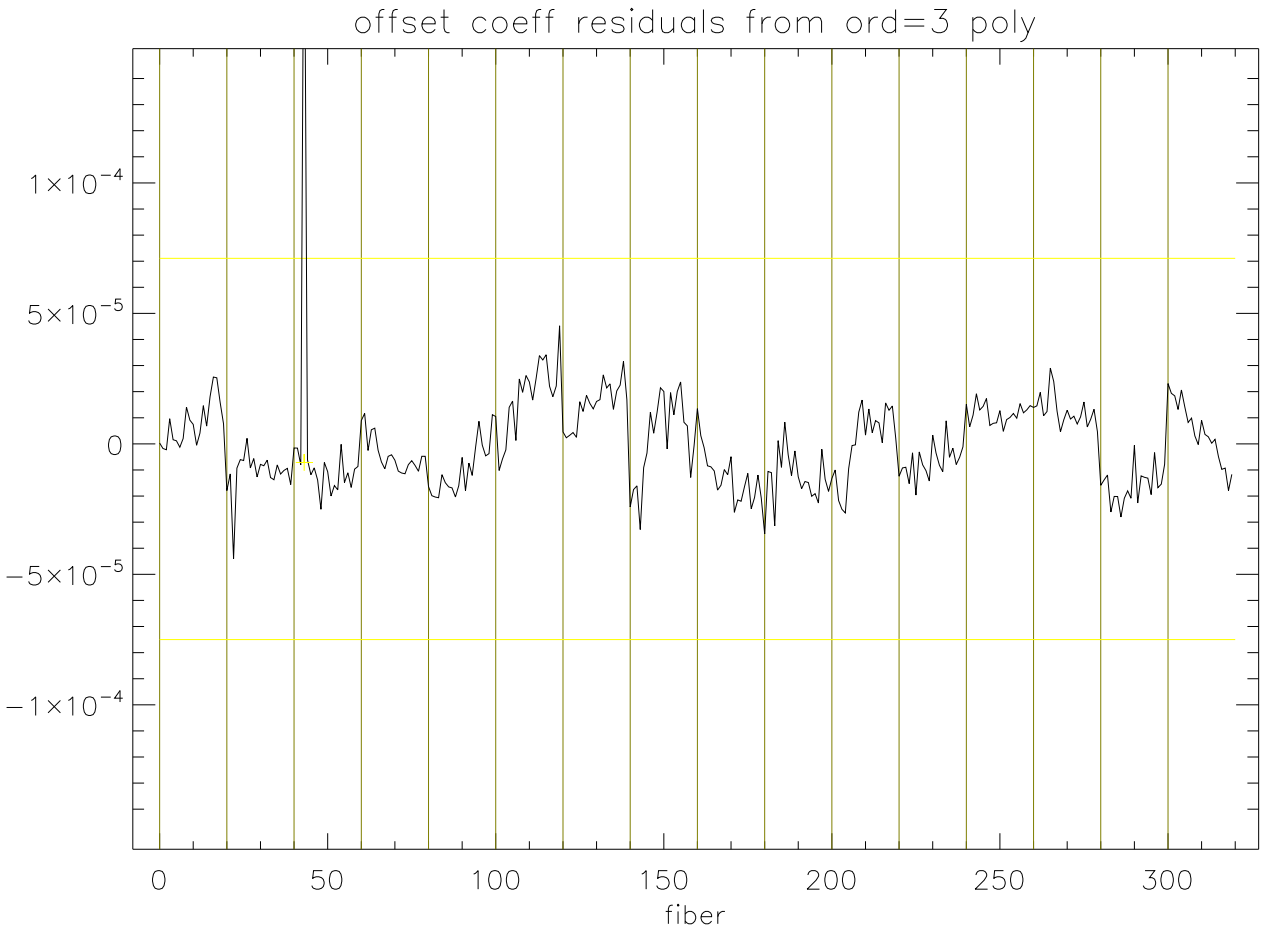
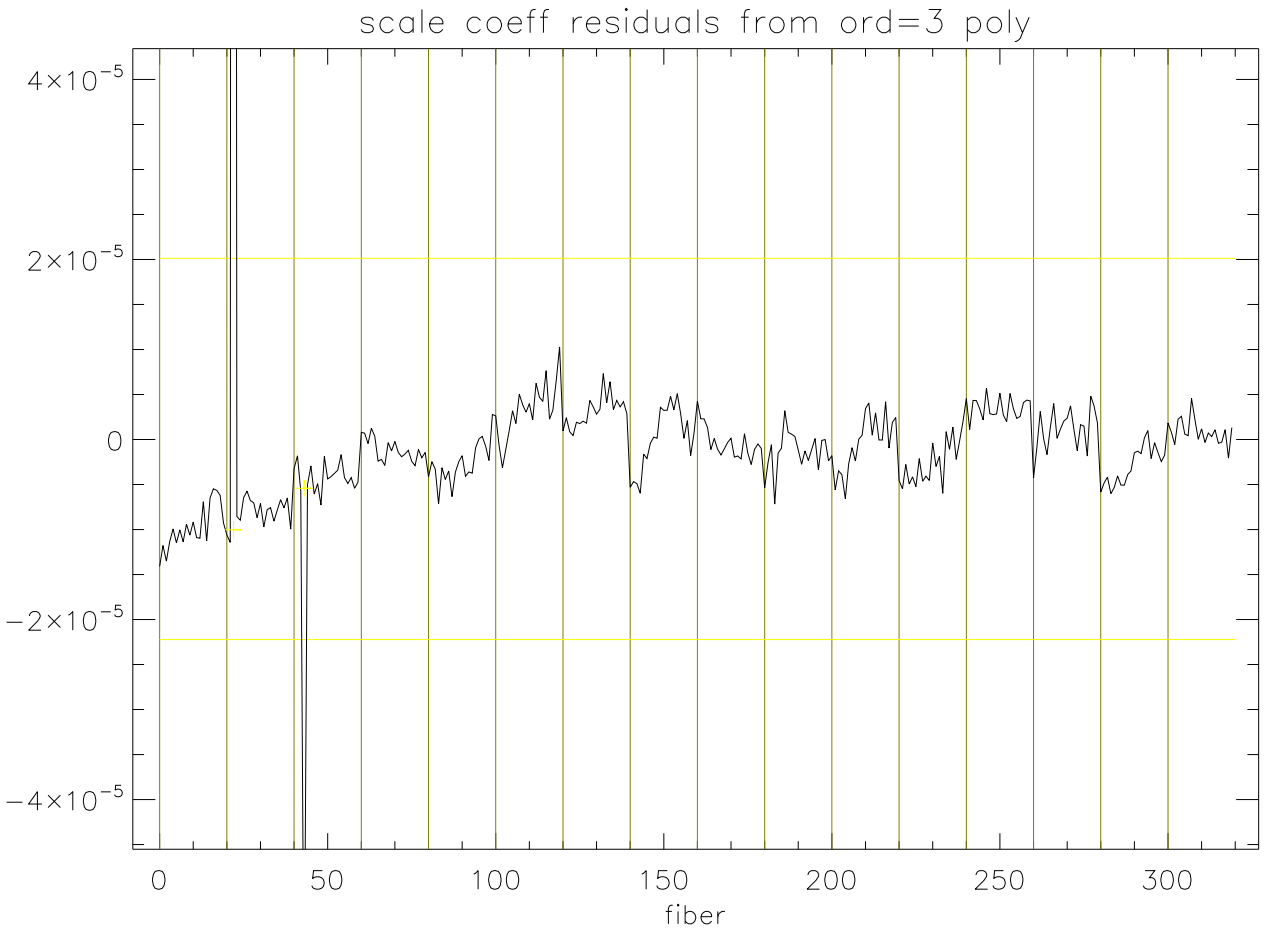
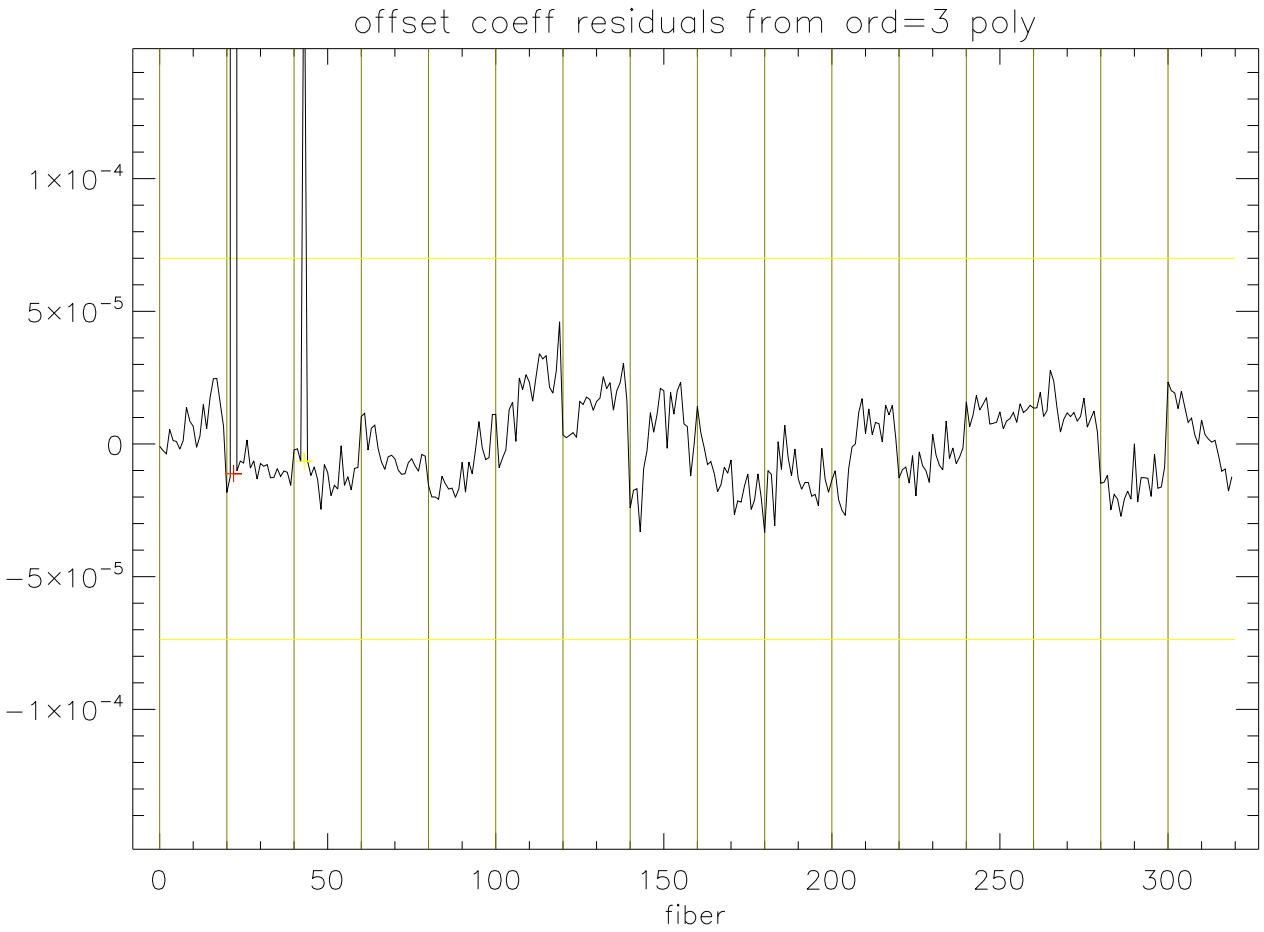
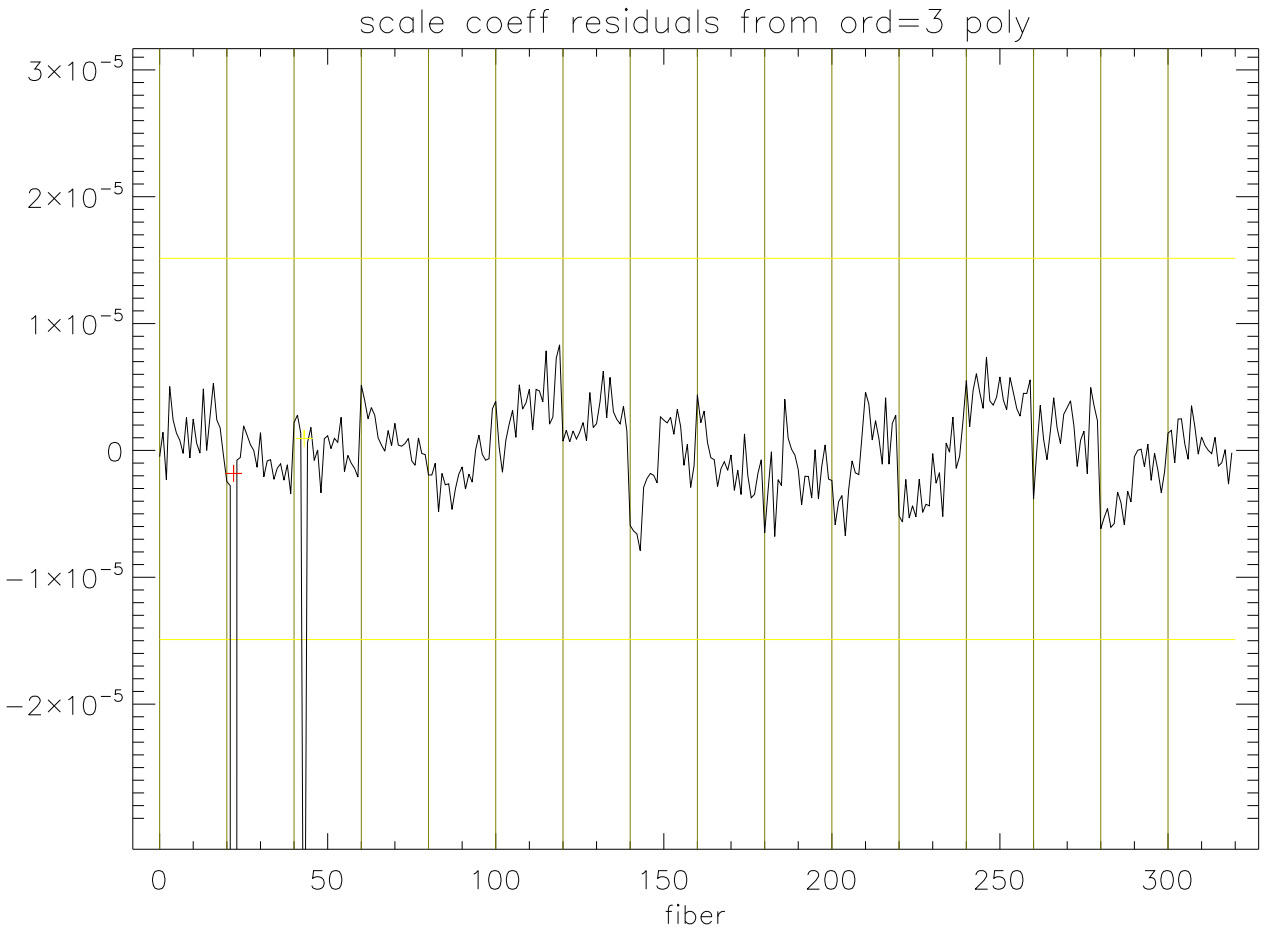
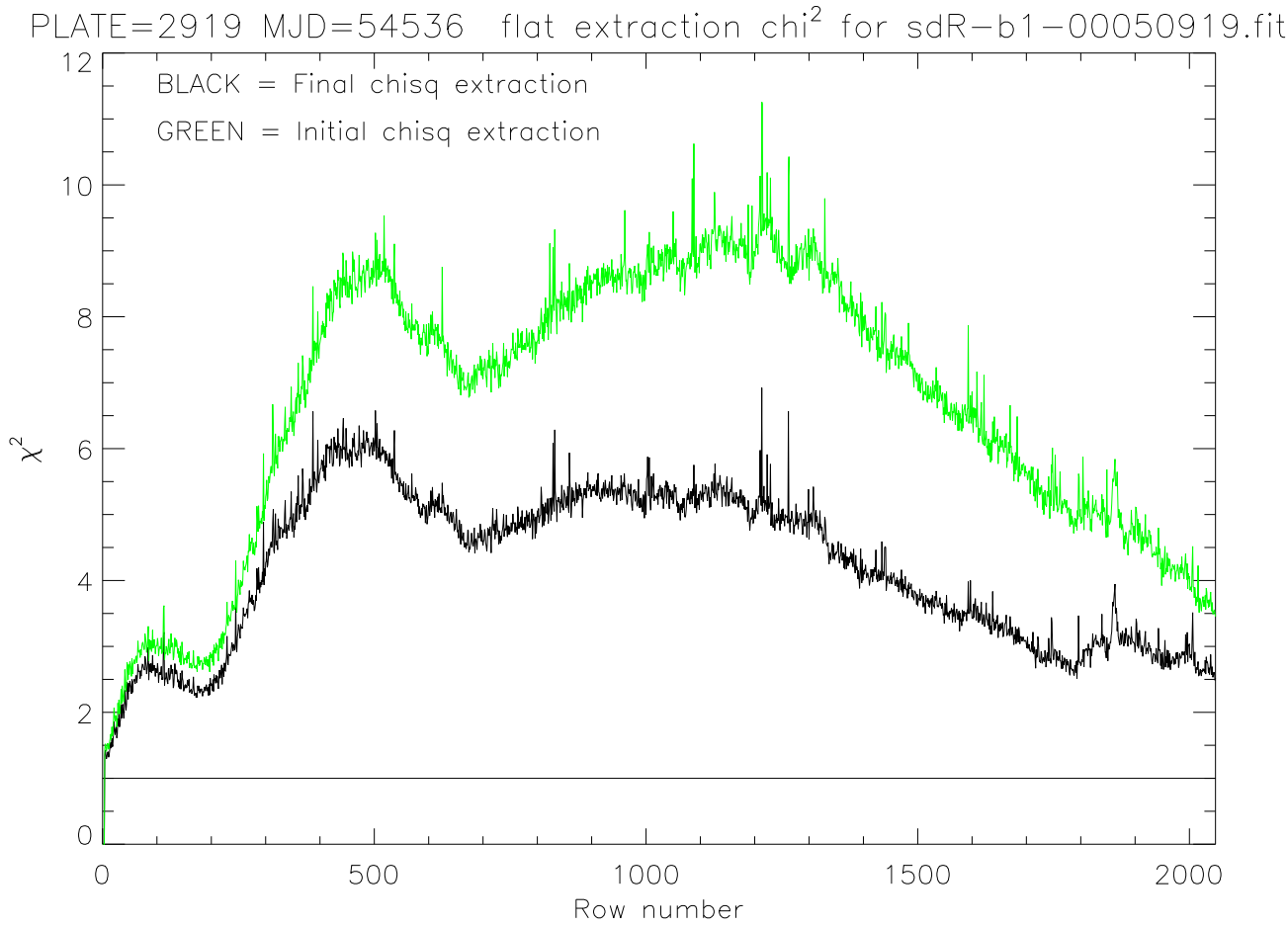
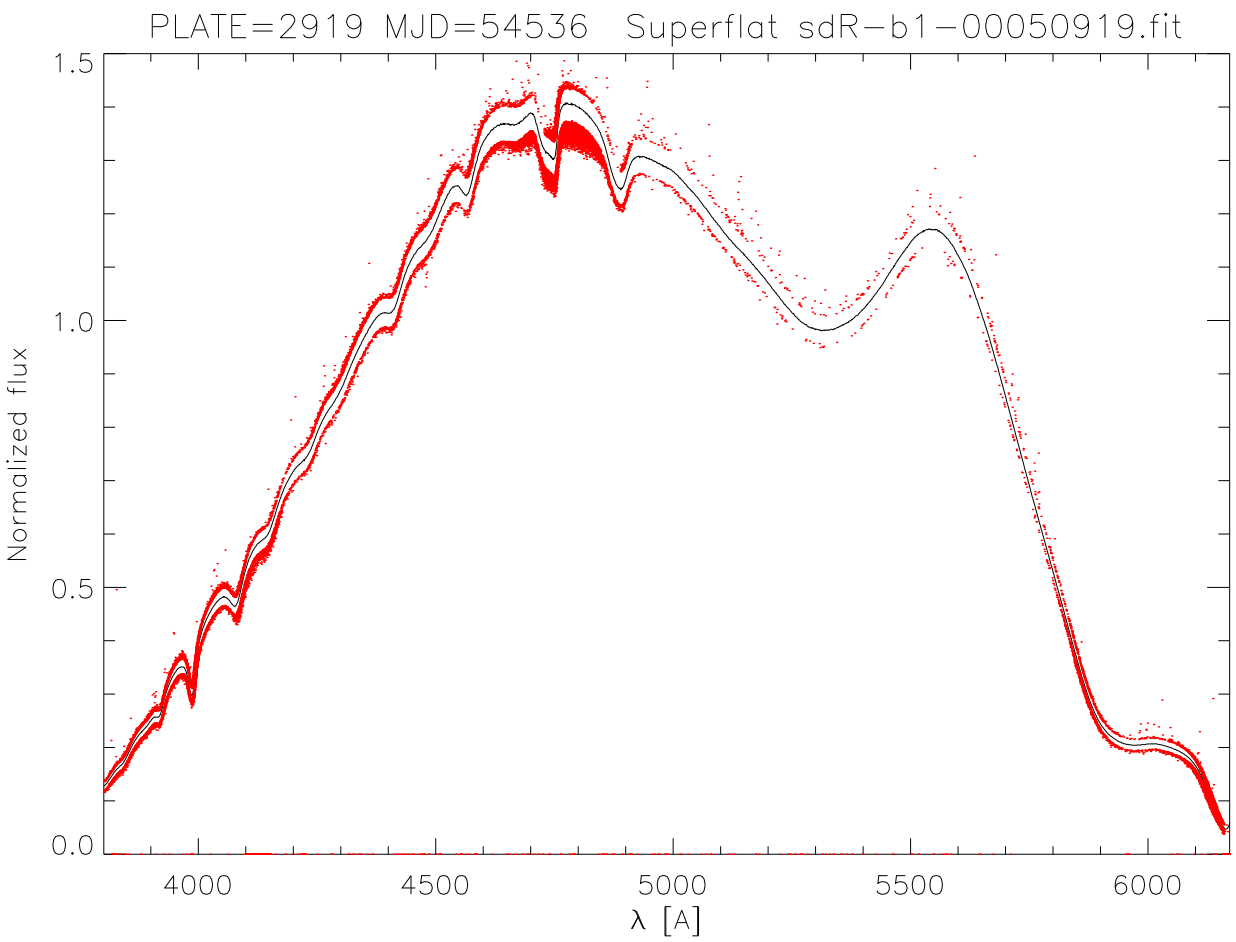

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

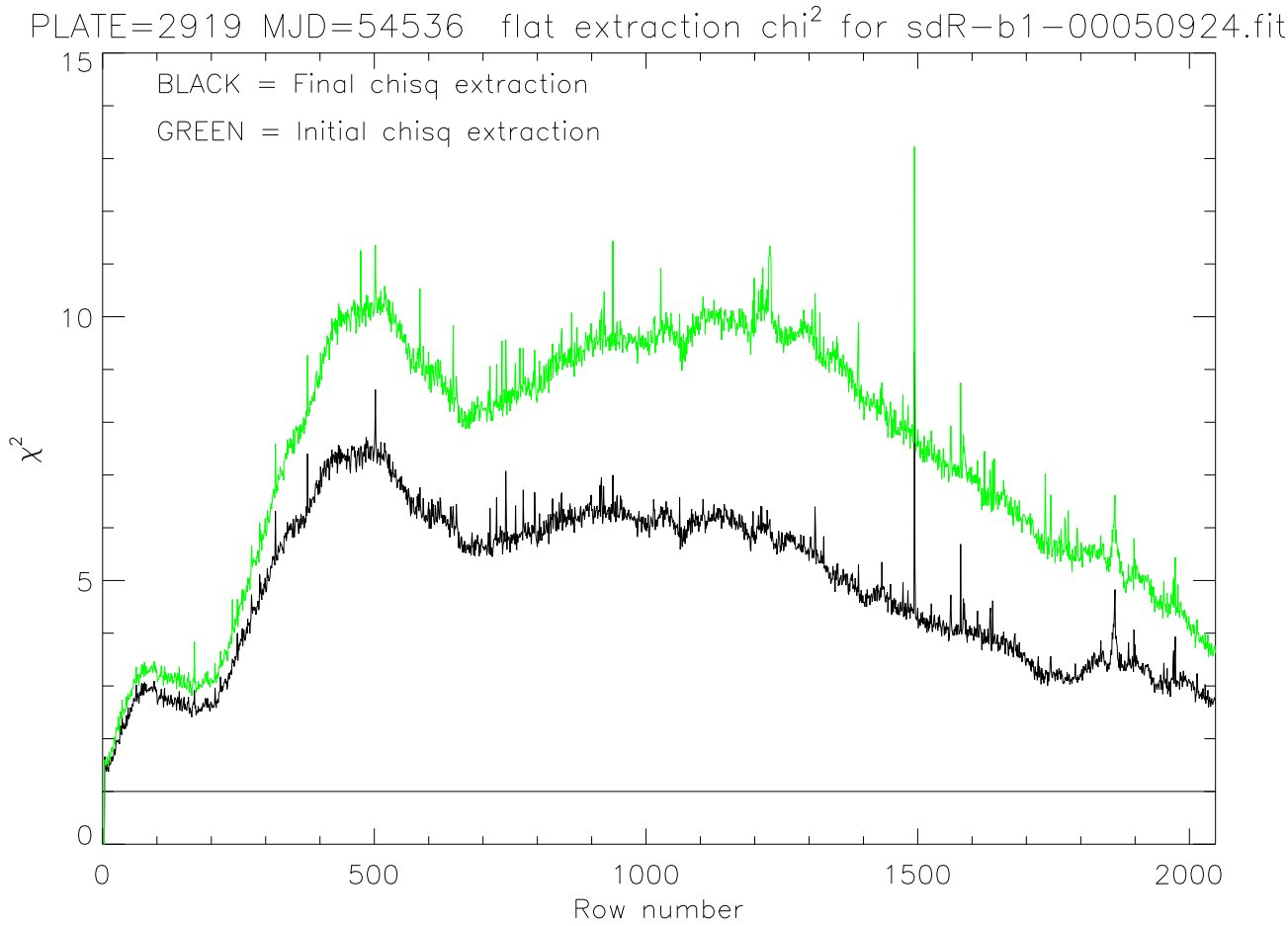

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

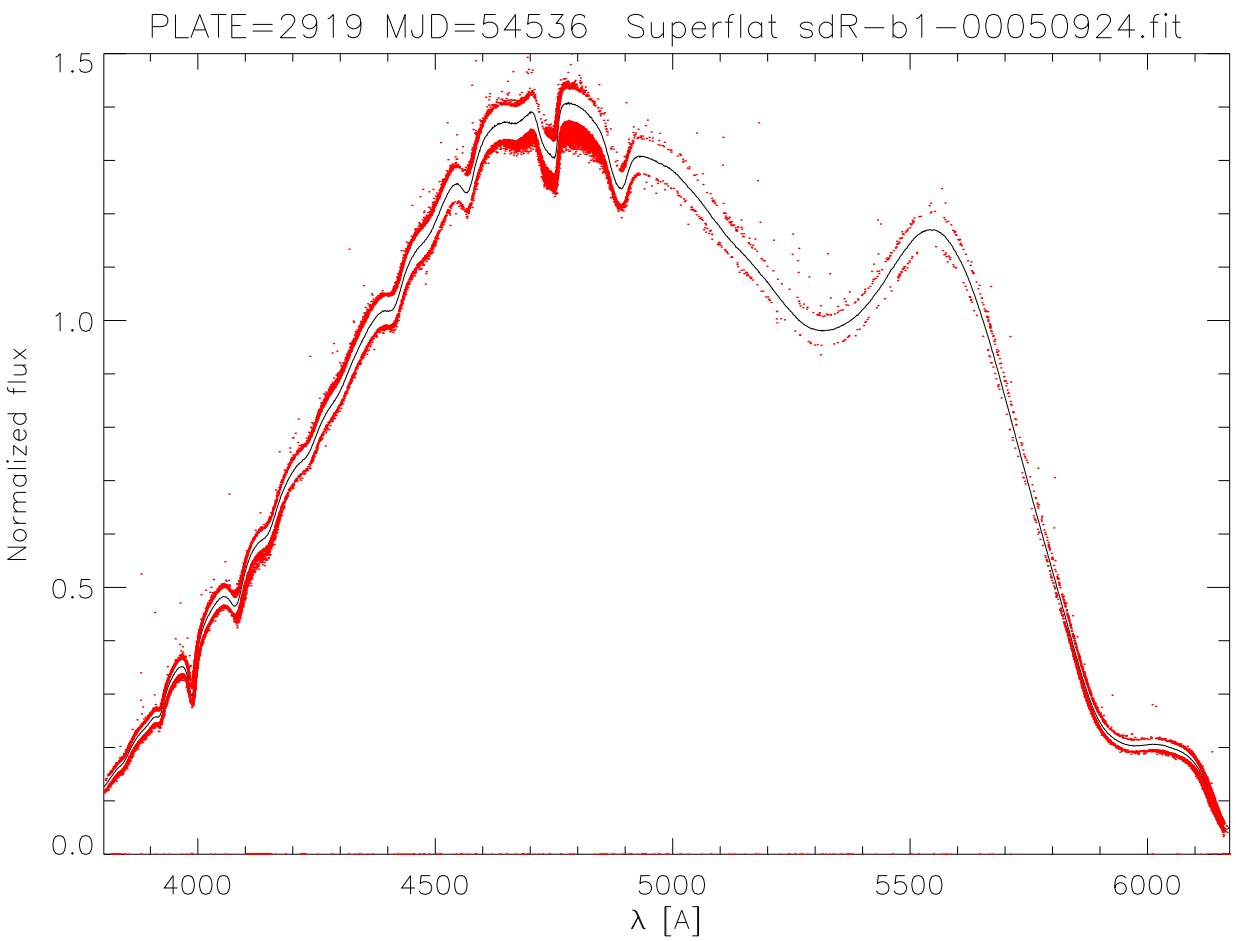

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

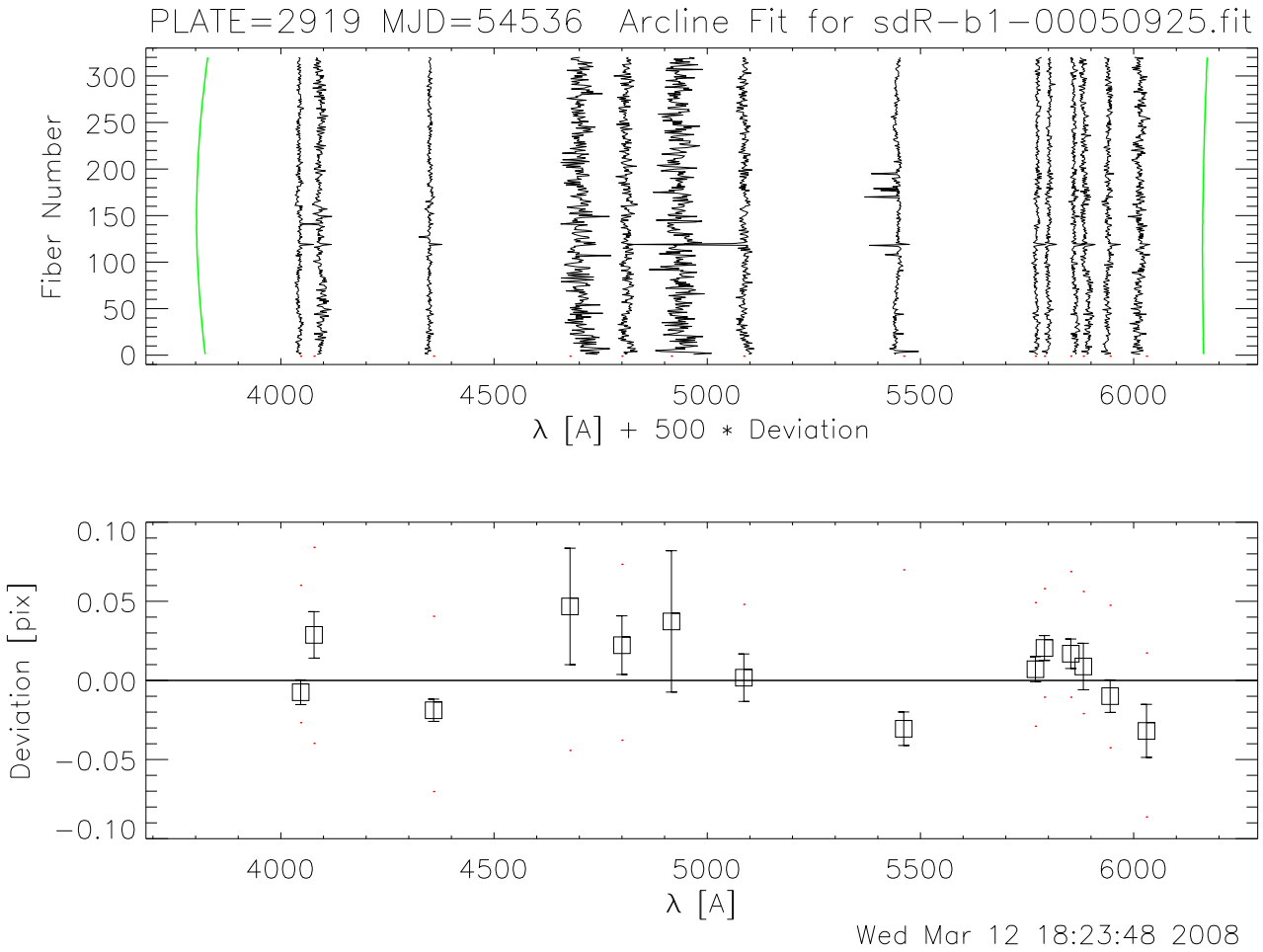

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

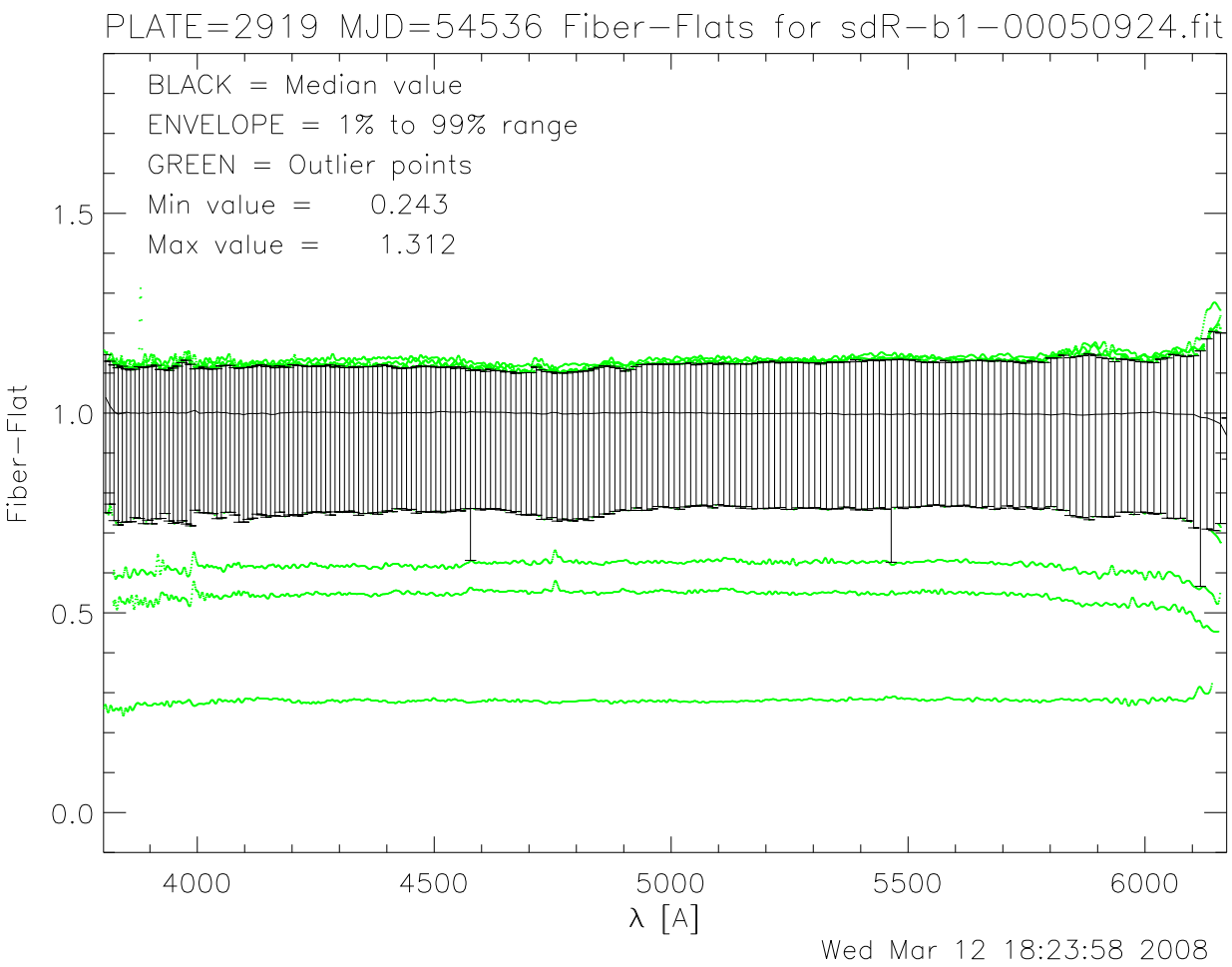

PLATE=2919 MJD=54536 flat extraction chi^2 for sdR−b1−00050919.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

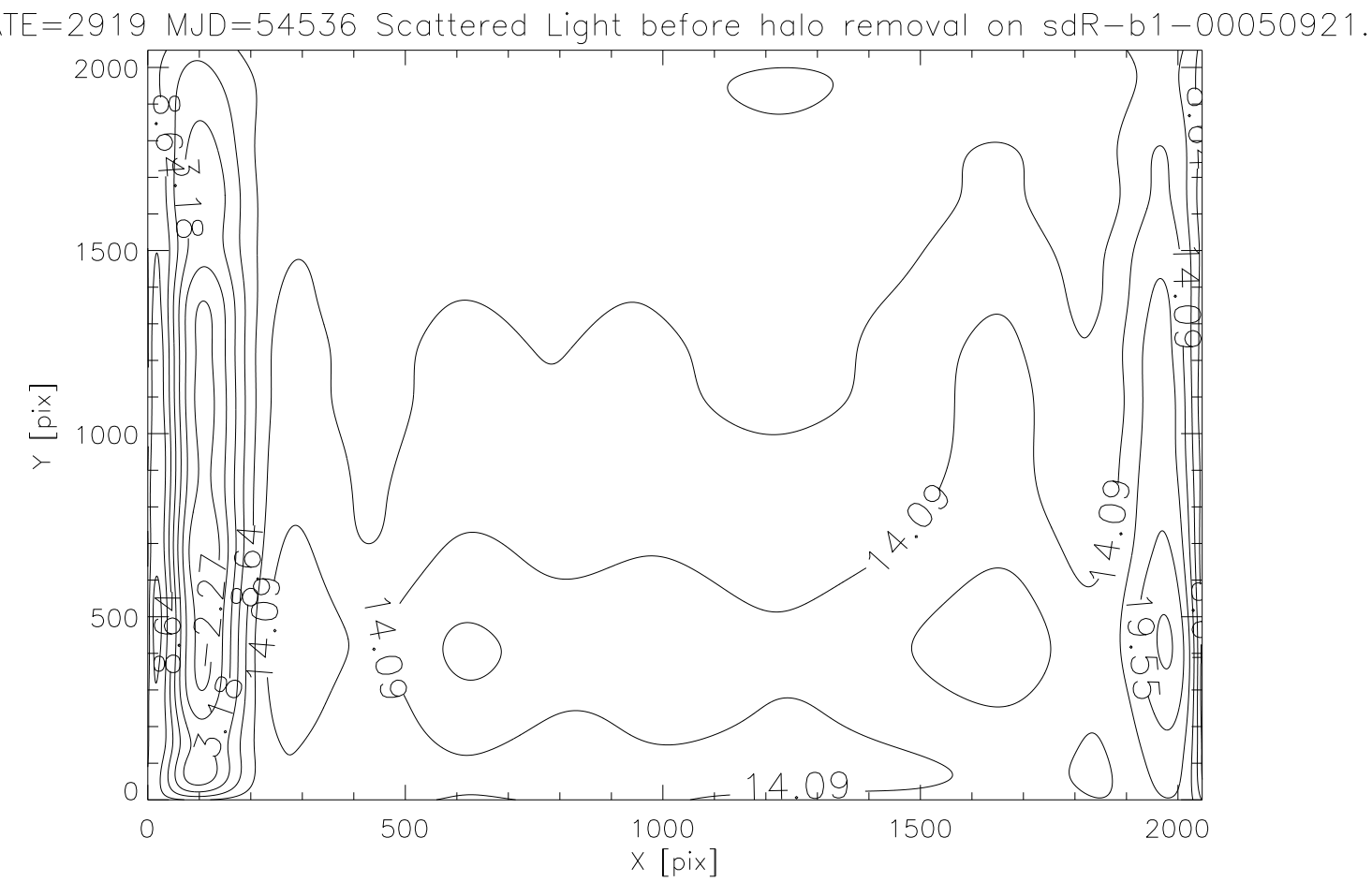

PLATE=2919 MJD=54536 Superflat sdR-b1-00050919.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

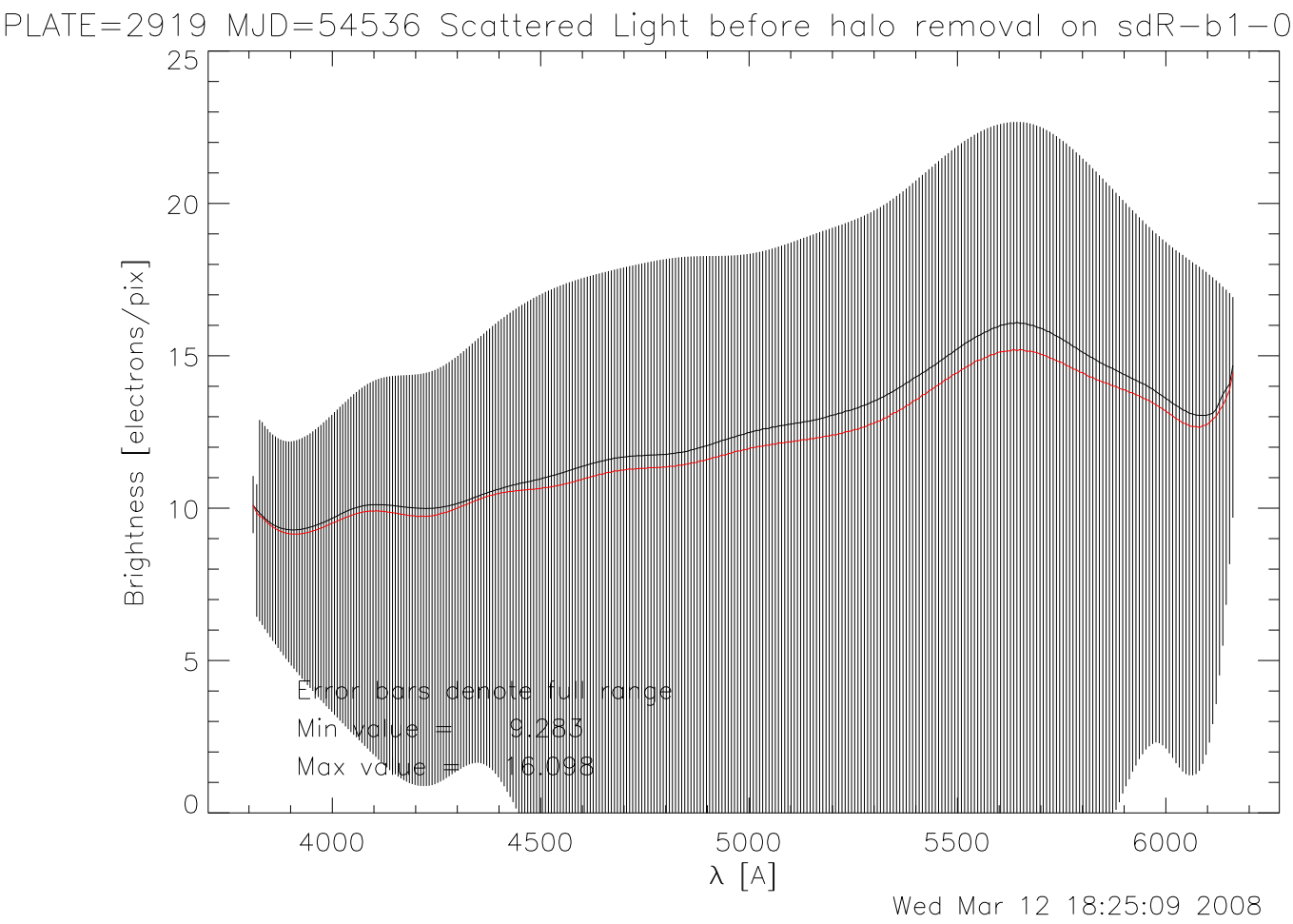

PLATE=2919 MJD=54536 flat extraction chi^2 for sdR−b1−00050924.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

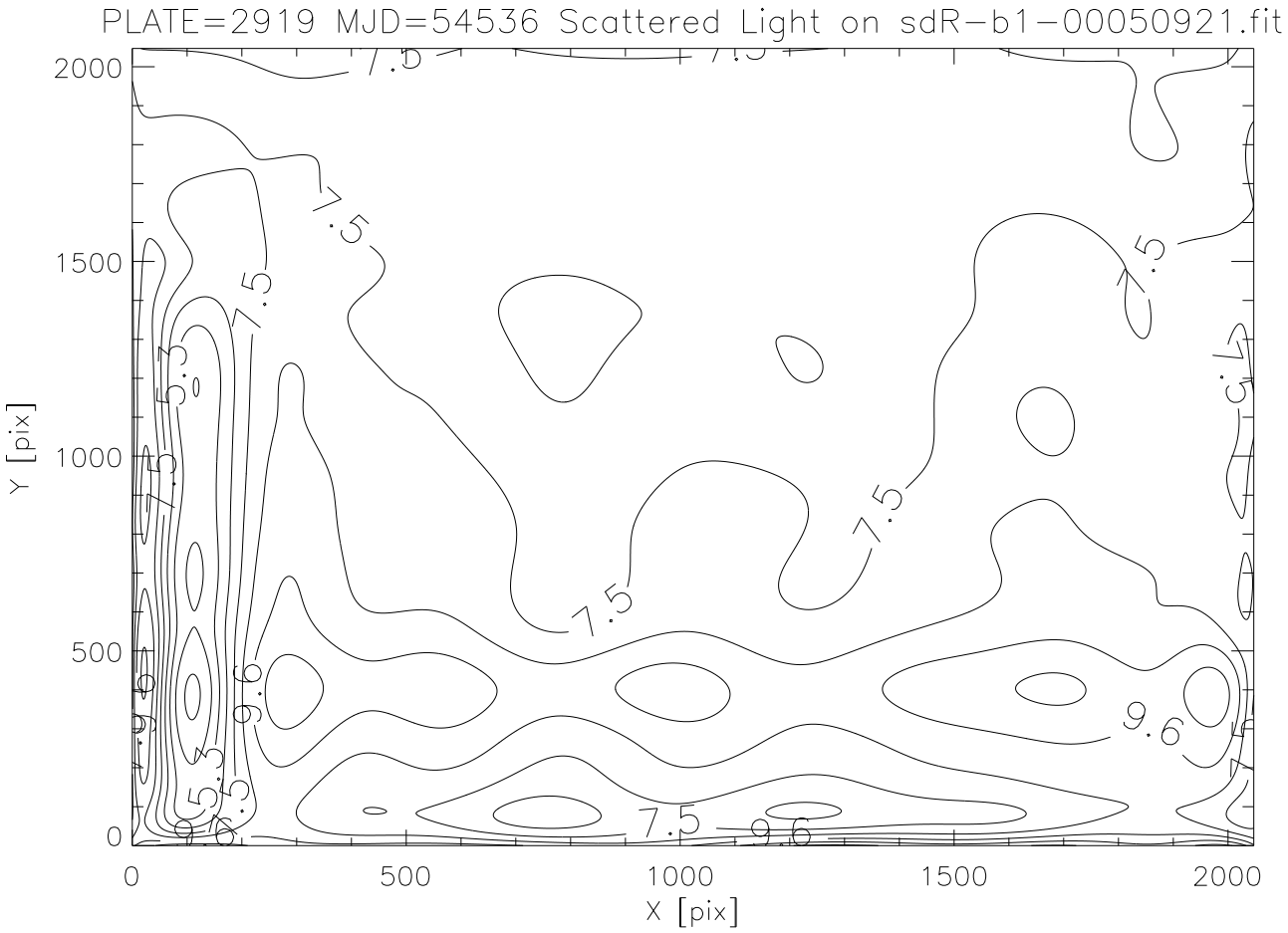

PLATE=2919 MJD=54536 Superflat sdR-b1-00050924.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

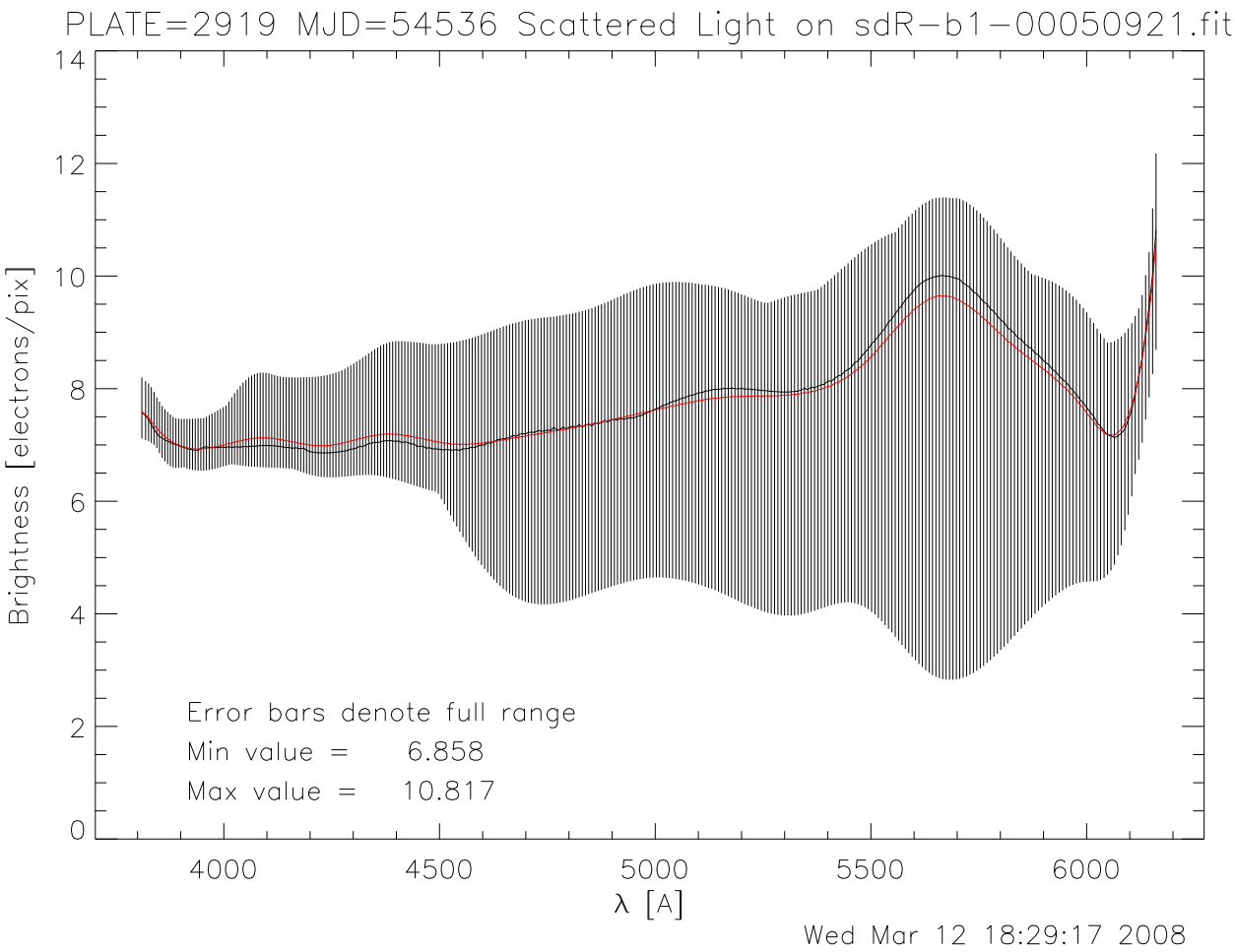

PLATE=2919 MJD=54536 Arcline Fit for sdR-b1-00050925.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:23:48 2008

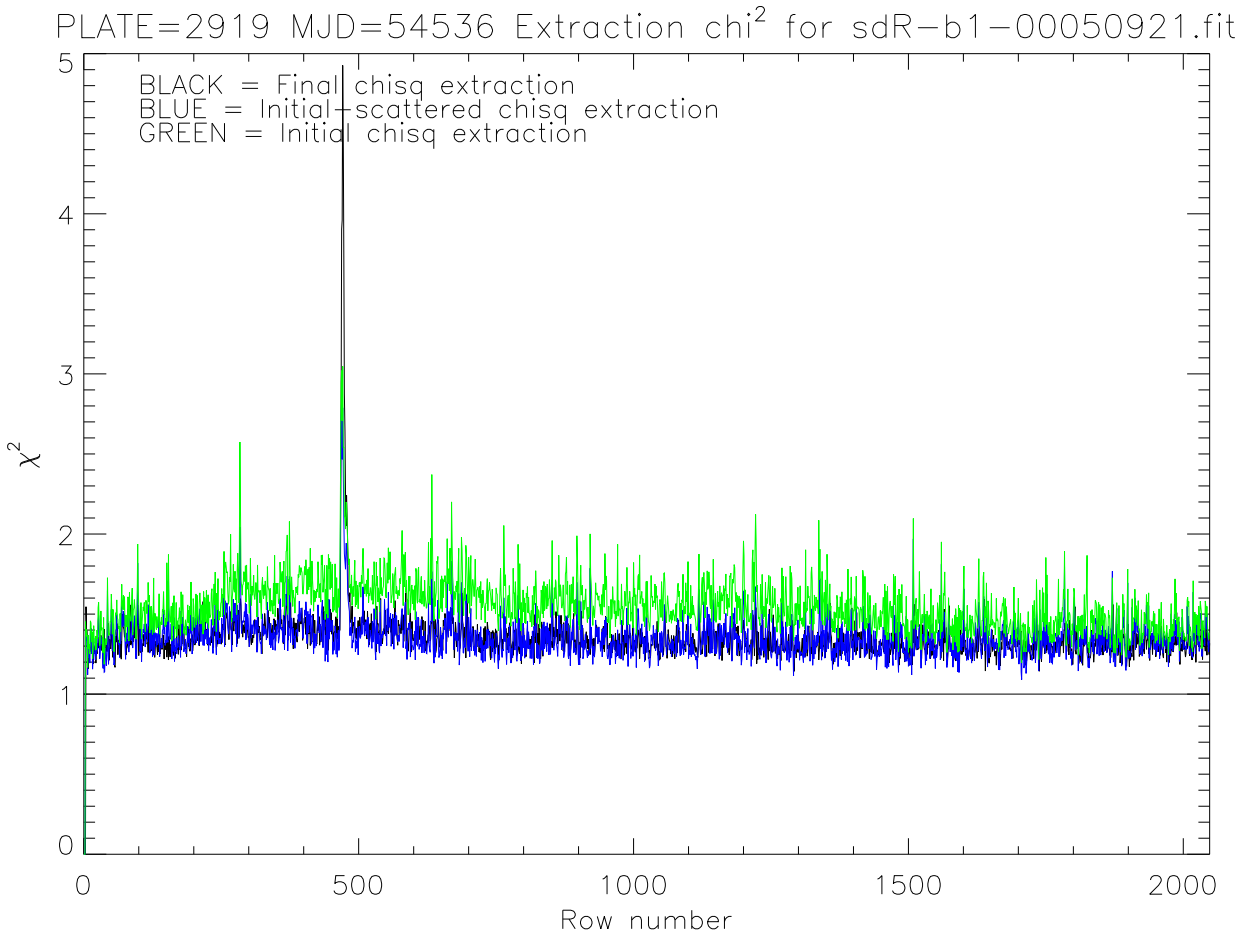

PLATE=2919 MJD=54536 Fiber−Flats for sdR−b1−00050924.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.243
Max value = 1.312
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:23:58 2008

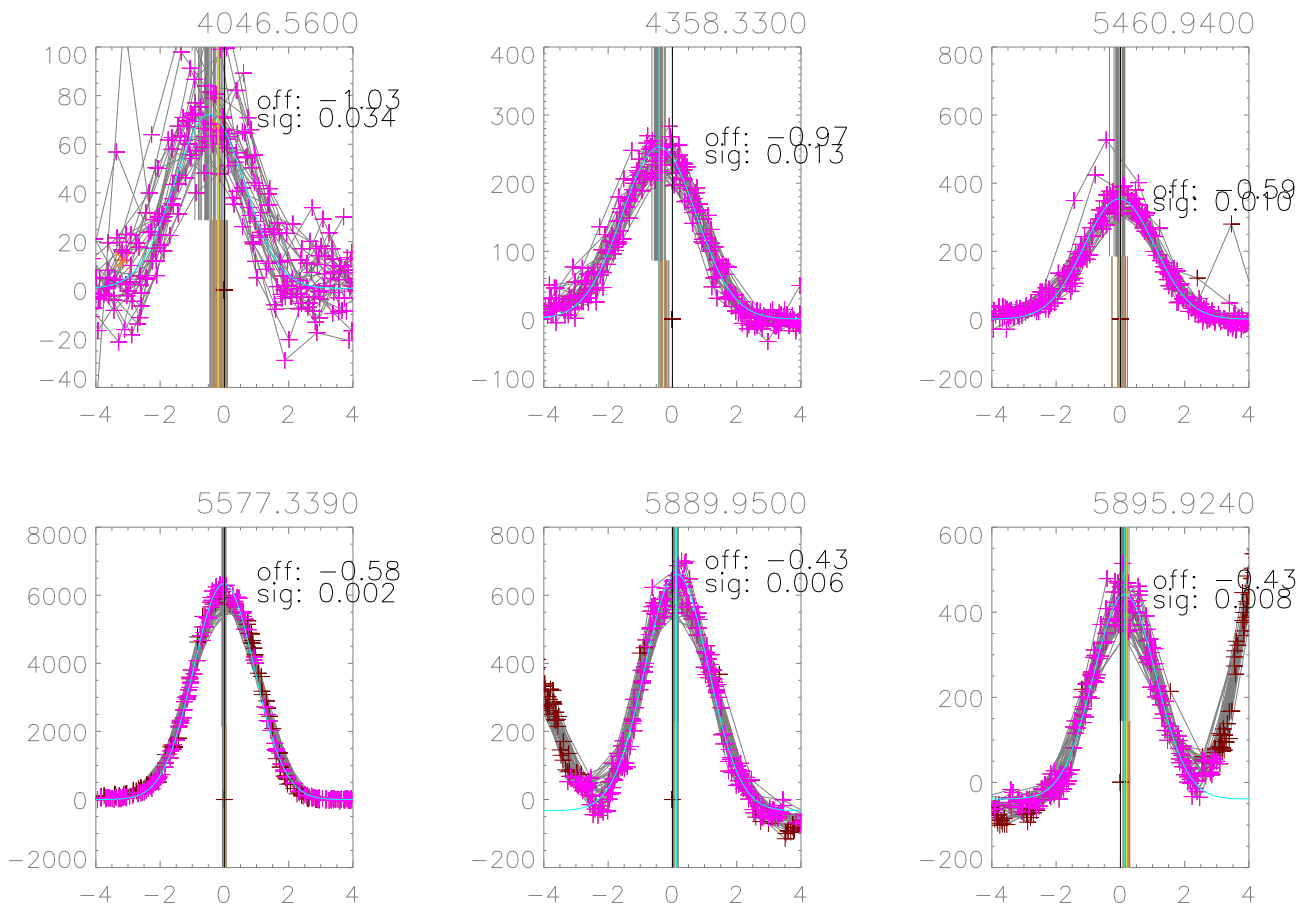

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR−b1−00050921.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
-8.64
-3.18
-2.27
3.18
8.64
14.09
19.55

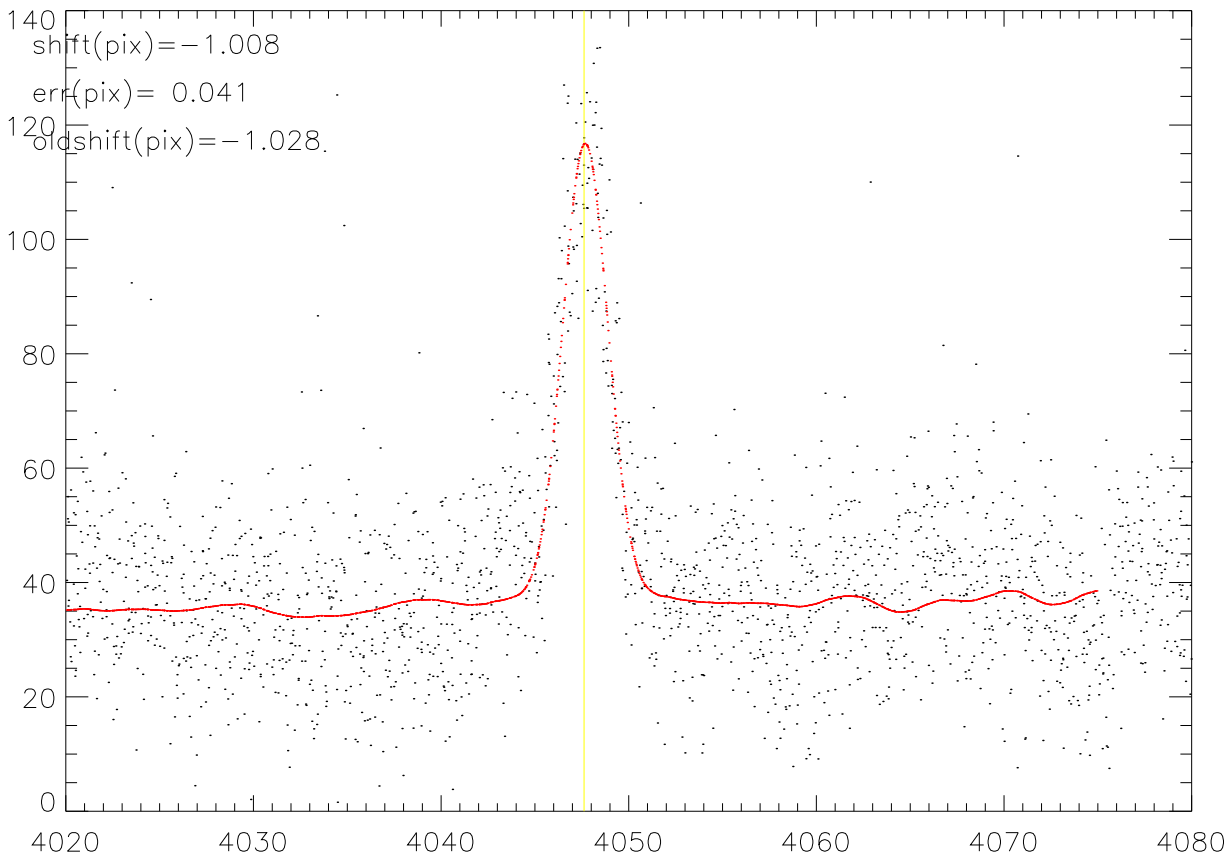

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR-b1-00050921.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 9.283
Max value = 16.098
Wed Mar 12 18:25:09 2008

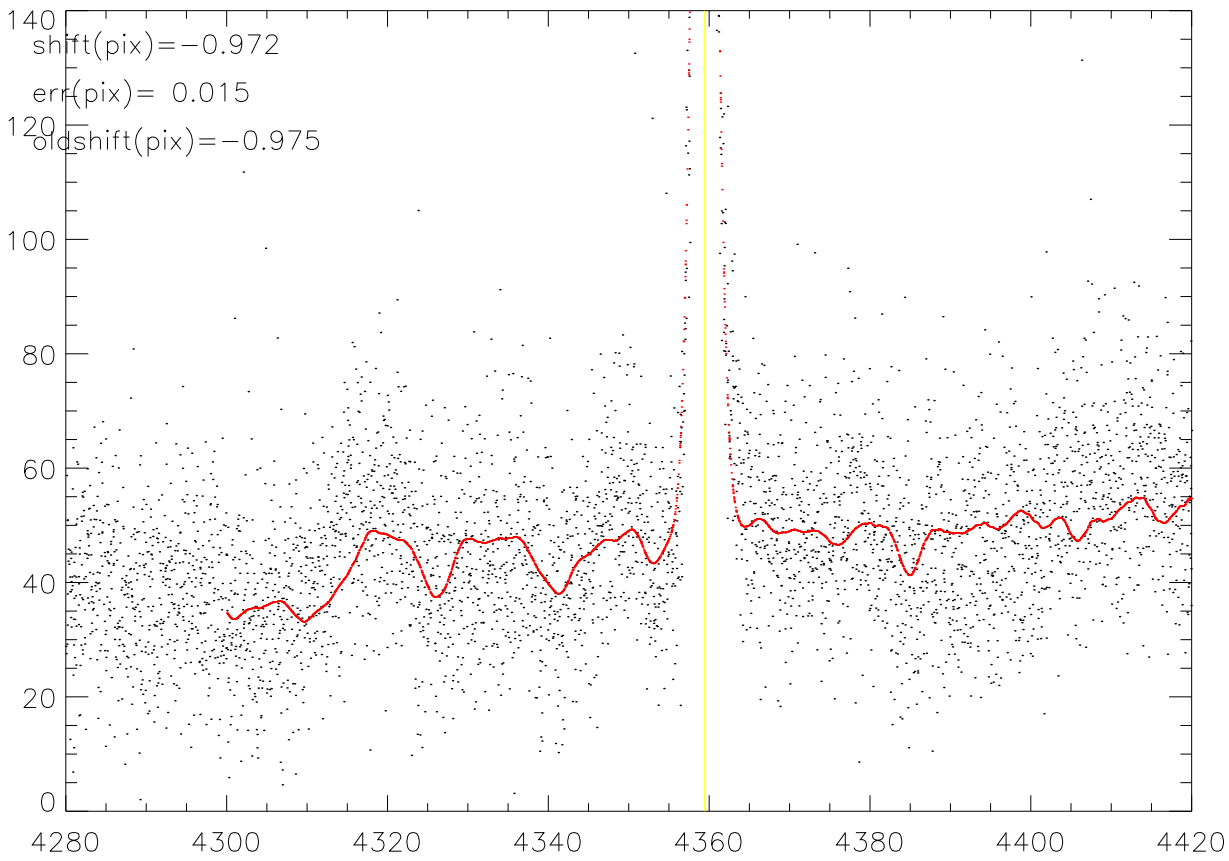

PLATE=2919 MJD=54536 Scattered Light on sdR-b1-00050921.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.5
5.3
9.6

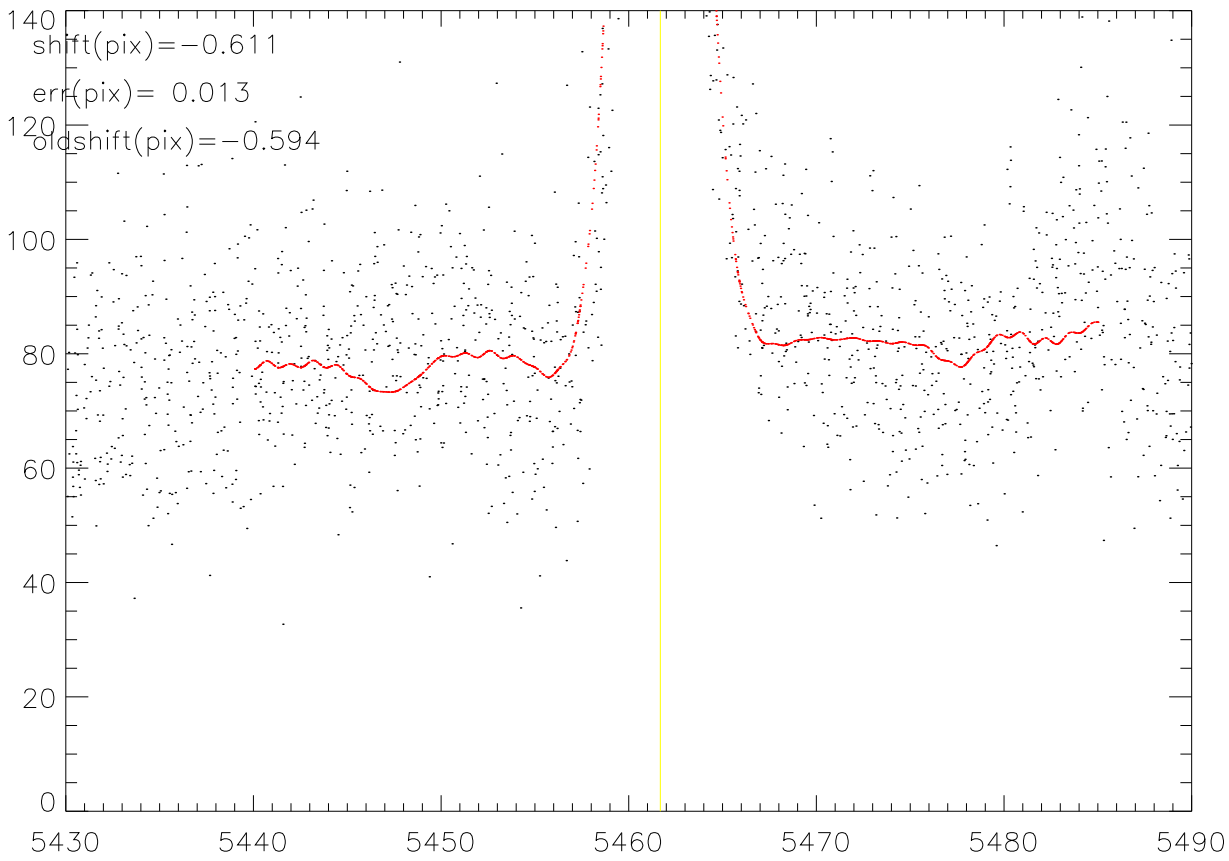

PLATE=2919 MJD=54536 Scattered Light on sdR-b1-00050921.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.858
Max value = 10.817
Wed Mar 12 18:29:17 2008

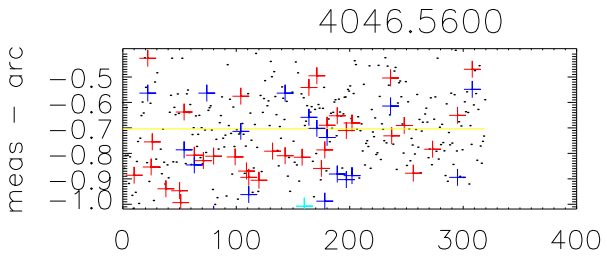

PLATE=2919 MJD=54536 Extraction chi^2 for sdR-b1-00050921.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

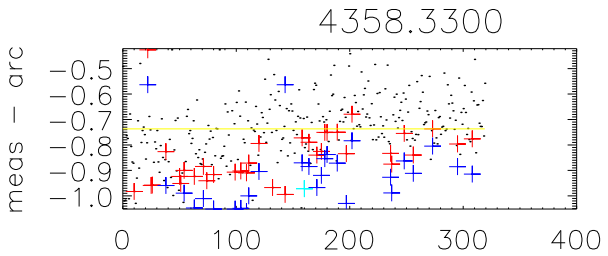

4046.5600
off: −1.03
sig: 0.034
4358.3300
off: −0.97
sig: 0.013
5460.9400
off: −0.59
sig: 0.010
5577.3390
off: −0.58
sig: 0.002
5889.9500
off: −0.43
sig: 0.006
5895.9240
off: −0.43
sig: 0.008

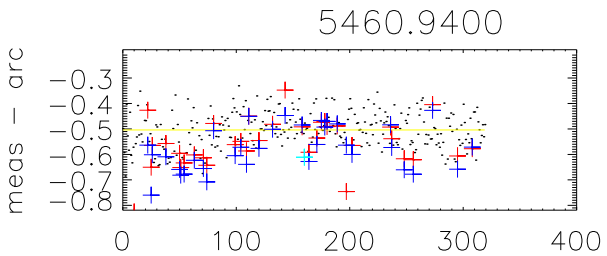

shift(pix)=−1.008
err(pix)= 0.041
oldshift(pix)=−1.028
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

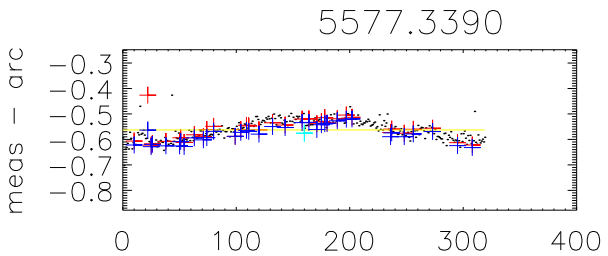

shift(pix)=−0.972
err(pix)= 0.015
oldshift(pix)=−0.975
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

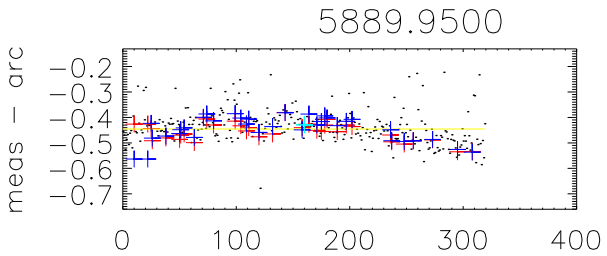

shift(pix)=−0.611
err(pix)= 0.013
oldshift(pix)=−0.594
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

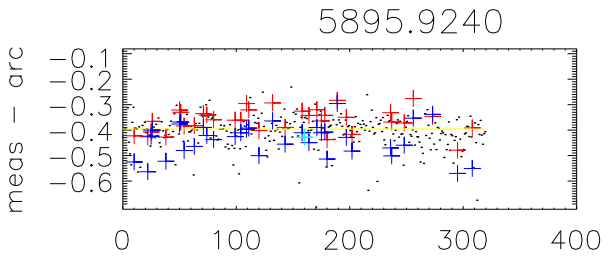

4046.5600
meas − arc
−0.5
−0.6
−0.7
−0.8
−0.9
−1.0
0
100
200
300
400

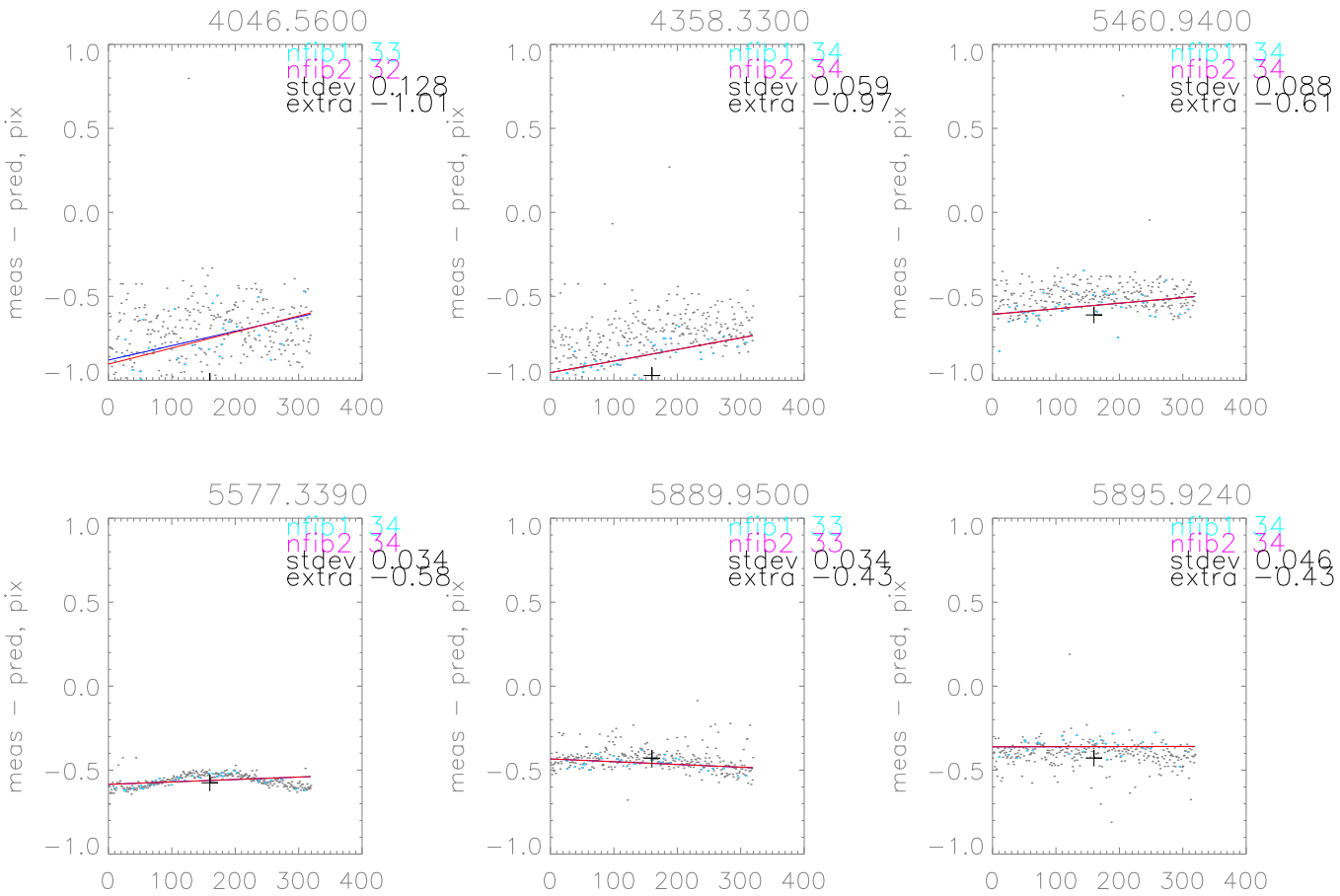

4358.3300
meas − arc
−0.5
−0.6
−0.7
−0.8
−0.9
−1.0
0
100
200
300
400

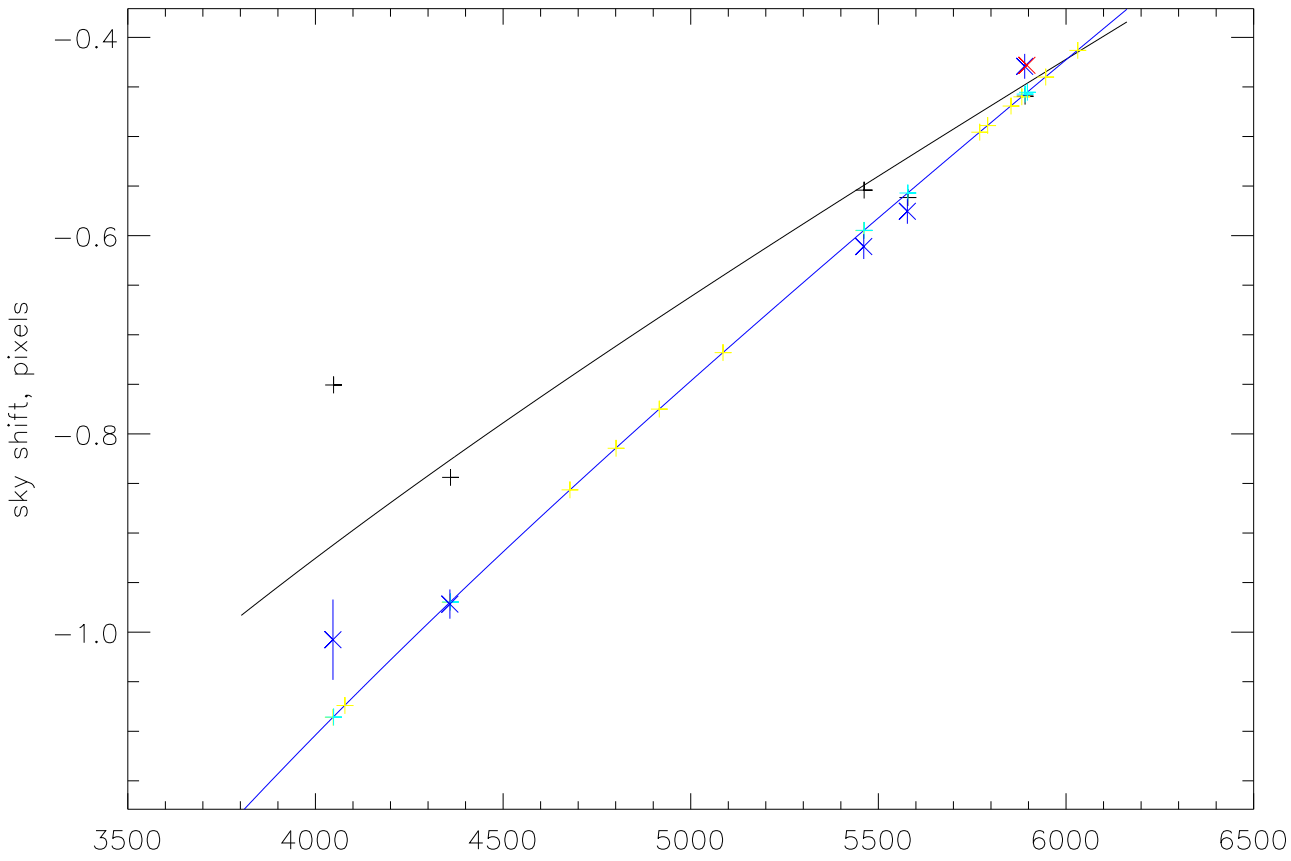

5460.9400
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

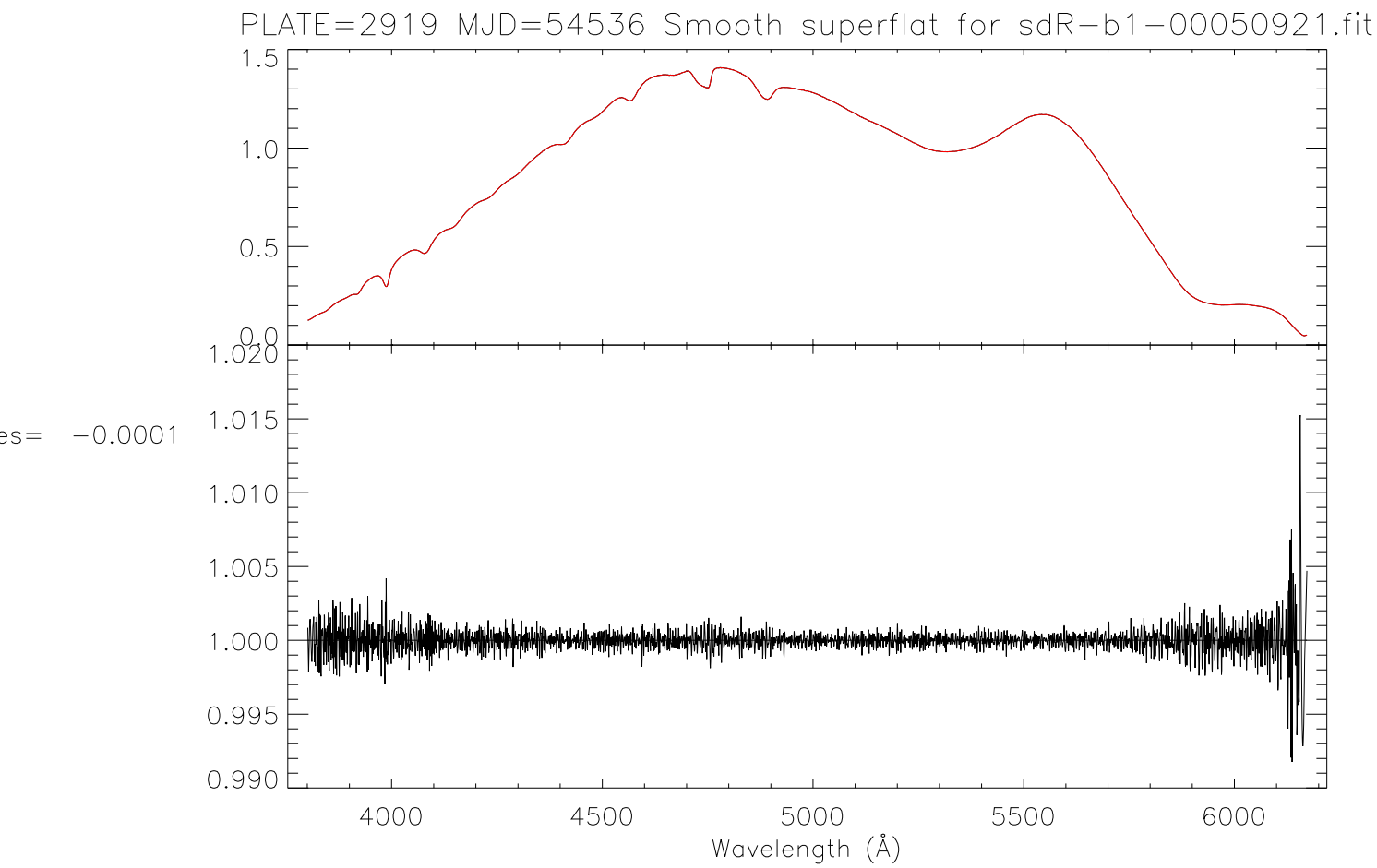

5577.3390
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400


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

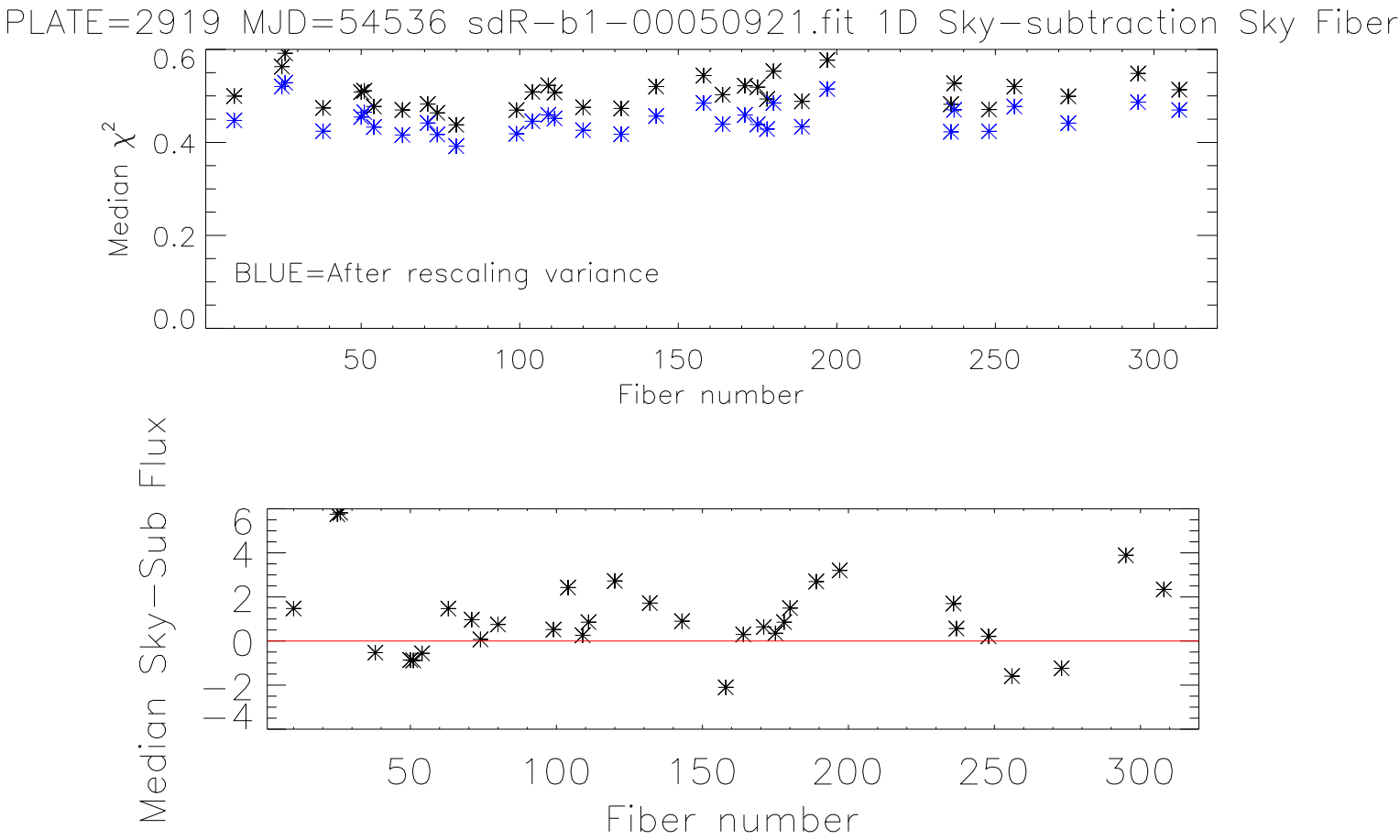

5895.9240
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

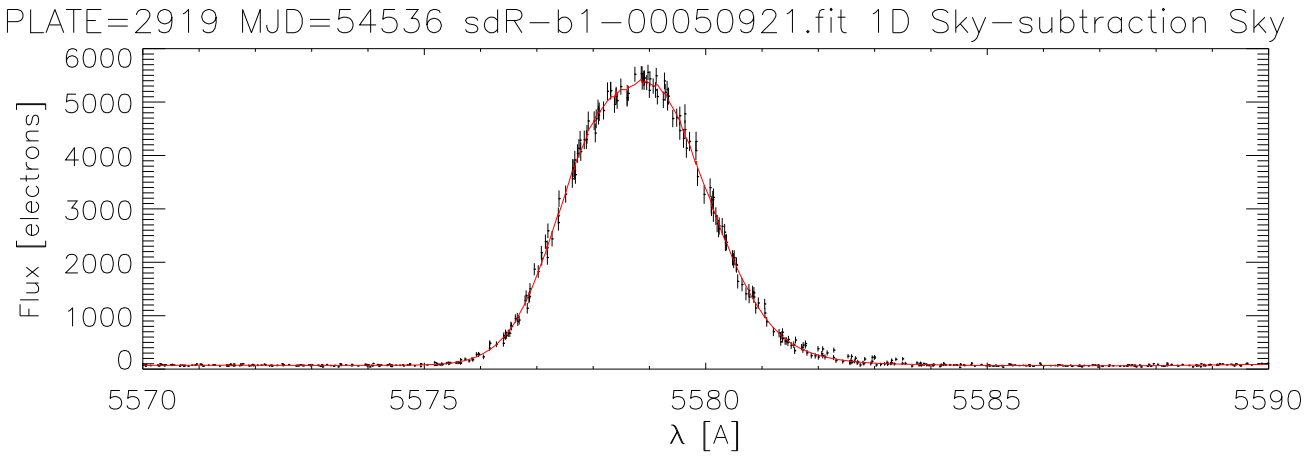

4046.5600
nfib1 33
nfib2 32
stdev 0.128
extra −1.01
4358.3300
nfib1 34
nfib2 34
stdev 0.059
extra −0.97
5460.9400
nfib1 34
nfib2 34
stdev 0.088
extra −0.61
5577.3390
nfib1 34
nfib2 34
stdev 0.034
extra −0.58
5889.9500
nfib1 33
nfib2 33
stdev 0.034
extra −0.43
5895.9240
nfib1 34
nfib2 34
stdev 0.046
extra −0.43
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

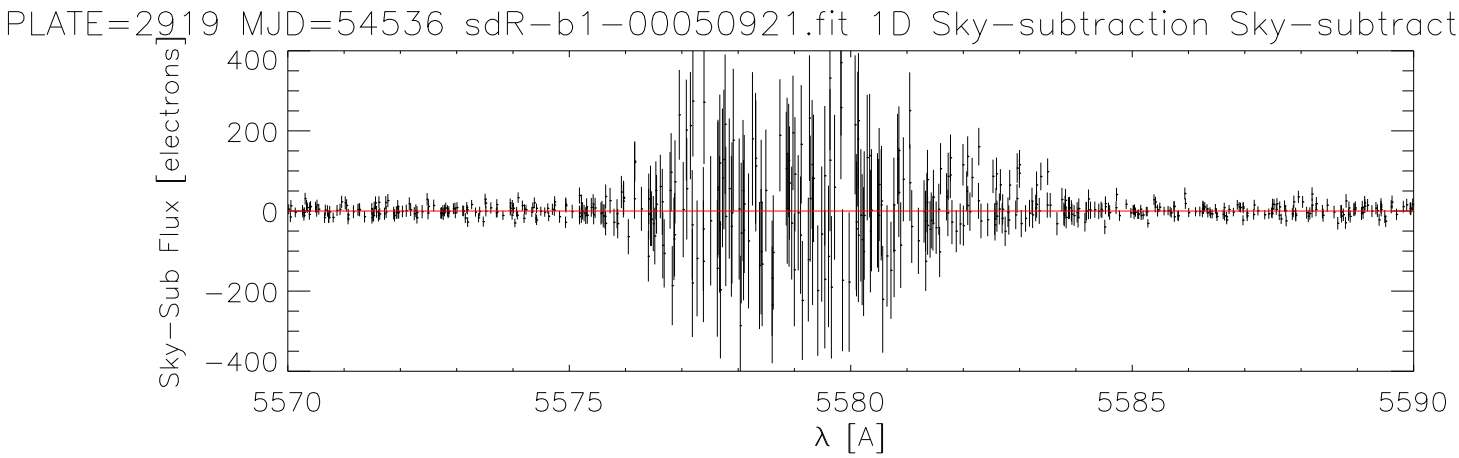

−0.4
−0.6
−0.8
−1.0
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

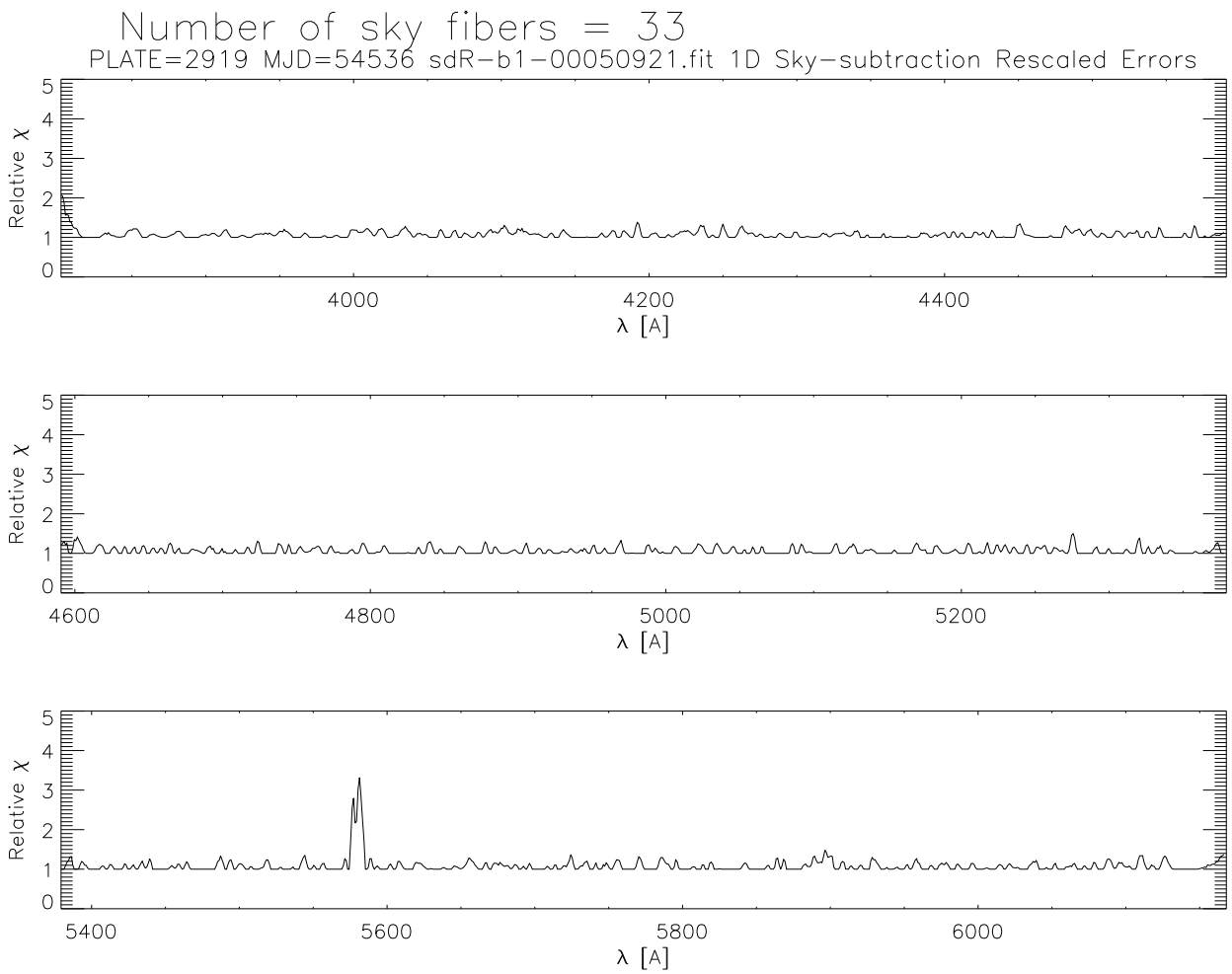

PLATE=2919 MJD=54536 Smooth superflat for sdR-b1-00050921.fit
1.5
1.0
0.5
0.0
1.020
1.015
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

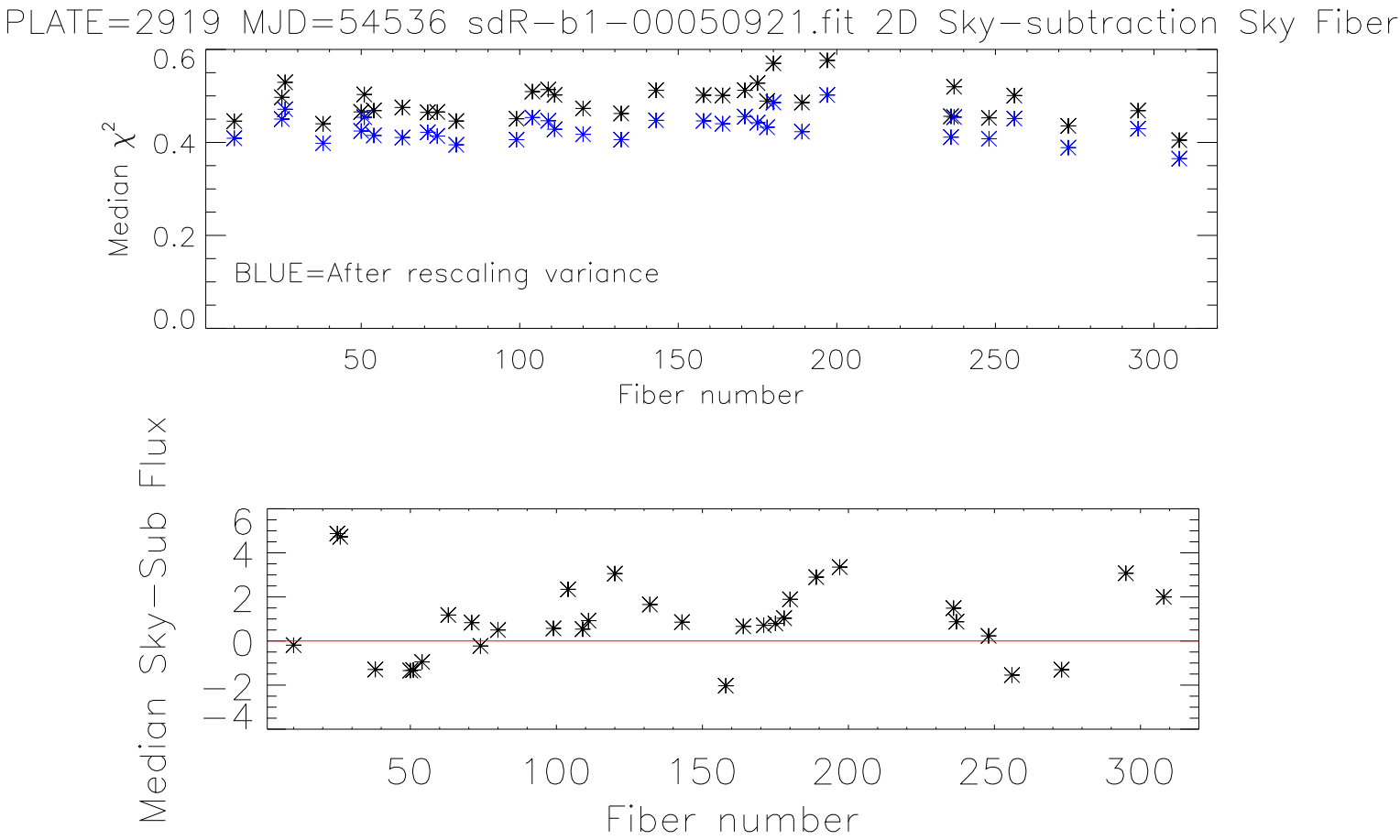
es= −0.0001

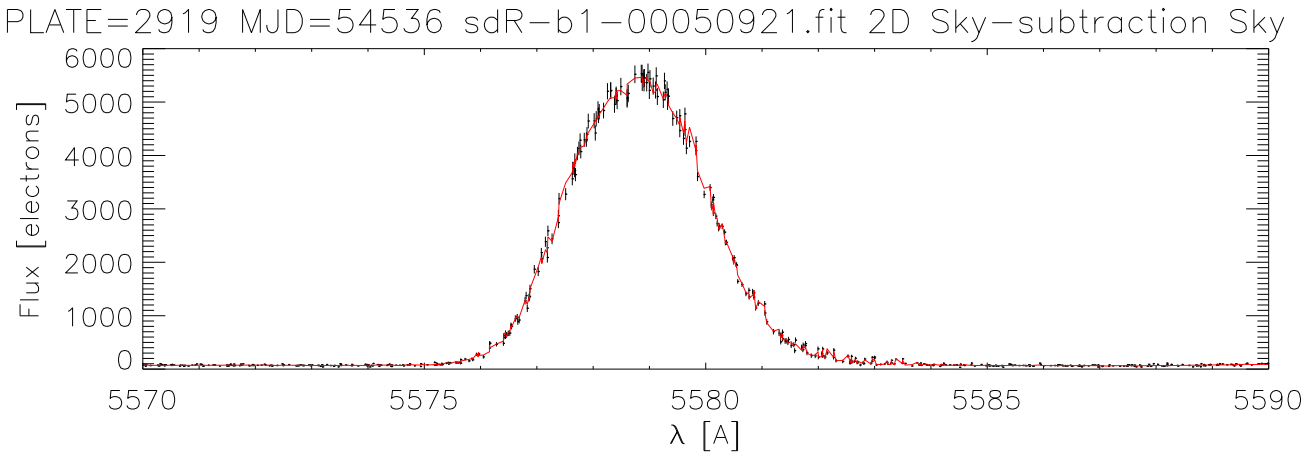

PLATE=2919 MJD=54536 sdR-b1-00050921.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

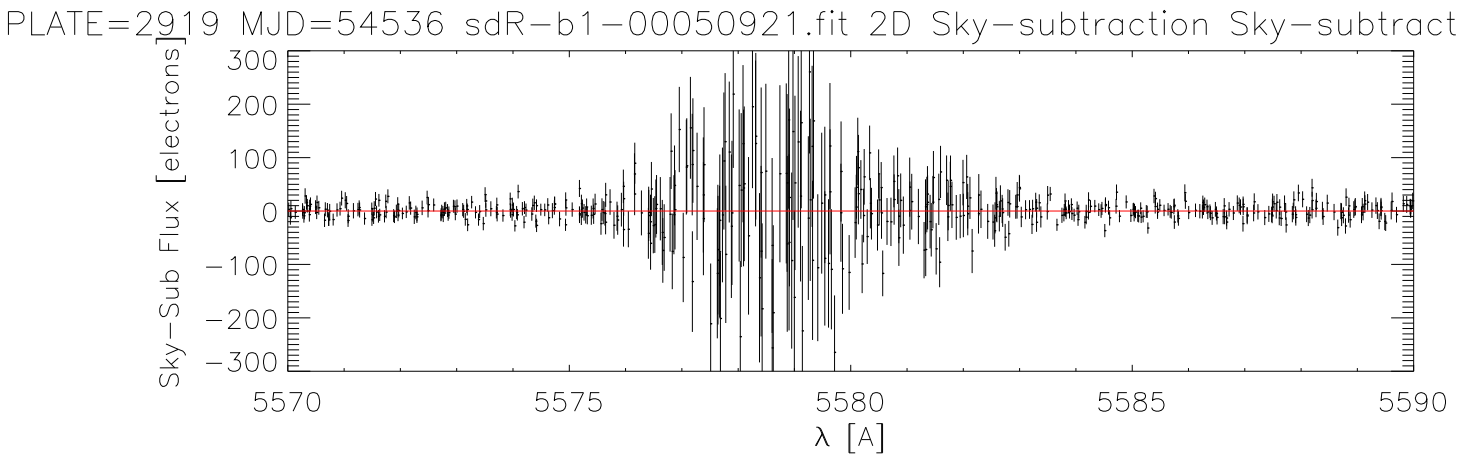

PLATE=2919 MJD=54536 sdR-b1-00050921.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

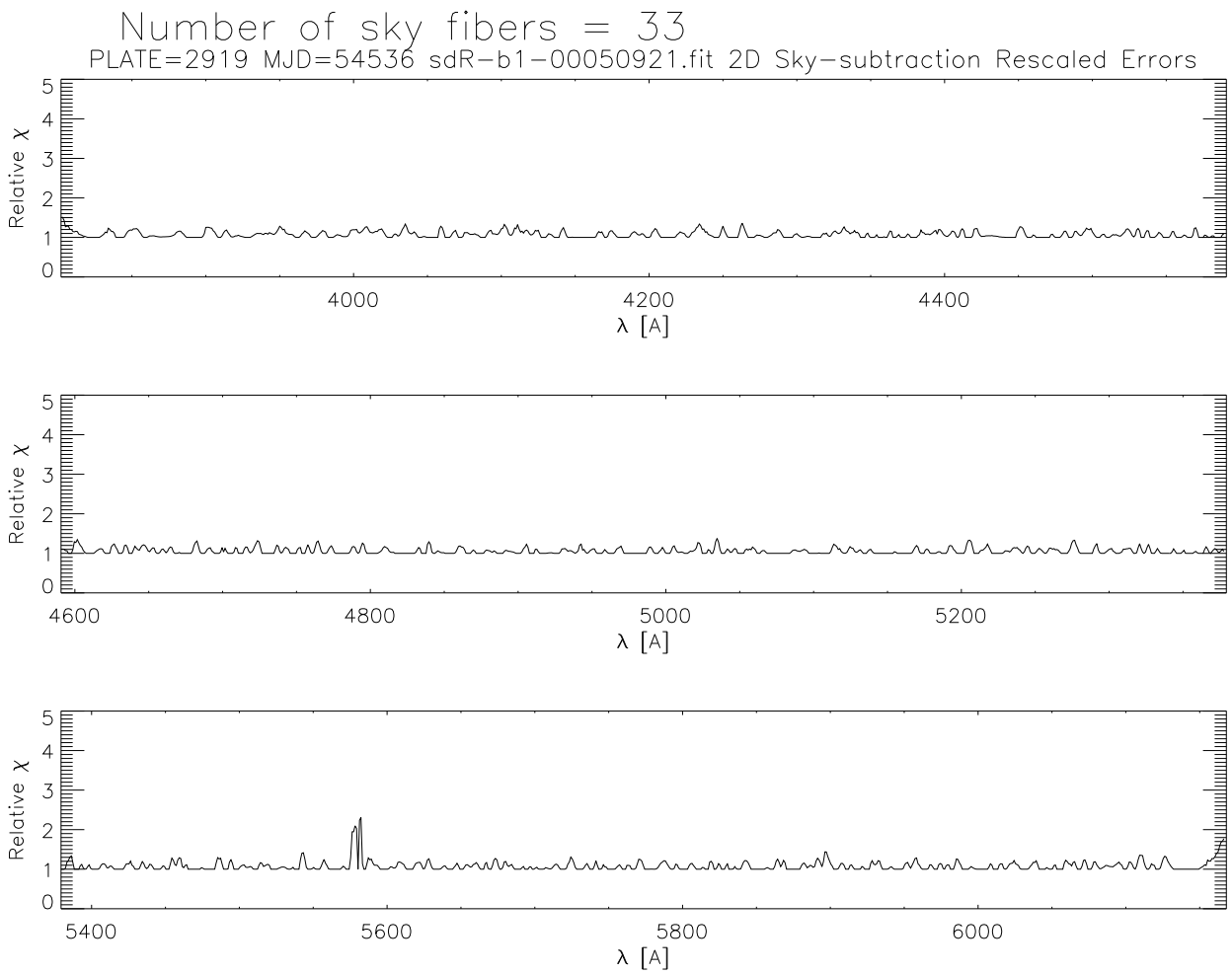

PLATE=2919 MJD=54536 sdR-b1-00050921.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

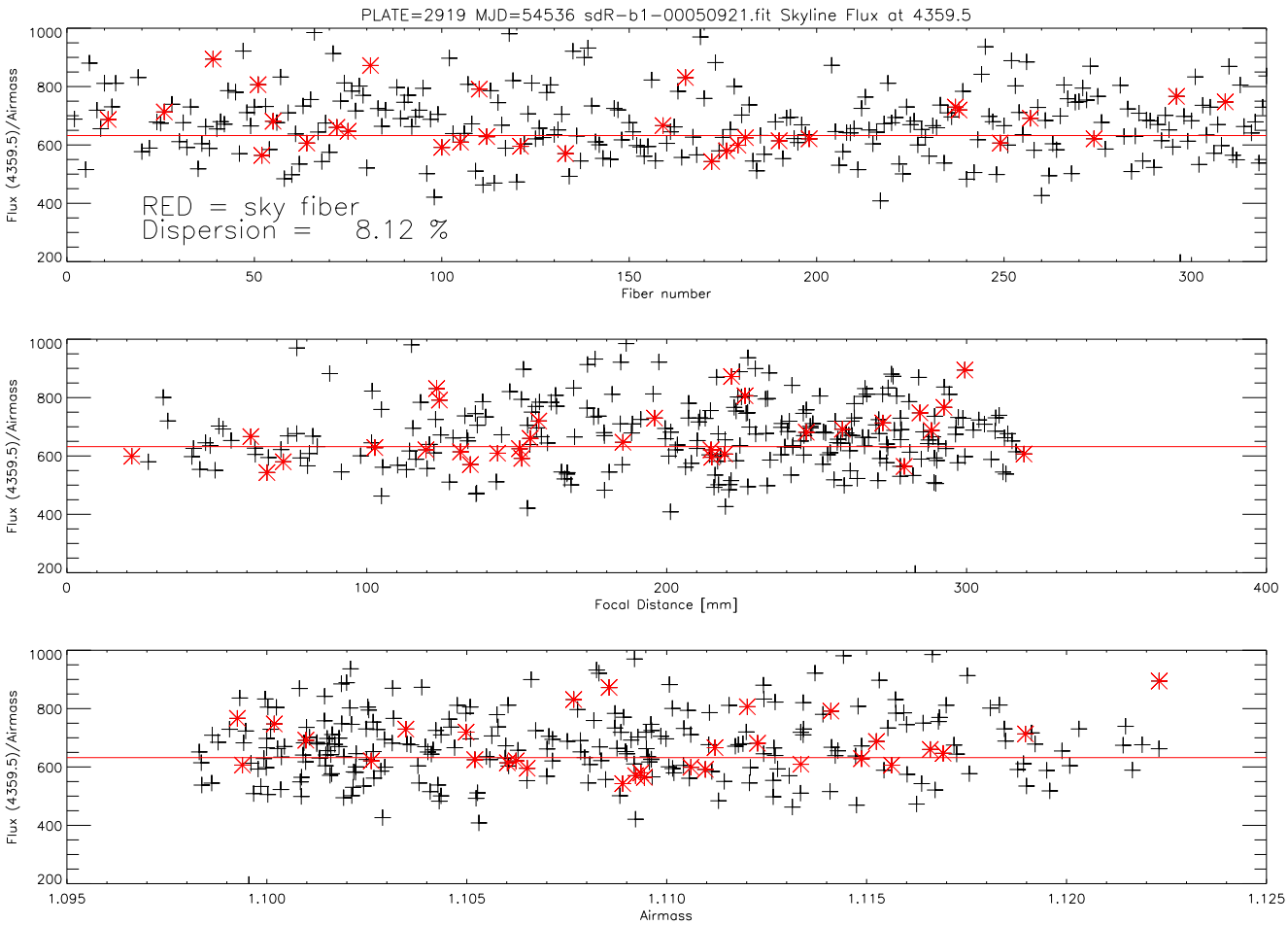

Number of sky fibers = 33
PLATE=2919 MJD=54536 sdR-b1-00050921.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

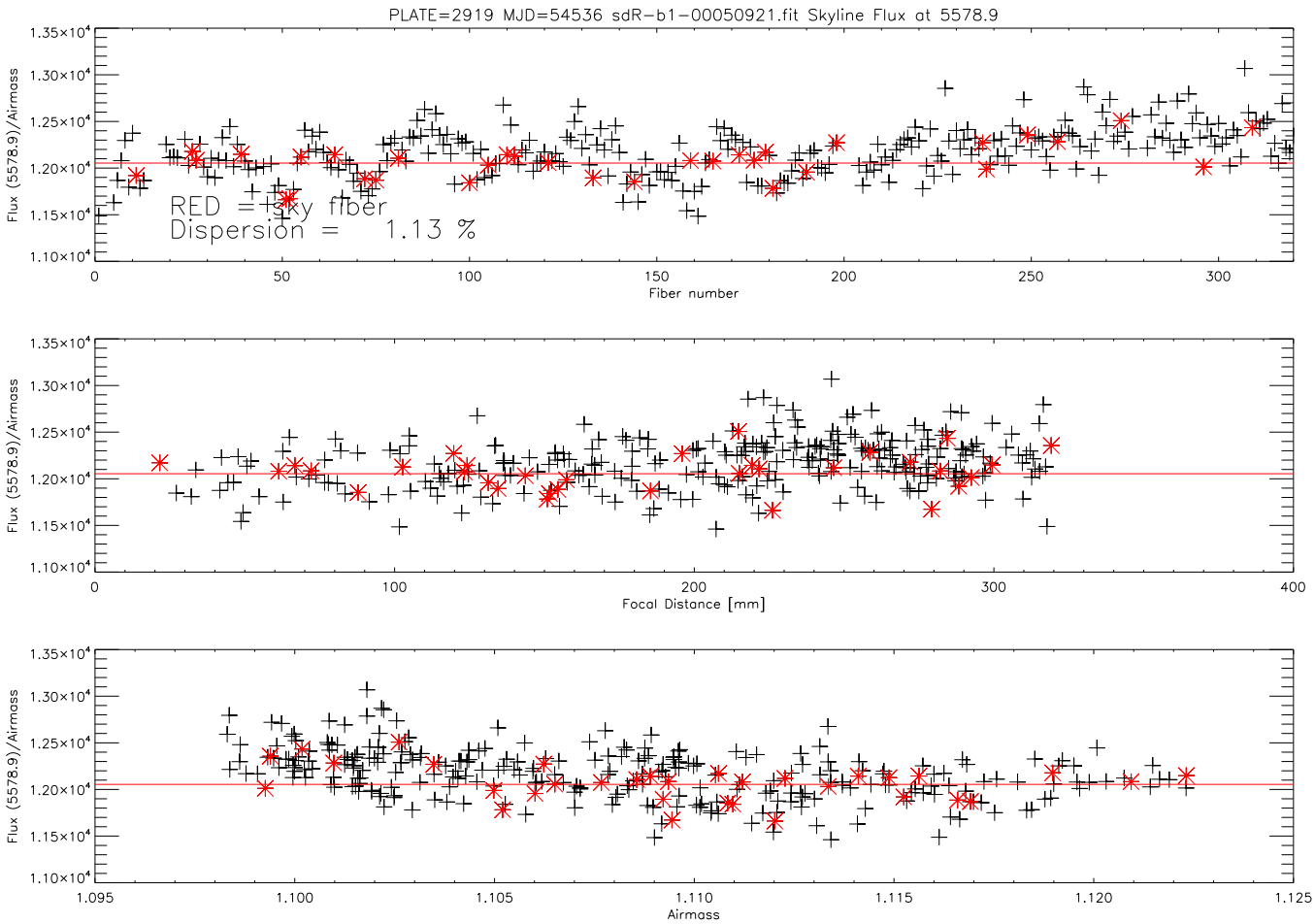

PLATE=2919 MJD=54536 sdR-b1-00050921.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

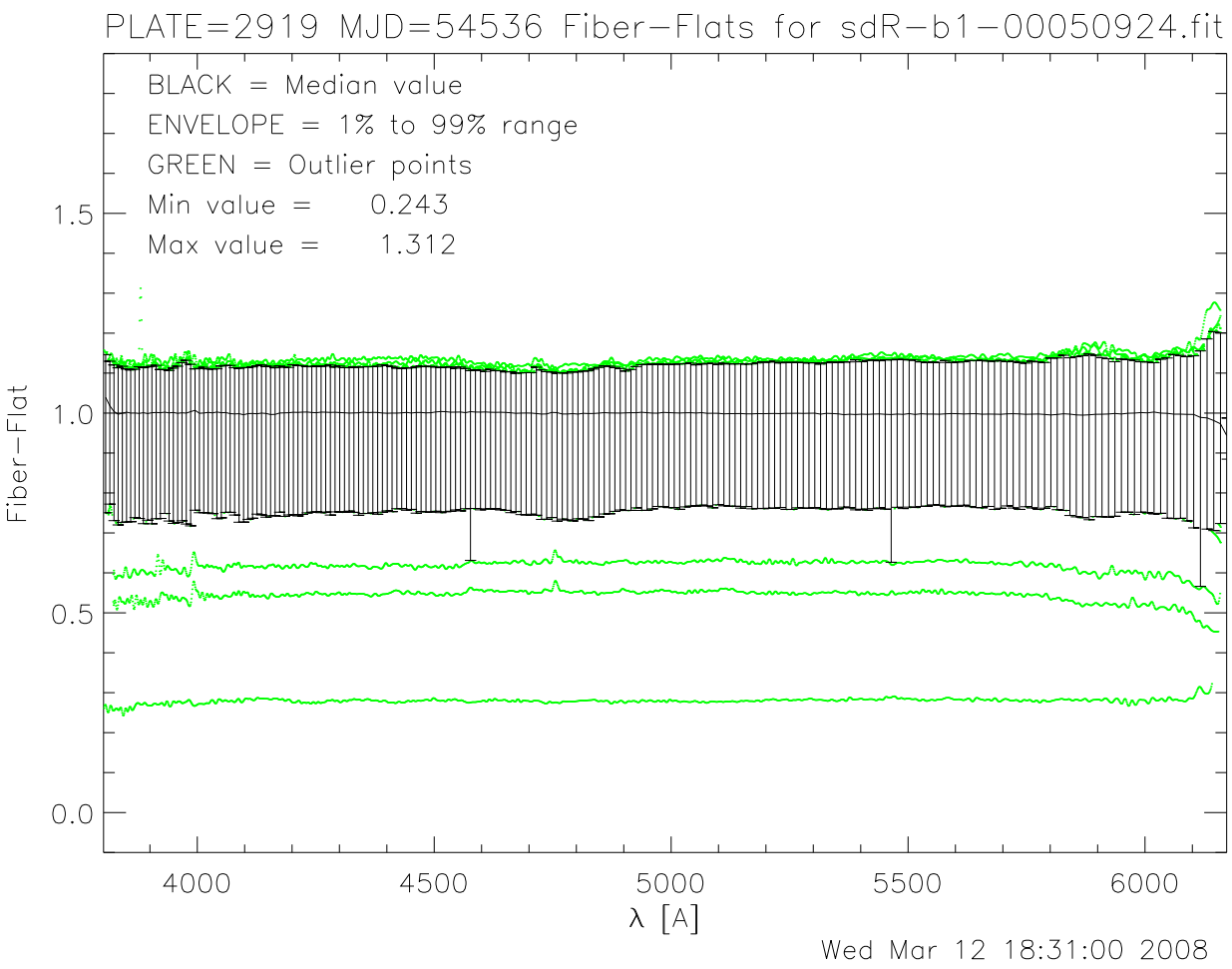

PLATE=2919 MJD=54536 sdR-b1-00050921.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

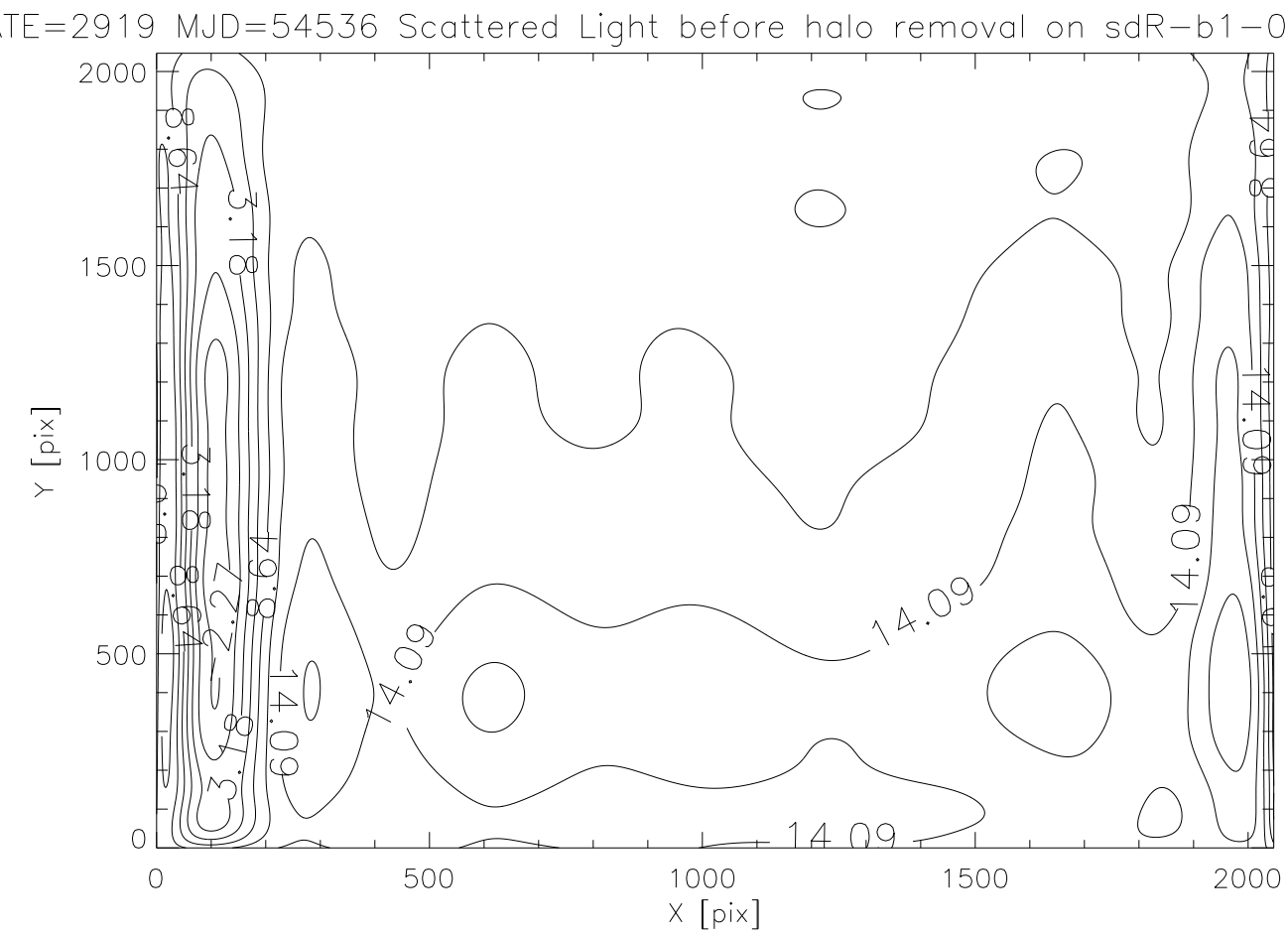

PLATE=2919 MJD=54536 sdR-b1-00050921.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

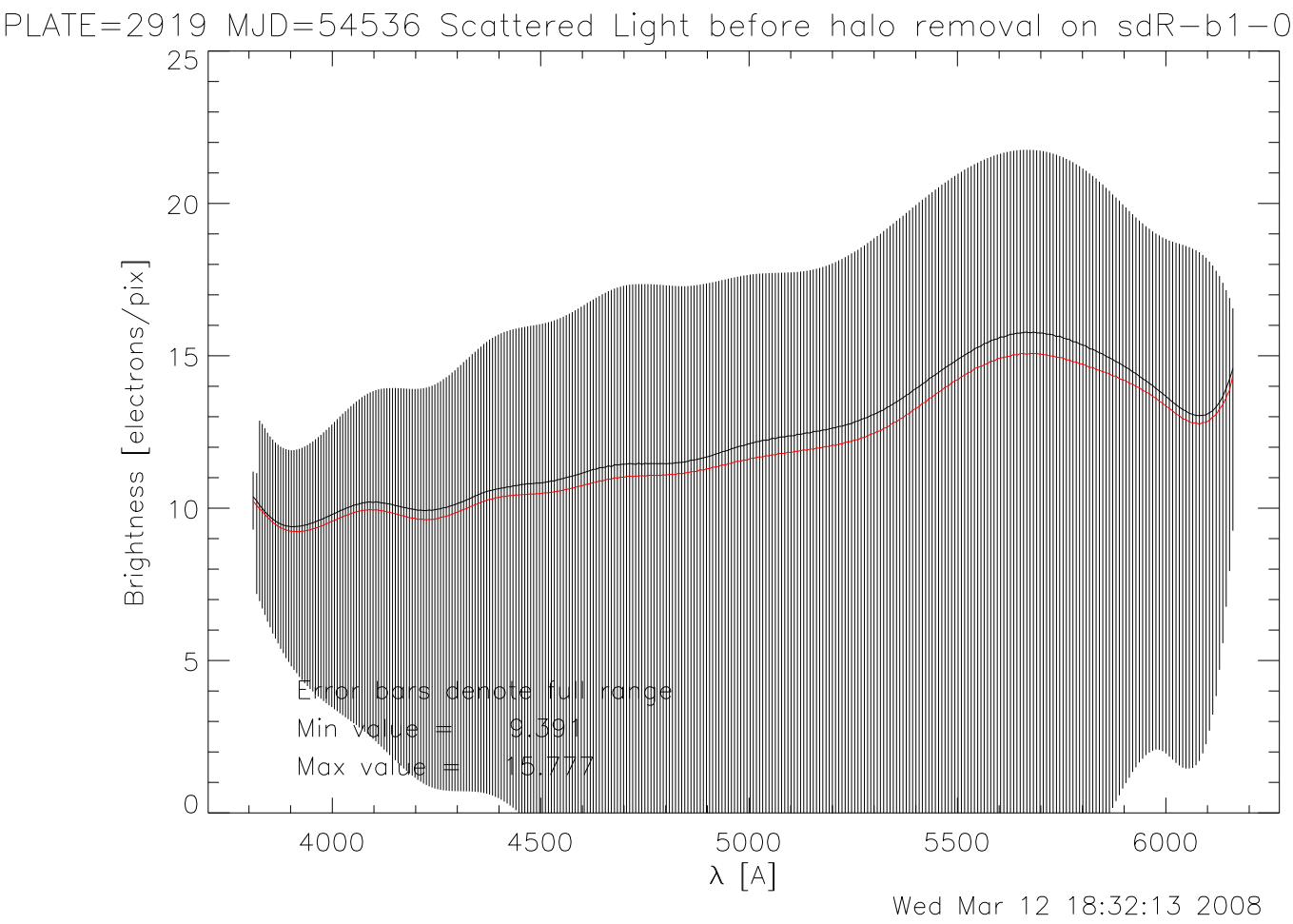

Number of sky fibers = 33
PLATE=2919 MJD=54536 sdR-b1-00050921.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

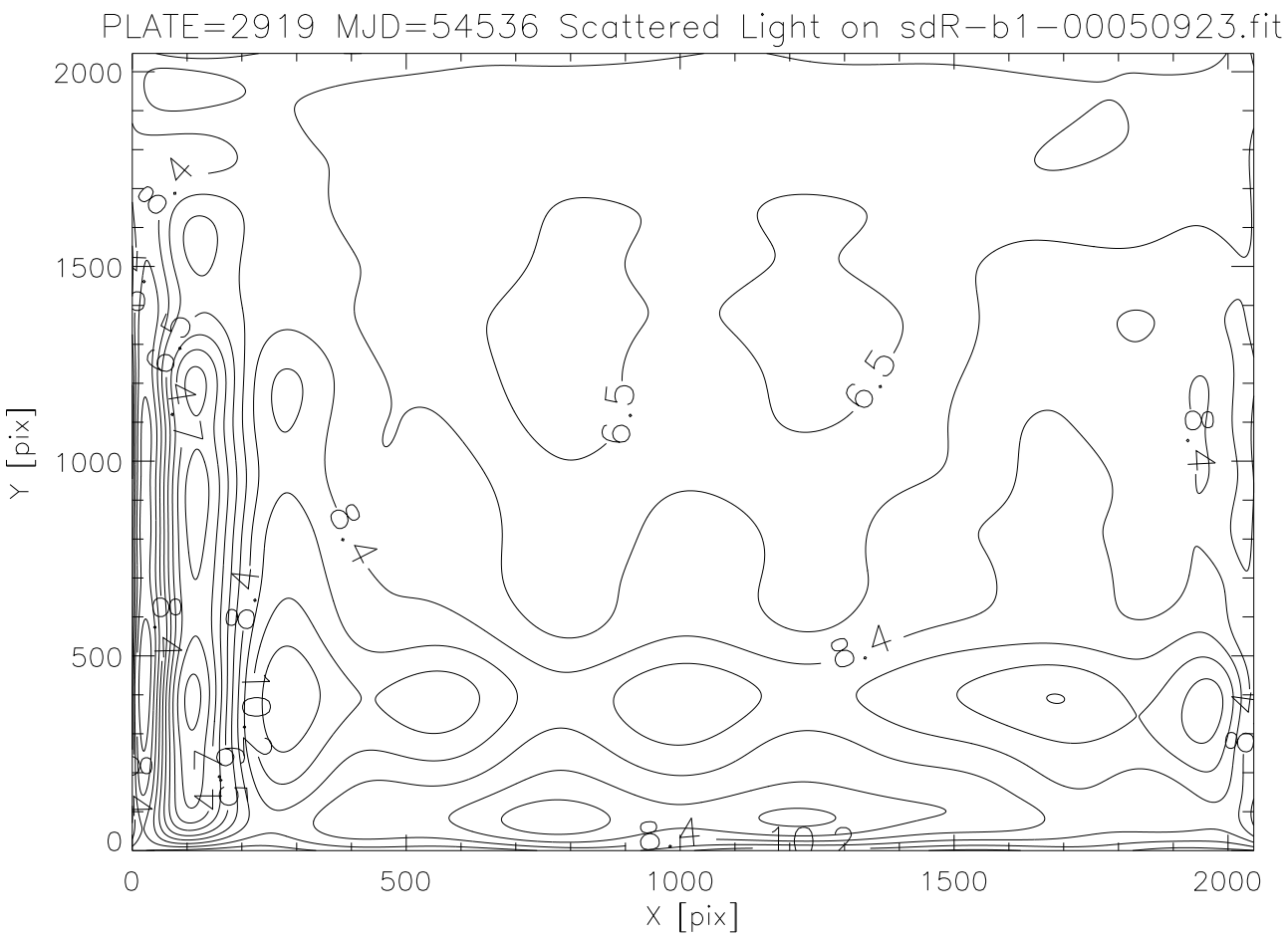

PLATE=2919 MJD=54536 sdR-b1-00050921.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 8.12 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

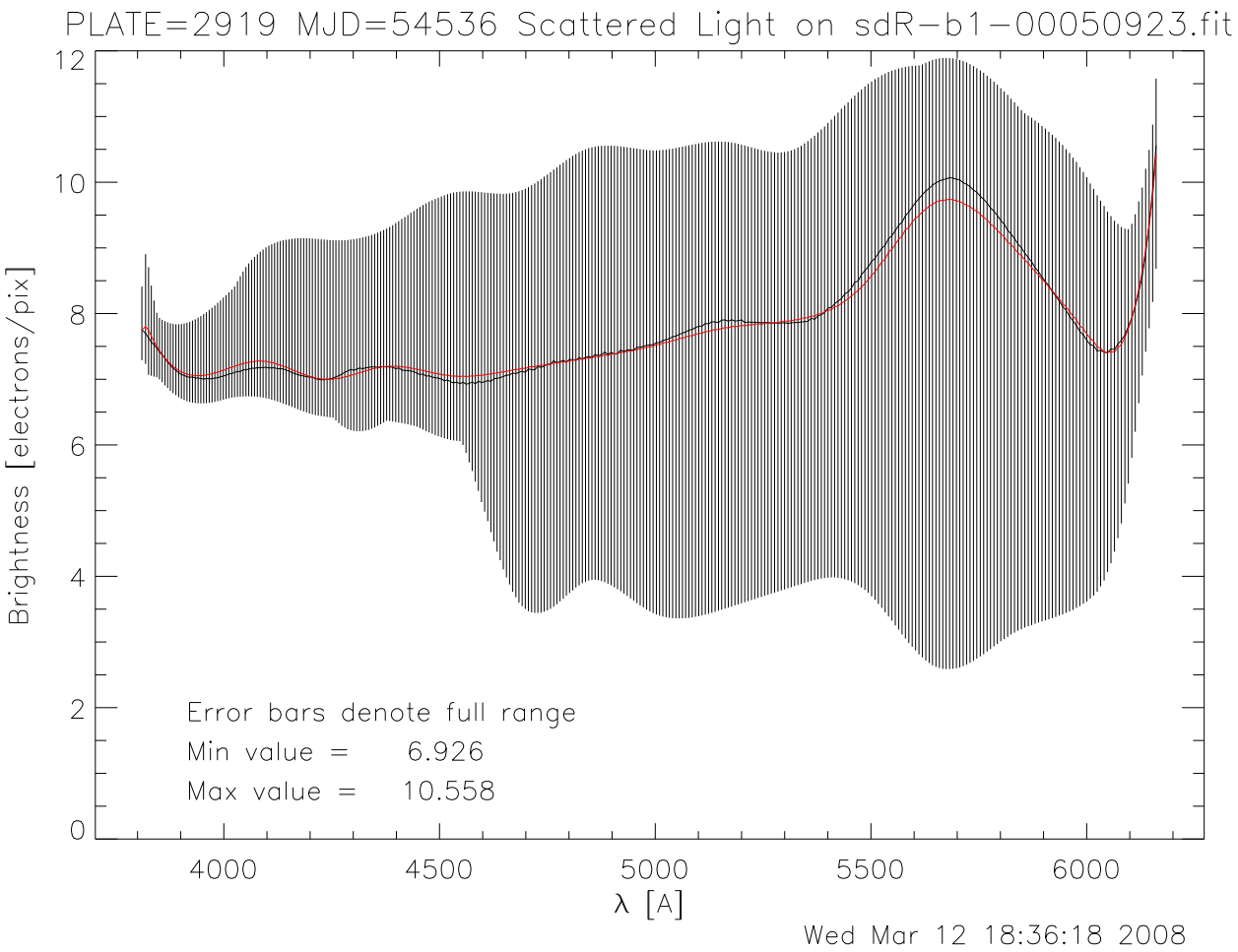

PLATE=2919 MJD=54536 sdR-b1-00050921.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.13 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

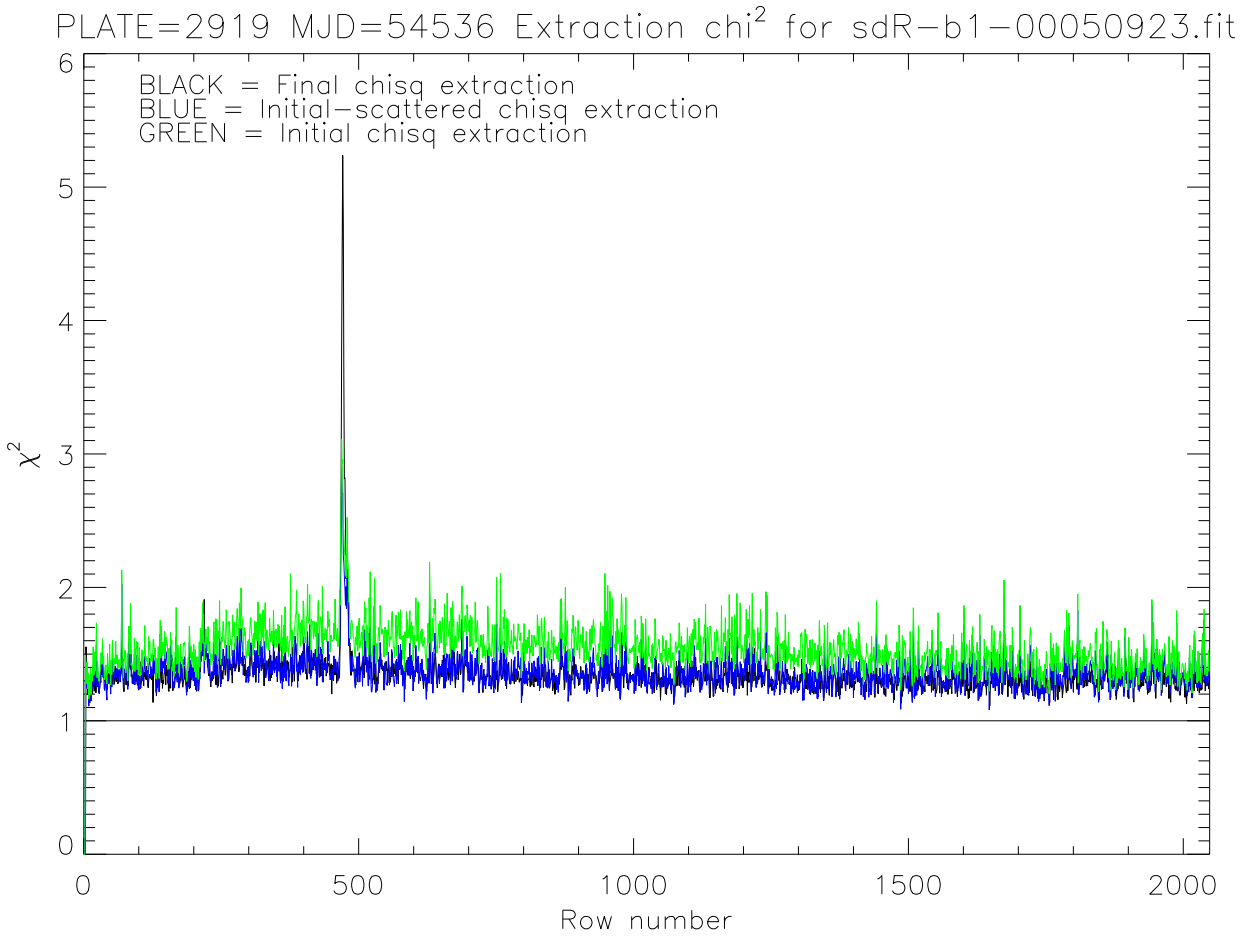

PLATE=2919 MJD=54536 Fiber−Flats for sdR−b1−00050924.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.243
Max value = 1.312
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:31:00 2008

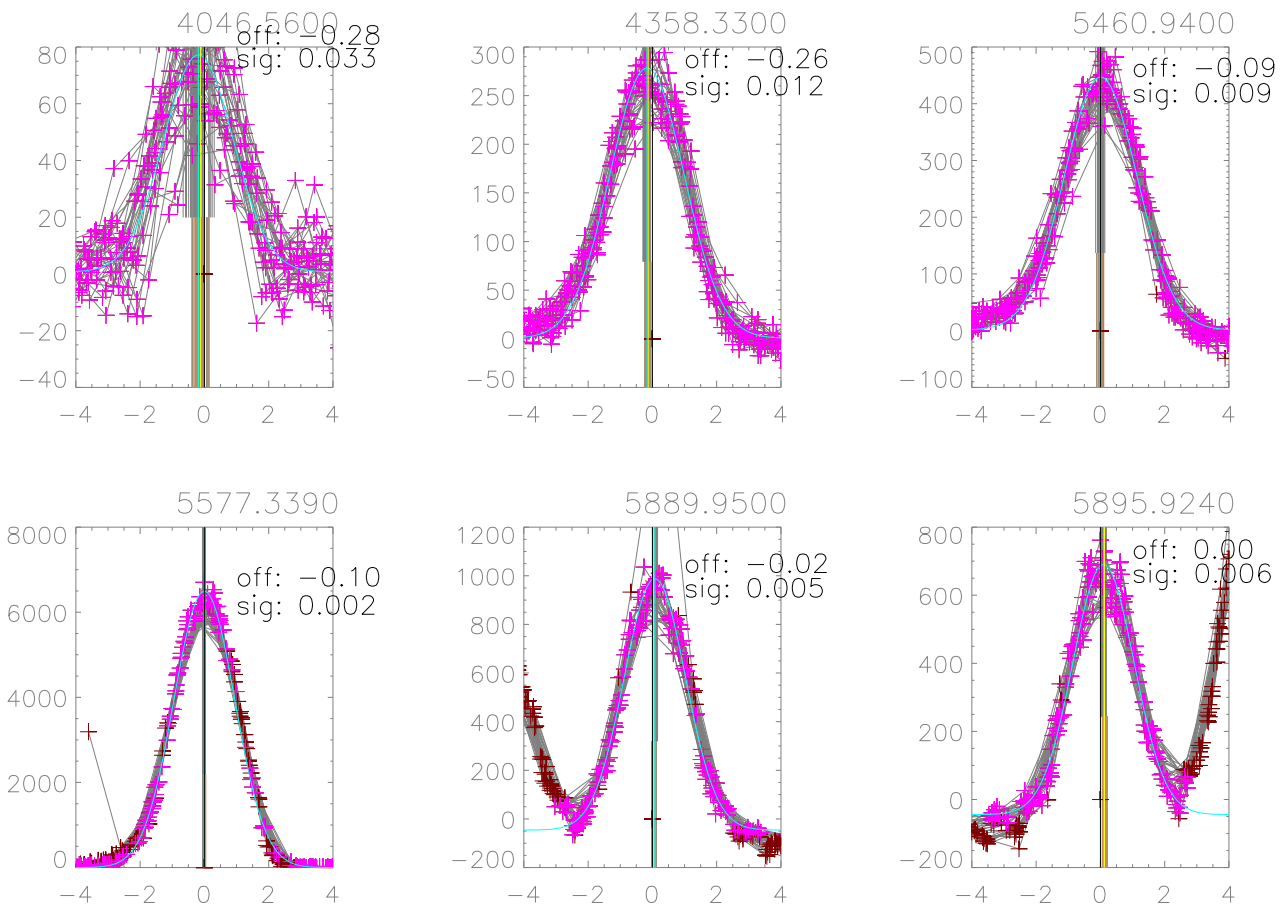

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR−b1−00050923.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
14.09
14.09
14.09

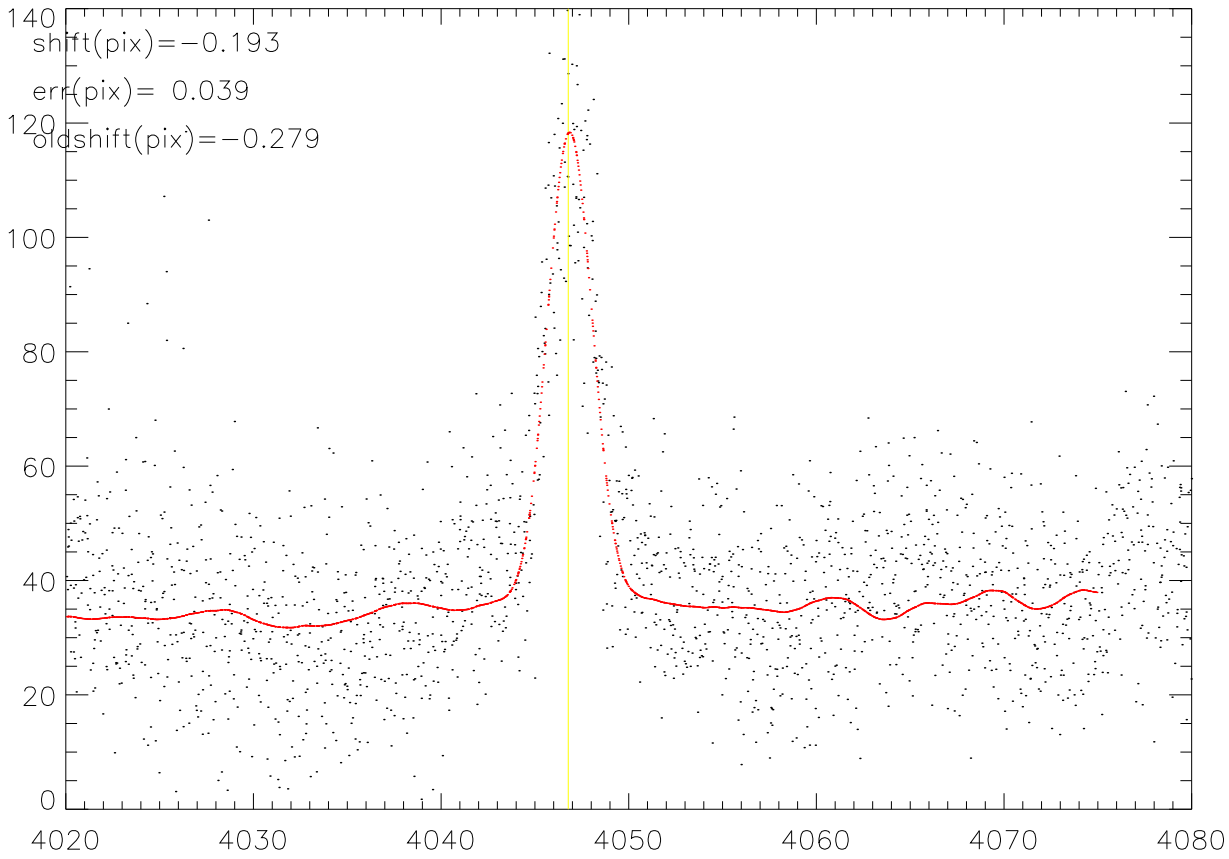

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR-b1-00050923.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 9.391
Max value = 15.777
Wed Mar 12 18:32:13 2008

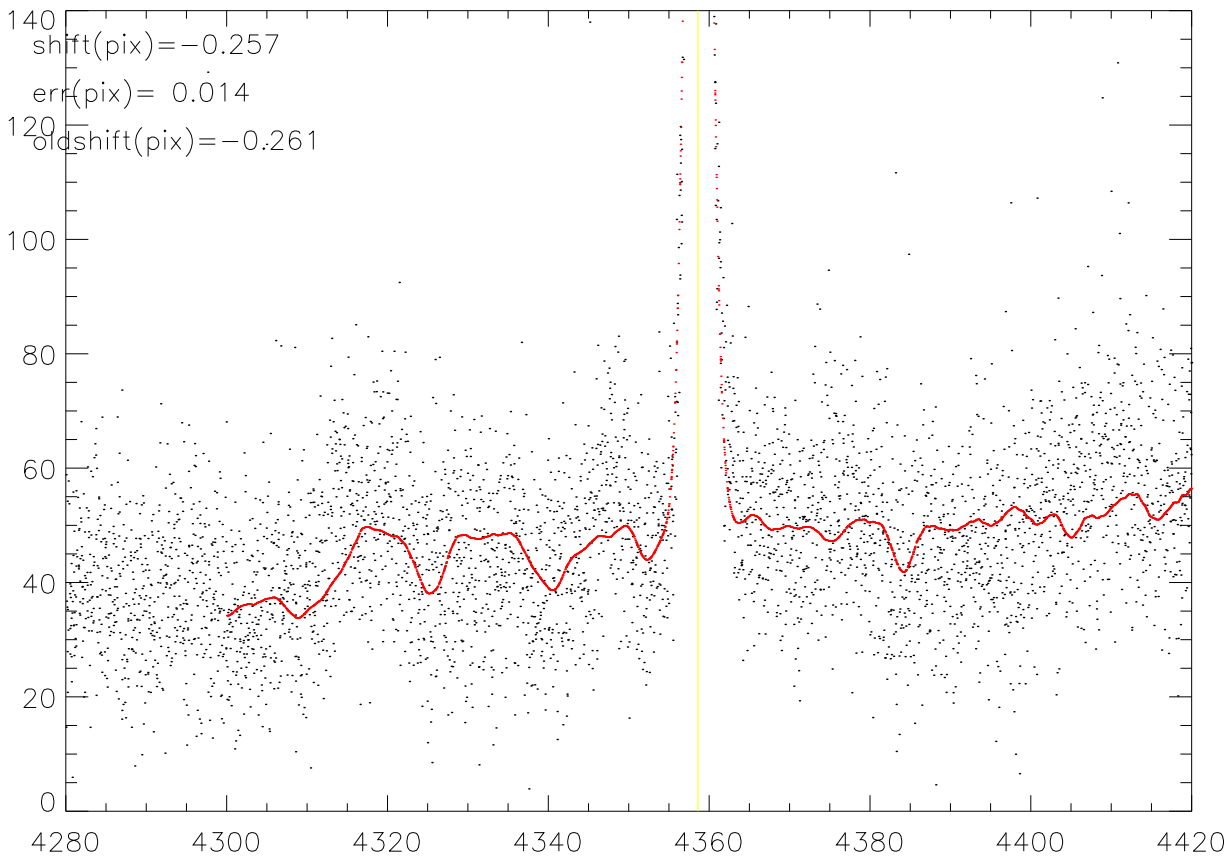

PLATE=2919 MJD=54536 Scattered Light on sdR-b1-00050923.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.5
8.4
10.2

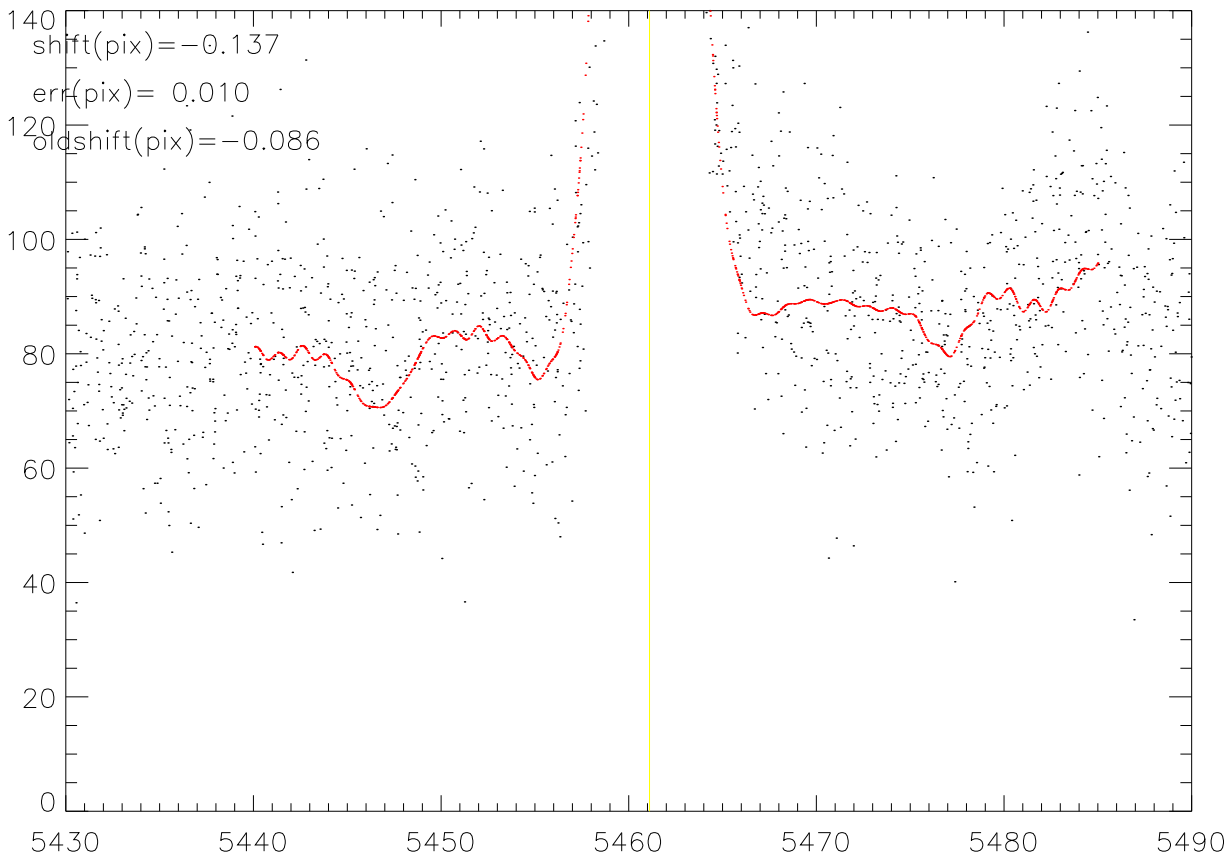

PLATE=2919 MJD=54536 Scattered Light on sdR-b1-00050923.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.926
Max value = 10.558
Wed Mar 12 18:36:18 2008

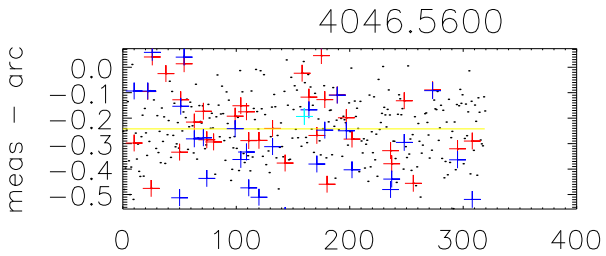

PLATE=2919 MJD=54536 Extraction chi^2 for sdR−b1−00050923.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

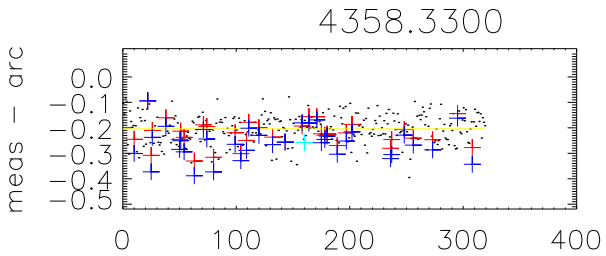

4046.5600
off: −0.28
sig: 0.033
4358.3300
off: −0.26
sig: 0.012
5460.9400
off: −0.09
sig: 0.009
5577.3390
off: −0.10
sig: 0.002
5889.9500
off: −0.02
sig: 0.005
5895.9240
off: 0.00
sig: 0.006

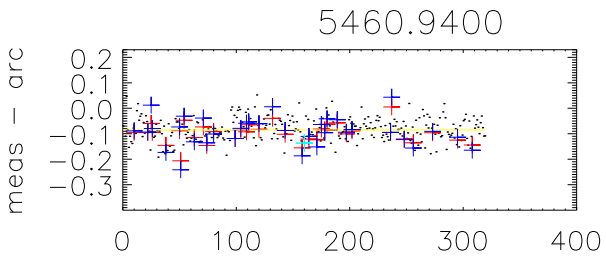

shift(pix)=−0.193
err(pix)= 0.039
oldshift(pix)=−0.279
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

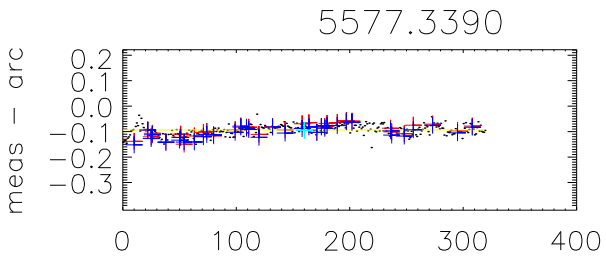

shift(pix)=−0.257
err(pix)= 0.014
oldshift(pix)=−0.261
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

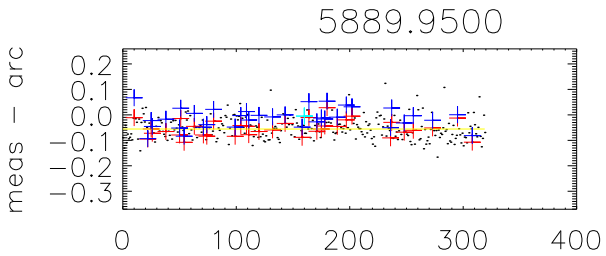

shift(pix)=−0.137
err(pix)= 0.010
oldshift(pix)=−0.086
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

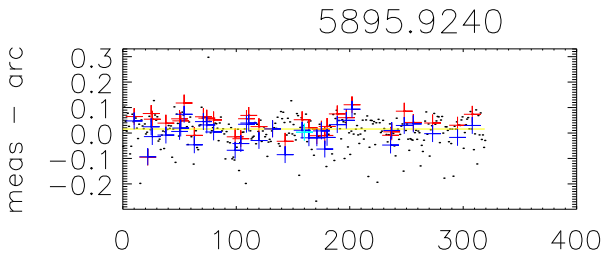

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

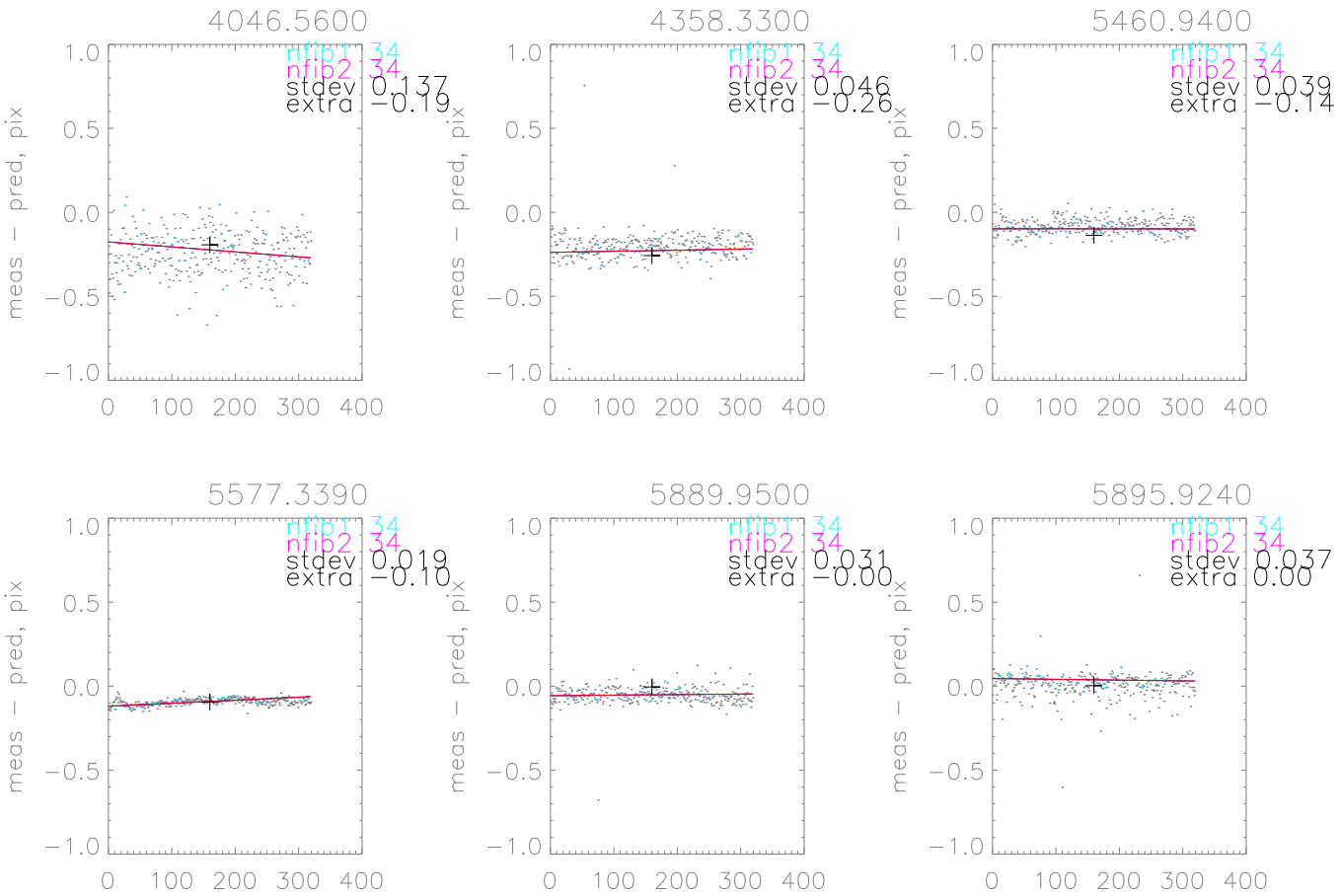

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

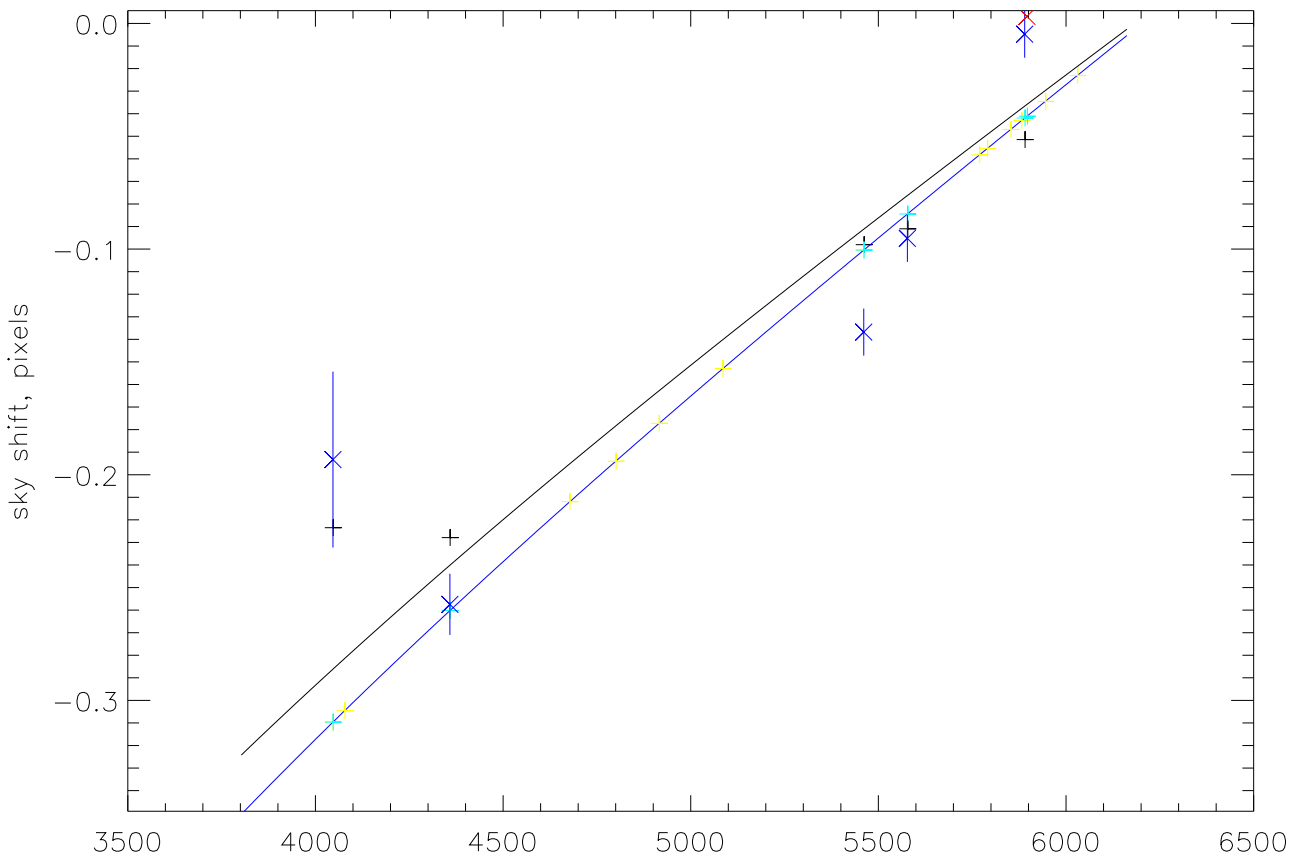

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

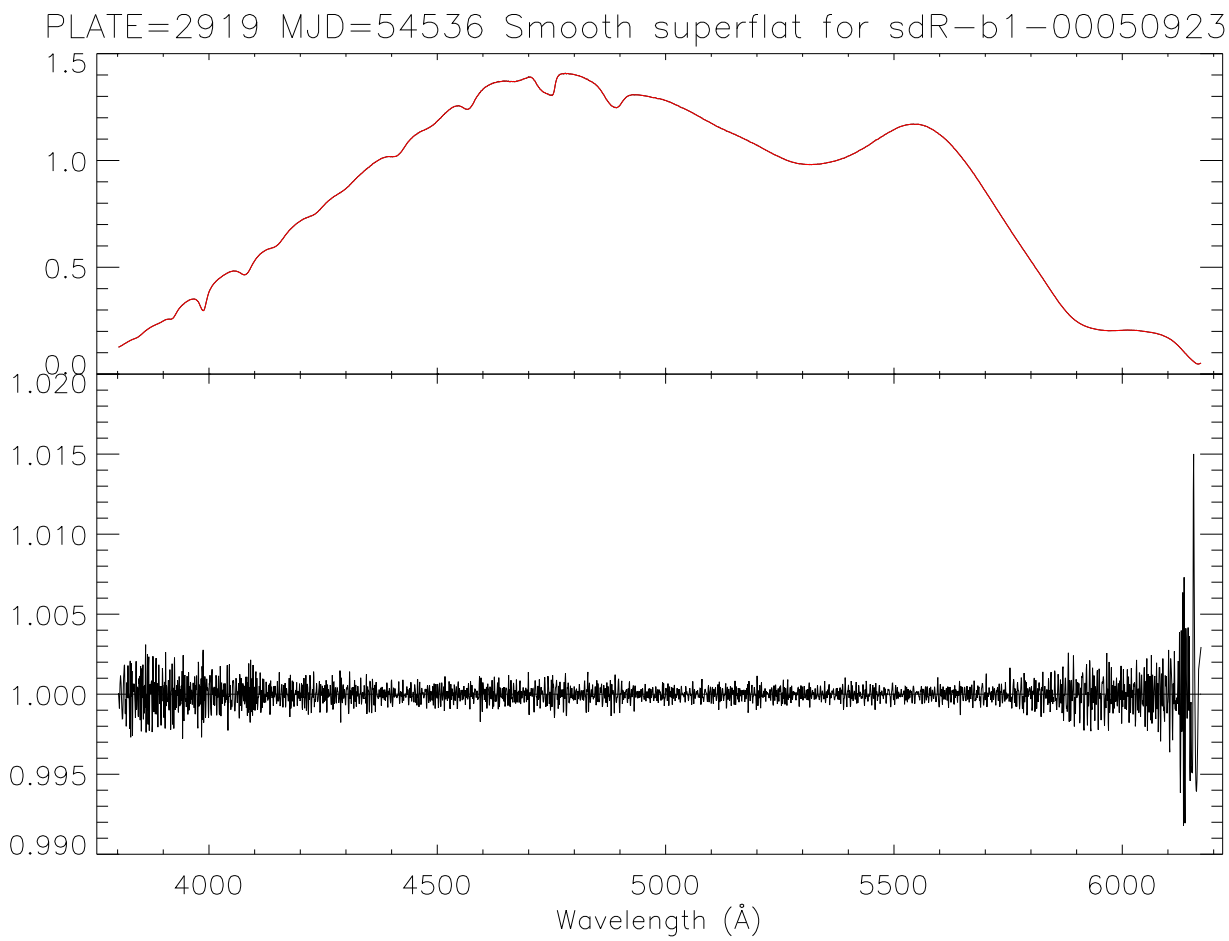

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

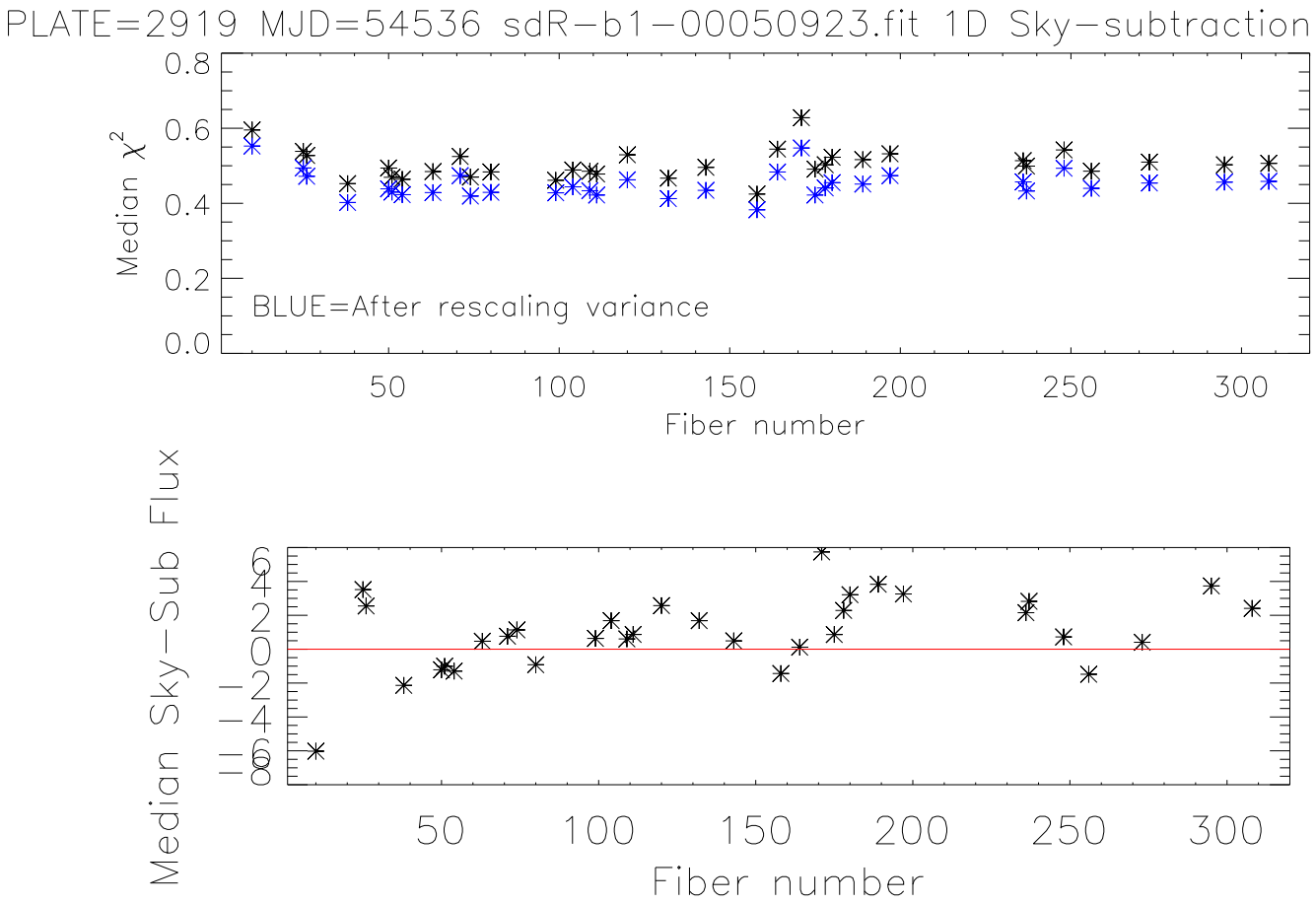

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

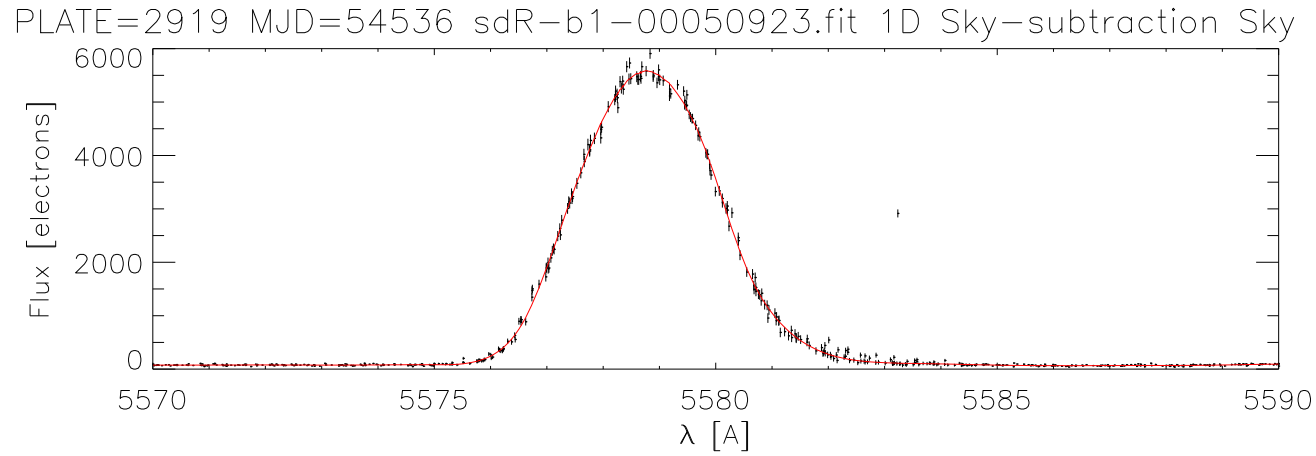

4046.5600
nfib1 34
nfib2 34
stdev 0.137
extra −0.19
4358.3300
nfib1 34
nfib2 34
stdev 0.046
extra −0.26
5460.9400
nfib1 34
nfib2 34
stdev 0.039
extra −0.14
5577.3390
nfib1 34
nfib2 34
stdev 0.019
extra −0.10
5889.9500
nfib1 34
nfib2 34
stdev 0.031
extra −0.00
5895.9240
nfib1 34
nfib2 34
stdev 0.037
extra 0.00
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

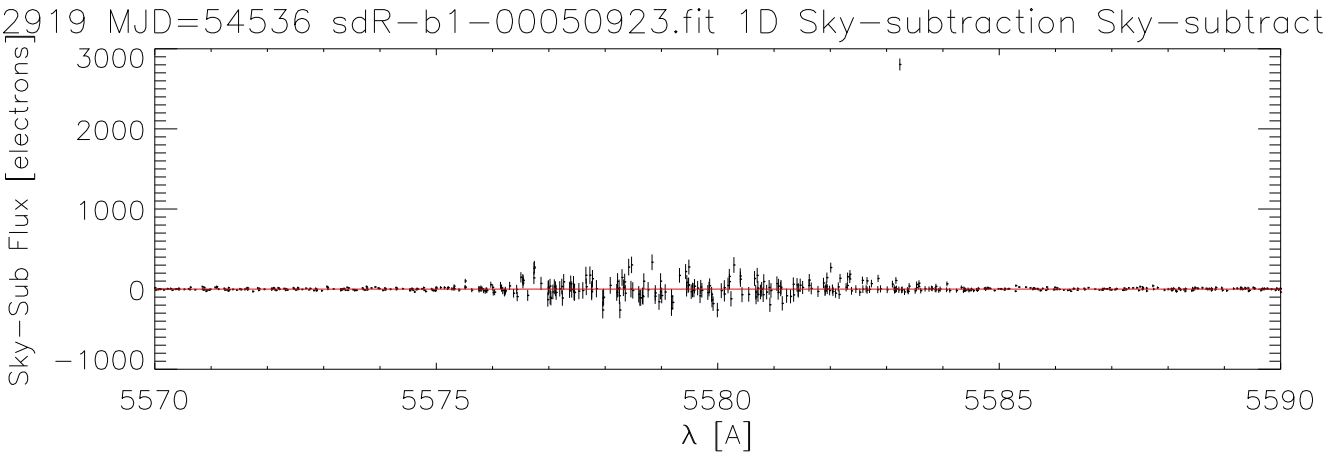

0.0
−0.1
−0.2
−0.3
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

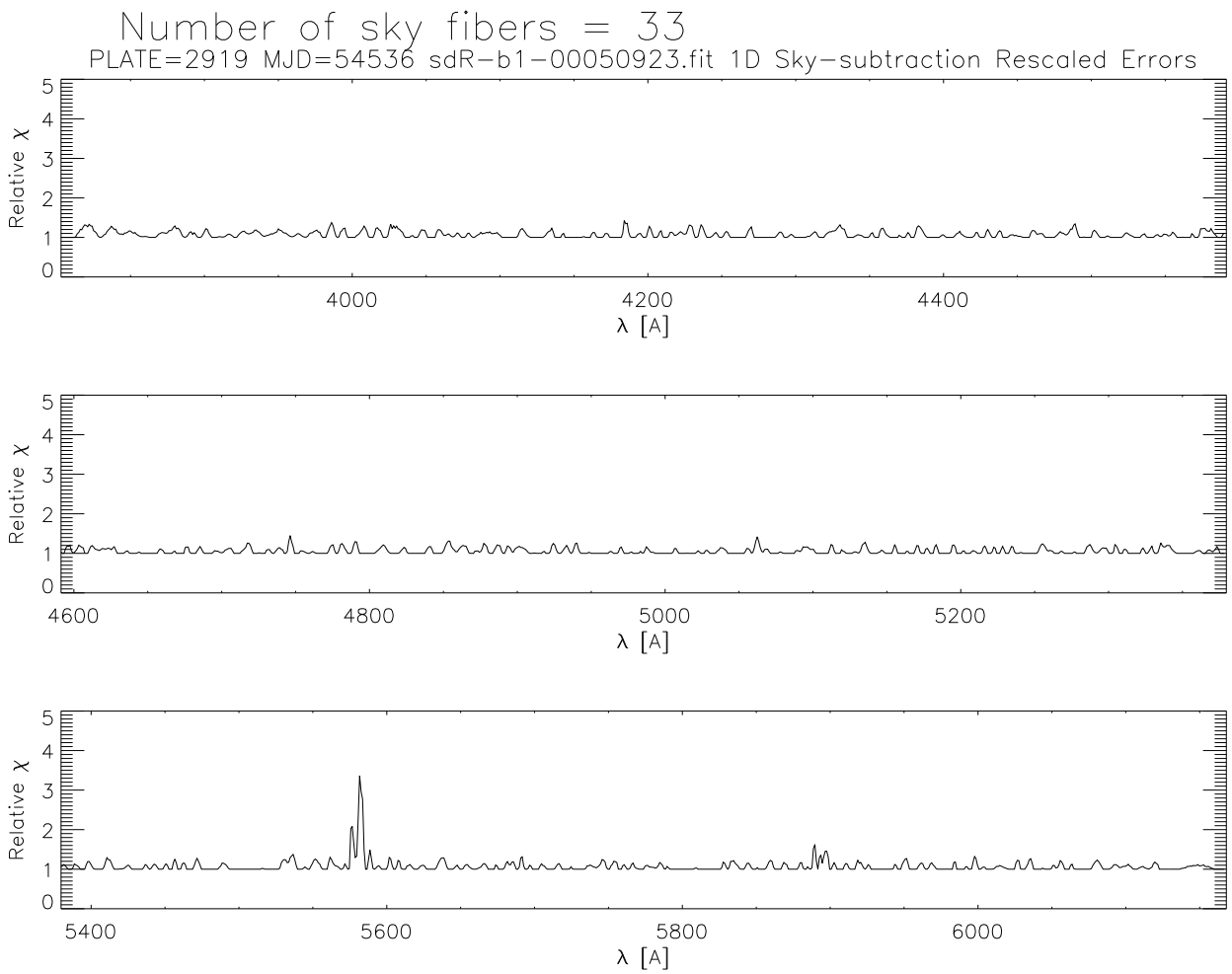
es= −0.0001

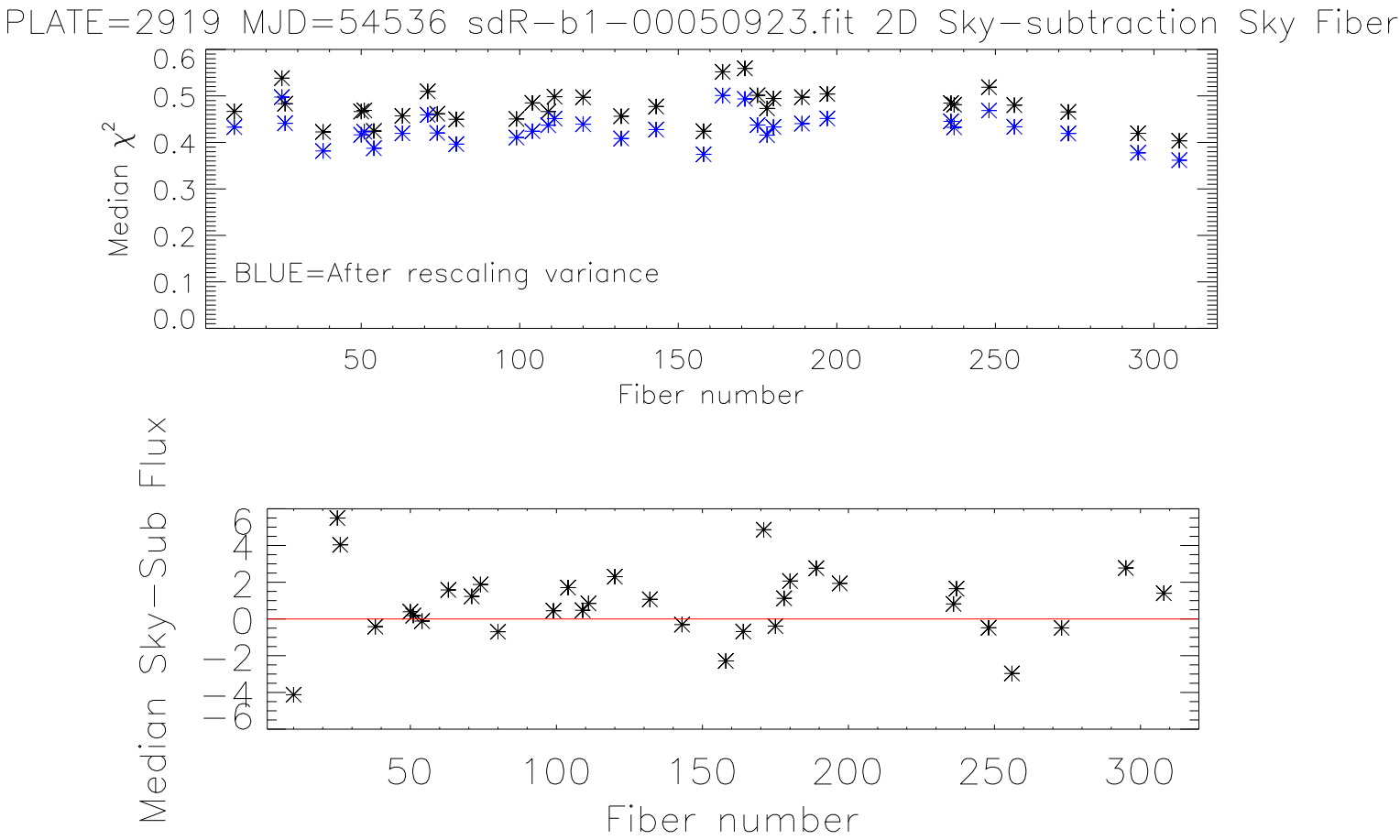

PLATE=2919 MJD=54536 Smooth superflat for sdR−b1−00050923.fit
1.5
1.0
0.5
0.0
1.020
1.015
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

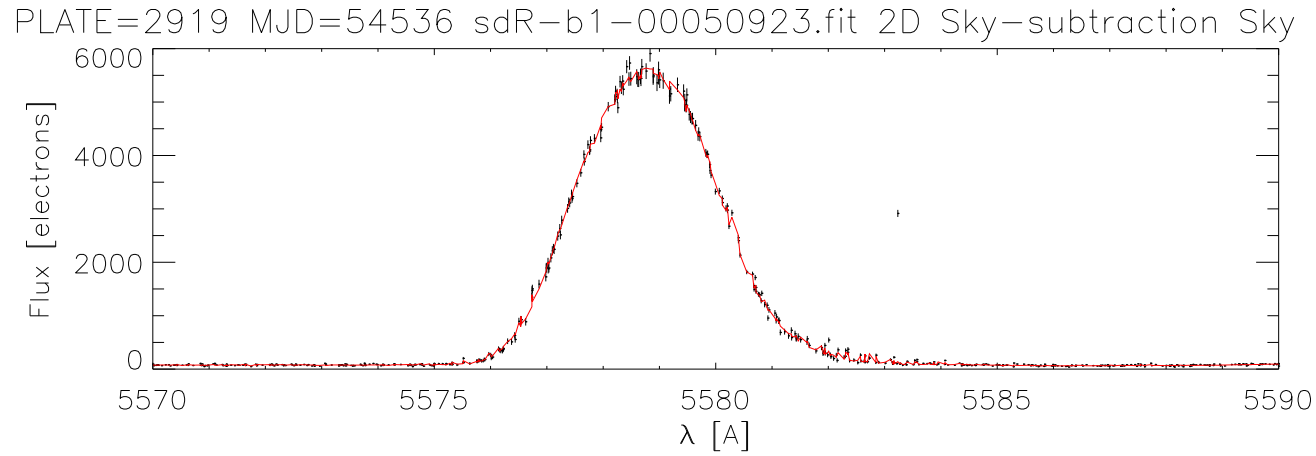

PLATE=2919 MJD=54536 sdR-b1-00050923.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

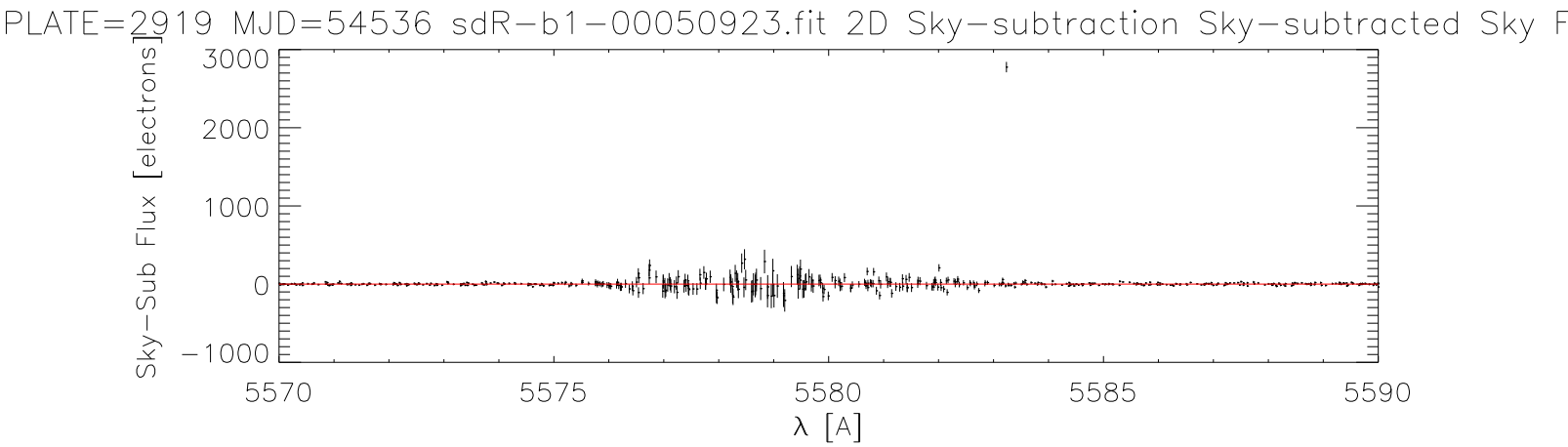

PLATE=2919 MJD=54536 sdR-b1-00050923.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

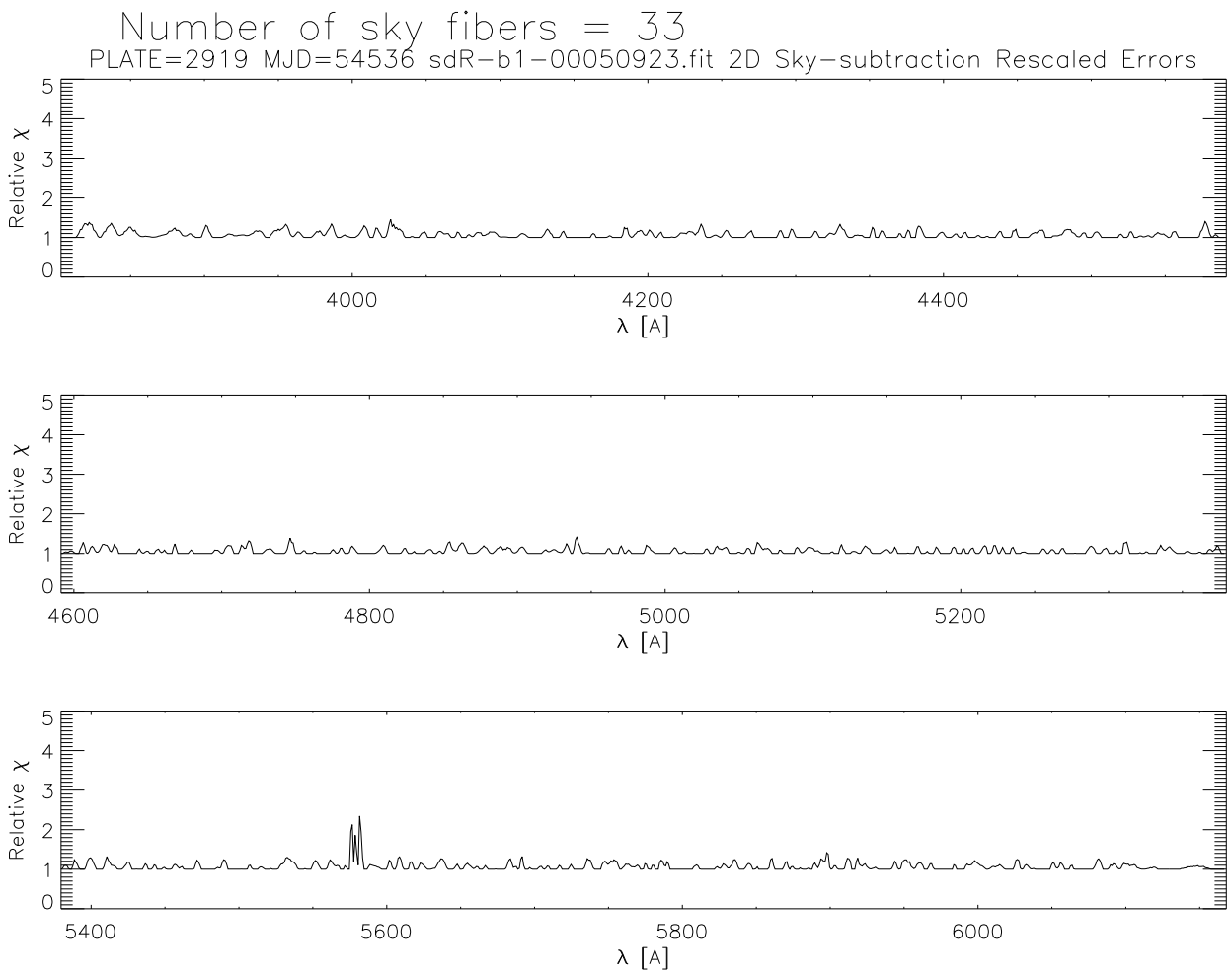

PLATE=2919 MJD=54536 sdR-b1-00050923.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

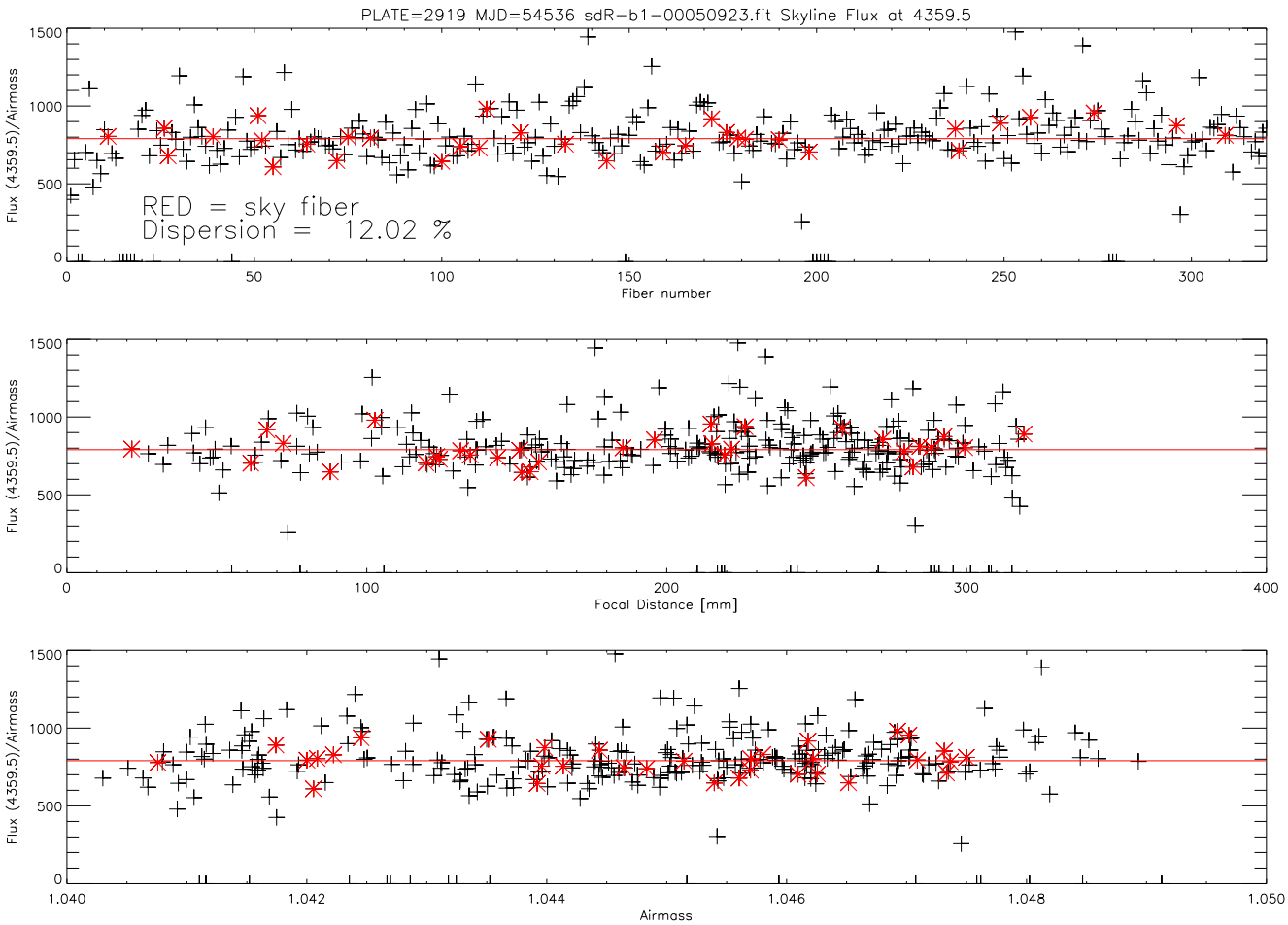

Number of sky fibers = 33
PLATE=2919 MJD=54536 sdR-b1-00050923.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

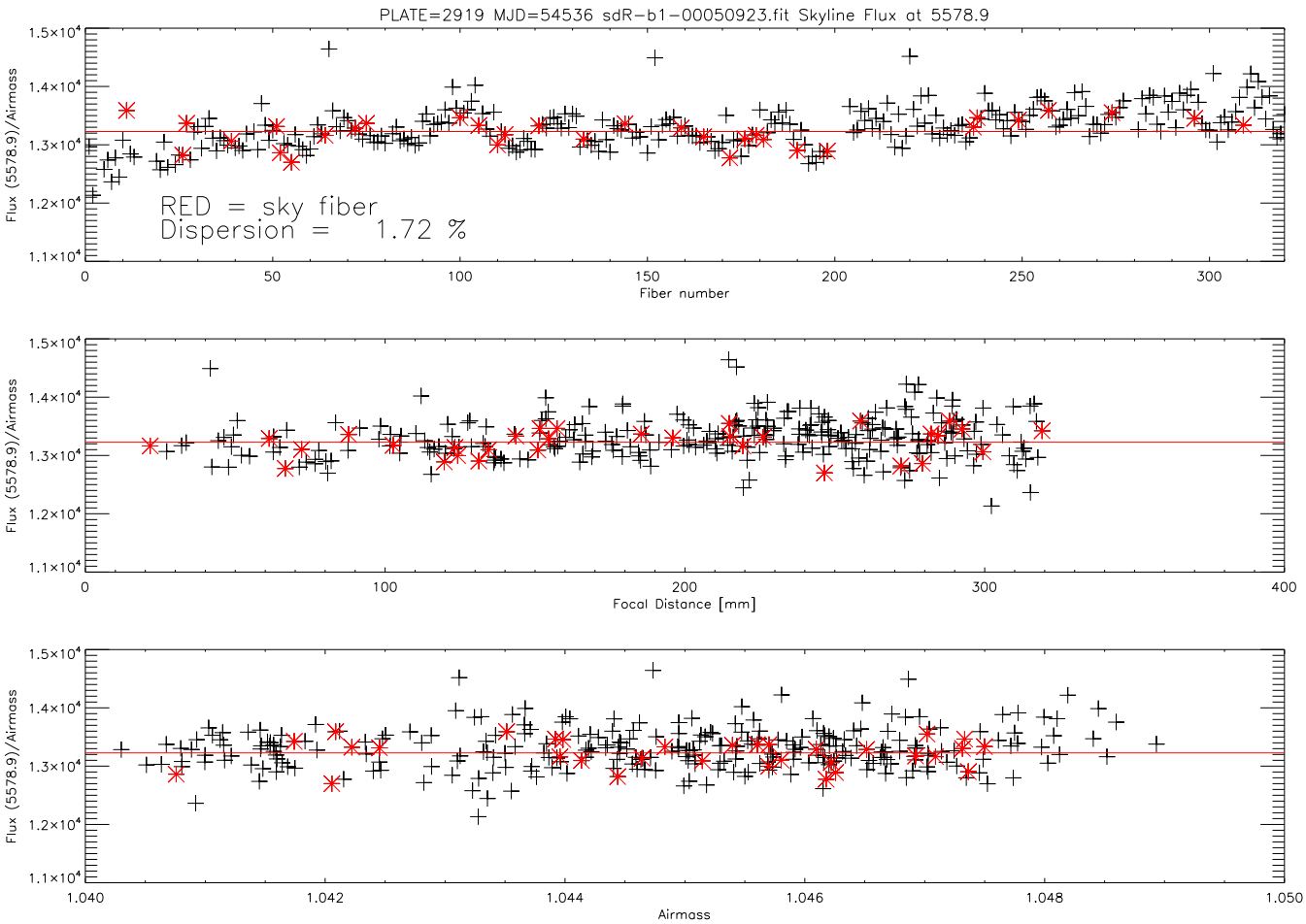

PLATE=2919 MJD=54536 sdR-b1-00050923.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

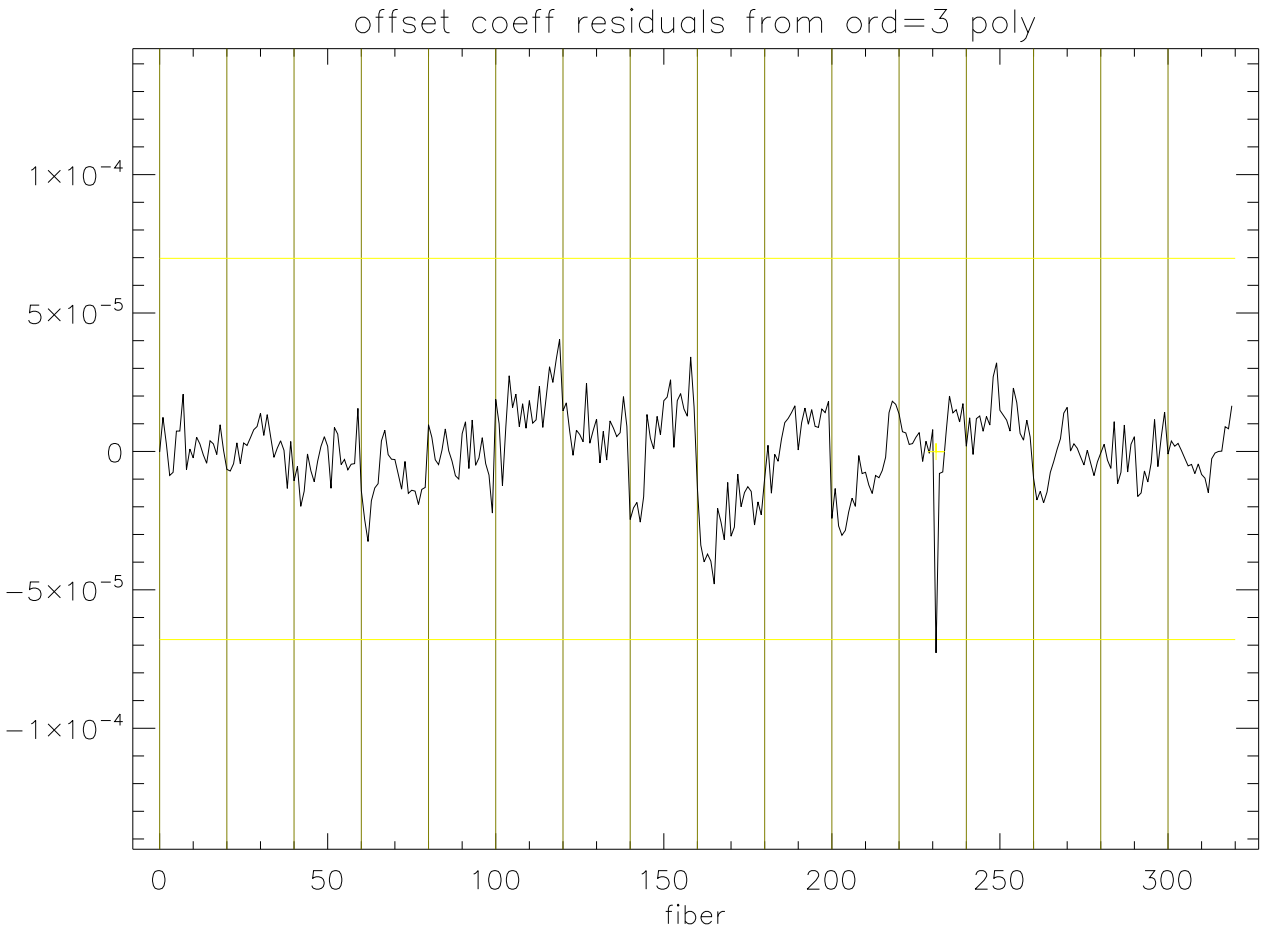

PLATE=2919 MJD=54536 sdR-b1-00050923.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

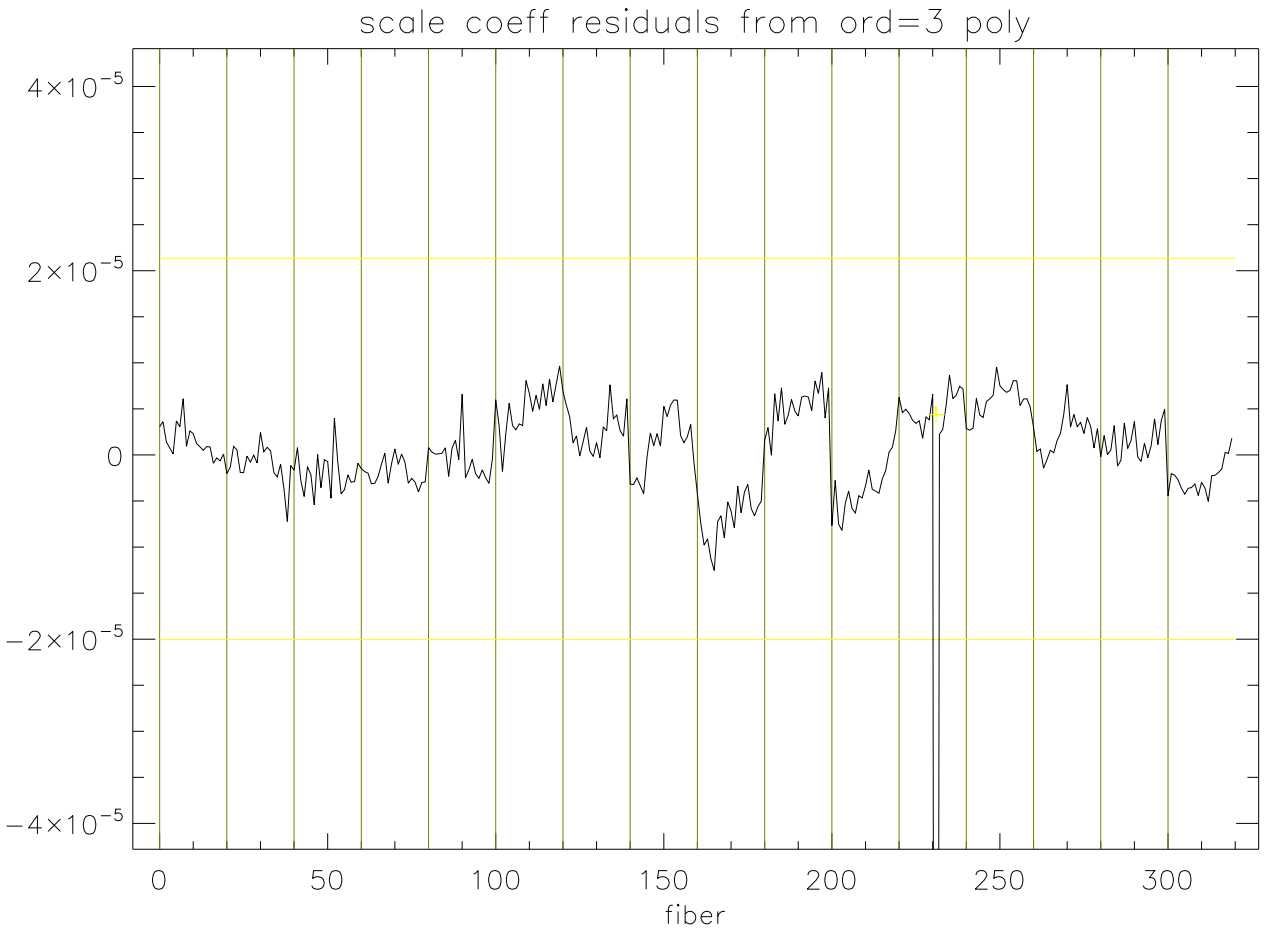

PLATE=2919 MJD=54536 sdR-b1-00050923.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

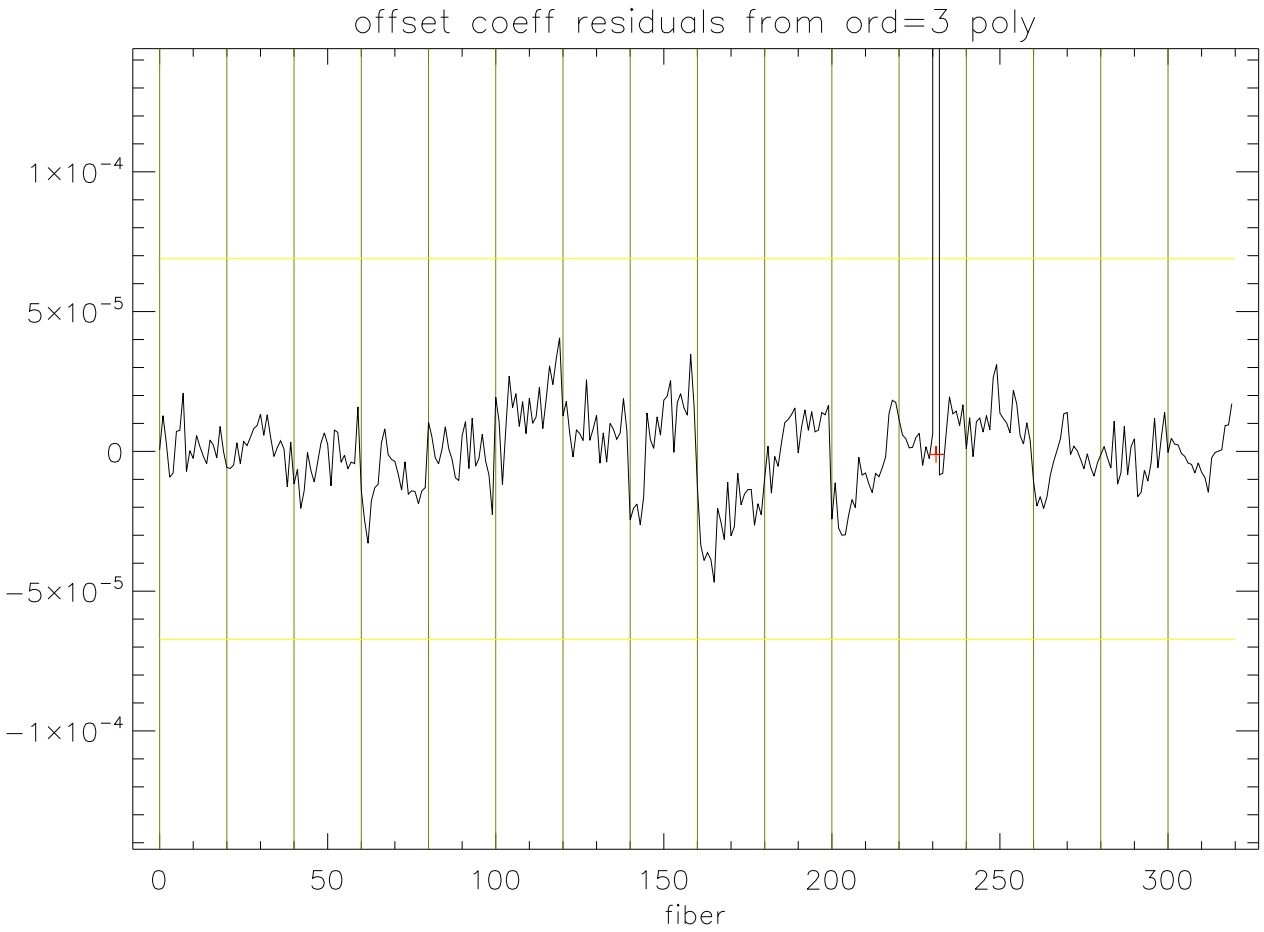

Number of sky fibers = 33
PLATE=2919 MJD=54536 sdR-b1-00050923.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

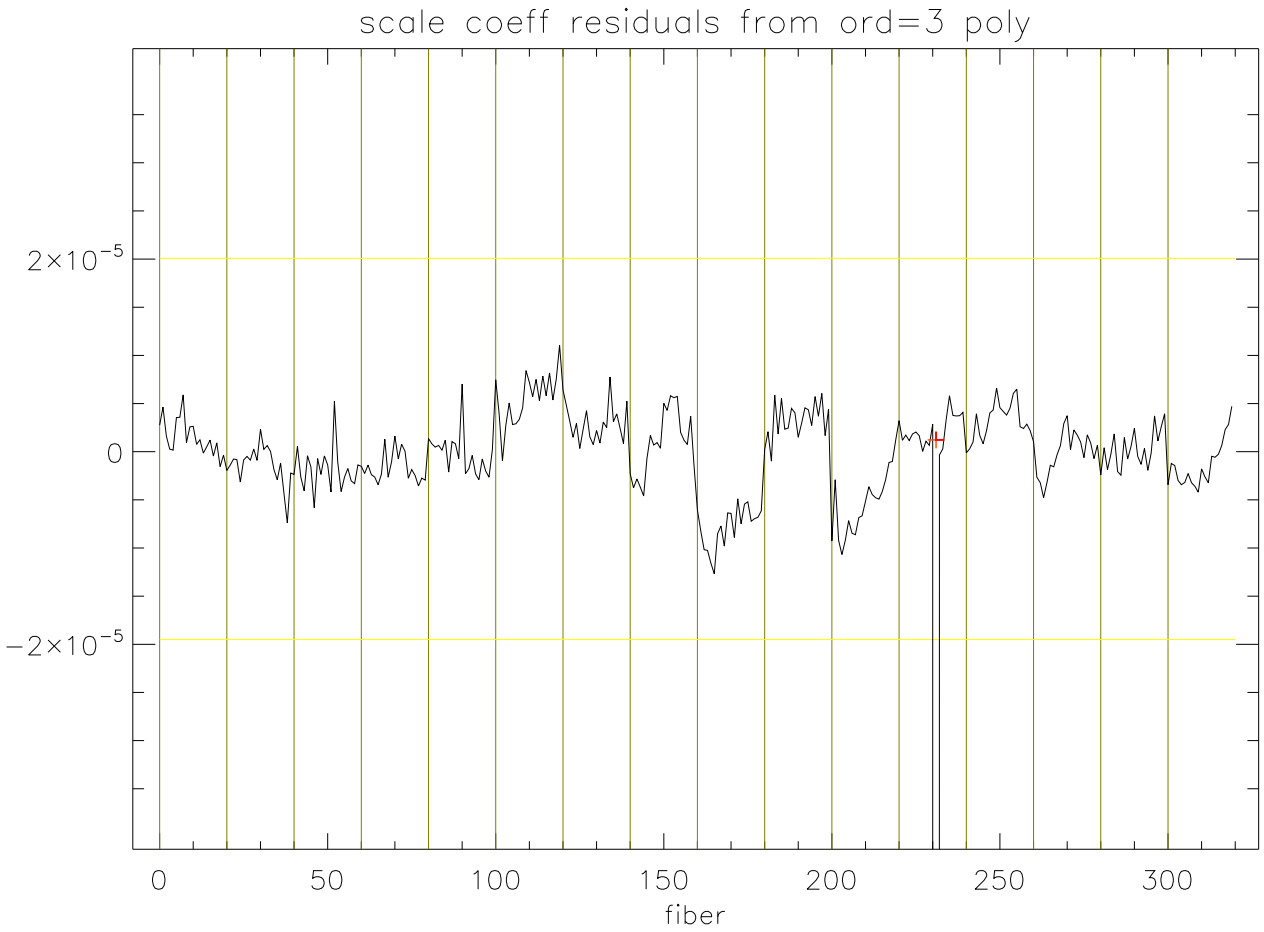

PLATE=2919 MJD=54536 sdR-b1-00050923.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.02 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

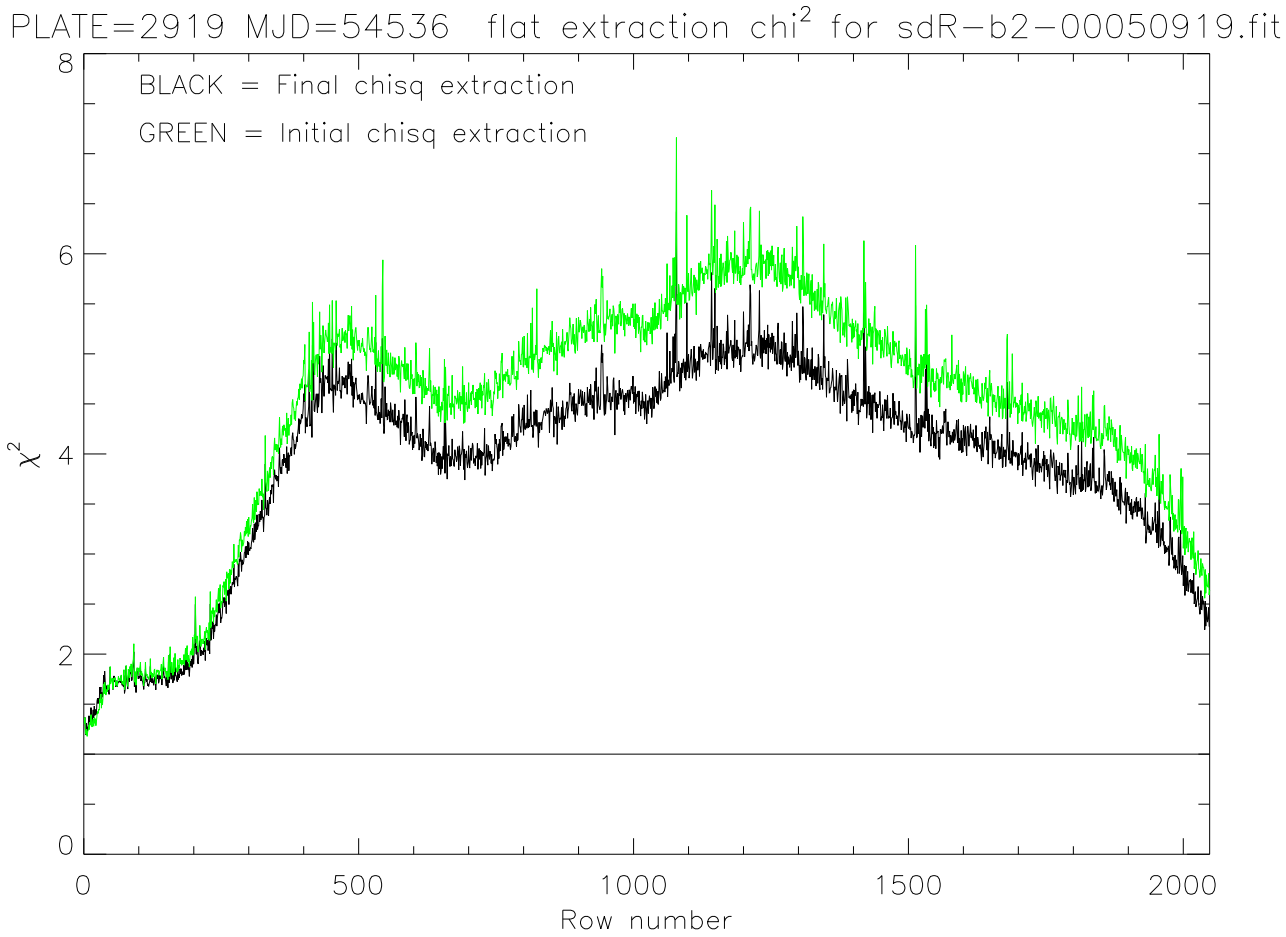

PLATE=2919 MJD=54536 sdR-b1-00050923.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.72 %
Fiber number
Focal Distance [mm]
Airmass

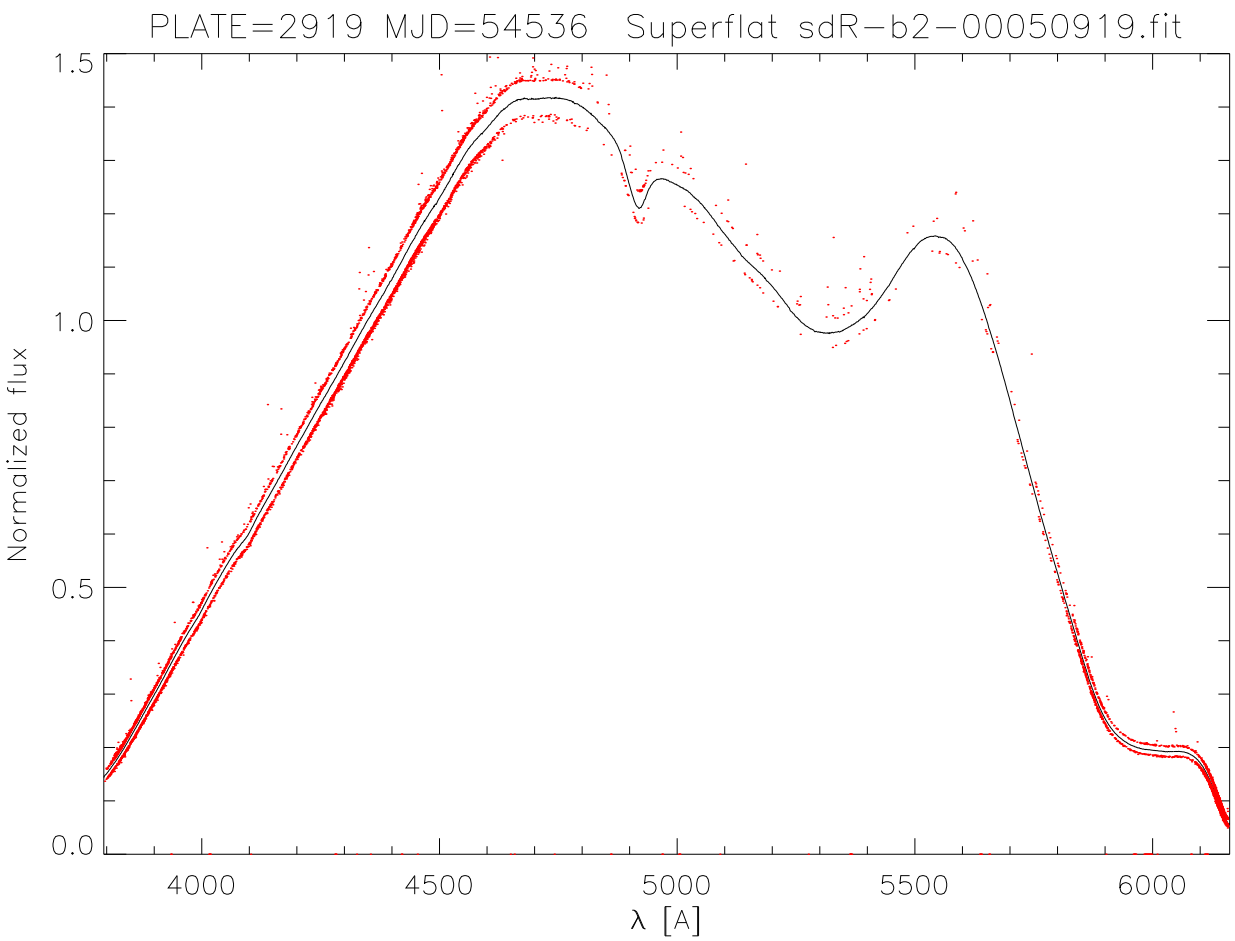

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

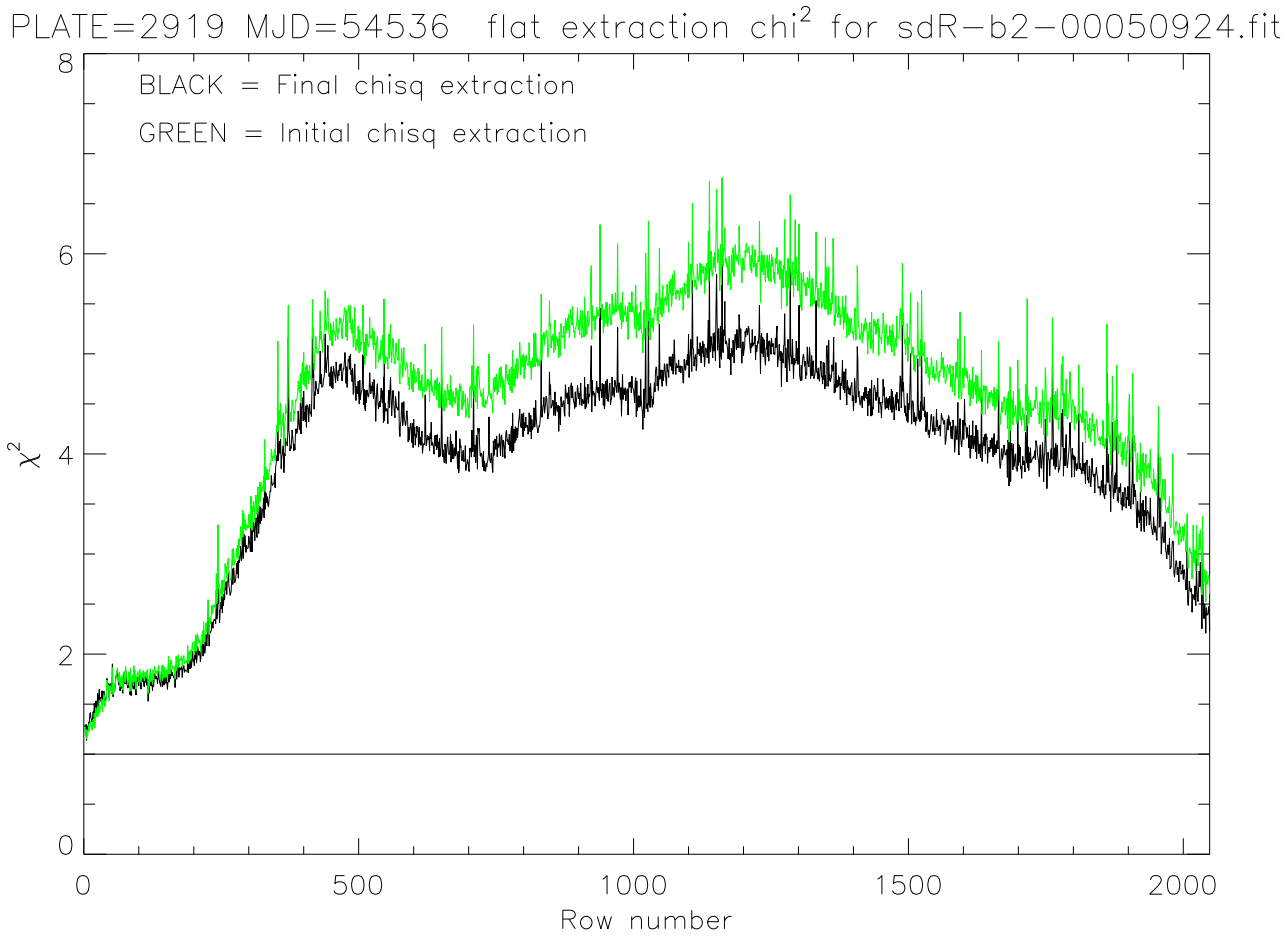

scale coeff residuals from ord=3 poly
4×10^-5
2×10^-5
0
−2×10^-5
−4×10^-5
0
50
100
150
200
250
300
fiber

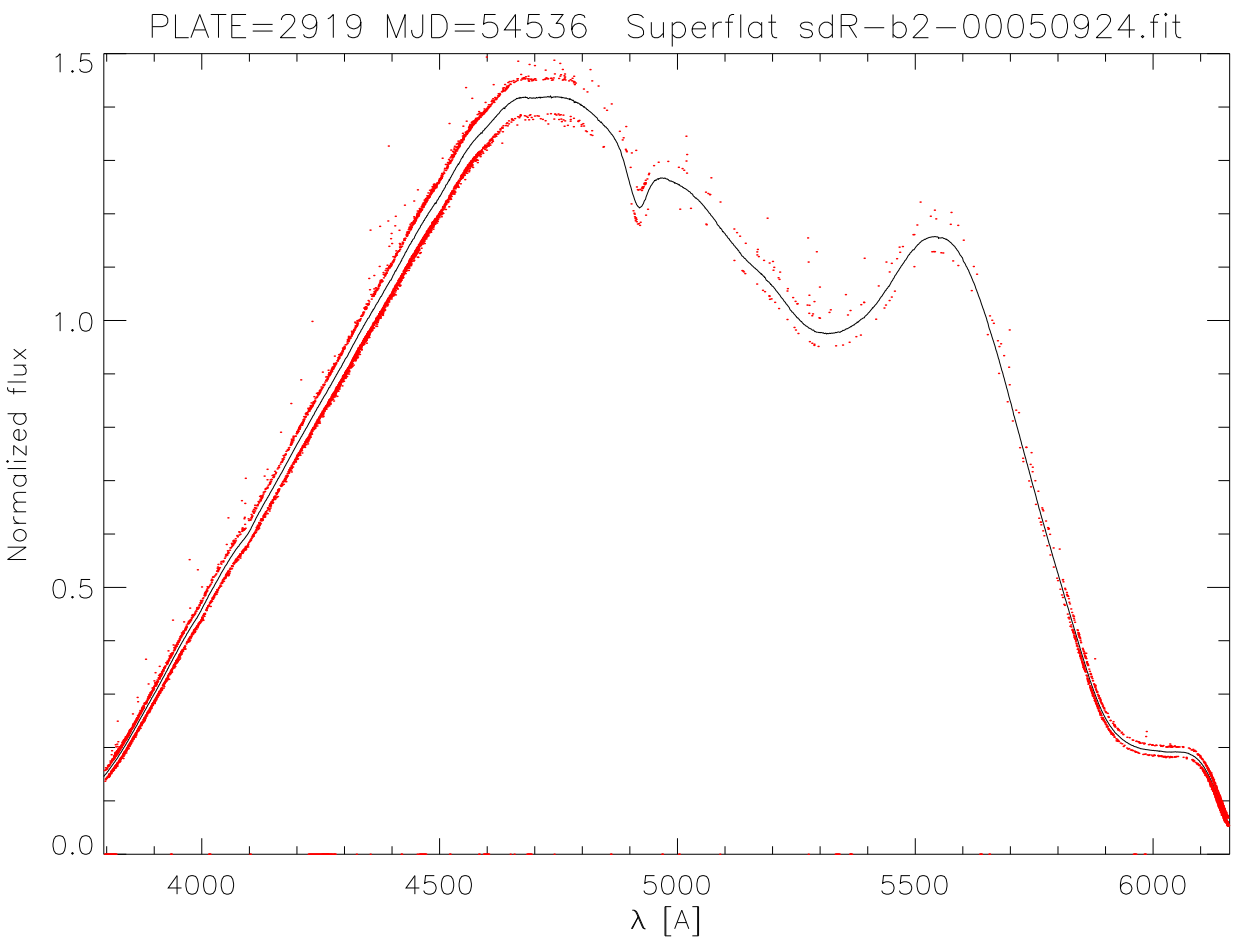

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

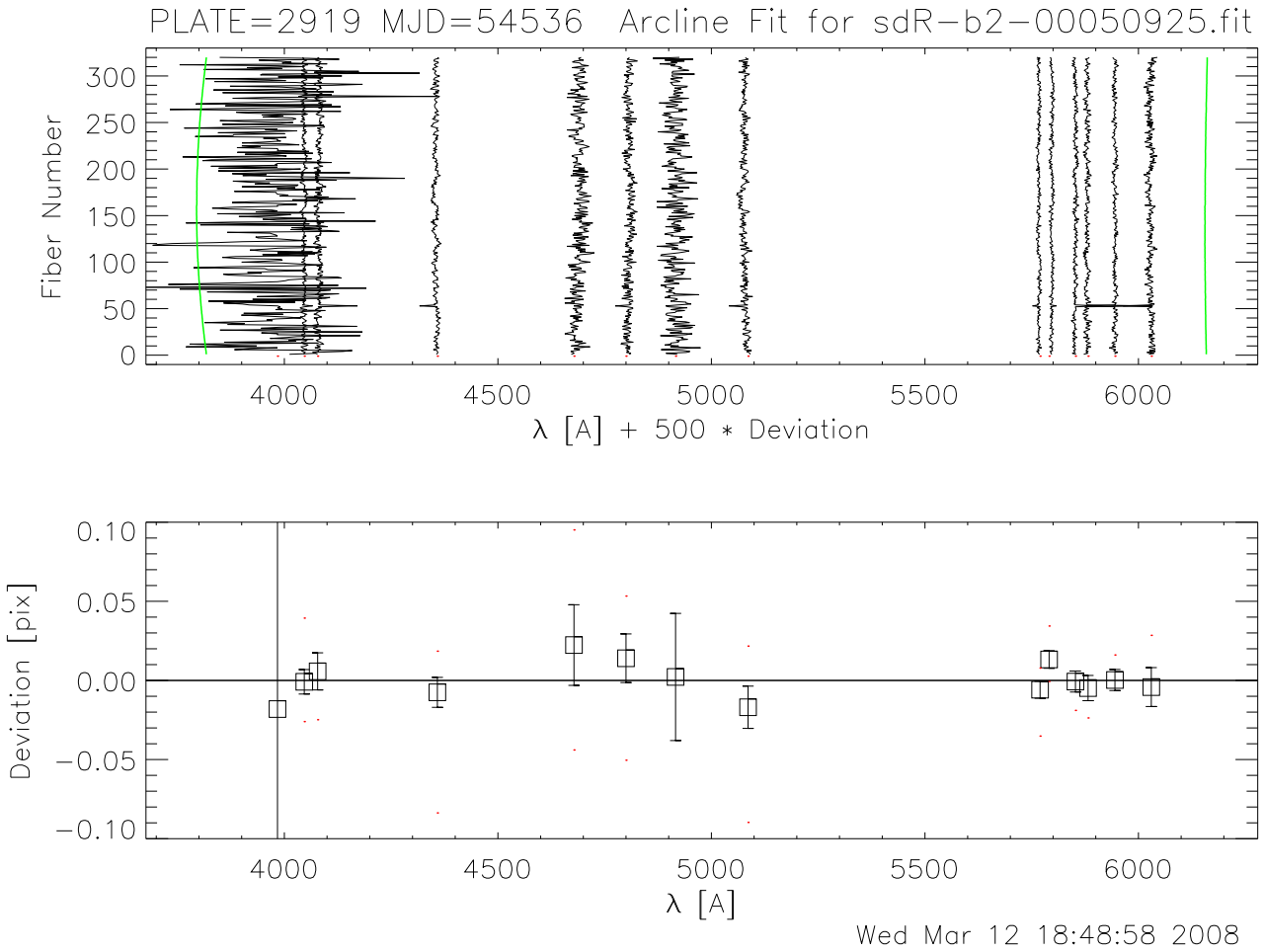

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

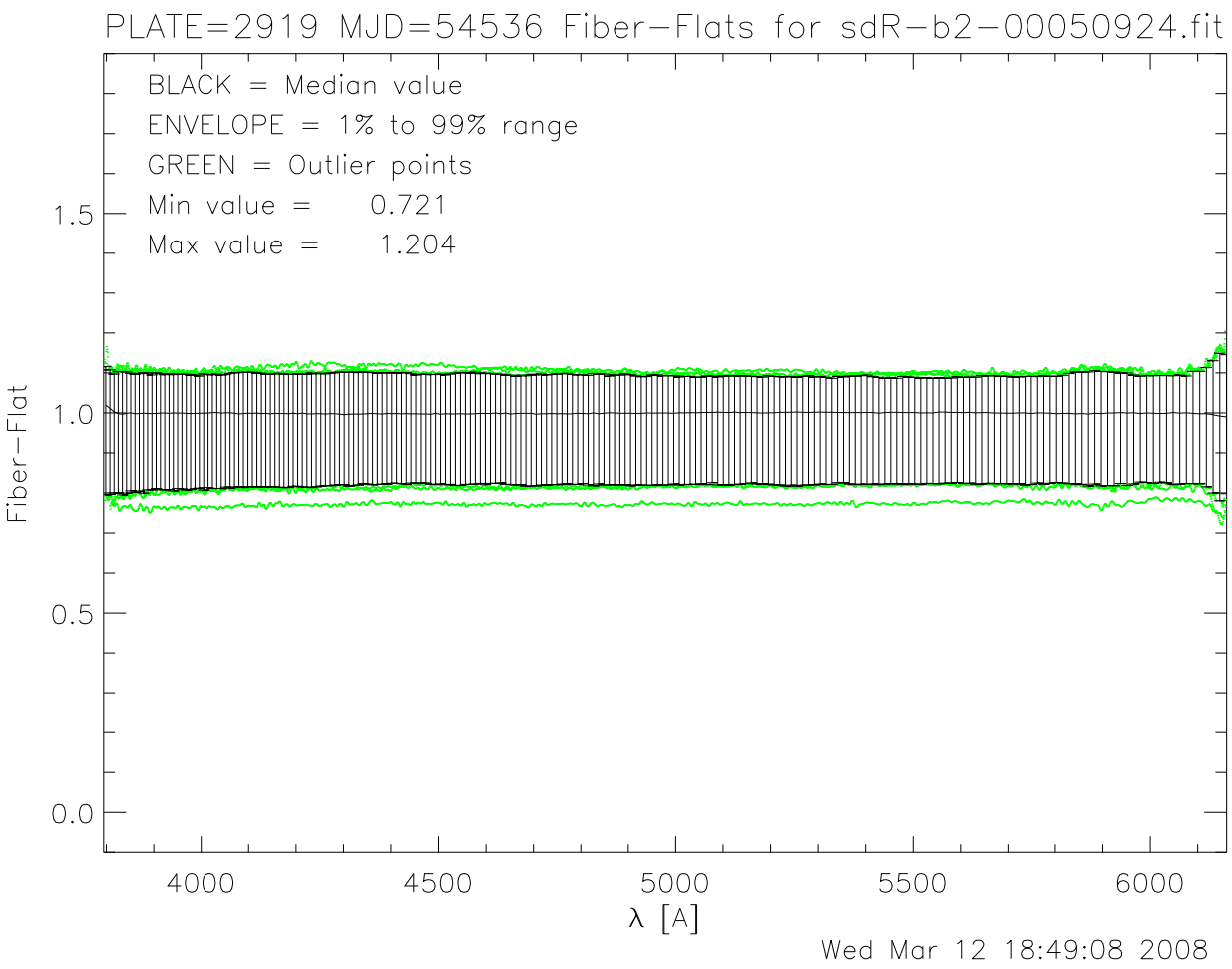

PLATE=2919 MJD=54536 flat extraction chi^2 for sdR−b2−00050919.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

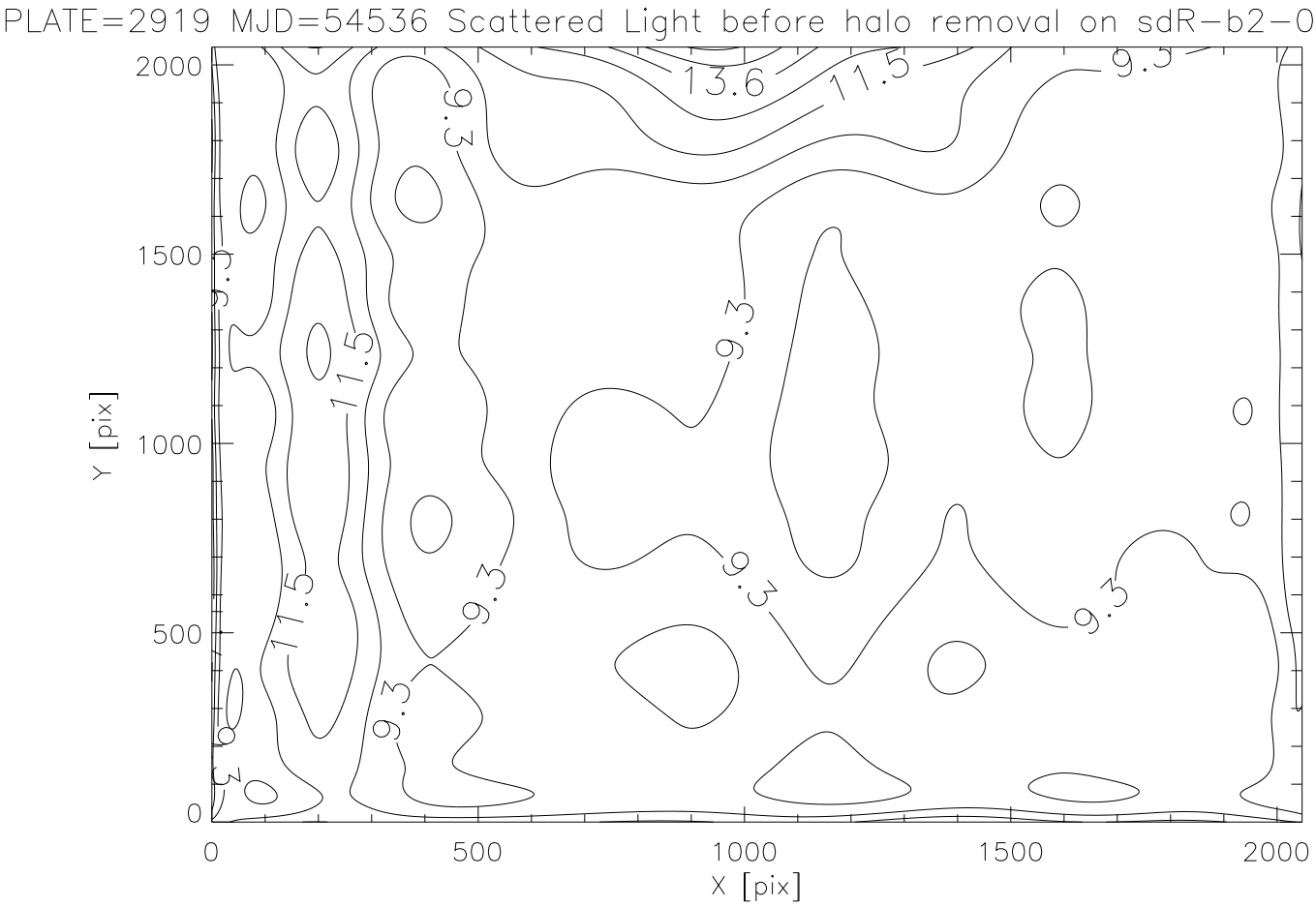

PLATE=2919 MJD=54536 Superflat sdR-b2-00050919.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

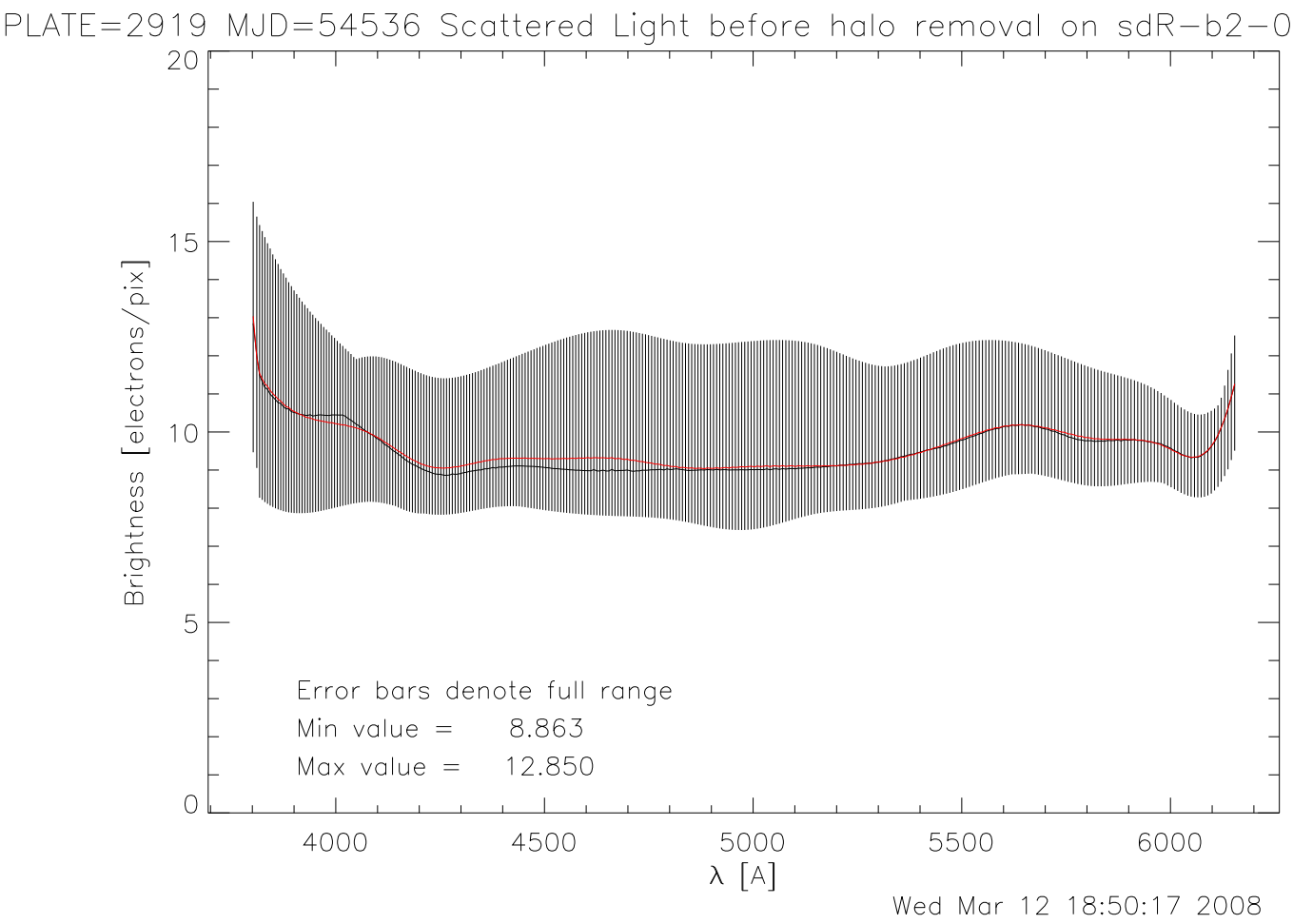

PLATE=2919 MJD=54536 flat extraction chi^2 for sdR−b2−00050924.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

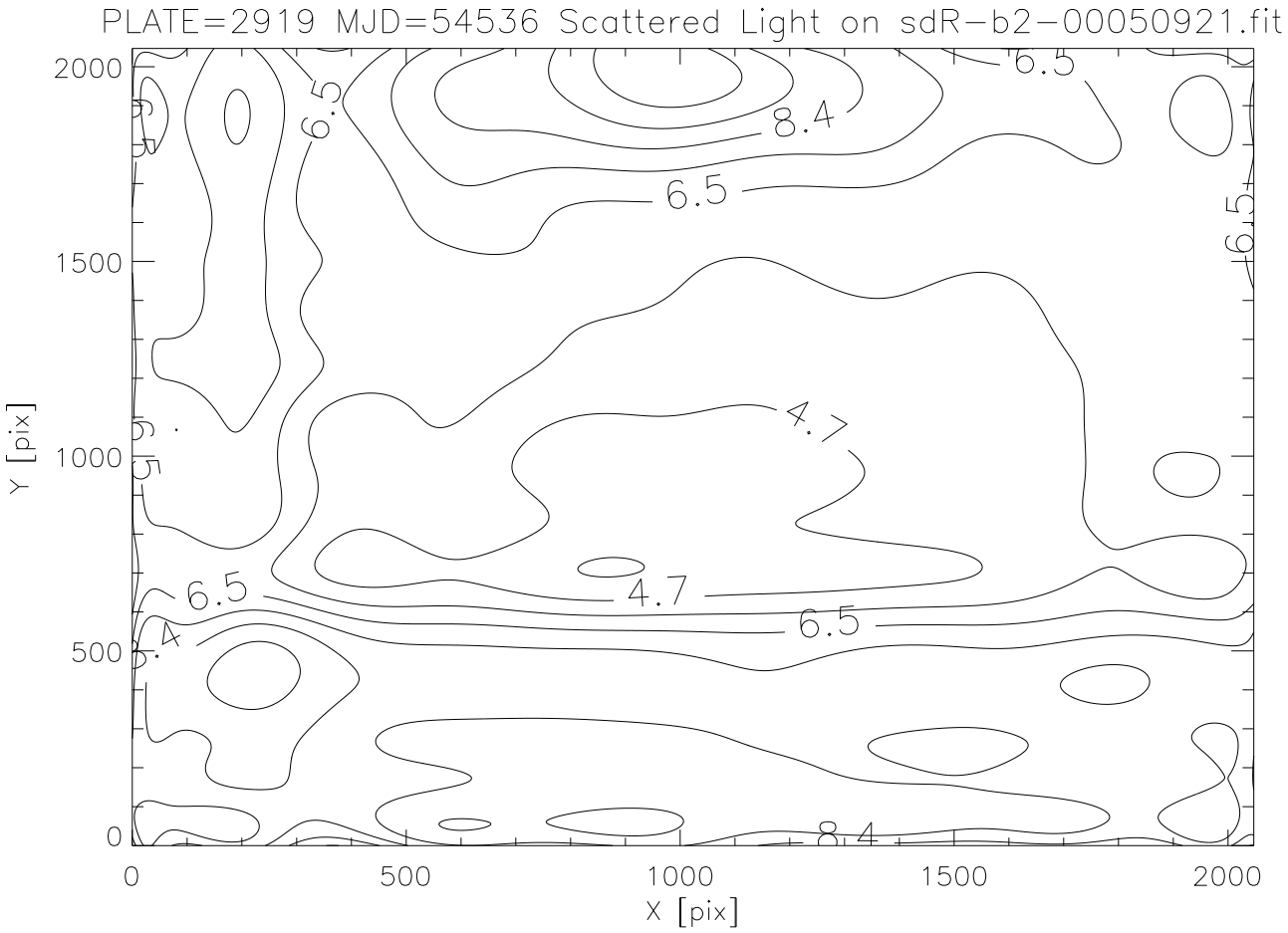

PLATE=2919 MJD=54536 Superflat sdR-b2-00050924.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

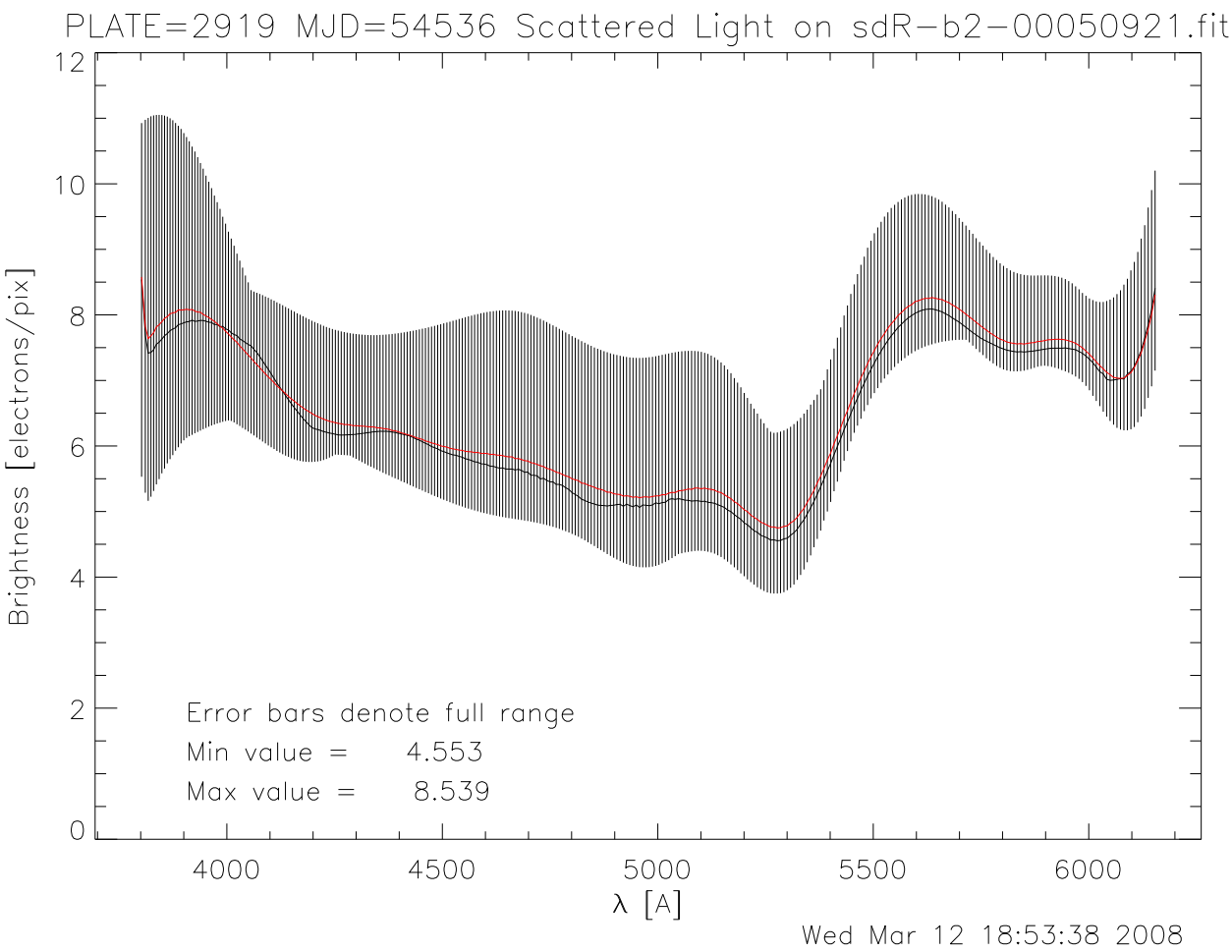

PLATE=2919 MJD=54536 Arcline Fit for sdR-b2-00050925.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:48:58 2008

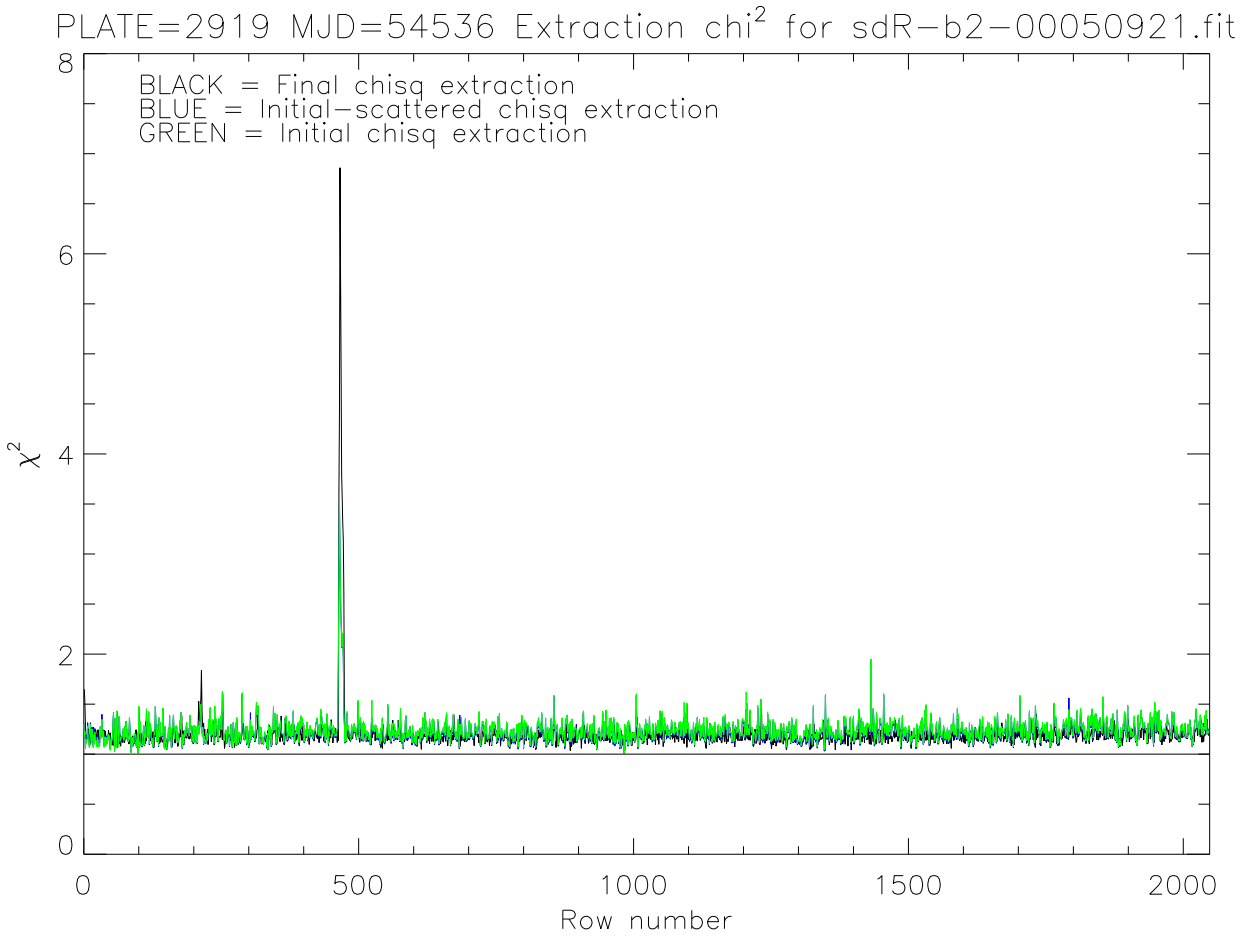

PLATE=2919 MJD=54536 Fiber-Flats for sdR-b2-00050924.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.721
Max value = 1.204
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:49:08 2008

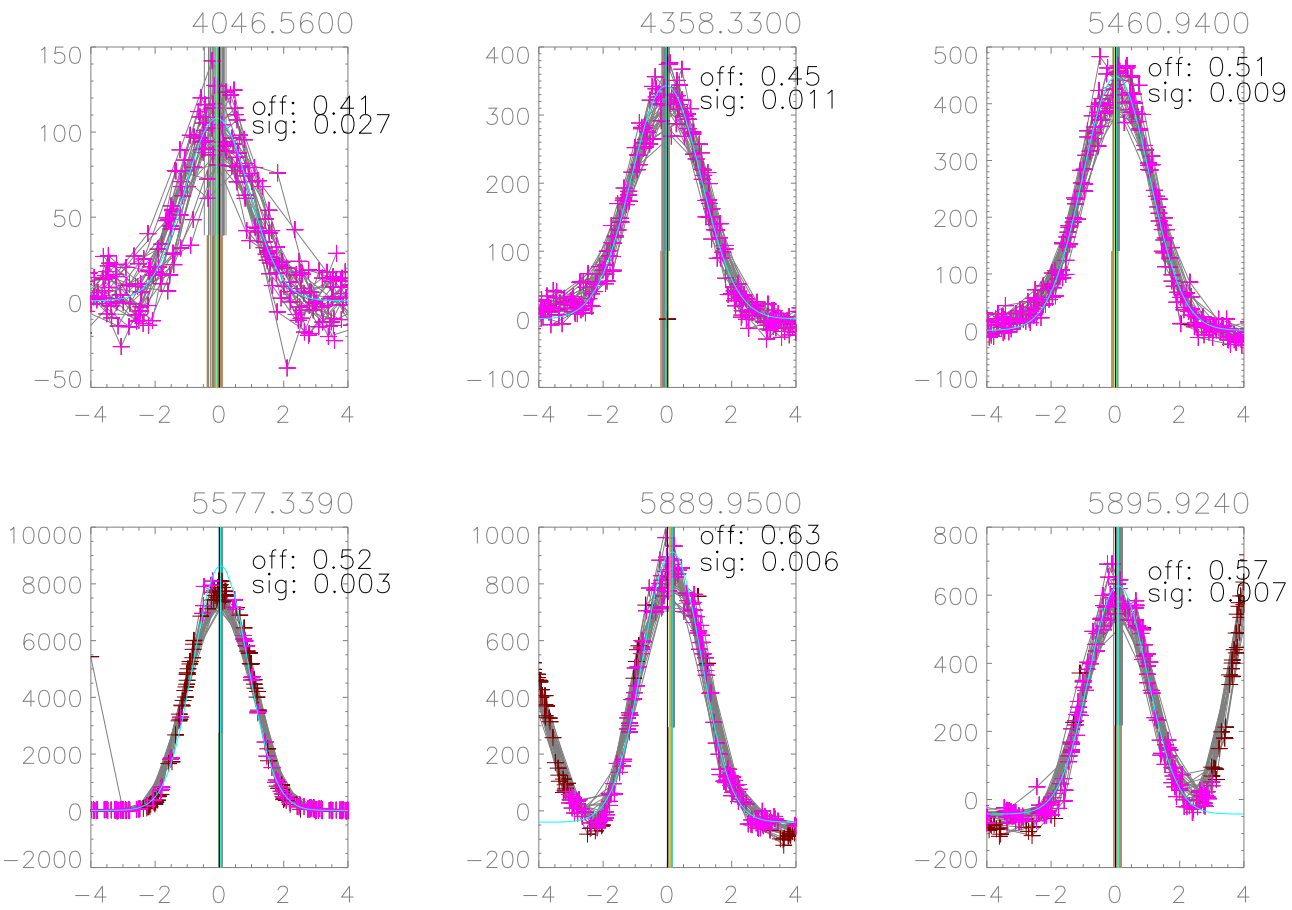

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR−b2−00050921.f
13.6
11.5
9.3
0
Y [pix]
X [pix]
0
500
1000
1500
2000

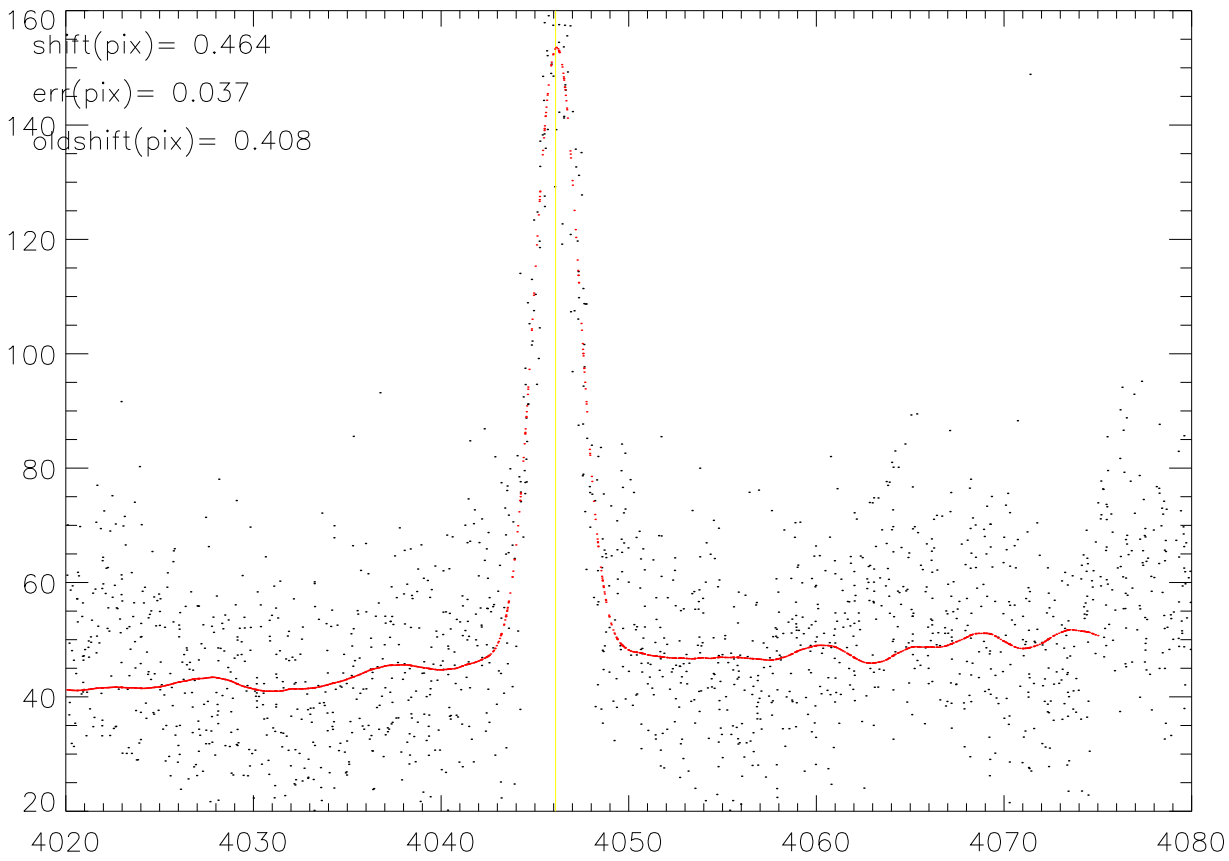

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR-b2-00050921.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 8.863
Max value = 12.850
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:50:17 2008

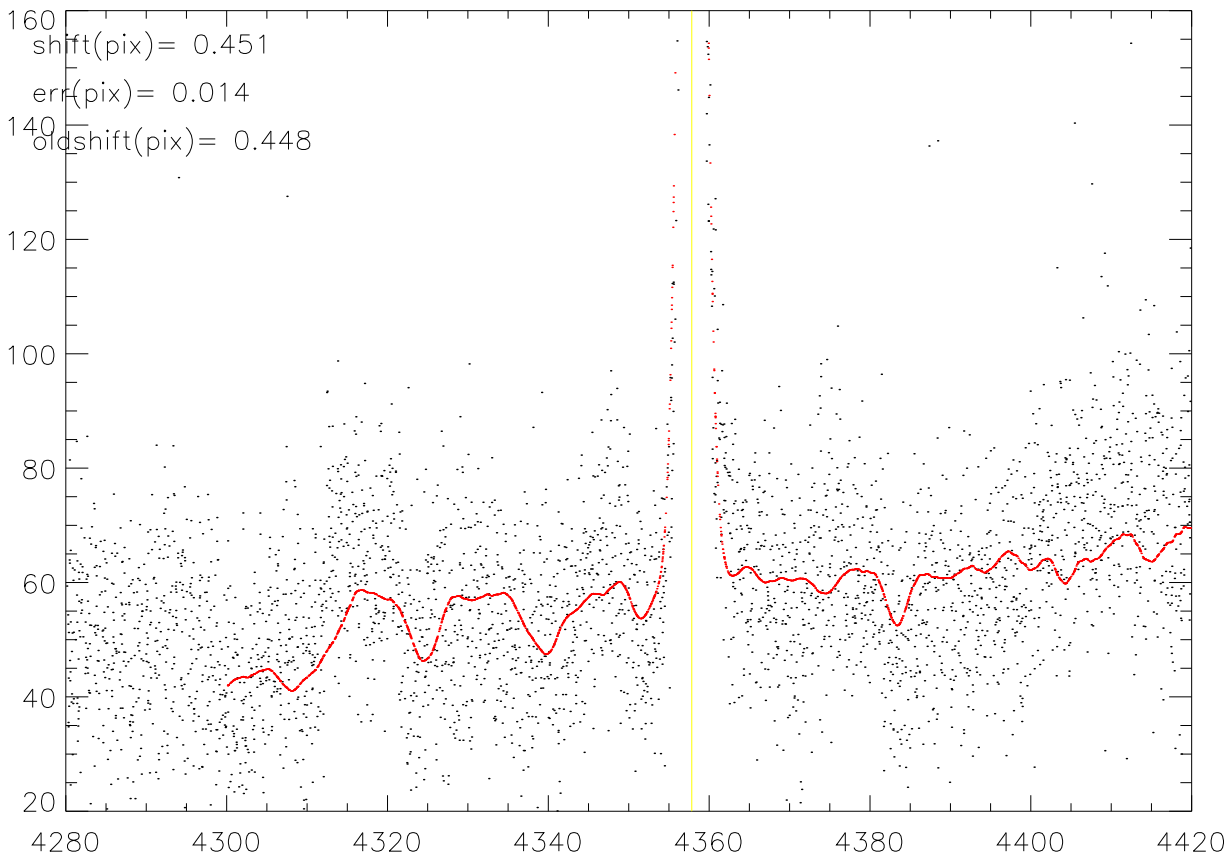

PLATE=2919 MJD=54536 Scattered Light on sdR-b2-00050921.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.5
8.4
4.7
6.5
6.5
6.5
4.7
6.5
8.4
8.4

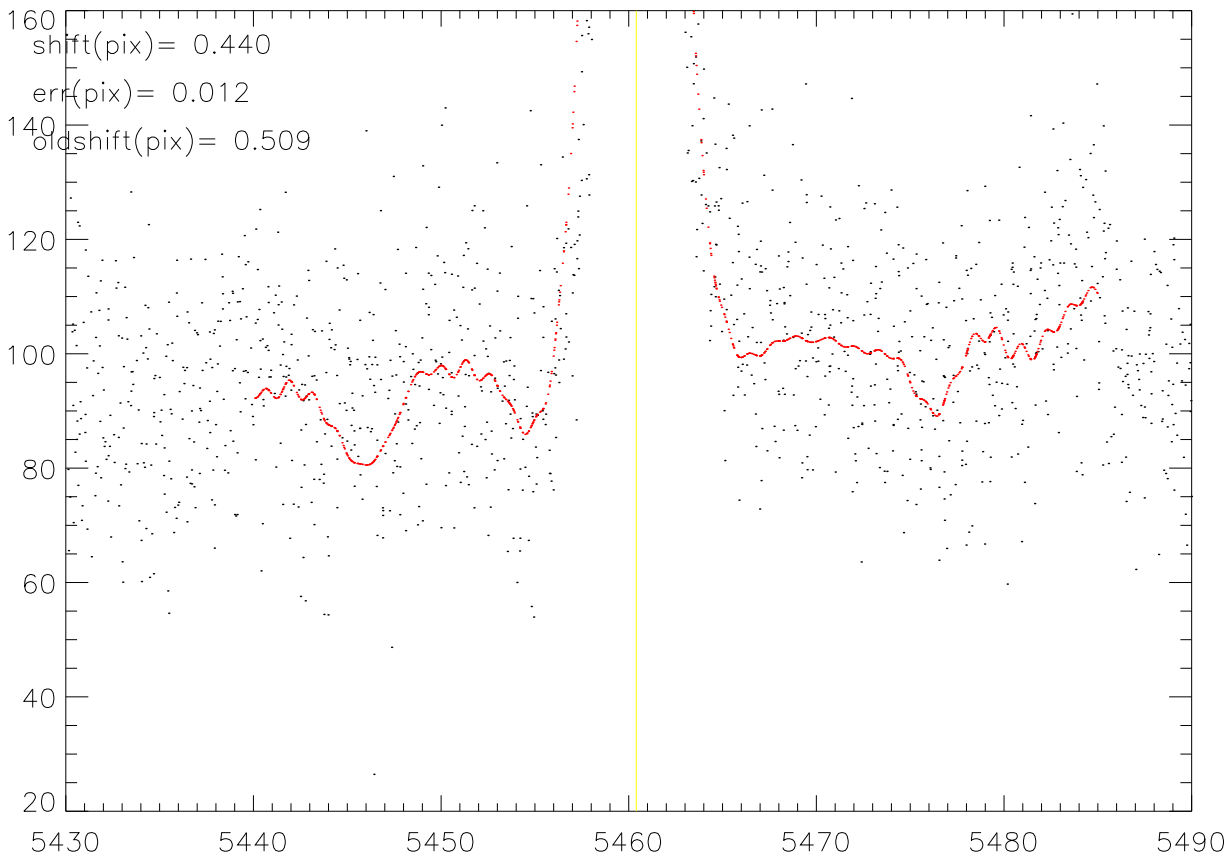

PLATE=2919 MJD=54536 Scattered Light on sdR-b2-00050921.fit
Brightness [electrons/pix]
12
10
8
6
4
2
0
Error bars denote full range
Min value = 4.553
Max value = 8.539
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:53:38 2008

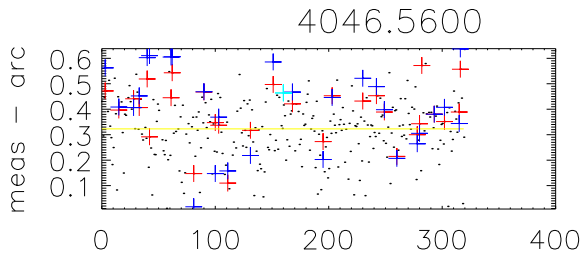

PLATE=2919 MJD=54536 Extraction chi^2 for sdR-b2-00050921.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

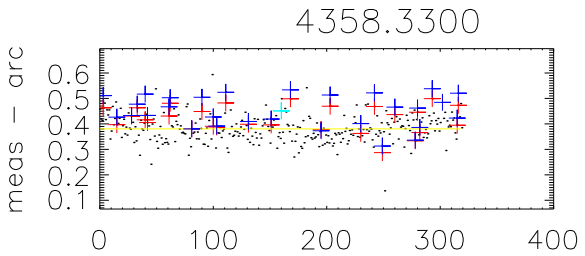

4046.5600
off: 0.41
sig: 0.027
4358.3300
off: 0.45
sig: 0.011
5460.9400
off: 0.51
sig: 0.009
5577.3390
off: 0.52
sig: 0.003
5889.9500
off: 0.63
sig: 0.006
5895.9240
off: 0.57
sig: 0.007

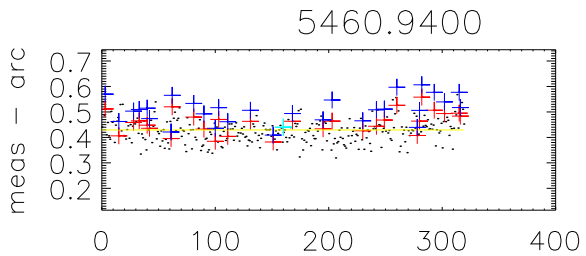

shift(pix)= 0.464
err(pix)= 0.037
oldshift(pix)= 0.408
160
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

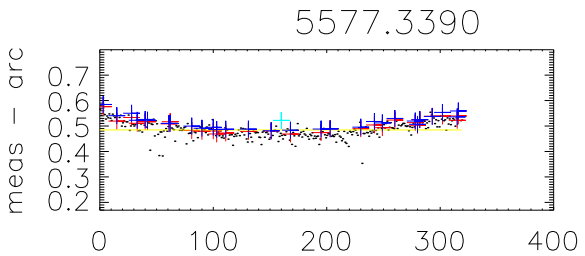

shift(pix)= 0.451
err(pix)= 0.014
oldshift(pix)= 0.448
160
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

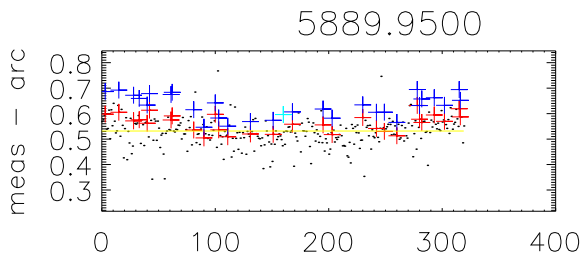

shift(pix)= 0.440
err(pix)= 0.012
oldshift(pix)= 0.509
160
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

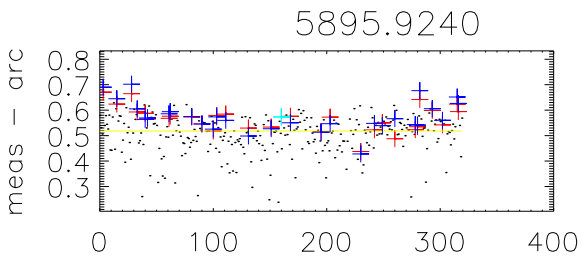

4046.5600
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

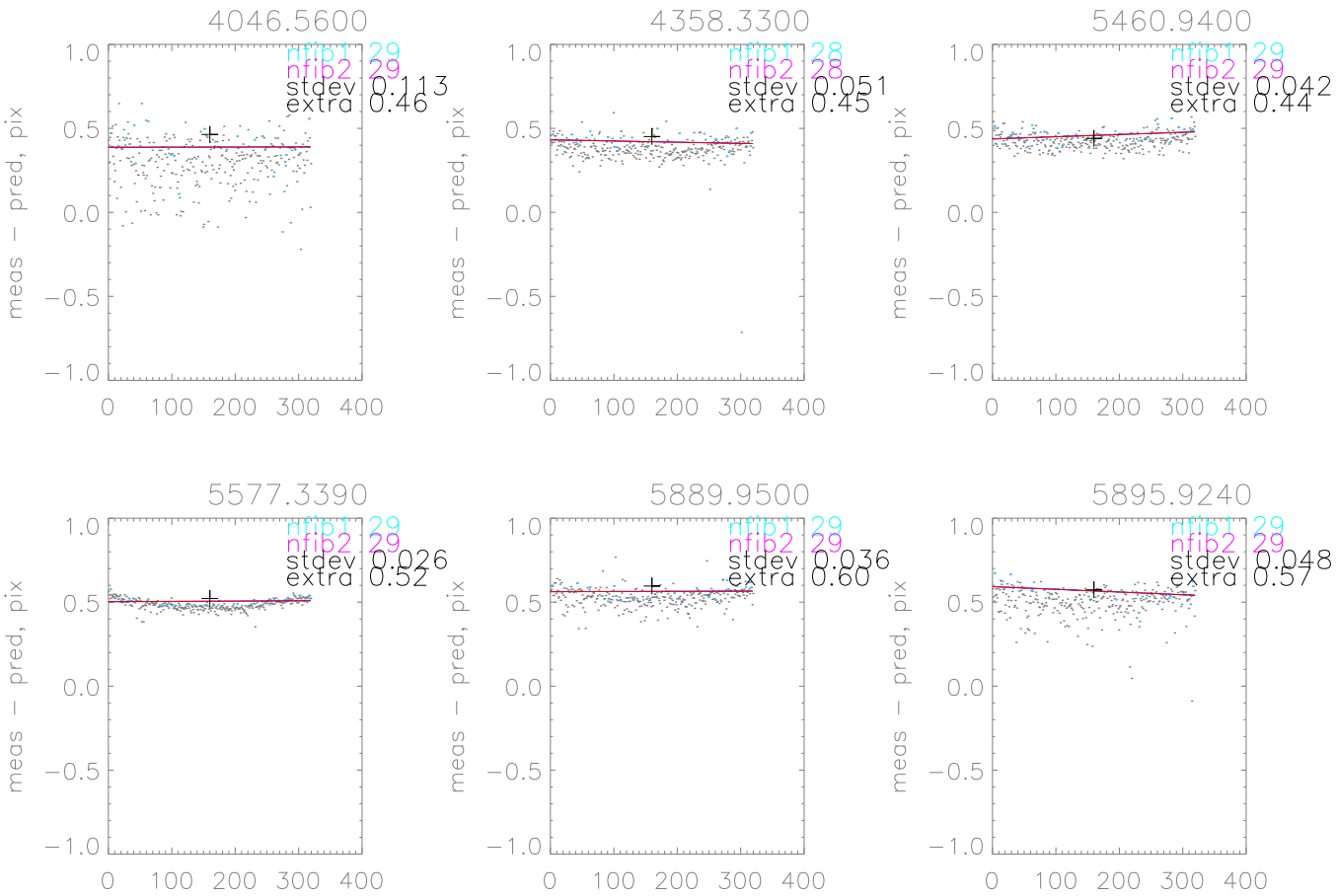

4358.3300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

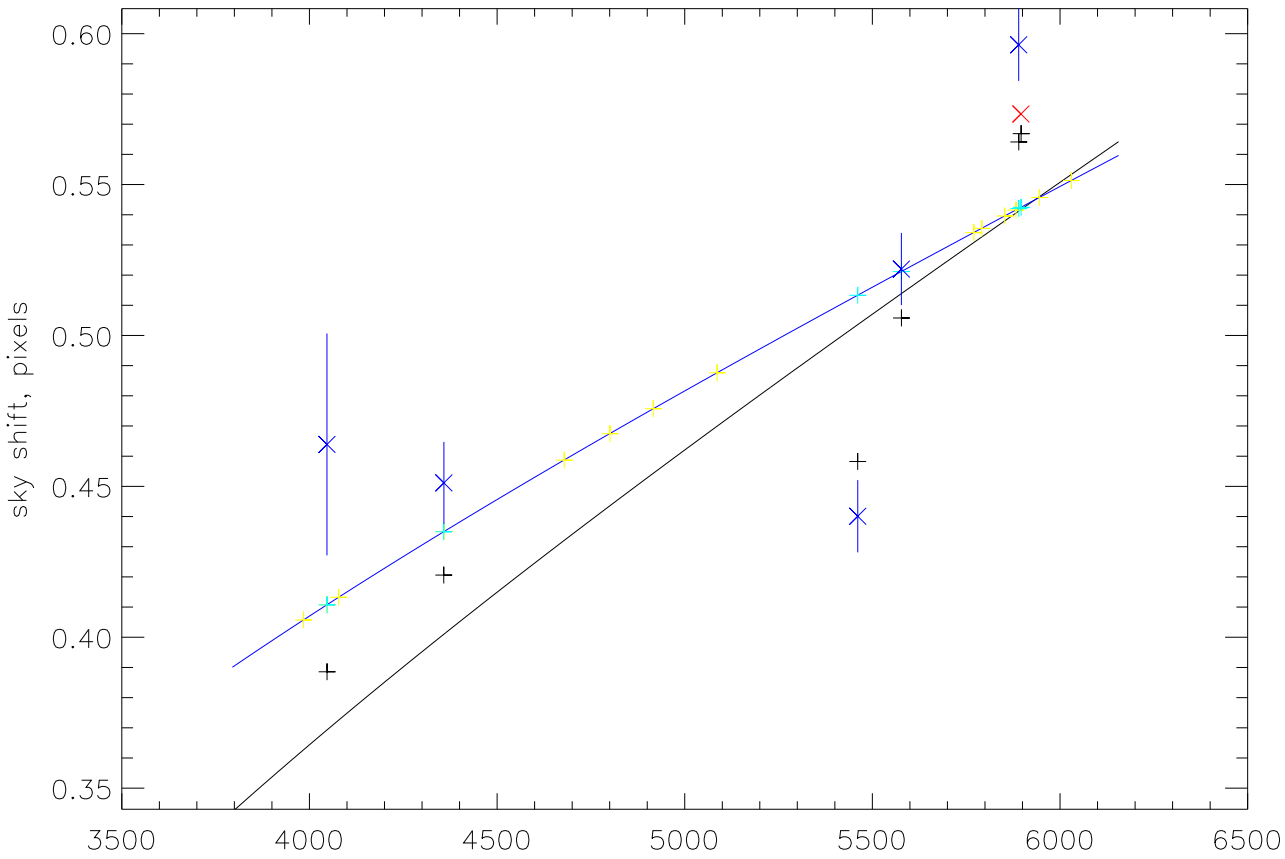

5460.9400
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

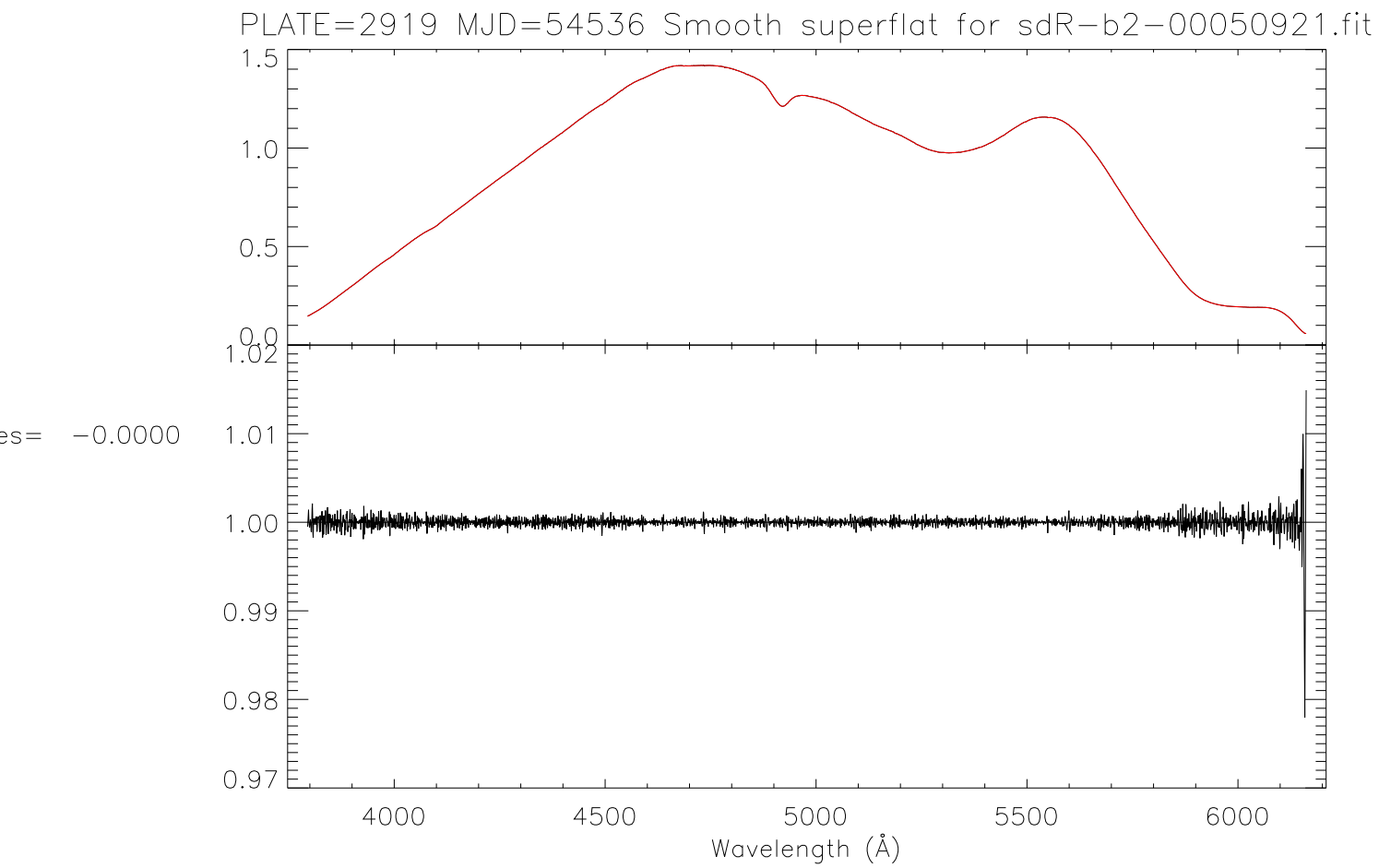

5577.3390
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400


5889.9500
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

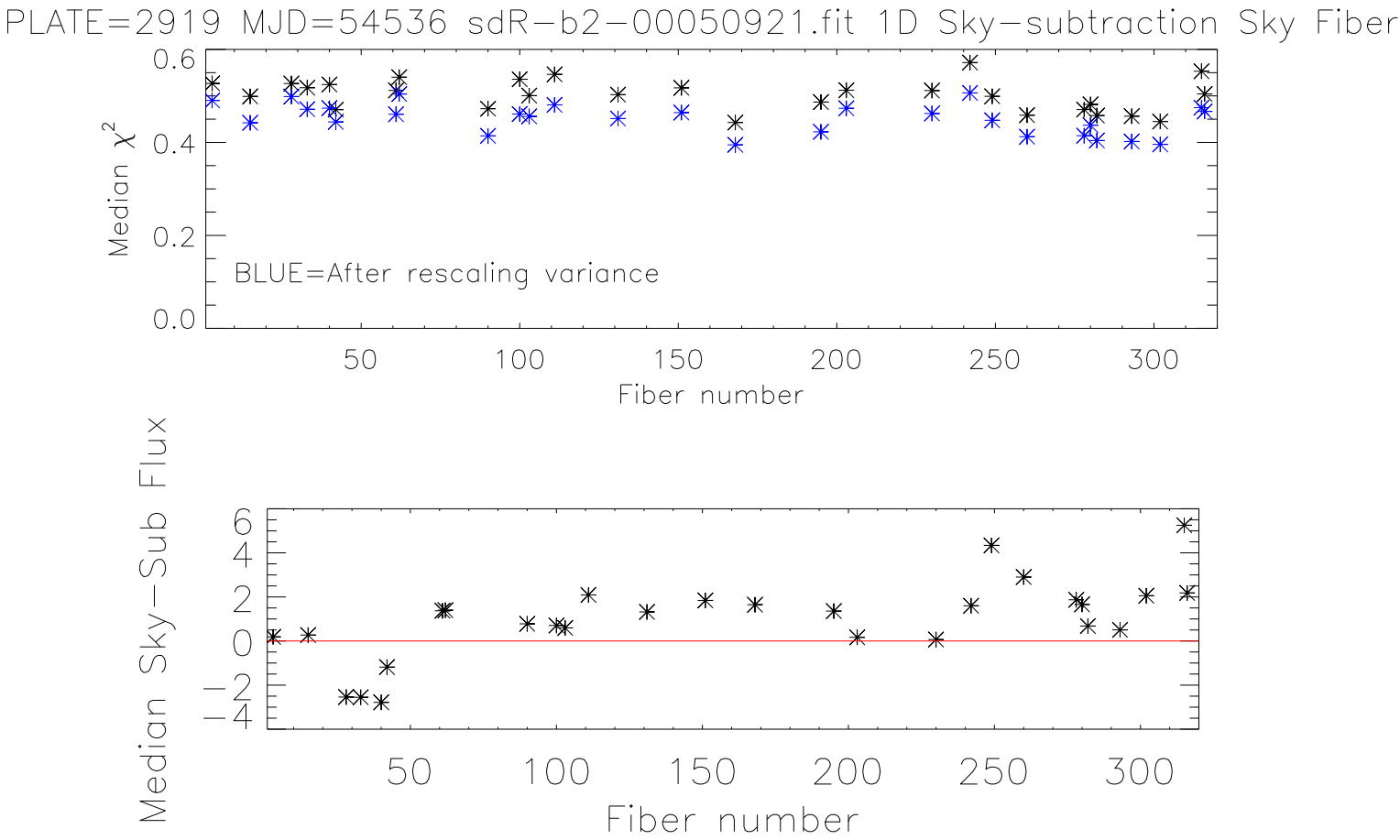

5895.9240
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

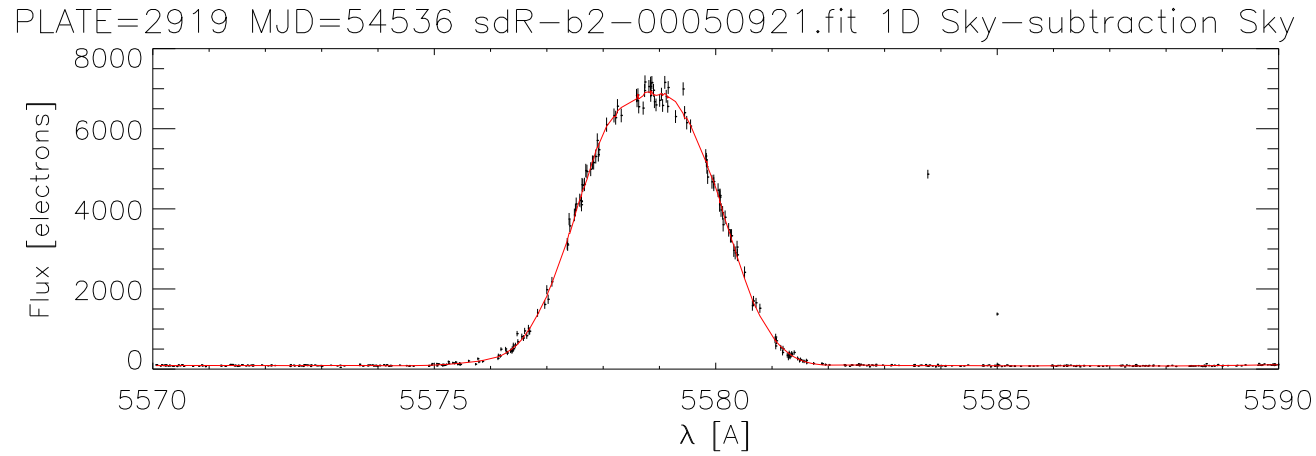

4046.5600
nfib1 29
nfib2 29
stdev 0.113
extra 0.46
4358.3300
nfib1 28
nfib2 28
stdev 0.051
extra 0.45
5460.9400
nfib1 29
nfib2 29
stdev 0.042
extra 0.44
5577.3390
nfib1 29
nfib2 29
stdev 0.026
extra 0.52
5889.9500
nfib1 29
nfib2 29
stdev 0.036
extra 0.60
5895.9240
nfib1 29
nfib2 29
stdev 0.048
extra 0.57
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

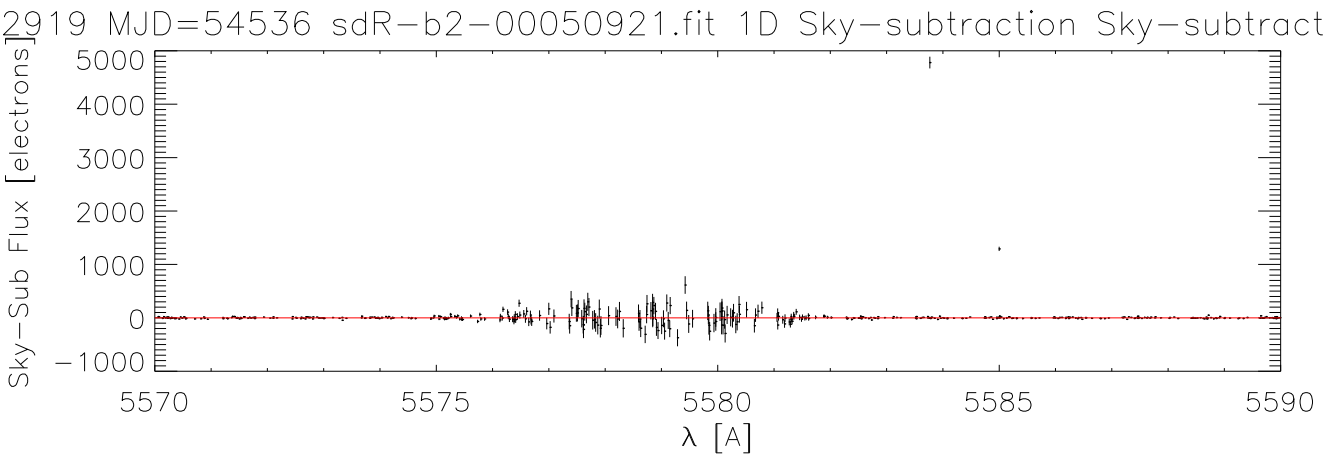

0.60
0.55
0.50
0.45
0.40
0.35
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

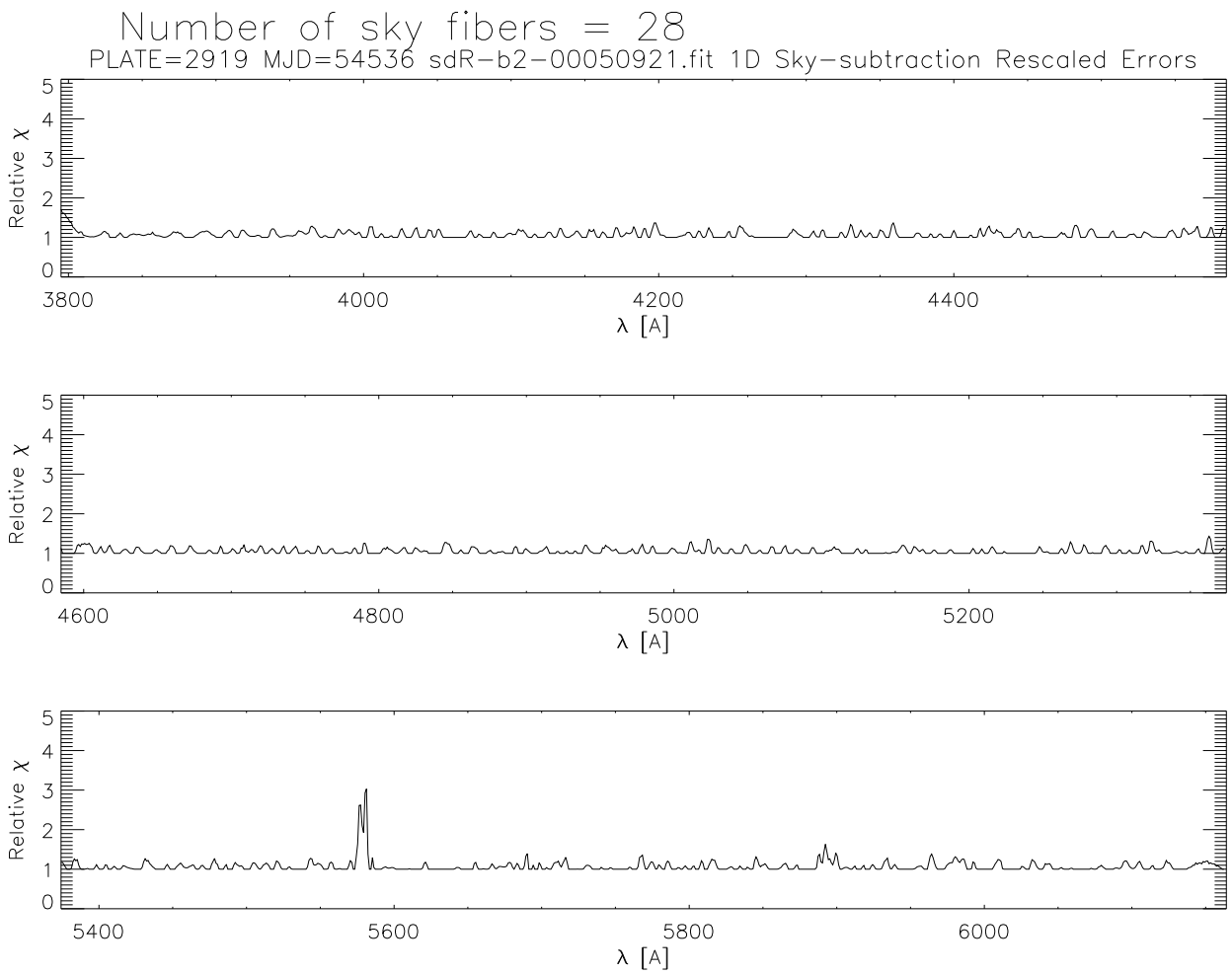

PLATE=2919 MJD=54536 Smooth superflat for sdR-b2-00050921.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

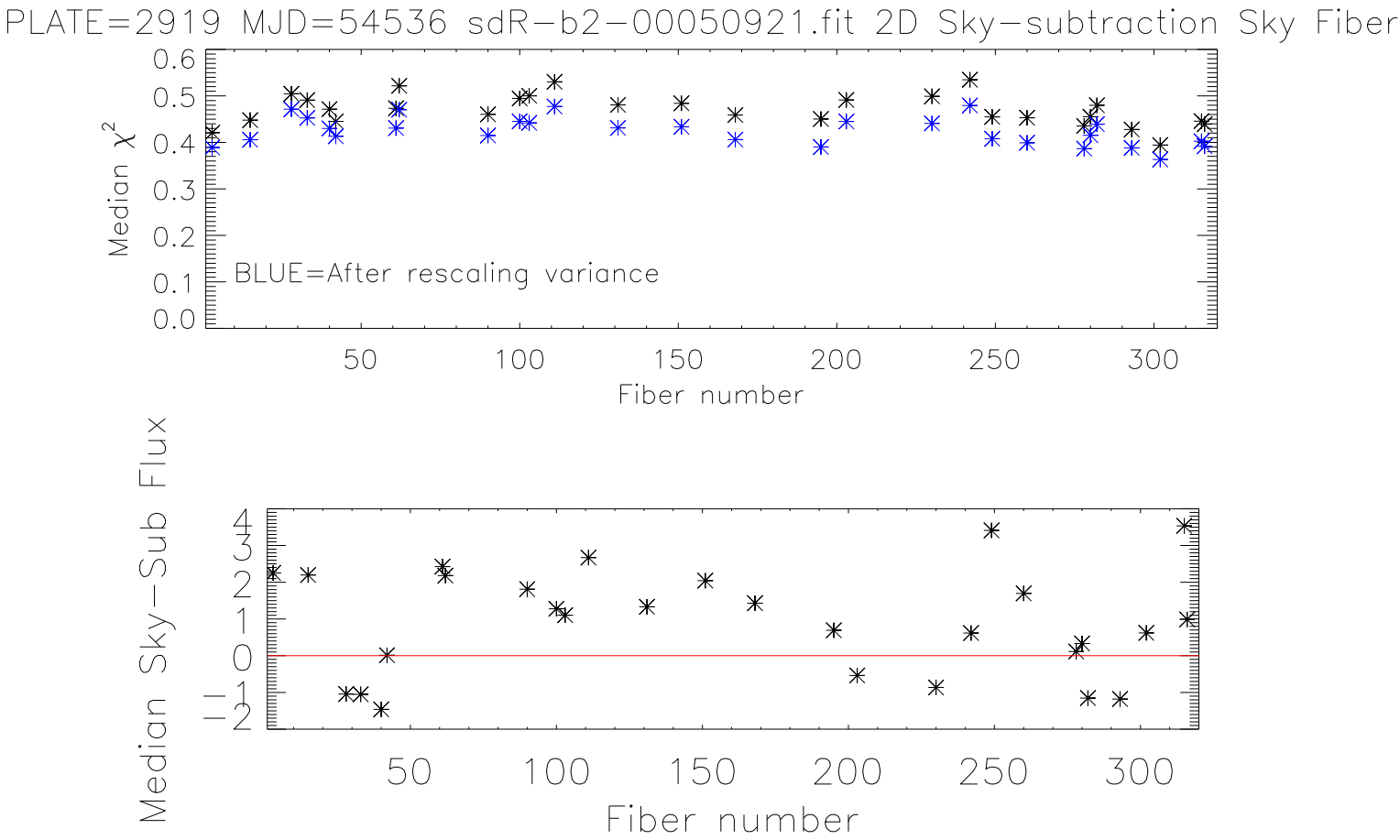
es= −0.0000

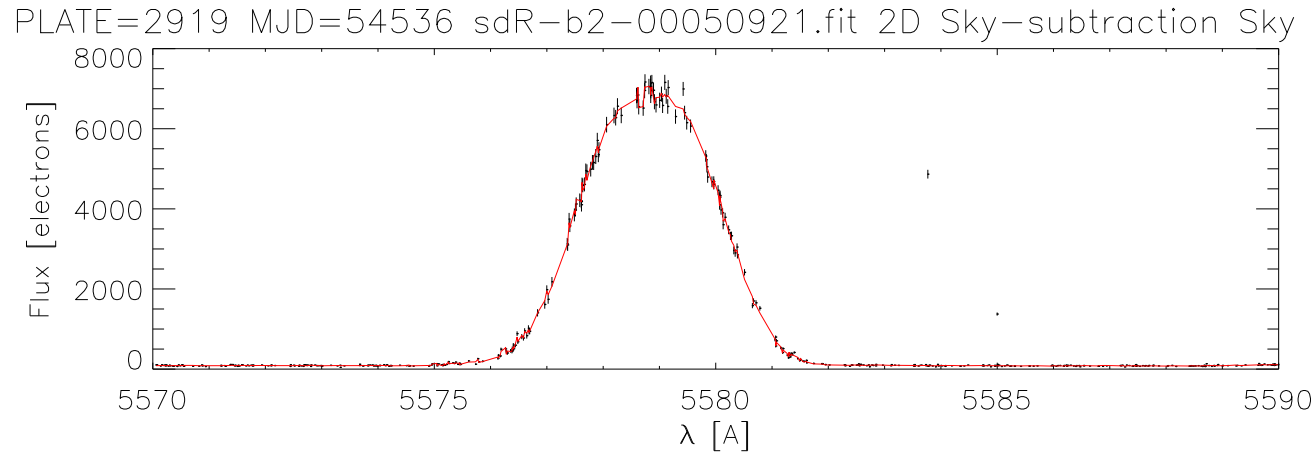

PLATE=2919 MJD=54536 sdR-b2-00050921.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

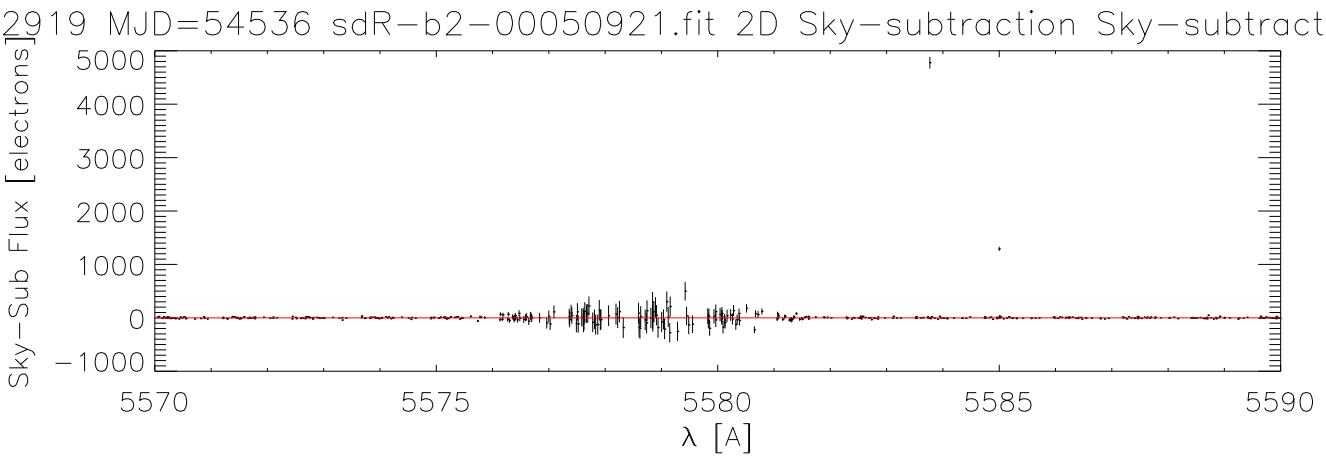

PLATE=2919 MJD=54536 sdR-b2-00050921.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

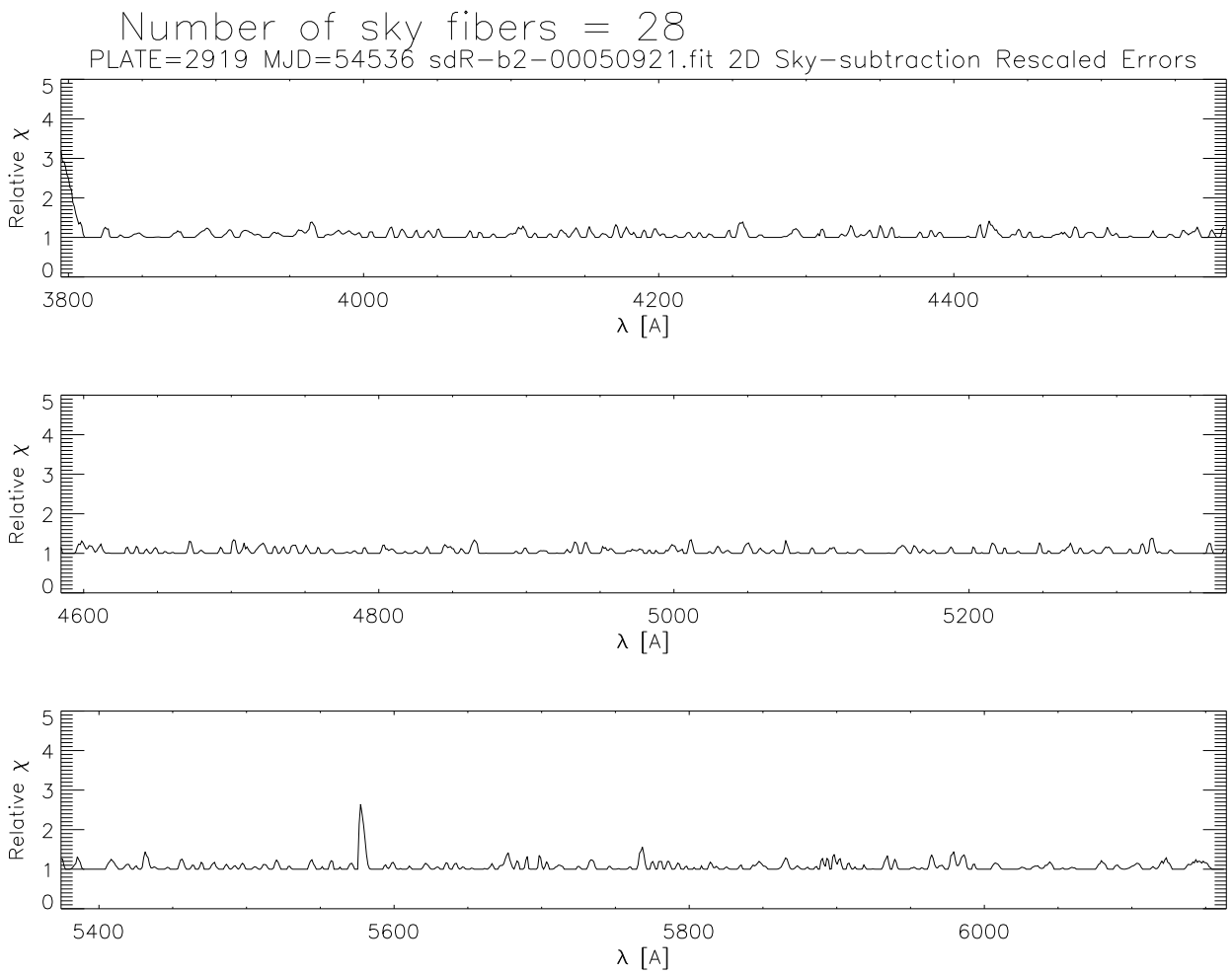

PLATE=2919 MJD=54536 sdR-b2-00050921.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

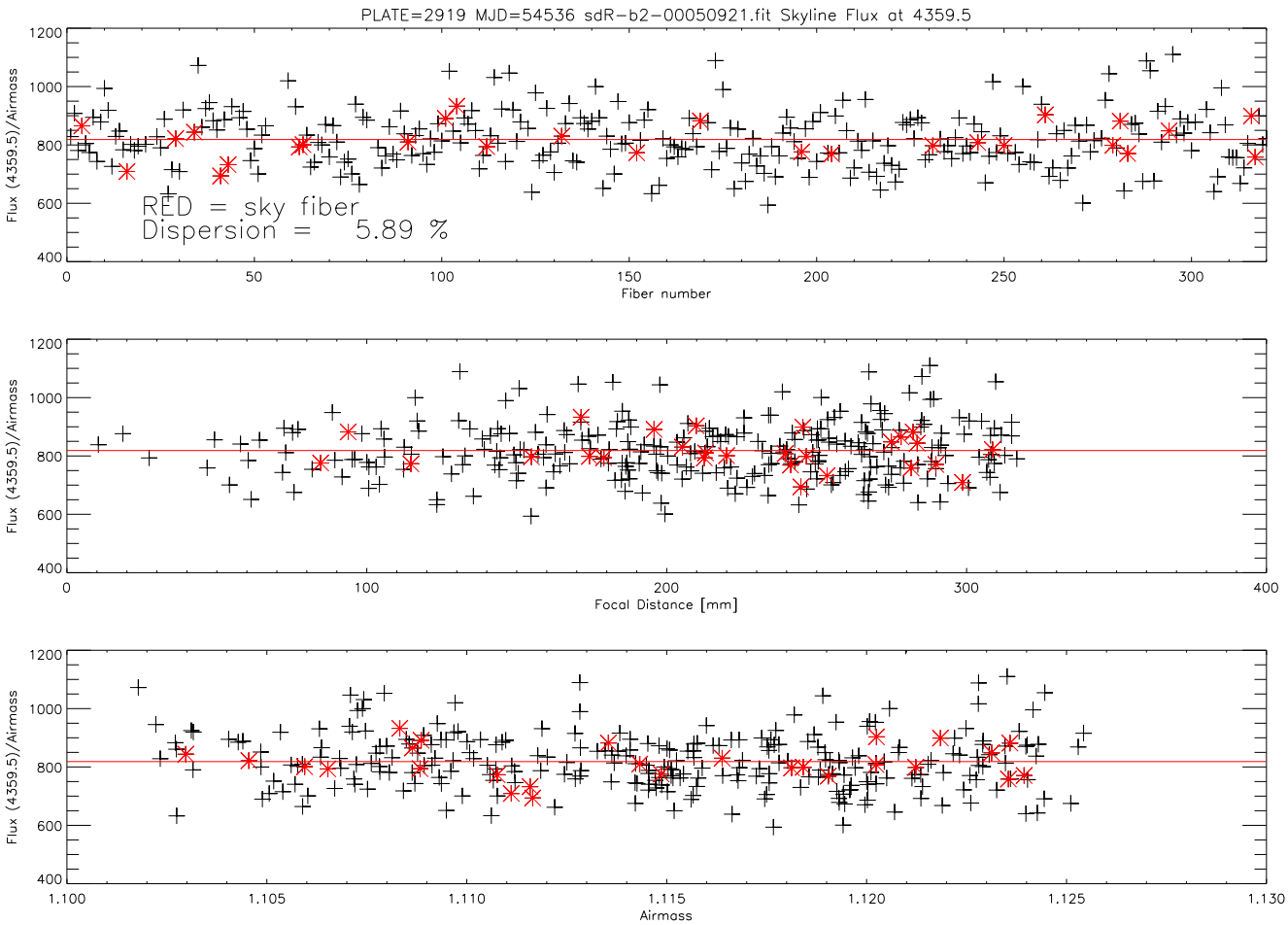

Number of sky fibers = 28
PLATE=2919 MJD=54536 sdR-b2-00050921.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

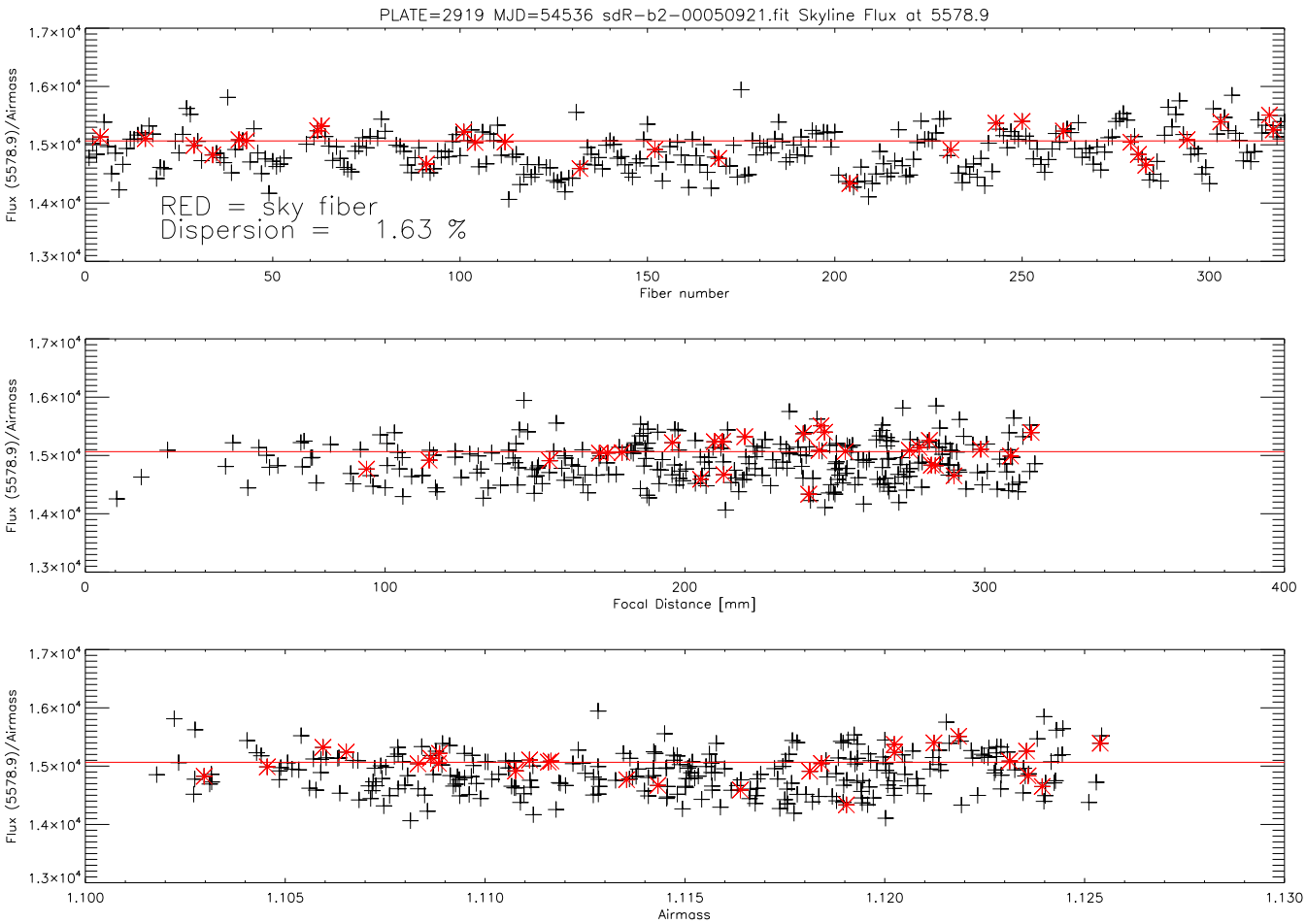

PLATE=2919 MJD=54536 sdR-b2-00050921.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

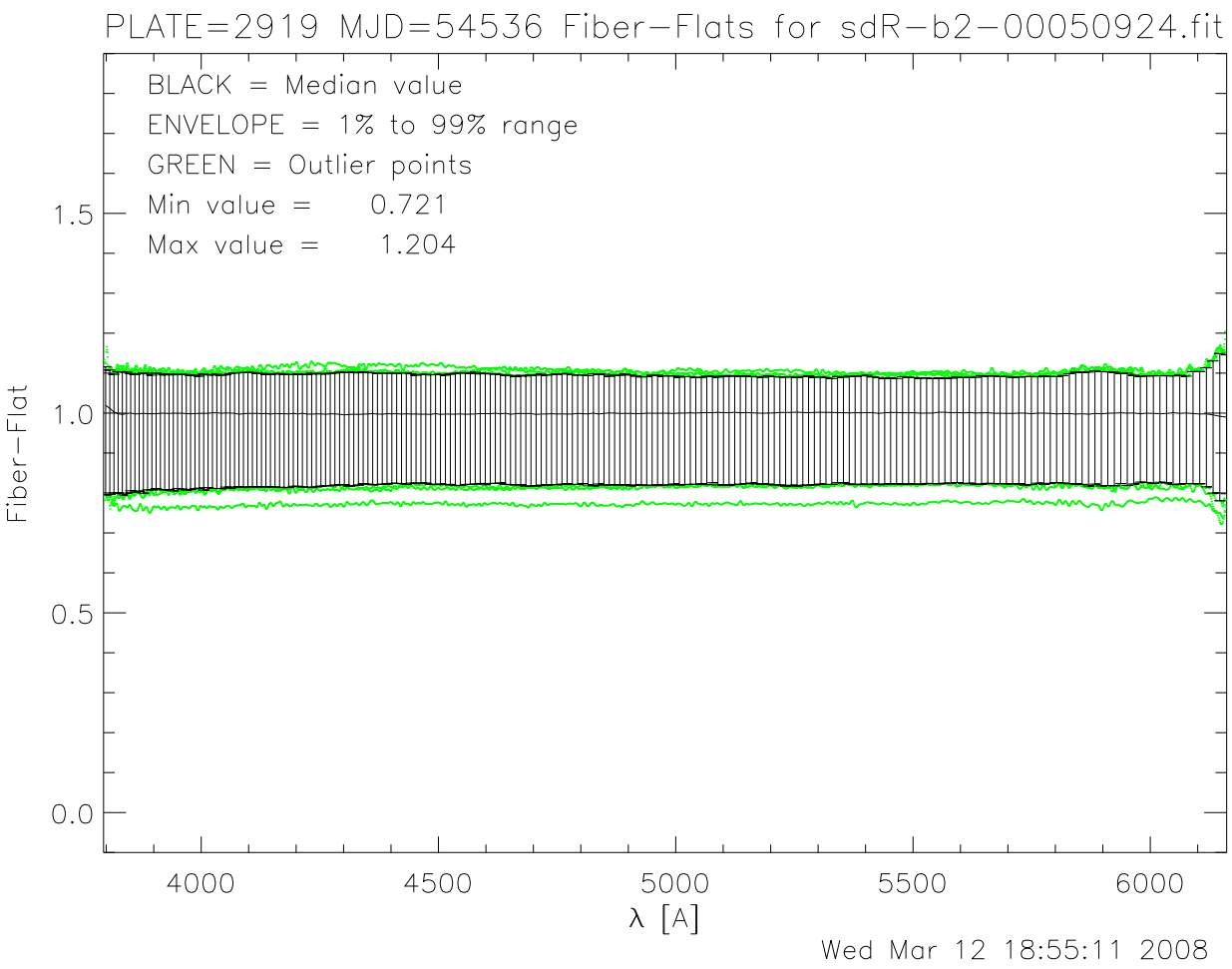

PLATE=2919 MJD=54536 sdR-b2-00050921.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

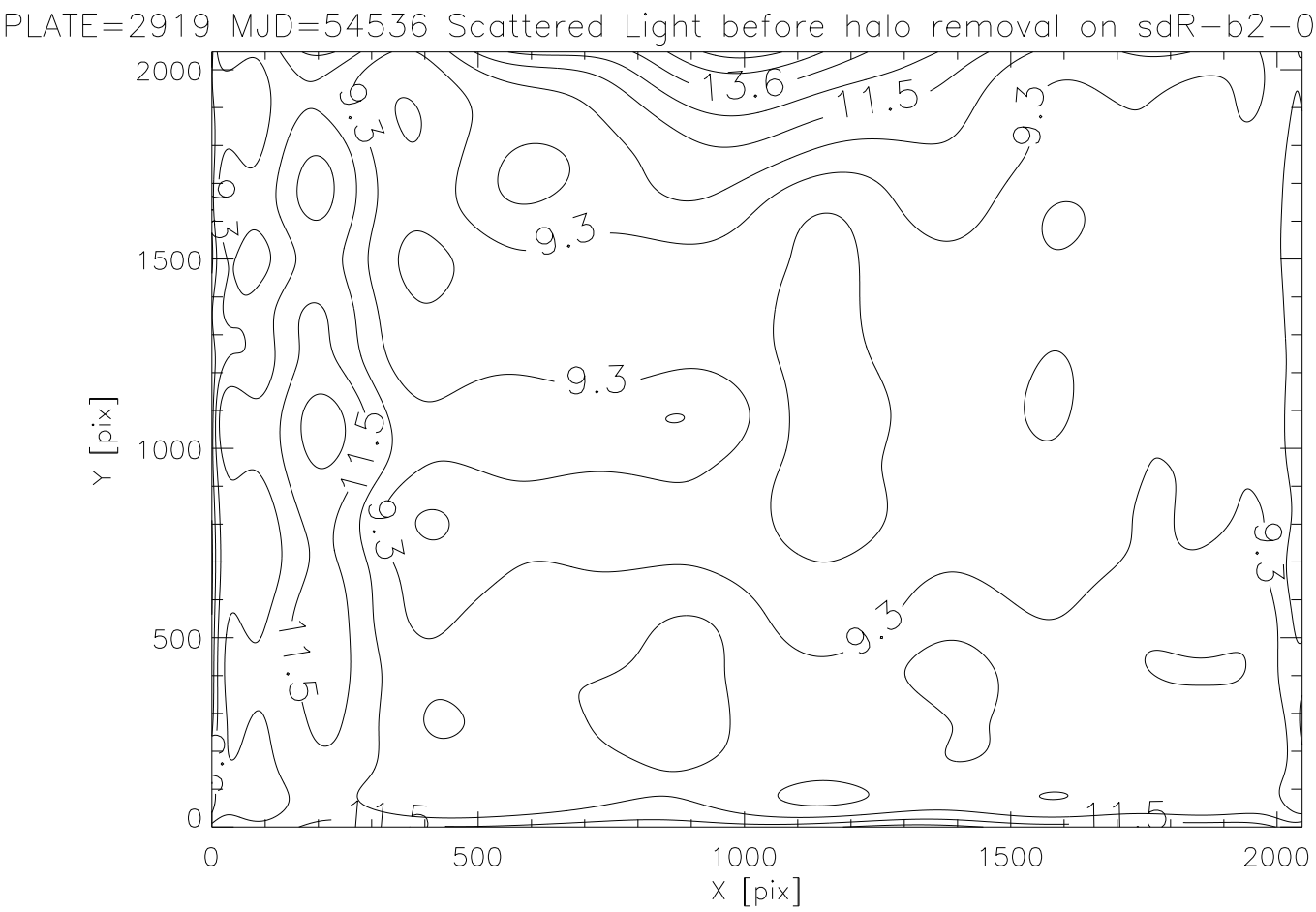

PLATE=2919 MJD=54536 sdR-b2-00050921.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

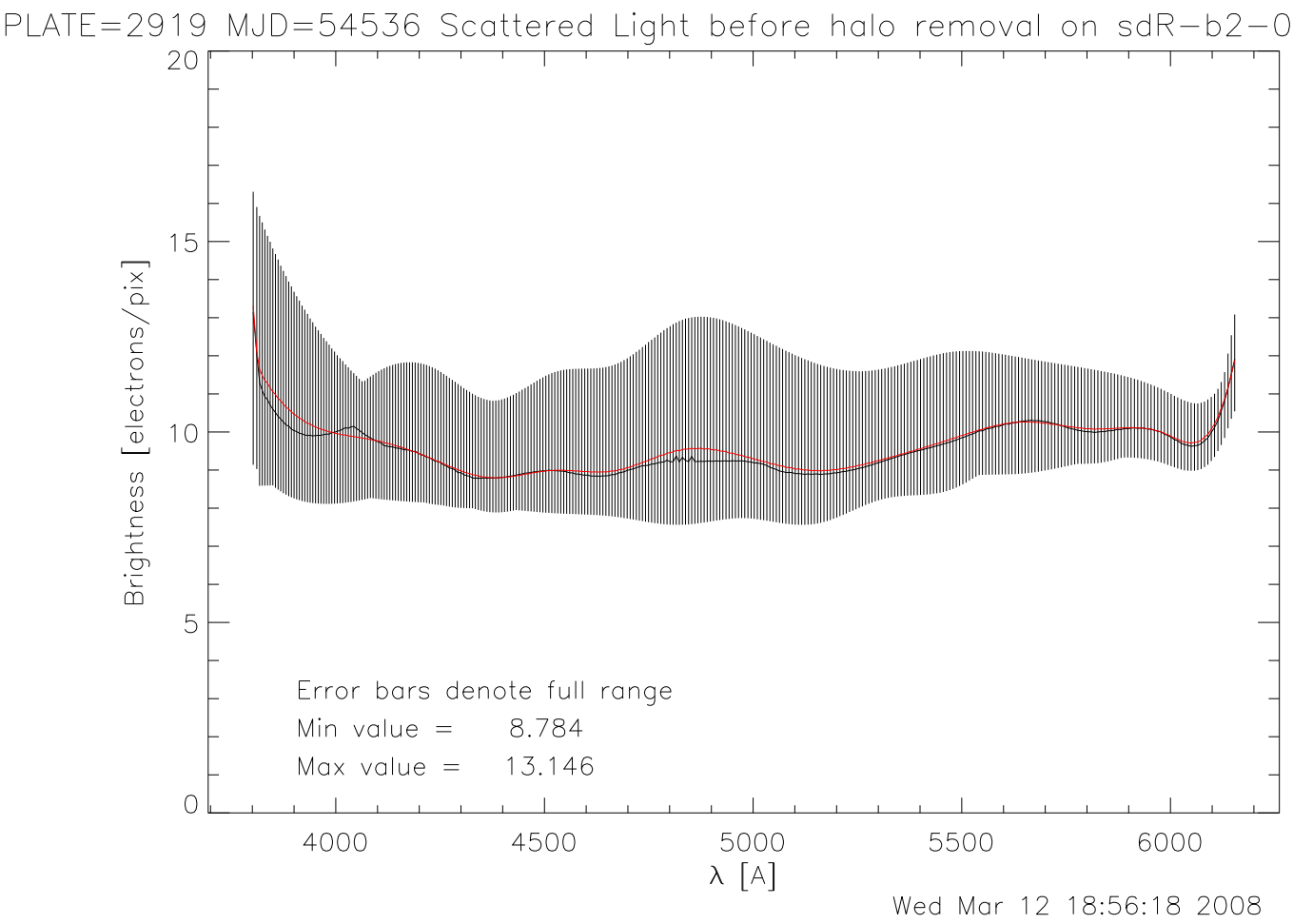

Number of sky fibers = 28
PLATE=2919 MJD=54536 sdR-b2-00050921.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

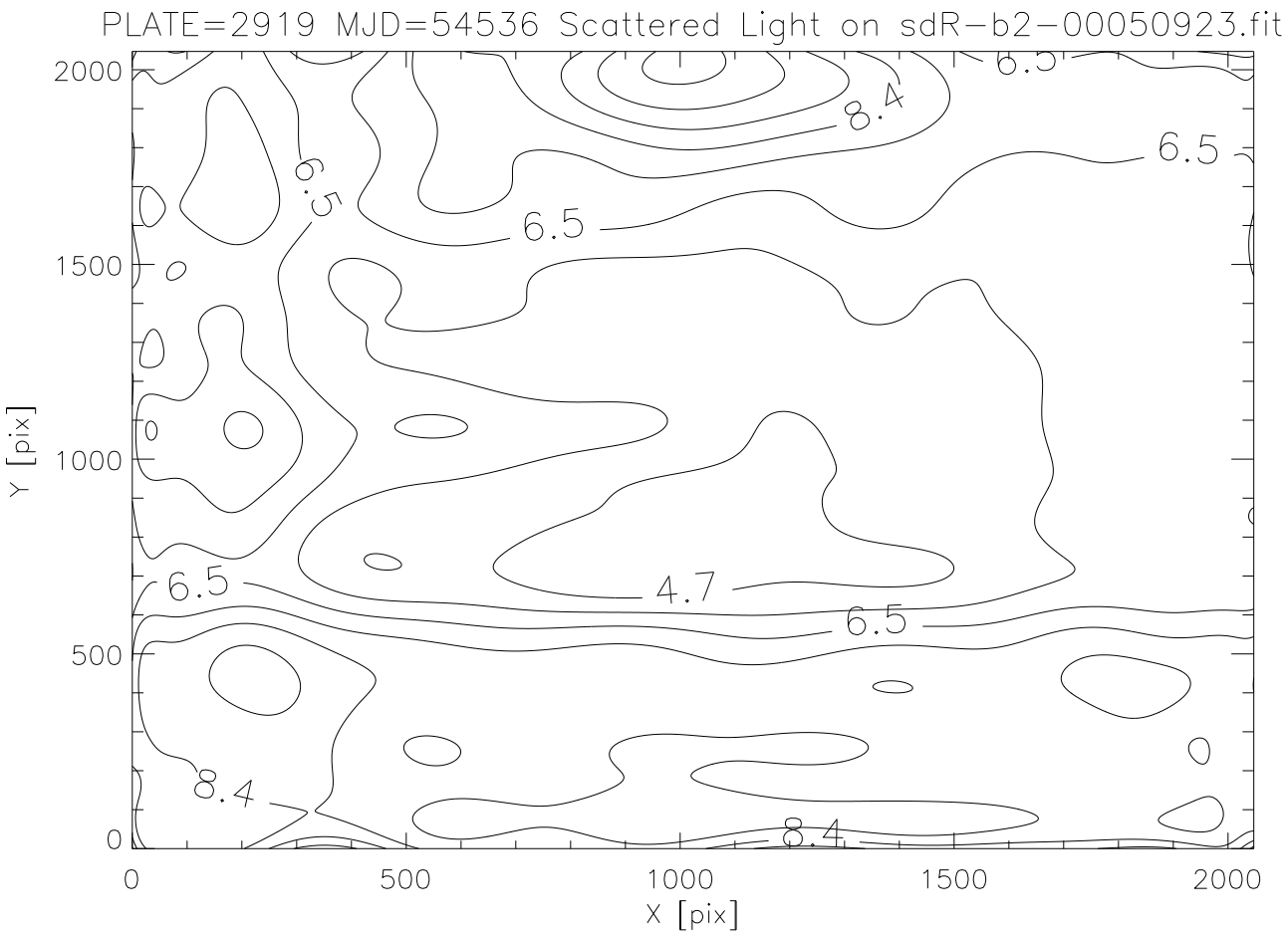

PLATE=2919 MJD=54536 sdR-b2-00050921.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 5.89 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

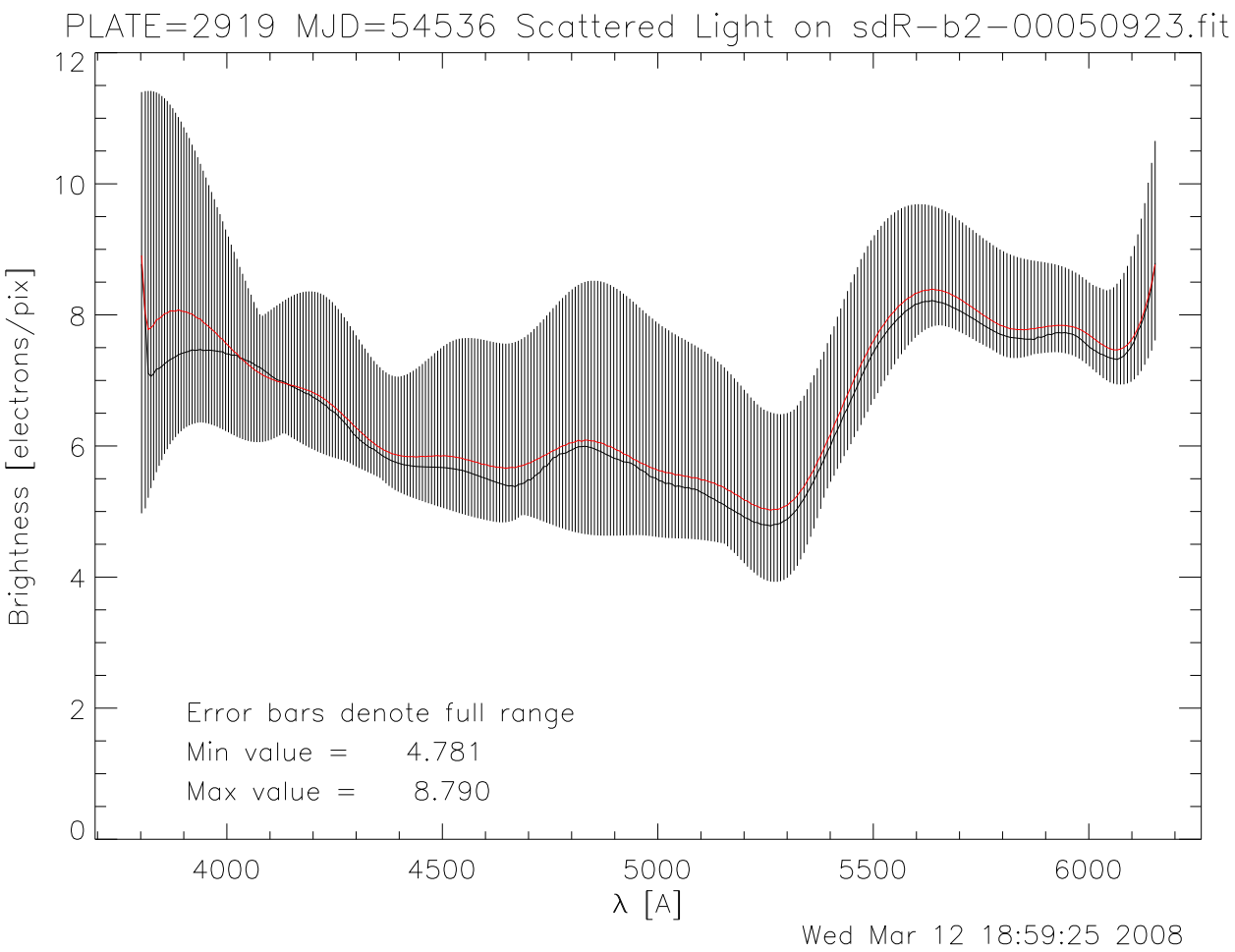

PLATE=2919 MJD=54536 sdR-b2-00050921.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.7×10^4
1.6×10^4
1.5×10^4
1.4×10^4
1.3×10^4
RED = sky fiber
Dispersion = 1.63 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1.7×10^4
1.6×10^4
1.5×10^4
1.4×10^4
1.3×10^4
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.7×10^4
1.6×10^4
1.5×10^4
1.4×10^4
1.3×10^4
1.100
1.105
1.110
1.115
1.120
1.125
1.130
Airmass

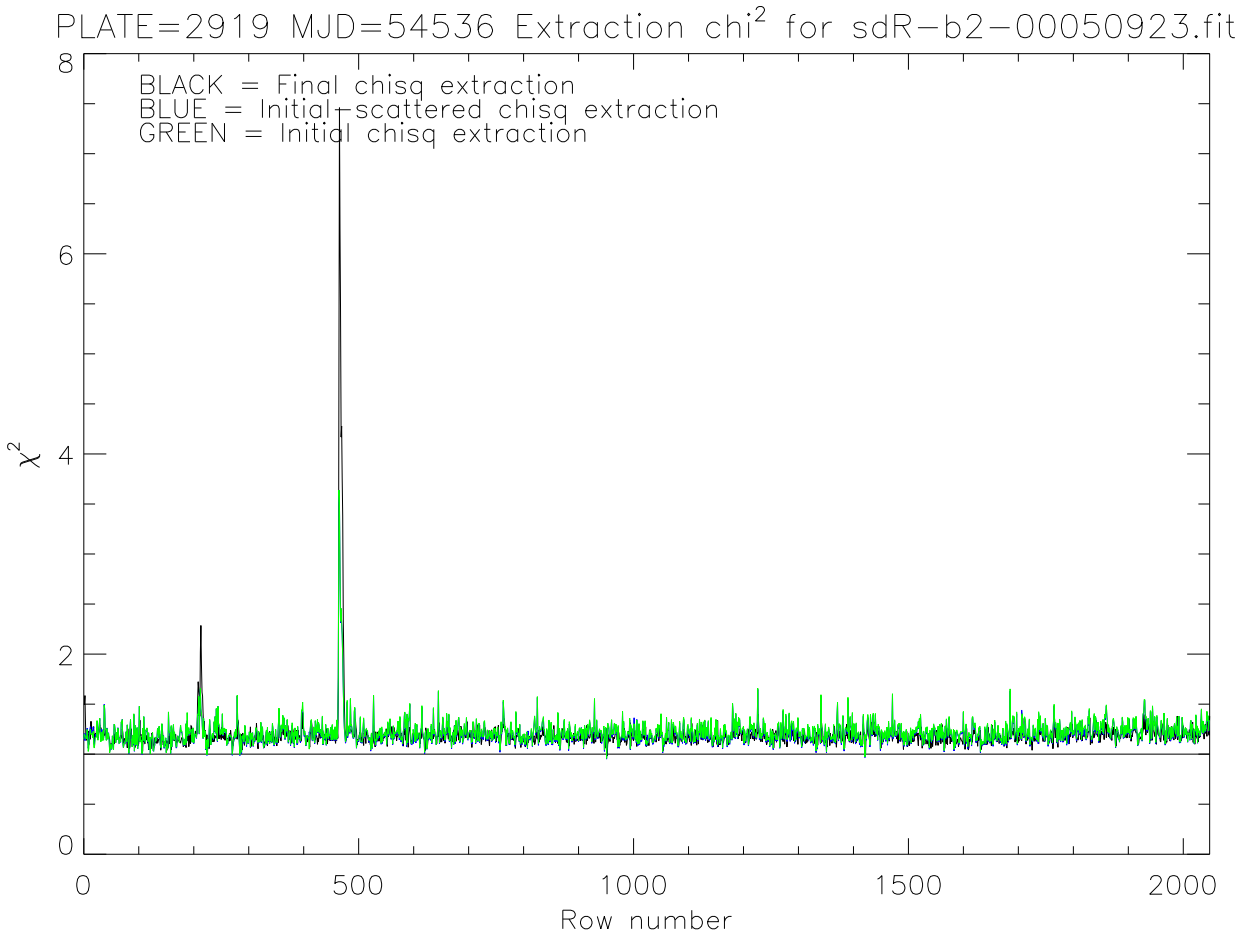

PLATE=2919 MJD=54536 Fiber-Flats for sdR-b2-00050924.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.721
Max value = 1.204
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:55:11 2008

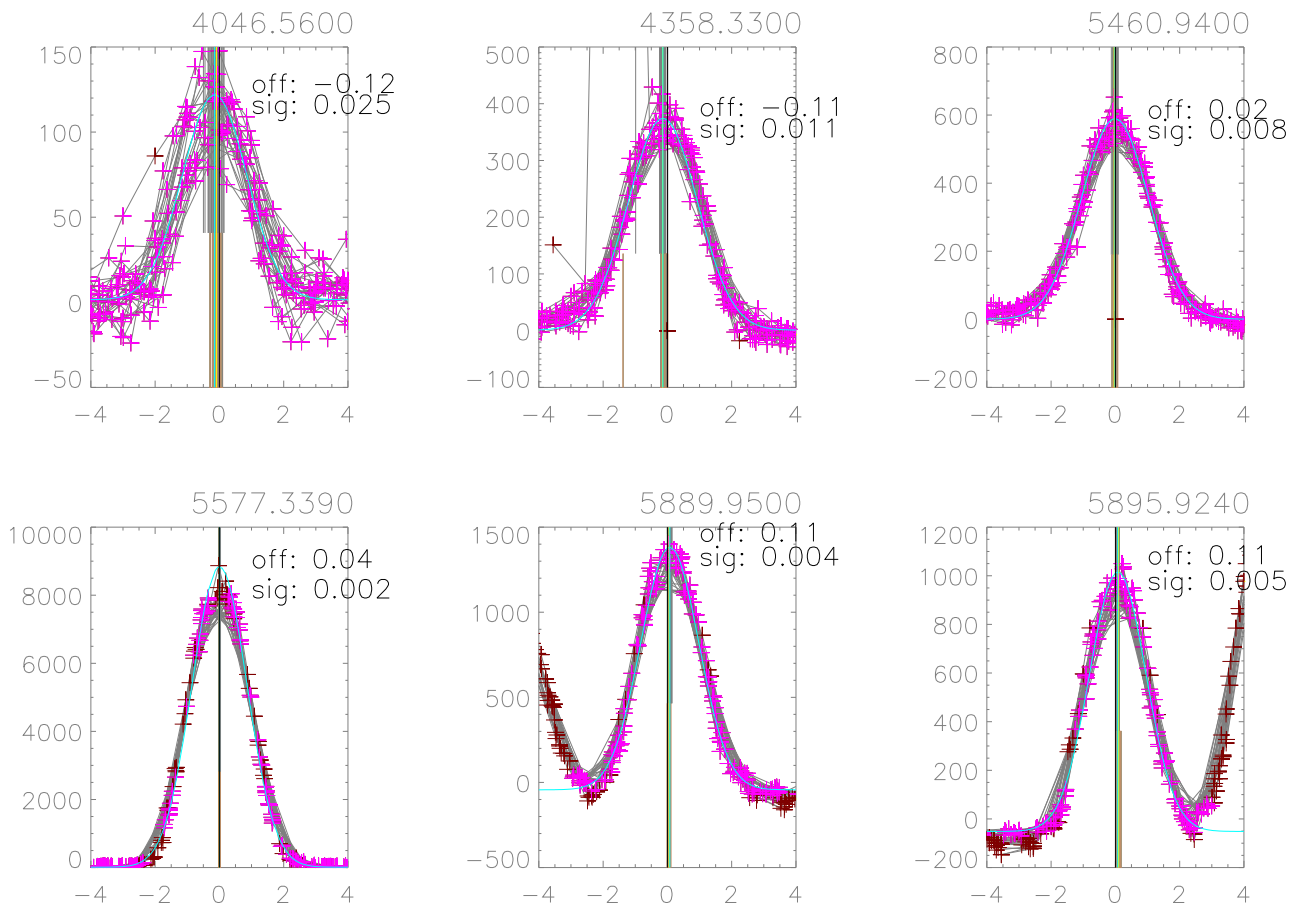

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR-b2-00050923.f
13.6
11.5
9.3
9.3
9.3
9.3
9.3
11.5
11.5
11.5
11.5
Y [pix]
X [pix]
0
500
1000
1500
2000

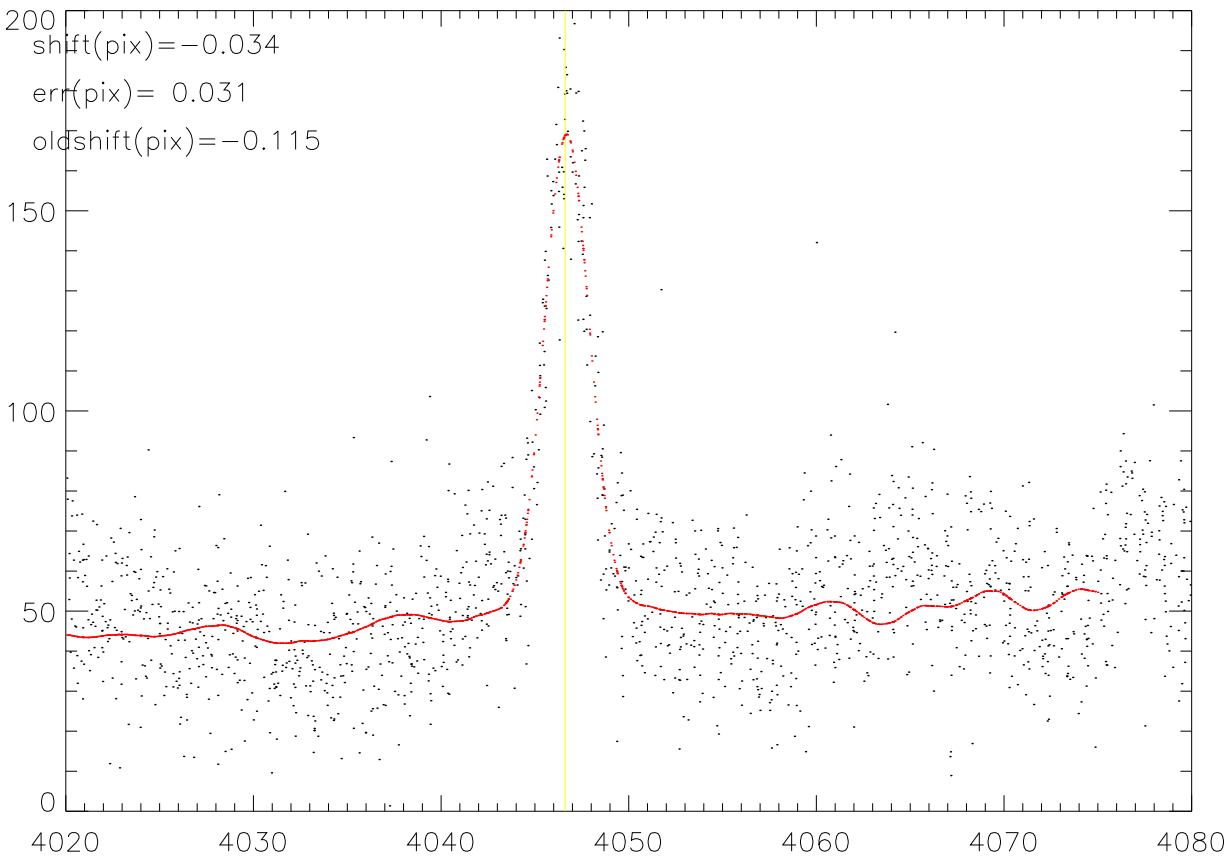

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR-b2-00050923.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 8.784
Max value = 13.146
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:56:18 2008

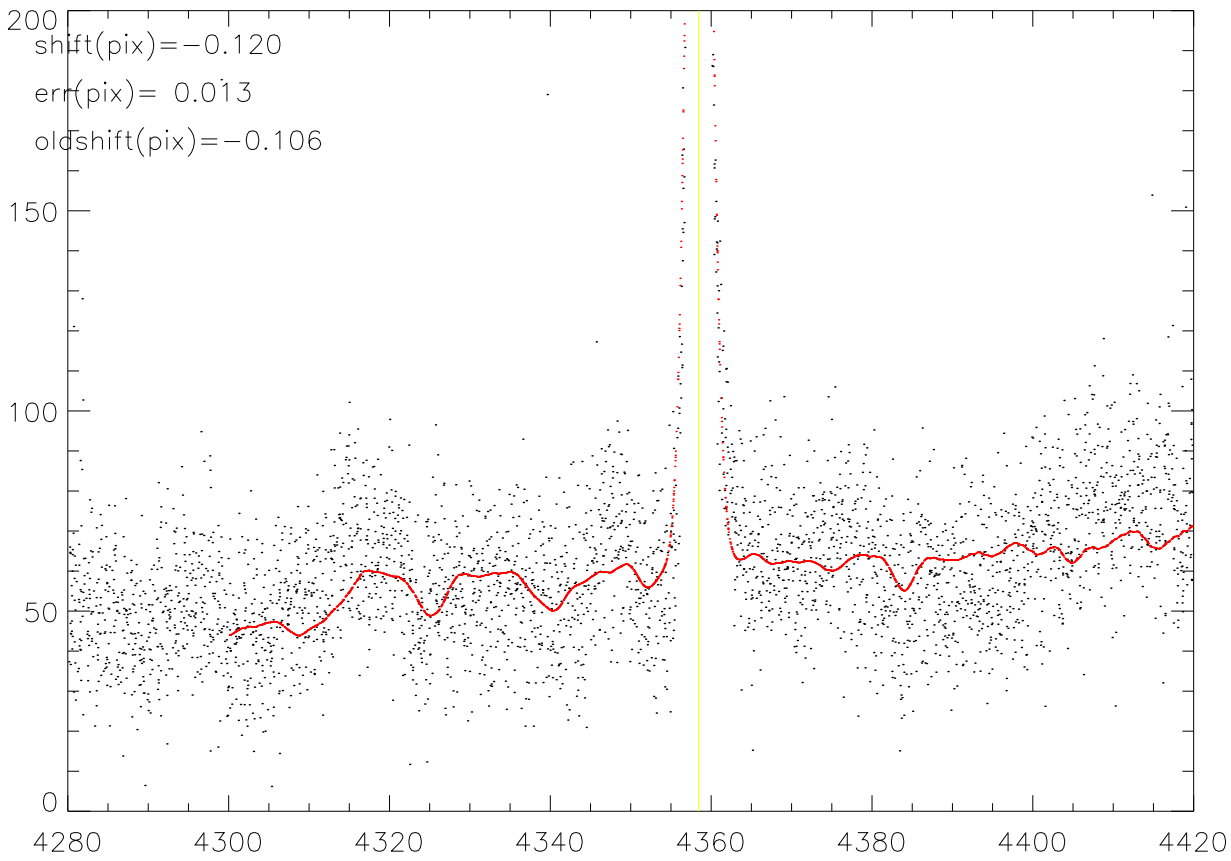

PLATE=2919 MJD=54536 Scattered Light on sdR-b2-00050923.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.5
8.4
4.7
0

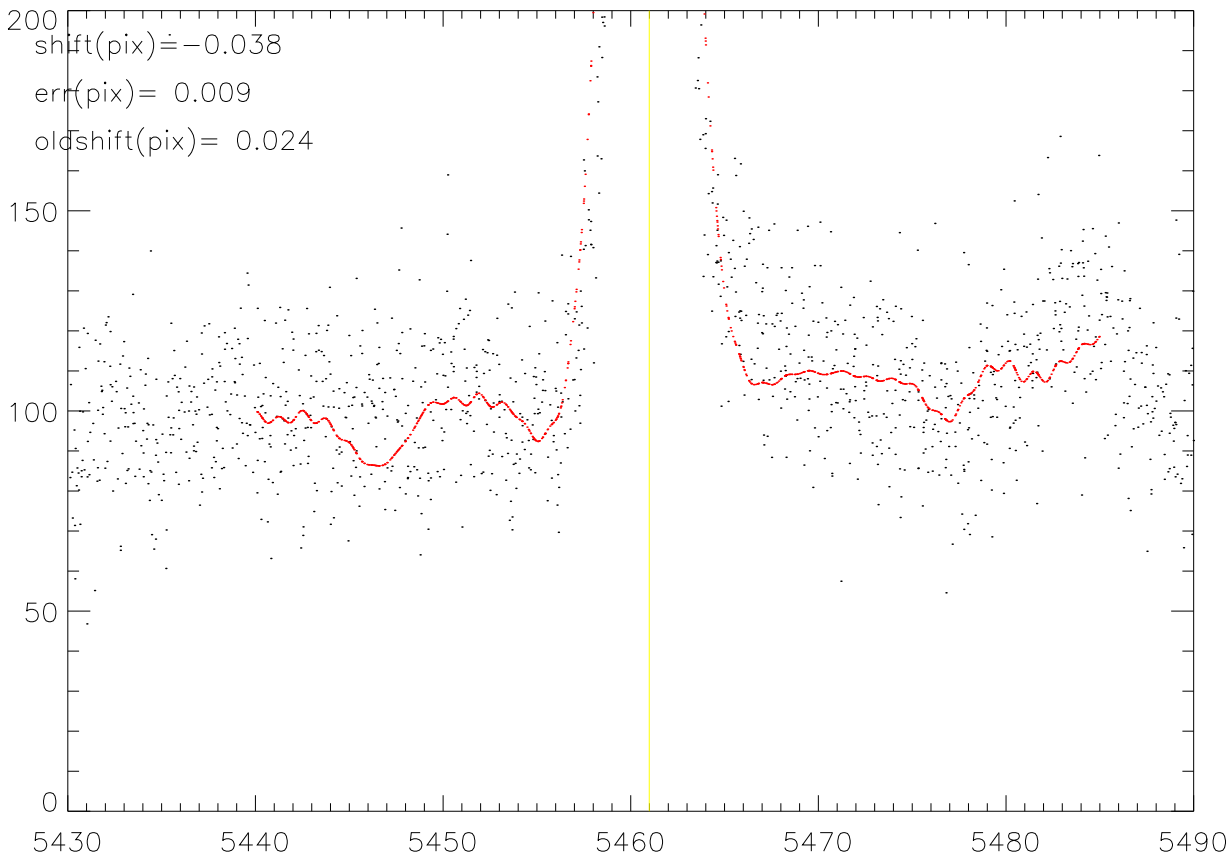

PLATE=2919 MJD=54536 Scattered Light on sdR-b2-00050923.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.781
Max value = 8.790
Wed Mar 12 18:59:25 2008

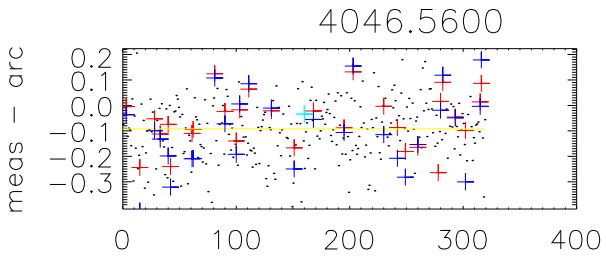

PLATE=2919 MJD=54536 Extraction chi^2 for sdR-b2-00050923.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

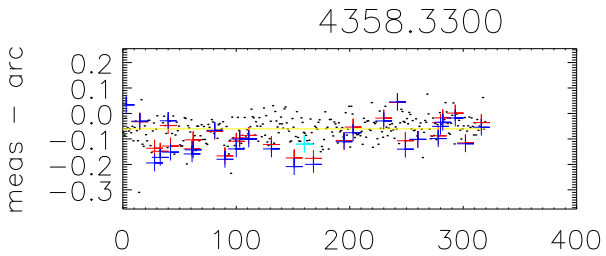

4046.5600
off: −0.12
sig: 0.025
4358.3300
off: −0.11
sig: 0.011
5460.9400
off: 0.02
sig: 0.008
5577.3390
off: 0.04
sig: 0.002
5889.9500
off: 0.11
sig: 0.004
5895.9240
off: 0.11
sig: 0.005

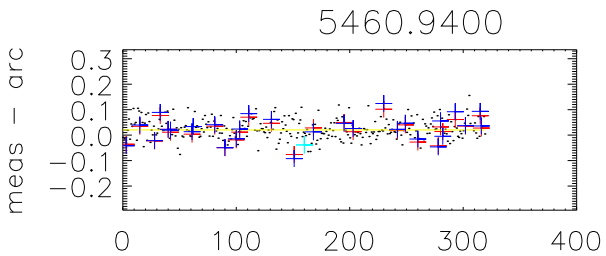

shift(pix)=−0.034
err(pix)= 0.031
oldshift(pix)=−0.115
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

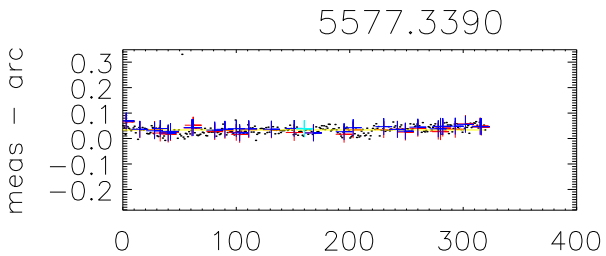

shift(pix)=−0.120
err(pix)= 0.013
oldshift(pix)=−0.106
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

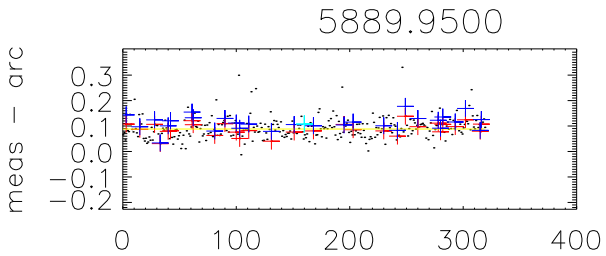

shift(pix)=−0.038
err(pix)= 0.009
oldshift(pix)= 0.024
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

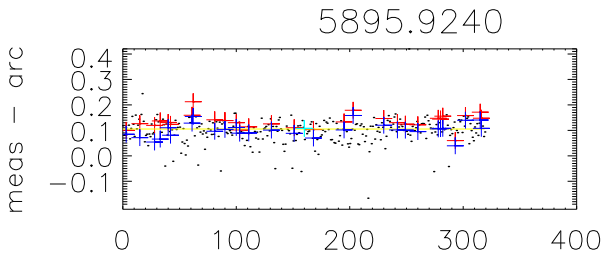

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

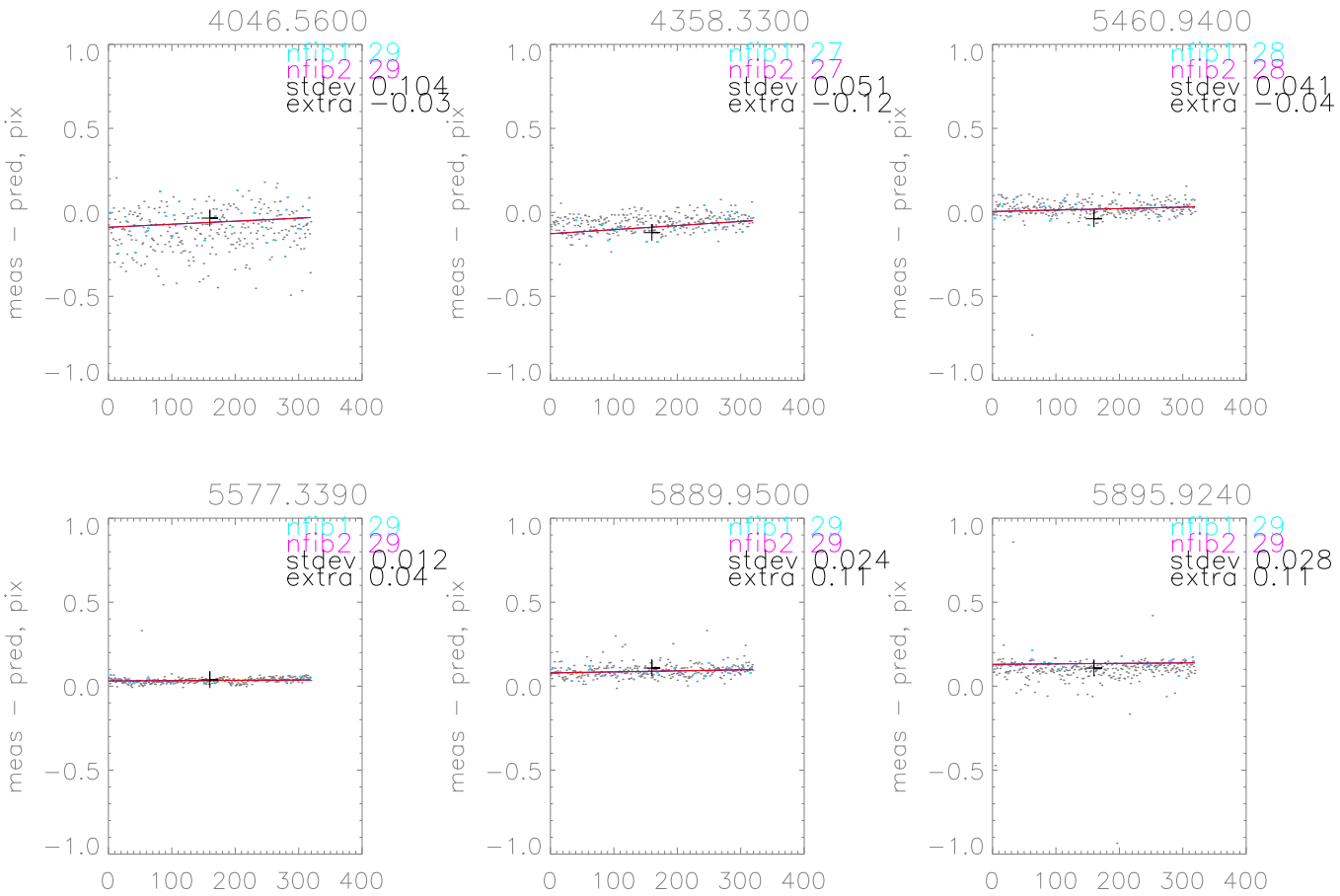

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

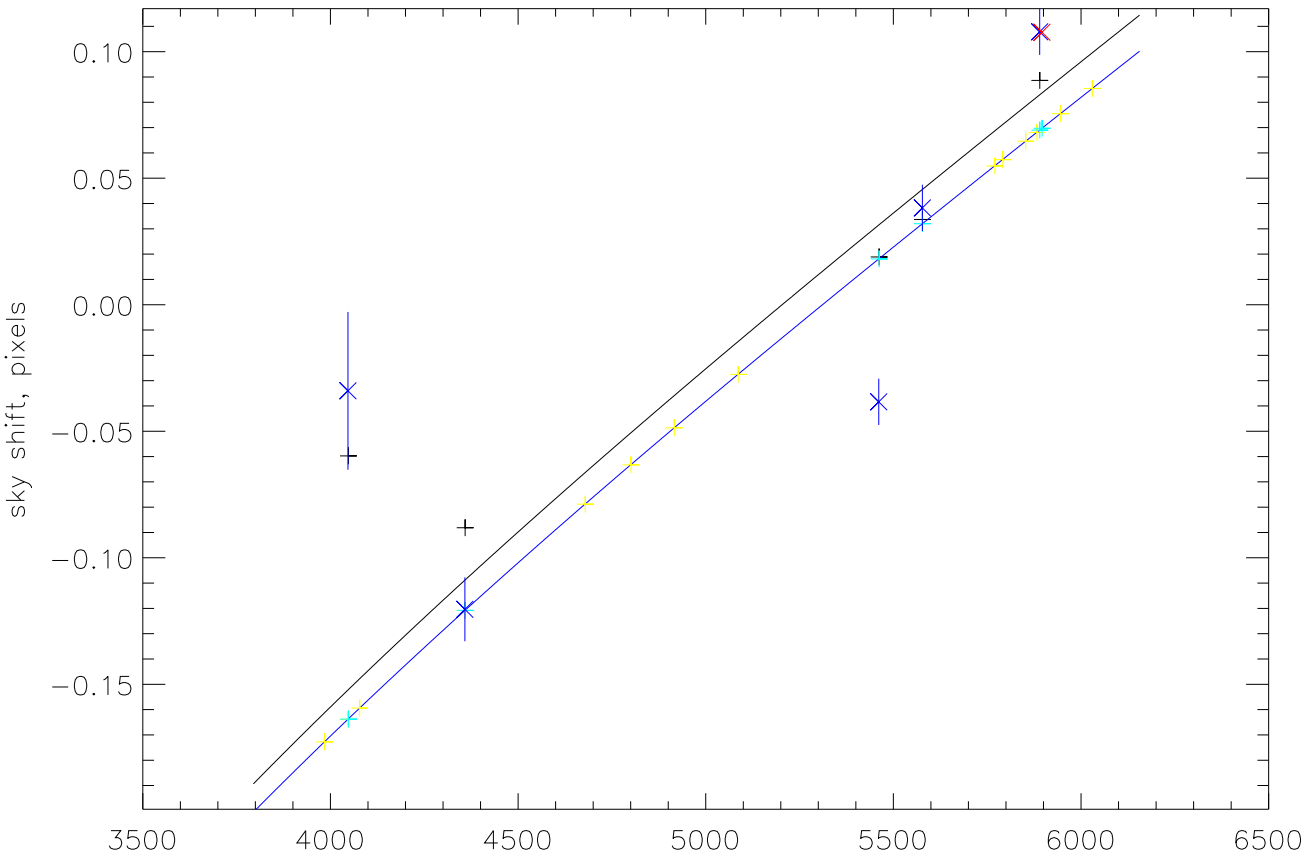

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

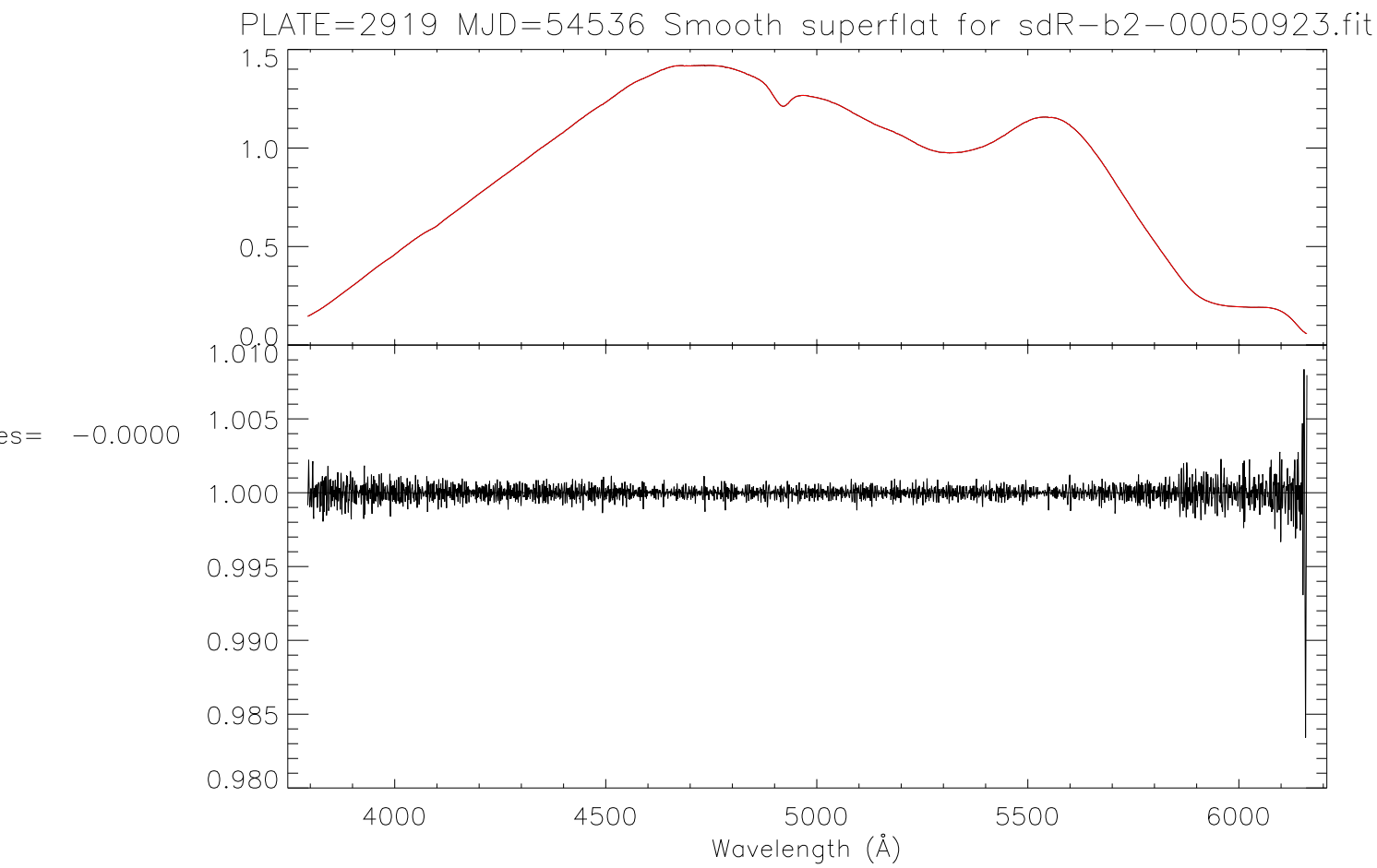

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

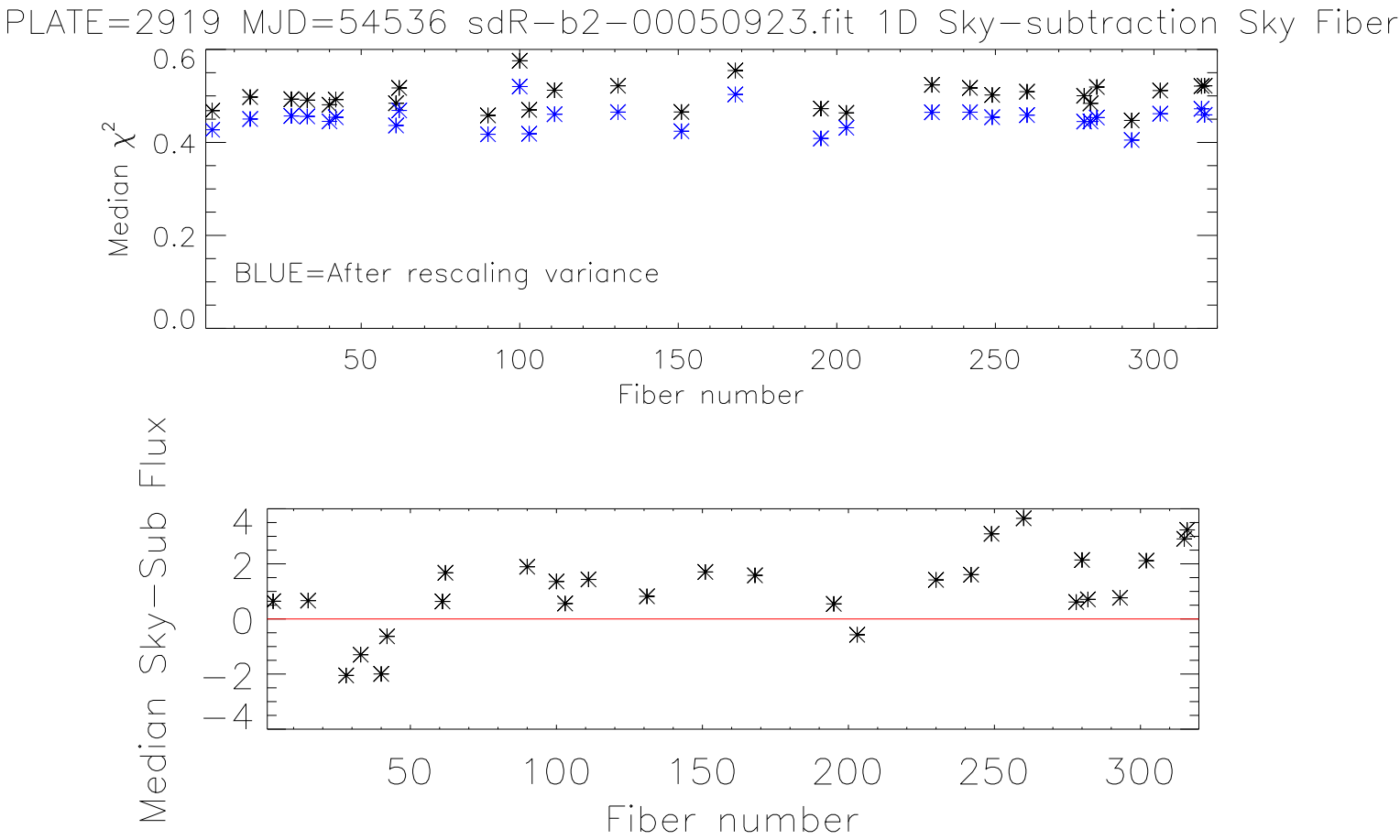

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

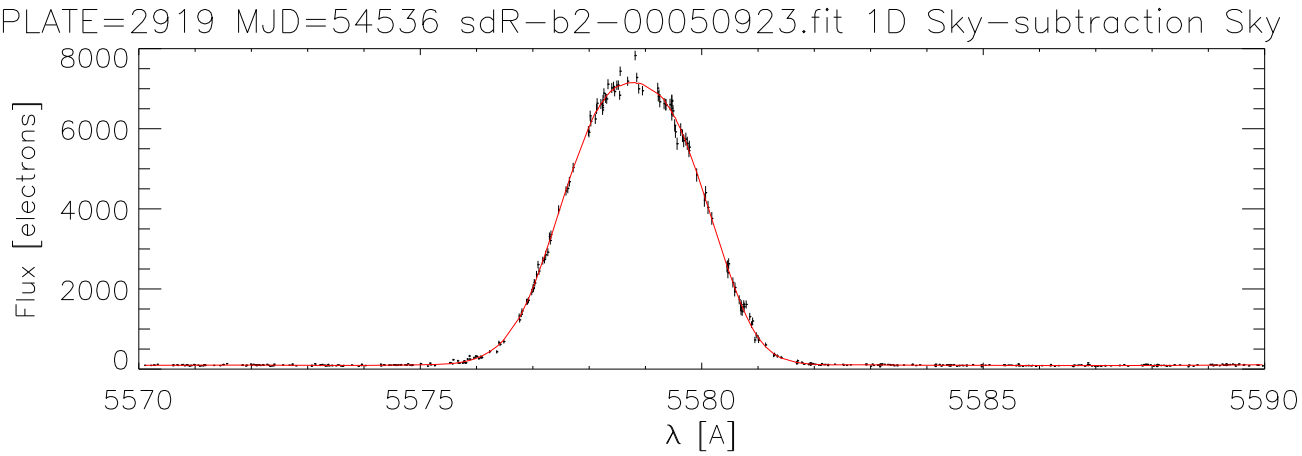

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

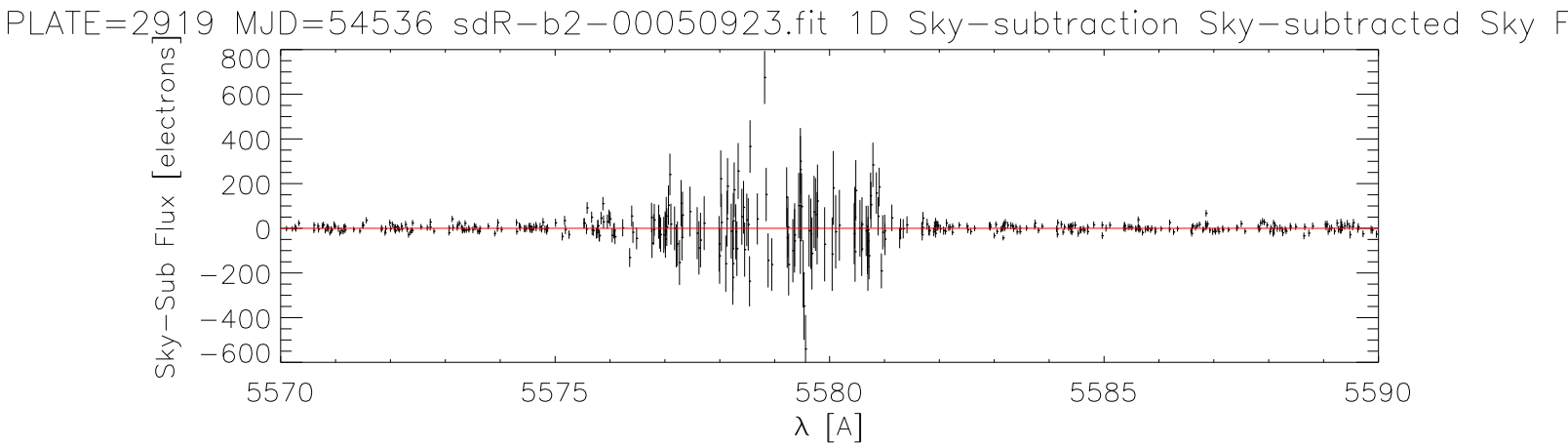

4046.5600
nfib1 29
nfib2 29
stdev 0.104
extra −0.03
4358.3300
nfib1 27
nfib2 27
stdev 0.051
extra −0.12
5460.9400
nfib1 28
nfib2 28
stdev 0.041
extra −0.04
5577.3390
nfib1 29
nfib2 29
stdev 0.012
extra 0.04
5889.9500
nfib1 29
nfib2 29
stdev 0.024
extra 0.11
5895.9240
nfib1 29
nfib2 29
stdev 0.028
extra 0.11
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

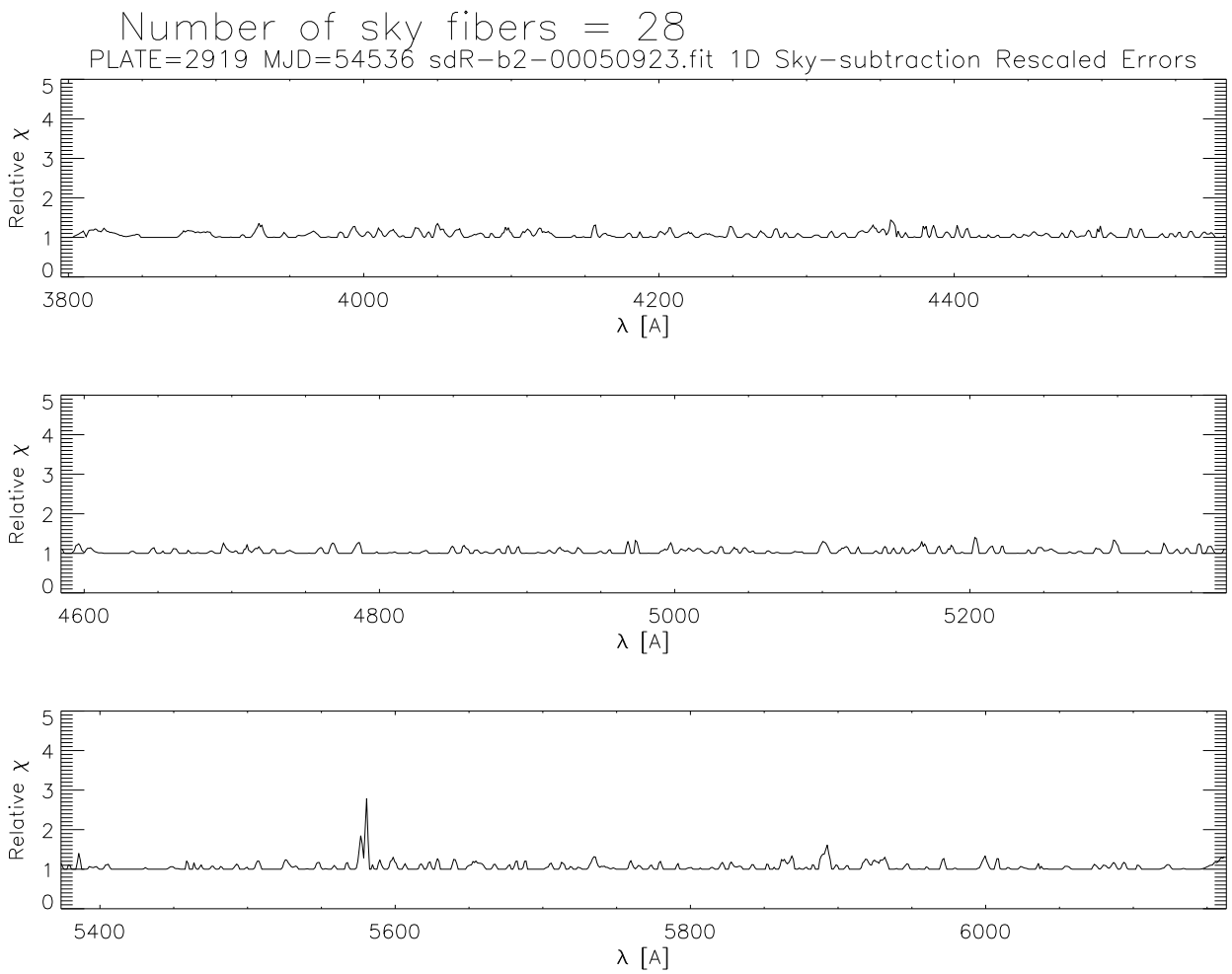

sky shift, pixels
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

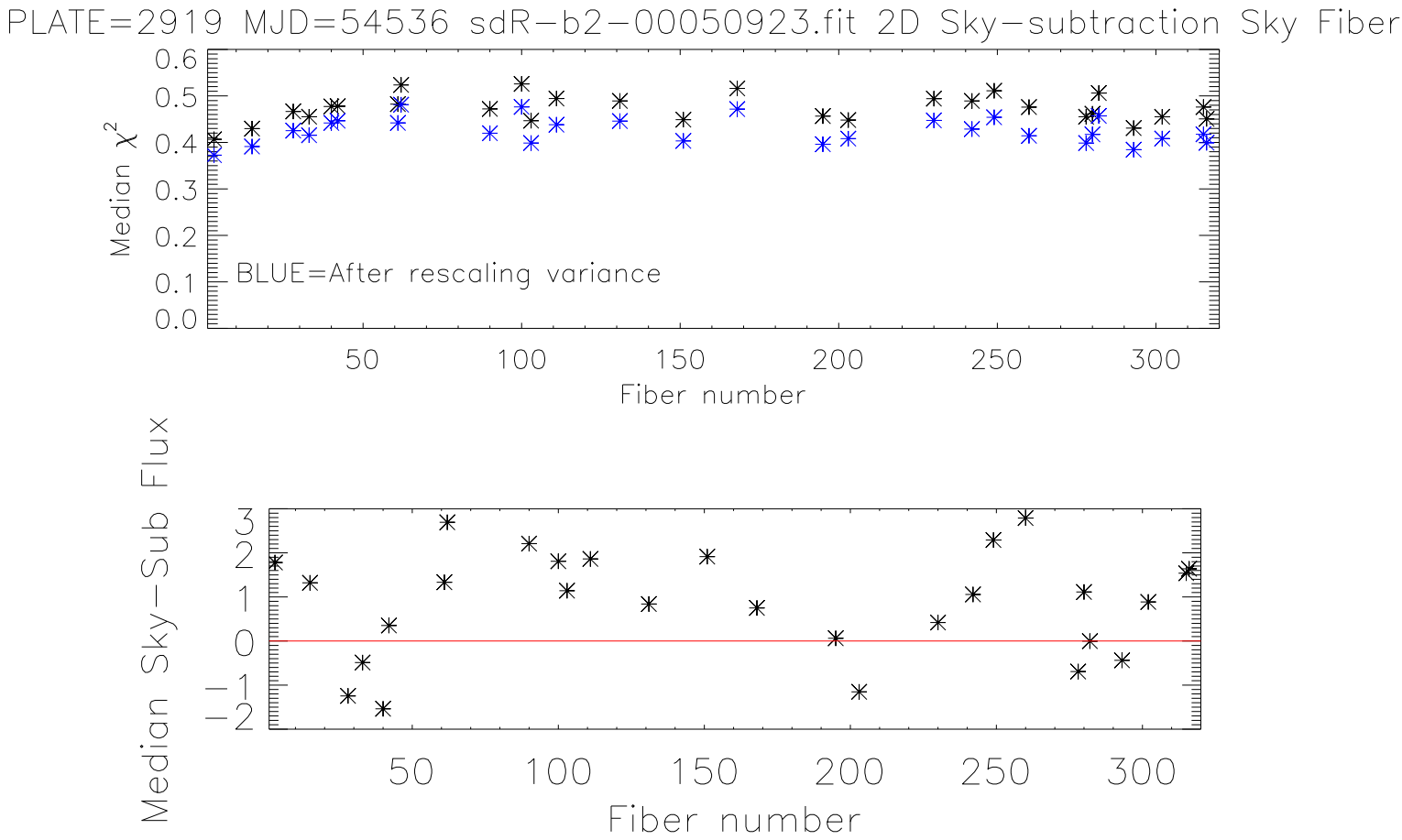

PLATE=2919 MJD=54536 Smooth superflat for sdR-b2-00050923.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

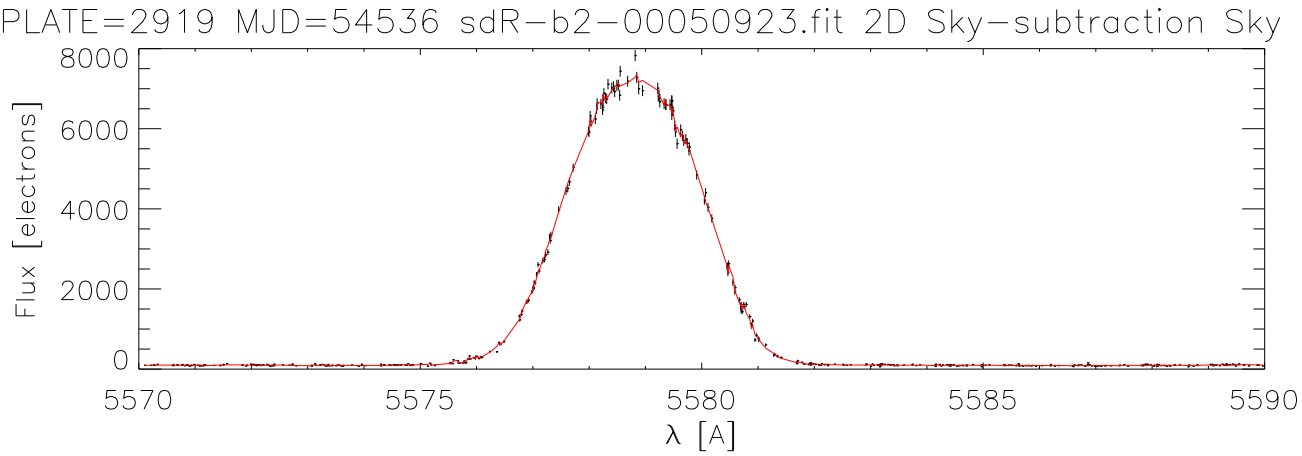

PLATE=2919 MJD=54536 sdR-b2-00050923.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

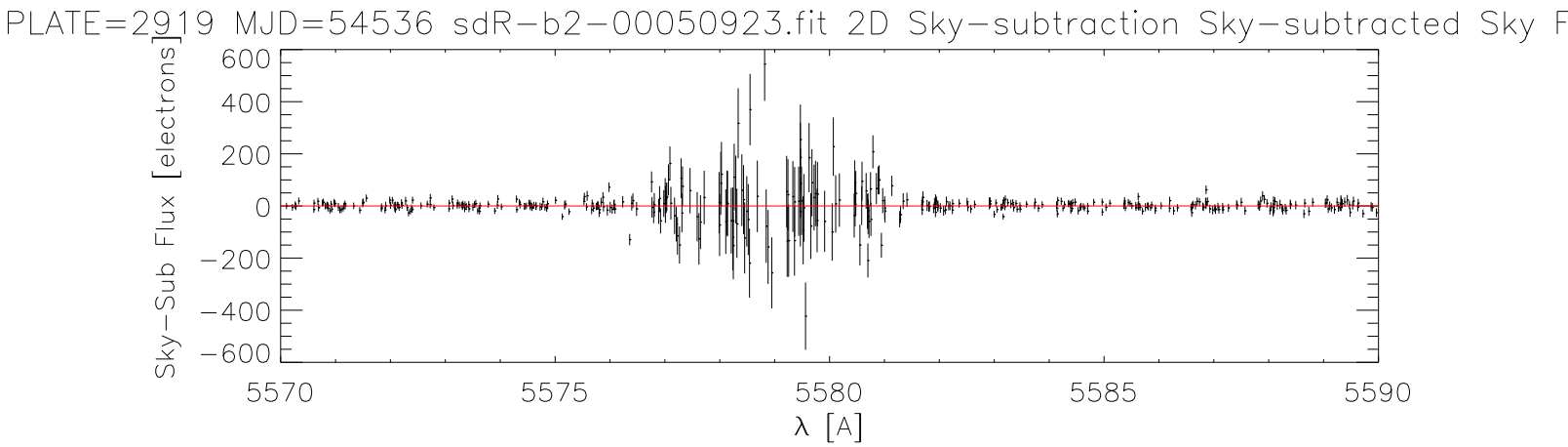

PLATE=2919 MJD=54536 sdR-b2-00050923.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

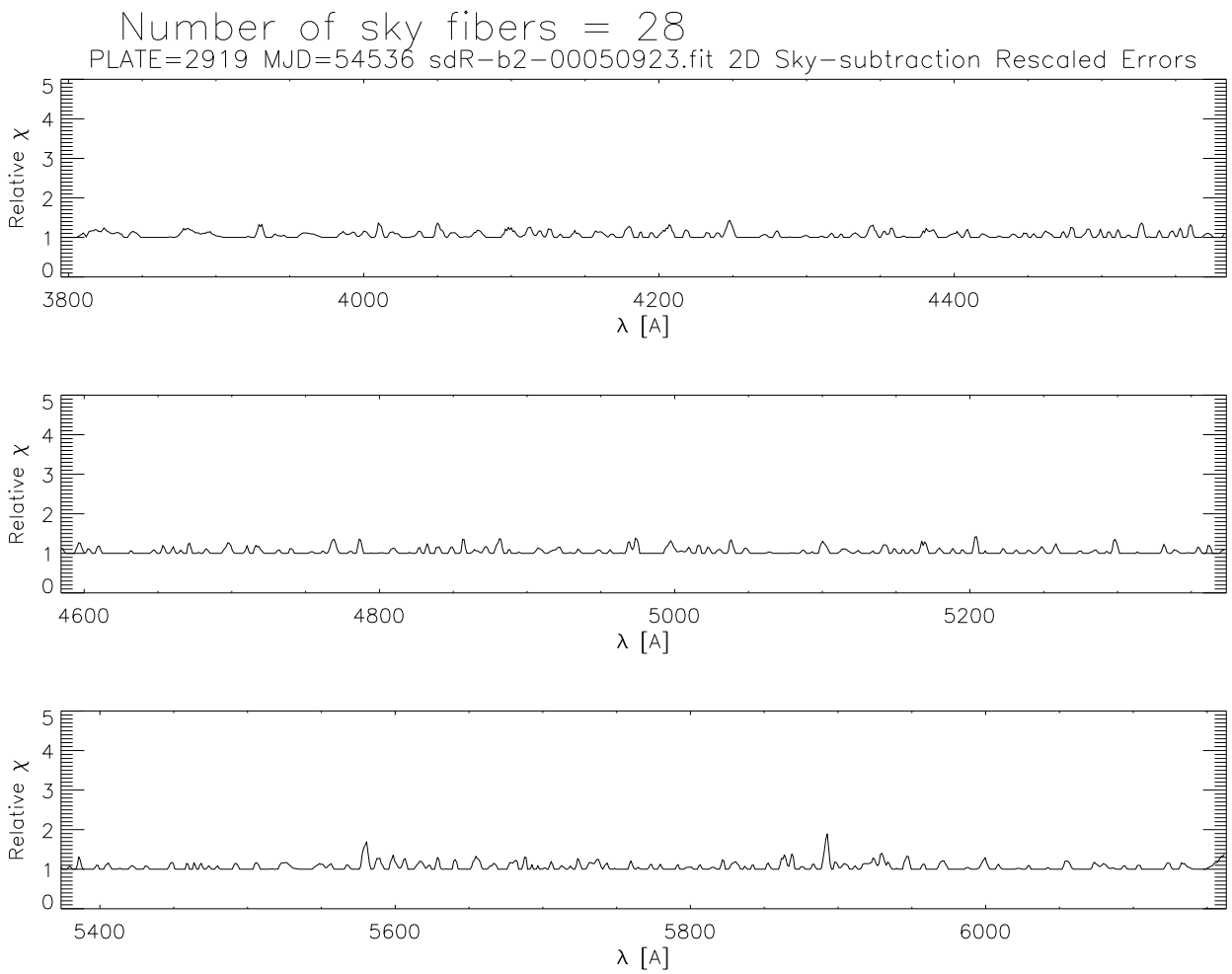

PLATE=2919 MJD=54536 sdR-b2-00050923.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

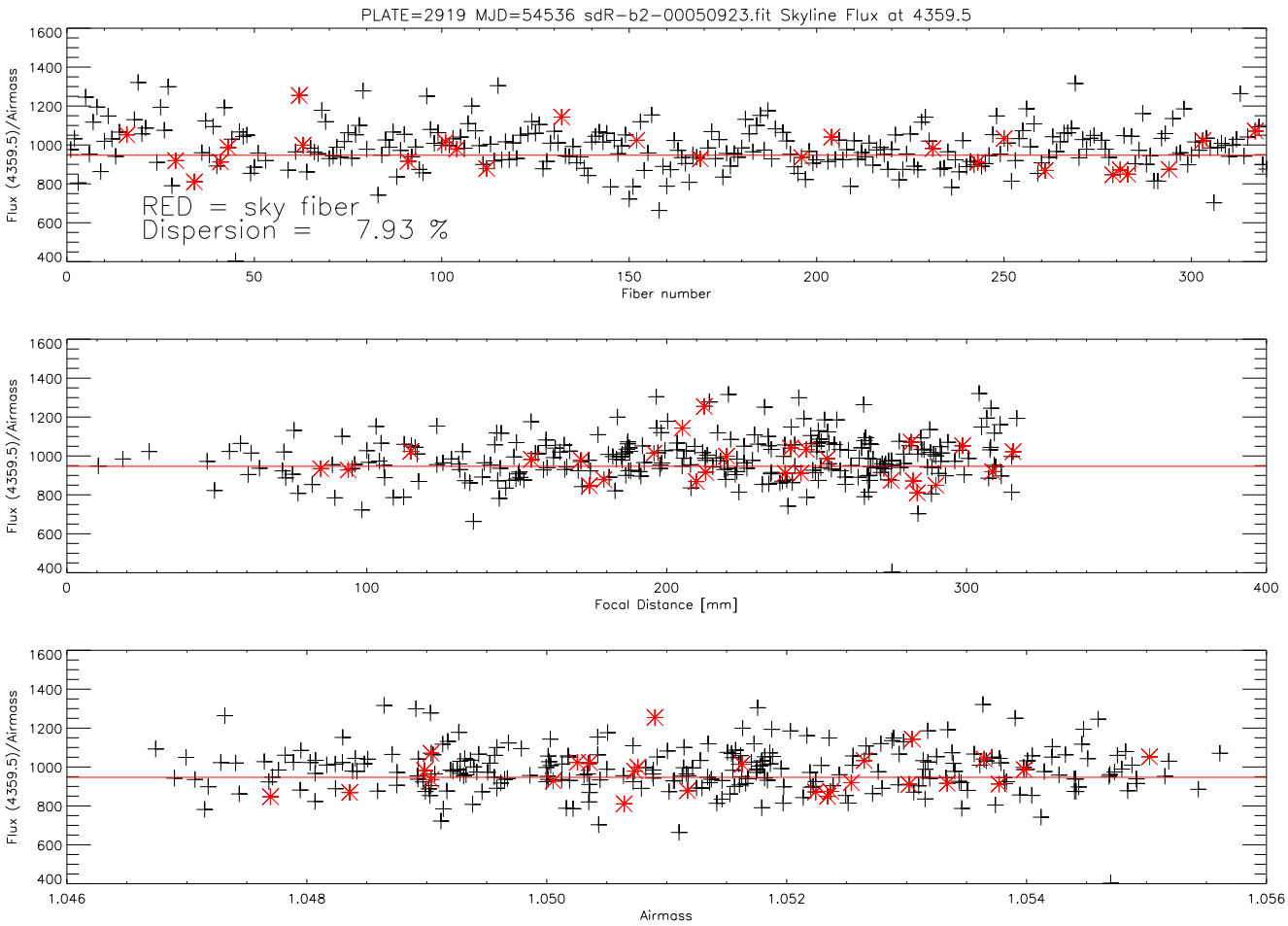

Number of sky fibers = 28
PLATE=2919 MJD=54536 sdR-b2-00050923.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

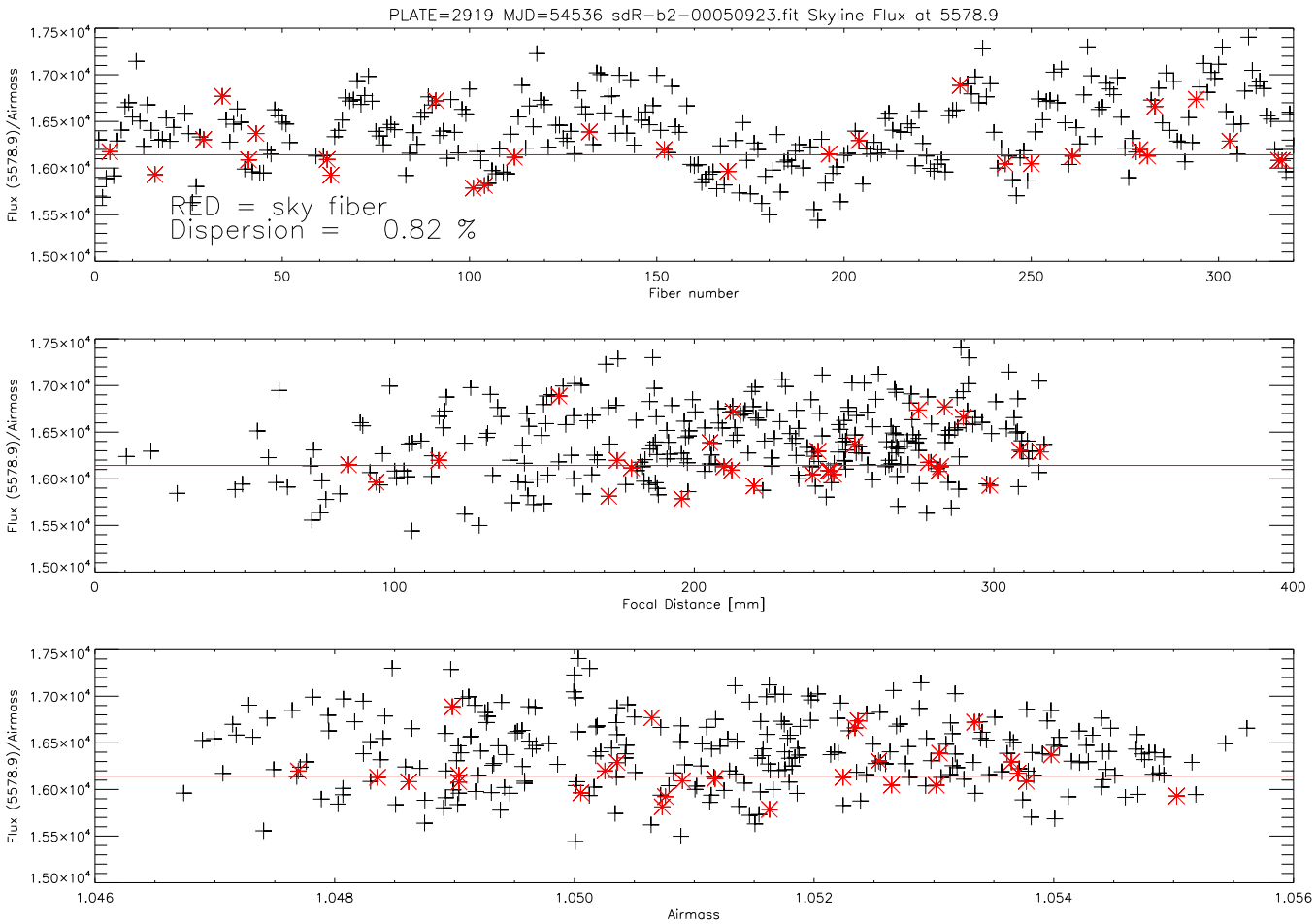

PLATE=2919 MJD=54536 sdR-b2-00050923.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

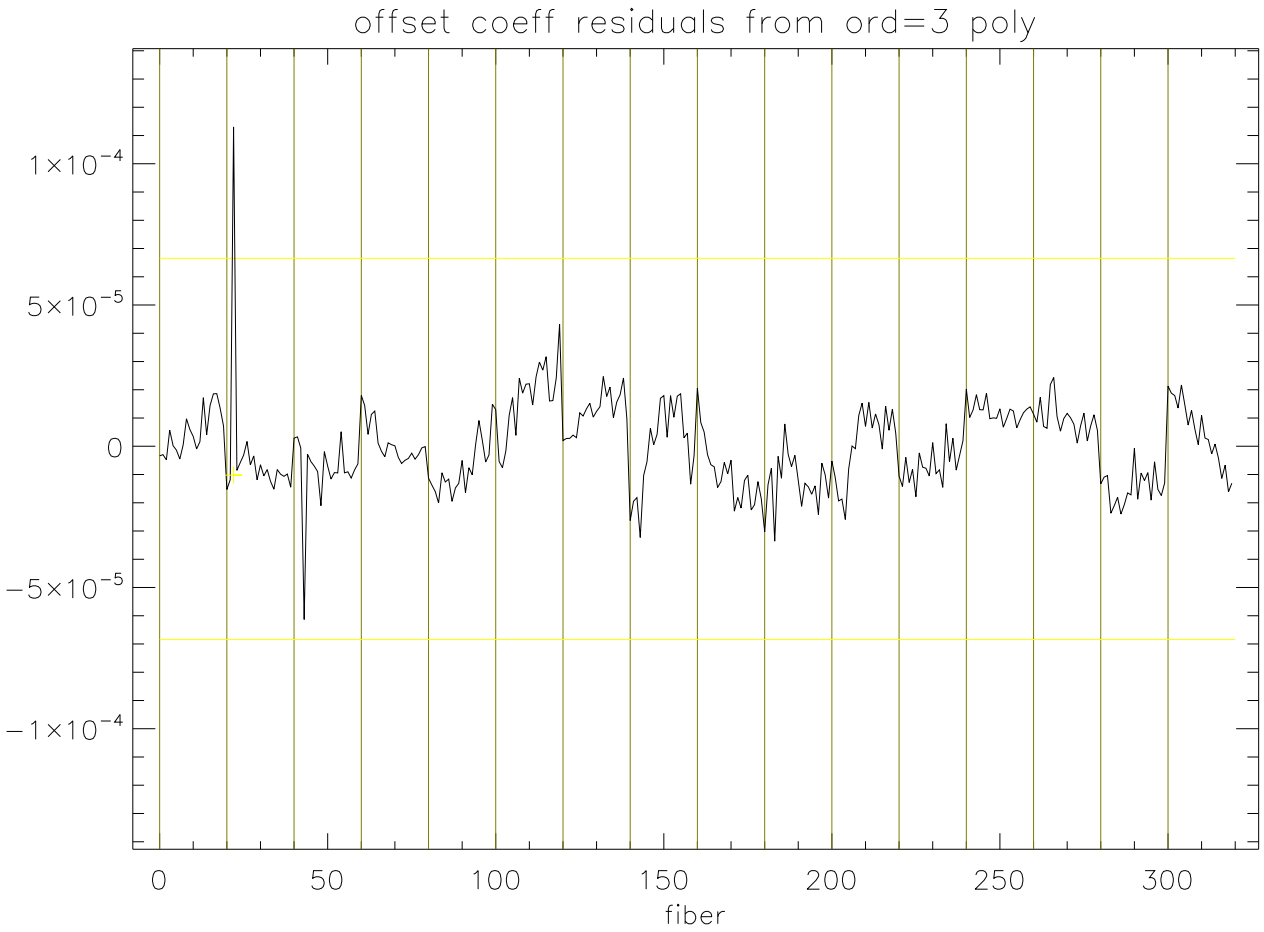

PLATE=2919 MJD=54536 sdR-b2-00050923.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

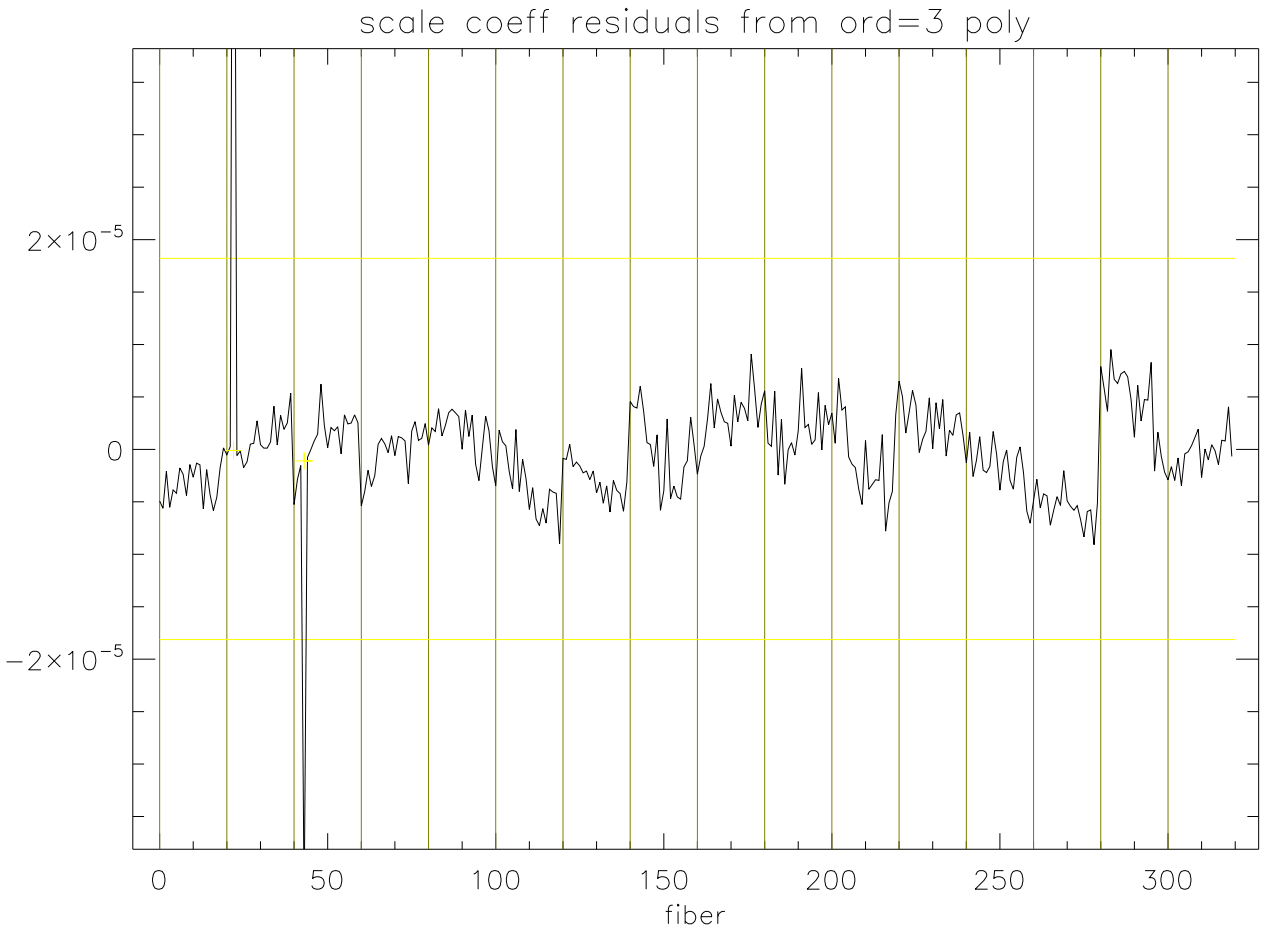

PLATE=2919 MJD=54536 sdR-b2-00050923.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

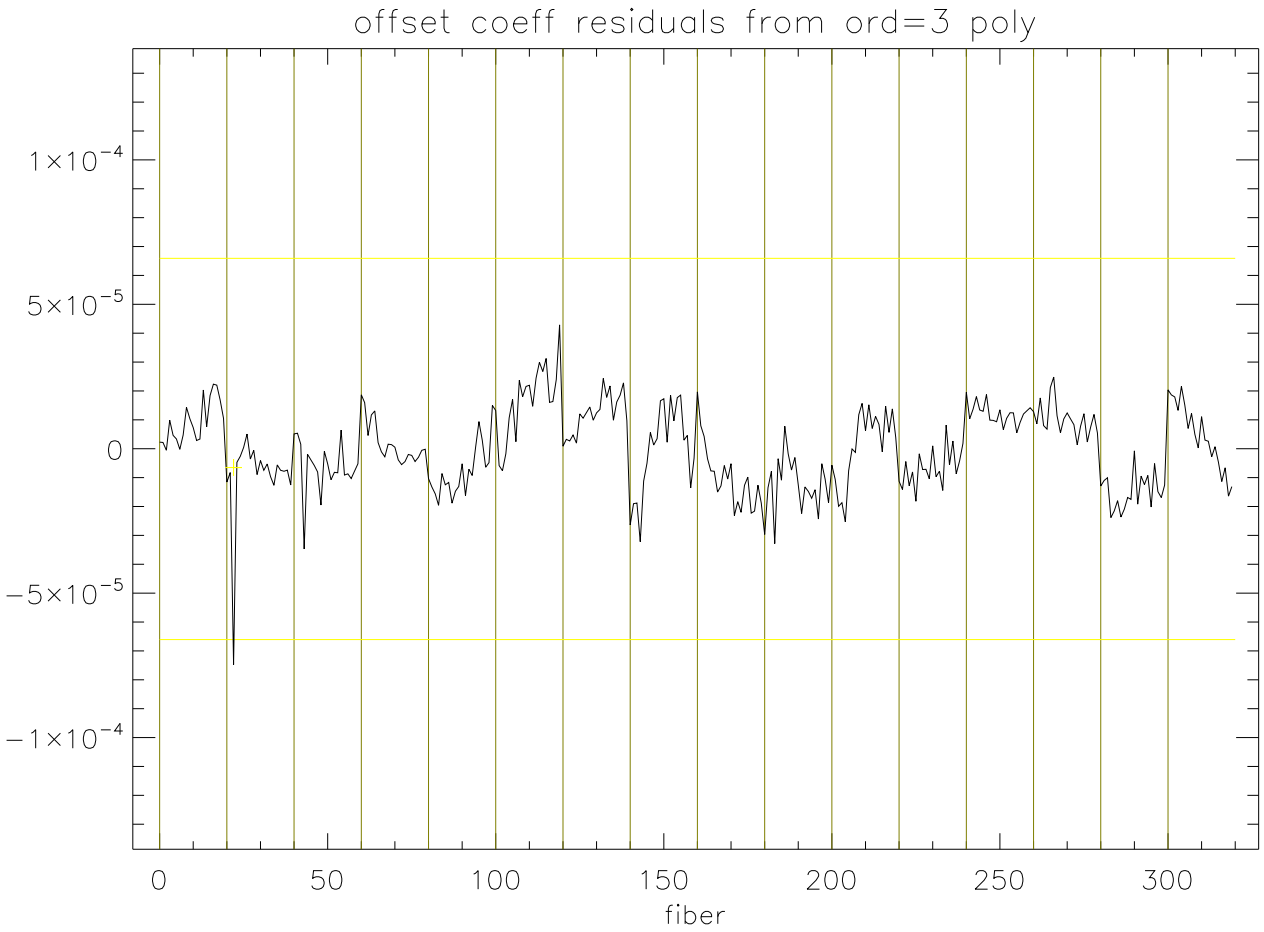

Number of sky fibers = 28
PLATE=2919 MJD=54536 sdR-b2-00050923.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

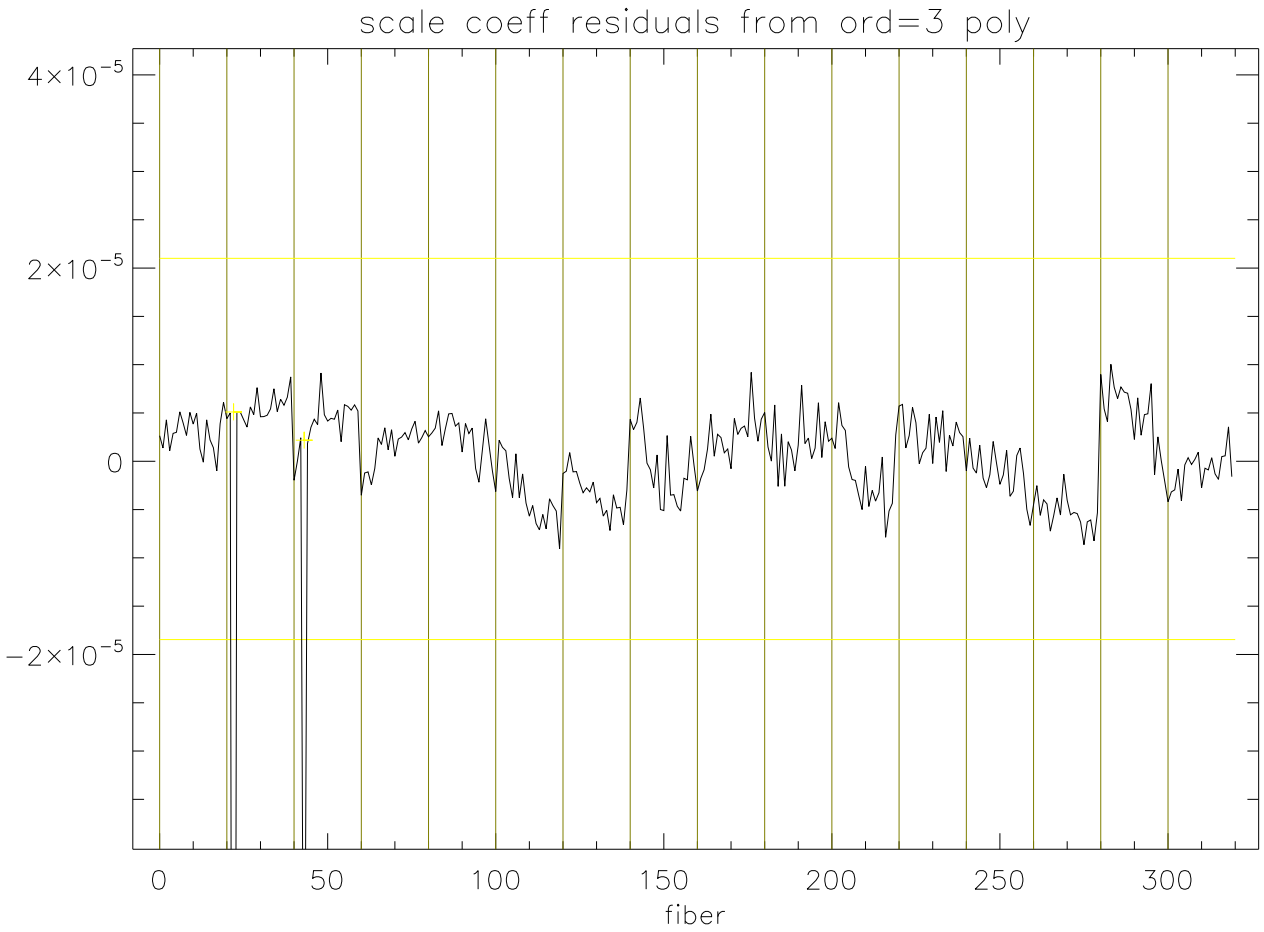

PLATE=2919 MJD=54536 sdR-b2-00050923.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 7.93 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

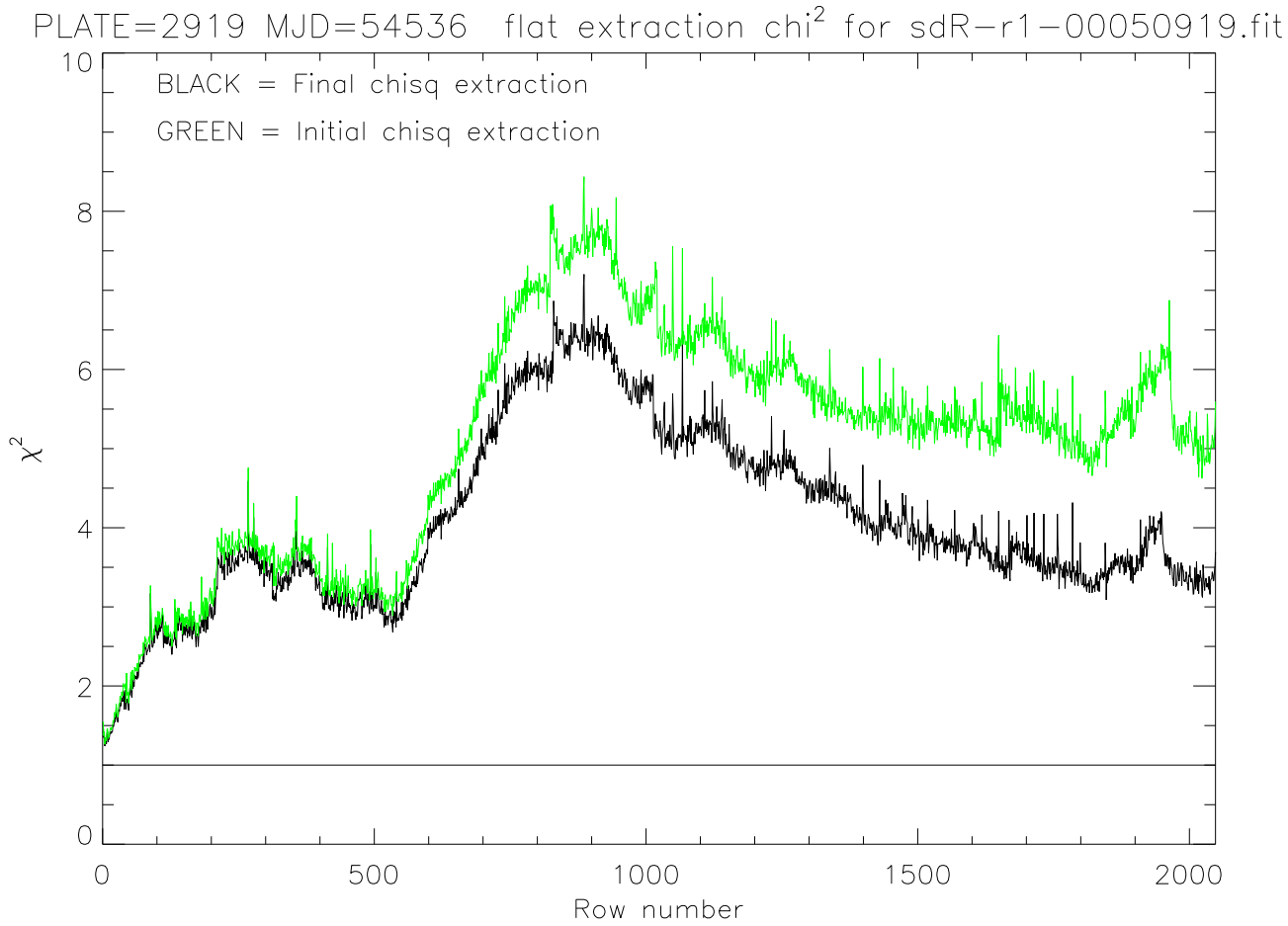

PLATE=2919 MJD=54536 sdR-b2-00050923.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.75×10^4
1.70×10^4
1.65×10^4
1.60×10^4
1.55×10^4
1.50×10^4
RED = sky fiber
Dispersion = 0.82 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1.75×10^4
1.70×10^4
1.65×10^4
1.60×10^4
1.55×10^4
1.50×10^4
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.75×10^4
1.70×10^4
1.65×10^4
1.60×10^4
1.55×10^4
1.50×10^4
1.046
1.048
1.050
1.052
1.054
1.056
Airmass

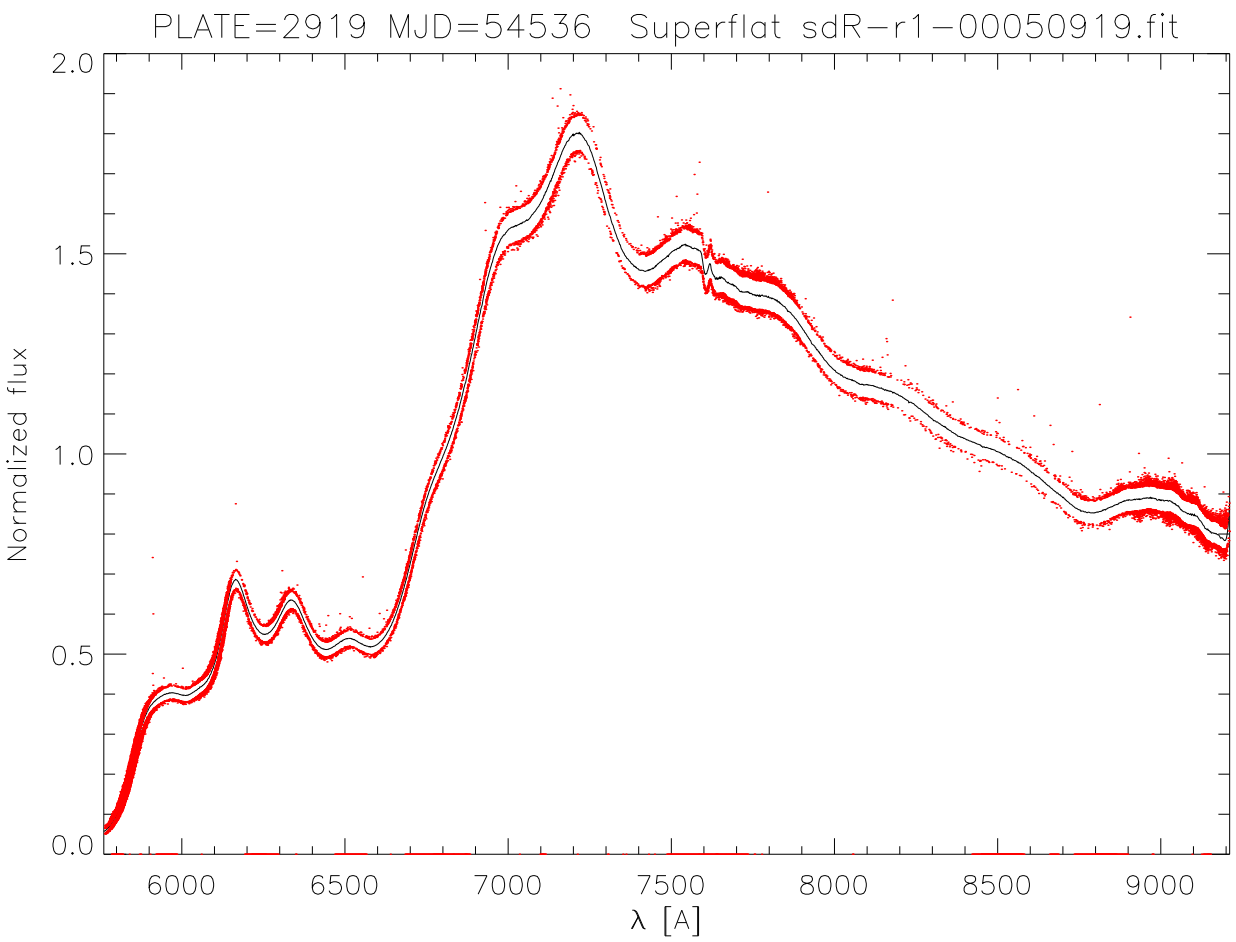

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

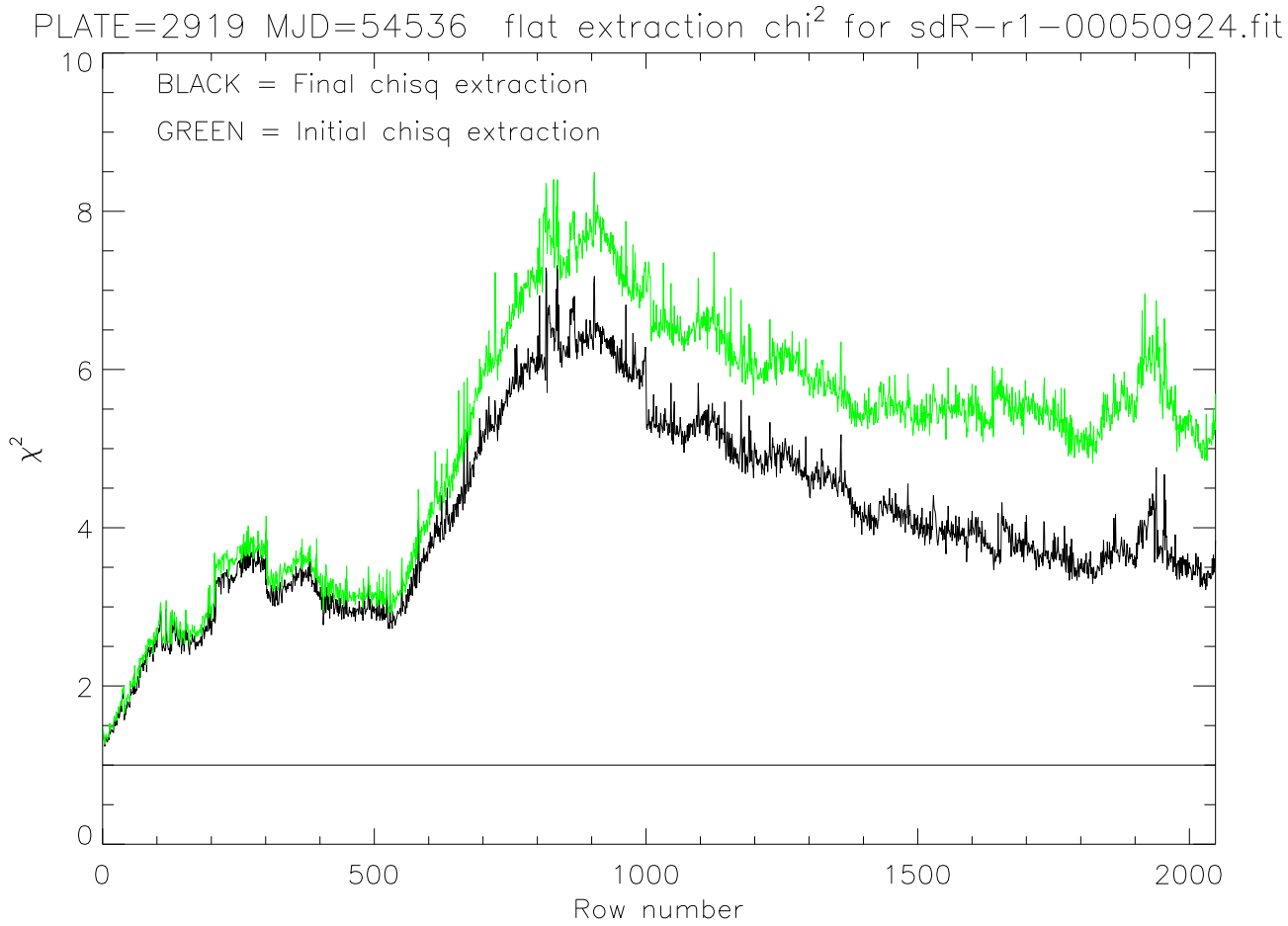

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

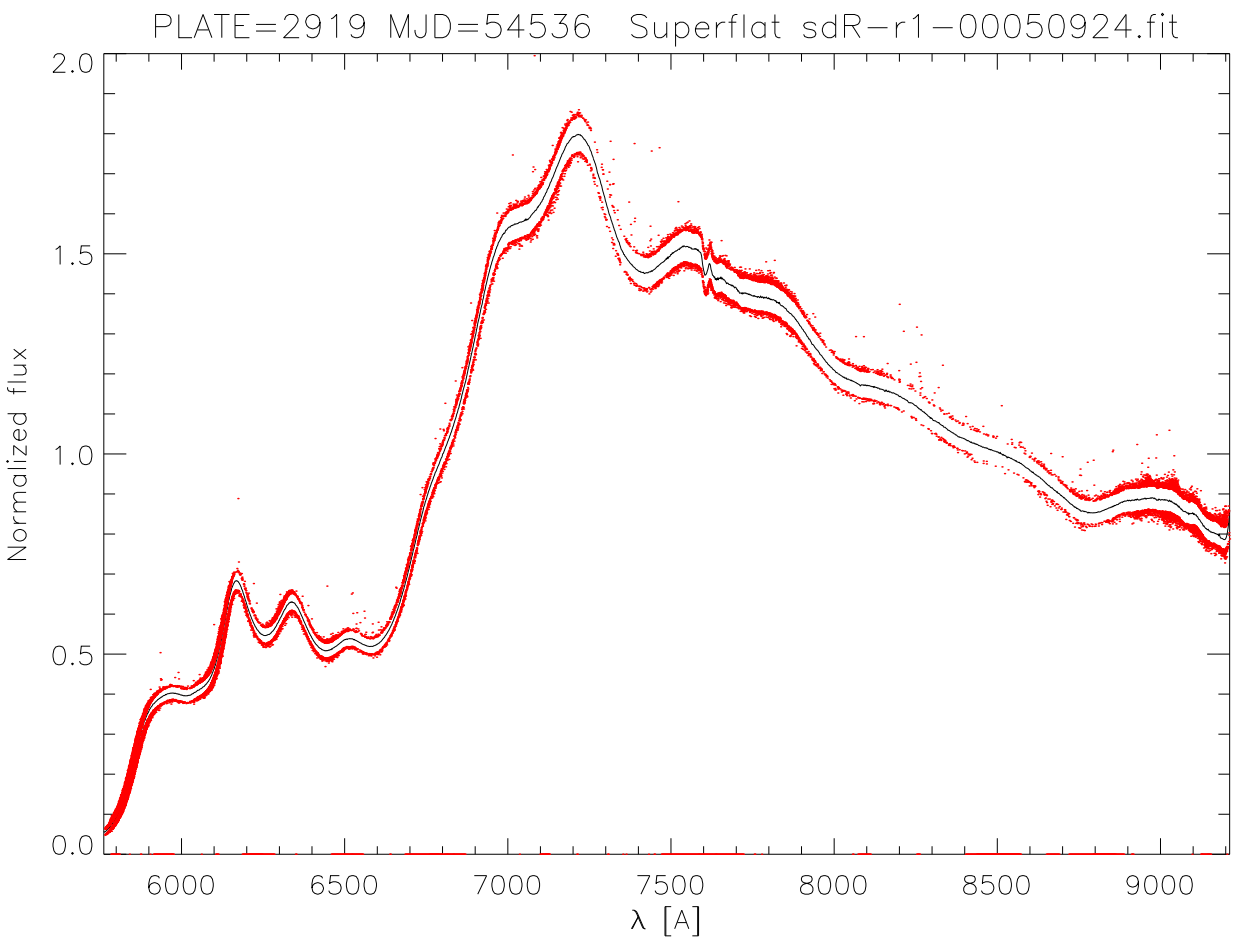

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

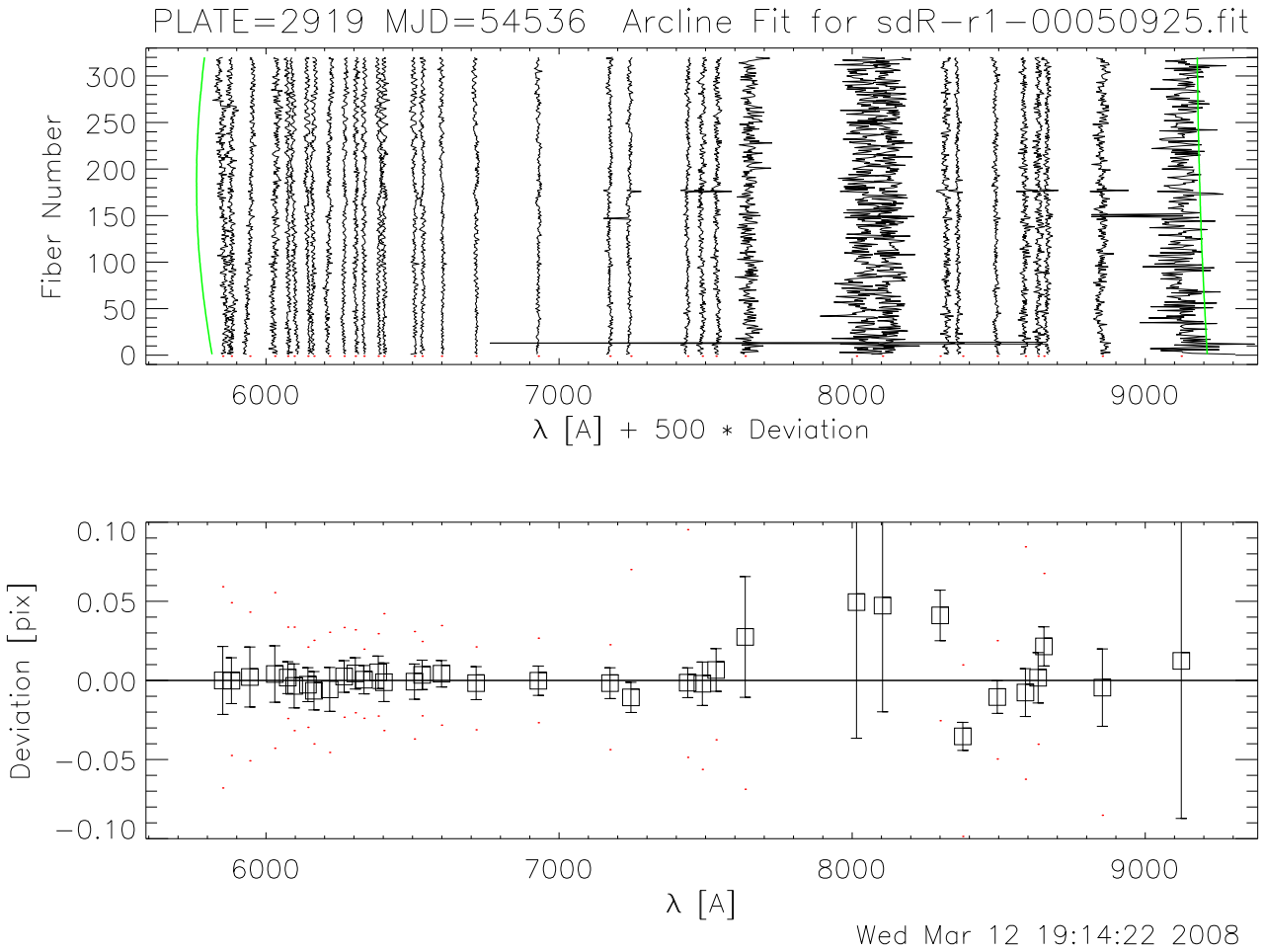

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

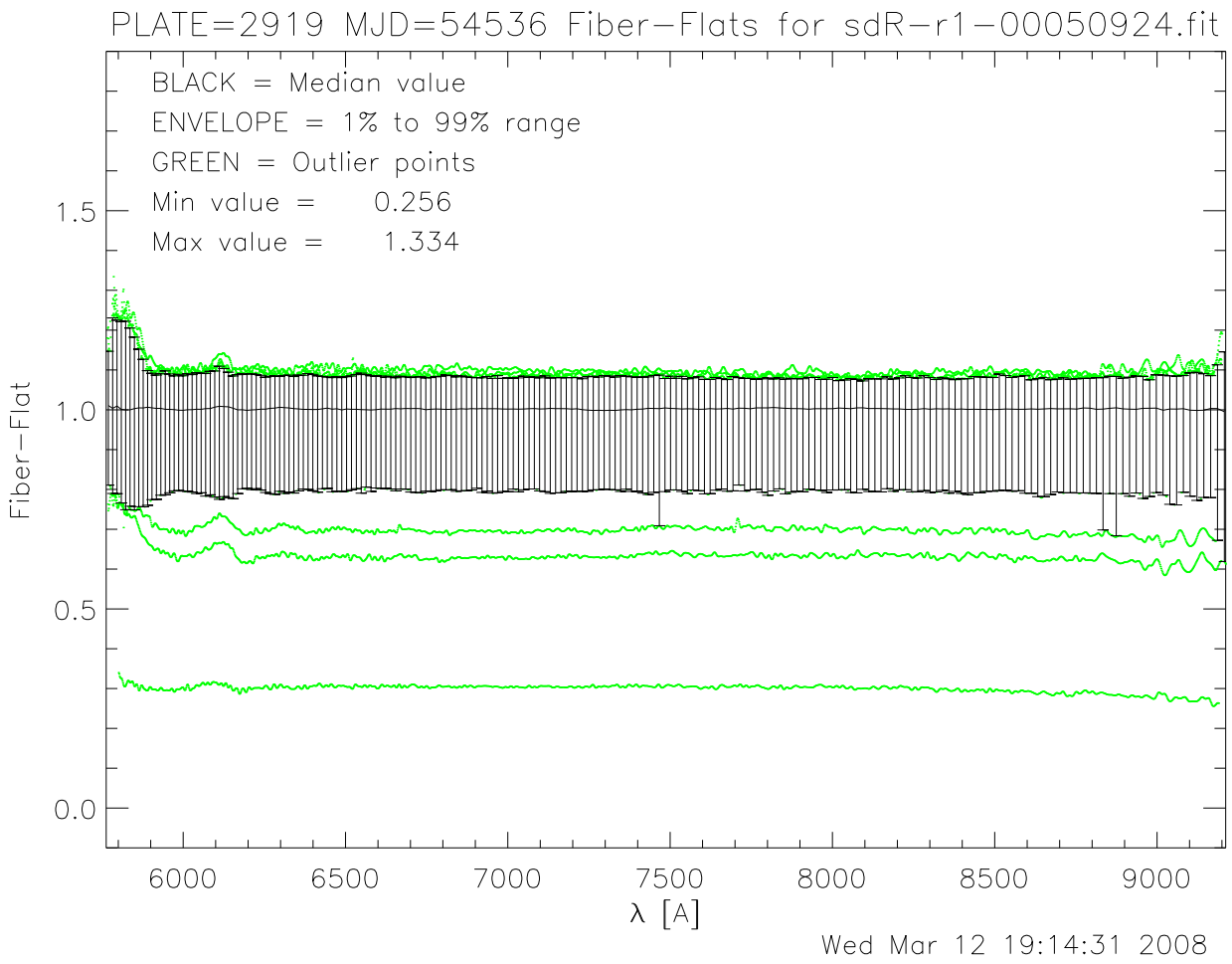

PLATE=2919 MJD=54536 flat extraction chi^2 for sdR−r1−00050919.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

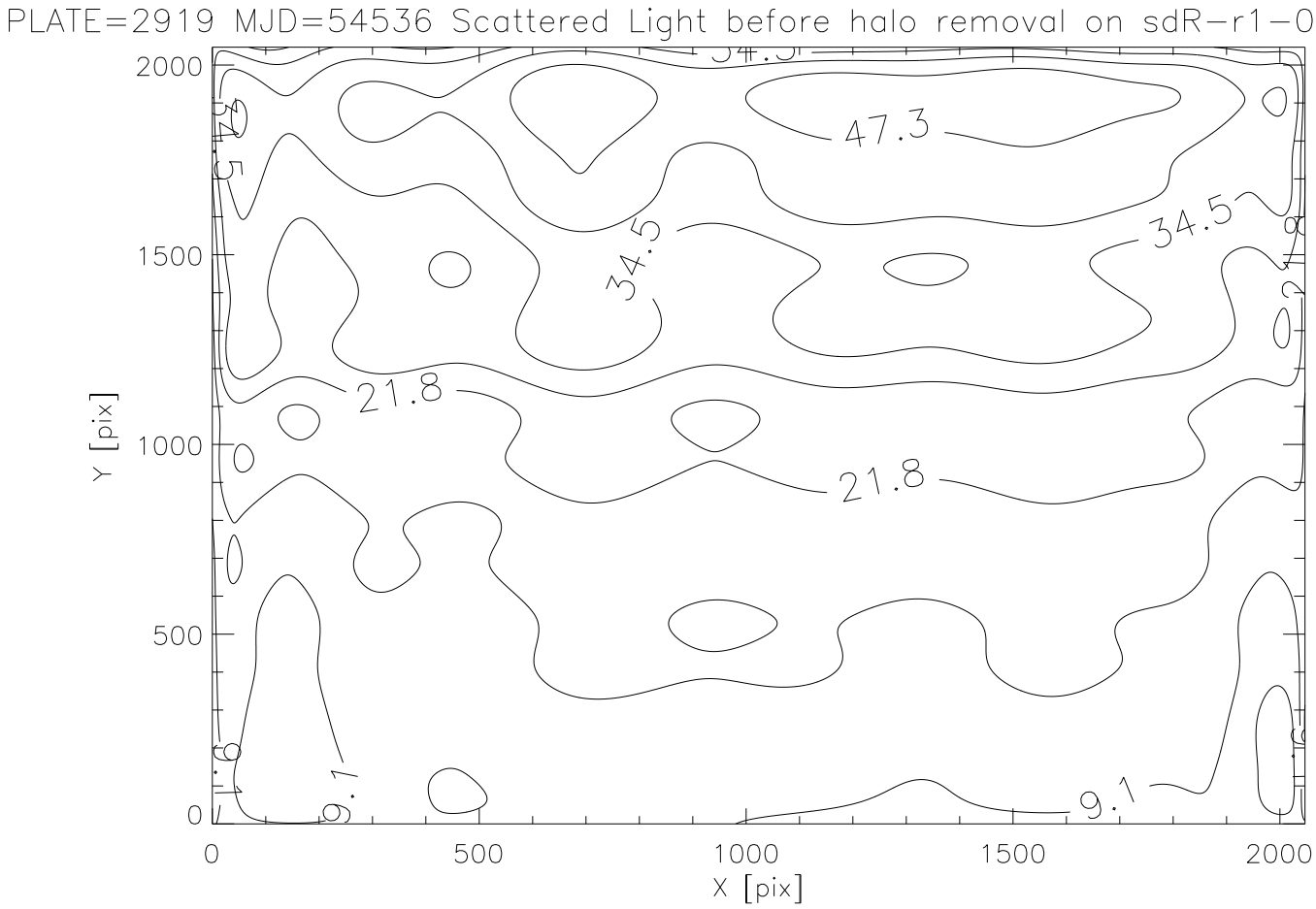

PLATE=2919 MJD=54536 Superflat sdR-r1-00050919.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

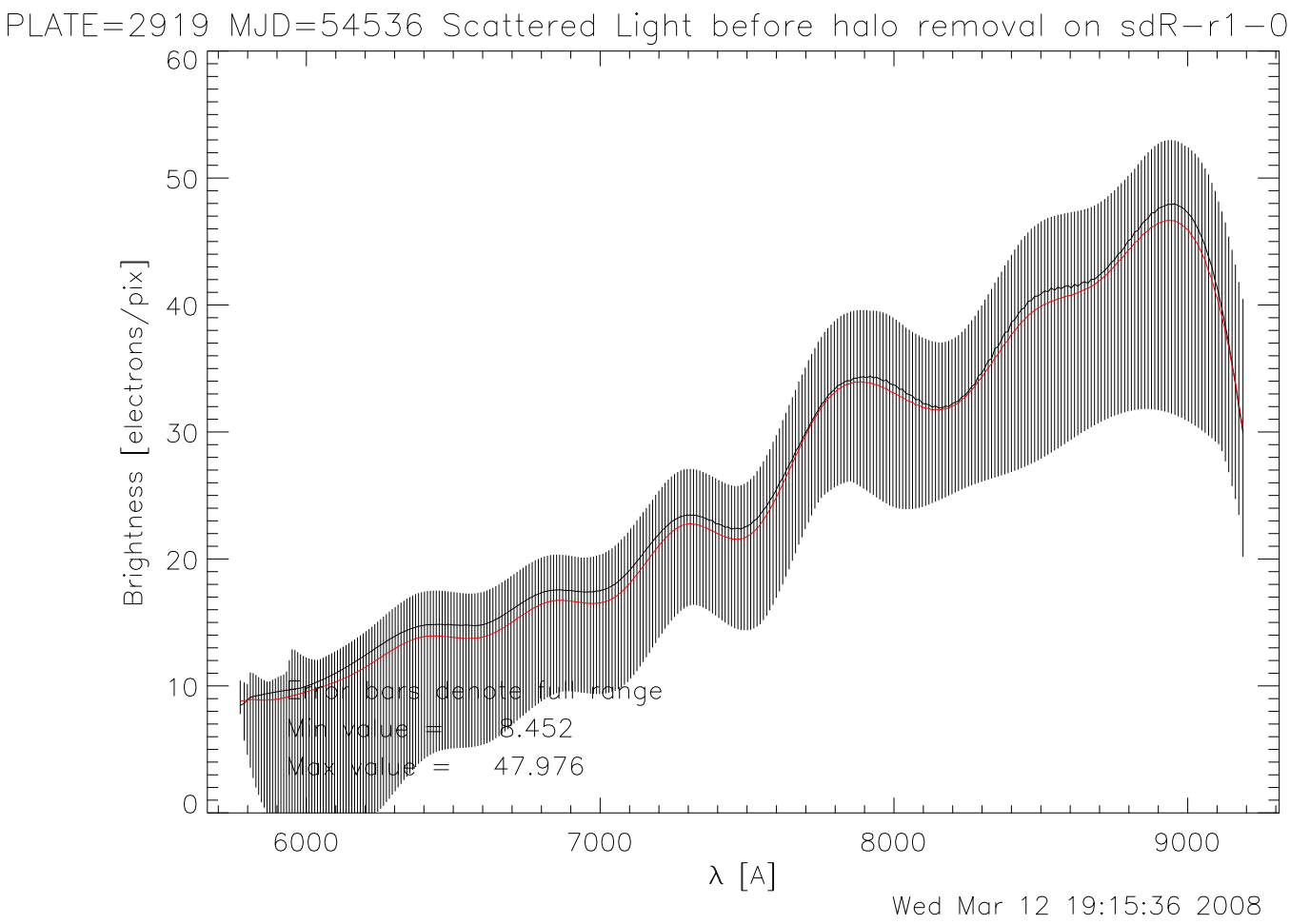

PLATE=2919 MJD=54536 flat extraction chi^2 for sdR−r1−00050924.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

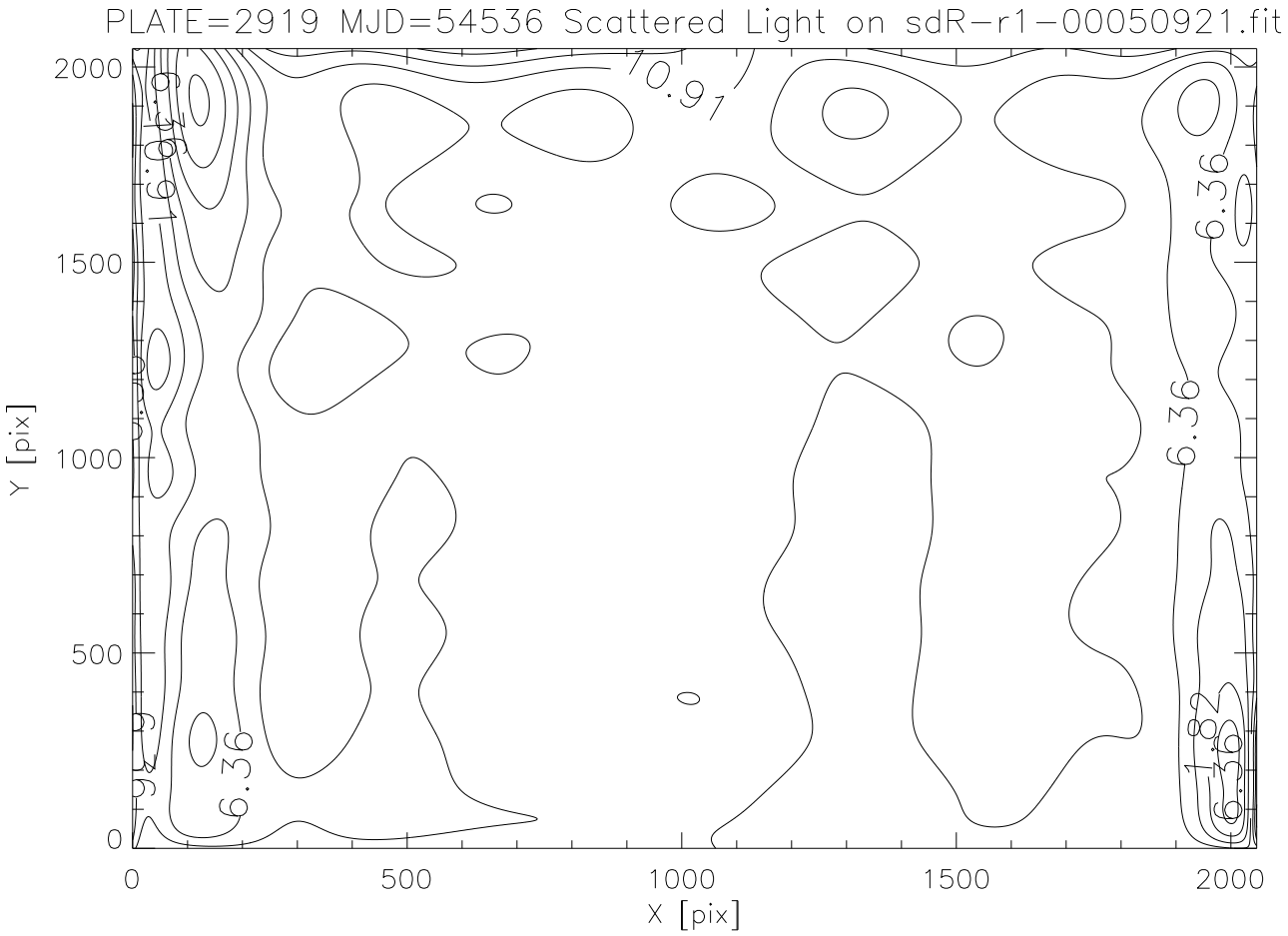

PLATE=2919 MJD=54536 Superflat sdR-r1-00050924.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

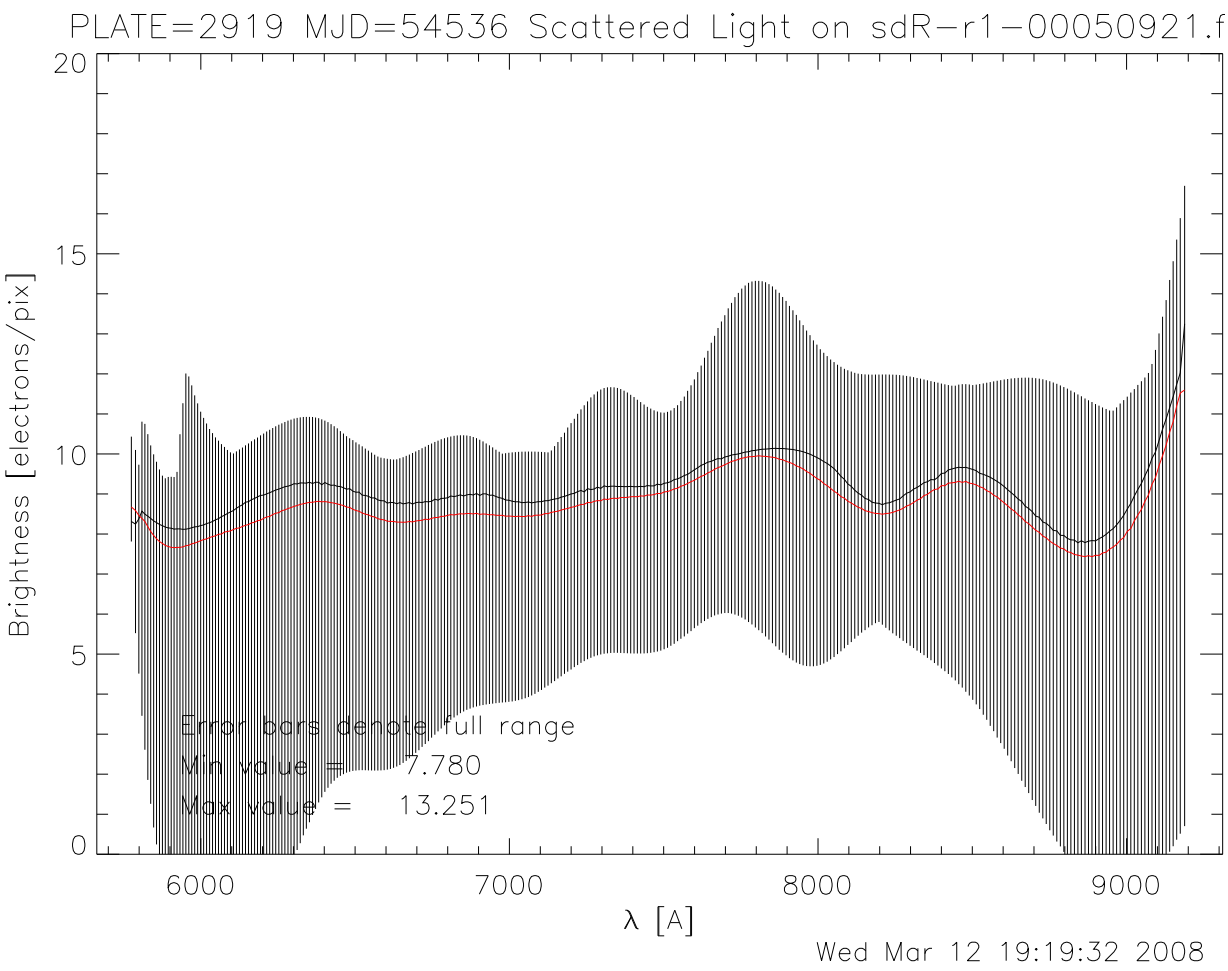

PLATE=2919 MJD=54536 Arcline Fit for sdR-r1-00050925.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Wed Mar 12 19:14:22 2008

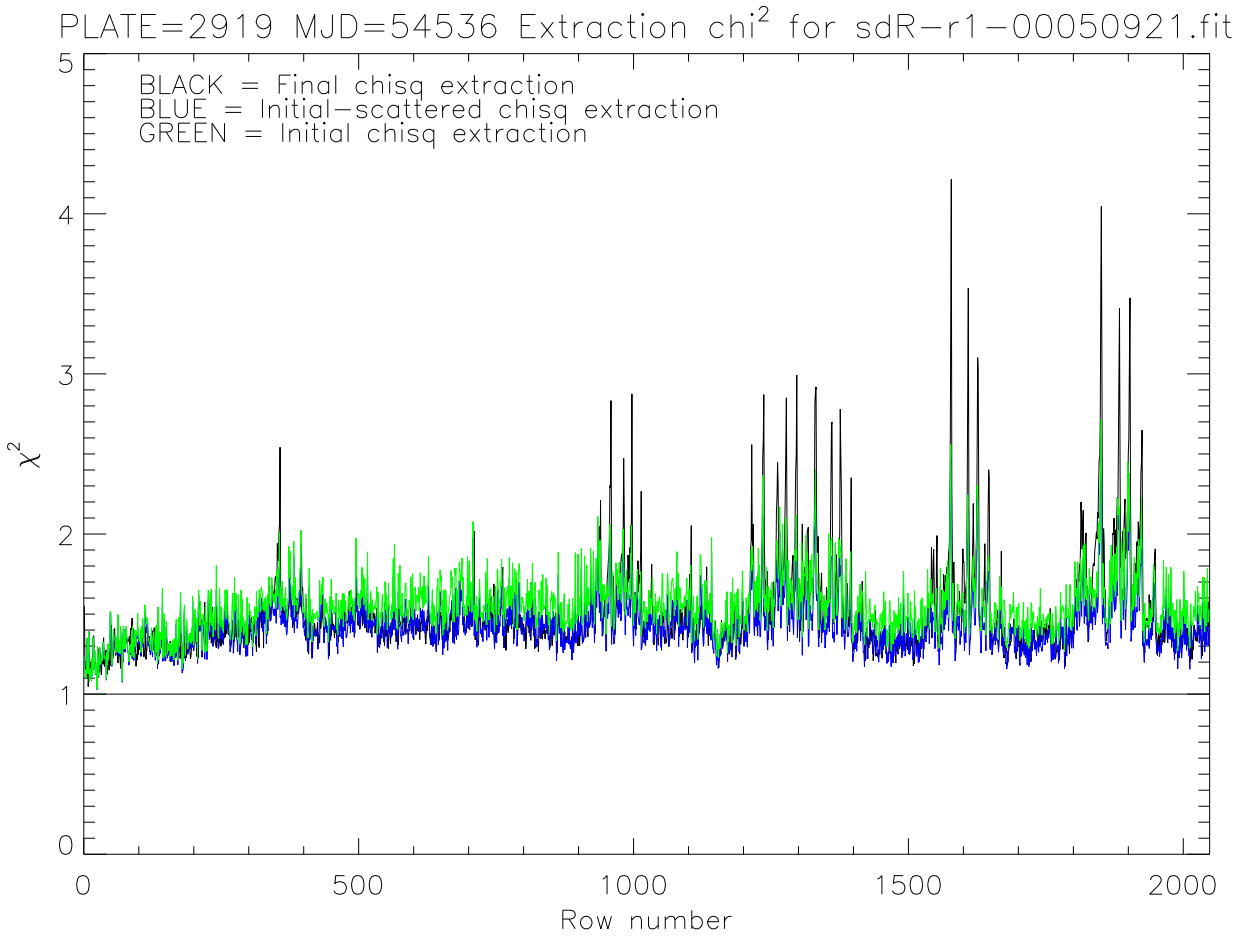

PLATE=2919 MJD=54536 Fiber−Flats for sdR−r1−00050924.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.256
Max value = 1.334
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 19:14:31 2008

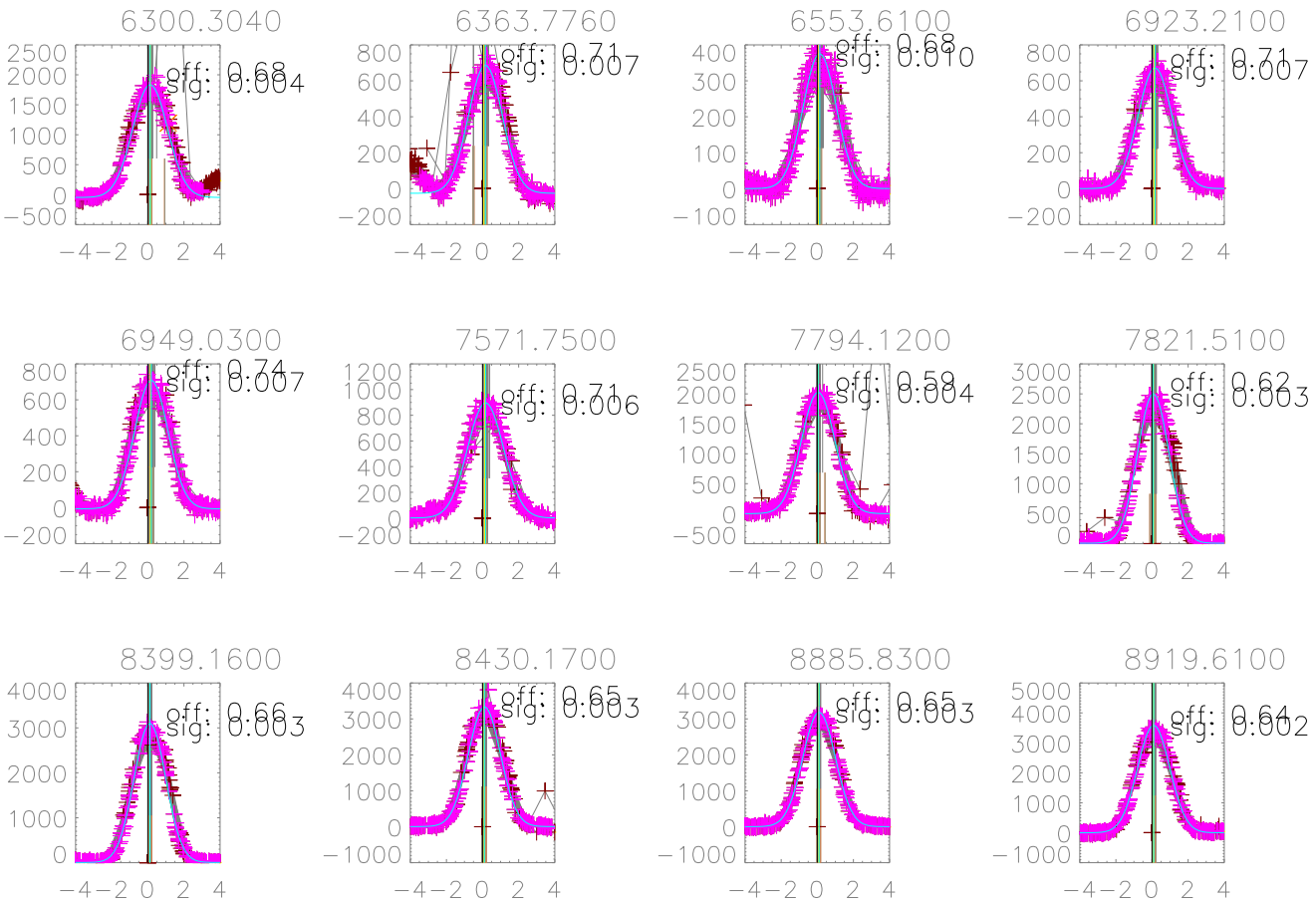

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR−r1−00050921.fi
47.3
34.5
34.5
34.5
21.8
21.8
9.1
9.1
0
500
1000
1500
2000
Y [pix]
X [pix]

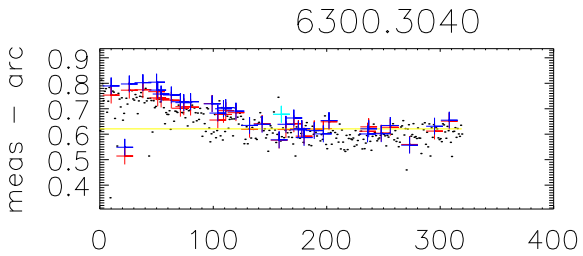

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR-r1-00050921.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.452
Max value = 47.976
Wed Mar 12 19:15:36 2008

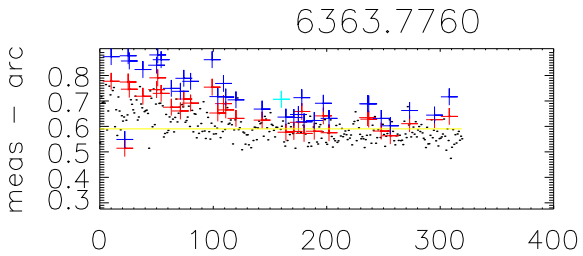

PLATE=2919 MJD=54536 Scattered Light on sdR−r1−00050921.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.91
6.36
0
1.82

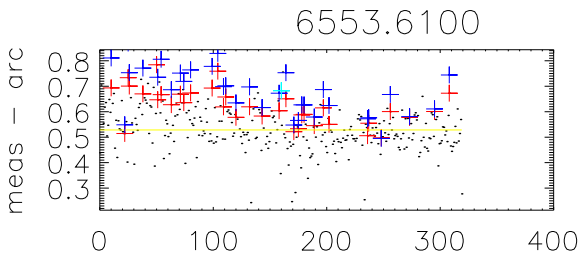

PLATE=2919 MJD=54536 Scattered Light on sdR-r1-00050921.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.780
Max value = 13.251
Wed Mar 12 19:19:32 2008

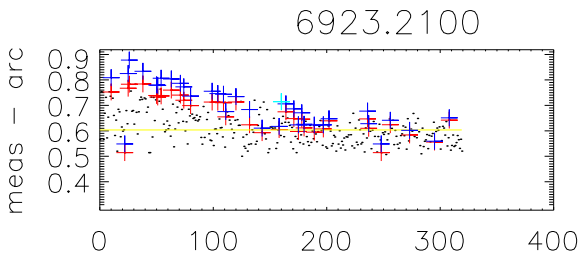

PLATE=2919 MJD=54536 Extraction chi^2 for sdR−r1−00050921.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

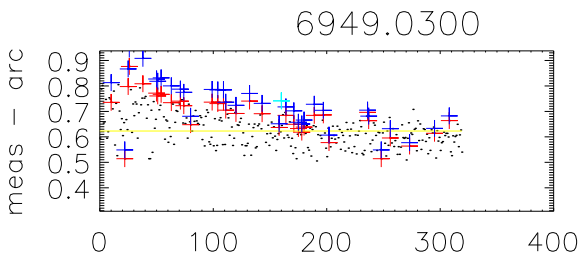

6300.3040
off: 0.68
sig: 0.004
6363.7760
off: 0.71
sig: 0.007
6553.6100
off: 0.68
sig: 0.010
6923.2100
off: 0.71
sig: 0.007
6949.0300
off: 0.74
sig: 0.007
7571.7500
off: 0.71
sig: 0.006
7794.1200
off: 0.58
sig: 0.004
7821.5100
off: 0.62
sig: 0.003
8399.1600
off: 0.66
sig: 0.003
8430.1700
off: 0.65
sig: 0.003
8885.8300
off: 0.65
sig: 0.003
8919.6100
off: 0.64
sig: 0.002

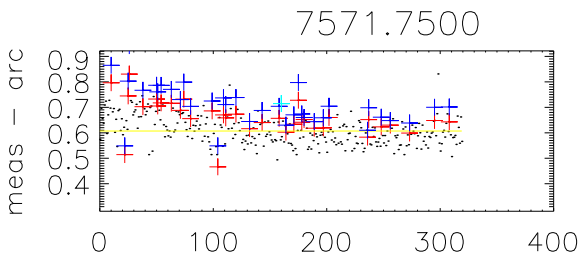

6300.3040
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

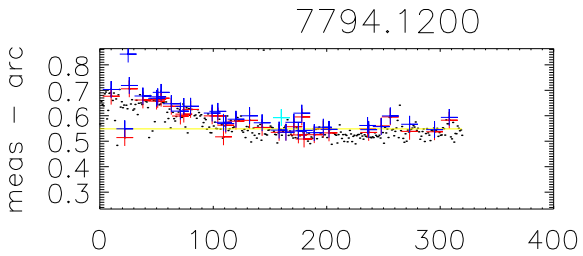

6363.7760
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

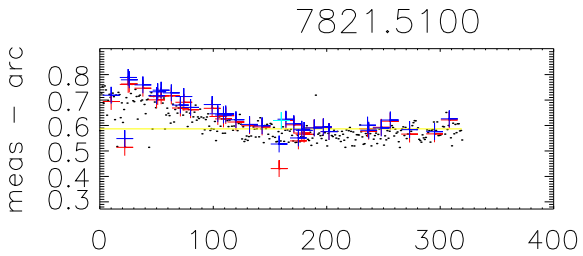

6553.6100
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

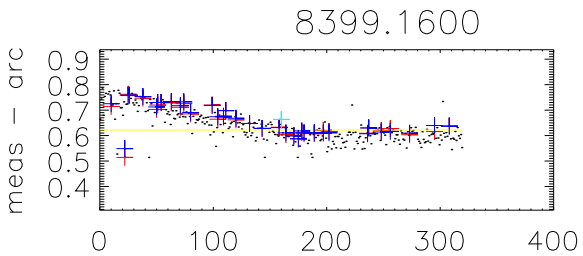

6923.2100
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

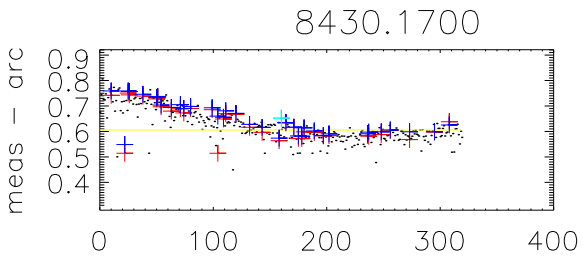

6949.0300
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

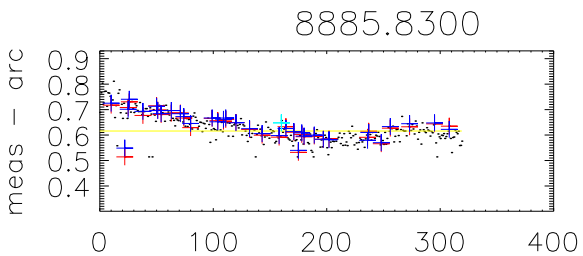

7571.7500
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

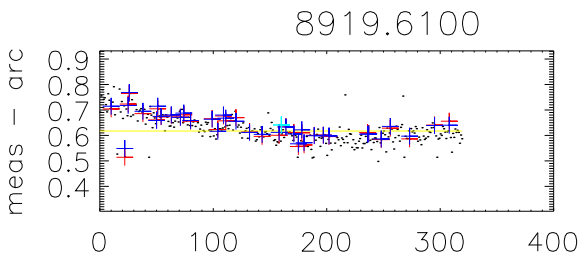

7794.1200
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

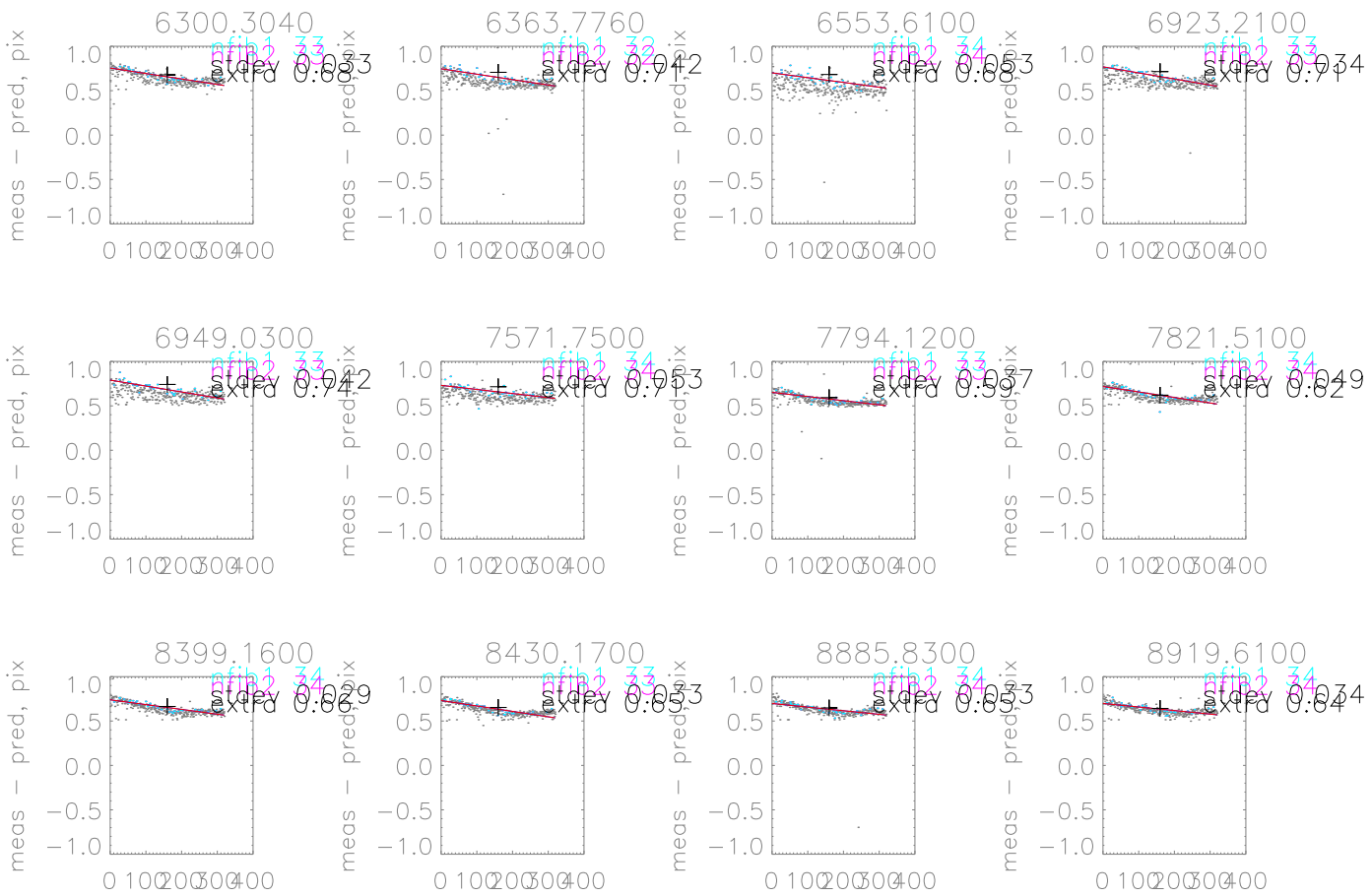

7821.5100
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

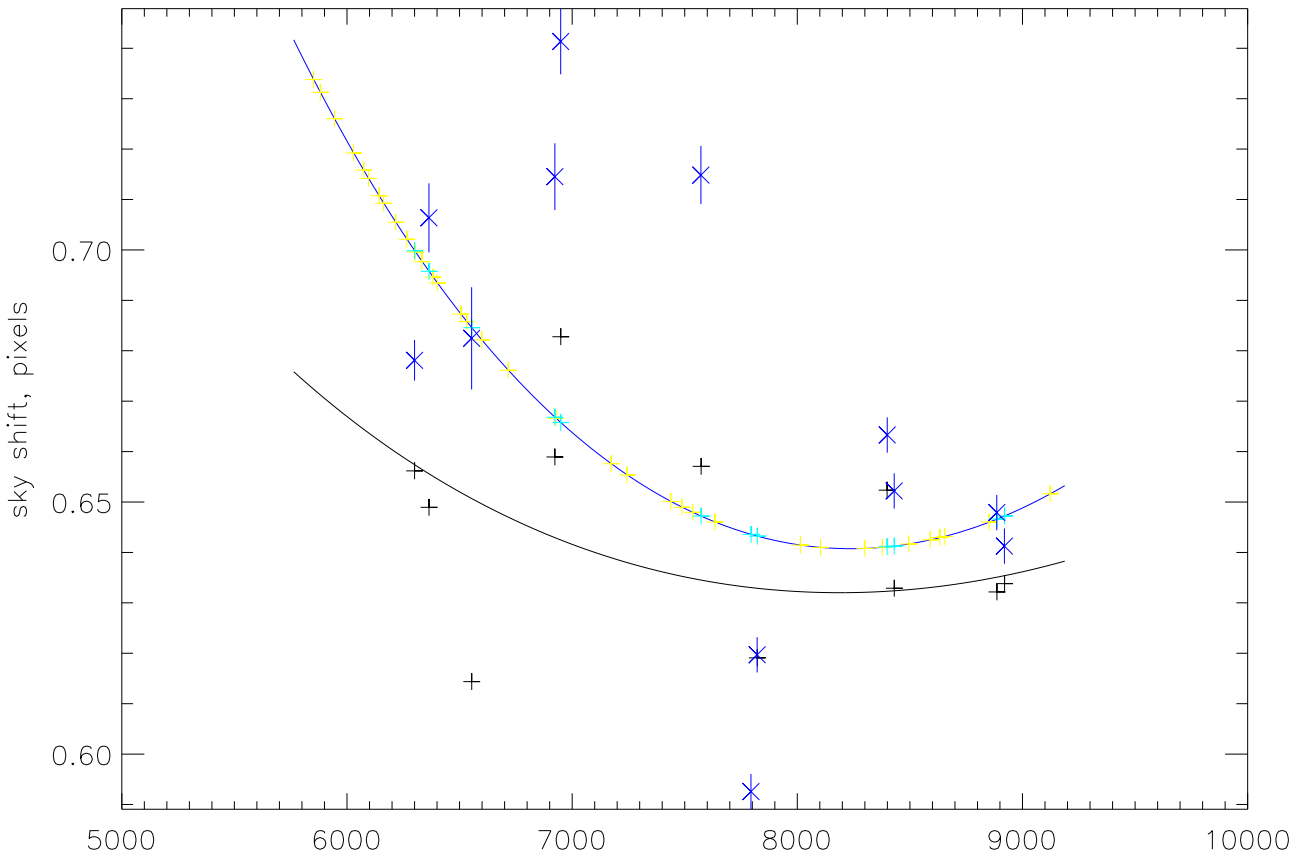

8399.1600
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

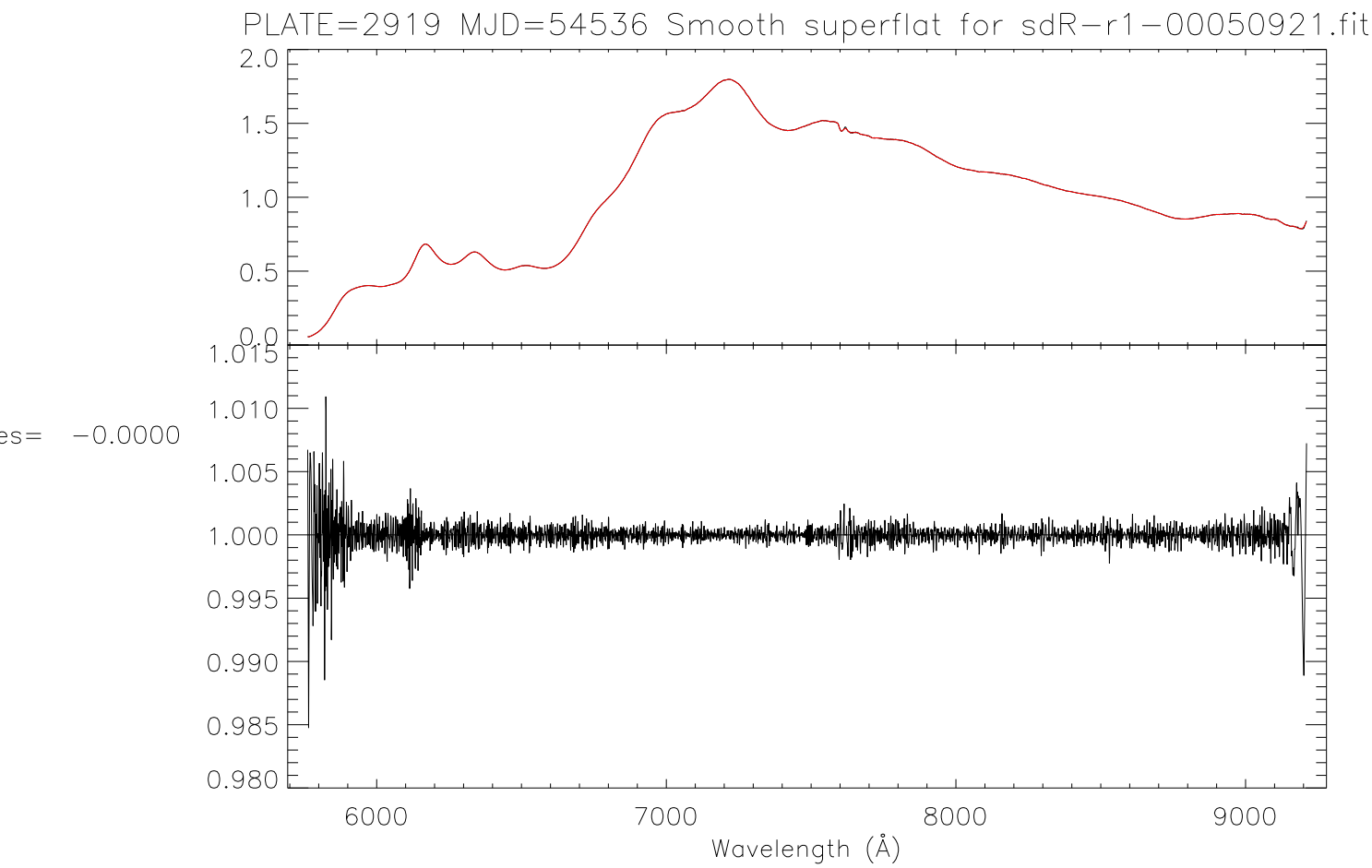

8430.1700
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

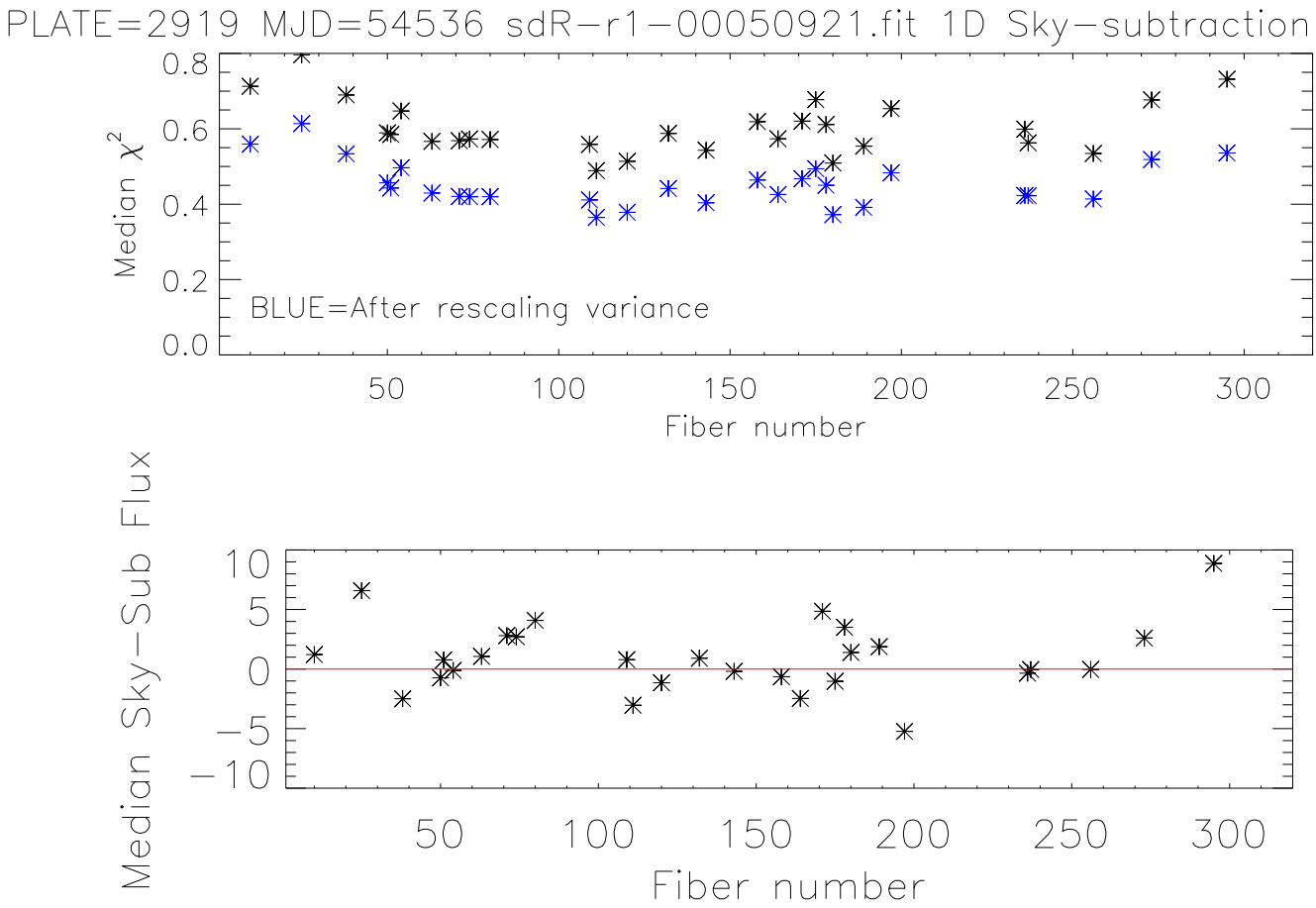

8885.8300
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

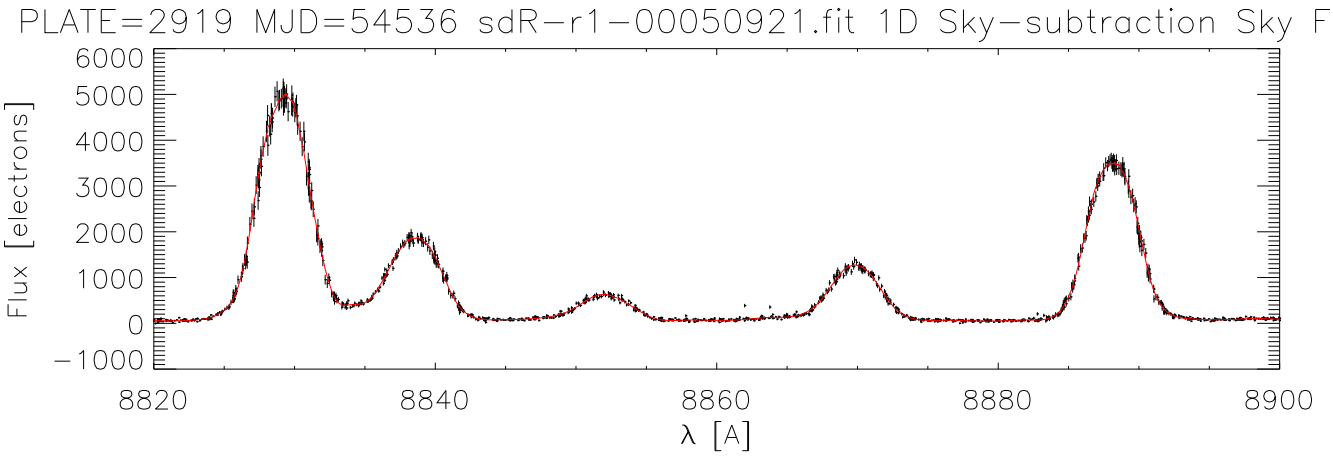

8919.6100
meas − arc
0.9
0.8
0.7
0.6
0.5
0.4
0
100
200
300
400

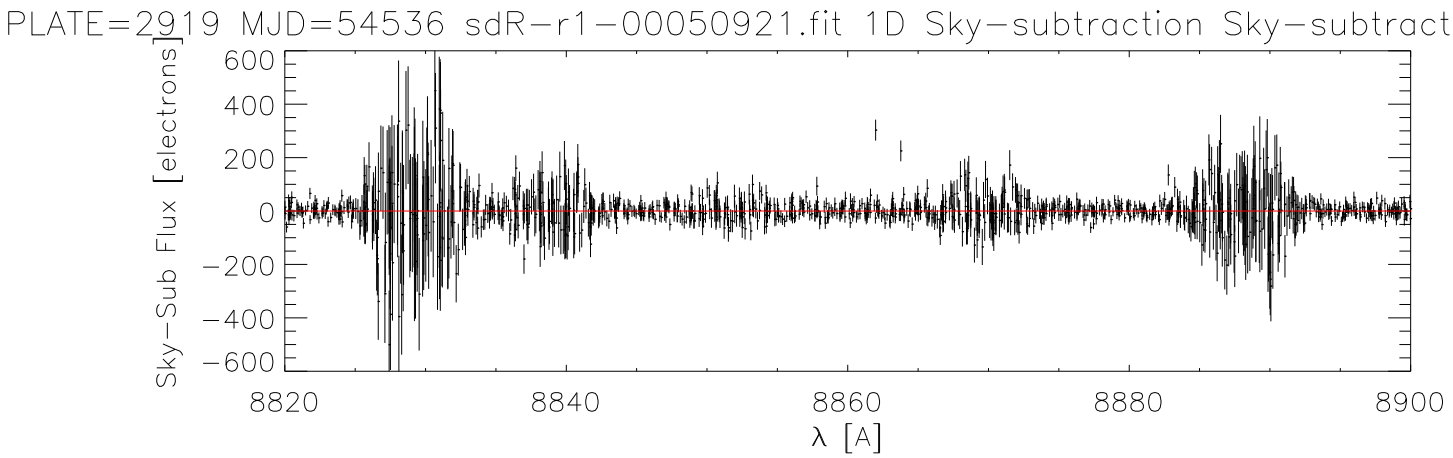

6300.3040
stdev 0.033
extra 0.68
6363.7760
stdev 0.042
extra 0.74
6553.6100
stdev 0.053
extra 0.68
6923.2100
stdev 0.034
extra 0.71
6949.0300
stdev 0.042
extra 0.74
7571.7500
stdev 0.053
extra 0.71
7794.1200
stdev 0.037
extra 0.59
7821.5100
stdev 0.049
extra 0.62
8399.1600
stdev 0.029
extra 0.66
8430.1700
stdev 0.033
extra 0.65
8885.8300
stdev 0.033
extra 0.65
8919.6100
stdev 0.034
extra 0.64
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

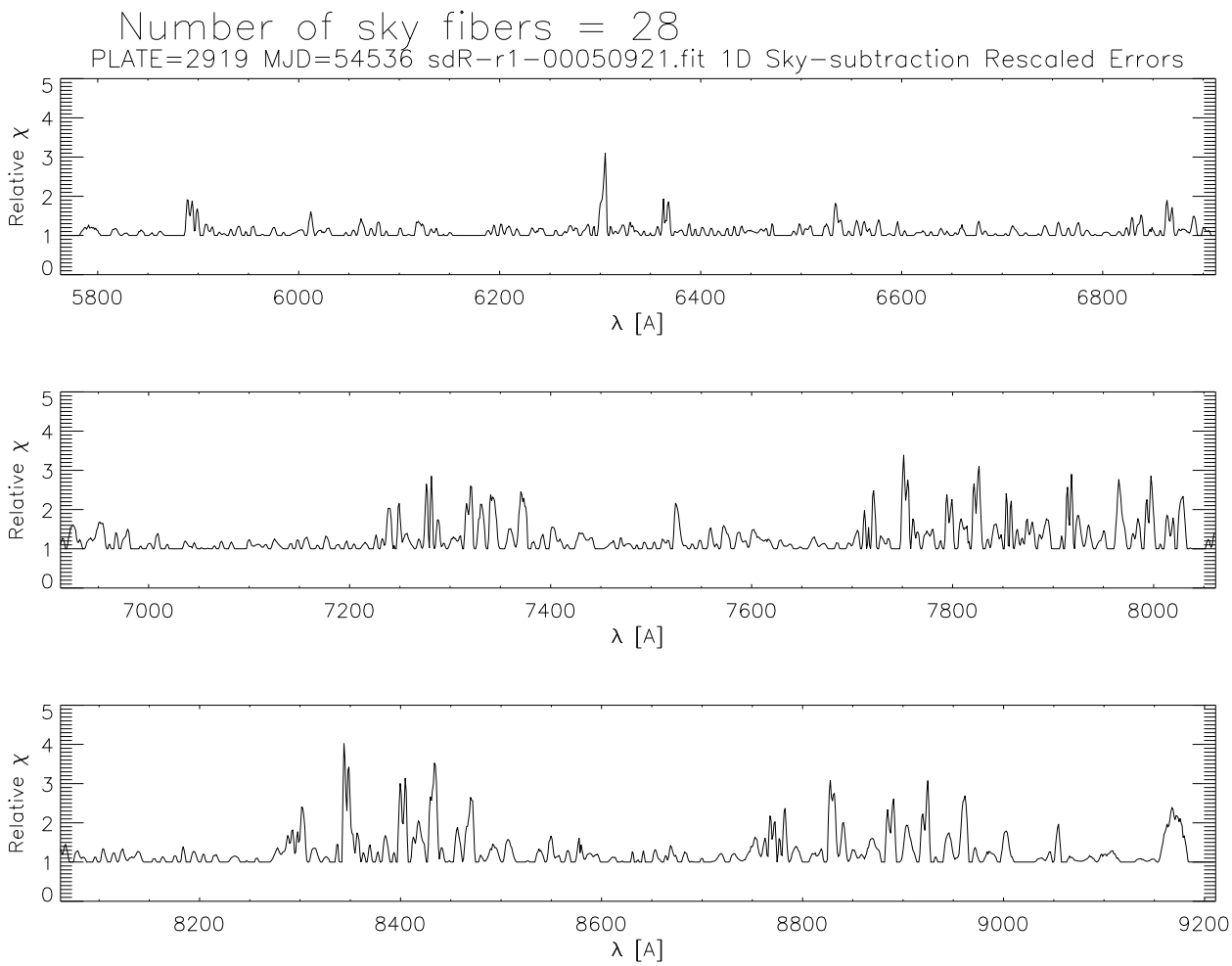

sky shift, pixels
0.70
0.65
0.60
5000
6000
7000
8000
9000
10000

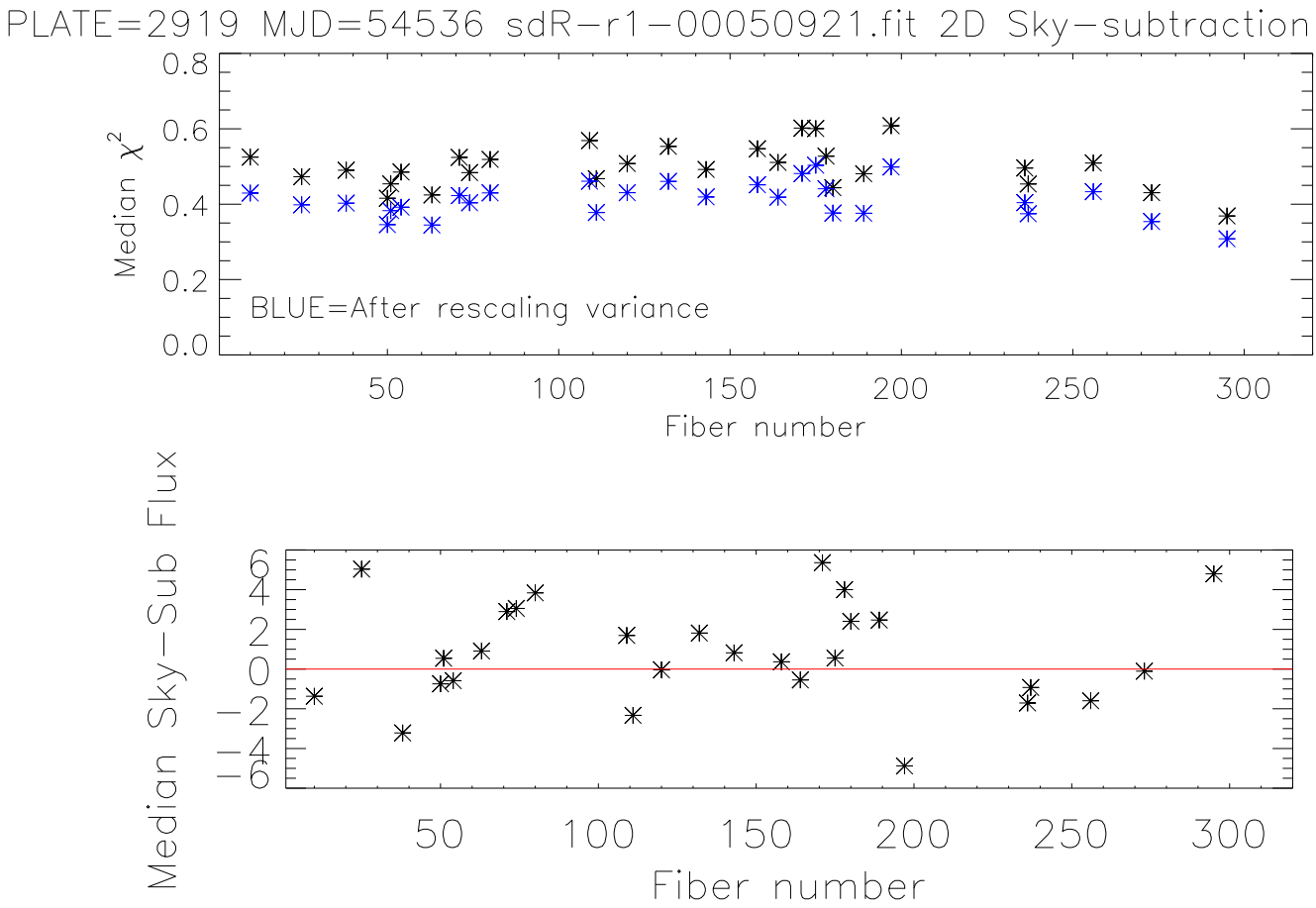

PLATE=2919 MJD=54536 Smooth superflat for sdR-r1-00050921.fit
2.0
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

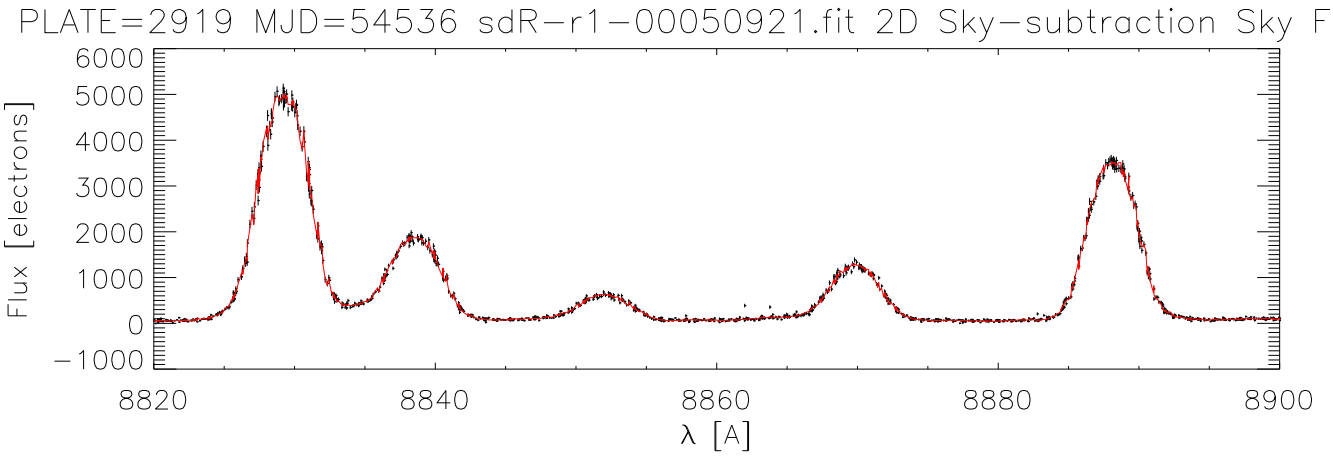

PLATE=2919 MJD=54536 sdR-r1-00050921.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

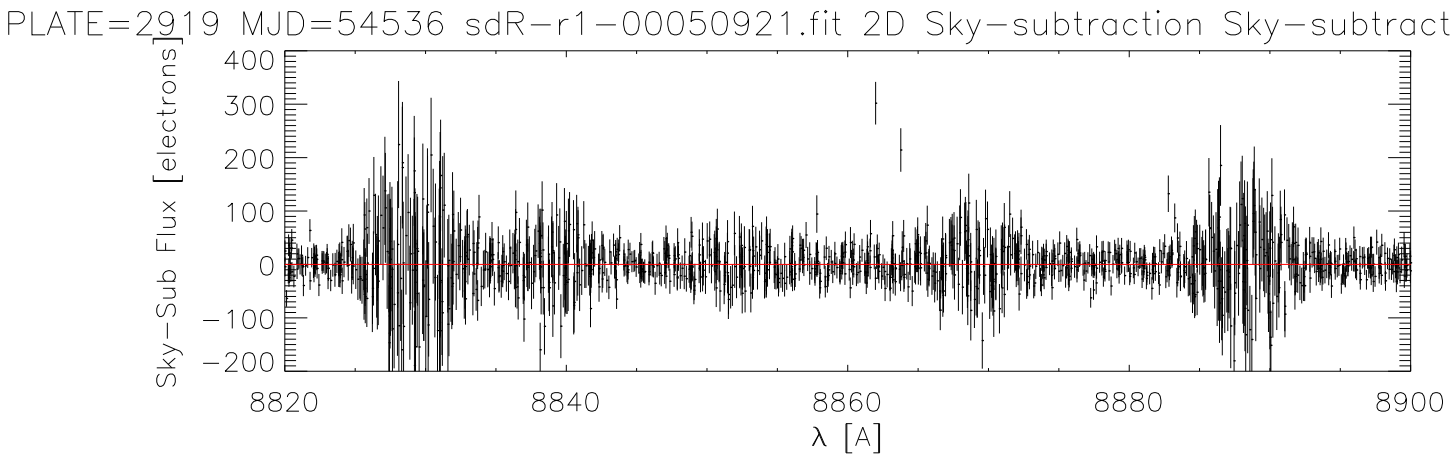

PLATE=2919 MJD=54536 sdR-r1-00050921.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

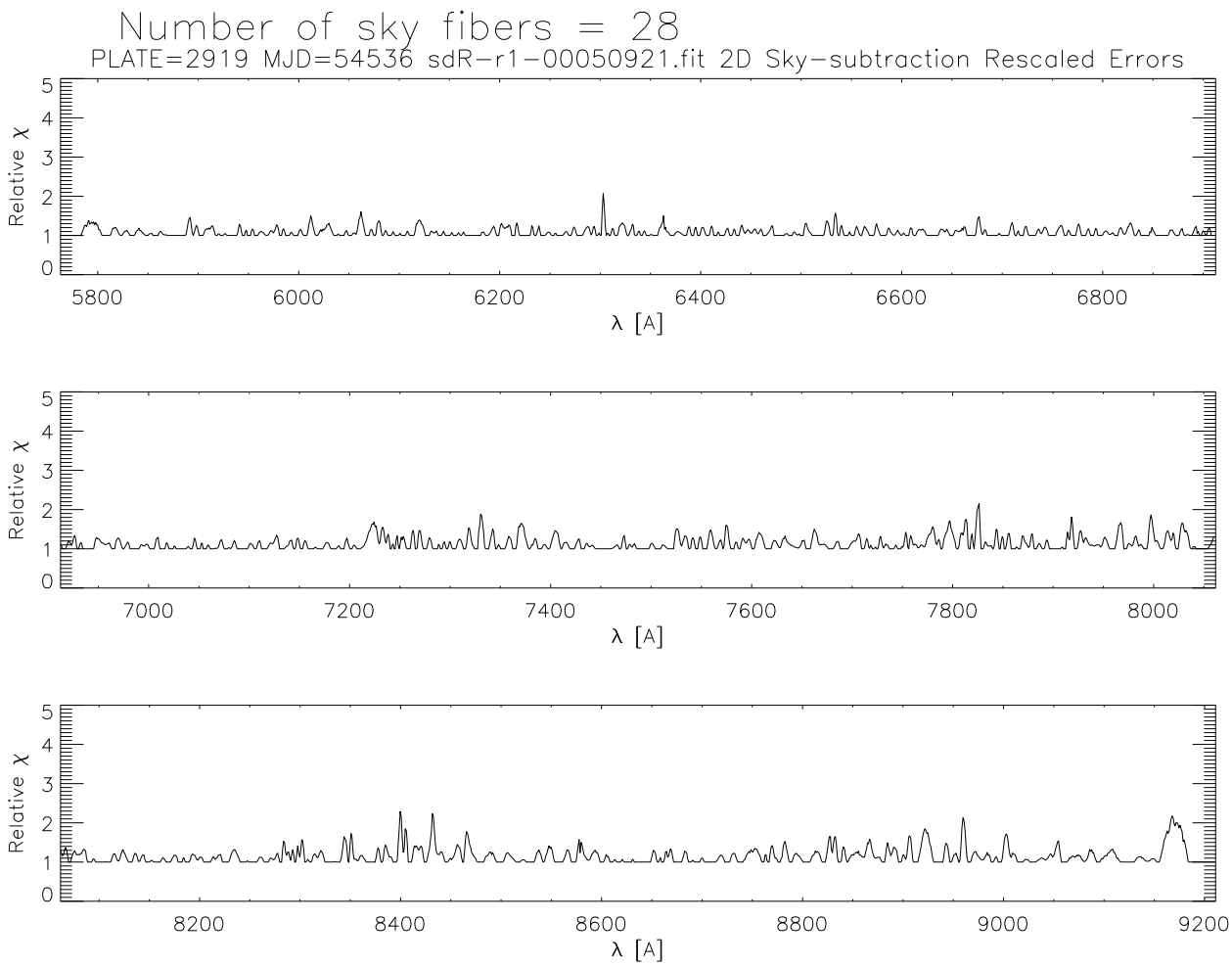

PLATE=2919 MJD=54536 sdR-r1-00050921.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

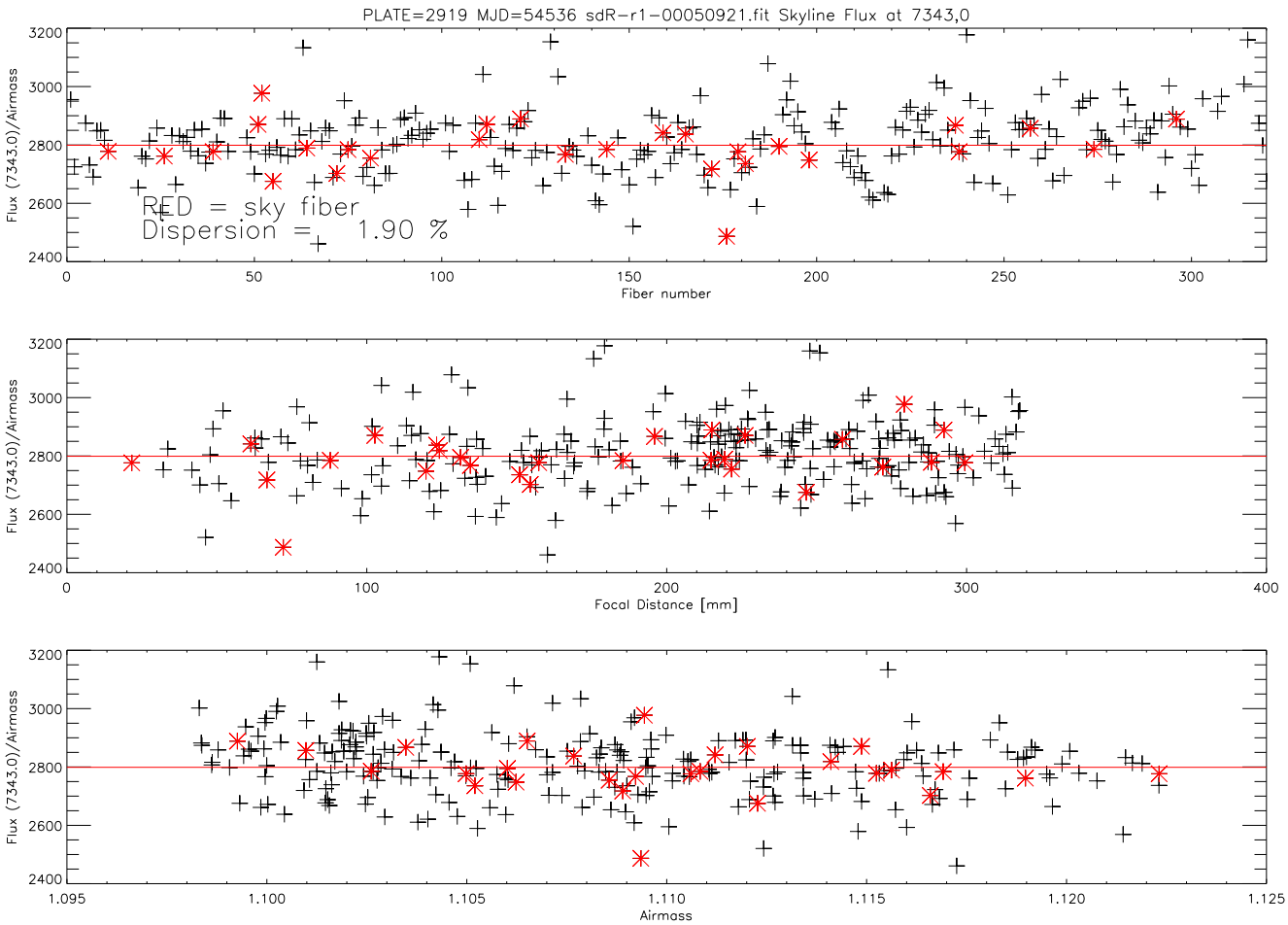

Number of sky fibers = 28
PLATE=2919 MJD=54536 sdR-r1-00050921.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

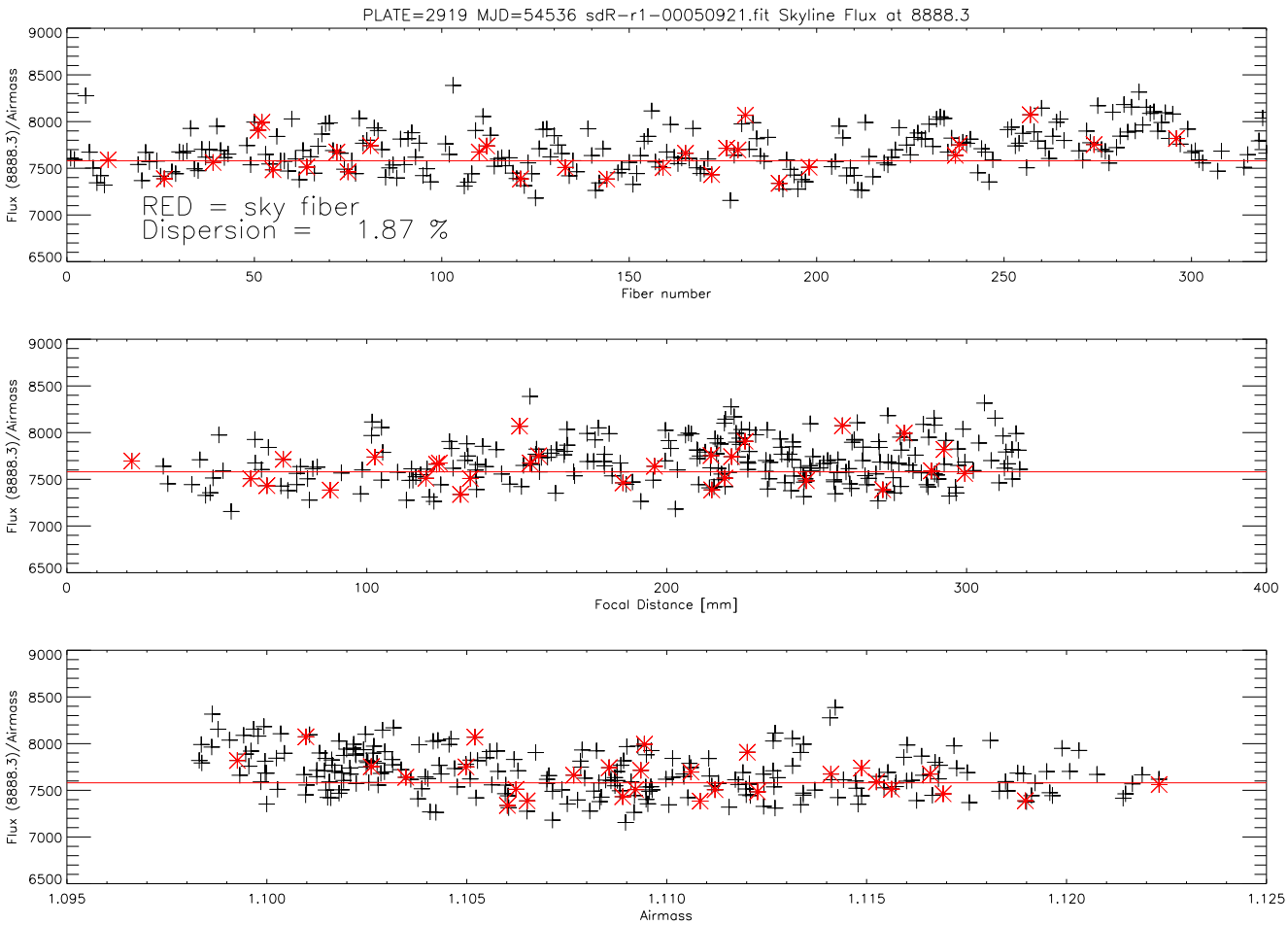

PLATE=2919 MJD=54536 sdR-r1-00050921.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

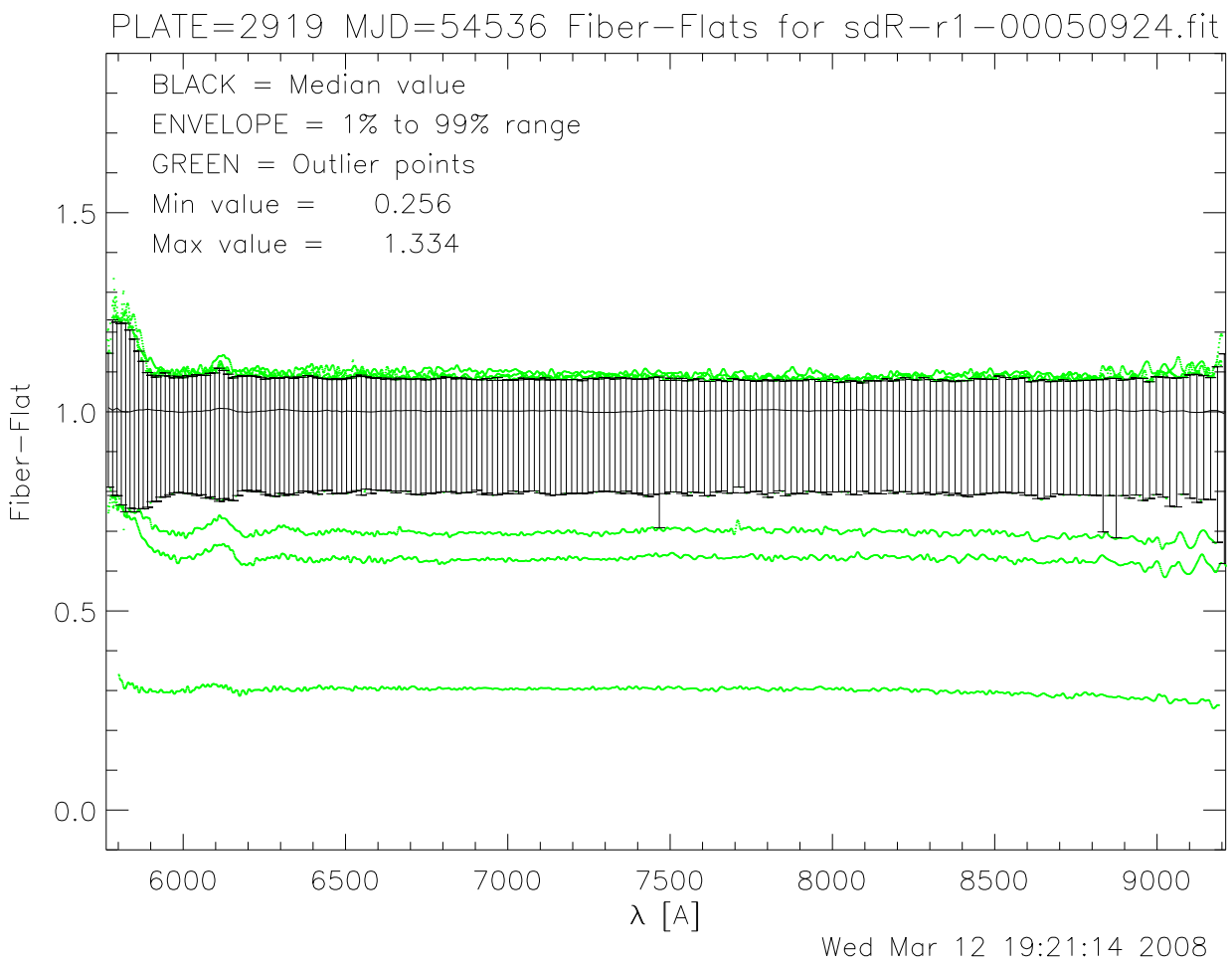

PLATE=2919 MJD=54536 sdR-r1-00050921.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

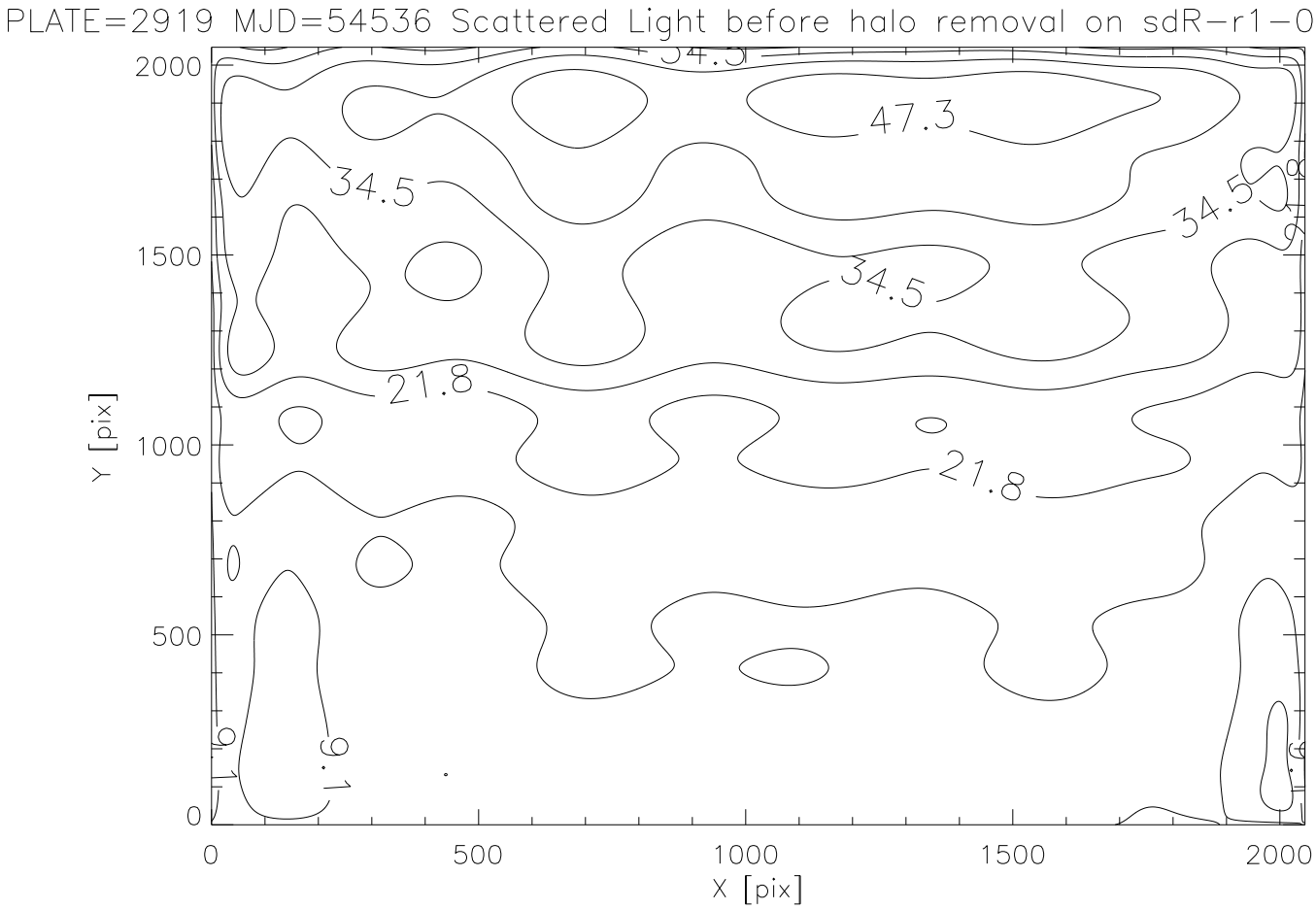

PLATE=2919 MJD=54536 sdR-r1-00050921.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

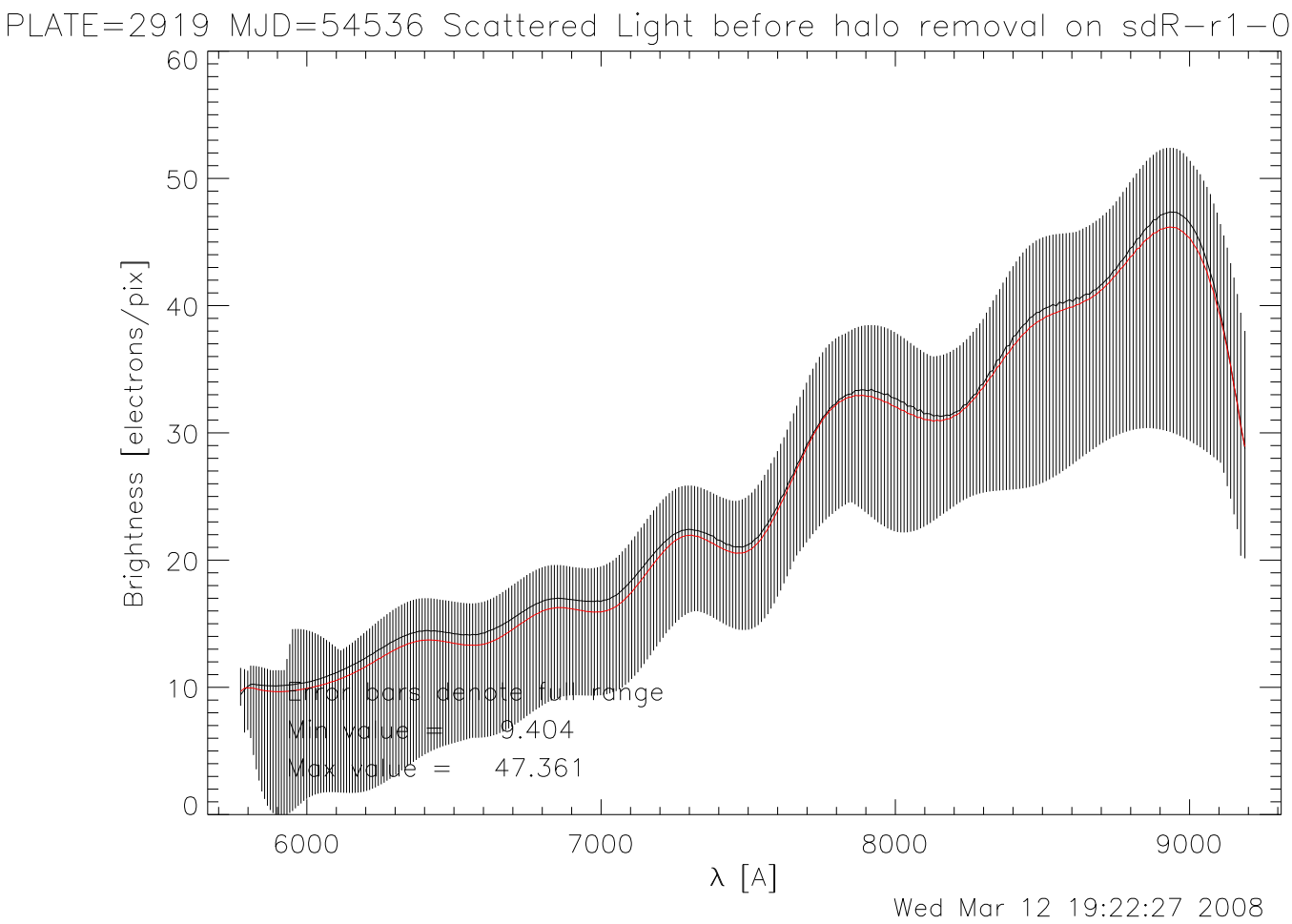

Number of sky fibers = 28
PLATE=2919 MJD=54536 sdR-r1-00050921.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

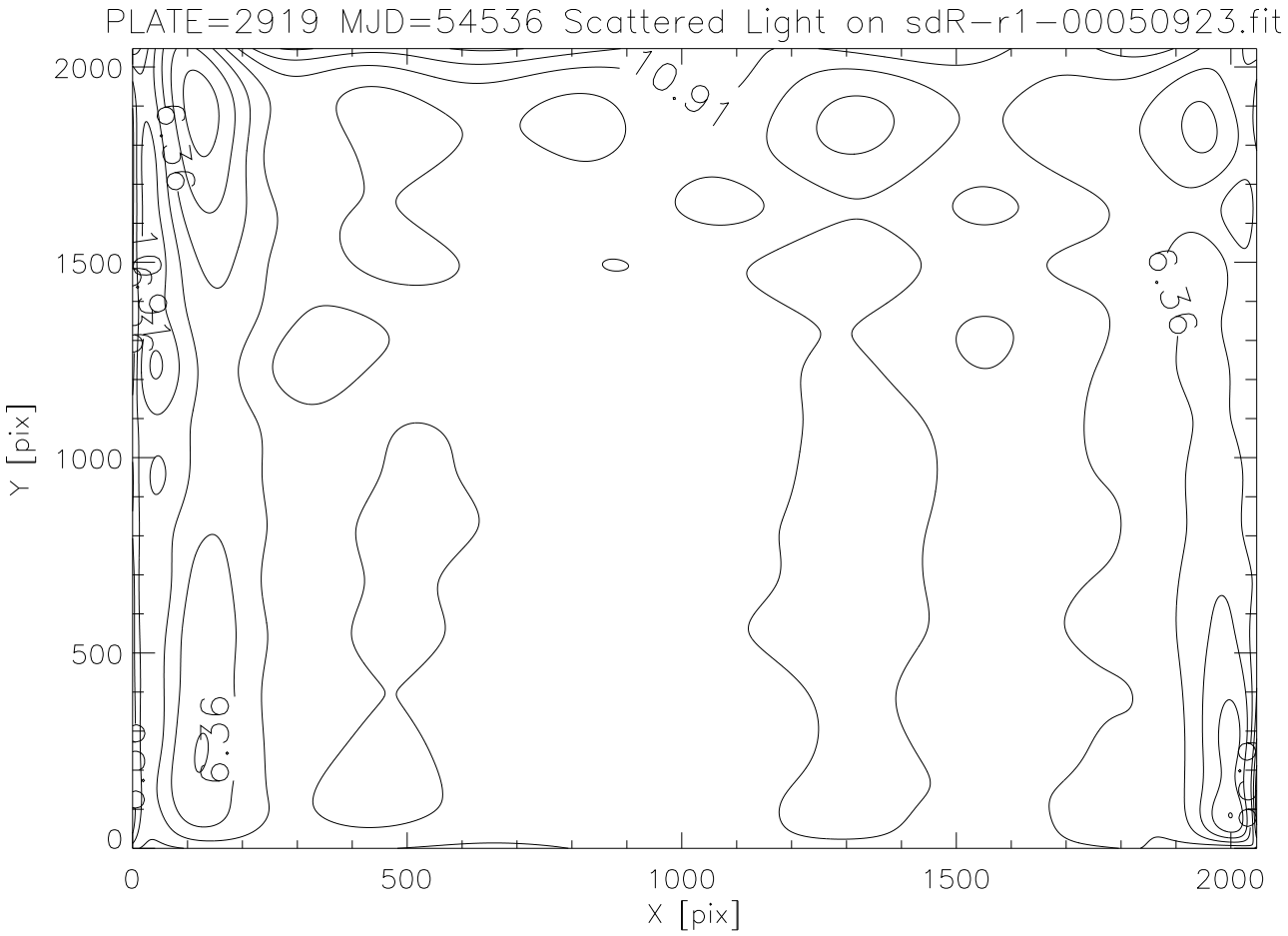

PLATE=2919 MJD=54536 sdR-r1-00050921.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.90 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

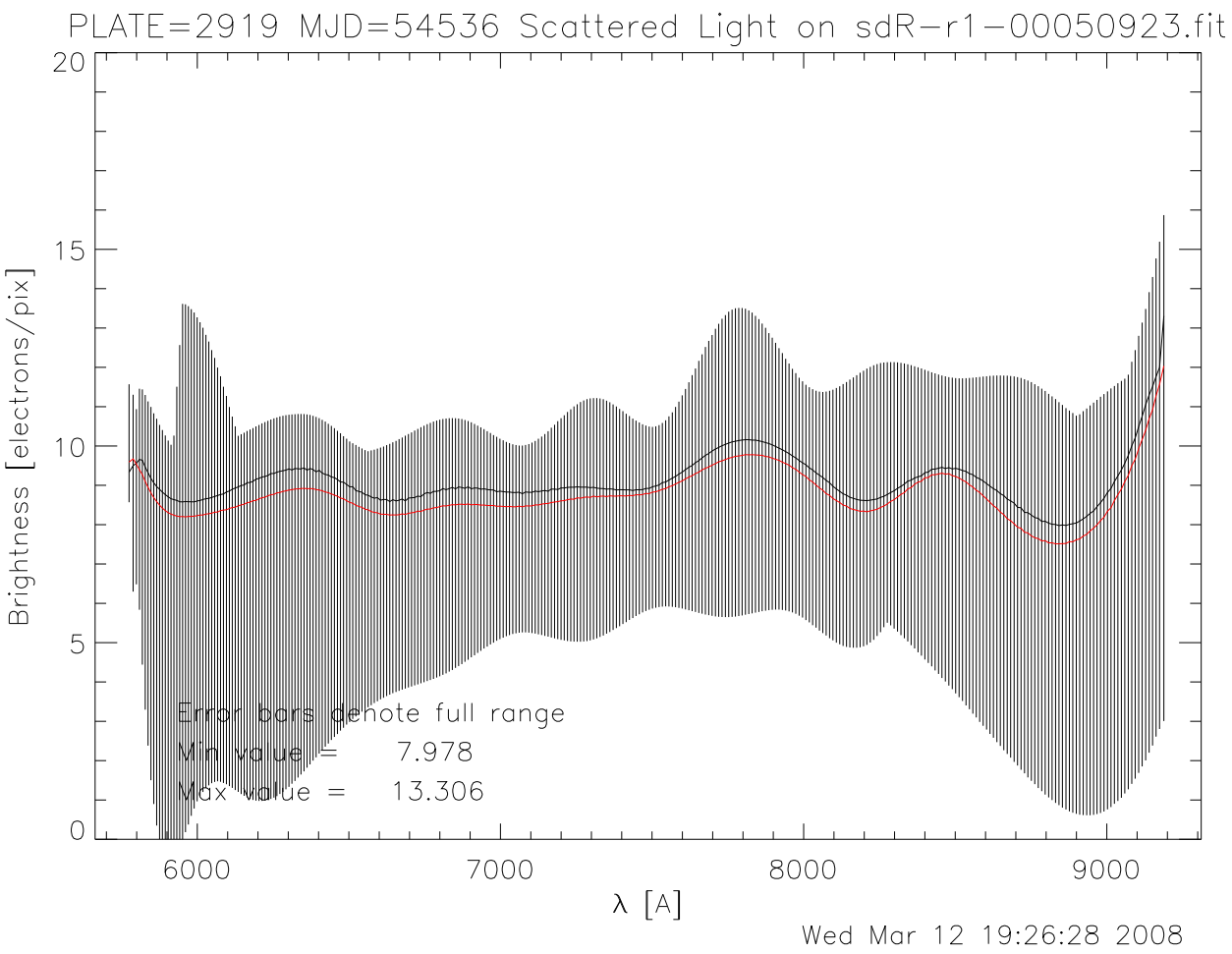

PLATE=2919 MJD=54536 sdR-r1-00050921.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.87 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

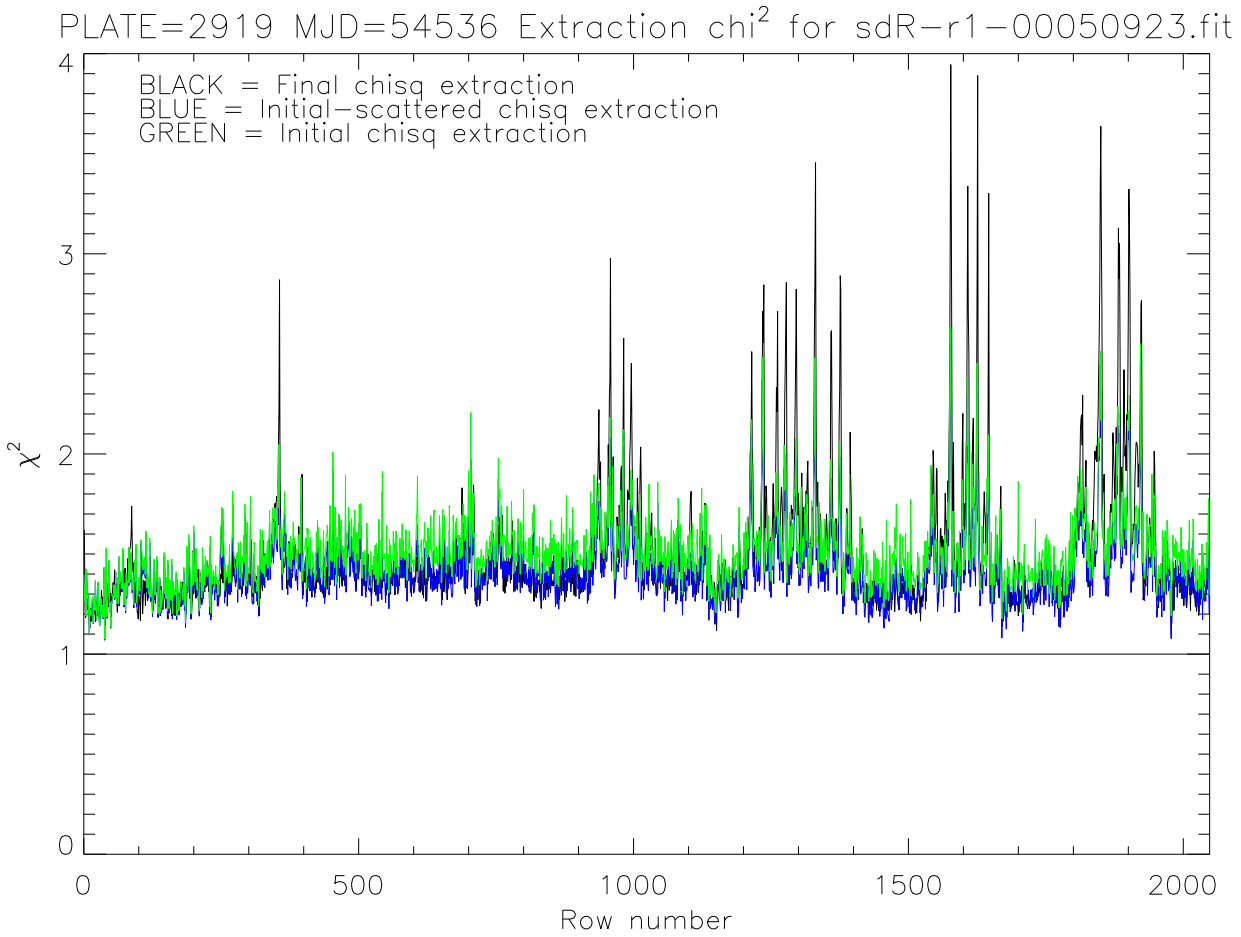

PLATE=2919 MJD=54536 Fiber-Flats for sdR-r1-00050924.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.256
Max value = 1.334
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 19:21:14 2008

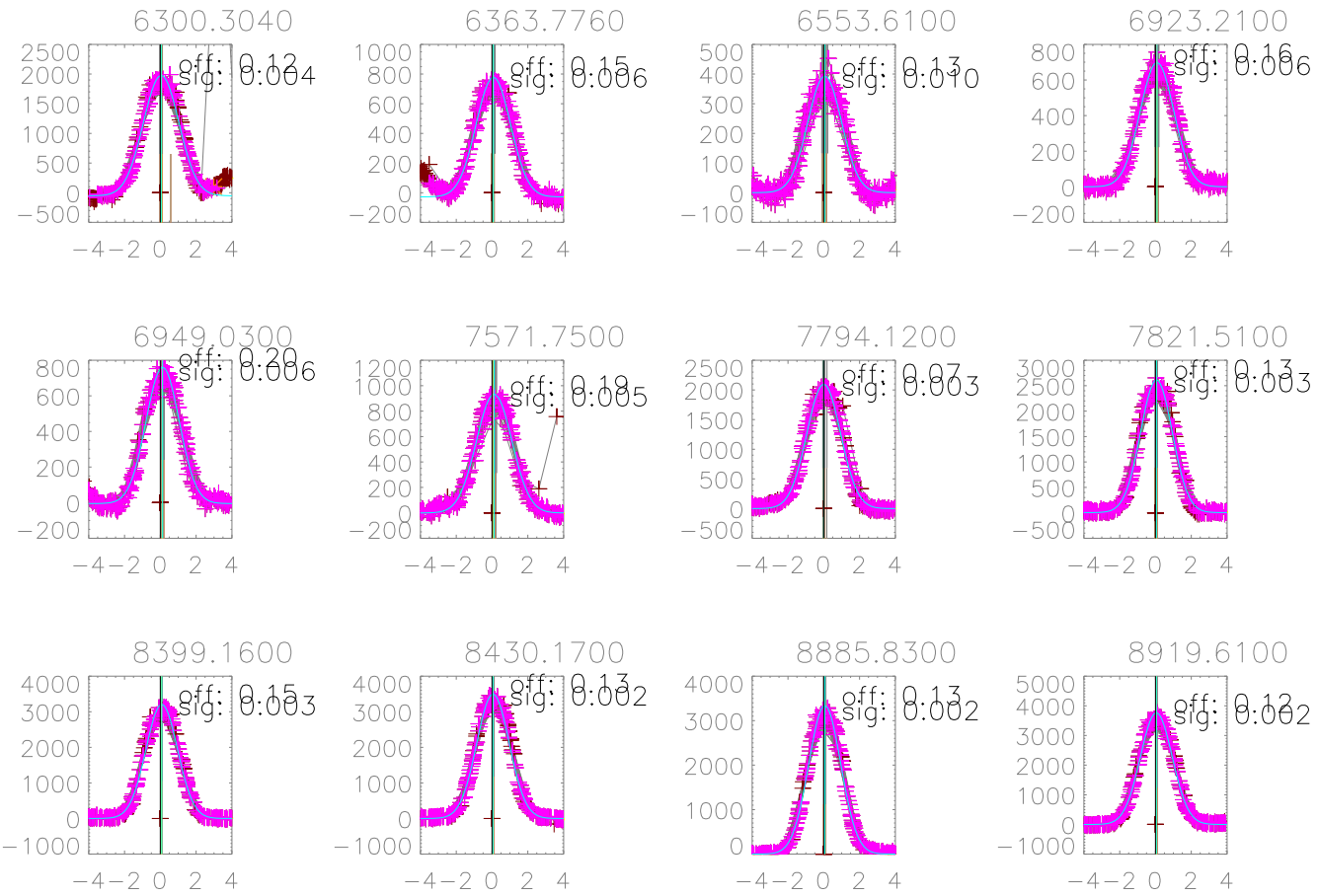

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR-r1-00050923.fi
47.3
34.5
34.5
34.5
21.8
21.8
Y [pix]
X [pix]
0
500
1000
1500
2000

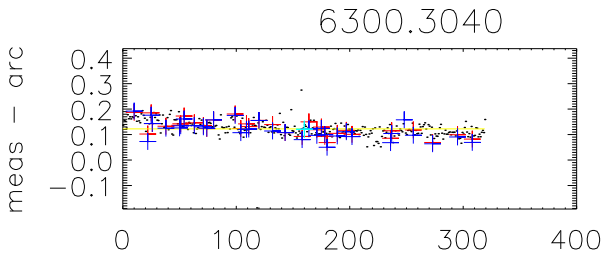

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR-r1-00050923.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 9.404
Max value = 47.361
Wed Mar 12 19:22:27 2008

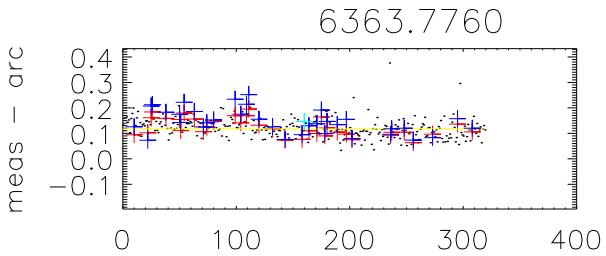

PLATE=2919 MJD=54536 Scattered Light on sdR-r1-00050923.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.91
6.36
0
6.36
6.36
6.36

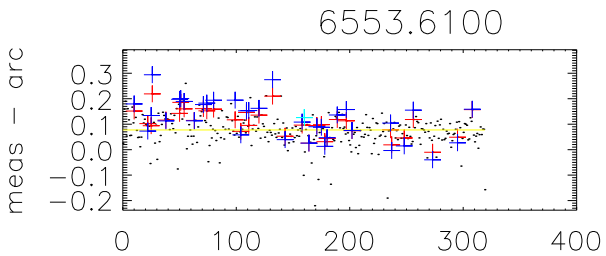

PLATE=2919 MJD=54536 Scattered Light on sdR-r1-00050923.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.978
Max value = 13.306
Wed Mar 12 19:26:28 2008

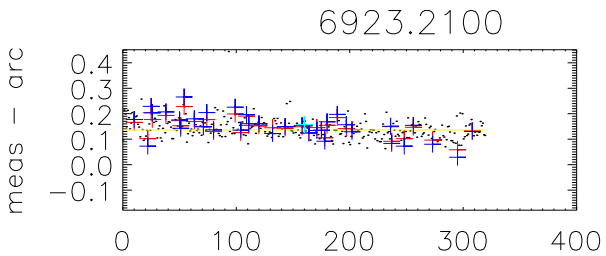

PLATE=2919 MJD=54536 Extraction chi^2 for sdR−r1−00050923.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

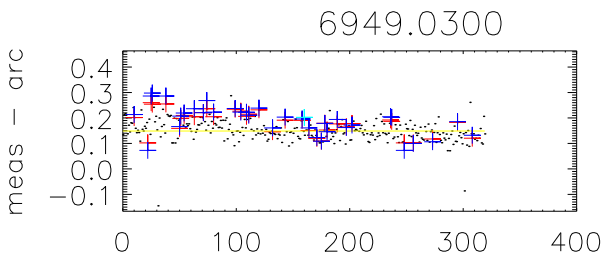

6300.3040
off: 0.12
sig: 0.004
6363.7760
off: 0.15
sig: 0.006
6553.6100
off: 0.13
sig: 0.010
6923.2100
off: 0.16
sig: 0.006
6949.0300
off: 0.20
sig: 0.006
7571.7500
off: 0.18
sig: 0.005
7794.1200
off: 0.07
sig: 0.003
7821.5100
off: 0.13
sig: 0.003
8399.1600
off: 0.15
sig: 0.003
8430.1700
off: 0.13
sig: 0.002
8885.8300
off: 0.13
sig: 0.002
8919.6100
off: 0.12
sig: 0.002

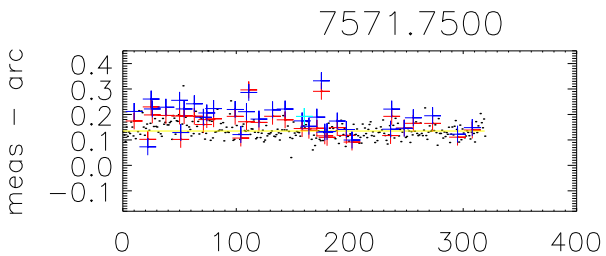

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

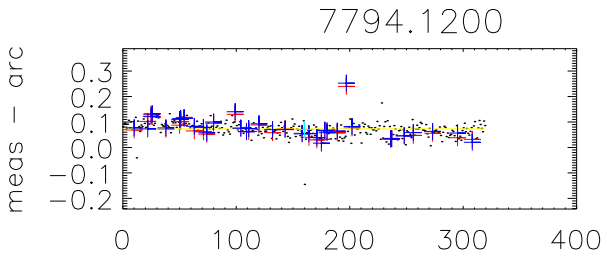

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

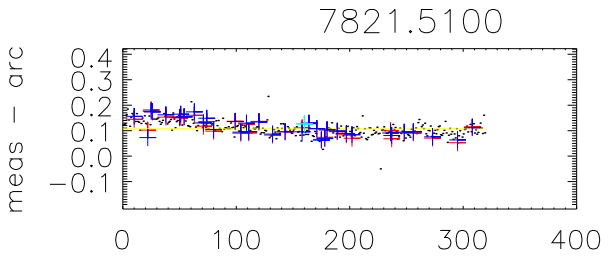

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

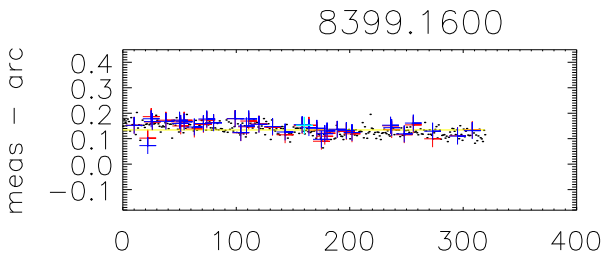

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

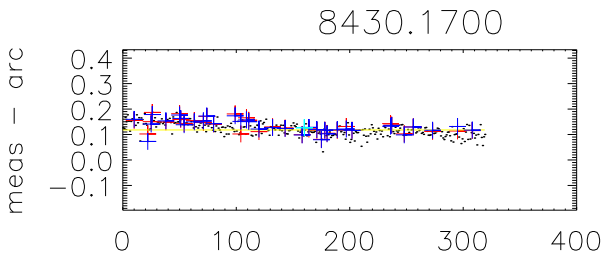

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

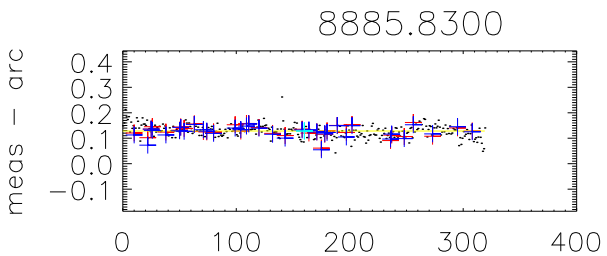

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

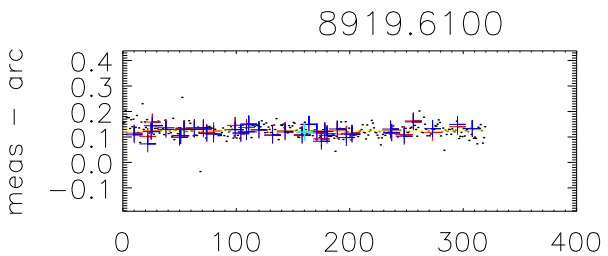

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

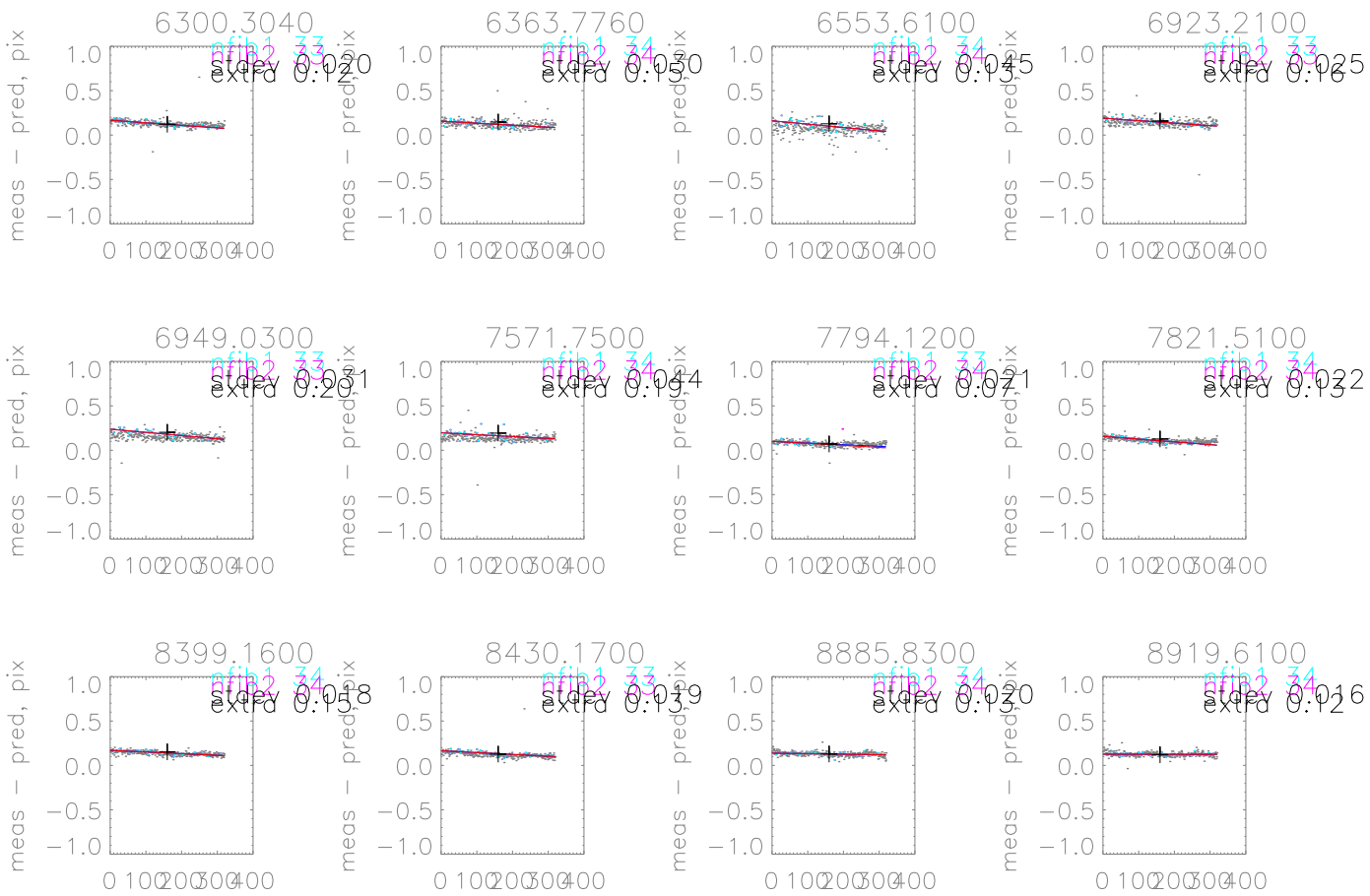

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

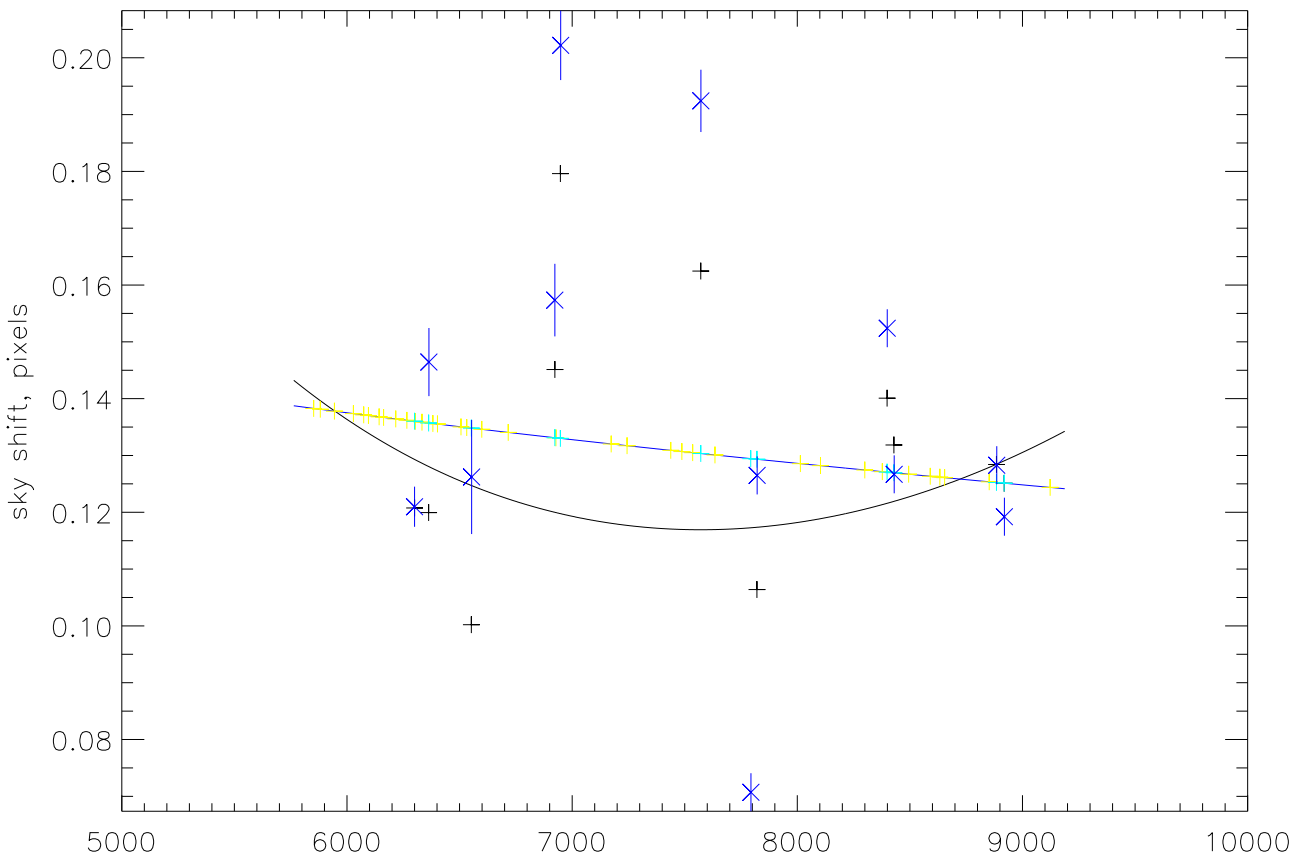

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

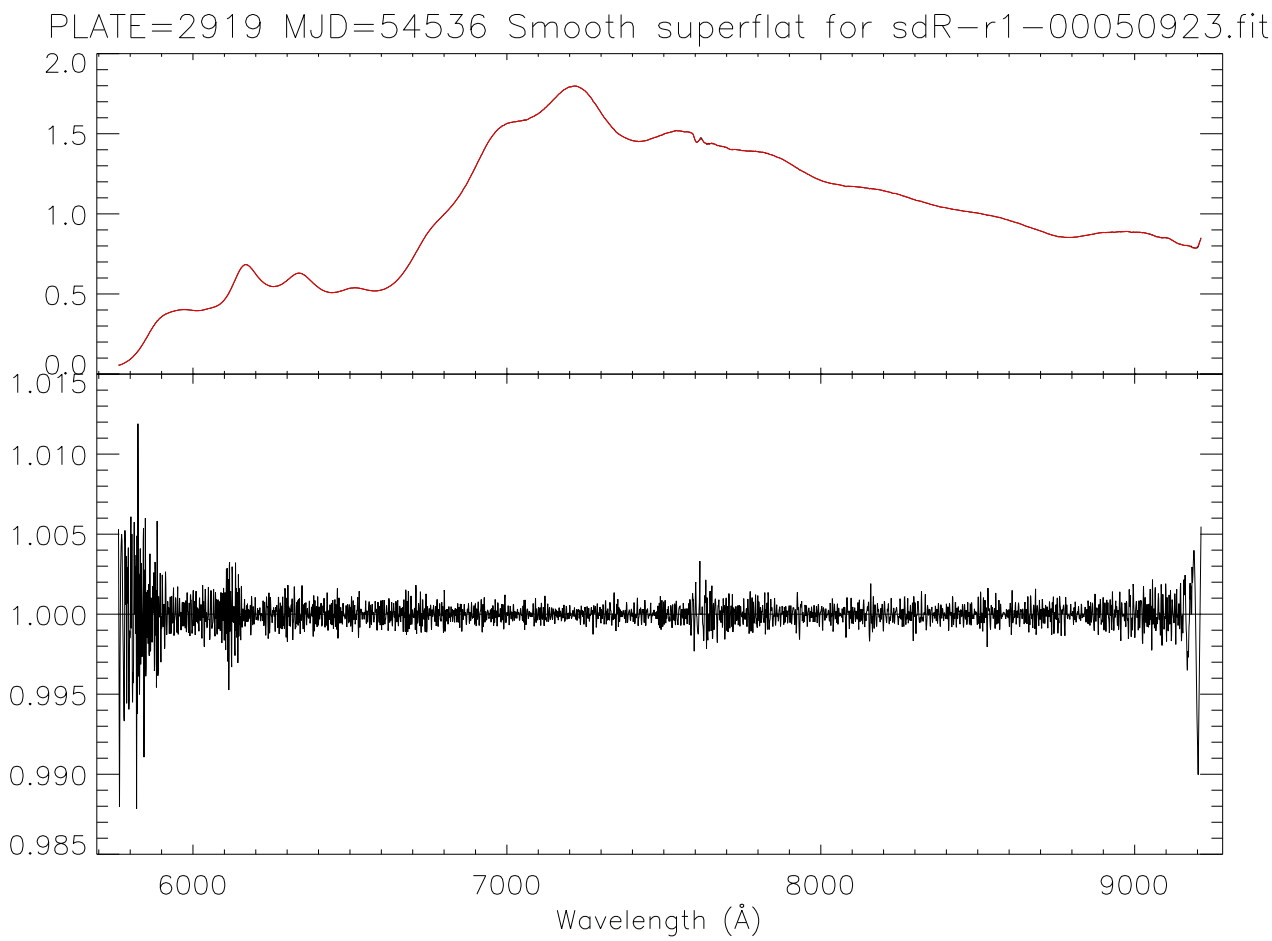

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

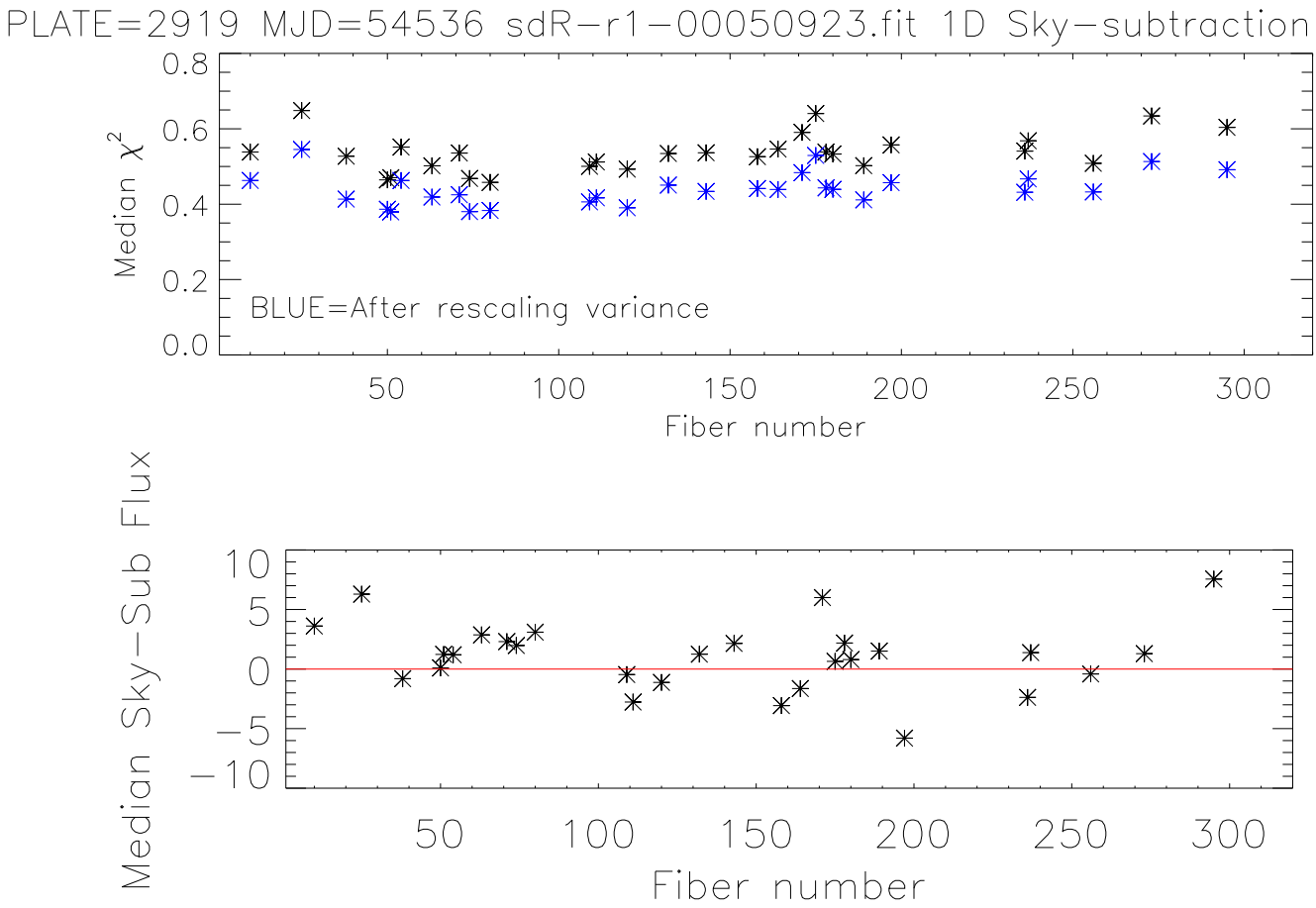

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

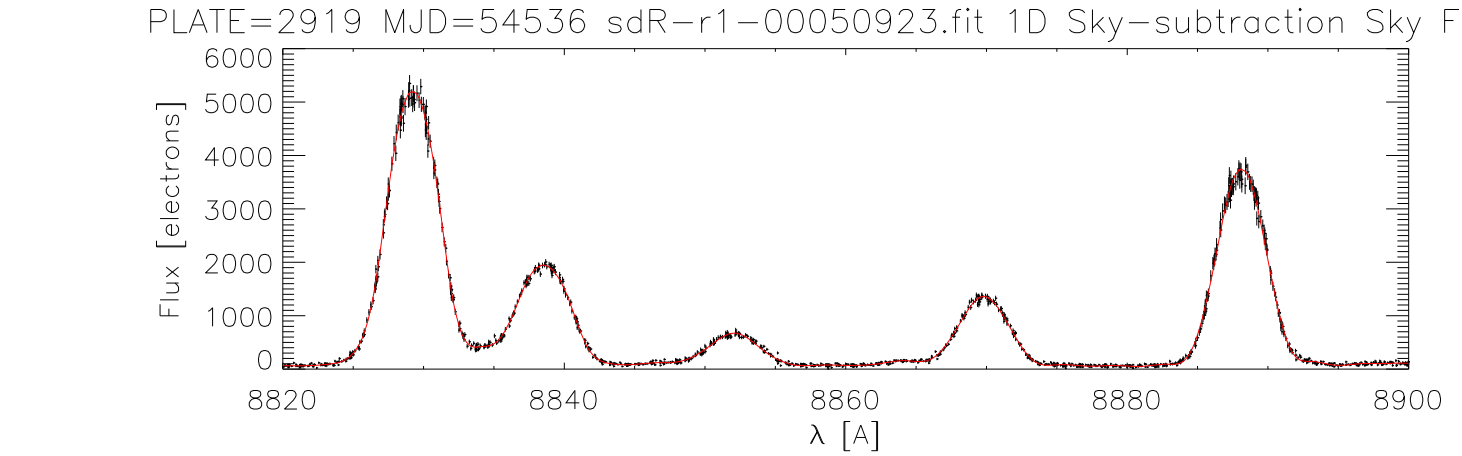

6300.3040
stdev 0.020
extra 0.12
6363.7760
stdev 0.030
extra 0.15
6553.6100
stdev 0.045
extra 0.13
6923.2100
stdev 0.025
extra 0.16
6949.0300
stdev 0.031
extra 0.20
7571.7500
stdev 0.044
extra 0.19
7794.1200
stdev 0.021
extra 0.07
7821.5100
stdev 0.022
extra 0.13
8399.1600
stdev 0.018
extra 0.15
8430.1700
stdev 0.019
extra 0.13
8885.8300
stdev 0.020
extra 0.13
8919.6100
stdev 0.016
extra 0.12
meas − pred, pix
mfib1 33
mfib2 34

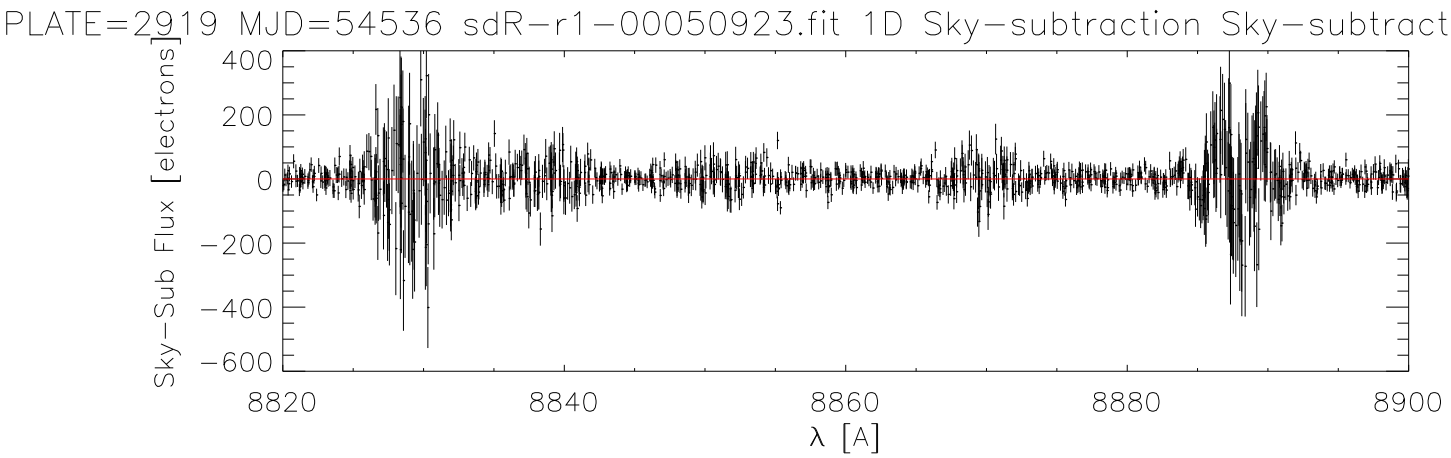

sky shift, pixels
0.20
0.18
0.16
0.14
0.12
0.10
0.08
5000
6000
7000
8000
9000
10000

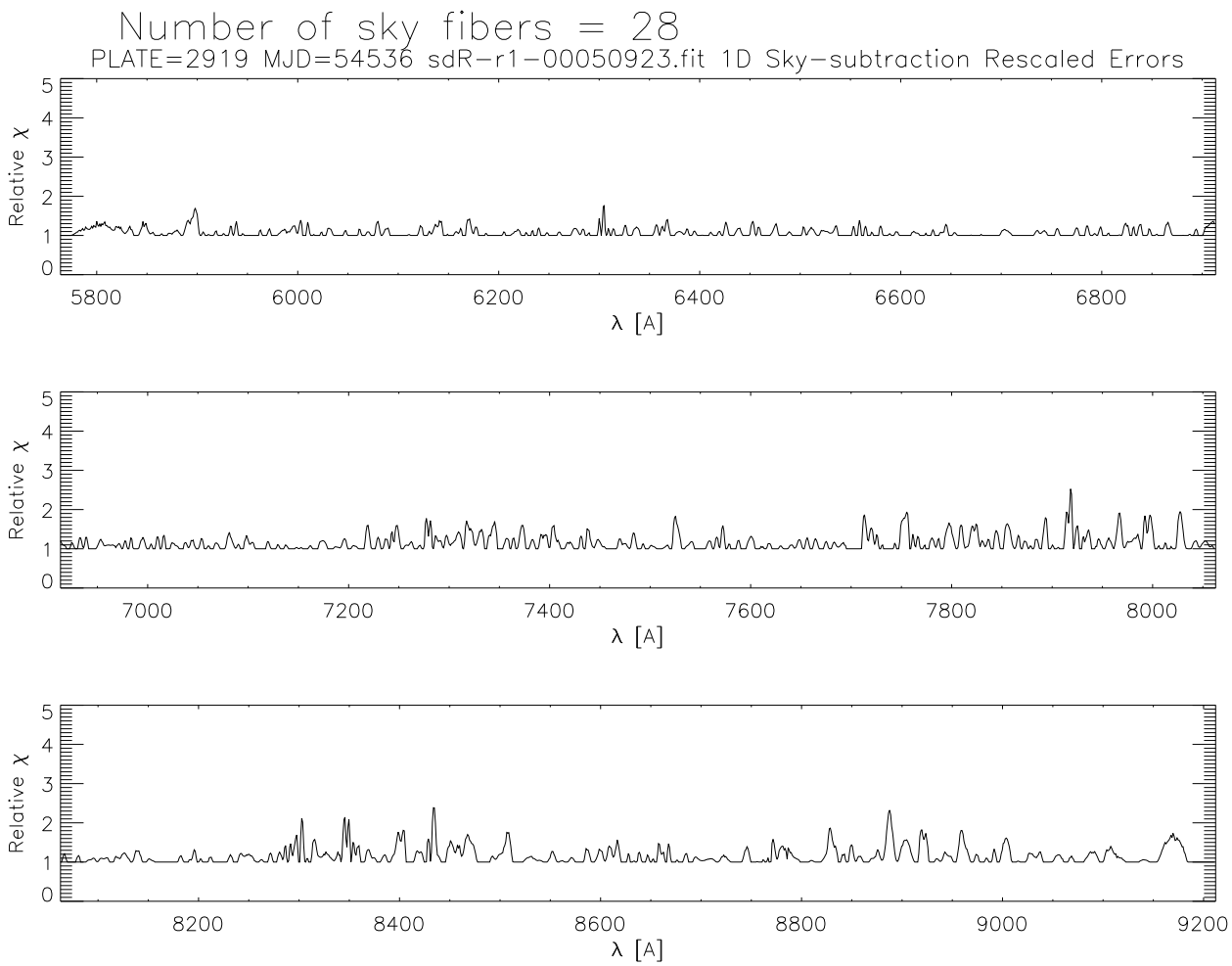
es= 0.0000

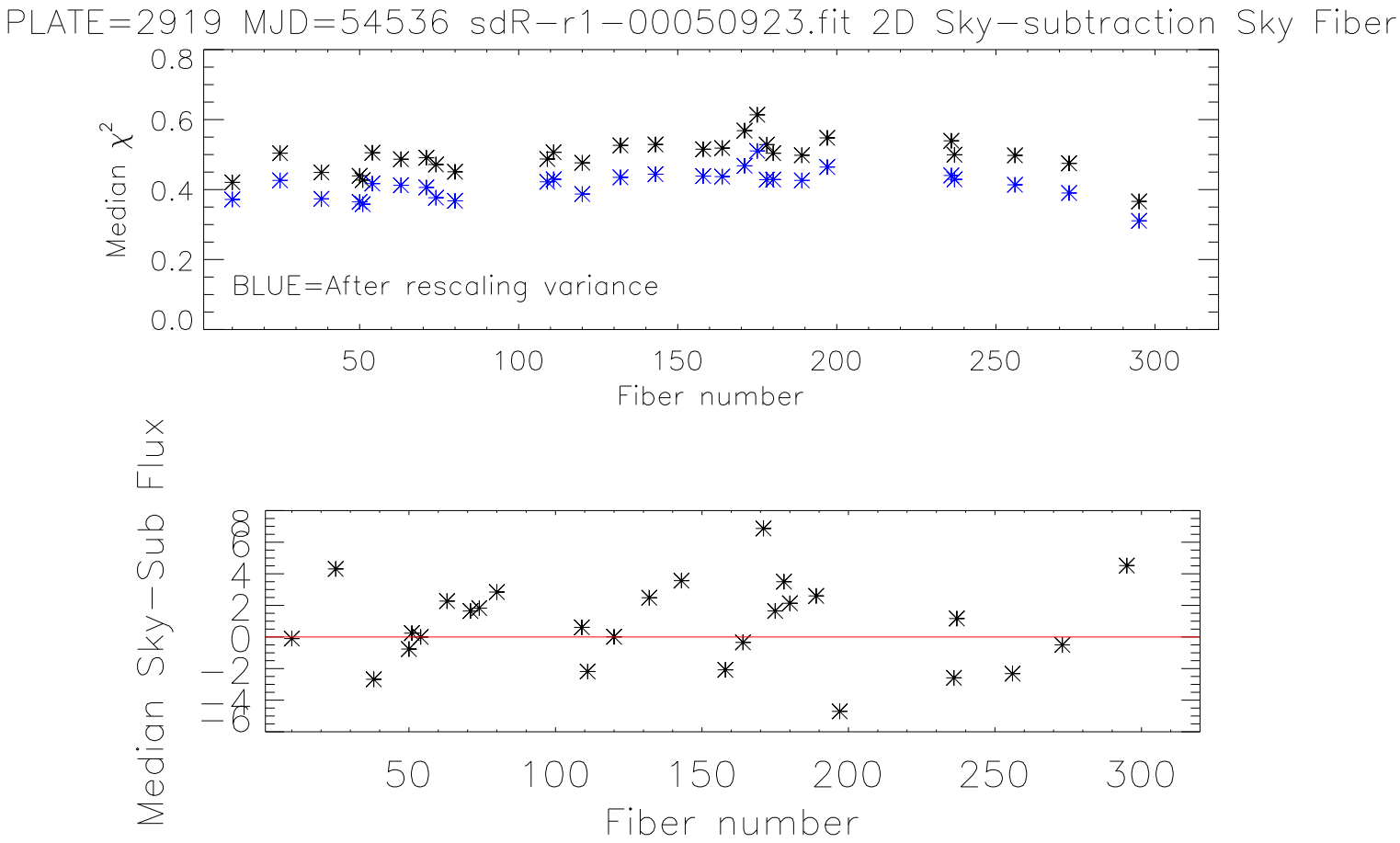

PLATE=2919 MJD=54536 Smooth superflat for sdR-r1-00050923.fit
2.0
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

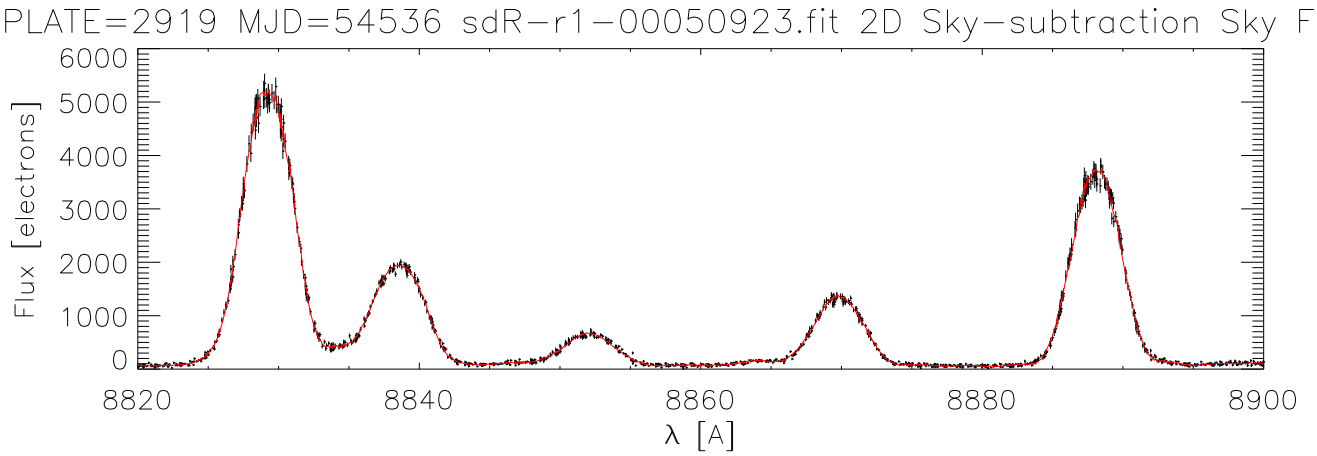

PLATE=2919 MJD=54536 sdR-r1-00050923.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

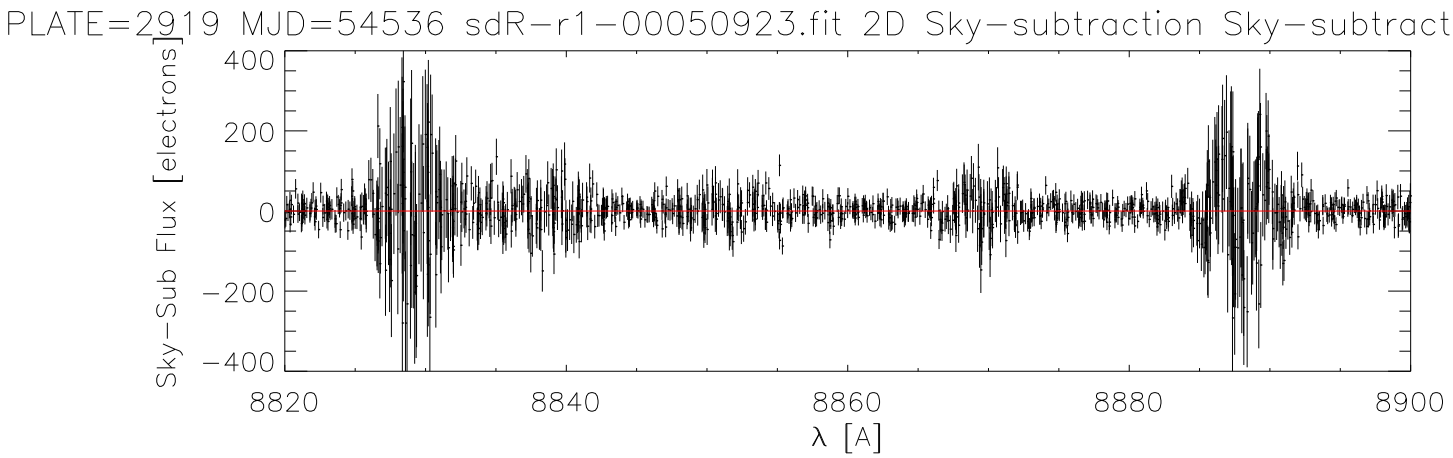

PLATE=2919 MJD=54536 sdR-r1-00050923.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

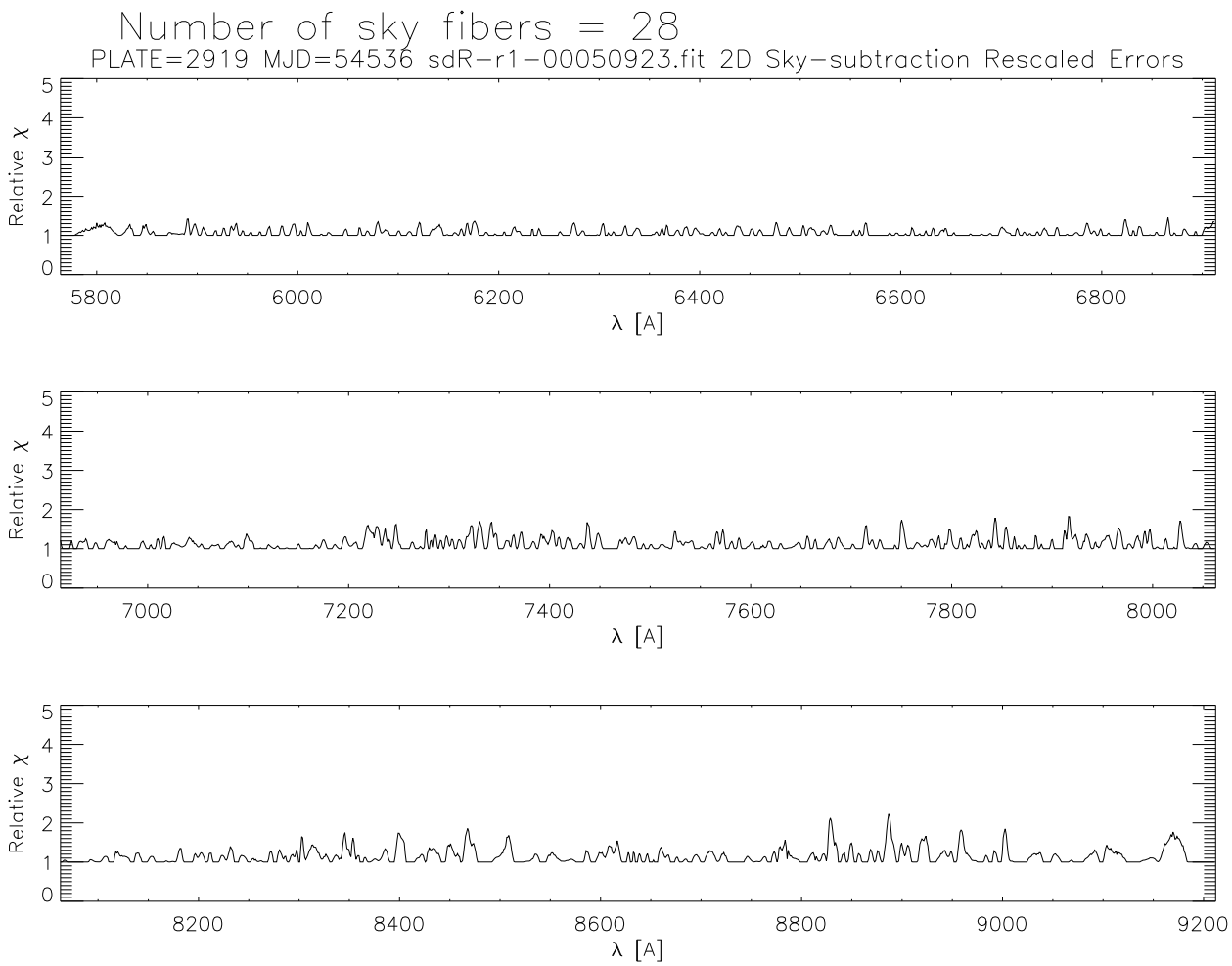

PLATE=2919 MJD=54536 sdR-r1-00050923.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

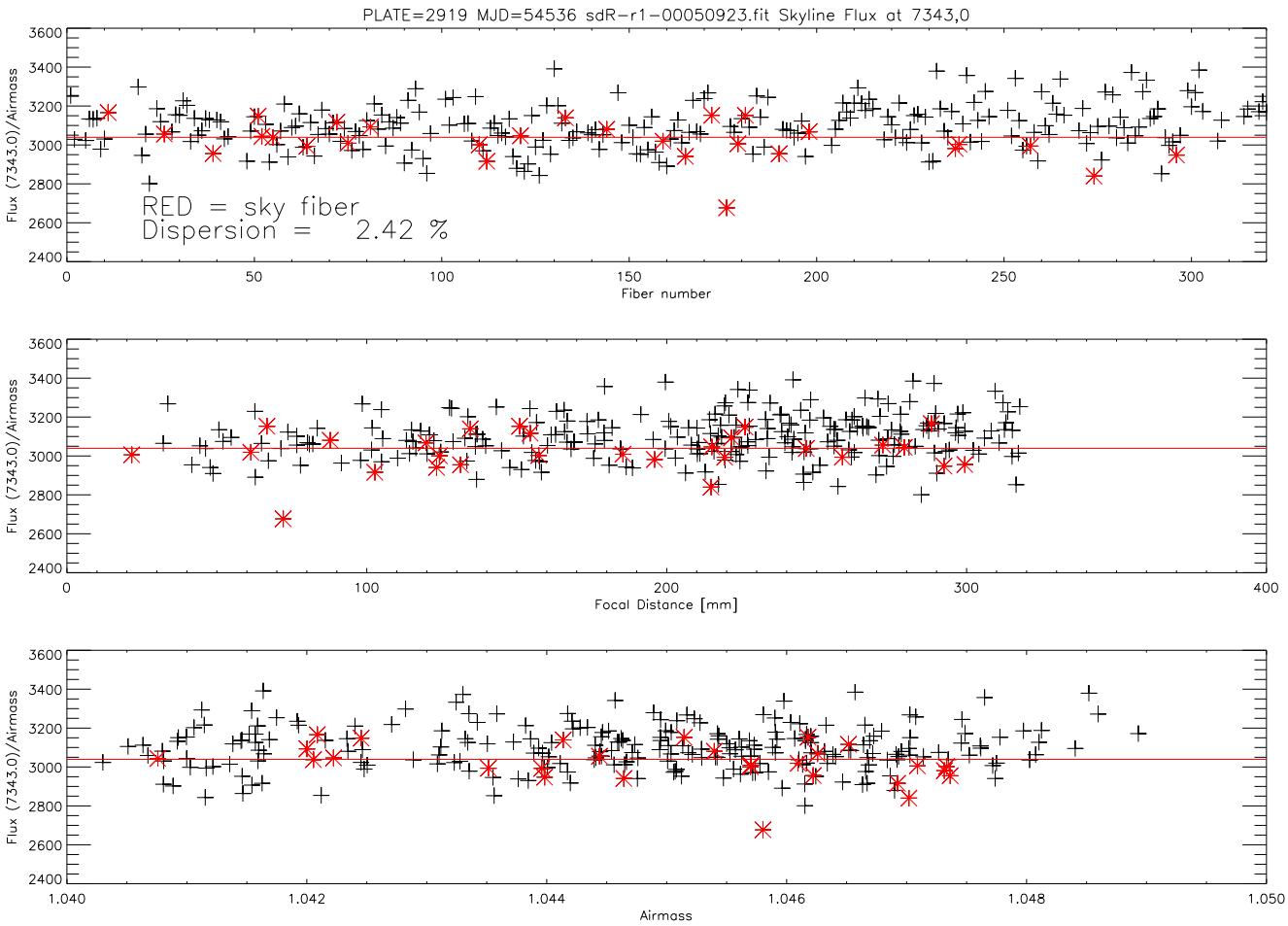

Number of sky fibers = 28
PLATE=2919 MJD=54536 sdR-r1-00050923.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

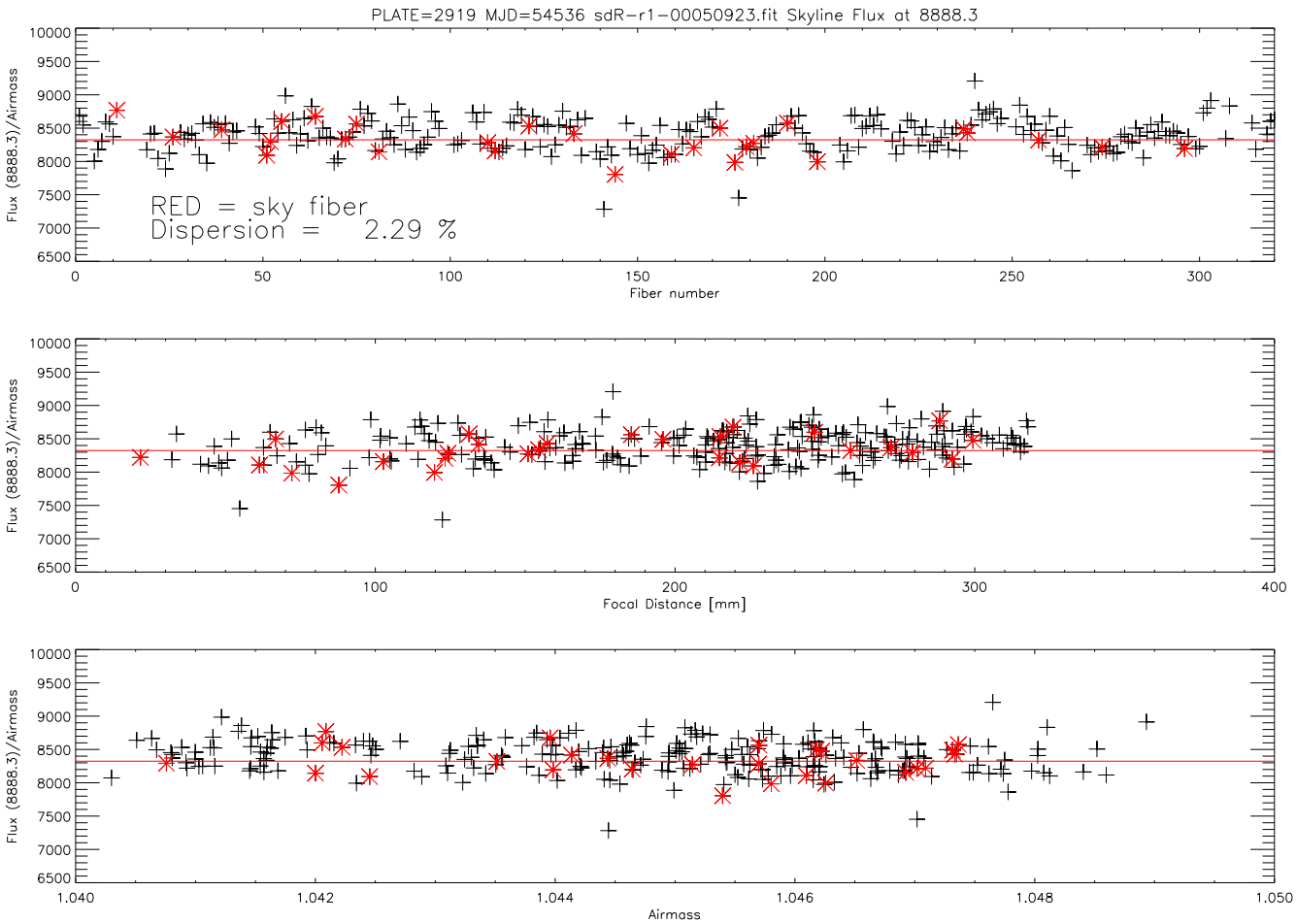

PLATE=2919 MJD=54536 sdR-r1-00050923.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

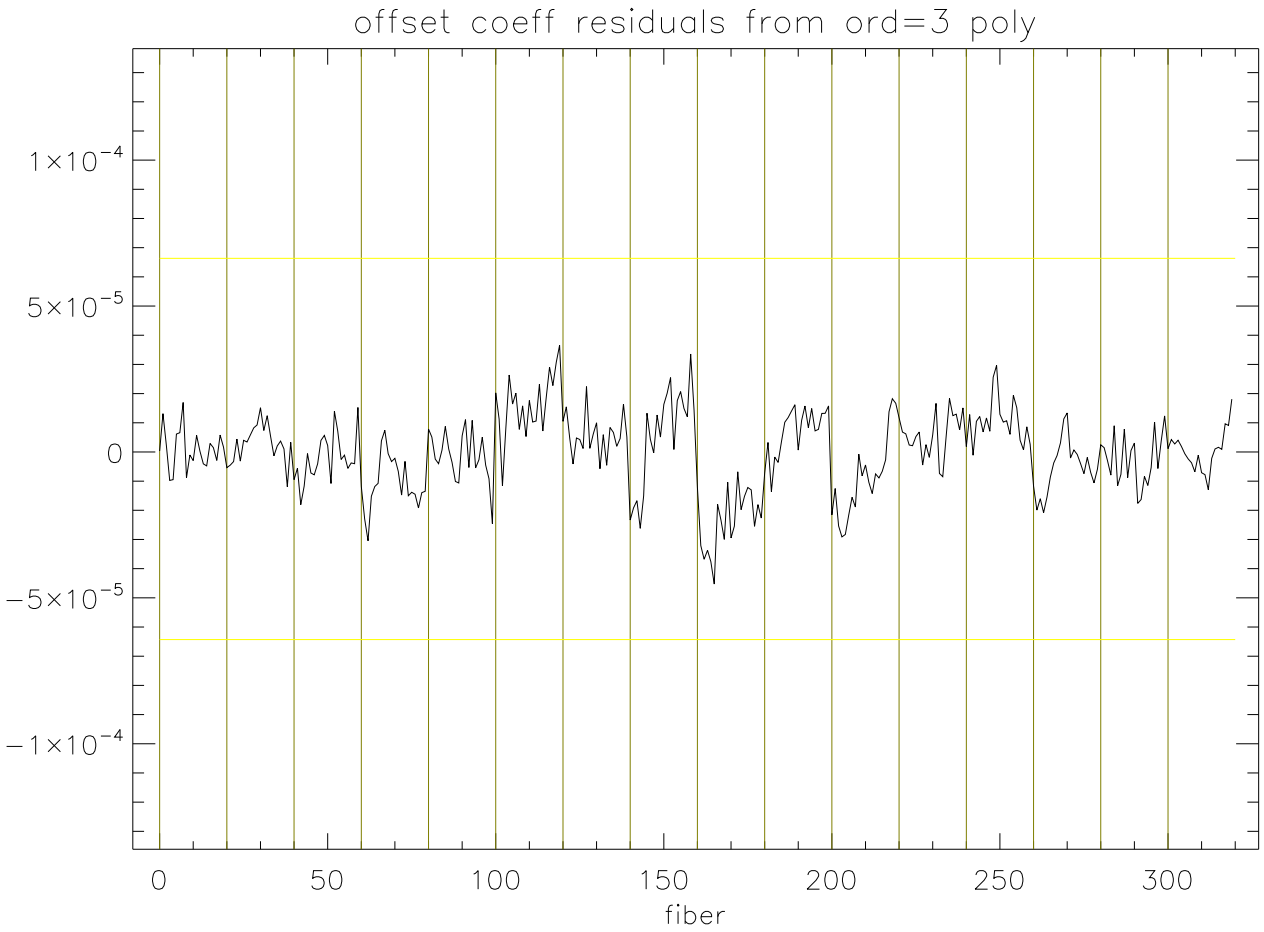

PLATE=2919 MJD=54536 sdR-r1-00050923.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

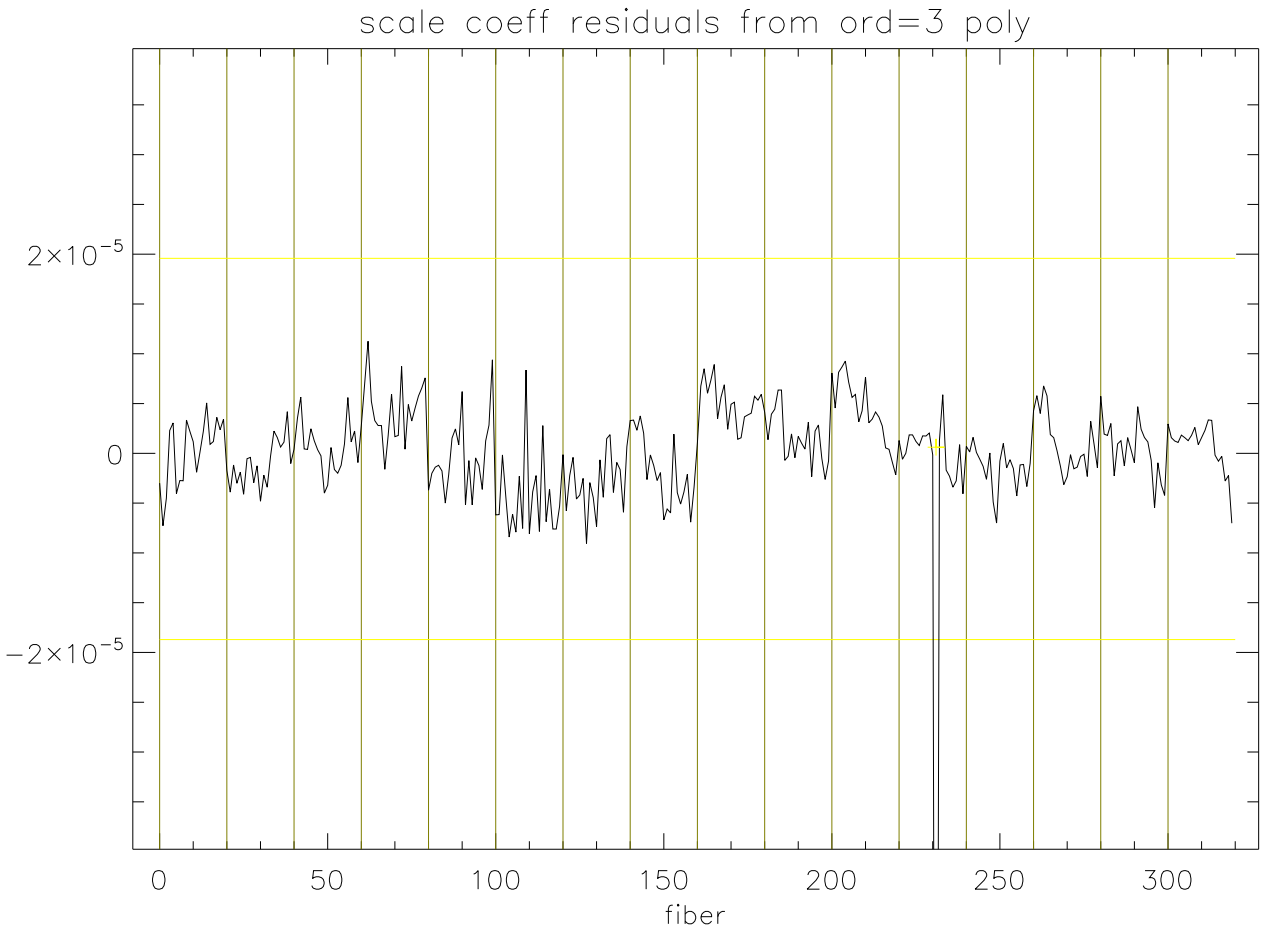

PLATE=2919 MJD=54536 sdR-r1-00050923.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

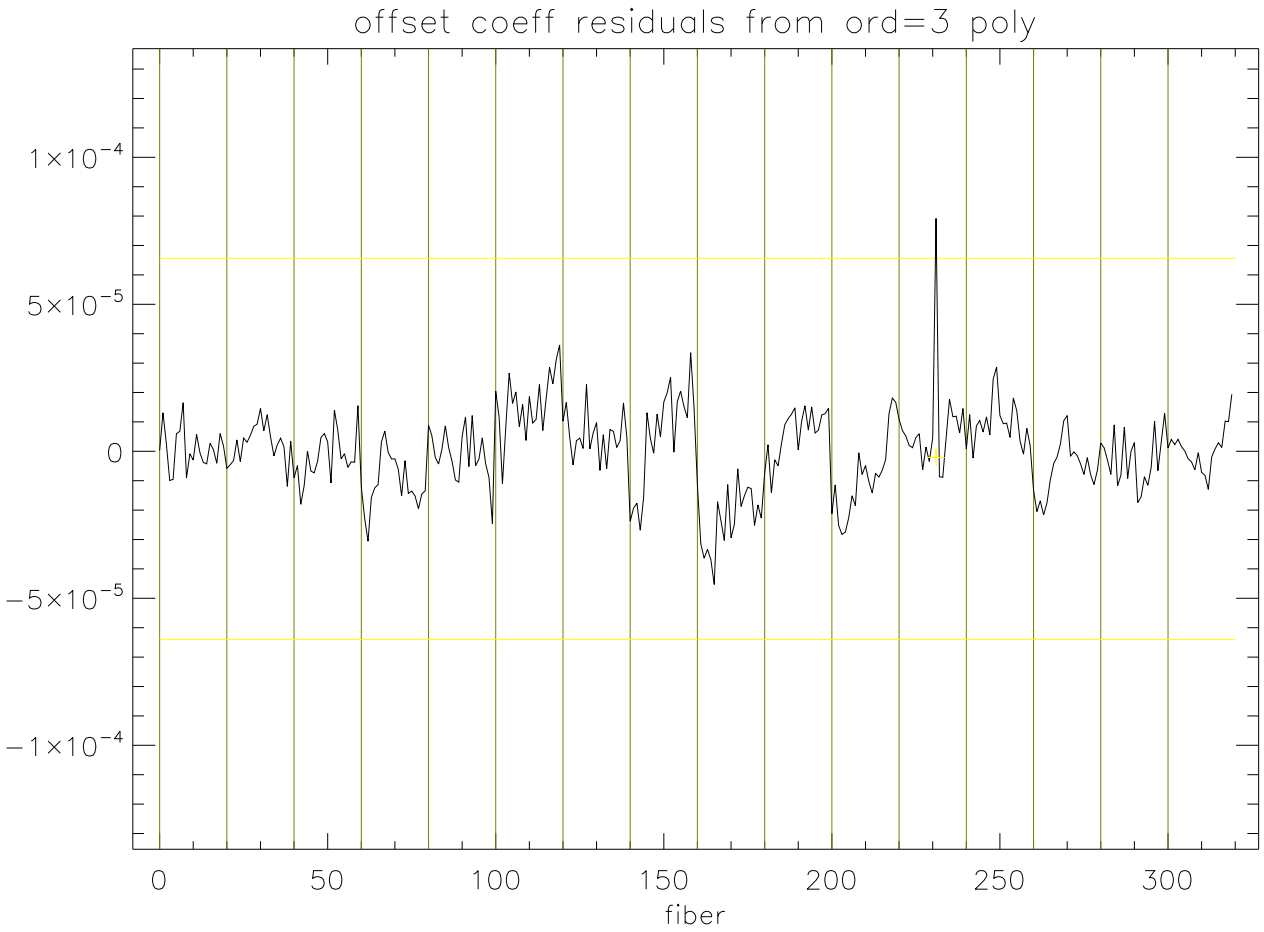

Number of sky fibers = 28
PLATE=2919 MJD=54536 sdR-r1-00050923.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

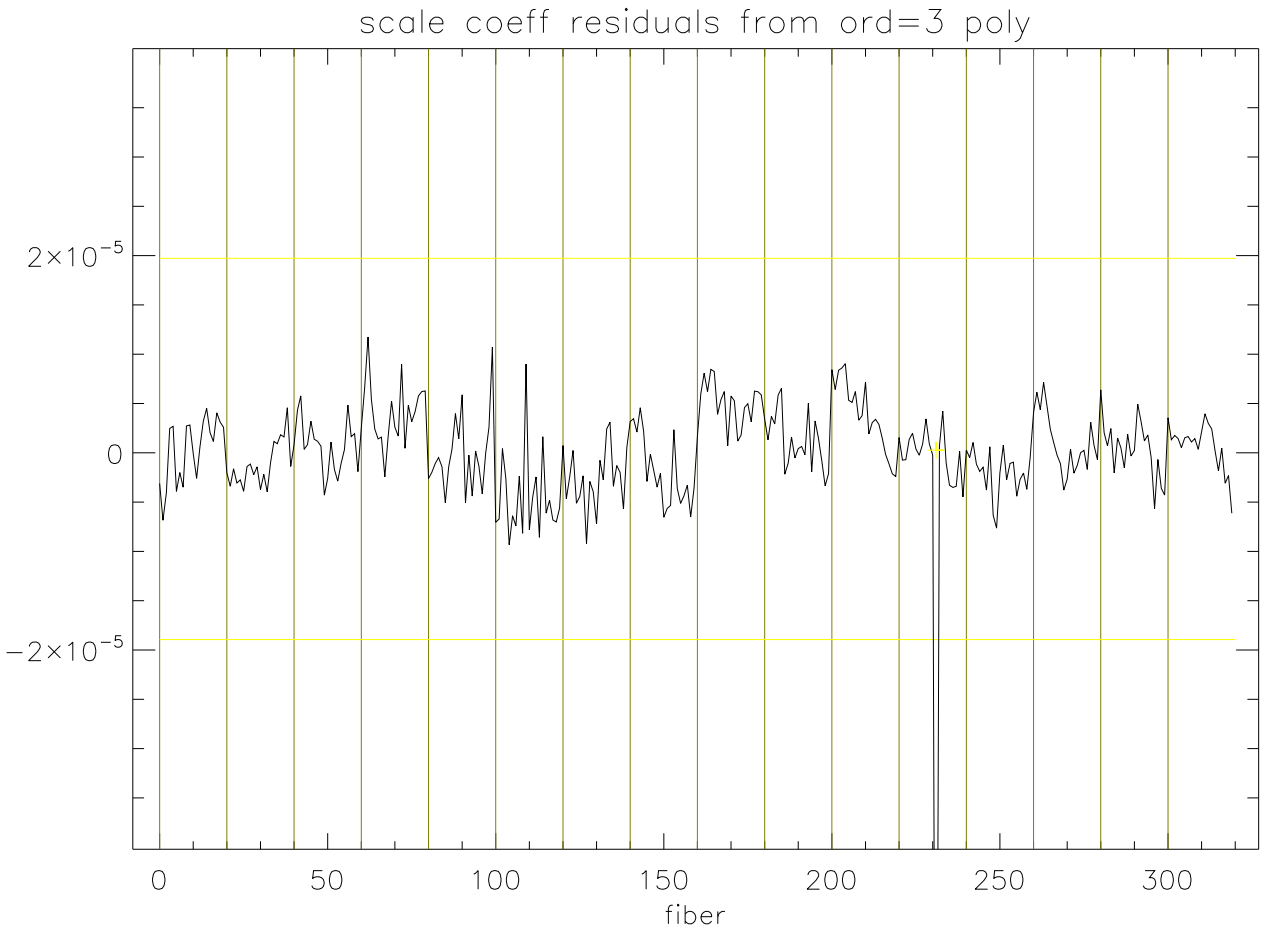

PLATE=2919 MJD=54536 sdR-r1-00050923.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.42 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

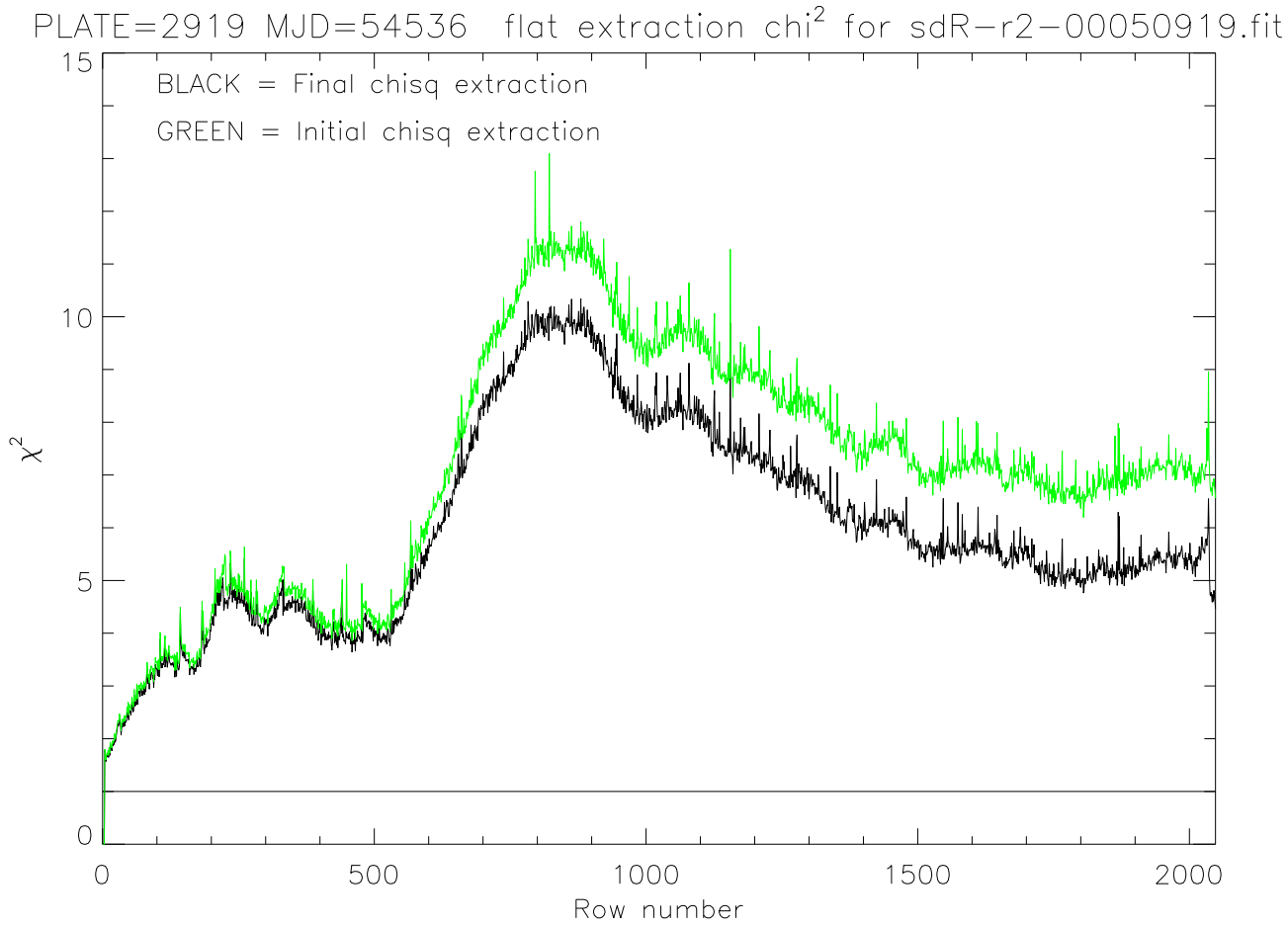

PLATE=2919 MJD=54536 sdR-r1-00050923.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.29 %
Fiber number
Focal Distance [mm]
Airmass

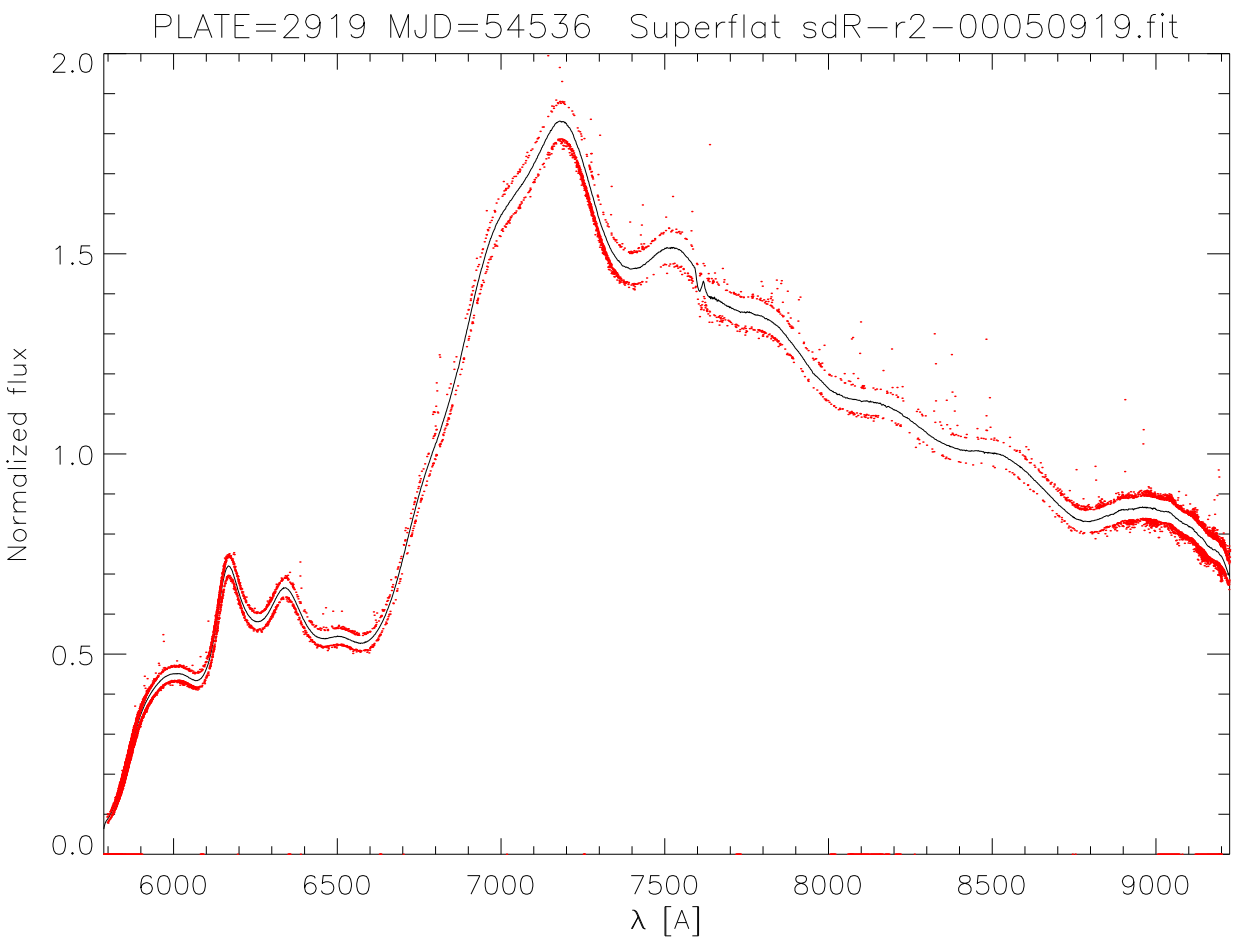

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

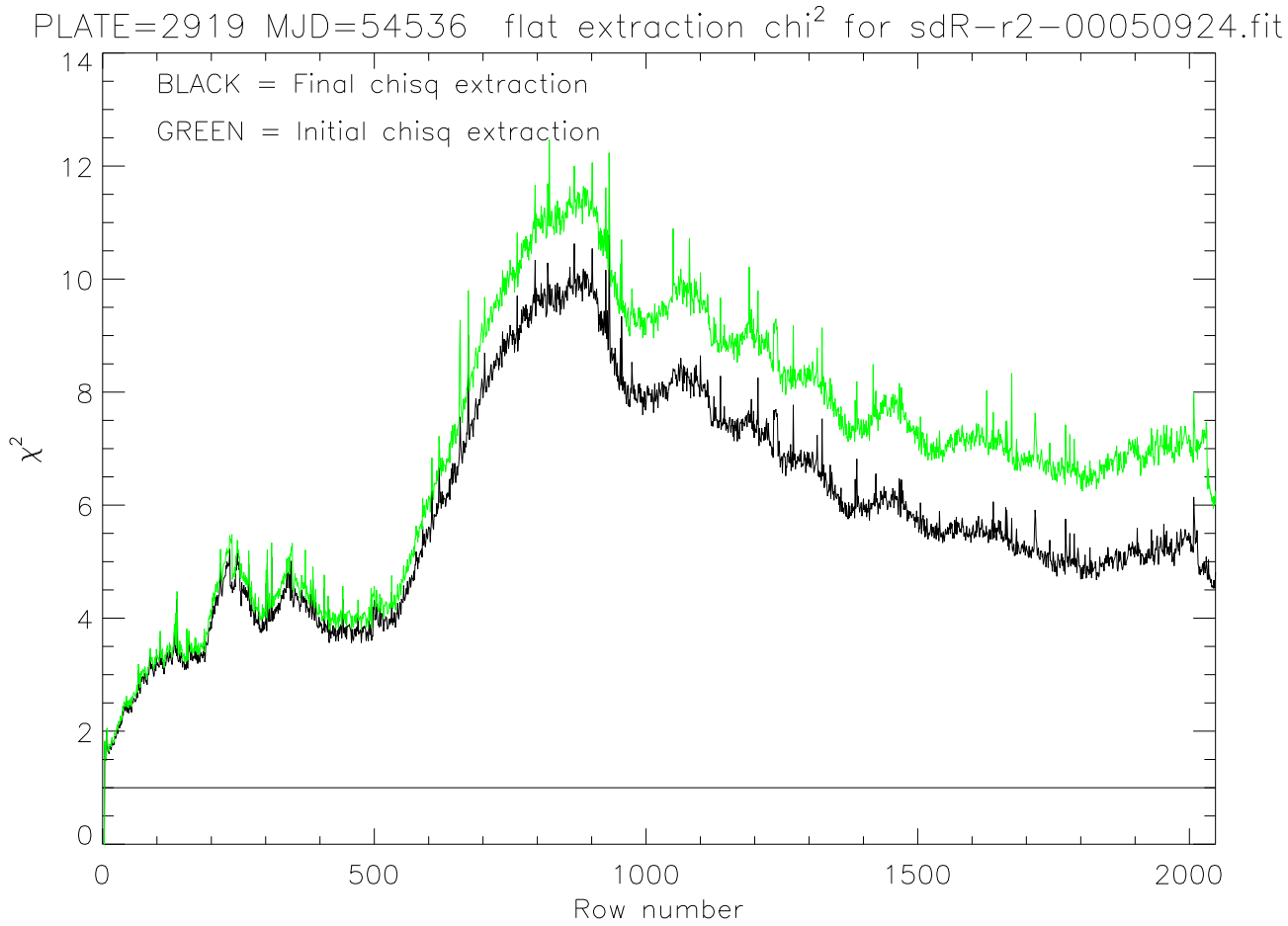

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
0
50
100
150
200
250
300
fiber

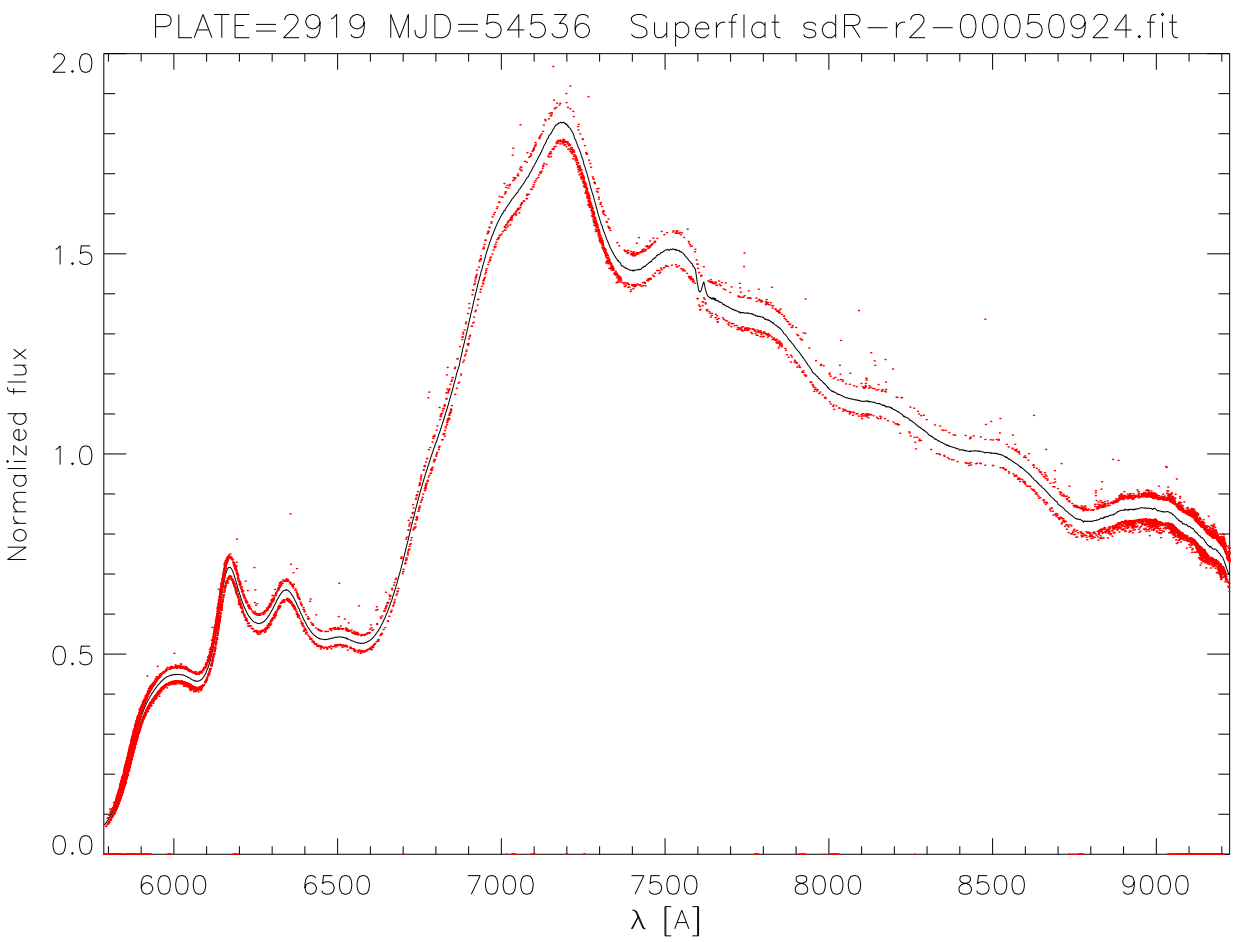

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

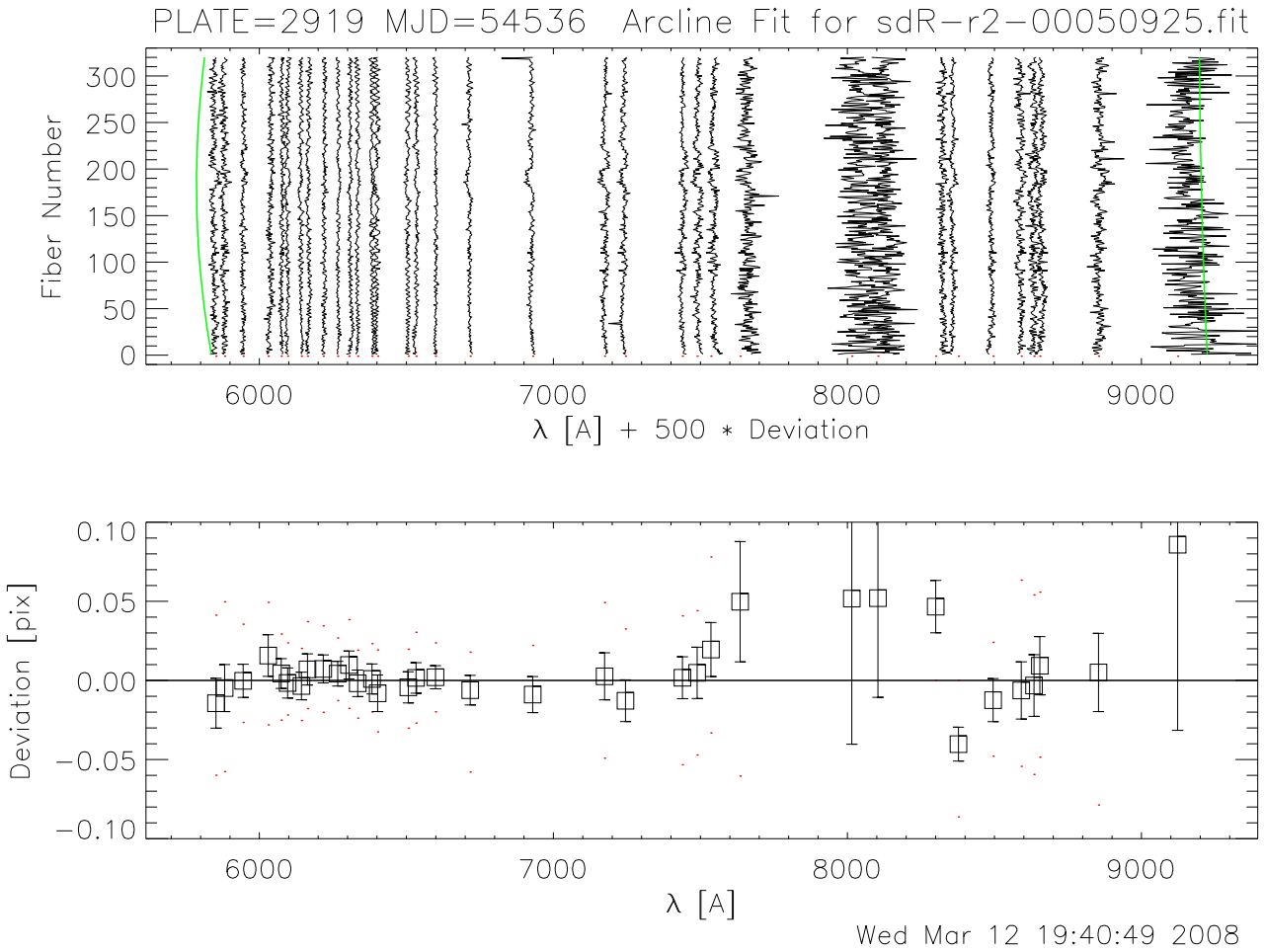

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

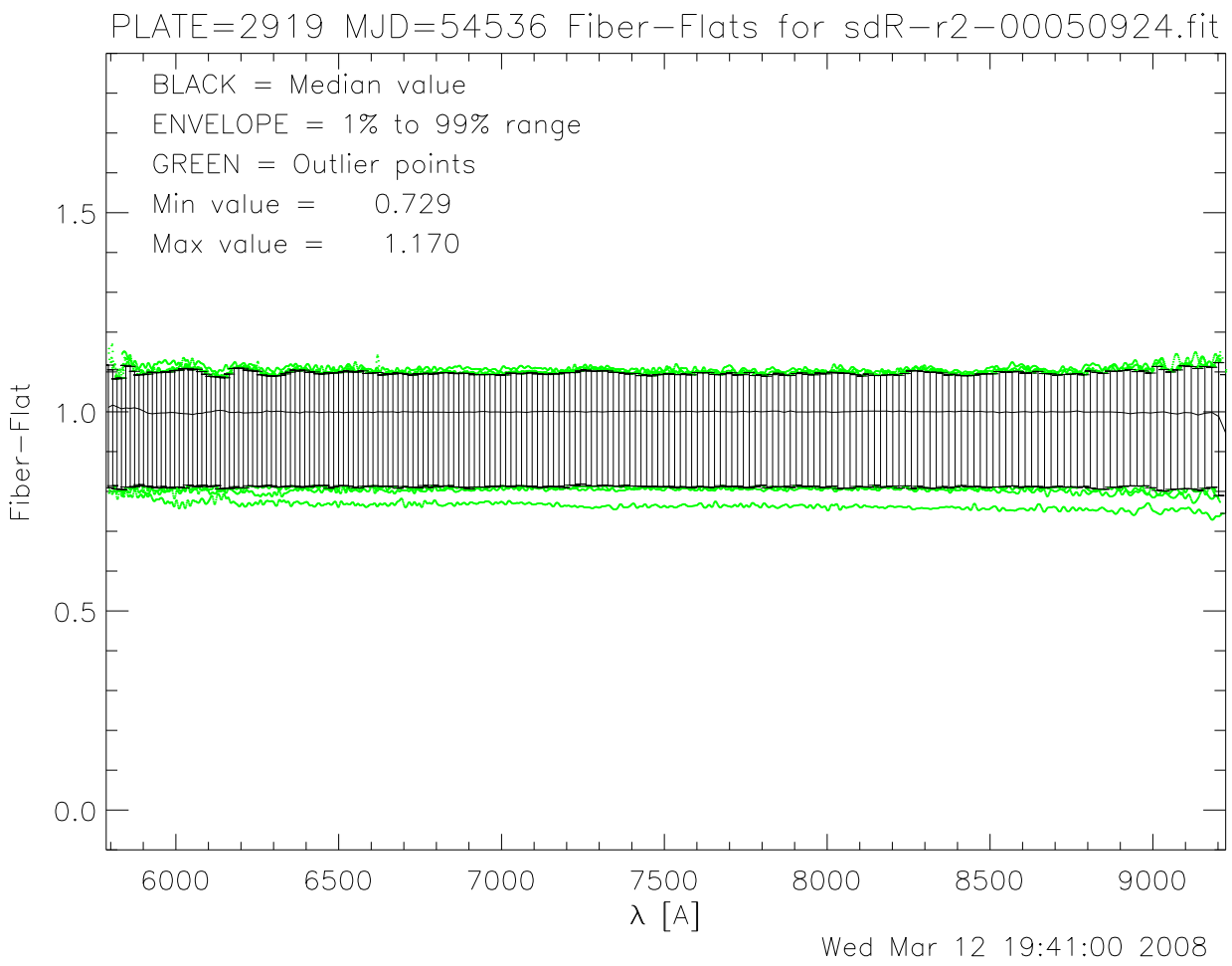

PLATE=2919 MJD=54536 flat extraction chi^2 for sdR−r2−00050919.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

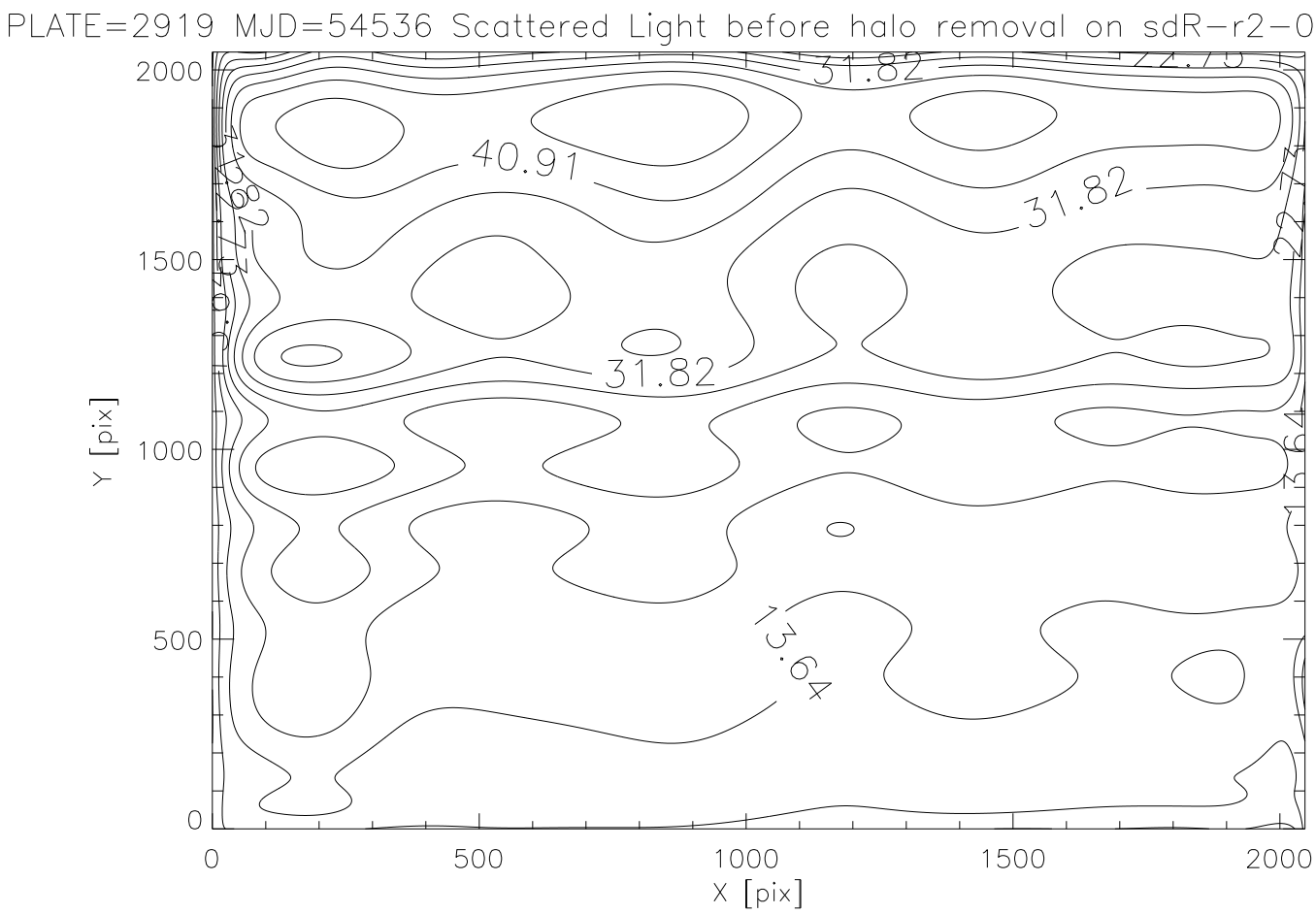

PLATE=2919 MJD=54536 Superflat sdR-r2-00050919.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

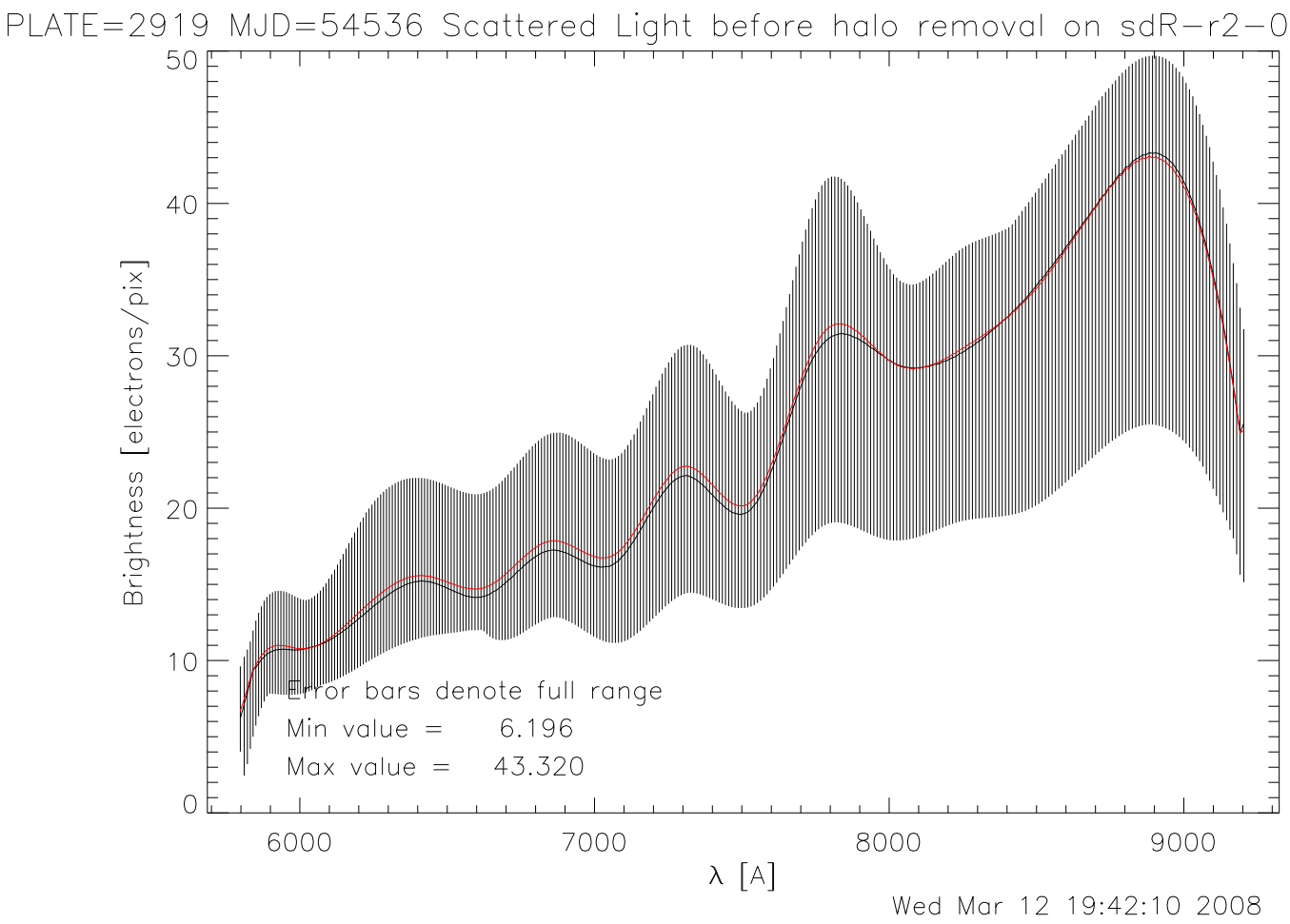

PLATE=2919 MJD=54536 flat extraction chi^2 for sdR−r2−00050924.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

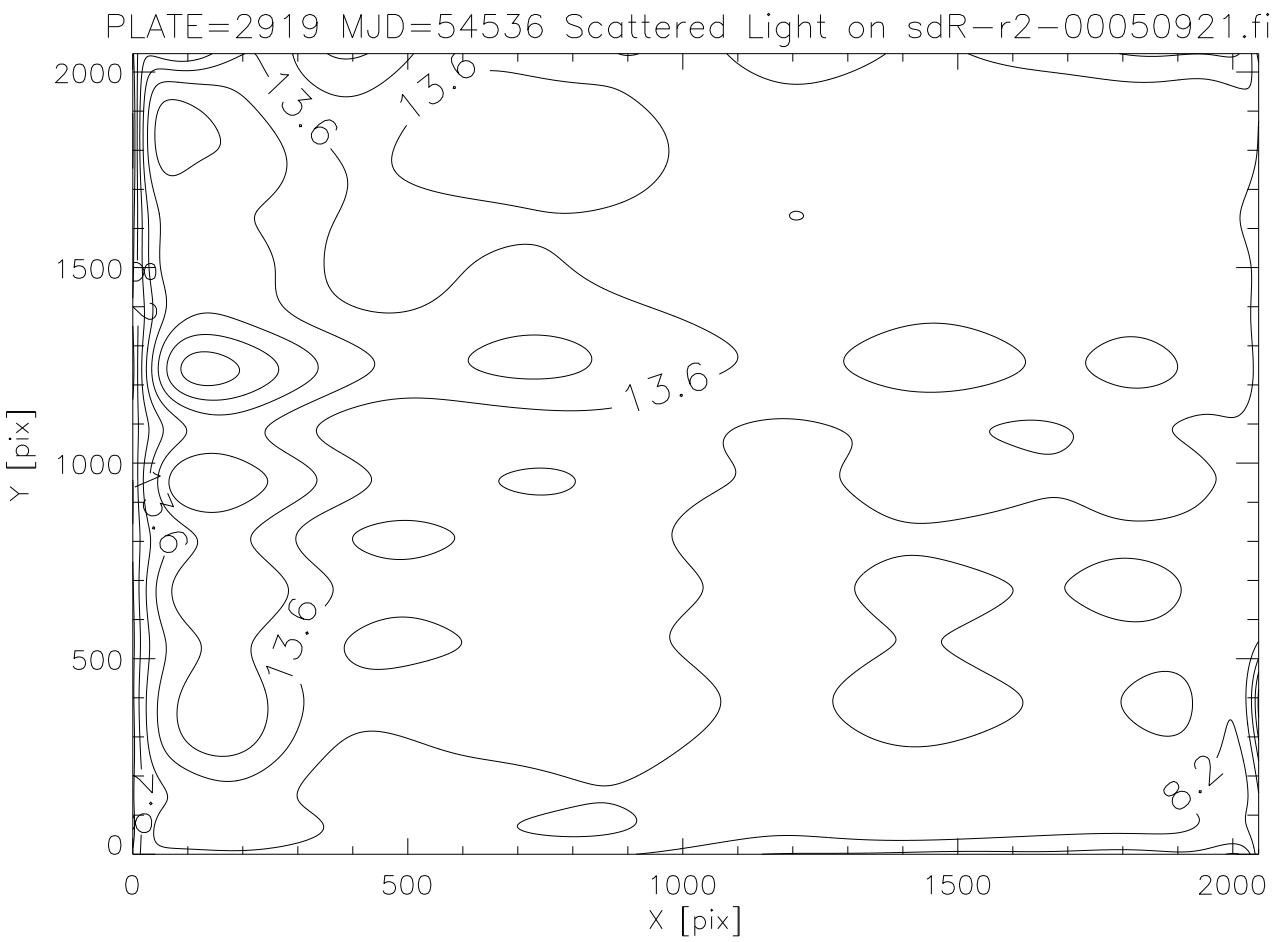

PLATE=2919 MJD=54536 Superflat sdR-r2-00050924.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

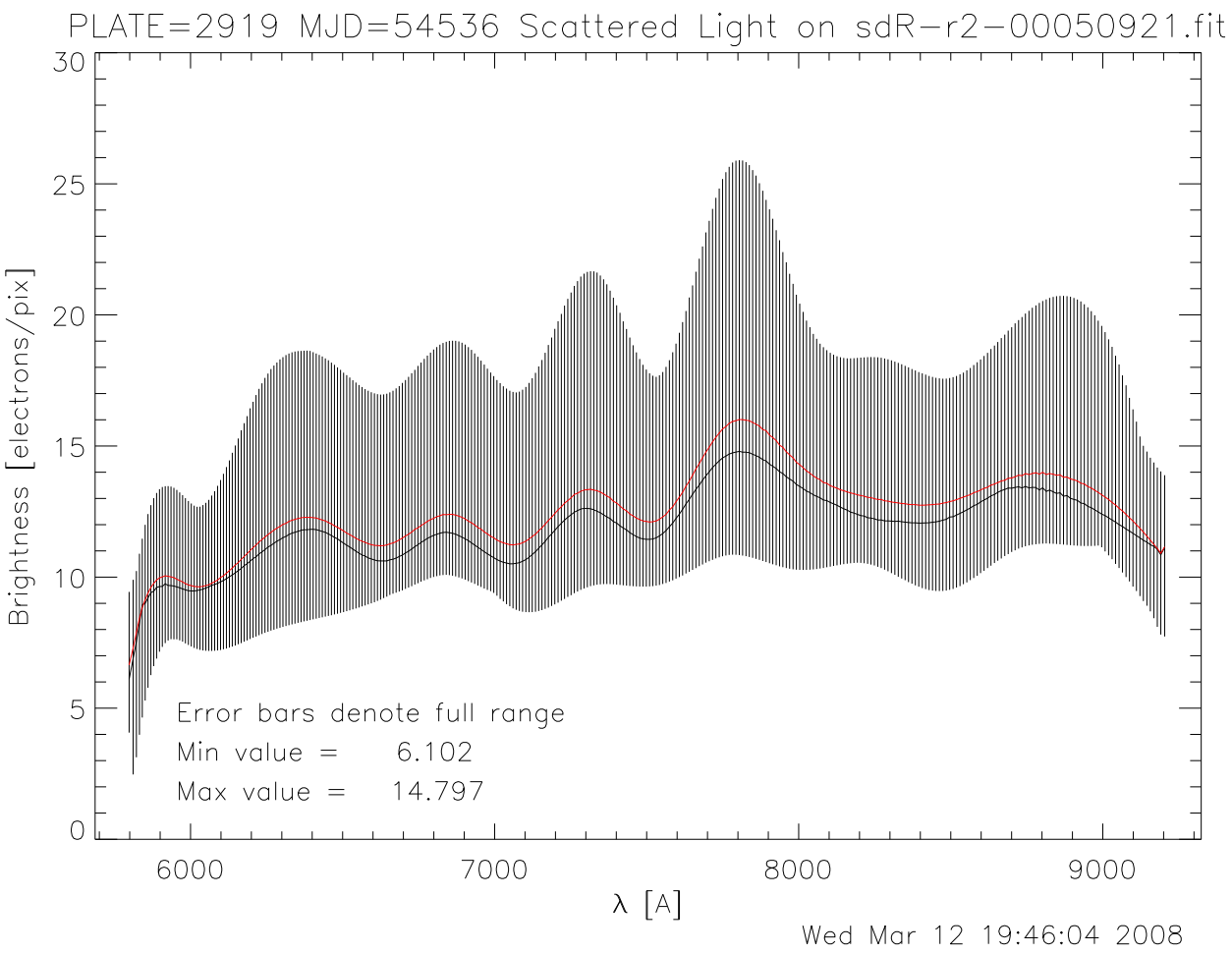

PLATE=2919 MJD=54536 Arcline Fit for sdR-r2-00050925.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Wed Mar 12 19:40:49 2008

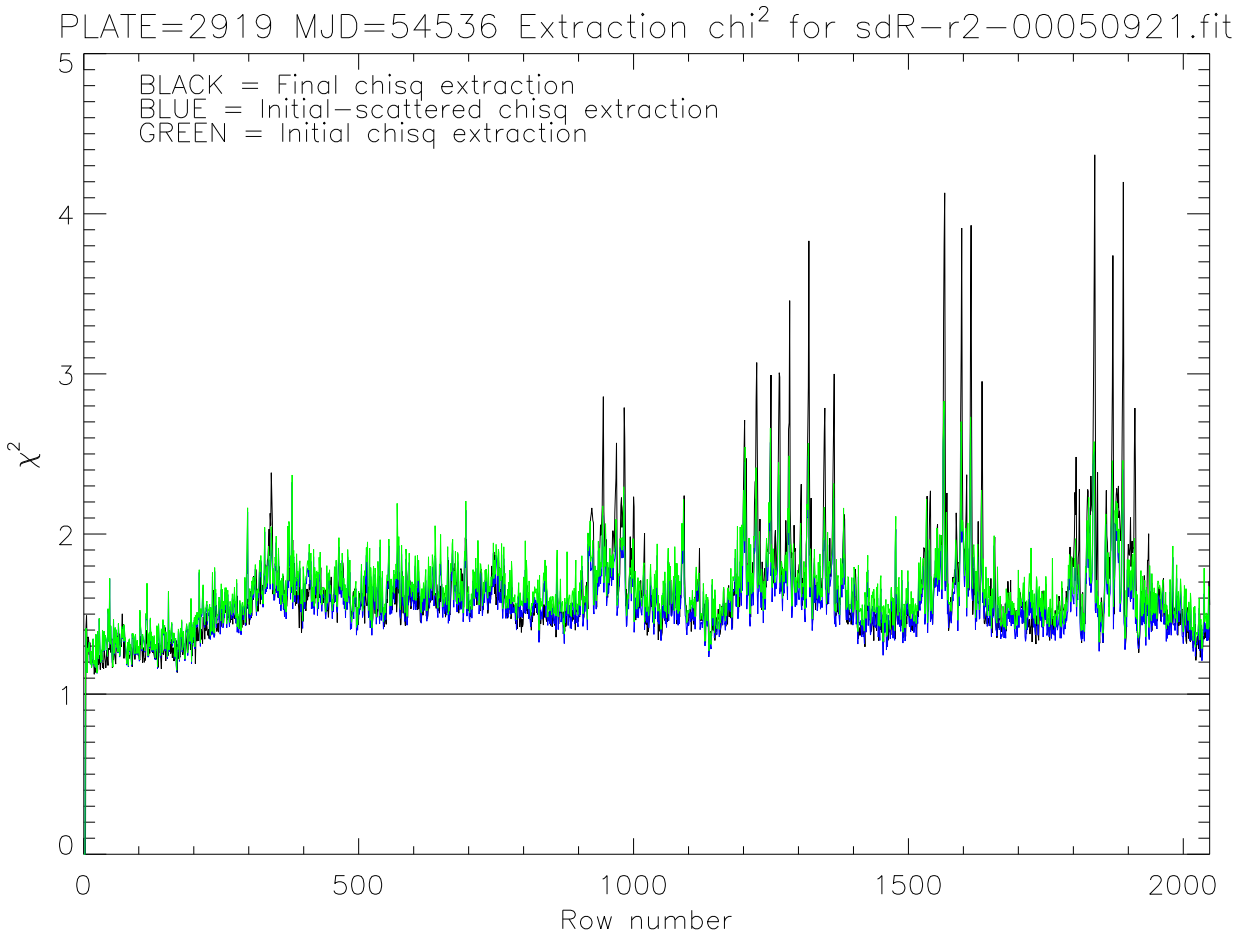

PLATE=2919 MJD=54536 Fiber−Flats for sdR−r2−00050924.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.729
Max value = 1.170
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 19:41:00 2008

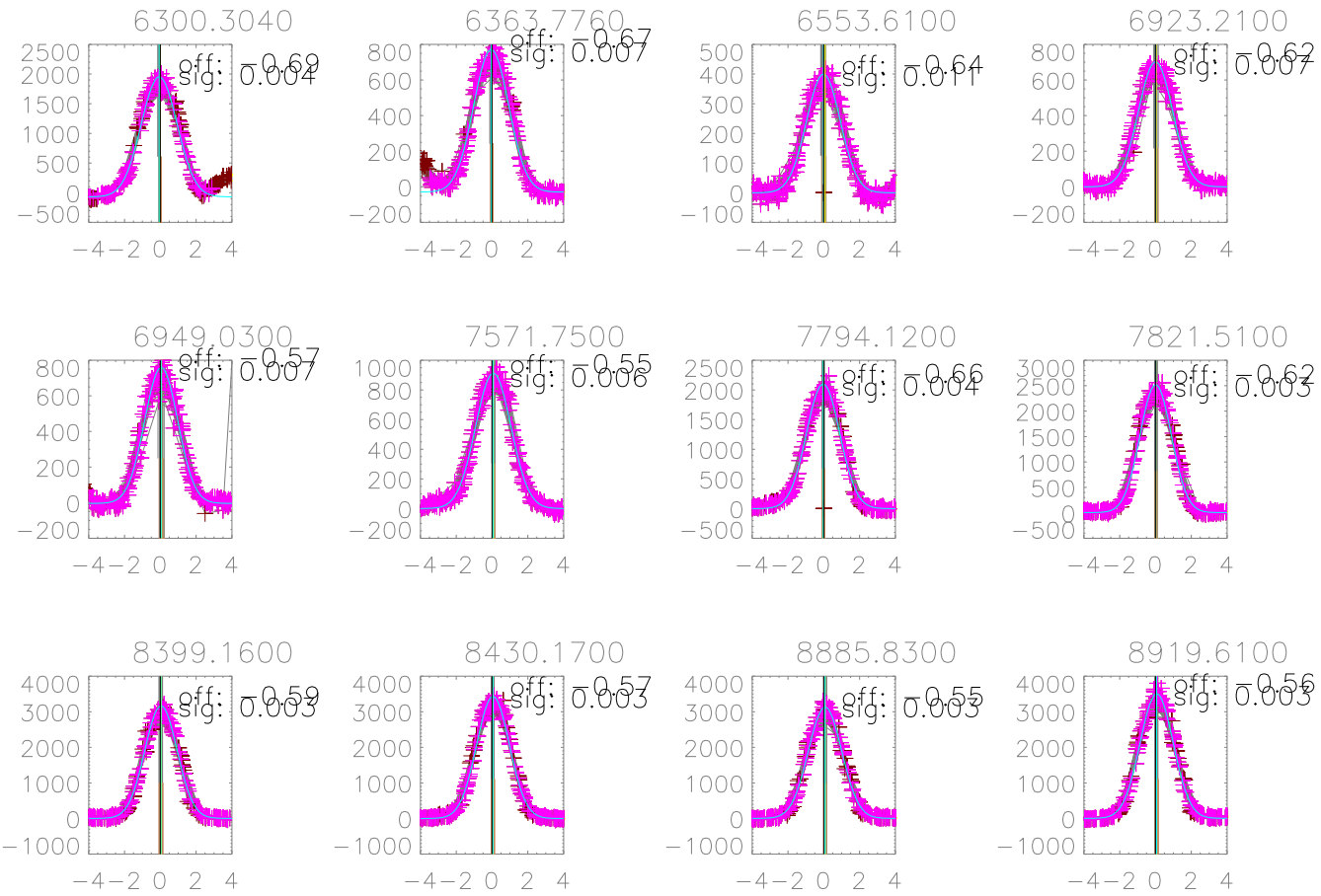

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR−r2−00050921.fi
31.82
40.91
31.82
31.82
13.64
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

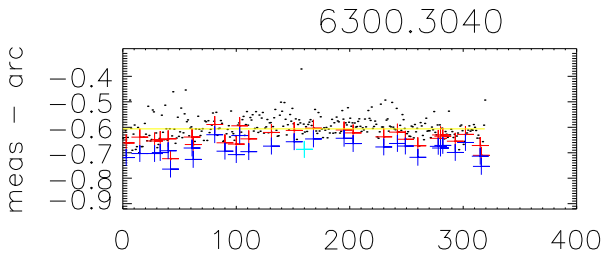

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR-r2-00050921.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.196
Max value = 43.320
Wed Mar 12 19:42:10 2008

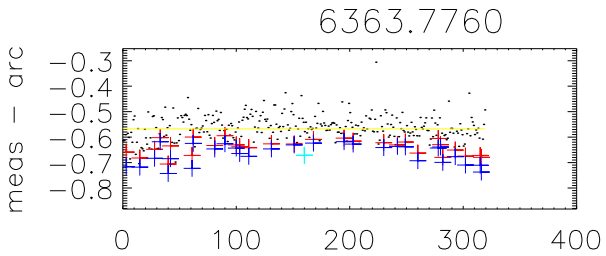

PLATE=2919 MJD=54536 Scattered Light on sdR-r2-00050921.fit
13.6
13.6
13.6
13.6
13.6
8.2
8.2
Y [pix]
X [pix]
0
500
1000
1500
2000

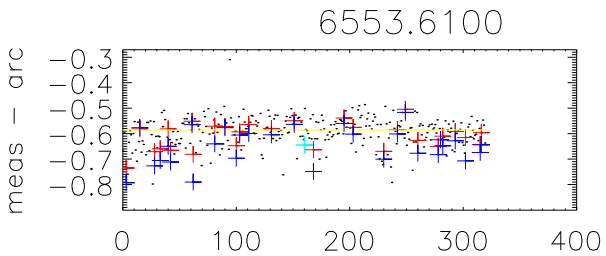

PLATE=2919 MJD=54536 Scattered Light on sdR-r2-00050921.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.102
Max value = 14.797
Wed Mar 12 19:46:04 2008

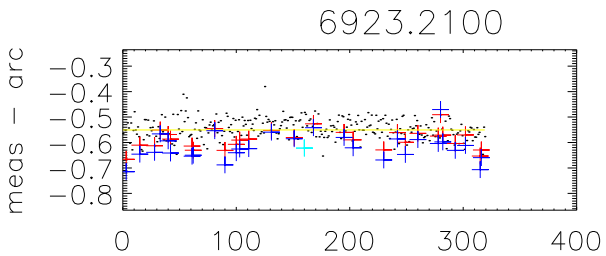

PLATE=2919 MJD=54536 Extraction chi^2 for sdR−r2−00050921.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

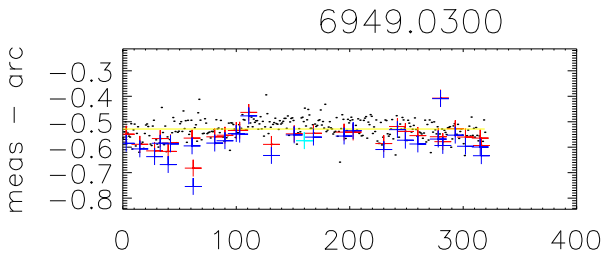

6300.3040
off: −0.69
sig: 0.004
6363.7760
off: −0.67
sig: 0.007
6553.6100
off: −0.64
sig: 0.011
6923.2100
off: −0.62
sig: 0.007
6949.0300
off: −0.57
sig: 0.007
7571.7500
off: −0.55
sig: 0.006
7794.1200
off: −0.66
sig: 0.004
7821.5100
off: −0.62
sig: 0.003
8399.1600
off: −0.59
sig: 0.003
8430.1700
off: −0.57
sig: 0.003
8885.8300
off: −0.55
sig: 0.003
8919.6100
off: −0.56
sig: 0.003

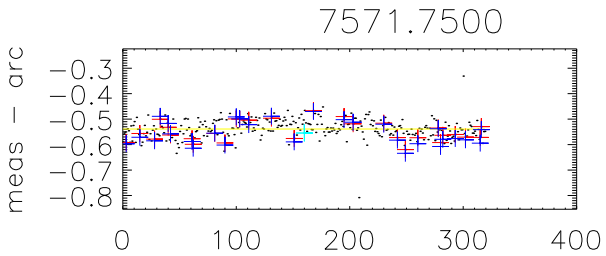

6300.3040
meas − arc
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
0
100
200
300
400

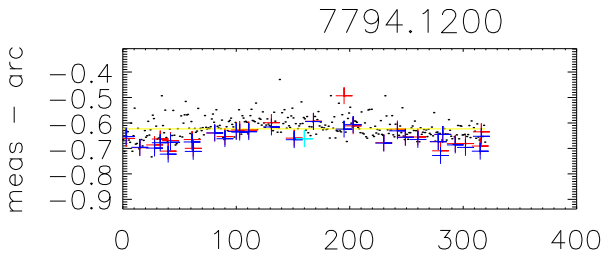

6363.7760
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

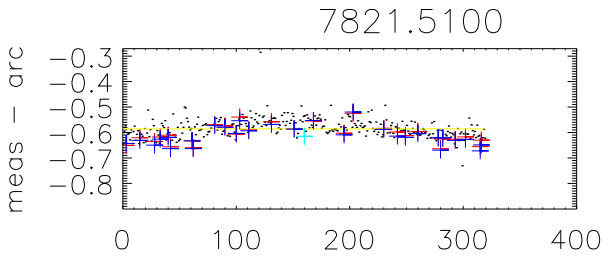

6553.6100
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

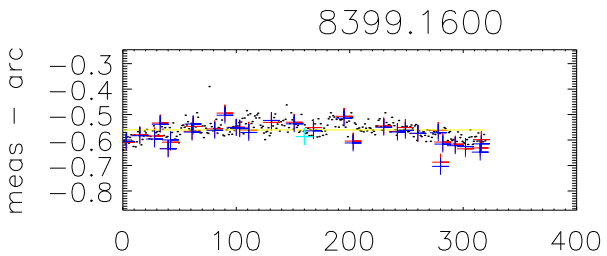

6923.2100
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

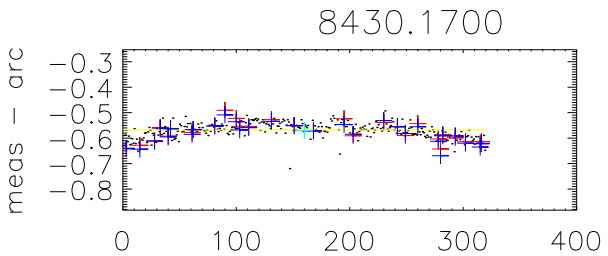

6949.0300
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

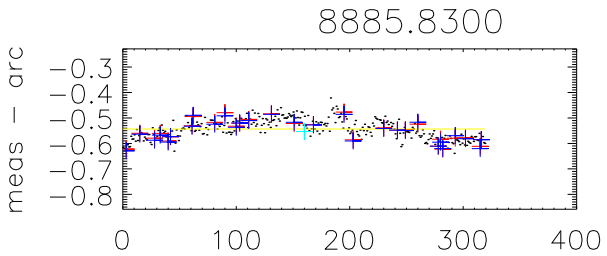

7571.7500
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

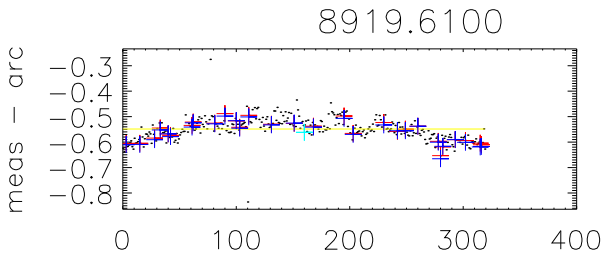

7794.1200
meas − arc
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
0
100
200
300
400

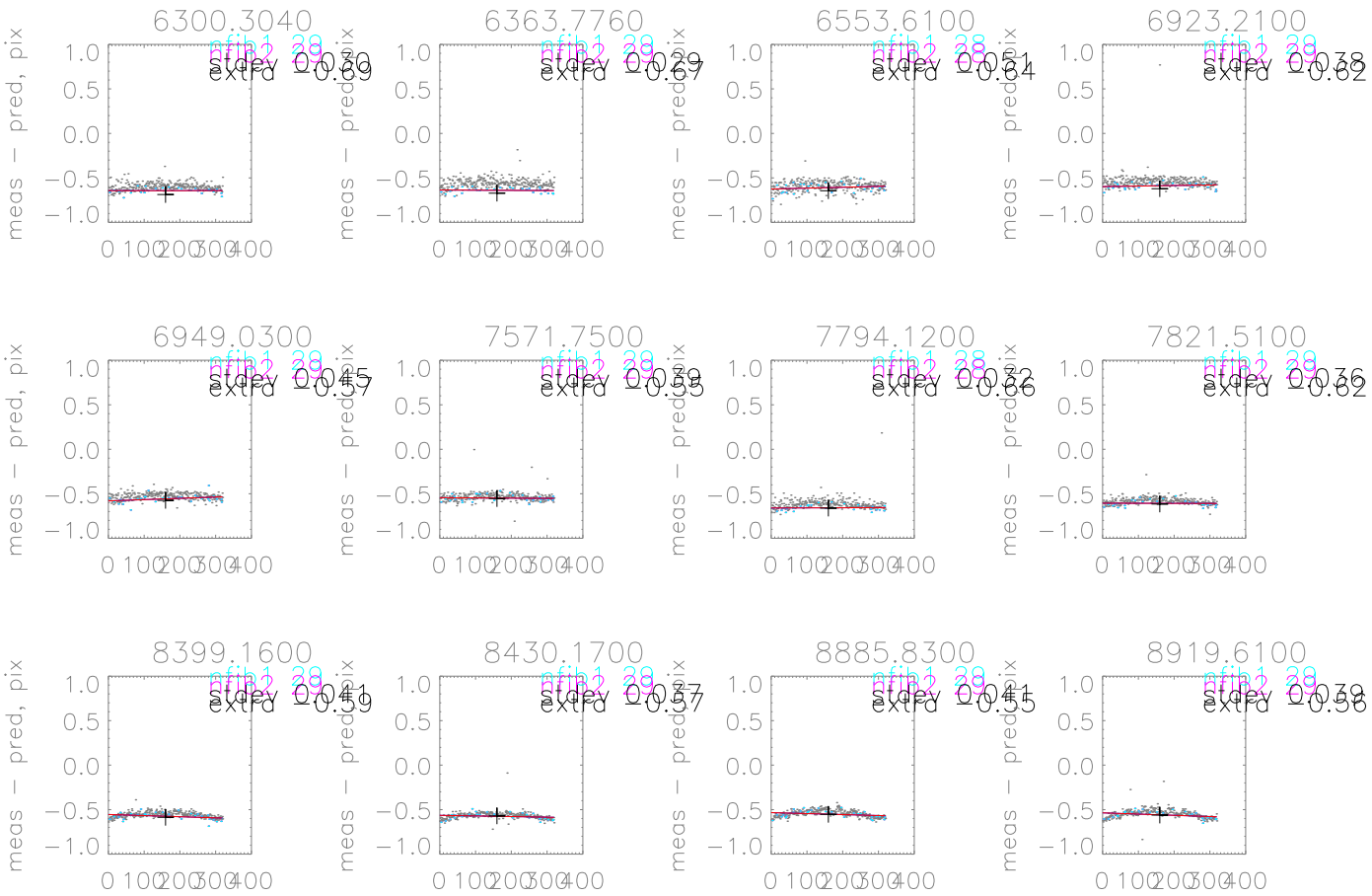

7821.5100
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

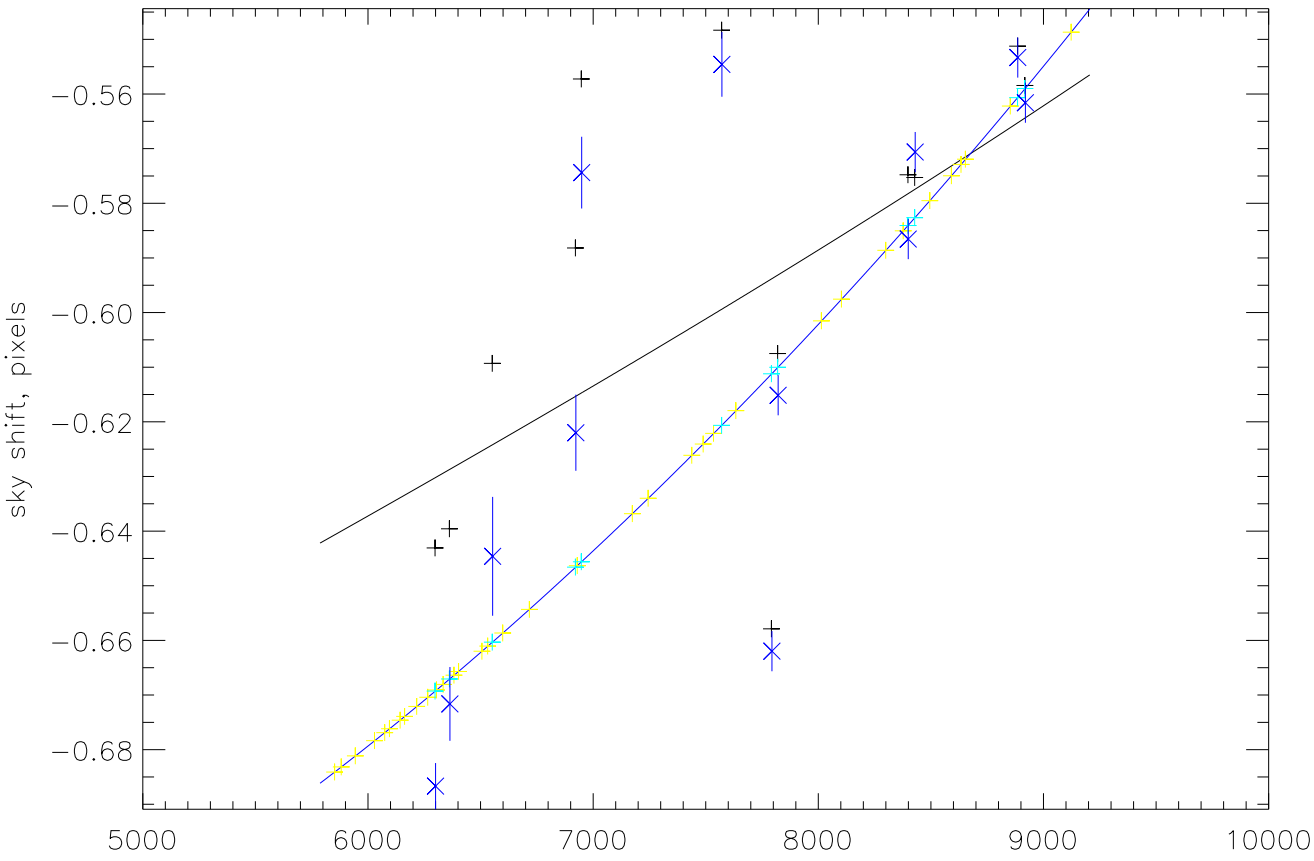

8399.1600
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

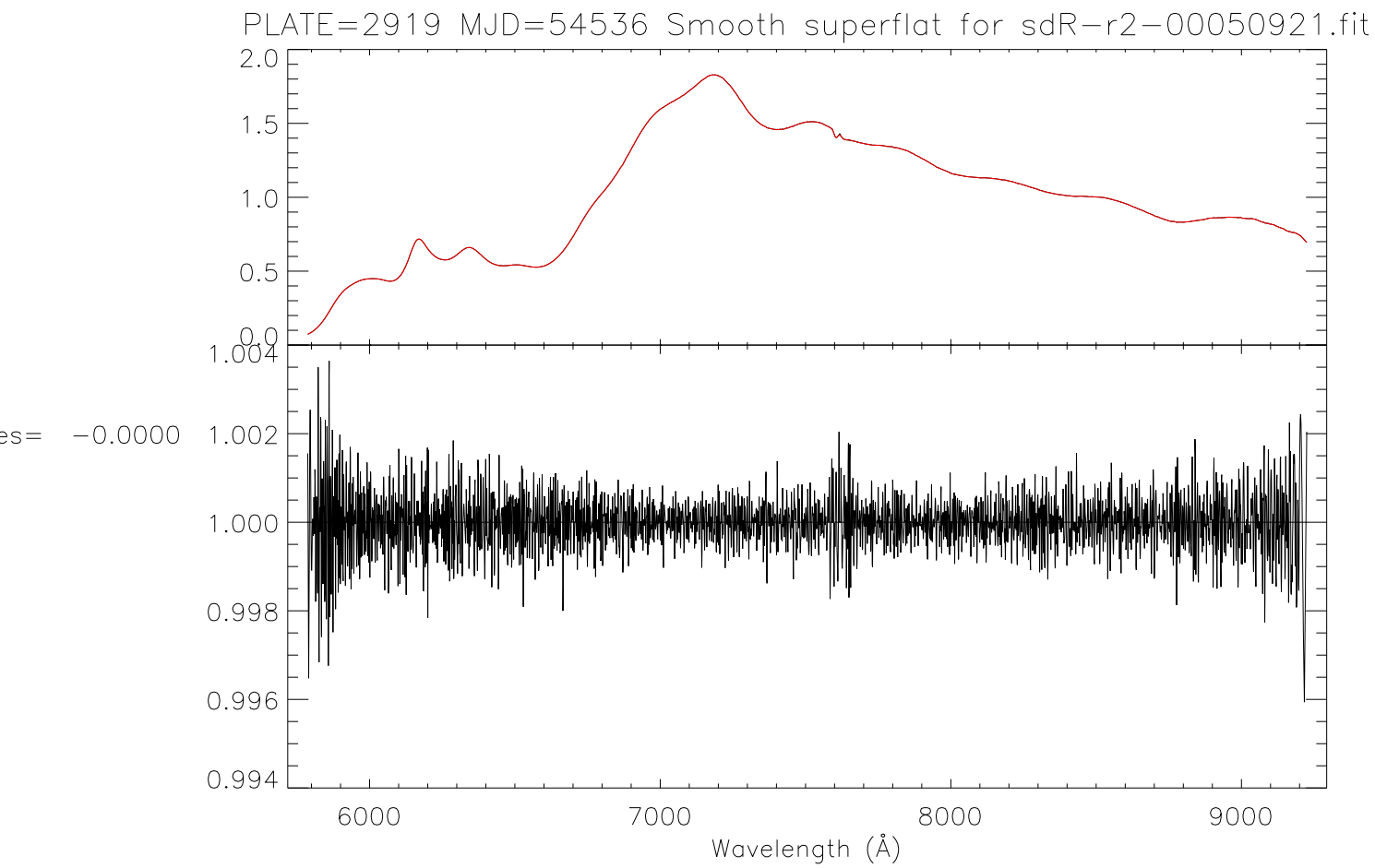

8430.1700
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

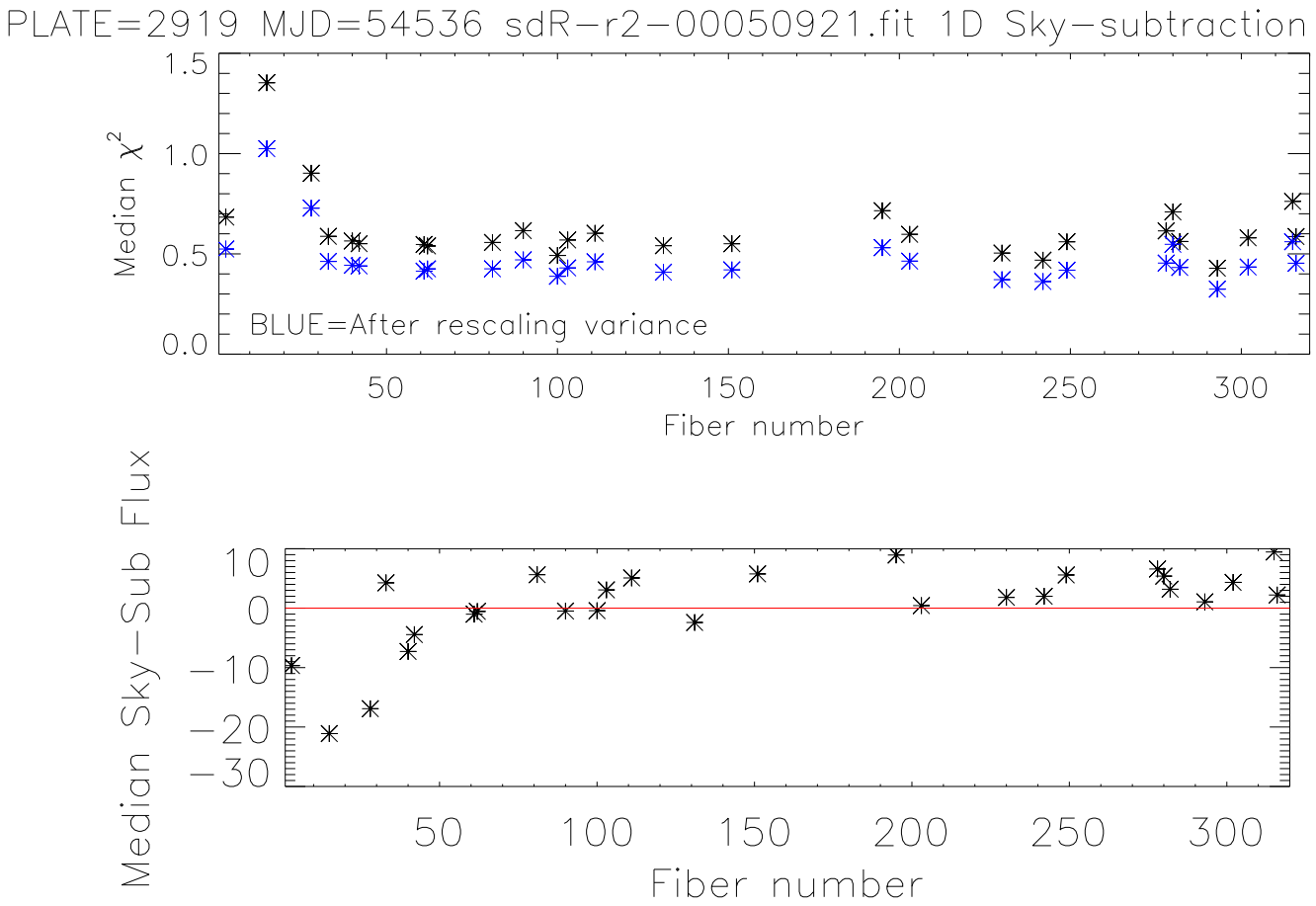

8885.8300
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

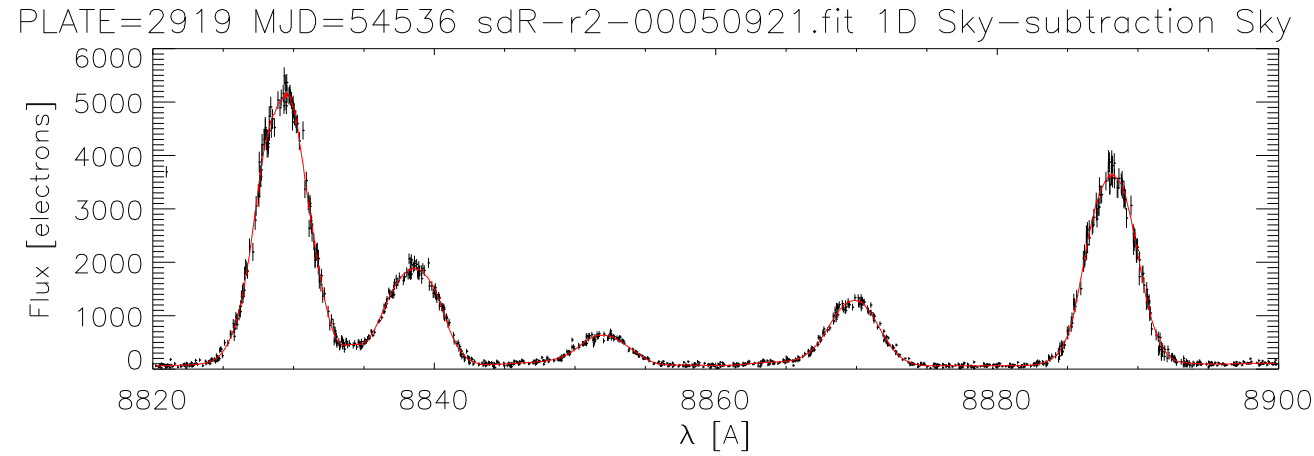

8919.6100
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

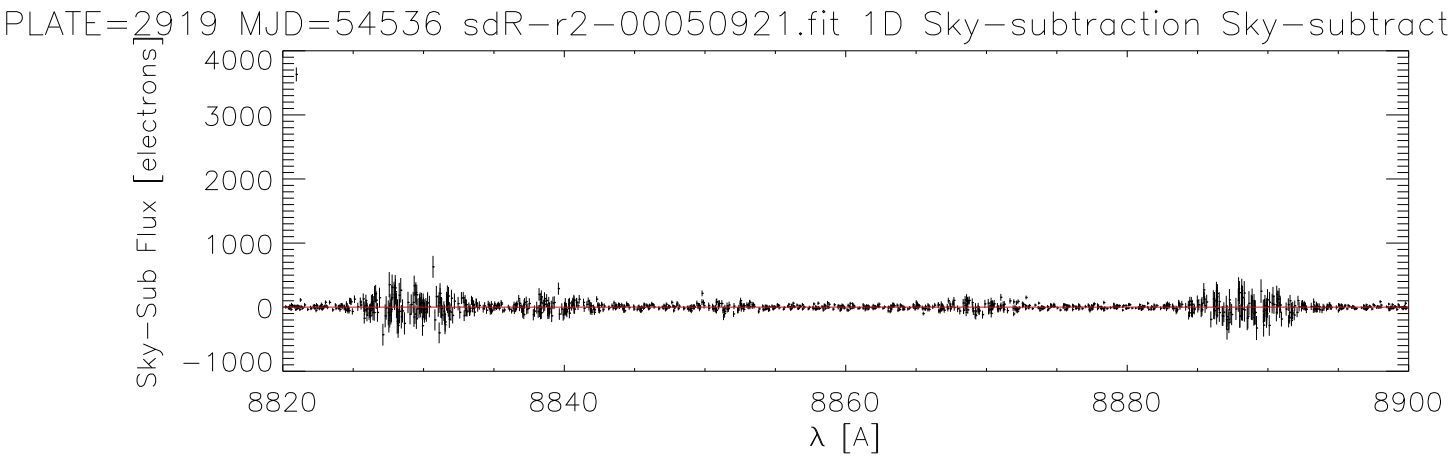

6300.3040
mfhd1 28
mfhd2 28
stdev 0.030
extra 0.69
6363.7760
mfhd1 28
mfhd2 28
stdev 0.029
extra 0.67
6553.6100
mfhd1 28
mfhd2 28
stdev 0.051
extra 0.84
6923.2100
mfhd1 28
mfhd2 28
stdev 0.038
extra 0.82
6949.0300
mfhd1 28
mfhd2 28
stdev 0.045
extra 0.57
7571.7500
mfhd1 28
mfhd2 28
stdev 0.039
extra 0.55
7794.1200
mfhd1 28
mfhd2 28
stdev 0.032
extra 0.66
7821.5100
mfhd1 28
mfhd2 28
stdev 0.036
extra 0.62
8399.1600
mfhd1 28
mfhd2 28
stdev 0.041
extra 0.59
8430.1700
mfhd1 28
mfhd2 28
stdev 0.037
extra 0.57
8885.8300
mfhd1 28
mfhd2 28
stdev 0.041
extra 0.55
8919.6100
mfhd1 28
mfhd2 28
stdev 0.038
extra 0.56
meas − pred, pix
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

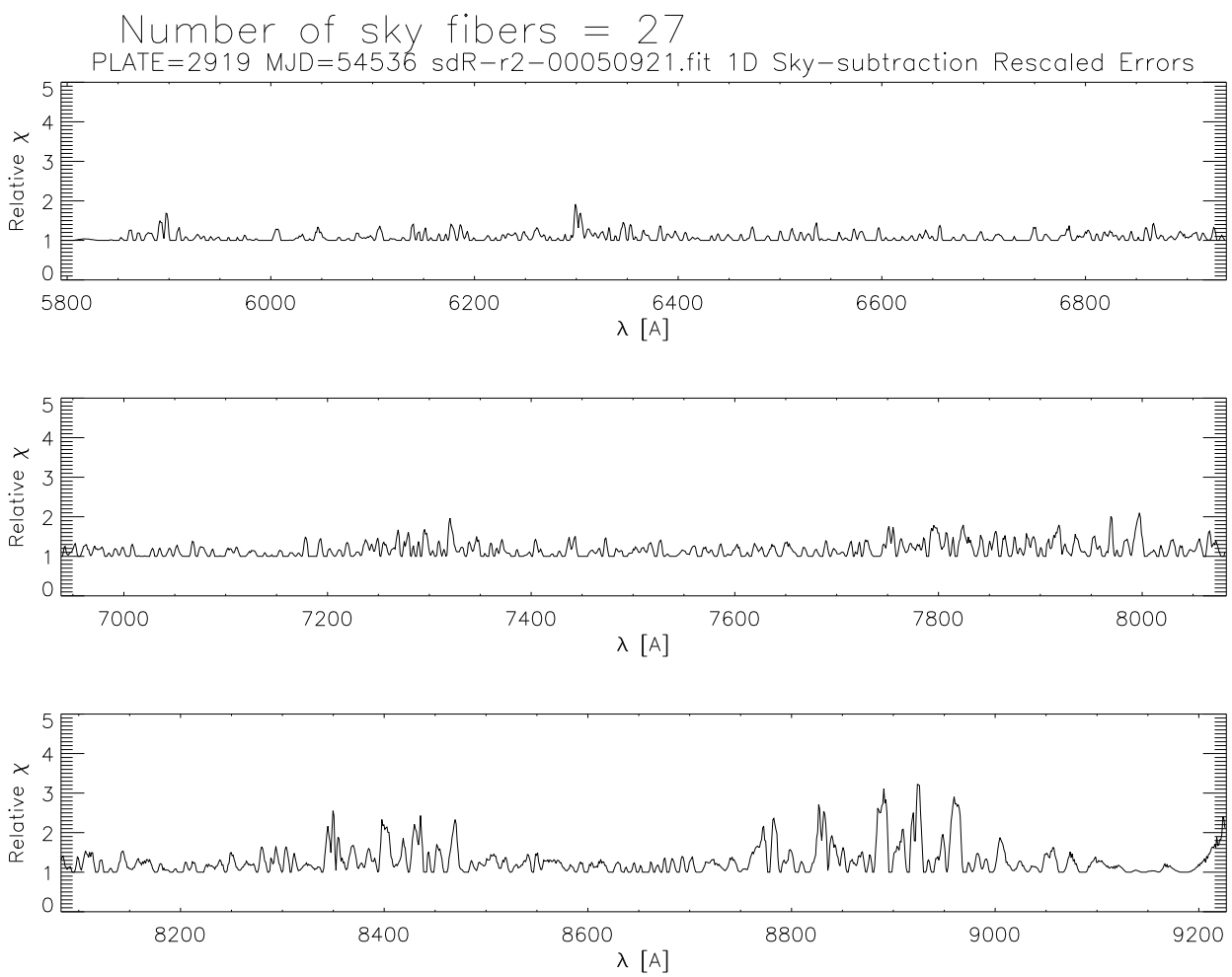

sky shift, pixels
−0.56
−0.58
−0.60
−0.62
−0.64
−0.66
−0.68
5000
6000
7000
8000
9000
10000

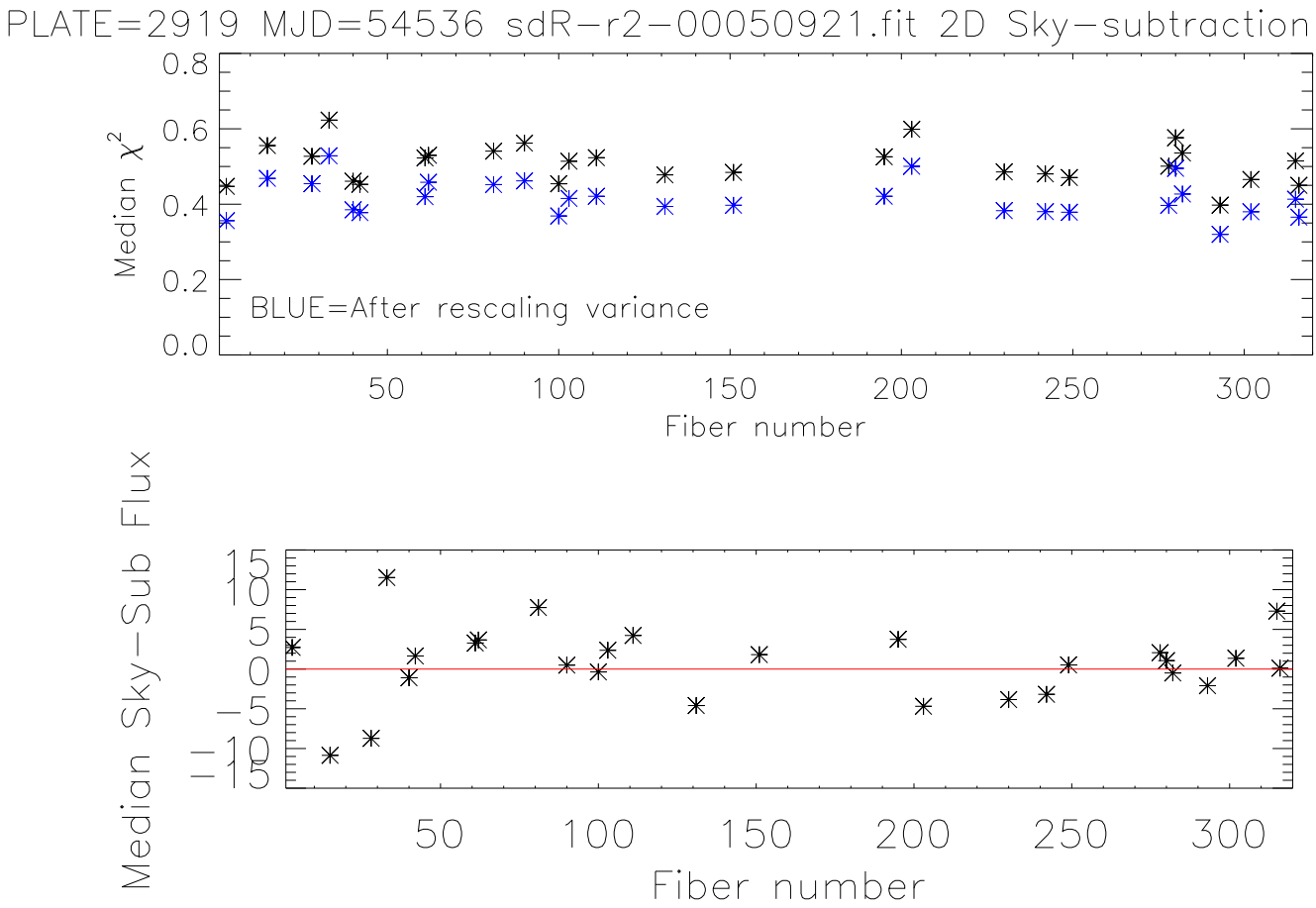

PLATE=2919 MJD=54536 Smooth superflat for sdR-r2-00050921.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

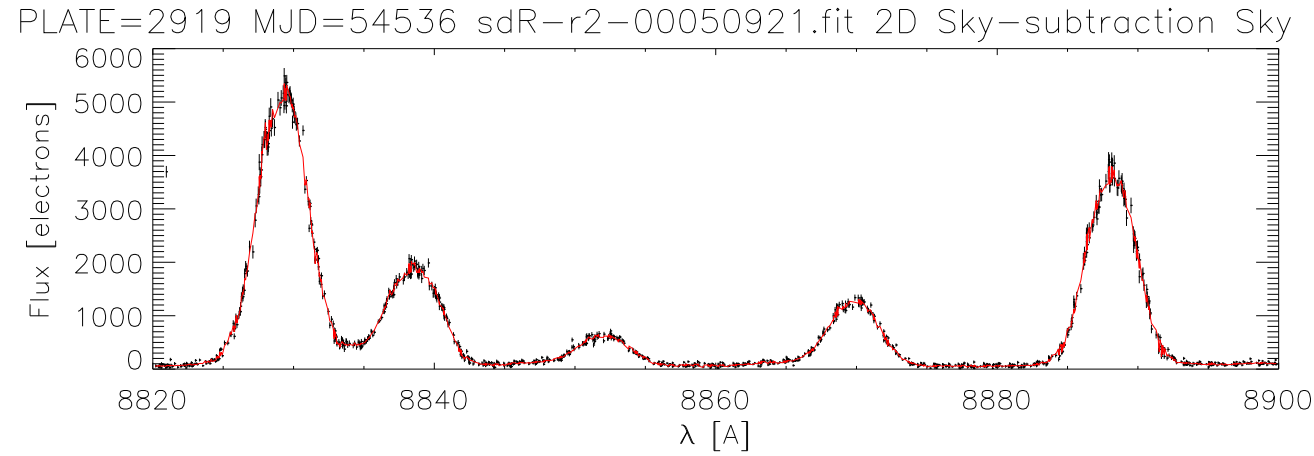

PLATE=2919 MJD=54536 sdR-r2-00050921.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

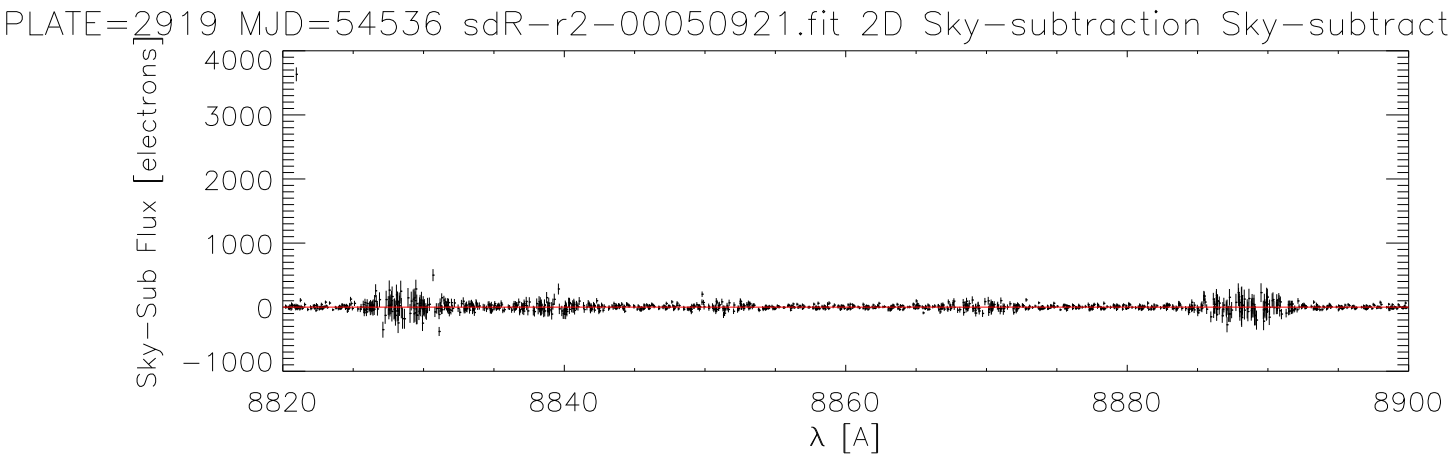

PLATE=2919 MJD=54536 sdR-r2-00050921.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

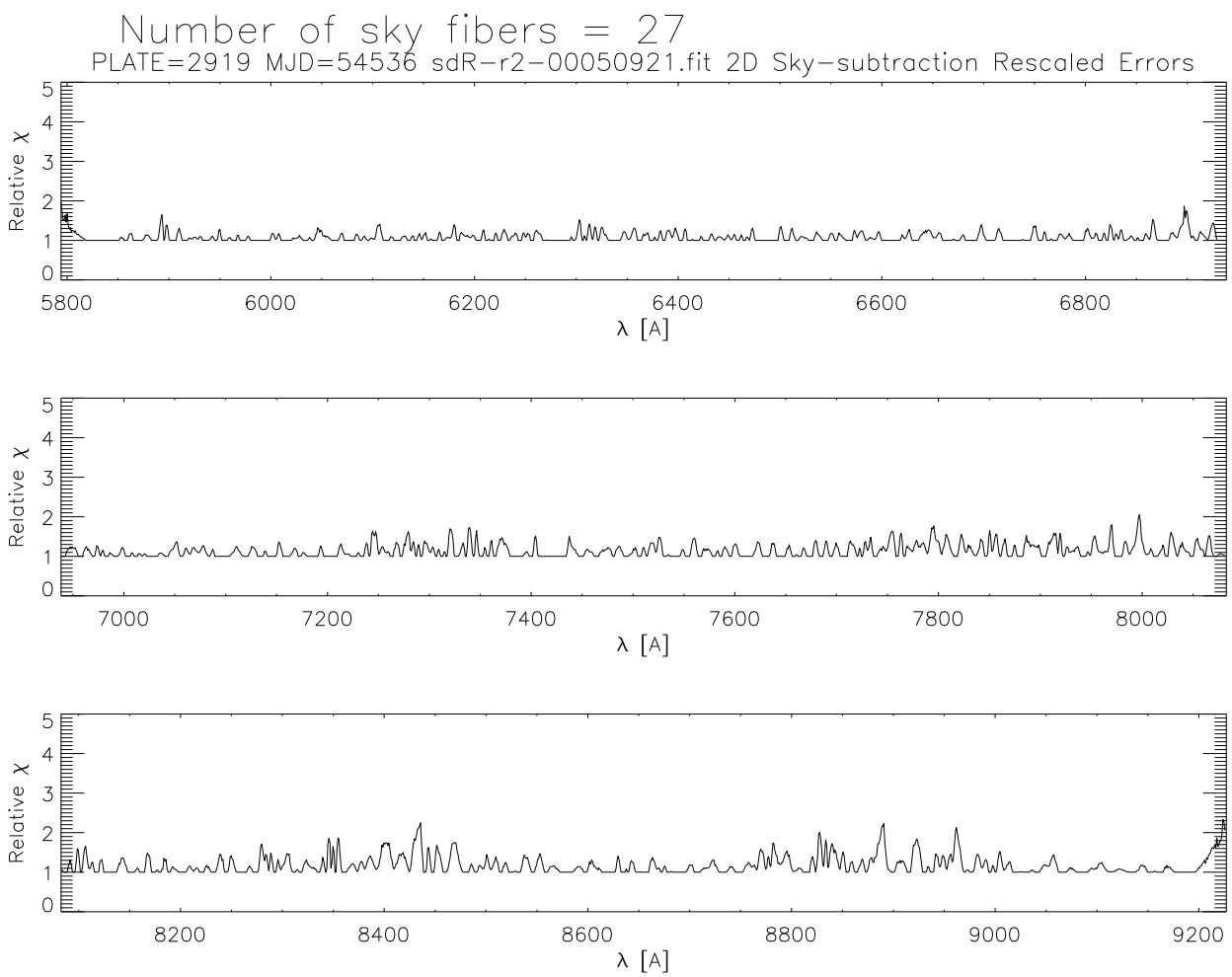

PLATE=2919 MJD=54536 sdR-r2-00050921.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

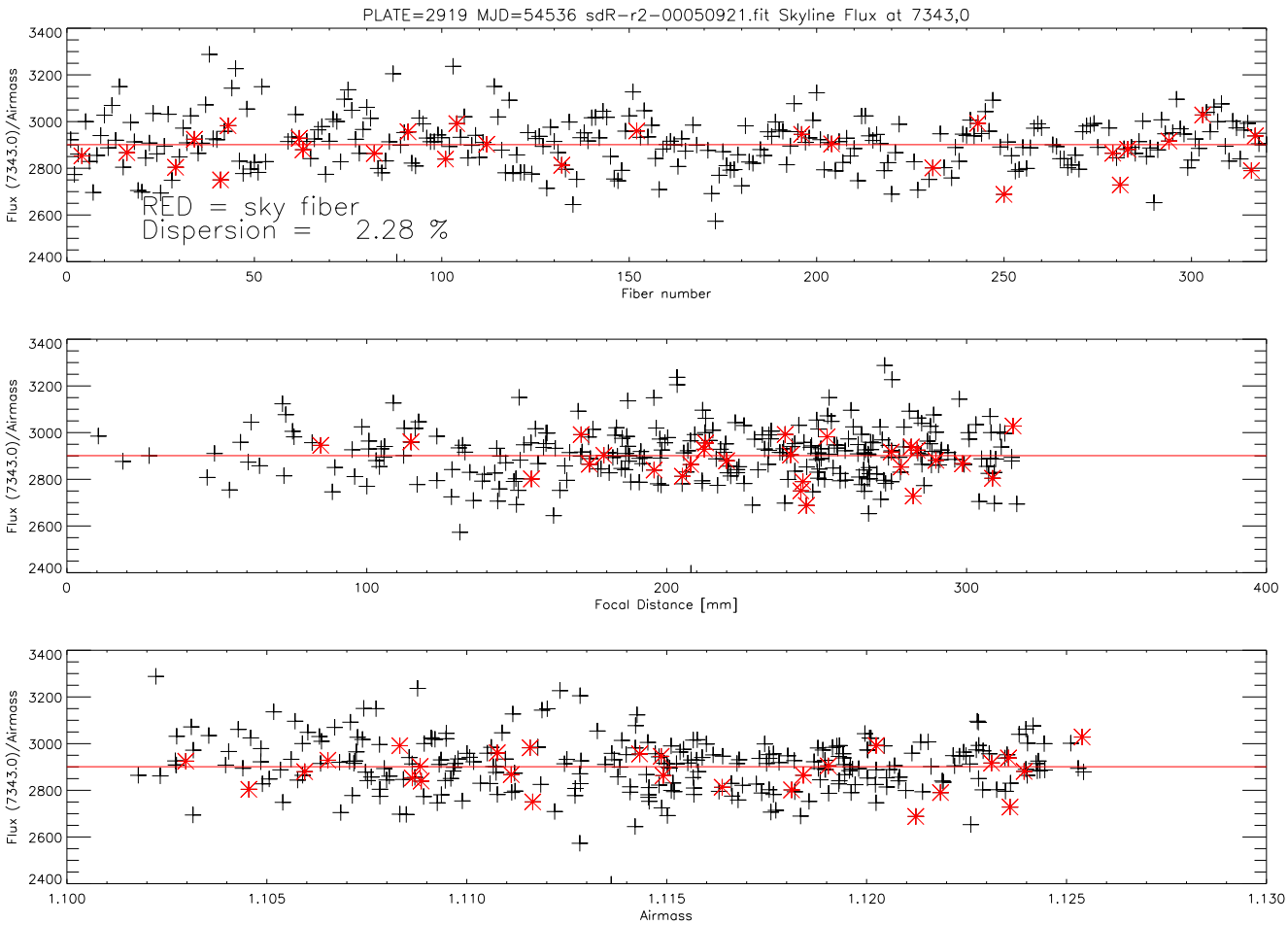

Number of sky fibers = 27
PLATE=2919 MJD=54536 sdR-r2-00050921.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

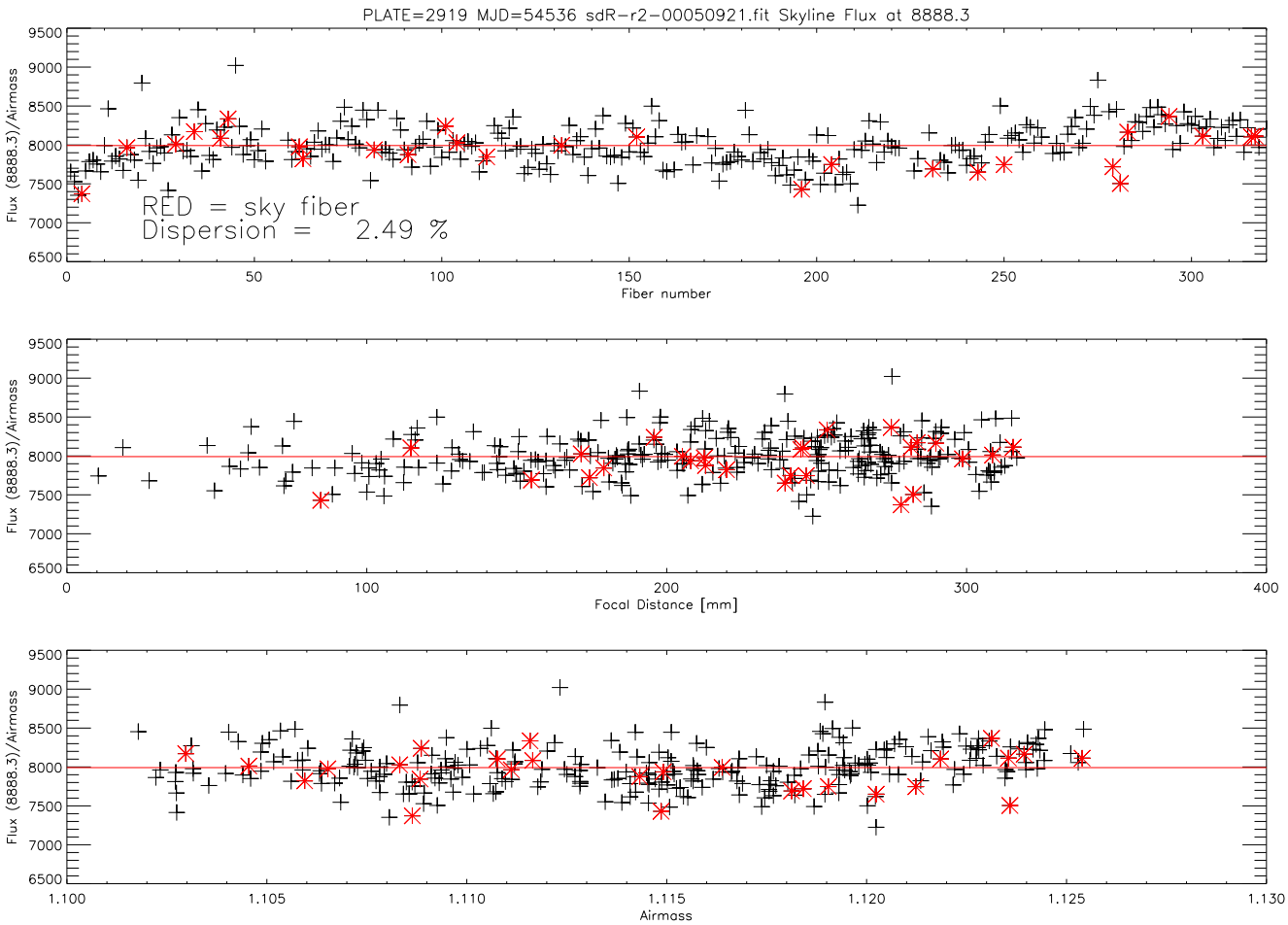

PLATE=2919 MJD=54536 sdR-r2-00050921.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

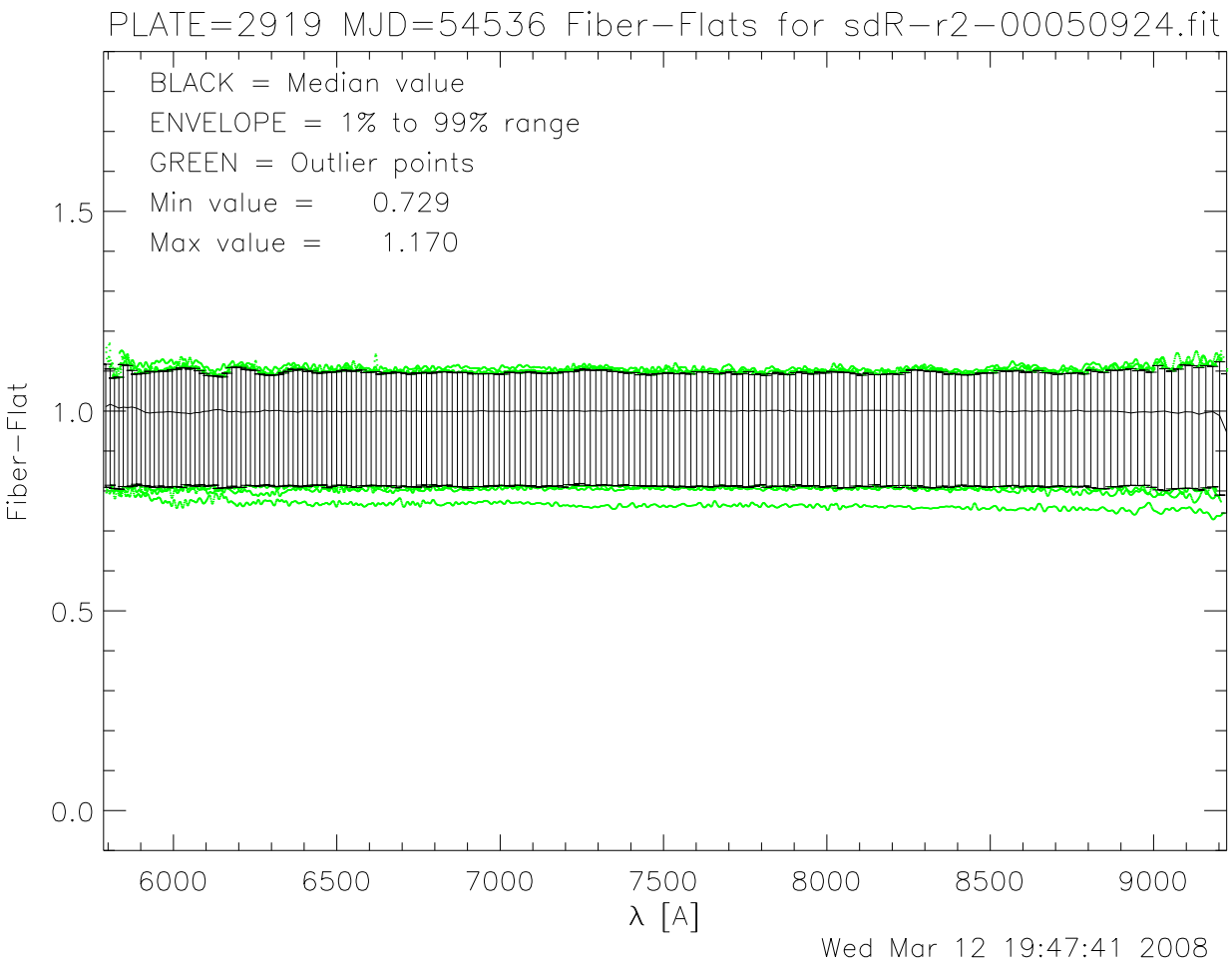

PLATE=2919 MJD=54536 sdR-r2-00050921.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

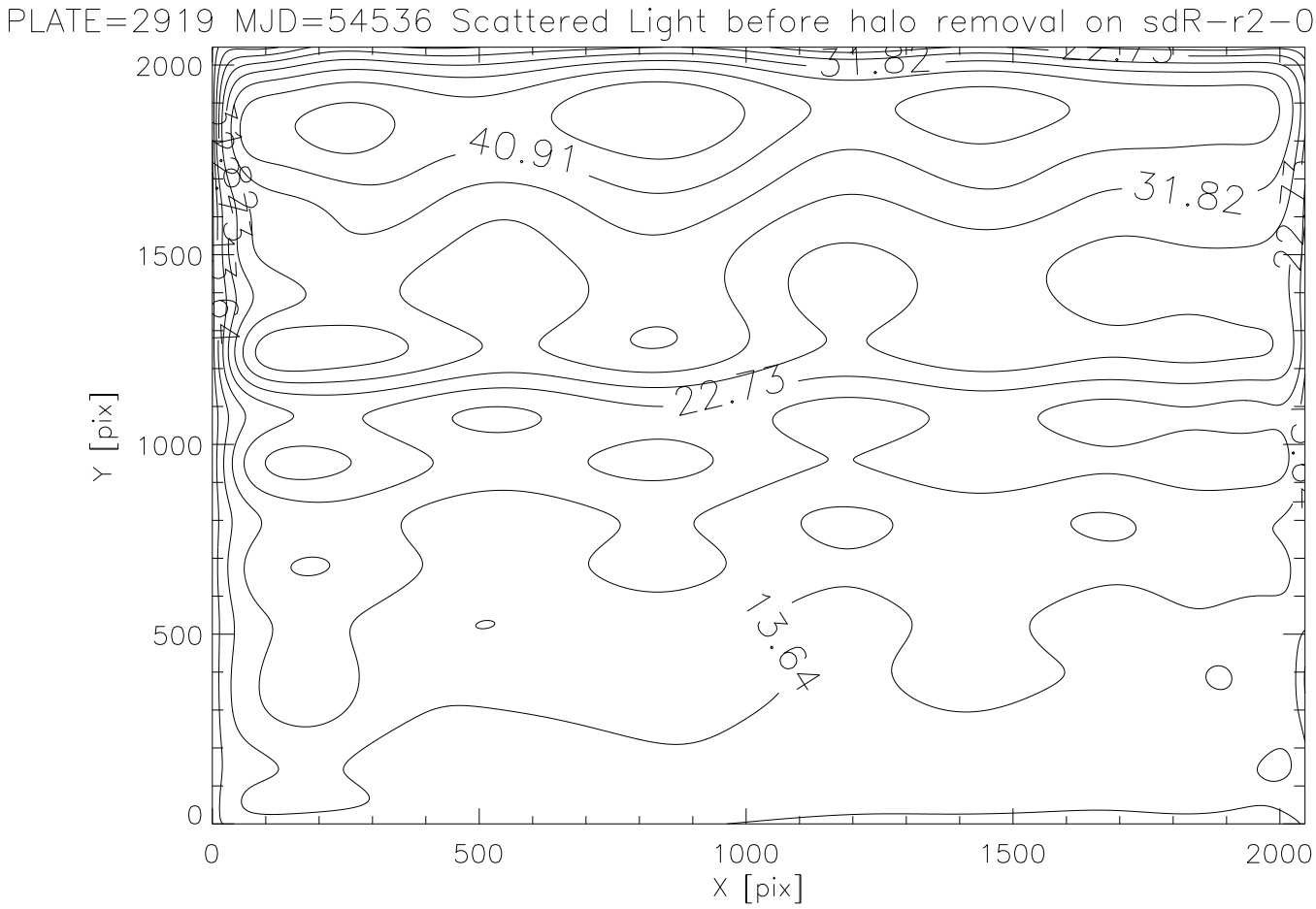

PLATE=2919 MJD=54536 sdR-r2-00050921.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

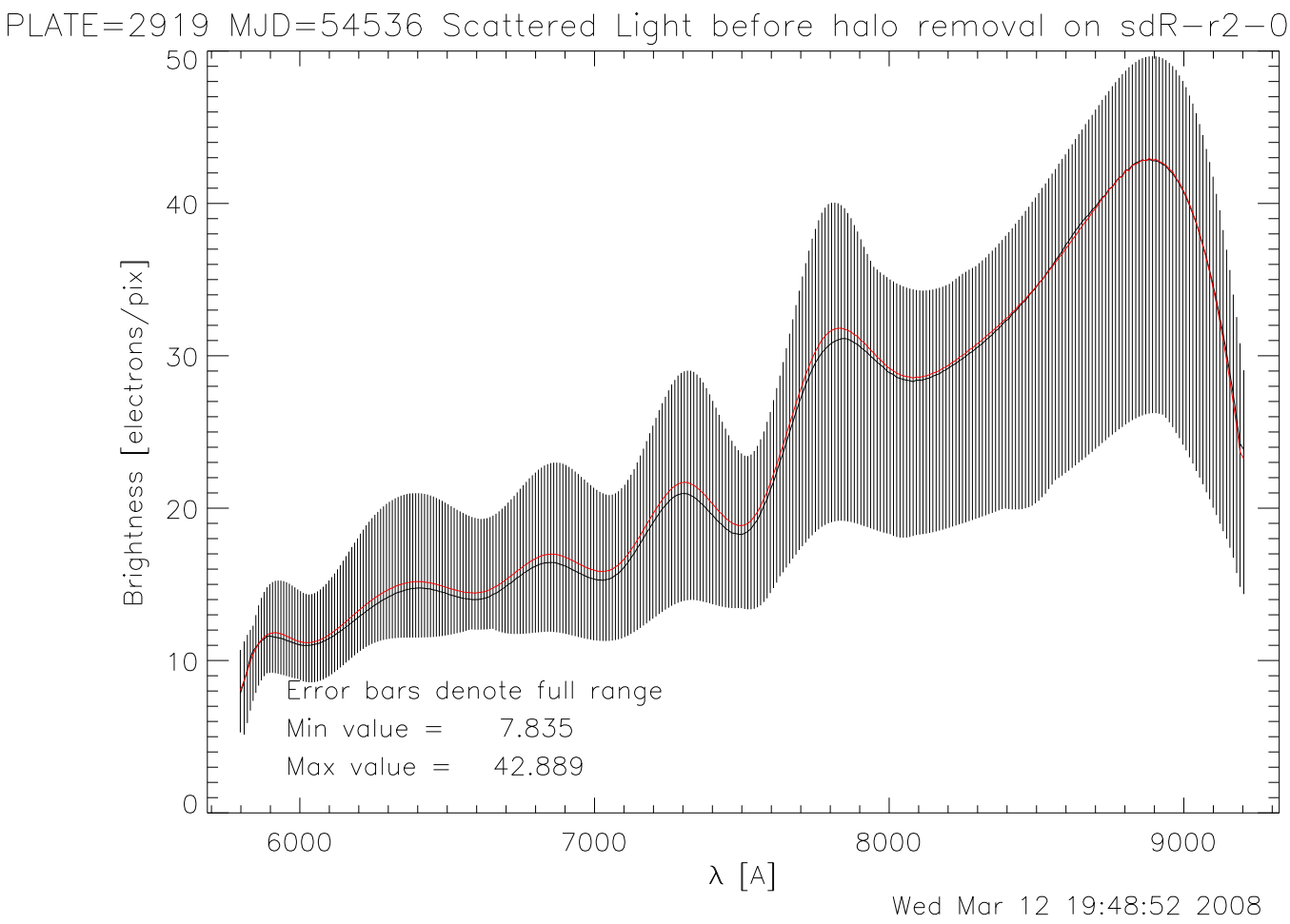

Number of sky fibers = 27
PLATE=2919 MJD=54536 sdR-r2-00050921.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

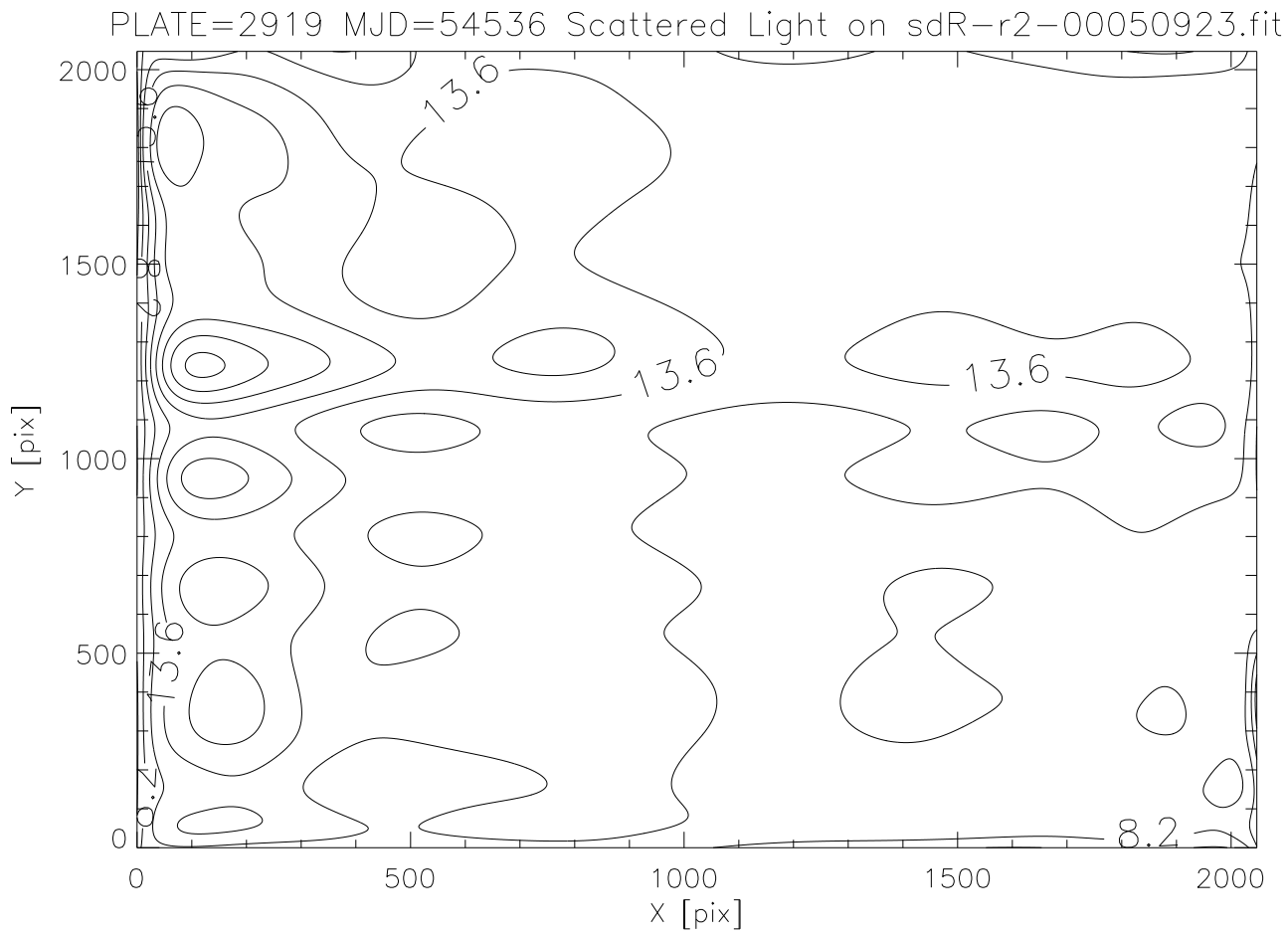

PLATE=2919 MJD=54536 sdR-r2-00050921.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.28 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

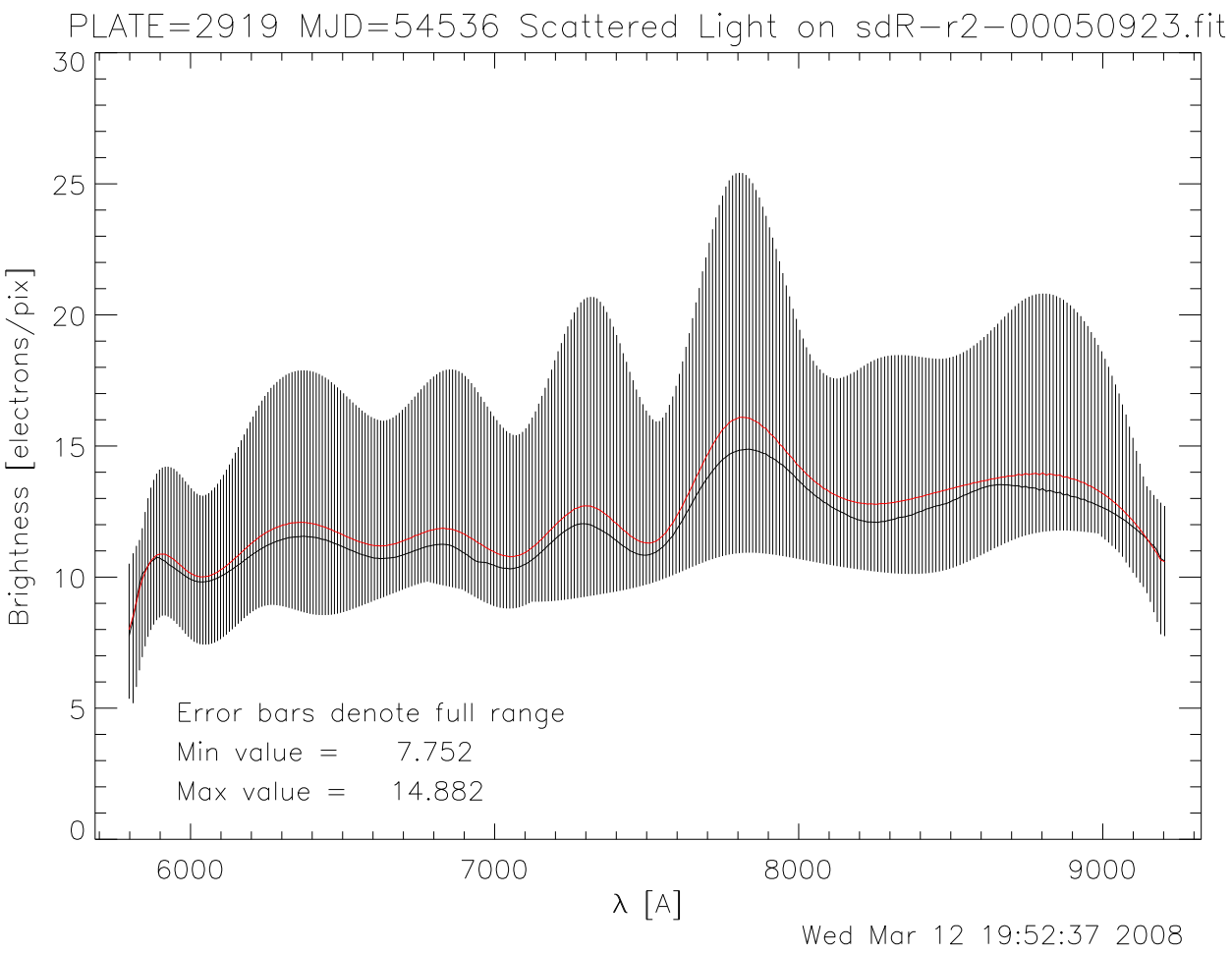

PLATE=2919 MJD=54536 sdR-r2-00050921.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.49 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

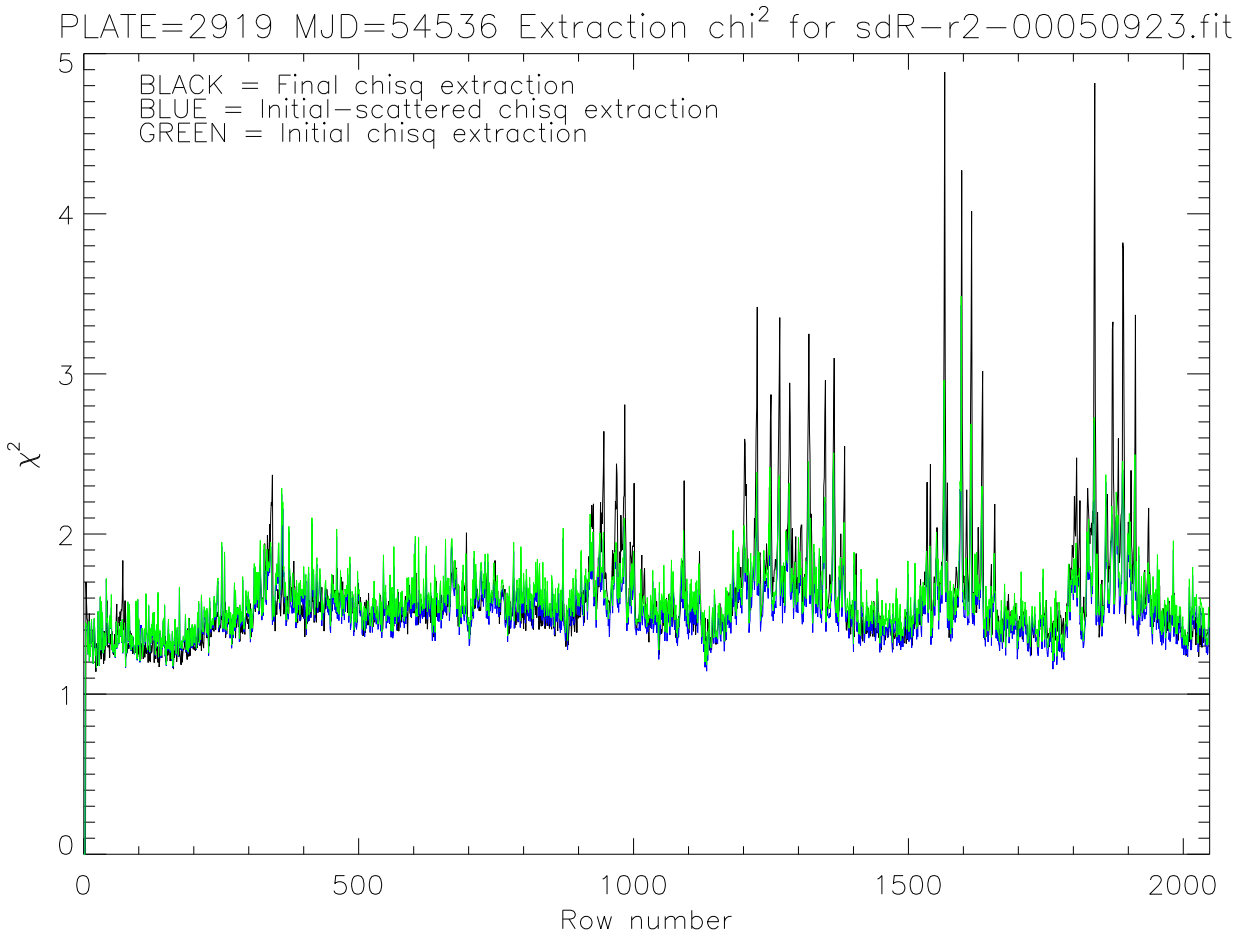

PLATE=2919 MJD=54536 Fiber−Flats for sdR−r2−00050924.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.729
Max value = 1.170
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 19:47:41 2008

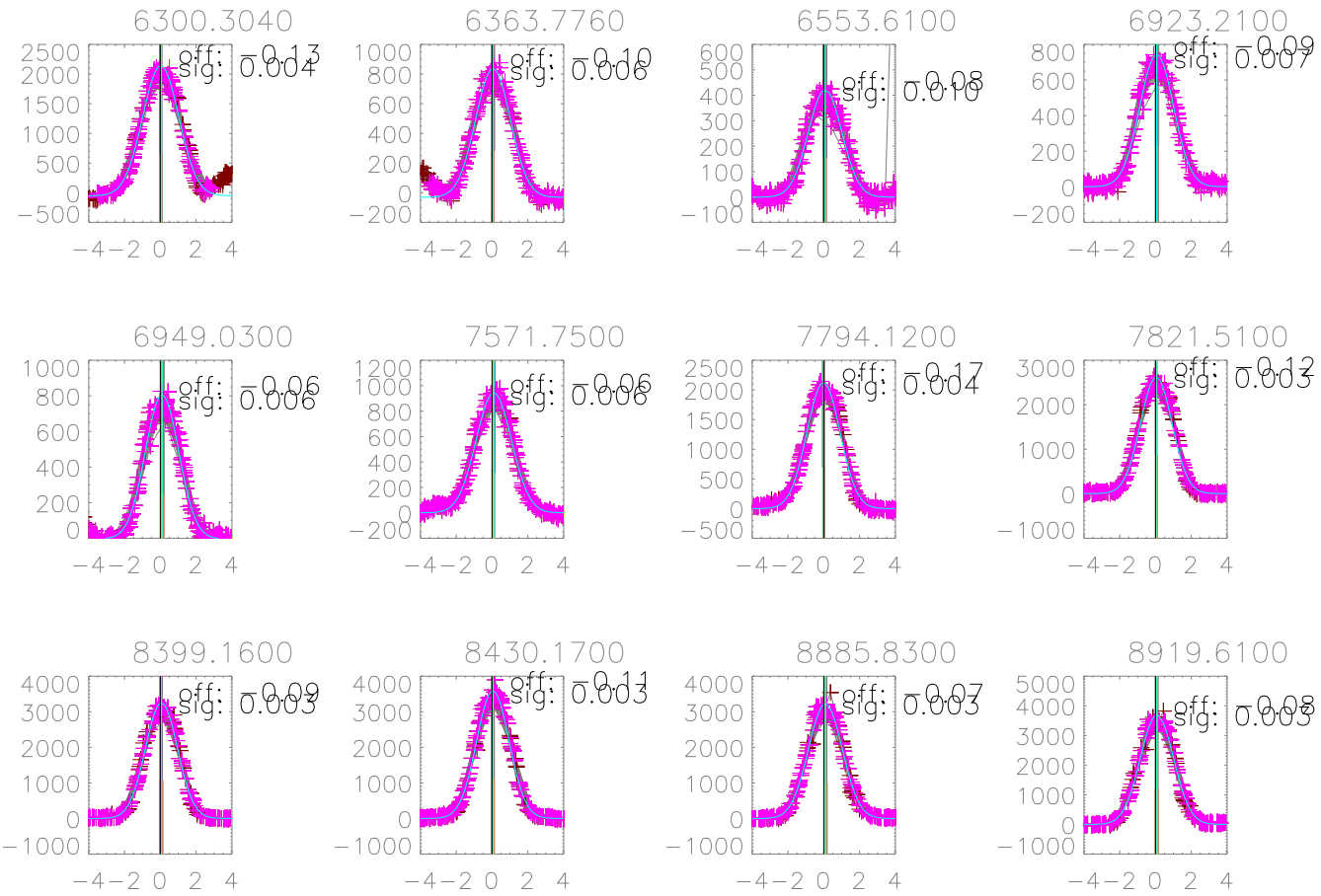

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR-r2-00050923.fi
40.91
31.82
22.73
13.64
0
Y [pix]
X [pix]
0
500
1000
1500
2000

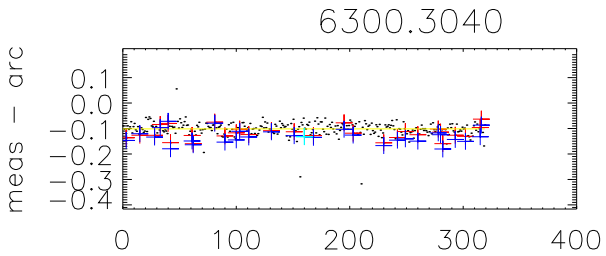

PLATE=2919 MJD=54536 Scattered Light before halo removal on sdR-r2-00050923.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.835
Max value = 42.889
Wed Mar 12 19:48:52 2008

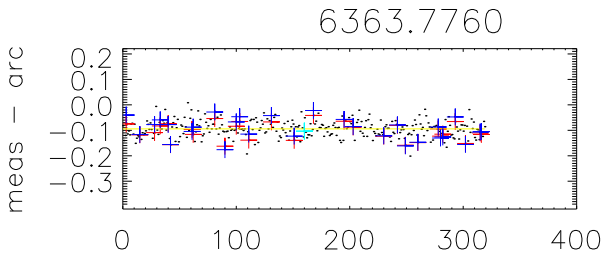

PLATE=2919 MJD=54536 Scattered Light on sdR-r2-00050923.fit
13.6
13.6
13.6
13.6
8.2
Y [pix]
X [pix]
0
500
1000
1500
2000

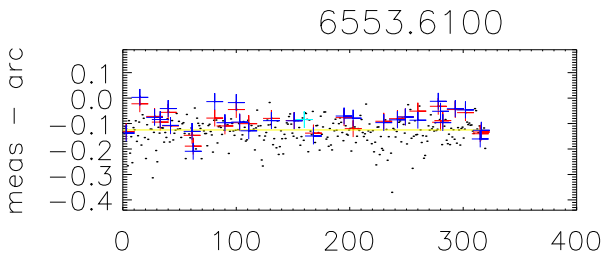

PLATE=2919 MJD=54536 Scattered Light on sdR-r2-00050923.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.752
Max value = 14.882
Wed Mar 12 19:52:37 2008

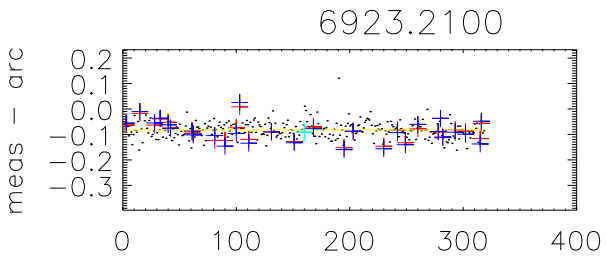

PLATE=2919 MJD=54536 Extraction chi^2 for sdR−r2−00050923.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

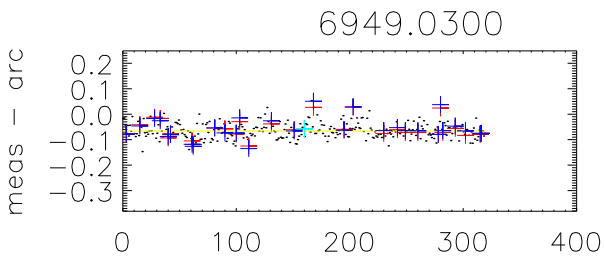

6300.3040
off: −0.13
sig: 0.004
6363.7760
off: −0.10
sig: 0.006
6553.6100
off: −0.08
sig: 0.010
6923.2100
off: −0.09
sig: 0.007
6949.0300
off: −0.06
sig: 0.006
7571.7500
off: −0.06
sig: 0.006
7794.1200
off: −0.17
sig: 0.004
7821.5100
off: −0.12
sig: 0.003
8399.1600
off: −0.09
sig: 0.003
8430.1700
off: −0.11
sig: 0.003
8885.8300
off: −0.07
sig: 0.003
8919.6100
off: −0.08
sig: 0.003

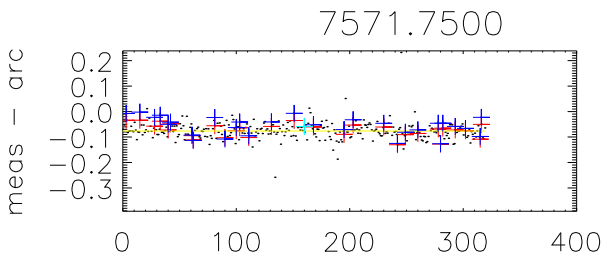

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

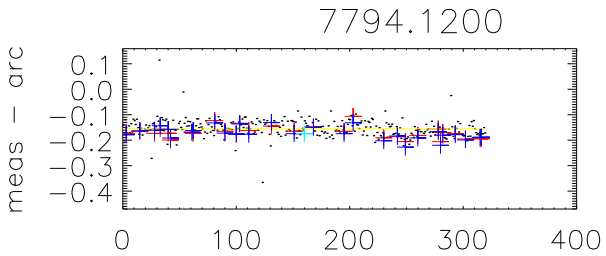

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

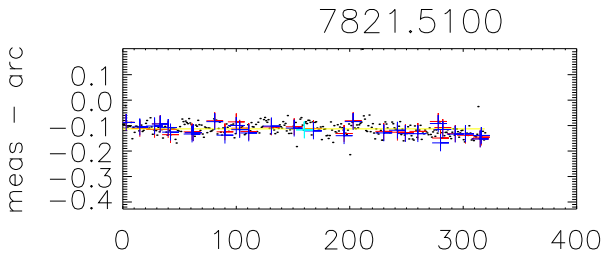

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

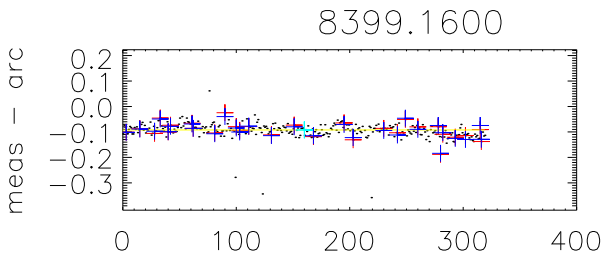

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

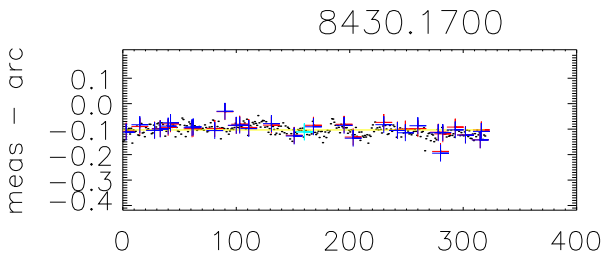

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

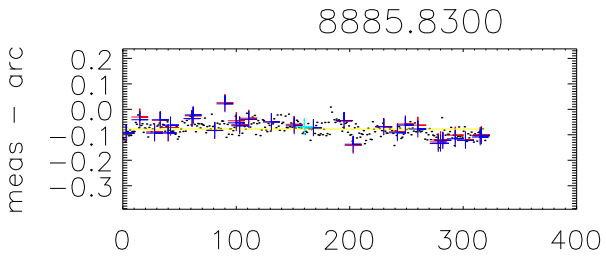

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

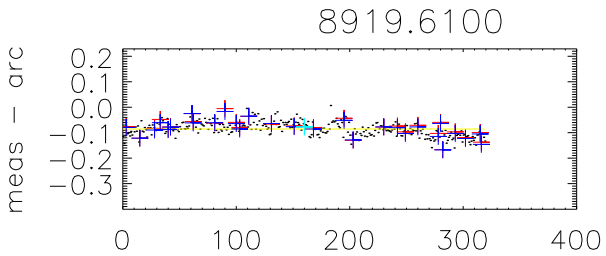

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

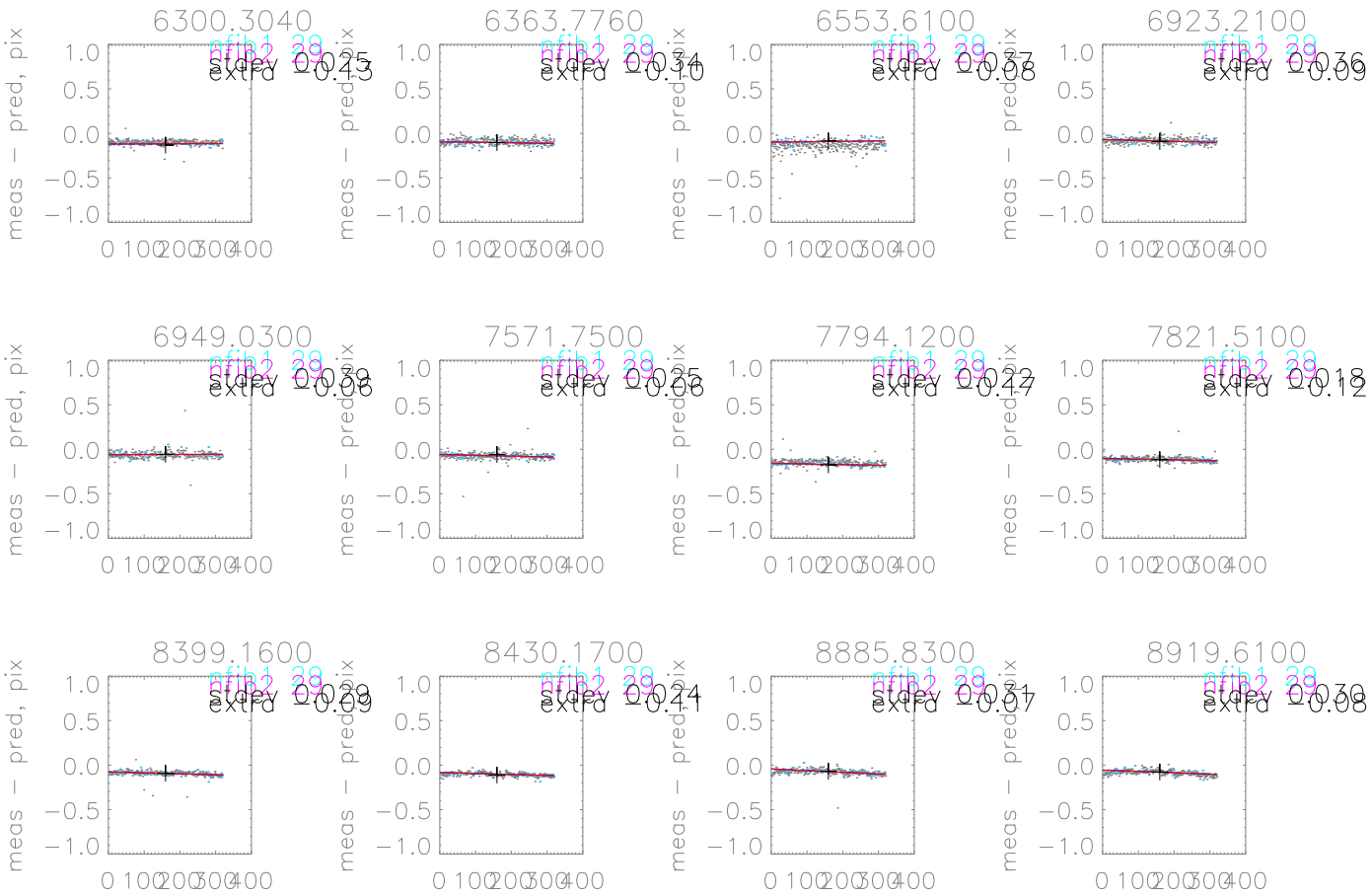

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

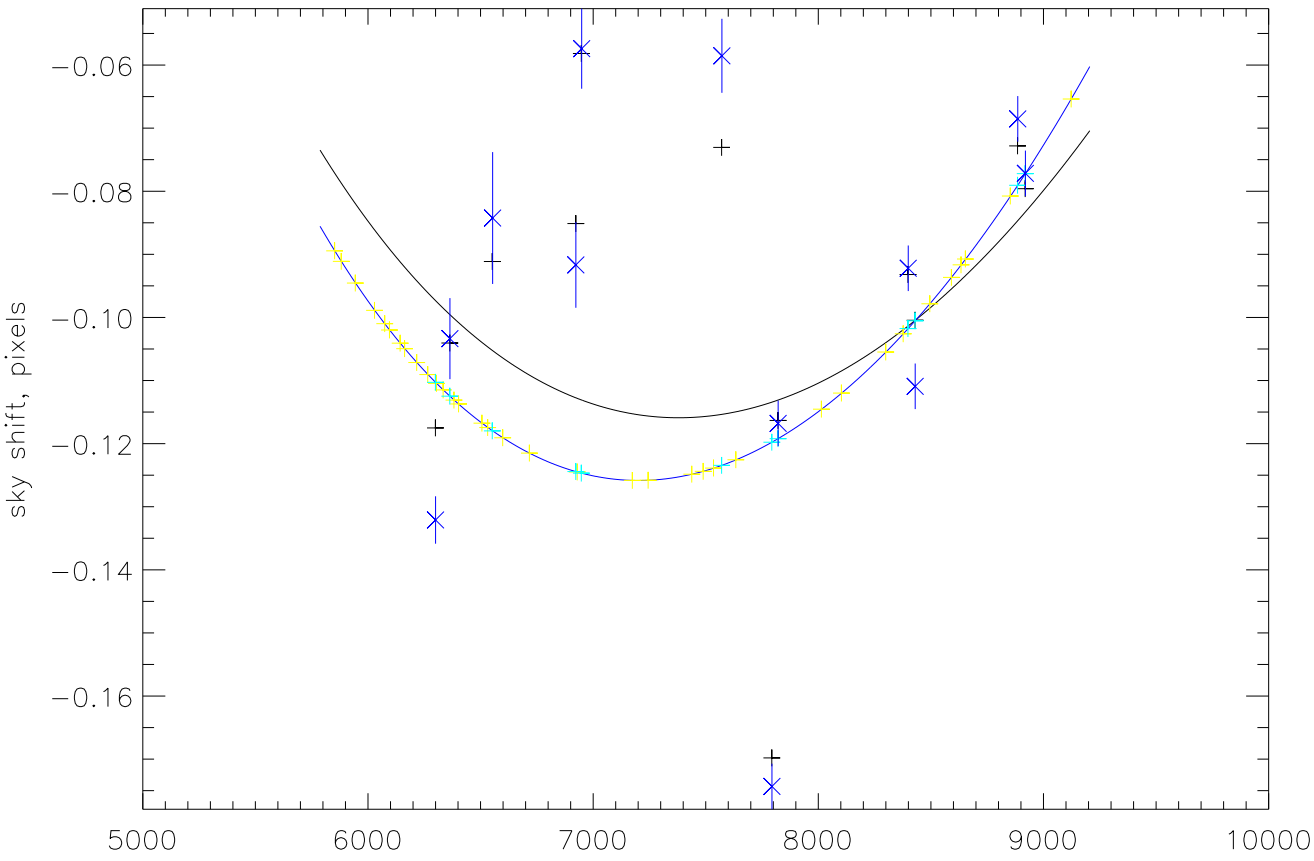

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

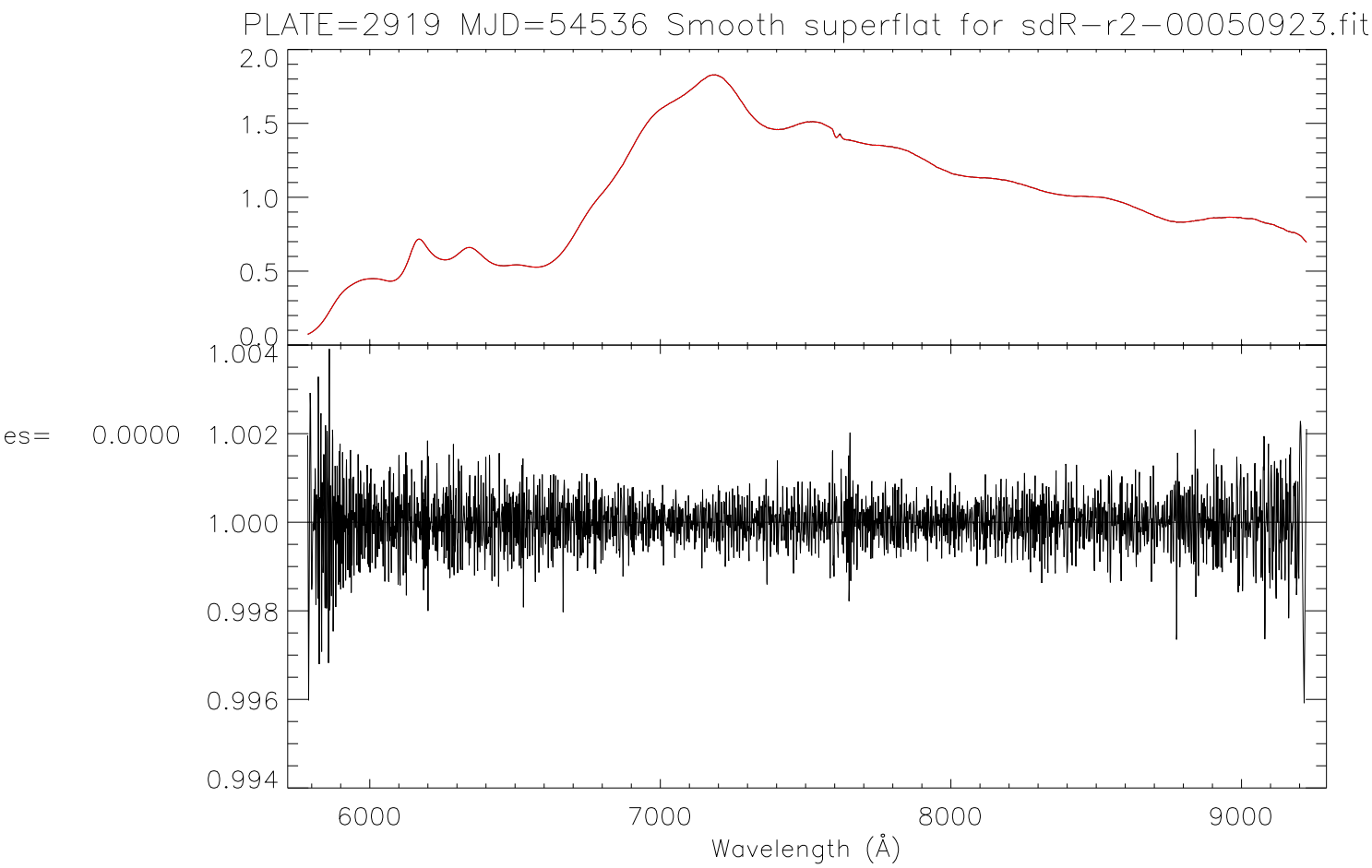

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

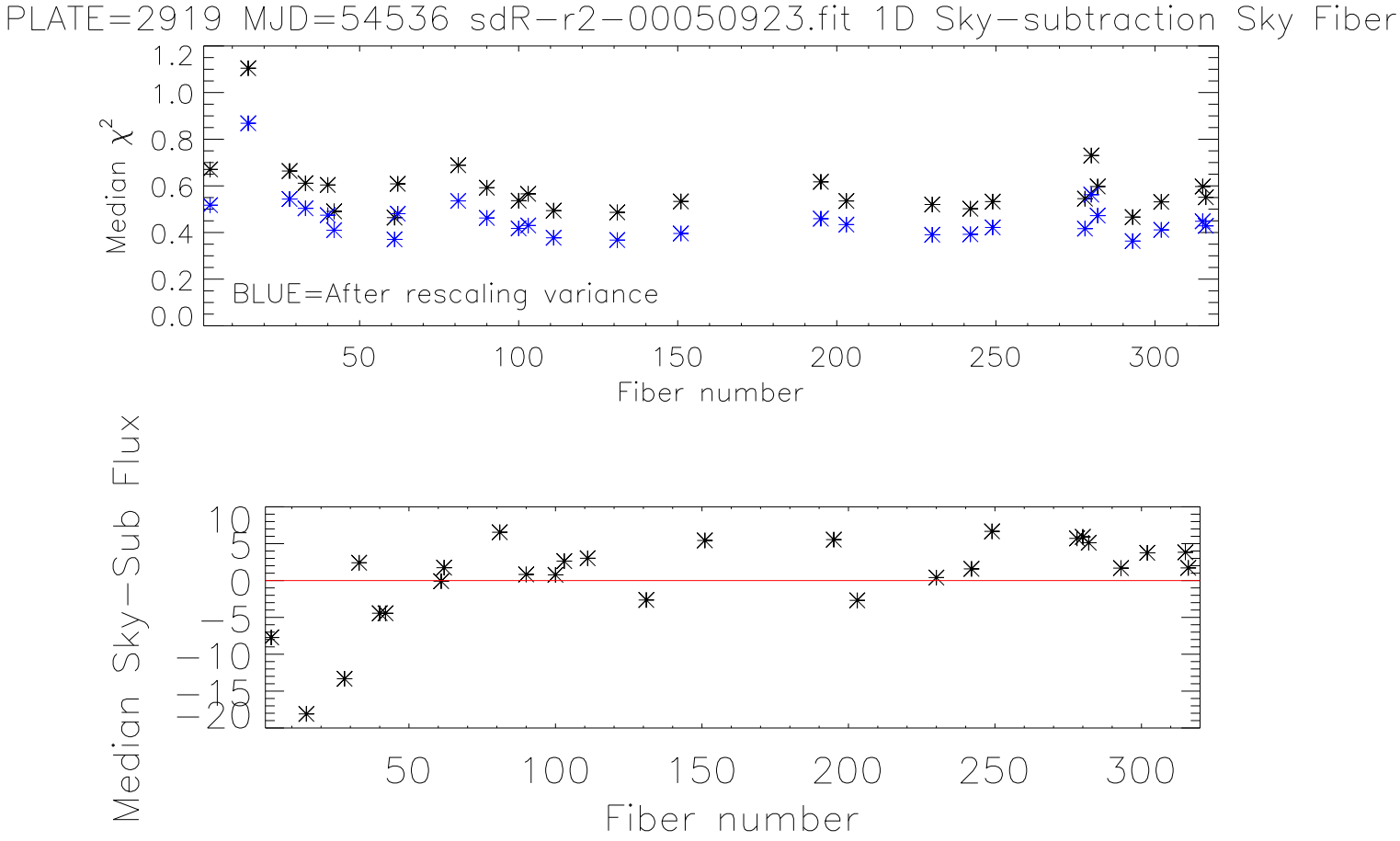

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

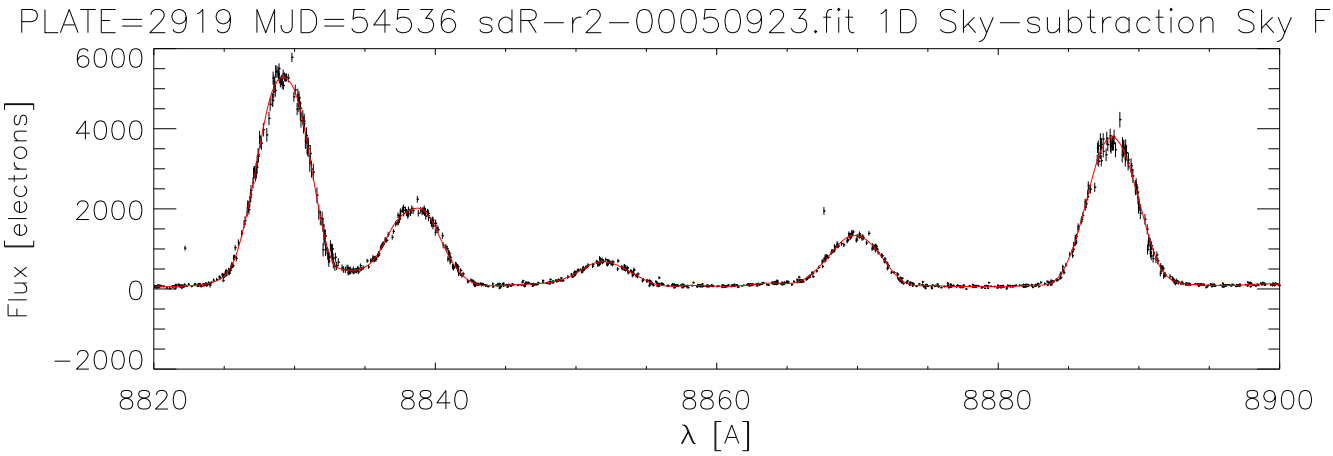

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhb1 28
mfhb2 28
stdev 0.025
extrd 0.43
stdev 0.034
extrd 0.10
stdev 0.037
extrd 0.08
stdev 0.036
extrd 0.09
stdev 0.039
extrd 0.08
stdev 0.025
extrd 0.08
stdev 0.022
extrd 0.47
stdev 0.018
extrd 0.12
stdev 0.029
extrd 0.09
stdev 0.024
extrd 0.41
stdev 0.031
extrd 0.07
stdev 0.030
extrd 0.08

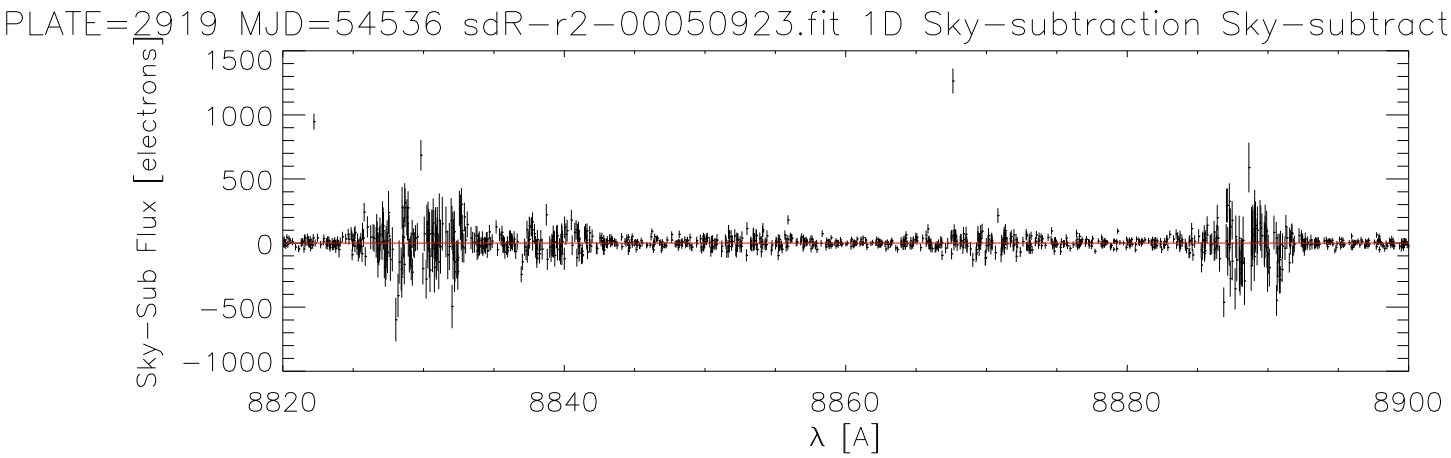

−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
sky shift, pixels
5000
6000
7000
8000
9000
10000

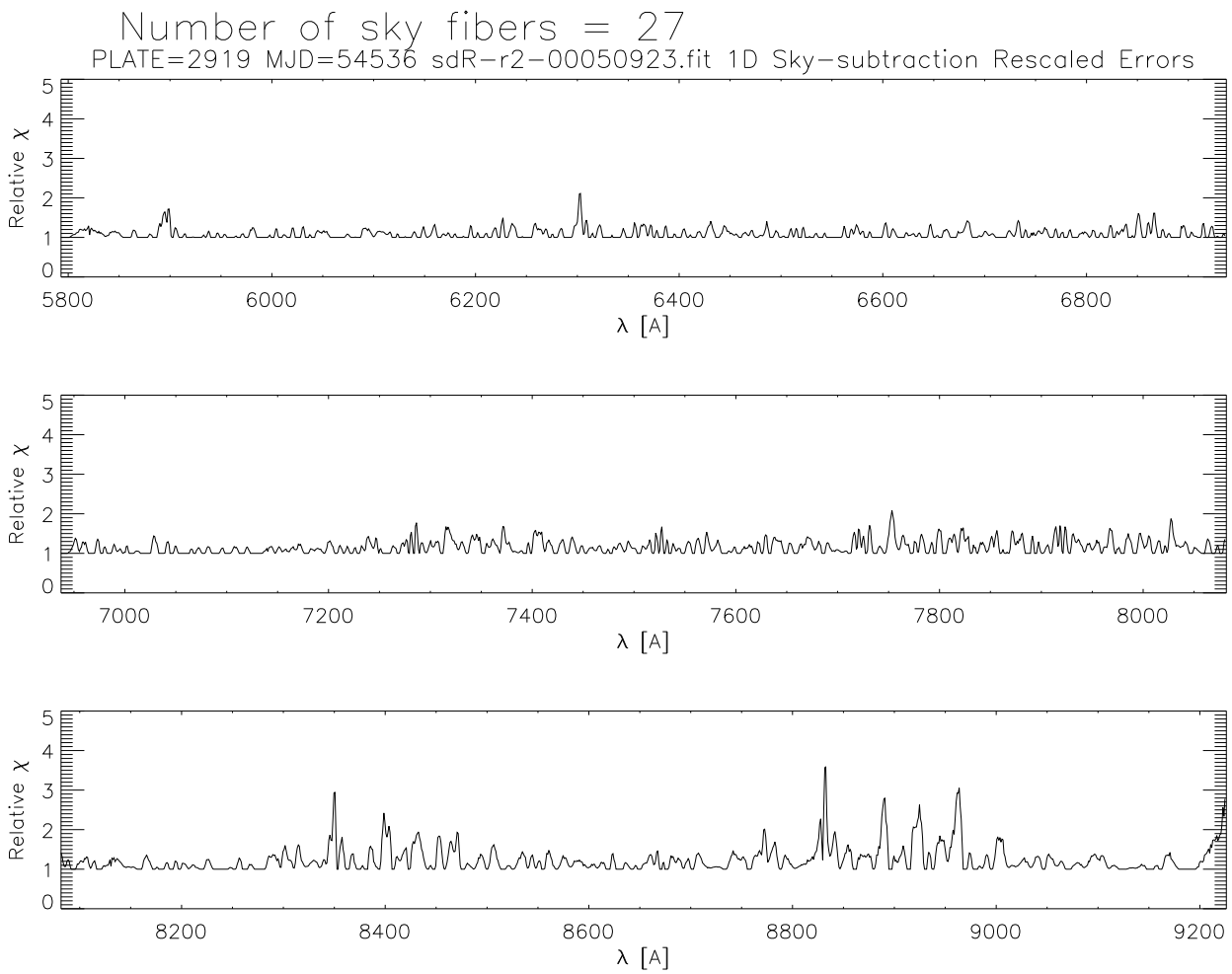

PLATE=2919 MJD=54536 Smooth superflat for sdR-r2-00050923.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

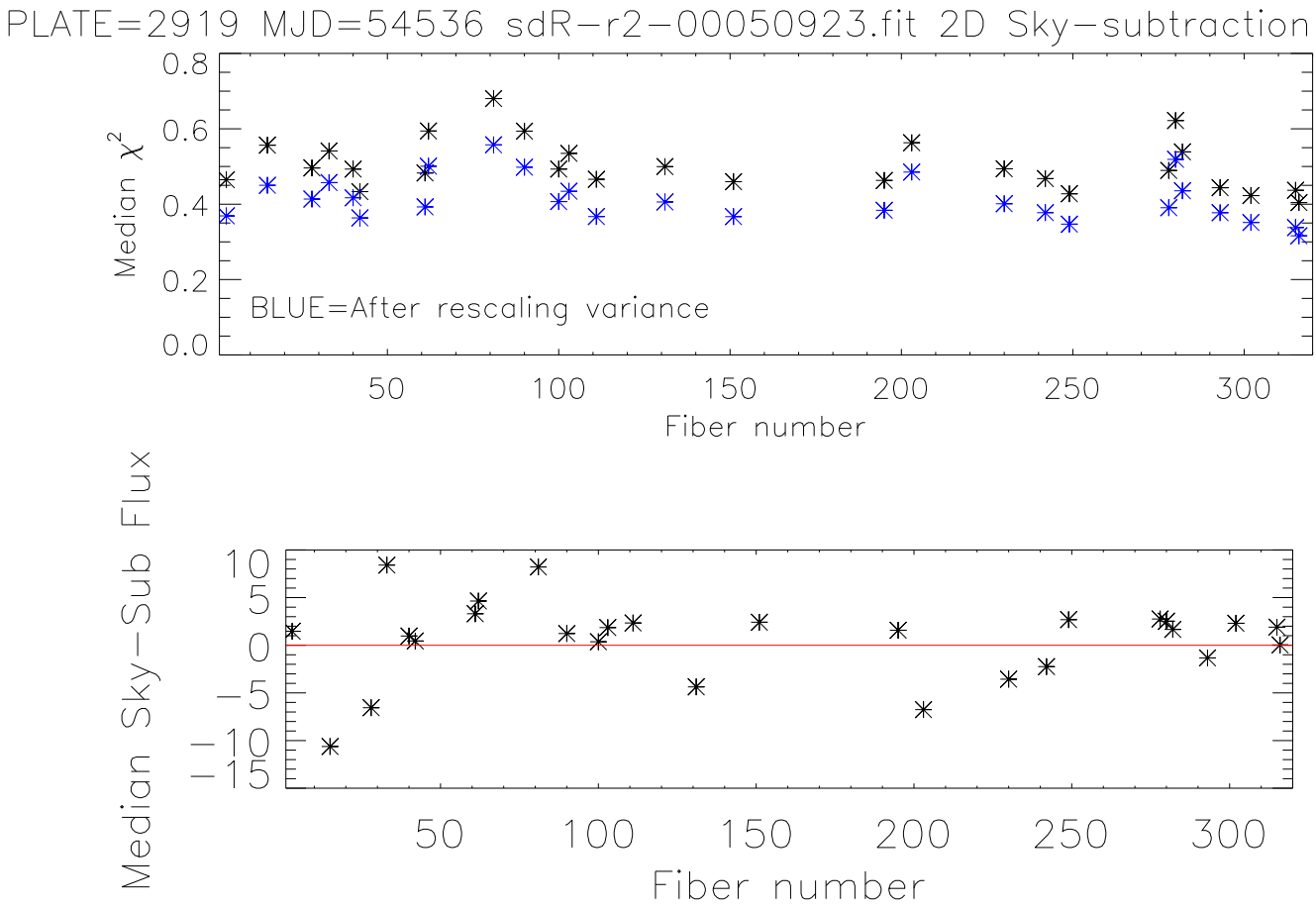
es= 0.0000

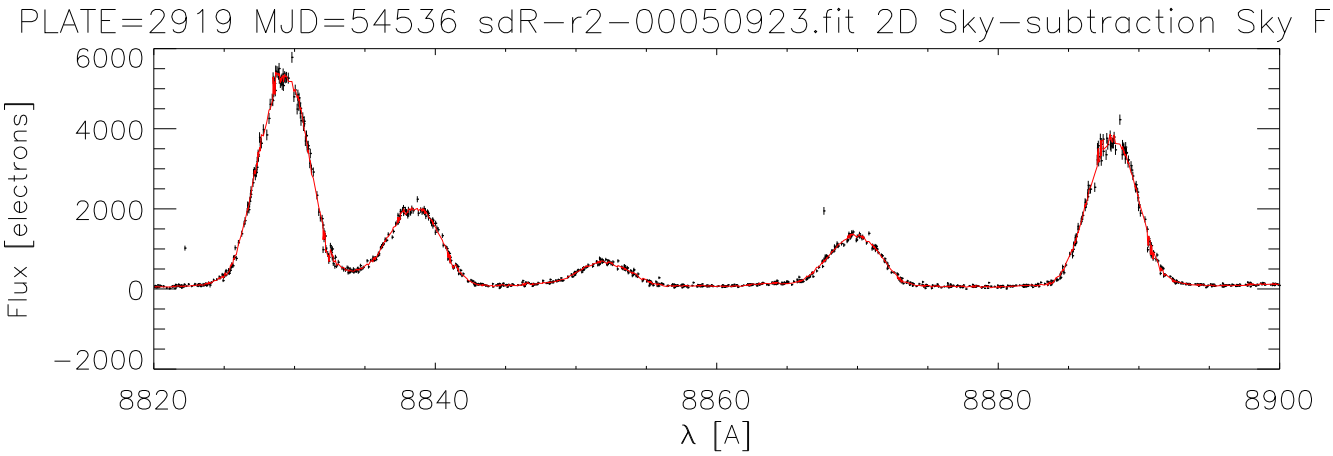

PLATE=2919 MJD=54536 sdR-r2-00050923.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

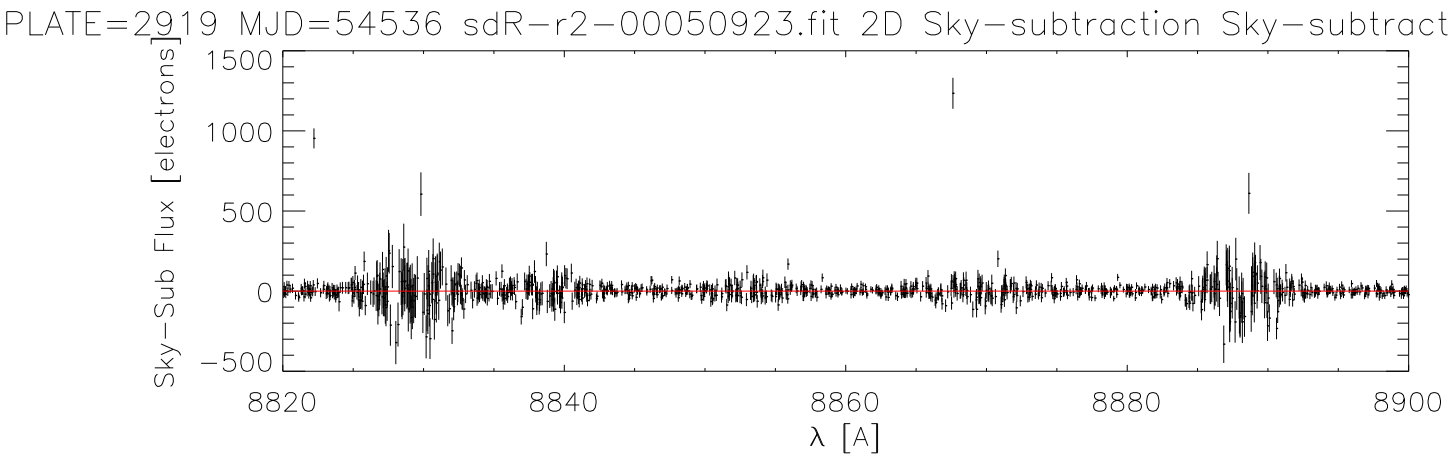

PLATE=2919 MJD=54536 sdR-r2-00050923.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

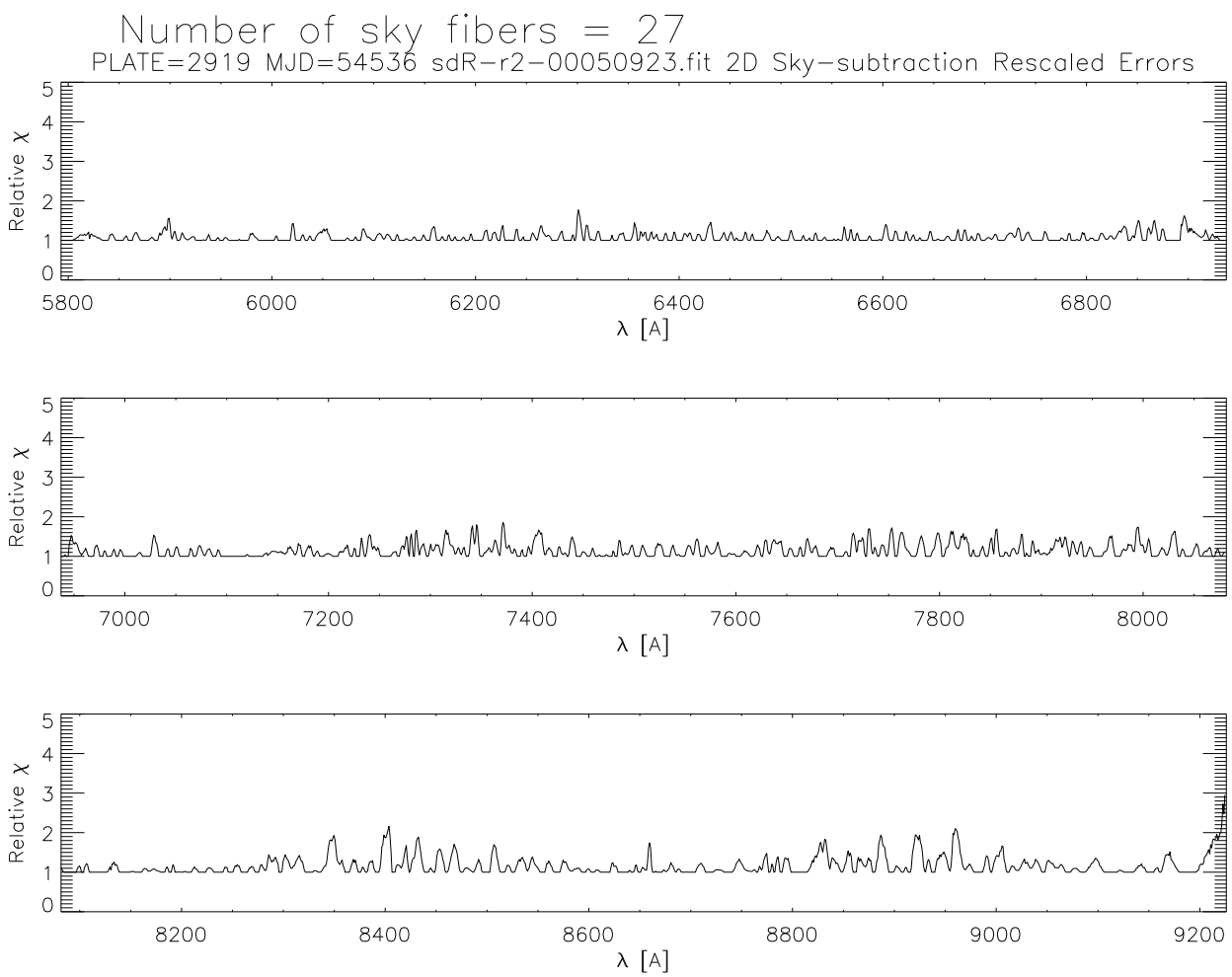

PLATE=2919 MJD=54536 sdR-r2-00050923.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
8820
8840
8860
8880
8900
λ [A]

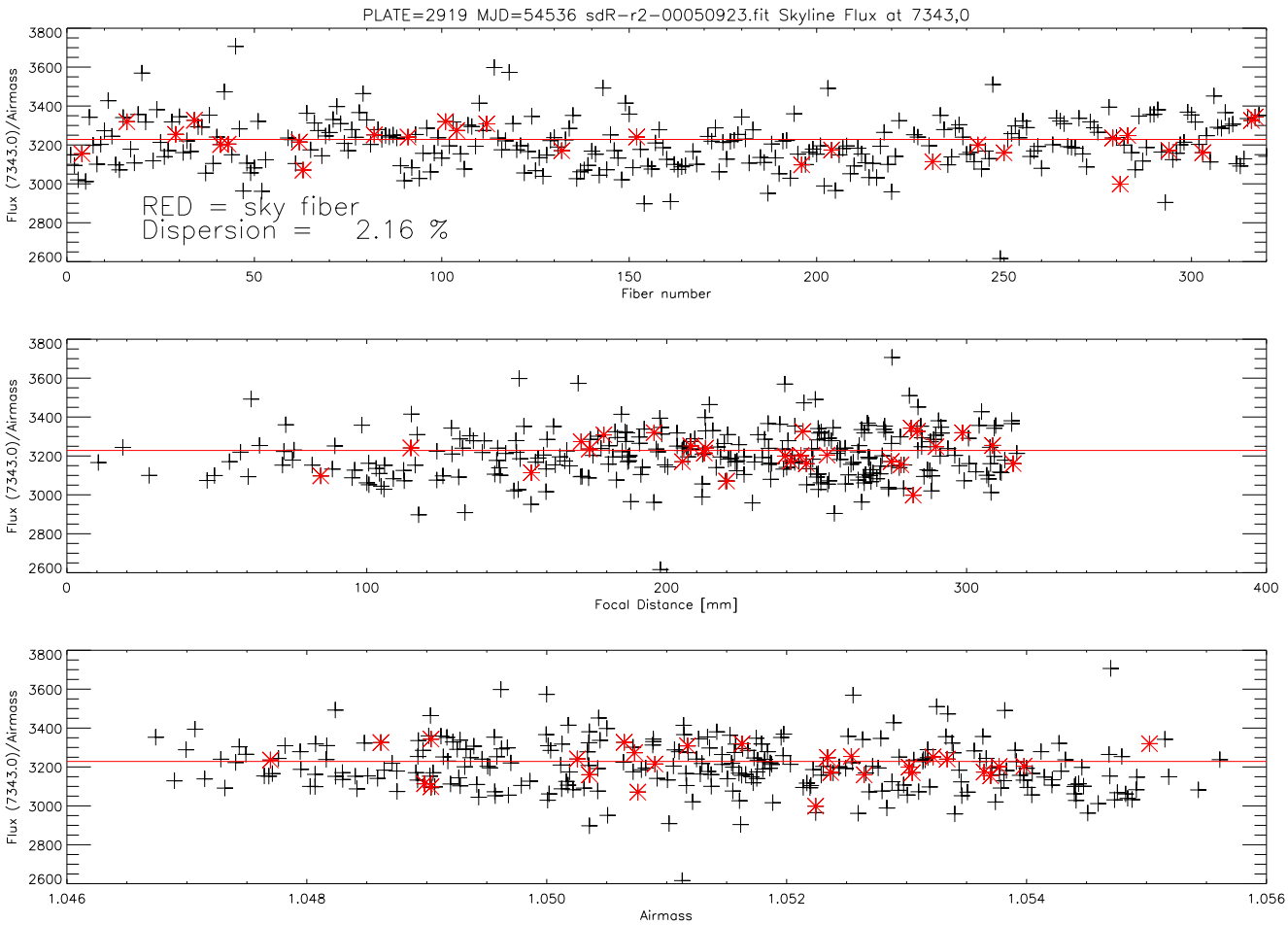

Number of sky fibers = 27
PLATE=2919 MJD=54536 sdR-r2-00050923.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

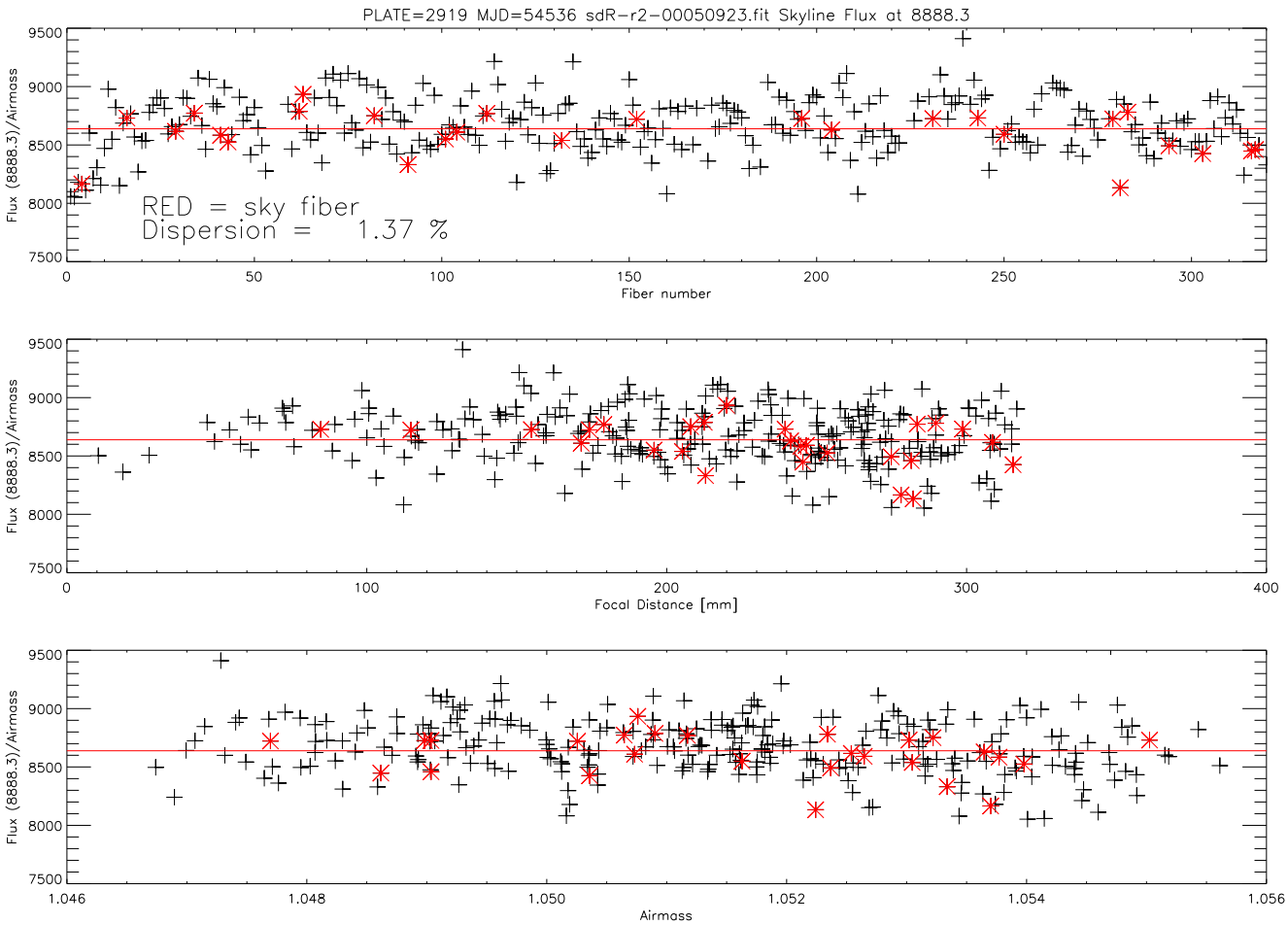

PLATE=2919 MJD=54536 sdR-r2-00050923.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number


PLATE=2919 MJD=54536 sdR-r2-00050923.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]


PLATE=2919 MJD=54536 sdR-r2-00050923.fit 2D 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 = 27
PLATE=2919 MJD=54536 sdR-r2-00050923.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=2919 MJD=54536 sdR-r2-00050923.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.16 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2919 MJD=54536 sdR-r2-00050923.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.37 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass