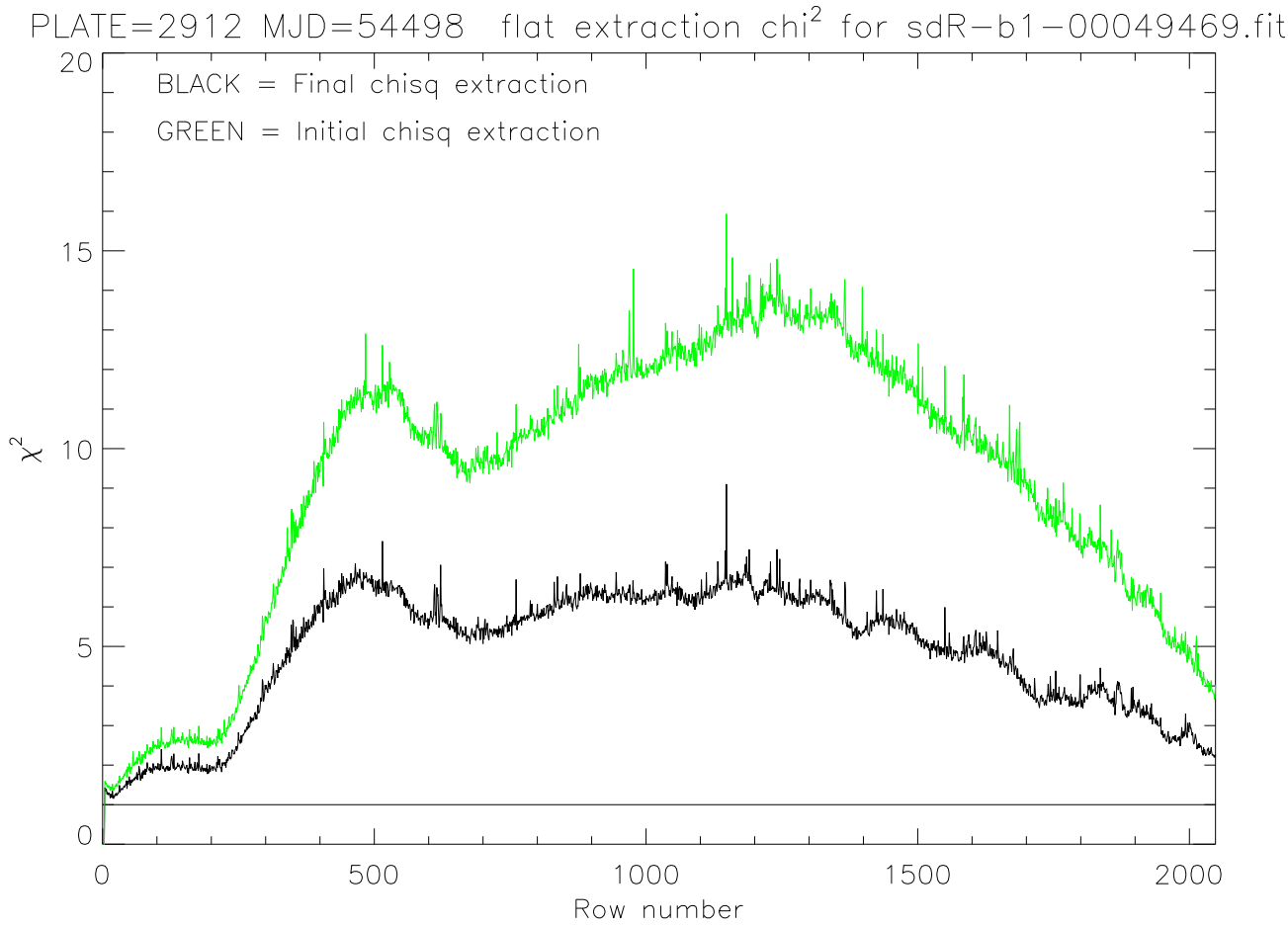

scale coeff residuals from ord=3 poly
6×10⁻⁵
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
−6×10⁻⁵
0
50
100
150
200
250
300
fiber

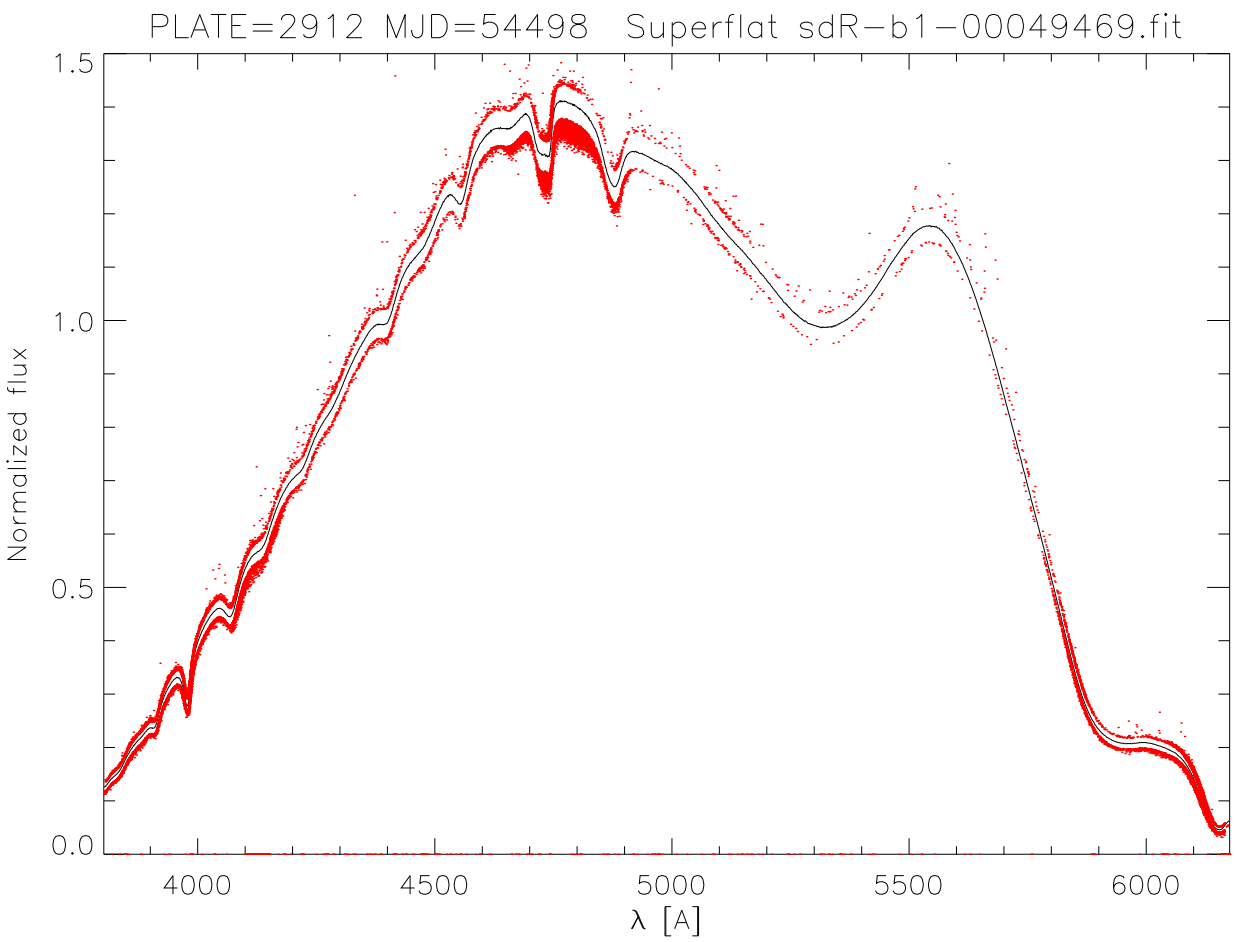

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

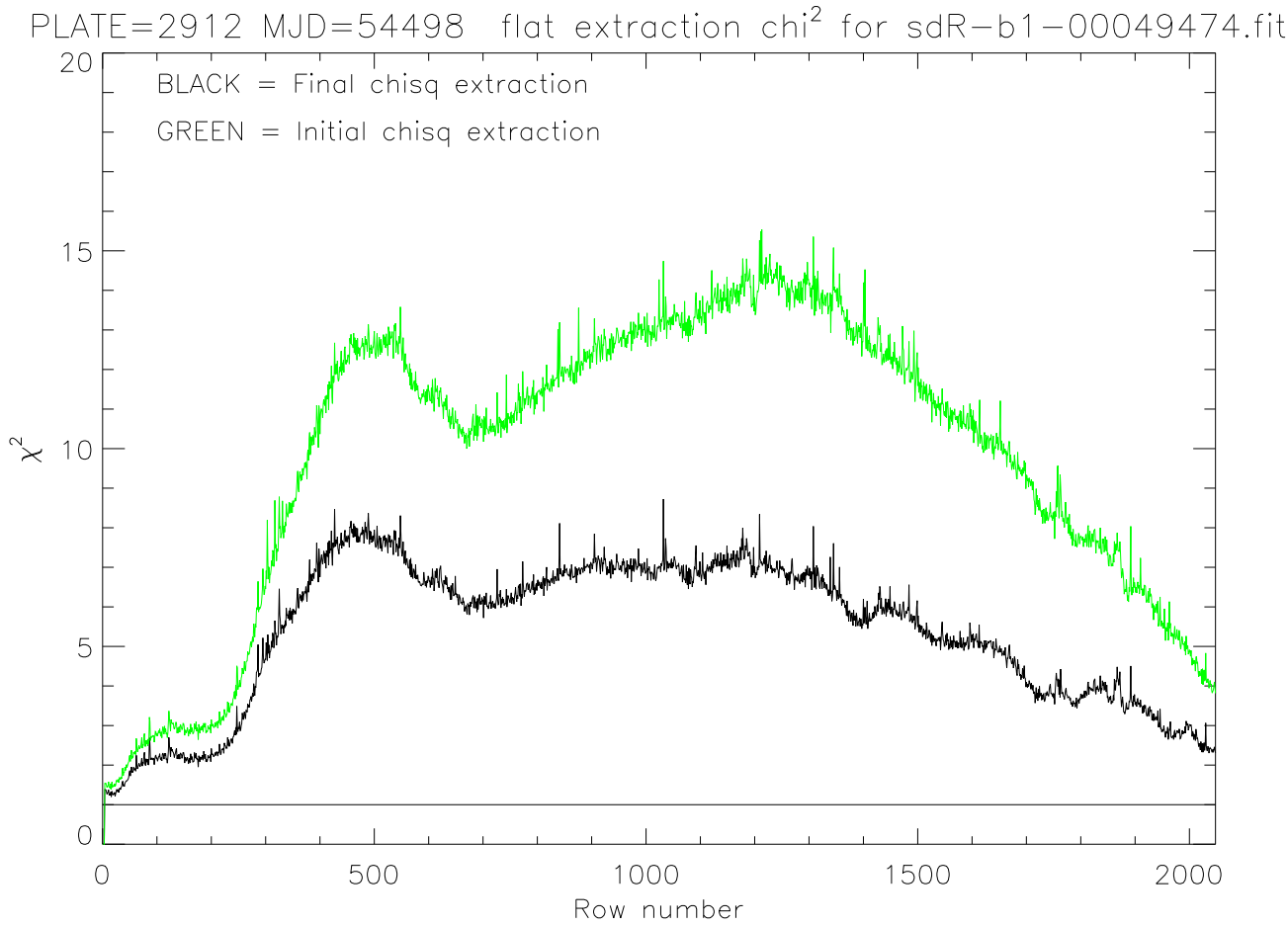

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

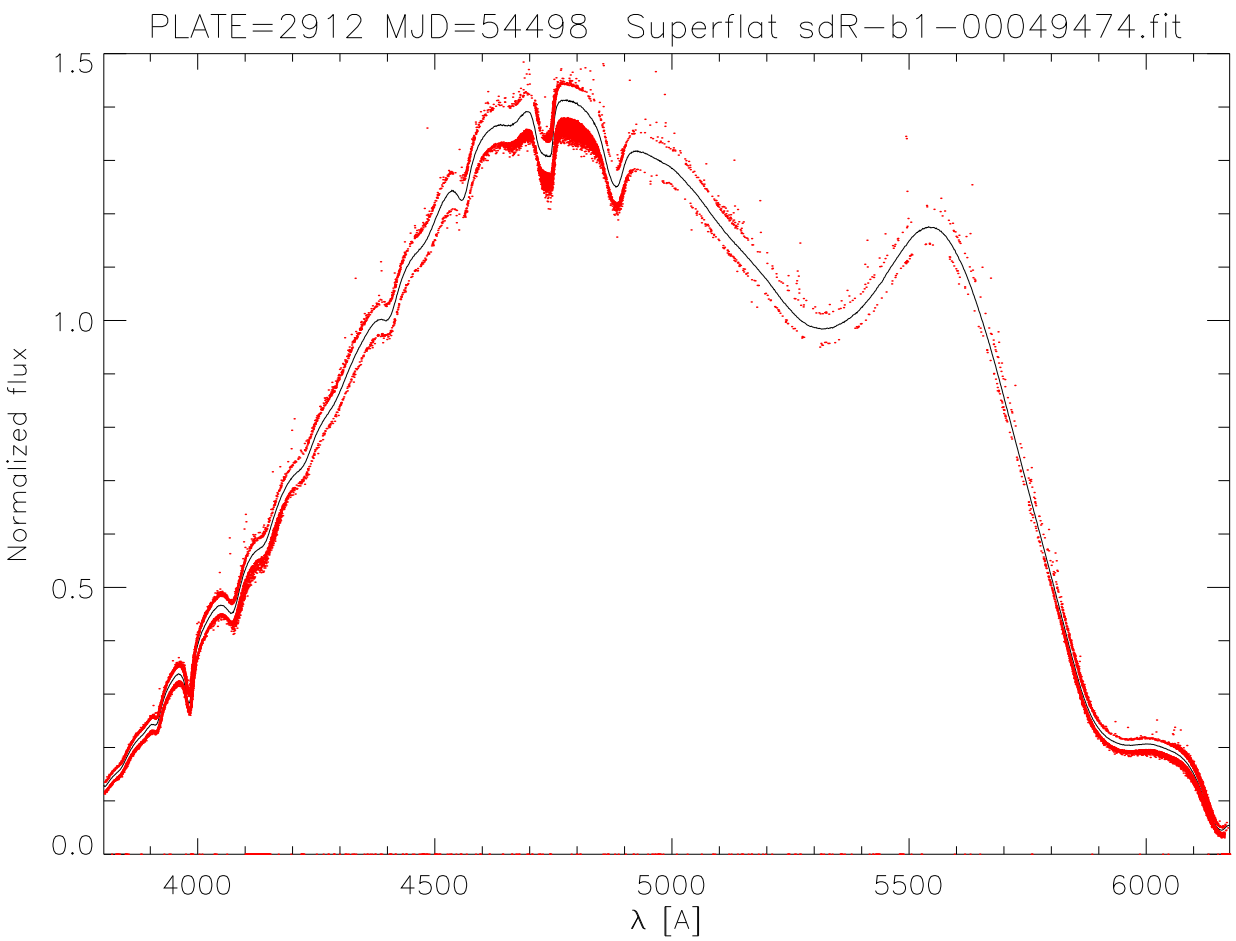

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

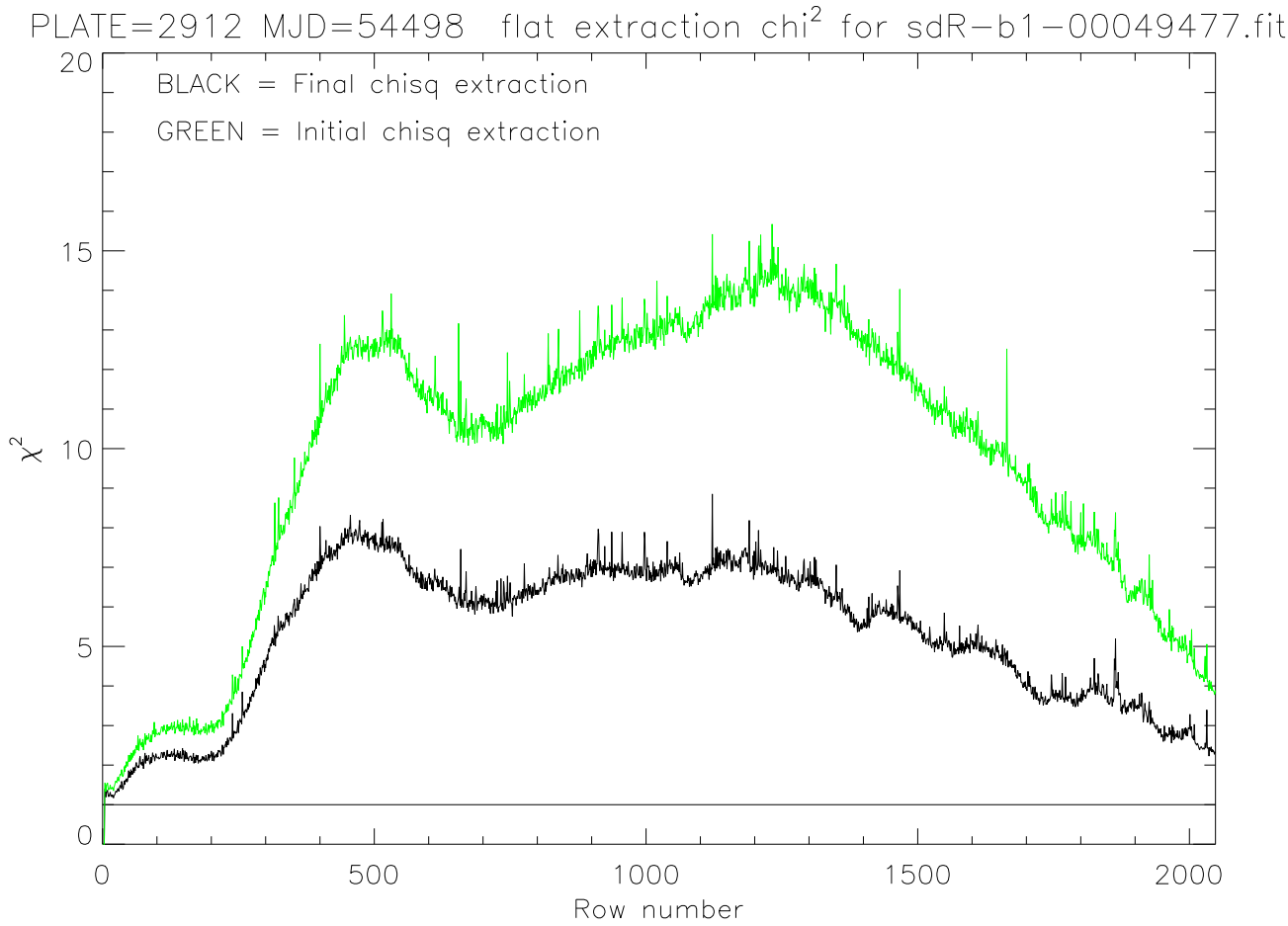

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

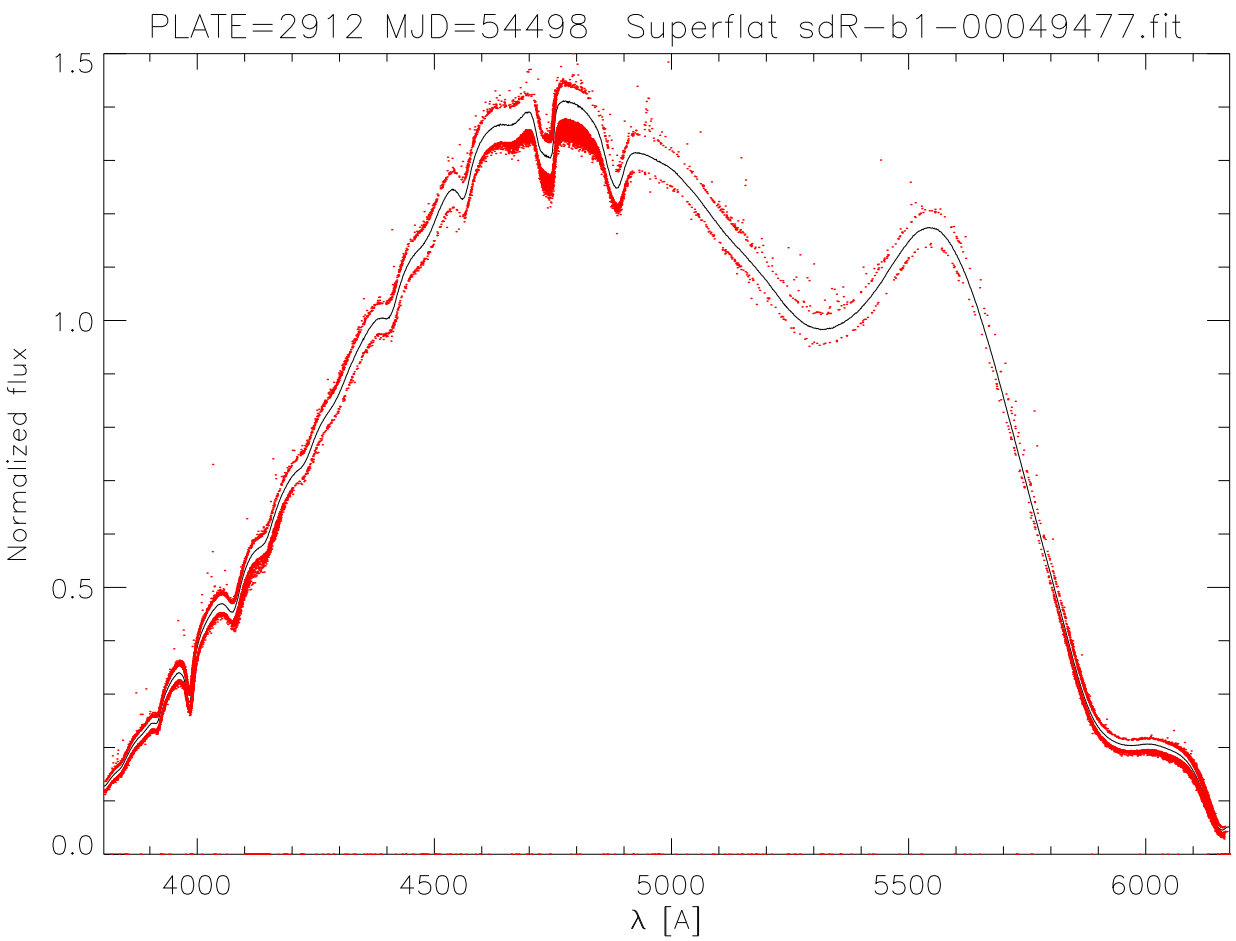

PLATE=2912 MJD=54498 flat extraction chi^2 for sdR−b1−00049469.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

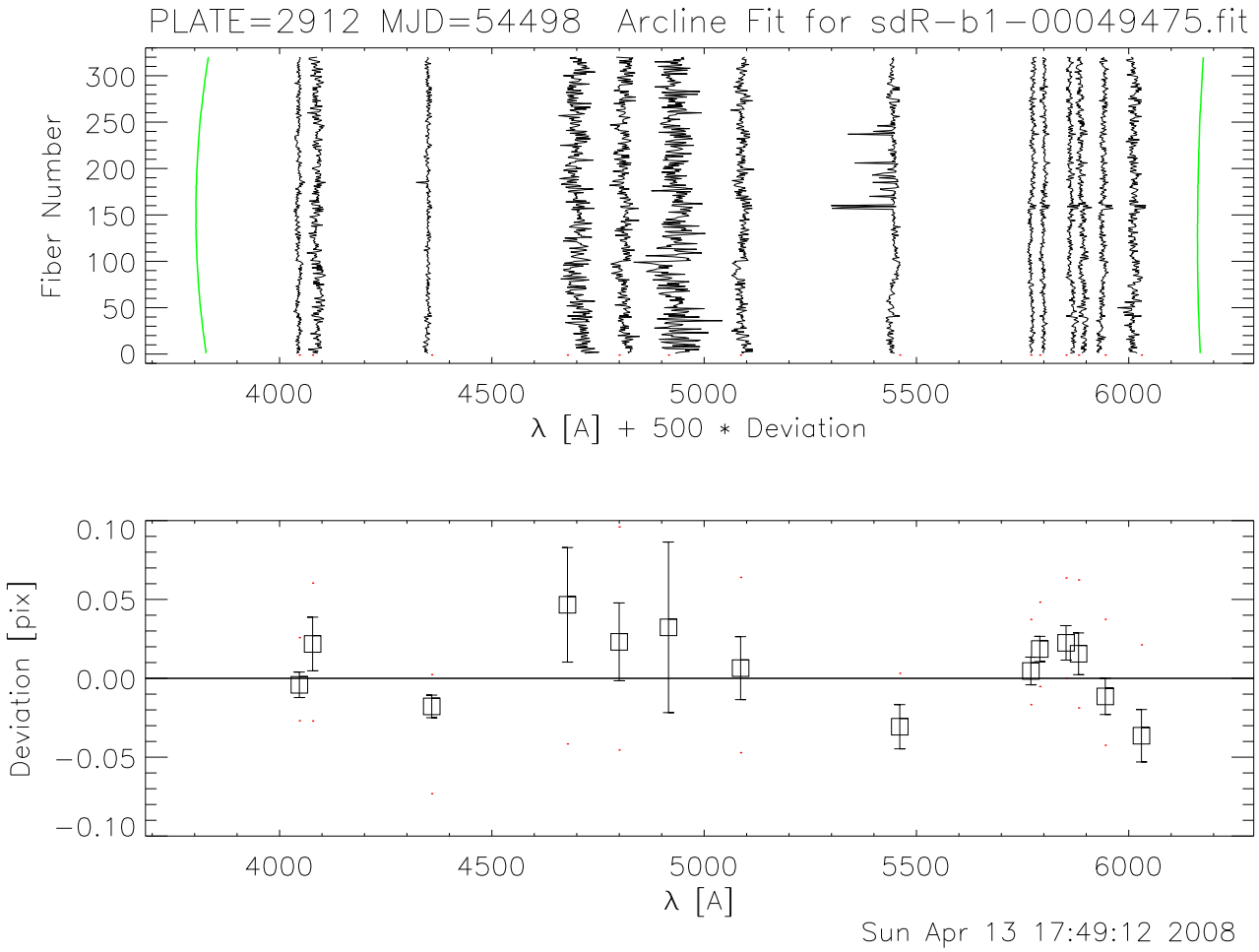

PLATE=2912 MJD=54498 Superflat sdR-b1-00049469.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

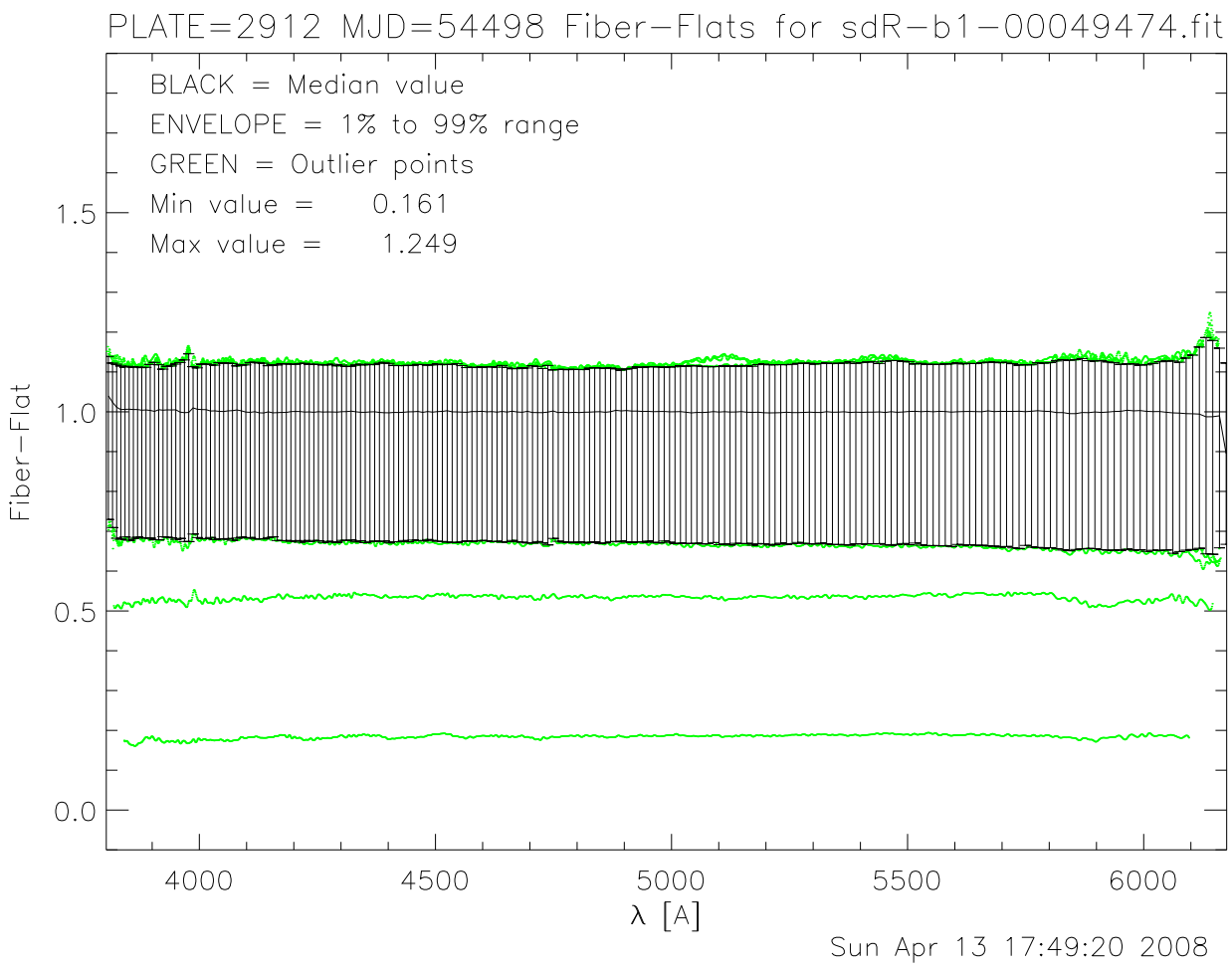

PLATE=2912 MJD=54498 flat extraction chi^2 for sdR−b1−00049474.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

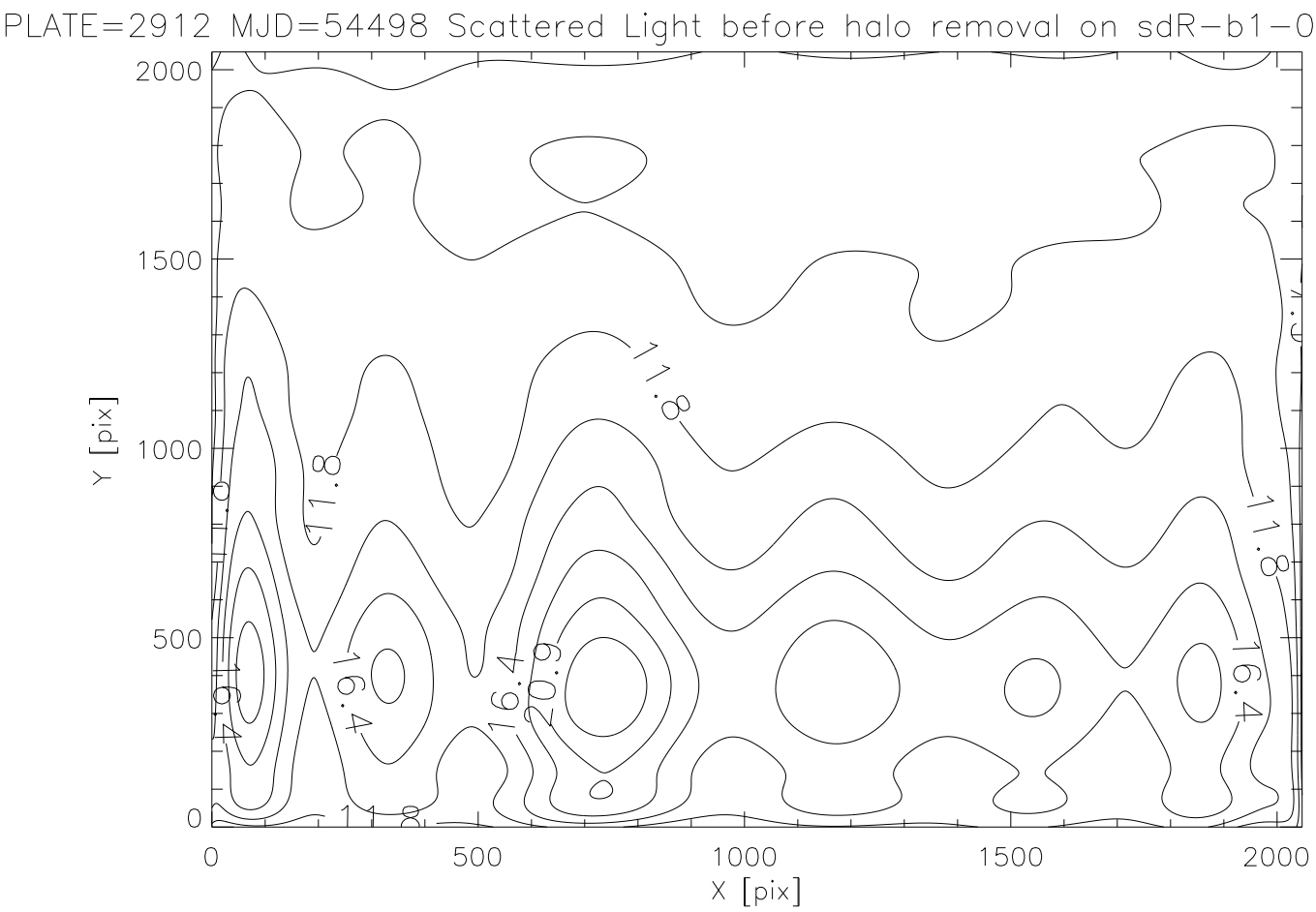

PLATE=2912 MJD=54498 Superflat sdR-b1-00049474.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

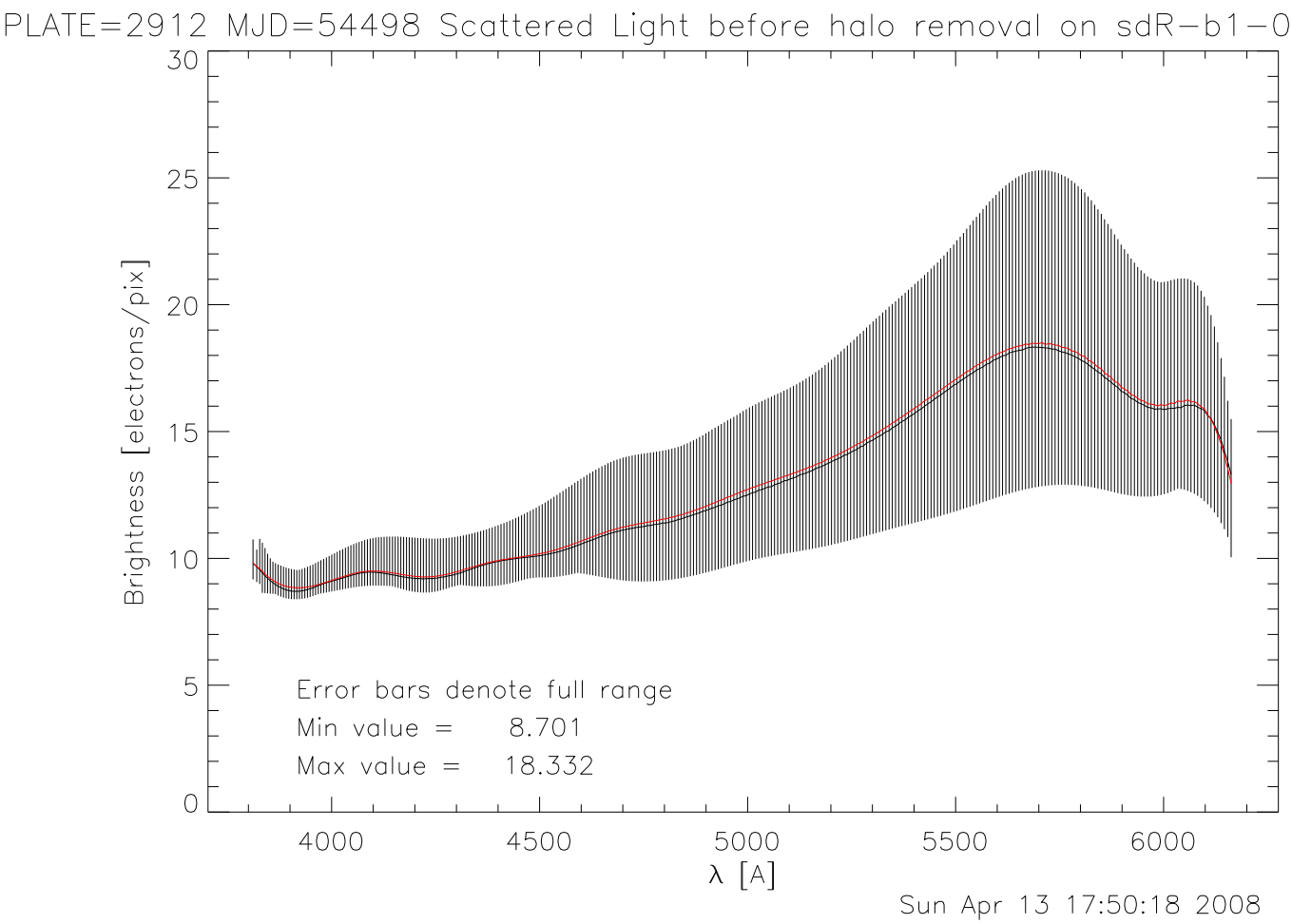

PLATE=2912 MJD=54498 flat extraction chi^2 for sdR−b1−00049477.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

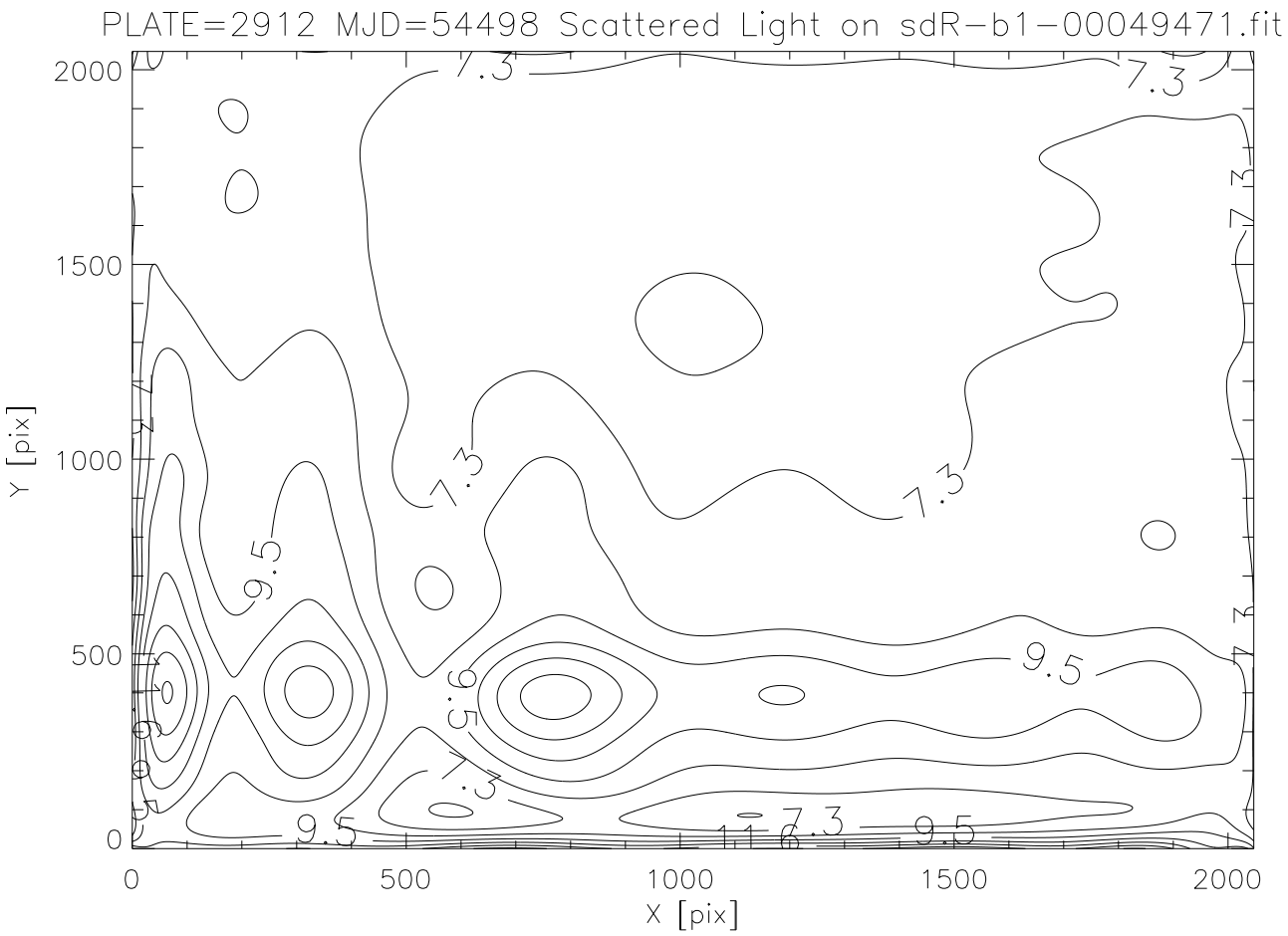

PLATE=2912 MJD=54498 Superflat sdR-b1-00049477.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

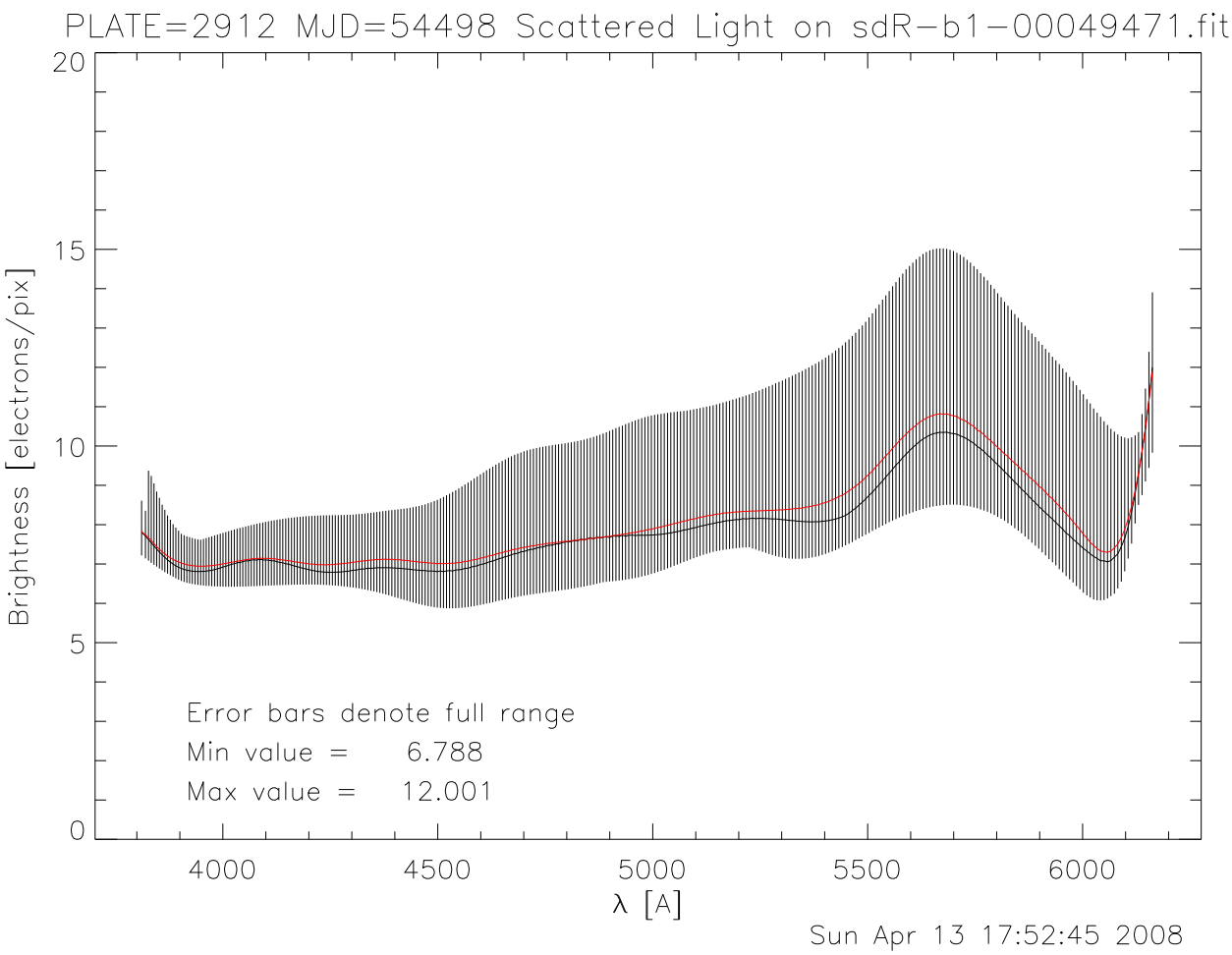

PLATE=2912 MJD=54498 Arcline Fit for sdR-b1-00049475.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 17:49:12 2008

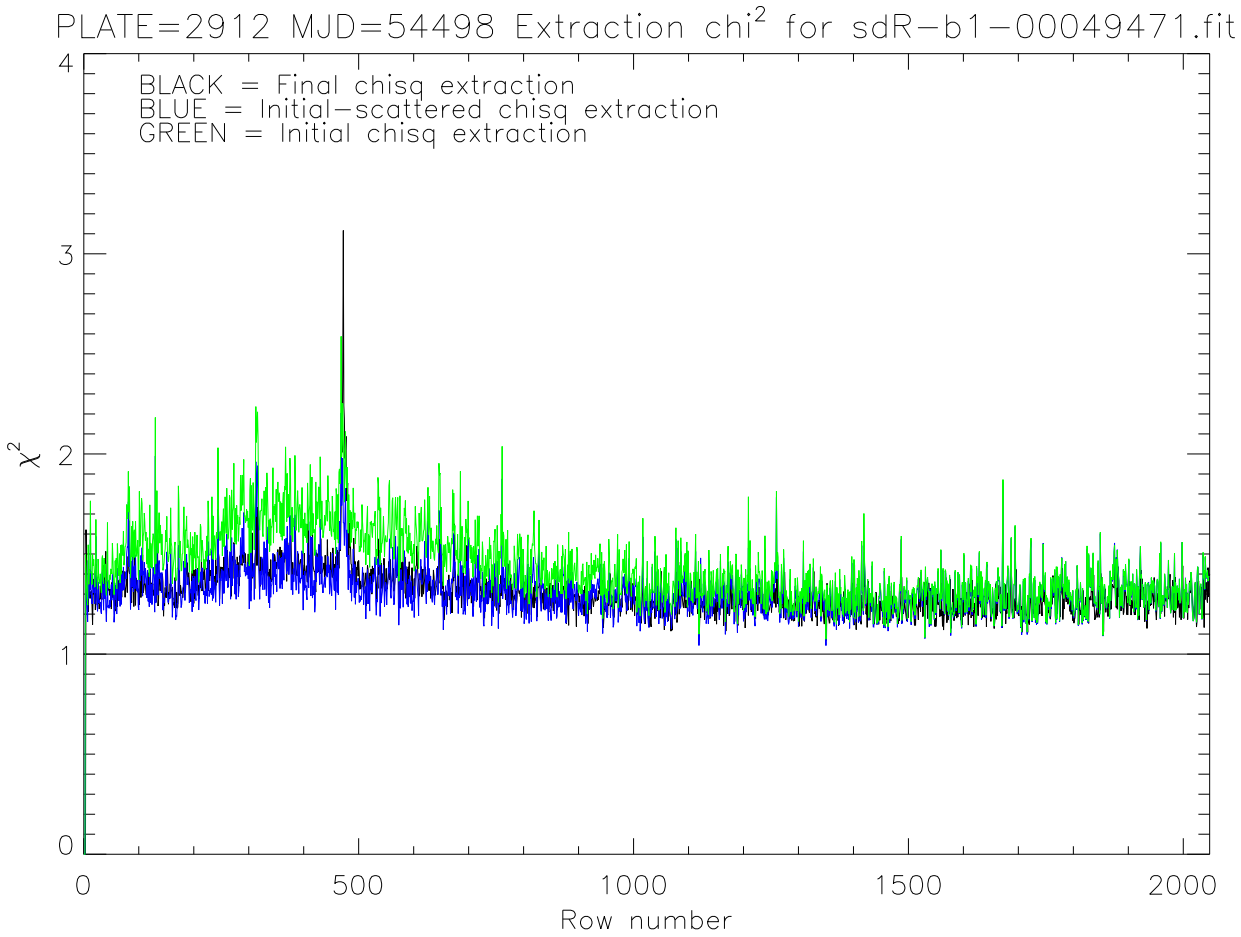

PLATE=2912 MJD=54498 Fiber-Flats for sdR-b1-00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.161
Max value = 1.249
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 17:49:20 2008

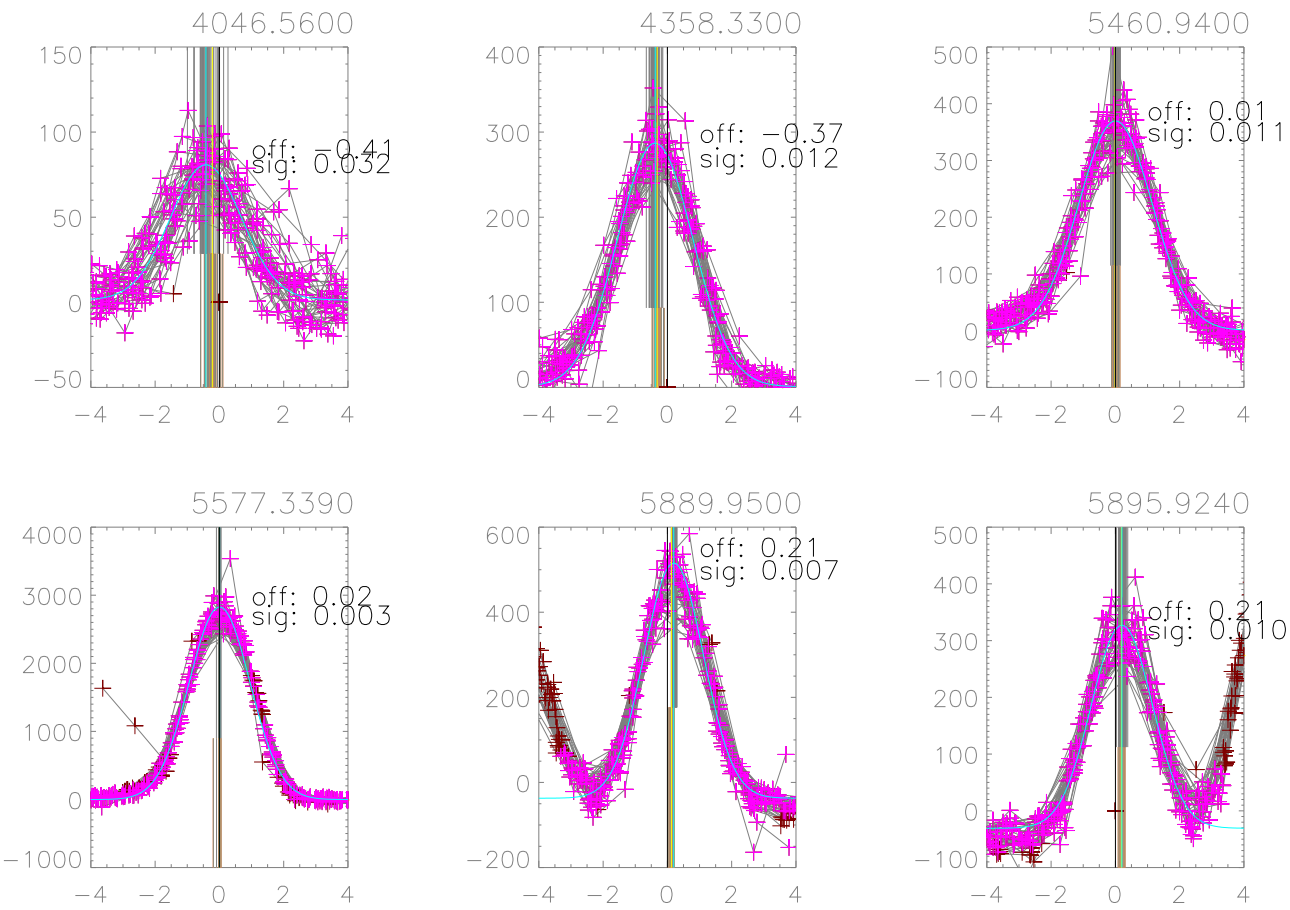

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR−b1−00049471.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
11.8
16.4
20.9

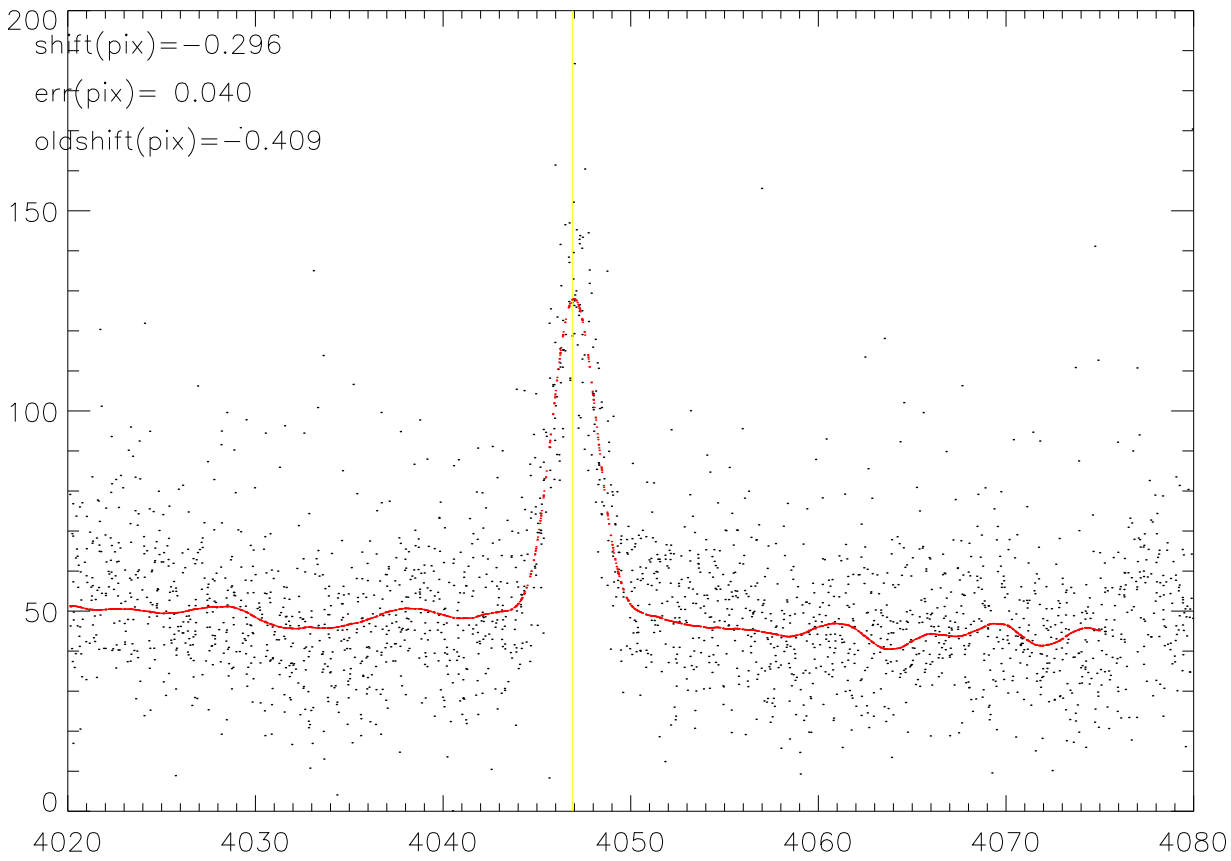

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-b1-00049471.f
Brightness [electrons/pix]
30
25
20
15
10
5
0
Error bars denote full range
Min value = 8.701
Max value = 18.332
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 17:50:18 2008

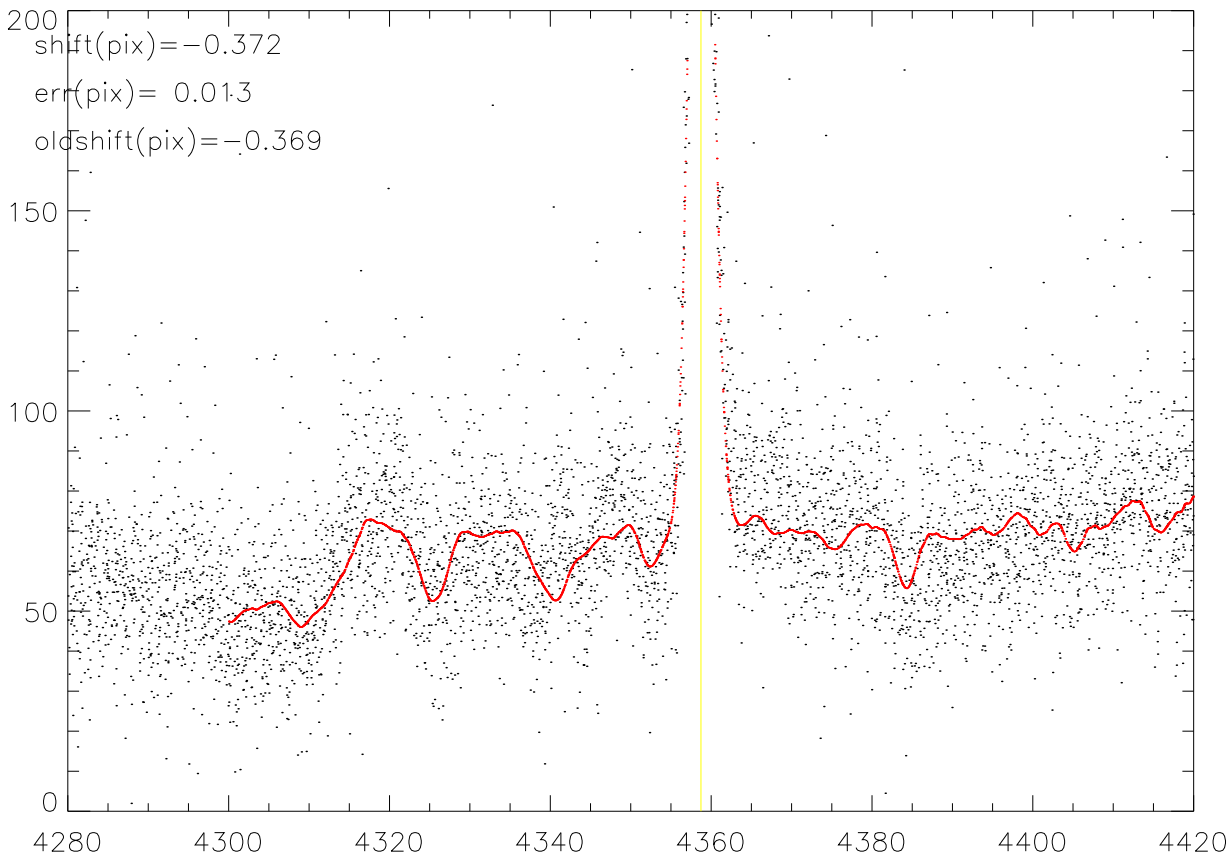

PLATE=2912 MJD=54498 Scattered Light on sdR-b1-00049471.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.3
9.5
11.6

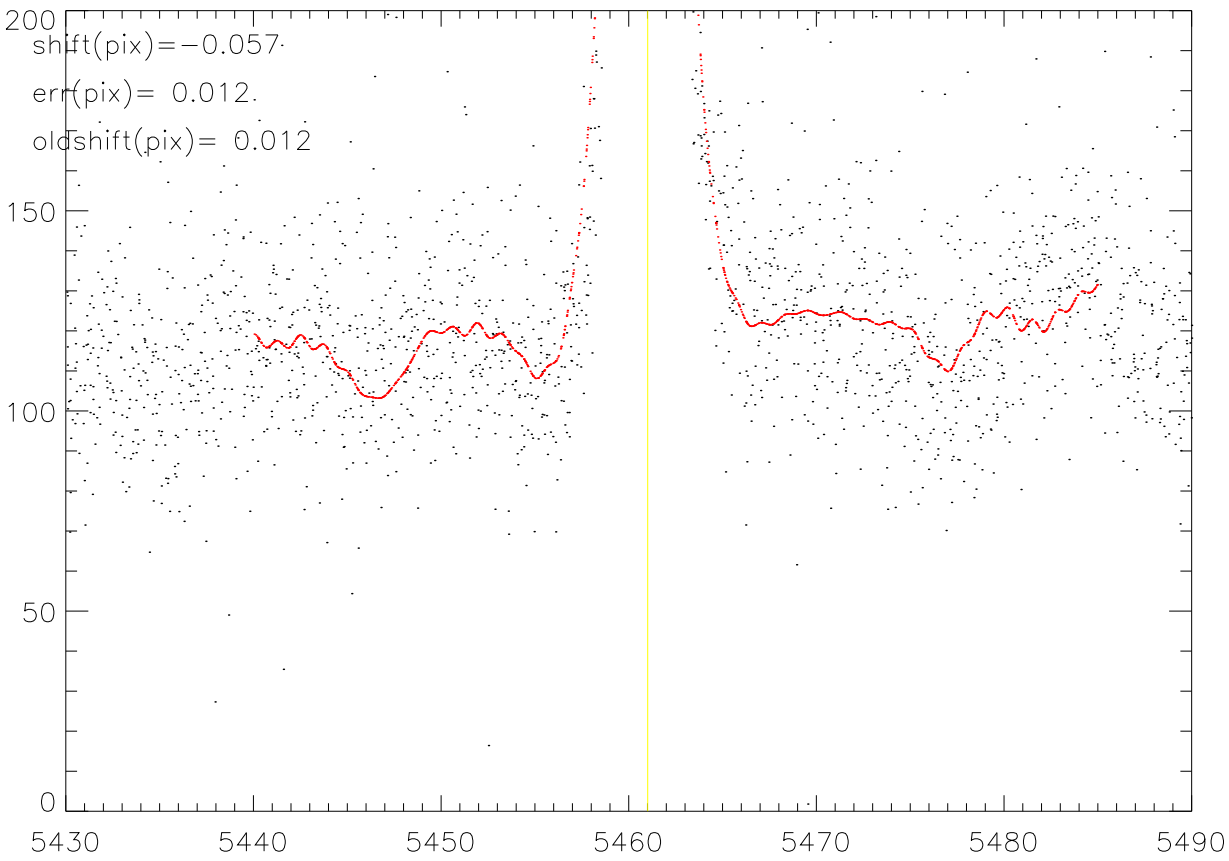

PLATE=2912 MJD=54498 Scattered Light on sdR-b1-00049471.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.788
Max value = 12.001
Sun Apr 13 17:52:45 2008

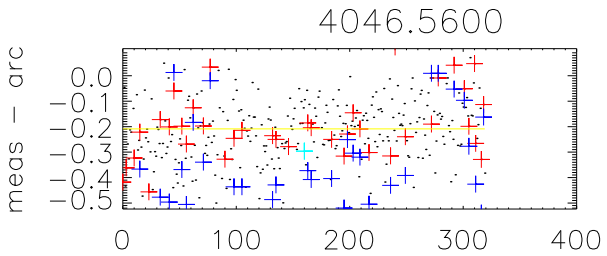

PLATE=2912 MJD=54498 Extraction chi^2 for sdR-b1-00049471.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

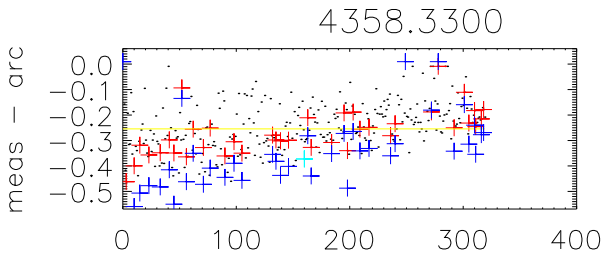

4046.5600
off: −0.41
sig: 0.032
4358.3300
off: −0.37
sig: 0.012
5460.9400
off: 0.01
sig: 0.011
5577.3390
off: 0.02
sig: 0.003
5889.9500
off: 0.21
sig: 0.007
5895.9240
off: 0.21
sig: 0.010

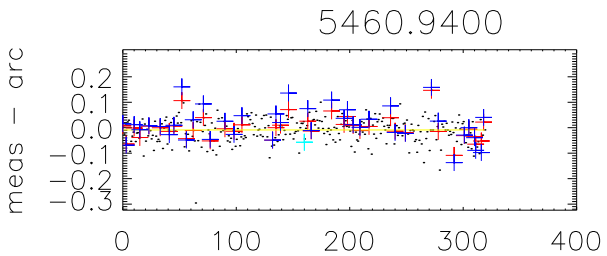

shift(pix)=−0.296
err(pix)= 0.040
oldshift(pix)=−0.409
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

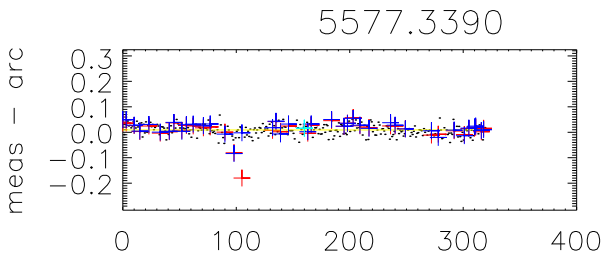

shift(pix)=−0.372
err(pix)= 0.013
oldshift(pix)=−0.369
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

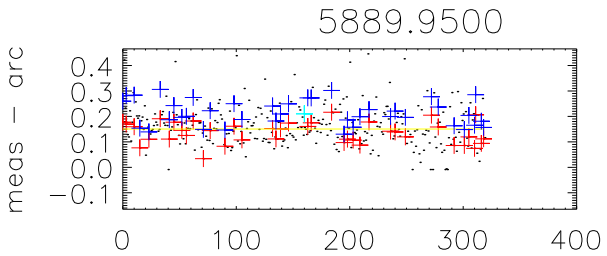

shift(pix)=−0.057
err(pix)= 0.012
oldshift(pix)= 0.012
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

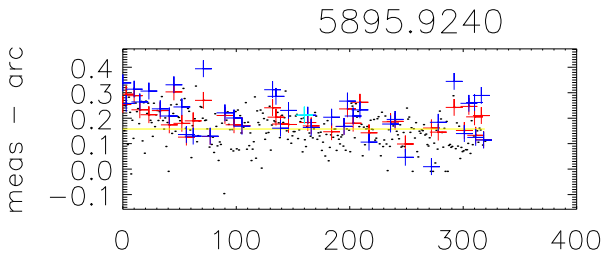

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

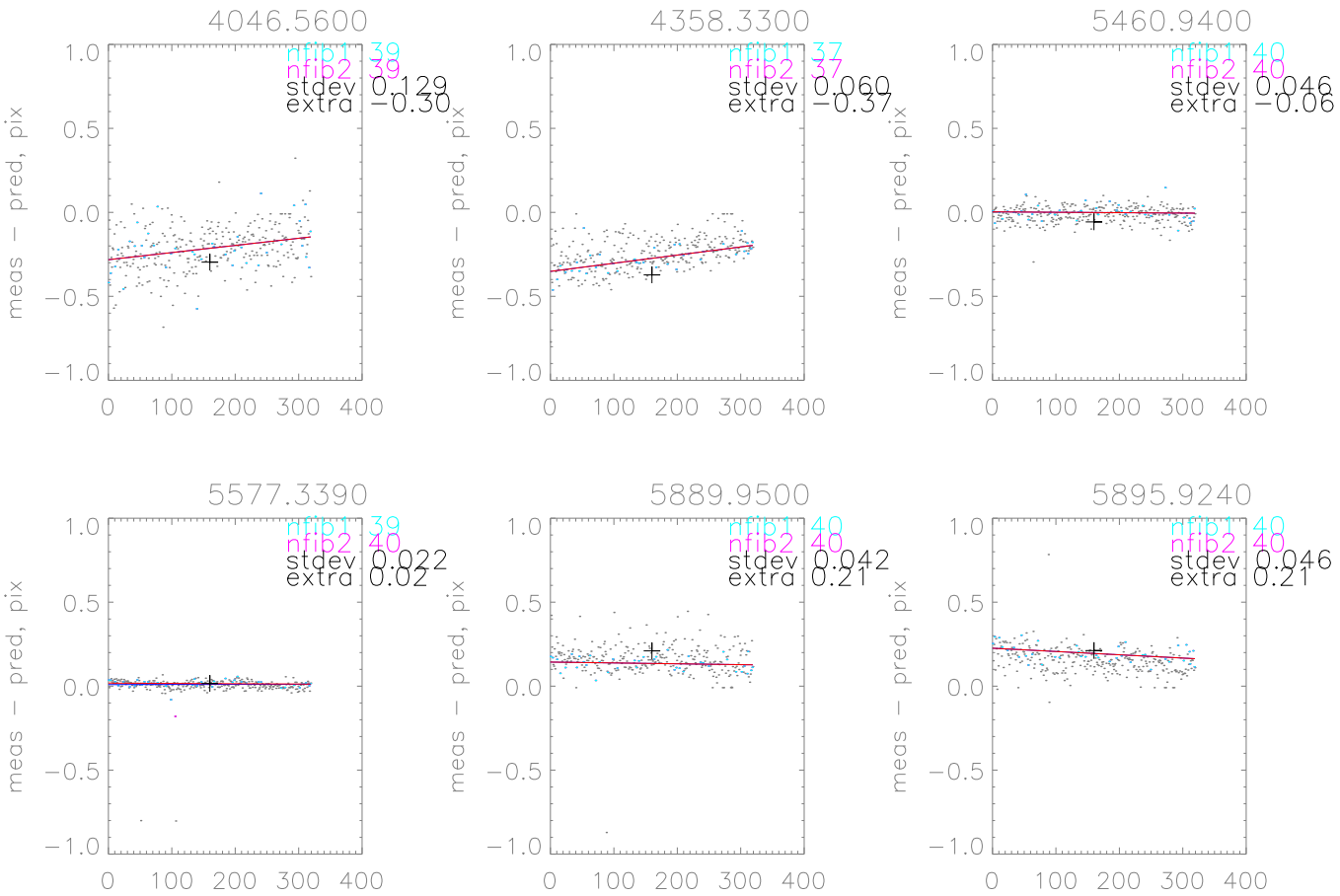

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

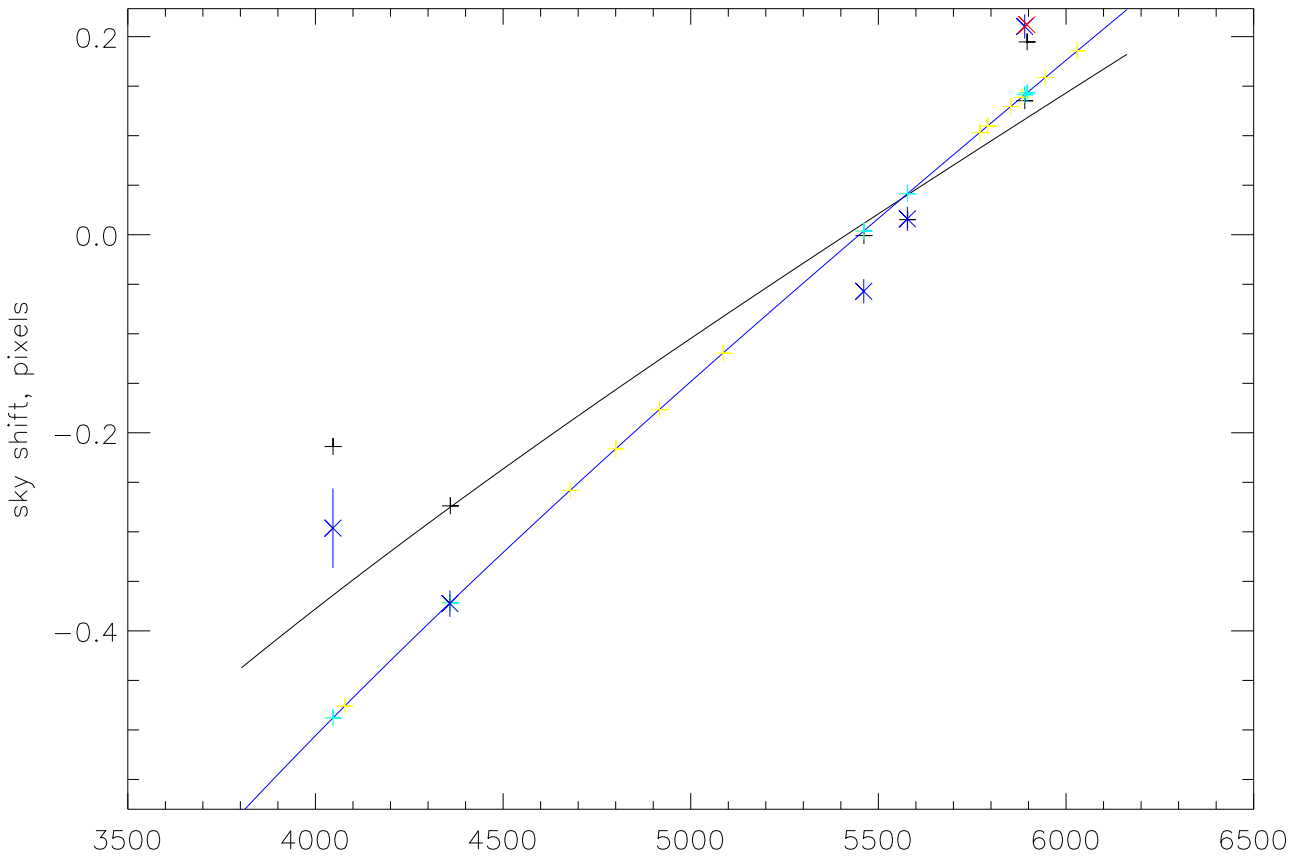

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

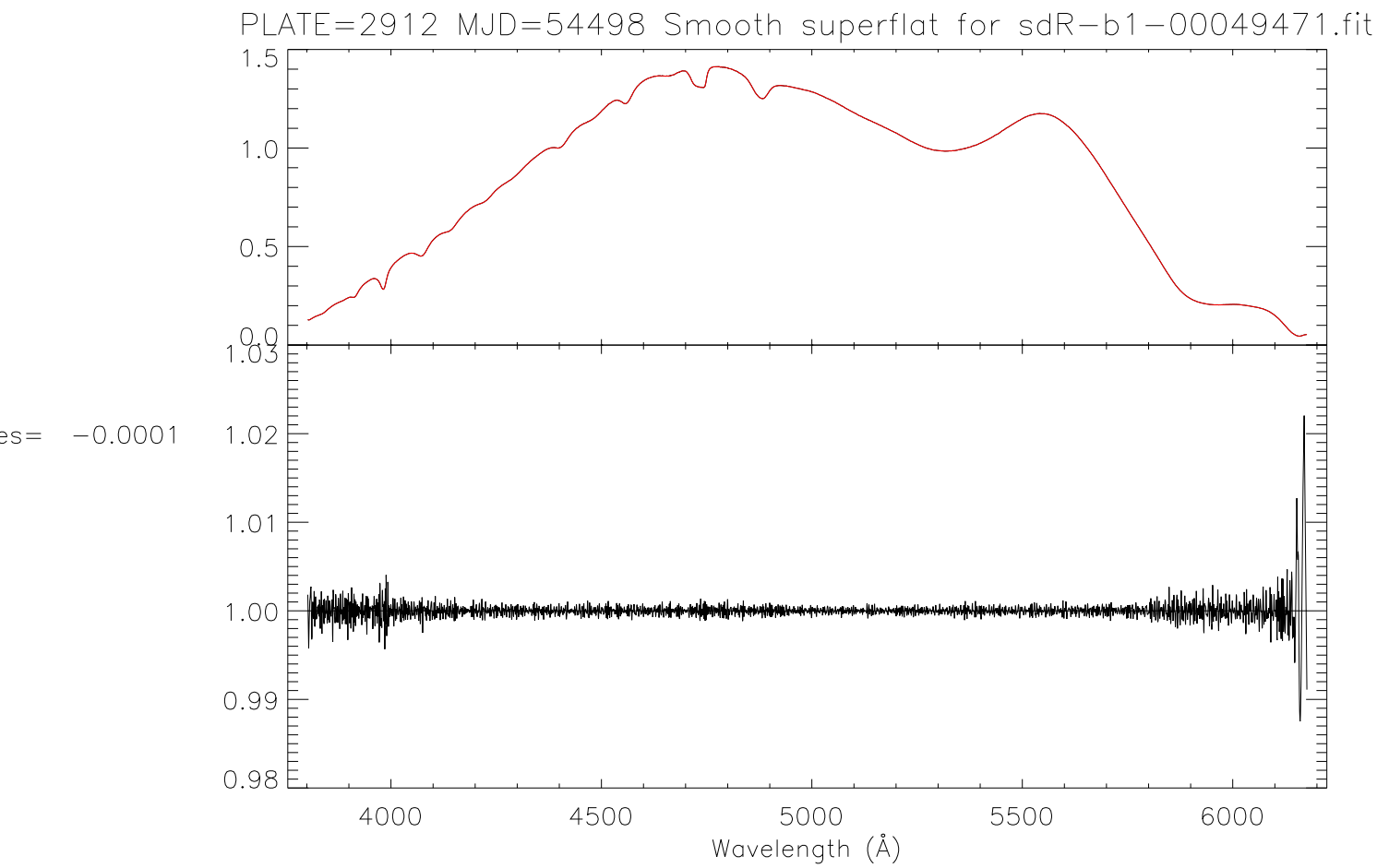

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

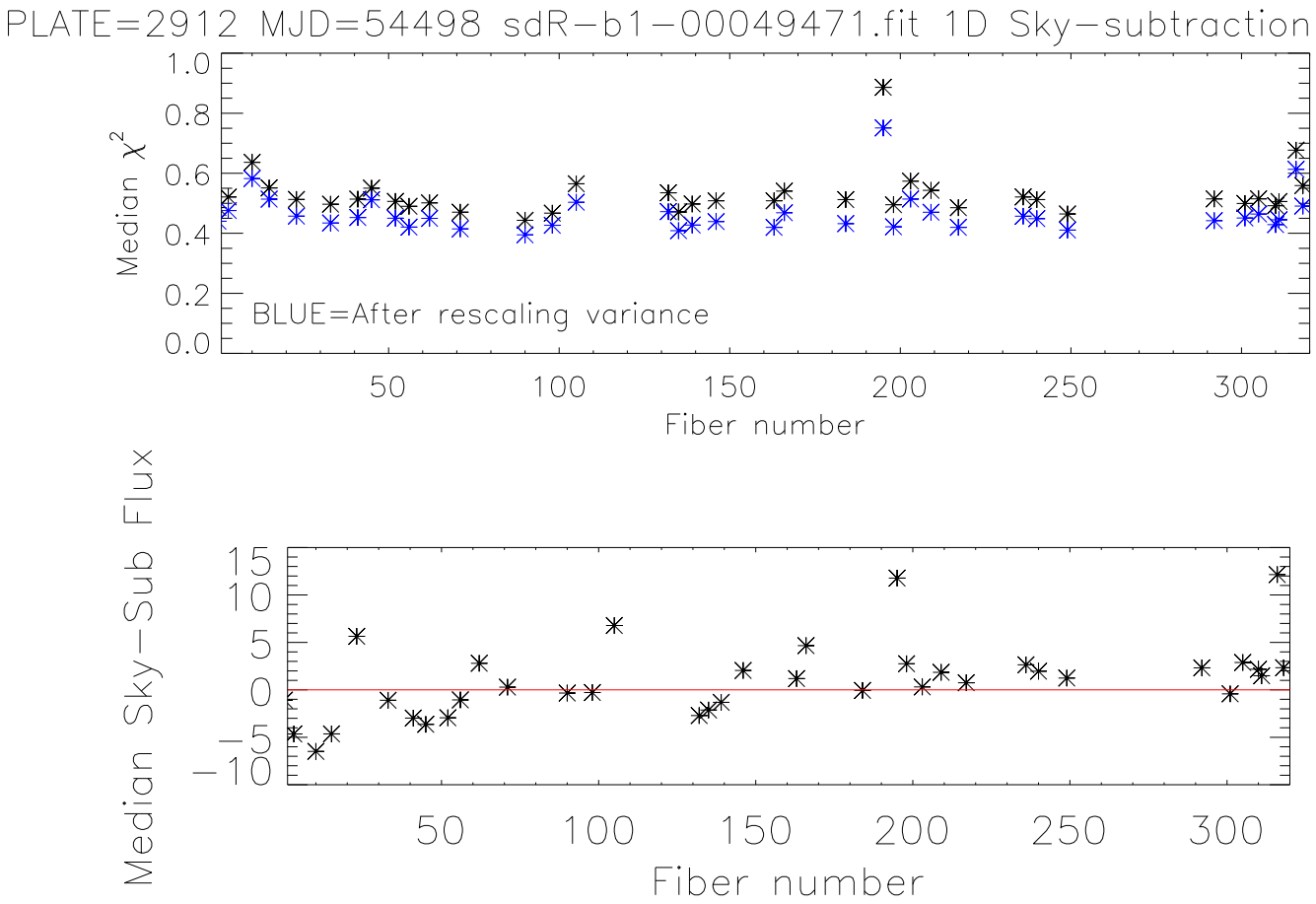

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

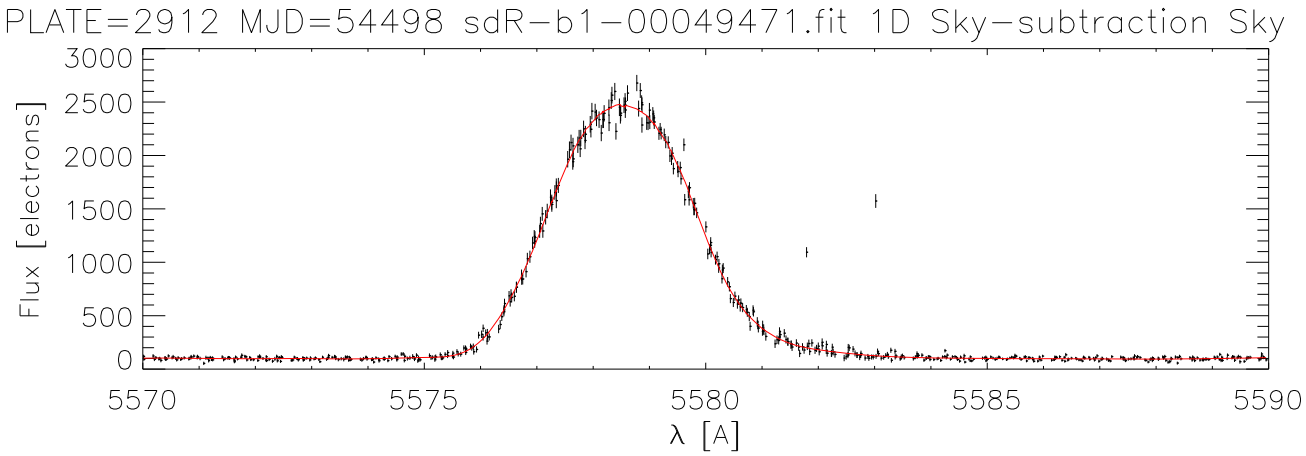

4046.5600
nfib1 39
nfib2 39
stdev 0.129
extra −0.30
4358.3300
nfib1 37
nfib2 37
stdev 0.060
extra −0.37
5460.9400
nfib1 40
nfib2 40
stdev 0.046
extra −0.06
5577.3390
nfib1 39
nfib2 40
stdev 0.022
extra 0.02
5889.9500
nfib1 40
nfib2 40
stdev 0.042
extra 0.21
5895.9240
nfib1 40
nfib2 40
stdev 0.046
extra 0.21
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

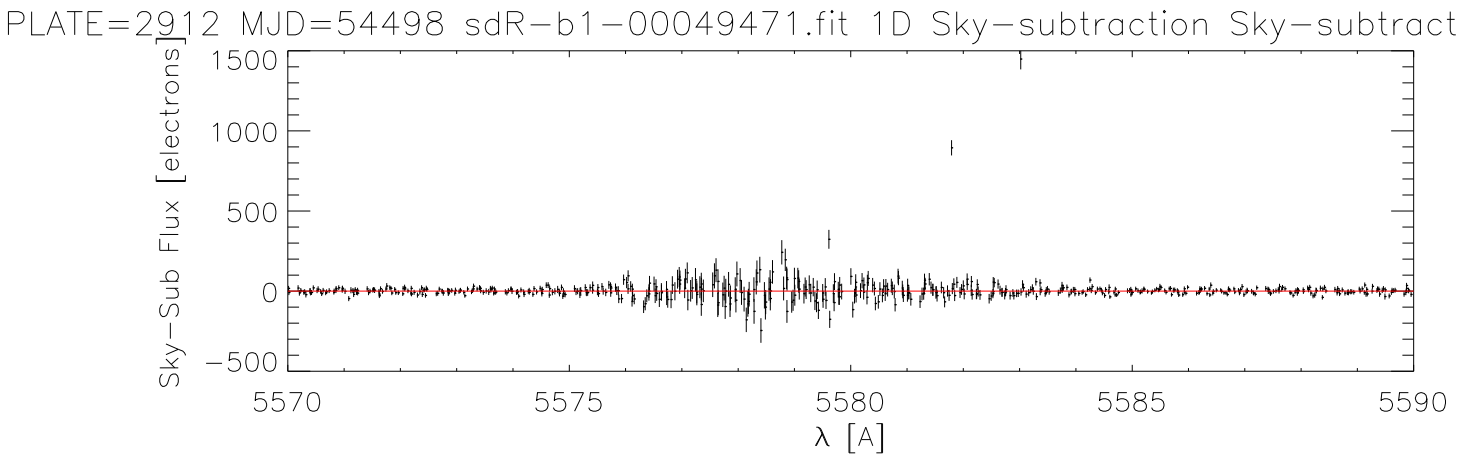

0.2
0.0
−0.2
−0.4
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

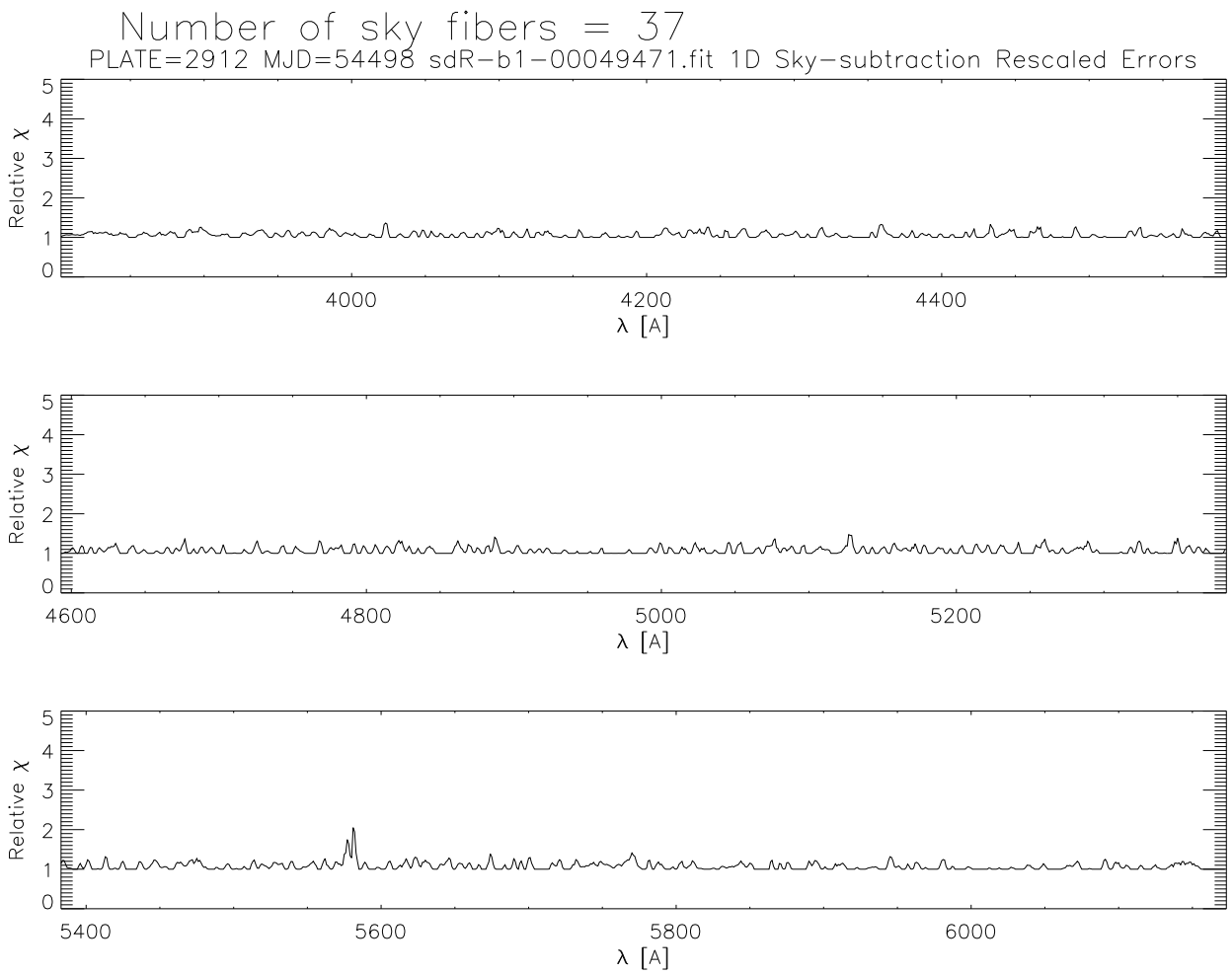

PLATE=2912 MJD=54498 Smooth superflat for sdR-b1-00049471.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

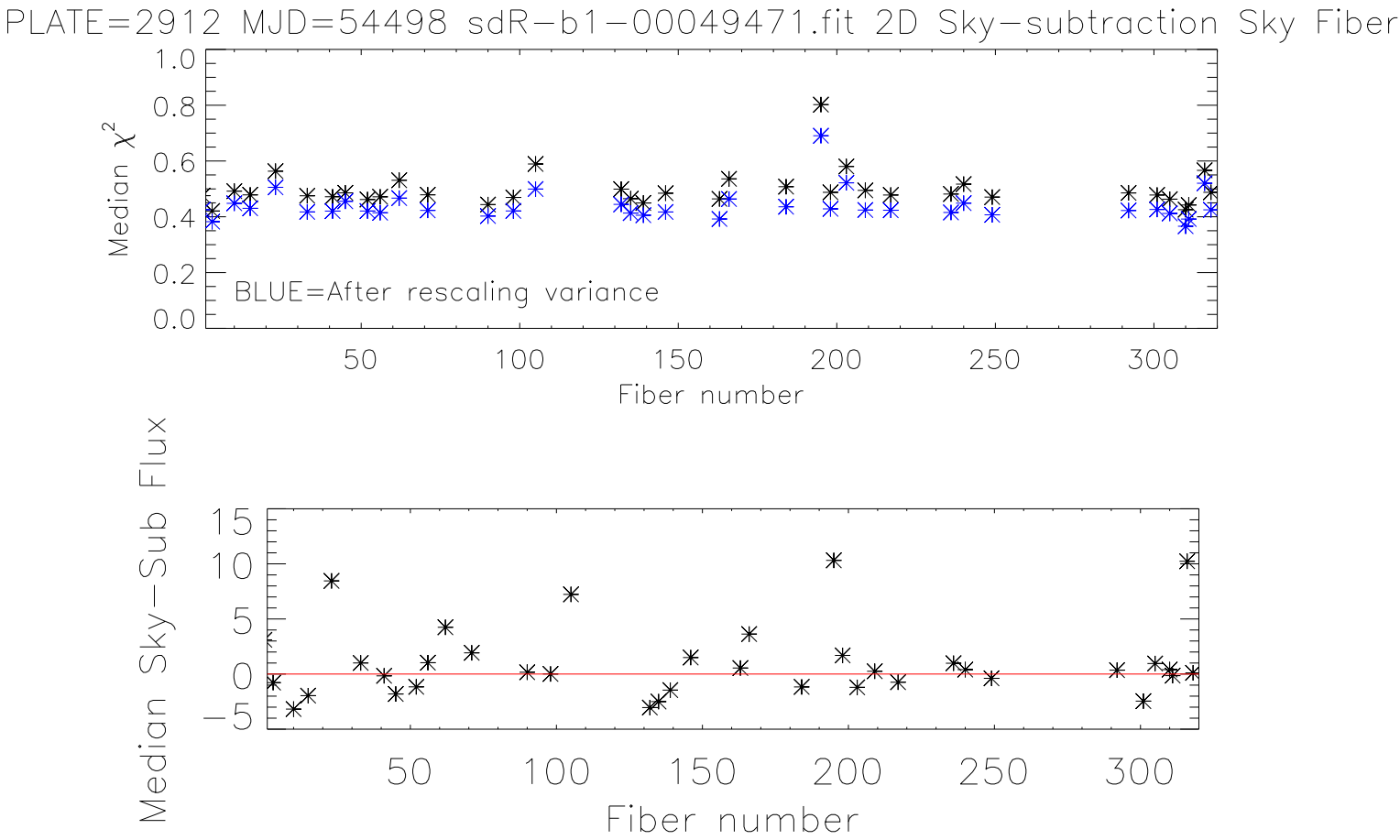
es= −0.0001

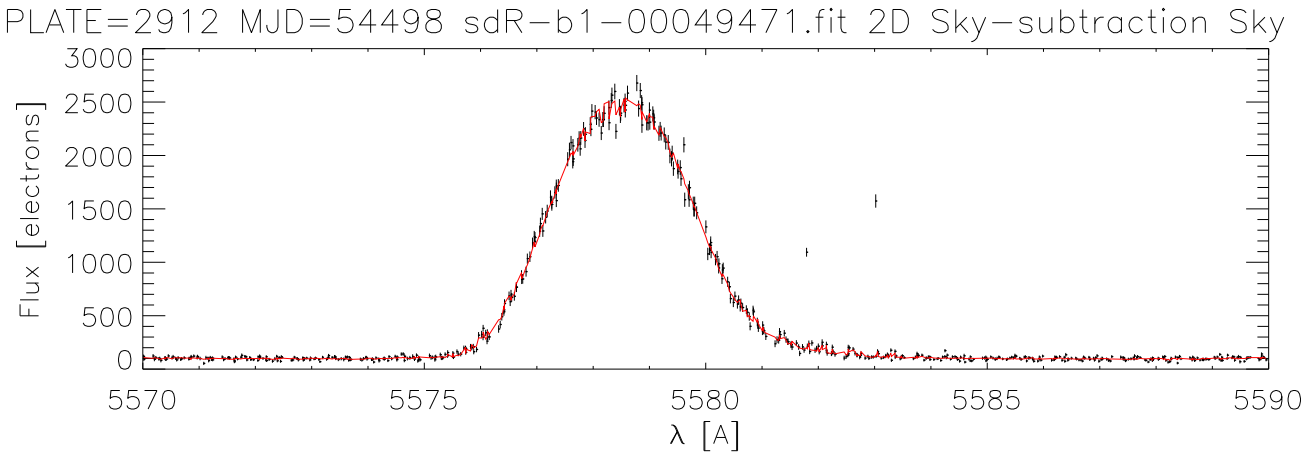

PLATE=2912 MJD=54498 sdR-b1-00049471.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

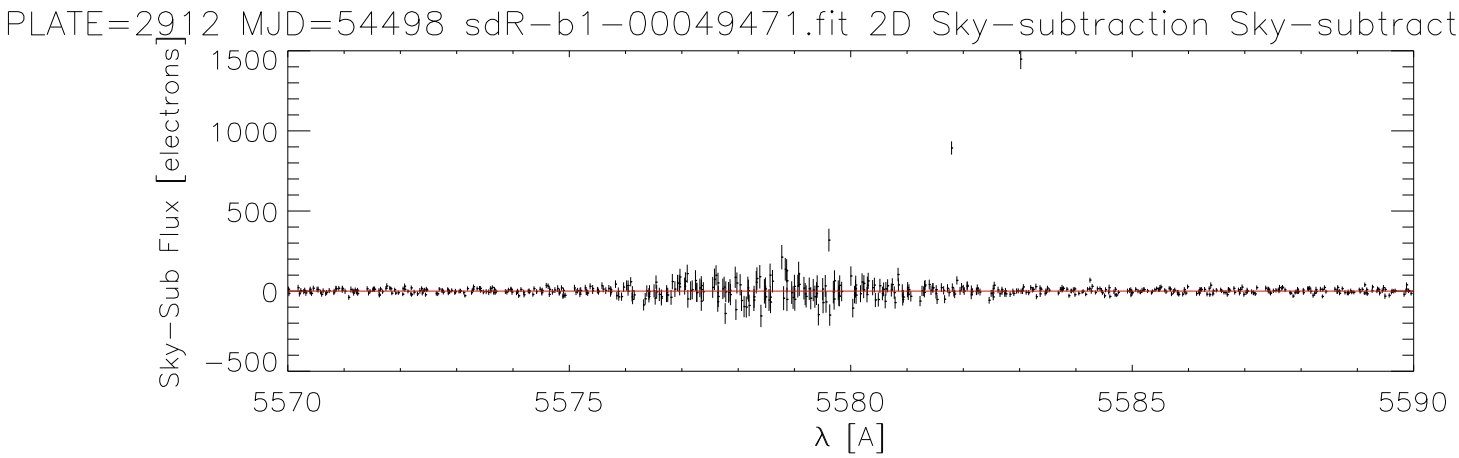

PLATE=2912 MJD=54498 sdR-b1-00049471.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

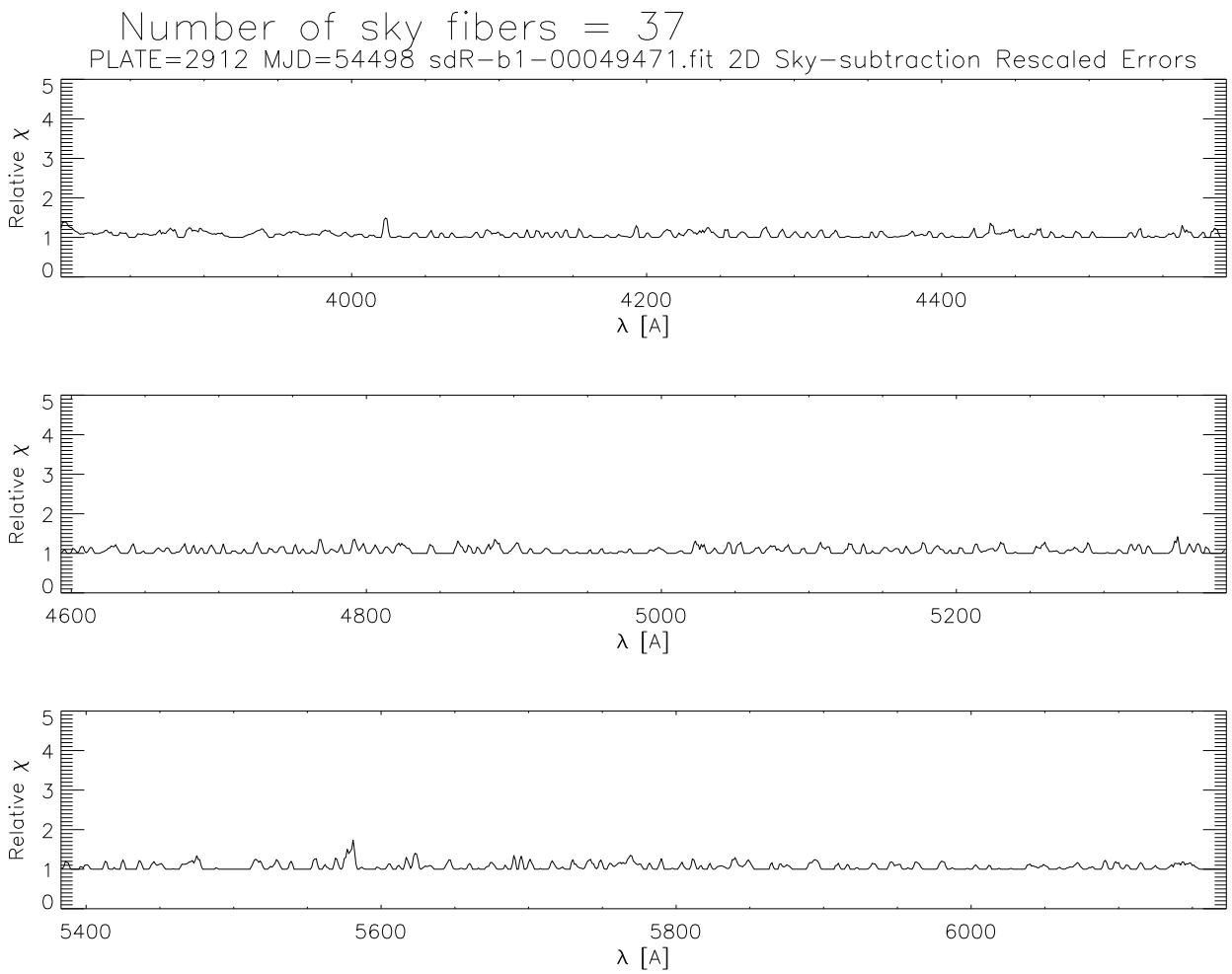

PLATE=2912 MJD=54498 sdR-b1-00049471.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

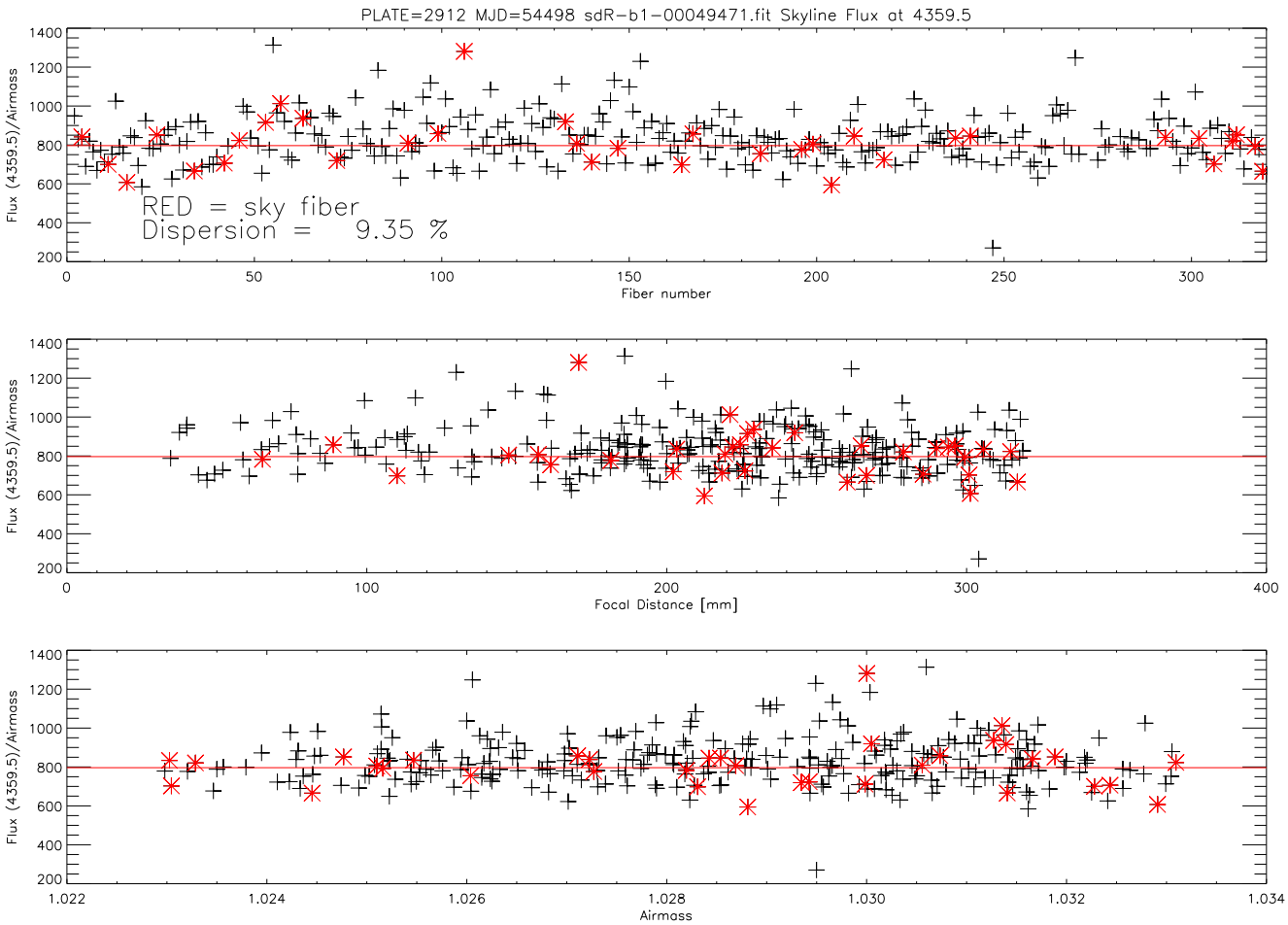

Number of sky fibers = 37
PLATE=2912 MJD=54498 sdR-b1-00049471.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

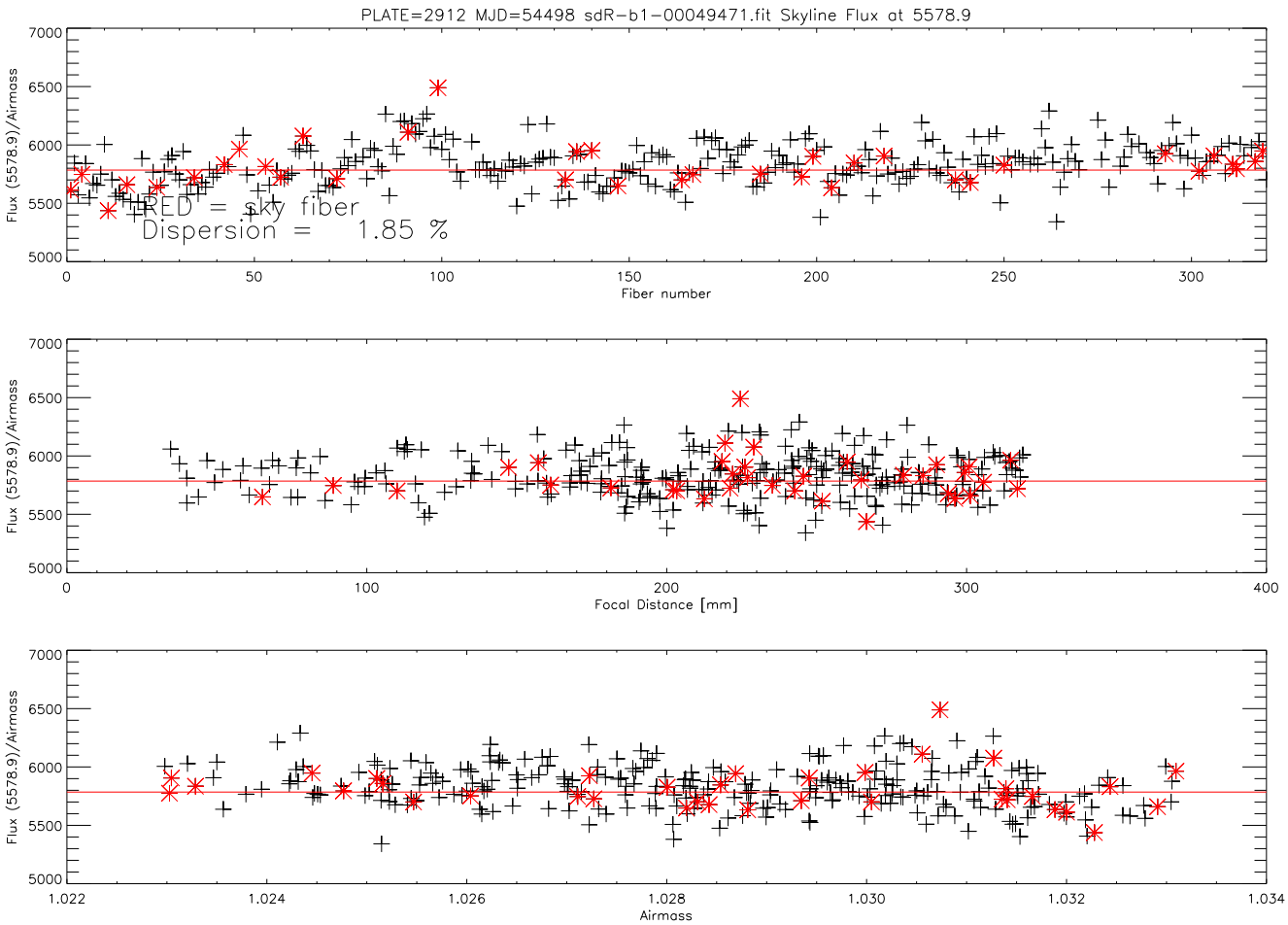

PLATE=2912 MJD=54498 sdR-b1-00049471.fit 2D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
50
100
150
200
250
300
Fiber number

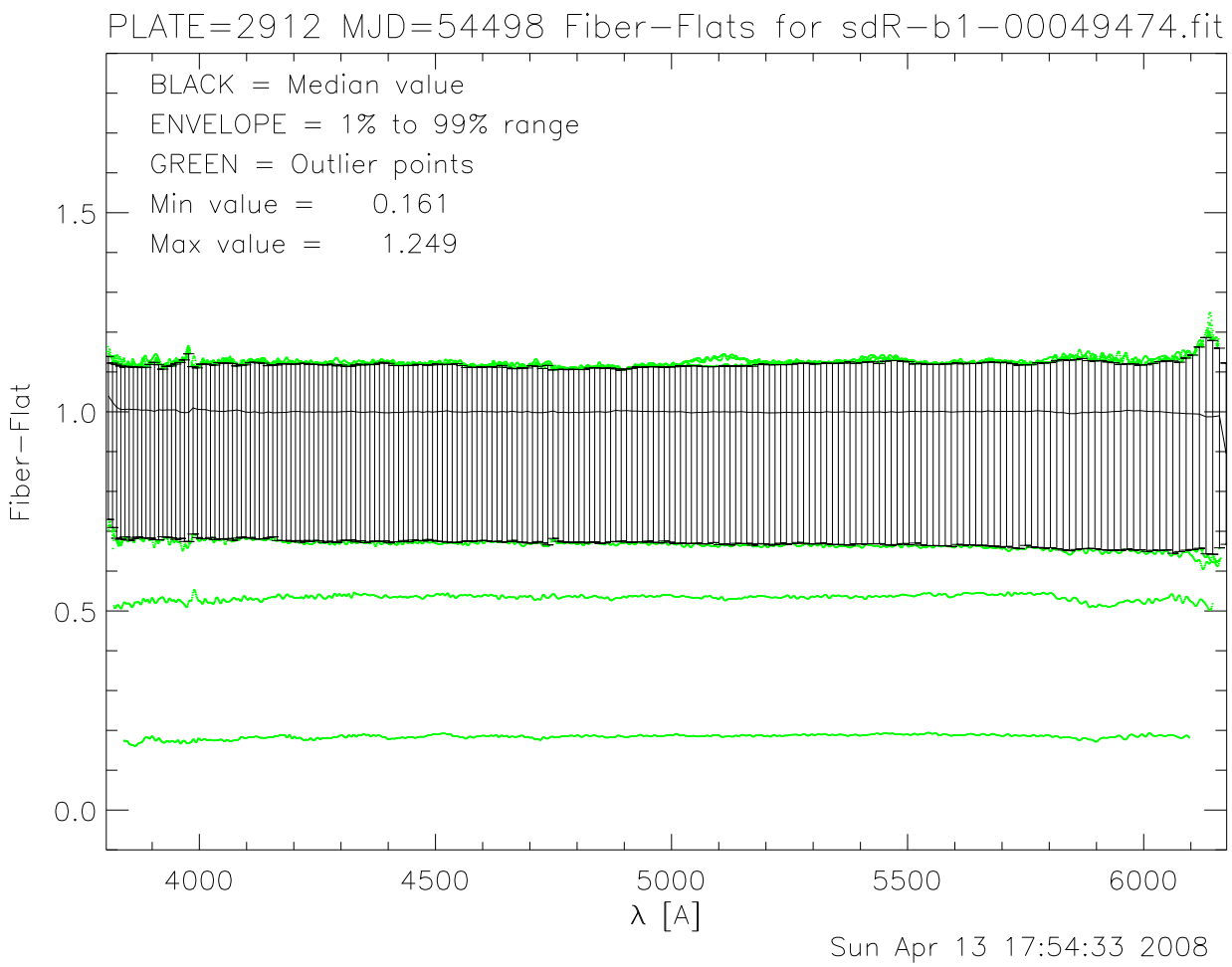

PLATE=2912 MJD=54498 sdR-b1-00049471.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

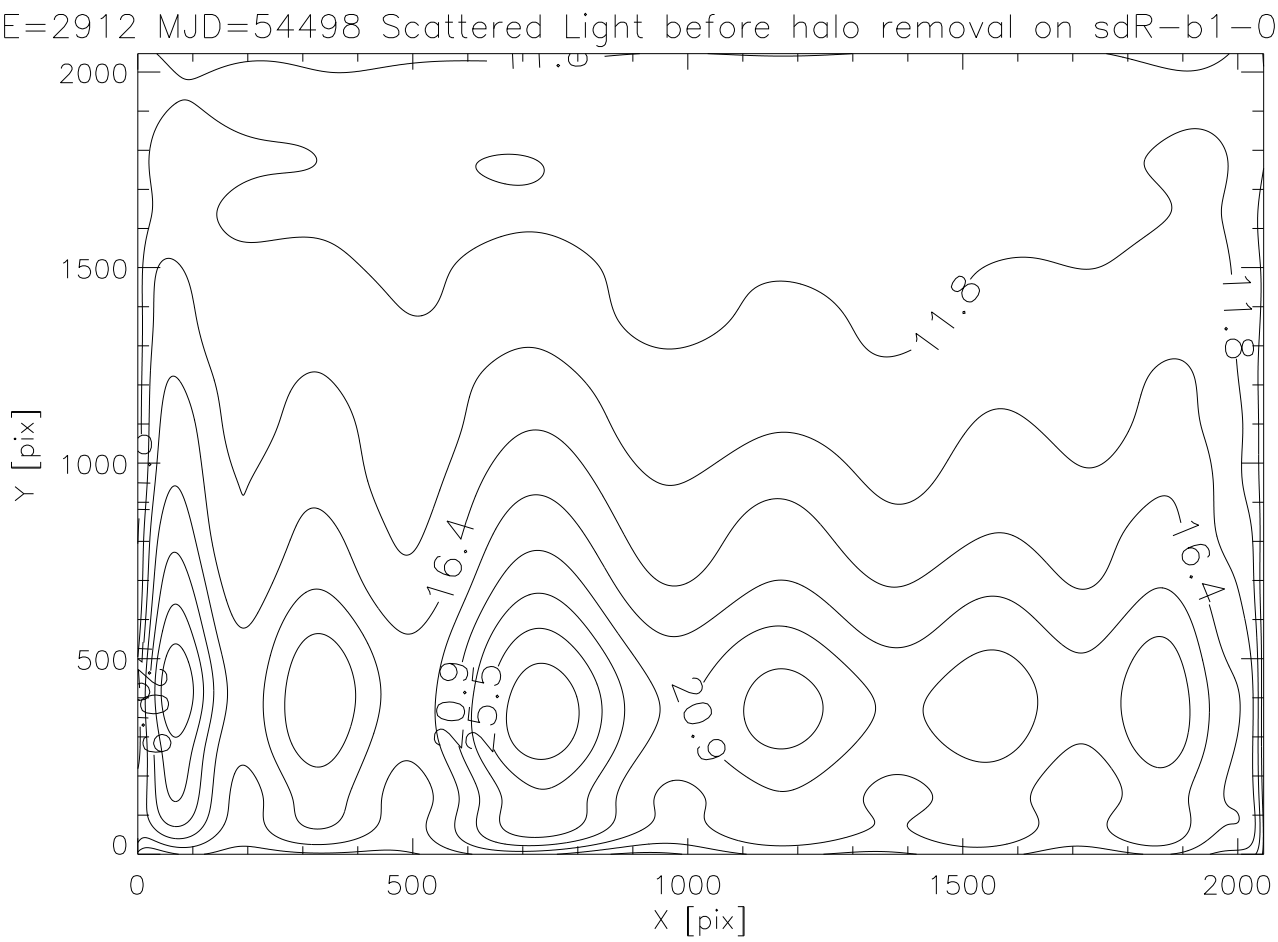

PLATE=2912 MJD=54498 sdR-b1-00049471.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

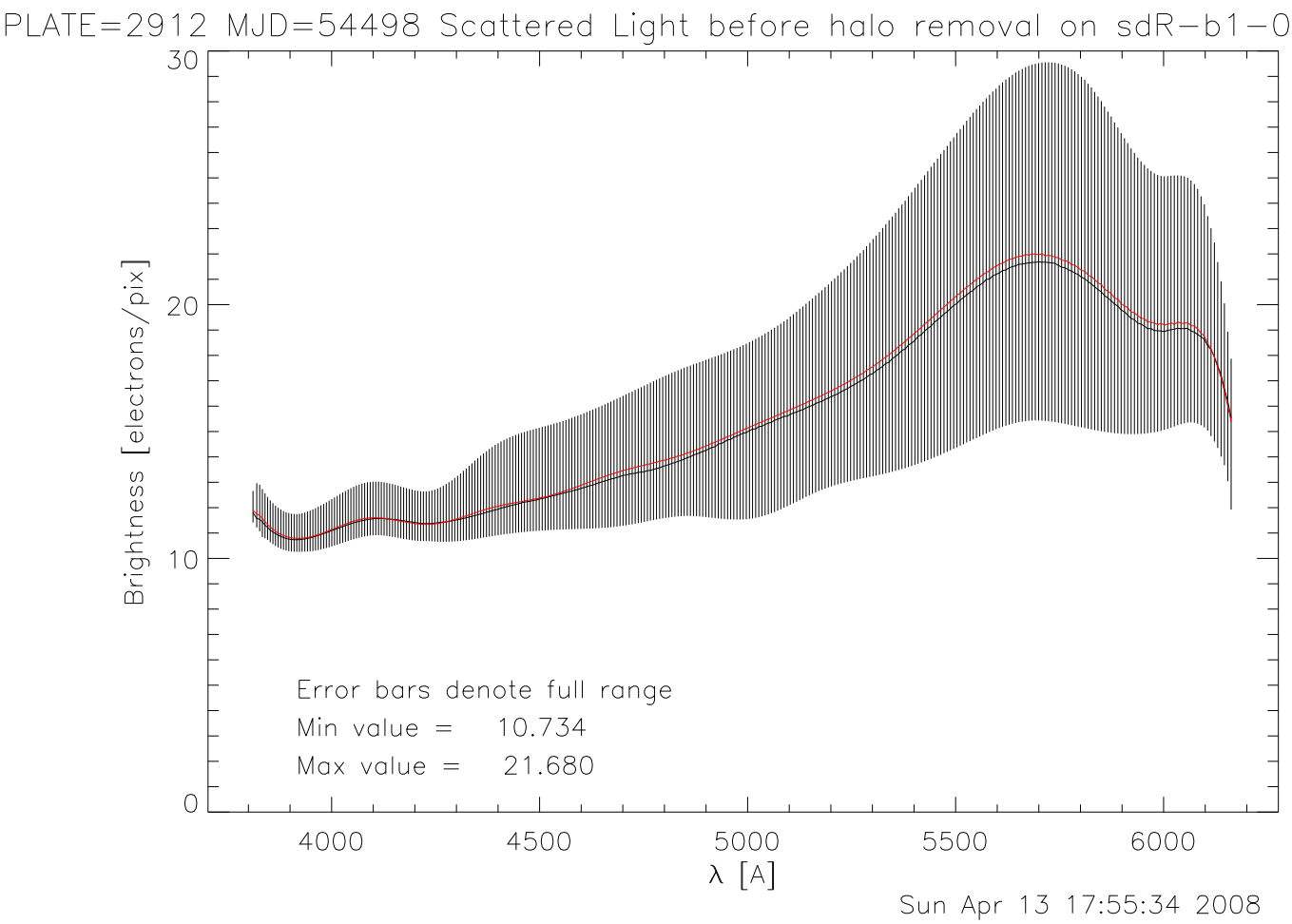

Number of sky fibers = 37
PLATE=2912 MJD=54498 sdR-b1-00049471.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

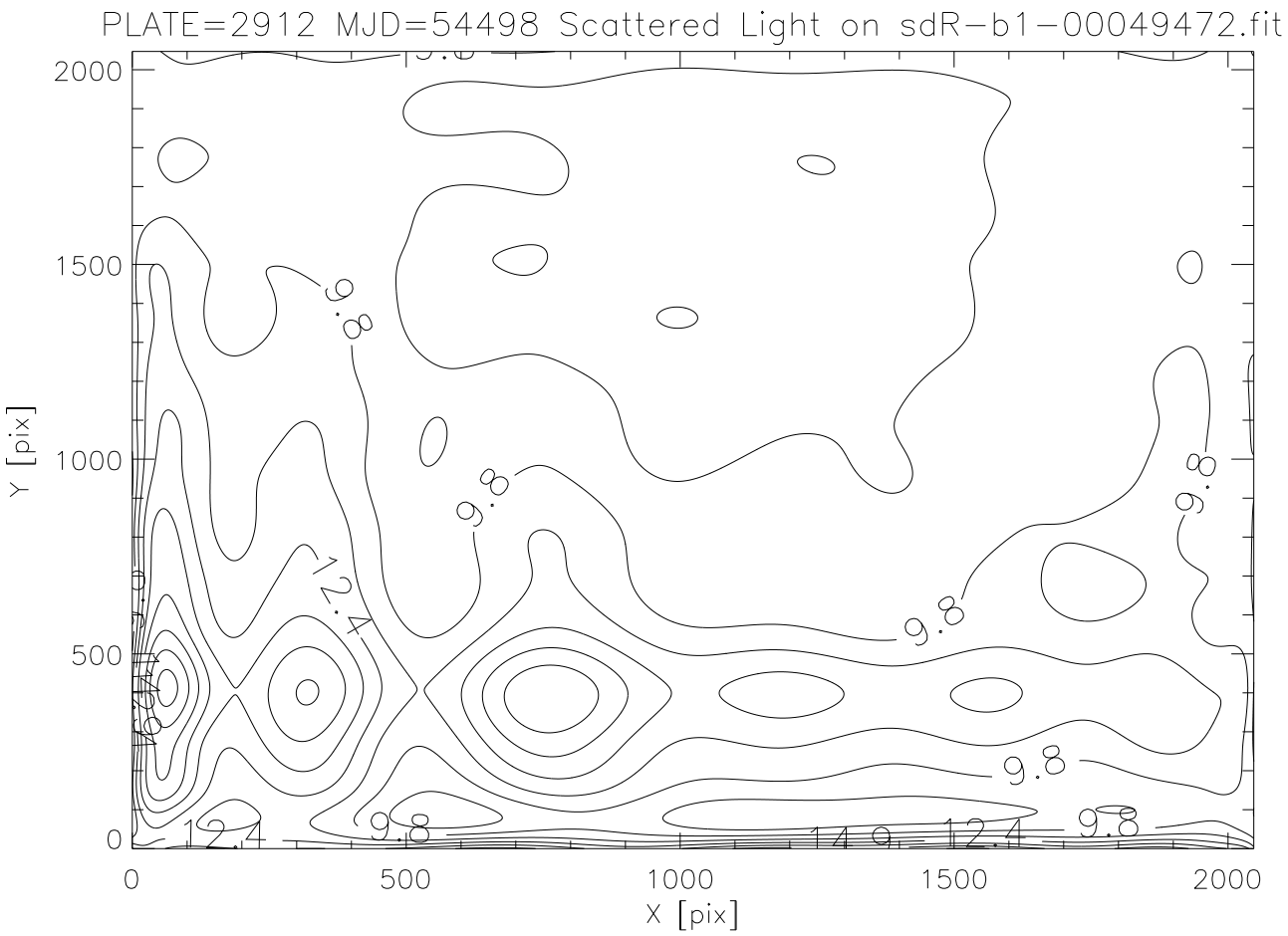

PLATE=2912 MJD=54498 sdR-b1-00049471.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.35 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

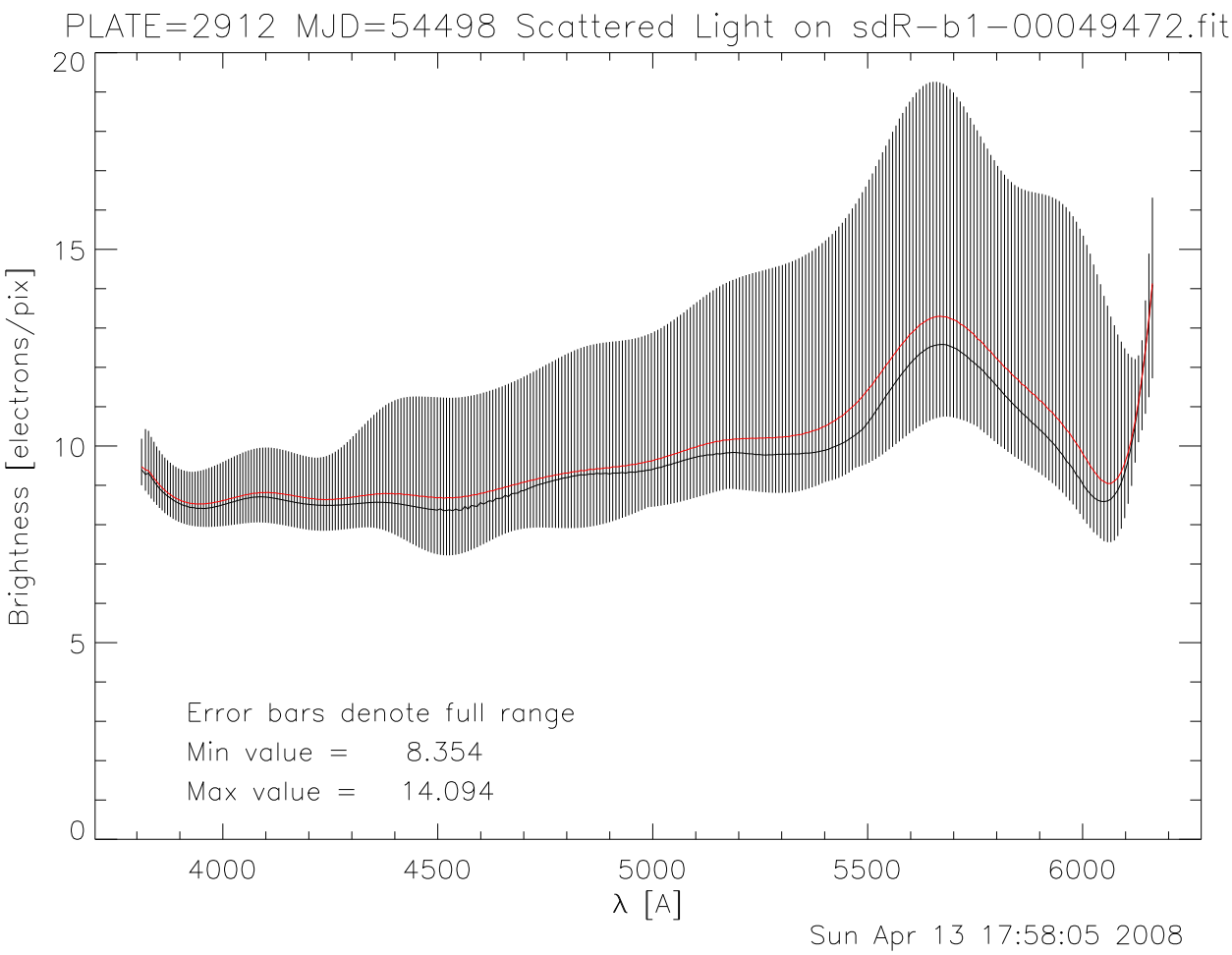

PLATE=2912 MJD=54498 sdR-b1-00049471.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.85 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

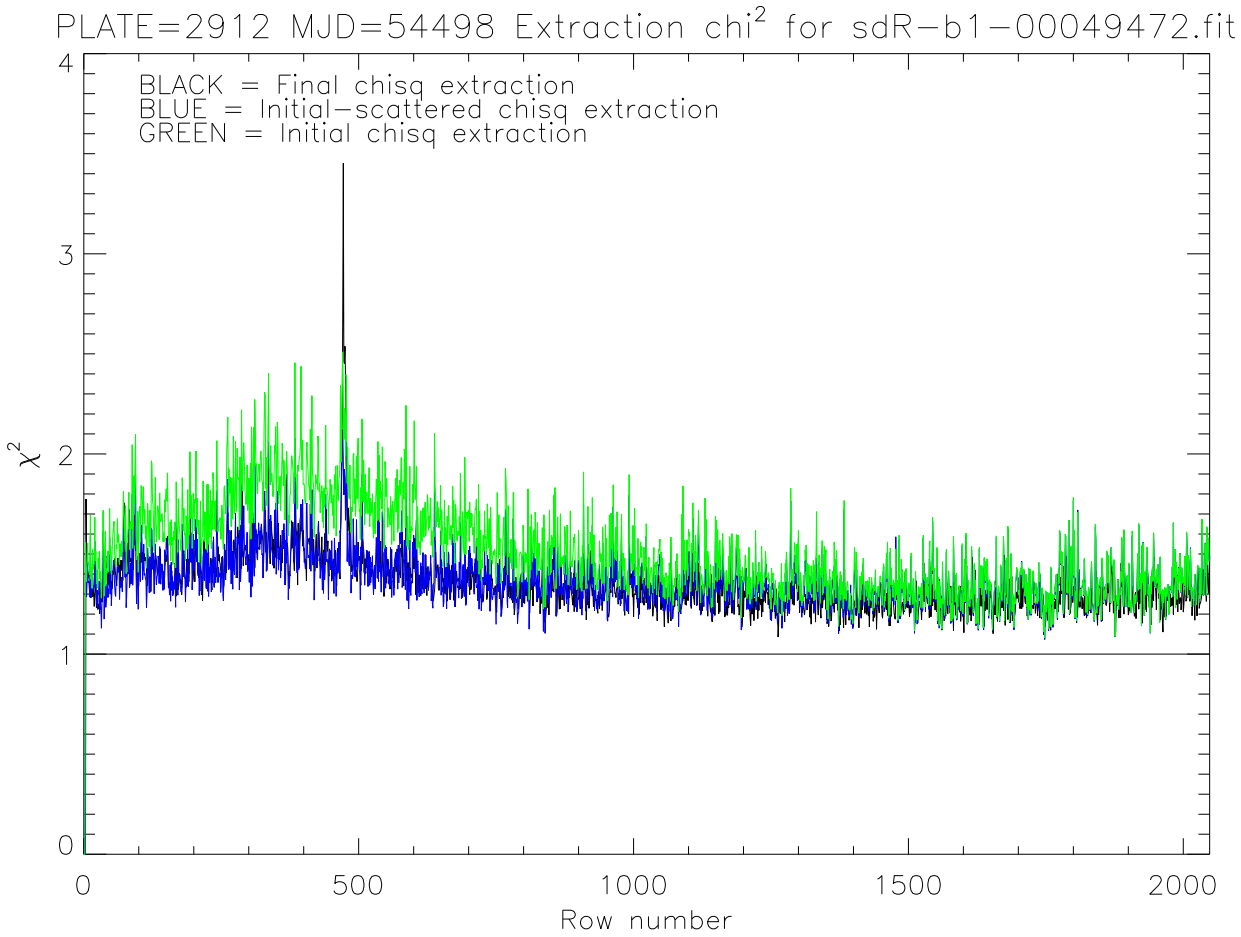

PLATE=2912 MJD=54498 Fiber-Flats for sdR-b1-00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.161
Max value = 1.249
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 17:54:33 2008

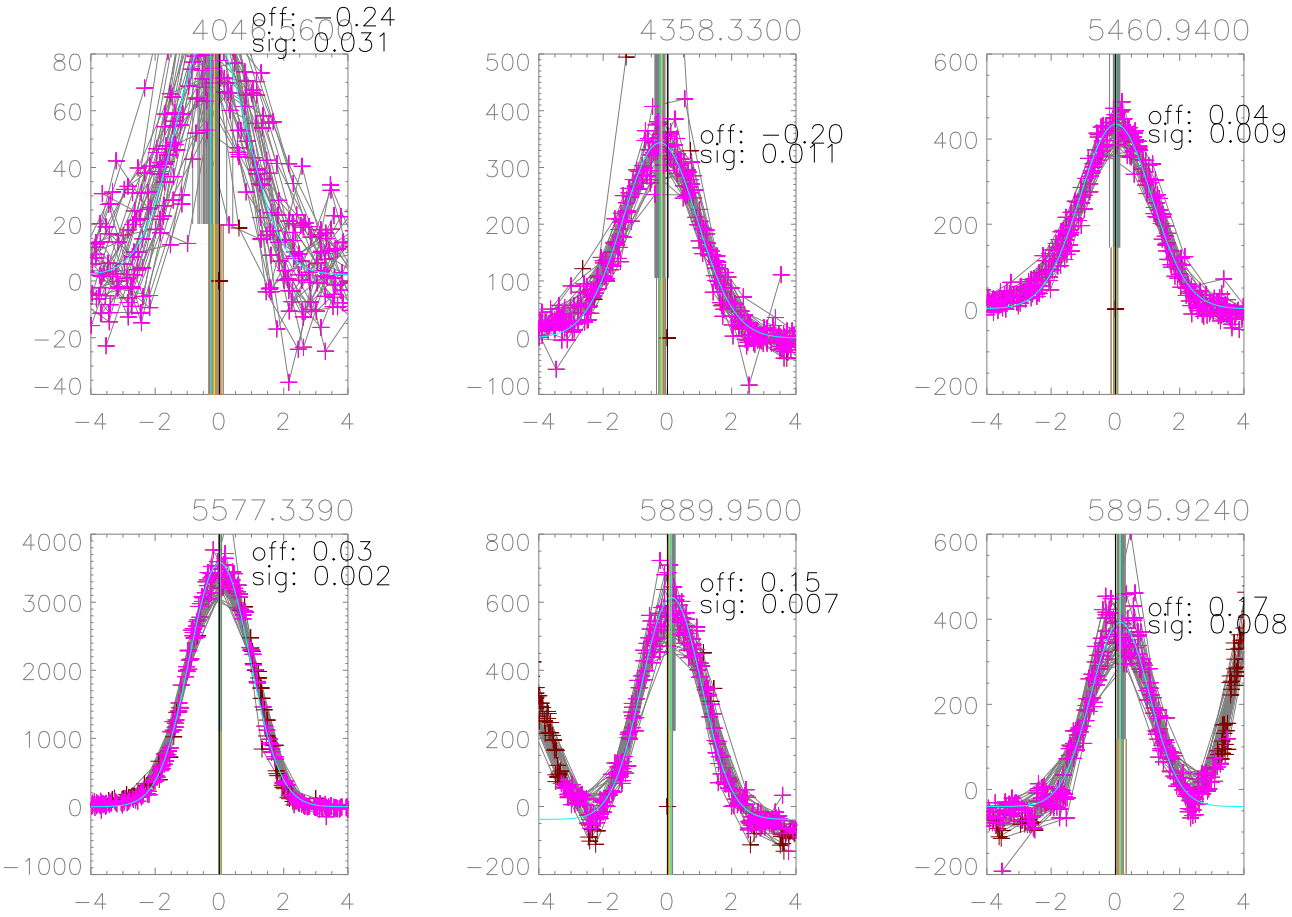

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR−b1−00049472.f
11.8
16.4
20.9
25.5
Y [pix]
X [pix]
0
500
1000
1500
2000

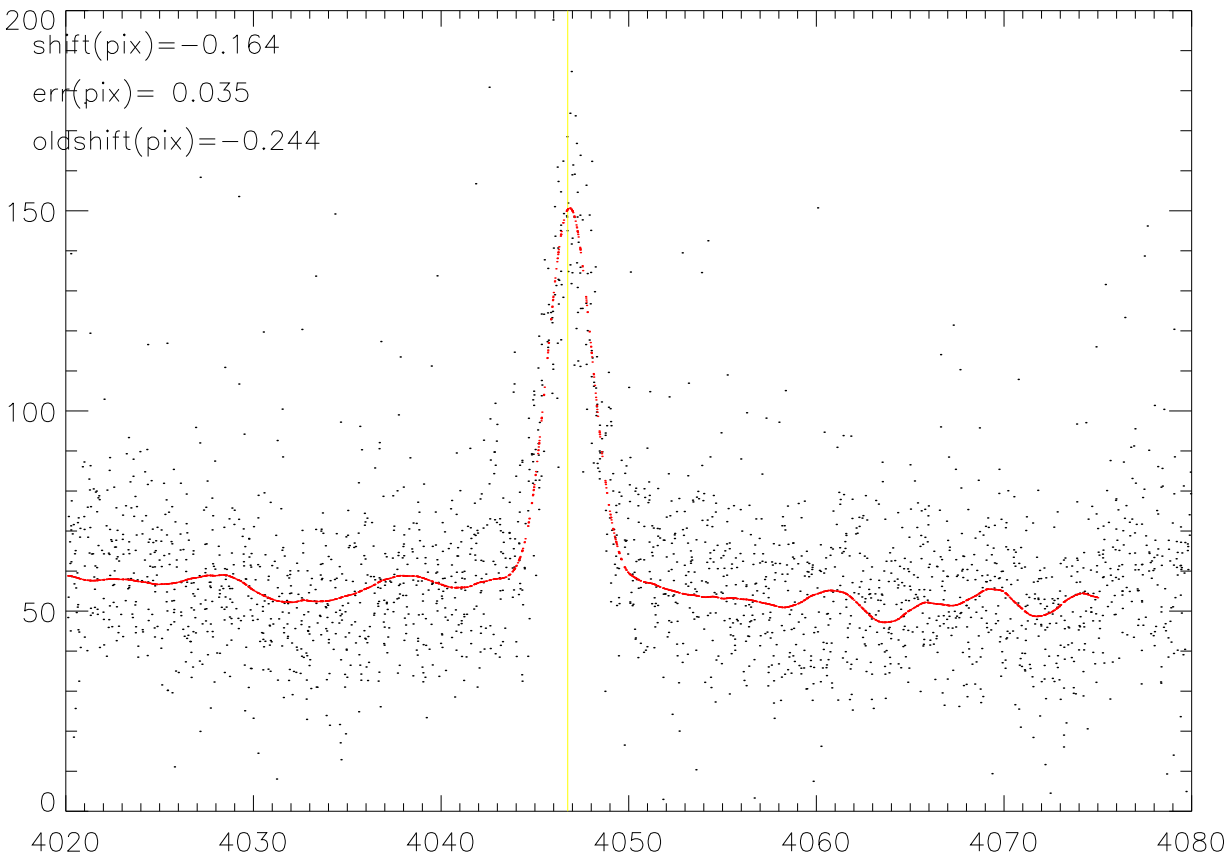

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-b1-00049472.f
Brightness [electrons/pix]
30
20
10
0
Error bars denote full range
Min value = 10.734
Max value = 21.680
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 17:55:34 2008

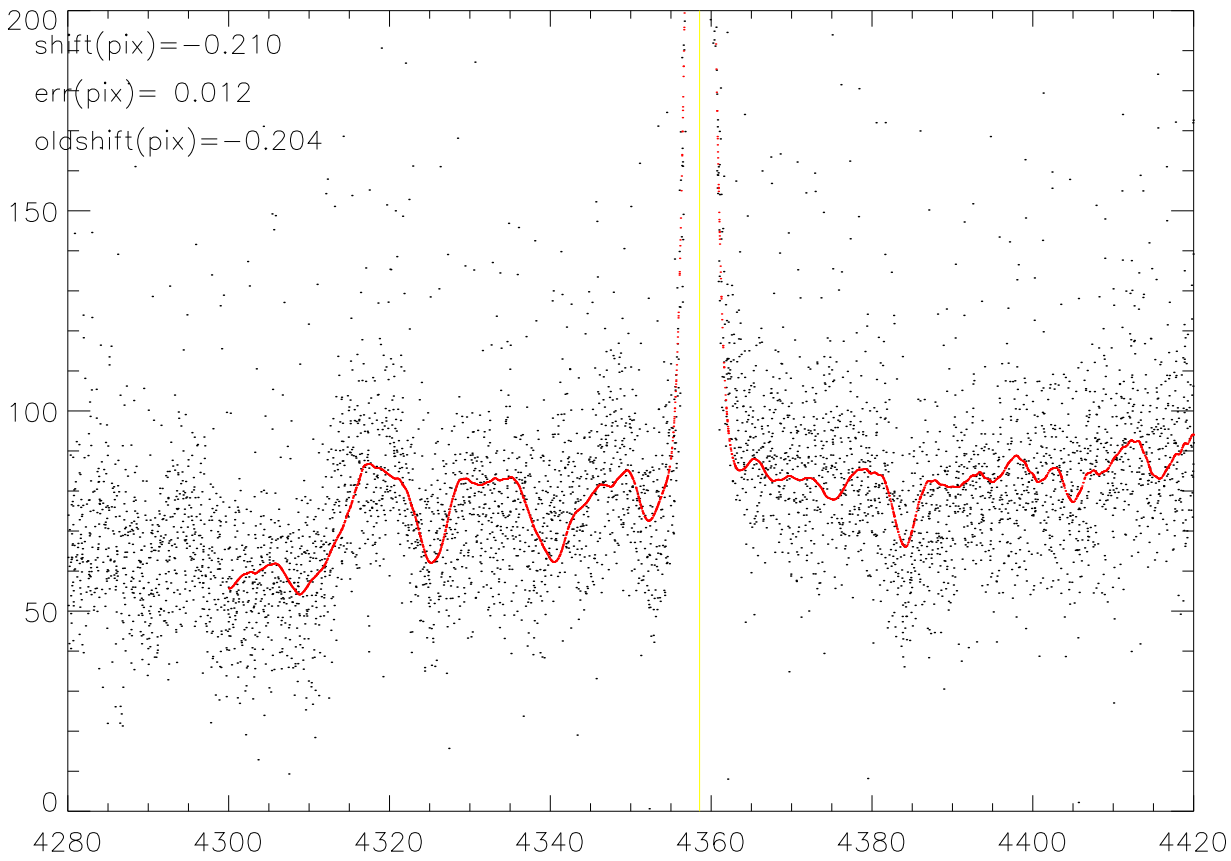

PLATE=2912 MJD=54498 Scattered Light on sdR-b1-00049472.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.8
12.4
14.9

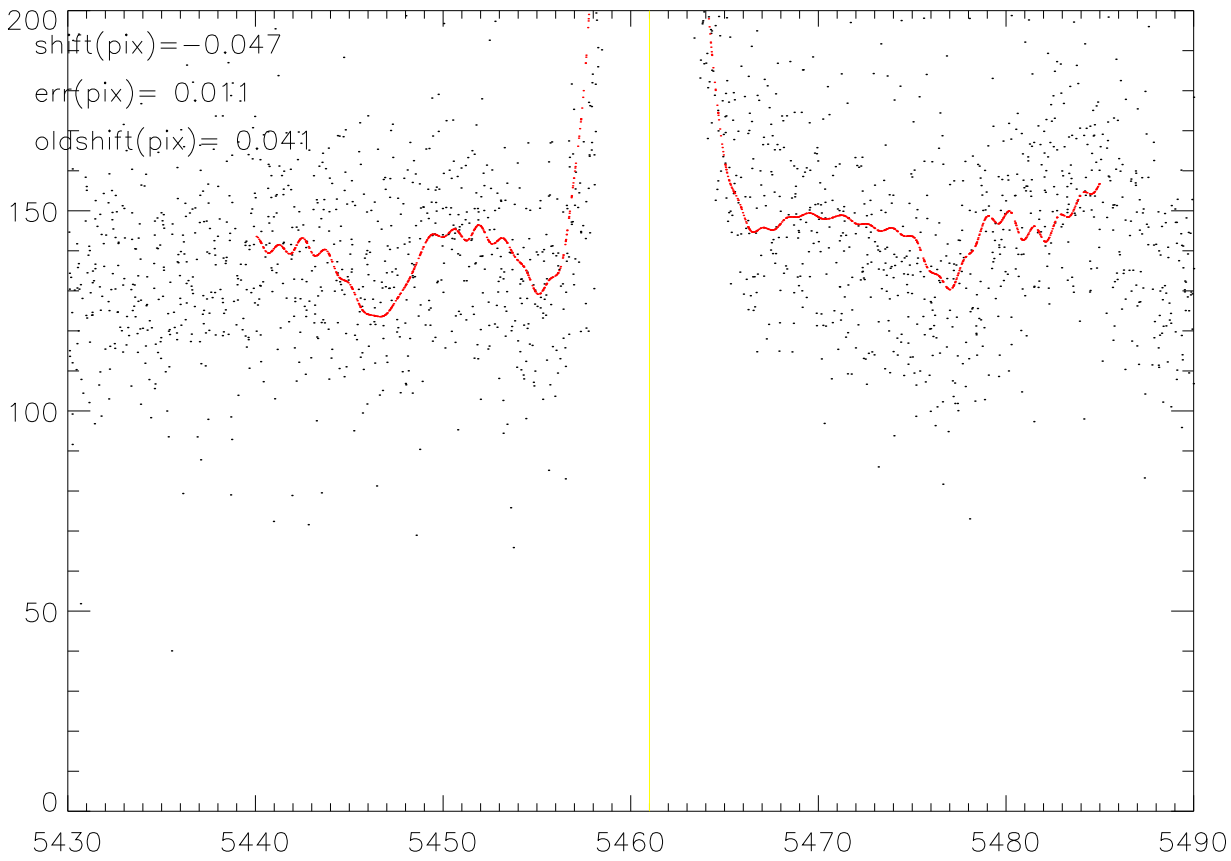

PLATE=2912 MJD=54498 Scattered Light on sdR-b1-00049472.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.354
Max value = 14.094
Sun Apr 13 17:58:05 2008

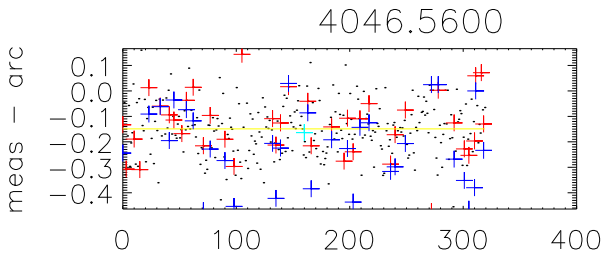

PLATE=2912 MJD=54498 Extraction chi^2 for sdR-b1-00049472.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

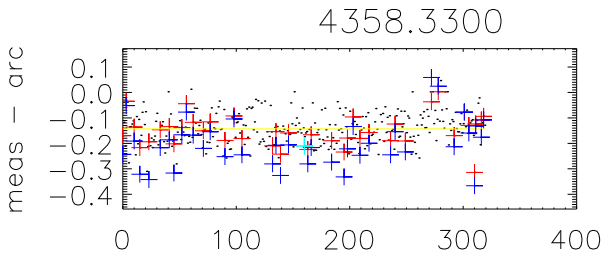

4046.5600
off: −0.24
sig: 0.031
4358.3300
off: −0.20
sig: 0.011
5460.9400
off: 0.04
sig: 0.009
5577.3390
off: 0.03
sig: 0.002
5889.9500
off: 0.15
sig: 0.007
5895.9240
off: 0.17
sig: 0.008

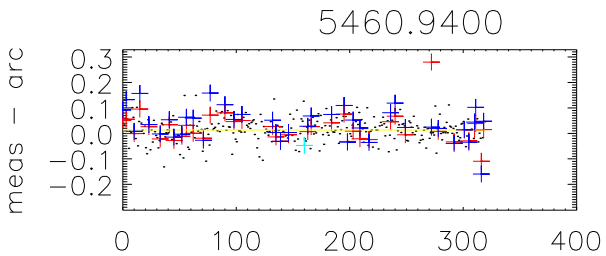

shift(pix)=−0.164
err(pix)= 0.035
oldshift(pix)=−0.244
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

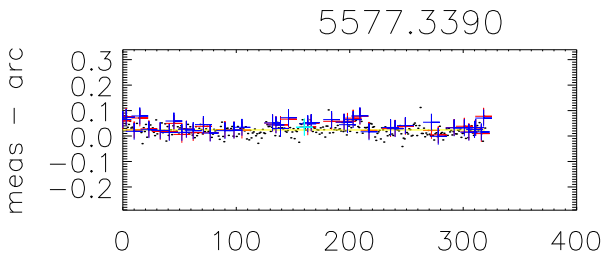

shift(pix)=−0.210
err(pix)= 0.012
oldshift(pix)=−0.204
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

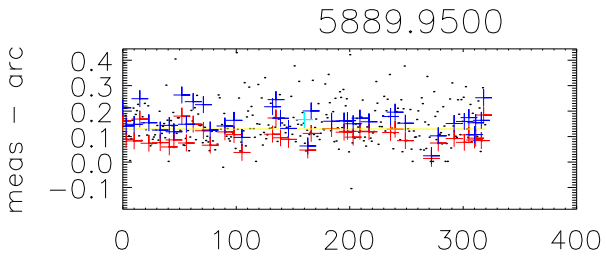

shift(pix)=−0.047
err(pix)= 0.011
oldshift(pix)= 0.041
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

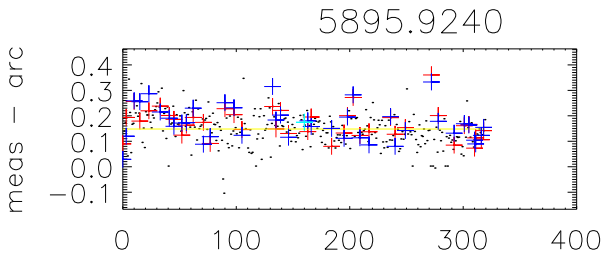

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

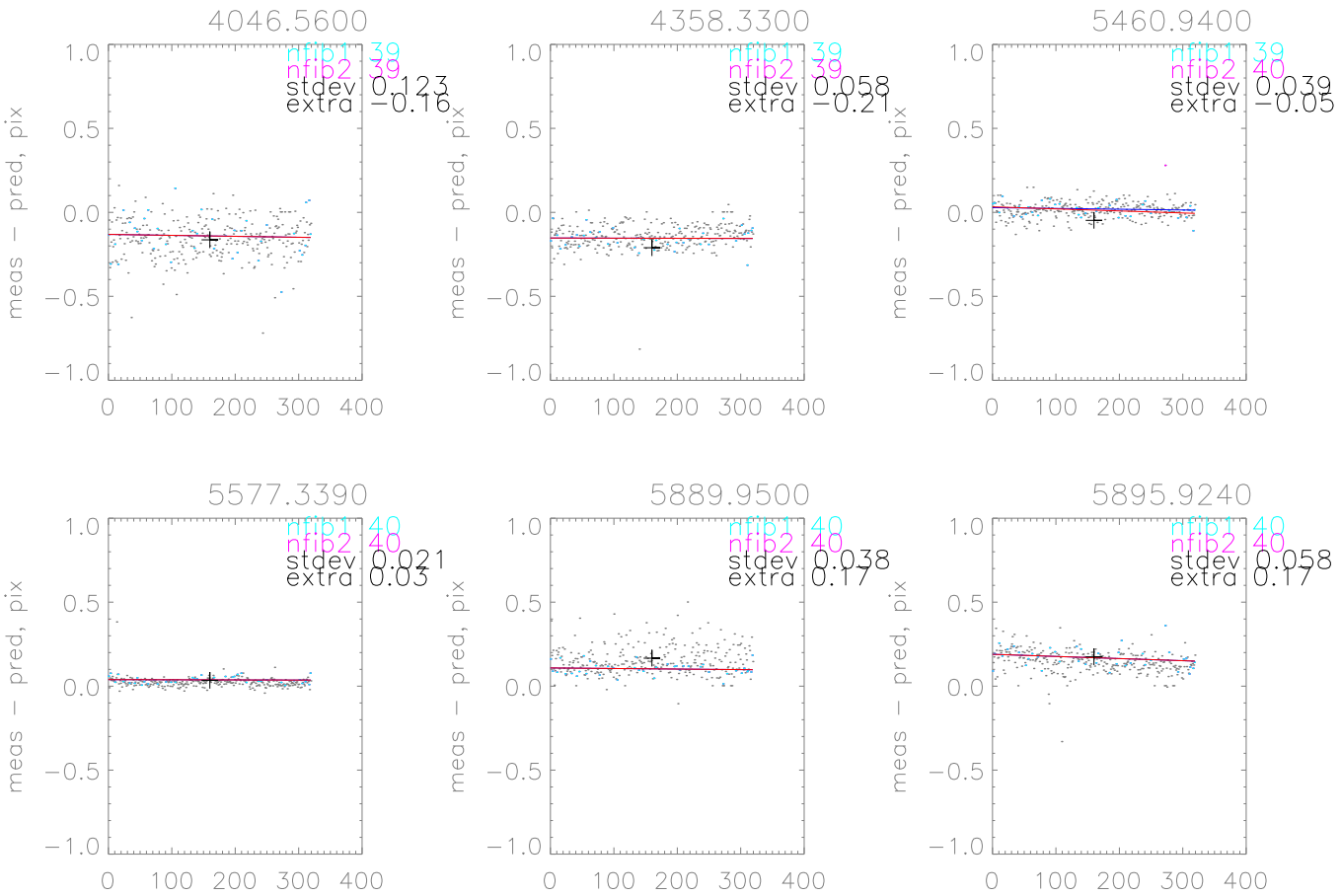

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

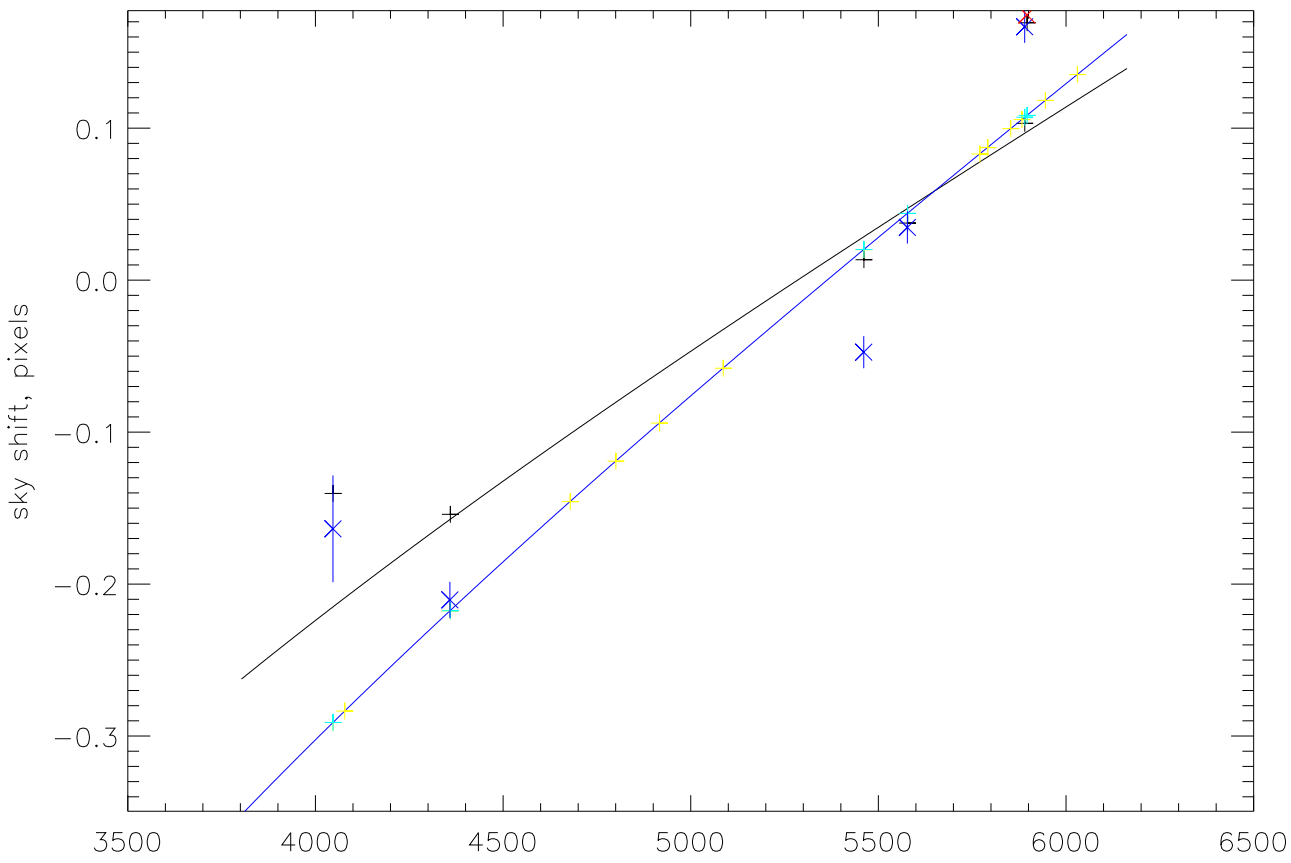

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

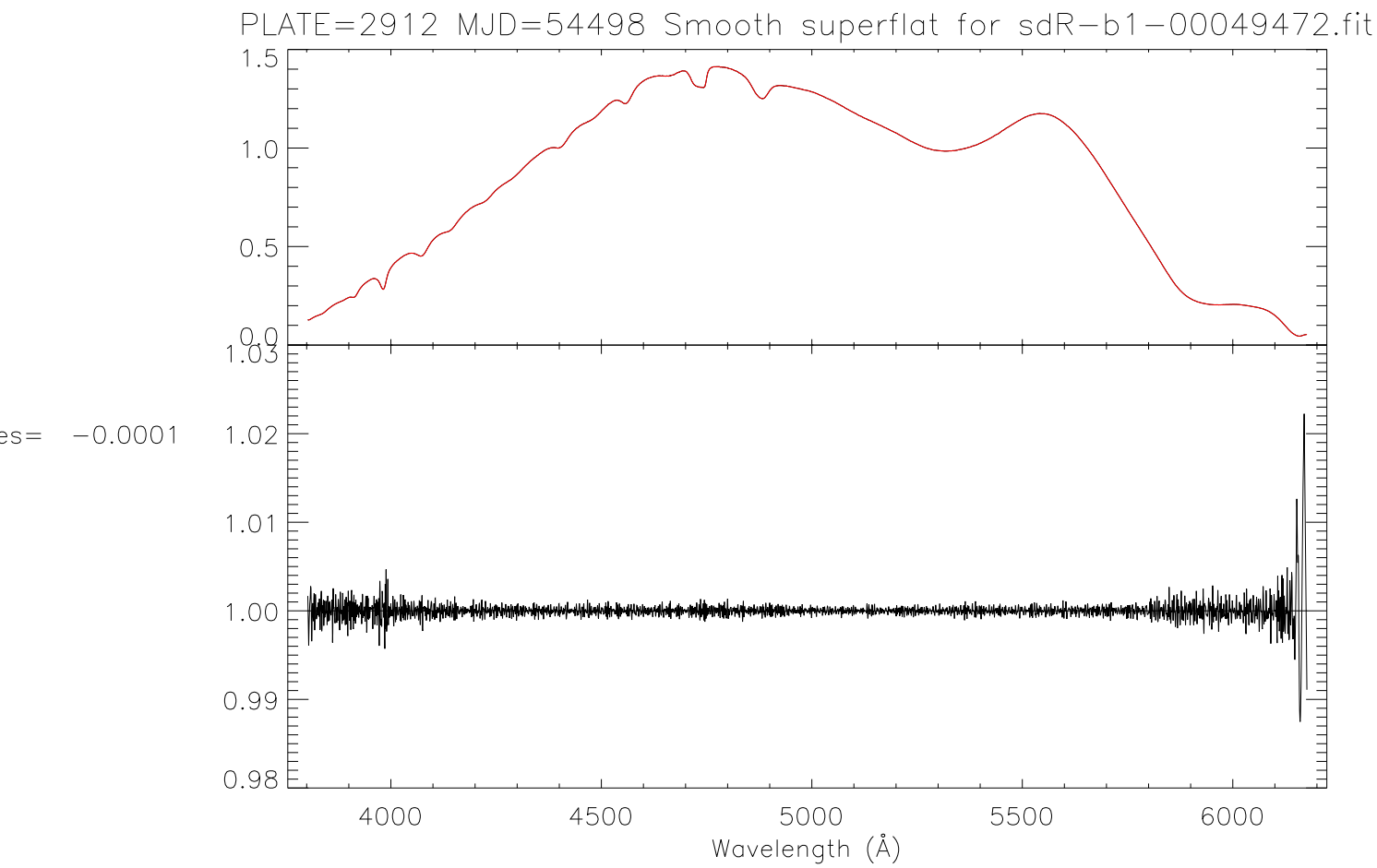

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

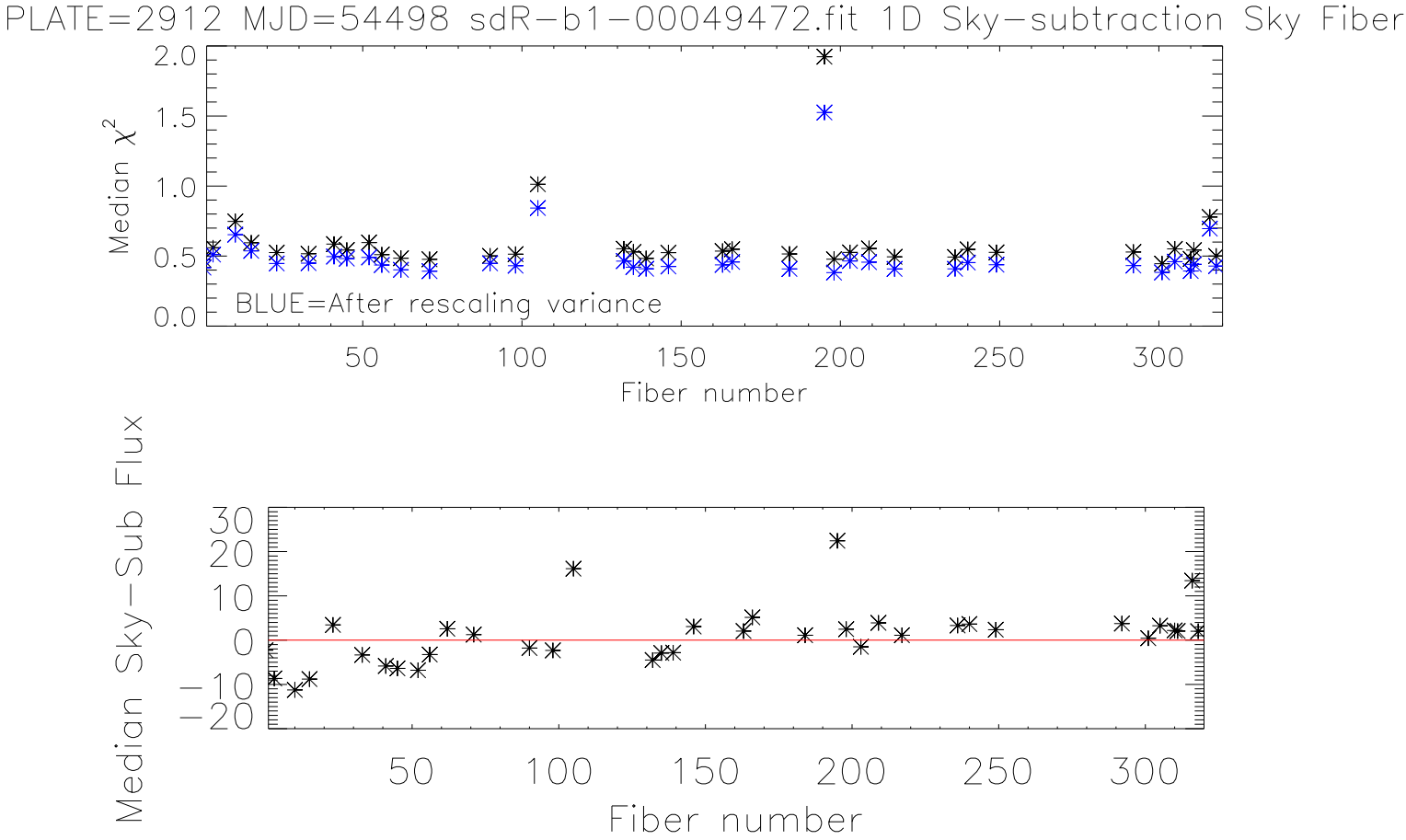

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

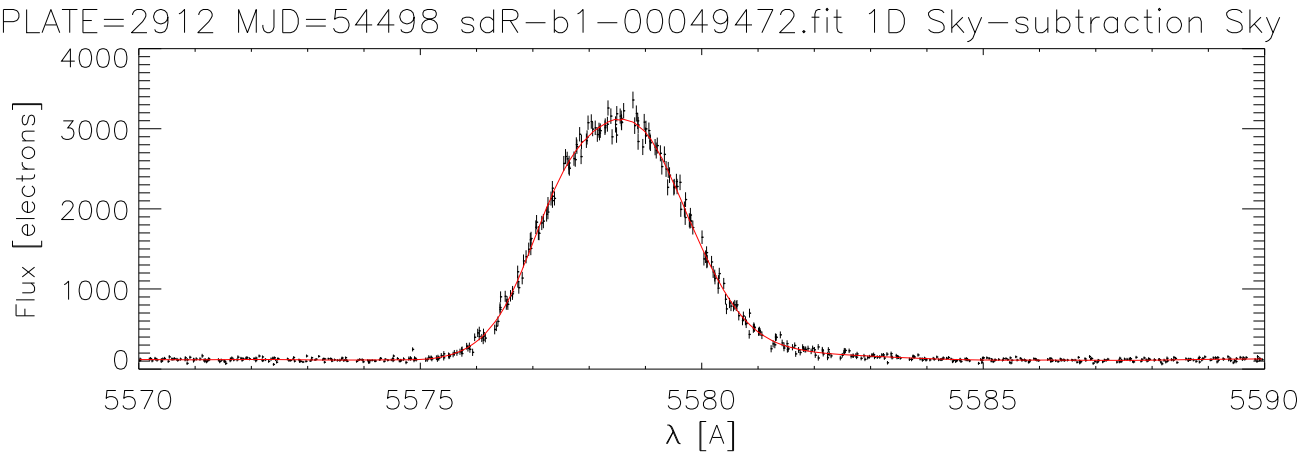

4046.5600
nfib1 39
nfib2 39
stdev 0.123
extra −0.16
4358.3300
nfib1 39
nfib2 39
stdev 0.058
extra −0.21
5460.9400
nfib1 39
nfib2 40
stdev 0.039
extra −0.05
5577.3390
nfib1 40
nfib2 40
stdev 0.021
extra 0.03
5889.9500
nfib1 40
nfib2 40
stdev 0.038
extra 0.17
5895.9240
nfib1 40
nfib2 40
stdev 0.058
extra 0.17
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

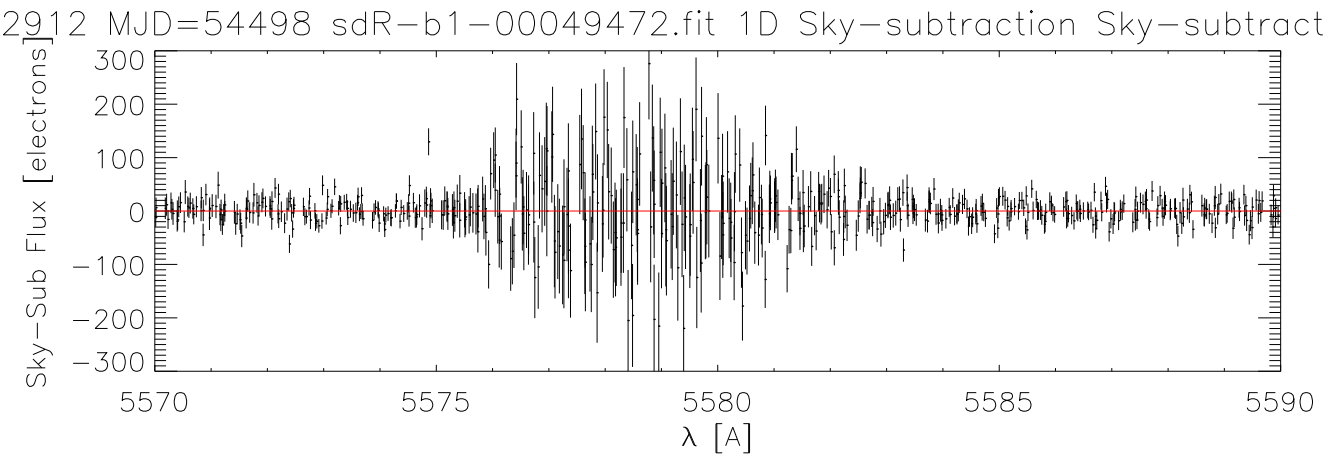

sky shift, pixels
0.1
0.0
−0.1
−0.2
−0.3
3500
4000
4500
5000
5500
6000
6500

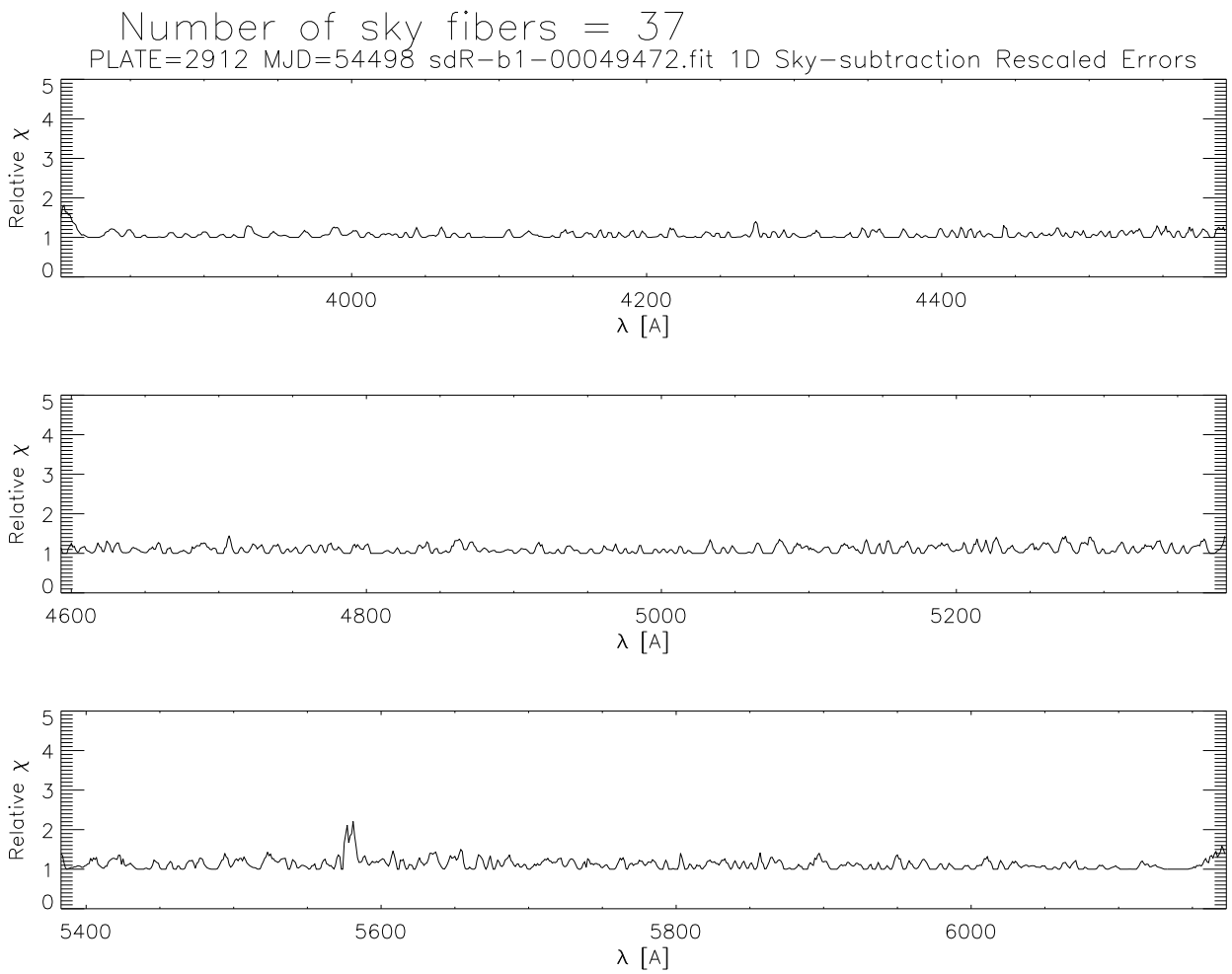

PLATE=2912 MJD=54498 Smooth superflat for sdR-b1-00049472.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

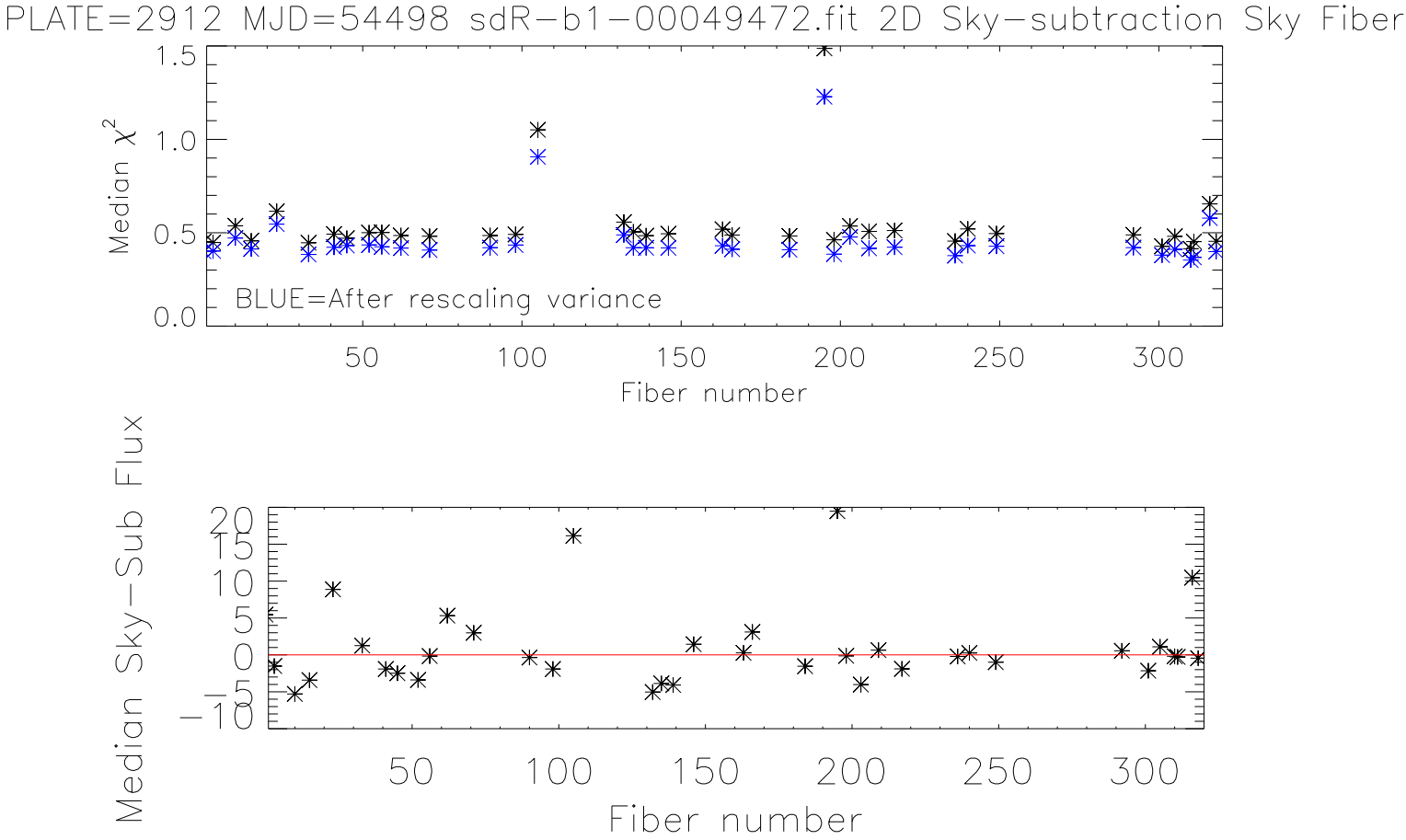
es= −0.0001

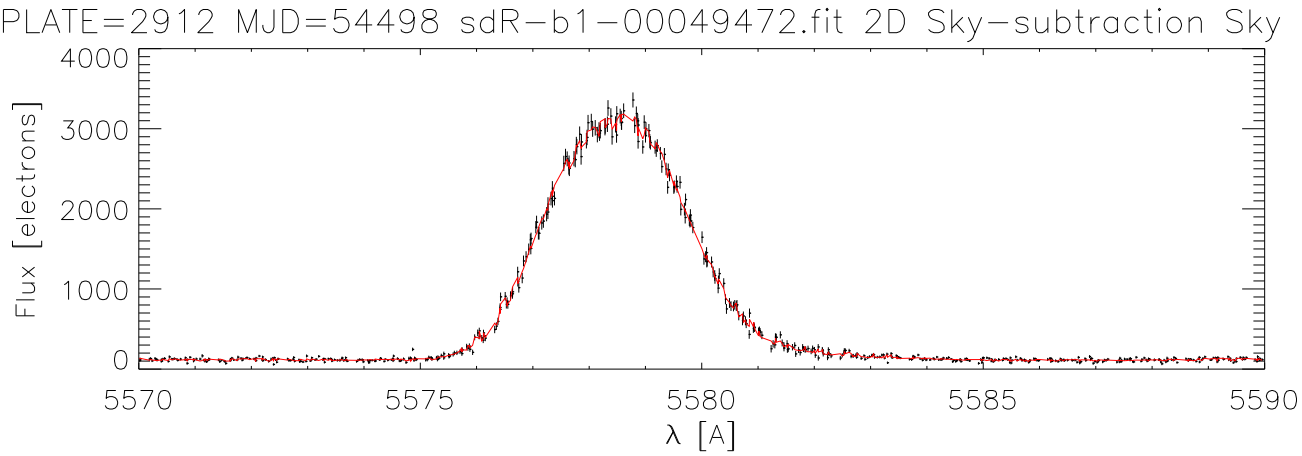

PLATE=2912 MJD=54498 sdR-b1-00049472.fit 1D Sky-subtraction Sky Fiber
Median χ^2
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
30
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

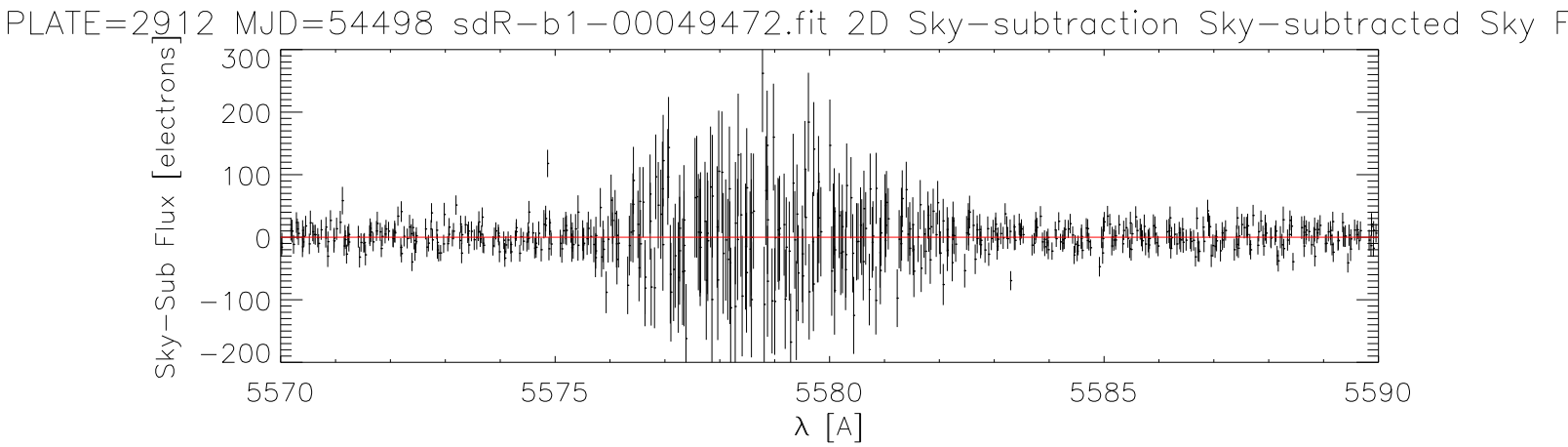

PLATE=2912 MJD=54498 sdR-b1-00049472.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

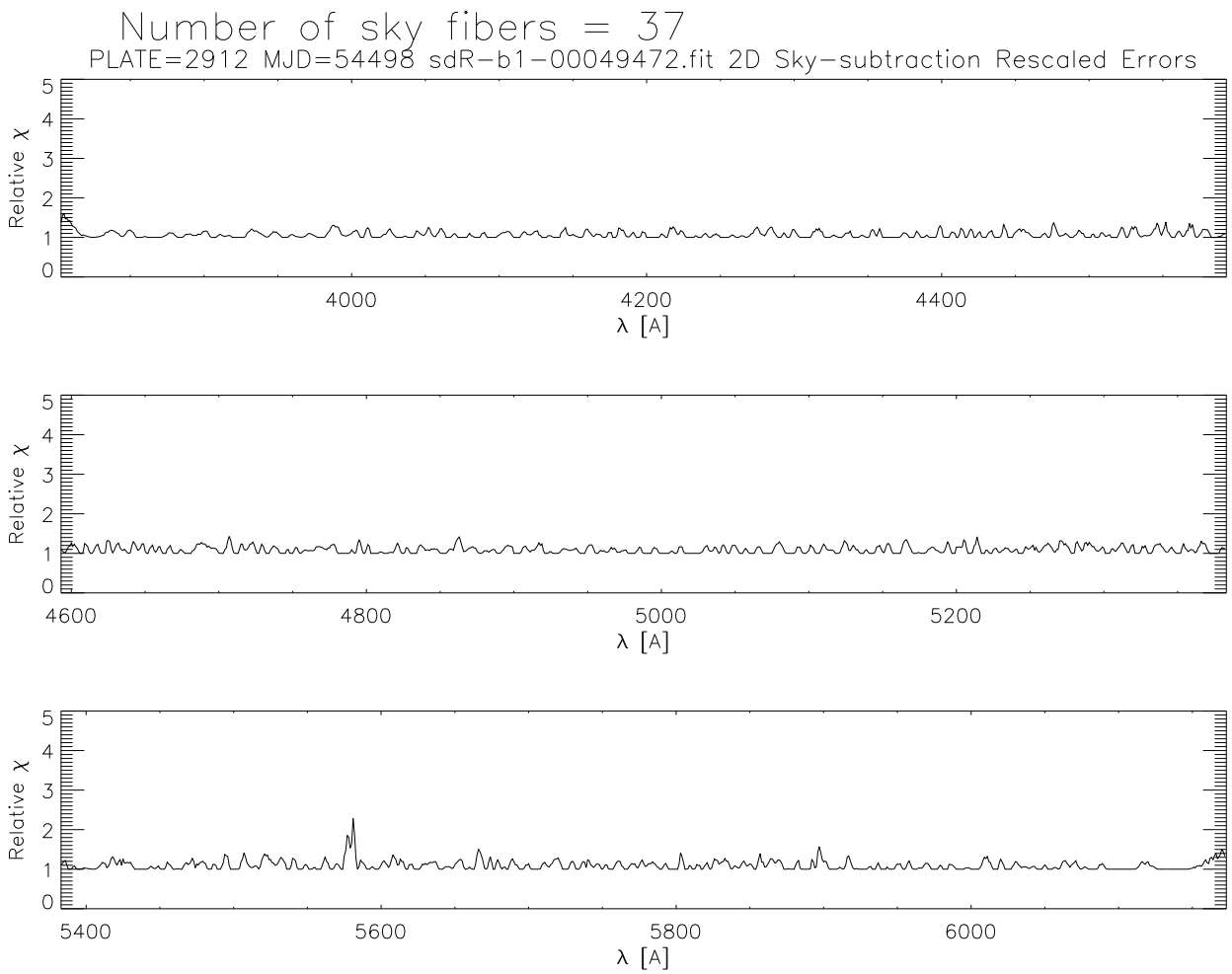

PLATE=2912 MJD=54498 sdR-b1-00049472.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

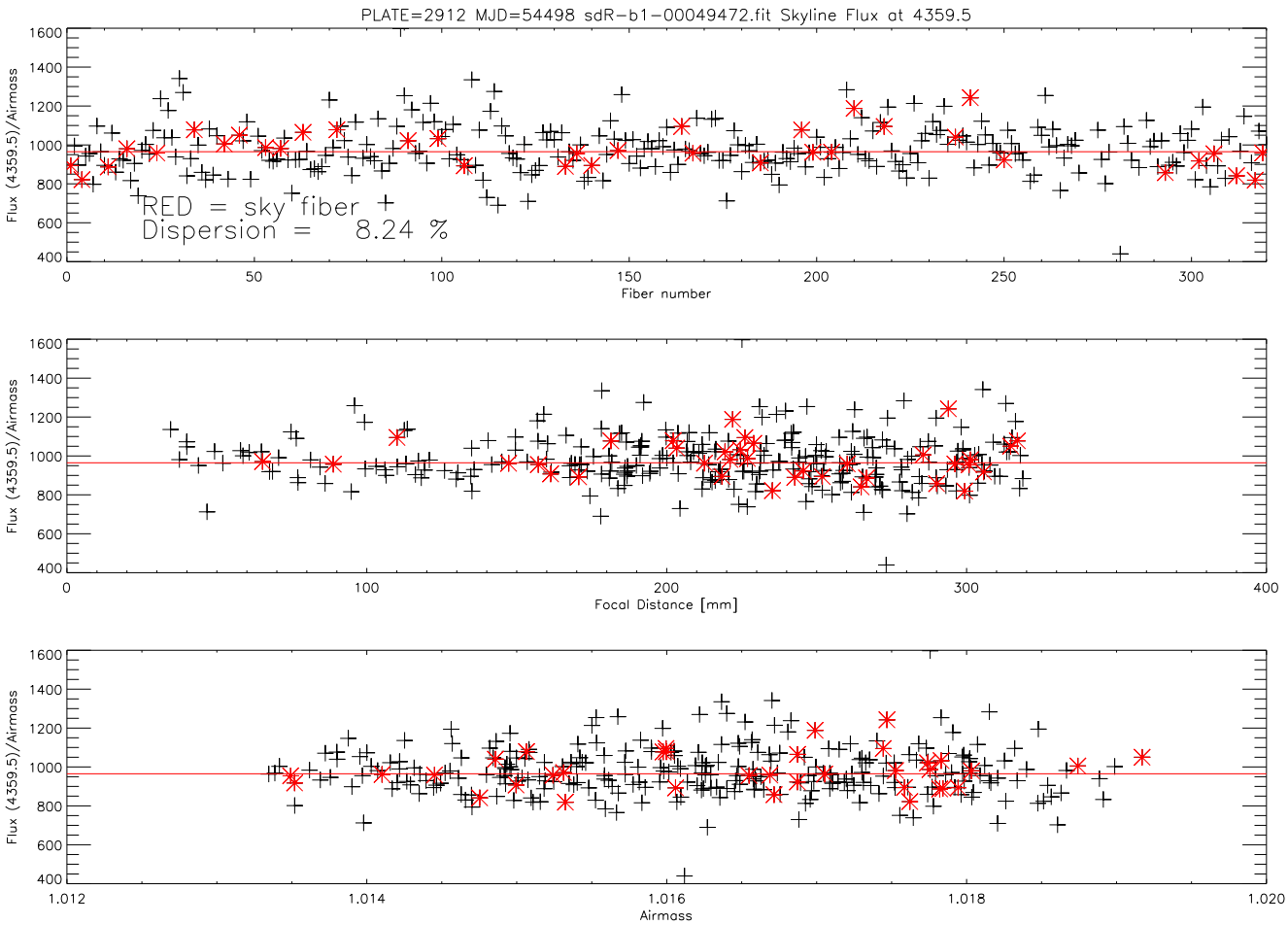

Number of sky fibers = 37
PLATE=2912 MJD=54498 sdR-b1-00049472.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

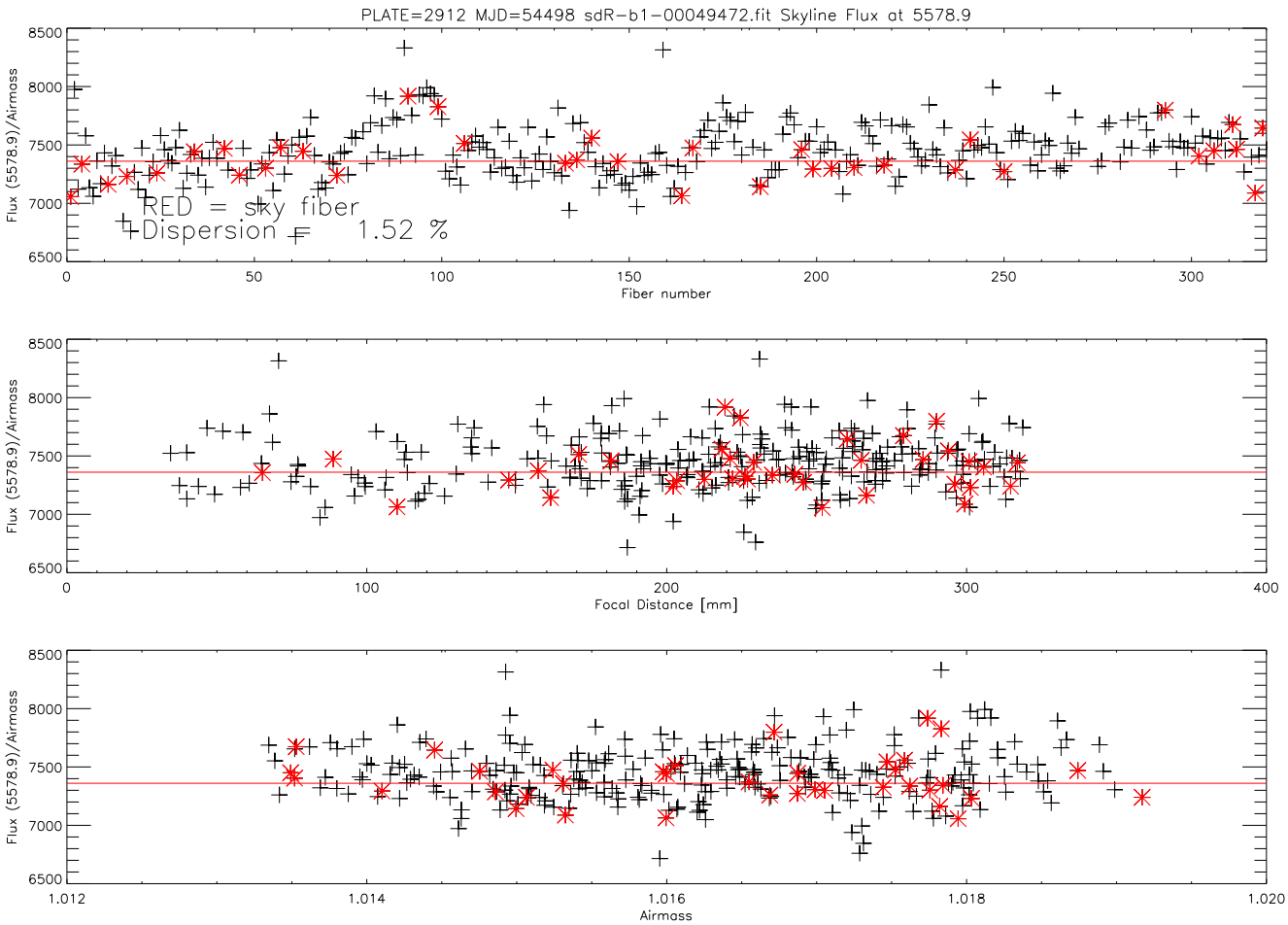

PLATE=2912 MJD=54498 sdR-b1-00049472.fit 2D Sky-subtraction Sky Fiber
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

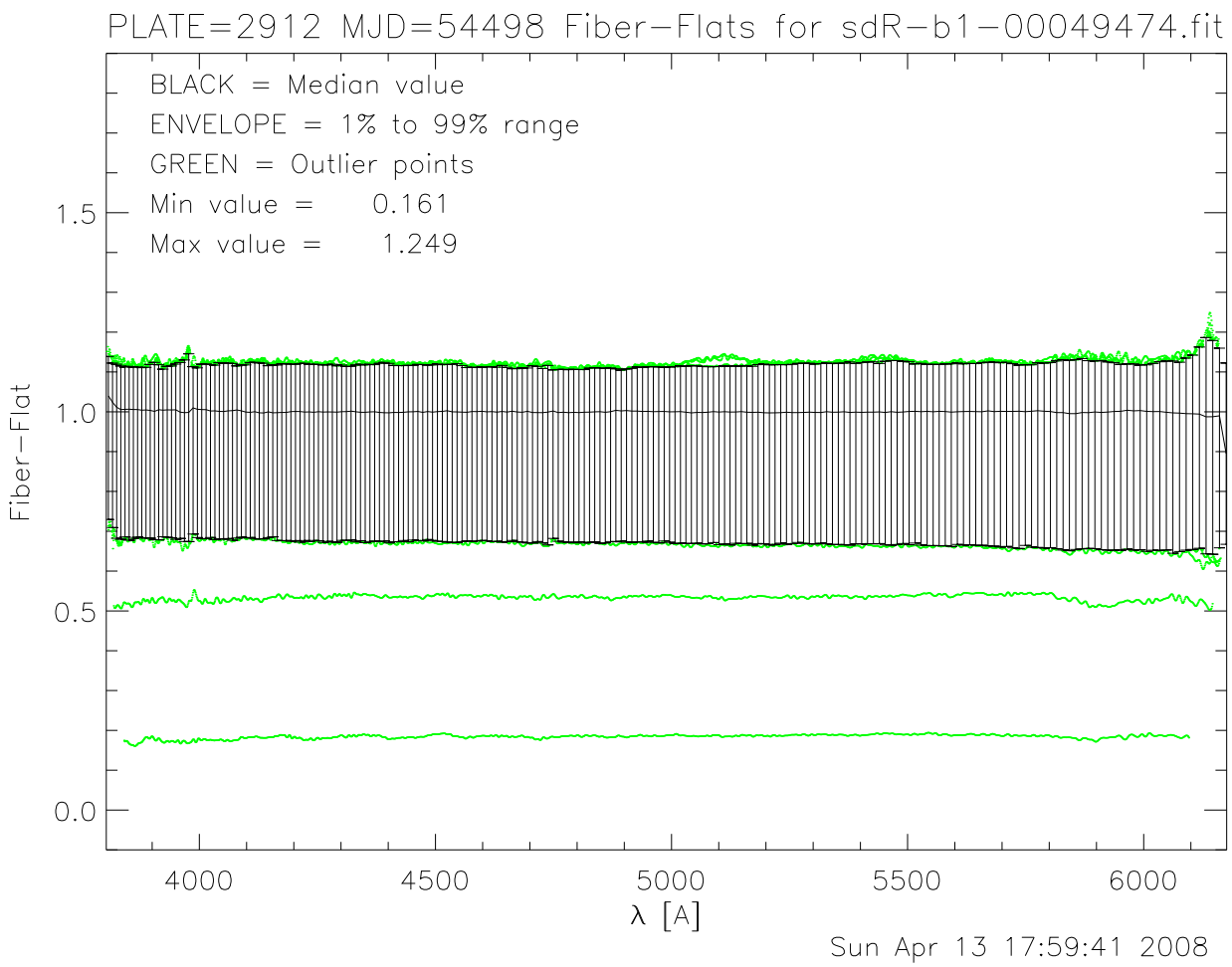

PLATE=2912 MJD=54498 sdR-b1-00049472.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

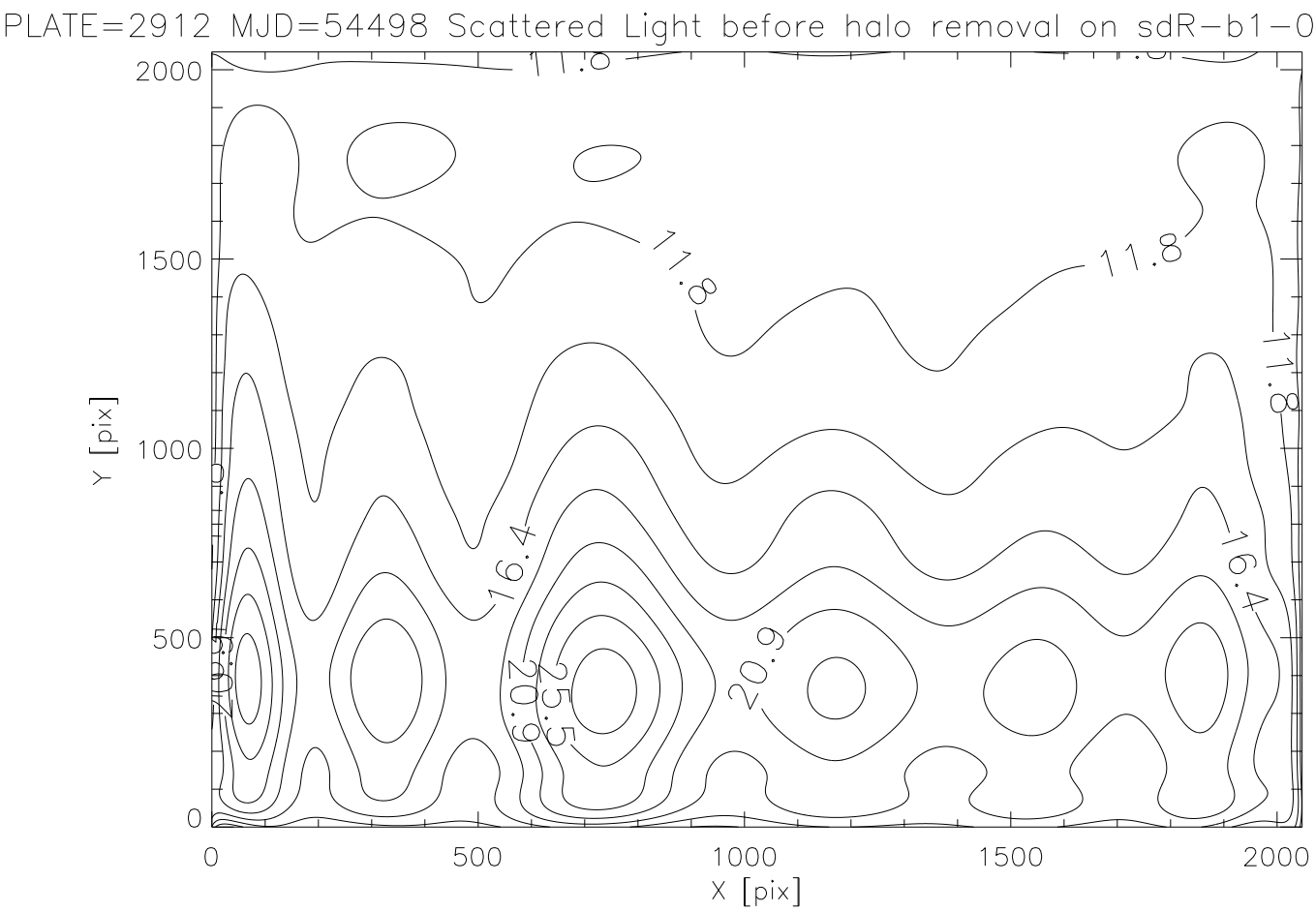

PLATE=2912 MJD=54498 sdR-b1-00049472.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

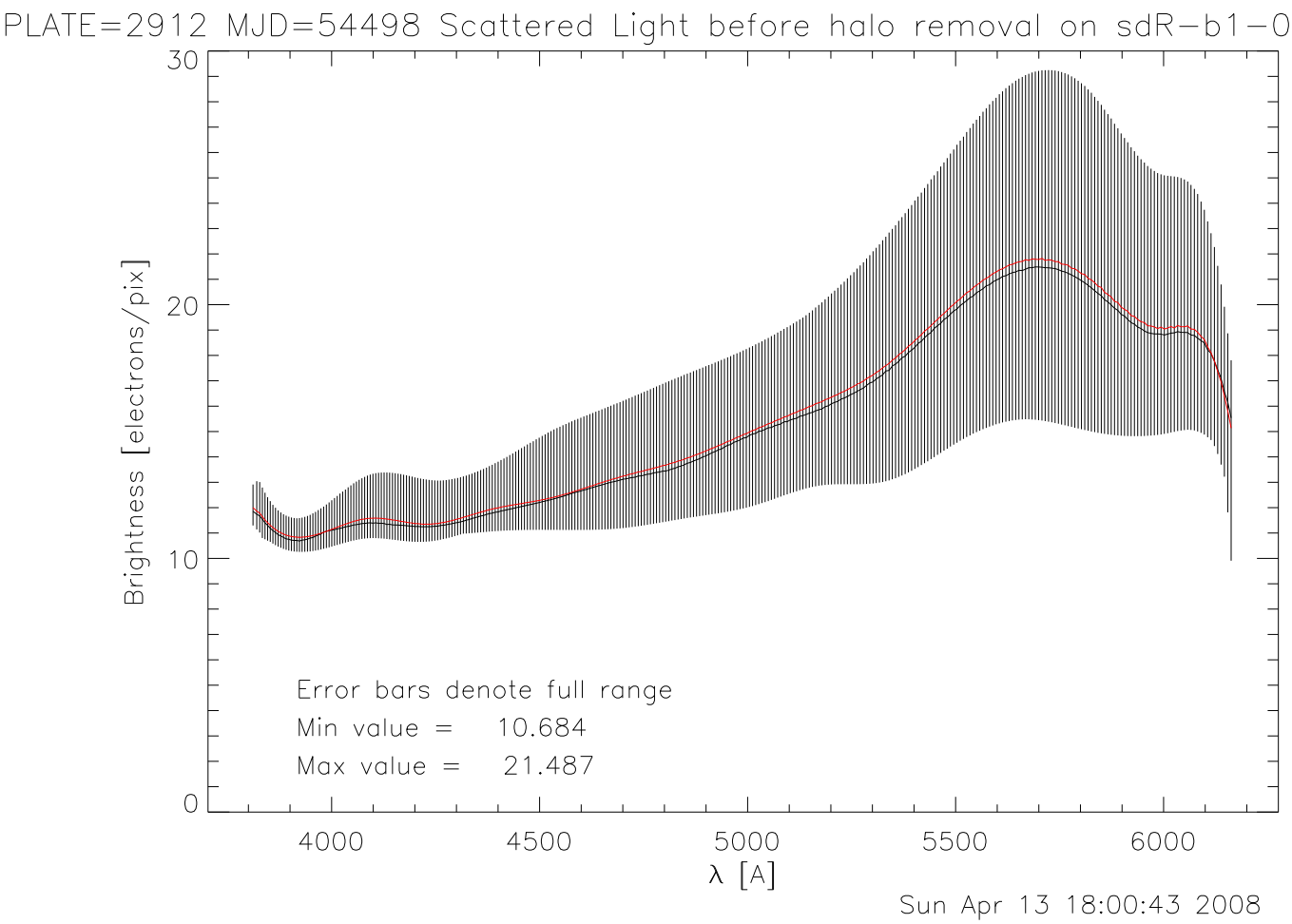

Number of sky fibers = 37
PLATE=2912 MJD=54498 sdR-b1-00049472.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

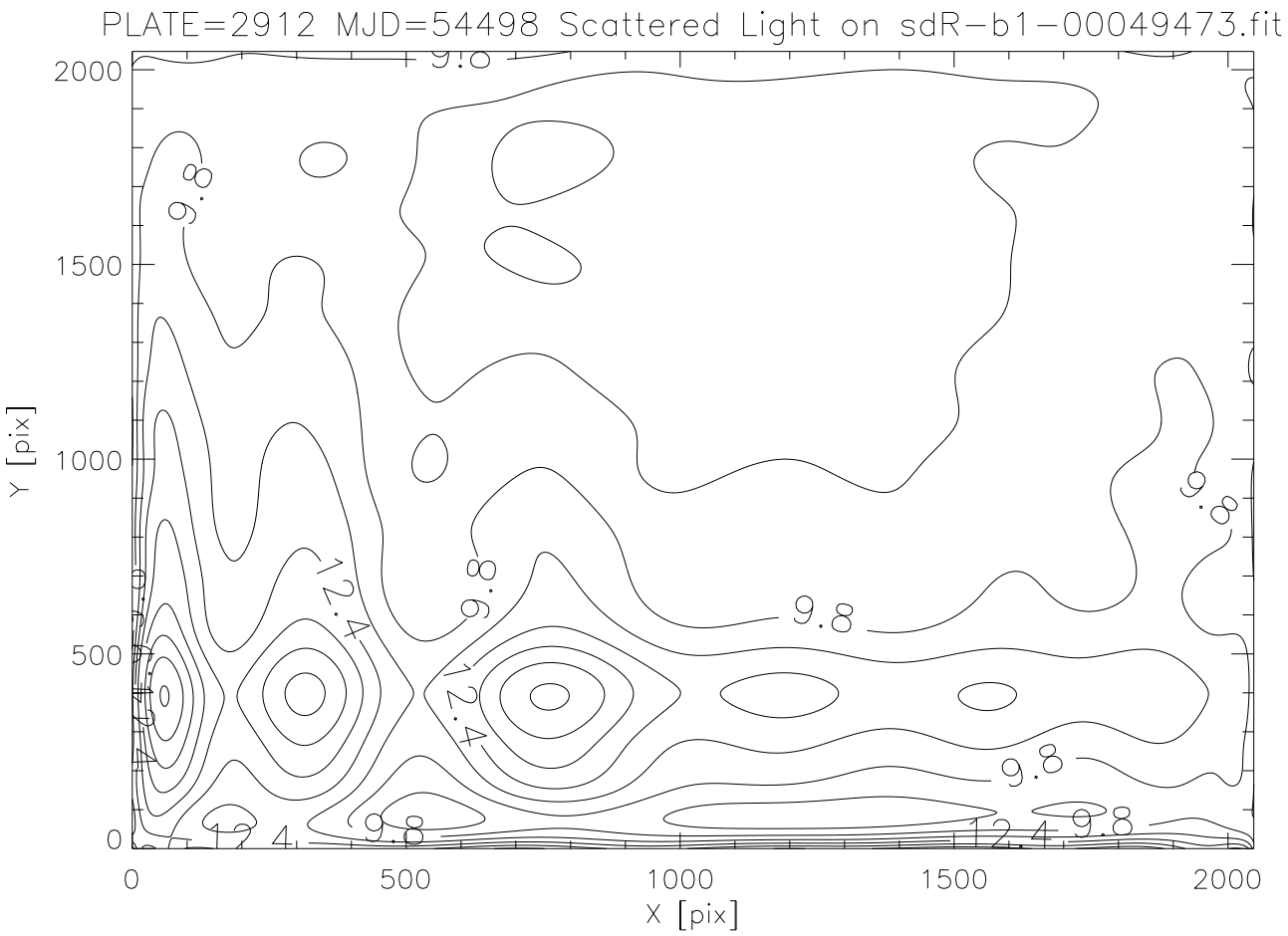

PLATE=2912 MJD=54498 sdR-b1-00049472.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.24 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

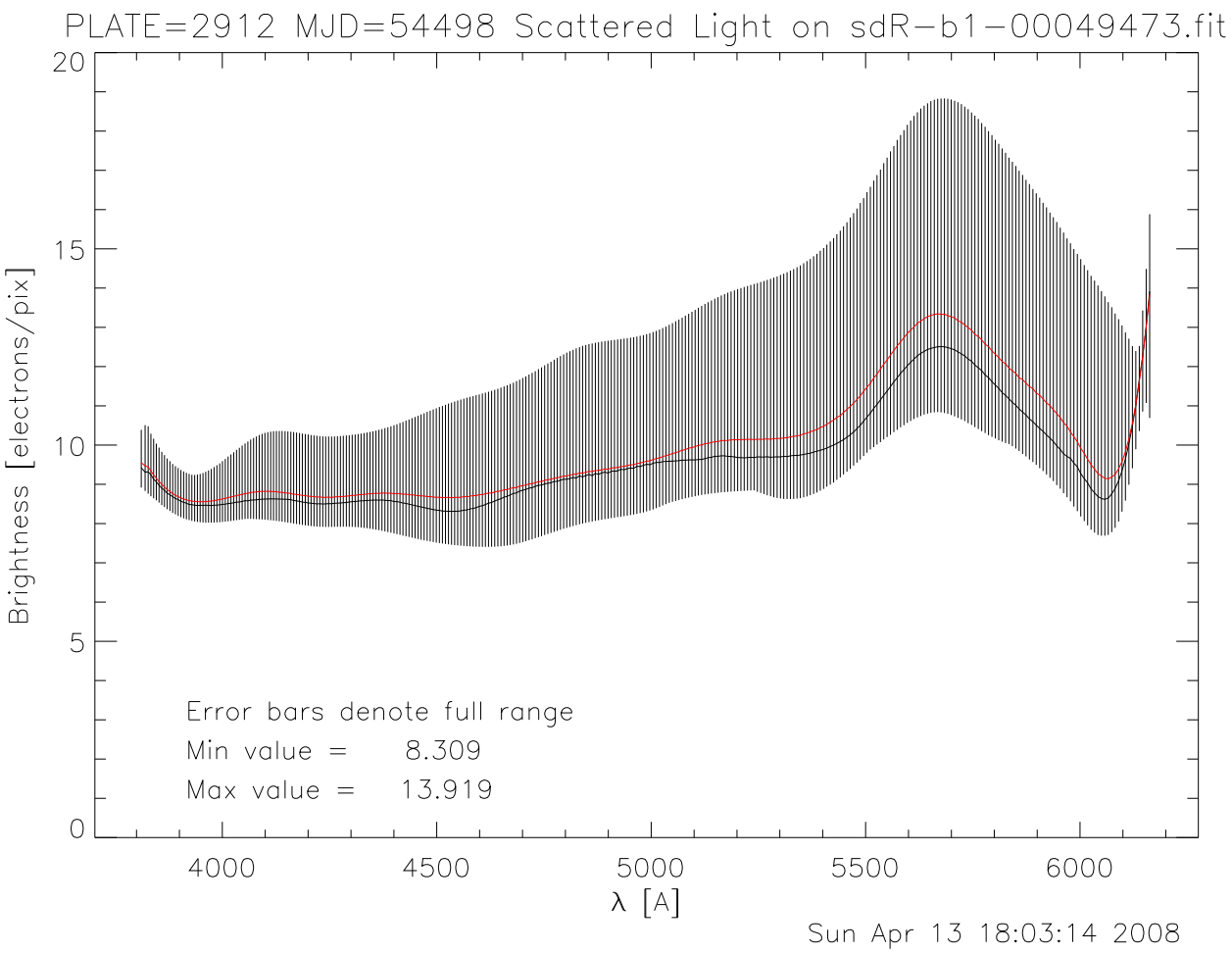

PLATE=2912 MJD=54498 sdR-b1-00049472.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.52 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

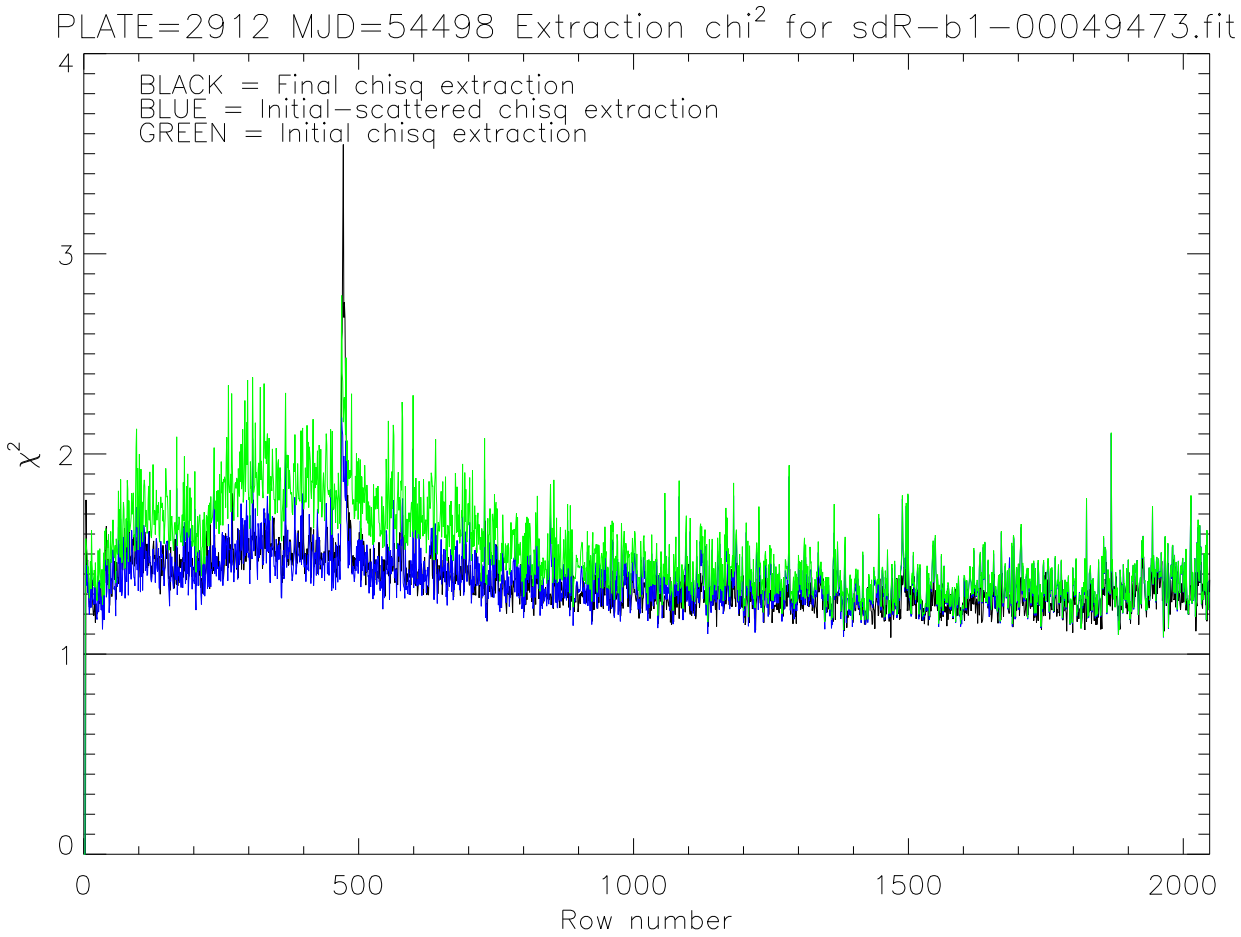

PLATE=2912 MJD=54498 Fiber-Flats for sdR-b1-00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.161
Max value = 1.249
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 17:59:41 2008

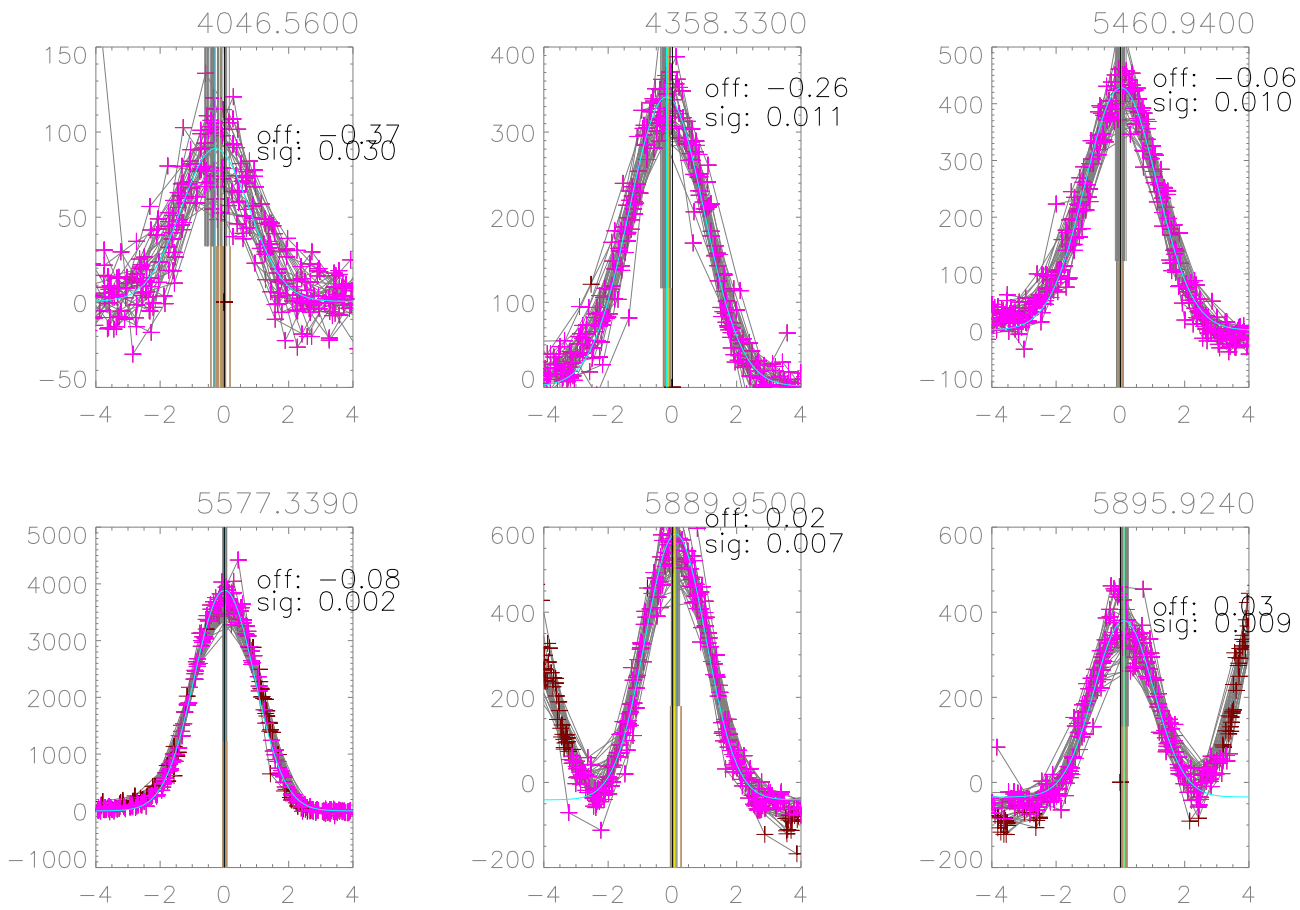

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR−b1−00049473.f
11.8
11.8
11.8
11.8
16.4
16.4
20.9
20.9
25.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

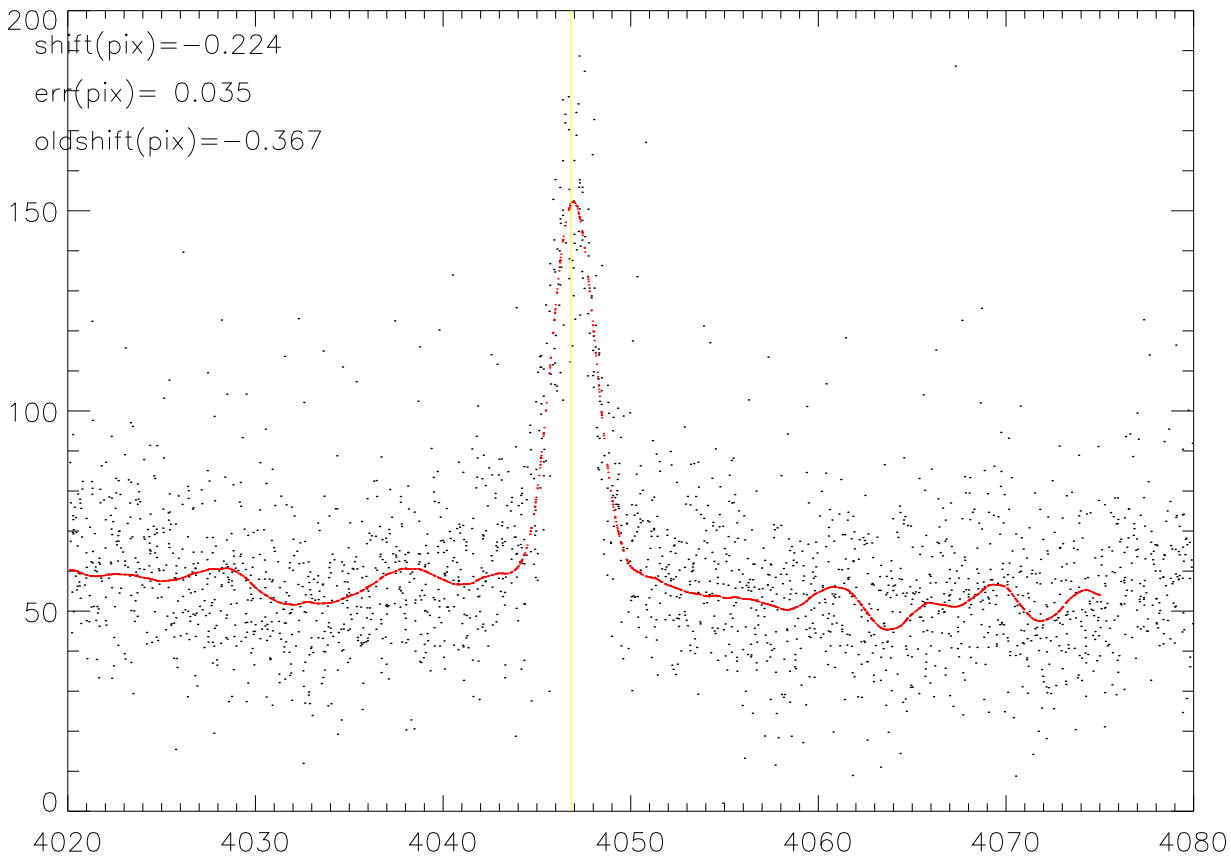

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-b1-00049473.f
Brightness [electrons/pix]
30
20
10
0
Error bars denote full range
Min value = 10.684
Max value = 21.487
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 18:00:43 2008

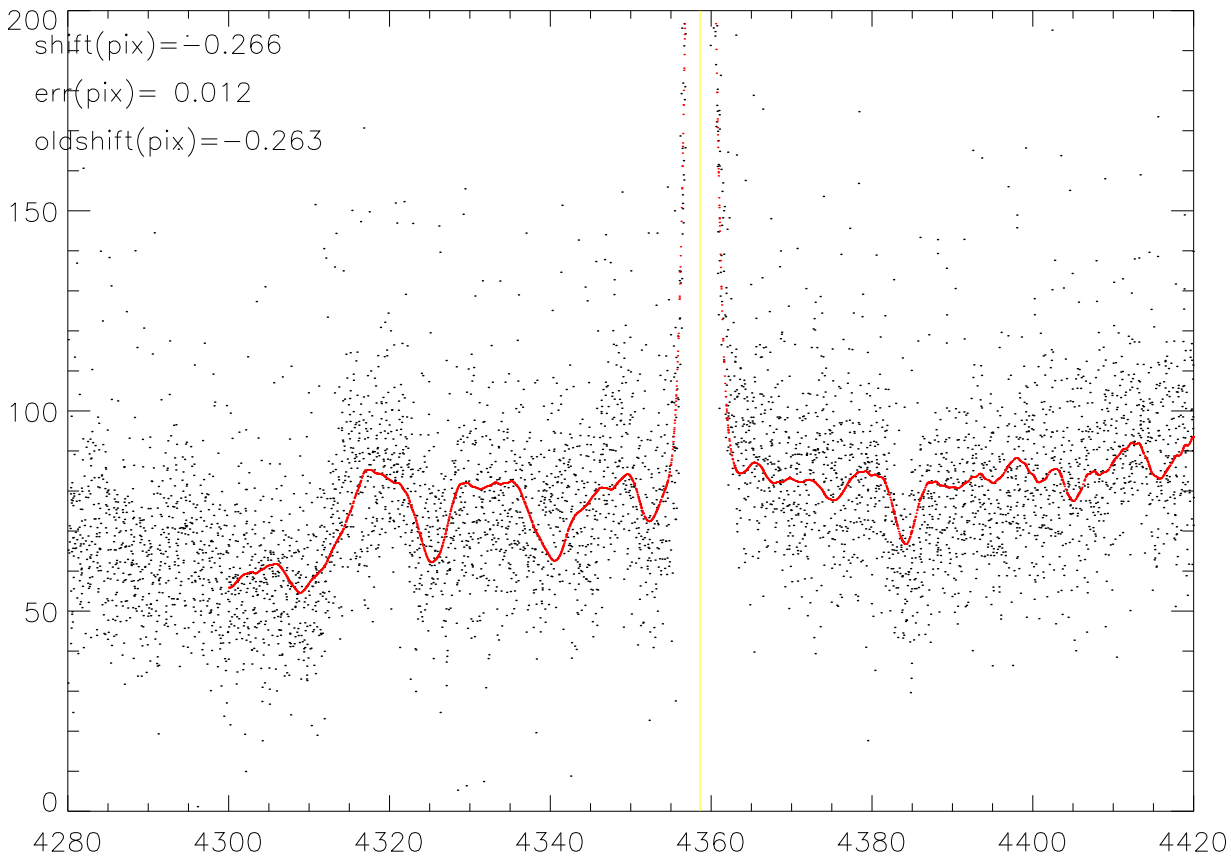

PLATE=2912 MJD=54498 Scattered Light on sdR-b1-00049473.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.8
12.4

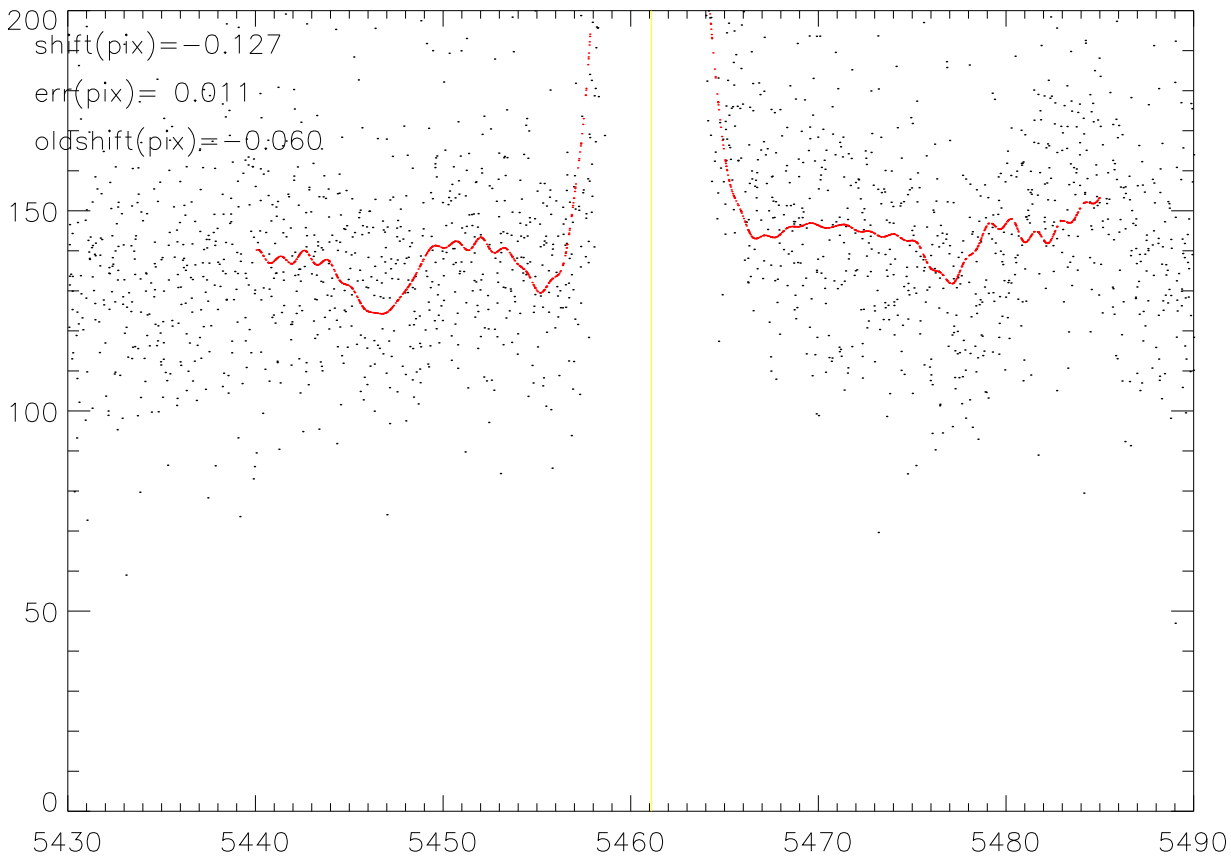

PLATE=2912 MJD=54498 Scattered Light on sdR-b1-00049473.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.309
Max value = 13.919
Sun Apr 13 18:03:14 2008

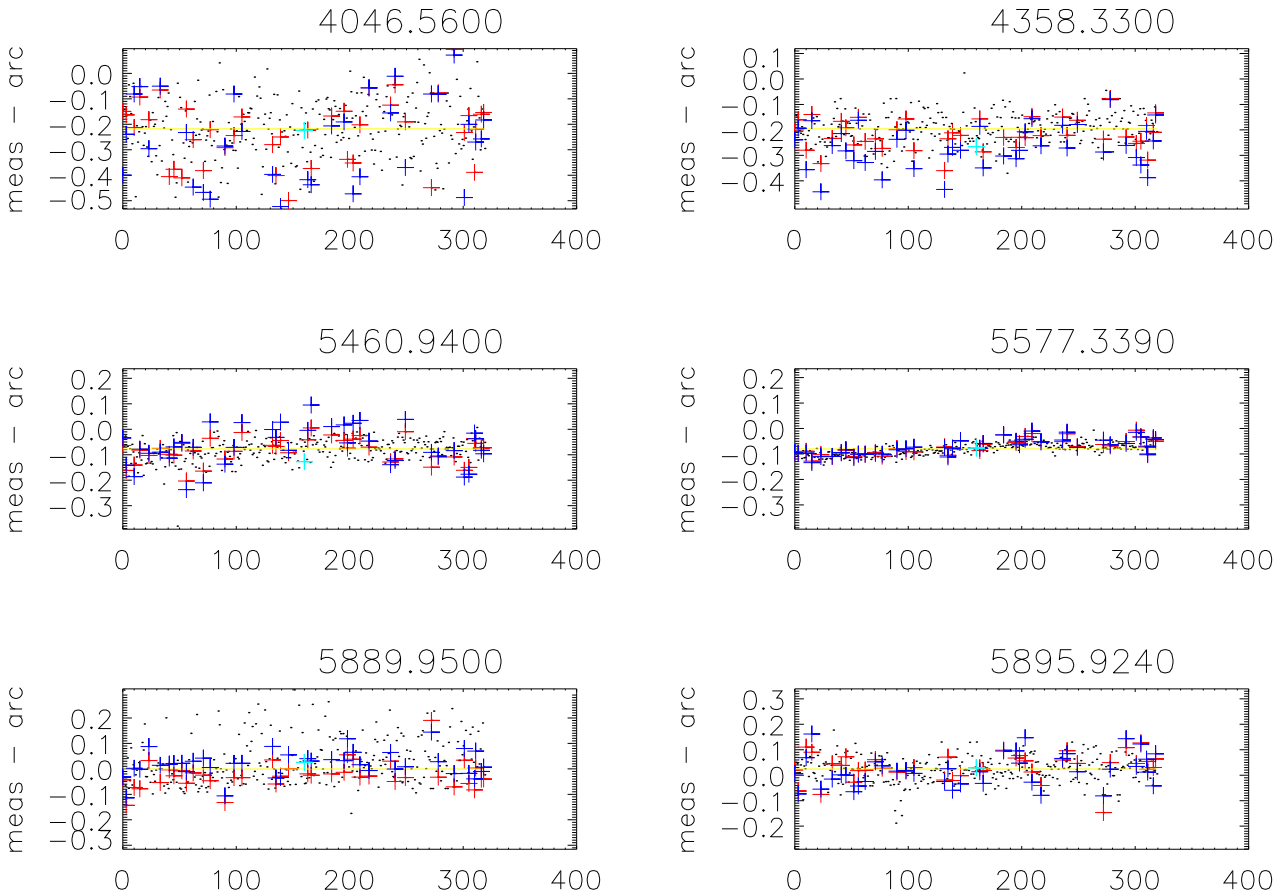

PLATE=2912 MJD=54498 Extraction chi^2 for sdR-b1-00049473.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

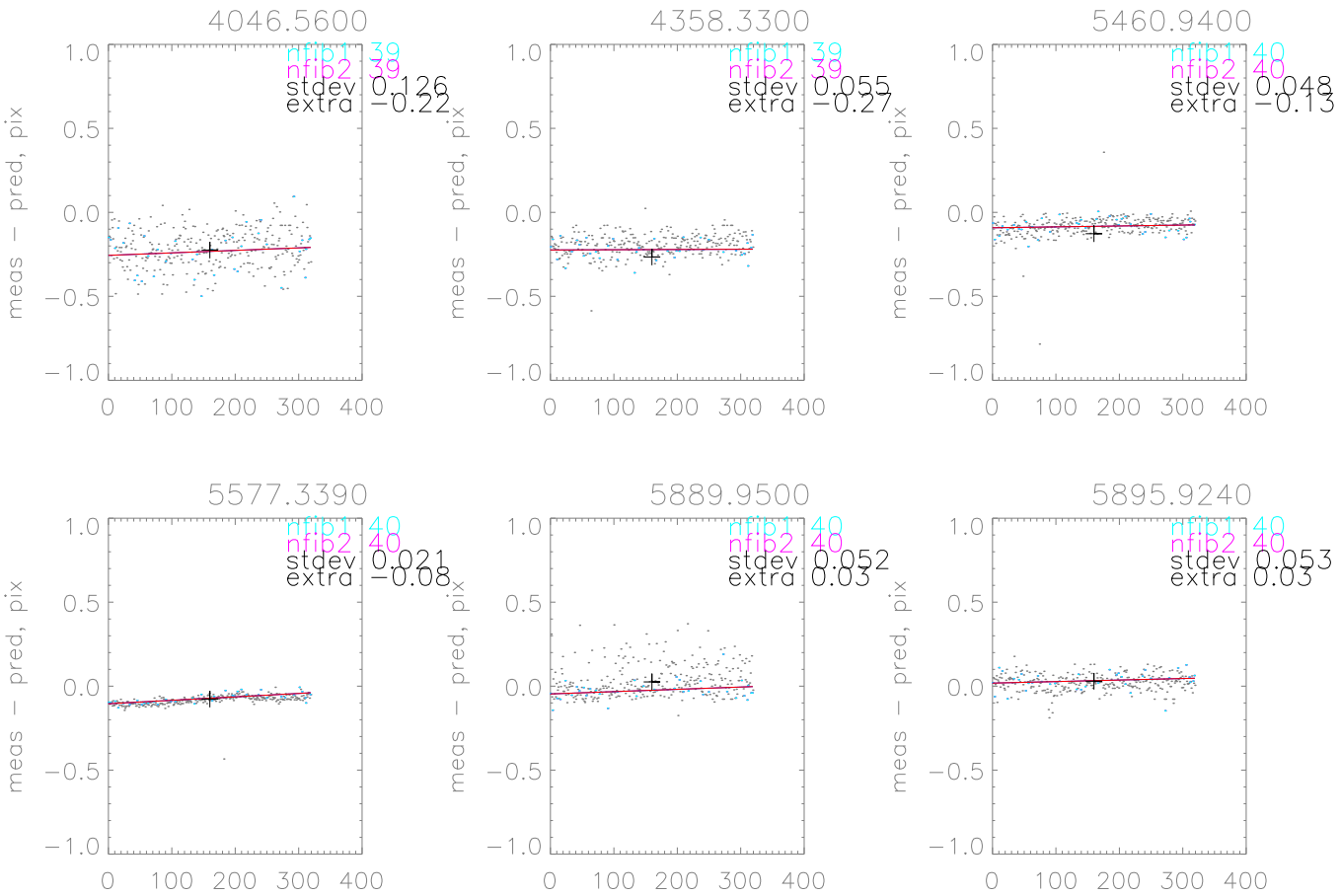

4046.5600
off: −0.37
sig: 0.030
4358.3300
off: −0.26
sig: 0.011
5460.9400
off: −0.06
sig: 0.010
5577.3390
off: −0.08
sig: 0.002
5889.9500
off: 0.02
sig: 0.007
5895.9240
off: 0.03
sig: 0.009

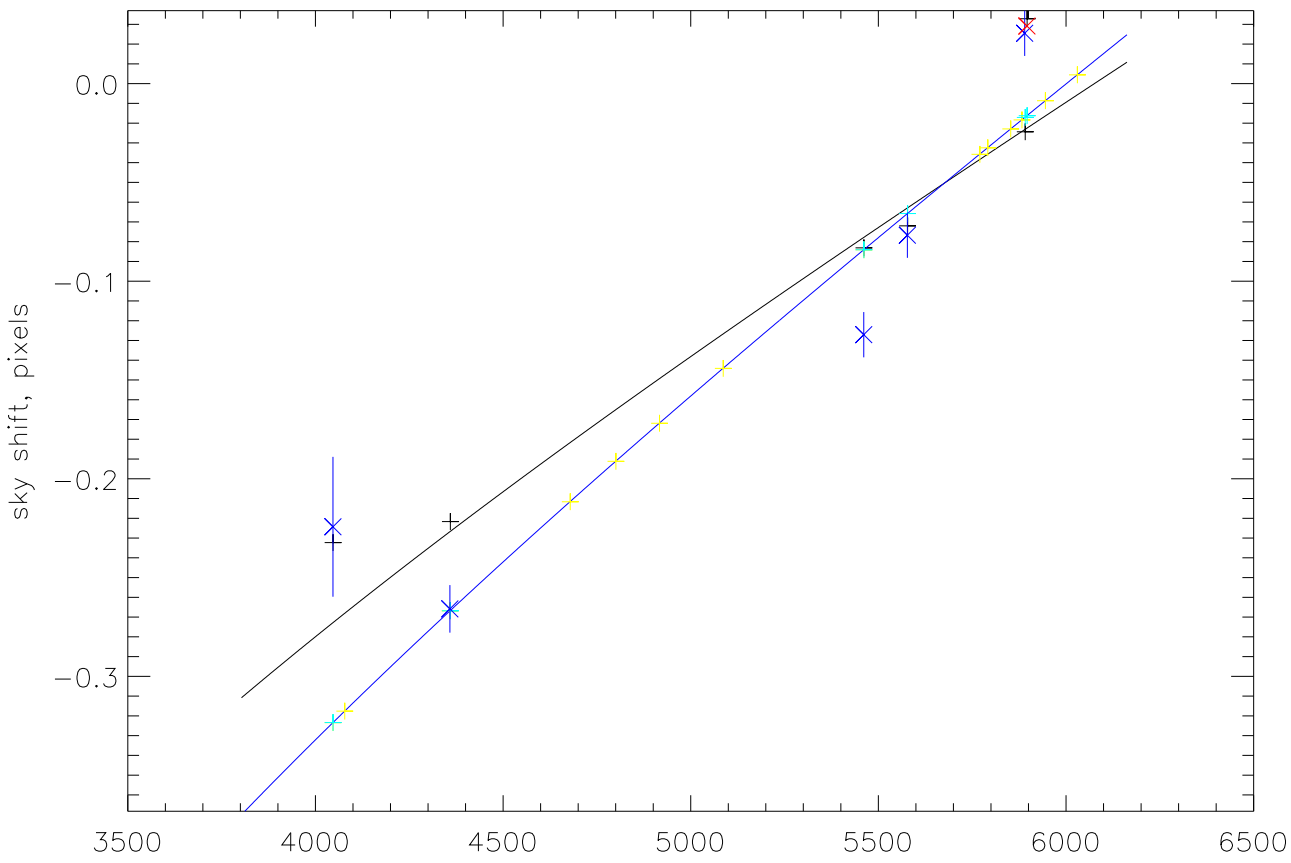

shift(pix)=−0.224
err(pix)= 0.035
oldshift(pix)=−0.367
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

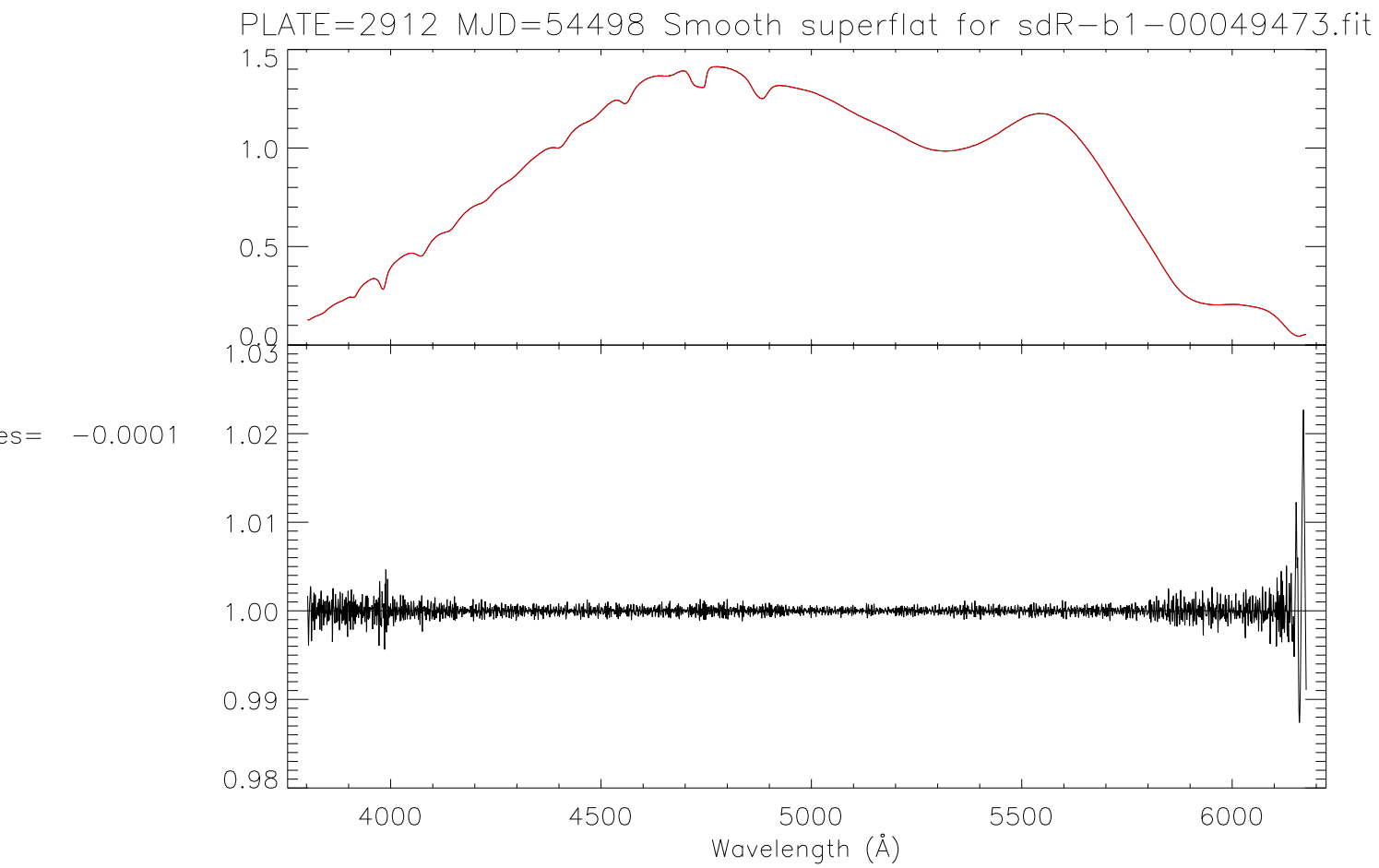

shift(pix)=−0.266
err(pix)= 0.012
oldshift(pix)=−0.263
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420


shift(pix)=−0.127
err(pix)= 0.011
oldshift(pix)=−0.060
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

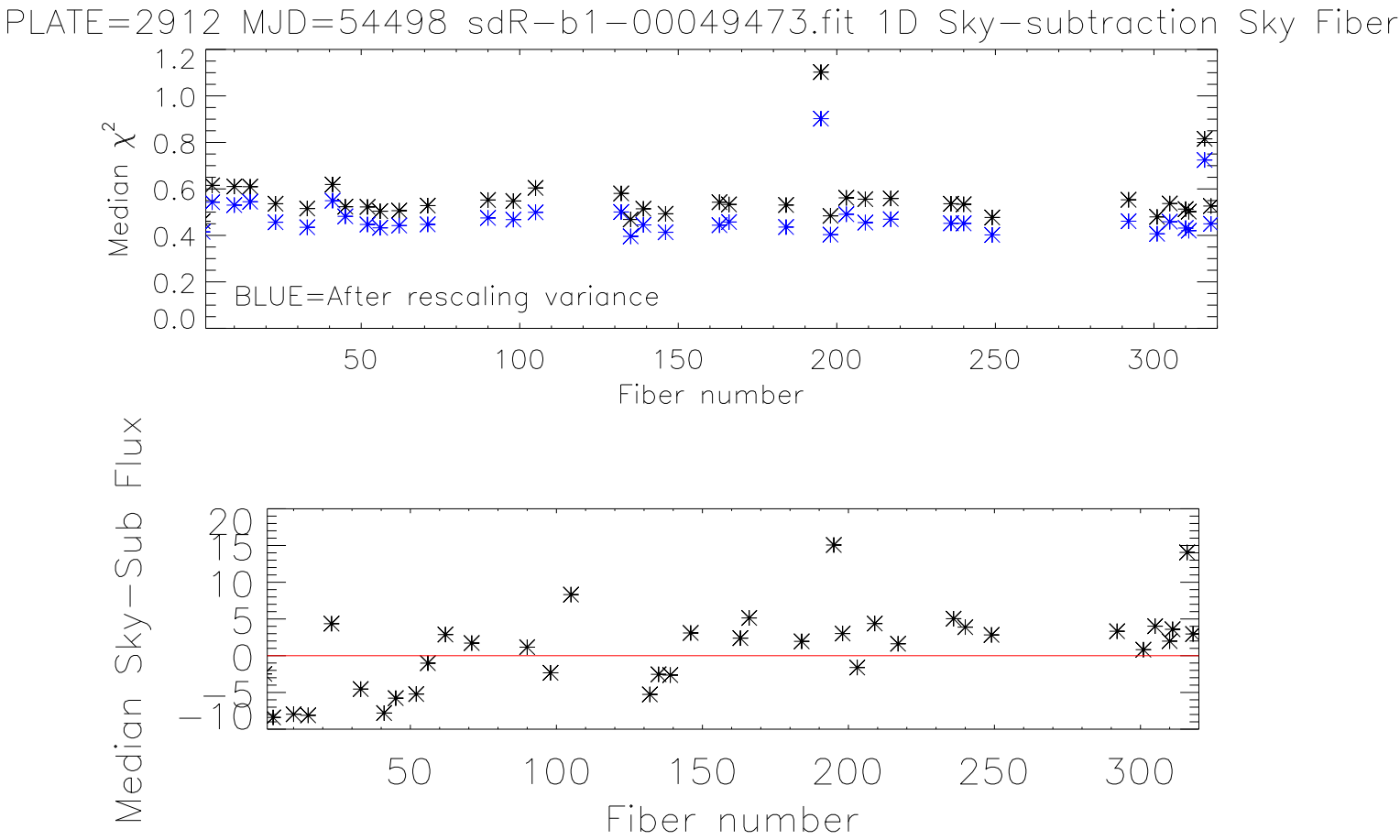

4046.5600
4358.3300
5460.9400
5577.3390
5889.9500
5895.9240
meas − arc
0
100
200
300
400

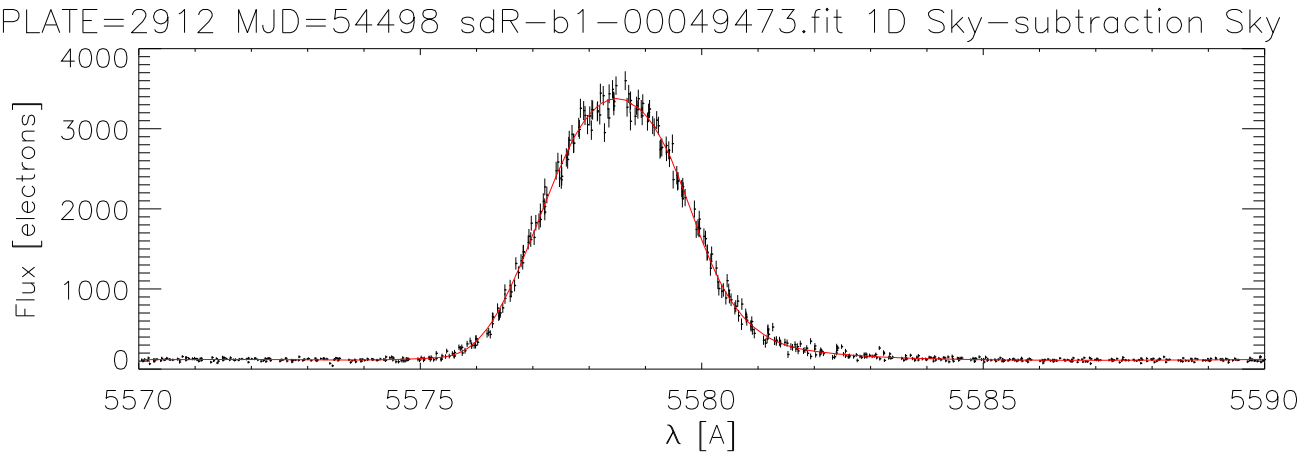

4046.5600
nfib1 39
nfib2 39
stdev 0.126
extra −0.22
4358.3300
nfib1 39
nfib2 39
stdev 0.055
extra −0.27
5460.9400
nfib1 40
nfib2 40
stdev 0.048
extra −0.13
5577.3390
nfib1 40
nfib2 40
stdev 0.021
extra −0.08
5889.9500
nfib1 40
nfib2 40
stdev 0.052
extra 0.03
5895.9240
nfib1 40
nfib2 40
stdev 0.053
extra 0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

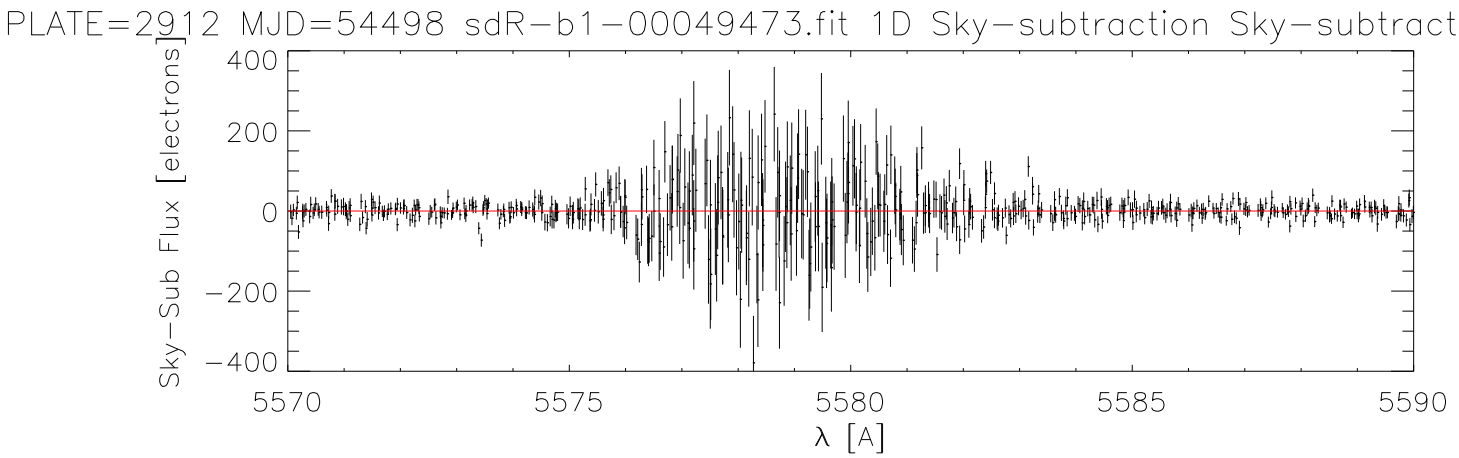

0.0
−0.1
−0.2
−0.3
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

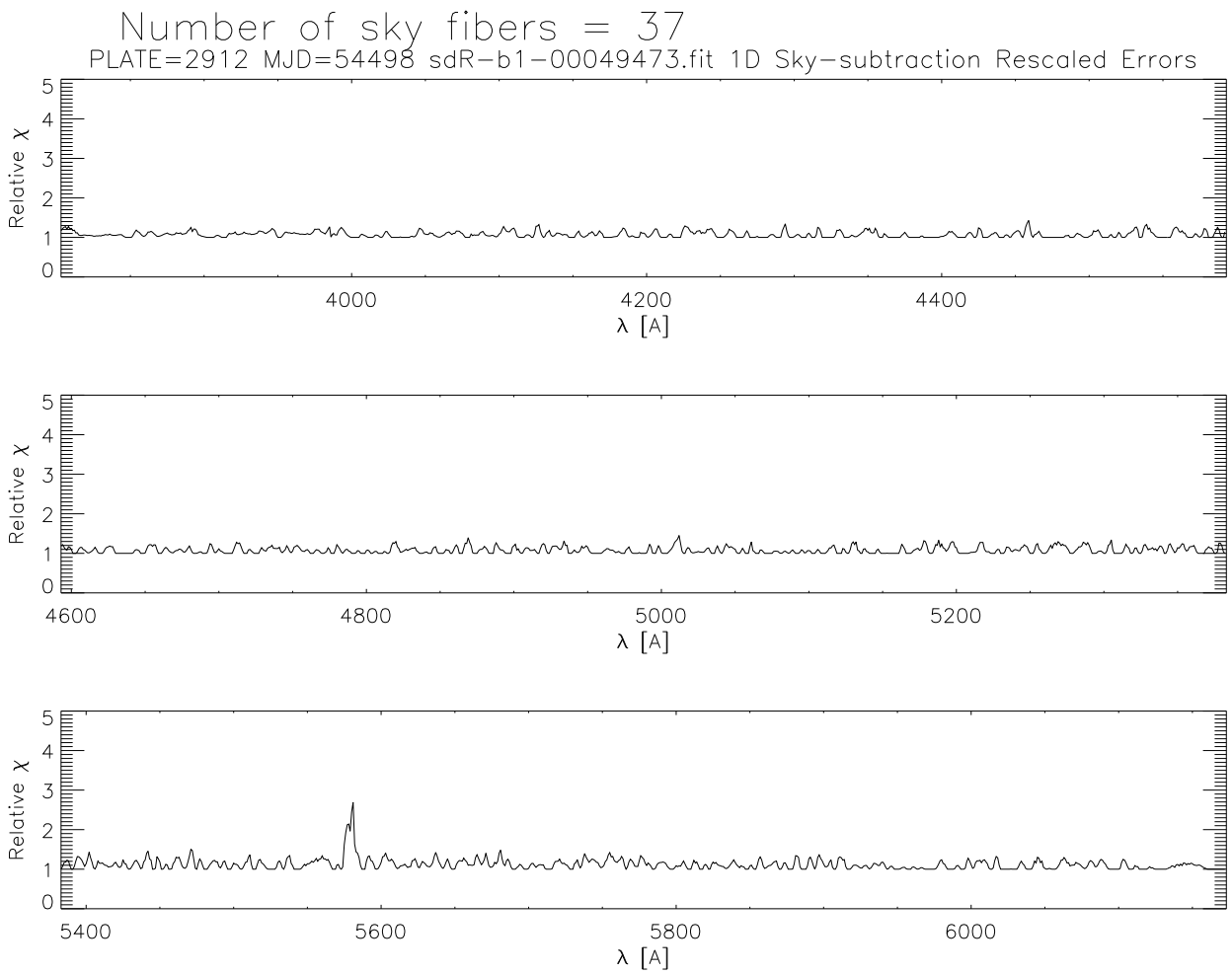

PLATE=2912 MJD=54498 Smooth superflat for sdR-b1-00049473.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

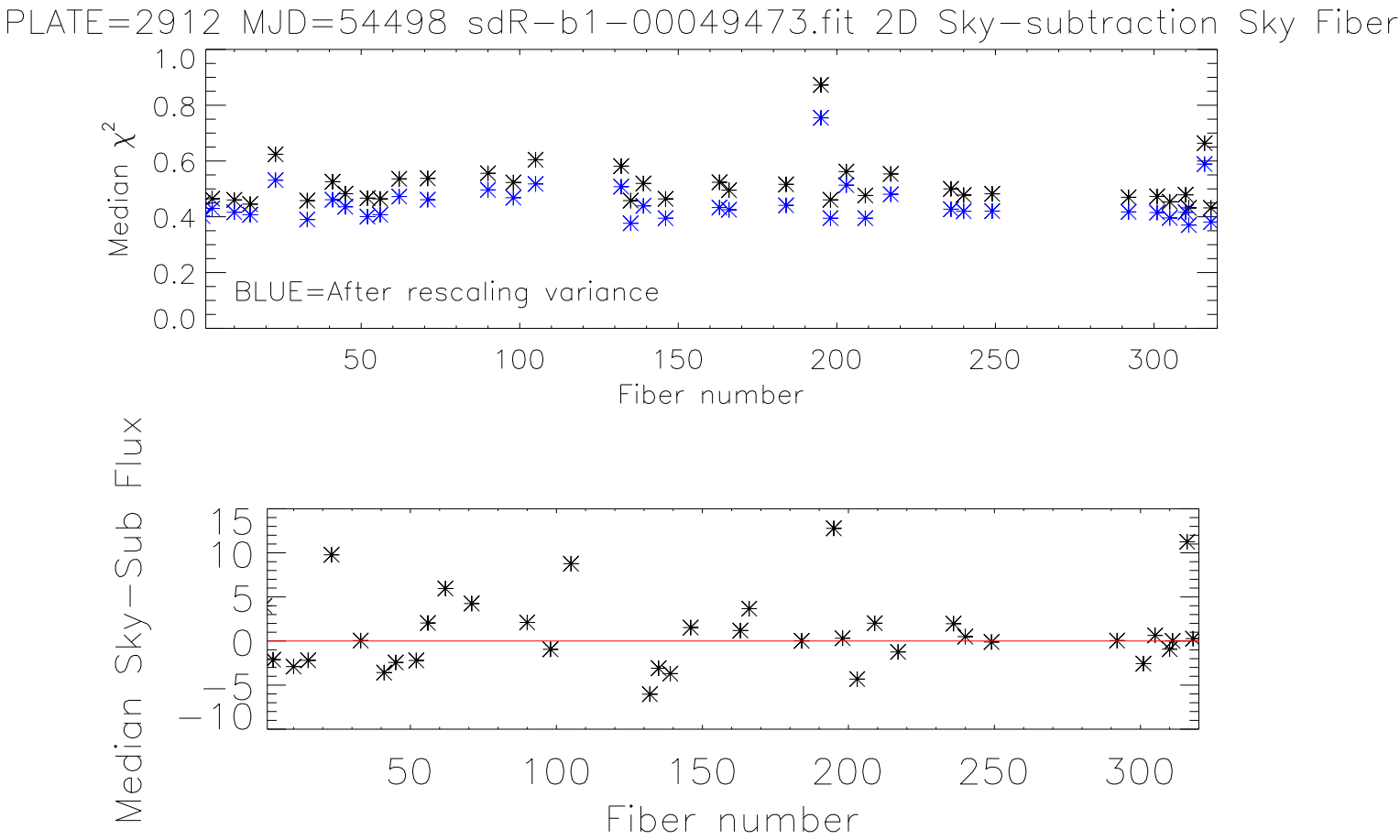
es= −0.0001

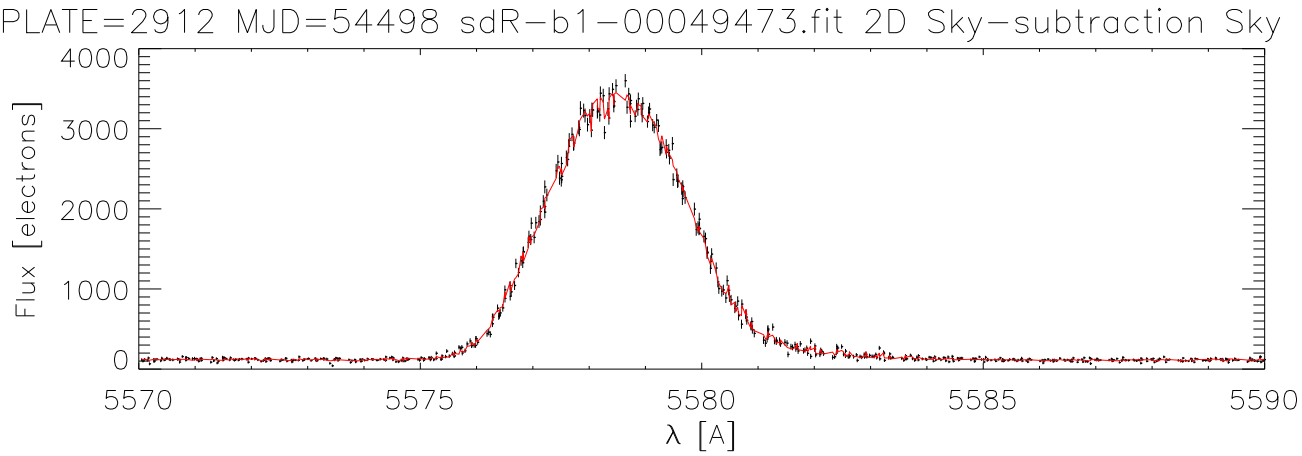

PLATE=2912 MJD=54498 sdR-b1-00049473.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

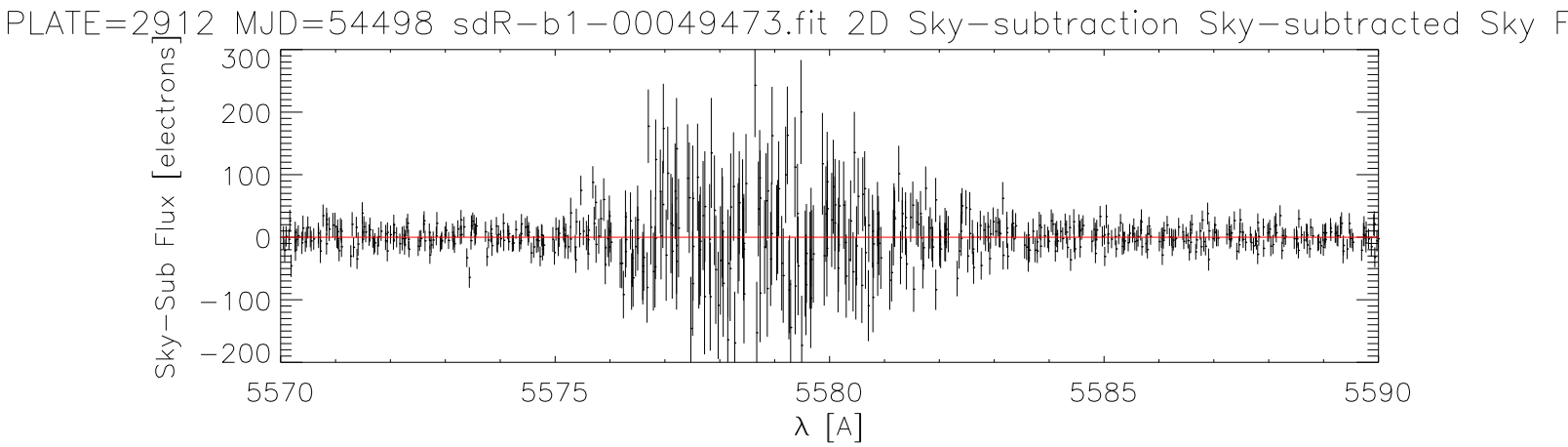

PLATE=2912 MJD=54498 sdR-b1-00049473.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

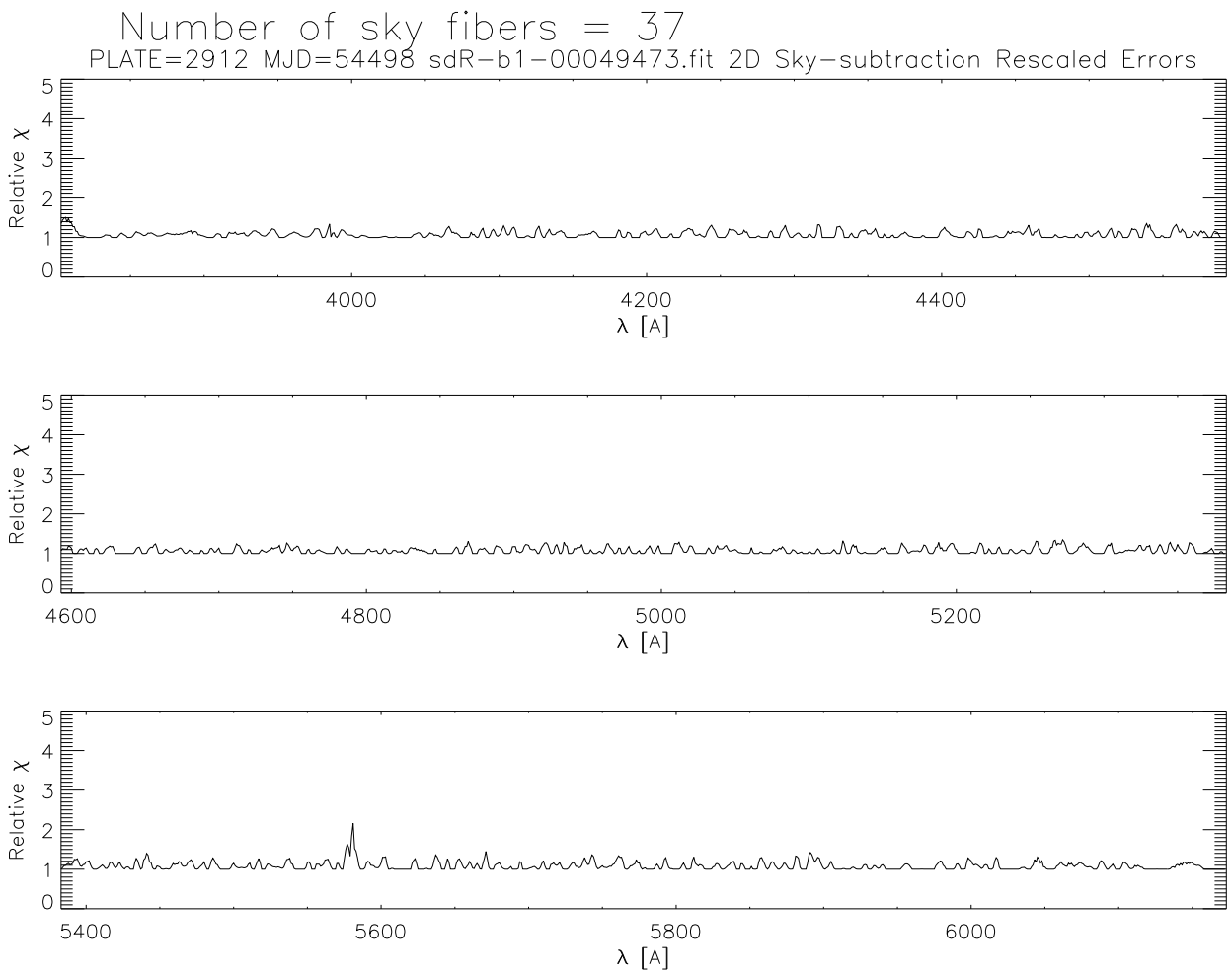

PLATE=2912 MJD=54498 sdR-b1-00049473.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

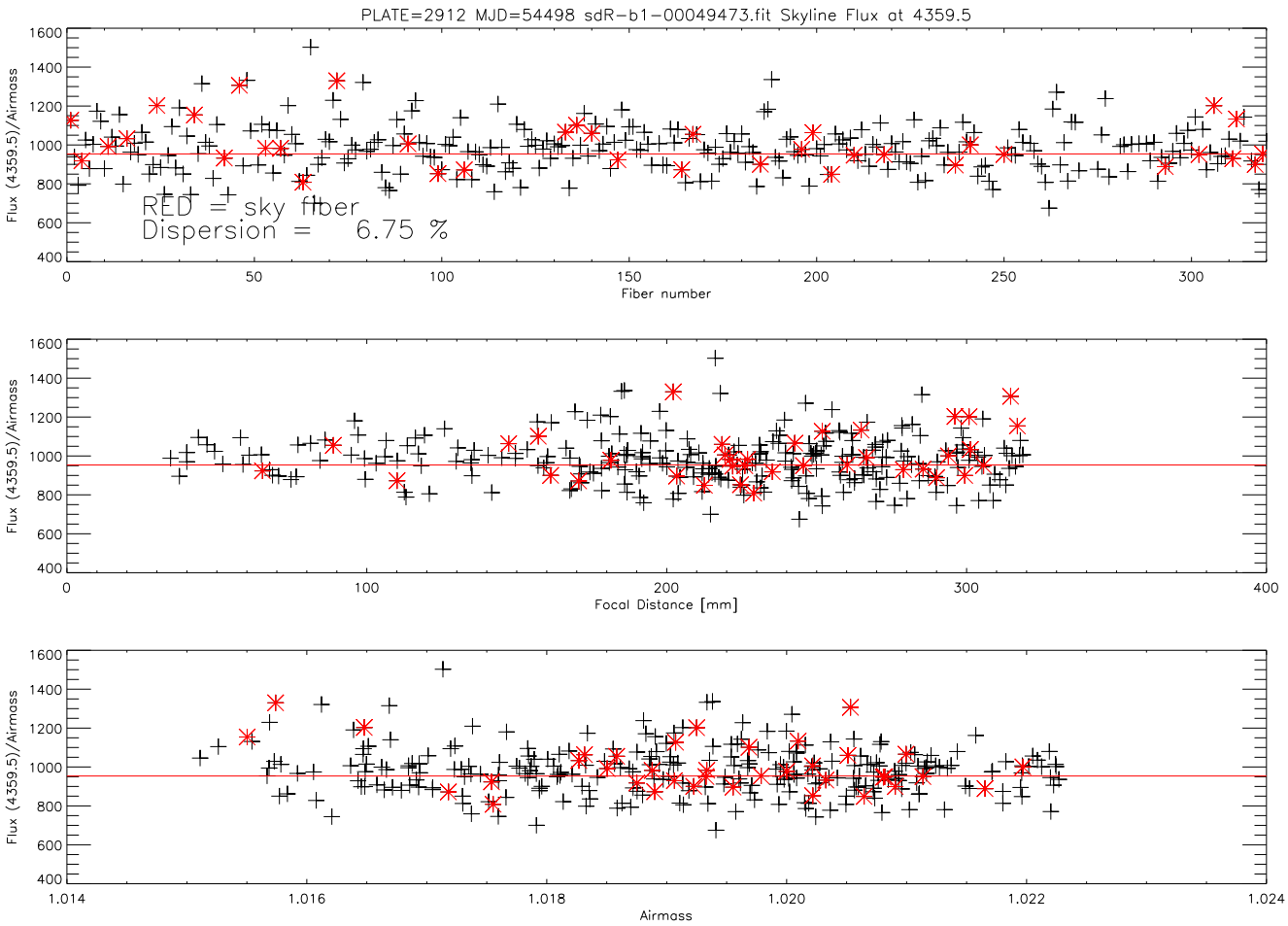

Number of sky fibers = 37
PLATE=2912 MJD=54498 sdR-b1-00049473.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

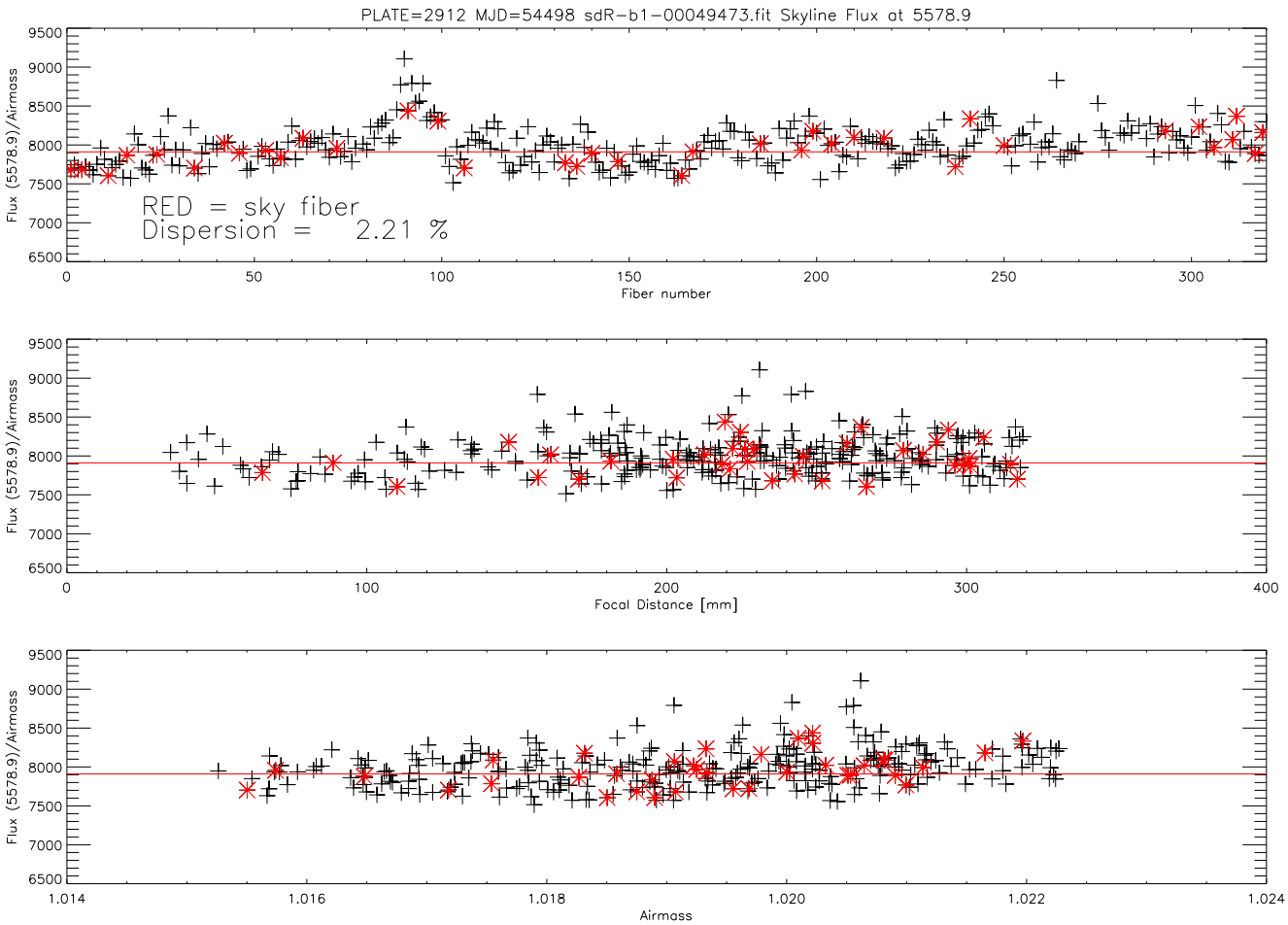

PLATE=2912 MJD=54498 sdR-b1-00049473.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

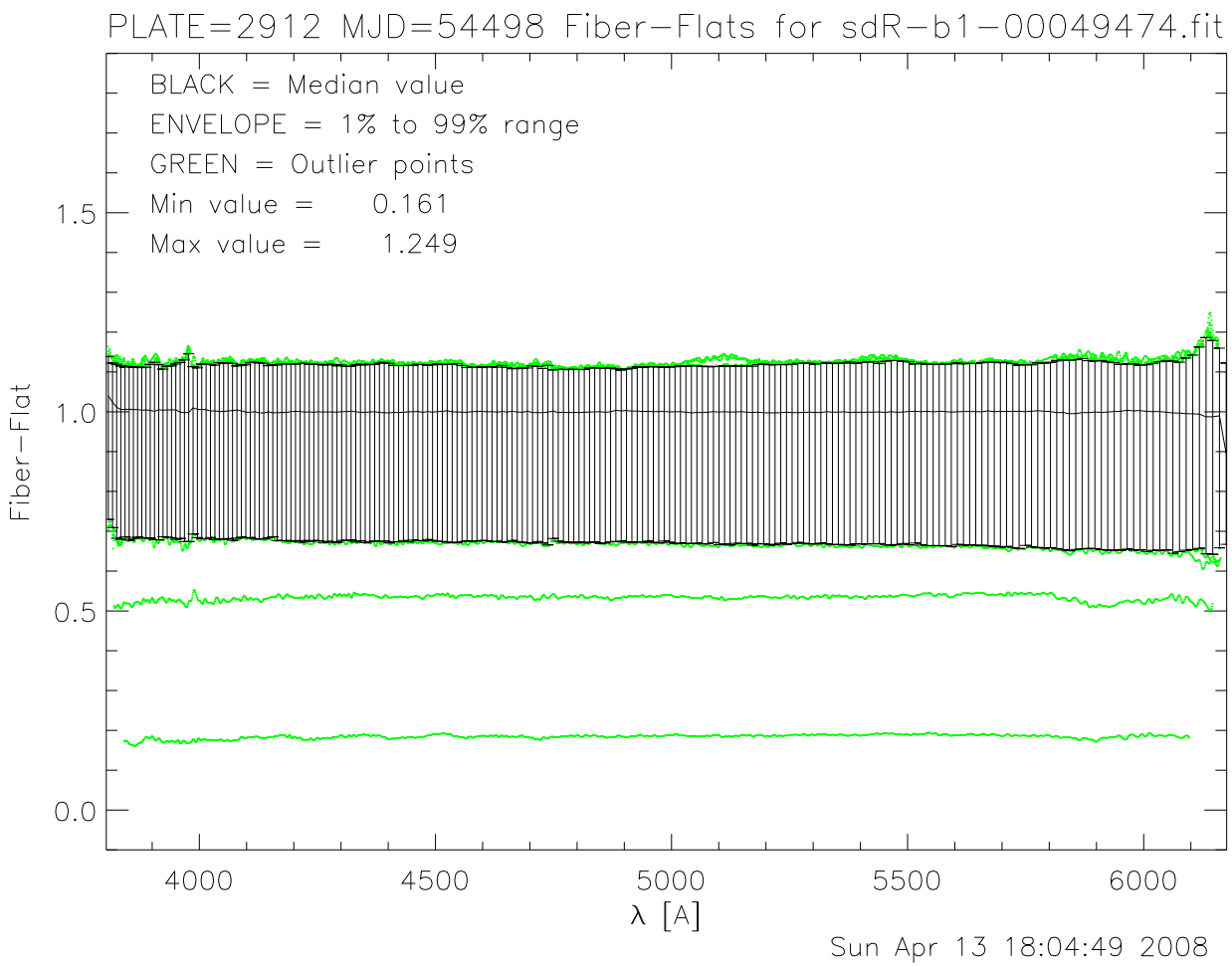

PLATE=2912 MJD=54498 sdR-b1-00049473.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

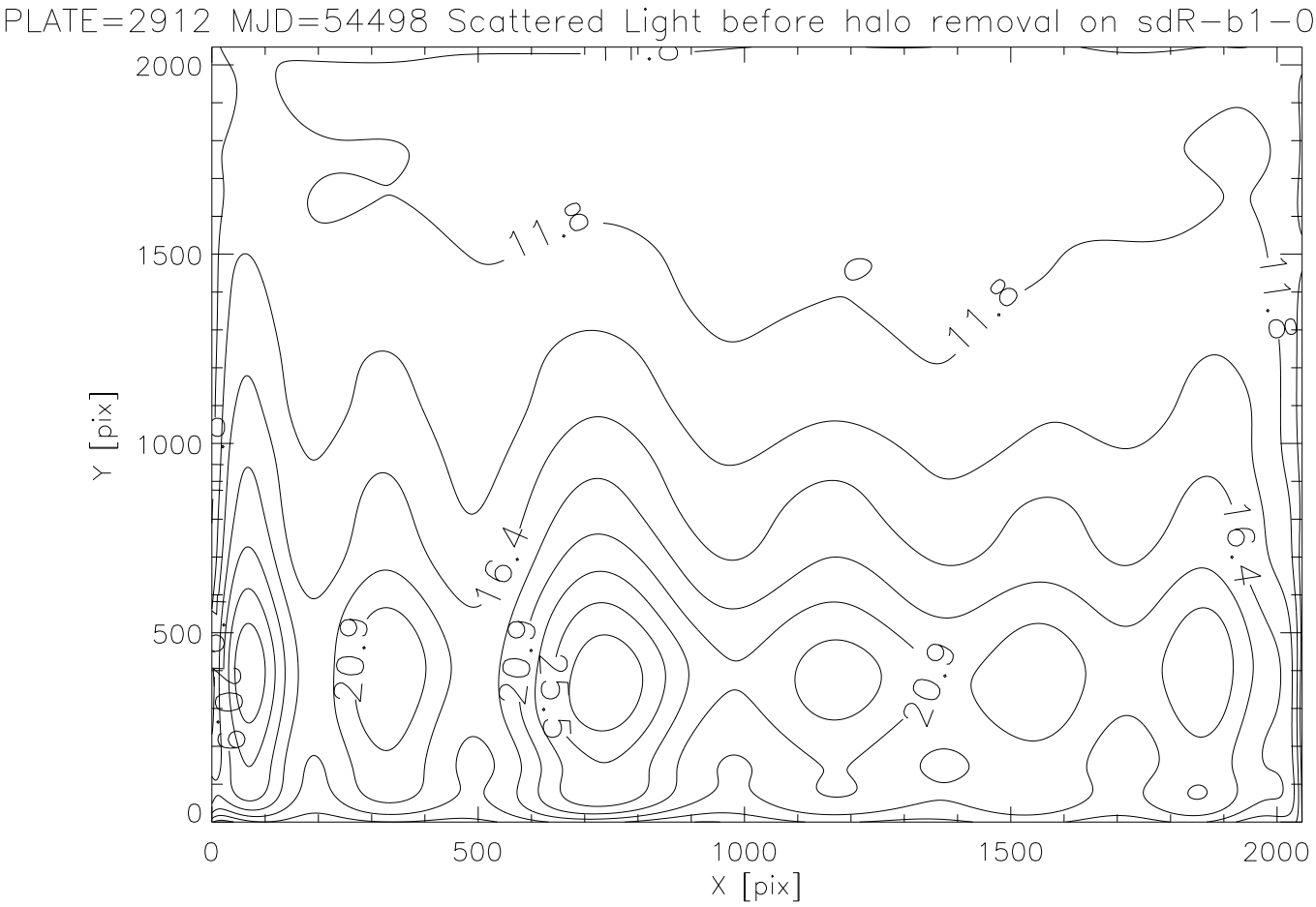

PLATE=2912 MJD=54498 sdR-b1-00049473.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

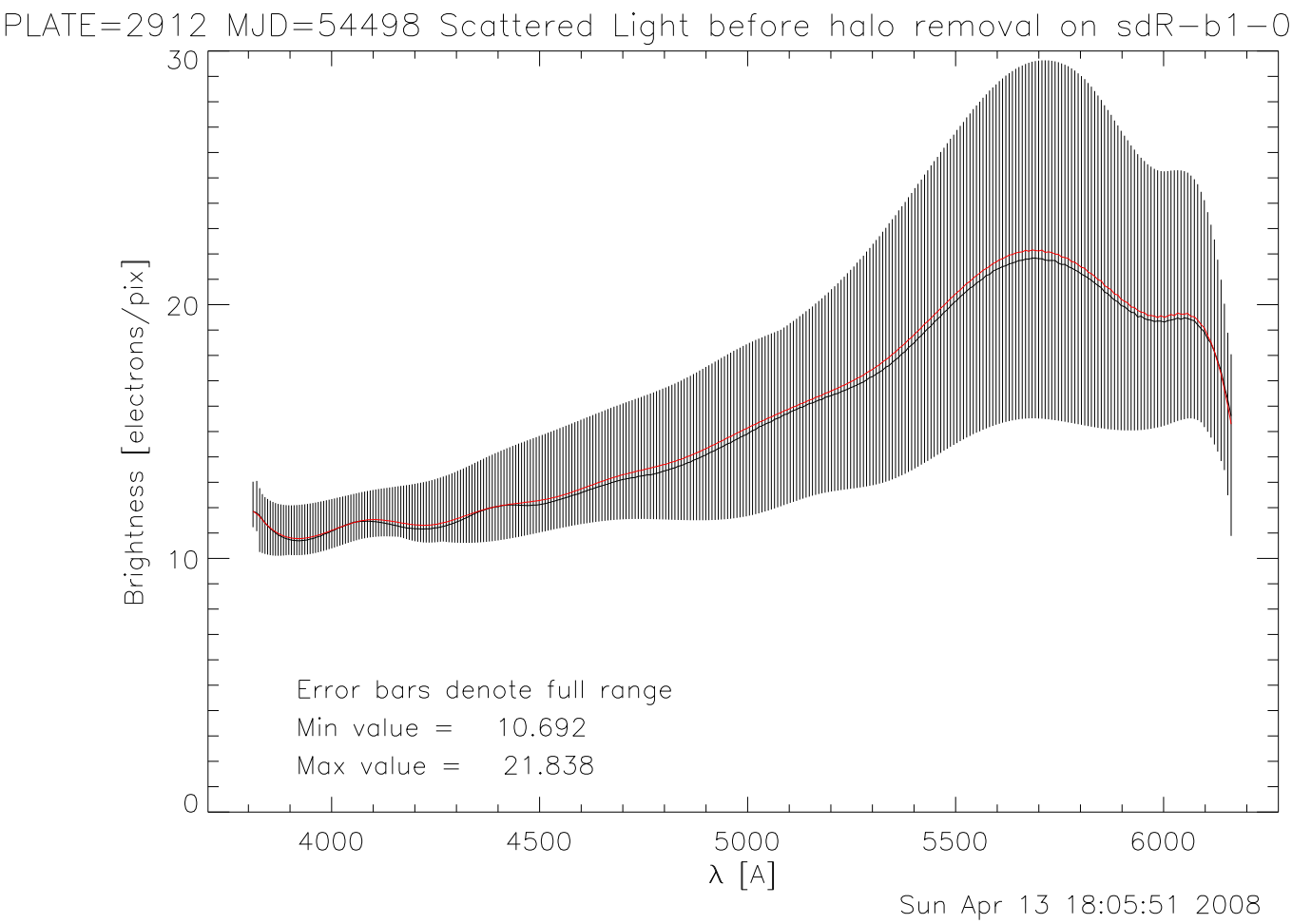

Number of sky fibers = 37
PLATE=2912 MJD=54498 sdR-b1-00049473.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

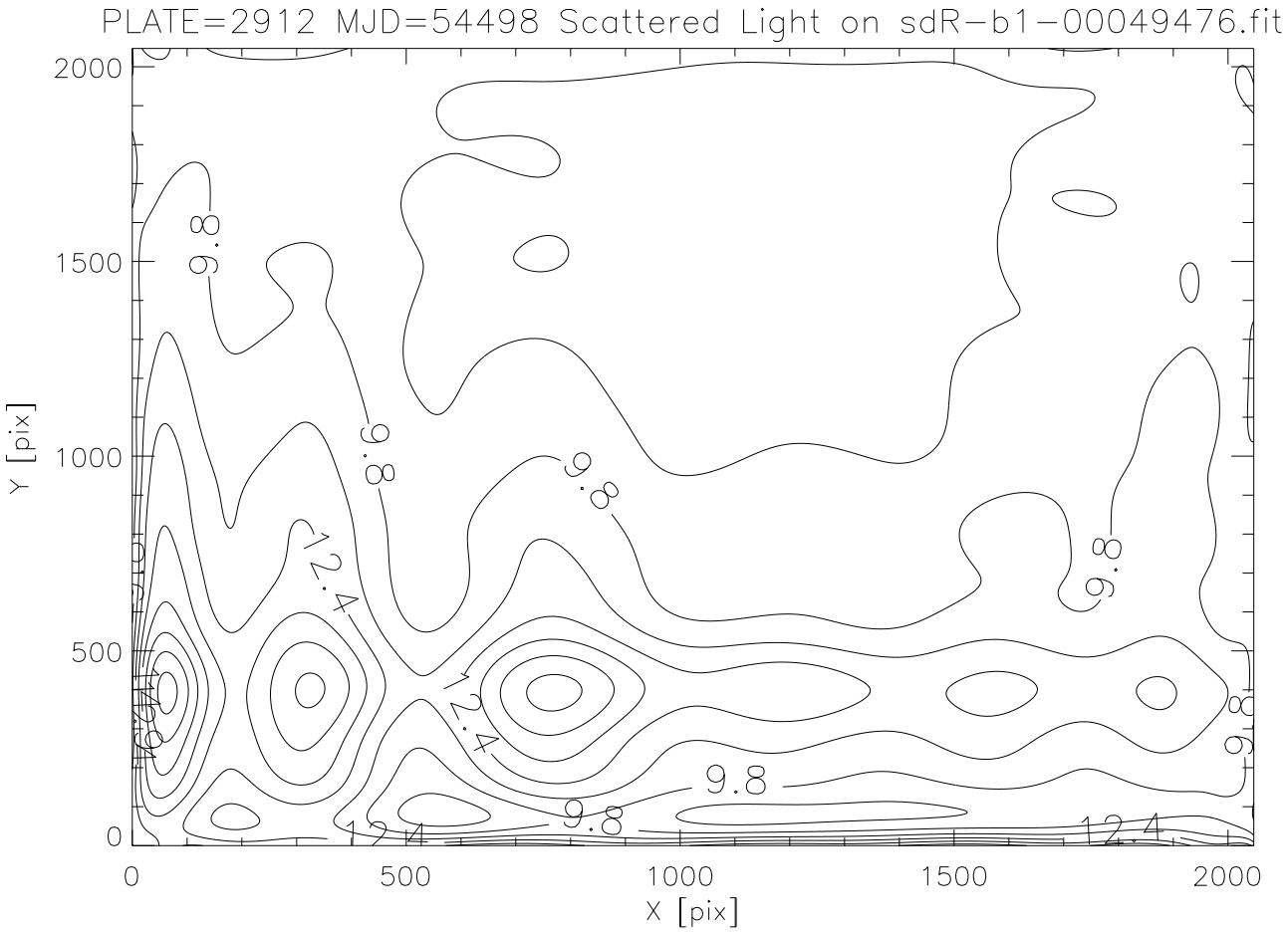

PLATE=2912 MJD=54498 sdR-b1-00049473.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 6.75 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

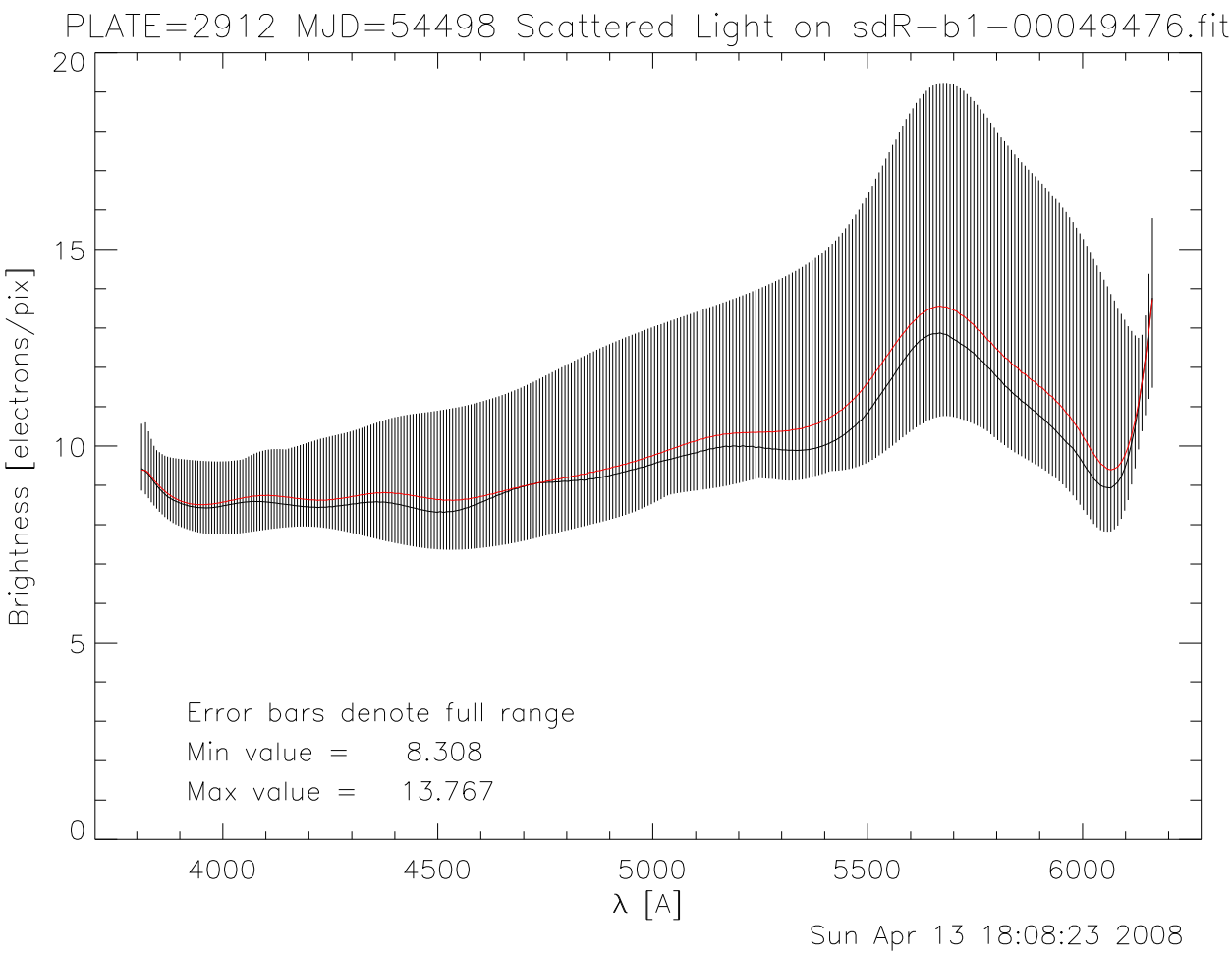

PLATE=2912 MJD=54498 sdR-b1-00049473.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.21 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

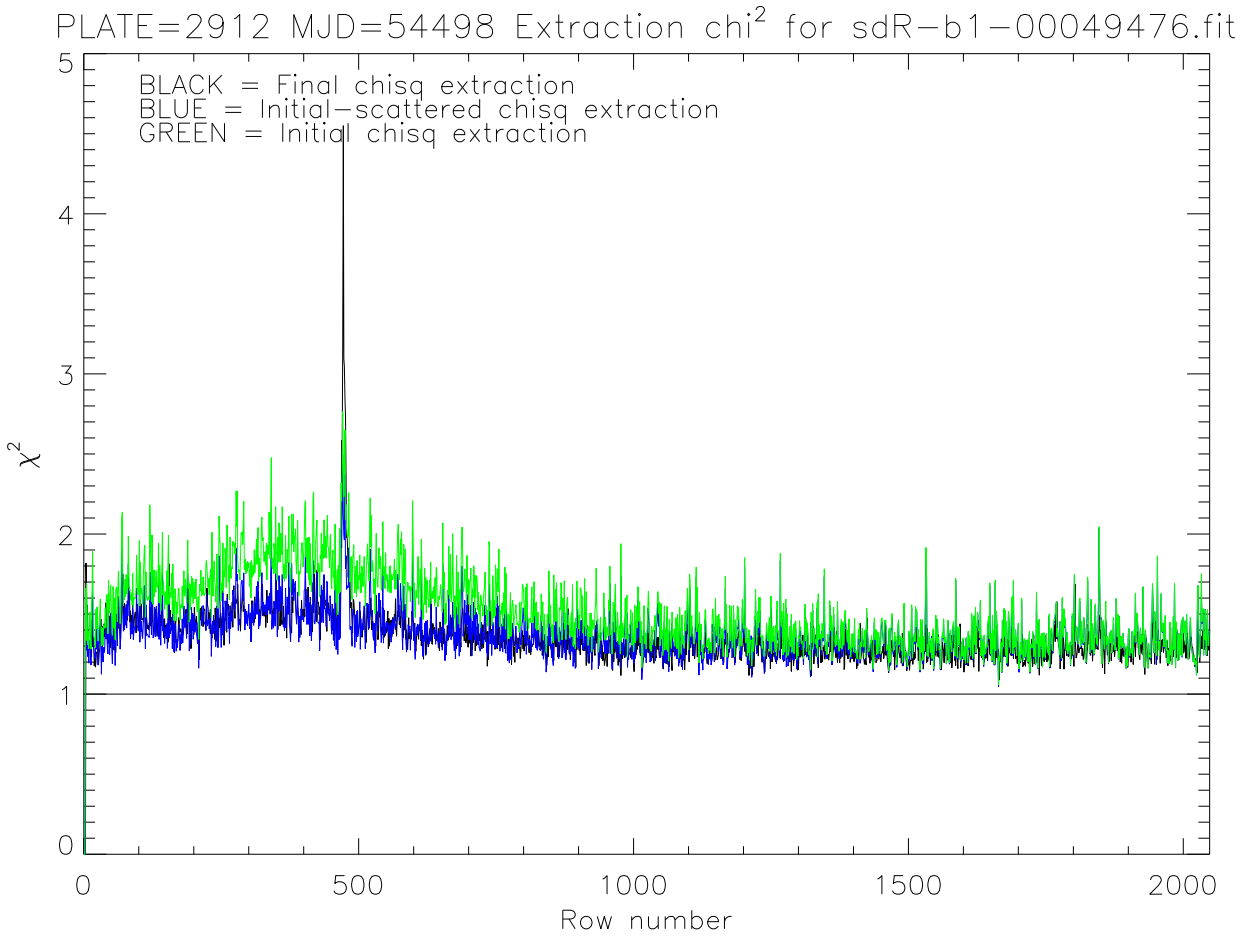

PLATE=2912 MJD=54498 Fiber-Flats for sdR-b1-00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.161
Max value = 1.249
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 18:04:49 2008

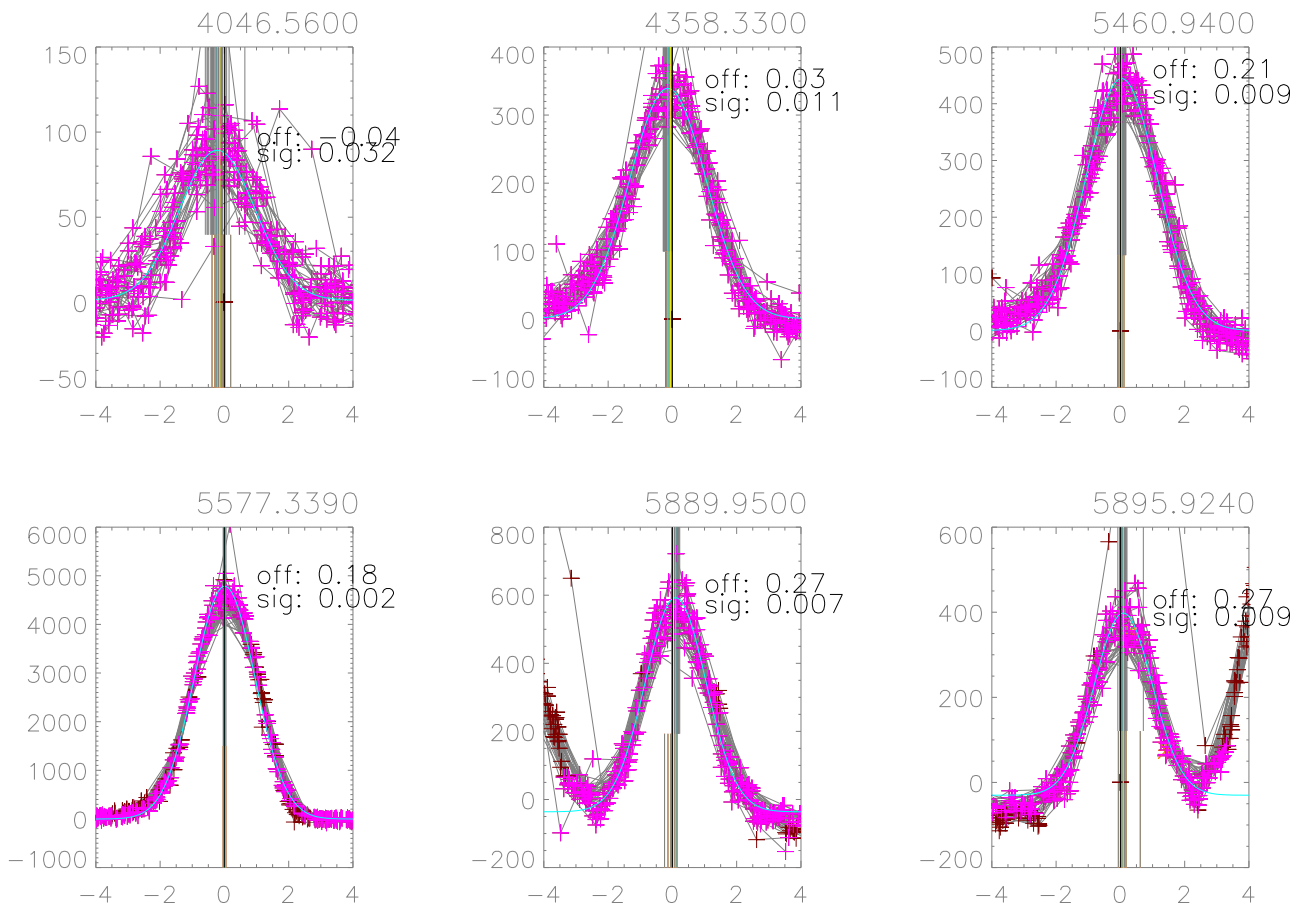

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR−b1−00049476.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
11.8
0
11.8
11.8
16.4
16.4
20.9
20.9
20.9
25.3
25.3
0

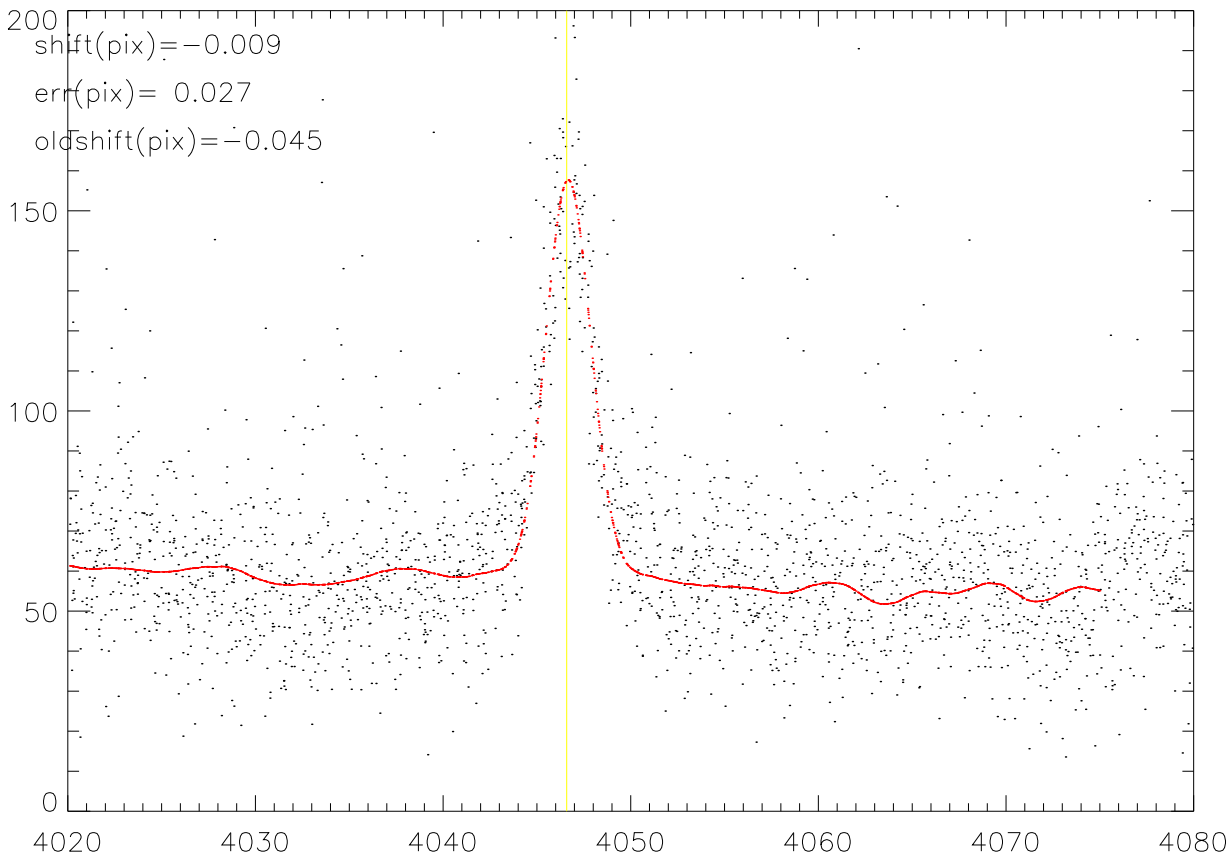

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-b1-00049476.f
Brightness [electrons/pix]
30
20
10
0
Error bars denote full range
Min value = 10.692
Max value = 21.838
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 18:05:51 2008

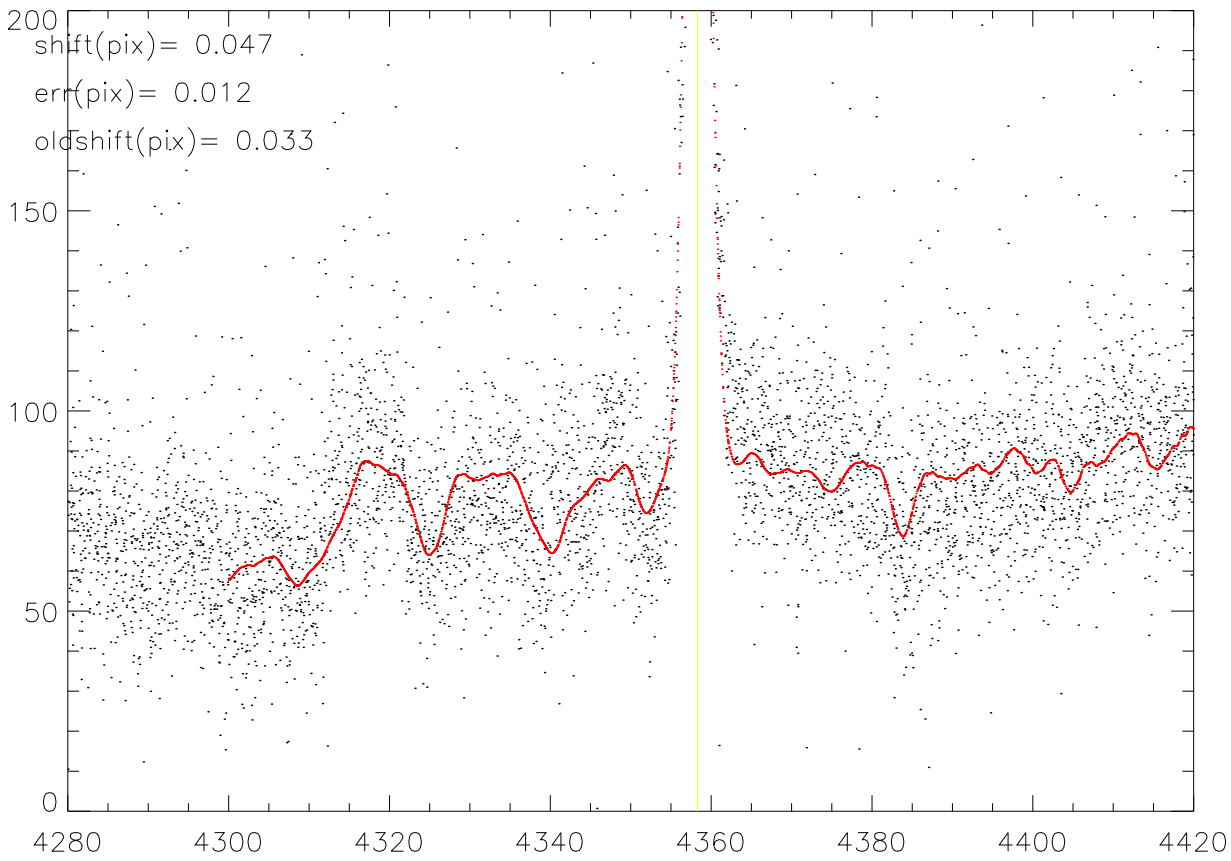

PLATE=2912 MJD=54498 Scattered Light on sdR-b1-00049476.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.8
12.4

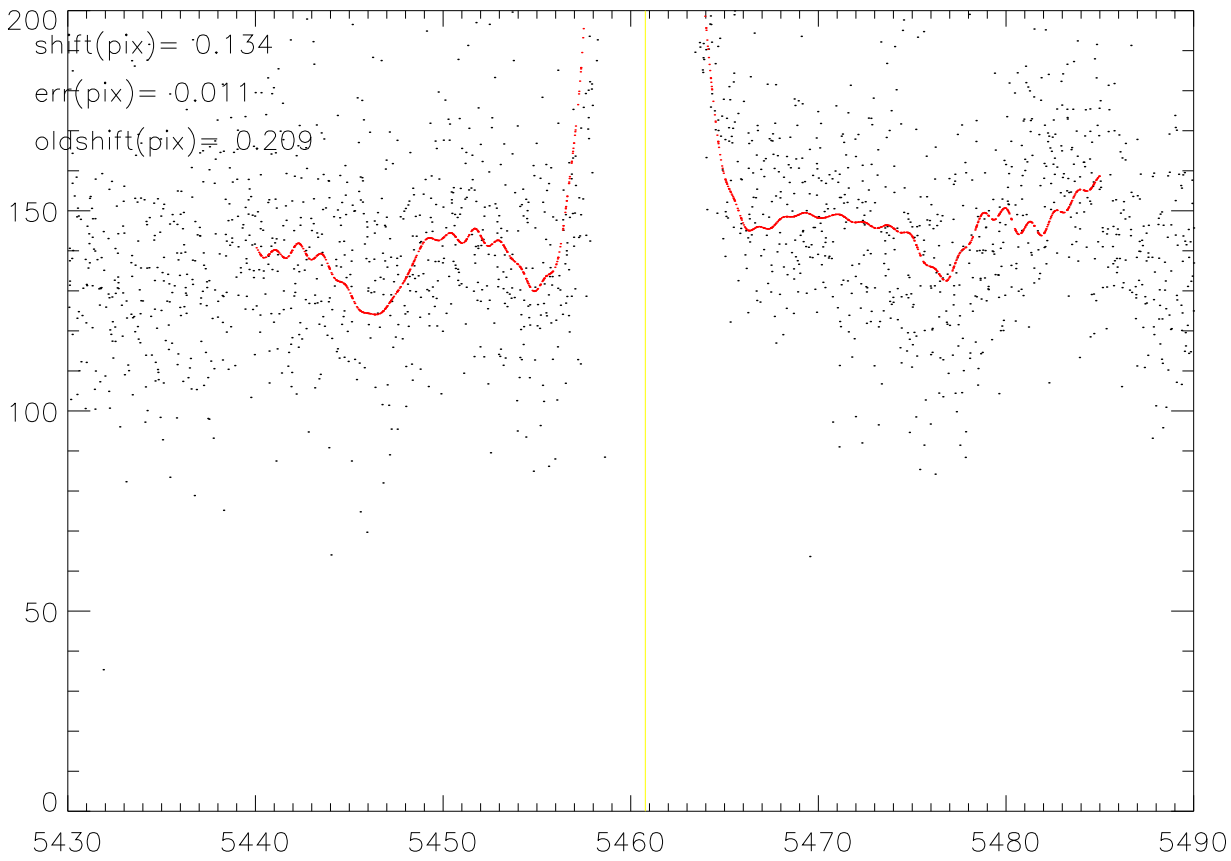

PLATE=2912 MJD=54498 Scattered Light on sdR-b1-00049476.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.308
Max value = 13.767
Sun Apr 13 18:08:23 2008

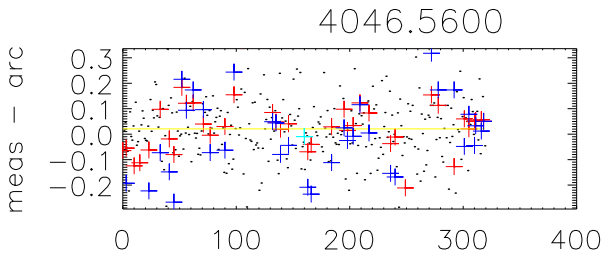

PLATE=2912 MJD=54498 Extraction chi^2 for sdR-b1-00049476.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

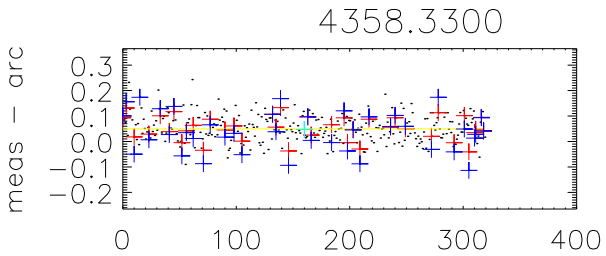

4046.5600
off: −0.04
sig: 0.032
4358.3300
off: 0.03
sig: 0.011
5460.9400
off: 0.21
sig: 0.009
5577.3390
off: 0.18
sig: 0.002
5889.9500
off: 0.27
sig: 0.007
5895.9240
off: 0.27
sig: 0.009

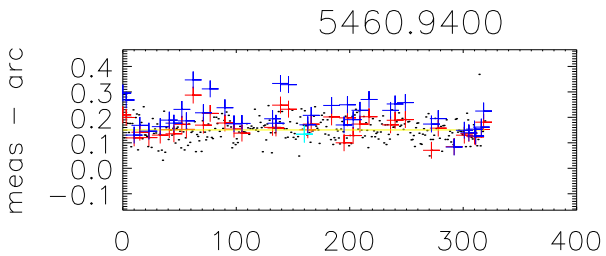

shift(pix)=−0.009
err(pix)= 0.027
oldshift(pix)=−0.045
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

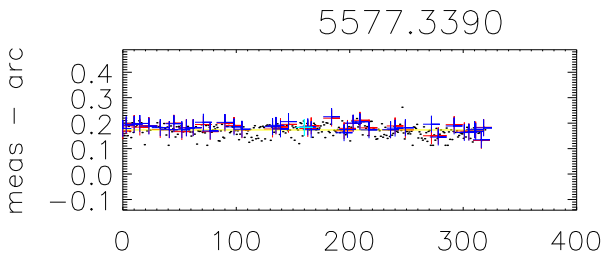

shift(pix)= 0.047
err(pix)= 0.012
oldshift(pix)= 0.033
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

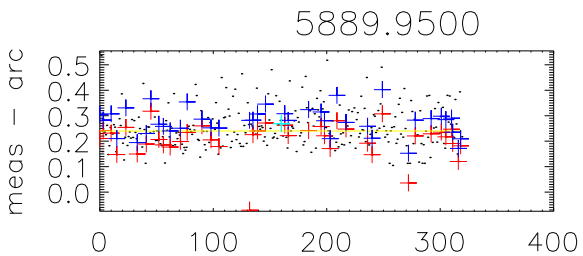

shift(pix)= 0.134
err(pix)= 0.011
oldshift(pix)= 0.209
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

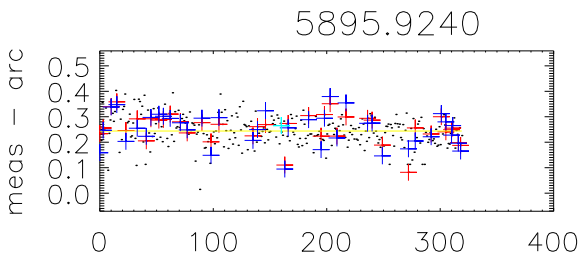

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

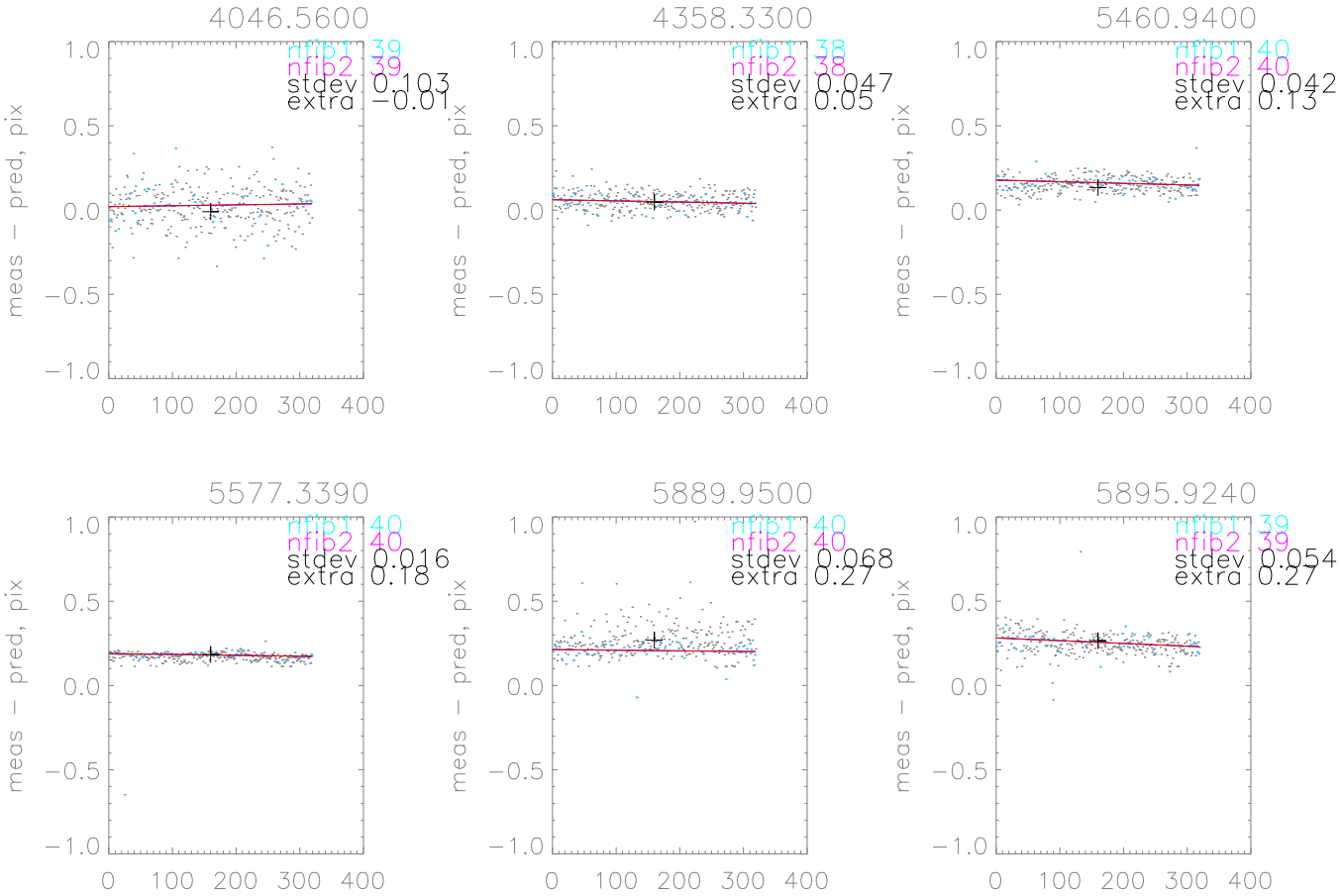

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

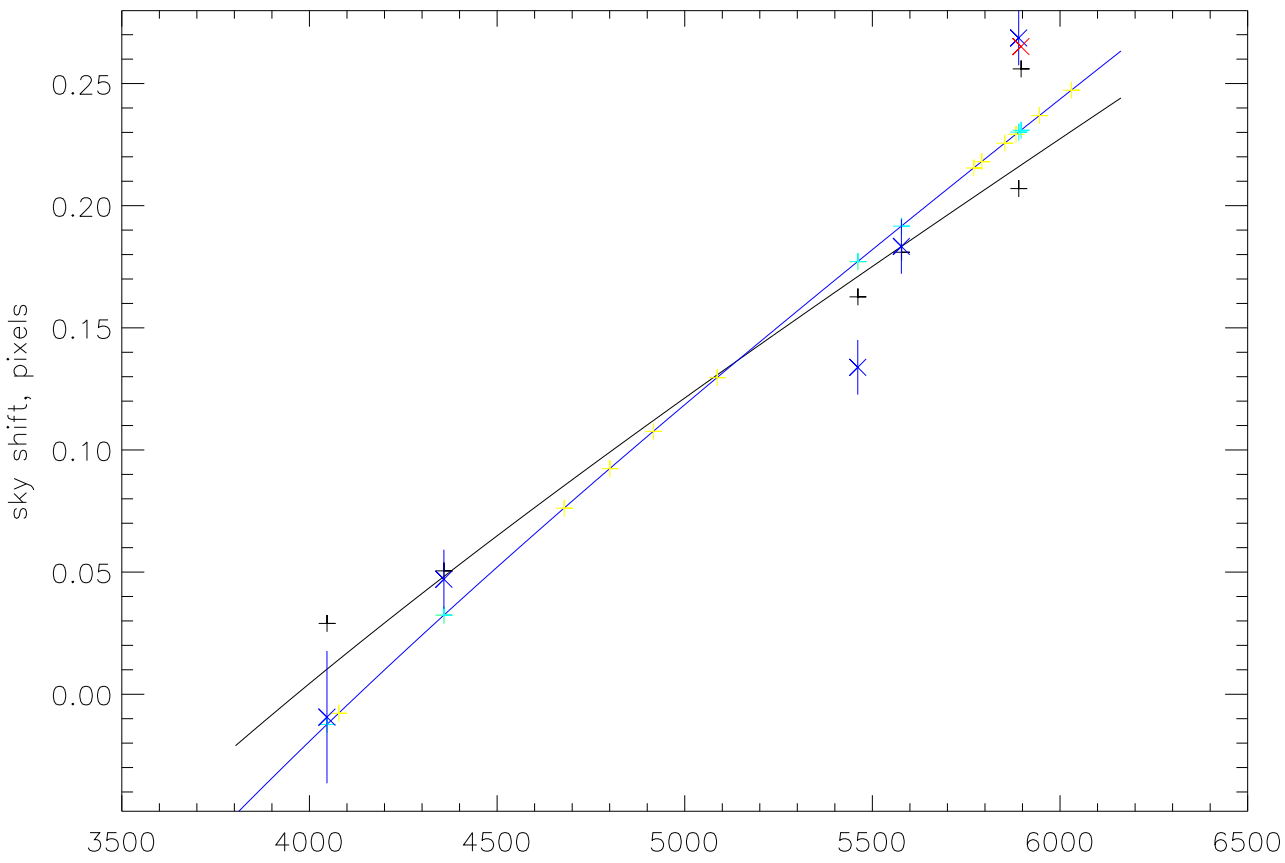

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

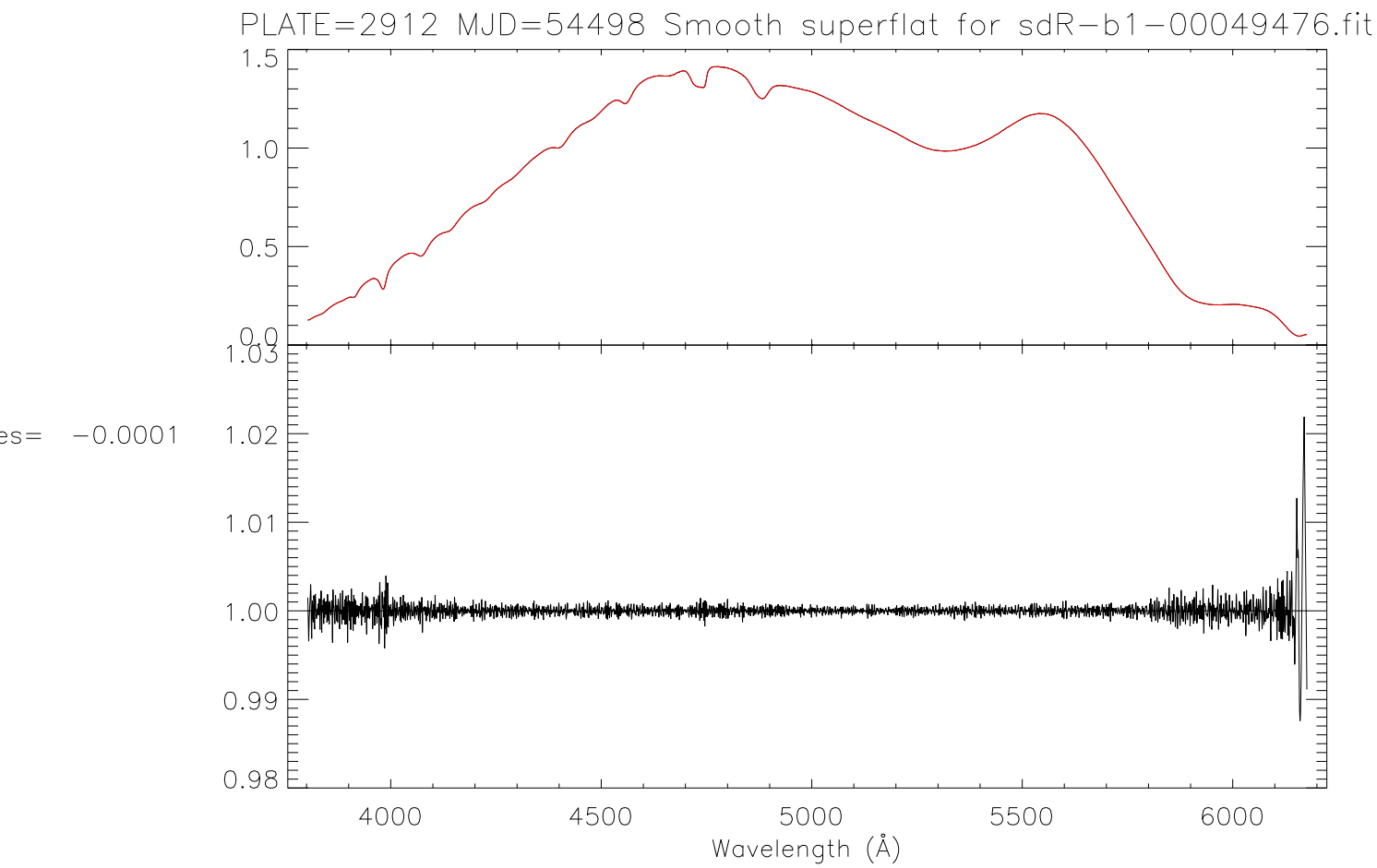

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

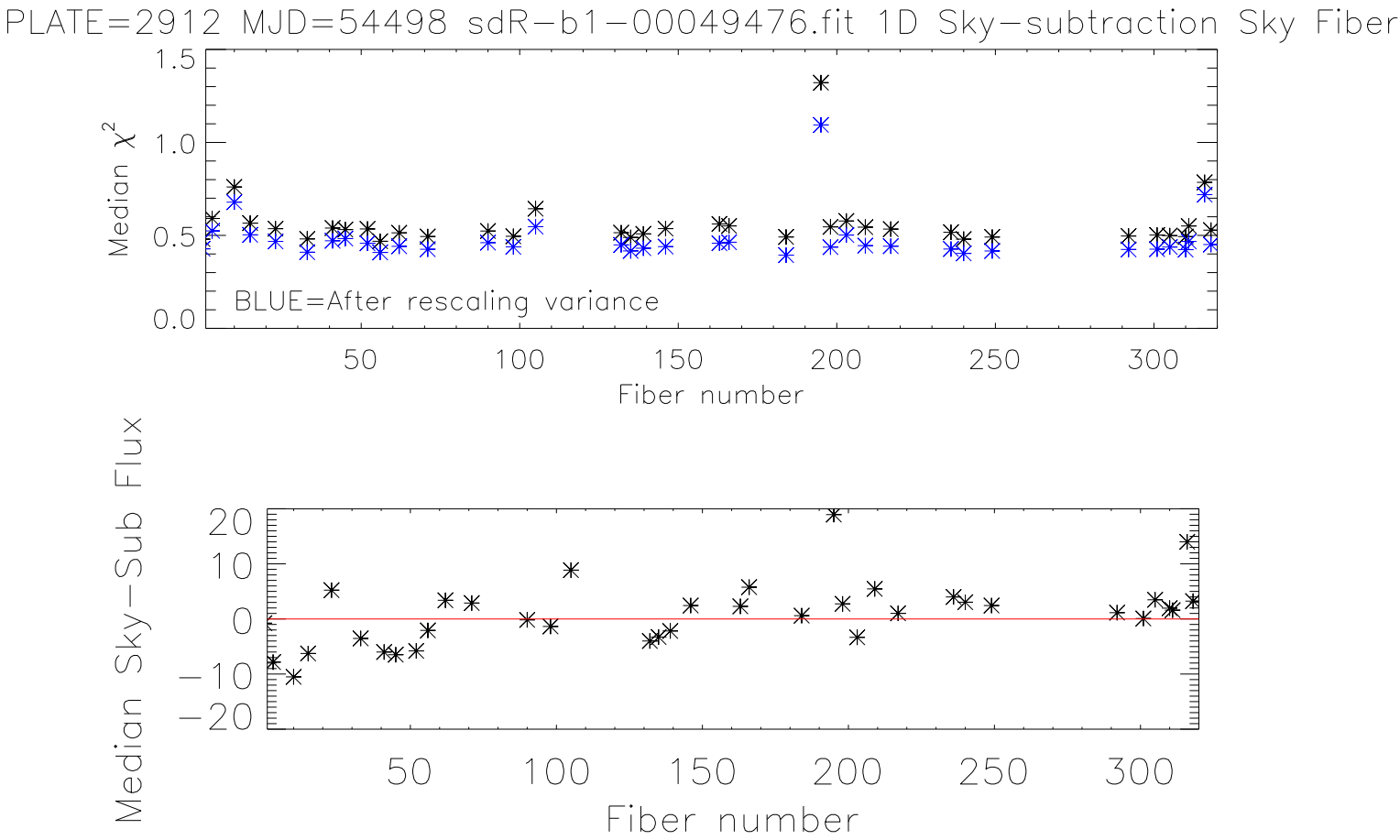

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

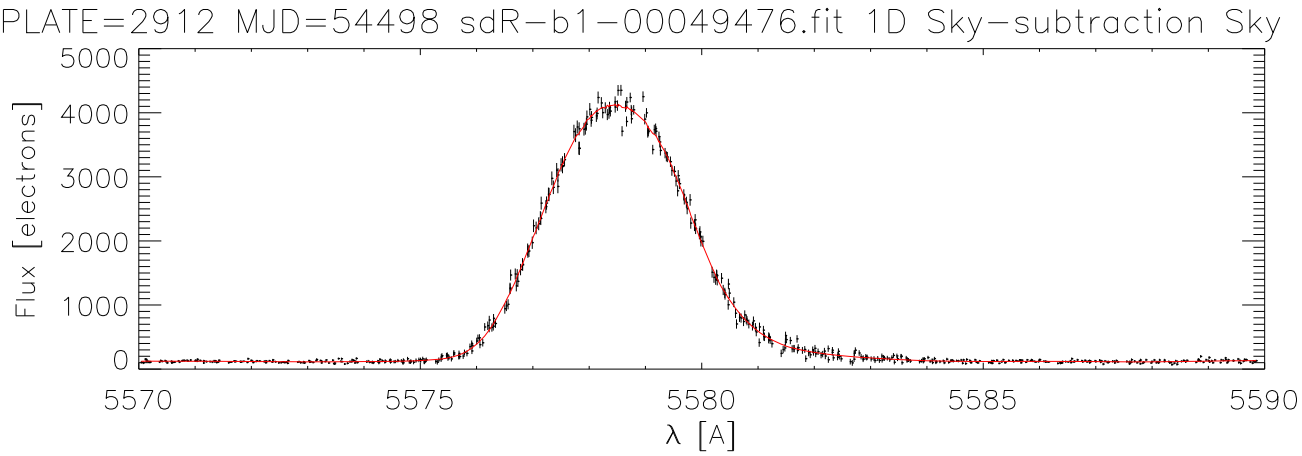

4046.5600
nfib1 39
nfib2 39
stdev 0.103
extra −0.01
4358.3300
nfib1 38
nfib2 38
stdev 0.047
extra 0.05
5460.9400
nfib1 40
nfib2 40
stdev 0.042
extra 0.13
5577.3390
nfib1 40
nfib2 40
stdev 0.016
extra 0.18
5889.9500
nfib1 40
nfib2 40
stdev 0.068
extra 0.27
5895.9240
nfib1 39
nfib2 39
stdev 0.054
extra 0.27
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

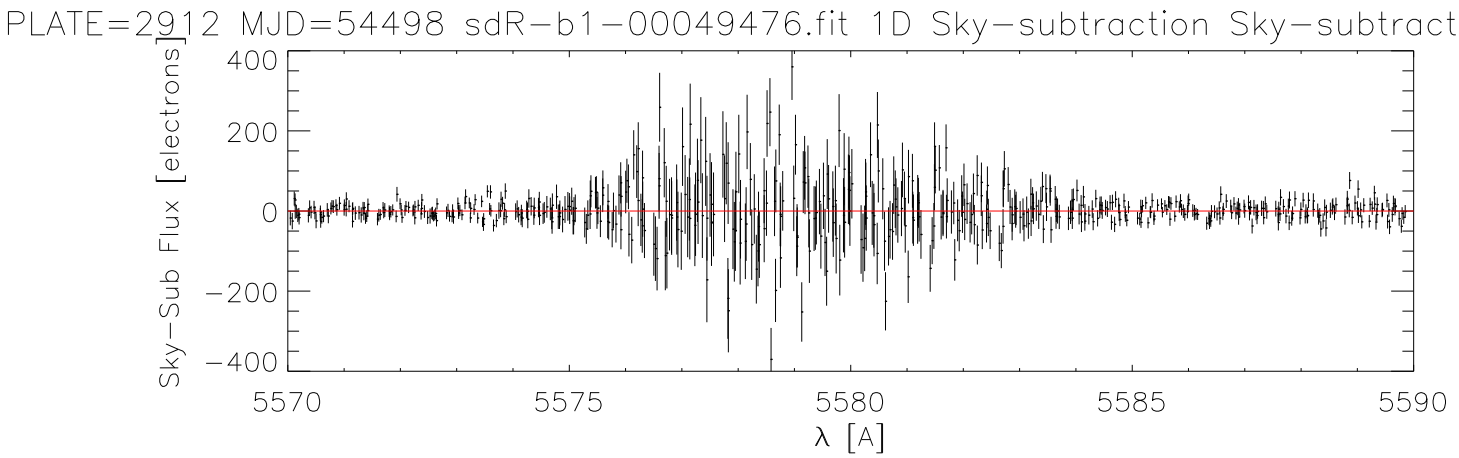

sky shift, pixels
0.25
0.20
0.15
0.10
0.05
0.00
3500
4000
4500
5000
5500
6000
6500

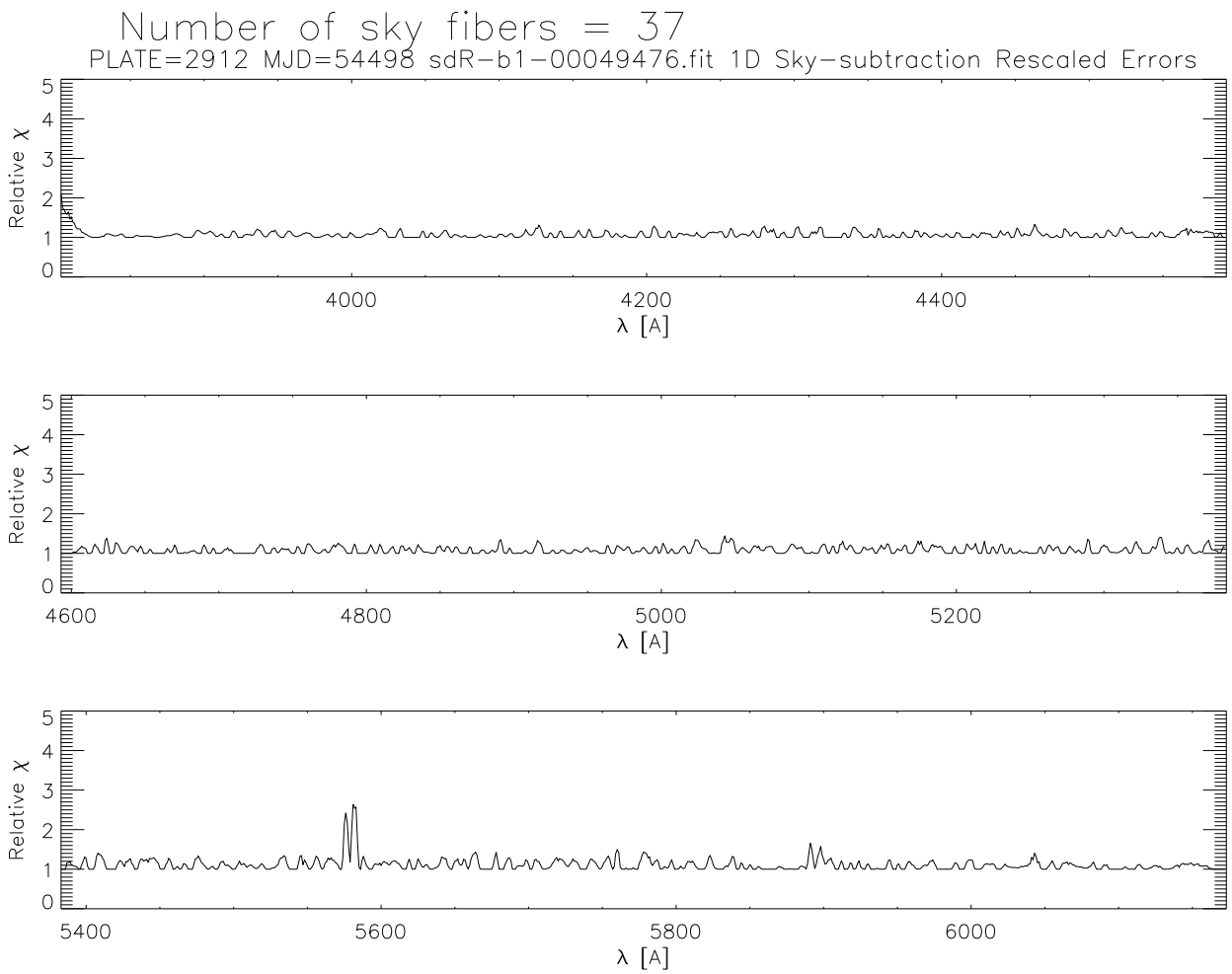

PLATE=2912 MJD=54498 Smooth superflat for sdR-b1-00049476.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

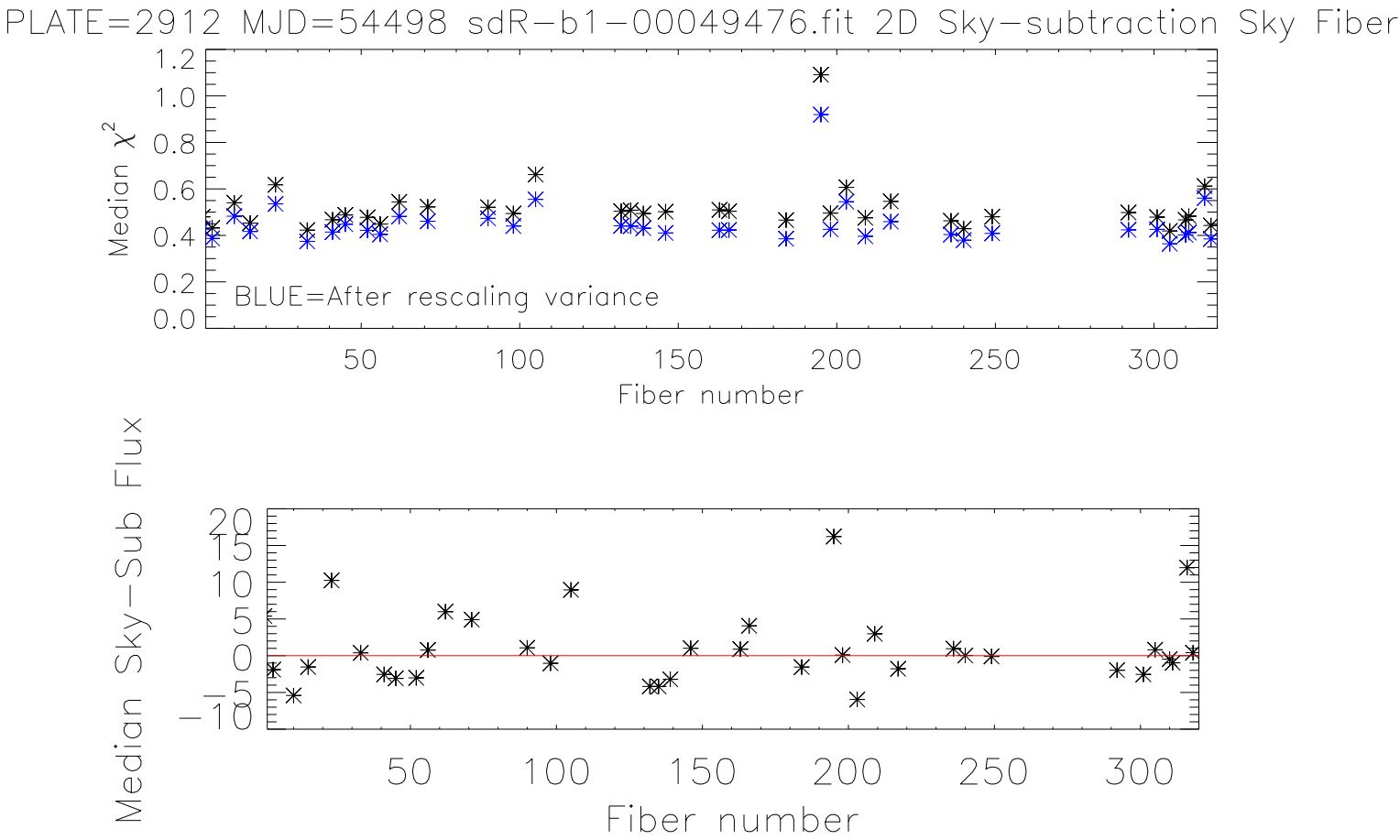
es= −0.0001

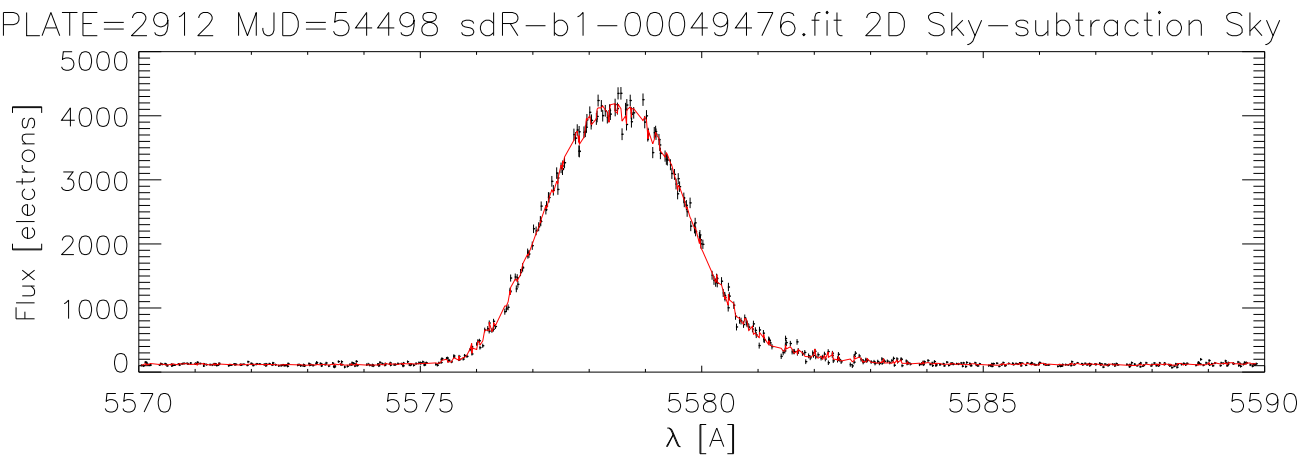

PLATE=2912 MJD=54498 sdR-b1-00049476.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

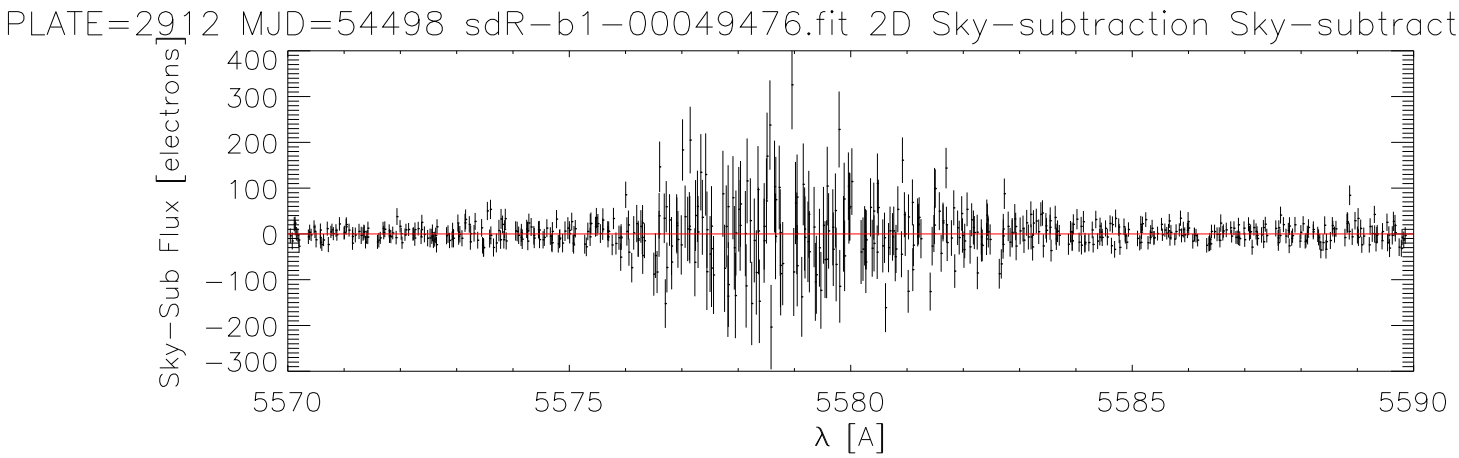

PLATE=2912 MJD=54498 sdR-b1-00049476.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

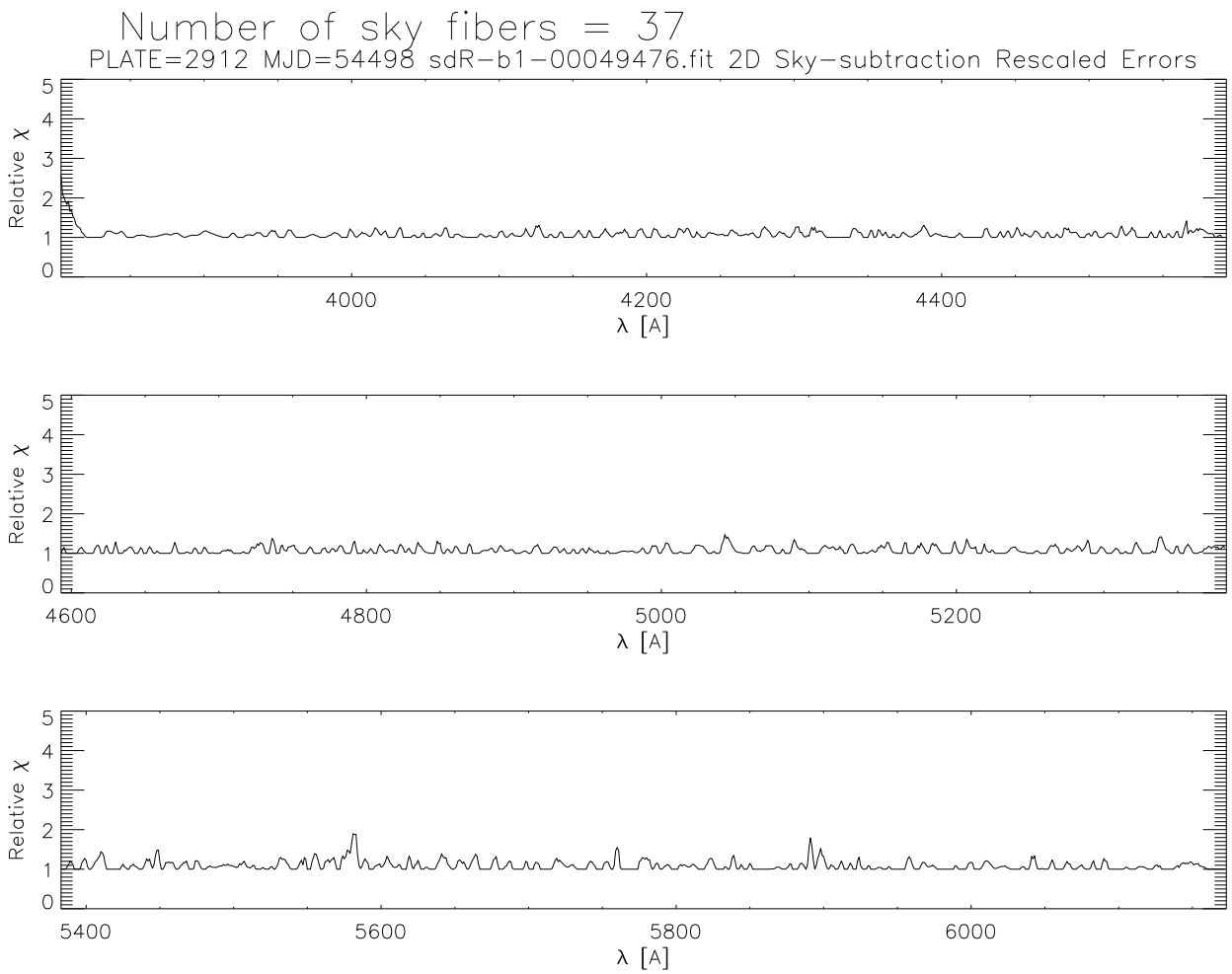

PLATE=2912 MJD=54498 sdR-b1-00049476.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

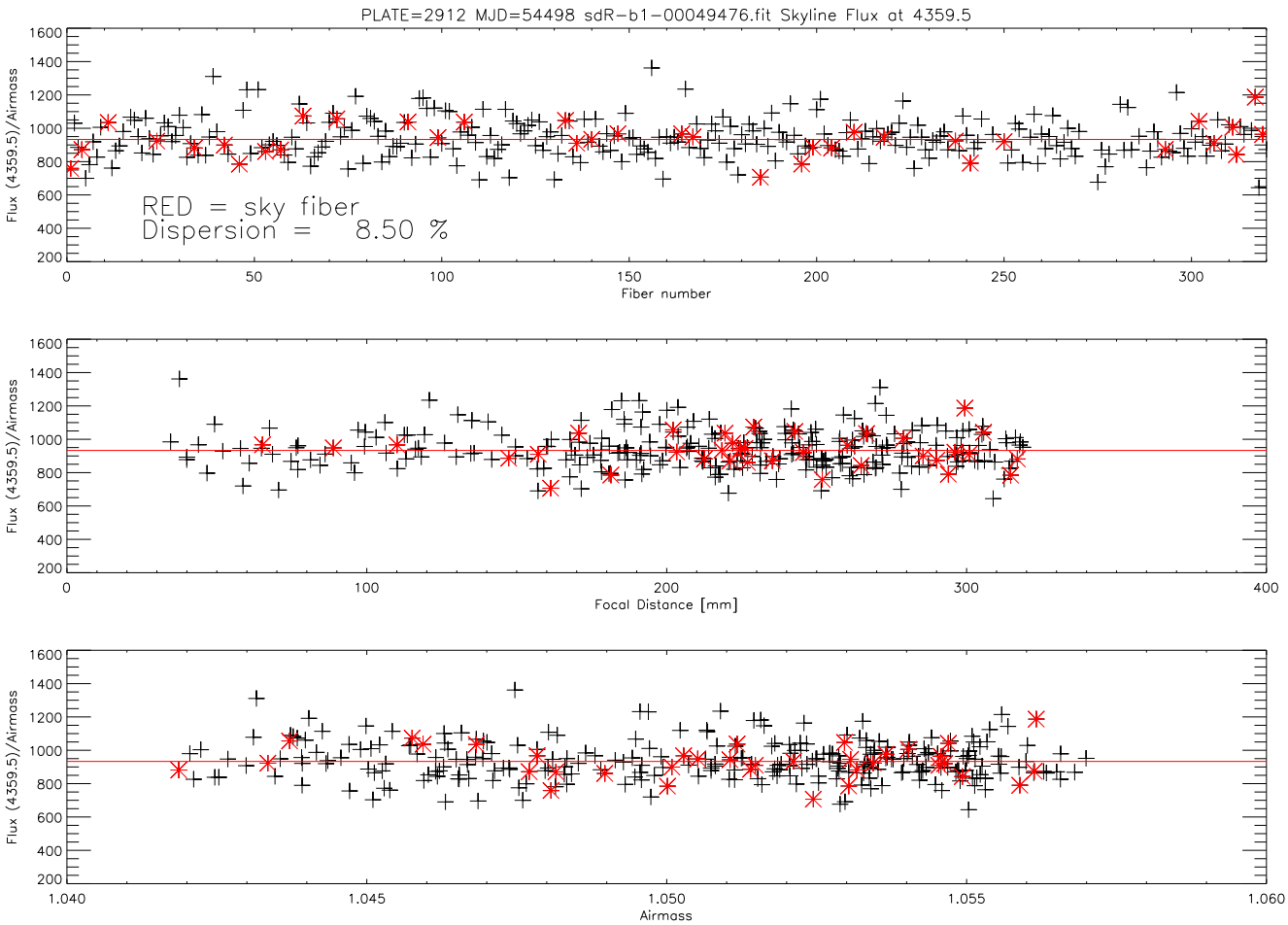

Number of sky fibers = 37
PLATE=2912 MJD=54498 sdR-b1-00049476.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

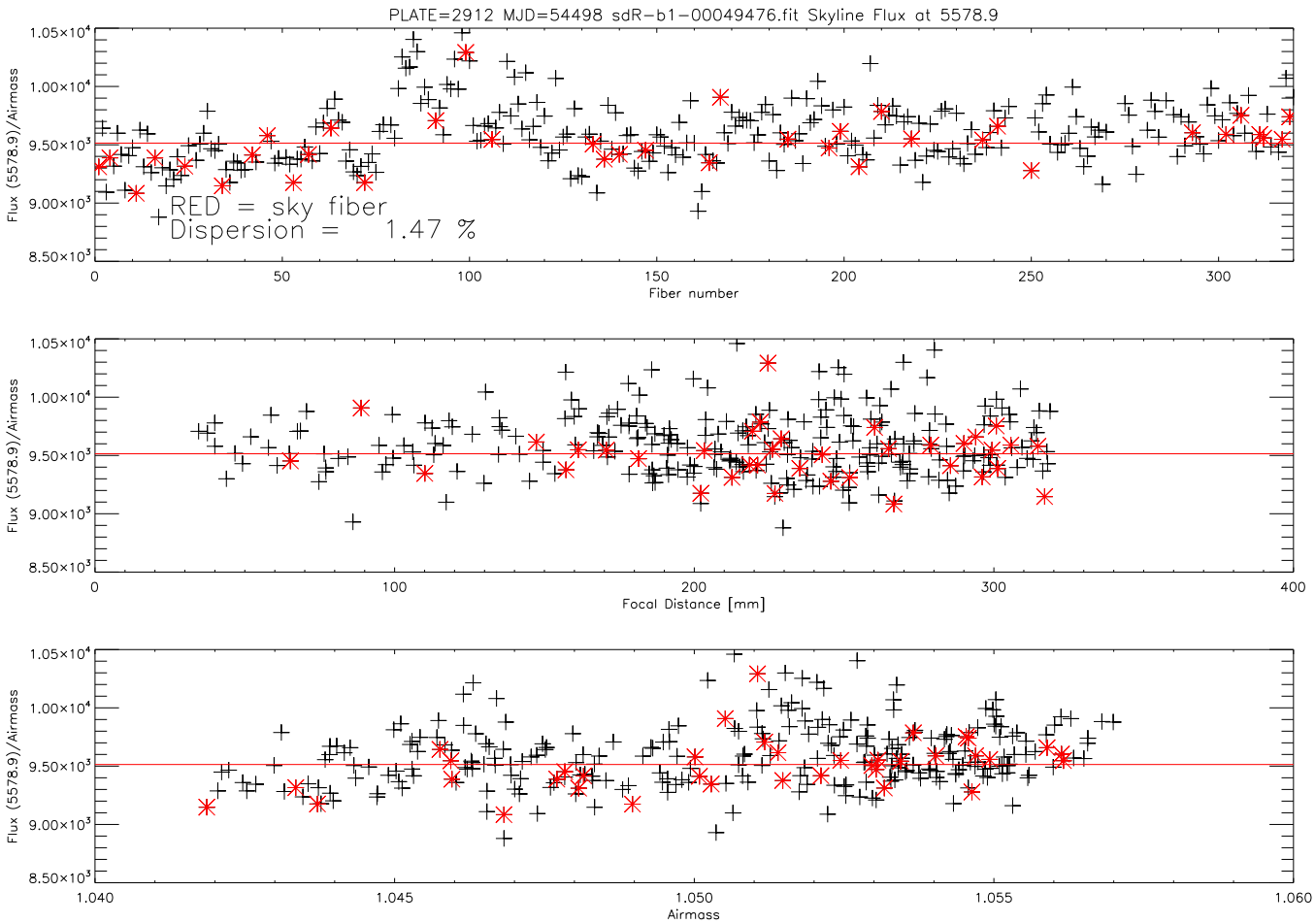

PLATE=2912 MJD=54498 sdR-b1-00049476.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

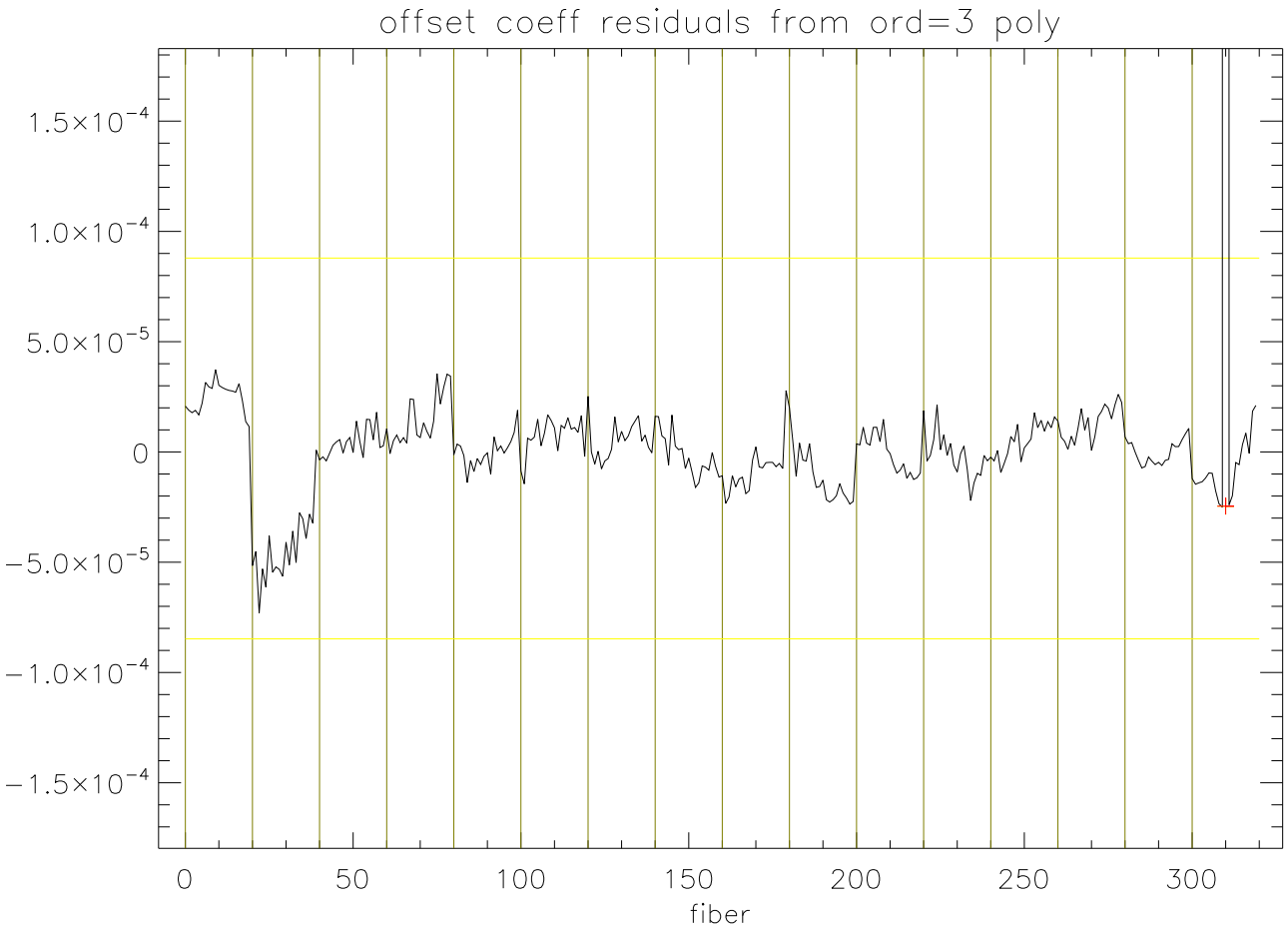

PLATE=2912 MJD=54498 sdR-b1-00049476.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

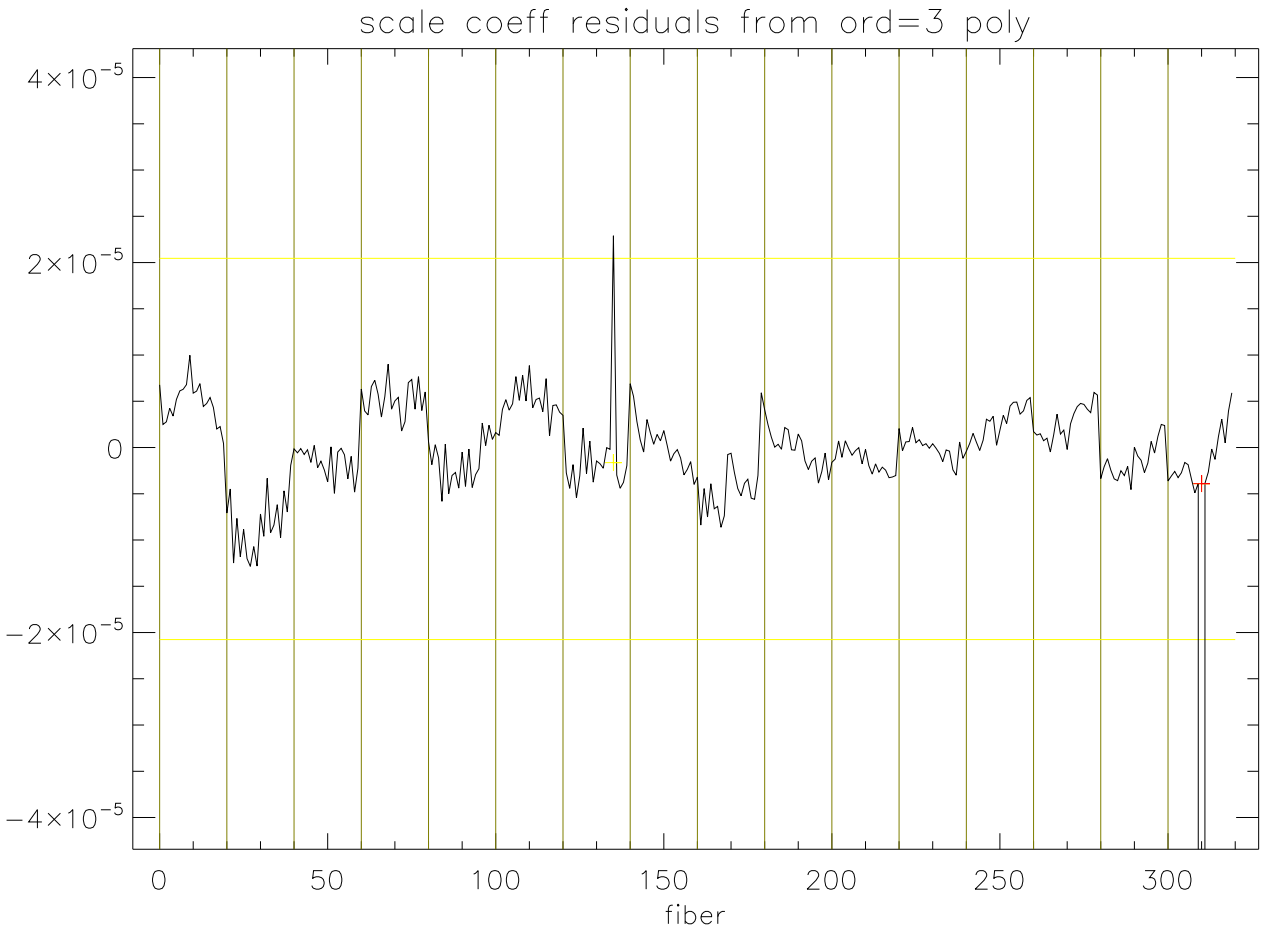

PLATE=2912 MJD=54498 sdR-b1-00049476.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

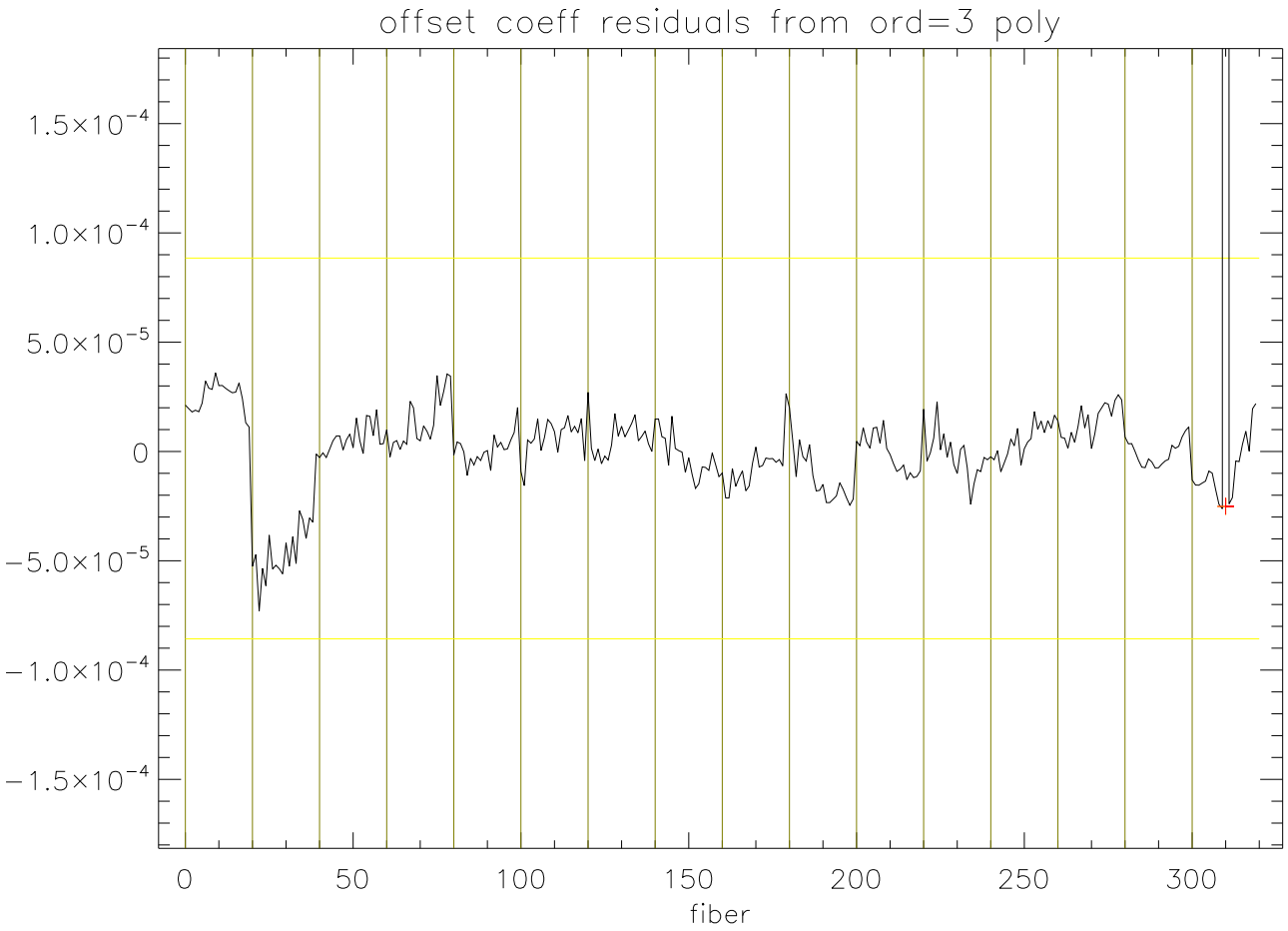

Number of sky fibers = 37
PLATE=2912 MJD=54498 sdR-b1-00049476.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

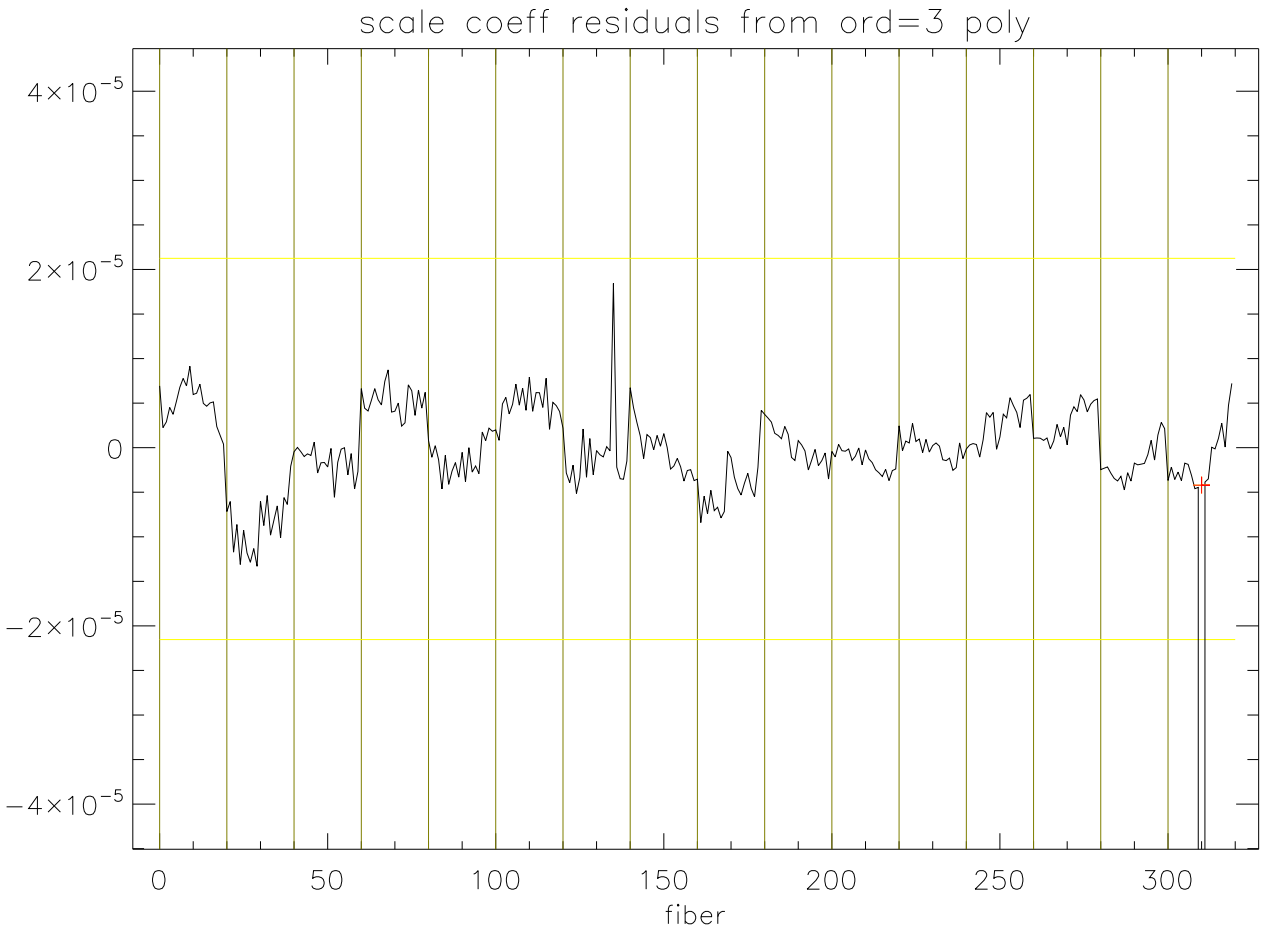

PLATE=2912 MJD=54498 sdR-b1-00049476.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.50 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

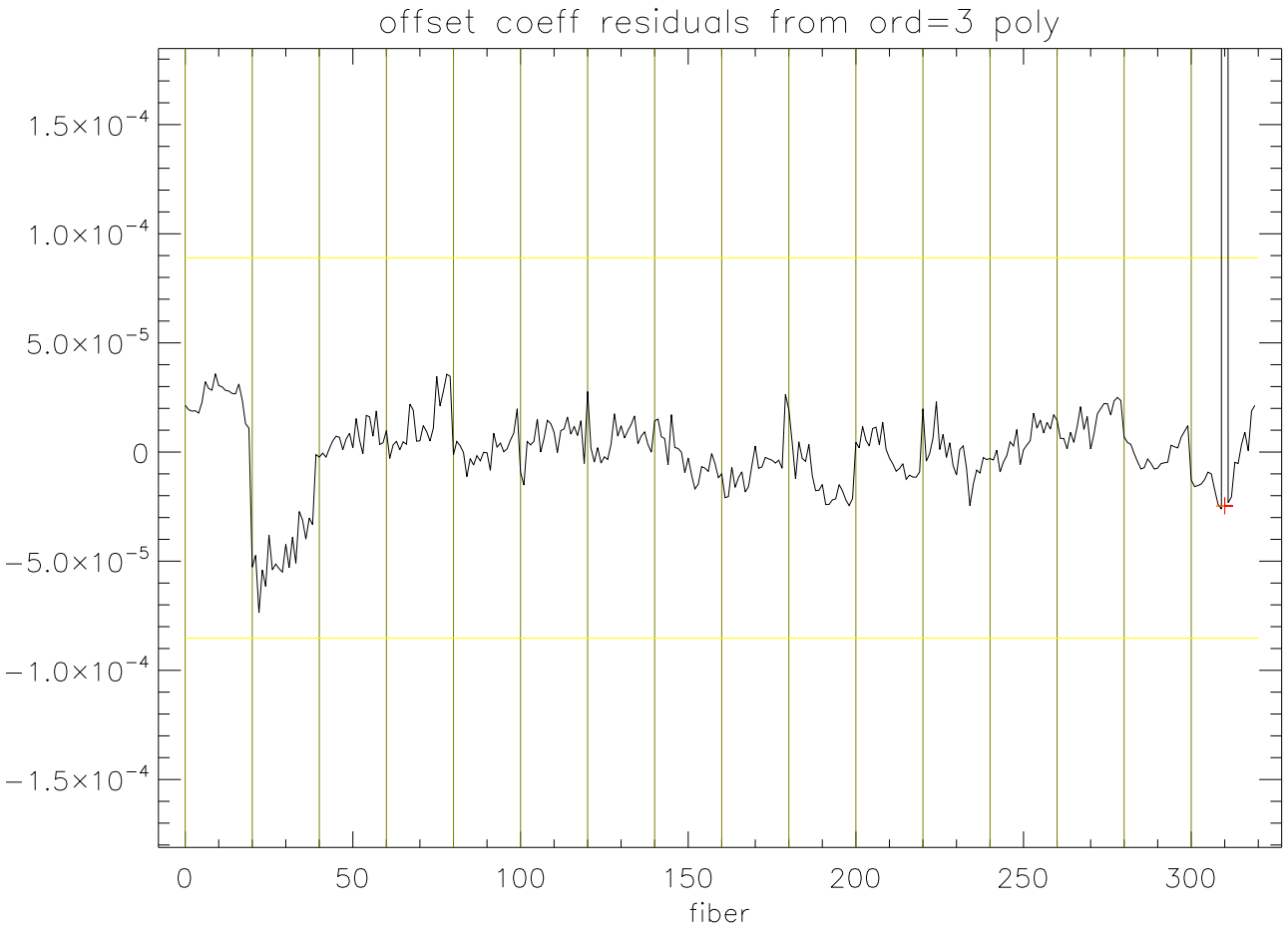

PLATE=2912 MJD=54498 sdR-b1-00049476.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.05×10⁴
1.00×10⁴
9.50×10³
9.00×10³
8.50×10³
RED = sky fiber
Dispersion = 1.47 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1.05×10⁴
1.00×10⁴
9.50×10³
9.00×10³
8.50×10³
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.05×10⁴
1.00×10⁴
9.50×10³
9.00×10³
8.50×10³
1.040
1.045
1.050
1.055
1.060
Airmass

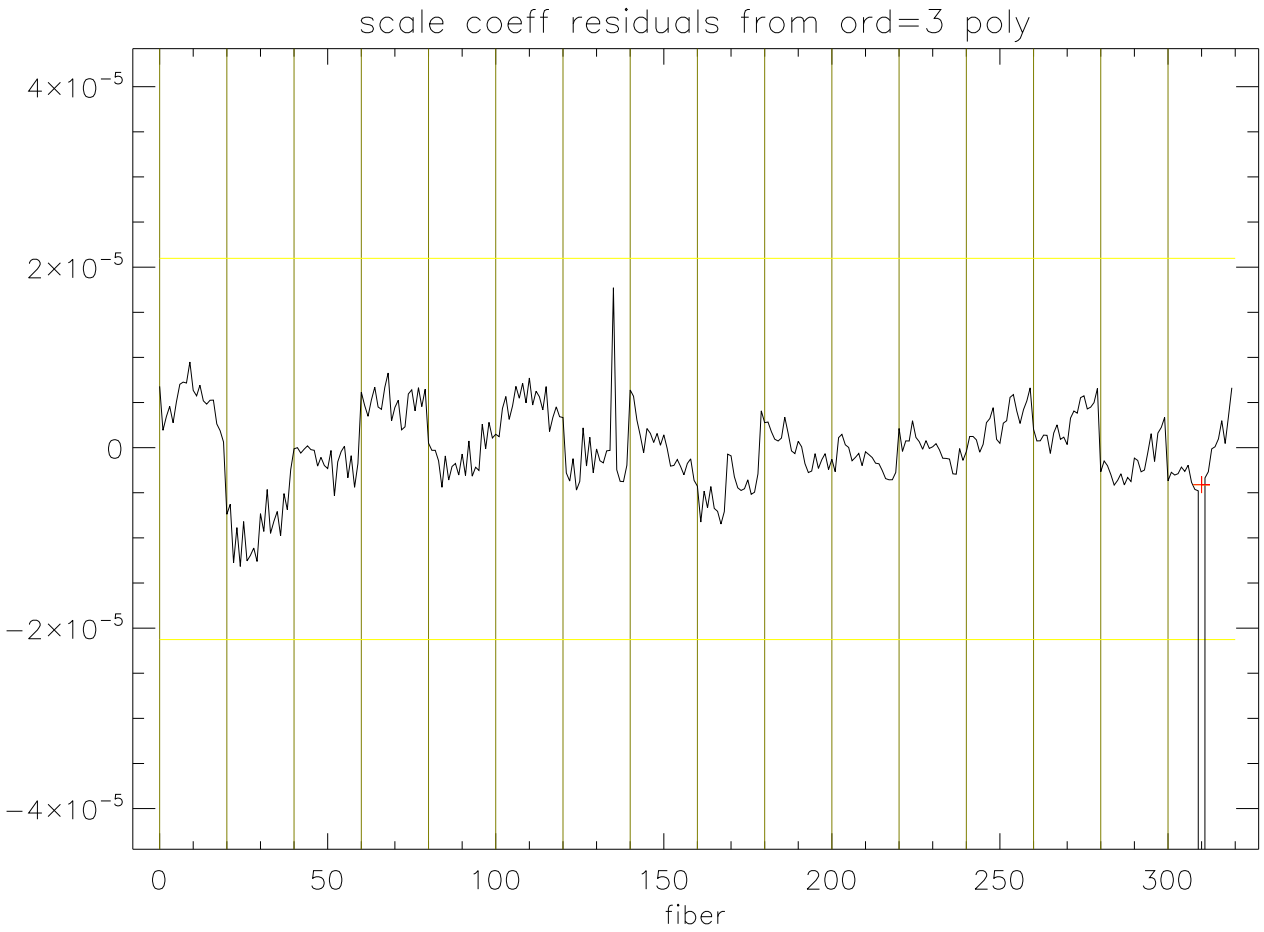

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

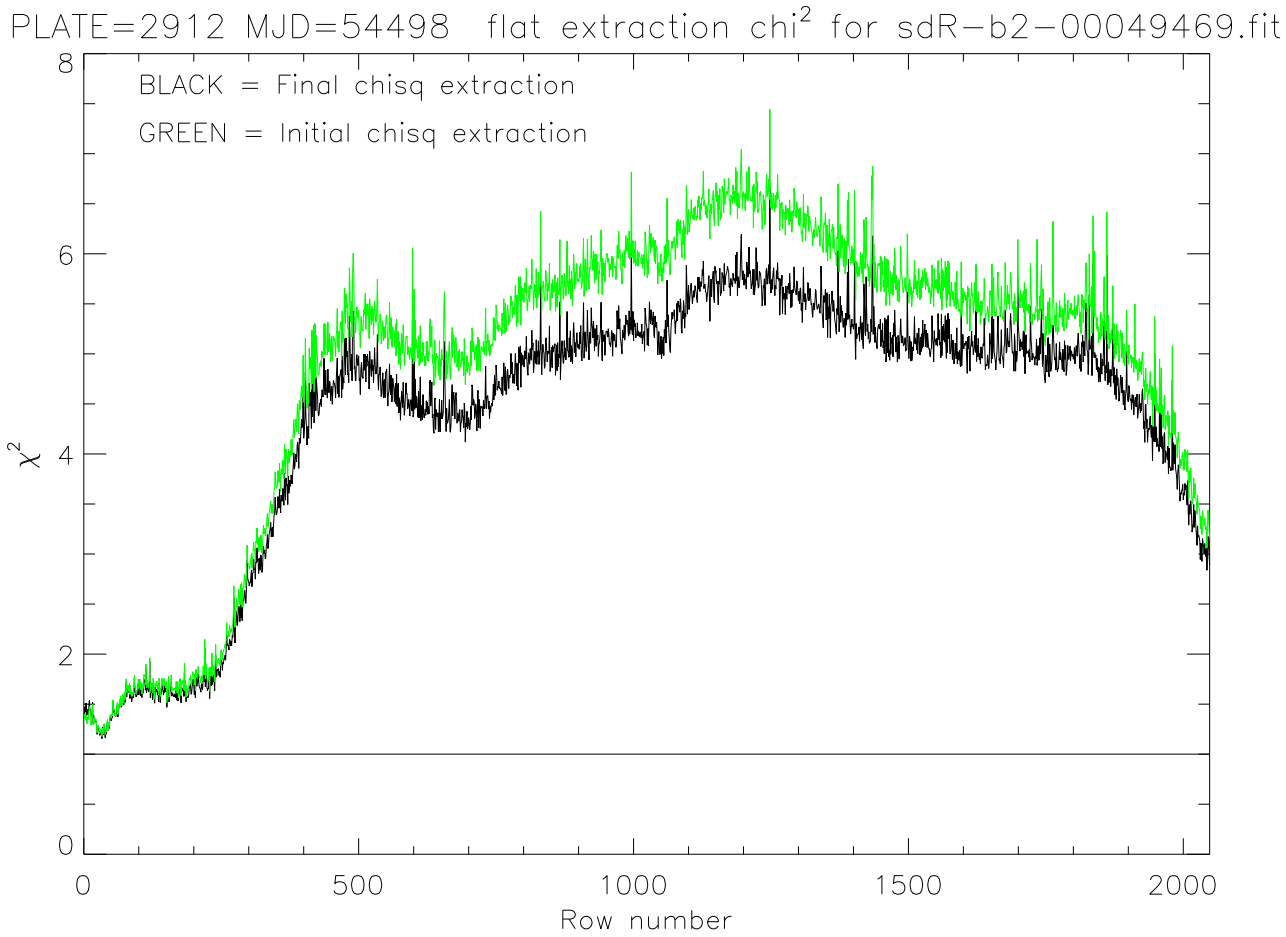

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

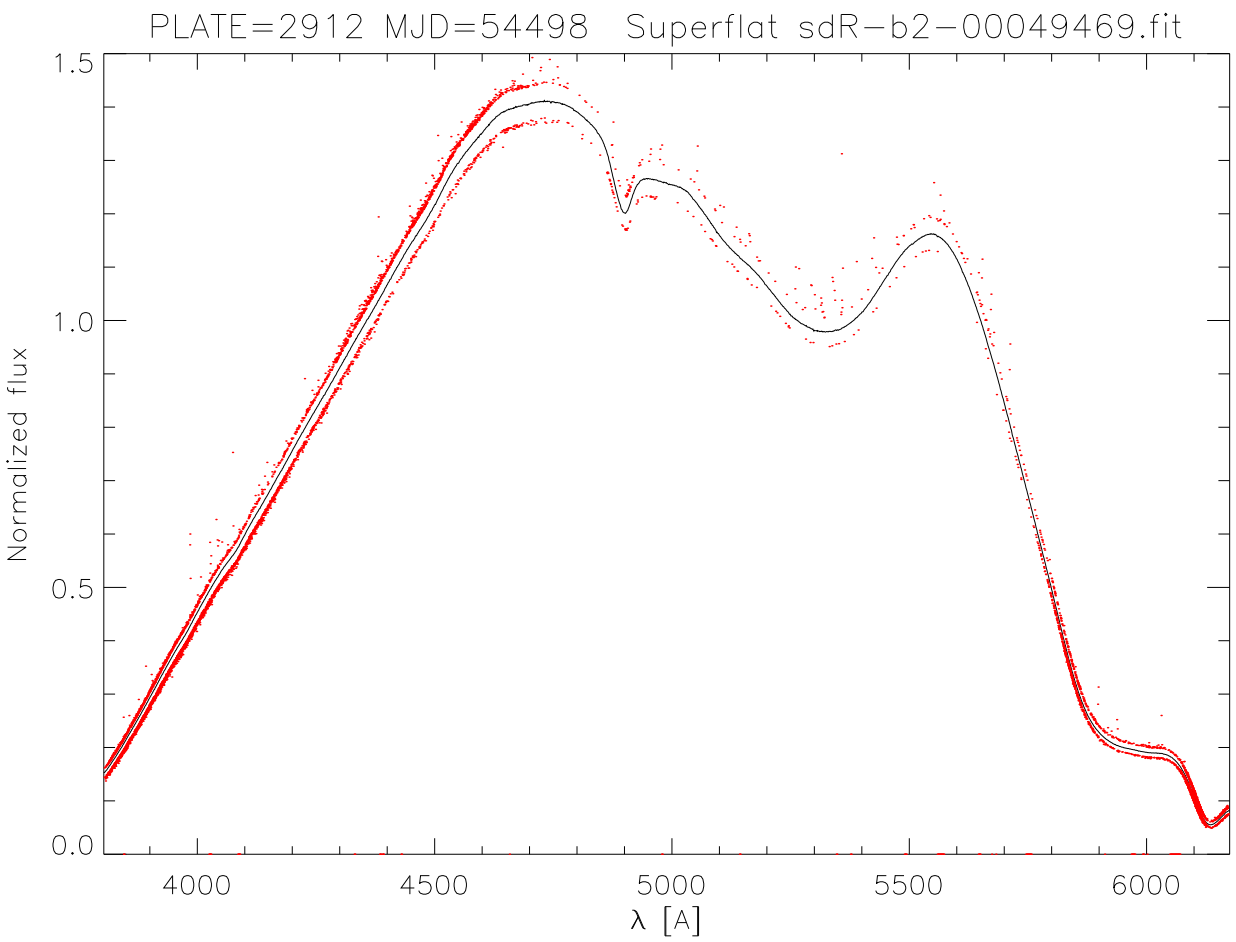

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

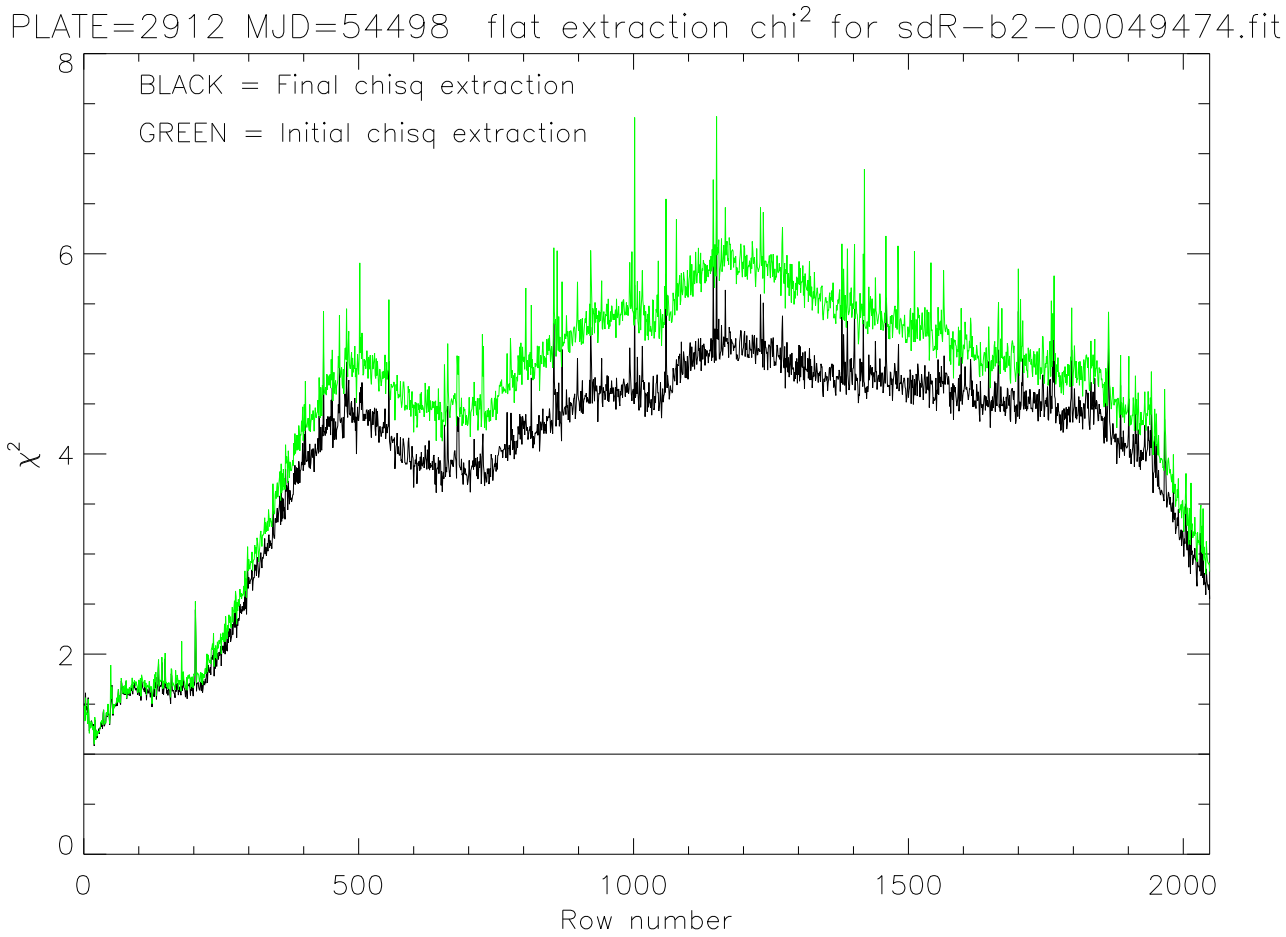

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

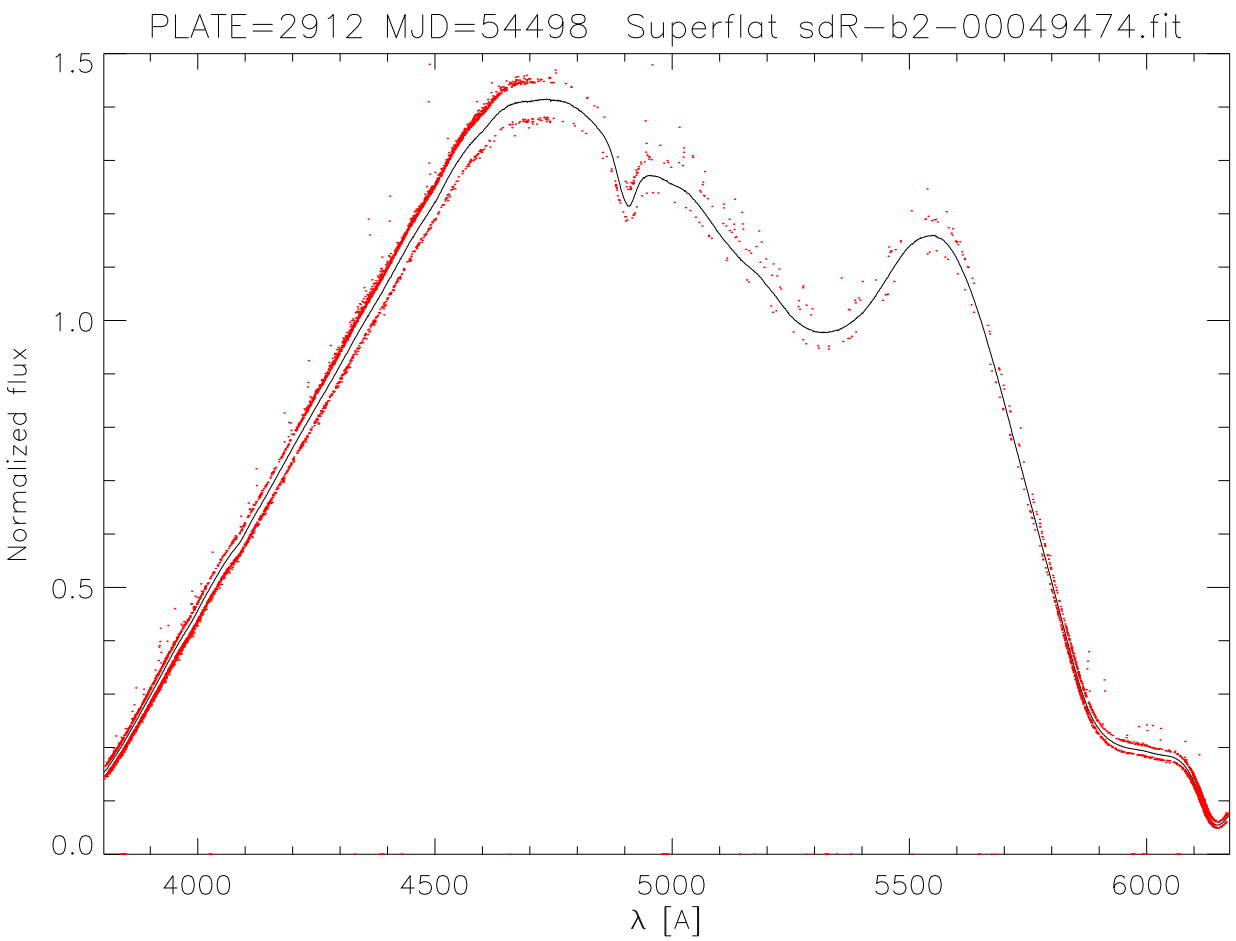

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

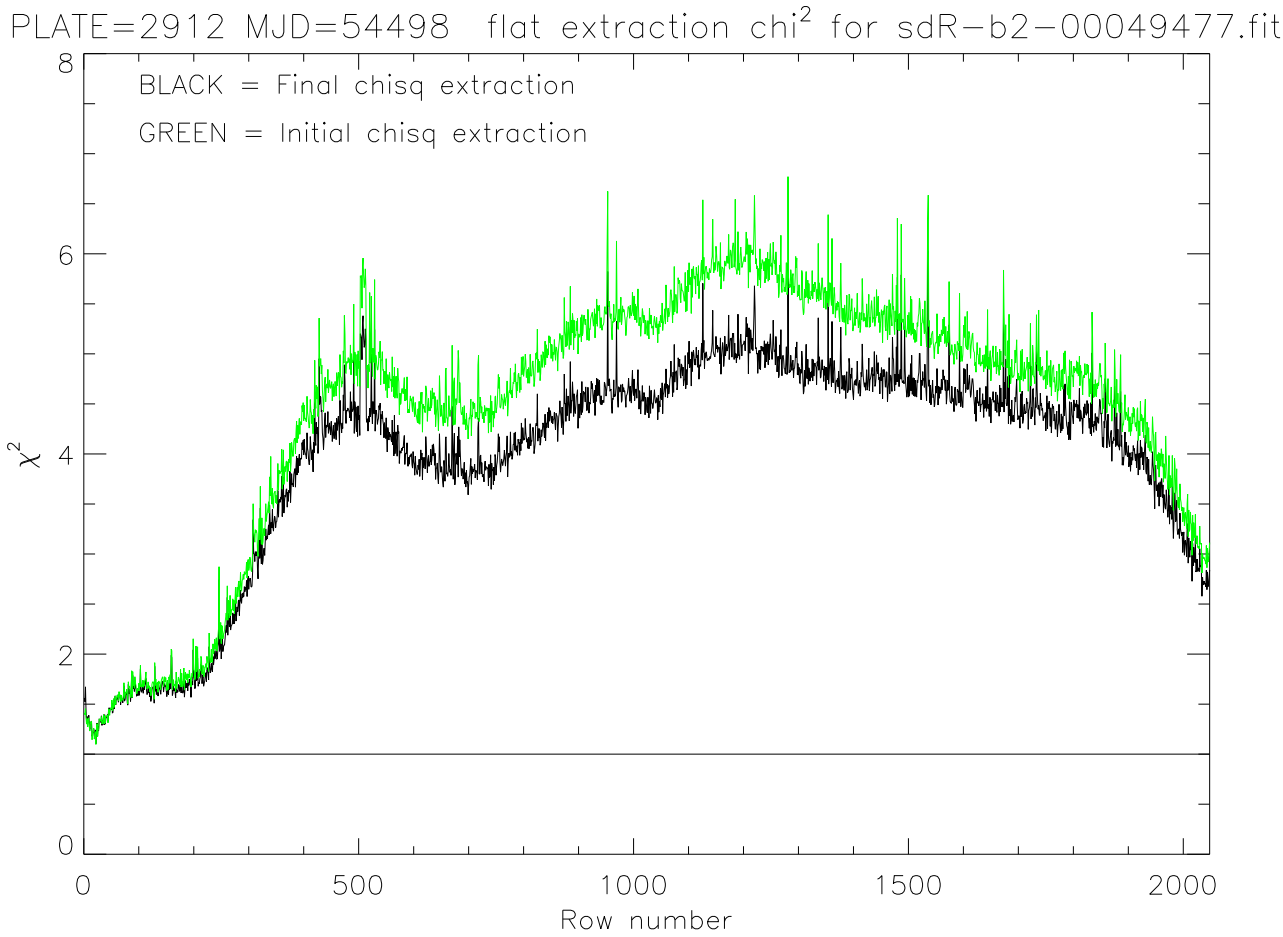

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

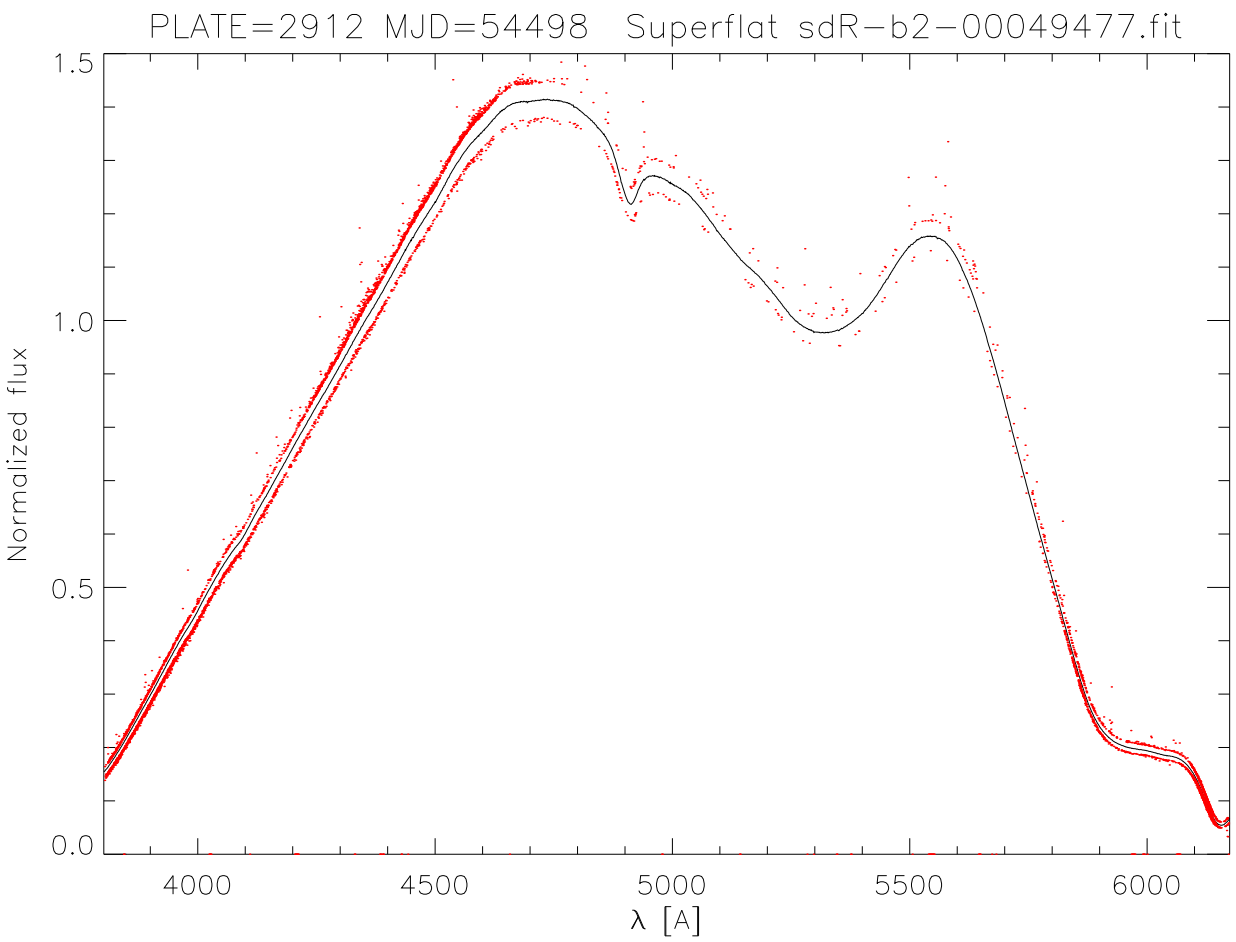

PLATE=2912 MJD=54498 flat extraction chi^2 for sdR−b2−00049469.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

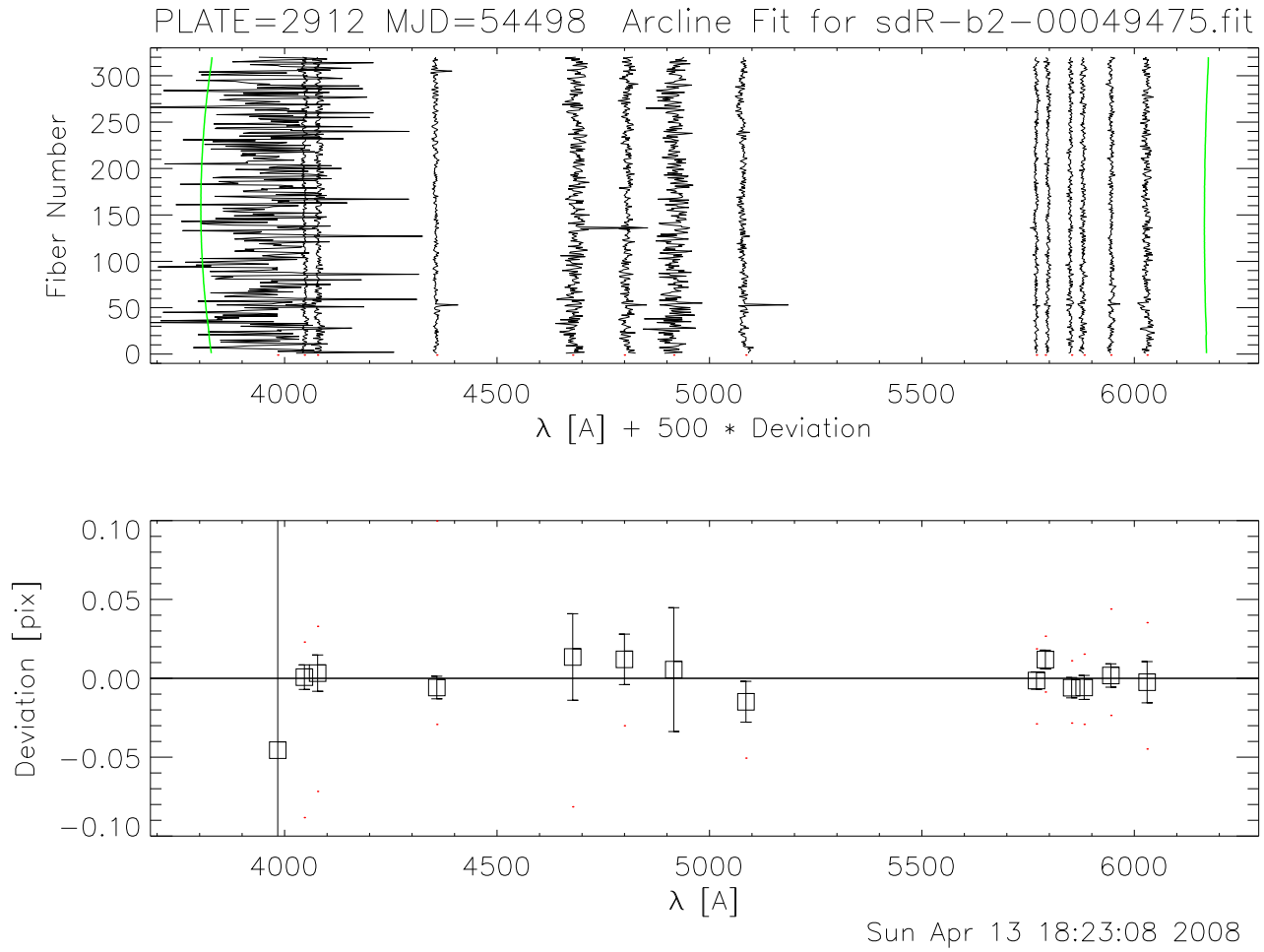

PLATE=2912 MJD=54498 Superflat sdR-b2-00049469.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

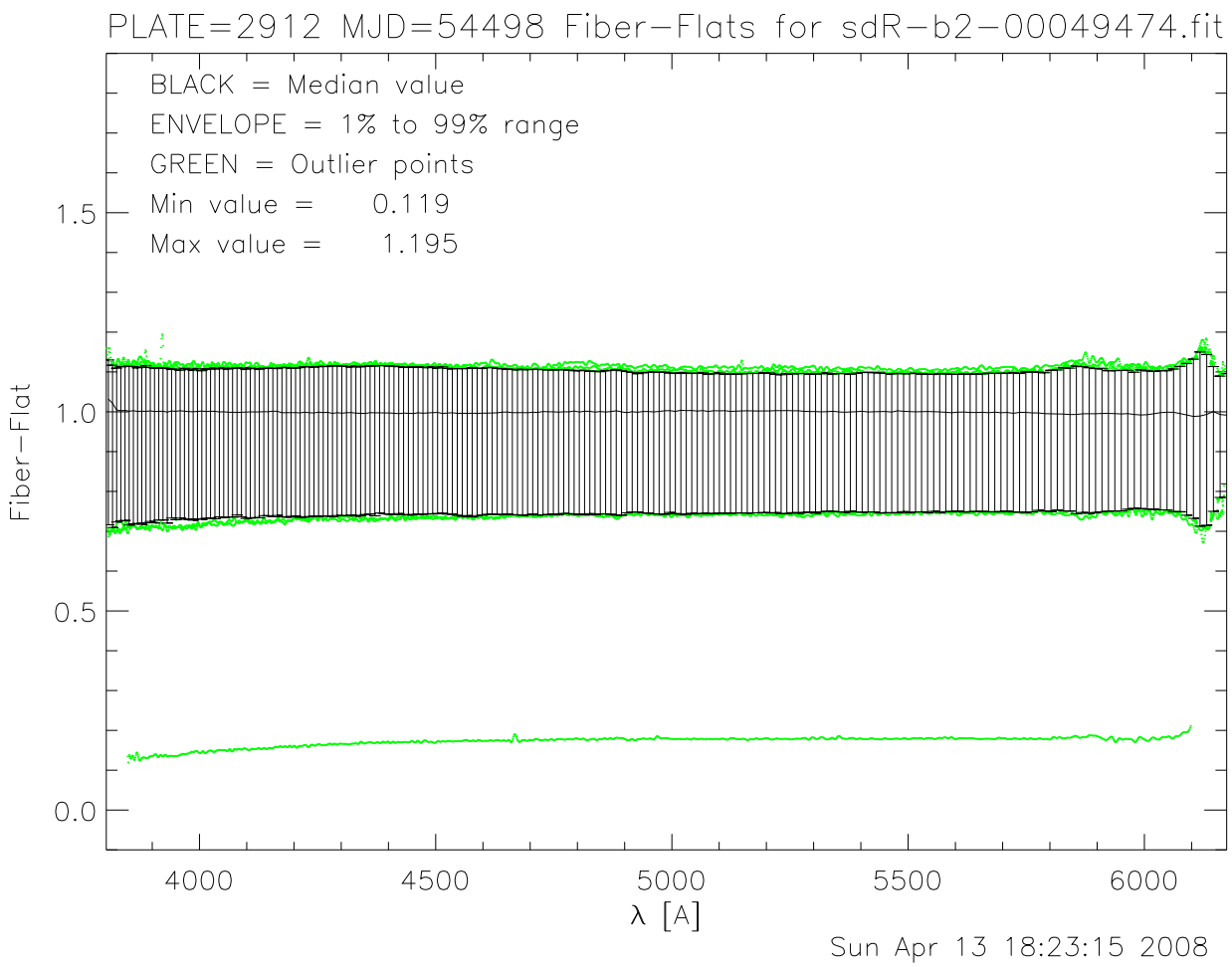

PLATE=2912 MJD=54498 flat extraction chi^2 for sdR−b2−00049474.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

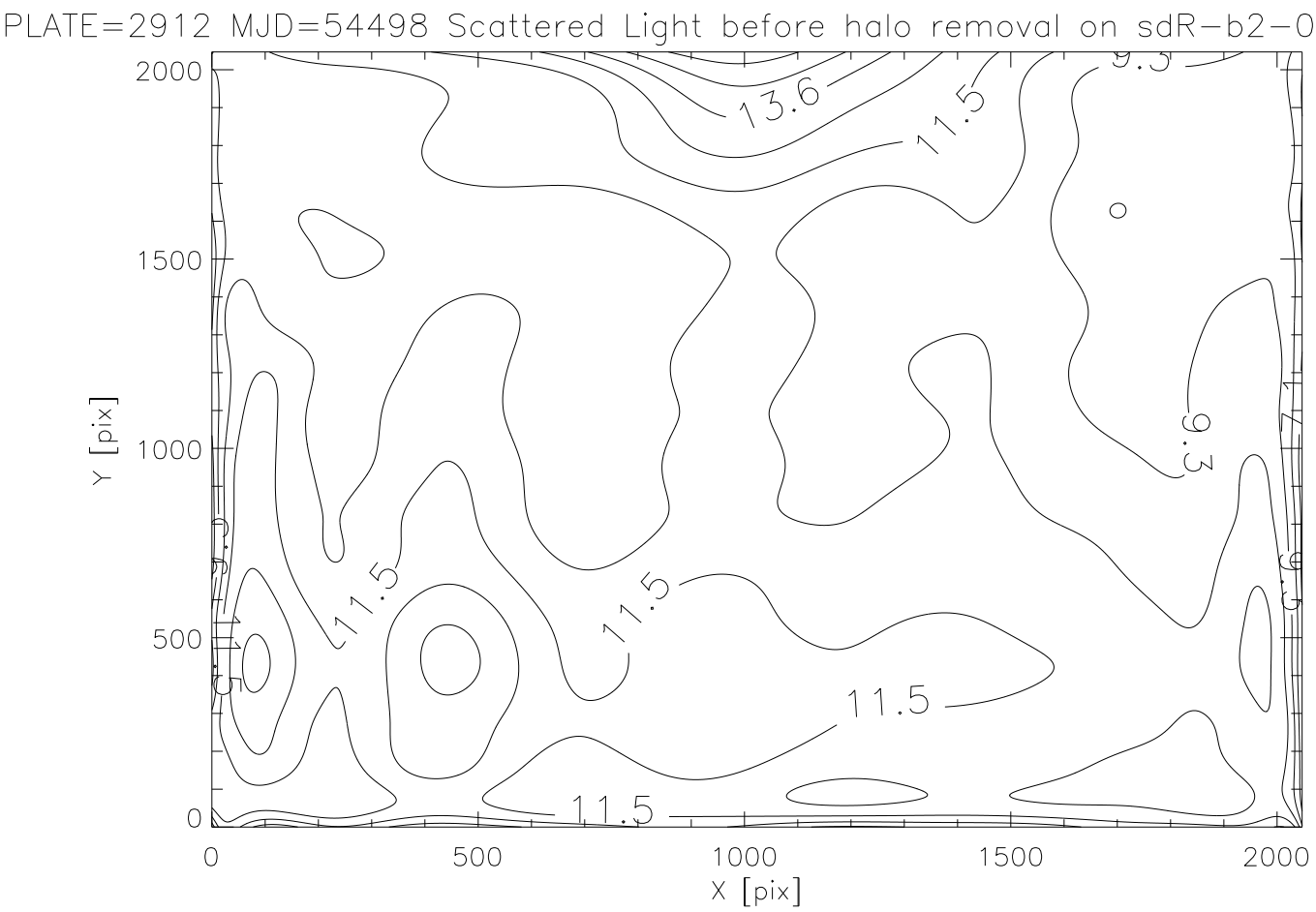

PLATE=2912 MJD=54498 Superflat sdR-b2-00049474.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

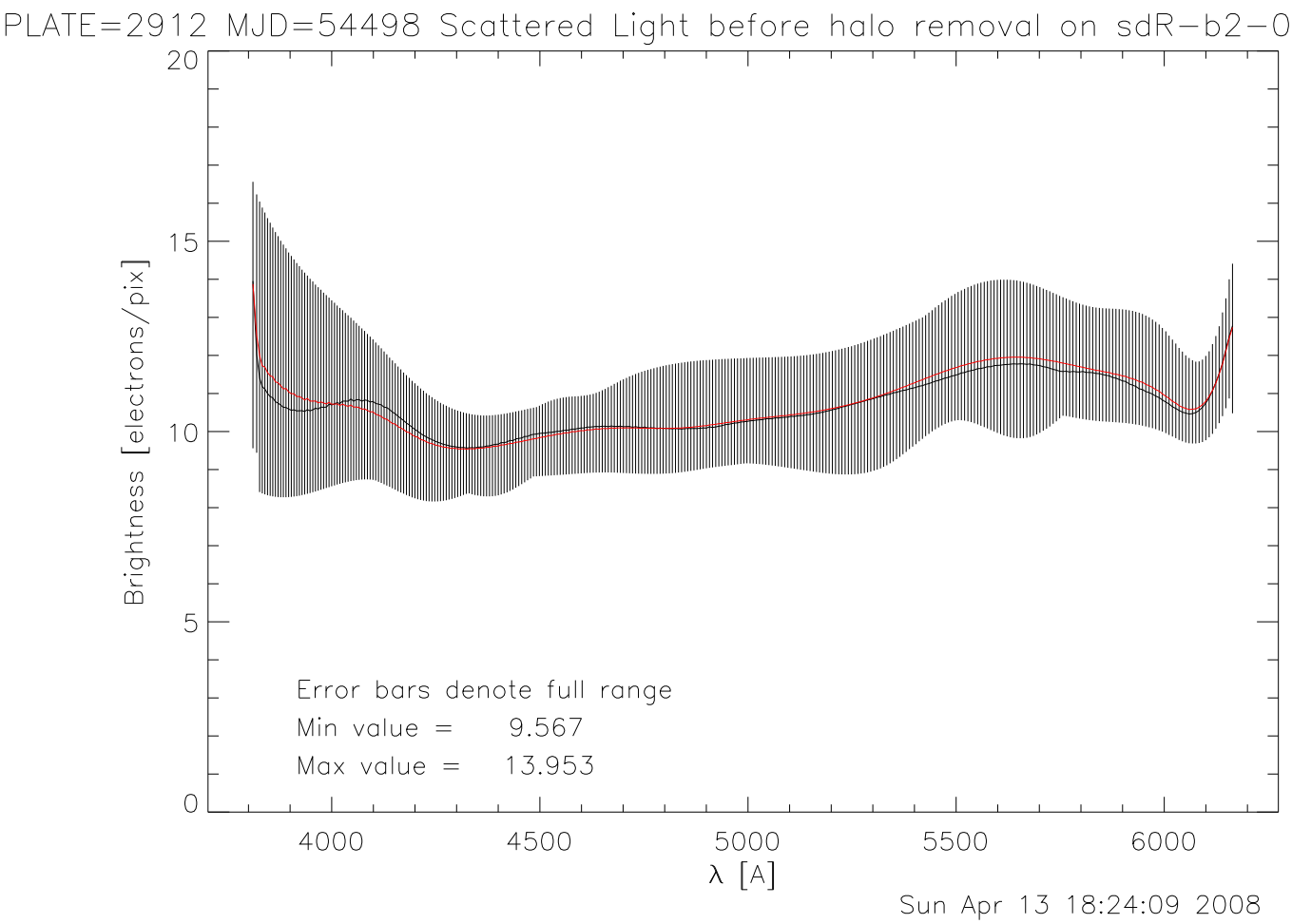

PLATE=2912 MJD=54498 flat extraction chi^2 for sdR-b2-00049477.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

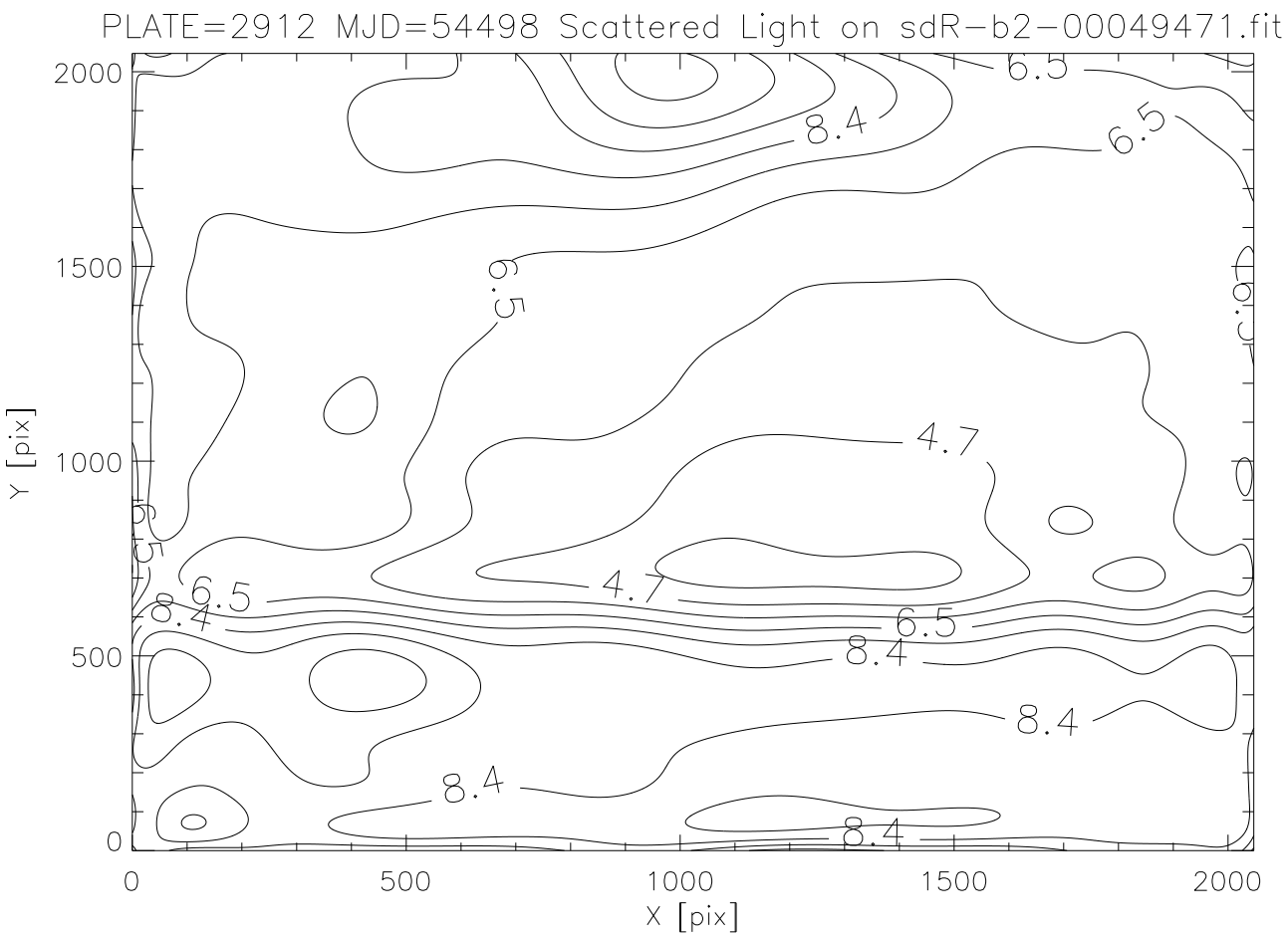

PLATE=2912 MJD=54498 Superflat sdR-b2-00049477.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

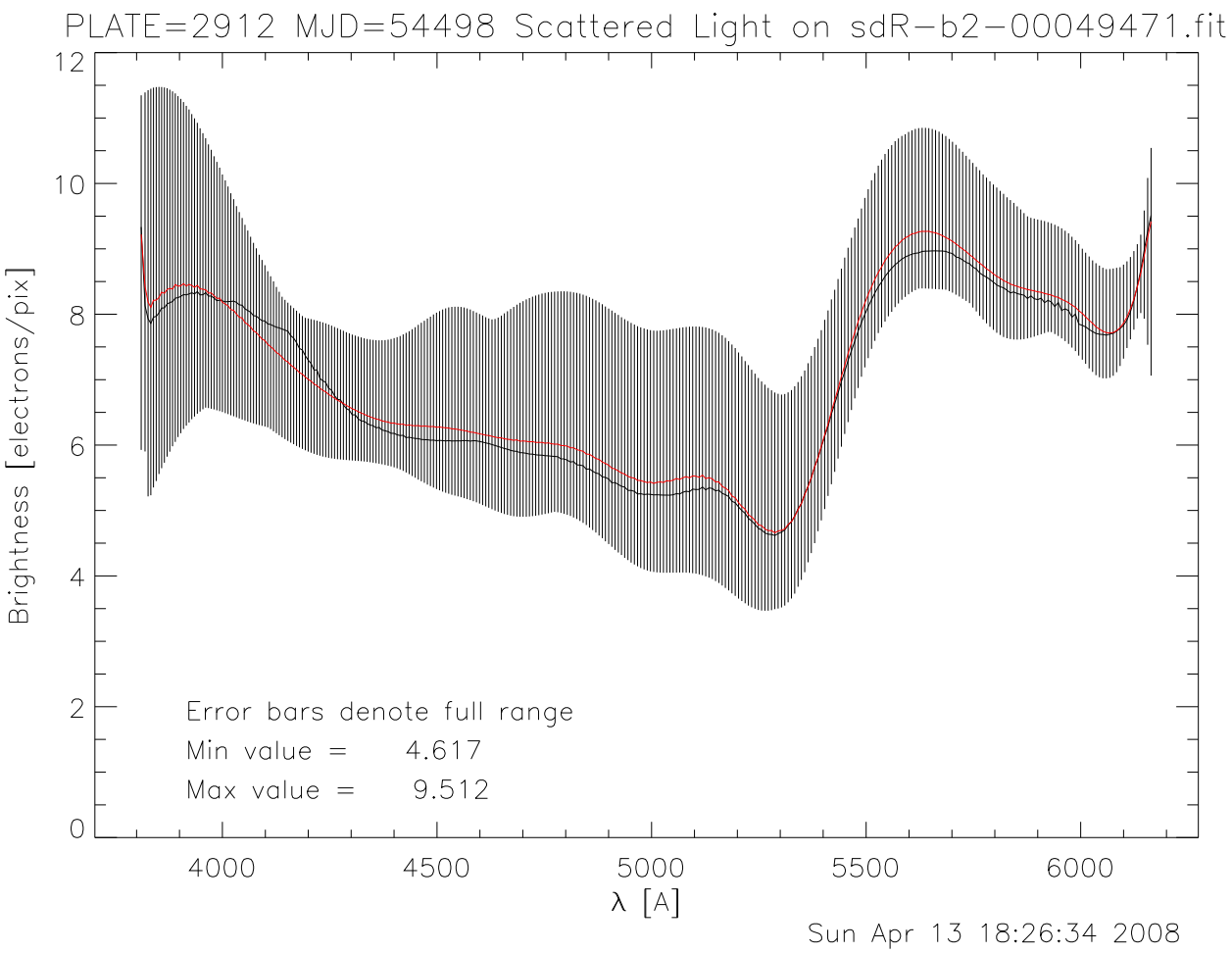

PLATE=2912 MJD=54498 Arcline Fit for sdR-b2-00049475.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 18:23:08 2008

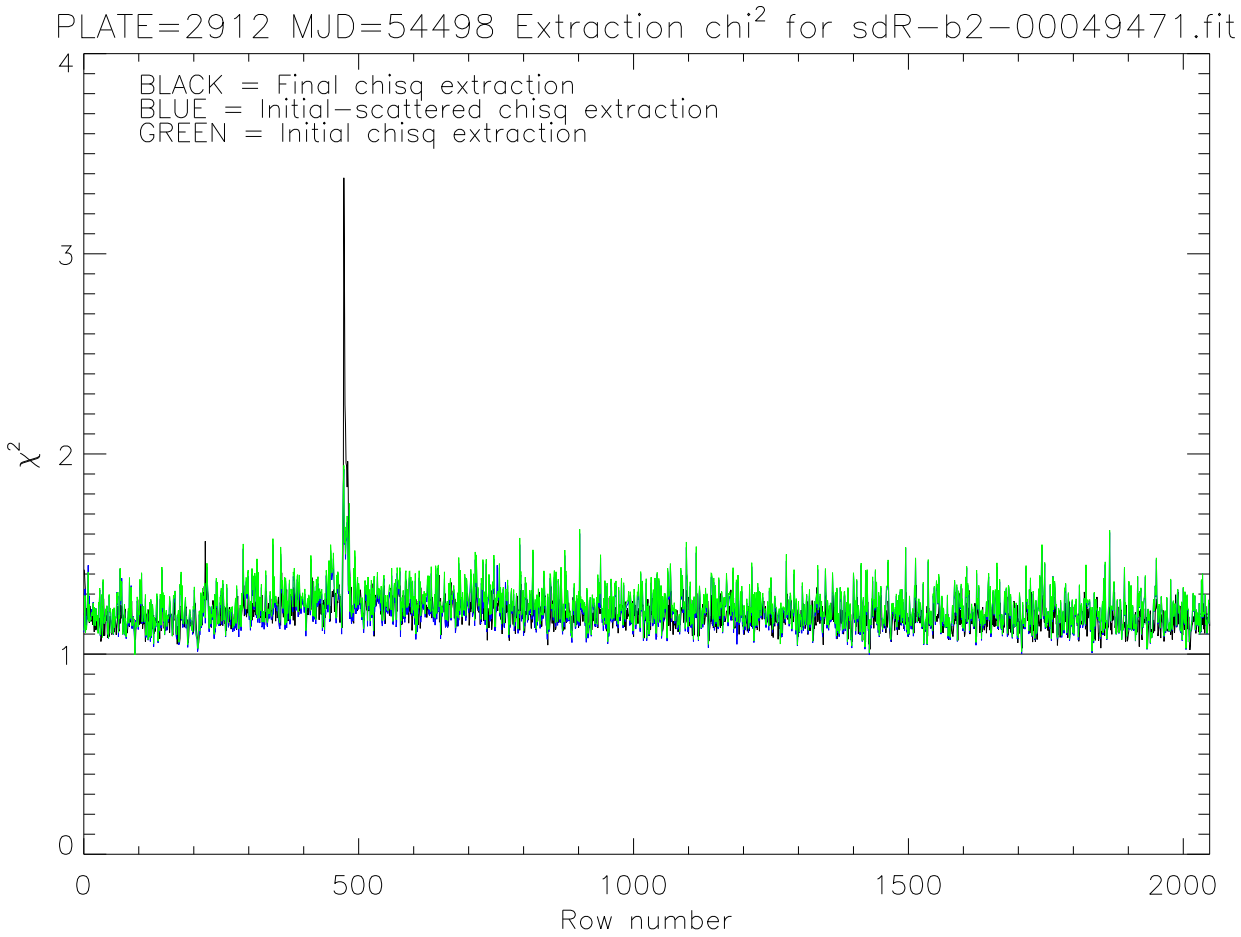

PLATE=2912 MJD=54498 Fiber-Flats for sdR-b2-00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.119
Max value = 1.195
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 18:23:15 2008

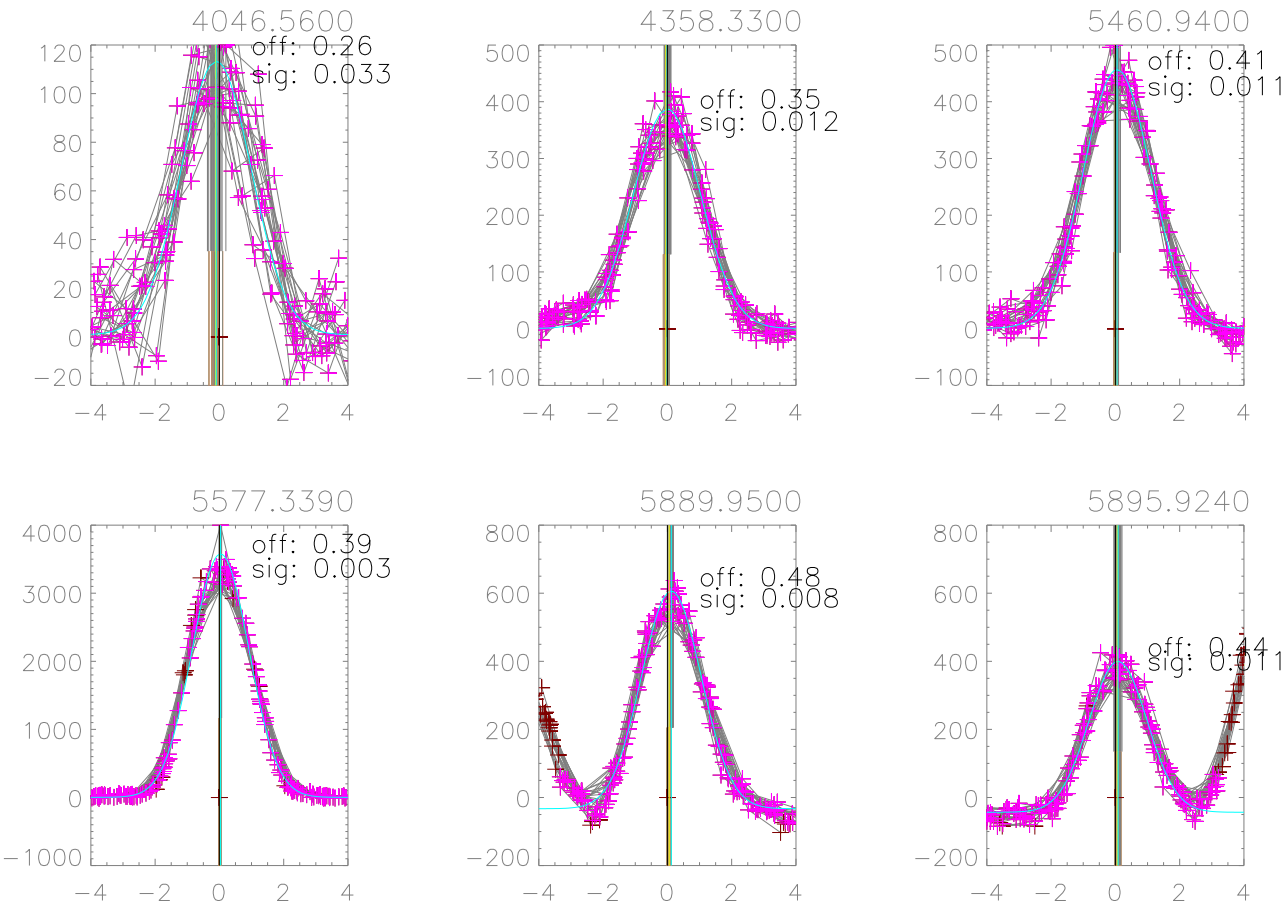

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR−b2−00049471.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
13.6
11.5
9.3
11.5
11.5
11.5
11.5
9.3
9.3

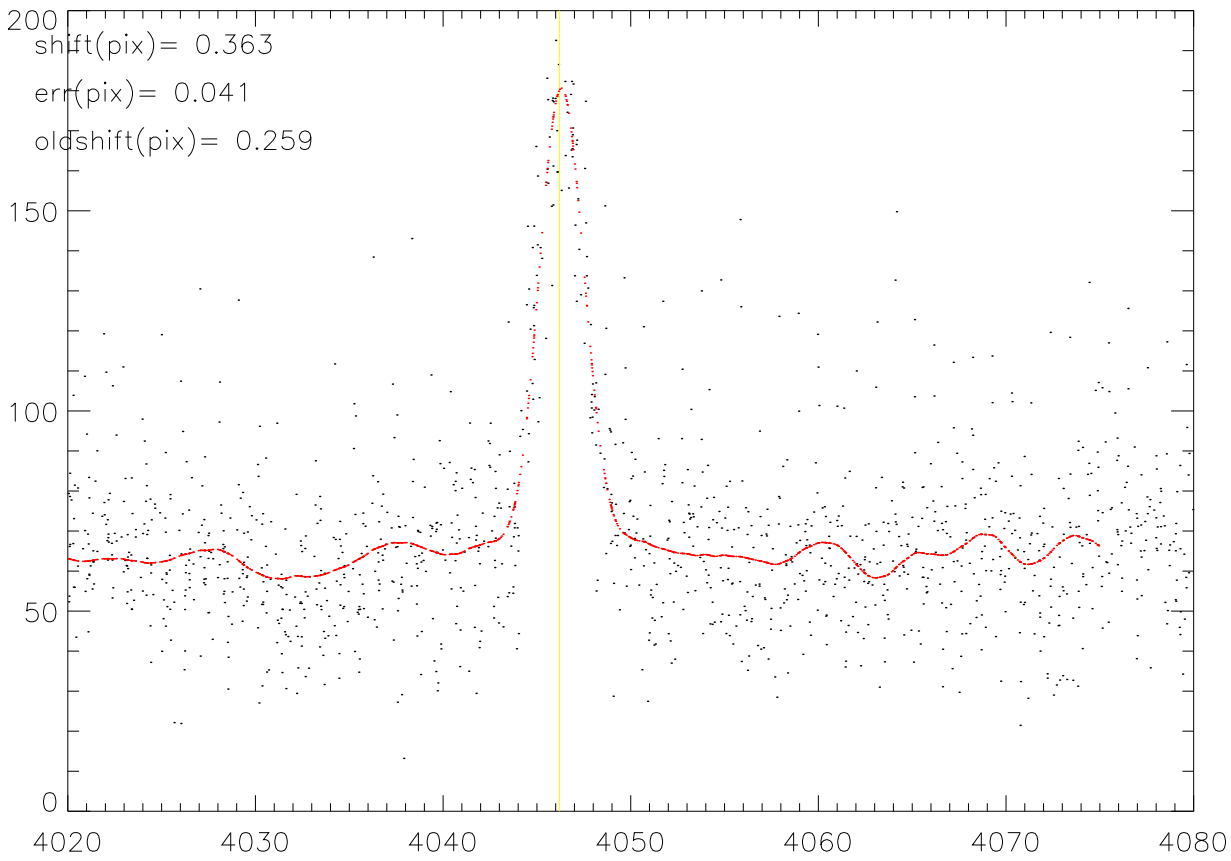

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-b2-00049471.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 9.567
Max value = 13.953
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 18:24:09 2008

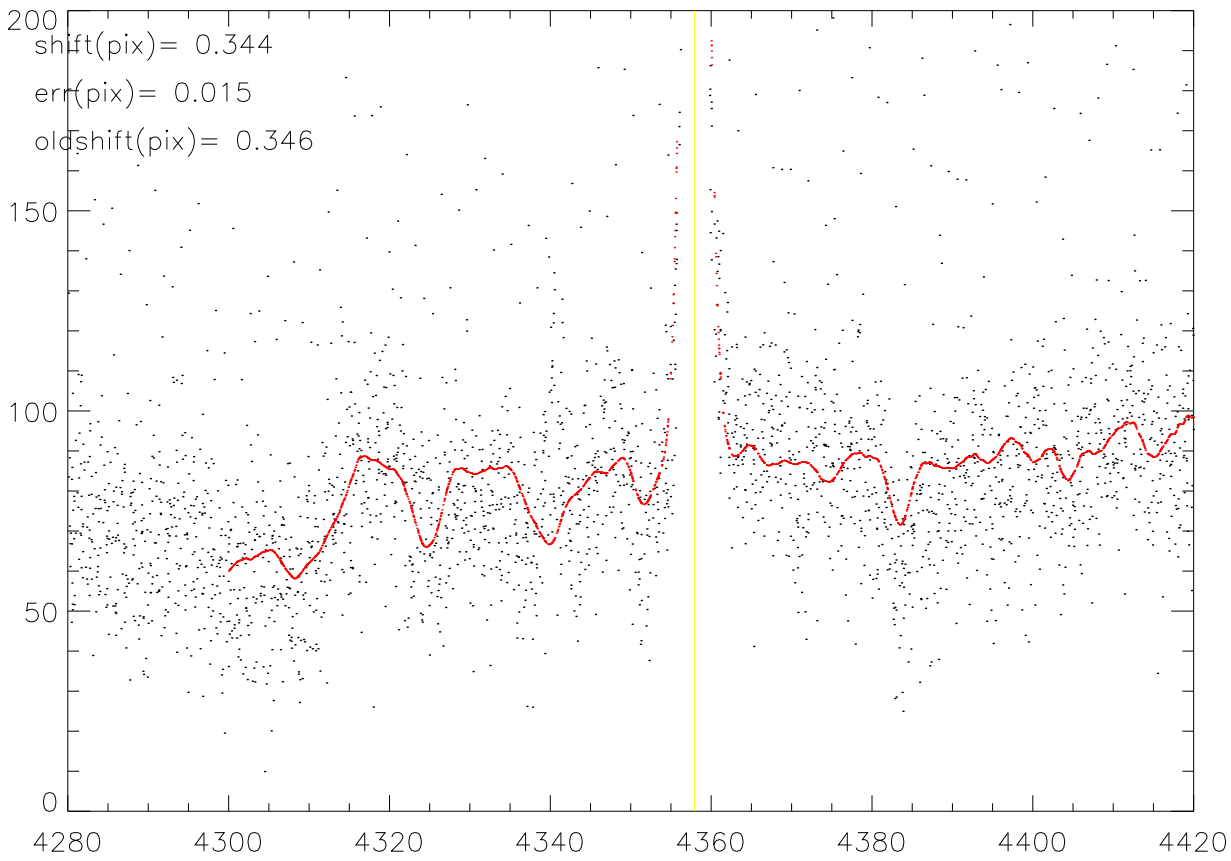

PLATE=2912 MJD=54498 Scattered Light on sdR-b2-00049471.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.5
8.4
4.7

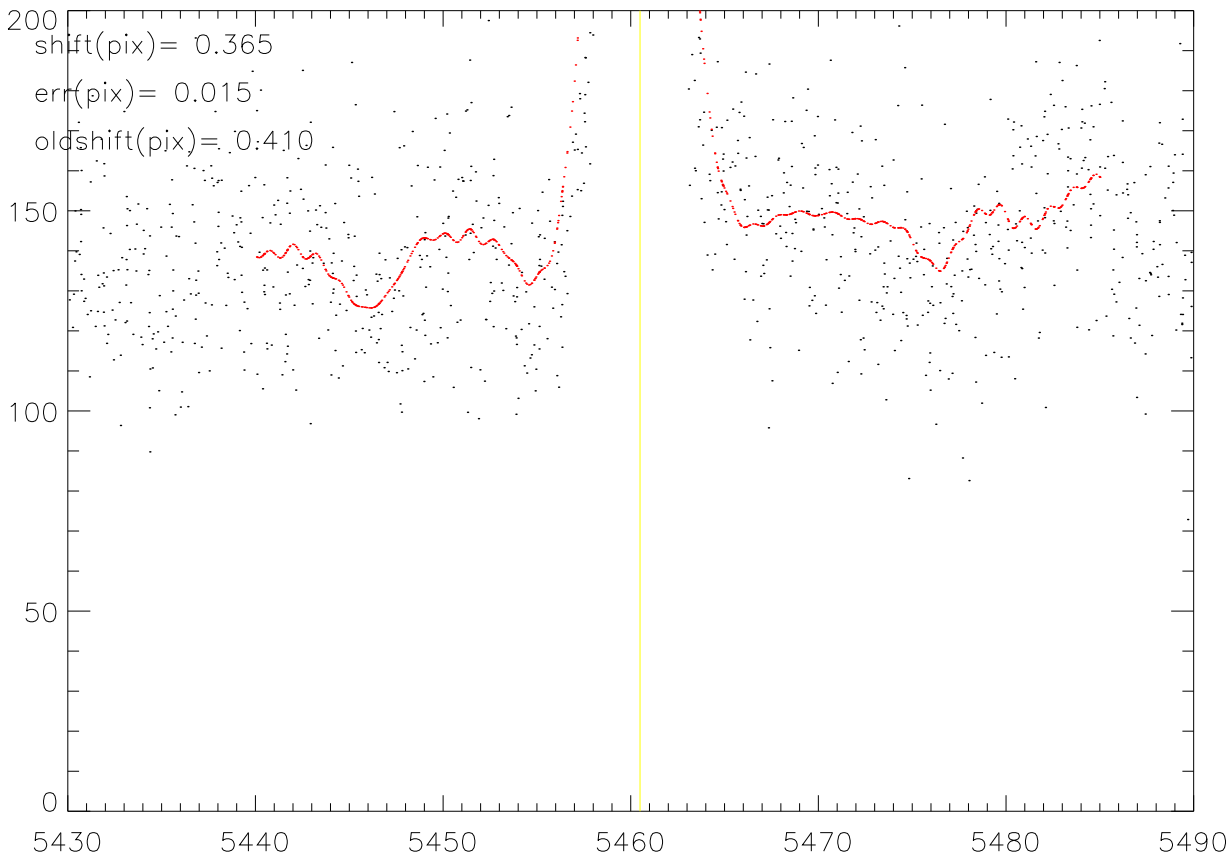

PLATE=2912 MJD=54498 Scattered Light on sdR-b2-00049471.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.617
Max value = 9.512
Sun Apr 13 18:26:34 2008

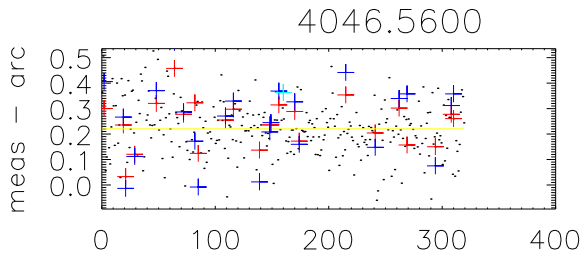

PLATE=2912 MJD=54498 Extraction chi^2 for sdR-b2-00049471.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

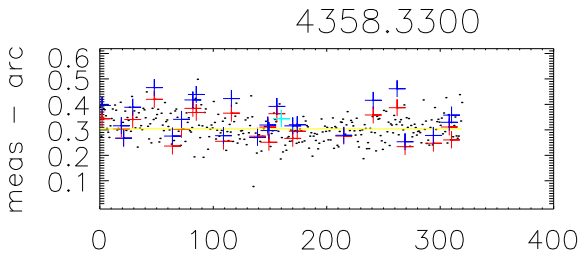

4046.5600
off: 0.26
sig: 0.033
4358.3300
off: 0.35
sig: 0.012
5460.9400
off: 0.41
sig: 0.011
5577.3390
off: 0.39
sig: 0.003
5889.9500
off: 0.48
sig: 0.008
5895.9240
off: 0.44
sig: 0.011

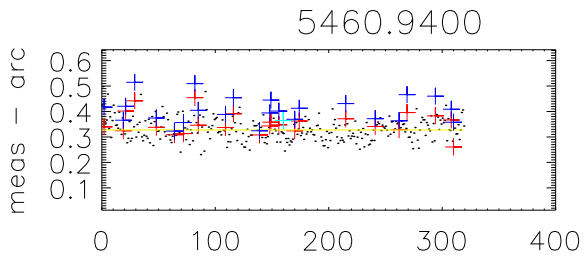

shift(pix)= 0.363
err(pix)= 0.041
oldshift(pix)= 0.259
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

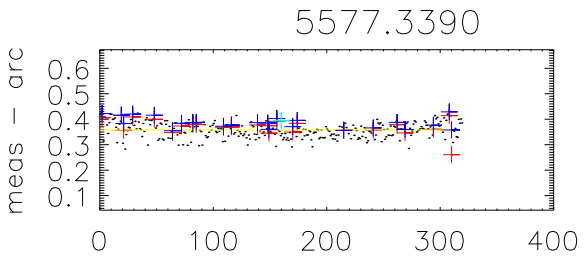

shift(pix)= 0.344
err(pix)= 0.015
oldshift(pix)= 0.346
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

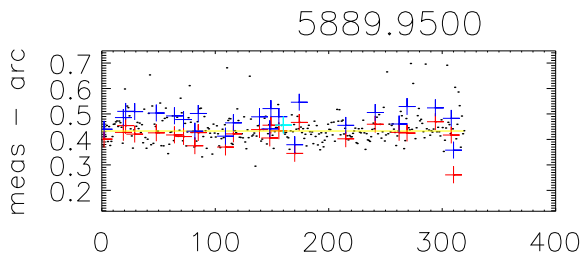

shift(pix)= 0.365
err(pix)= 0.015
oldshift(pix)= 0.410
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

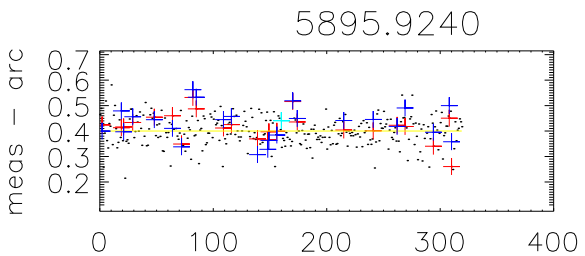

4046.5600
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

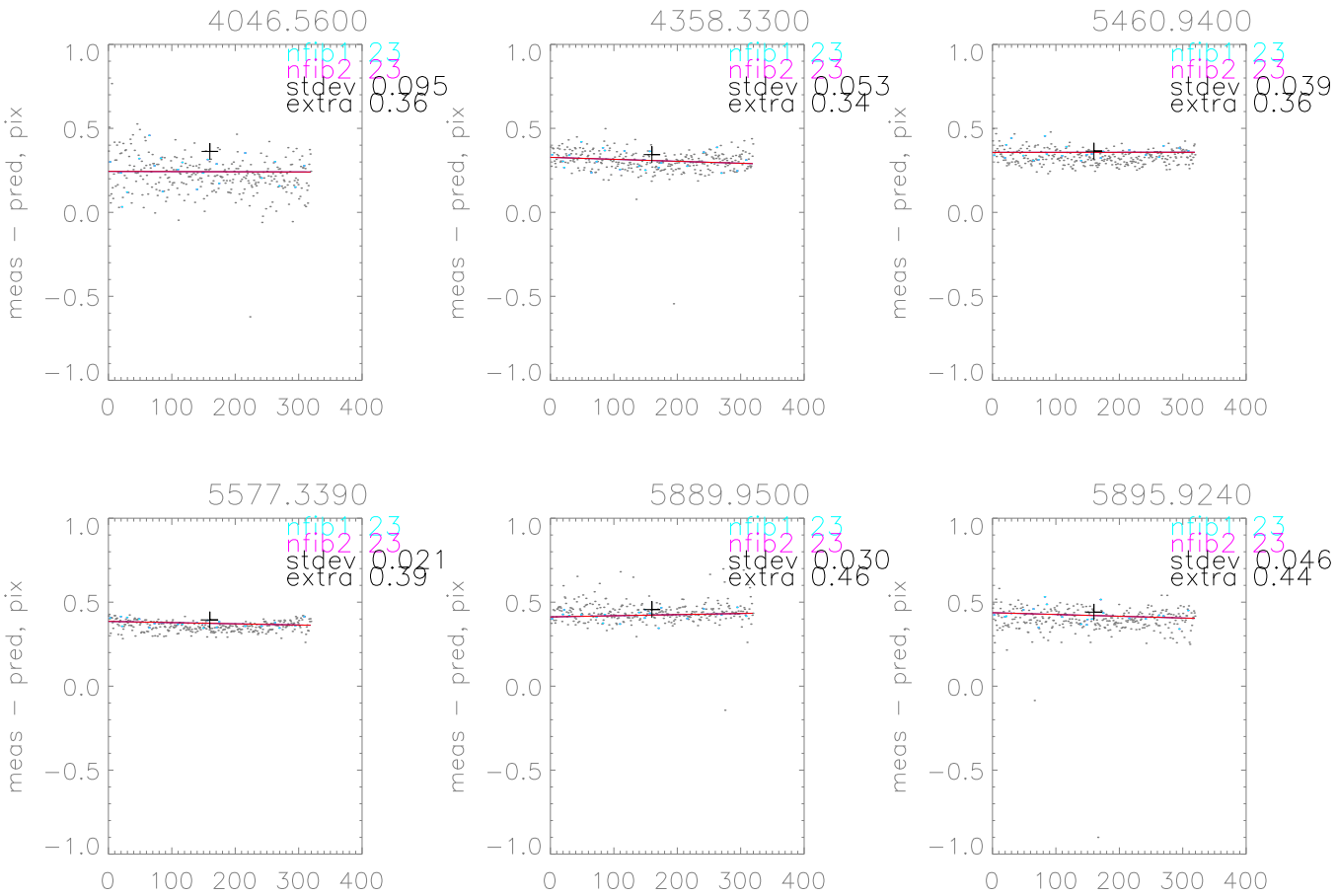

4358.3300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

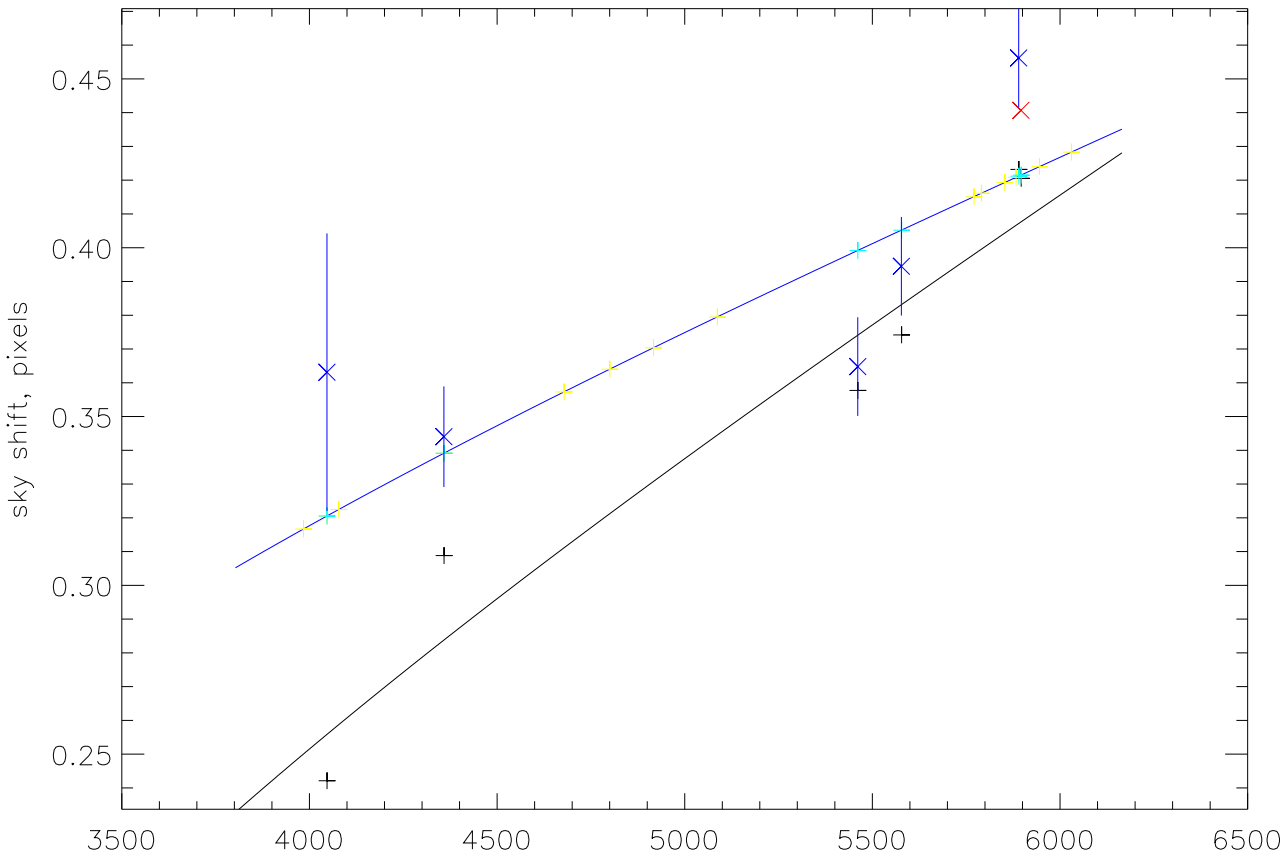

5460.9400
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

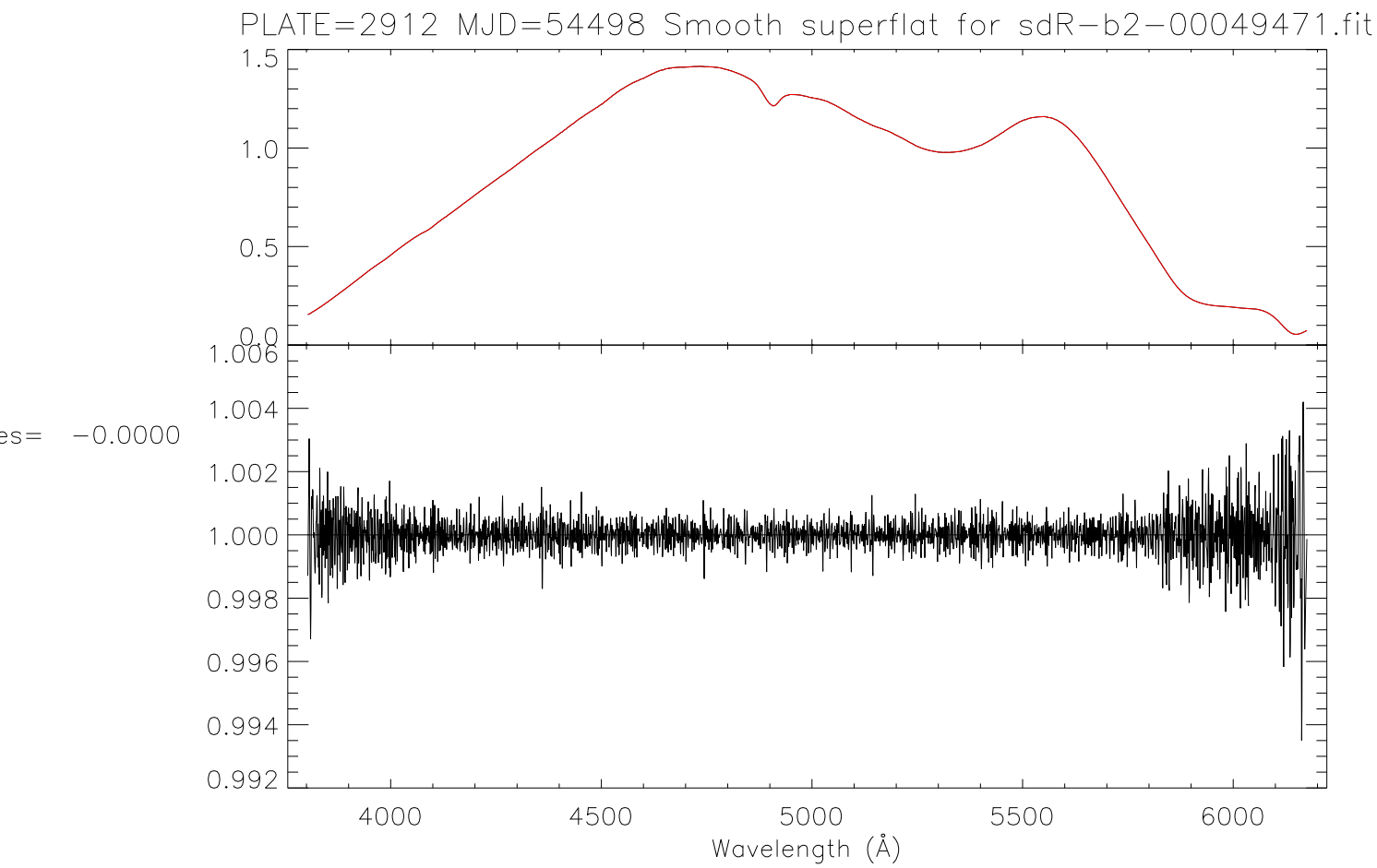

5577.3390
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


5889.9500
meas − arc
0.2
0.3
0.4
0.5
0.6
0.7
0
100
200
300
400

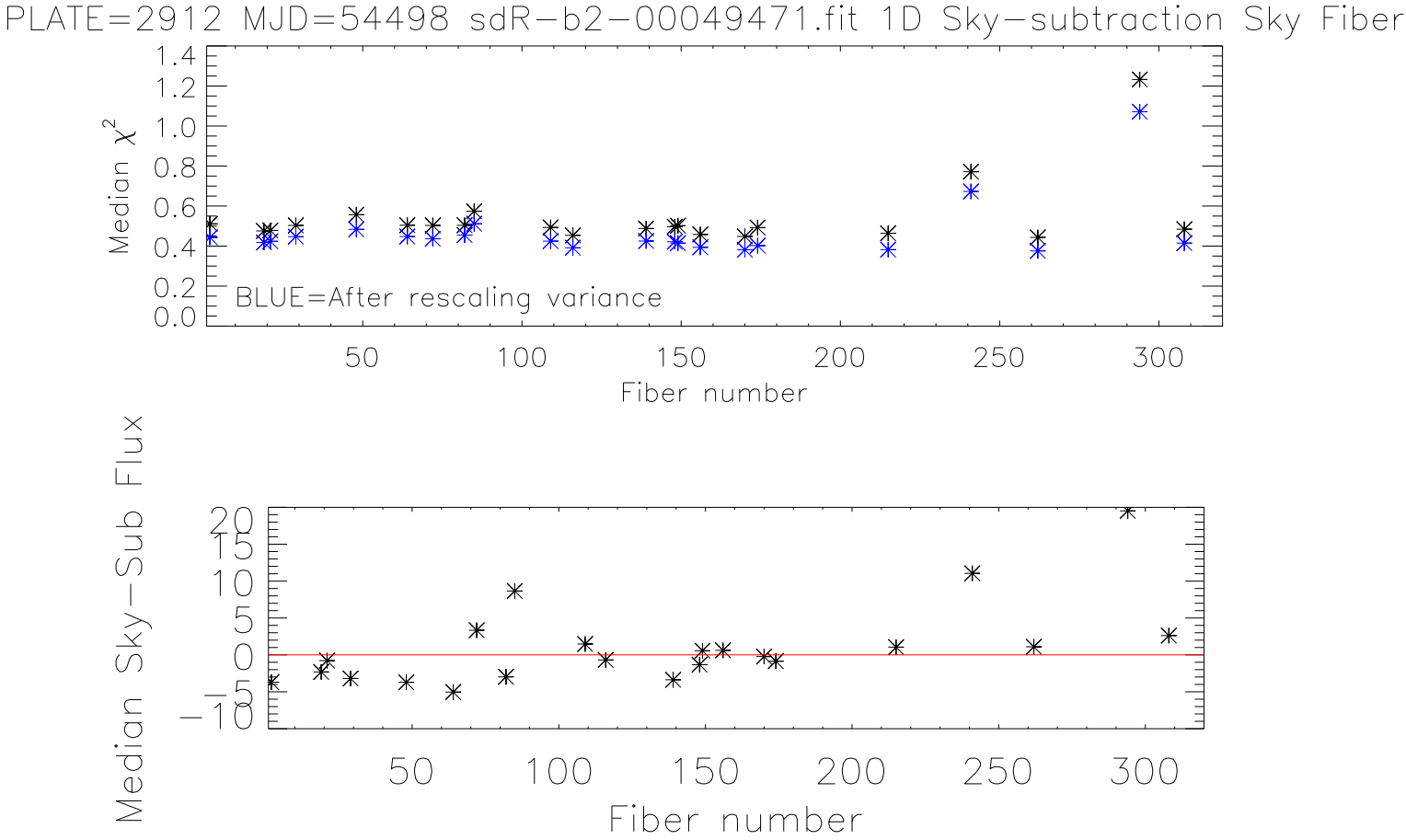

5895.9240
meas − arc
0.2
0.3
0.4
0.5
0.6
0.7
0
100
200
300
400

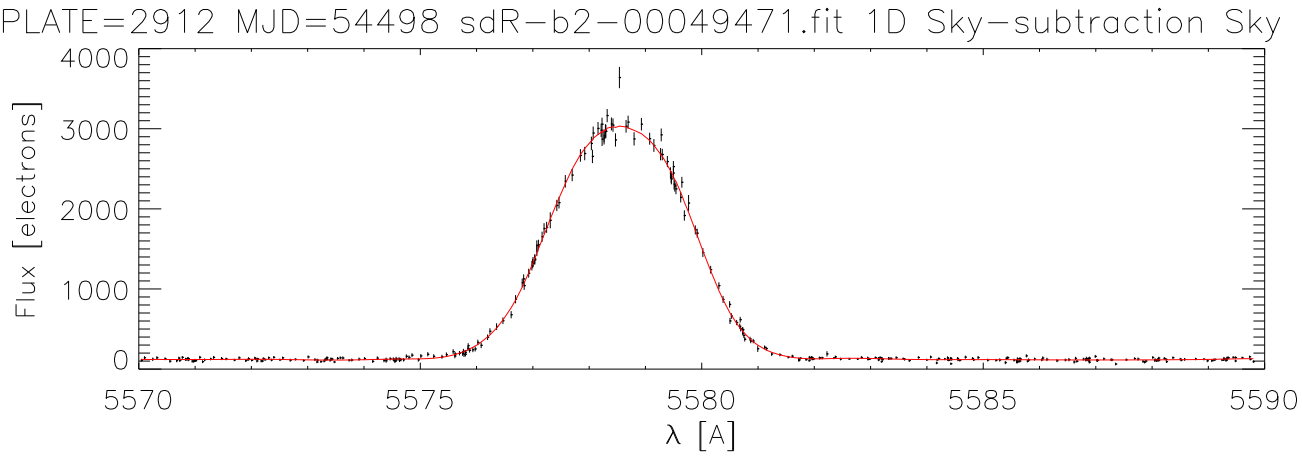

4046.5600
nfib1 23
nfib2 23
stdev 0.095
extra 0.36
4358.3300
nfib1 23
nfib2 23
stdev 0.053
extra 0.34
5460.9400
nfib1 23
nfib2 23
stdev 0.039
extra 0.36
5577.3390
nfib1 23
nfib2 23
stdev 0.021
extra 0.39
5889.9500
nfib1 23
nfib2 23
stdev 0.030
extra 0.46
5895.9240
nfib1 23
nfib2 23
stdev 0.046
extra 0.44
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

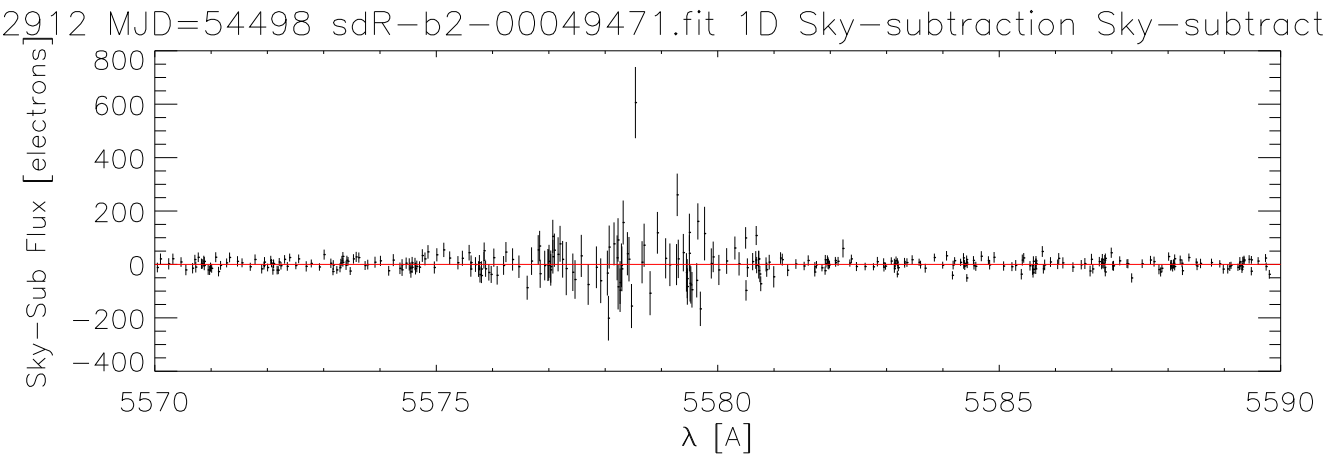

sky shift, pixels
0.45
0.40
0.35
0.30
0.25
3500
4000
4500
5000
5500
6000
6500

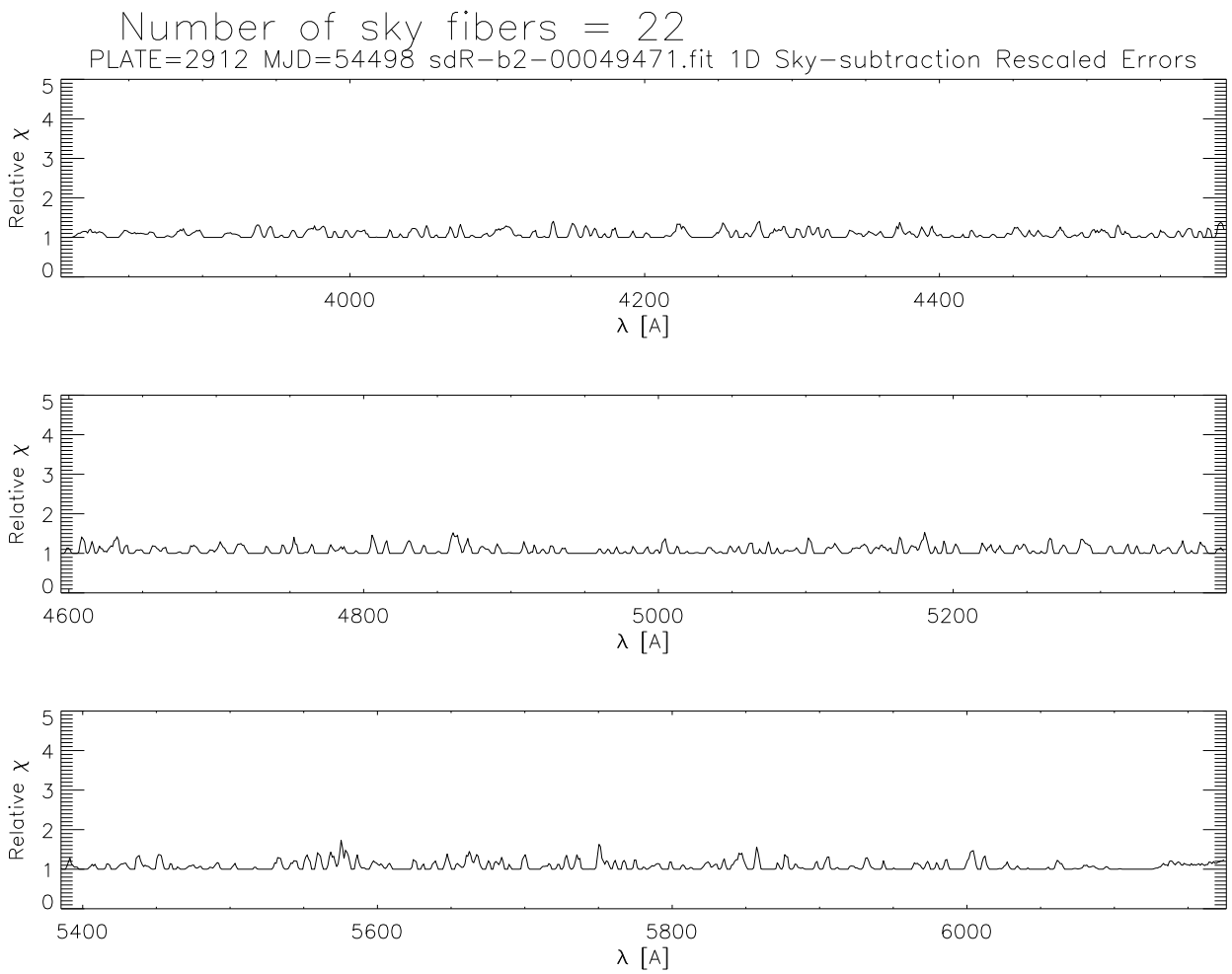

PLATE=2912 MJD=54498 Smooth superflat for sdR-b2-00049471.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

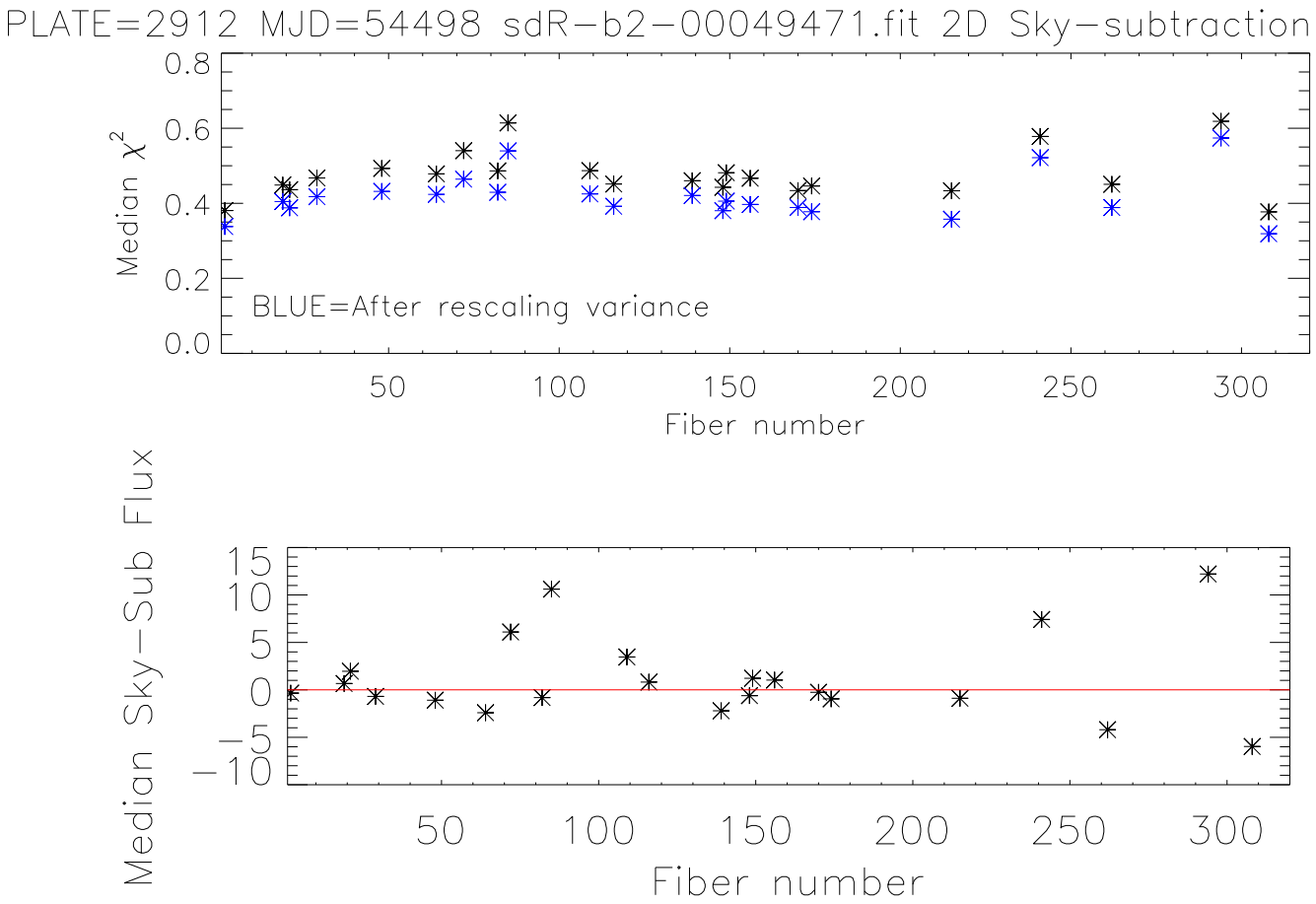
es= −0.0000

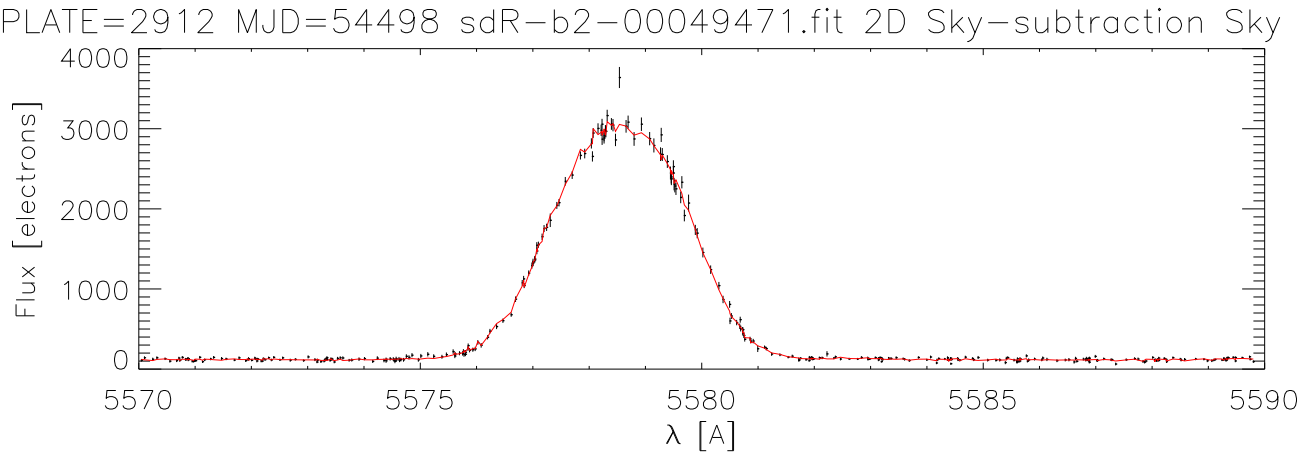

PLATE=2912 MJD=54498 sdR-b2-00049471.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

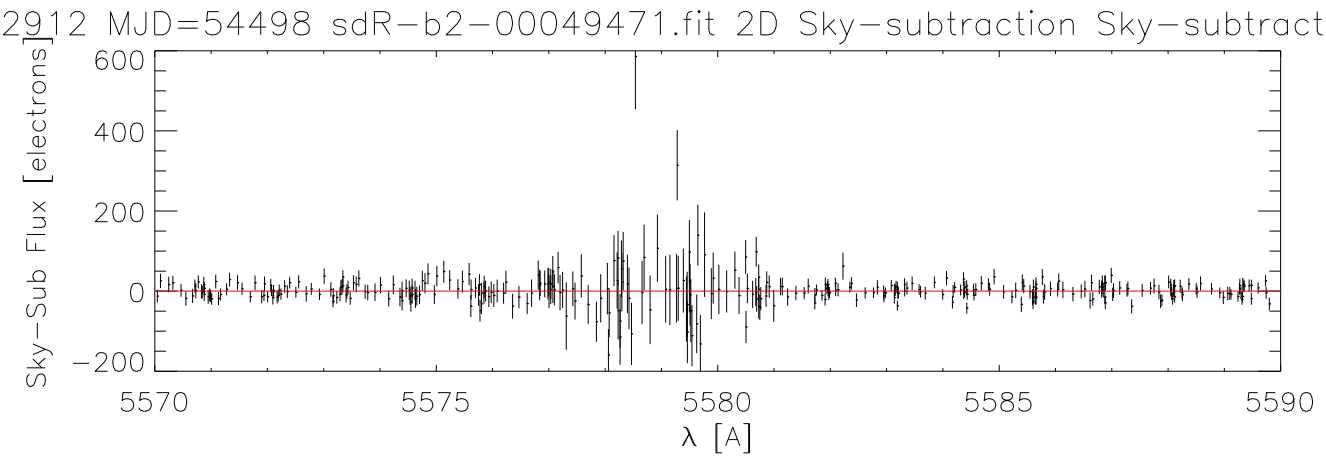

PLATE=2912 MJD=54498 sdR-b2-00049471.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

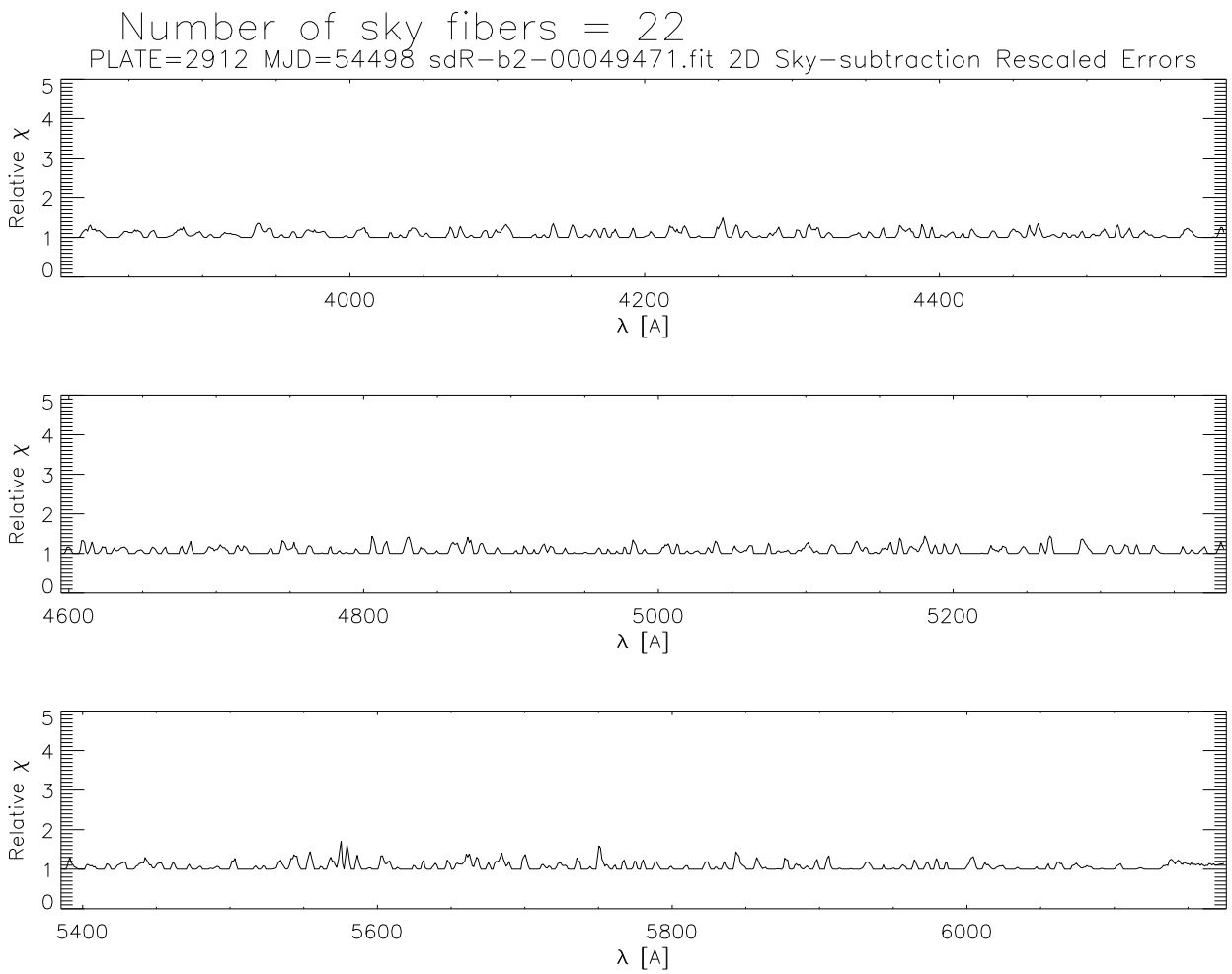

PLATE=2912 MJD=54498 sdR-b2-00049471.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

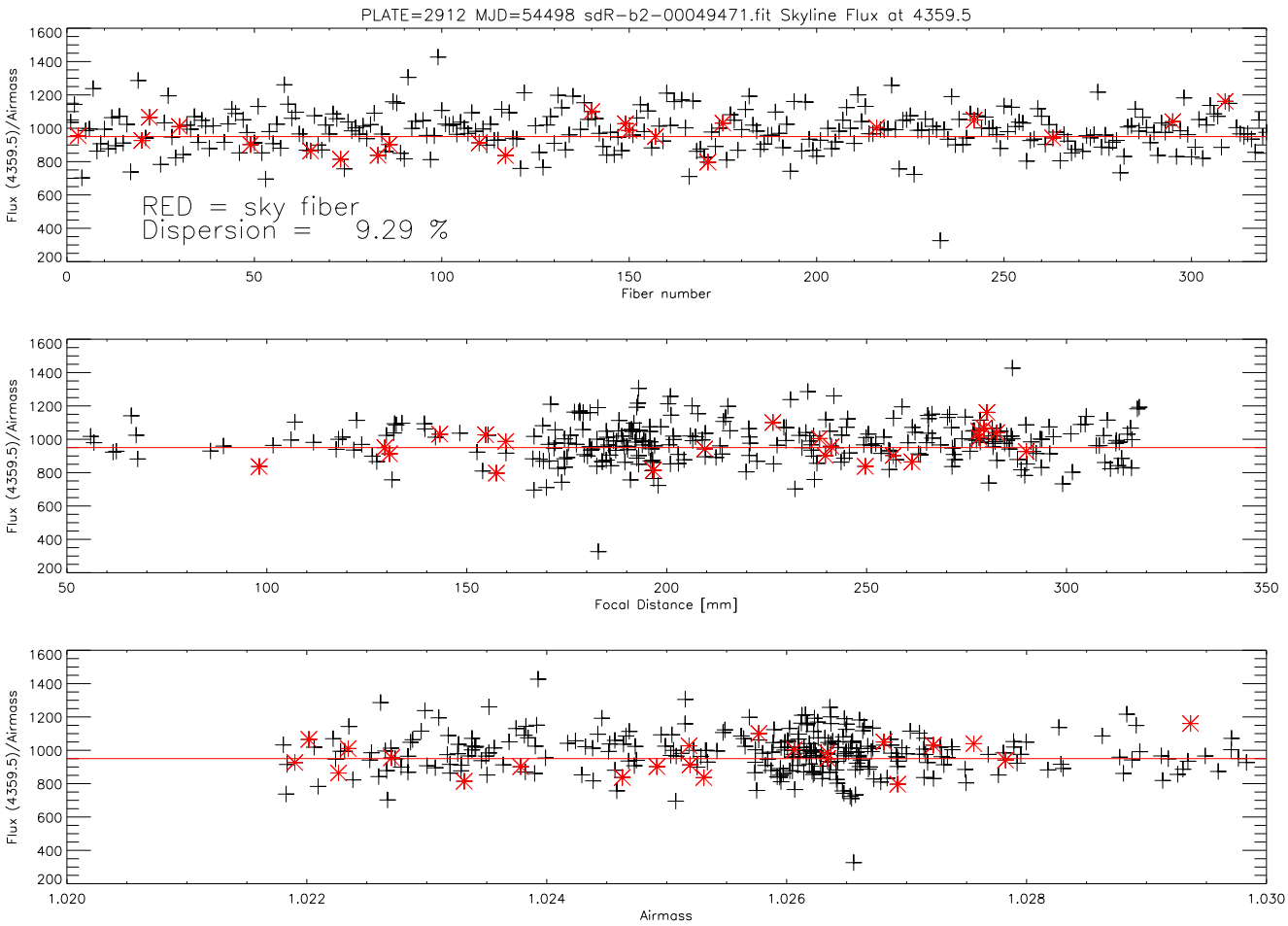

Number of sky fibers = 22
PLATE=2912 MJD=54498 sdR-b2-00049471.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

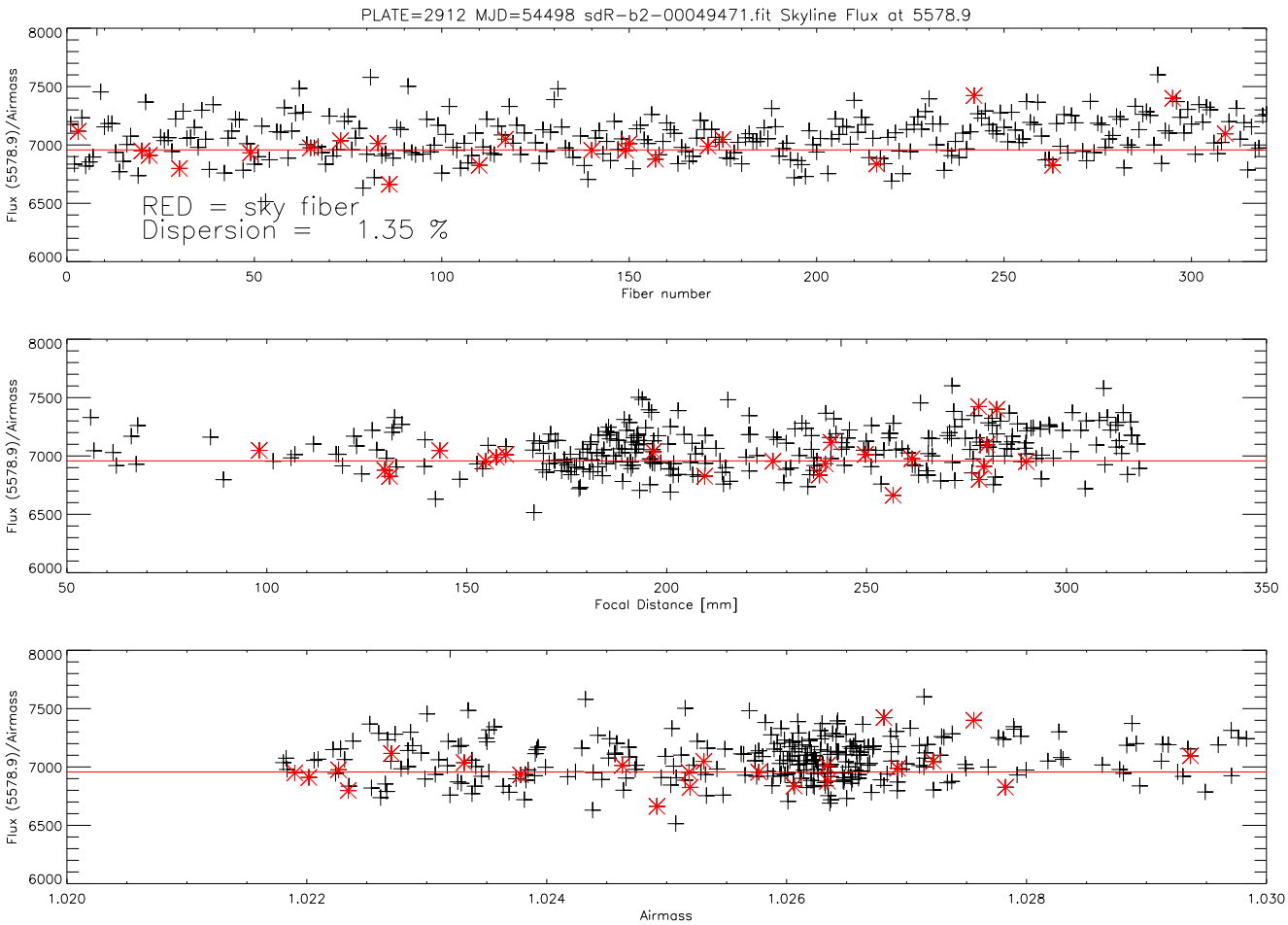

PLATE=2912 MJD=54498 sdR-b2-00049471.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

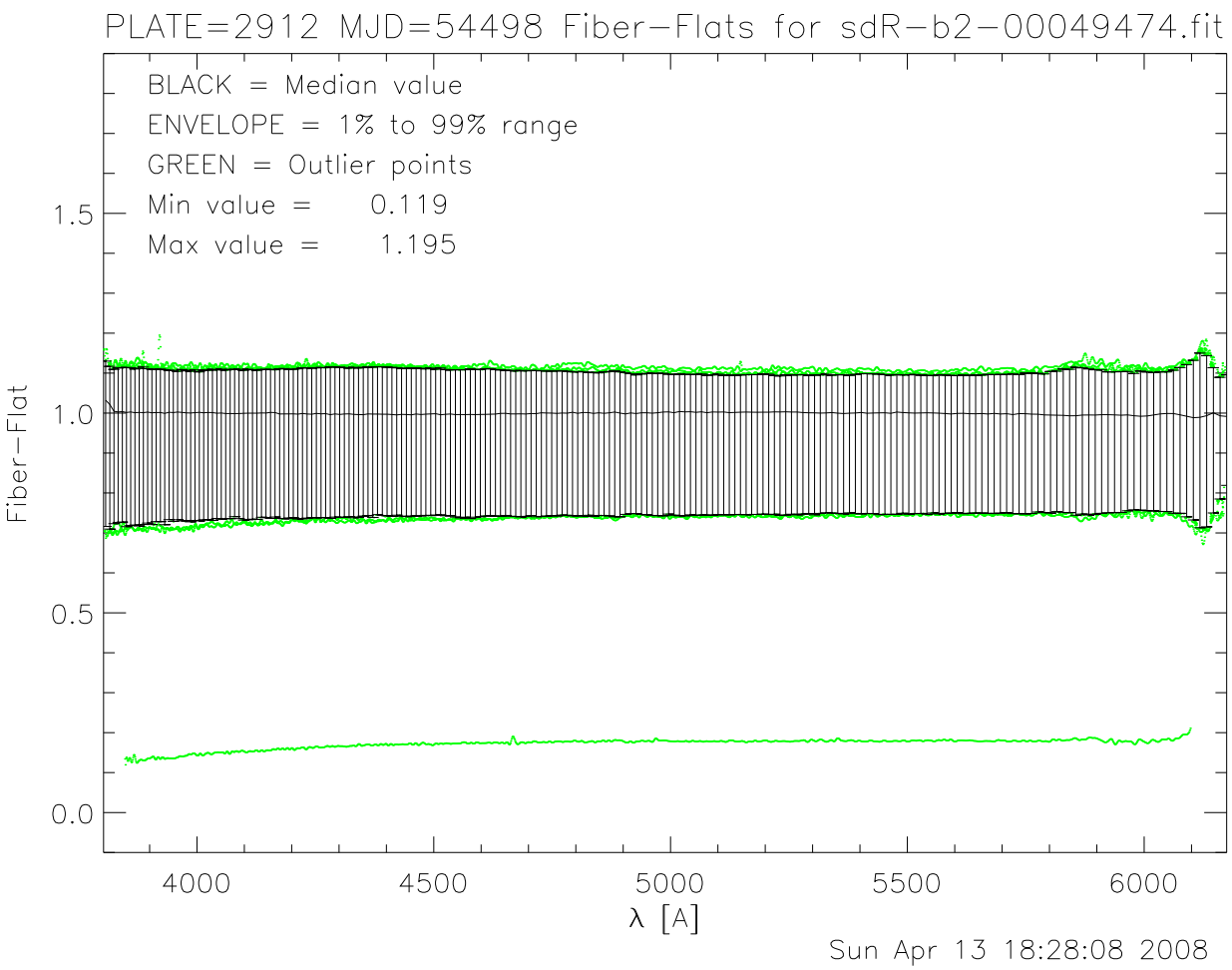

PLATE=2912 MJD=54498 sdR-b2-00049471.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

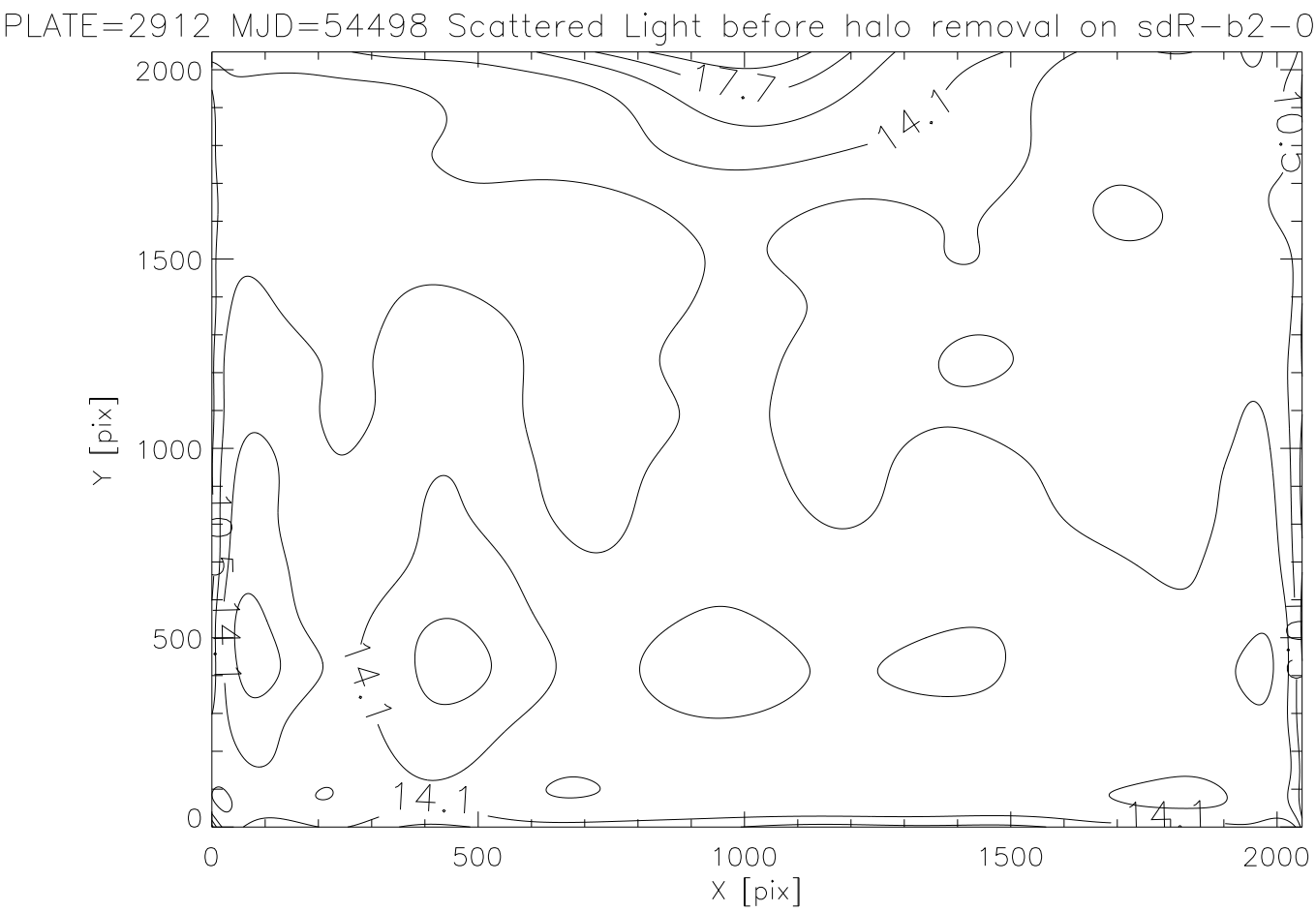

PLATE=2912 MJD=54498 sdR-b2-00049471.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

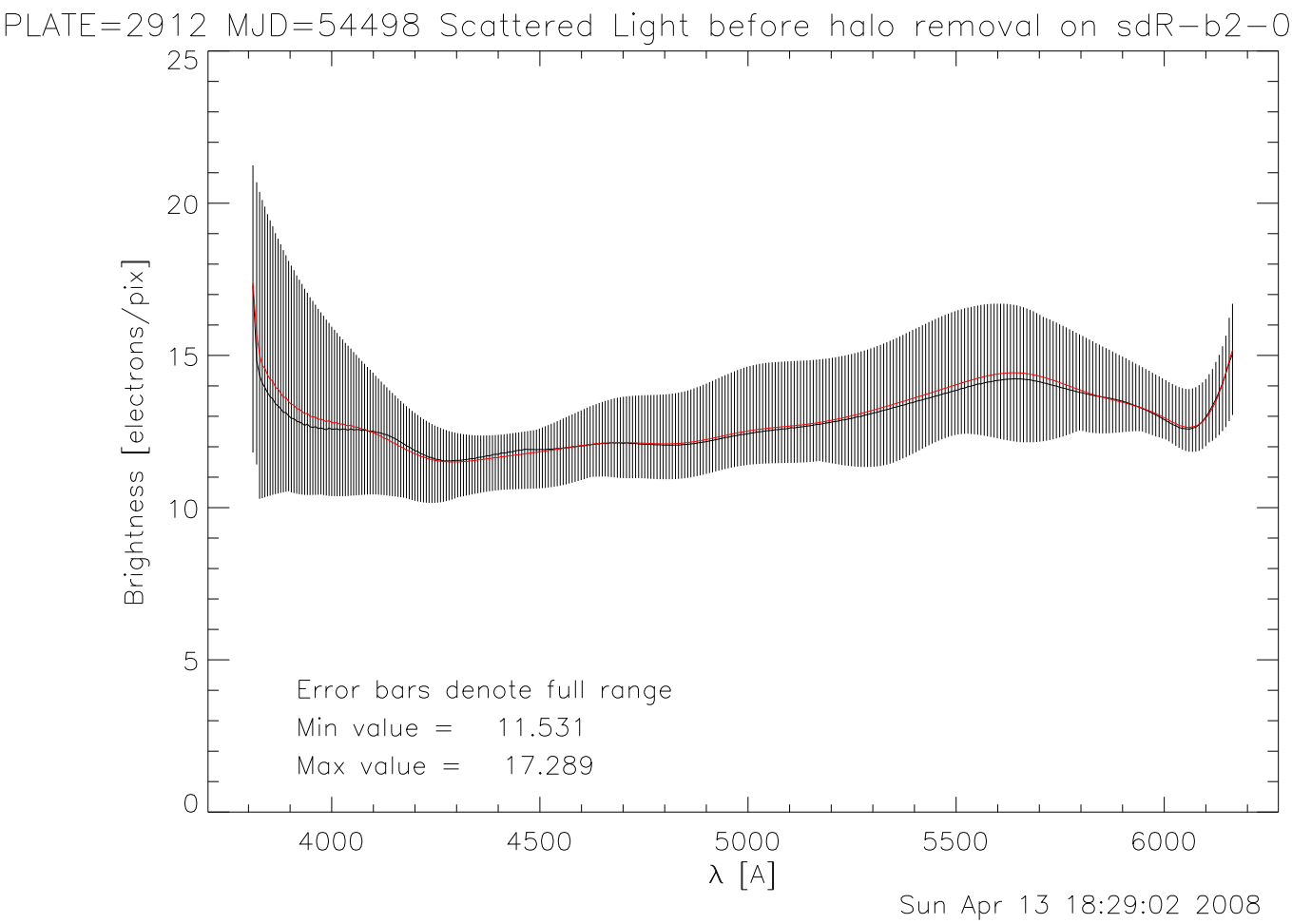

Number of sky fibers = 22
PLATE=2912 MJD=54498 sdR-b2-00049471.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

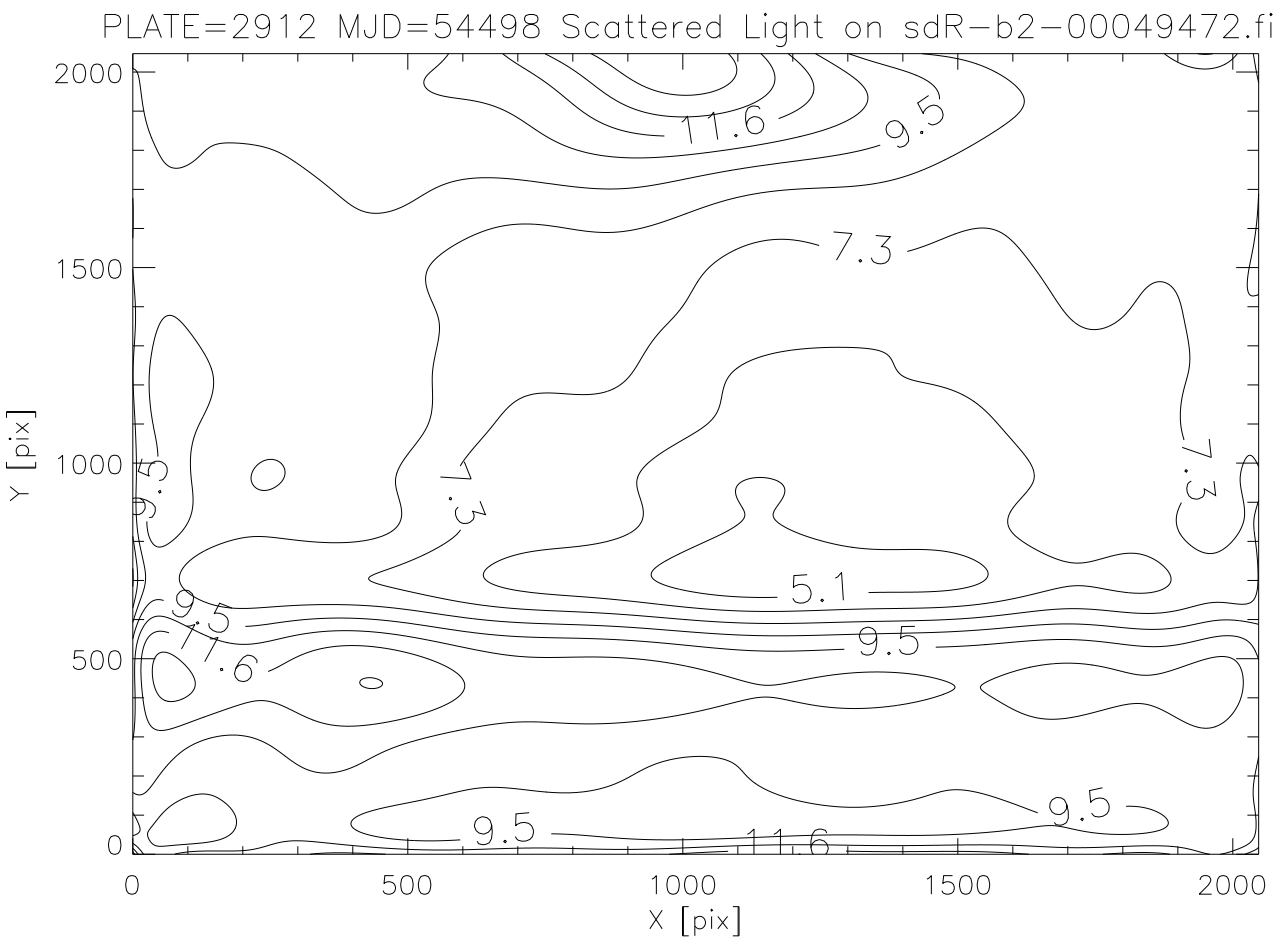

PLATE=2912 MJD=54498 sdR-b2-00049471.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 9.29 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

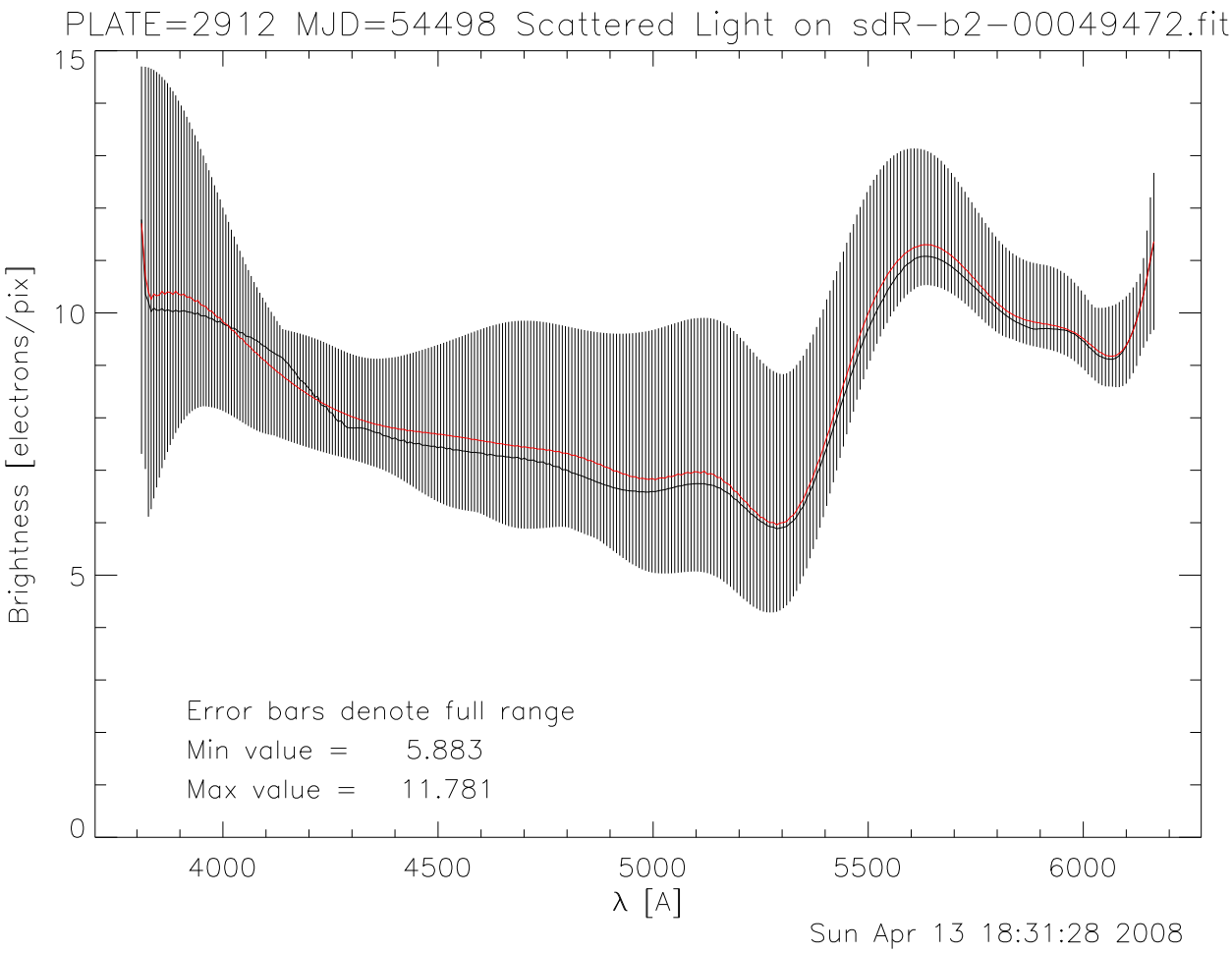

PLATE=2912 MJD=54498 sdR-b2-00049471.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.35 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

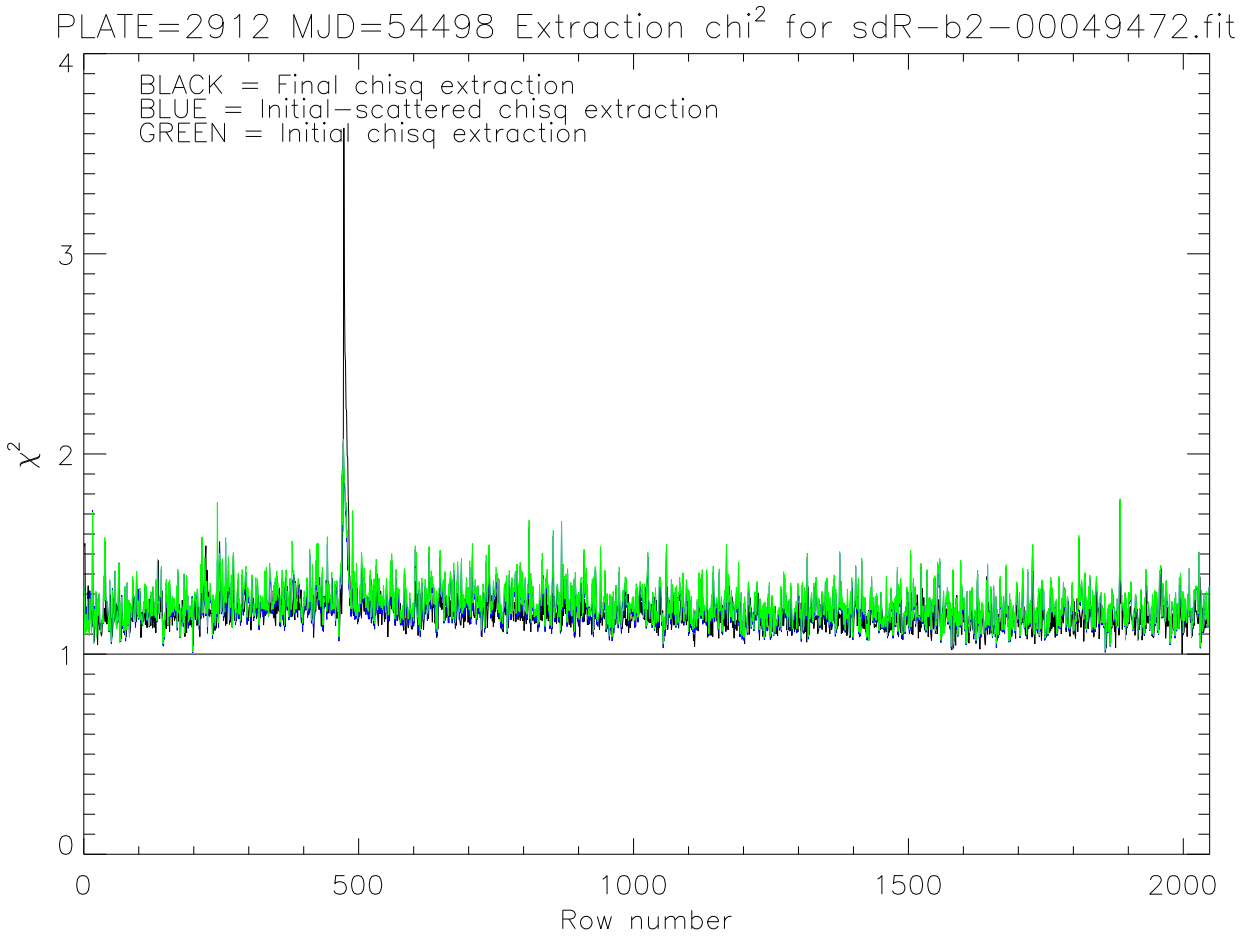

PLATE=2912 MJD=54498 Fiber-Flats for sdR-b2-00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.119
Max value = 1.195
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 18:28:08 2008

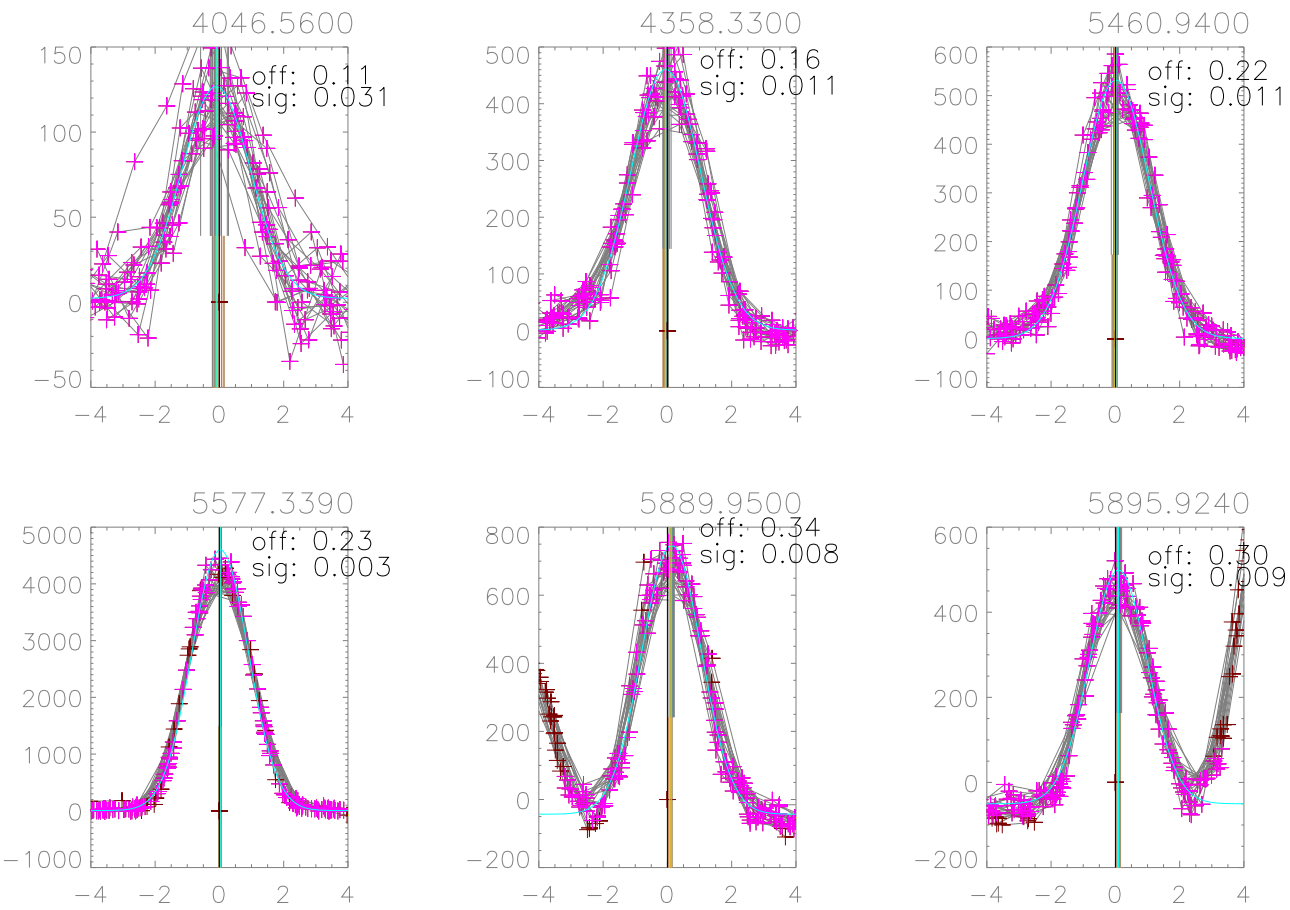

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR−b2−00049472.f
17.7
14.1
14.1
14.1

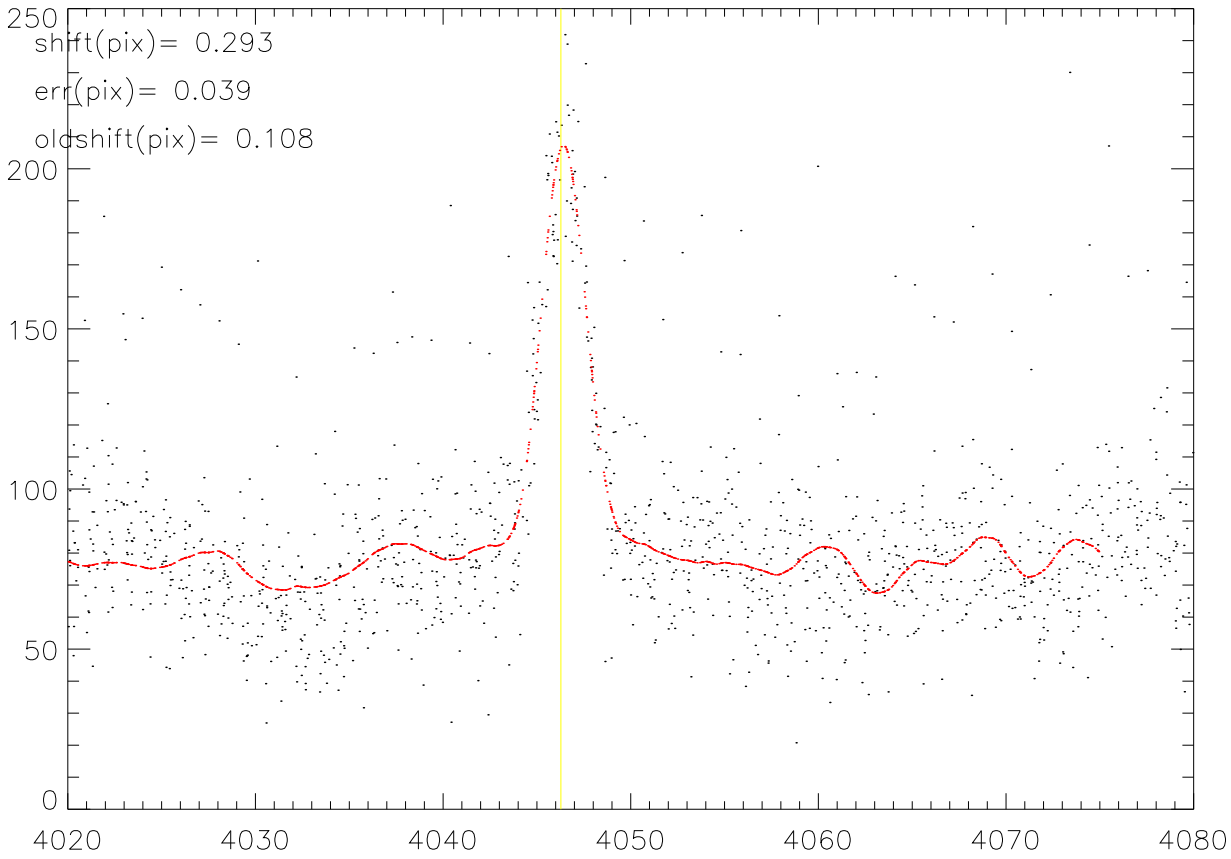

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-b2-00049472.f
Brightness [electrons/pix]
25
20
15
10
5
0
Error bars denote full range
Min value = 11.531
Max value = 17.289
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 18:29:02 2008

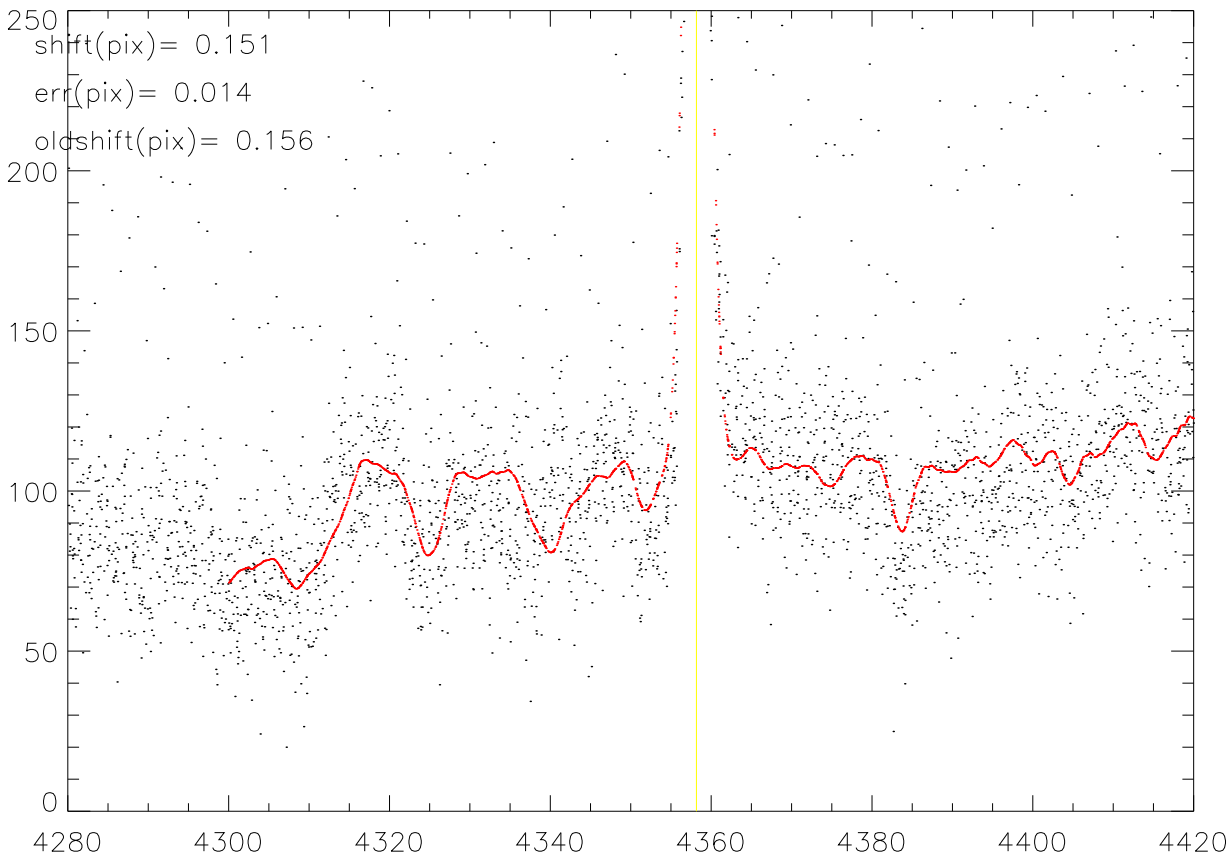

PLATE=2912 MJD=54498 Scattered Light on sdR-b2-00049472.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
11.6
9.5
7.3
5.1

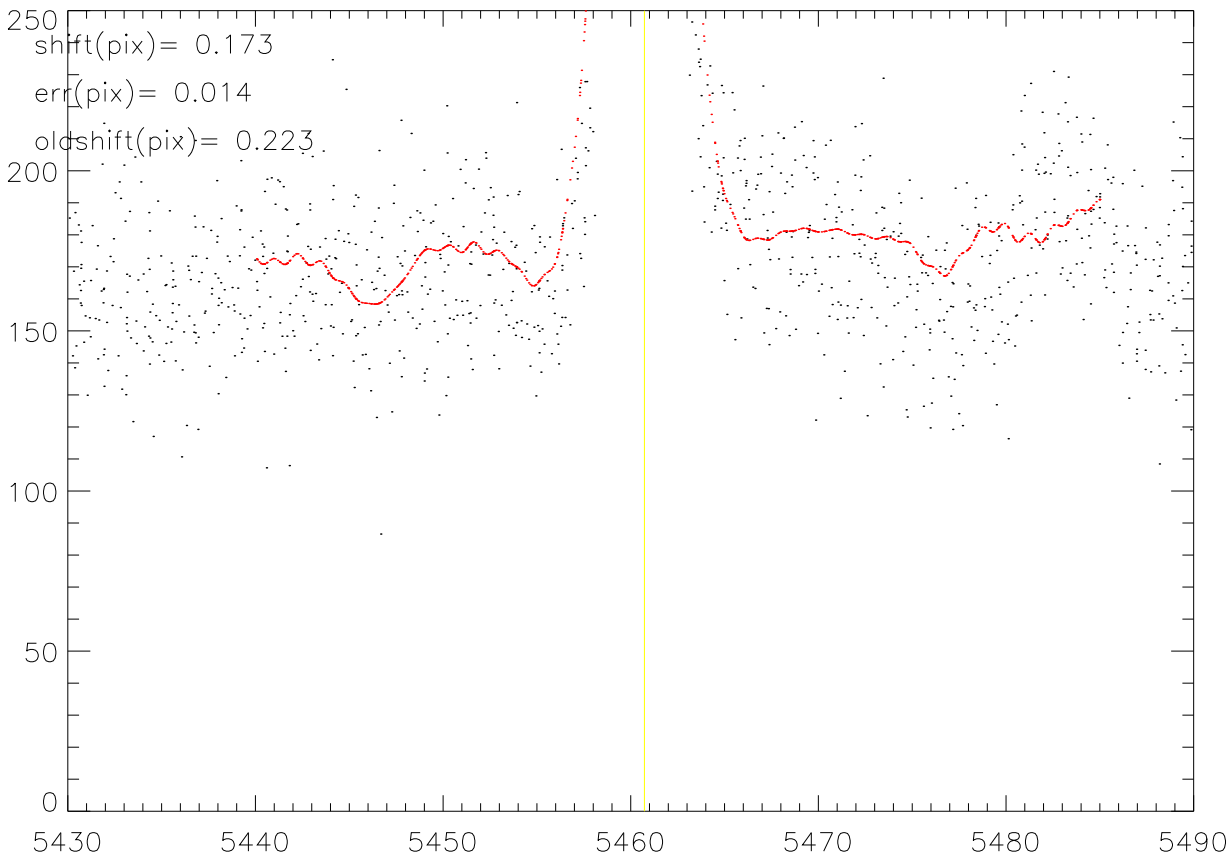

PLATE=2912 MJD=54498 Scattered Light on sdR-b2-00049472.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.883
Max value = 11.781
Sun Apr 13 18:31:28 2008

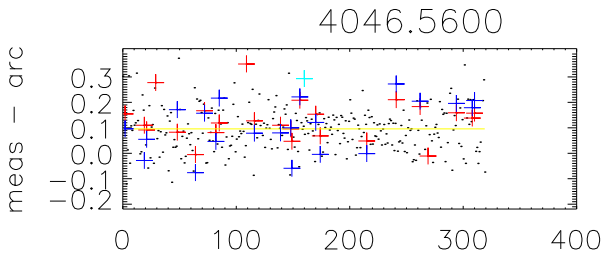

PLATE=2912 MJD=54498 Extraction chi^2 for sdR-b2-00049472.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

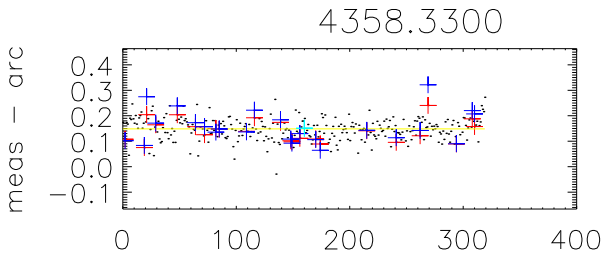

4046.5600
off: 0.11
sig: 0.031
4358.3300
off: 0.16
sig: 0.011
5460.9400
off: 0.22
sig: 0.011
5577.3390
off: 0.23
sig: 0.003
5889.9500
off: 0.34
sig: 0.008
5895.9240
off: 0.30
sig: 0.009

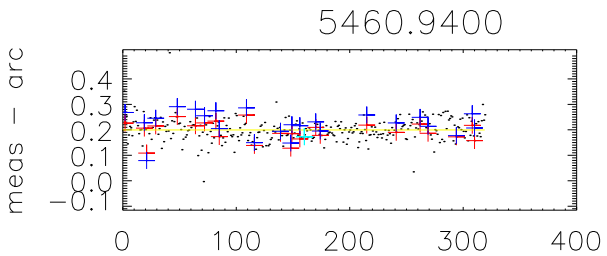

shift(pix)= 0.293
err(pix)= 0.039
oldshift(pix)= 0.108
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

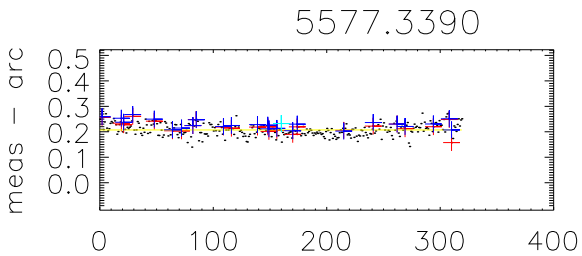

shift(pix)= 0.151
err(pix)= 0.014
oldshift(pix)= 0.156
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

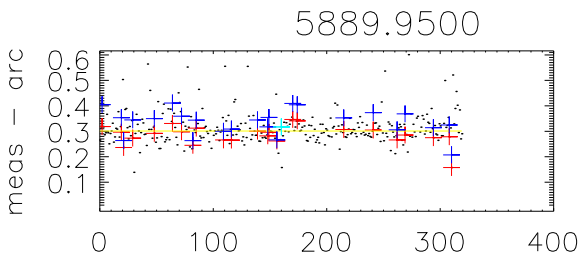

shift(pix)= 0.173
err(pix)= 0.014
oldshift(pix)= 0.223
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

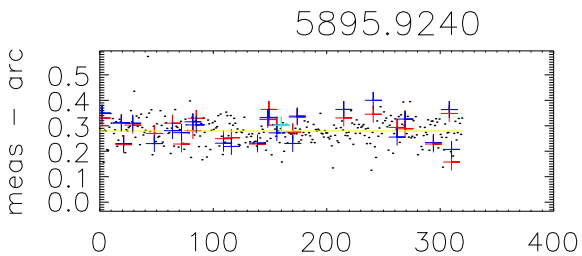

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

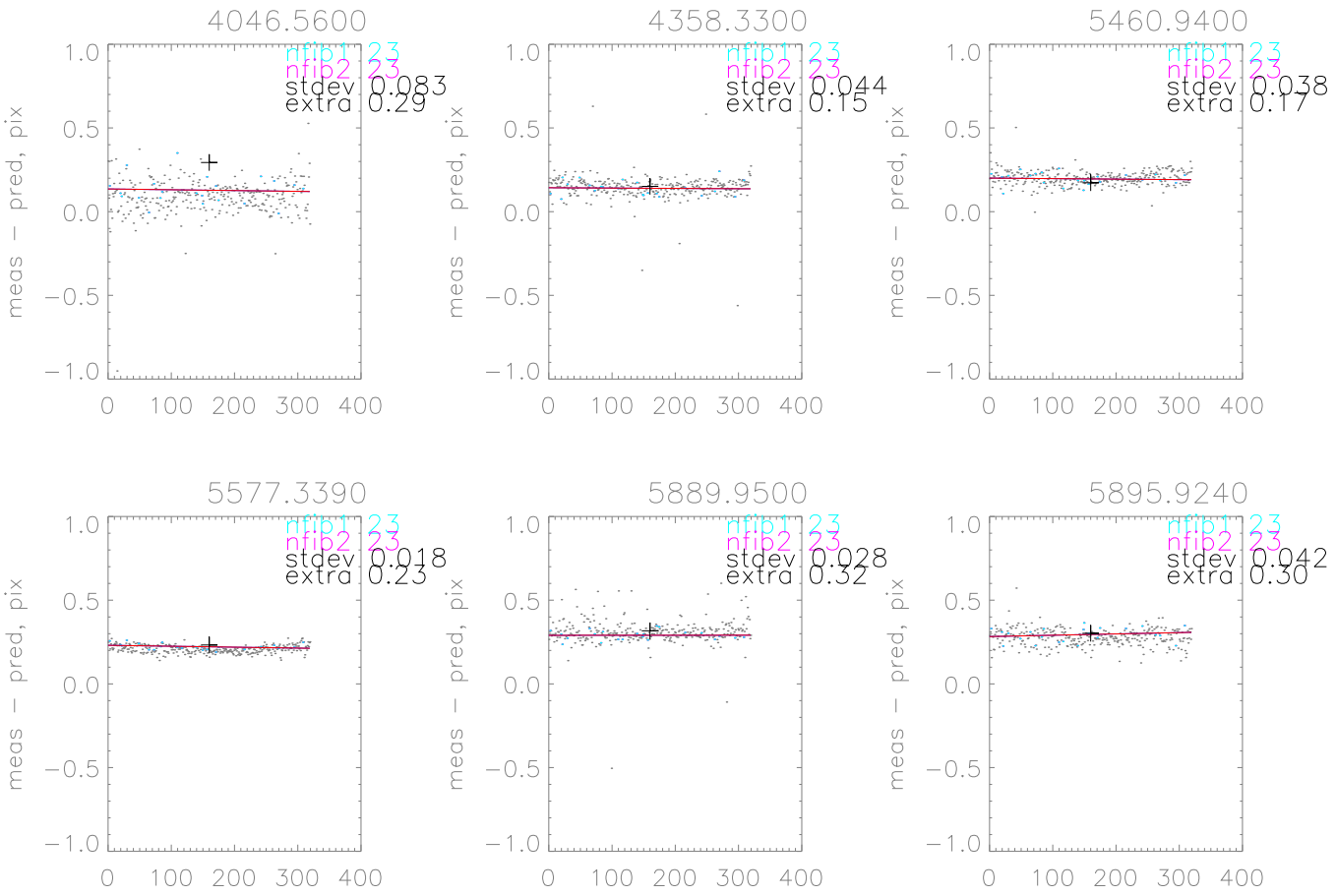

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

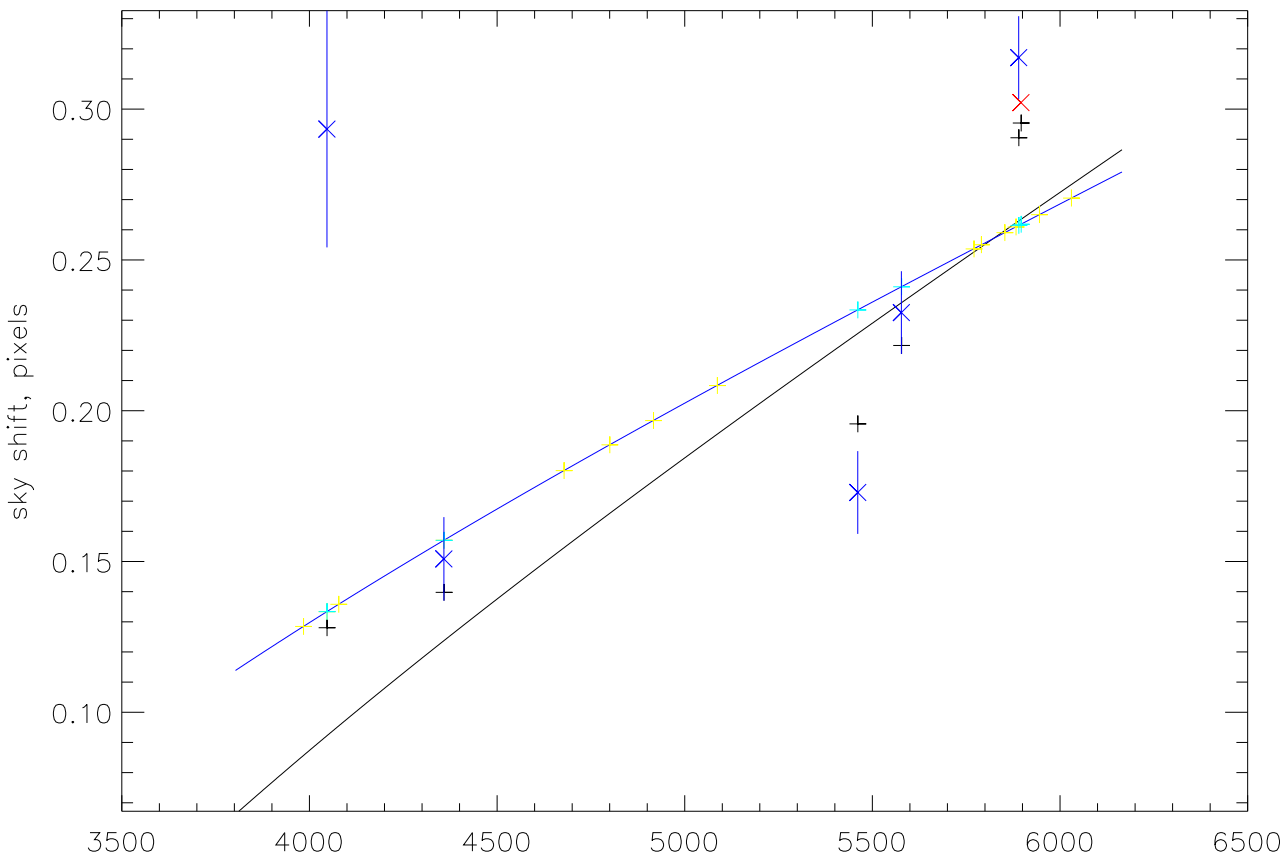

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

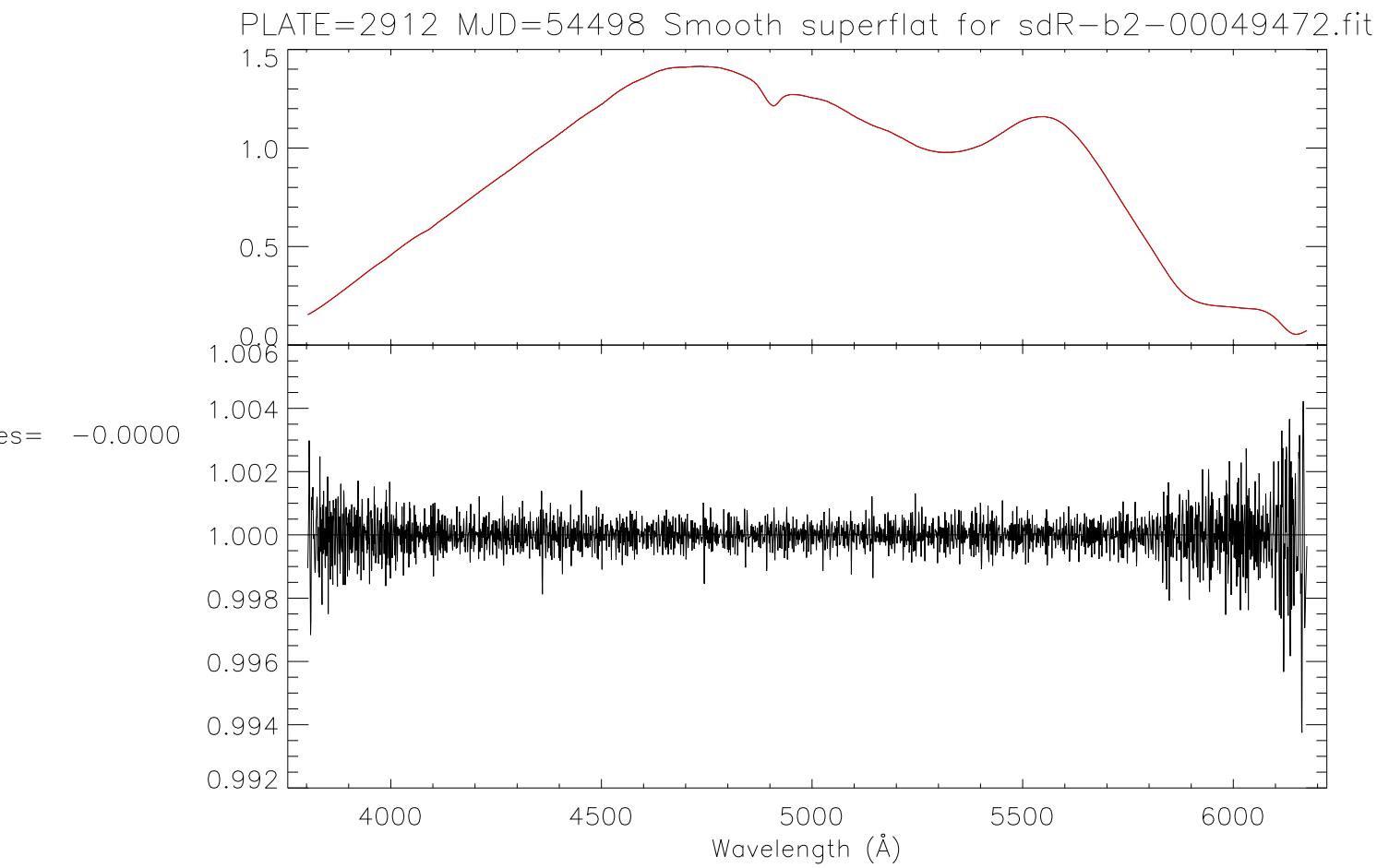

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


5889.9500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

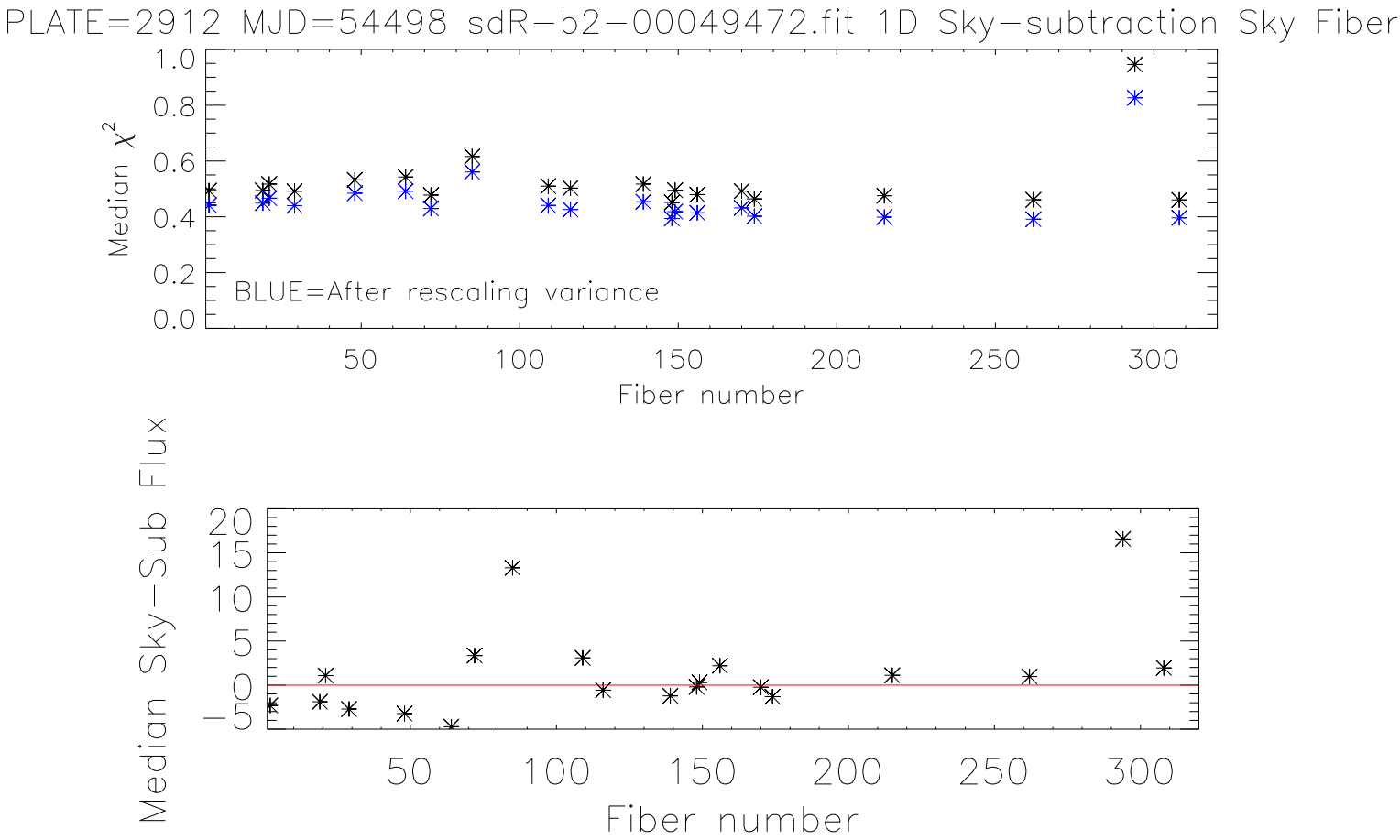

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

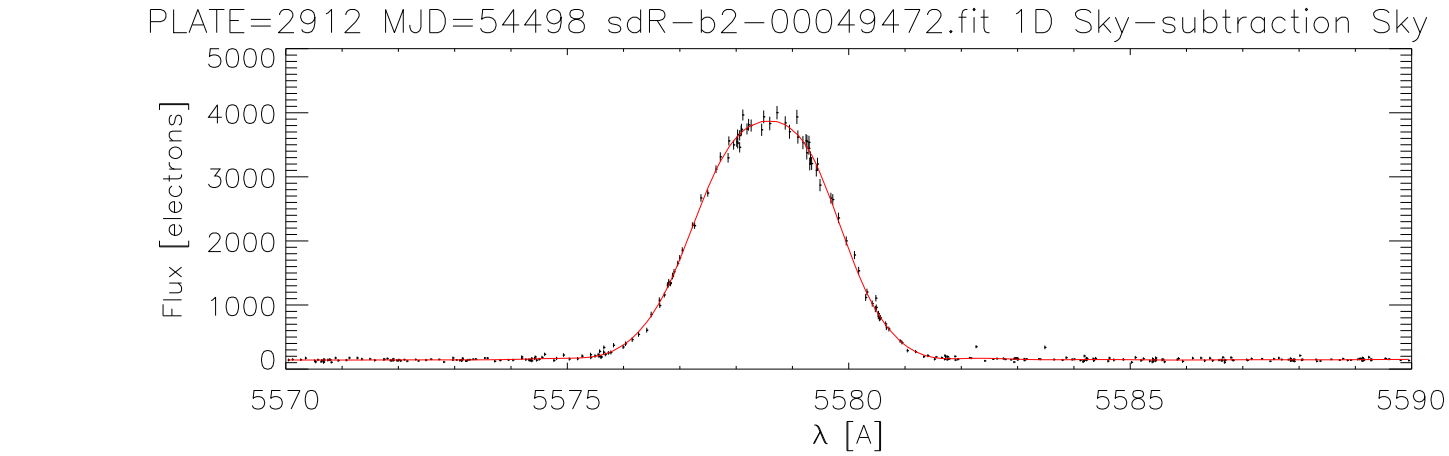

4046.5600
nfib1 23
nfib2 23
stdev 0.083
extra 0.29
4358.3300
nfib1 23
nfib2 23
stdev 0.044
extra 0.15
5460.9400
nfib1 23
nfib2 23
stdev 0.038
extra 0.17
5577.3390
nfib1 23
nfib2 23
stdev 0.018
extra 0.23
5889.9500
nfib1 23
nfib2 23
stdev 0.028
extra 0.32
5895.9240
nfib1 23
nfib2 23
stdev 0.042
extra 0.30
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

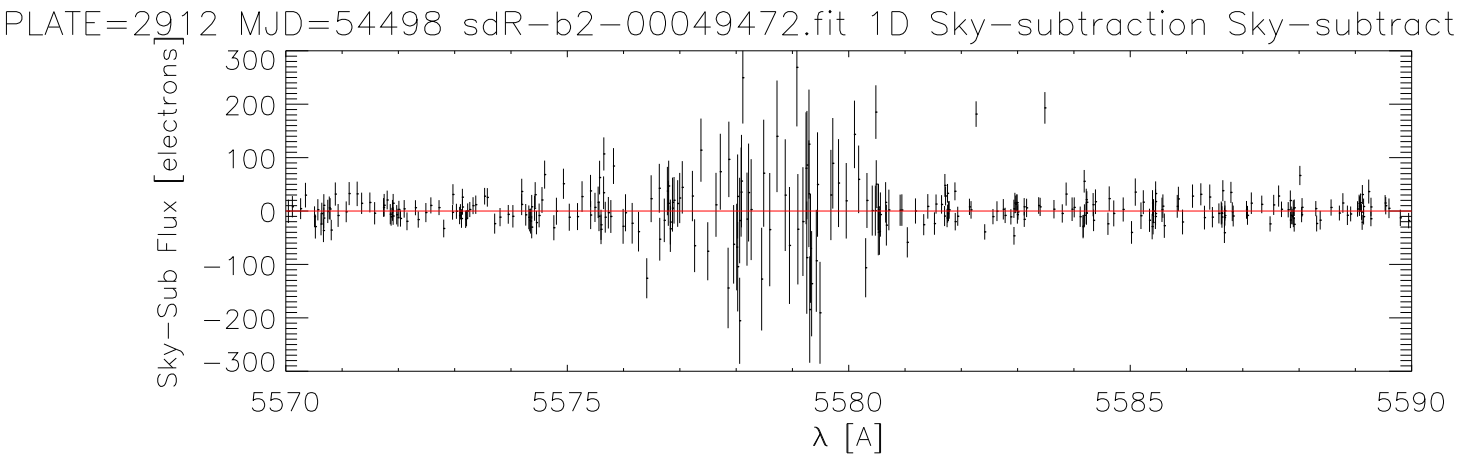

sky shift, pixels
0.10
0.15
0.20
0.25
0.30
3500
4000
4500
5000
5500
6000
6500

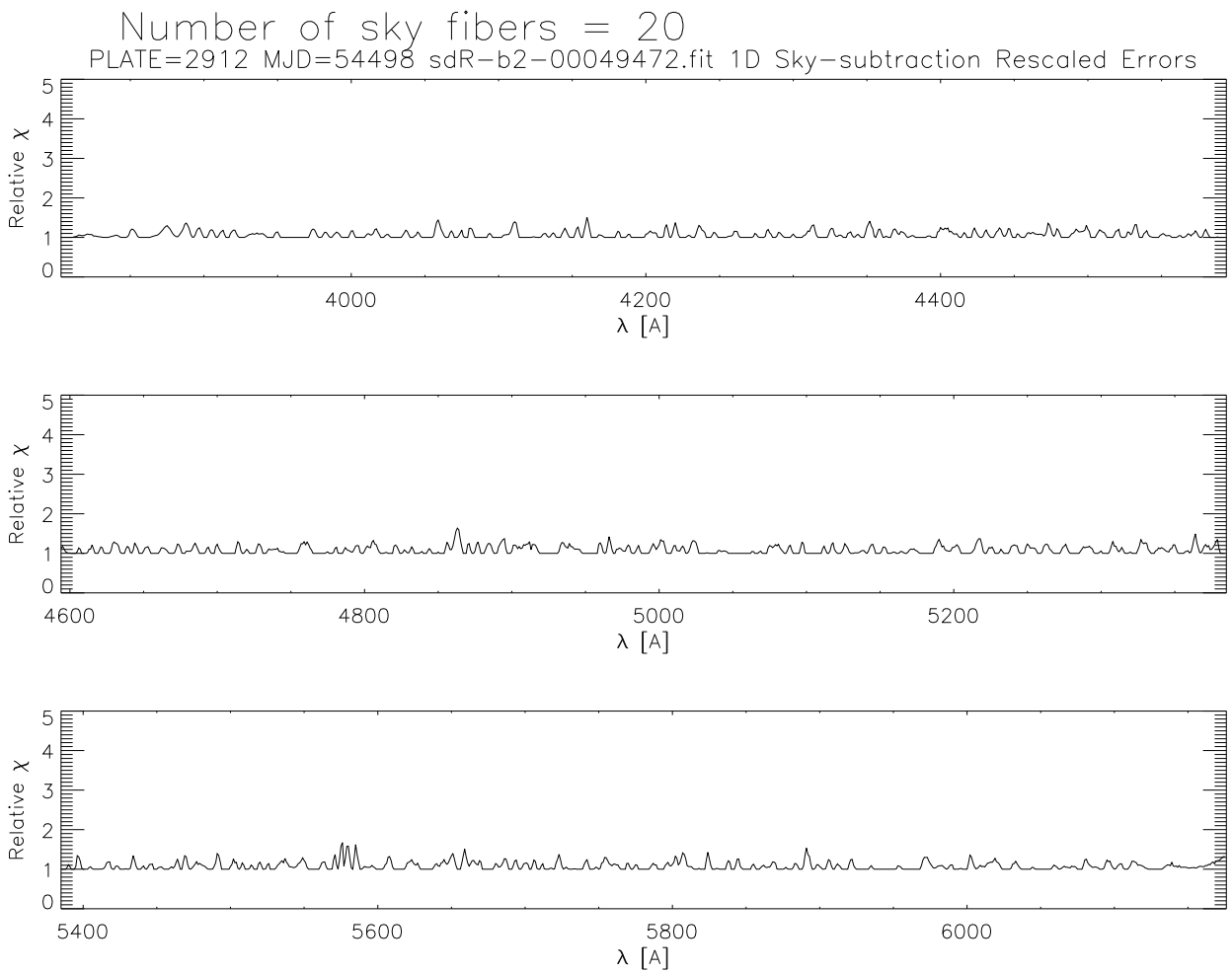

PLATE=2912 MJD=54498 Smooth superflat for sdR-b2-00049472.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

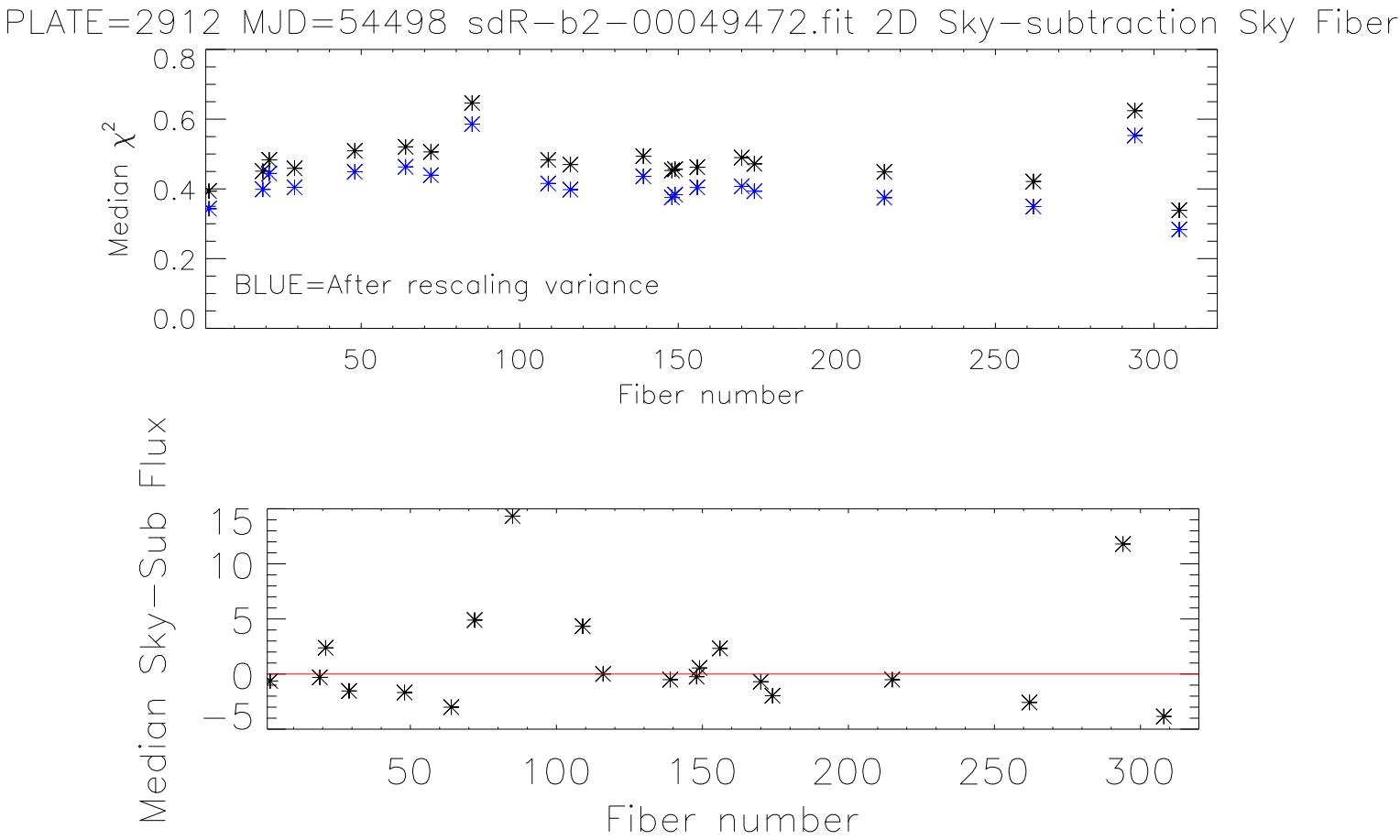
es= −0.0000

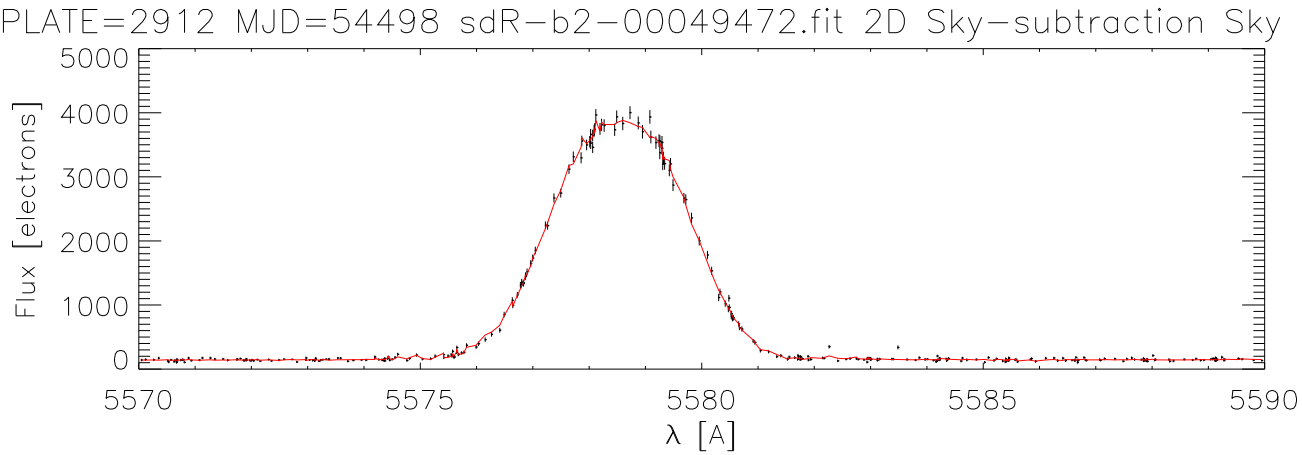

PLATE=2912 MJD=54498 sdR-b2-00049472.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

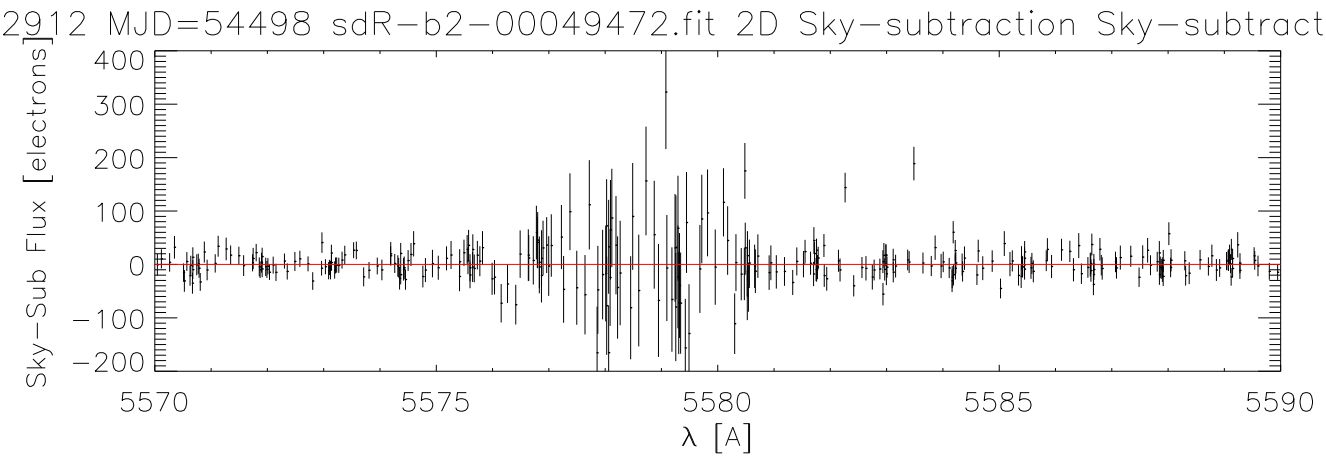

PLATE=2912 MJD=54498 sdR-b2-00049472.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

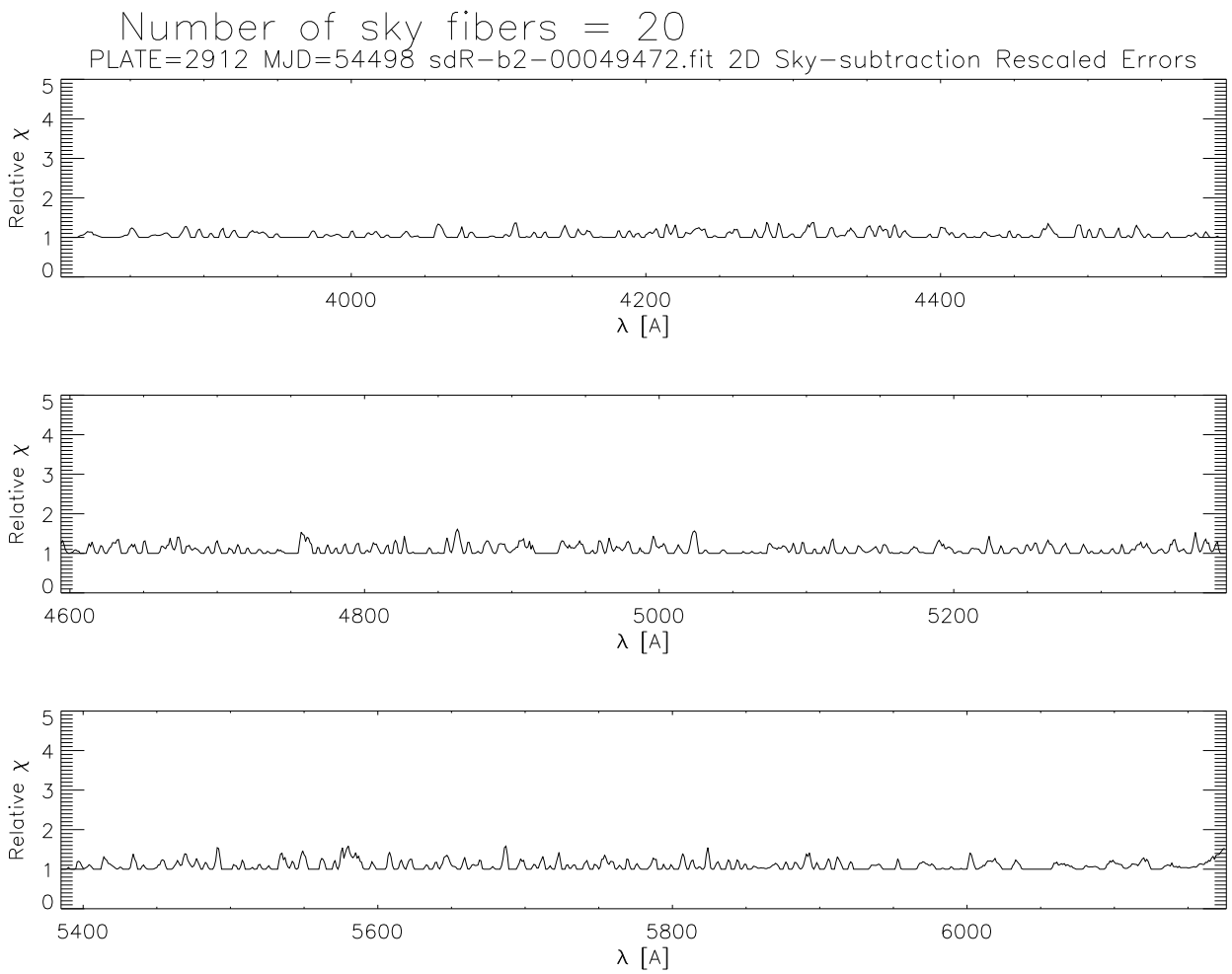

PLATE=2912 MJD=54498 sdR-b2-00049472.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

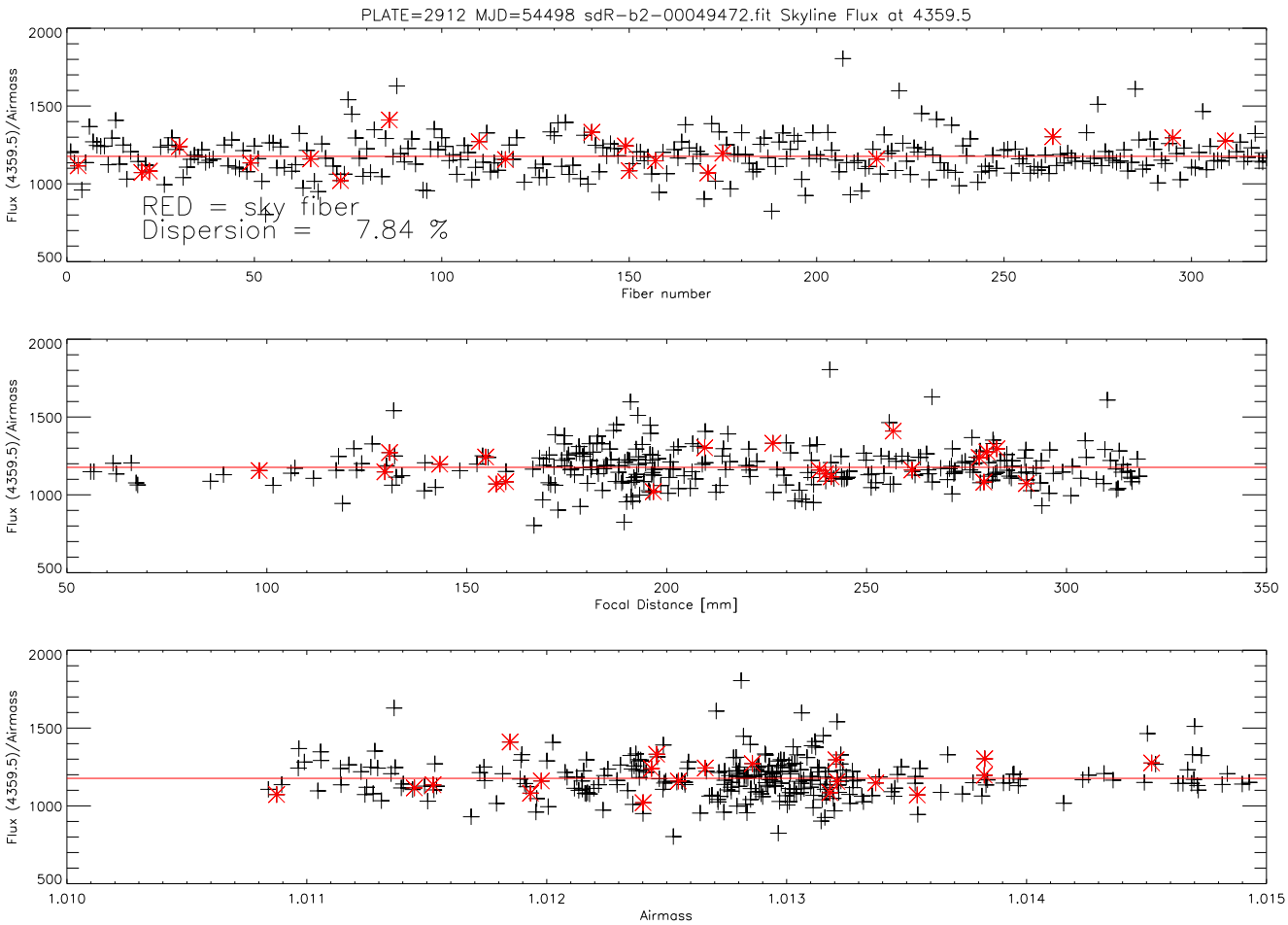

Number of sky fibers = 20
PLATE=2912 MJD=54498 sdR-b2-00049472.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

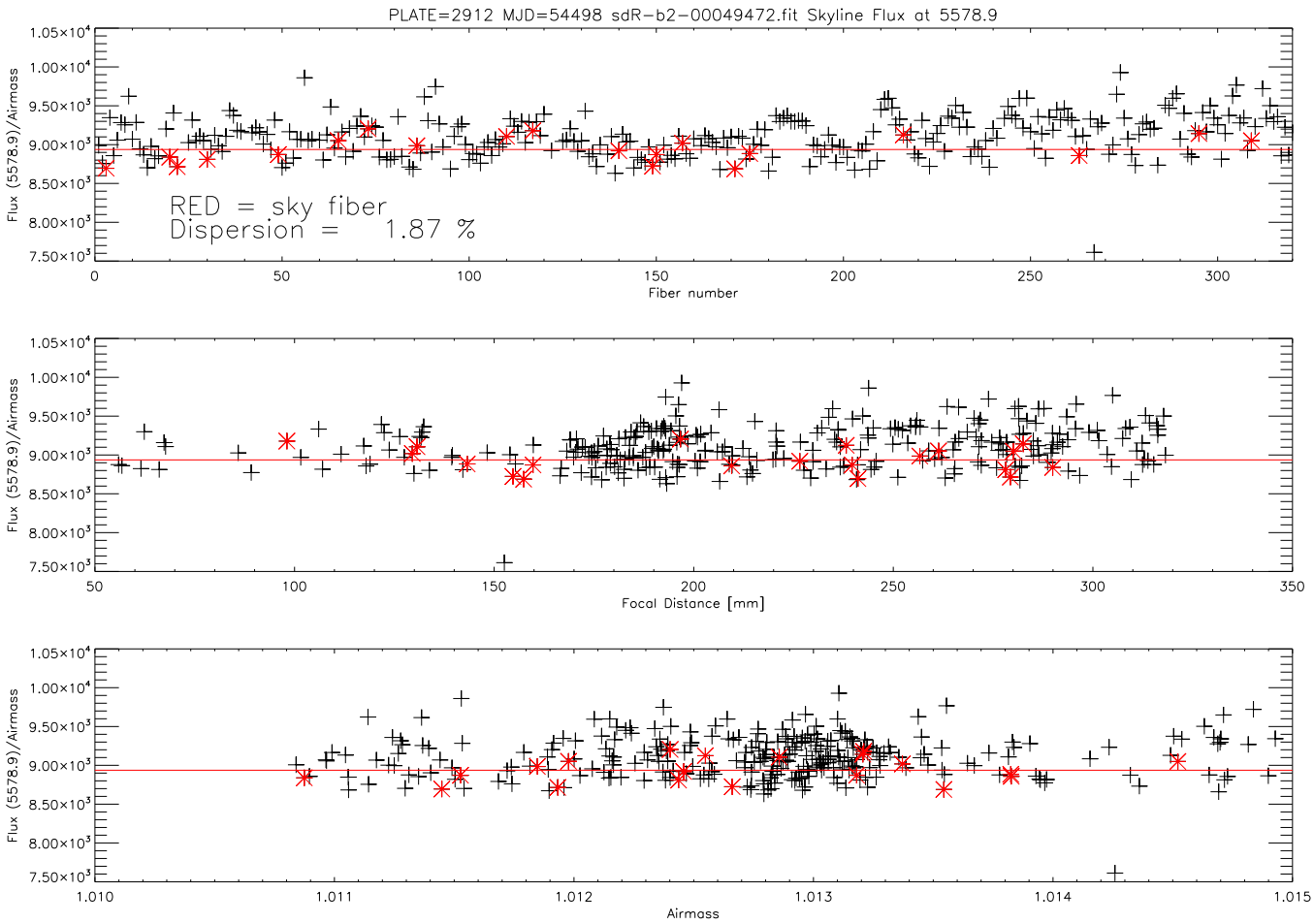

PLATE=2912 MJD=54498 sdR-b2-00049472.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
50
100
150
200
250
300
Fiber number

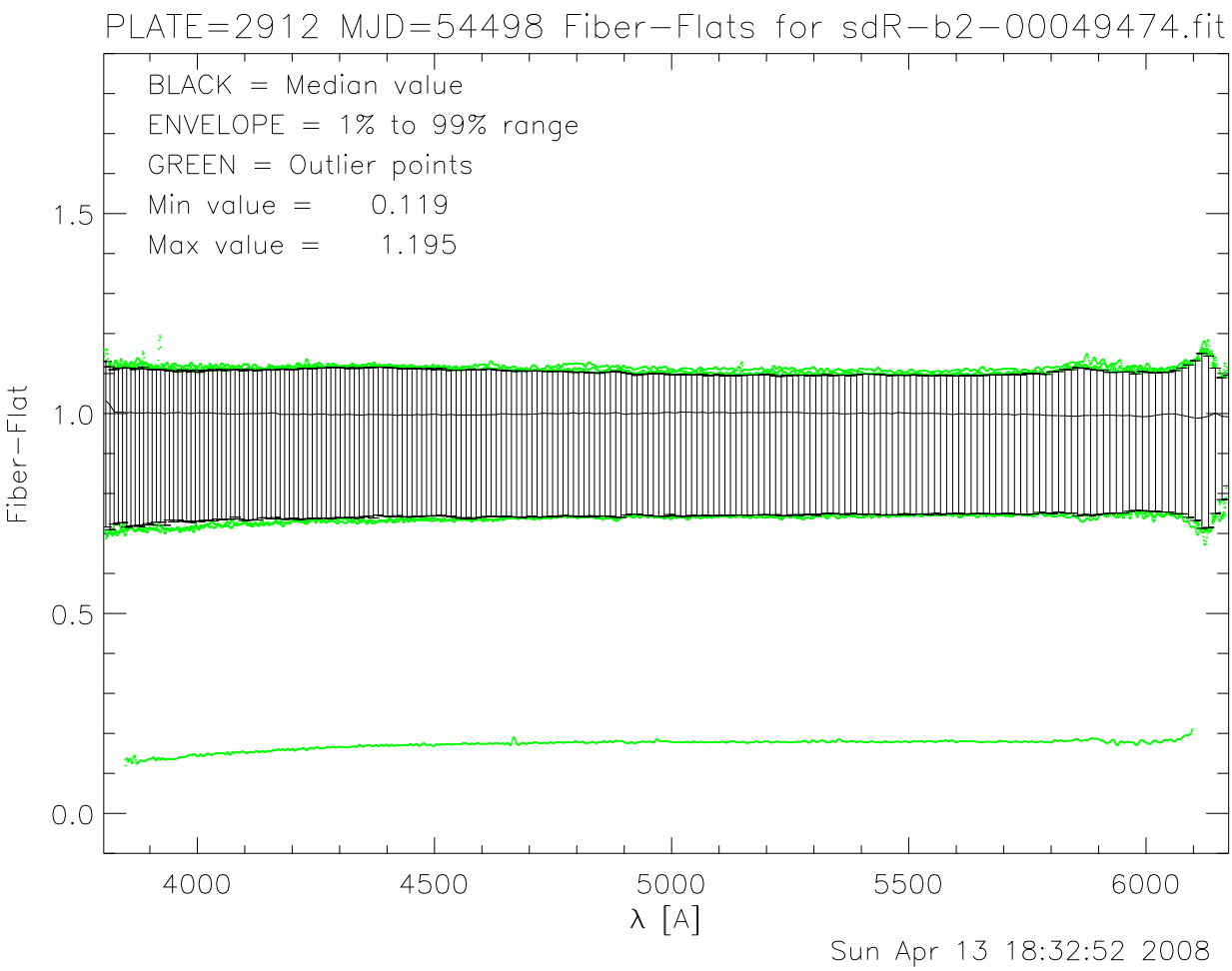

PLATE=2912 MJD=54498 sdR-b2-00049472.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

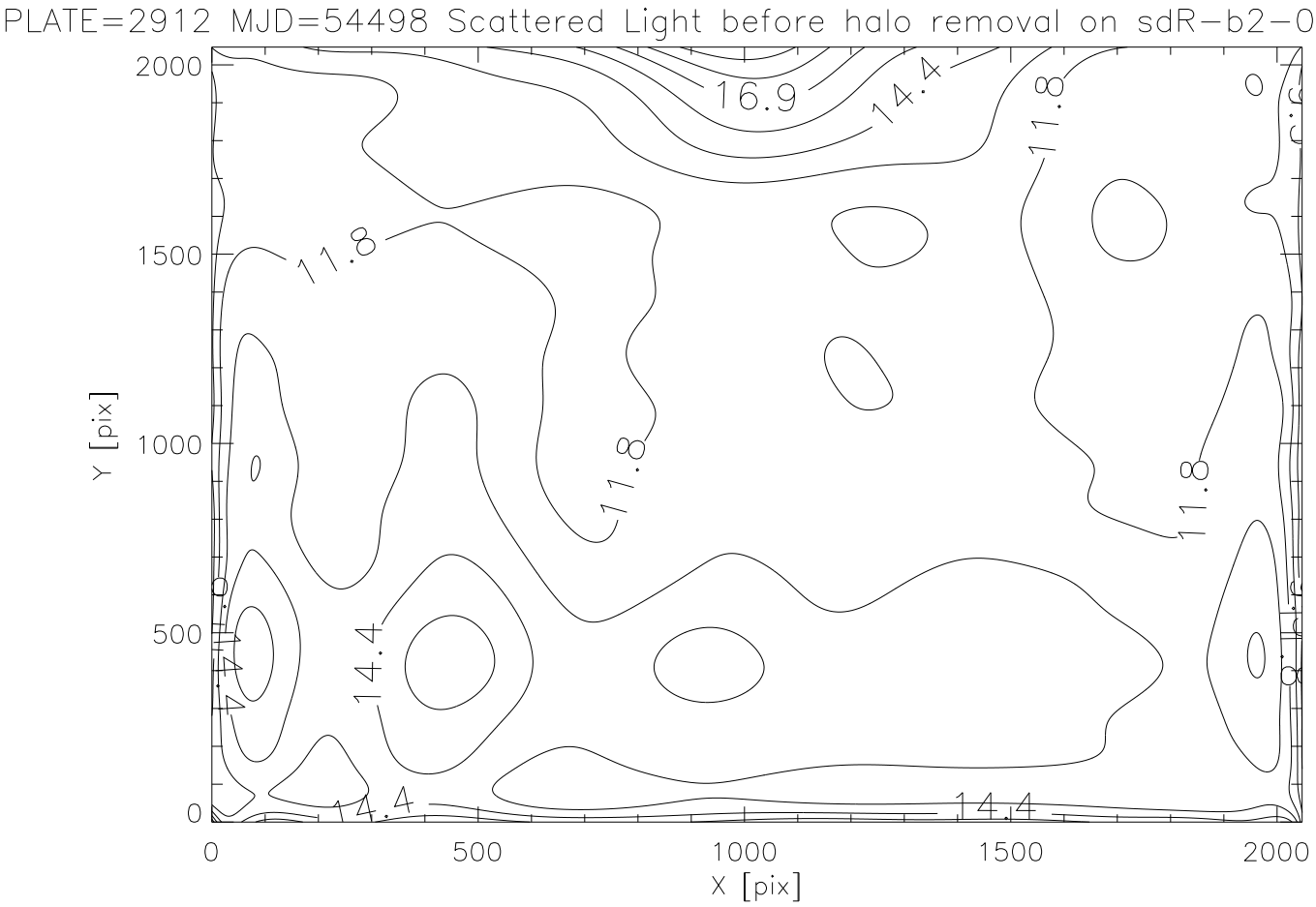

PLATE=2912 MJD=54498 sdR-b2-00049472.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

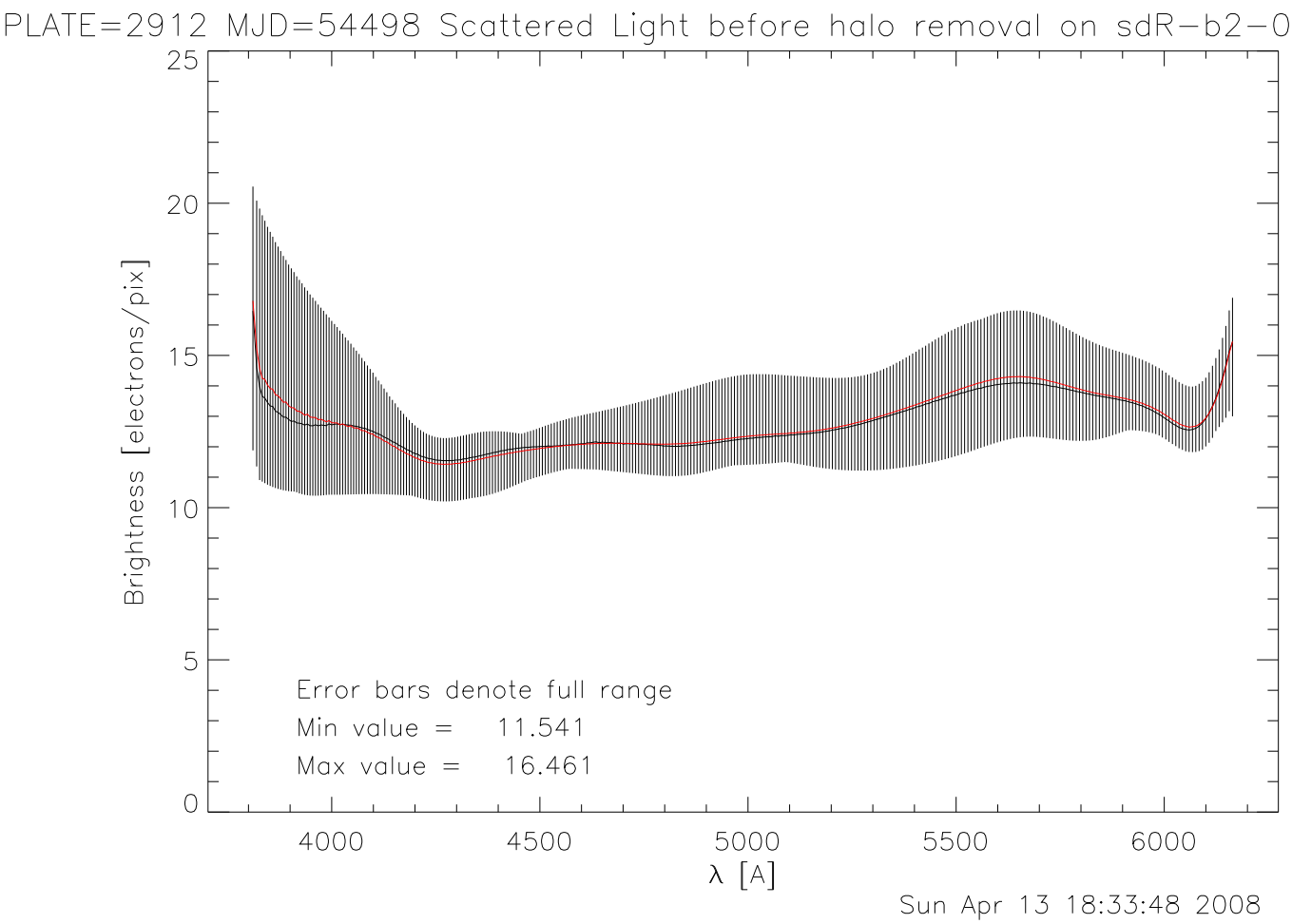

Number of sky fibers = 20
PLATE=2912 MJD=54498 sdR-b2-00049472.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

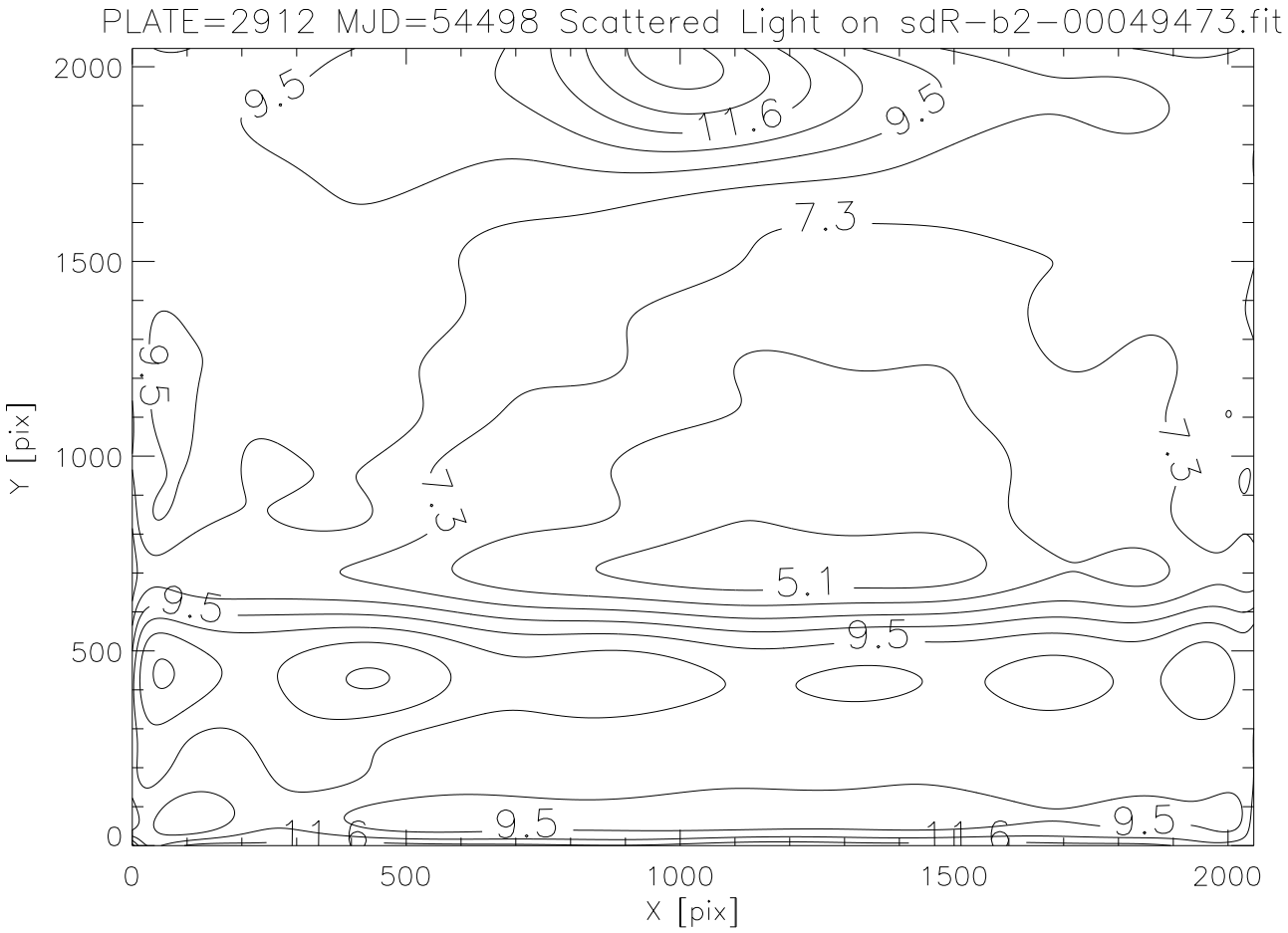

PLATE=2912 MJD=54498 sdR-b2-00049472.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 7.84 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

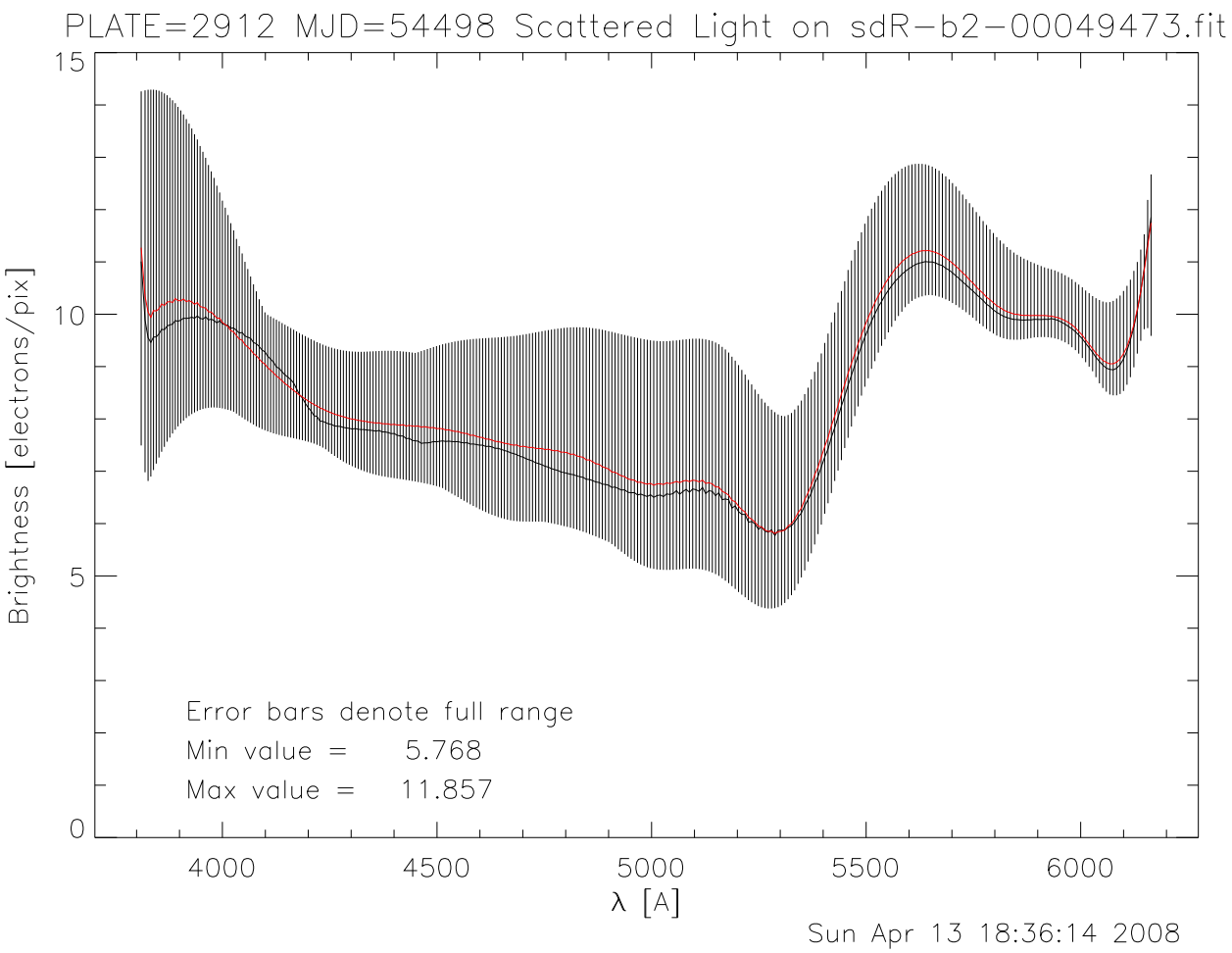

PLATE=2912 MJD=54498 sdR-b2-00049472.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.87 %
Fiber number
Focal Distance [mm]
Airmass

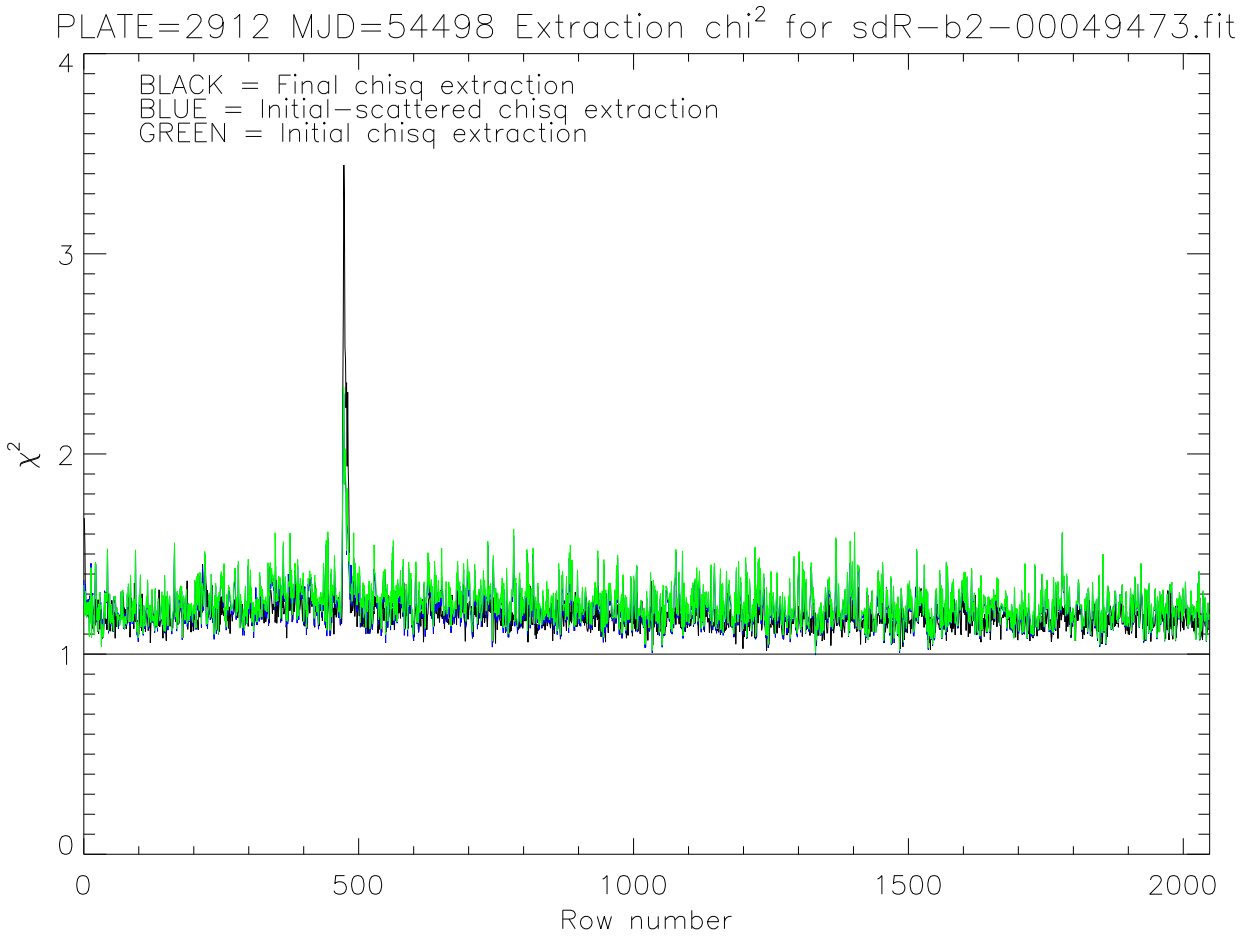

PLATE=2912 MJD=54498 Fiber-Flats for sdR-b2-00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.119
Max value = 1.195
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 18:32:52 2008

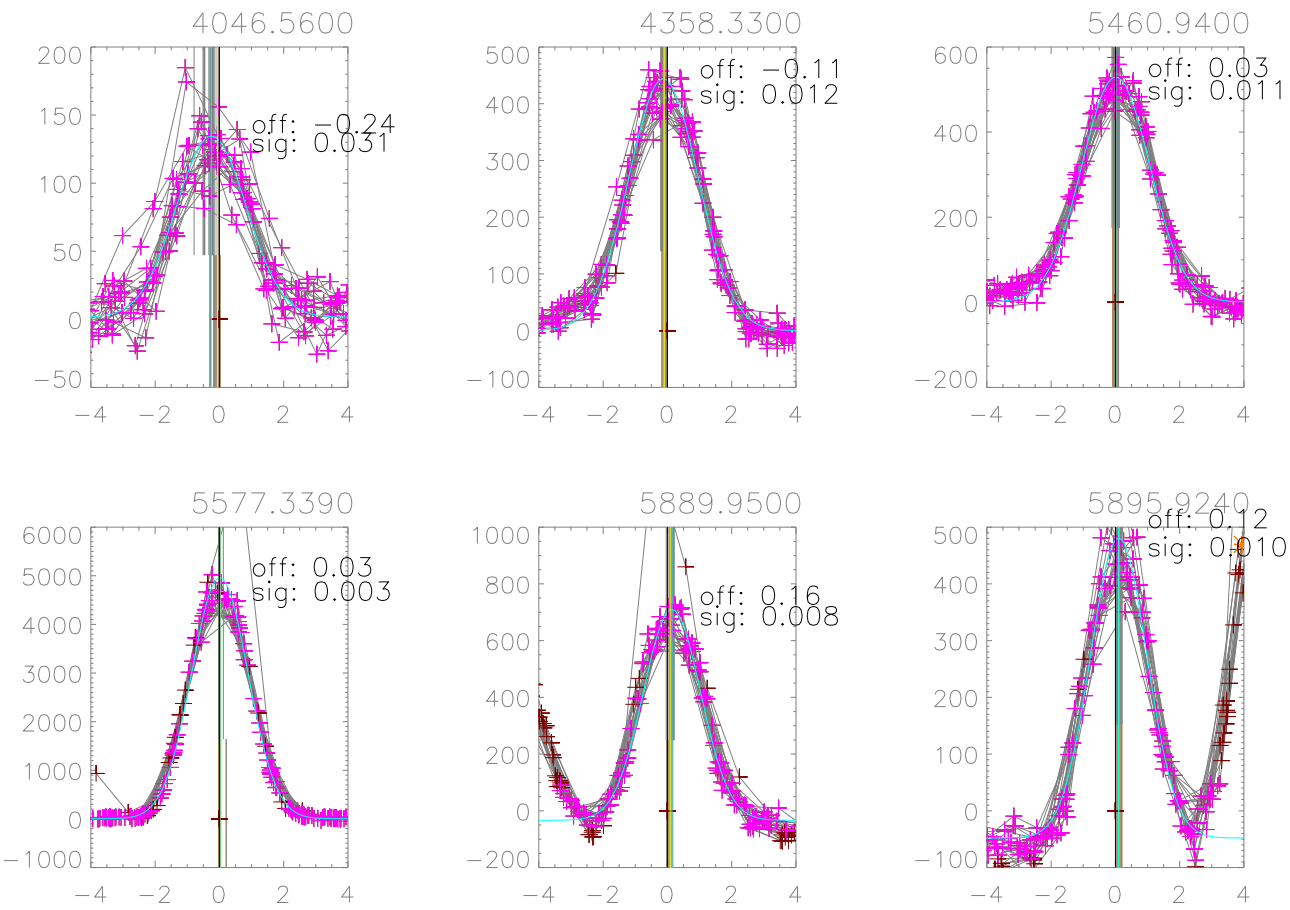

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-b2-00049473.f
16.9
14.4
11.8
0
11.8
11.8
11.8
0
14.4
14.4
14.4
14.4
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

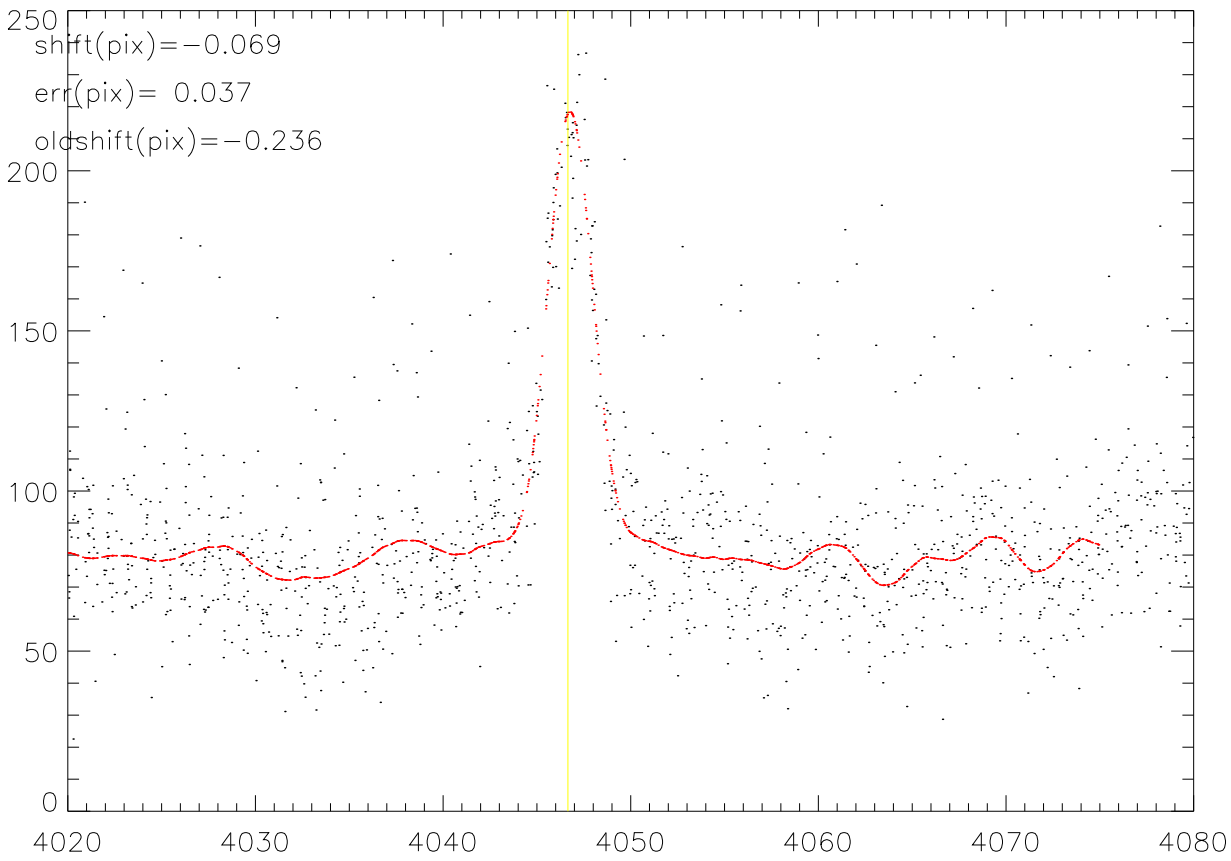

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR−b2−00049473.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 11.541
Max value = 16.461
Sun Apr 13 18:33:48 2008

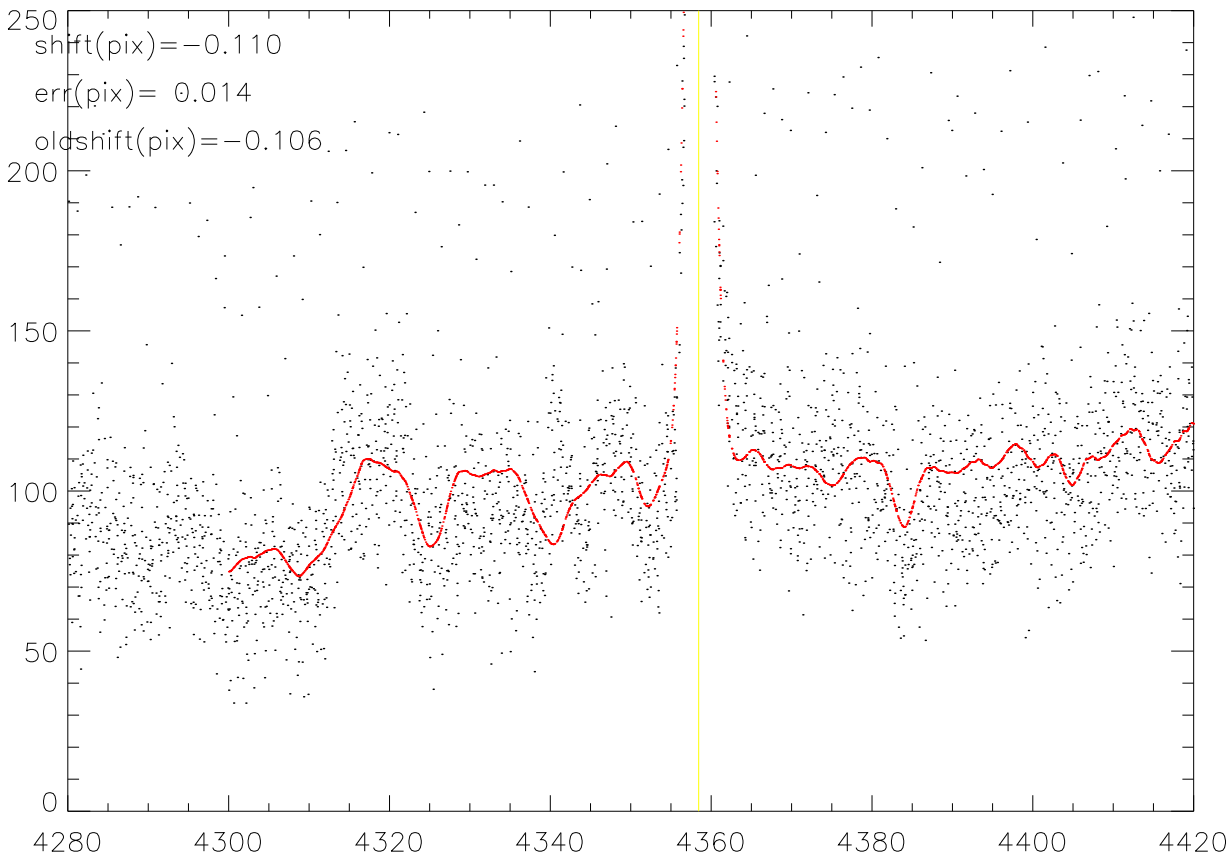

PLATE=2912 MJD=54498 Scattered Light on sdR-b2-00049473.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.5
11.6
7.3
5.1

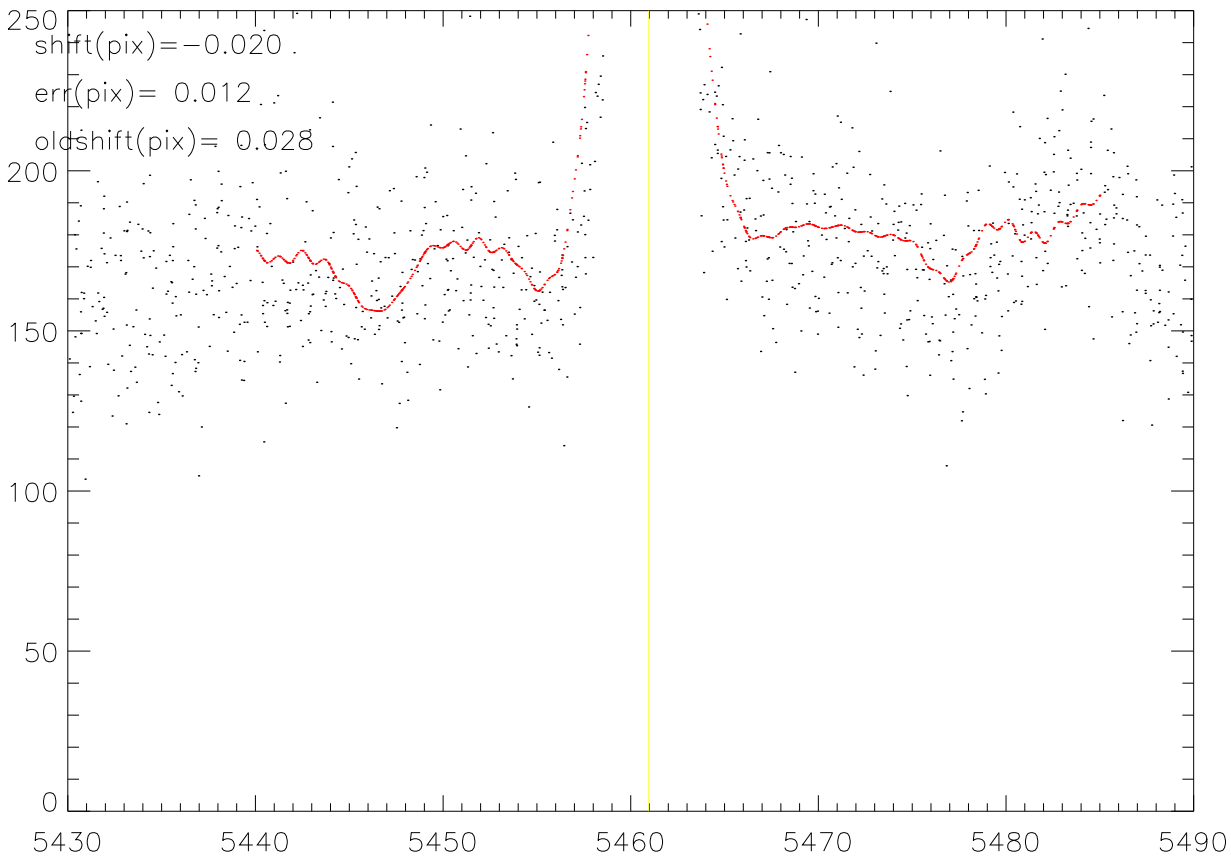

PLATE=2912 MJD=54498 Scattered Light on sdR-b2-00049473.fit
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 5.768
Max value = 11.857
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 18:36:14 2008

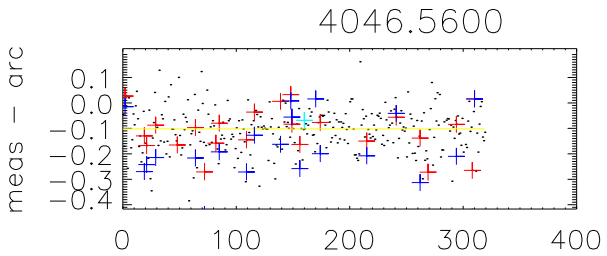

PLATE=2912 MJD=54498 Extraction chi^2 for sdR-b2-00049473.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

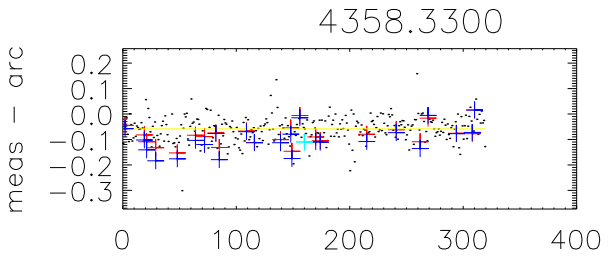

4046.5600
off: −0.24
sig: 0.031
4358.3300
off: −0.11
sig: 0.012
5460.9400
off: 0.03
sig: 0.011
5577.3390
off: 0.03
sig: 0.003
5889.9500
off: 0.16
sig: 0.008
5895.9240
off: 0.12
sig: 0.010

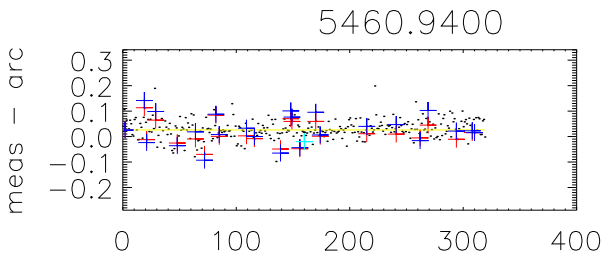

shift(pix)=−0.069
err(pix)= 0.037
oldshift(pix)=−0.236
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

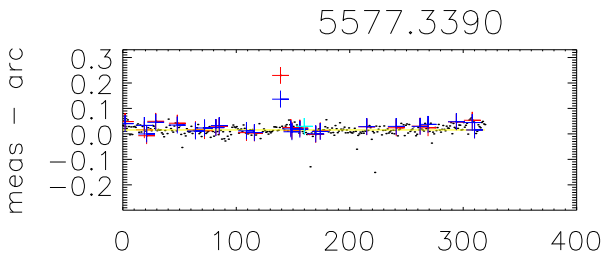

shift(pix)=−0.110
err(pix)= 0.014
oldshift(pix)=−0.106
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

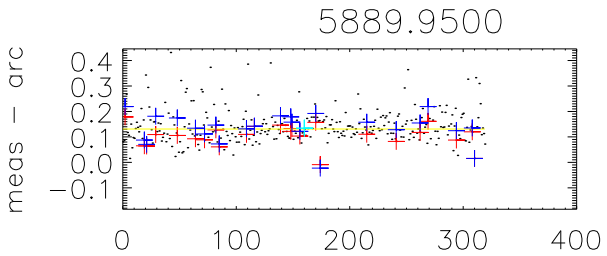

shift(pix)=−0.020
err(pix)= 0.012
oldshift(pix)= 0.028
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

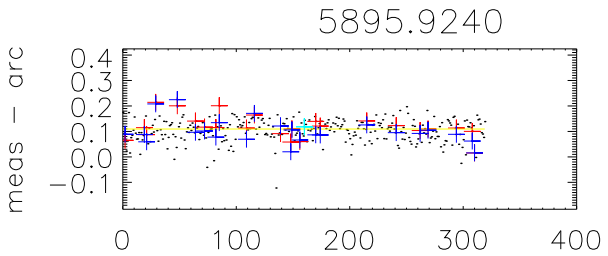

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

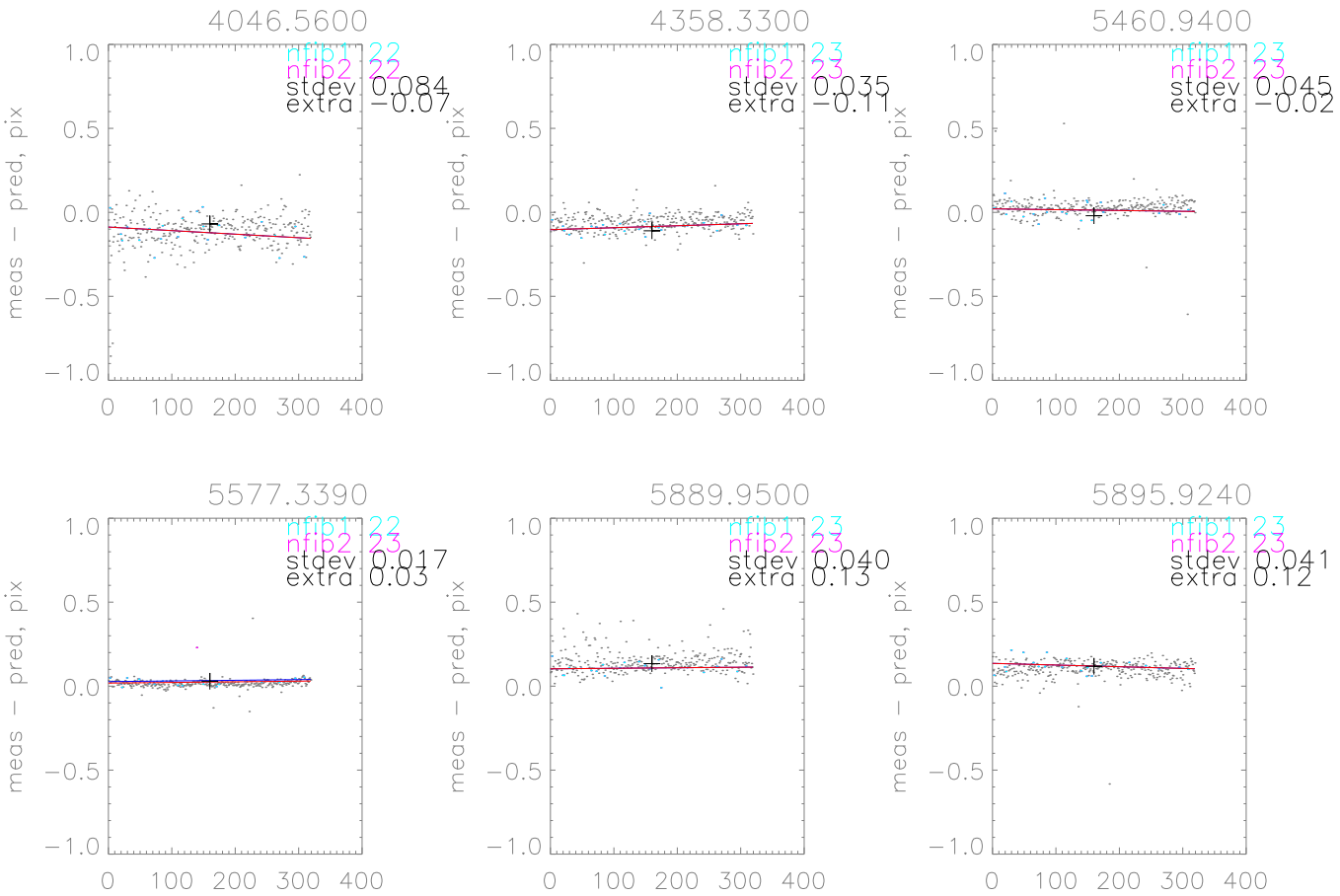

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

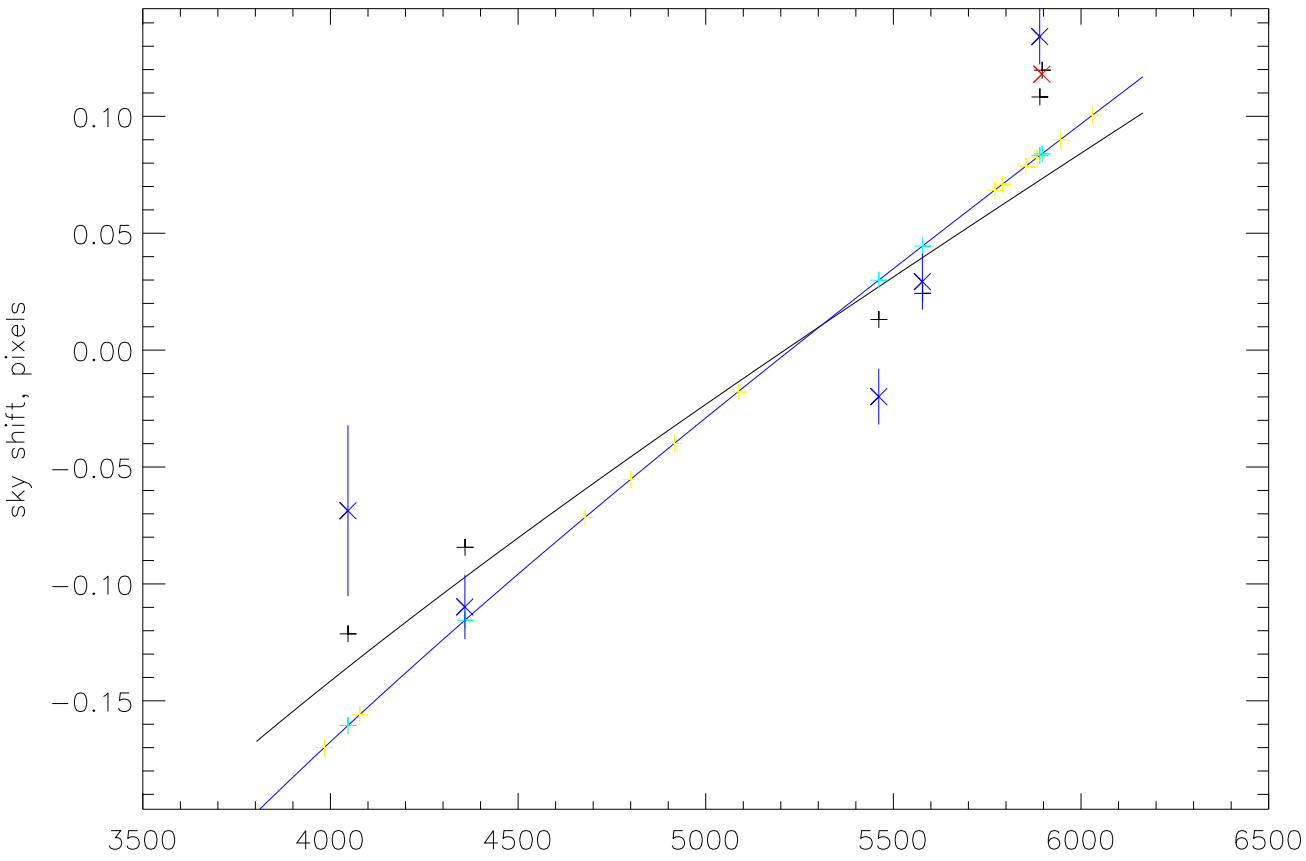

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

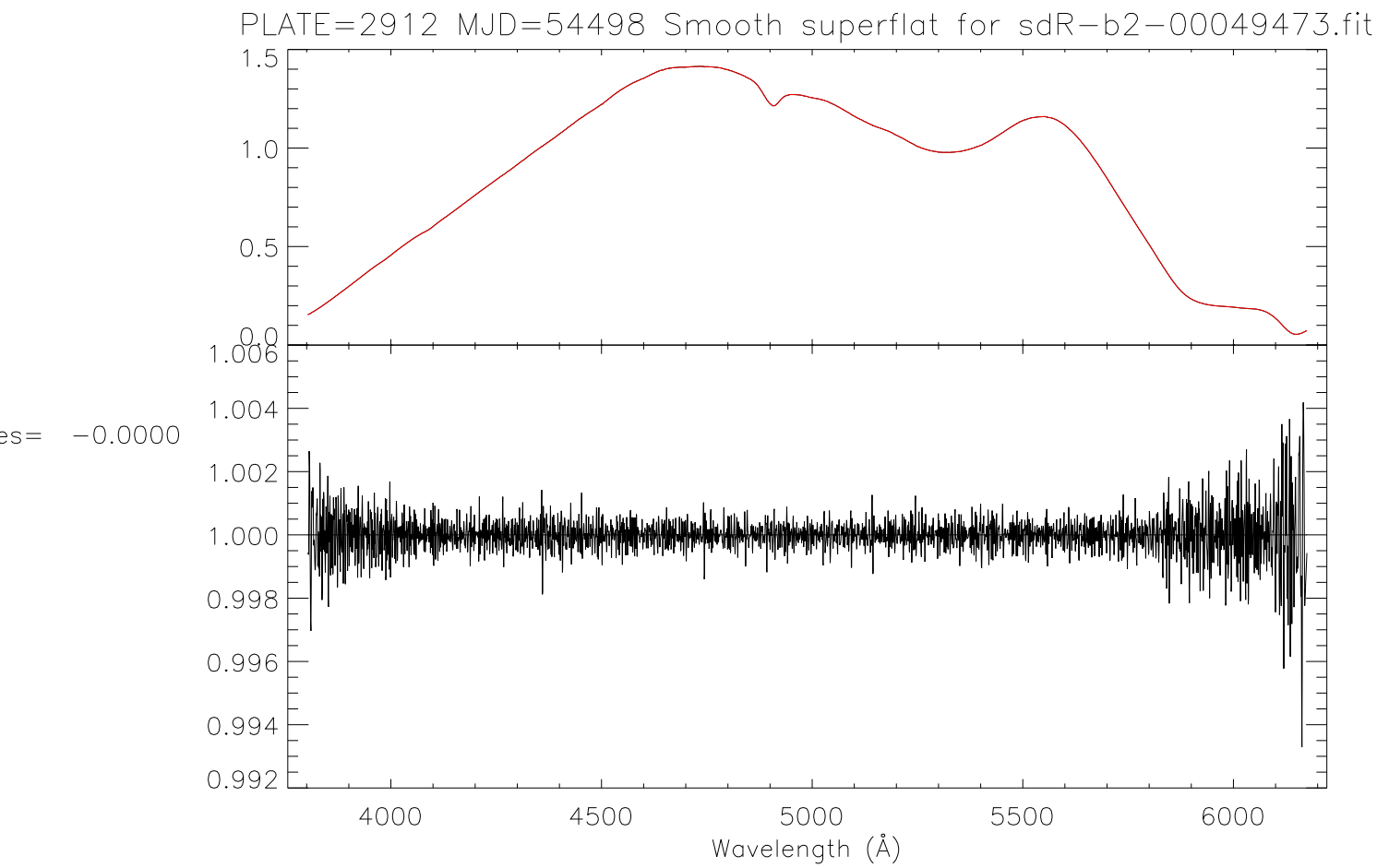

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

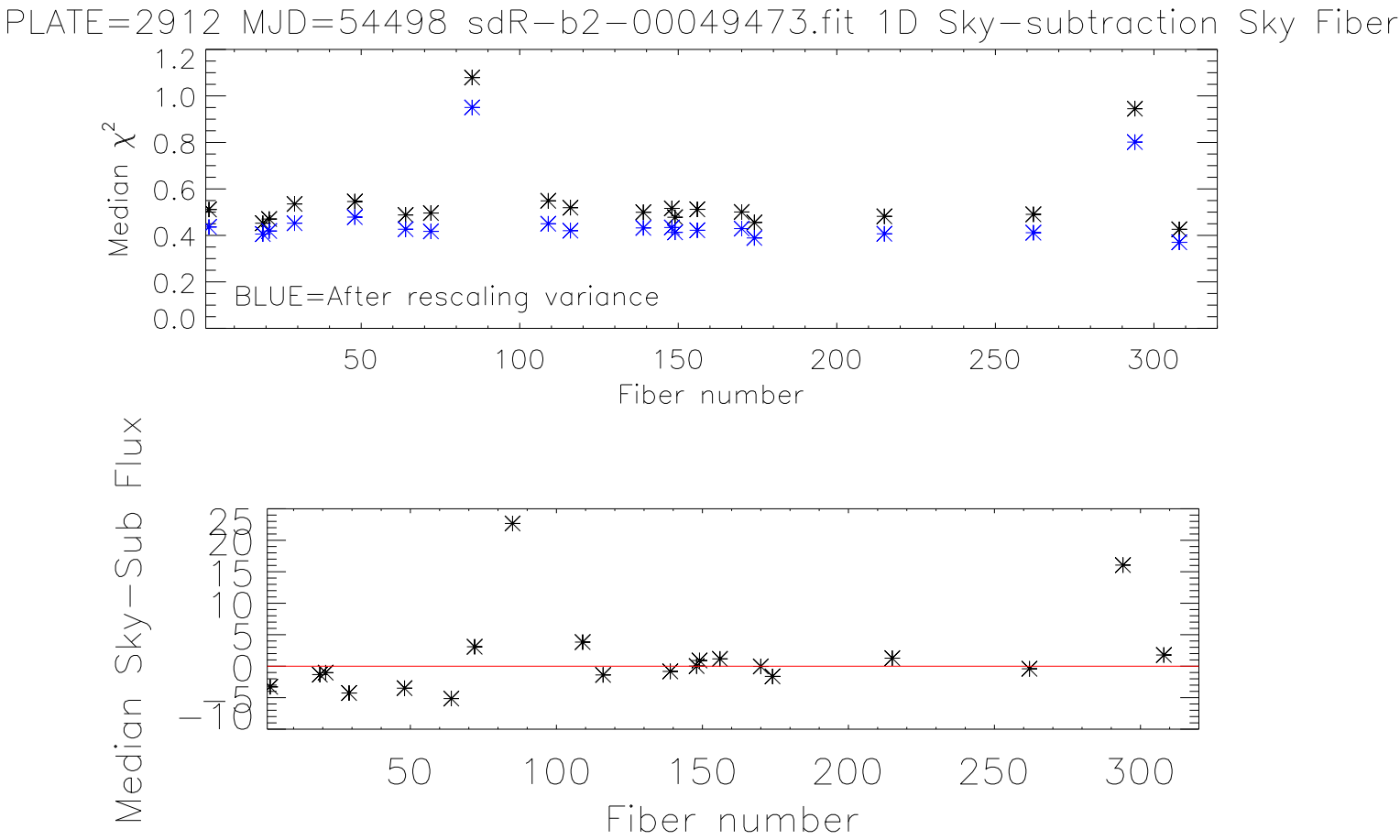

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

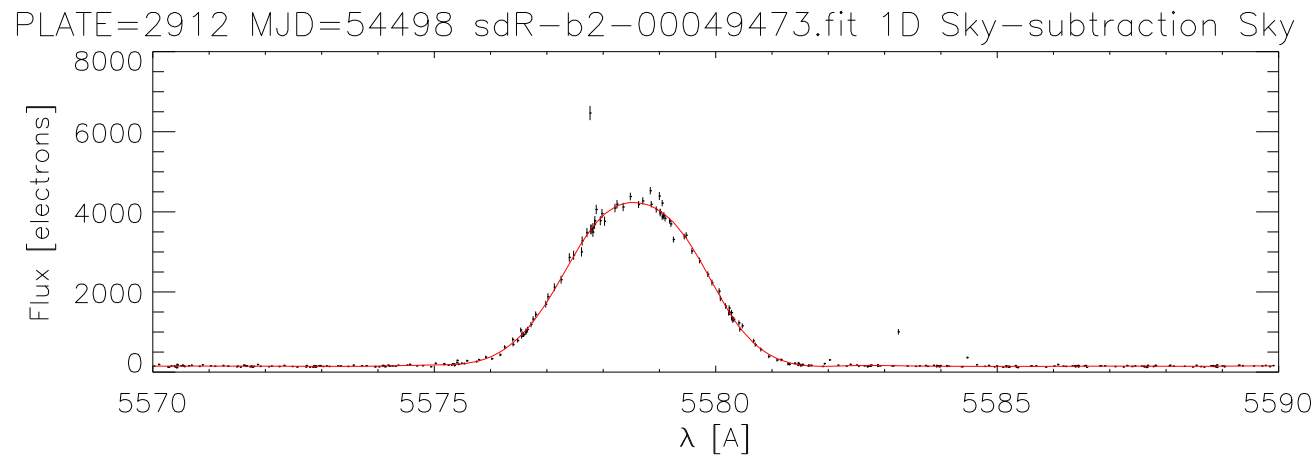

4046.5600
nfib1 22
nfib2 22
stdev 0.084
extra −0.07
4358.3300
nfib1 23
nfib2 23
stdev 0.035
extra −0.11
5460.9400
nfib1 23
nfib2 23
stdev 0.045
extra −0.02
5577.3390
nfib1 22
nfib2 23
stdev 0.017
extra 0.03
5889.9500
nfib1 23
nfib2 23
stdev 0.040
extra 0.13
5895.9240
nfib1 23
nfib2 23
stdev 0.041
extra 0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

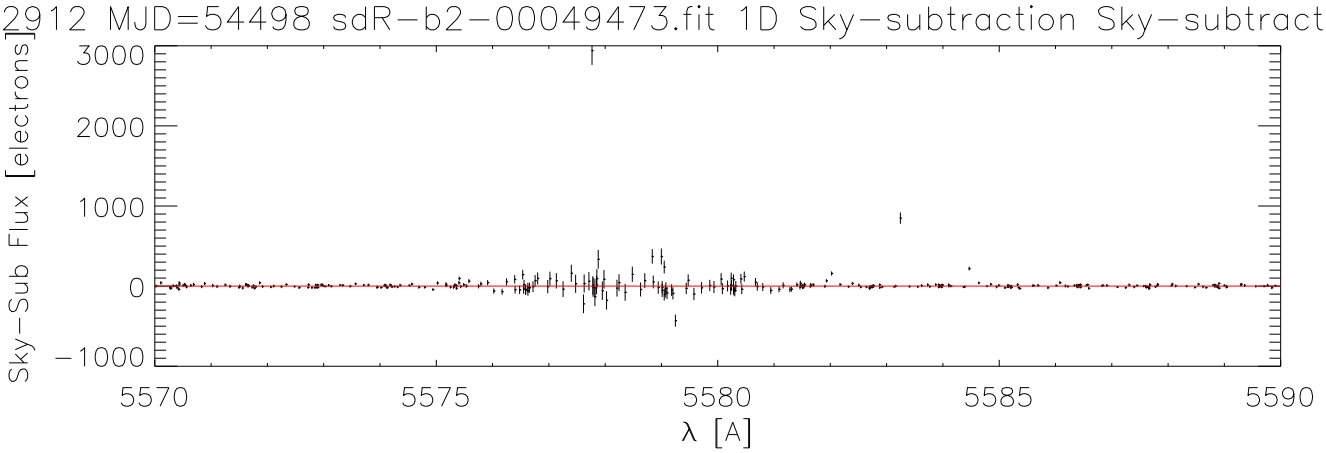

sky shift, pixels
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

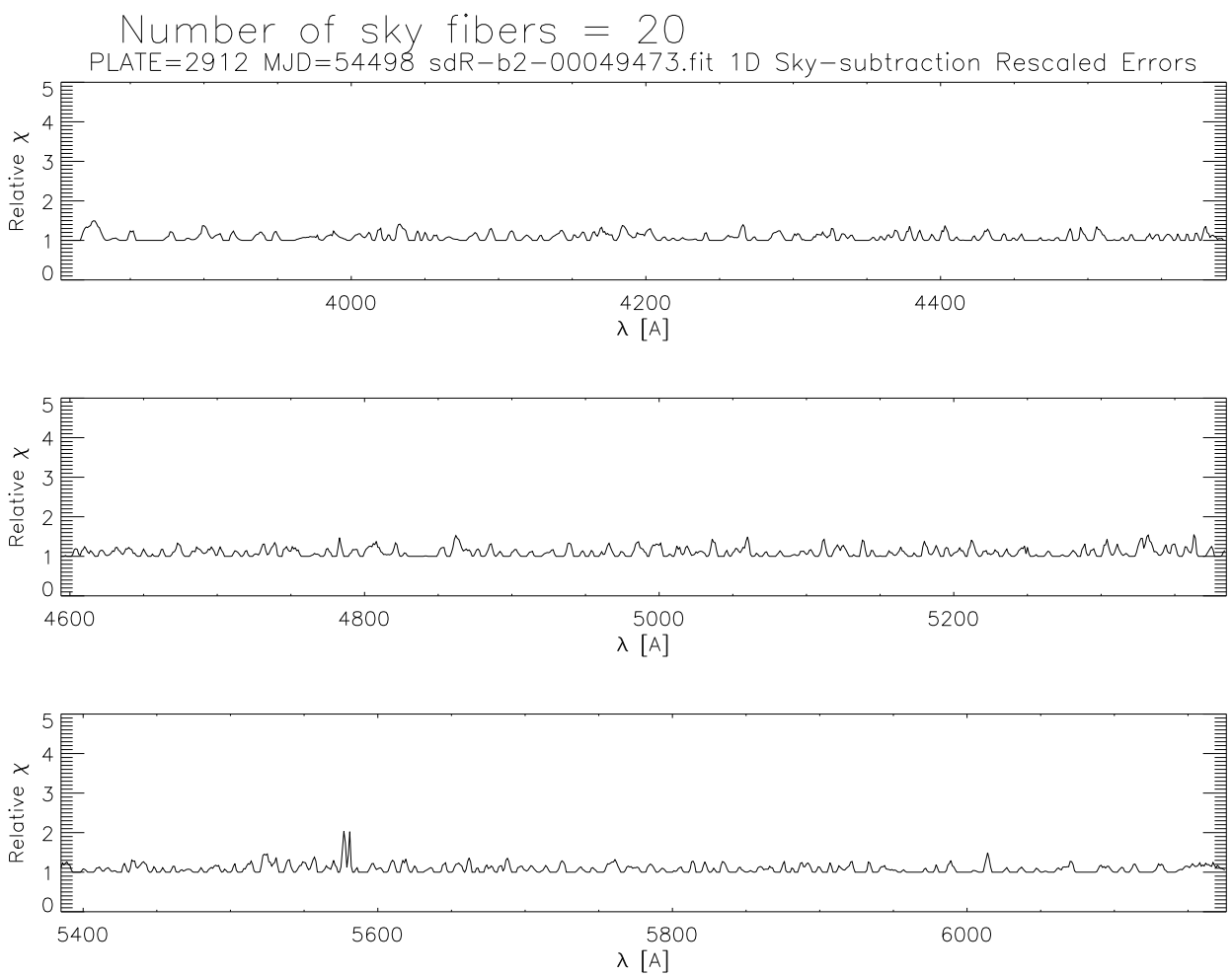

PLATE=2912 MJD=54498 Smooth superflat for sdR-b2-00049473.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

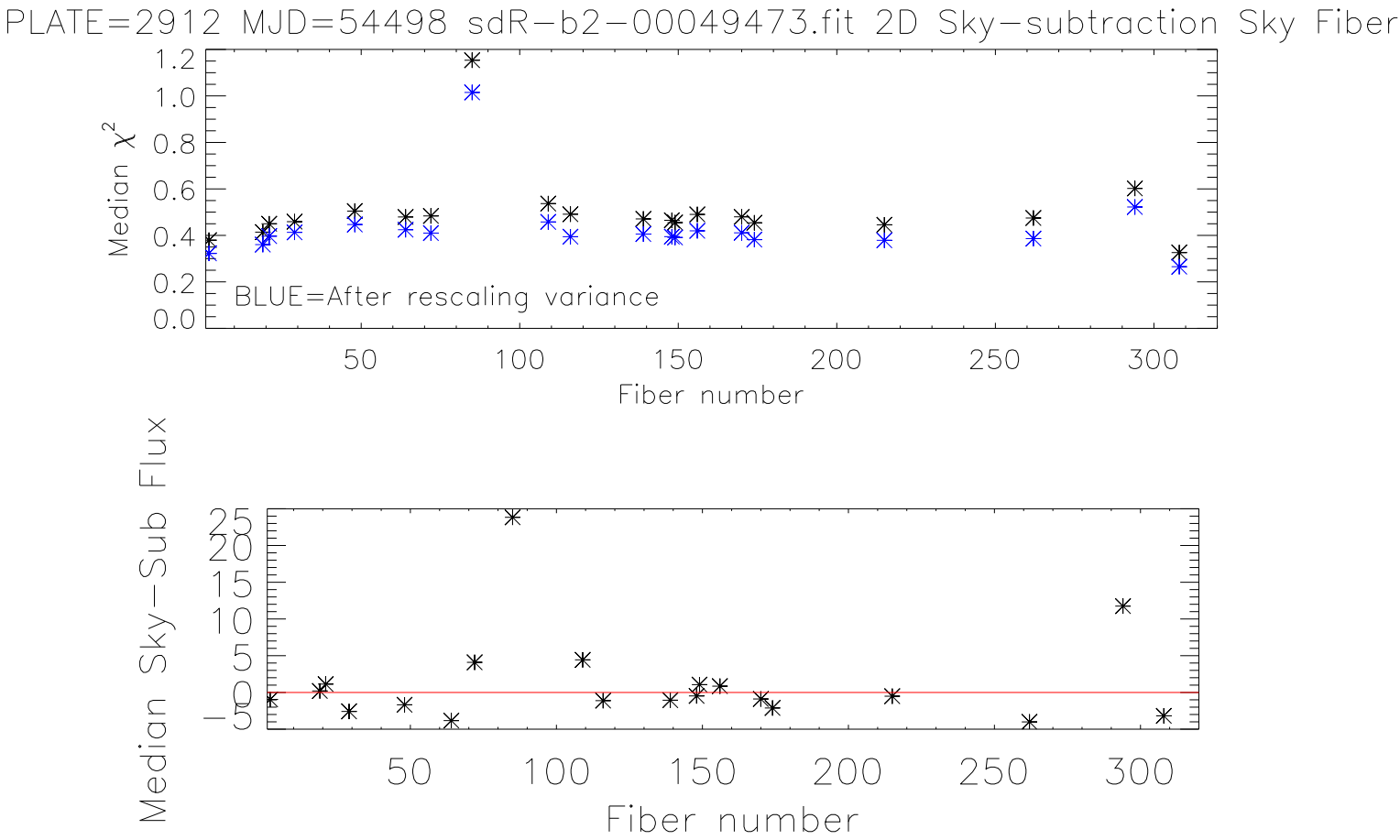
es= −0.0000

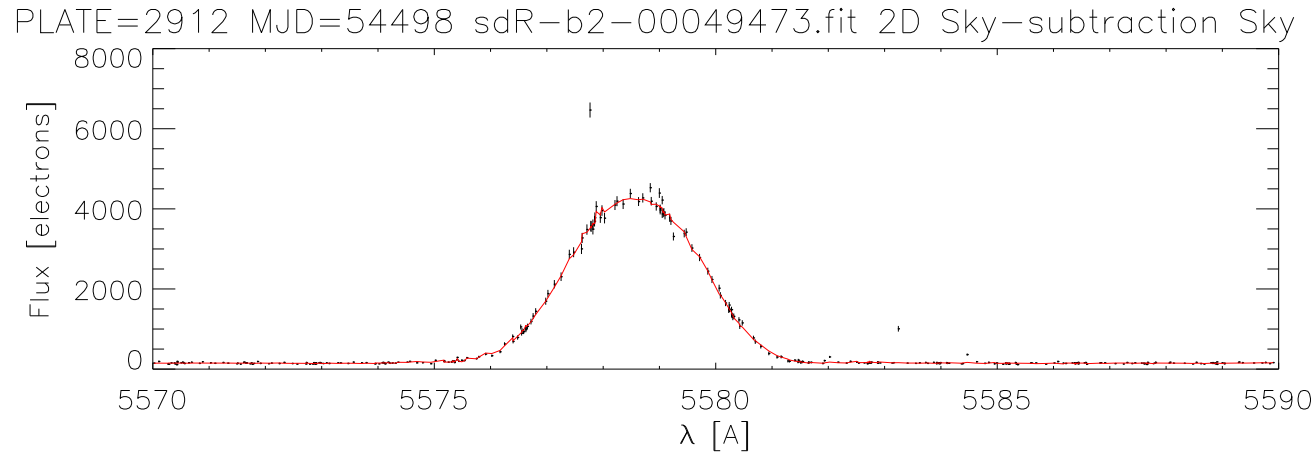

PLATE=2912 MJD=54498 sdR-b2-00049473.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

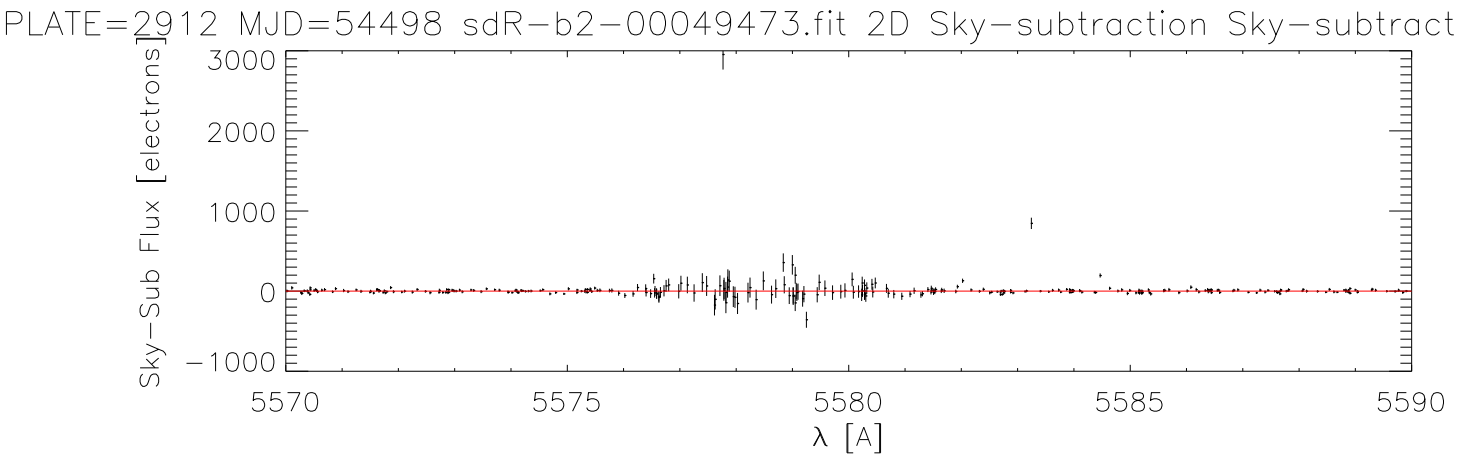

PLATE=2912 MJD=54498 sdR-b2-00049473.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

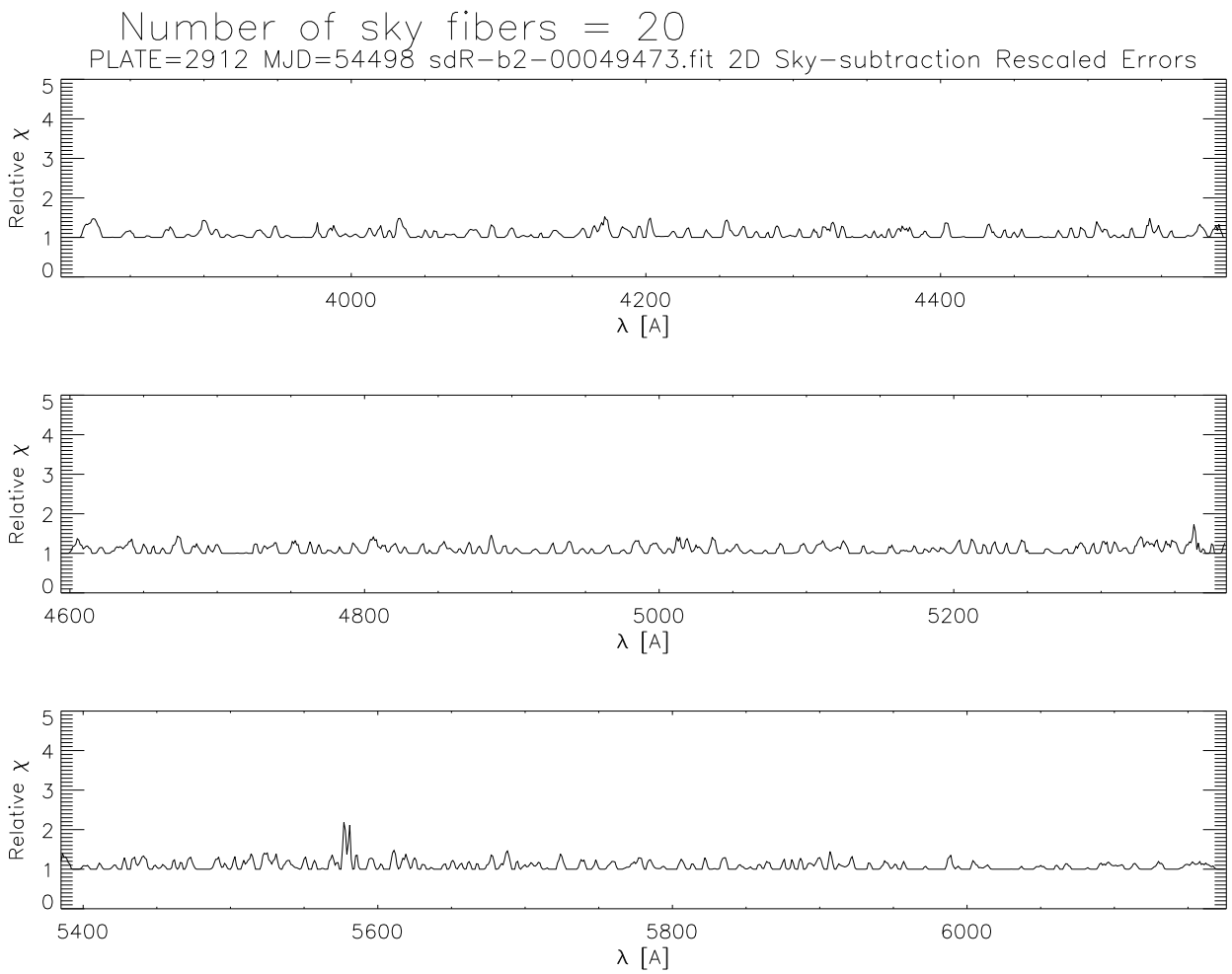

PLATE=2912 MJD=54498 sdR-b2-00049473.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

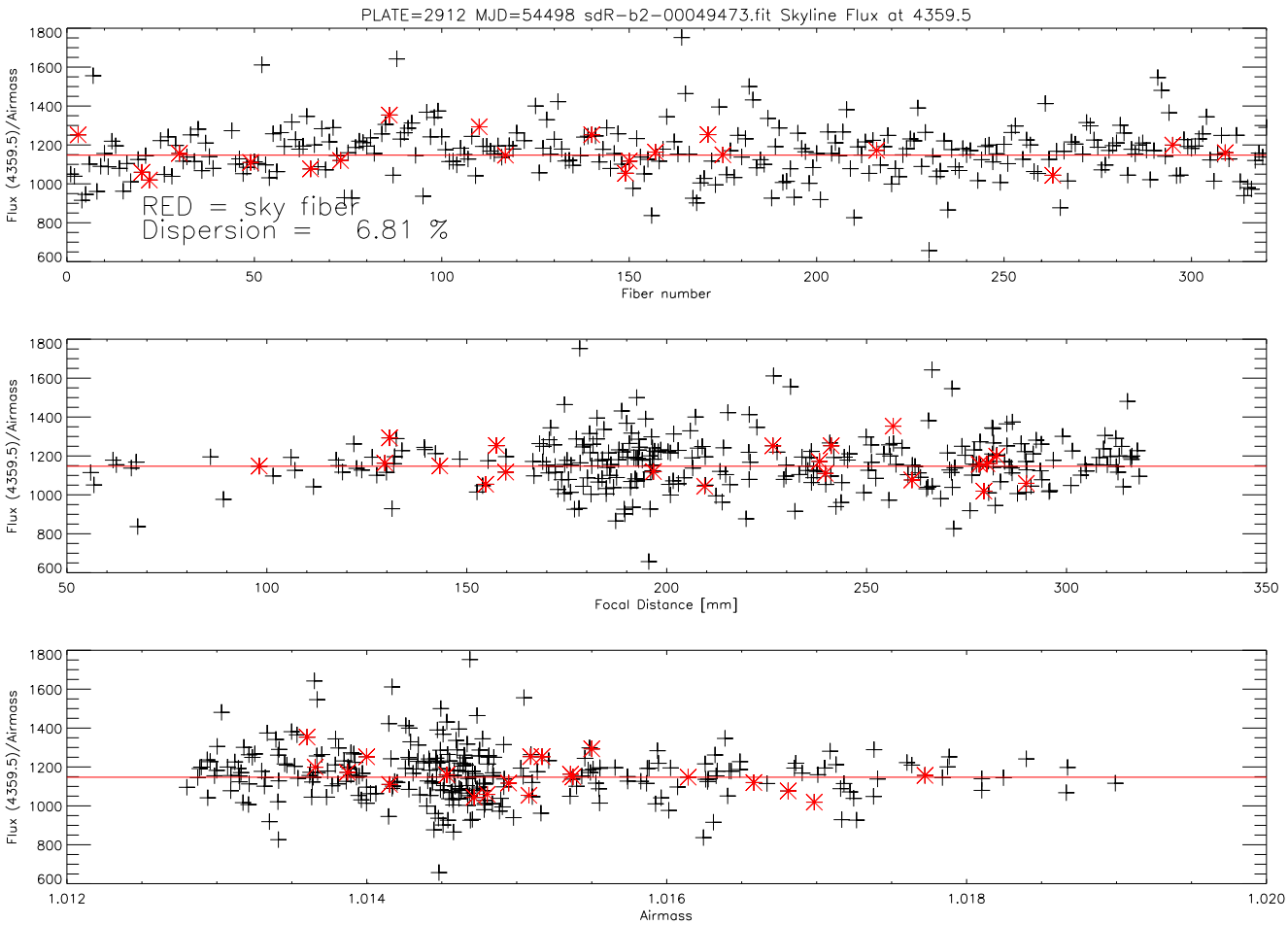

Number of sky fibers = 20
PLATE=2912 MJD=54498 sdR-b2-00049473.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

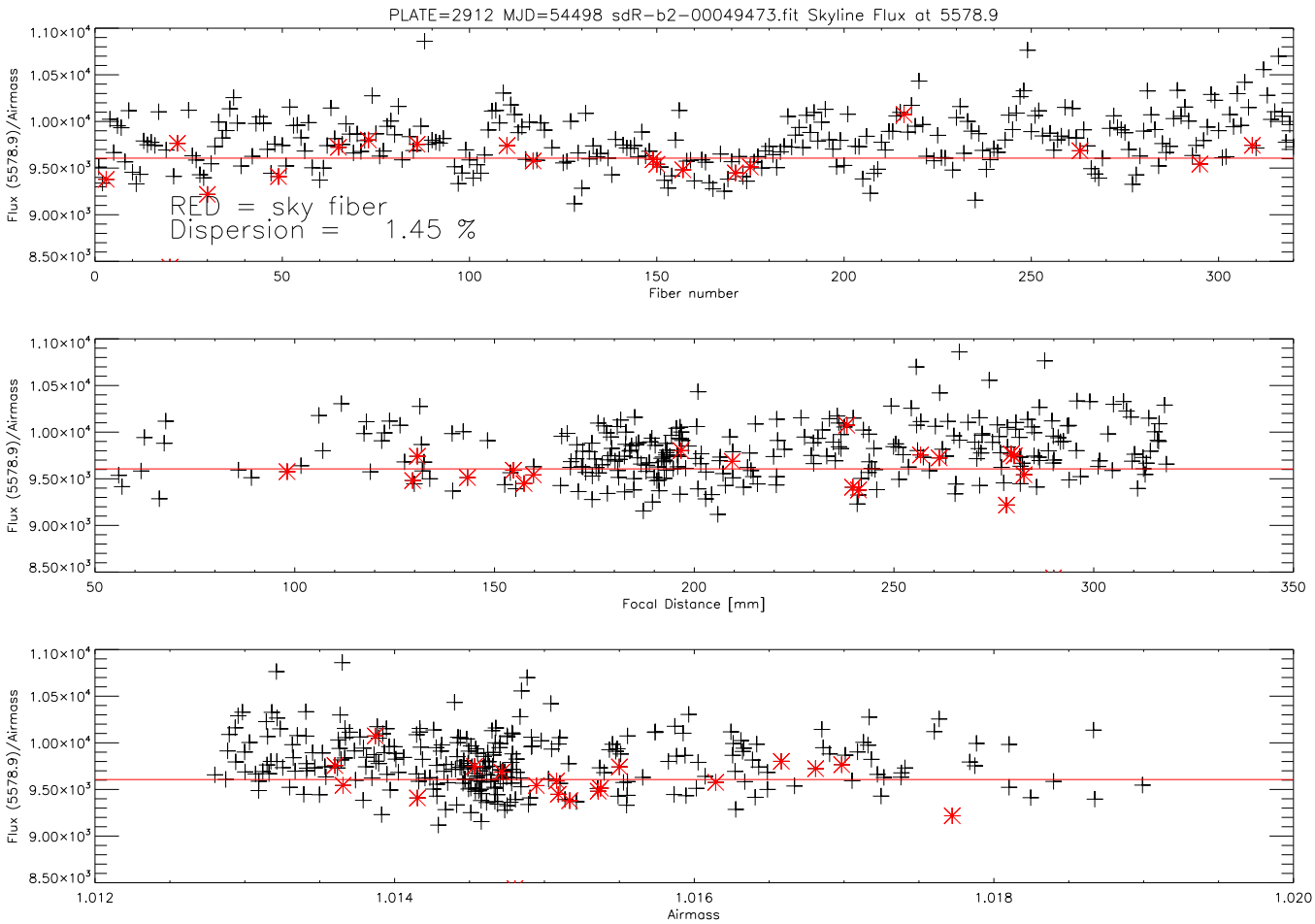

PLATE=2912 MJD=54498 sdR-b2-00049473.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

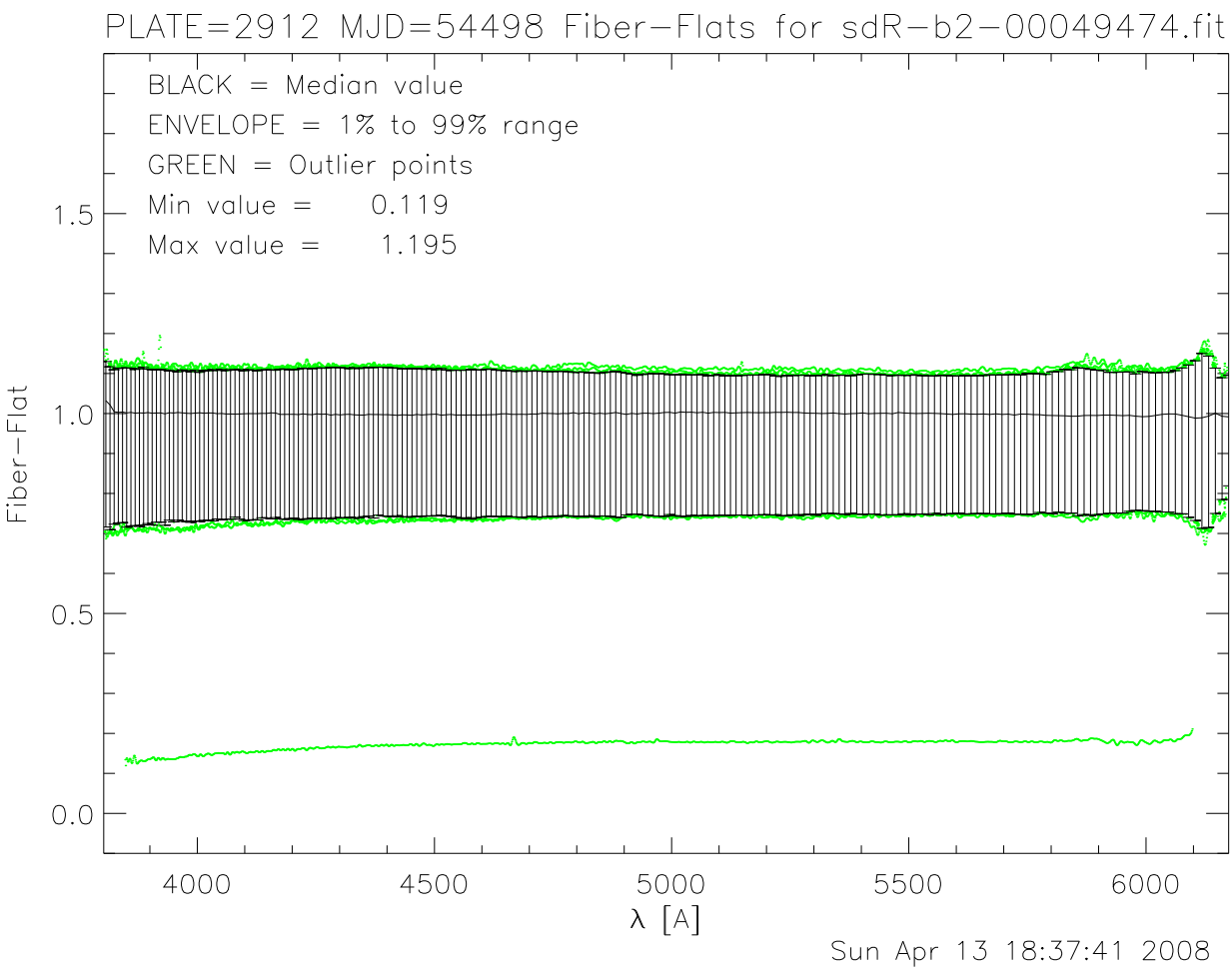

PLATE=2912 MJD=54498 sdR-b2-00049473.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

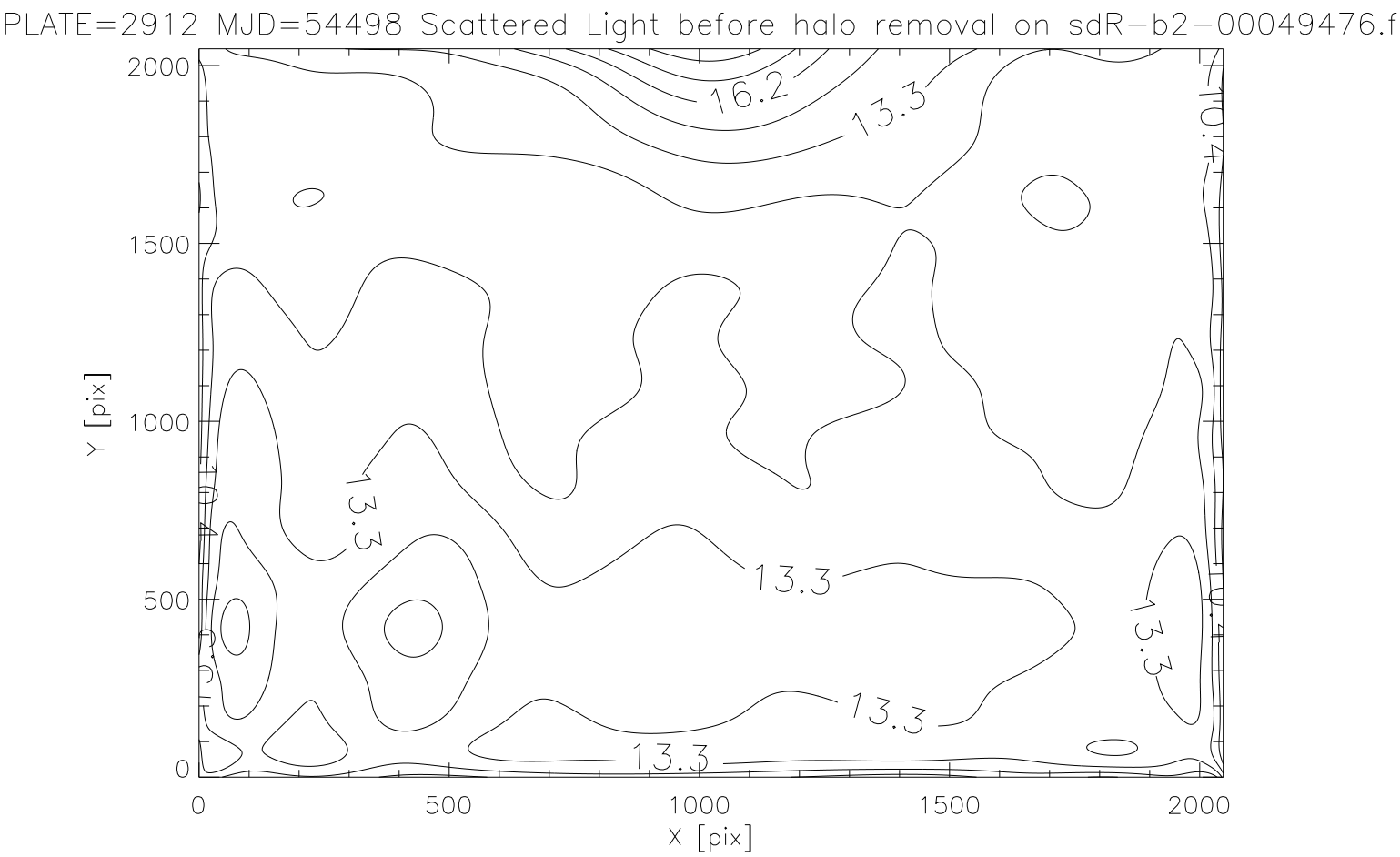

PLATE=2912 MJD=54498 sdR-b2-00049473.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

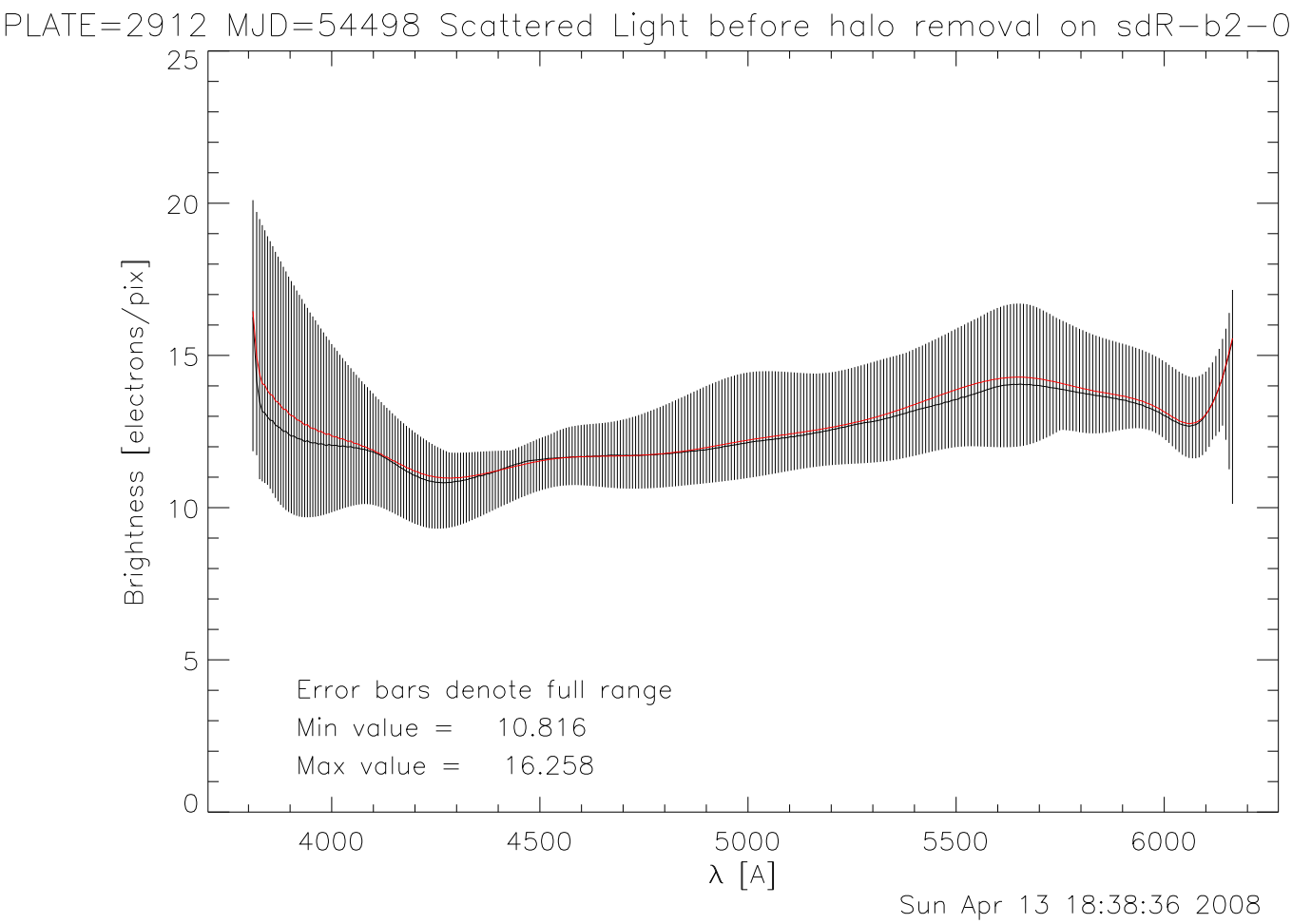

Number of sky fibers = 20
PLATE=2912 MJD=54498 sdR-b2-00049473.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

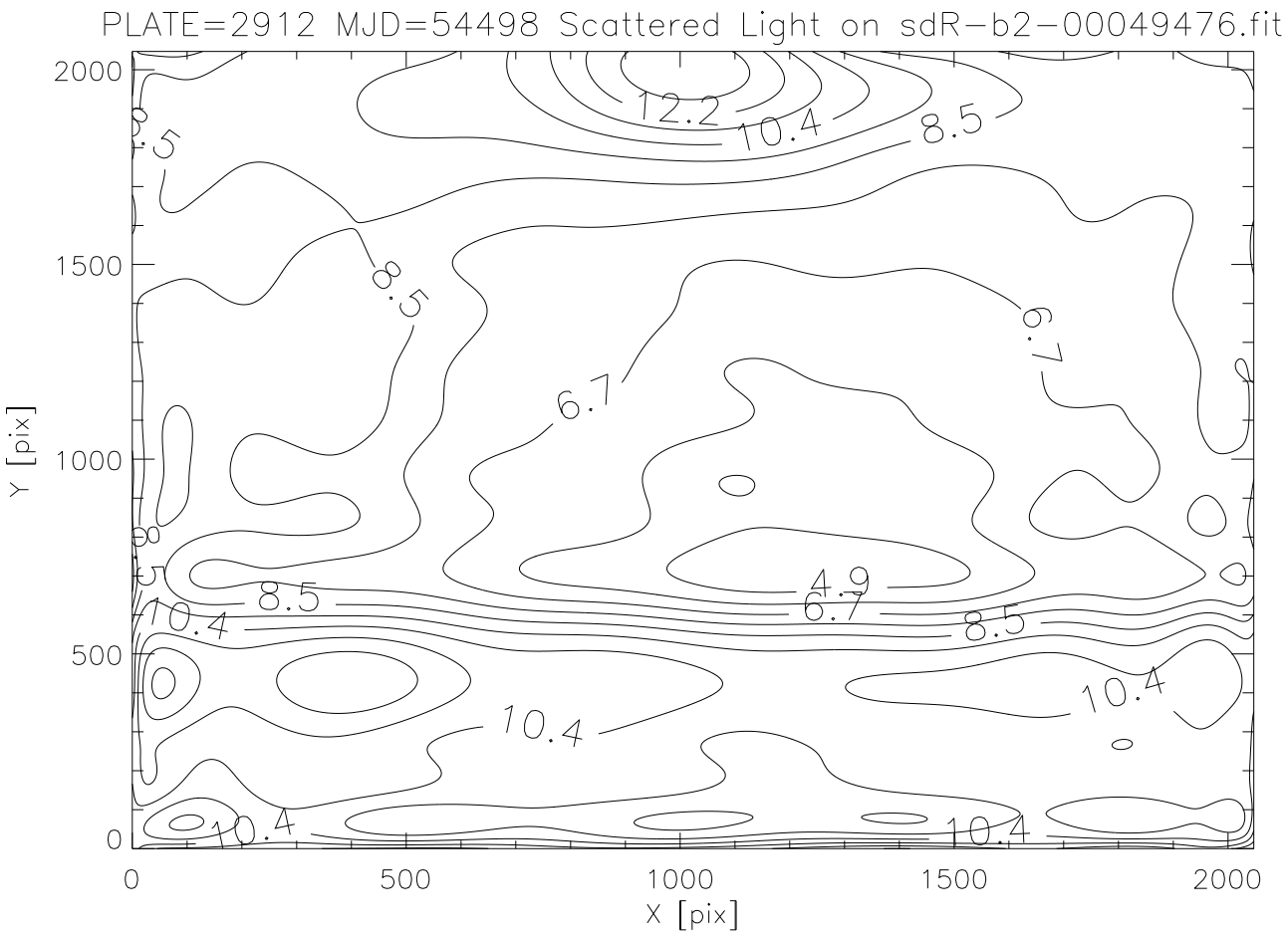

PLATE=2912 MJD=54498 sdR-b2-00049473.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 6.81 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

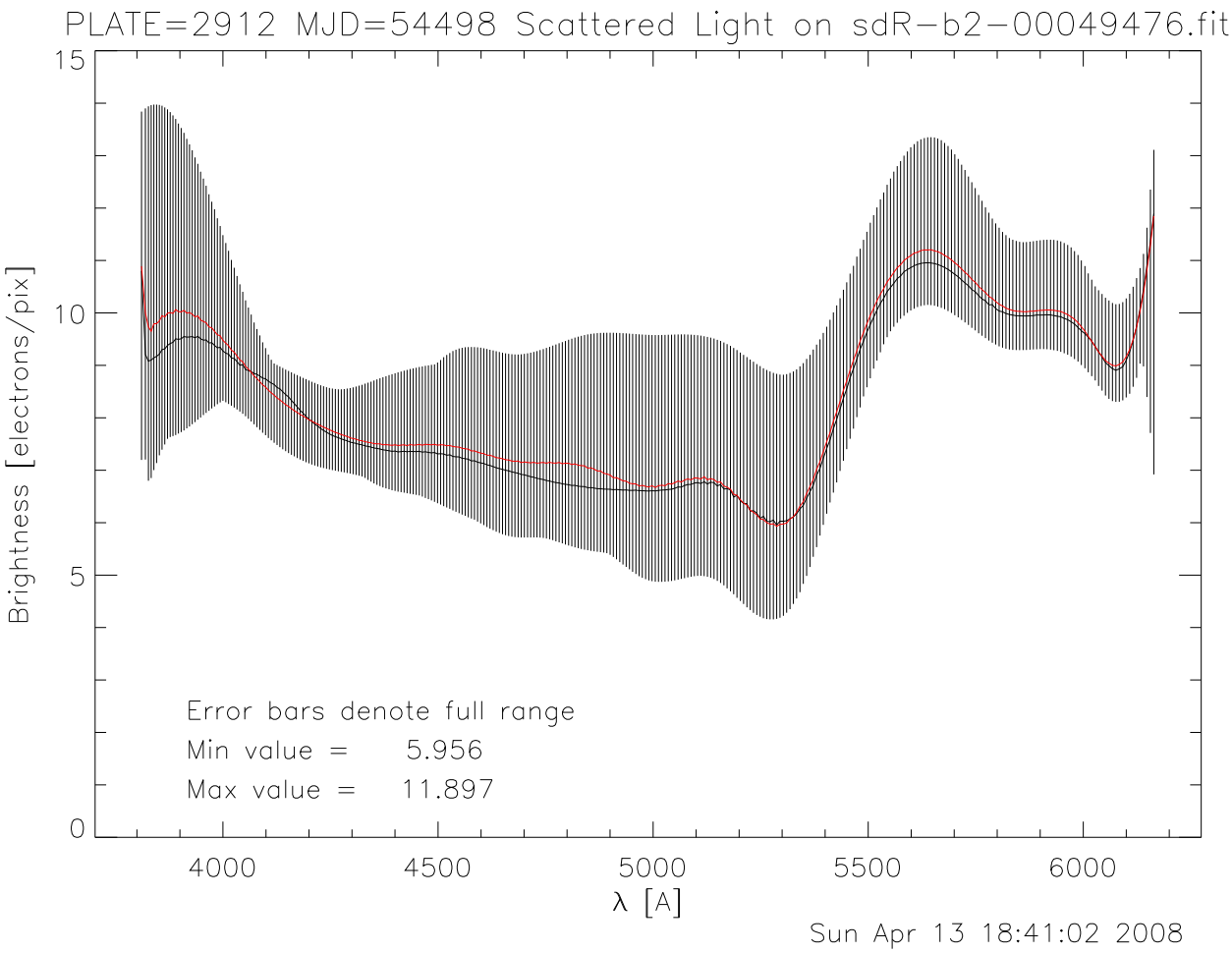

PLATE=2912 MJD=54498 sdR-b2-00049473.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.45 %
Fiber number
Focal Distance [mm]
Airmass

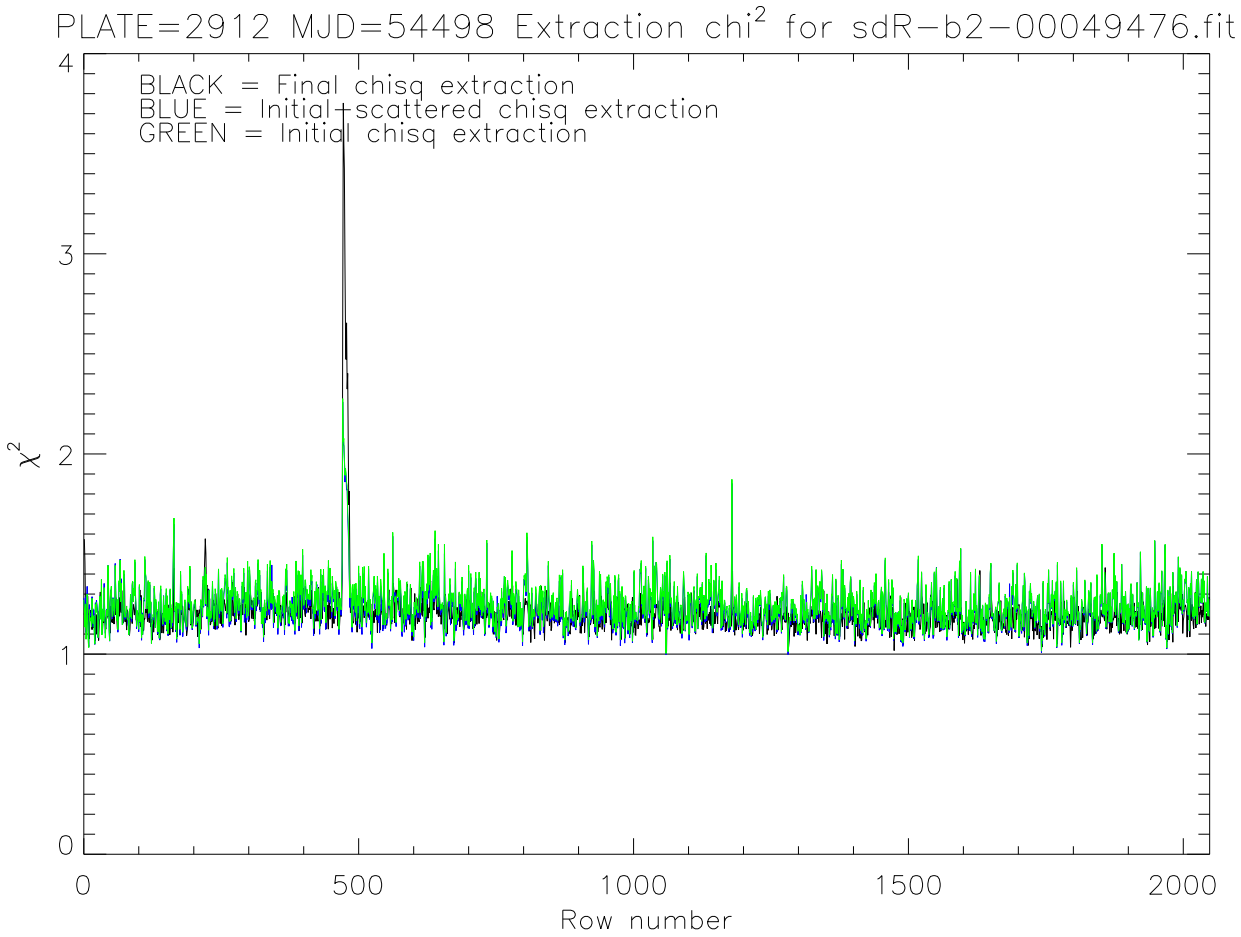

PLATE=2912 MJD=54498 Fiber-Flats for sdR-b2-00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.119
Max value = 1.195
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Apr 13 18:37:41 2008

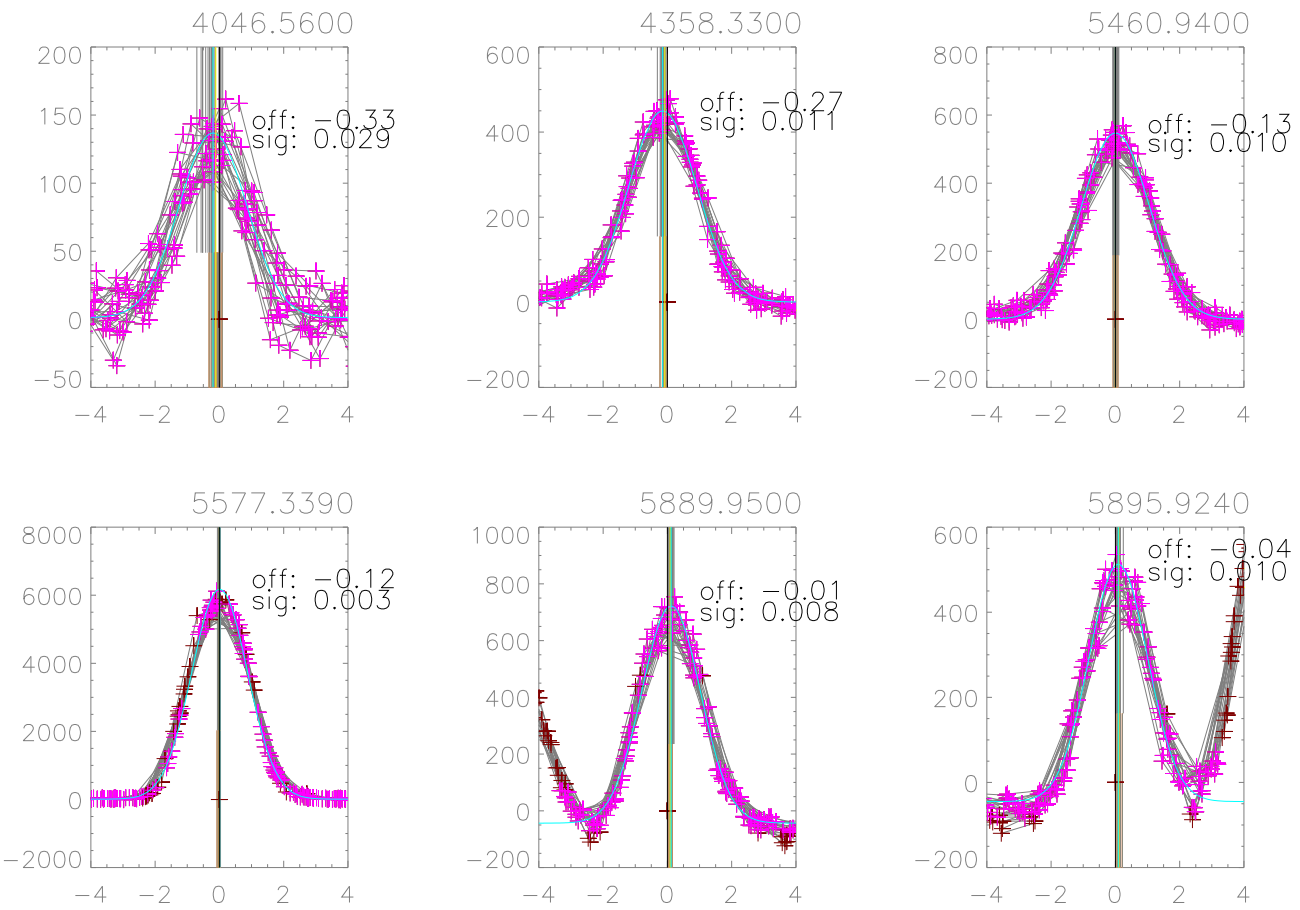

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR−b2−00049476.f
16.2
13.3
13.3
13.3
13.3
13.3
13.3
0
0
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

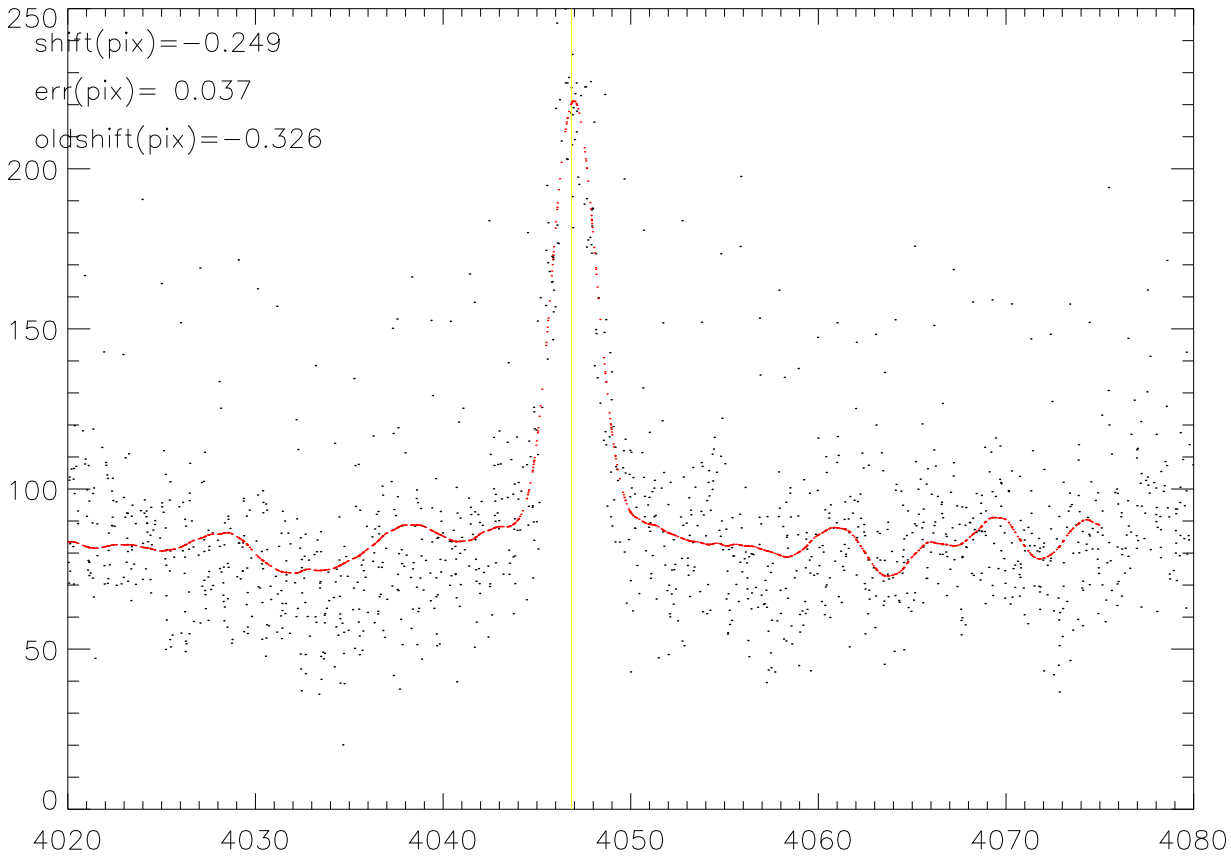

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-b2-00049476.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.816
Max value = 16.258
Sun Apr 13 18:38:36 2008

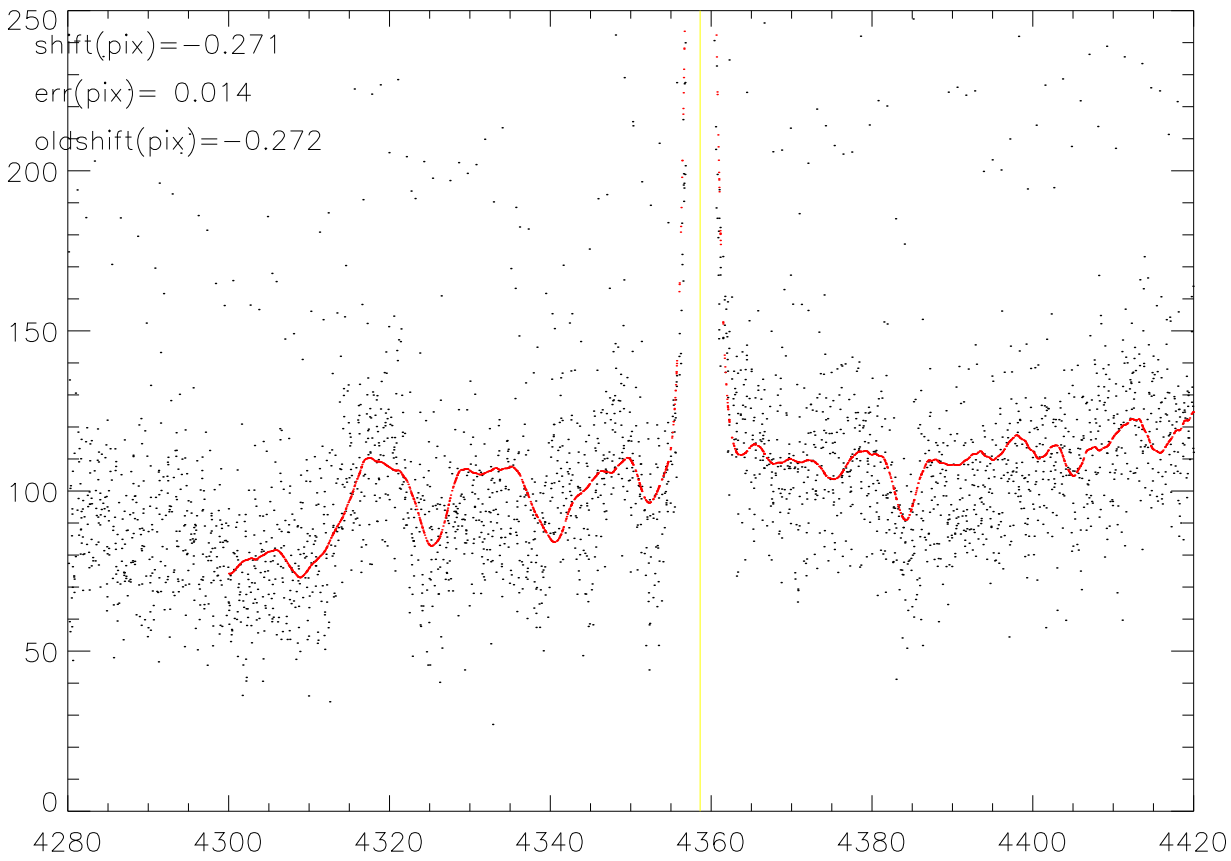

PLATE=2912 MJD=54498 Scattered Light on sdR-b2-00049476.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
12.2
10.4
8.5
6.7
4.9

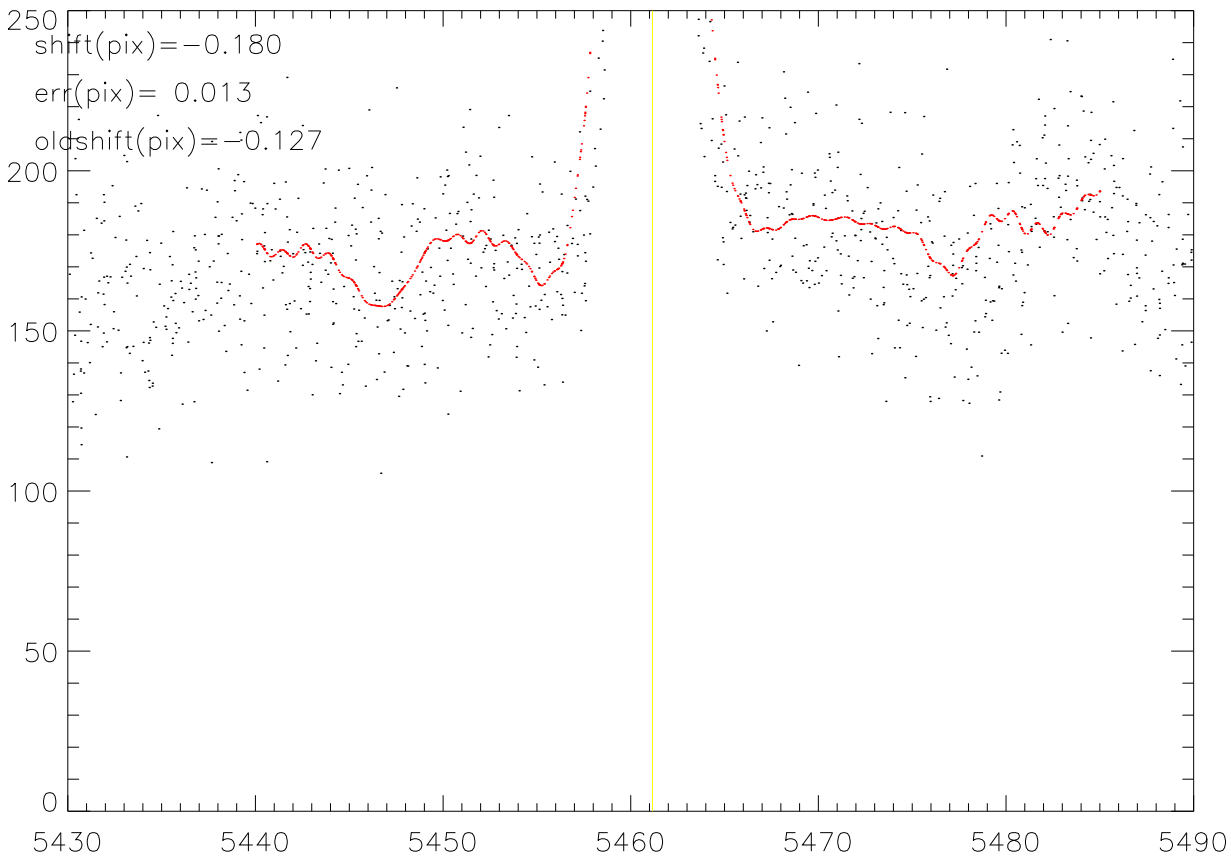

PLATE=2912 MJD=54498 Scattered Light on sdR-b2-00049476.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.956
Max value = 11.897
Sun Apr 13 18:41:02 2008

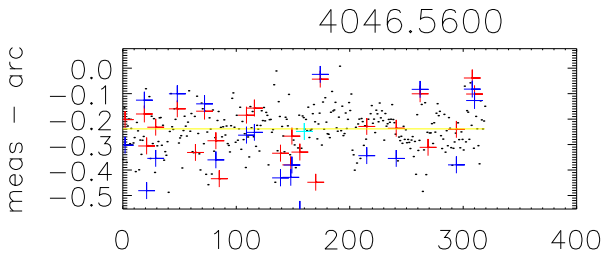

PLATE=2912 MJD=54498 Extraction chi^2 for sdR-b2-00049476.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

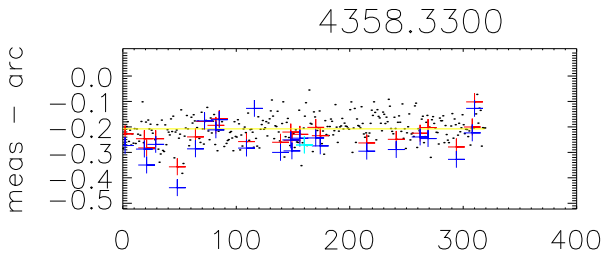

4046.5600
off: −0.33
sig: 0.029
4358.3300
off: −0.27
sig: 0.011
5460.9400
off: −0.13
sig: 0.010
5577.3390
off: −0.12
sig: 0.003
5889.9500
off: −0.01
sig: 0.008
5895.9240
off: −0.04
sig: 0.010

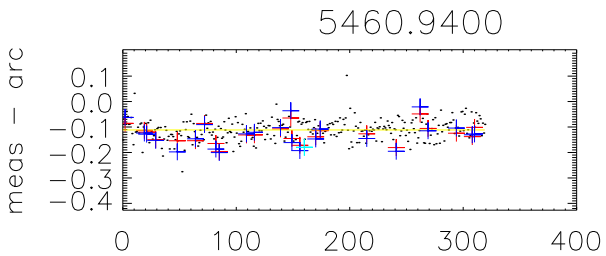

shift(pix)=−0.249
err(pix)= 0.037
oldshift(pix)=−0.326
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

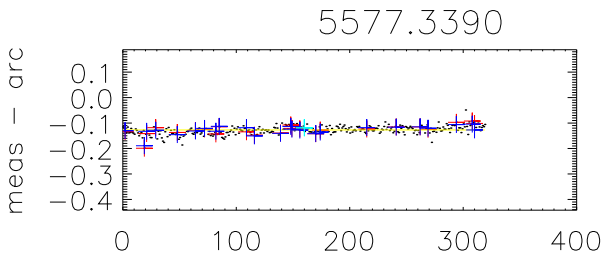

shift(pix)=−0.271
err(pix)= 0.014
oldshift(pix)=−0.272
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

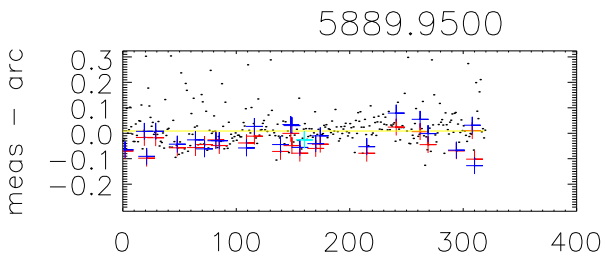

shift(pix)=−0.180
err(pix)= 0.013
oldshift(pix)=−0.127
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

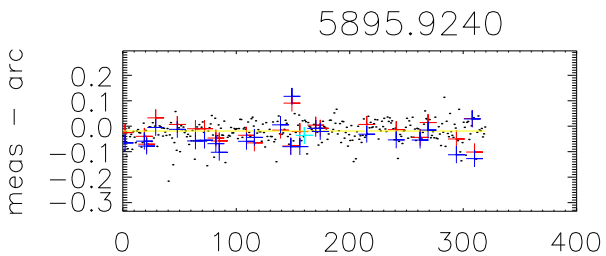

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

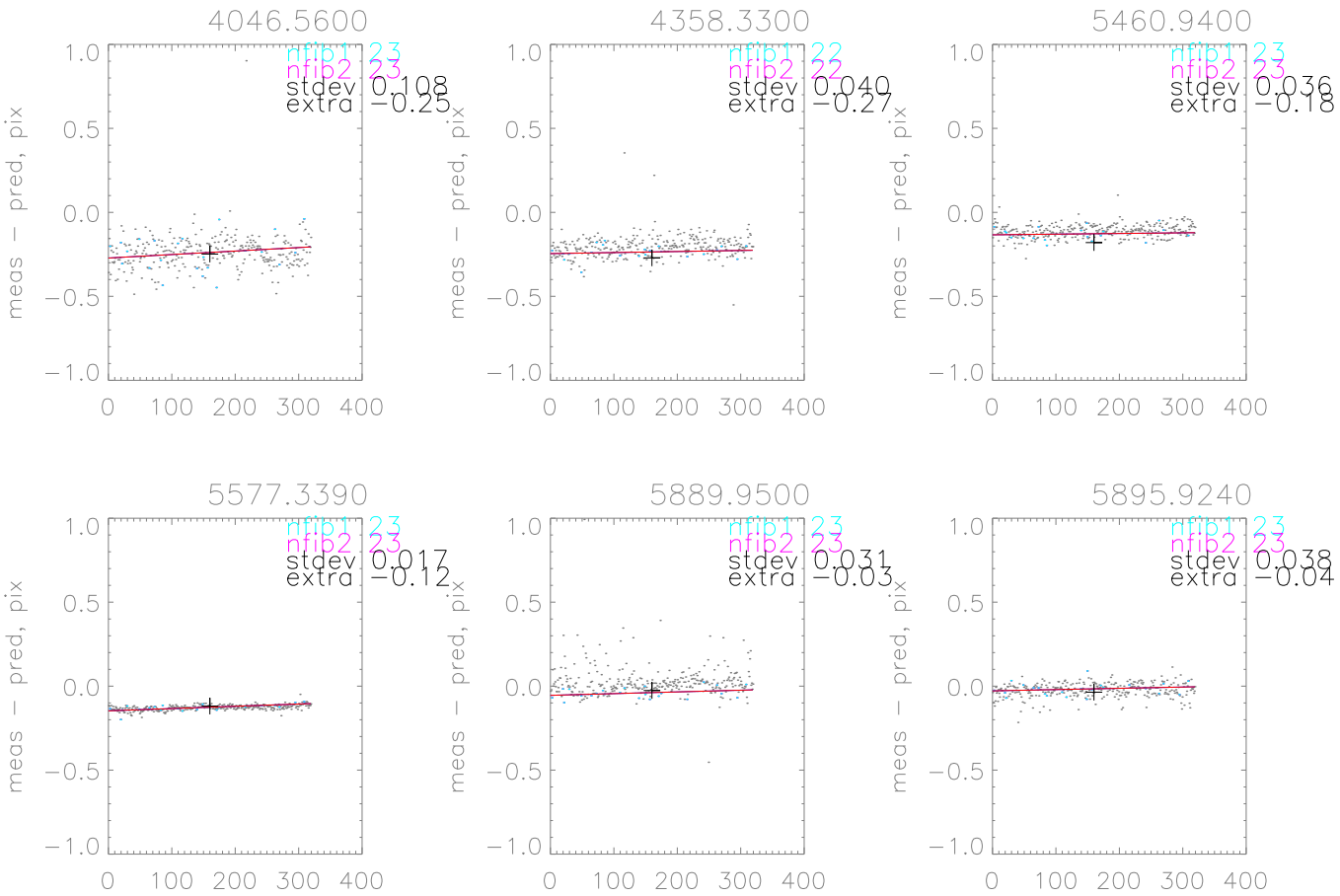

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

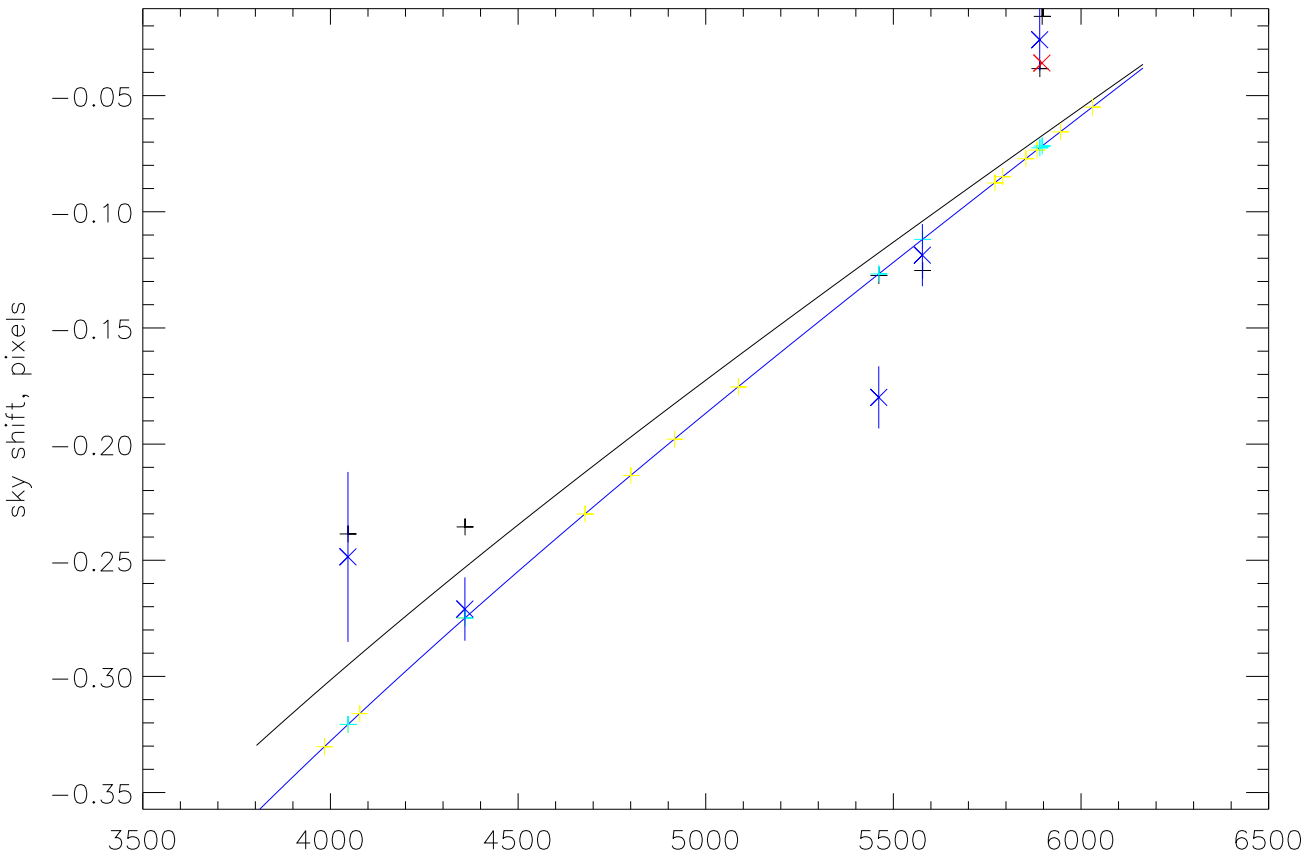

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

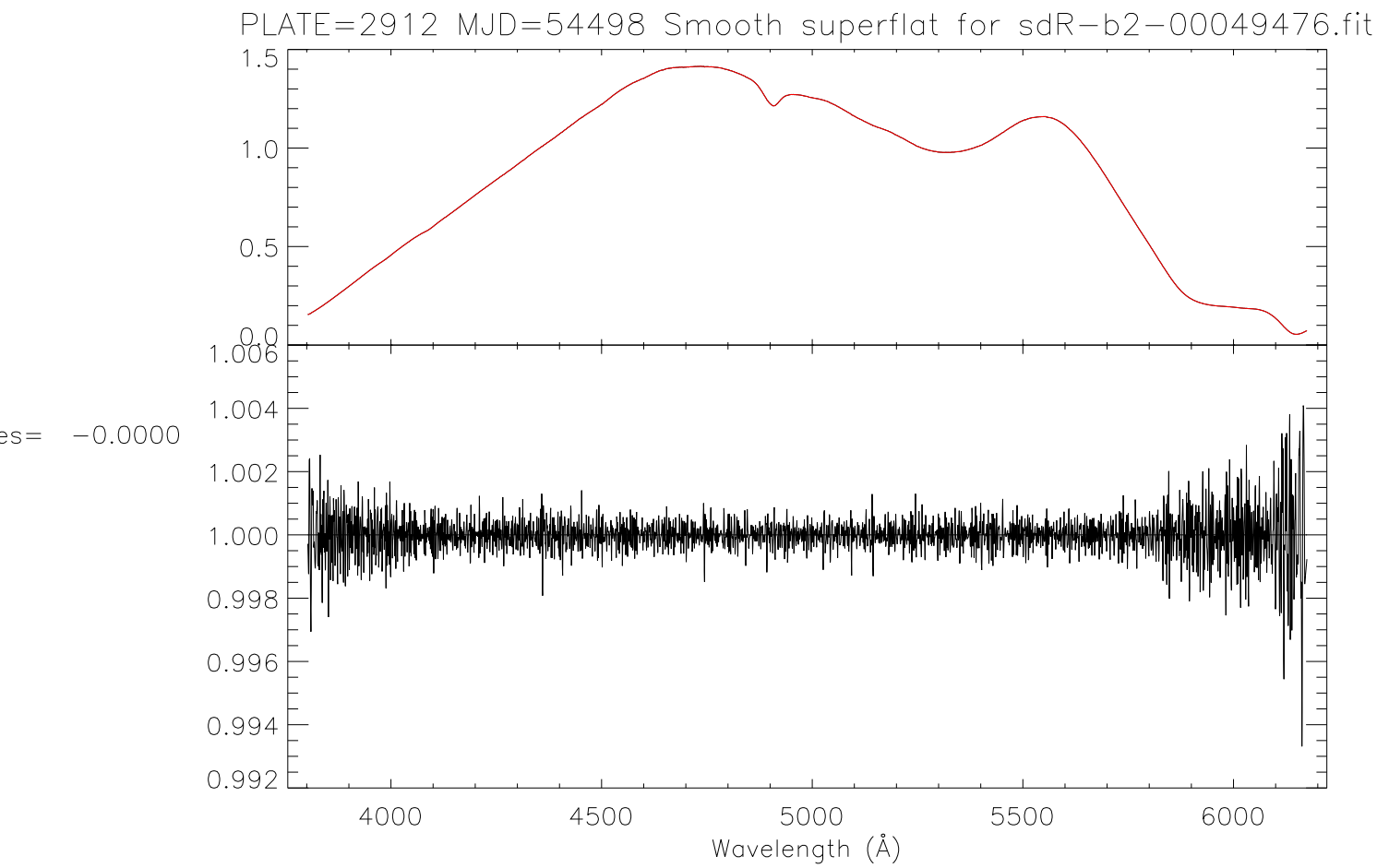

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

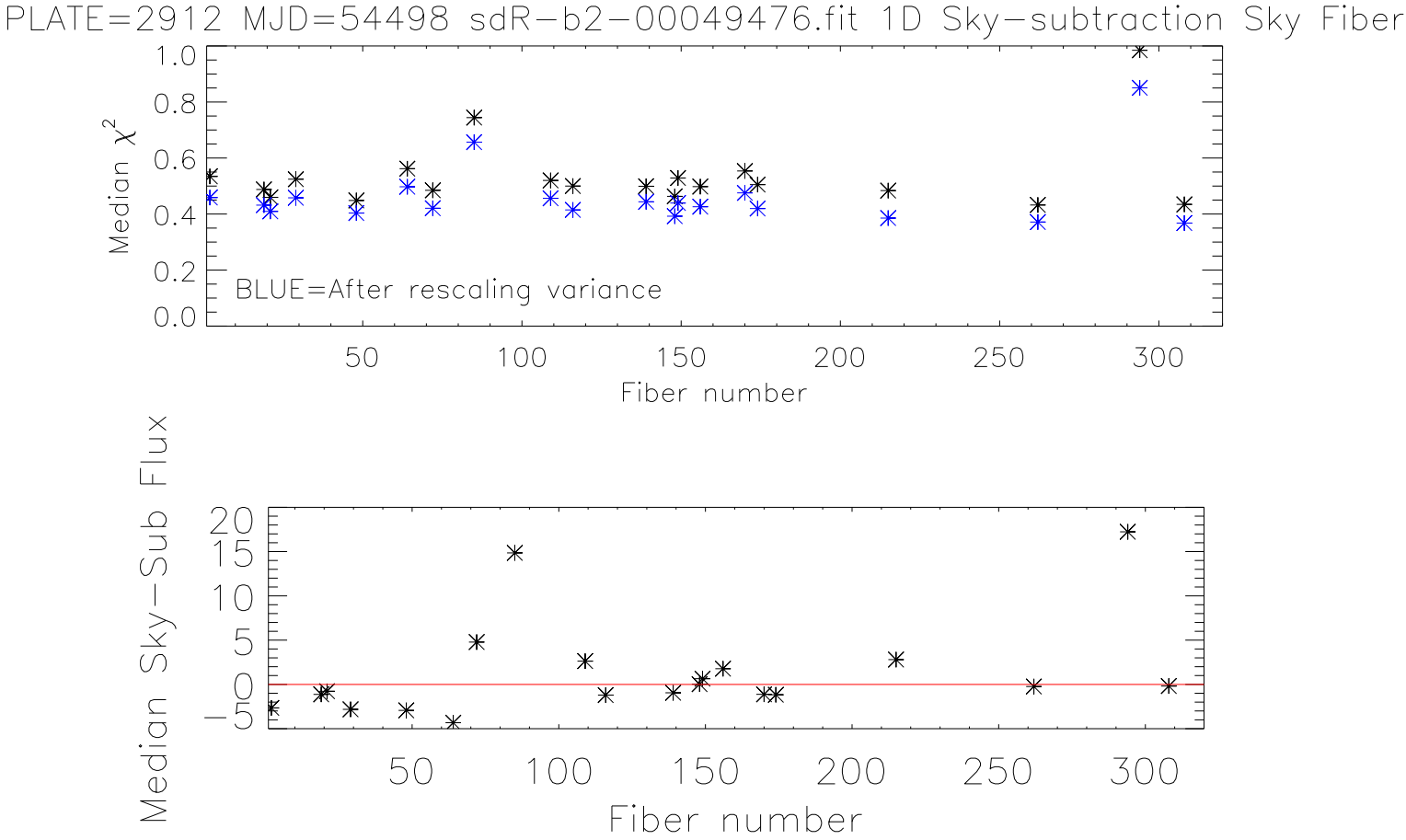

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

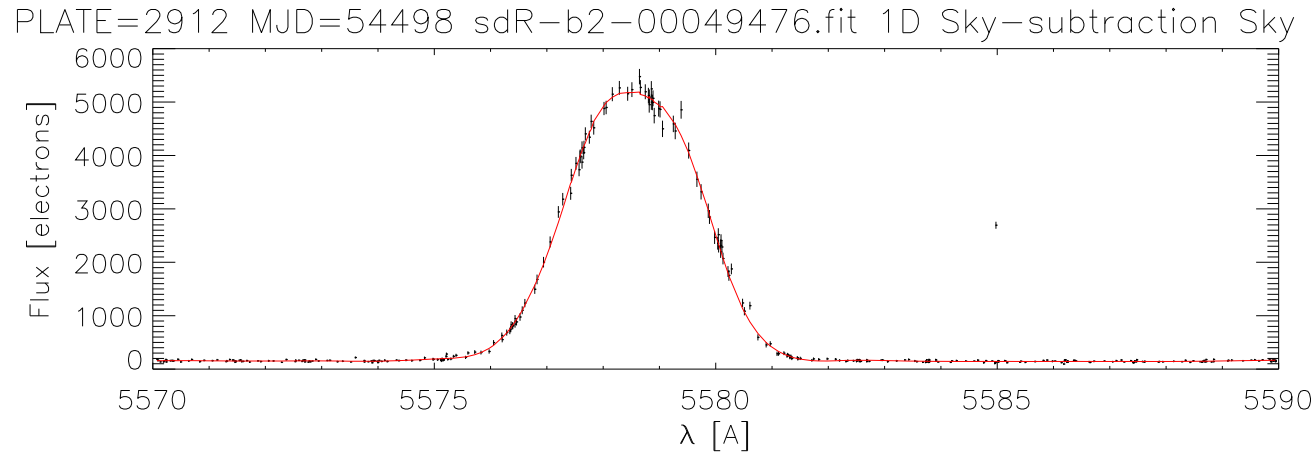

4046.5600
nfib1 23
nfib2 23
stdev 0.108
extra −0.25
4358.3300
nfib1 22
nfib2 22
stdev 0.040
extra −0.27
5460.9400
nfib1 23
nfib2 23
stdev 0.036
extra −0.18
5577.3390
nfib1 23
nfib2 23
stdev 0.017
extra −0.12
5889.9500
nfib1 23
nfib2 23
stdev 0.031
extra −0.03
5895.9240
nfib1 23
nfib2 23
stdev 0.038
extra −0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

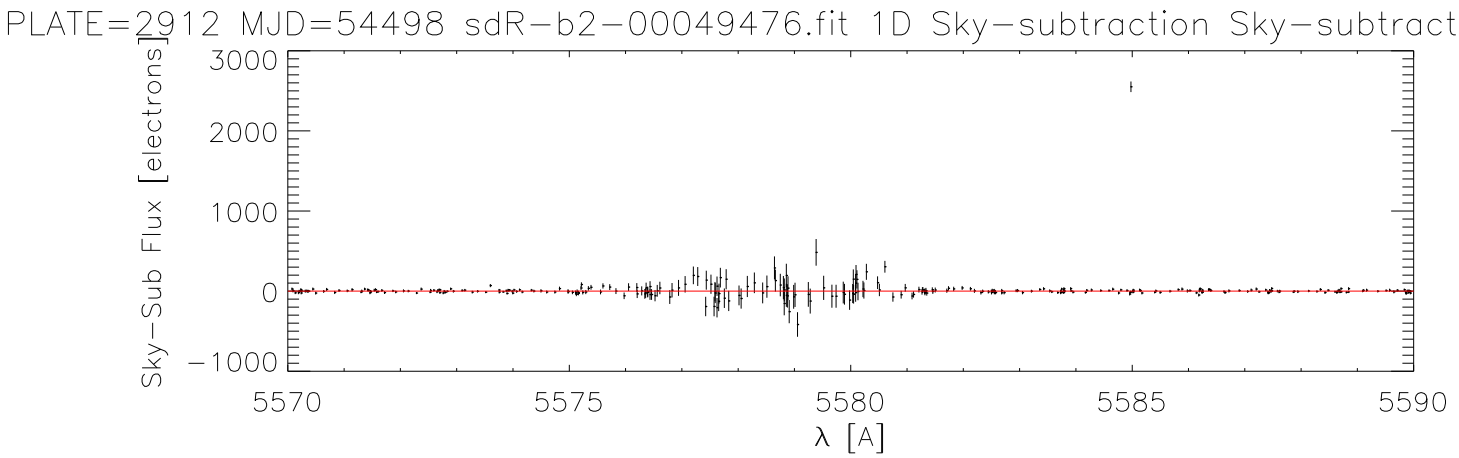

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
3500
4000
4500
5000
5500
6000
6500

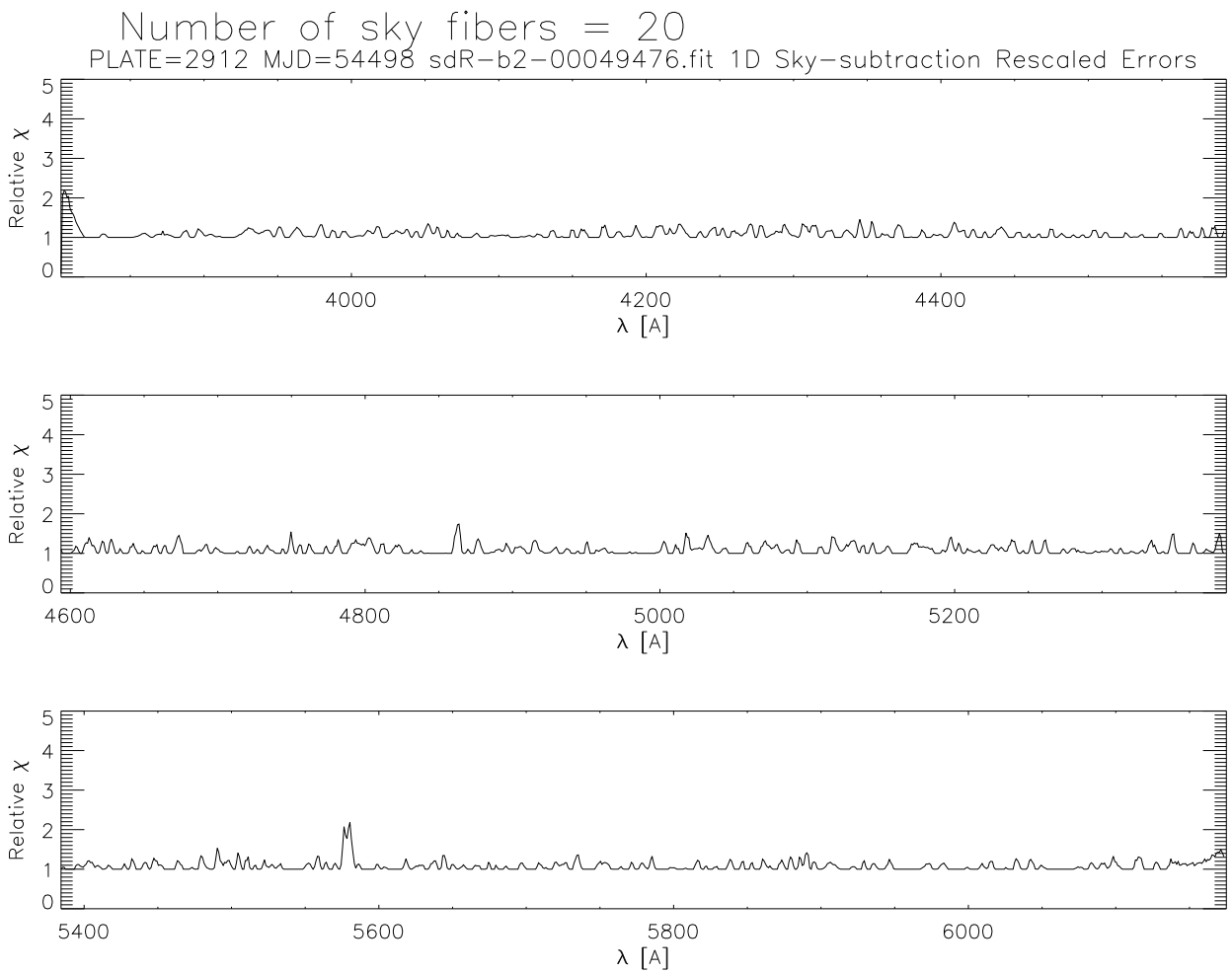

PLATE=2912 MJD=54498 Smooth superflat for sdR-b2-00049476.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

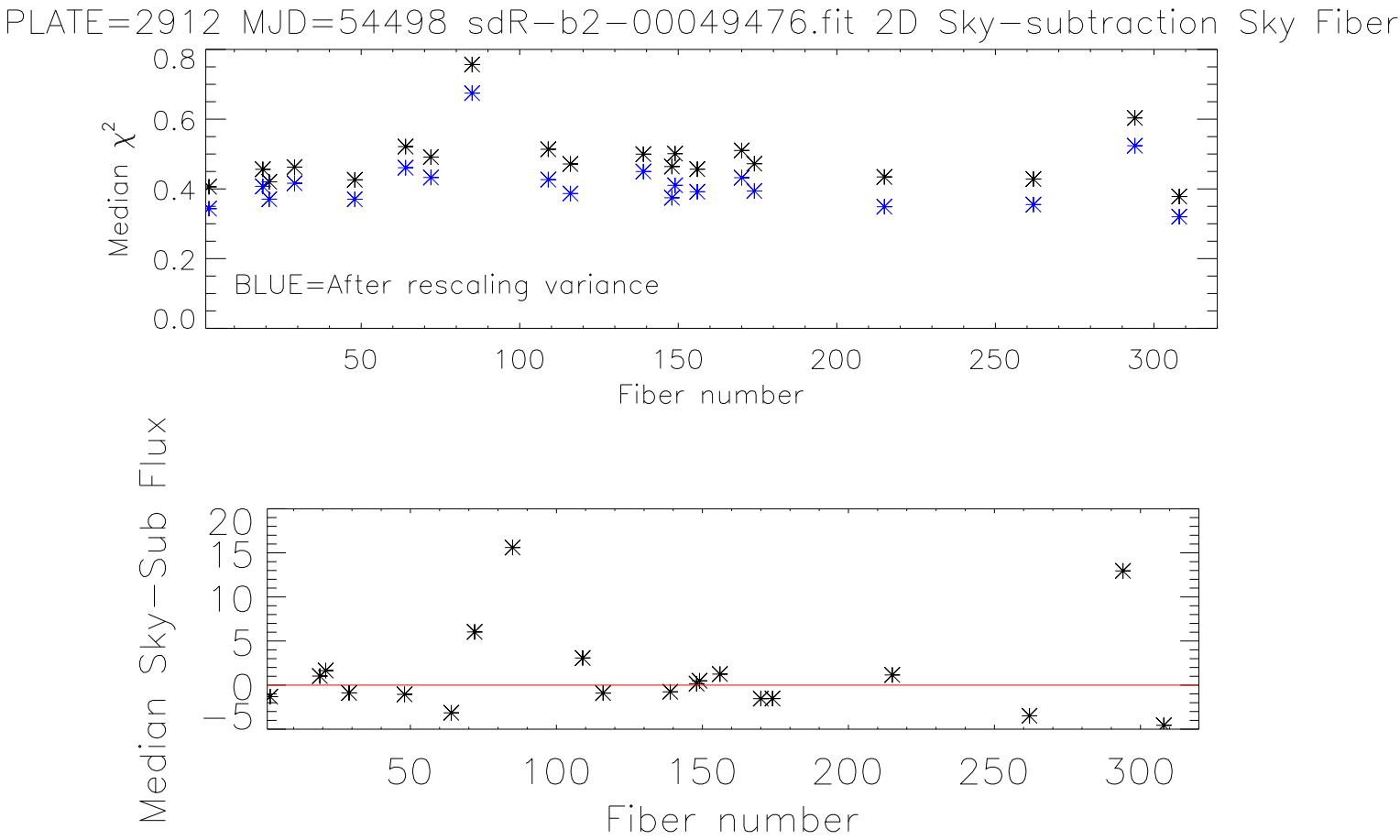
es= −0.0000

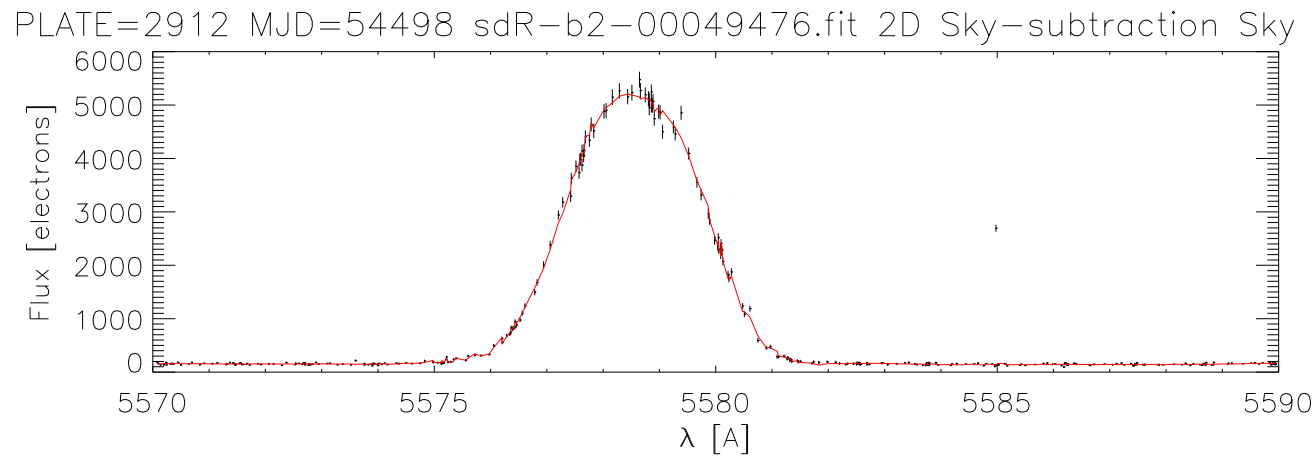

PLATE=2912 MJD=54498 sdR-b2-00049476.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

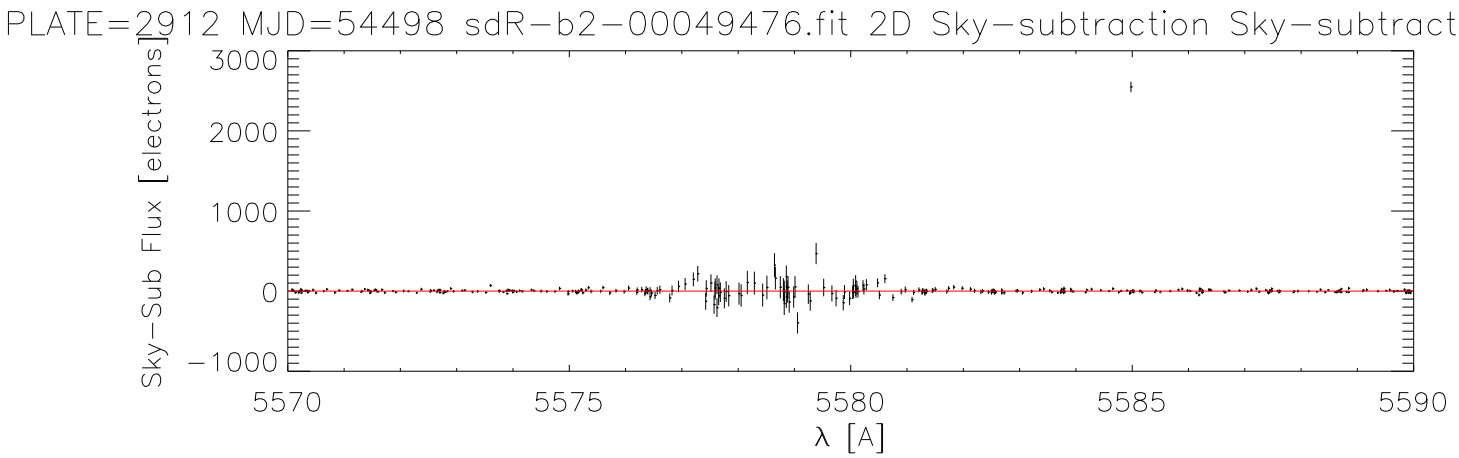

PLATE=2912 MJD=54498 sdR-b2-00049476.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

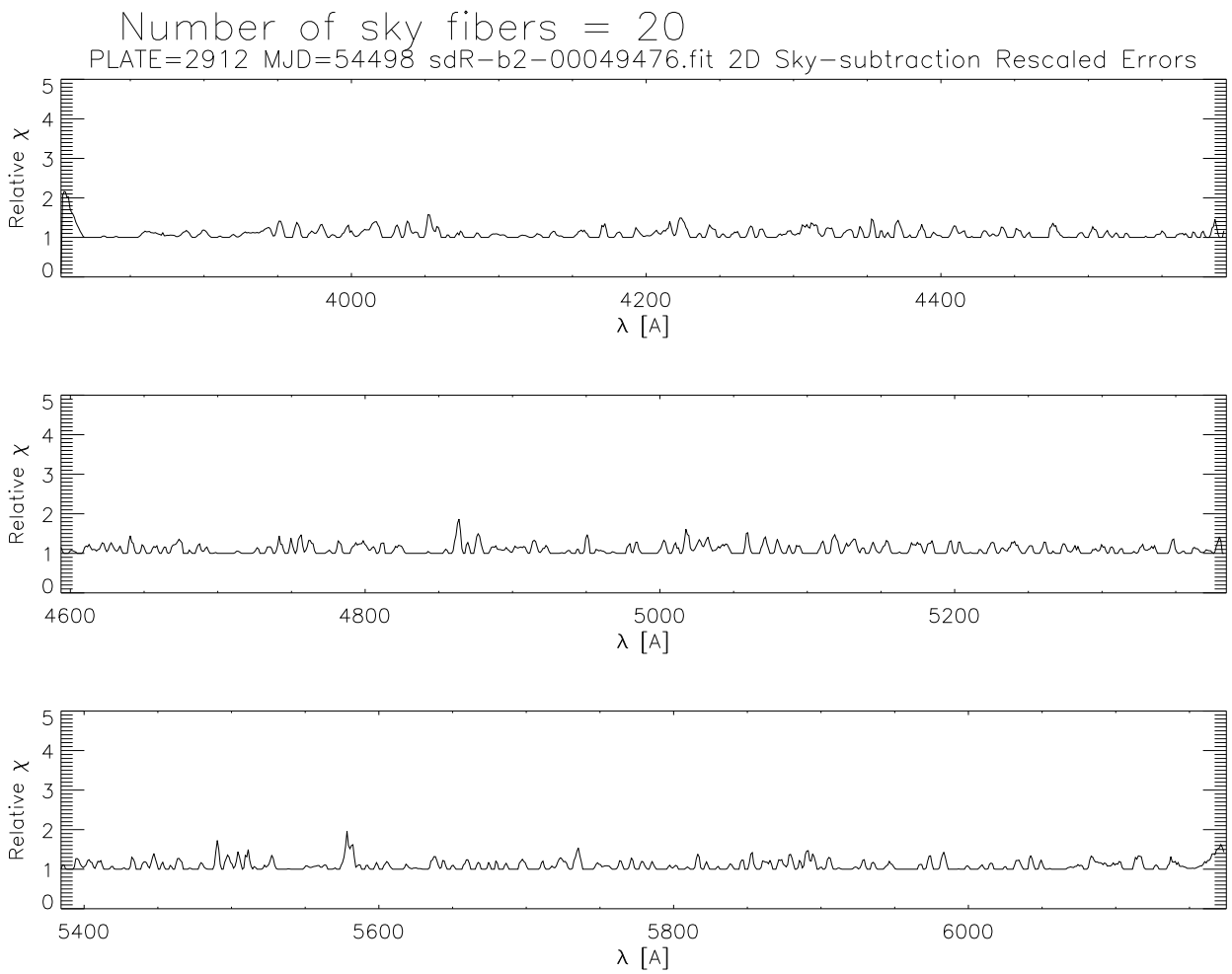

PLATE=2912 MJD=54498 sdR-b2-00049476.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

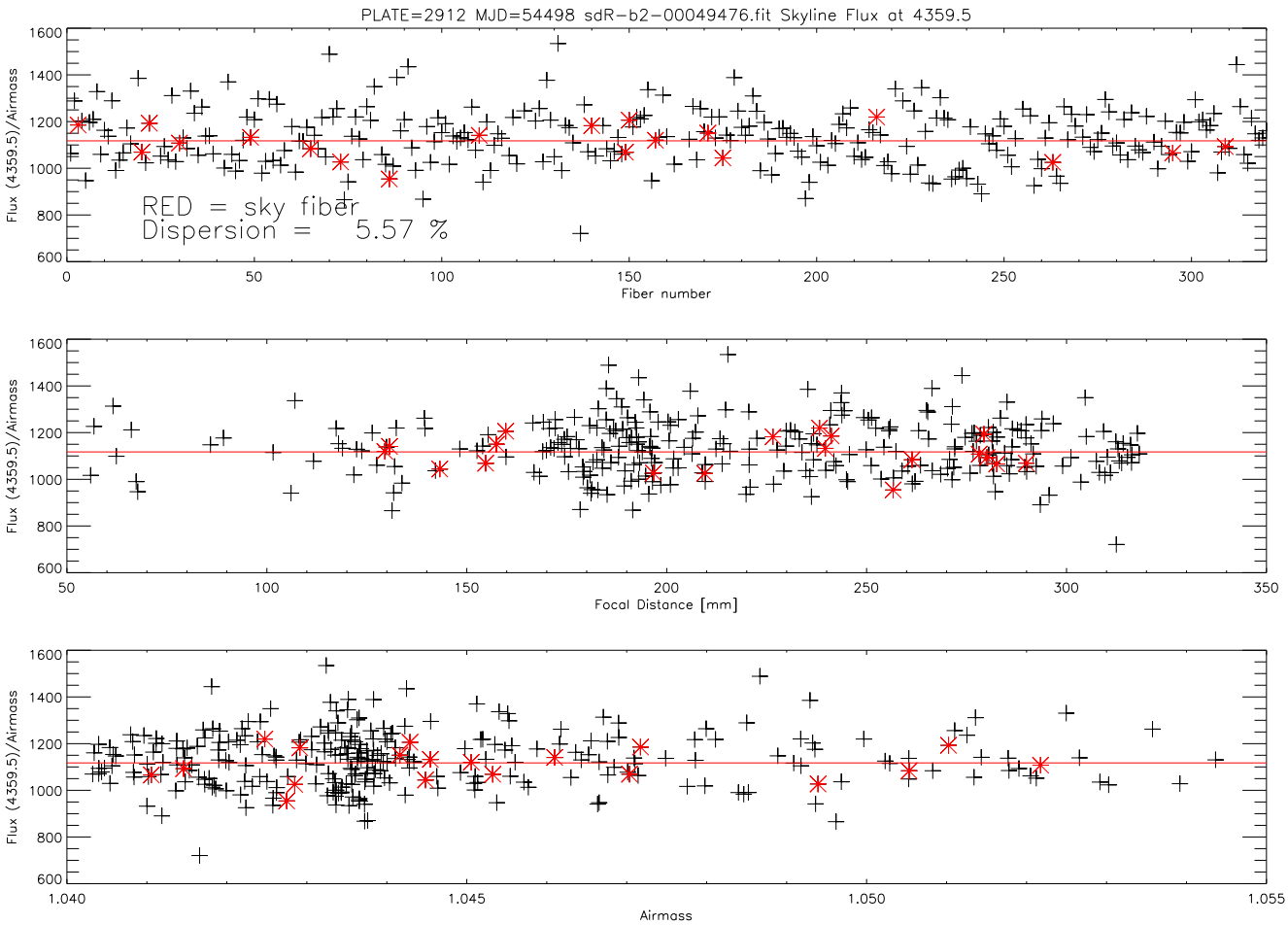

Number of sky fibers = 20
PLATE=2912 MJD=54498 sdR-b2-00049476.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

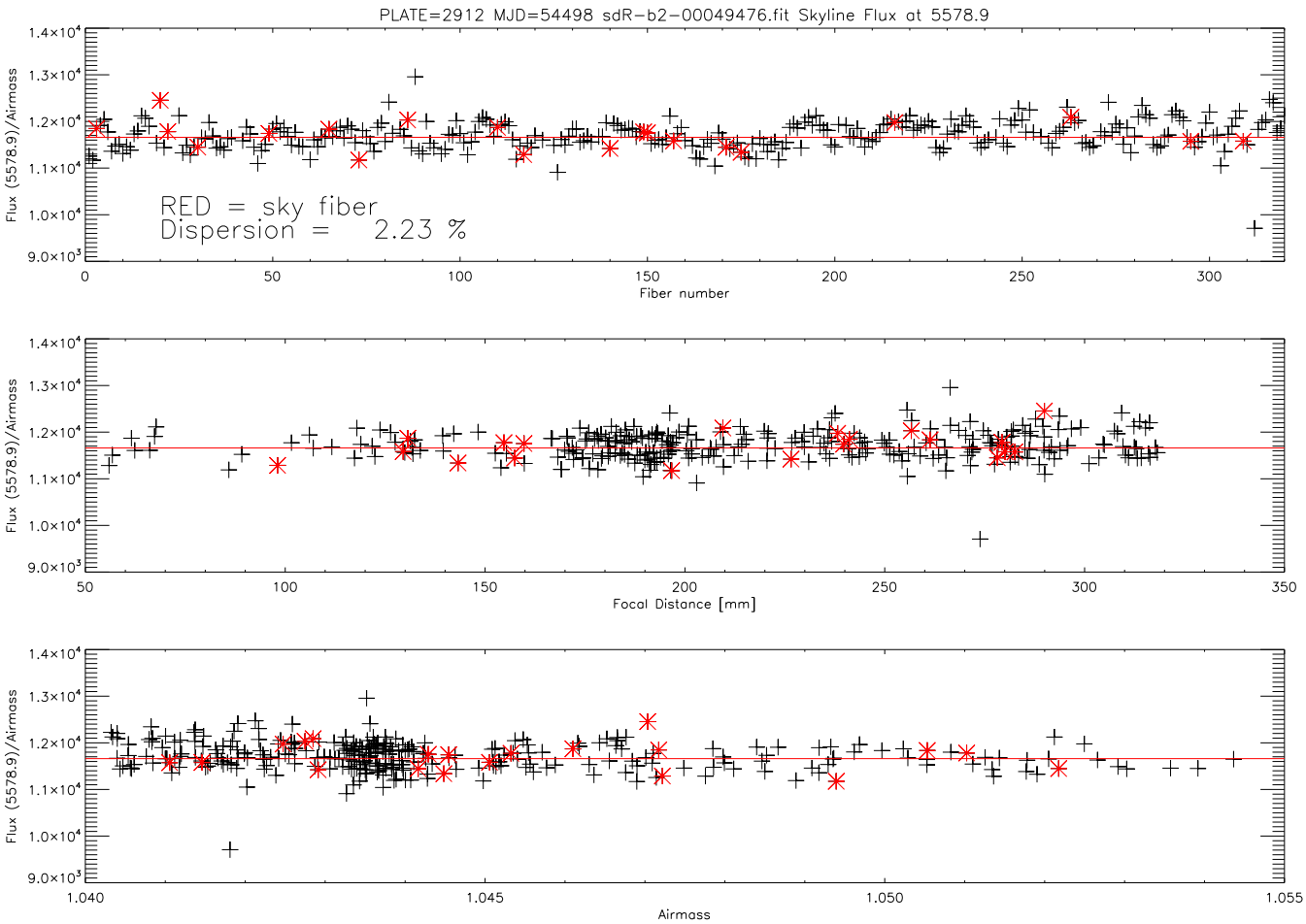

PLATE=2912 MJD=54498 sdR-b2-00049476.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-5
0
5
10
15
20
50
100
150
200
250
300
Fiber number

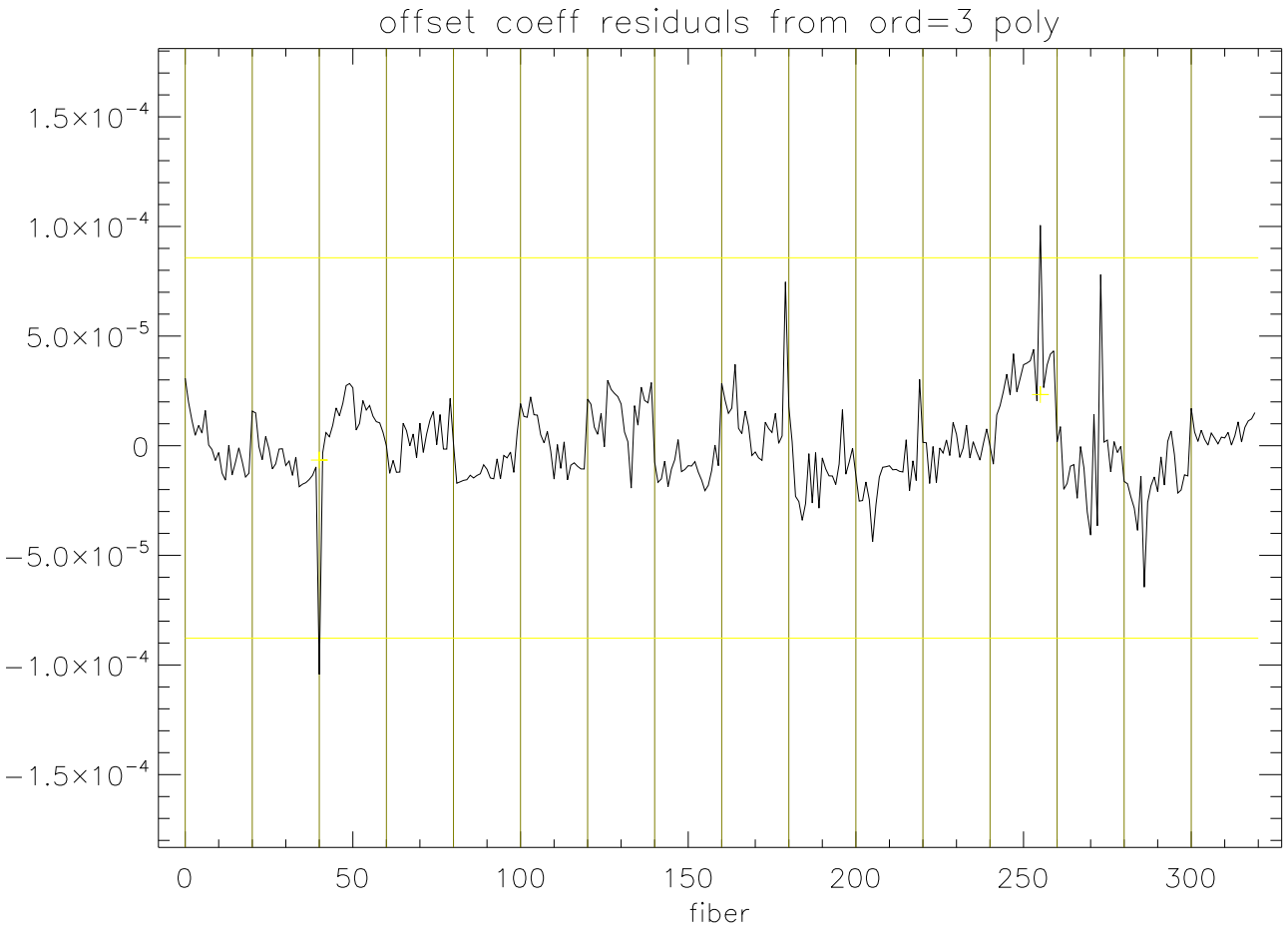

PLATE=2912 MJD=54498 sdR-b2-00049476.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

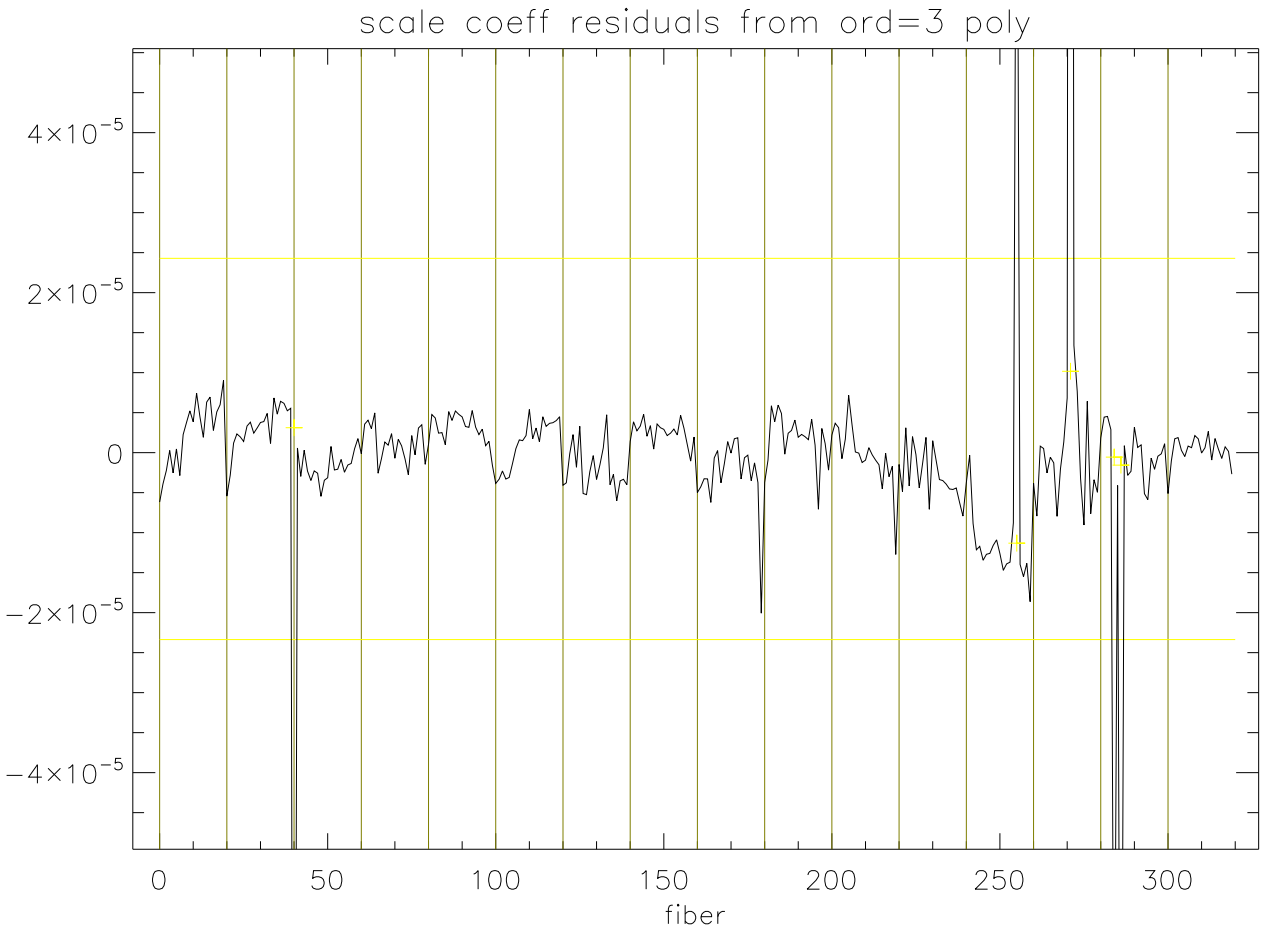

PLATE=2912 MJD=54498 sdR-b2-00049476.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

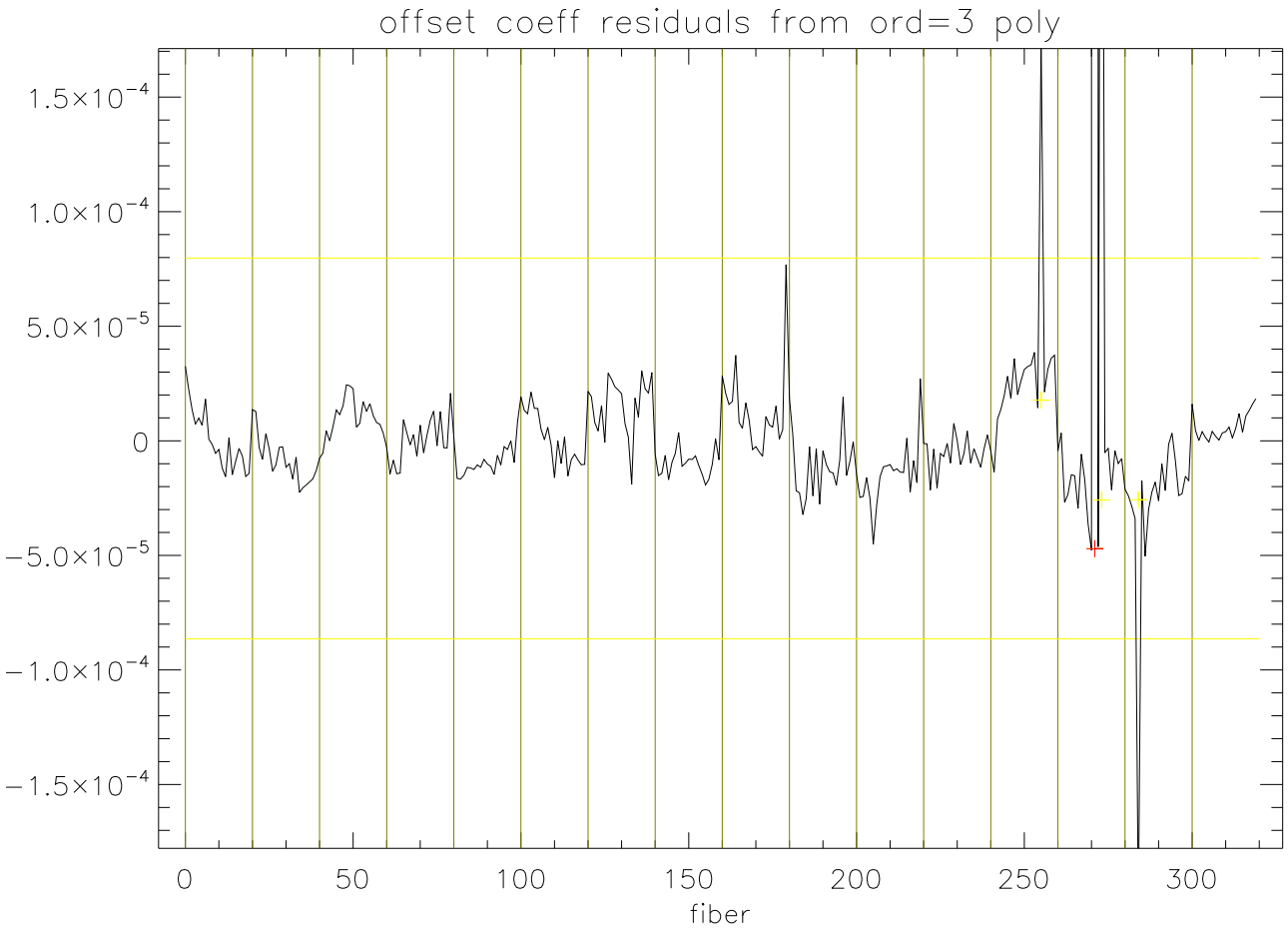

Number of sky fibers = 20
PLATE=2912 MJD=54498 sdR-b2-00049476.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

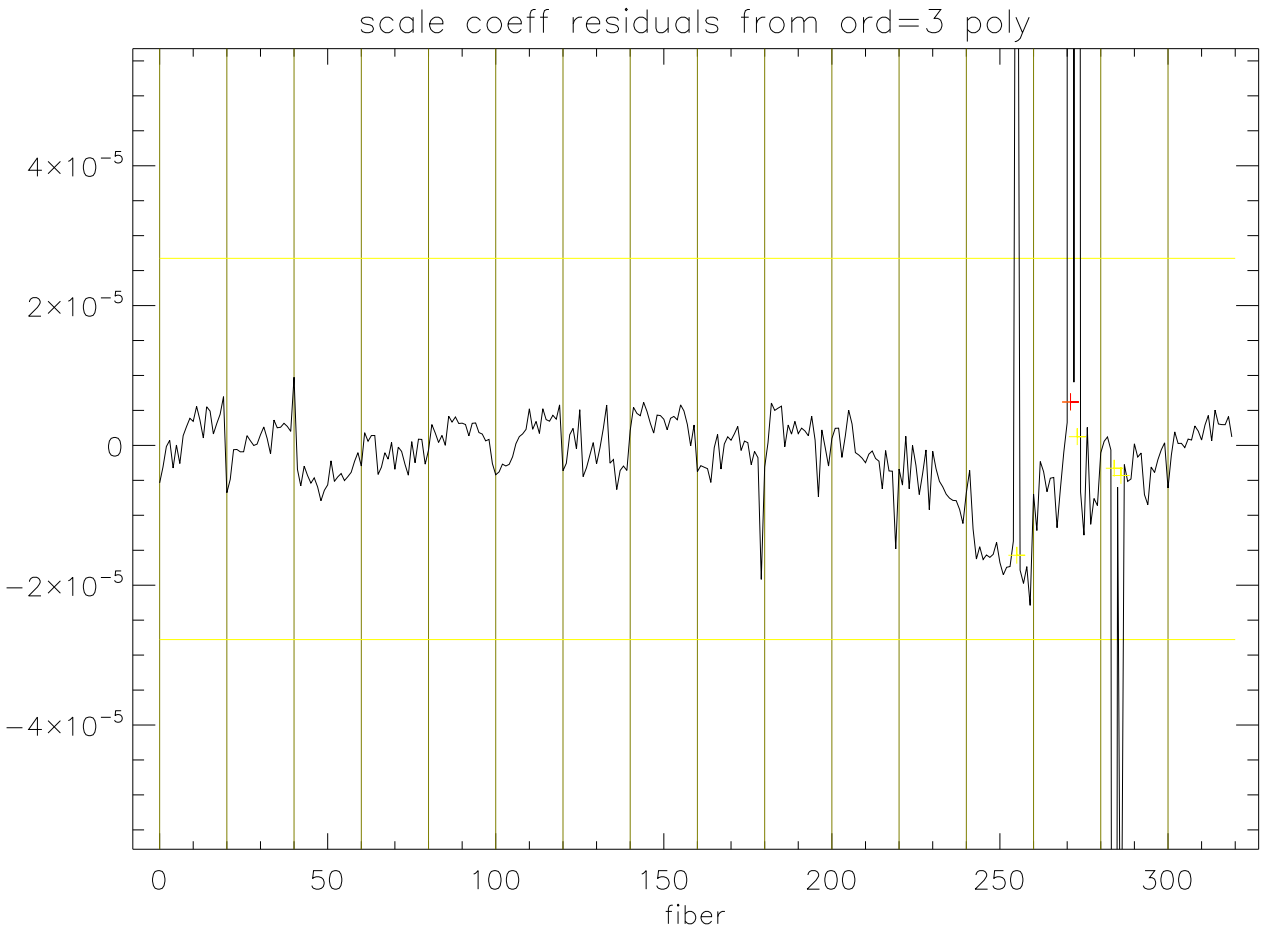

PLATE=2912 MJD=54498 sdR-b2-00049476.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 5.57 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

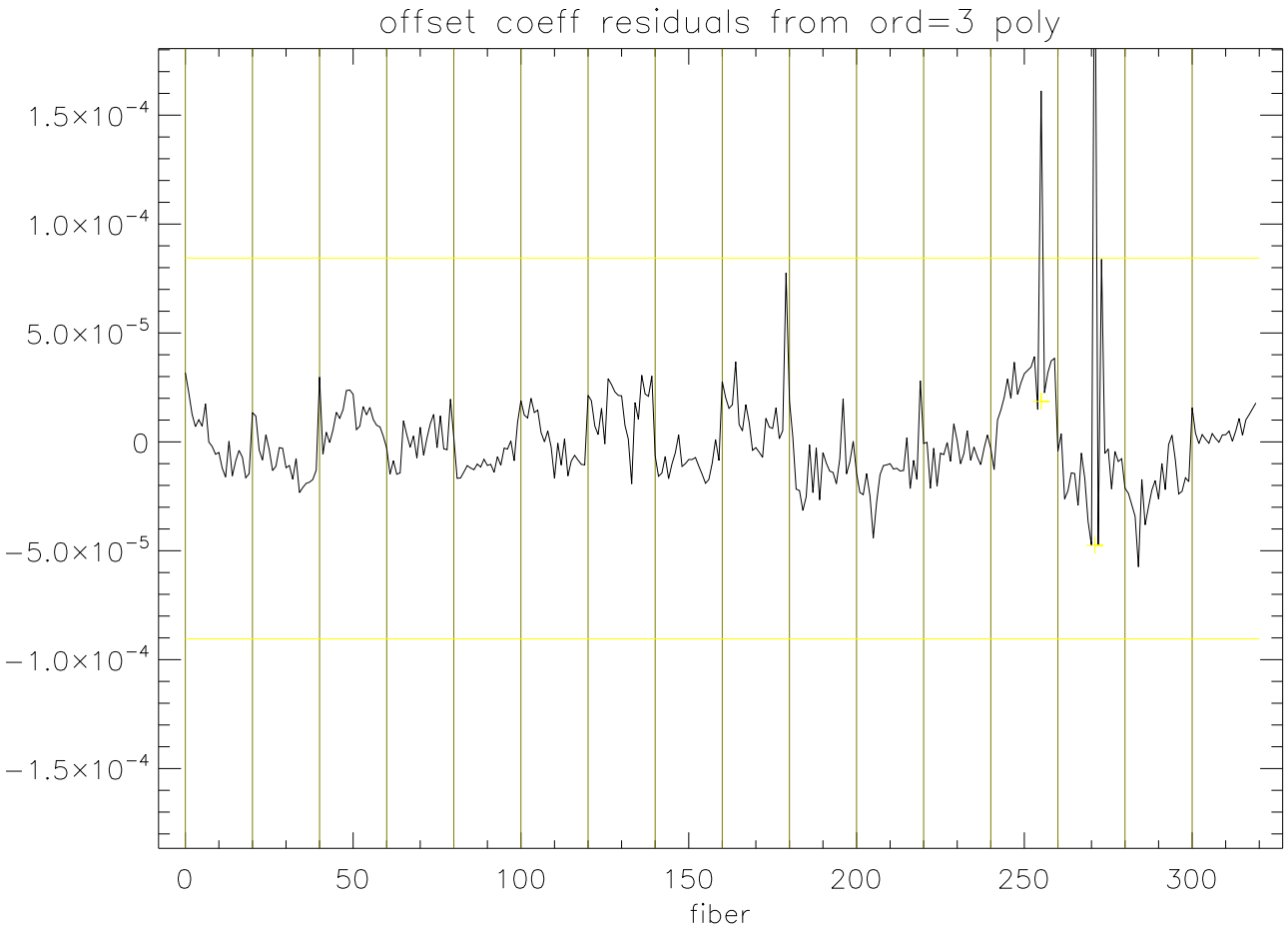

PLATE=2912 MJD=54498 sdR-b2-00049476.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.23 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

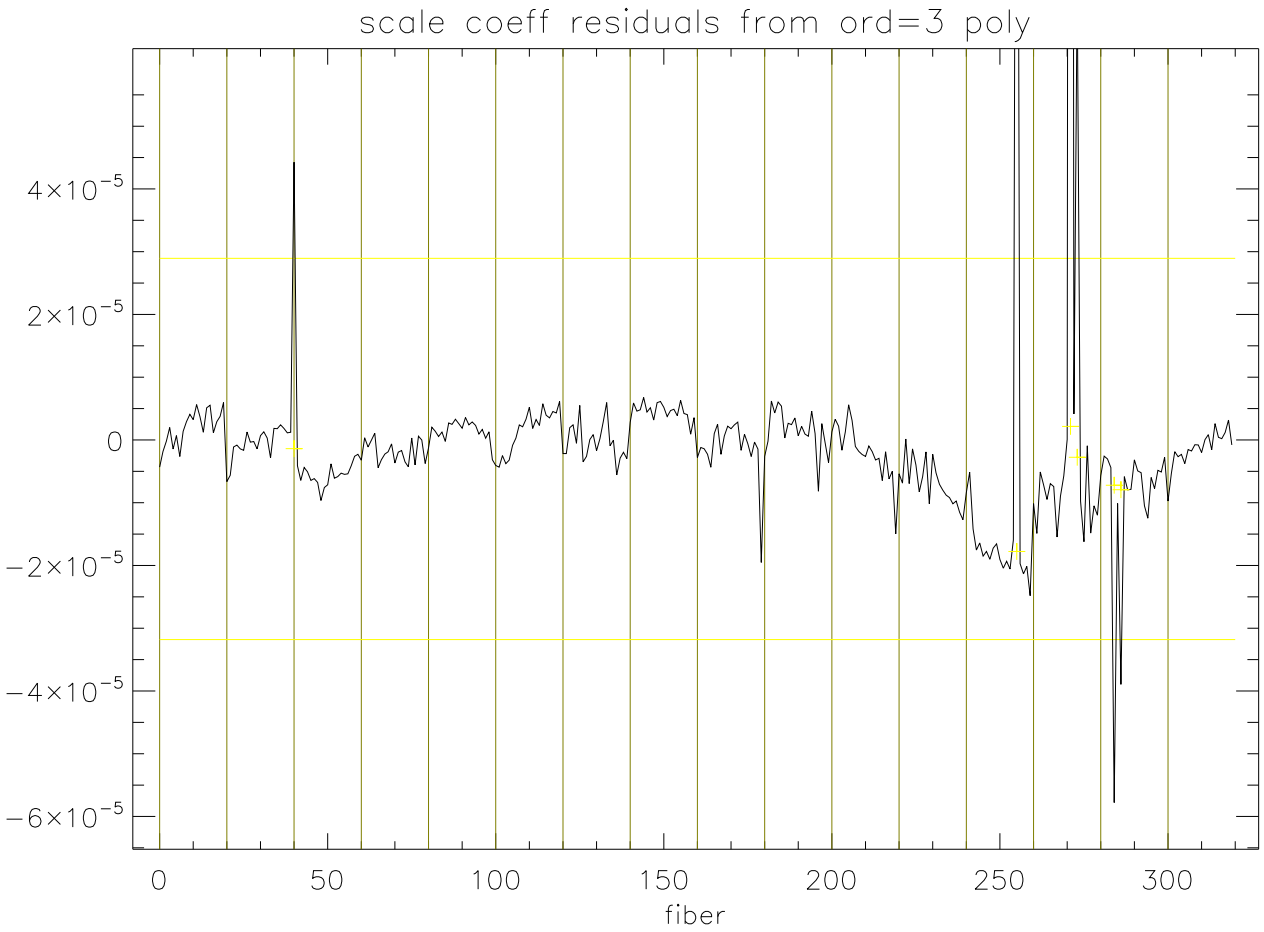

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

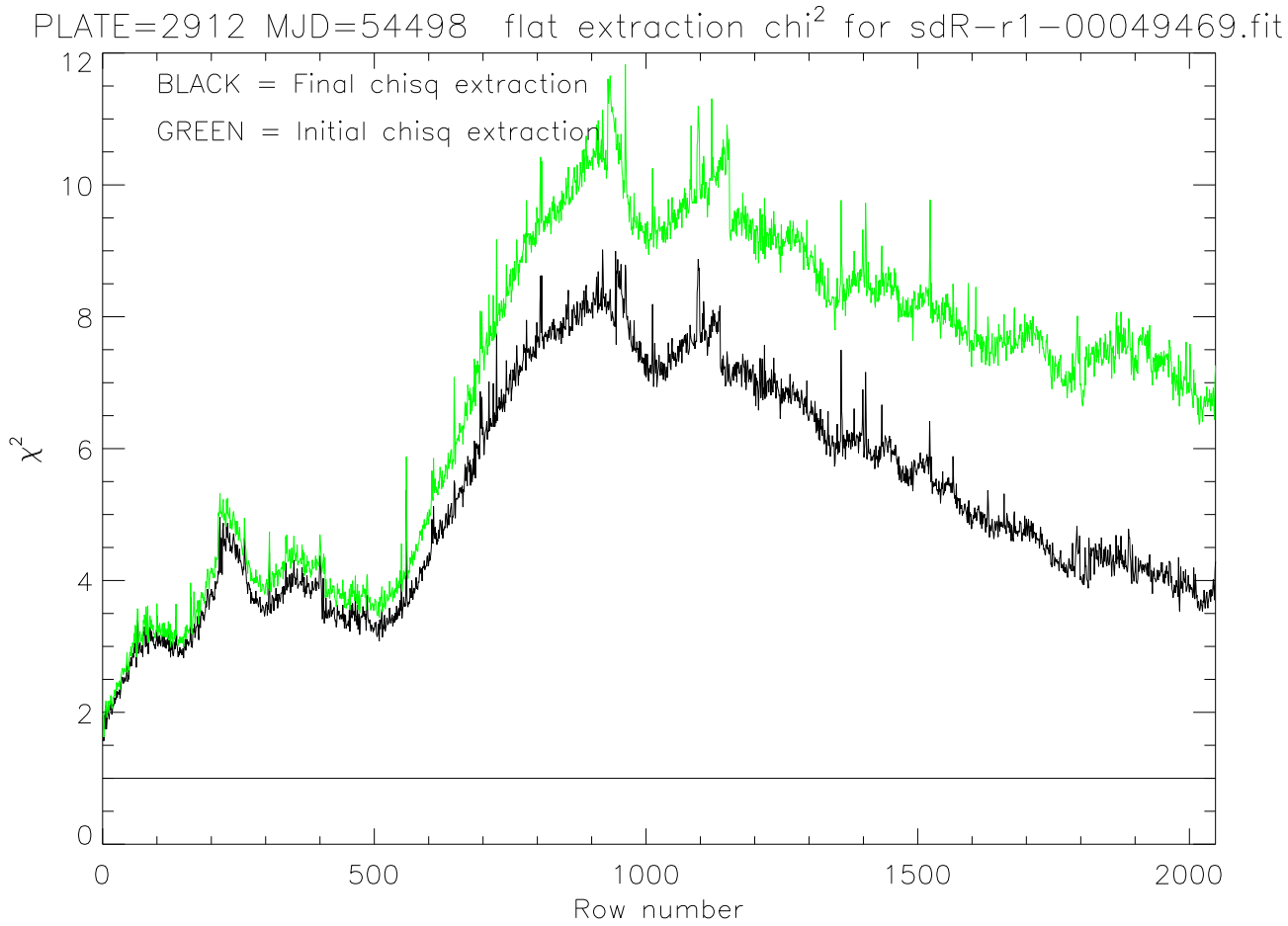

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

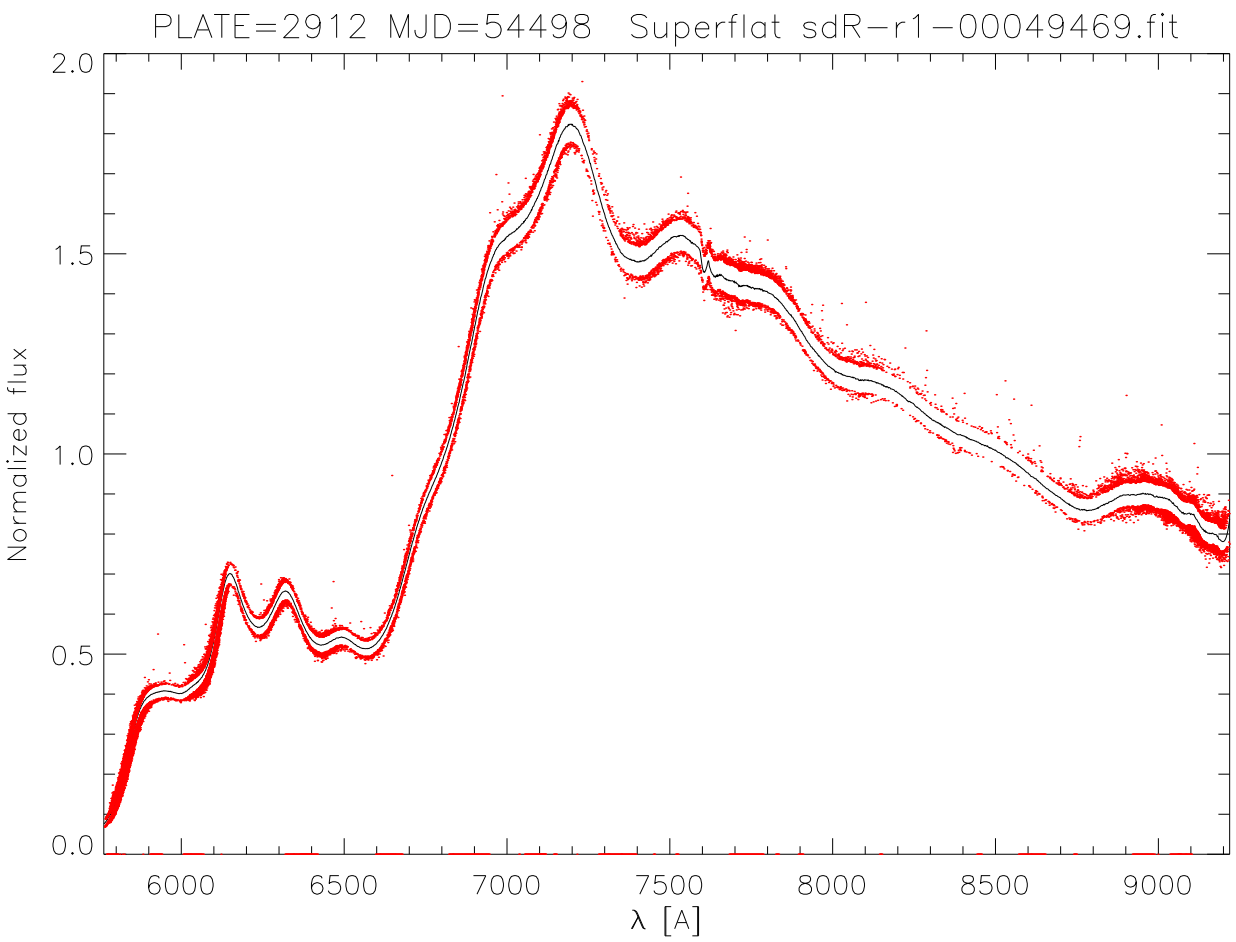

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

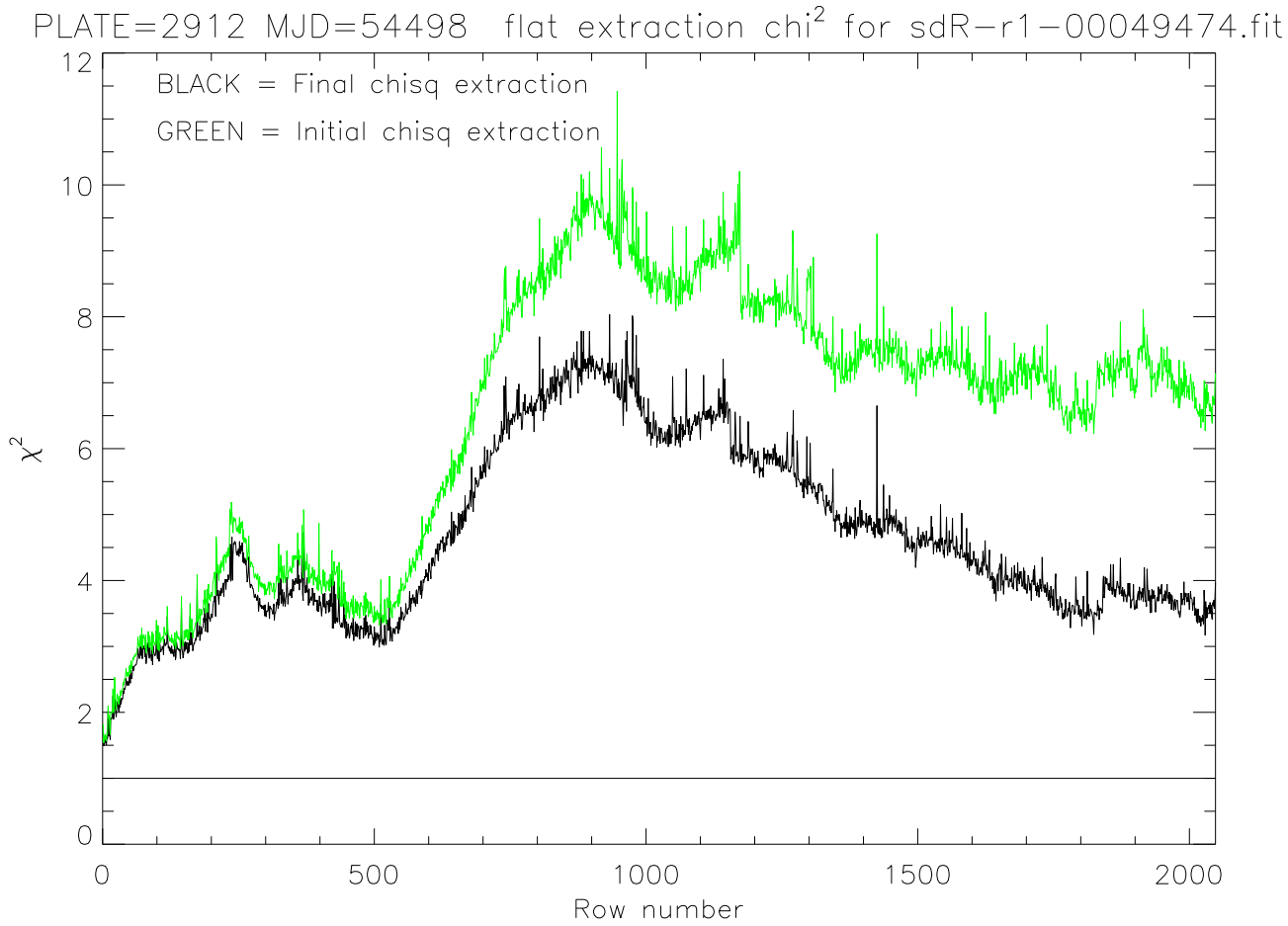

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

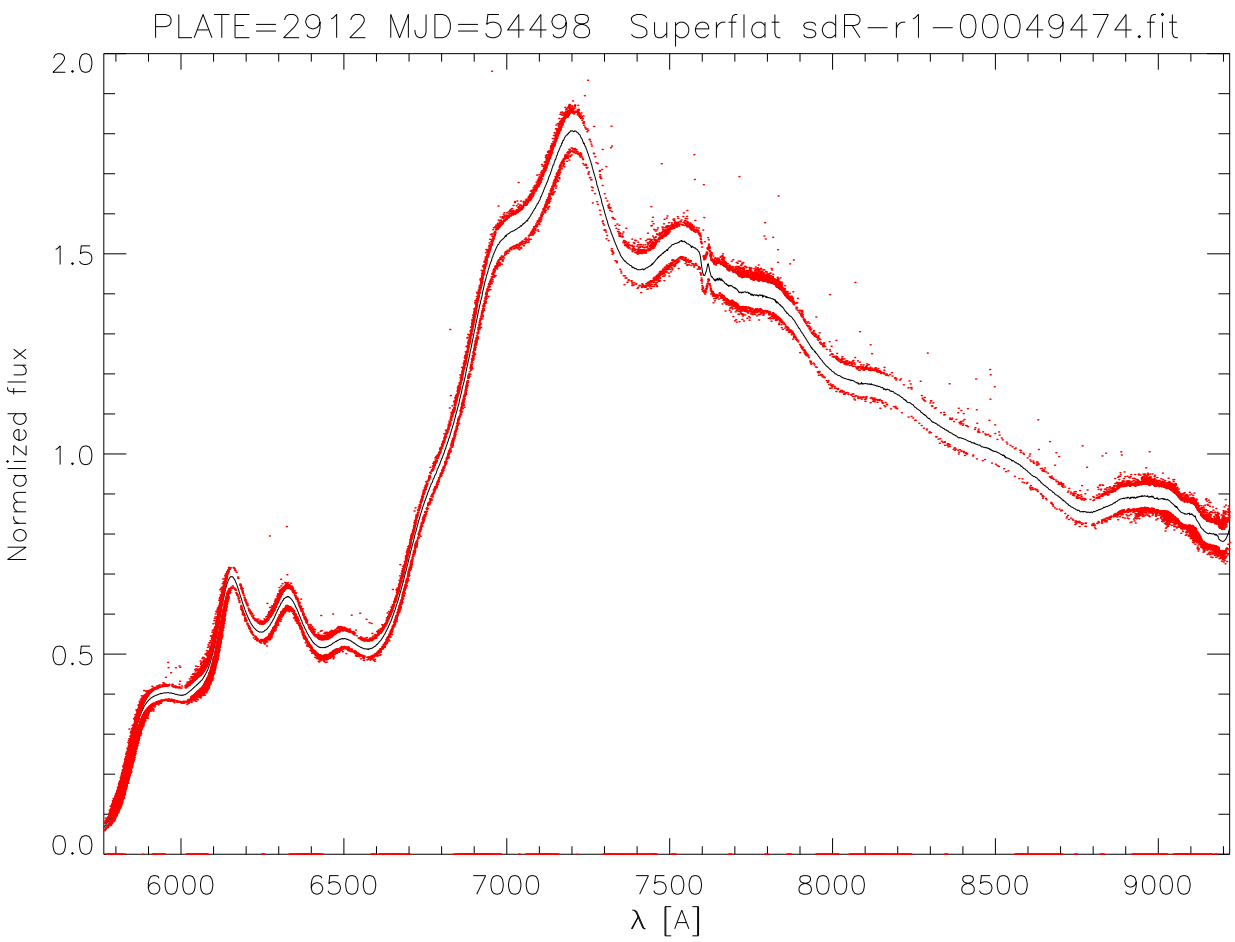

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

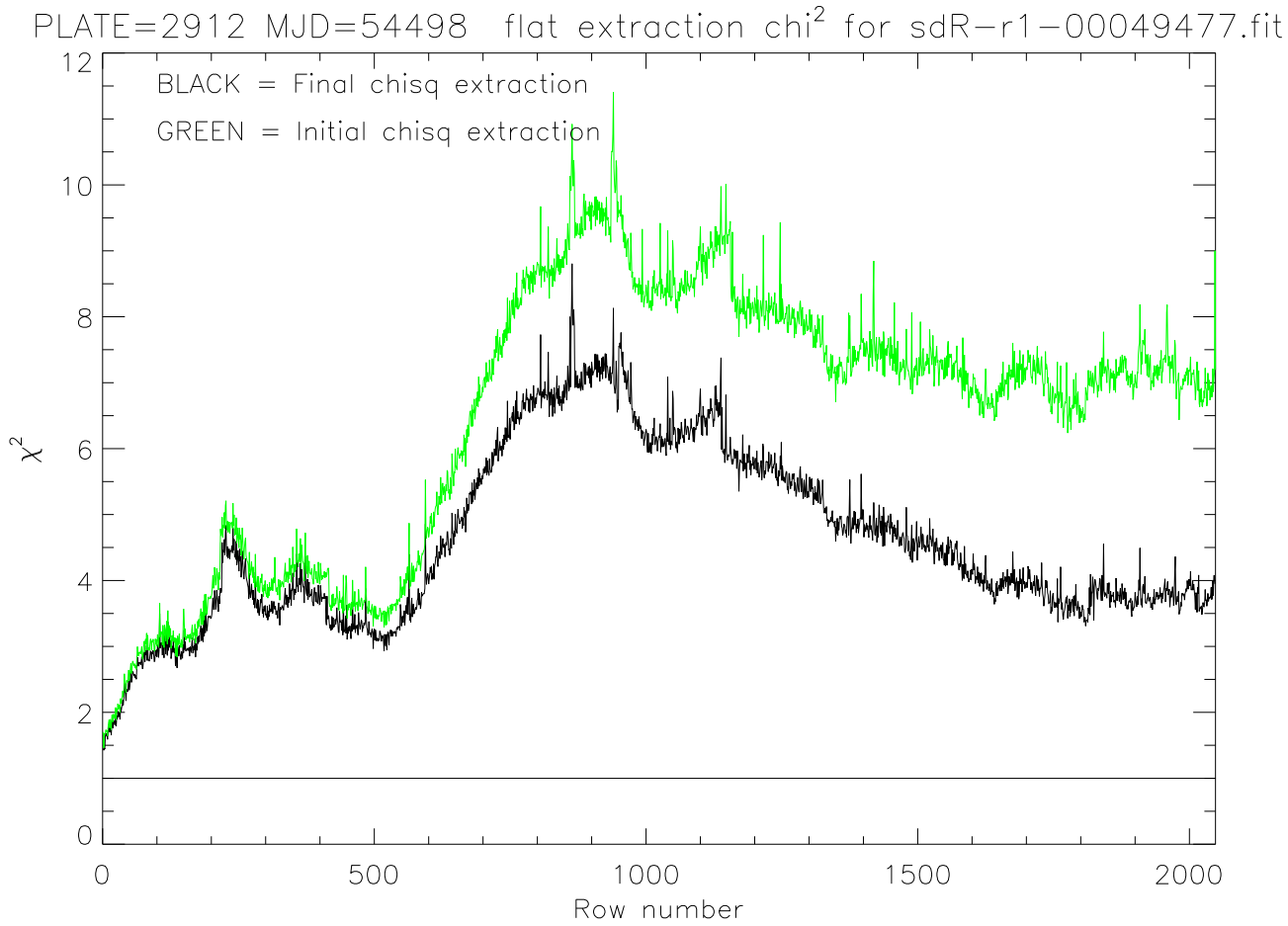

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
−6×10⁻⁵
0
50
100
150
200
250
300
fiber

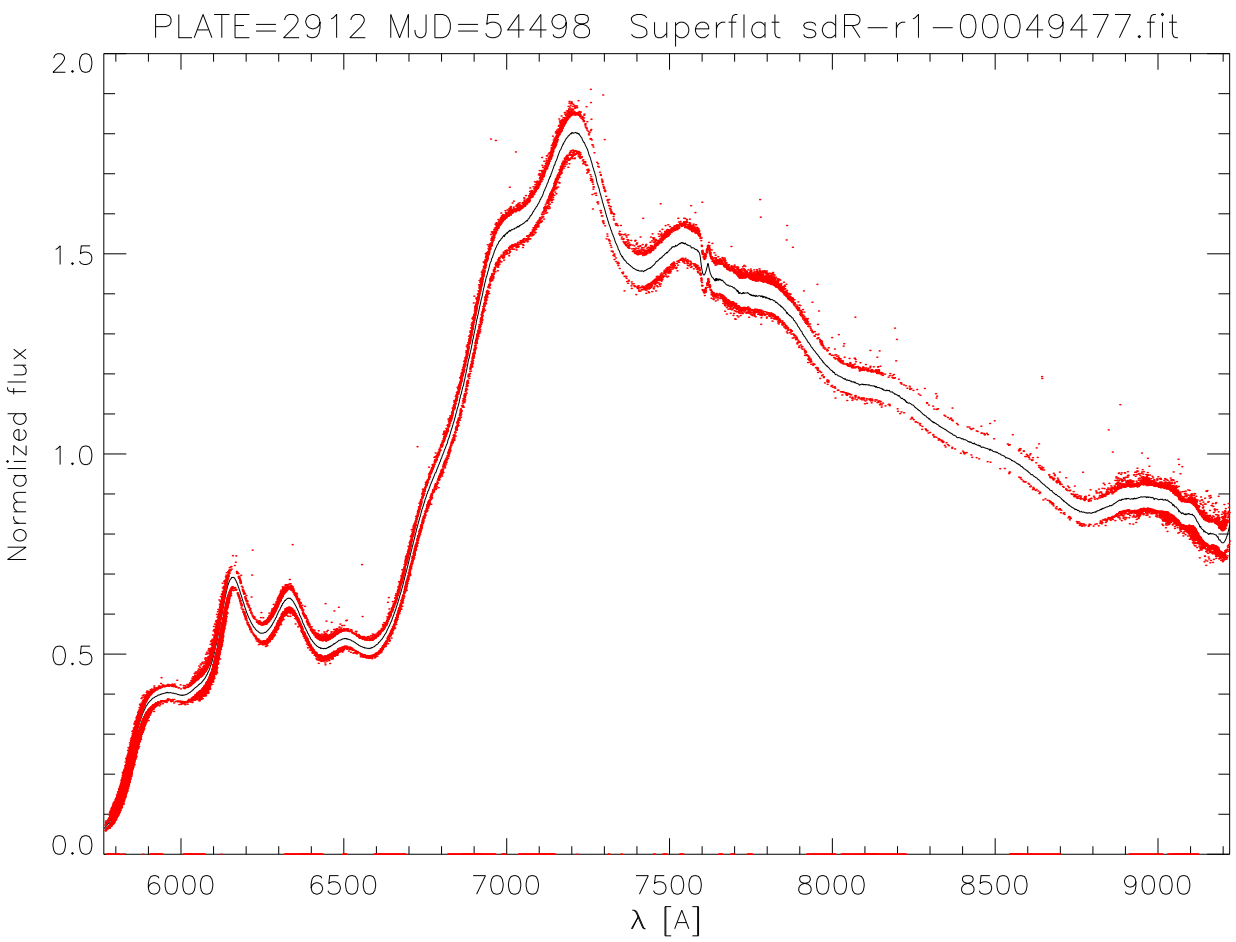

PLATE=2912 MJD=54498 flat extraction chi^2 for sdR−r1−00049469.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

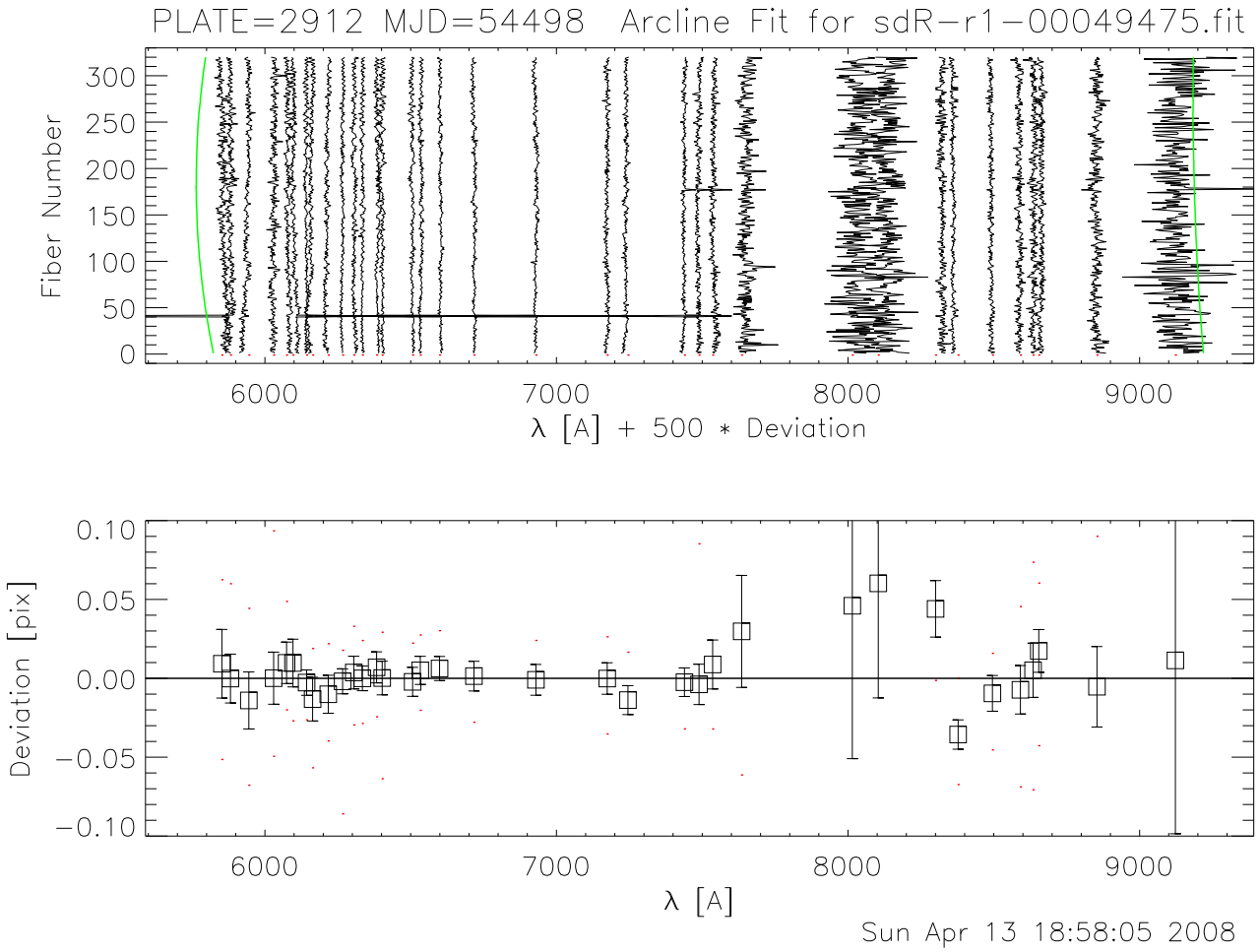

PLATE=2912 MJD=54498 Superflat sdR-r1-00049469.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

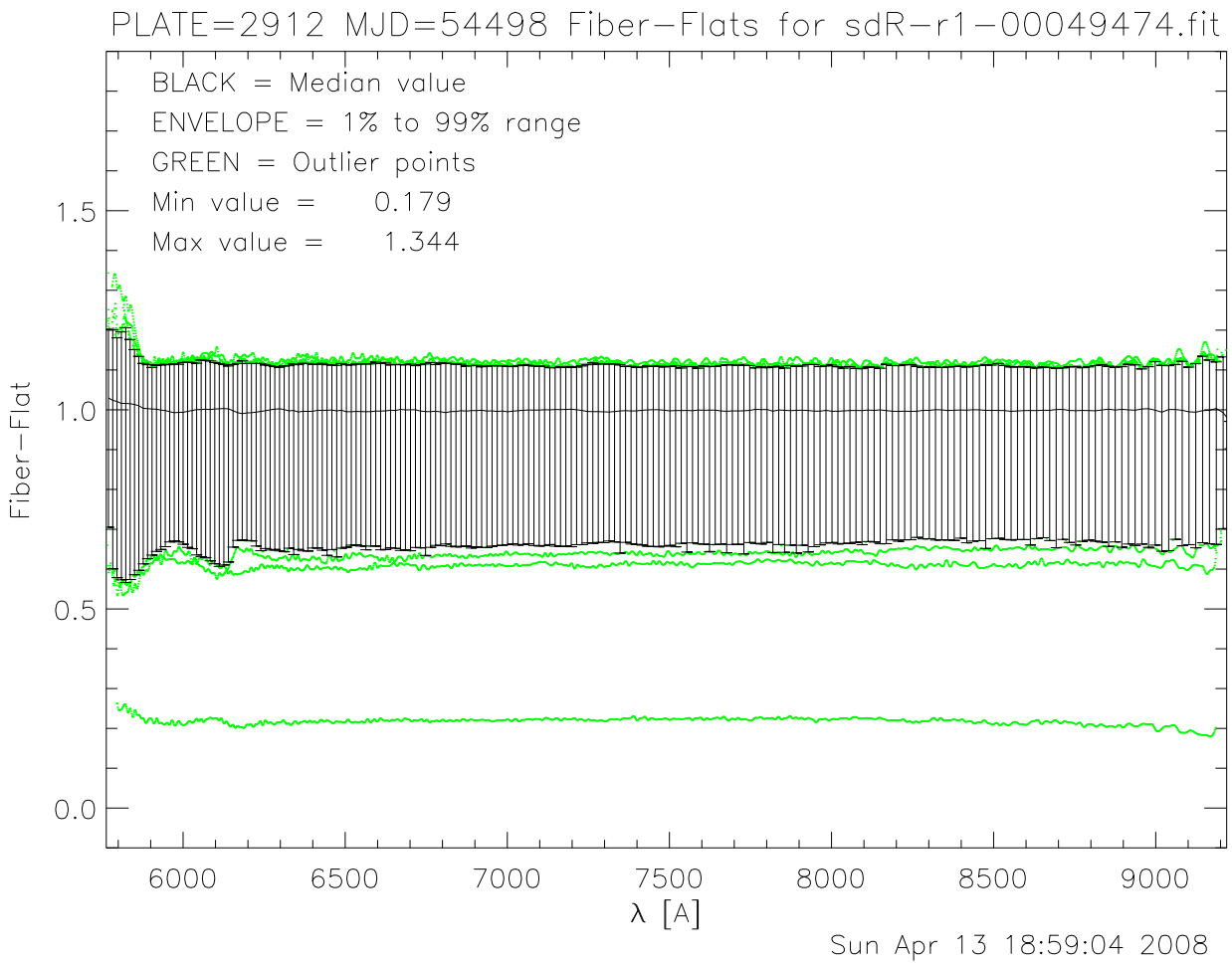

PLATE=2912 MJD=54498 flat extraction chi^2 for sdR−r1−00049474.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

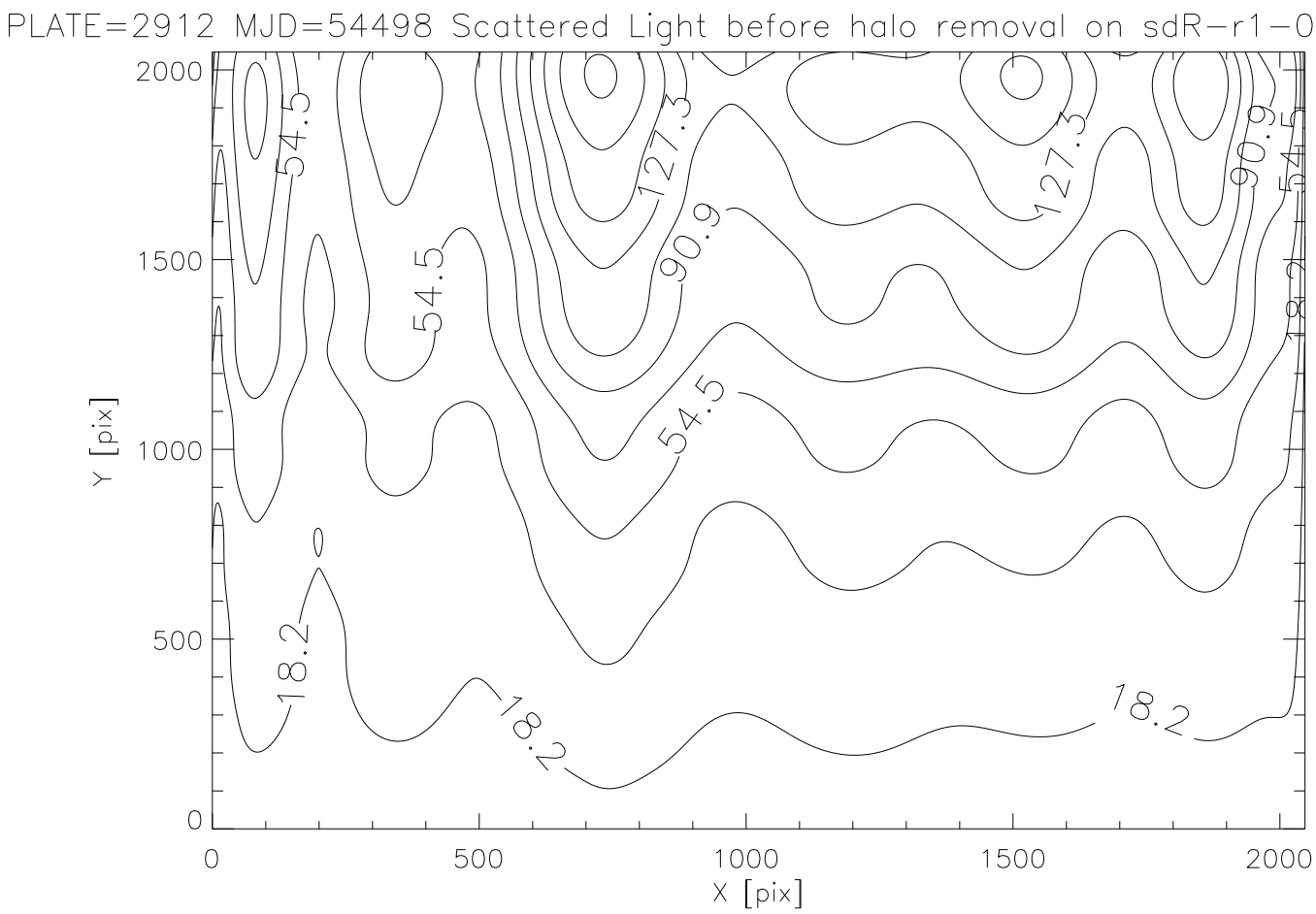

PLATE=2912 MJD=54498 Superflat sdR-r1-00049474.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

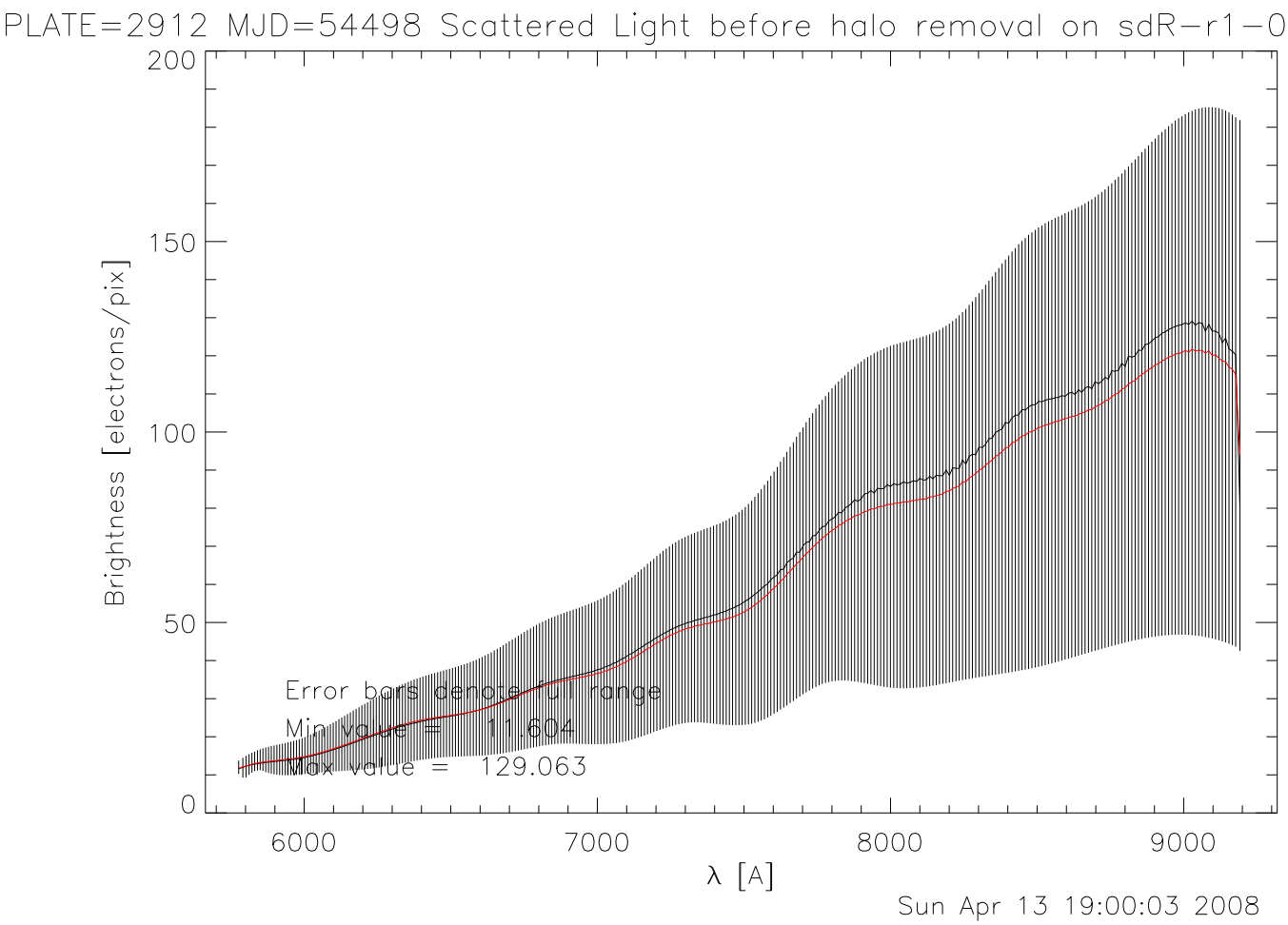

PLATE=2912 MJD=54498 flat extraction chi^2 for sdR−r1−00049477.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

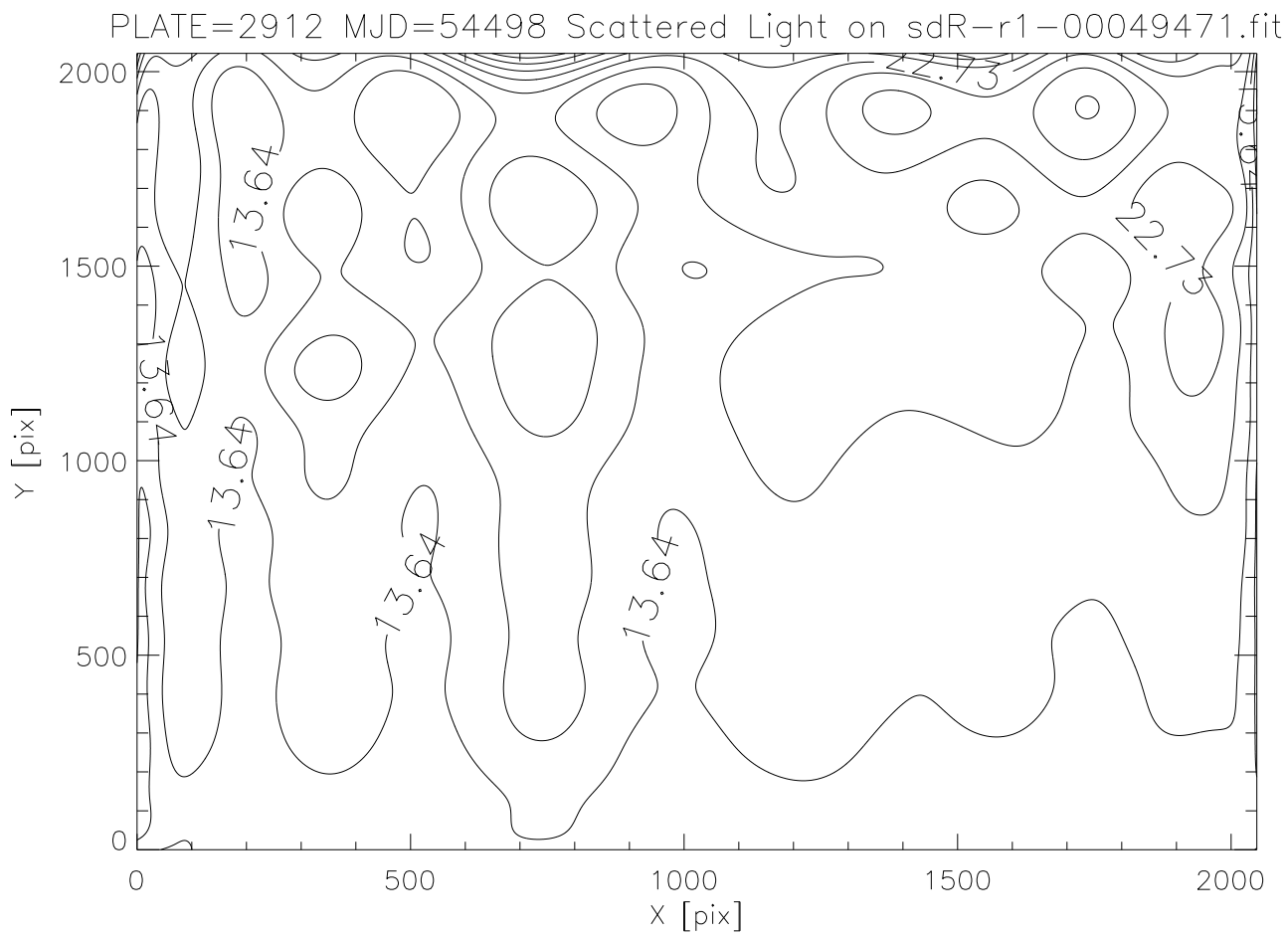

PLATE=2912 MJD=54498 Superflat sdR-r1-00049477.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

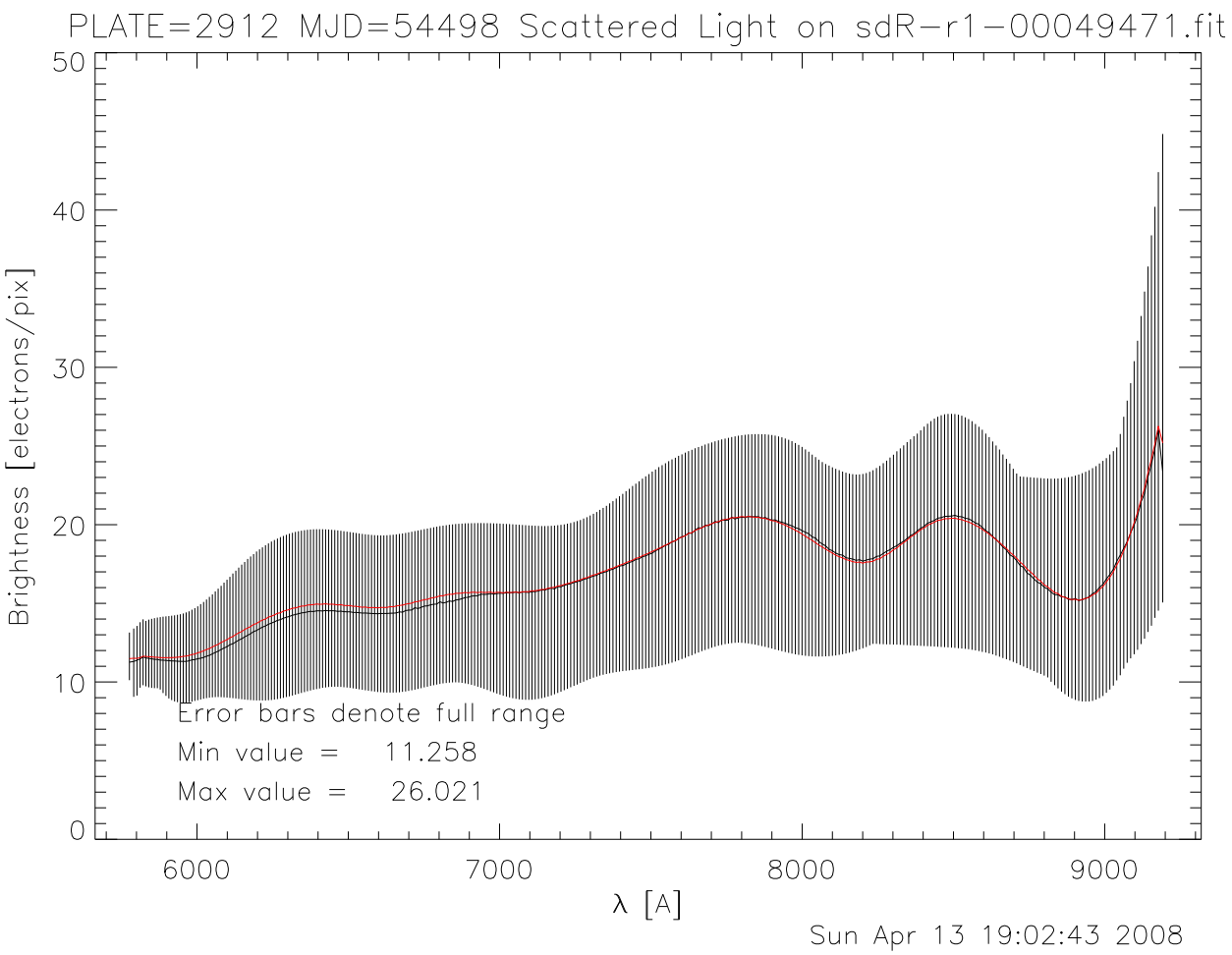

PLATE=2912 MJD=54498 Arcline Fit for sdR-r1-00049475.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sun Apr 13 18:58:05 2008

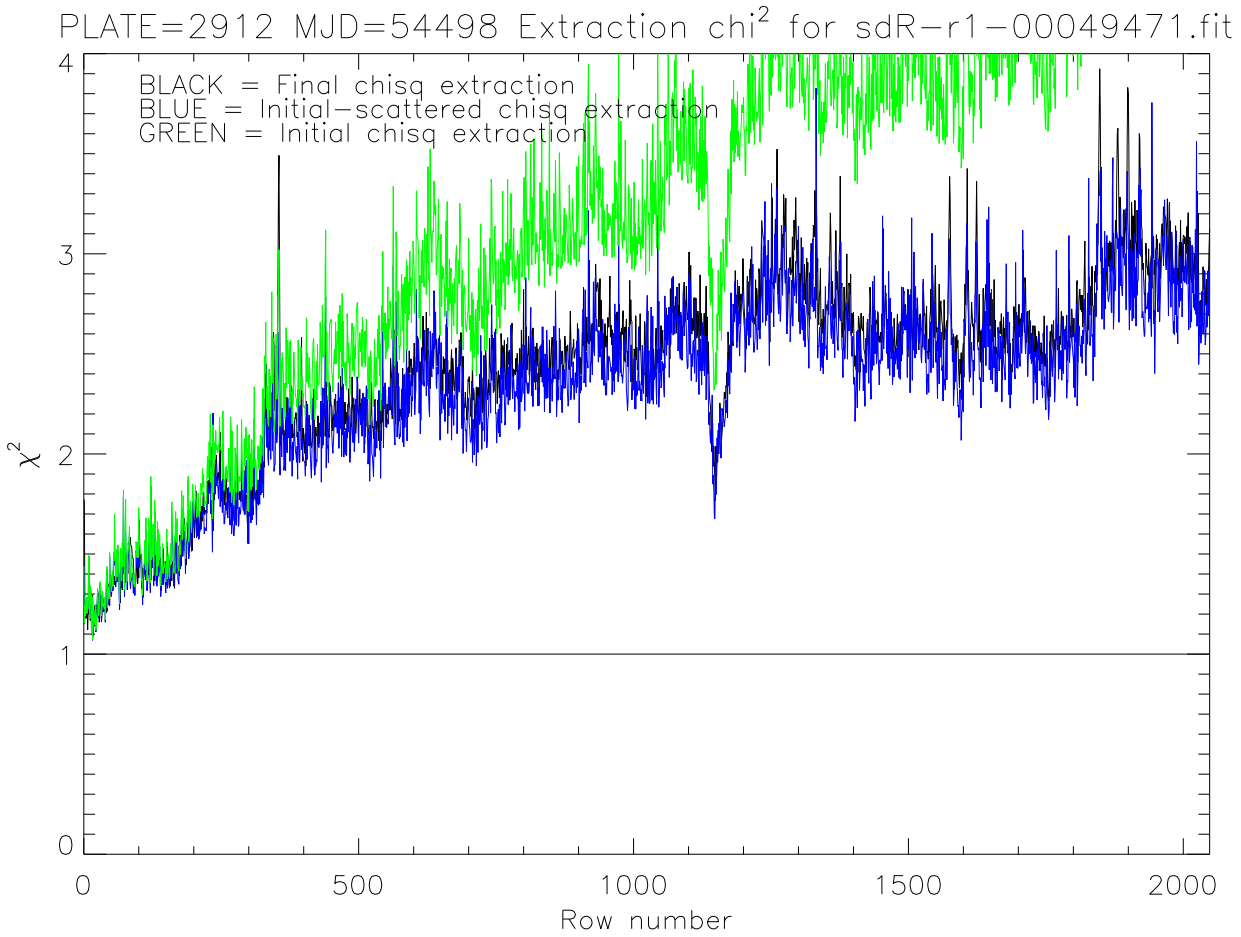

PLATE=2912 MJD=54498 Fiber-Flats for sdR-r1-00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.179
Max value = 1.344
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Apr 13 18:59:04 2008

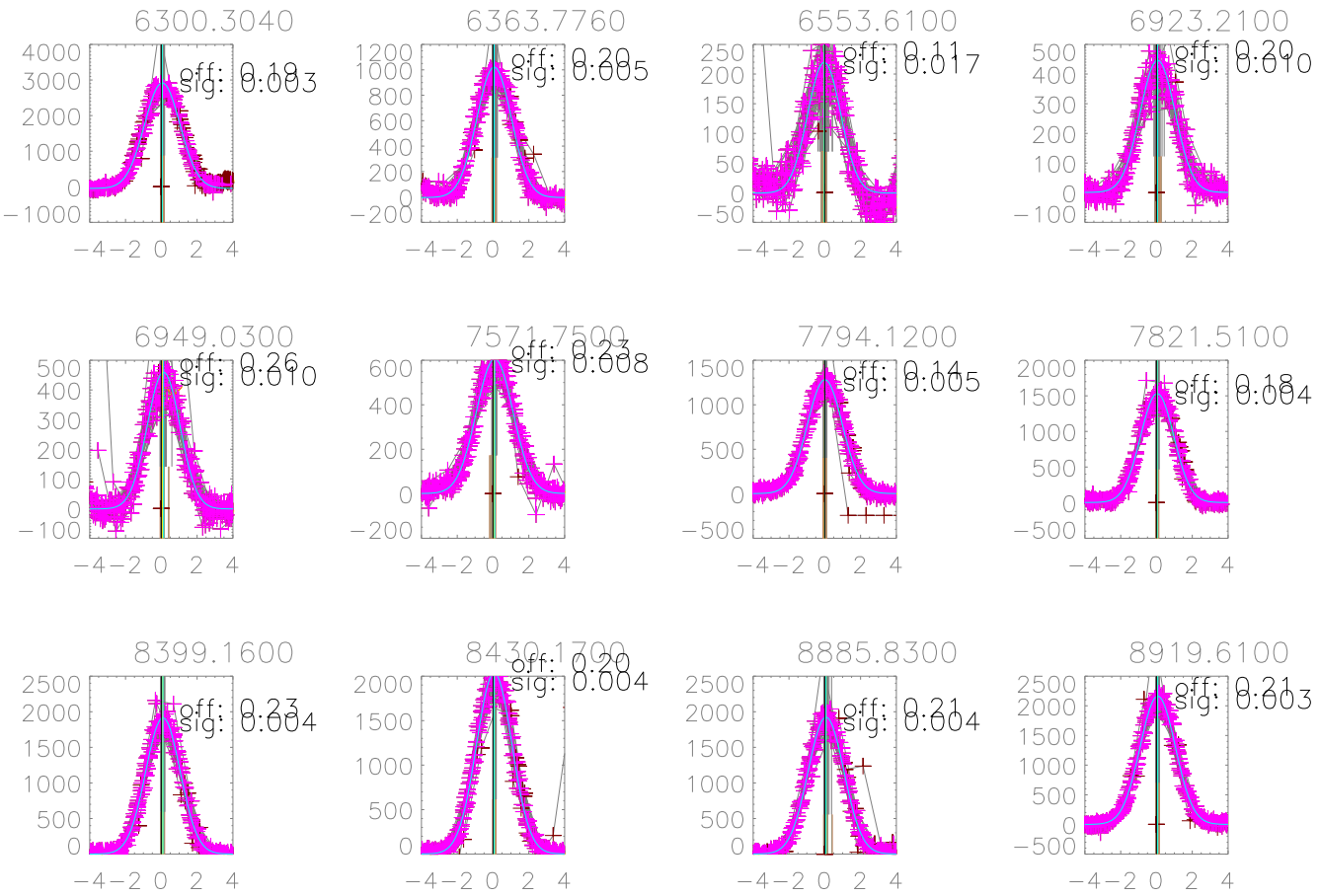

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r1-00049471.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
54.5
127.3
90.9
54.5
18.2
0
18.2
18.2
54.5
127.3
90.9
54.5
18.2

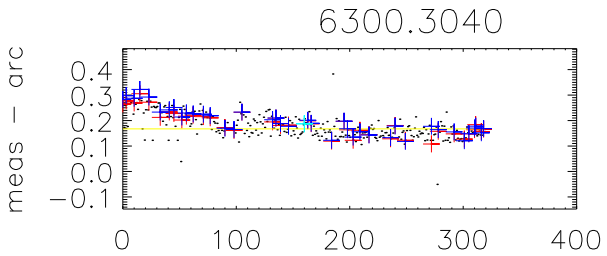

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r1-00049471.fi
200
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 11.604
Max value = 129.063
6000
7000
8000
9000
λ [A]
Sun Apr 13 19:00:03 2008

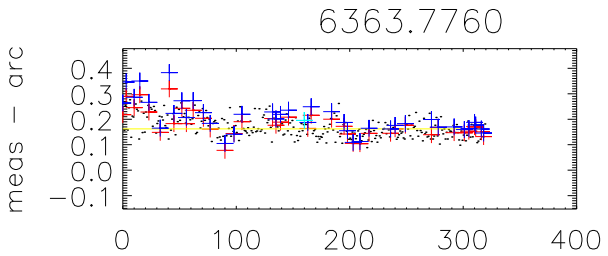

PLATE=2912 MJD=54498 Scattered Light on sdR-r1-00049471.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
13.64
13.64
13.64
13.64
0
27.3
27.3
0.0

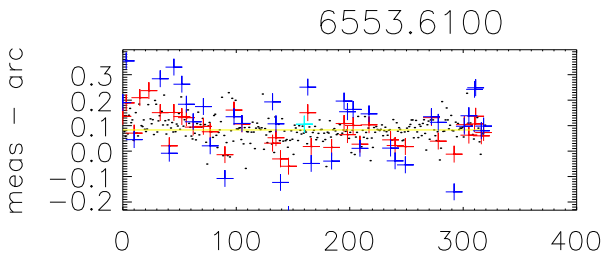

PLATE=2912 MJD=54498 Scattered Light on sdR-r1-00049471.fit
Brightness [electrons/pix]
50
40
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 11.258
Max value = 26.021
Sun Apr 13 19:02:43 2008

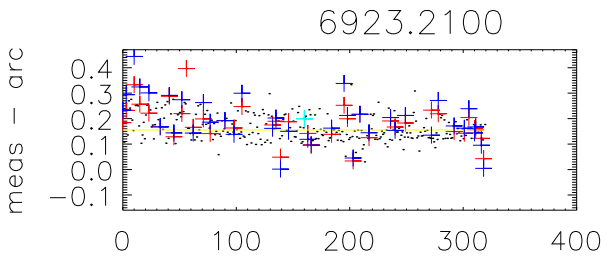

PLATE=2912 MJD=54498 Extraction chi^2 for sdR-r1-00049471.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

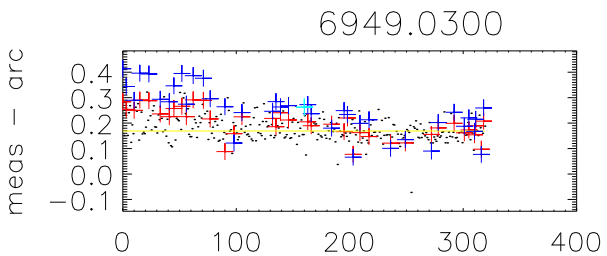

6300.3040
off: 0.18
sig: 0.003
6363.7760
off: 0.20
sig: 0.005
6553.6100
off: 0.11
sig: 0.017
6923.2100
off: 0.20
sig: 0.010
6949.0300
off: 0.26
sig: 0.010
7571.7500
off: 0.23
sig: 0.008
7794.1200
off: 0.14
sig: 0.005
7821.5100
off: 0.18
sig: 0.004
8399.1600
off: 0.23
sig: 0.004
8430.1700
off: 0.20
sig: 0.004
8885.8300
off: 0.21
sig: 0.004
8919.6100
off: 0.21
sig: 0.003

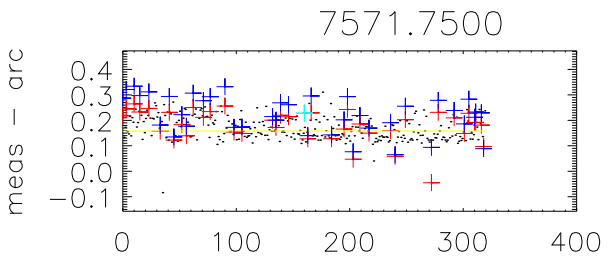

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

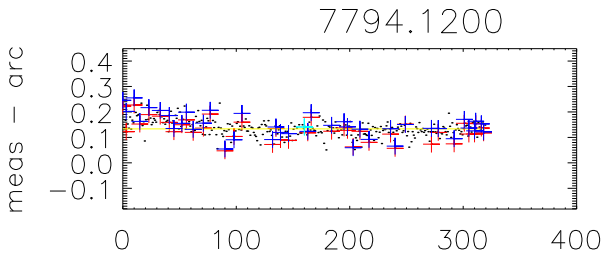

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

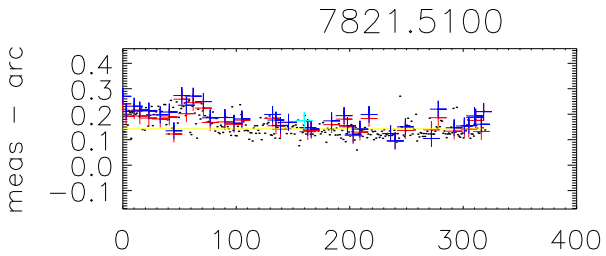

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

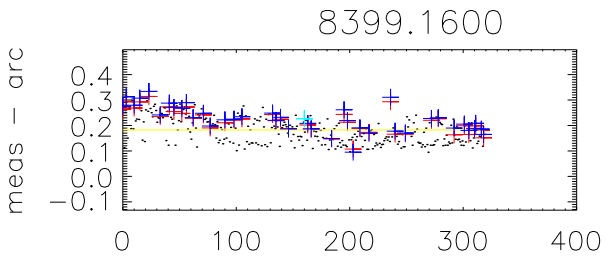

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

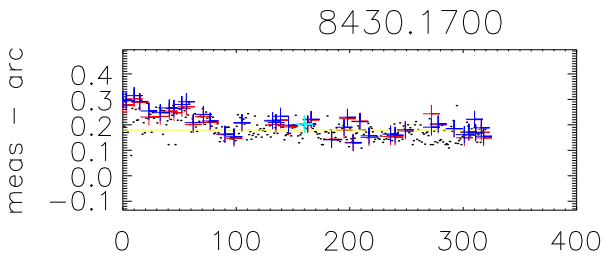

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

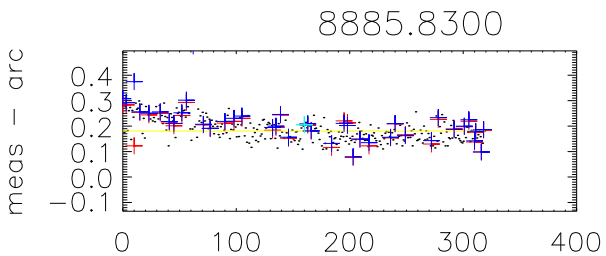

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

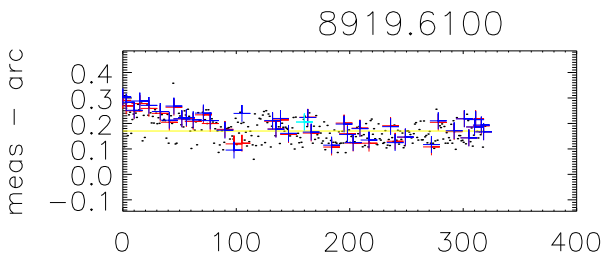

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

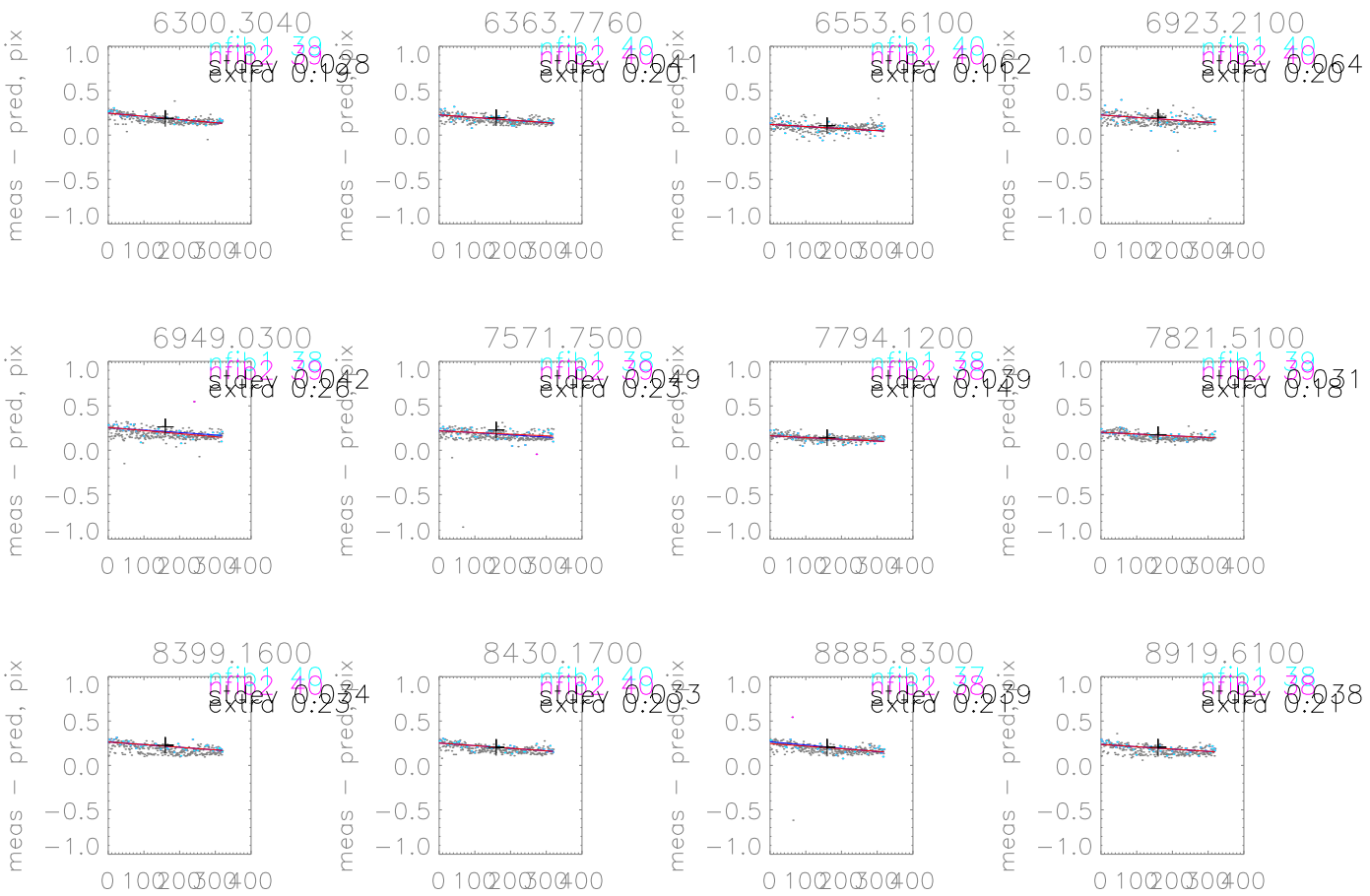

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

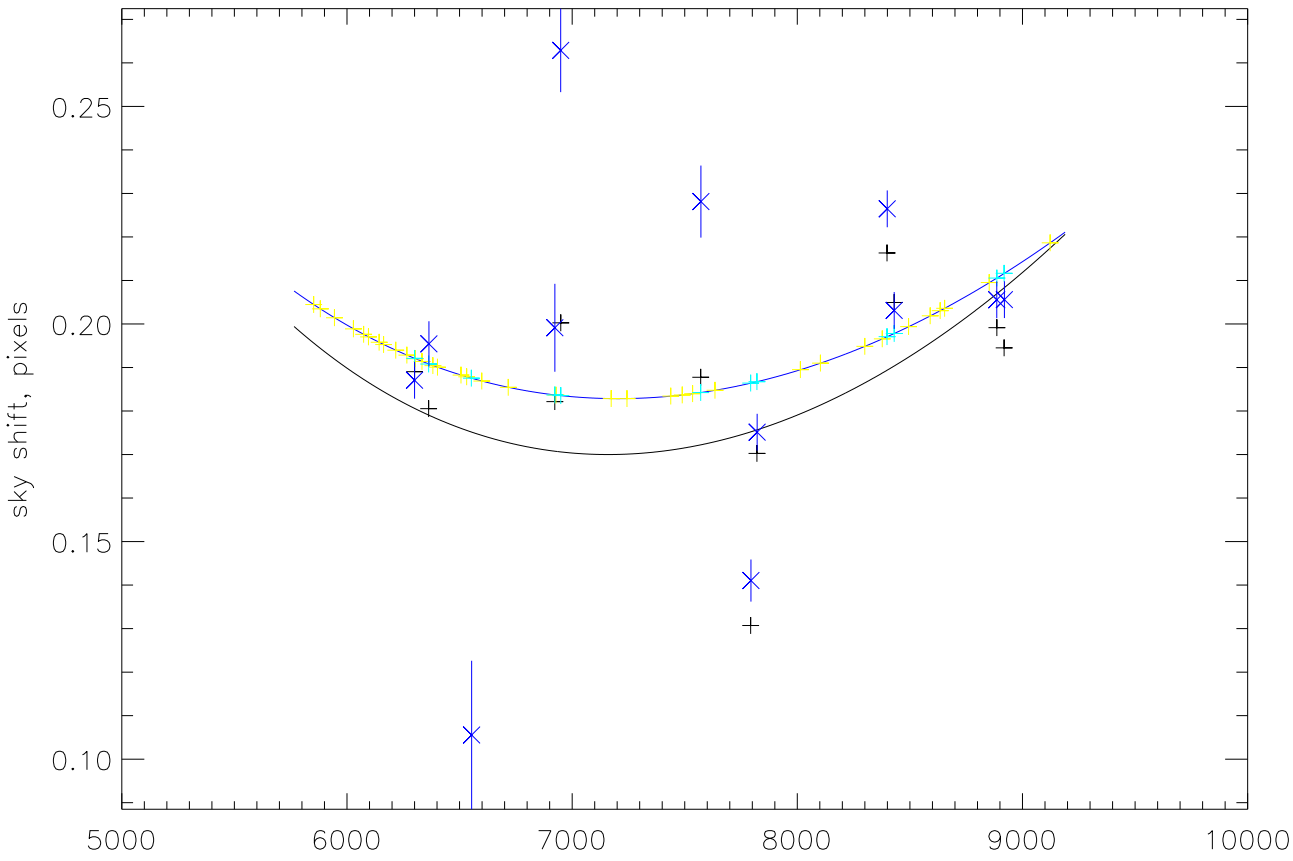

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

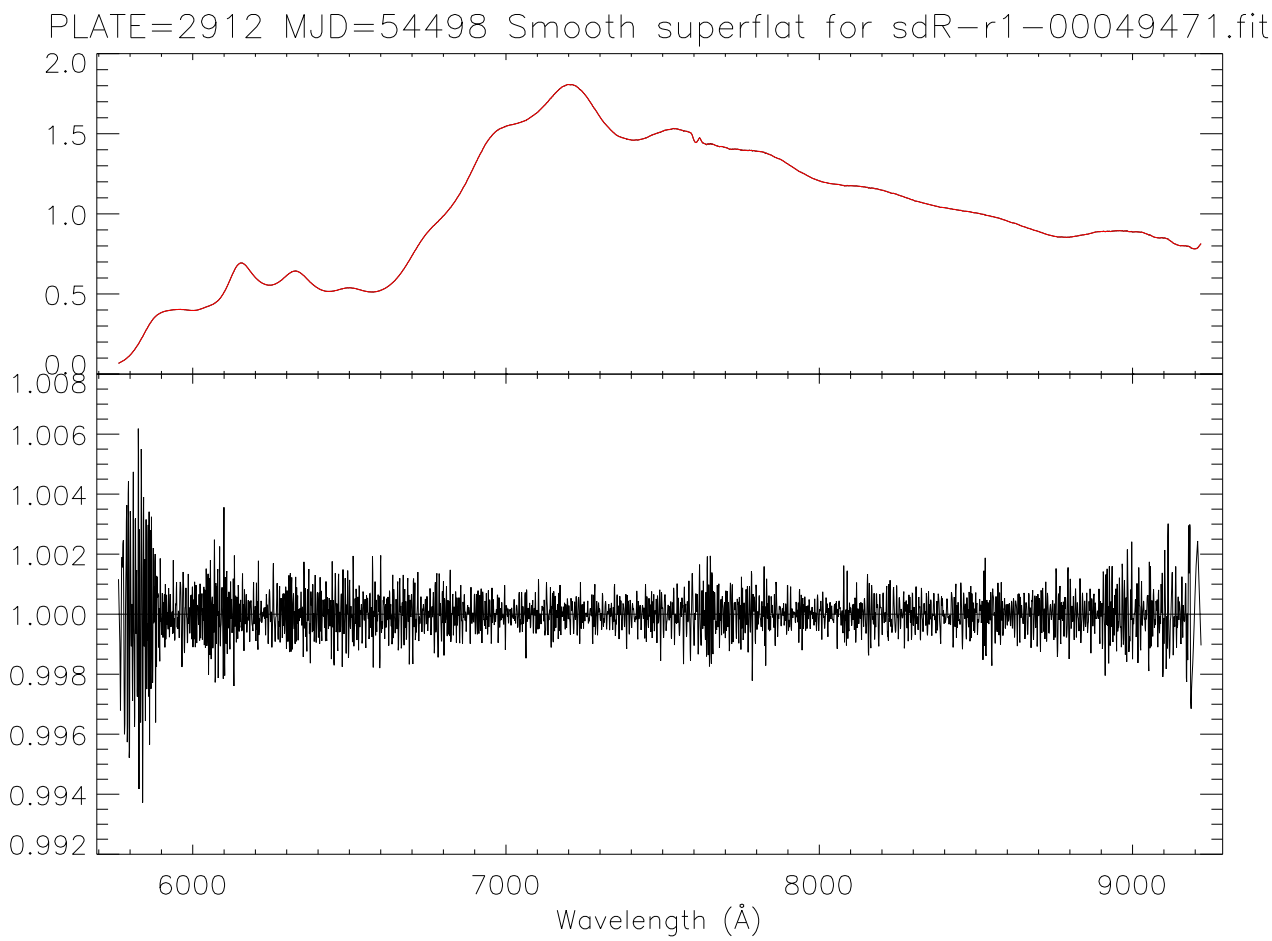

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

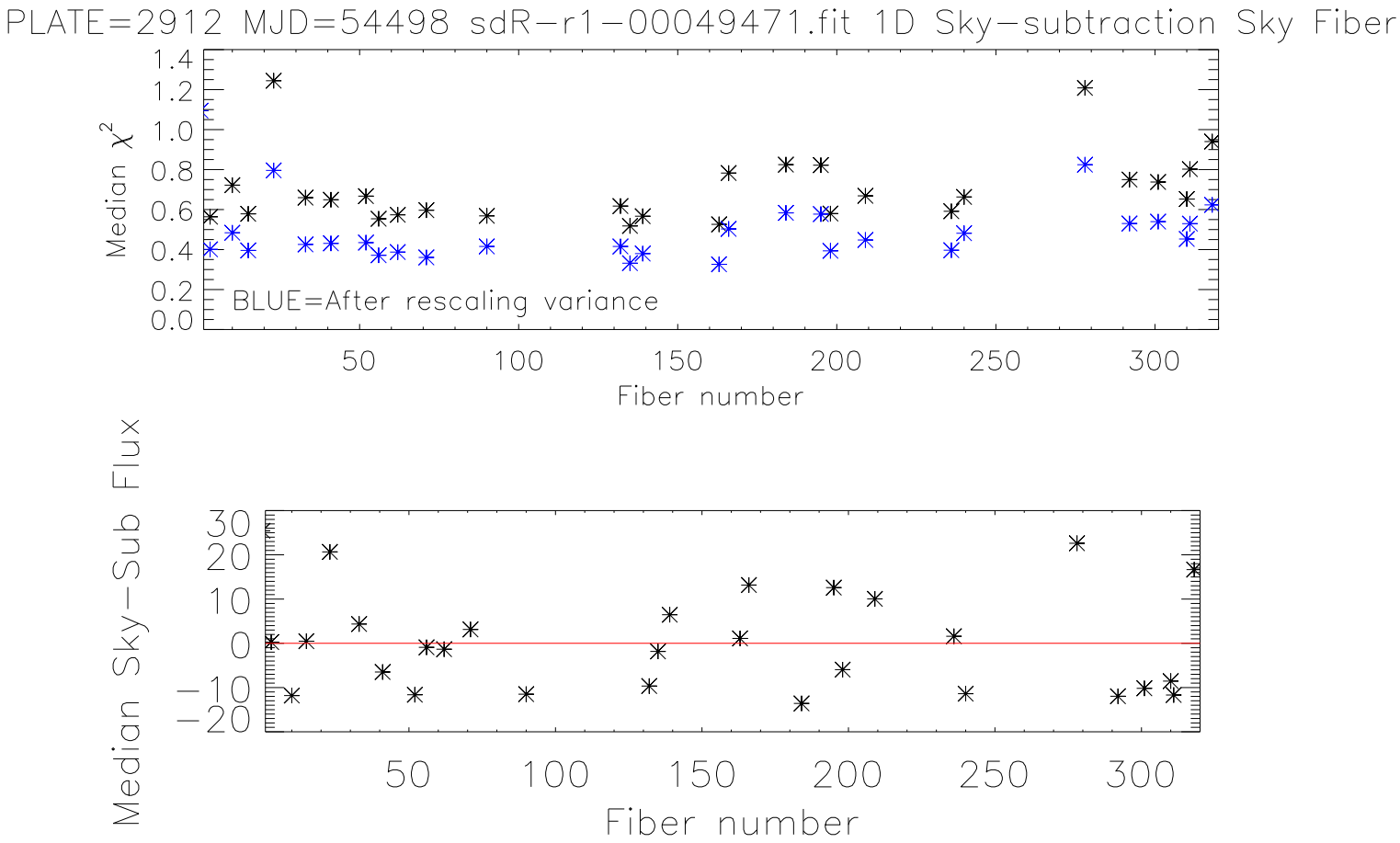

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

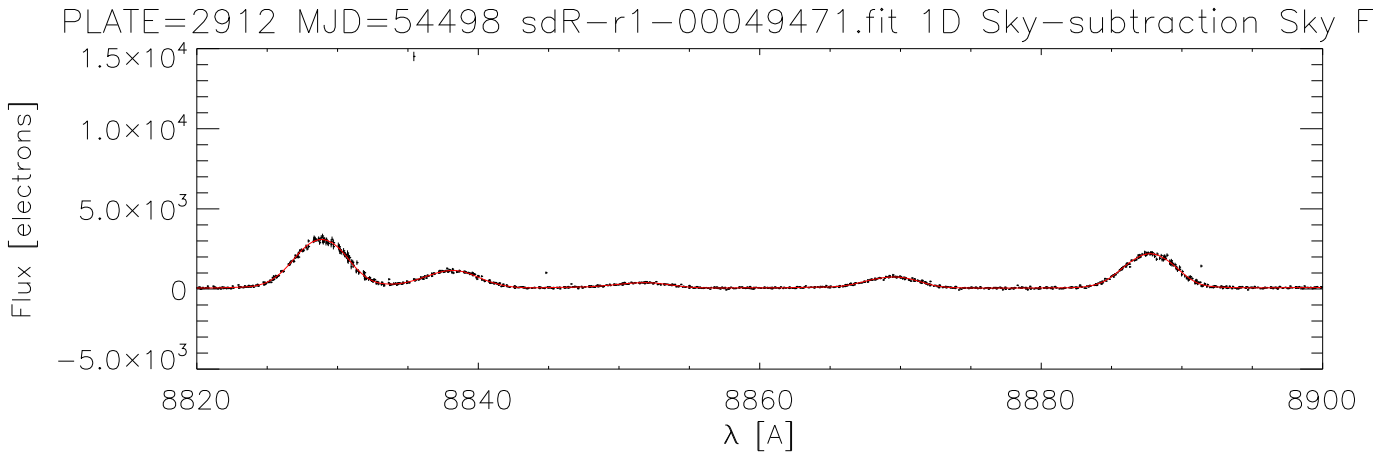

6300.3040
mfhi1 39
mfhi2 39
stdev 0.028
extra 0.19
6363.7760
mfhi1 40
mfhi2 40
stdev 0.041
extra 0.20
6553.6100
mfhi1 40
mfhi2 40
stdev 0.062
extra 0.19
6923.2100
mfhi1 40
mfhi2 40
stdev 0.064
extra 0.20
6949.0300
mfhi1 38
mfhi2 38
stdev 0.042
extra 0.26
7571.7500
mfhi1 38
mfhi2 38
stdev 0.049
extra 0.23
7794.1200
mfhi1 38
mfhi2 38
stdev 0.039
extra 0.14
7821.5100
mfhi1 39
mfhi2 39
stdev 0.031
extra 0.18
8399.1600
mfhi1 40
mfhi2 40
stdev 0.034
extra 0.23
8430.1700
mfhi1 40
mfhi2 40
stdev 0.033
extra 0.20
8885.8300
mfhi1 37
mfhi2 38
stdev 0.039
extra 0.21
8919.6100
mfhi1 38
mfhi2 38
stdev 0.038
extra 0.21
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

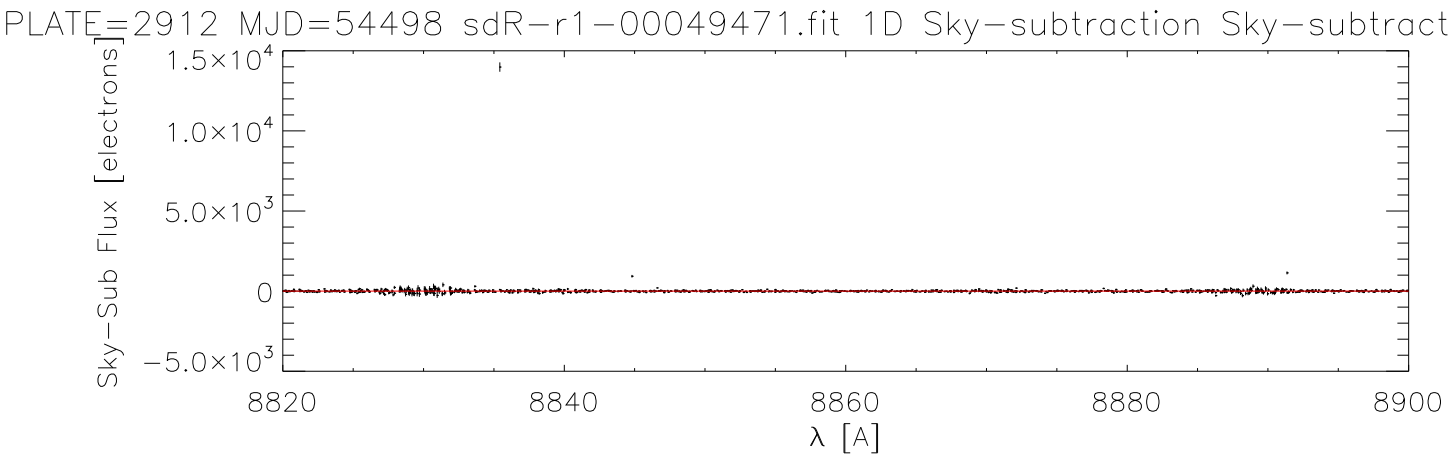

0.25
0.20
0.15
0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

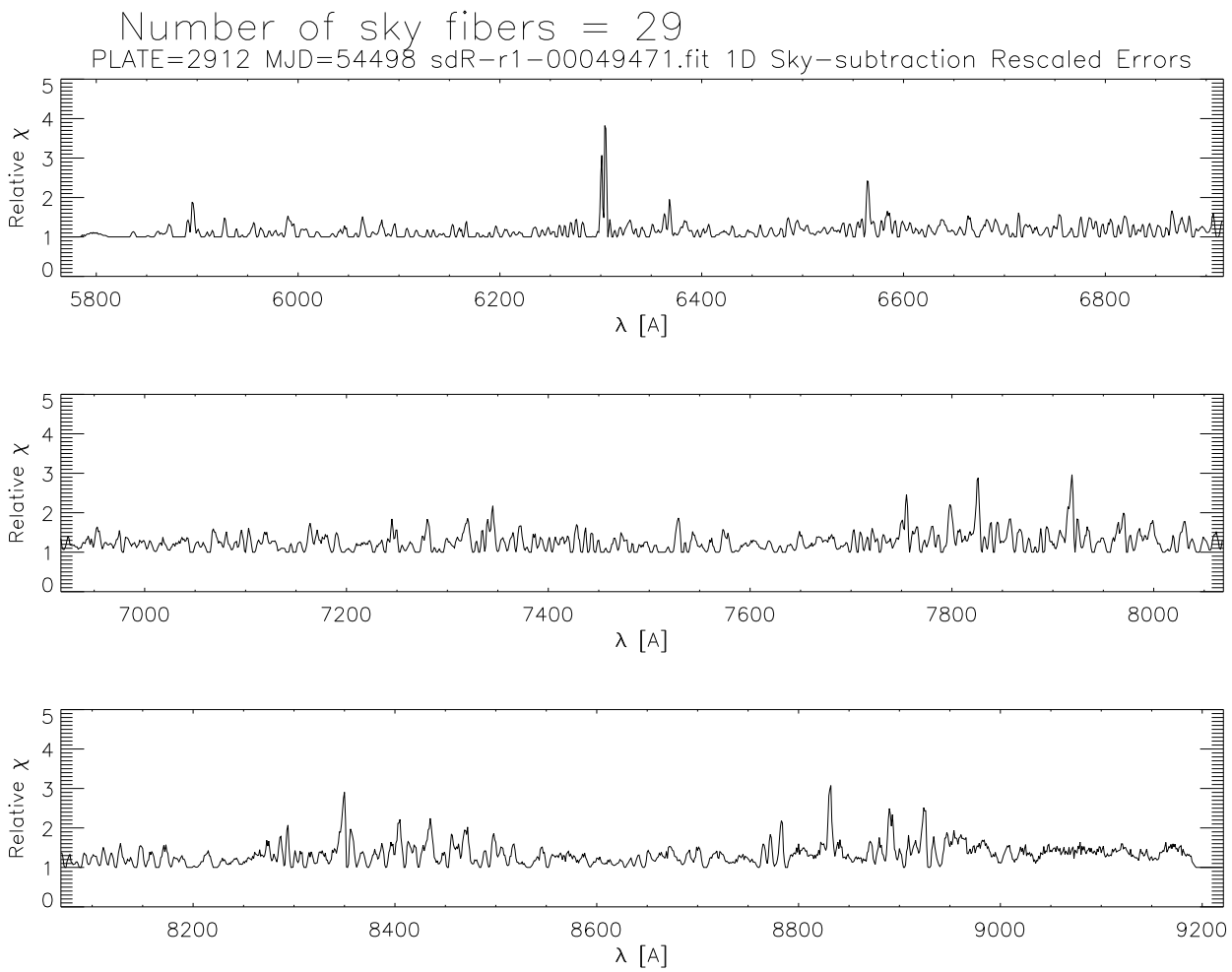
es= −0.0000

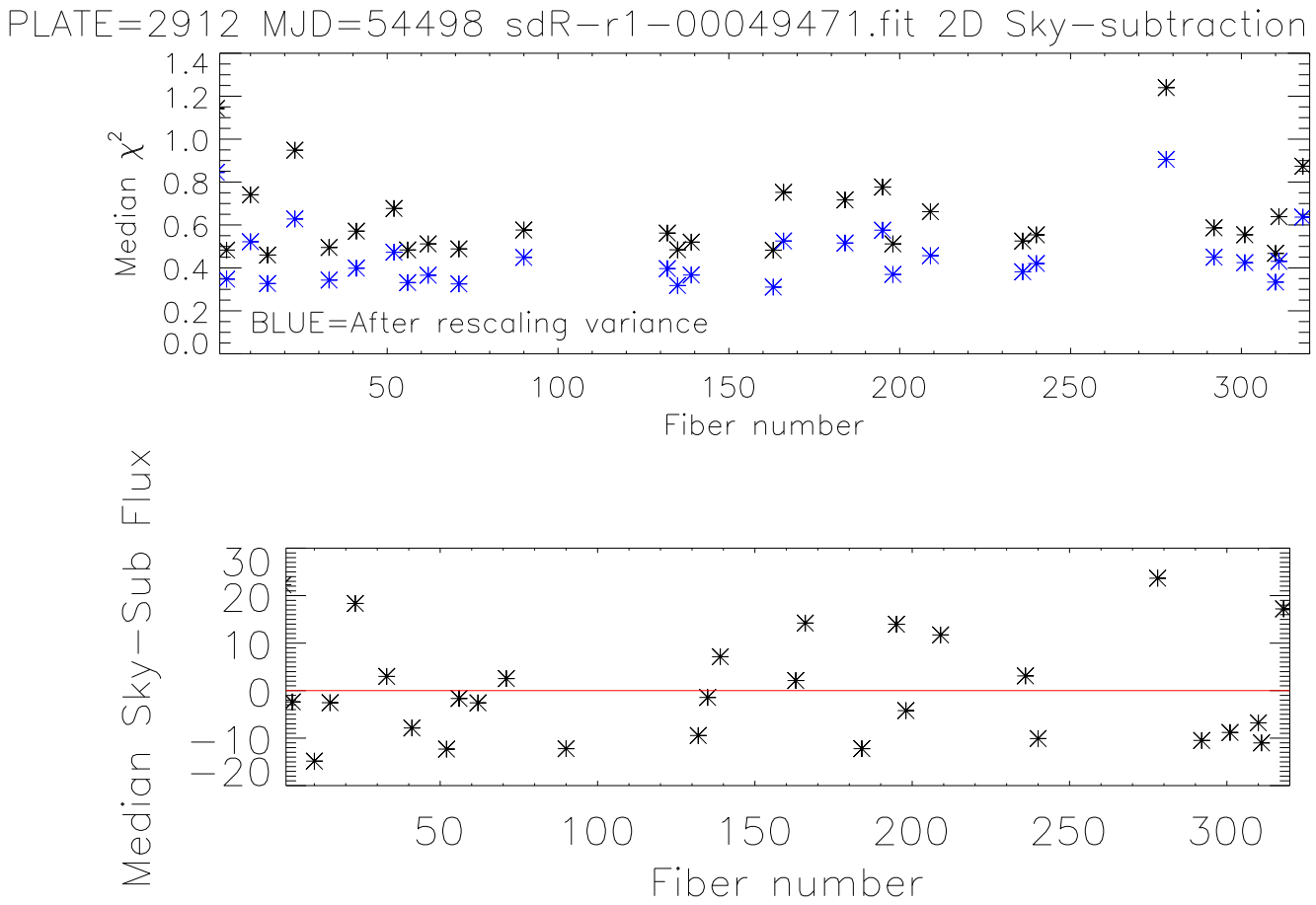

PLATE=2912 MJD=54498 Smooth superflat for sdR−r1−00049471.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

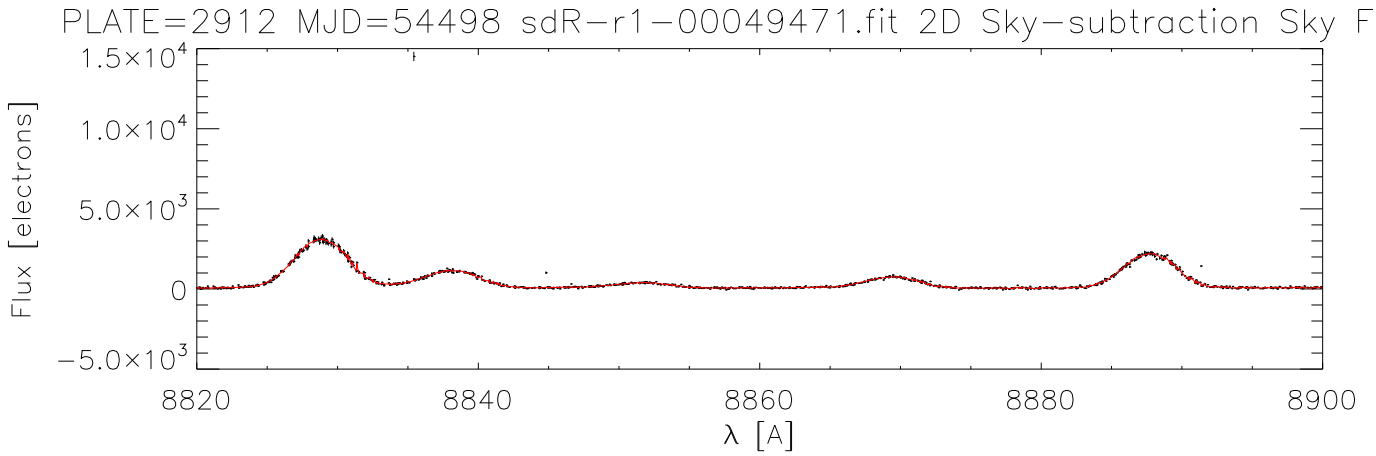

PLATE=2912 MJD=54498 sdR-r1-00049471.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

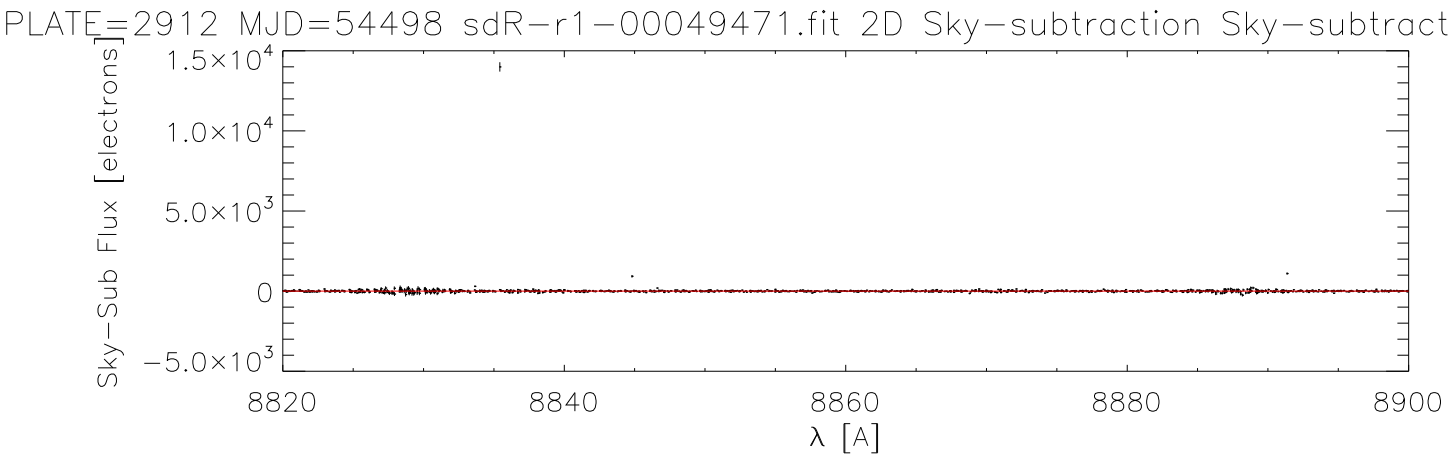

PLATE=2912 MJD=54498 sdR-r1-00049471.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

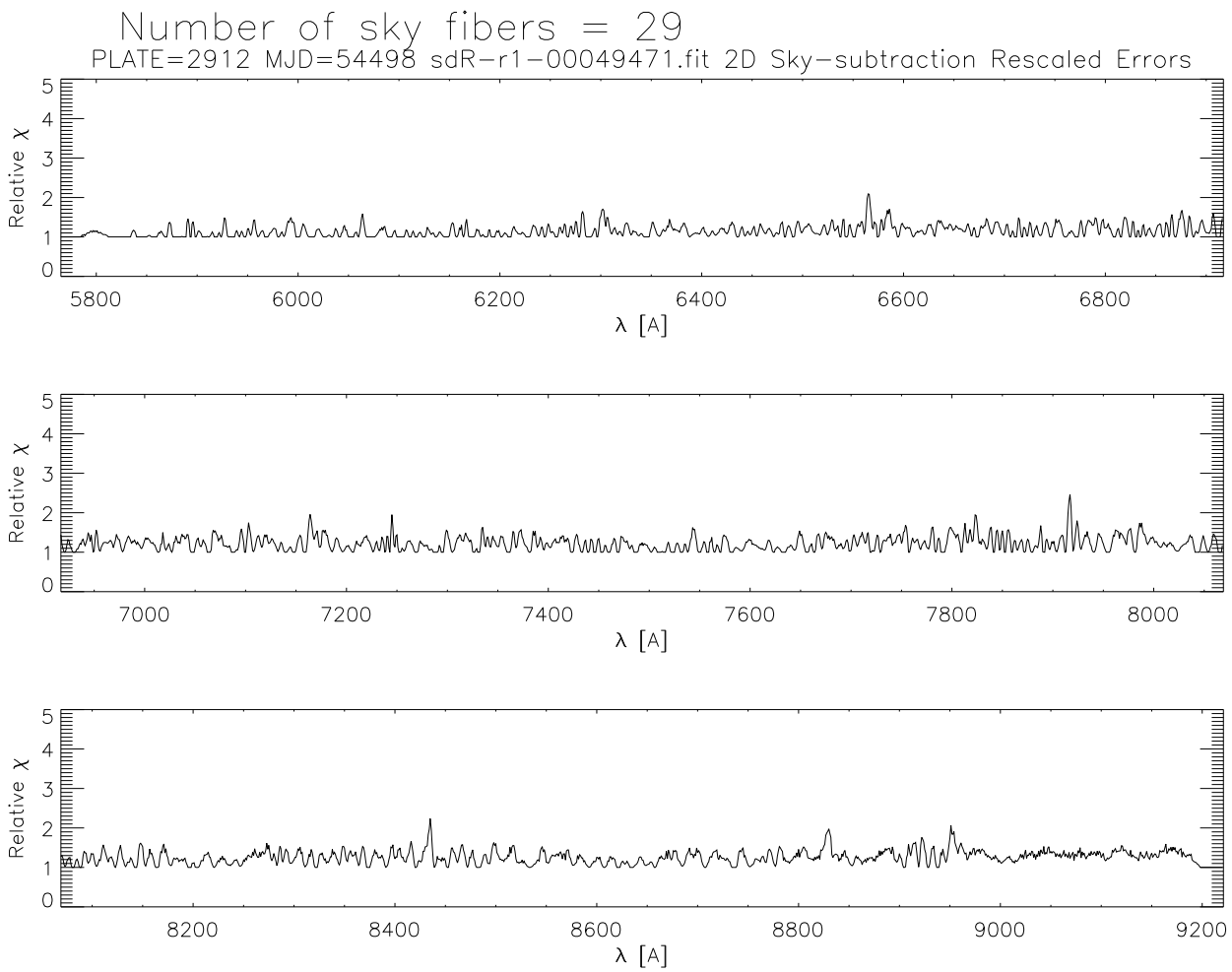

PLATE=2912 MJD=54498 sdR-r1-00049471.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

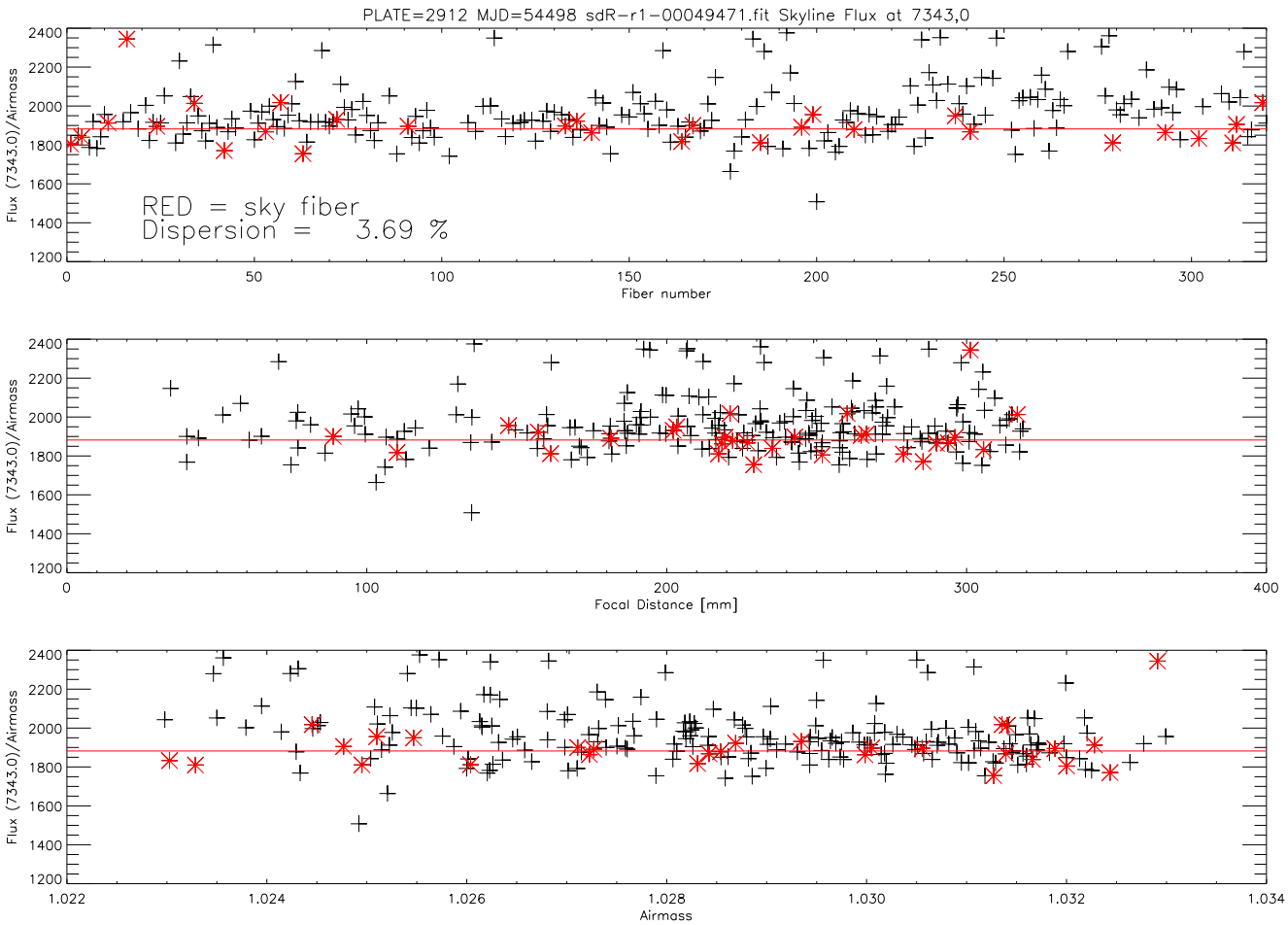

Number of sky fibers = 29
PLATE=2912 MJD=54498 sdR-r1-00049471.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

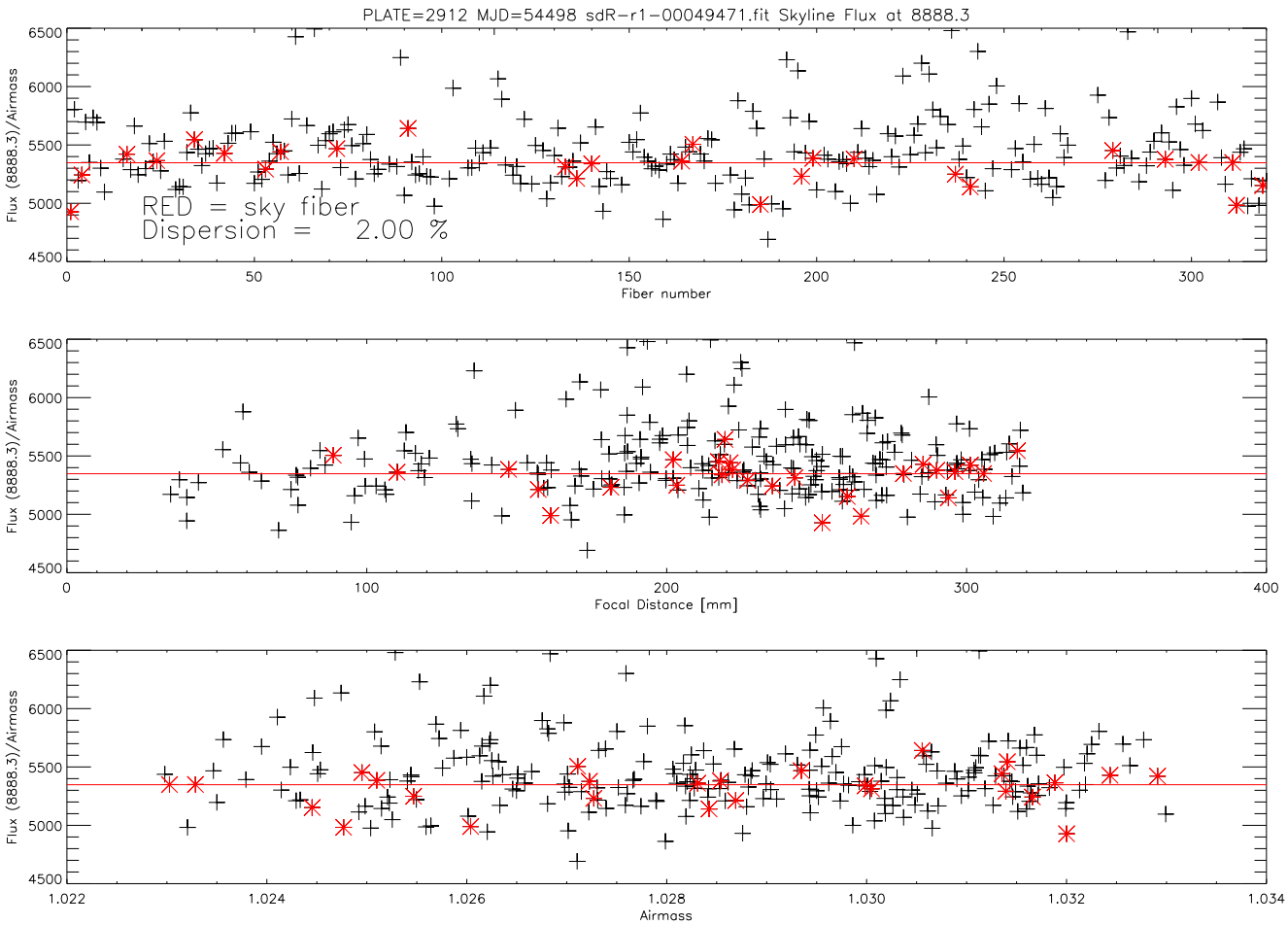

PLATE=2912 MJD=54498 sdR-r1-00049471.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

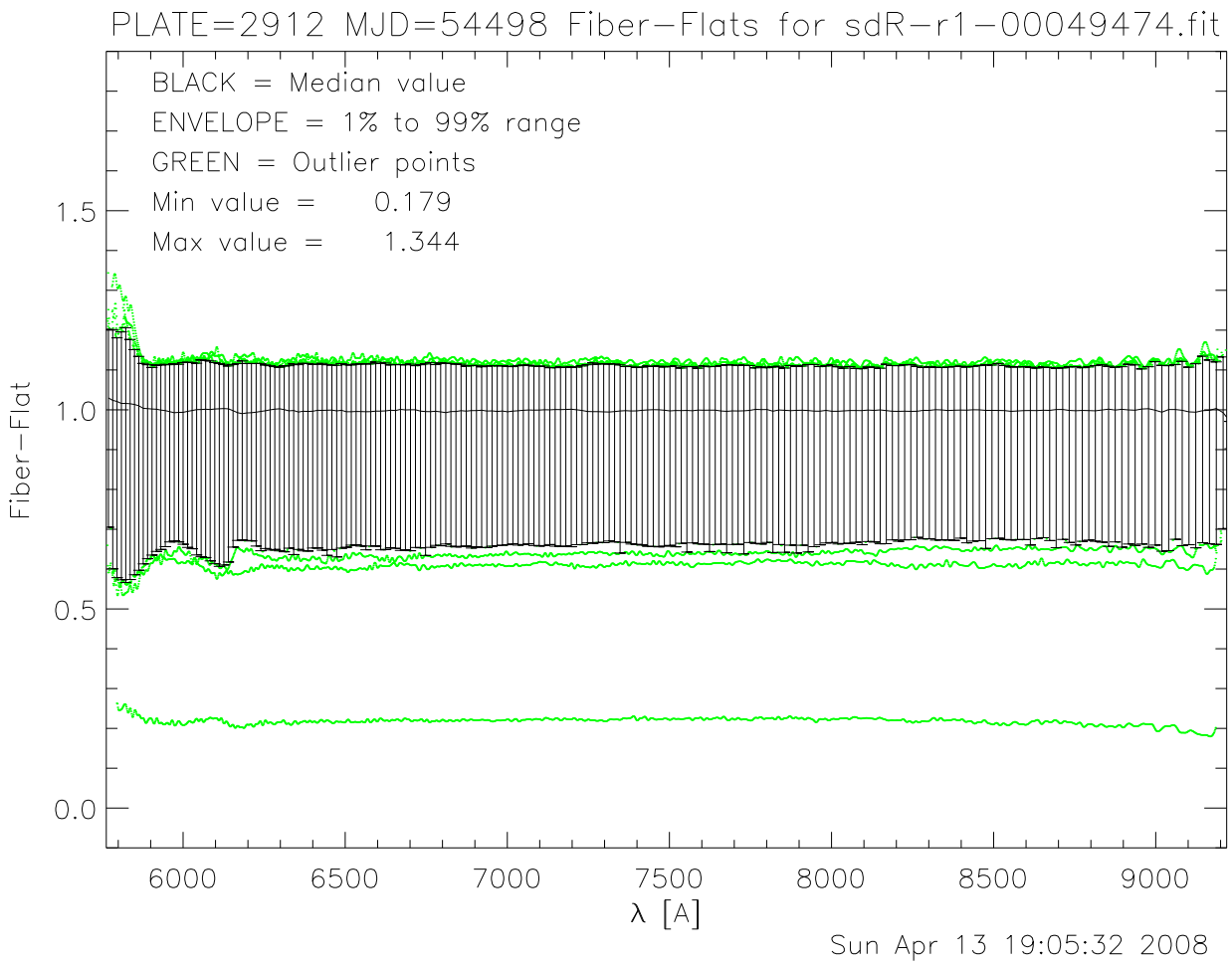

PLATE=2912 MJD=54498 sdR-r1-00049471.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

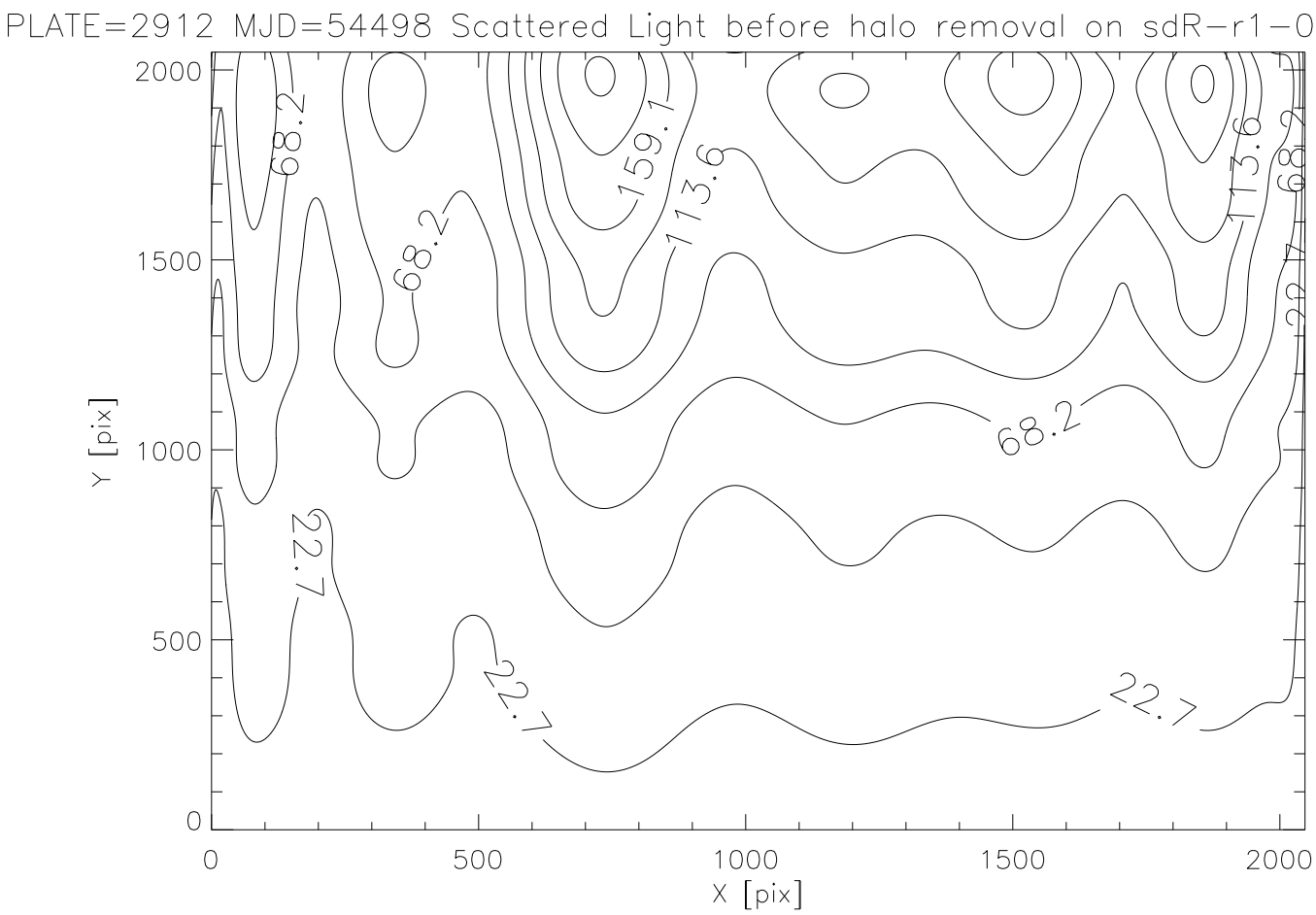

PLATE=2912 MJD=54498 sdR-r1-00049471.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

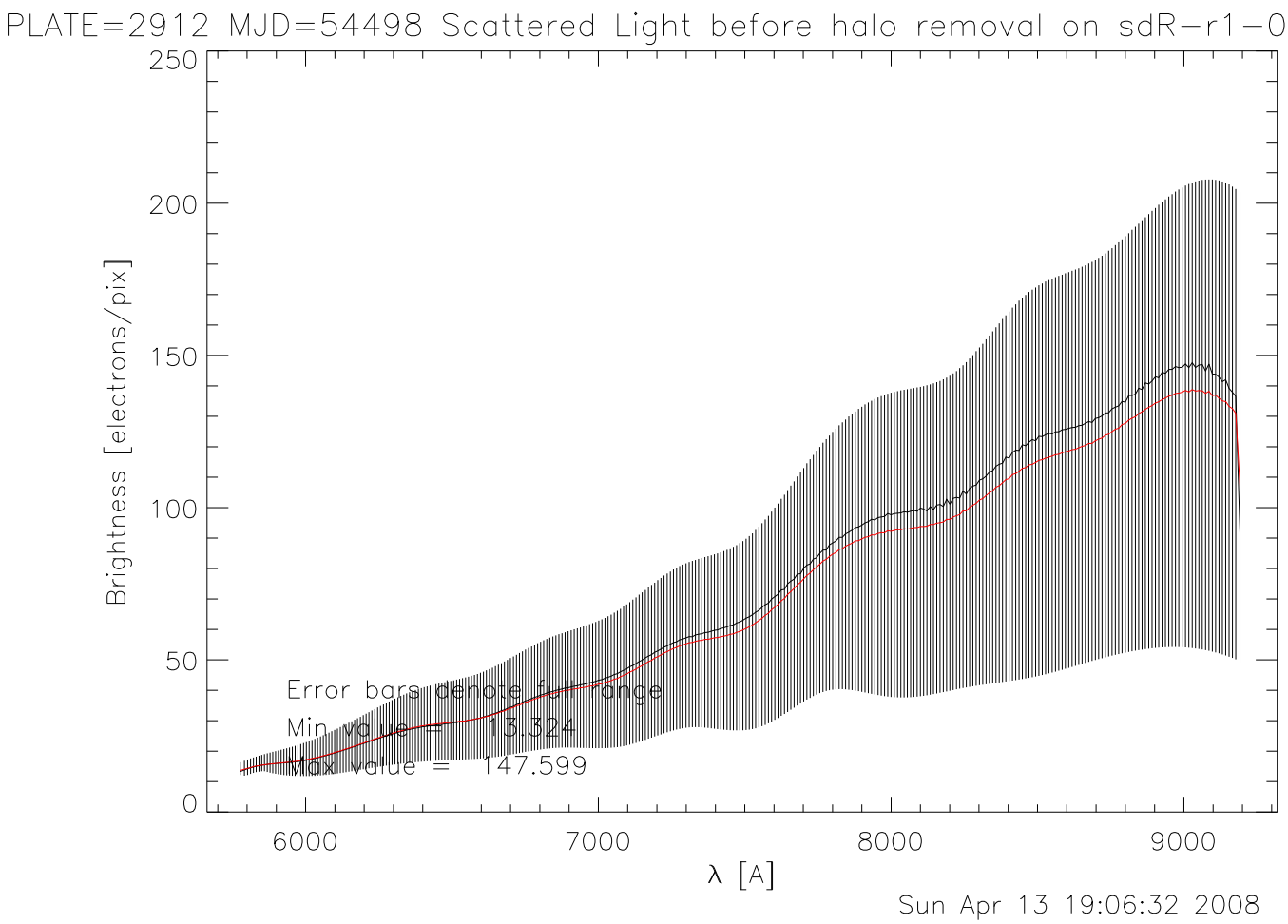

Number of sky fibers = 29
PLATE=2912 MJD=54498 sdR-r1-00049471.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

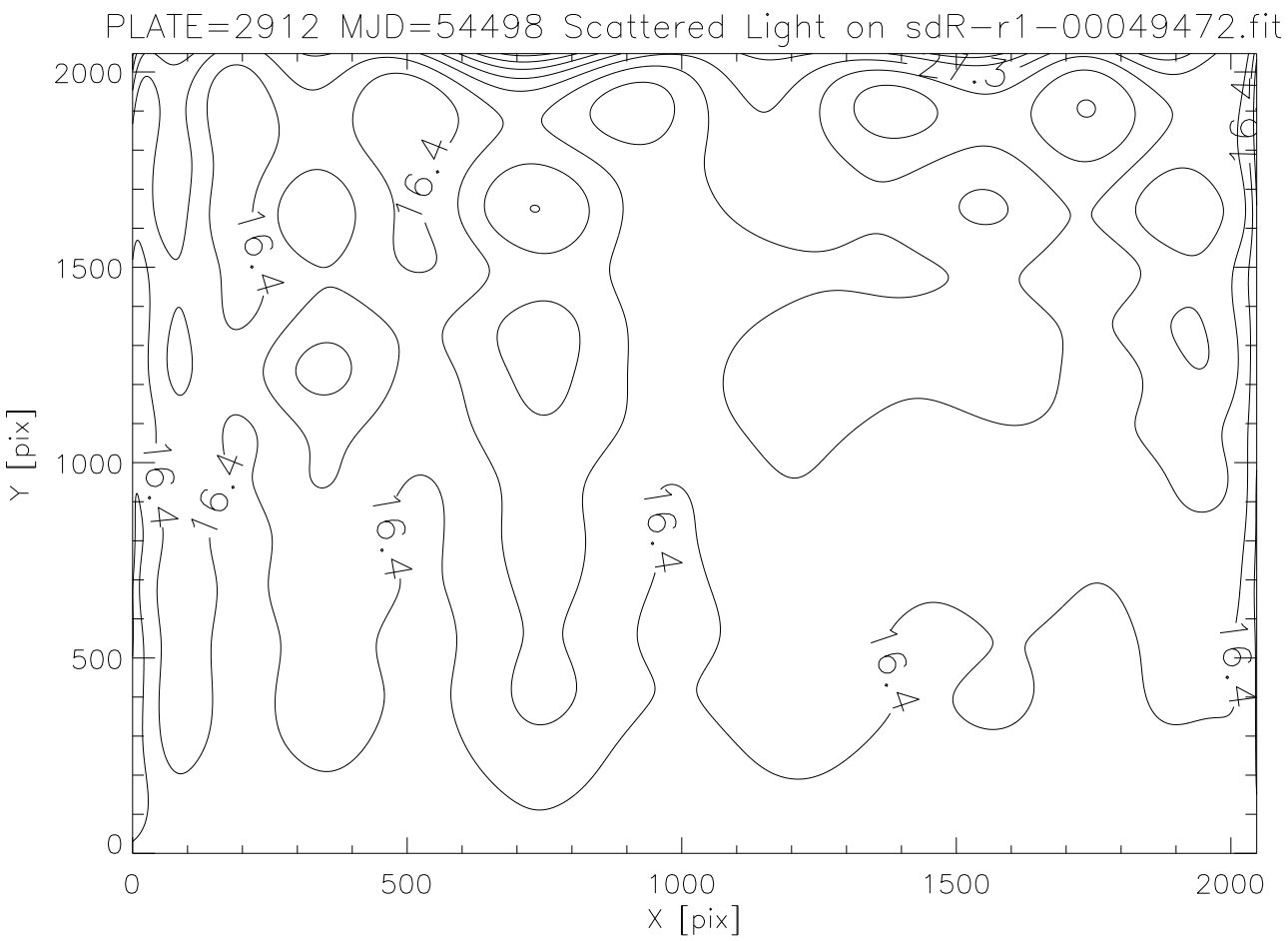

PLATE=2912 MJD=54498 sdR-r1-00049471.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.69 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

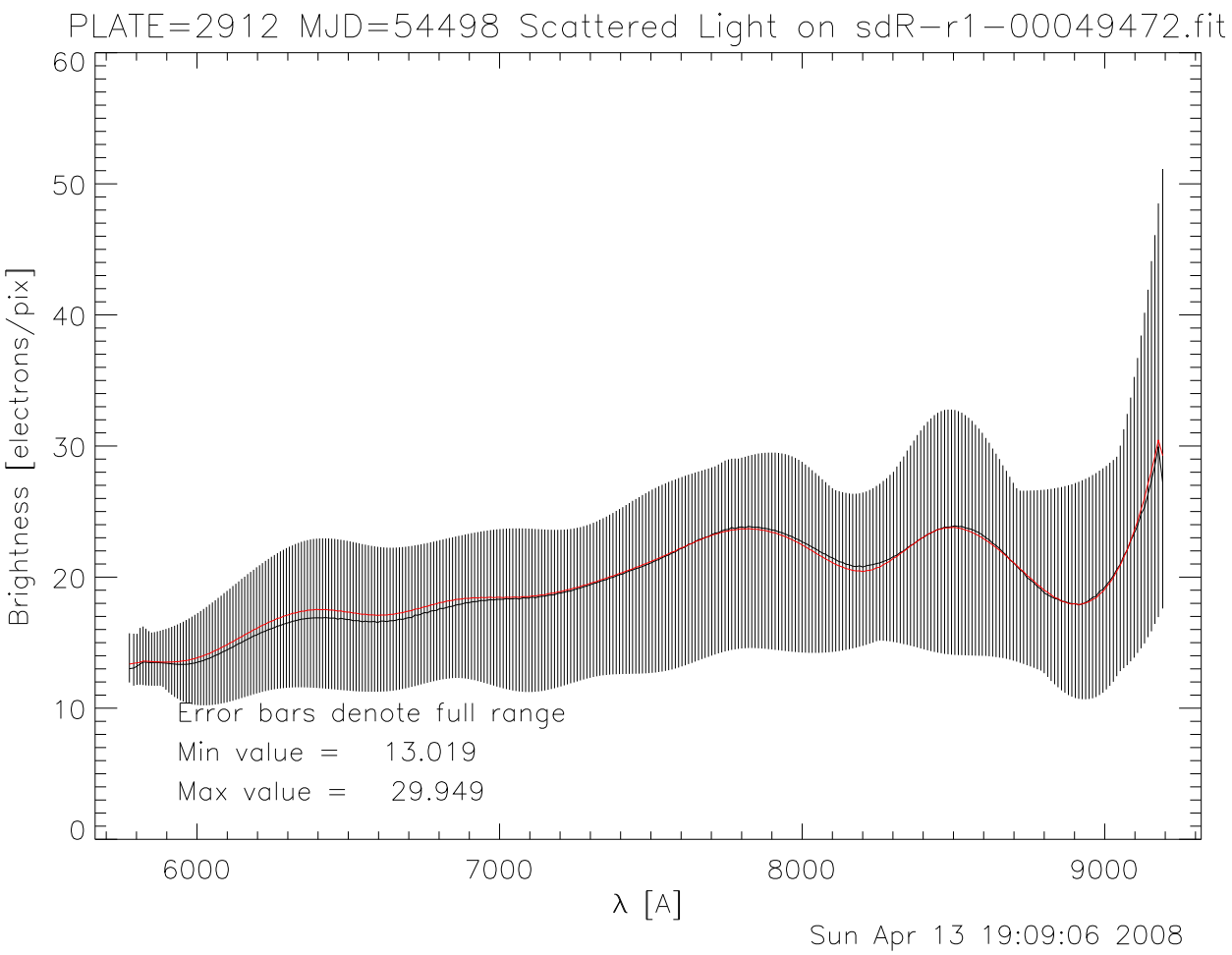

PLATE=2912 MJD=54498 sdR-r1-00049471.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.00 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

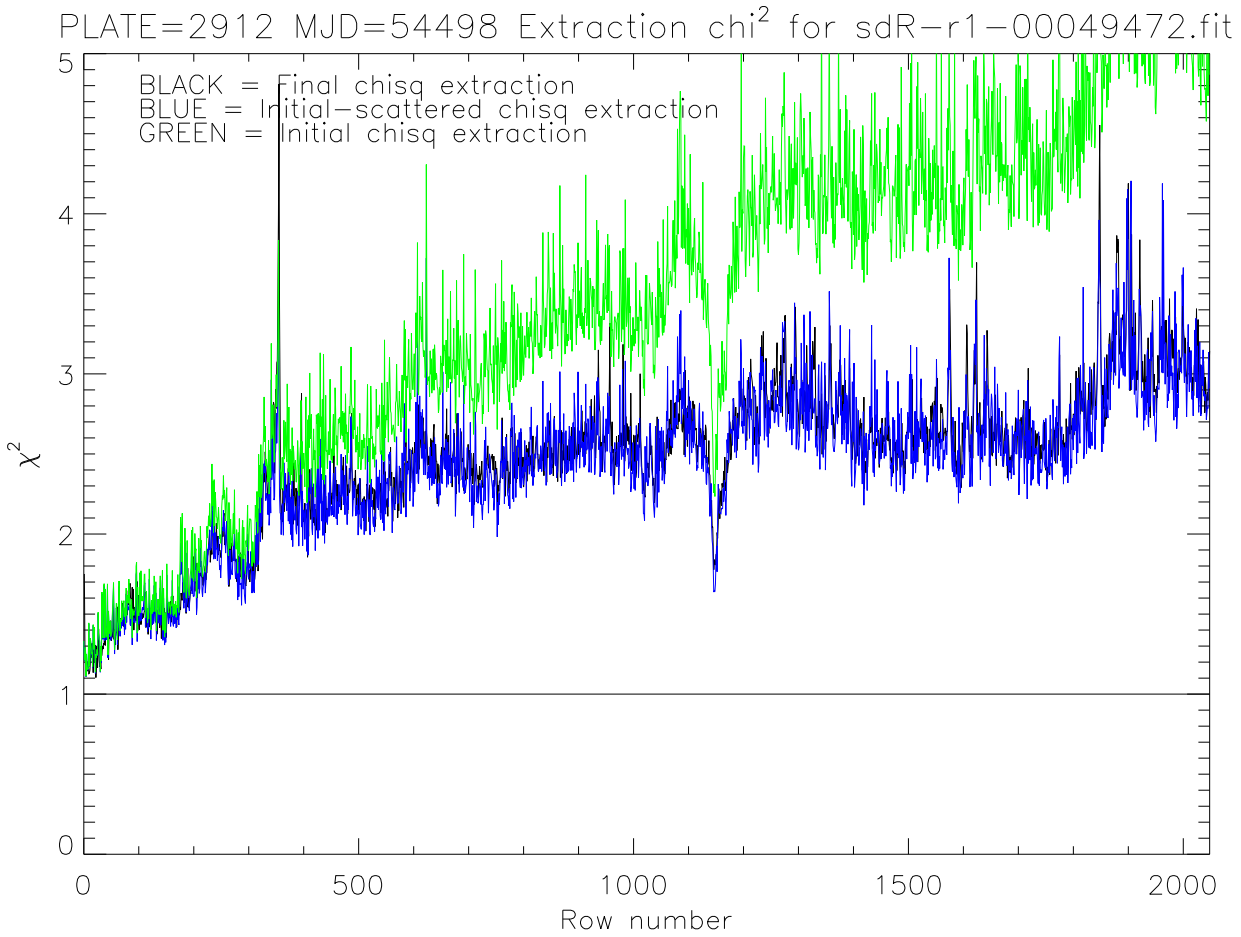

PLATE=2912 MJD=54498 Fiber-Flats for sdR-r1-00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.179
Max value = 1.344
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Apr 13 19:05:32 2008

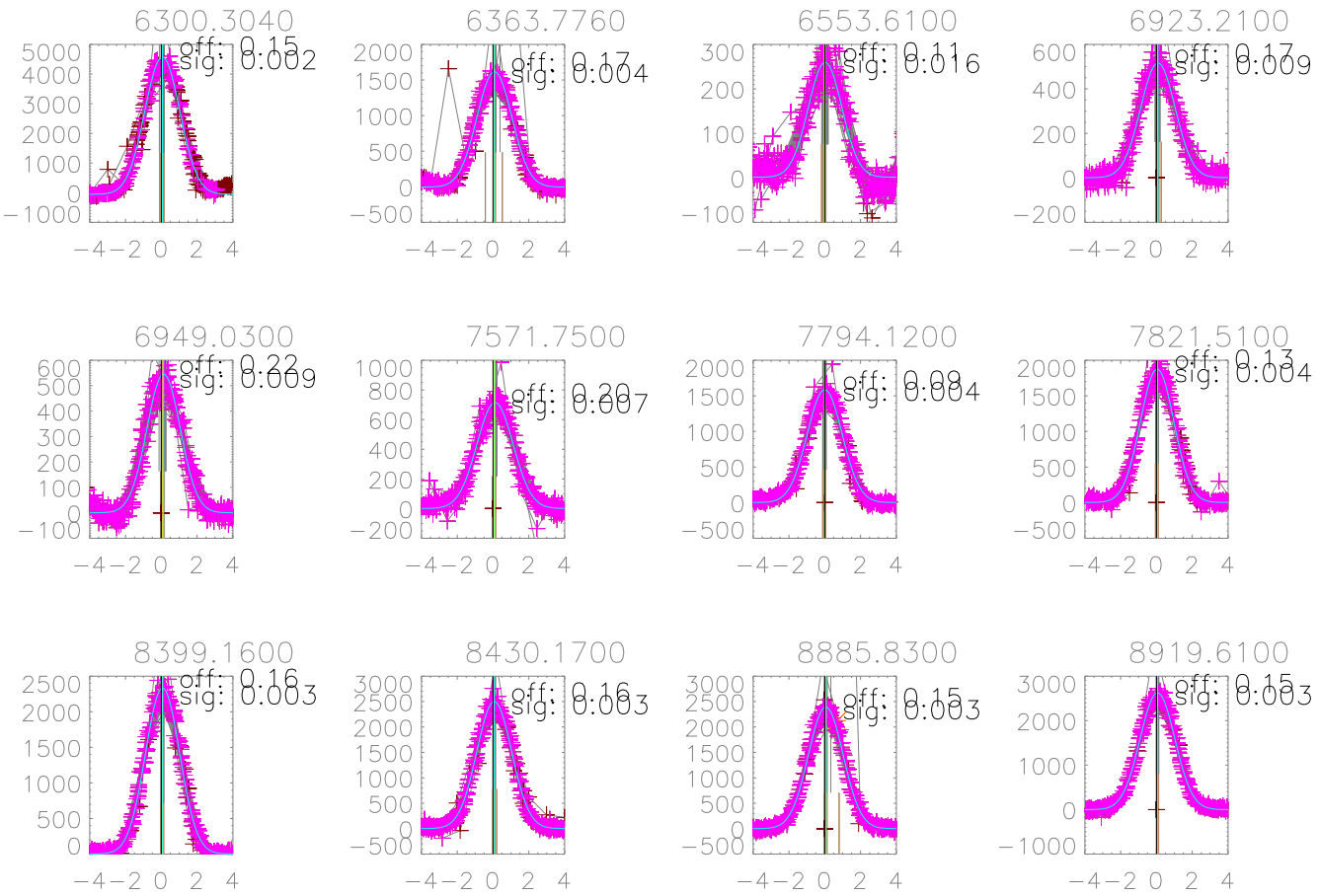

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r1-00049472.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
68.2
159.1
113.6
68.2
68.2
113.6
68.2
22.7
22.7
22.7
22.7

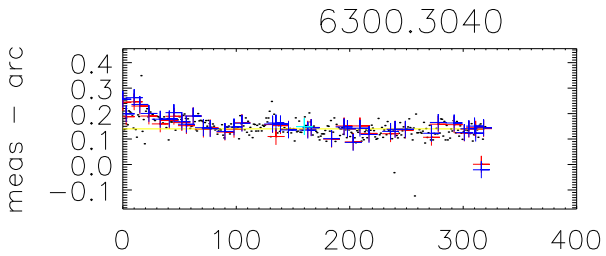

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r1-00049472.fi
Brightness [electrons/pix]
250
200
150
100
50
0
6000
7000
8000
9000
λ [A]
Error bars denote 1σ range
Min value = 13.324
Max value = 147.599
Sun Apr 13 19:06:32 2008

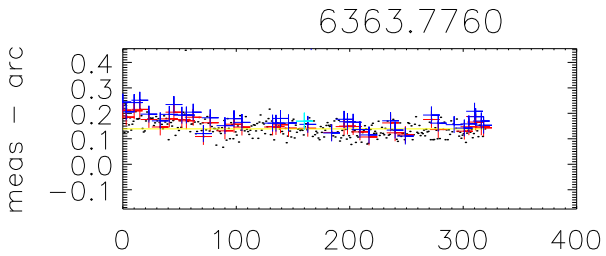

PLATE=2912 MJD=54498 Scattered Light on sdR-r1-00049472.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
16.4
16.4
16.4

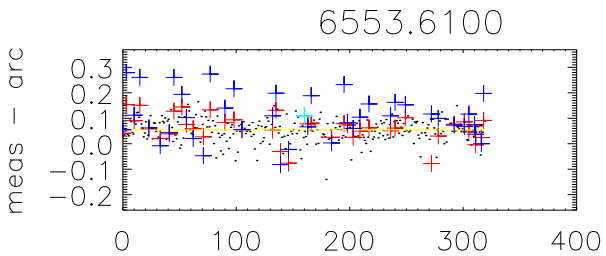

PLATE=2912 MJD=54498 Scattered Light on sdR-r1-00049472.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 13.019
Max value = 29.949
Sun Apr 13 19:09:06 2008

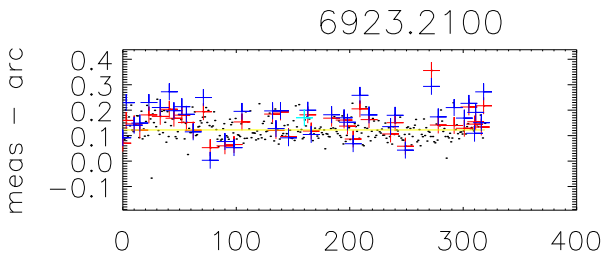

PLATE=2912 MJD=54498 Extraction chi^2 for sdR−r1−00049472.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
0
500
1000
1500
2000

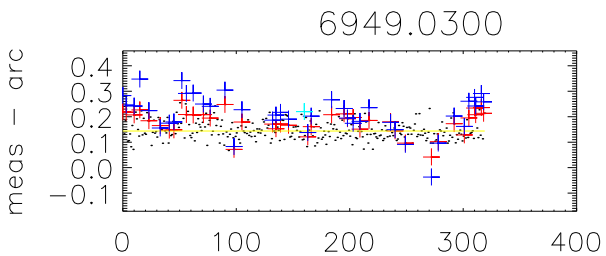

6300.3040
off: 0.15
sig: 0.002
6363.7760
off: 0.17
sig: 0.004
6553.6100
off: 0.11
sig: 0.016
6923.2100
off: 0.17
sig: 0.009
6949.0300
off: 0.22
sig: 0.009
7571.7500
off: 0.20
sig: 0.007
7794.1200
off: 0.08
sig: 0.004
7821.5100
off: 0.13
sig: 0.004
8399.1600
off: 0.16
sig: 0.003
8430.1700
off: 0.16
sig: 0.003
8885.8300
off: 0.15
sig: 0.003
8919.6100
off: 0.15
sig: 0.003

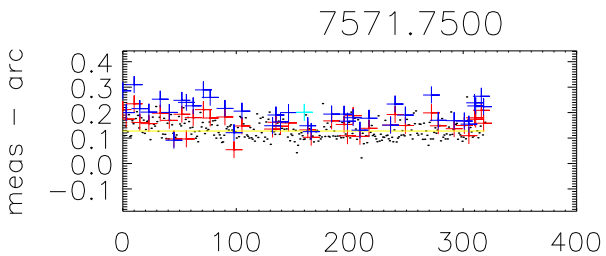

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

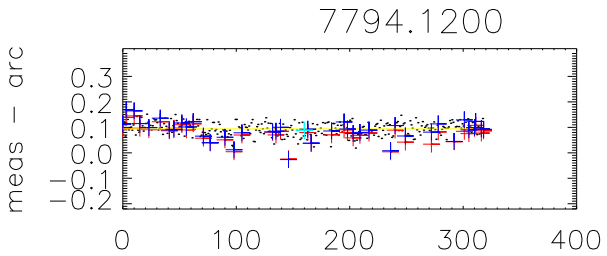

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

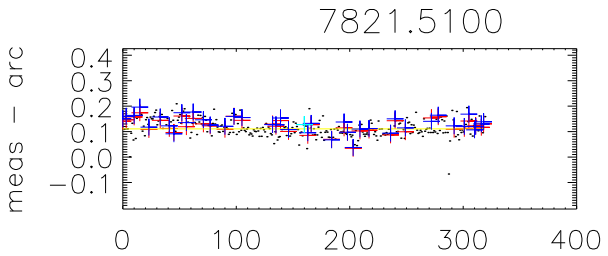

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

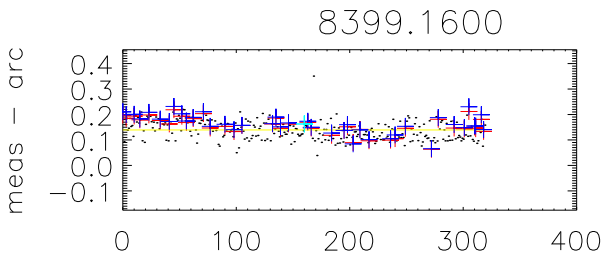

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

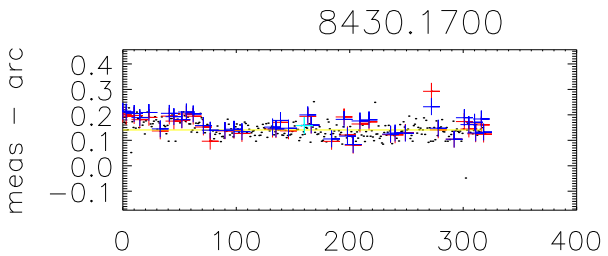

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

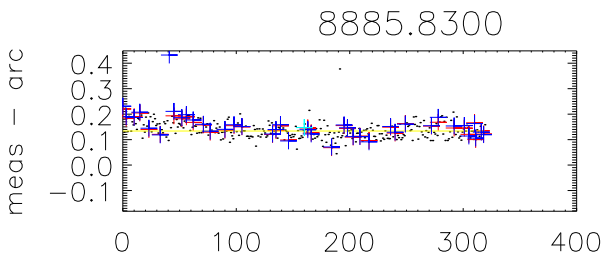

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

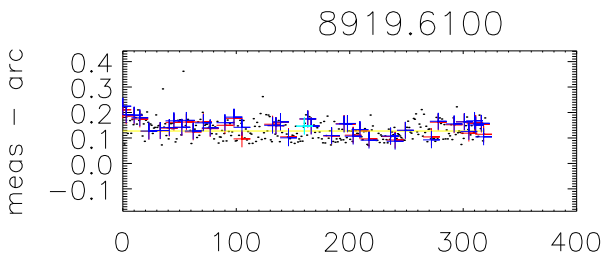

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

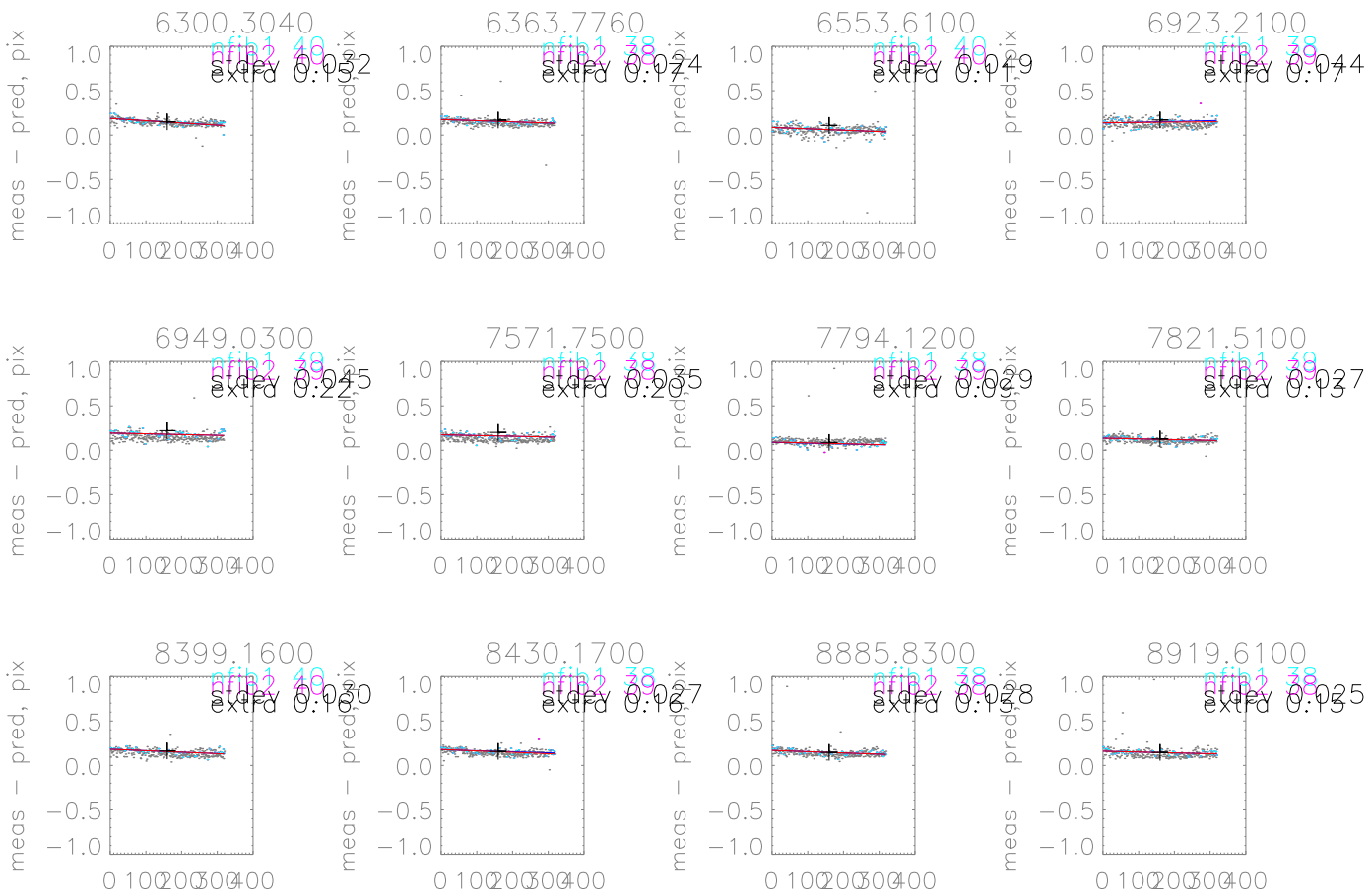

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

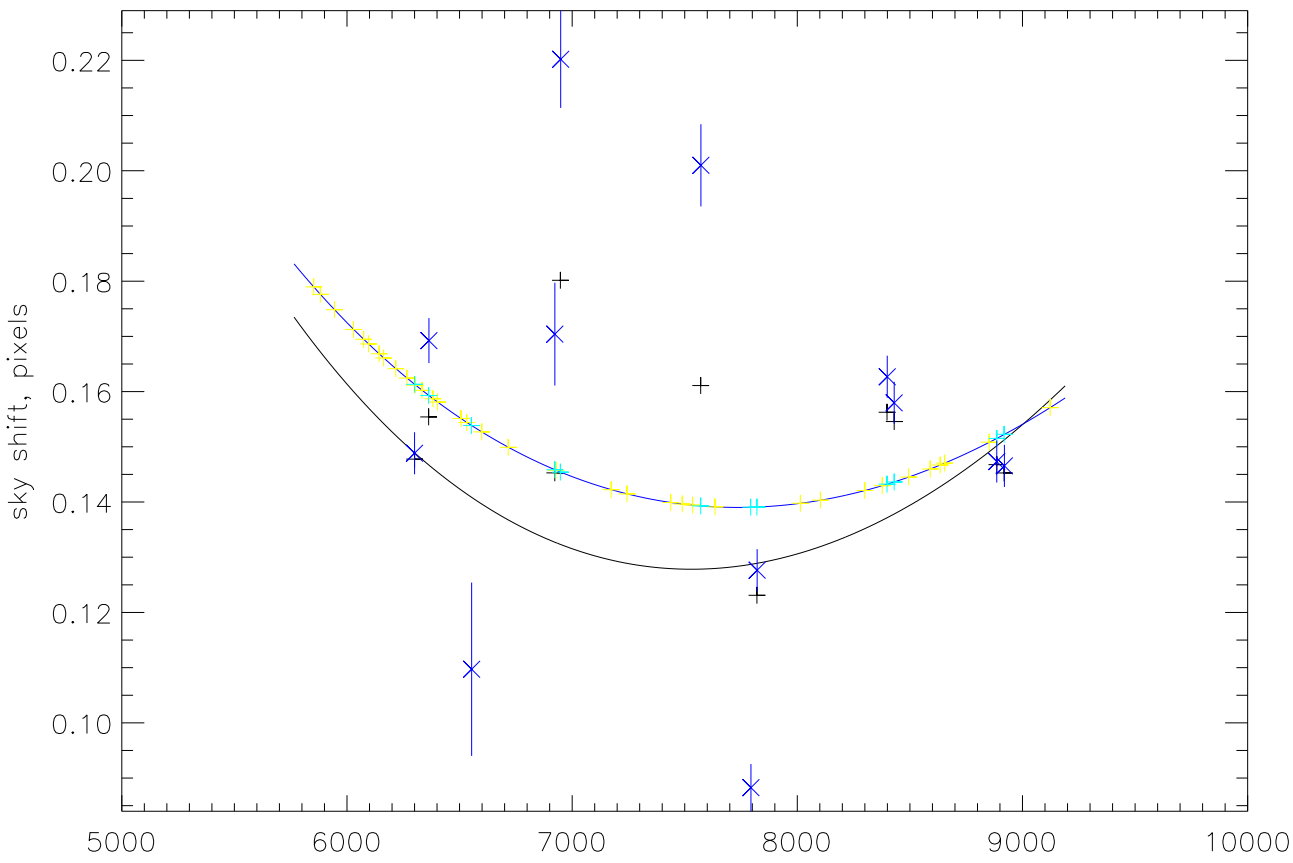

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

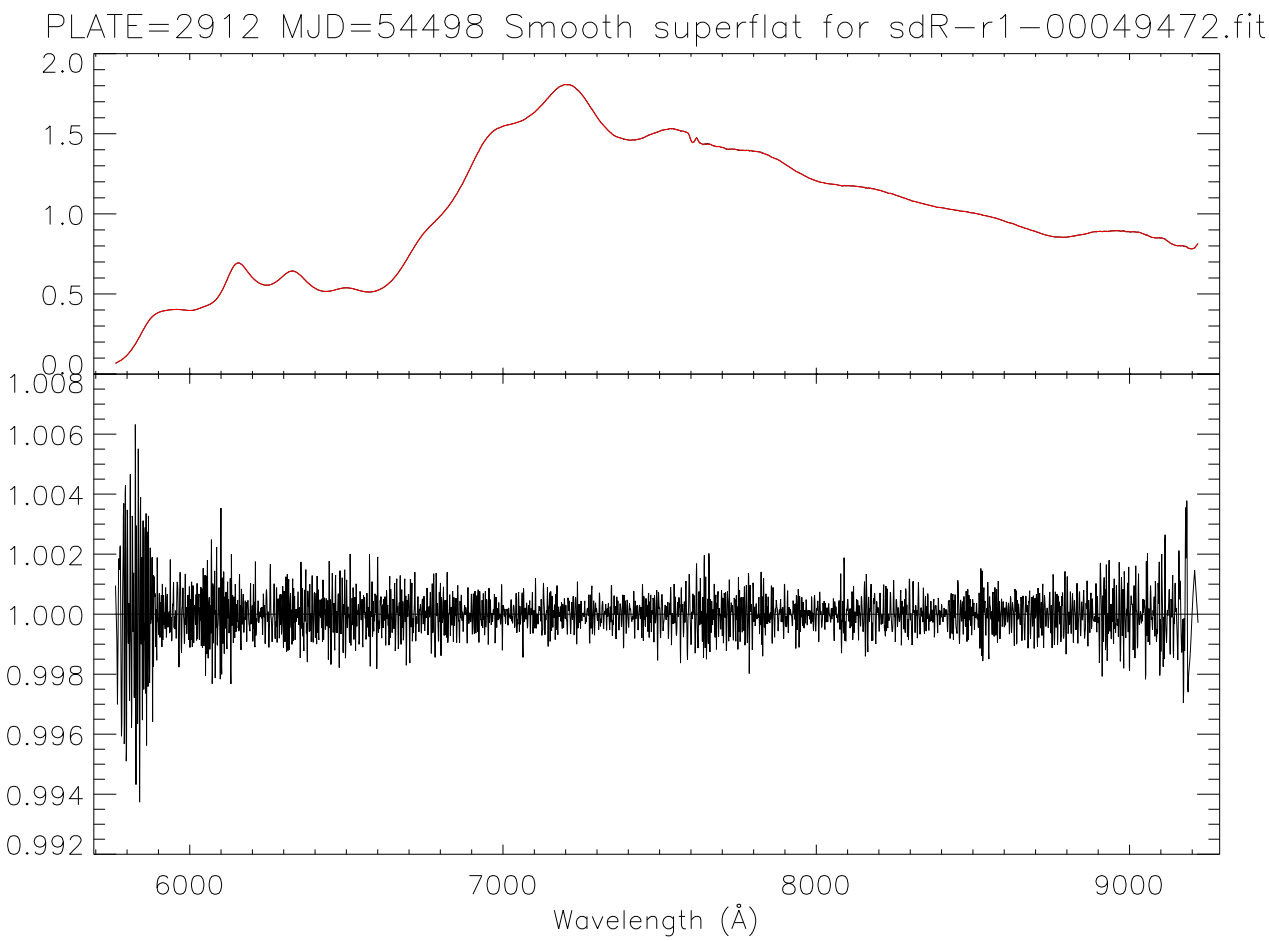

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

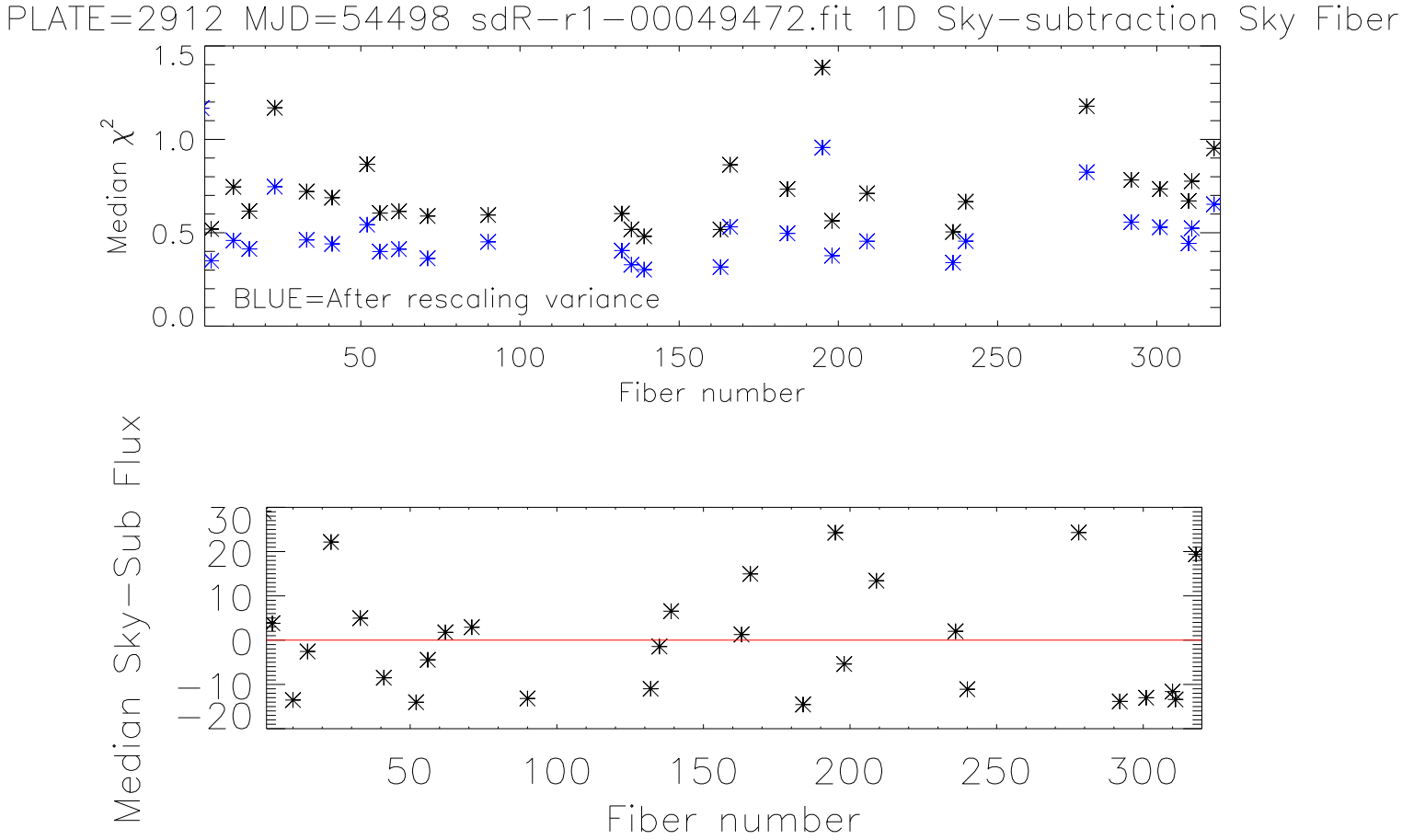

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

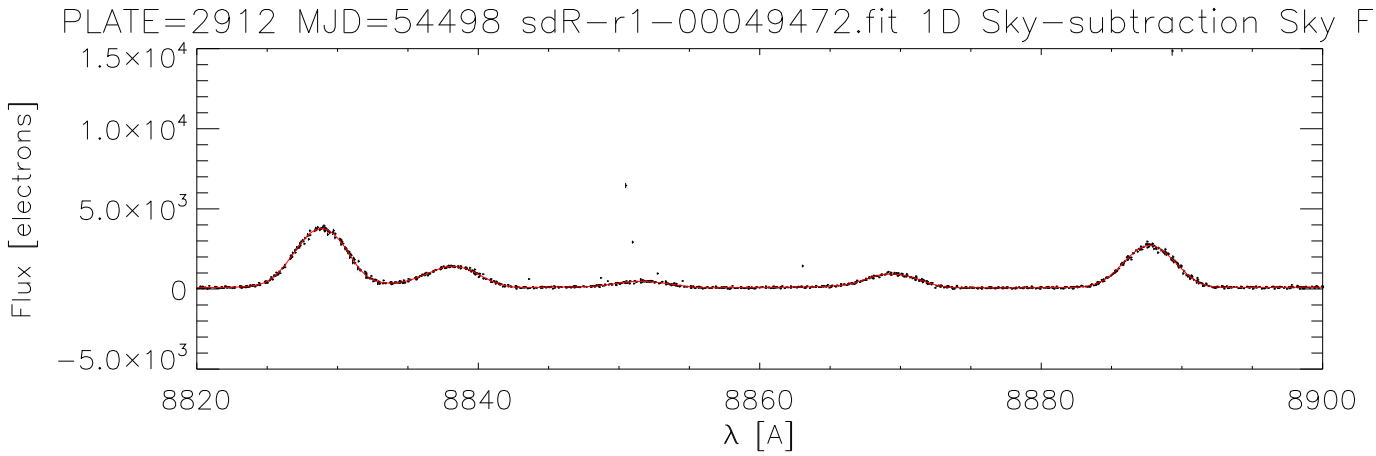

6300.3040
mfhi1 40
mfhi2 40
stdev 0.032
extra 0.152
6363.7760
mfhi1 38
mfhi2 38
stdev 0.024
extra 0.17
6553.6100
mfhi1 40
mfhi2 40
stdev 0.019
extra 0.149
6923.2100
mfhi1 38
mfhi2 38
stdev 0.044
extra 0.17
6949.0300
mfhi1 39
mfhi2 39
stdev 0.045
extra 0.22
7571.7500
mfhi1 38
mfhi2 38
stdev 0.035
extra 0.205
7794.1200
mfhi1 38
mfhi2 38
stdev 0.029
extra 0.09
7821.5100
mfhi1 39
mfhi2 39
stdev 0.027
extra 0.13
8399.1600
mfhi1 40
mfhi2 40
stdev 0.030
extra 0.16
8430.1700
mfhi1 38
mfhi2 38
stdev 0.027
extra 0.16
8885.8300
mfhi1 38
mfhi2 38
stdev 0.028
extra 0.13
8919.6100
mfhi1 38
mfhi2 38
stdev 0.025
extra 0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

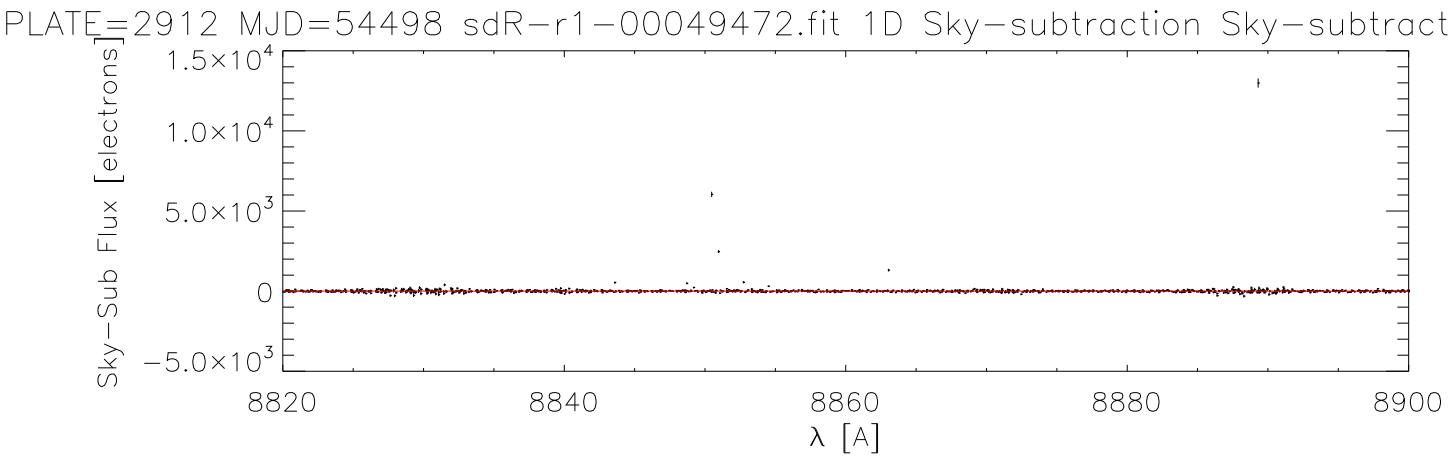

sky shift, pixels
0.22
0.20
0.18
0.16
0.14
0.12
0.10
5000
6000
7000
8000
9000
10000

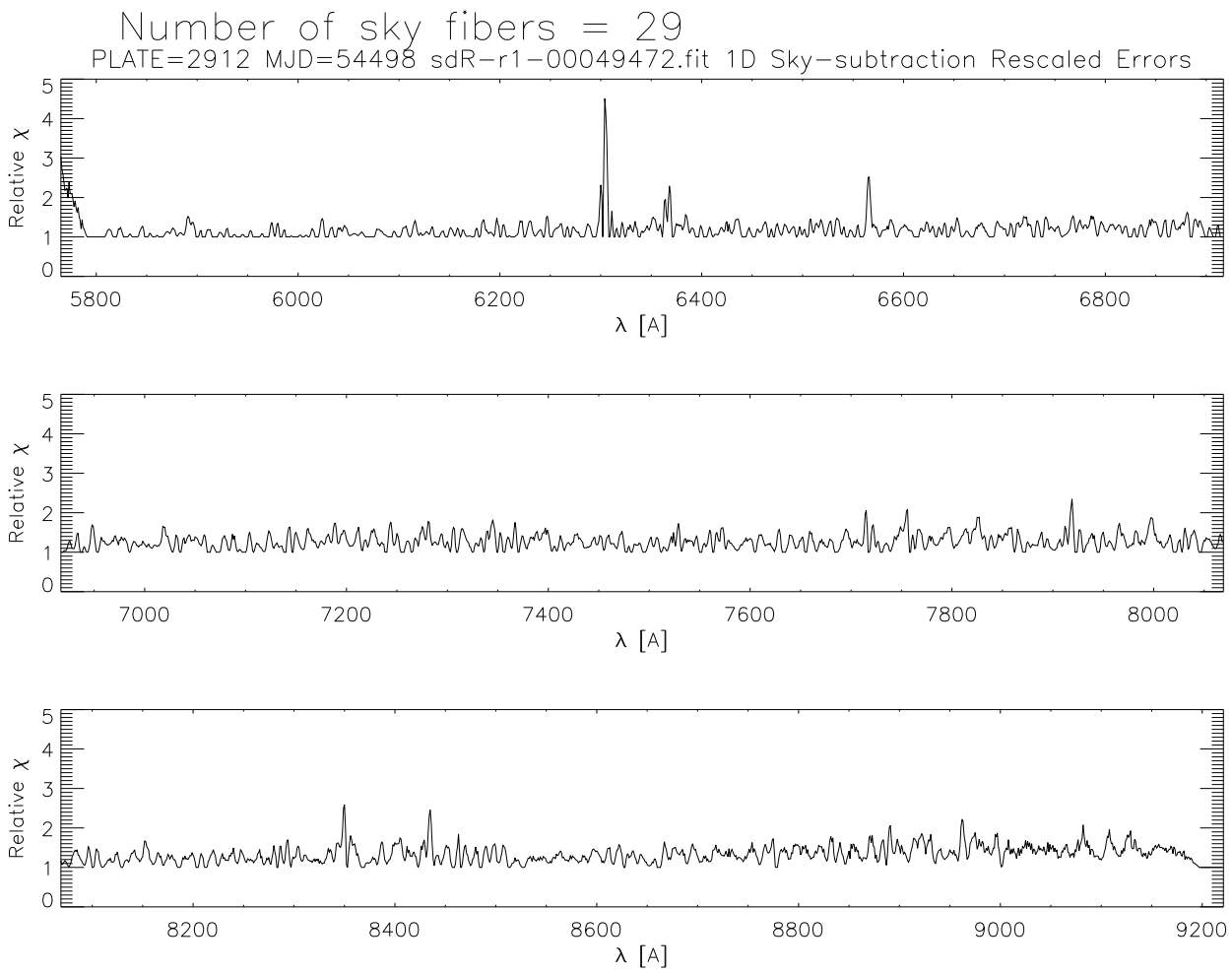
es= −0.0000

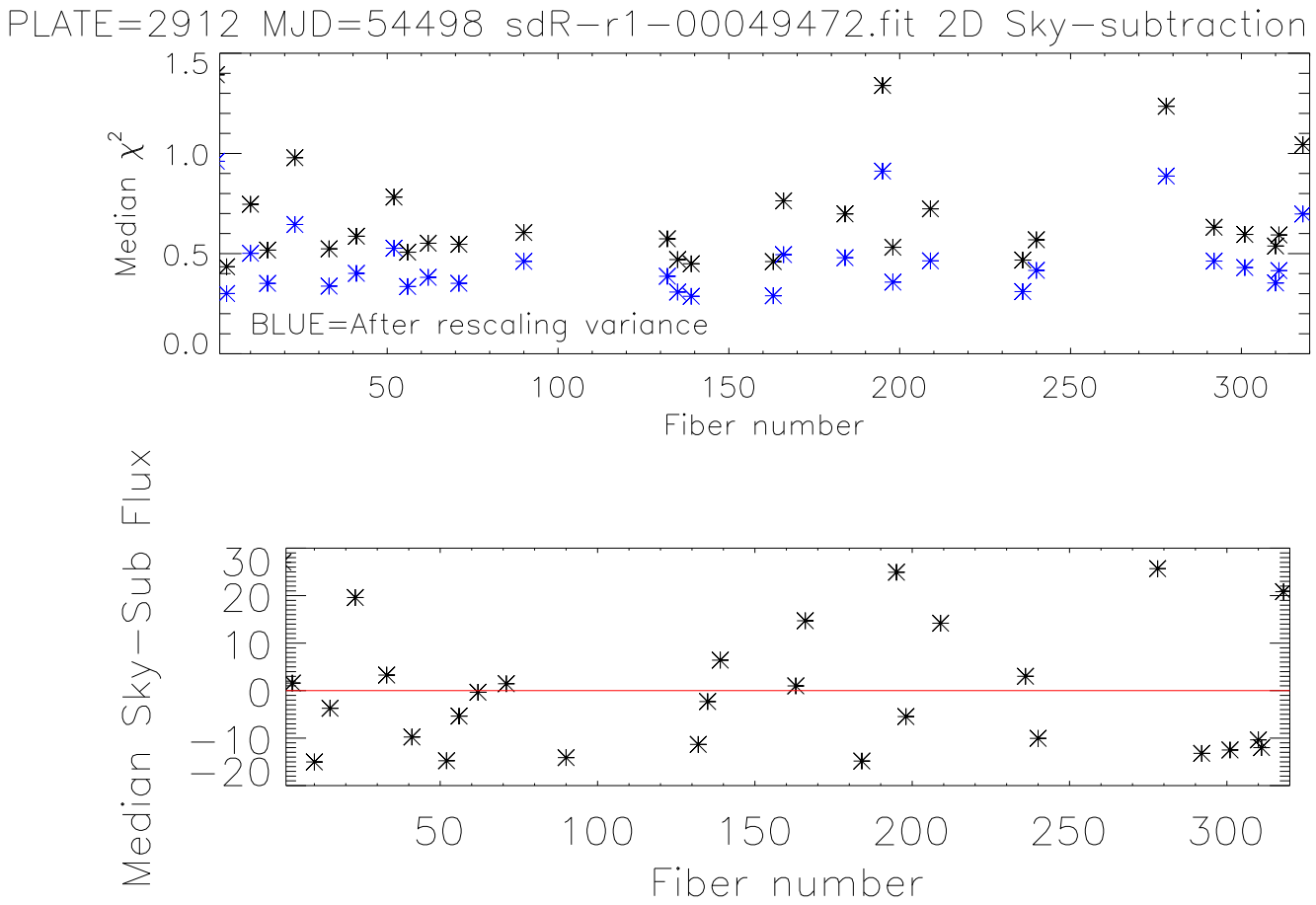

PLATE=2912 MJD=54498 Smooth superflat for sdR−r1−00049472.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

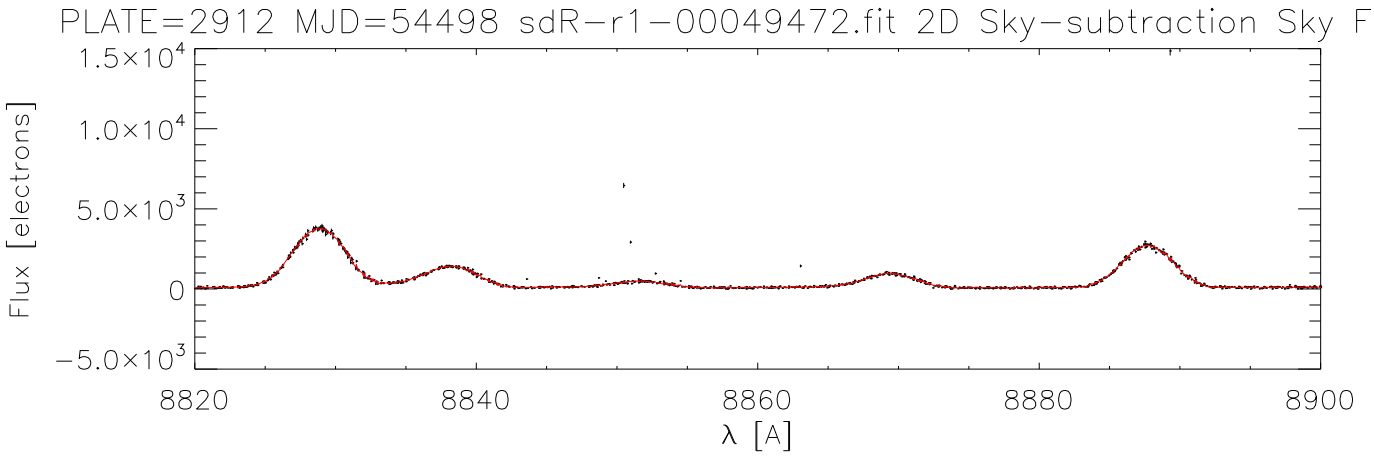

PLATE=2912 MJD=54498 sdR-r1-00049472.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
30
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

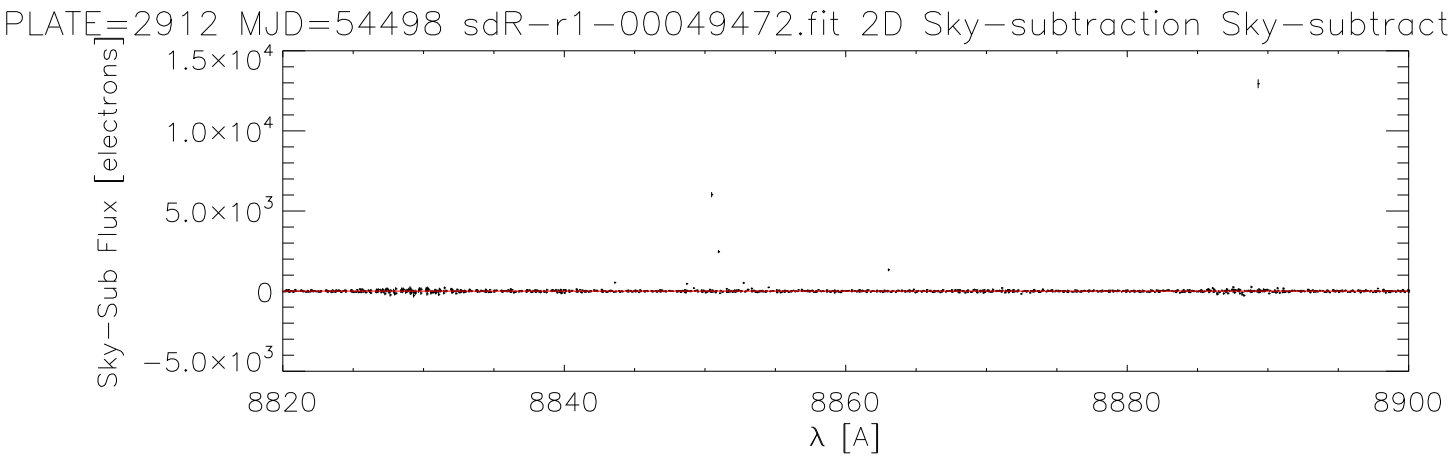

PLATE=2912 MJD=54498 sdR-r1-00049472.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

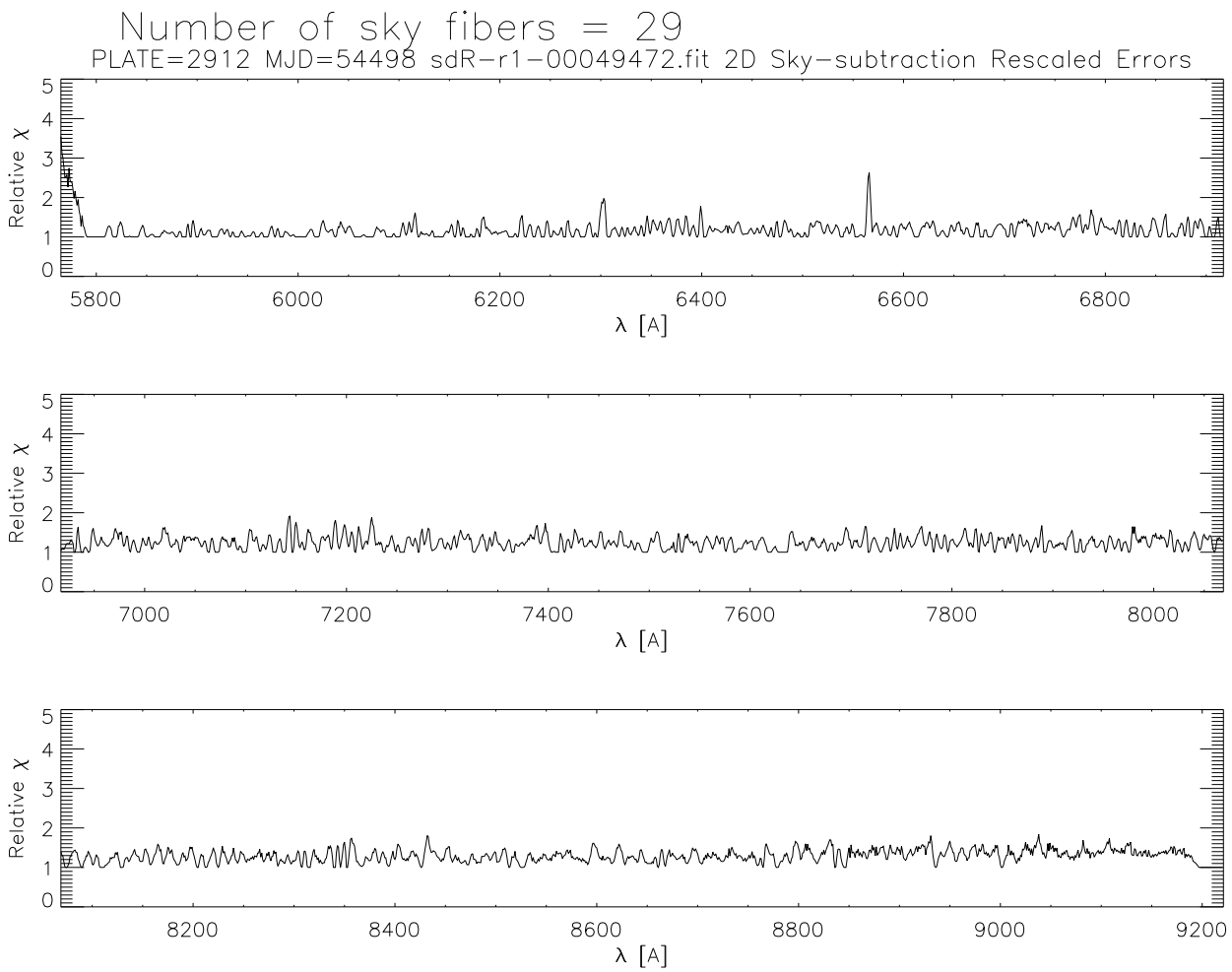

PLATE=2912 MJD=54498 sdR-r1-00049472.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

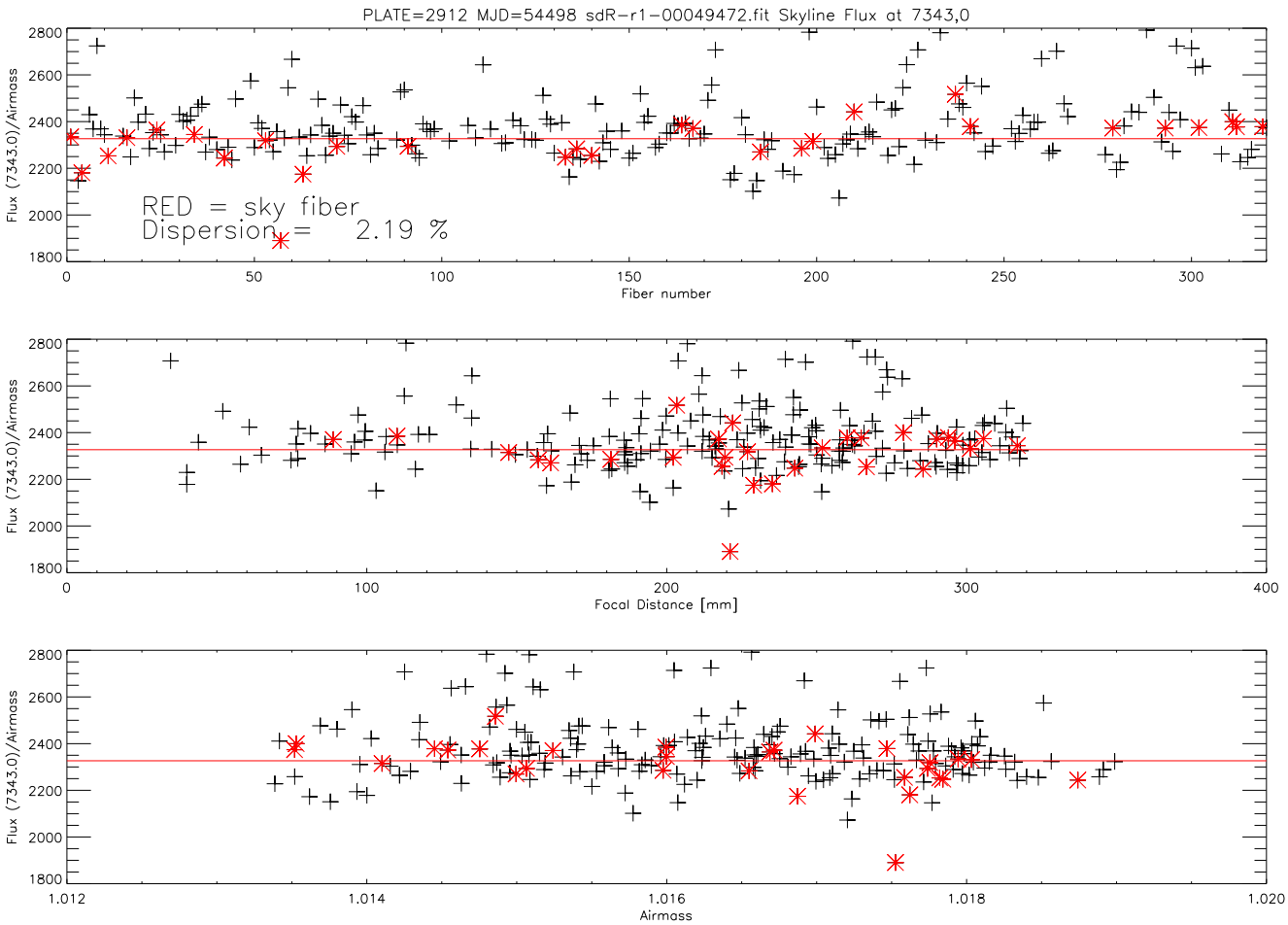

Number of sky fibers = 29
PLATE=2912 MJD=54498 sdR-r1-00049472.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

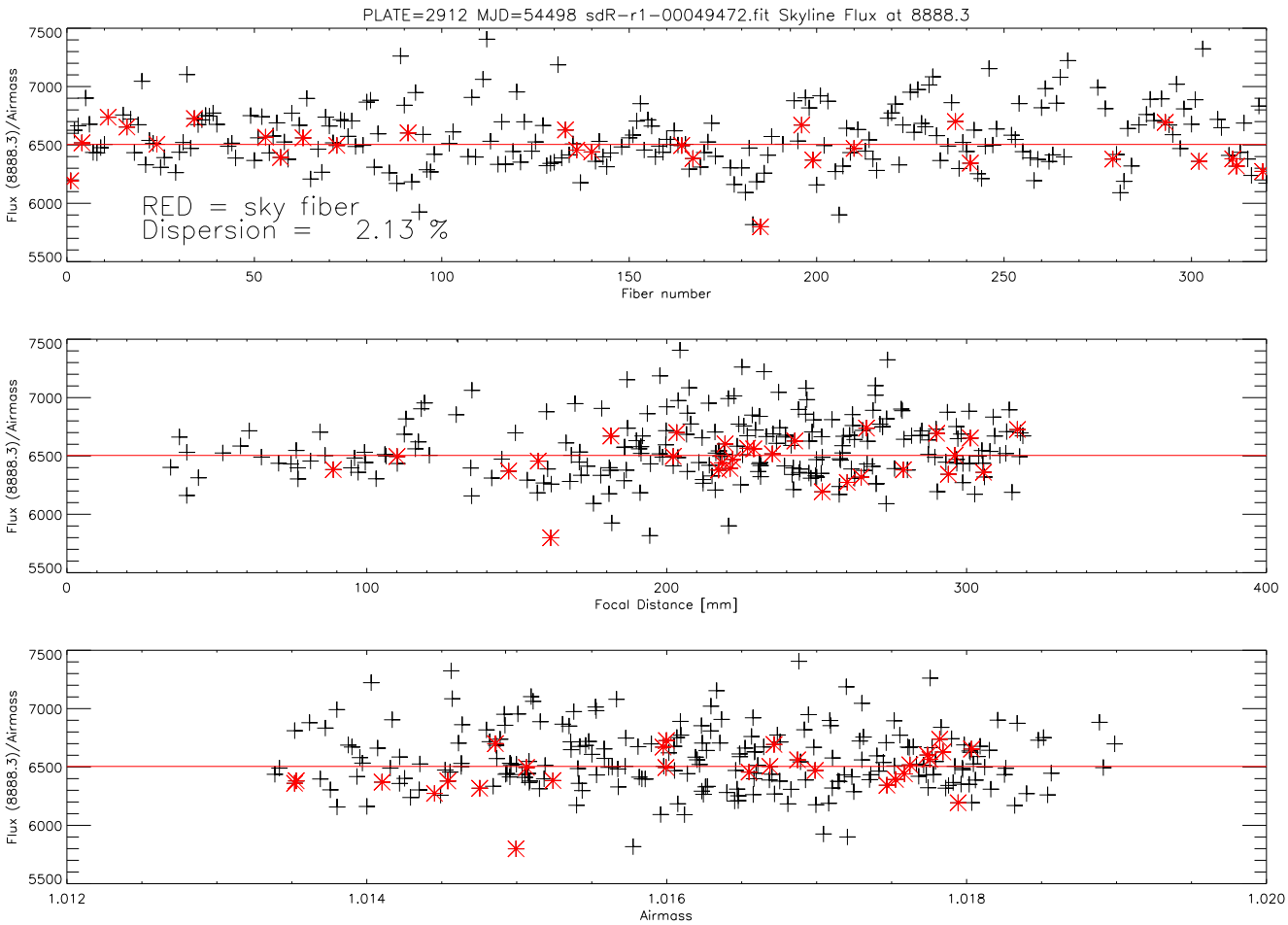

PLATE=2912 MJD=54498 sdR-r1-00049472.fit 2D Sky-subtraction Sky Fibers
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
30
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

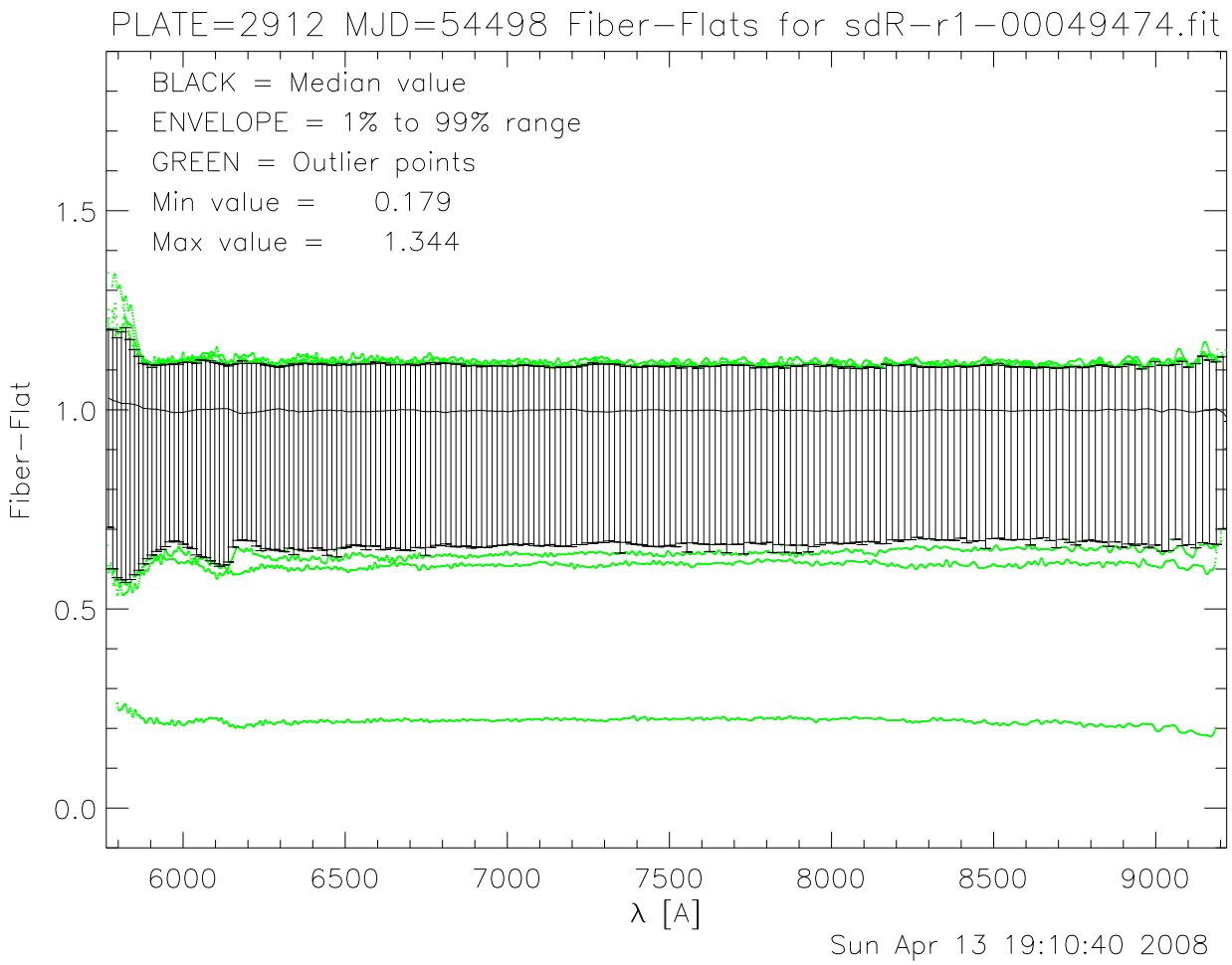

PLATE=2912 MJD=54498 sdR-r1-00049472.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

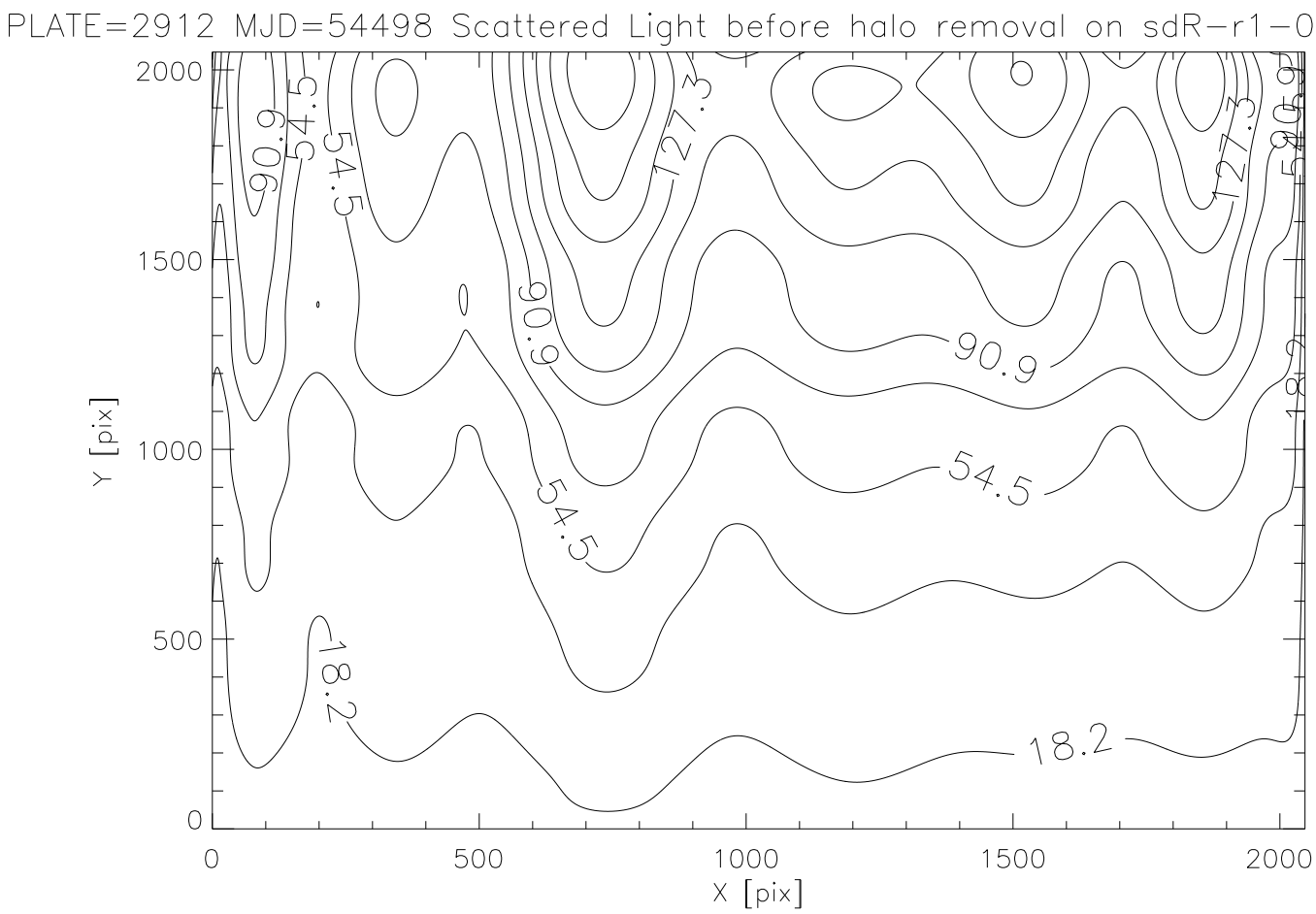

PLATE=2912 MJD=54498 sdR-r1-00049472.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

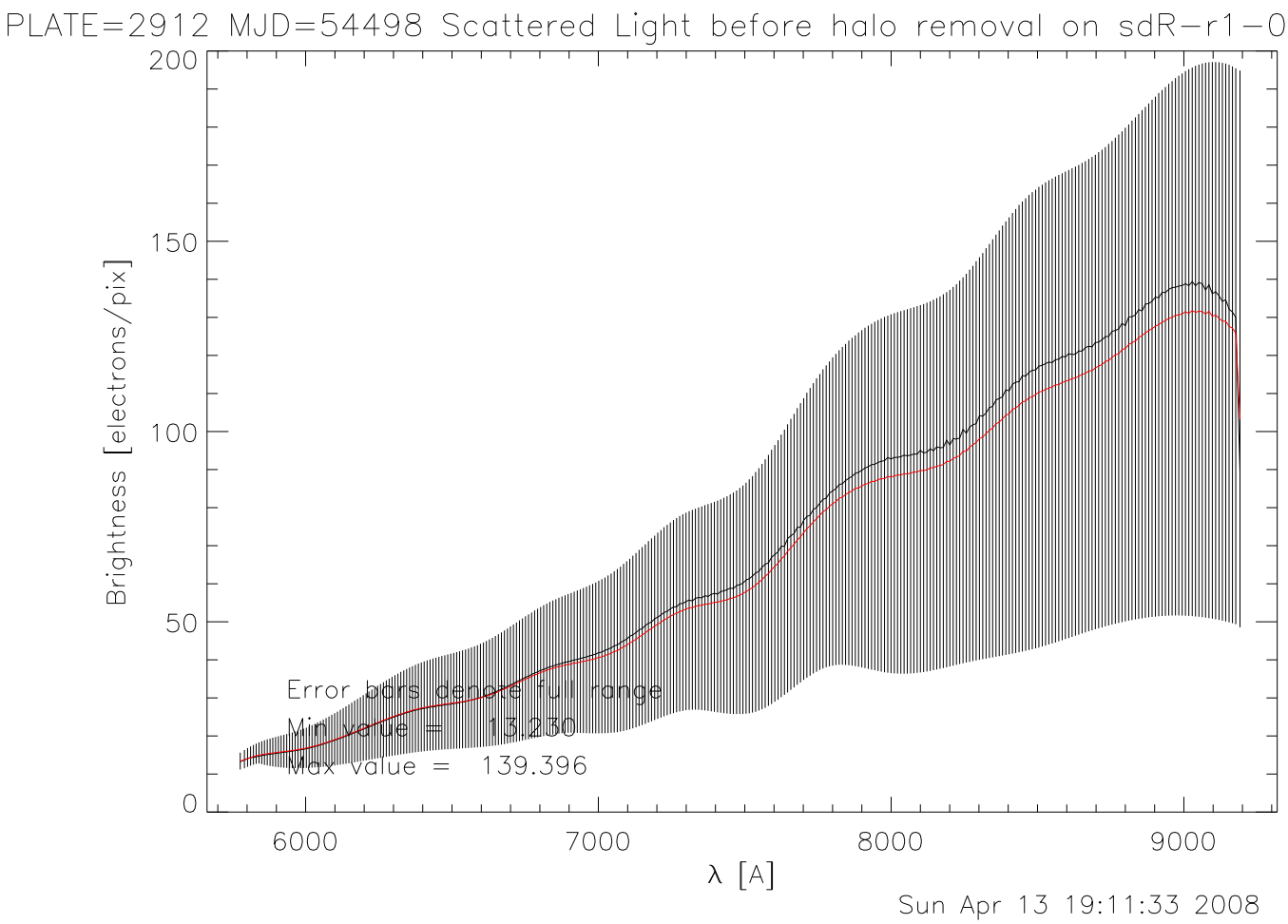

Number of sky fibers = 29
PLATE=2912 MJD=54498 sdR-r1-00049472.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

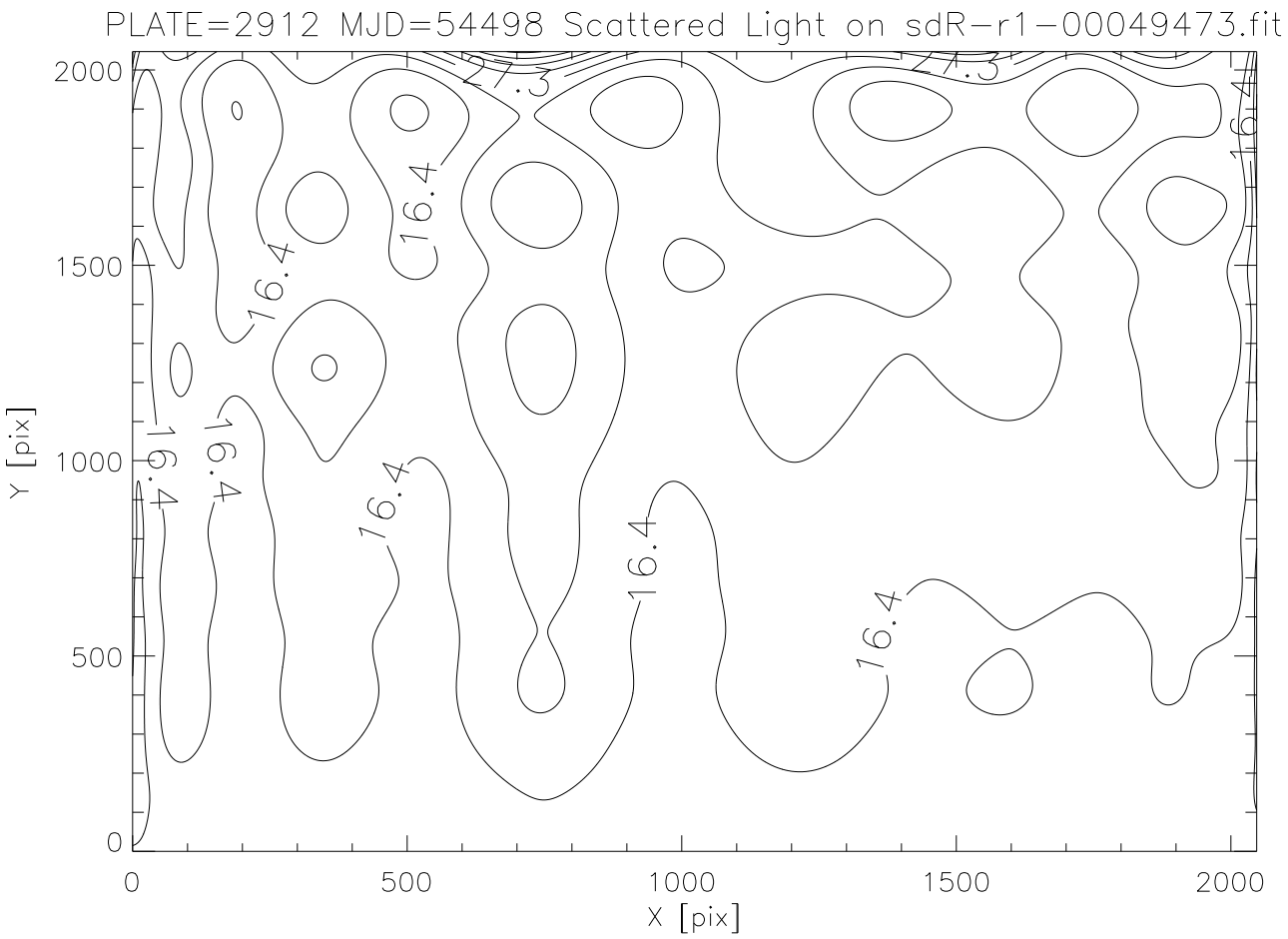

PLATE=2912 MJD=54498 sdR-r1-00049472.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion= 2.19 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

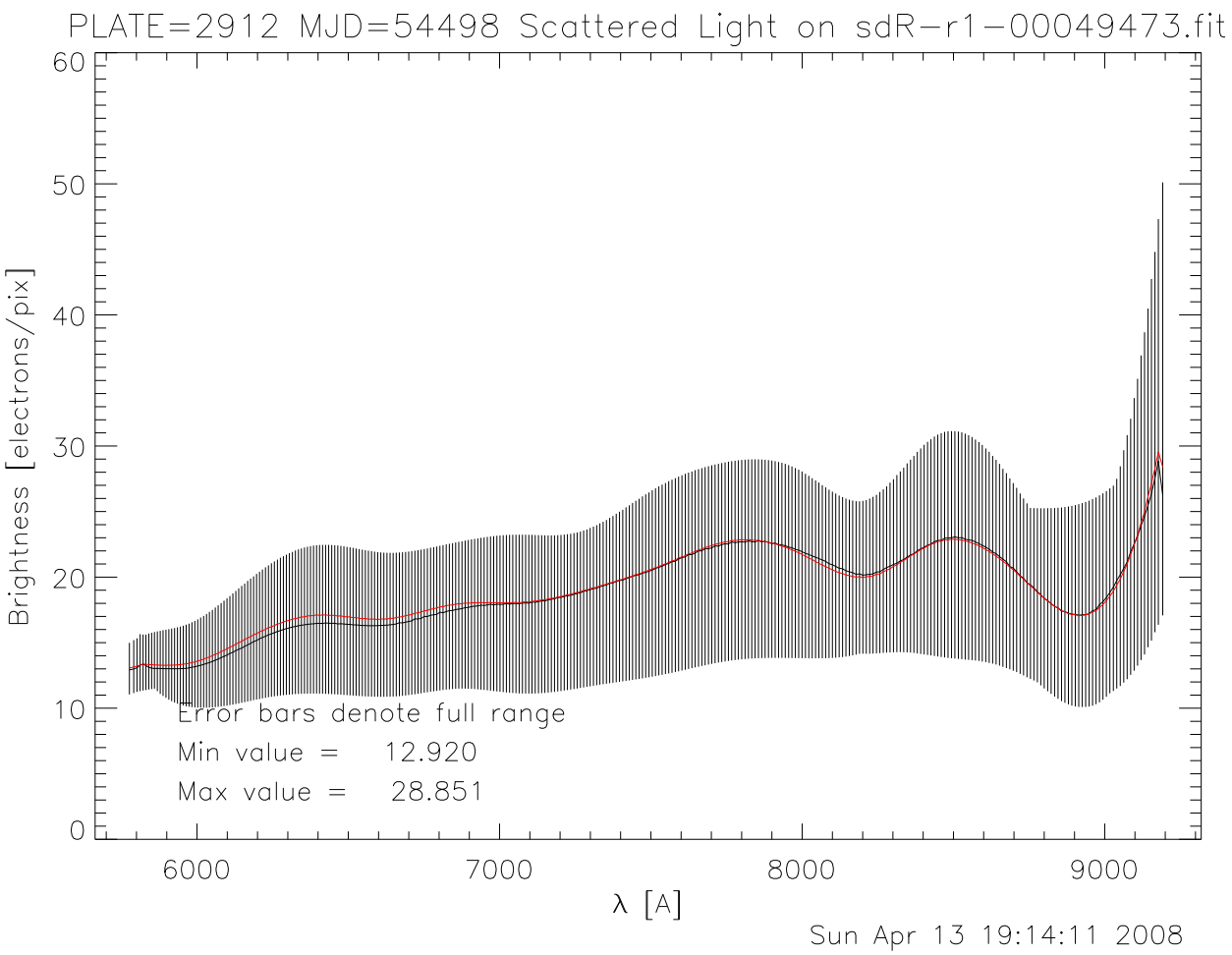

PLATE=2912 MJD=54498 sdR-r1-00049472.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.13 %
Fiber number
Focal Distance [mm]
Airmass

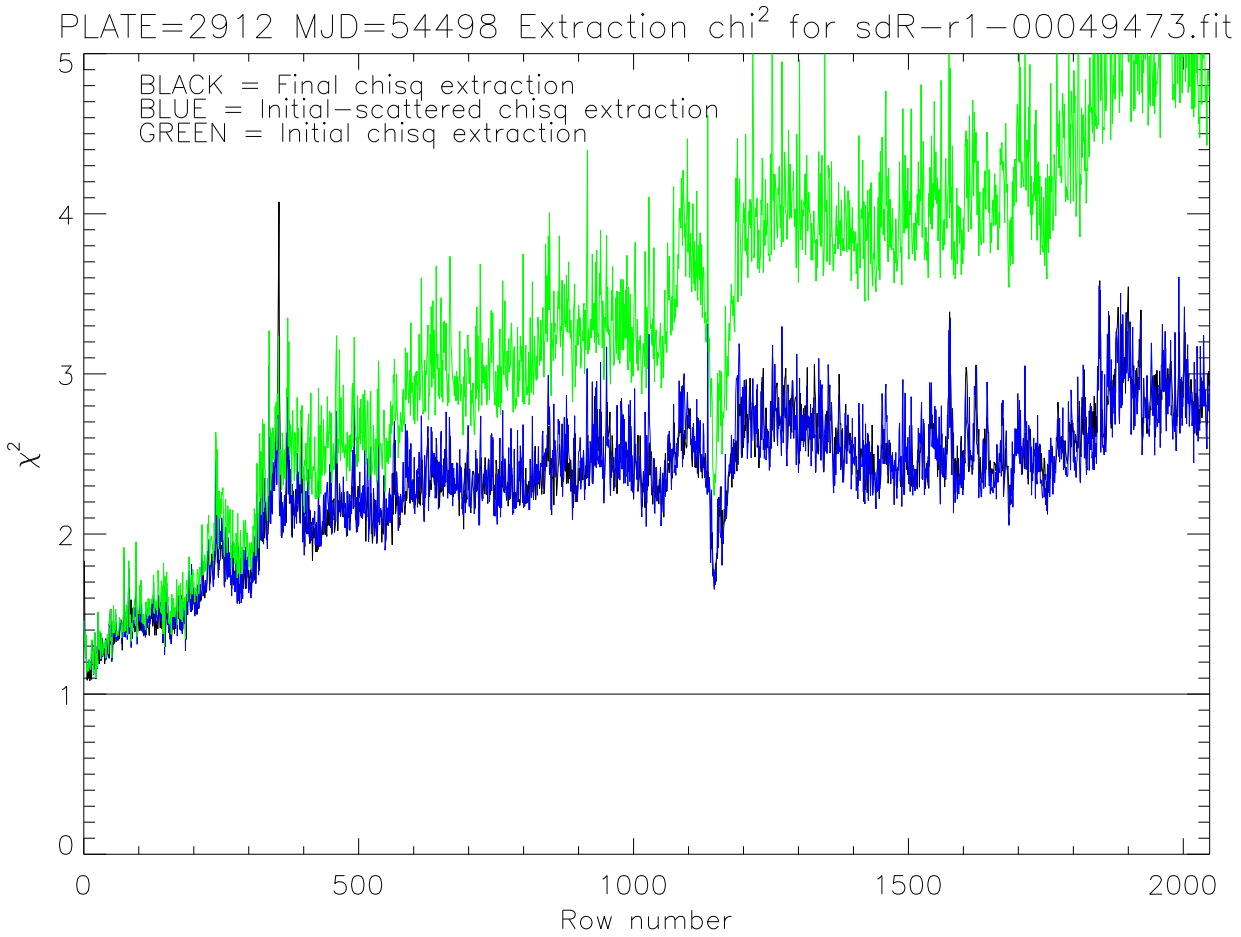

PLATE=2912 MJD=54498 Fiber-Flats for sdR-r1-00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.179
Max value = 1.344
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Apr 13 19:10:40 2008

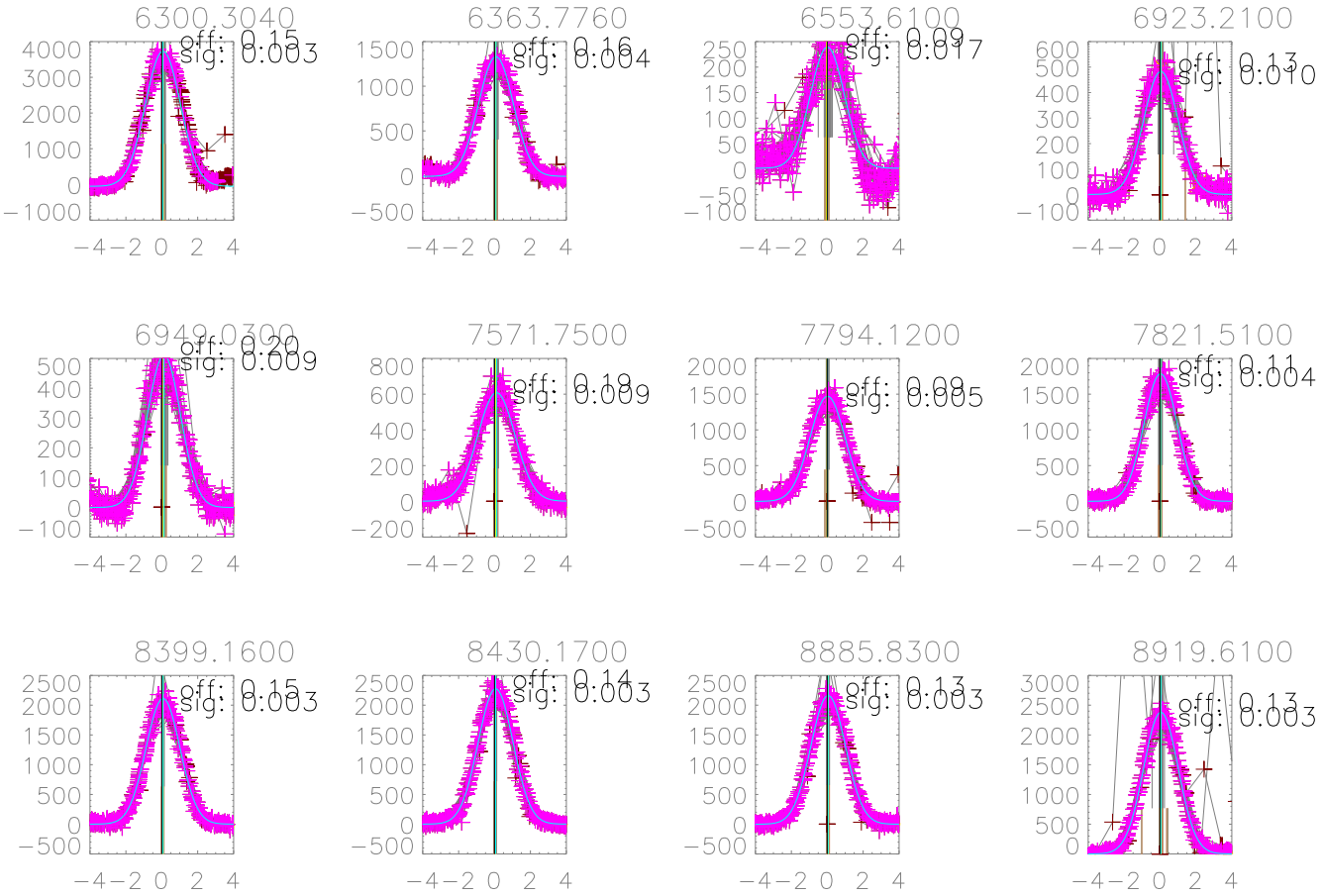

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r1-00049473.fi
Y [pix]
X [pix]
0
500
1000
1500
2000
90.9
54.5
127.3
18.2

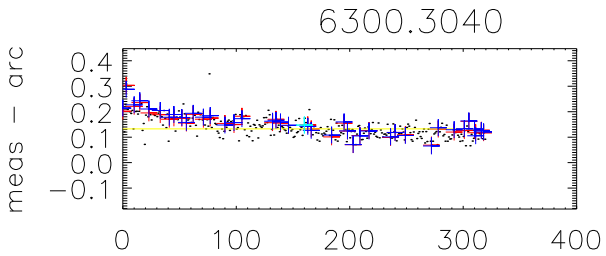

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r1-00049473.fi
200
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 13.230
Max value = 139.396
6000
7000
8000
9000
λ [A]
Sun Apr 13 19:11:33 2008

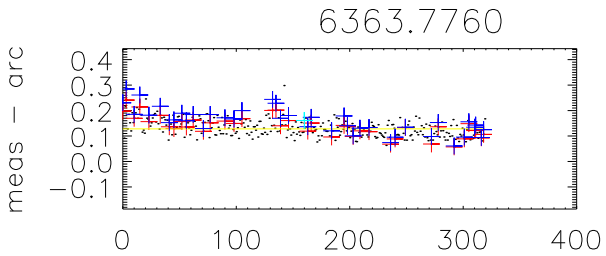

PLATE=2912 MJD=54498 Scattered Light on sdR-r1-00049473.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
16.4
27.3

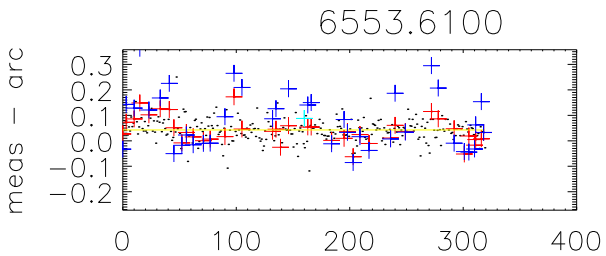

PLATE=2912 MJD=54498 Scattered Light on sdR-r1-00049473.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 12.920
Max value = 28.851
Sun Apr 13 19:14:11 2008

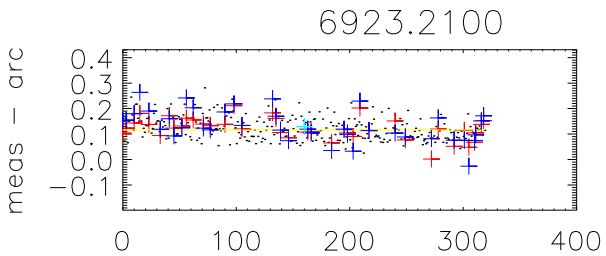

PLATE=2912 MJD=54498 Extraction chi^2 for sdR−r1−00049473.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
0
500
1000
1500
2000

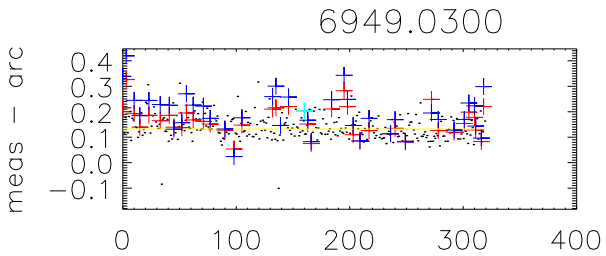

6300.3040
off: 0.15
sig: 0.003
6363.7760
off: 0.16
sig: 0.004
6553.6100
off: 0.09
sig: 0.017
6923.2100
off: 0.13
sig: 0.010
6949.0300
off: 0.20
sig: 0.009
7571.7500
off: 0.18
sig: 0.009
7794.1200
off: 0.08
sig: 0.005
7821.5100
off: 0.11
sig: 0.004
8399.1600
off: 0.15
sig: 0.003
8430.1700
off: 0.14
sig: 0.003
8885.8300
off: 0.13
sig: 0.003
8919.6100
off: 0.13
sig: 0.003

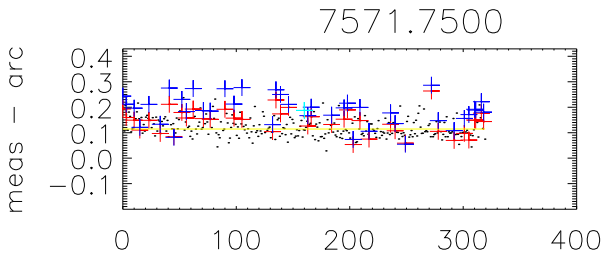

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

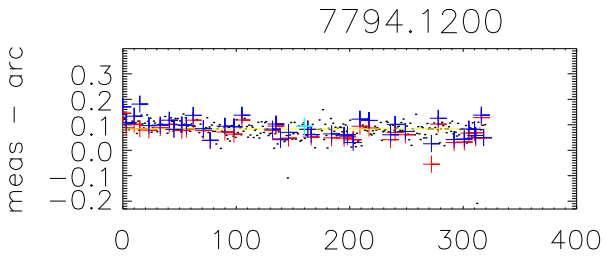

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

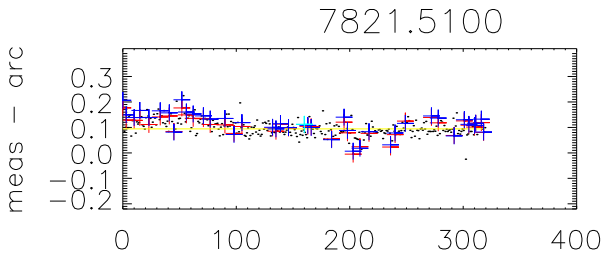

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

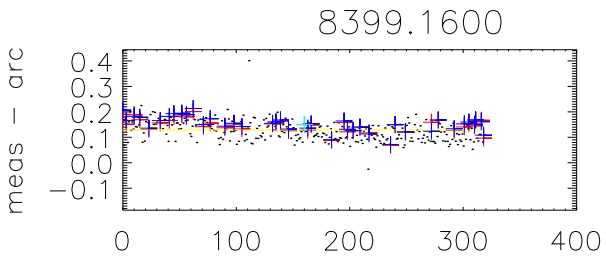

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

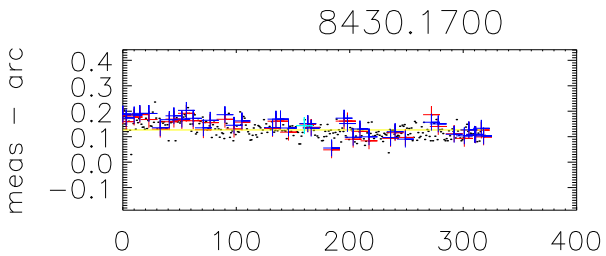

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

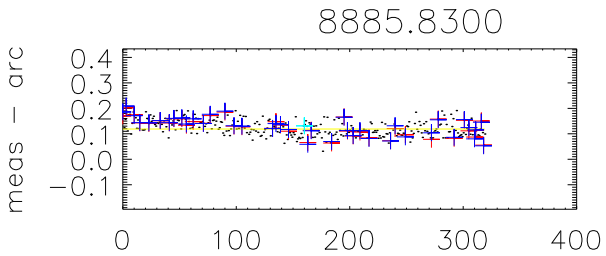

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

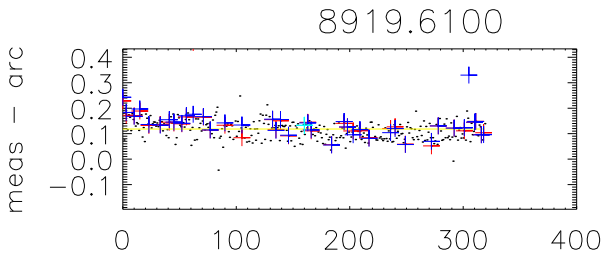

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

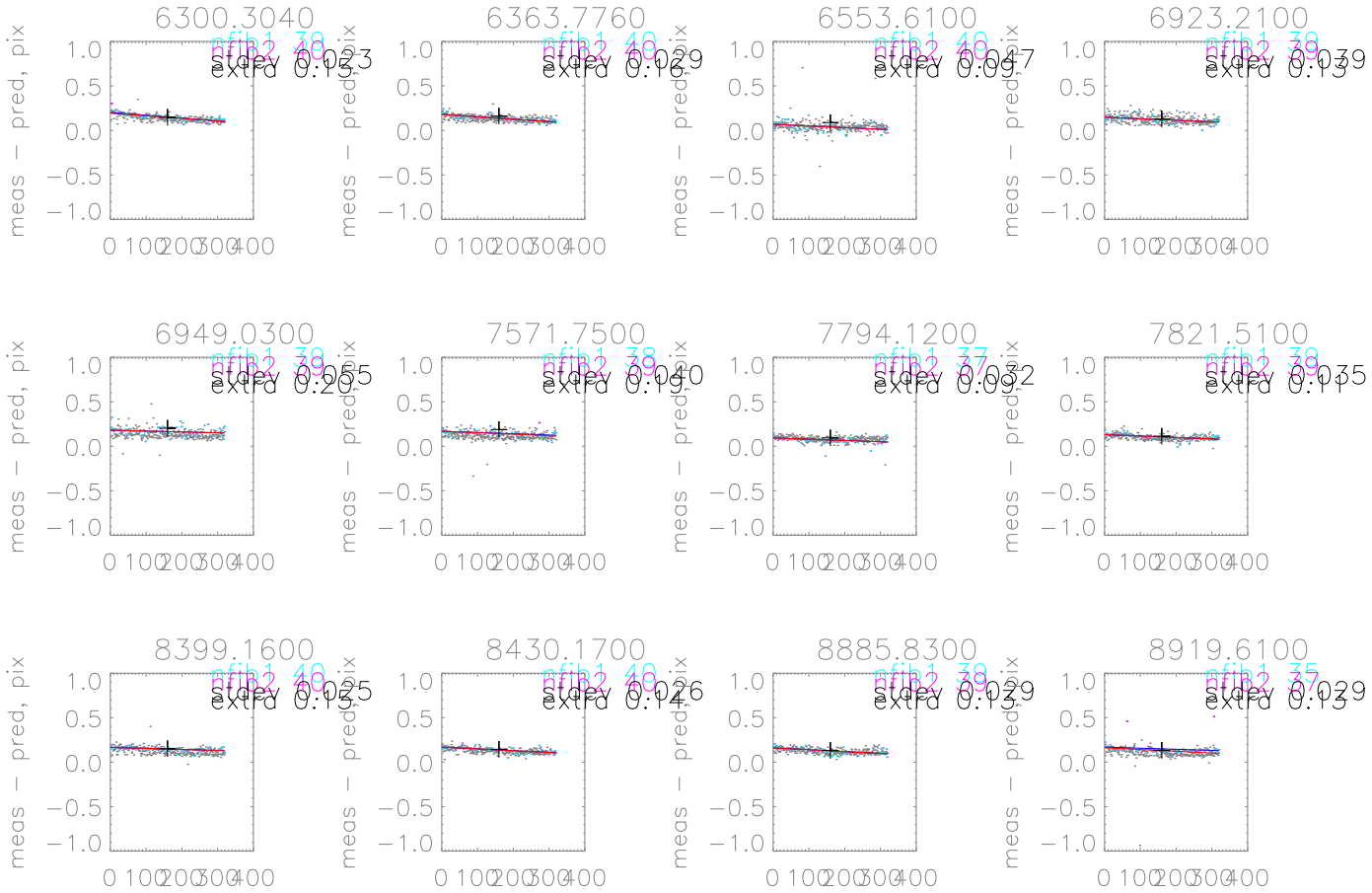

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

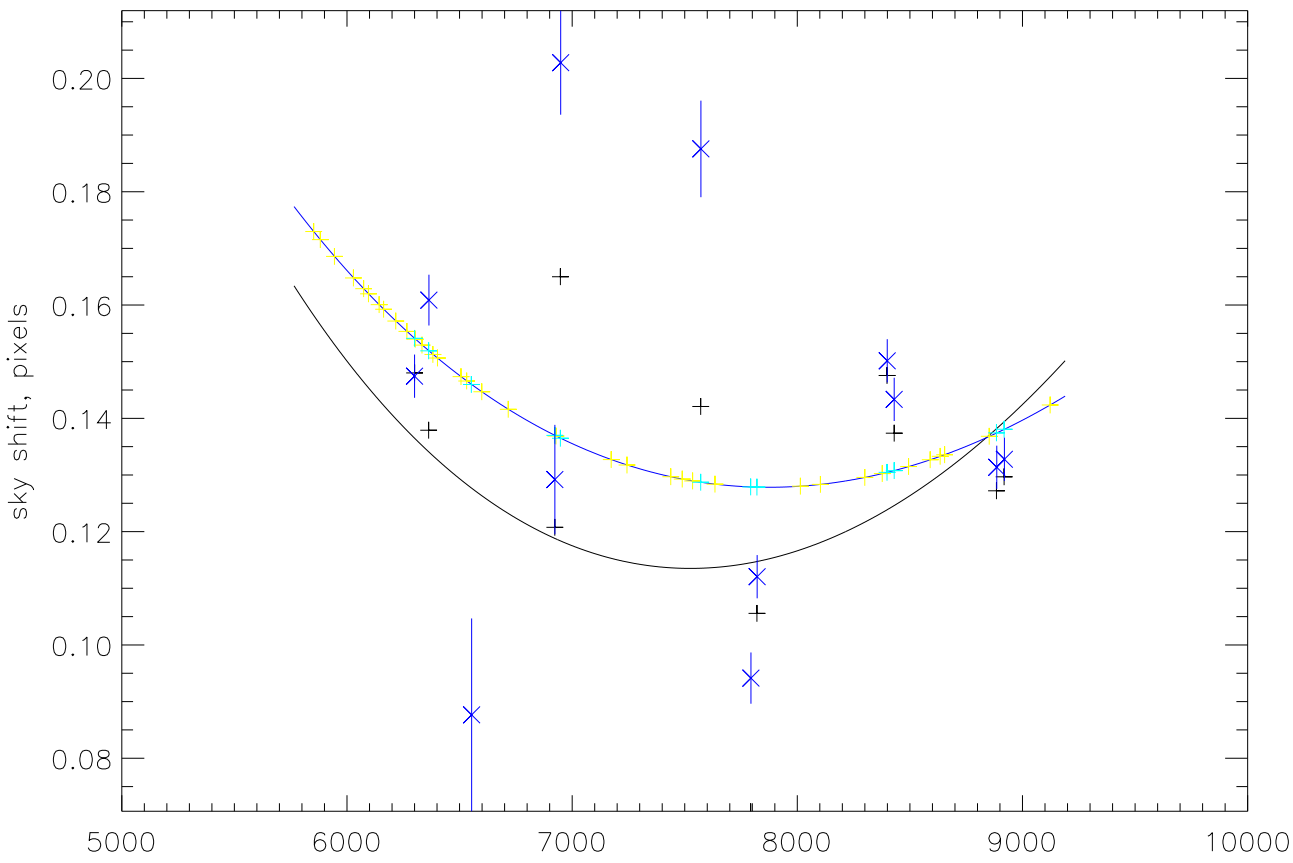

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

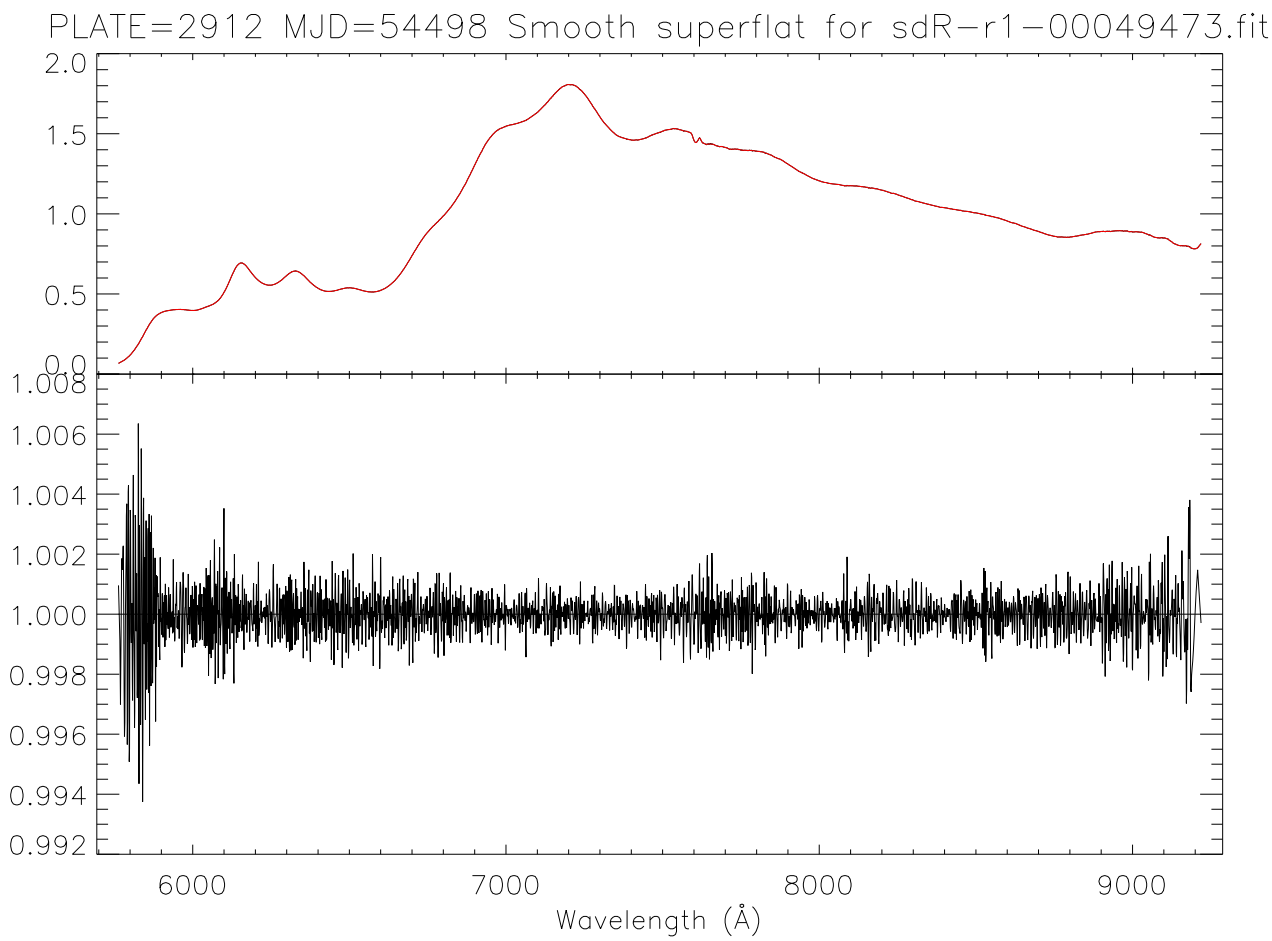

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

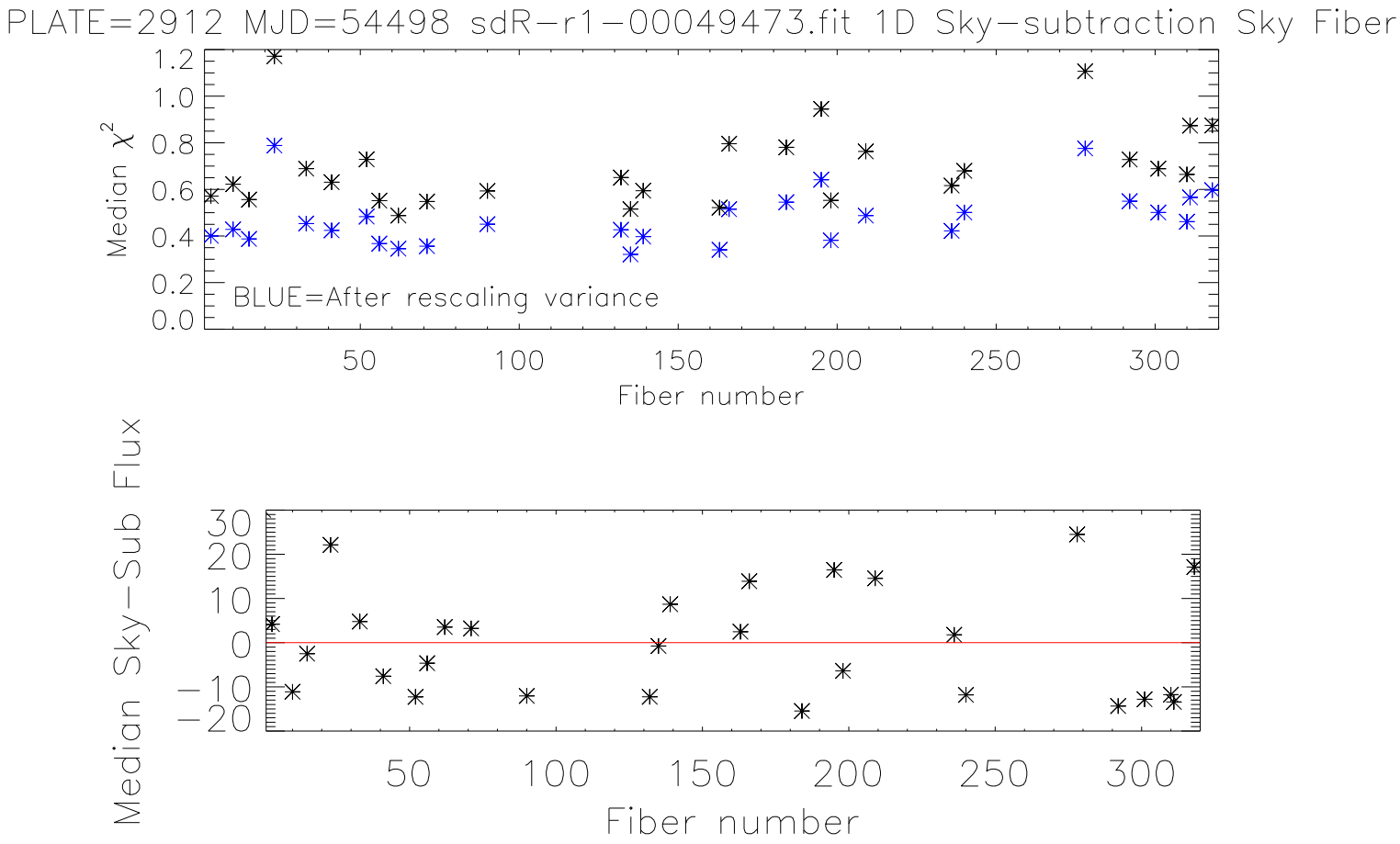

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

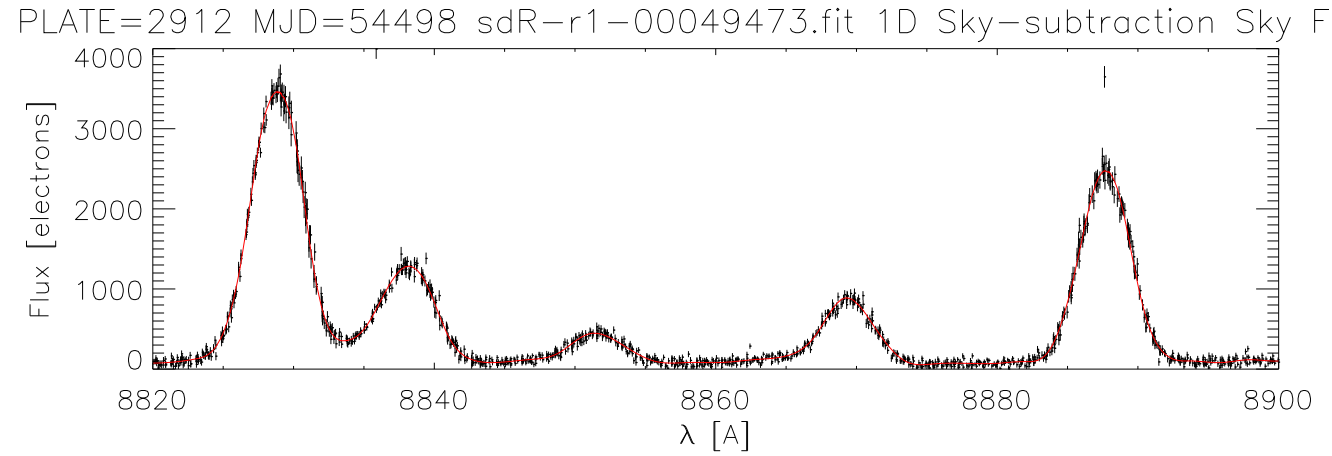

6300.3040
mfib1 40
mfib2 40
stdev 0.023
extra 0.13
6363.7760
mfib1 40
mfib2 40
stdev 0.029
extra 0.16
6553.6100
mfib1 40
mfib2 40
stdev 0.047
extra 0.09
6923.2100
mfib1 38
mfib2 38
stdev 0.039
extra 0.13
6949.0300
mfib1 38
mfib2 38
stdev 0.055
extra 0.20
7571.7500
mfib1 38
mfib2 38
stdev 0.040
extra 0.19
7794.1200
mfib1 37
mfib2 37
stdev 0.032
extra 0.09
7821.5100
mfib1 38
mfib2 38
stdev 0.035
extra 0.11
8399.1600
mfib1 40
mfib2 40
stdev 0.025
extra 0.13
8430.1700
mfib1 40
mfib2 40
stdev 0.026
extra 0.14
8885.8300
mfib1 39
mfib2 39
stdev 0.029
extra 0.13
8919.6100
mfib1 35
mfib2 37
stdev 0.029
extra 0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

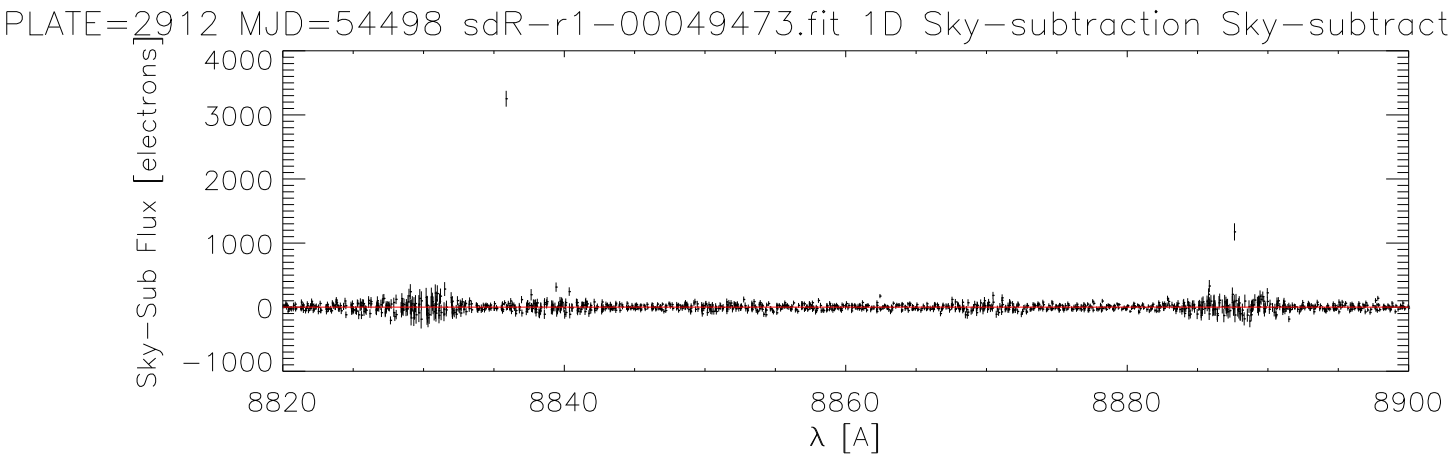

sky shift, pixels
0.20
0.18
0.16
0.14
0.12
0.10
0.08
5000
6000
7000
8000
9000
10000

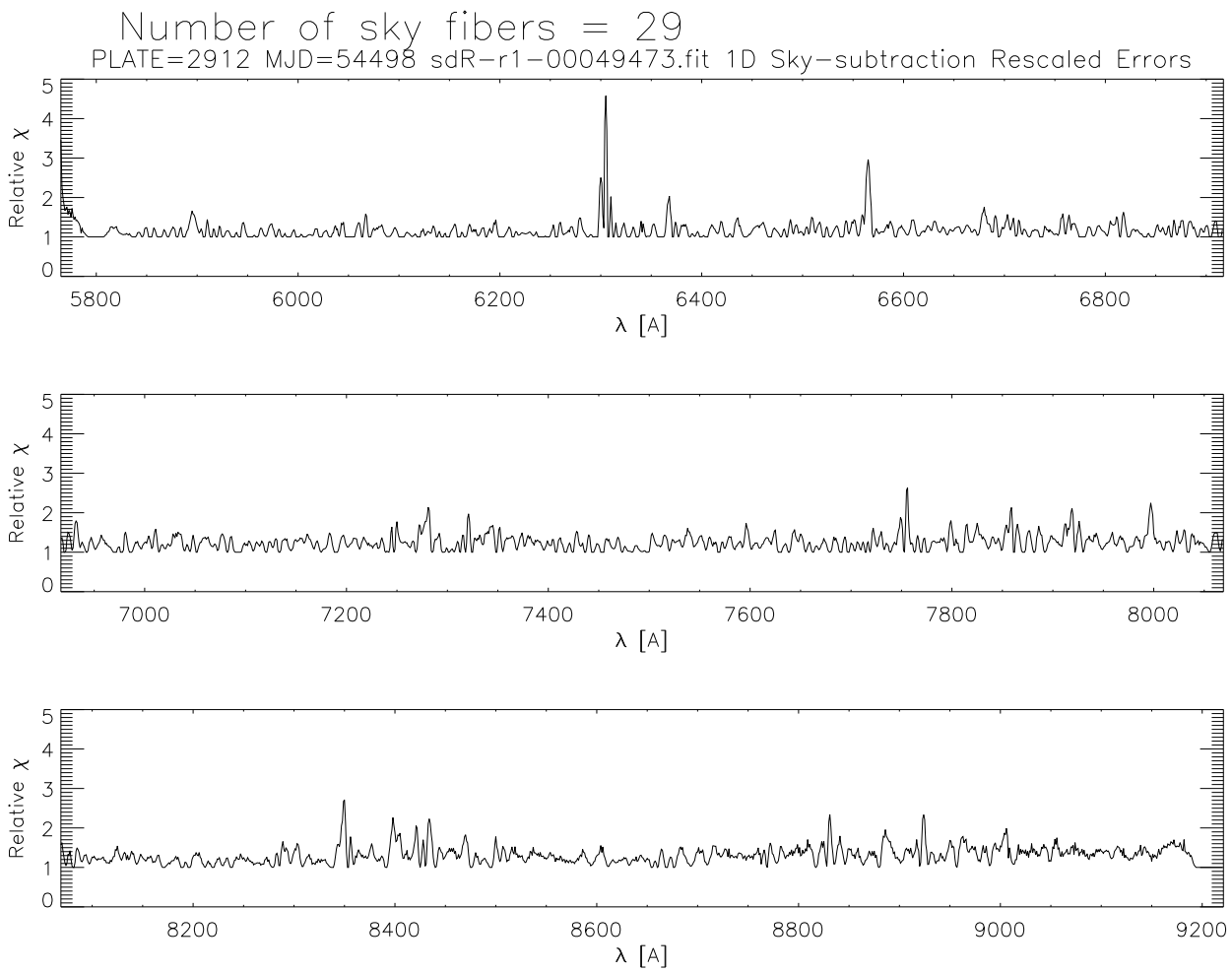
es= 0.0000

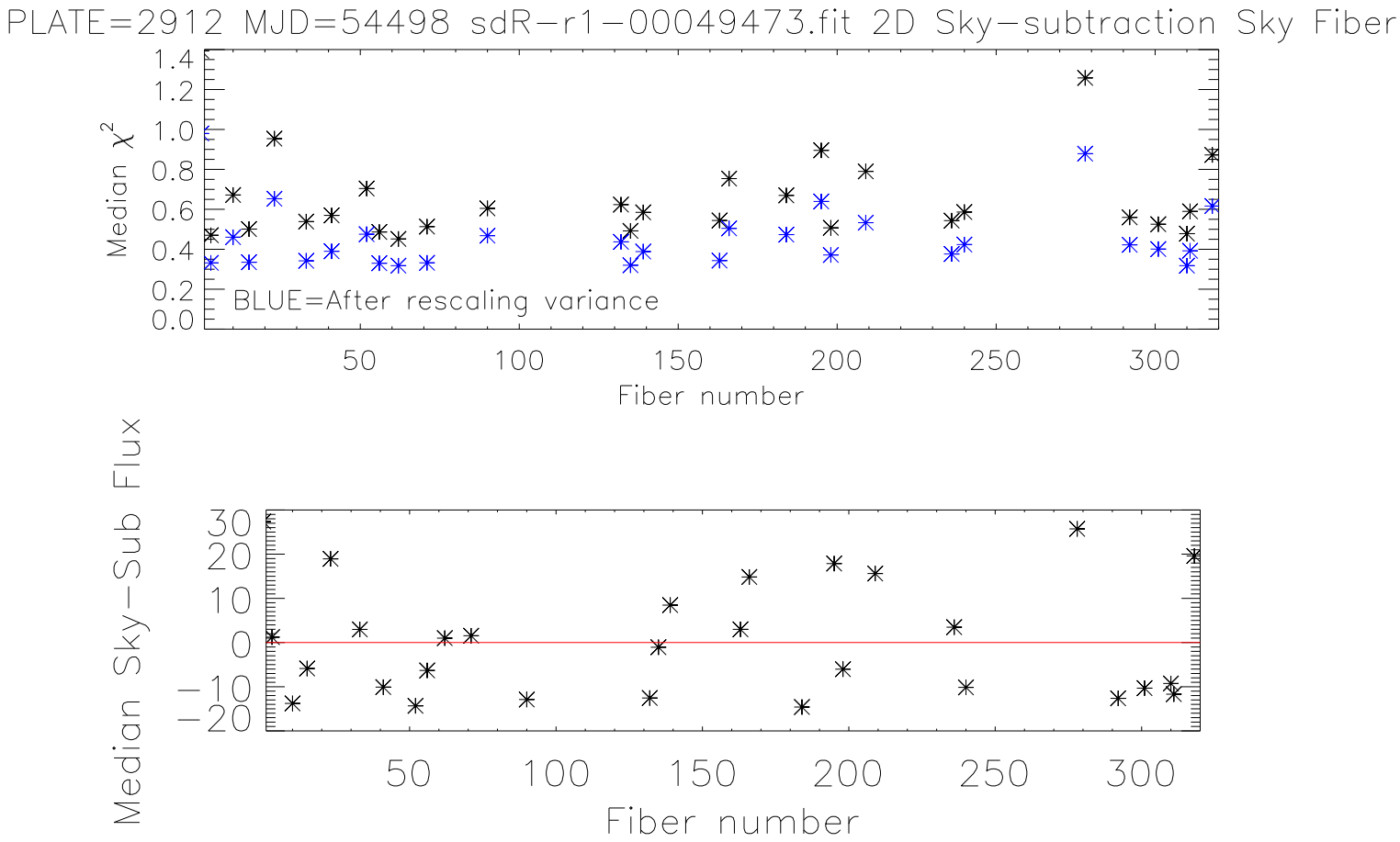

PLATE=2912 MJD=54498 Smooth superflat for sdR-r1-00049473.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

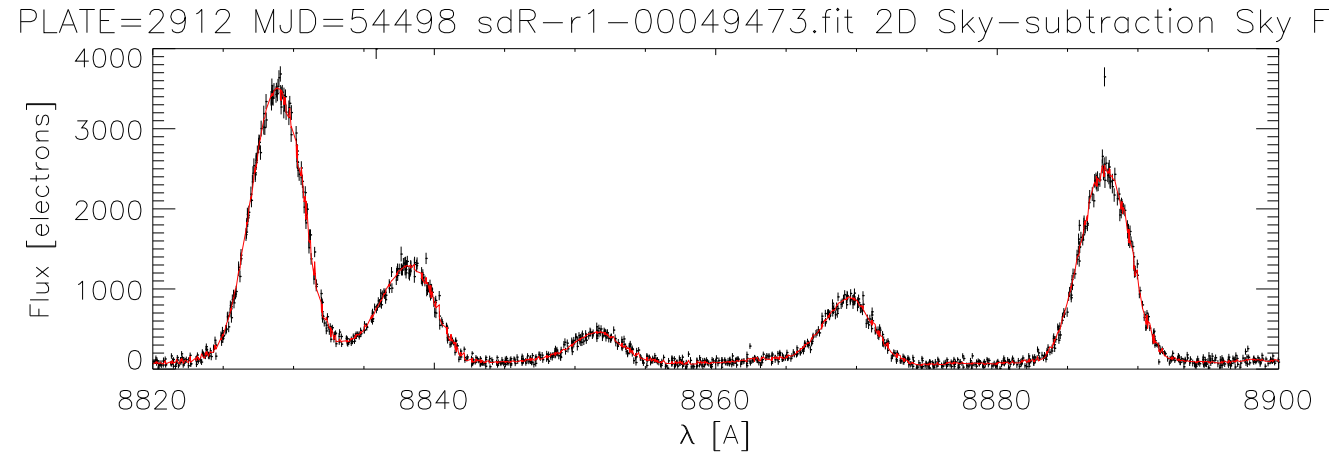

PLATE=2912 MJD=54498 sdR-r1-00049473.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
30
20
10
0
−10
−20
50
100
150
200
250
300
Fiber number

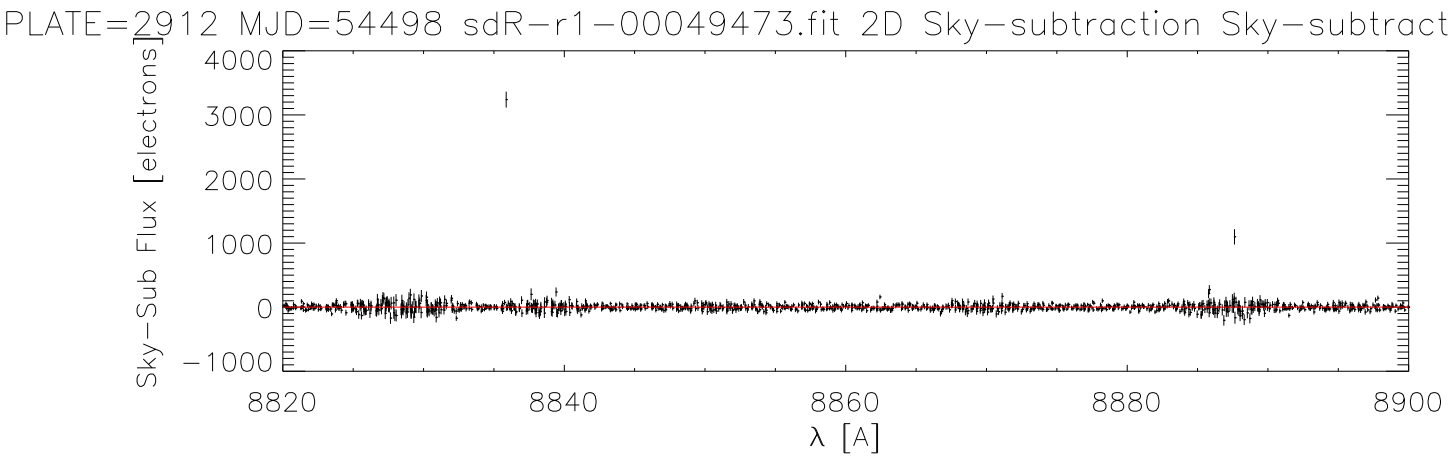

PLATE=2912 MJD=54498 sdR-r1-00049473.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

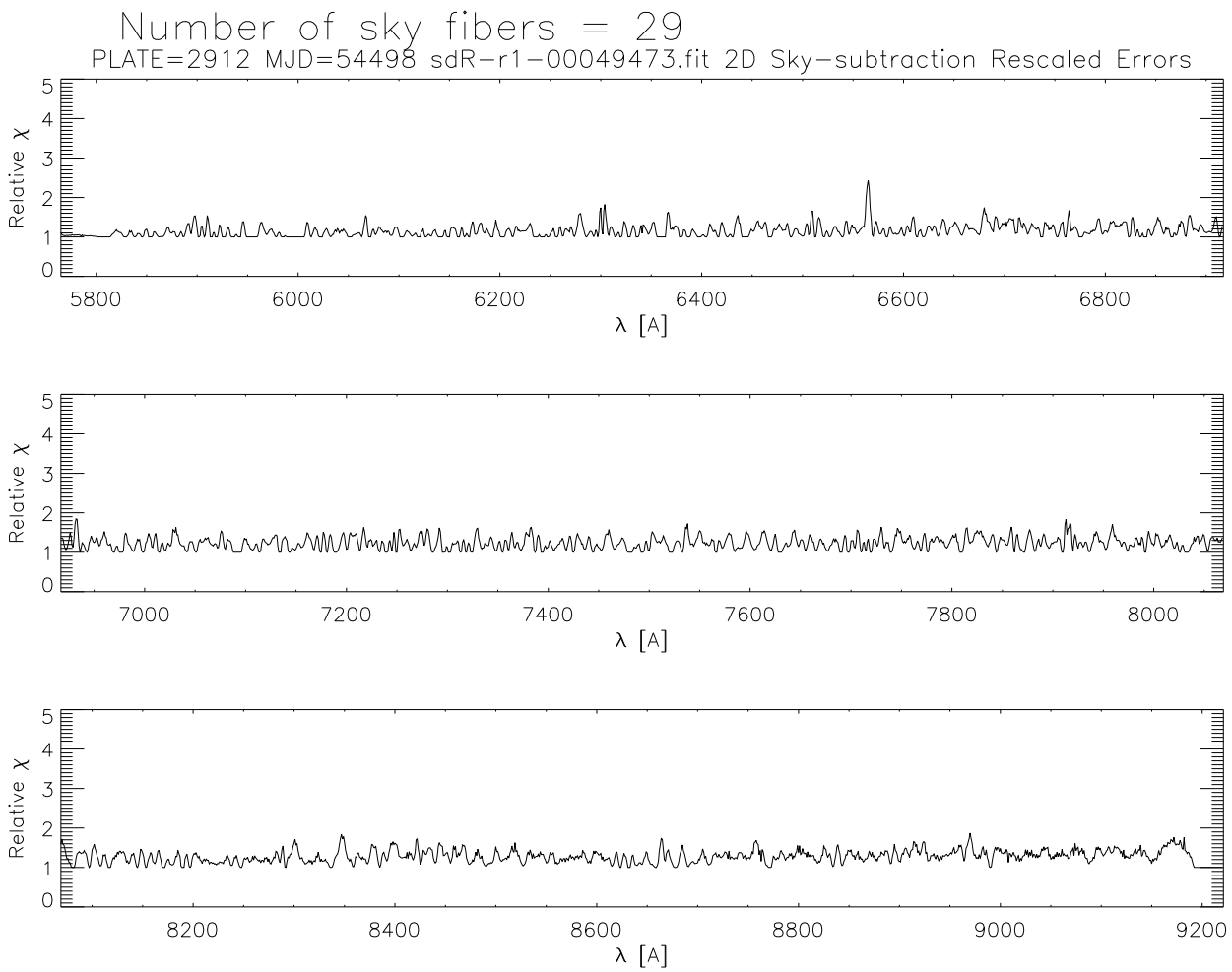

PLATE=2912 MJD=54498 sdR-r1-00049473.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

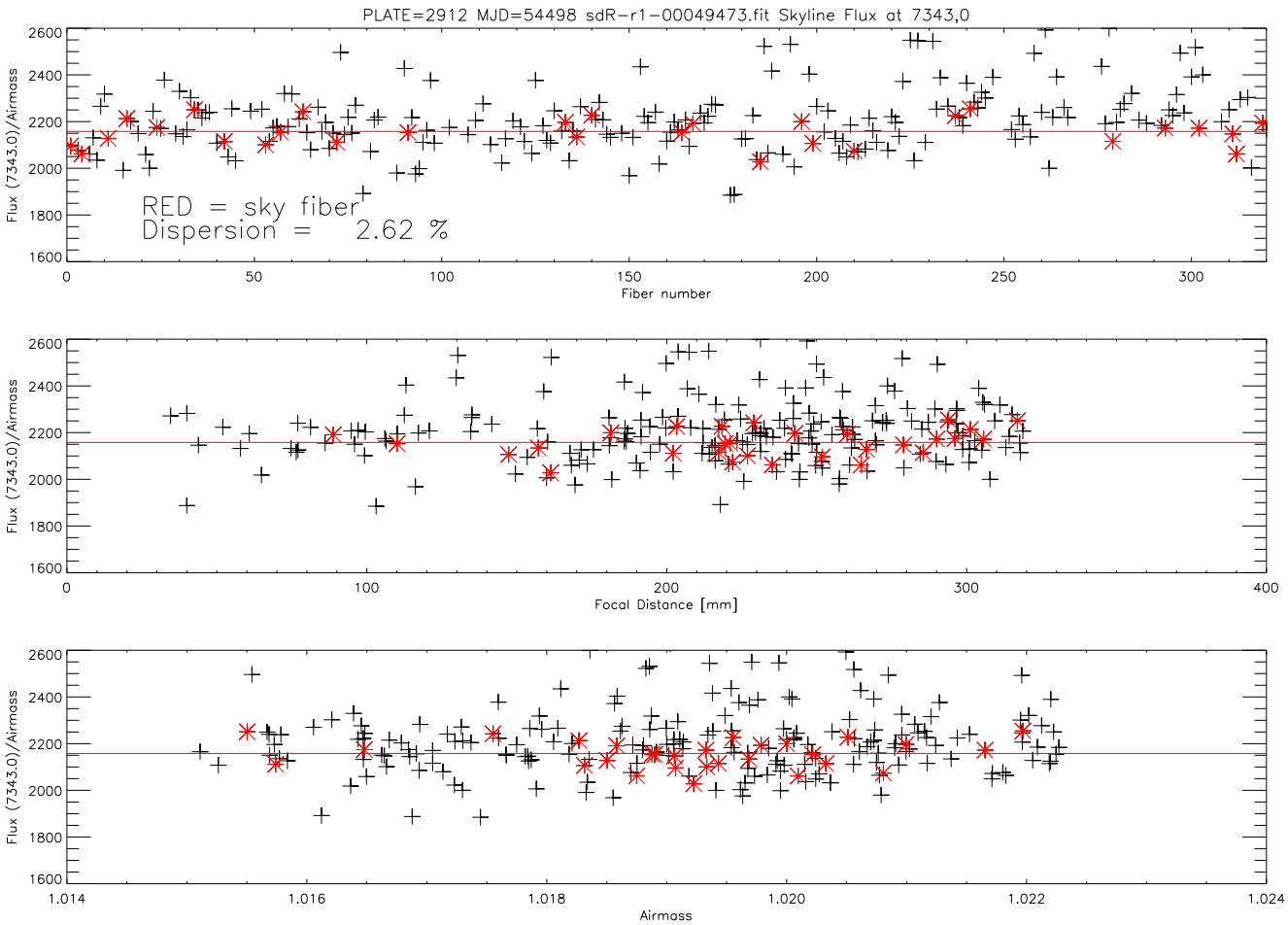

Number of sky fibers = 29
PLATE=2912 MJD=54498 sdR-r1-00049473.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

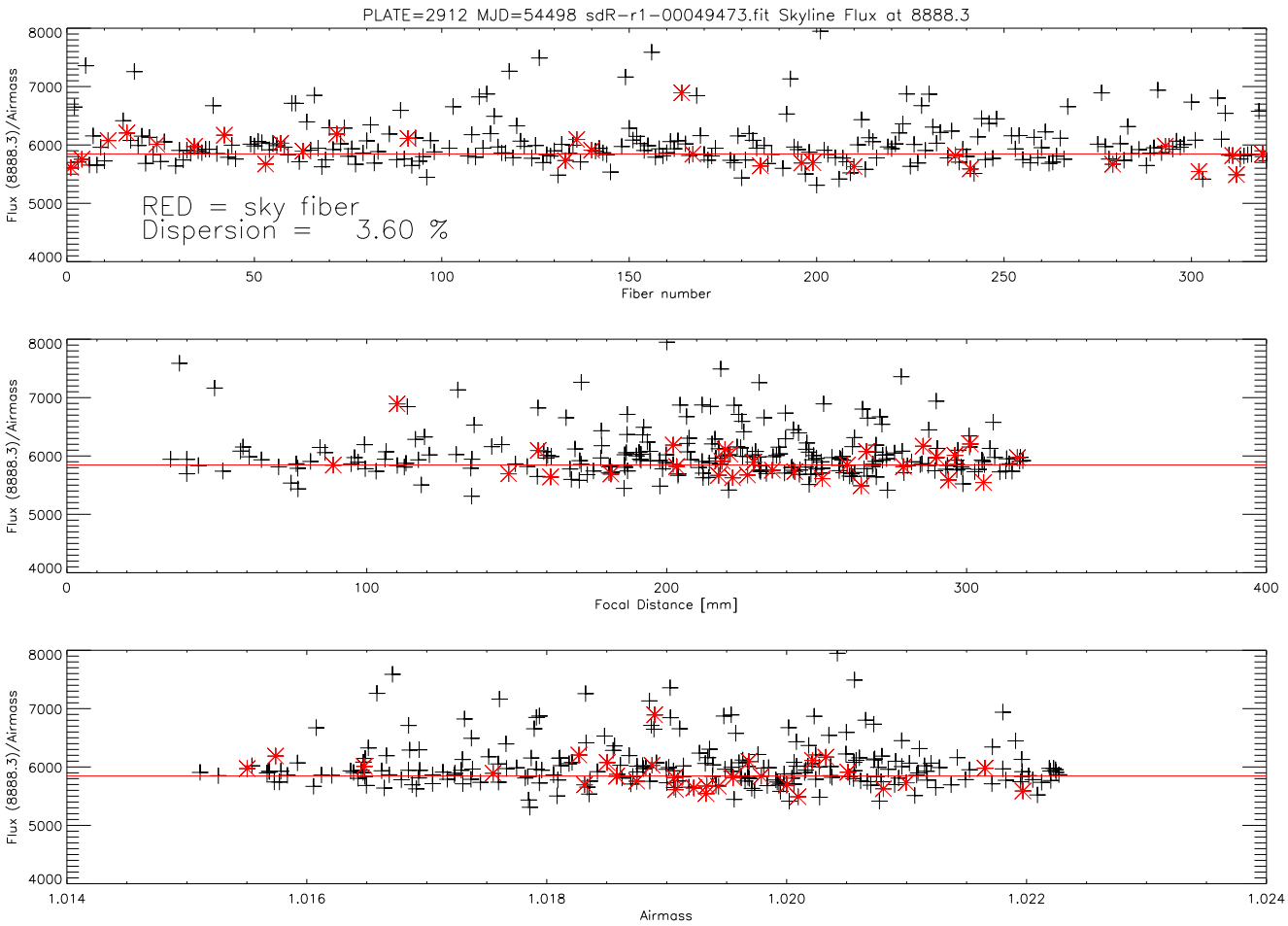

PLATE=2912 MJD=54498 sdR-r1-00049473.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

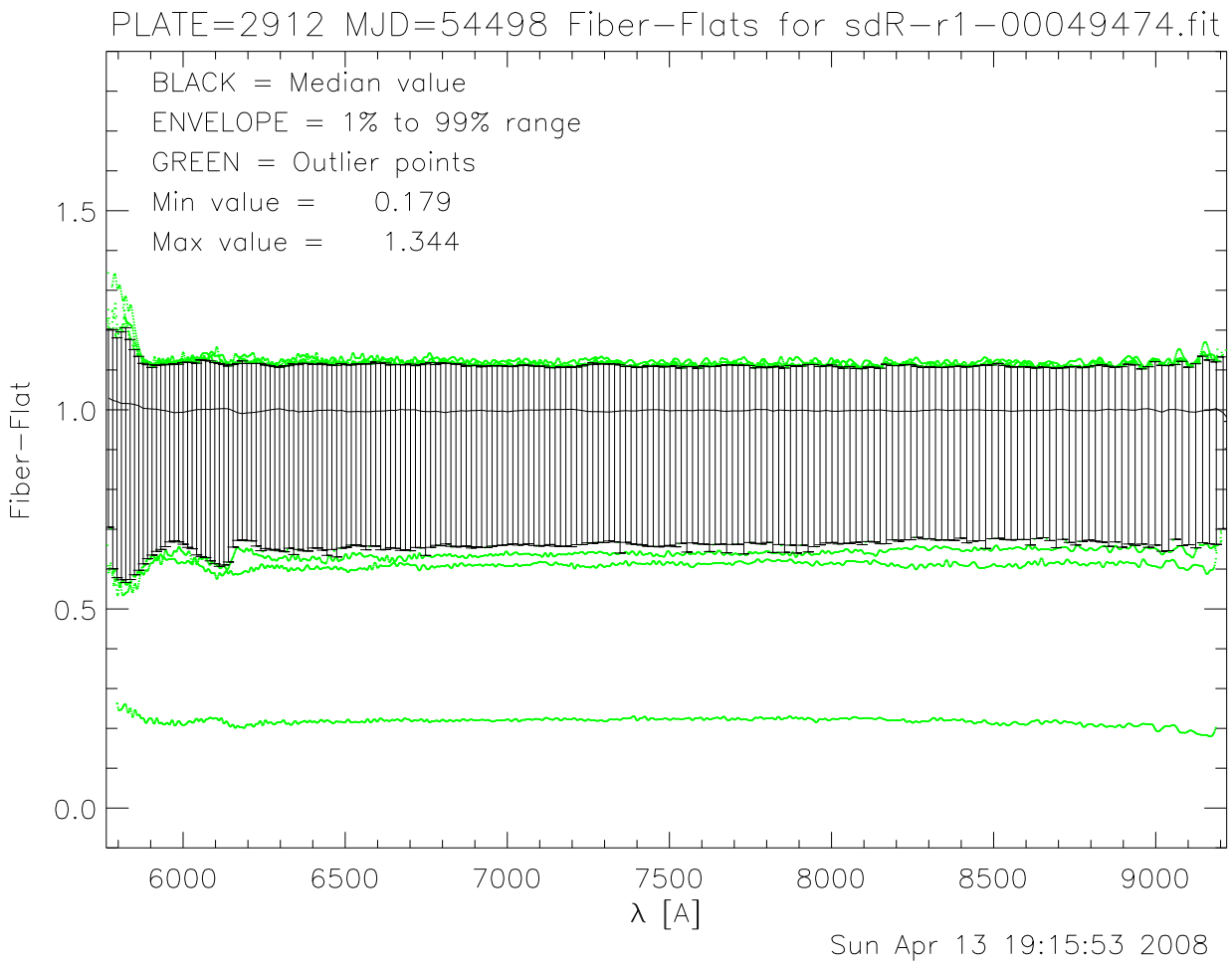

PLATE=2912 MJD=54498 sdR-r1-00049473.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

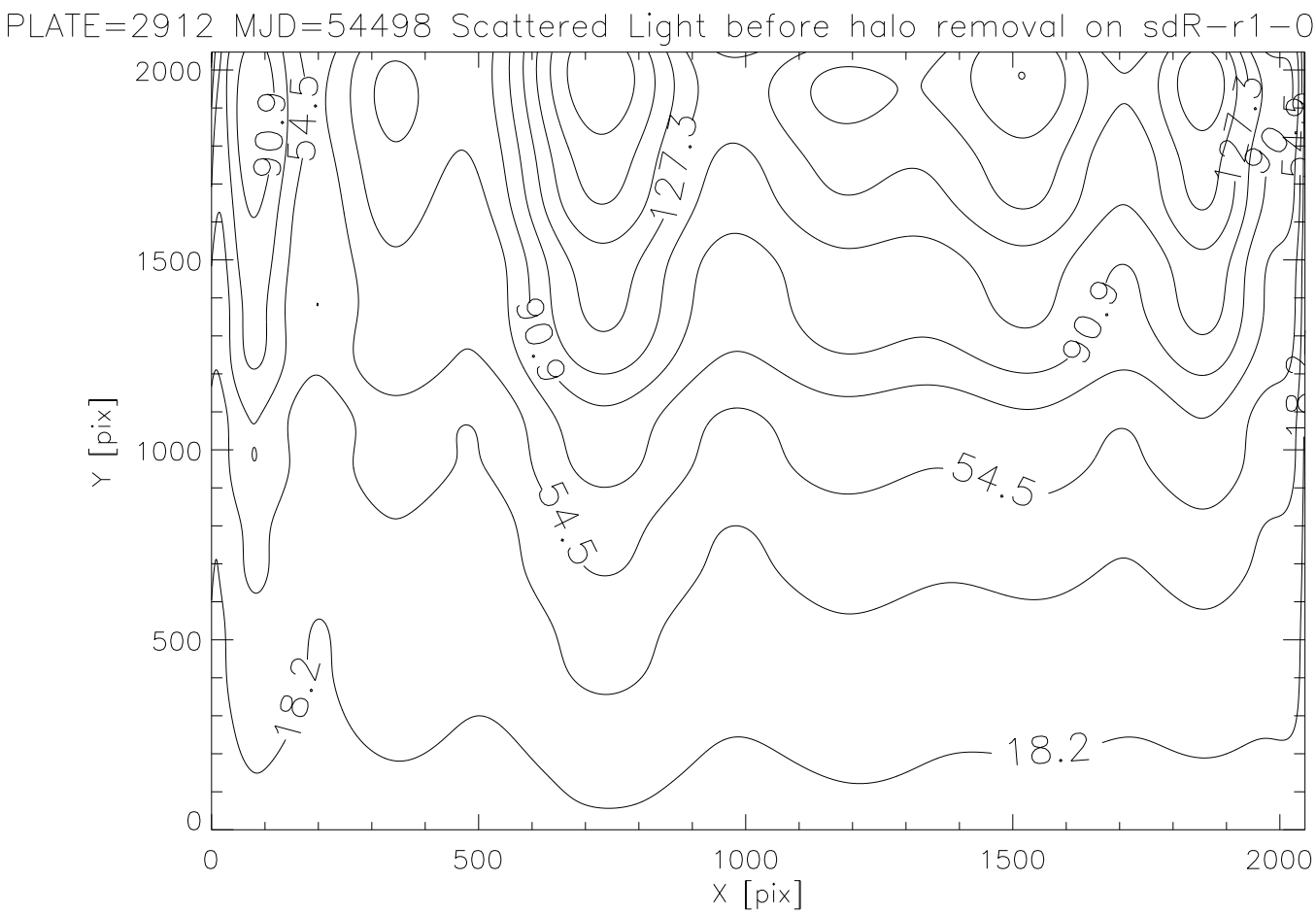

PLATE=2912 MJD=54498 sdR-r1-00049473.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

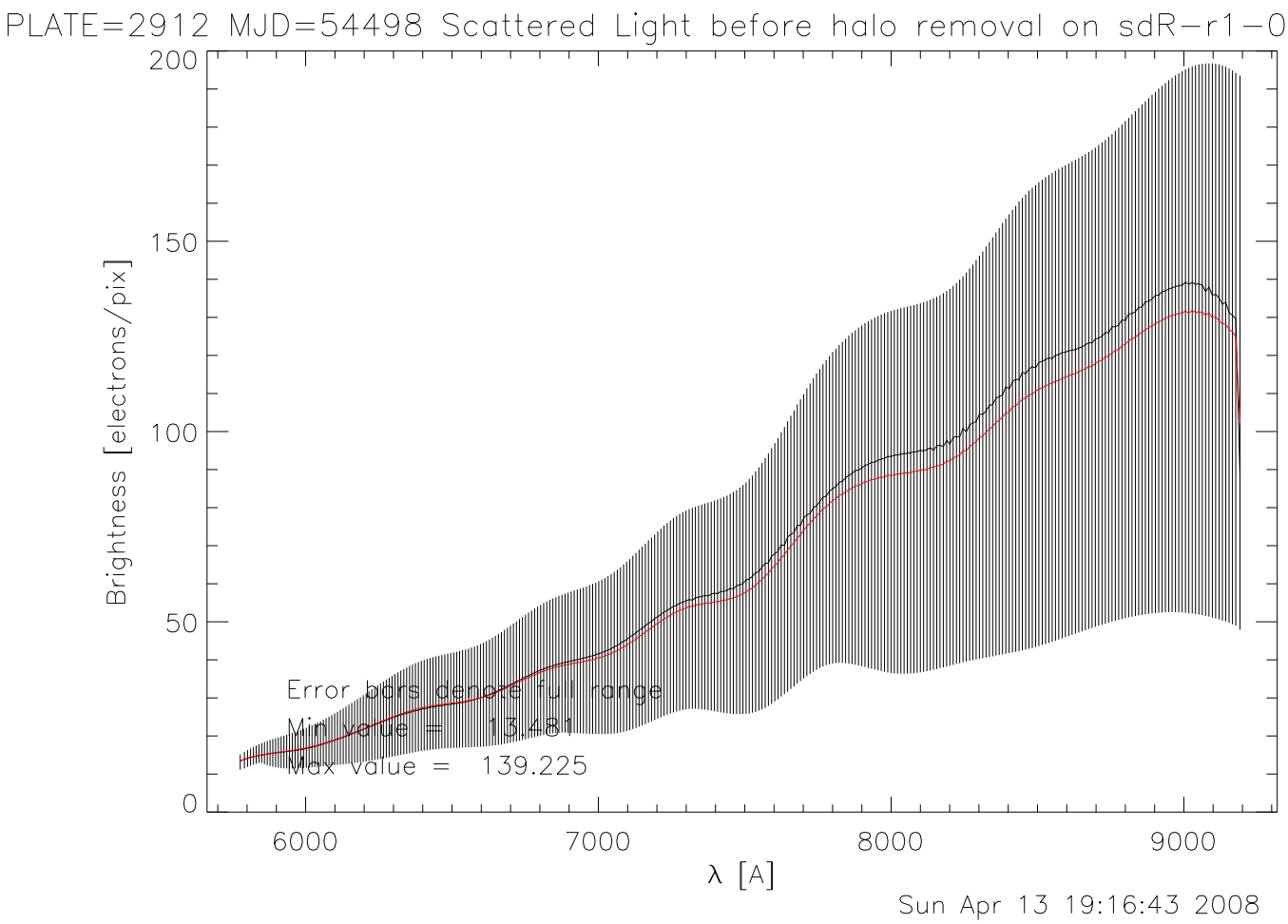

Number of sky fibers = 29
PLATE=2912 MJD=54498 sdR-r1-00049473.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

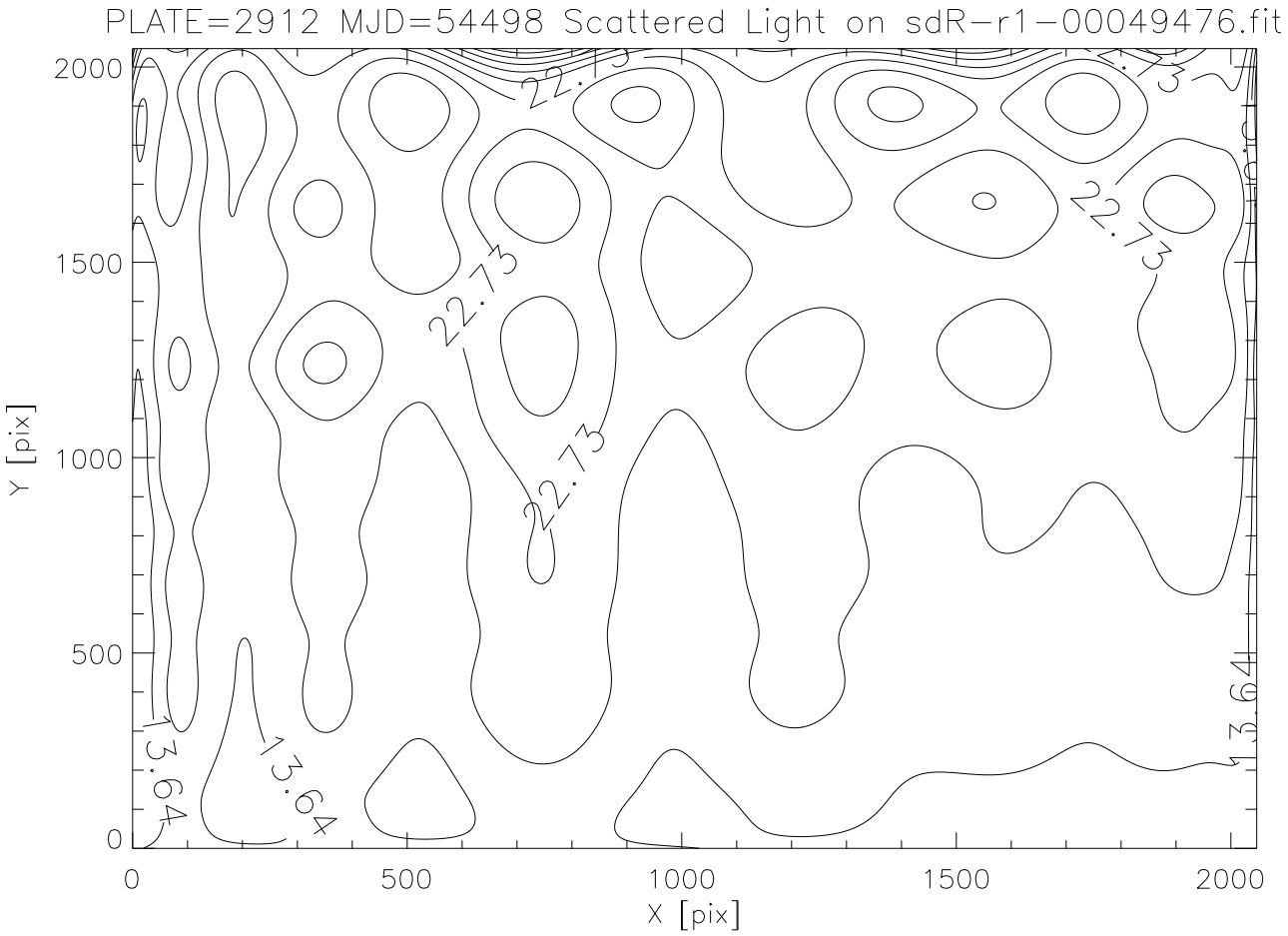

PLATE=2912 MJD=54498 sdR-r1-00049473.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.62 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

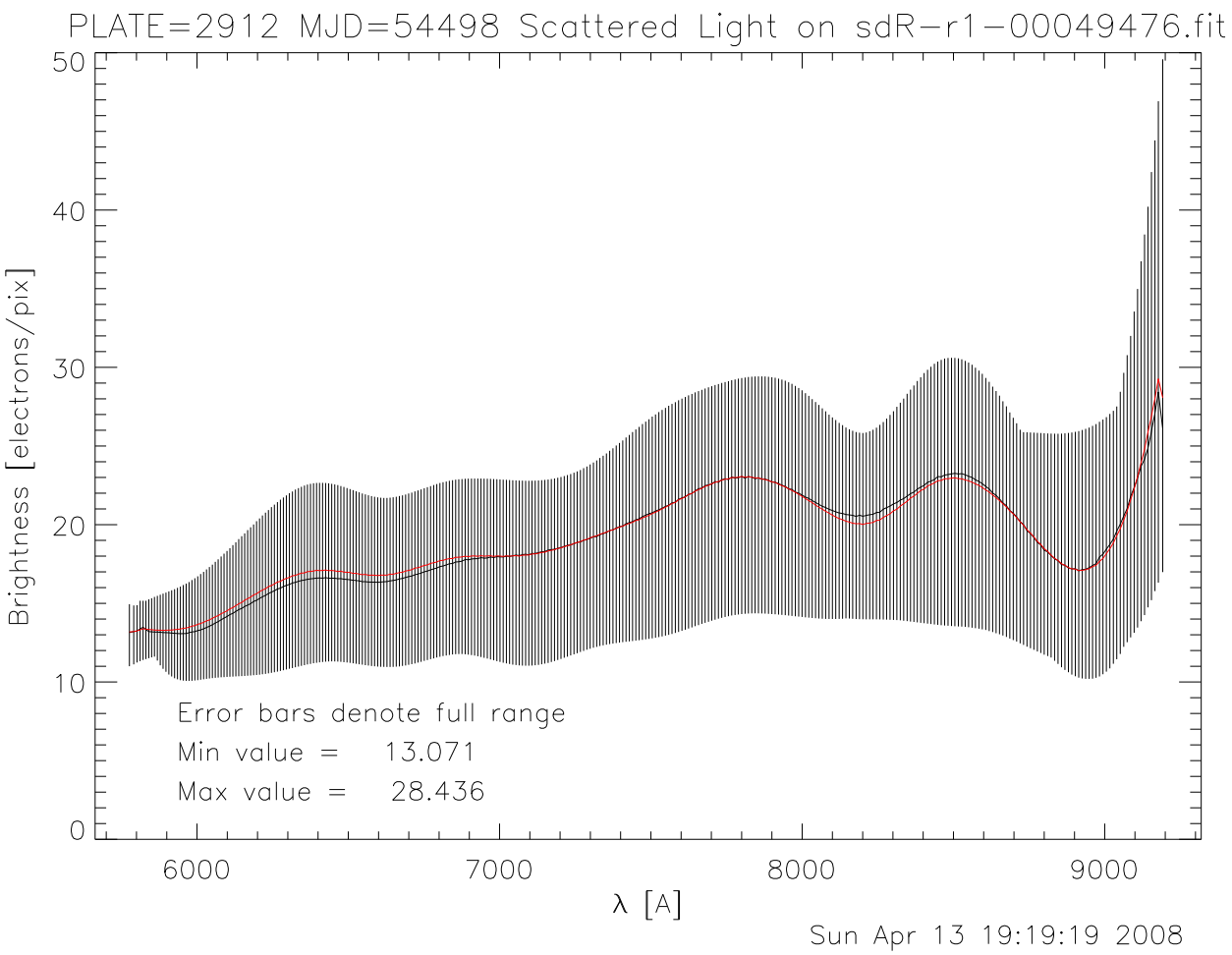

PLATE=2912 MJD=54498 sdR-r1-00049473.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.60 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

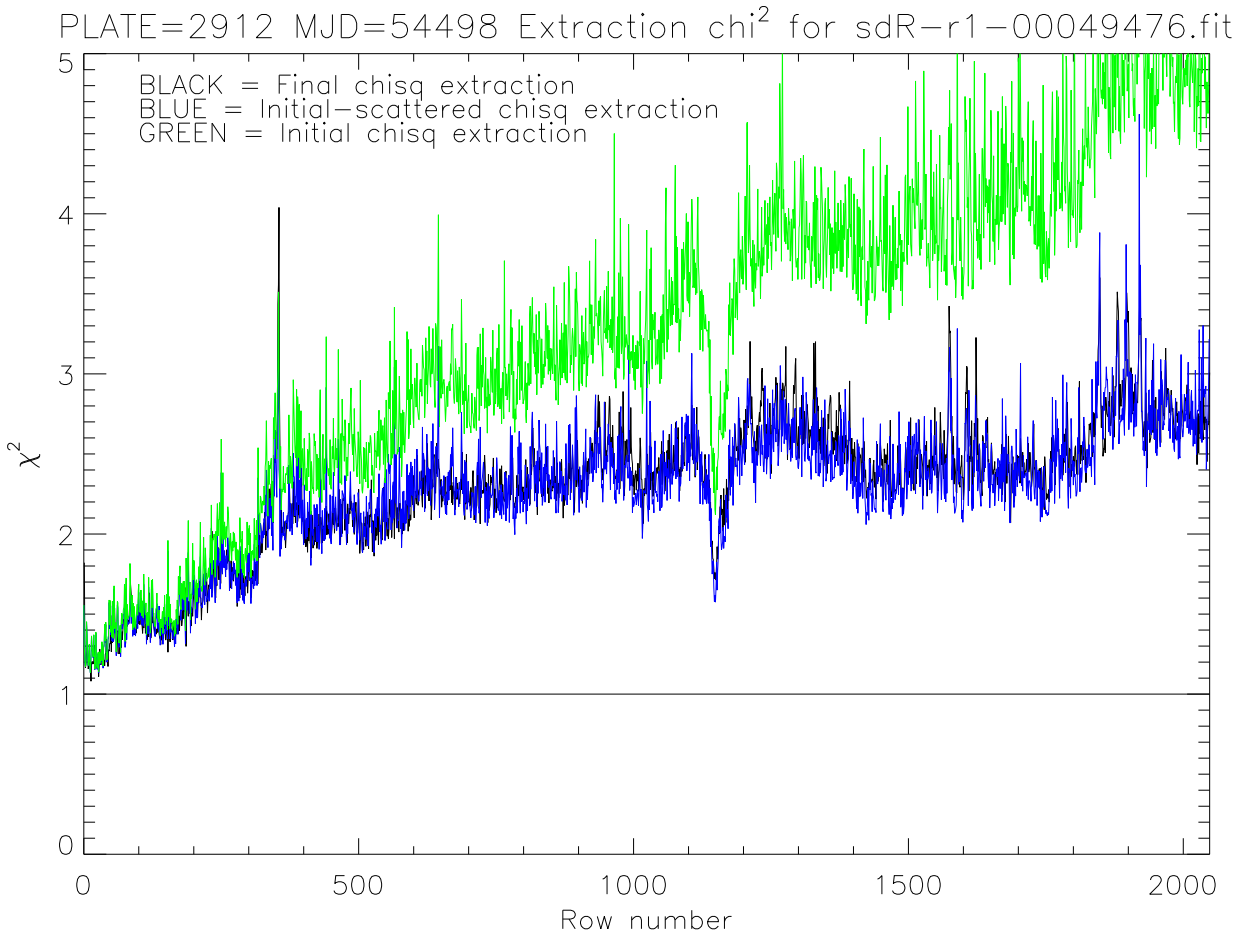

PLATE=2912 MJD=54498 Fiber−Flats for sdR−r1−00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.179
Max value = 1.344
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Apr 13 19:15:53 2008

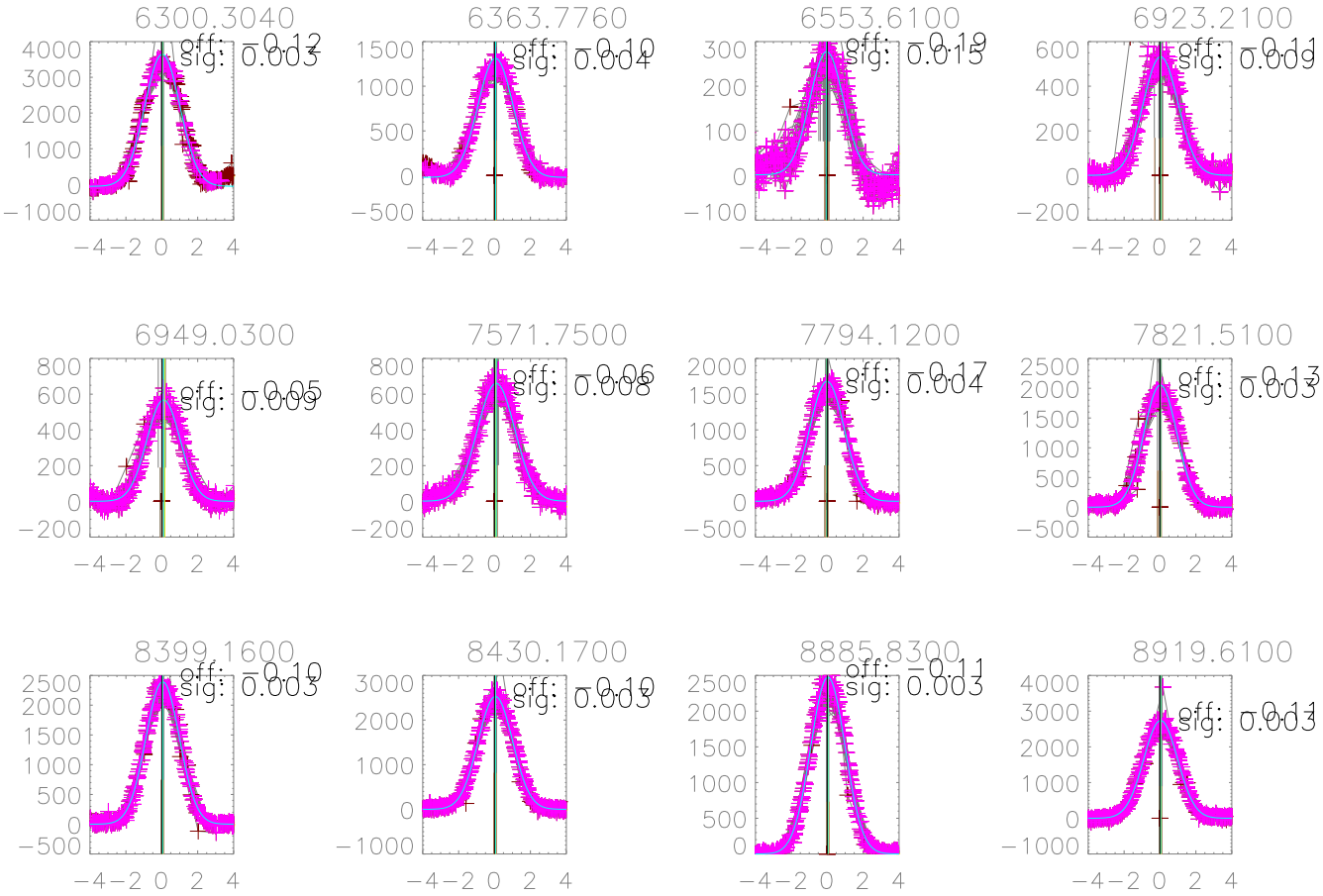

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r1-00049476.fi
Y [pix]
X [pix]
0
500
1000
1500
2000
90.9
54.5
127.3
60.6
18.2

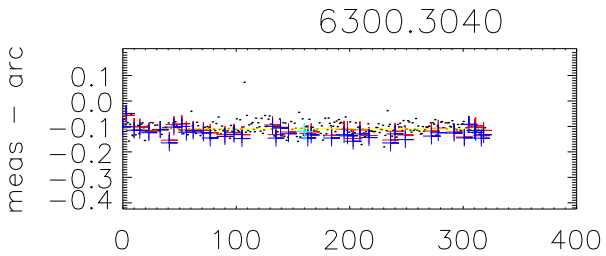

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r1-00049476.fi
200
150
100
50
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 13.481
Max value = 139.225
6000
7000
8000
9000
λ [A]
Sun Apr 13 19:16:43 2008

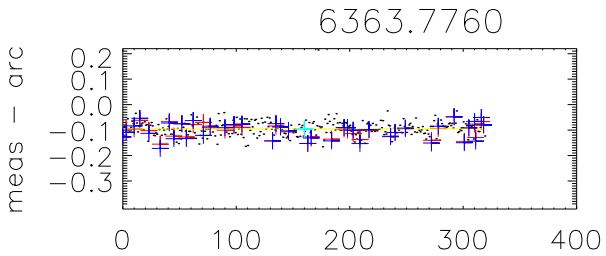

PLATE=2912 MJD=54498 Scattered Light on sdR−r1−00049476.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
22.73
13.64

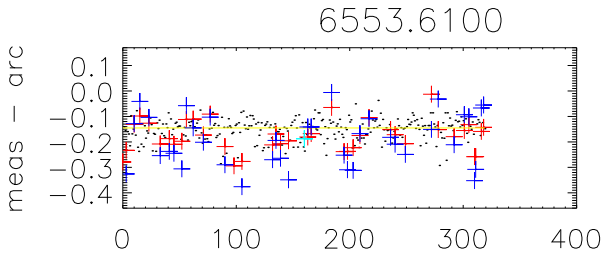

PLATE=2912 MJD=54498 Scattered Light on sdR-r1-00049476.fit
Brightness [electrons/pix]
50
40
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 13.071
Max value = 28.436
Sun Apr 13 19:19:19 2008

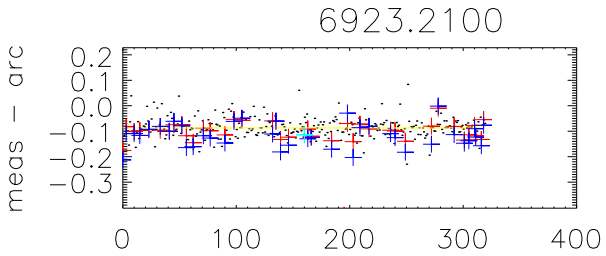

PLATE=2912 MJD=54498 Extraction chi^2 for sdR−r1−00049476.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

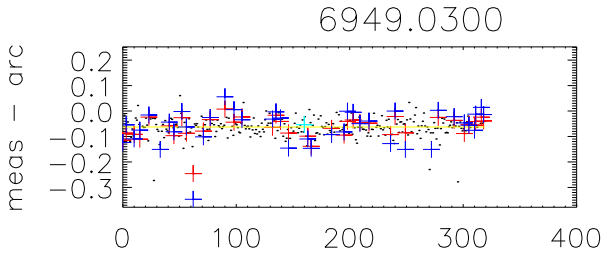

6300.3040
off: −0.12
sig: 0.003
6363.7760
off: −0.10
sig: 0.004
6553.6100
off: −0.19
sig: 0.015
6923.2100
off: −0.11
sig: 0.009
6949.0300
off: −0.05
sig: 0.009
7571.7500
off: −0.06
sig: 0.008
7794.1200
off: −0.17
sig: 0.004
7821.5100
off: −0.13
sig: 0.003
8399.1600
off: −0.10
sig: 0.003
8430.1700
off: −0.19
sig: 0.003
8885.8300
off: −0.11
sig: 0.003
8919.6100
off: −0.11
sig: 0.003

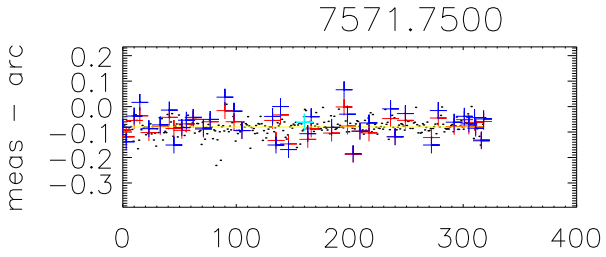

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

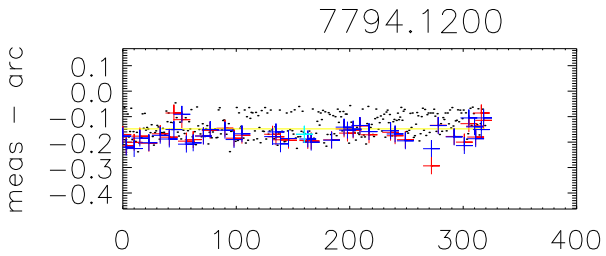

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

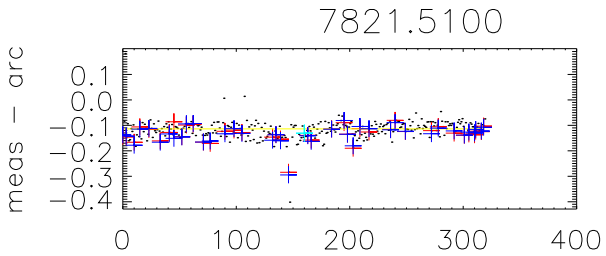

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

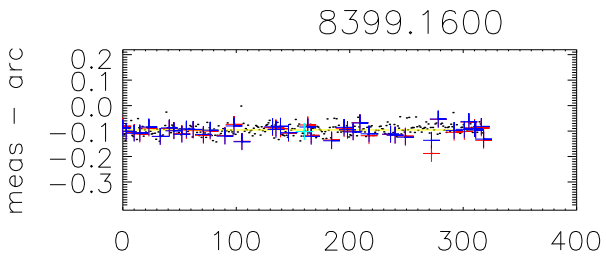

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

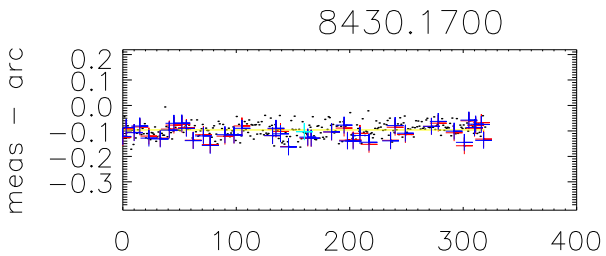

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

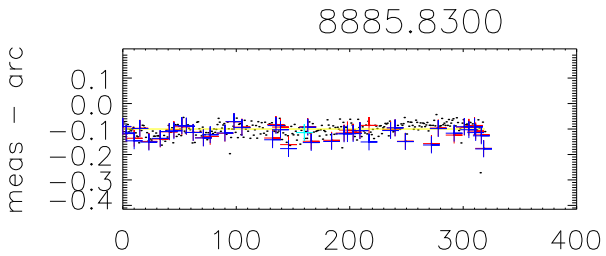

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

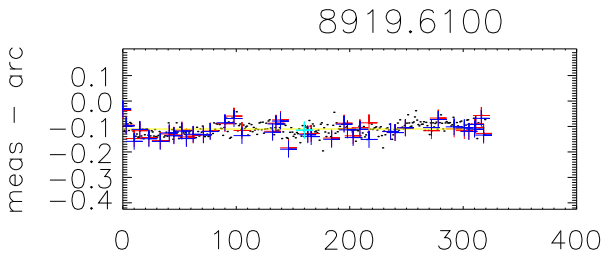

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

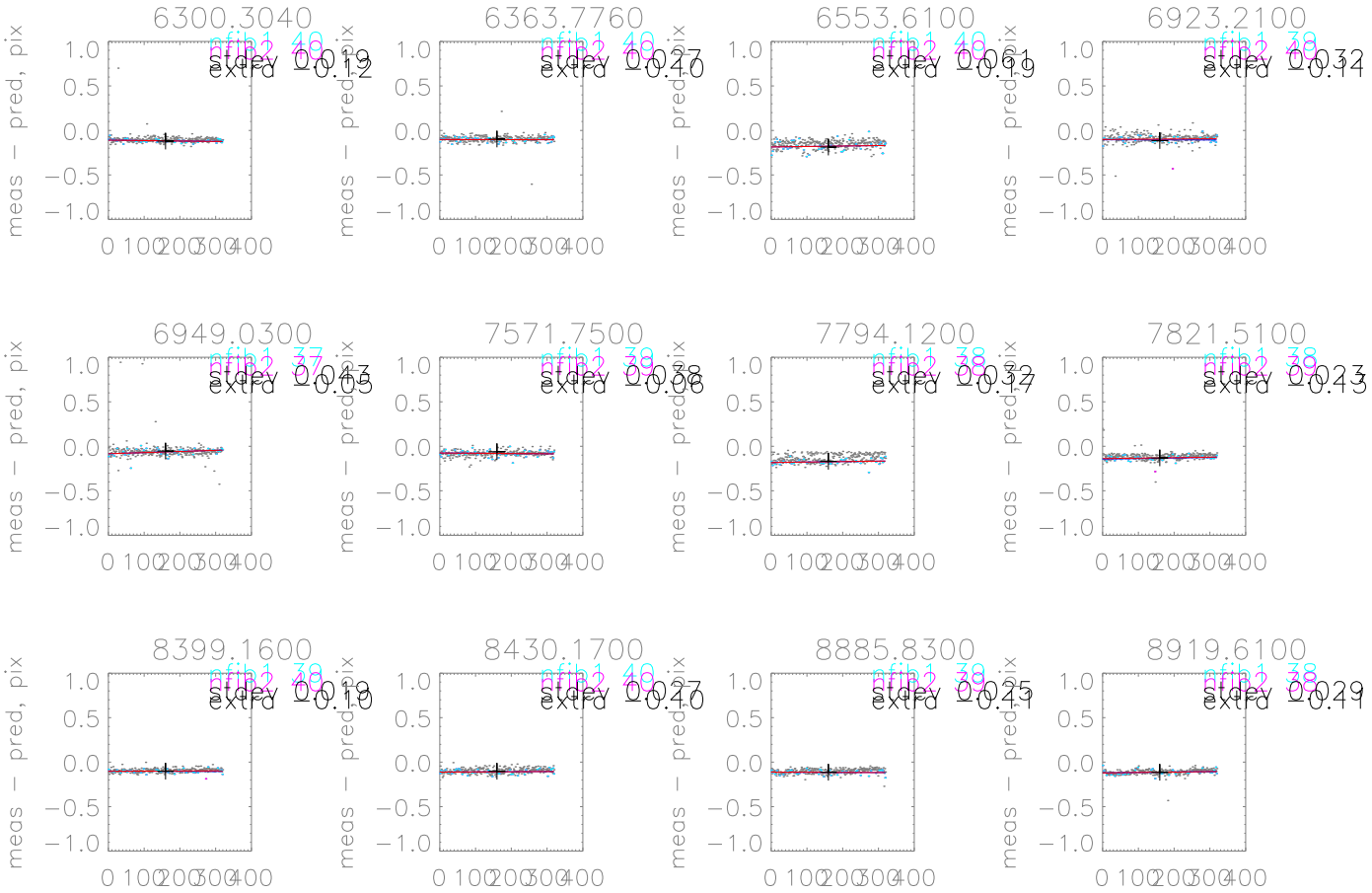

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

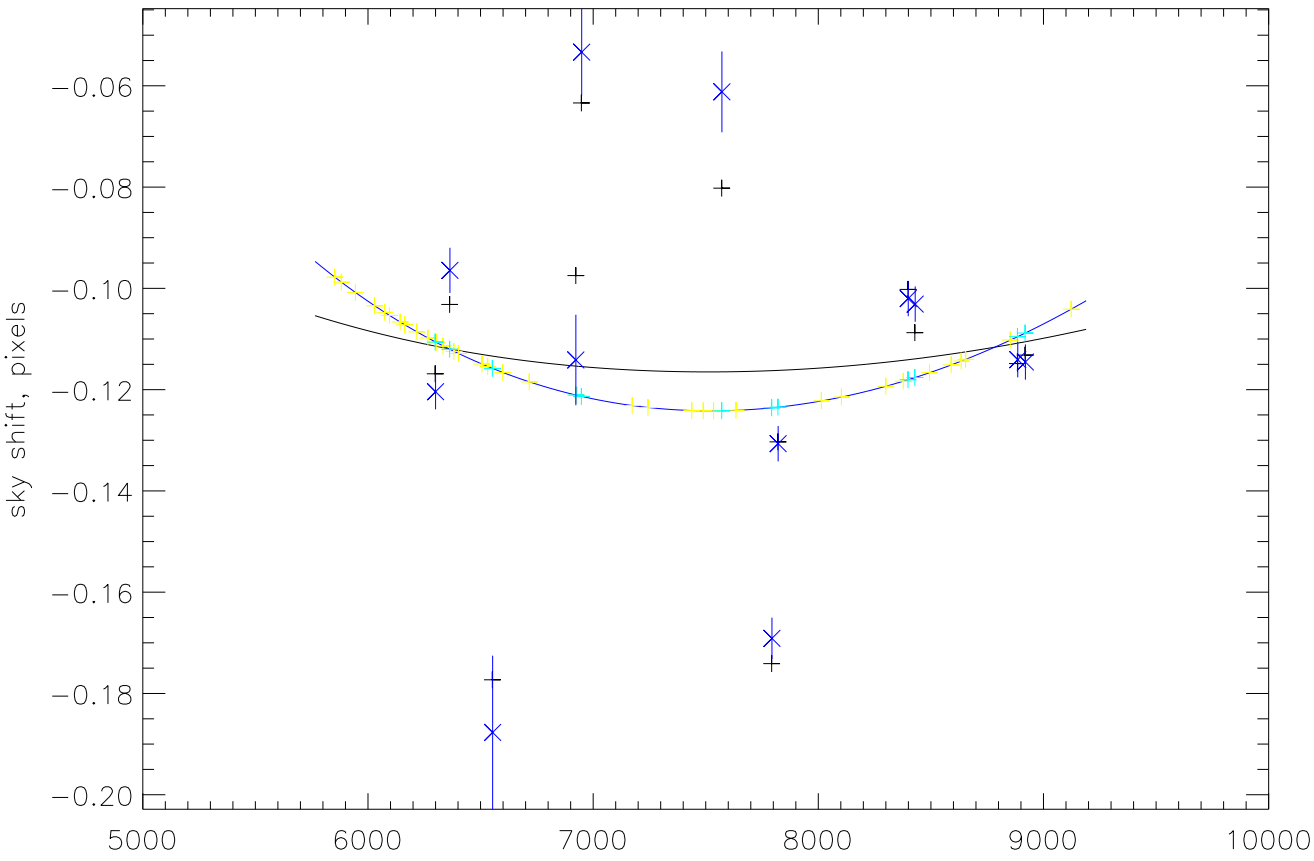

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

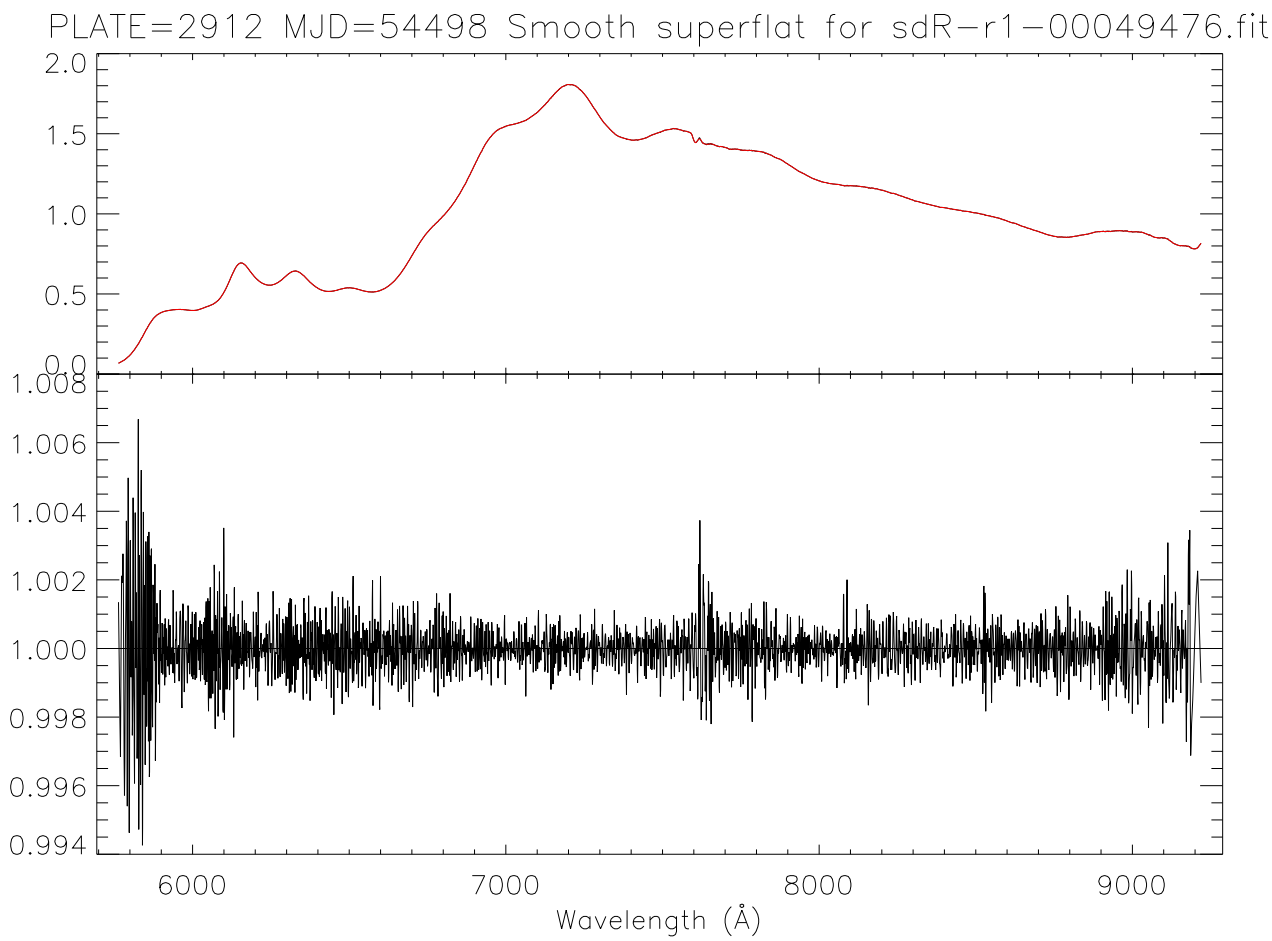

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

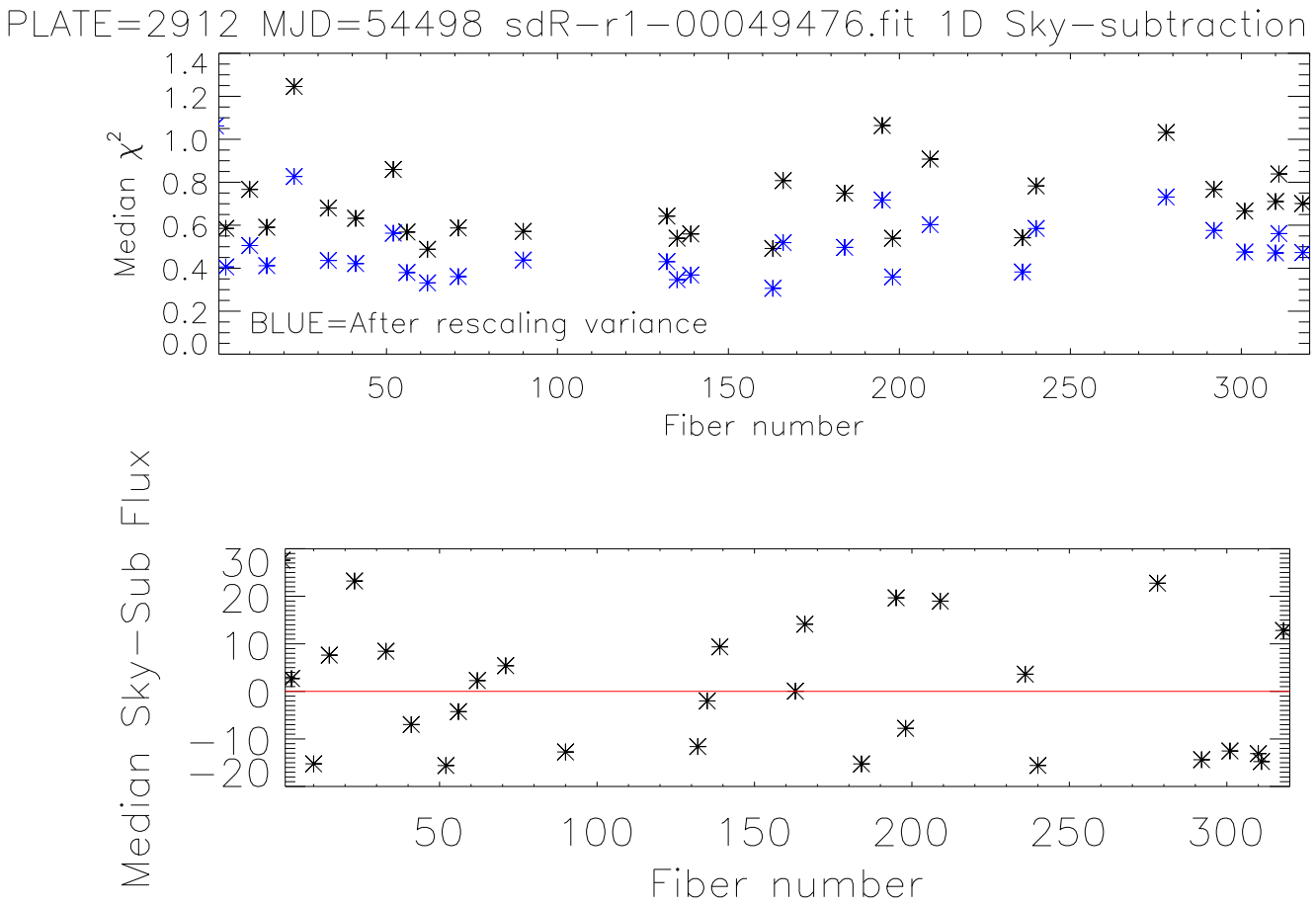

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

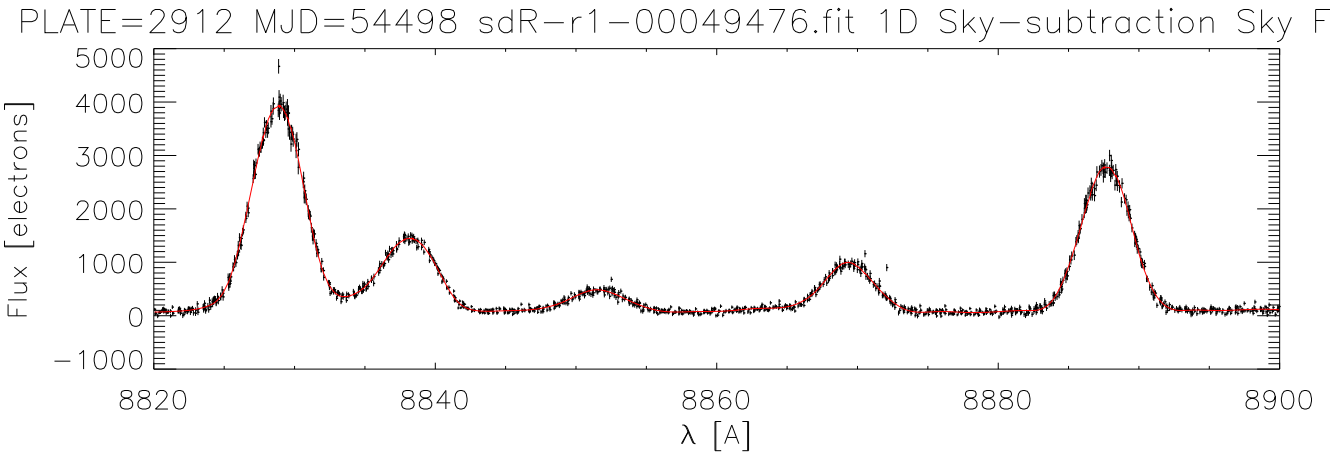

6300.3040
mfib1 40
mfib2 40
stdev 0.019
extra 0.12
6363.7760
mfib1 40
mfib2 40
stdev 0.027
extra 0.40
6553.6100
mfib1 40
mfib2 40
stdev 0.061
extra 0.19
6923.2100
mfib1 38
mfib2 40
stdev 0.032
extra 0.14
6949.0300
mfib1 37
mfib2 39
stdev 0.043
extra 0.05
7571.7500
mfib1 39
mfib2 39
stdev 0.038
extra 0.08
7794.1200
mfib1 38
mfib2 38
stdev 0.032
extra 0.17
7821.5100
mfib1 38
mfib2 38
stdev 0.023
extra 0.43
8399.1600
mfib1 39
mfib2 40
stdev 0.019
extra 0.10
8430.1700
mfib1 40
mfib2 40
stdev 0.027
extra 0.40
8885.8300
mfib1 39
mfib2 39
stdev 0.025
extra 0.41
8919.6100
mfib1 38
mfib2 38
stdev 0.029
extra 0.41
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

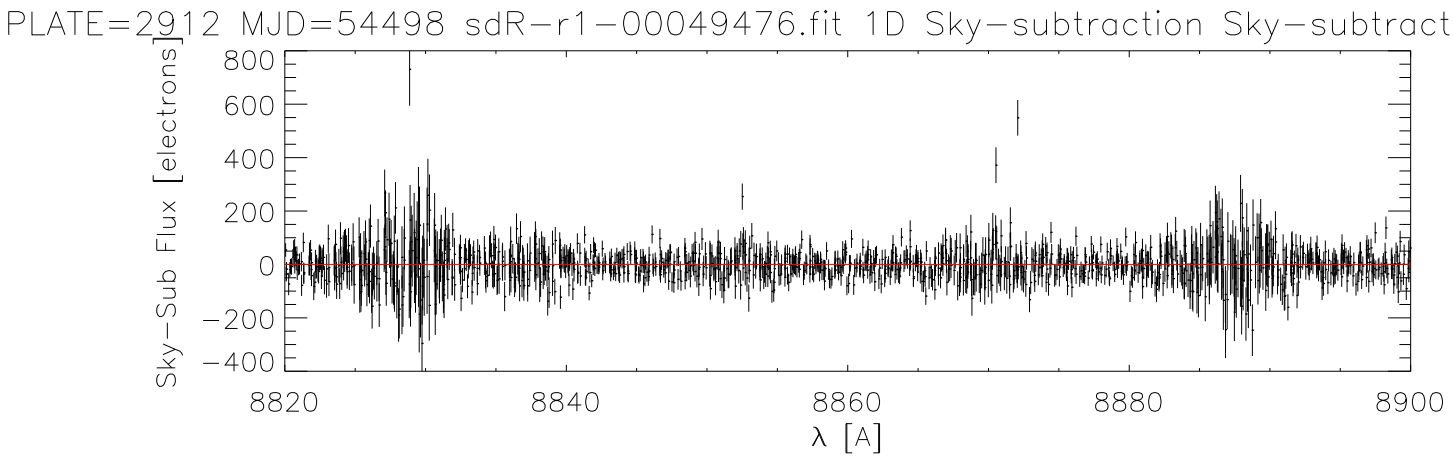

sky shift, pixels
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
−0.20
5000
6000
7000
8000
9000
10000

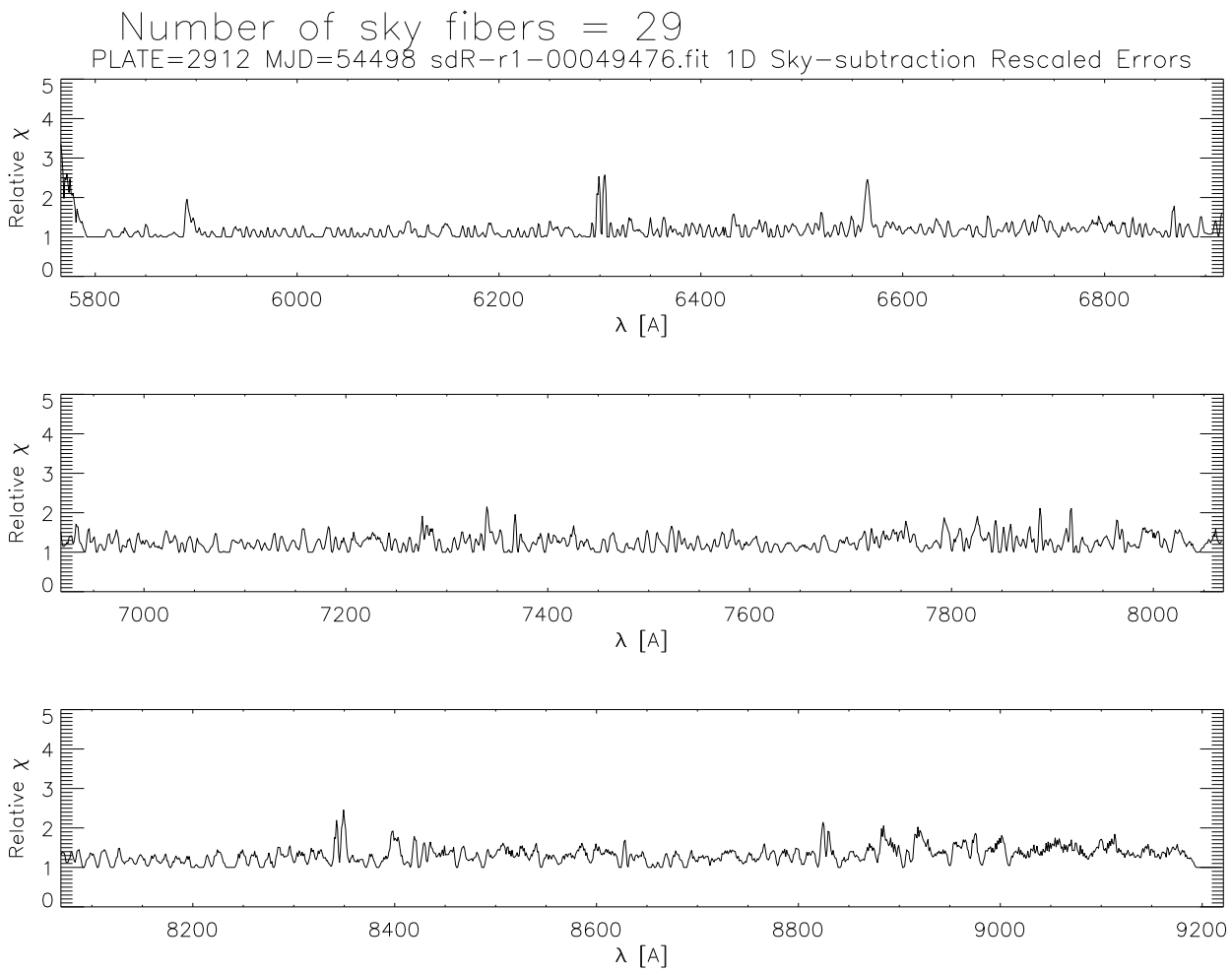
es= 0.0000

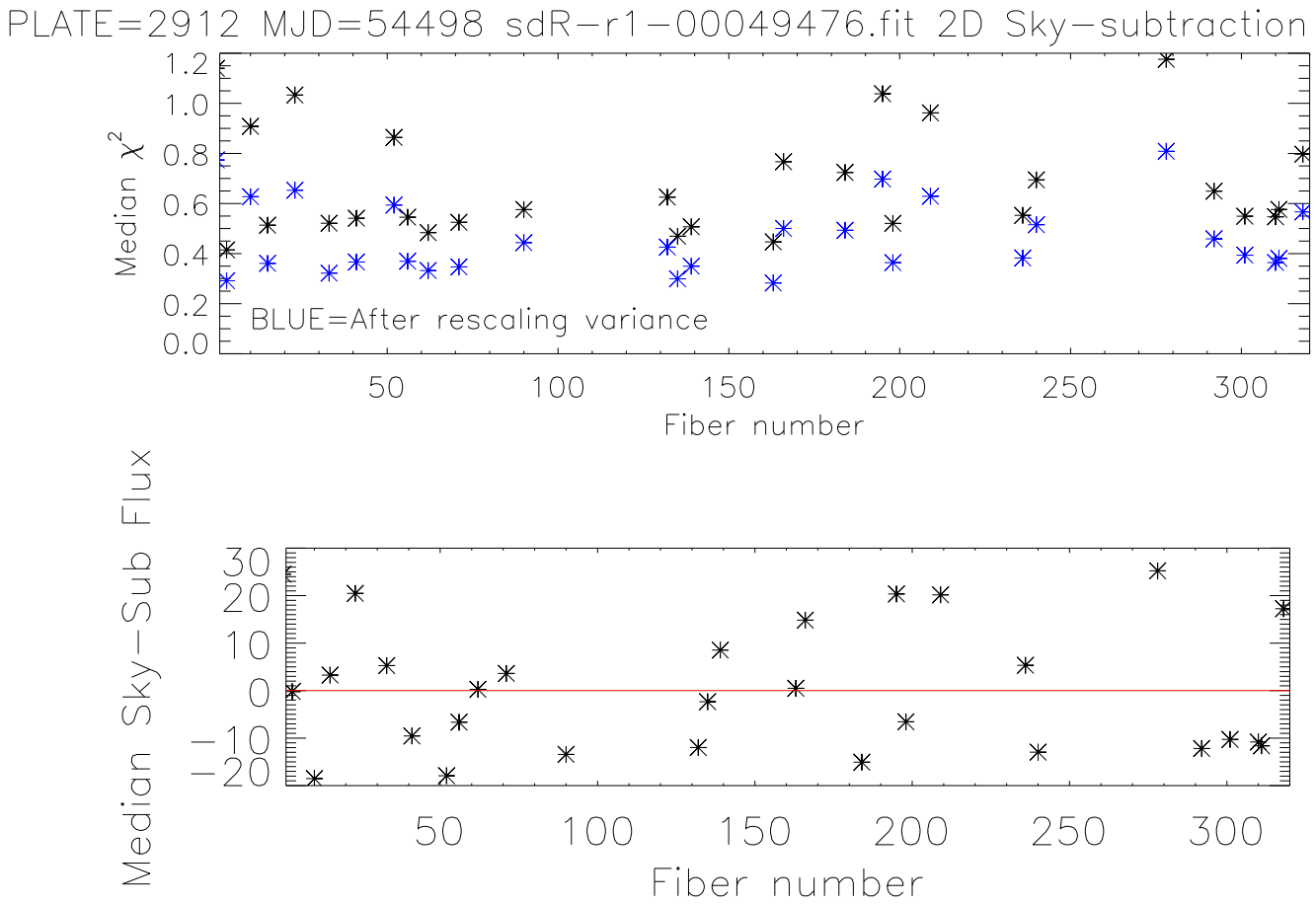

PLATE=2912 MJD=54498 Smooth superflat for sdR-r1-00049476.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

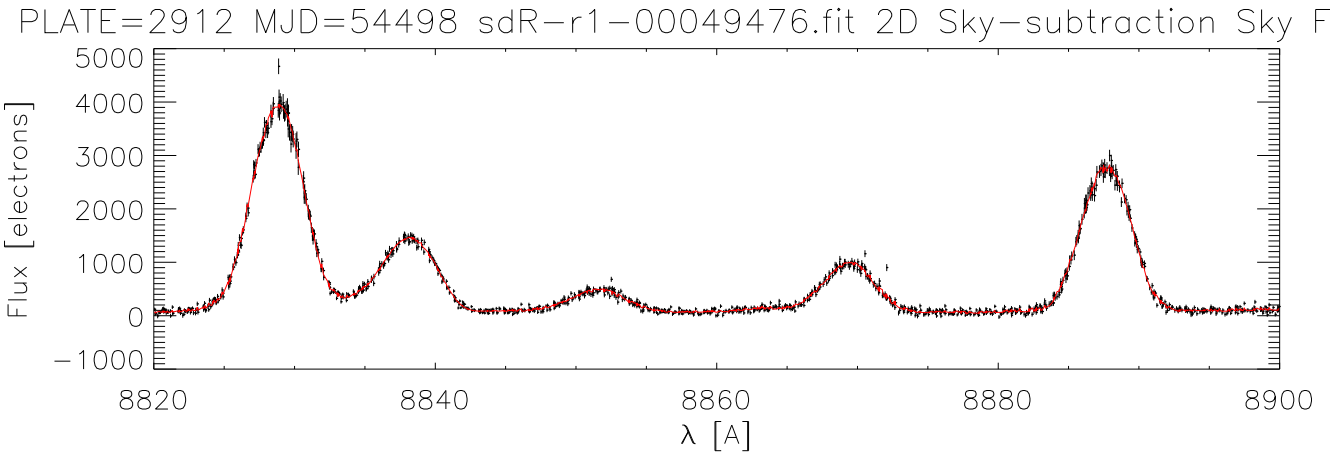

PLATE=2912 MJD=54498 sdR-r1-00049476.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

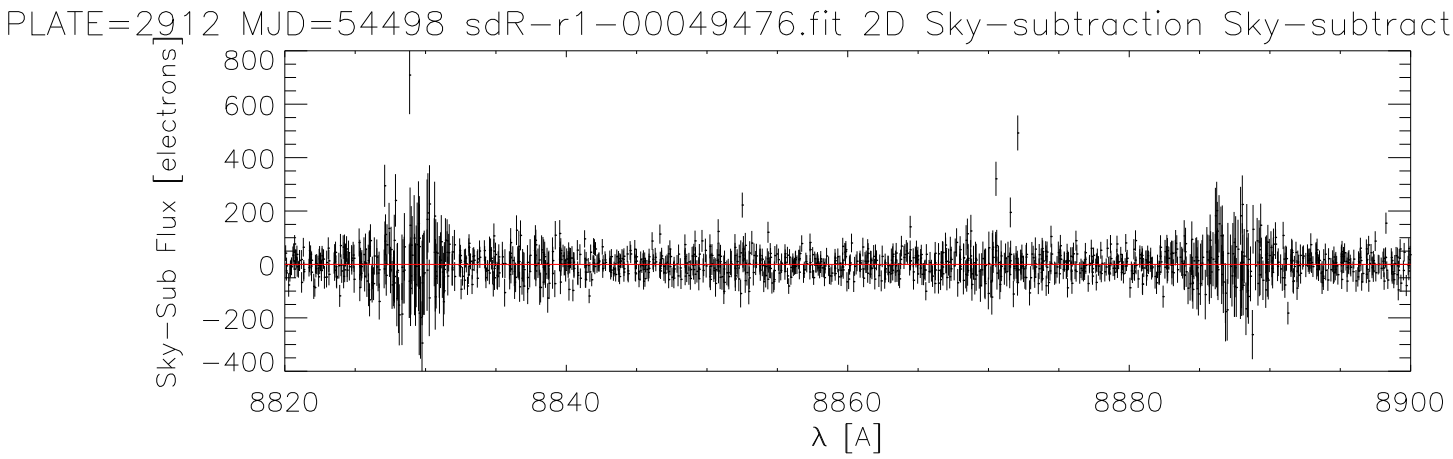

PLATE=2912 MJD=54498 sdR-r1-00049476.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

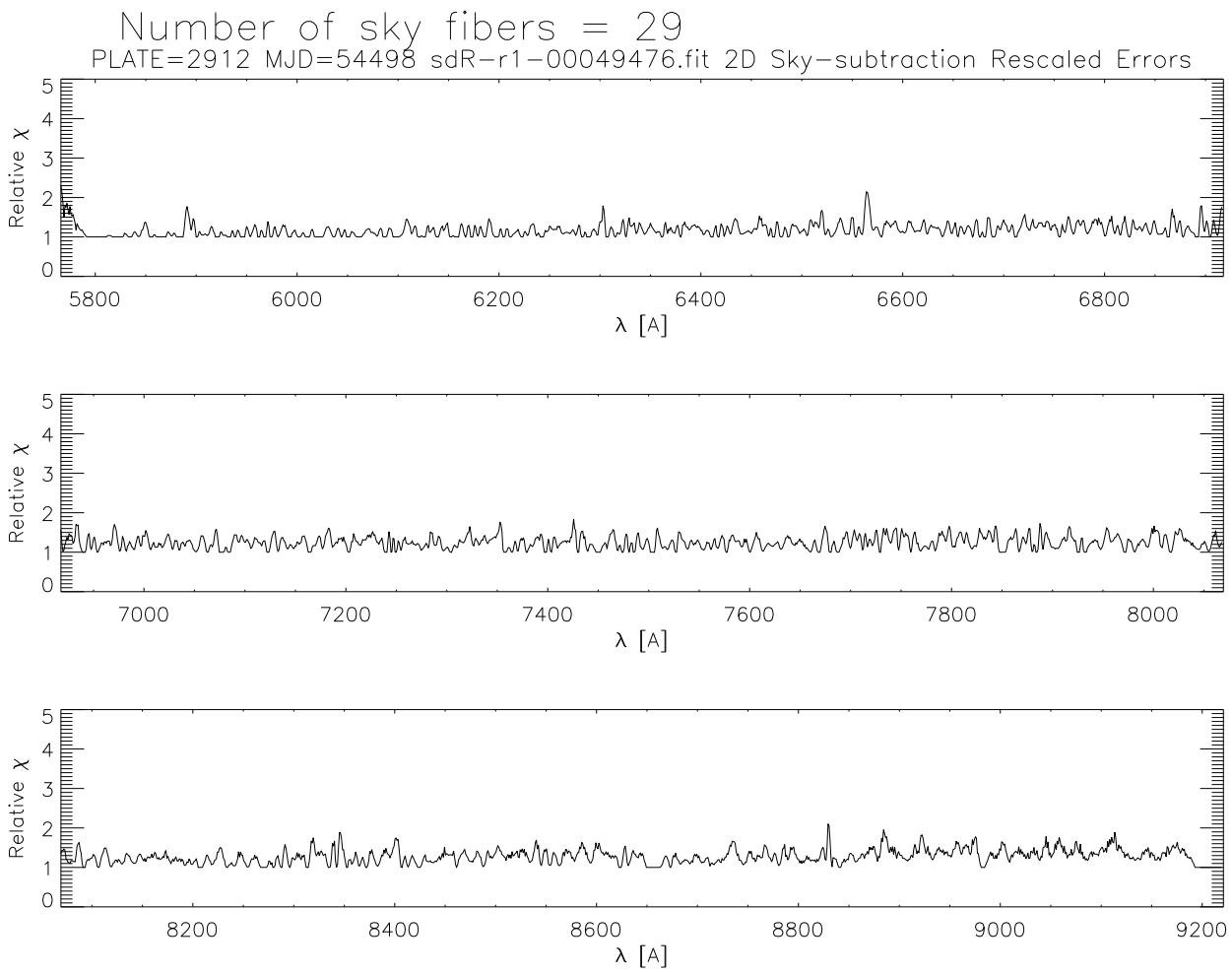

PLATE=2912 MJD=54498 sdR-r1-00049476.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

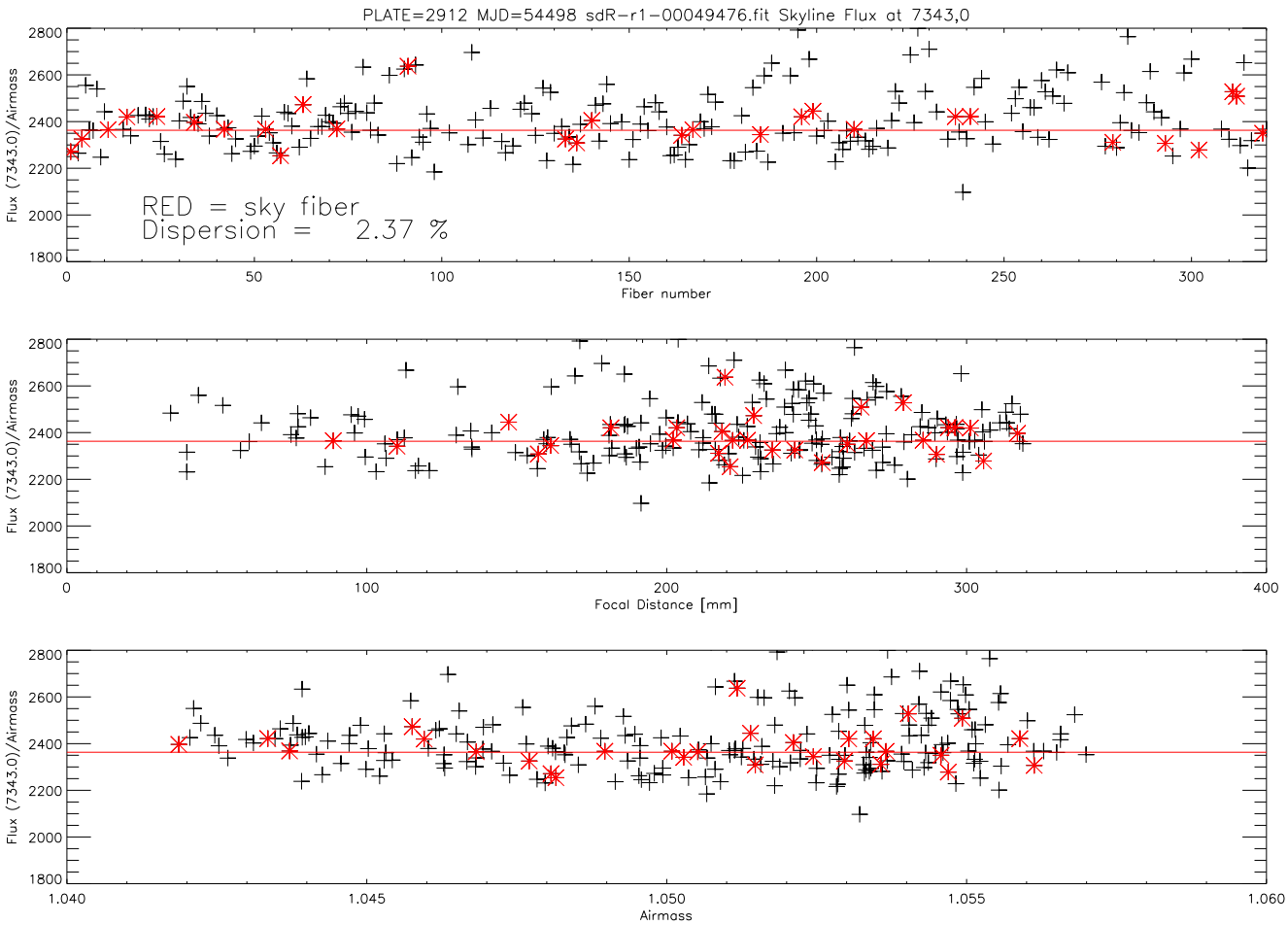

Number of sky fibers = 29
PLATE=2912 MJD=54498 sdR-r1-00049476.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

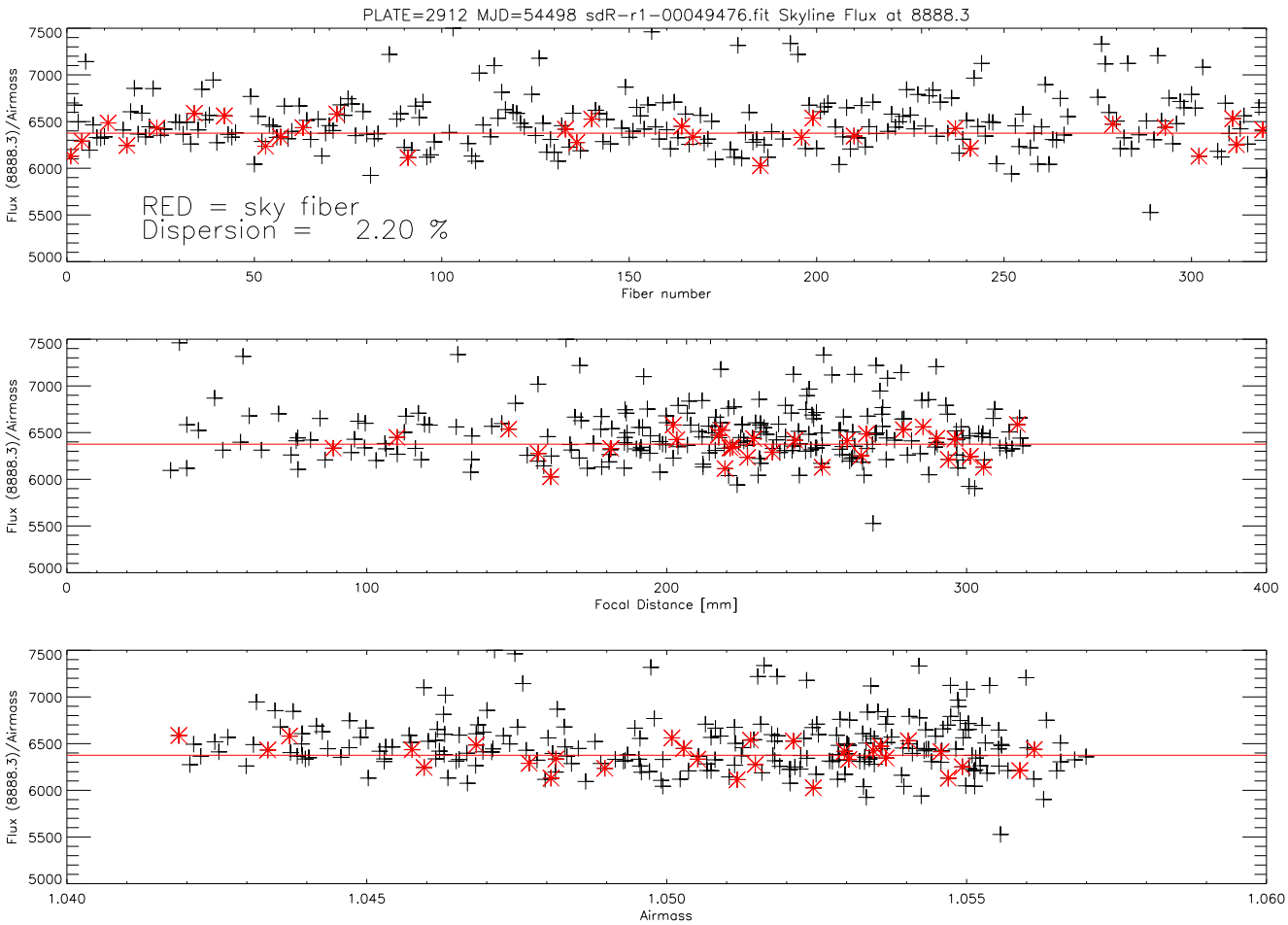

PLATE=2912 MJD=54498 sdR-r1-00049476.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

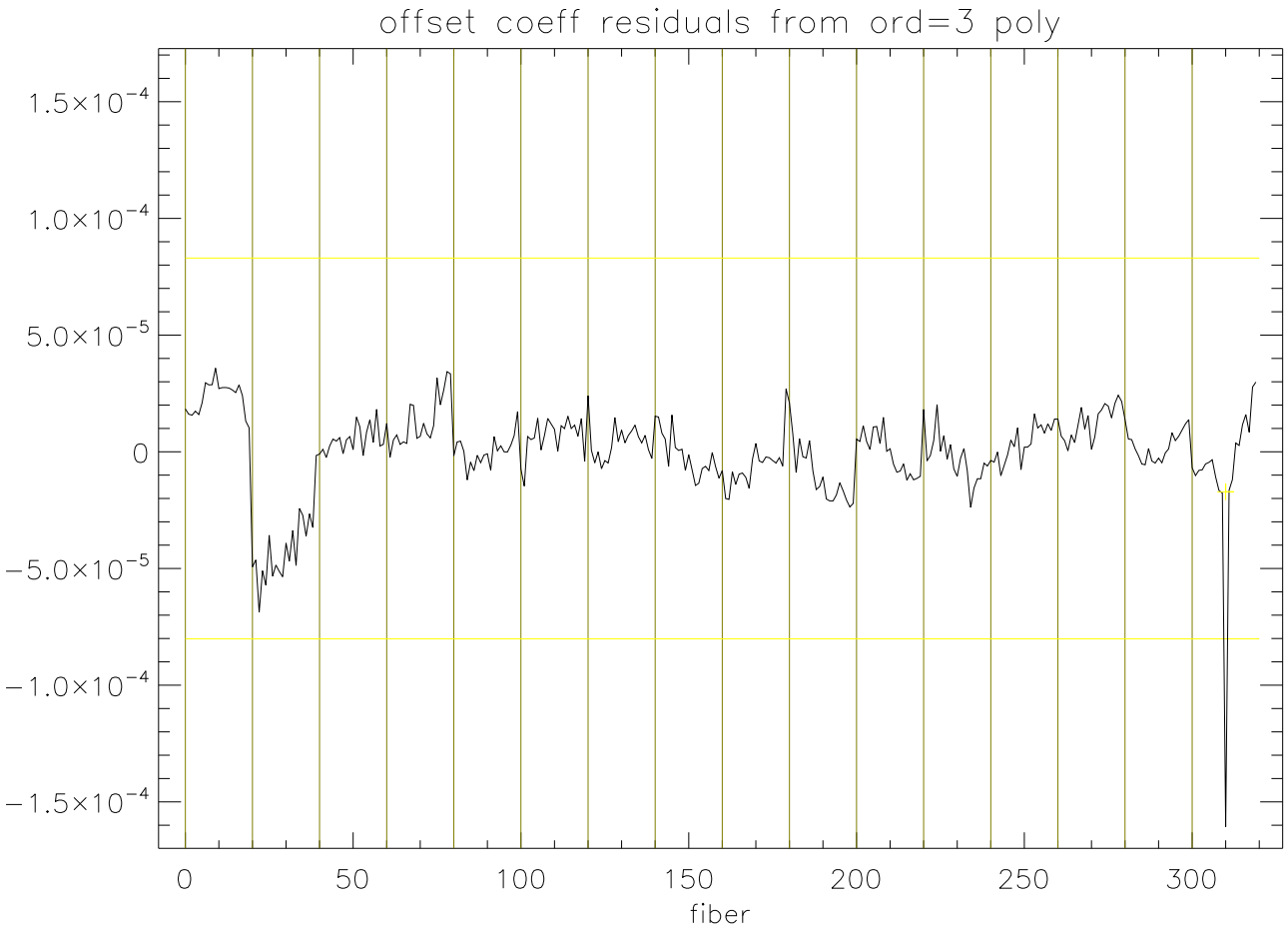

PLATE=2912 MJD=54498 sdR-r1-00049476.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

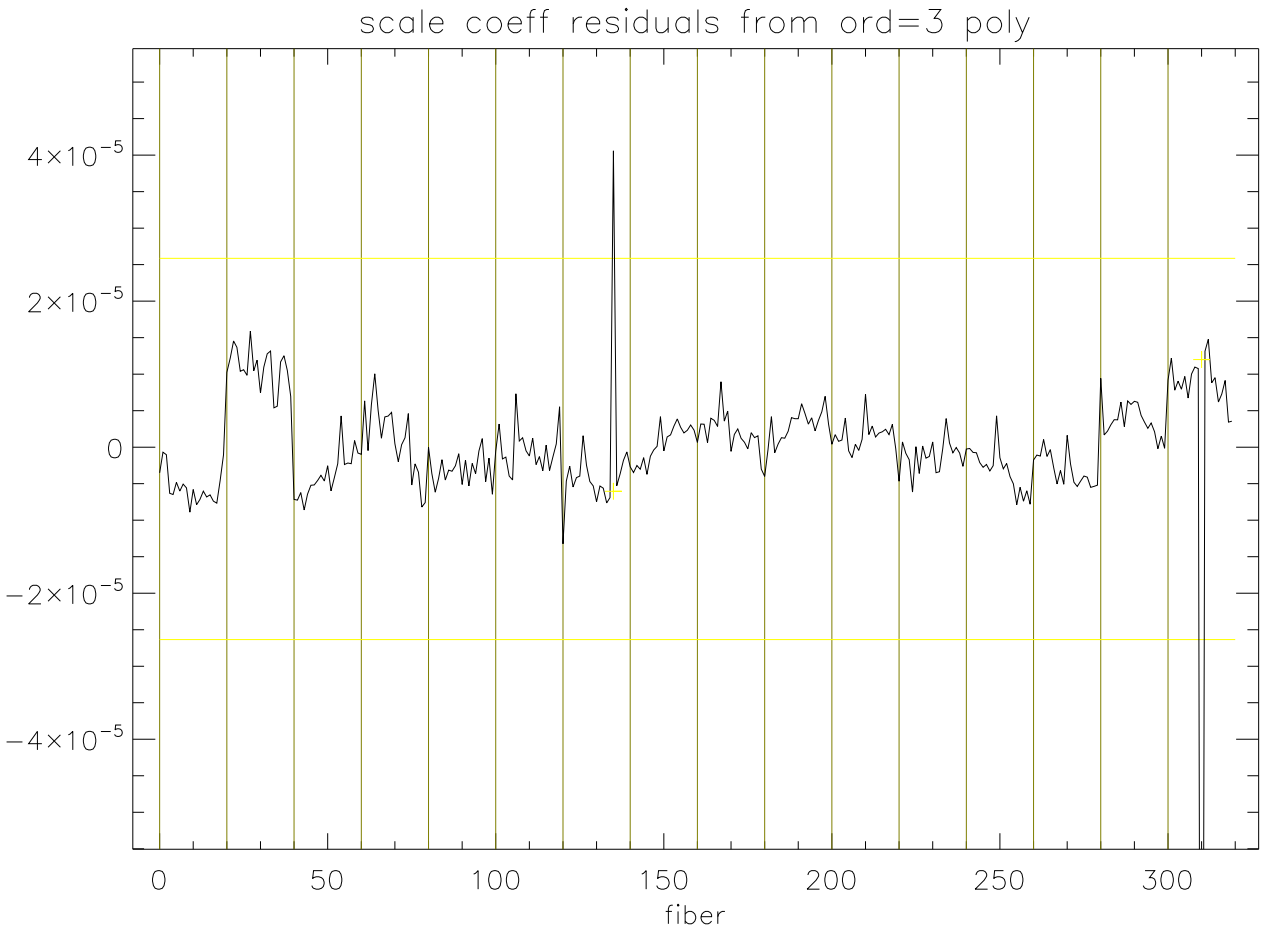

PLATE=2912 MJD=54498 sdR-r1-00049476.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

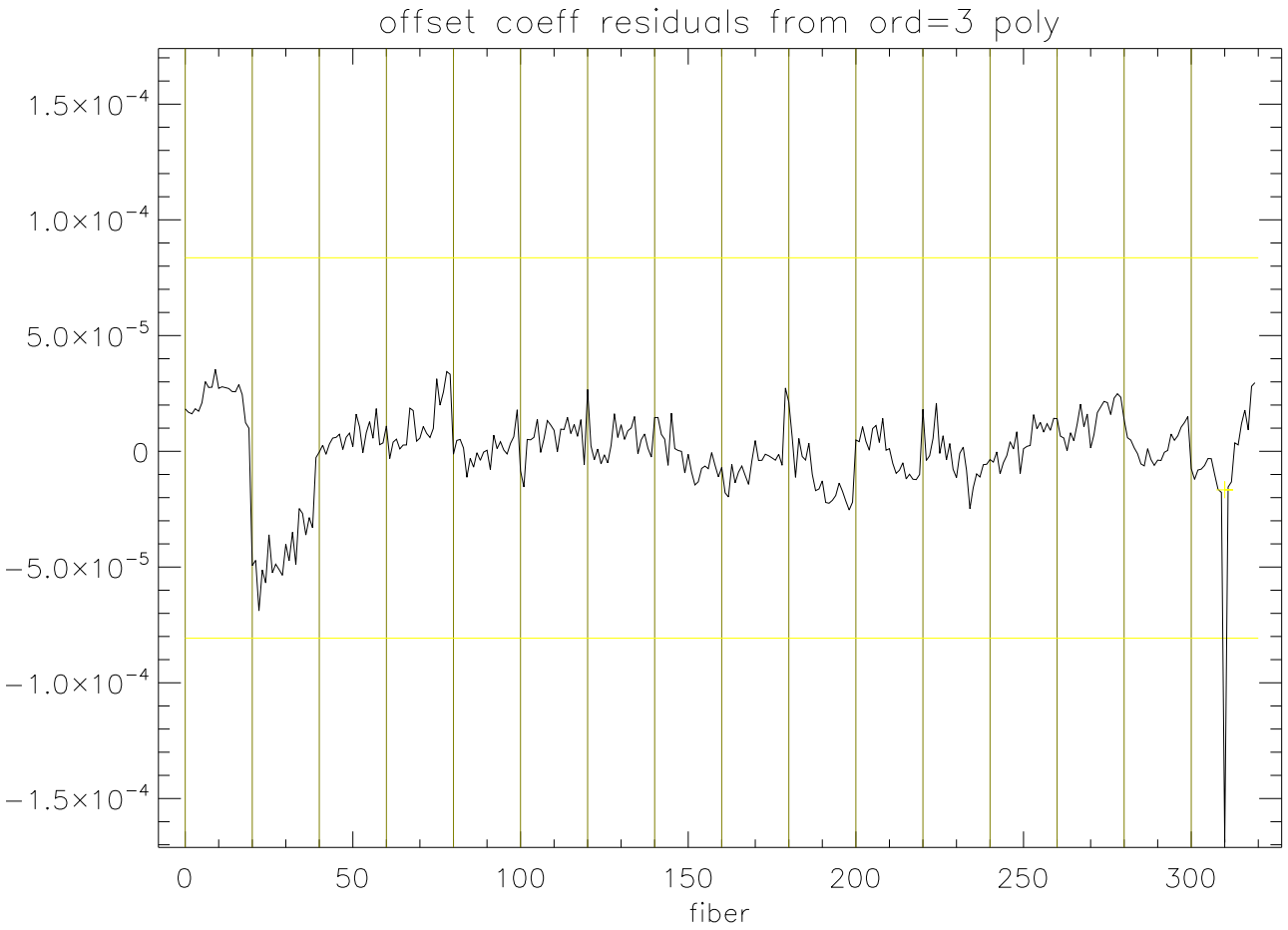

Number of sky fibers = 29
PLATE=2912 MJD=54498 sdR-r1-00049476.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

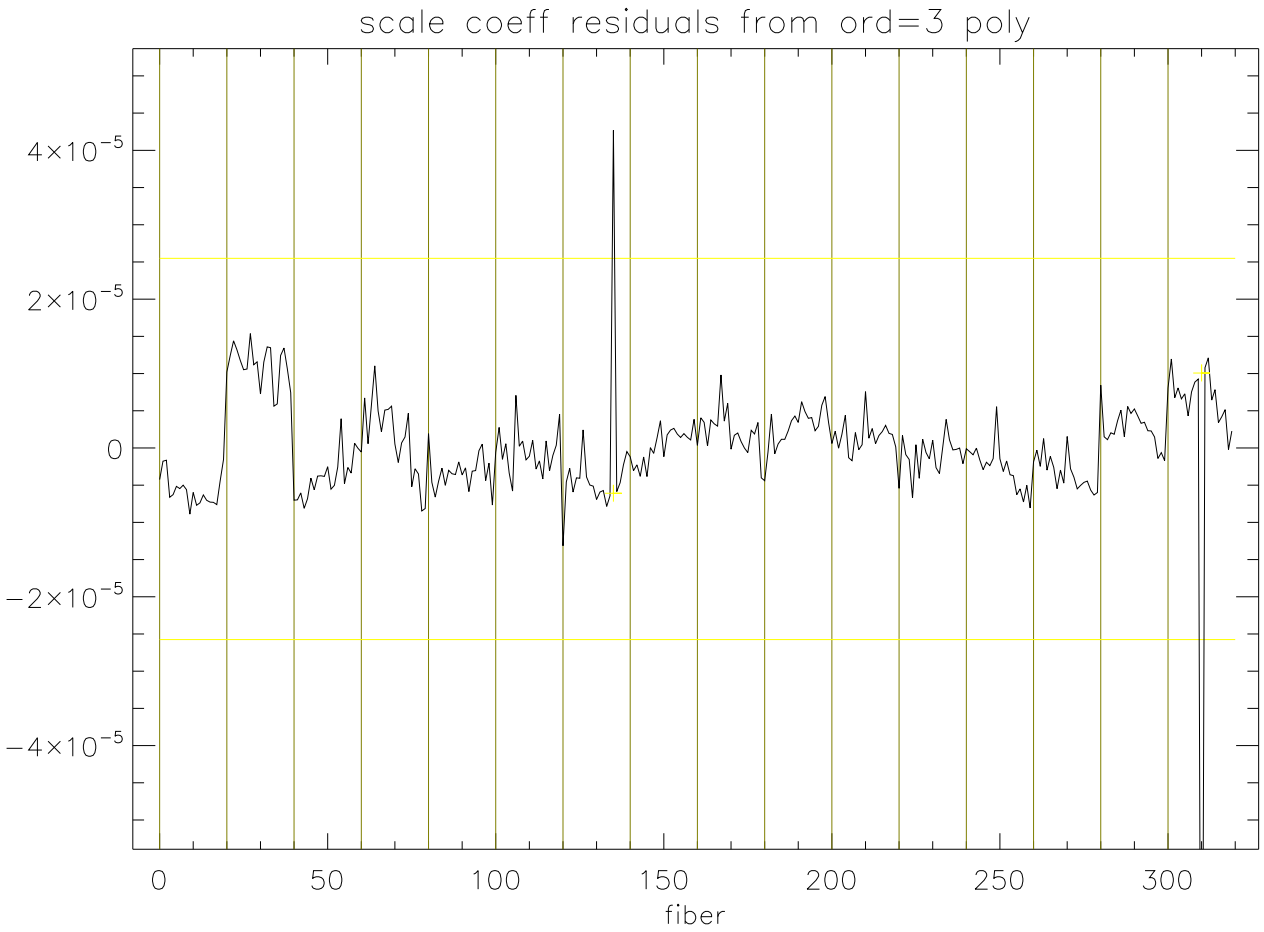

PLATE=2912 MJD=54498 sdR-r1-00049476.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.37 %
Fiber number
Focal Distance [mm]
Airmass

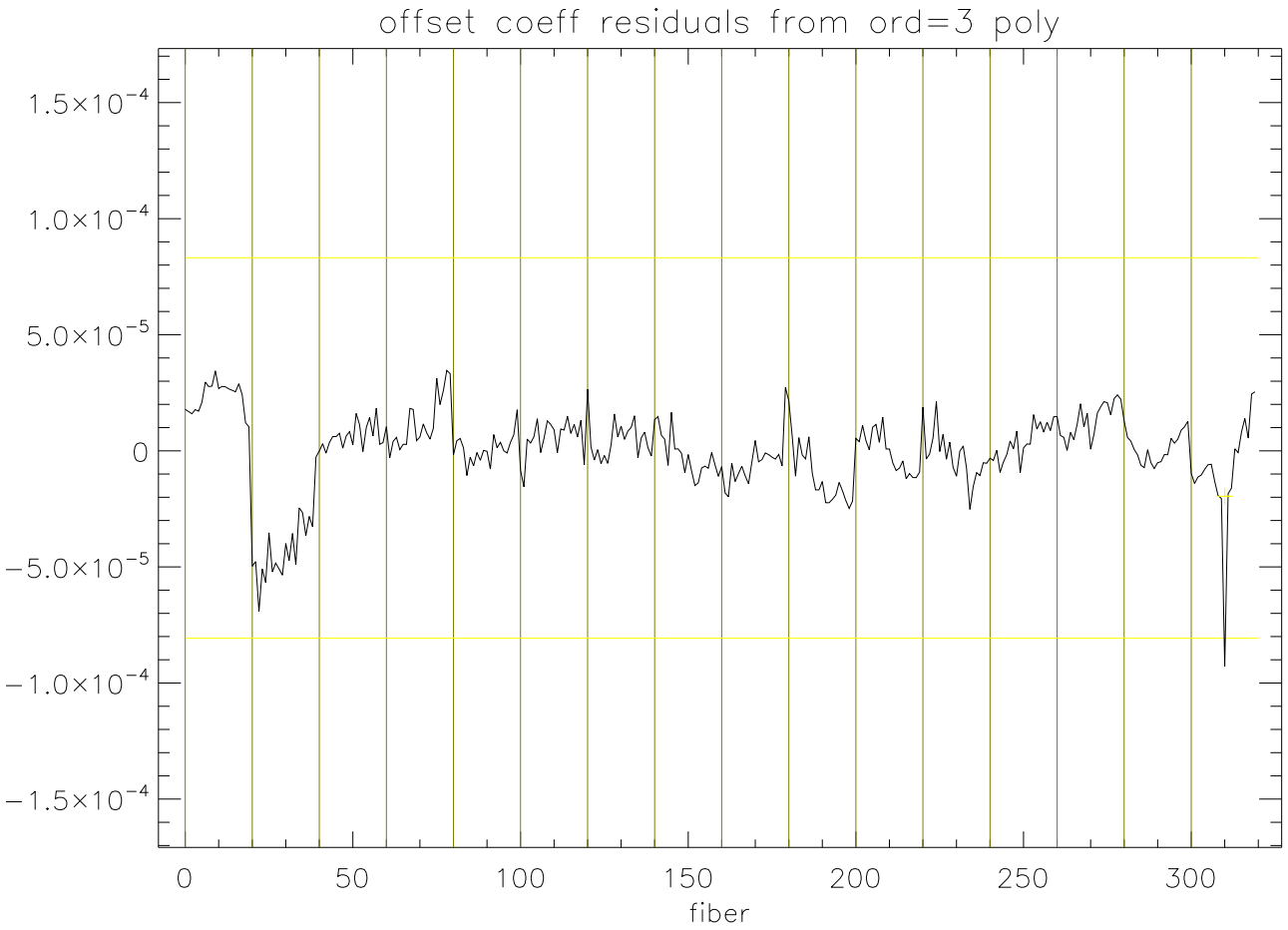

PLATE=2912 MJD=54498 sdR-r1-00049476.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.20 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

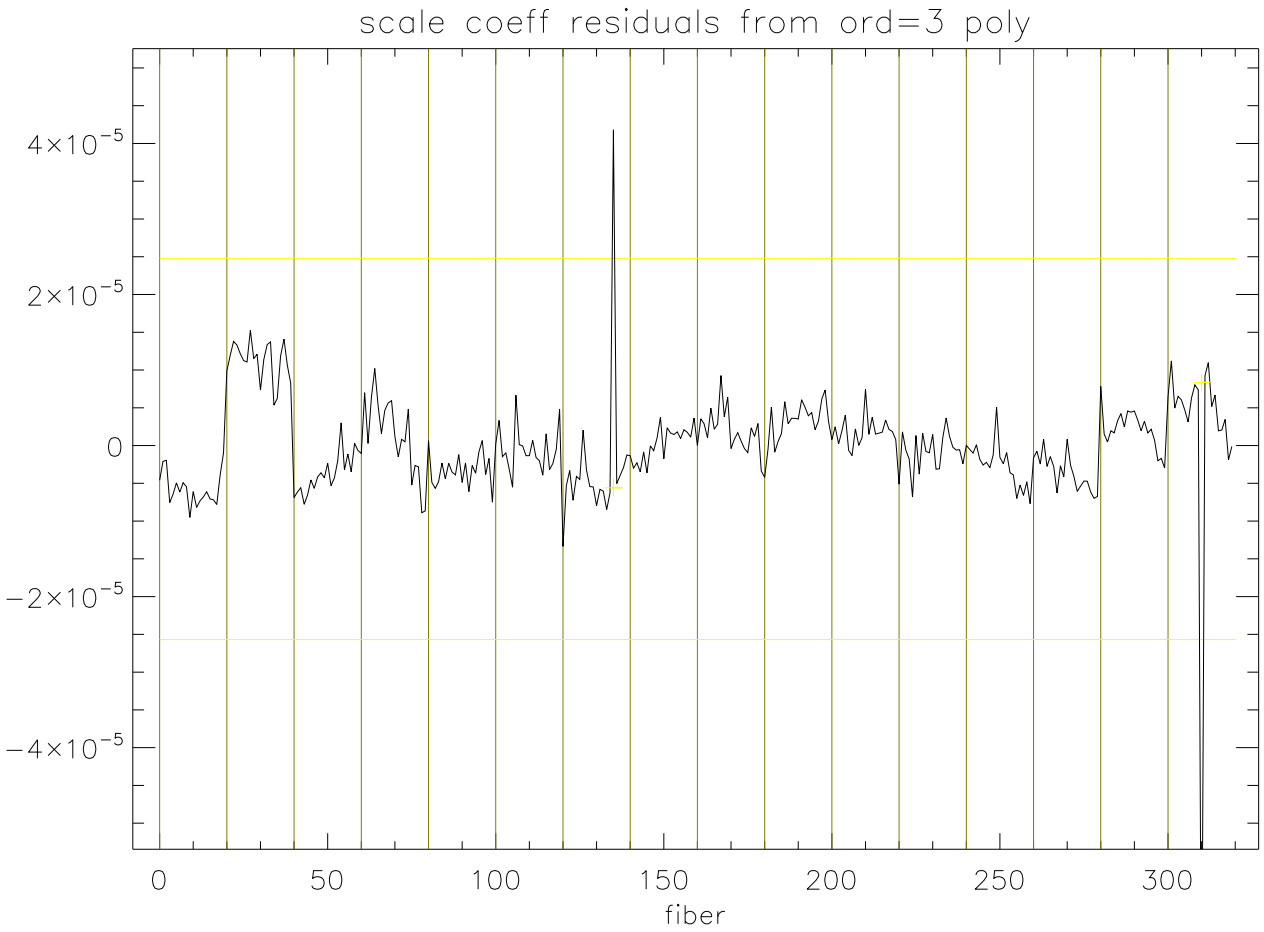

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

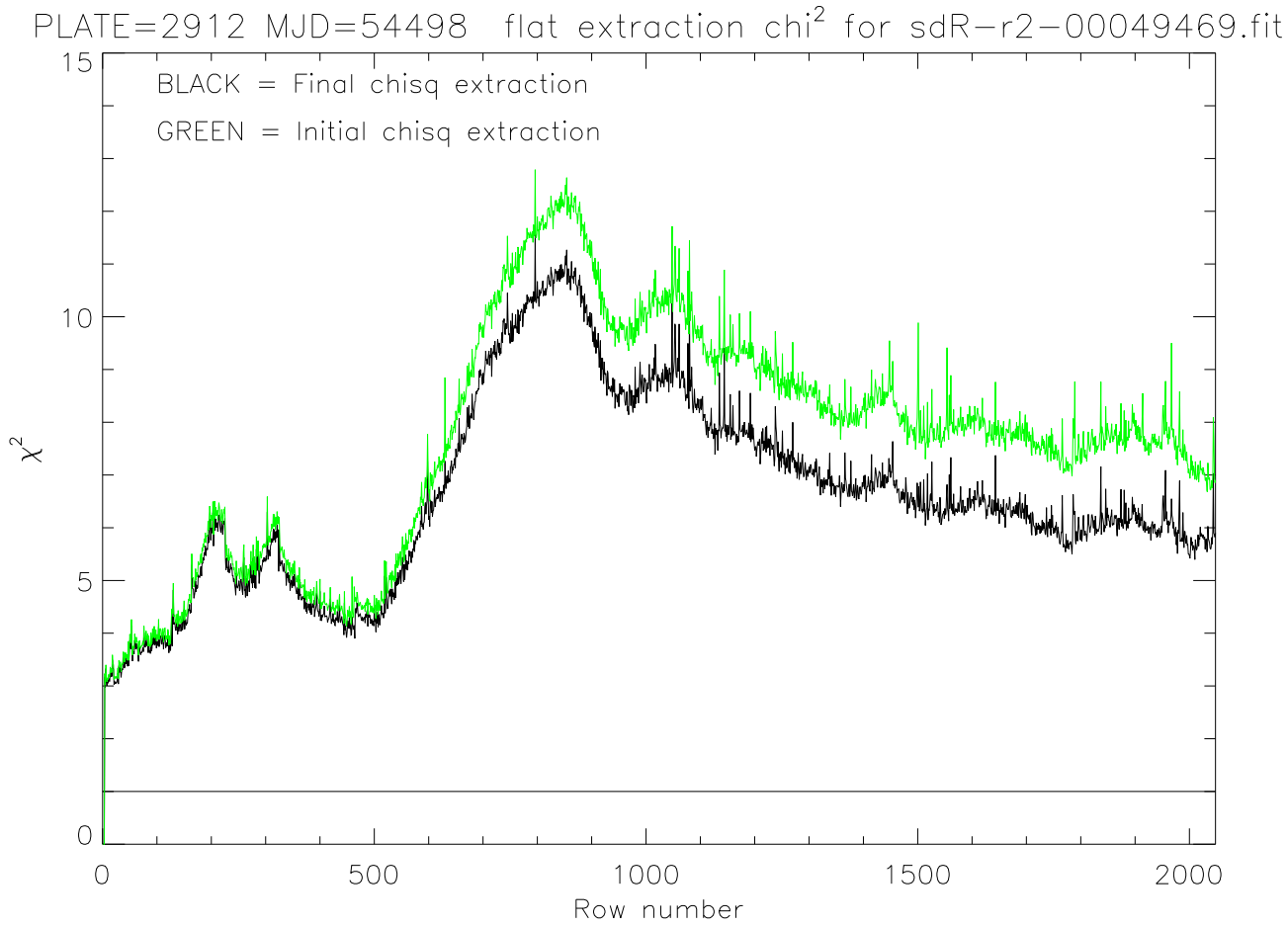

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

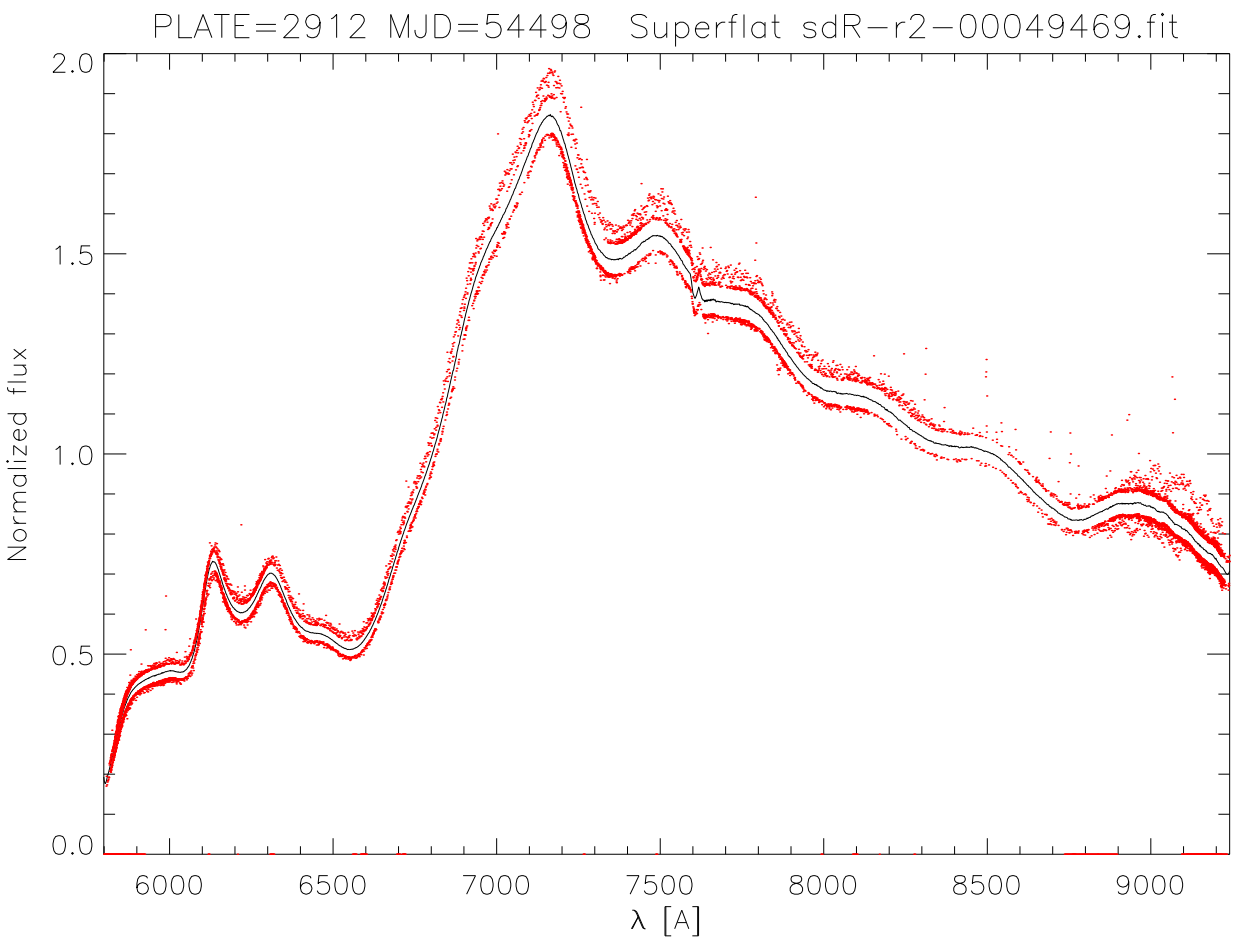

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

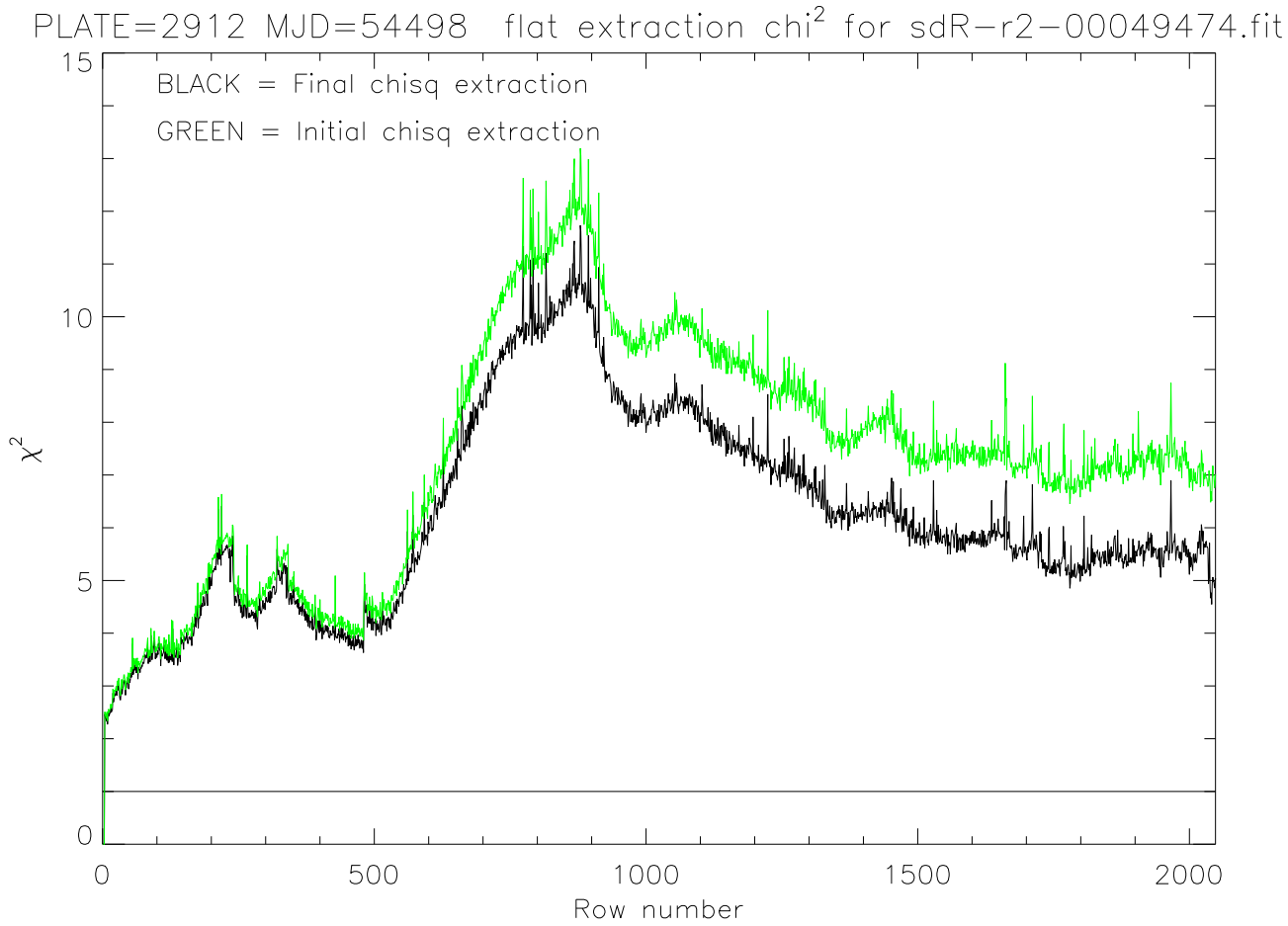

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

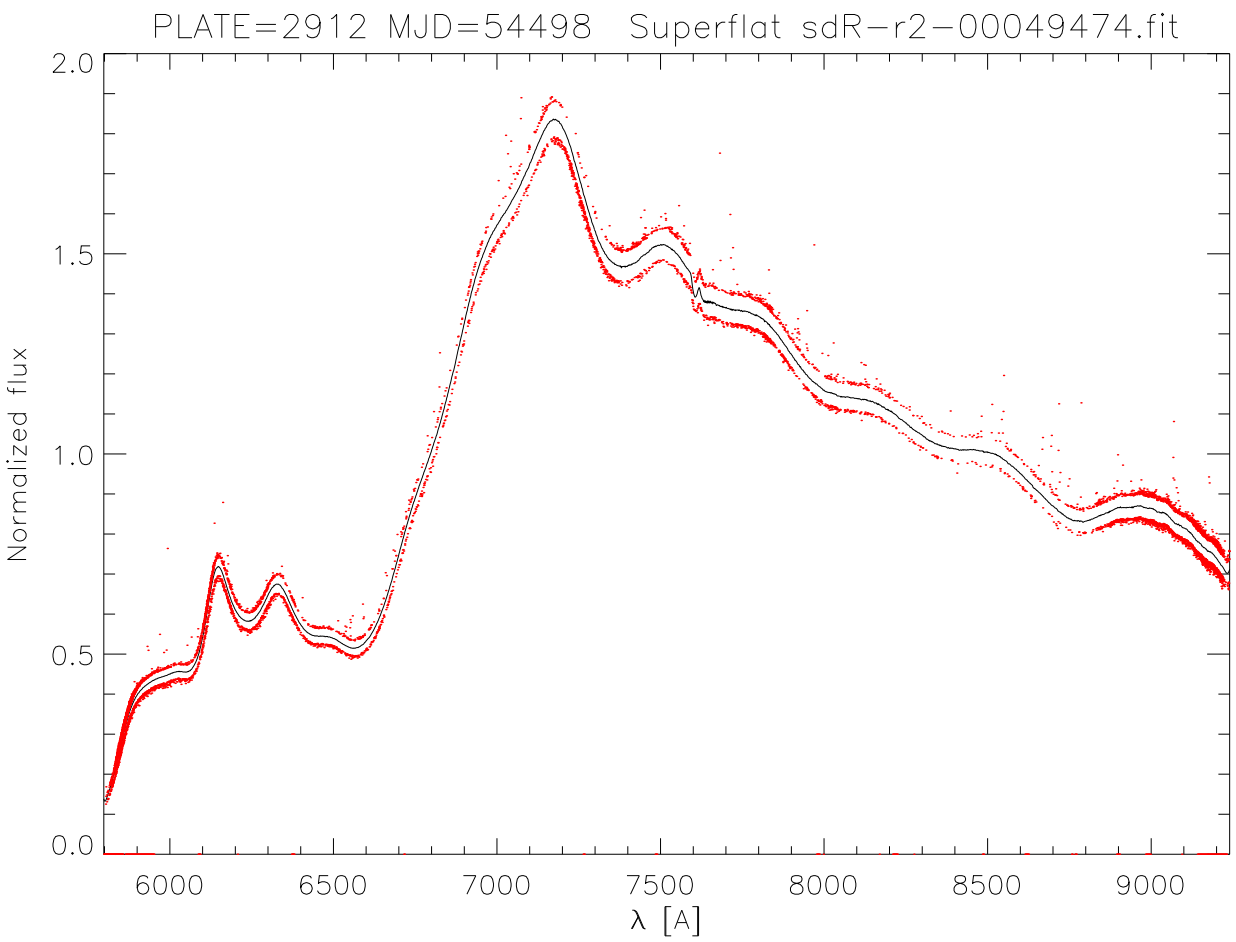

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

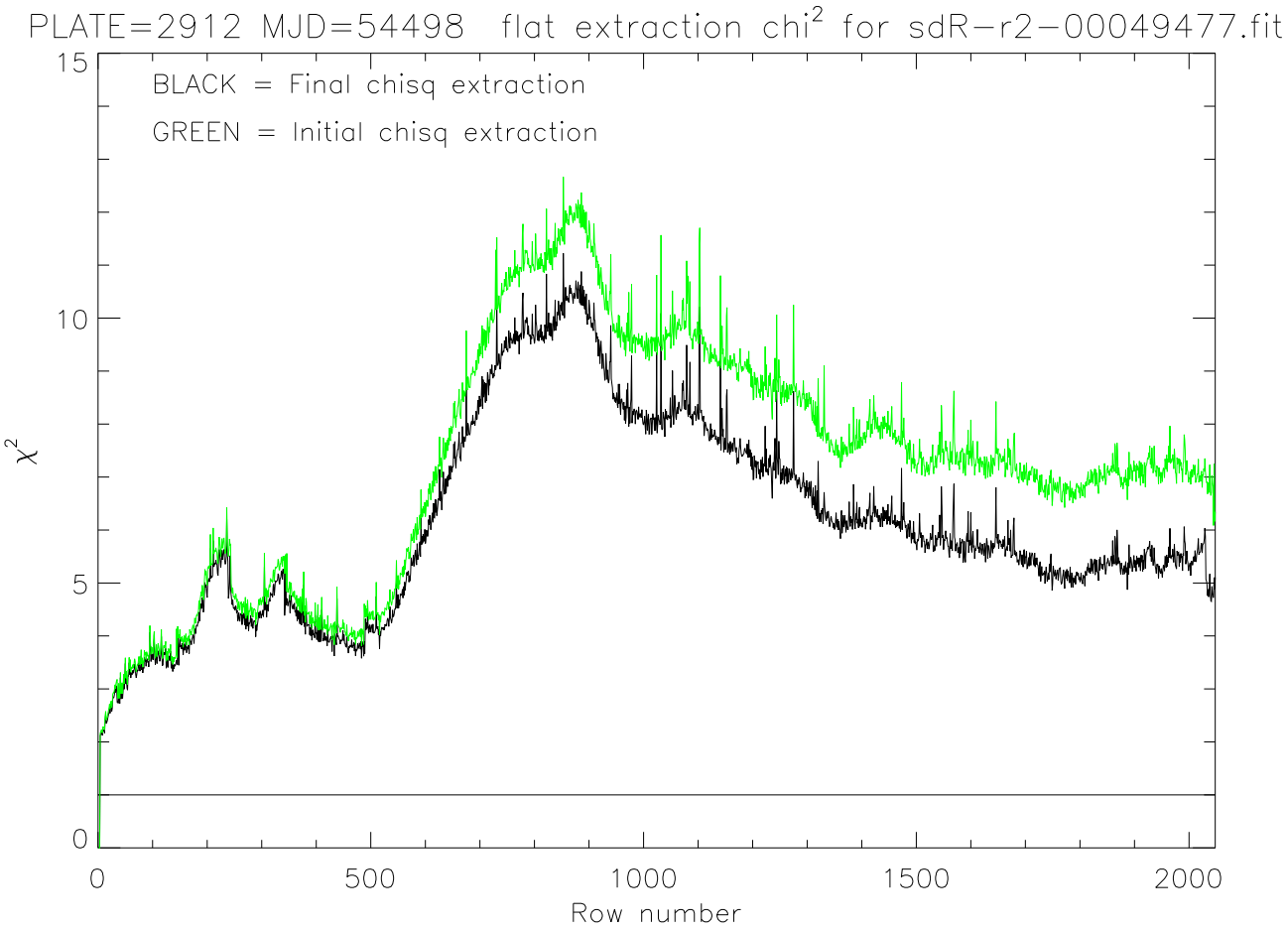

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

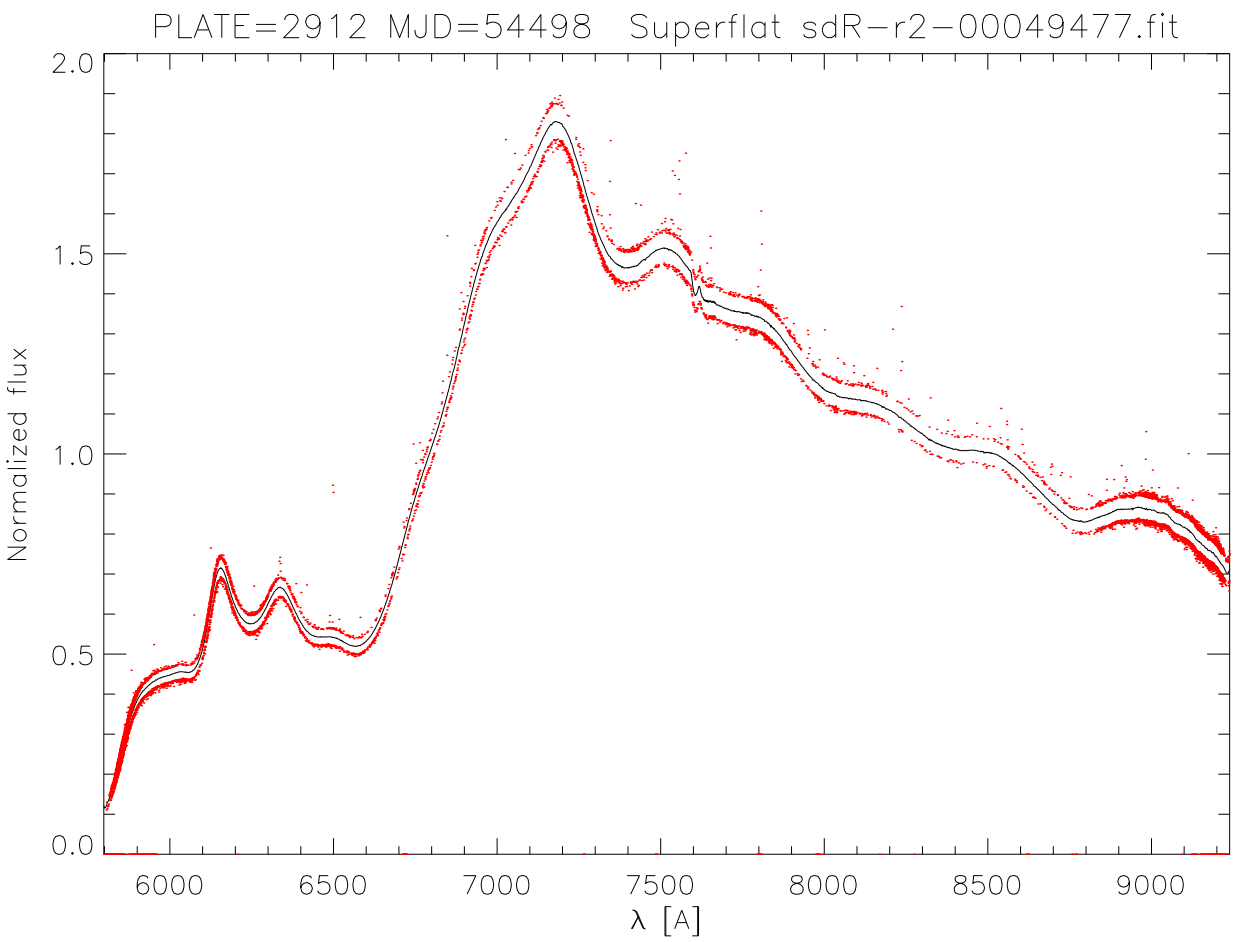

PLATE=2912 MJD=54498 flat extraction chi^2 for sdR−r2−00049469.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

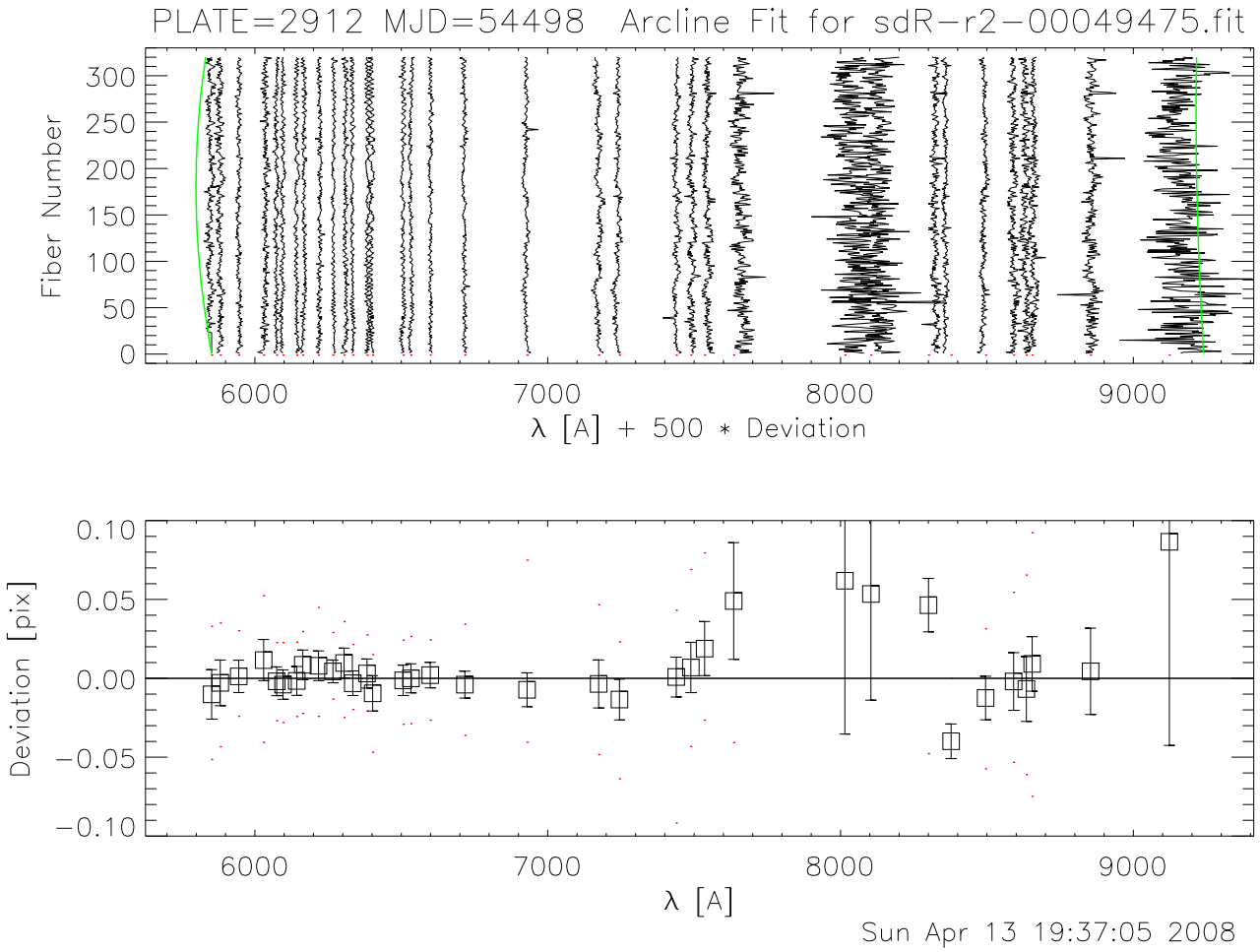

PLATE=2912 MJD=54498 Superflat sdR-r2-00049469.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

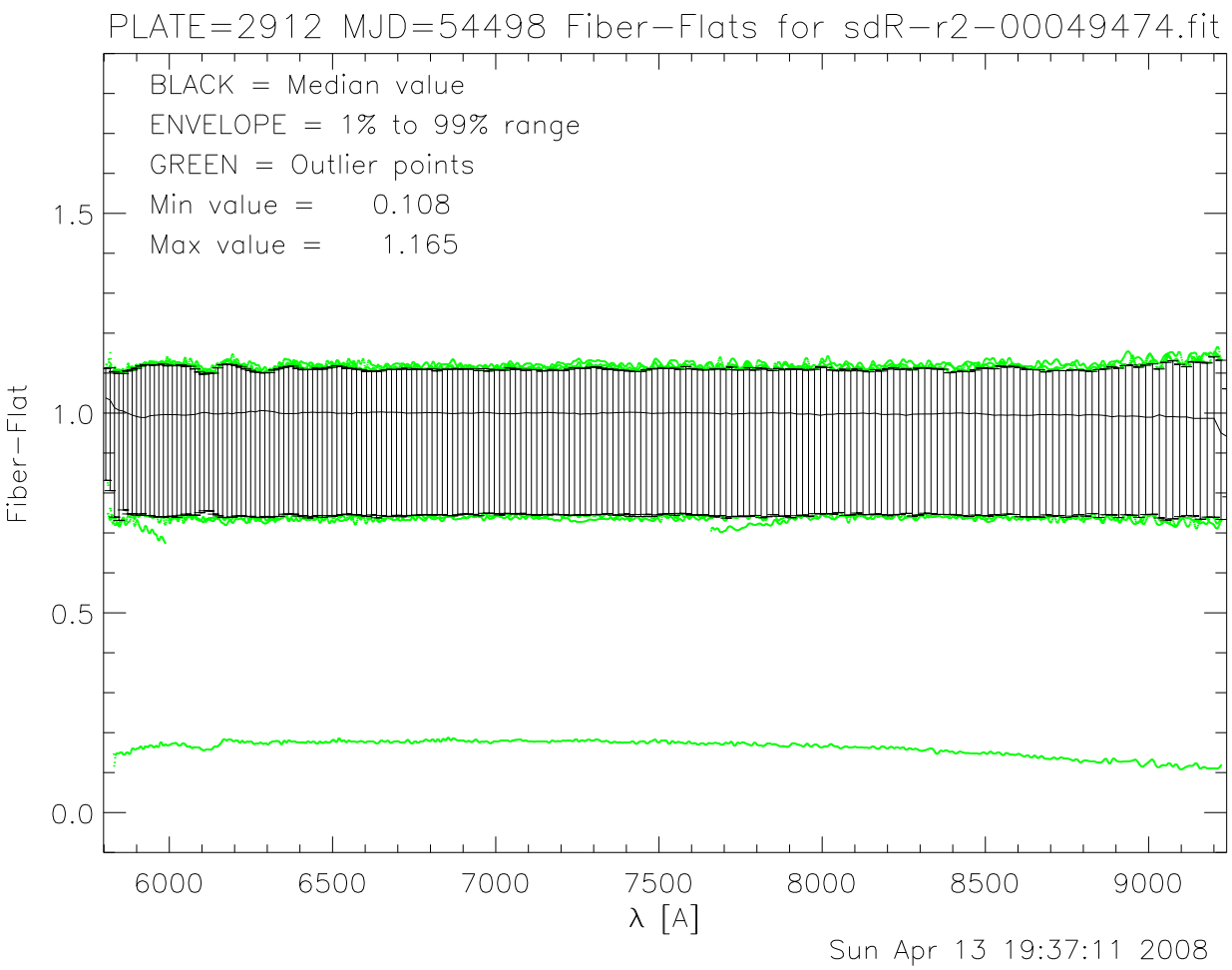

PLATE=2912 MJD=54498 flat extraction chi^2 for sdR−r2−00049474.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

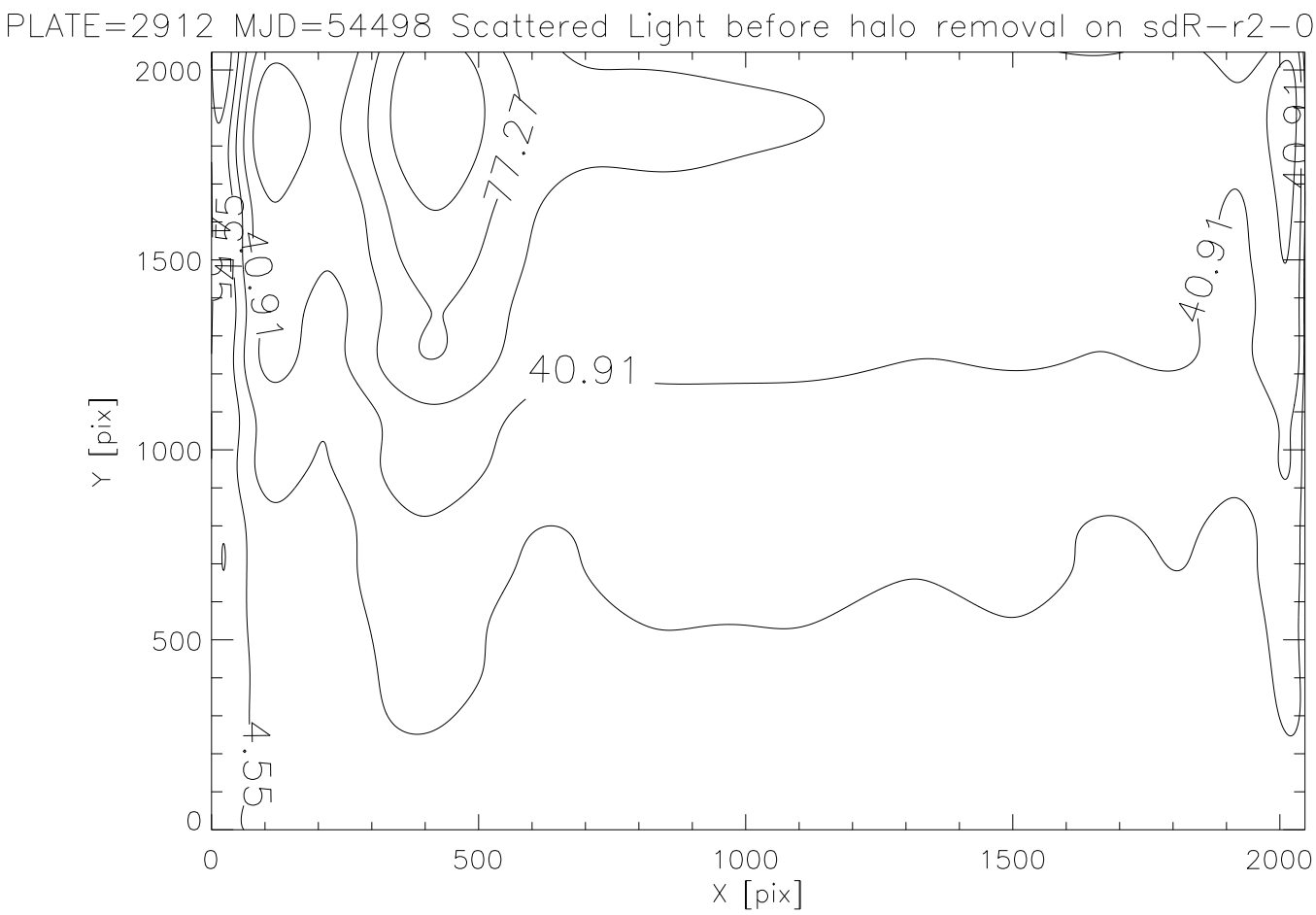

PLATE=2912 MJD=54498 Superflat sdR-r2-00049474.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

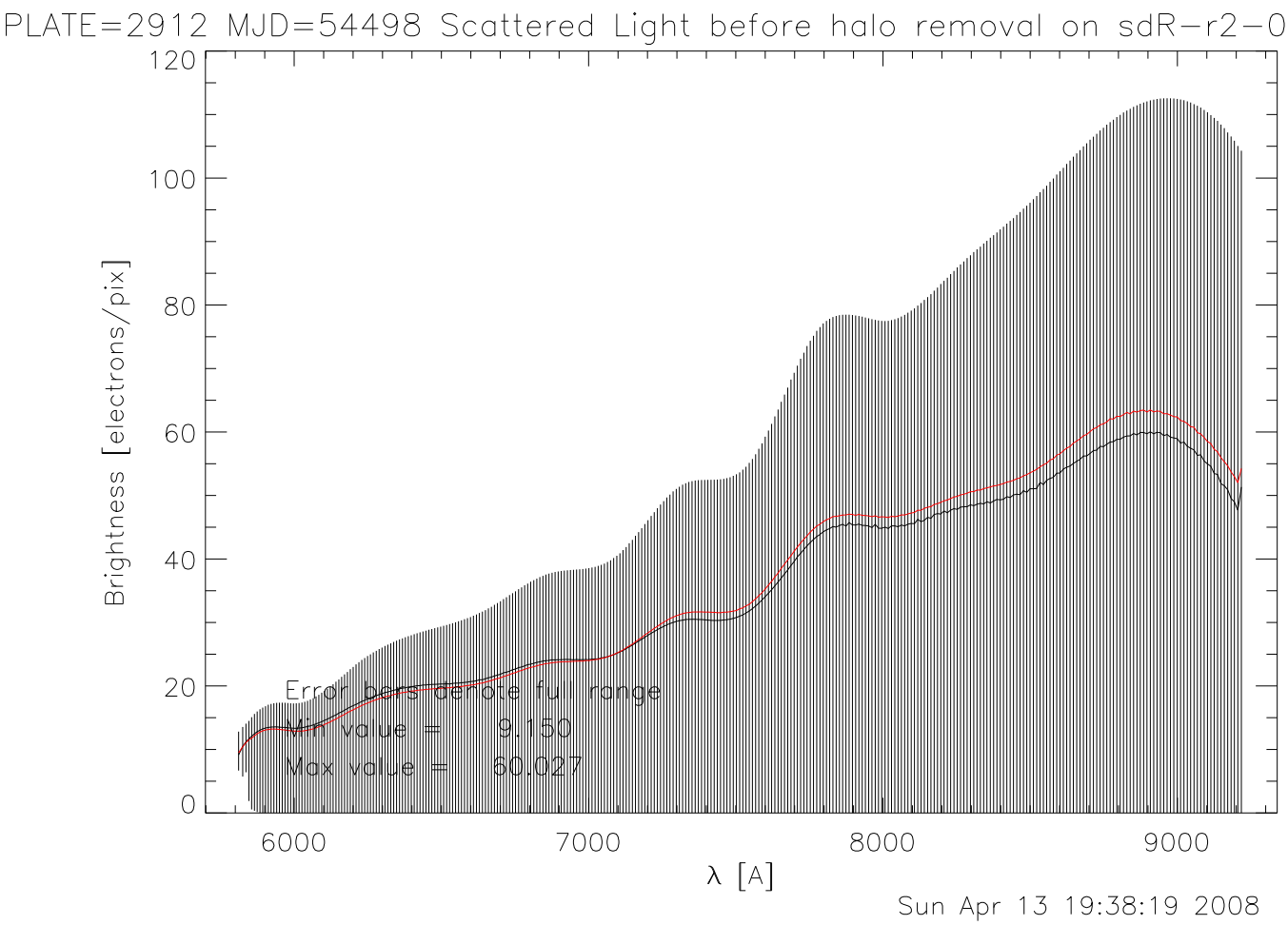

PLATE=2912 MJD=54498 flat extraction chi^2 for sdR−r2−00049477.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

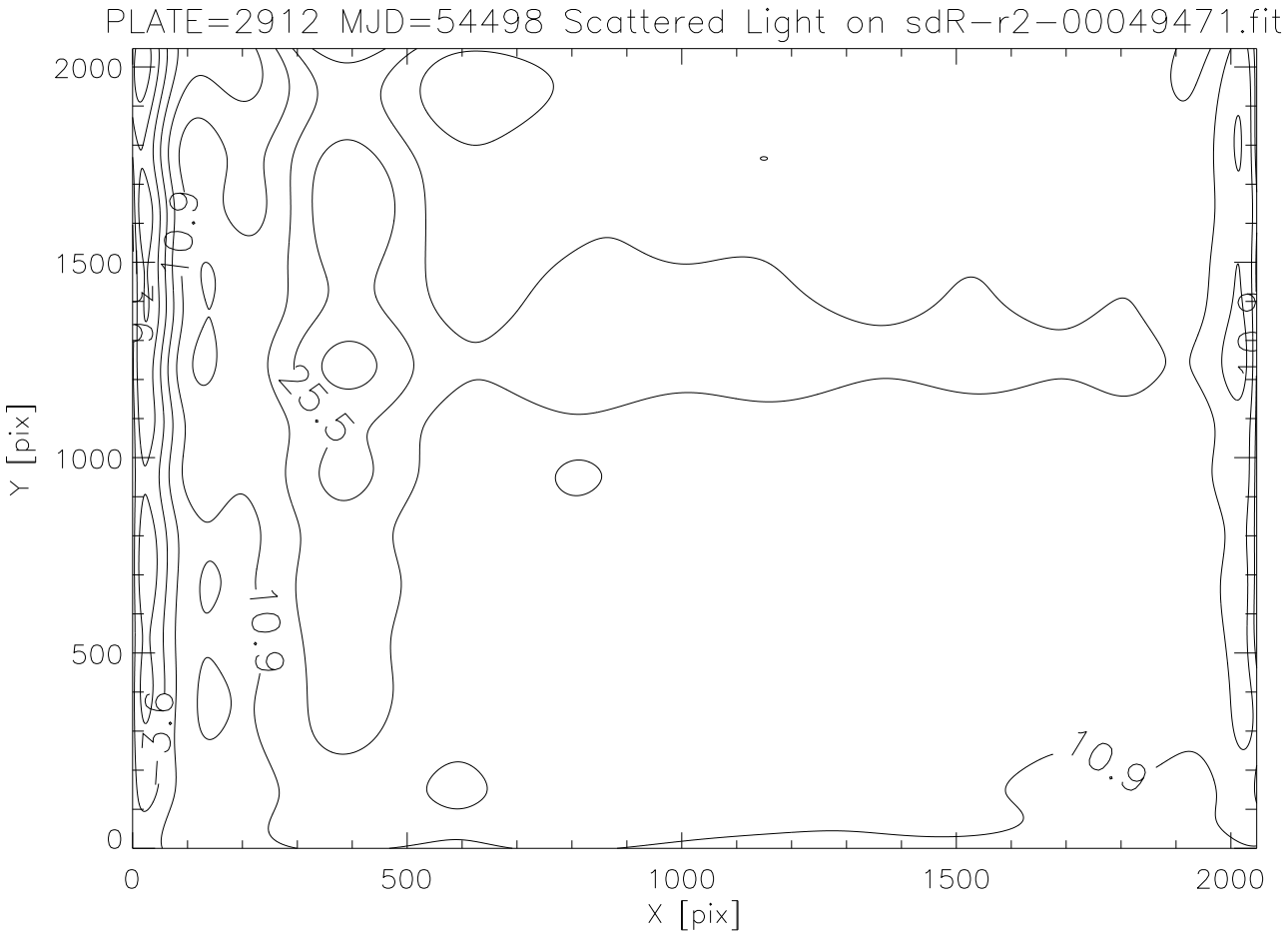

PLATE=2912 MJD=54498 Superflat sdR-r2-00049477.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

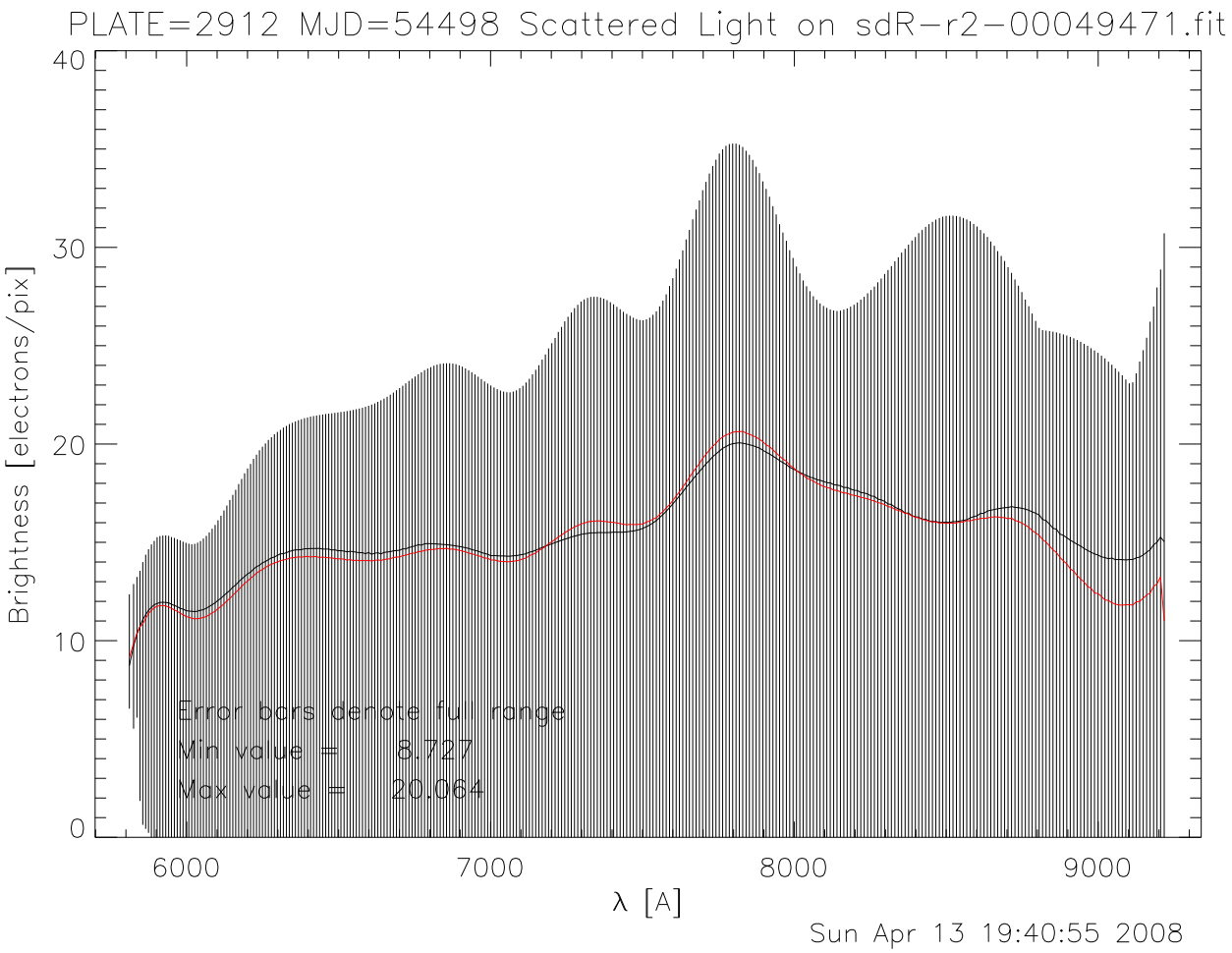

PLATE=2912 MJD=54498 Arcline Fit for sdR-r2-00049475.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sun Apr 13 19:37:05 2008

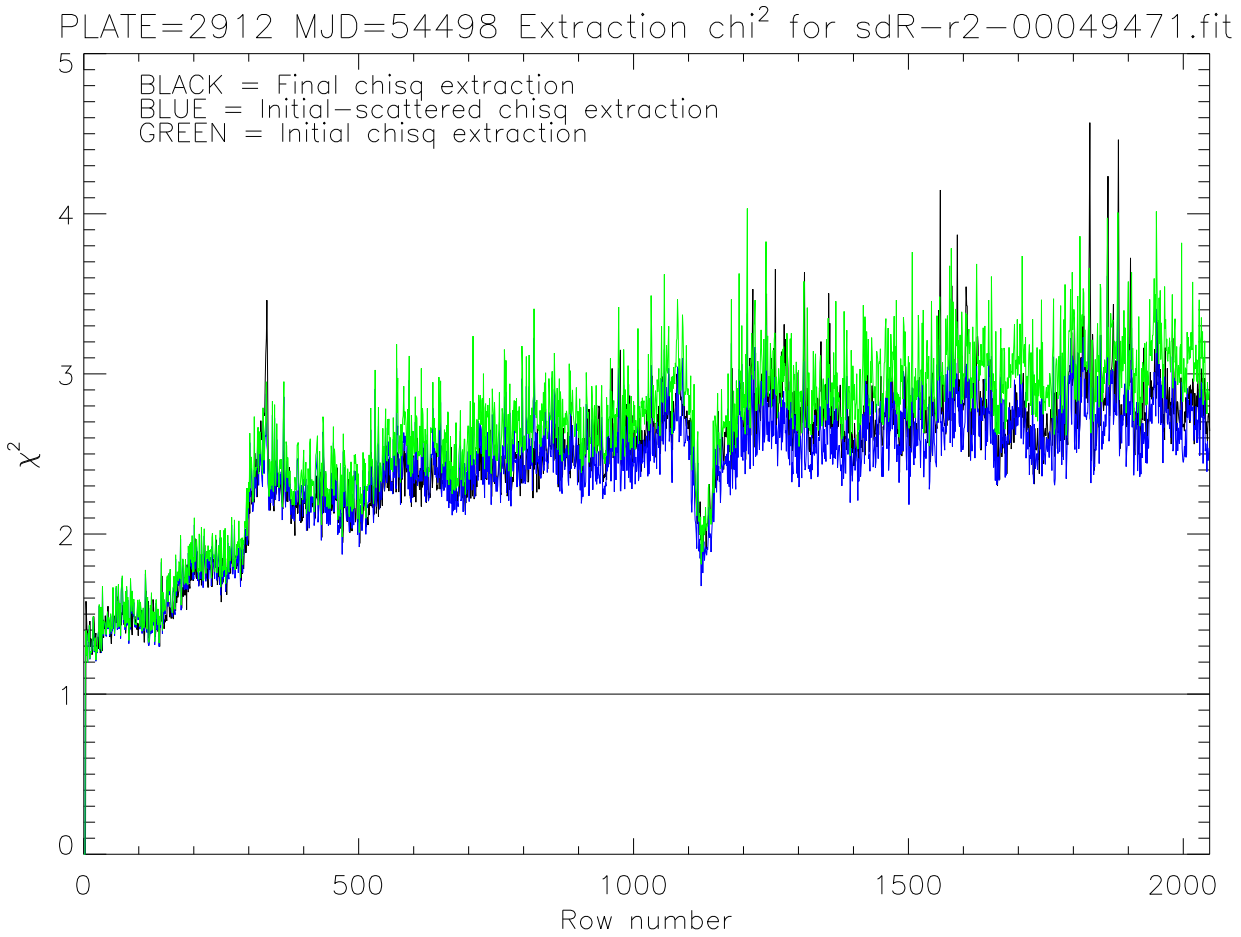

PLATE=2912 MJD=54498 Fiber-Flats for sdR-r2-00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.108
Max value = 1.165
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Apr 13 19:37:11 2008

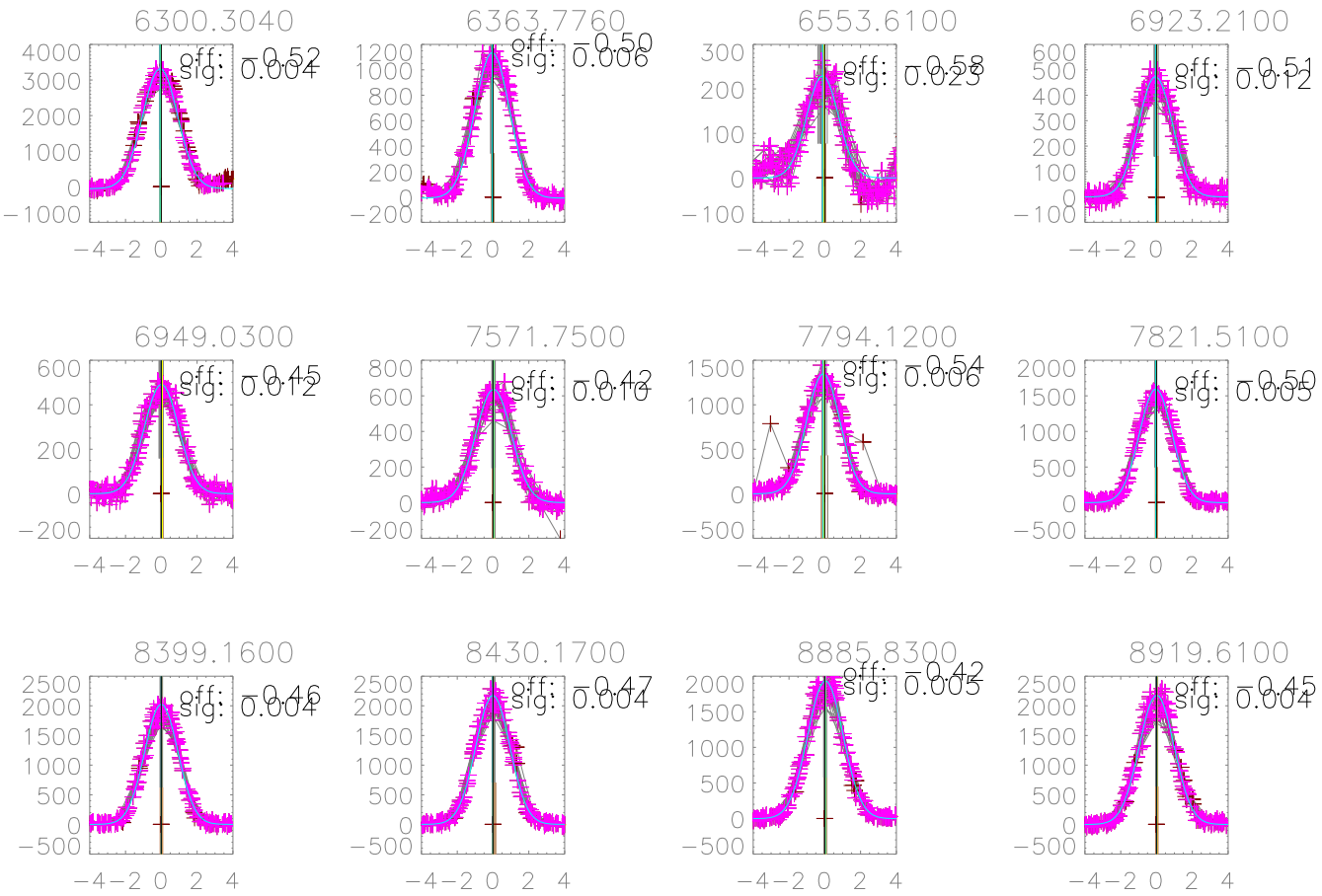

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r2-00049471.fi
77.27
40.91
40.91
40.91
40.91
4.55
4.55
Y [pix]
X [pix]
0
500
1000
1500
2000

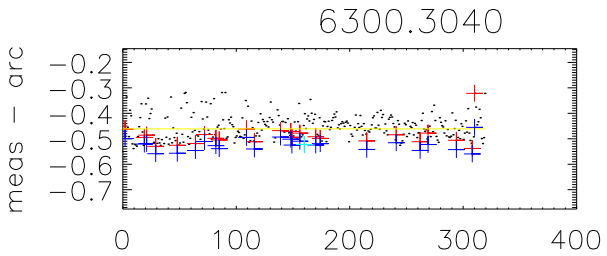

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r2-00049471.fi
Brightness [electrons/pix]
120
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 9.150
Max value = 60.027
Sun Apr 13 19:38:19 2008

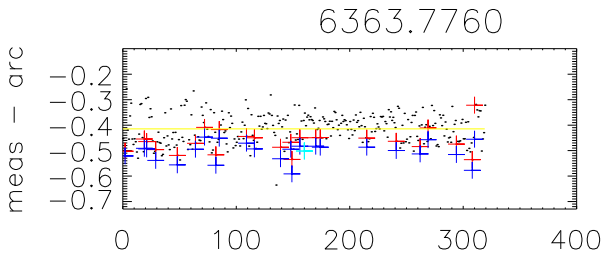

PLATE=2912 MJD=54498 Scattered Light on sdR-r2-00049471.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
10.9
25.5
10.9
13.6
10.9
10.9

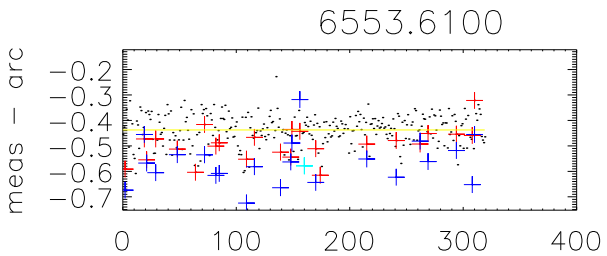

PLATE=2912 MJD=54498 Scattered Light on sdR-r2-00049471.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.727
Max value = 20.064
Sun Apr 13 19:40:55 2008

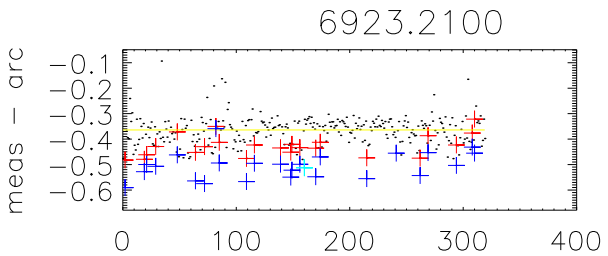

PLATE=2912 MJD=54498 Extraction chi^2 for sdR−r2−00049471.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

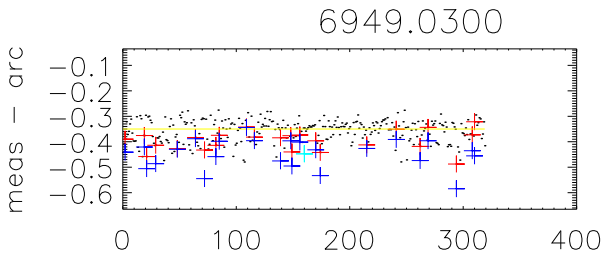

6300.3040
off: −0.52
sig: 0.004
6363.7760
off: −0.50
sig: 0.006
6553.6100
off: −0.58
sig: 0.023
6923.2100
off: −0.51
sig: 0.012
6949.0300
off: −0.45
sig: 0.012
7571.7500
off: −0.42
sig: 0.010
7794.1200
off: −0.54
sig: 0.006
7821.5100
off: −0.50
sig: 0.005
8399.1600
off: −0.46
sig: 0.004
8430.1700
off: −0.47
sig: 0.004
8885.8300
off: −0.42
sig: 0.005
8919.6100
off: −0.45
sig: 0.004

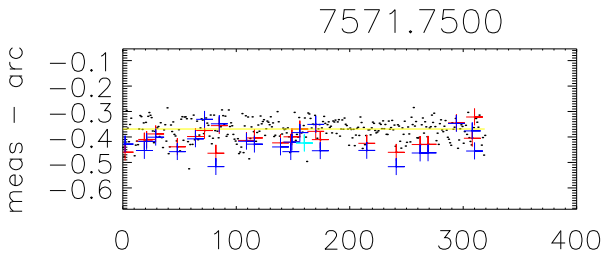

6300.3040
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

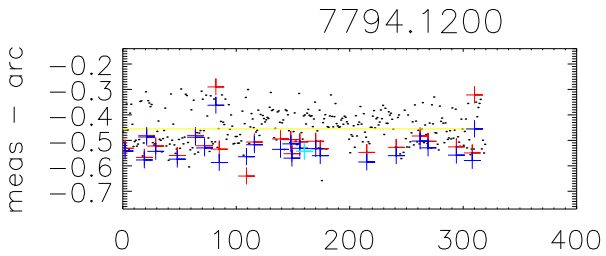

6363.7760
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

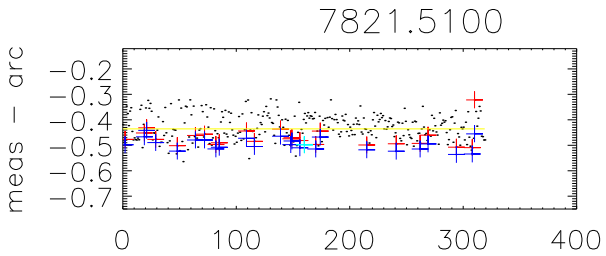

6553.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

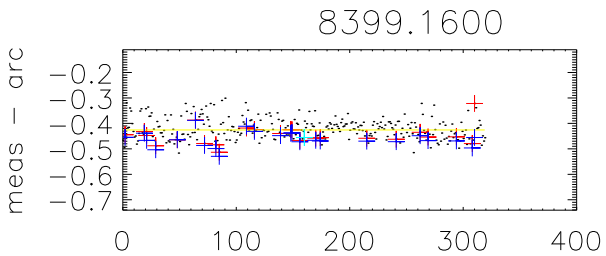

6923.2100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

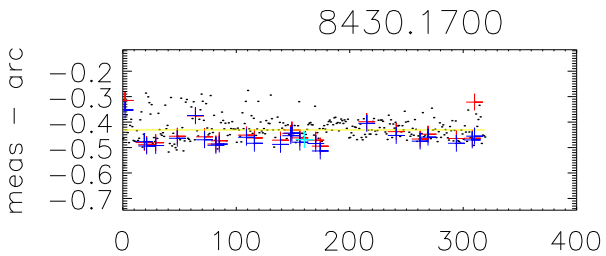

6949.0300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

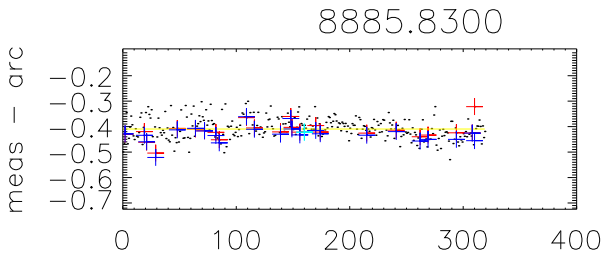

7571.7500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

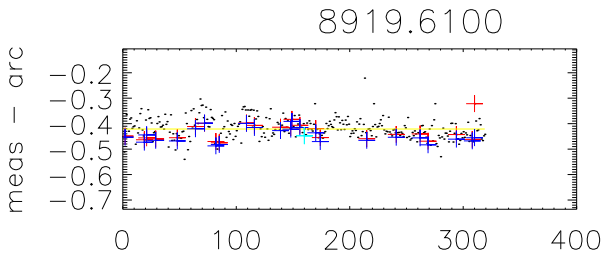

7794.1200
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

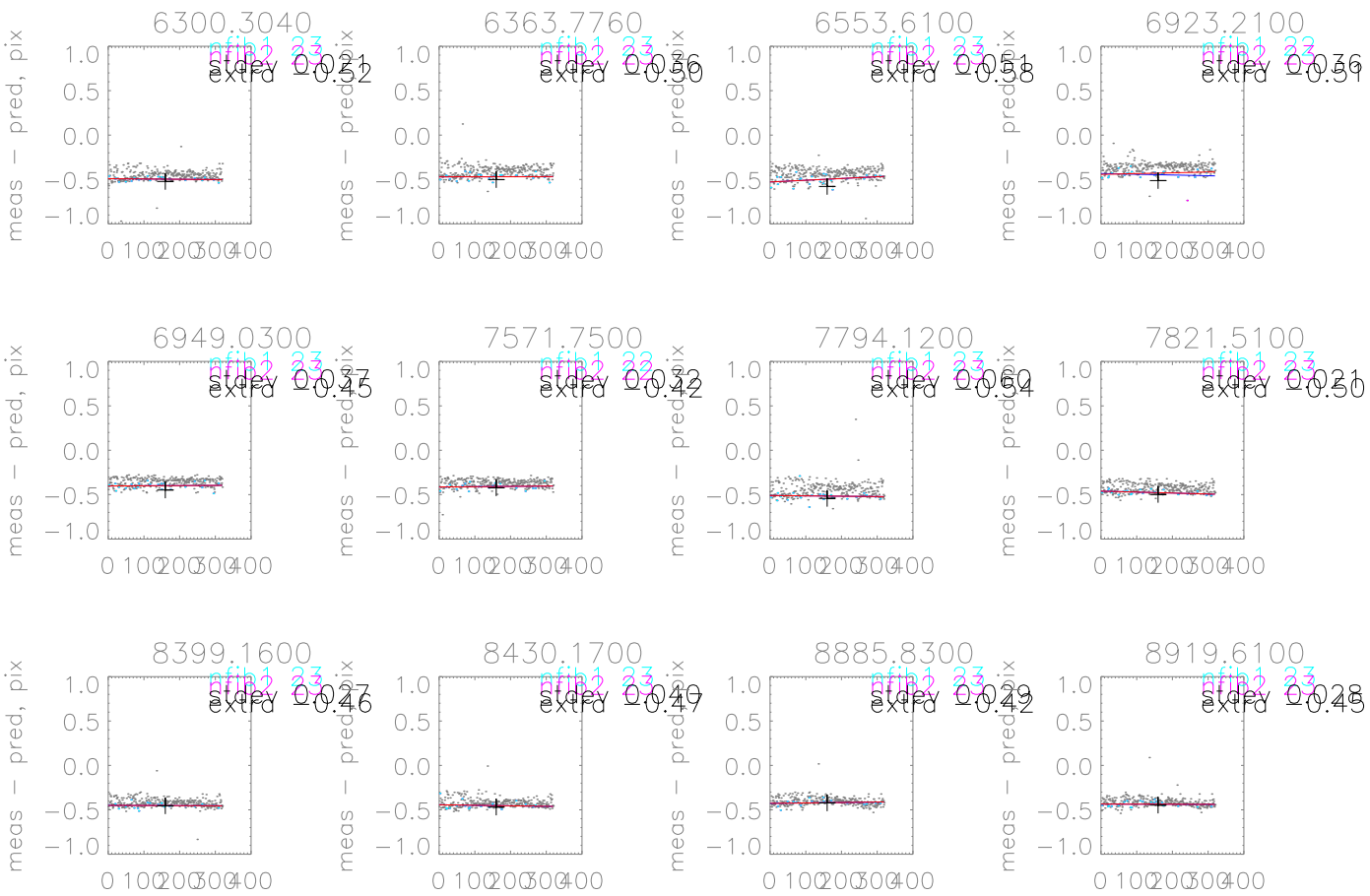

7821.5100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

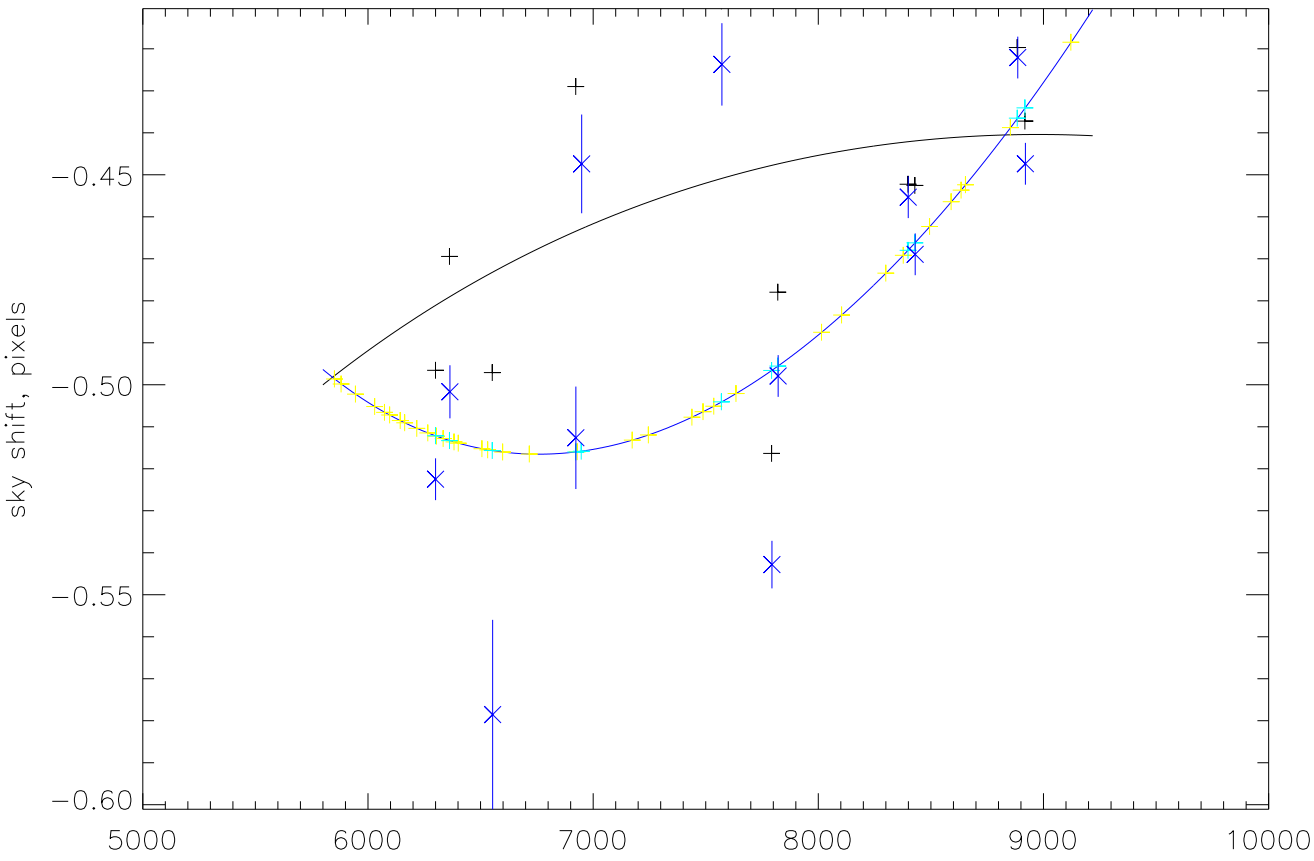

8399.1600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400


8430.1700
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

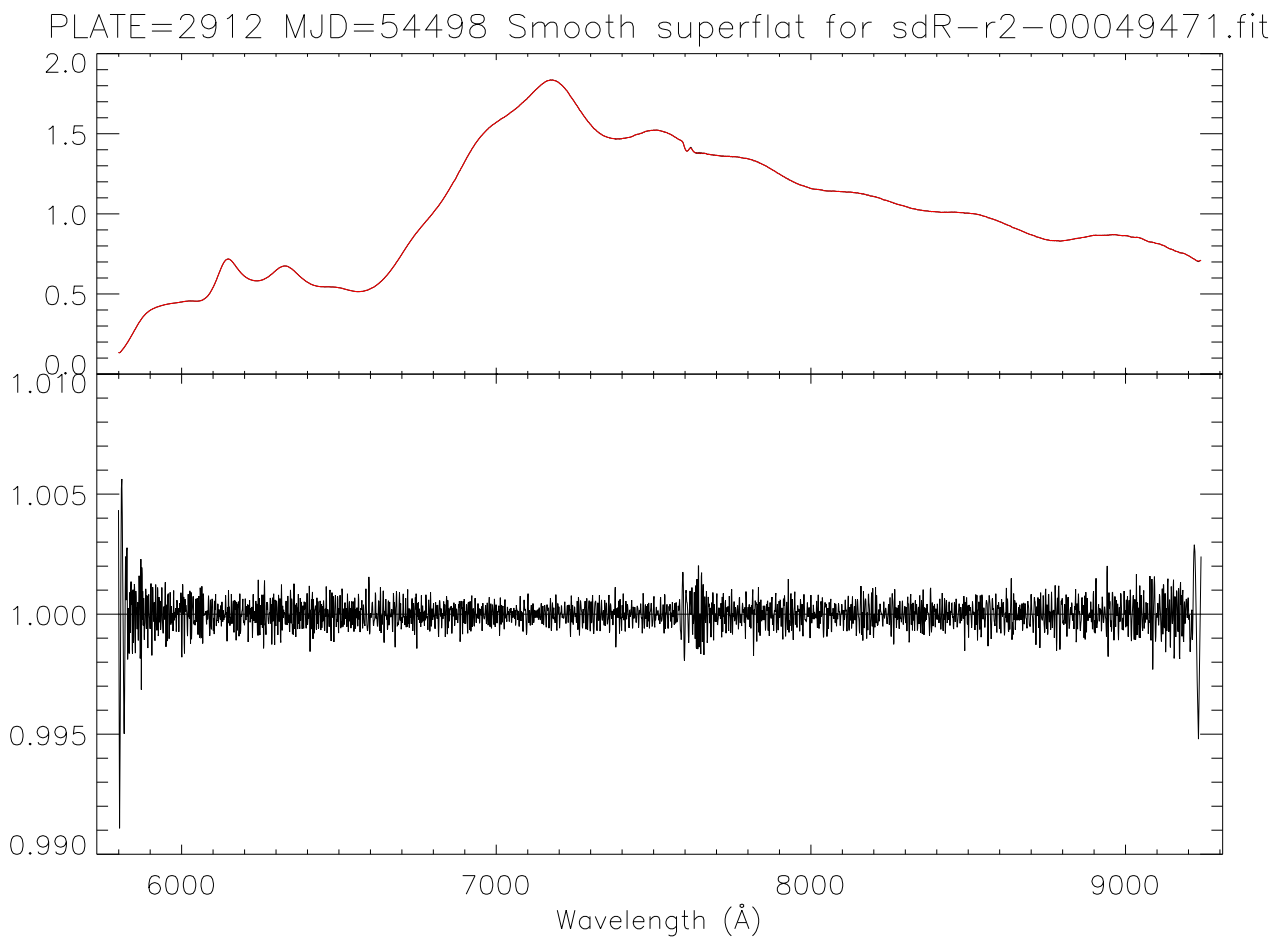

8885.8300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

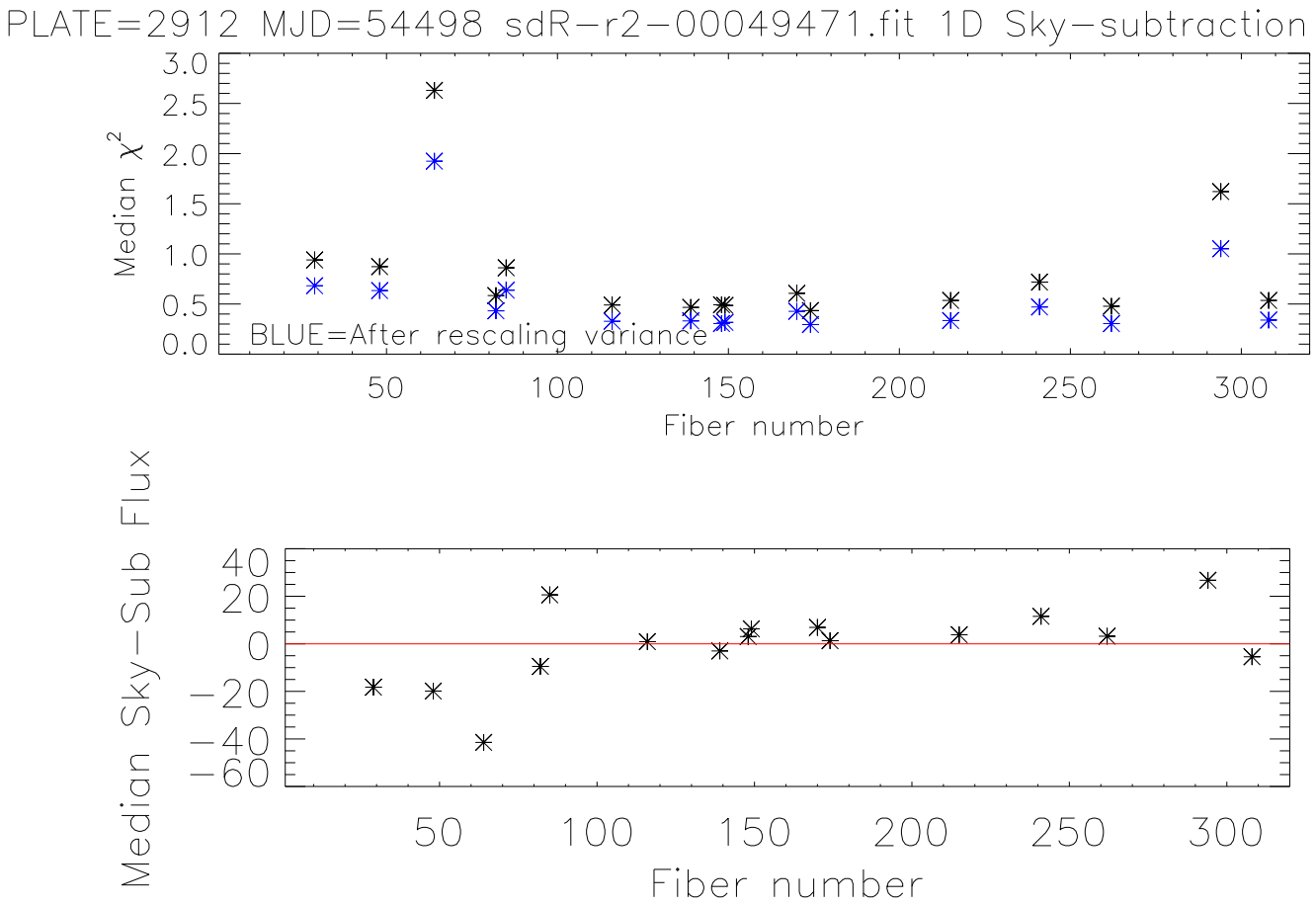

8919.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

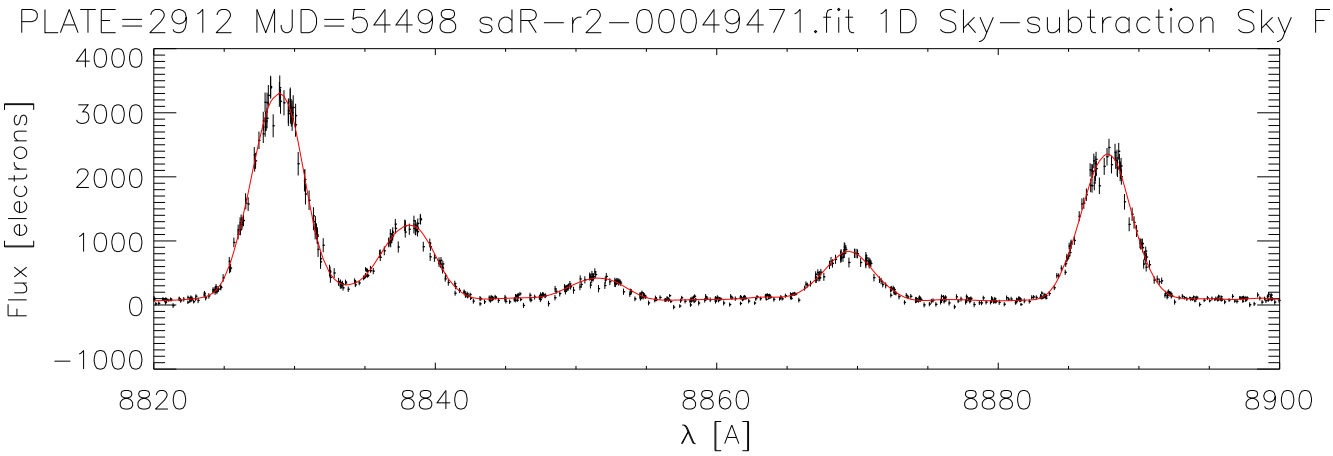

6300.3040
stdev 0.021
extra −0.52
6363.7760
stdev 0.036
extra −0.50
6553.6100
stdev 0.051
extra −0.58
6923.2100
stdev 0.036
extra −0.51
6949.0300
stdev 0.037
extra −0.45
7571.7500
stdev 0.032
extra −0.42
7794.1200
stdev 0.060
extra −0.54
7821.5100
stdev 0.021
extra −0.50
8399.1600
stdev 0.027
extra −0.46
8430.1700
stdev 0.040
extra −0.47
8885.8300
stdev 0.029
extra −0.42
8919.6100
stdev 0.028
extra −0.45
meas − pred, pix
mfhb1 23
mfhb2 23

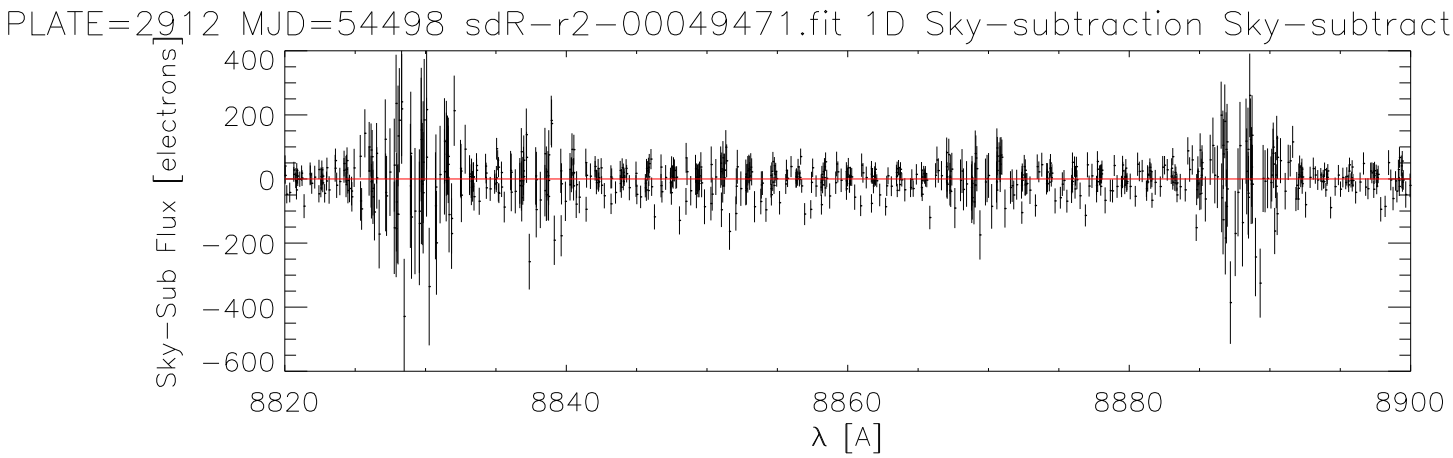

sky shift, pixels
−0.45
−0.50
−0.55
−0.60
5000
6000
7000
8000
9000
10000

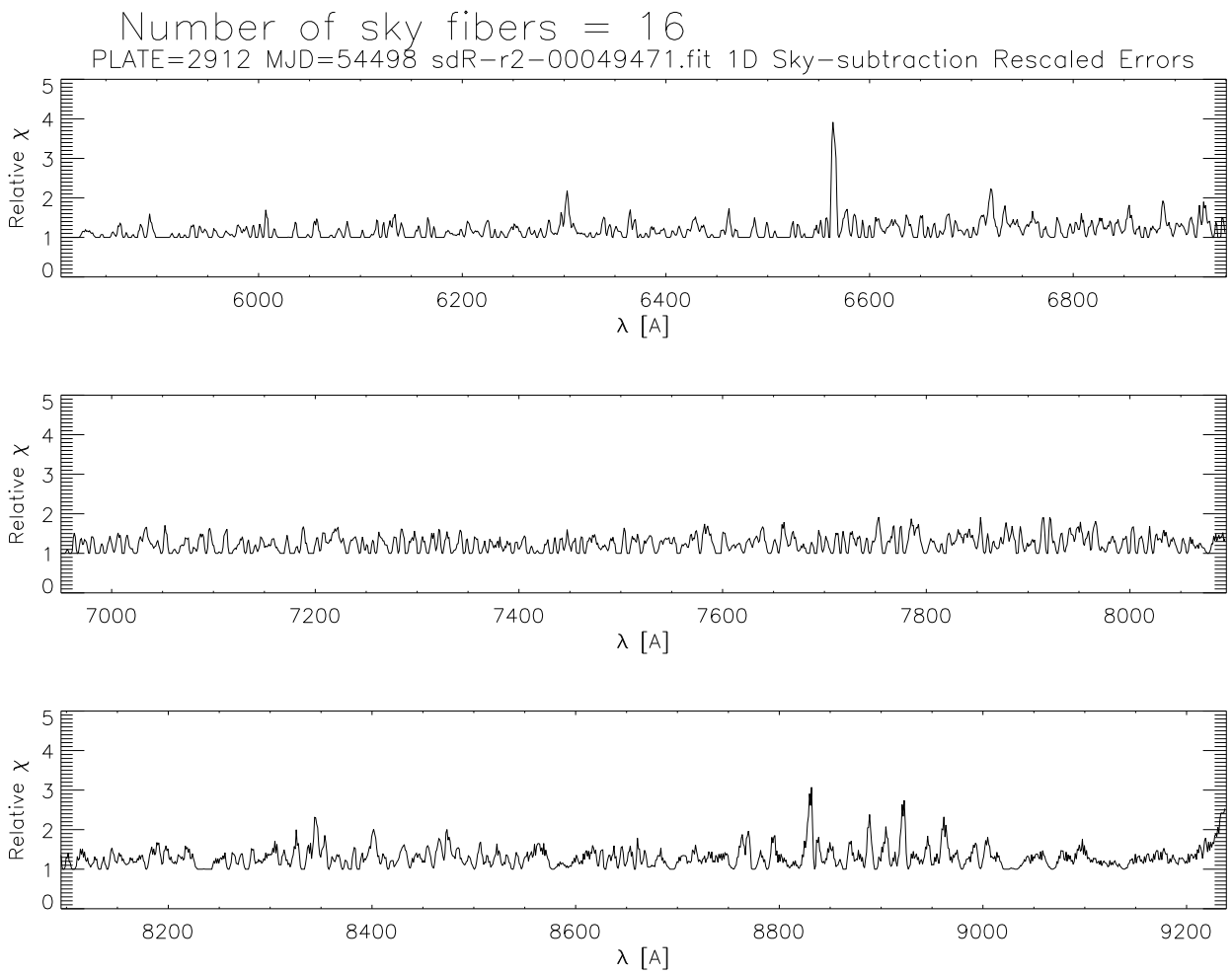
es= −0.0000

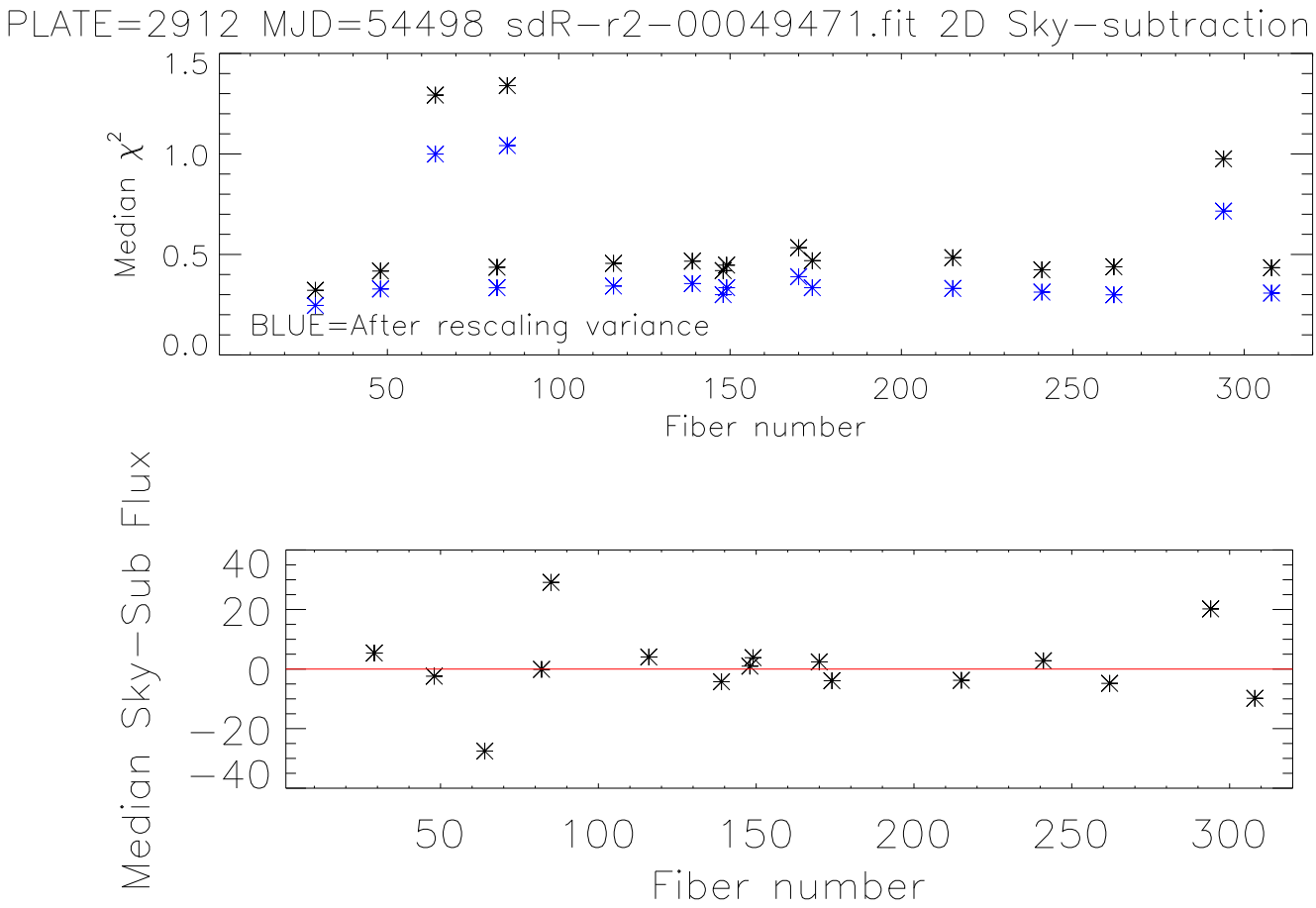

PLATE=2912 MJD=54498 Smooth superflat for sdR−r2−00049471.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

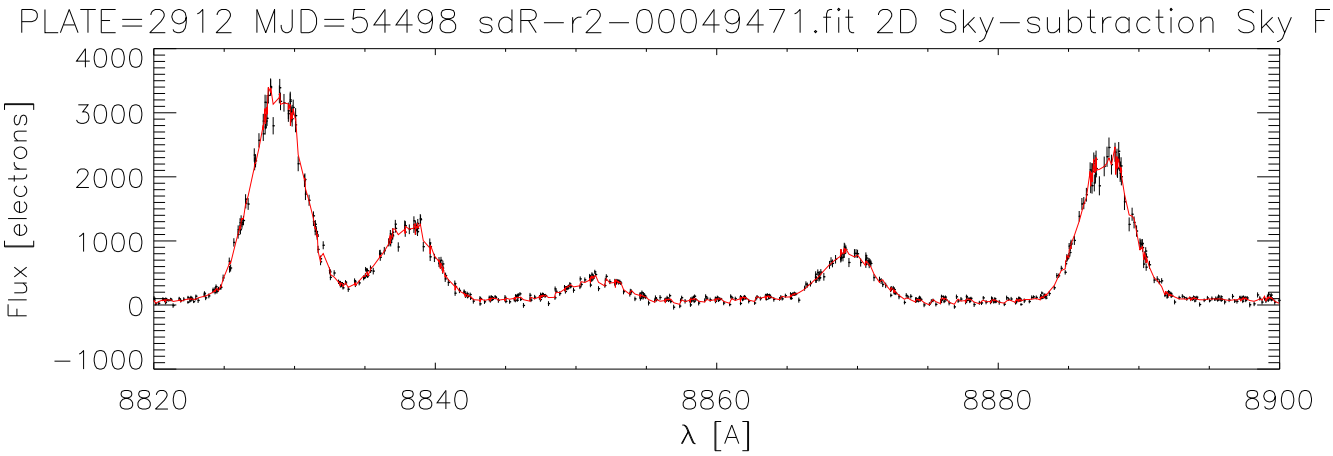

PLATE=2912 MJD=54498 sdR-r2-00049471.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

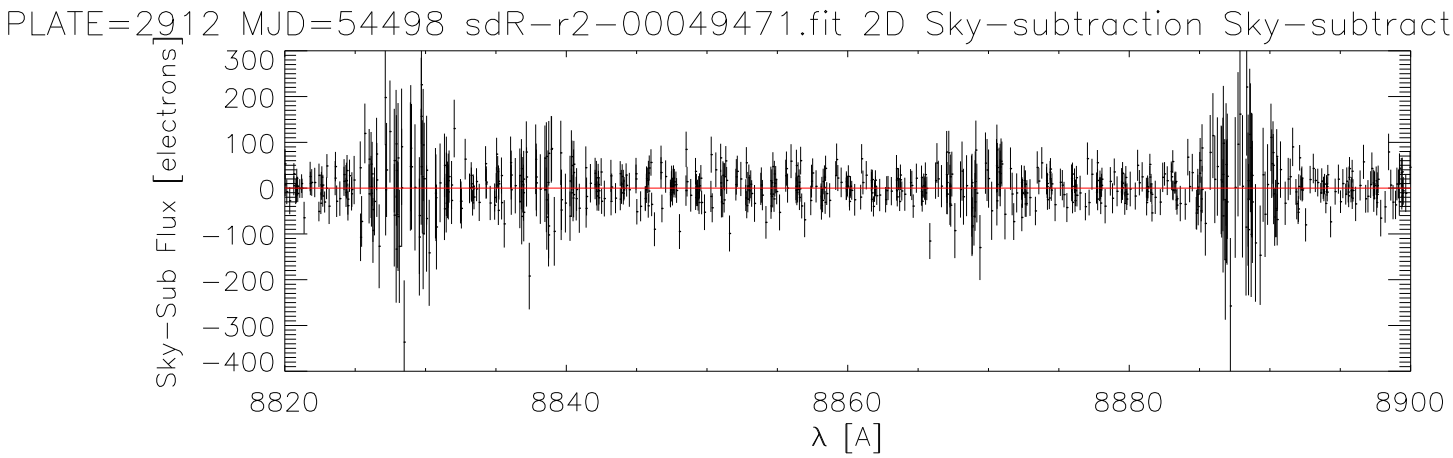

PLATE=2912 MJD=54498 sdR-r2-00049471.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

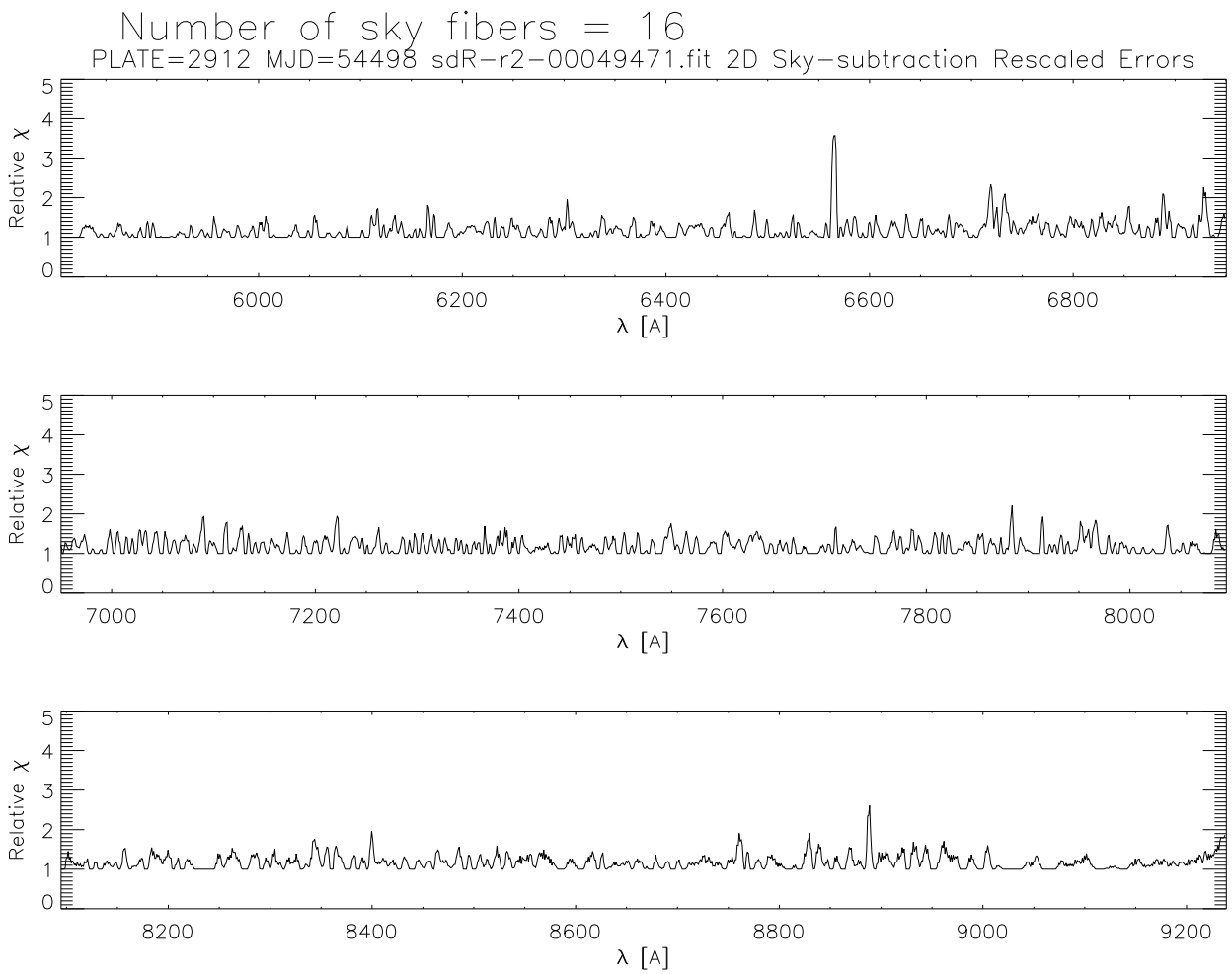

PLATE=2912 MJD=54498 sdR-r2-00049471.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

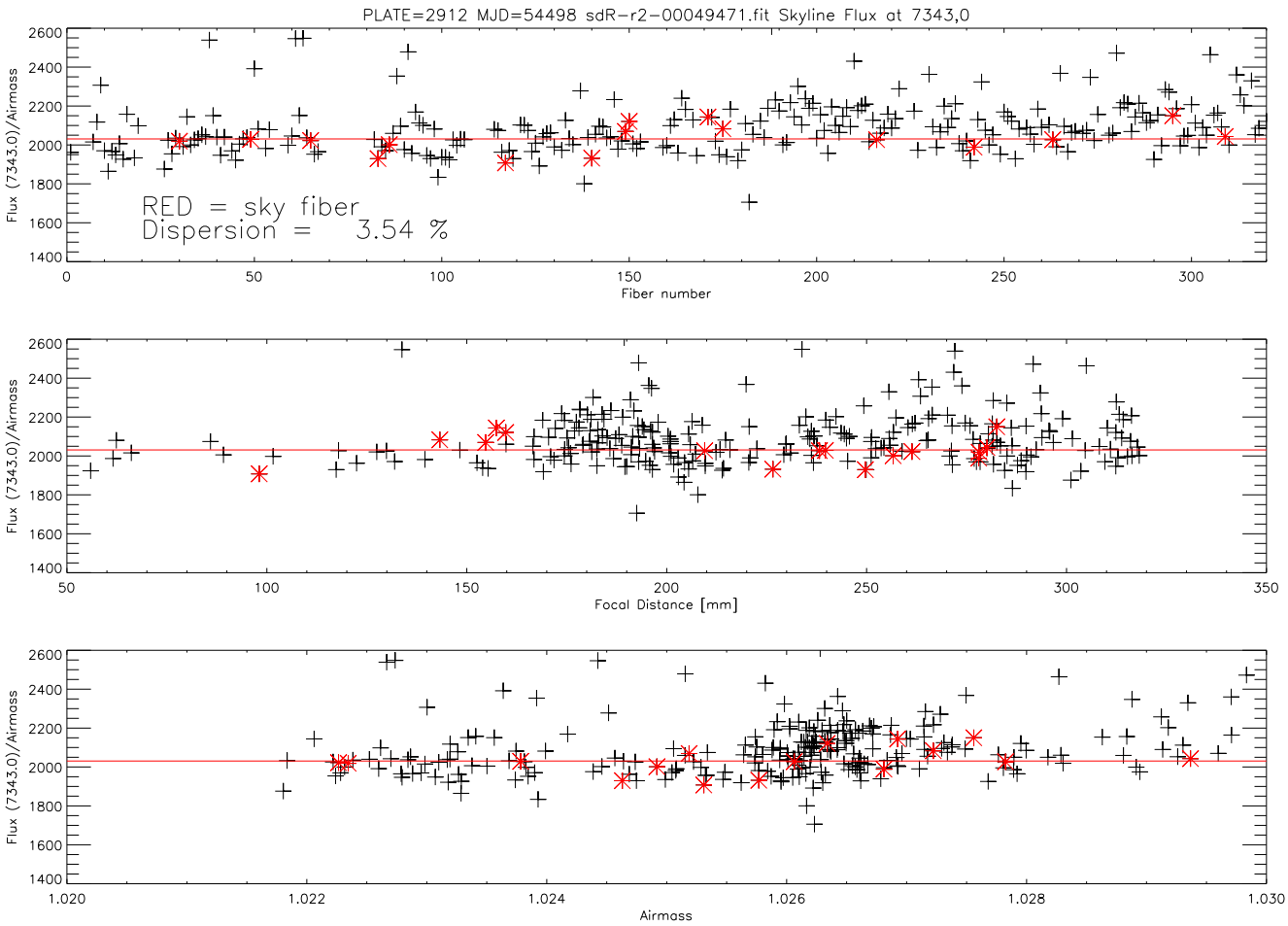

Number of sky fibers = 16
PLATE=2912 MJD=54498 sdR-r2-00049471.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

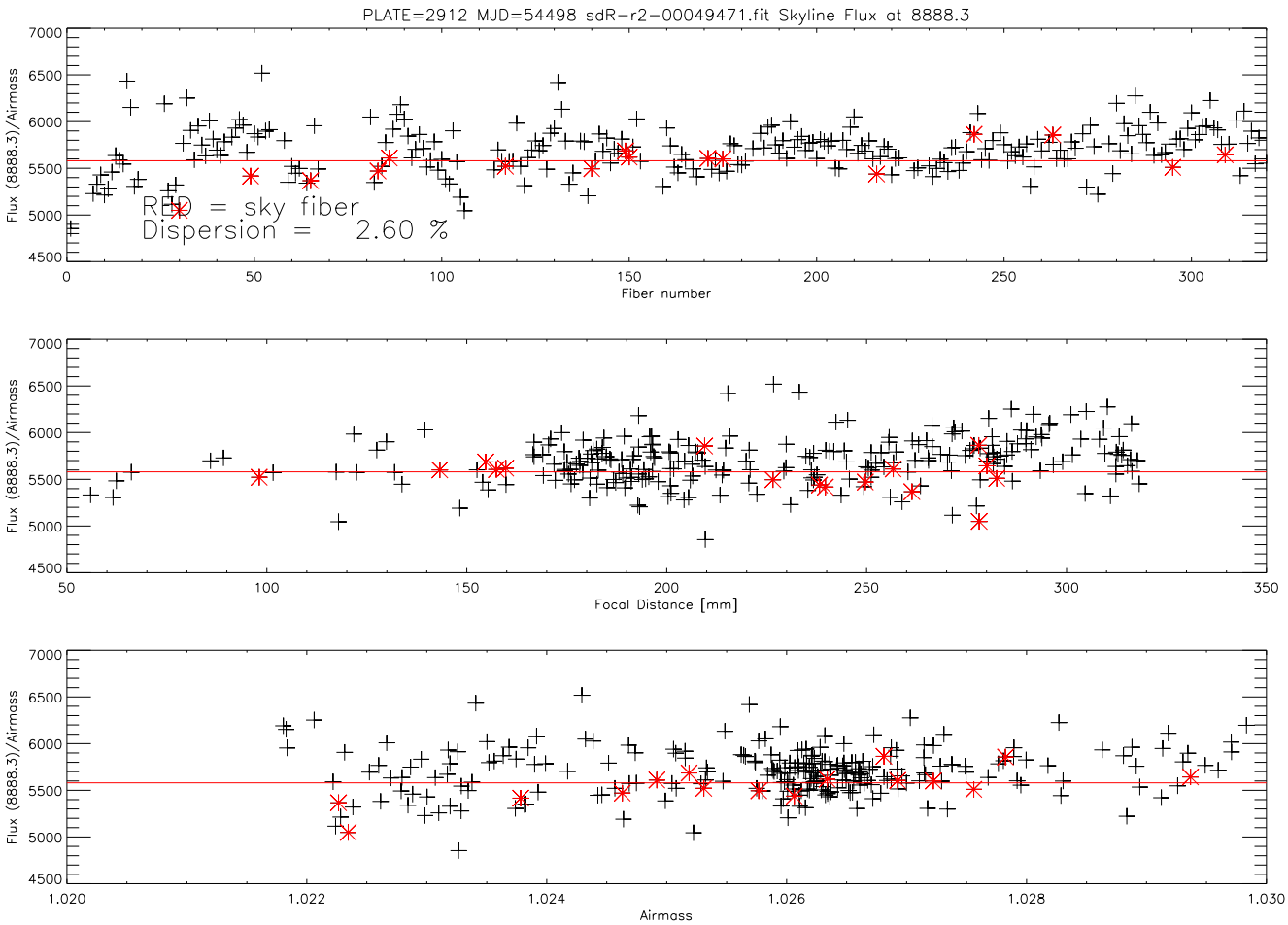

PLATE=2912 MJD=54498 sdR-r2-00049471.fit 2D Sky-subtraction Sky Fibers
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
40
20
0
-20
-40
50
100
150
200
250
300
Fiber number

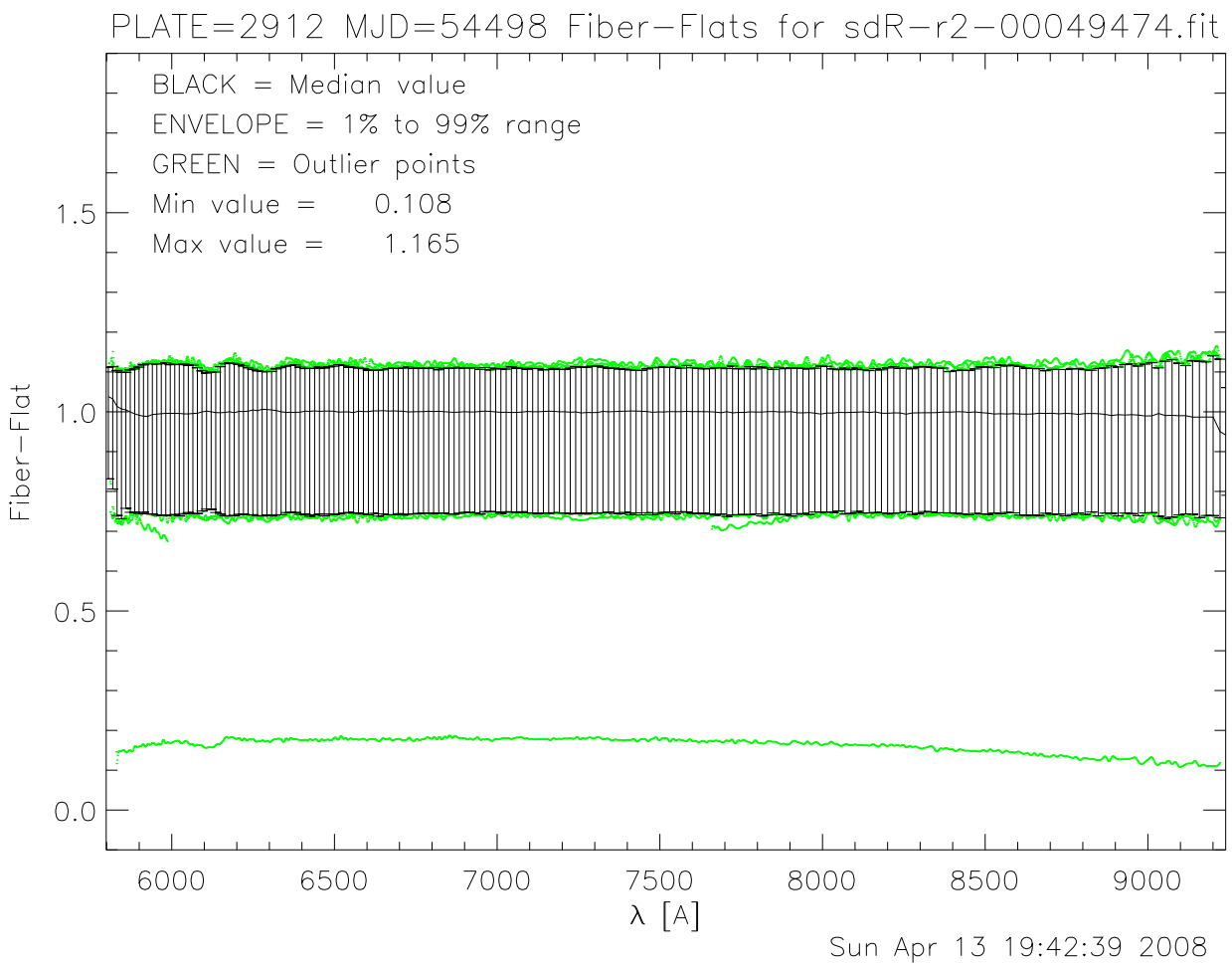

PLATE=2912 MJD=54498 sdR-r2-00049471.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

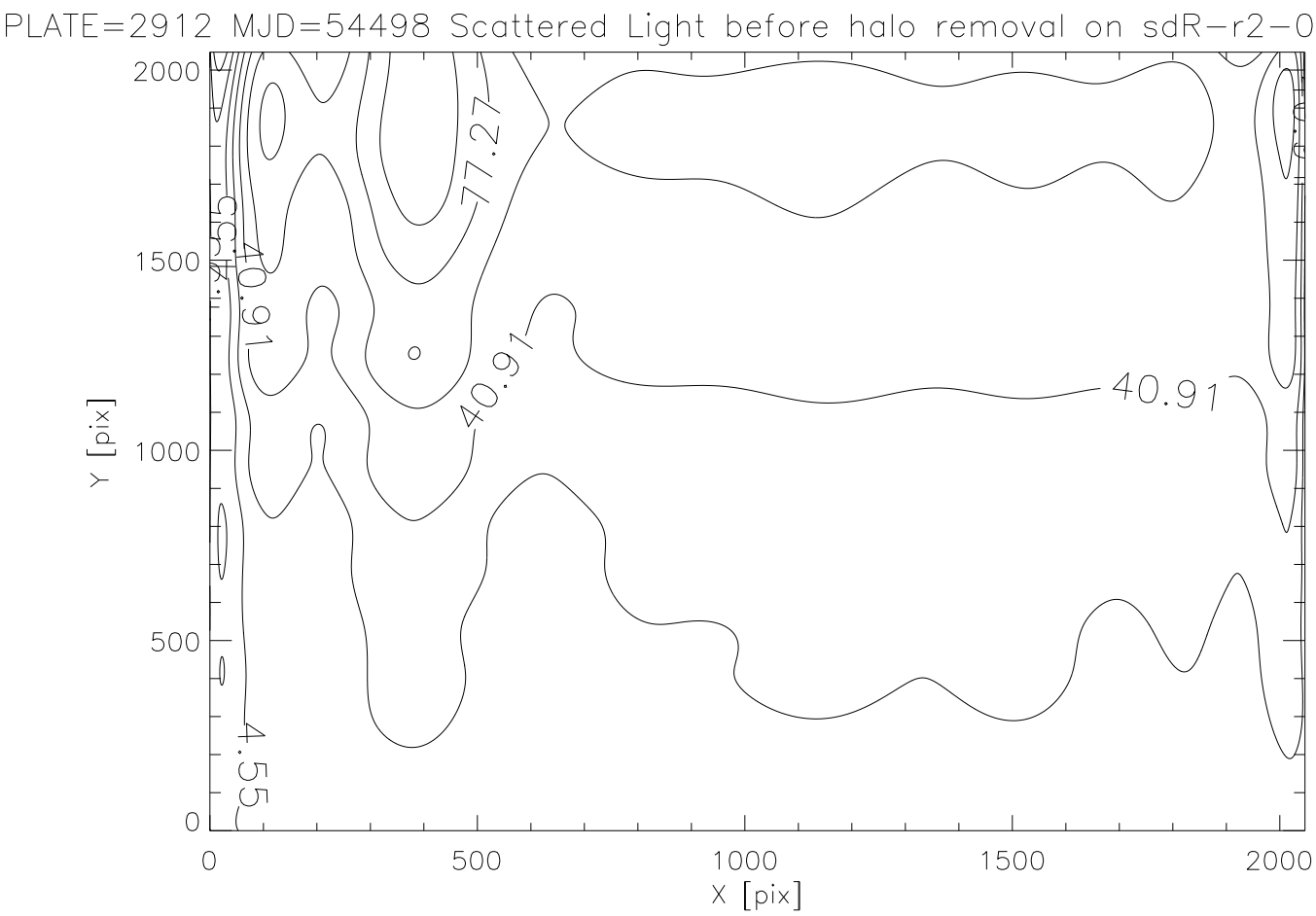

PLATE=2912 MJD=54498 sdR-r2-00049471.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
−100
−200
−300
−400
8820
8840
8860
8880
8900
λ [A]

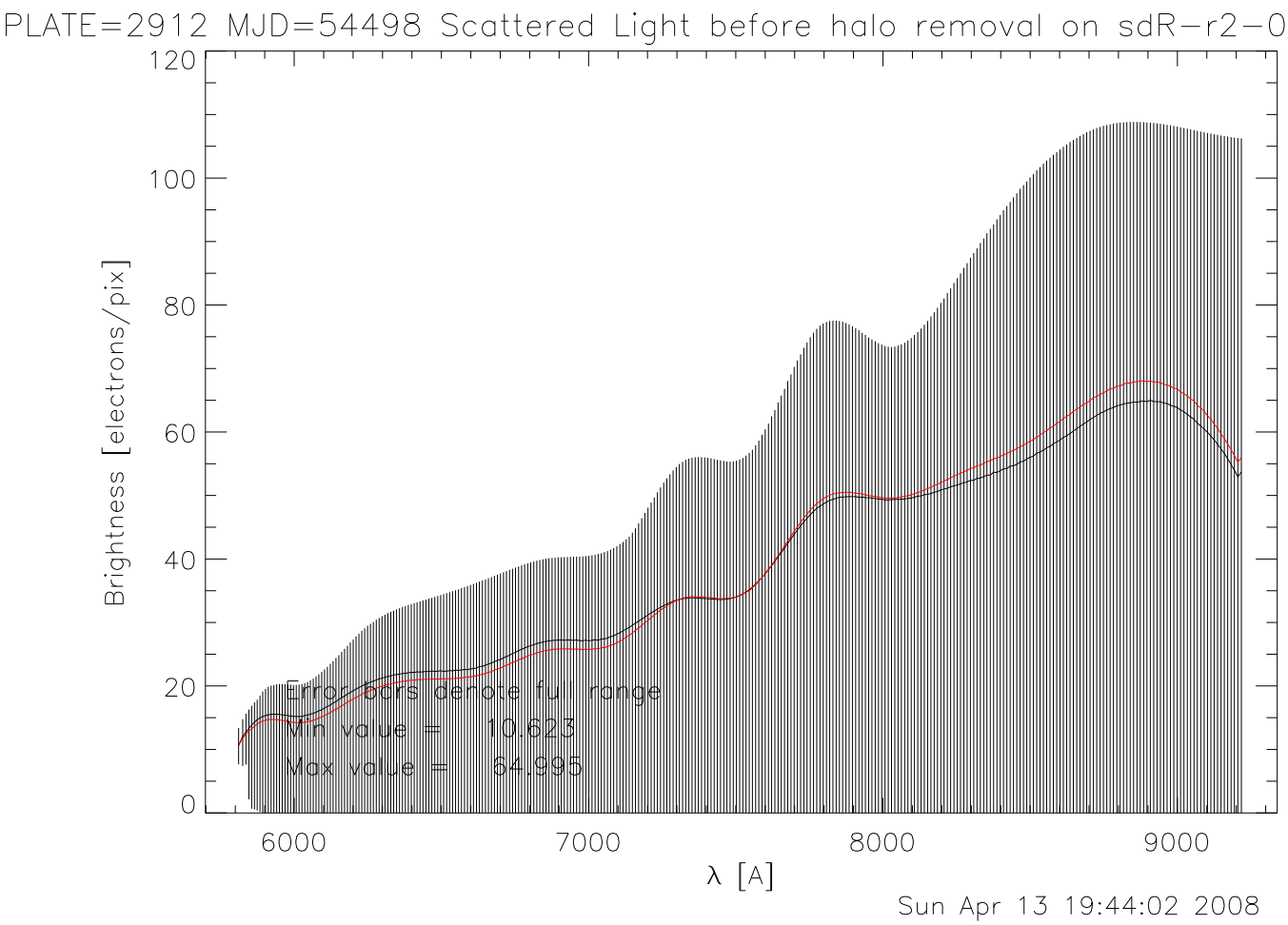

Number of sky fibers = 16
PLATE=2912 MJD=54498 sdR-r2-00049471.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

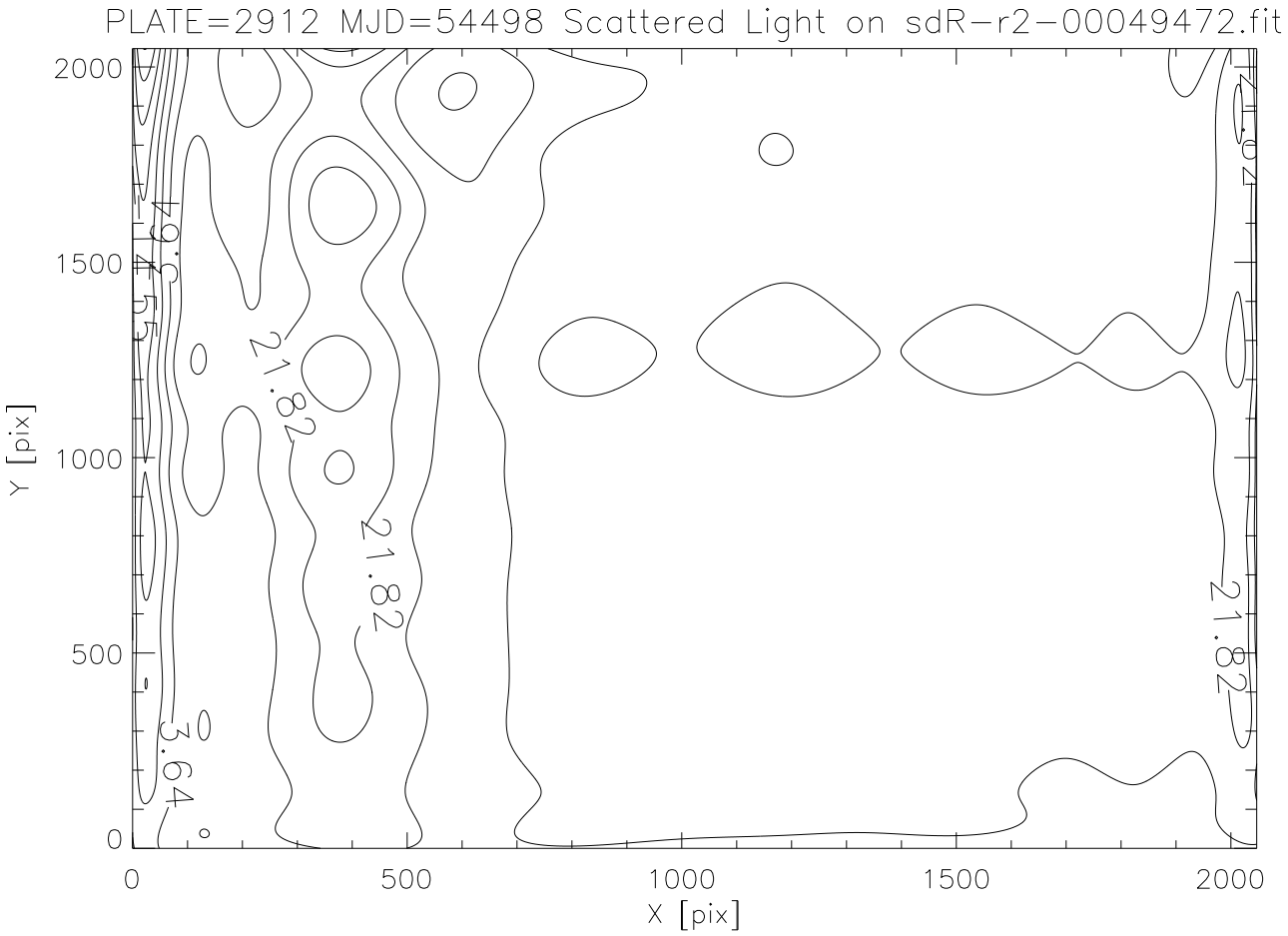

PLATE=2912 MJD=54498 sdR-r2-00049471.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.54 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

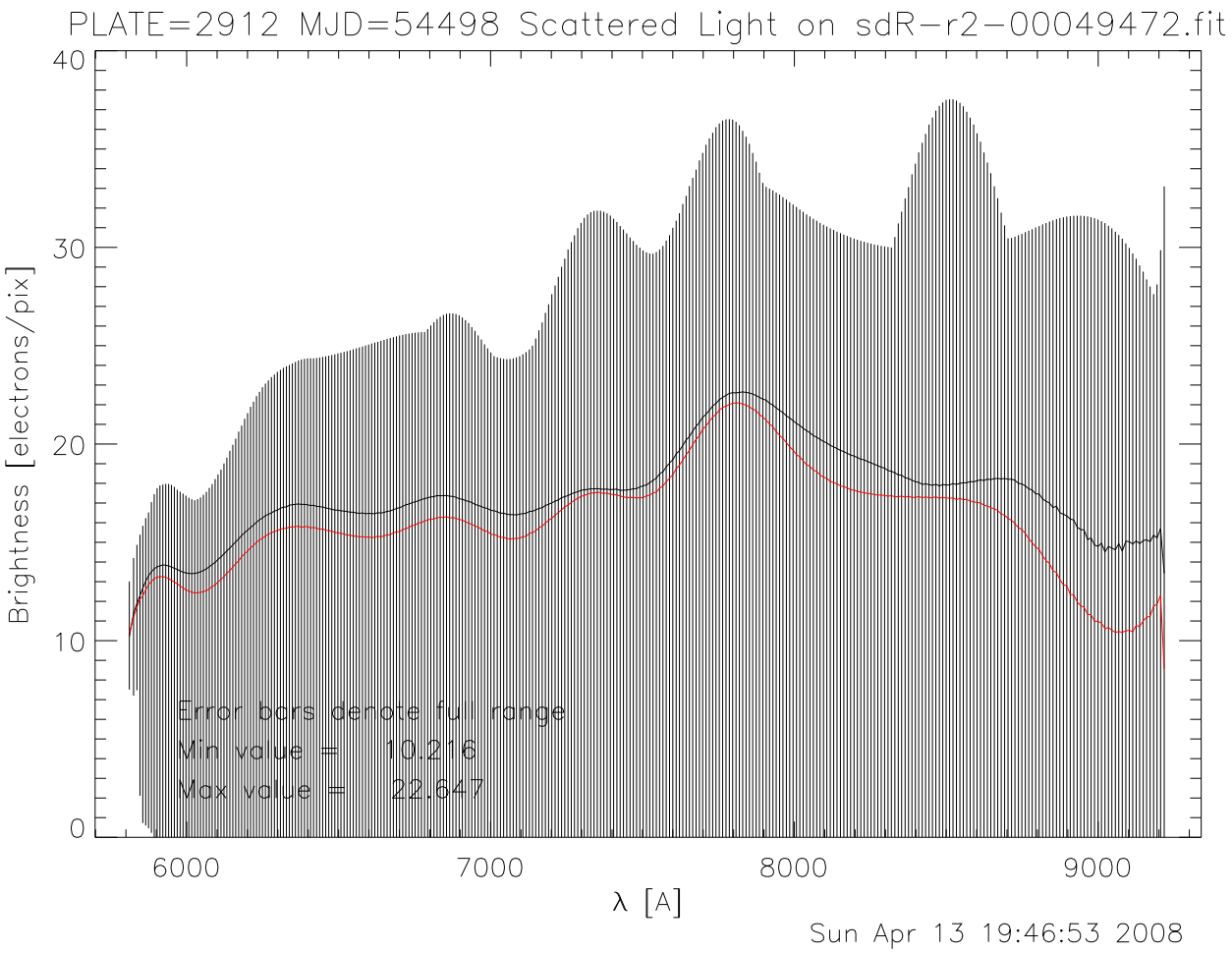

PLATE=2912 MJD=54498 sdR-r2-00049471.fit Skyline Flux at 8888.3
RED = sky fiber
Dispersion = 2.60 %
Flux (8888.3)/Airmass
Fiber number
Focal Distance [mm]
Airmass

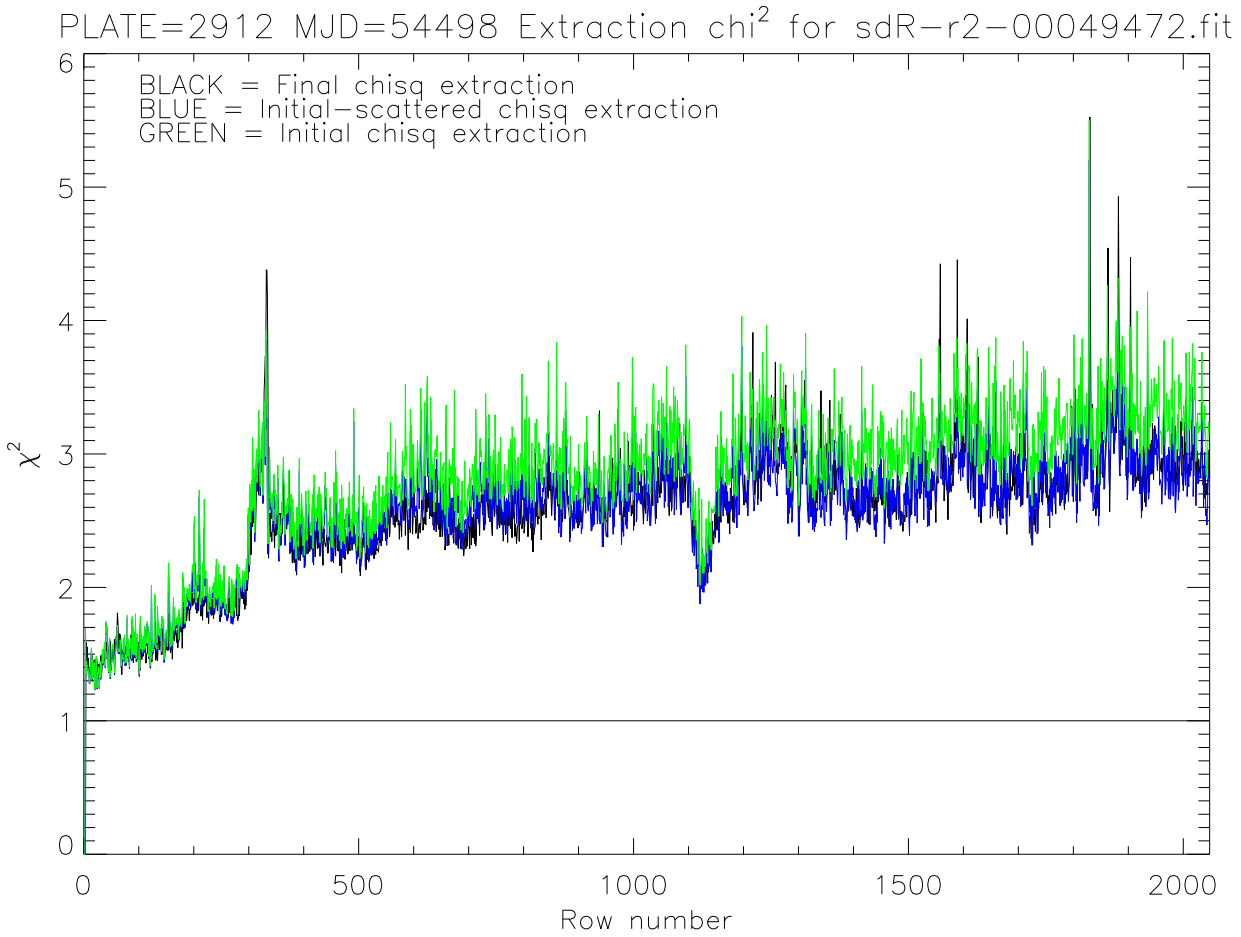

PLATE=2912 MJD=54498 Fiber−Flats for sdR−r2−00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.108
Max value = 1.165
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Apr 13 19:42:39 2008

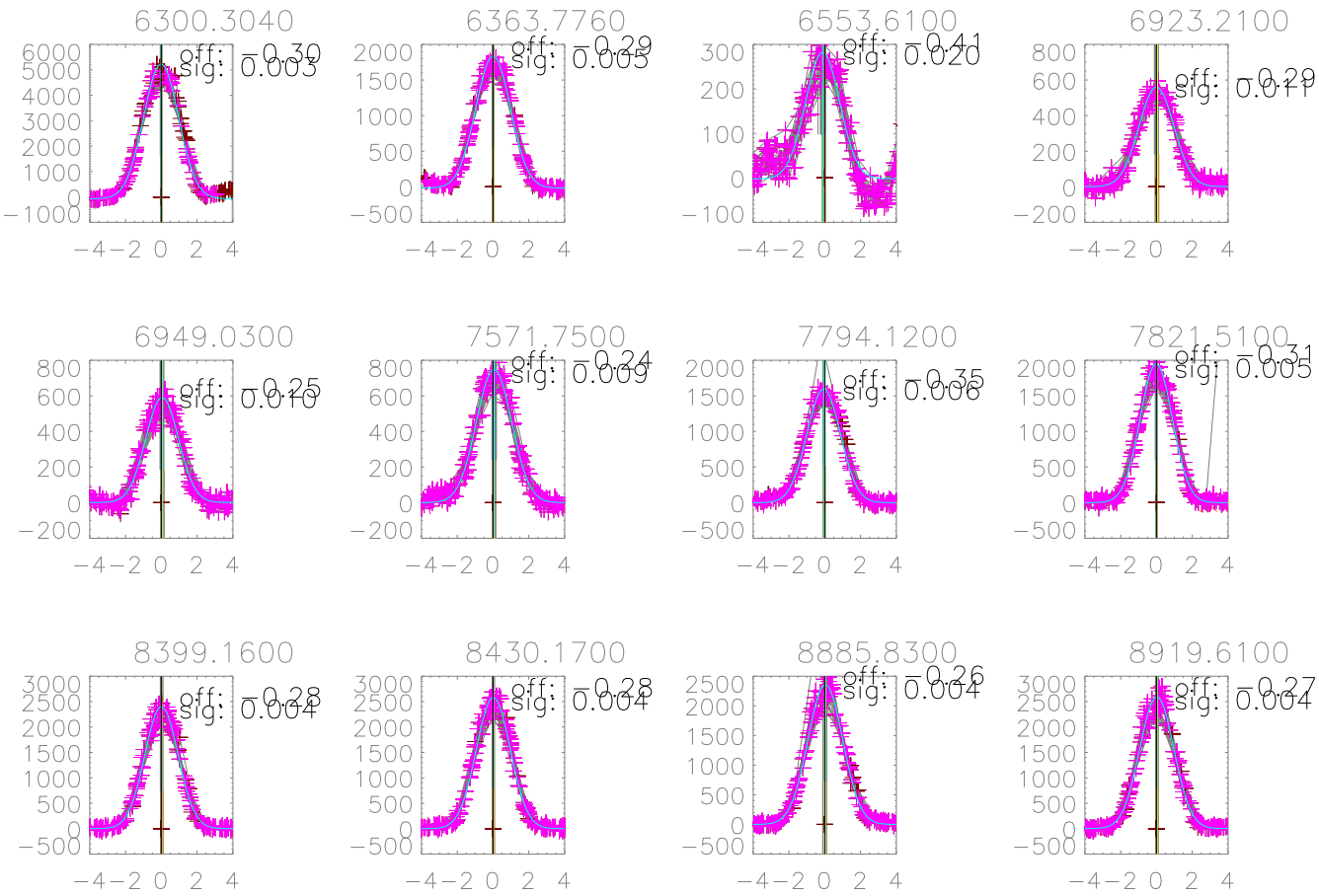

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r2-00049472.fi
77.27
40.91
40.91
40.91
4.55
Y [pix]
X [pix]
0
500
1000
1500
2000

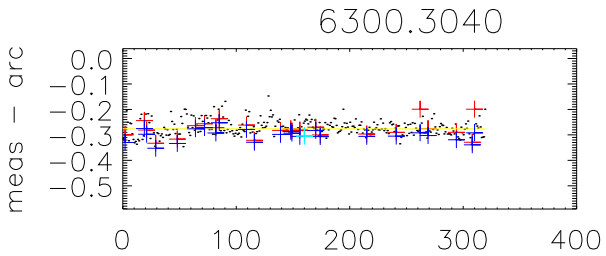

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r2-00049472.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.623
Max value = 64.995
Sun Apr 13 19:44:02 2008

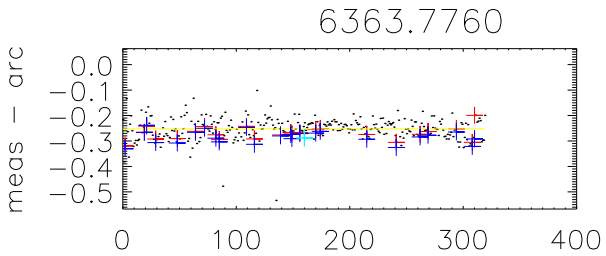

PLATE=2912 MJD=54498 Scattered Light on sdR-r2-00049472.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
21.82
21.82
21.82
21.82
49.3
14.55
3.64

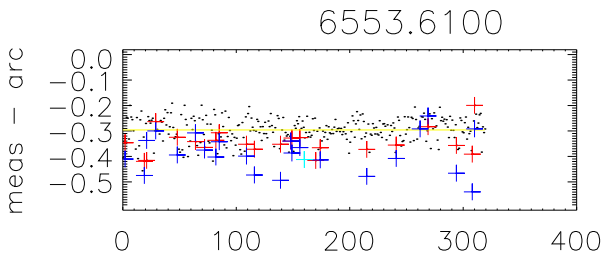

PLATE=2912 MJD=54498 Scattered Light on sdR-r2-00049472.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.216
Max value = 22.647
Sun Apr 13 19:46:53 2008

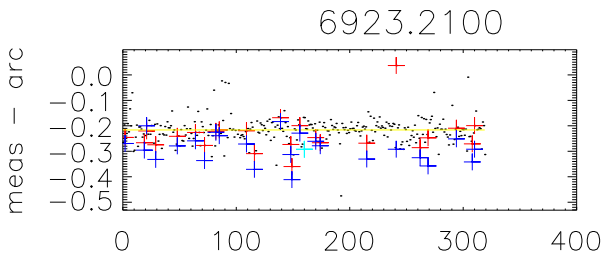

PLATE=2912 MJD=54498 Extraction chi^2 for sdR−r2−00049472.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

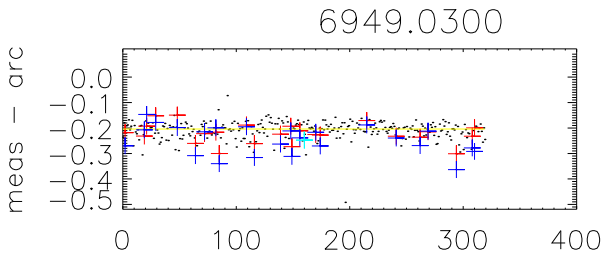

6300.3040
off: −0.30
sig: 0.003
6363.7760
off: −0.29
sig: 0.005
6553.6100
off: −0.41
sig: 0.020
6923.2100
off: −0.29
sig: 0.011
6949.0300
off: −0.25
sig: 0.010
7571.7500
off: −0.24
sig: 0.009
7794.1200
off: −0.35
sig: 0.006
7821.5100
off: −0.31
sig: 0.005
8399.1600
off: −0.28
sig: 0.004
8430.1700
off: −0.28
sig: 0.004
8885.8300
off: −0.26
sig: 0.004
8919.6100
off: −0.27
sig: 0.004

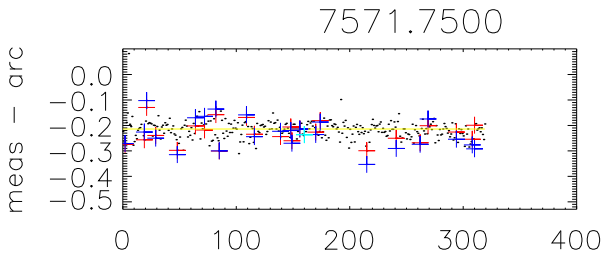

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

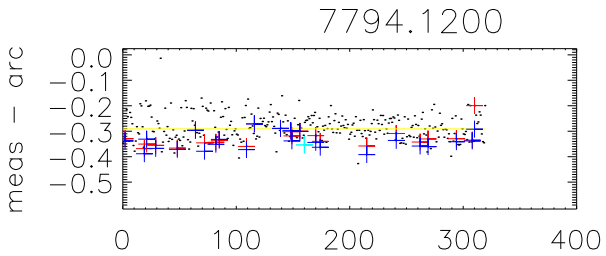

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

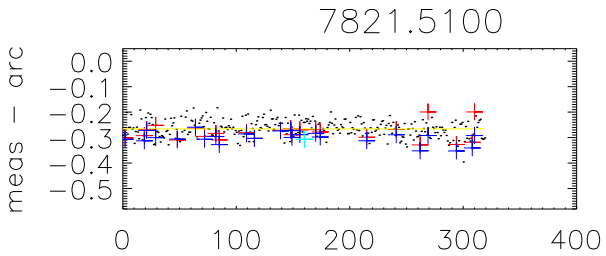

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

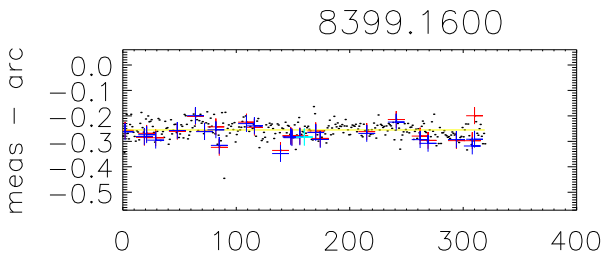

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

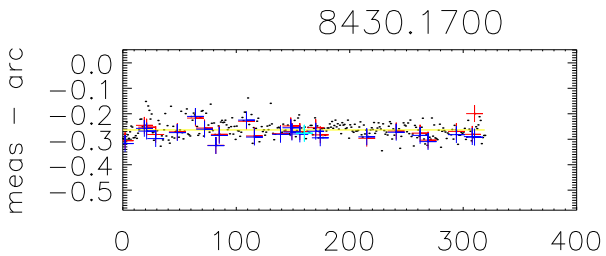

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

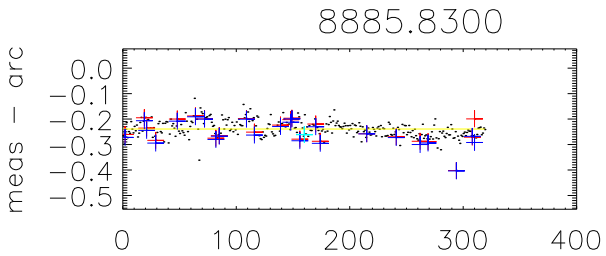

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

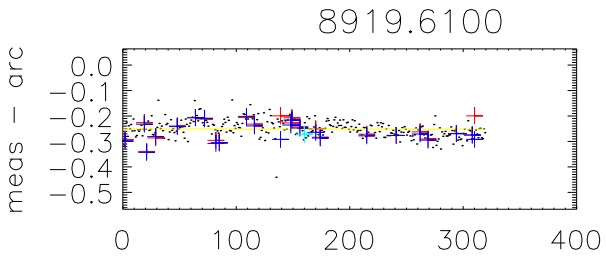

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

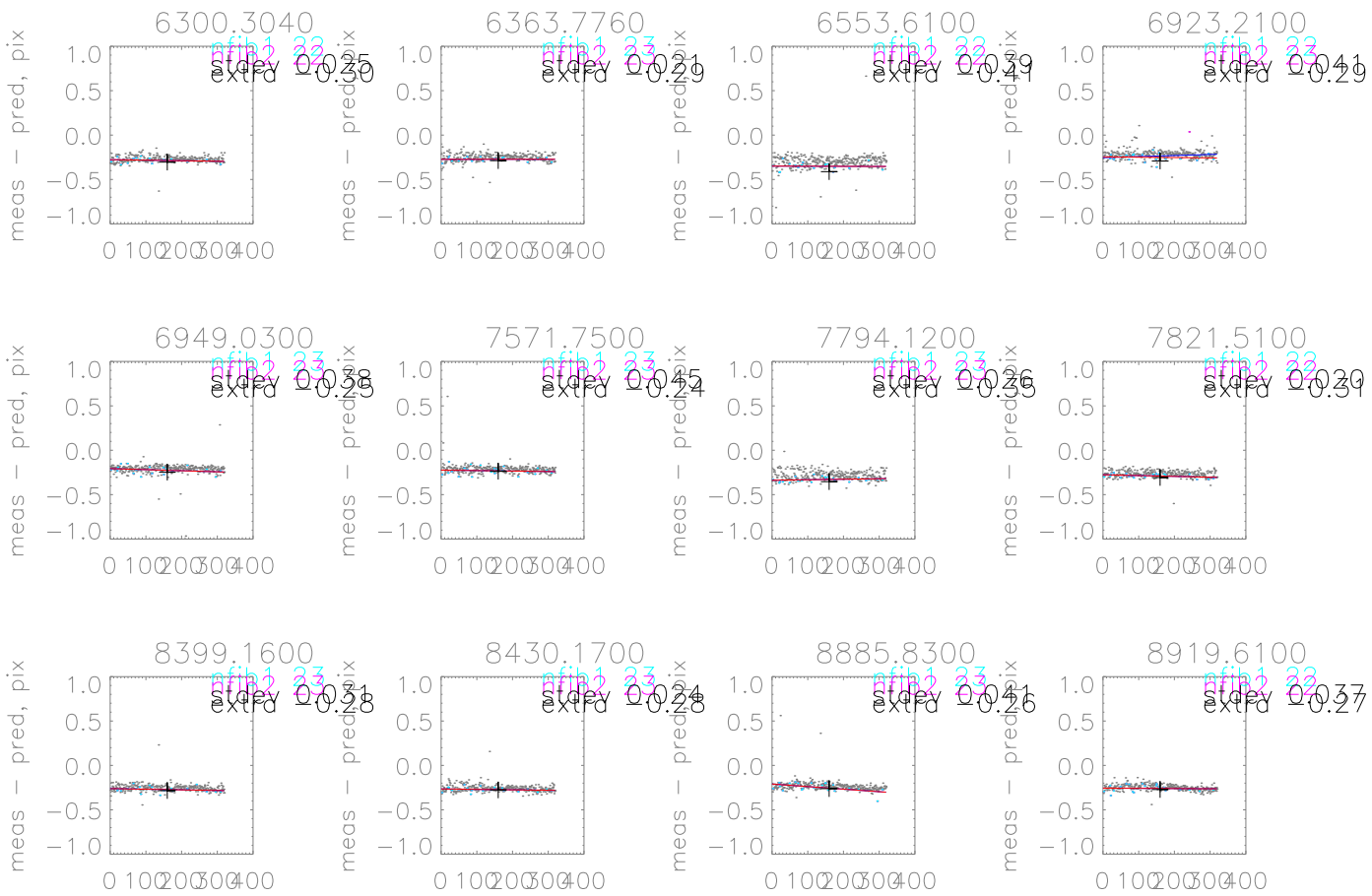

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

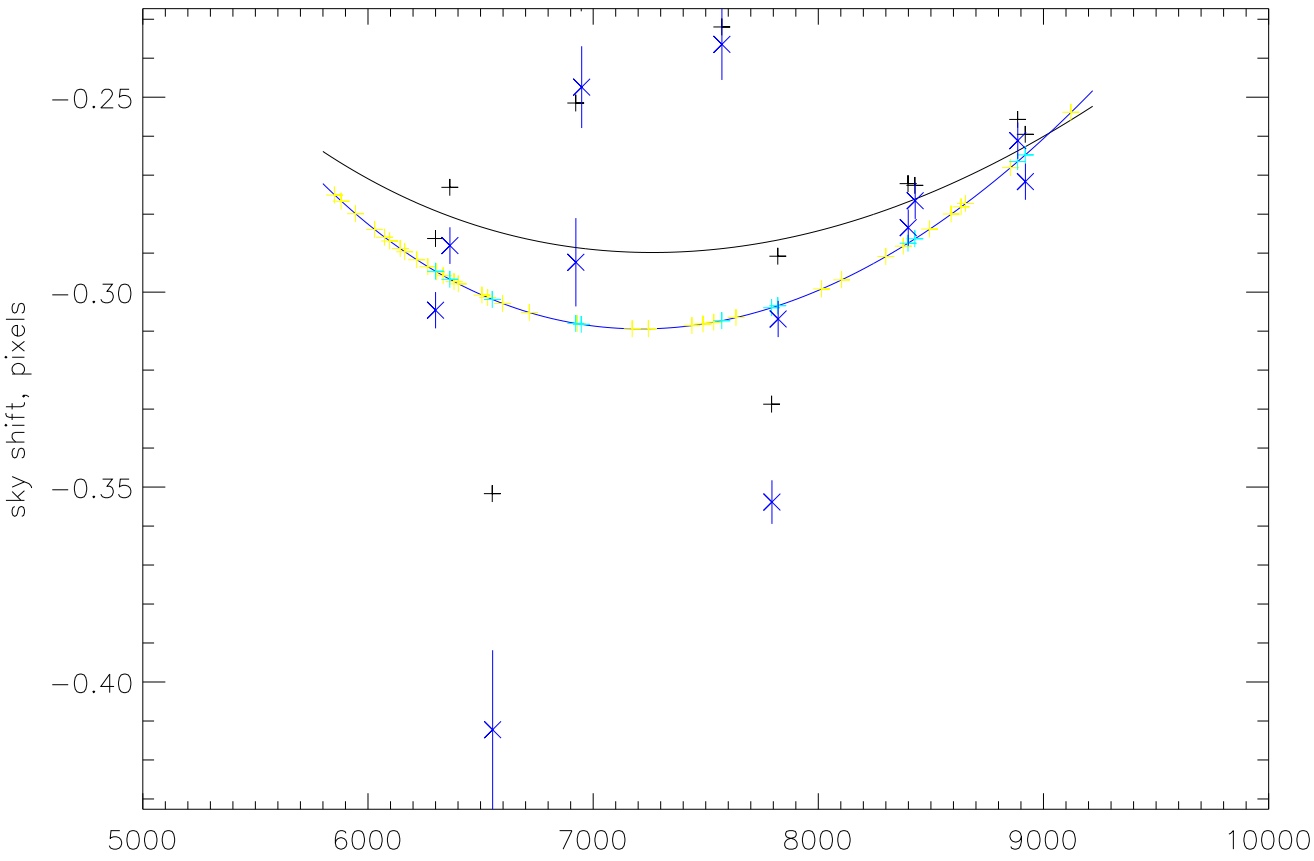

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

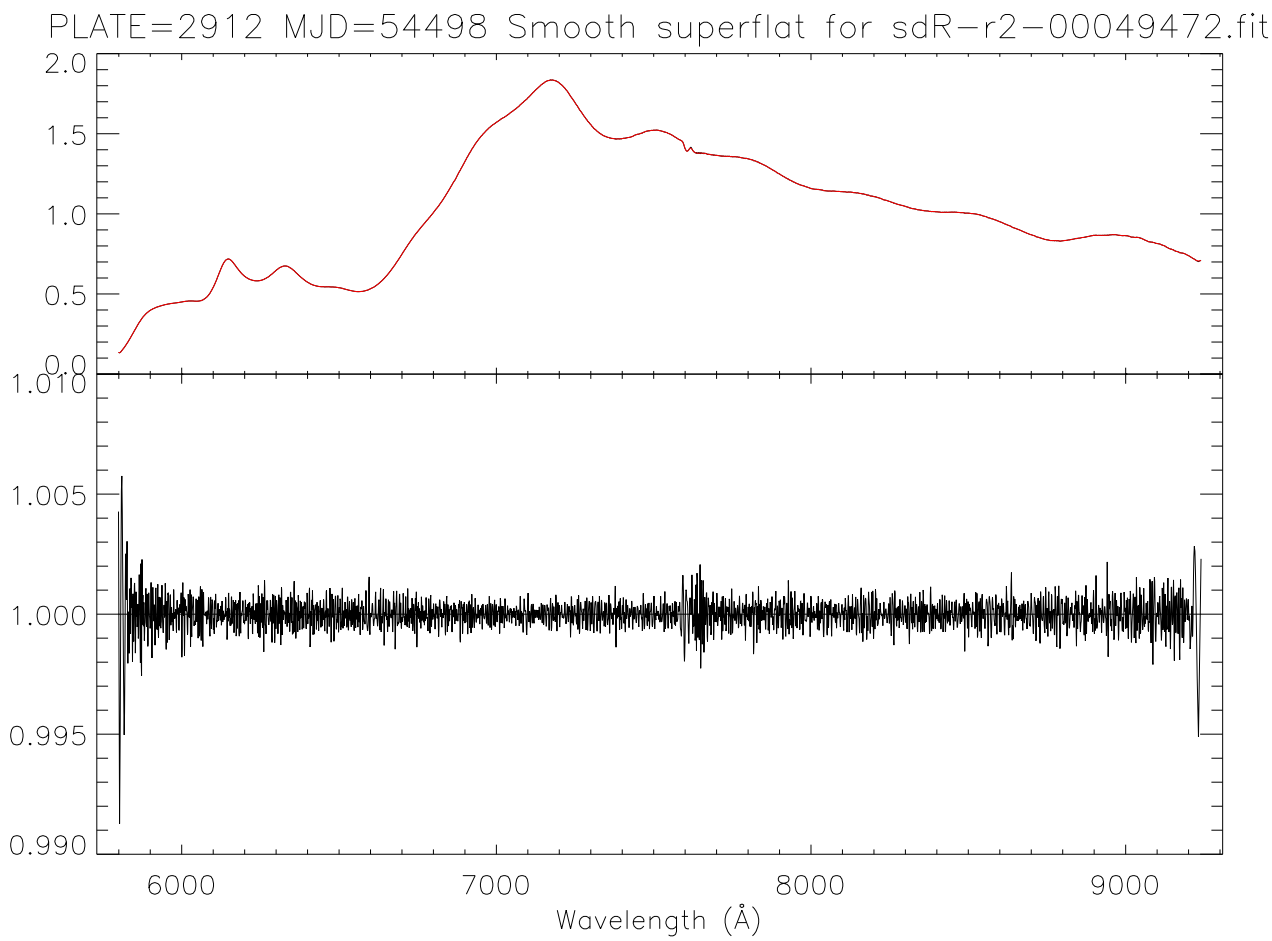

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

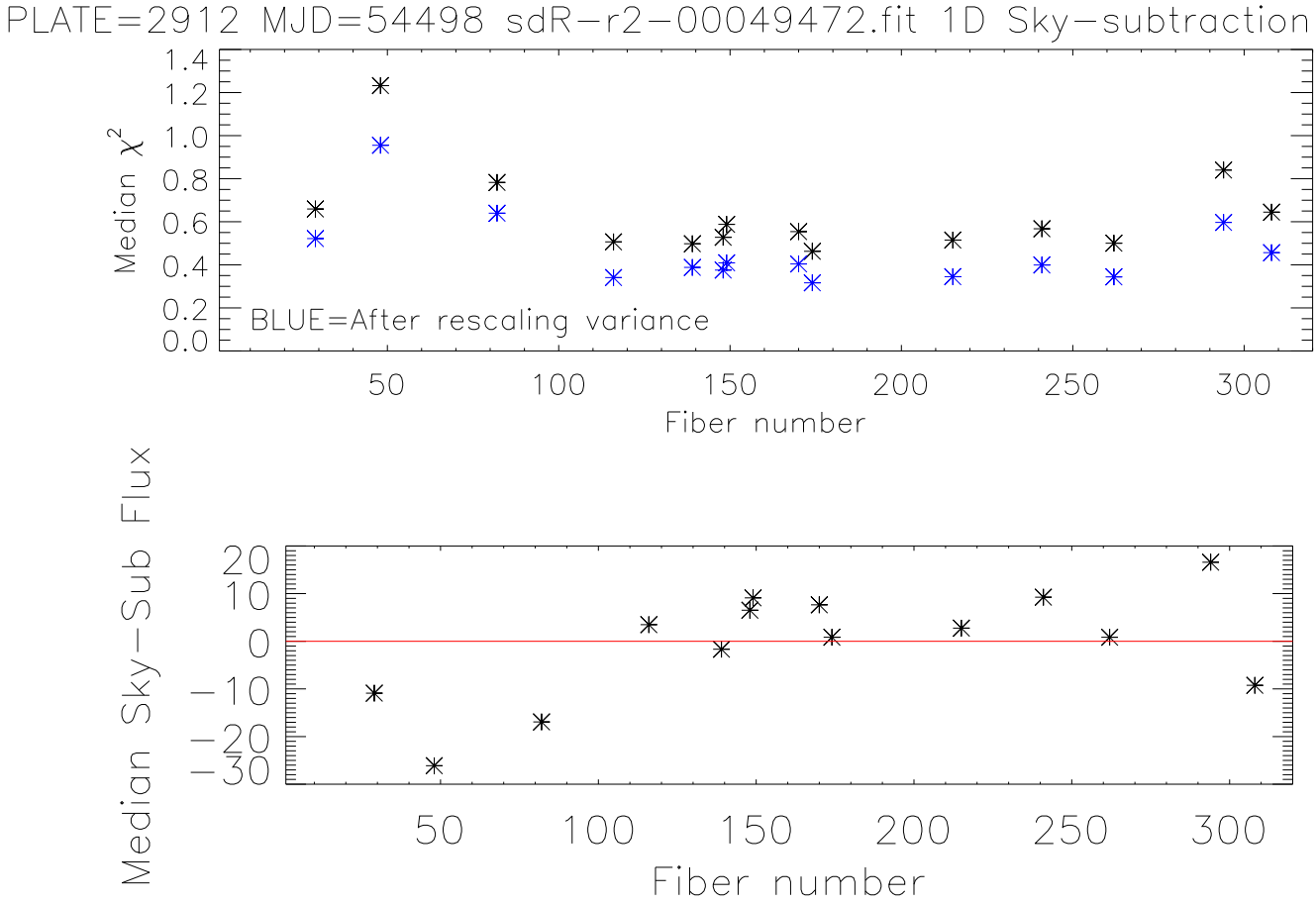

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

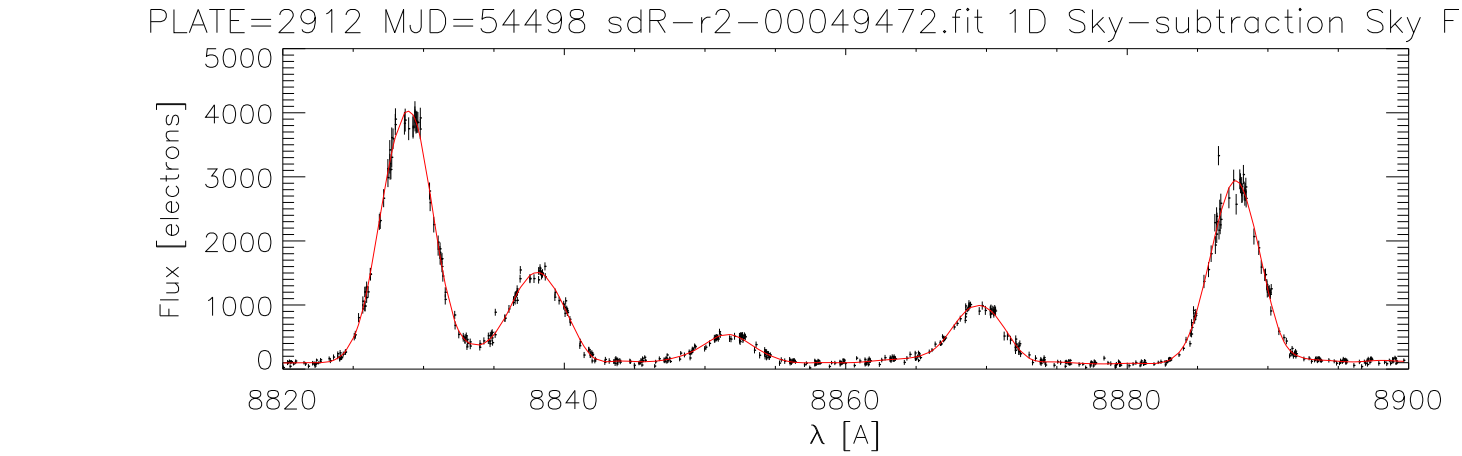

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhi1 23
mfhi2 22
stdev 0.025
extrd 0.30
stdev 0.021
extrd 0.29
stdev 0.039
extrd 0.41
stdev 0.041
extrd 0.29
stdev 0.038
extrd 0.25
stdev 0.045
extrd 0.24
stdev 0.026
extrd 0.35
stdev 0.020
extrd 0.31
stdev 0.031
extrd 0.28
stdev 0.024
extrd 0.28
stdev 0.041
extrd 0.26
stdev 0.037
extrd 0.27

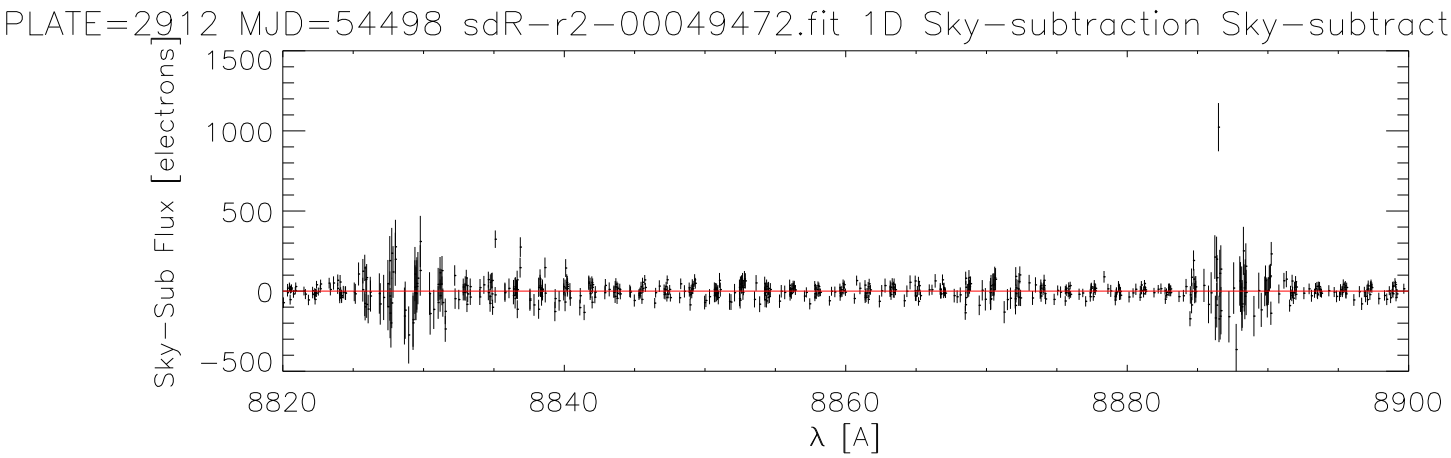

−0.25
−0.30
−0.35
−0.40
sky shift, pixels
5000
6000
7000
8000
9000
10000

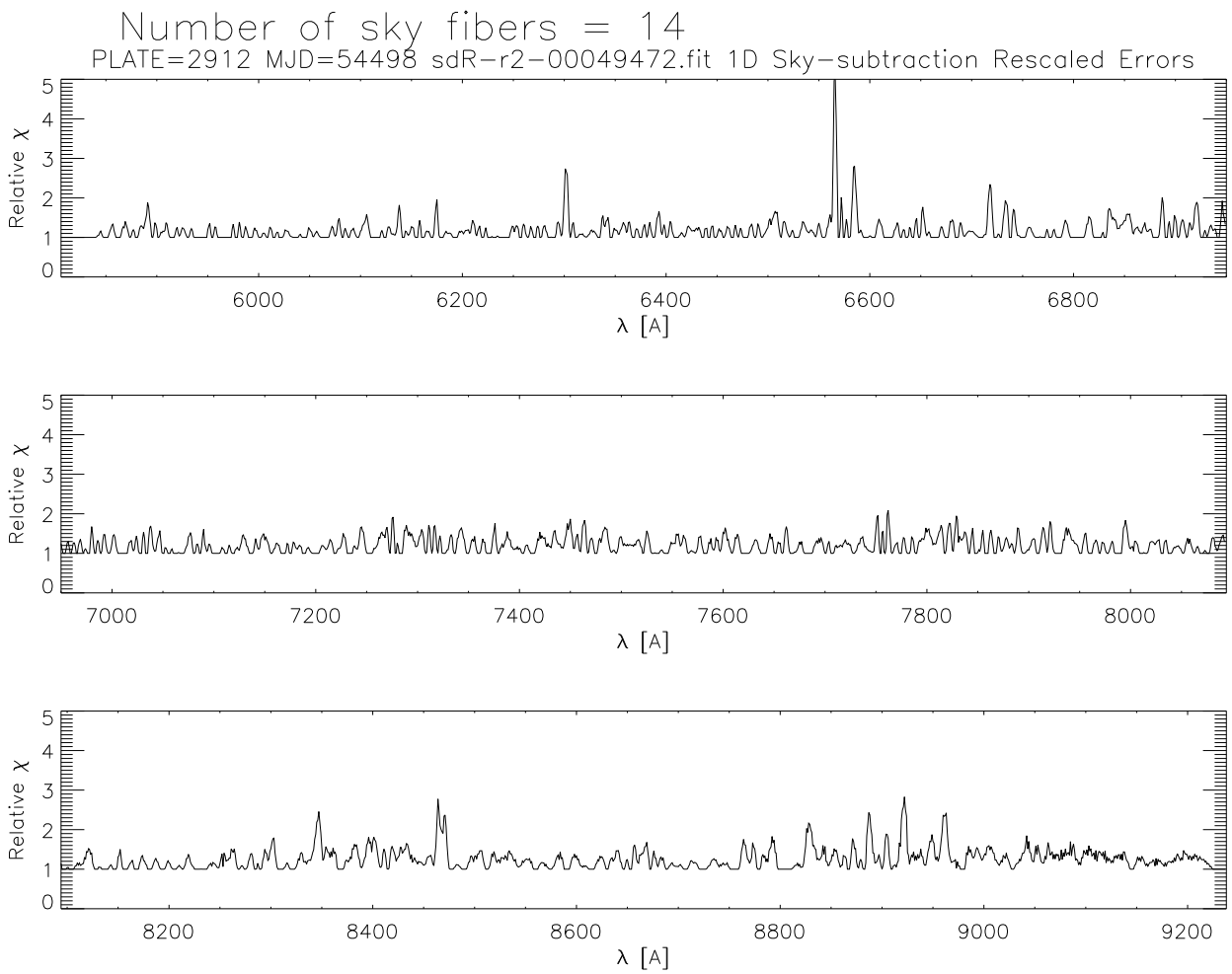
es= −0.0000

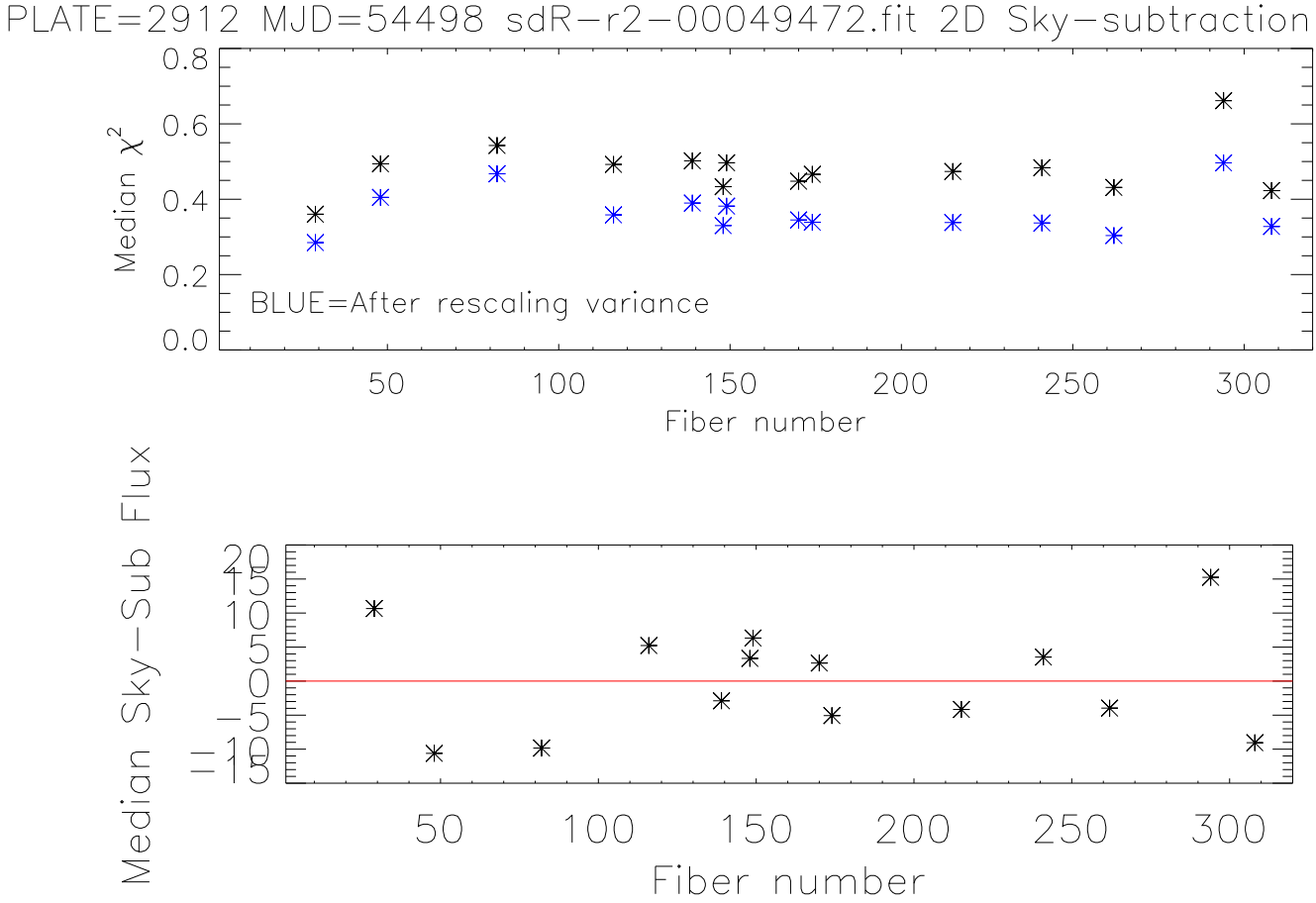

PLATE=2912 MJD=54498 Smooth superflat for sdR−r2−00049472.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)


PLATE=2912 MJD=54498 sdR-r2-00049472.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

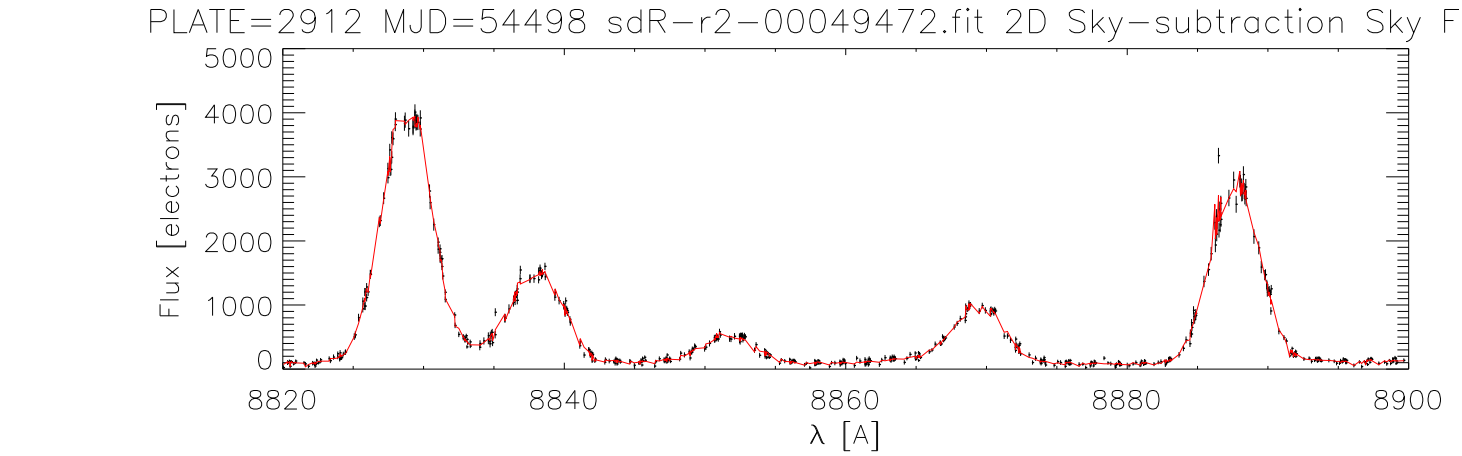

PLATE=2912 MJD=54498 sdR-r2-00049472.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

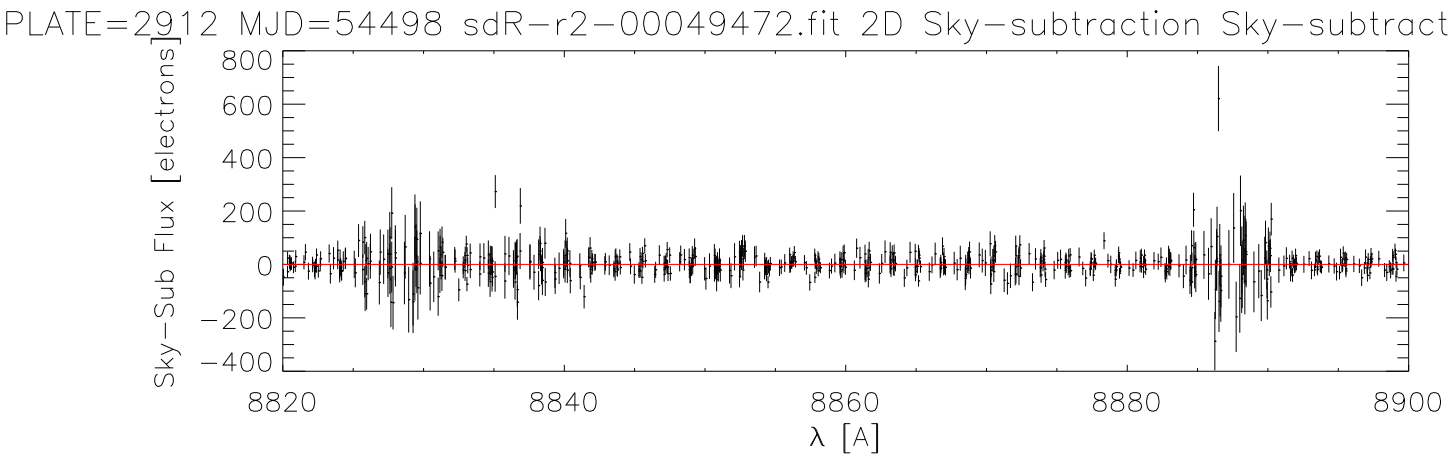

PLATE=2912 MJD=54498 sdR-r2-00049472.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

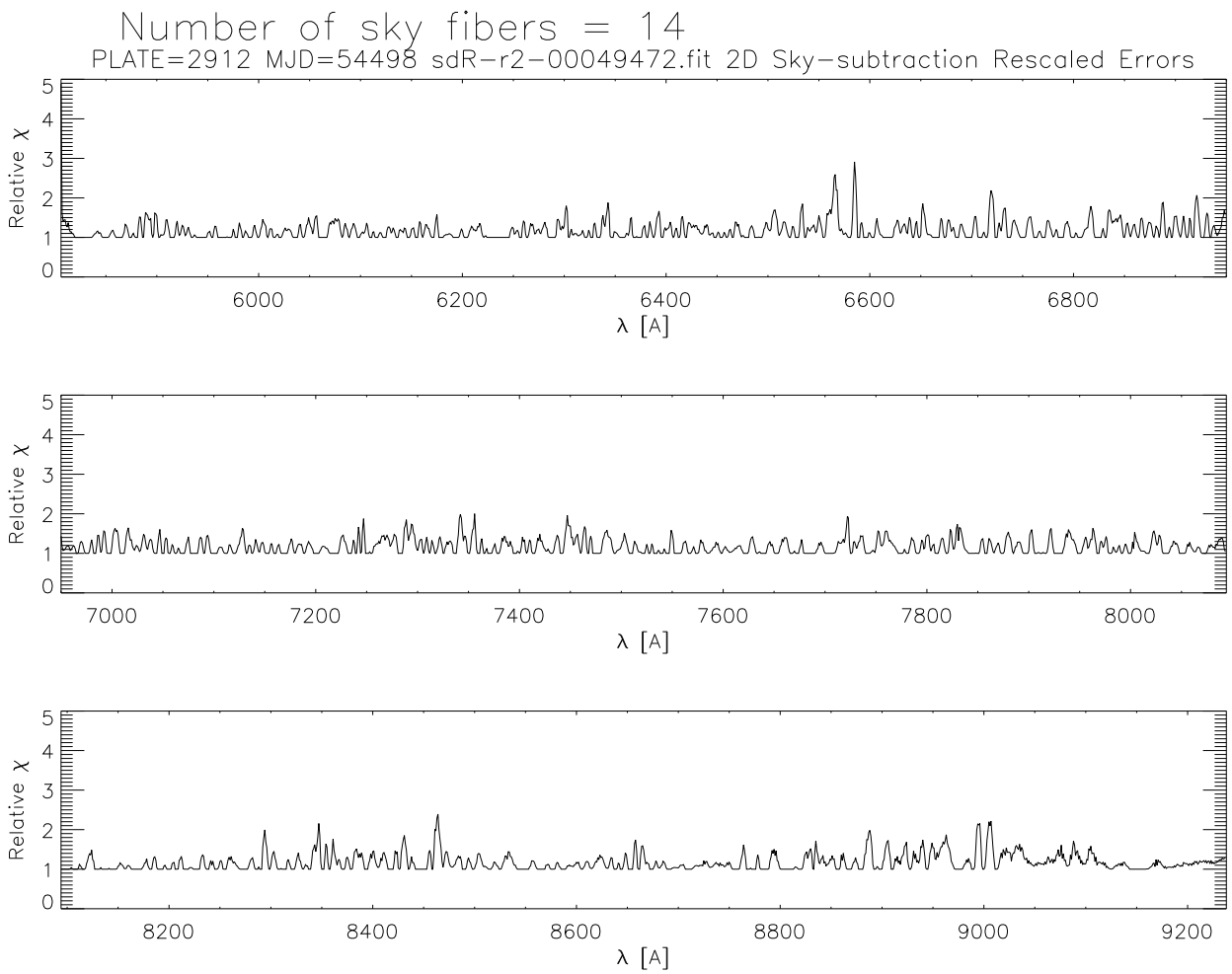

Number of sky fibers = 14
PLATE=2912 MJD=54498 sdR-r2-00049472.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

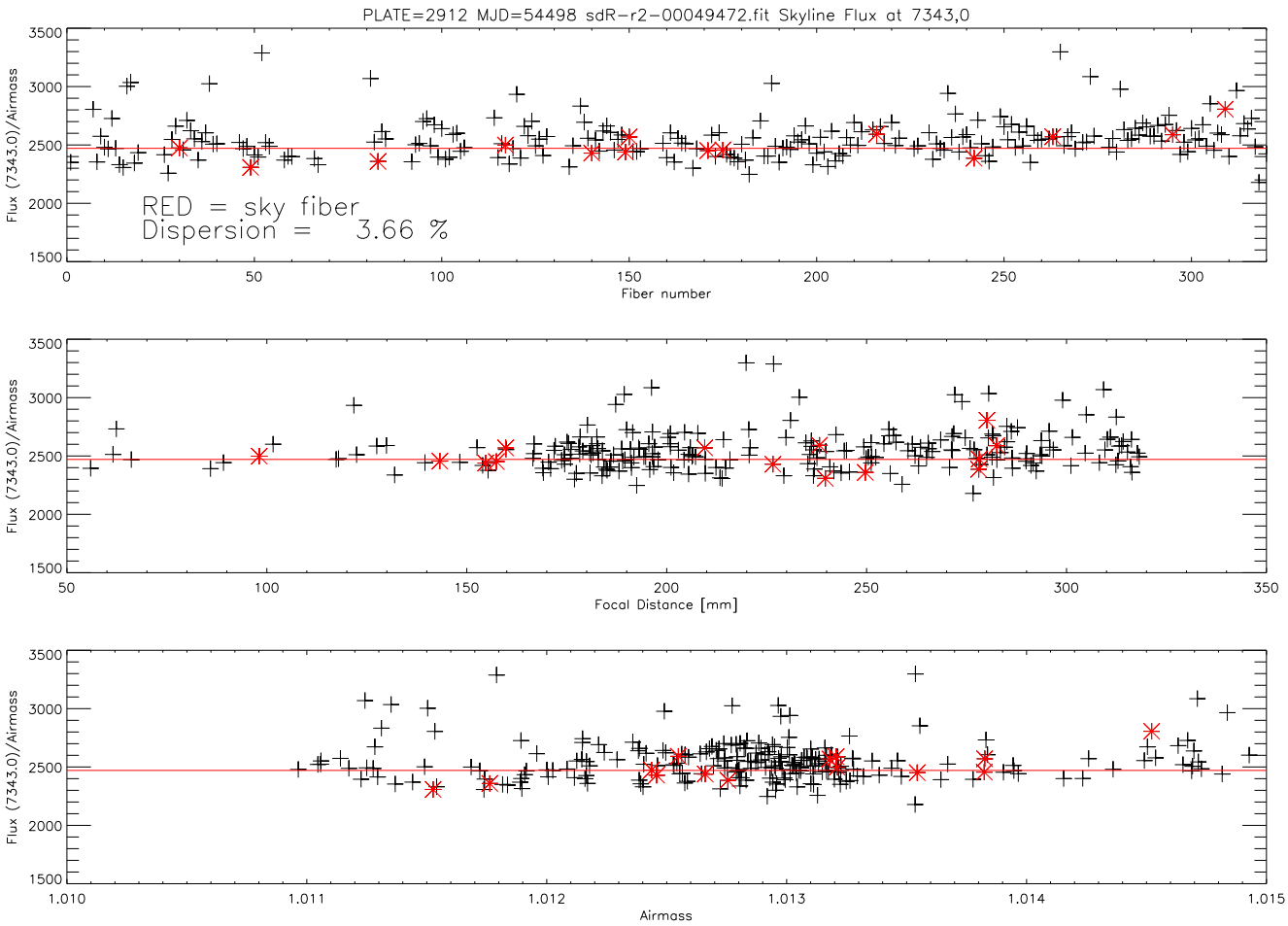

PLATE=2912 MJD=54498 sdR-r2-00049472.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

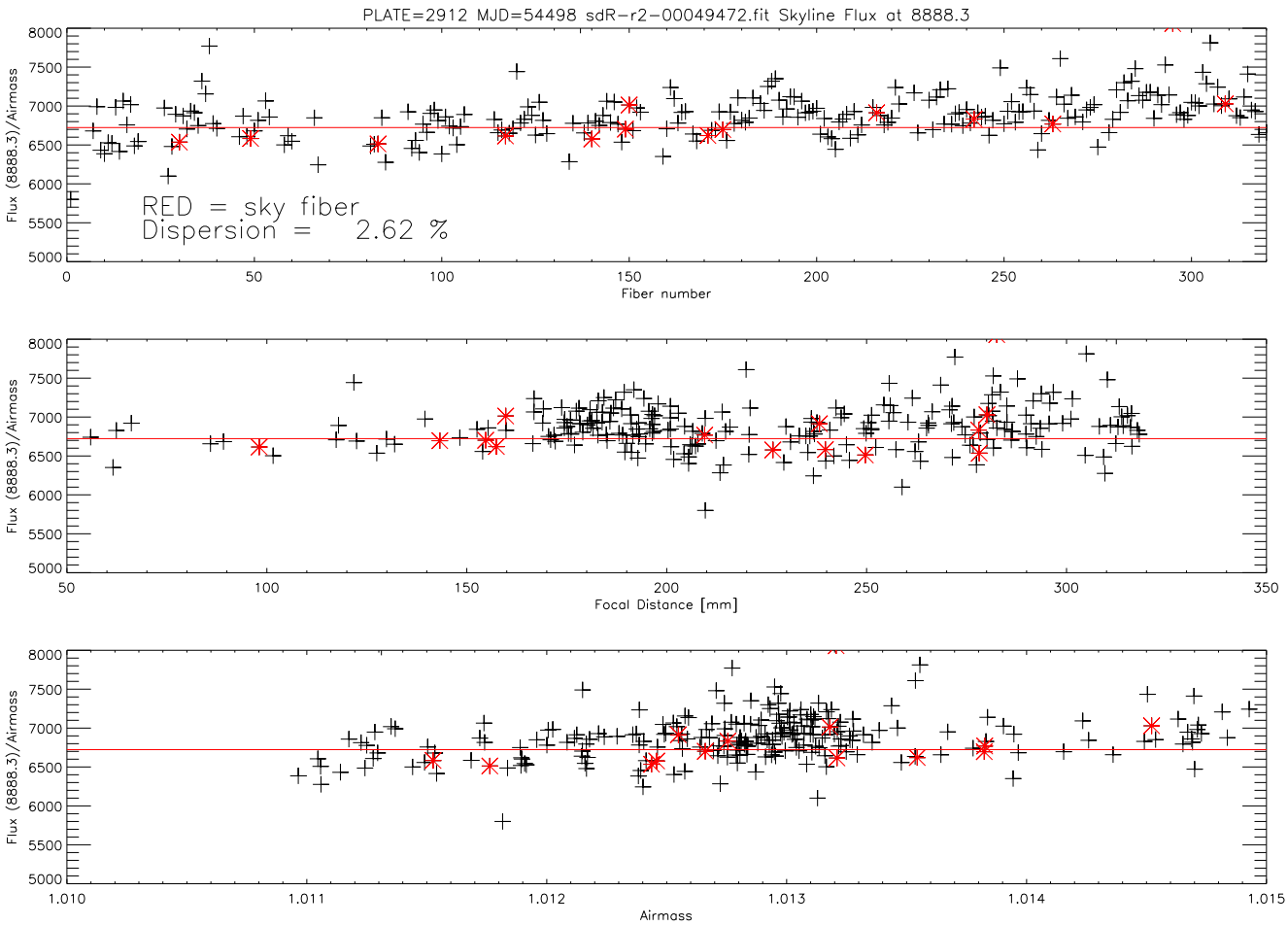
Median Sky-Sub Flux
20
15
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

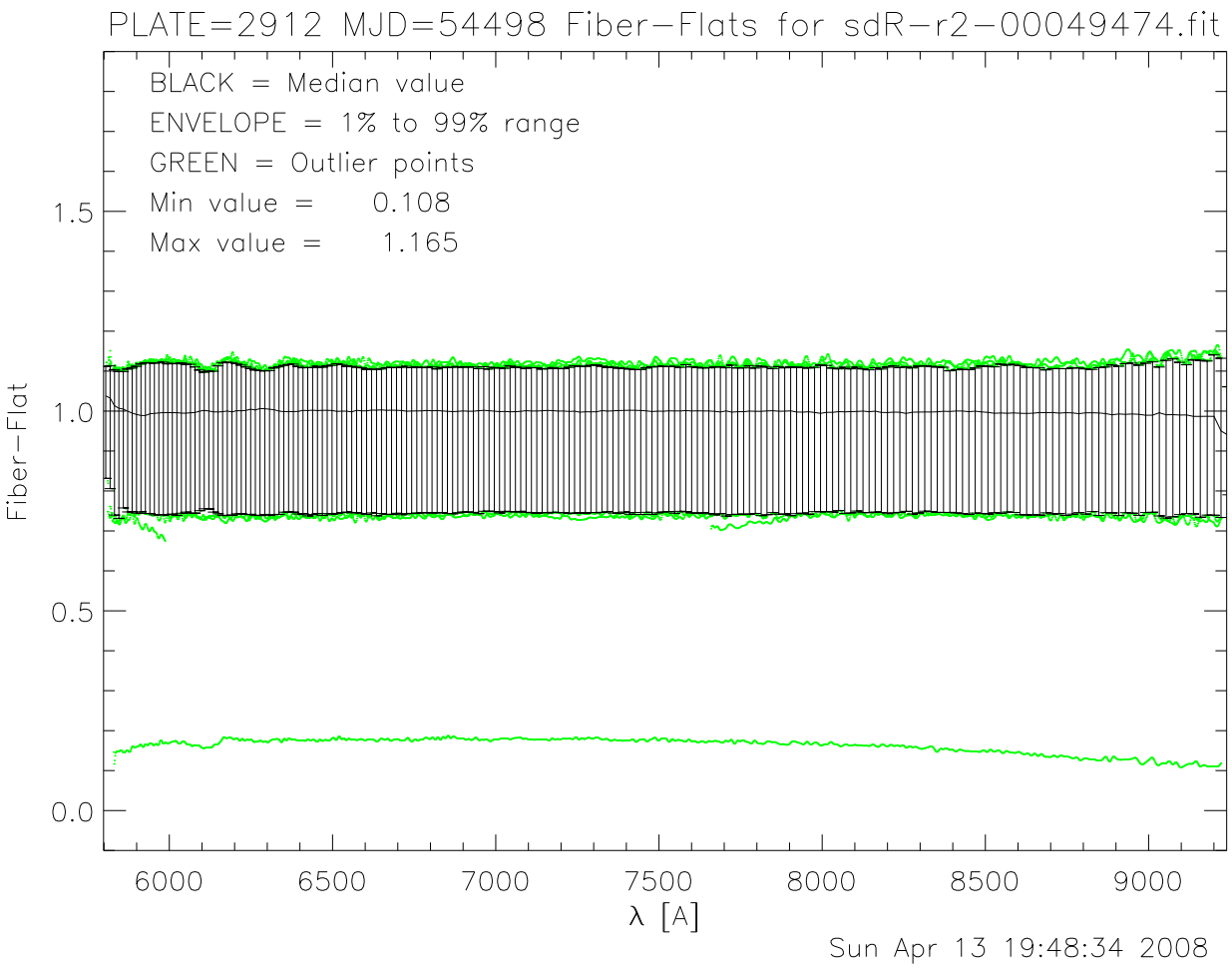

PLATE=2912 MJD=54498 sdR-r2-00049472.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

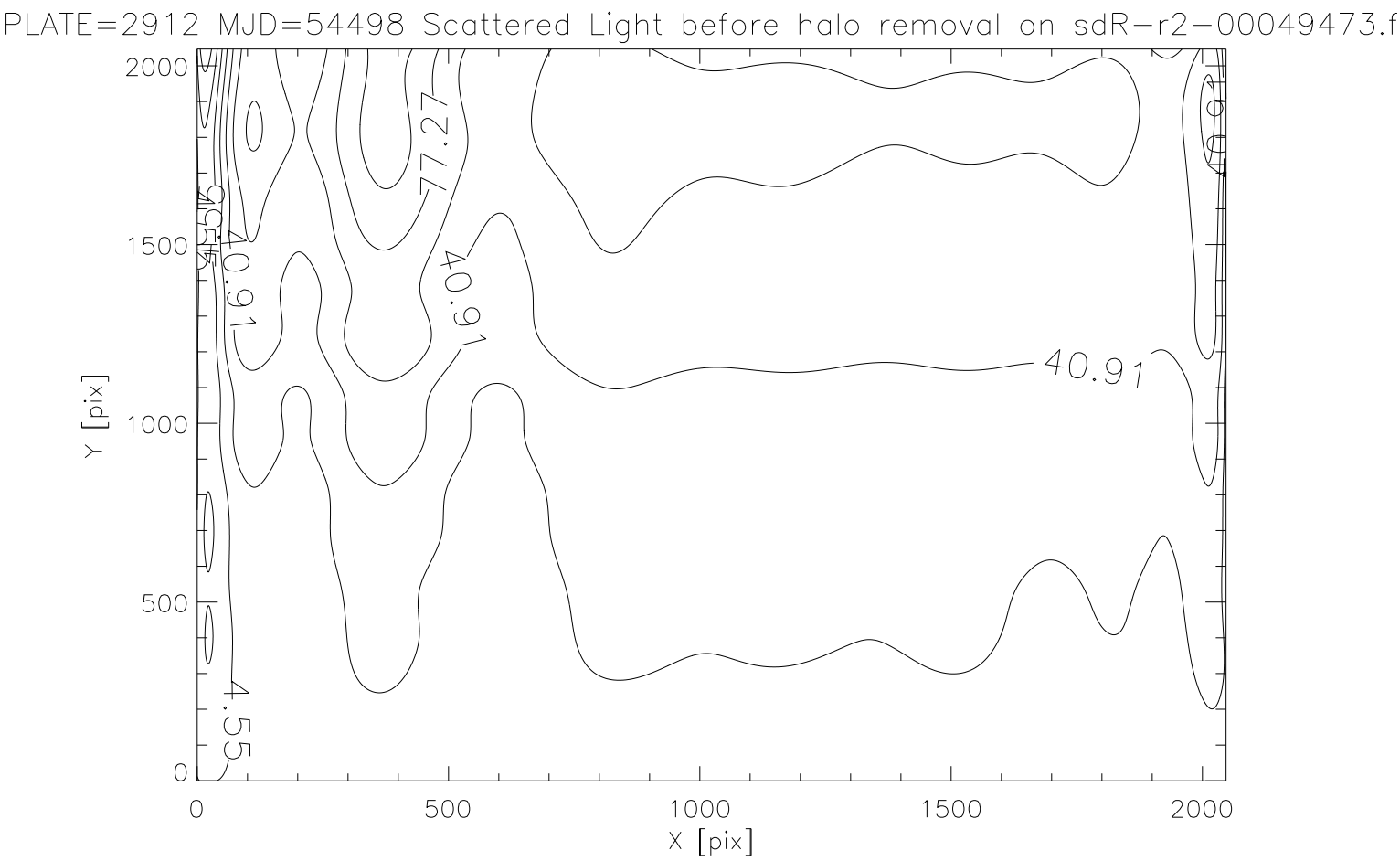

PLATE=2912 MJD=54498 sdR-r2-00049472.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

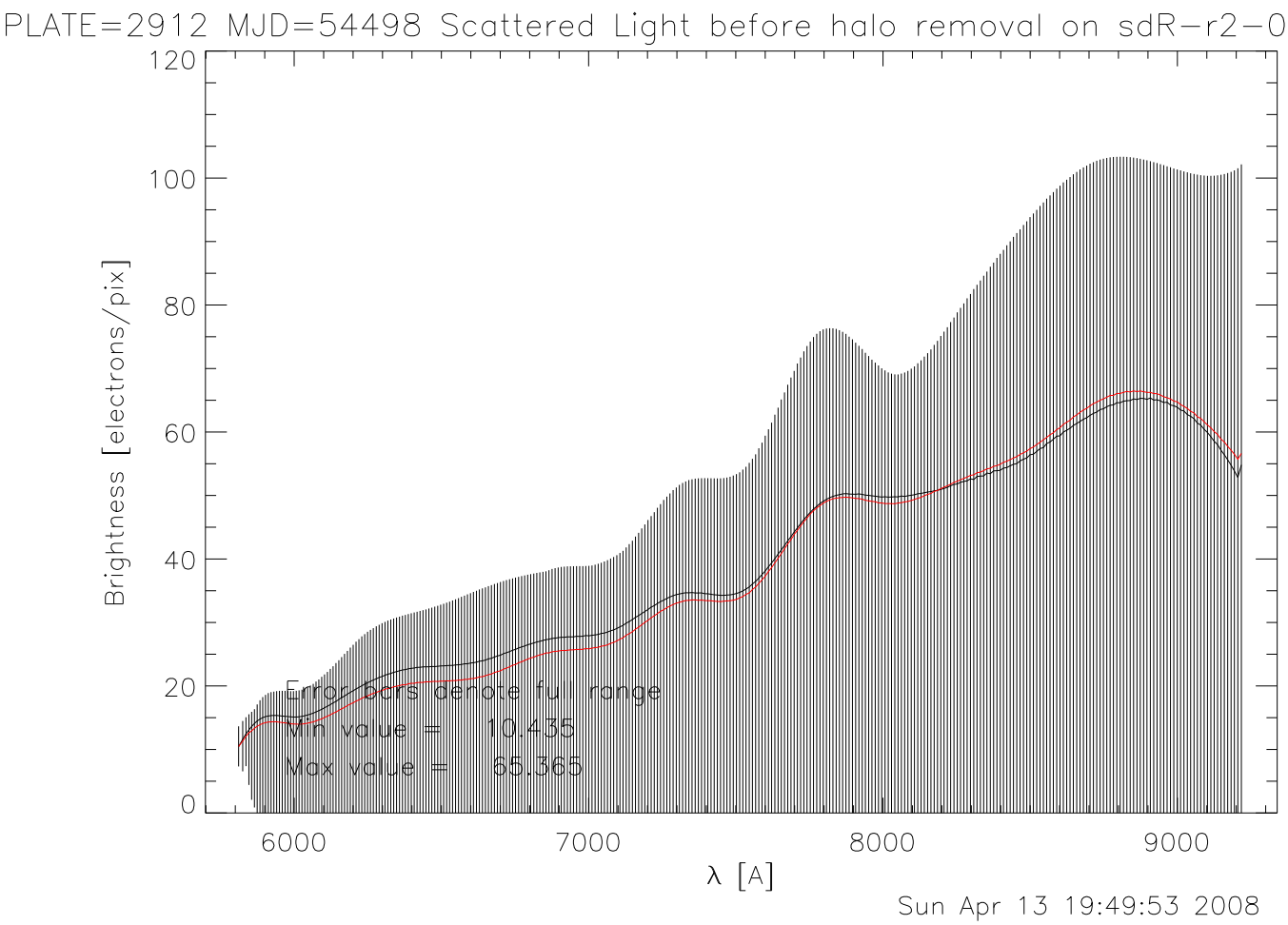

Number of sky fibers = 14
PLATE=2912 MJD=54498 sdR-r2-00049472.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

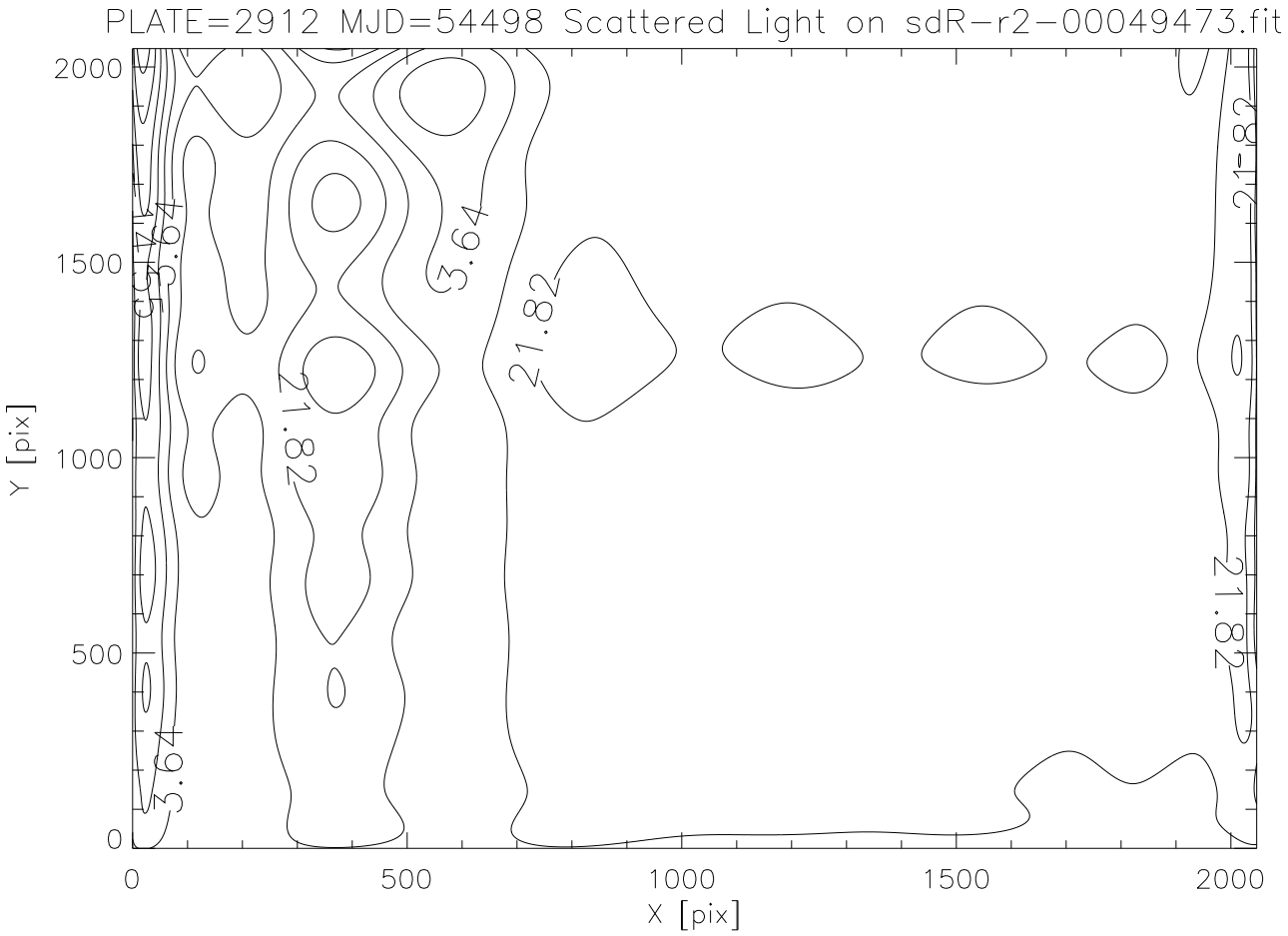

PLATE=2912 MJD=54498 sdR-r2-00049472.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.66 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

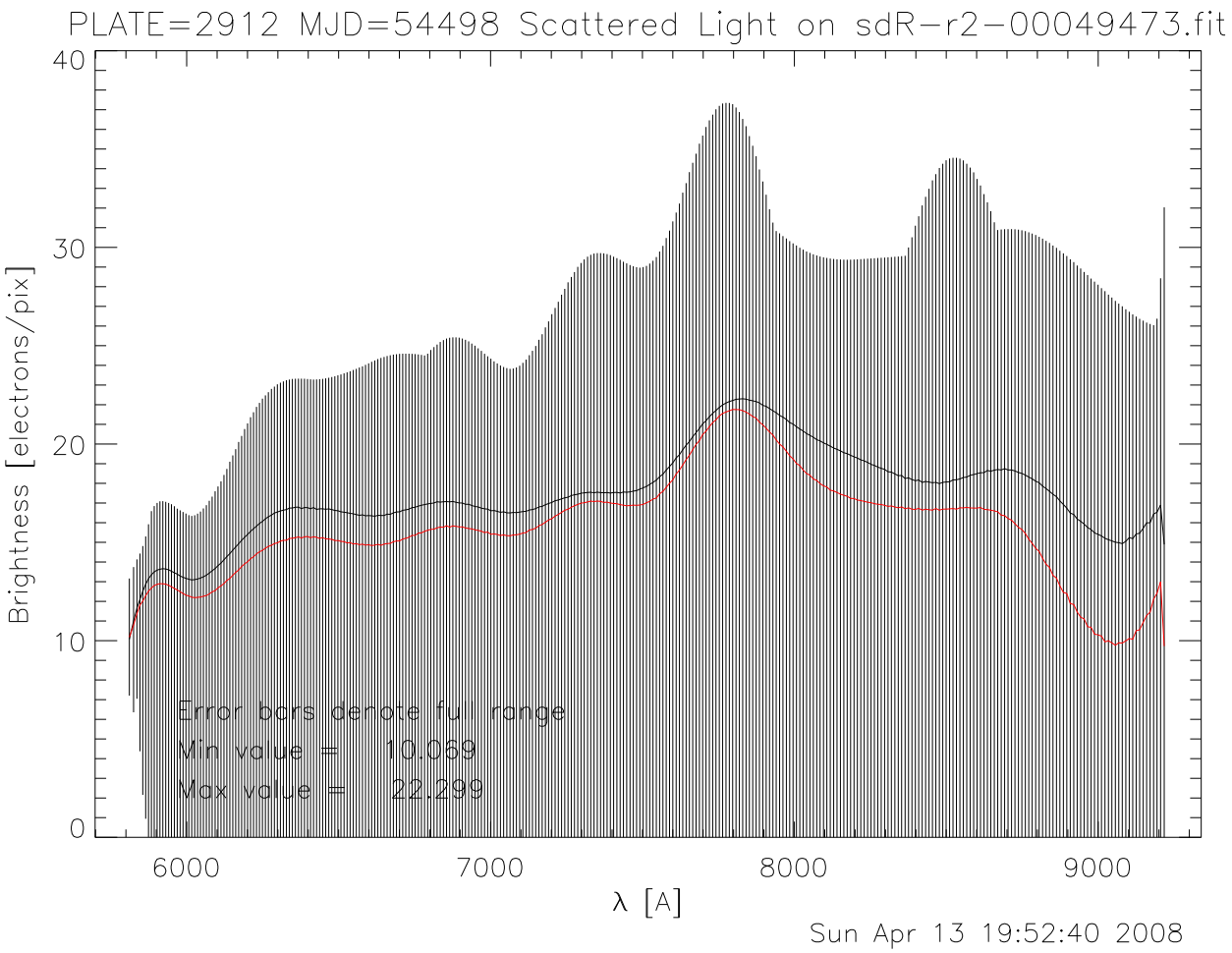

PLATE=2912 MJD=54498 sdR-r2-00049472.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.62 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

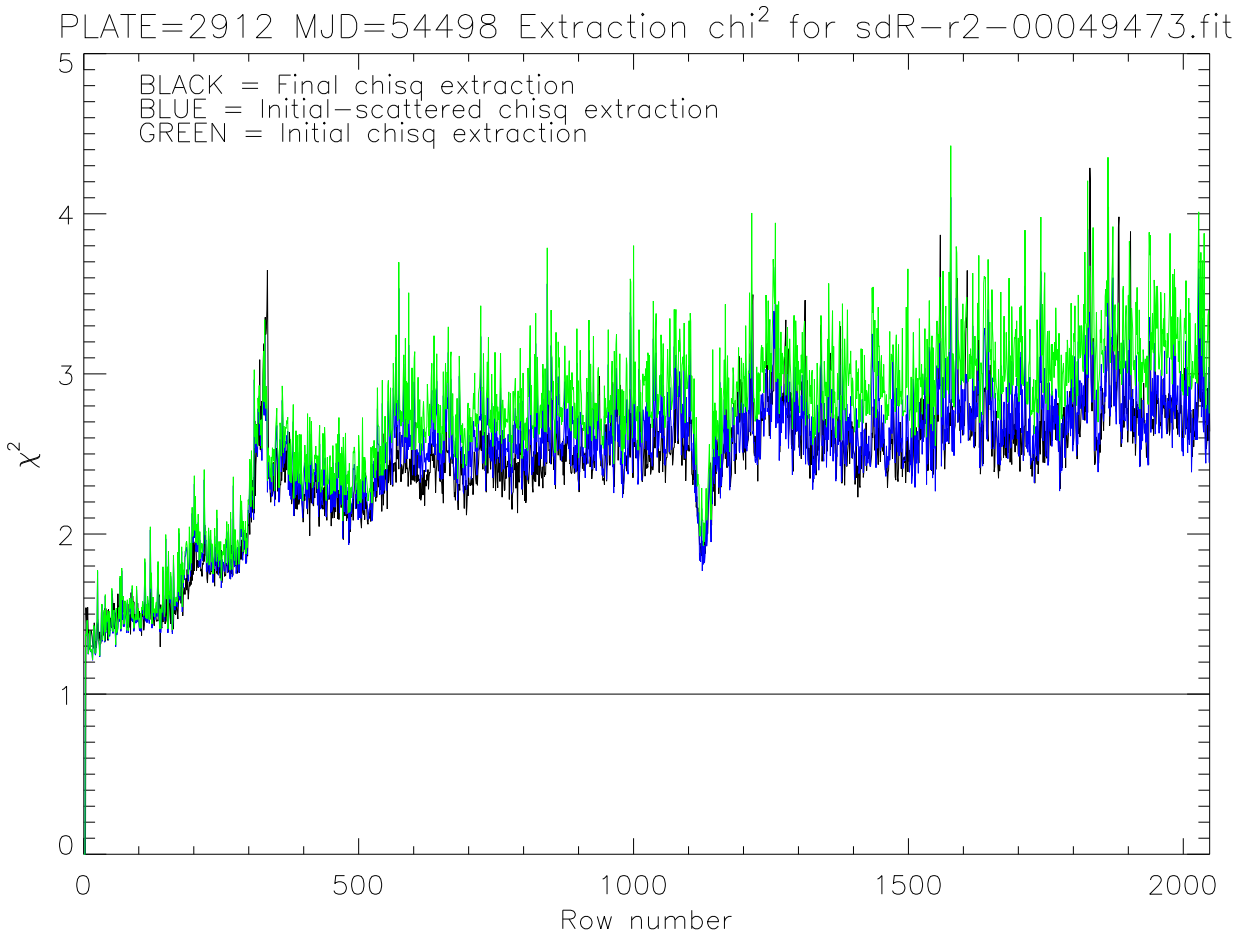

PLATE=2912 MJD=54498 Fiber−Flats for sdR−r2−00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.108
Max value = 1.165
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Apr 13 19:48:34 2008

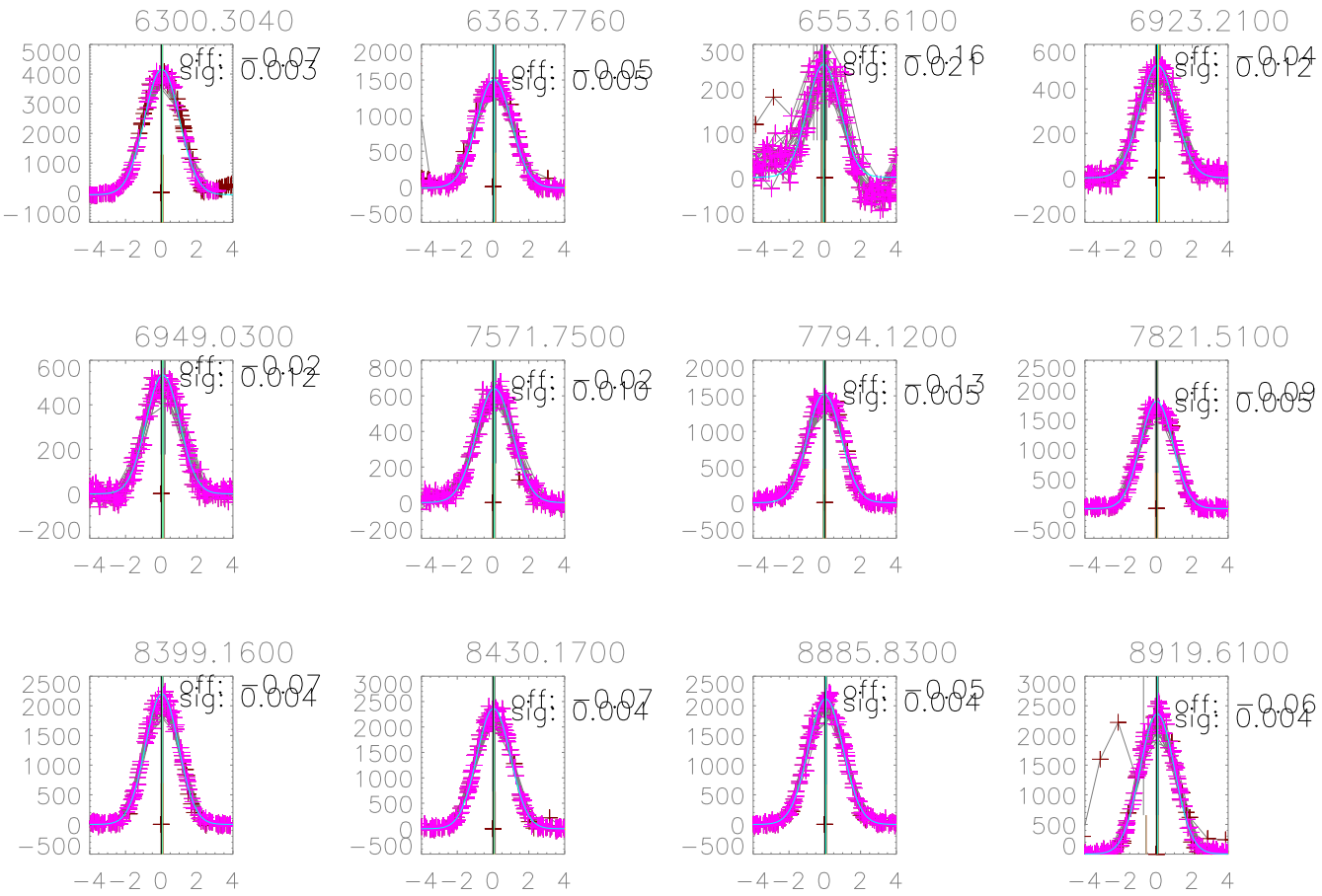

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r2-00049473.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
0
77.27
40.91
40.91
40.91
40.91
4.55

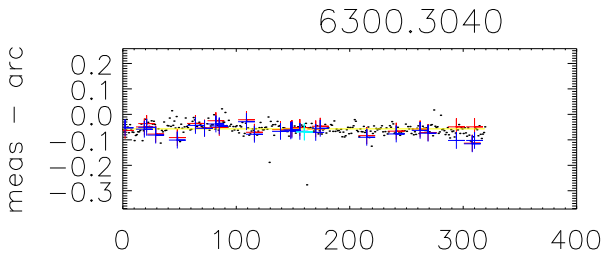

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r2-00049473.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.435
Max value = 65.365
Sun Apr 13 19:49:53 2008

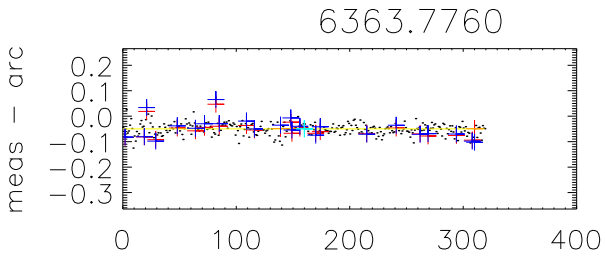

PLATE=2912 MJD=54498 Scattered Light on sdR-r2-00049473.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.64
21.82
0

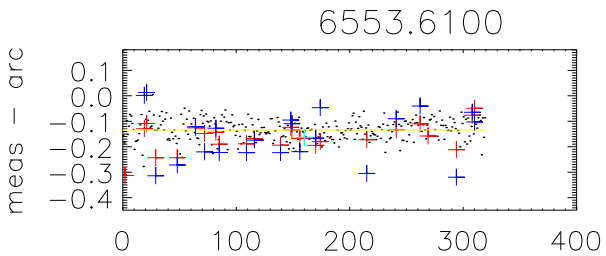

PLATE=2912 MJD=54498 Scattered Light on sdR-r2-00049473.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.059
Max value = 22.299
Sun Apr 13 19:52:40 2008

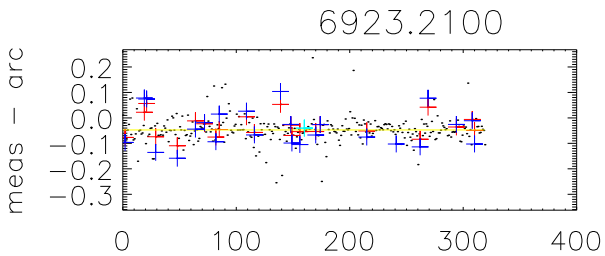

PLATE=2912 MJD=54498 Extraction chi^2 for sdR-r2-00049473.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

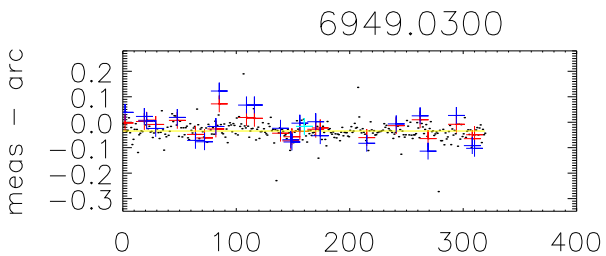

6300.3040
off: −0.07
sig: 0.003
6363.7760
off: −0.05
sig: 0.005
6553.6100
off: −0.16
sig: 0.021
6923.2100
off: −0.04
sig: 0.012
6949.0300
off: −0.02
sig: 0.012
7571.7500
off: −0.02
sig: 0.010
7794.1200
off: −0.13
sig: 0.005
7821.5100
off: −0.09
sig: 0.003
8399.1600
off: −0.07
sig: 0.004
8430.1700
off: −0.07
sig: 0.004
8885.8300
off: −0.05
sig: 0.004
8919.6100
off: −0.06
sig: 0.004

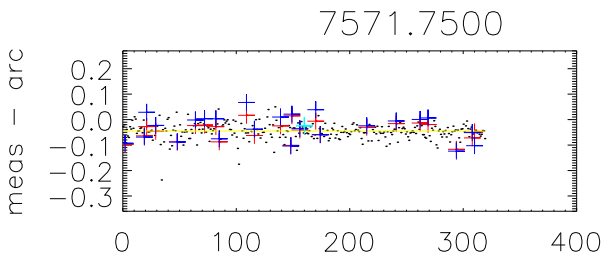

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

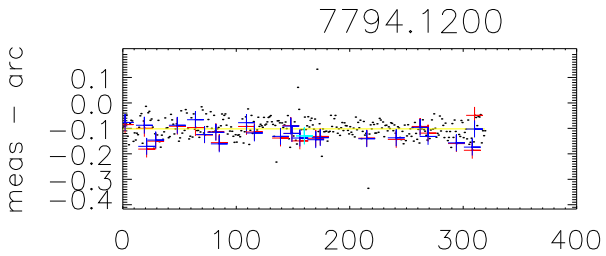

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

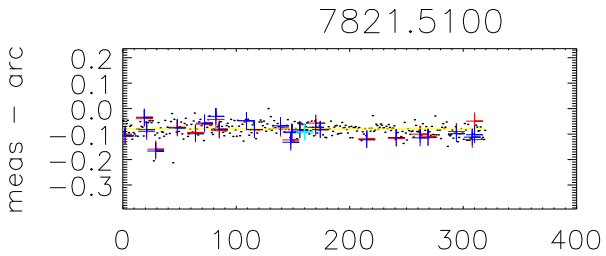

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

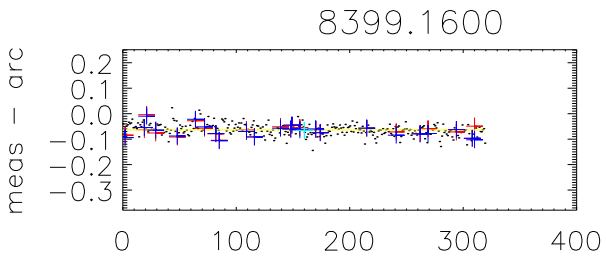

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

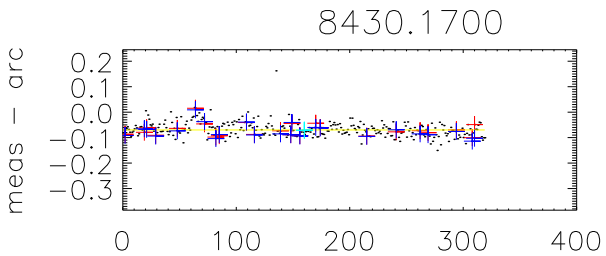

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

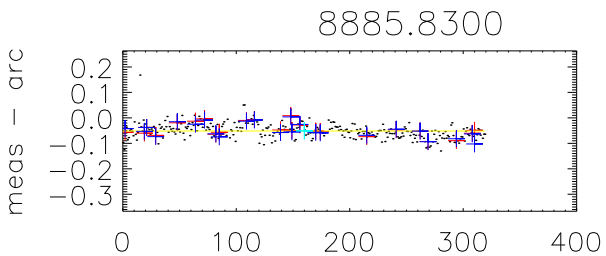

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

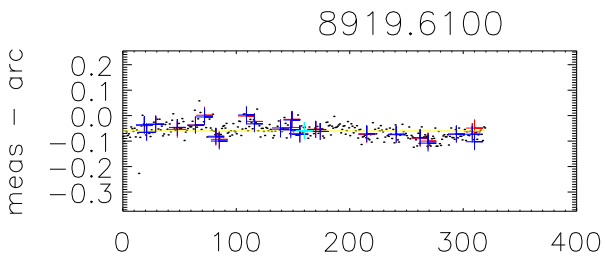

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

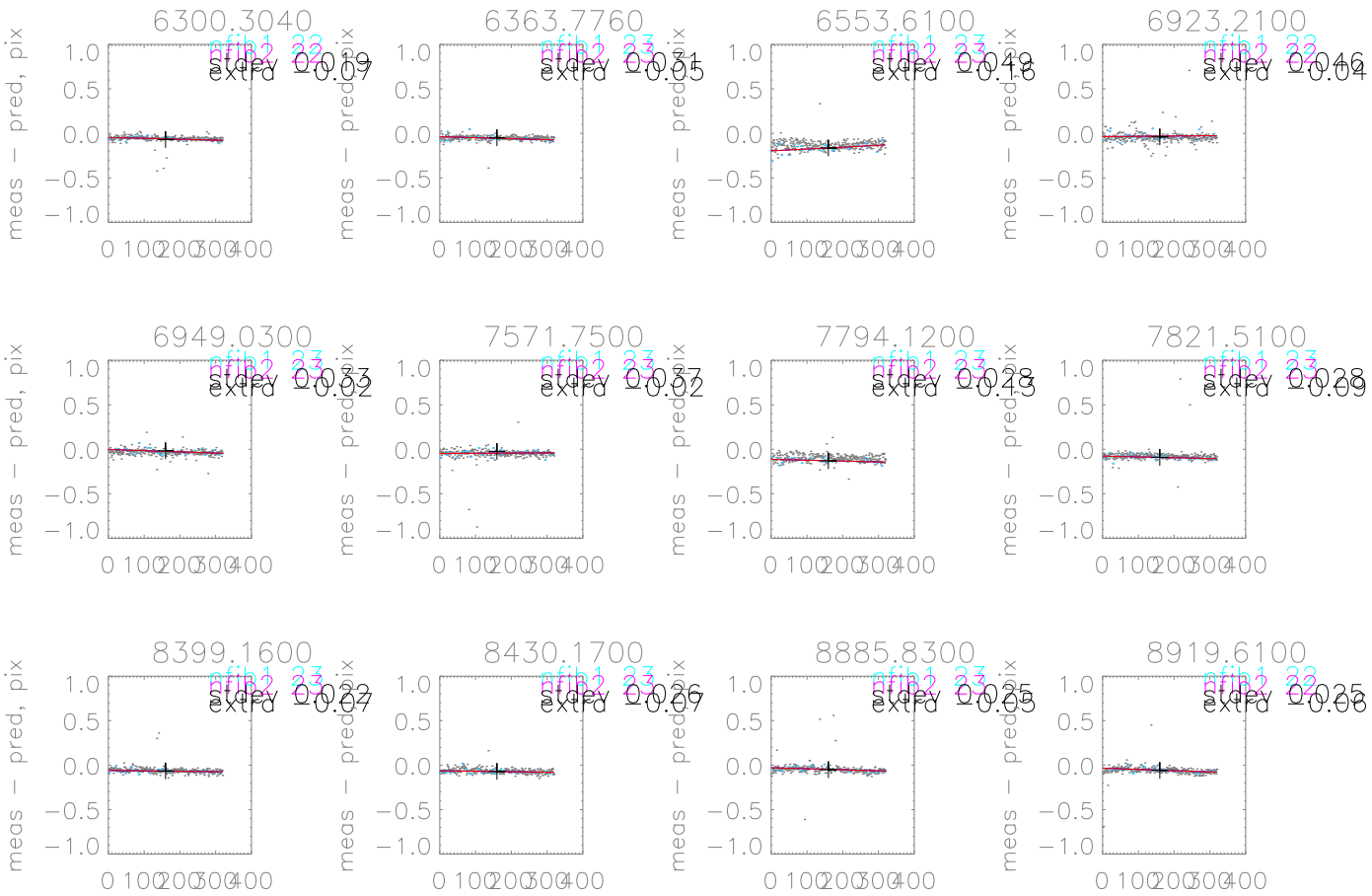

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

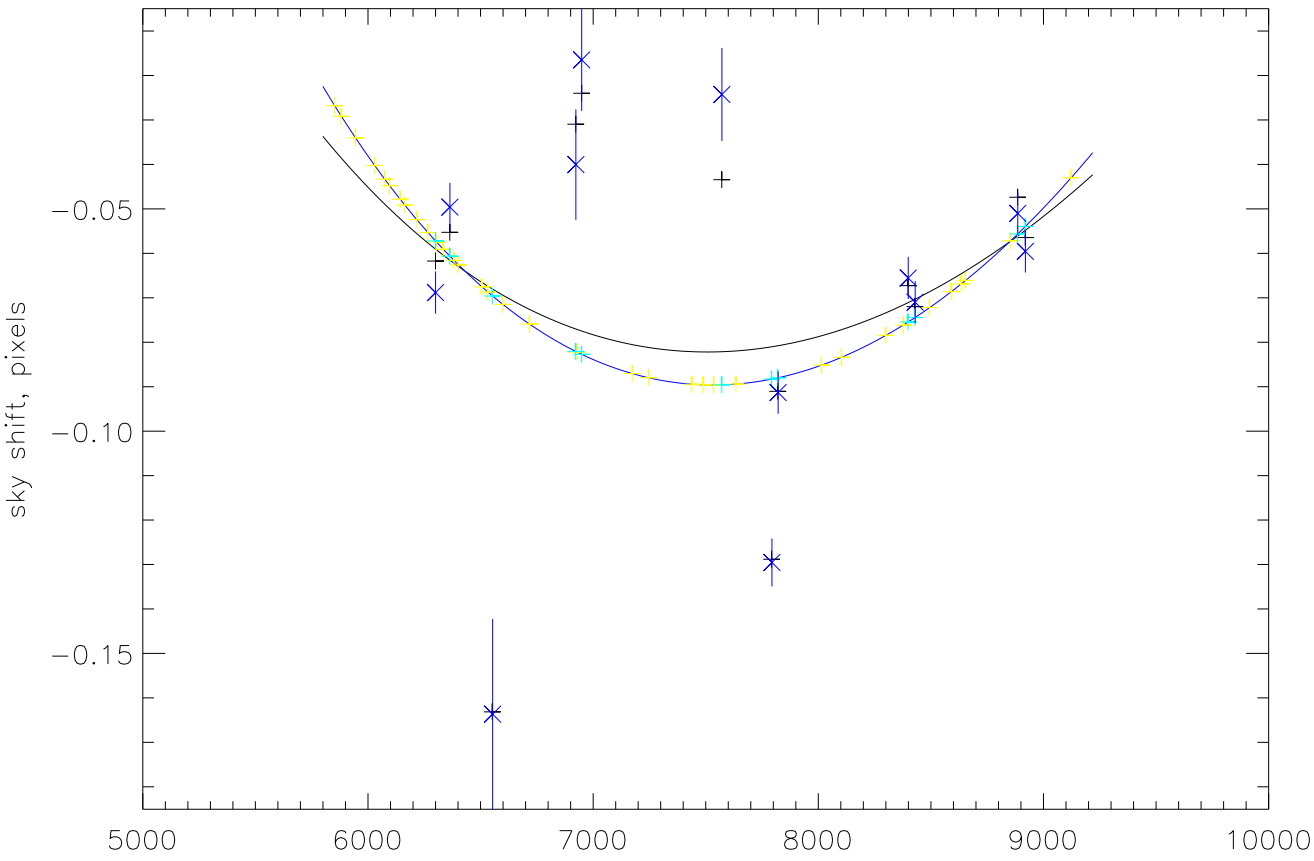

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

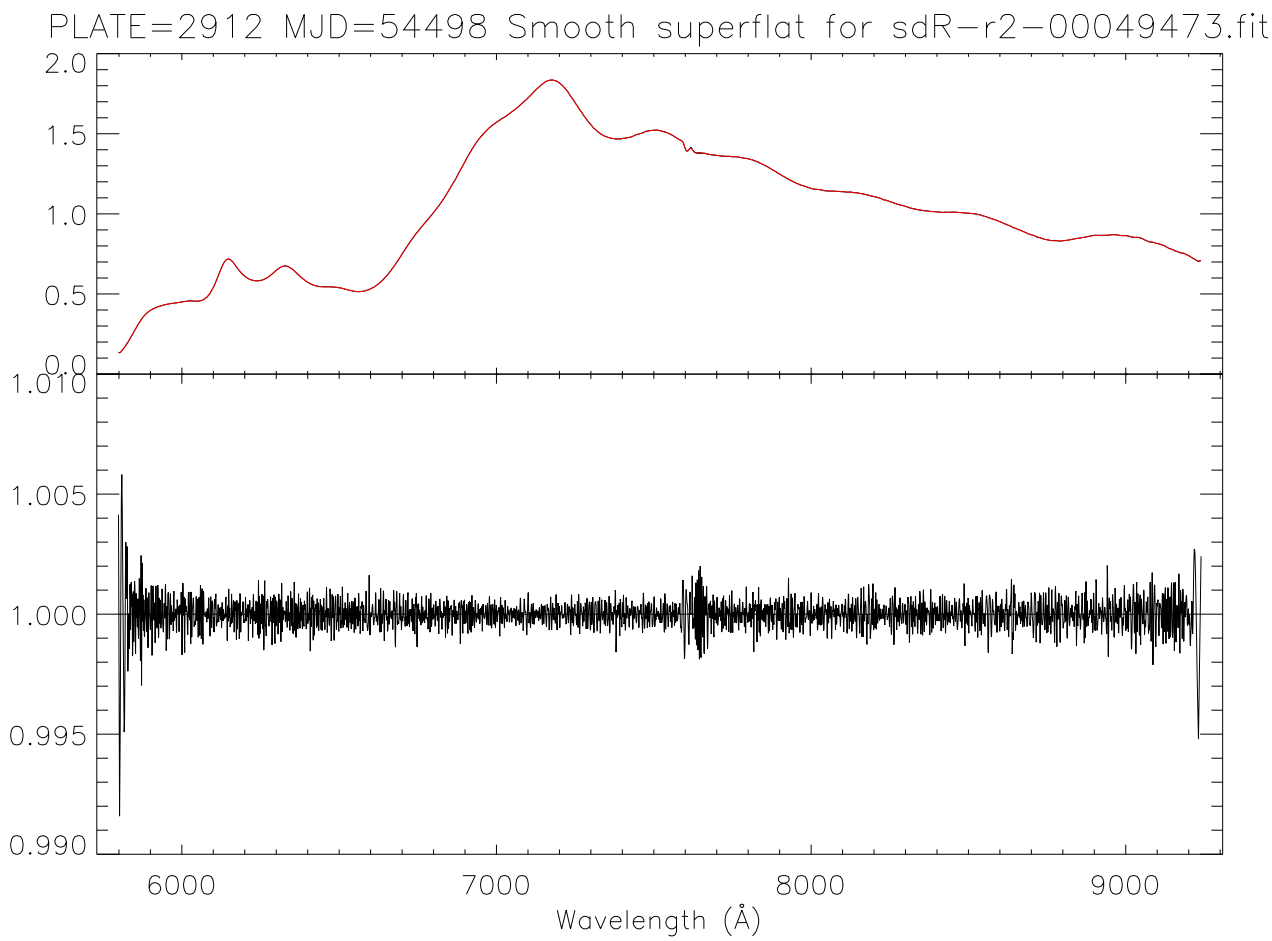

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

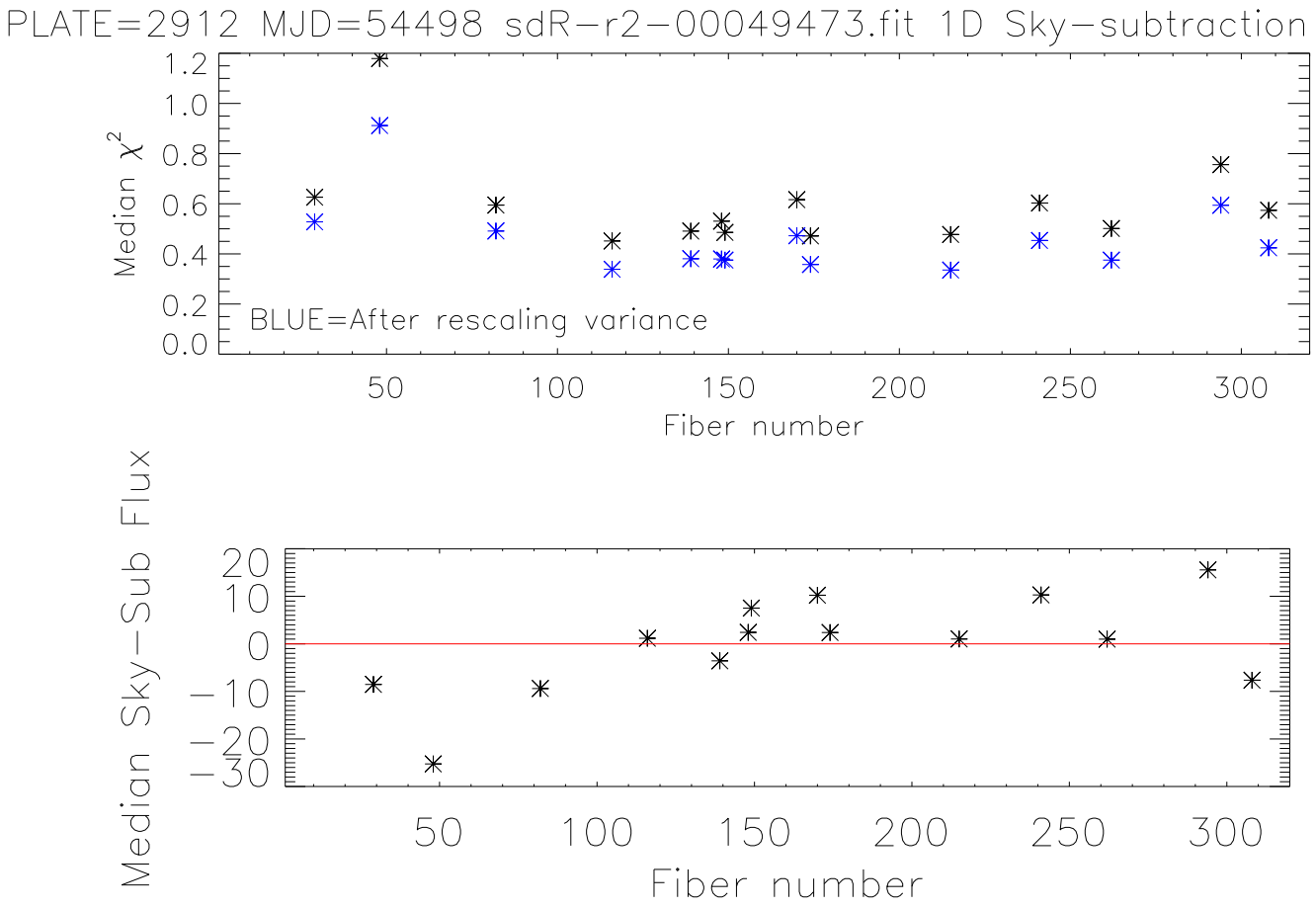

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

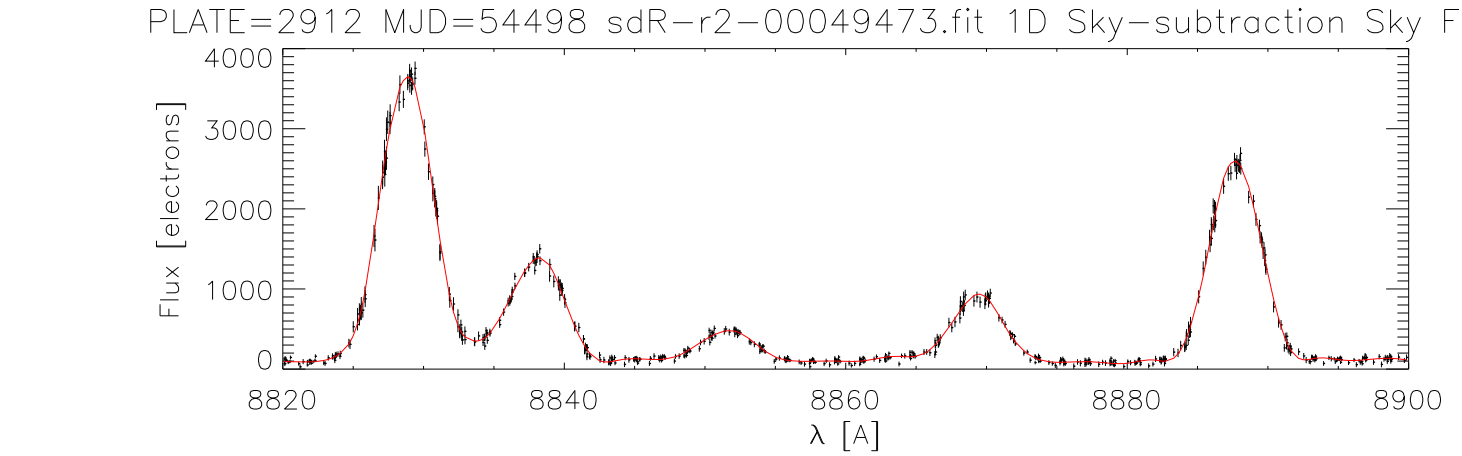

6300.3040
mfib1 23
mfib2 22
stdev 0.019
extra −0.07
6363.7760
mfib1 23
mfib2 23
stdev 0.031
extra −0.05
6553.6100
mfib1 23
mfib2 23
stdev 0.049
extra −0.18
6923.2100
mfib1 23
mfib2 22
stdev 0.046
extra −0.04
6949.0300
mfib1 23
mfib2 23
stdev 0.033
extra −0.02
7571.7500
mfib1 23
mfib2 23
stdev 0.037
extra −0.02
7794.1200
mfib1 23
mfib2 23
stdev 0.028
extra −0.43
7821.5100
mfib1 23
mfib2 23
stdev 0.028
extra −0.09
8399.1600
mfib1 23
mfib2 23
stdev 0.022
extra −0.07
8430.1700
mfib1 23
mfib2 23
stdev 0.026
extra −0.07
8885.8300
mfib1 23
mfib2 23
stdev 0.025
extra −0.05
8919.6100
mfib1 23
mfib2 22
stdev 0.025
extra −0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

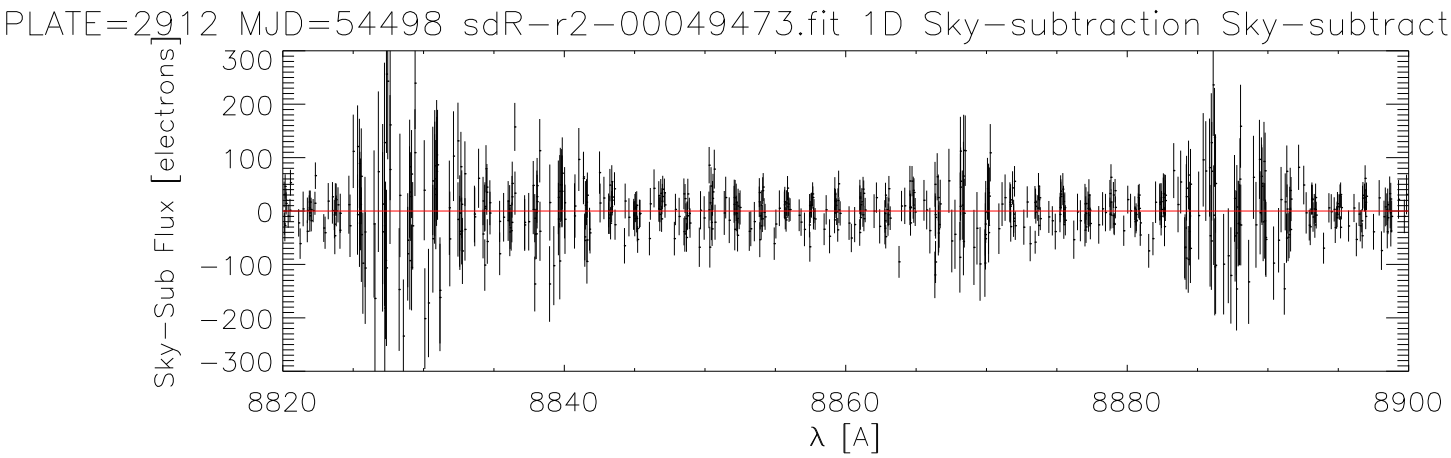

sky shift, pixels
−0.05
−0.10
−0.15
5000
6000
7000
8000
9000
10000

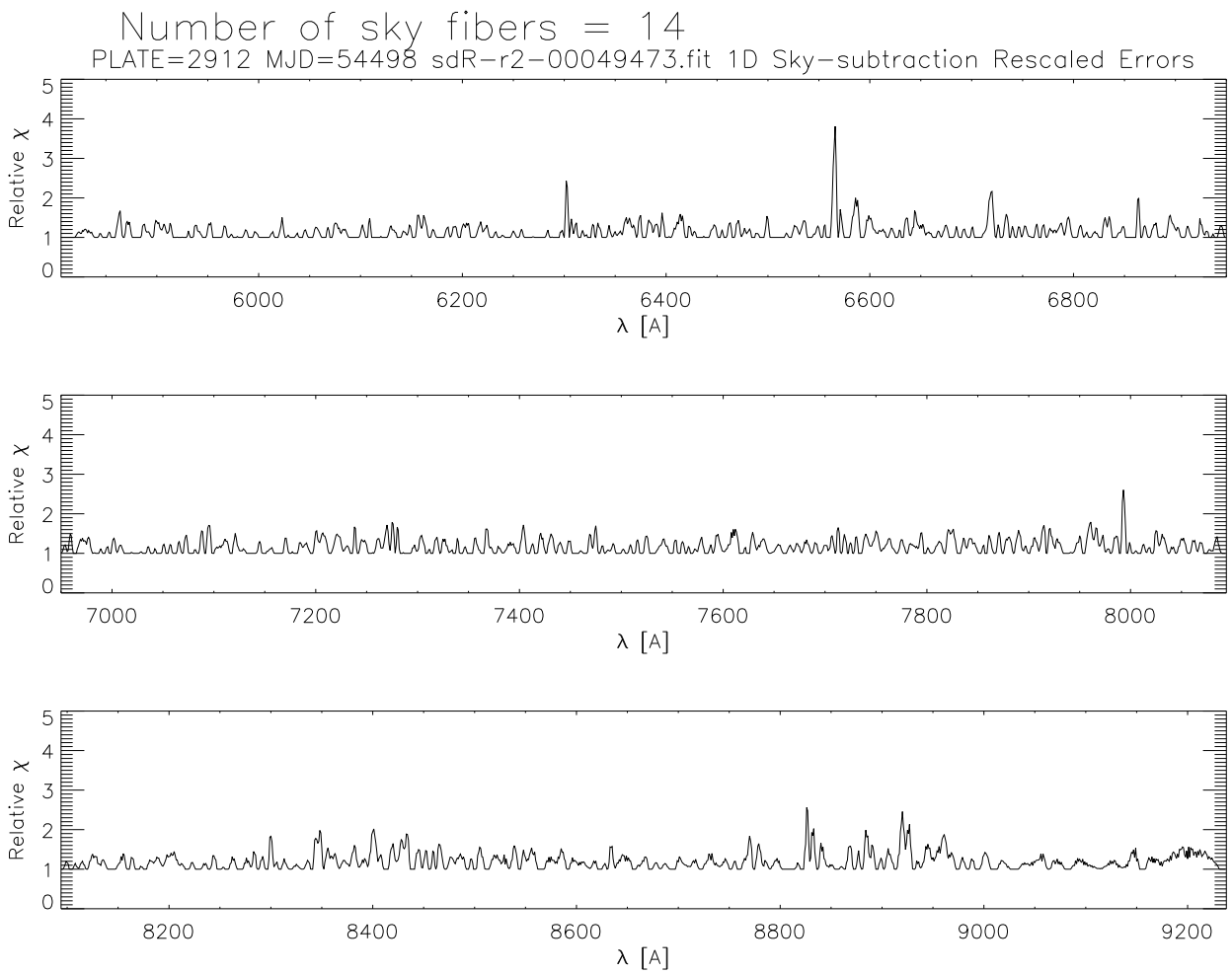
es= −0.0000

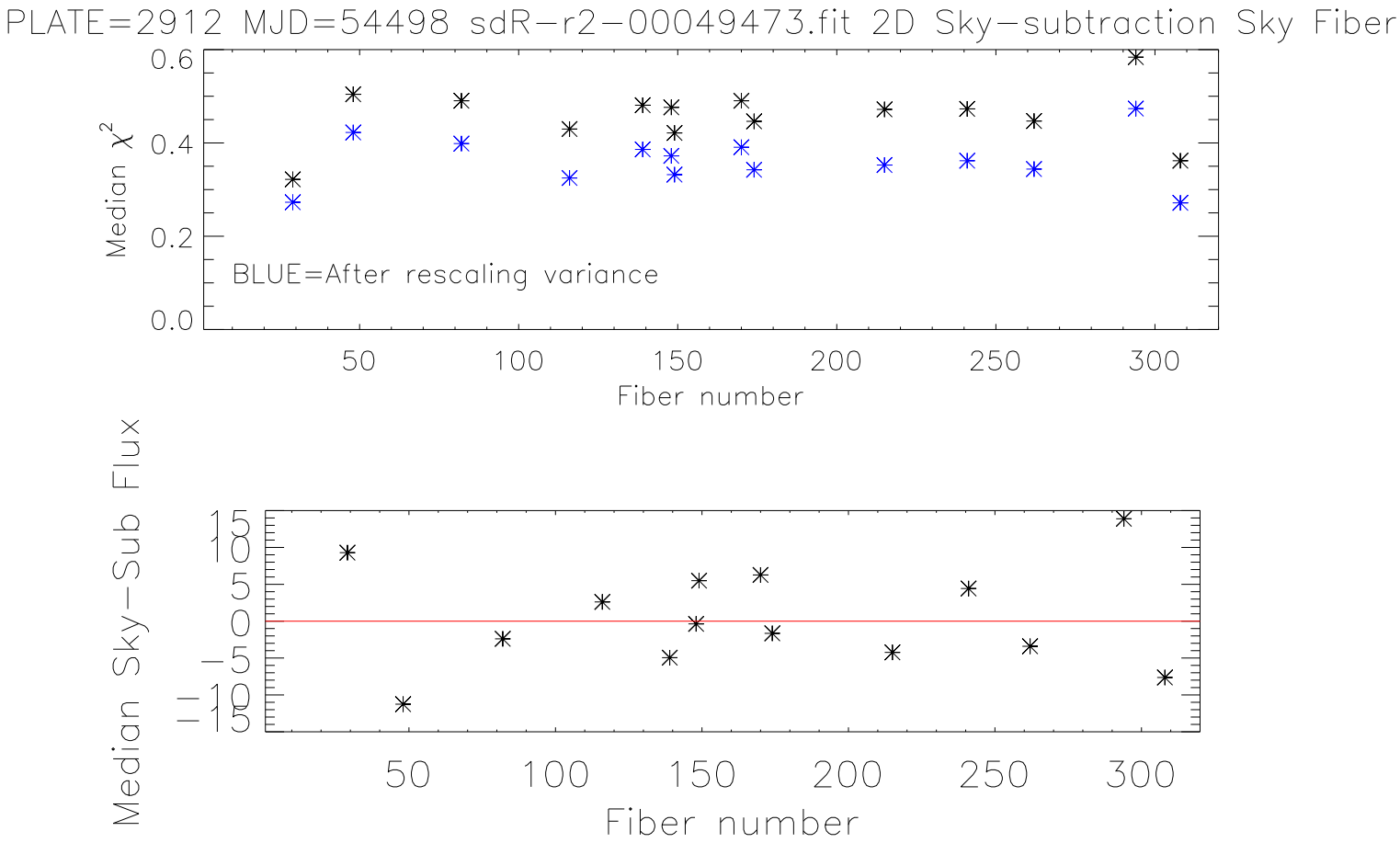

PLATE=2912 MJD=54498 Smooth superflat for sdR−r2−00049473.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

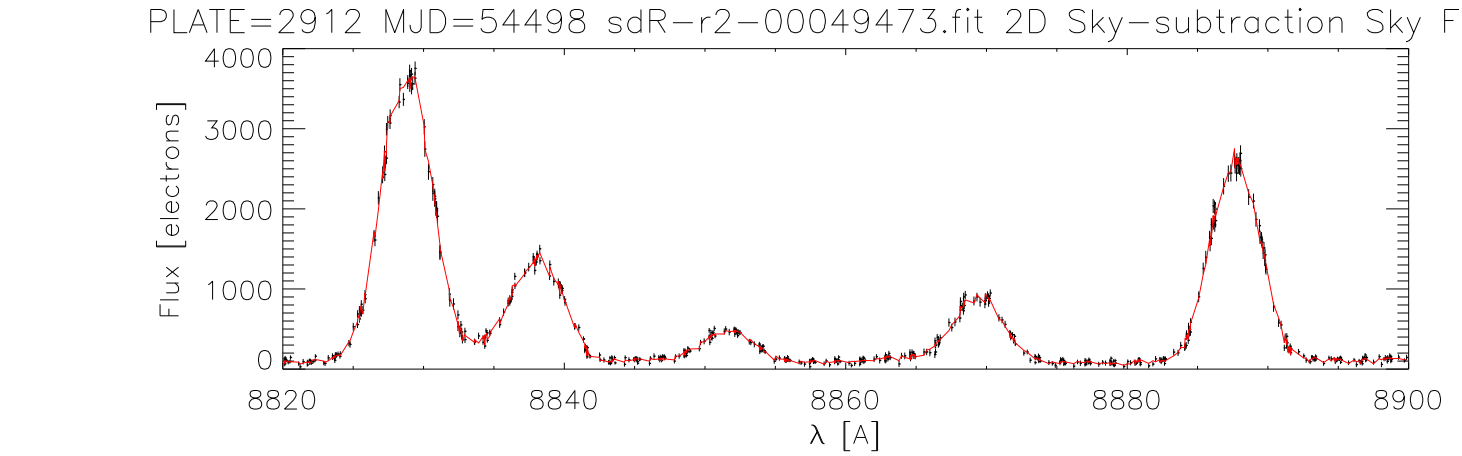

PLATE=2912 MJD=54498 sdR-r2-00049473.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

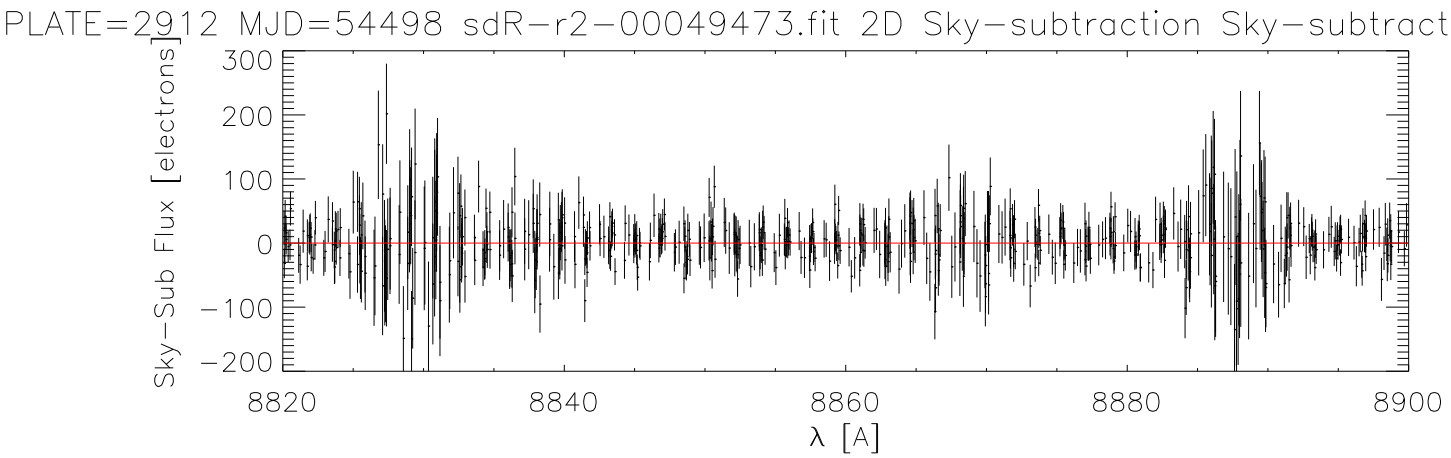

PLATE=2912 MJD=54498 sdR-r2-00049473.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

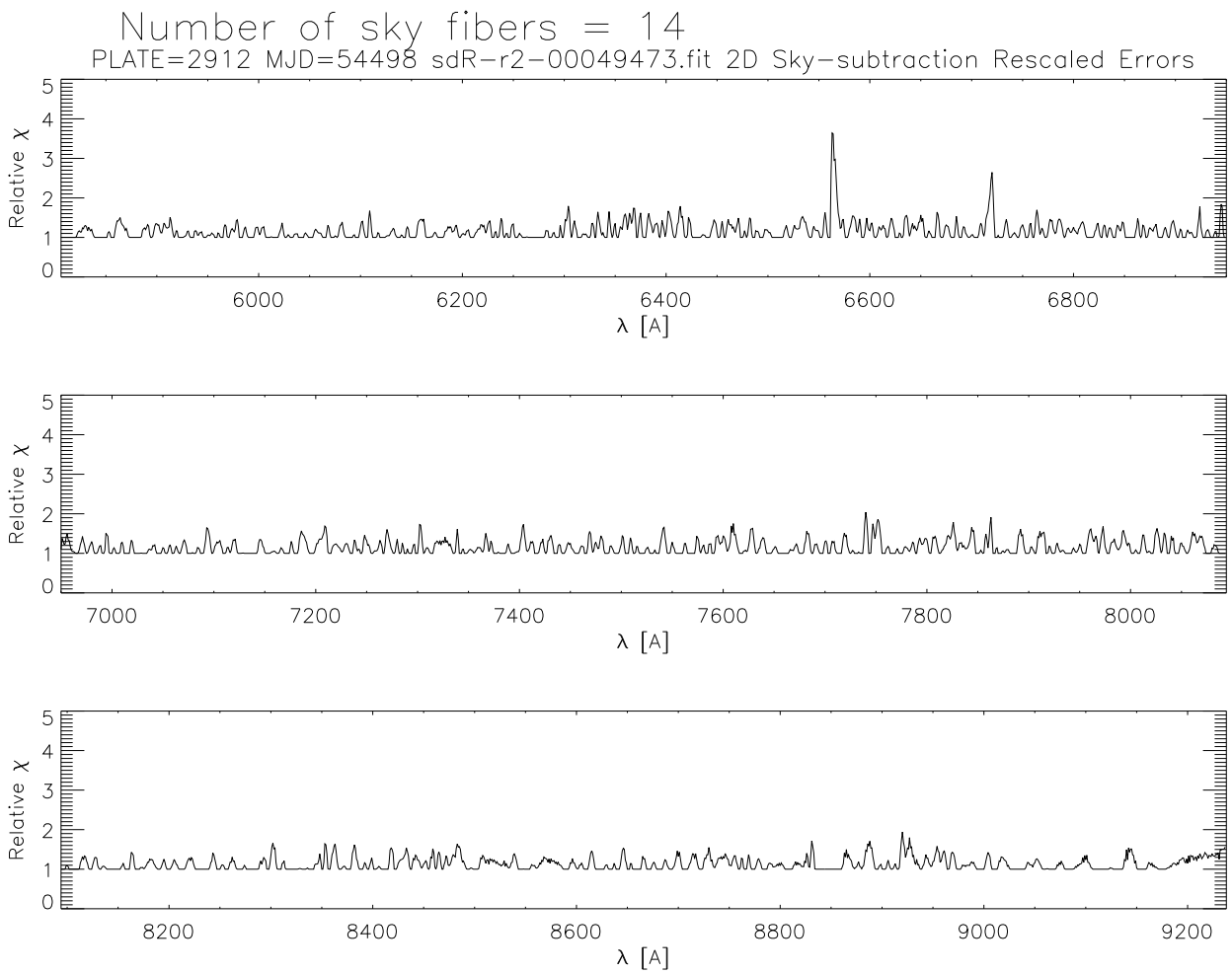

PLATE=2912 MJD=54498 sdR-r2-00049473.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

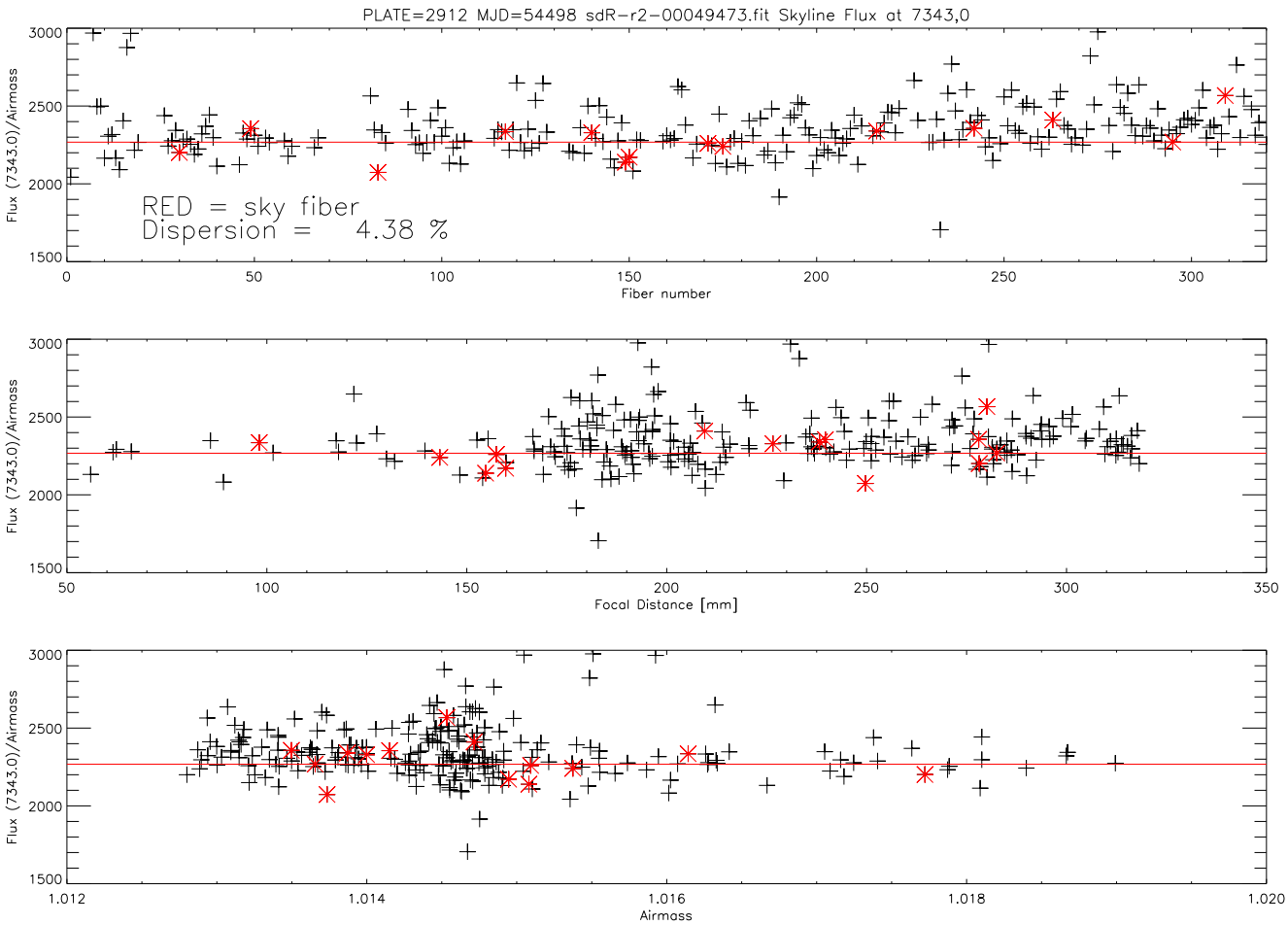

Number of sky fibers = 14
PLATE=2912 MJD=54498 sdR-r2-00049473.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

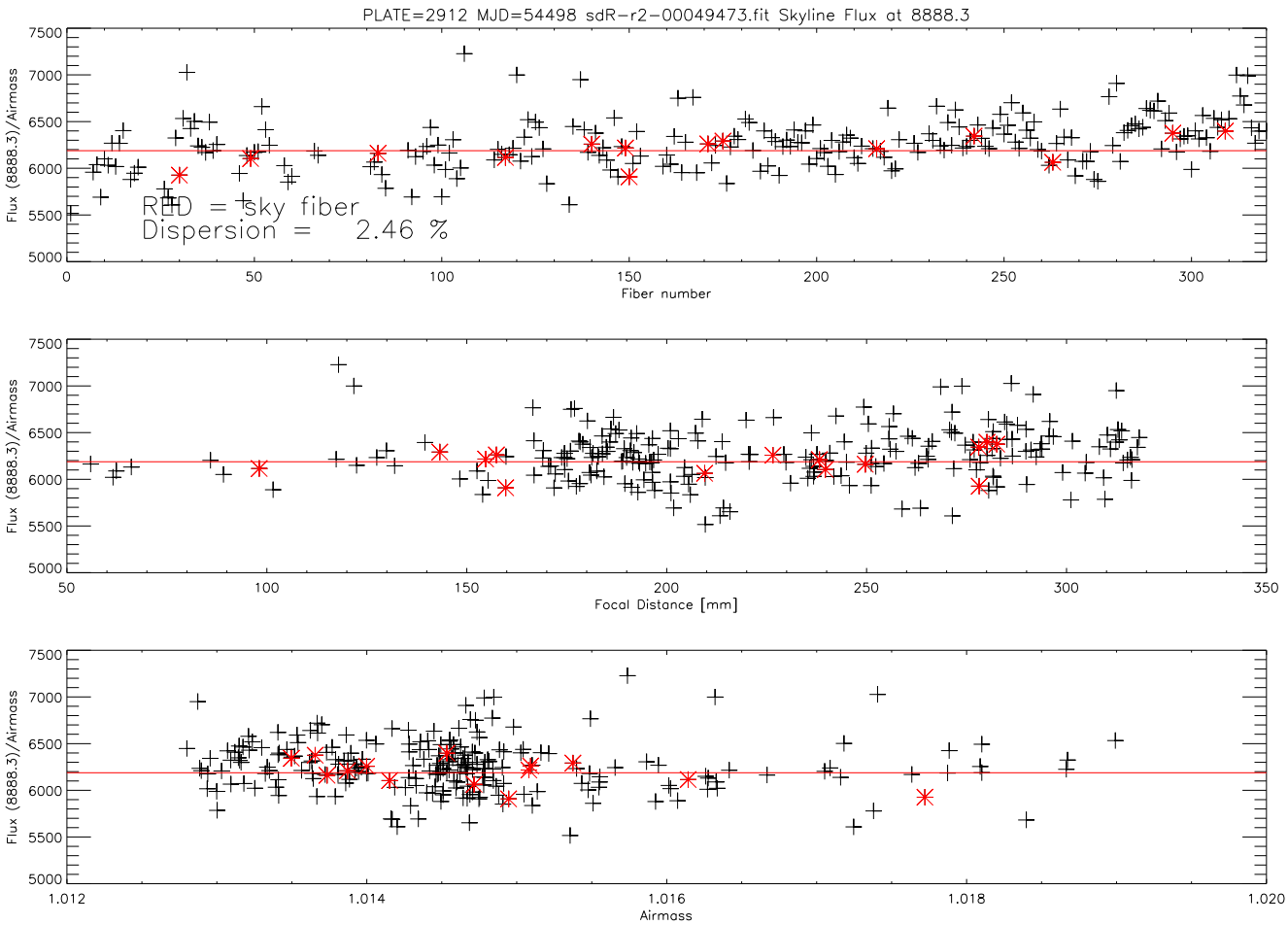

PLATE=2912 MJD=54498 sdR-r2-00049473.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

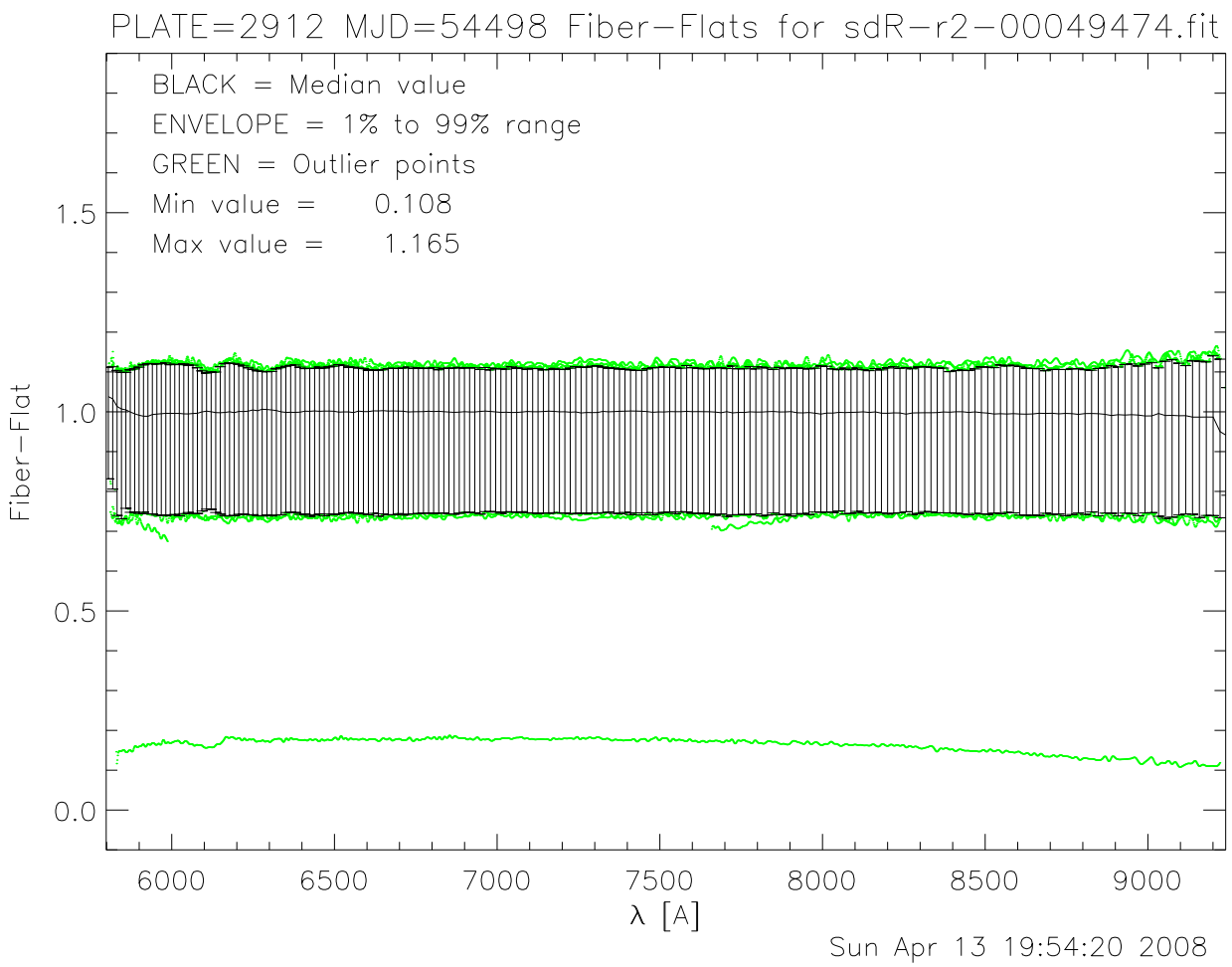

PLATE=2912 MJD=54498 sdR-r2-00049473.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

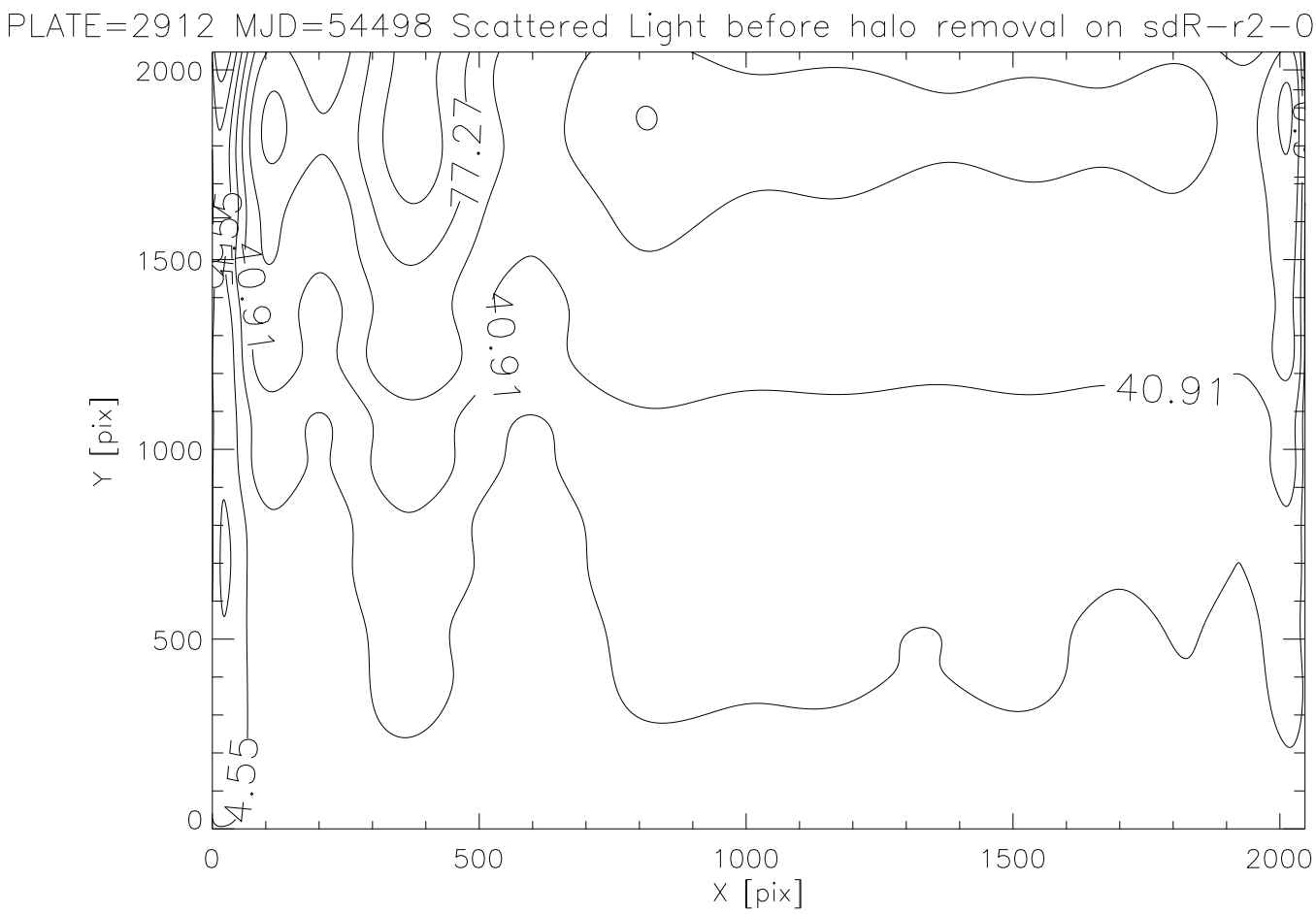

PLATE=2912 MJD=54498 sdR-r2-00049473.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

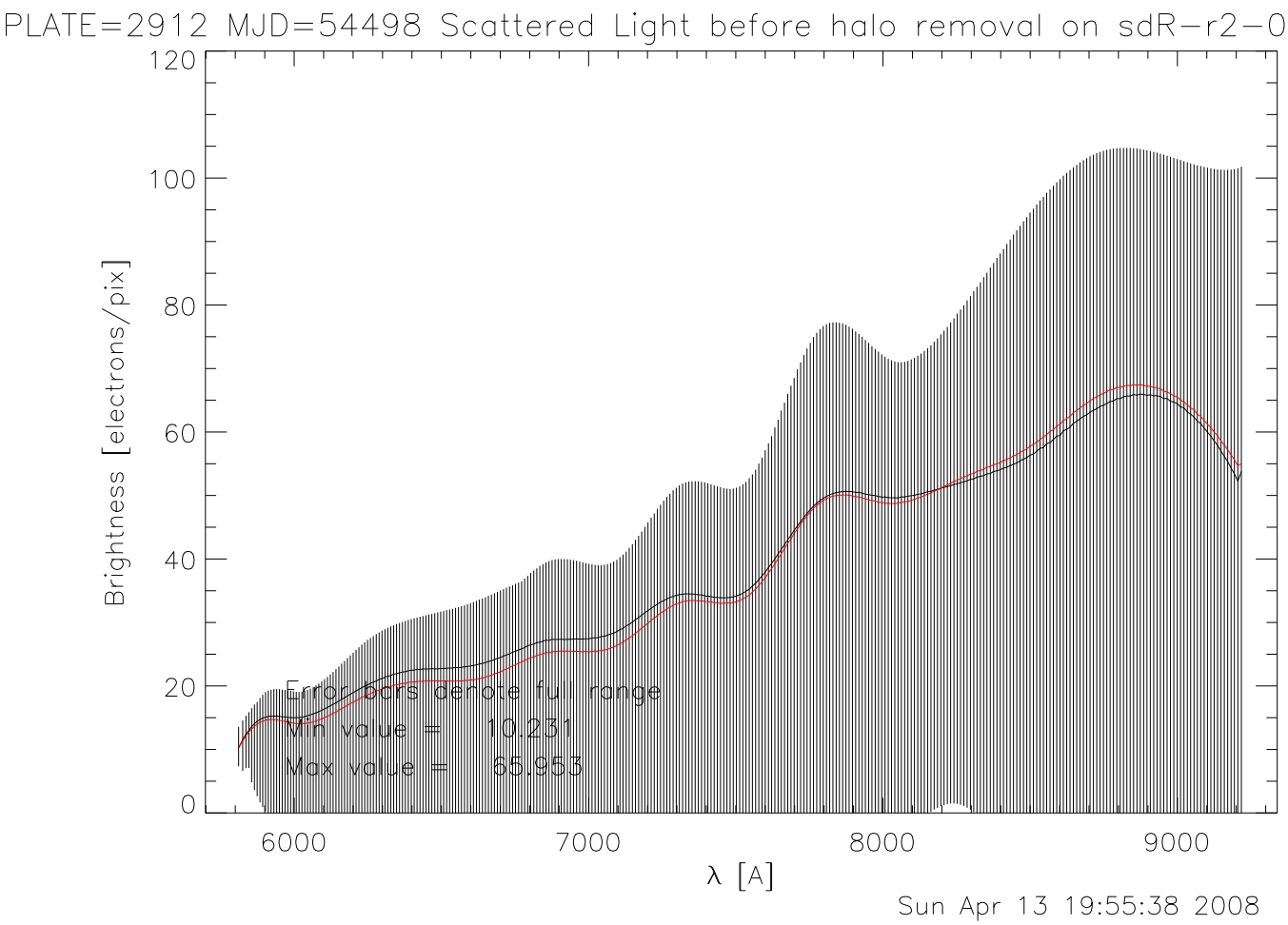

Number of sky fibers = 14
PLATE=2912 MJD=54498 sdR-r2-00049473.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

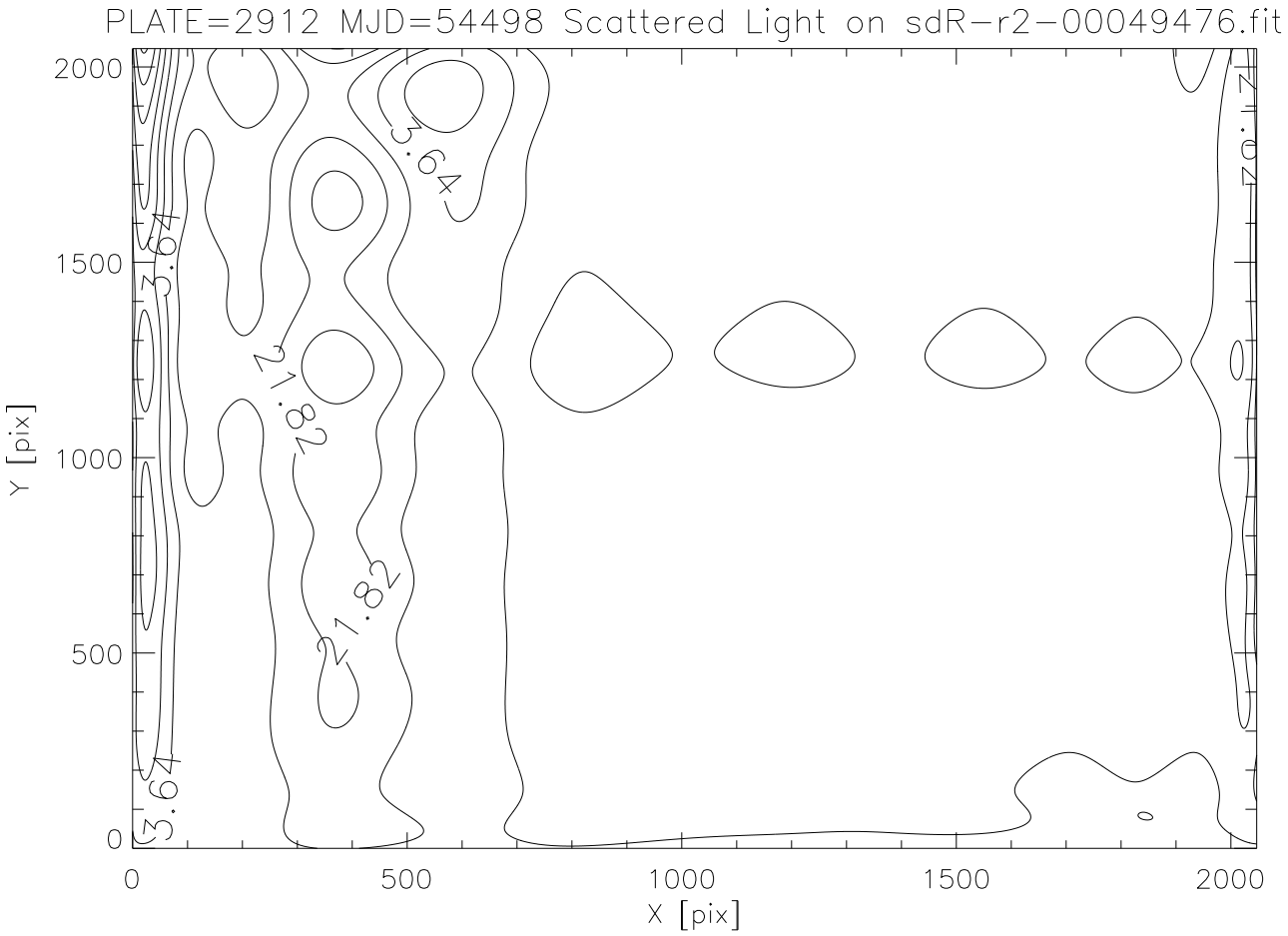

PLATE=2912 MJD=54498 sdR-r2-00049473.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.38 %
Fiber number
Focal Distance [mm]
Airmass

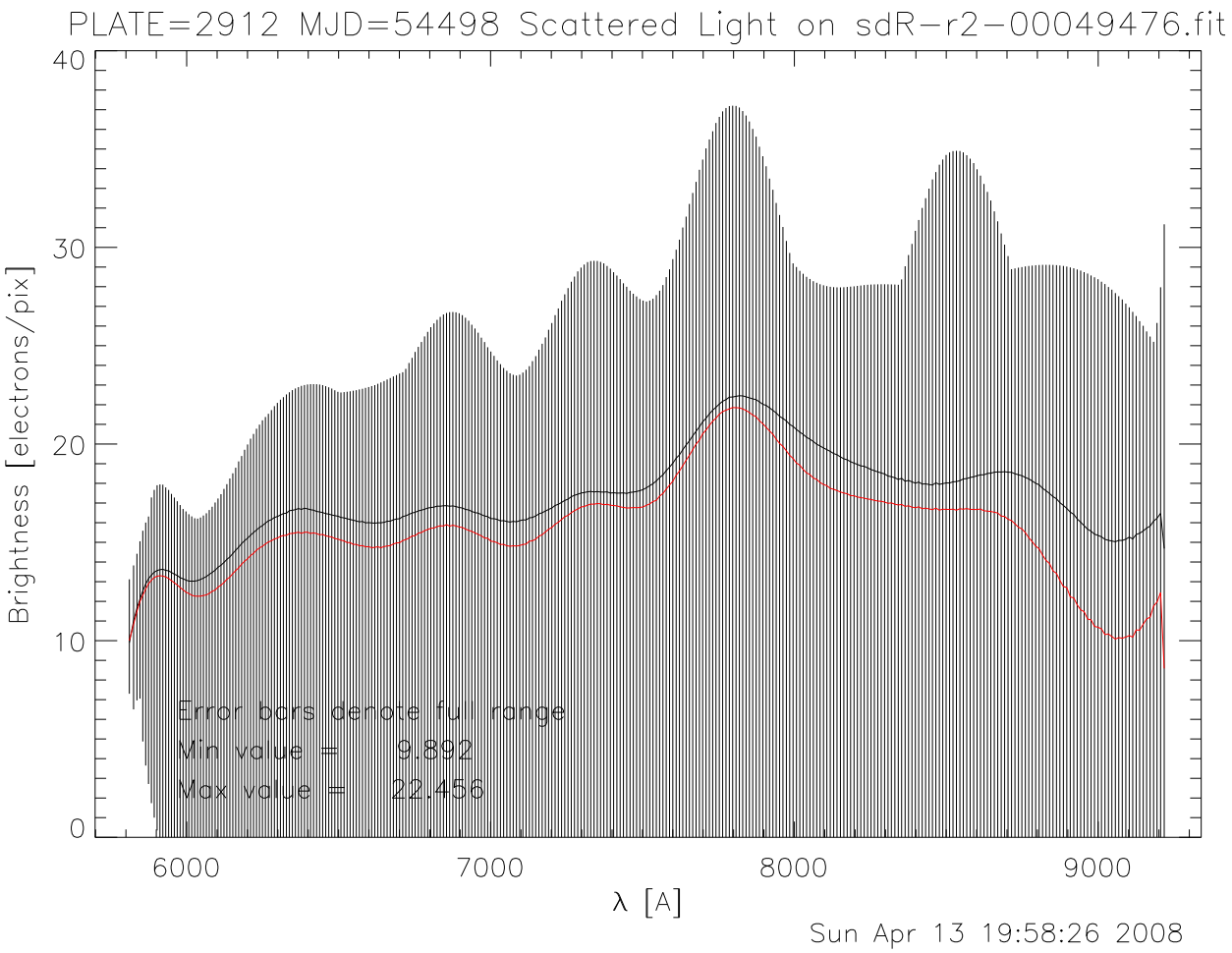

PLATE=2912 MJD=54498 sdR-r2-00049473.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.46 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

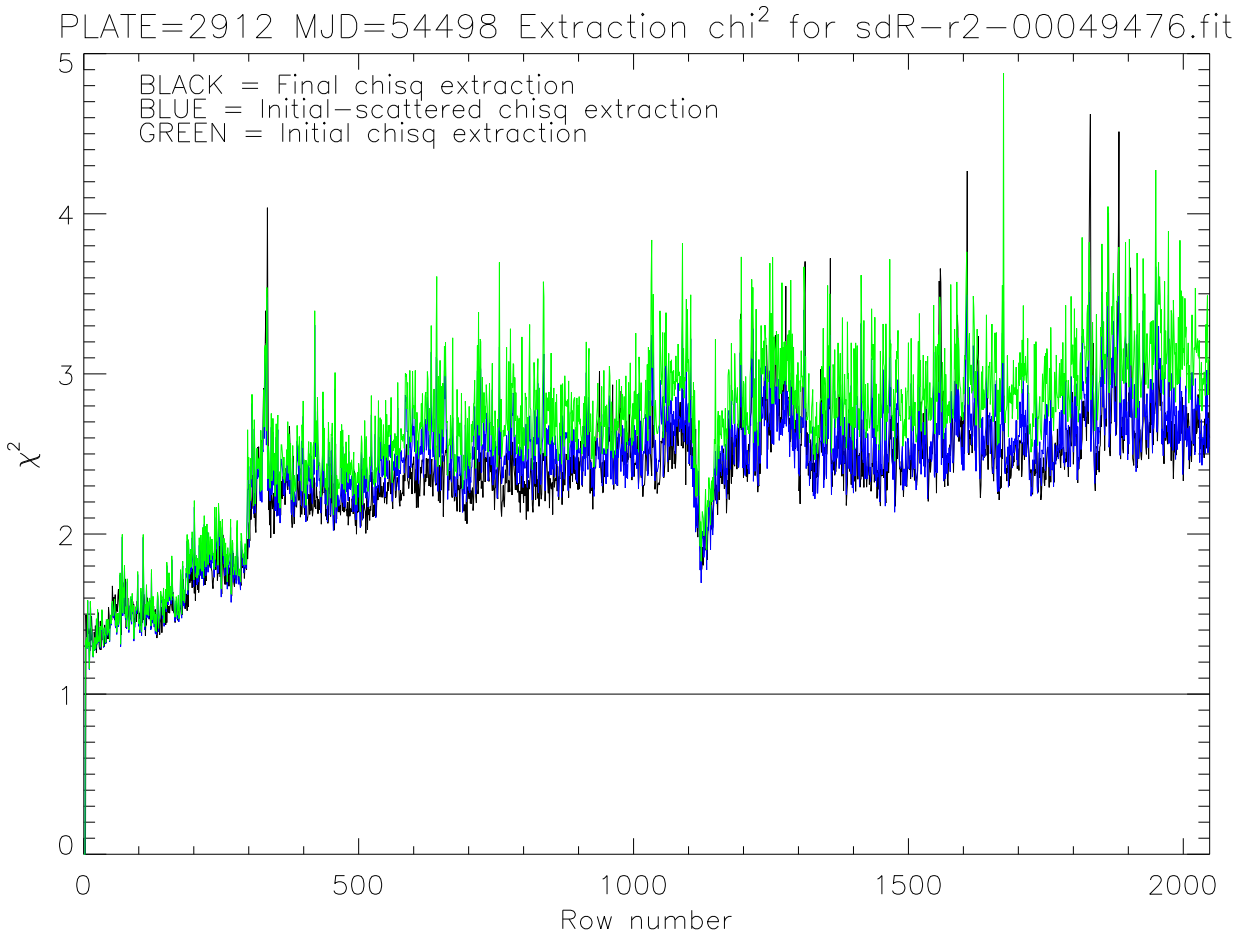

PLATE=2912 MJD=54498 Fiber−Flats for sdR−r2−00049474.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.108
Max value = 1.165
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Apr 13 19:54:20 2008

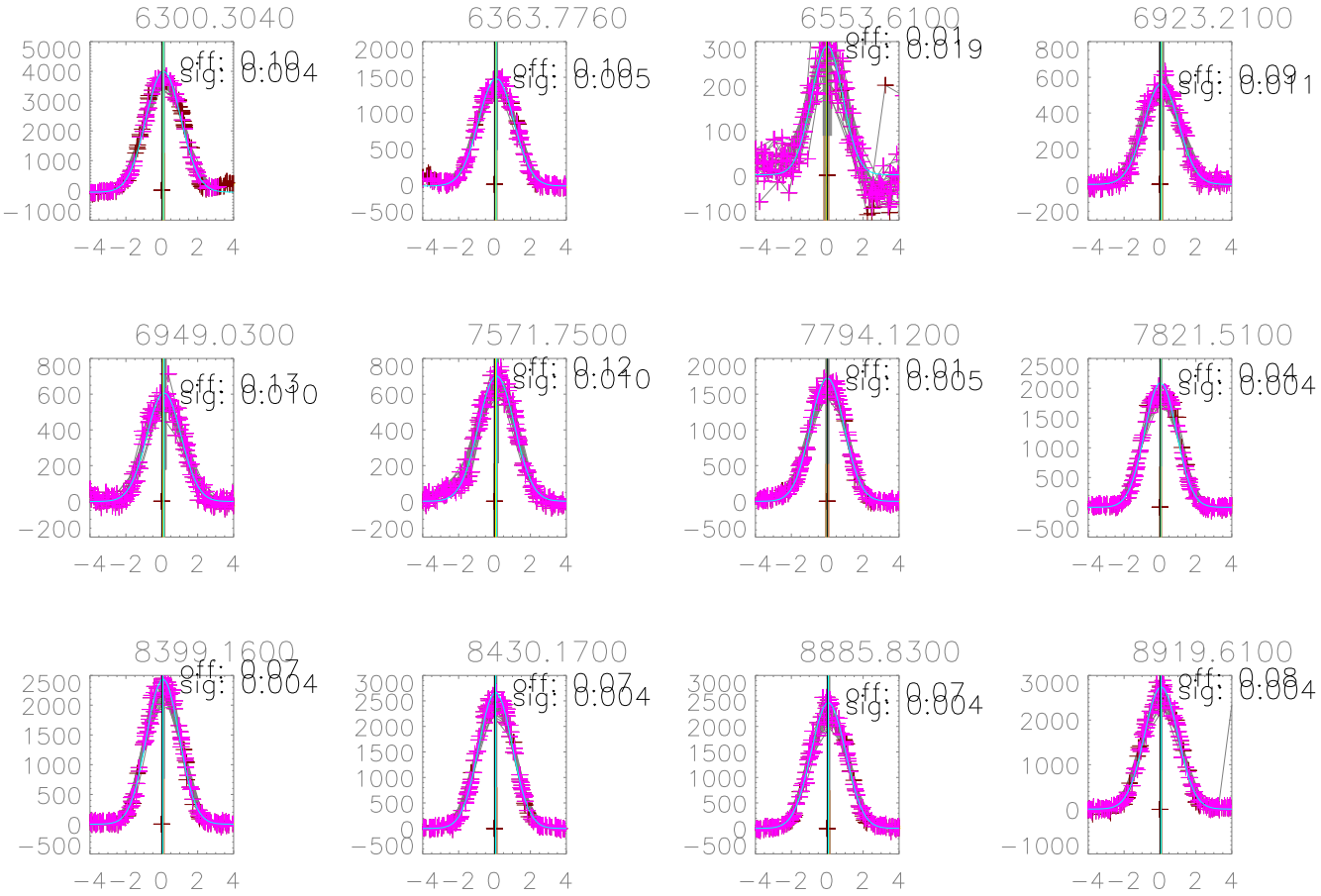

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r2-00049476.fi
0
77.27
40.91
40.91
40.91
4.55
4.55
Y [pix]
X [pix]
0
500
1000
1500
2000

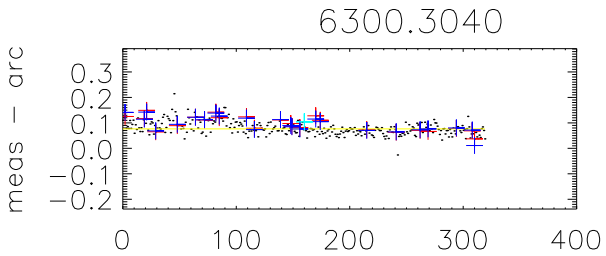

PLATE=2912 MJD=54498 Scattered Light before halo removal on sdR-r2-00049476.fi
Brightness [electrons/pix]
120
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 10.231
Max value = 65.953
Sun Apr 13 19:55:38 2008

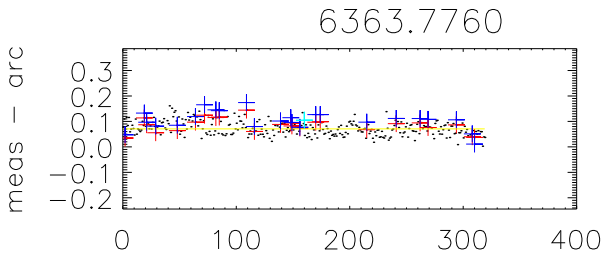

PLATE=2912 MJD=54498 Scattered Light on sdR-r2-00049476.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
3.64
21.82
21.82
3.64
0
0
FZ = 0.4

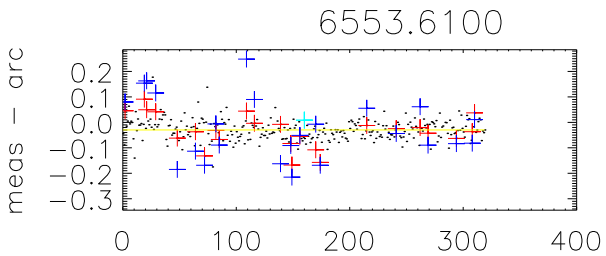

PLATE=2912 MJD=54498 Scattered Light on sdR-r2-00049476.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 9.892
Max value = 22.456
Sun Apr 13 19:58:26 2008

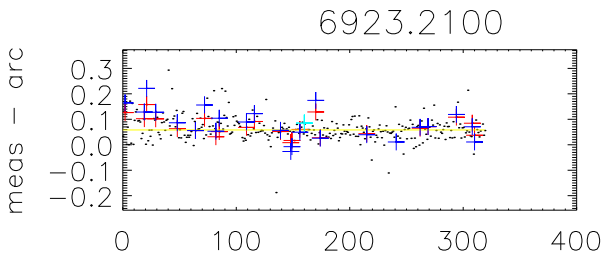

PLATE=2912 MJD=54498 Extraction chi^2 for sdR-r2-00049476.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

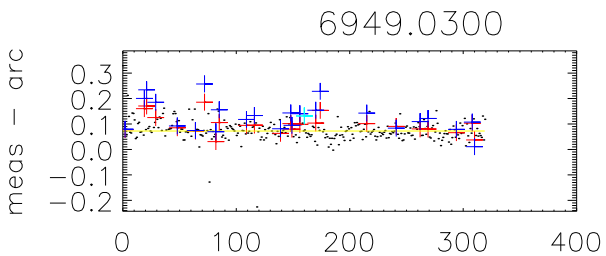

6300.3040
off: 0.10
sig: 0.004
6363.7760
off: 0.10
sig: 0.005
6553.6100
off: 0.01
sig: 0.019
6923.2100
off: 0.09
sig: 0.011
6949.0300
off: 0.13
sig: 0.010
7571.7500
off: 0.12
sig: 0.010
7794.1200
off: 0.01
sig: 0.005
7821.5100
off: 0.04
sig: 0.004
8399.1600
off: 0.07
sig: 0.004
8430.1700
off: 0.07
sig: 0.004
8885.8300
off: 0.07
sig: 0.004
8919.6100
off: 0.08
sig: 0.004

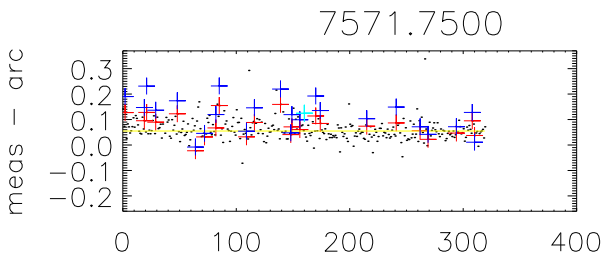

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

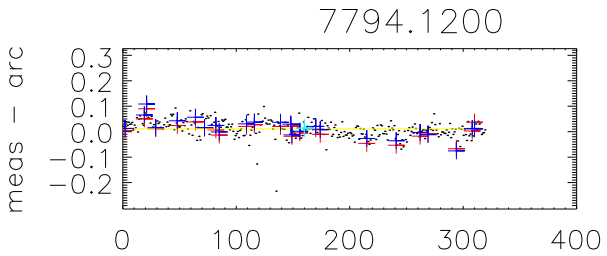

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

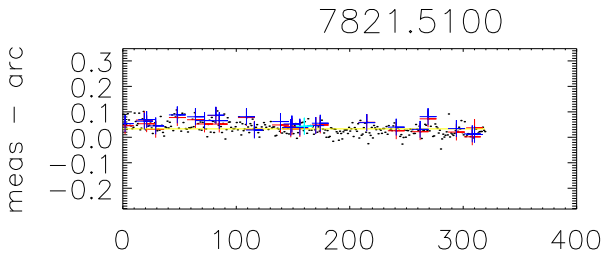

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

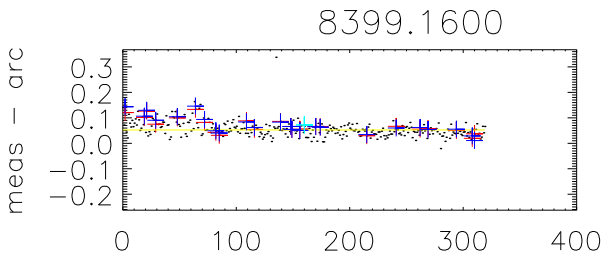

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

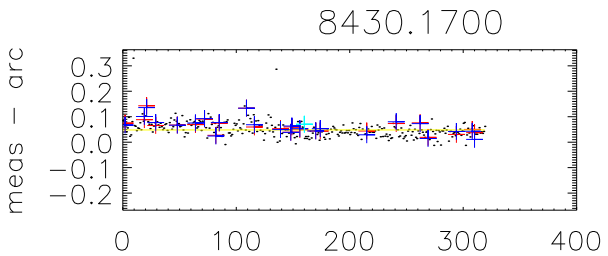

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

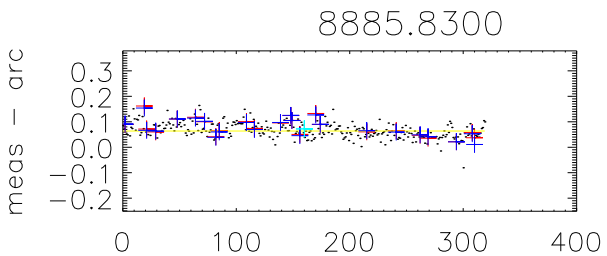

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

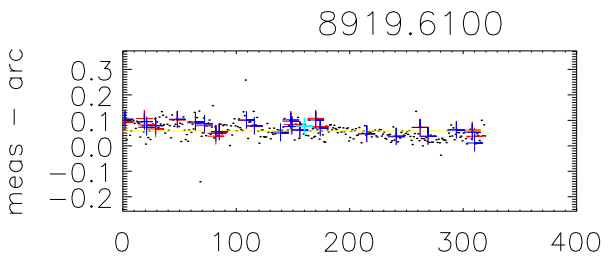

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

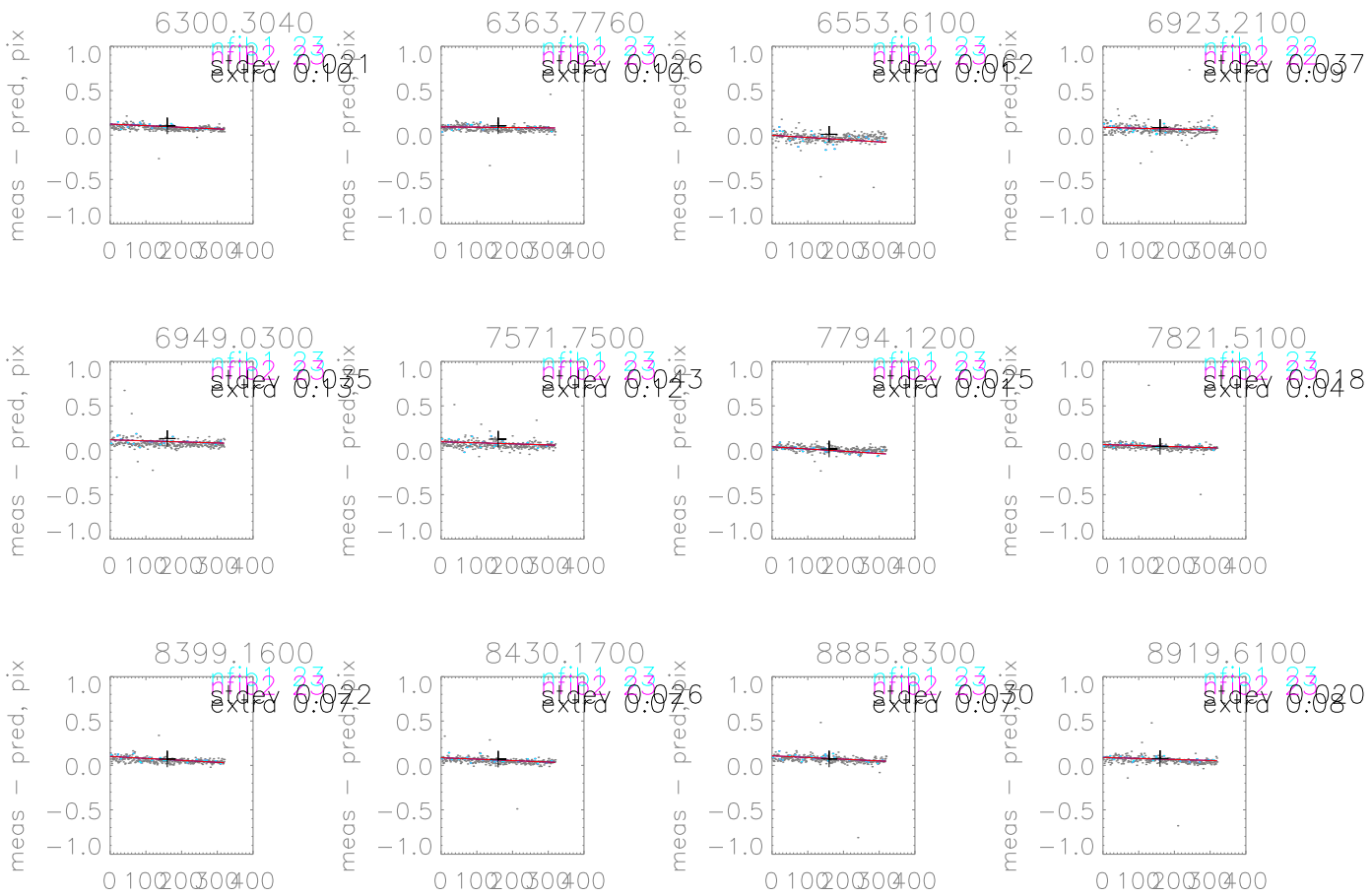

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

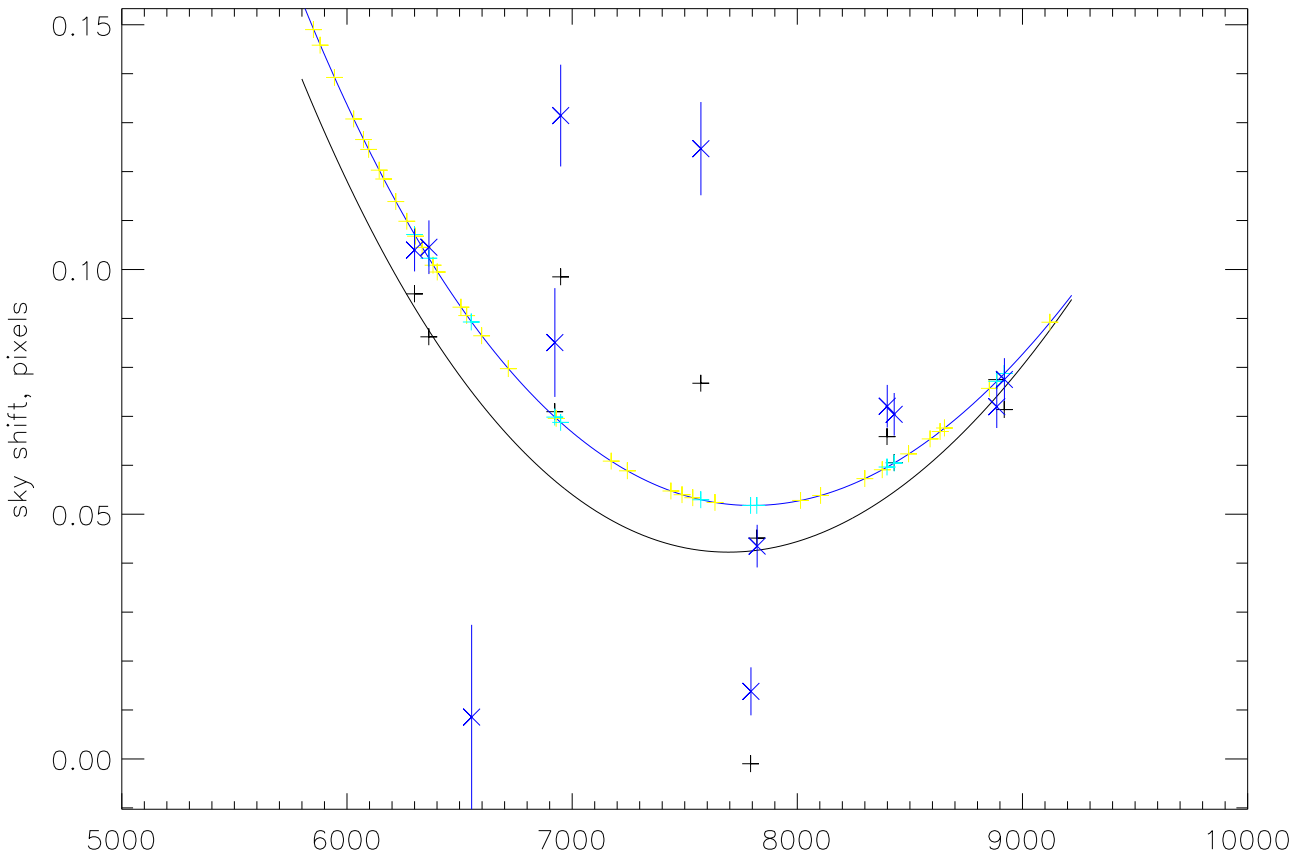

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

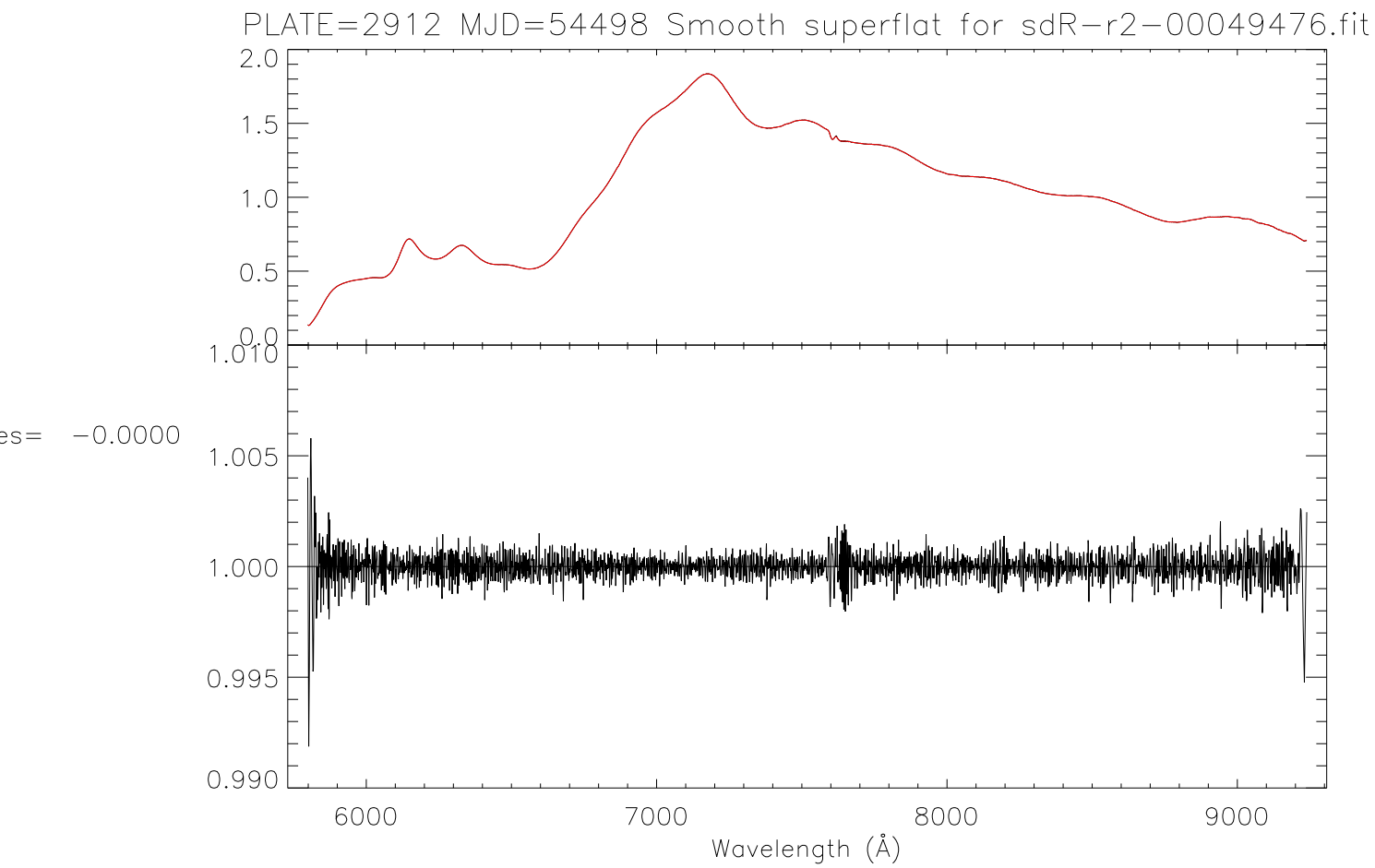

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

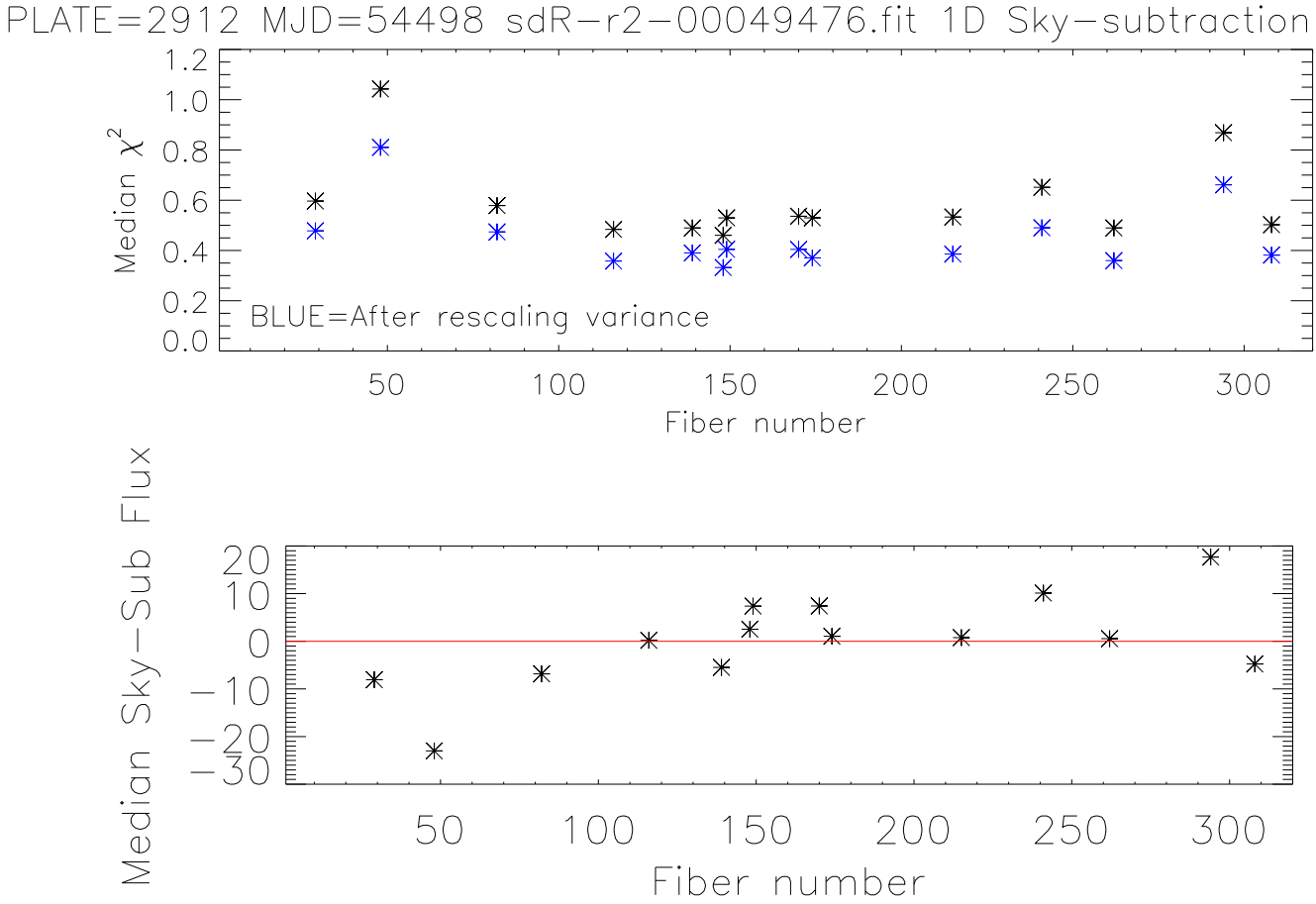

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

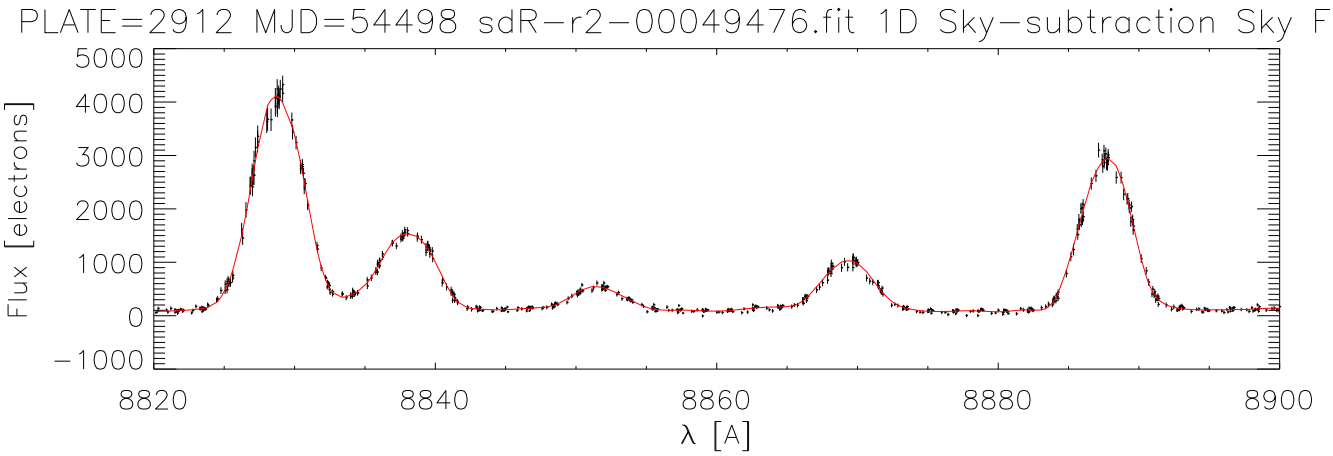

6300.3040
stdev 0.021
extra 0.16
6363.7760
stdev 0.026
extra 0.16
6553.6100
stdev 0.012
extra 0.09
6923.2100
stdev 0.037
extra 0.09
6949.0300
stdev 0.035
extra 0.13
7571.7500
stdev 0.043
extra 0.12
7794.1200
stdev 0.025
extra 0.07
7821.5100
stdev 0.018
extra 0.04
8399.1600
stdev 0.022
extra 0.07
8430.1700
stdev 0.026
extra 0.07
8885.8300
stdev 0.030
extra 0.07
8919.6100
stdev 0.020
extra 0.08
meas − pred, pix

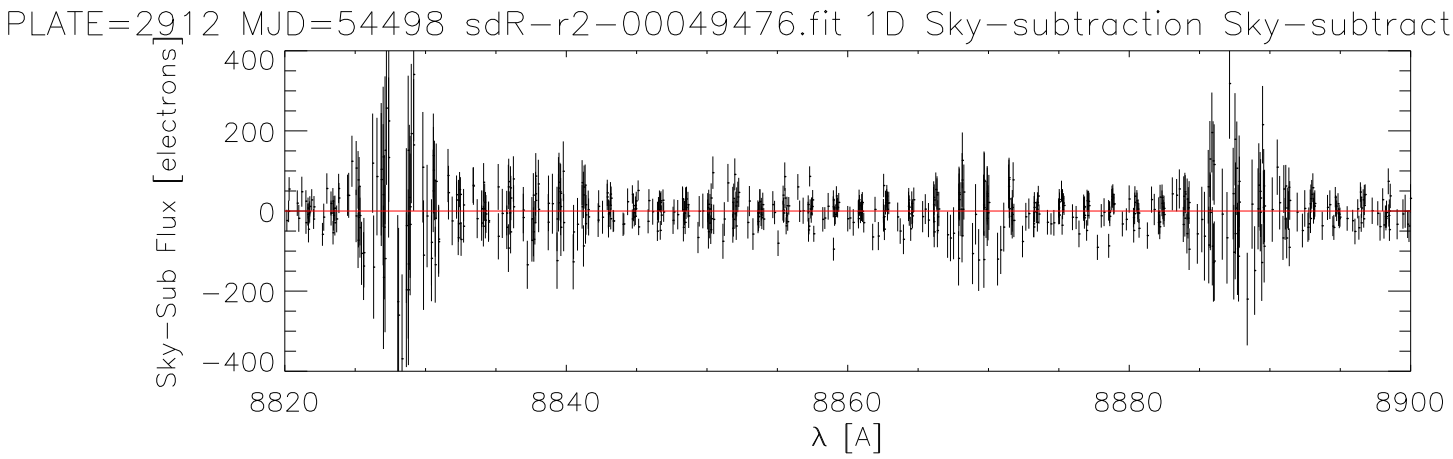

0.15
0.10
0.05
0.00
sky shift, pixels
5000
6000
7000
8000
9000
10000

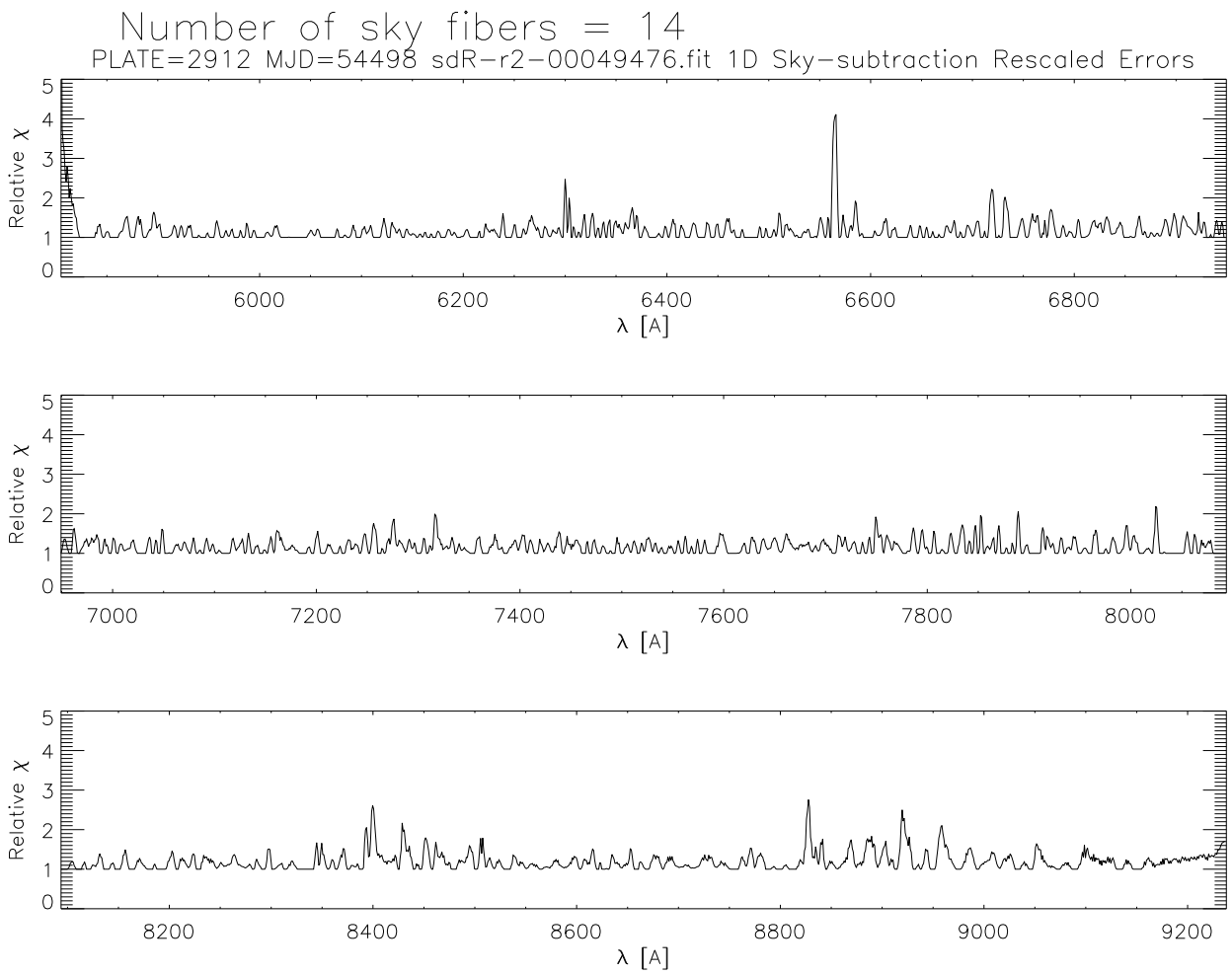

PLATE=2912 MJD=54498 Smooth superflat for sdR-r2-00049476.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

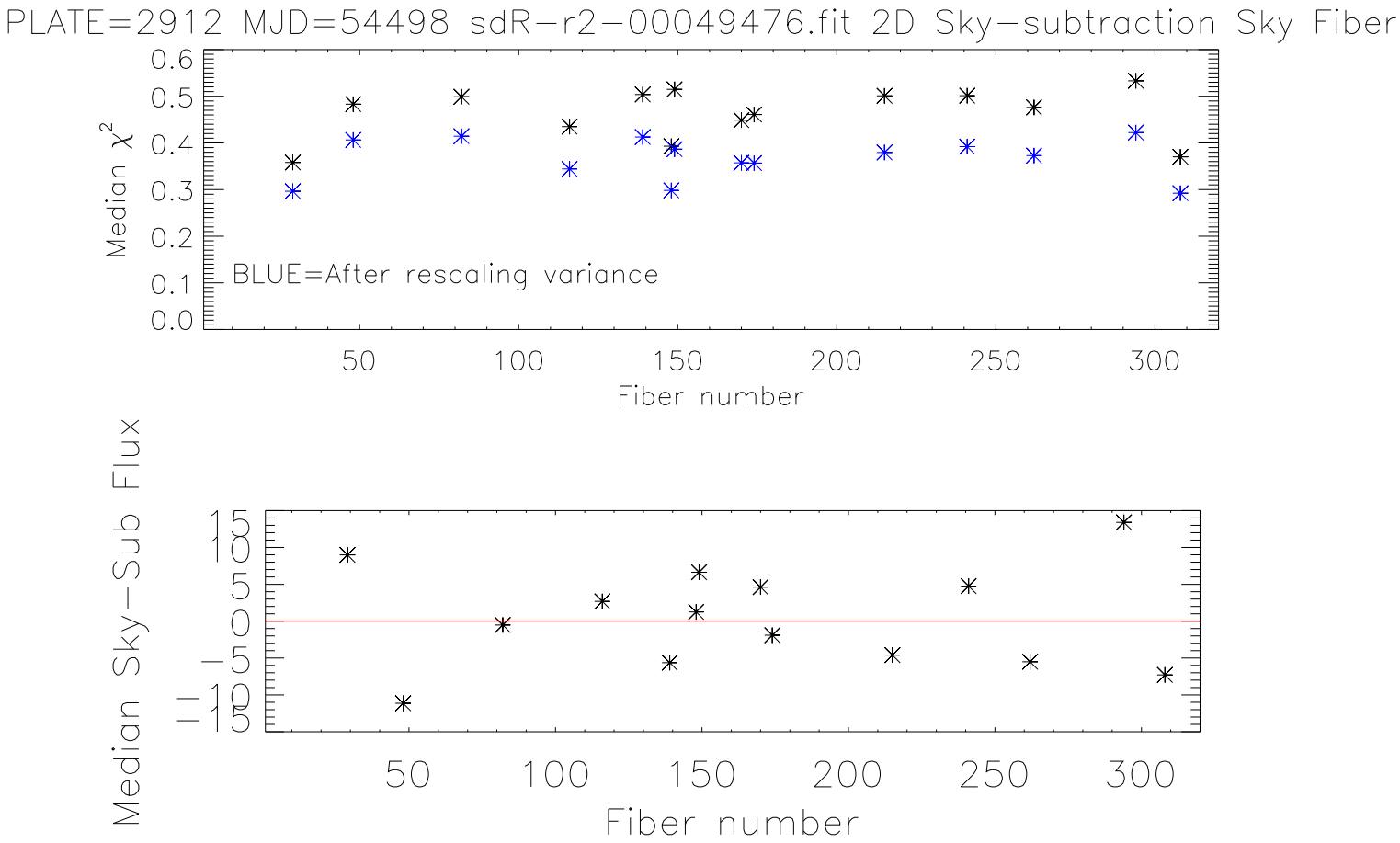
es= −0.0000

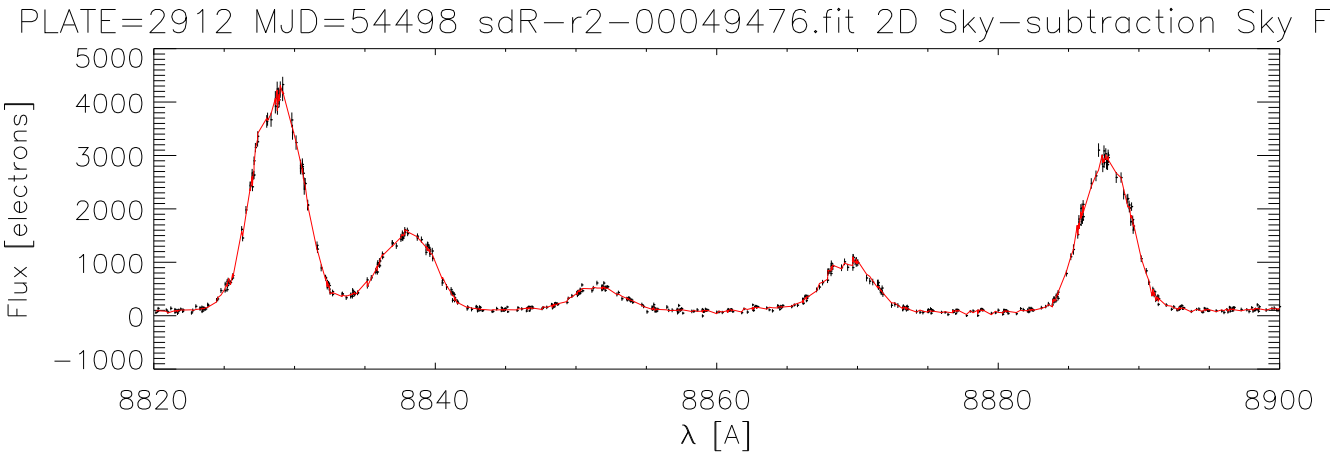

PLATE=2912 MJD=54498 sdR-r2-00049476.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

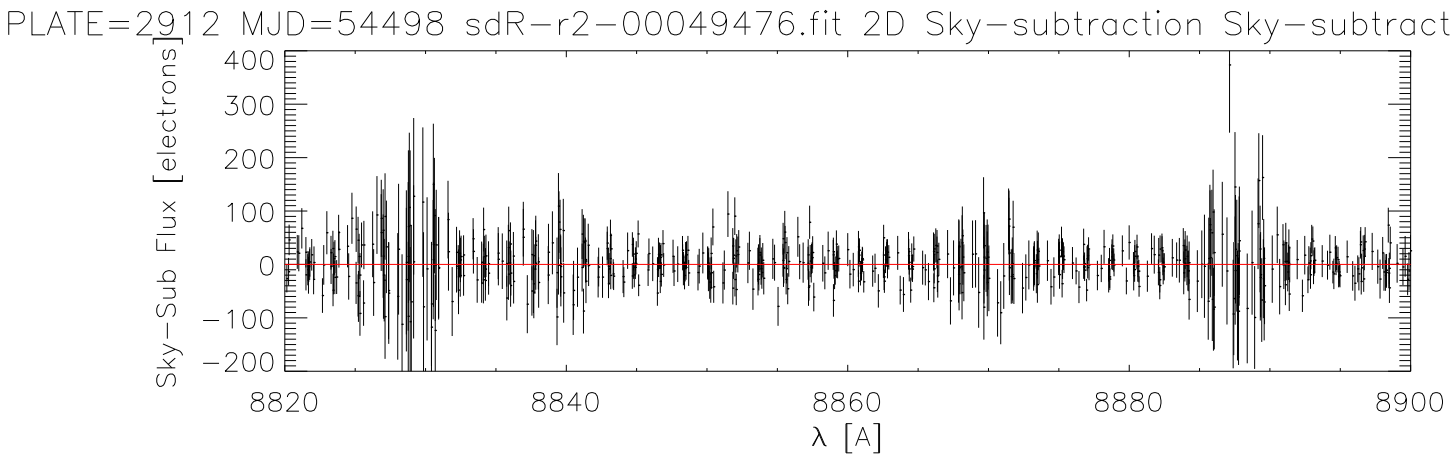

PLATE=2912 MJD=54498 sdR-r2-00049476.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

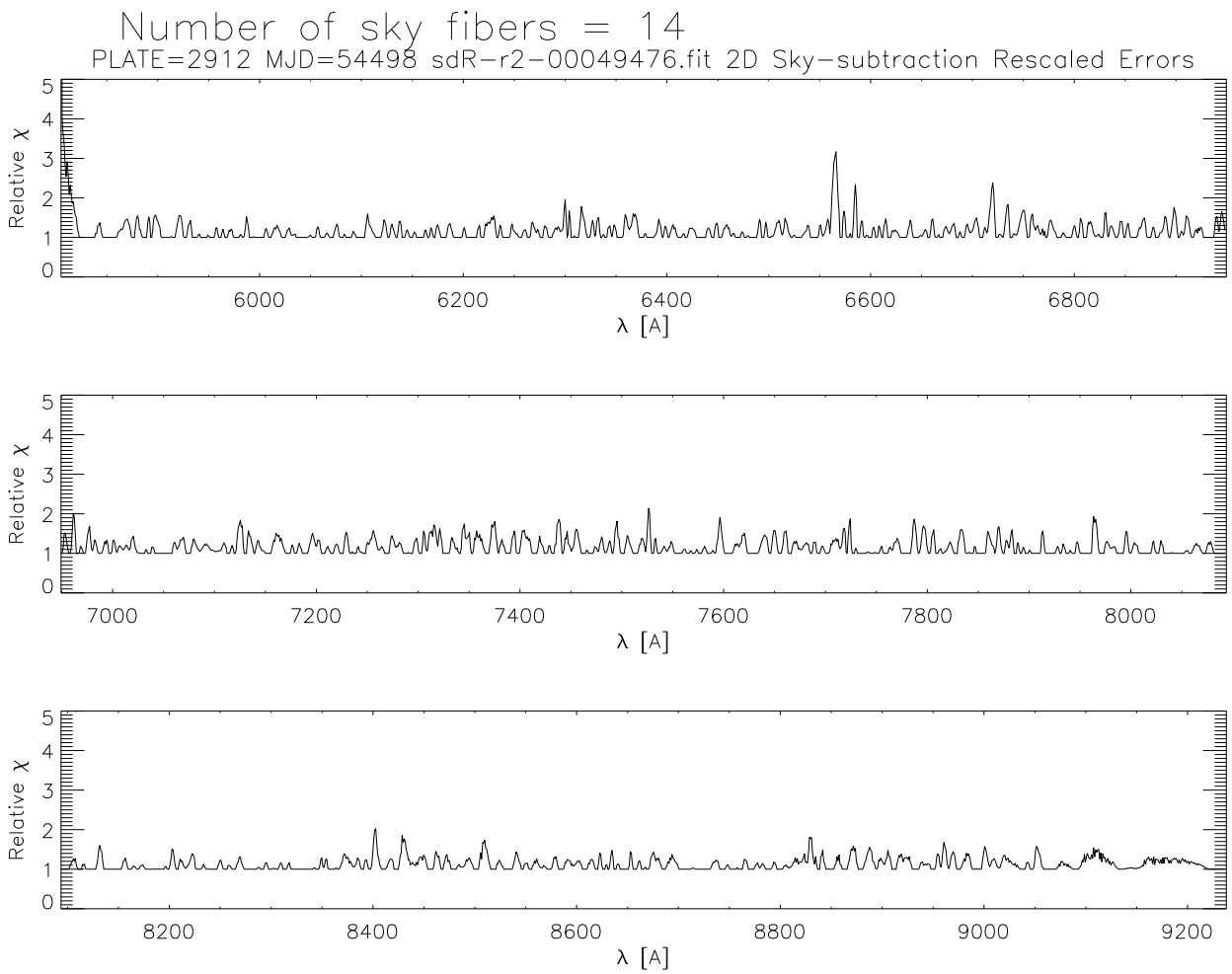

PLATE=2912 MJD=54498 sdR-r2-00049476.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

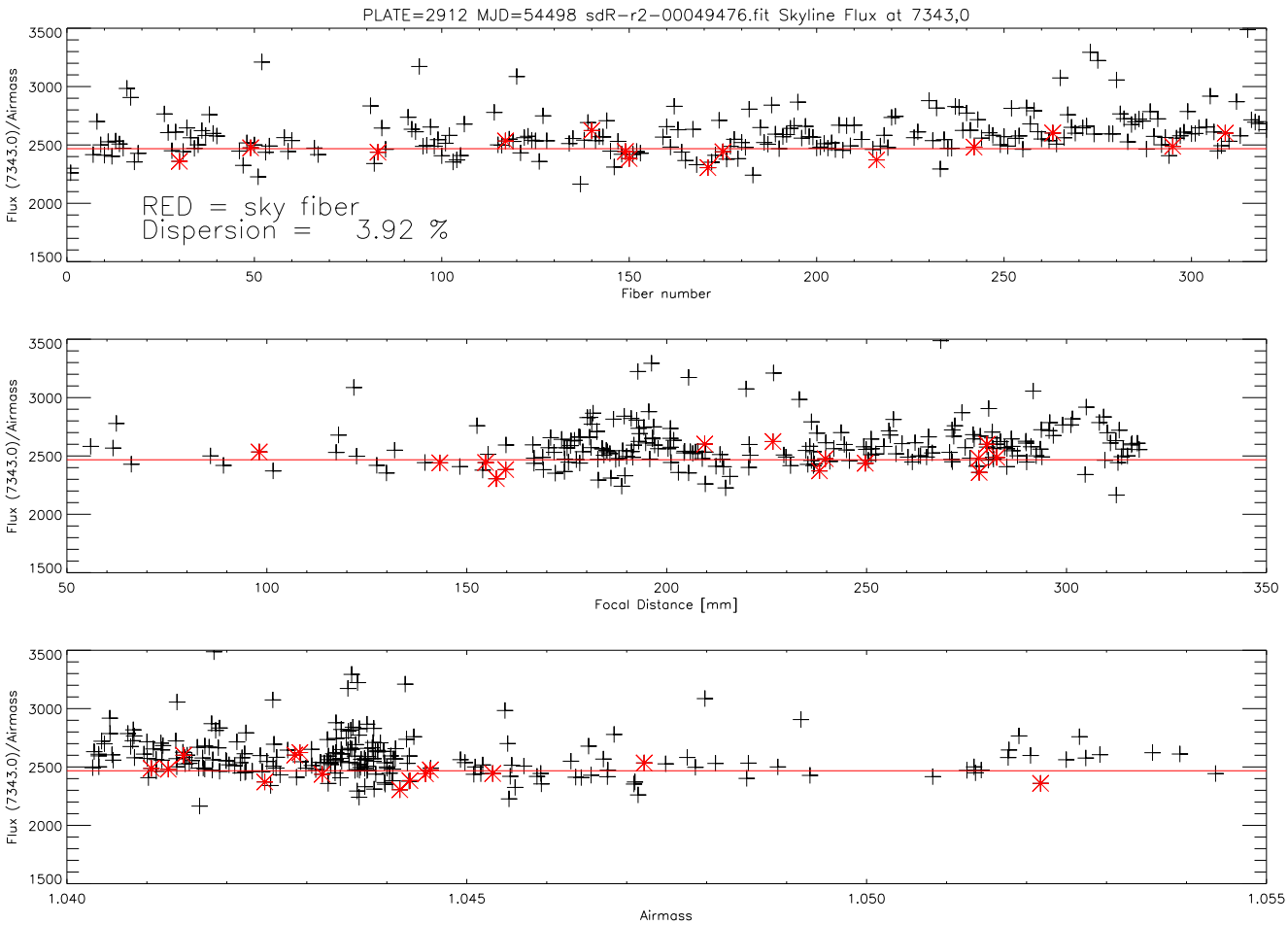

Number of sky fibers = 14
PLATE=2912 MJD=54498 sdR-r2-00049476.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

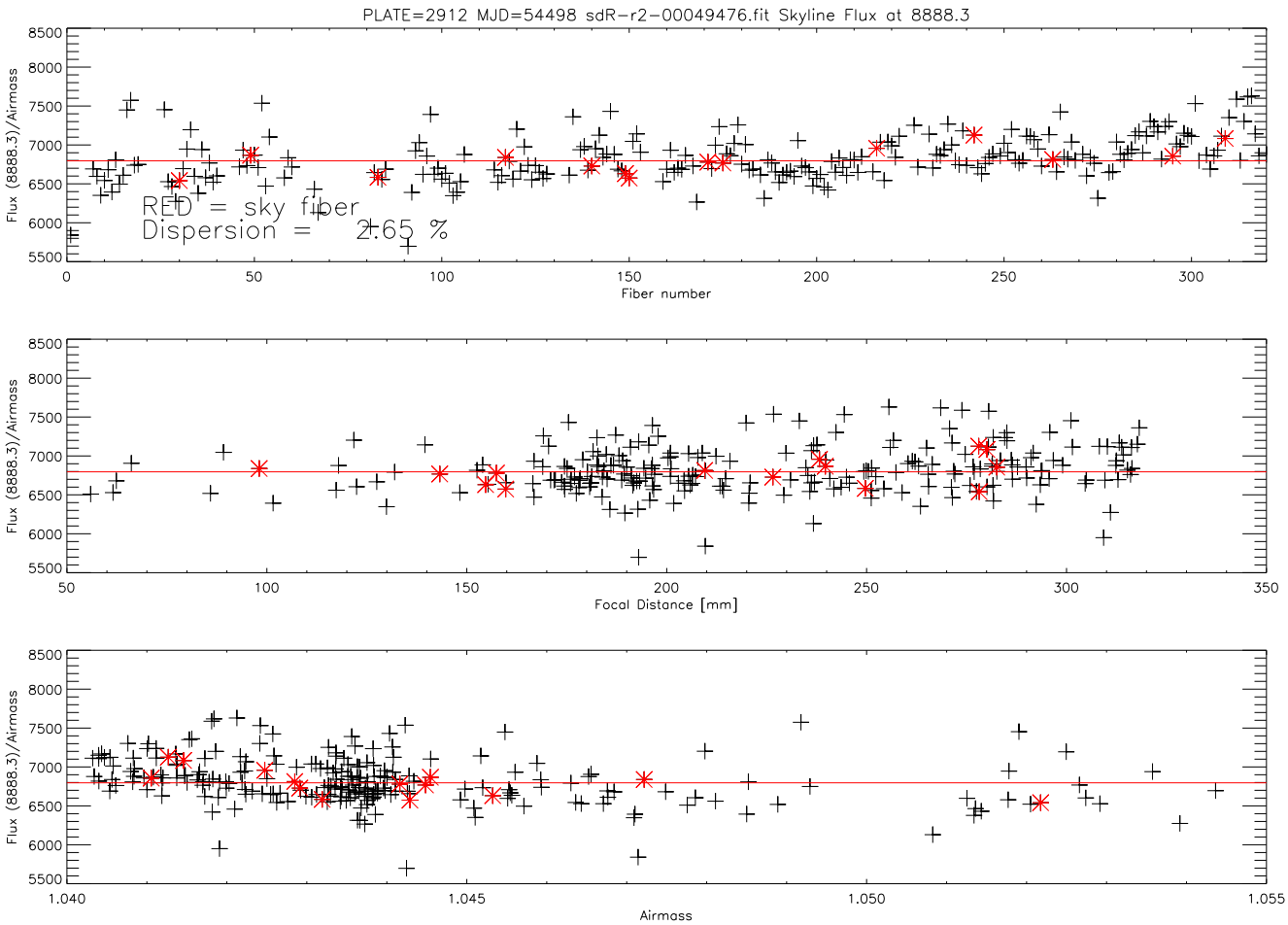

PLATE=2912 MJD=54498 sdR-r2-00049476.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=2912 MJD=54498 sdR-r2-00049476.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]


PLATE=2912 MJD=54498 sdR-r2-00049476.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 14
PLATE=2912 MJD=54498 sdR-r2-00049476.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5


PLATE=2912 MJD=54498 sdR-r2-00049476.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.92 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2912 MJD=54498 sdR-r2-00049476.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.65 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass