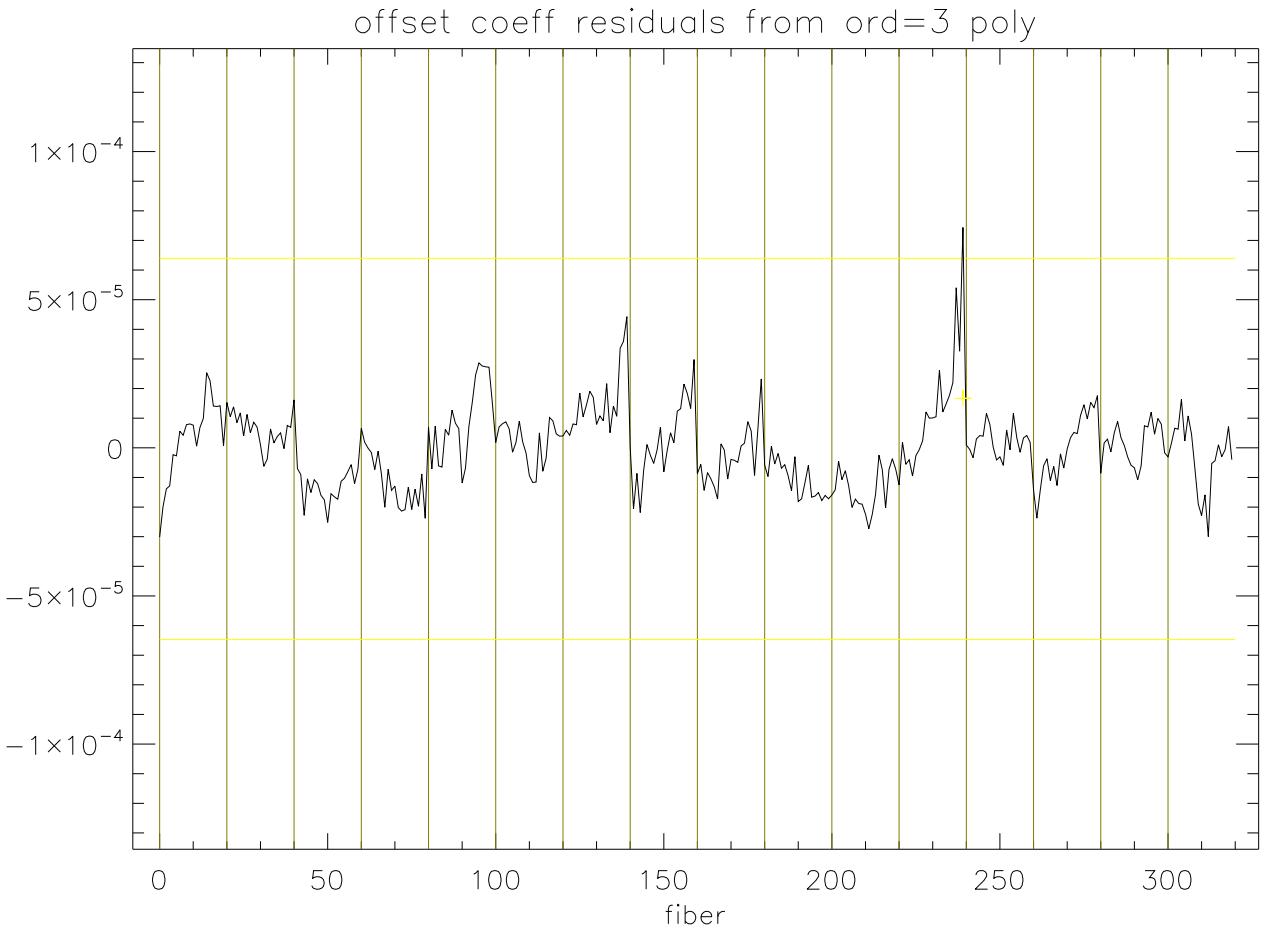
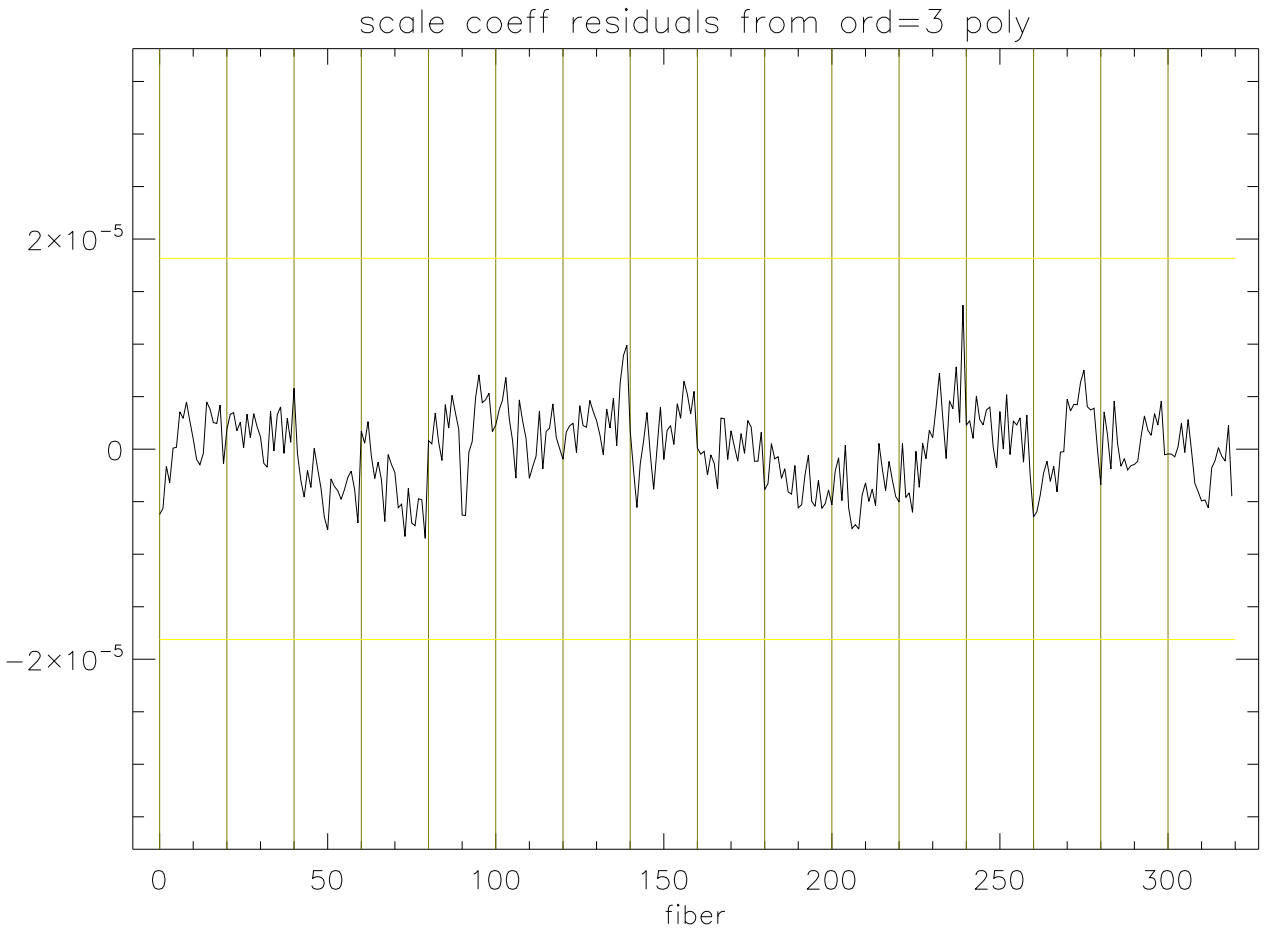
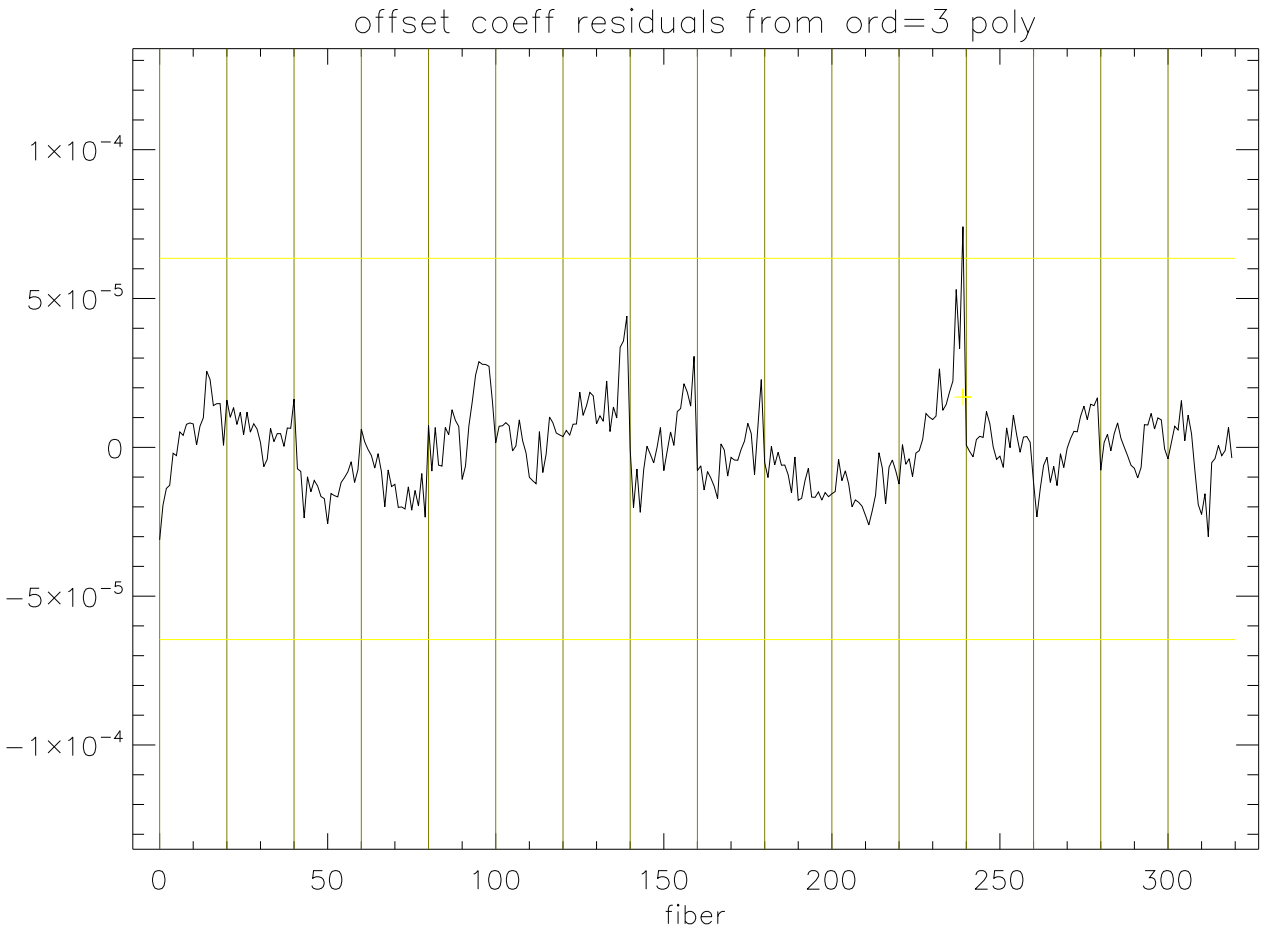
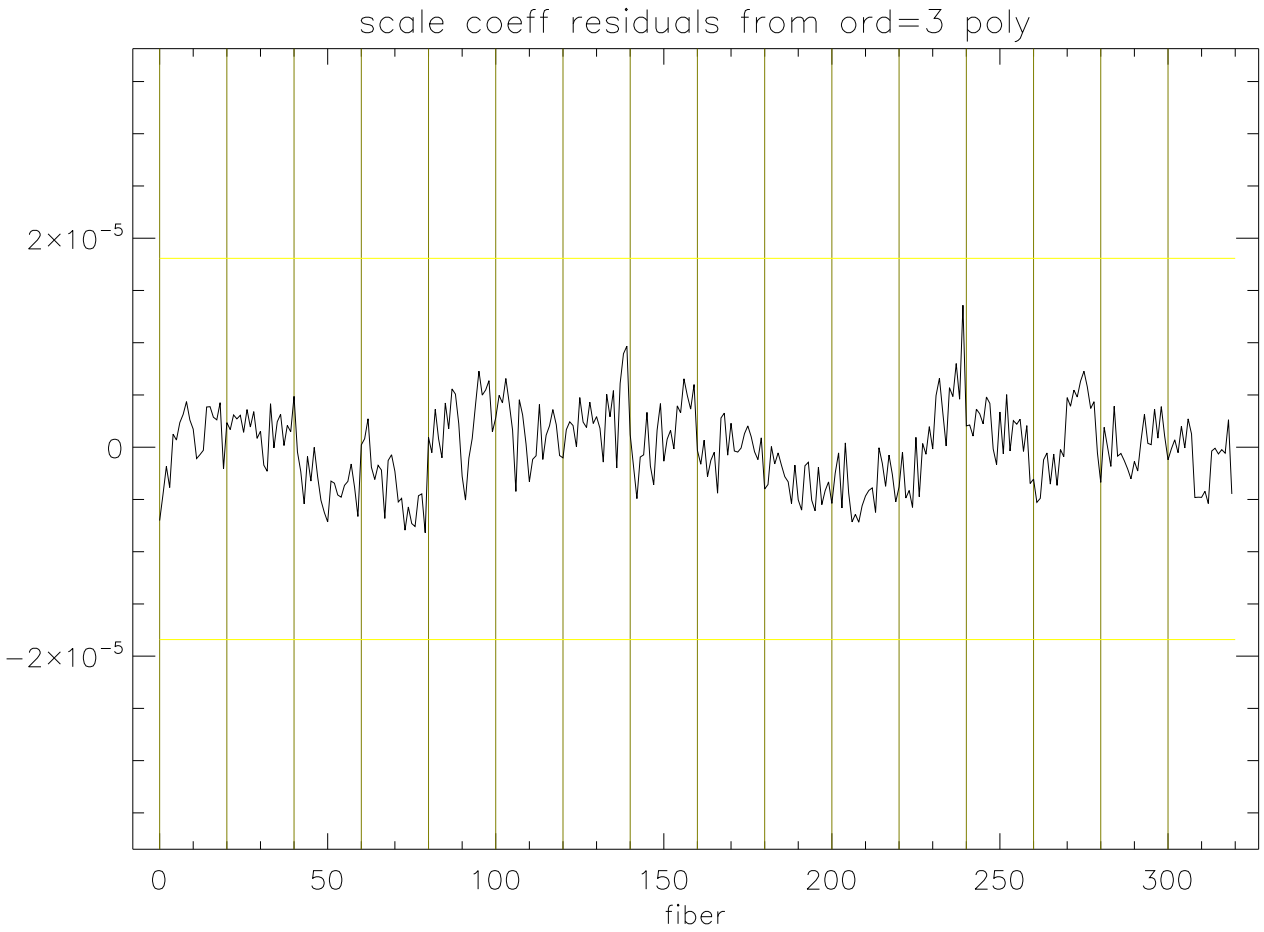
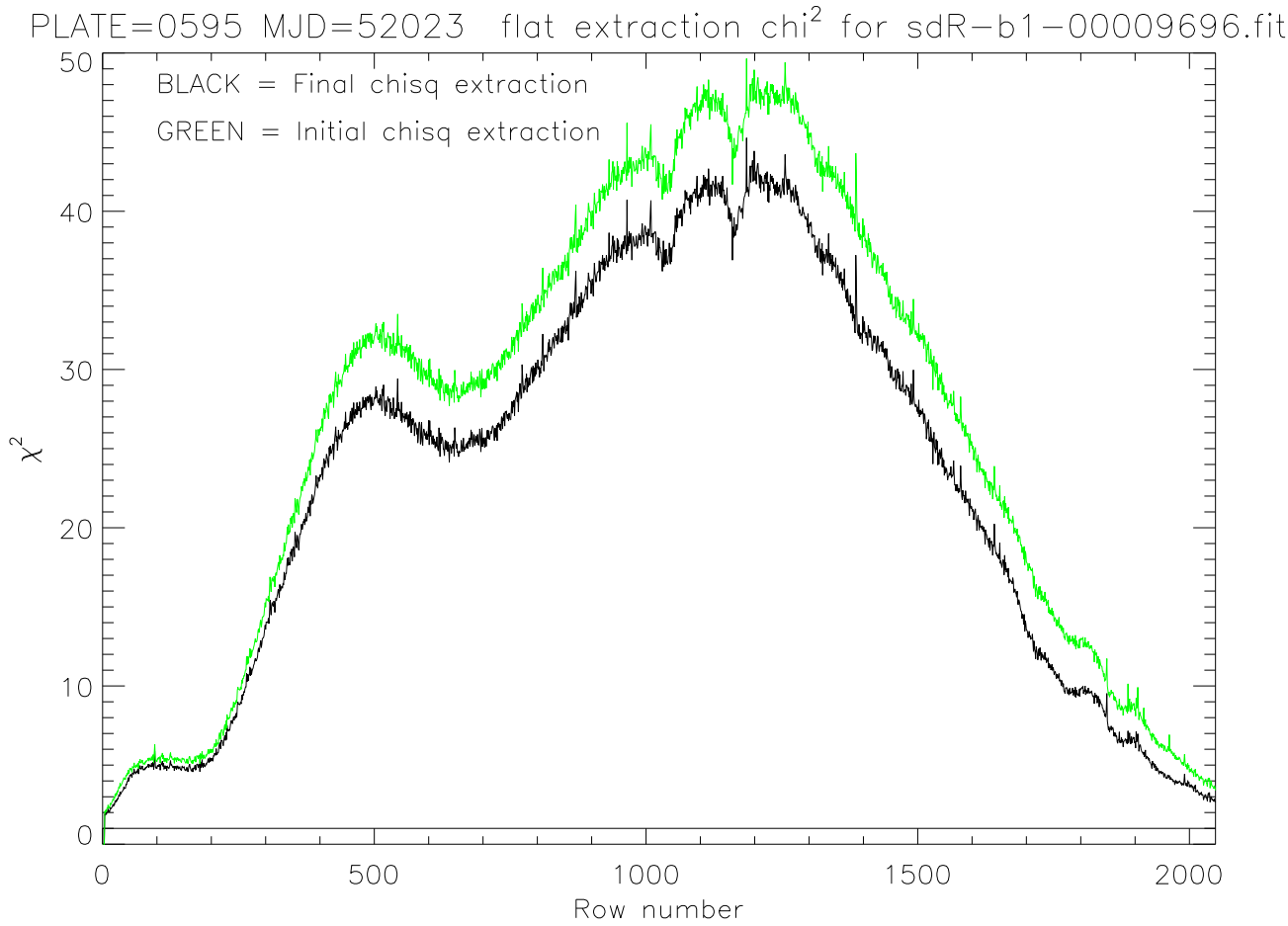
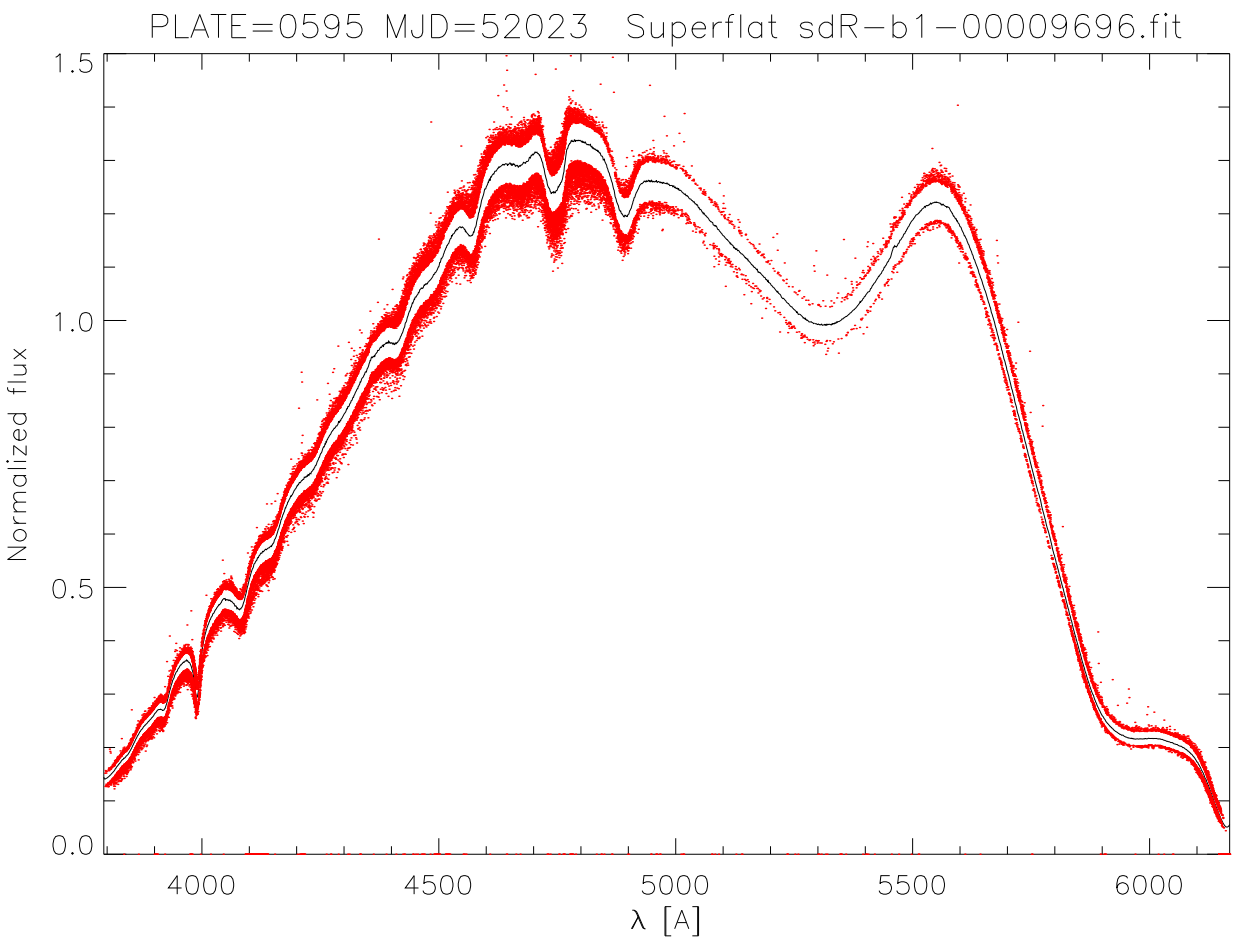

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

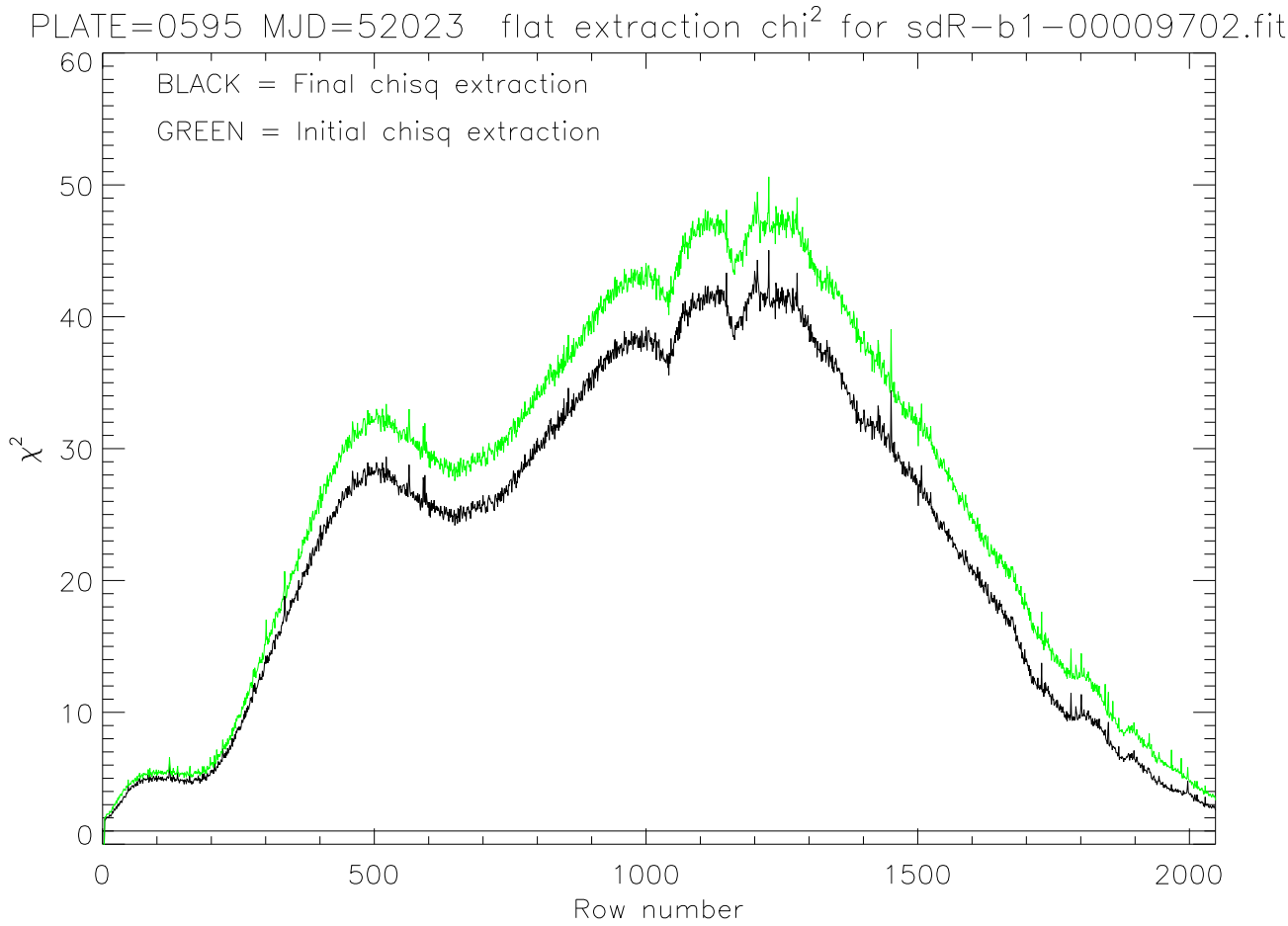

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
0
50
100
150
200
250
300
fiber

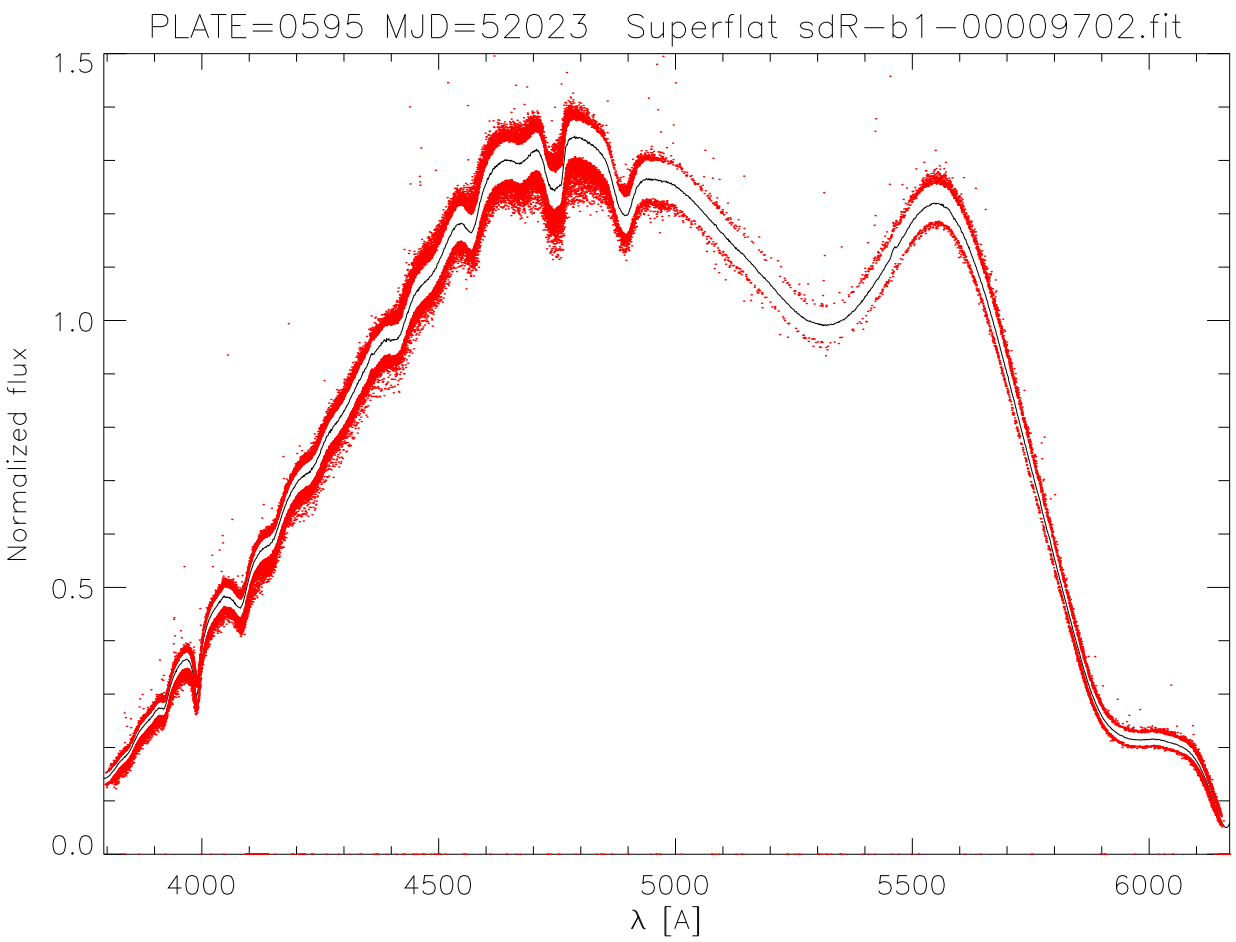

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

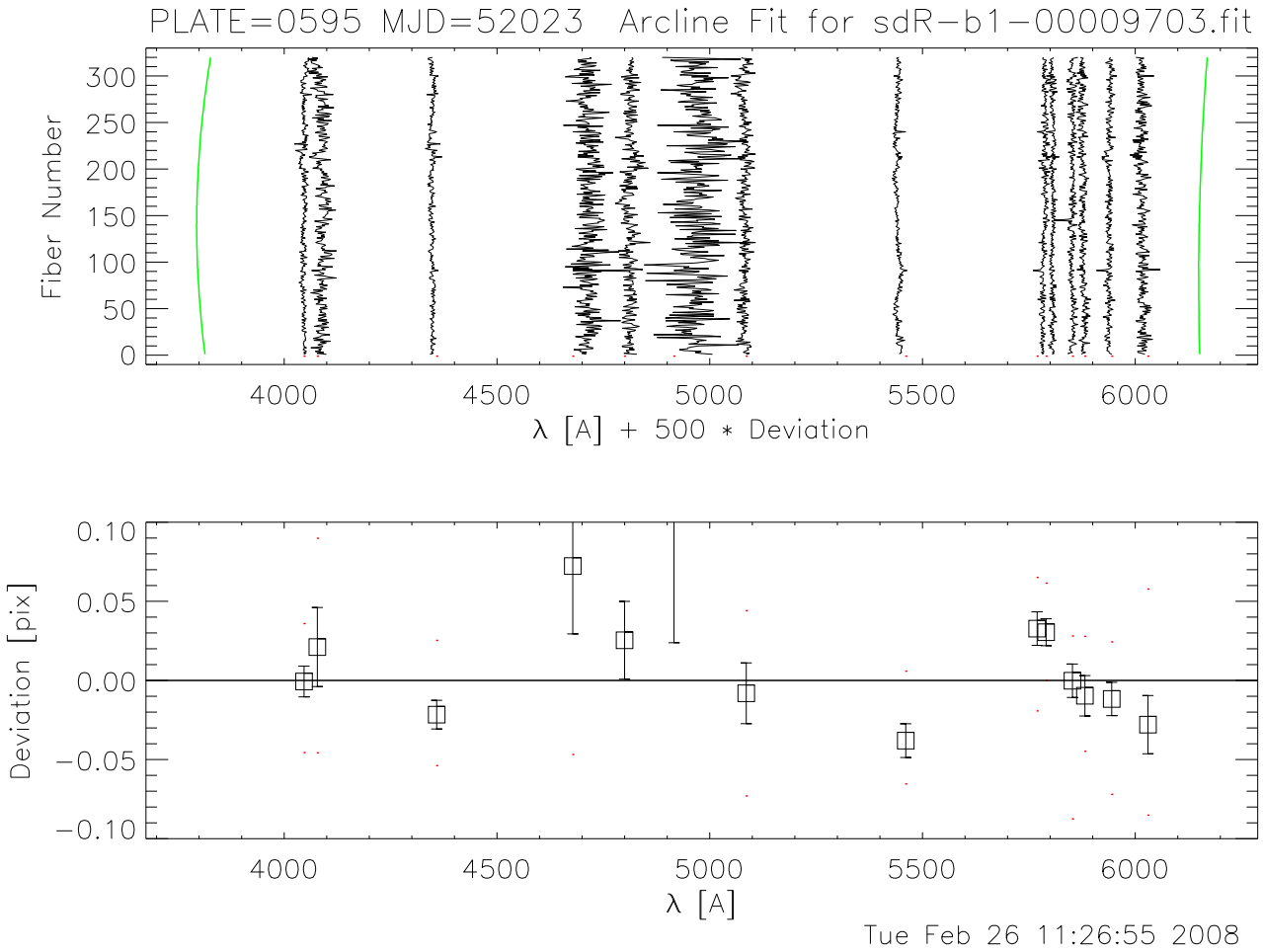

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
0
50
100
150
200
250
300
fiber

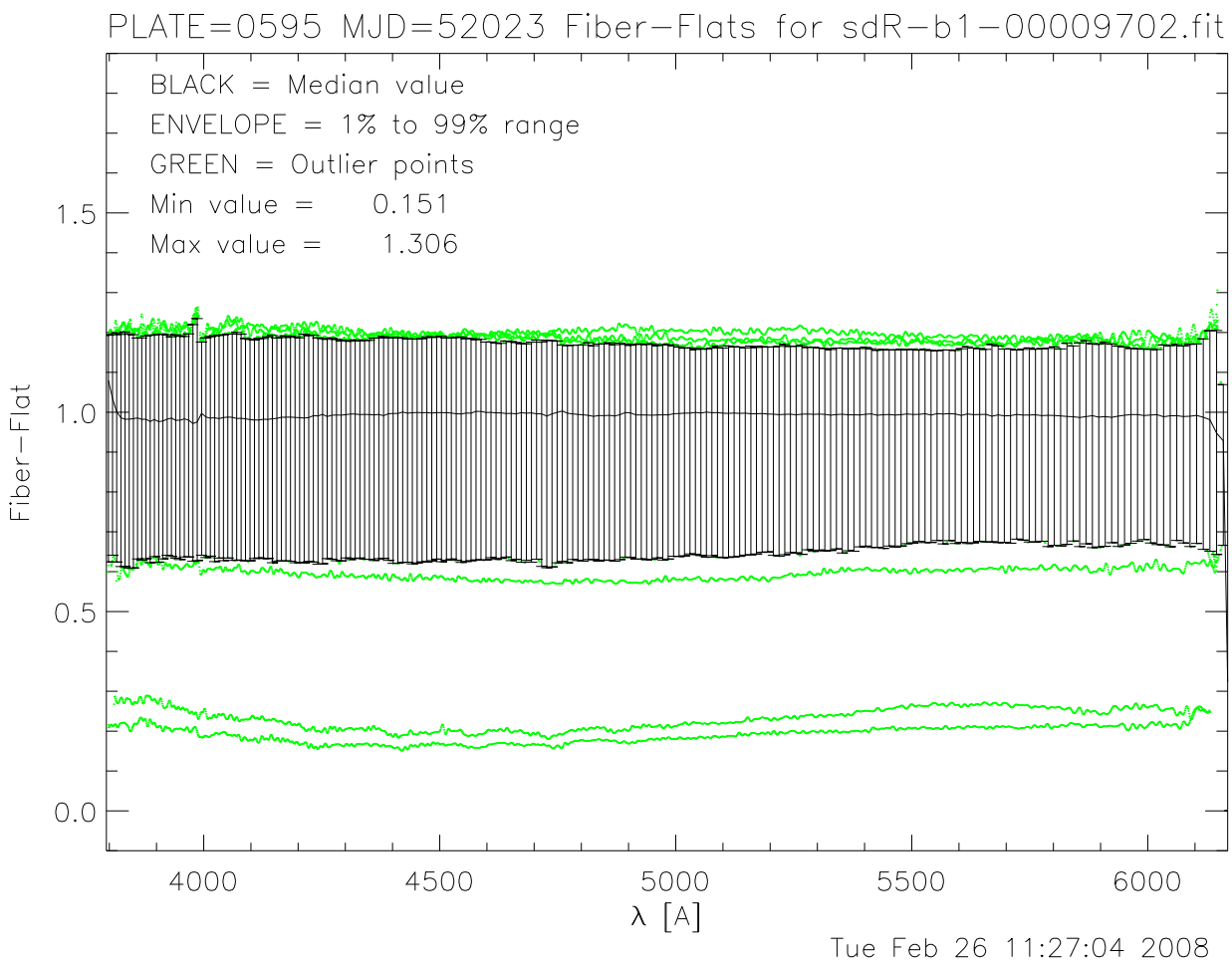

PLATE=0595 MJD=52023 flat extraction chi^2 for sdR−b1−00009696.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
10
20
30
40
50
0
500
1000
1500
2000

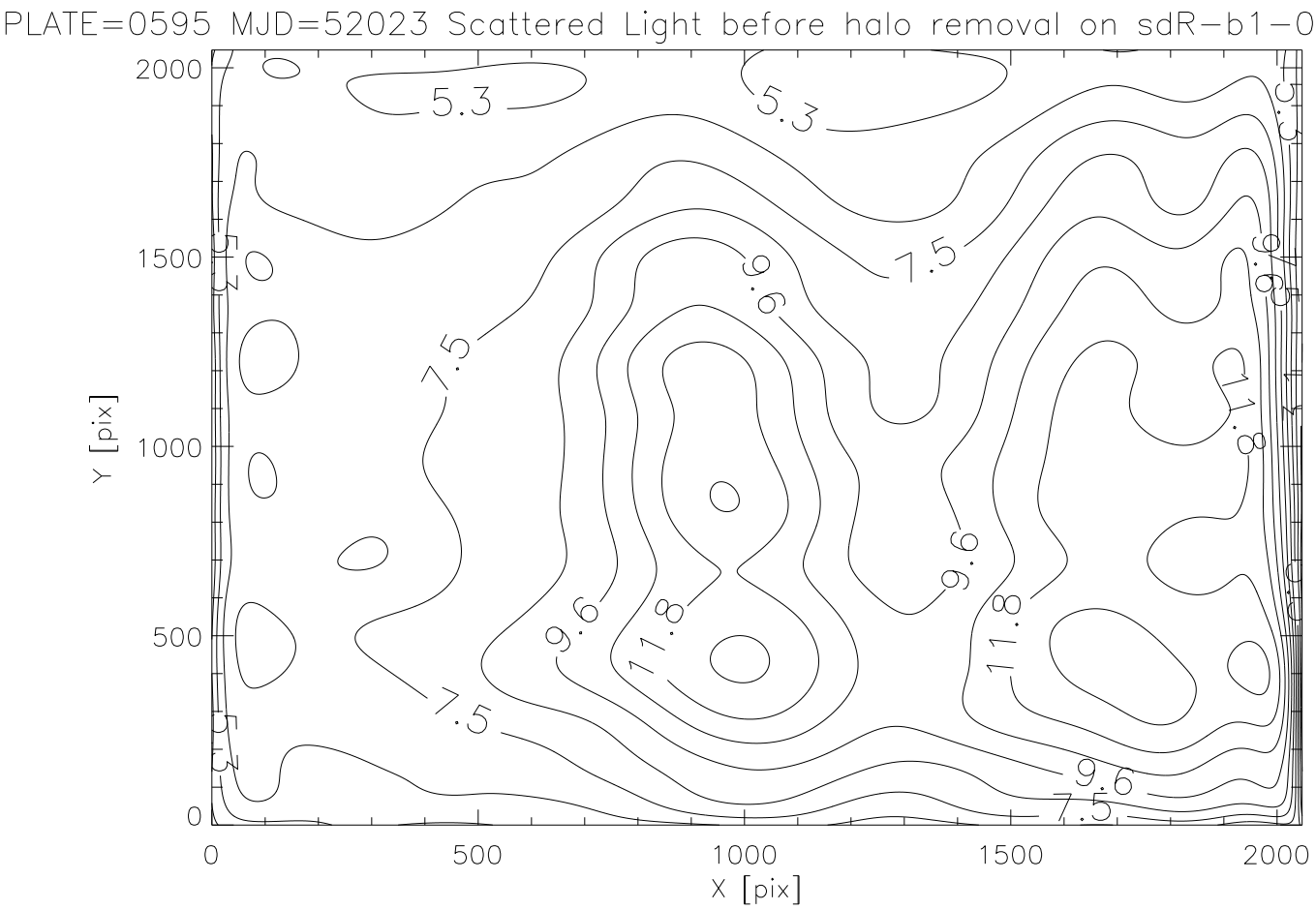

PLATE=0595 MJD=52023 Superflat sdR-b1-00009696.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

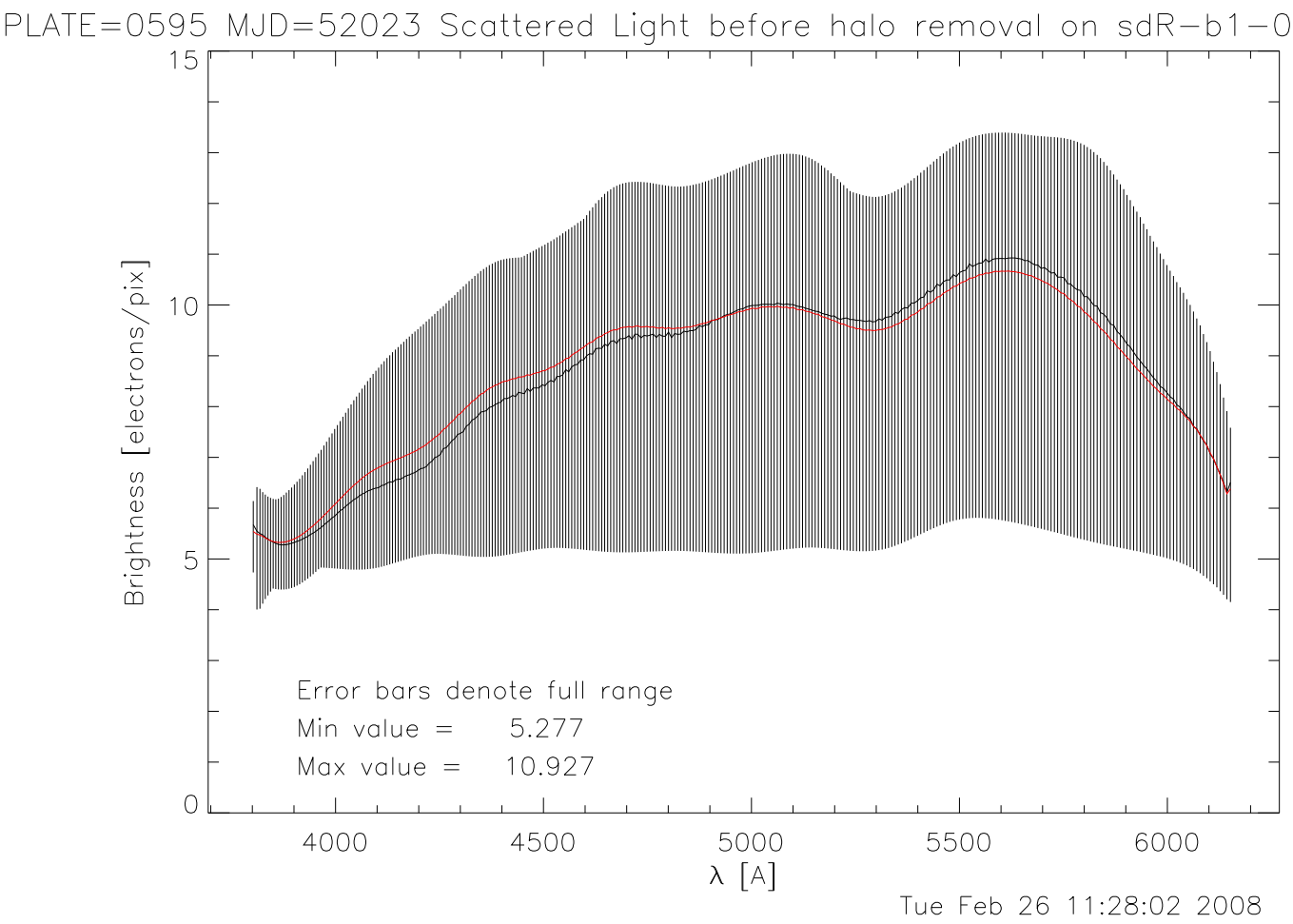

PLATE=0595 MJD=52023 flat extraction chi^2 for sdR−b1−00009702.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
10
20
30
40
50
60
0
500
1000
1500
2000

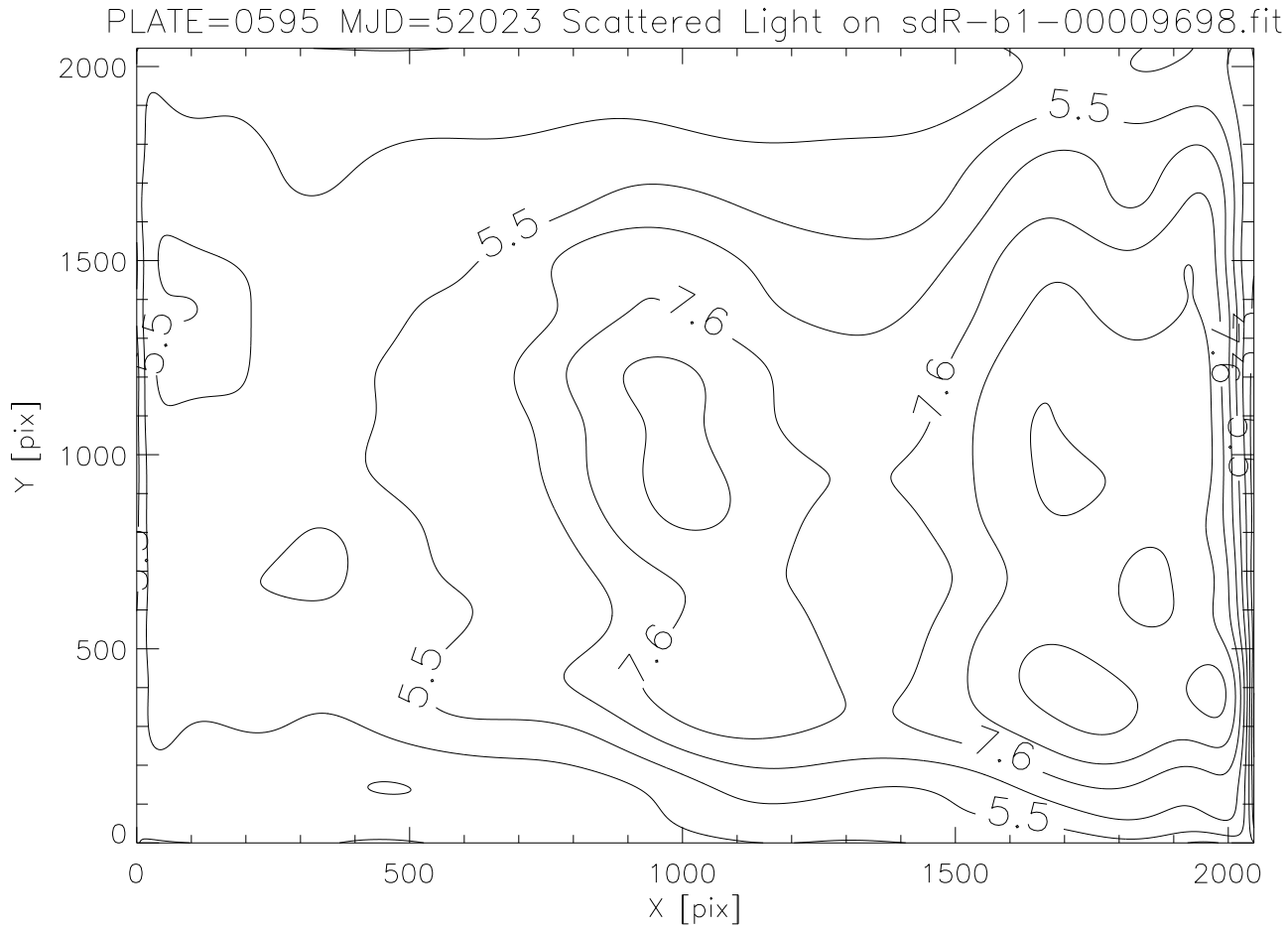

PLATE=0595 MJD=52023 Superflat sdR-b1-00009702.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

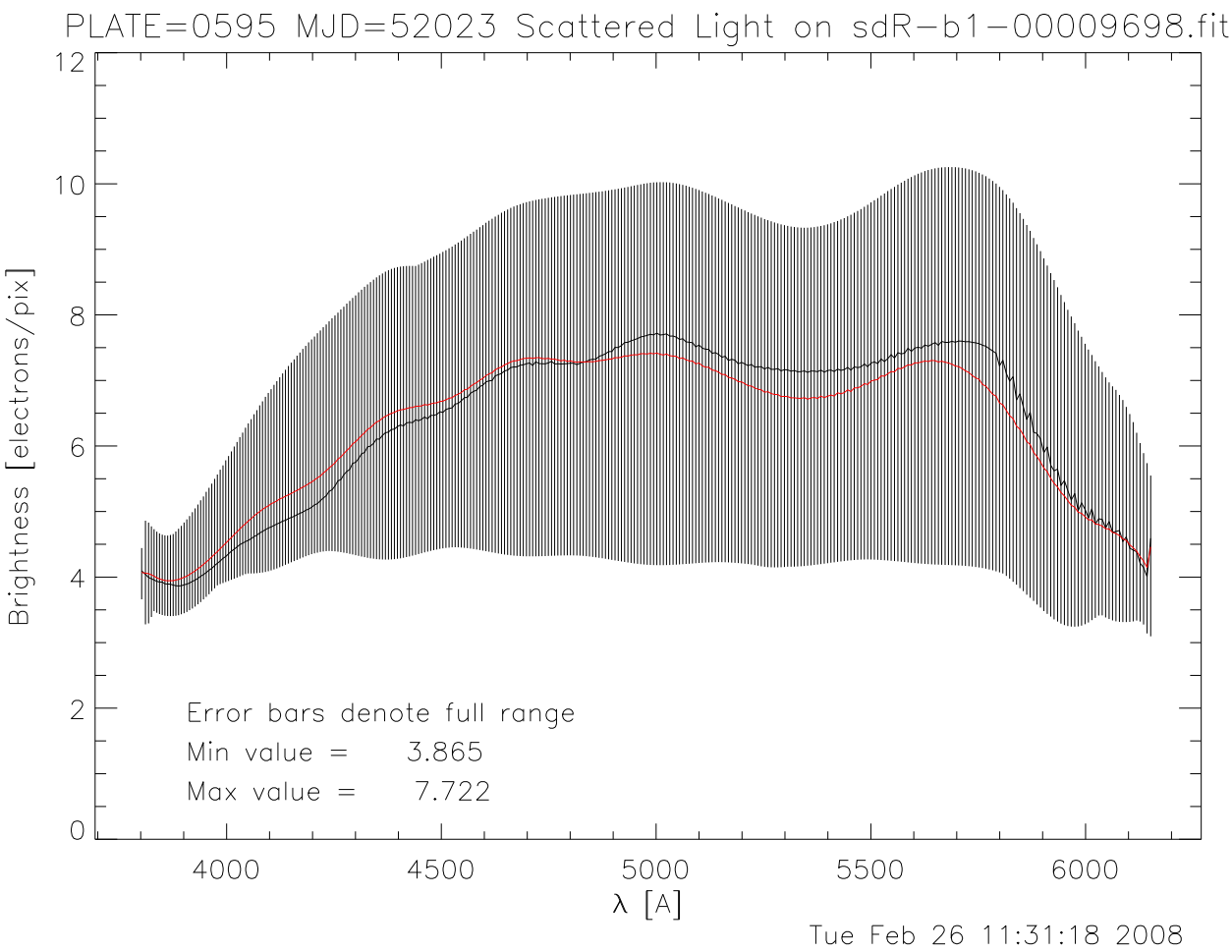

PLATE=0595 MJD=52023 Arcline Fit for sdR-b1-00009703.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 11:26:55 2008

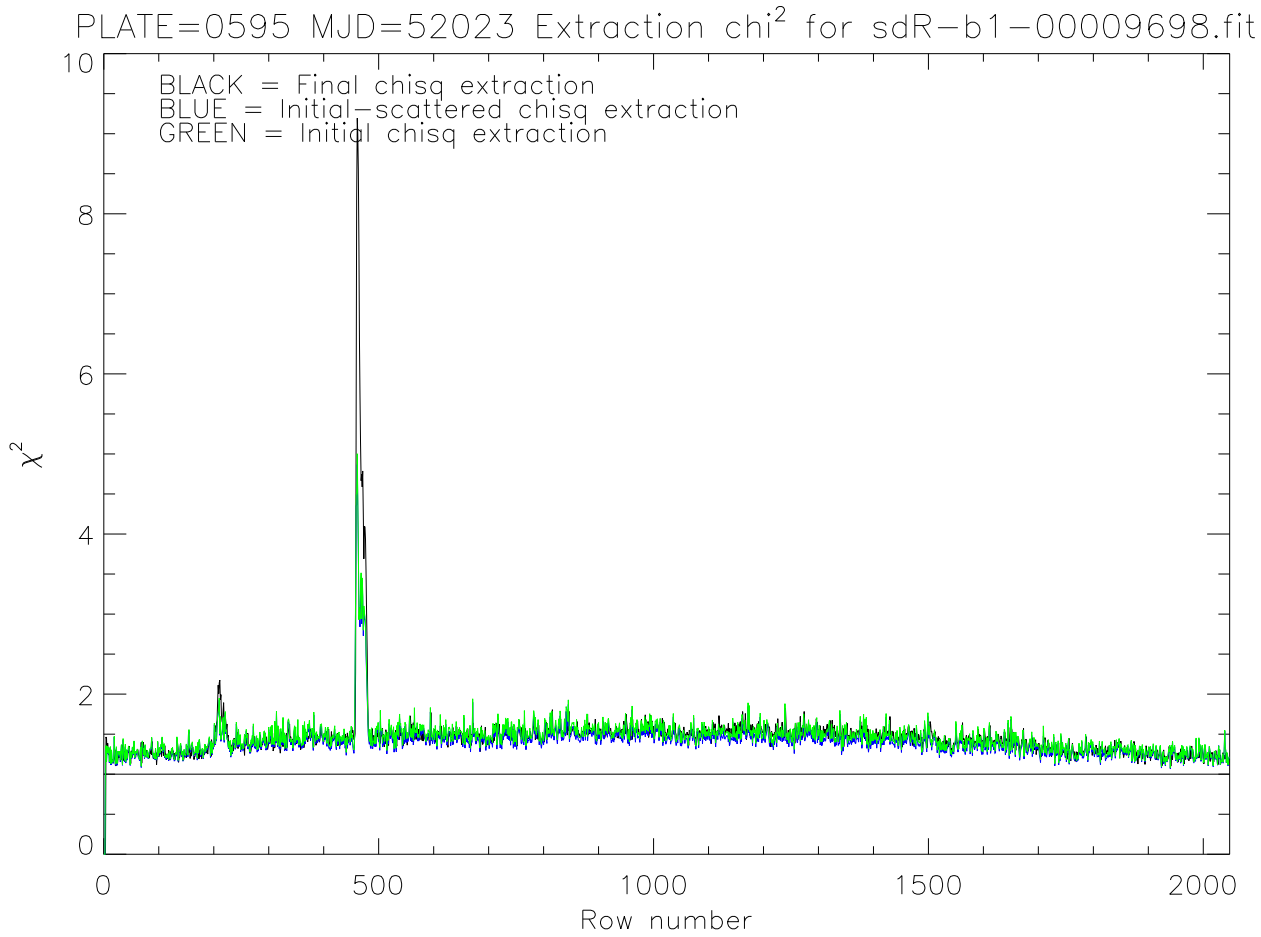

PLATE=0595 MJD=52023 Fiber-Flats for sdR-b1-00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.151
Max value = 1.306
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 11:27:04 2008

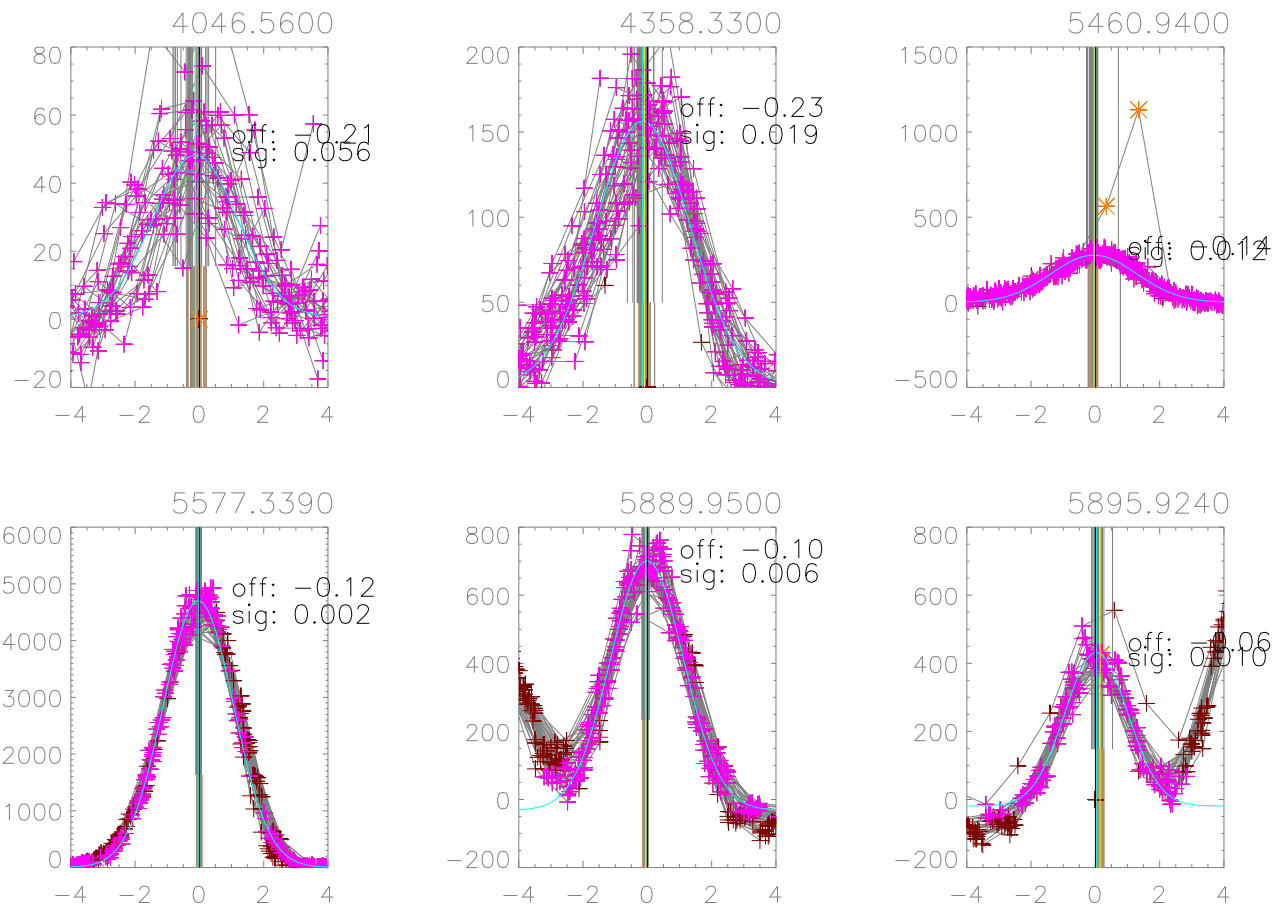

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR−b1−00009698.f
Y [pix]
X [pix]
0
500
1000
1500
2000
5.3
7.5
9.6
11.8

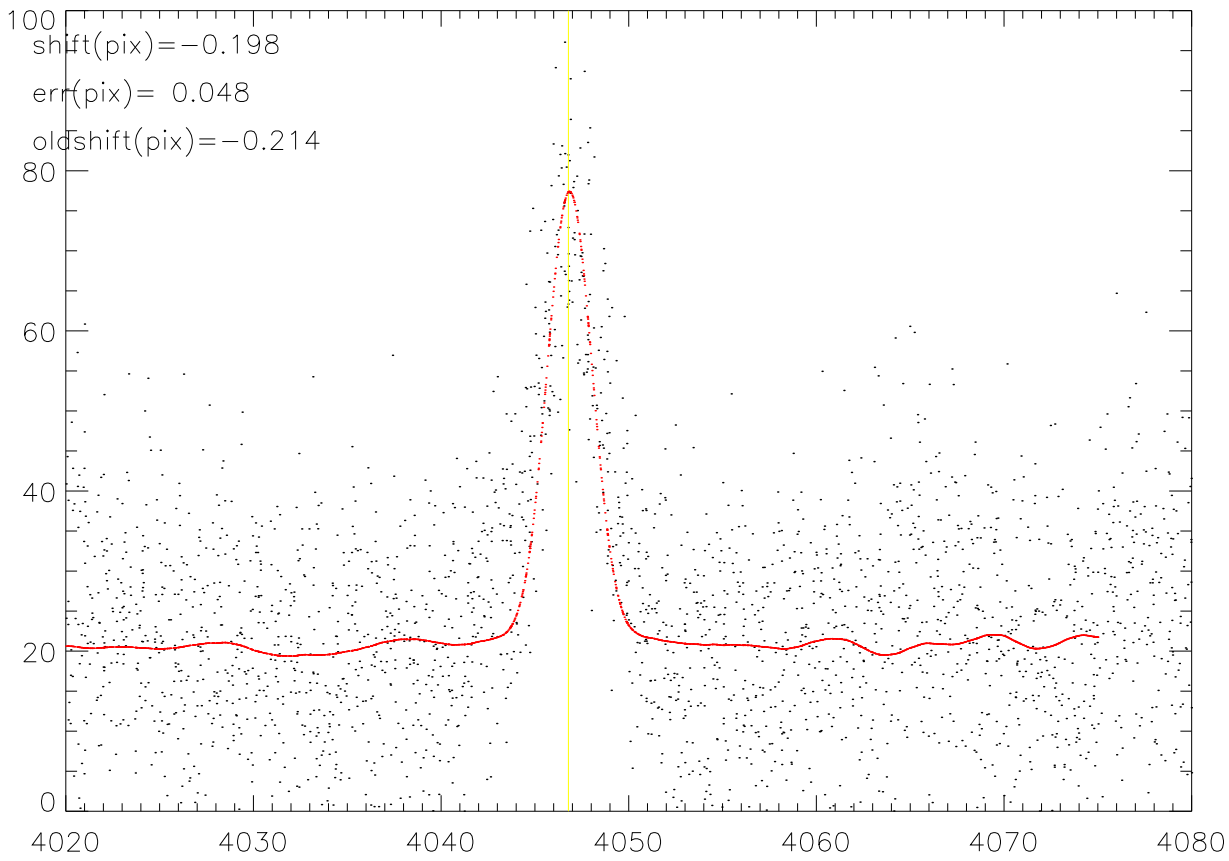

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-b1-00009698.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.277
Max value = 10.927
Tue Feb 26 11:28:02 2008

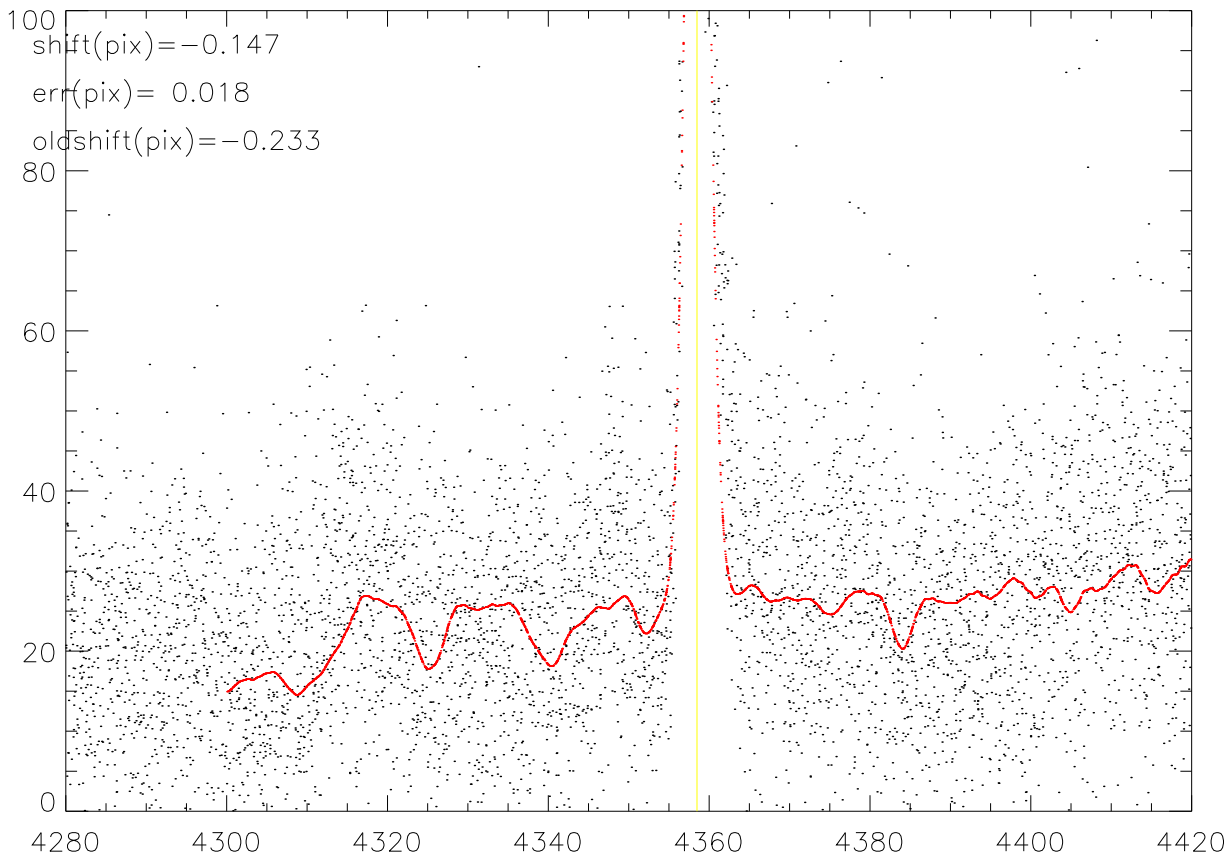

PLATE=0595 MJD=52023 Scattered Light on sdR-b1-00009698.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.5
7.6
0

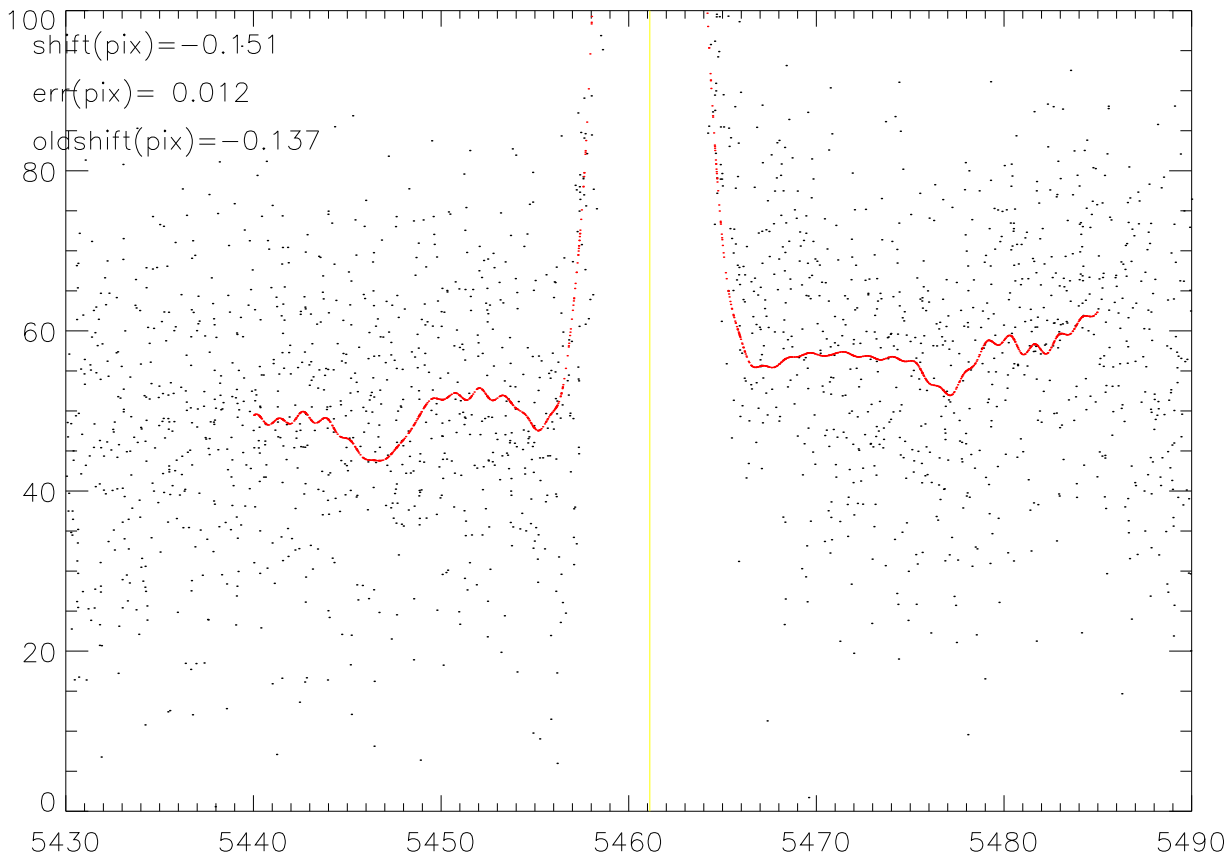

PLATE=0595 MJD=52023 Scattered Light on sdR-b1-00009698.fit
Brightness [electrons/pix]
12
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.865
Max value = 7.722
Tue Feb 26 11:31:18 2008

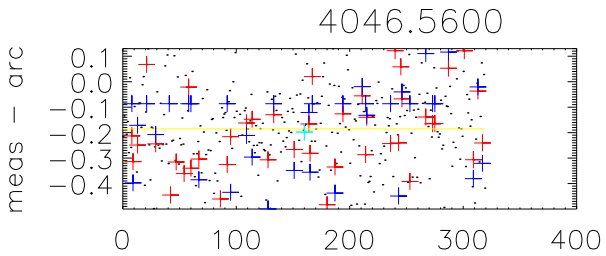

PLATE=0595 MJD=52023 Extraction chi^2 for sdR-b1-00009698.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

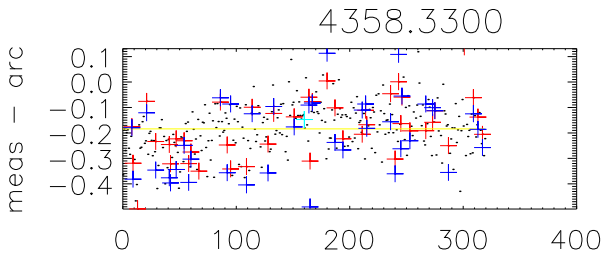

4046.5600
off: −0.21
sig: 0.056
4358.3300
off: −0.23
sig: 0.019
5460.9400
off: 0.14
sig: 0.012
5577.3390
off: −0.12
sig: 0.002
5889.9500
off: −0.10
sig: 0.006
5895.9240
off: −0.06
sig: 0.010

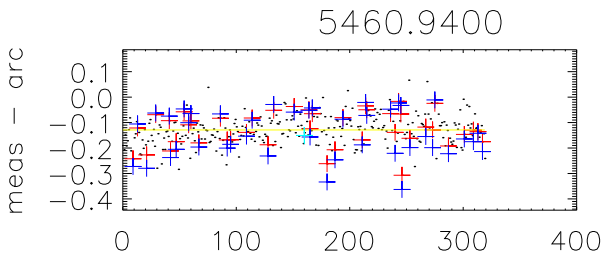

shift(pix)=−0.198
err(pix)= 0.048
oldshift(pix)=−0.214
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

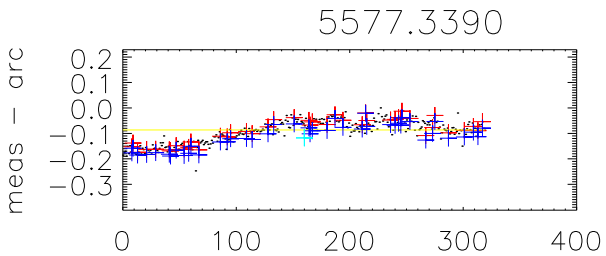

shift(pix)=−0.147
err(pix)= 0.018
oldshift(pix)=−0.233
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

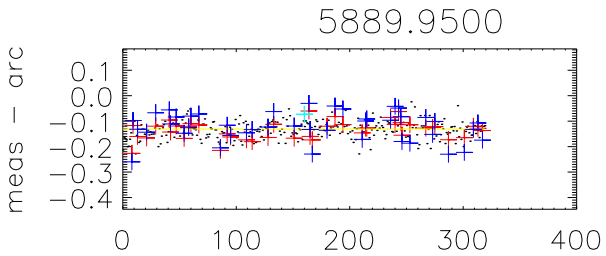

shift(pix)=−0.151
err(pix)= 0.012
oldshift(pix)=−0.137
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

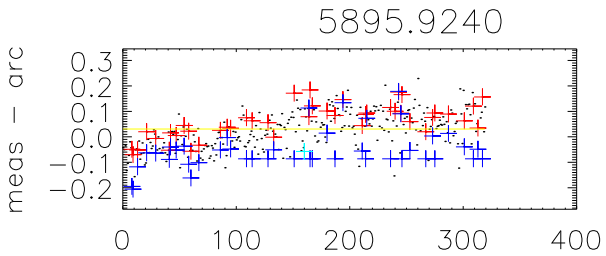

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

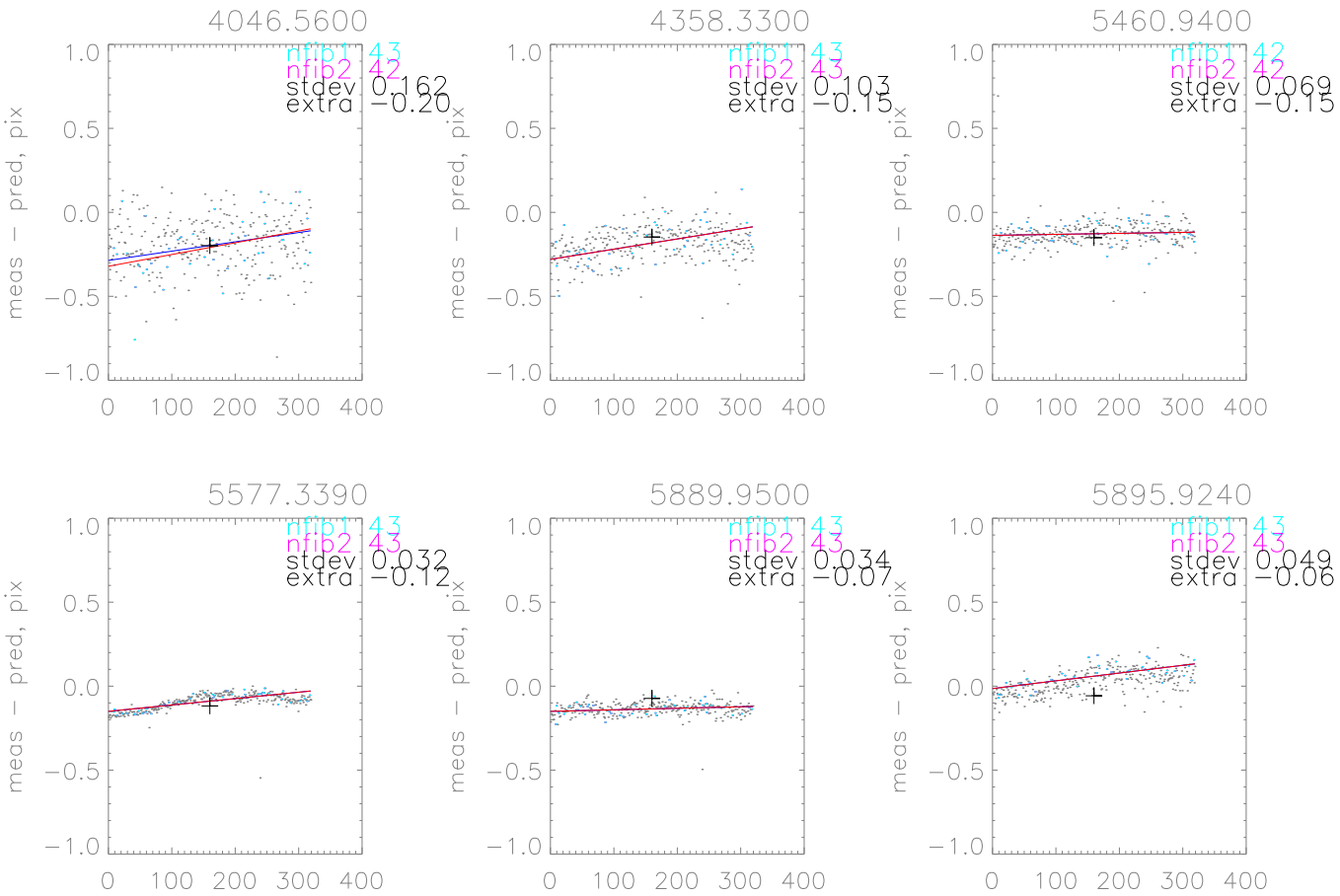

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

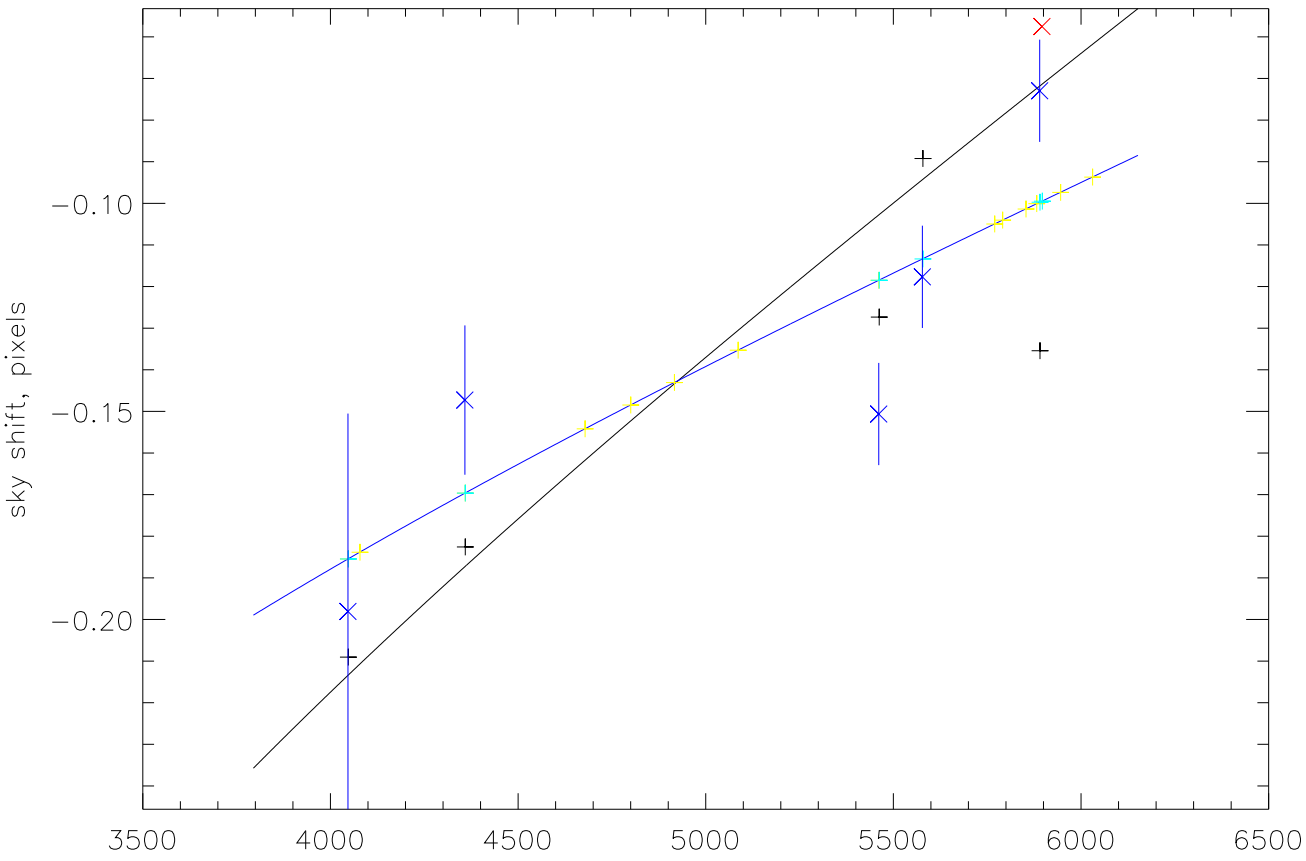

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

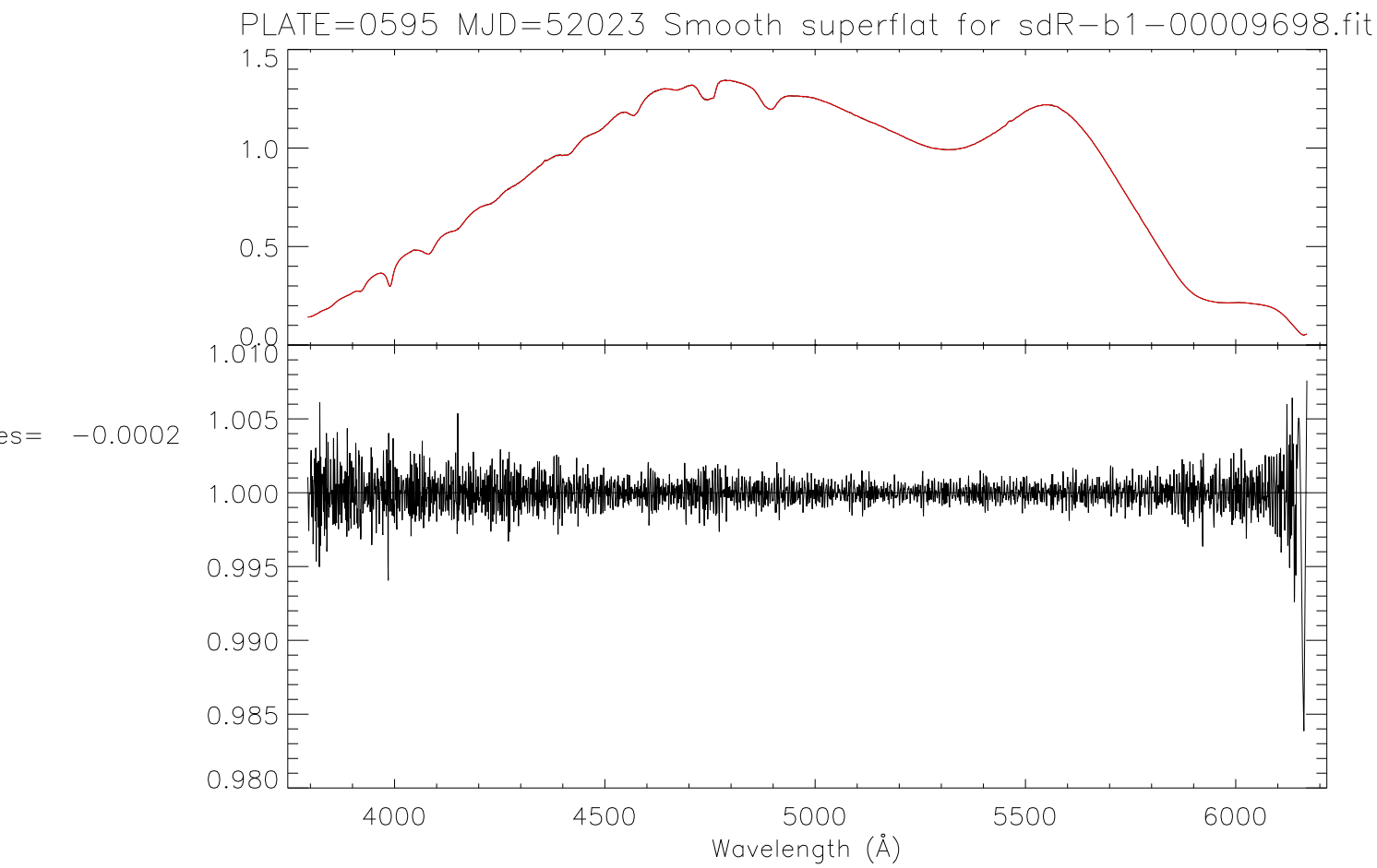

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

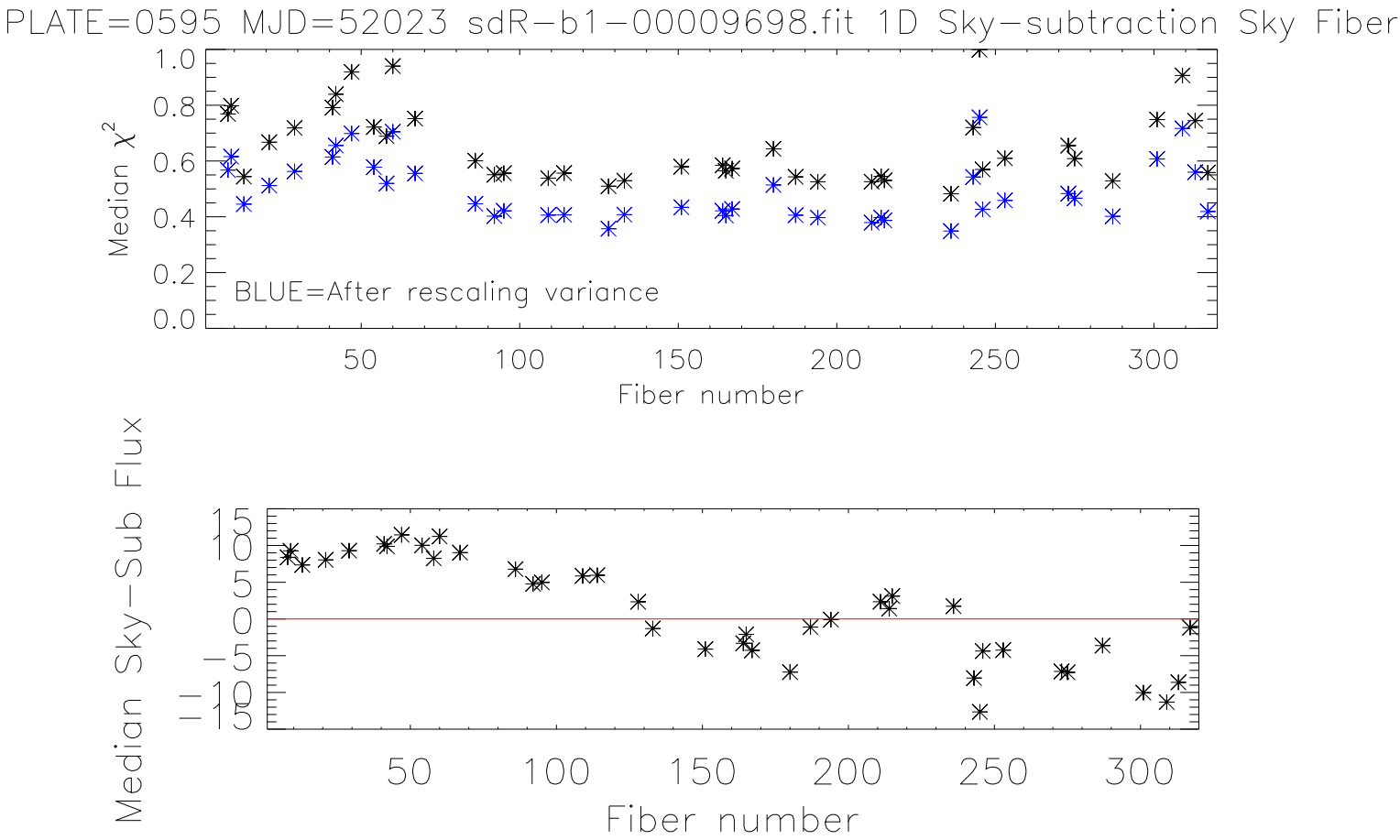

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

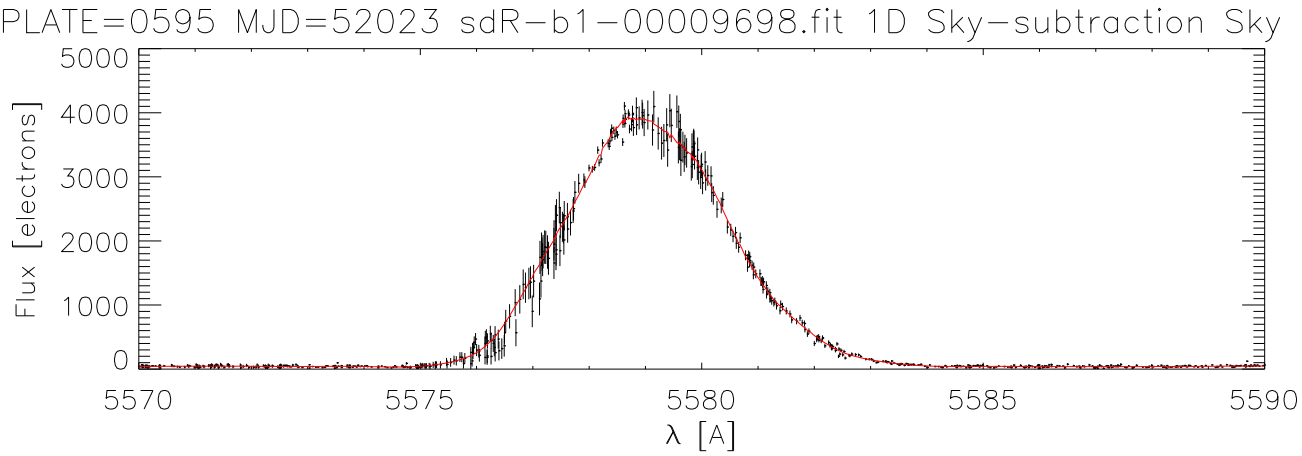

4046.5600
nfib1 43
nfib2 42
stdev 0.162
extra −0.20
4358.3300
nfib1 43
nfib2 43
stdev 0.103
extra −0.15
5460.9400
nfib1 42
nfib2 42
stdev 0.069
extra −0.15
5577.3390
nfib1 43
nfib2 43
stdev 0.032
extra −0.12
5889.9500
nfib1 43
nfib2 43
stdev 0.034
extra −0.07
5895.9240
nfib1 43
nfib2 43
stdev 0.049
extra −0.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

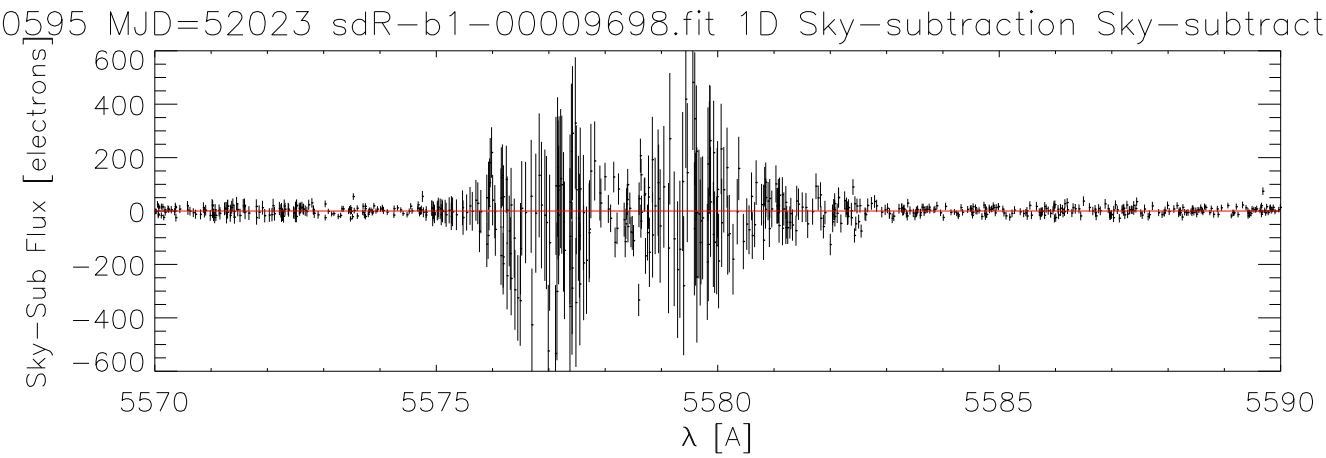

sky shift, pixels
−0.10
−0.15
−0.20
3500
4000
4500
5000
5500
6000
6500

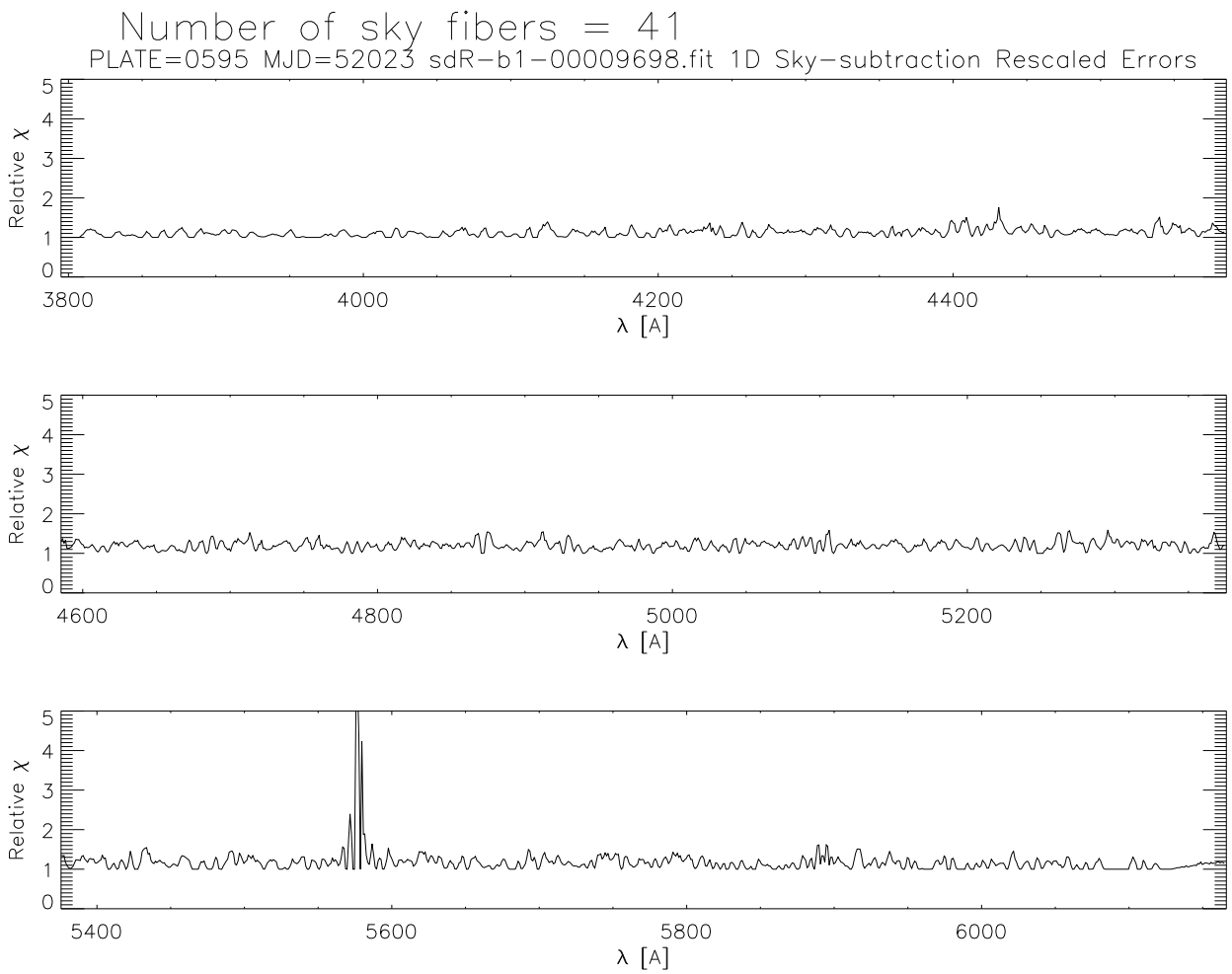

PLATE=0595 MJD=52023 Smooth superflat for sdR-b1-00009698.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
4000
4500
5000
5500
6000
Wavelength (Å)

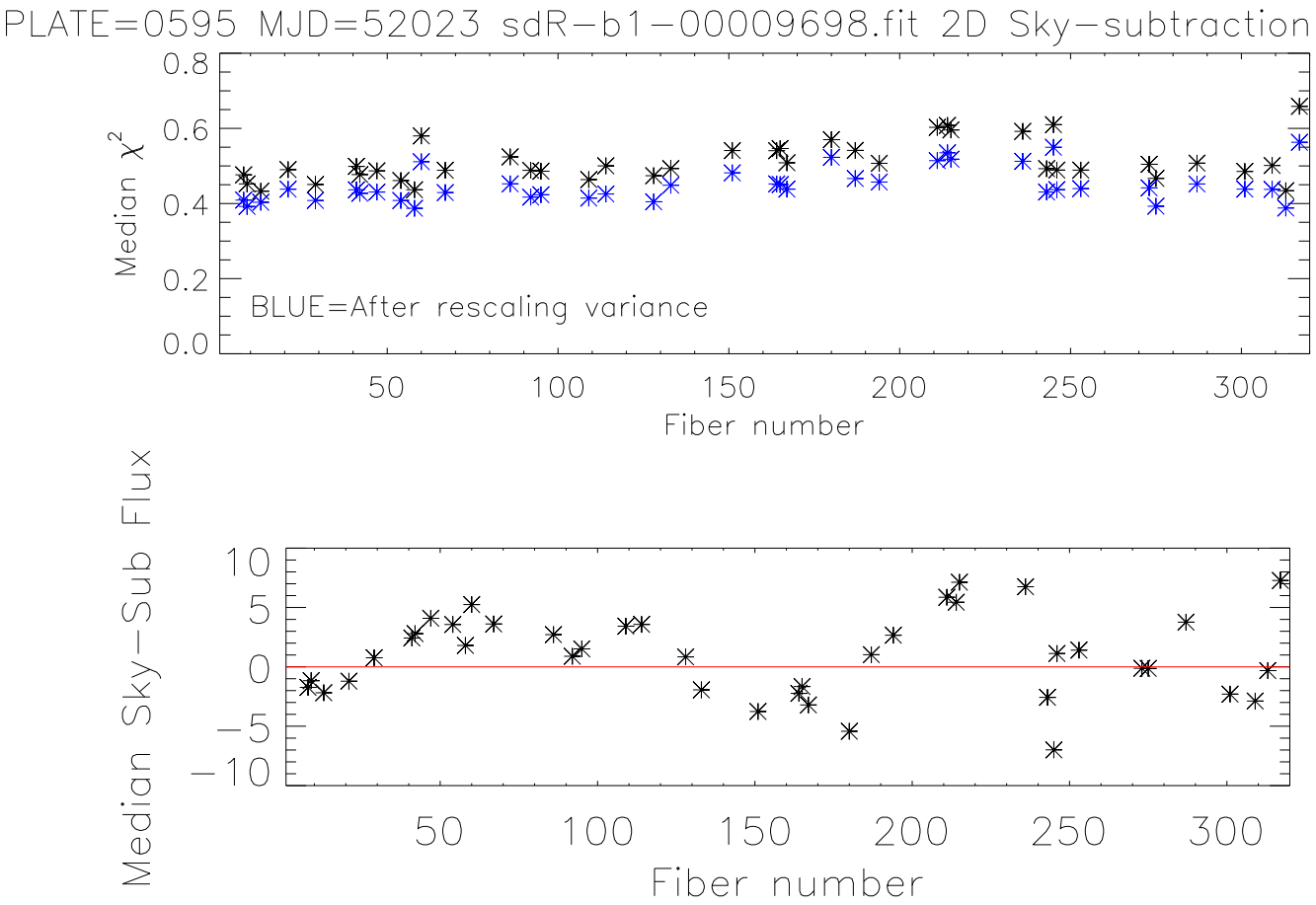
es= −0.0002

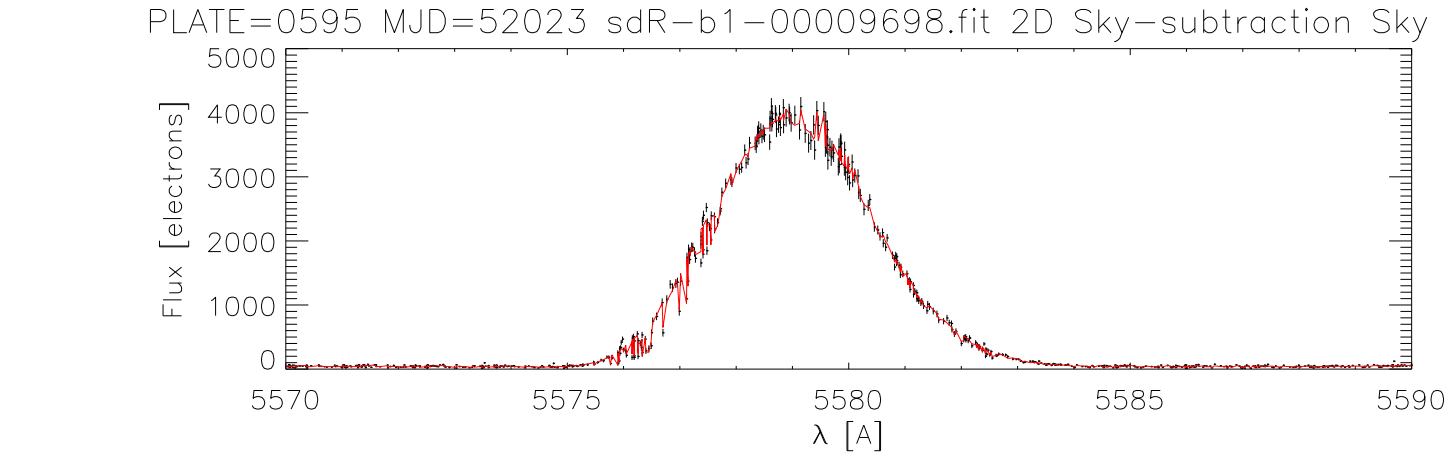

PLATE=0595 MJD=52023 sdR-b1-00009698.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

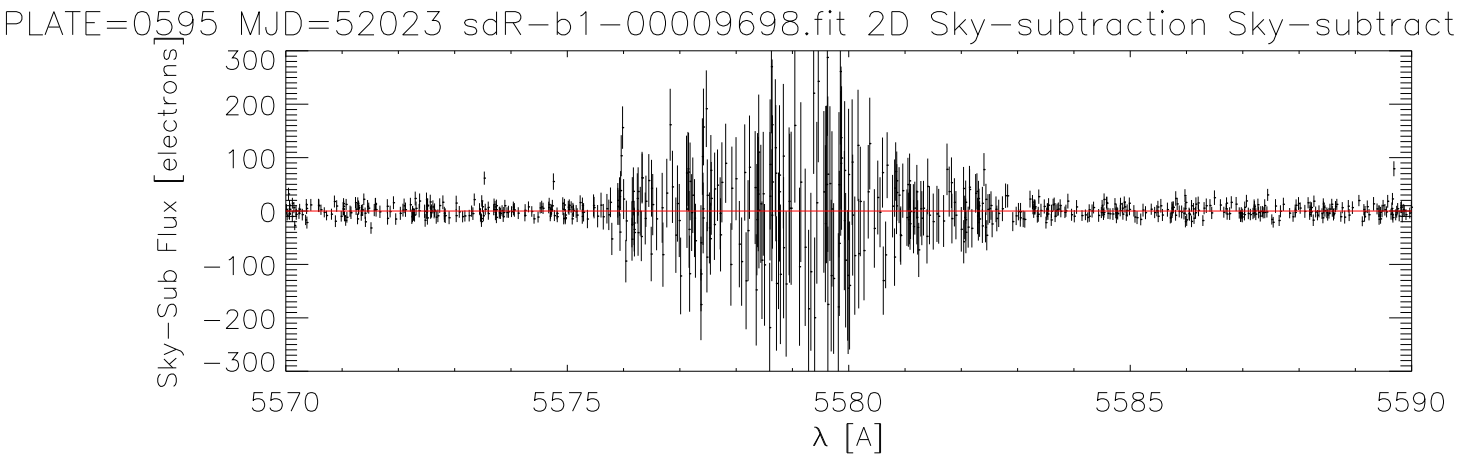

PLATE=0595 MJD=52023 sdR-b1-00009698.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

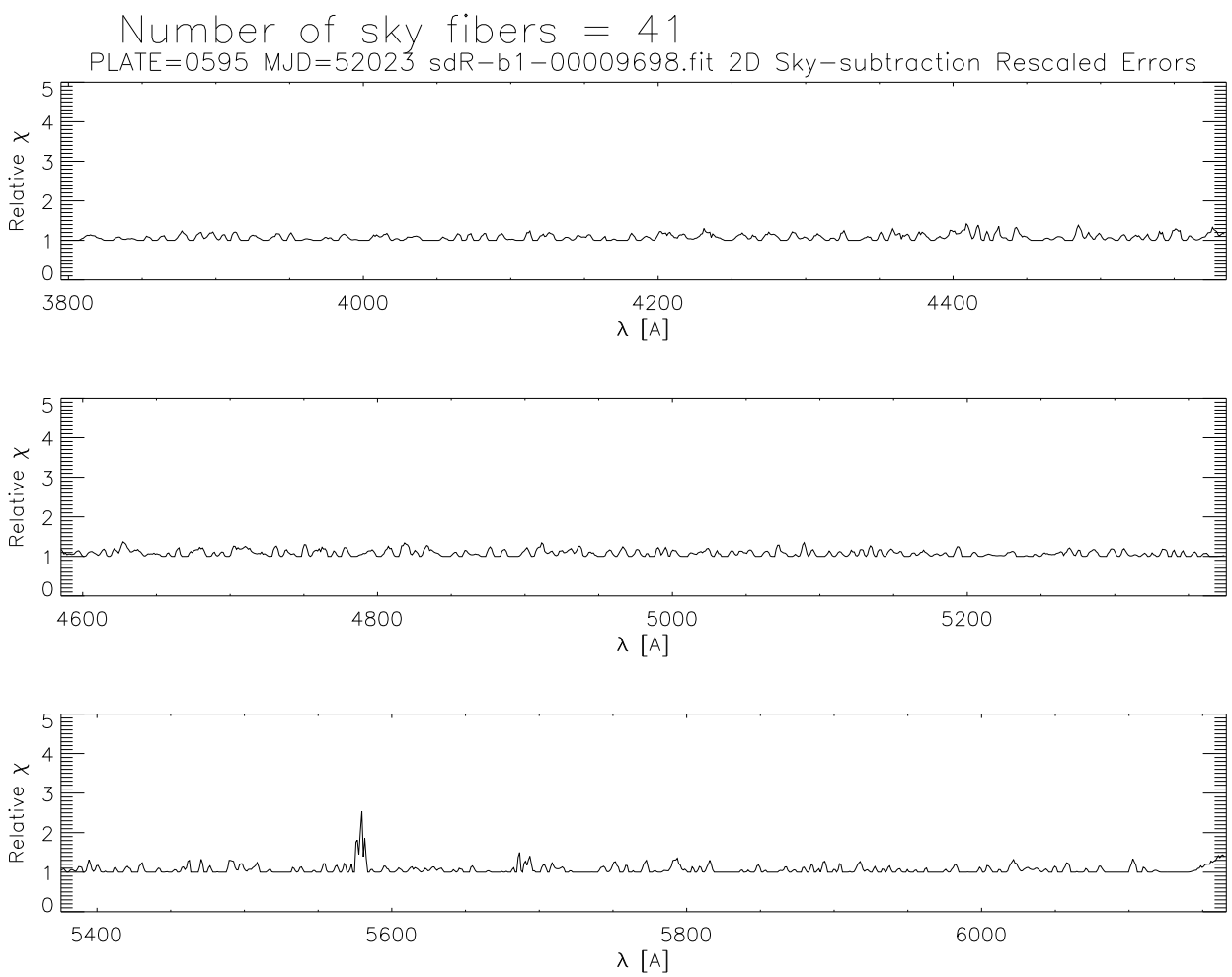

PLATE=0595 MJD=52023 sdR-b1-00009698.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

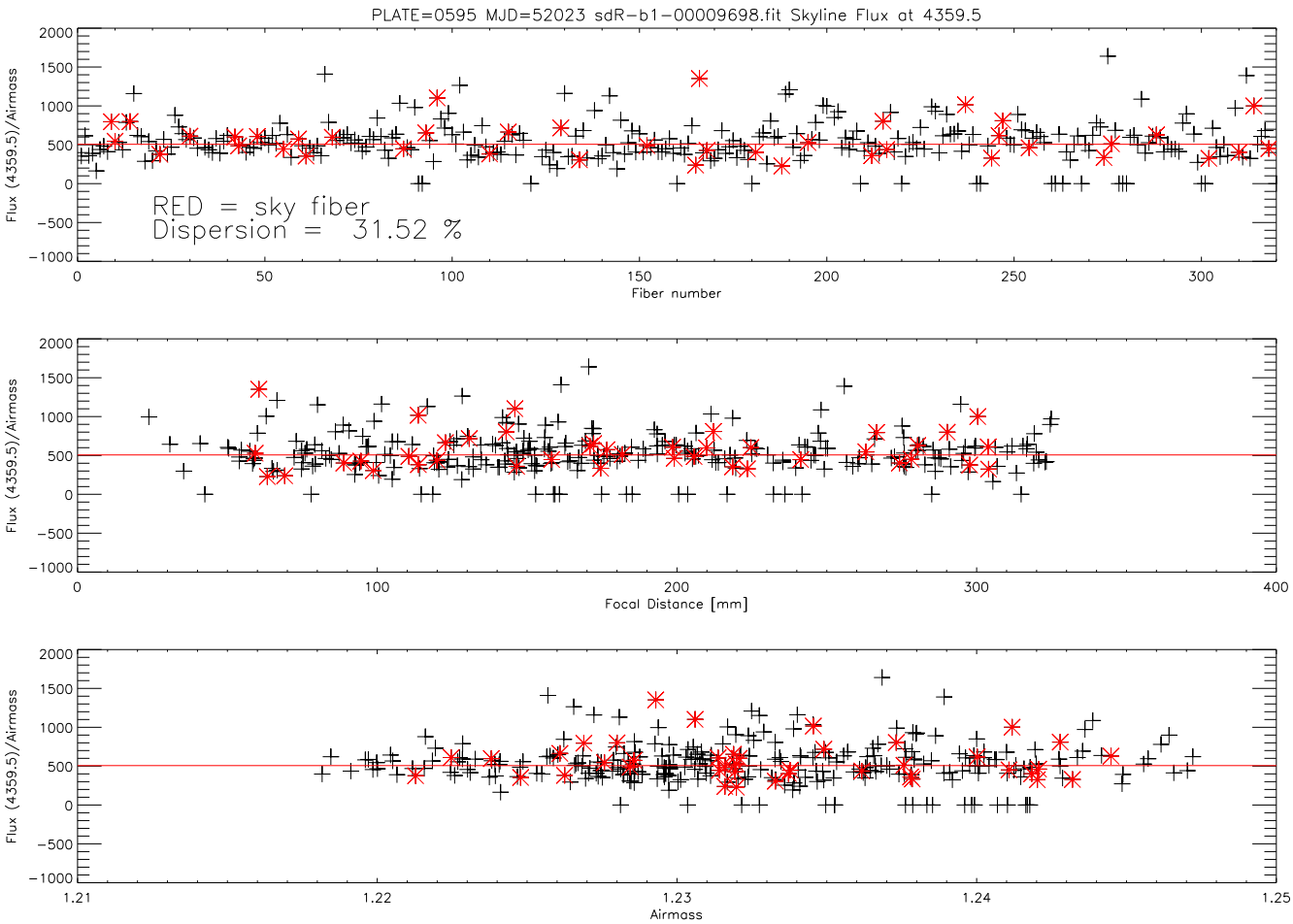

Number of sky fibers = 41
PLATE=0595 MJD=52023 sdR-b1-00009698.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

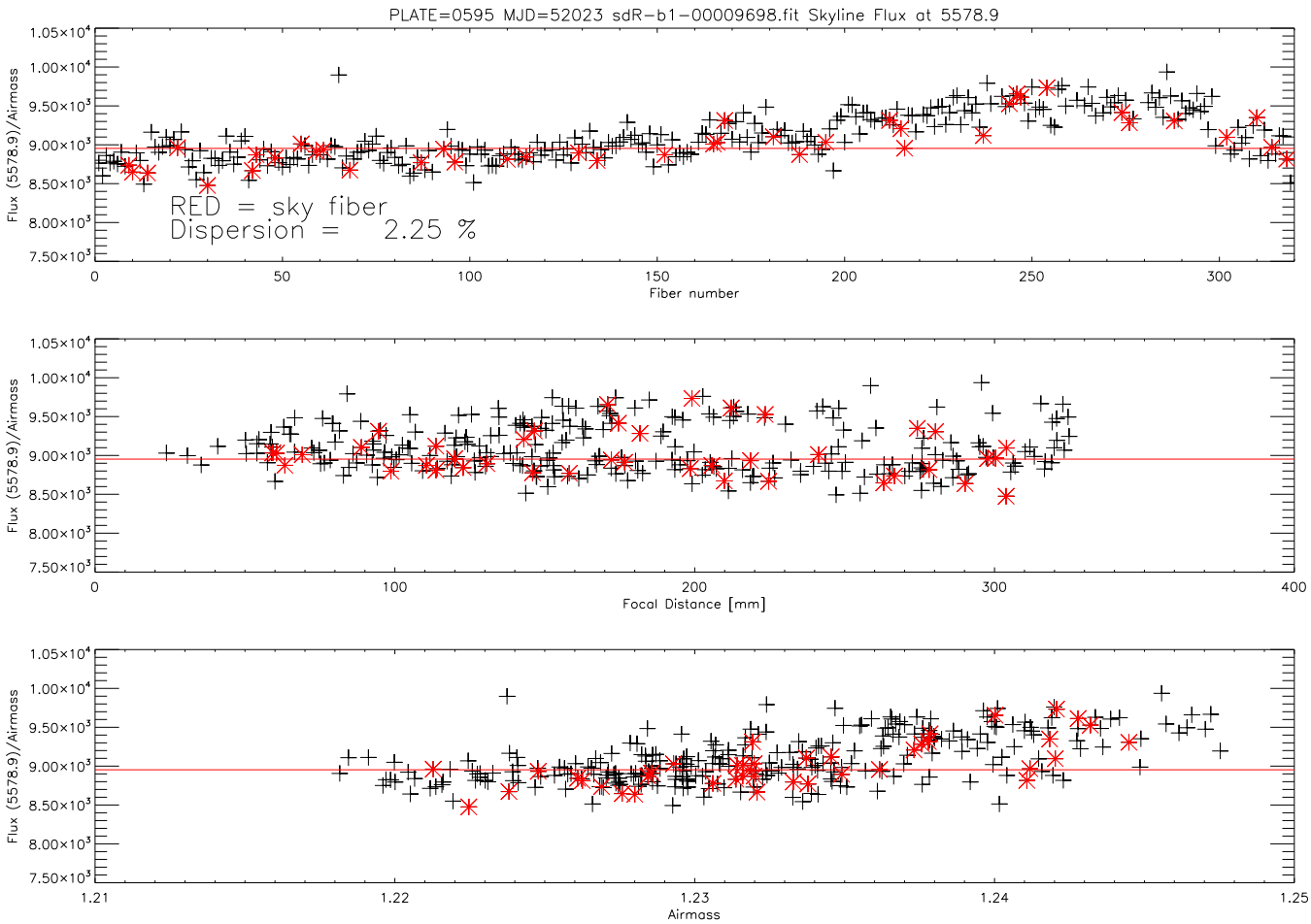

PLATE=0595 MJD=52023 sdR-b1-00009698.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

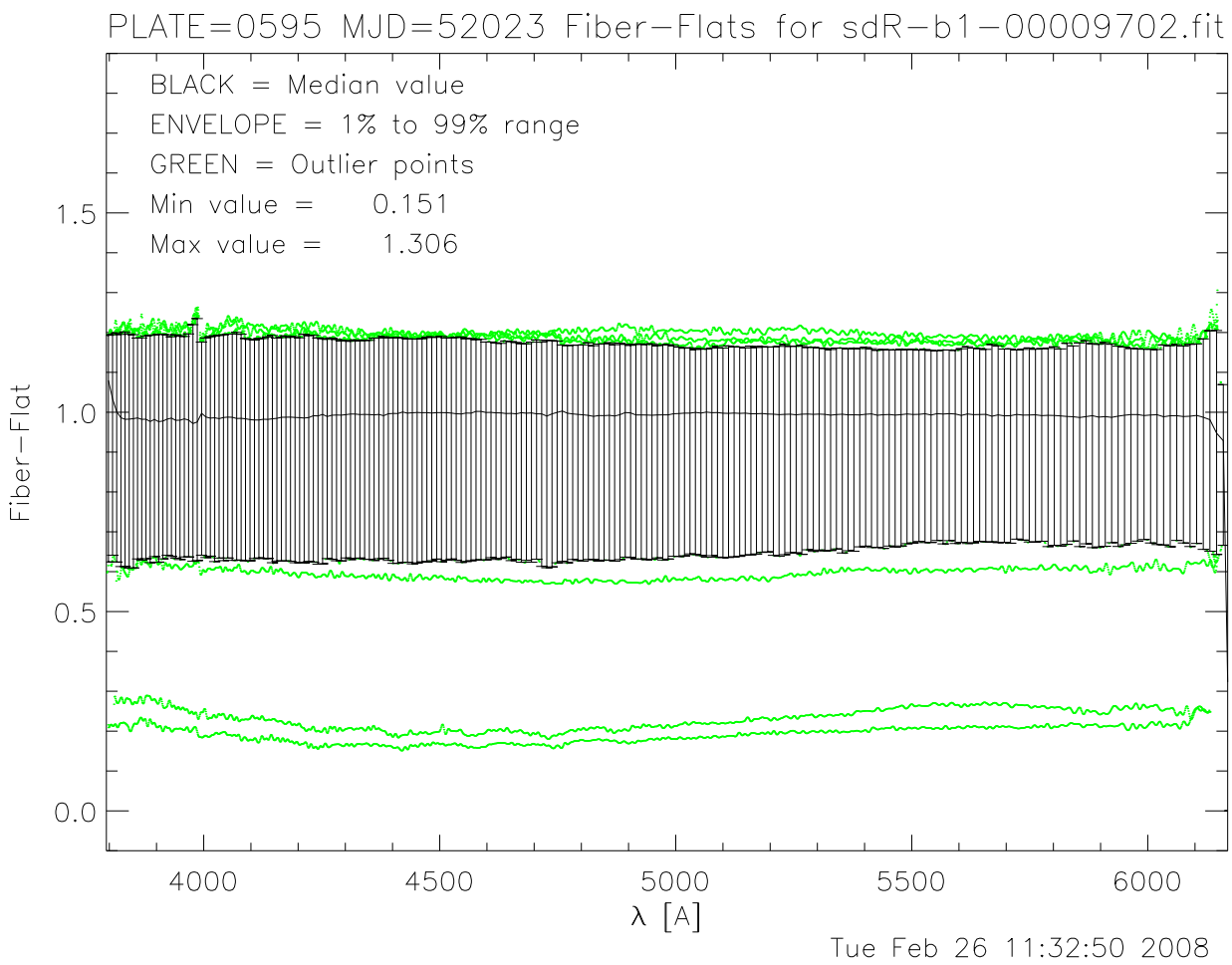

PLATE=0595 MJD=52023 sdR-b1-00009698.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

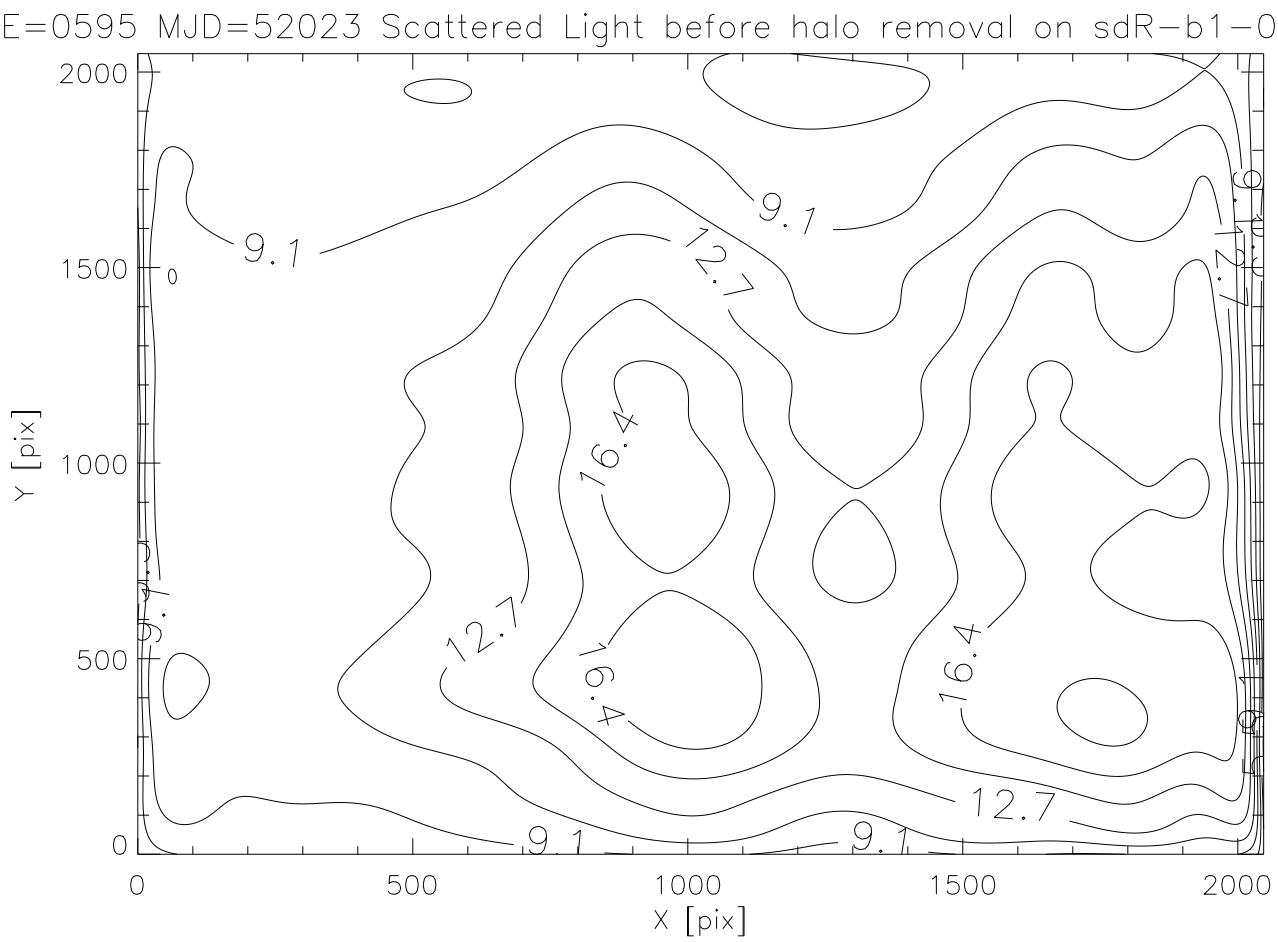

PLATE=0595 MJD=52023 sdR-b1-00009698.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

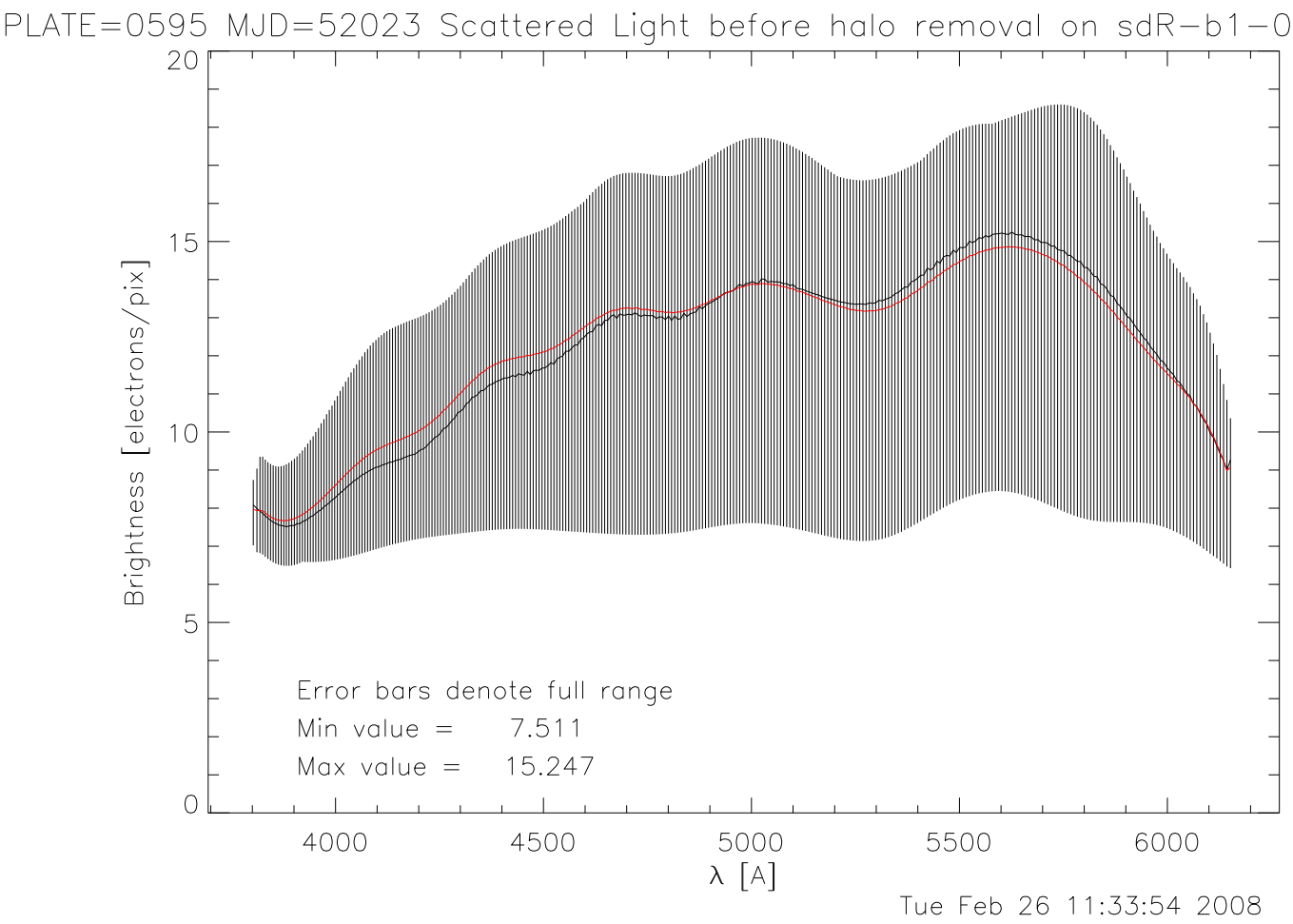

Number of sky fibers = 41
PLATE=0595 MJD=52023 sdR-b1-00009698.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

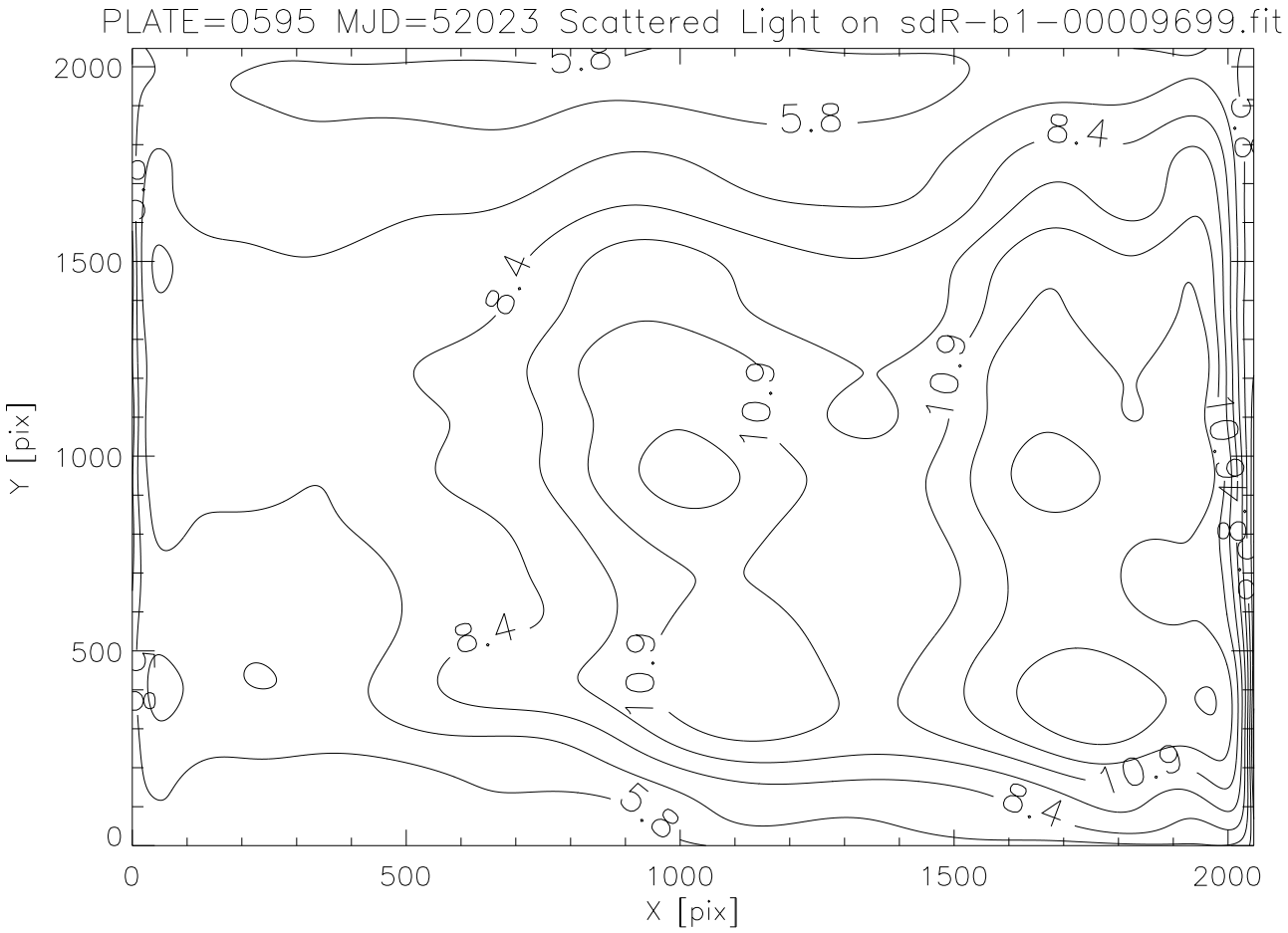

PLATE=0595 MJD=52023 sdR-b1-00009698.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 31.52 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

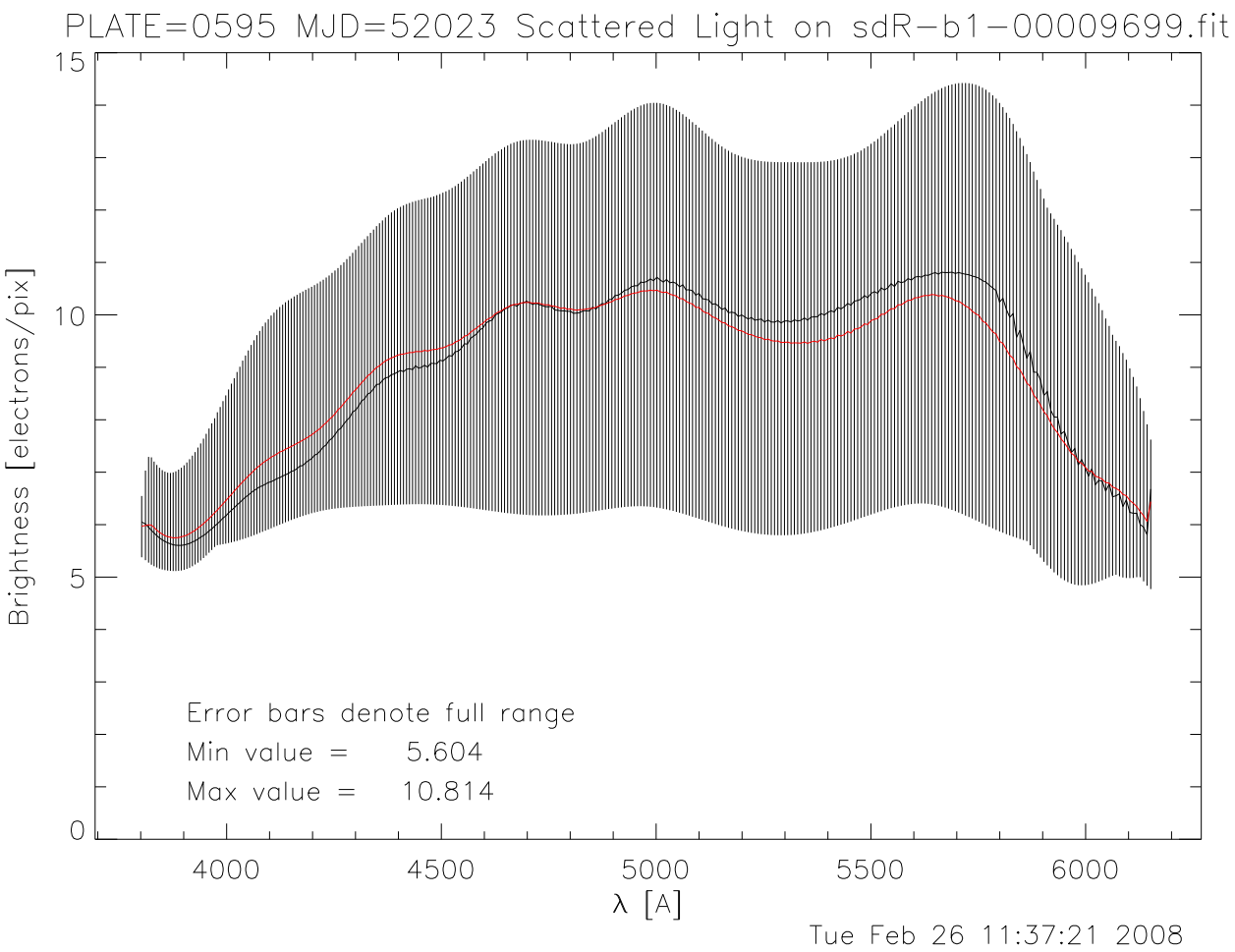

PLATE=0595 MJD=52023 sdR-b1-00009698.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.25 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

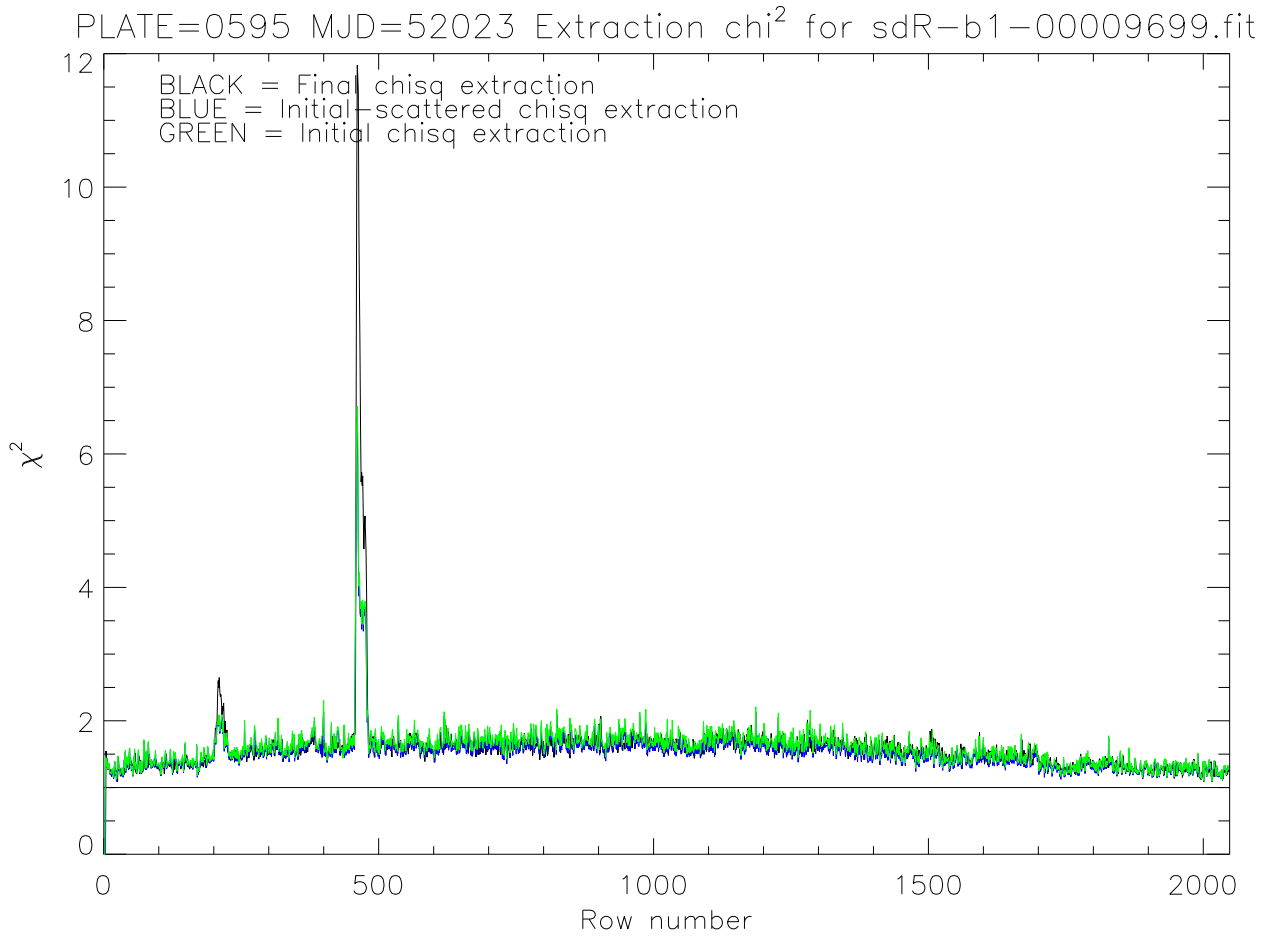

PLATE=0595 MJD=52023 Fiber-Flats for sdR-b1-00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.151
Max value = 1.306
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 11:32:50 2008

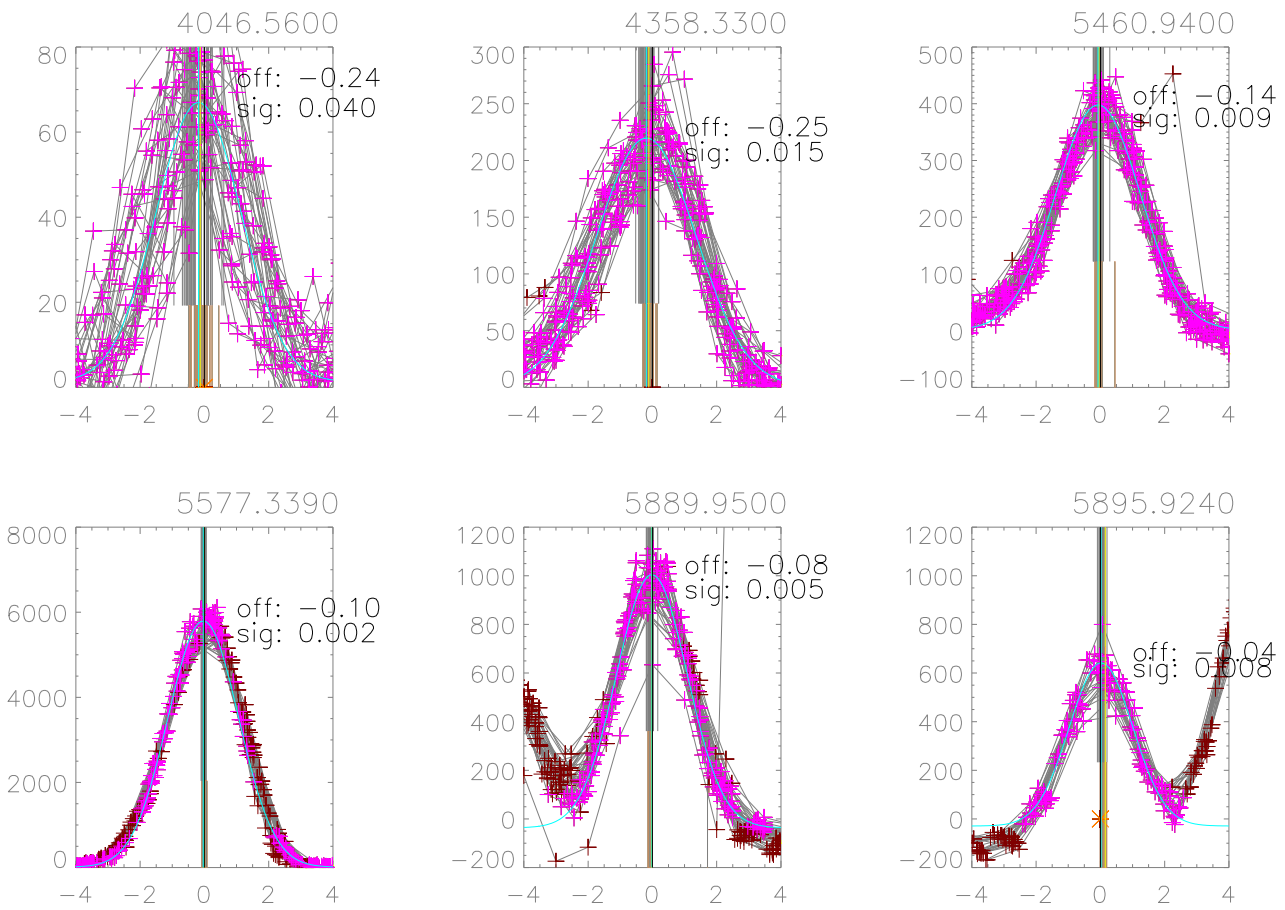

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR−b1−00009699.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
12.7
16.4

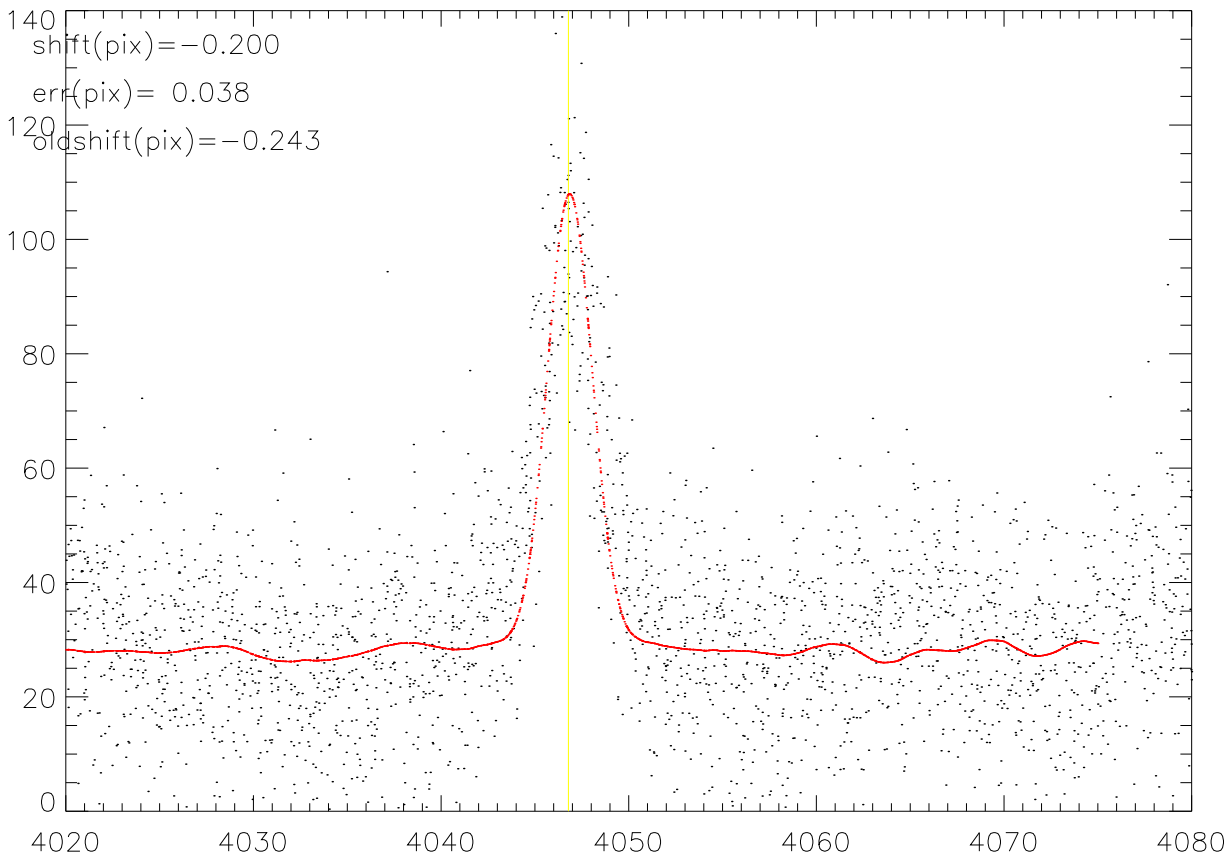

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-b1-00009699.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.511
Max value = 15.247
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 11:33:54 2008

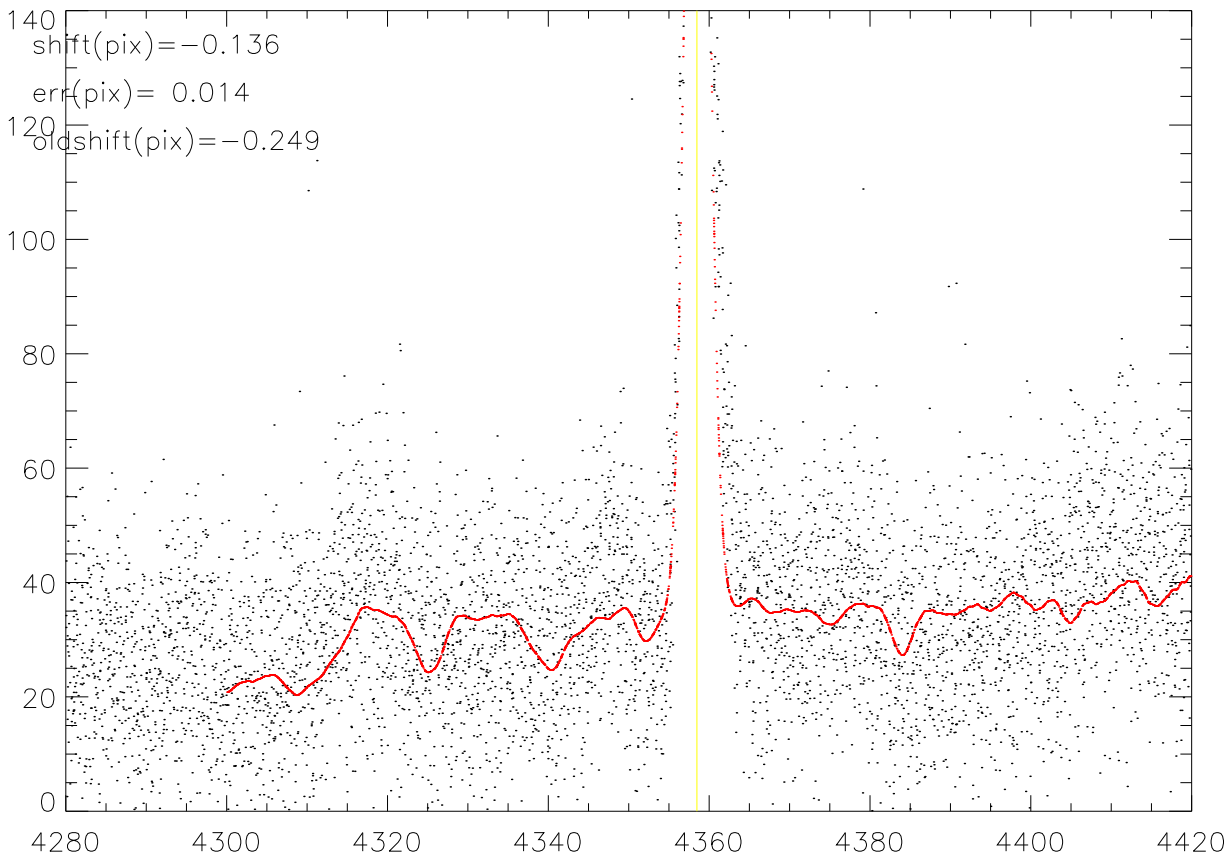

PLATE=0595 MJD=52023 Scattered Light on sdR-b1-00009699.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.8
8.4
10.9
0

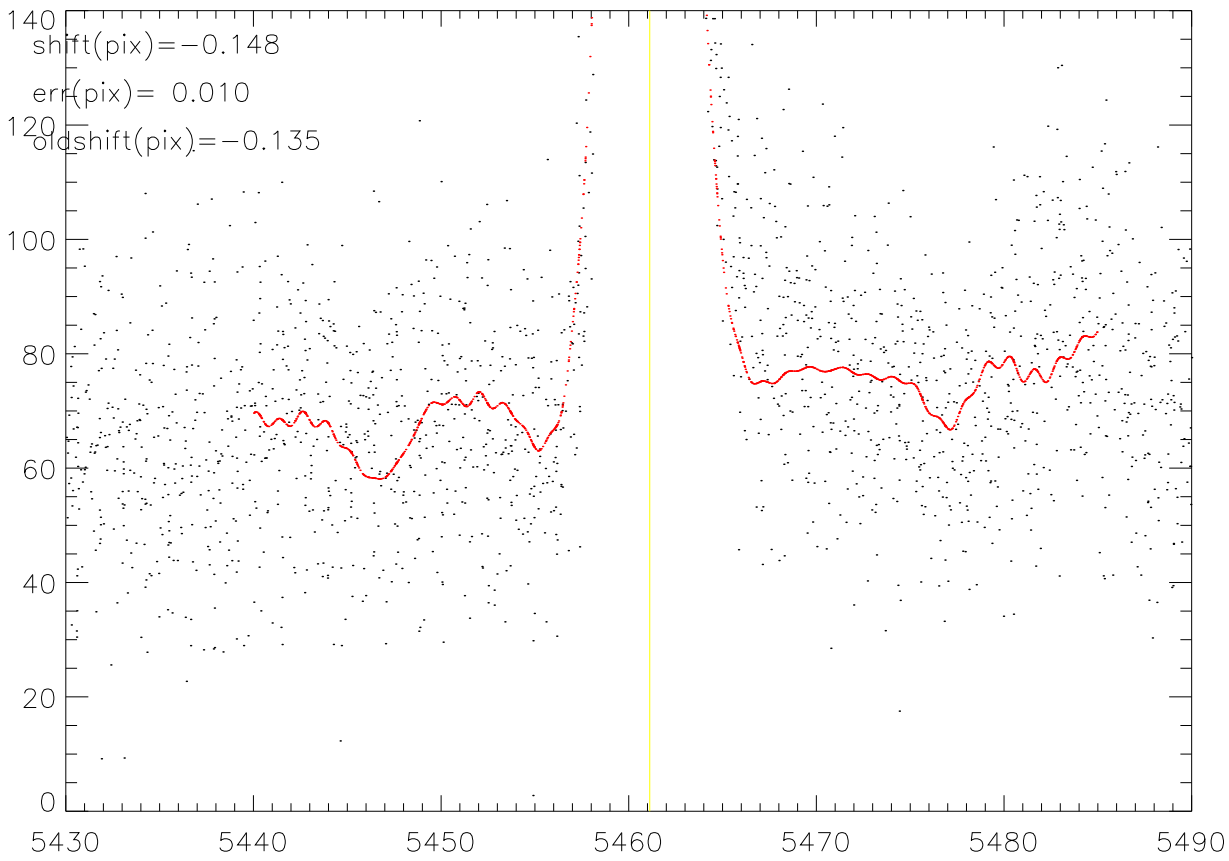

PLATE=0595 MJD=52023 Scattered Light on sdR-b1-00009699.fit
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 5.604
Max value = 10.814
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 11:37:21 2008

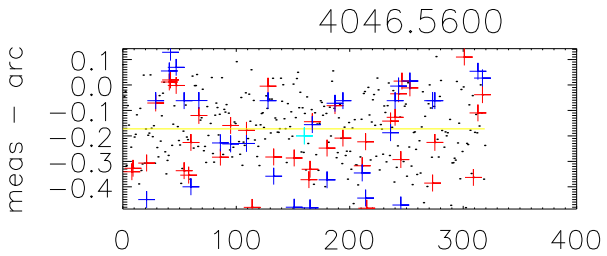

PLATE=0595 MJD=52023 Extraction chi^2 for sdR-b1-00009699.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
0
500
1000
1500
2000
Row number

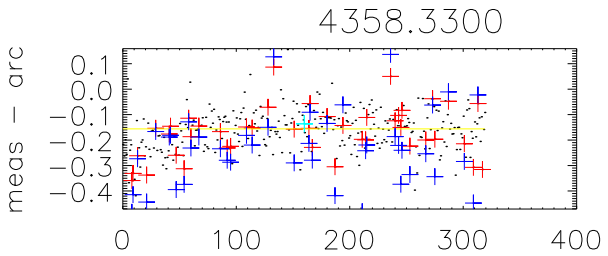

4046.5600
off: −0.24
sig: 0.040
4358.3300
off: −0.25
sig: 0.015
5460.9400
off: −0.14
sig: 0.009
5577.3390
off: −0.10
sig: 0.002
5889.9500
off: −0.08
sig: 0.005
5895.9240
off: −0.04
sig: 0.008

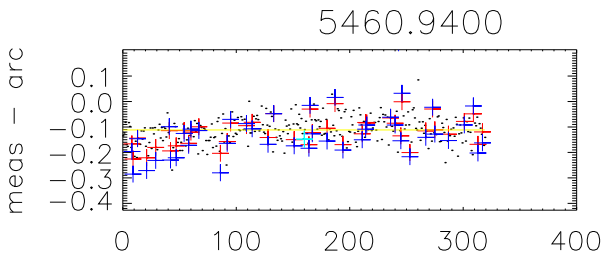

shift(pix)=−0.200
err(pix)= 0.038
oldshift(pix)=−0.243
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

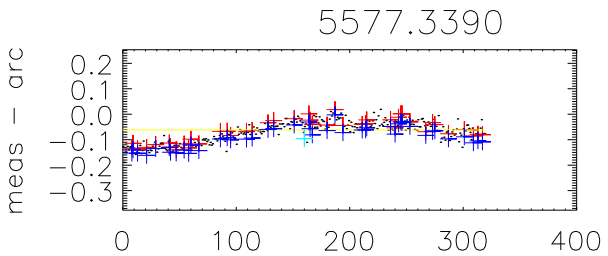

shift(pix)=−0.136
err(pix)= 0.014
oldshift(pix)=−0.249
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

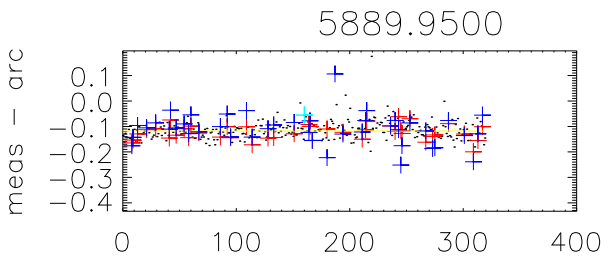

shift(pix)=−0.148
err(pix)= 0.010
oldshift(pix)=−0.135
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

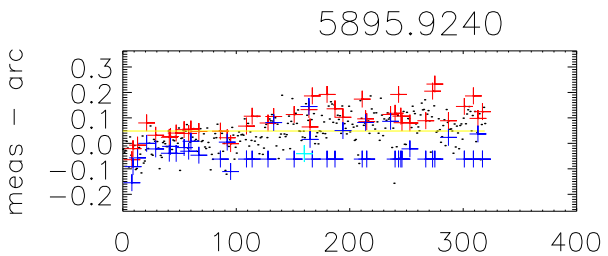

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

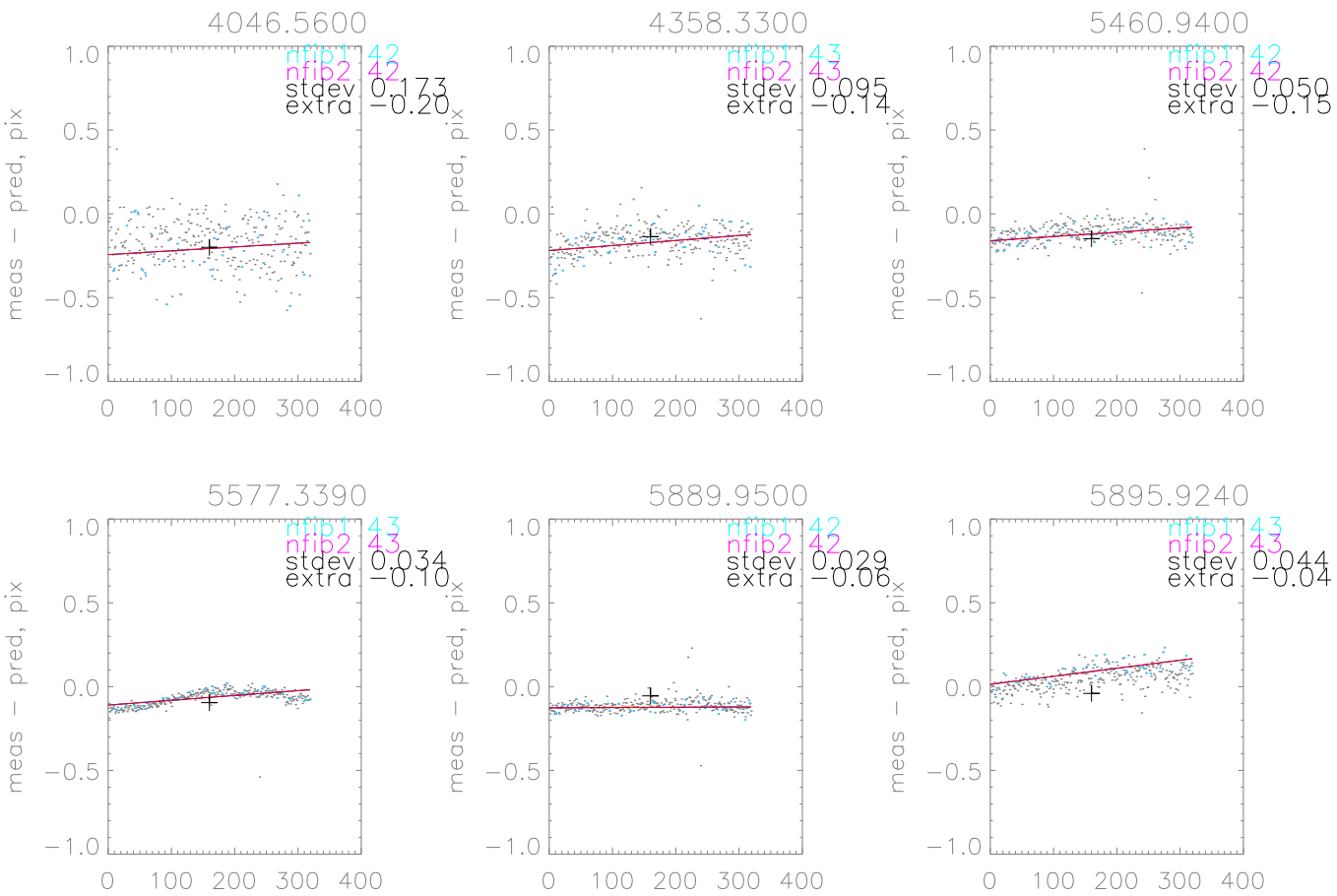

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

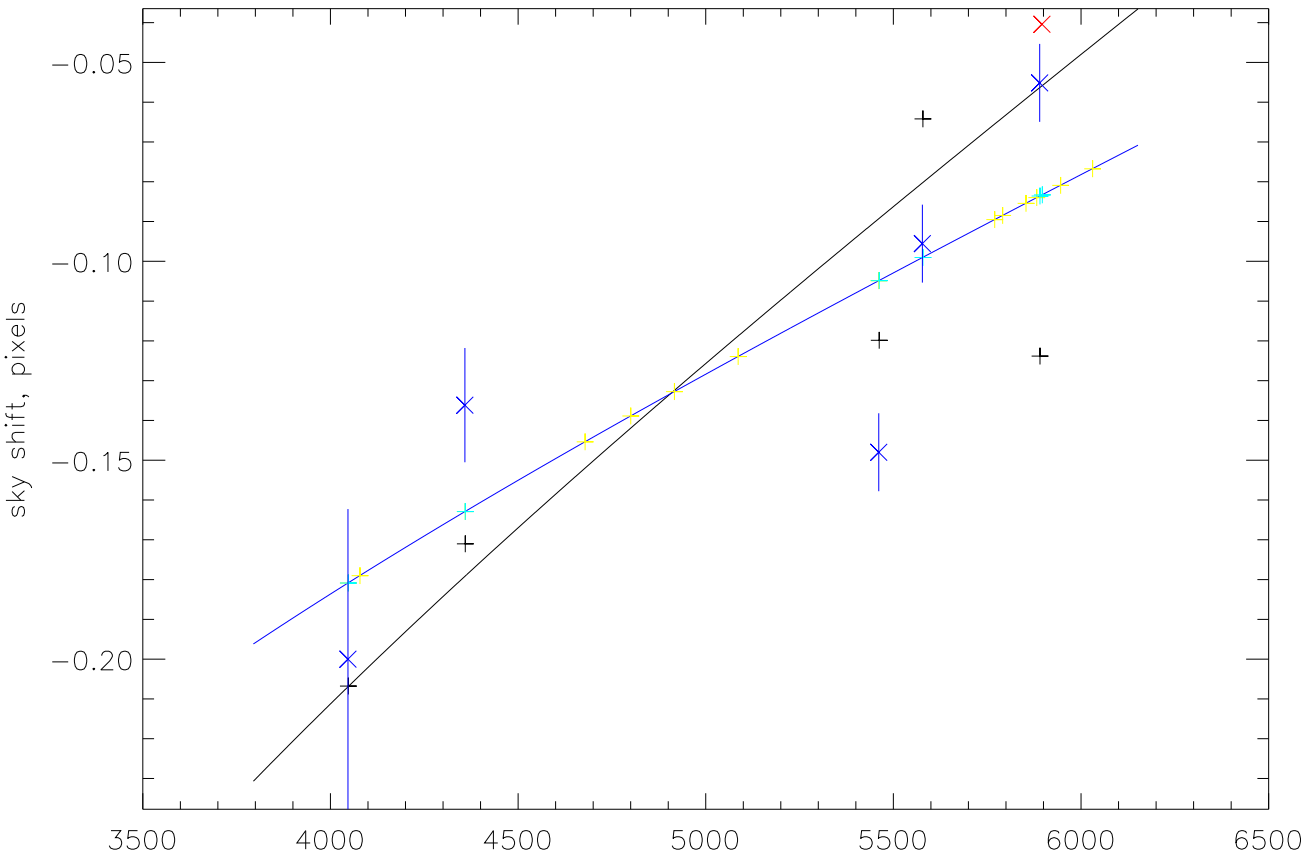

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

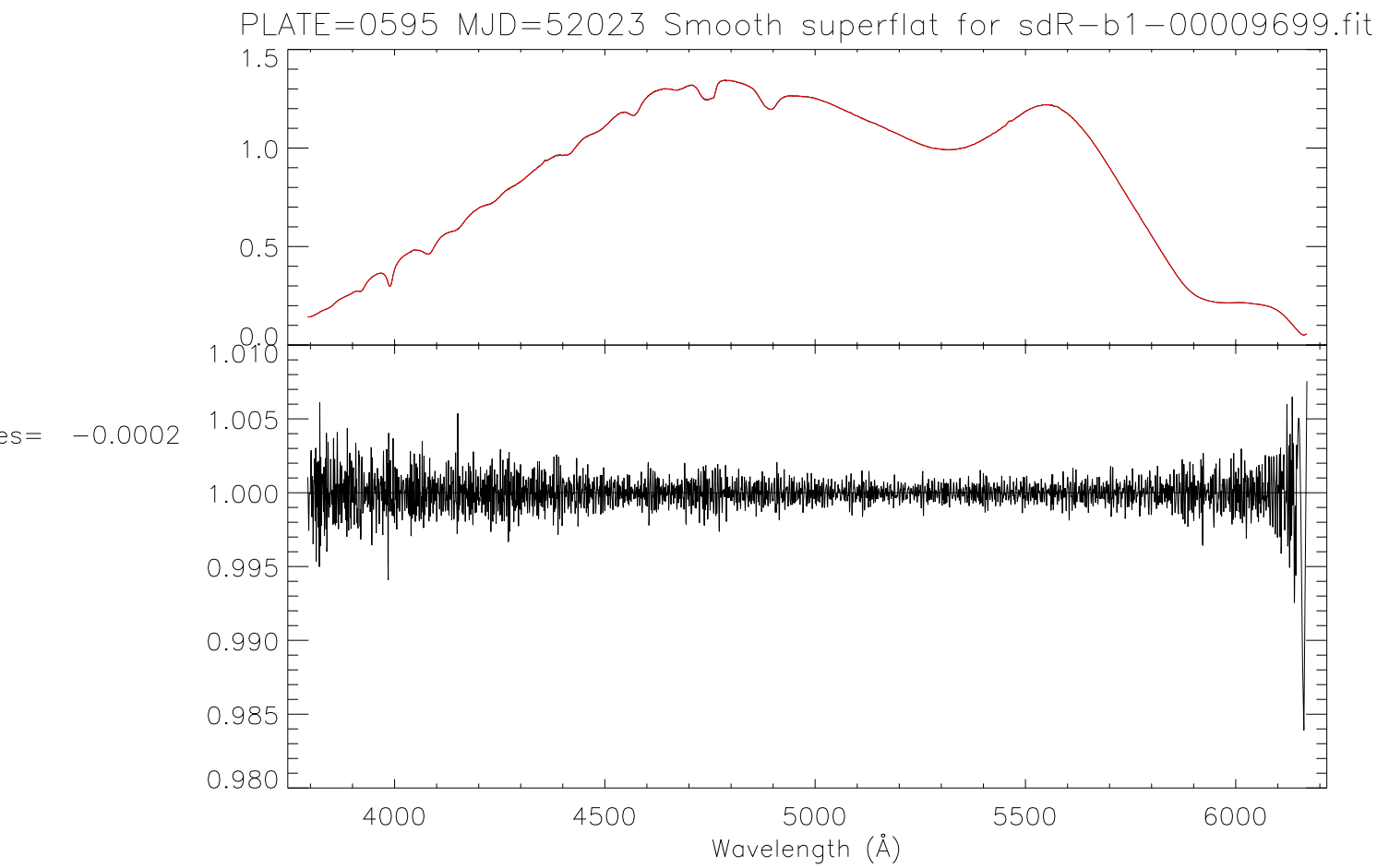

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

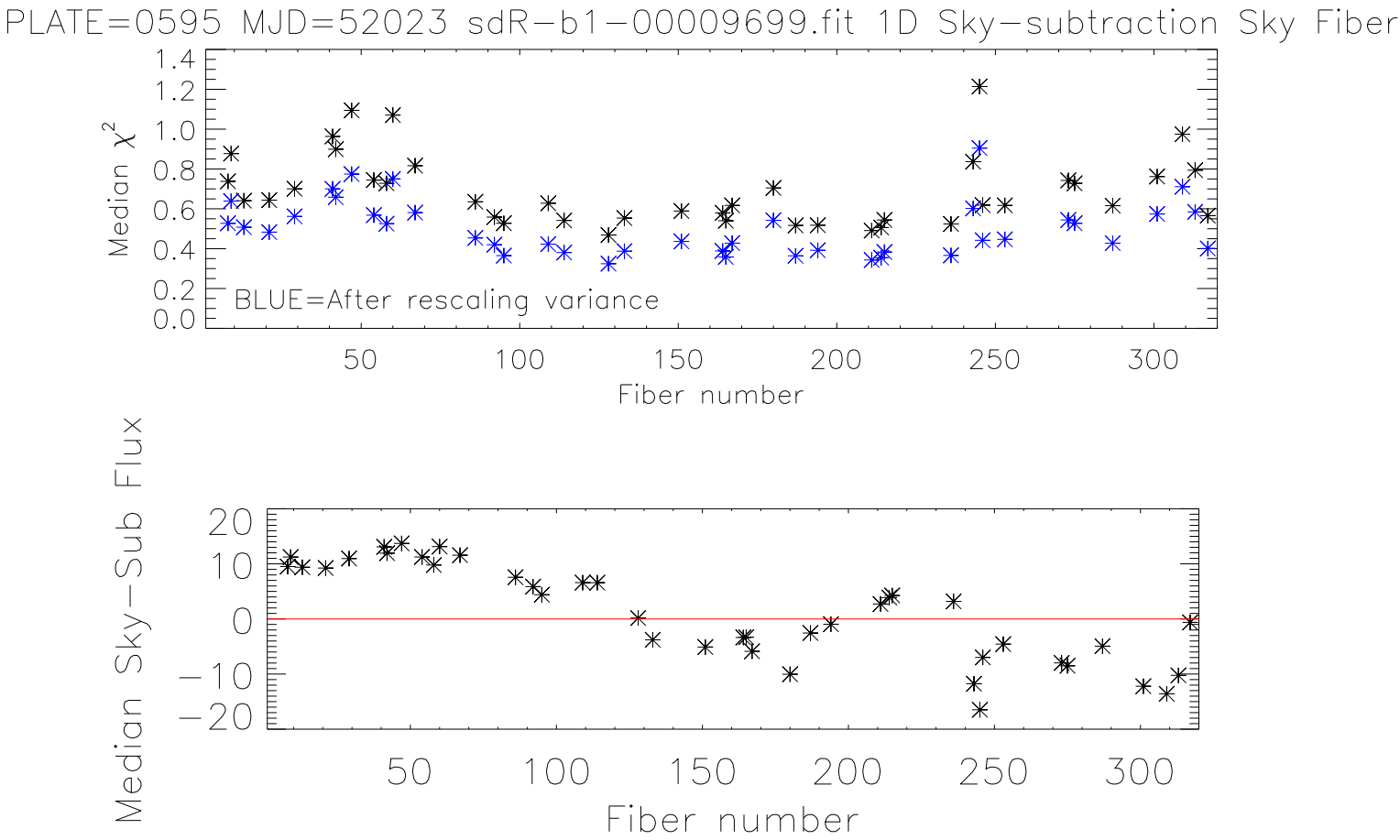

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

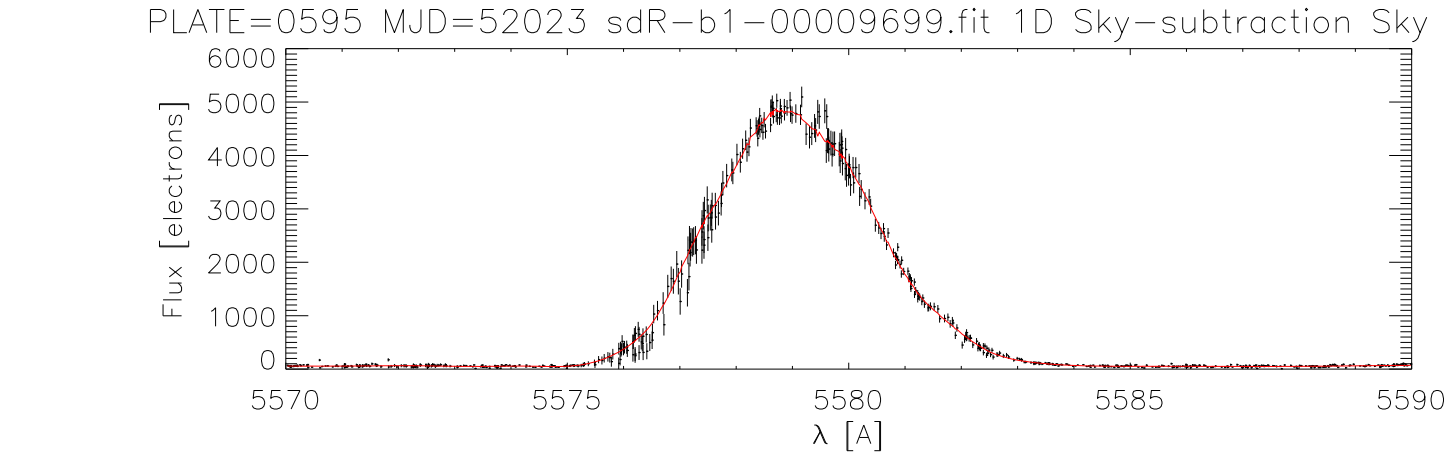

4046.5600
nfib1 42
nfib2 42
stdev 0.173
extra −0.20
4358.3300
nfib1 43
nfib2 43
stdev 0.095
extra −0.14
5460.9400
nfib1 42
nfib2 42
stdev 0.050
extra −0.15
5577.3390
nfib1 43
nfib2 43
stdev 0.034
extra −0.10
5889.9500
nfib1 42
nfib2 42
stdev 0.029
extra −0.06
5895.9240
nfib1 43
nfib2 43
stdev 0.044
extra −0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

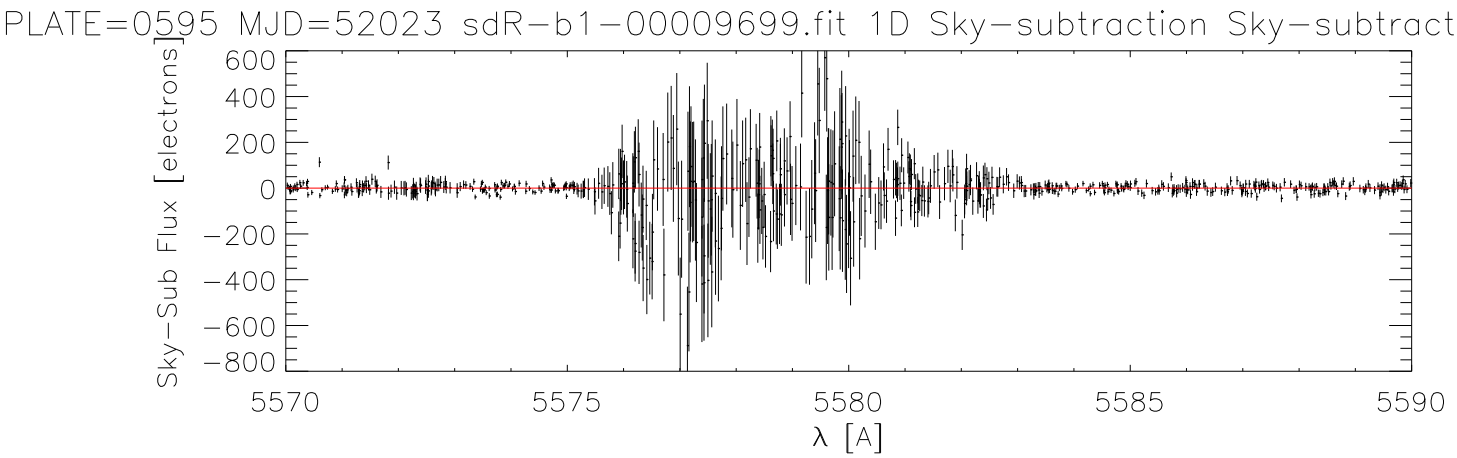

−0.05
−0.10
−0.15
−0.20
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

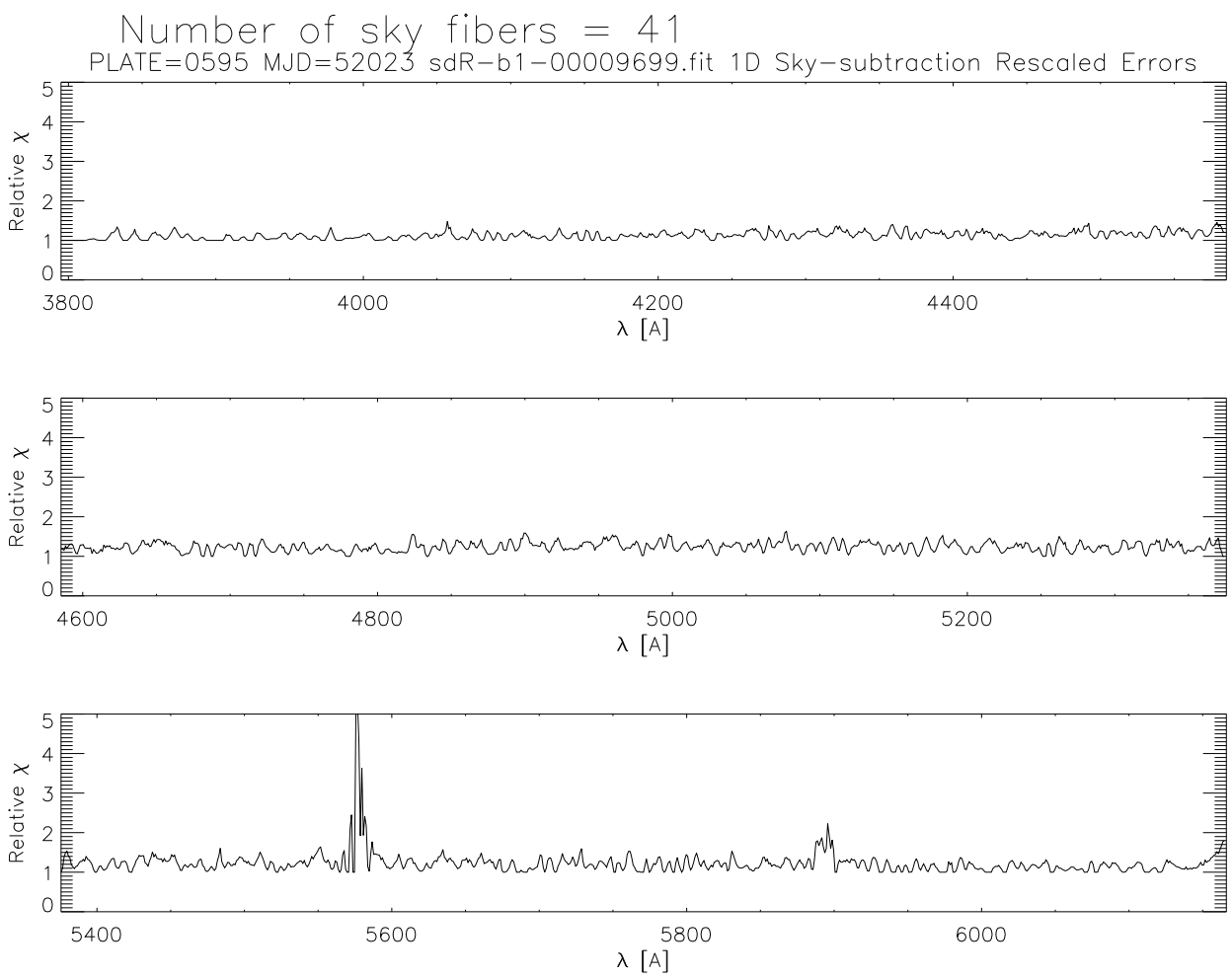

PLATE=0595 MJD=52023 Smooth superflat for sdR-b1-00009699.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
4000
4500
5000
5500
6000
Wavelength (Å)

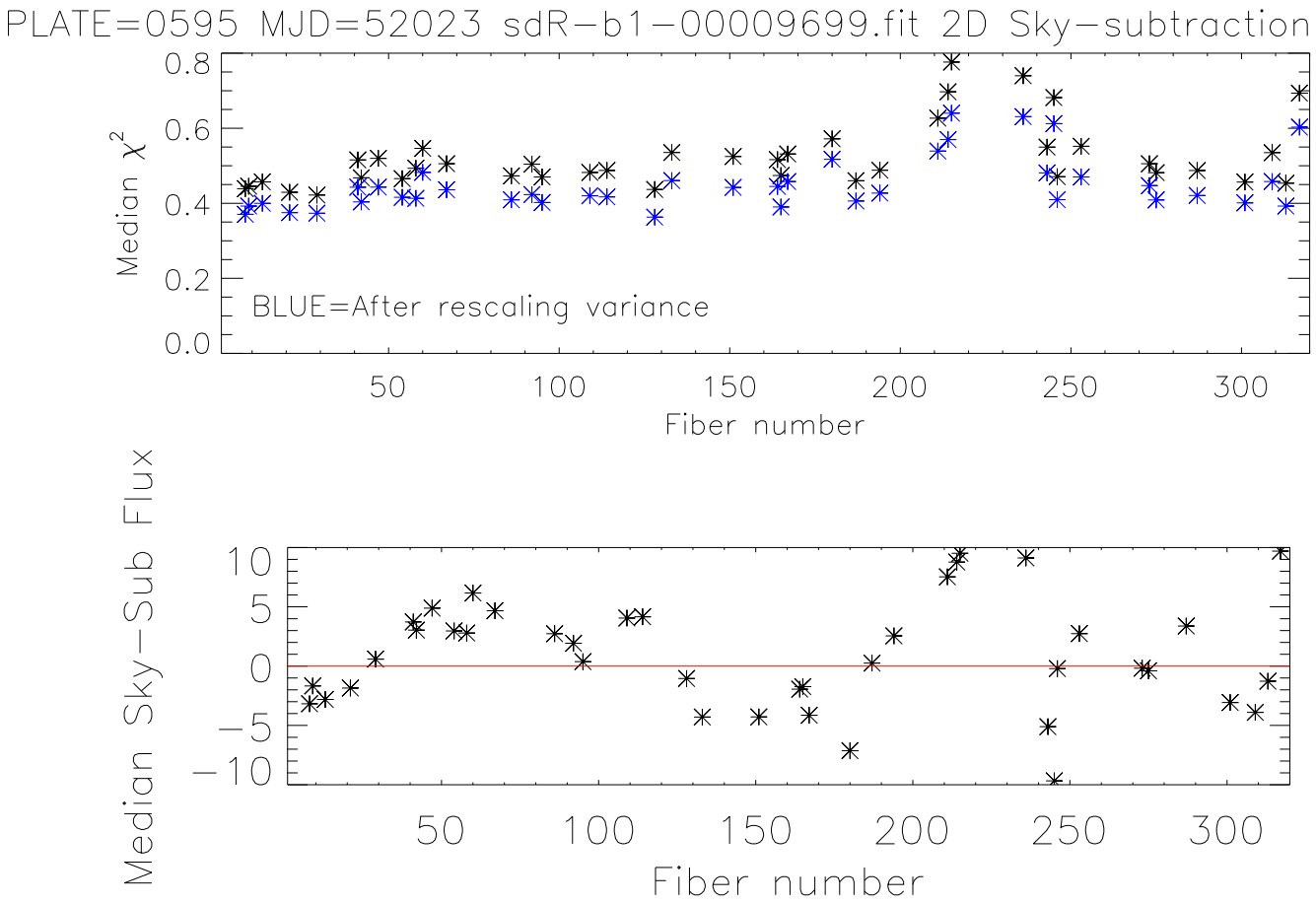
es= −0.0002

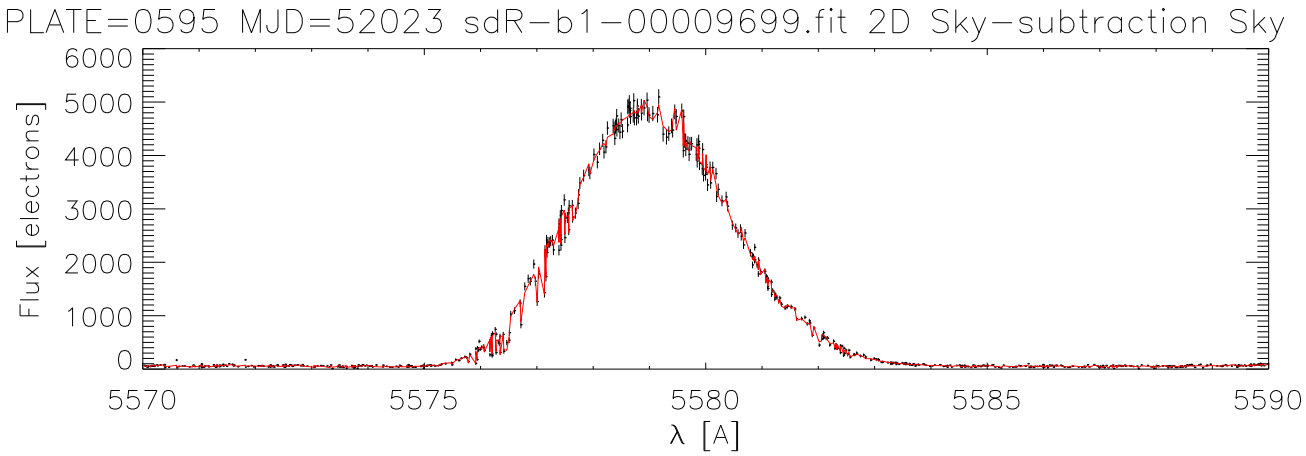

PLATE=0595 MJD=52023 sdR-b1-00009699.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

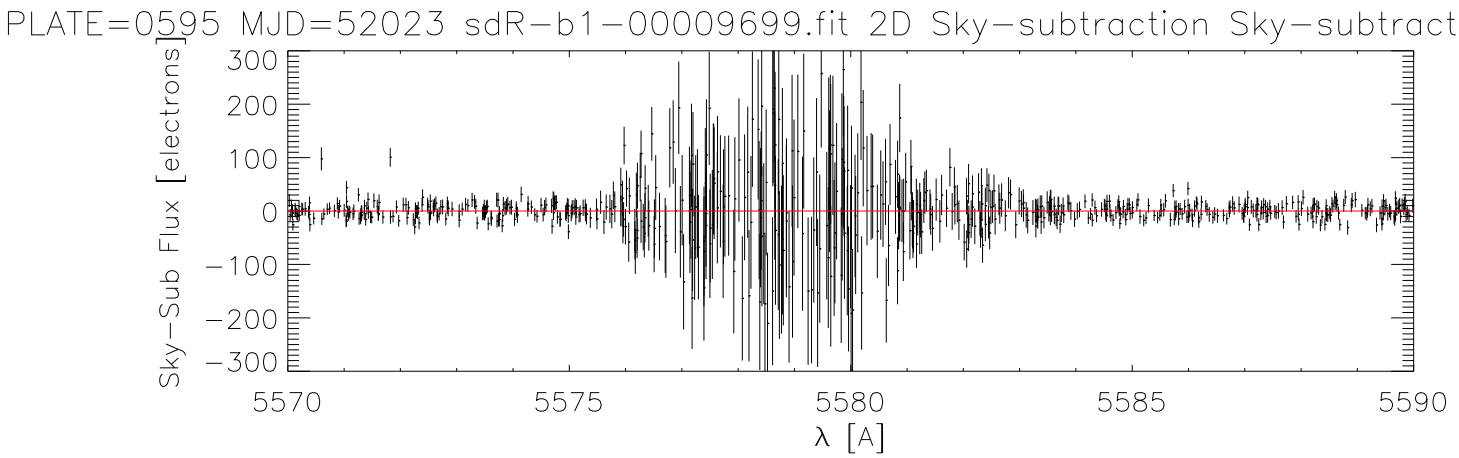

PLATE=0595 MJD=52023 sdR-b1-00009699.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

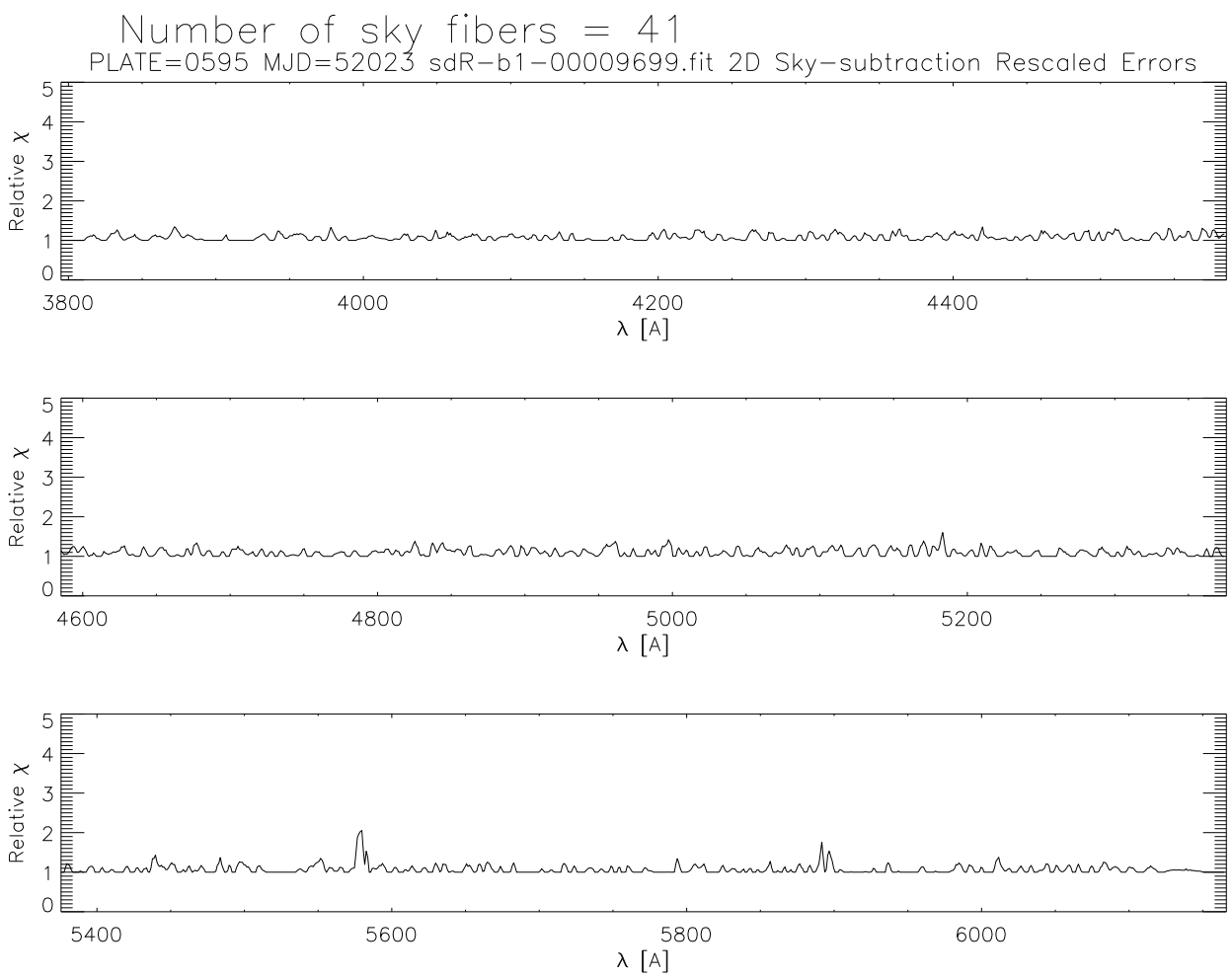

PLATE=0595 MJD=52023 sdR-b1-00009699.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
-800
5570
5575
5580
5585
5590
λ [A]

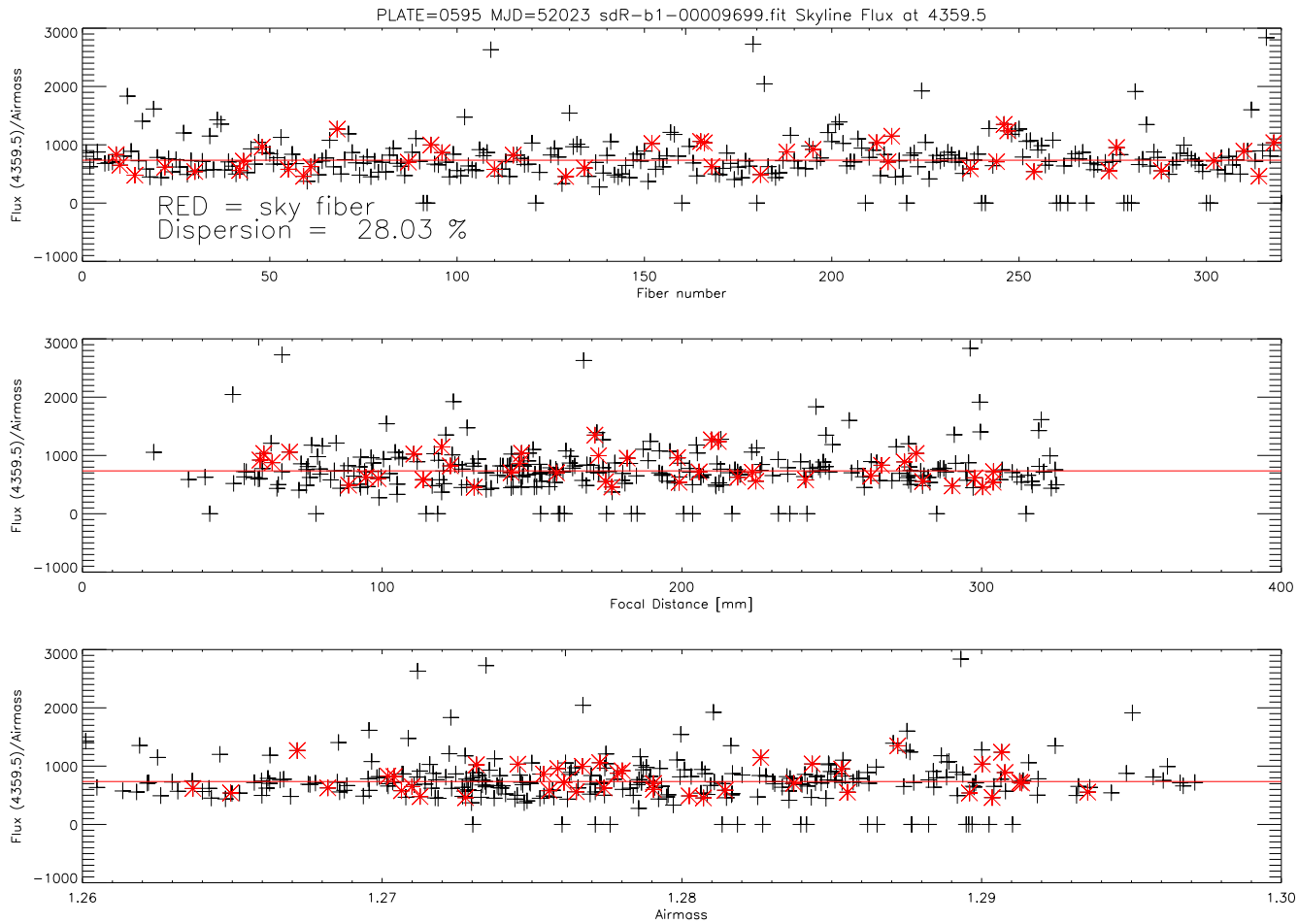

Number of sky fibers = 41
PLATE=0595 MJD=52023 sdR-b1-00009699.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

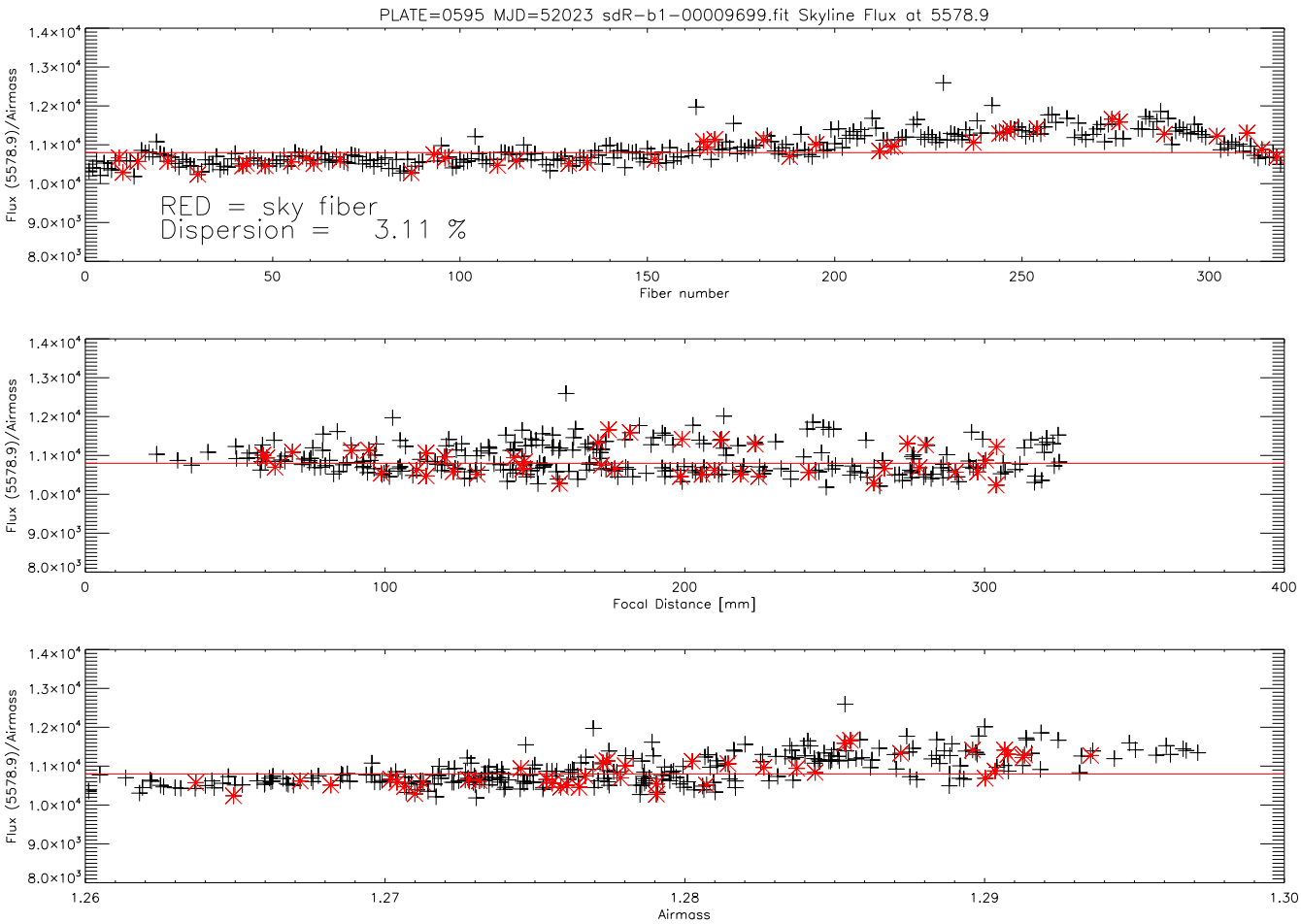

PLATE=0595 MJD=52023 sdR-b1-00009699.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

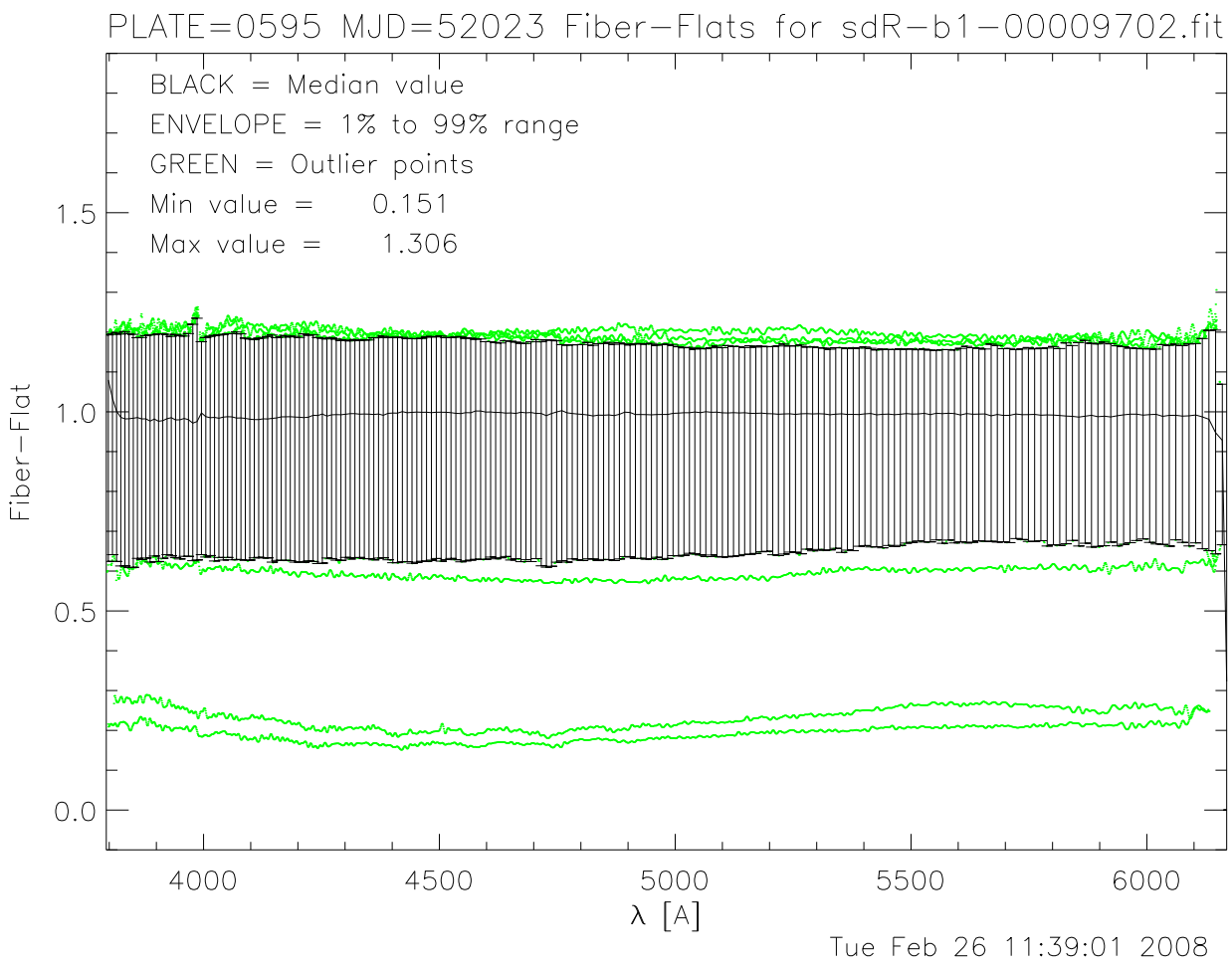

PLATE=0595 MJD=52023 sdR-b1-00009699.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

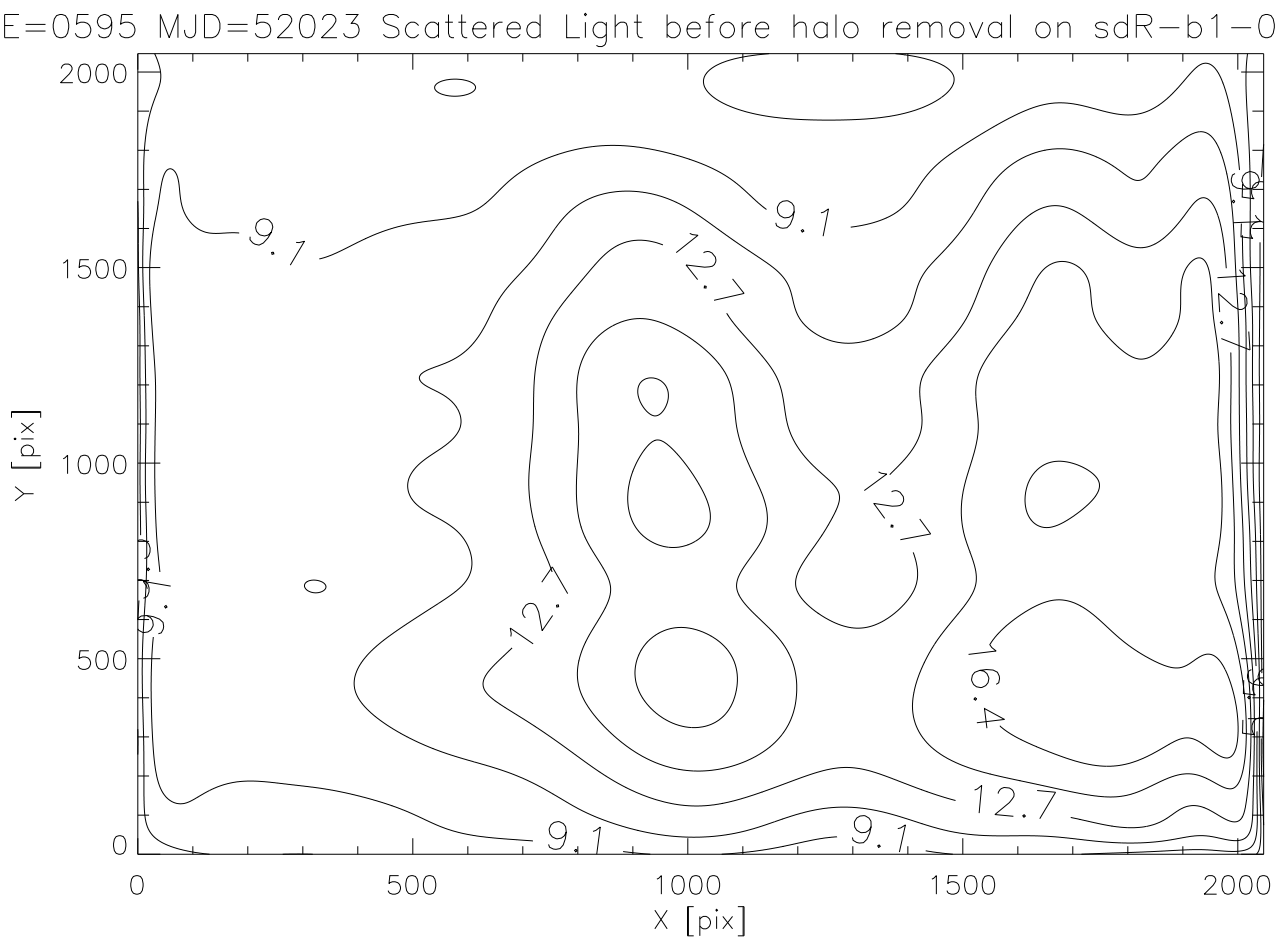

PLATE=0595 MJD=52023 sdR-b1-00009699.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

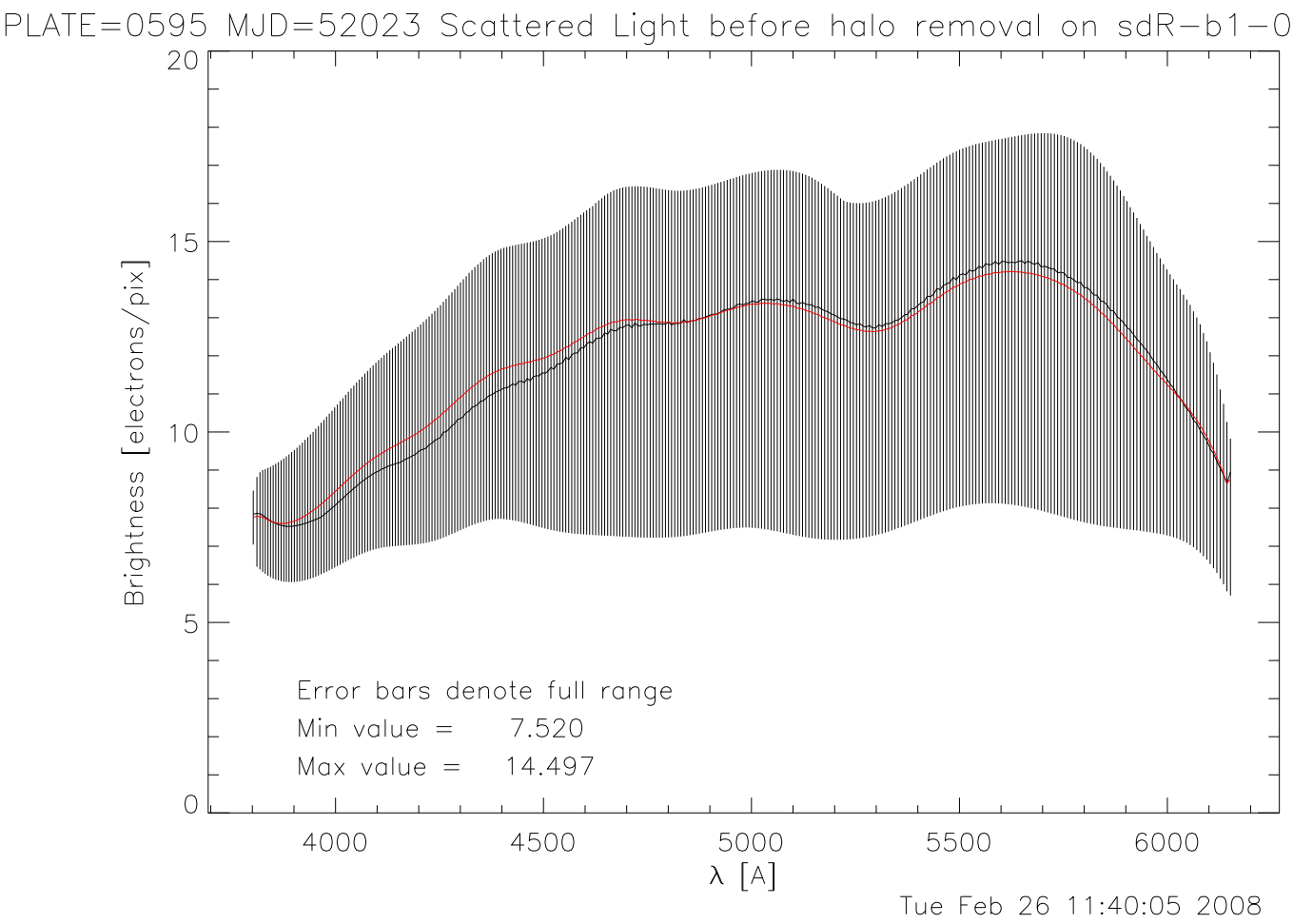

Number of sky fibers = 41
PLATE=0595 MJD=52023 sdR-b1-00009699.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

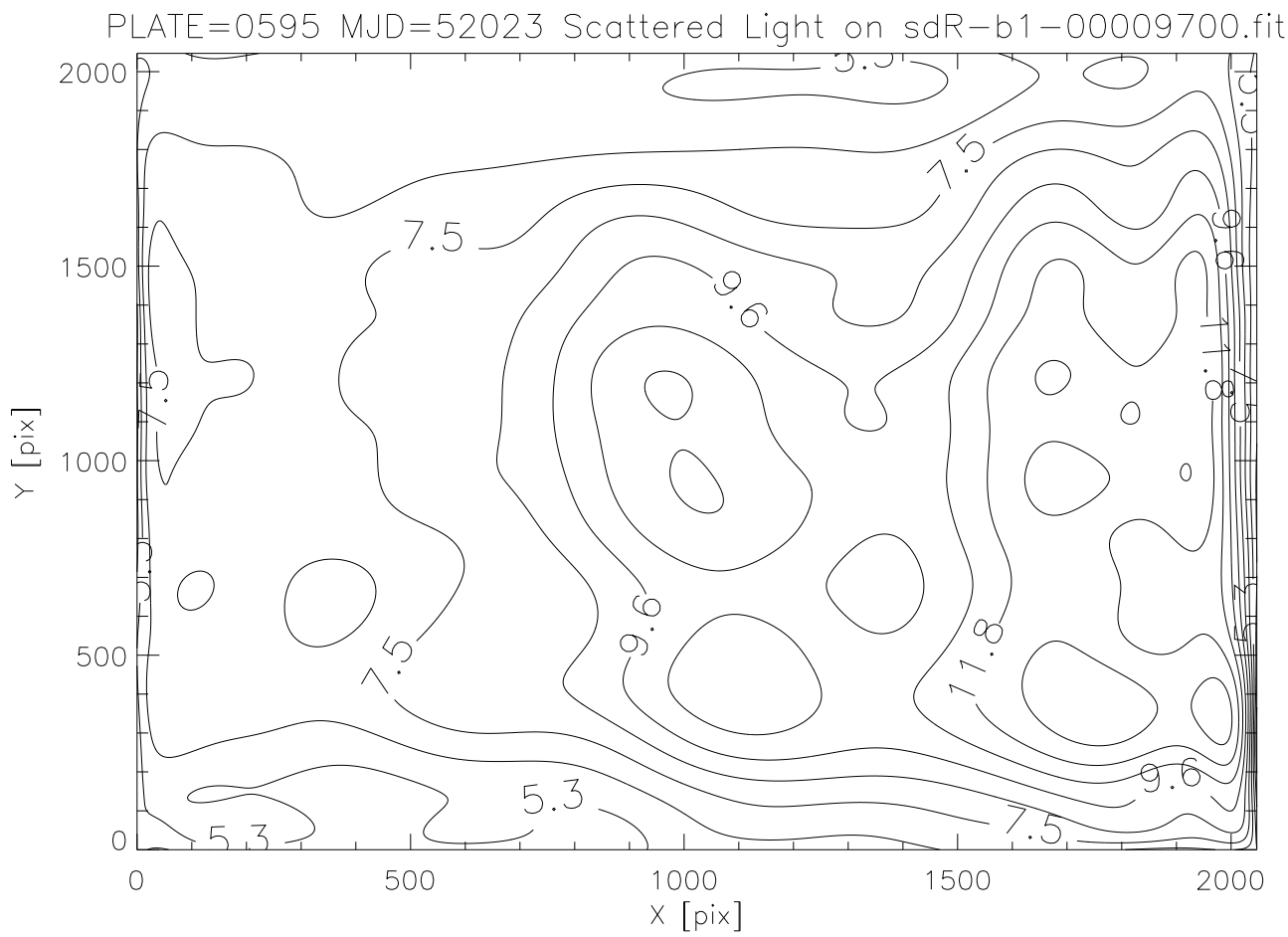

PLATE=0595 MJD=52023 sdR-b1-00009699.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 28.03 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

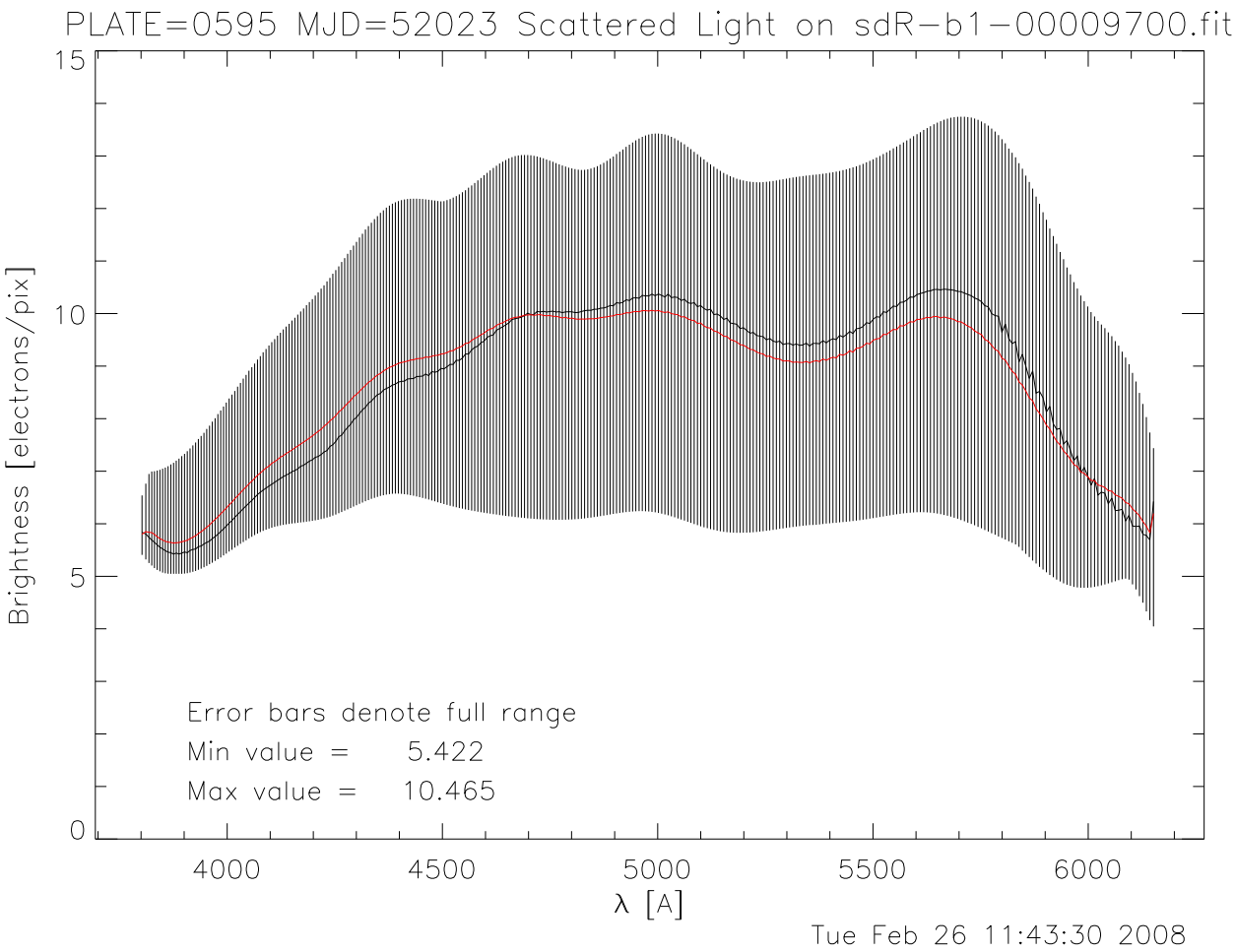

PLATE=0595 MJD=52023 sdR-b1-00009699.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 3.11 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass


PLATE=0595 MJD=52023 Fiber-Flats for sdR-b1-00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.151
Max value = 1.306
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 11:39:01 2008


PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR−b1−00009700.f
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
12.7
16.4
0


PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-b1-00009700.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.520
Max value = 14.497
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 11:40:05 2008


PLATE=0595 MJD=52023 Scattered Light on sdR-b1-00009700.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.3
7.5
9.6
11.8


PLATE=0595 MJD=52023 Scattered Light on sdR-b1-00009700.fit
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 5.422
Max value = 10.465
4000
4500
5000
5500
6000
λ [A]
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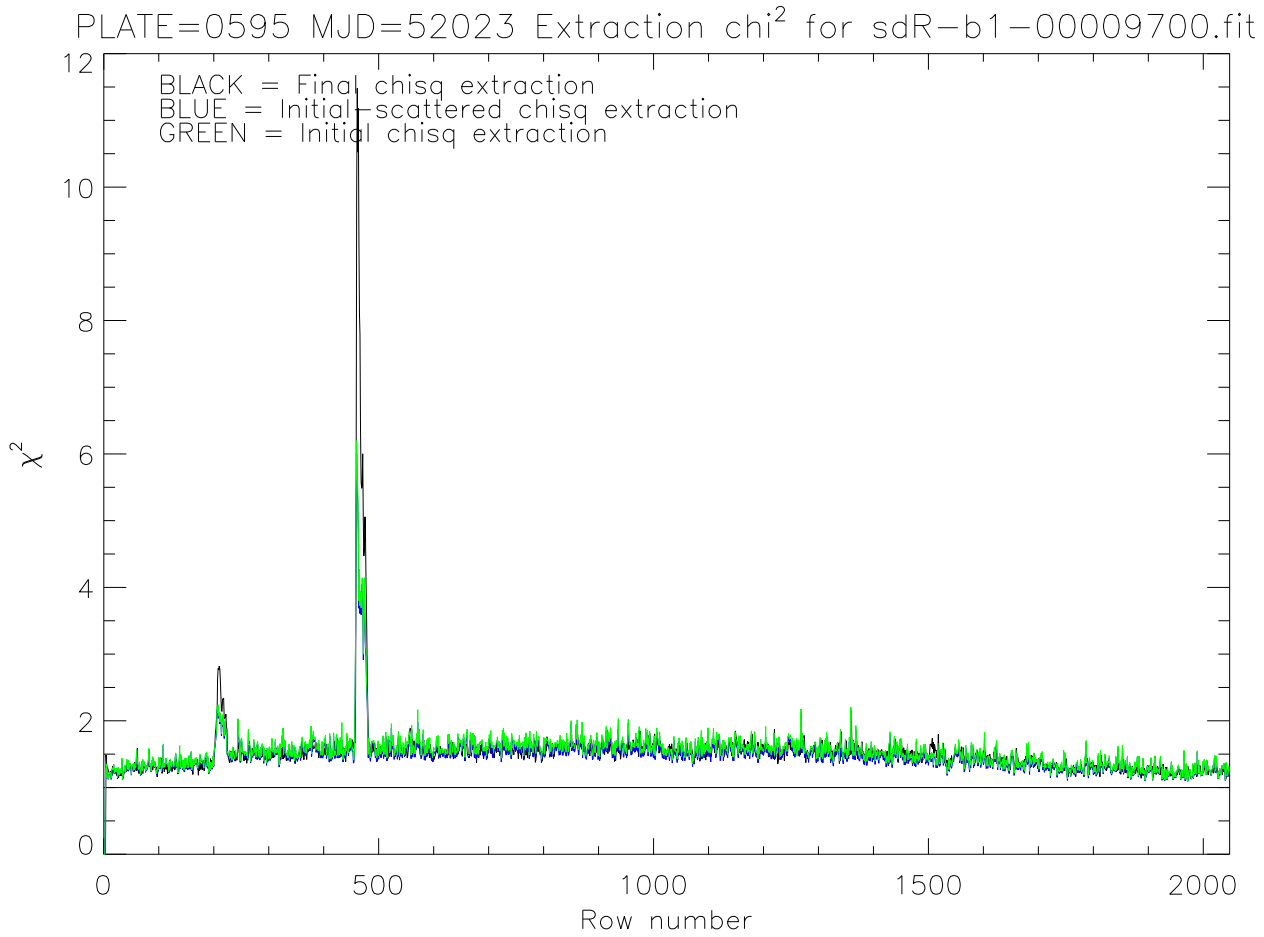
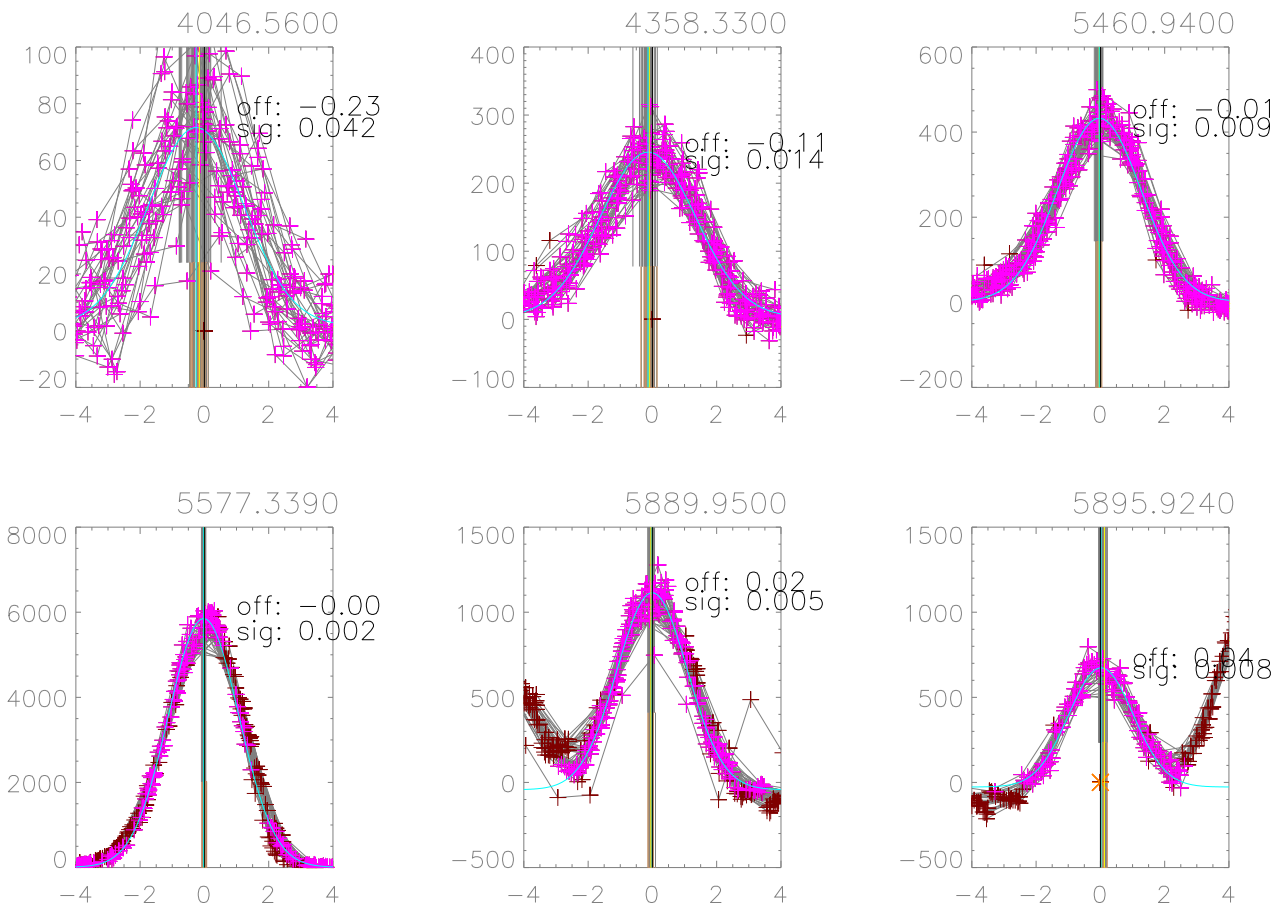
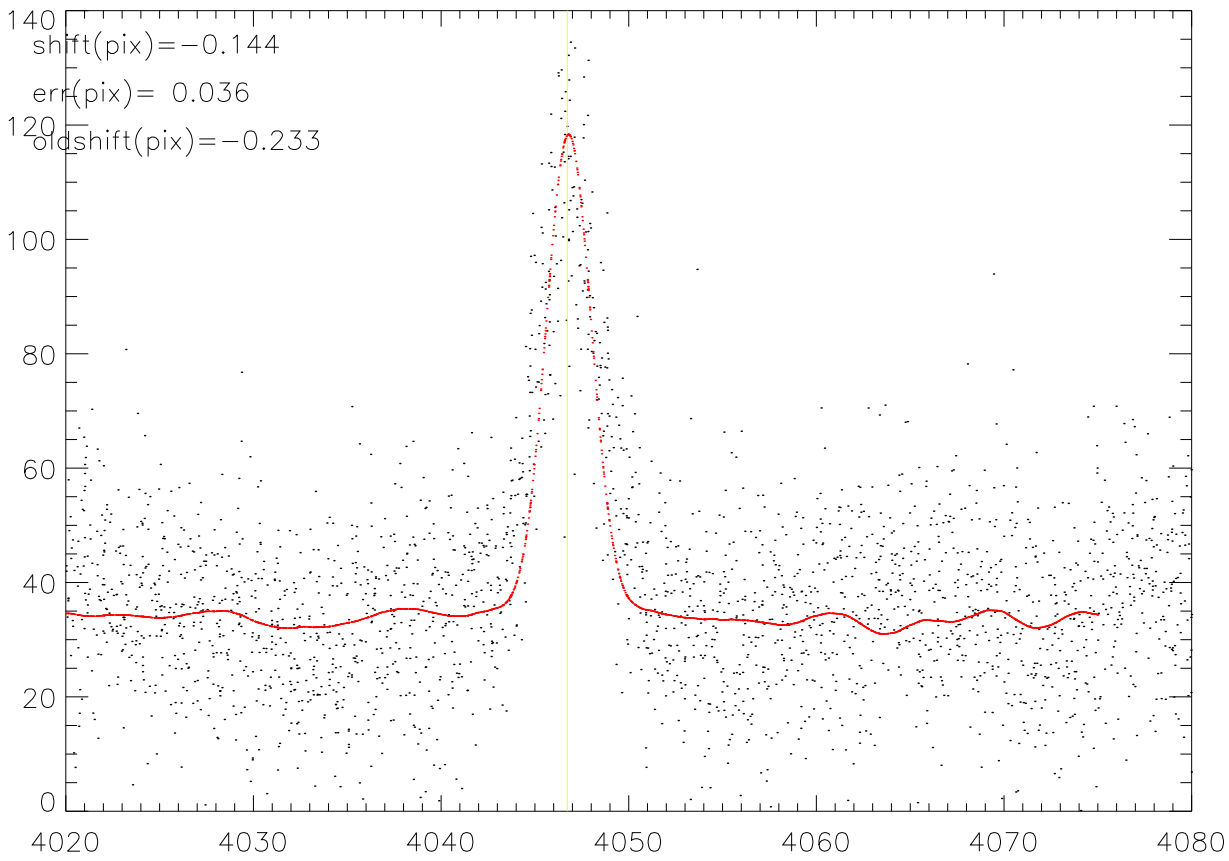
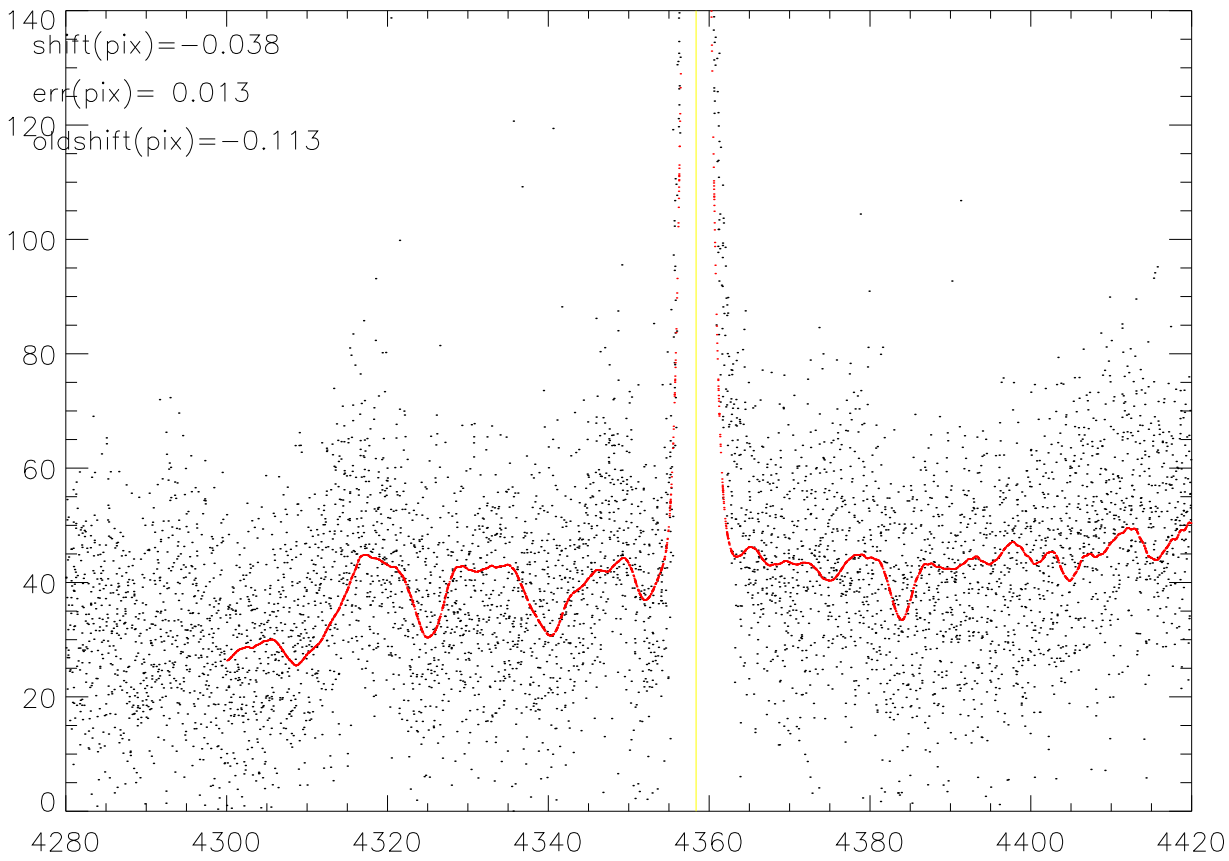
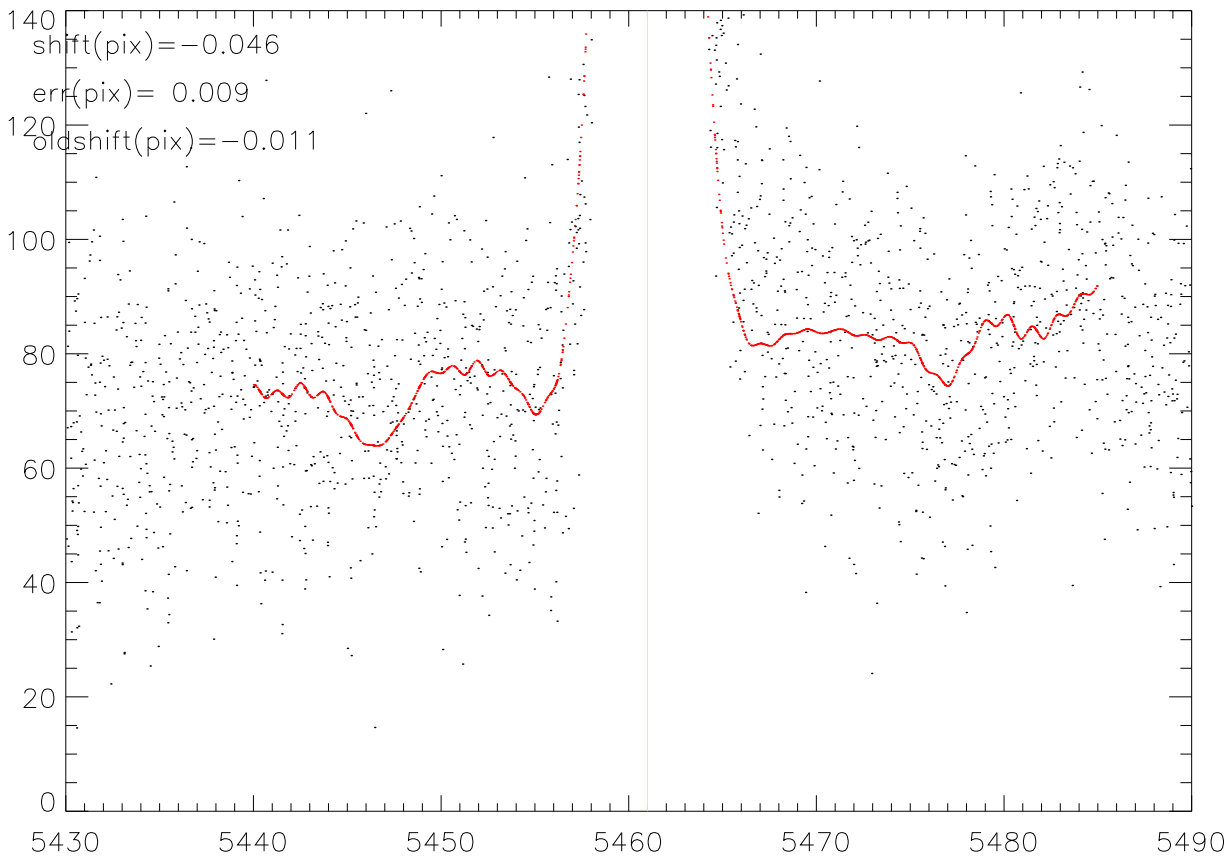
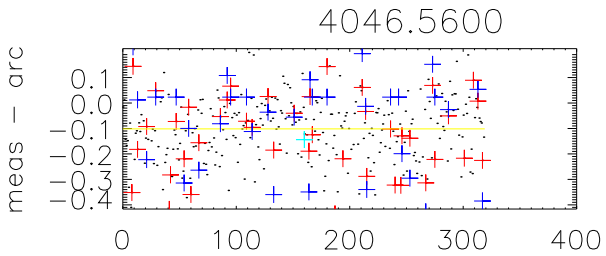

PLATE=0595 MJD=52023 Extraction chi^2 for sdR-b1-00009700.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
0
500
1000
1500
2000
Row number

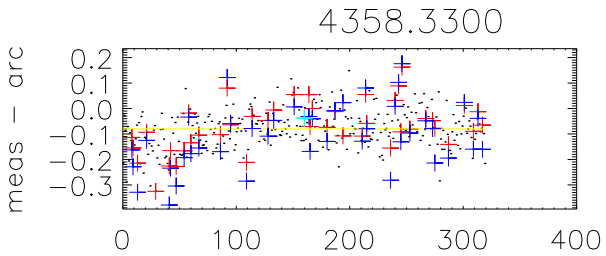

4046.5600
off: −0.23
sig: 0.042
4358.3300
off: −0.11
sig: 0.014
5460.9400
off: −0.01
sig: 0.009
5577.3390
off: −0.00
sig: 0.002
5889.9500
off: 0.02
sig: 0.005
5895.9240
off: 0.04
sig: 0.008

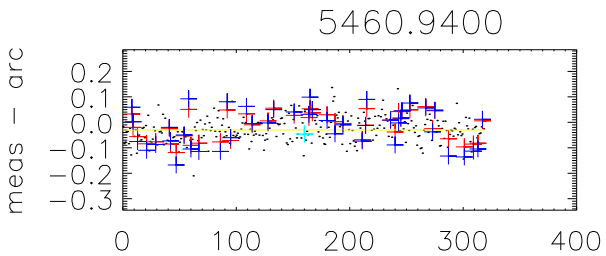

shift(pix)=−0.144
err(pix)= 0.036
oldshift(pix)=−0.233
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

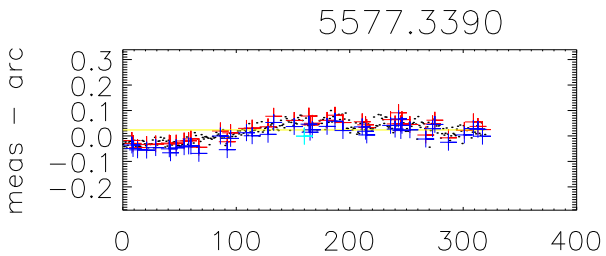

shift(pix)=−0.038
err(pix)= 0.013
oldshift(pix)=−0.113
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

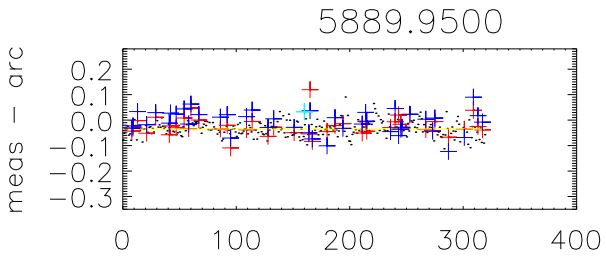

shift(pix)=−0.046
err(pix)= 0.009
oldshift(pix)=−0.011
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

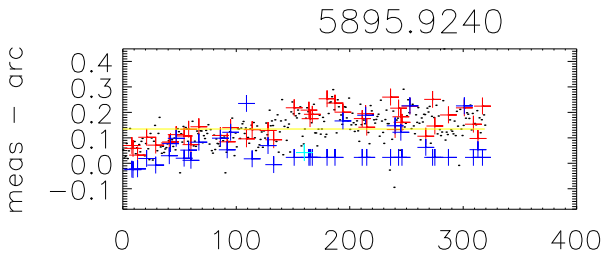

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

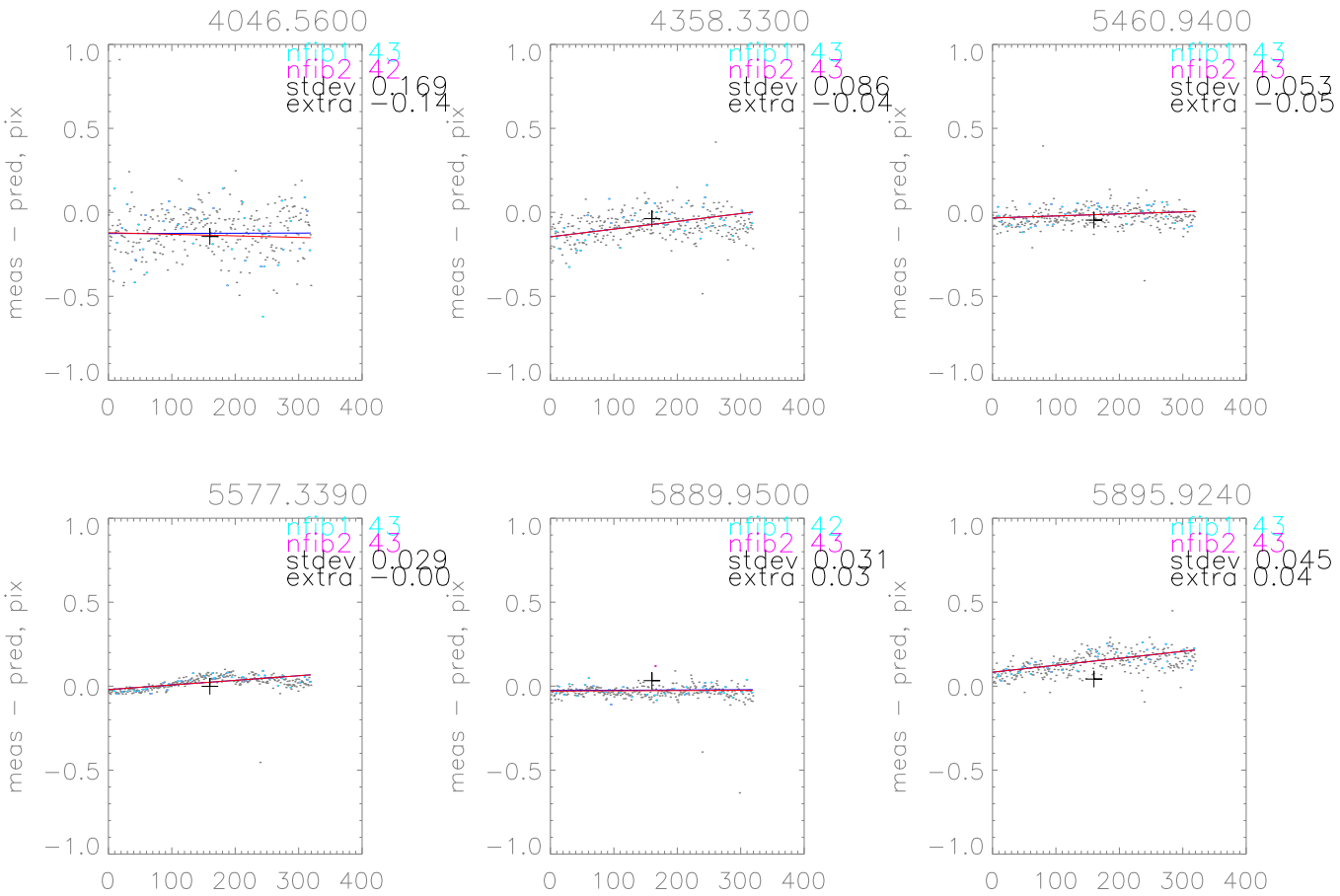

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

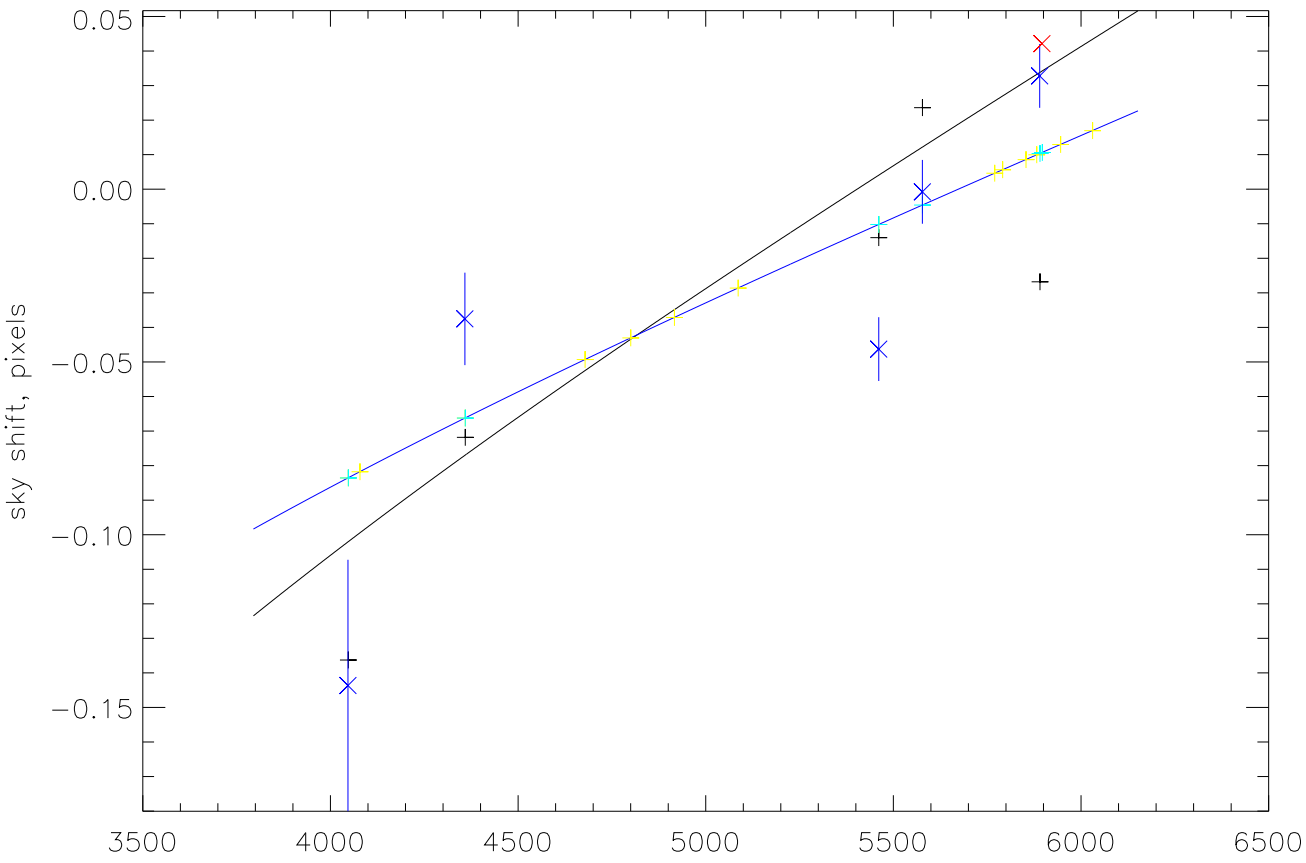

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

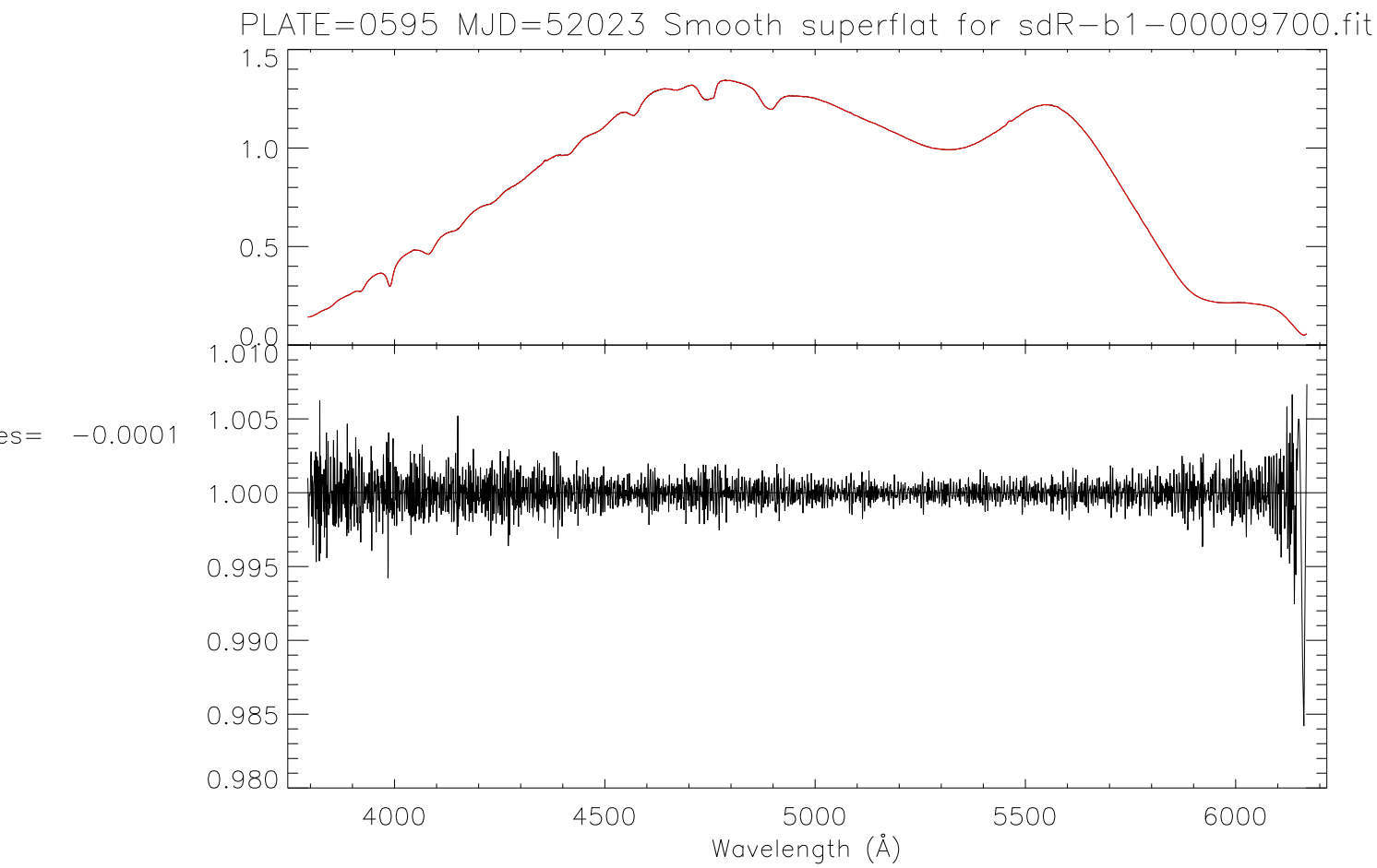

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

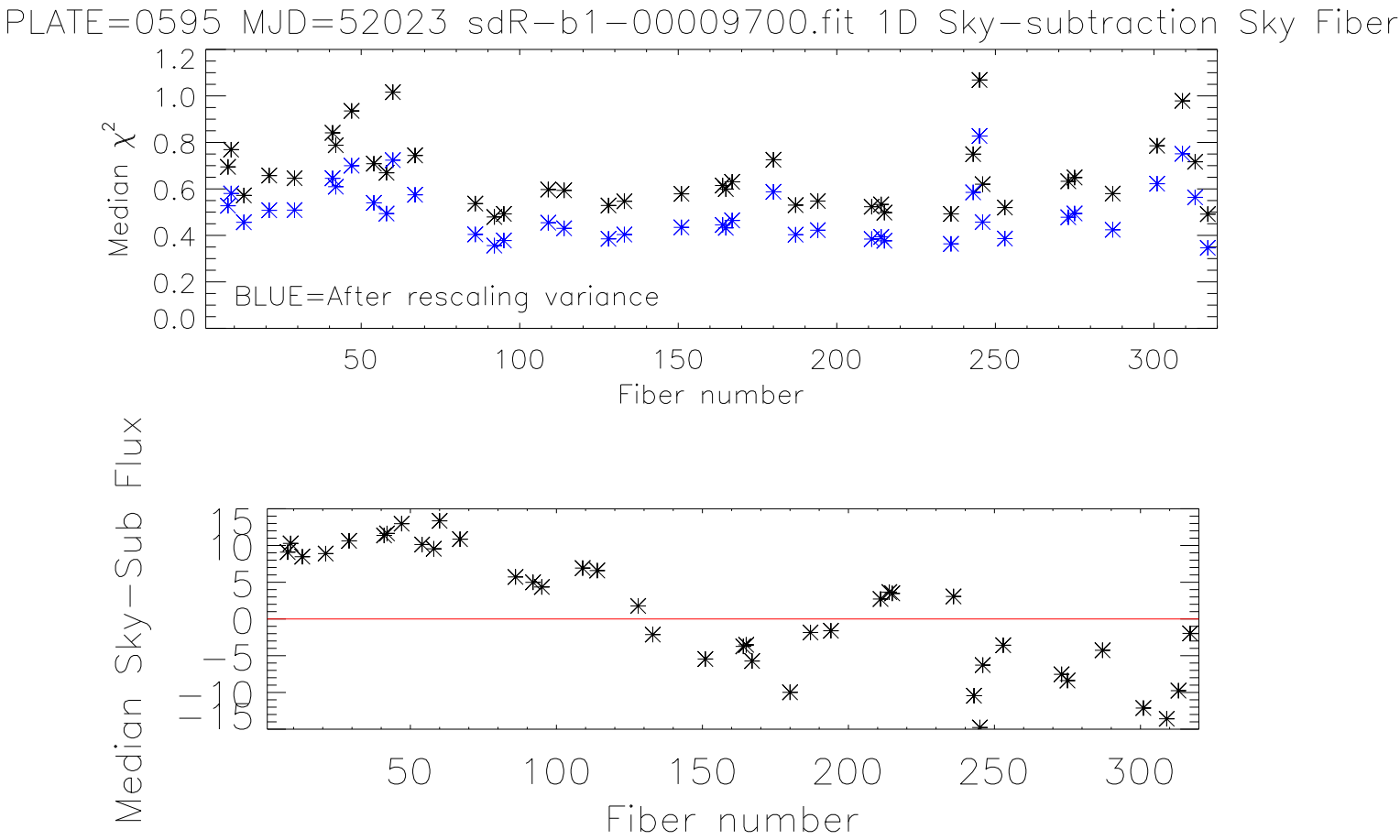

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

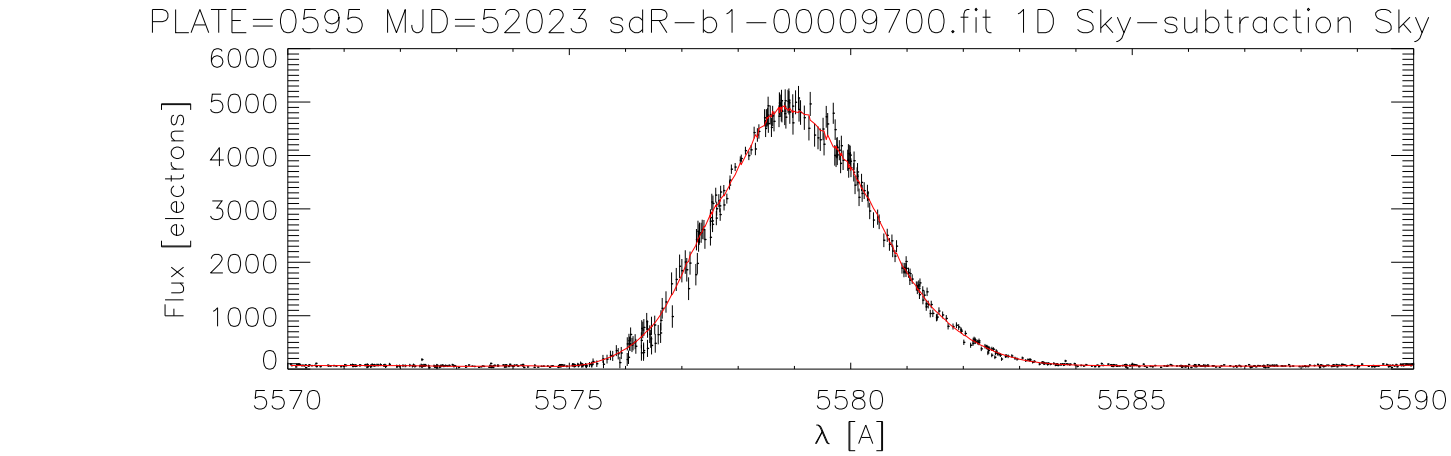

4046.5600
nfib1 43
nfib2 42
stdev 0.169
extra −0.14
4358.3300
nfib1 43
nfib2 43
stdev 0.086
extra −0.04
5460.9400
nfib1 43
nfib2 43
stdev 0.053
extra −0.05
5577.3390
nfib1 43
nfib2 43
stdev 0.029
extra −0.00
5889.9500
nfib1 42
nfib2 43
stdev 0.031
extra 0.03
5895.9240
nfib1 43
nfib2 43
stdev 0.045
extra 0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

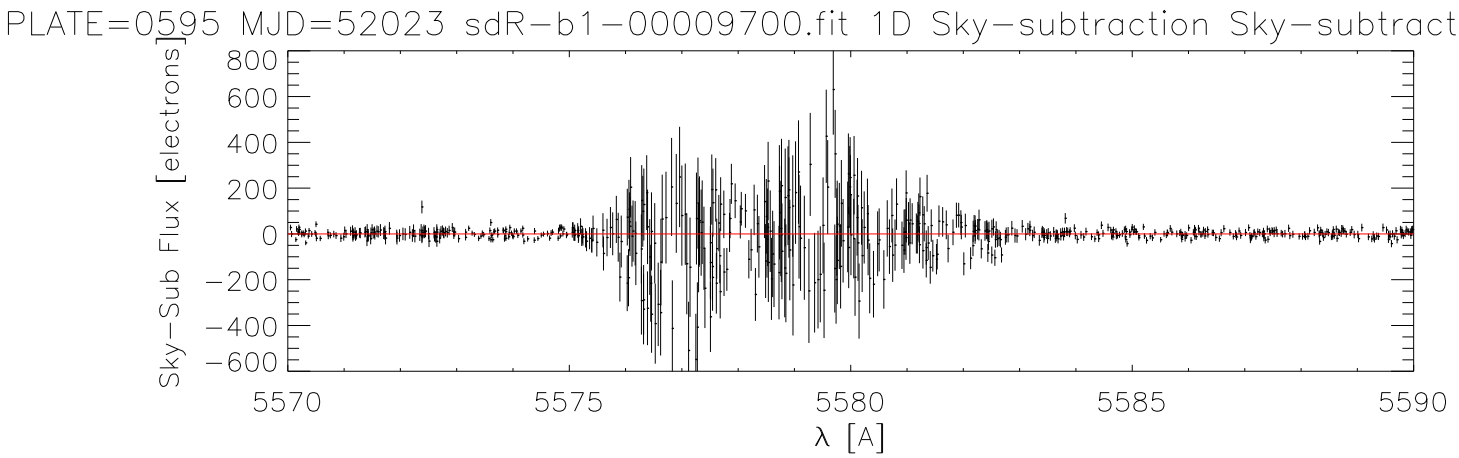

0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

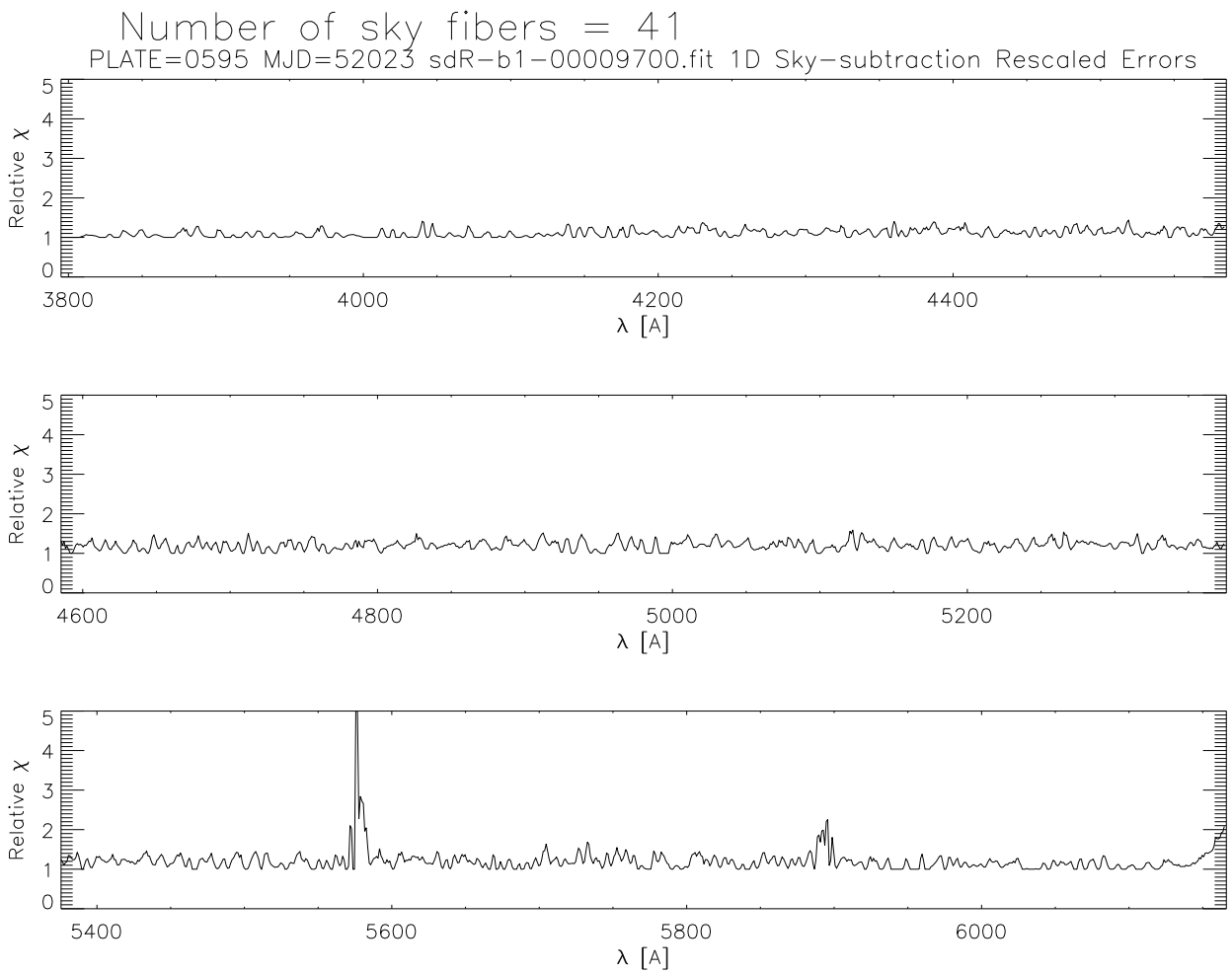

PLATE=0595 MJD=52023 Smooth superflat for sdR-b1-00009700.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
4000
4500
5000
5500
6000
Wavelength (Å)

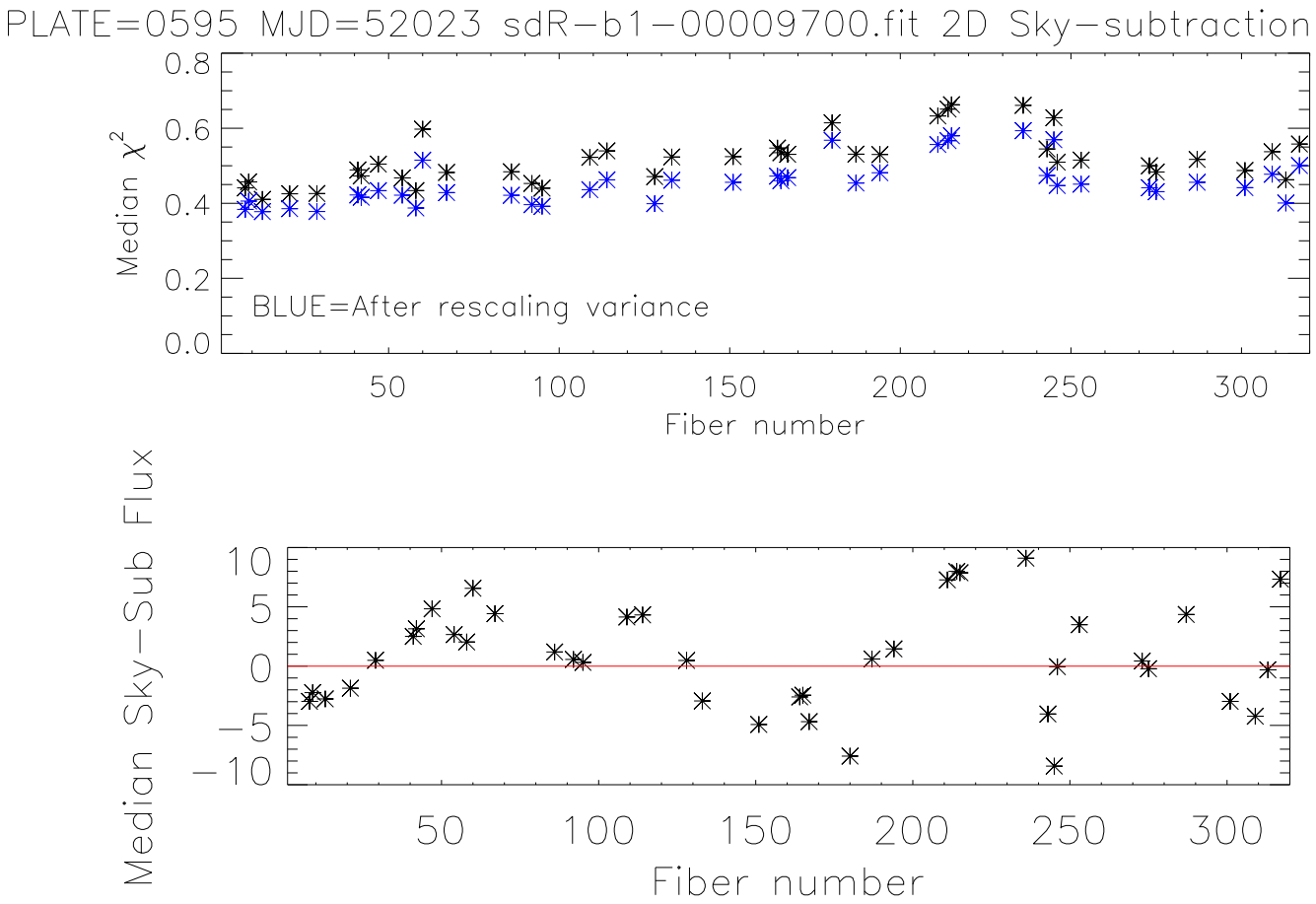
es= −0.0001

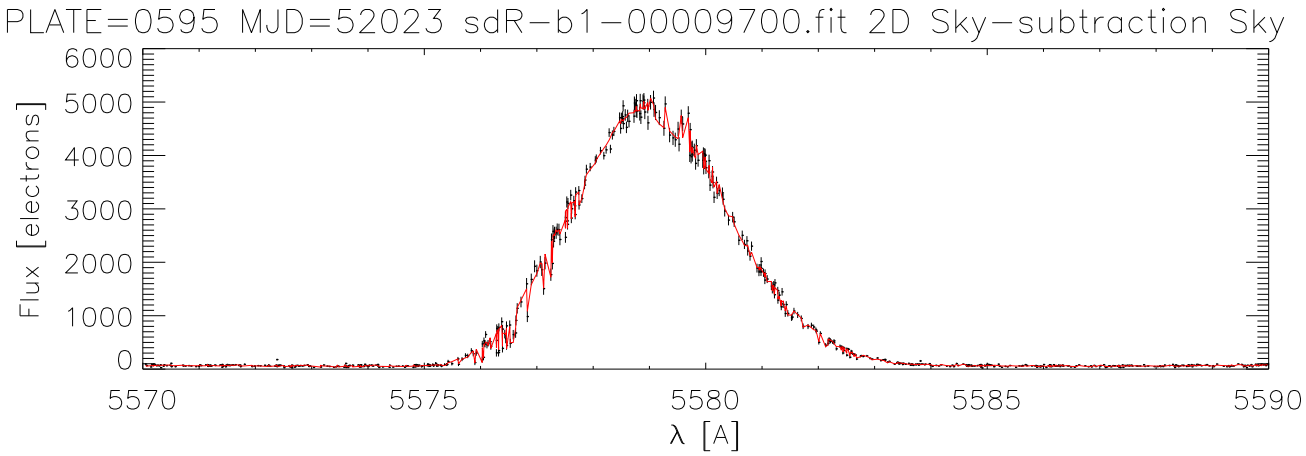

PLATE=0595 MJD=52023 sdR-b1-00009700.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

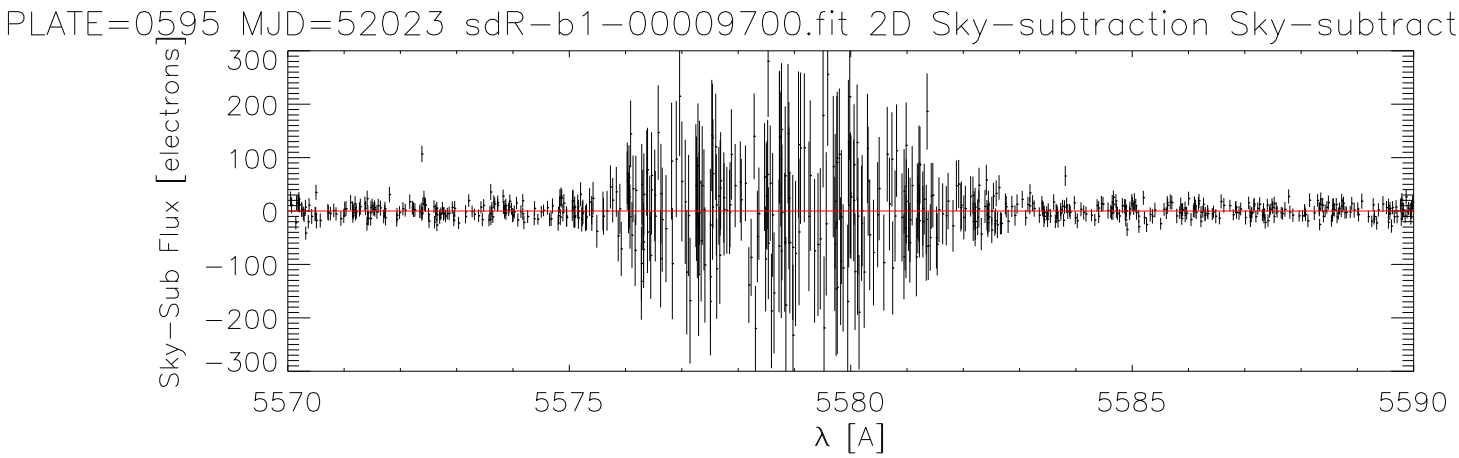

PLATE=0595 MJD=52023 sdR-b1-00009700.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

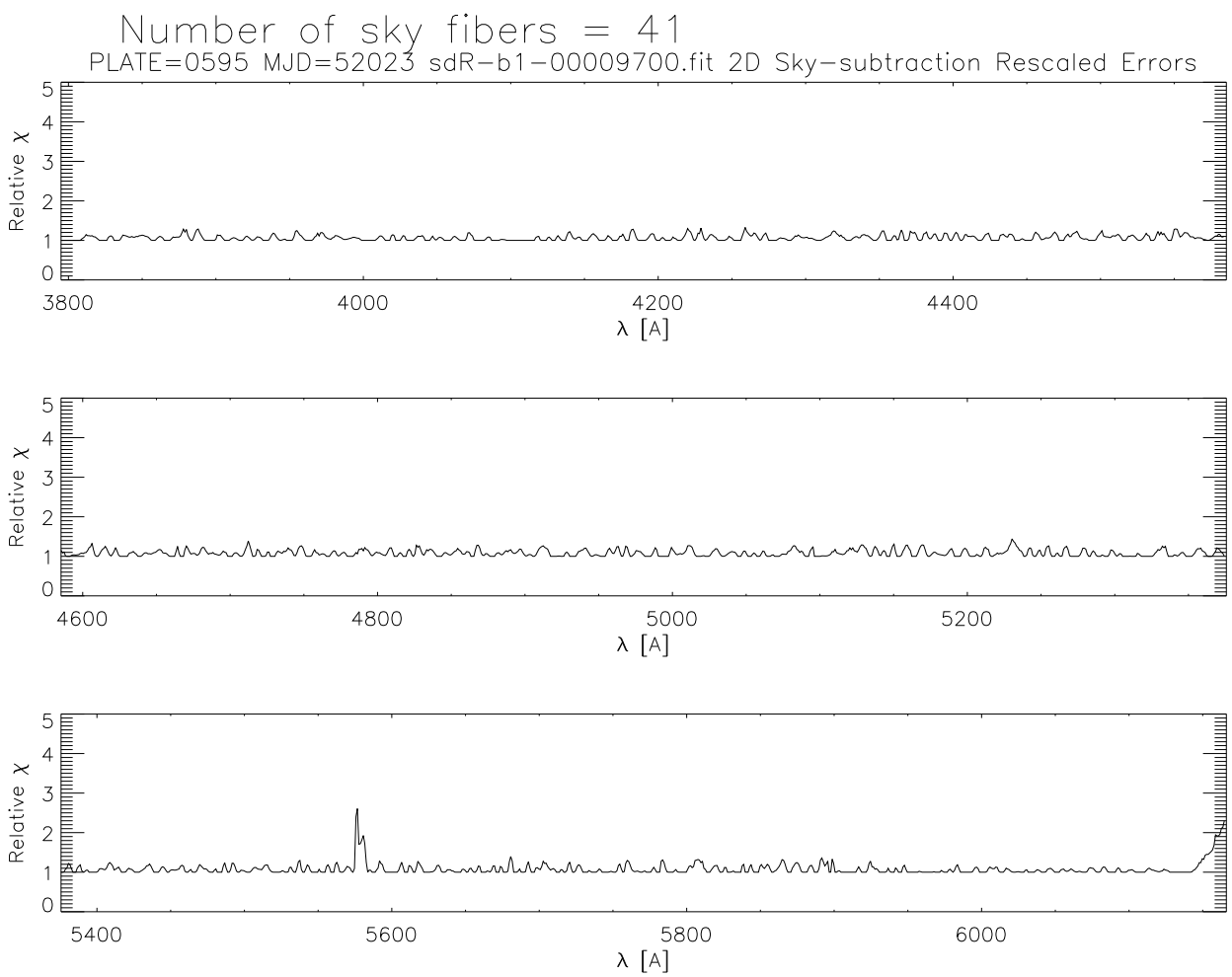

PLATE=0595 MJD=52023 sdR-b1-00009700.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

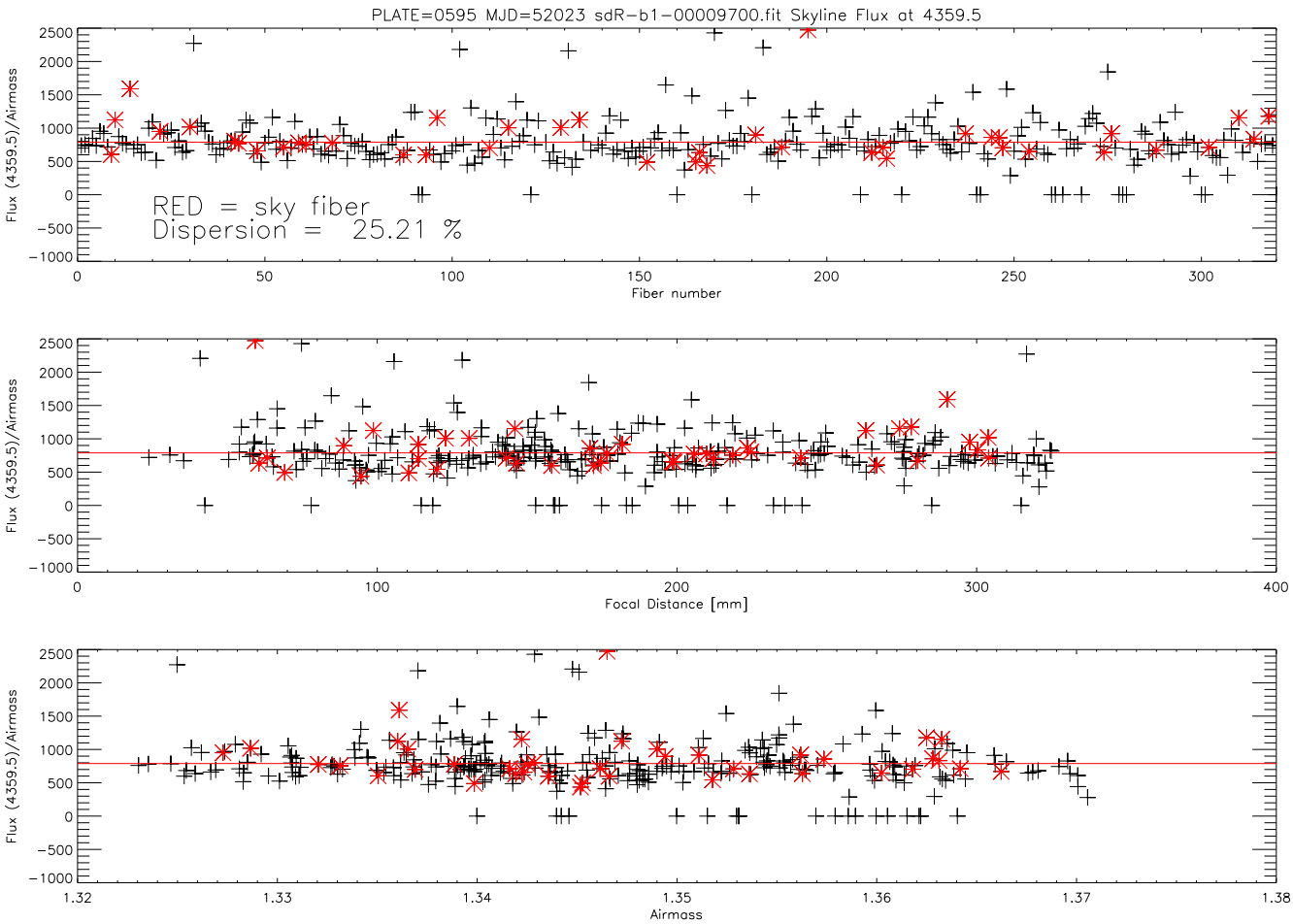

Number of sky fibers = 41
PLATE=0595 MJD=52023 sdR-b1-00009700.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

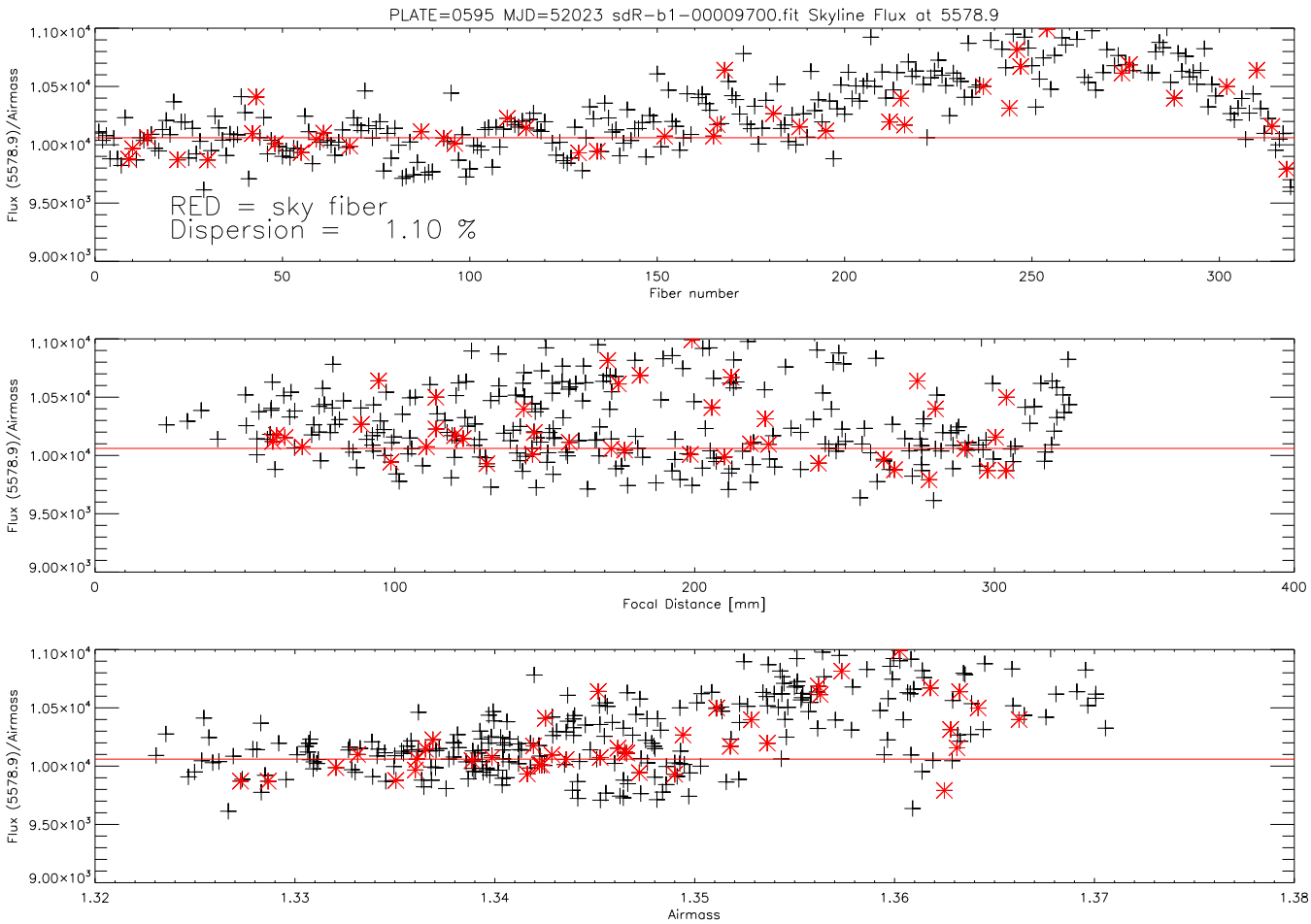

PLATE=0595 MJD=52023 sdR-b1-00009700.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

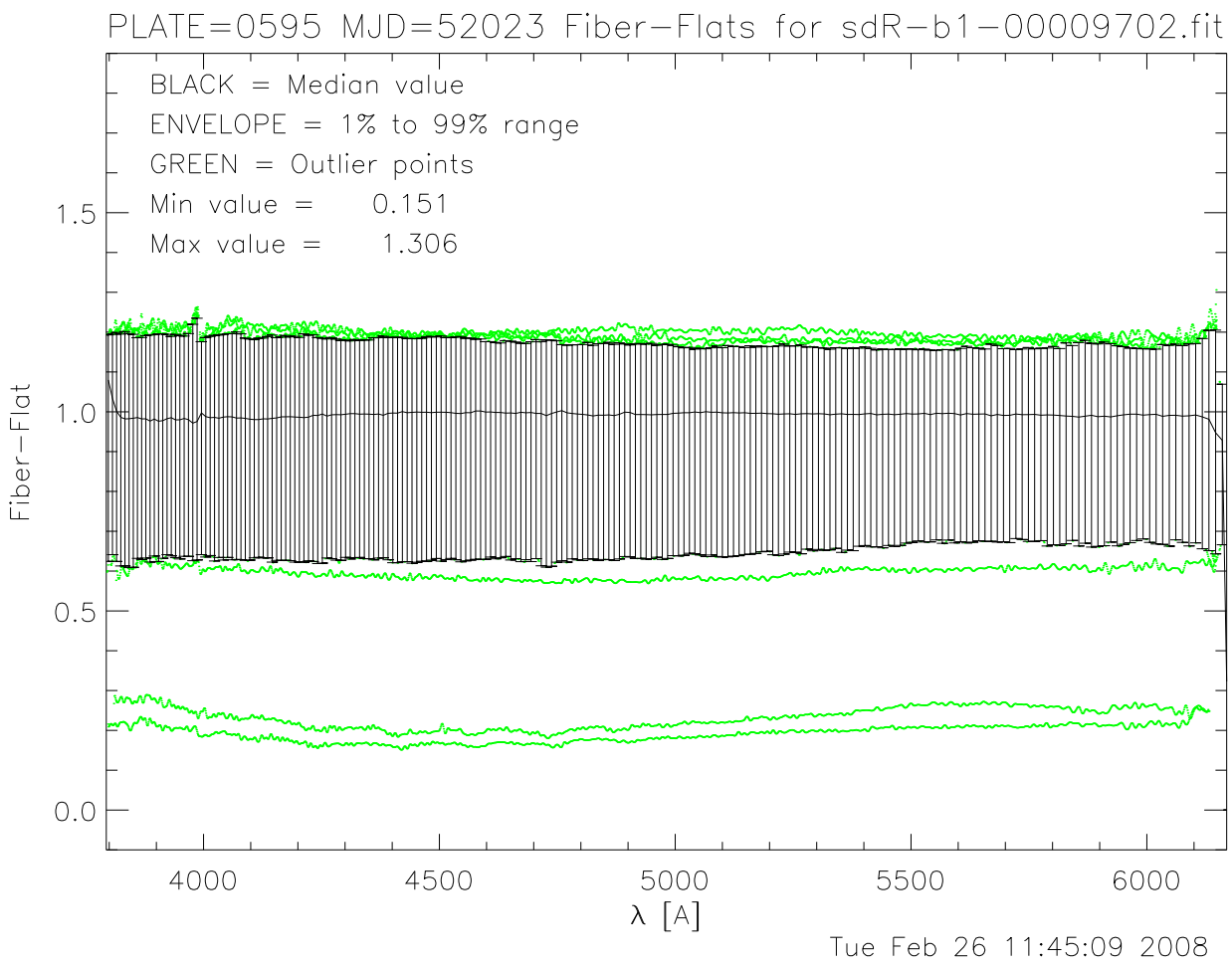

PLATE=0595 MJD=52023 sdR-b1-00009700.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=0595 MJD=52023 sdR-b1-00009700.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 = 41
PLATE=0595 MJD=52023 sdR-b1-00009700.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=0595 MJD=52023 sdR-b1-00009700.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 25.21 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass


PLATE=0595 MJD=52023 sdR-b1-00009700.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.10 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=0595 MJD=52023 Fiber-Flats for sdR-b1-00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.151
Max value = 1.306
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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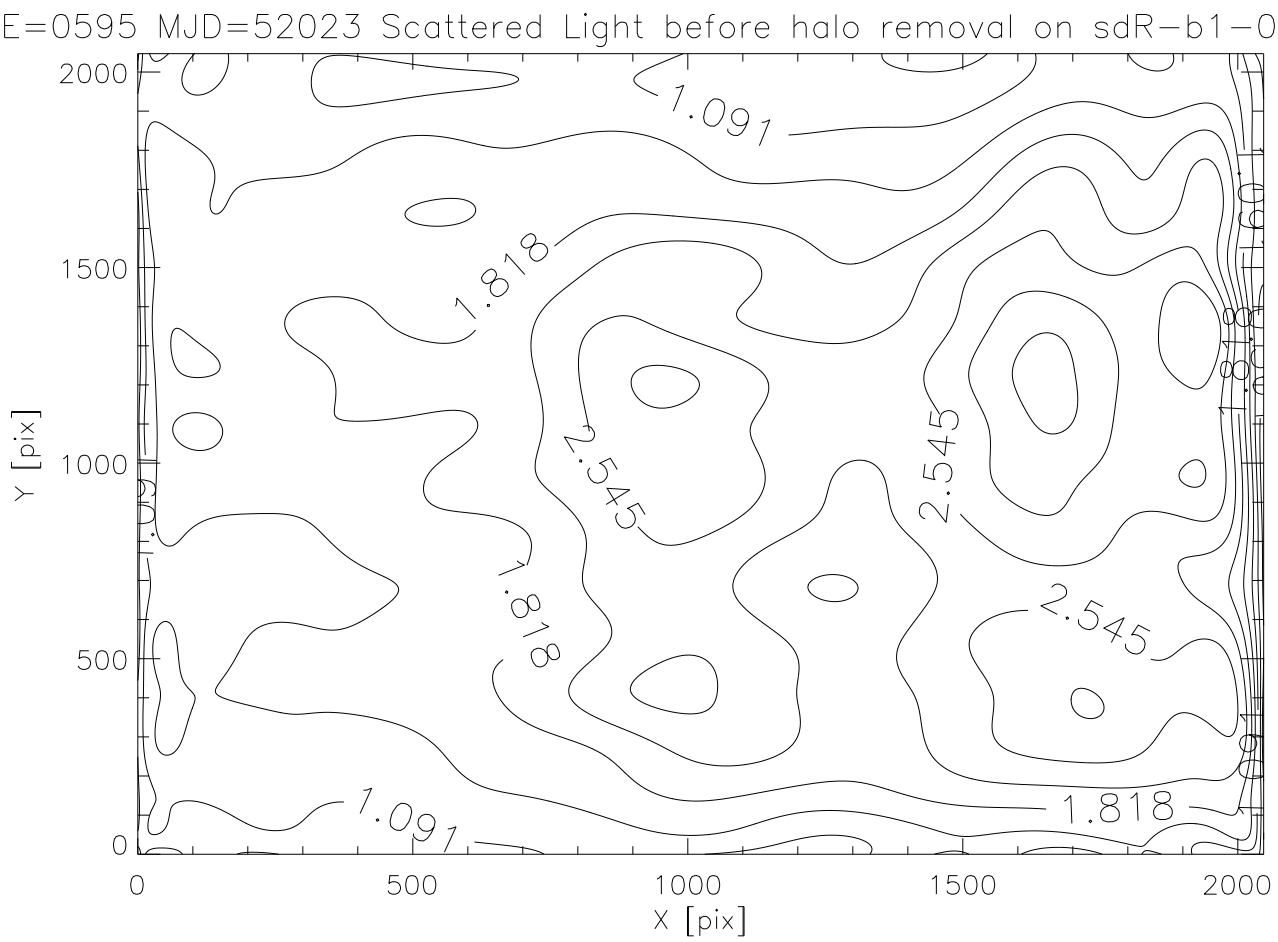
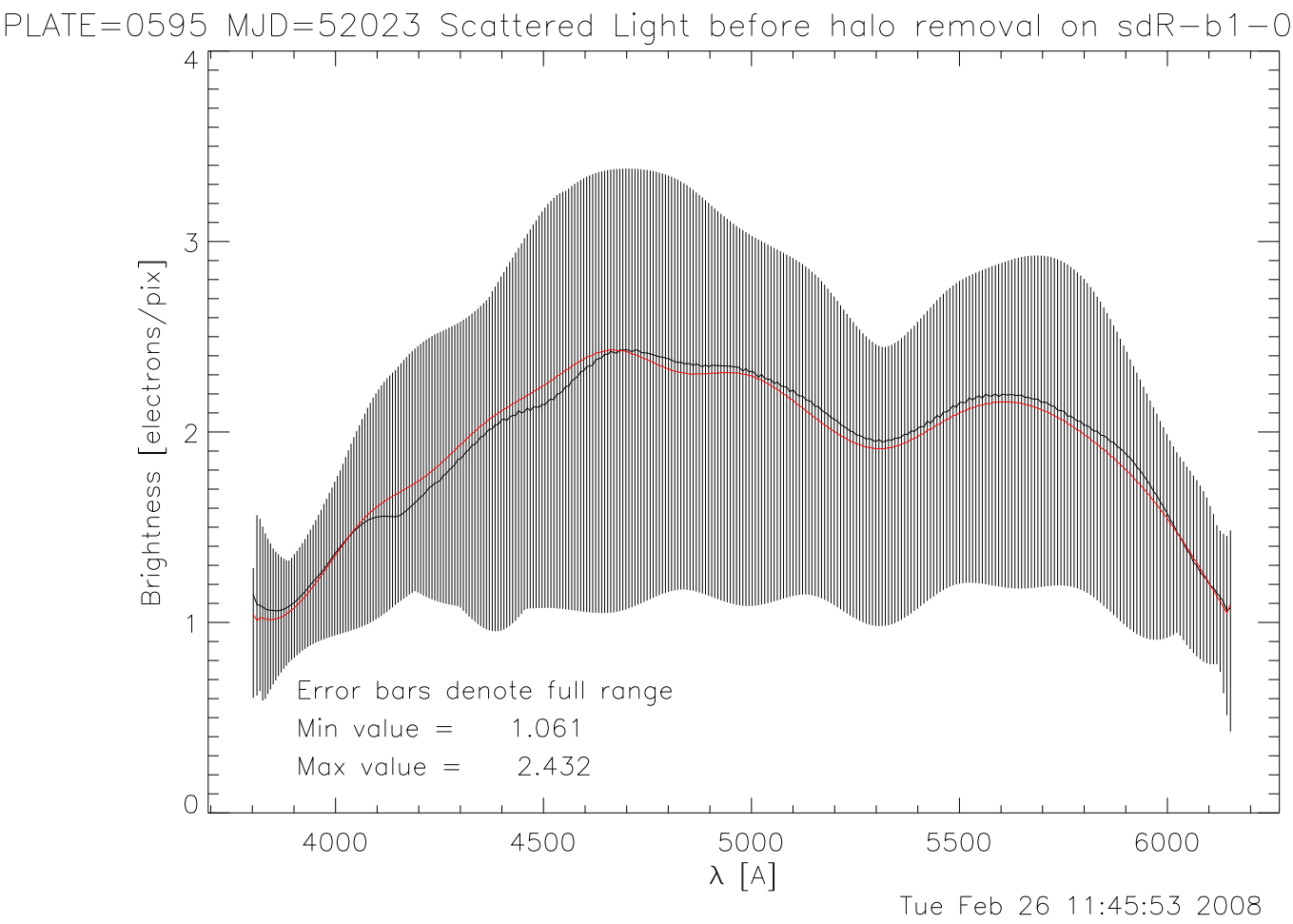
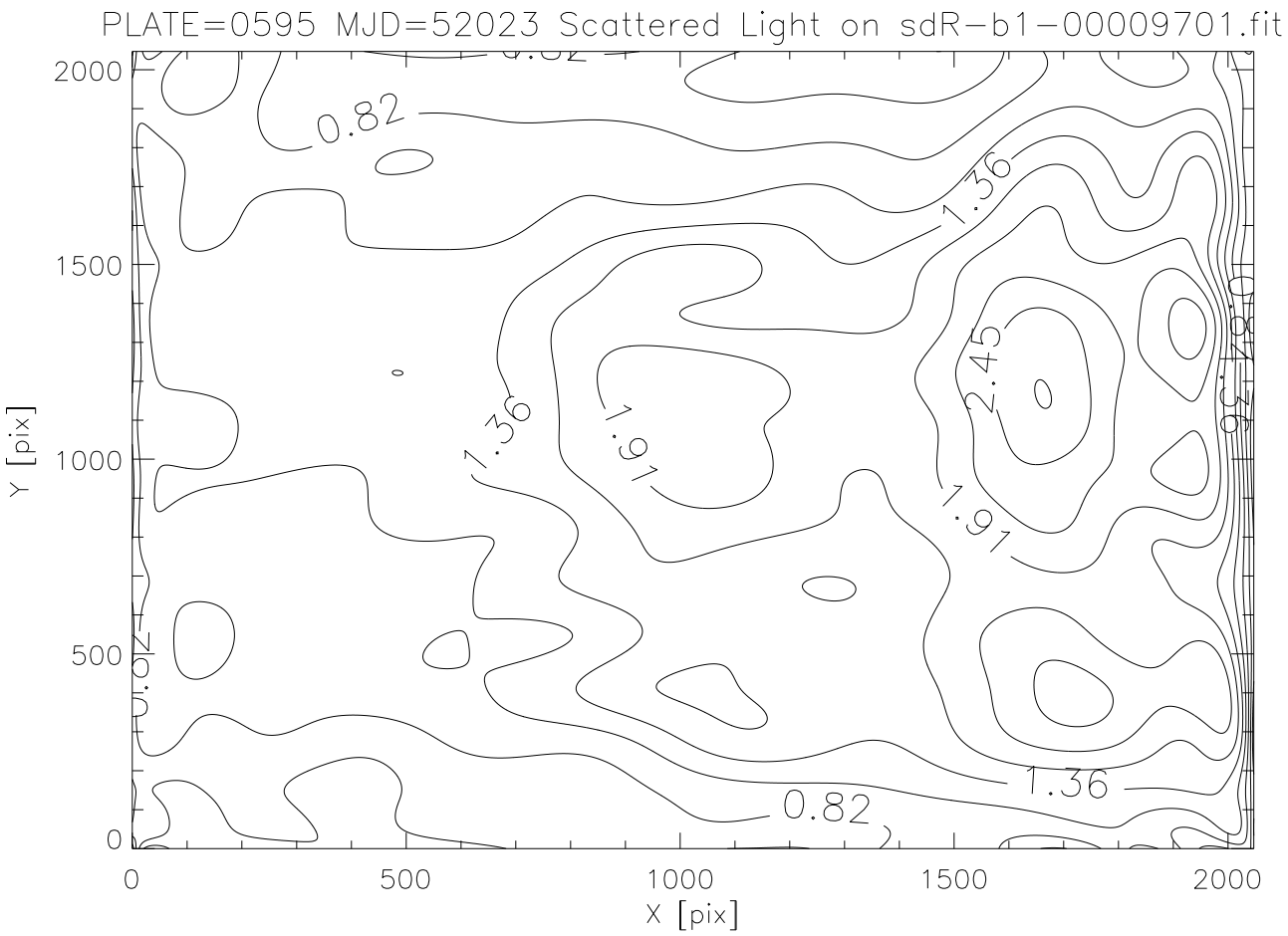
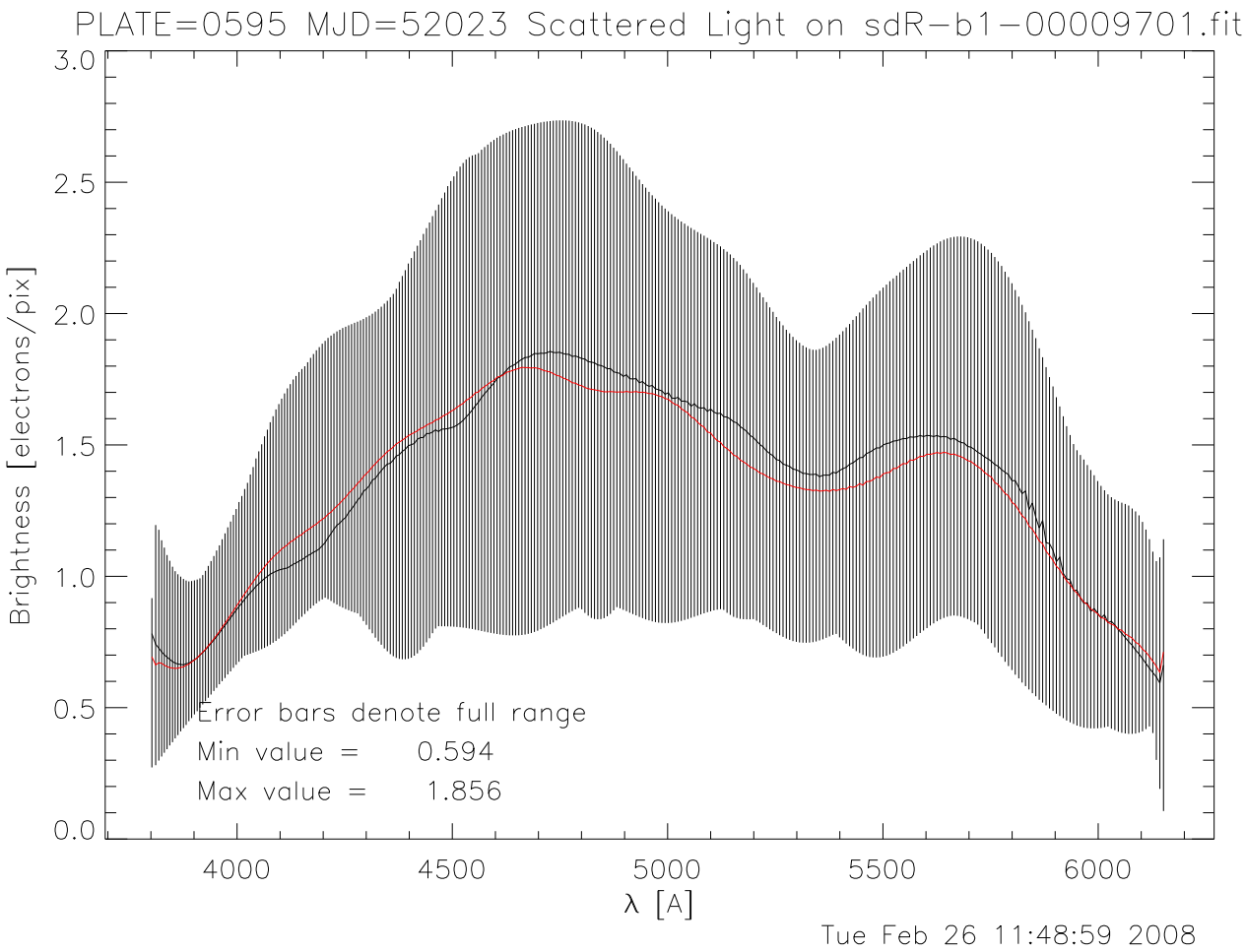
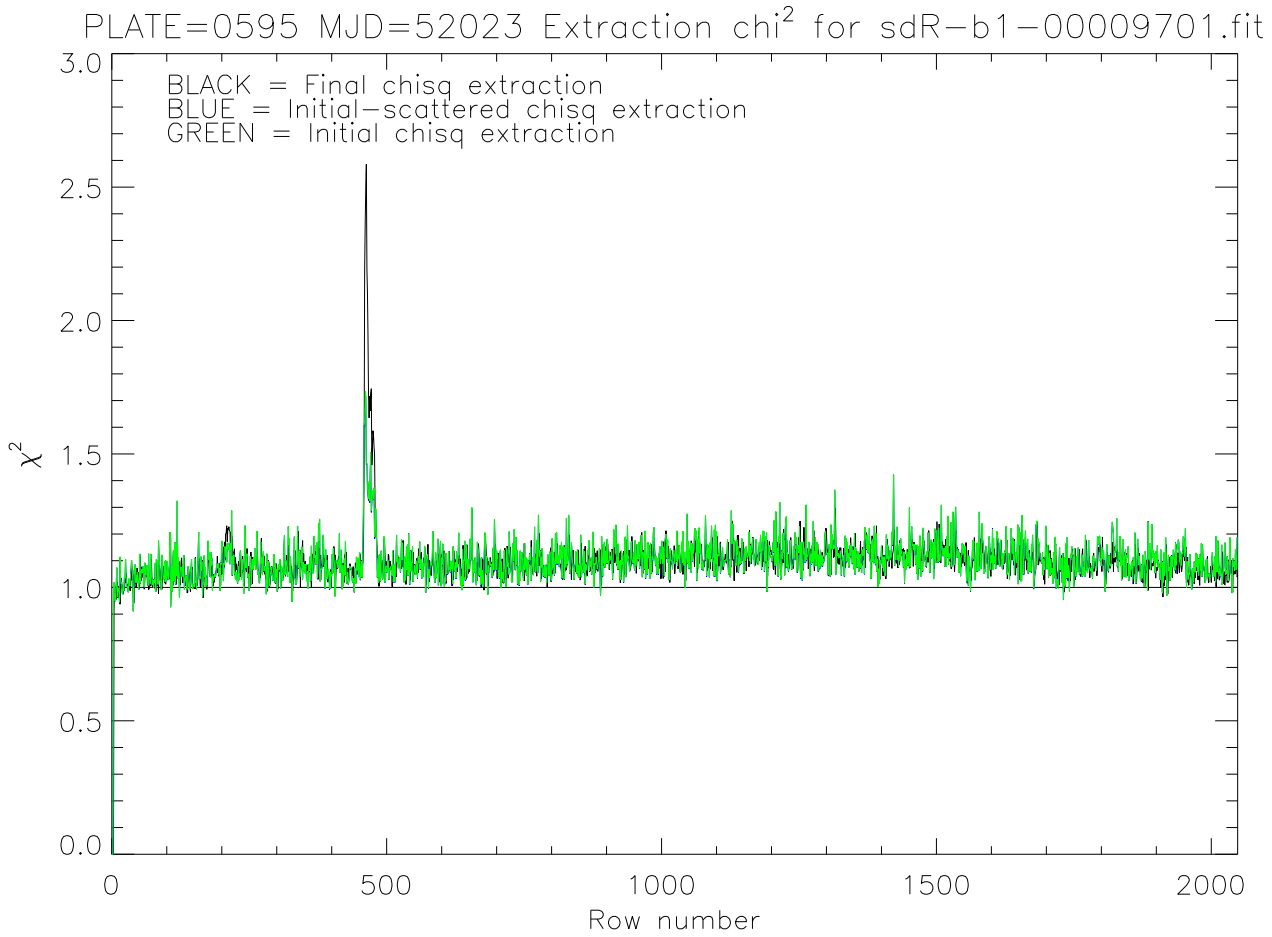
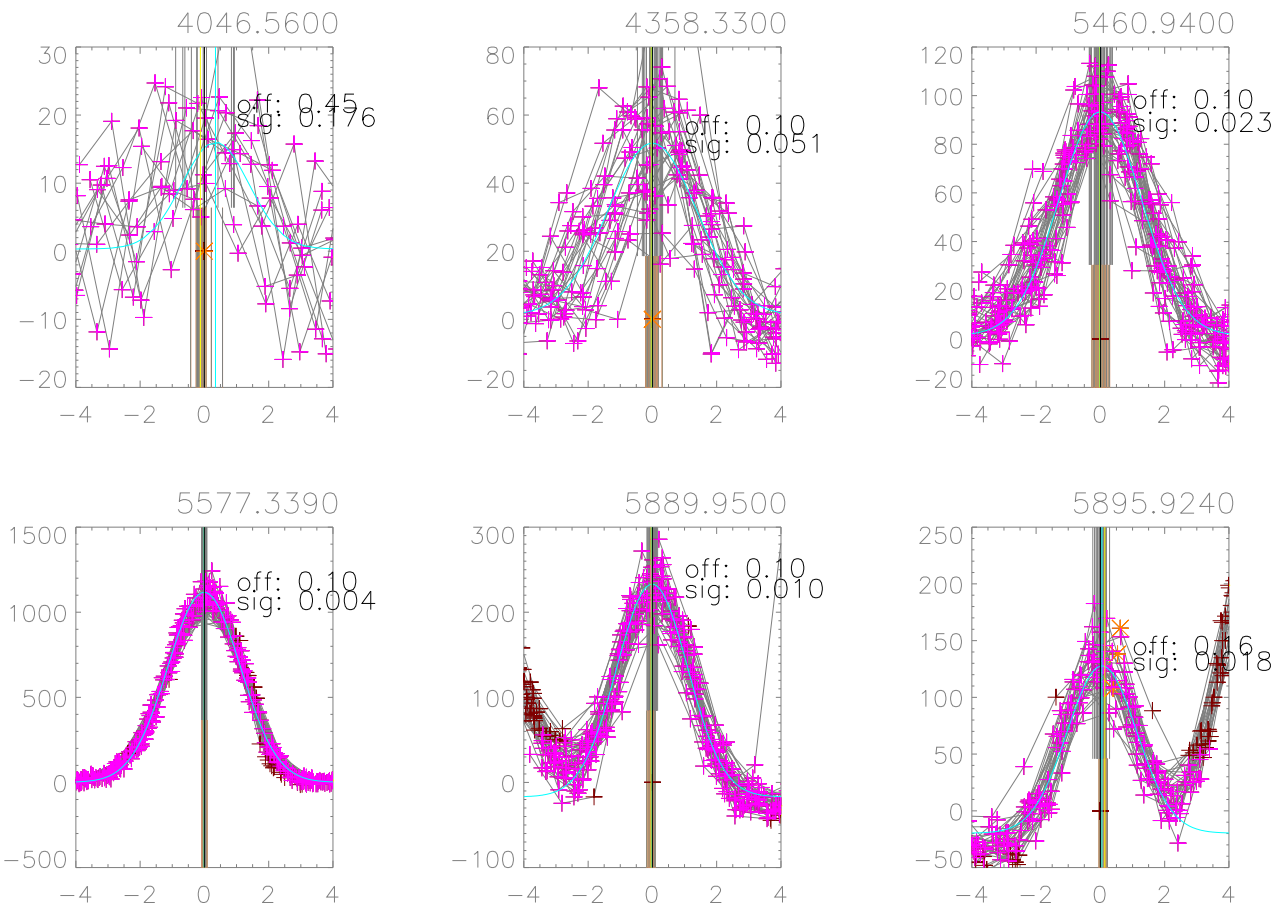

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR−b1−00009701.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.091
1.818
2.545

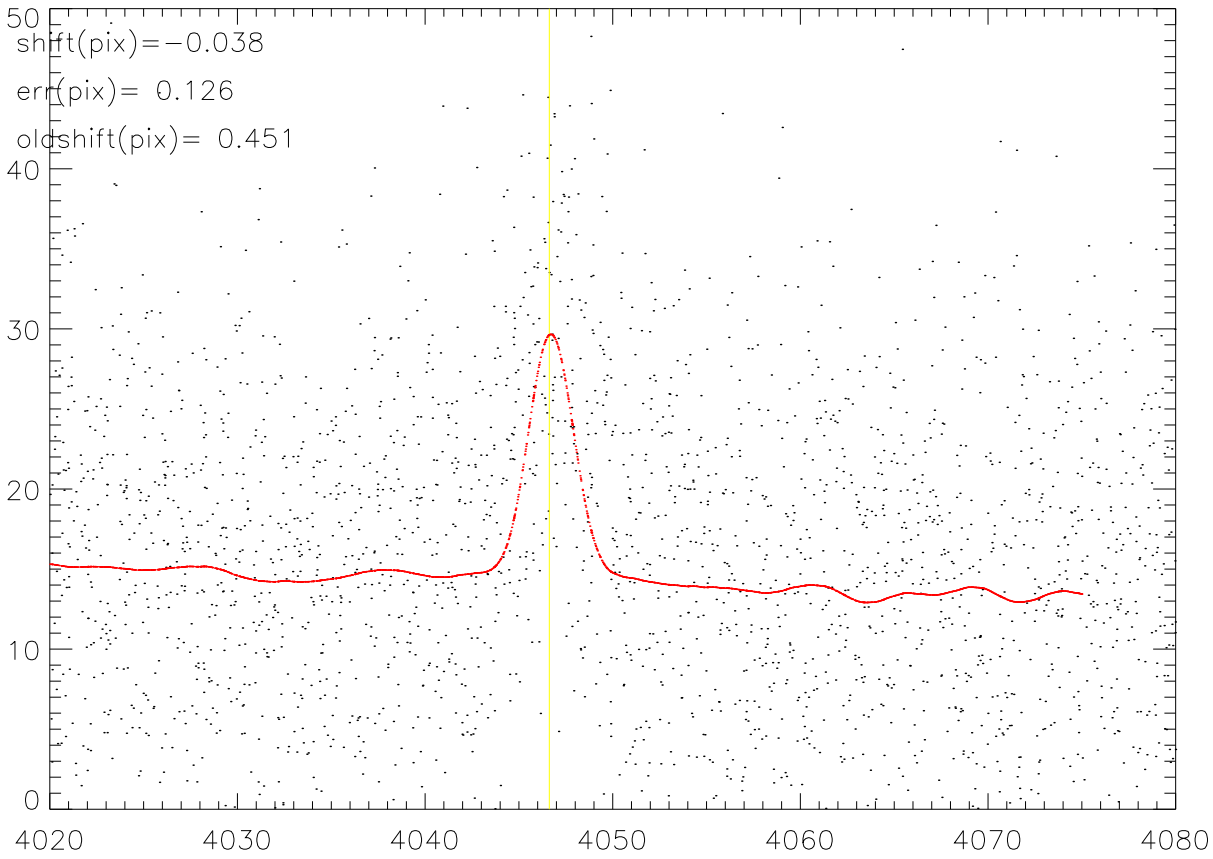

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-b1-00009701.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.061
Max value = 2.432
Tue Feb 26 11:45:53 2008

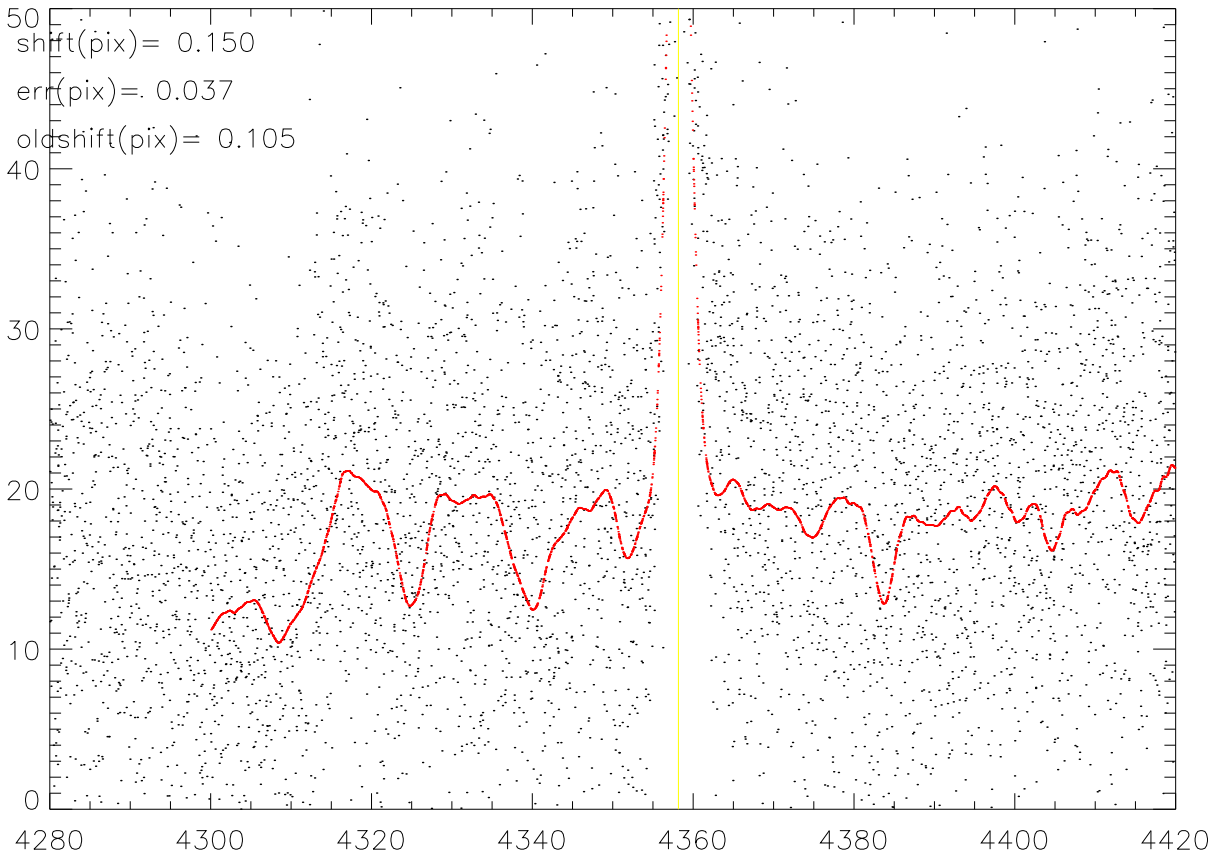

PLATE=0595 MJD=52023 Scattered Light on sdR-b1-00009701.fit
0.82
1.36
2.45
1.91
1.36
0.82
0.82
1.36
0.82
Y [pix]
X [pix]
0
500
1000
1500
2000

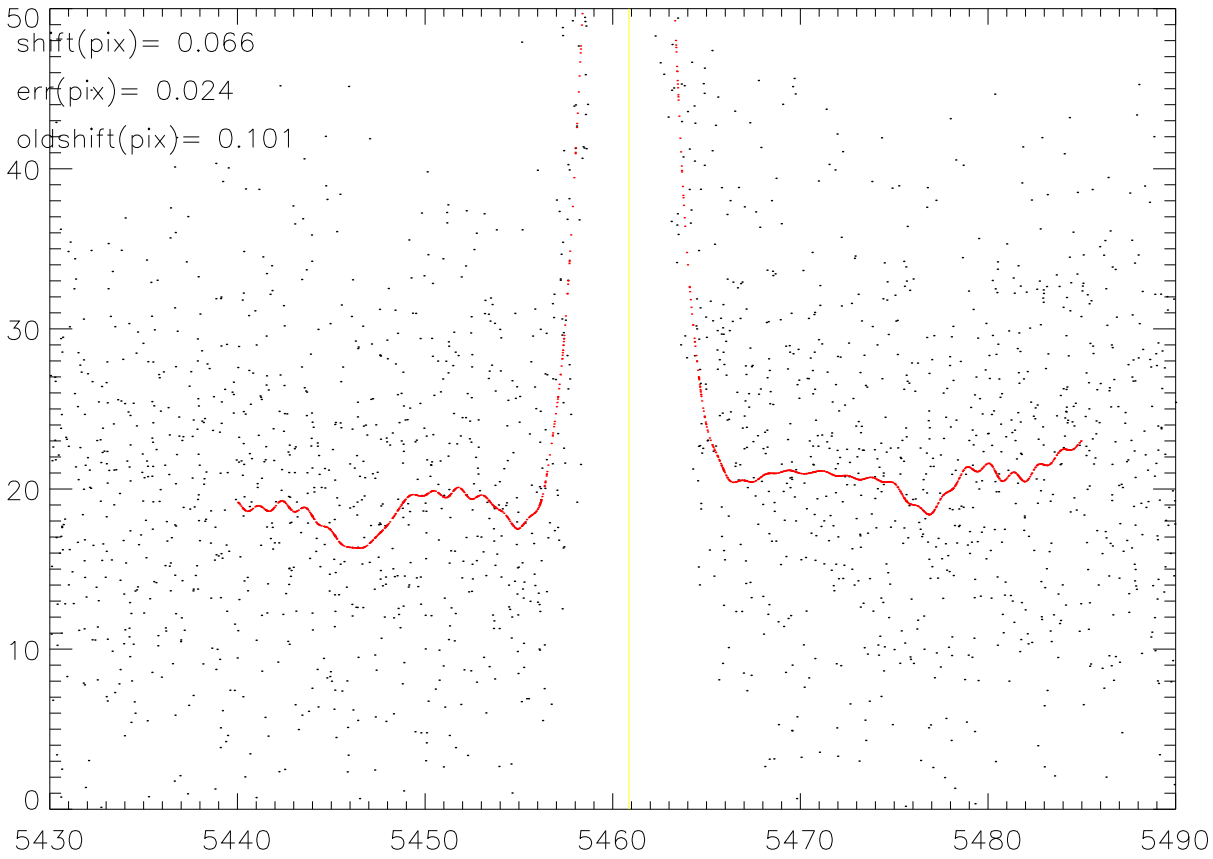

PLATE=0595 MJD=52023 Scattered Light on sdR-b1-00009701.fit
Brightness [electrons/pix]
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.594
Max value = 1.856
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 11:48:59 2008

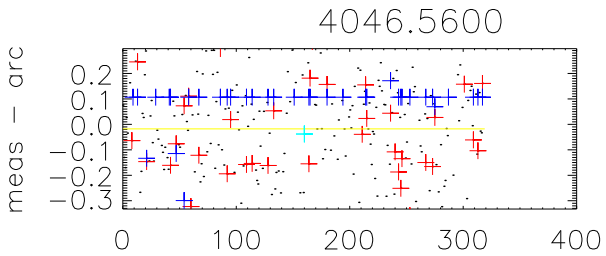

PLATE=0595 MJD=52023 Extraction chi^2 for sdR−b1−00009701.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

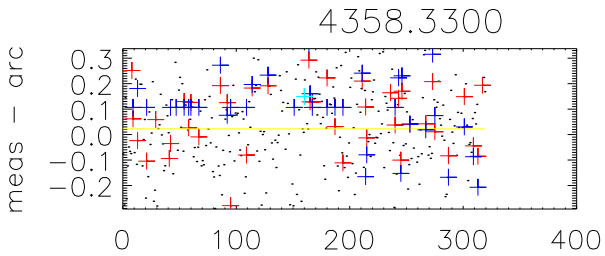

4046.5600
off: 0.45
sig: 0.176
4358.3300
off: 0.10
sig: 0.051
5460.9400
off: 0.10
sig: 0.023
5577.3390
off: 0.10
sig: 0.004
5889.9500
off: 0.10
sig: 0.010
5895.9240
off: 0.16
sig: 0.018

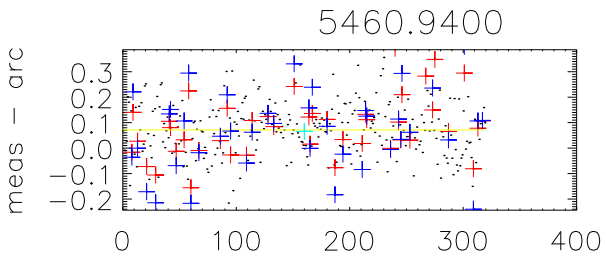

shift(pix)=−0.038
err(pix)= 0.126
oldshift(pix)= 0.451
50
40
30
20
10
0
4020
4030
4040
4050
4060
4070
4080

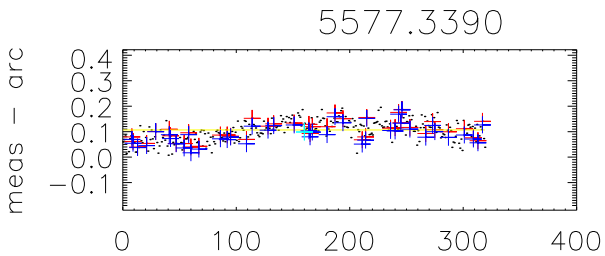

shift(pix)= 0.150
err(pix)= 0.037
oldshift(pix)= 0.105
50
40
30
20
10
0
4280
4300
4320
4340
4360
4380
4400
4420

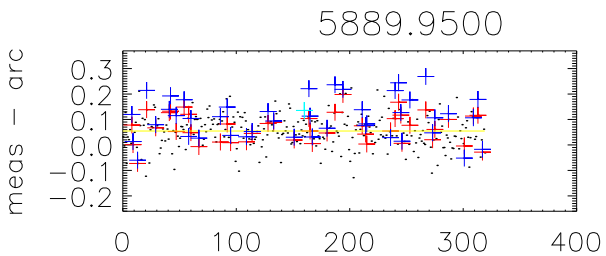

shift(pix)= 0.066
err(pix)= 0.024
oldshift(pix)= 0.101
50
40
30
20
10
0
5430
5440
5450
5460
5470
5480
5490

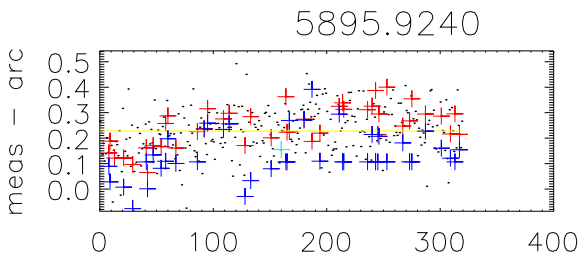

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

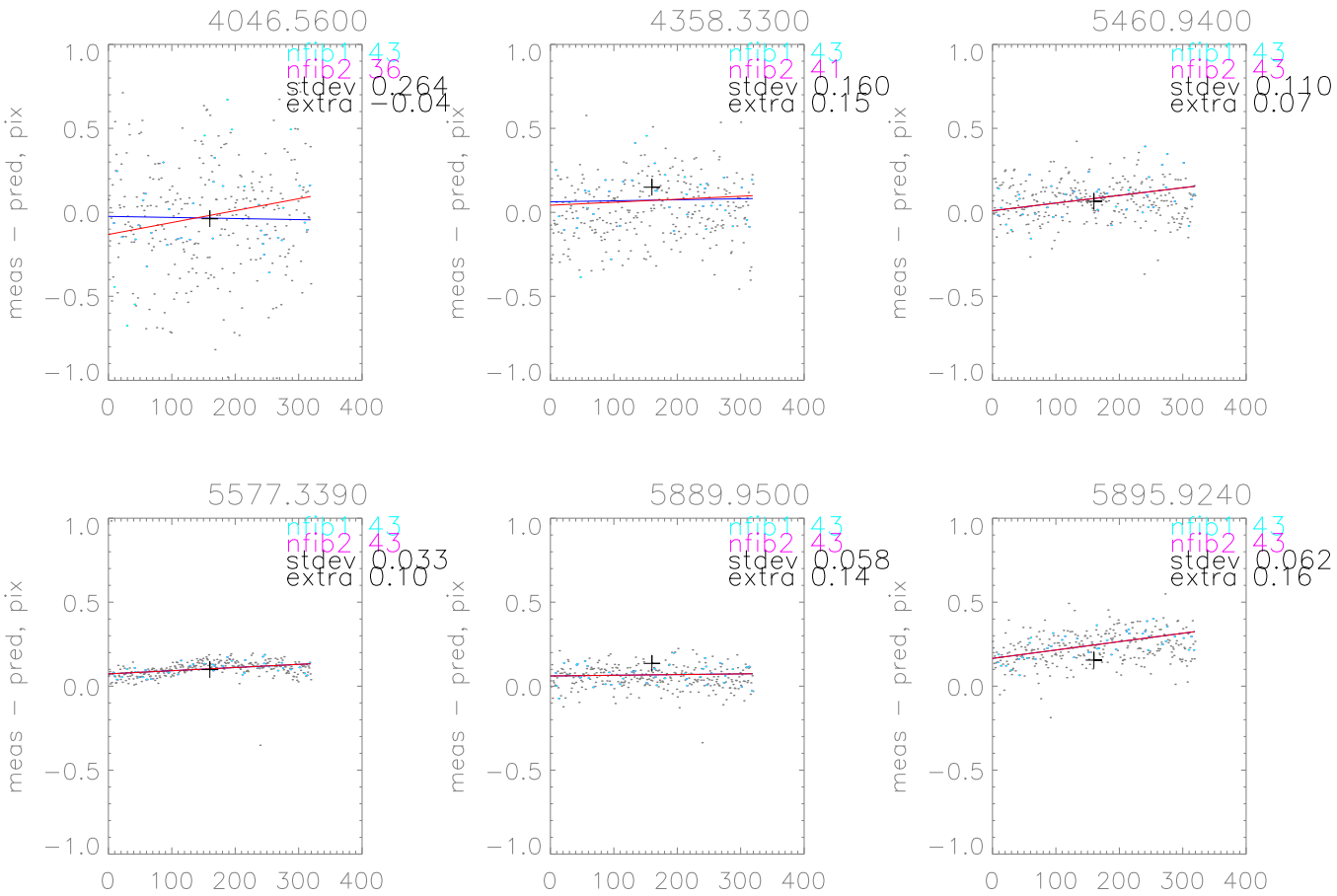

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

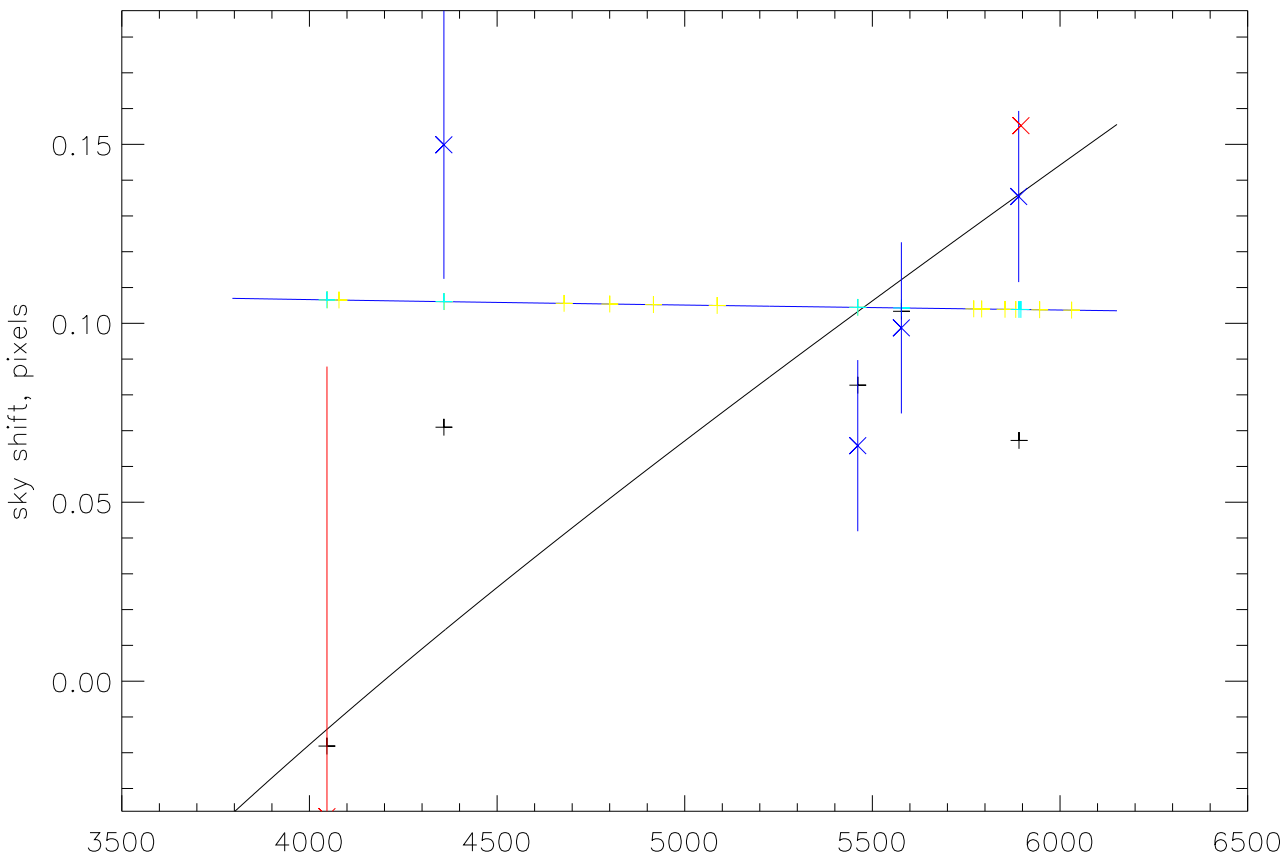

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

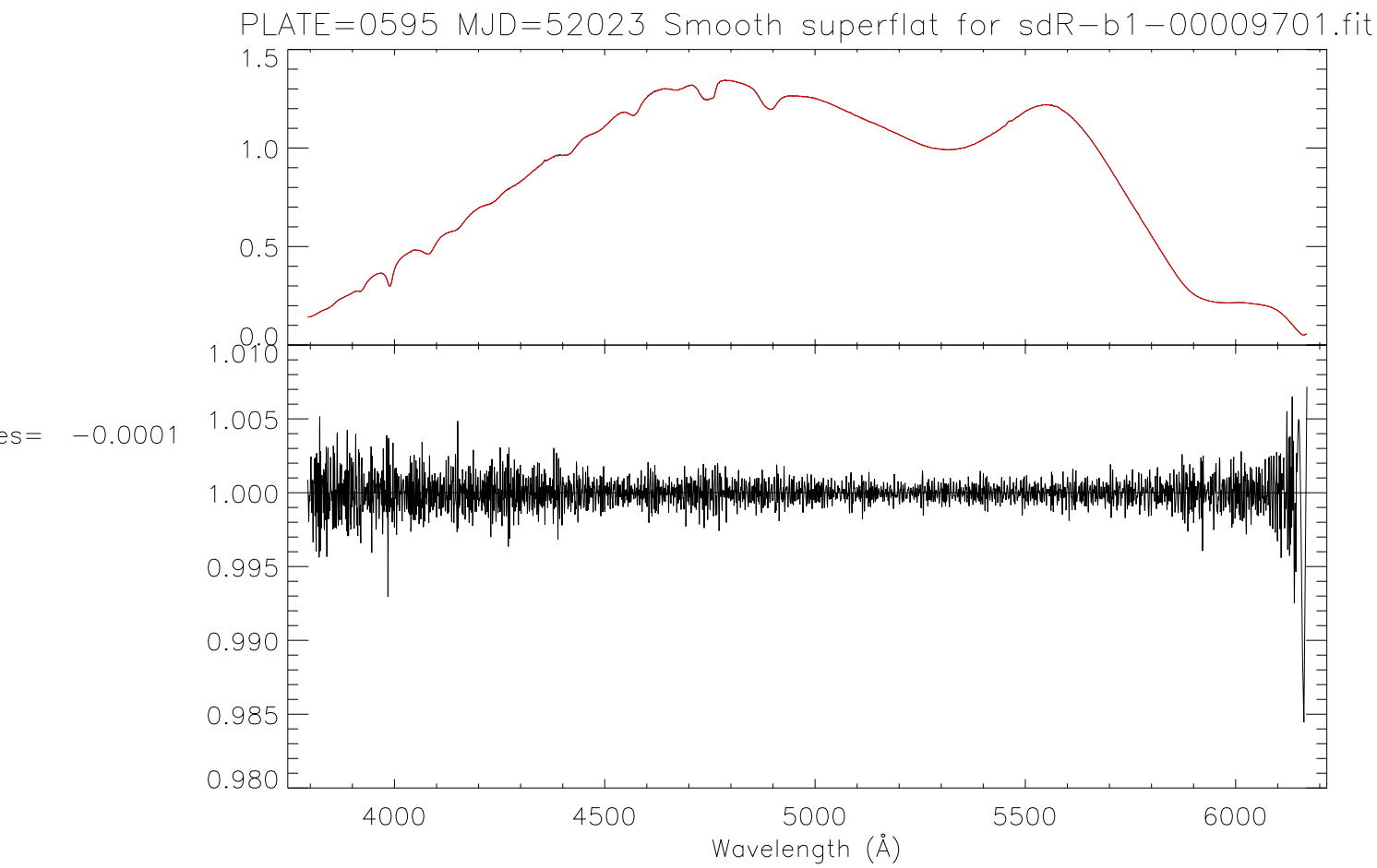

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

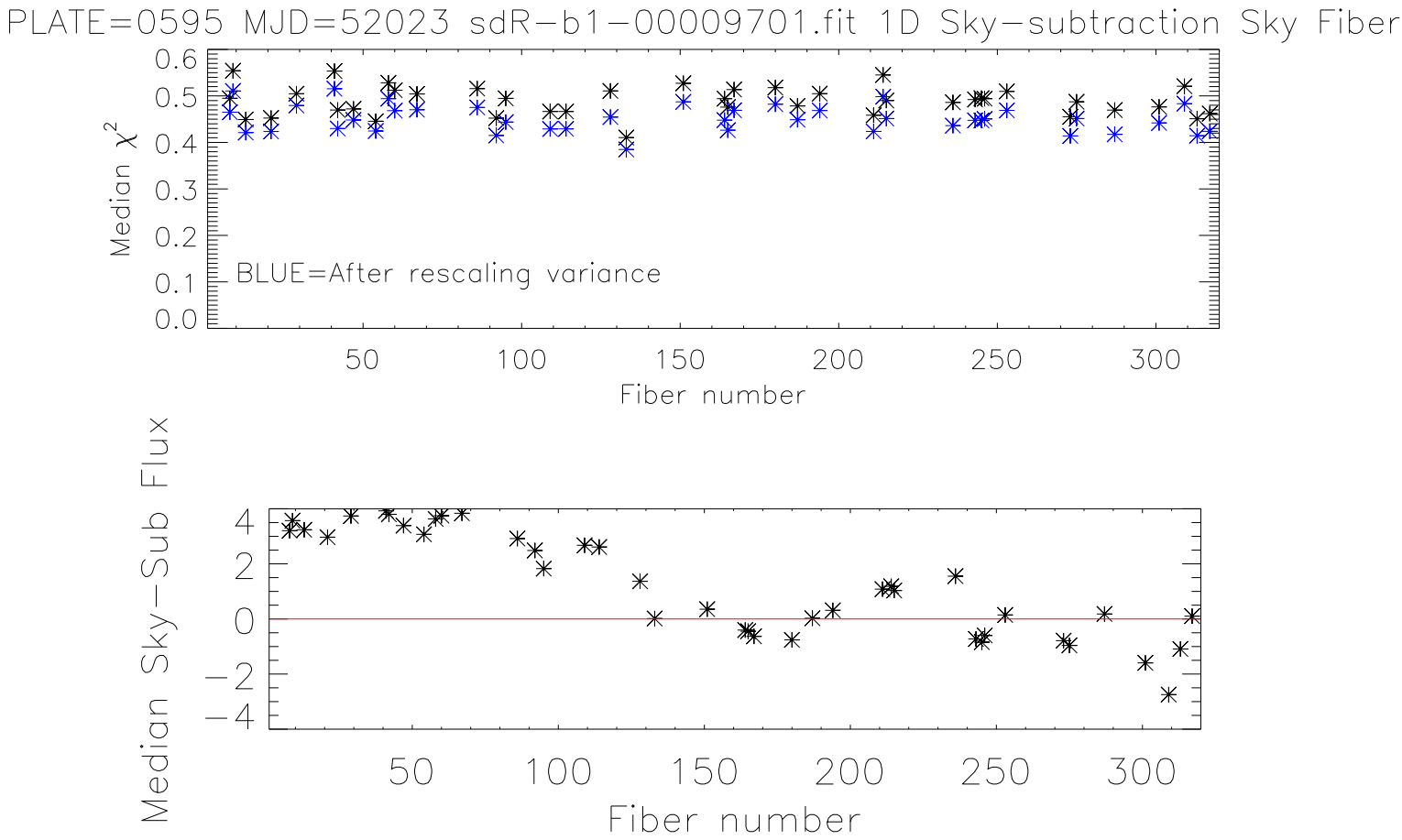

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

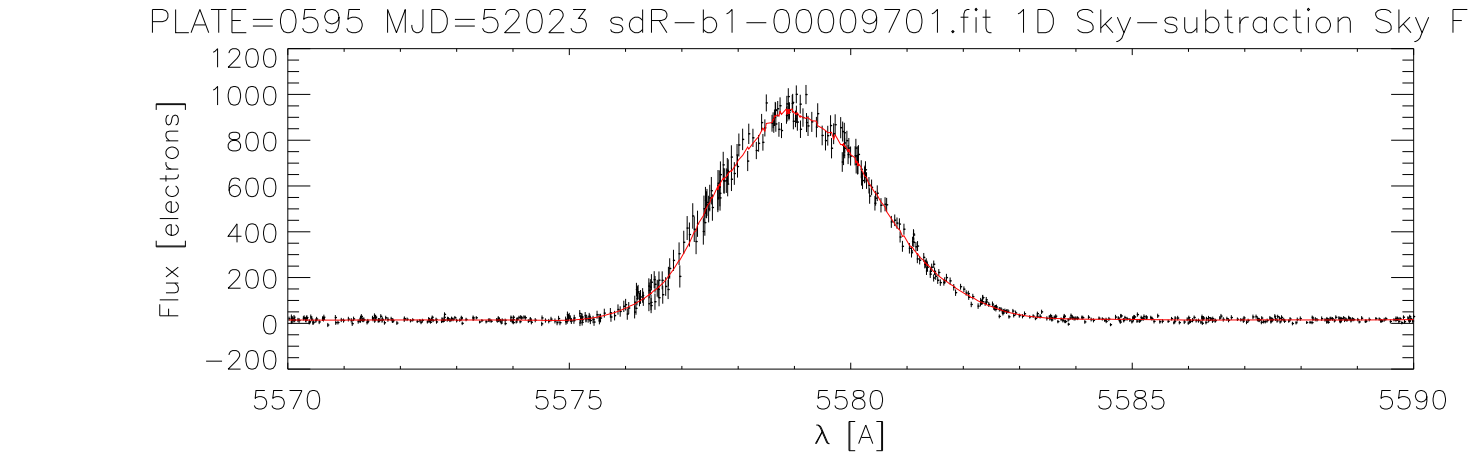

4046.5600
nfib1 43
nfib2 36
stdev 0.264
extra −0.04
4358.3300
nfib1 43
nfib2 41
stdev 0.160
extra 0.15
5460.9400
nfib1 43
nfib2 43
stdev 0.110
extra 0.07
5577.3390
nfib1 43
nfib2 43
stdev 0.033
extra 0.10
5889.9500
nfib1 43
nfib2 43
stdev 0.058
extra 0.14
5895.9240
nfib1 43
nfib2 43
stdev 0.062
extra 0.16
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

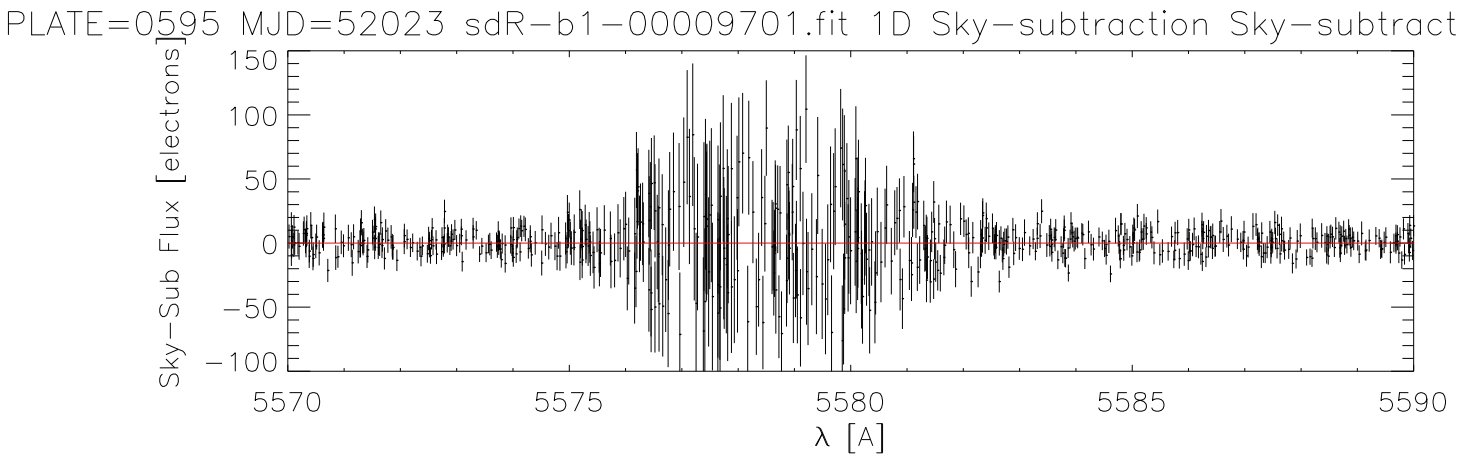

sky shift, pixels
0.15
0.10
0.05
0.00
3500
4000
4500
5000
5500
6000
6500

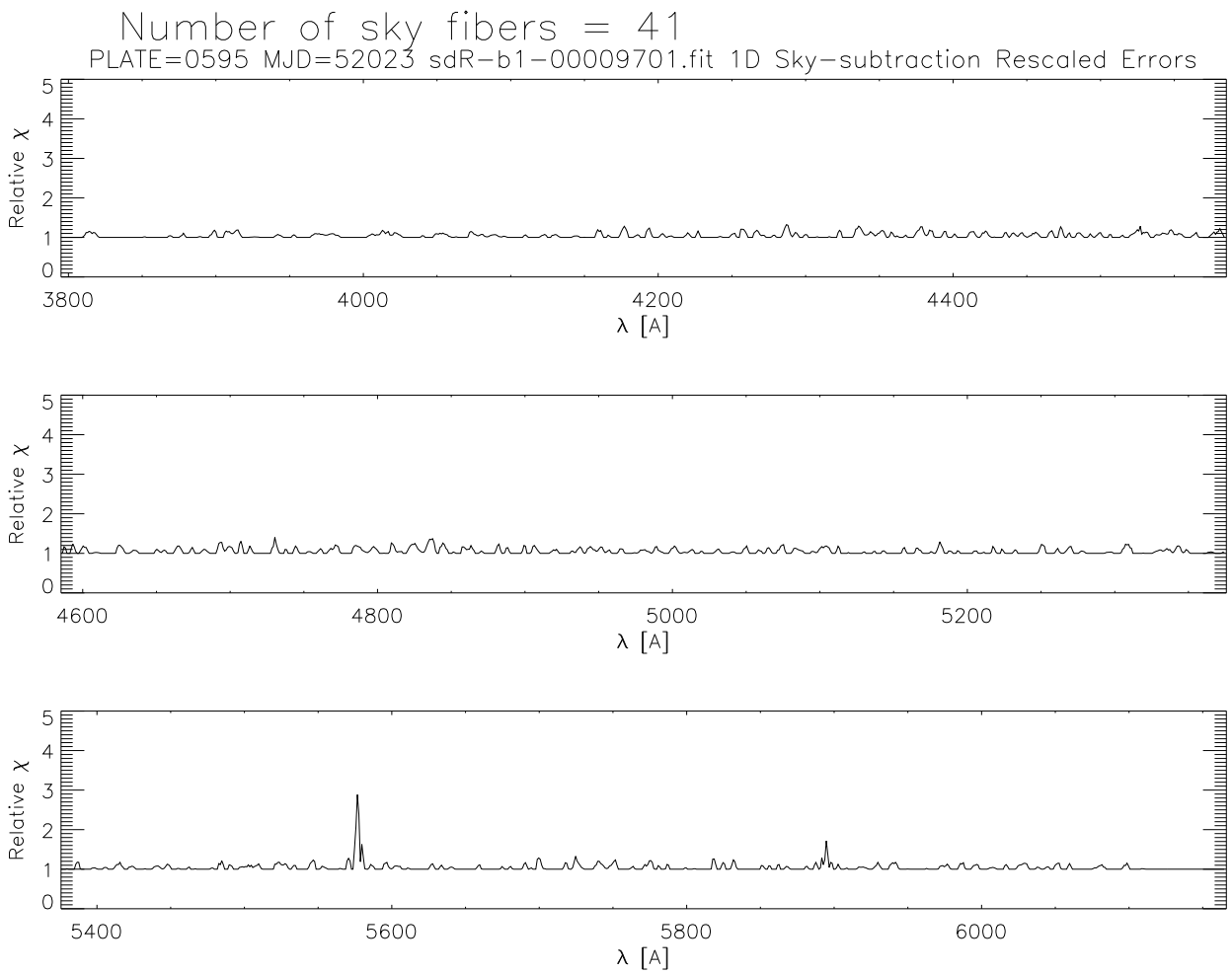

PLATE=0595 MJD=52023 Smooth superflat for sdR-b1-00009701.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
4000
4500
5000
5500
6000
Wavelength (Å)

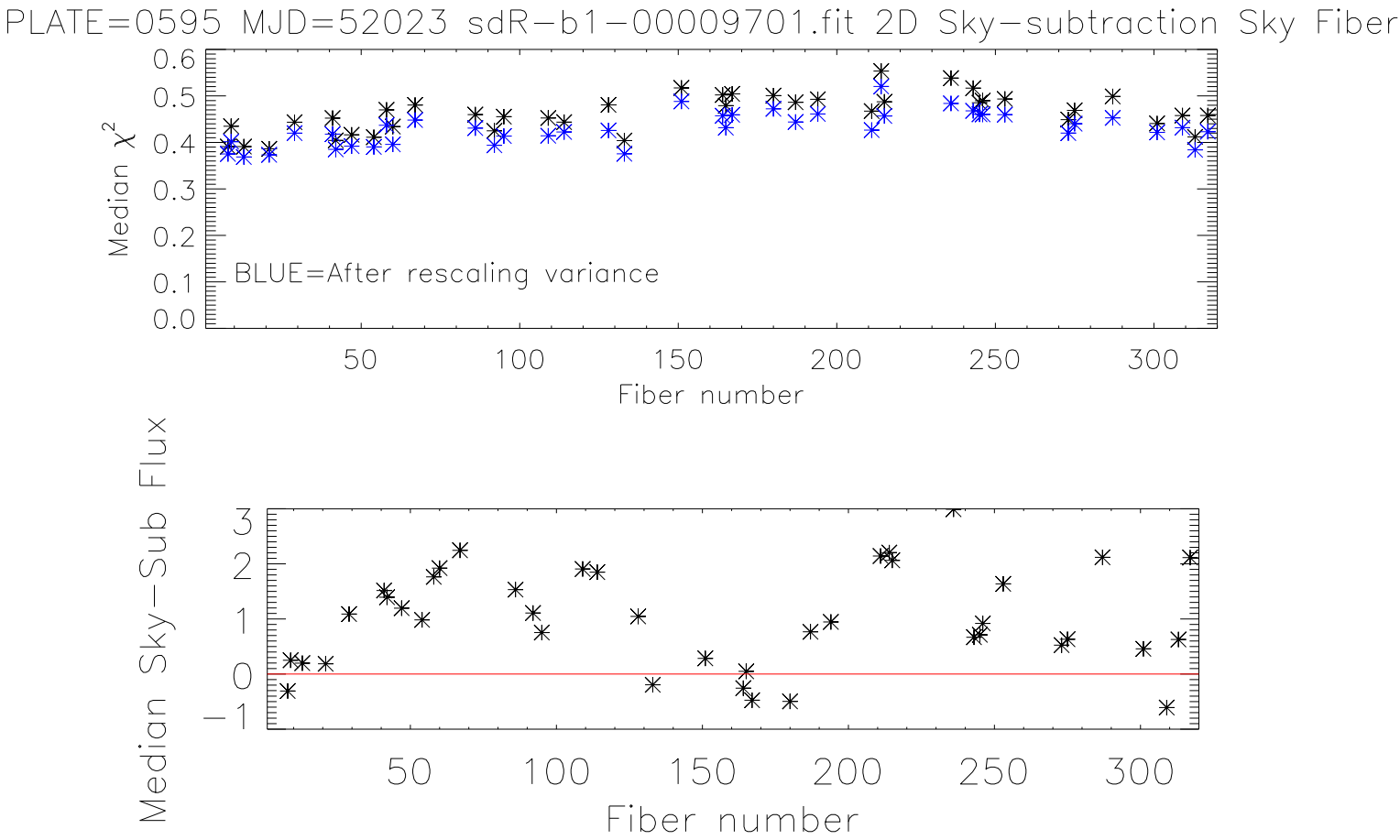
es= −0.0001

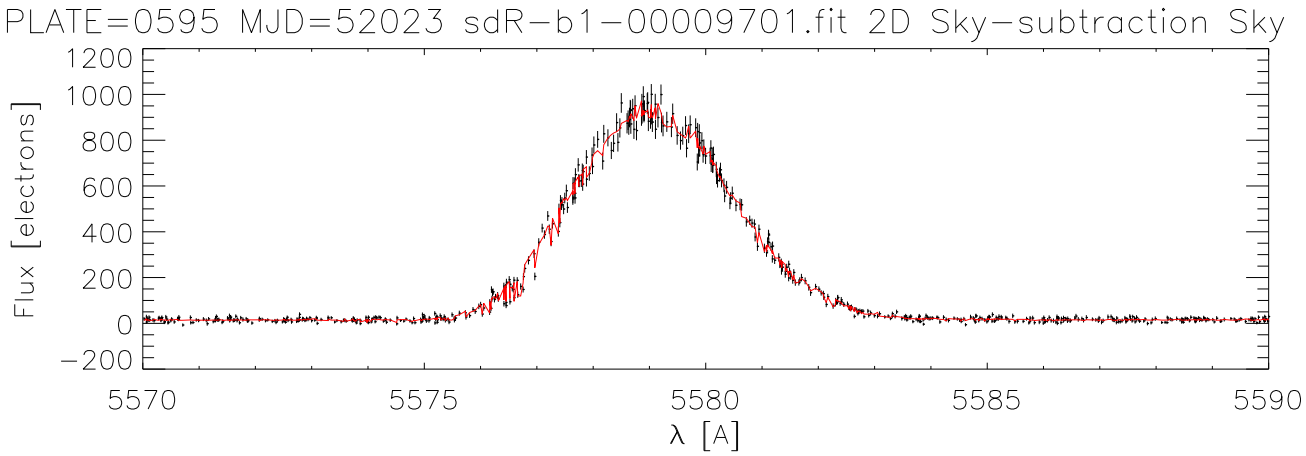

PLATE=0595 MJD=52023 sdR-b1-00009701.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
4
2
0
-2
-4
50
100
150
200
250
300
Fiber number

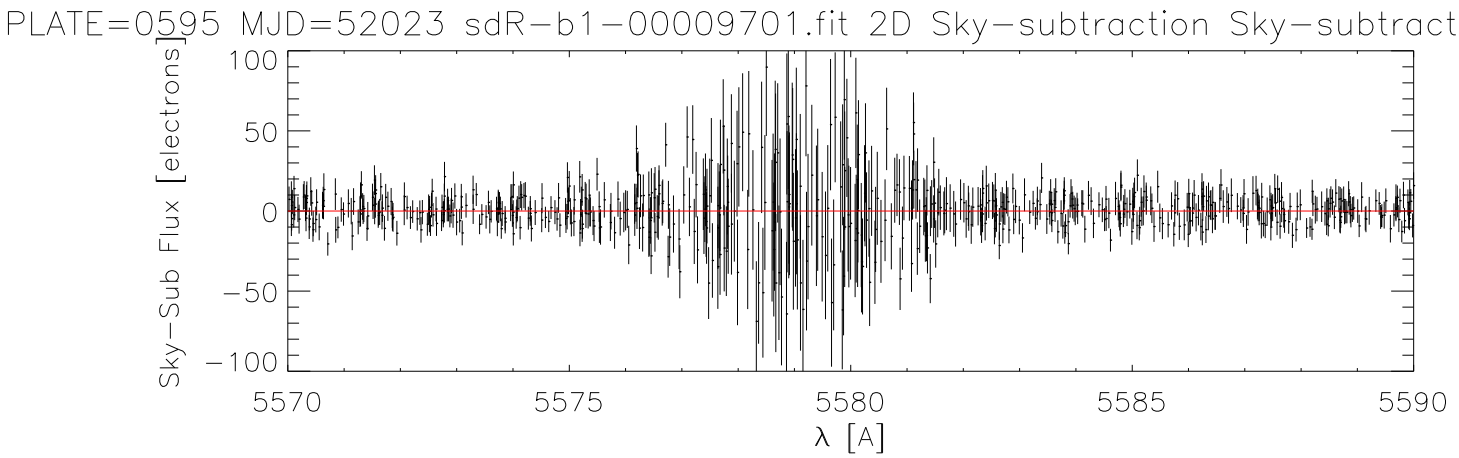

PLATE=0595 MJD=52023 sdR-b1-00009701.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

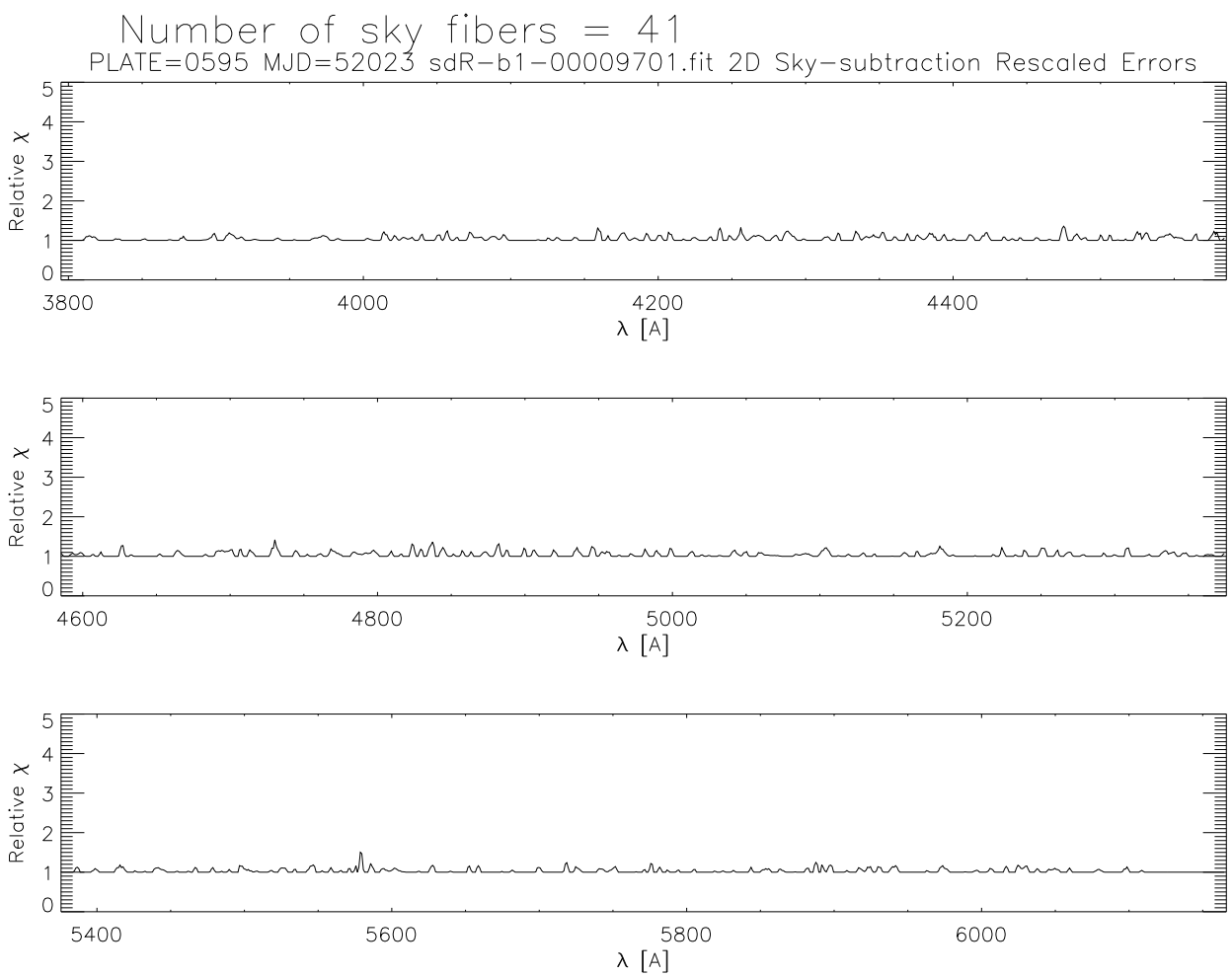

PLATE=0595 MJD=52023 sdR-b1-00009701.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

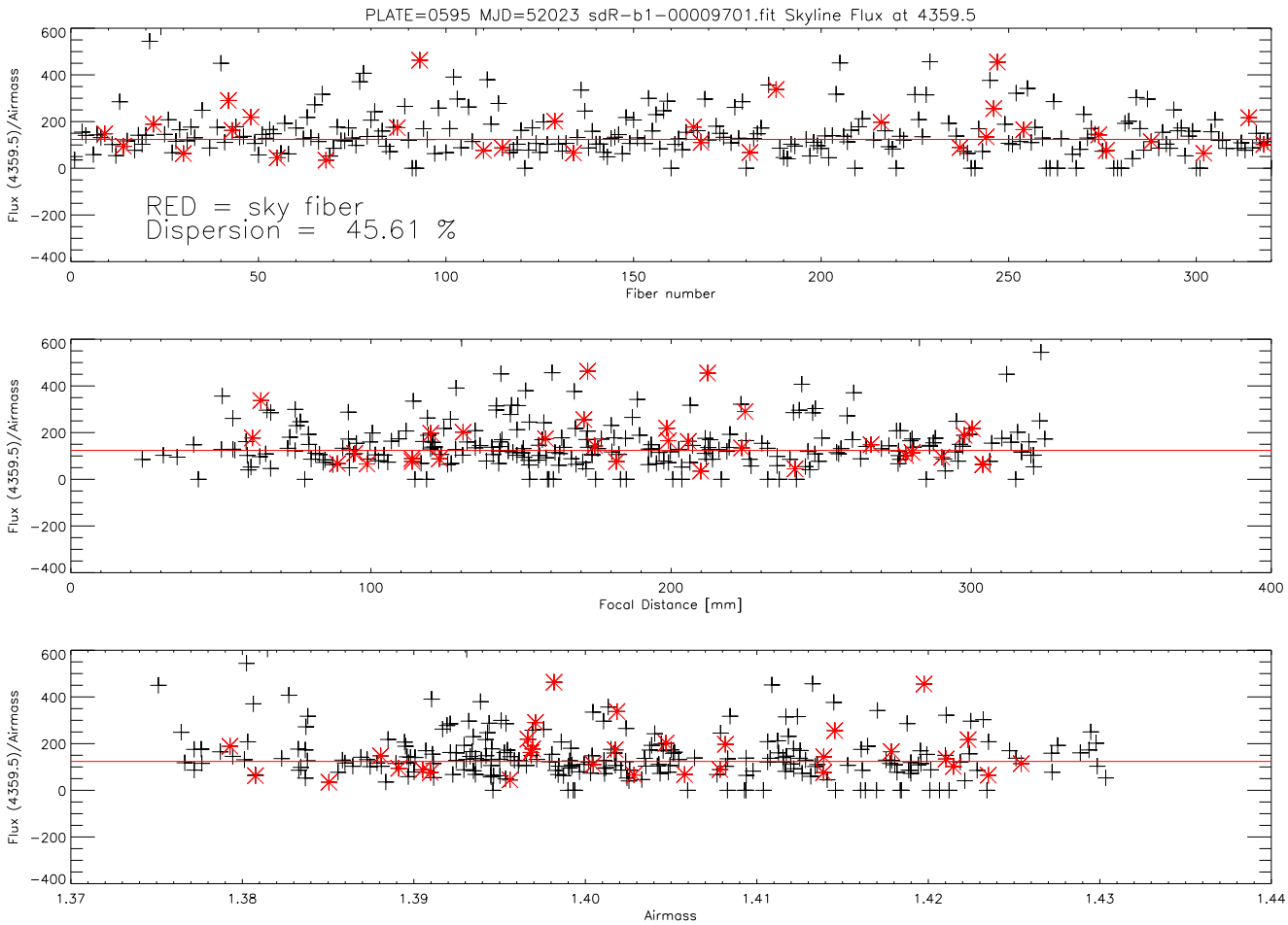

Number of sky fibers = 41
PLATE=0595 MJD=52023 sdR-b1-00009701.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

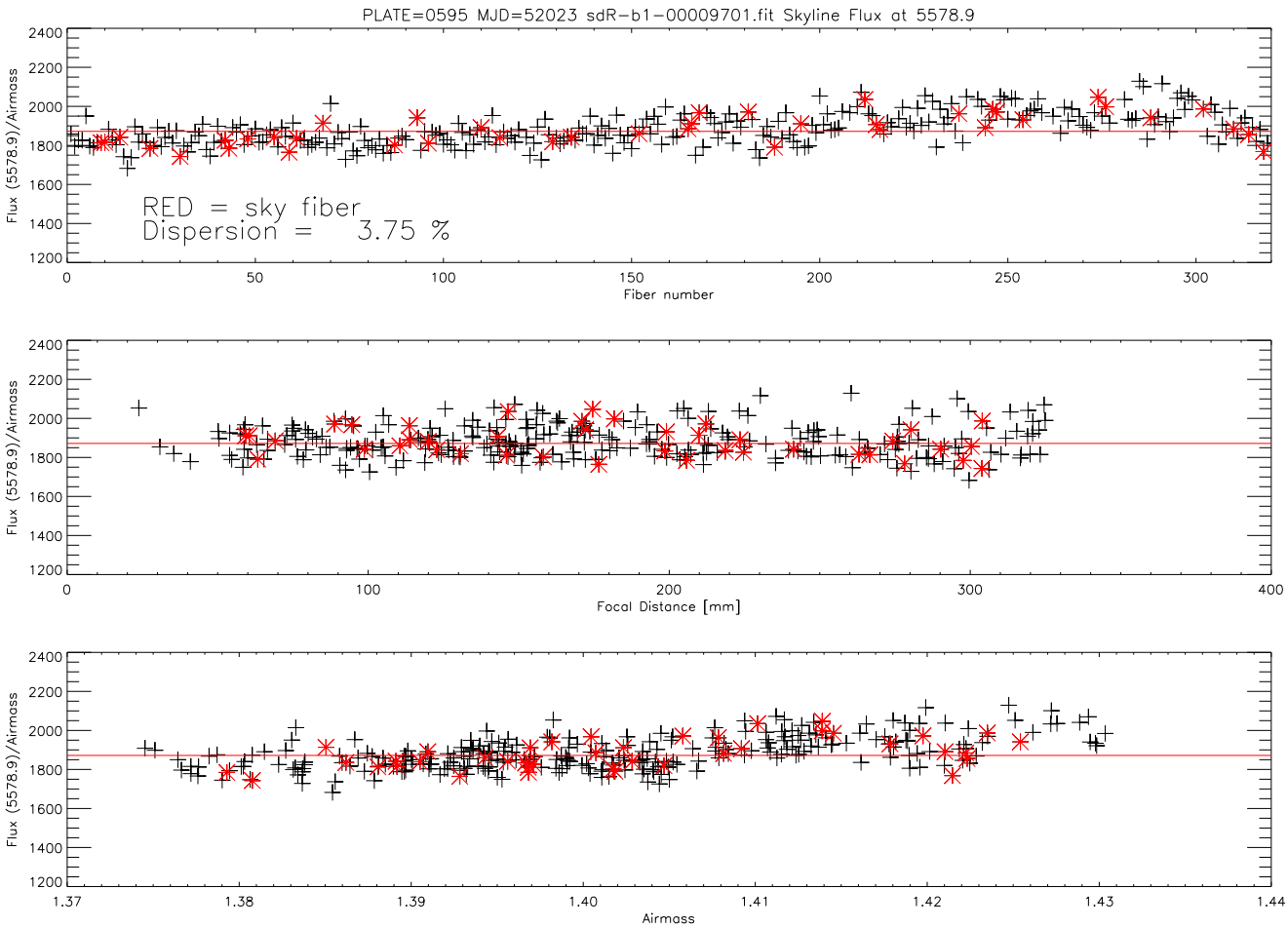

PLATE=0595 MJD=52023 sdR-b1-00009701.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

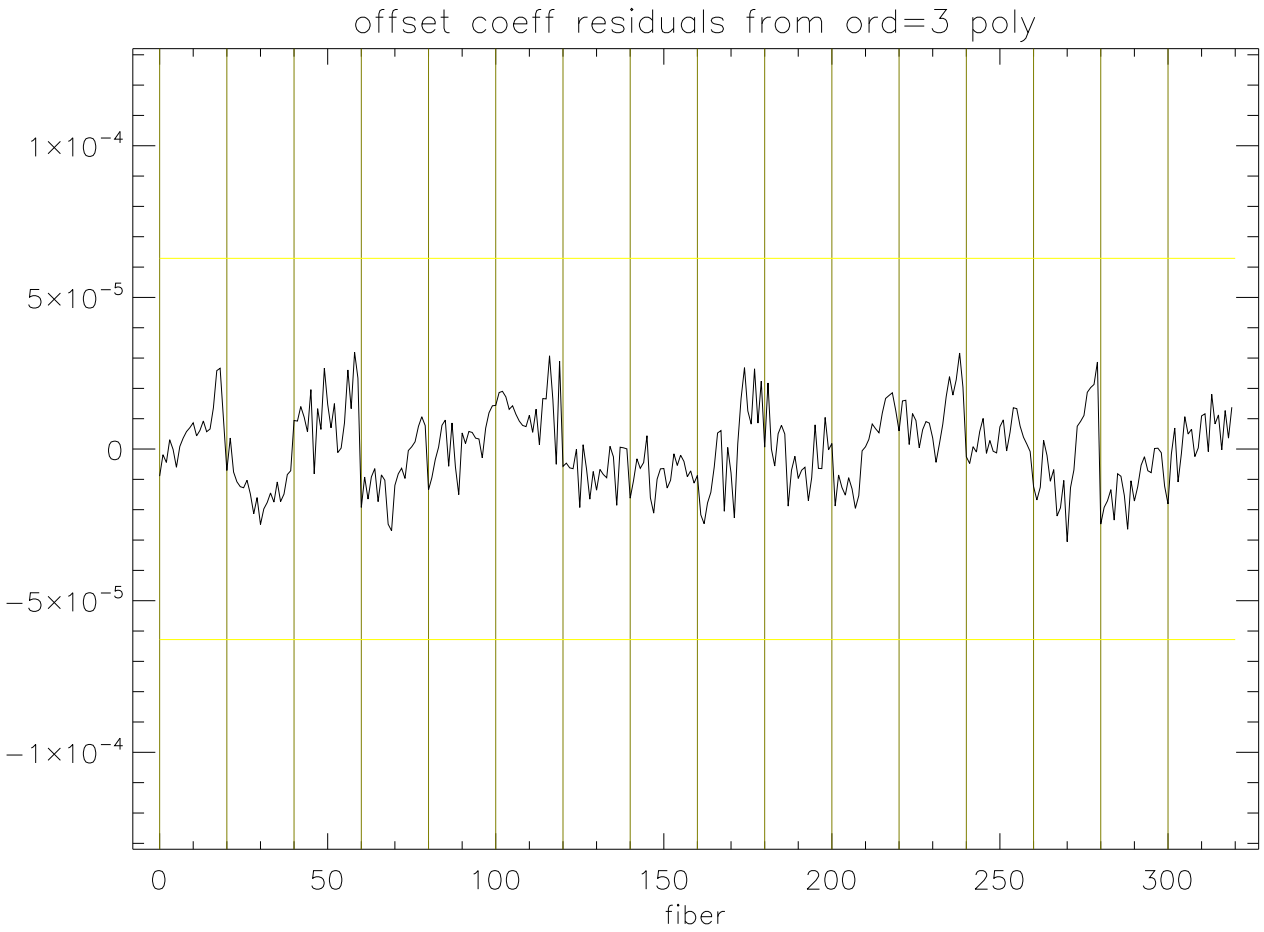

PLATE=0595 MJD=52023 sdR-b1-00009701.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

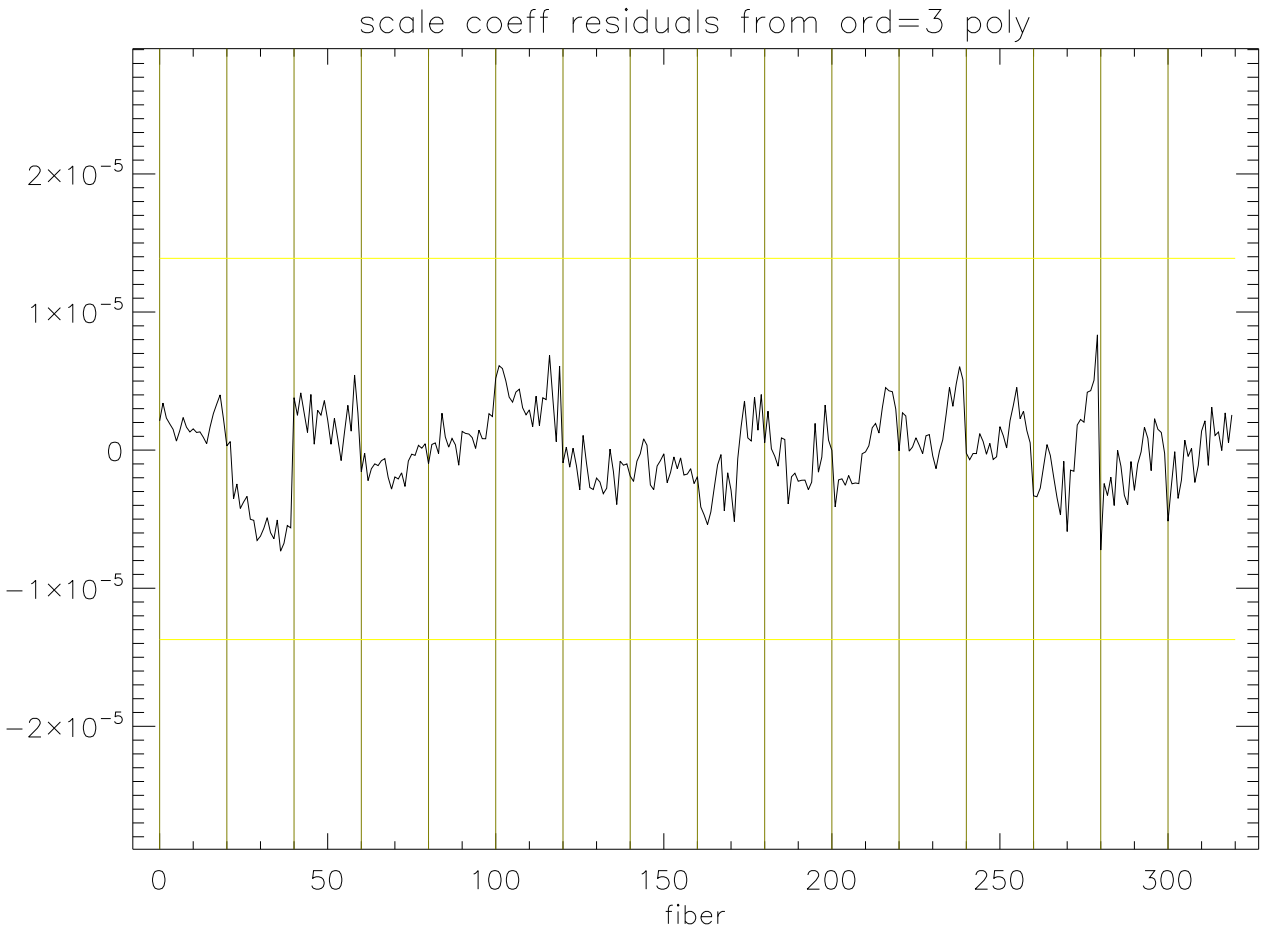

PLATE=0595 MJD=52023 sdR-b1-00009701.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

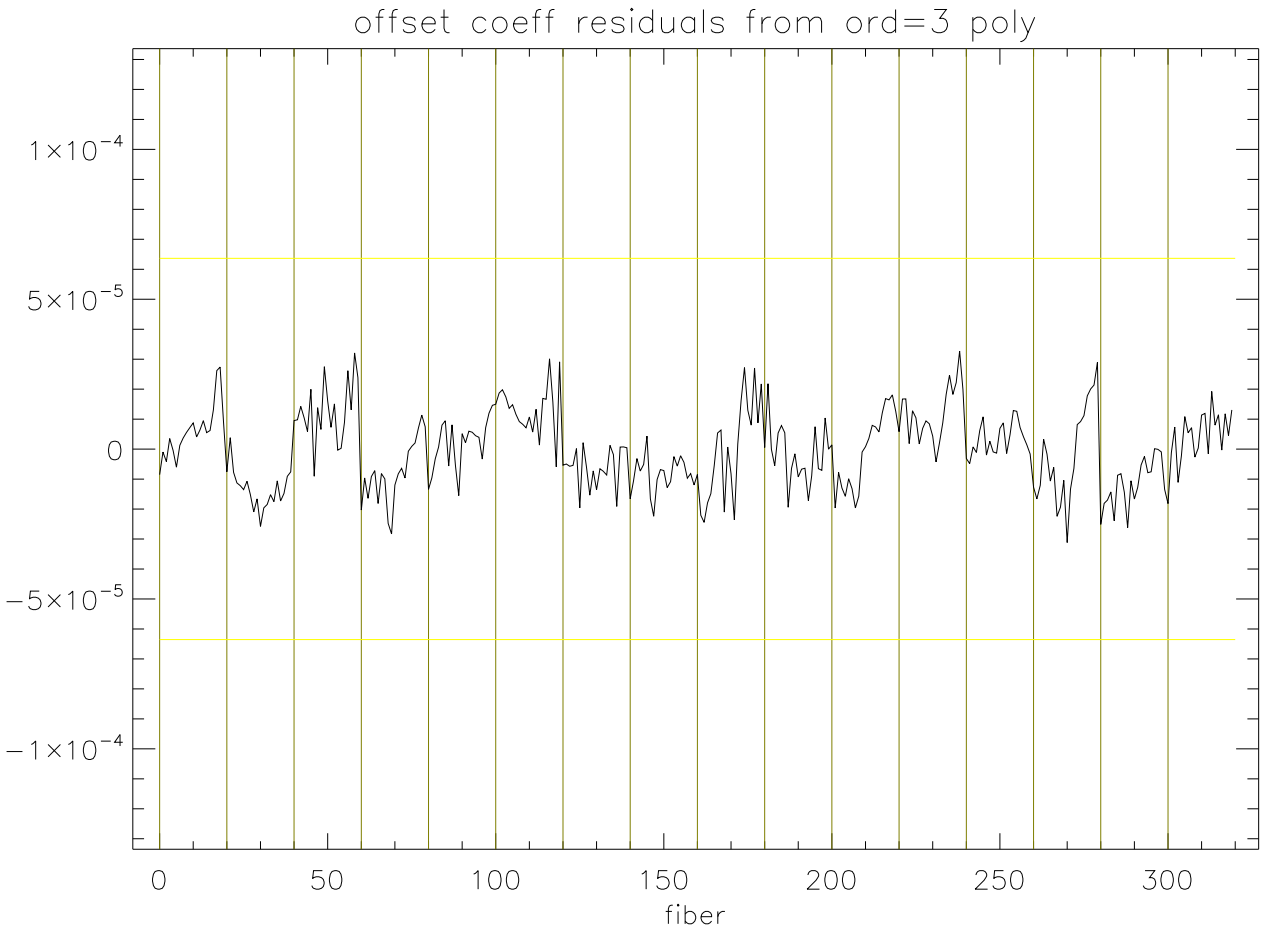

Number of sky fibers = 41
PLATE=0595 MJD=52023 sdR-b1-00009701.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

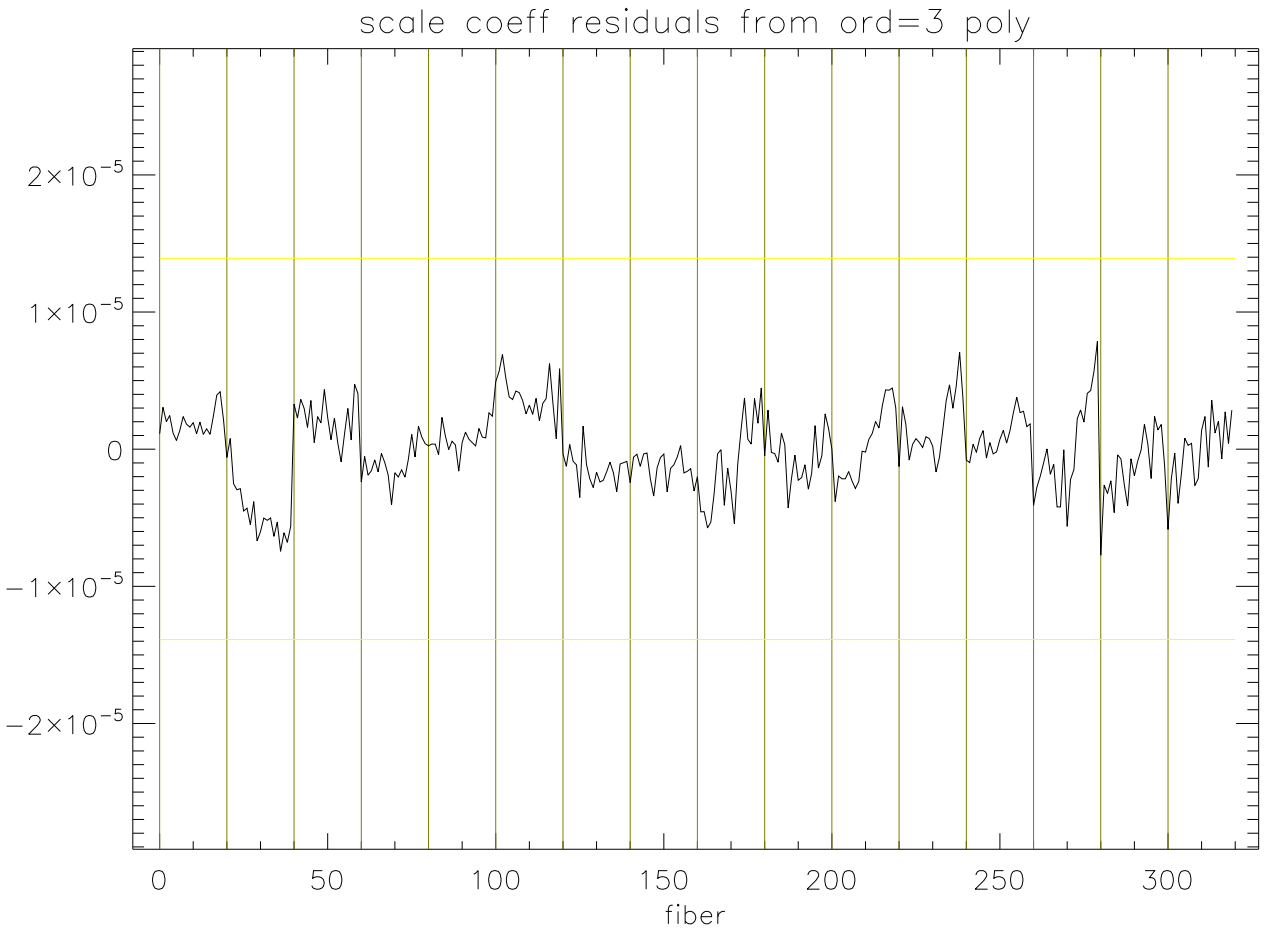

PLATE=0595 MJD=52023 sdR-b1-00009701.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 45.61 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

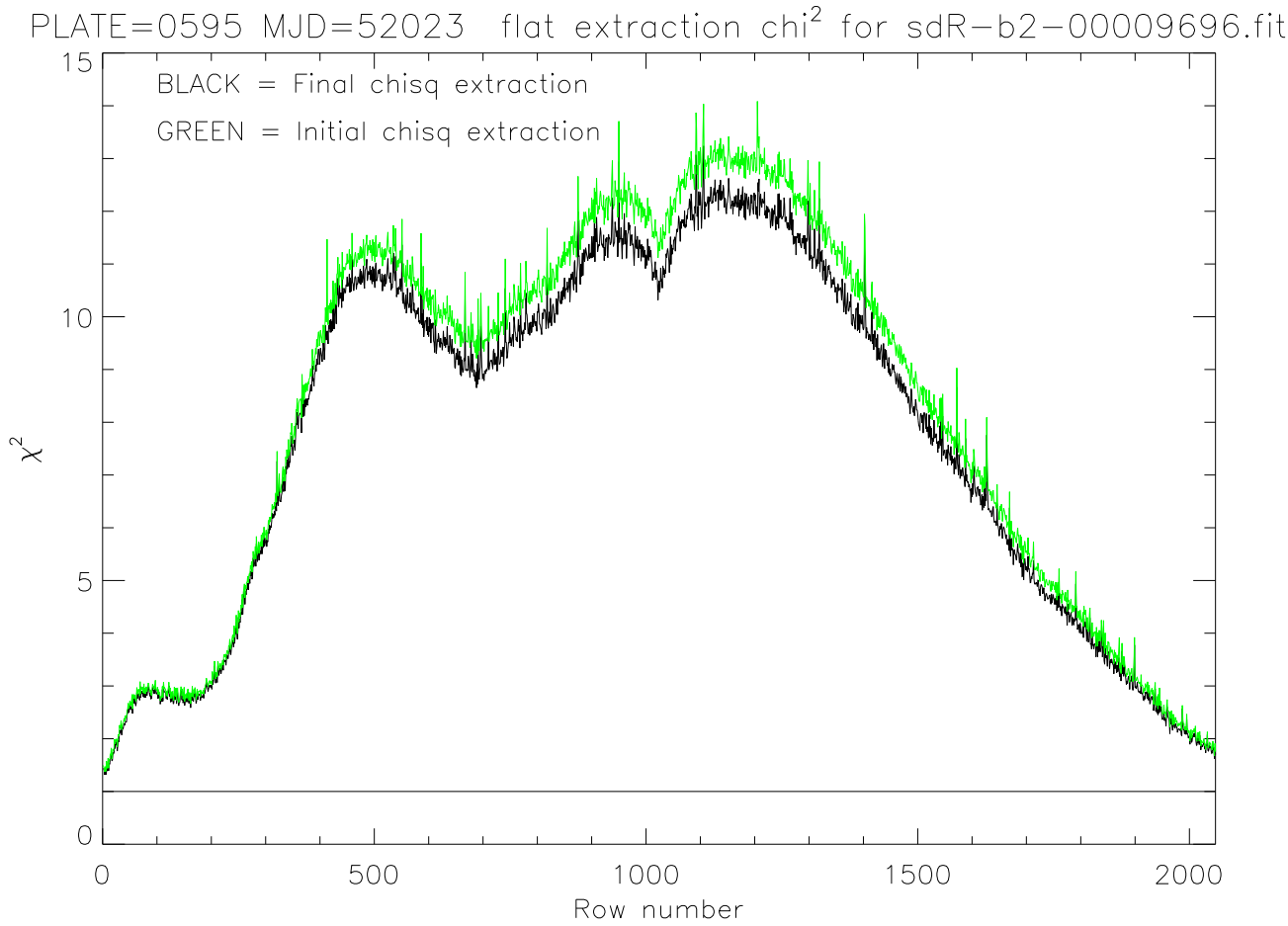

PLATE=0595 MJD=52023 sdR-b1-00009701.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 3.75 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

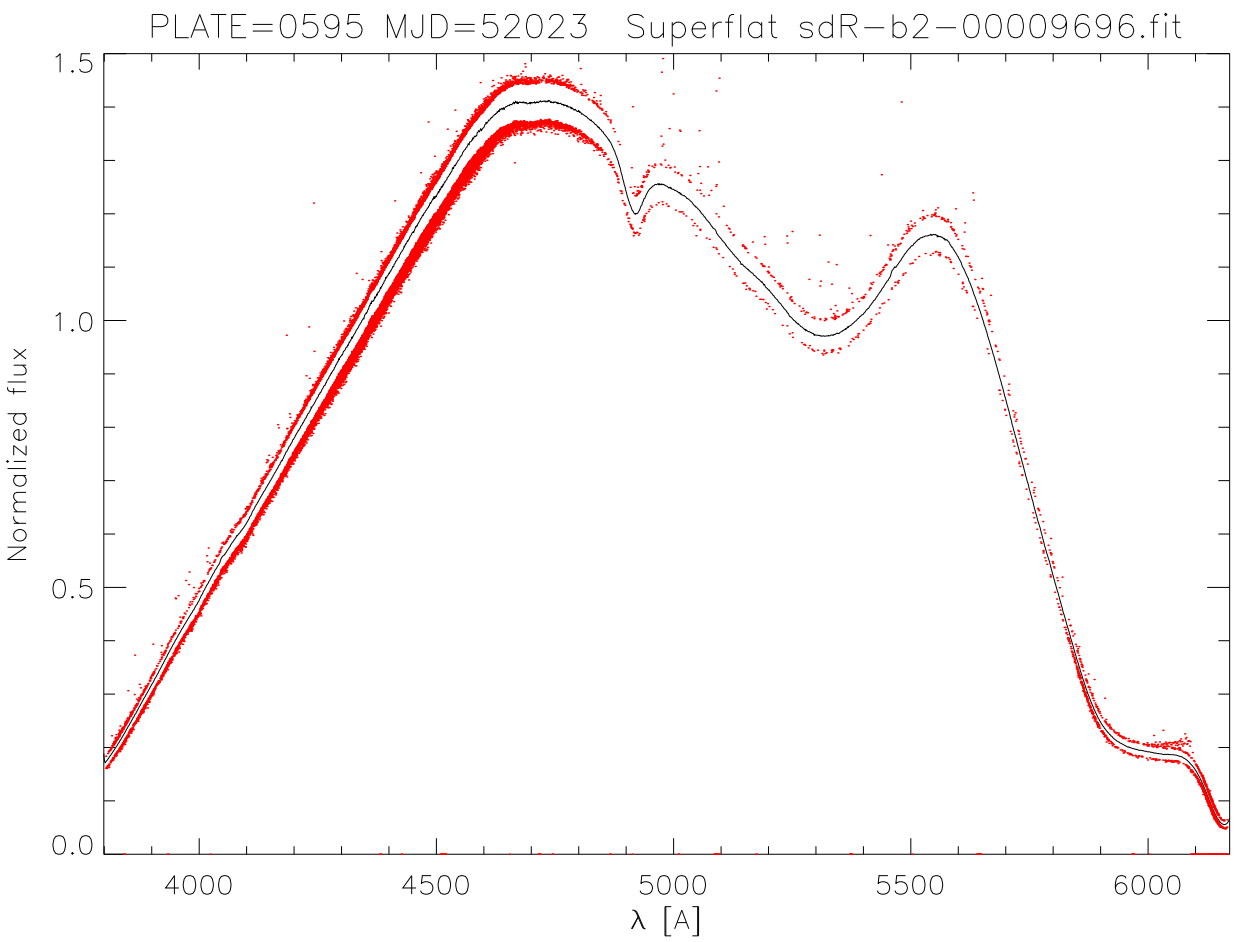

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

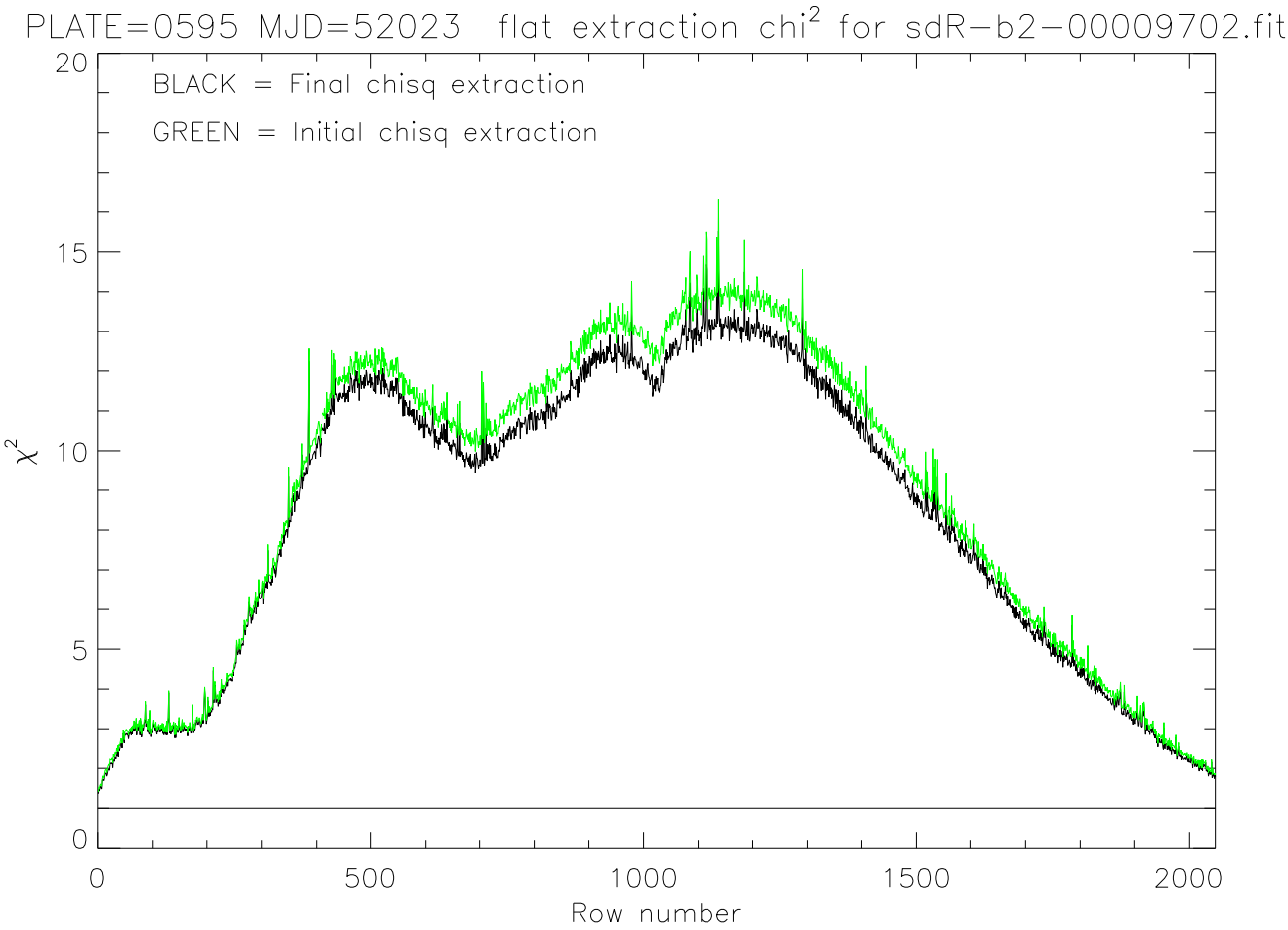

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

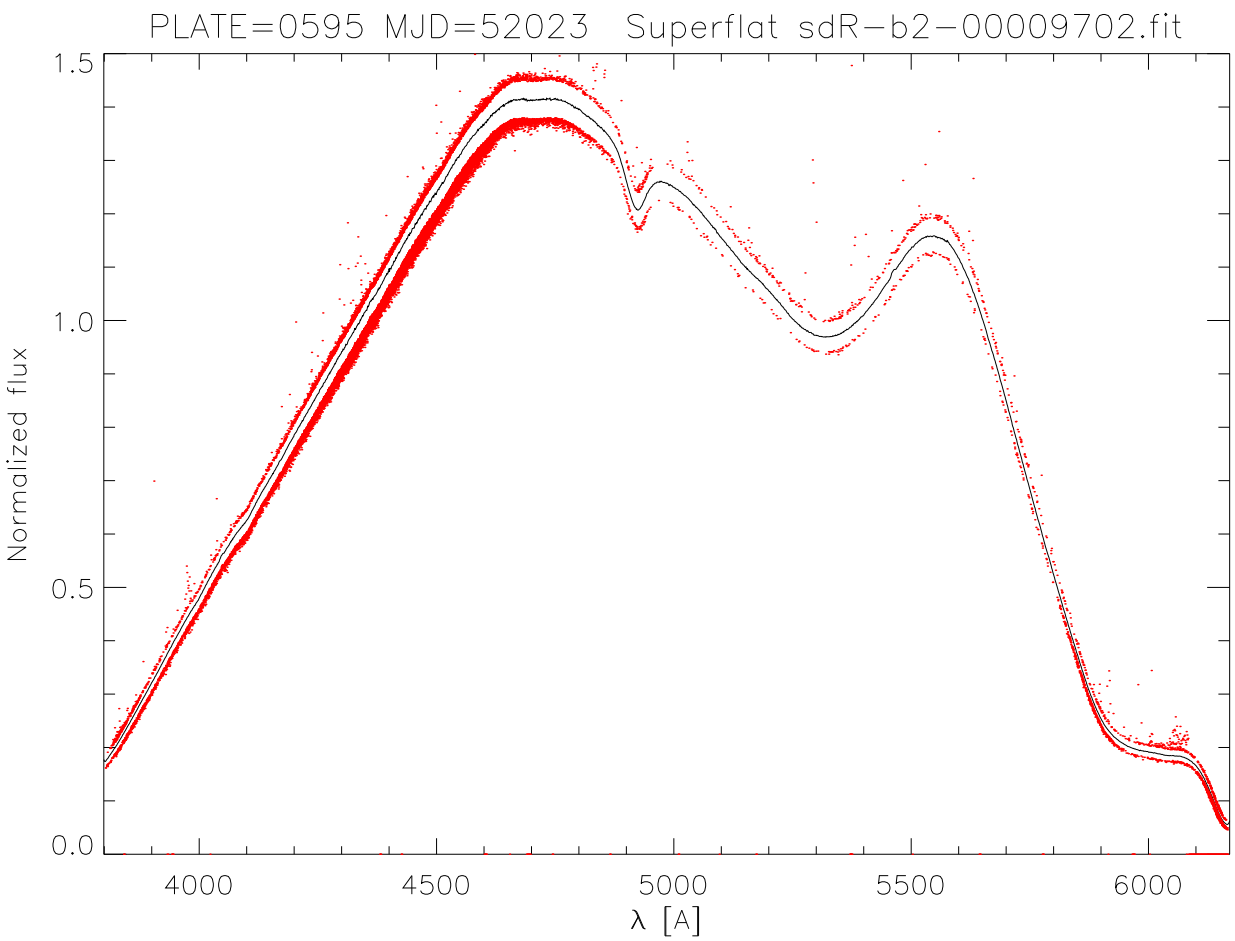

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

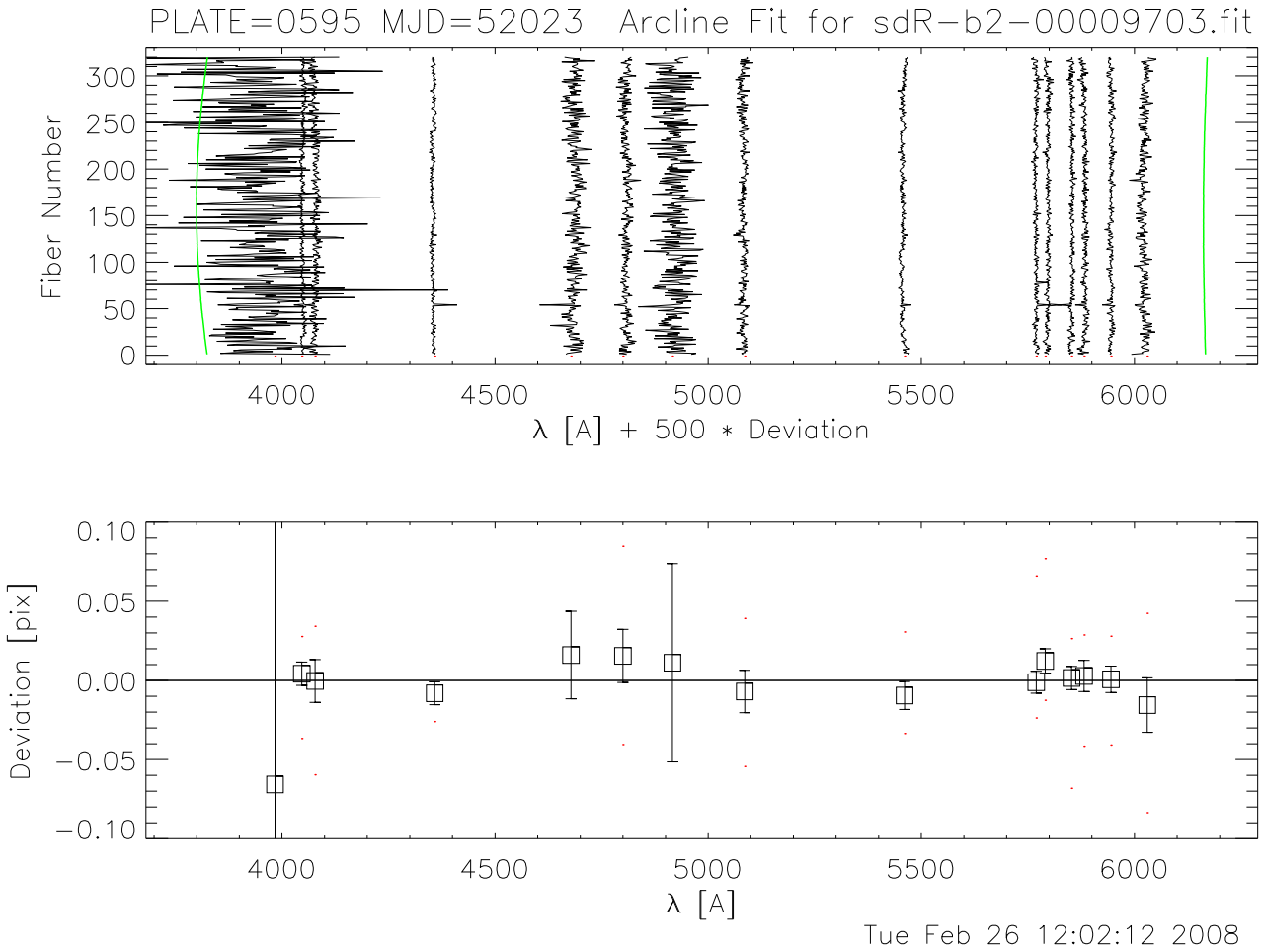

scale coeff residuals from ord=3 poly
2×10^-5
1×10^-5
0
−1×10^-5
−2×10^-5
0
50
100
150
200
250
300
fiber

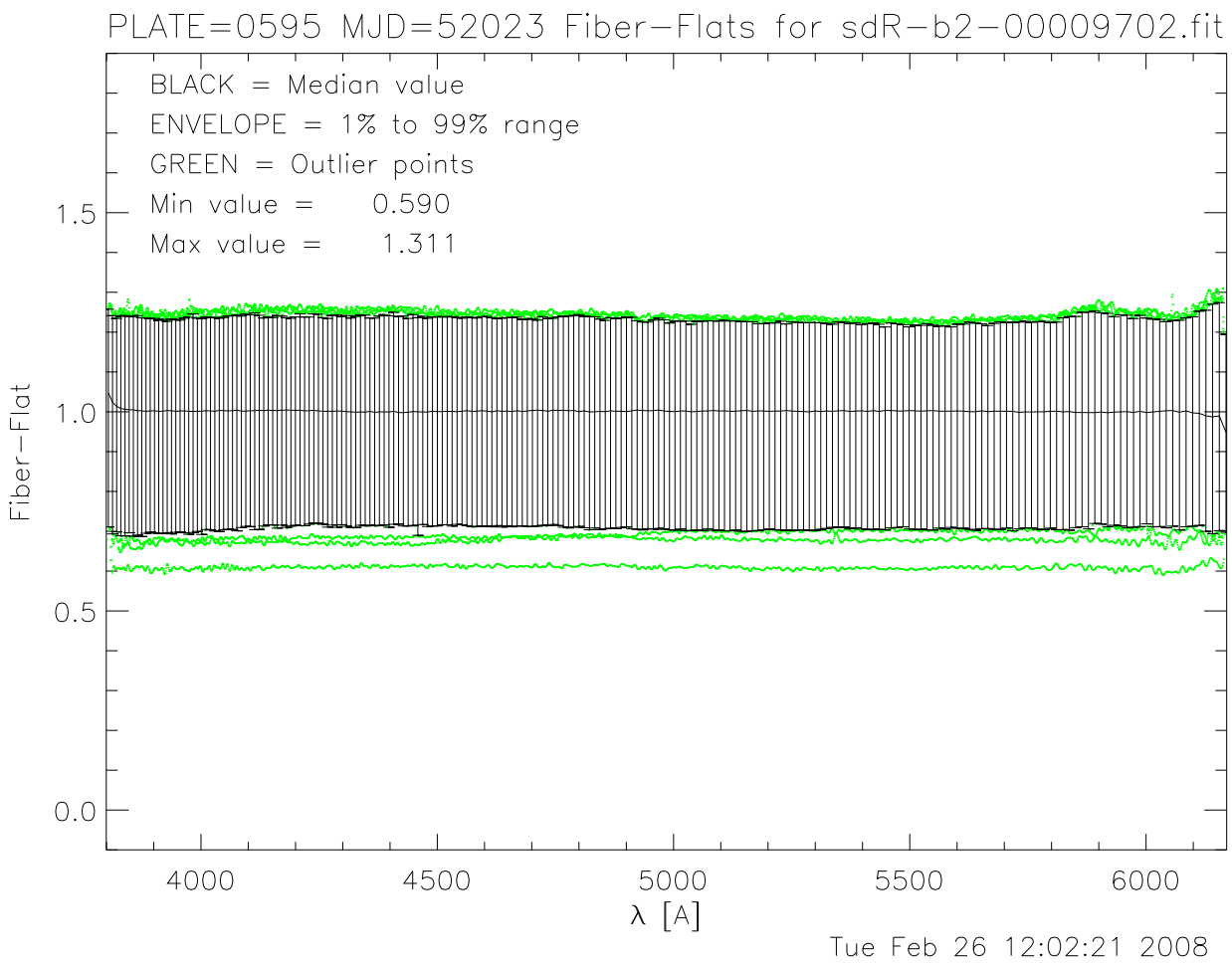

PLATE=0595 MJD=52023 flat extraction chi^2 for sdR−b2−00009696.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
15
10
5
0
0
500
1000
1500
2000
Row number

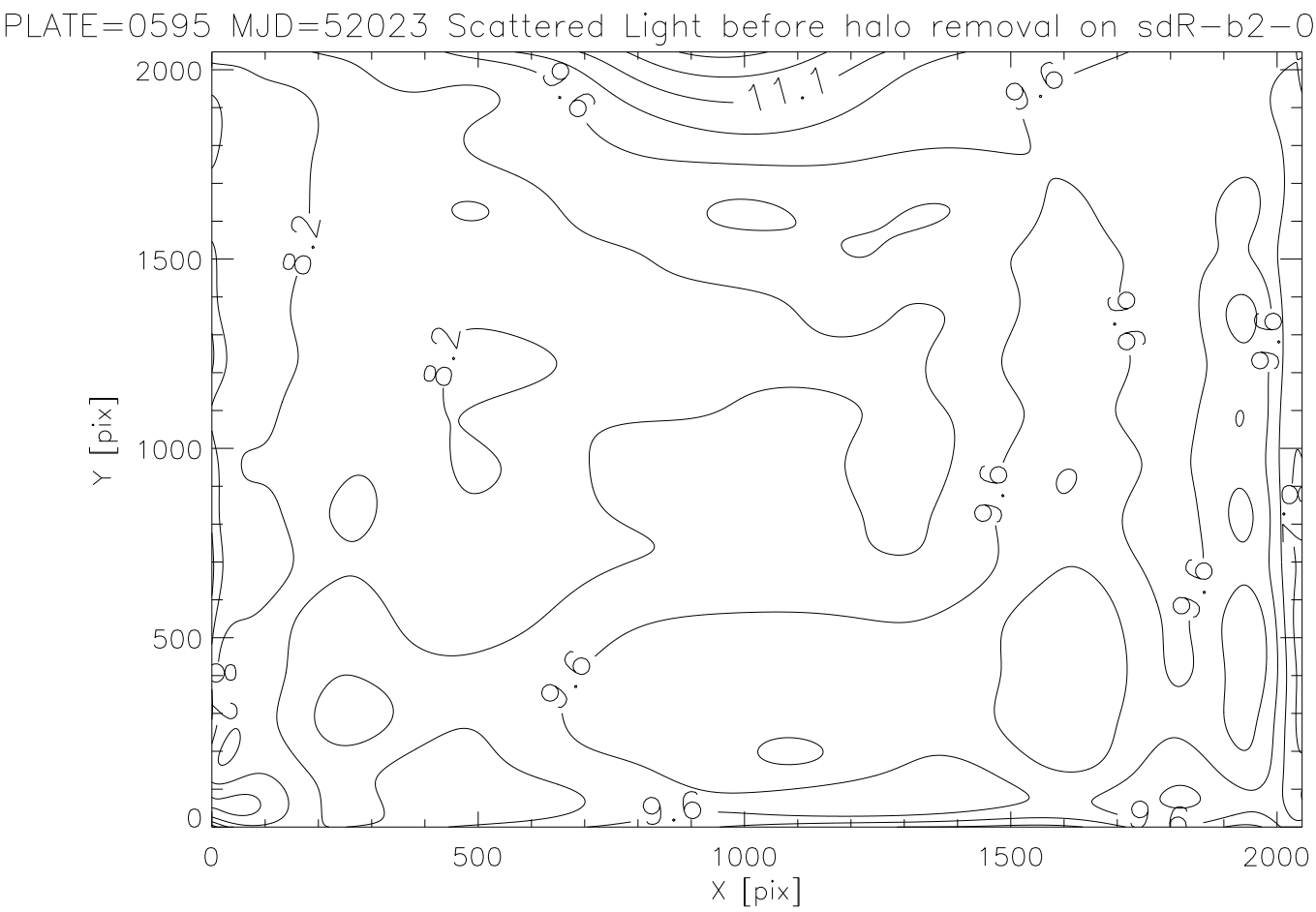

PLATE=0595 MJD=52023 Superflat sdR-b2-00009696.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

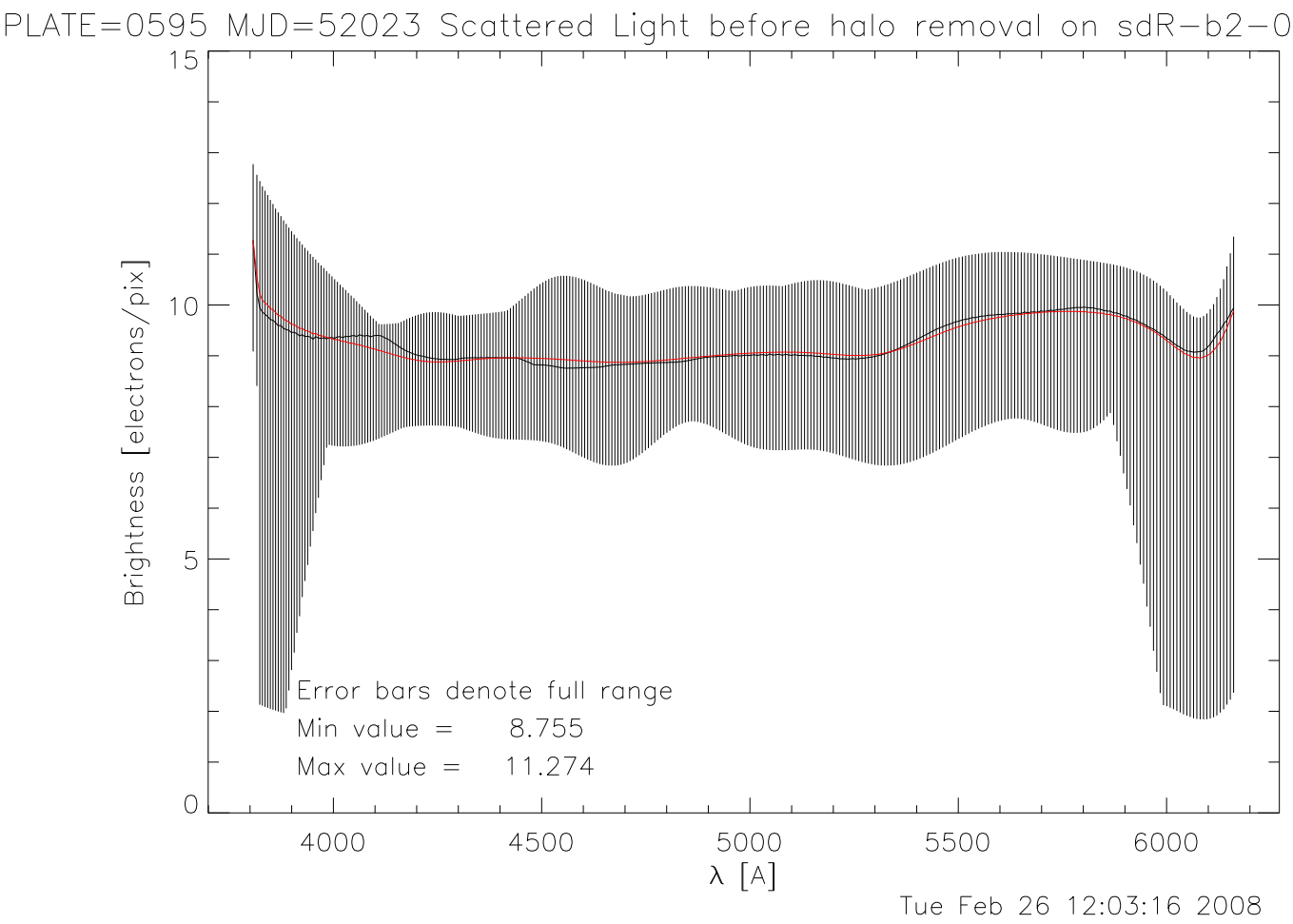

PLATE=0595 MJD=52023 flat extraction chi^2 for sdR−b2−00009702.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

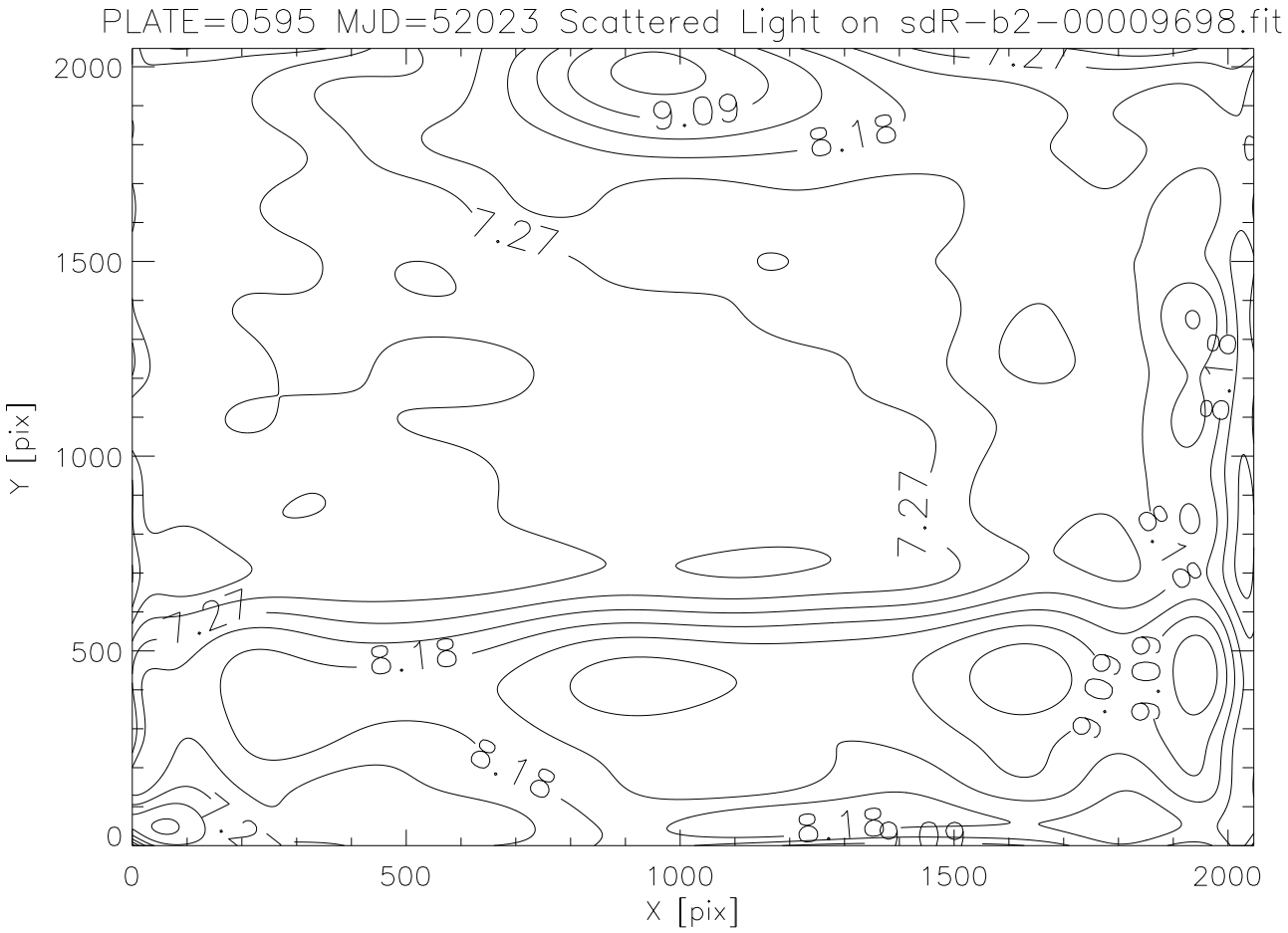

PLATE=0595 MJD=52023 Superflat sdR-b2-00009702.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

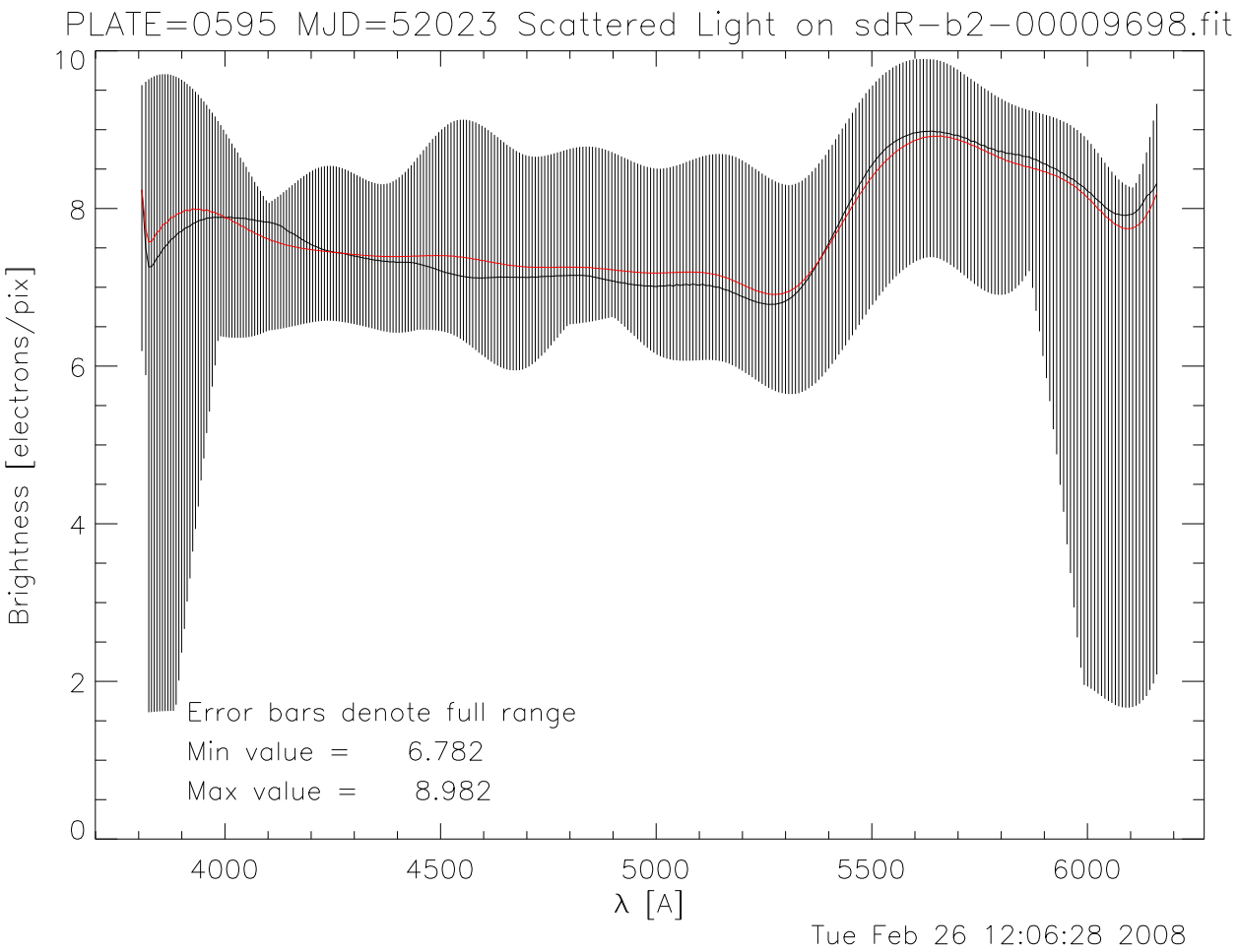

PLATE=0595 MJD=52023 Arcline Fit for sdR-b2-00009703.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 12:02:12 2008

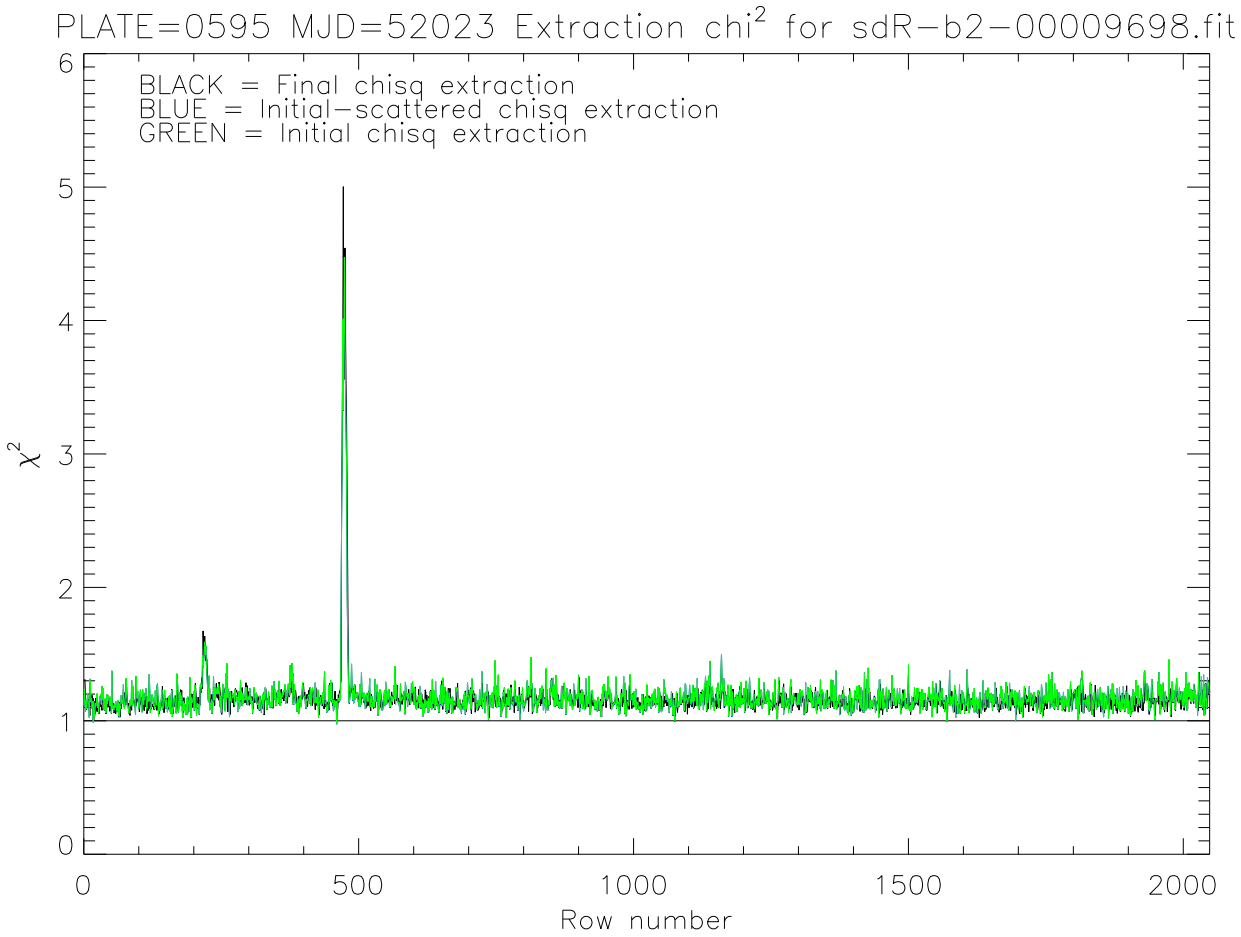

PLATE=0595 MJD=52023 Fiber-Flats for sdR-b2-00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.590
Max value = 1.311
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 12:02:21 2008

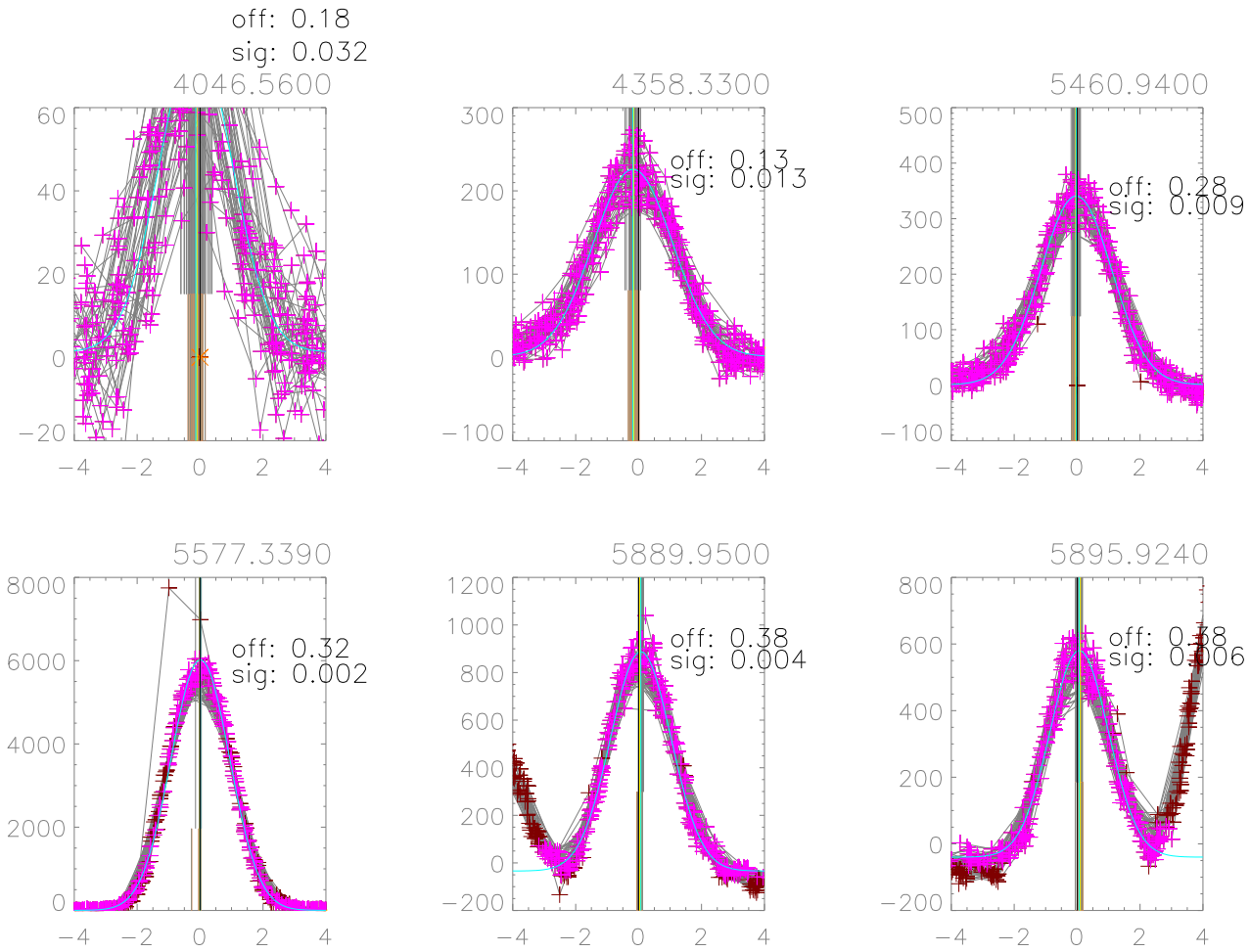

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR−b2−00009698.f
Y [pix]
X [pix]
0
500
1000
1500
2000
8.2
9.6
11.1

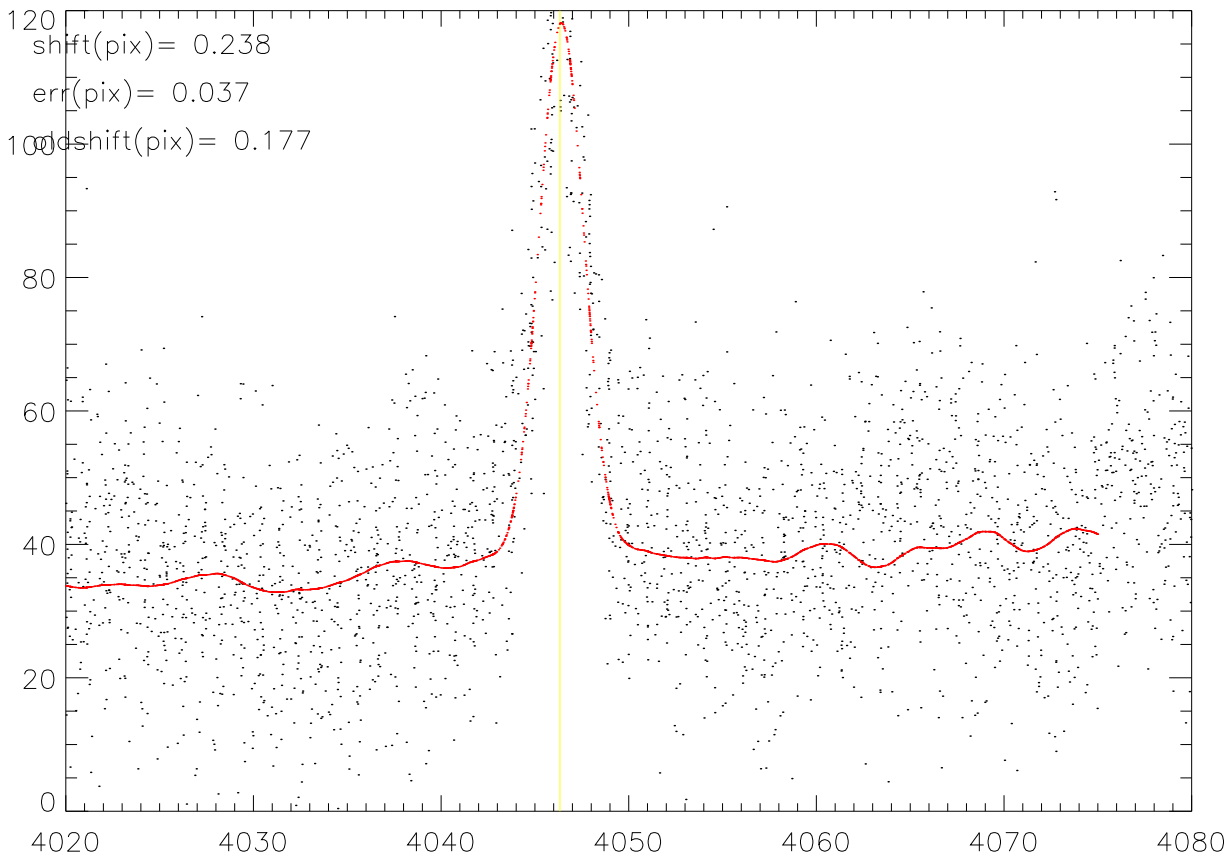

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-b2-00009698.f
15
10
5
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 8.755
Max value = 11.274
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 12:03:16 2008

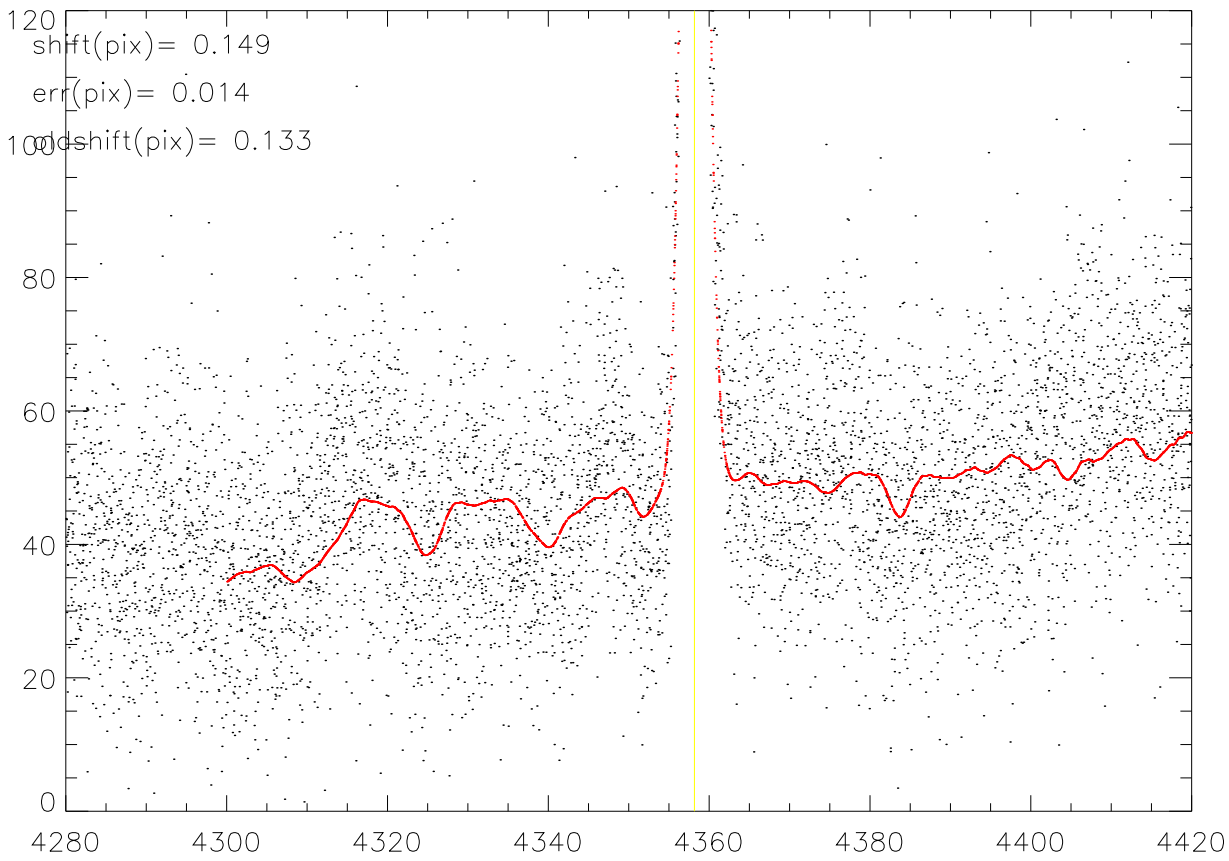

PLATE=0595 MJD=52023 Scattered Light on sdR-b2-00009698.fit
9.09
8.18
7.27
Y [pix]
X [pix]
0
500
1000
1500
2000

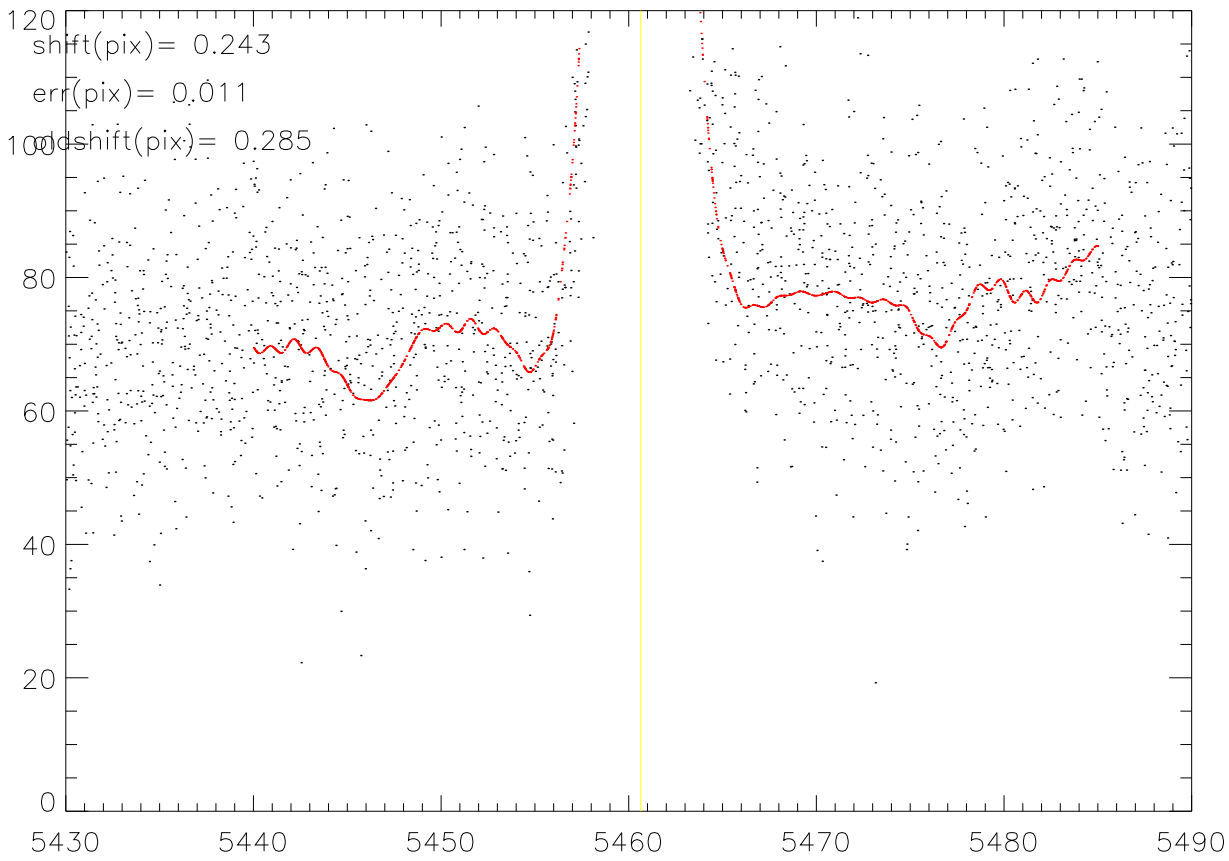

PLATE=0595 MJD=52023 Scattered Light on sdR-b2-00009698.fit
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 6.782
Max value = 8.982
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 12:06:28 2008

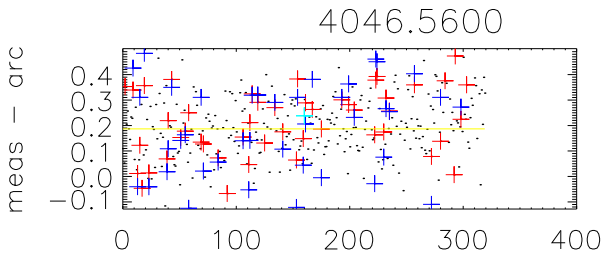

PLATE=0595 MJD=52023 Extraction chi^2 for sdR-b2-00009698.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

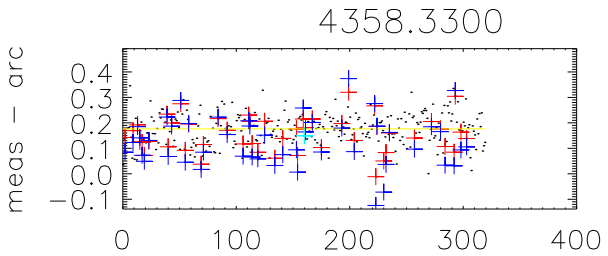

off: 0.18
sig: 0.032
4046.5600
4358.3300
off: 0.13
sig: 0.013
5460.9400
off: 0.28
sig: 0.009
5577.3390
off: 0.32
sig: 0.002
5889.9500
off: 0.38
sig: 0.004
5895.9240
off: 0.38
sig: 0.006

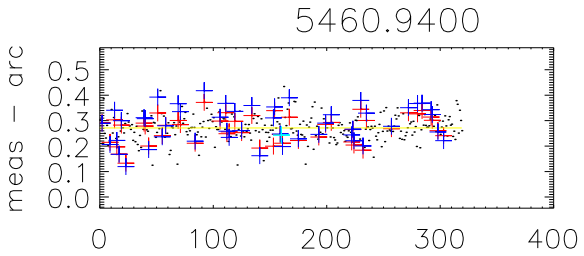

shift(pix)= 0.238
err(pix)= 0.037
oldshift(pix)= 0.177
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

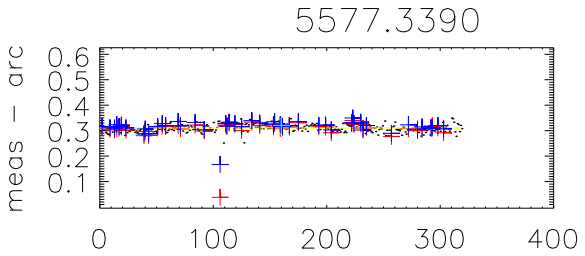

shift(pix)= 0.149
err(pix)= 0.014
oldshift(pix)= 0.133
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

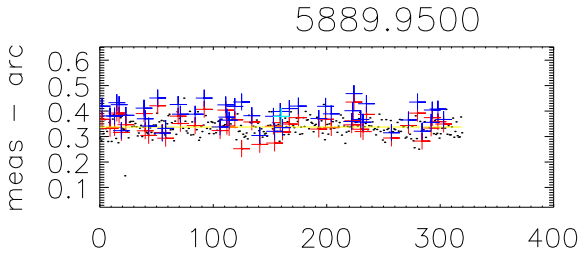

shift(pix)= 0.243
err(pix)= 0.011
oldshift(pix)= 0.285
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

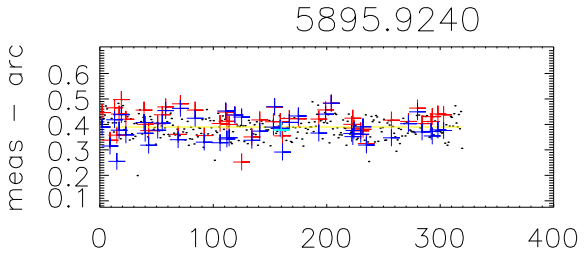

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

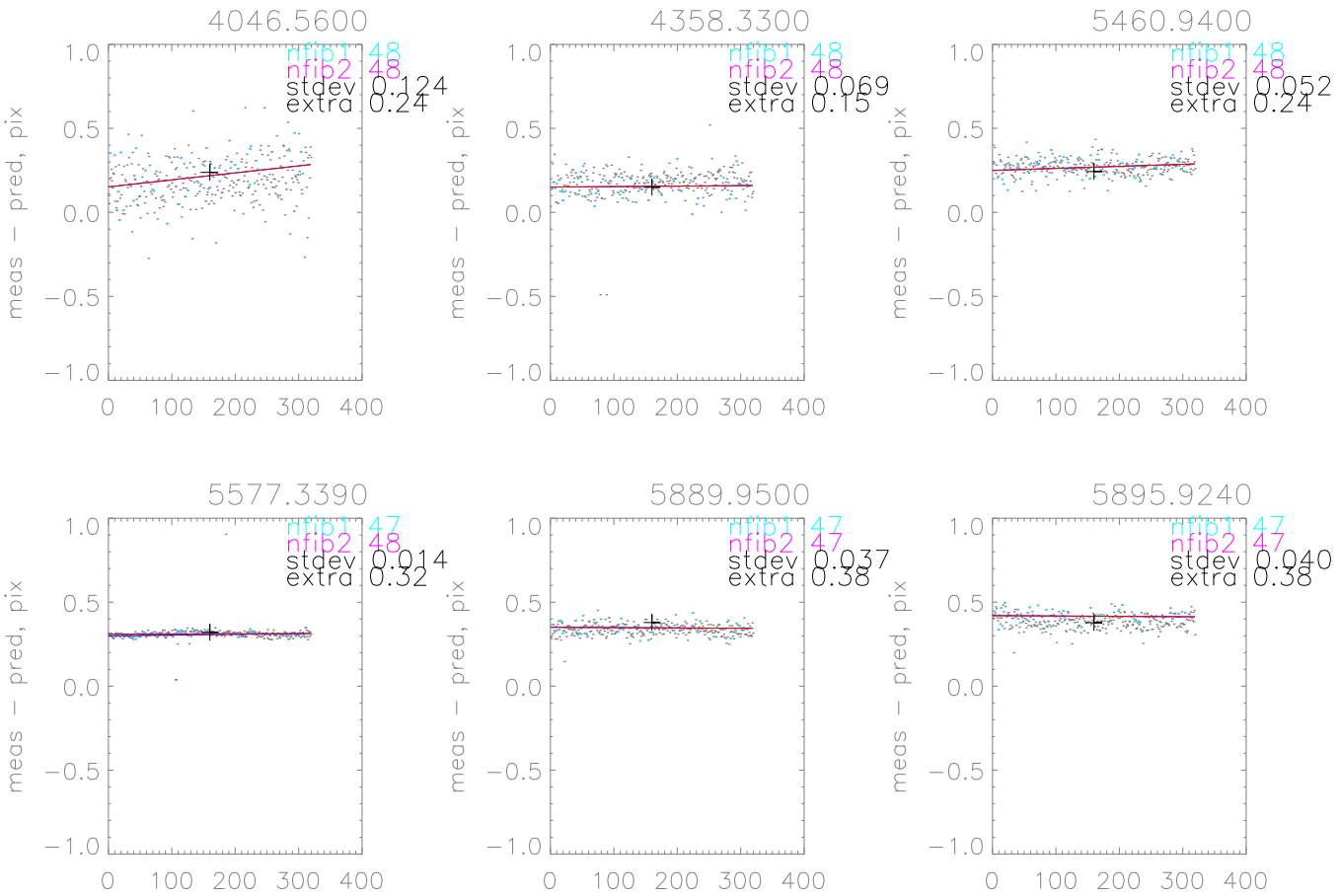

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

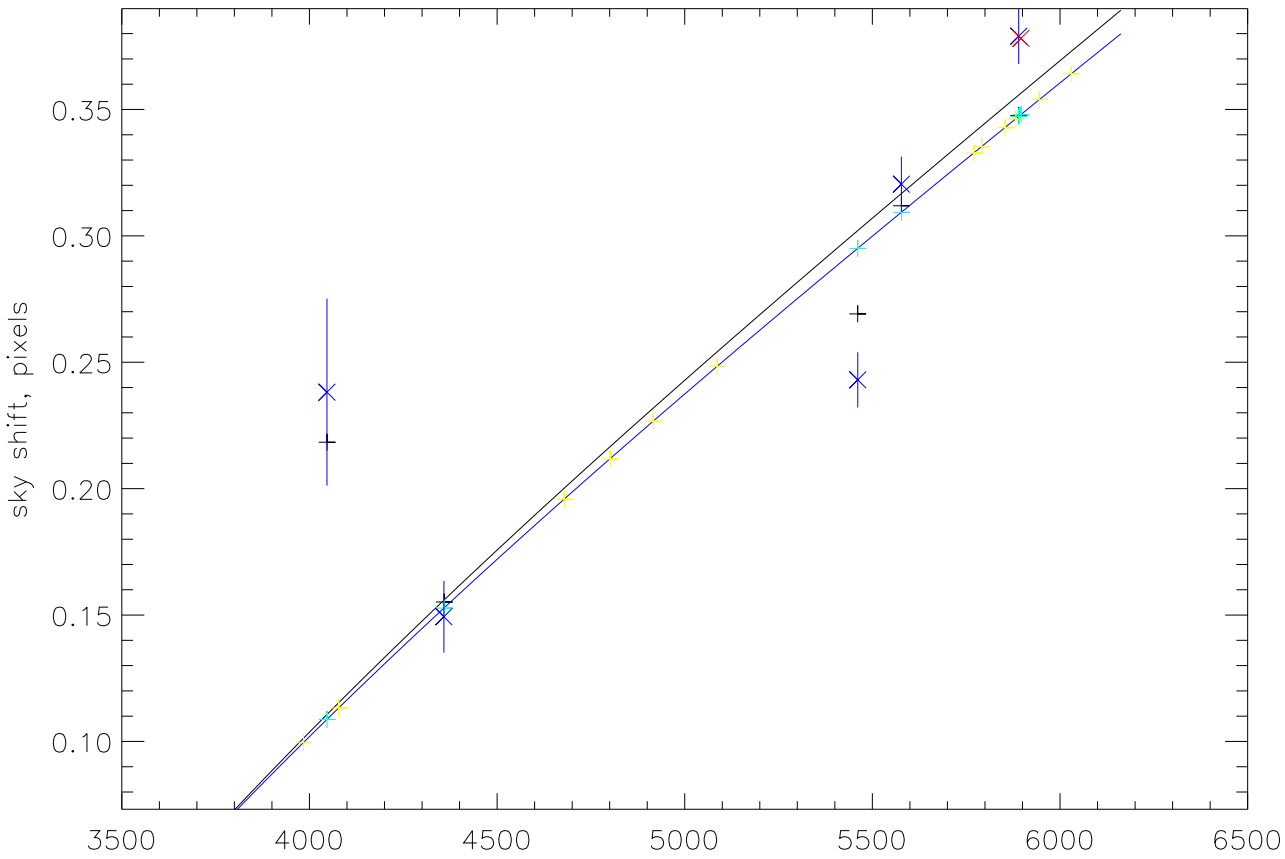

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

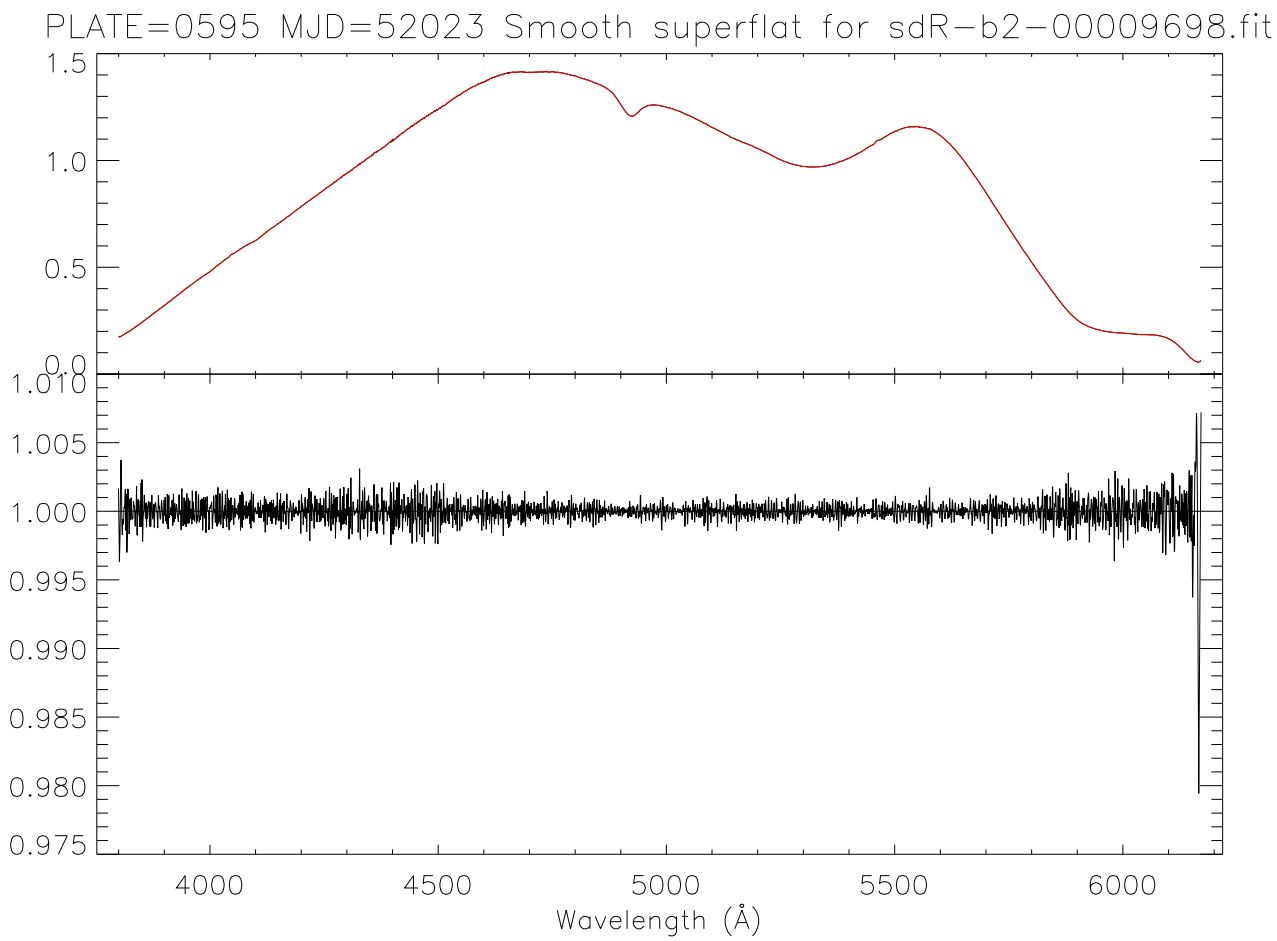

5889.9500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

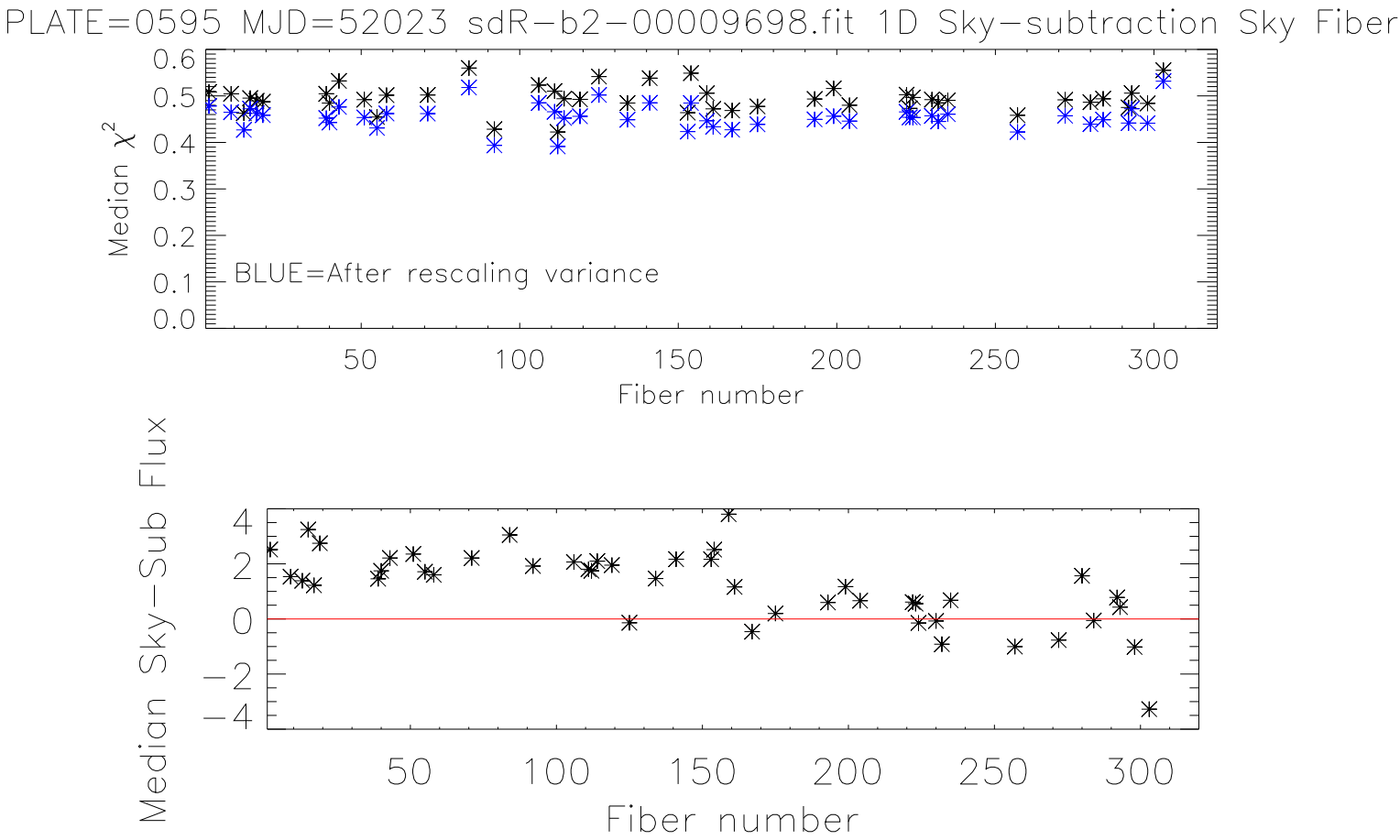

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

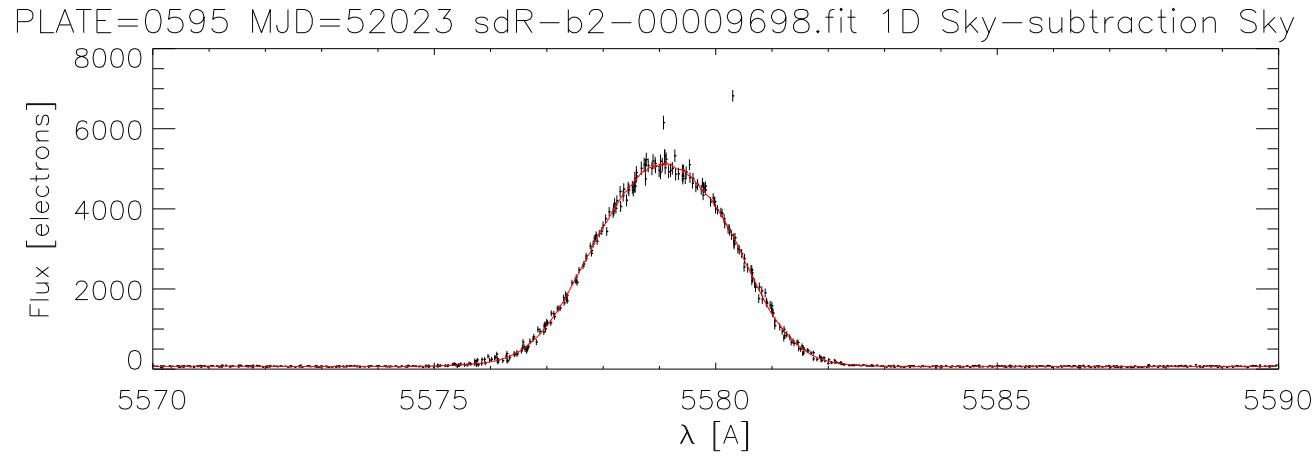

4046.5600
nfib1 48
nfib2 48
stdev 0.124
extra 0.24
4358.3300
nfib1 48
nfib2 48
stdev 0.069
extra 0.15
5460.9400
nfib1 48
nfib2 48
stdev 0.052
extra 0.24
5577.3390
nfib1 47
nfib2 48
stdev 0.014
extra 0.32
5889.9500
nfib1 47
nfib2 47
stdev 0.037
extra 0.38
5895.9240
nfib1 47
nfib2 47
stdev 0.040
extra 0.38
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

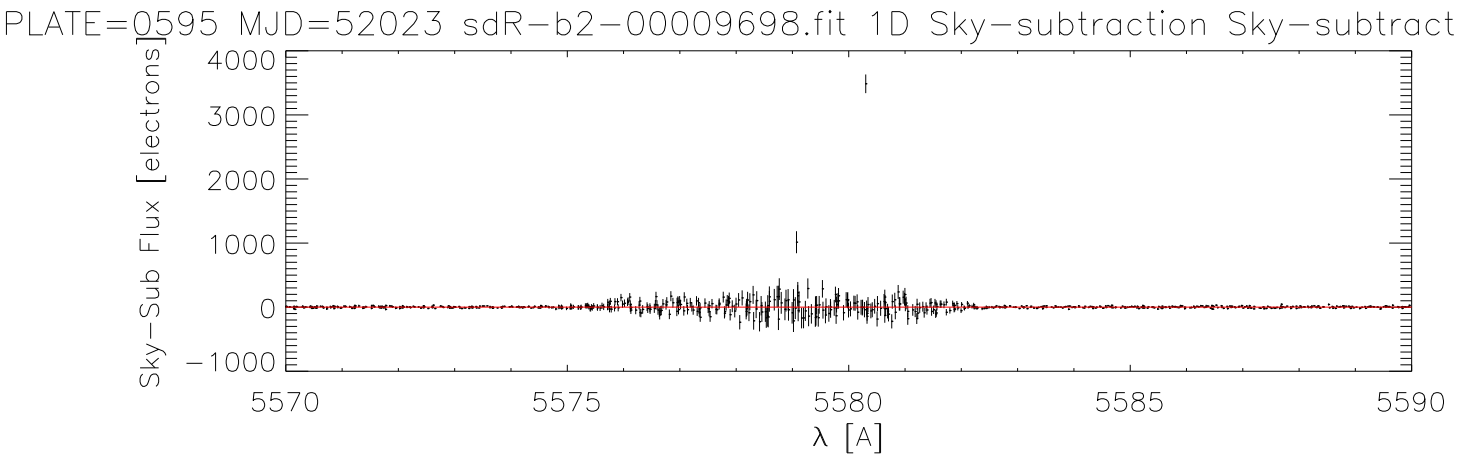

sky shift, pixels
0.10
0.15
0.20
0.25
0.30
0.35
3500
4000
4500
5000
5500
6000
6500

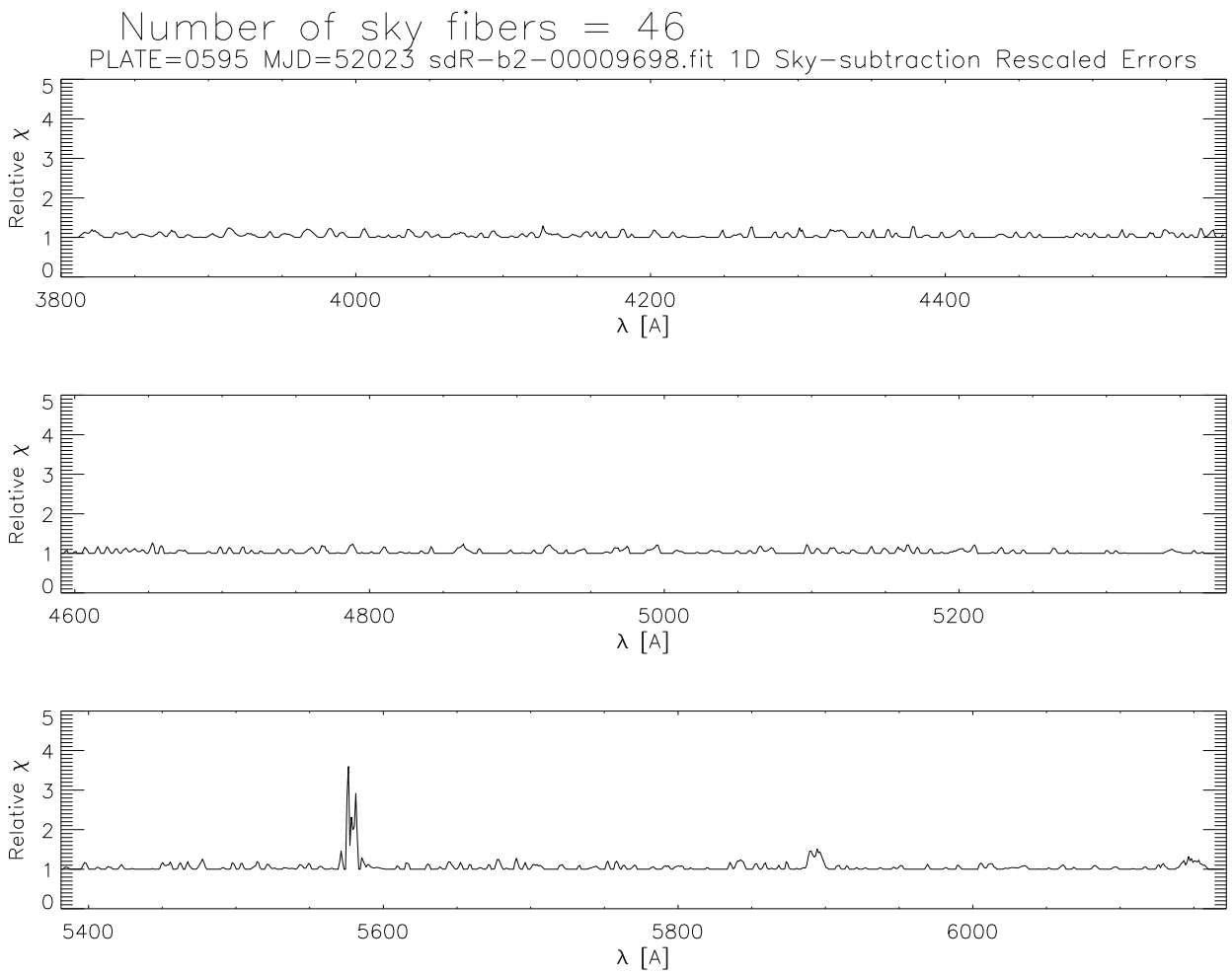
es= 0.0000

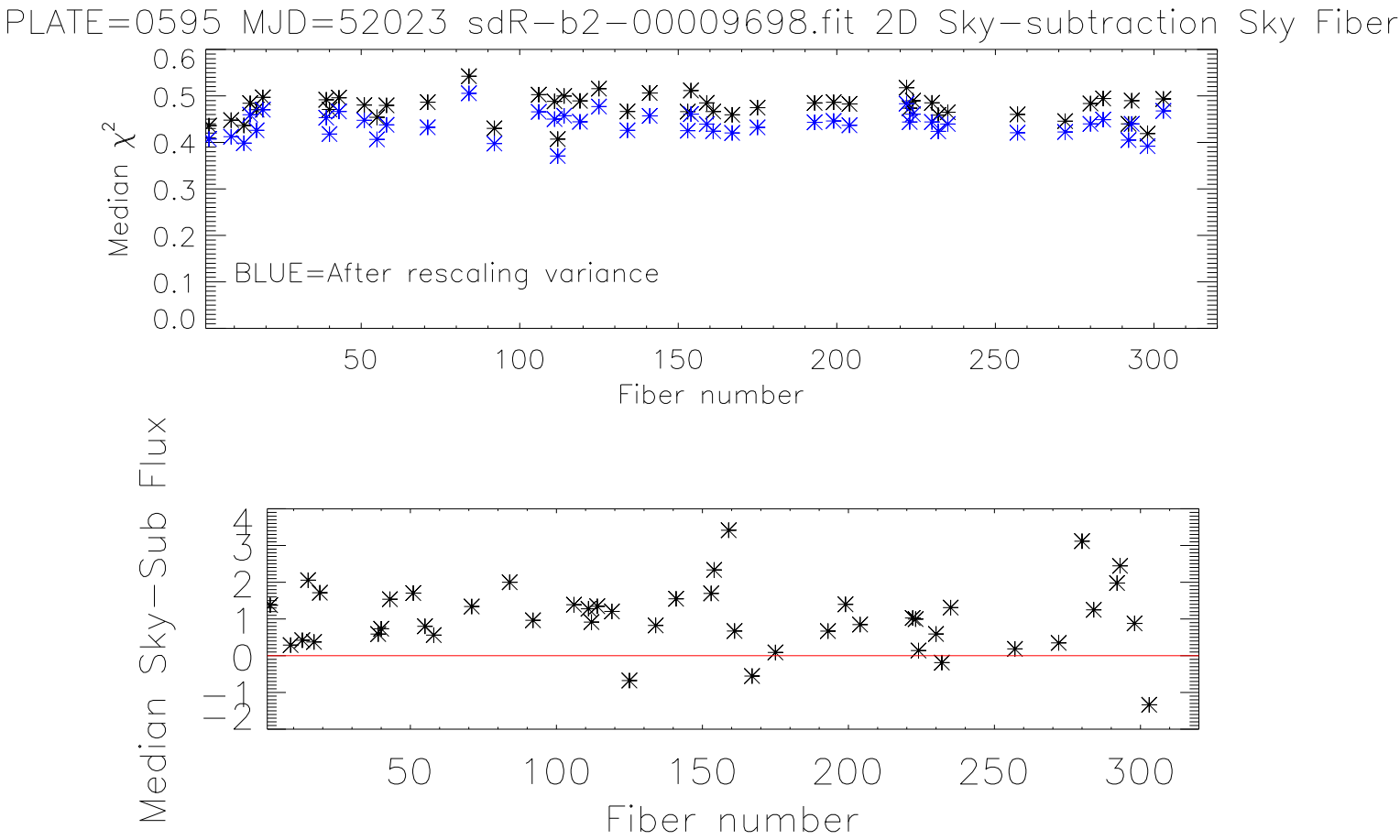

PLATE=0595 MJD=52023 Smooth superflat for sdR-b2-00009698.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
0.975
4000
4500
5000
5500
6000
Wavelength (Å)

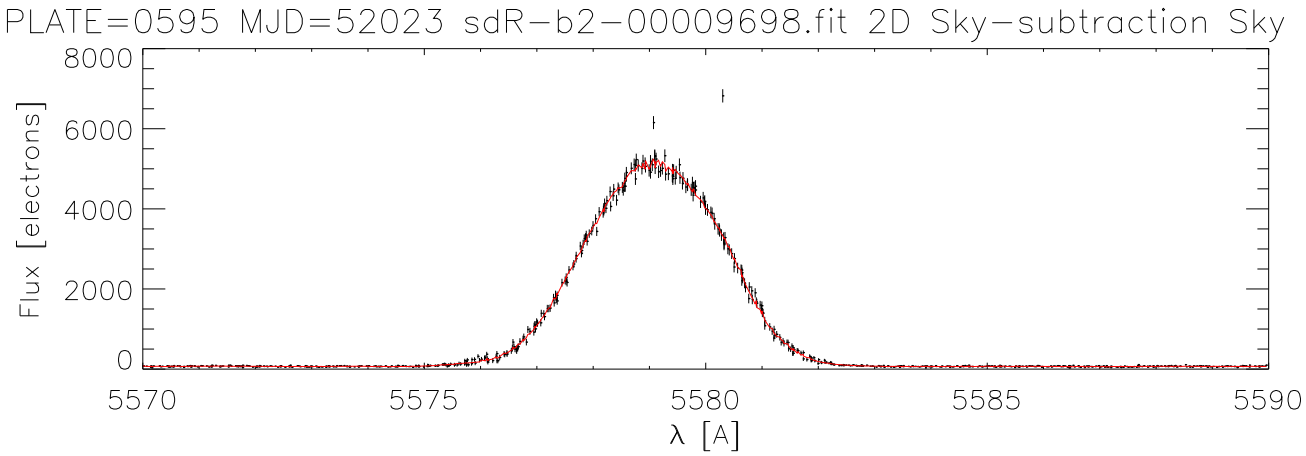

PLATE=0595 MJD=52023 sdR-b2-00009698.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

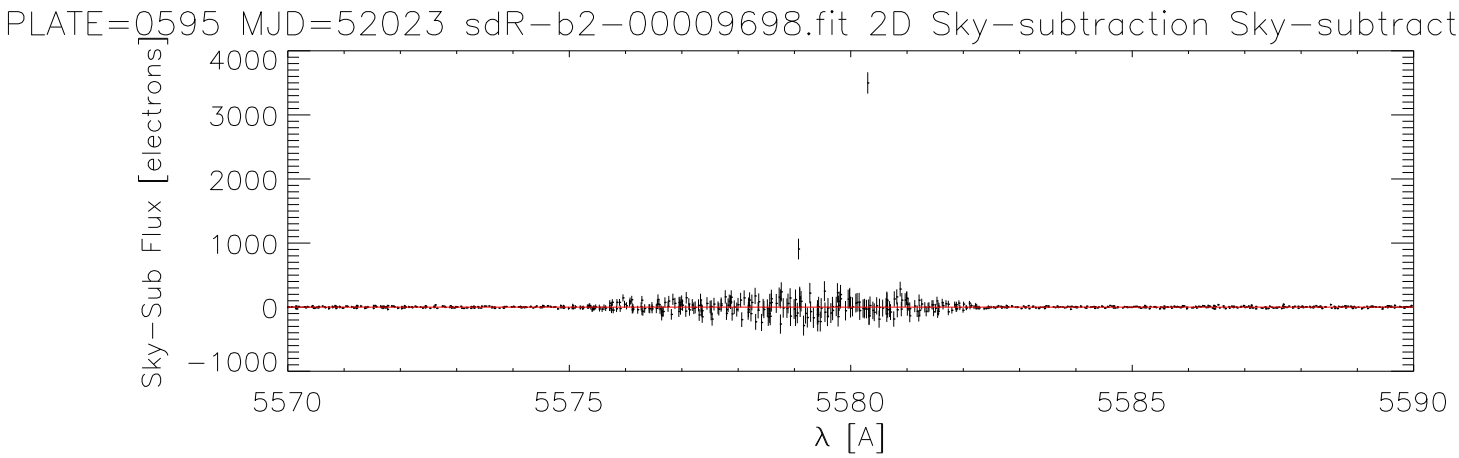

PLATE=0595 MJD=52023 sdR-b2-00009698.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

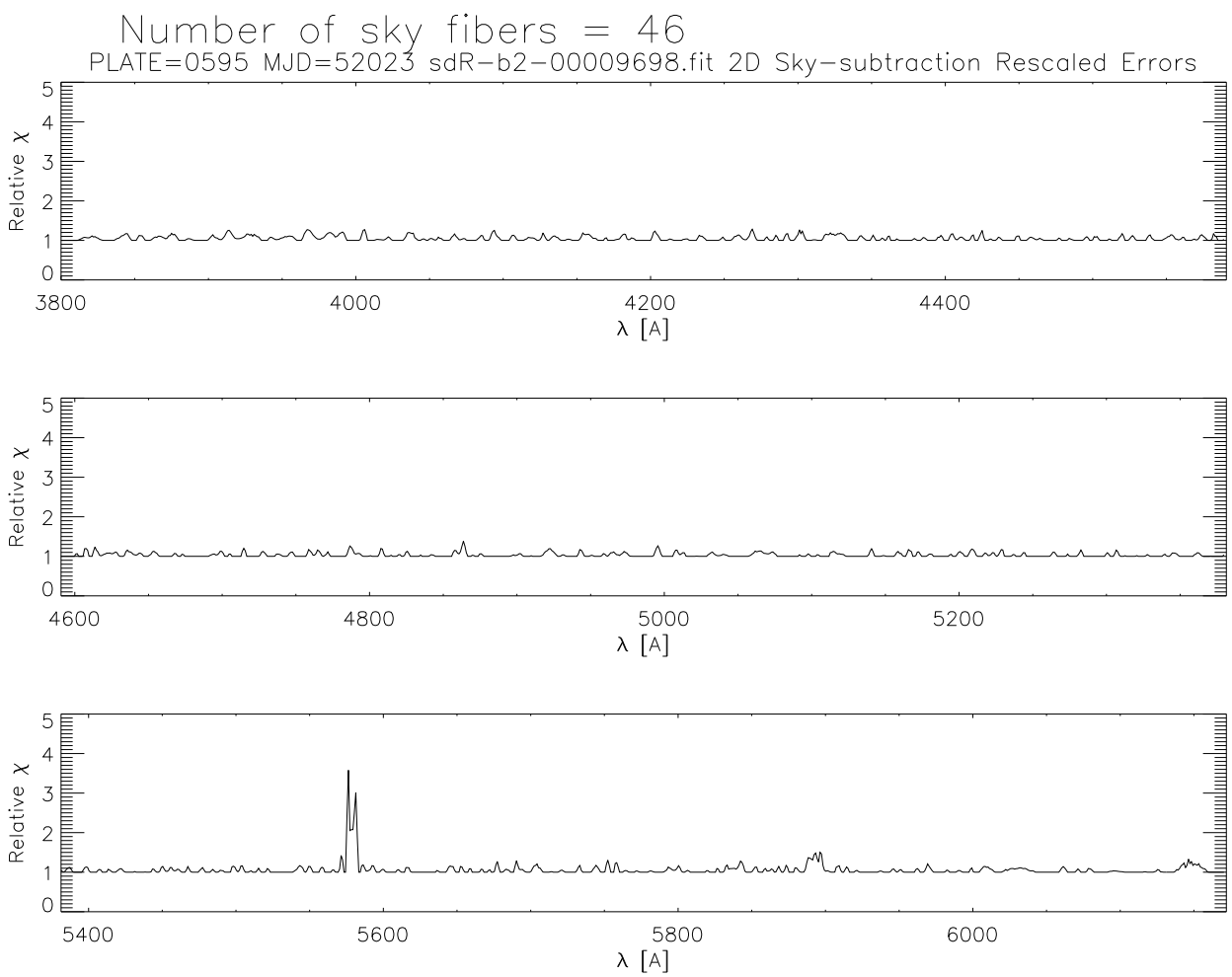

PLATE=0595 MJD=52023 sdR-b2-00009698.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

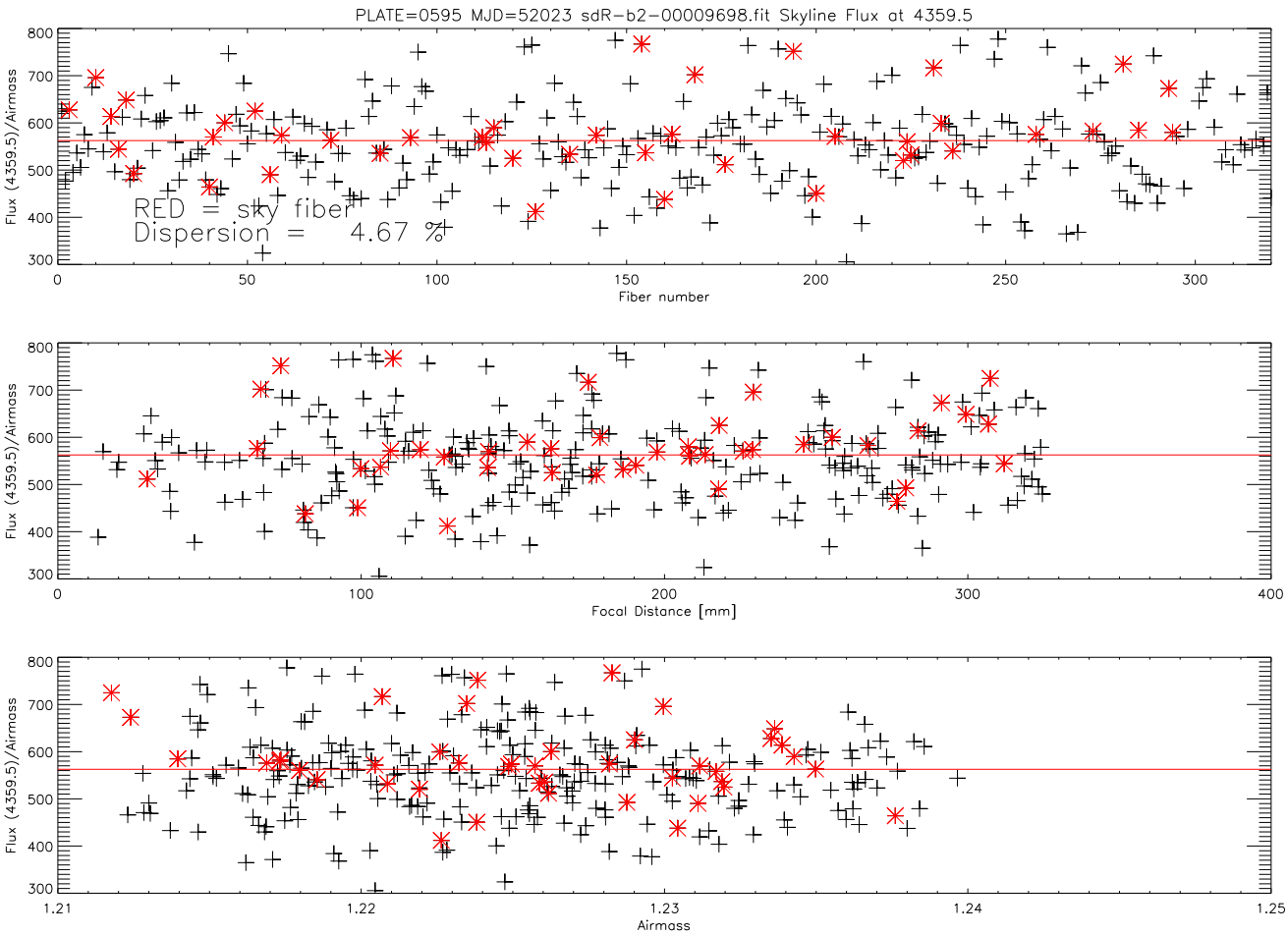

Number of sky fibers = 46
PLATE=0595 MJD=52023 sdR-b2-00009698.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5


PLATE=0595 MJD=52023 sdR-b2-00009698.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=0595 MJD=52023 sdR-b2-00009698.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

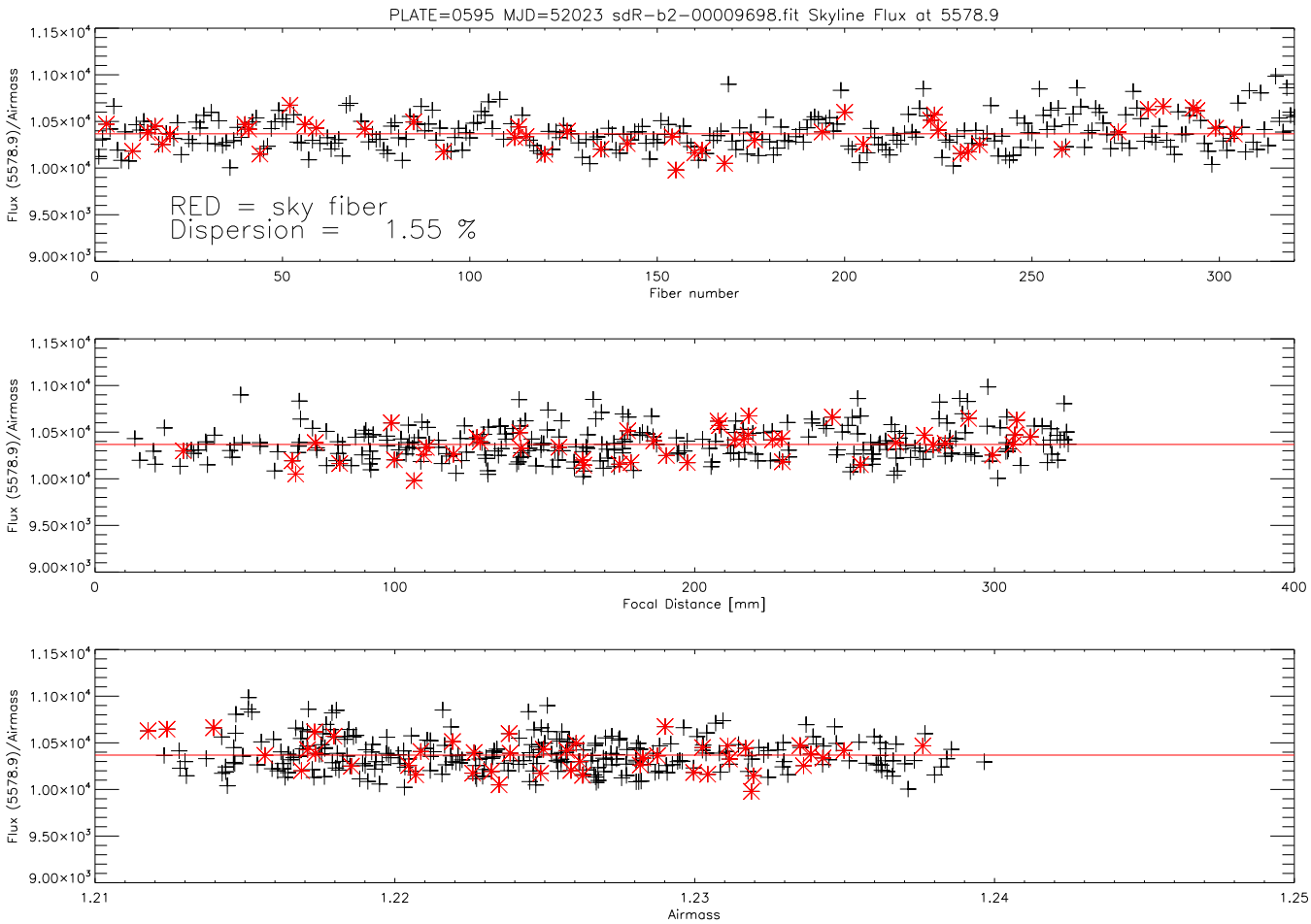

PLATE=0595 MJD=52023 sdR-b2-00009698.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
5570
5575
5580
5585
5590
λ [A]

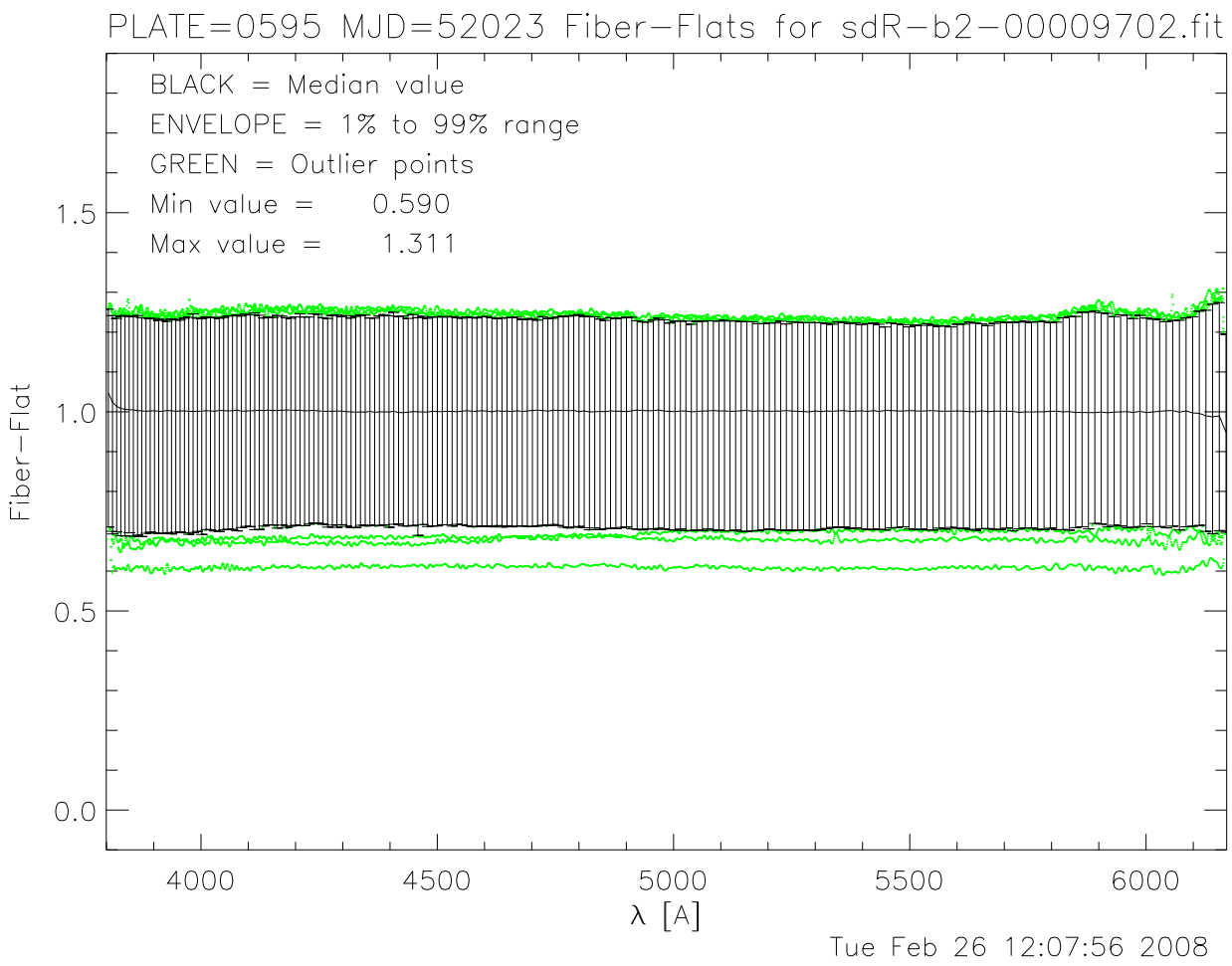

Number of sky fibers = 46
PLATE=0595 MJD=52023 sdR-b2-00009698.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

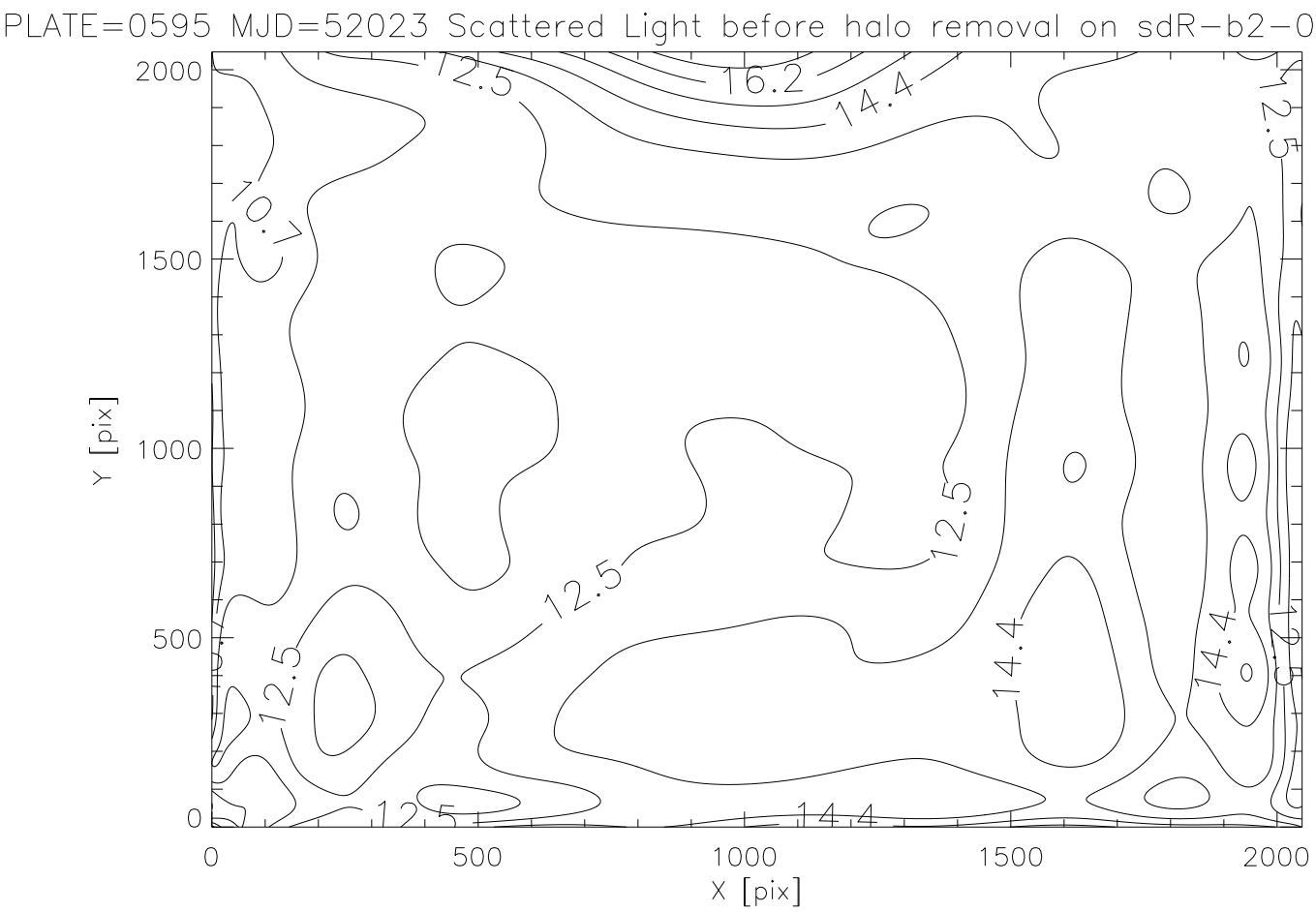

PLATE=0595 MJD=52023 sdR-b2-00009698.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 4.67 %

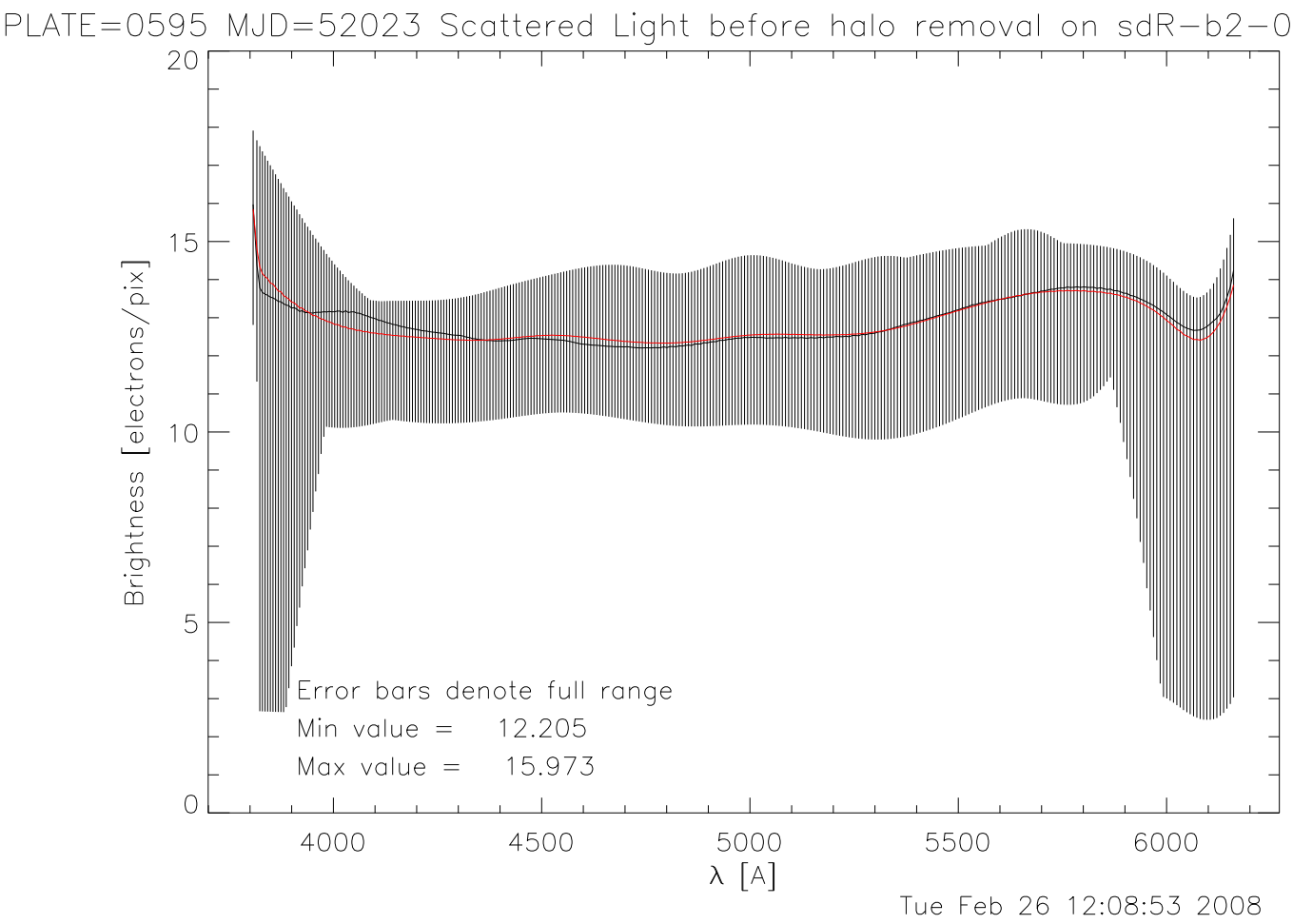
Flux (4359.5)/Airmass
Focal Distance [mm]

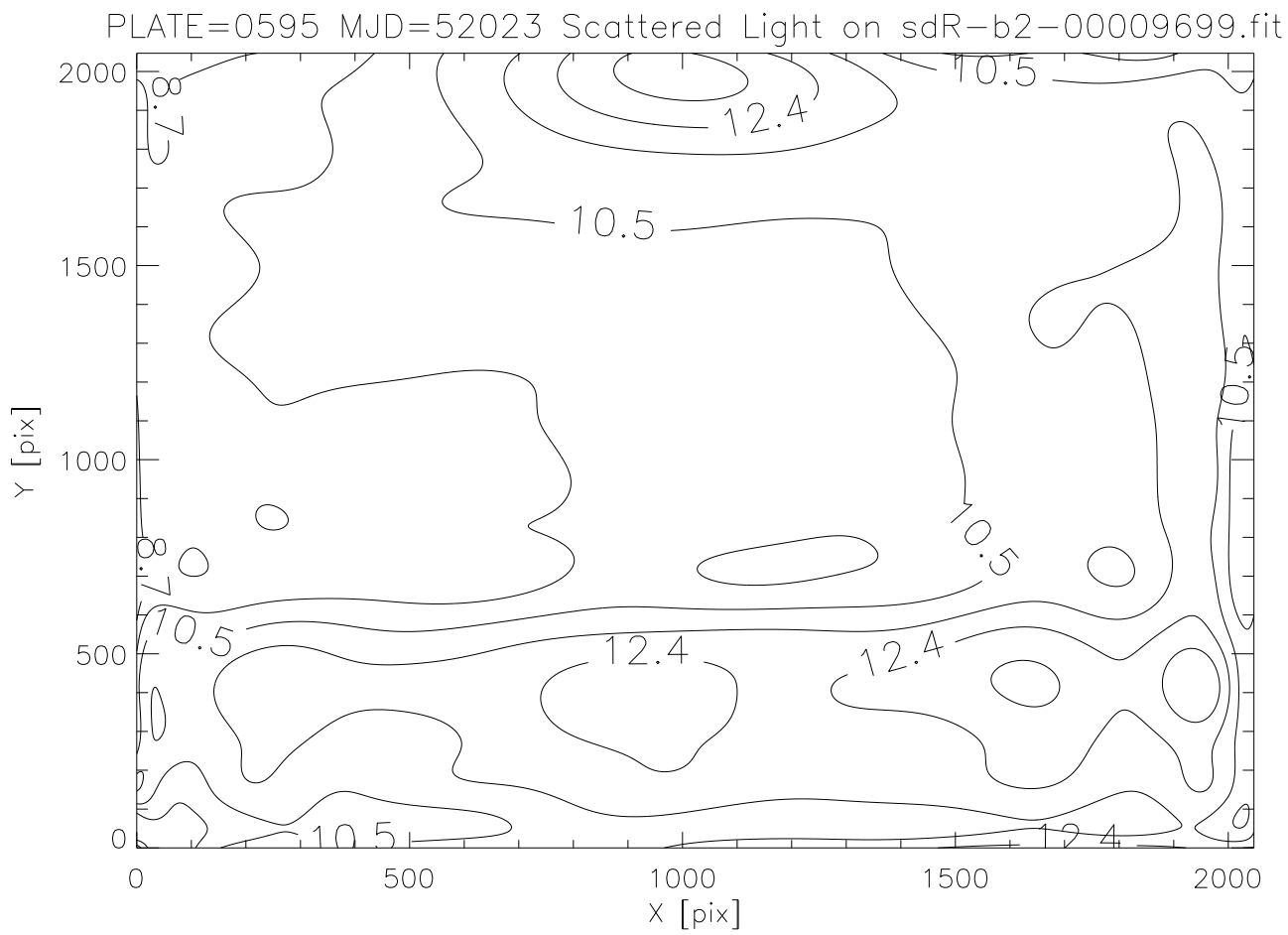
Flux (4359.5)/Airmass
Airmass

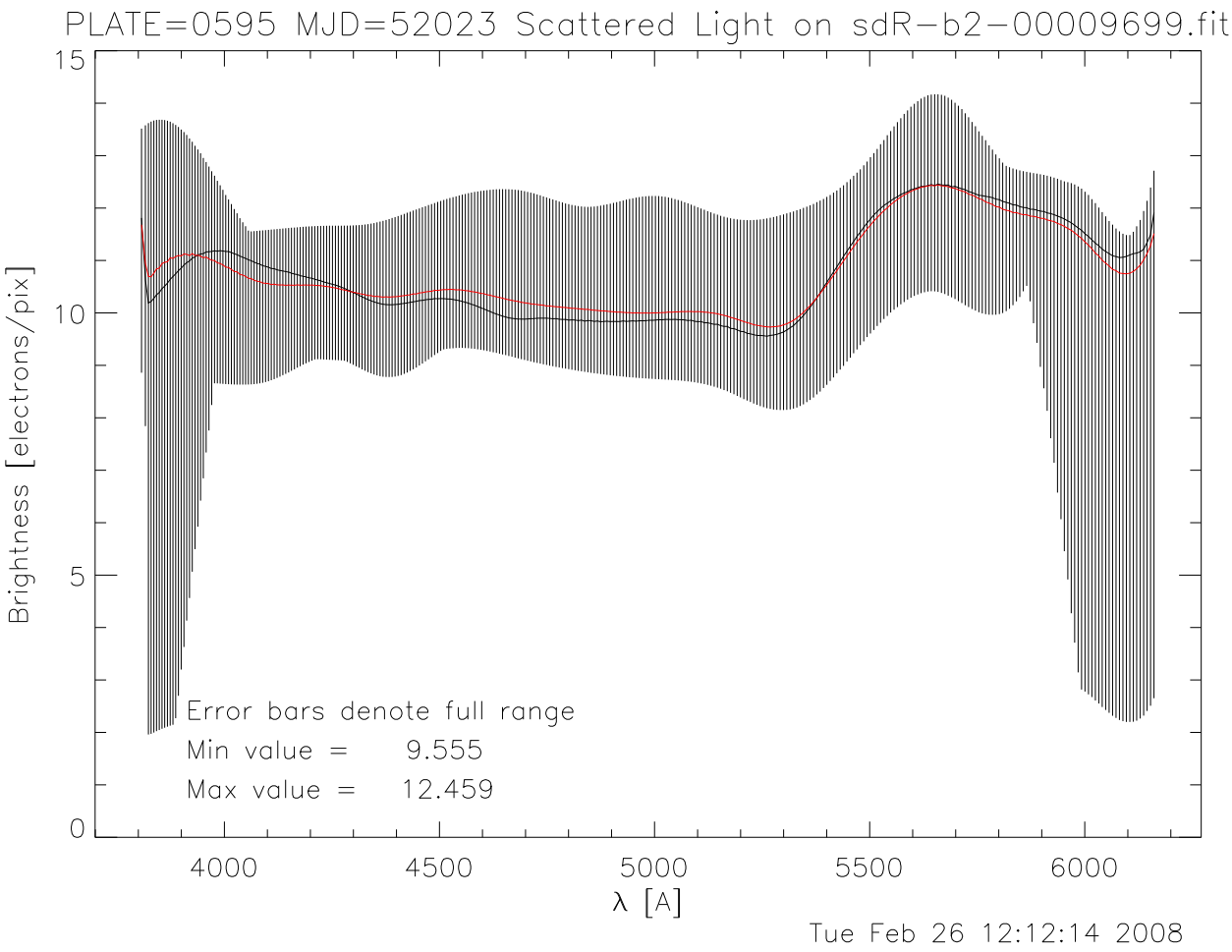

PLATE=0595 MJD=52023 sdR-b2-00009698.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.55 %
Fiber number
Focal Distance [mm]
Airmass

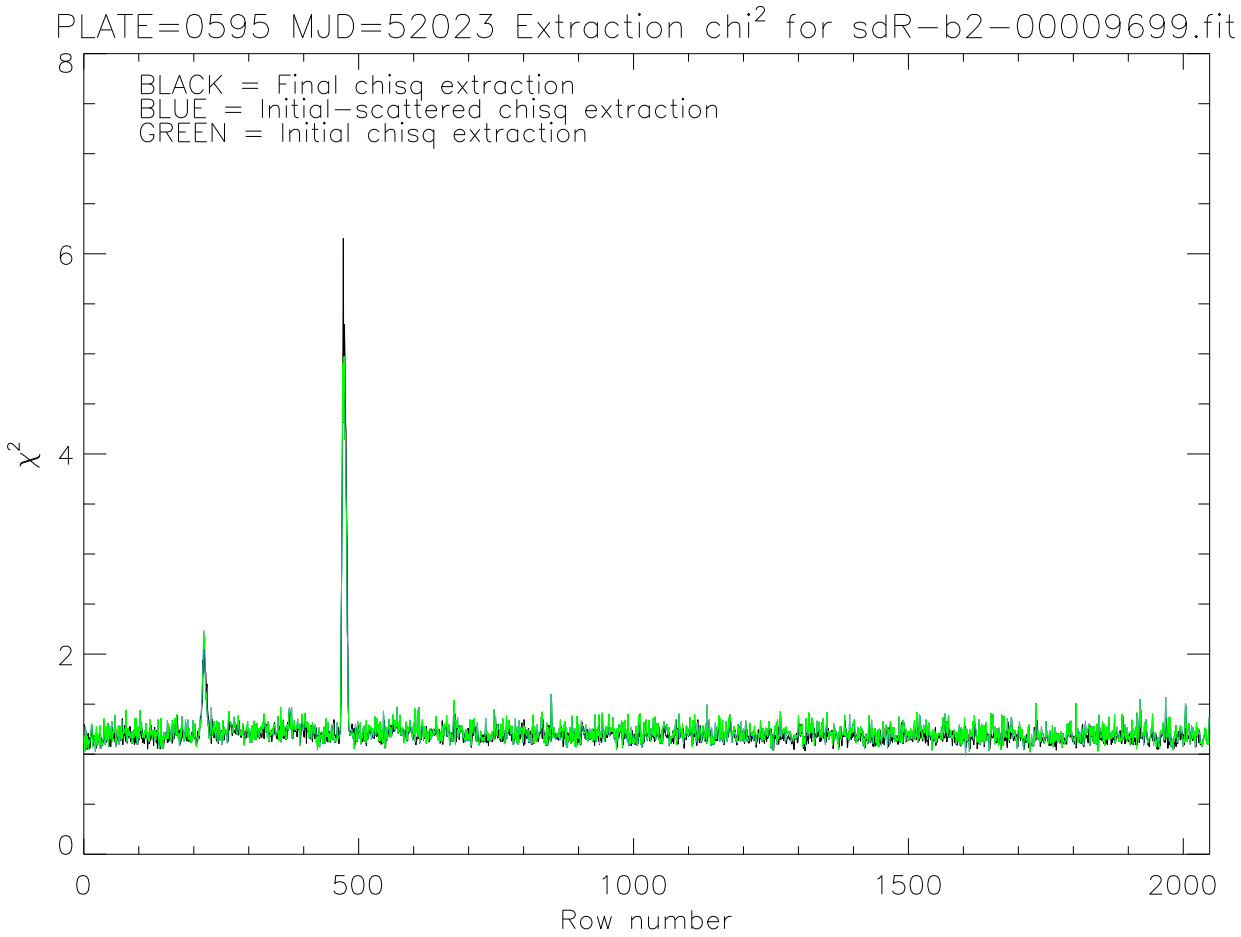

PLATE=0595 MJD=52023 Fiber-Flats for sdR-b2-00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.590
Max value = 1.311
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 12:07:56 2008

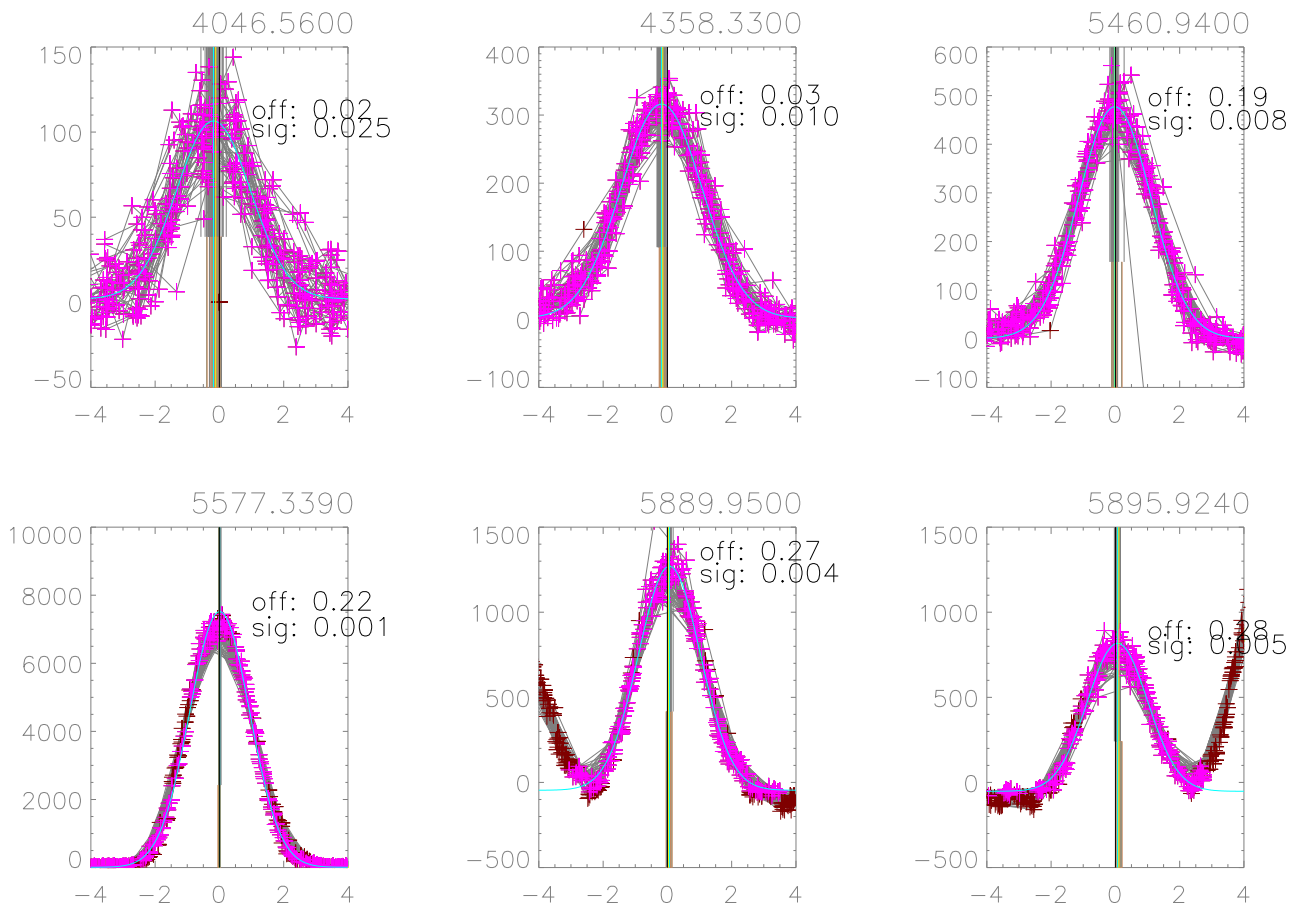

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-b2-00009699.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
12.5
16.2
14.4
10.7
12.5
12.5
12.5
14.4
14.4
12.5
12.5
14.4
0
0
0
0

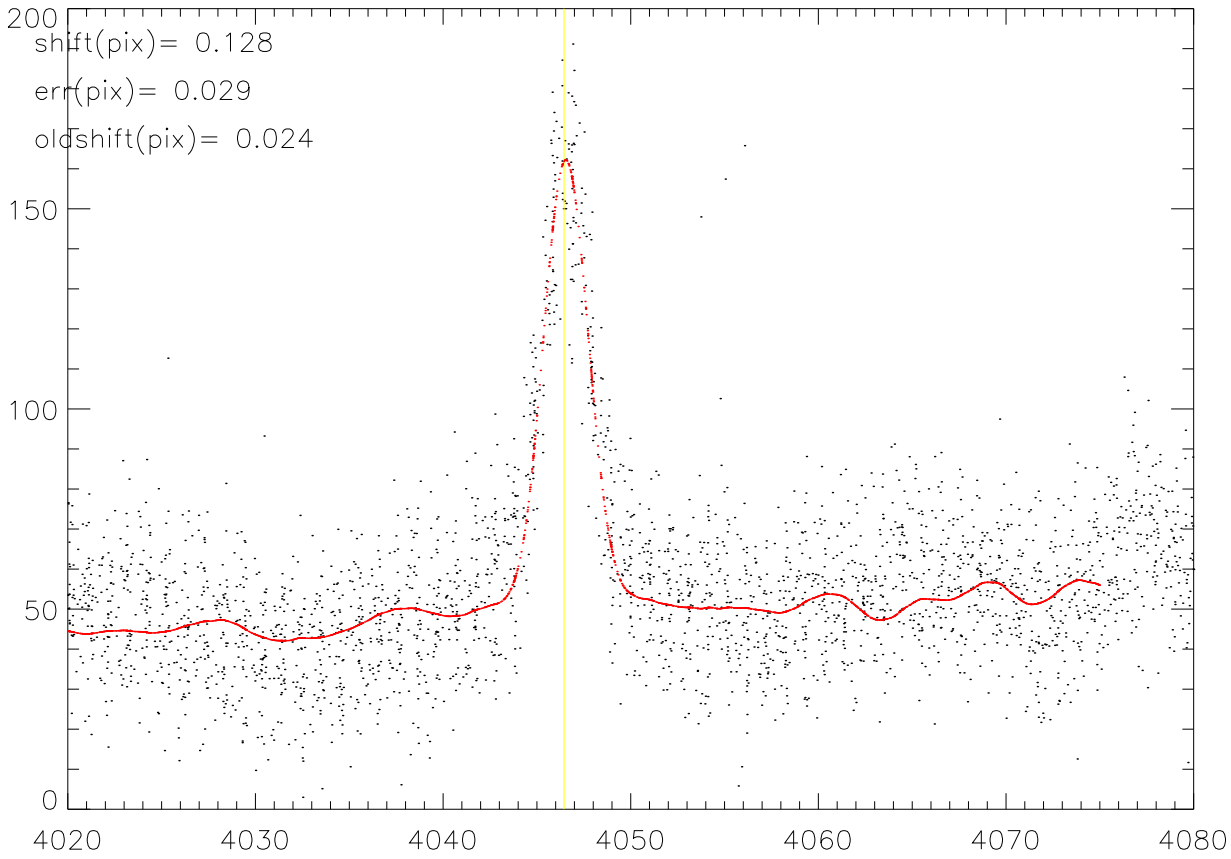

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-b2-00009699.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 12.205
Max value = 15.973
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 12:08:53 2008

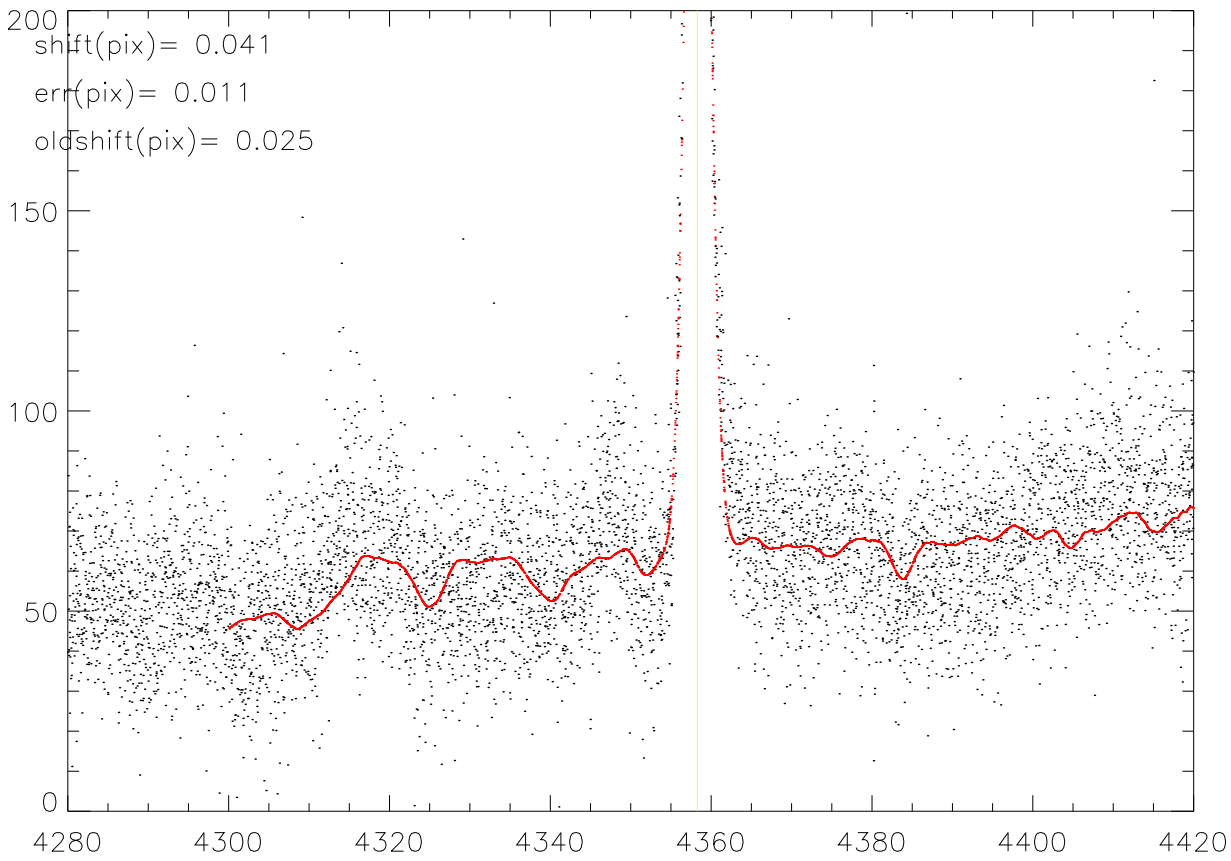

PLATE=0595 MJD=52023 Scattered Light on sdR-b2-00009699.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.5
12.4
8.7

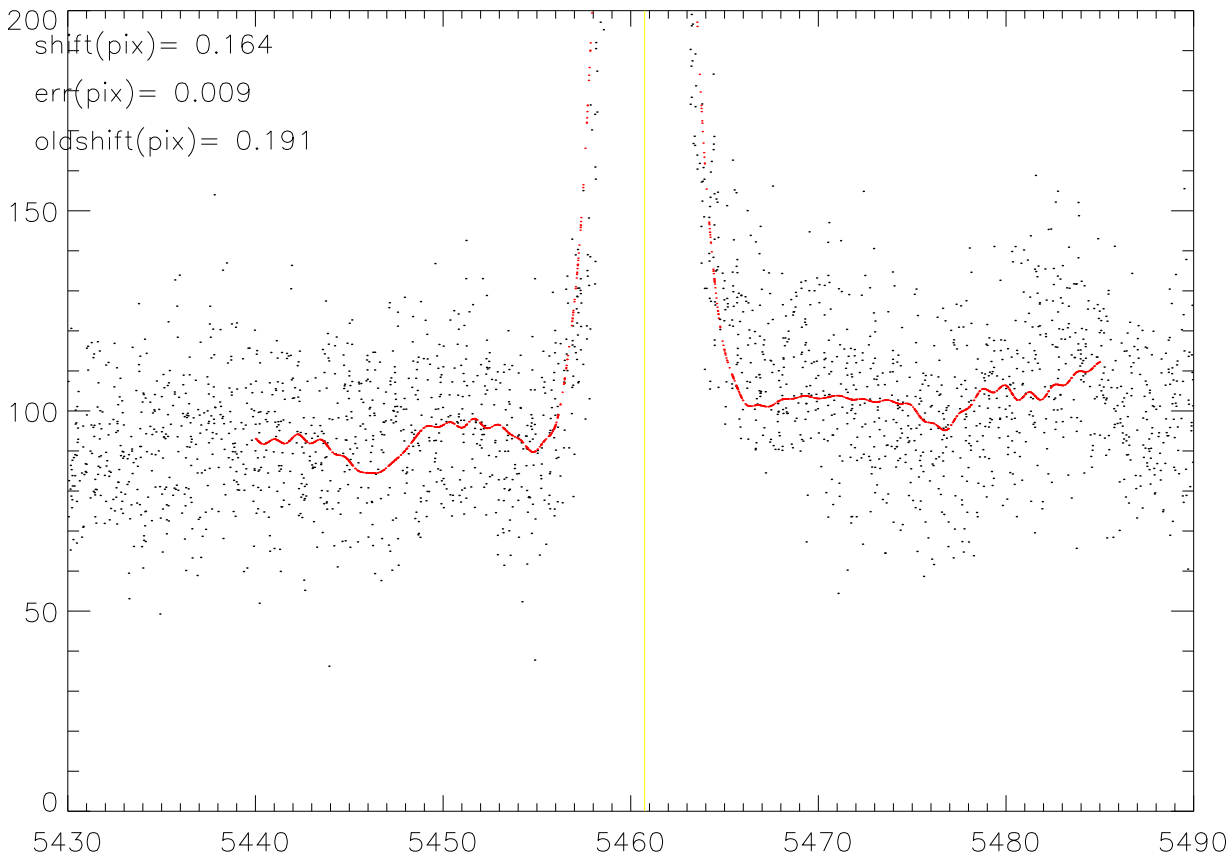

PLATE=0595 MJD=52023 Scattered Light on sdR-b2-00009699.fit
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 9.555
Max value = 12.459
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 12:12:14 2008

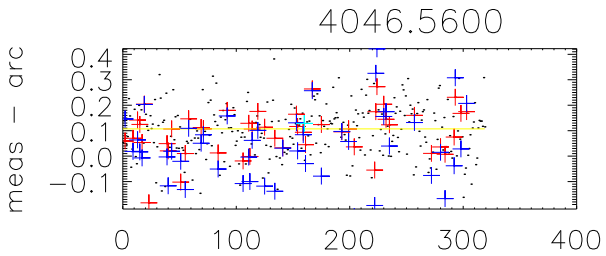

PLATE=0595 MJD=52023 Extraction chi^2 for sdR-b2-00009699.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

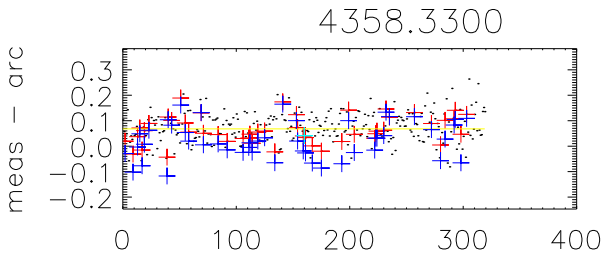

4046.5600
off: 0.02
sig: 0.025
4358.3300
off: 0.03
sig: 0.010
5460.9400
off: 0.19
sig: 0.008
5577.3390
off: 0.22
sig: 0.001
5889.9500
off: 0.27
sig: 0.004
5895.9240
off: 0.28
sig: 0.005

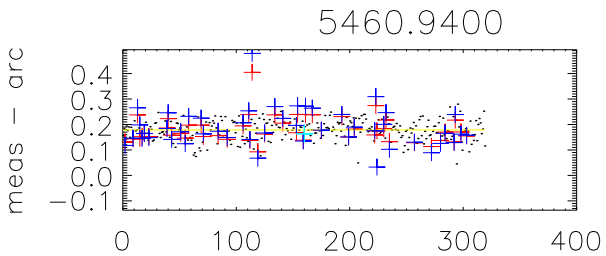

shift(pix)= 0.128
err(pix)= 0.029
oldshift(pix)= 0.024
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

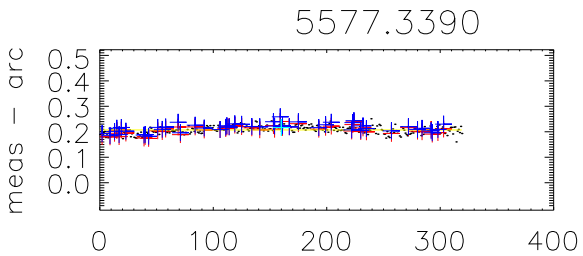

shift(pix)= 0.041
err(pix)= 0.011
oldshift(pix)= 0.025
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

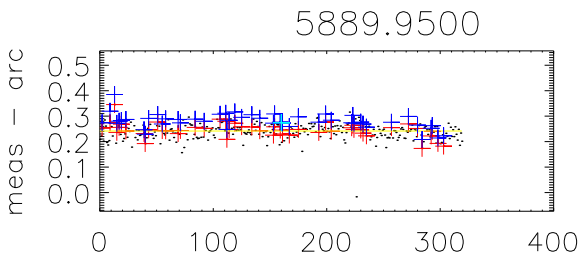

shift(pix)= 0.164
err(pix)= 0.009
oldshift(pix)= 0.191
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

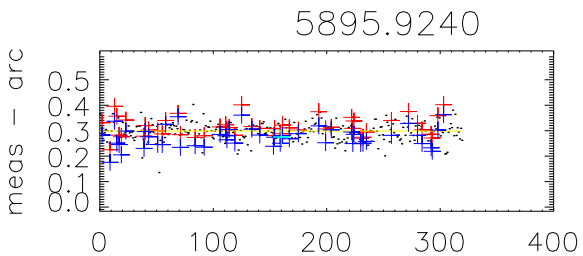

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

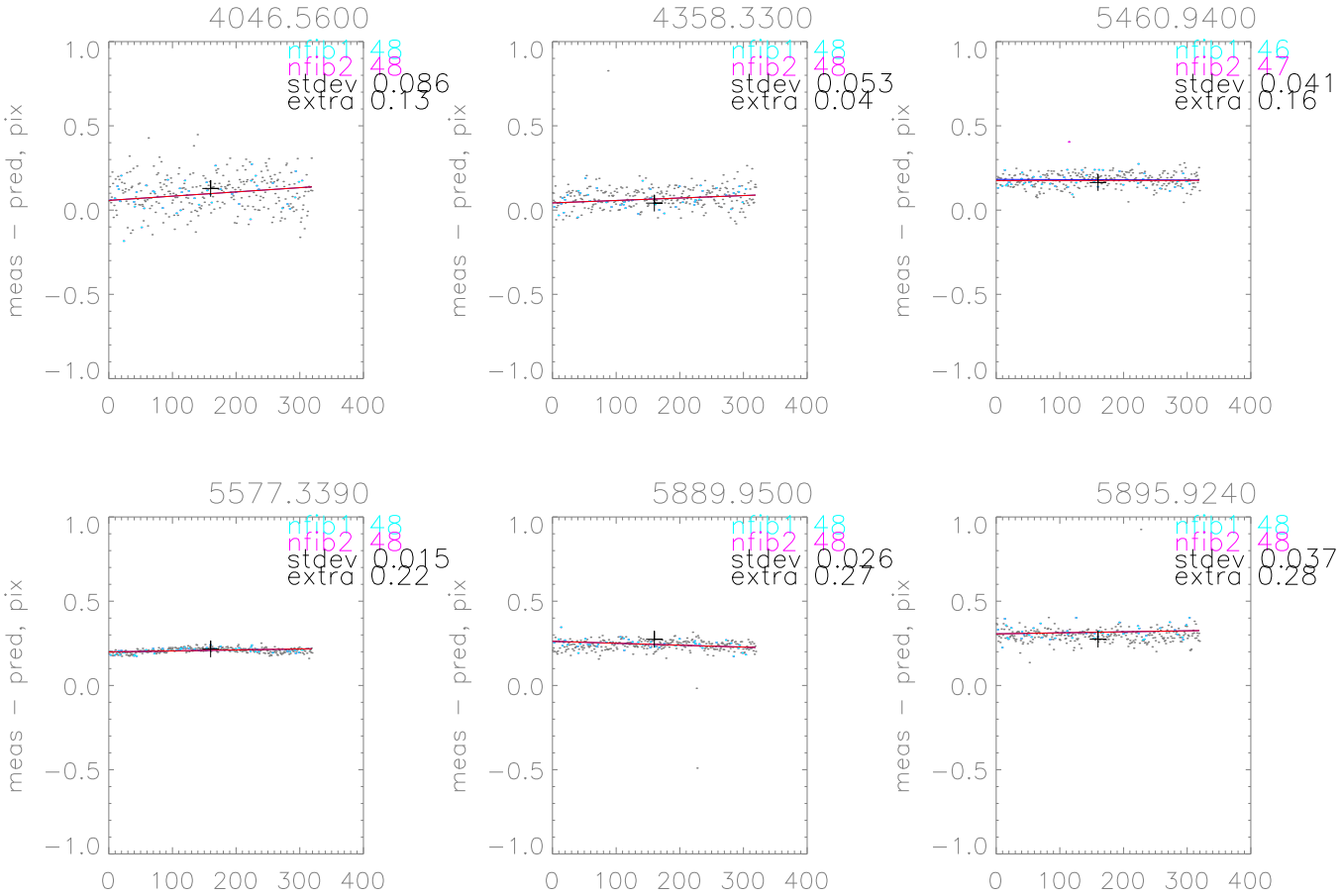

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

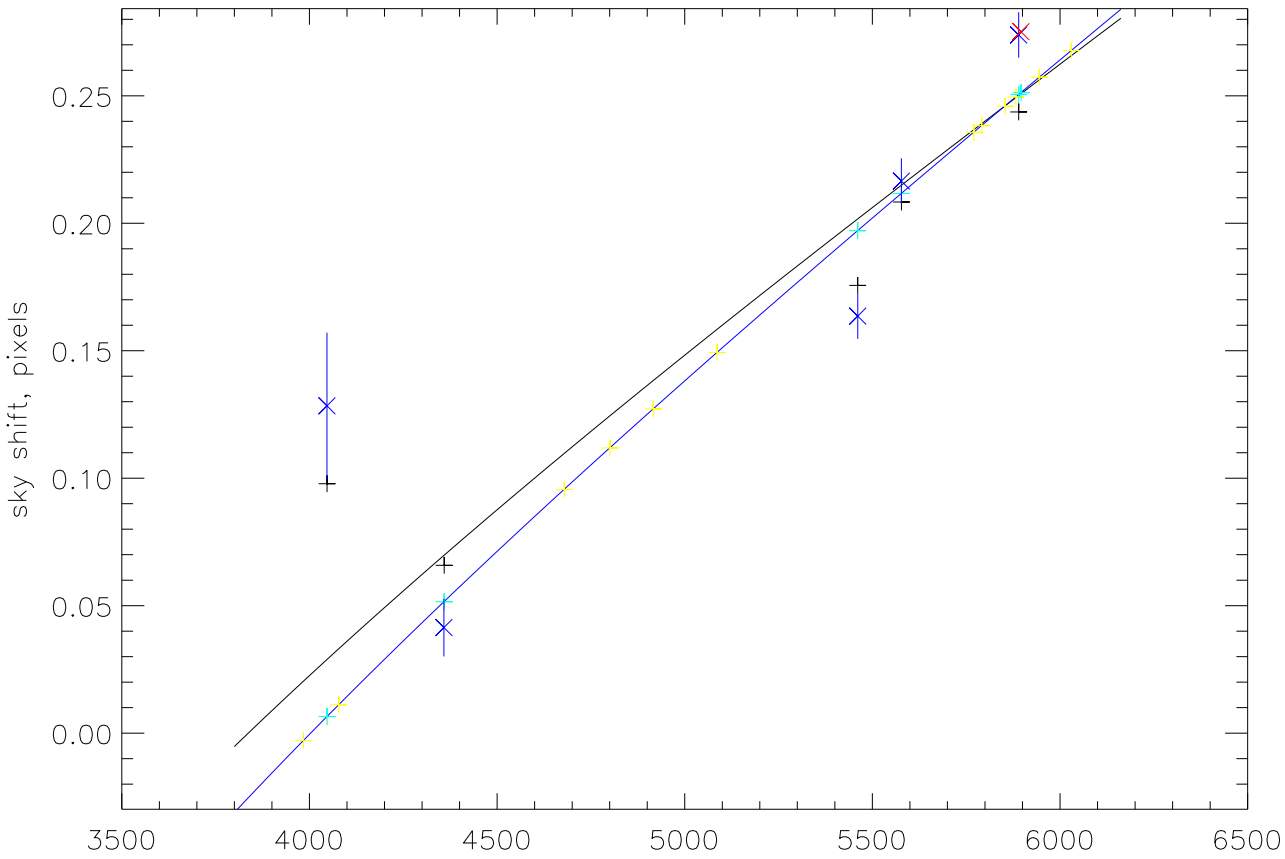

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

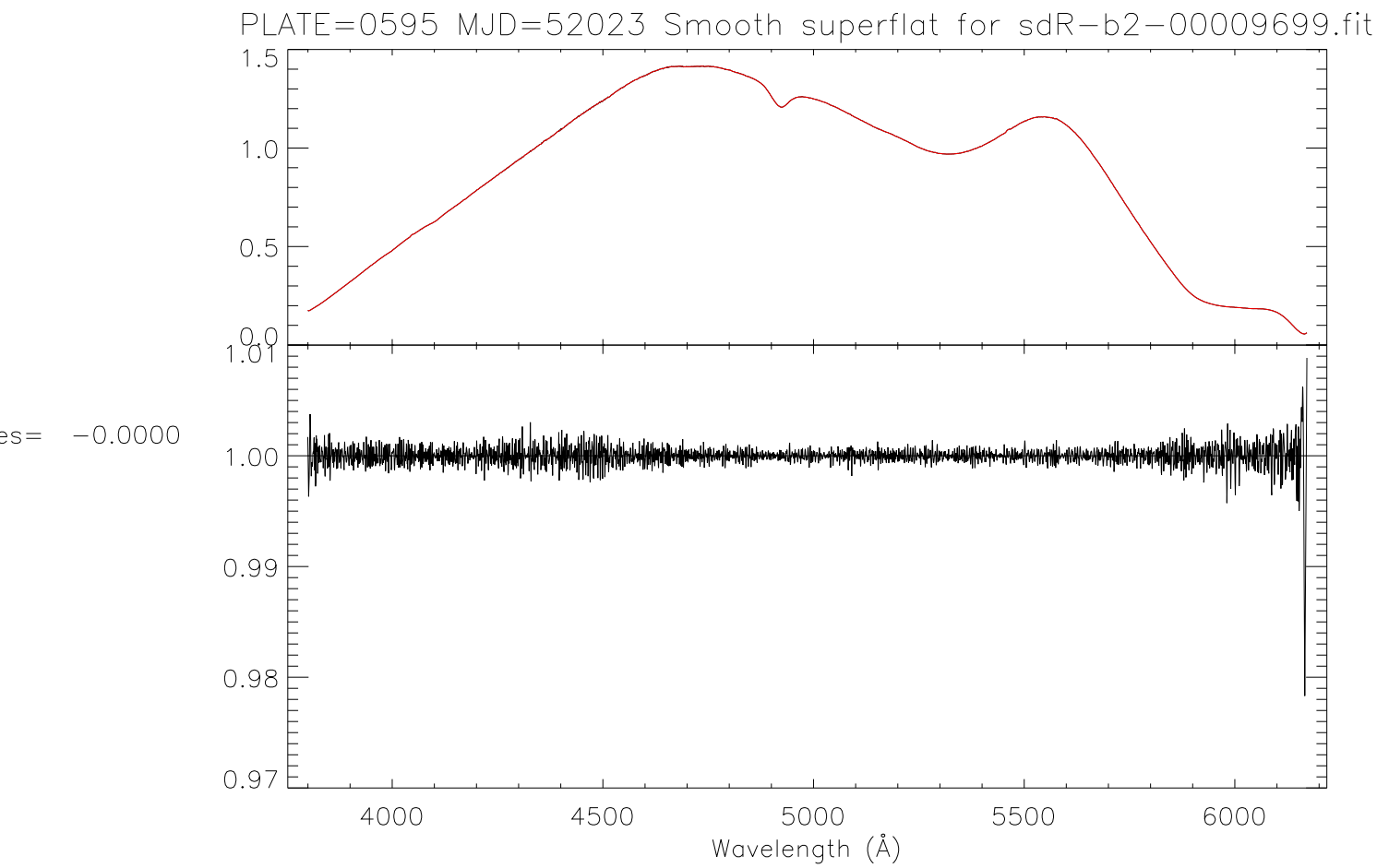

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

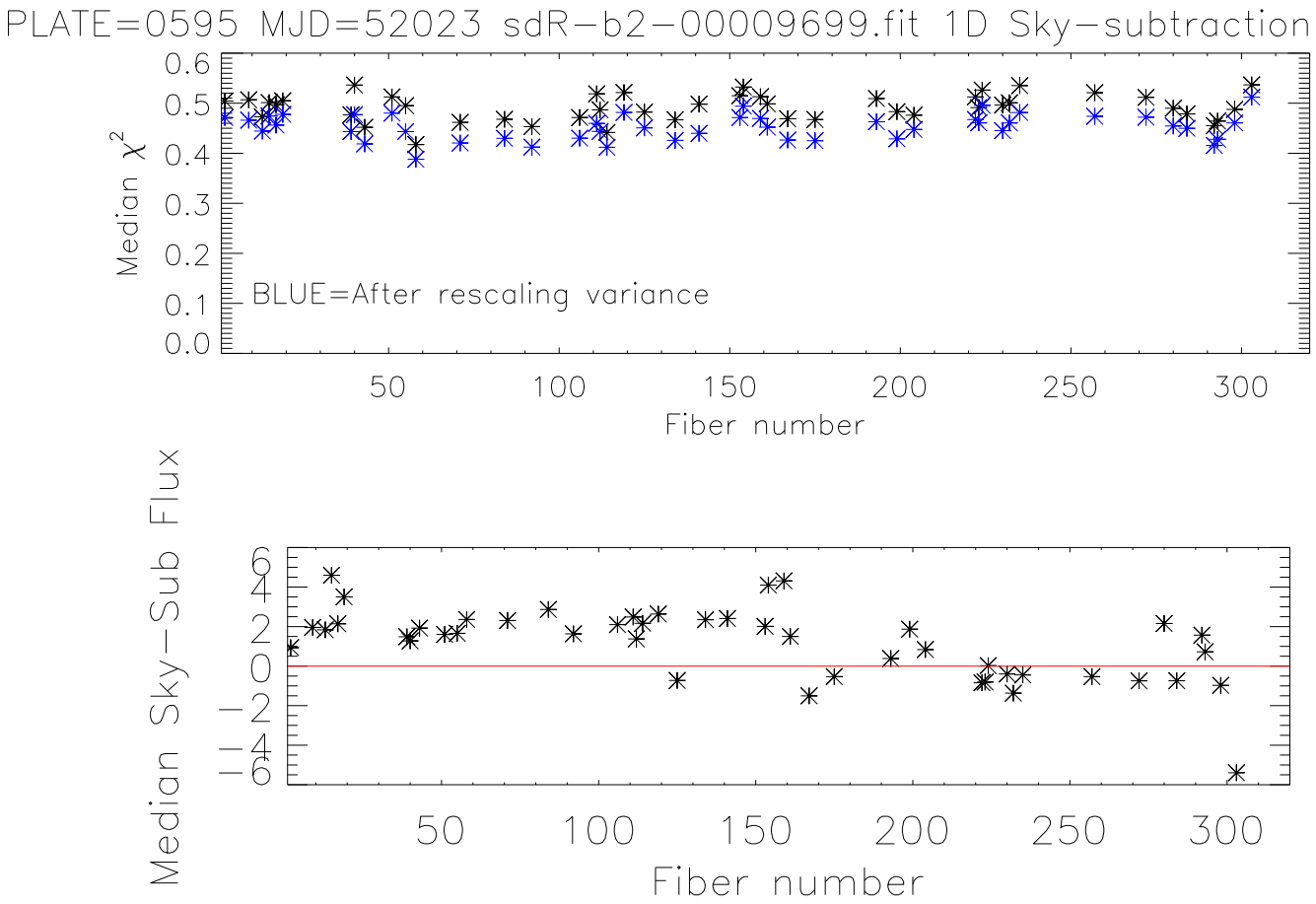

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

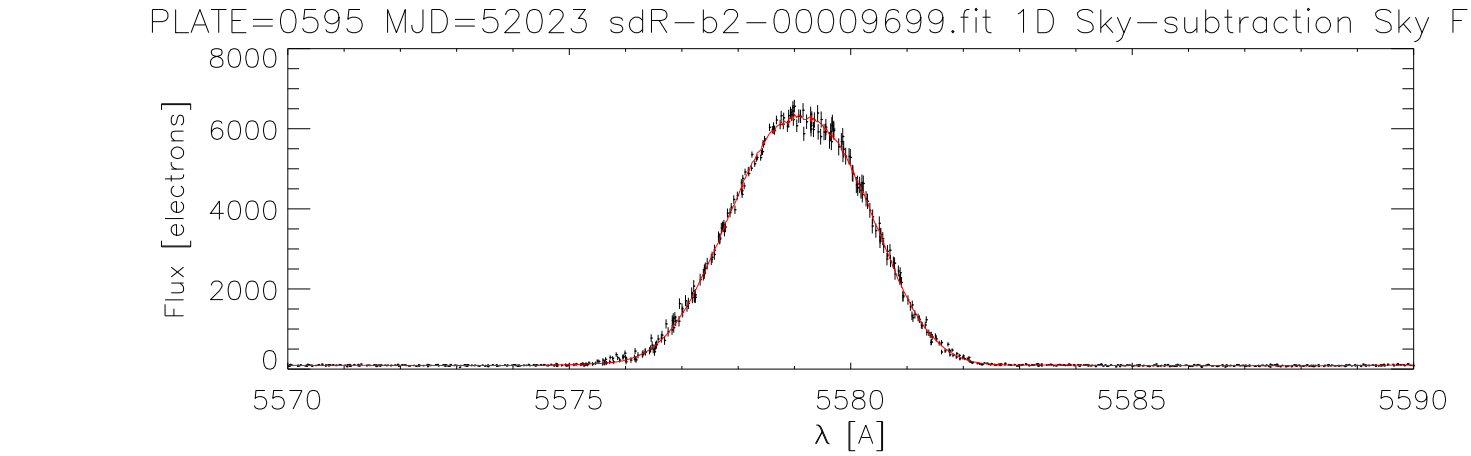

4046.5600
nfib1 48
nfib2 48
stdev 0.086
extra 0.13
4358.3300
nfib1 48
nfib2 48
stdev 0.053
extra 0.04
5460.9400
nfib1 46
nfib2 47
stdev 0.041
extra 0.16
5577.3390
nfib1 48
nfib2 48
stdev 0.015
extra 0.22
5889.9500
nfib1 48
nfib2 48
stdev 0.026
extra 0.27
5895.9240
nfib1 48
nfib2 48
stdev 0.037
extra 0.28
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

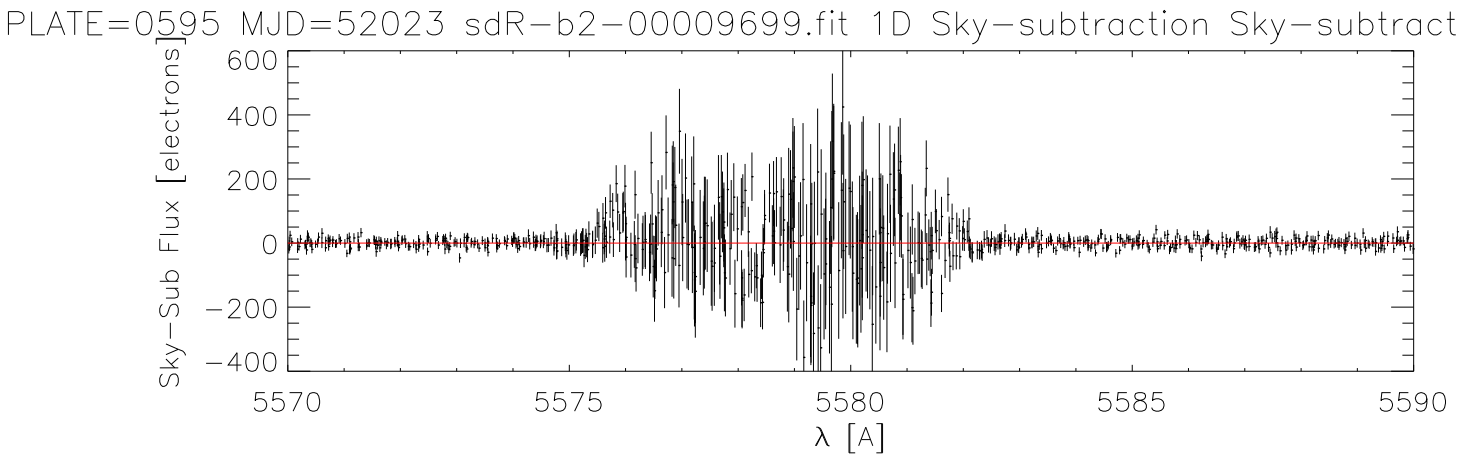

sky shift, pixels
0.25
0.20
0.15
0.10
0.05
0.00
3500
4000
4500
5000
5500
6000
6500

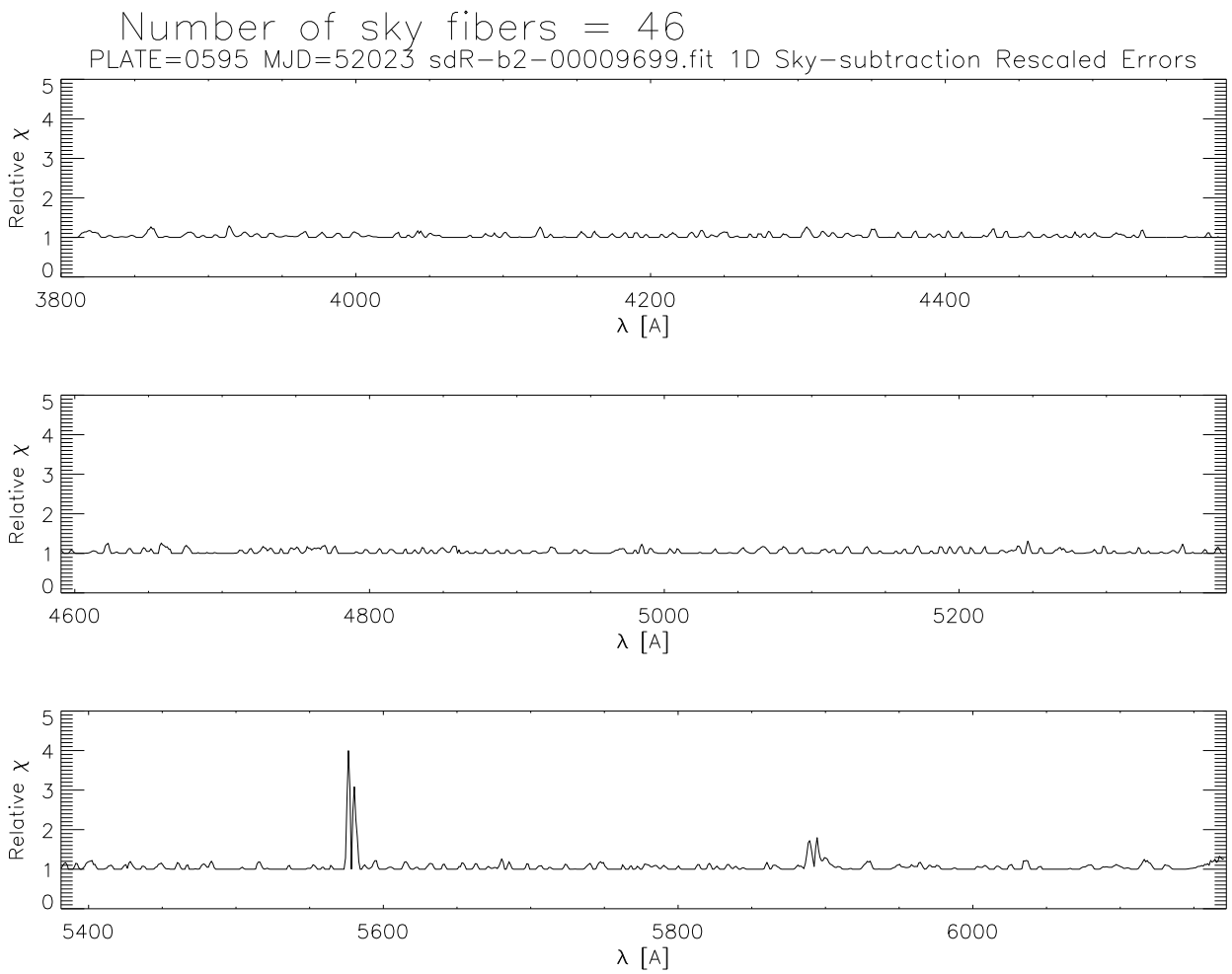

PLATE=0595 MJD=52023 Smooth superflat for sdR-b2-00009699.fit
1.5
1.0
0.5
0.0
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

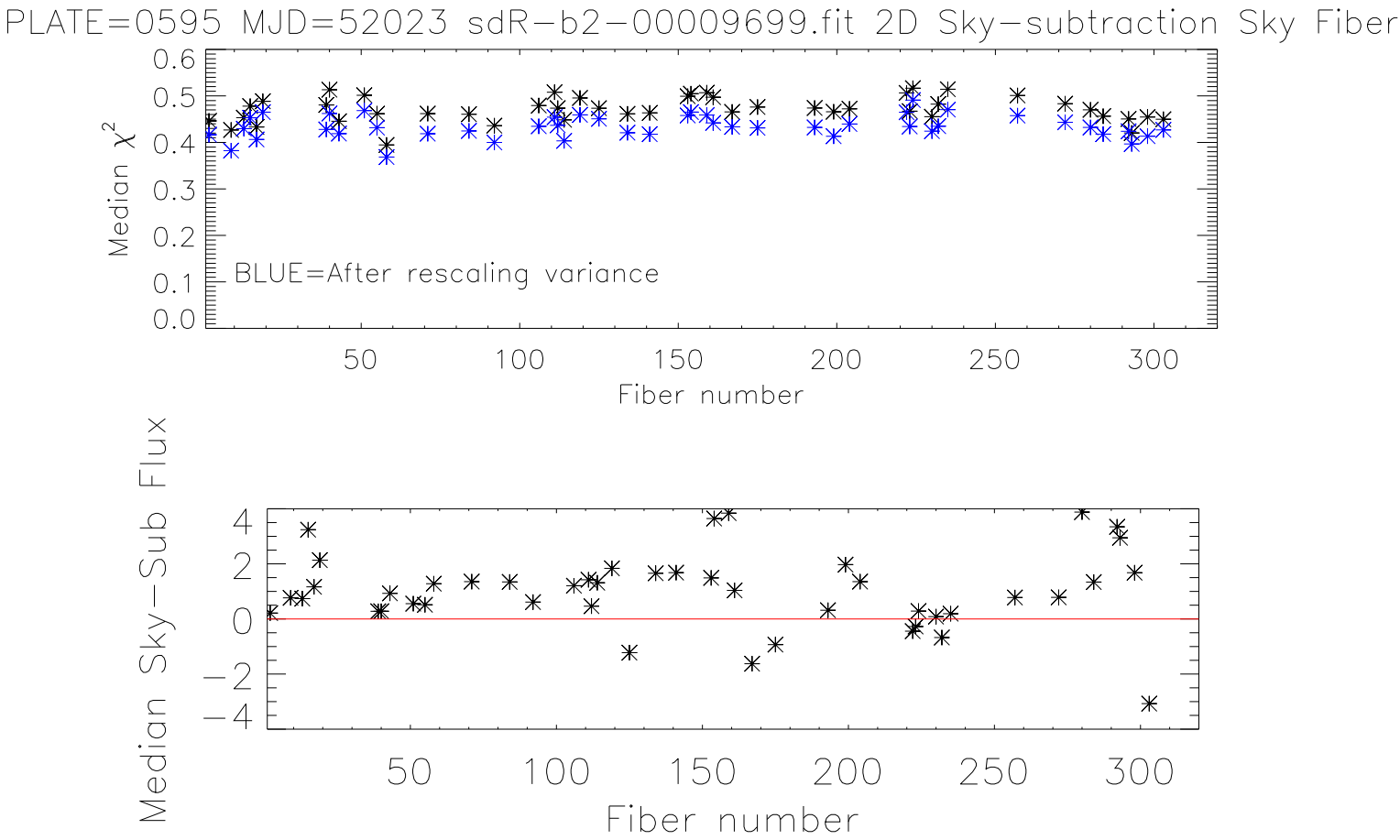
es= −0.0000

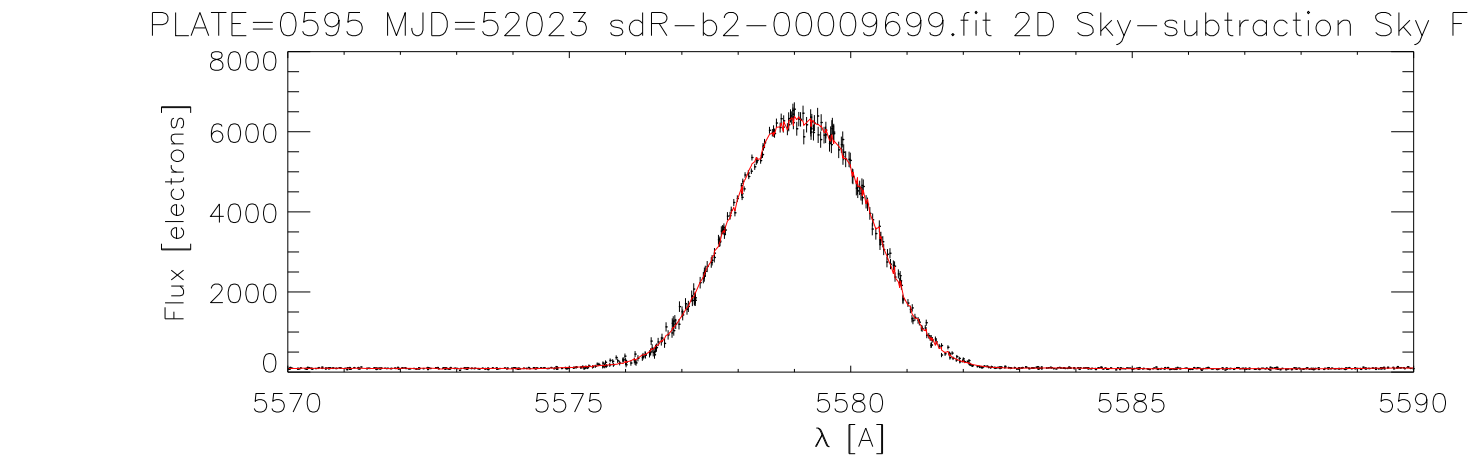

PLATE=0595 MJD=52023 sdR-b2-00009699.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

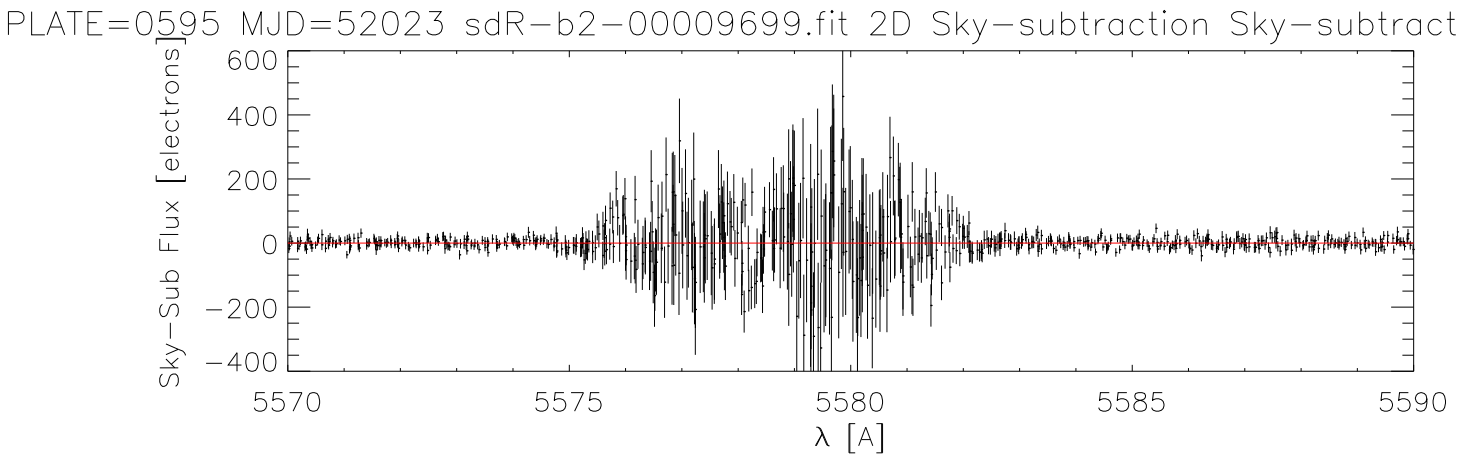

PLATE=0595 MJD=52023 sdR-b2-00009699.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

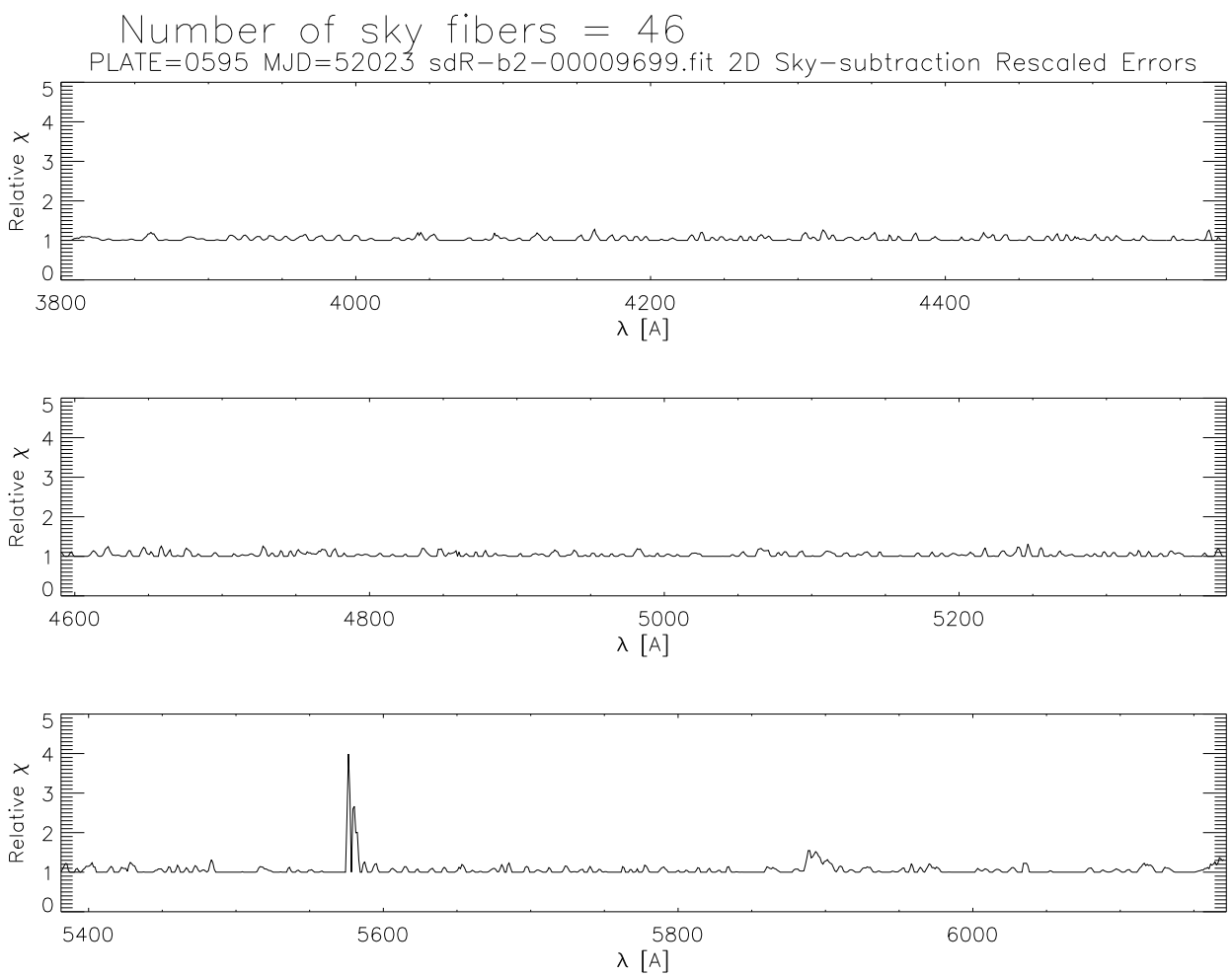

PLATE=0595 MJD=52023 sdR-b2-00009699.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

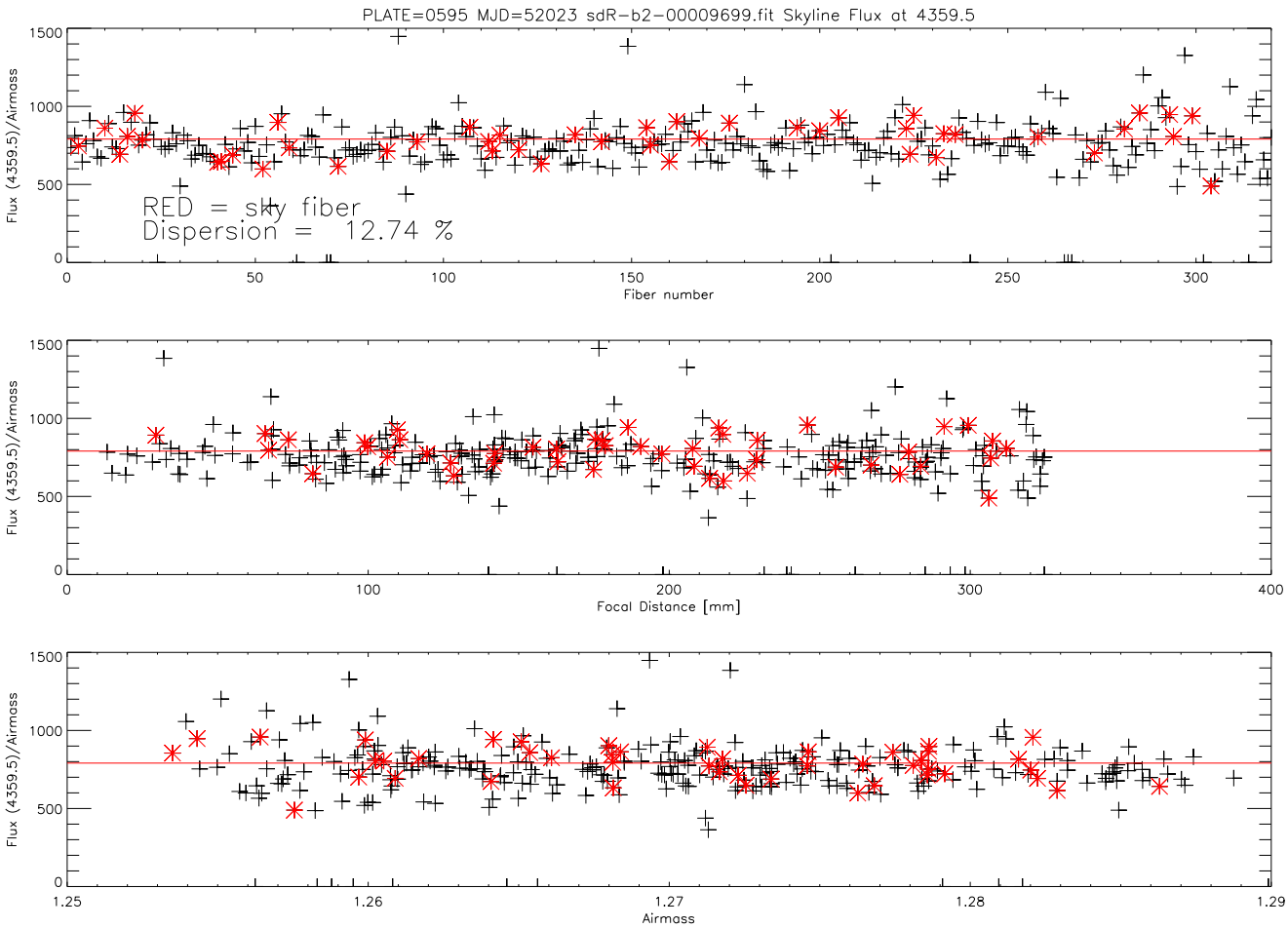

Number of sky fibers = 46
PLATE=0595 MJD=52023 sdR-b2-00009699.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

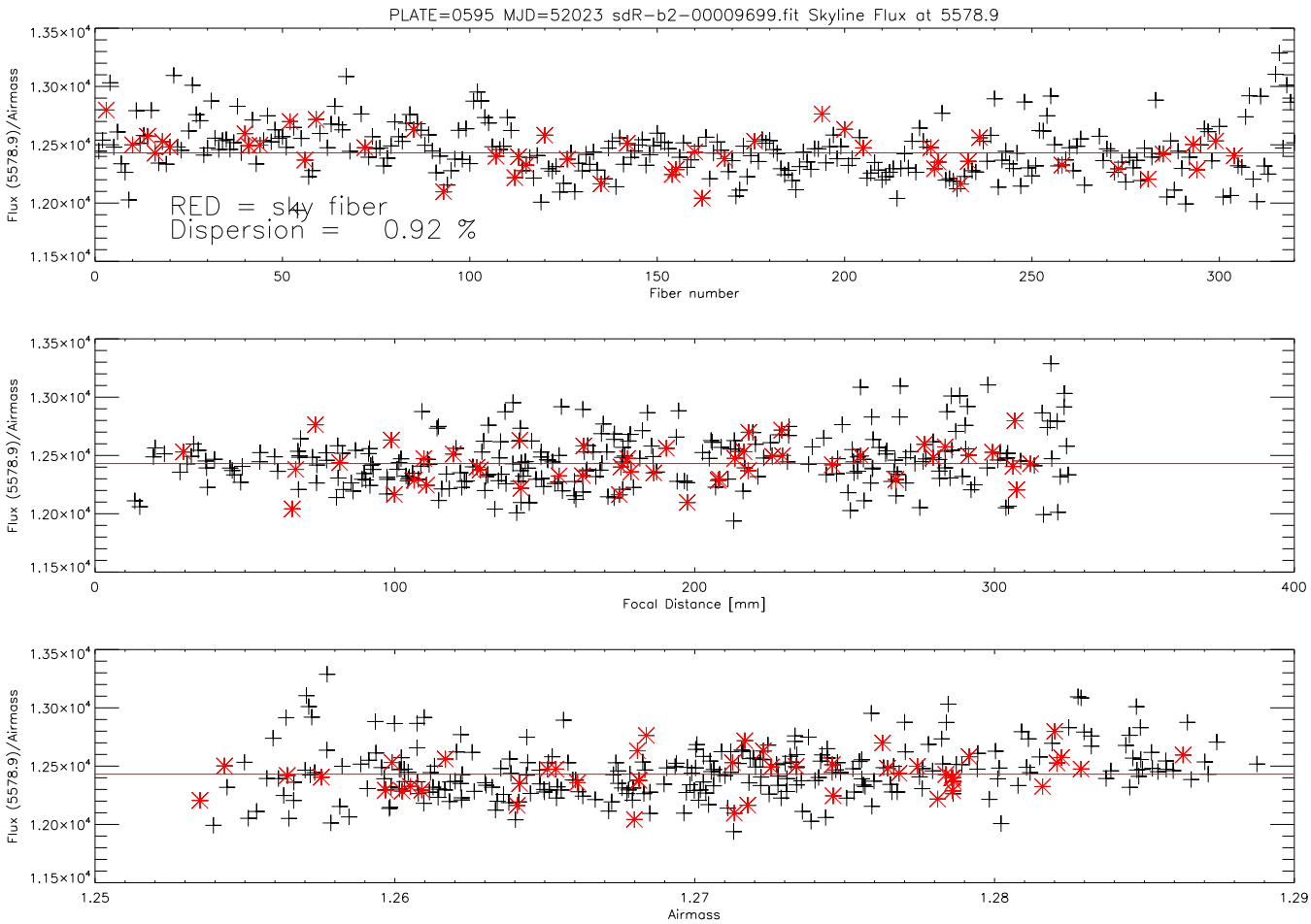

PLATE=0595 MJD=52023 sdR-b2-00009699.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

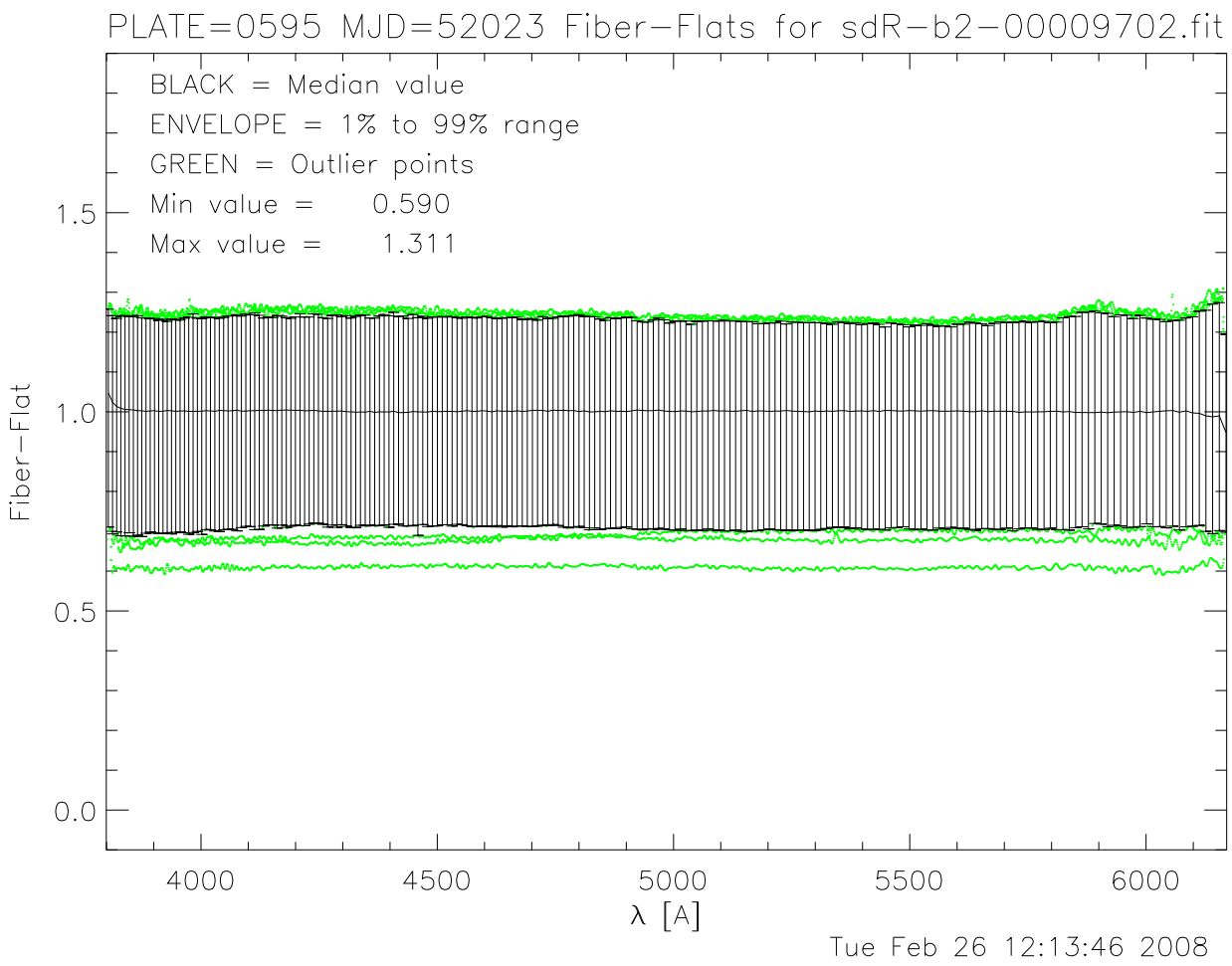

PLATE=0595 MJD=52023 sdR-b2-00009699.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

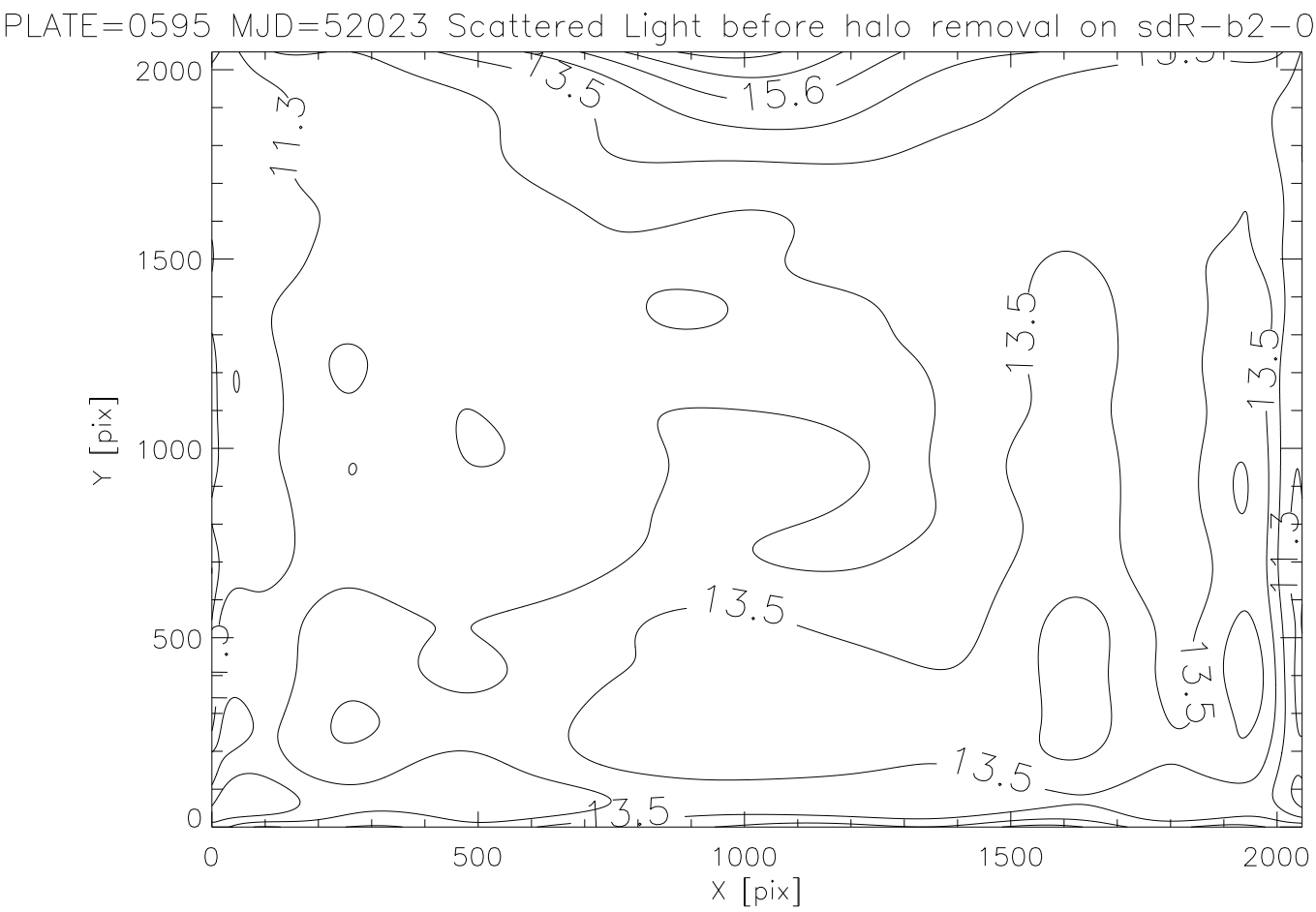

PLATE=0595 MJD=52023 sdR-b2-00009699.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

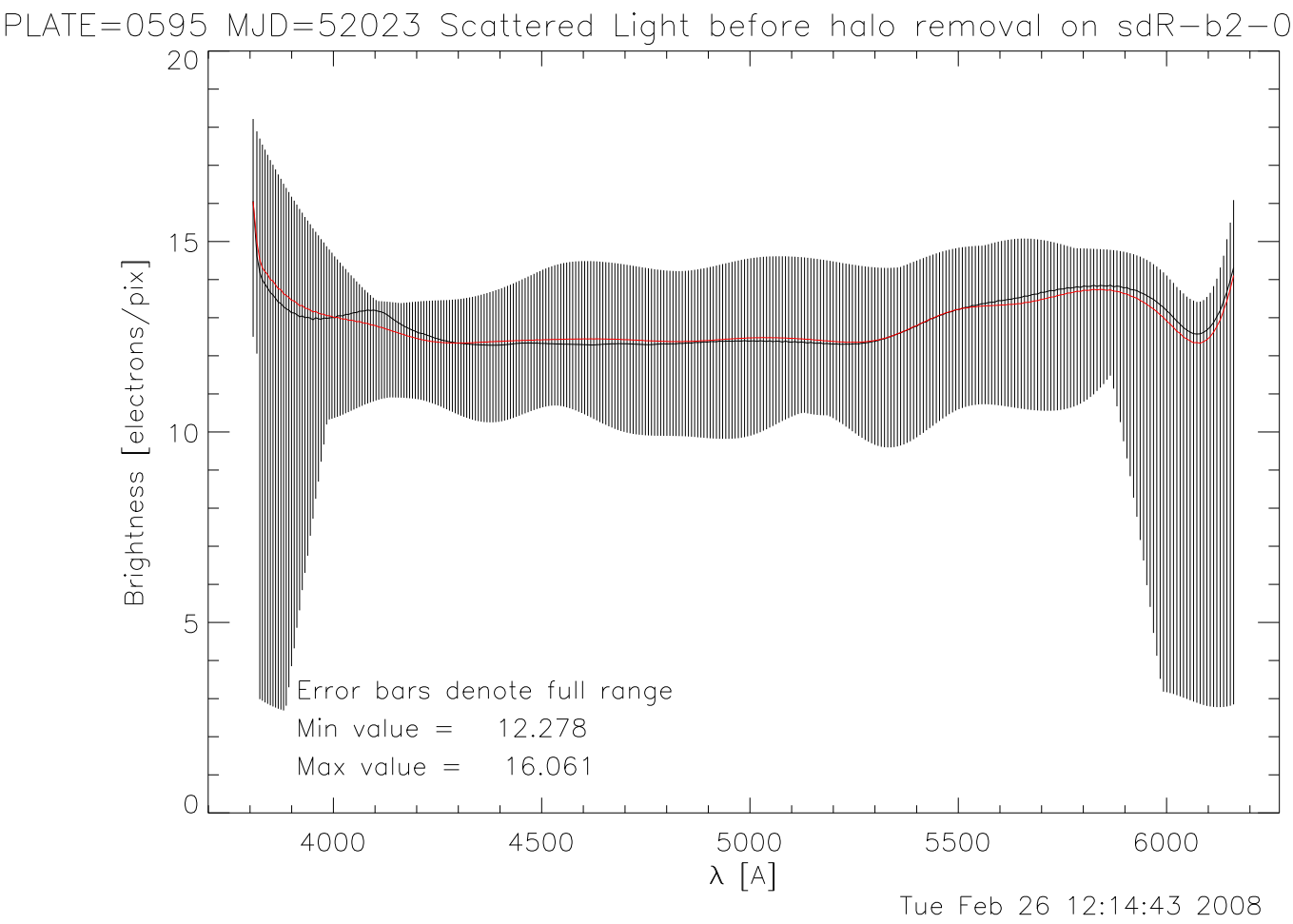

Number of sky fibers = 46
PLATE=0595 MJD=52023 sdR-b2-00009699.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

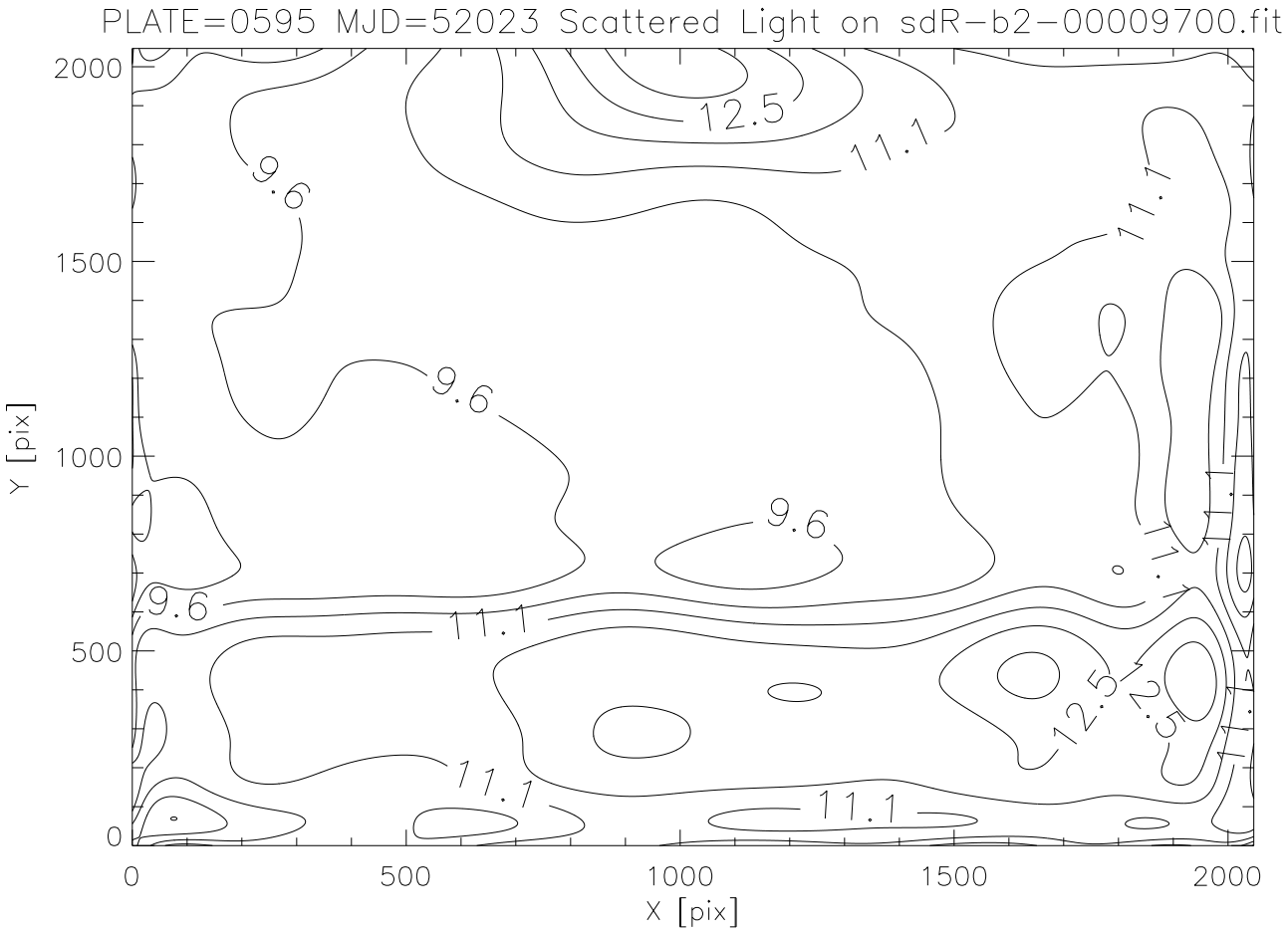

PLATE=0595 MJD=52023 sdR-b2-00009699.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.74 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

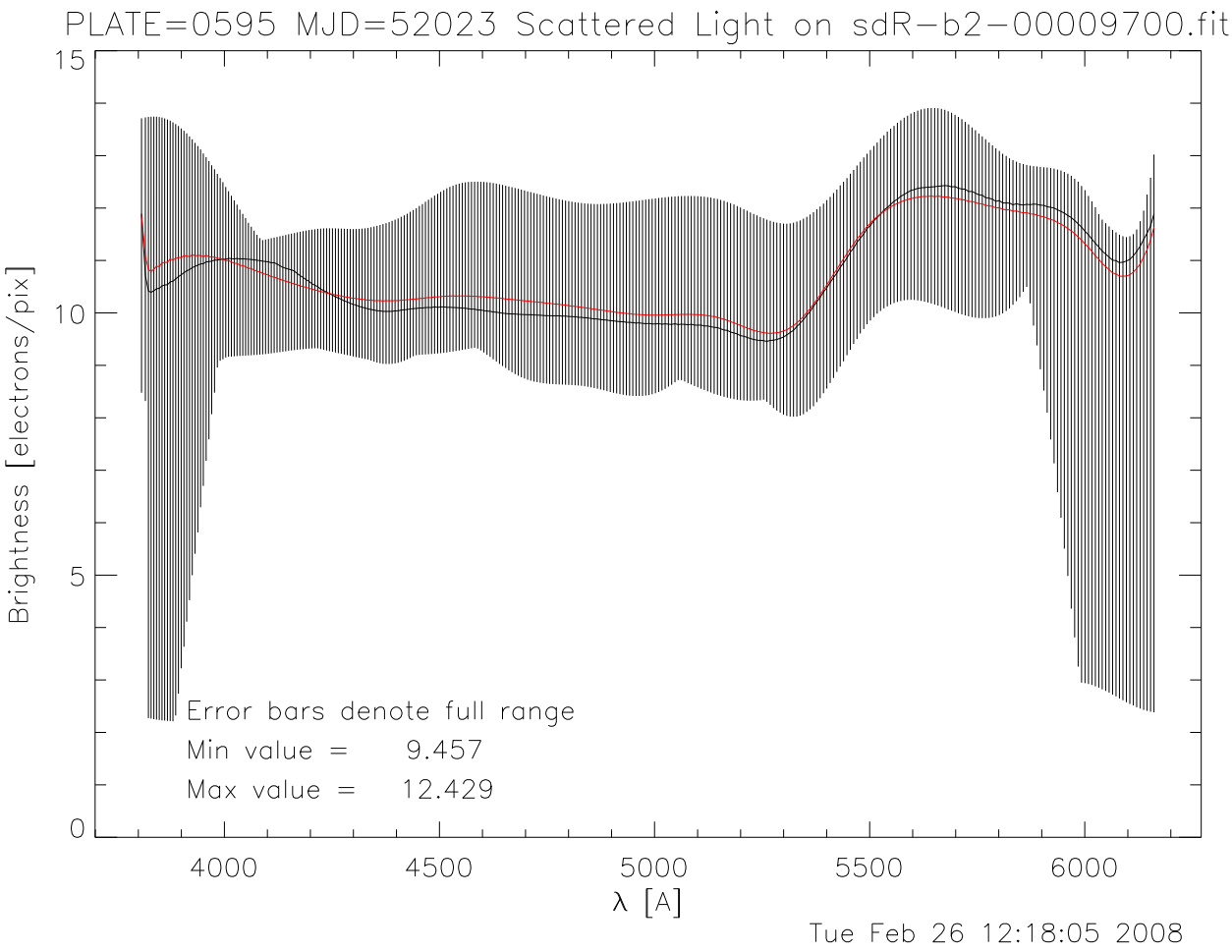

PLATE=0595 MJD=52023 sdR-b2-00009699.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.35×10⁴
1.30×10⁴
1.25×10⁴
1.20×10⁴
1.15×10⁴
RED = sky fiber
Dispersion = 0.92 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1.35×10⁴
1.30×10⁴
1.25×10⁴
1.20×10⁴
1.15×10⁴
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.35×10⁴
1.30×10⁴
1.25×10⁴
1.20×10⁴
1.15×10⁴
1.25
1.26
1.27
1.28
1.29
Airmass

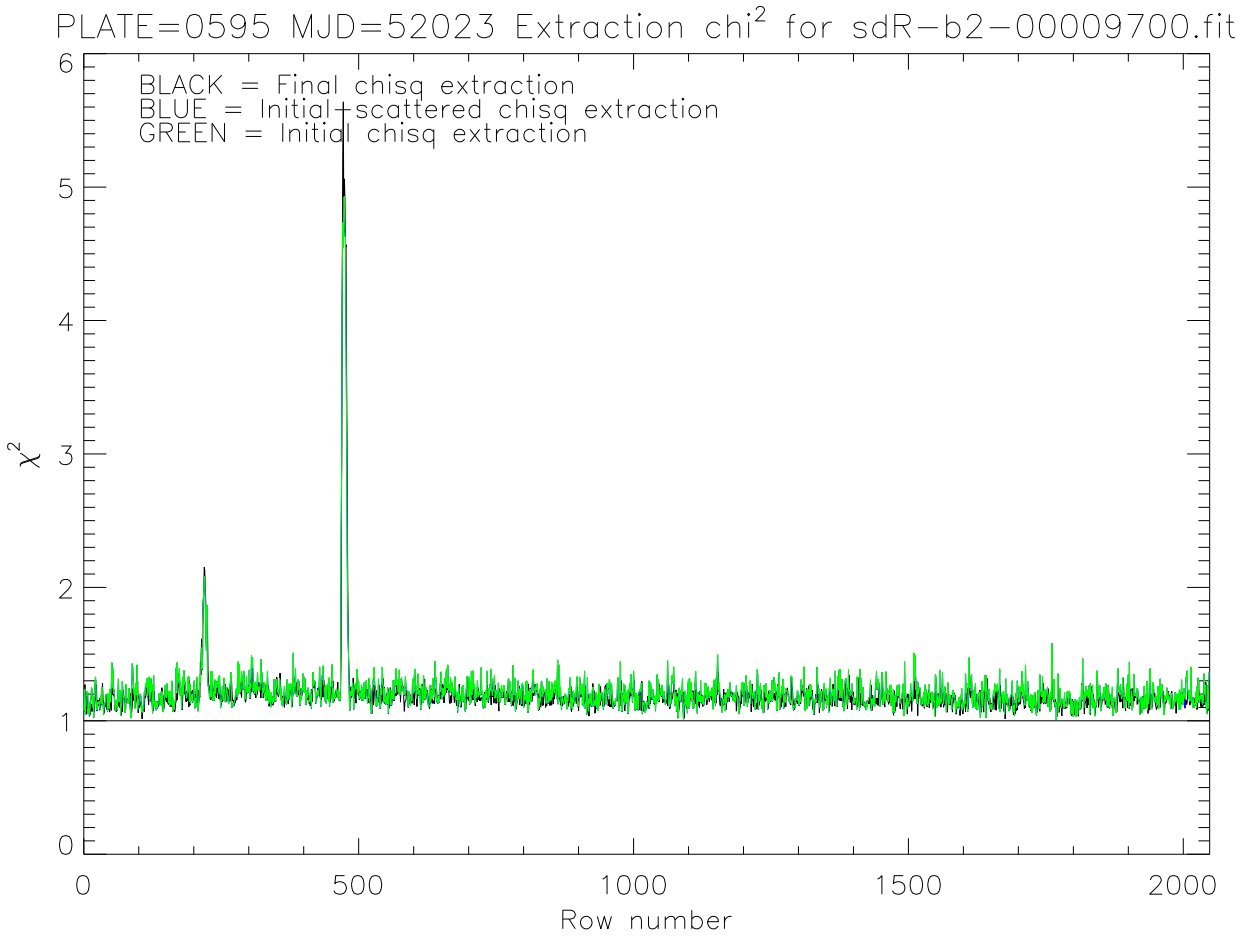

PLATE=0595 MJD=52023 Fiber-Flats for sdR-b2-00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.590
Max value = 1.311
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 12:13:46 2008

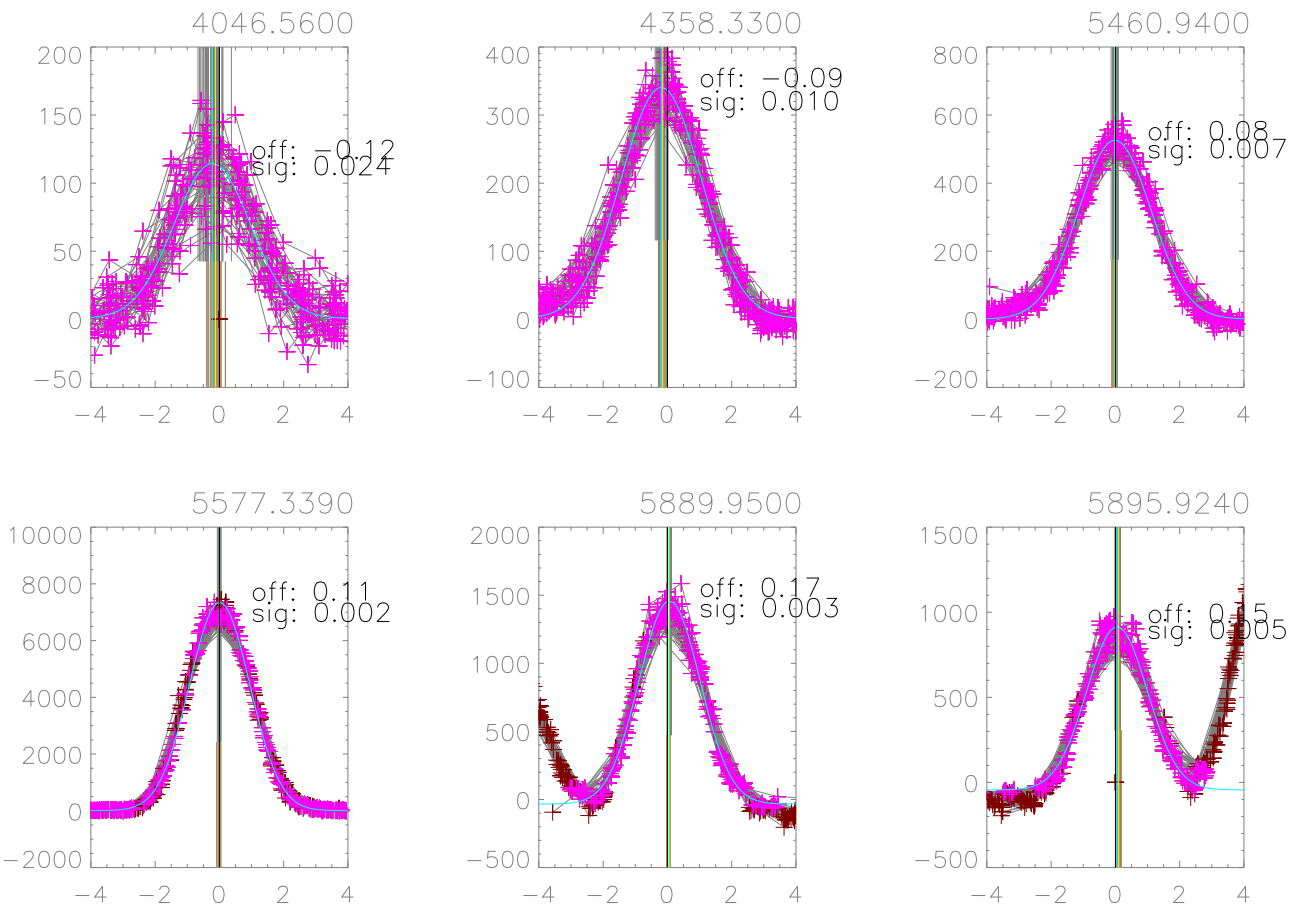

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR−b2−00009700.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
13.5
15.6
11.3
13.5
13.5
13.5
11.3
13.5
13.5
13.5

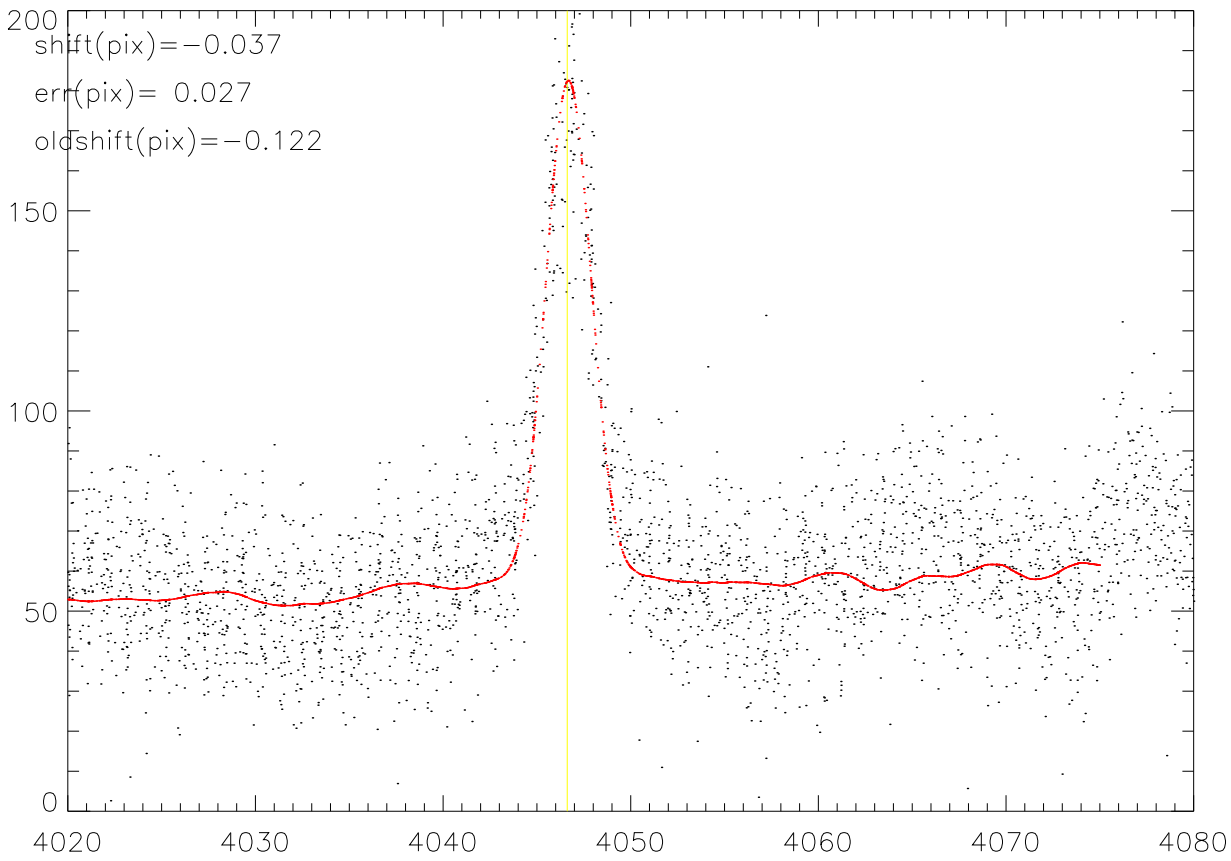

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-b2-00009700.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 12.278
Max value = 16.061
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 12:14:43 2008

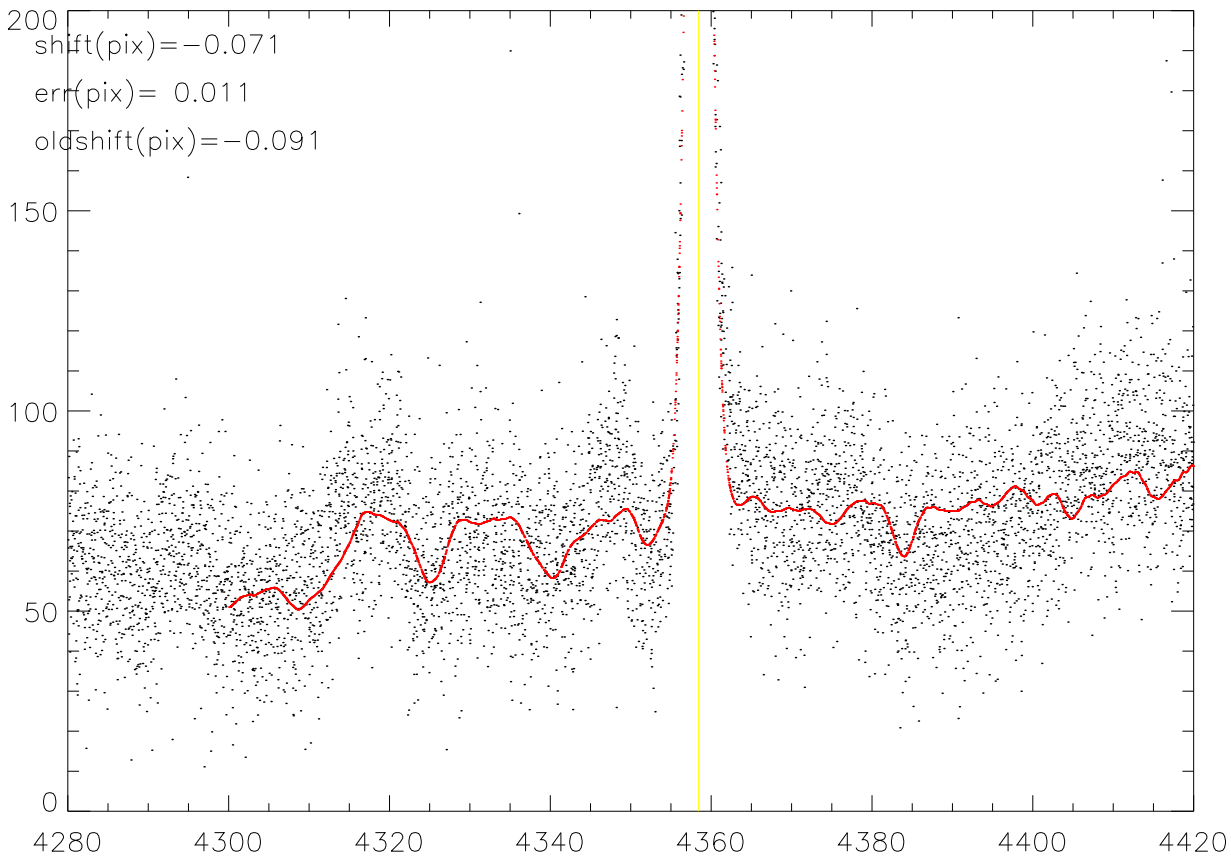

PLATE=0595 MJD=52023 Scattered Light on sdR-b2-00009700.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.6
11.1
12.5

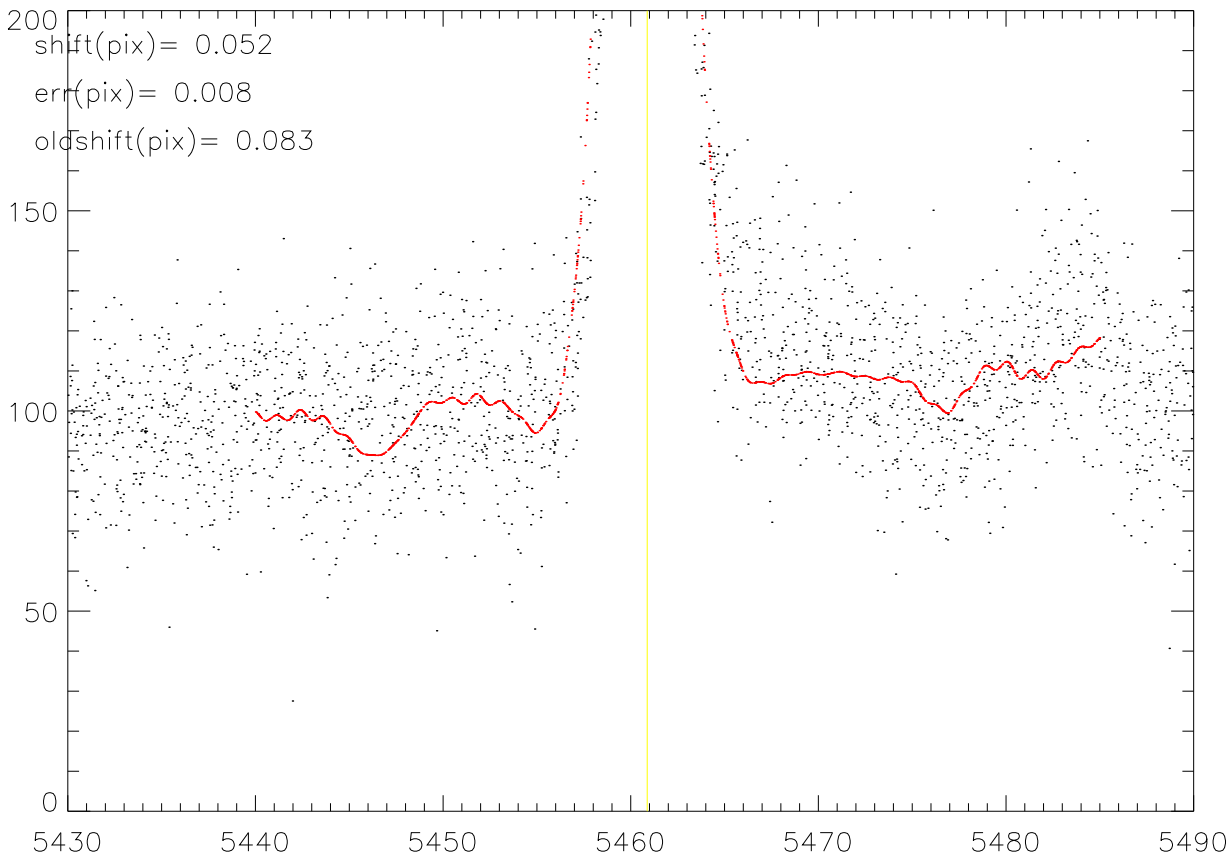

PLATE=0595 MJD=52023 Scattered Light on sdR-b2-00009700.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 9.457
Max value = 12.429
Tue Feb 26 12:18:05 2008

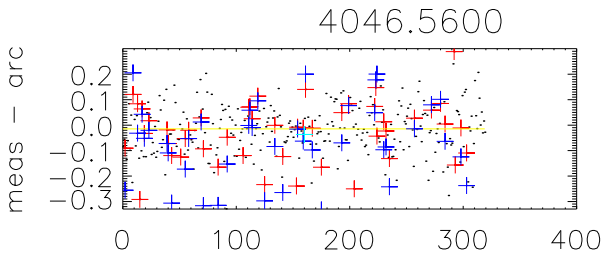

PLATE=0595 MJD=52023 Extraction chi^2 for sdR-b2-00009700.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

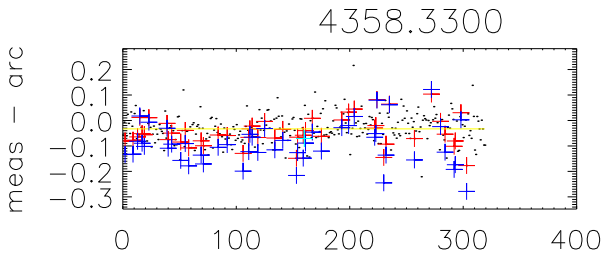

4046.5600
off: −0.12
sig: 0.024
4358.3300
off: −0.09
sig: 0.010
5460.9400
off: 0.08
sig: 0.007
5577.3390
off: 0.11
sig: 0.002
5889.9500
off: 0.17
sig: 0.003
5895.9240
off: 0.15
sig: 0.005

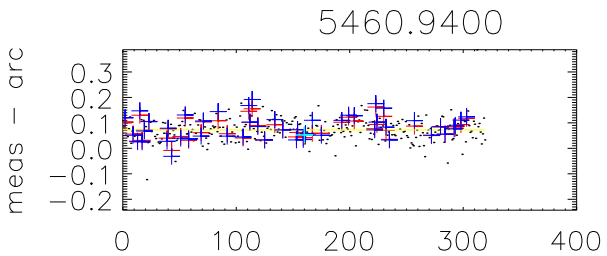

shift(pix)=−0.037
err(pix)= 0.027
oldshift(pix)=−0.122
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

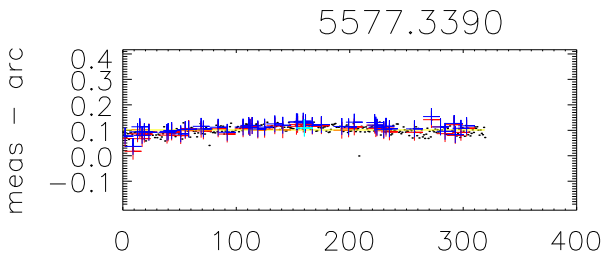

shift(pix)=−0.071
err(pix)= 0.011
oldshift(pix)=−0.091
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

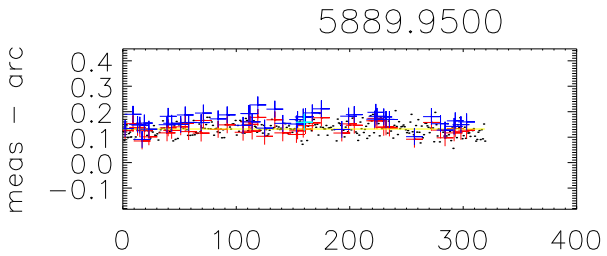

shift(pix)= 0.052
err(pix)= 0.008
oldshift(pix)= 0.083
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

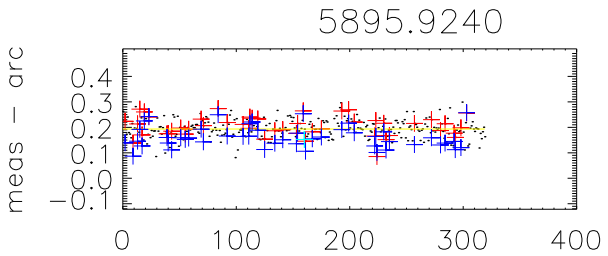

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

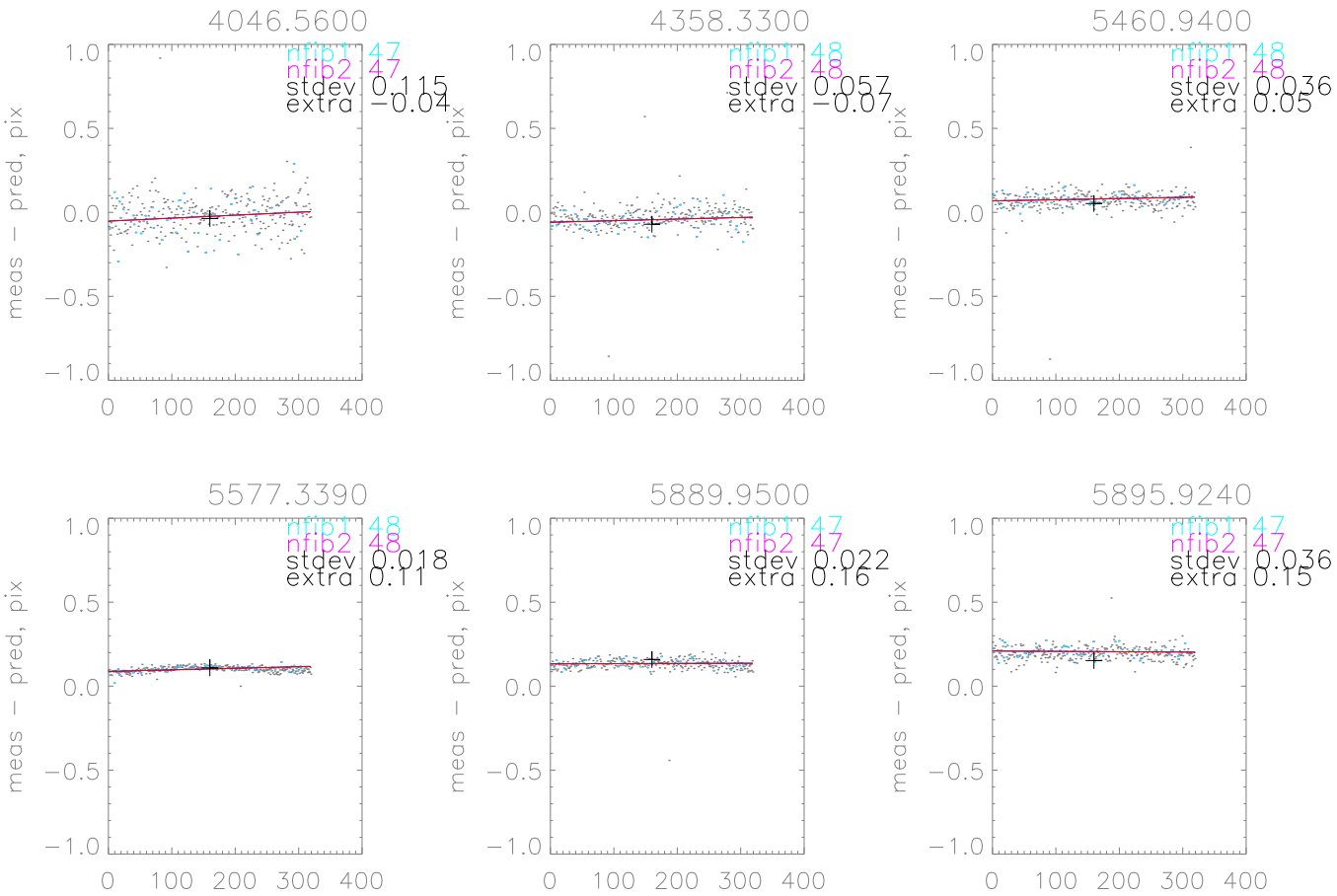

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

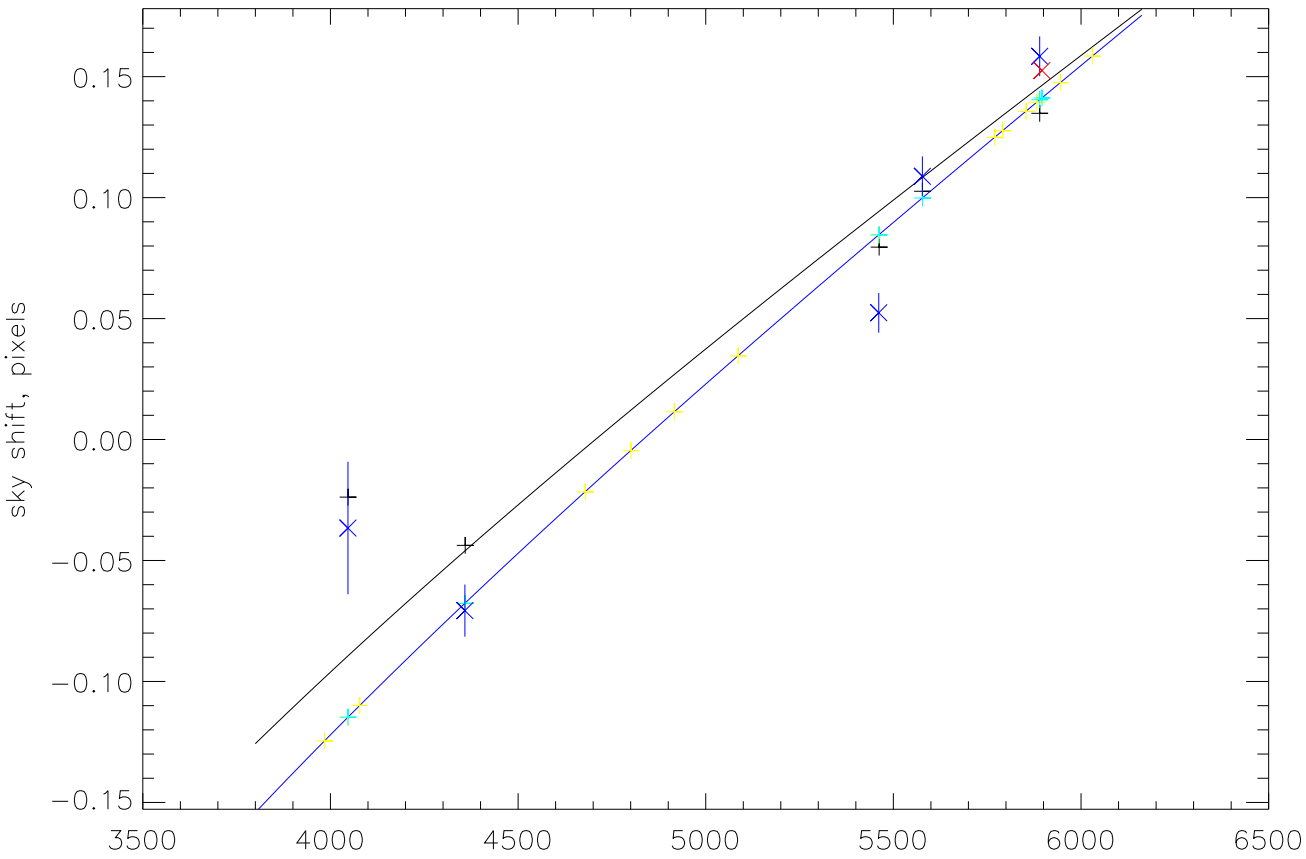

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

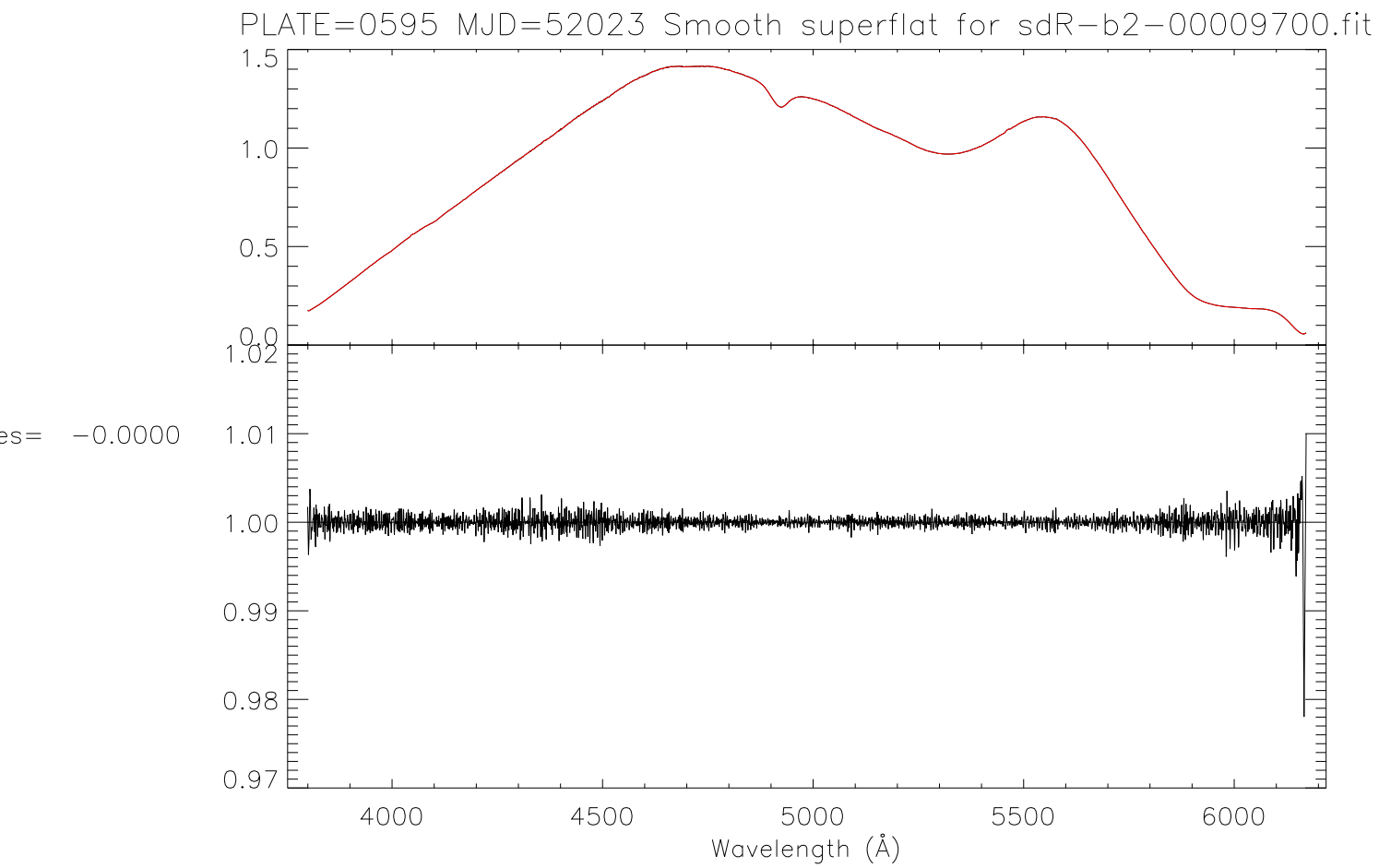

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

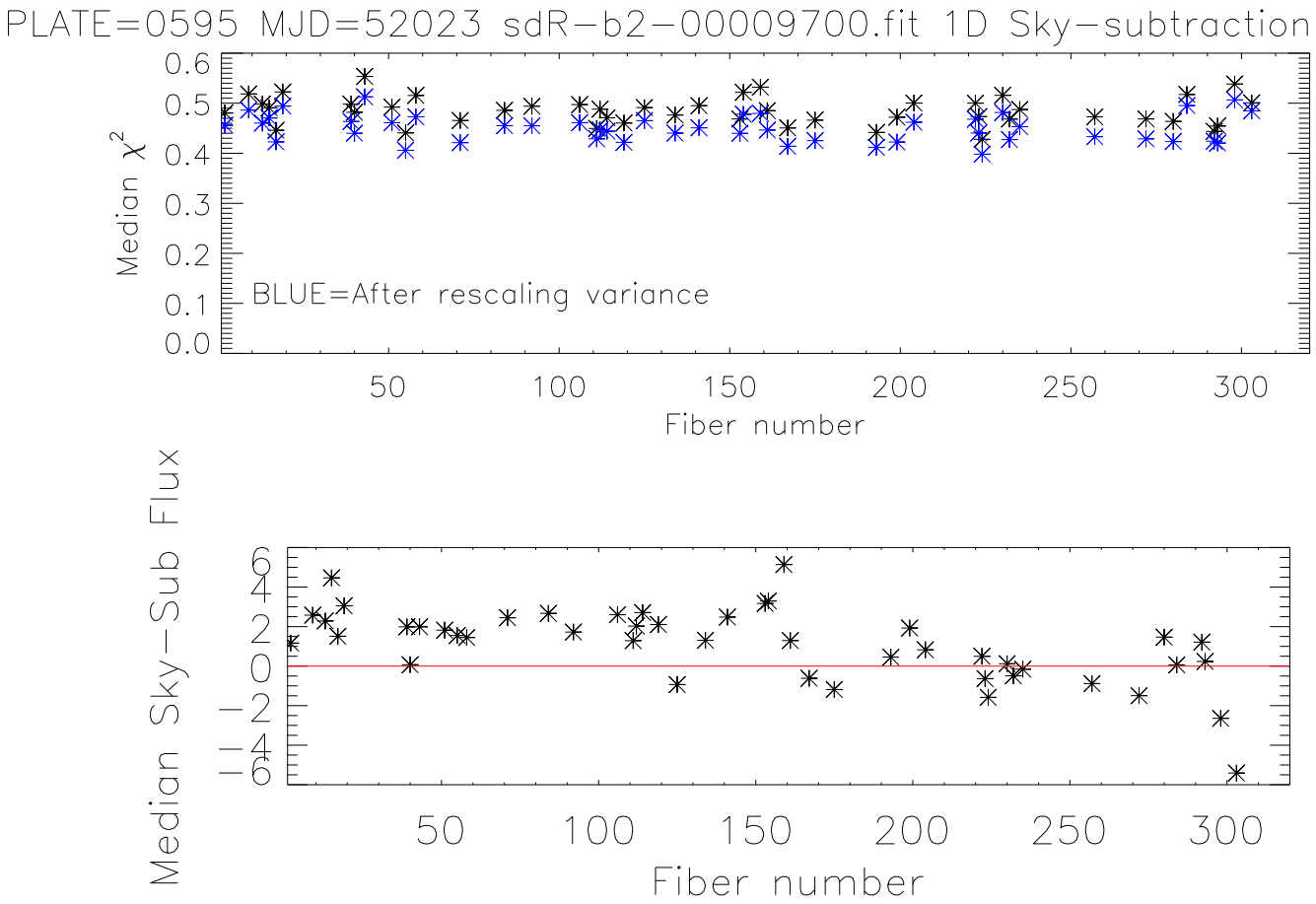

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

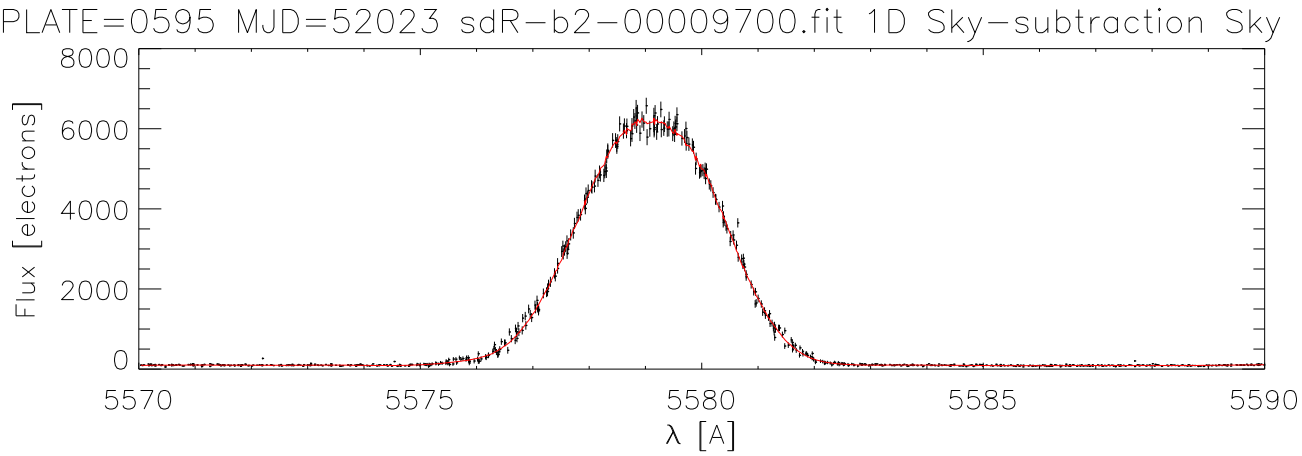

4046.5600
nfib1 47
nfib2 47
stdev 0.115
extra −0.04
4358.3300
nfib1 48
nfib2 48
stdev 0.057
extra −0.07
5460.9400
nfib1 48
nfib2 48
stdev 0.036
extra 0.05
5577.3390
nfib1 48
nfib2 48
stdev 0.018
extra 0.11
5889.9500
nfib1 47
nfib2 47
stdev 0.022
extra 0.16
5895.9240
nfib1 47
nfib2 47
stdev 0.036
extra 0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

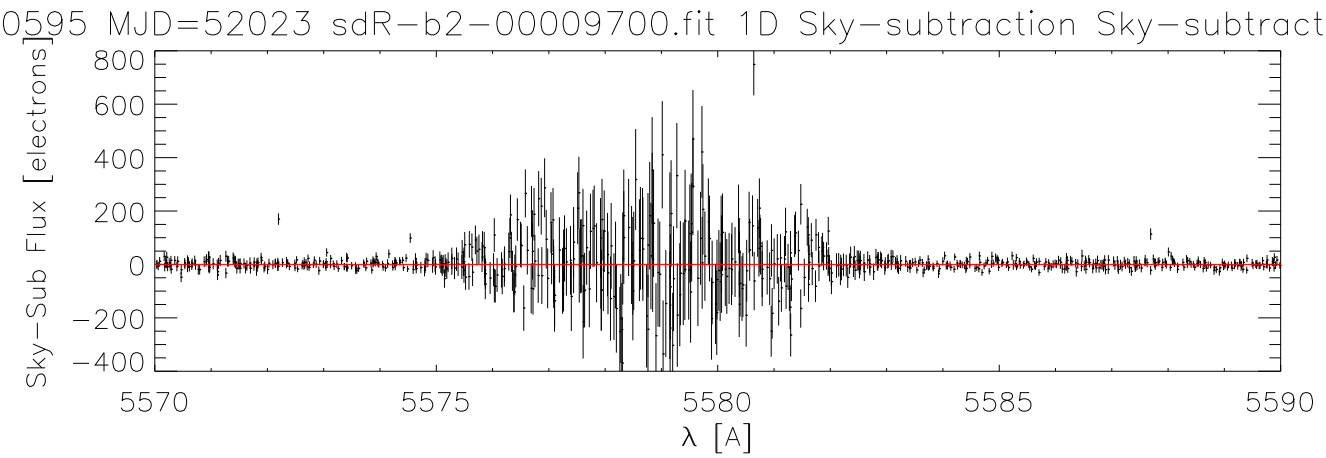

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

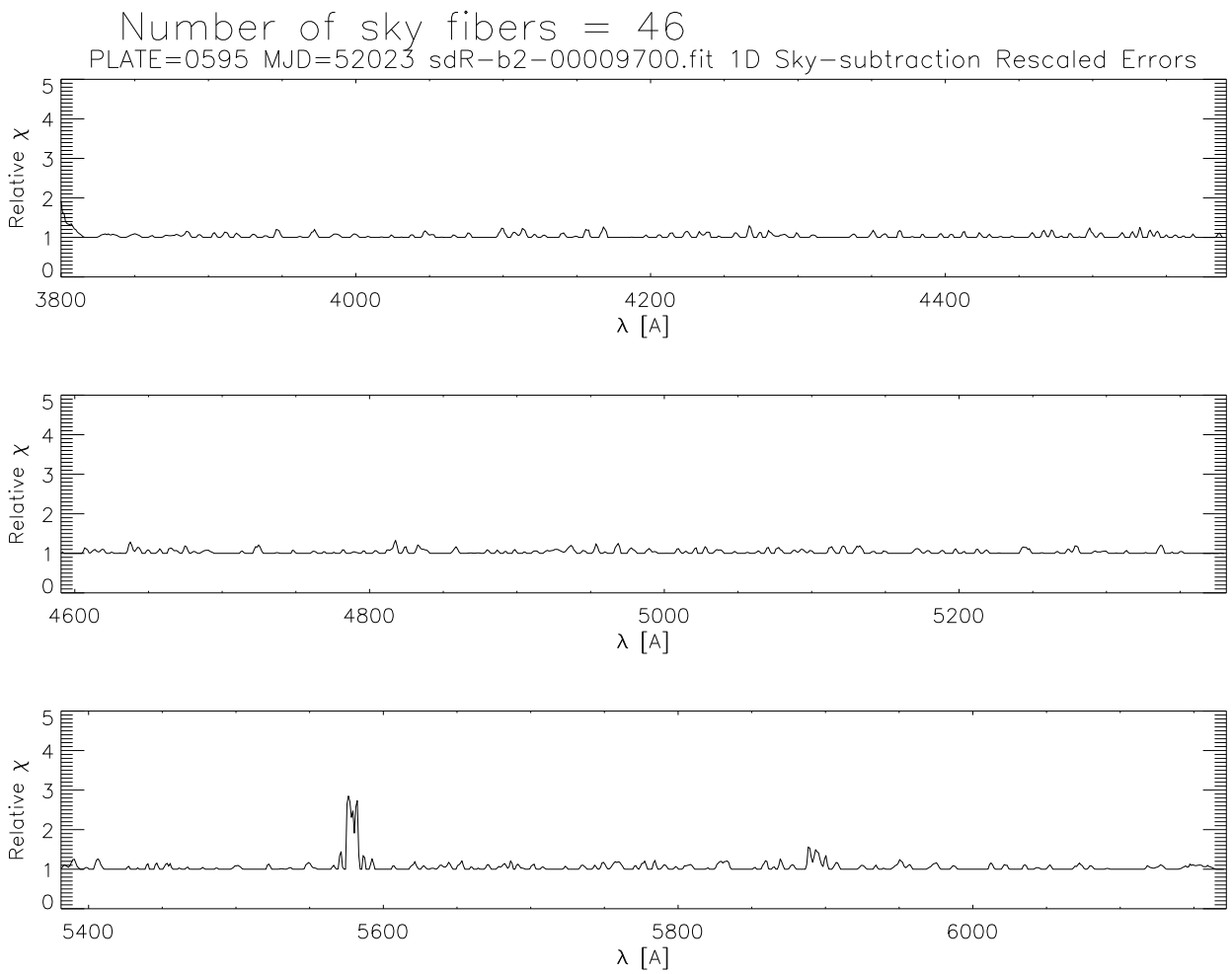

PLATE=0595 MJD=52023 Smooth superflat for sdR-b2-00009700.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

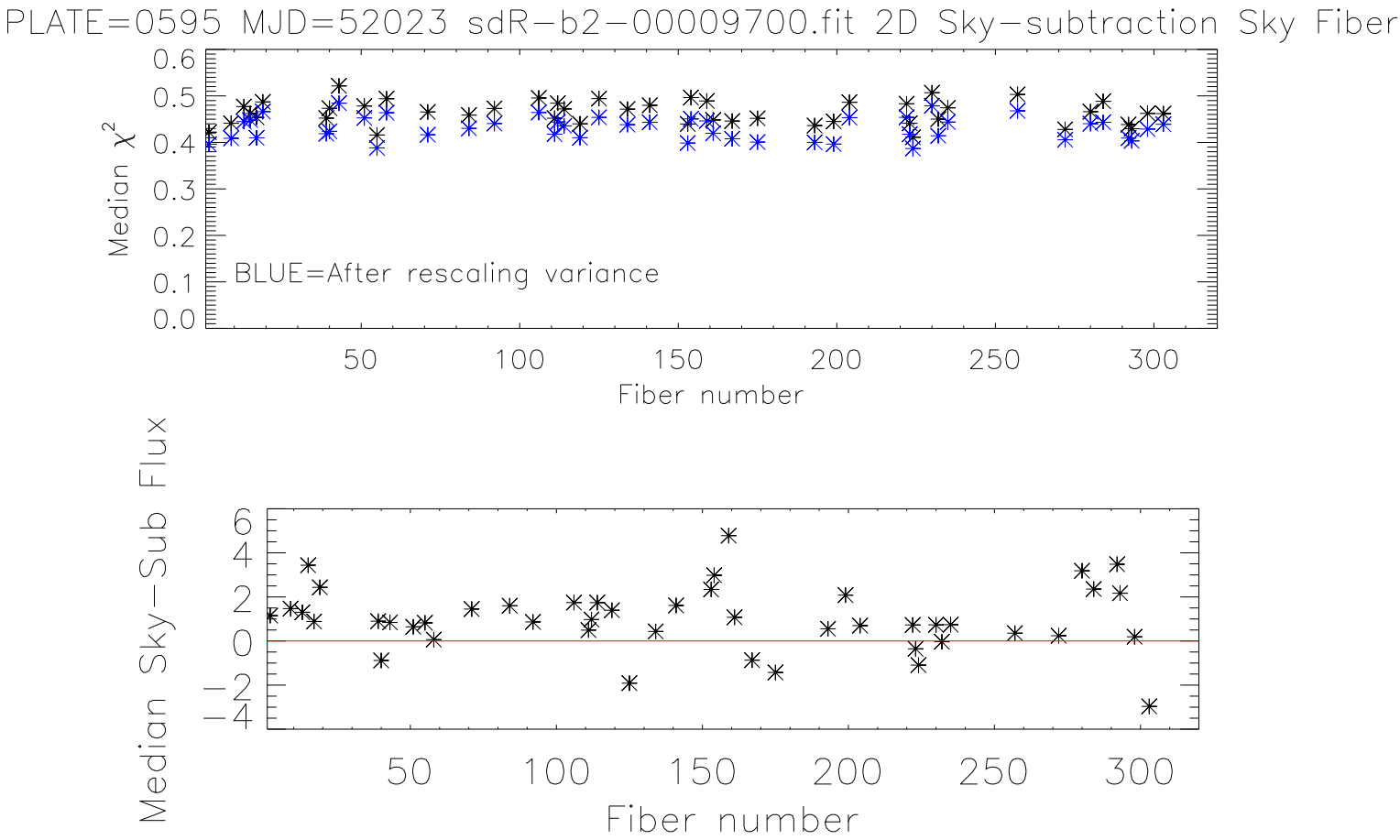
es= −0.0000

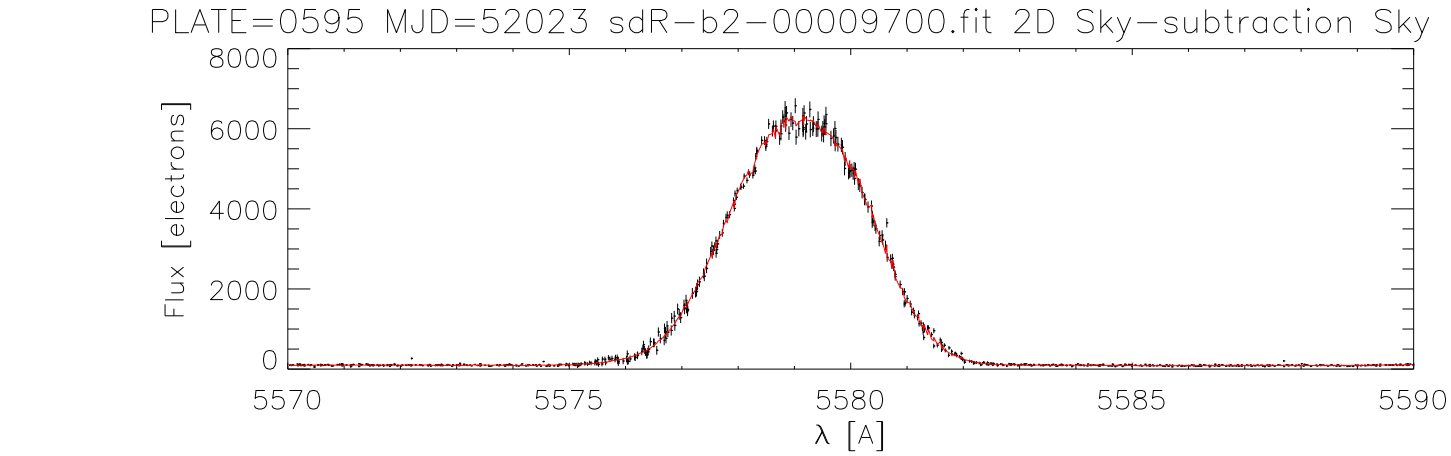

PLATE=0595 MJD=52023 sdR-b2-00009700.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

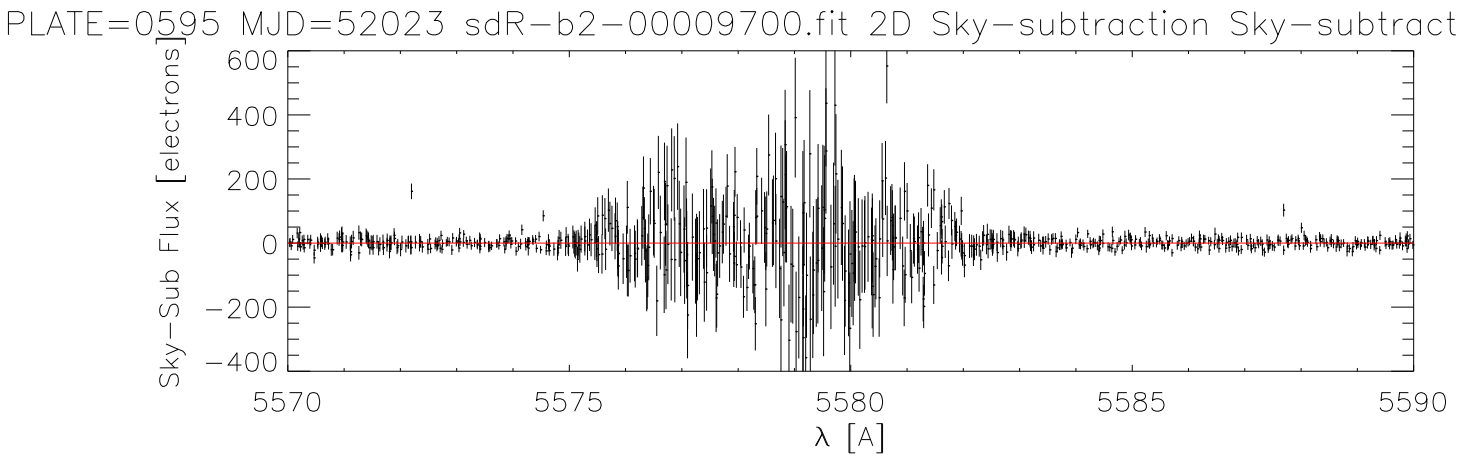

PLATE=0595 MJD=52023 sdR-b2-00009700.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

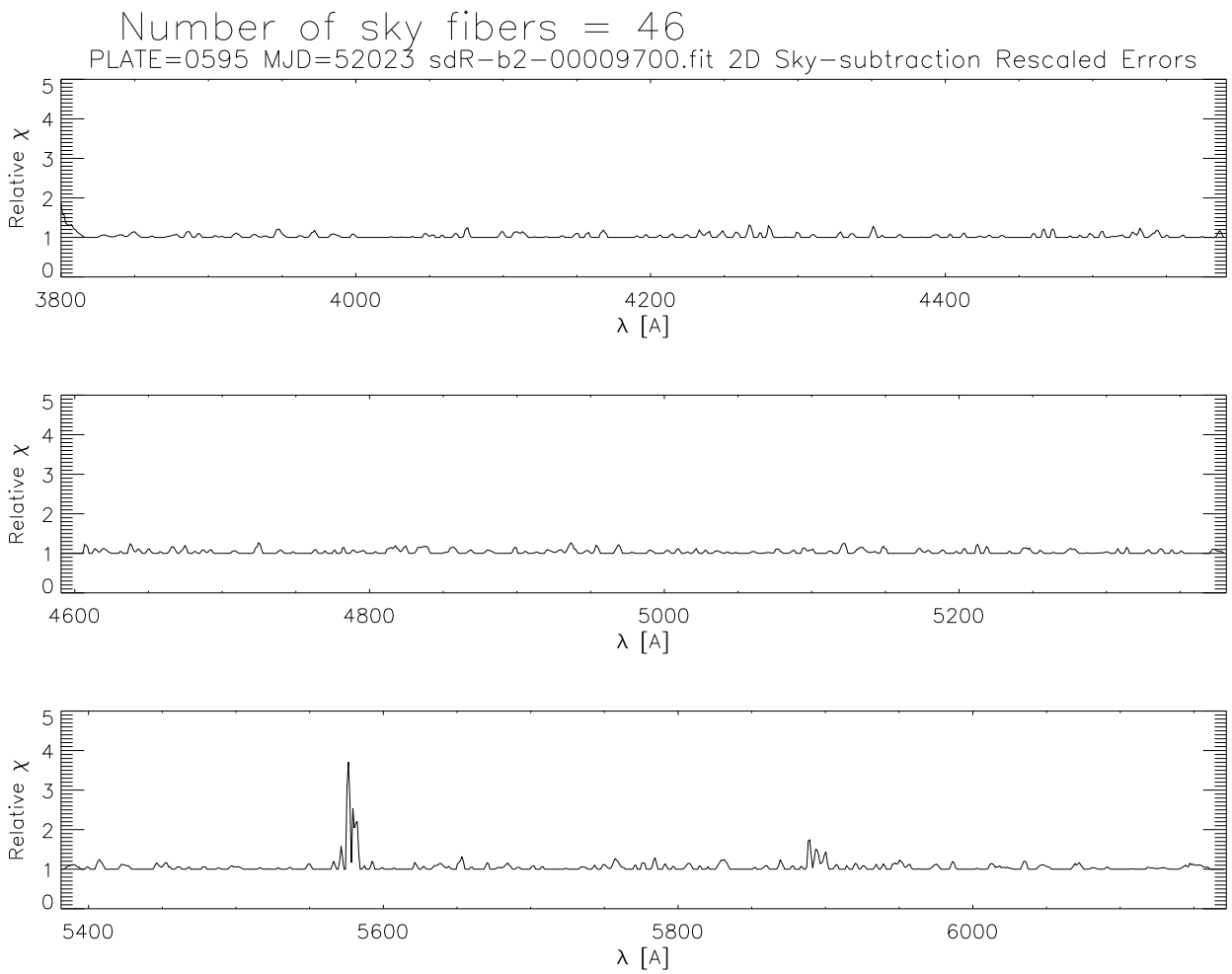

PLATE=0595 MJD=52023 sdR-b2-00009700.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

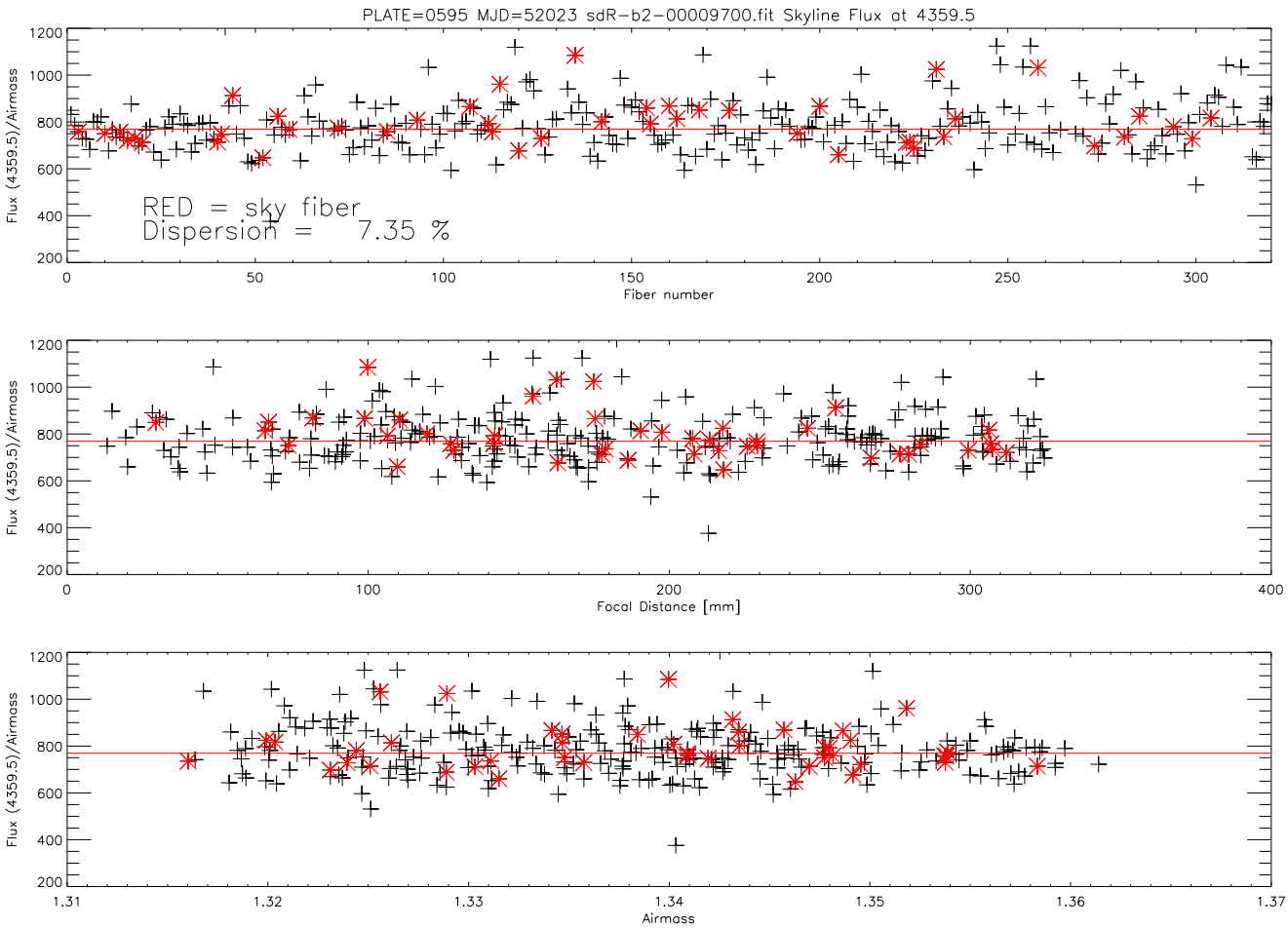

Number of sky fibers = 46
PLATE=0595 MJD=52023 sdR-b2-00009700.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

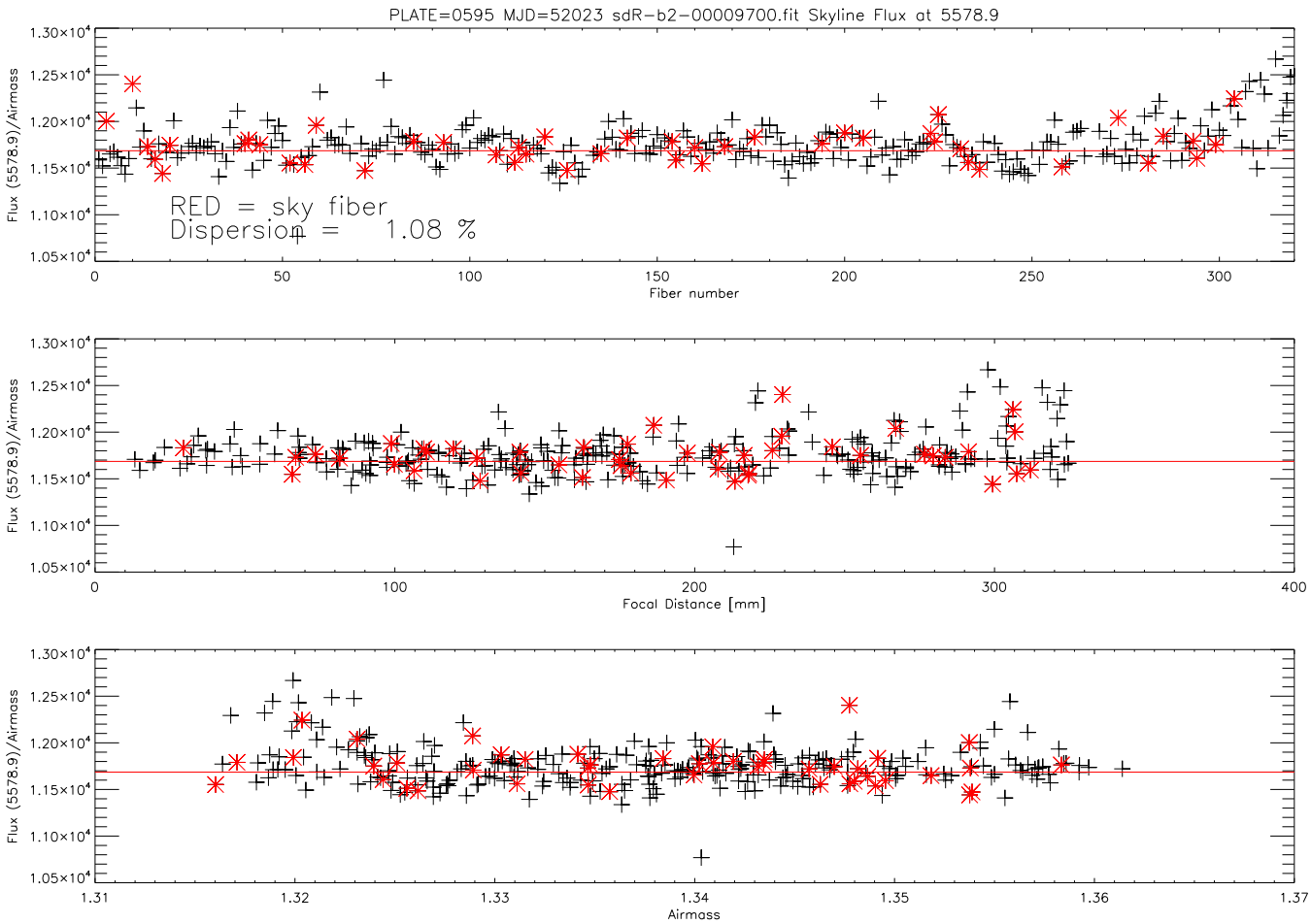

PLATE=0595 MJD=52023 sdR-b2-00009700.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

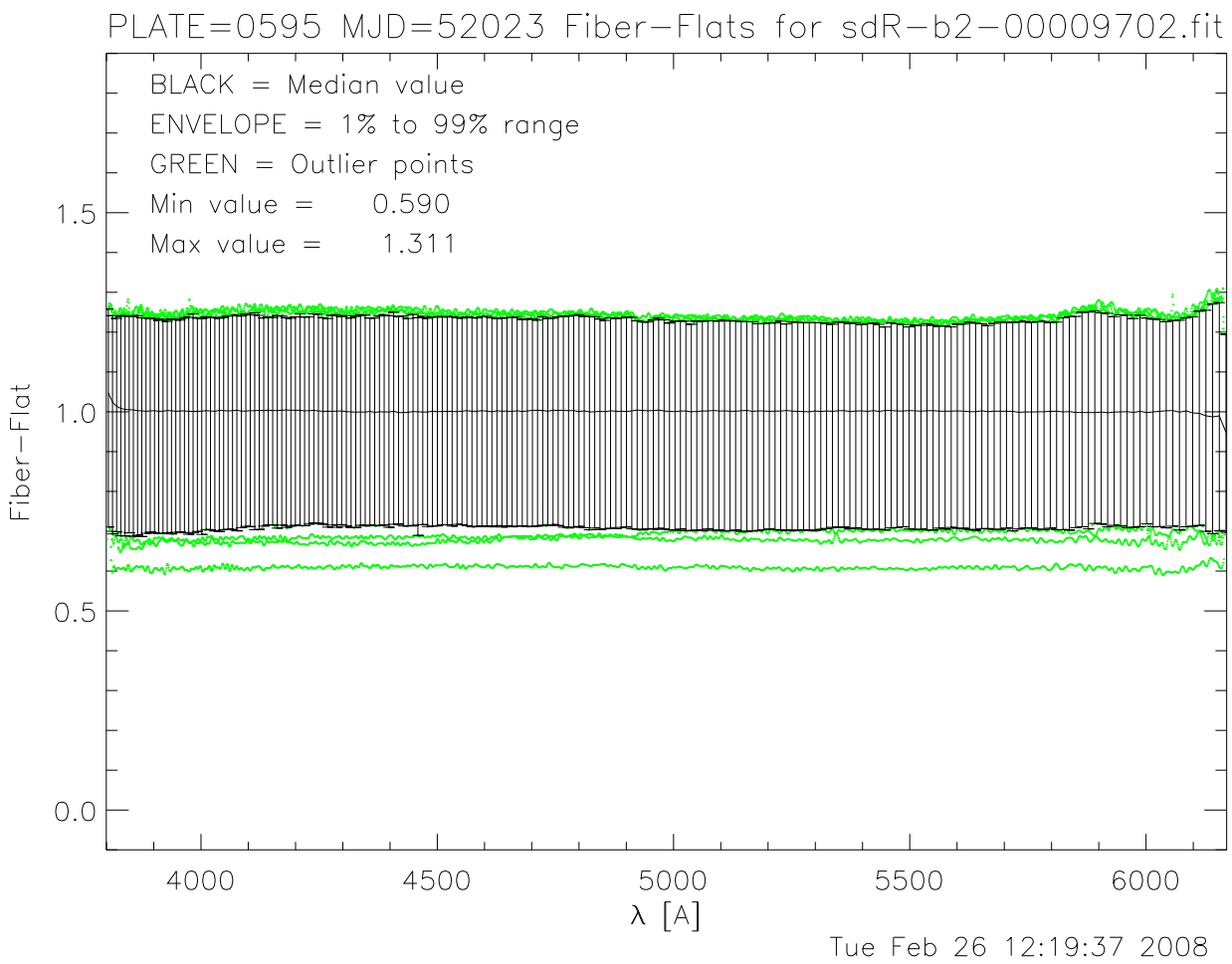

PLATE=0595 MJD=52023 sdR-b2-00009700.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

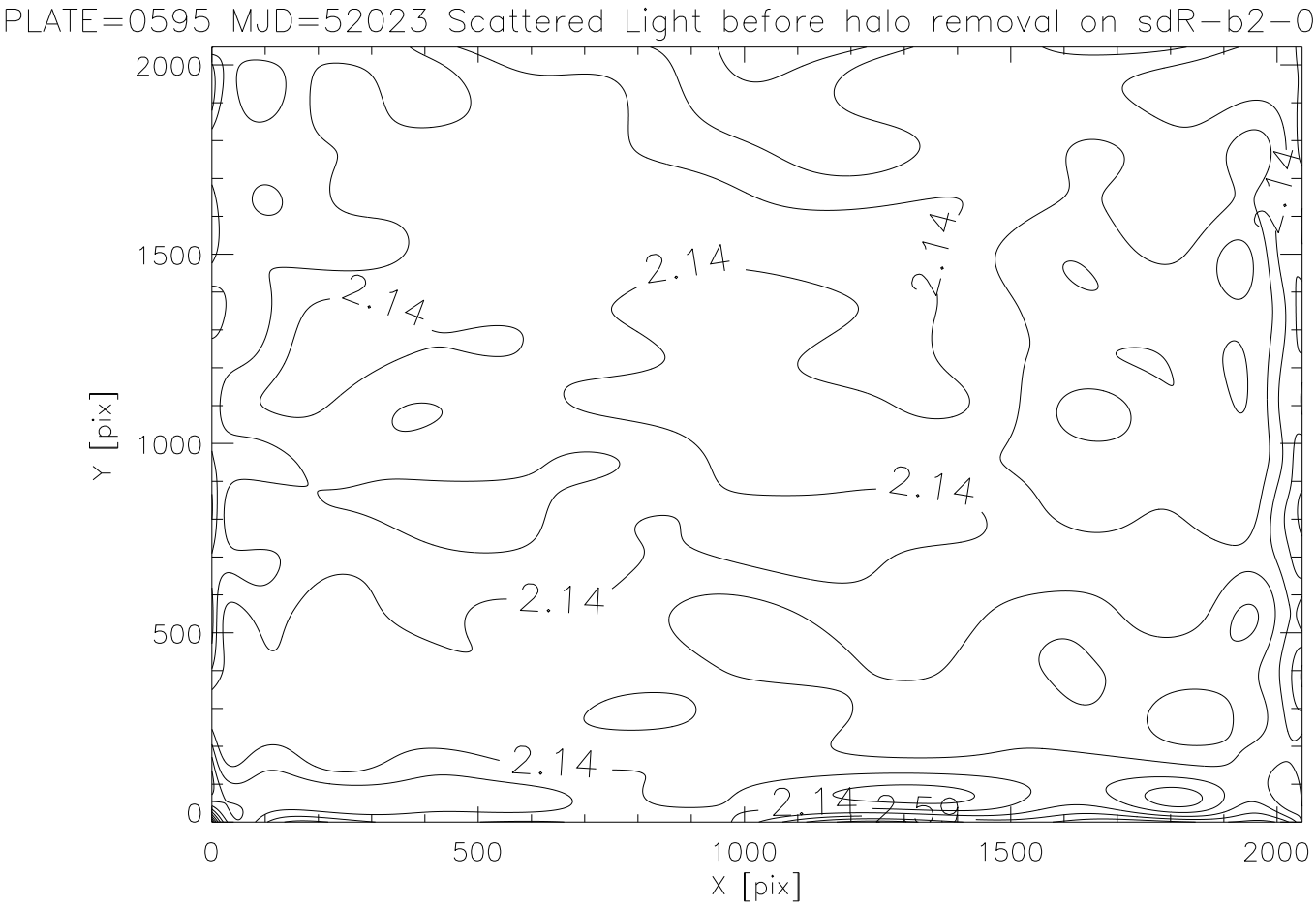

PLATE=0595 MJD=52023 sdR-b2-00009700.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

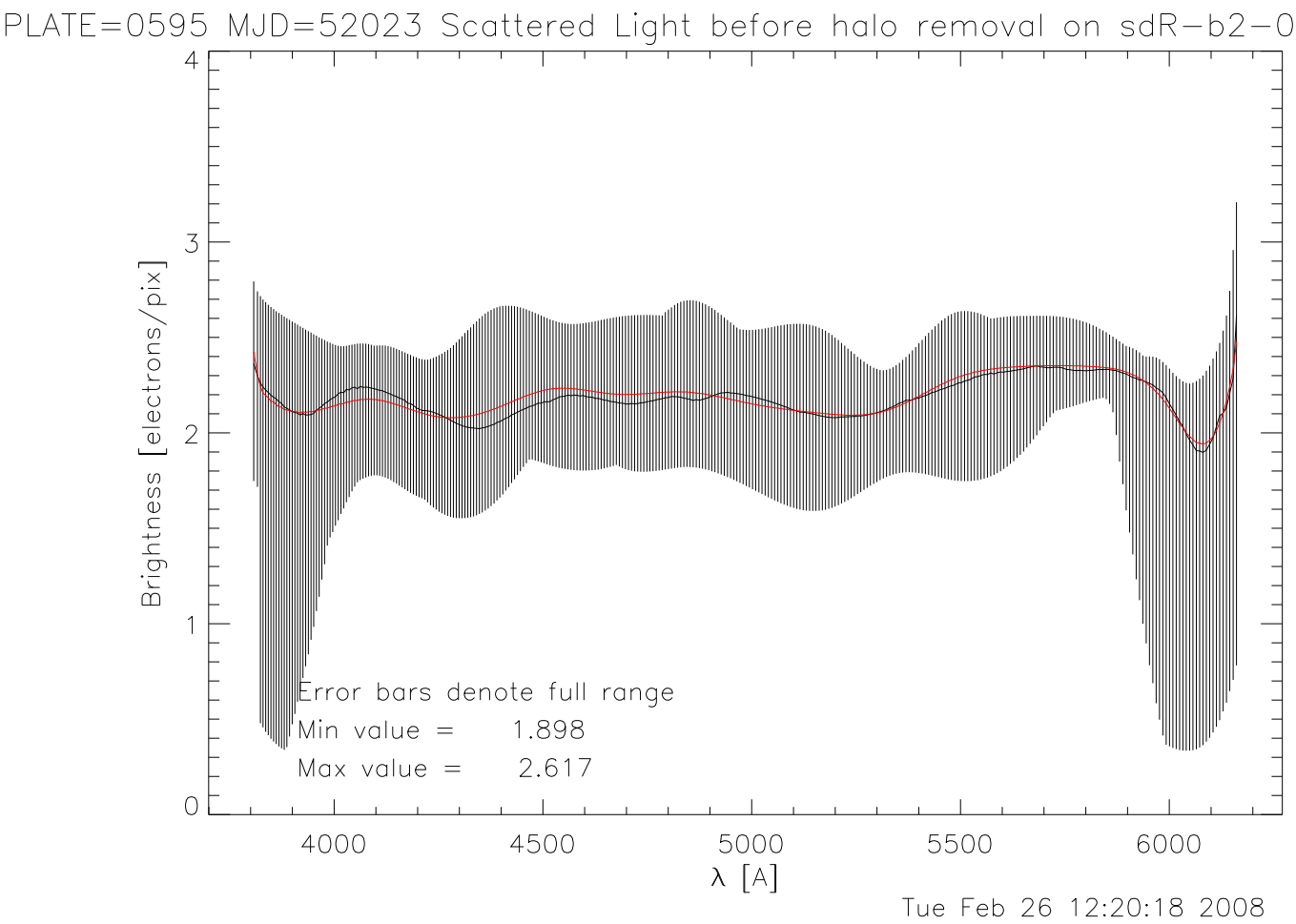

Number of sky fibers = 46
PLATE=0595 MJD=52023 sdR-b2-00009700.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

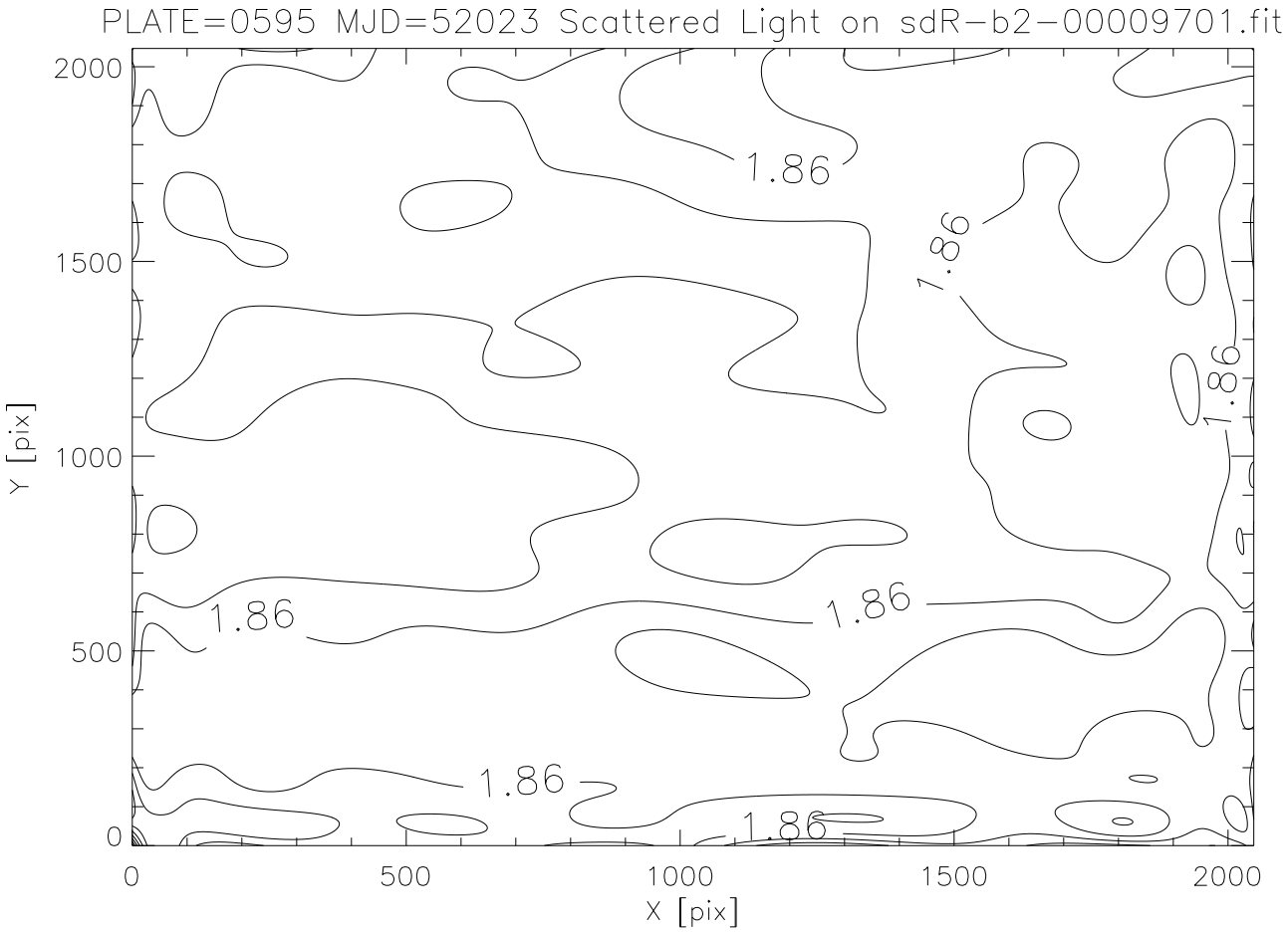

PLATE=0595 MJD=52023 sdR-b2-00009700.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 7.35 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

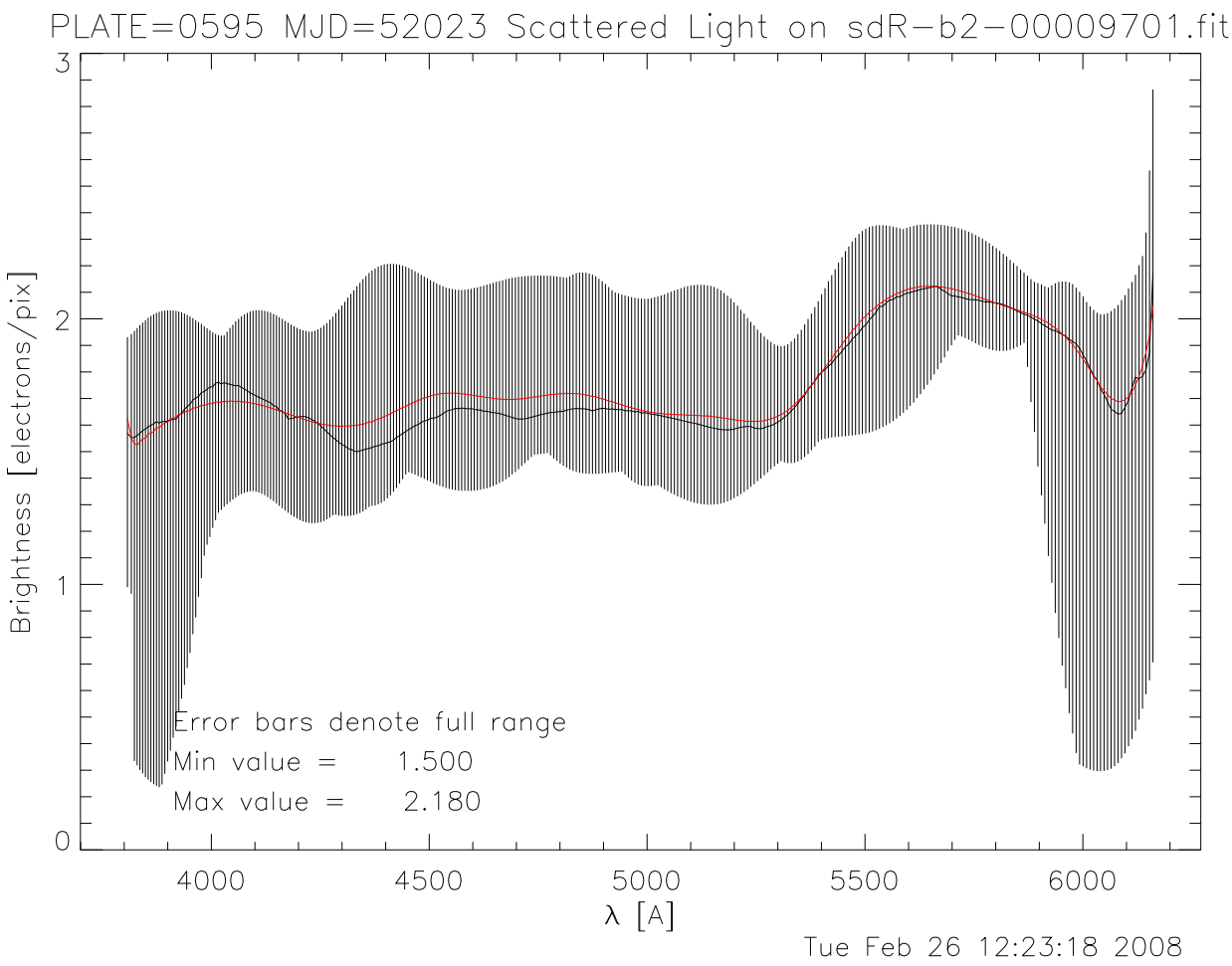

PLATE=0595 MJD=52023 sdR-b2-00009700.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.08 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

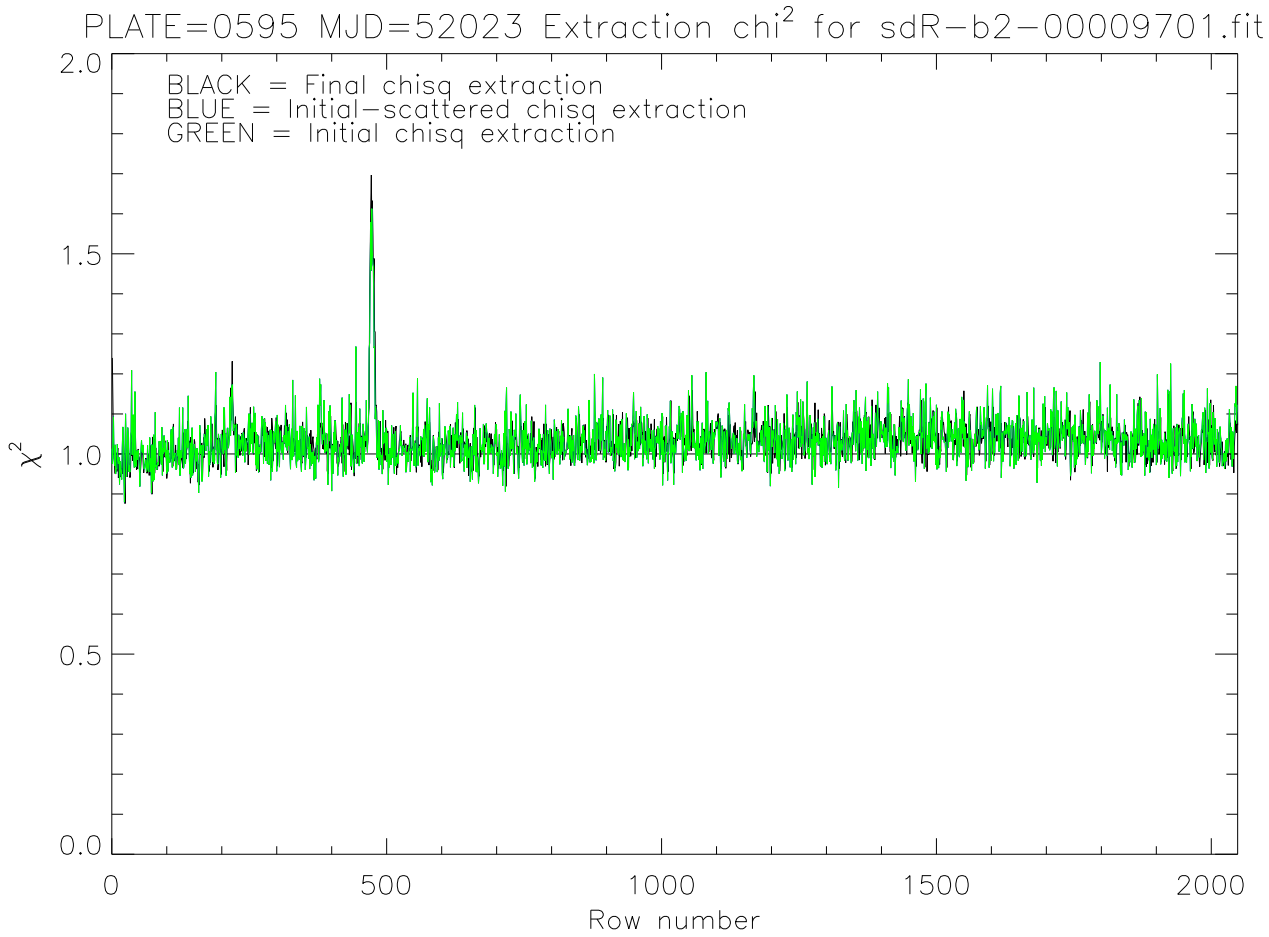

PLATE=0595 MJD=52023 Fiber-Flats for sdR-b2-00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.590
Max value = 1.311
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 12:19:37 2008

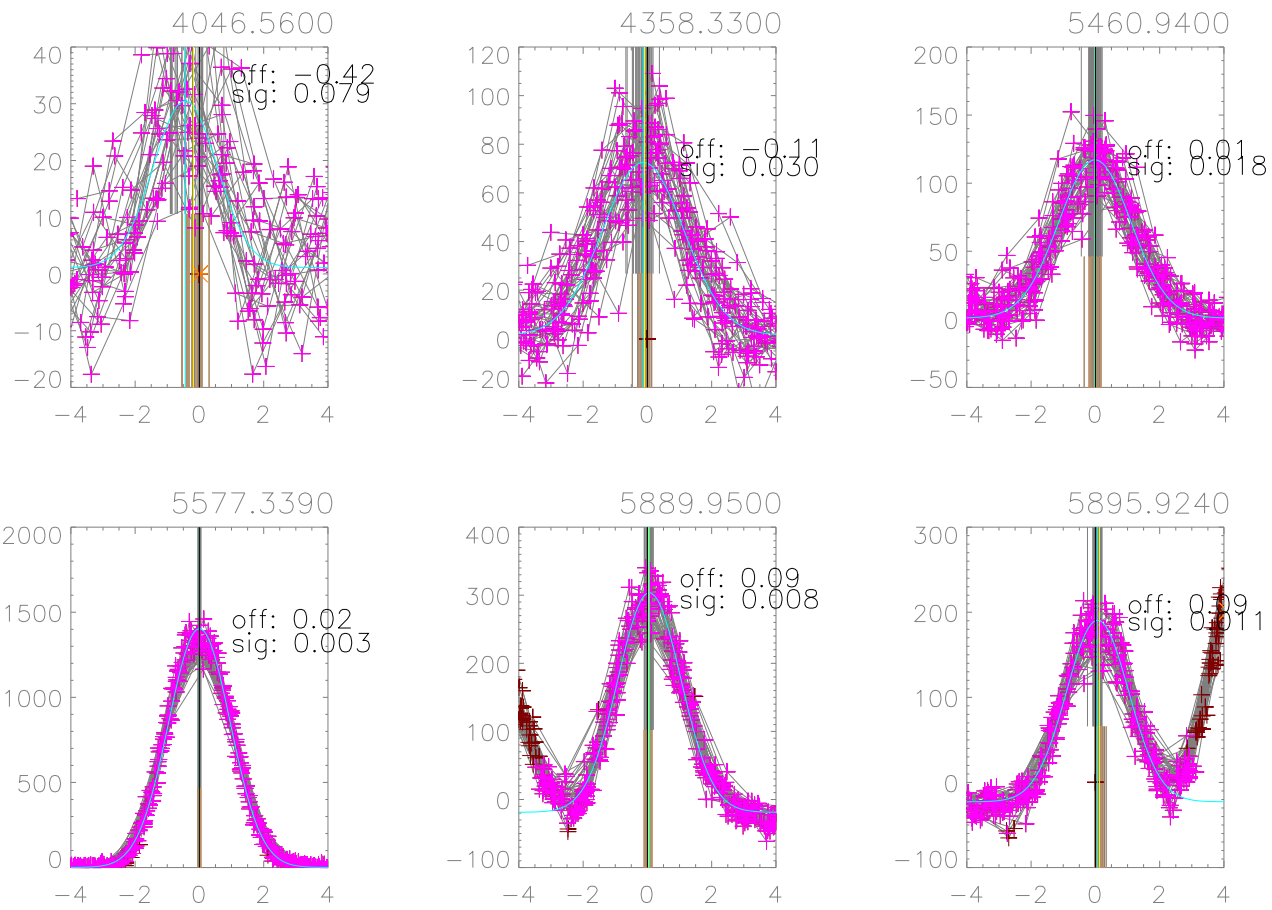

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR−b2−00009701.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
2.14
2.14
2.14
2.14
2.14
2.14
2.14
2.14
2.59

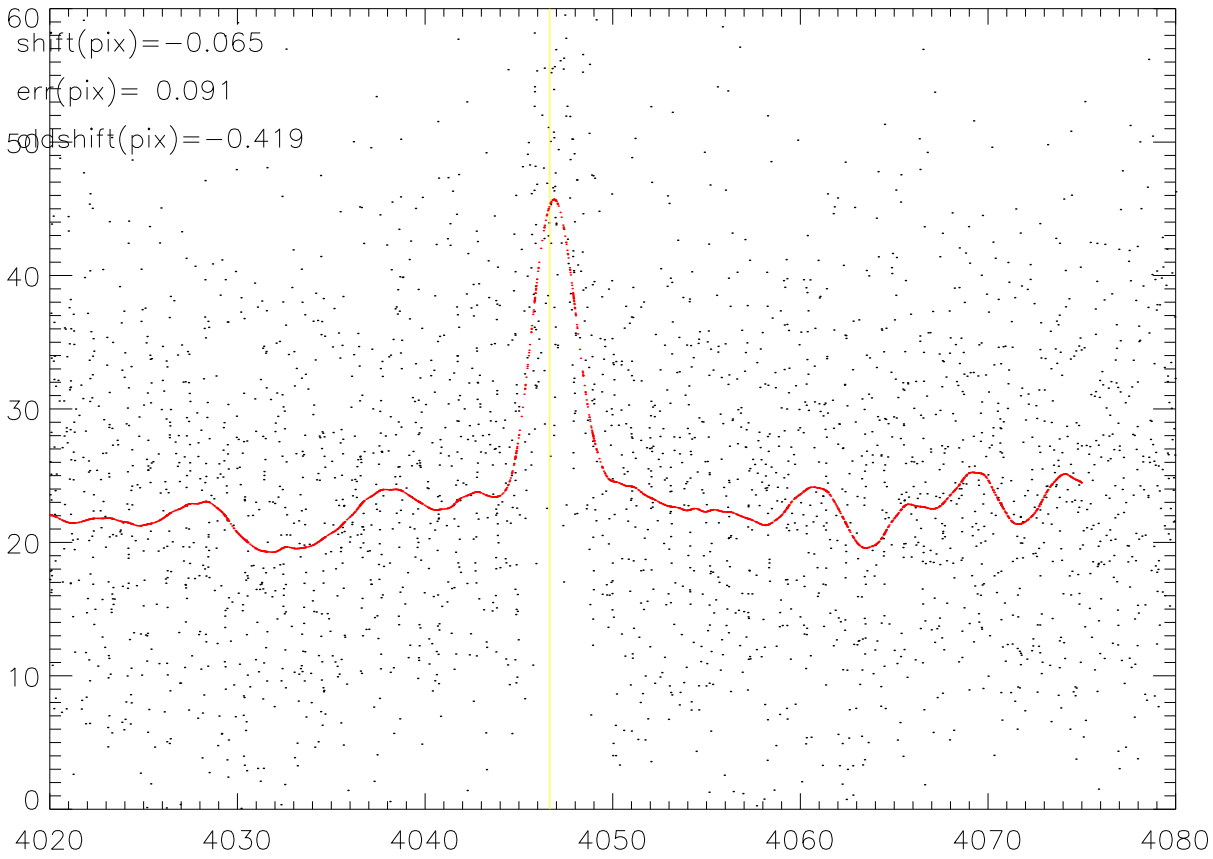

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-b2-00009701.f
Brightness [electrons/pix]
0
1
2
3
4
Error bars denote full range
Min value = 1.898
Max value = 2.617
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 12:20:18 2008

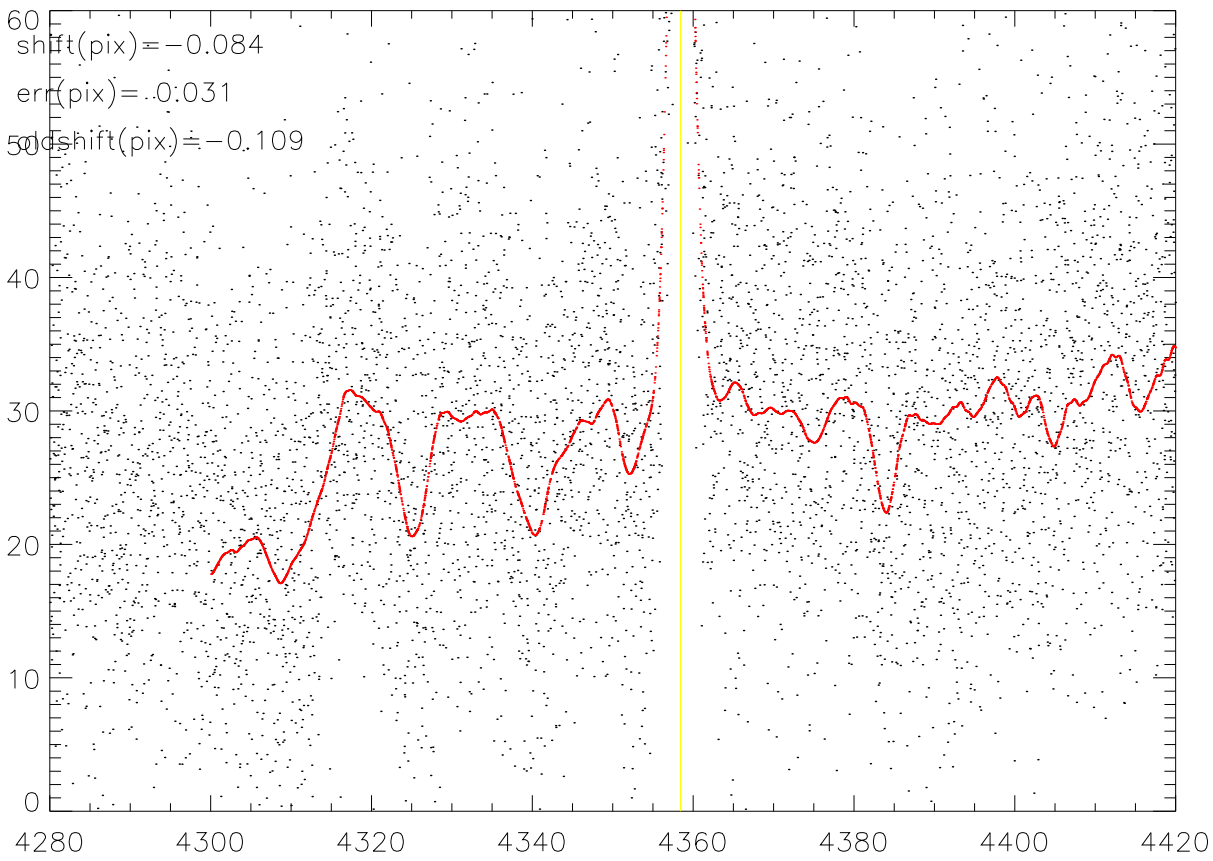

PLATE=0595 MJD=52023 Scattered Light on sdR-b2-00009701.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.86
1.86
1.86
1.86
1.86
1.86
1.86

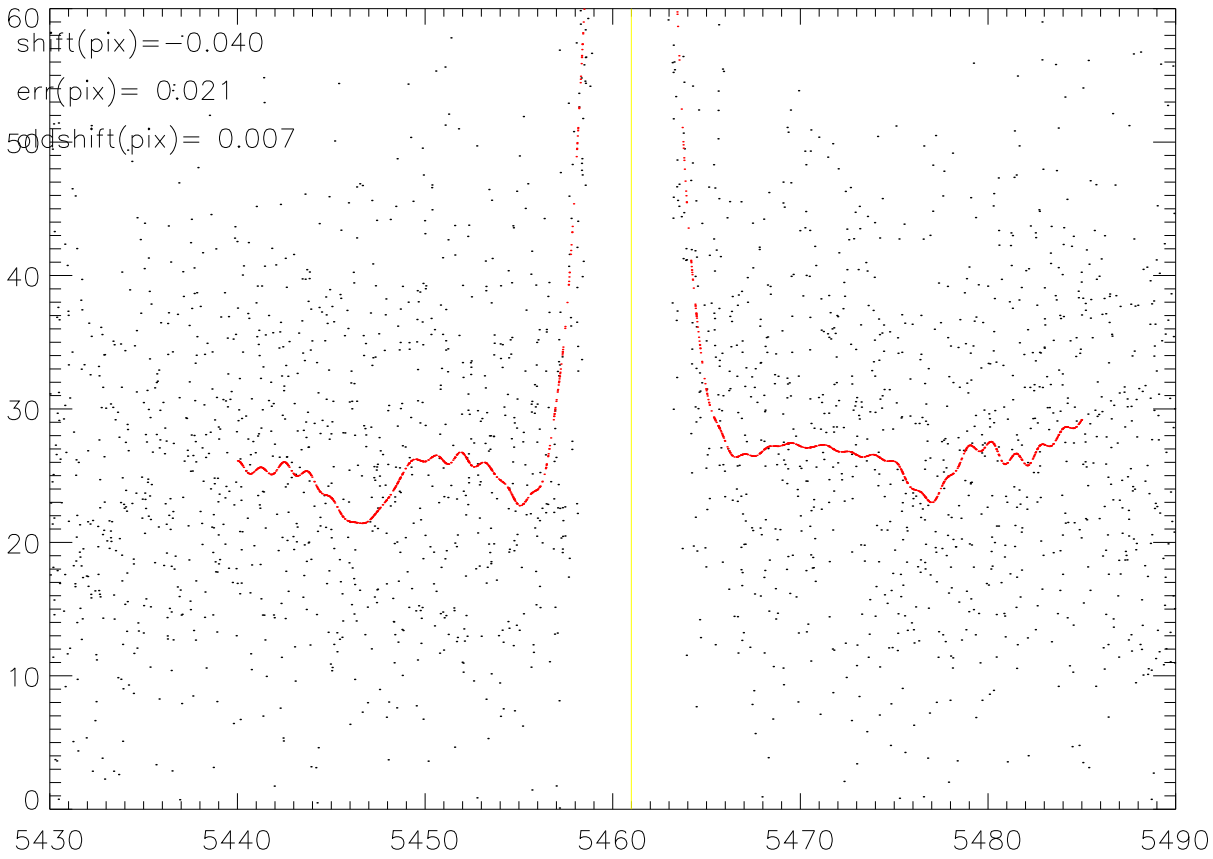

PLATE=0595 MJD=52023 Scattered Light on sdR-b2-00009701.fit
Brightness [electrons/pix]
3
2
1
0
Error bars denote full range
Min value = 1.500
Max value = 2.180
4000
4500
5000
5500
6000
λ [A]
Tue Feb 26 12:23:18 2008

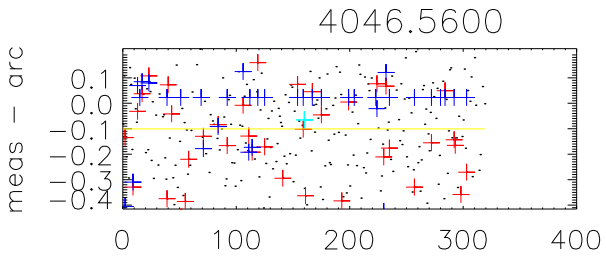

PLATE=0595 MJD=52023 Extraction chi^2 for sdR-b2-00009701.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

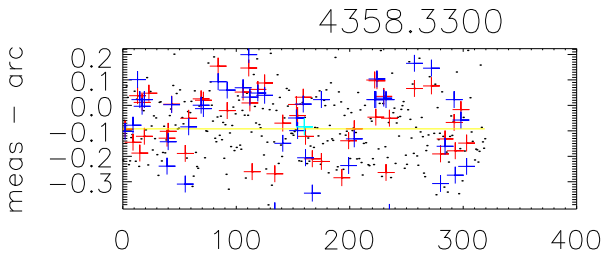

4046.5600
off: −0.42
sig: 0.079
4358.3300
off: −0.11
sig: 0.030
5460.9400
off: 0.01
sig: 0.018
5577.3390
off: 0.02
sig: 0.003
5889.9500
off: 0.09
sig: 0.008
5895.9240
off: 0.09
sig: 0.011

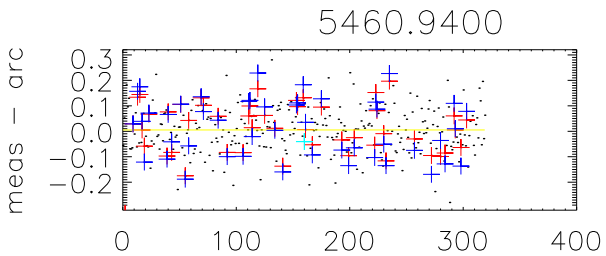

shift(pix)=−0.065
err(pix)= 0.091
oldshift(pix)=−0.419
60
50
40
30
20
10
0
4020
4030
4040
4050
4060
4070
4080

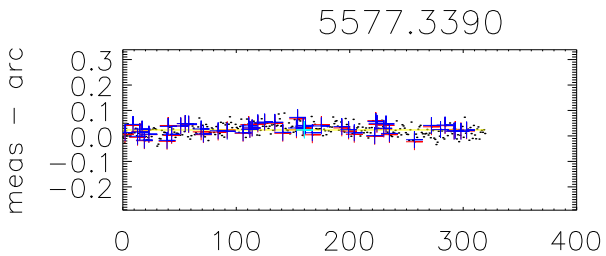

shift(pix)=−0.084
err(pix)= 0.031
oldshift(pix)=−0.109
60
50
40
30
20
10
0
4280
4300
4320
4340
4360
4380
4400
4420

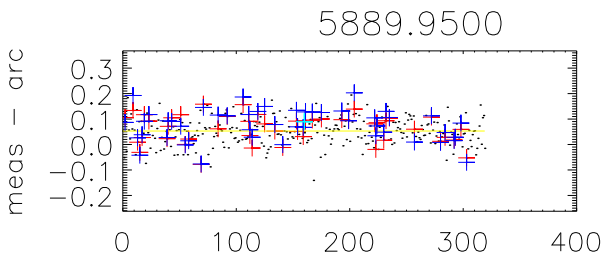

shift(pix)=−0.040
err(pix)= 0.021
oldshift(pix)= 0.007
60
50
40
30
20
10
0
5430
5440
5450
5460
5470
5480
5490

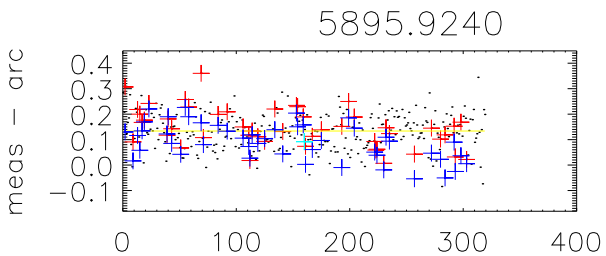

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

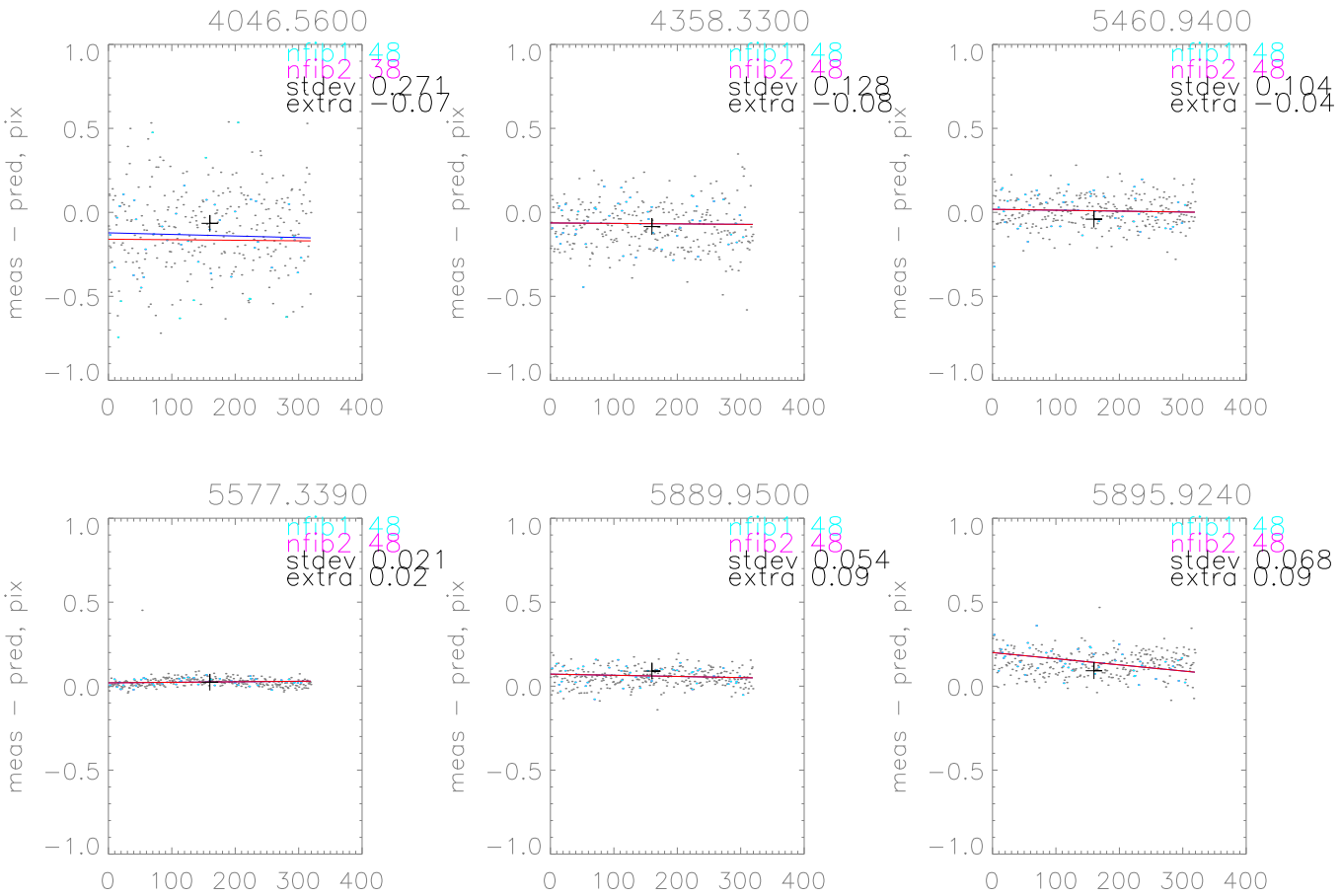

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

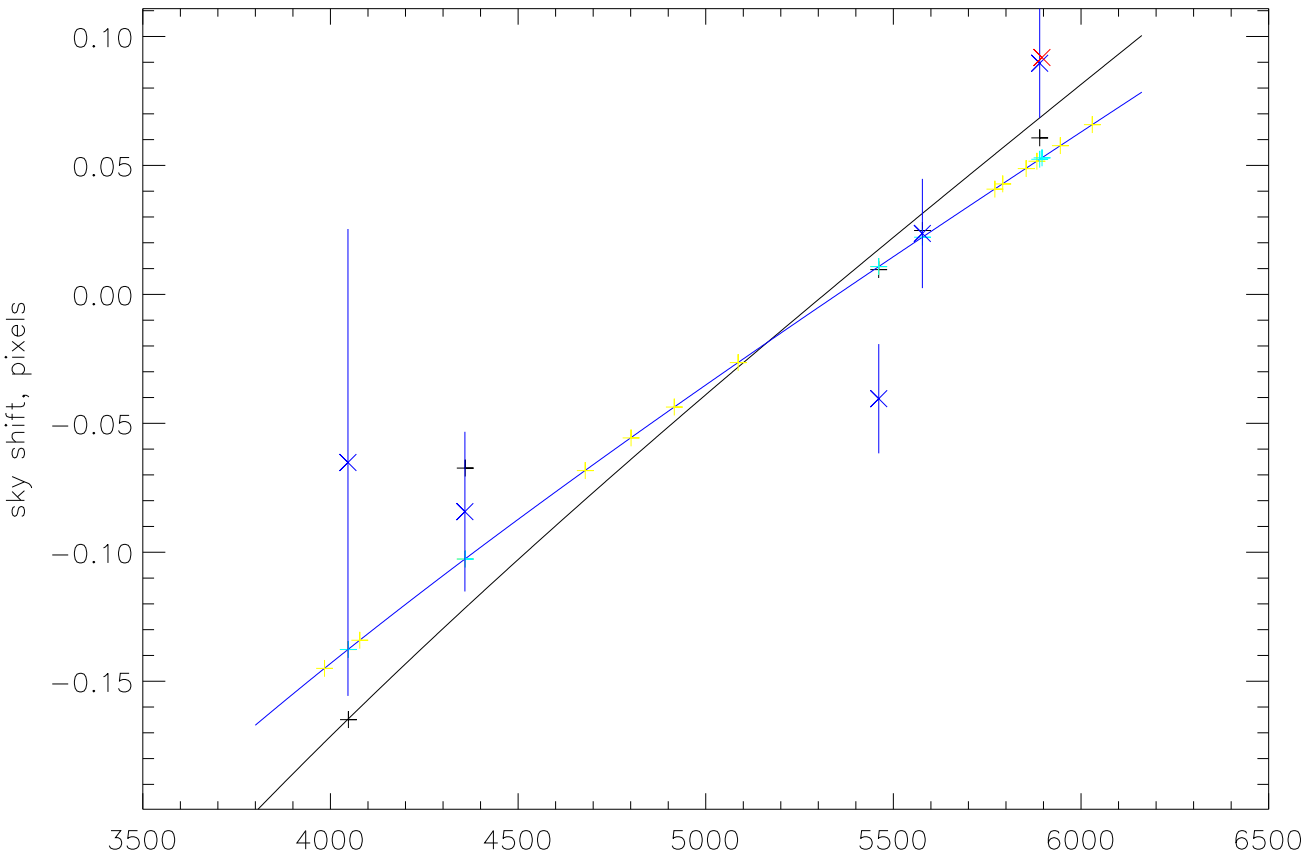

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

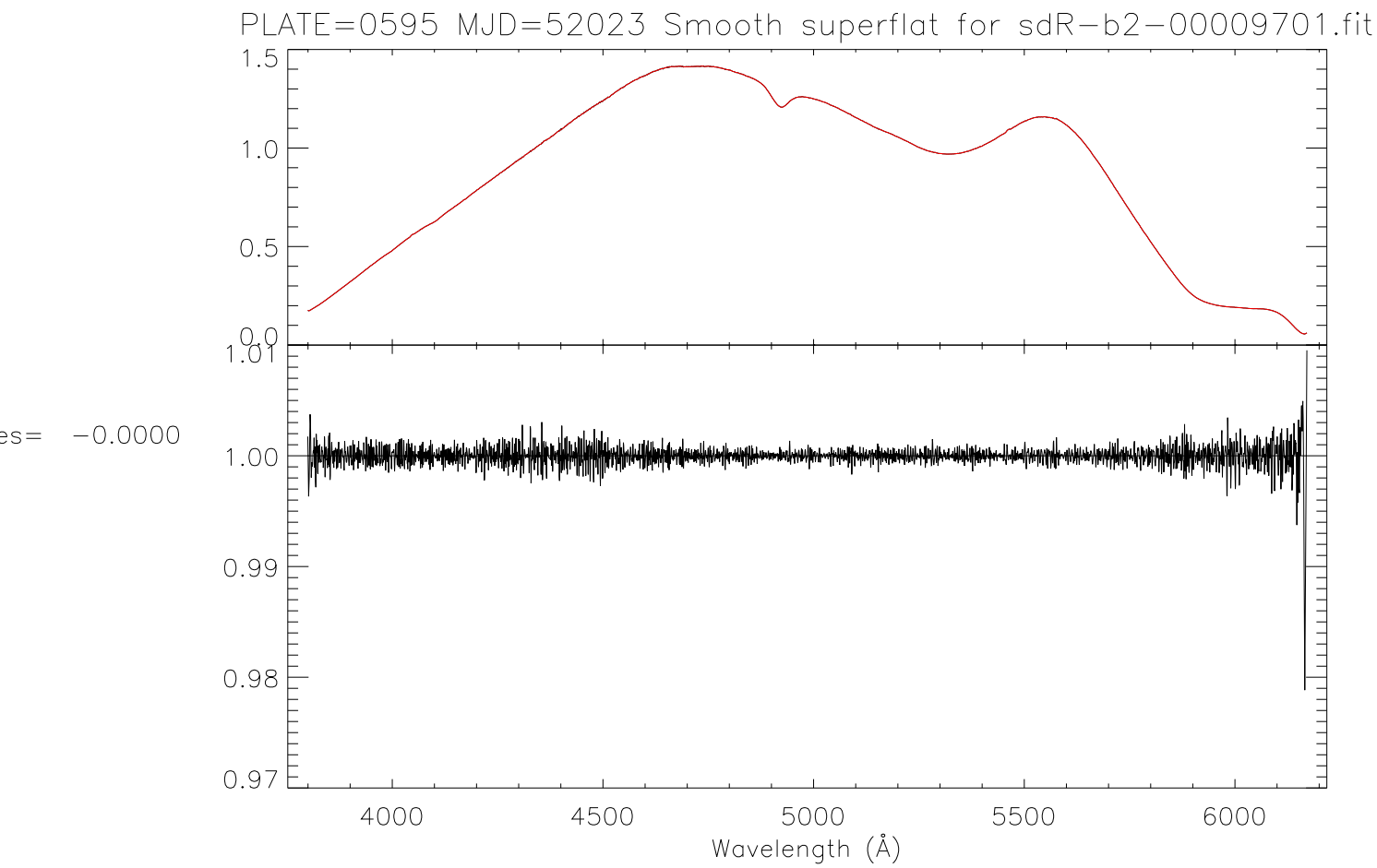

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

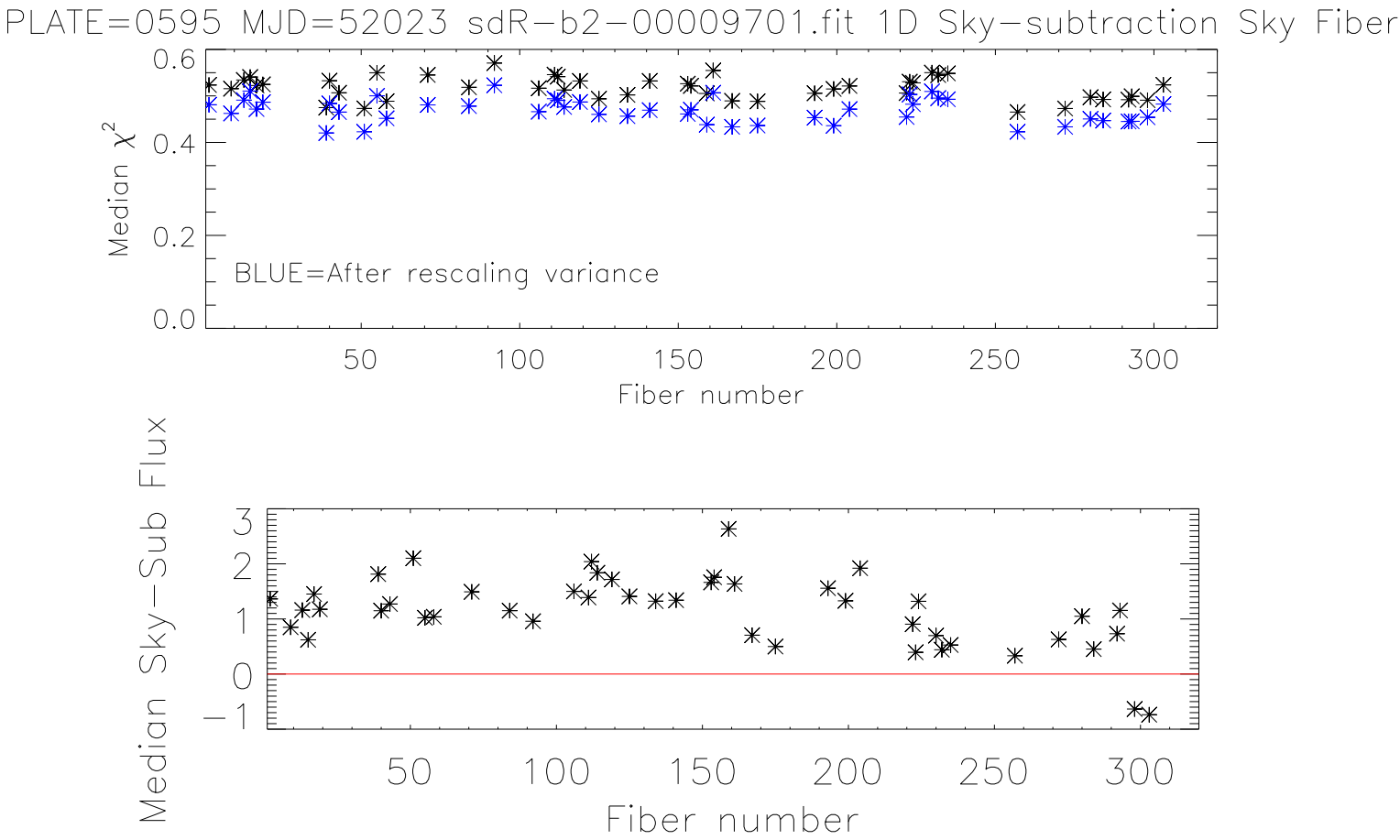

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

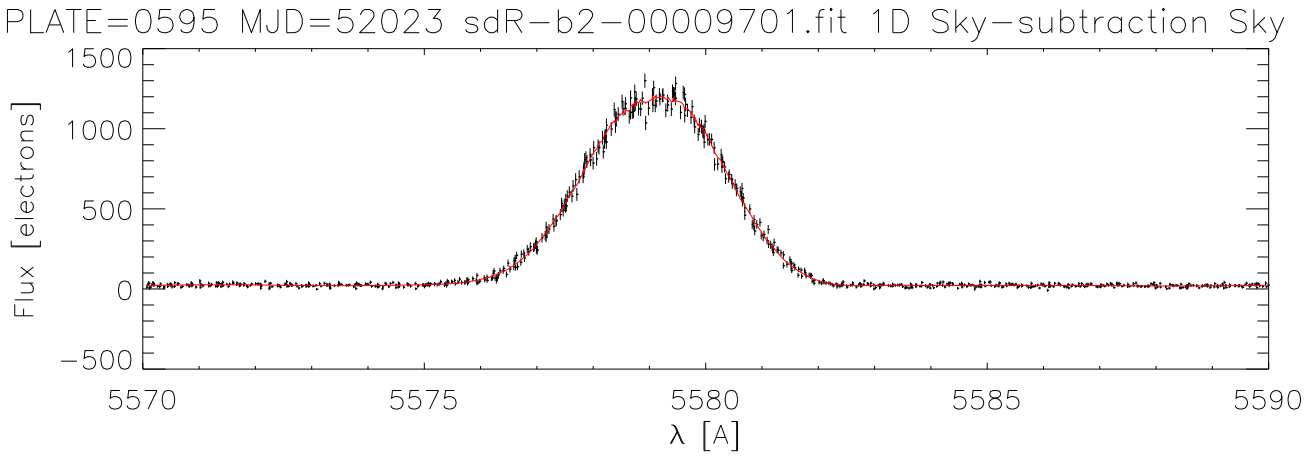

4046.5600
nfib1 48
nfib2 38
stdev 0.271
extra −0.07
4358.3300
nfib1 48
nfib2 48
stdev 0.128
extra −0.08
5460.9400
nfib1 48
nfib2 48
stdev 0.104
extra −0.04
5577.3390
nfib1 48
nfib2 48
stdev 0.021
extra 0.02
5889.9500
nfib1 48
nfib2 48
stdev 0.054
extra 0.09
5895.9240
nfib1 48
nfib2 48
stdev 0.068
extra 0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

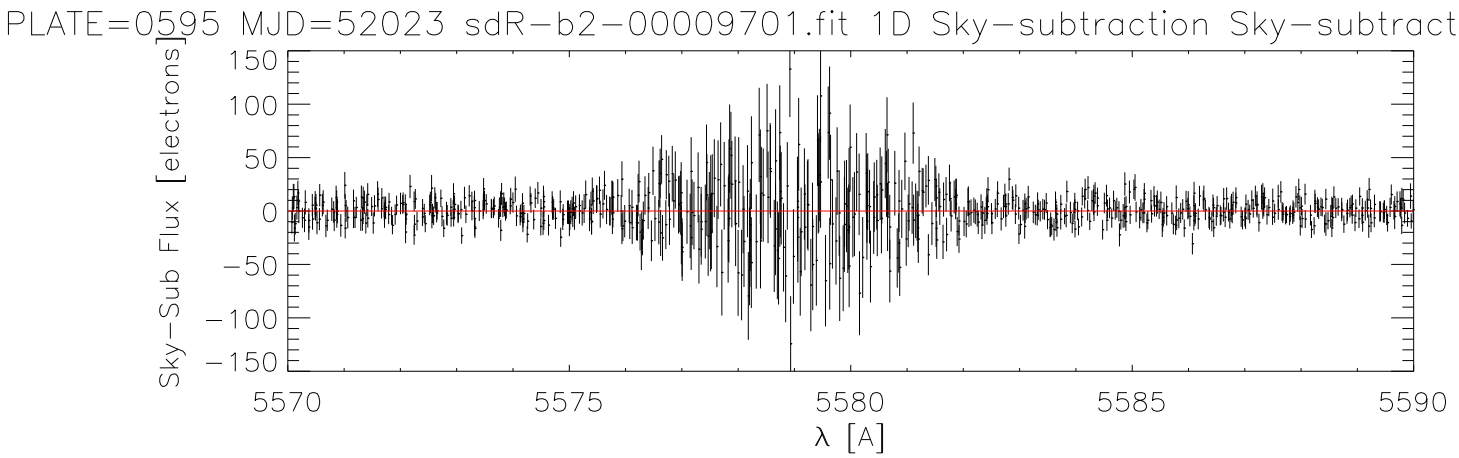

0.10
0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

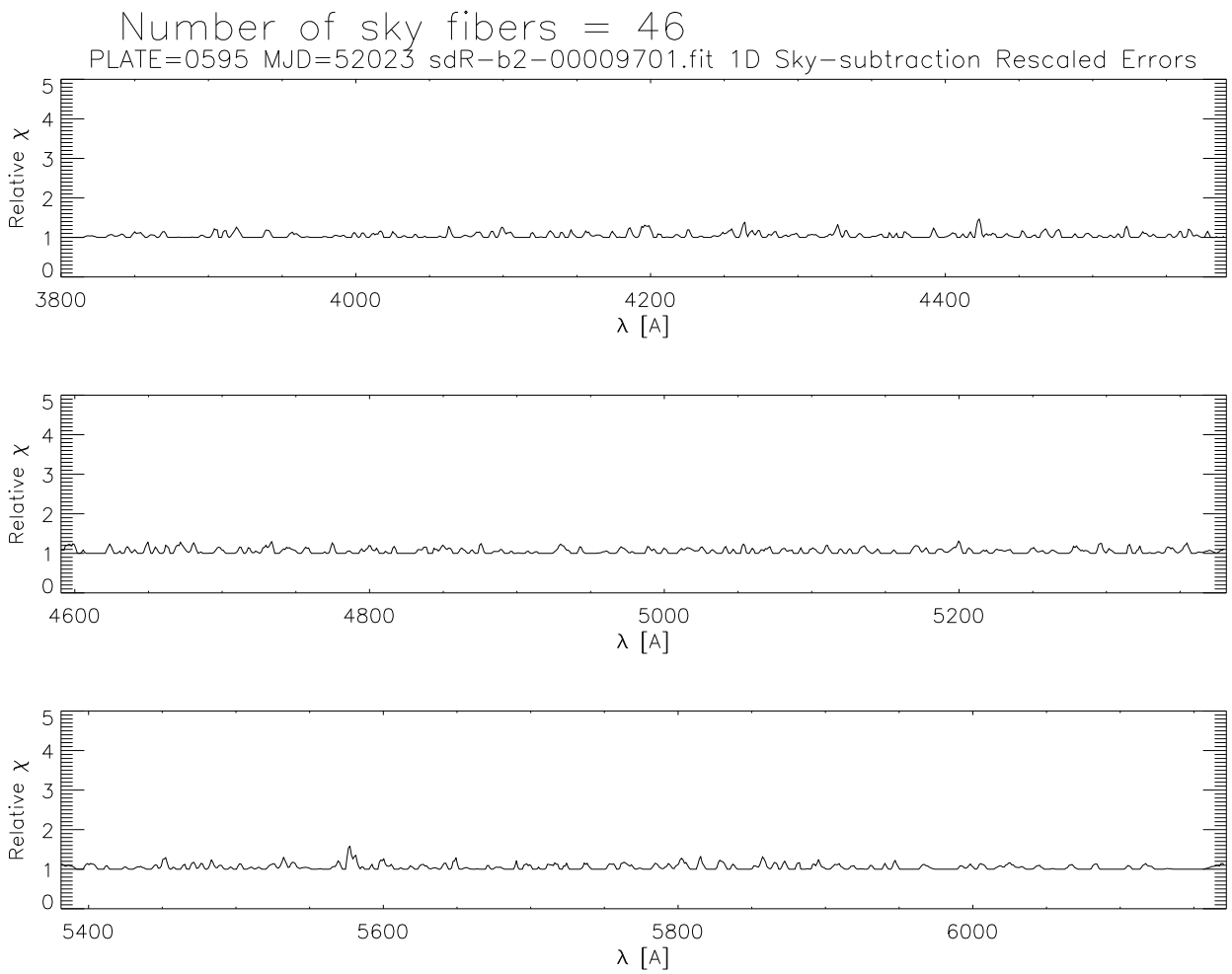

PLATE=0595 MJD=52023 Smooth superflat for sdR-b2-00009701.fit
1.5
1.0
0.5
0.0
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

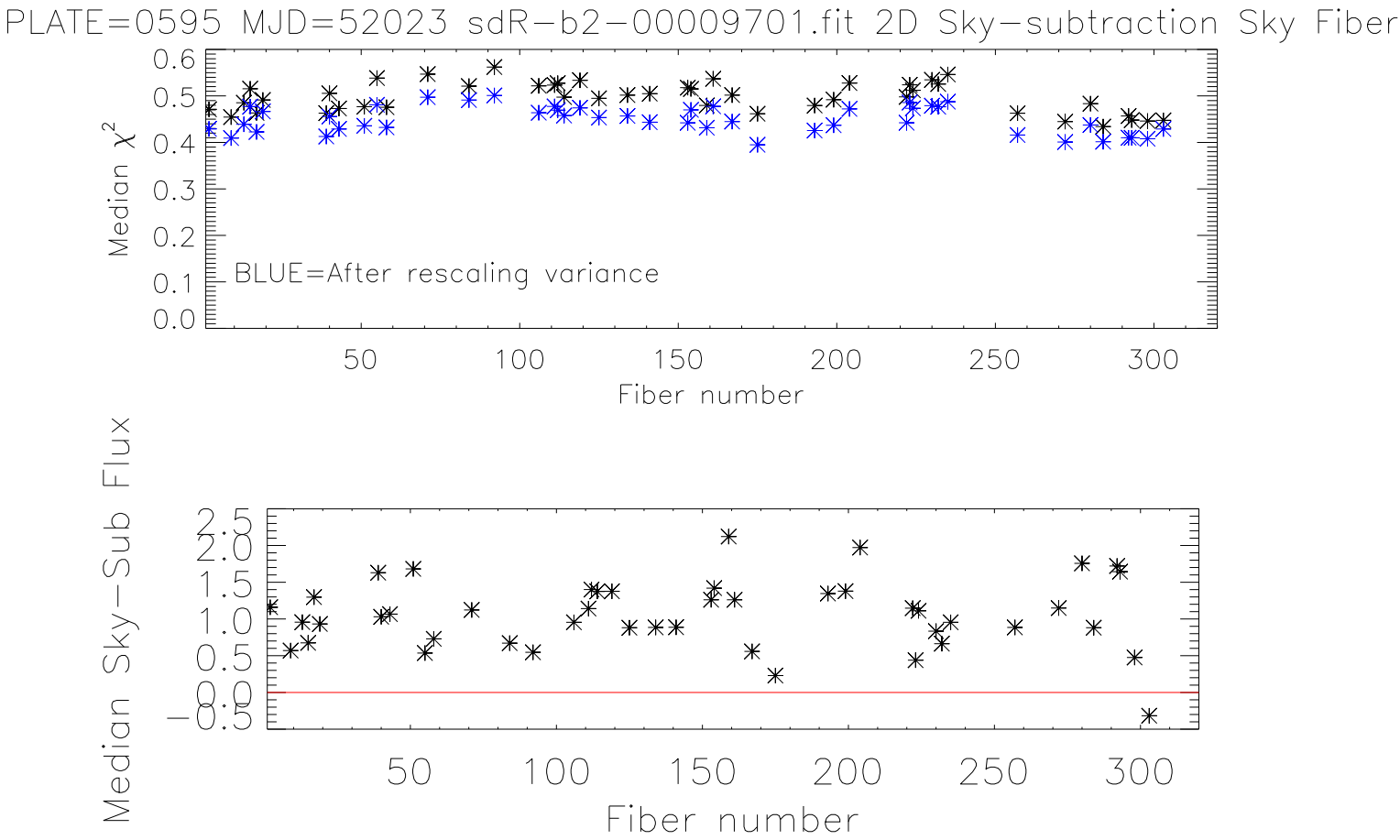
es= −0.0000

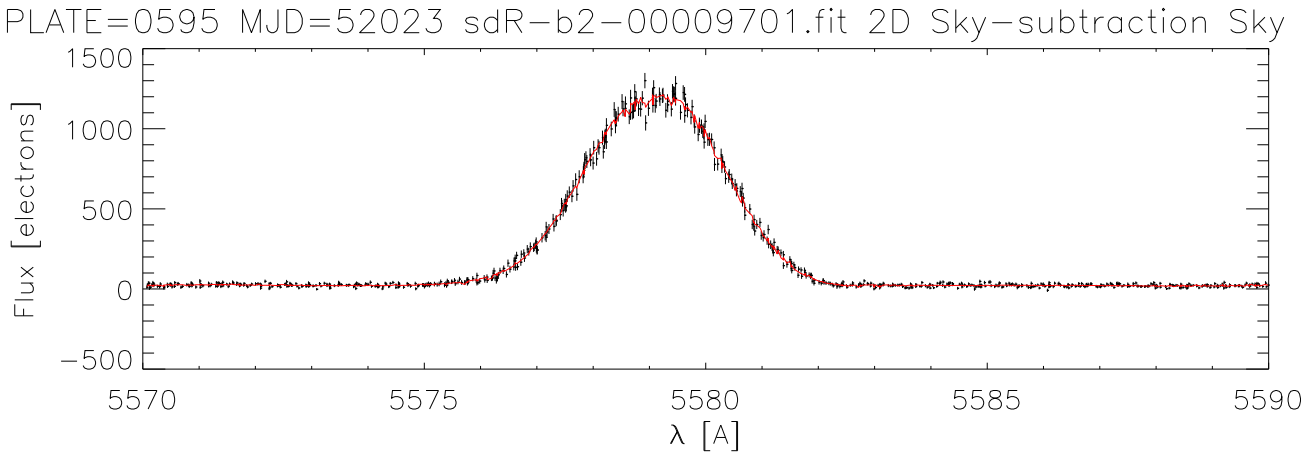

PLATE=0595 MJD=52023 sdR-b2-00009701.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

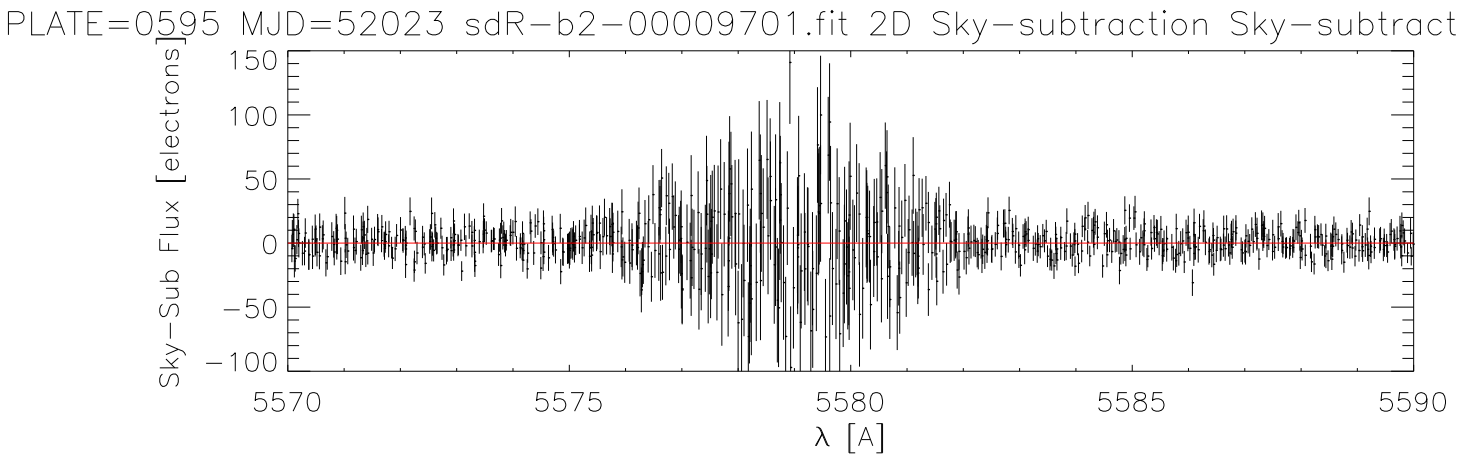

PLATE=0595 MJD=52023 sdR-b2-00009701.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

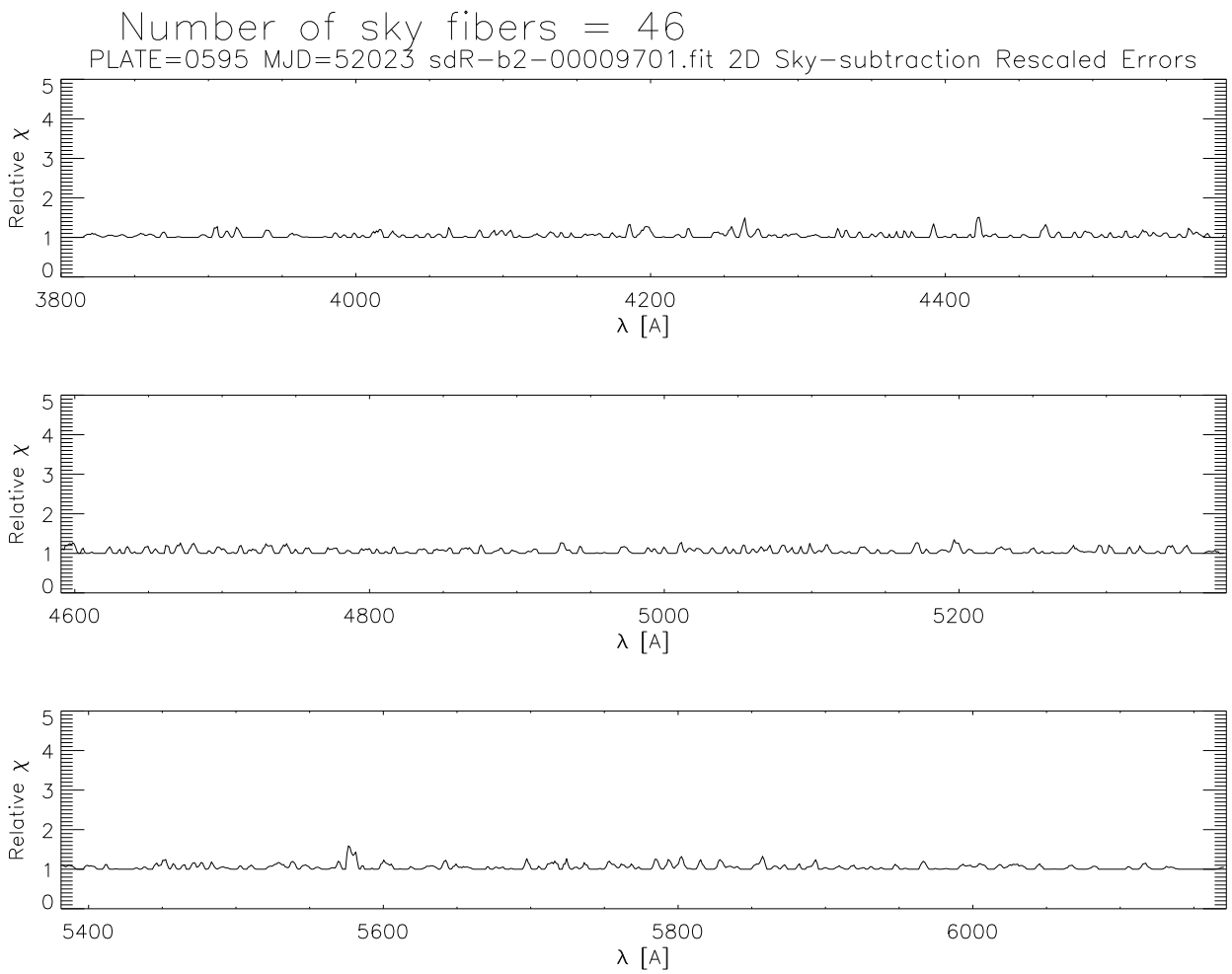

PLATE=0595 MJD=52023 sdR-b2-00009701.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

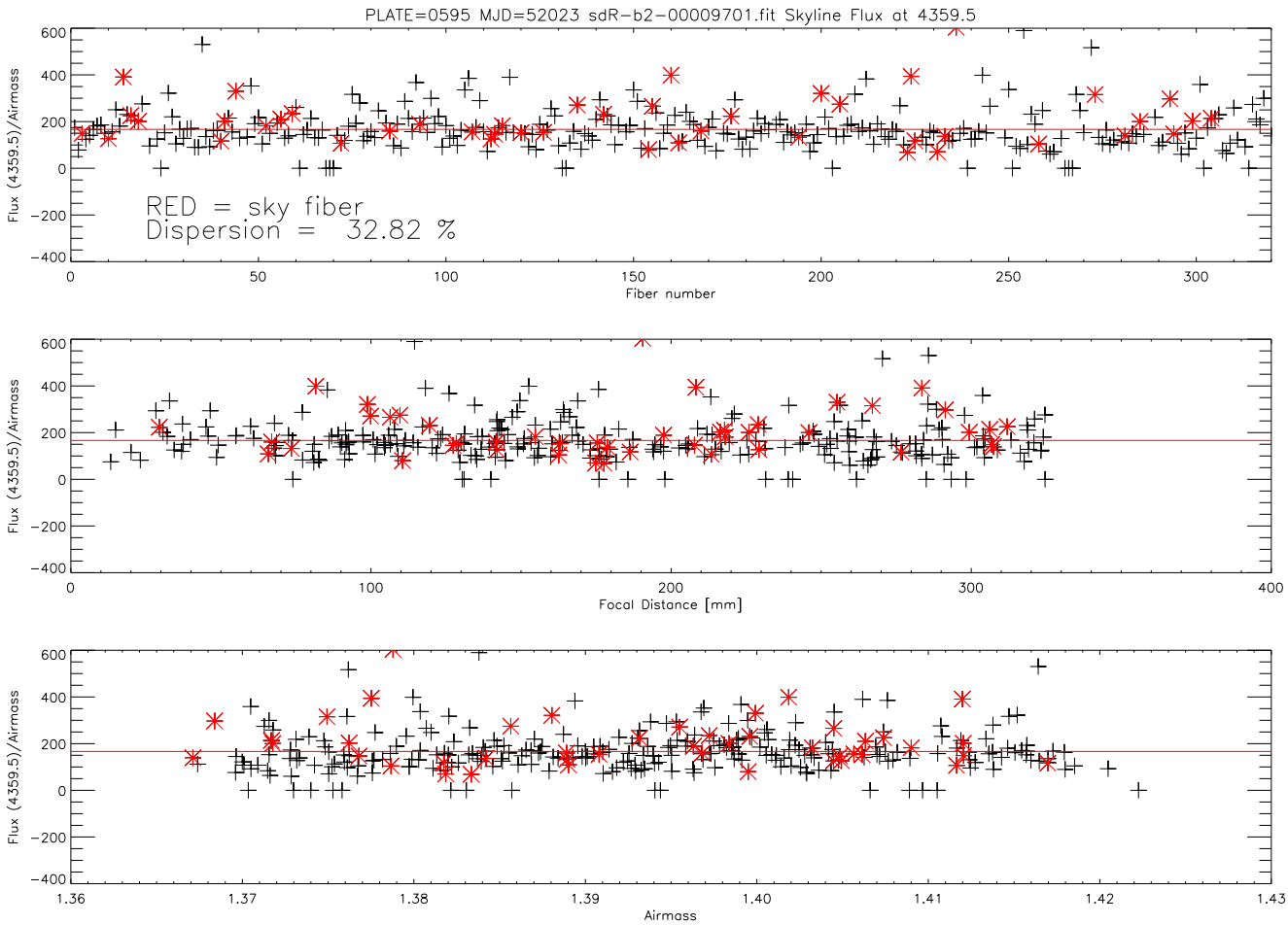

Number of sky fibers = 46
PLATE=0595 MJD=52023 sdR-b2-00009701.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

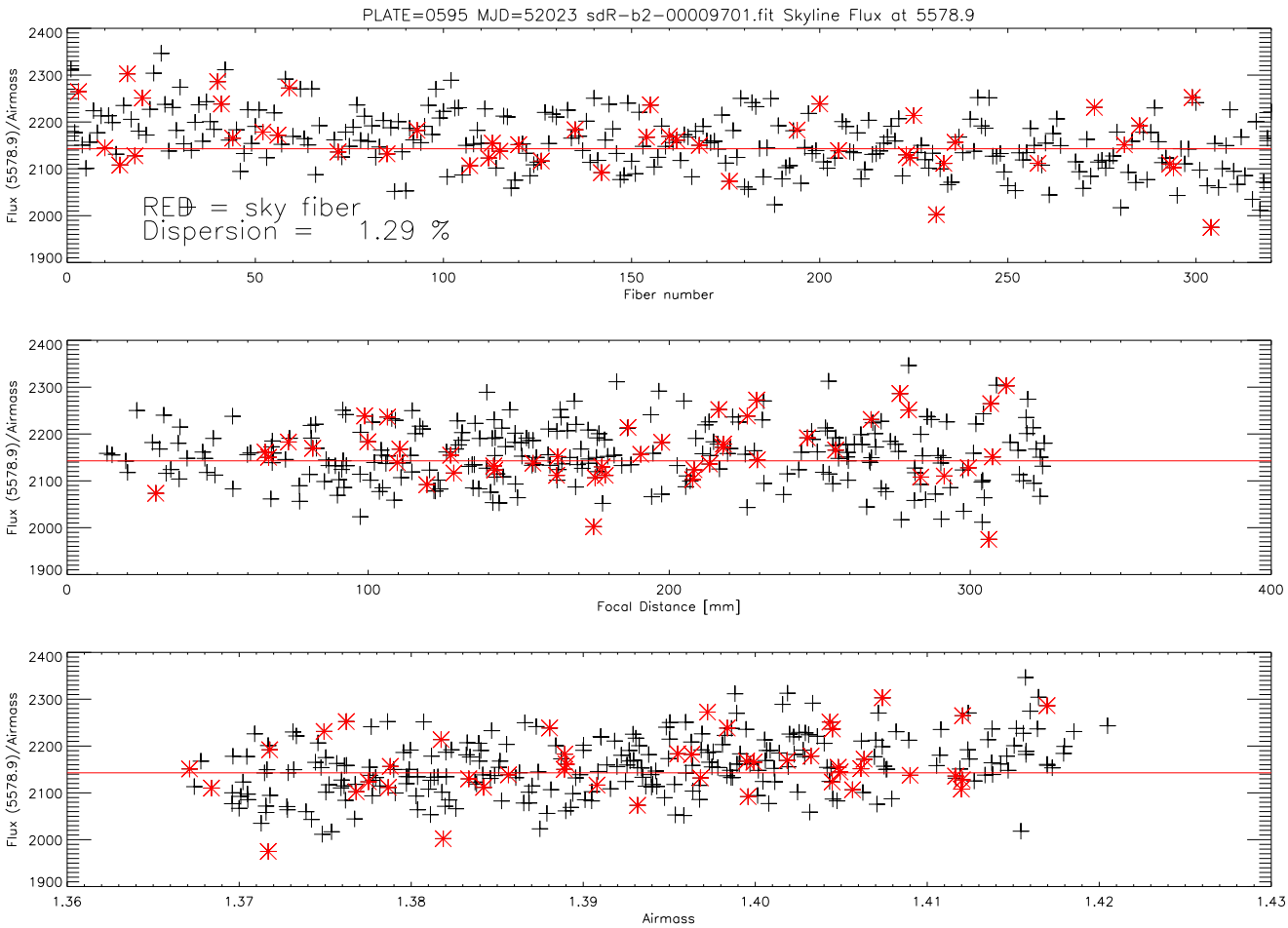

PLATE=0595 MJD=52023 sdR-b2-00009701.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

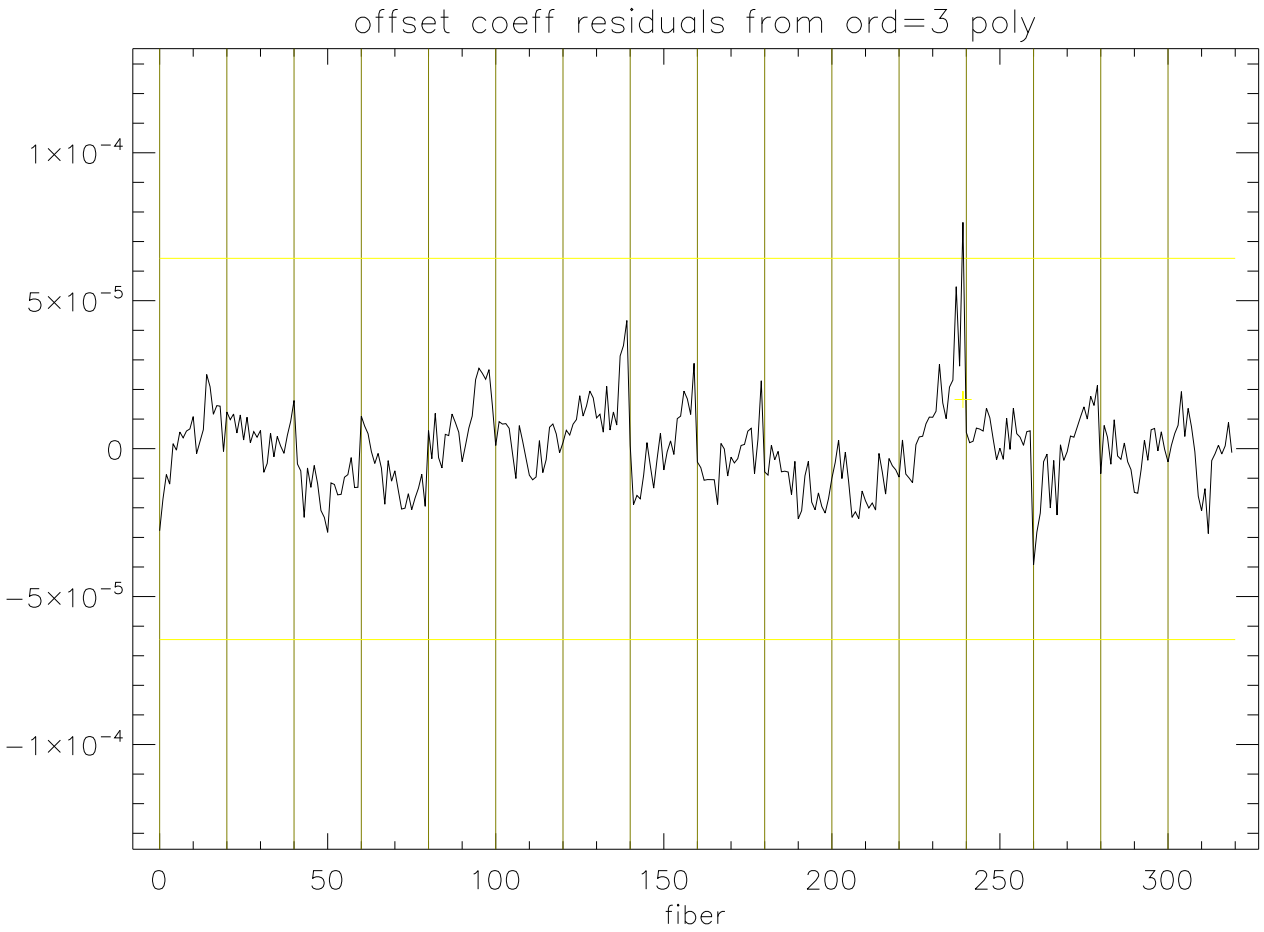

PLATE=0595 MJD=52023 sdR-b2-00009701.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

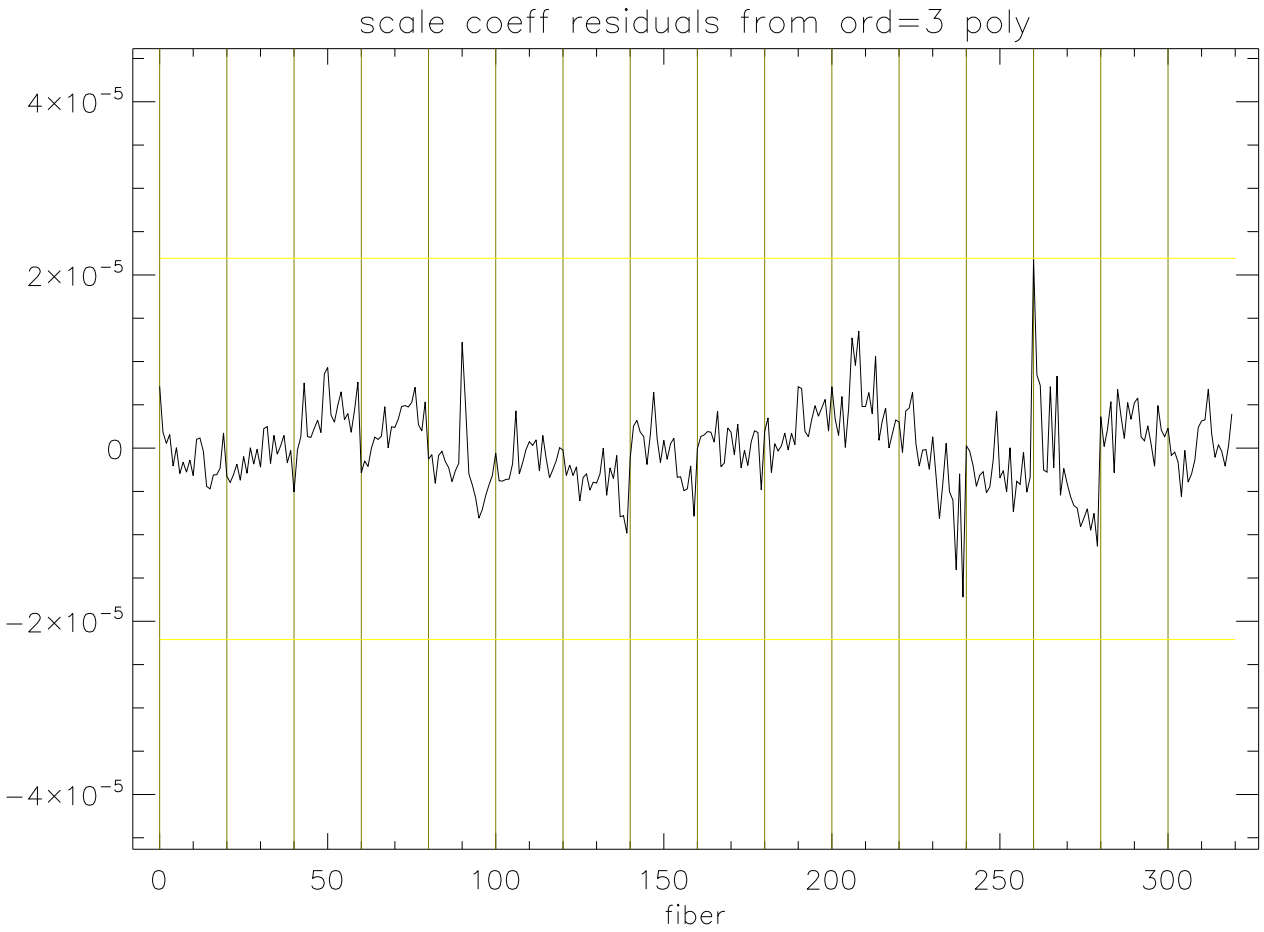

PLATE=0595 MJD=52023 sdR-b2-00009701.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

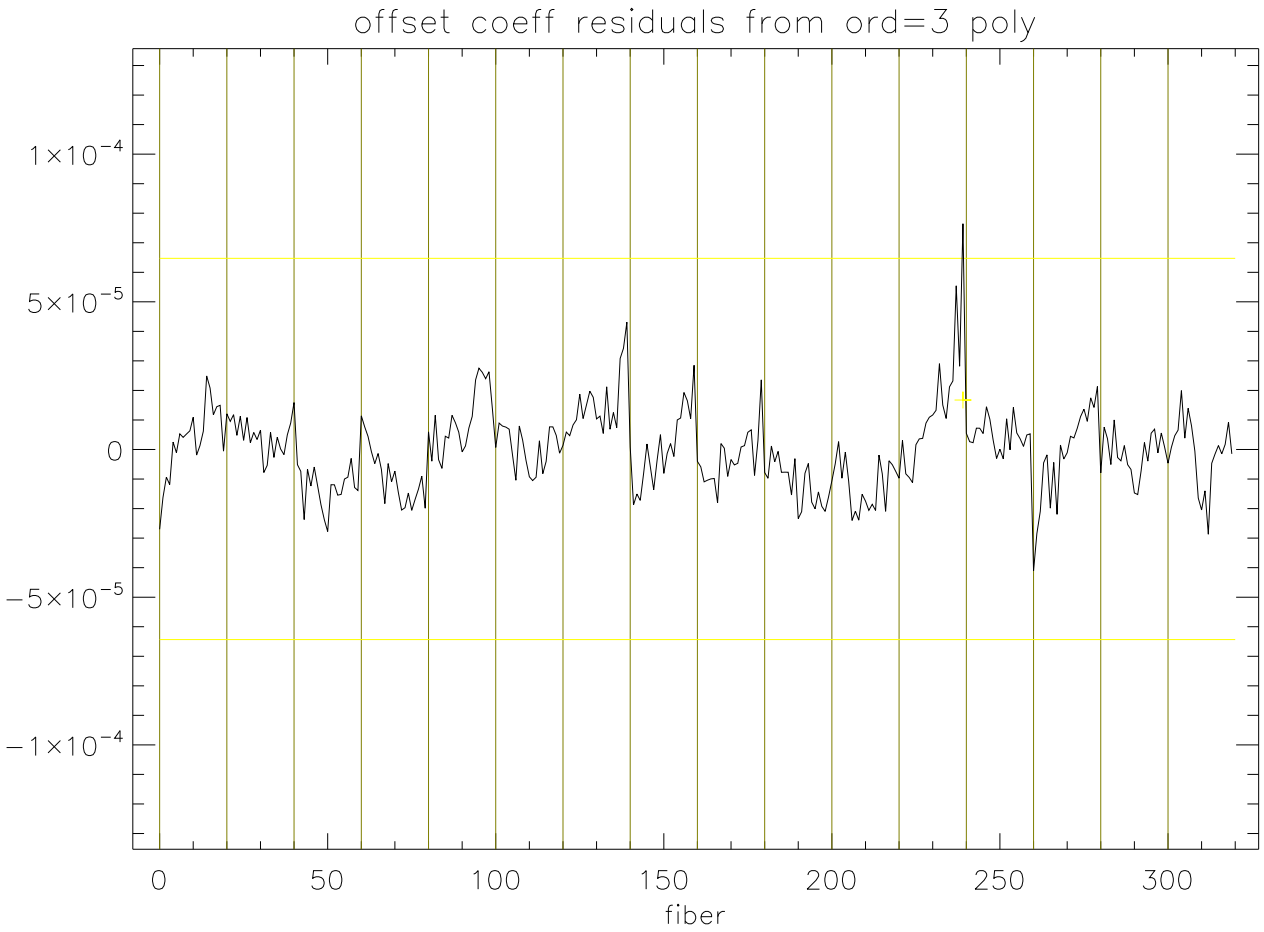

Number of sky fibers = 46
PLATE=0595 MJD=52023 sdR-b2-00009701.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

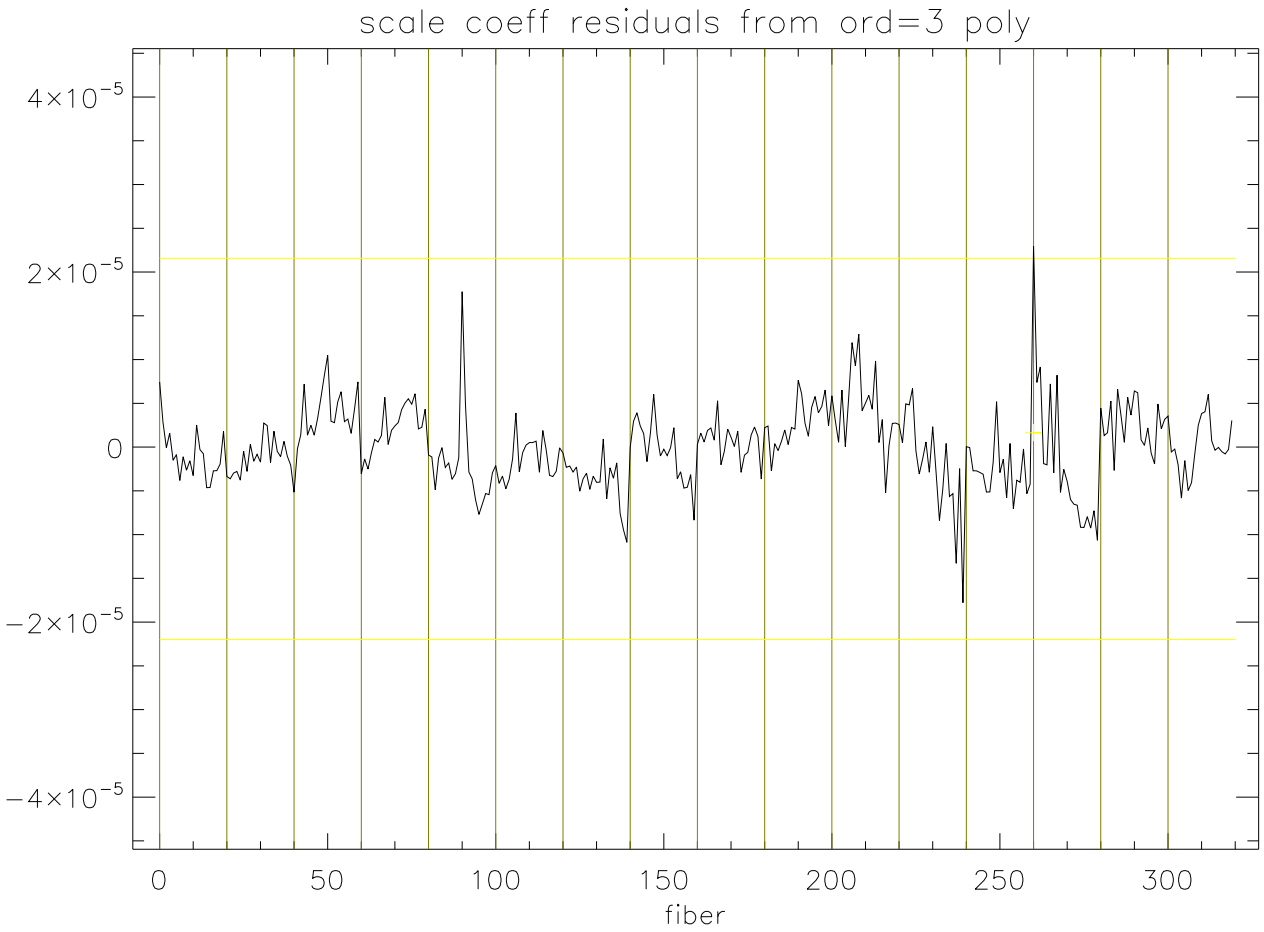

PLATE=0595 MJD=52023 sdR-b2-00009701.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 32.82 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

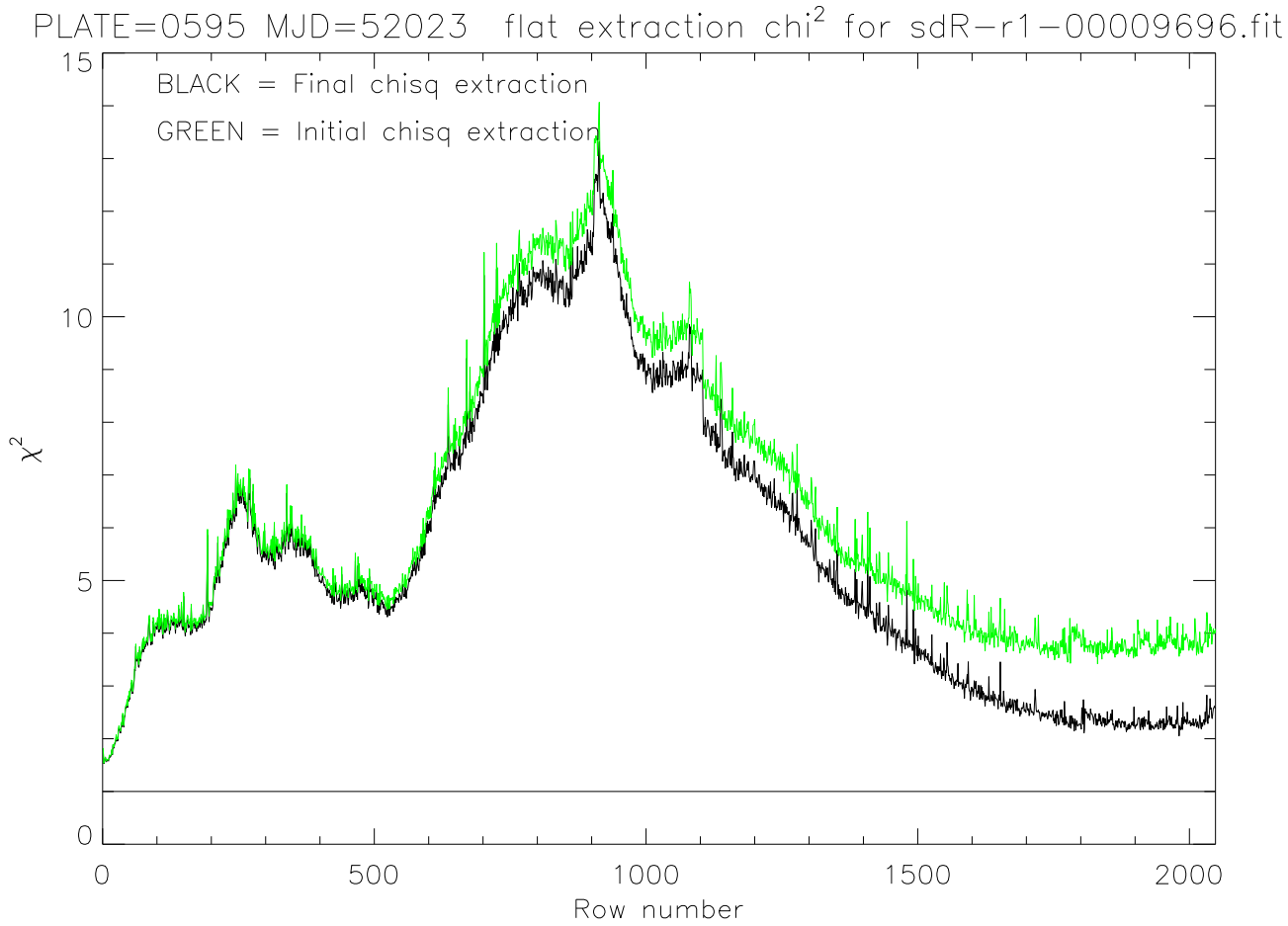

PLATE=0595 MJD=52023 sdR-b2-00009701.fit Skyline Flux at 5578.9
RED = sky fiber
Dispersion = 1.29 %
Flux (5578.9)/Airmass
Fiber number
Focal Distance [mm]
Airmass

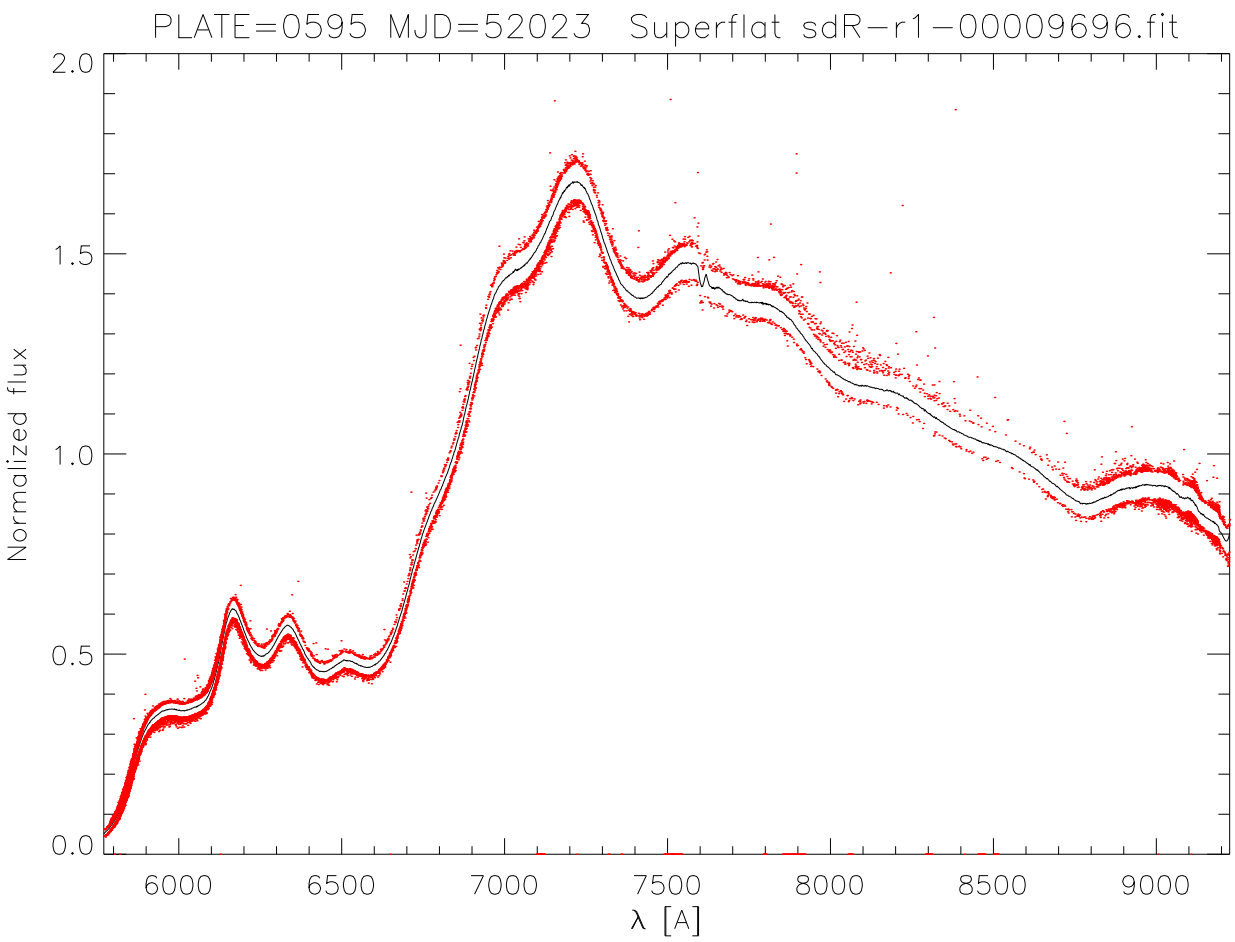

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

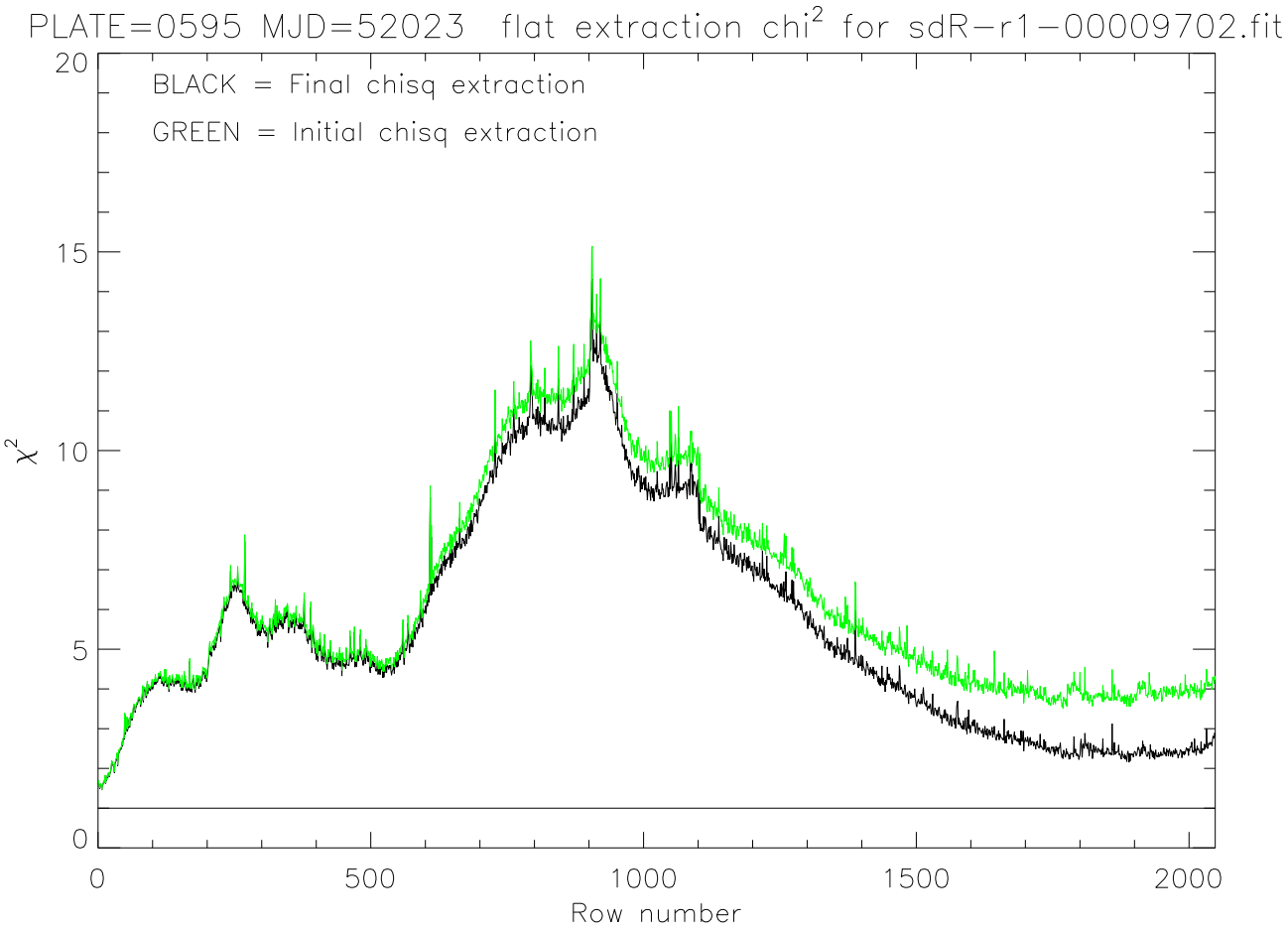

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

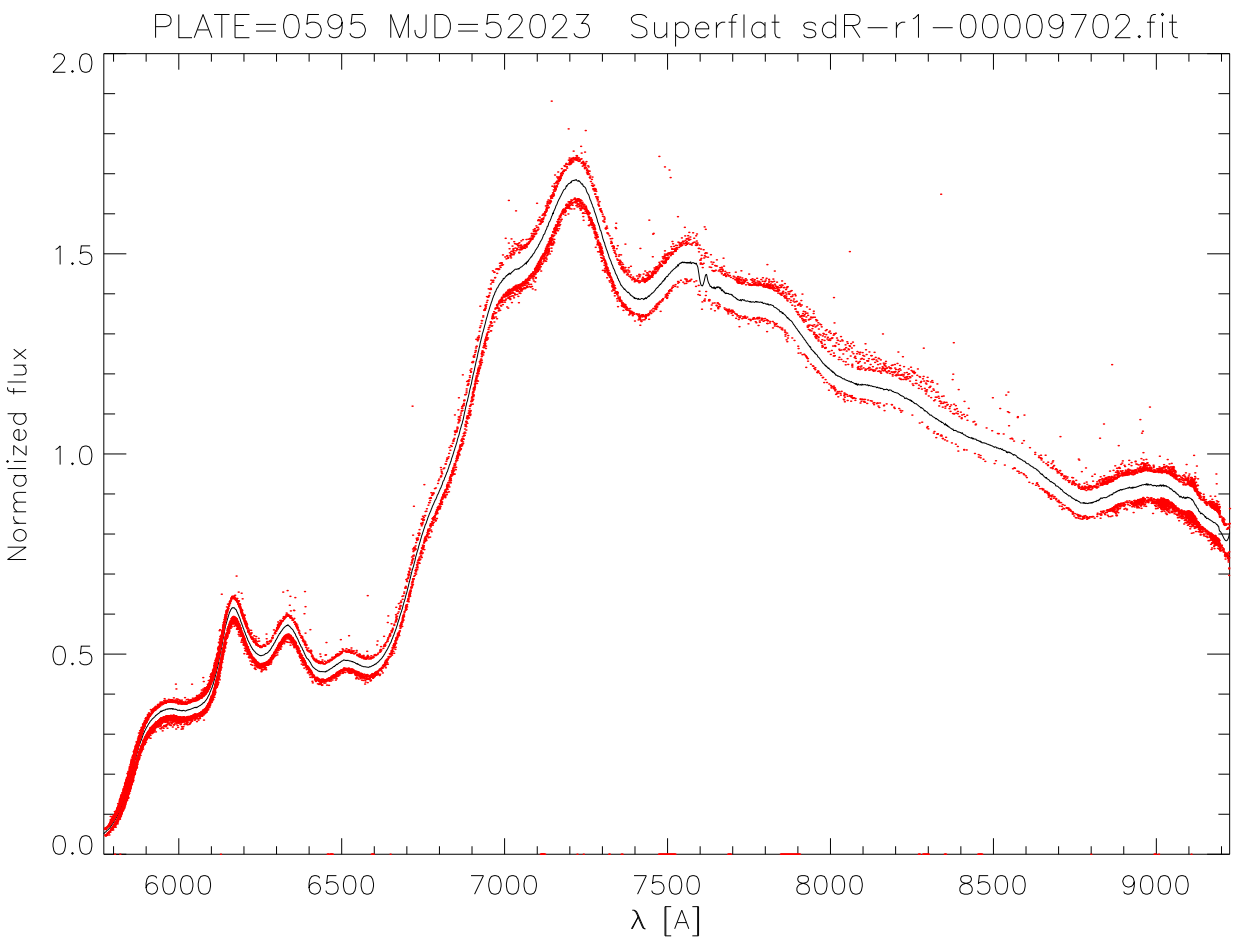

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

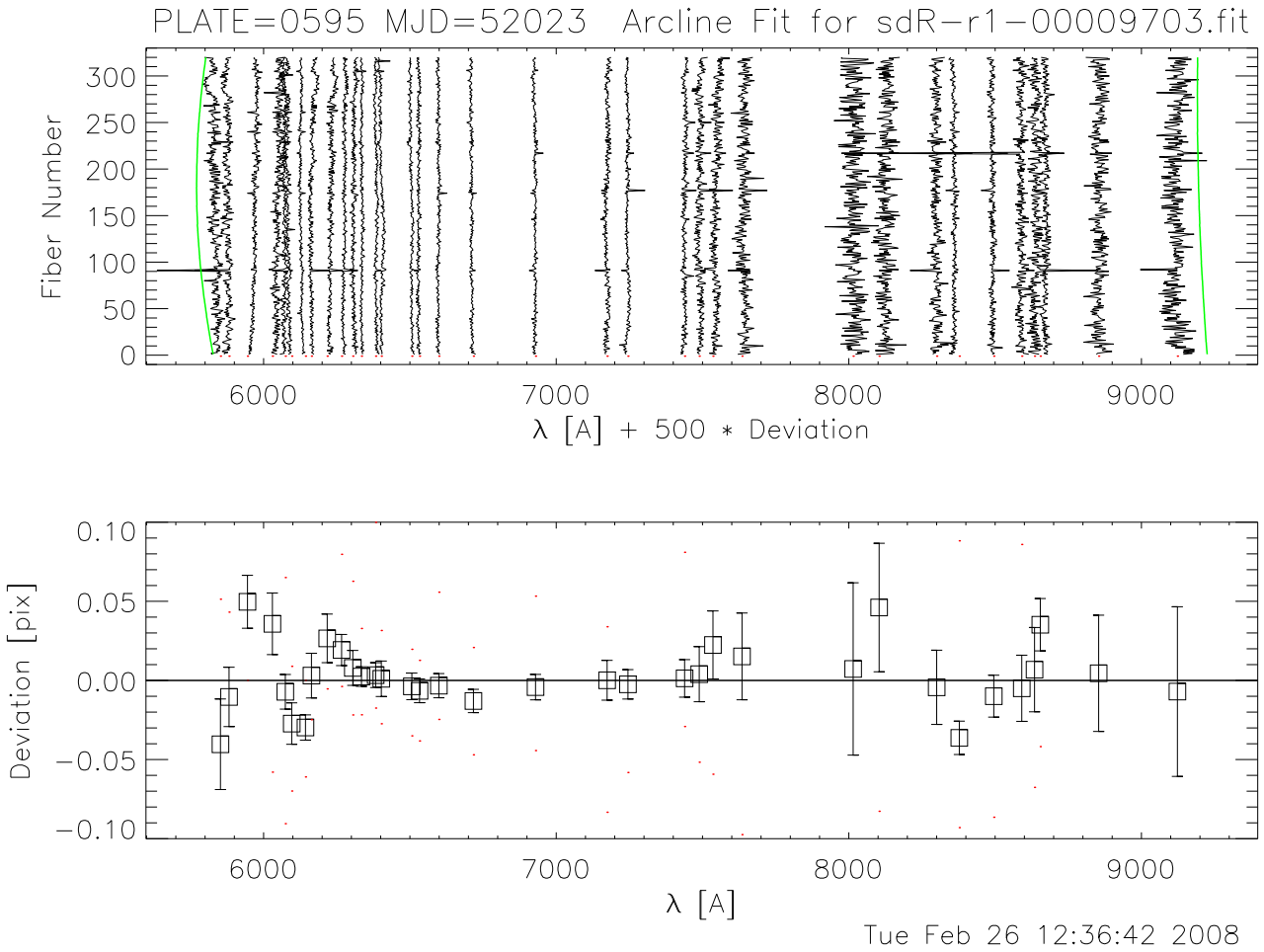

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

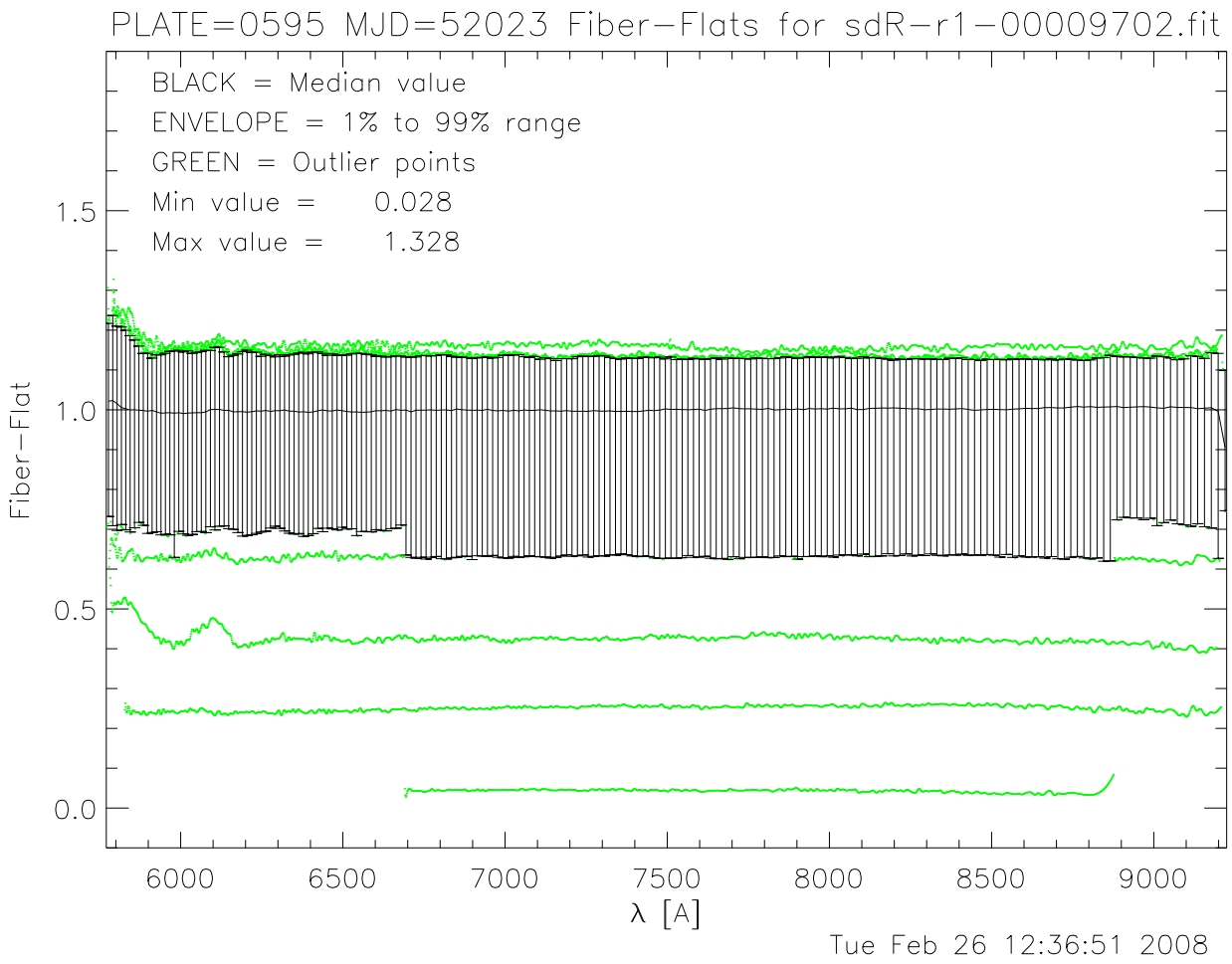

PLATE=0595 MJD=52023 flat extraction chi^2 for sdR−r1−00009696.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

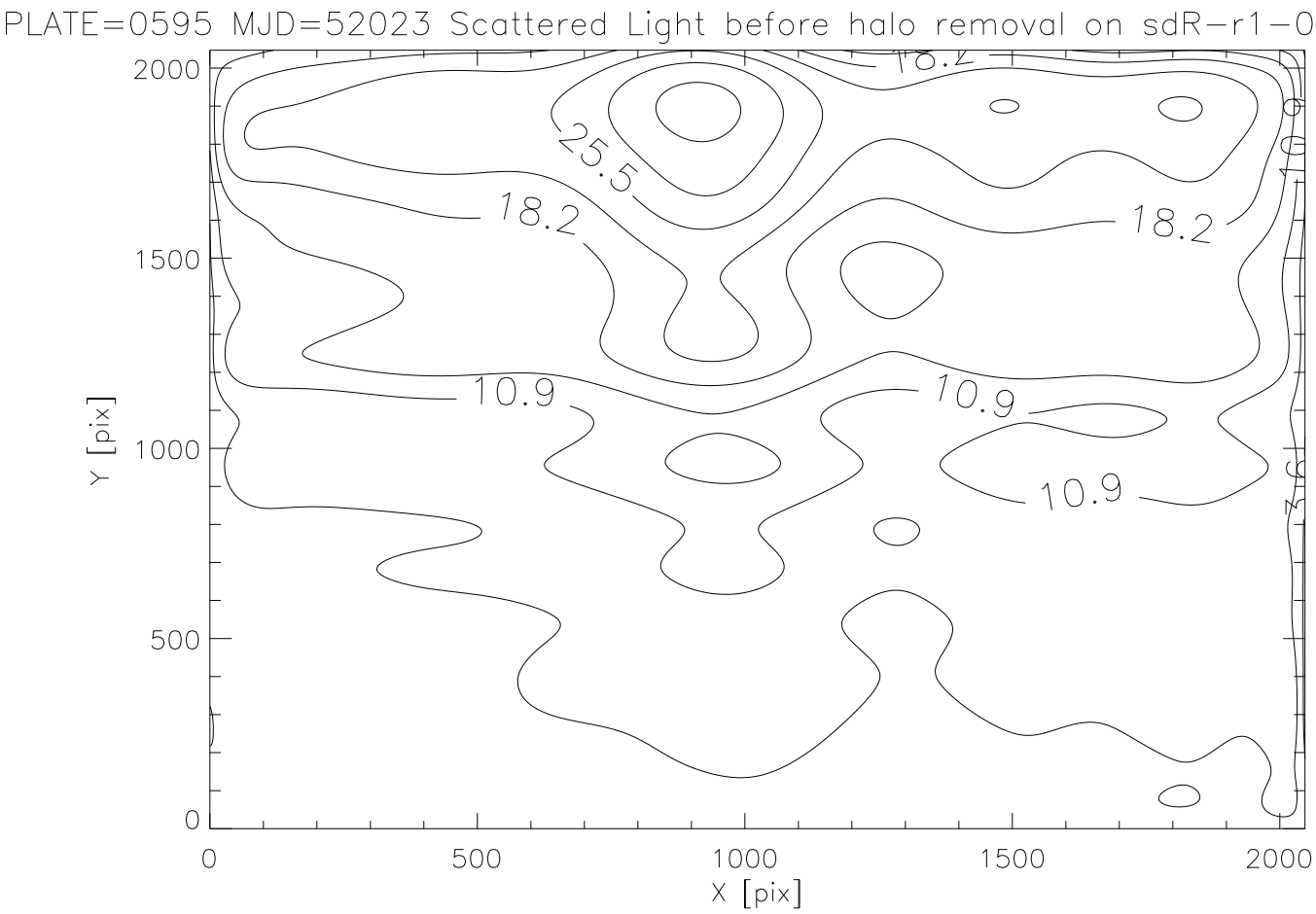

PLATE=0595 MJD=52023 Superflat sdR-r1-00009696.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

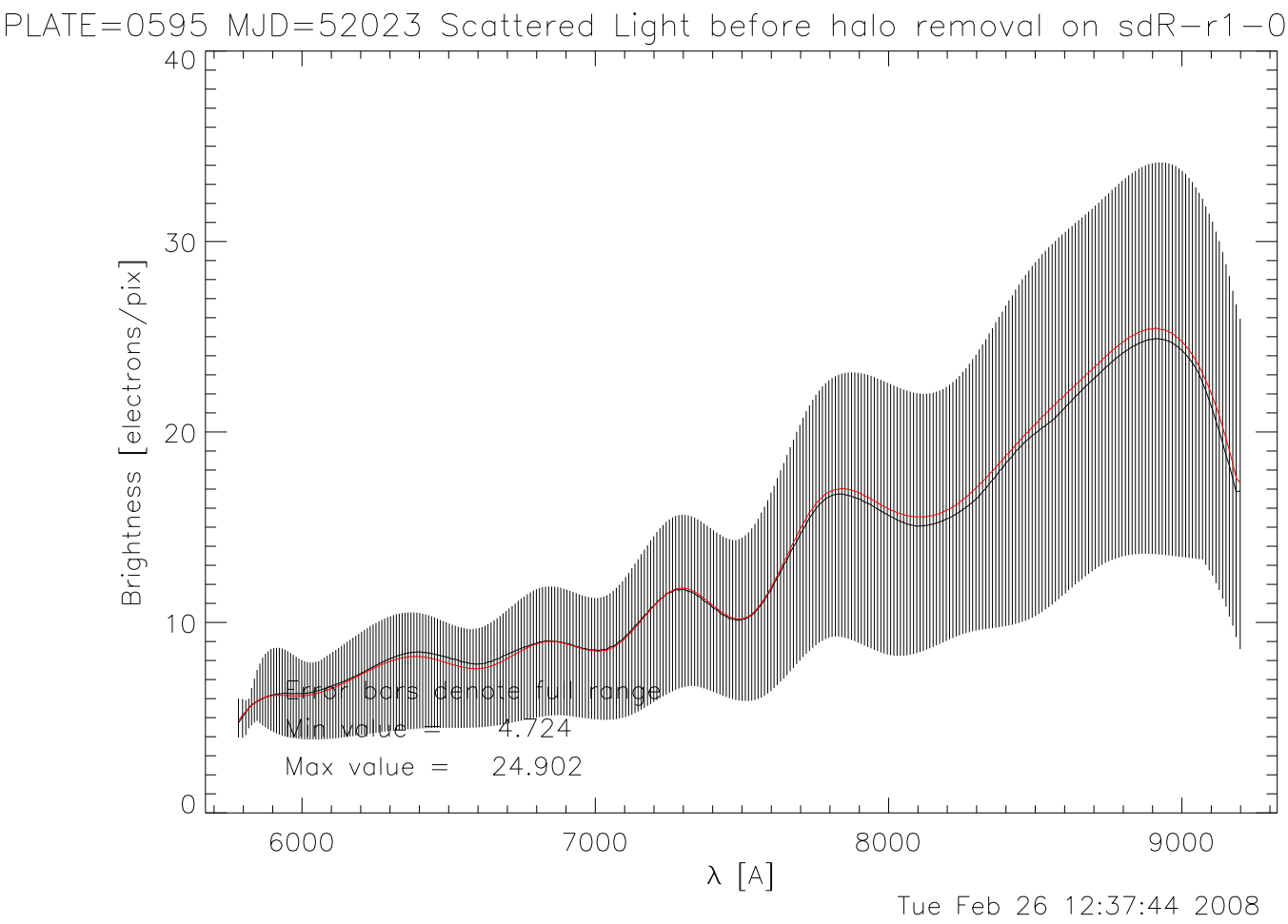

PLATE=0595 MJD=52023 flat extraction chi^2 for sdR−r1−00009702.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

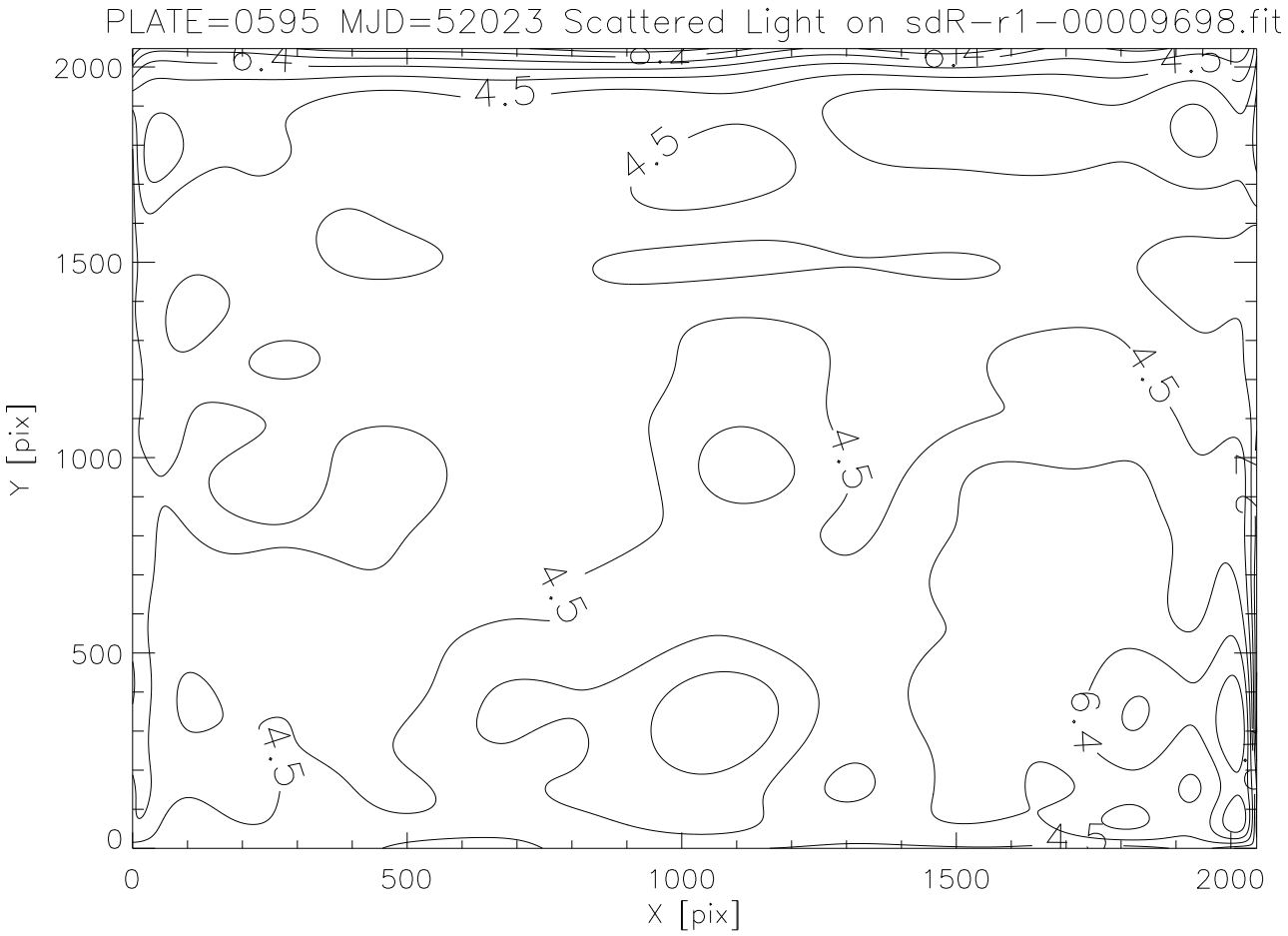

PLATE=0595 MJD=52023 Superflat sdR-r1-00009702.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

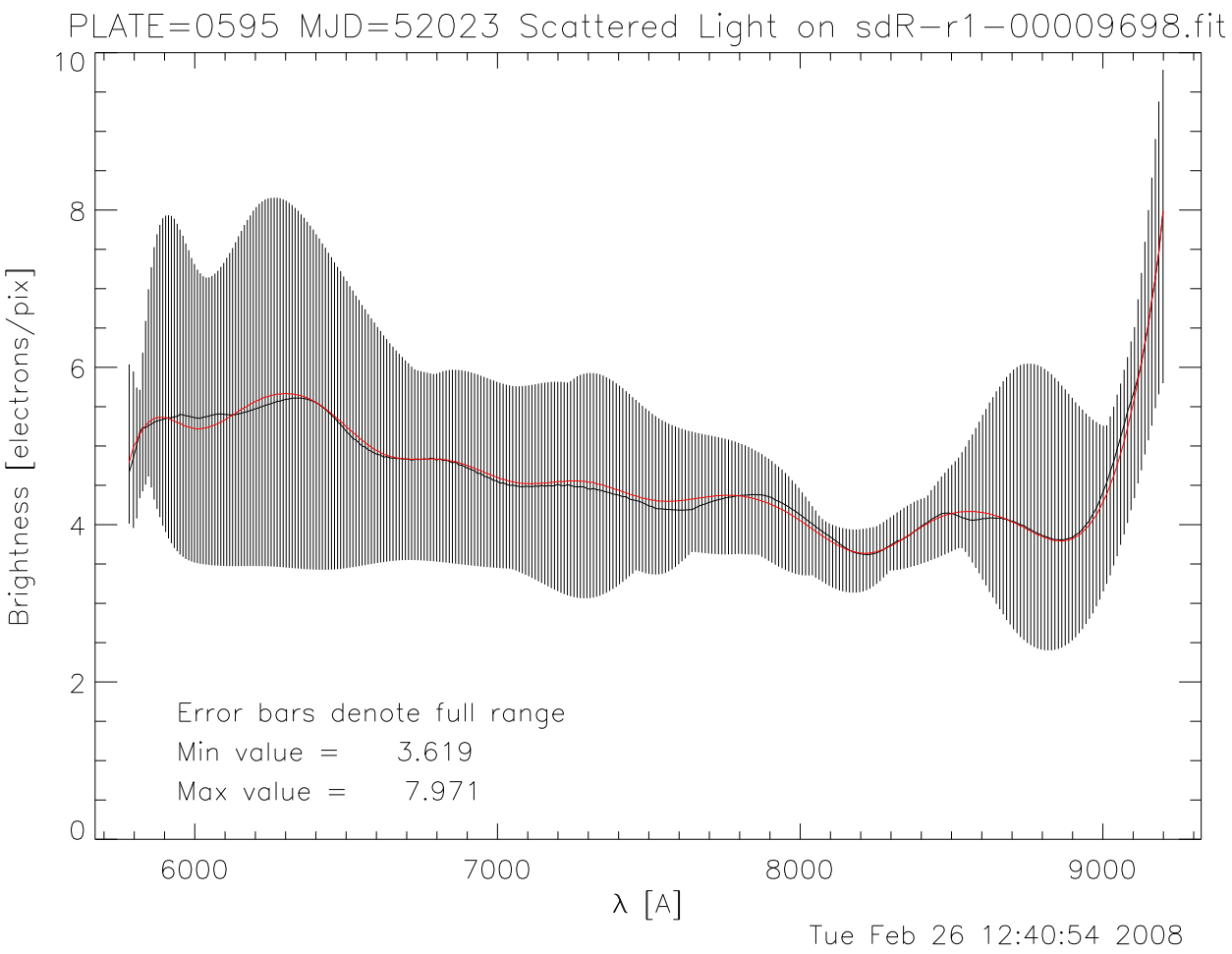

PLATE=0595 MJD=52023 Arcline Fit for sdR-r1-00009703.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Tue Feb 26 12:36:42 2008

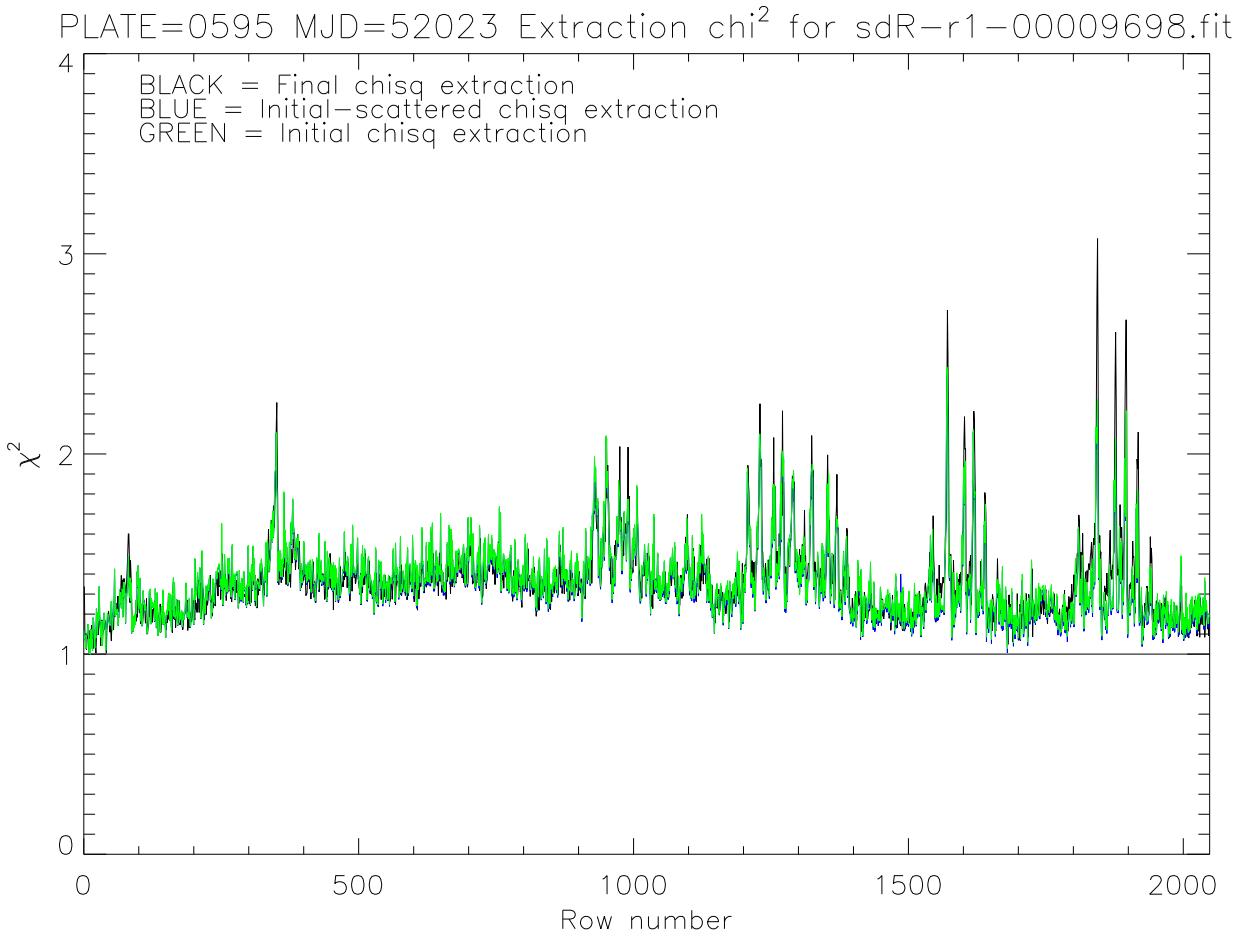

PLATE=0595 MJD=52023 Fiber−Flats for sdR−r1−00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.028
Max value = 1.328
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 12:36:51 2008

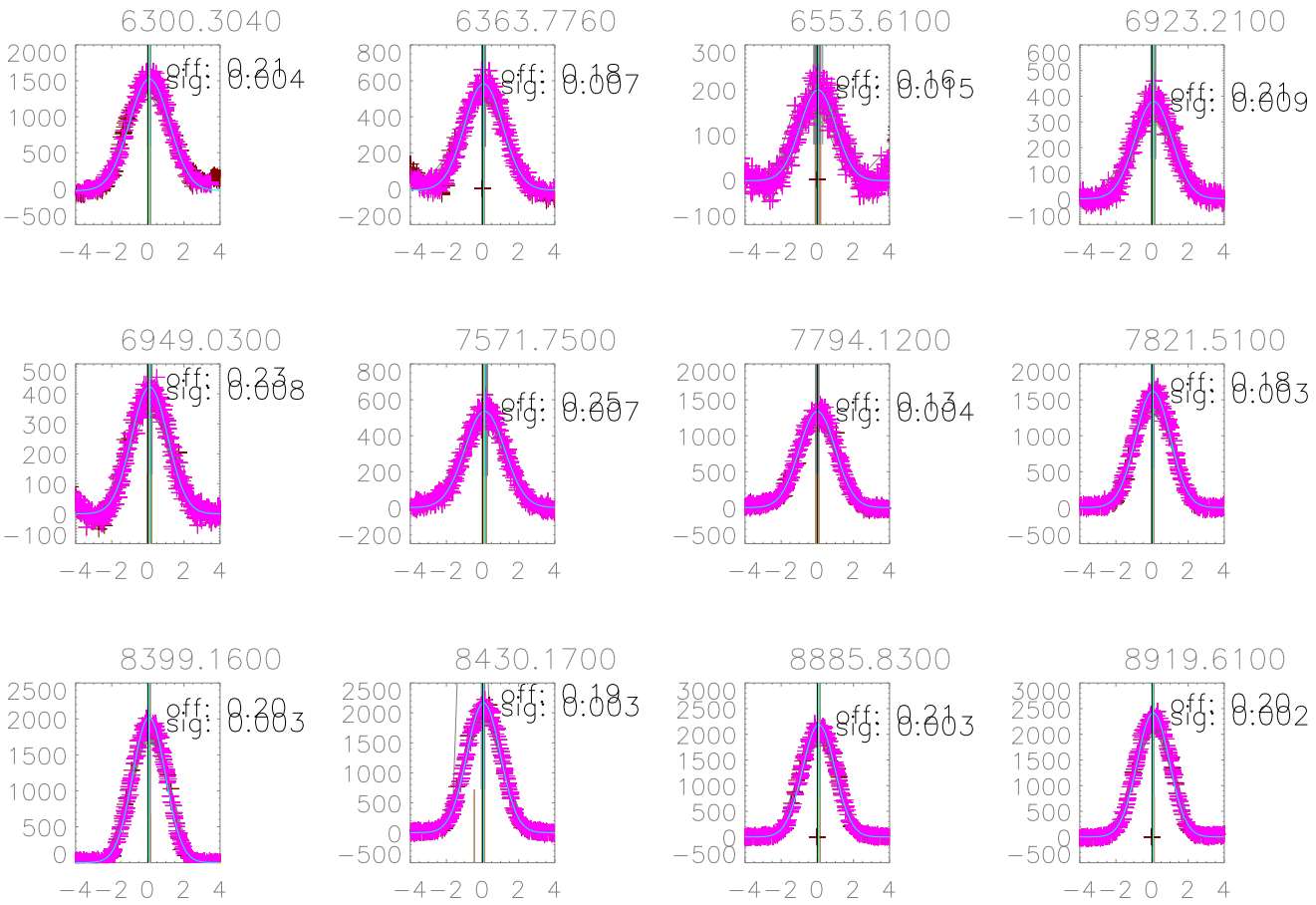

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-r1-00009698.fi
25.5
18.2
18.2
10.9
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

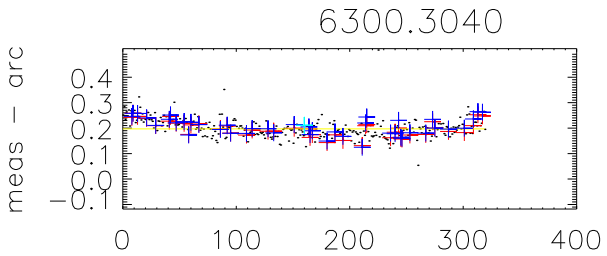

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-r1-00009698.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.724
Max value = 24.902
Tue Feb 26 12:37:44 2008

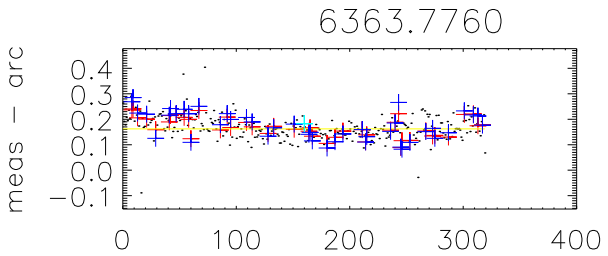

PLATE=0595 MJD=52023 Scattered Light on sdR-r1-00009698.fit
6.4
6.4
6.4
4.5
4.5
4.5
4.5
4.5
4.5
6.4
4.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

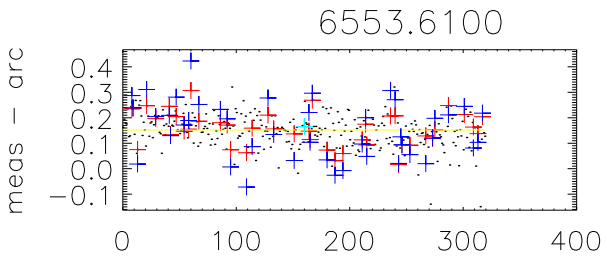

PLATE=0595 MJD=52023 Scattered Light on sdR-r1-00009698.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.619
Max value = 7.971
Tue Feb 26 12:40:54 2008

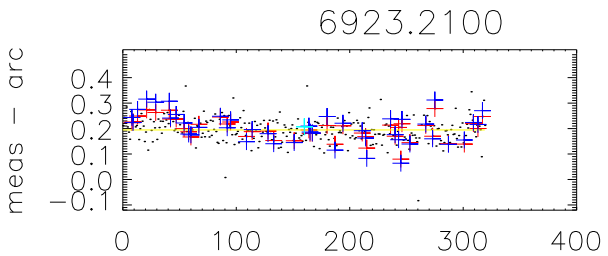

PLATE=0595 MJD=52023 Extraction chi^2 for sdR−r1−00009698.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

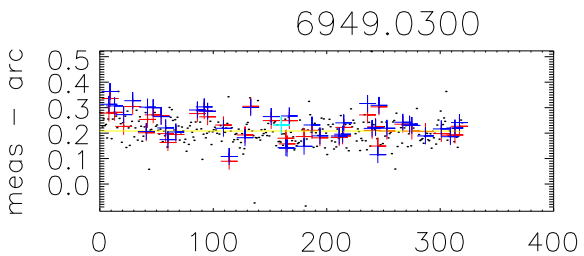

6300.3040
off: 0.21
sig: 0.004
6363.7760
off: 0.18
sig: 0.007
6553.6100
off: 0.16
sig: 0.015
6923.2100
off: 0.21
sig: 0.009
6949.0300
off: 0.23
sig: 0.008
7571.7500
off: 0.25
sig: 0.007
7794.1200
off: 0.13
sig: 0.004
7821.5100
off: 0.18
sig: 0.003
8399.1600
off: 0.20
sig: 0.003
8430.1700
off: 0.19
sig: 0.003
8885.8300
off: 0.21
sig: 0.003
8919.6100
off: 0.20
sig: 0.002

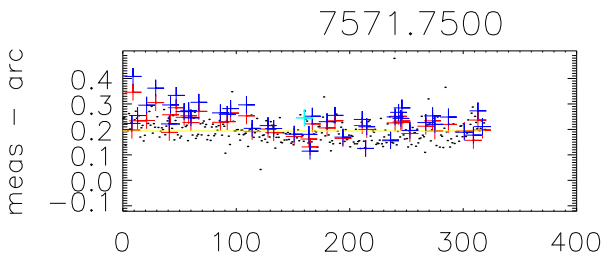

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

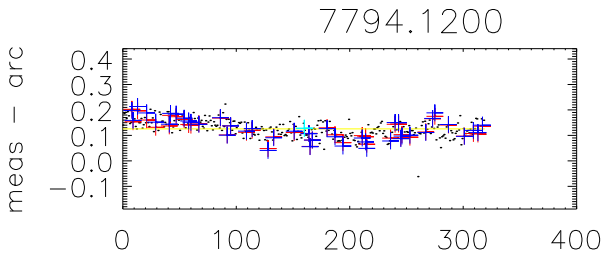

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

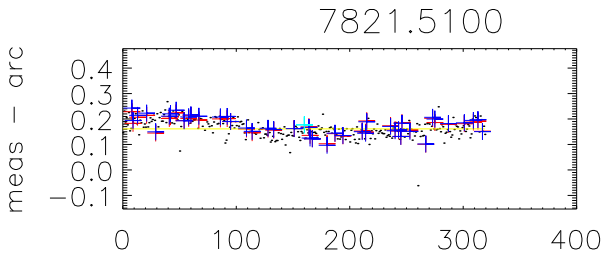

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

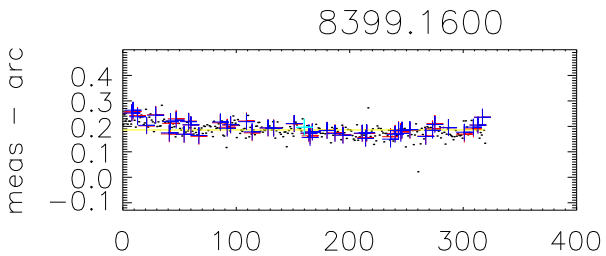

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

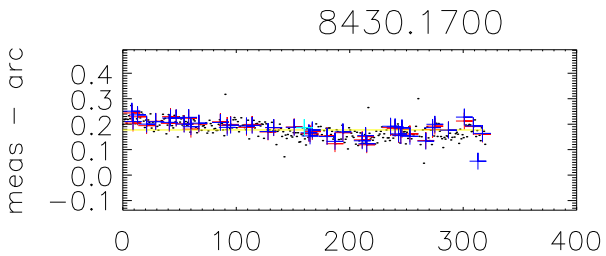

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

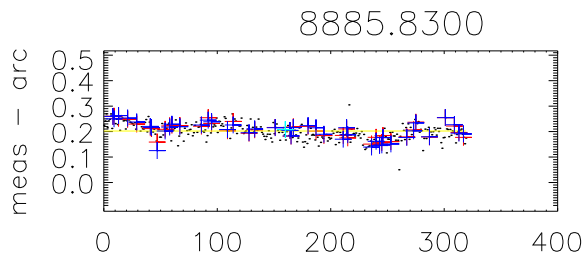

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

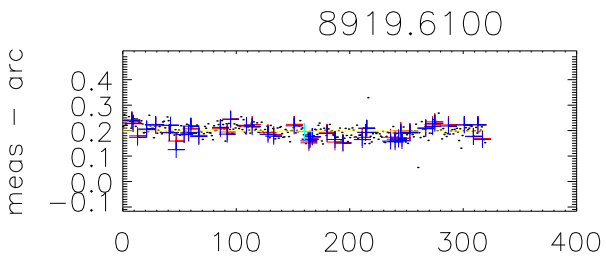

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

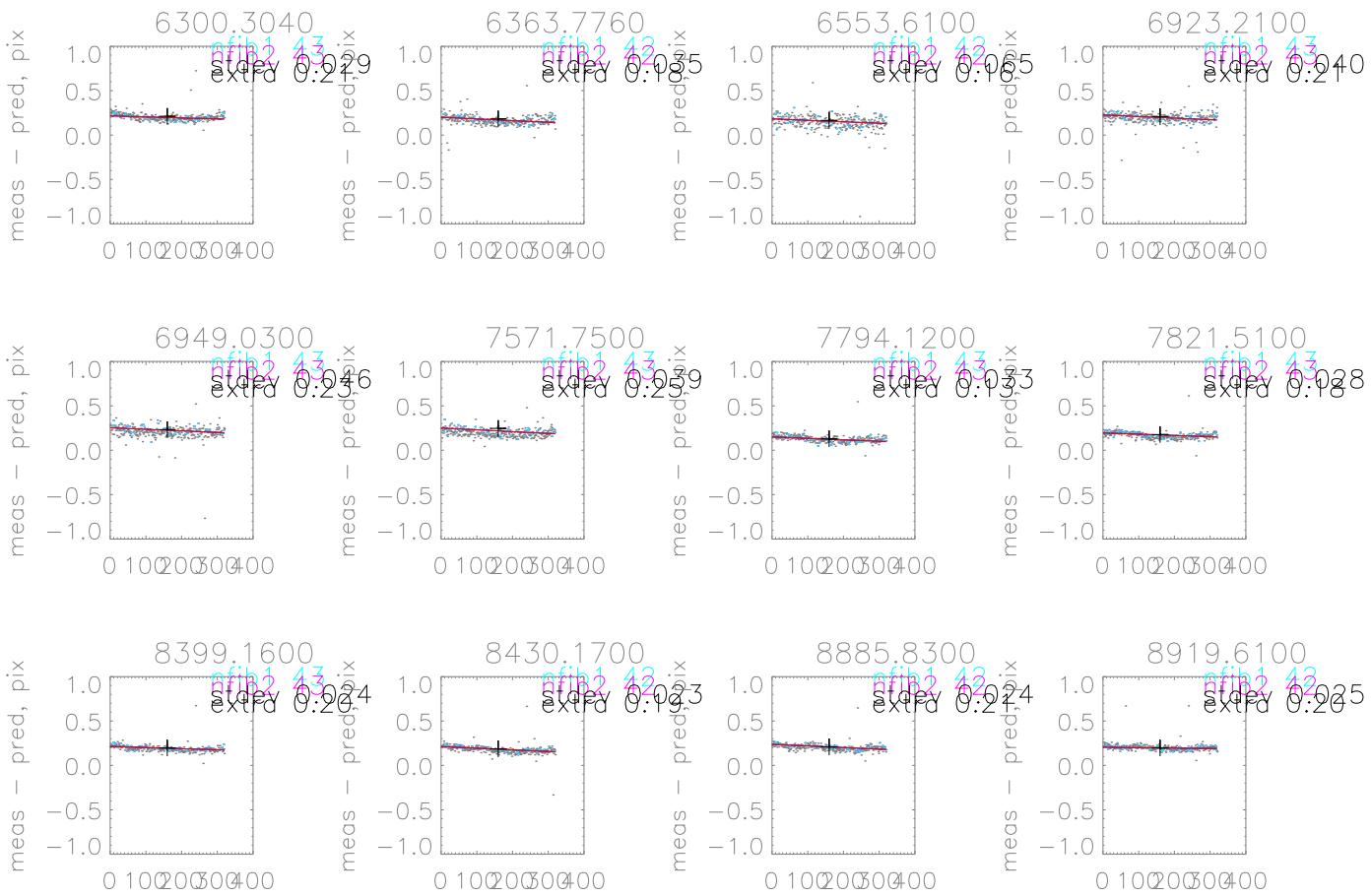

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

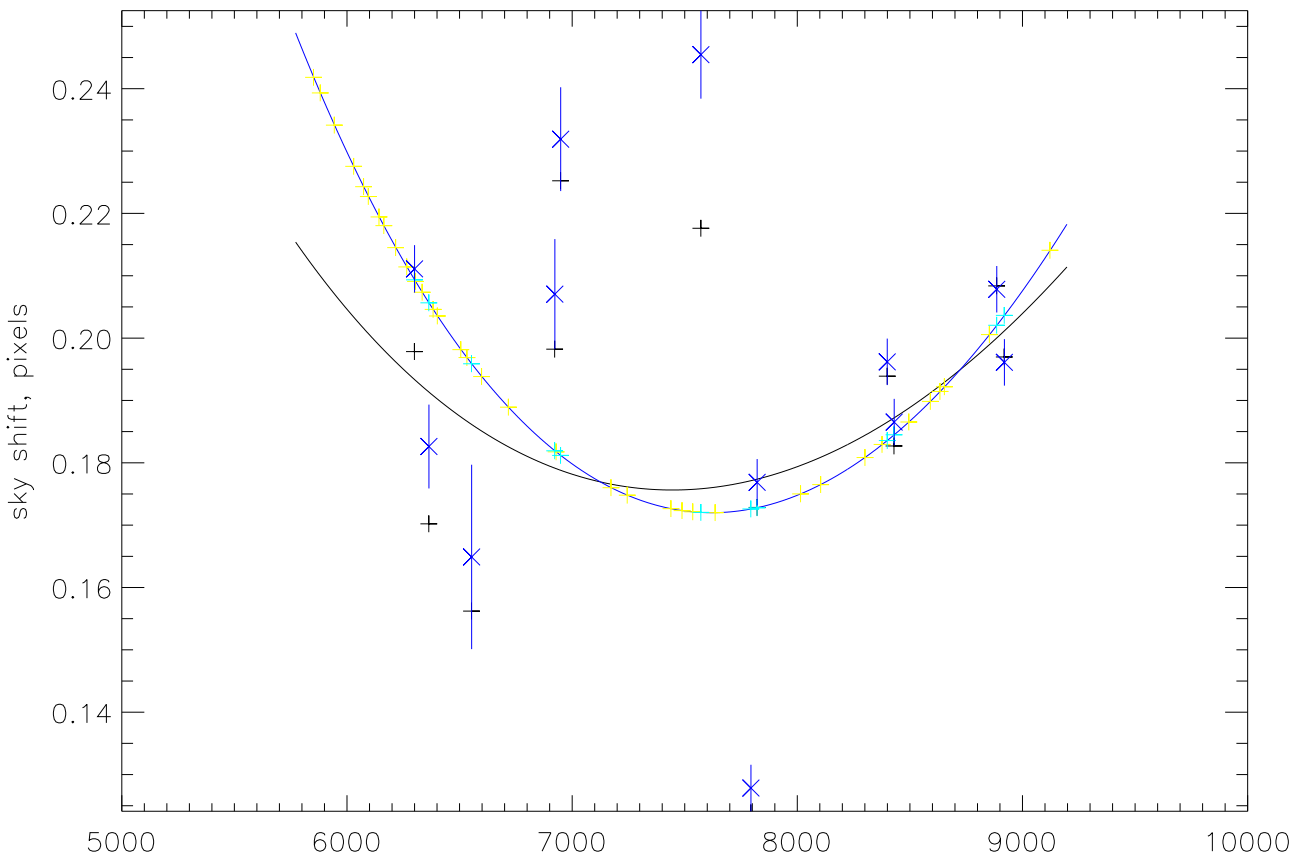

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

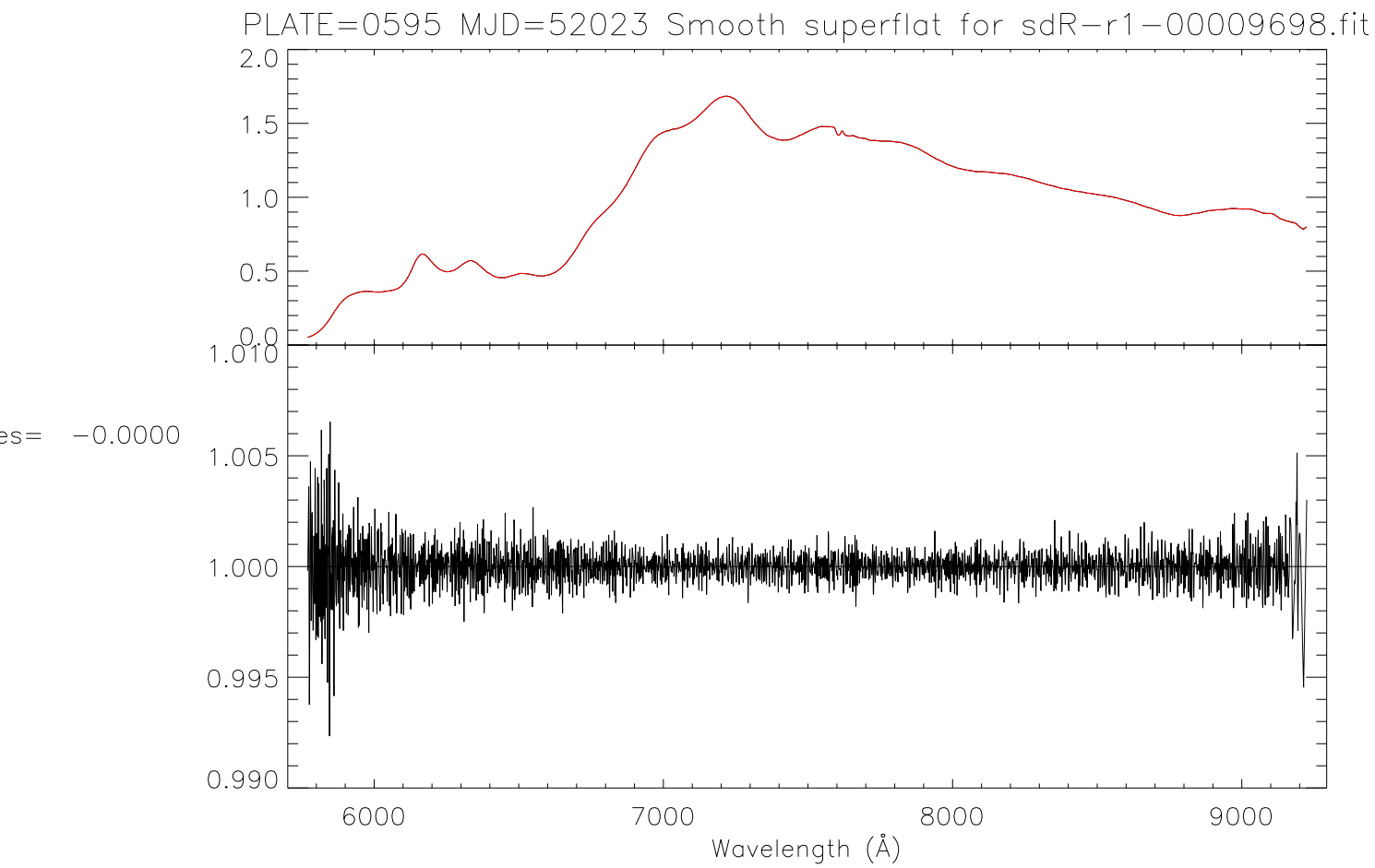

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

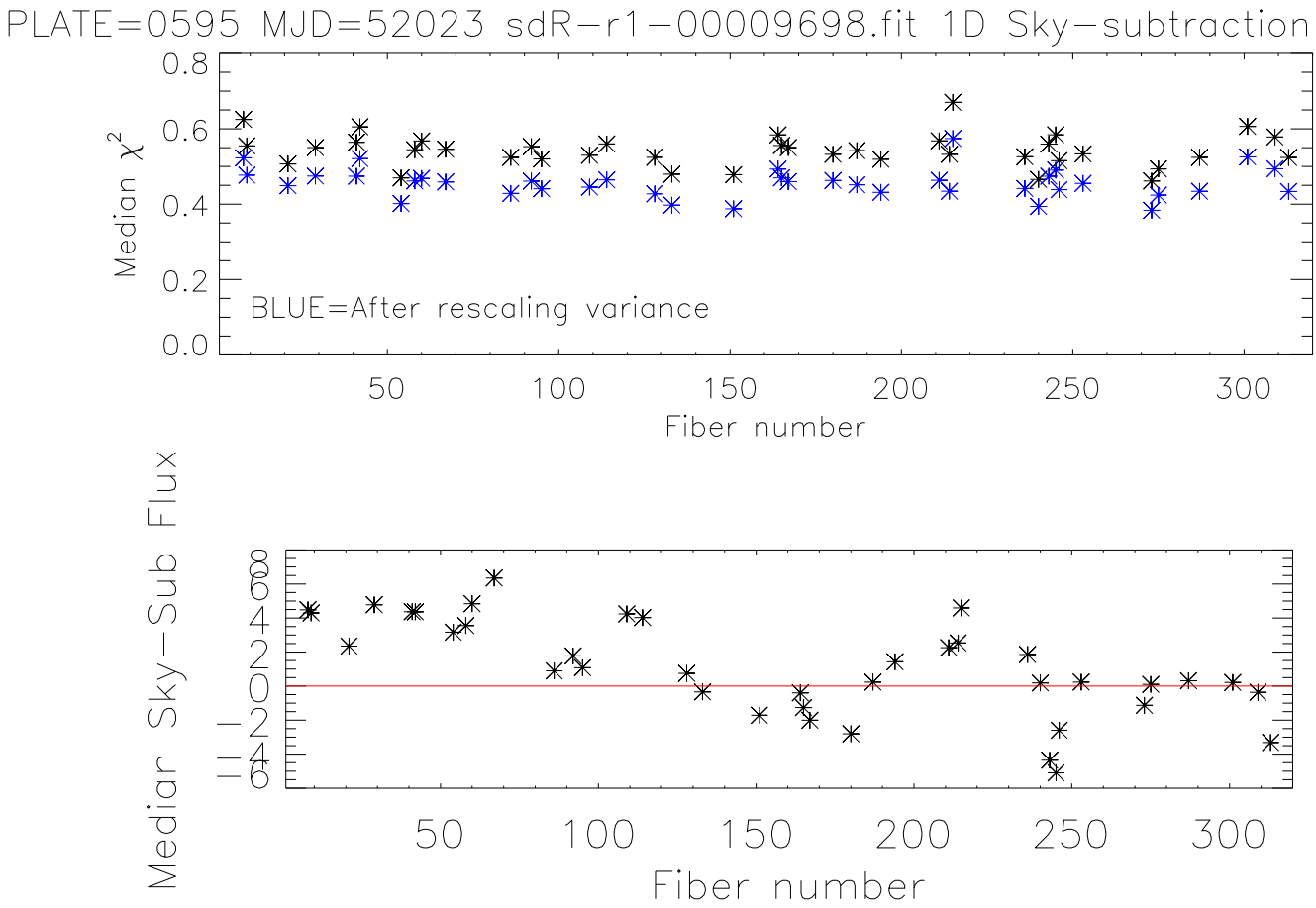

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

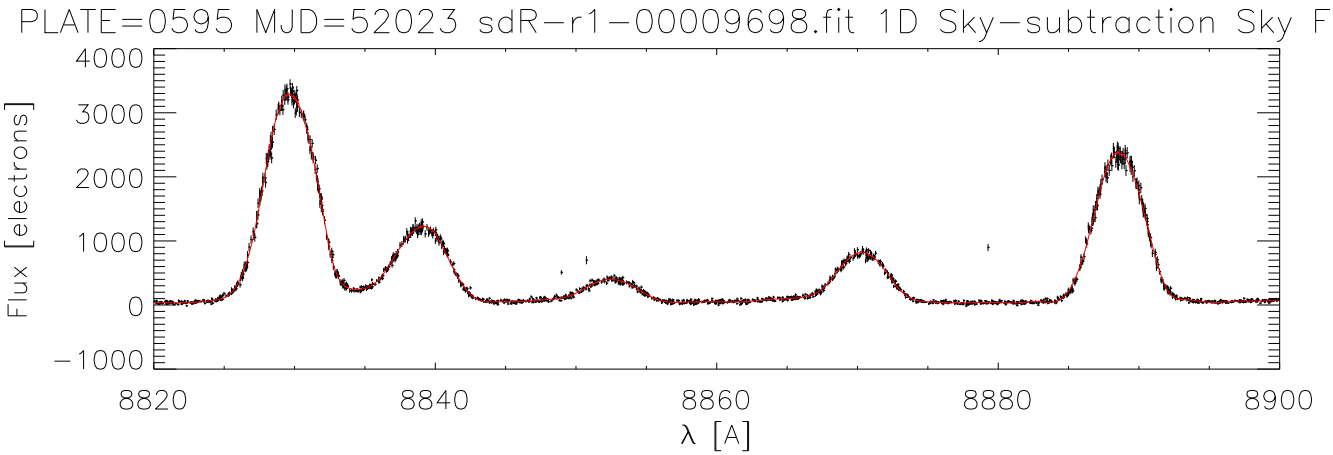

6300.3040
mfib1 43
mfib2 43
stdev 0.029
extra 0.21
6363.7760
mfib1 42
mfib2 42
stdev 0.035
extra 0.18
6553.6100
mfib1 42
mfib2 42
stdev 0.065
extra 0.16
6923.2100
mfib1 43
mfib2 43
stdev 0.040
extra 0.21
6949.0300
mfib1 43
mfib2 43
stdev 0.046
extra 0.23
7571.7500
mfib1 43
mfib2 43
stdev 0.039
extra 0.25
7794.1200
mfib1 43
mfib2 43
stdev 0.033
extra 0.13
7821.5100
mfib1 43
mfib2 43
stdev 0.028
extra 0.18
8399.1600
mfib1 43
mfib2 43
stdev 0.024
extra 0.20
8430.1700
mfib1 42
mfib2 42
stdev 0.023
extra 0.19
8885.8300
mfib1 42
mfib2 42
stdev 0.024
extra 0.21
8919.6100
mfib1 42
mfib2 42
stdev 0.025
extra 0.20
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

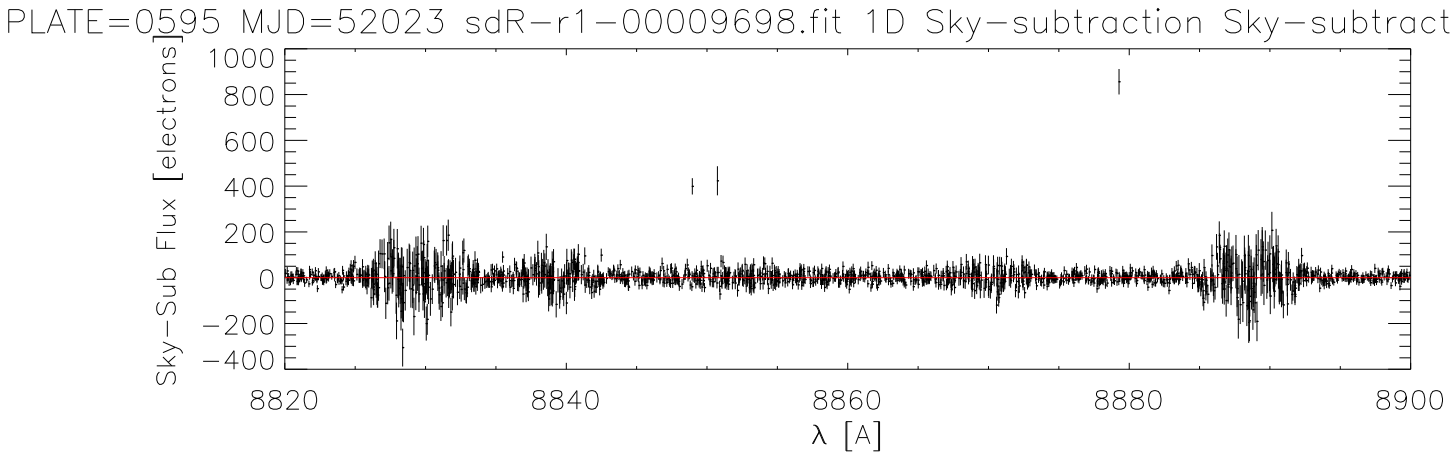

sky shift, pixels
0.24
0.22
0.20
0.18
0.16
0.14
5000
6000
7000
8000
9000
10000

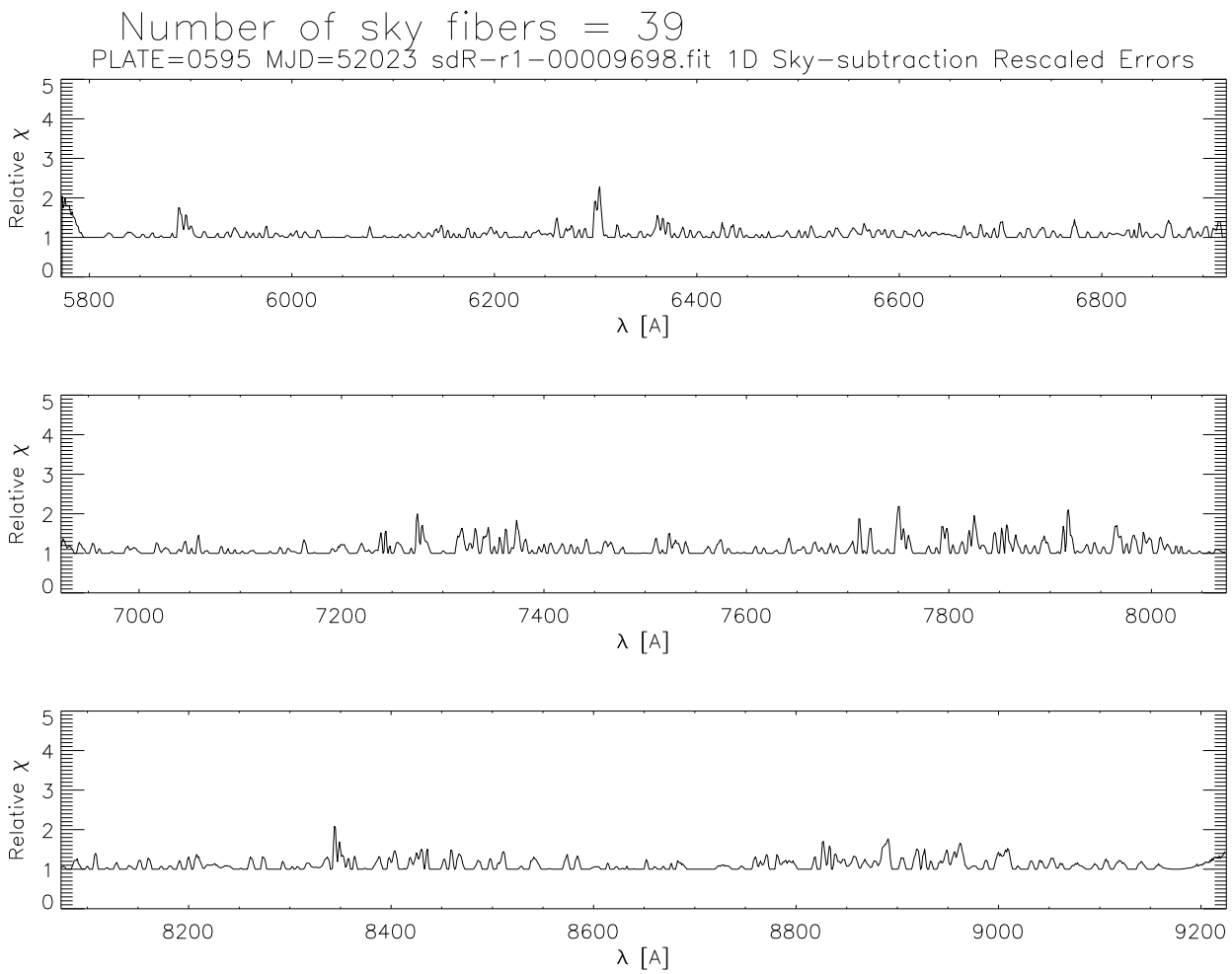

PLATE=0595 MJD=52023 Smooth superflat for sdR-r1-00009698.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

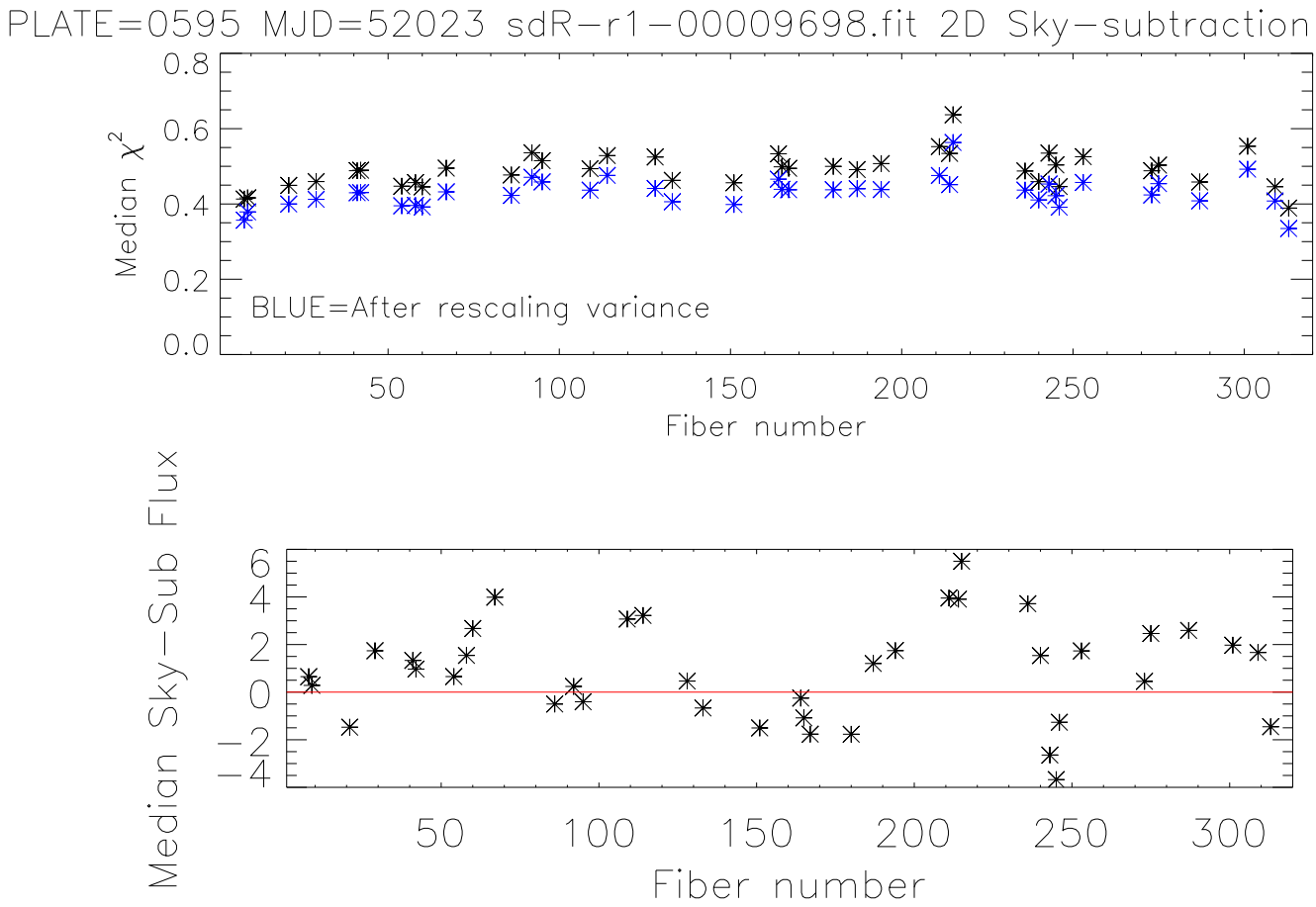

PLATE=0595 MJD=52023 sdR-r1-00009698.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

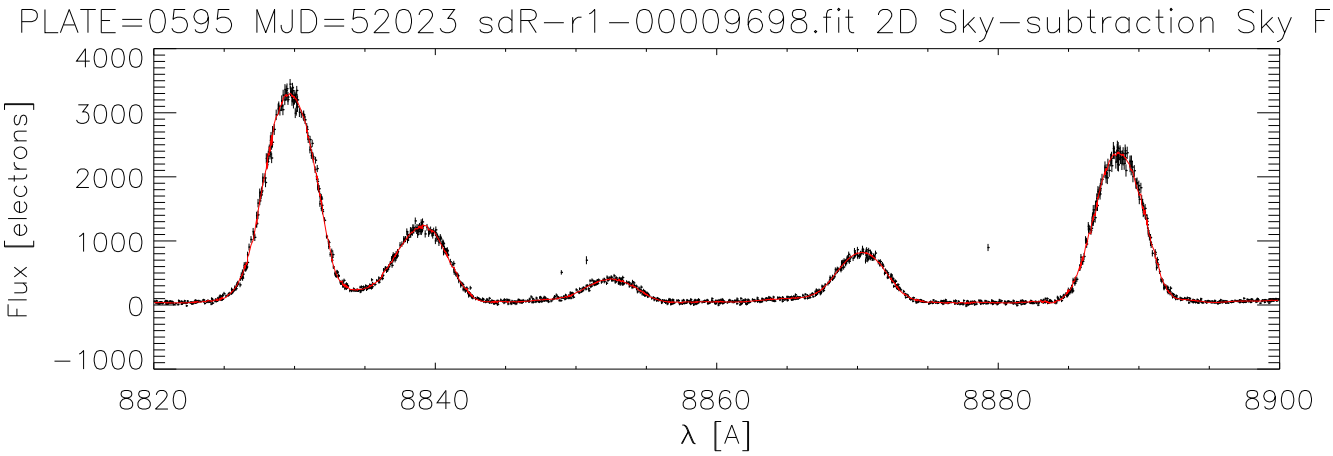
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

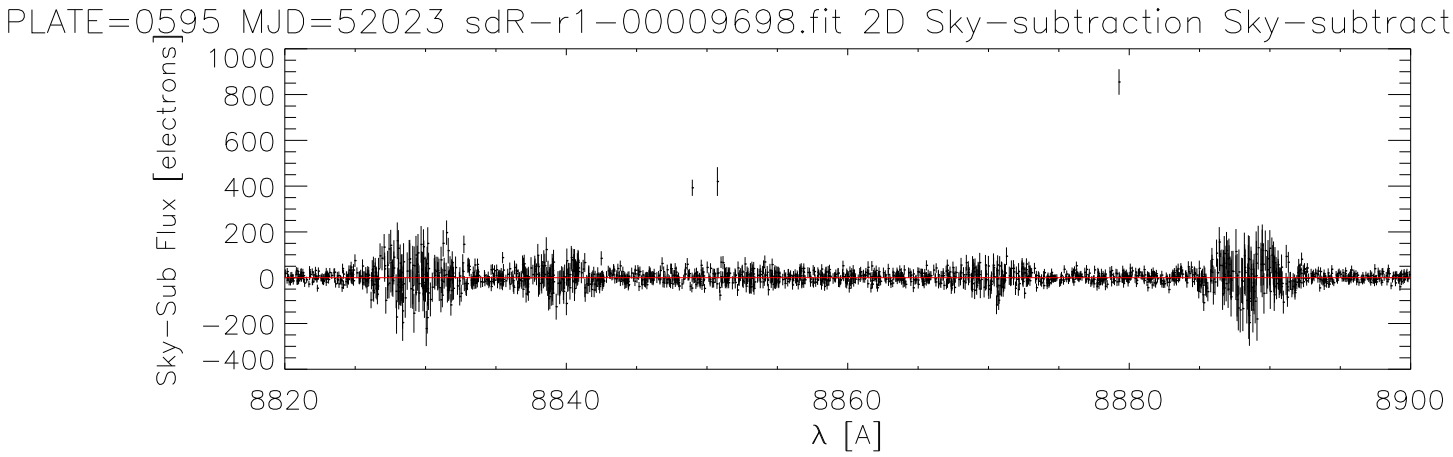

PLATE=0595 MJD=52023 sdR-r1-00009698.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

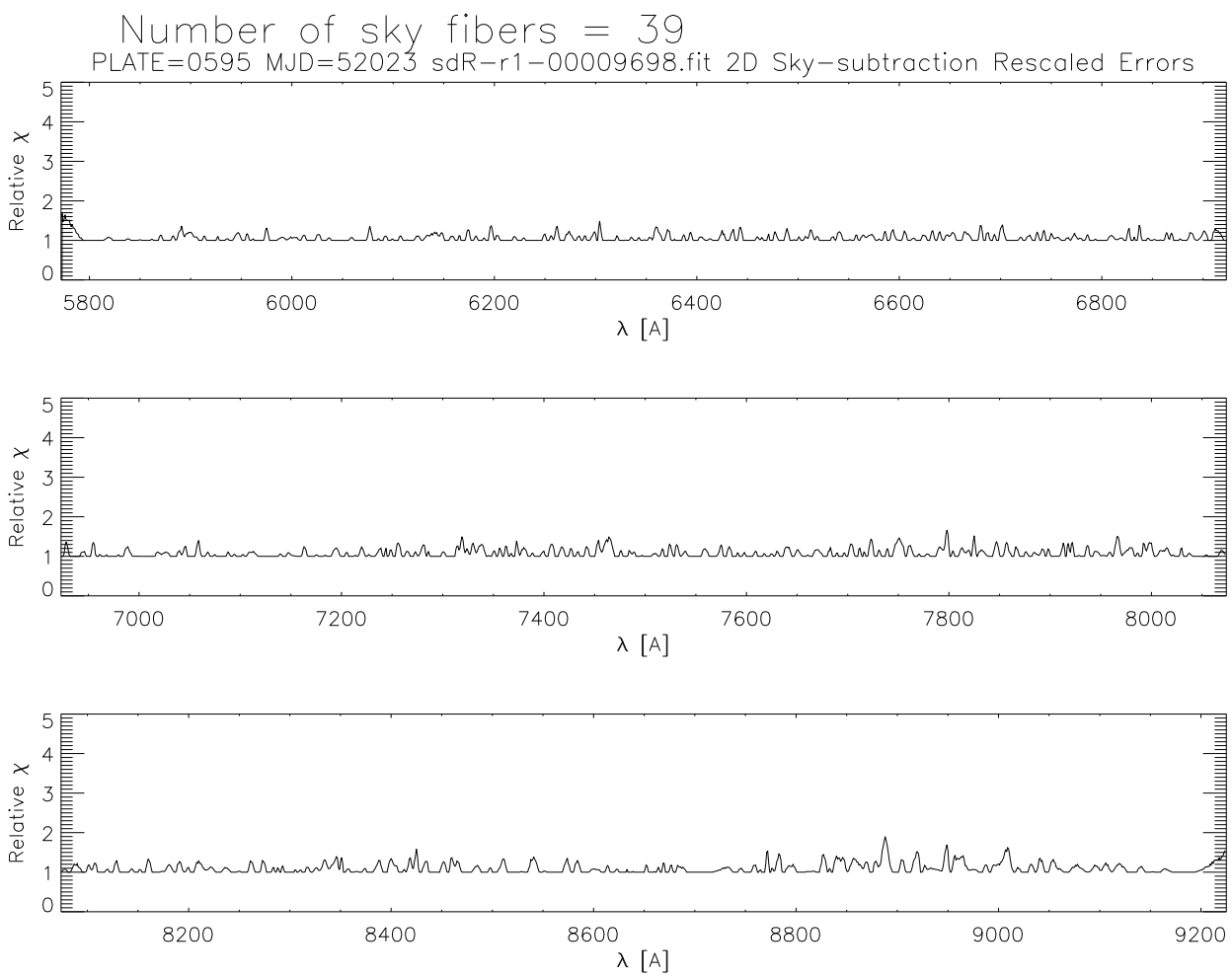

PLATE=0595 MJD=52023 sdR-r1-00009698.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

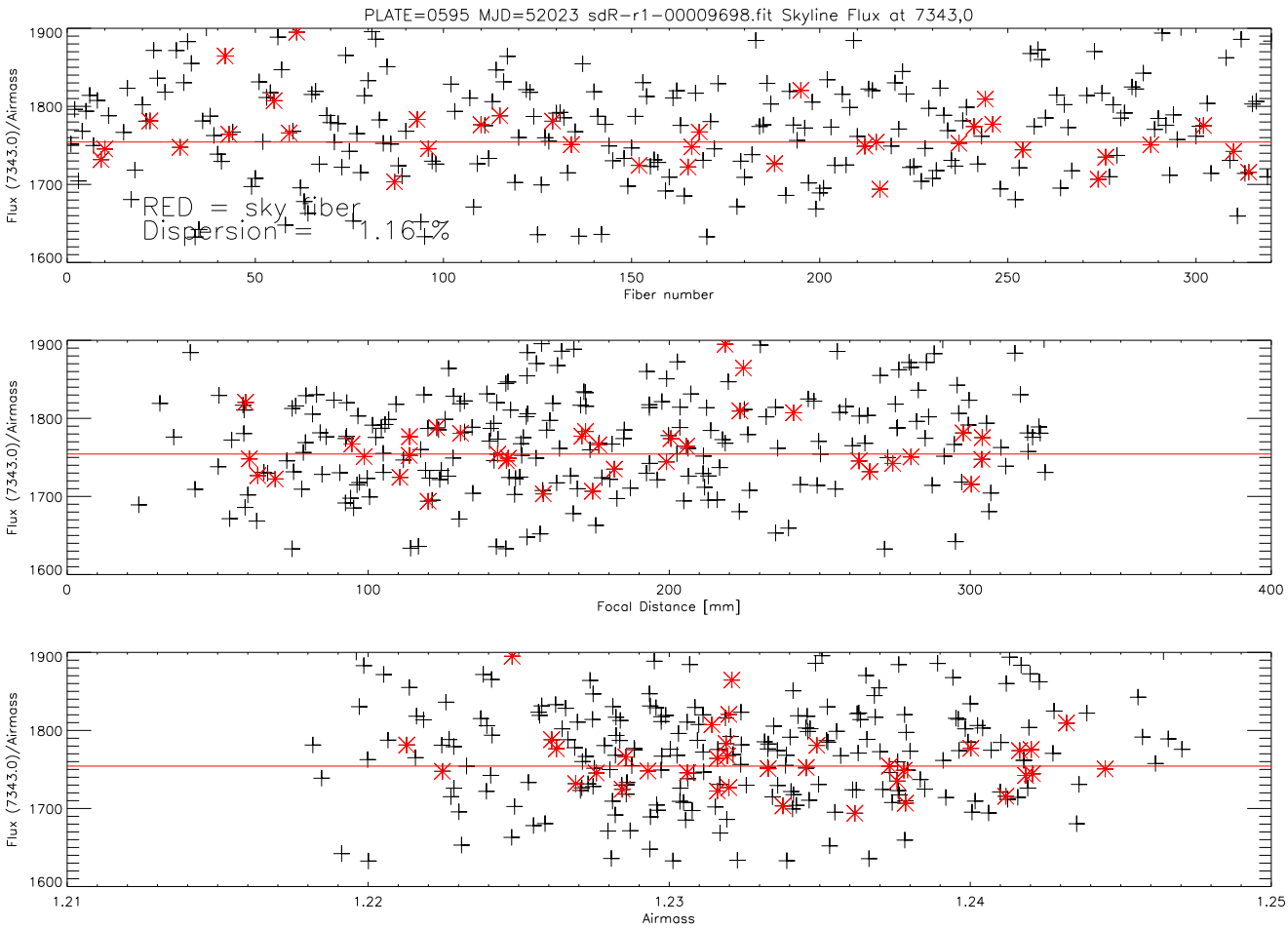

Number of sky fibers = 39
PLATE=0595 MJD=52023 sdR-r1-00009698.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

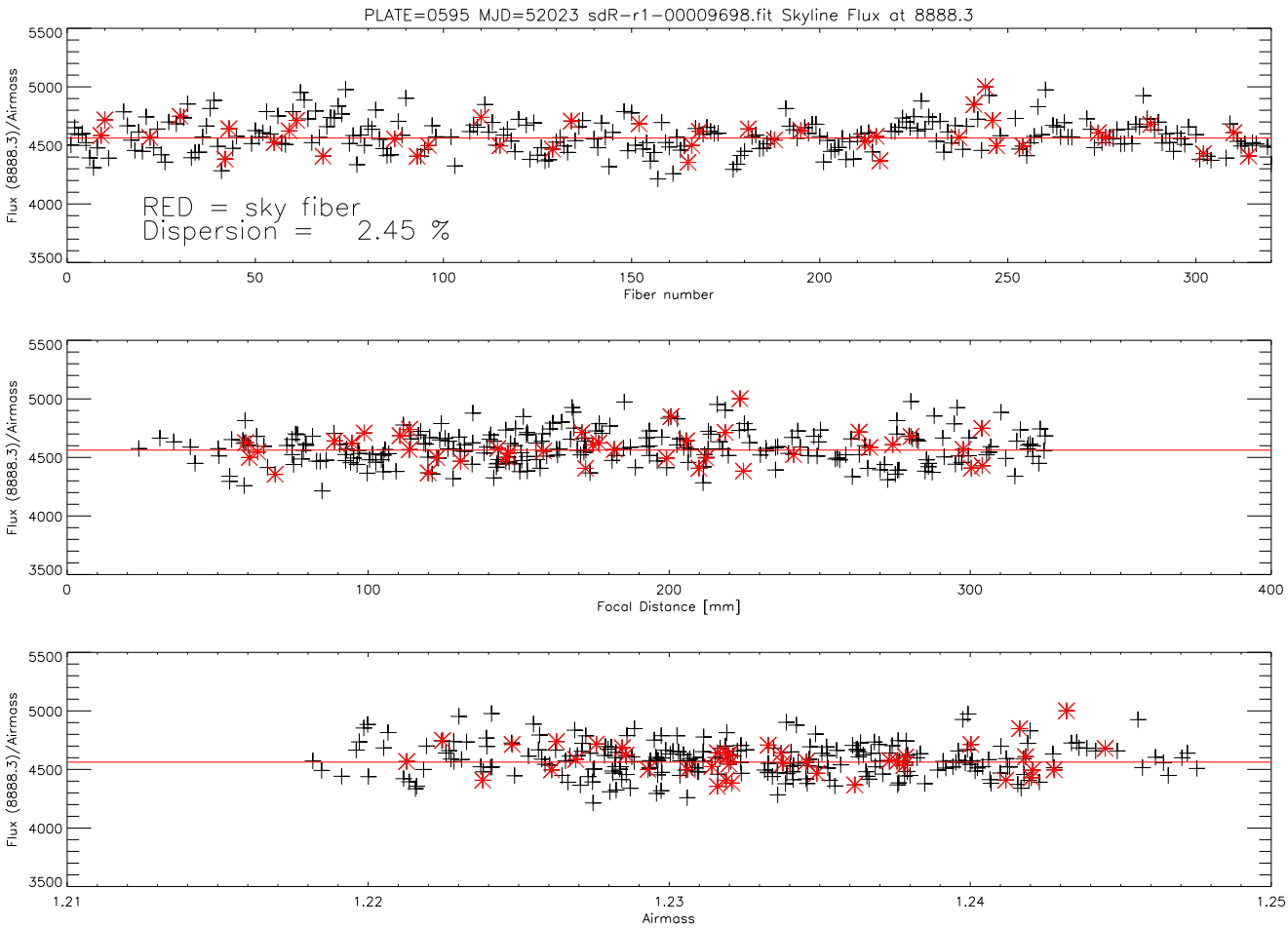

PLATE=0595 MJD=52023 sdR-r1-00009698.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

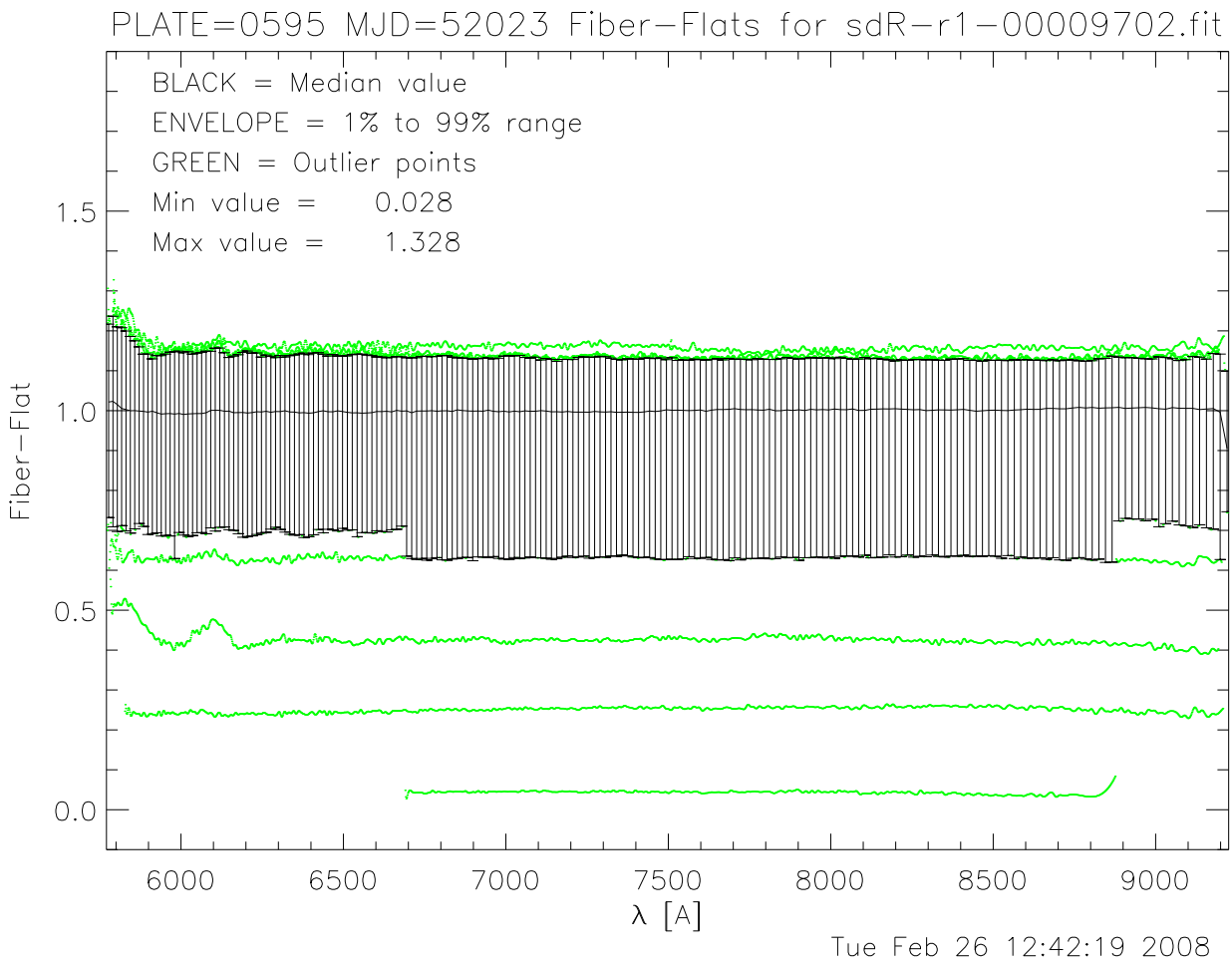

PLATE=0595 MJD=52023 sdR-r1-00009698.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

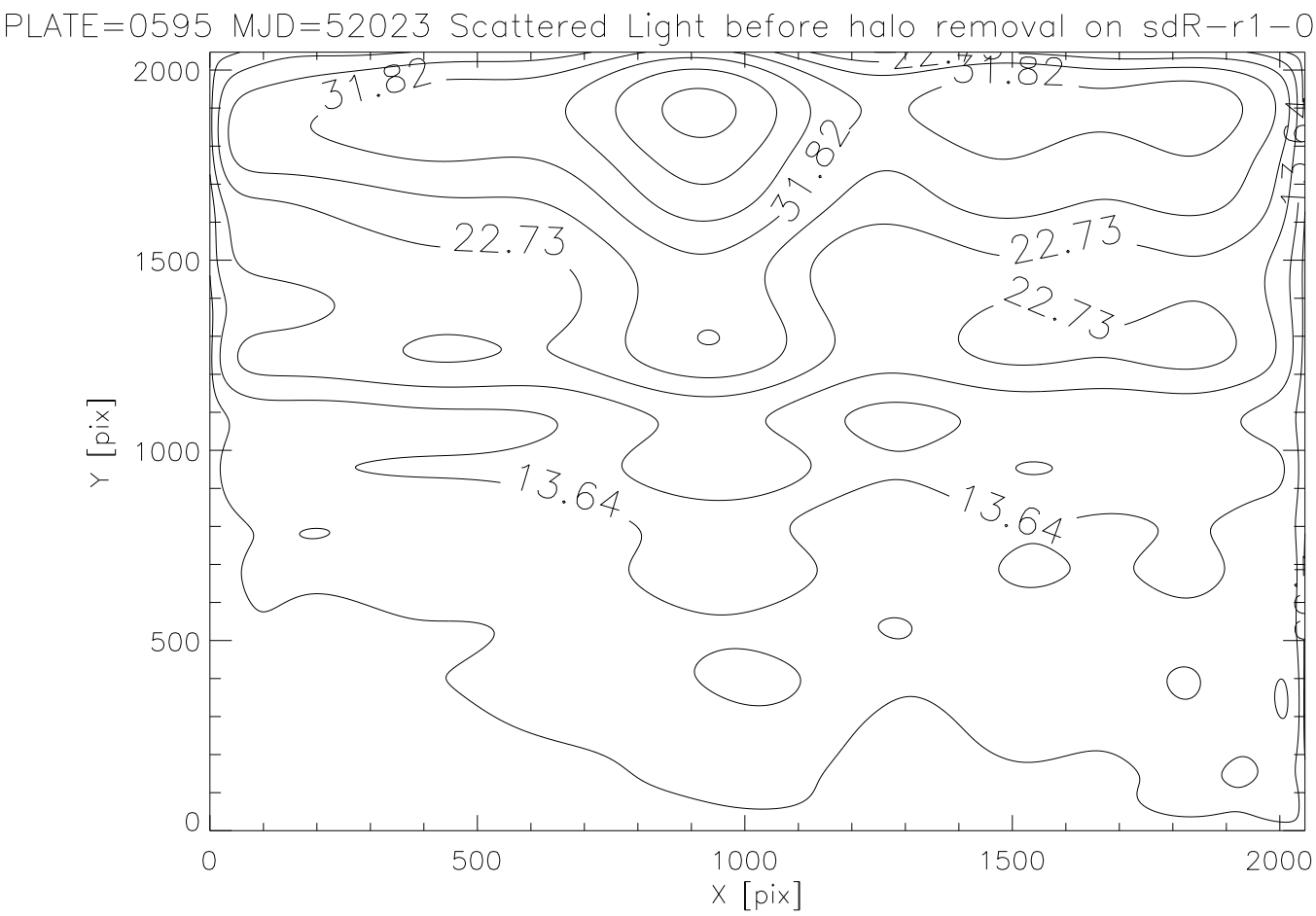

PLATE=0595 MJD=52023 sdR-r1-00009698.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

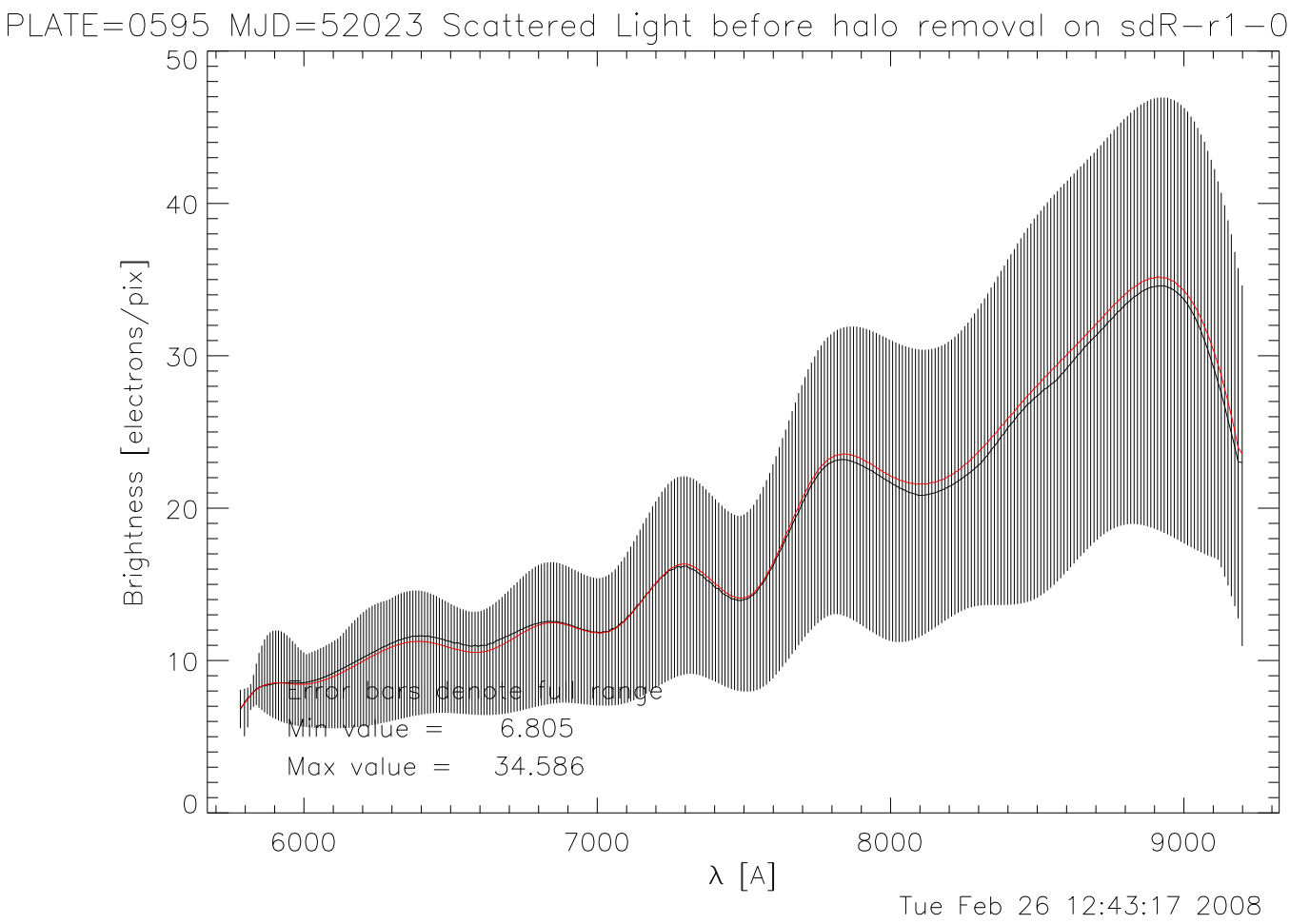

Number of sky fibers = 39
PLATE=0595 MJD=52023 sdR-r1-00009698.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

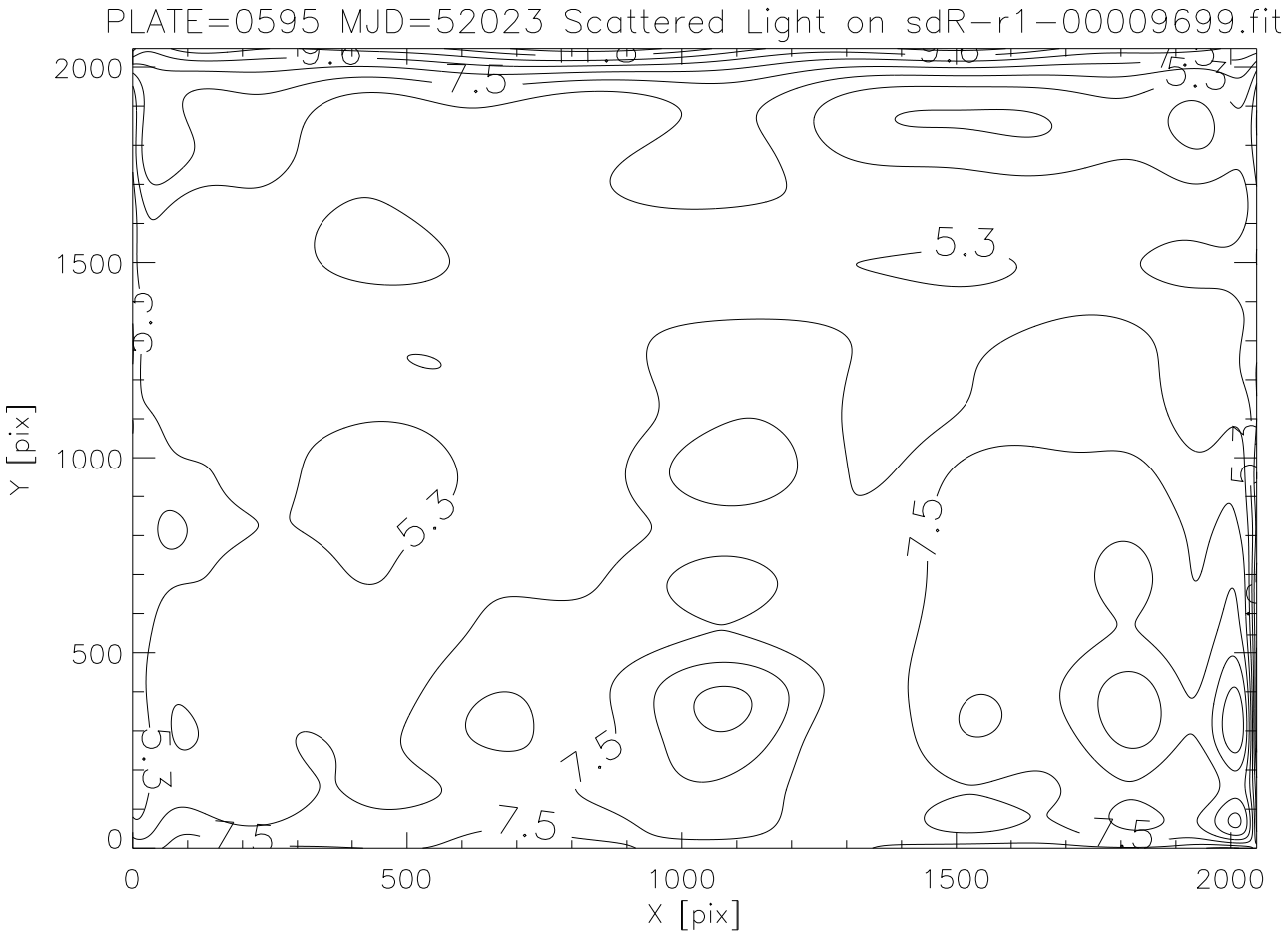

PLATE=0595 MJD=52023 sdR-r1-00009698.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion= 1.16%
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

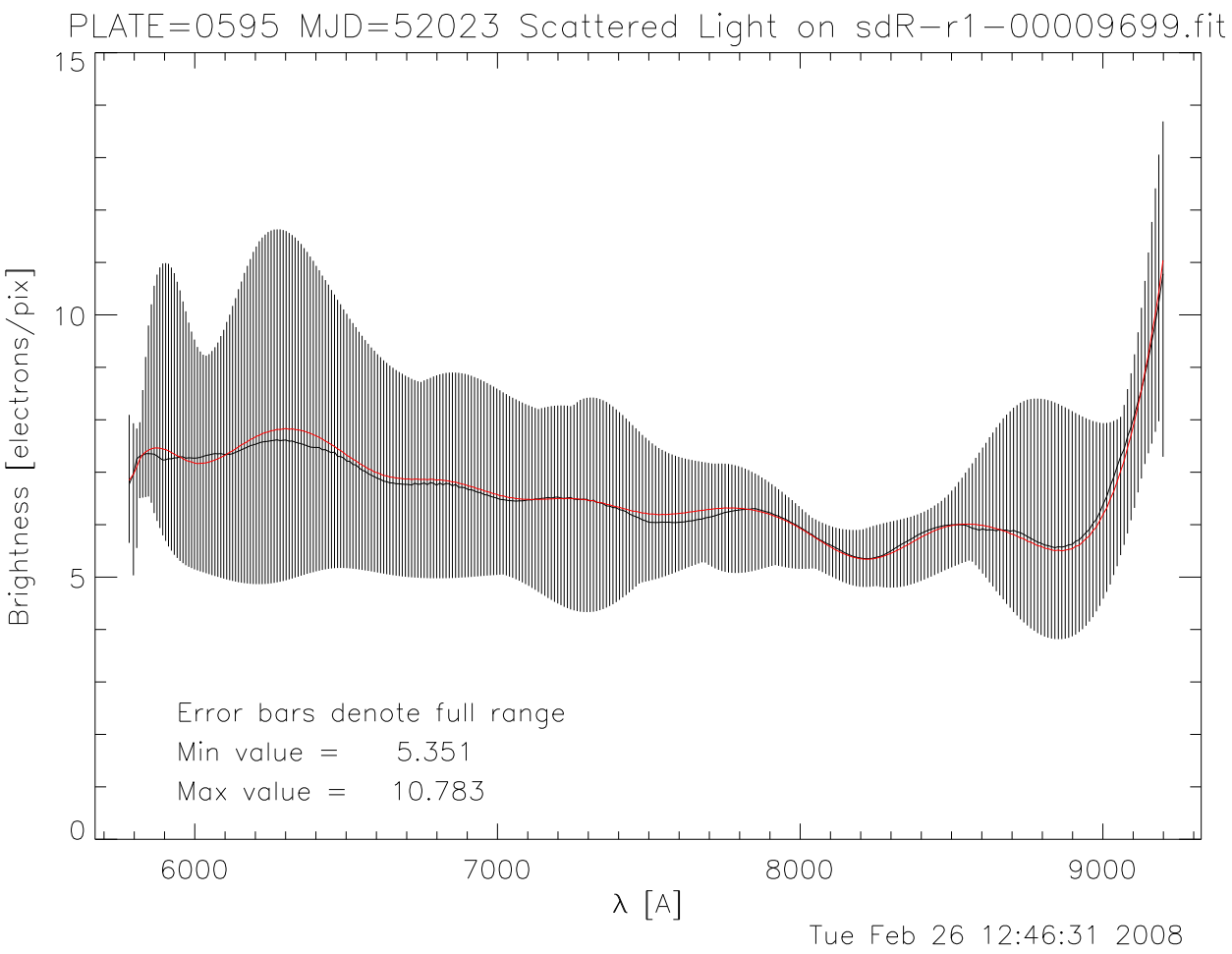

PLATE=0595 MJD=52023 sdR-r1-00009698.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.45 %
Fiber number
Focal Distance [mm]
Airmass

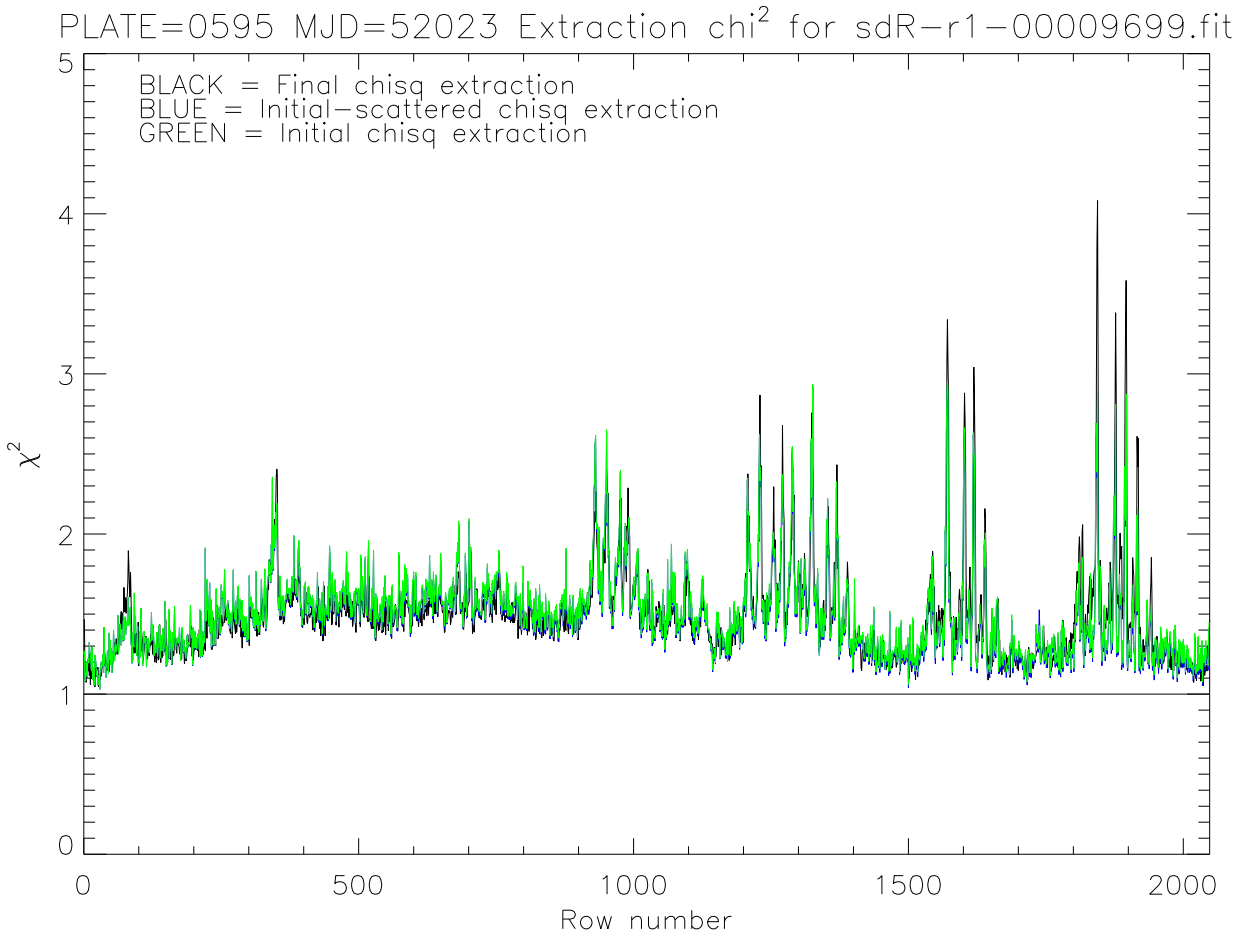

PLATE=0595 MJD=52023 Fiber−Flats for sdR−r1−00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.028
Max value = 1.328
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 12:42:19 2008

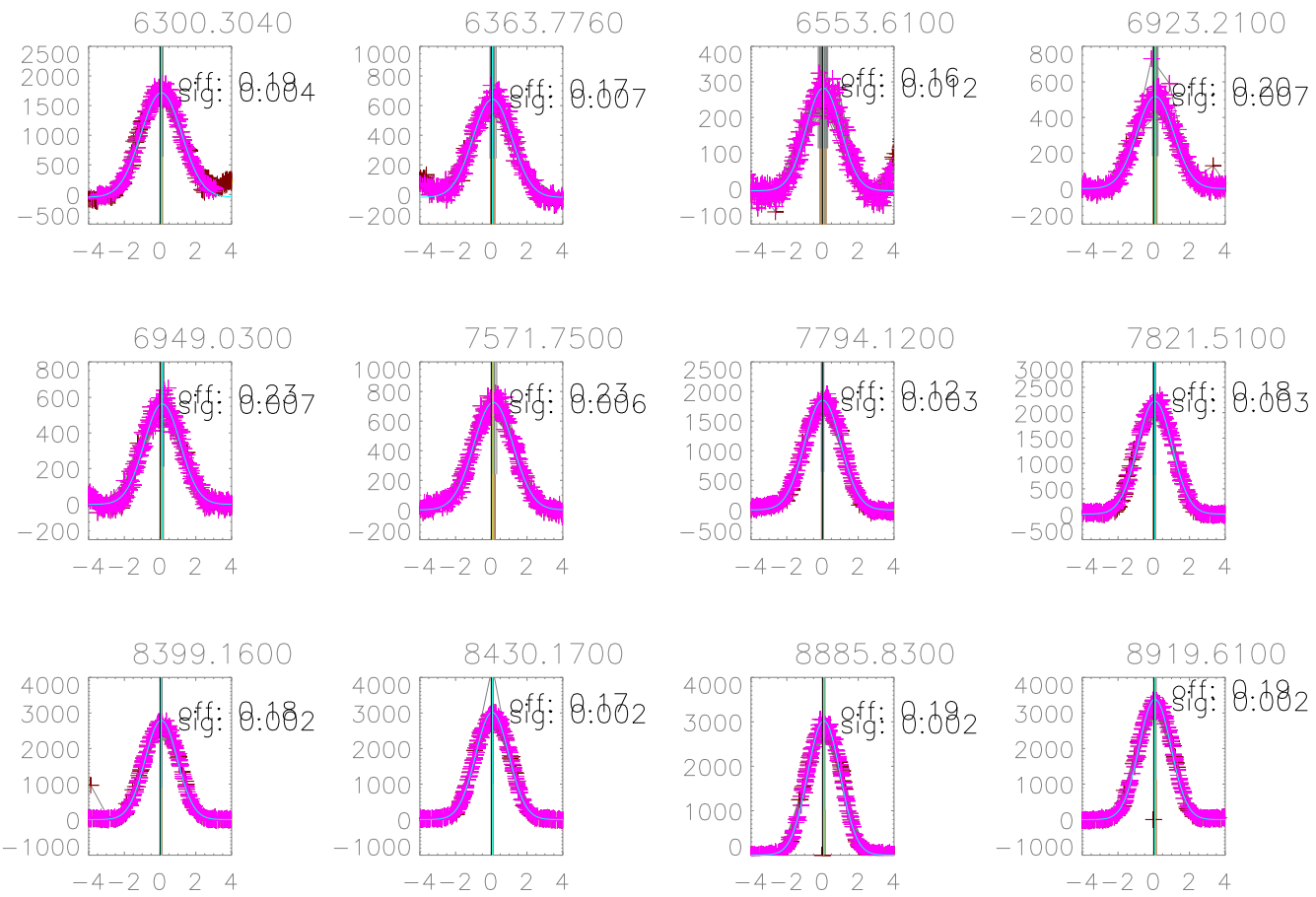

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR−r1−00009699.fi
31.82
31.82
31.82
22.73
22.73
22.73
13.64
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

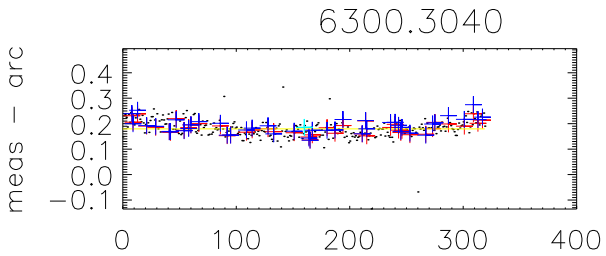

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-r1-00009699.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.805
Max value = 34.586
Tue Feb 26 12:43:17 2008

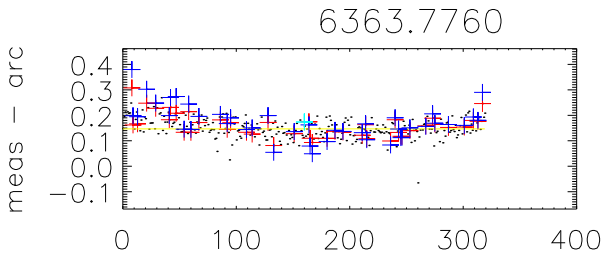

PLATE=0595 MJD=52023 Scattered Light on sdR-r1-00009699.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.3
7.5

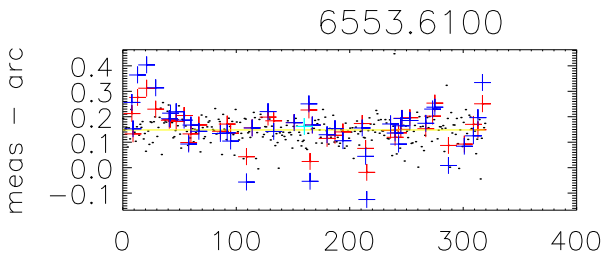

PLATE=0595 MJD=52023 Scattered Light on sdR-r1-00009699.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.351
Max value = 10.783
Tue Feb 26 12:46:31 2008

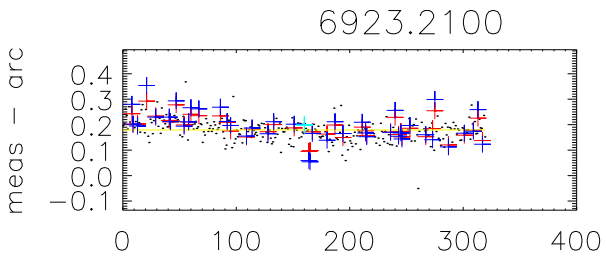

PLATE=0595 MJD=52023 Extraction chi^2 for sdR−r1−00009699.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

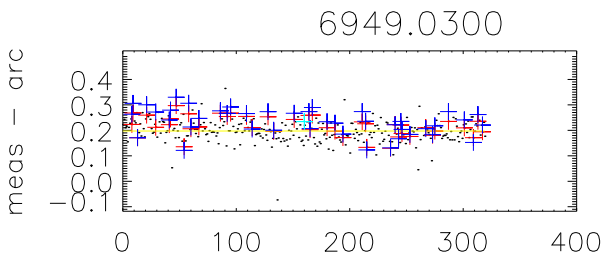

6300.3040
off: 0.18
sig: 0.004
6363.7760
off: 0.17
sig: 0.007
6553.6100
off: 0.16
sig: 0.012
6923.2100
off: 0.20
sig: 0.007
6949.0300
off: 0.23
sig: 0.007
7571.7500
off: 0.23
sig: 0.006
7794.1200
off: 0.12
sig: 0.003
7821.5100
off: 0.18
sig: 0.003
8399.1600
off: 0.18
sig: 0.002
8430.1700
off: 0.17
sig: 0.002
8885.8300
off: 0.19
sig: 0.002
8919.6100
off: 0.18
sig: 0.002

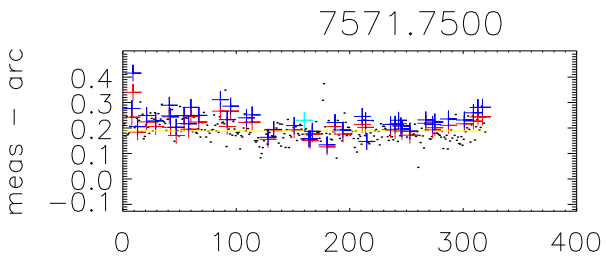

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

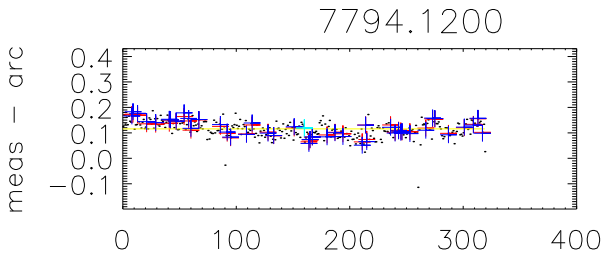

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

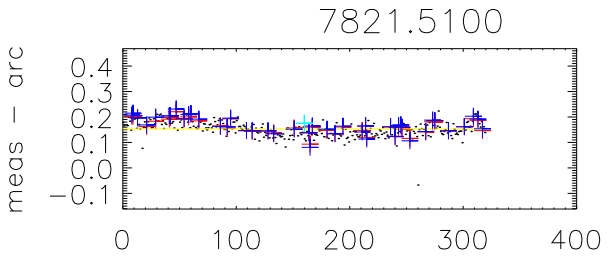

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

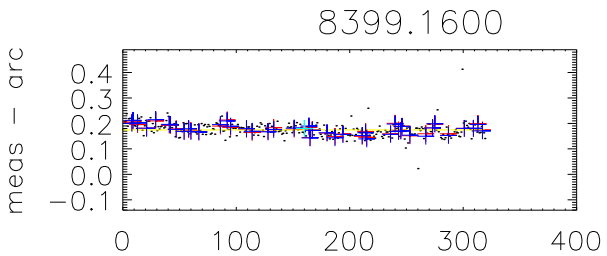

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

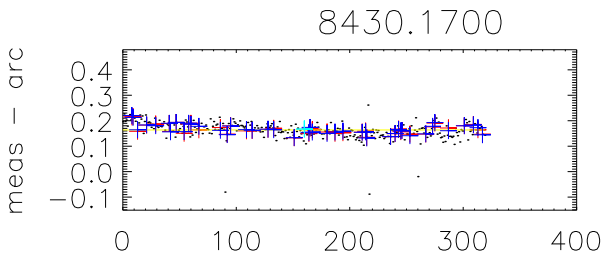

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

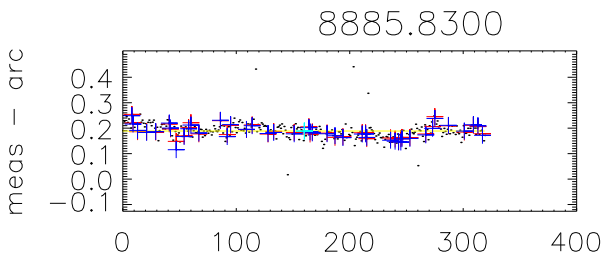

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

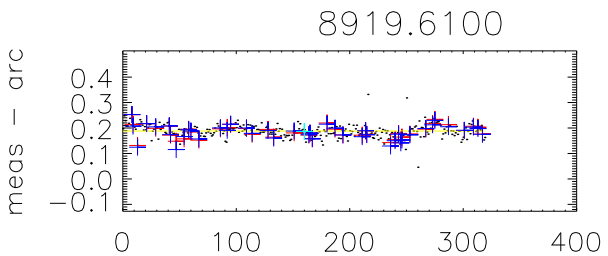

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

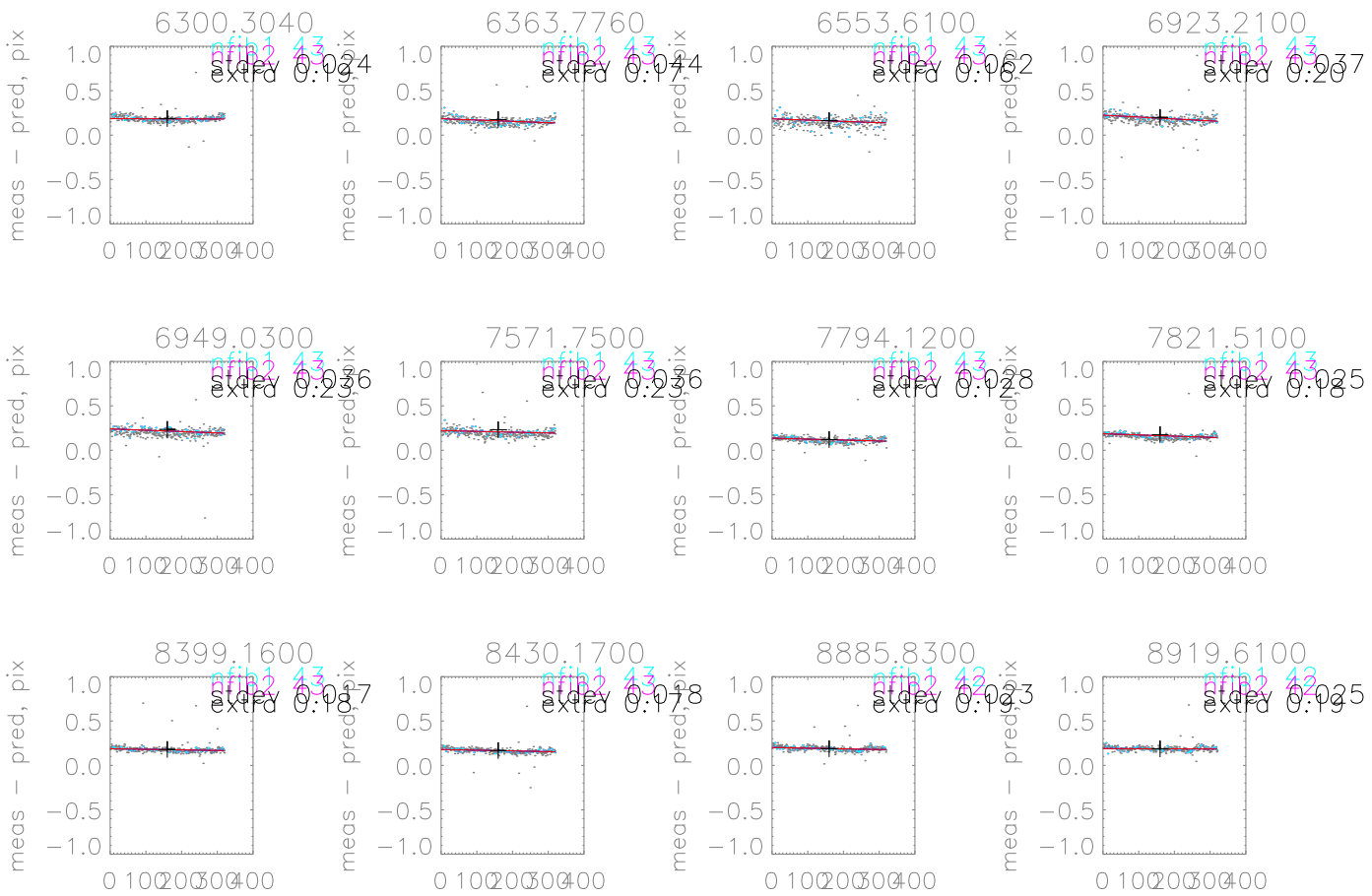

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

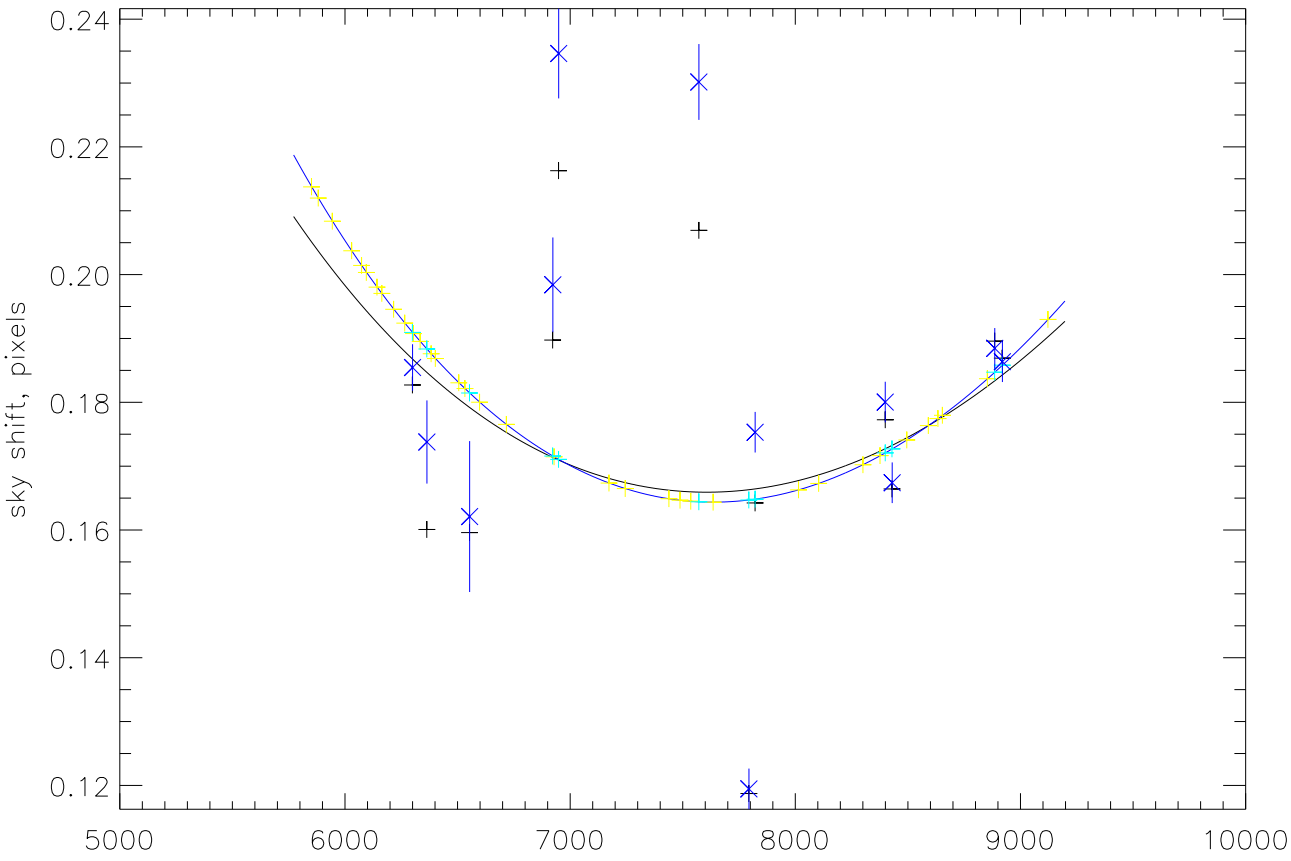

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

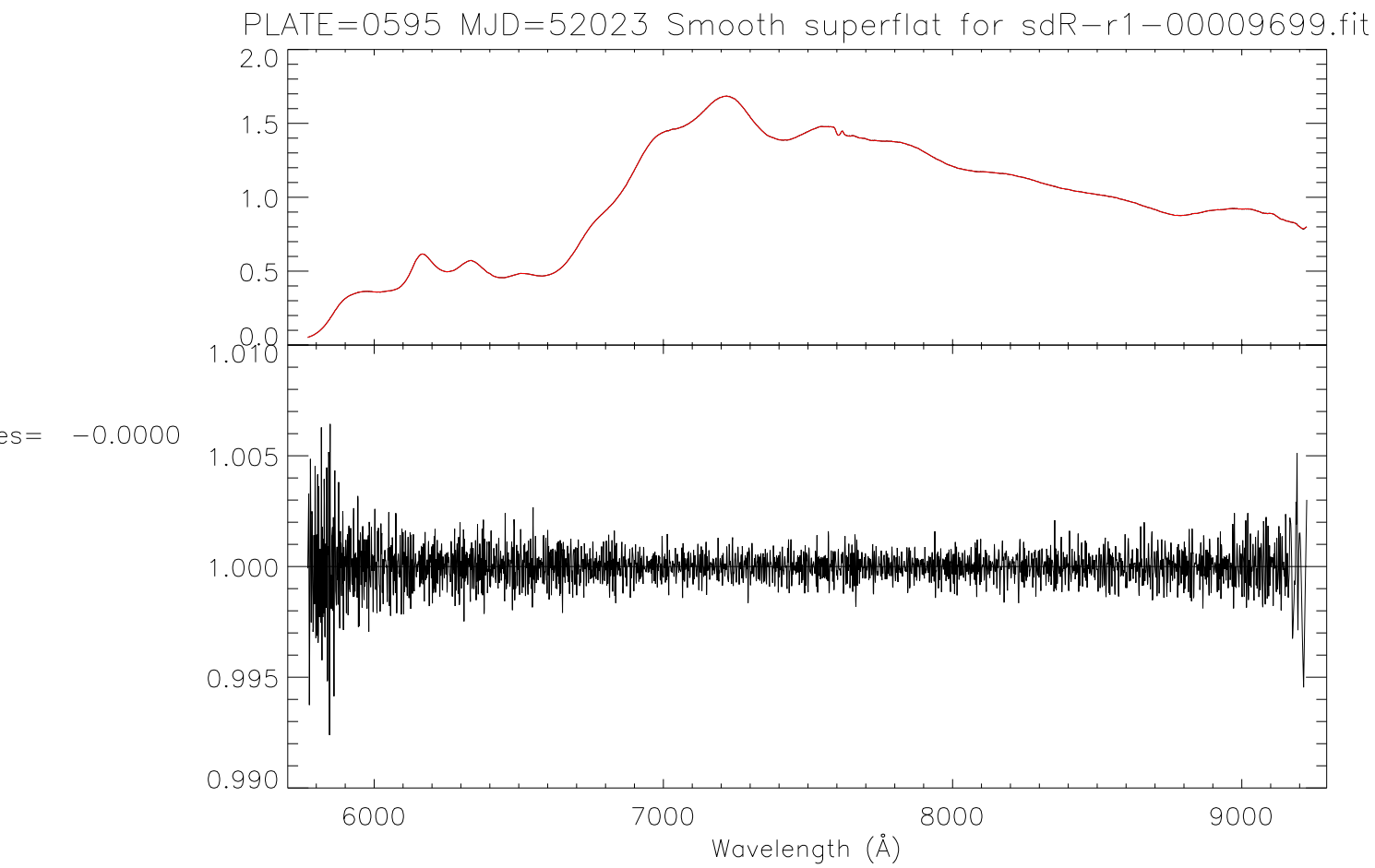

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

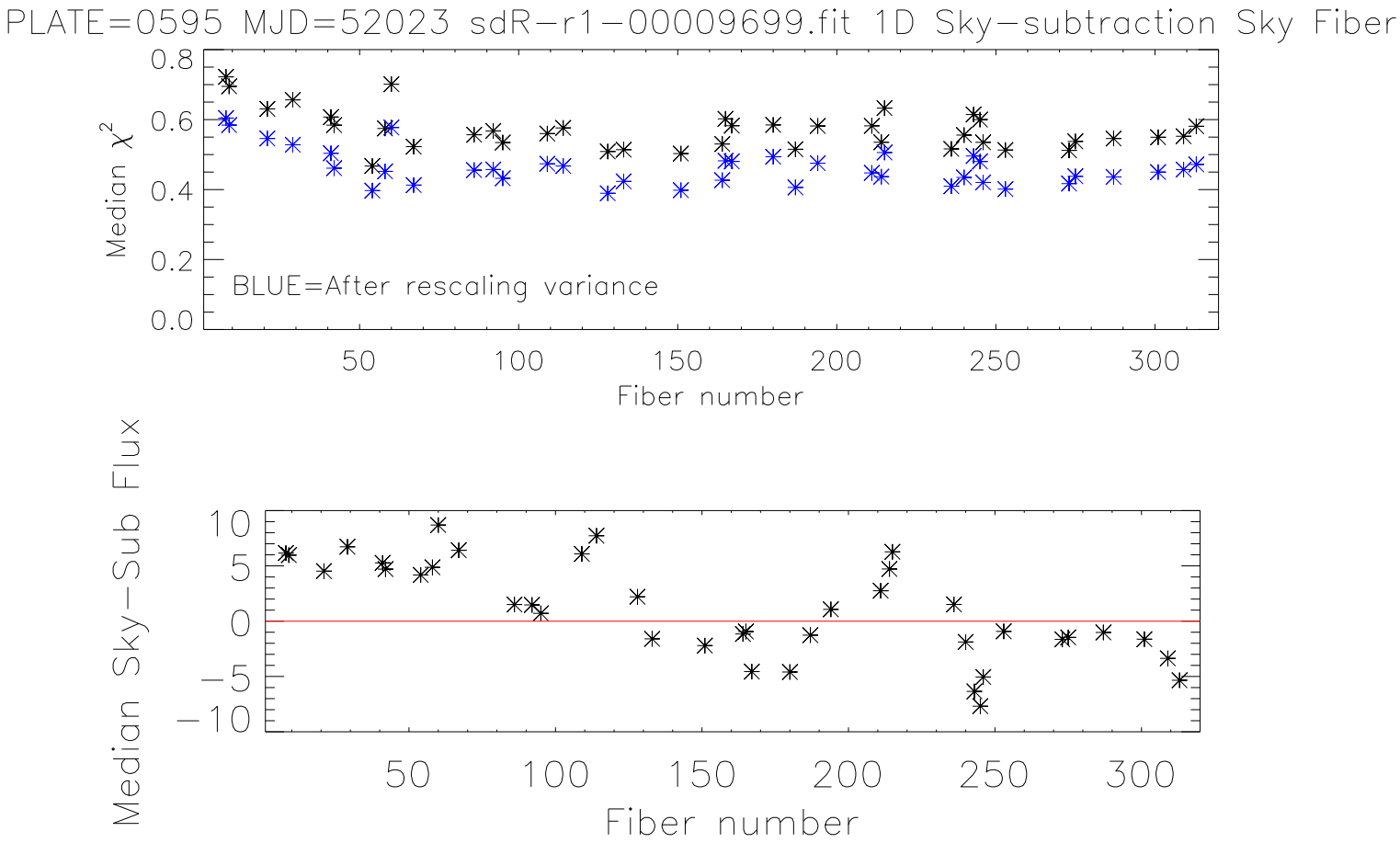

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

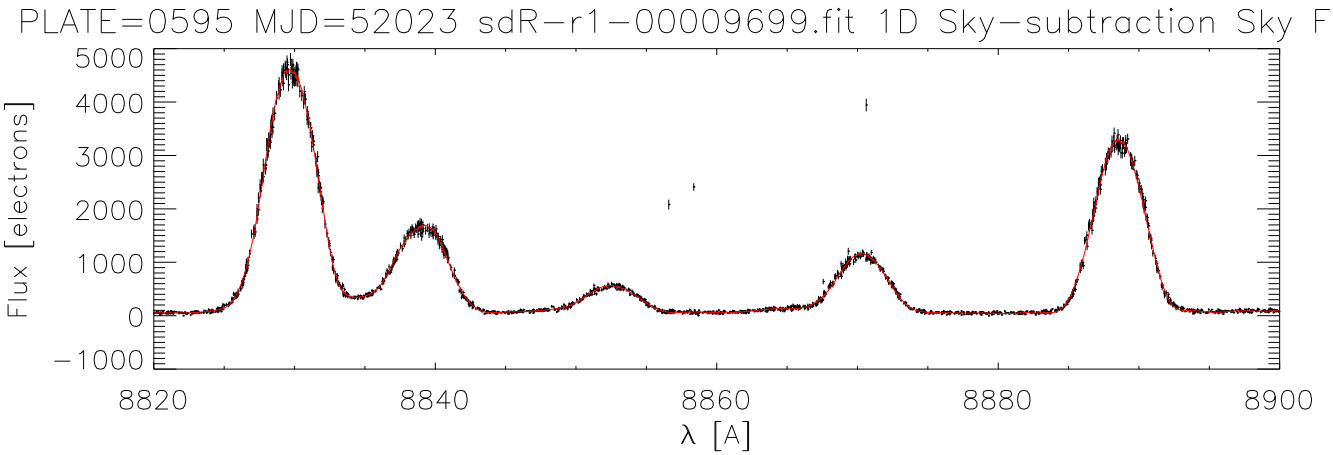

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

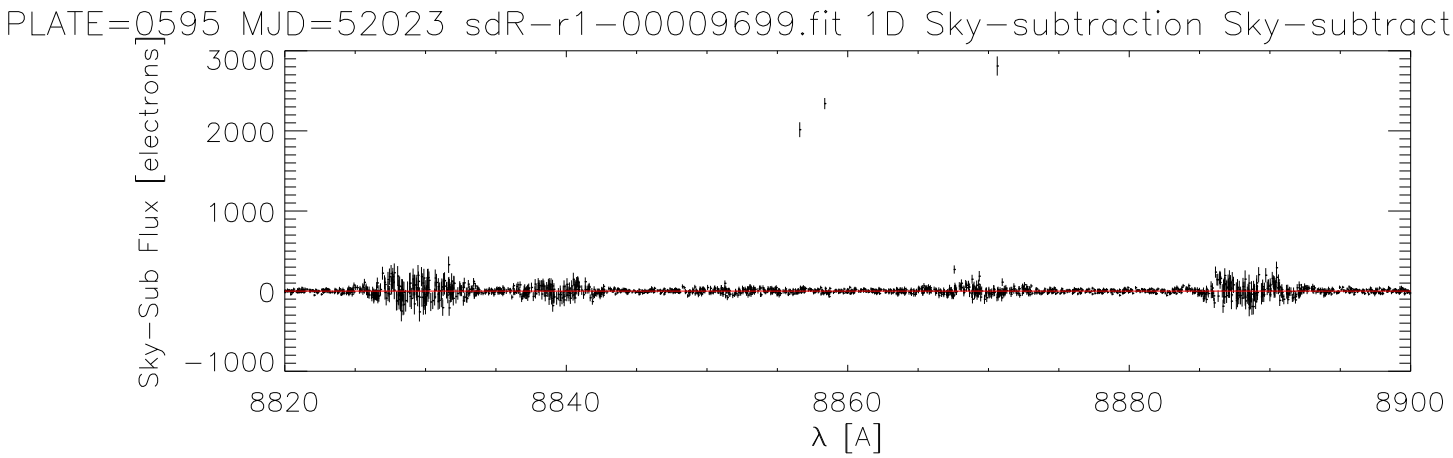

6300.3040
mfib1 43
mfib2 43
stdev 0.024
extra 0.19
6363.7760
mfib1 43
mfib2 43
stdev 0.044
extra 0.17
6553.6100
mfib1 43
mfib2 43
stdev 0.062
extra 0.16
6923.2100
mfib1 43
mfib2 43
stdev 0.037
extra 0.20
6949.0300
mfib1 43
mfib2 43
stdev 0.036
extra 0.23
7571.7500
mfib1 43
mfib2 43
stdev 0.036
extra 0.23
7794.1200
mfib1 43
mfib2 43
stdev 0.028
extra 0.12
7821.5100
mfib1 43
mfib2 43
stdev 0.025
extra 0.18
8399.1600
mfib1 43
mfib2 43
stdev 0.047
extra 0.18
8430.1700
mfib1 43
mfib2 43
stdev 0.078
extra 0.17
8885.8300
mfib1 42
mfib2 42
stdev 0.023
extra 0.13
8919.6100
mfib1 42
mfib2 42
stdev 0.025
extra 0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

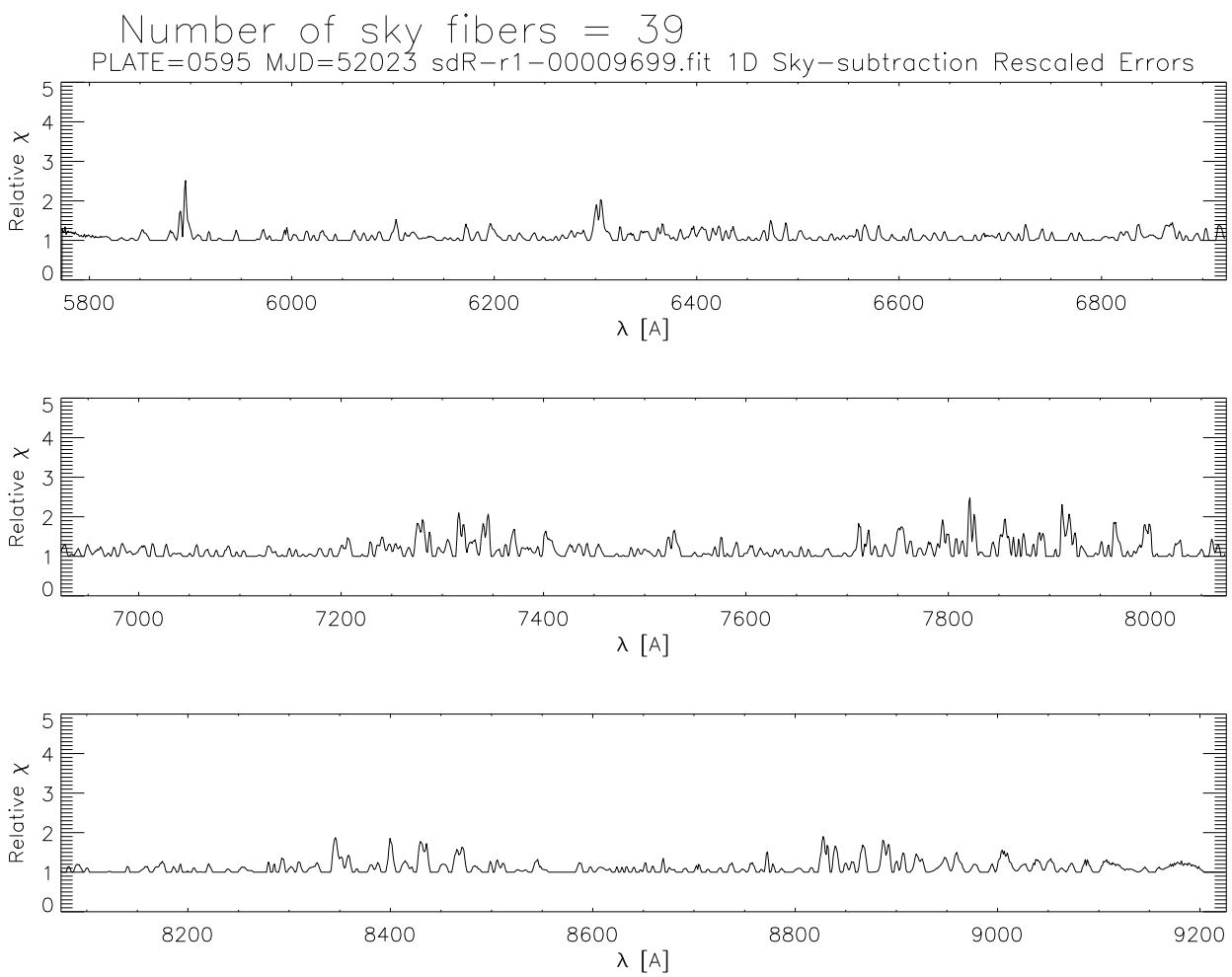

0.24
0.22
0.20
0.18
0.16
0.14
0.12
sky shift, pixels
5000
6000
7000
8000
9000
10000

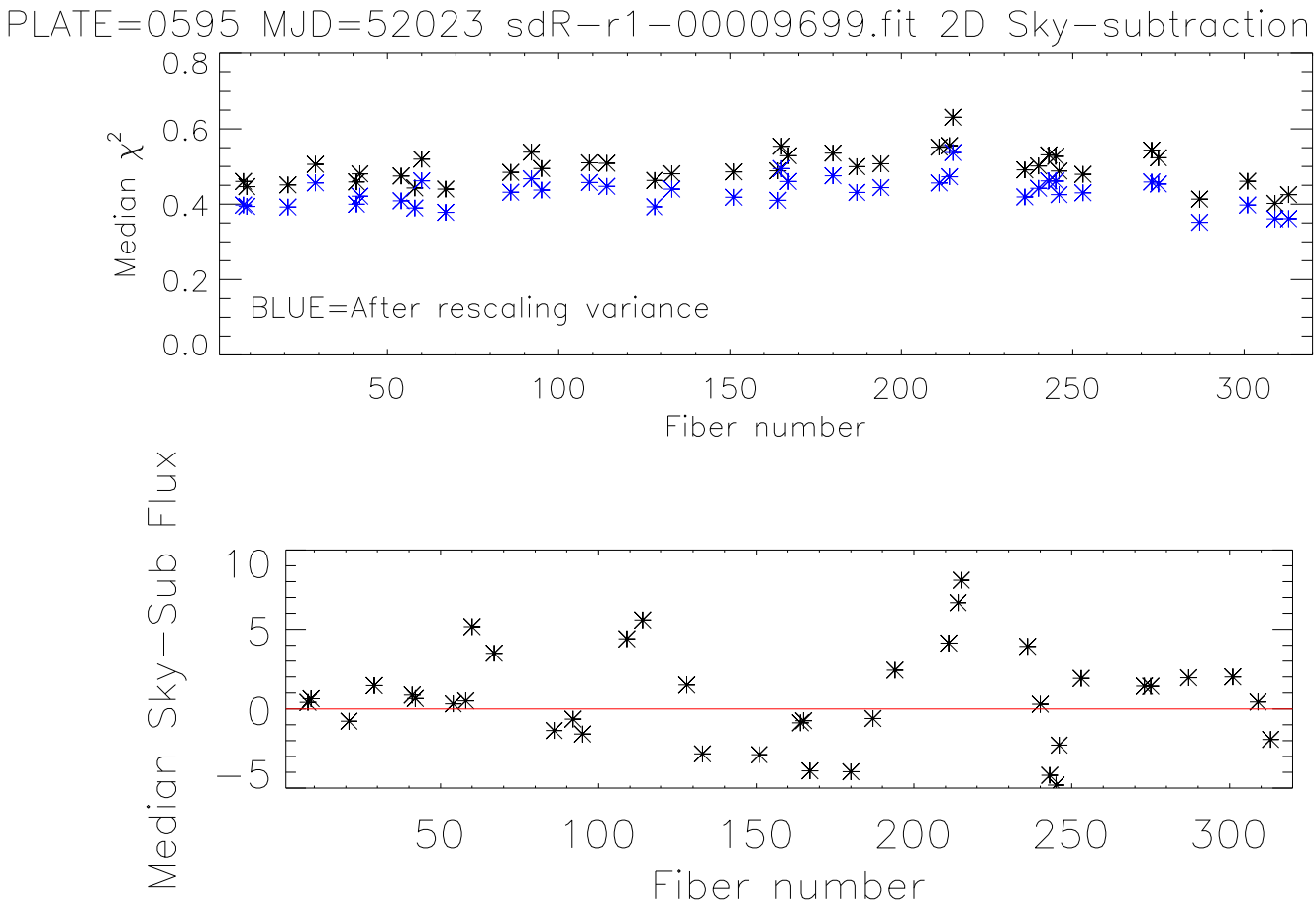

PLATE=0595 MJD=52023 Smooth superflat for sdR-r1-00009699.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

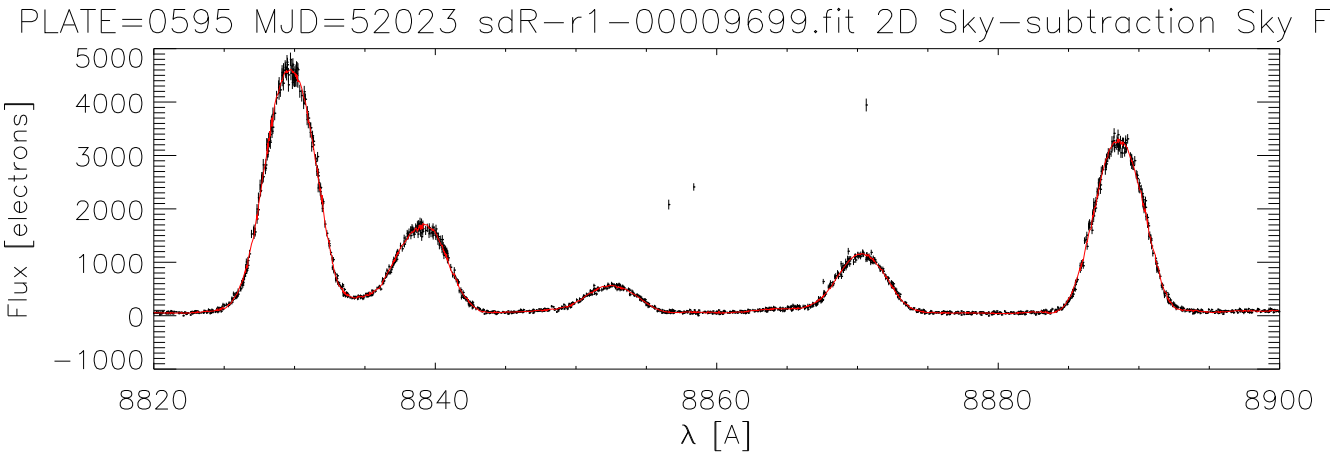

PLATE=0595 MJD=52023 sdR-r1-00009699.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

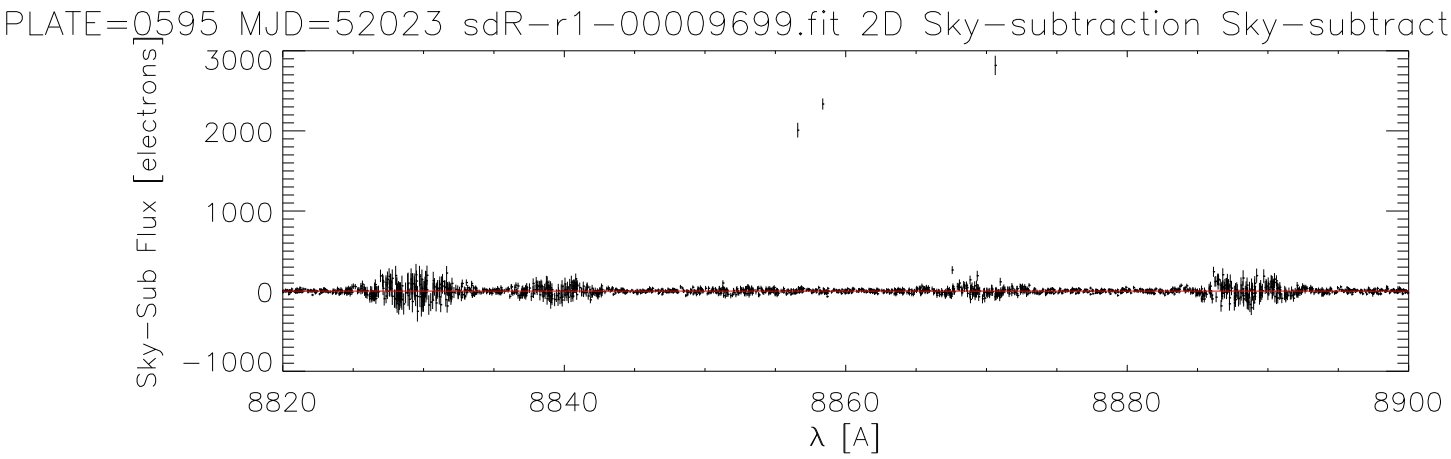

PLATE=0595 MJD=52023 sdR-r1-00009699.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

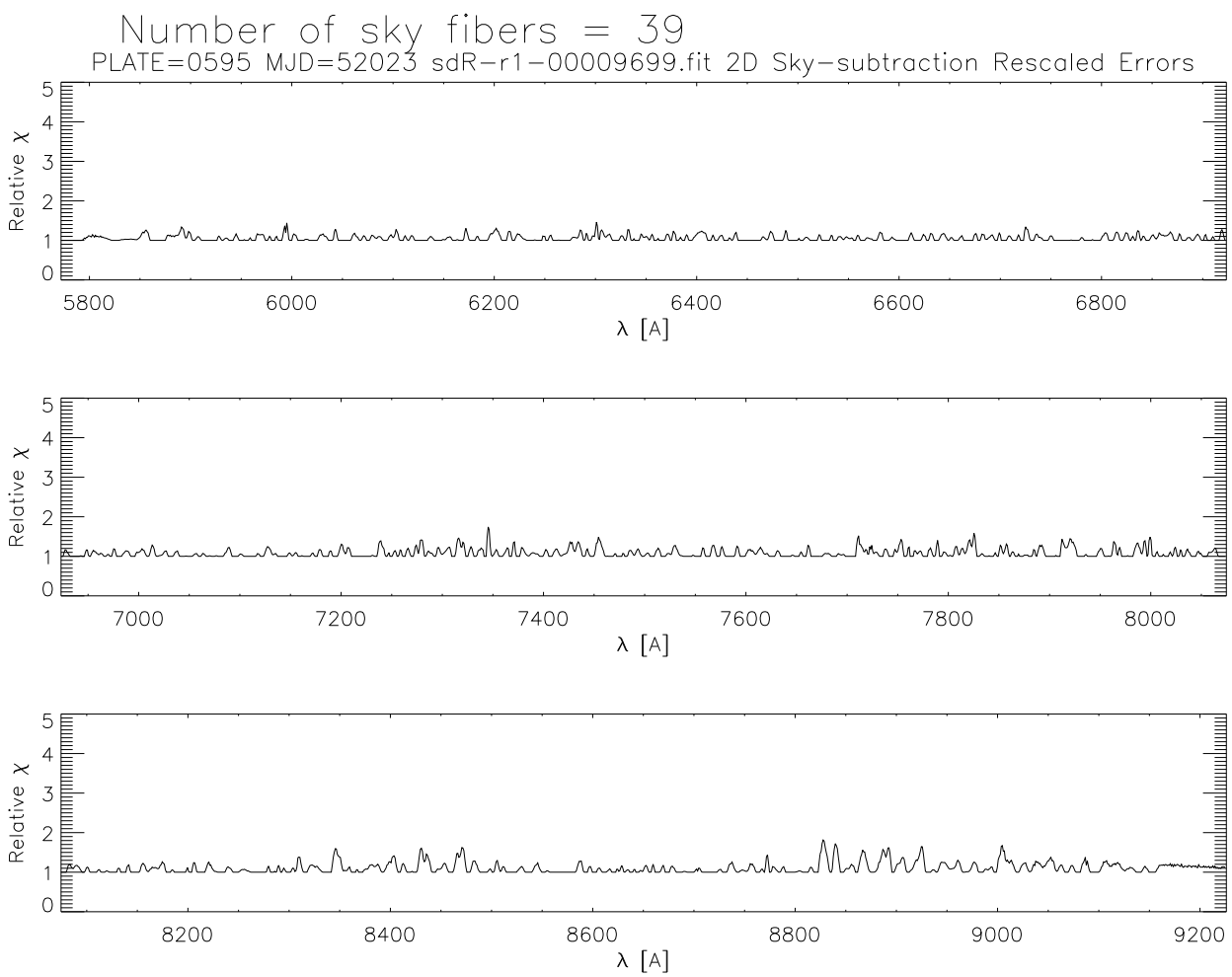

PLATE=0595 MJD=52023 sdR-r1-00009699.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

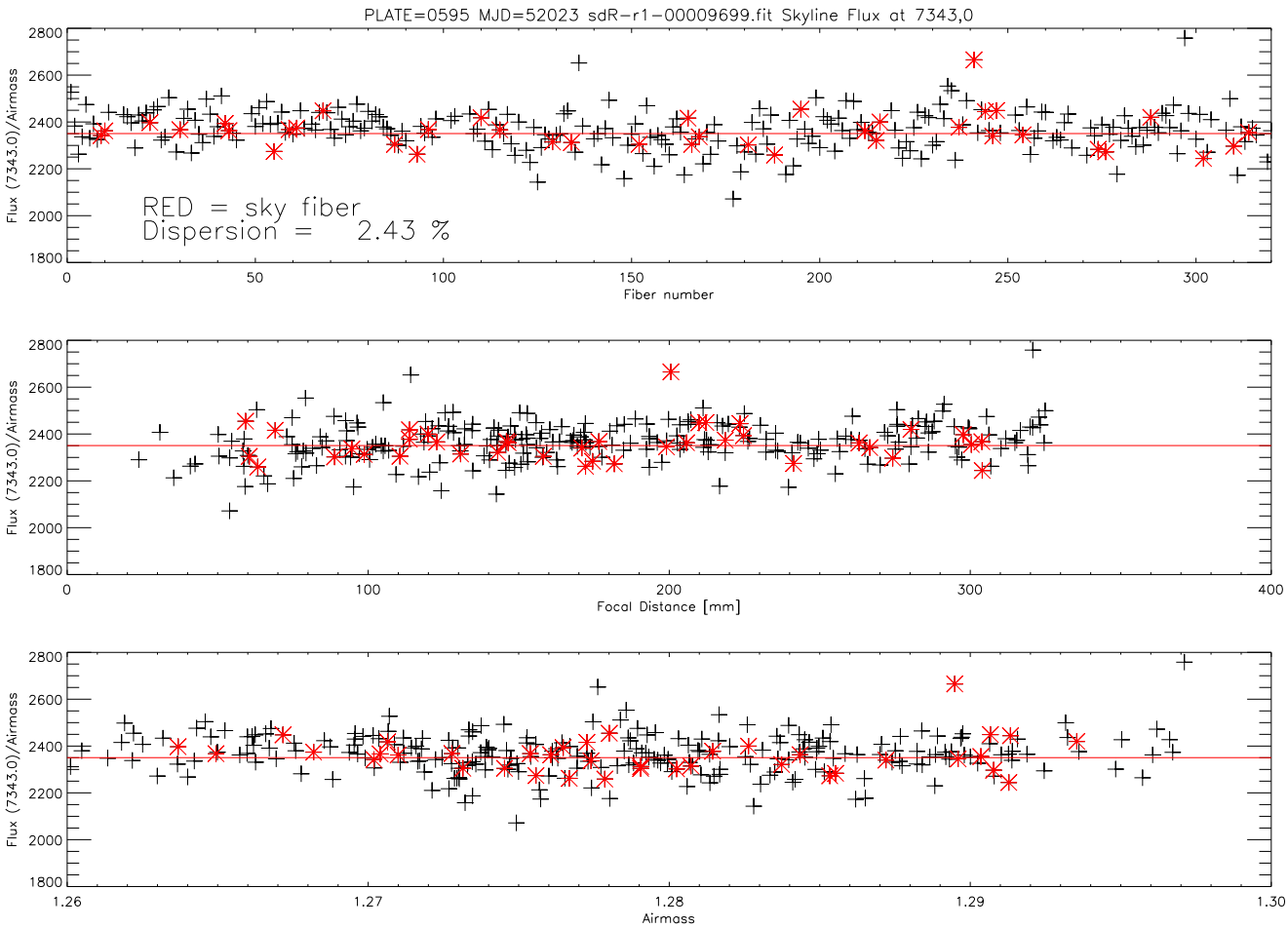

Number of sky fibers = 39
PLATE=0595 MJD=52023 sdR-r1-00009699.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

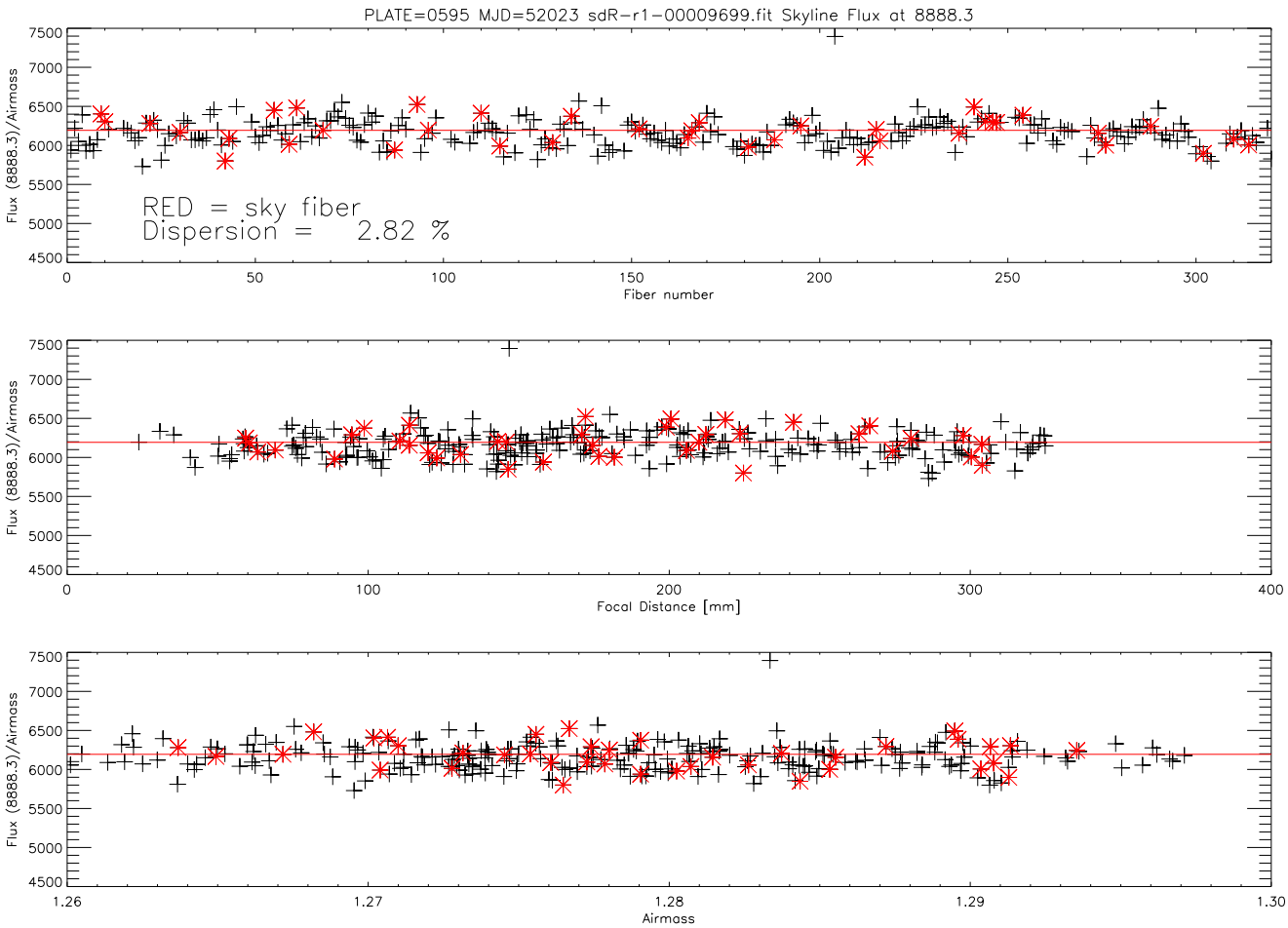

PLATE=0595 MJD=52023 sdR-r1-00009699.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
50
100
150
200
250
300
Fiber number

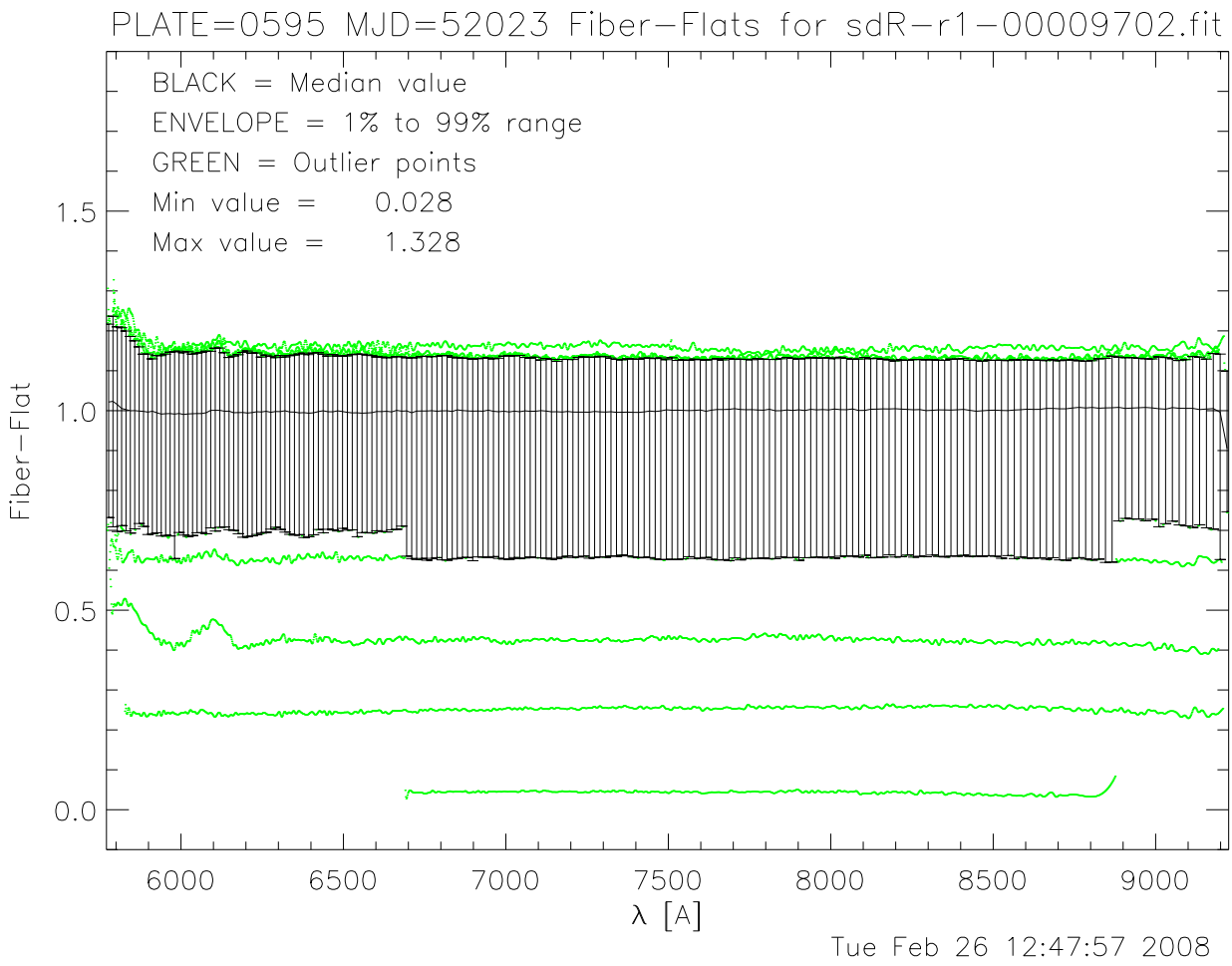

PLATE=0595 MJD=52023 sdR-r1-00009699.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

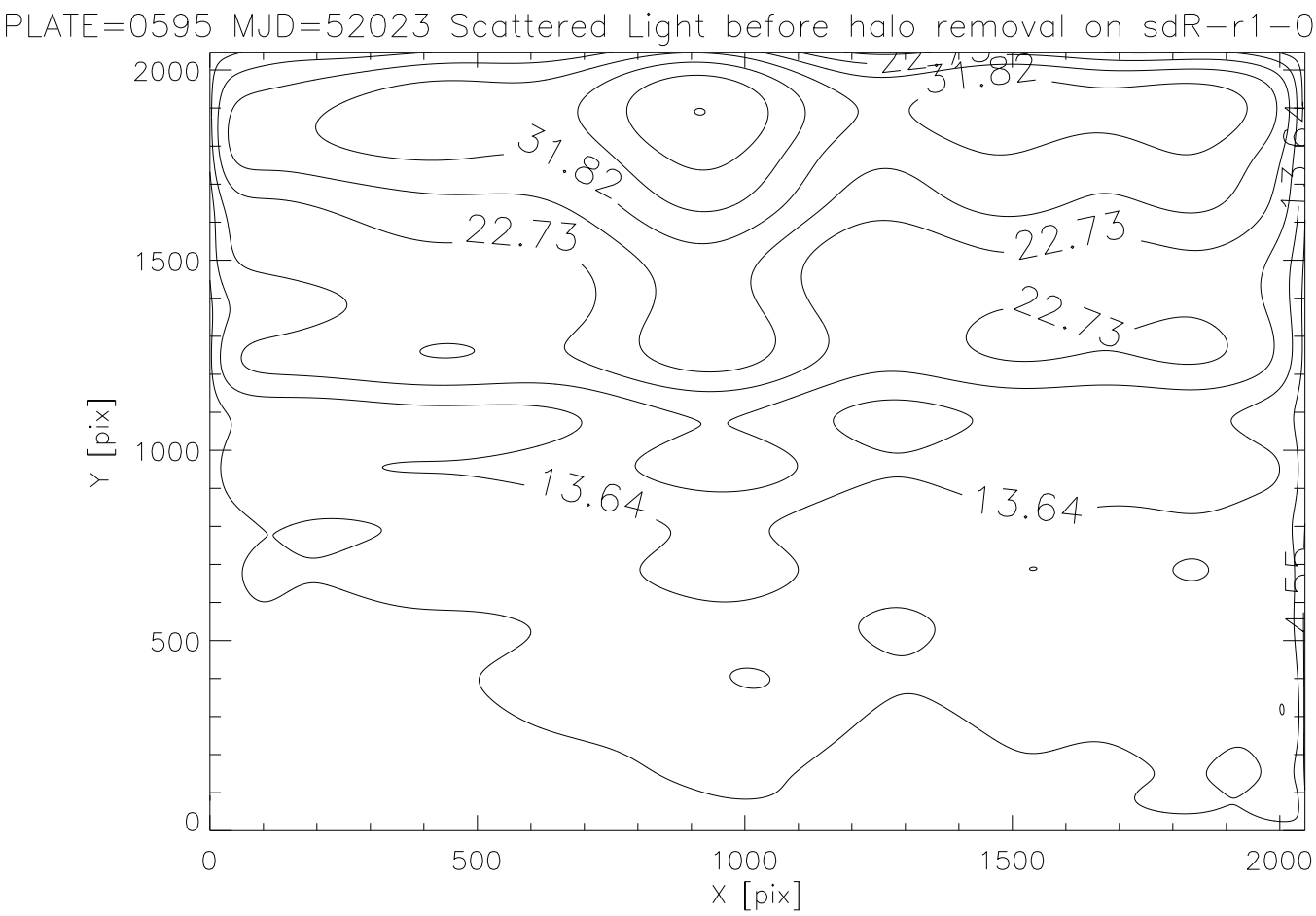

PLATE=0595 MJD=52023 sdR-r1-00009699.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

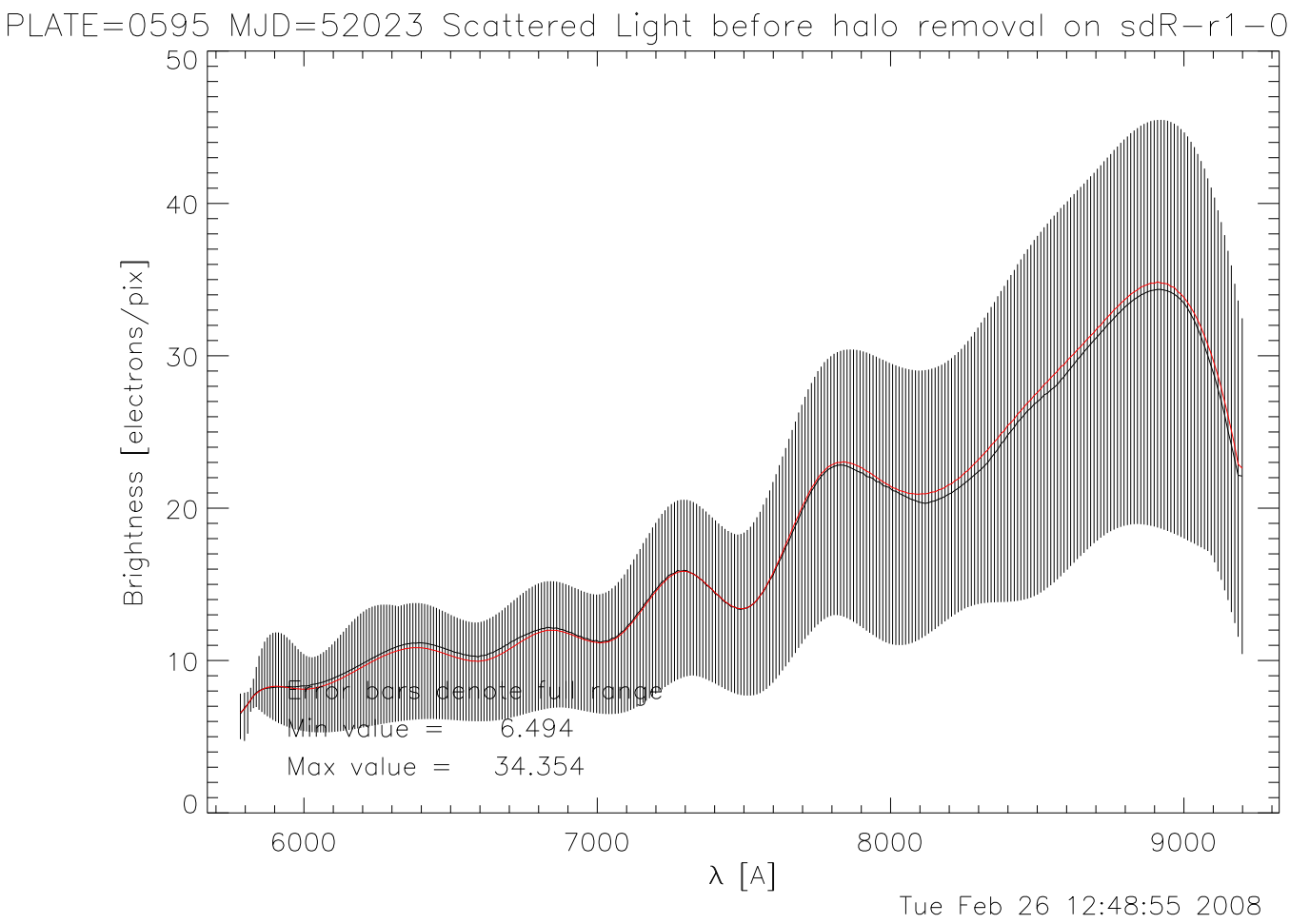

Number of sky fibers = 39
PLATE=0595 MJD=52023 sdR-r1-00009699.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

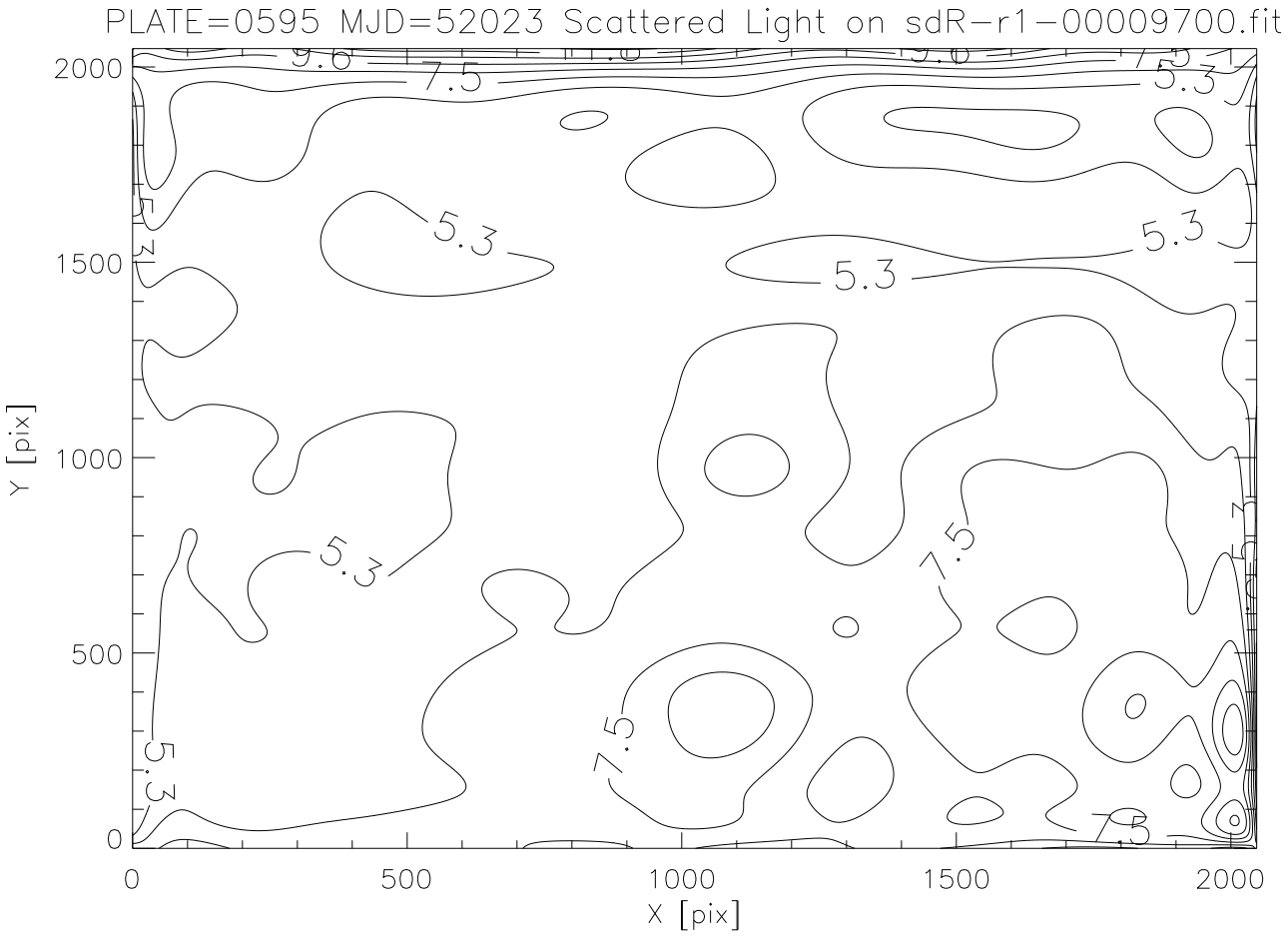

PLATE=0595 MJD=52023 sdR-r1-00009699.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.43 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

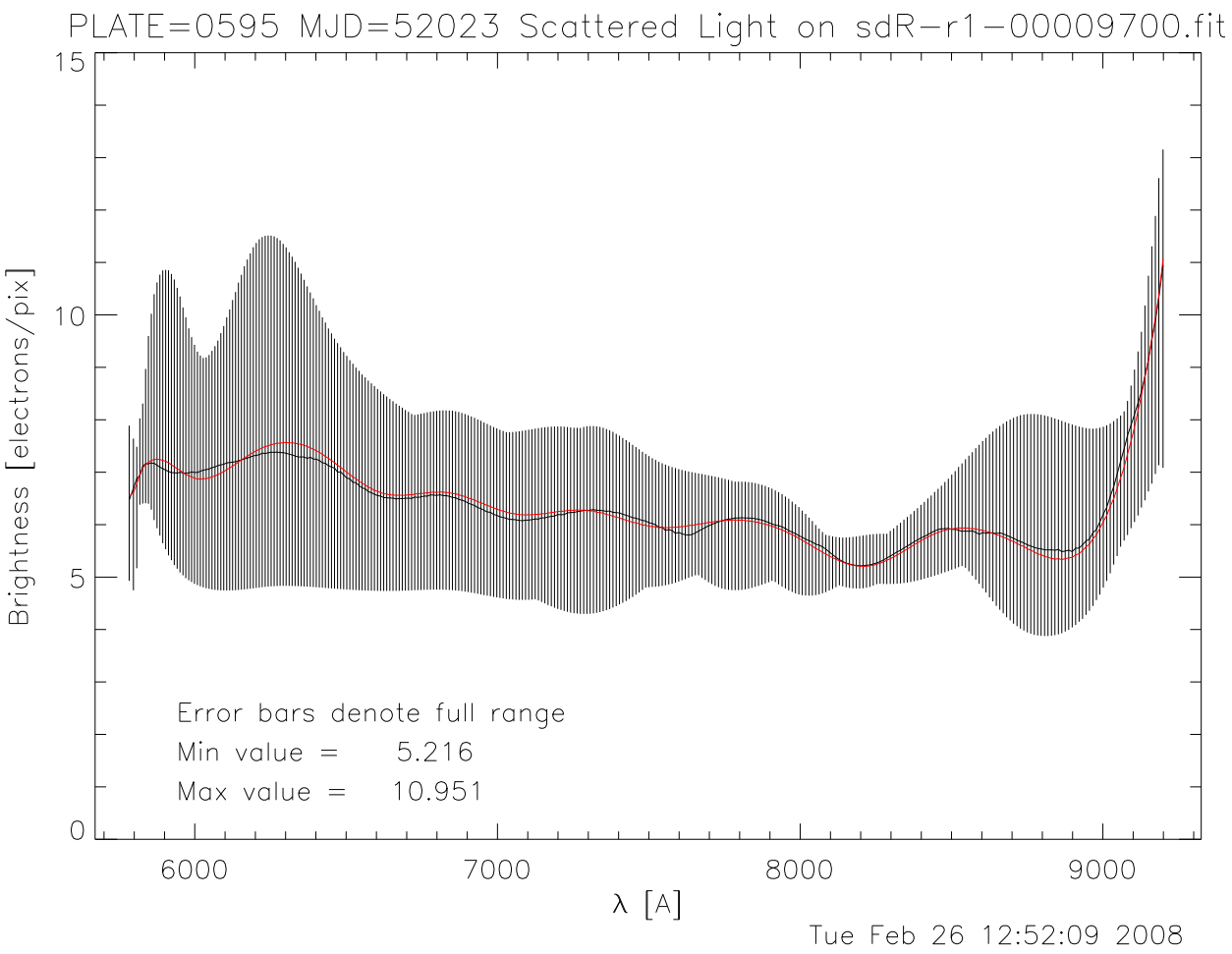

PLATE=0595 MJD=52023 sdR-r1-00009699.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.82 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

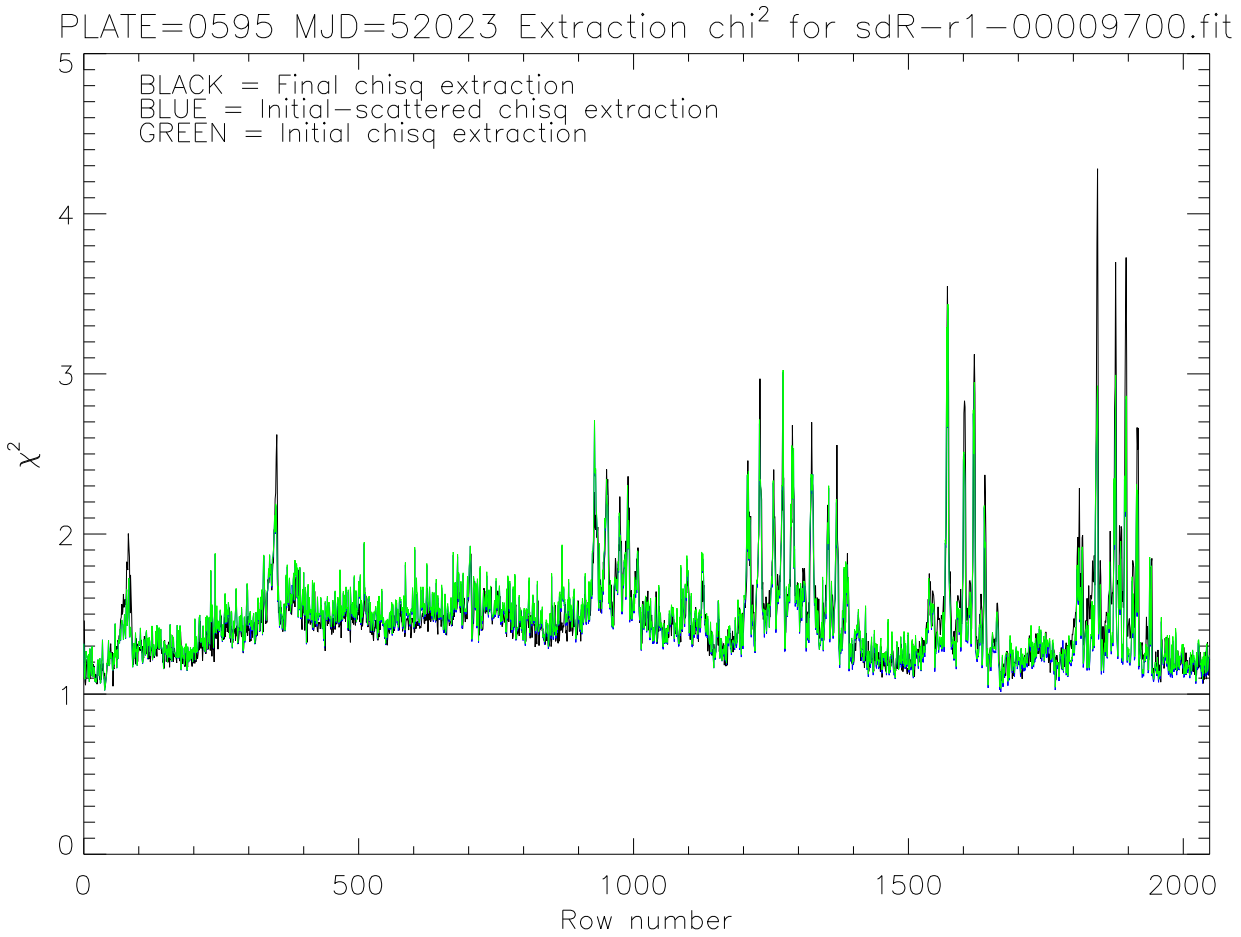

PLATE=0595 MJD=52023 Fiber−Flats for sdR−r1−00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.028
Max value = 1.328
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 12:47:57 2008

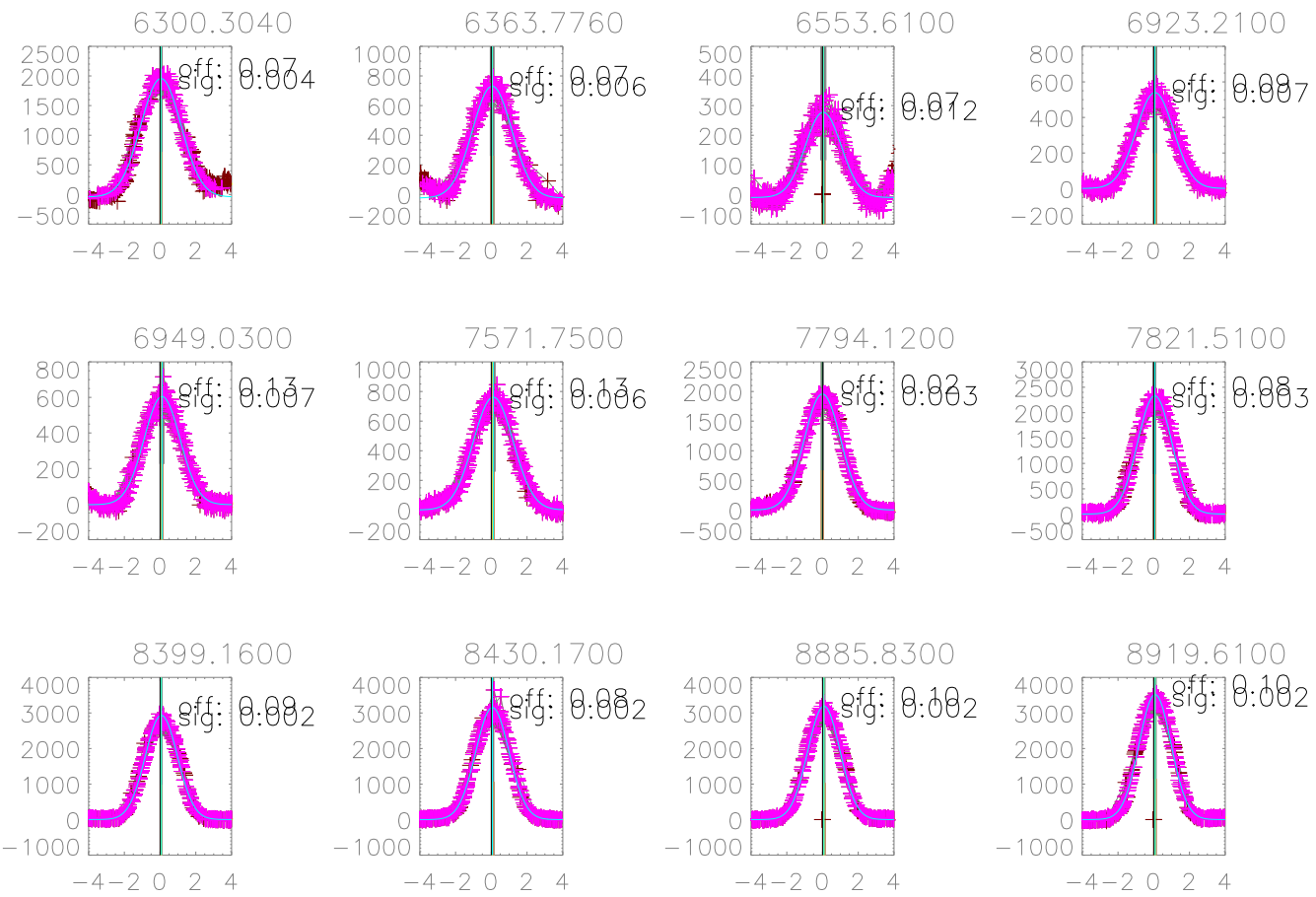

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-r1-00009700.fi
31.82
31.82
22.73
22.73
22.73
13.64
13.64
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

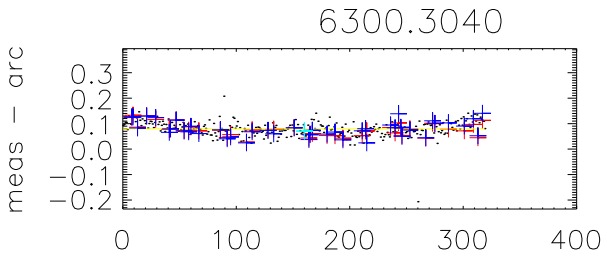

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-r1-00009700.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.494
Max value = 34.354
Tue Feb 26 12:48:55 2008

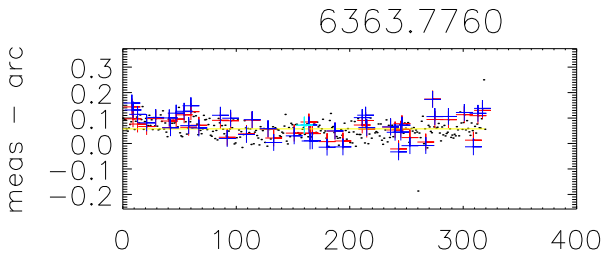

PLATE=0595 MJD=52023 Scattered Light on sdR-r1-00009700.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.6
7.5
5.3

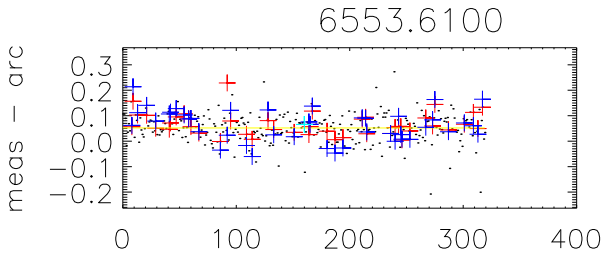

PLATE=0595 MJD=52023 Scattered Light on sdR-r1-00009700.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.216
Max value = 10.951
Tue Feb 26 12:52:09 2008

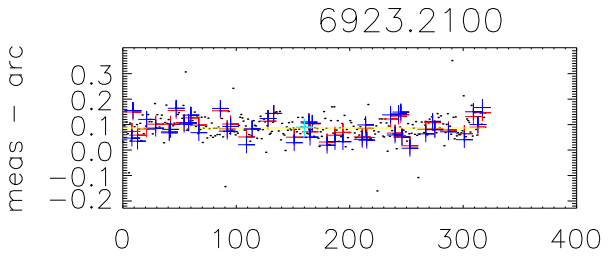

PLATE=0595 MJD=52023 Extraction chi^2 for sdR−r1−00009700.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

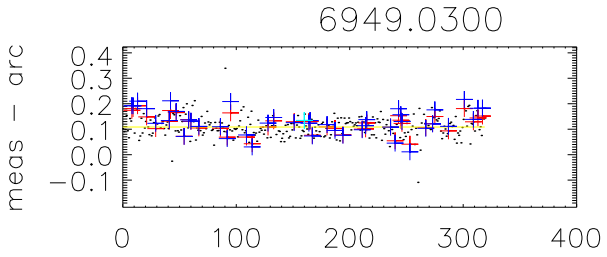

6300.3040
off: 0.07
sig: 0.004
6363.7760
off: 0.07
sig: 0.006
6553.6100
off: 0.07
sig: 0.012
6923.2100
off: 0.09
sig: 0.007
6949.0300
off: 0.13
sig: 0.007
7571.7500
off: 0.13
sig: 0.006
7794.1200
off: 0.02
sig: 0.003
7821.5100
off: 0.08
sig: 0.003
8399.1600
off: 0.09
sig: 0.002
8430.1700
off: 0.08
sig: 0.002
8885.8300
off: 0.10
sig: 0.002
8919.6100
off: 0.10
sig: 0.002

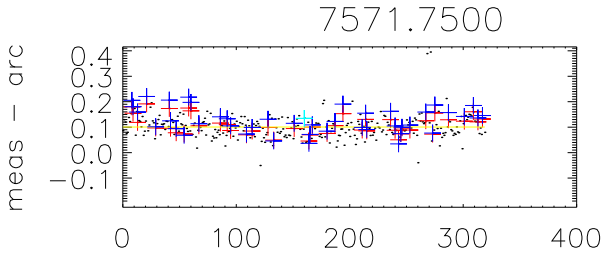

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

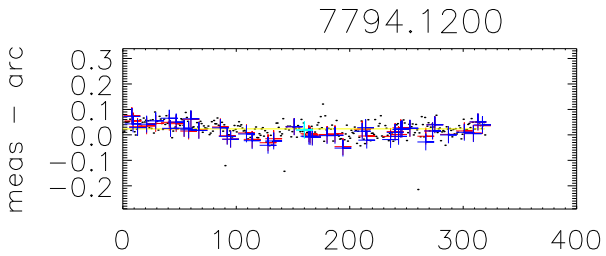

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

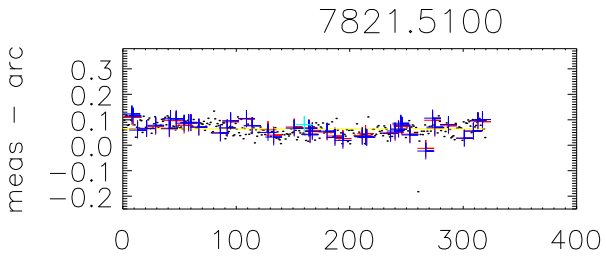

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

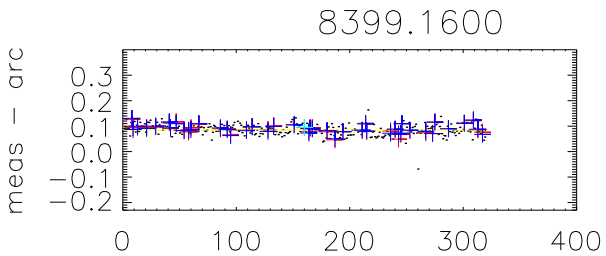

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

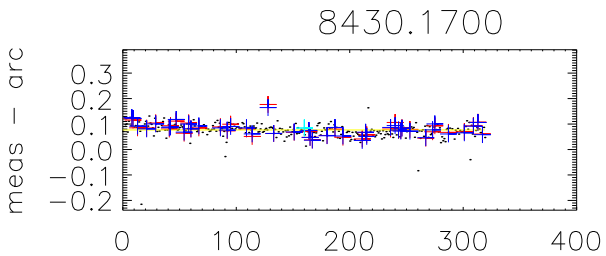

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

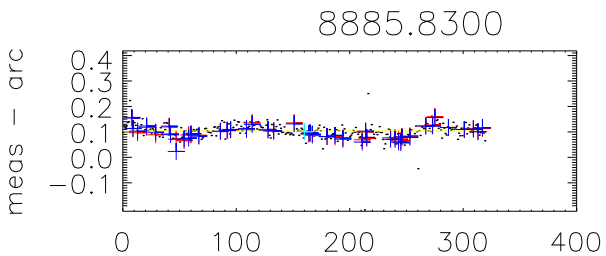

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

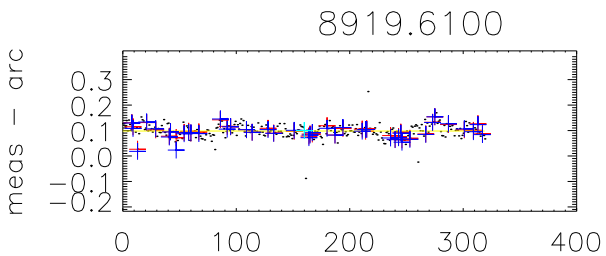

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

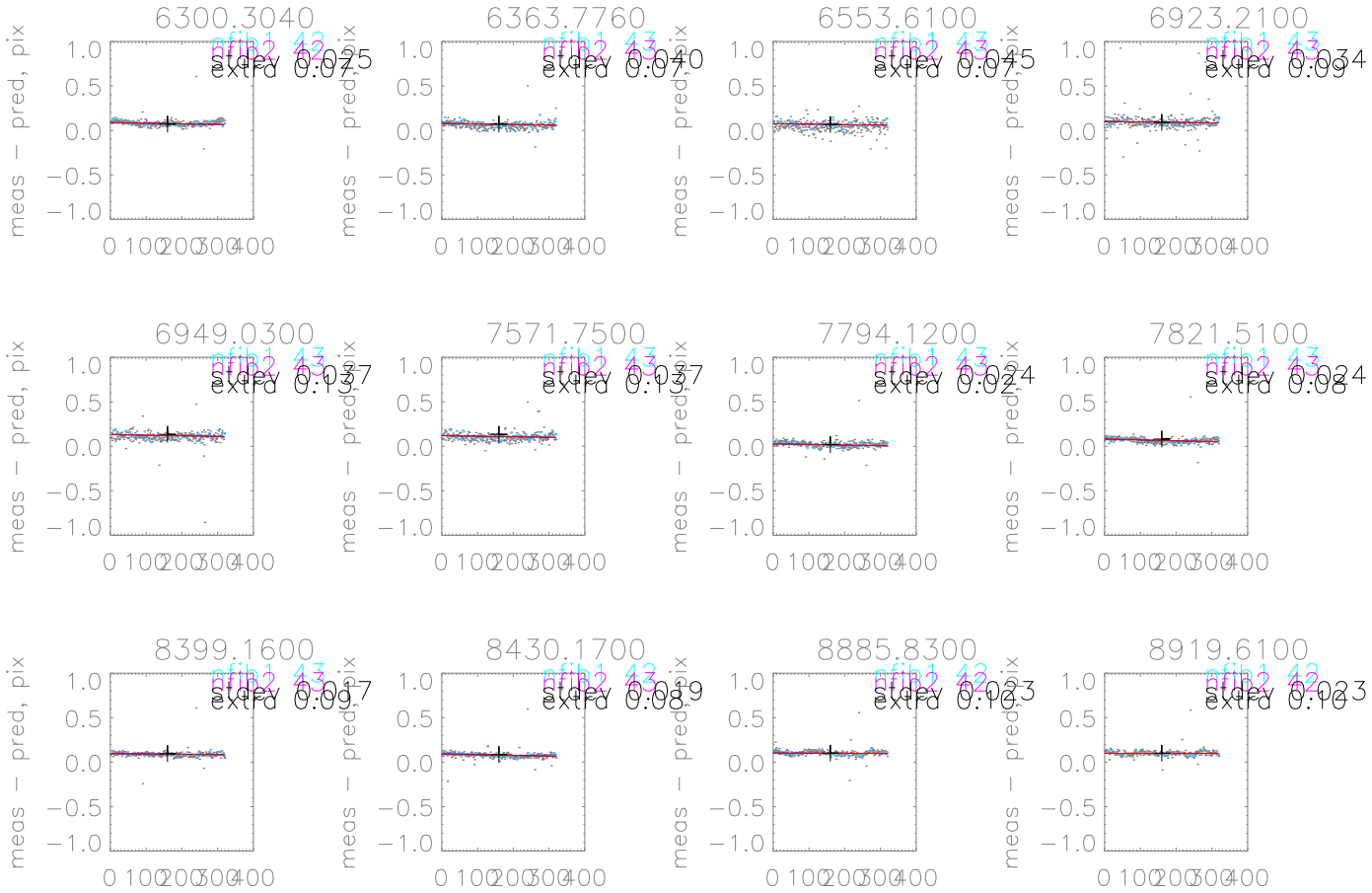

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

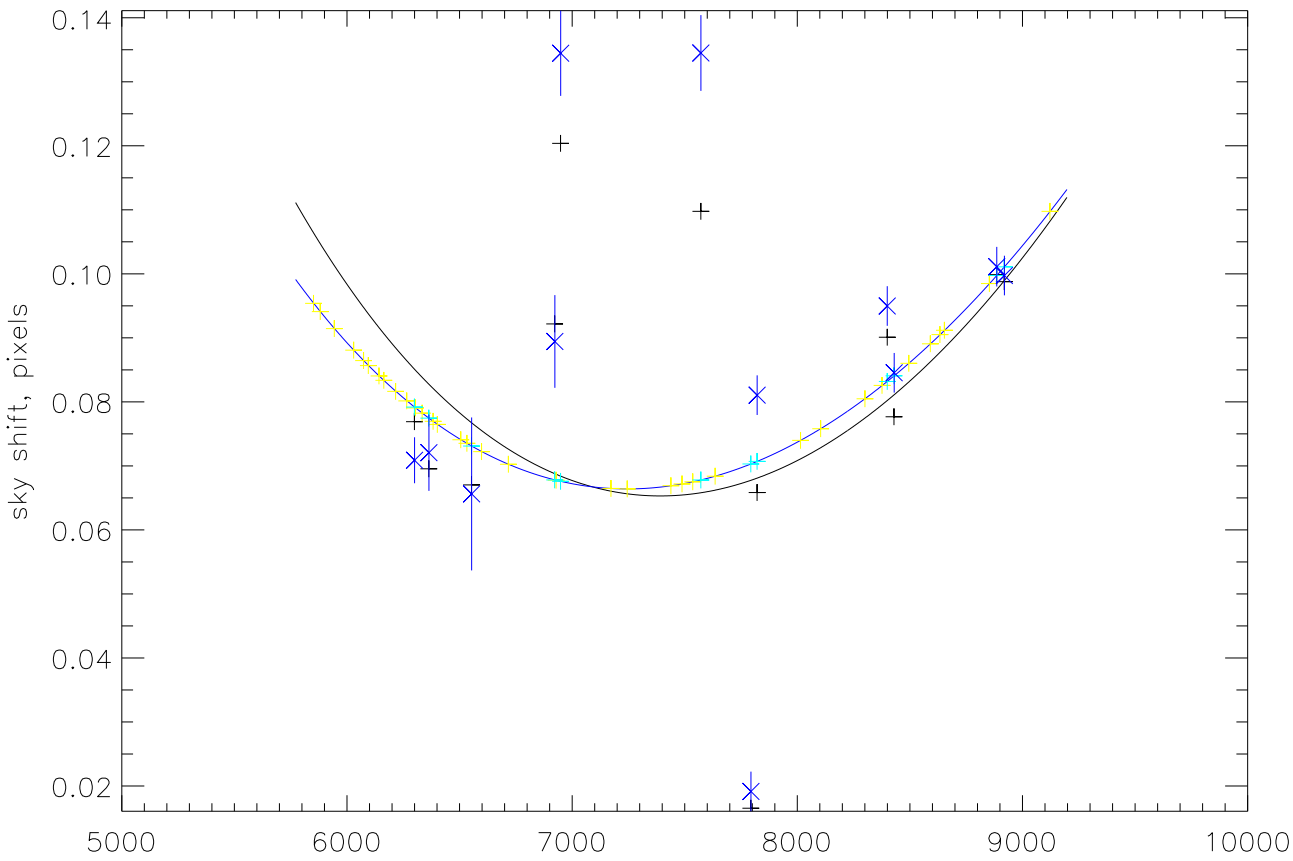

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

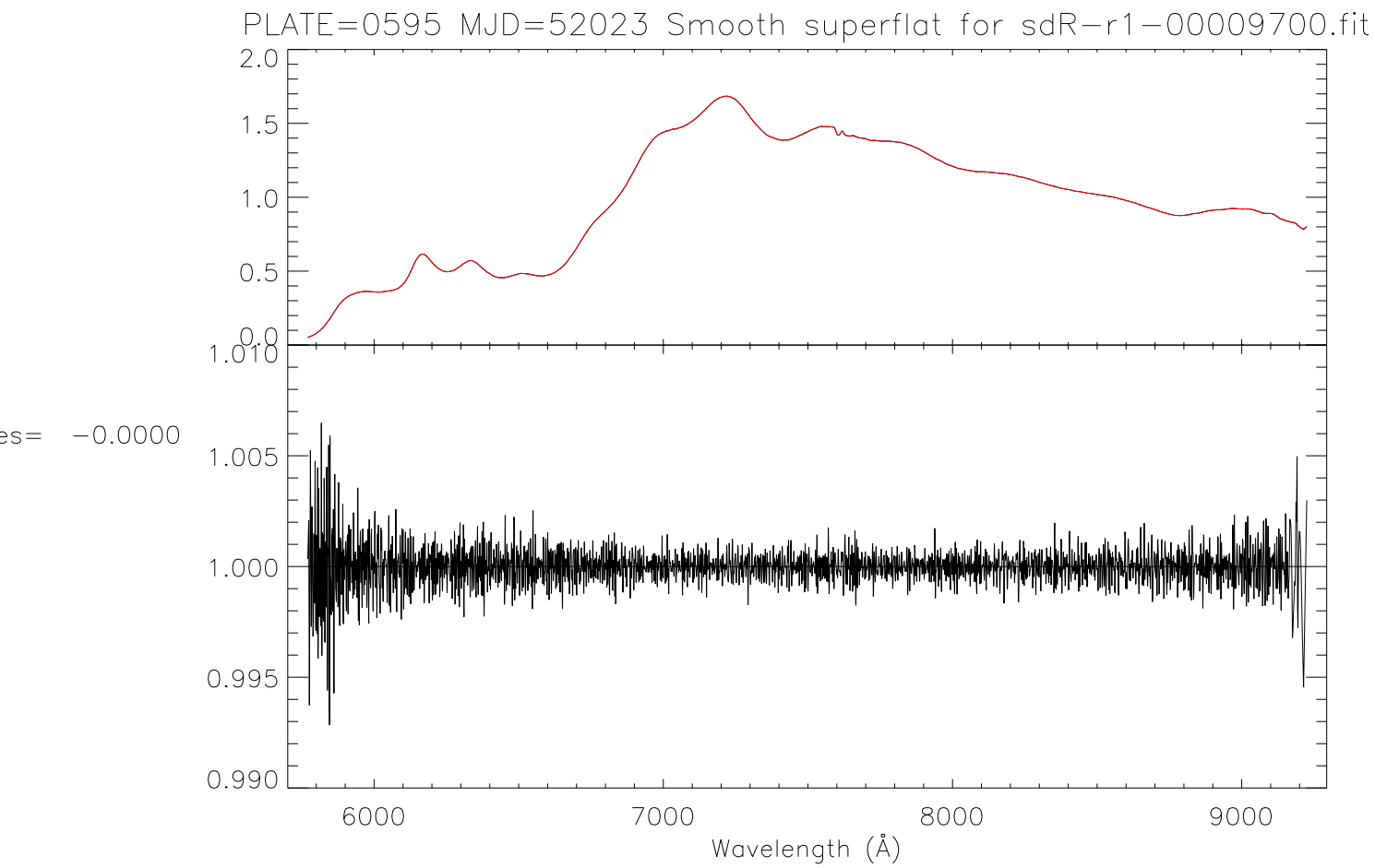

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

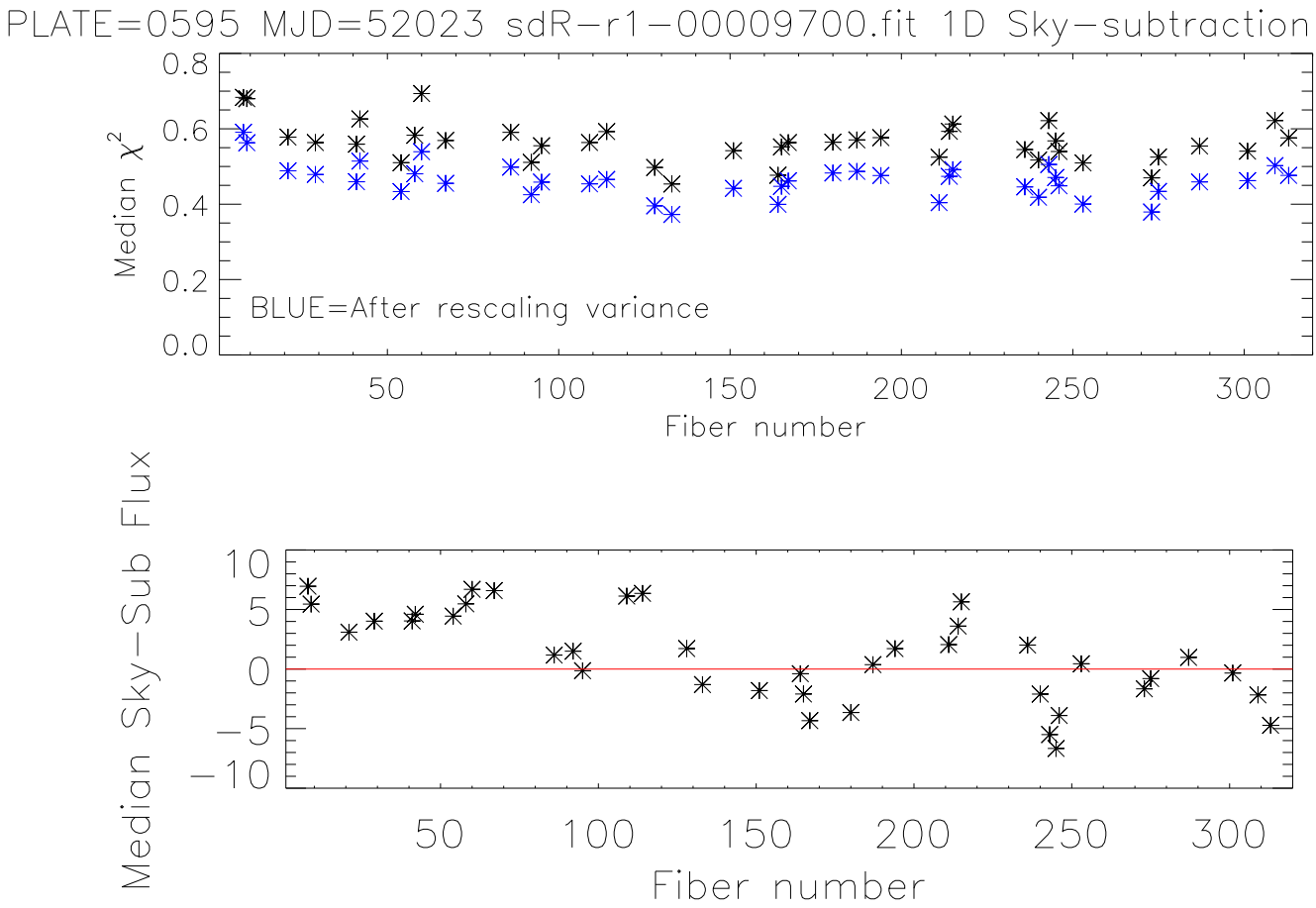

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

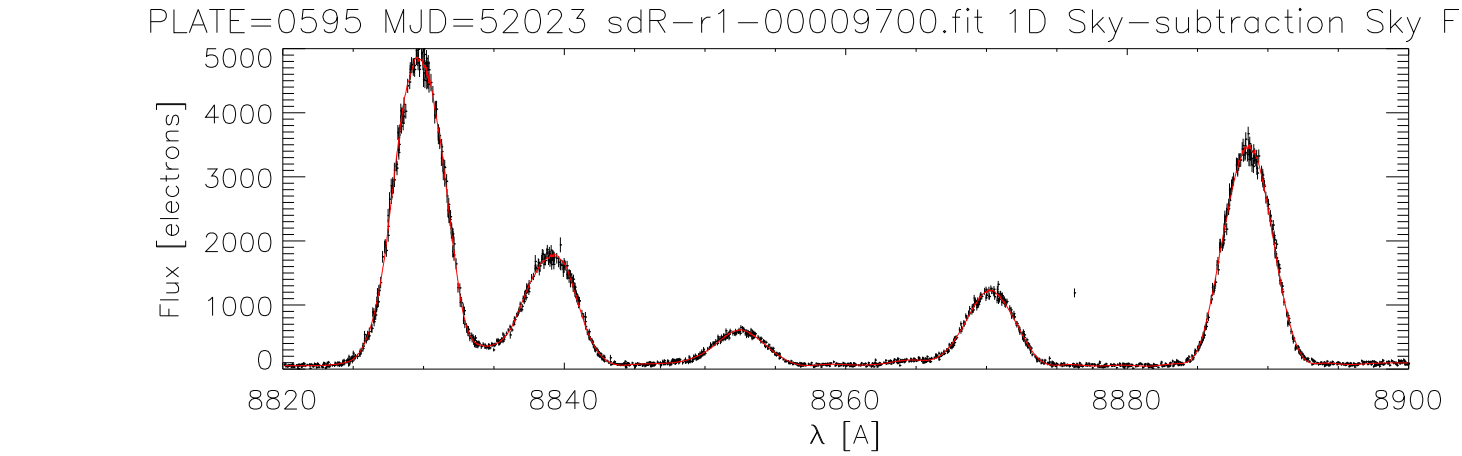

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

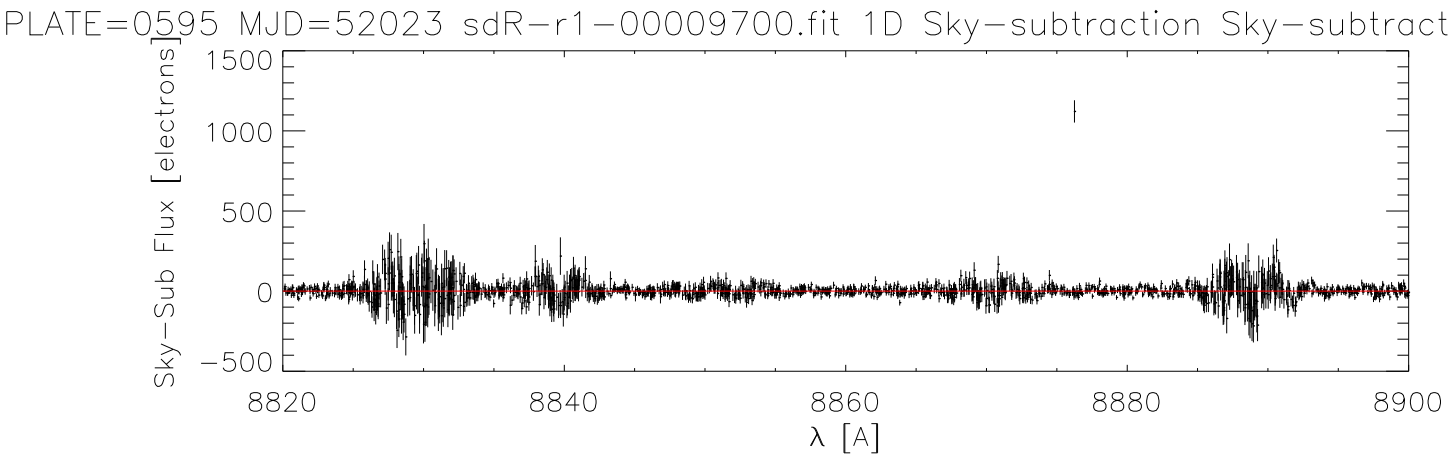

6300.3040
stdev 0.025
extra 0.07
6363.7760
stdev 0.040
extra 0.07
6553.6100
stdev 0.045
extra 0.07
6923.2100
stdev 0.034
extra 0.09
6949.0300
stdev 0.037
extra 0.13
7571.7500
stdev 0.037
extra 0.13
7794.1200
stdev 0.024
extra 0.02
7821.5100
stdev 0.024
extra 0.08
8399.1600
stdev 0.047
extra 0.09
8430.1700
stdev 0.049
extra 0.08
8885.8300
stdev 0.023
extra 0.10
8919.6100
stdev 0.023
extra 0.10
meas − pred, pix
mfib1 43
mfib2 42
mfib1 42
mfib2 43

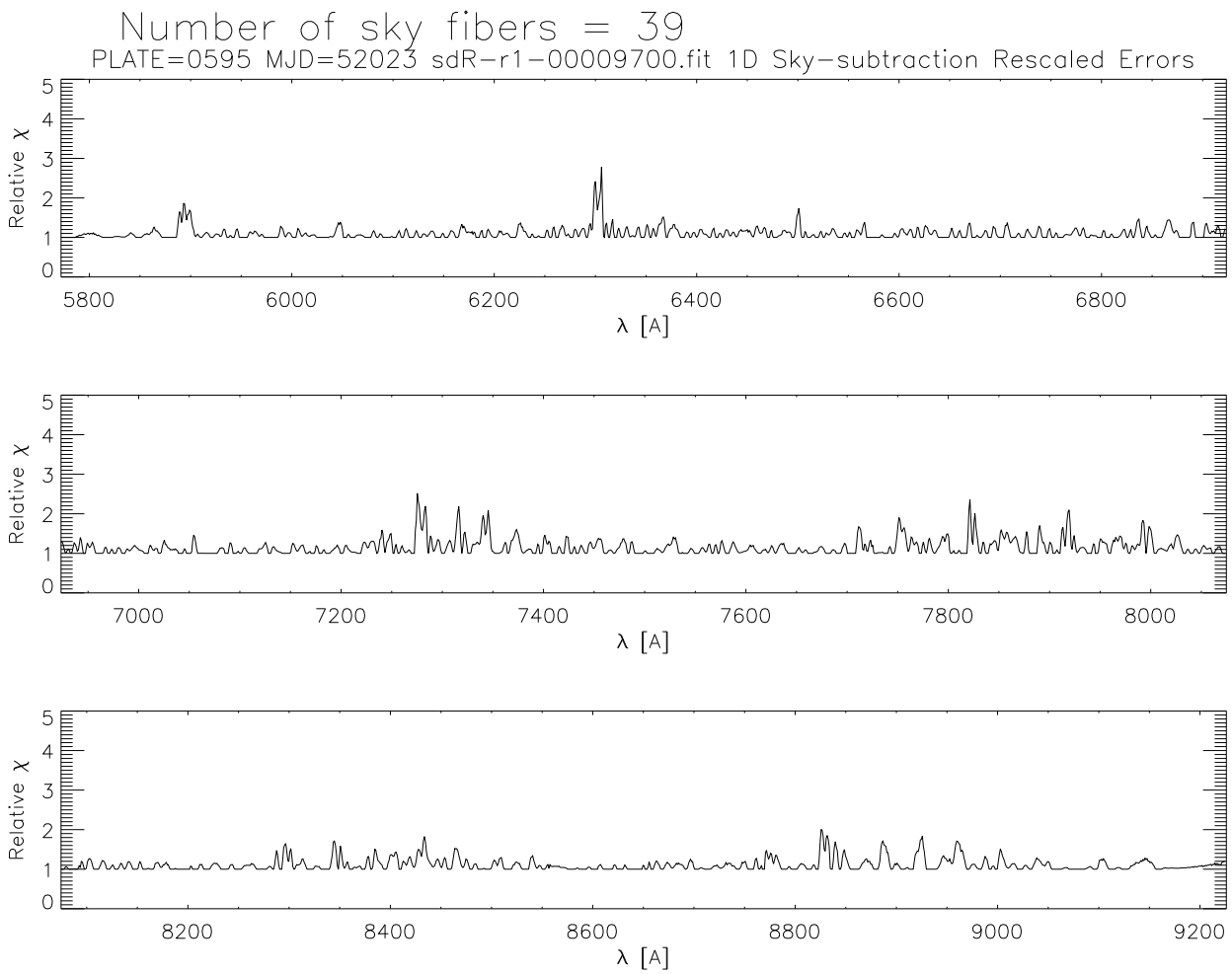

0.14
0.12
0.10
0.08
0.06
0.04
0.02
sky shift, pixels
5000
6000
7000
8000
9000
10000

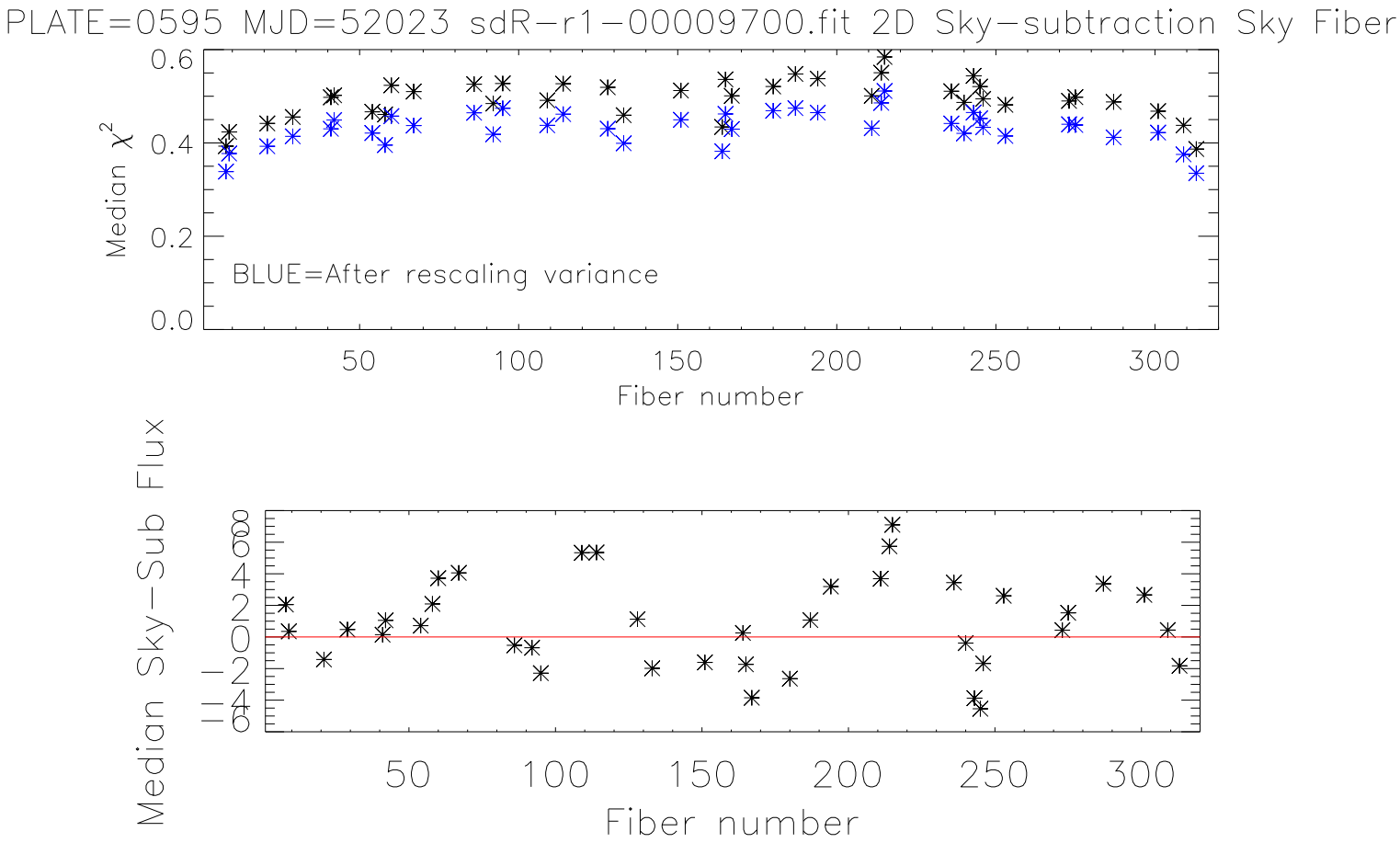

PLATE=0595 MJD=52023 Smooth superflat for sdR-r1-00009700.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

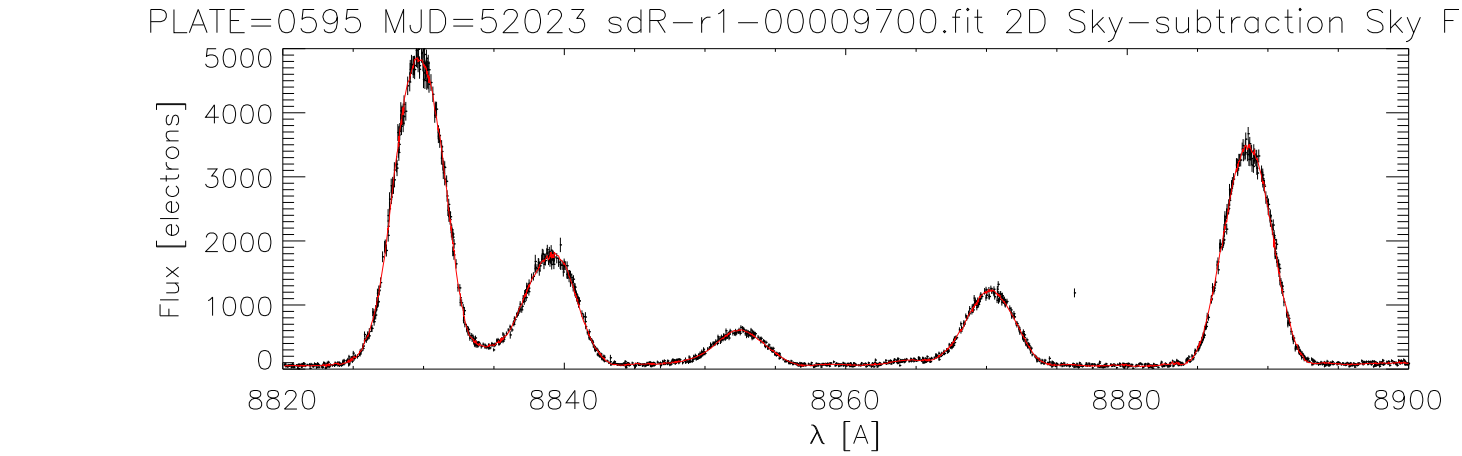

PLATE=0595 MJD=52023 sdR-r1-00009700.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

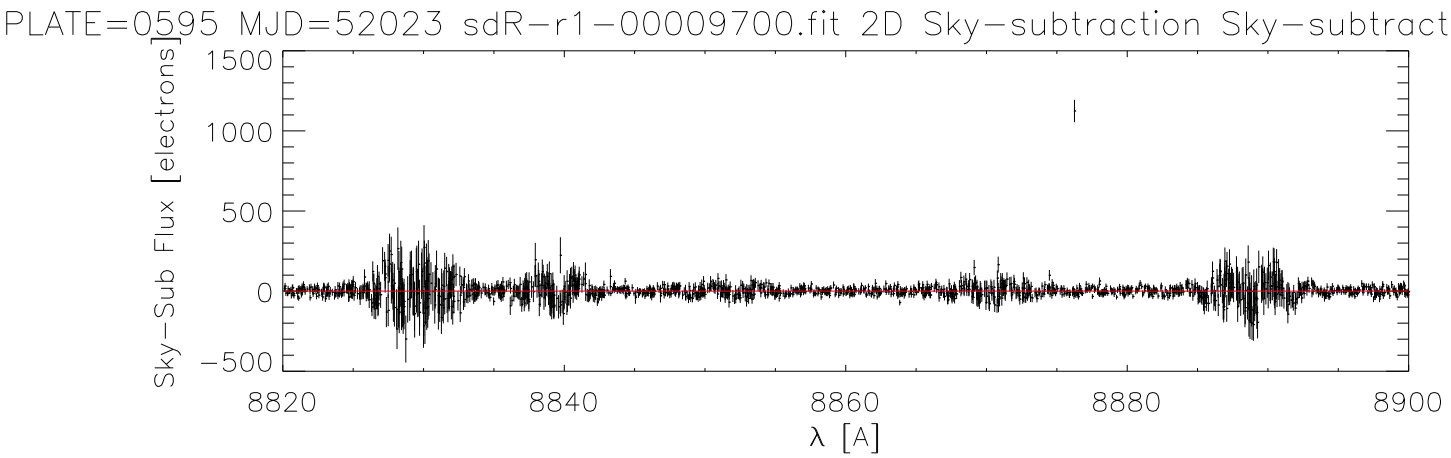

PLATE=0595 MJD=52023 sdR-r1-00009700.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

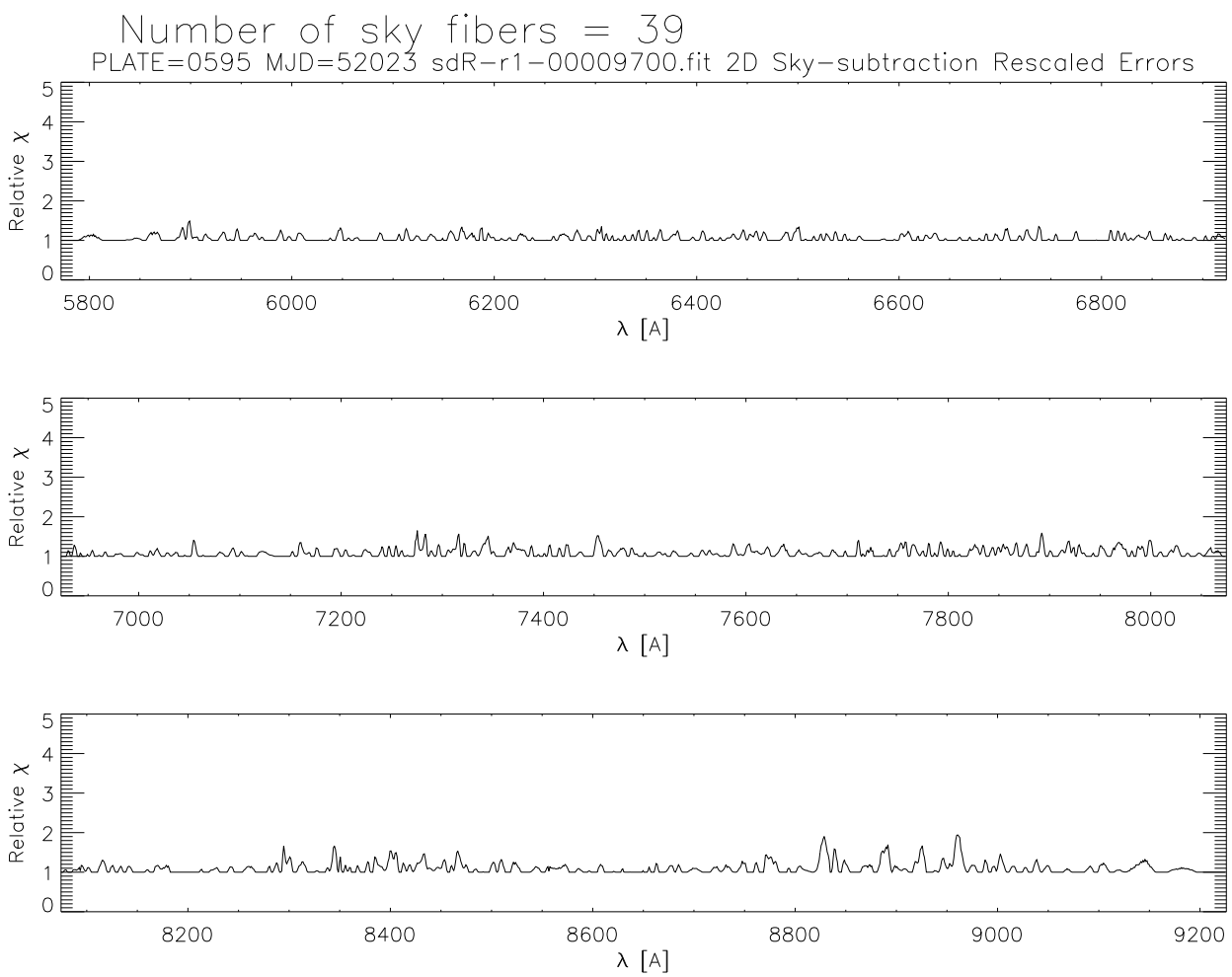

PLATE=0595 MJD=52023 sdR-r1-00009700.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

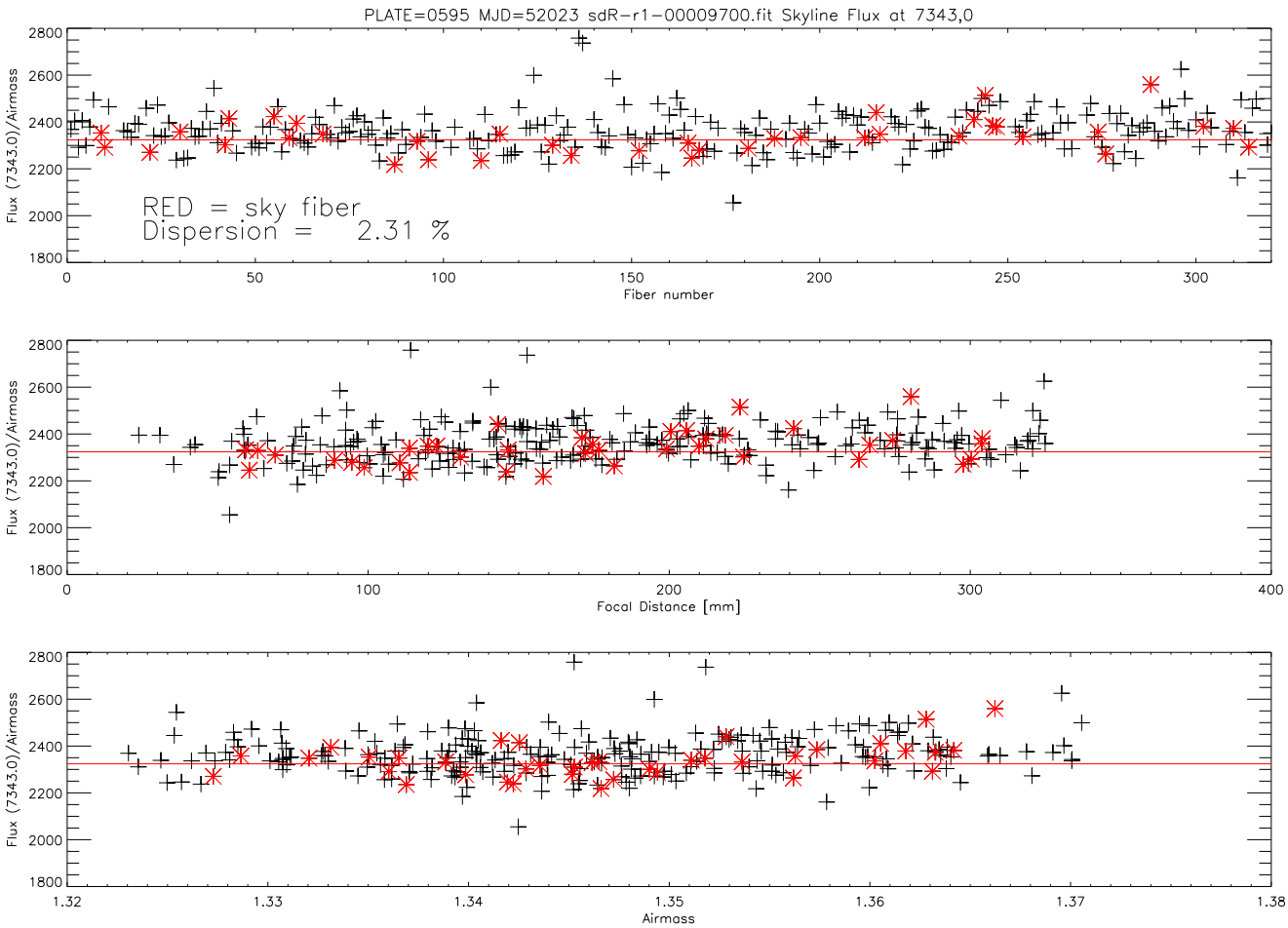

Number of sky fibers = 39
PLATE=0595 MJD=52023 sdR-r1-00009700.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

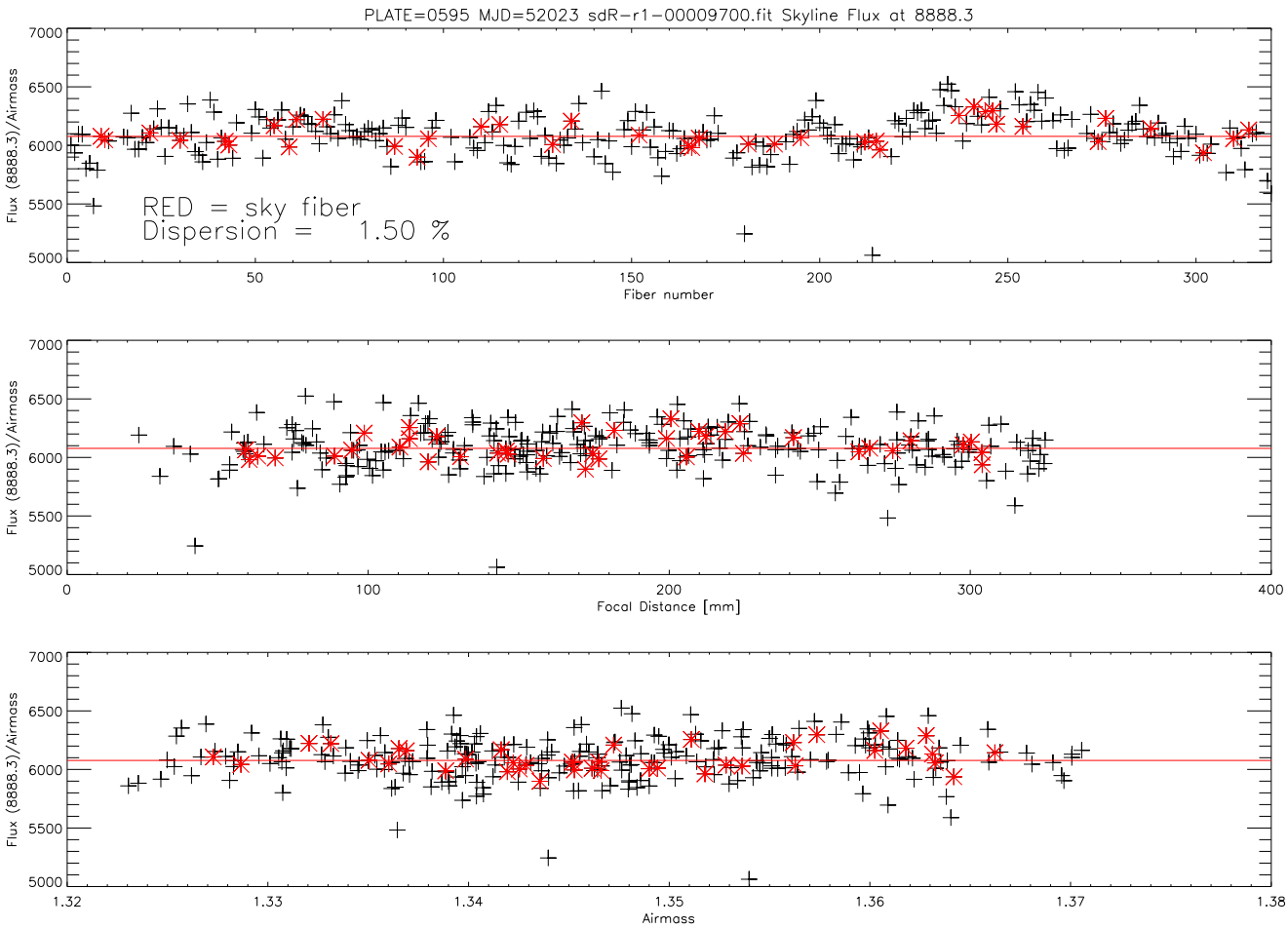

PLATE=0595 MJD=52023 sdR-r1-00009700.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-11
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

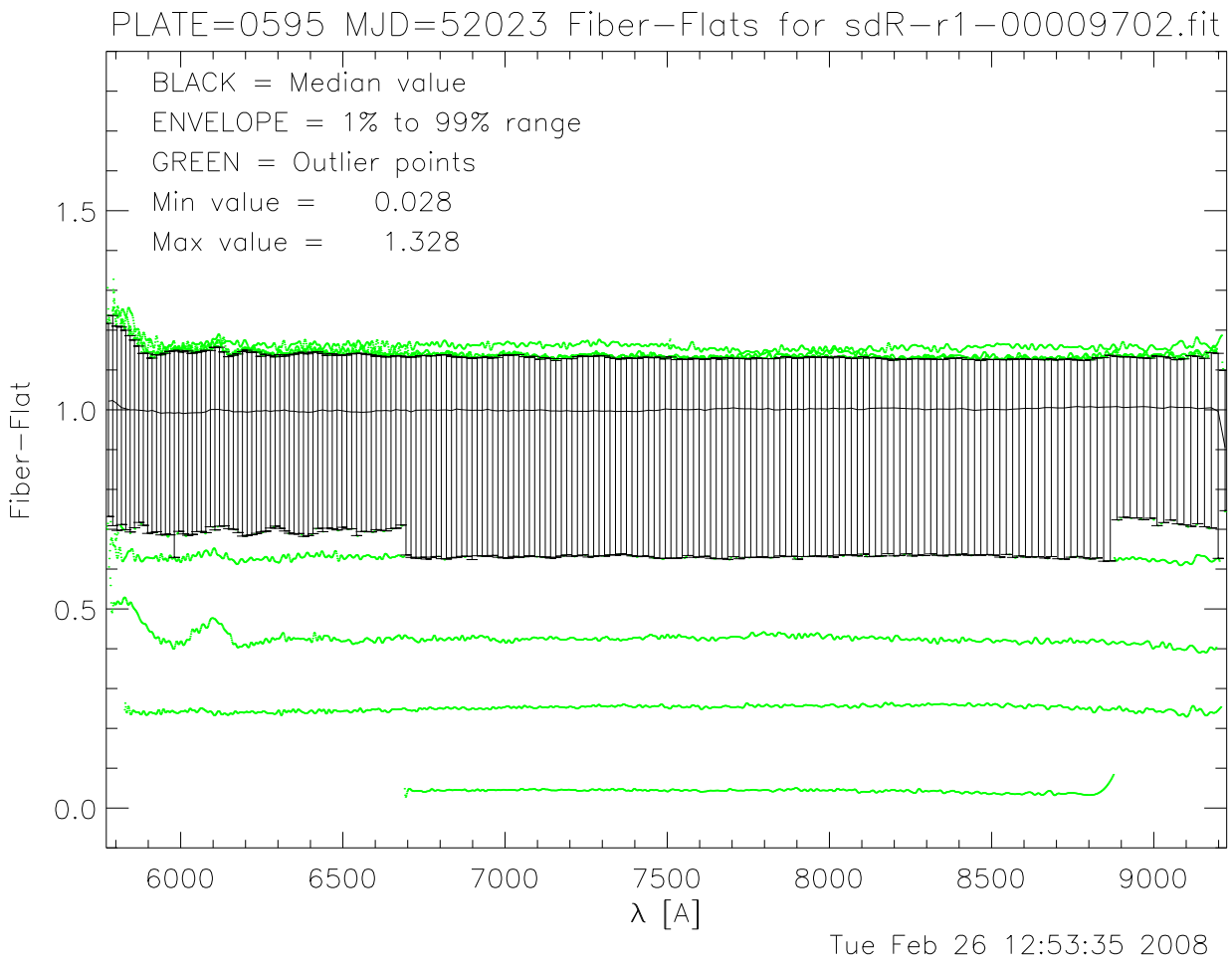

PLATE=0595 MJD=52023 sdR-r1-00009700.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

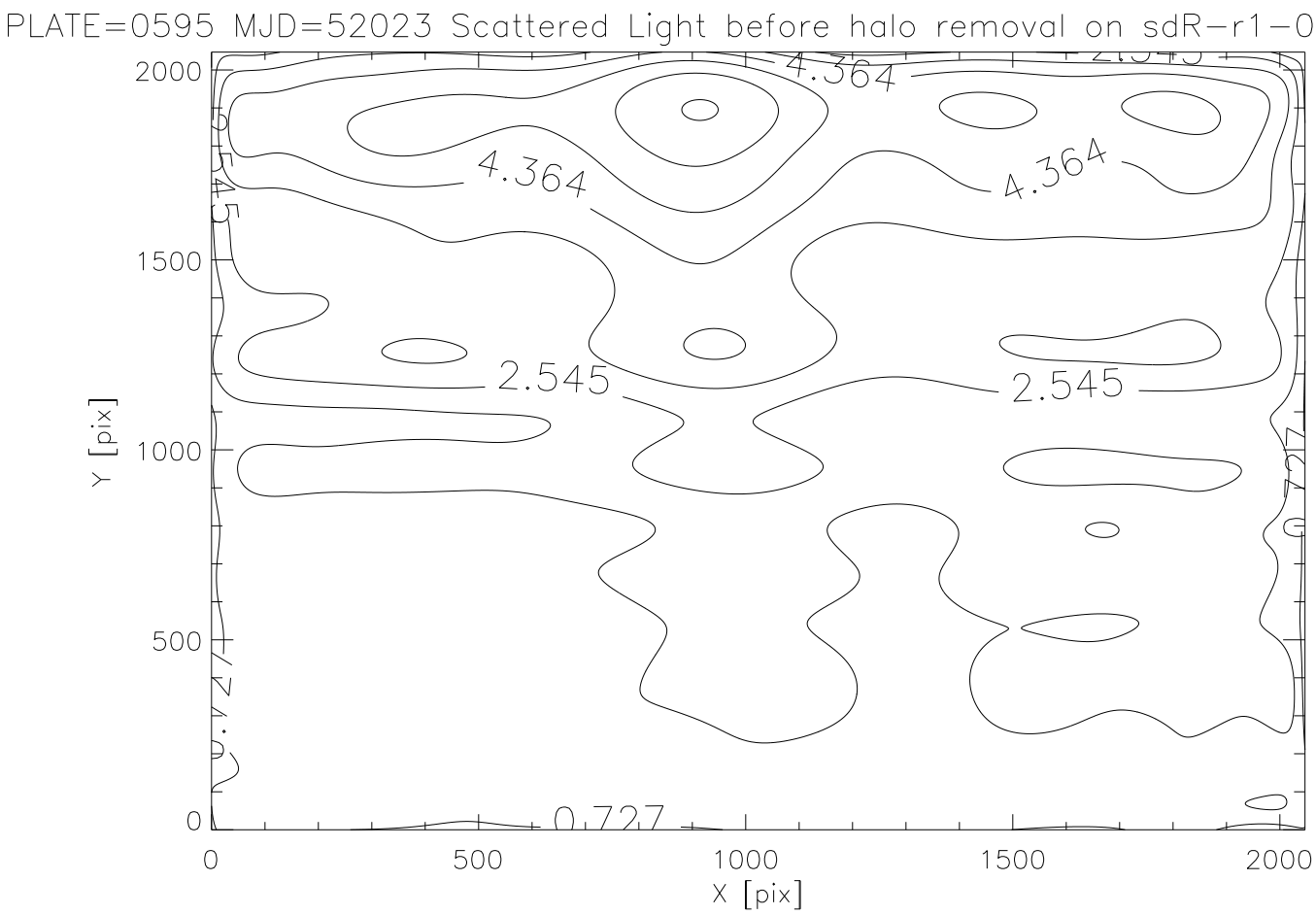

PLATE=0595 MJD=52023 sdR-r1-00009700.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

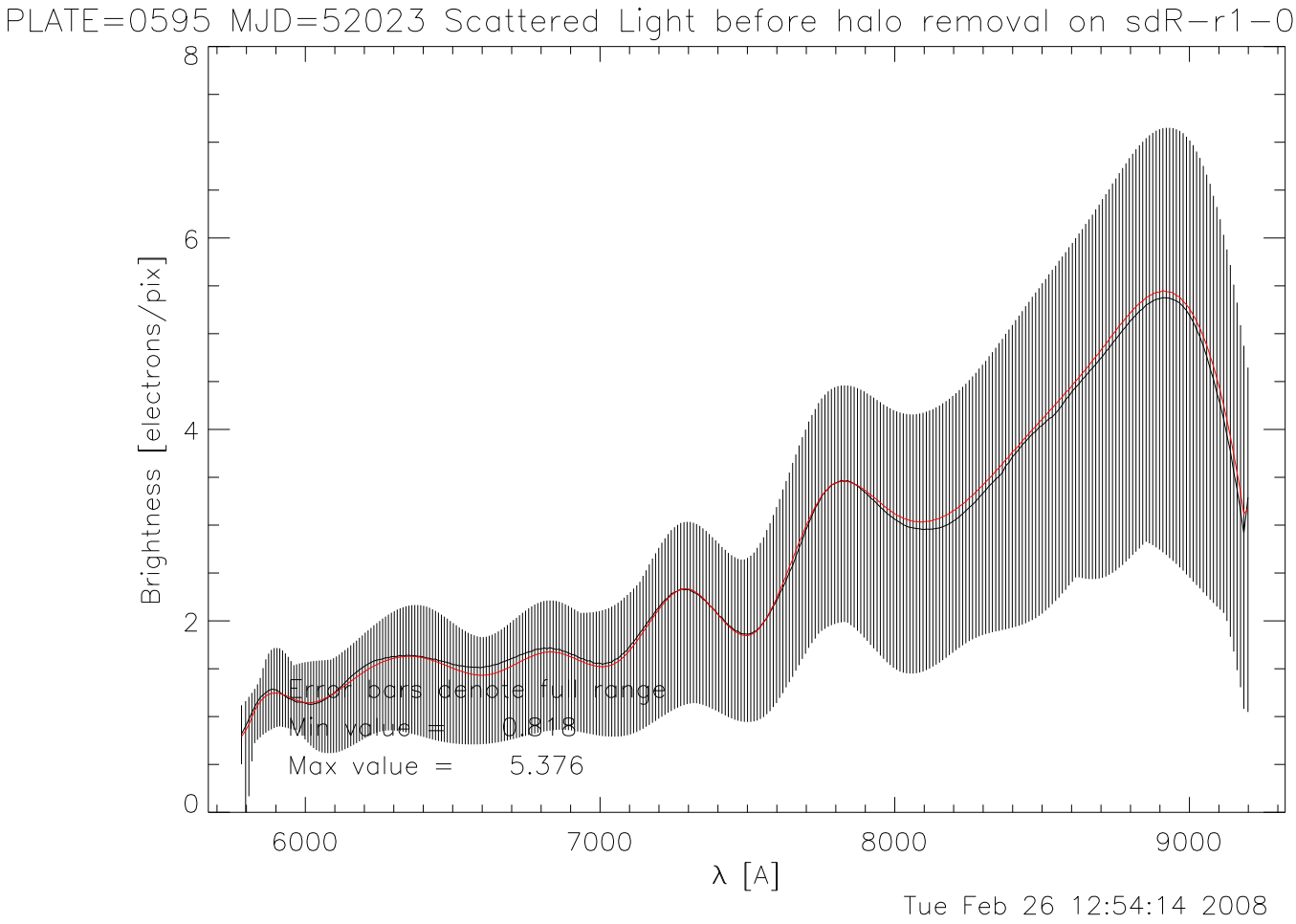

Number of sky fibers = 39
PLATE=0595 MJD=52023 sdR-r1-00009700.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

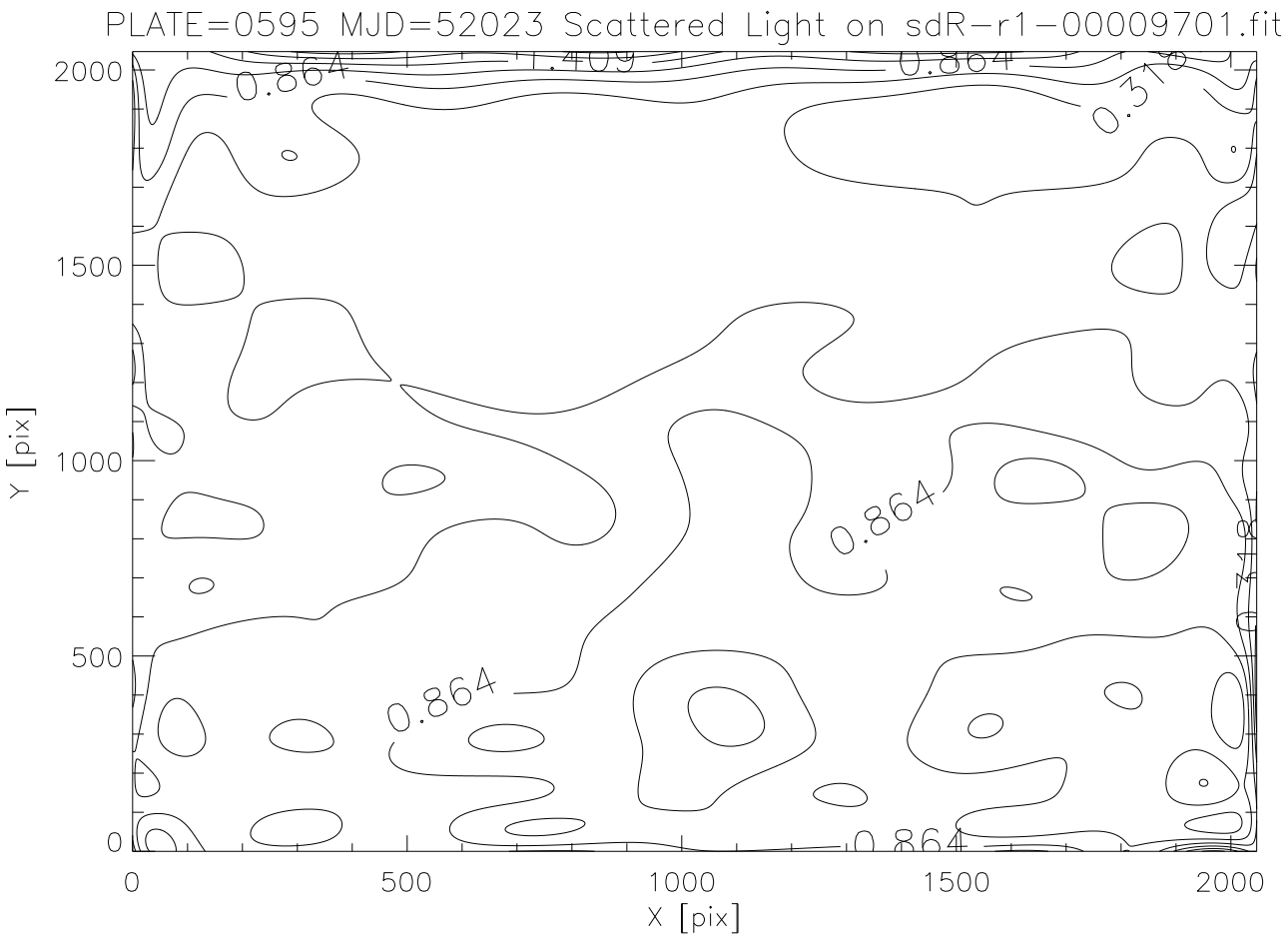

PLATE=0595 MJD=52023 sdR-r1-00009700.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.31 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

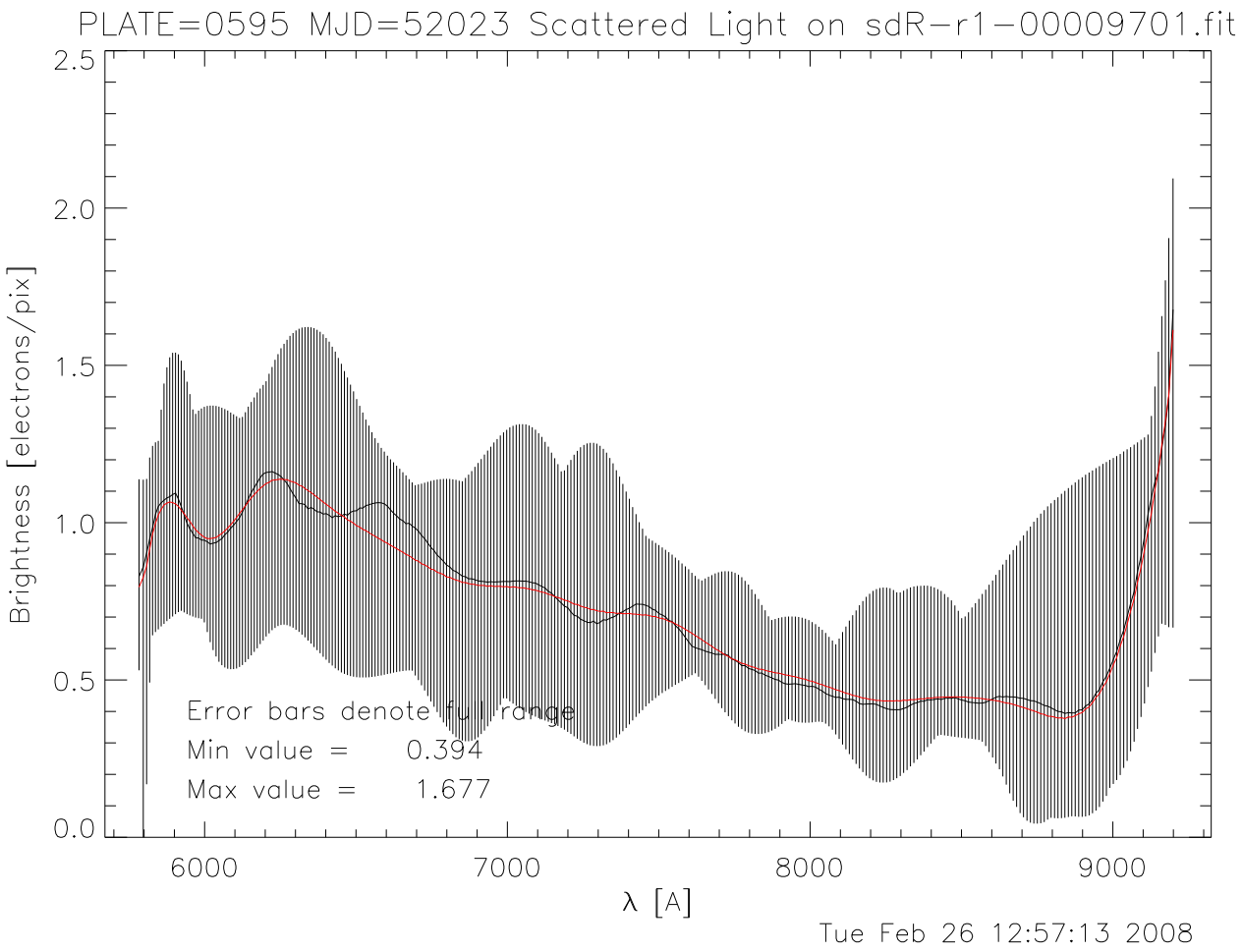

PLATE=0595 MJD=52023 sdR-r1-00009700.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.50 %
Fiber number
Focal Distance [mm]
Airmass

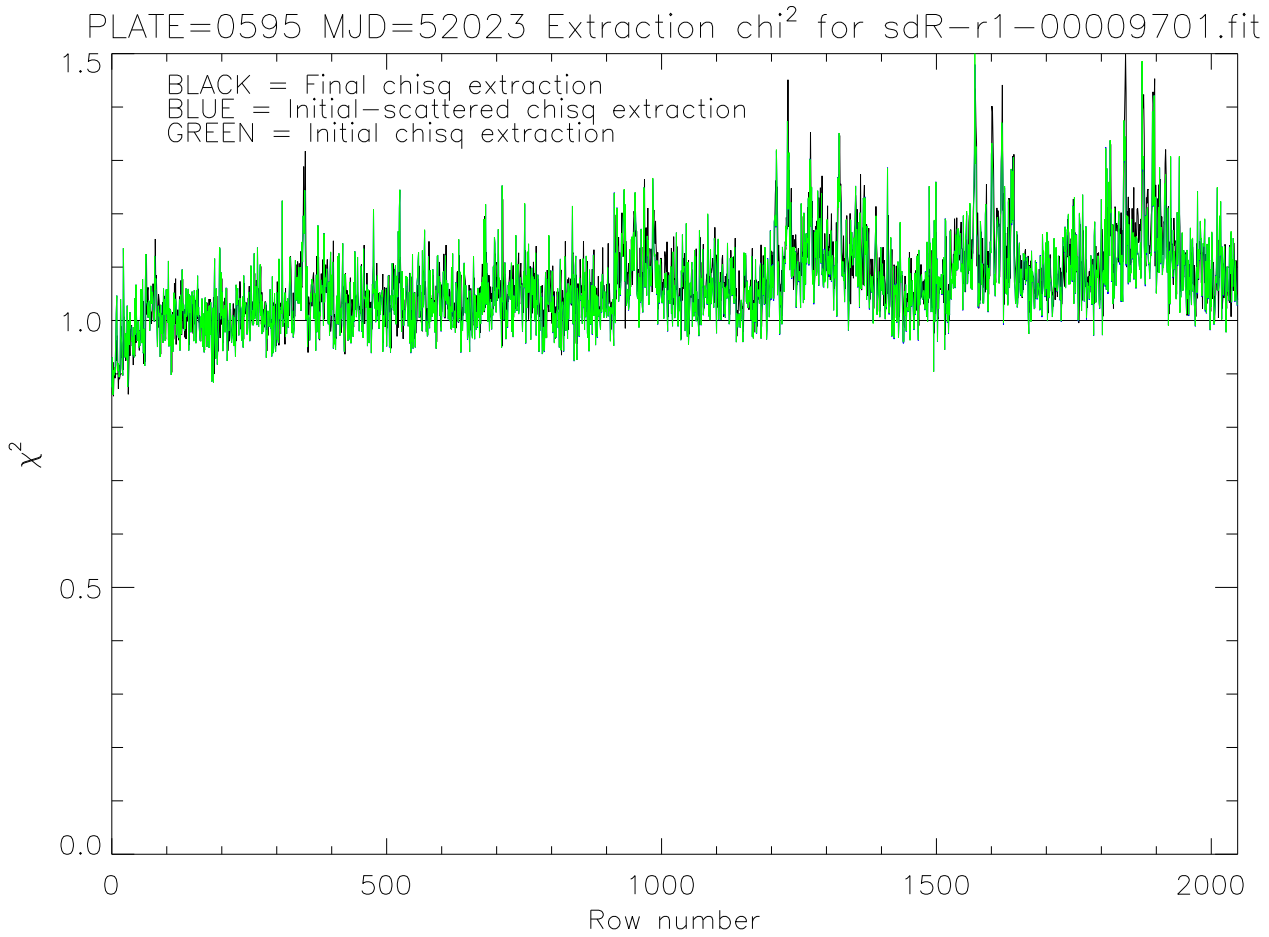

PLATE=0595 MJD=52023 Fiber−Flats for sdR−r1−00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.028
Max value = 1.328
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 12:53:35 2008

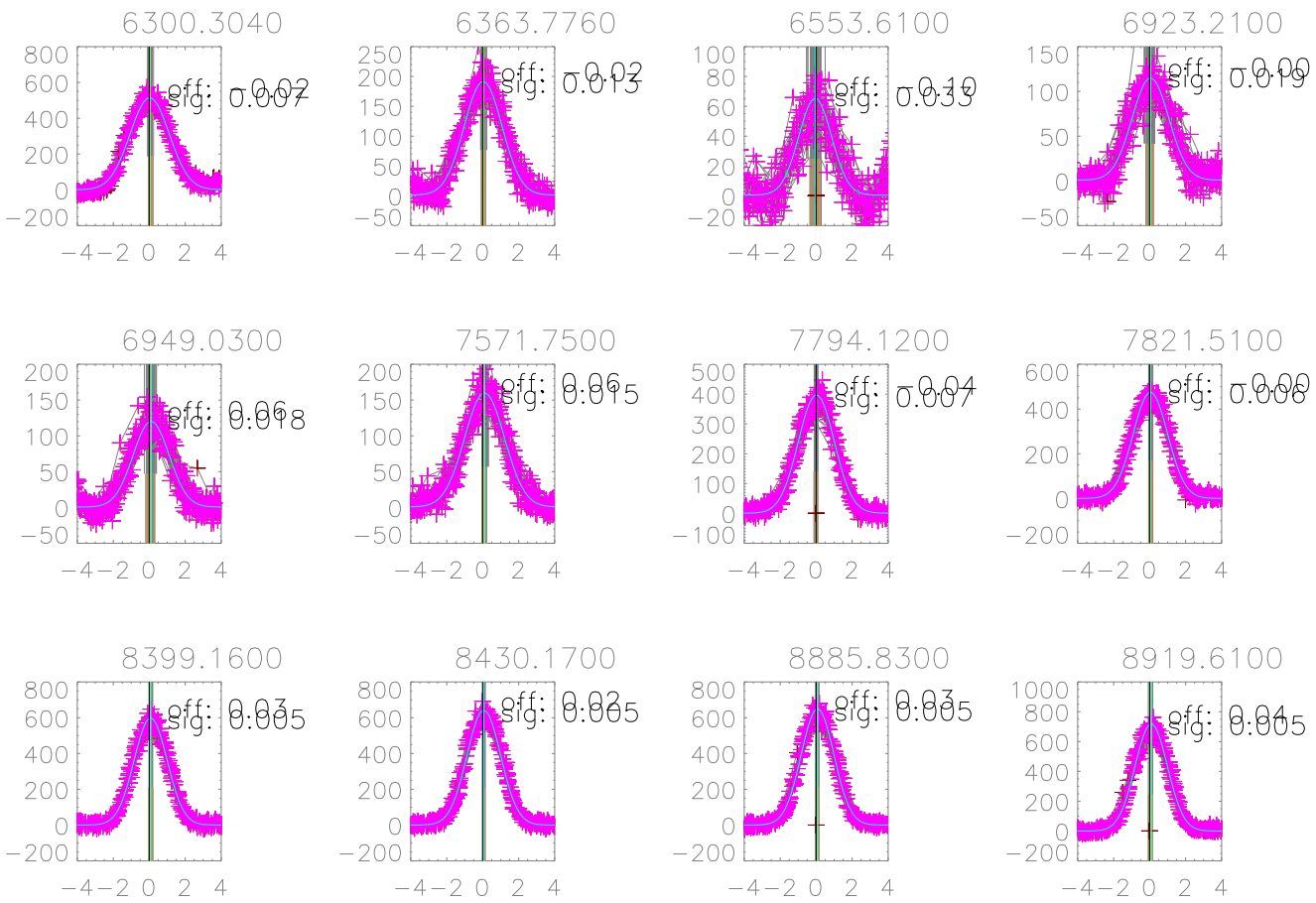

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-r1-00009701.fi
4.364
4.364
4.364
2.545
2.545
2.545
0.727
0.727
0.727
0
500
1000
1500
2000
Y [pix]
X [pix]

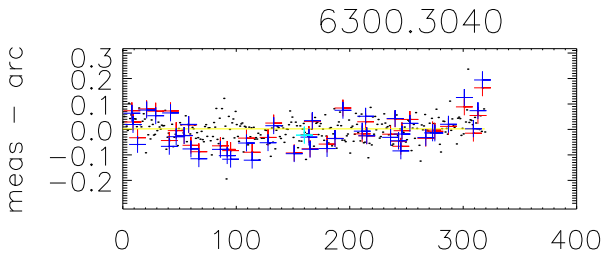

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-r1-00009701.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.8418
Max value = 5.376
Tue Feb 26 12:54:14 2008

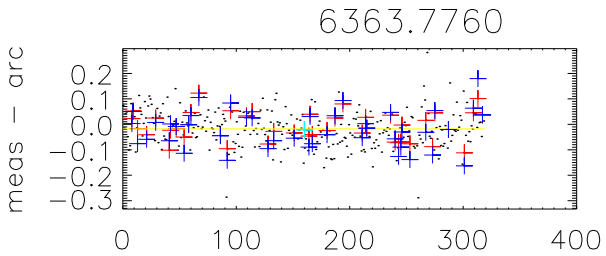

PLATE=0595 MJD=52023 Scattered Light on sdR-r1-00009701.fit
0.864
1.409
0.864
0.318
0.864
0.864
0.864
0.341
0
500
1000
1500
2000
Y [pix]
X [pix]

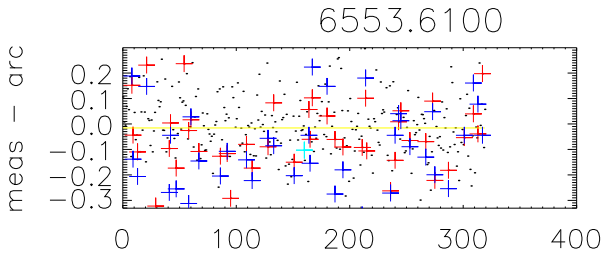

PLATE=0595 MJD=52023 Scattered Light on sdR-r1-00009701.fit
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 0.394
Max value = 1.677
Tue Feb 26 12:57:13 2008

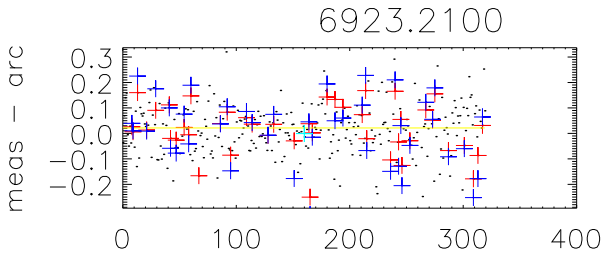

PLATE=0595 MJD=52023 Extraction chi^2 for sdR−r1−00009701.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

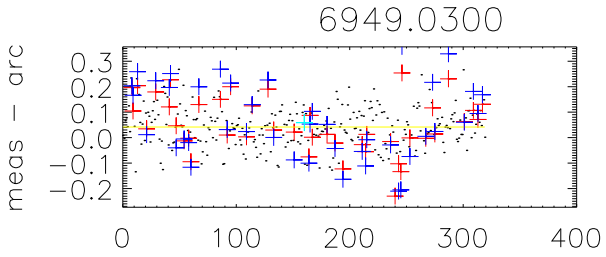

6300.3040
off: −0.02
sig: 0.007
6363.7760
off: −0.02
sig: 0.013
6553.6100
off: −0.10
sig: 0.033
6923.2100
off: −0.00
sig: 0.019
6949.0300
off: 0.06
sig: 0.018
7571.7500
off: 0.06
sig: 0.015
7794.1200
off: −0.04
sig: 0.007
7821.5100
off: −0.00
sig: 0.006
8399.1600
off: 0.03
sig: 0.005
8430.1700
off: 0.02
sig: 0.005
8885.8300
off: 0.03
sig: 0.005
8919.6100
off: 0.04
sig: 0.005

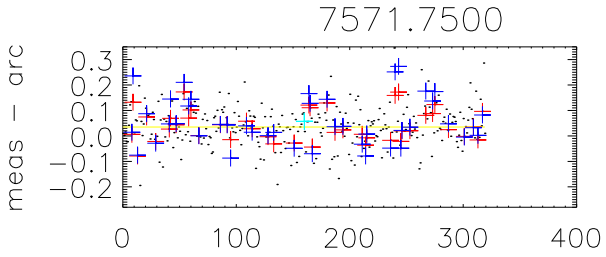

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

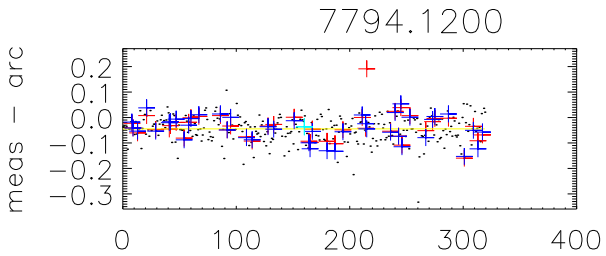

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

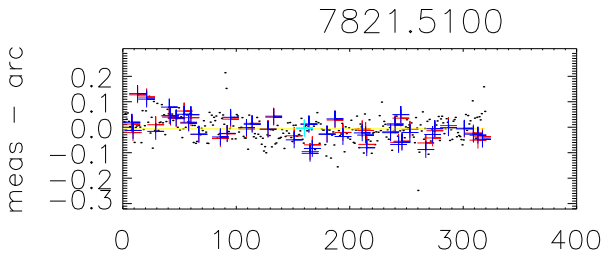

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

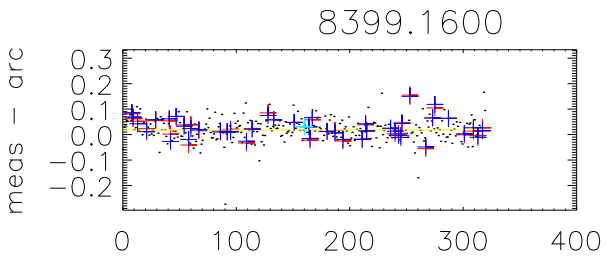

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

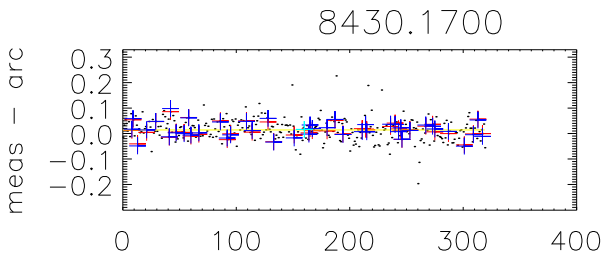

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

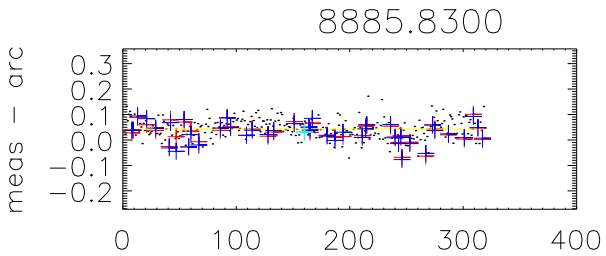

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

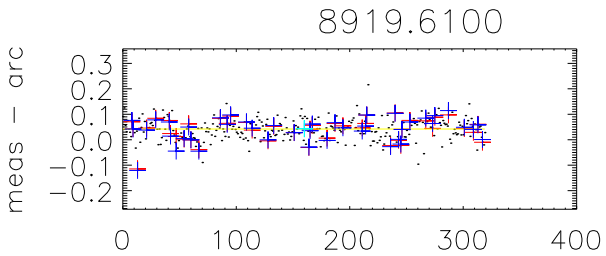

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

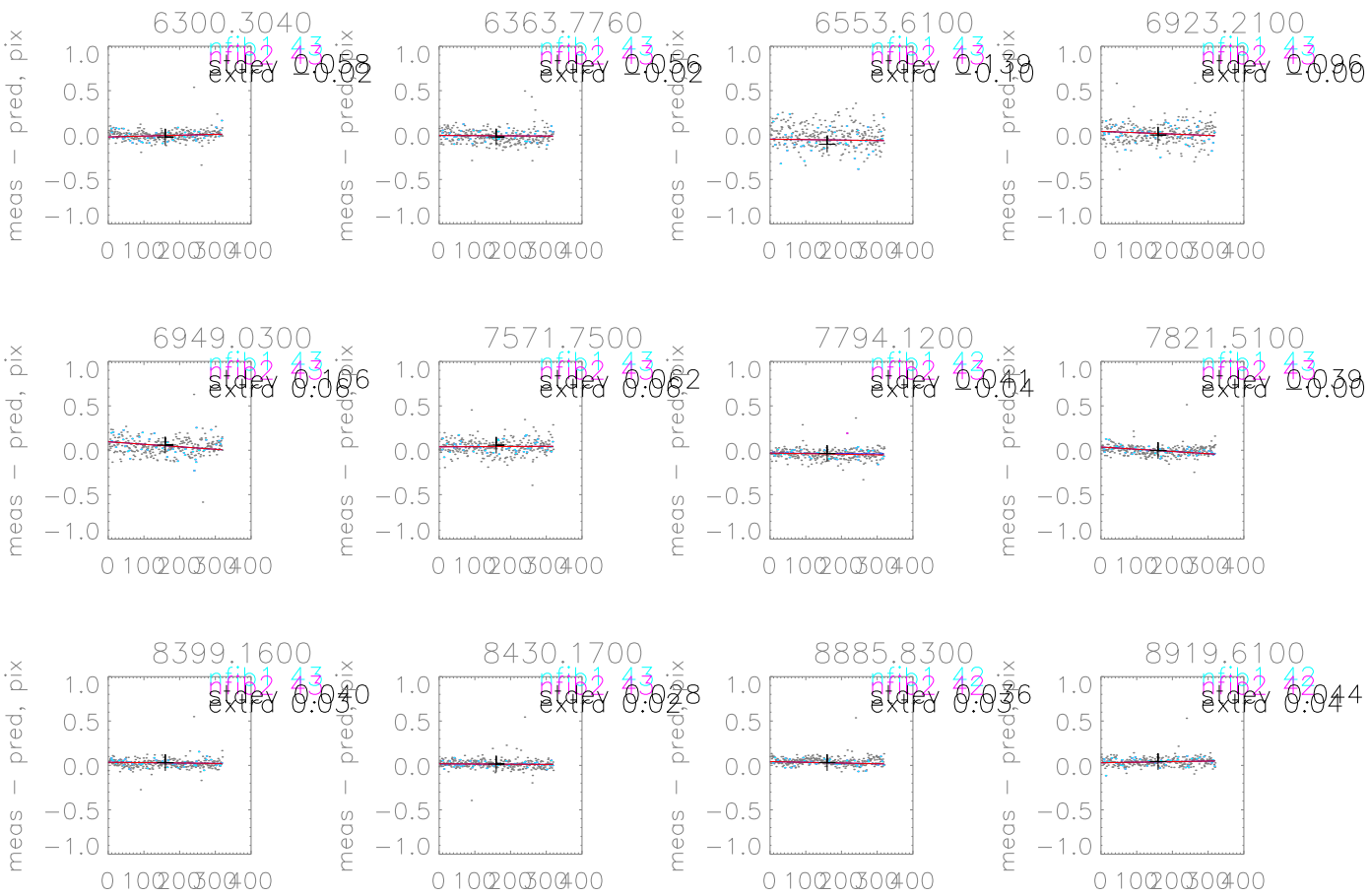

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

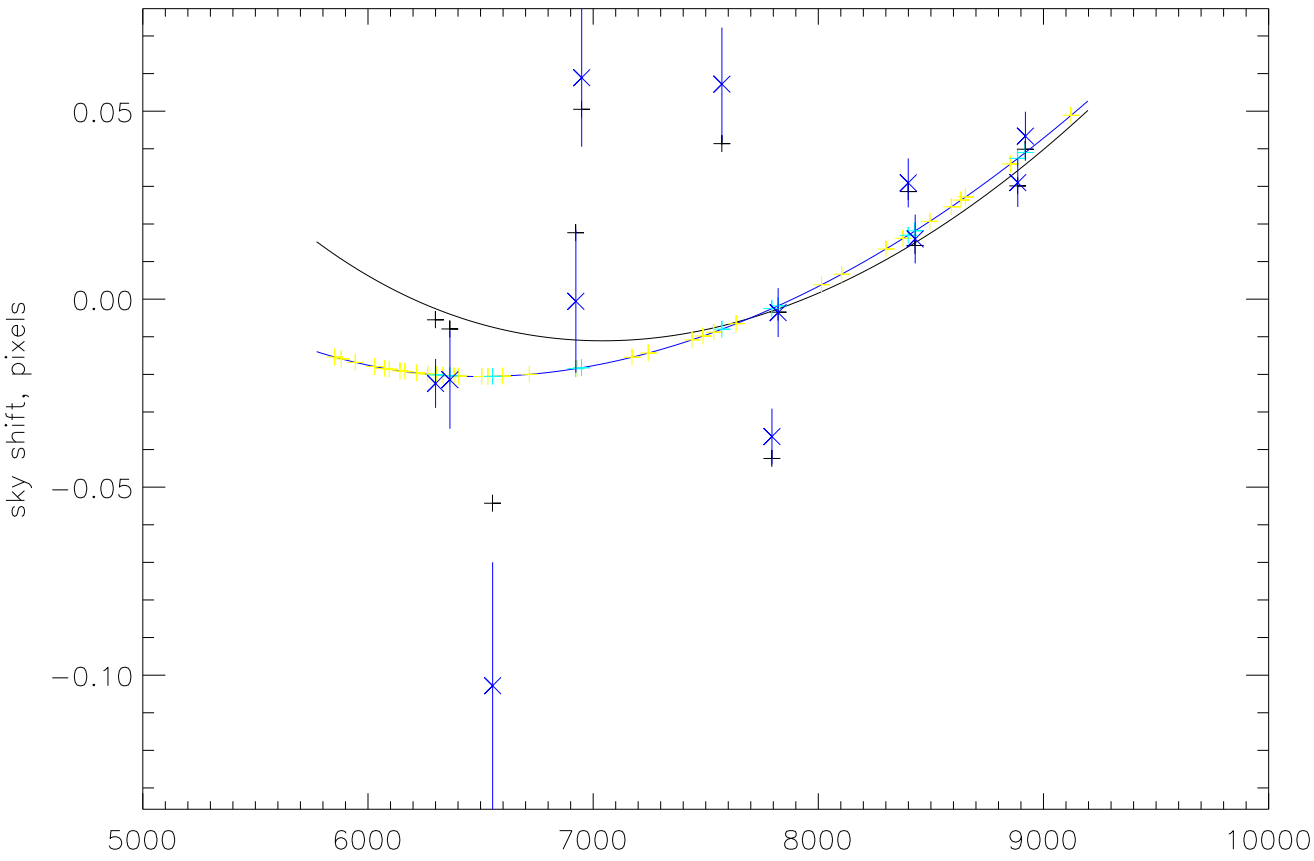

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

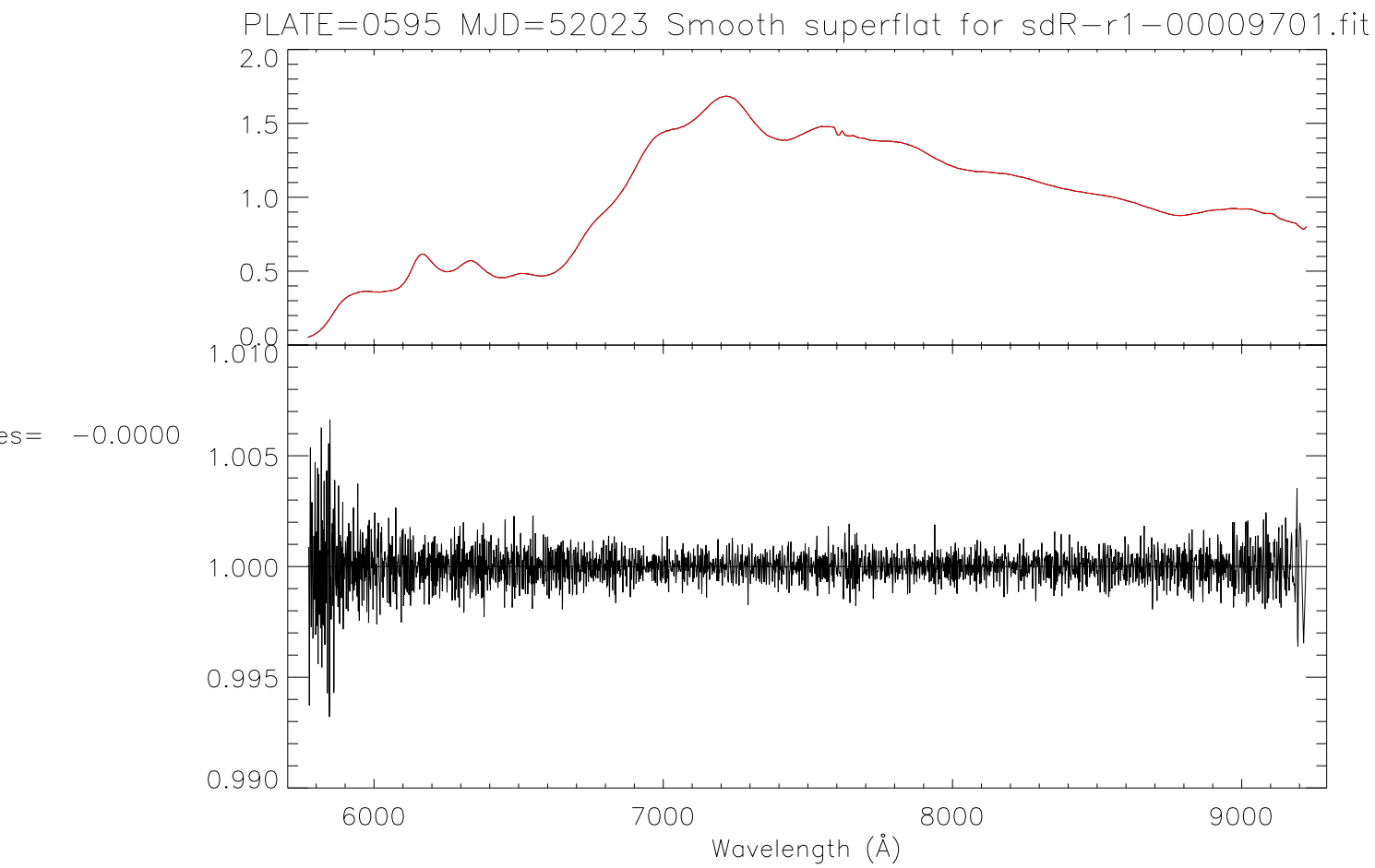

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

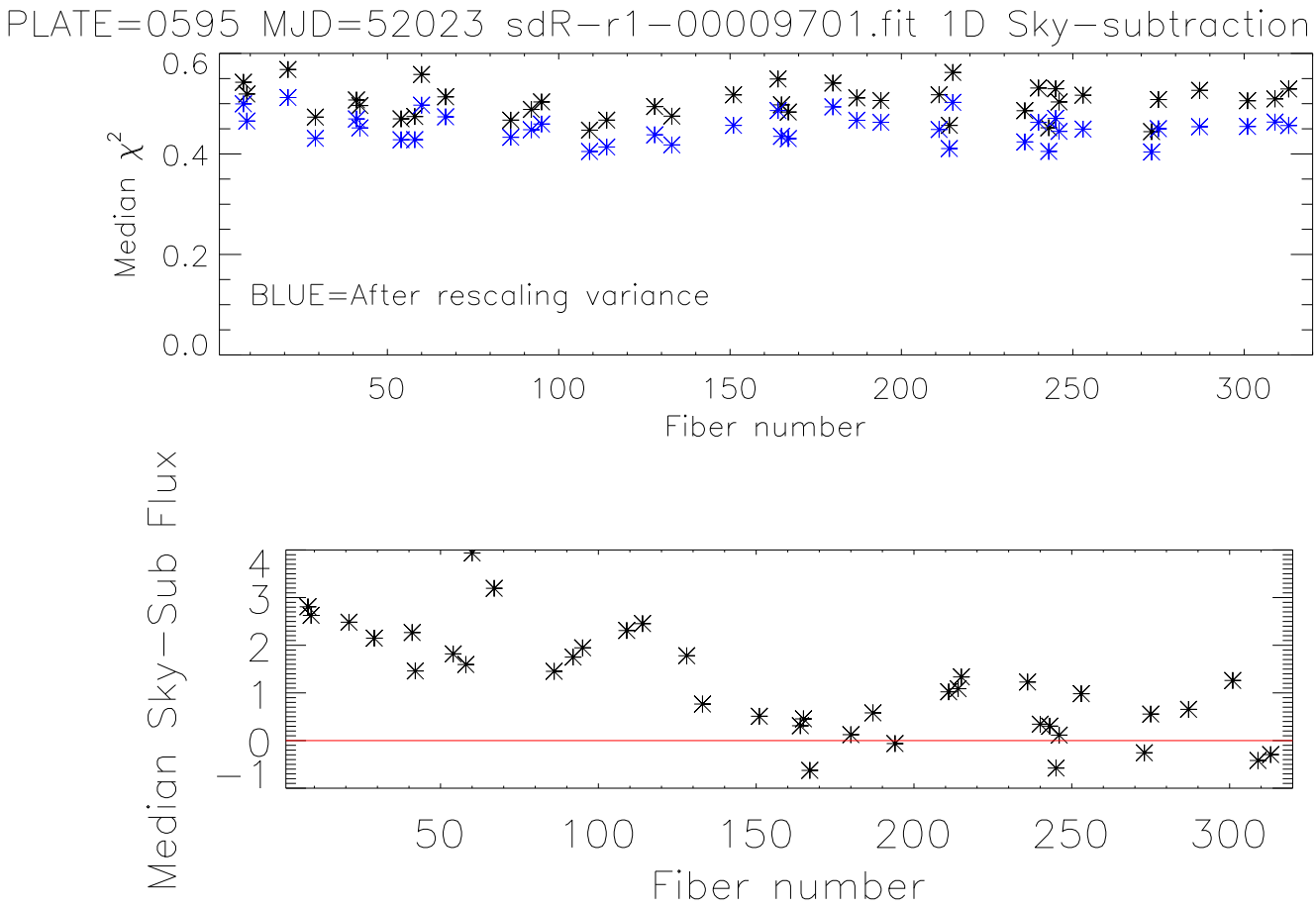

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

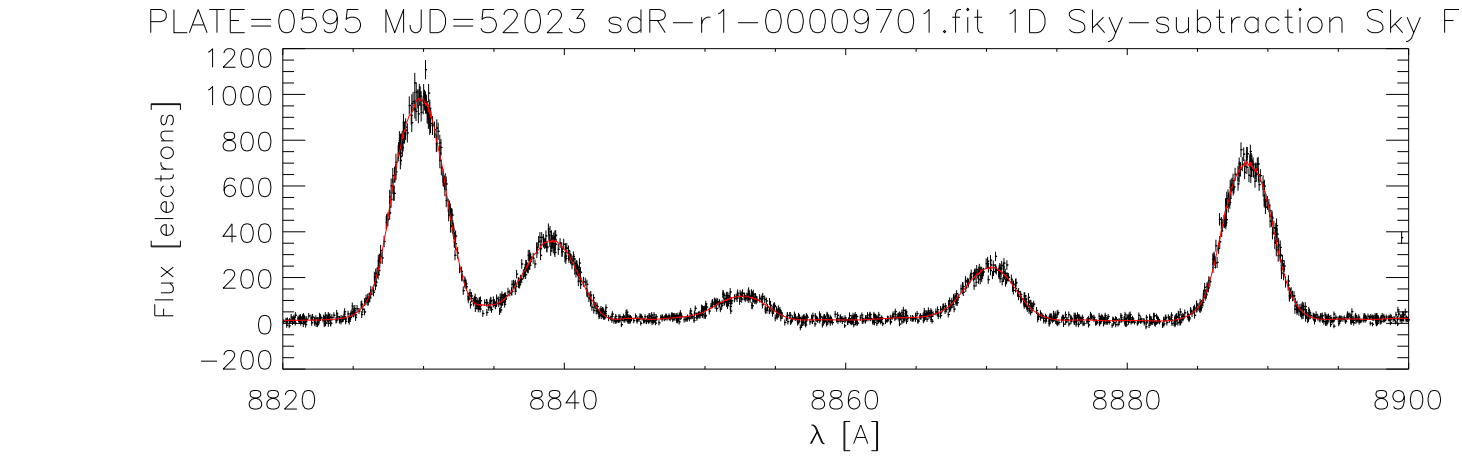

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

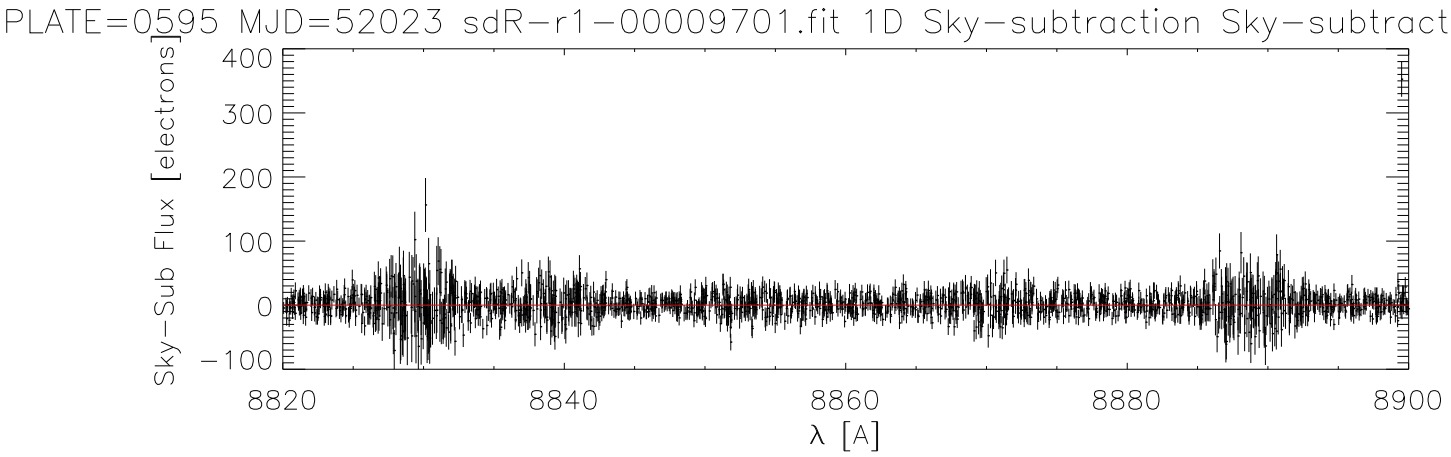

6300.3040
stdev 0.058
extra −0.02
6363.7760
stdev 0.056
extra −0.02
6553.6100
stdev 0.139
extra −0.10
6923.2100
stdev 0.096
extra −0.00
6949.0300
stdev 0.106
extra 0.06
7571.7500
stdev 0.062
extra 0.06
7794.1200
stdev 0.041
extra −0.04
7821.5100
stdev 0.039
extra −0.00
8399.1600
stdev 0.040
extra 0.03
8430.1700
stdev 0.028
extra 0.02
8885.8300
stdev 0.036
extra 0.03
8919.6100
stdev 0.044
extra 0.04
meas − pred, pix
mfib1 43
mfib2 43
mfib1 42
mfib2 42

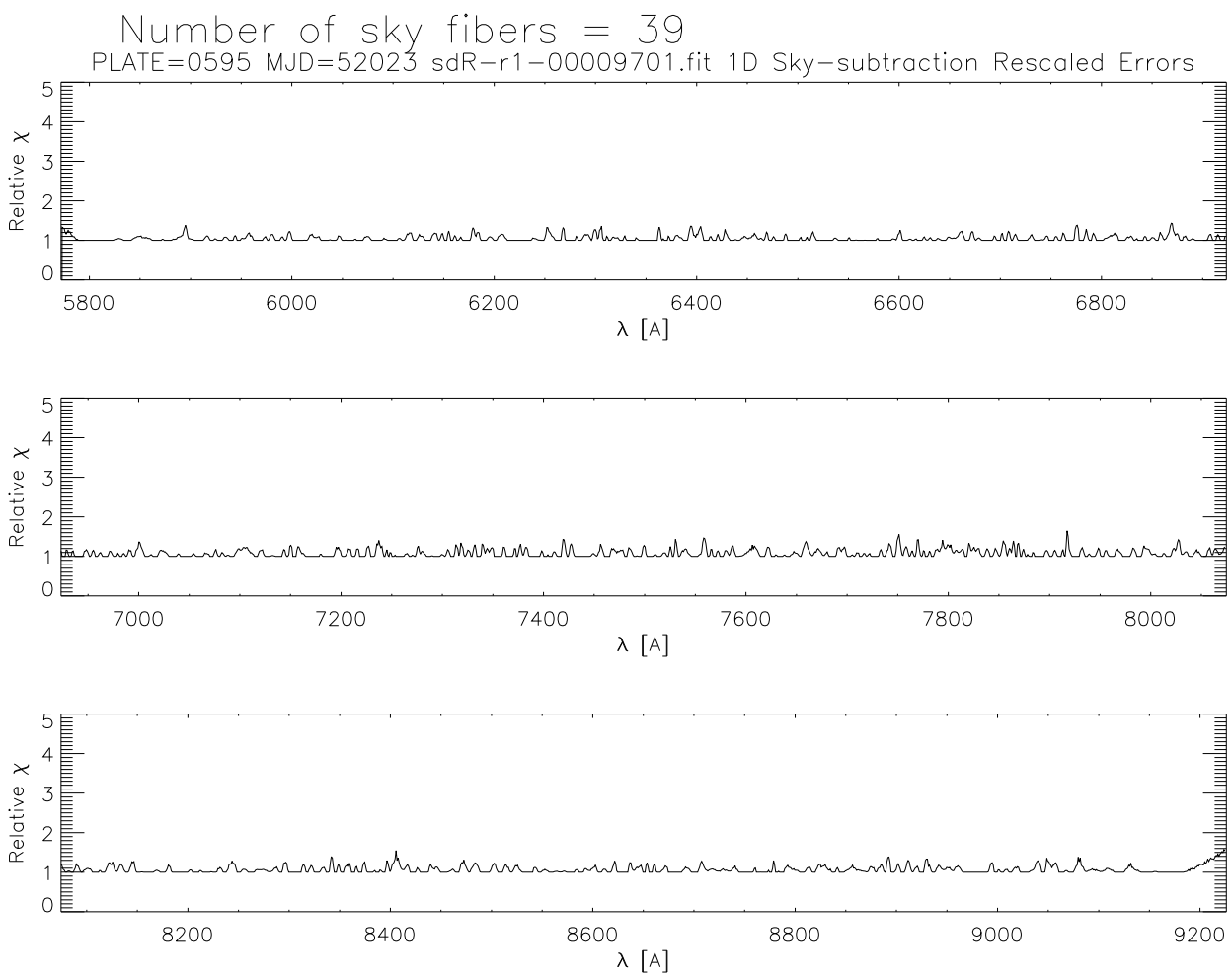

0.05
0.00
−0.05
−0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

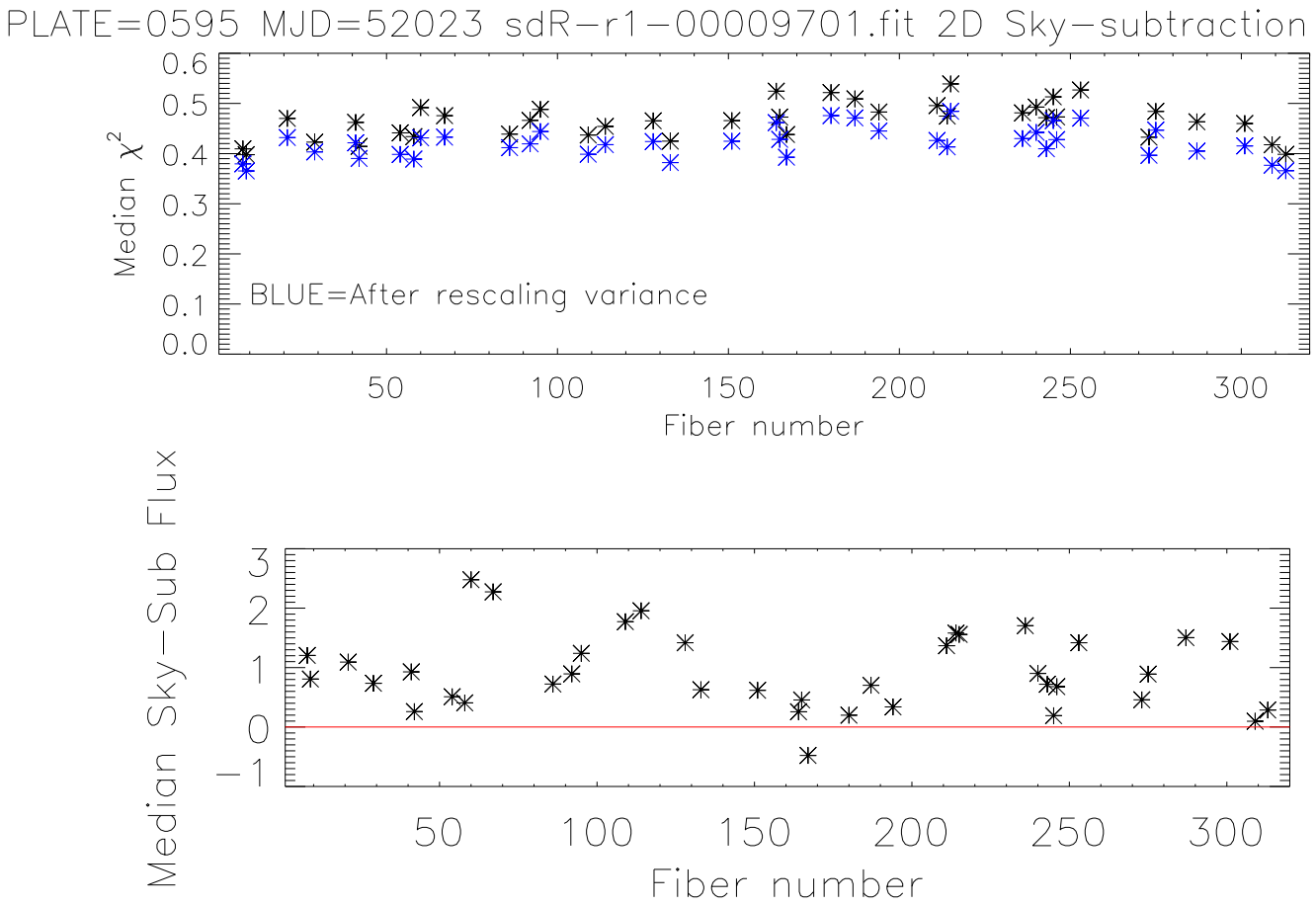

PLATE=0595 MJD=52023 Smooth superflat for sdR-r1-00009701.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

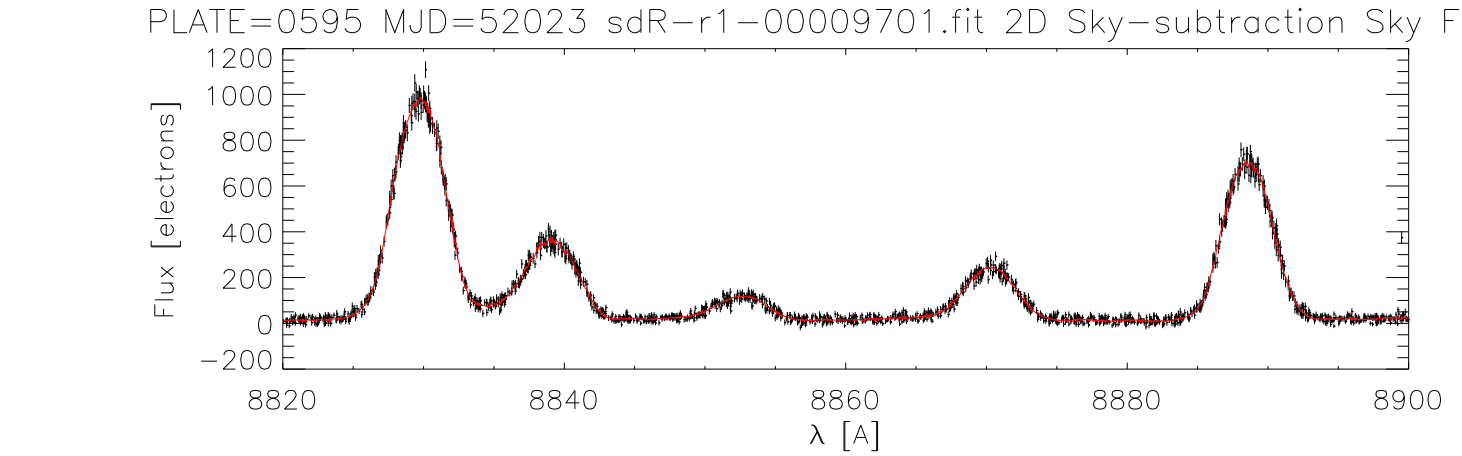

PLATE=0595 MJD=52023 sdR-r1-00009701.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

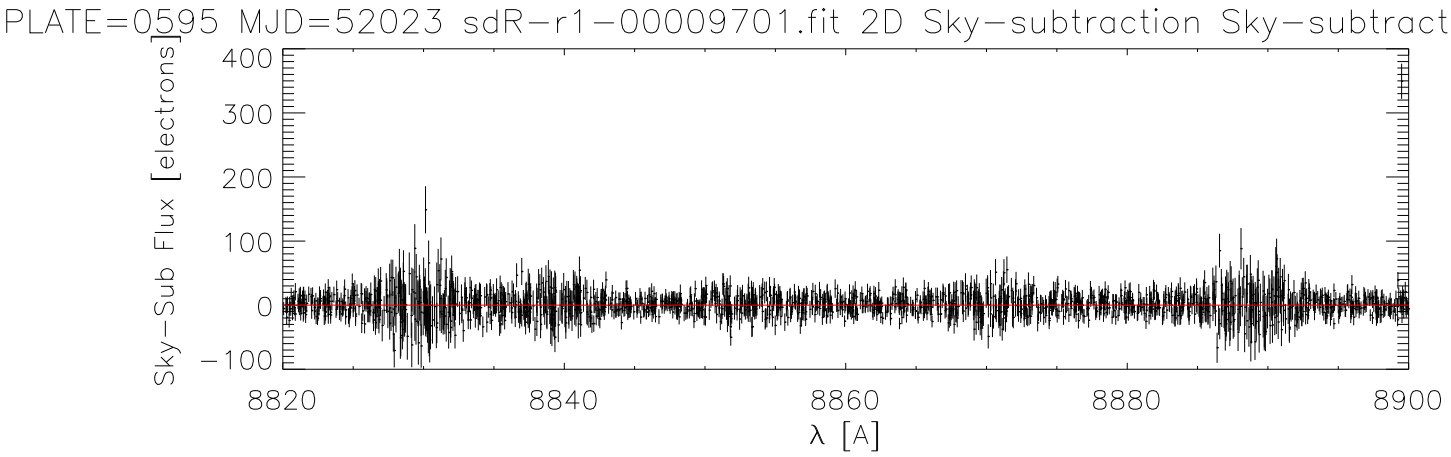

PLATE=0595 MJD=52023 sdR-r1-00009701.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

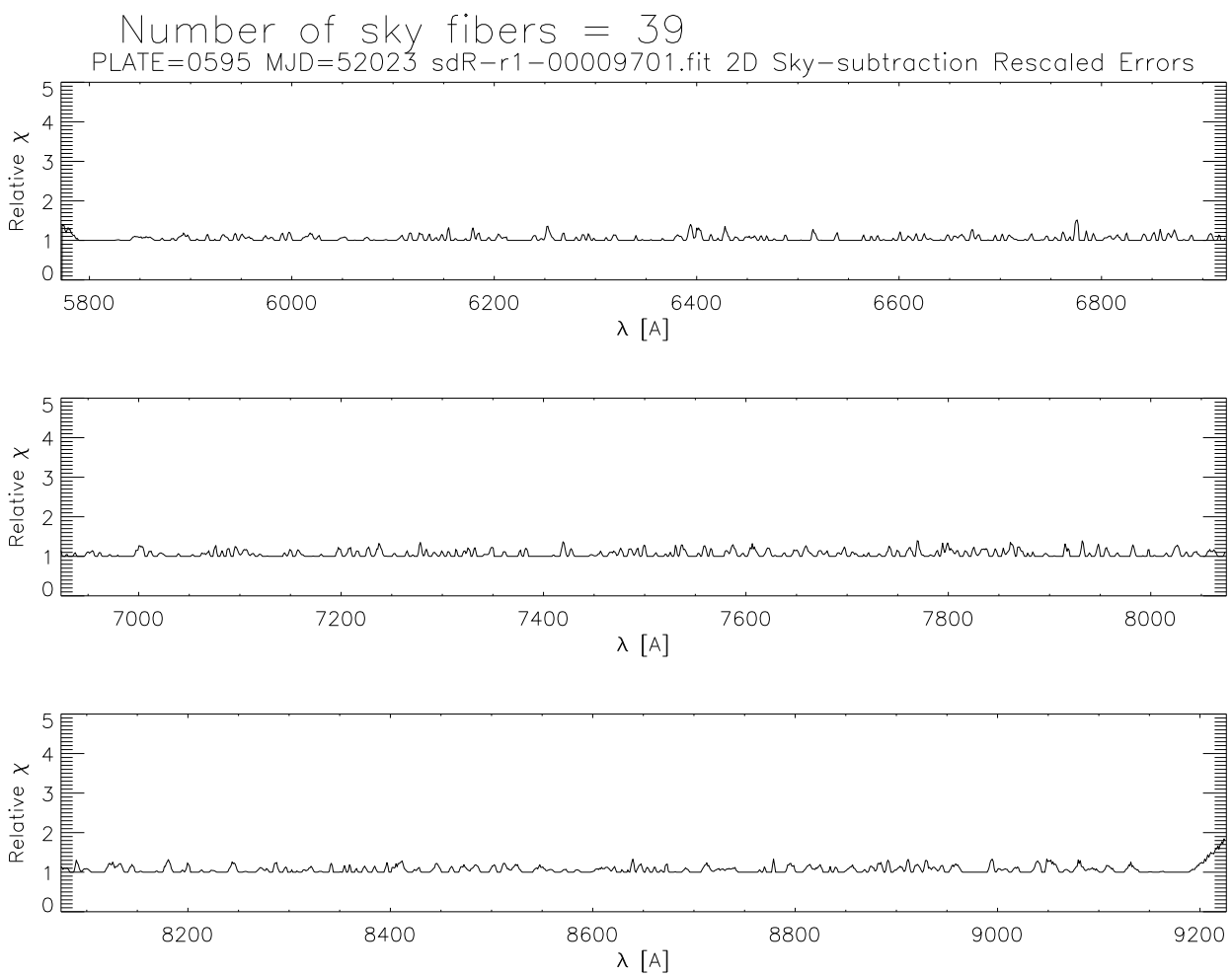

PLATE=0595 MJD=52023 sdR-r1-00009701.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
8820
8840
8860
8880
8900
λ [A]

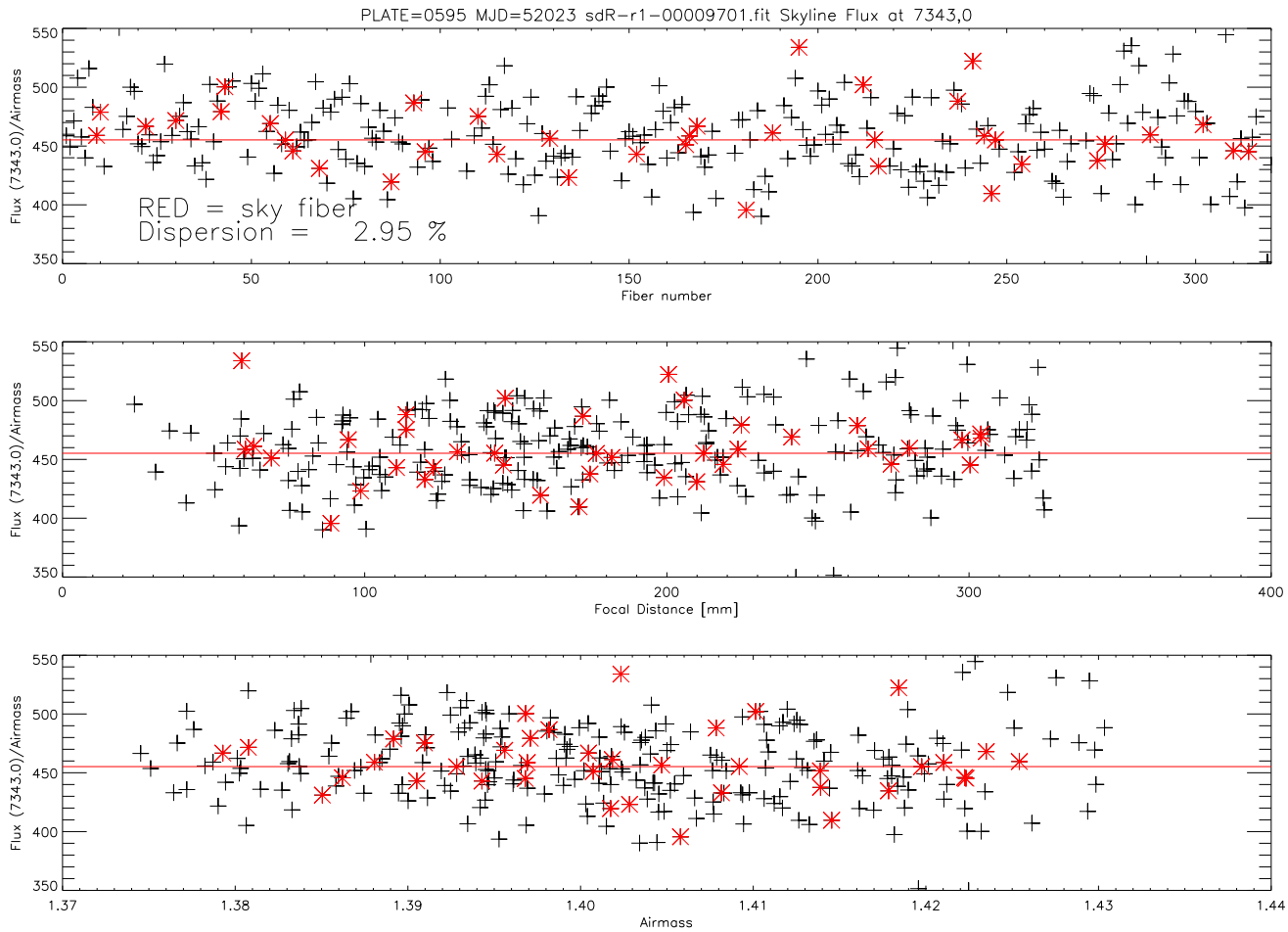

Number of sky fibers = 39
PLATE=0595 MJD=52023 sdR-r1-00009701.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

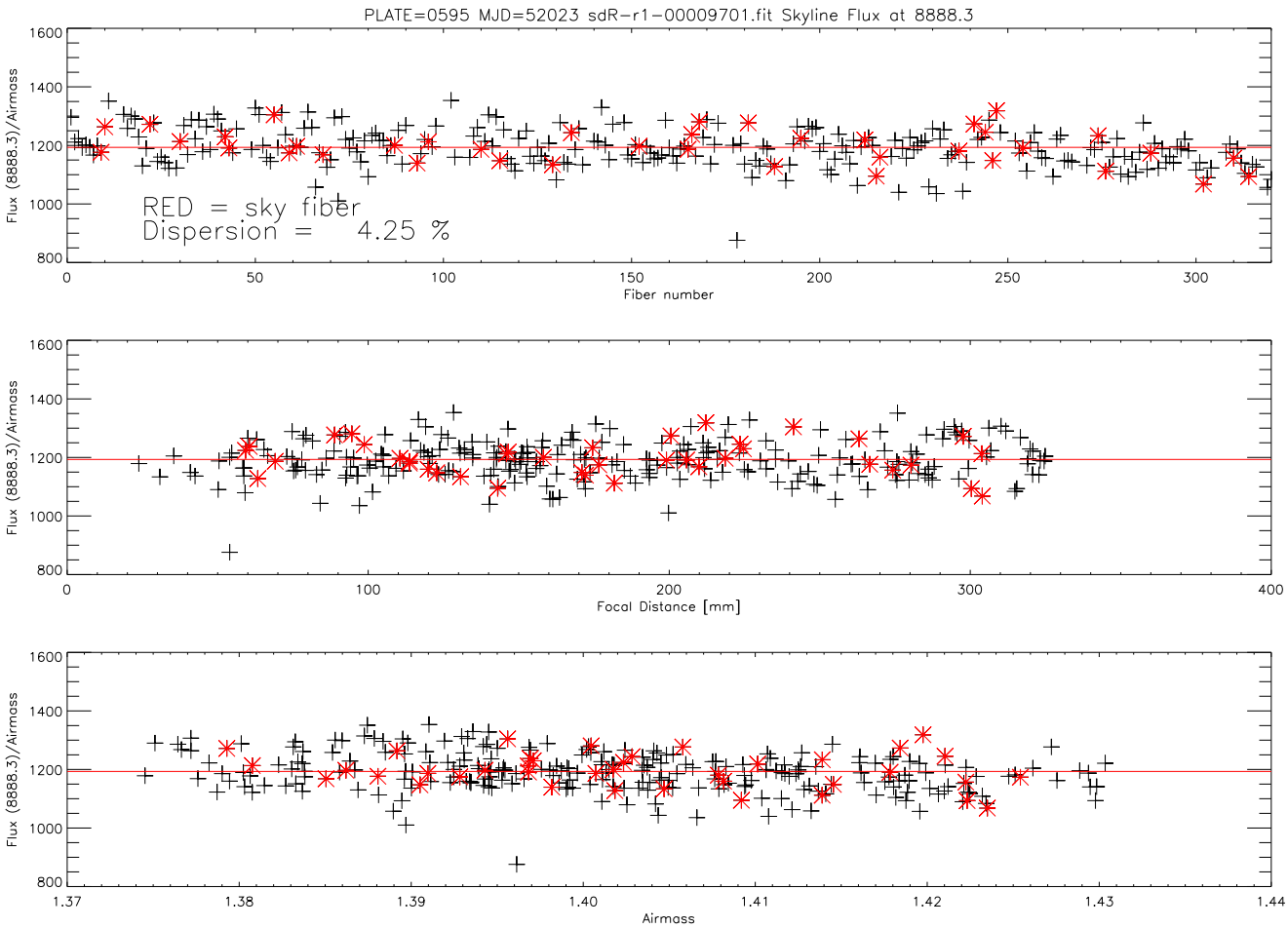

PLATE=0595 MJD=52023 sdR-r1-00009701.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

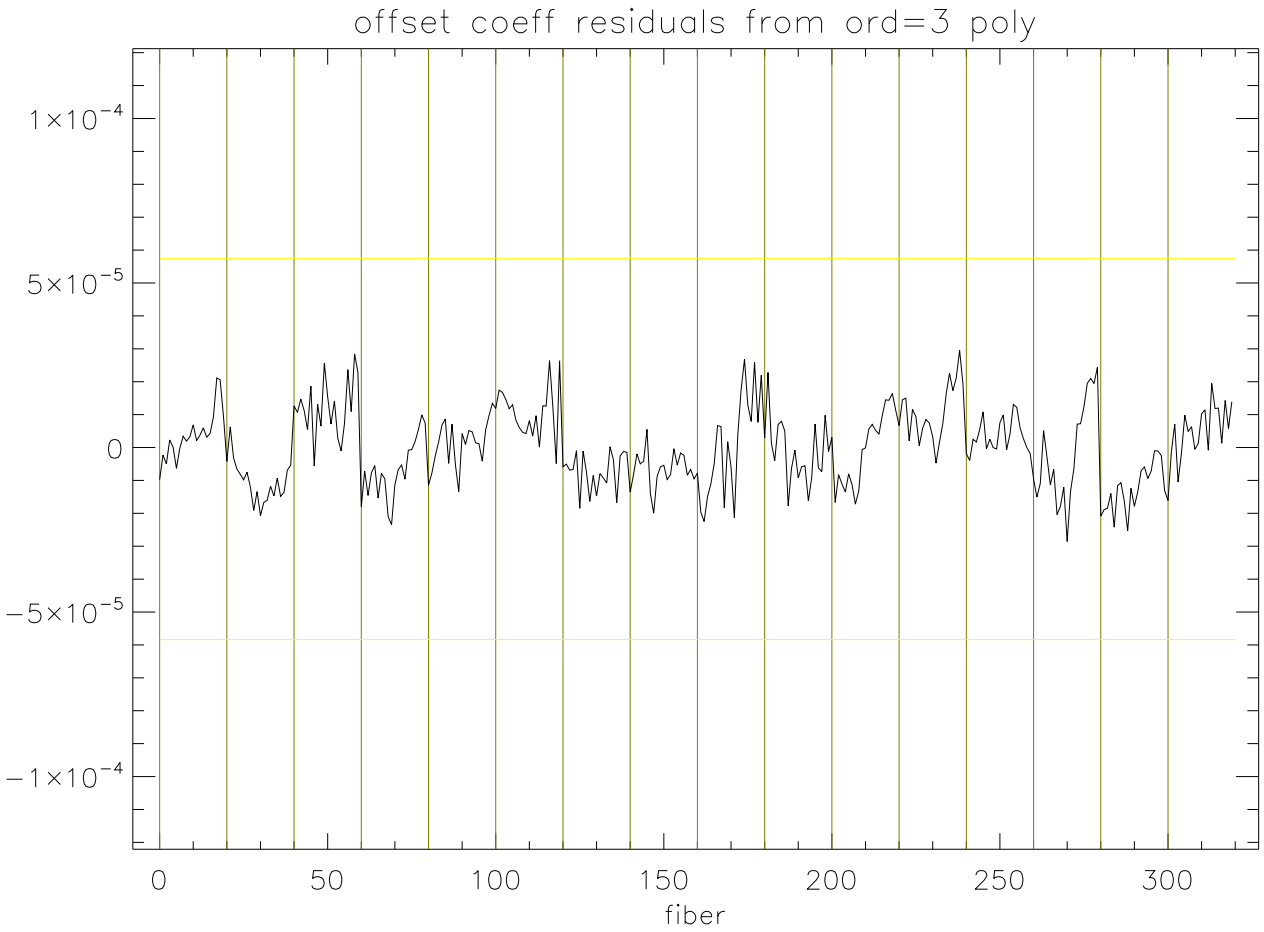

PLATE=0595 MJD=52023 sdR-r1-00009701.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

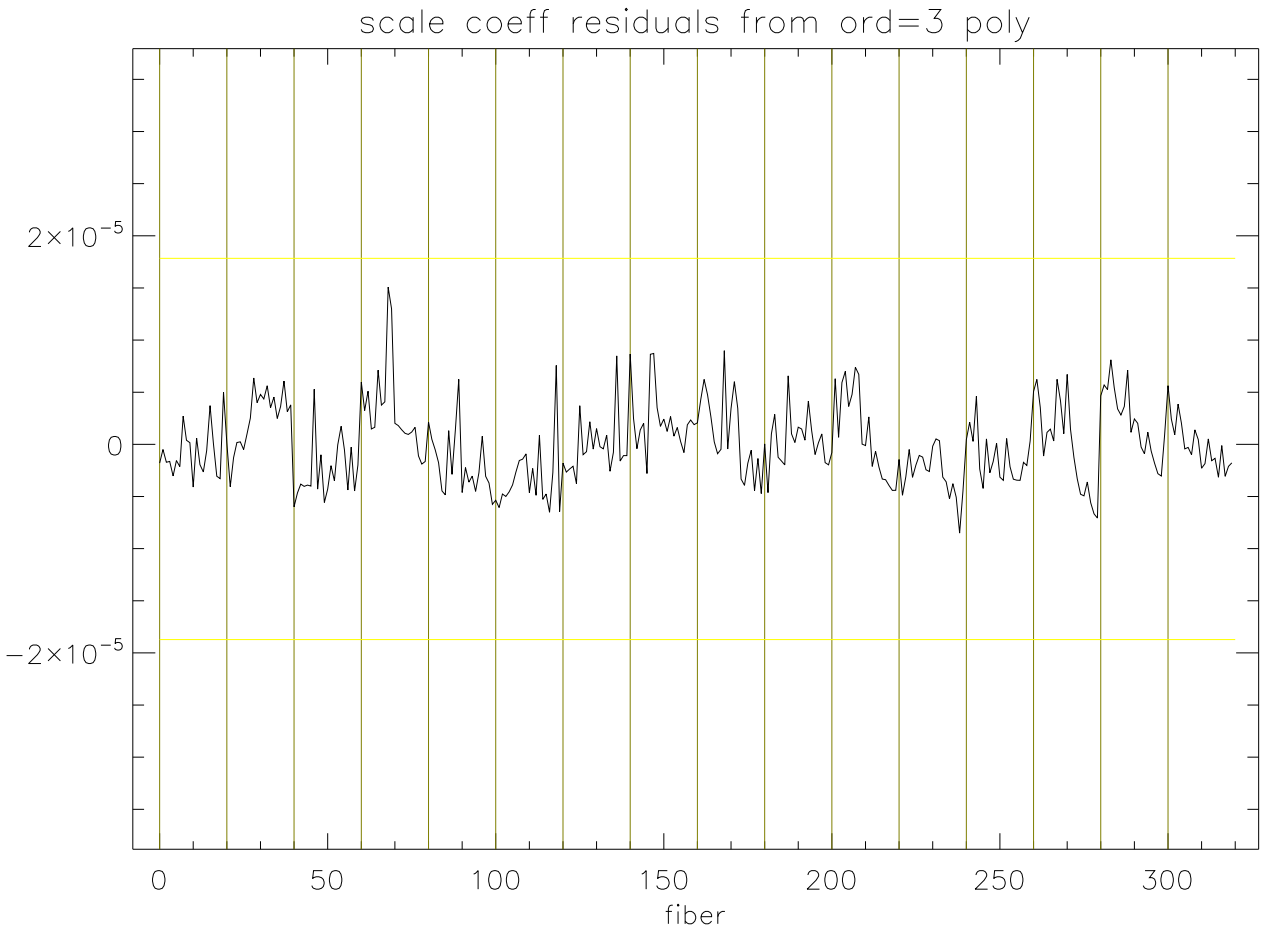

PLATE=0595 MJD=52023 sdR-r1-00009701.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
8820
8840
8860
8880
8900
λ [A]

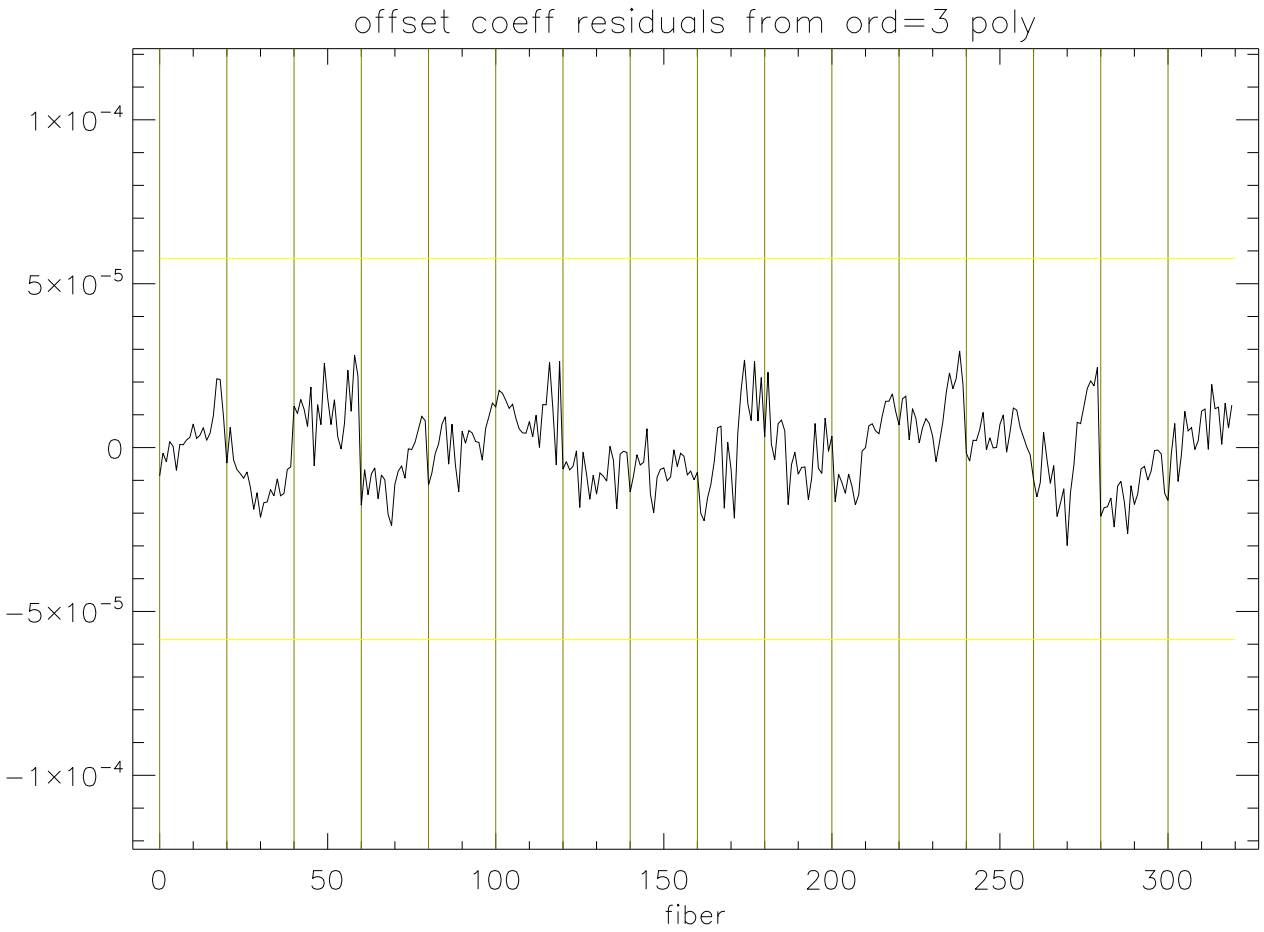

Number of sky fibers = 39
PLATE=0595 MJD=52023 sdR-r1-00009701.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

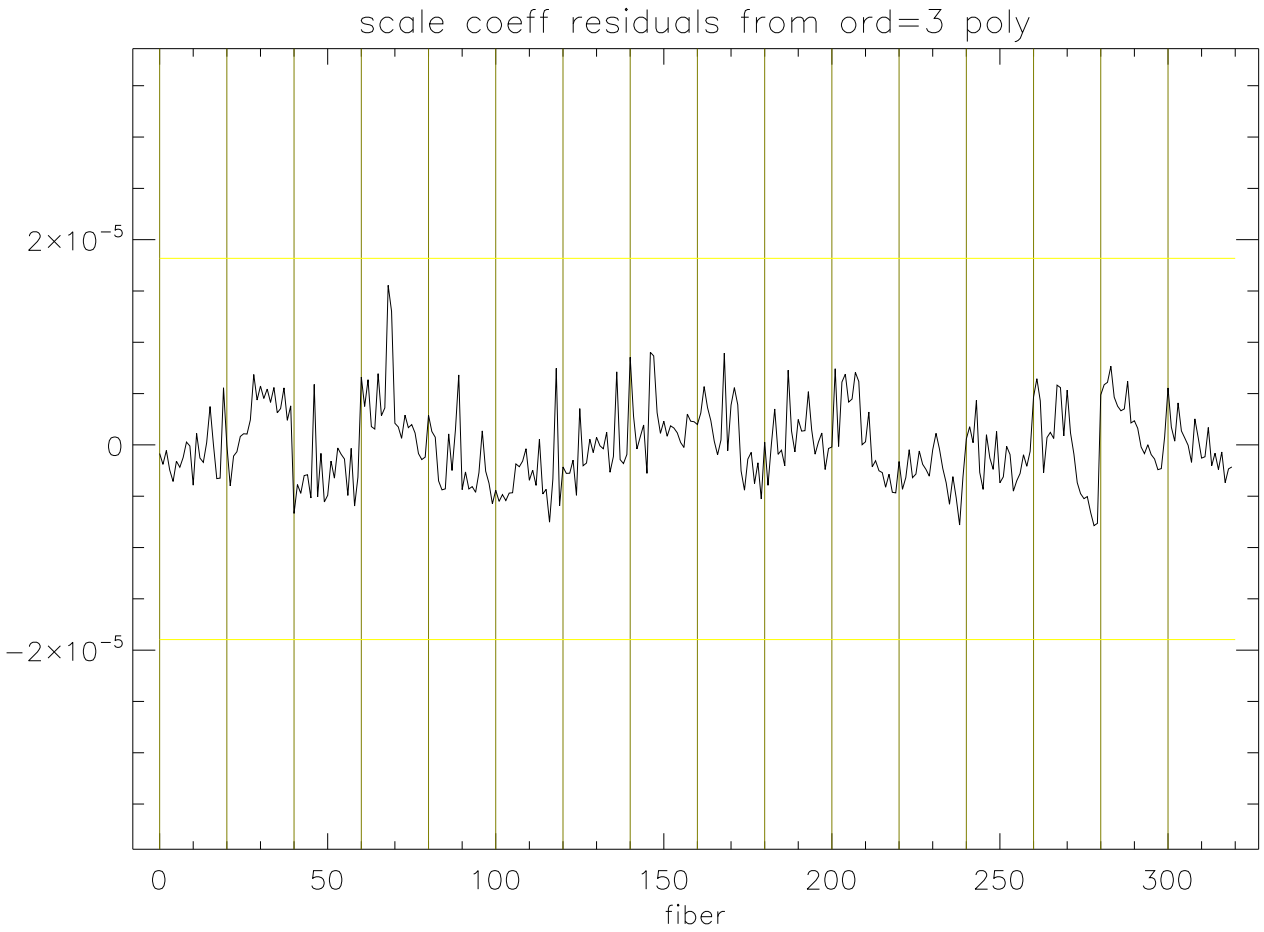

PLATE=0595 MJD=52023 sdR-r1-00009701.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.95 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

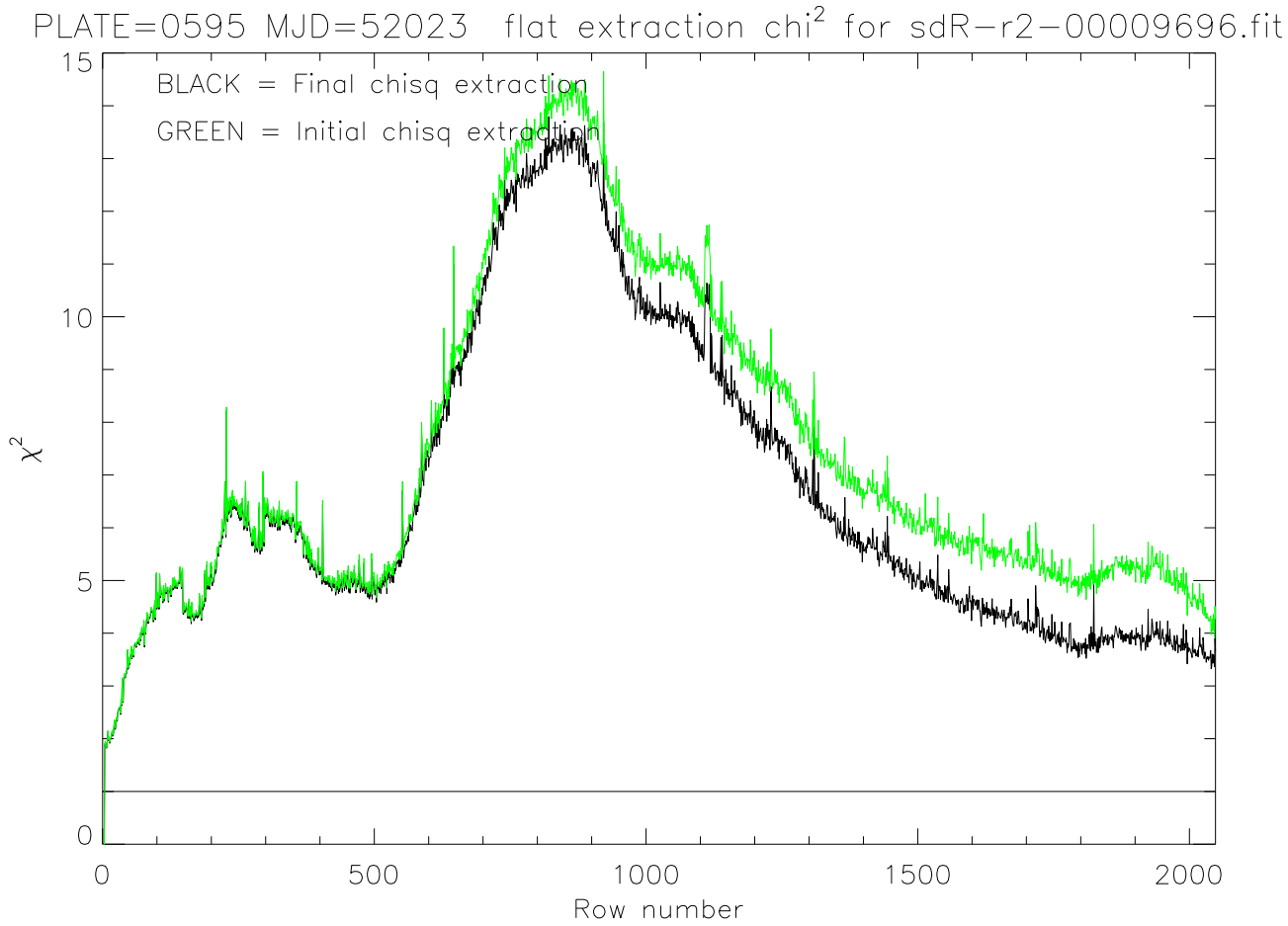

PLATE=0595 MJD=52023 sdR-r1-00009701.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 4.25 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

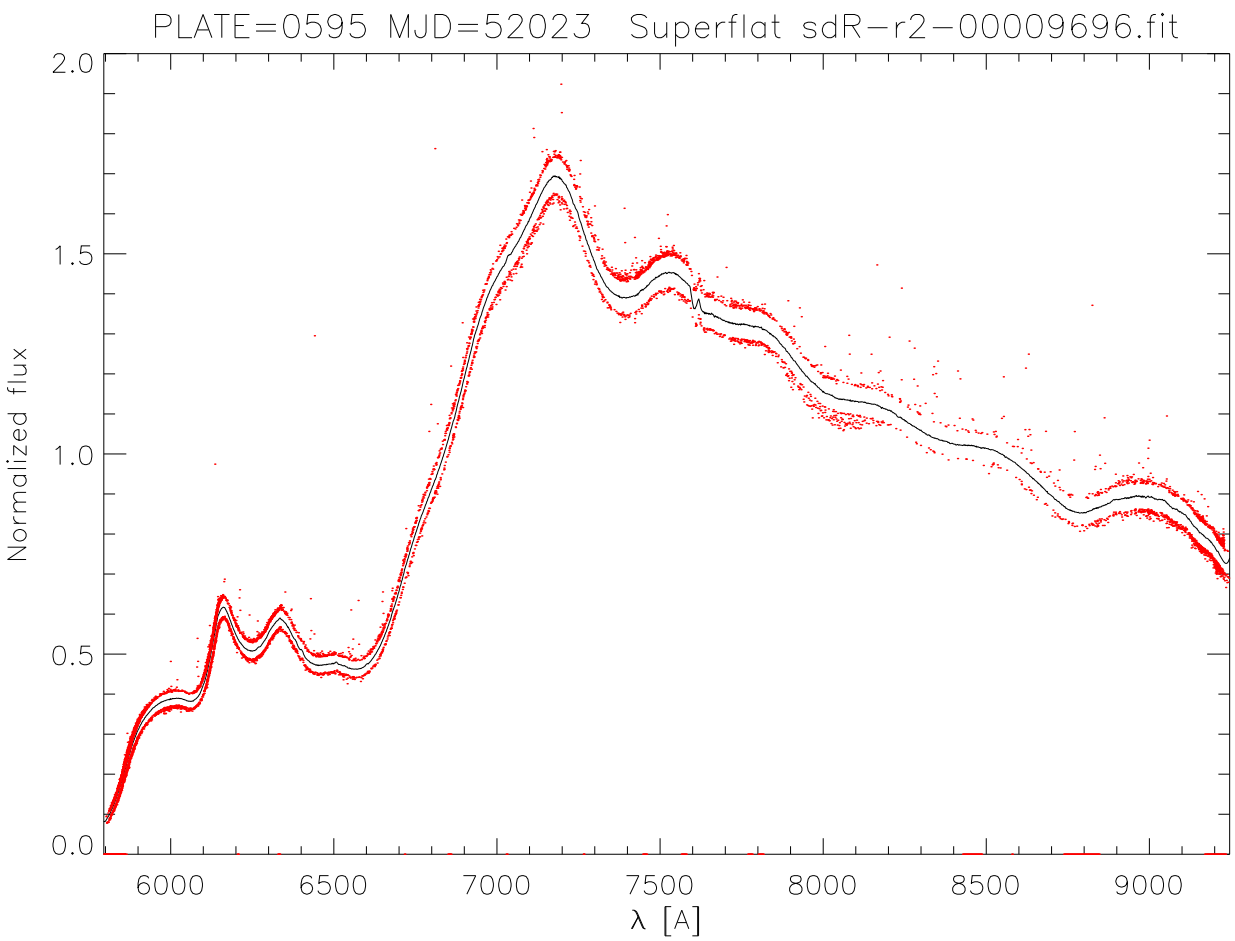

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

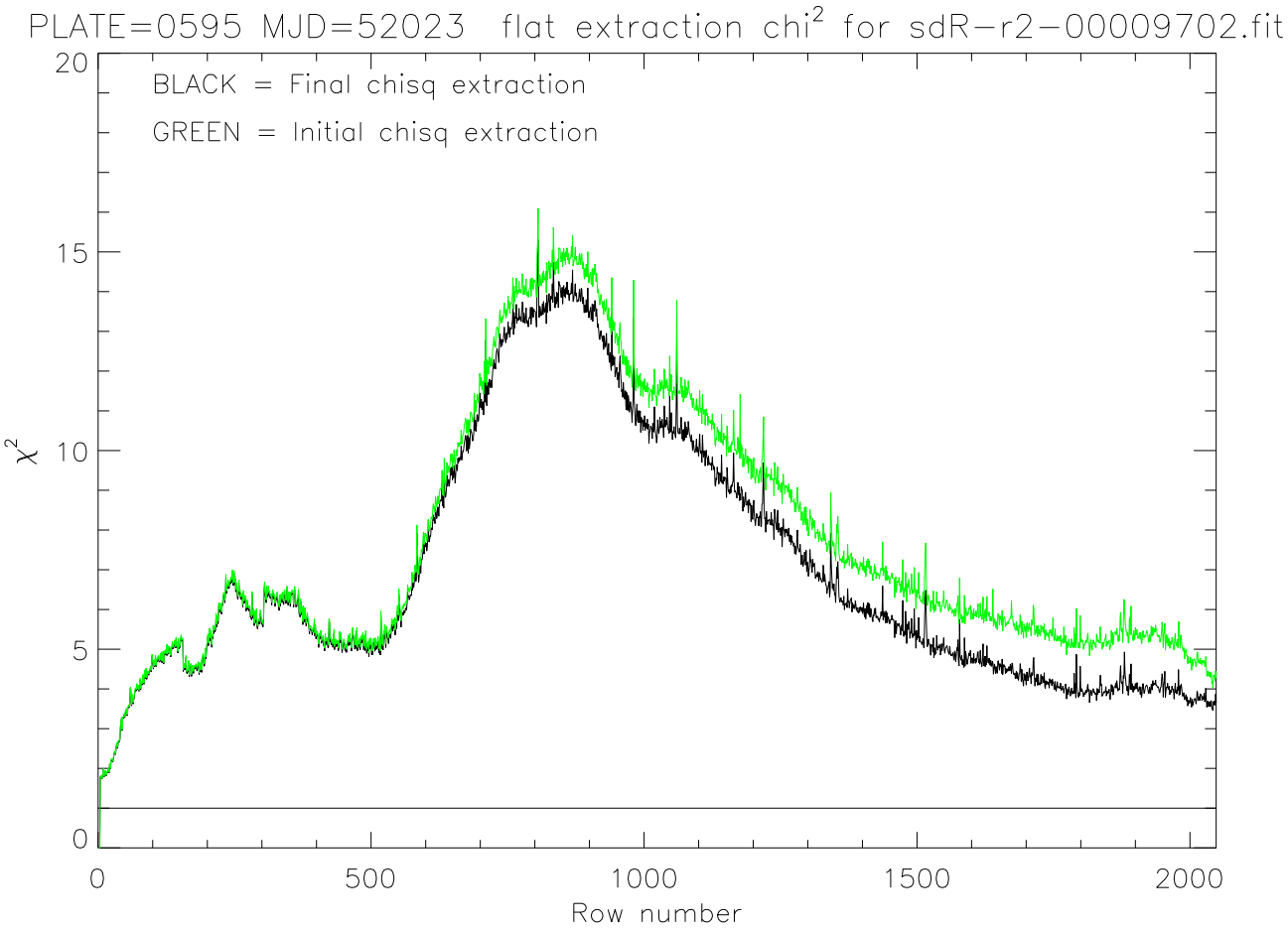

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

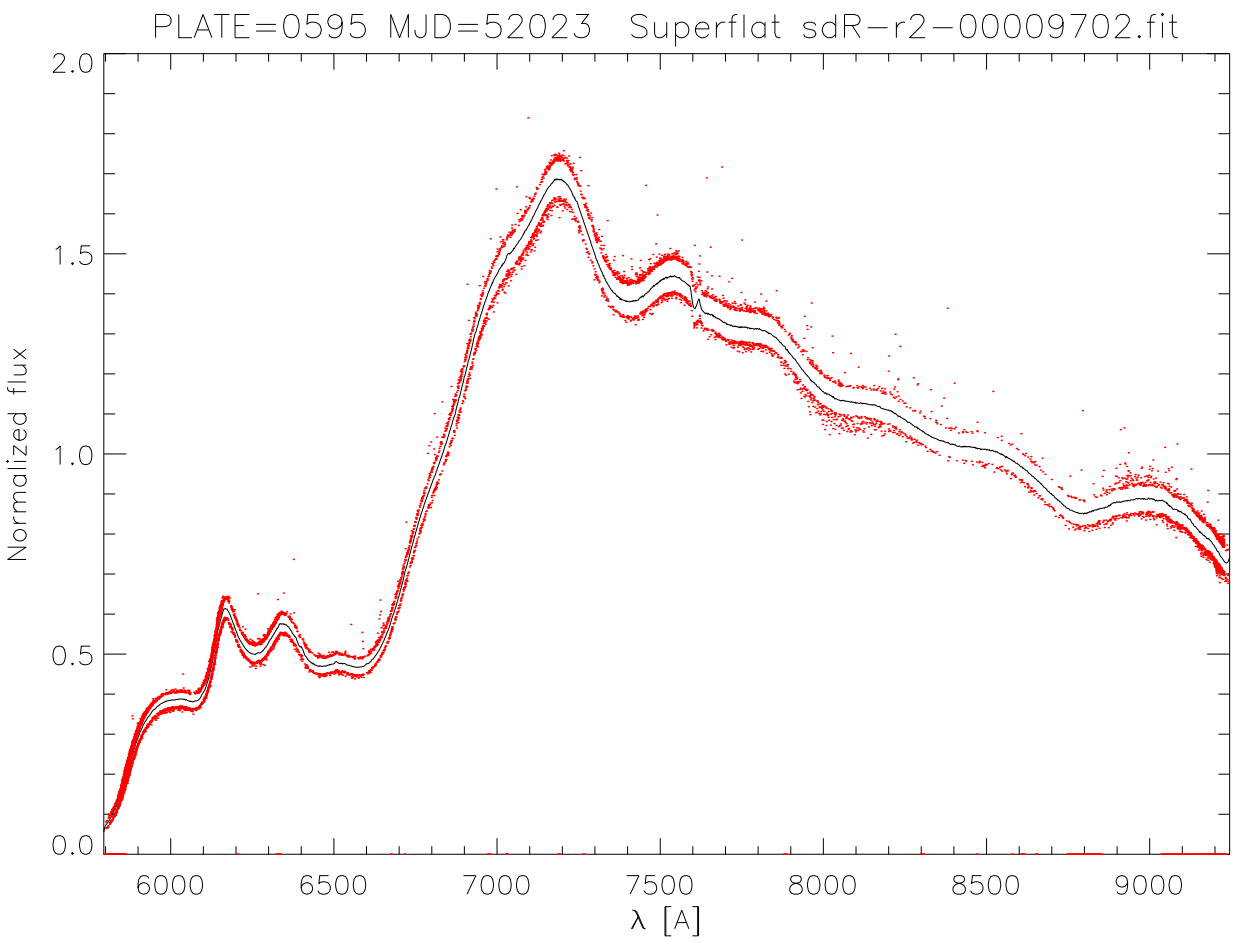

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

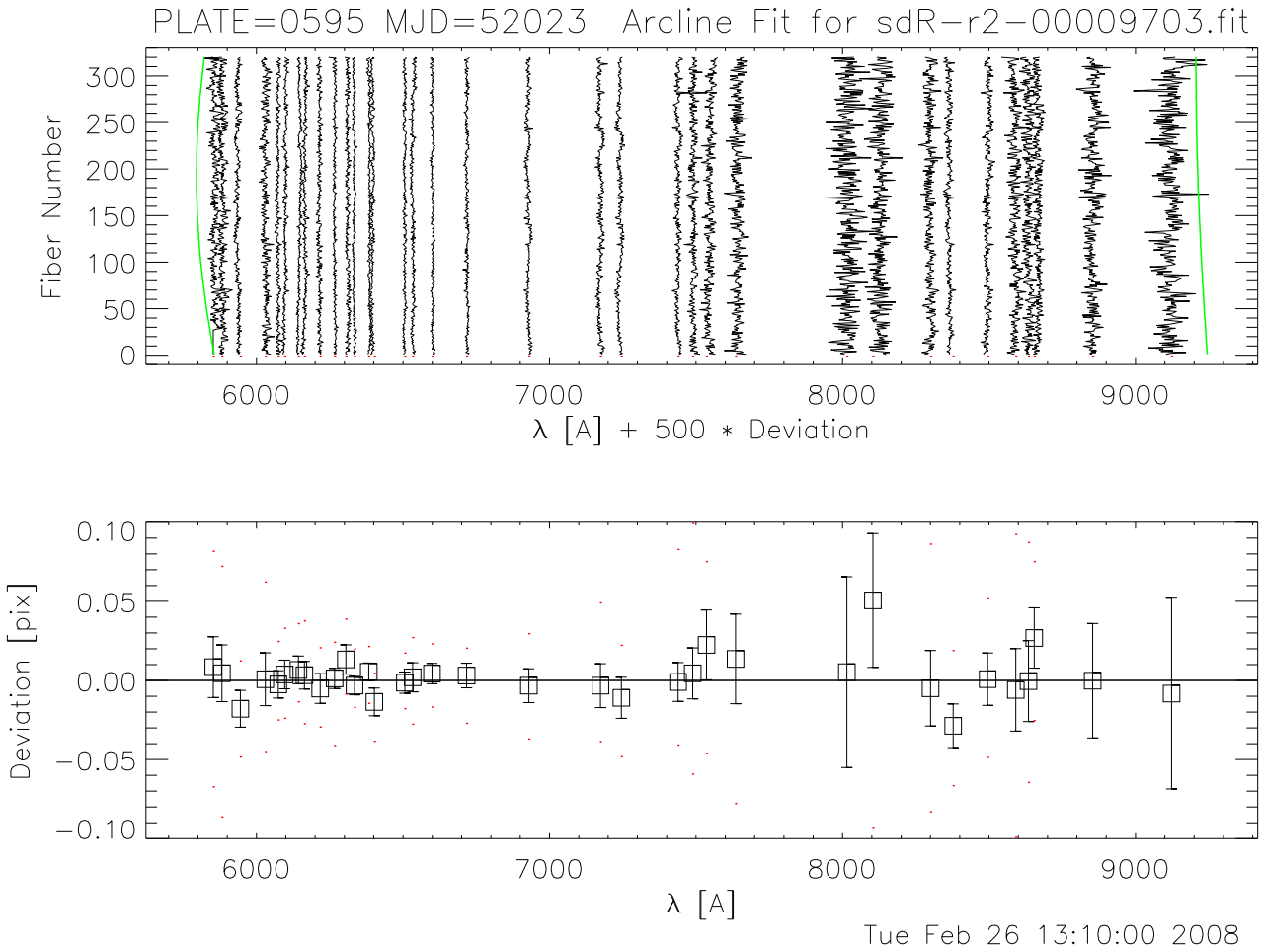

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

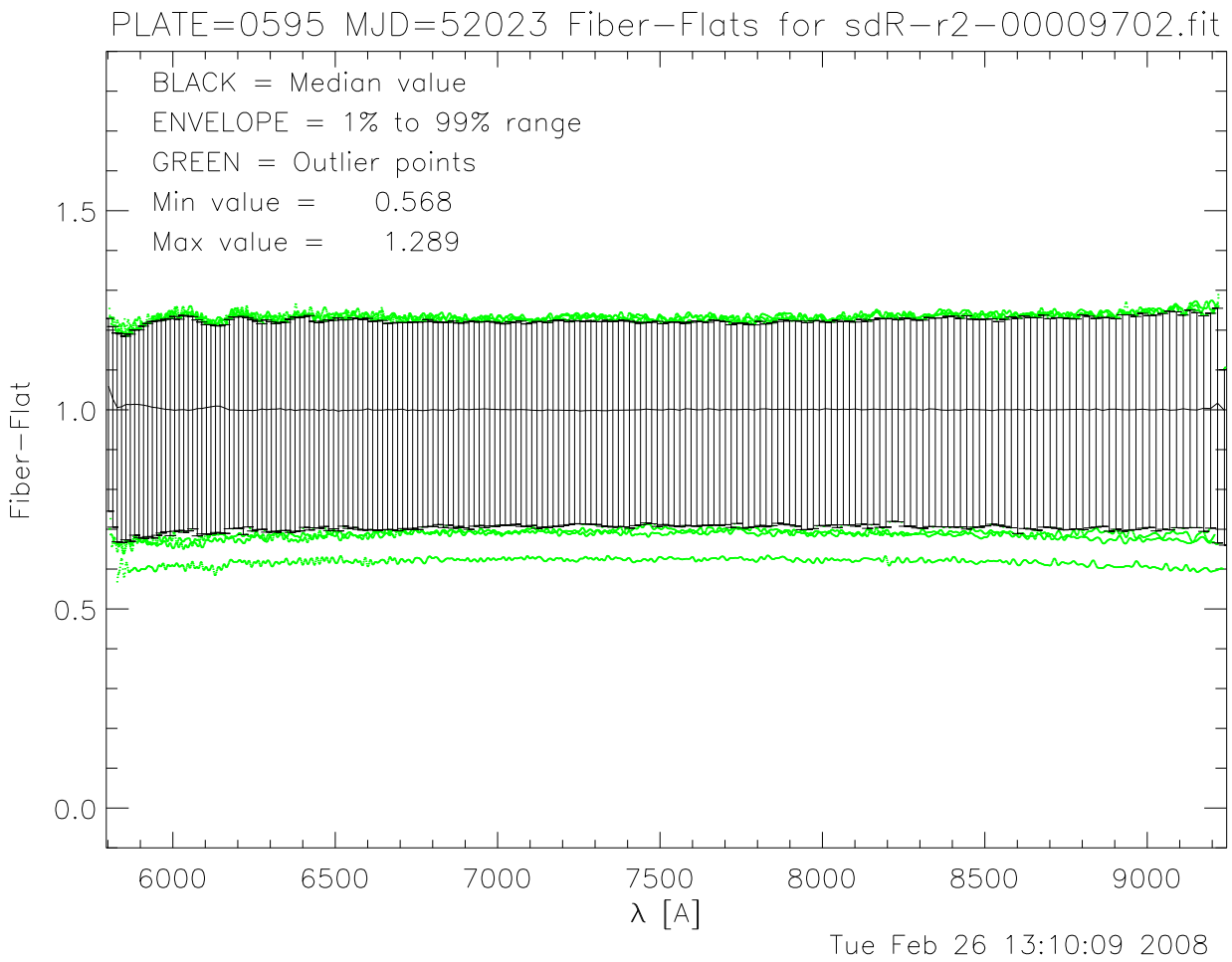

PLATE=0595 MJD=52023 flat extraction chi^2 for sdR−r2−00009696.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

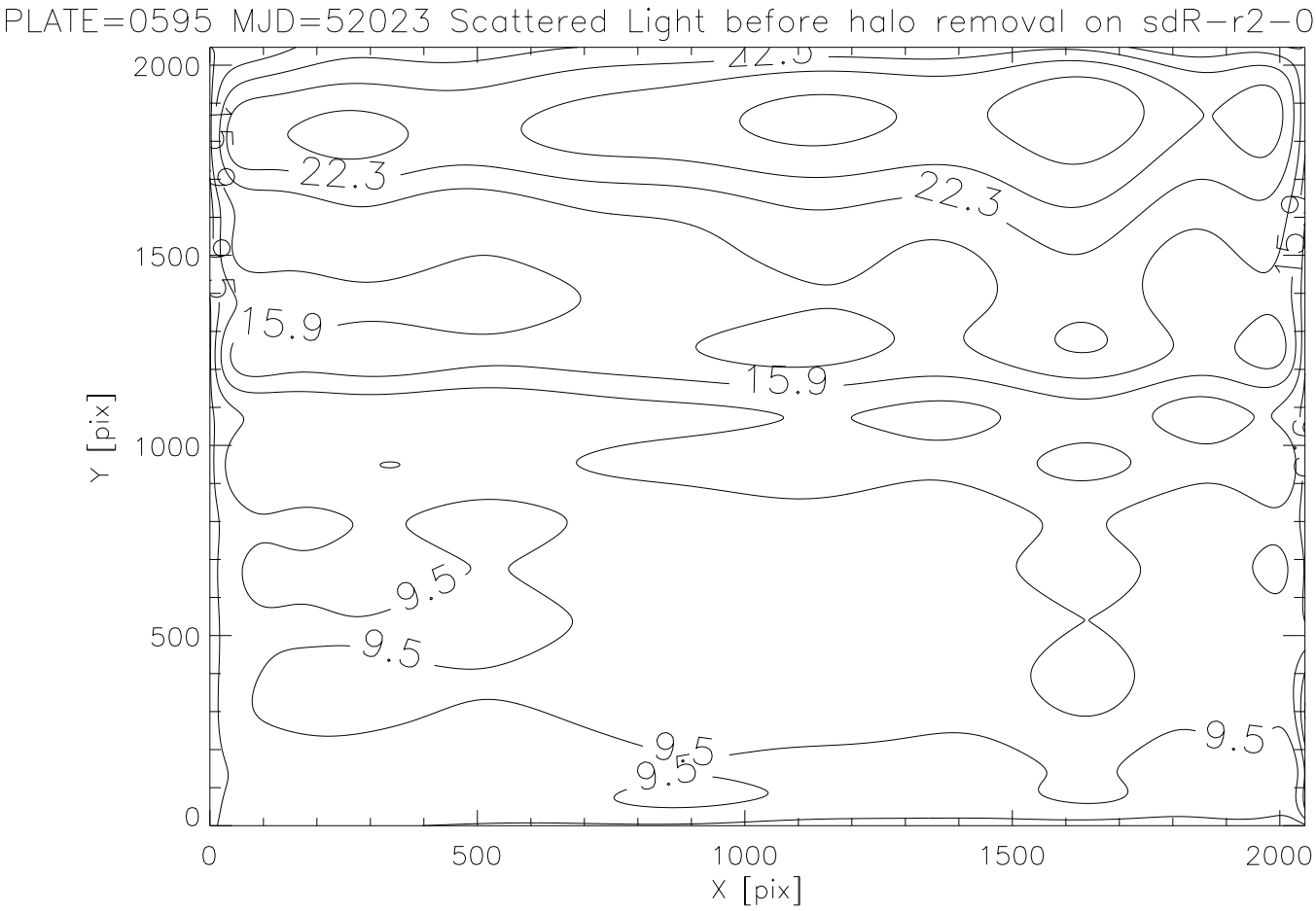

PLATE=0595 MJD=52023 Superflat sdR-r2-00009696.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

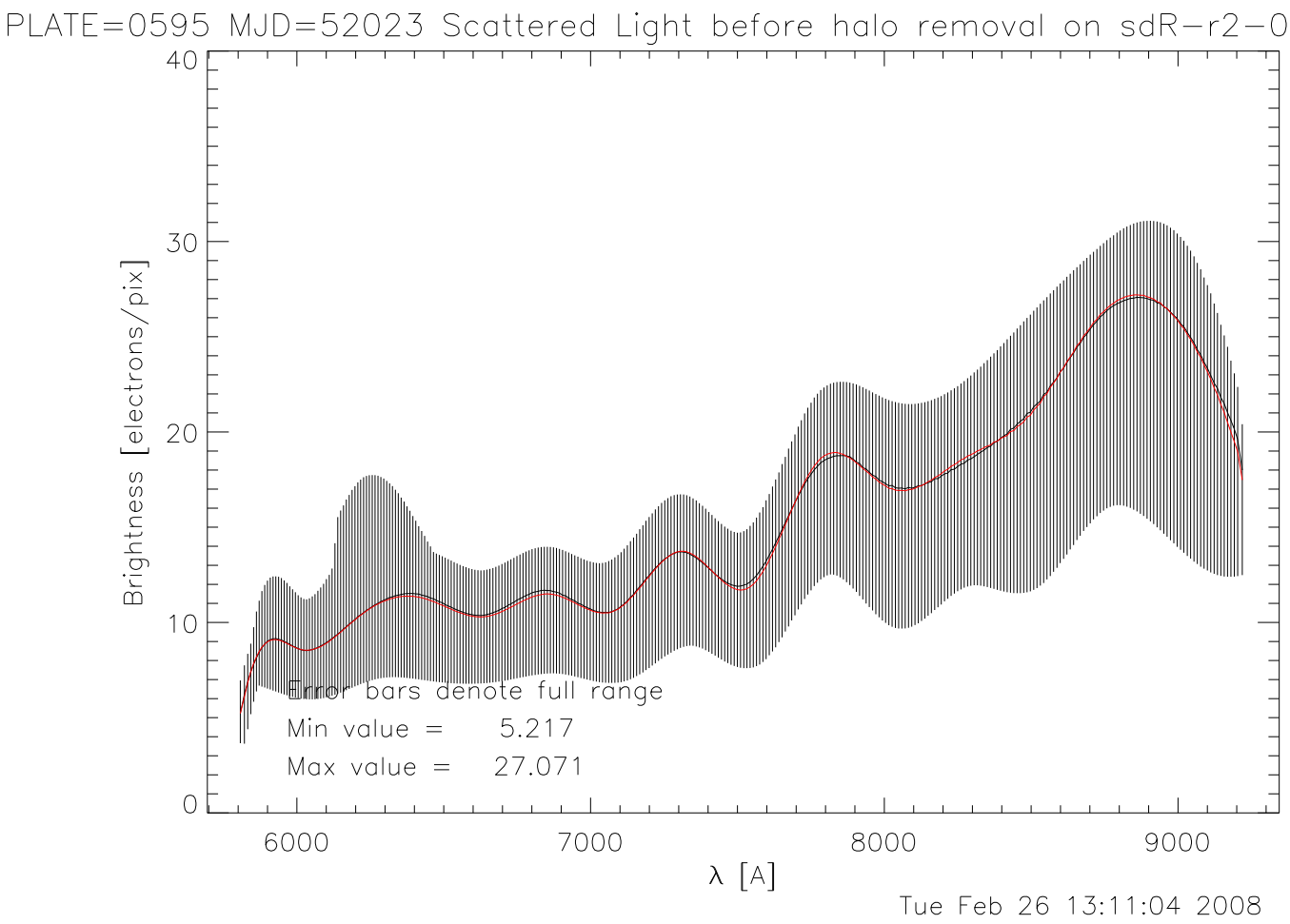

PLATE=0595 MJD=52023 flat extraction chi^2 for sdR−r2−00009702.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

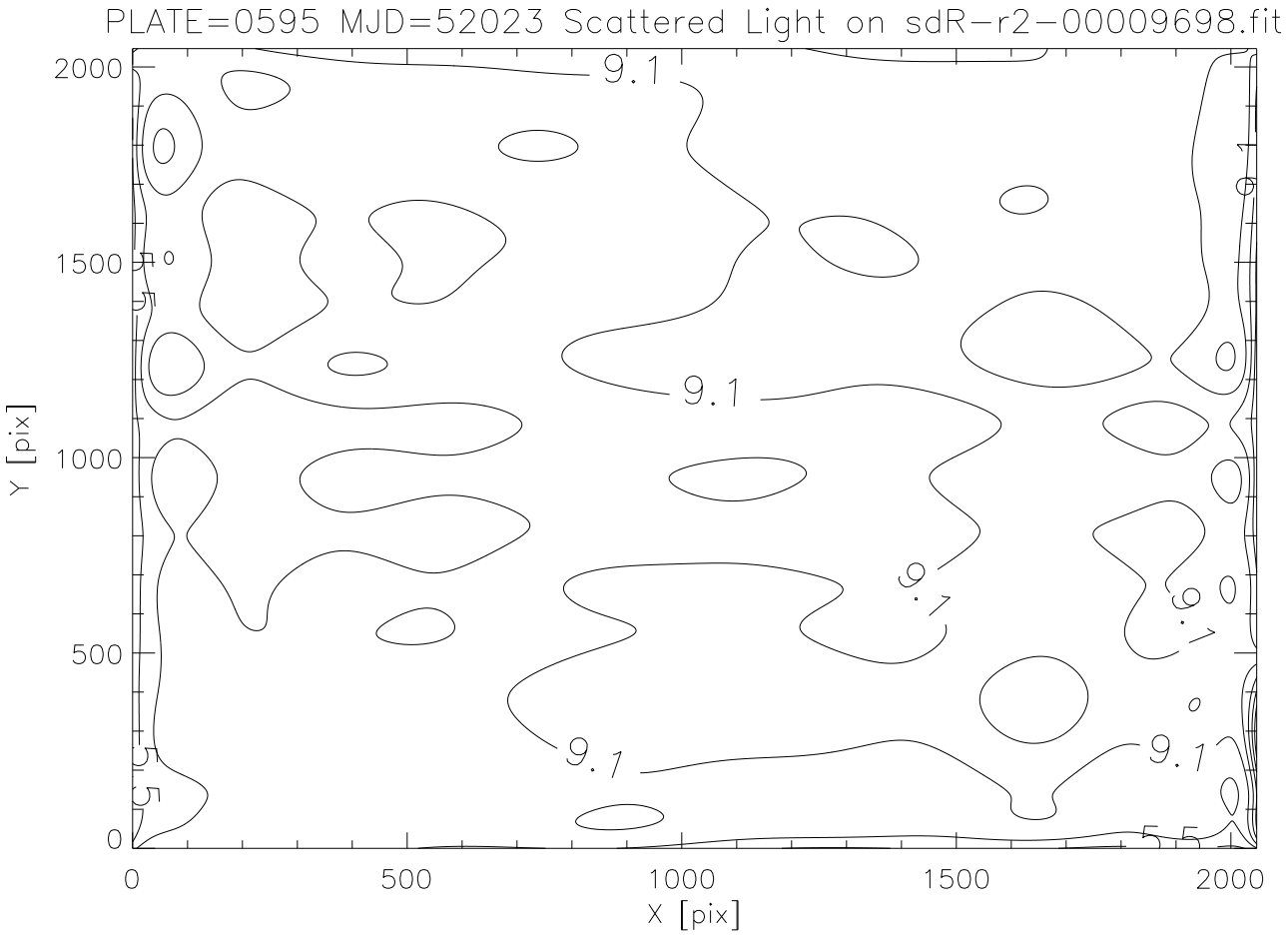

PLATE=0595 MJD=52023 Superflat sdR-r2-00009702.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

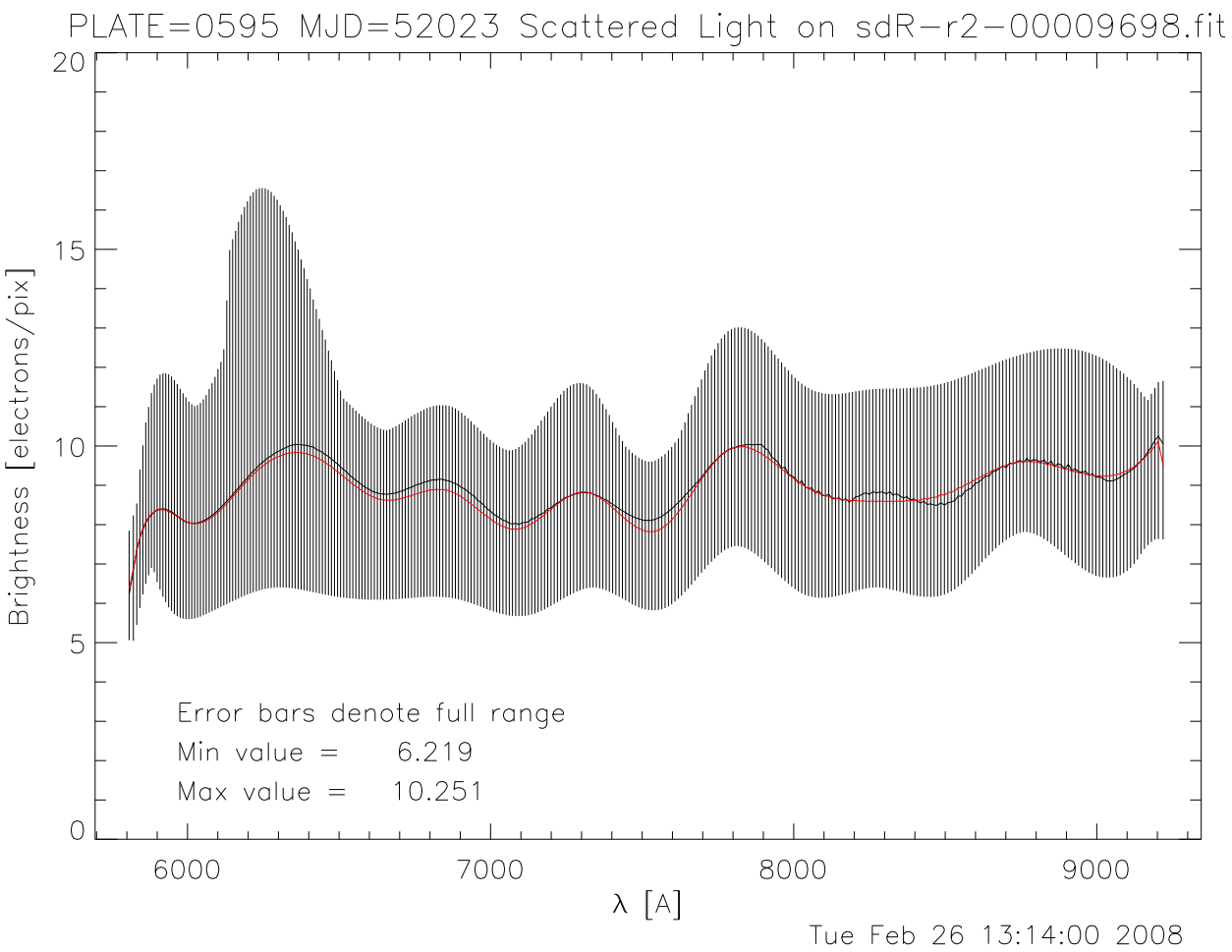

PLATE=0595 MJD=52023 Arcline Fit for sdR-r2-00009703.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Tue Feb 26 13:10:00 2008

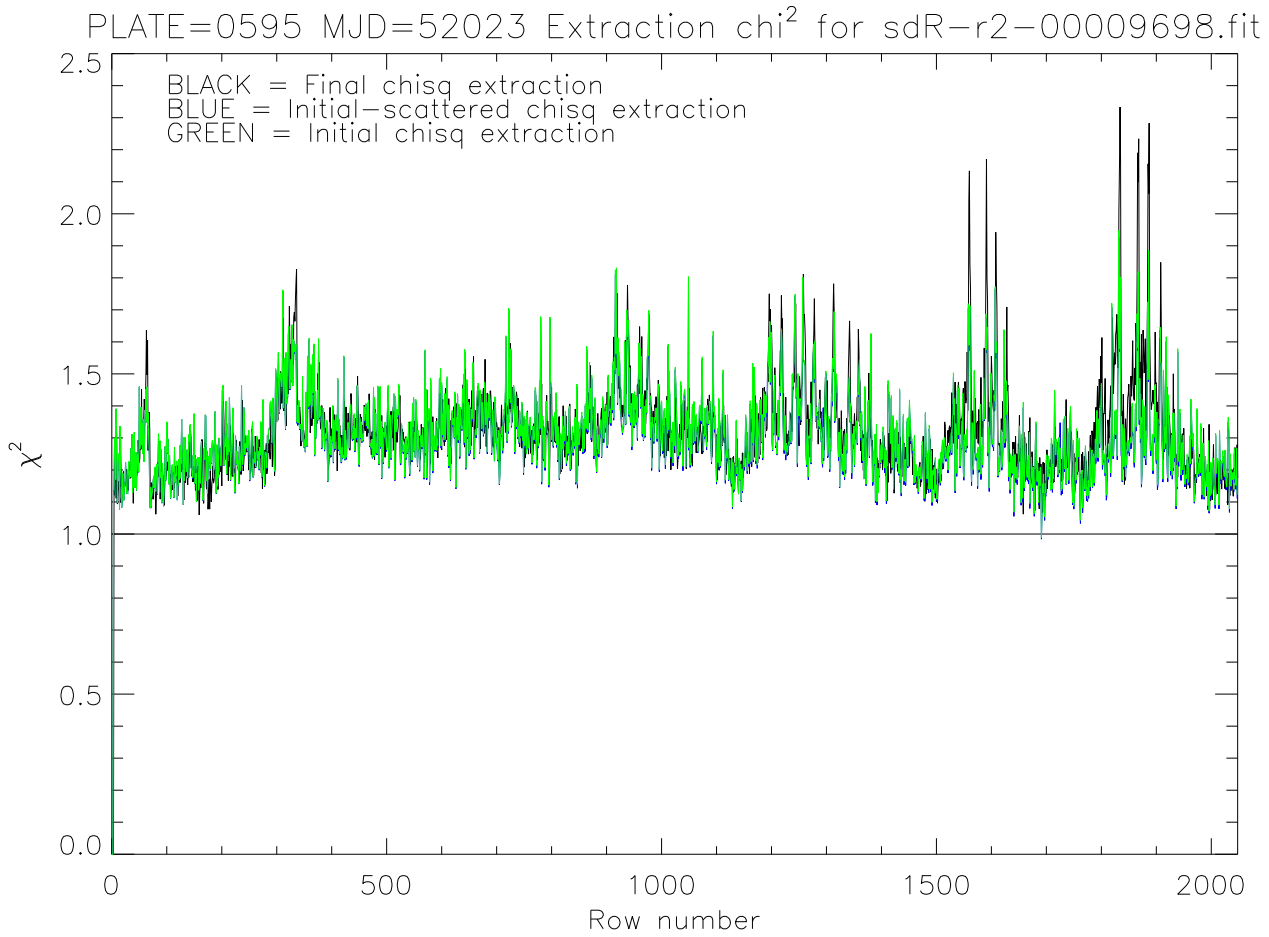

PLATE=0595 MJD=52023 Fiber−Flats for sdR−r2−00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.568
Max value = 1.289
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 13:10:09 2008

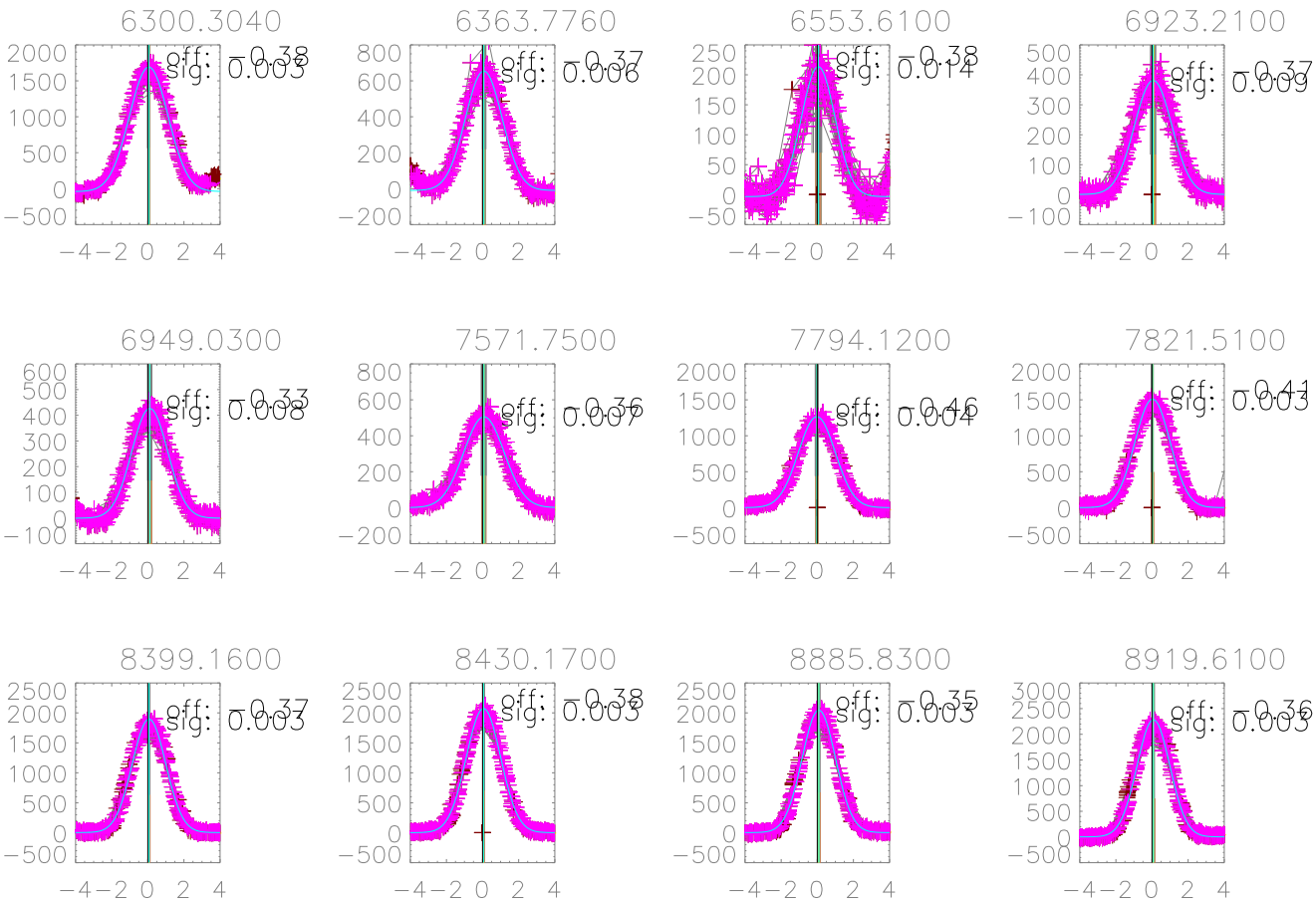

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR−r2−00009698.fi
42.5
22.3
22.3
15.9
15.9
15.9
9.5
9.5
9.5
9.5
9.5
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

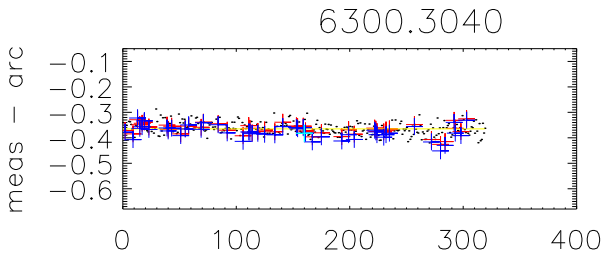

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-r2-00009698.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.217
Max value = 27.071
Tue Feb 26 13:11:04 2008

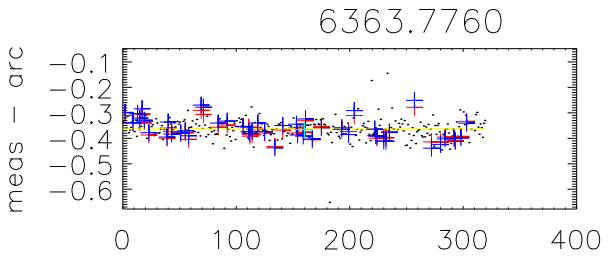

PLATE=0595 MJD=52023 Scattered Light on sdR-r2-00009698.fit
9.1
9.1
9.1
9.1
9.1
5.5
5.5
5.5
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

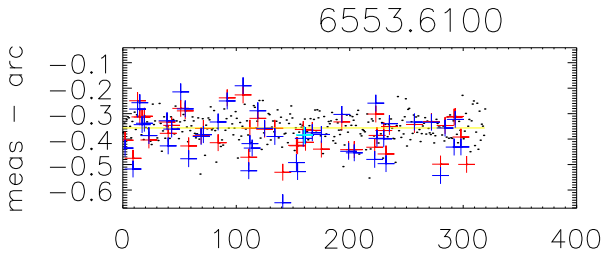

PLATE=0595 MJD=52023 Scattered Light on sdR-r2-00009698.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.219
Max value = 10.251
Tue Feb 26 13:14:00 2008

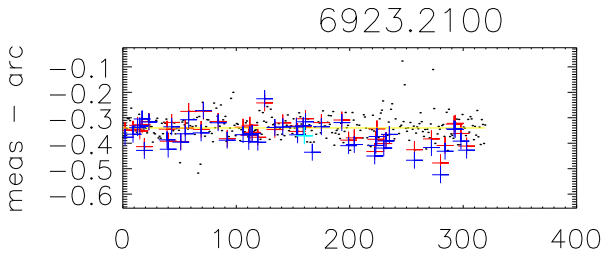

PLATE=0595 MJD=52023 Extraction chi^2 for sdR−r2−00009698.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

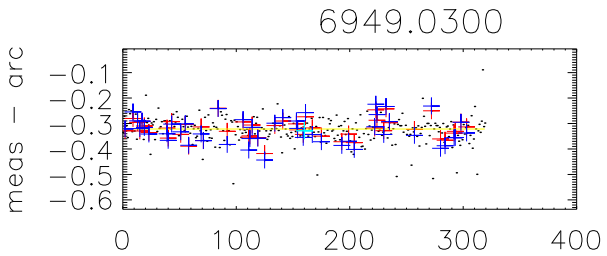

6300.3040
off: −0.38
sig: 0.003
6363.7760
off: −0.37
sig: 0.006
6553.6100
off: −0.38
sig: 0.014
6923.2100
off: −0.37
sig: 0.009
6949.0300
off: −0.33
sig: 0.008
7571.7500
off: −0.36
sig: 0.007
7794.1200
off: −0.46
sig: 0.004
7821.5100
off: −0.41
sig: 0.003
8399.1600
off: −0.37
sig: 0.003
8430.1700
off: −0.38
sig: 0.003
8885.8300
off: −0.35
sig: 0.003
8919.6100
off: −0.36
sig: 0.003

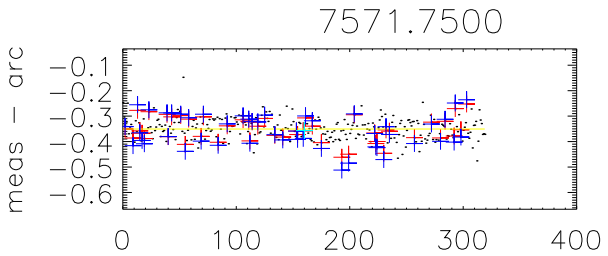

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

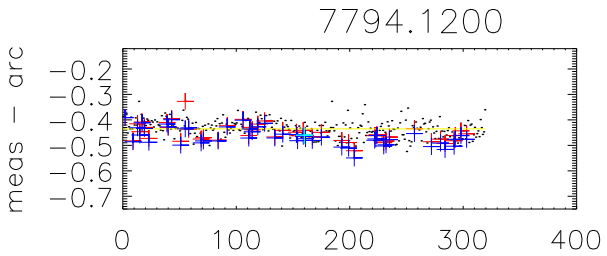

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

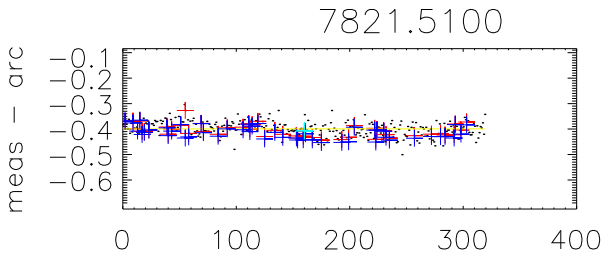

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

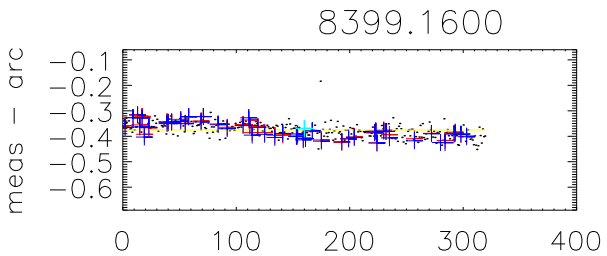

6923.2100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

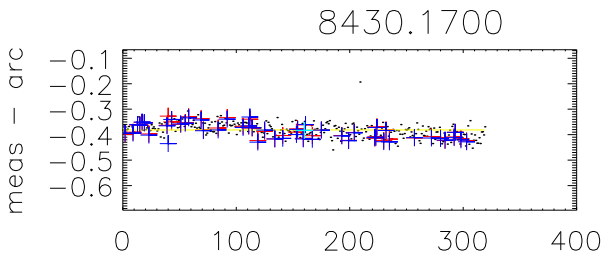

6949.0300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

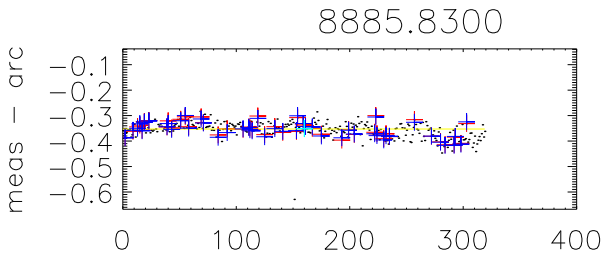

7571.7500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

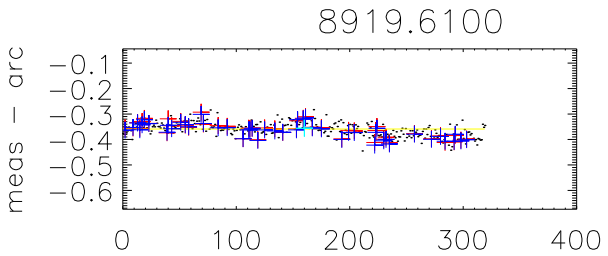

7794.1200
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

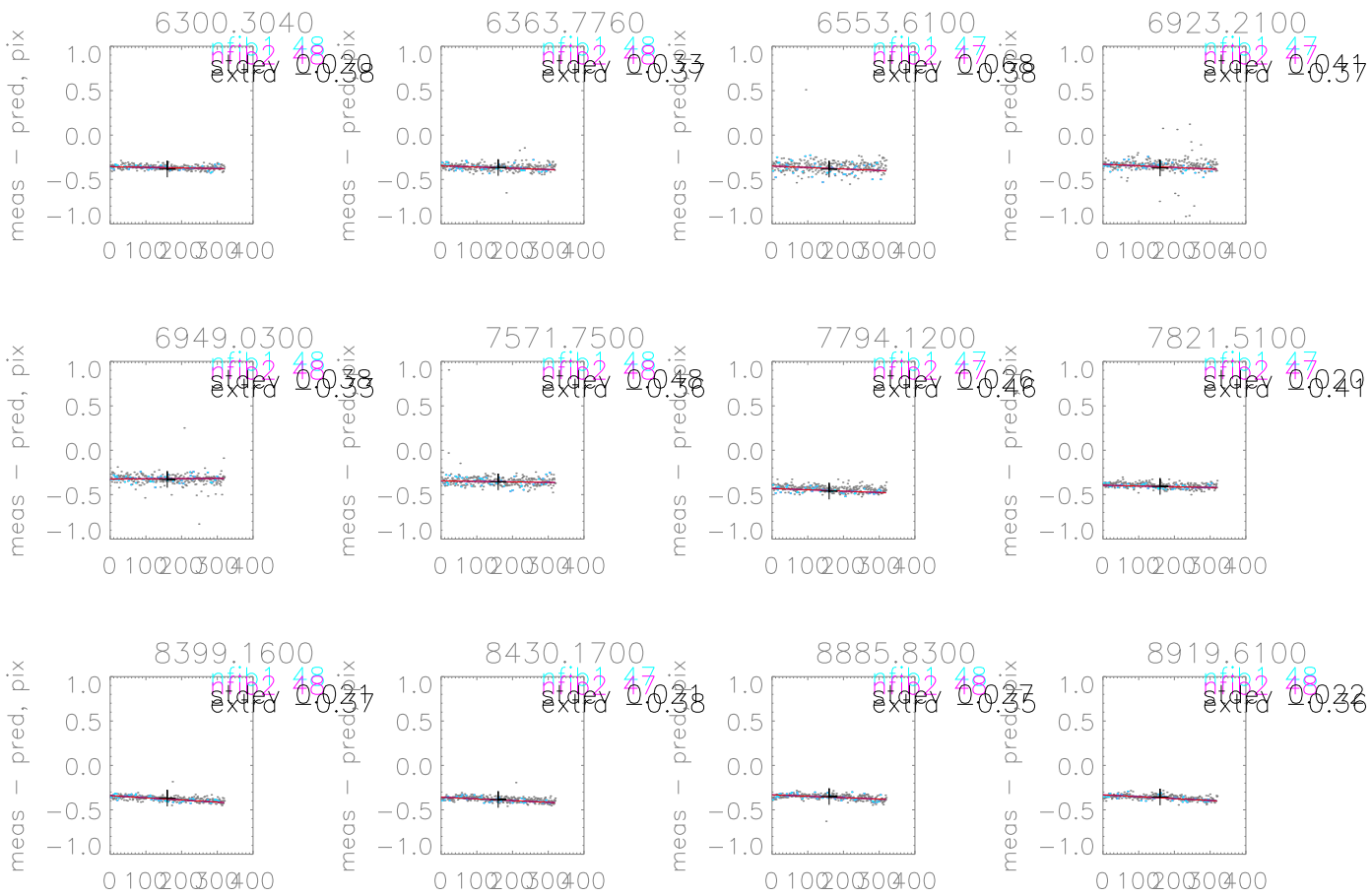

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

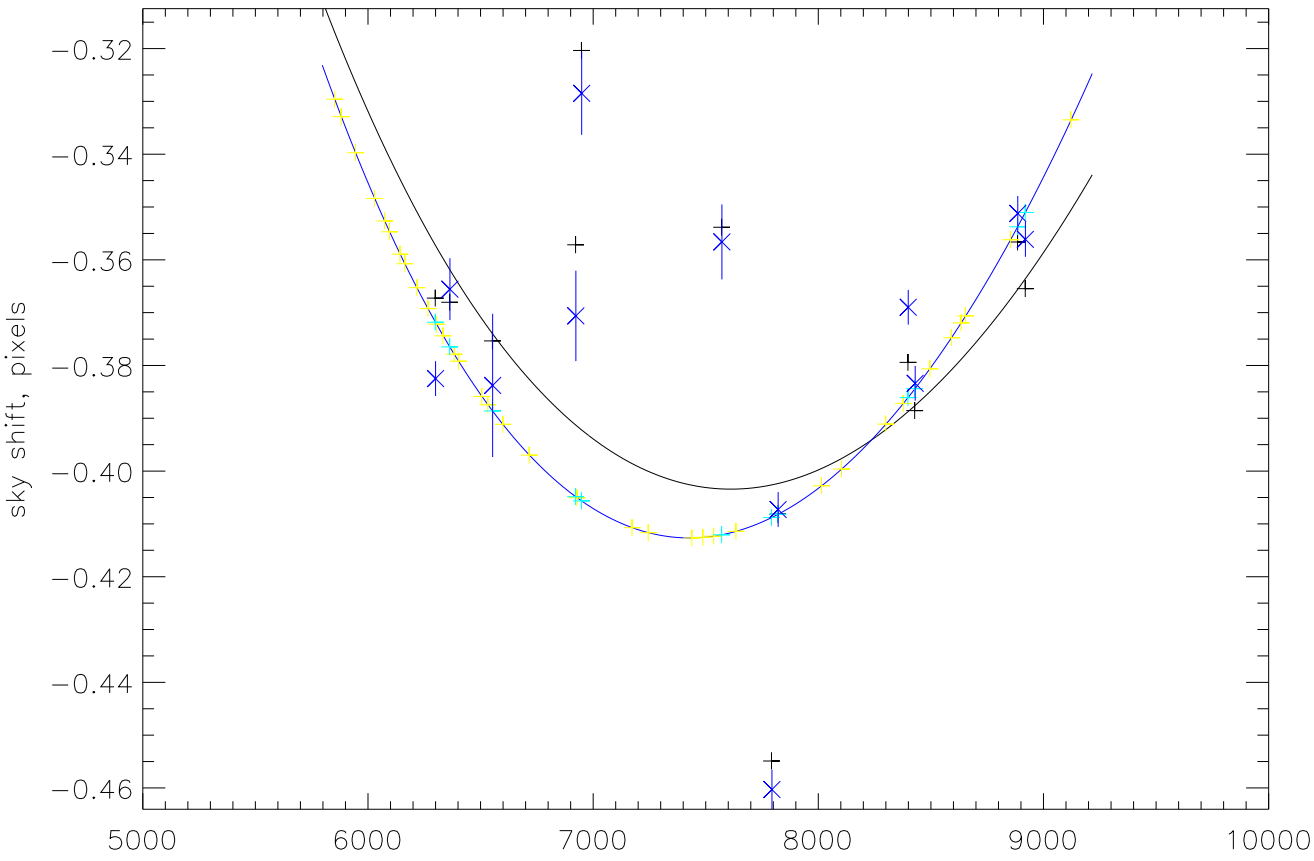

8399.1600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

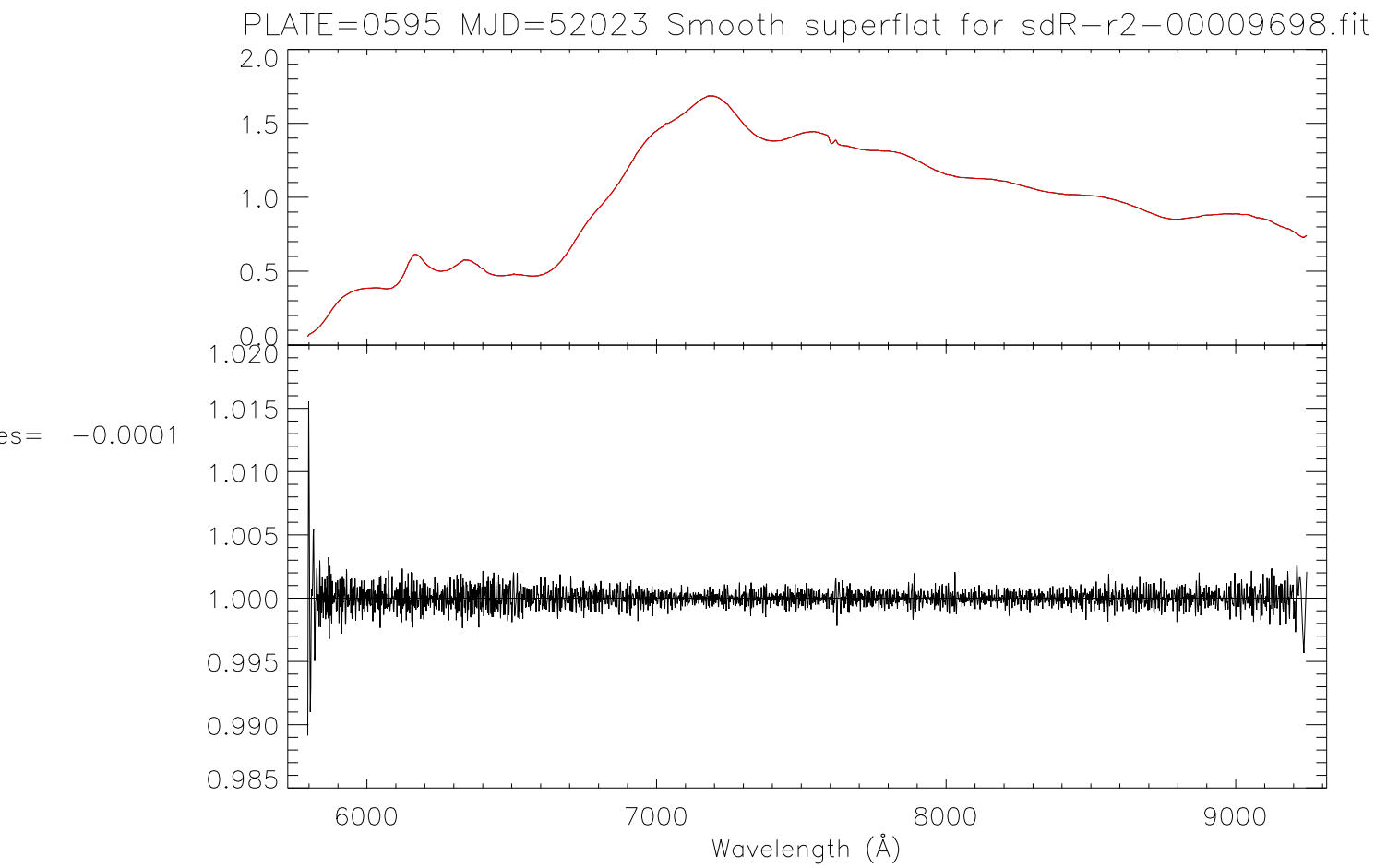

8430.1700
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


8885.8300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

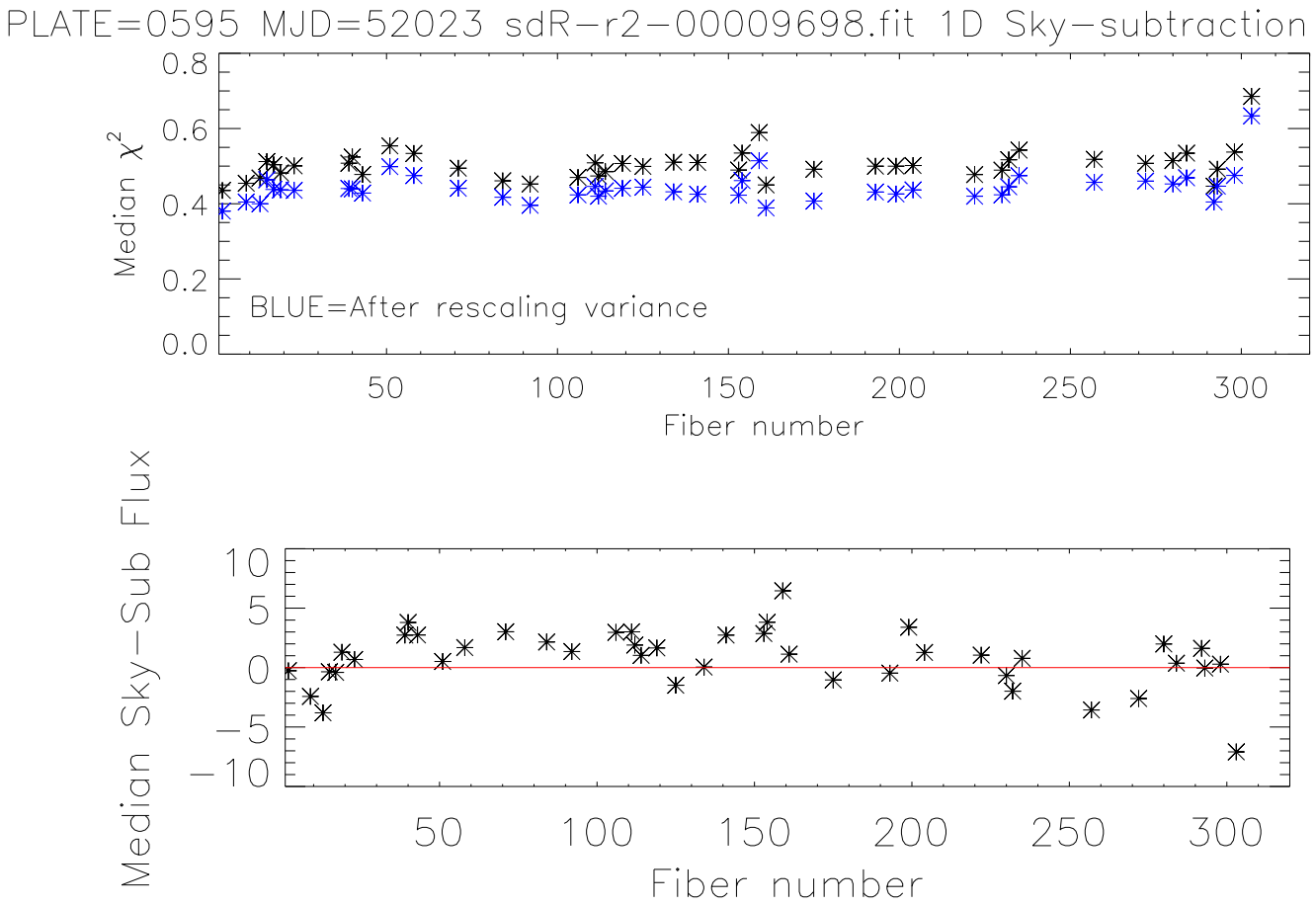

8919.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

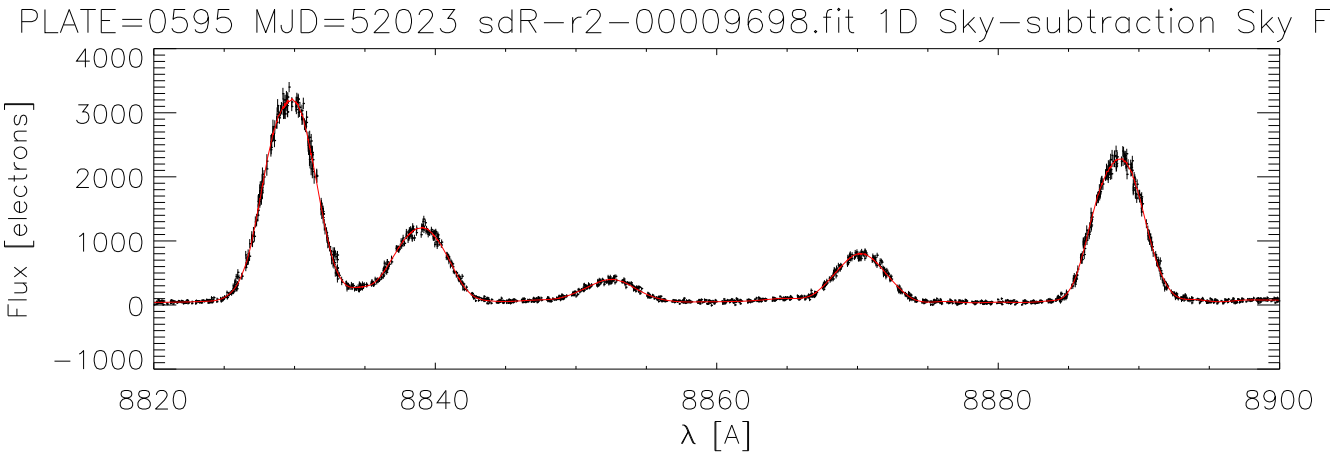

6300.3040
mfhi1 48
mfhi2 08
stdev 0.020
extra -0.38
6363.7760
mfhi1 48
mfhi2 08
stdev 0.033
extra -0.37
6553.6100
mfhi1 47
mfhi2 07
stdev 0.068
extra -0.58
6923.2100
mfhi1 47
mfhi2 07
stdev 0.041
extra -0.37
6949.0300
mfhi1 48
mfhi2 08
stdev 0.038
extra -0.33
7571.7500
mfhi1 48
mfhi2 08
stdev 0.048
extra -0.36
7794.1200
mfhi1 47
mfhi2 07
stdev 0.026
extra -0.46
7821.5100
mfhi1 47
mfhi2 07
stdev 0.020
extra -0.41
8399.1600
mfhi1 48
mfhi2 08
stdev 0.021
extra -0.37
8430.1700
mfhi1 47
mfhi2 07
stdev 0.021
extra -0.38
8885.8300
mfhi1 48
mfhi2 08
stdev 0.027
extra -0.35
8919.6100
mfhi1 48
mfhi2 08
stdev 0.022
extra -0.36
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

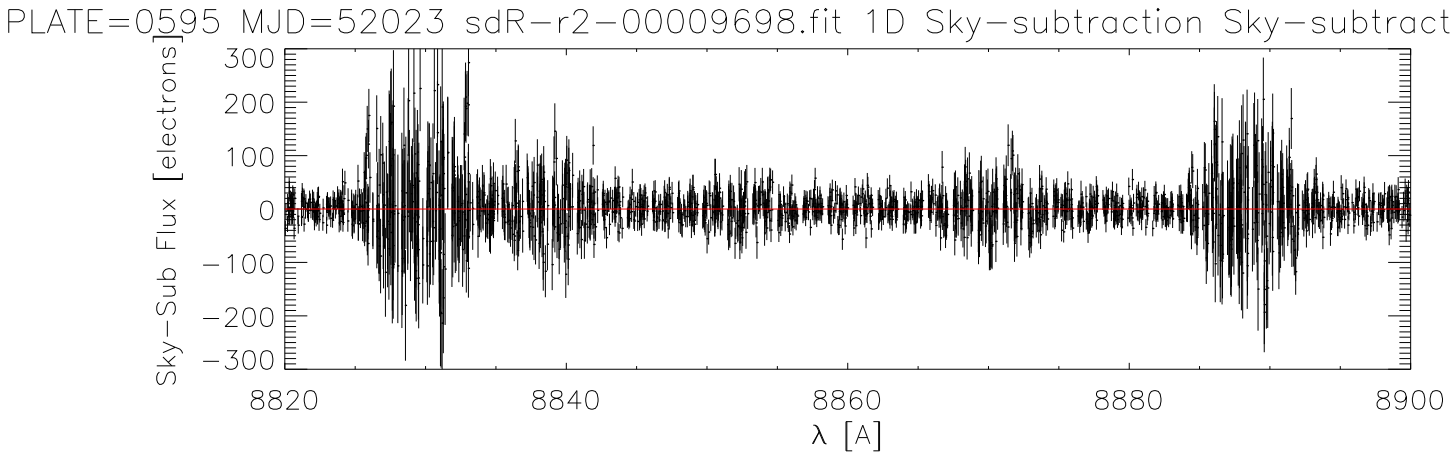

−0.32
−0.34
−0.36
−0.38
−0.40
−0.42
−0.44
−0.46
sky shift, pixels
5000
6000
7000
8000
9000
10000

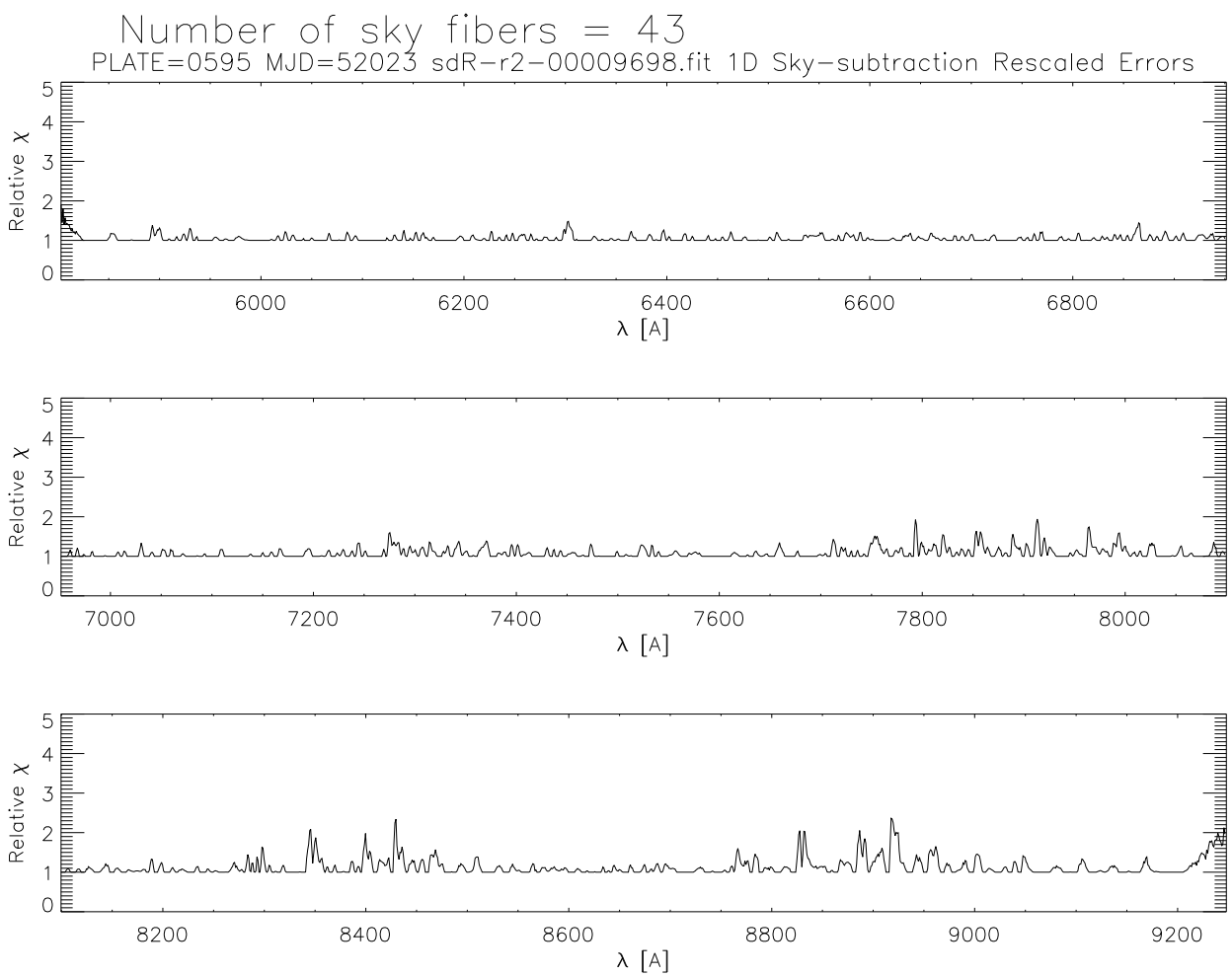

PLATE=0595 MJD=52023 Smooth superflat for sdR-r2-00009698.fit
2.0
1.5
1.0
0.5
0.0
1.020
1.015
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

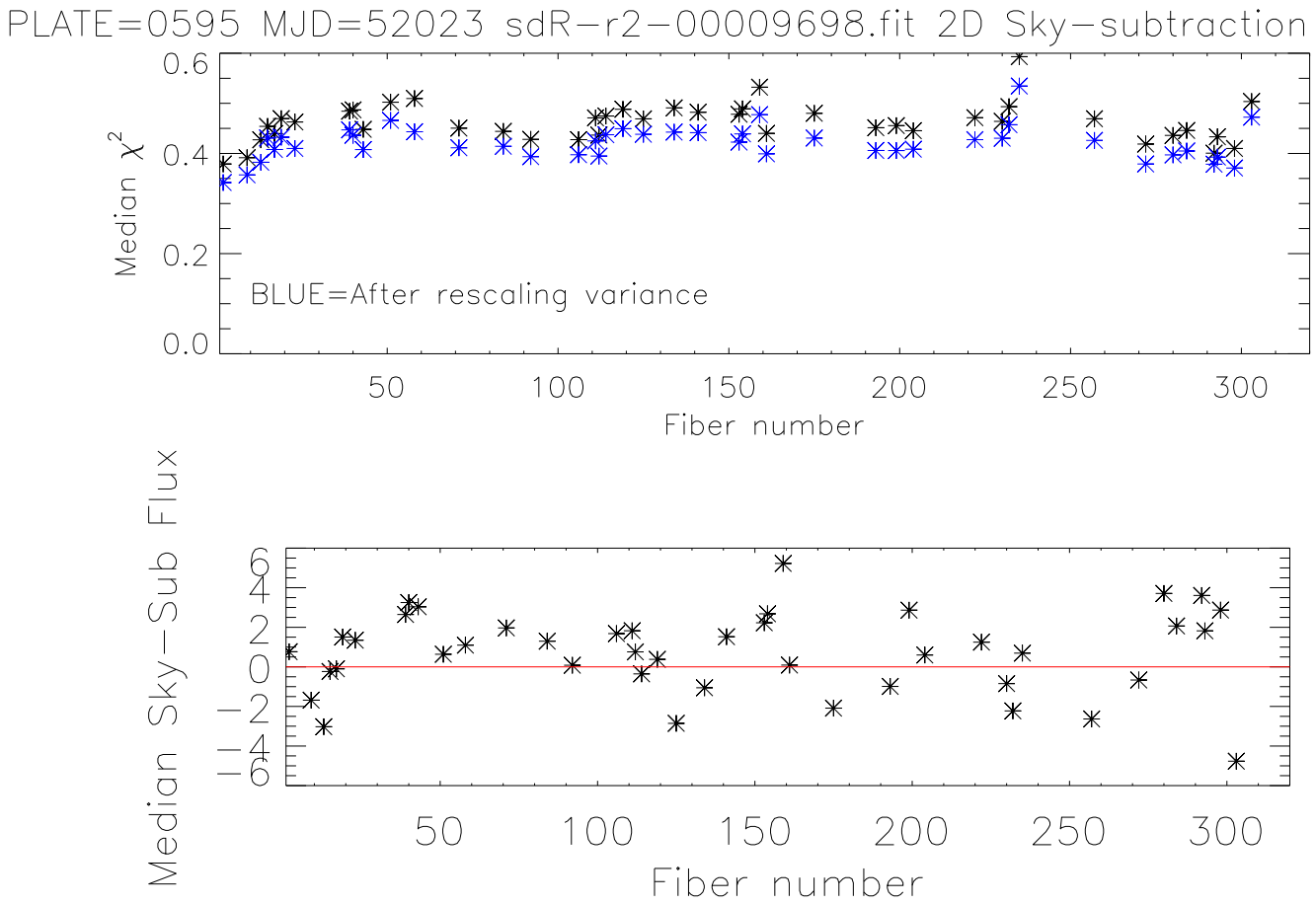
es= −0.0001

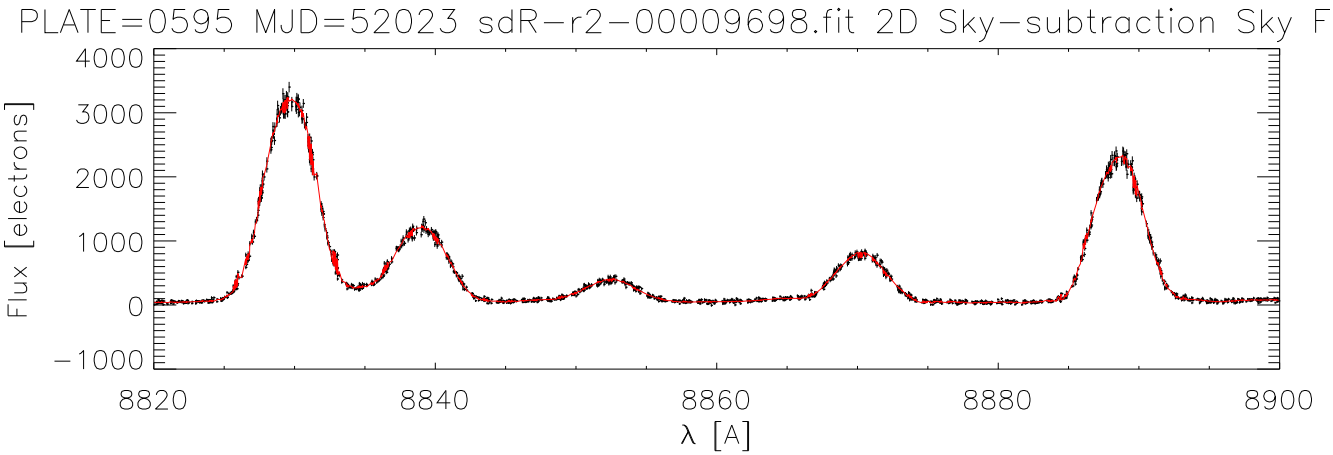

PLATE=0595 MJD=52023 sdR-r2-00009698.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

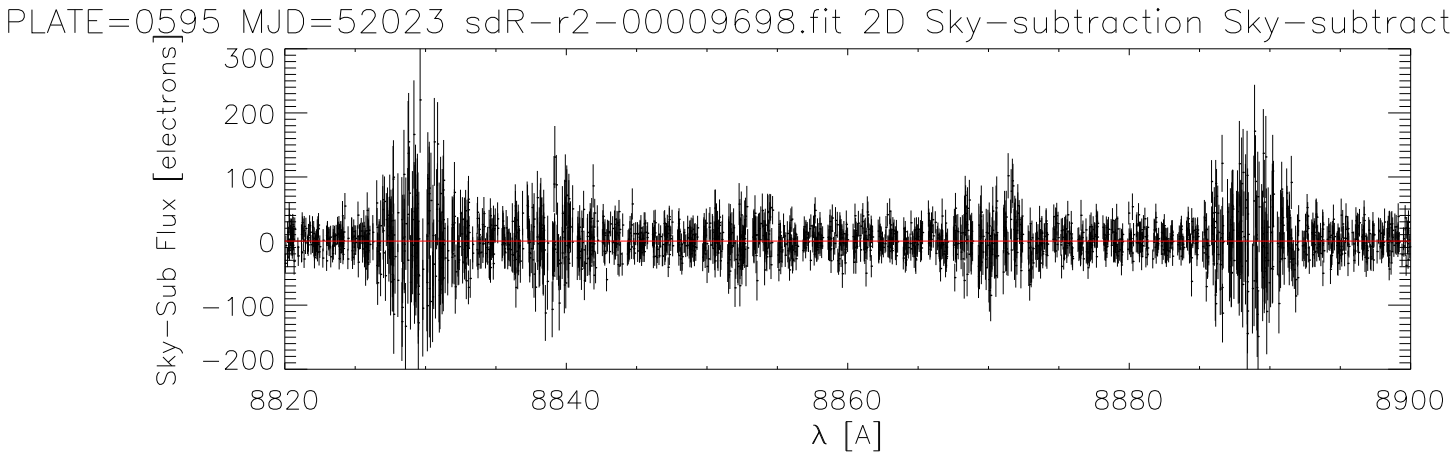

PLATE=0595 MJD=52023 sdR-r2-00009698.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

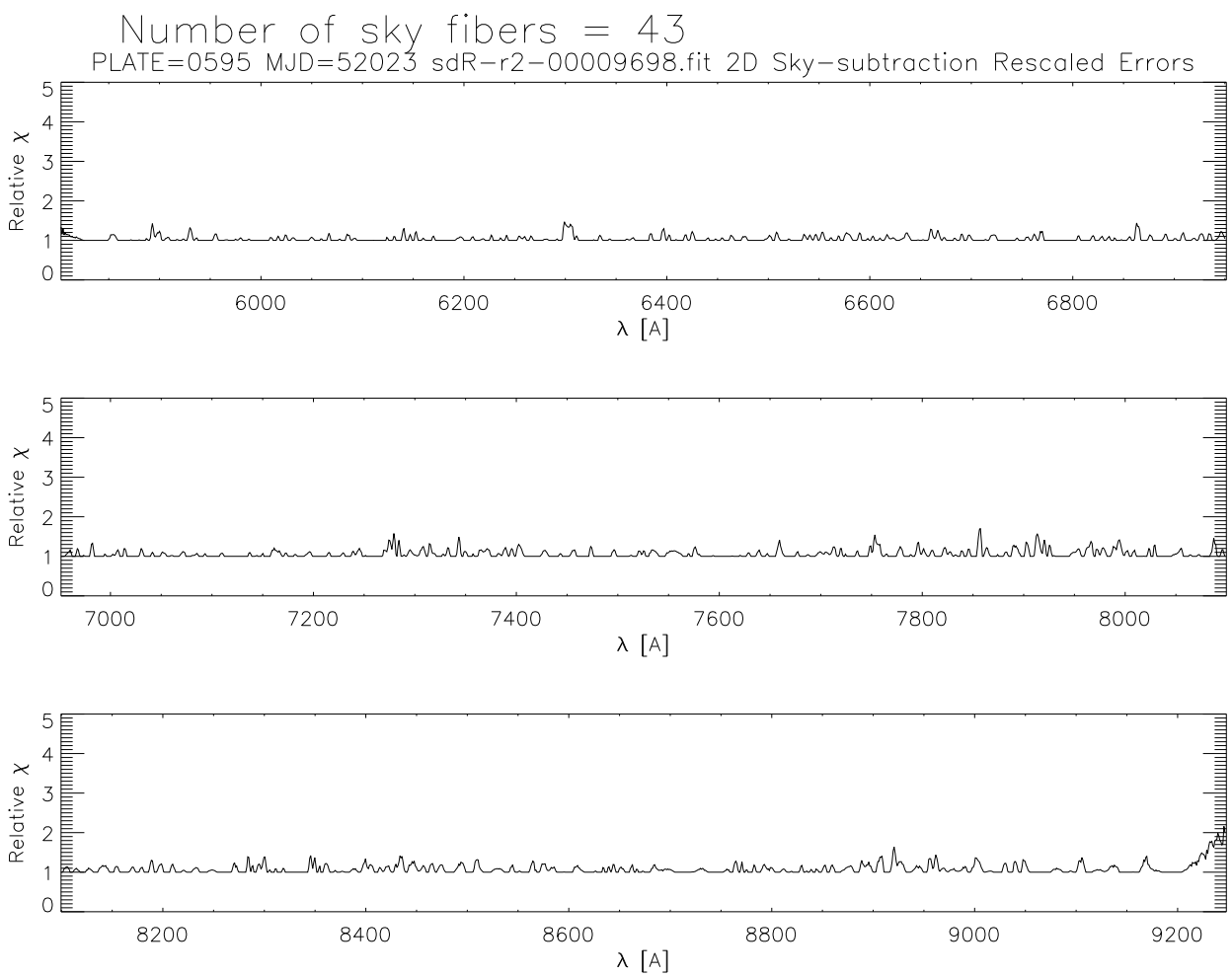

PLATE=0595 MJD=52023 sdR-r2-00009698.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

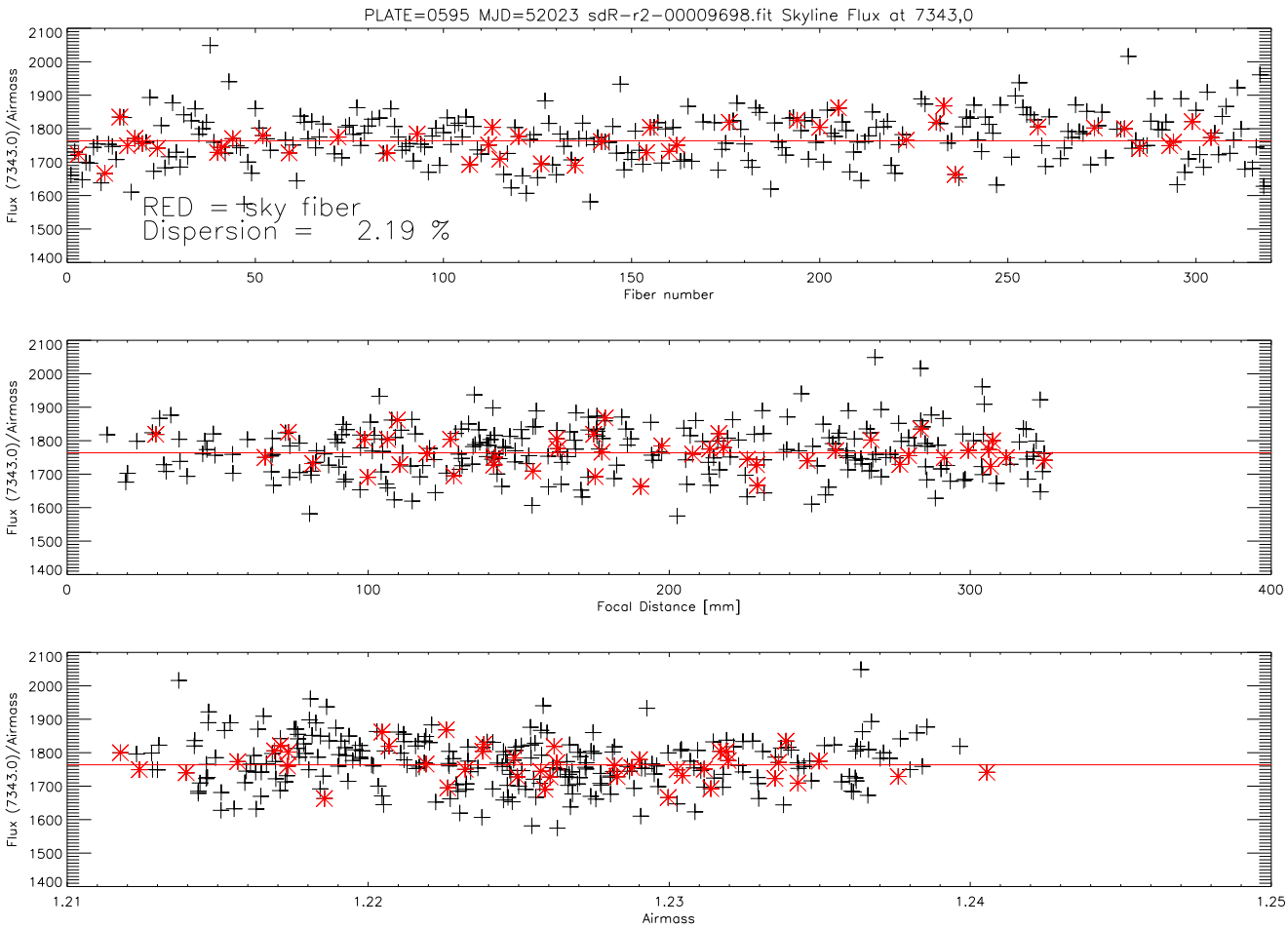

Number of sky fibers = 43
PLATE=0595 MJD=52023 sdR-r2-00009698.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

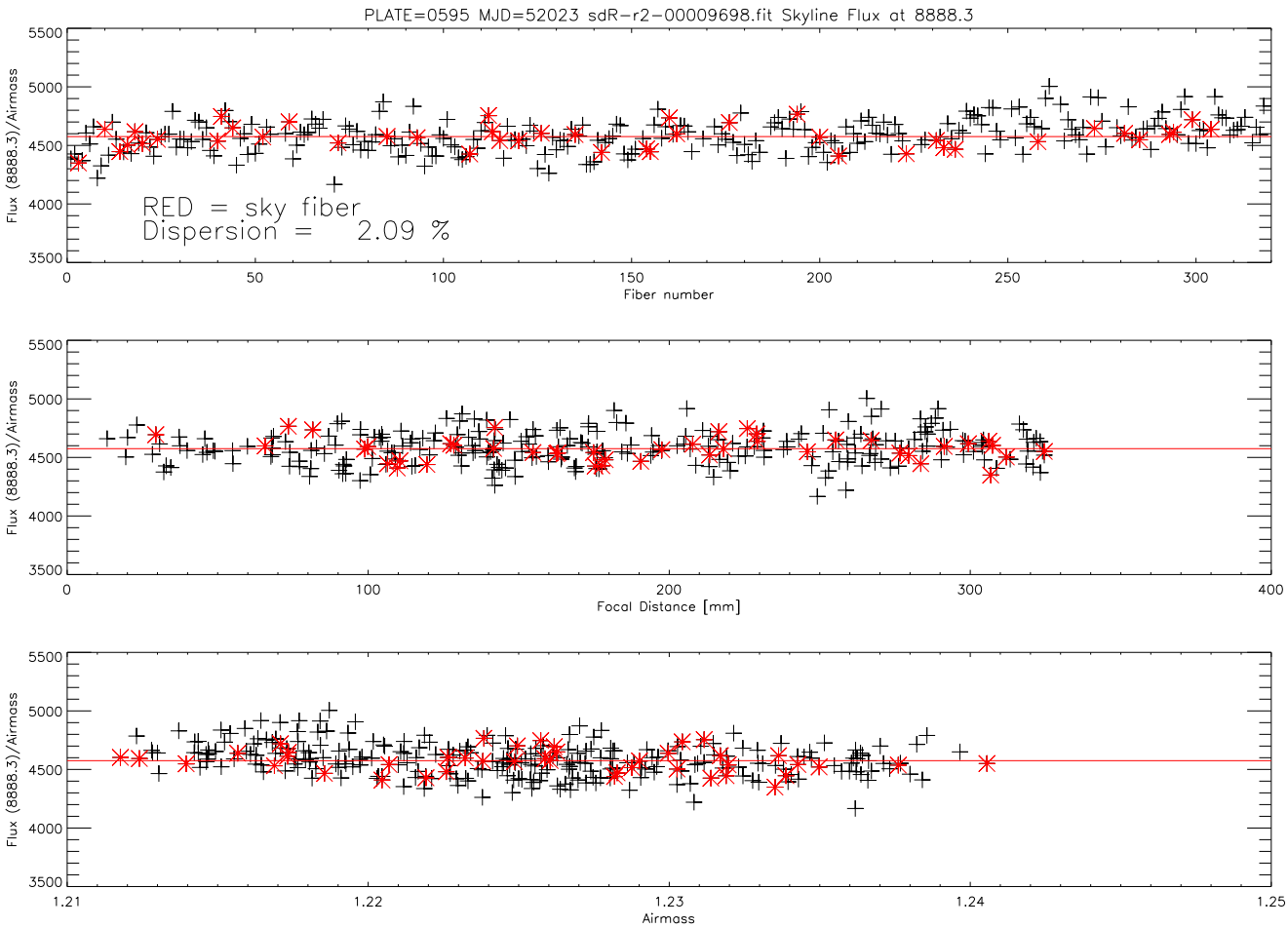

PLATE=0595 MJD=52023 sdR-r2-00009698.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

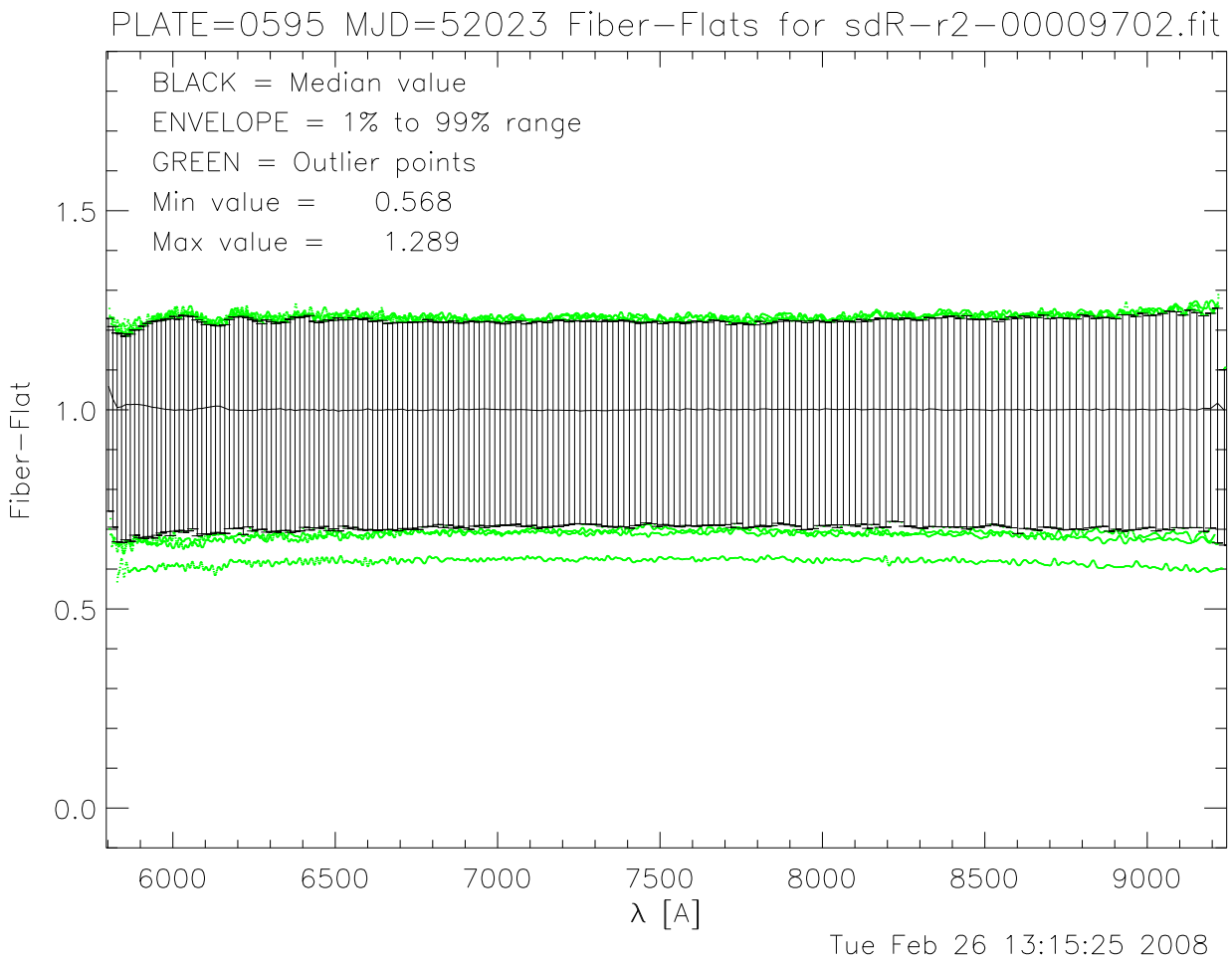

PLATE=0595 MJD=52023 sdR-r2-00009698.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

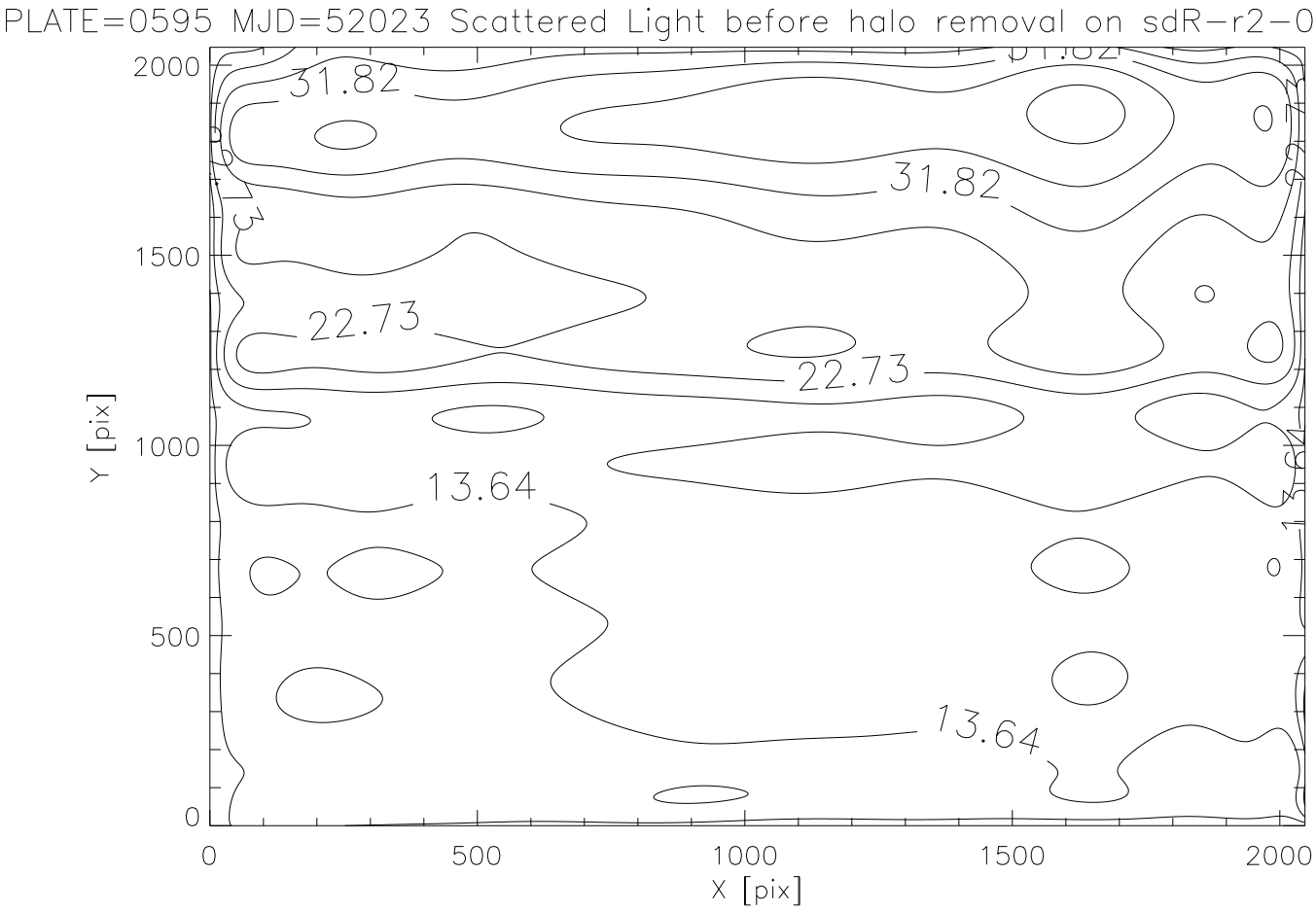

PLATE=0595 MJD=52023 sdR-r2-00009698.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
−100
−200
8820
8840
8860
8880
8900
λ [A]

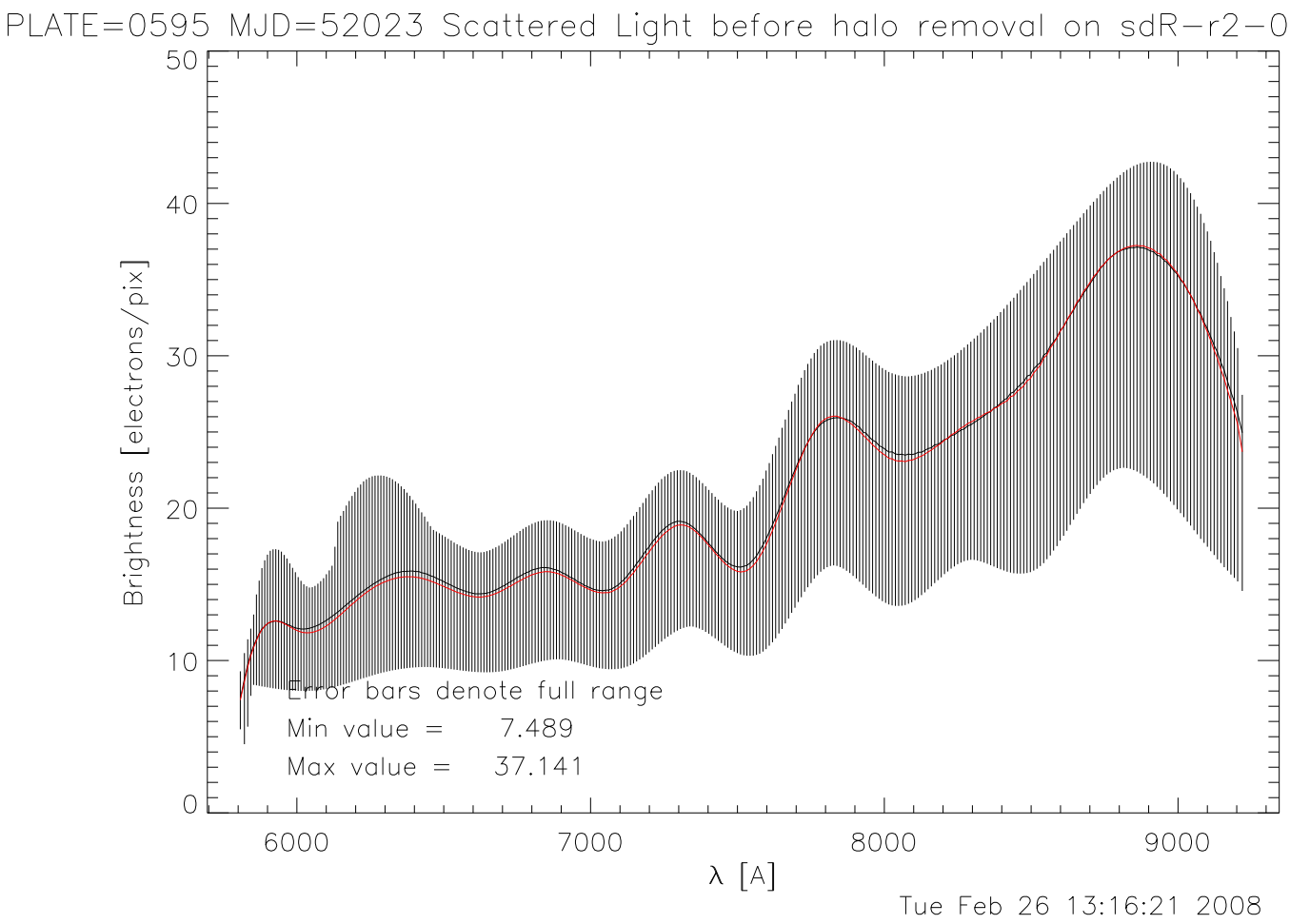

Number of sky fibers = 43
PLATE=0595 MJD=52023 sdR-r2-00009698.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

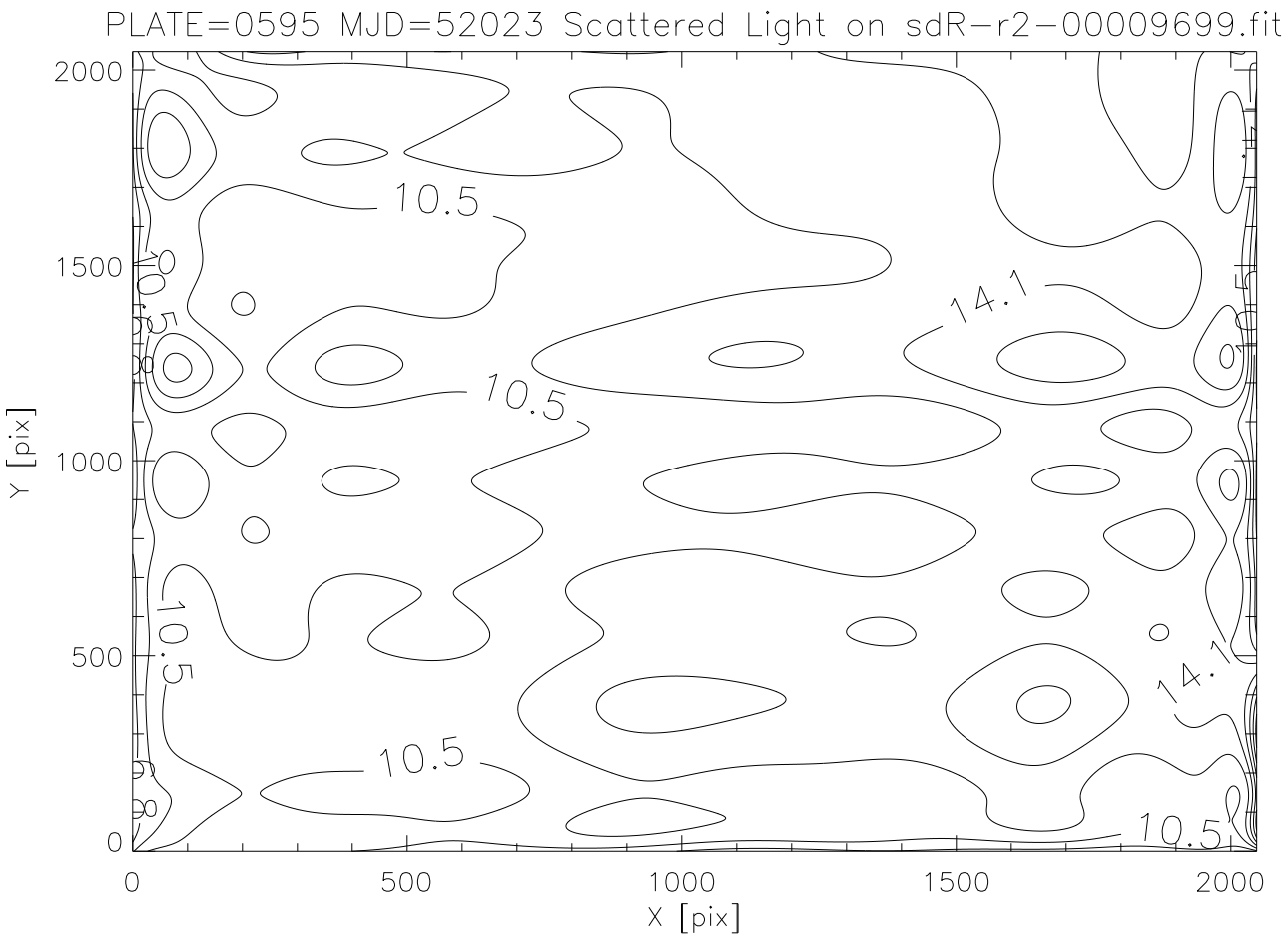

PLATE=0595 MJD=52023 sdR-r2-00009698.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.19 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

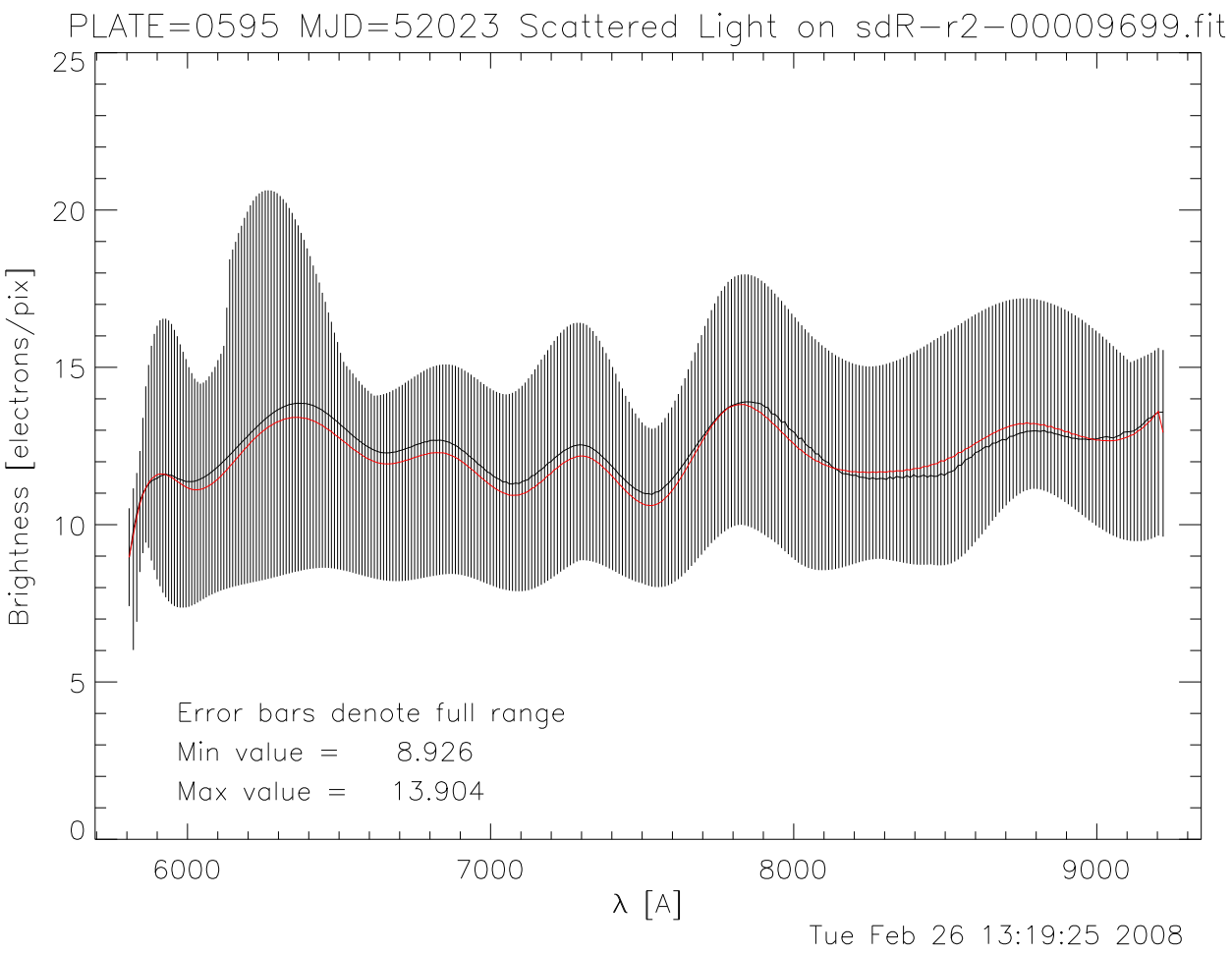

PLATE=0595 MJD=52023 sdR-r2-00009698.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.09 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

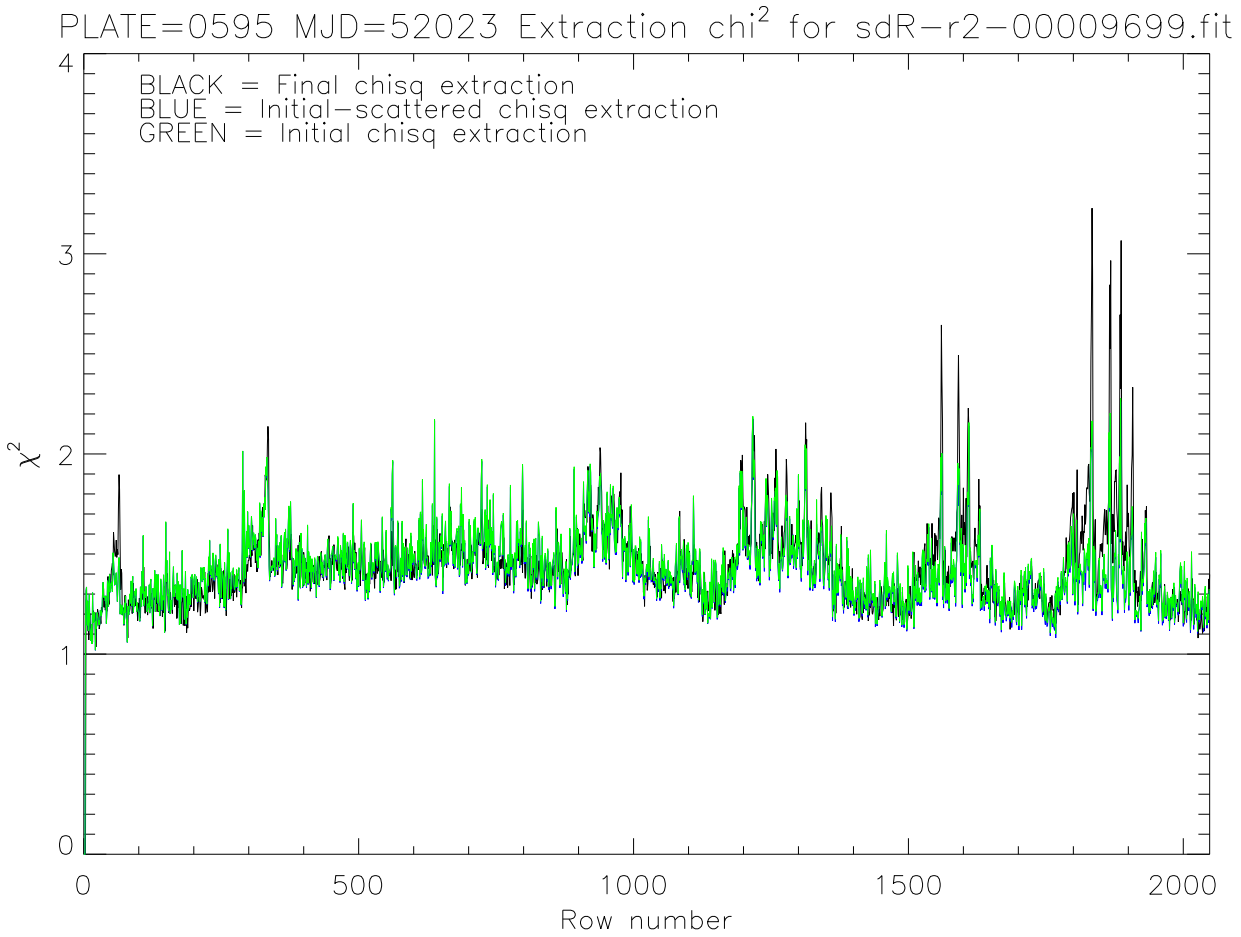

PLATE=0595 MJD=52023 Fiber−Flats for sdR−r2−00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.568
Max value = 1.289
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 13:15:25 2008

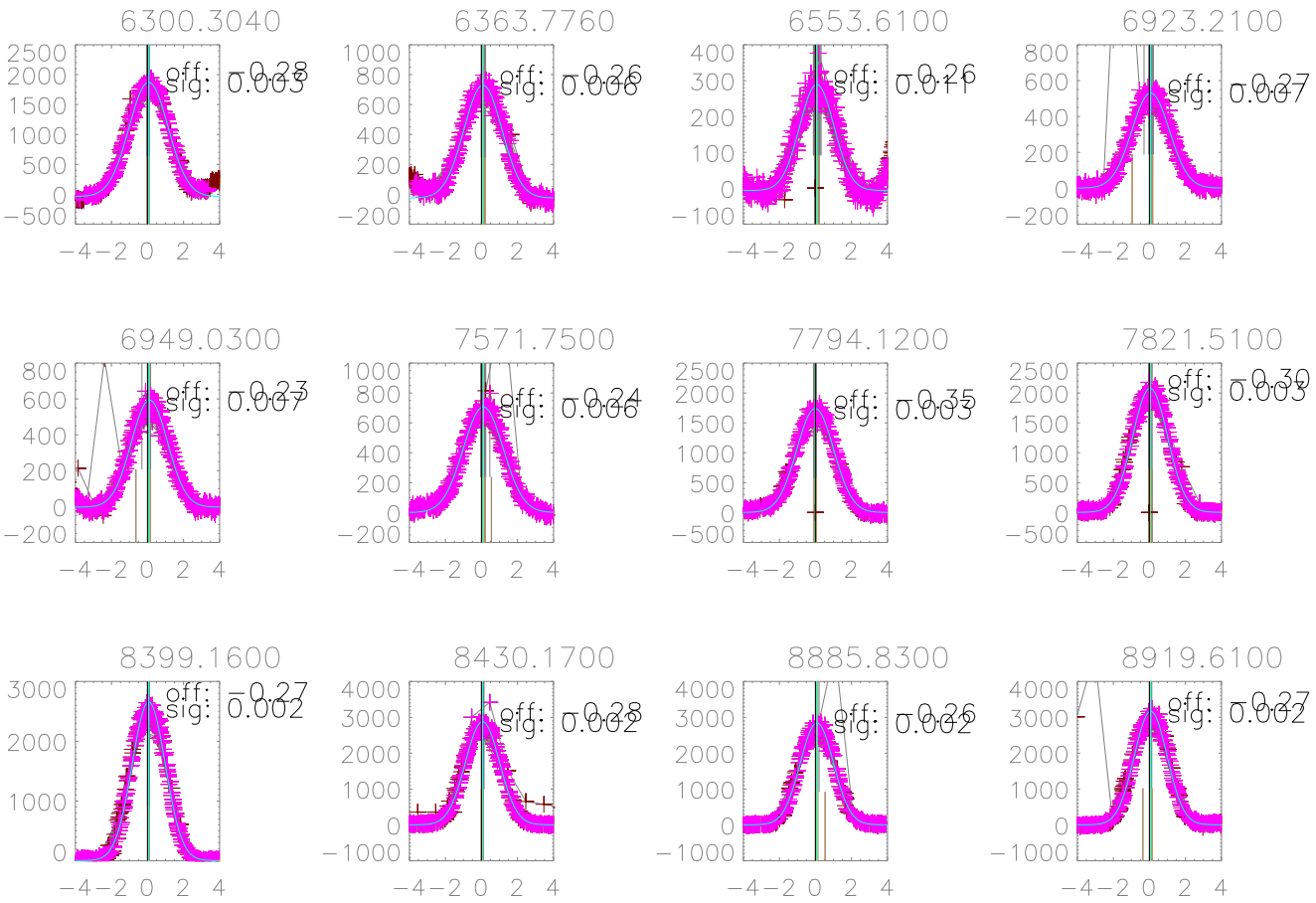

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR−r2−00009699.fi
31.82
31.82
22.73
22.73
13.64
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

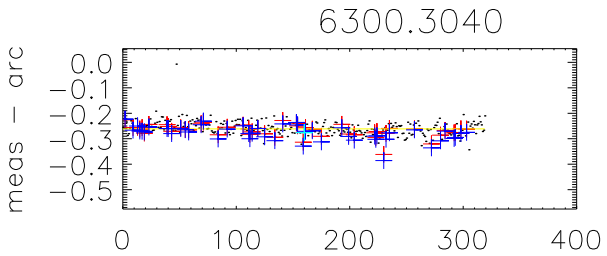

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-r2-00009699.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.489
Max value = 37.141
Tue Feb 26 13:16:21 2008

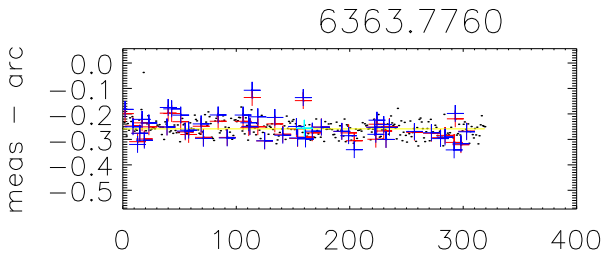

PLATE=0595 MJD=52023 Scattered Light on sdR-r2-00009699.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
10.5
14.1

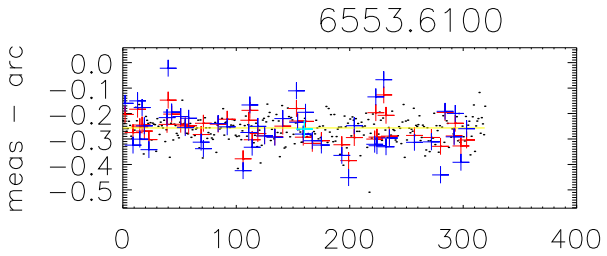

PLATE=0595 MJD=52023 Scattered Light on sdR-r2-00009699.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 8.926
Max value = 13.904
Tue Feb 26 13:19:25 2008

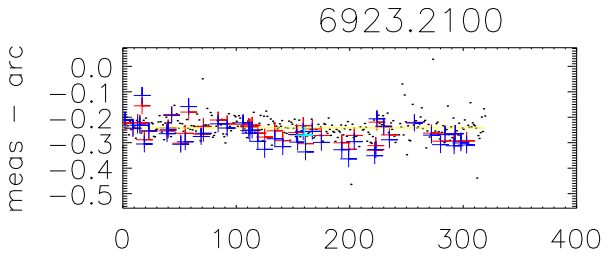

PLATE=0595 MJD=52023 Extraction chi^2 for sdR−r2−00009699.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

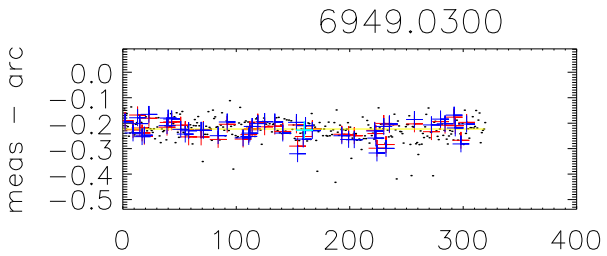

6300.3040
off: −0.28
sig: 0.003
6363.7760
off: −0.26
sig: 0.006
6553.6100
off: −0.26
sig: 0.011
6923.2100
off: −0.27
sig: 0.007
6949.0300
off: −0.23
sig: 0.007
7571.7500
off: −0.24
sig: 0.006
7794.1200
off: −0.35
sig: 0.003
7821.5100
off: −0.30
sig: 0.003
8399.1600
off: −0.27
sig: 0.002
8430.1700
off: −0.28
sig: 0.002
8885.8300
off: −0.26
sig: 0.002
8919.6100
off: −0.27
sig: 0.002

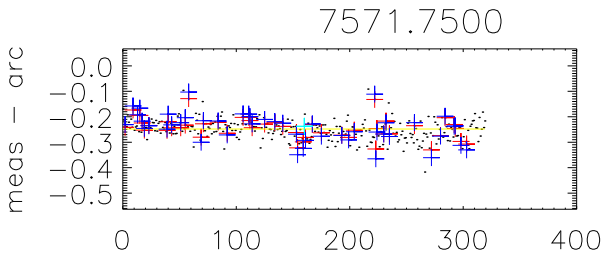

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

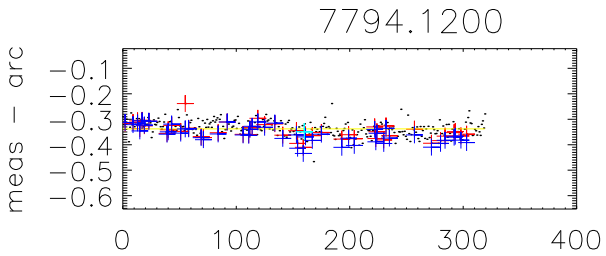

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

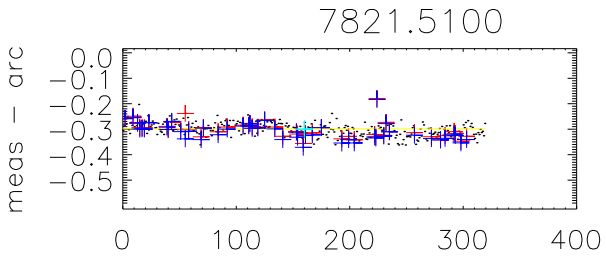

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

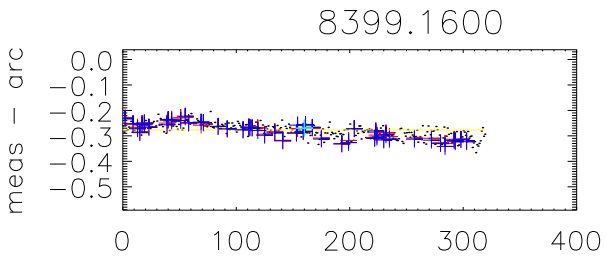

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

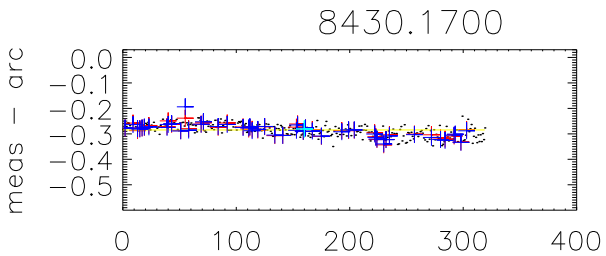

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

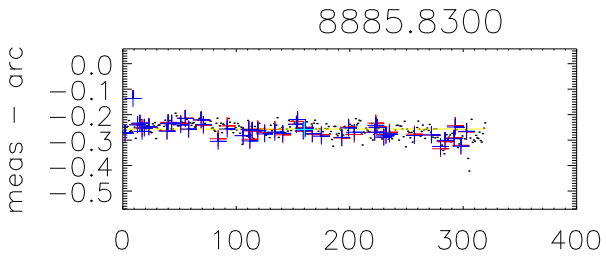

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

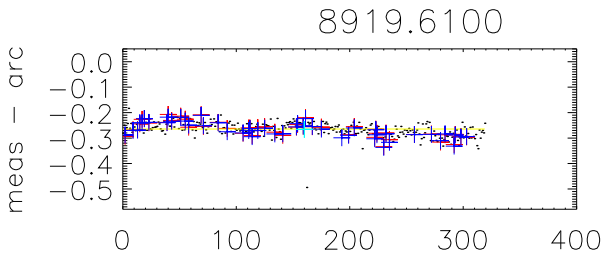

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

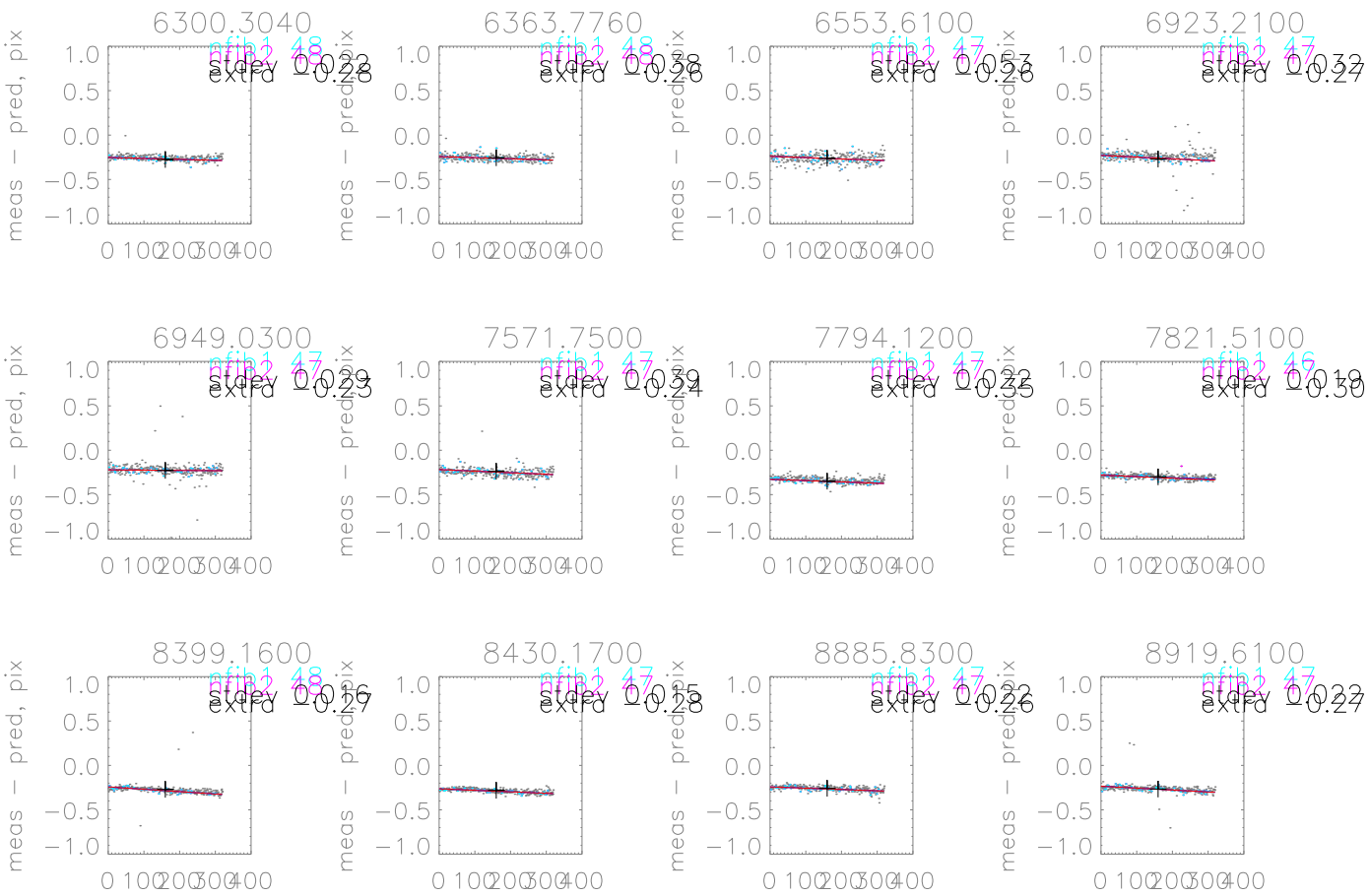

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

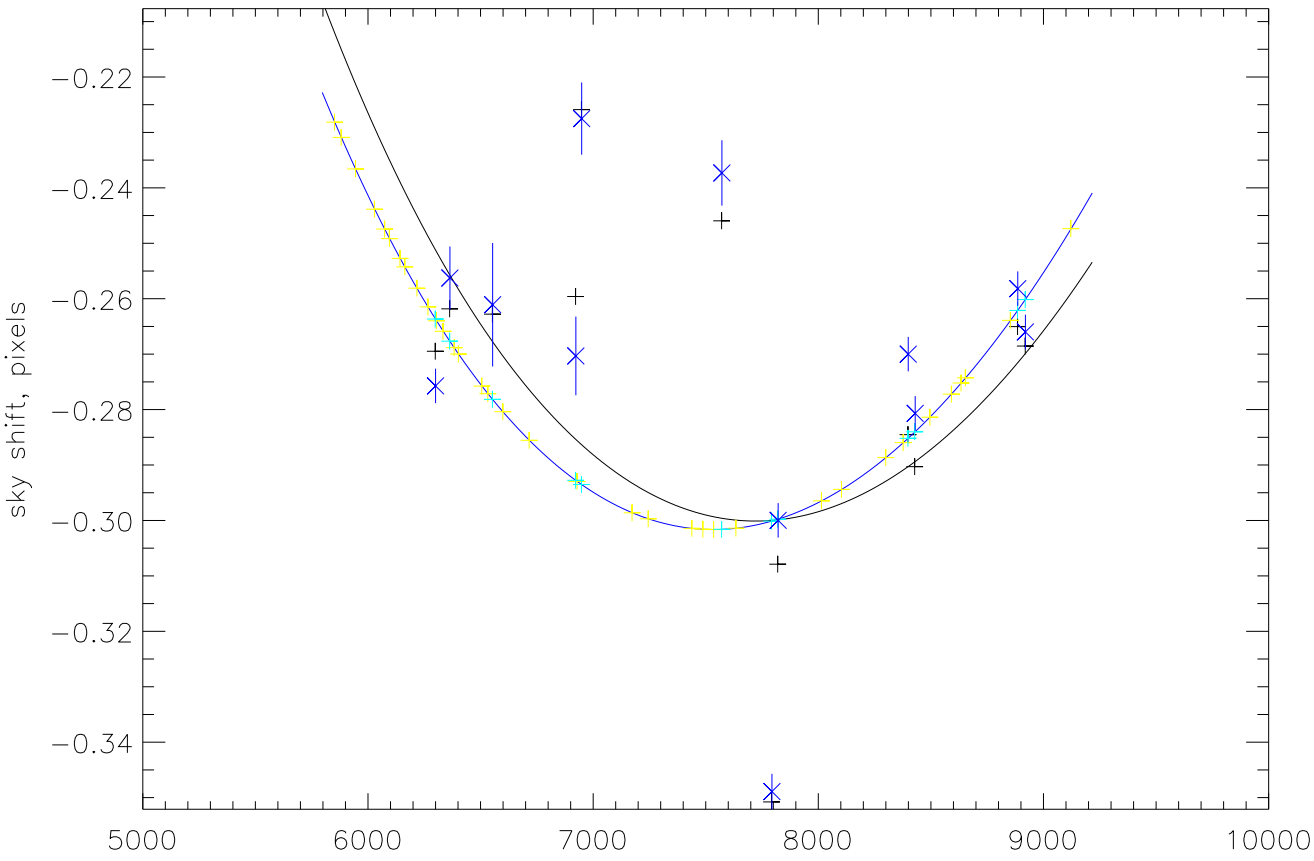

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

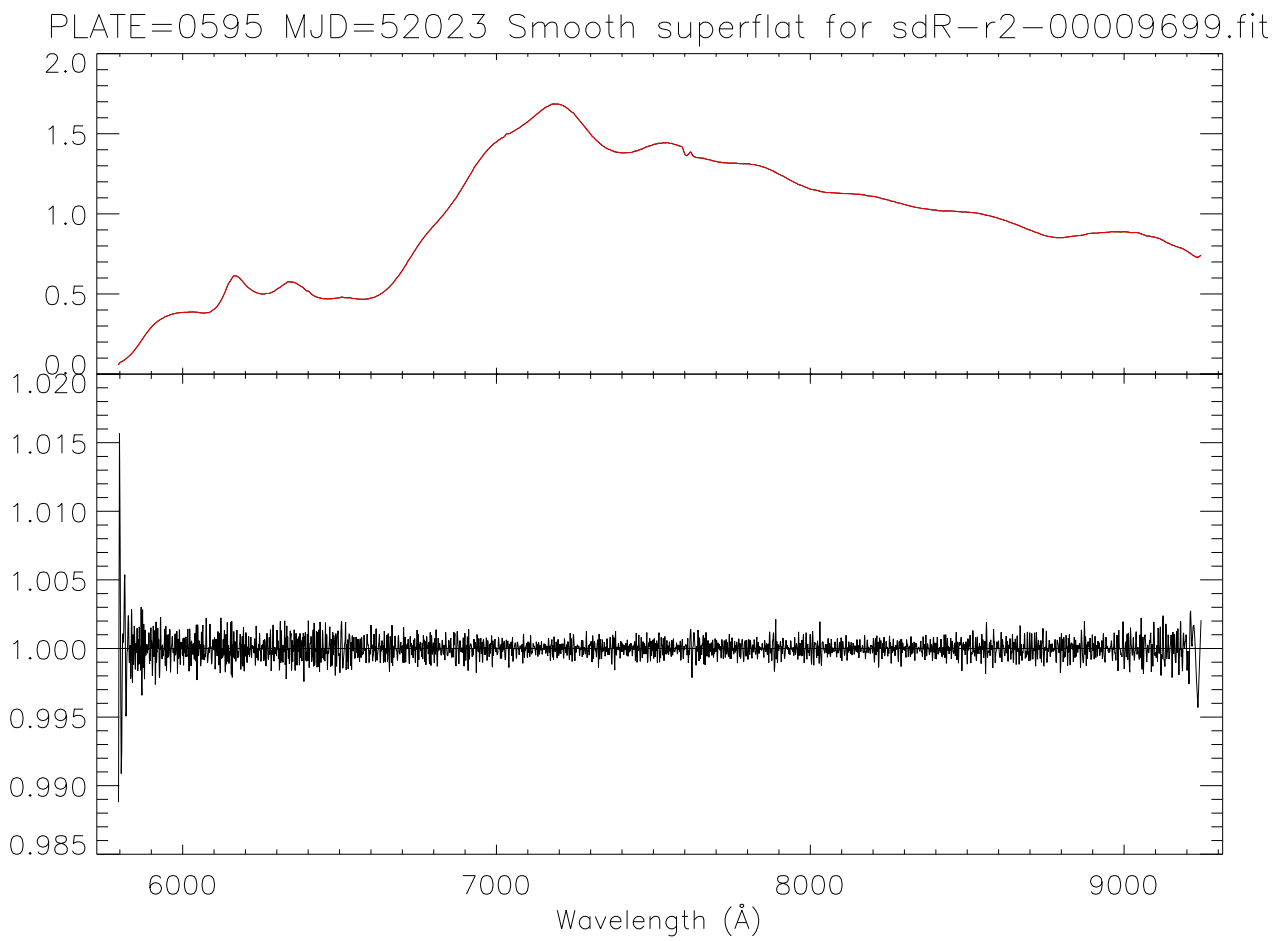

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

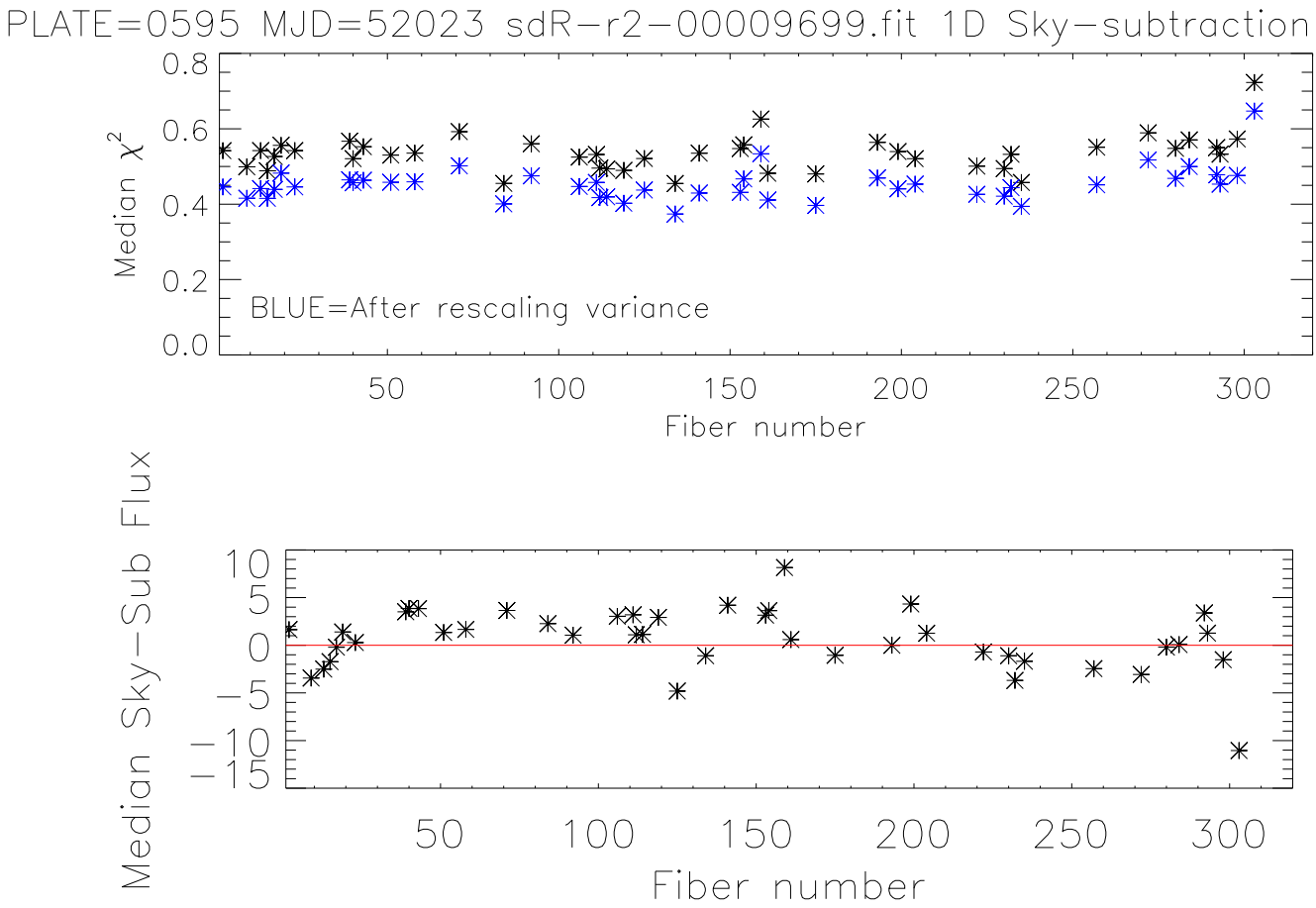

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

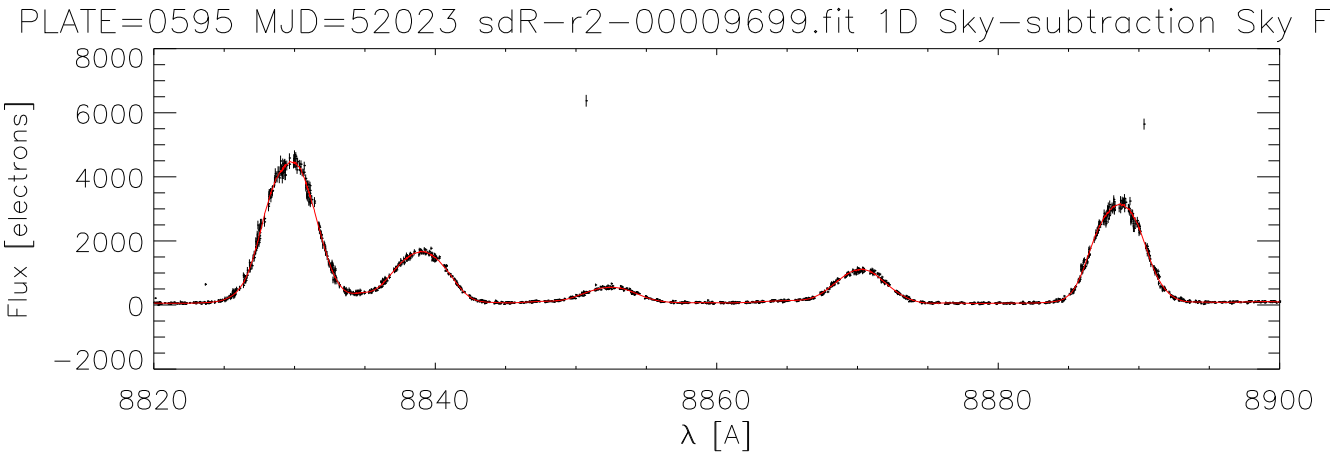

6300.3040
mfib1 48
mfib2 48
stdev 0.22
extrd 0.28
6363.7760
mfib1 48
mfib2 48
stdev 0.38
extrd 0.28
6553.6100
mfib1 47
mfib2 47
stdev 0.53
extrd 0.28
6923.2100
mfib1 47
mfib2 47
stdev 0.32
extrd 0.27
6949.0300
mfib1 47
mfib2 47
stdev 0.29
extrd 0.23
7571.7500
mfib1 47
mfib2 47
stdev 0.39
extrd 0.24
7794.1200
mfib1 47
mfib2 47
stdev 0.32
extrd 0.35
7821.5100
mfib1 46
mfib2 47
stdev 0.19
extrd 0.30
8399.1600
mfib1 48
mfib2 48
stdev 0.16
extrd 0.27
8430.1700
mfib1 47
mfib2 47
stdev 0.15
extrd 0.28
8885.8300
mfib1 47
mfib2 47
stdev 0.22
extrd 0.26
8919.6100
mfib1 47
mfib2 47
stdev 0.22
extrd 0.27
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

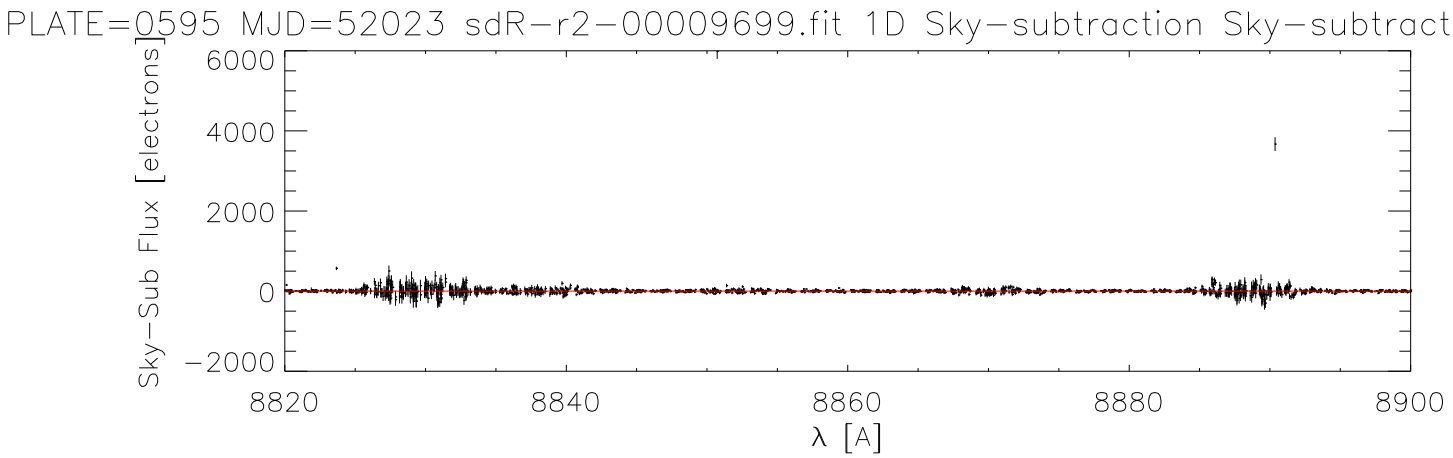

sky shift, pixels
−0.22
−0.24
−0.26
−0.28
−0.30
−0.32
−0.34
5000
6000
7000
8000
9000
10000

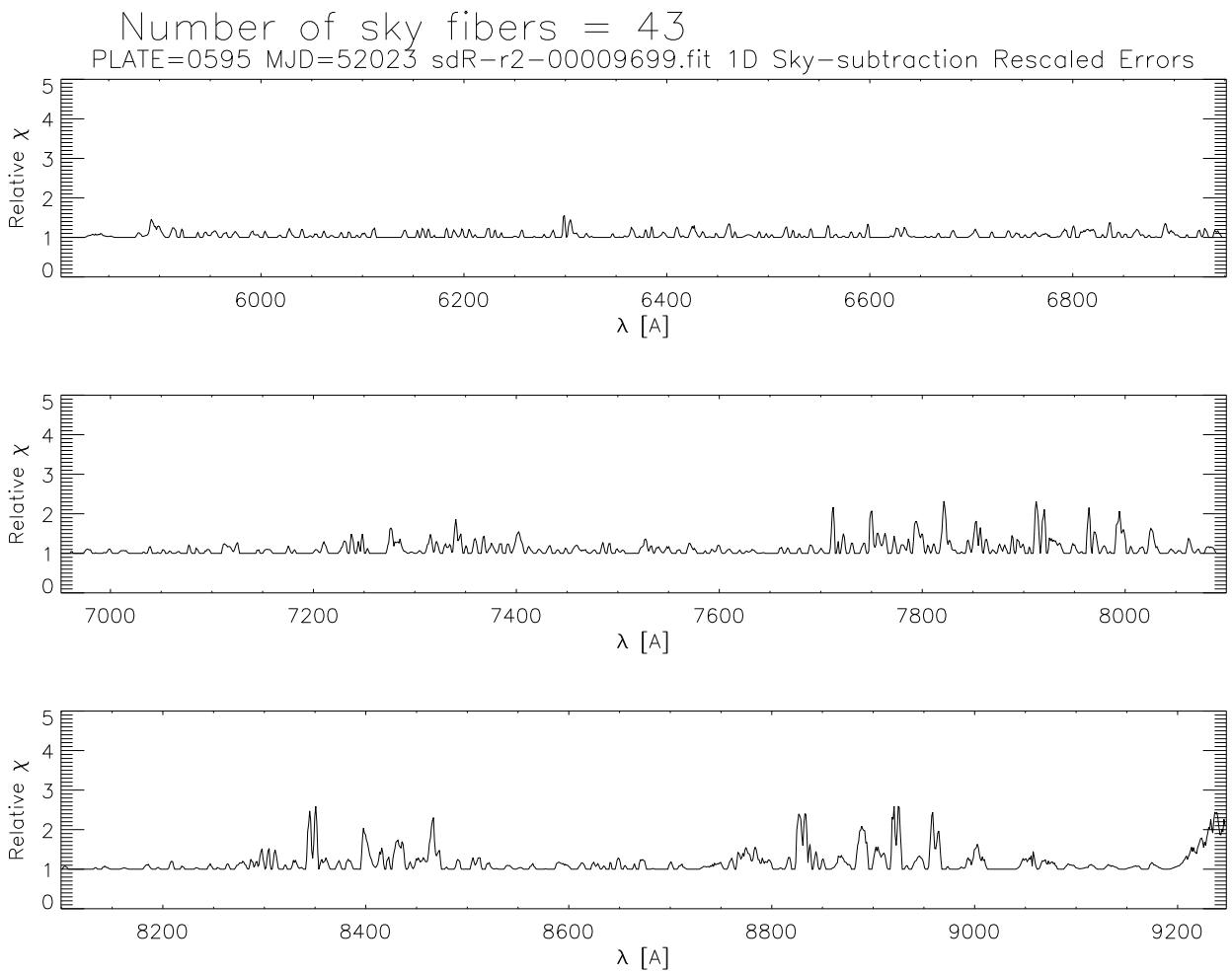
es= −0.0001

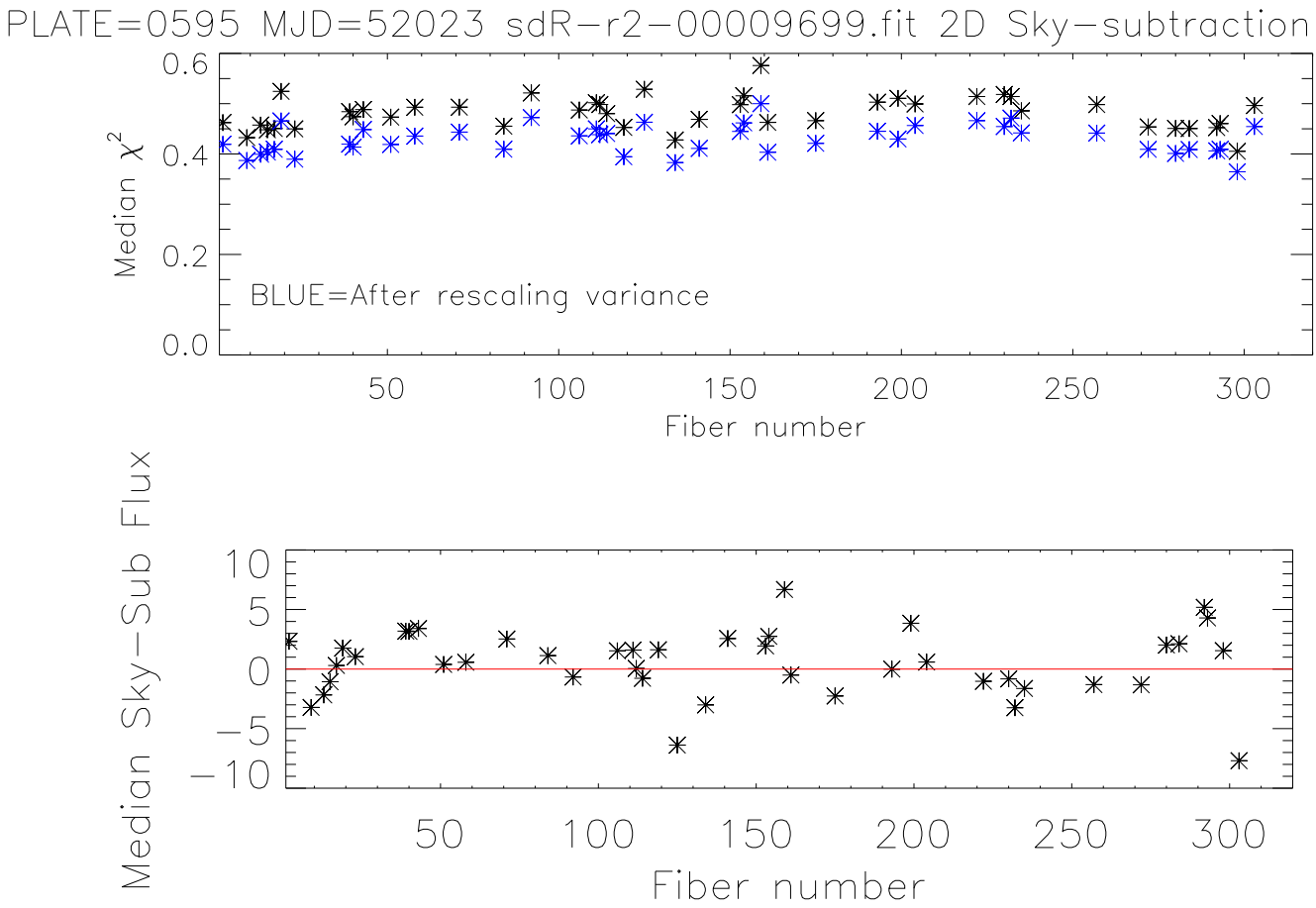

PLATE=0595 MJD=52023 Smooth superflat for sdR−r2−00009699.fit
2.0
1.5
1.0
0.5
0.0
1.020
1.015
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

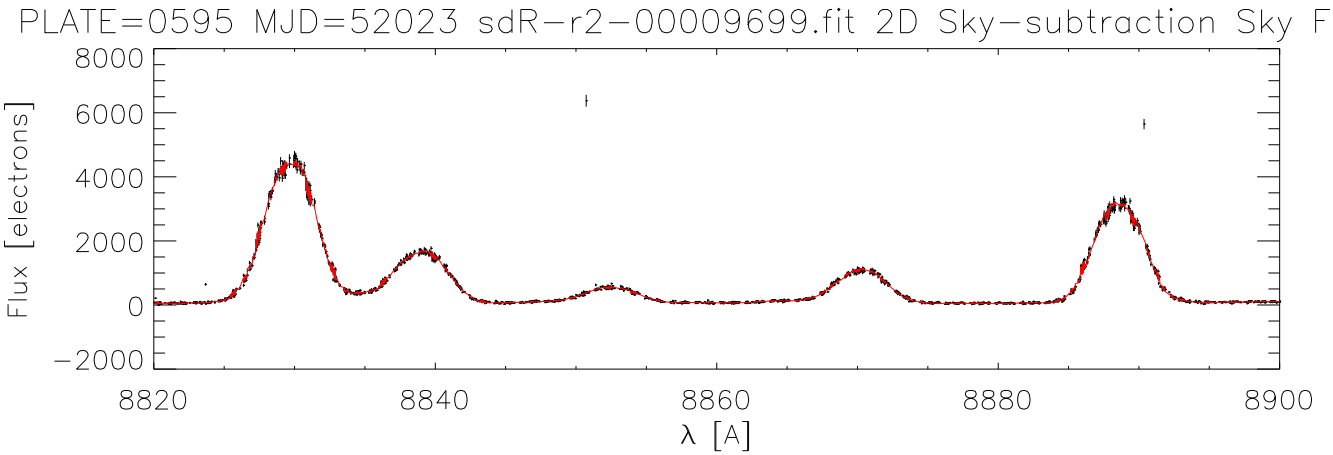

PLATE=0595 MJD=52023 sdR-r2-00009699.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

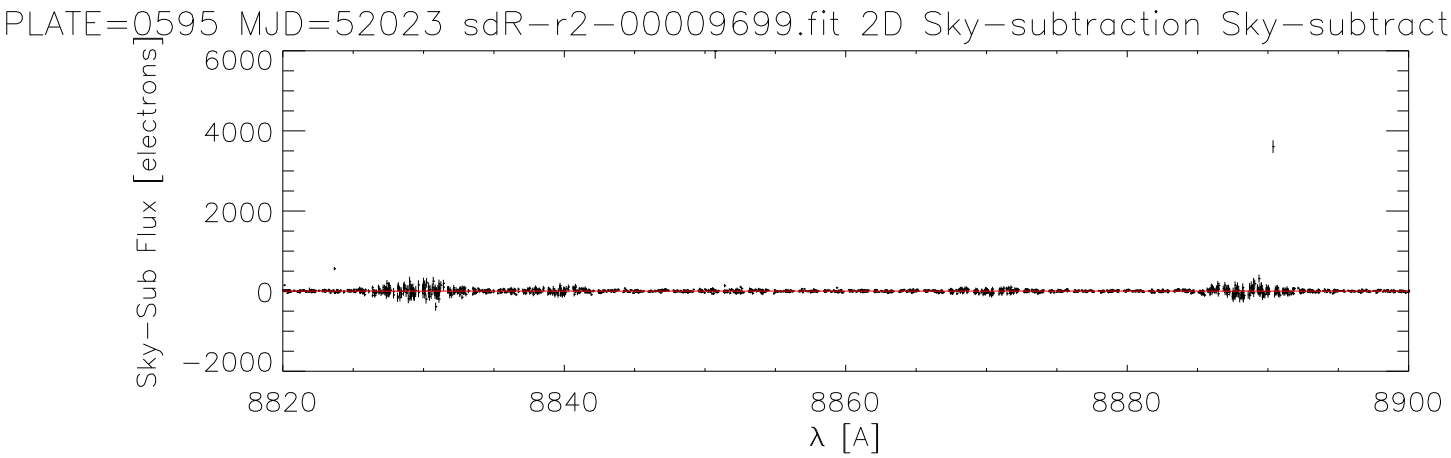

PLATE=0595 MJD=52023 sdR-r2-00009699.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

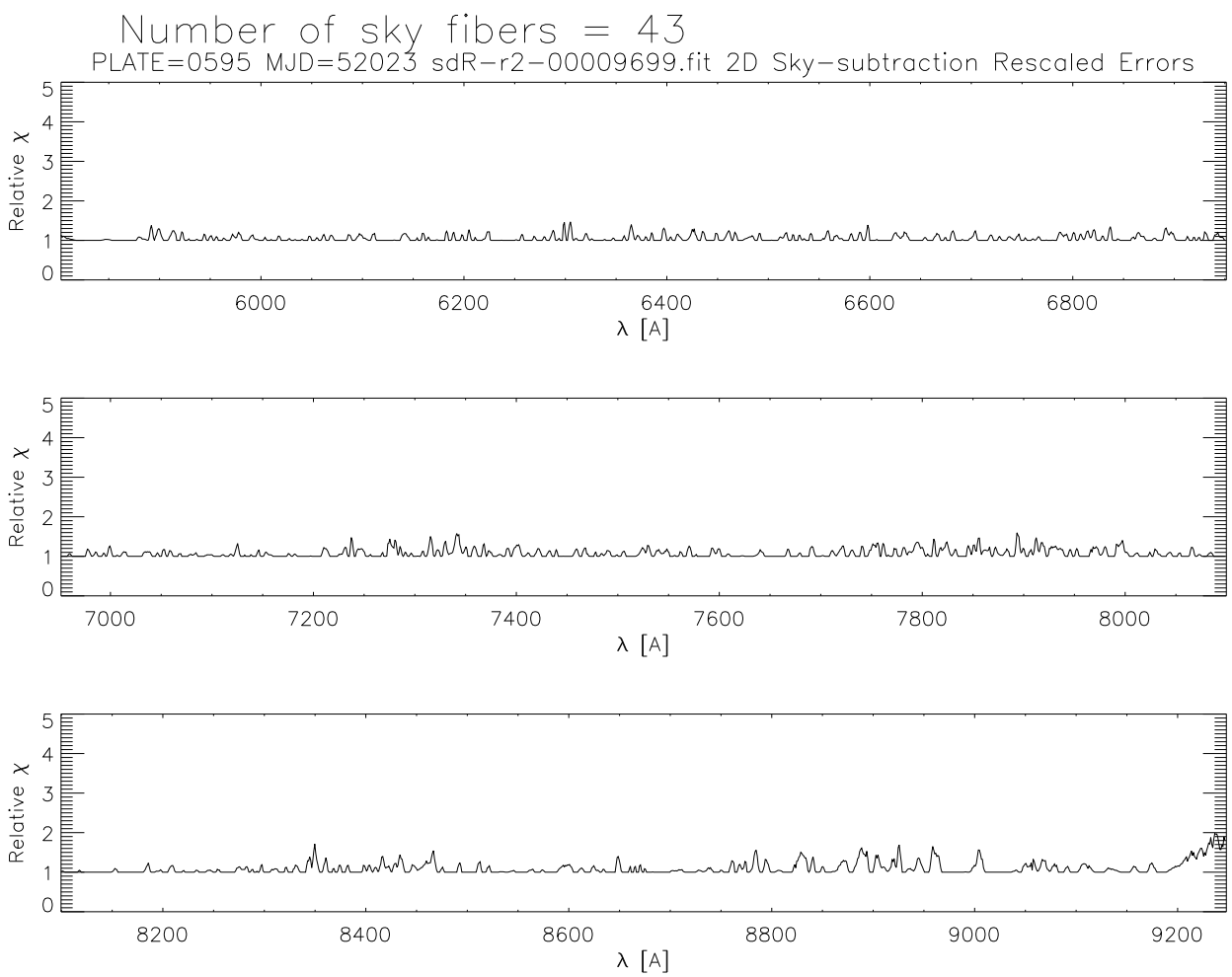

PLATE=0595 MJD=52023 sdR-r2-00009699.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

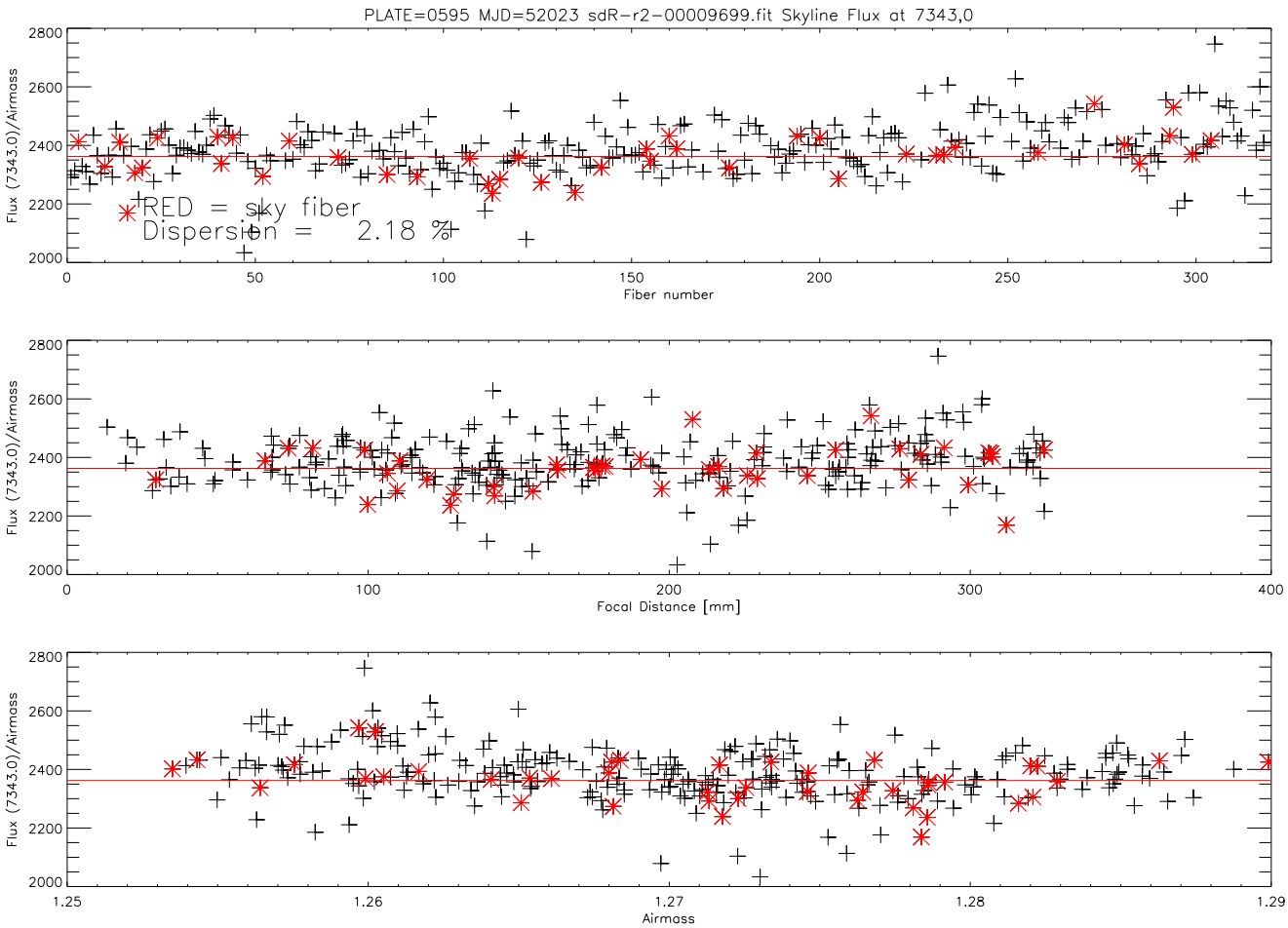

Number of sky fibers = 43
PLATE=0595 MJD=52023 sdR-r2-00009699.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

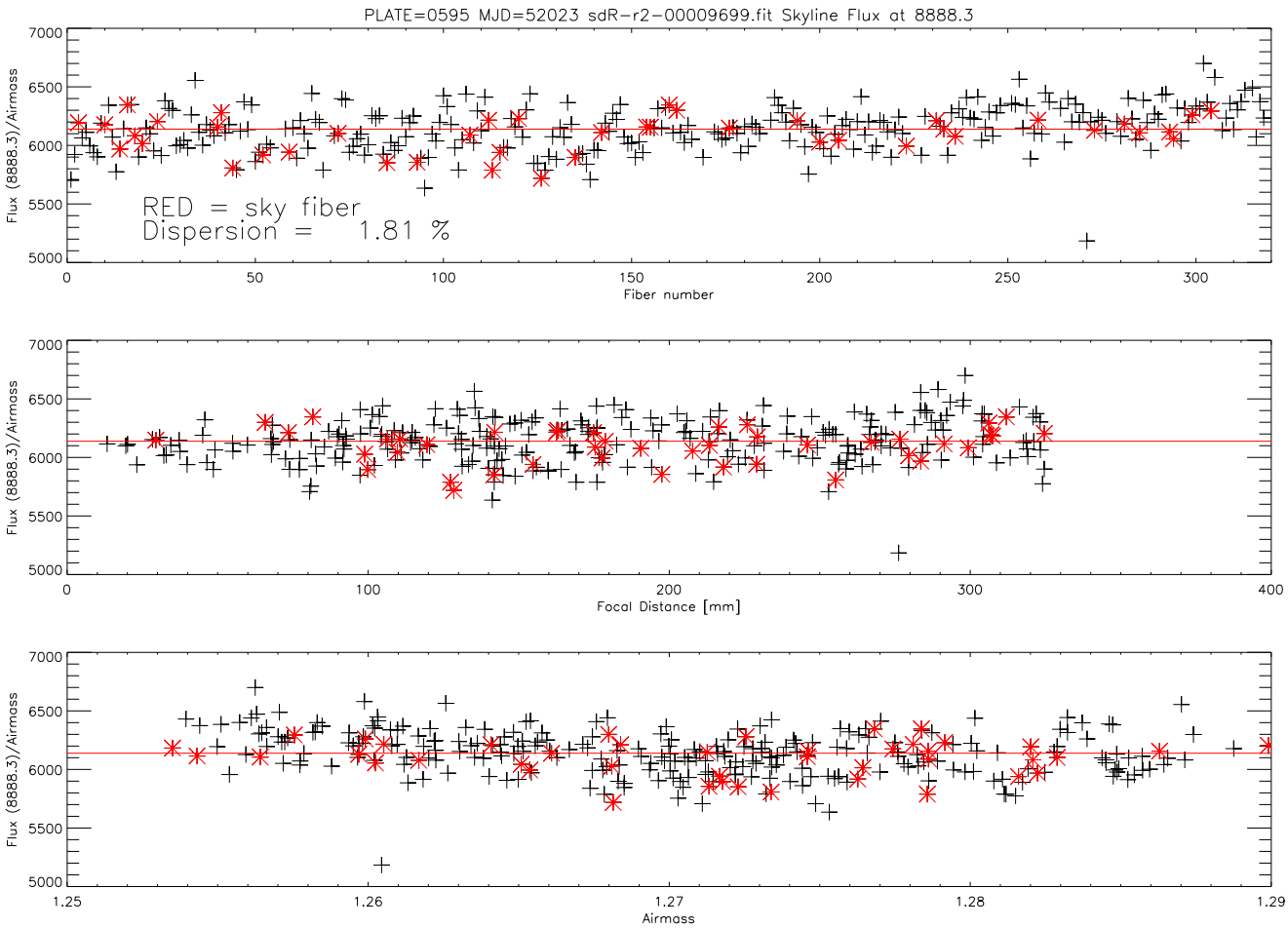

PLATE=0595 MJD=52023 sdR-r2-00009699.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

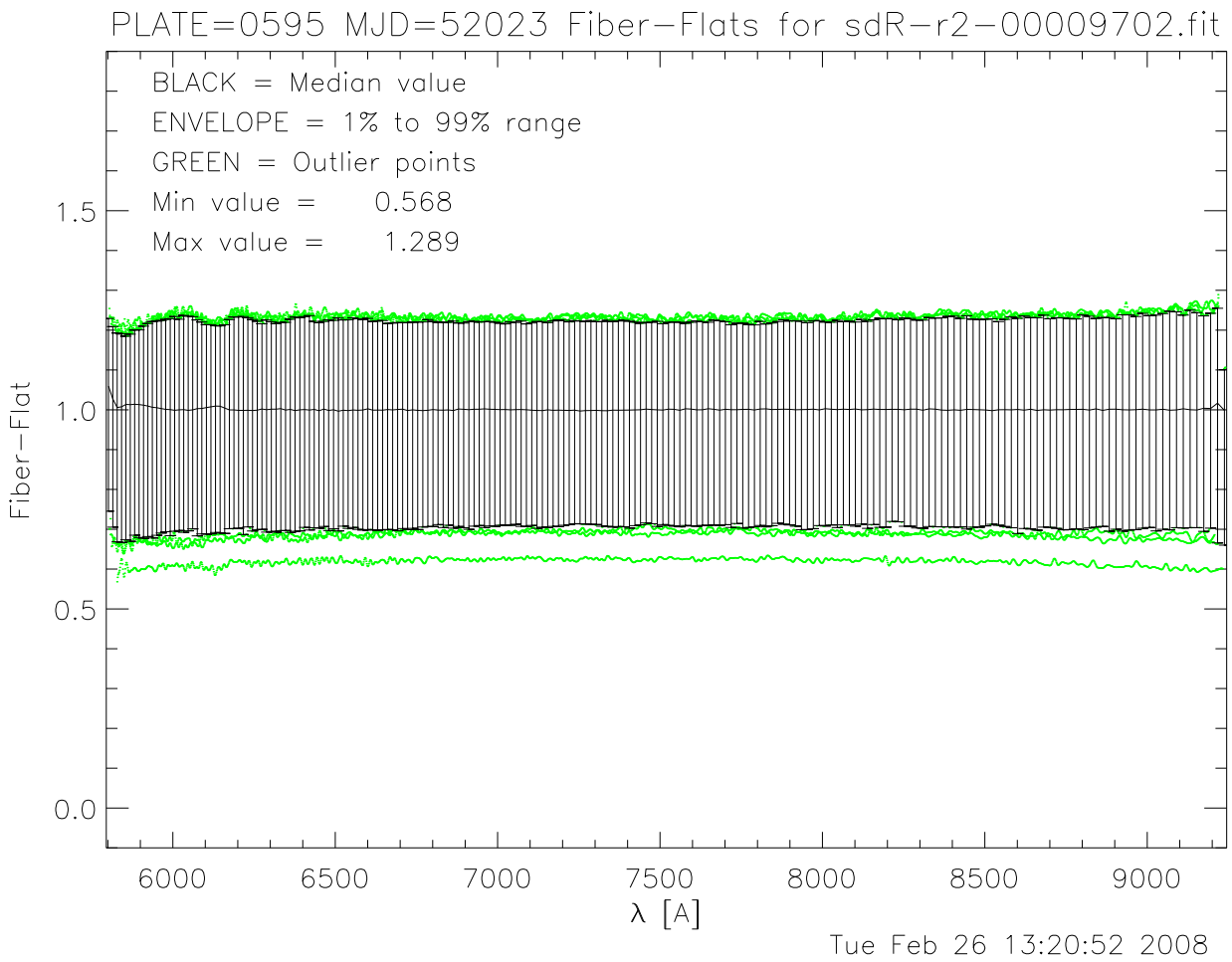

PLATE=0595 MJD=52023 sdR-r2-00009699.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

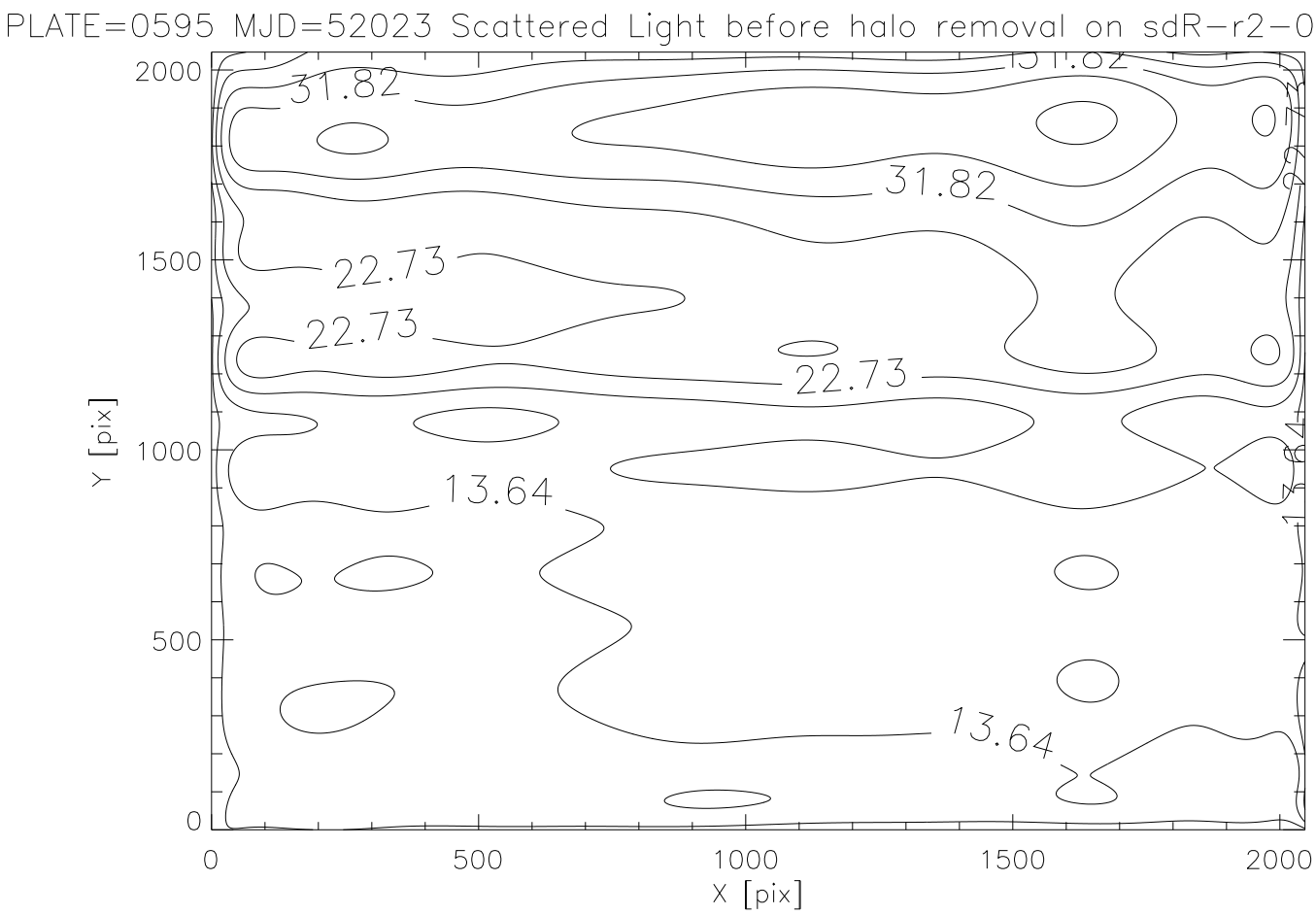

PLATE=0595 MJD=52023 sdR-r2-00009699.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

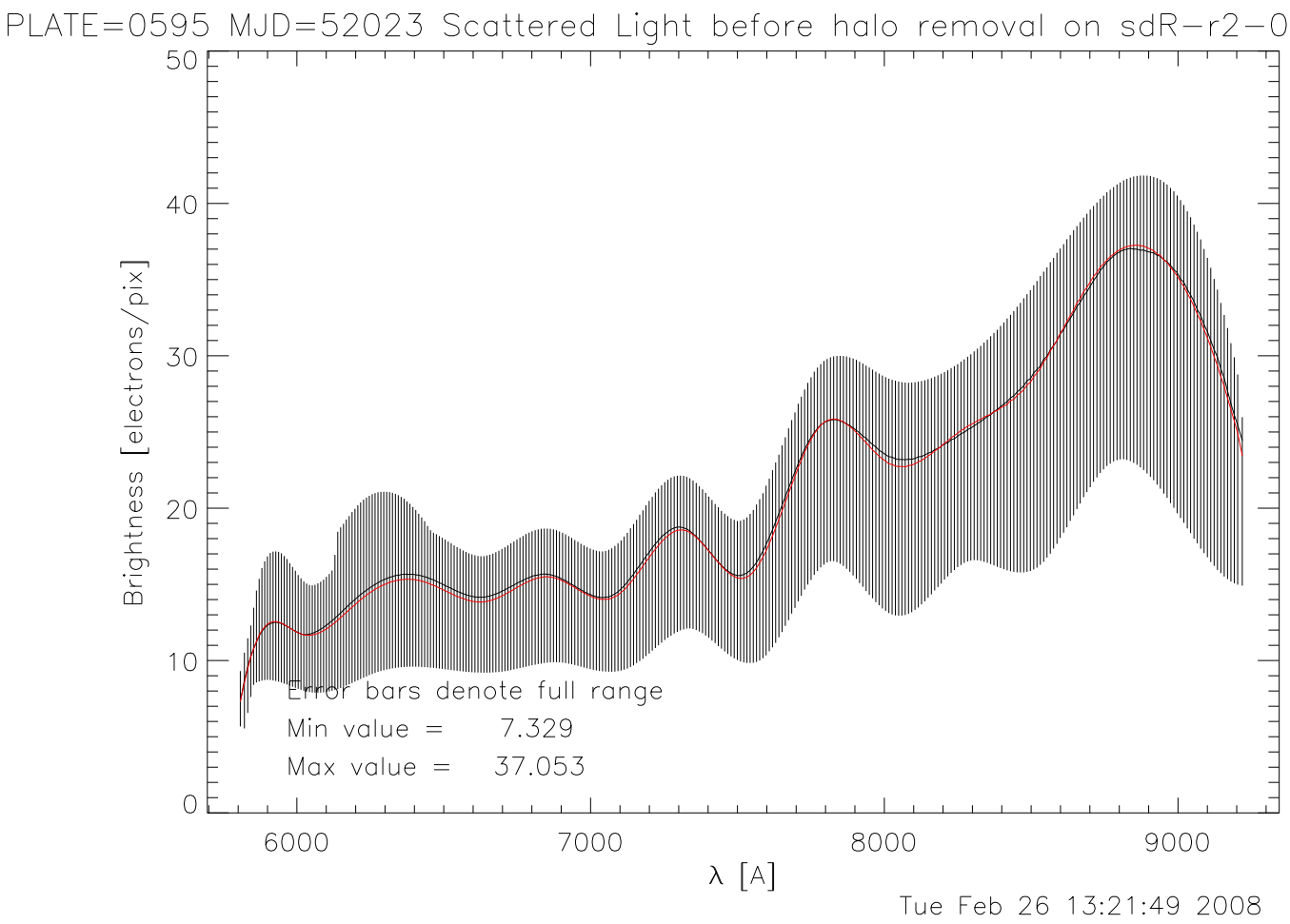

Number of sky fibers = 43
PLATE=0595 MJD=52023 sdR-r2-00009699.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

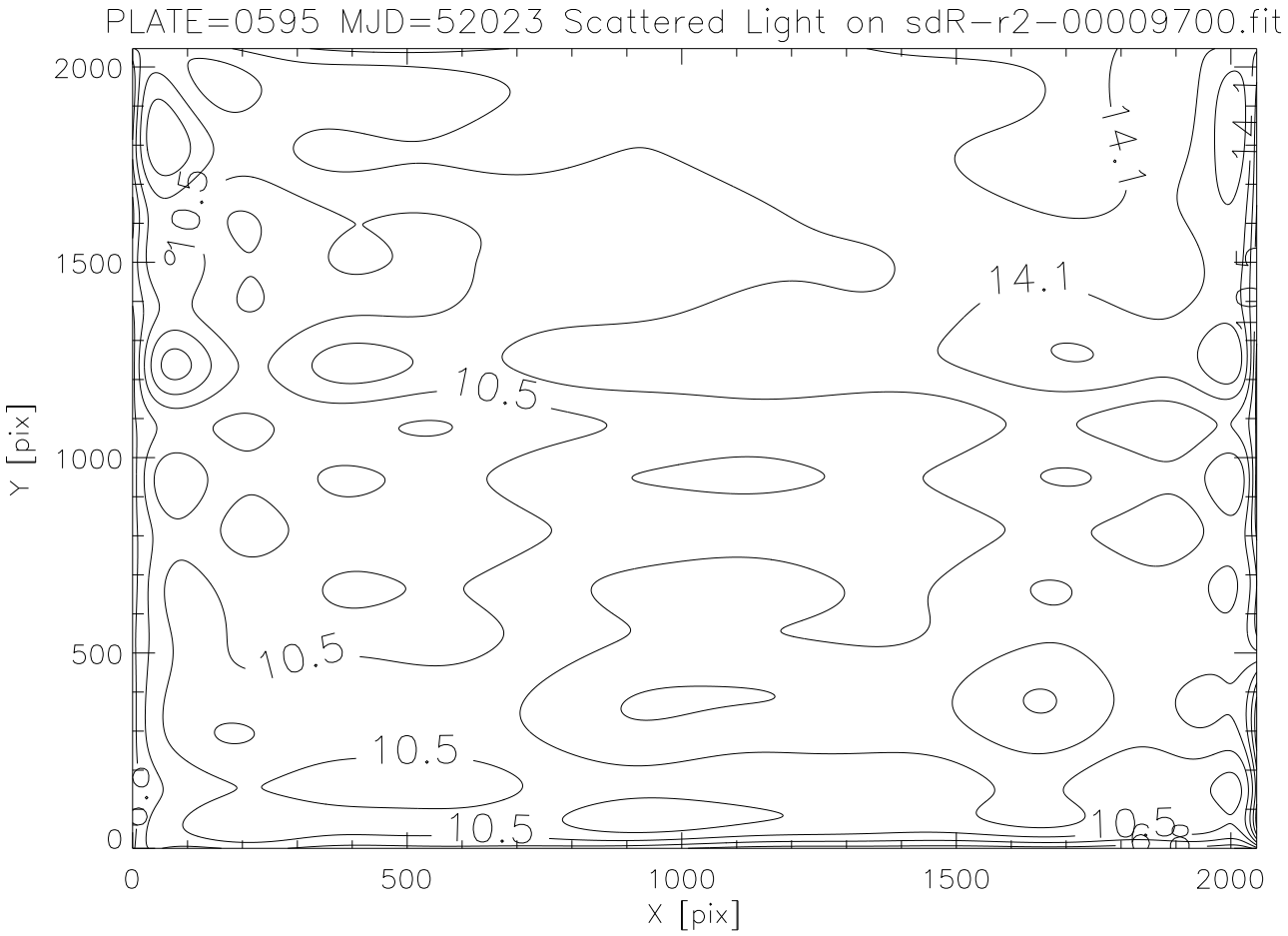

PLATE=0595 MJD=52023 sdR-r2-00009699.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.18 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

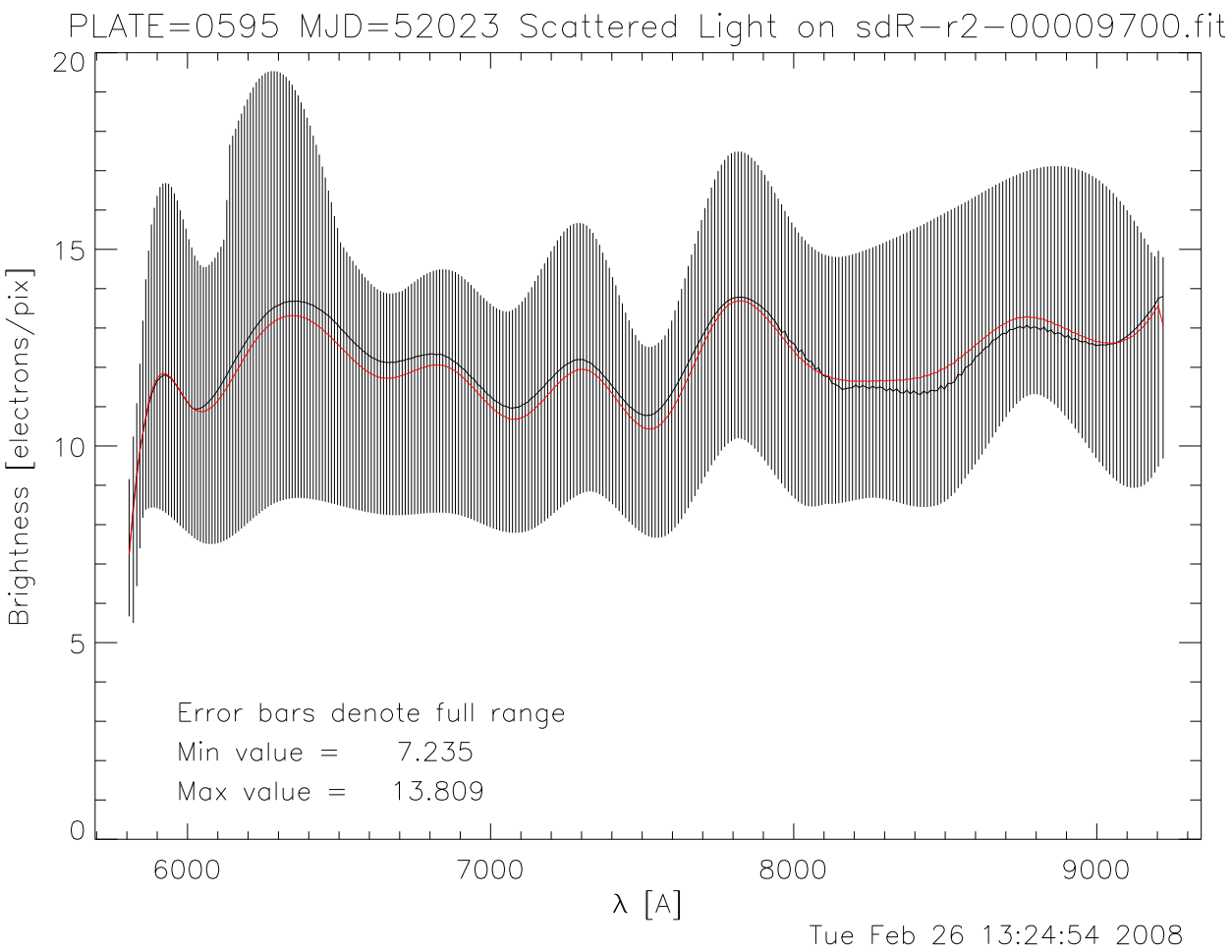

PLATE=0595 MJD=52023 sdR-r2-00009699.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.81 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

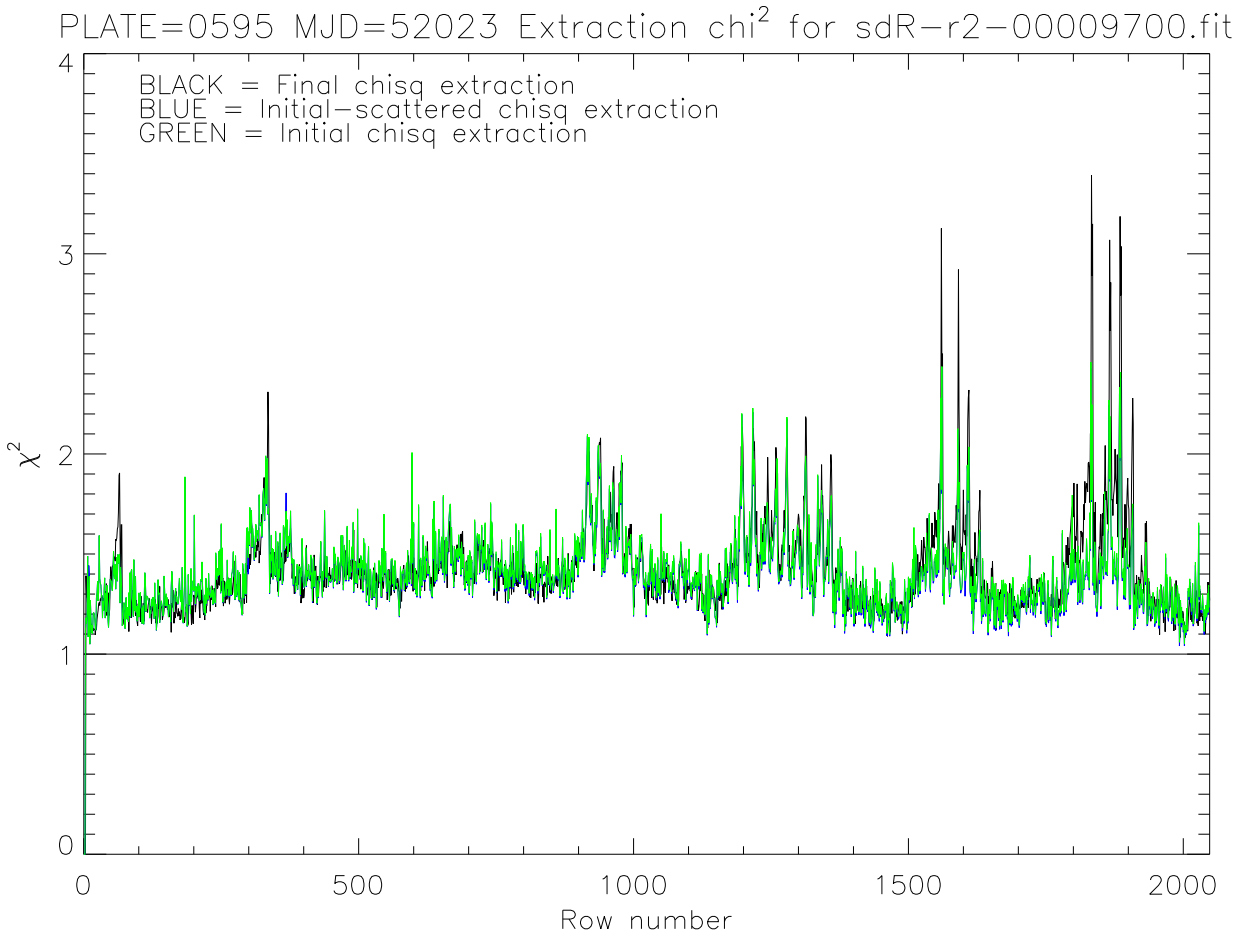

PLATE=0595 MJD=52023 Fiber−Flats for sdR−r2−00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.568
Max value = 1.289
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 13:20:52 2008

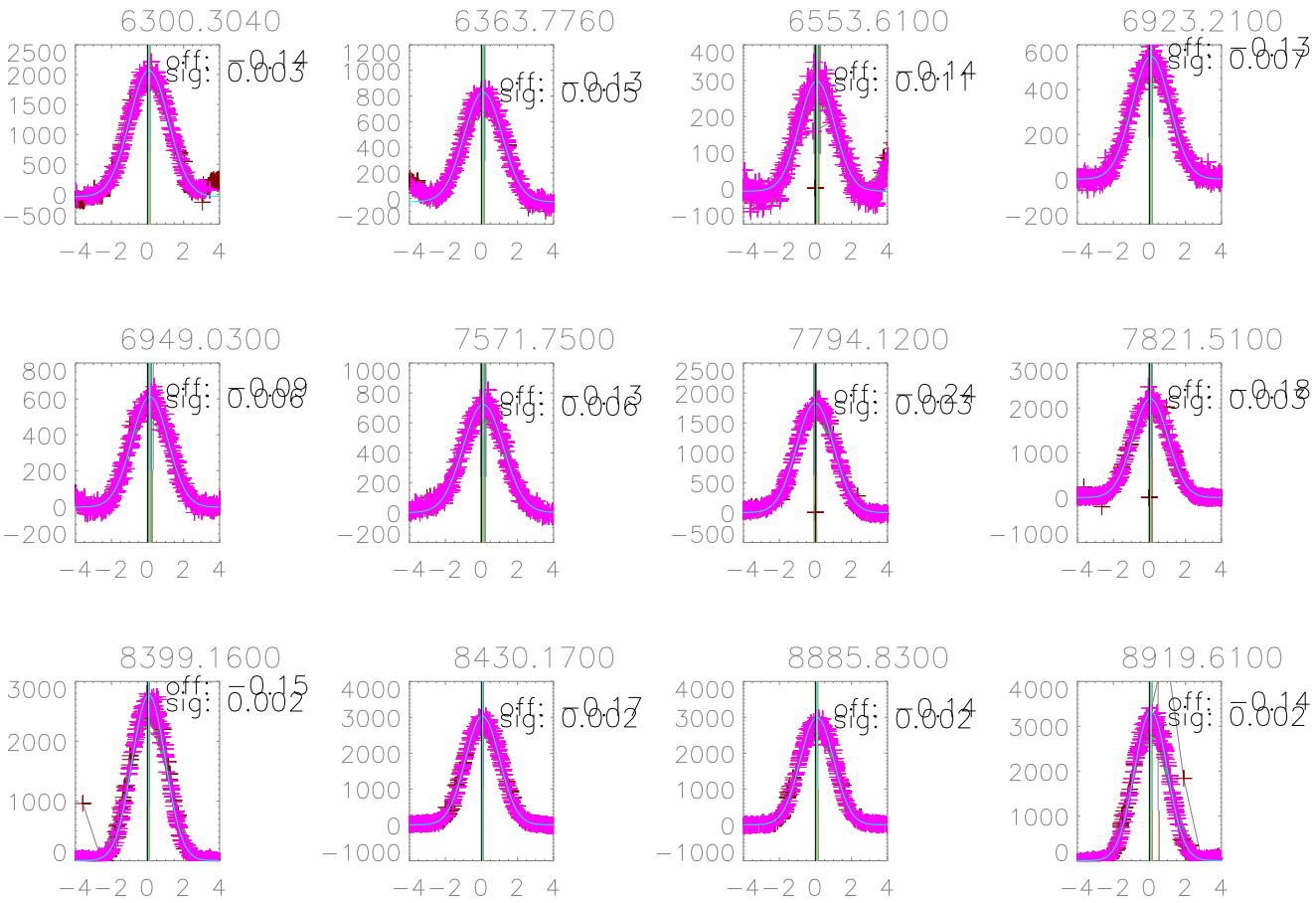

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-r2-00009700.fi
31.82
31.82
22.73
22.73
22.73
13.64
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

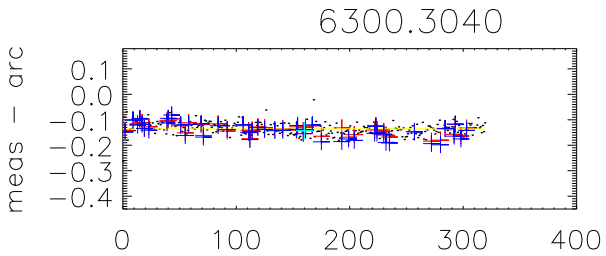

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-r2-00009700.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.329
Max value = 37.053
Tue Feb 26 13:21:49 2008

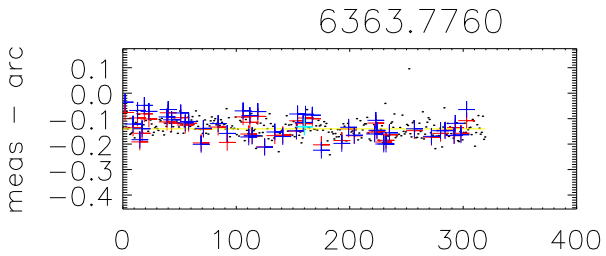

PLATE=0595 MJD=52023 Scattered Light on sdR-r2-00009700.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.5
14.1

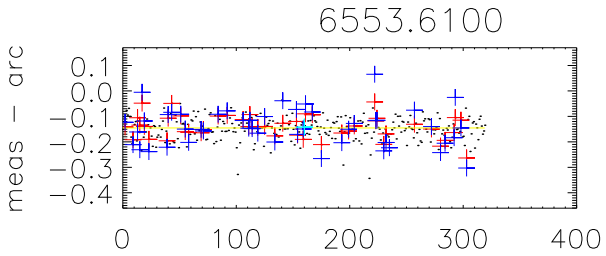

PLATE=0595 MJD=52023 Scattered Light on sdR-r2-00009700.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 7.235
Max value = 13.809
Tue Feb 26 13:24:54 2008

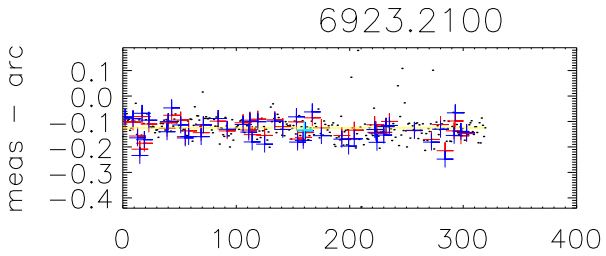

PLATE=0595 MJD=52023 Extraction chi^2 for sdR−r2−00009700.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

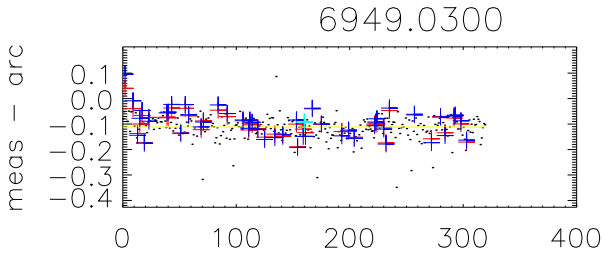

6300.3040
off: −0.14
sig: 0.003
6363.7760
off: −0.13
sig: 0.005
6553.6100
off: −0.14
sig: 0.011
6923.2100
off: −0.13
sig: 0.007
6949.0300
off: −0.09
sig: 0.006
7571.7500
off: −0.13
sig: 0.006
7794.1200
off: −0.24
sig: 0.003
7821.5100
off: −0.18
sig: 0.003
8399.1600
off: −0.15
sig: 0.002
8430.1700
off: −0.17
sig: 0.002
8885.8300
off: −0.14
sig: 0.002
8919.6100
off: −0.14
sig: 0.002

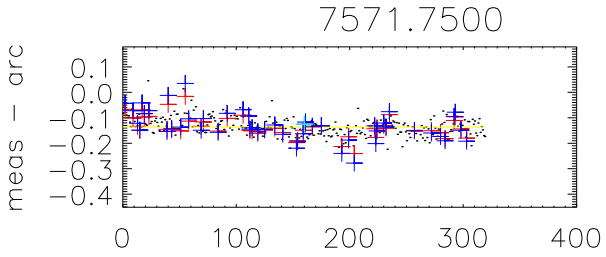

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

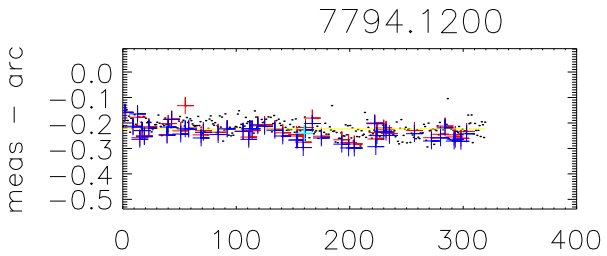

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

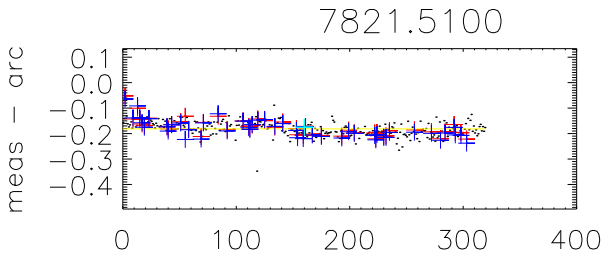

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

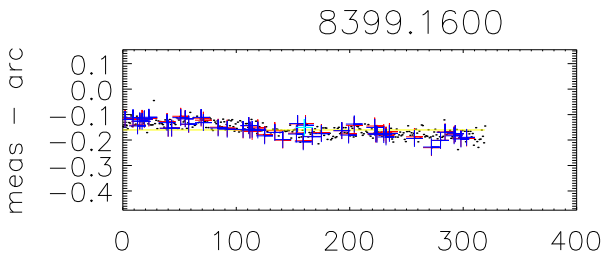

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

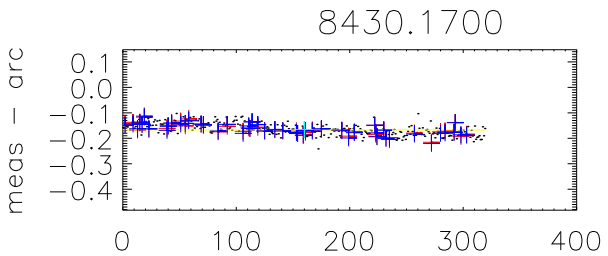

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

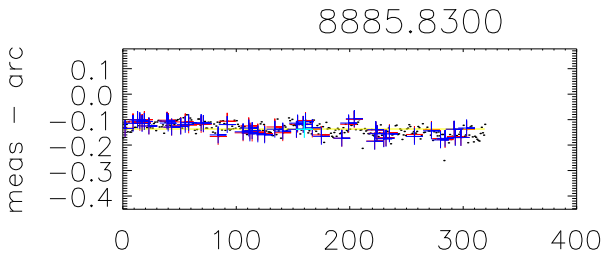

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

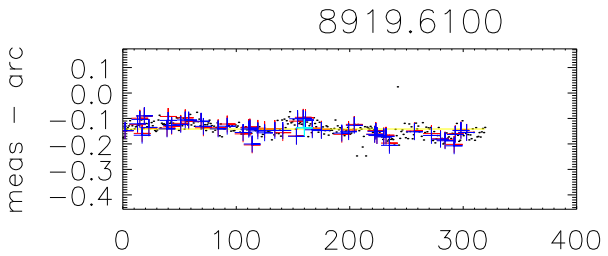

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

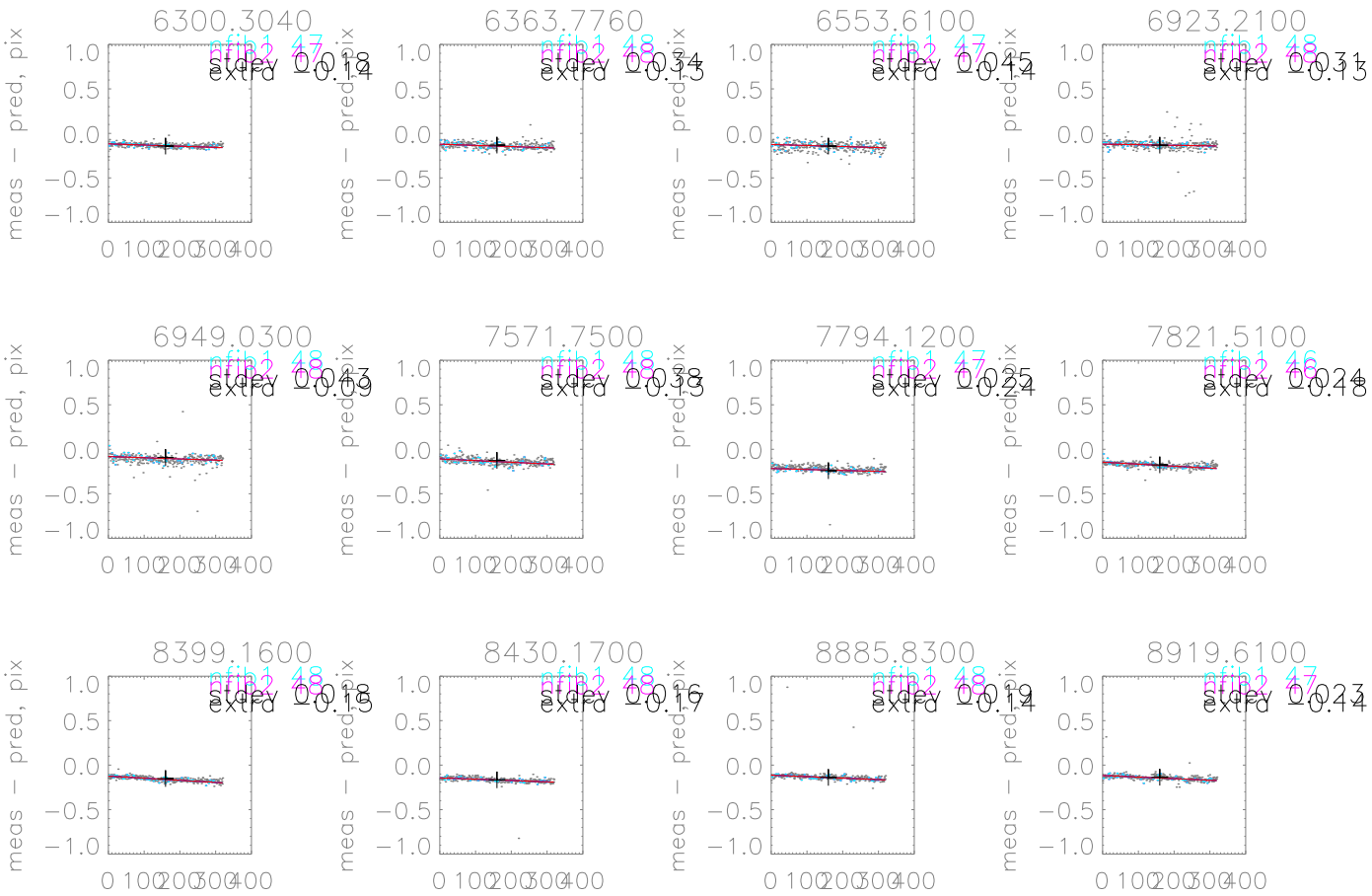

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

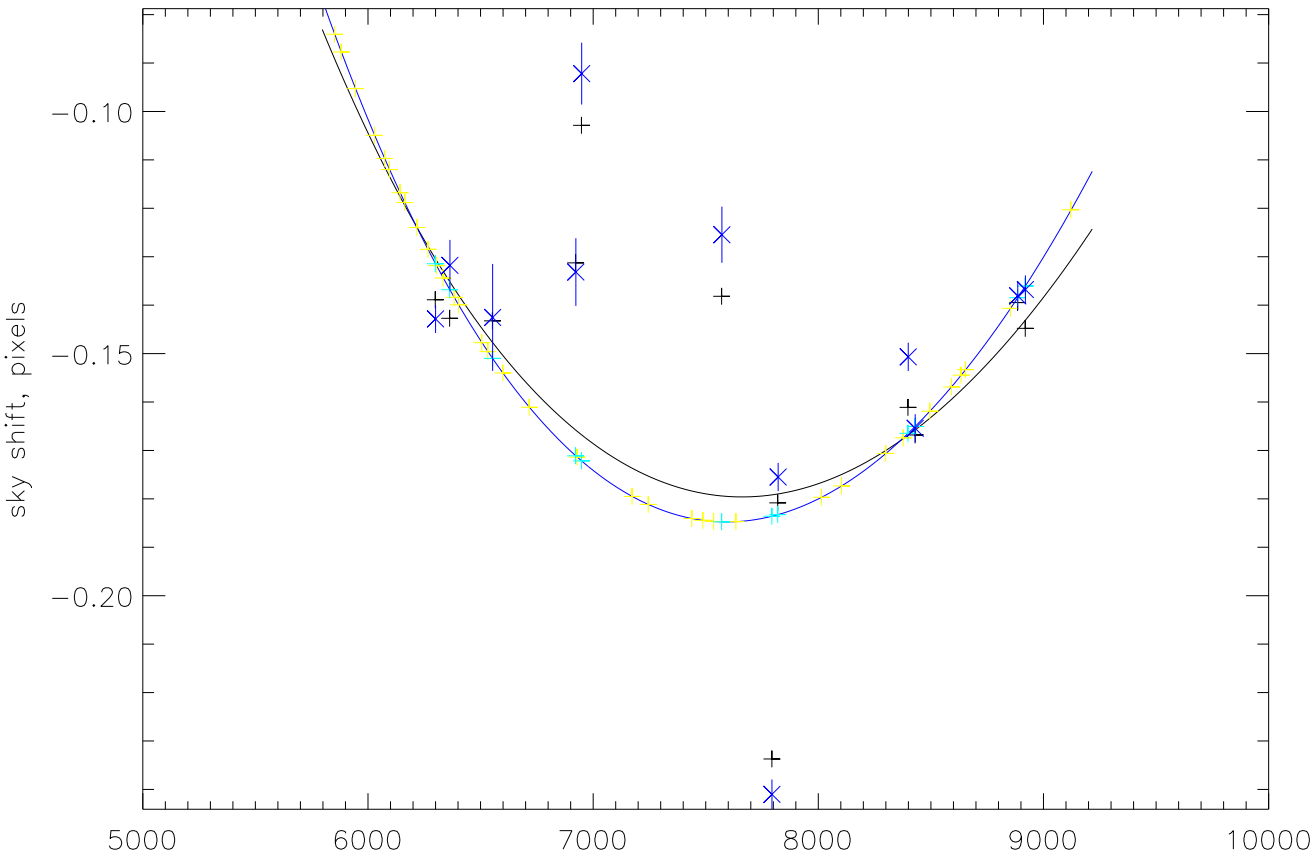

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

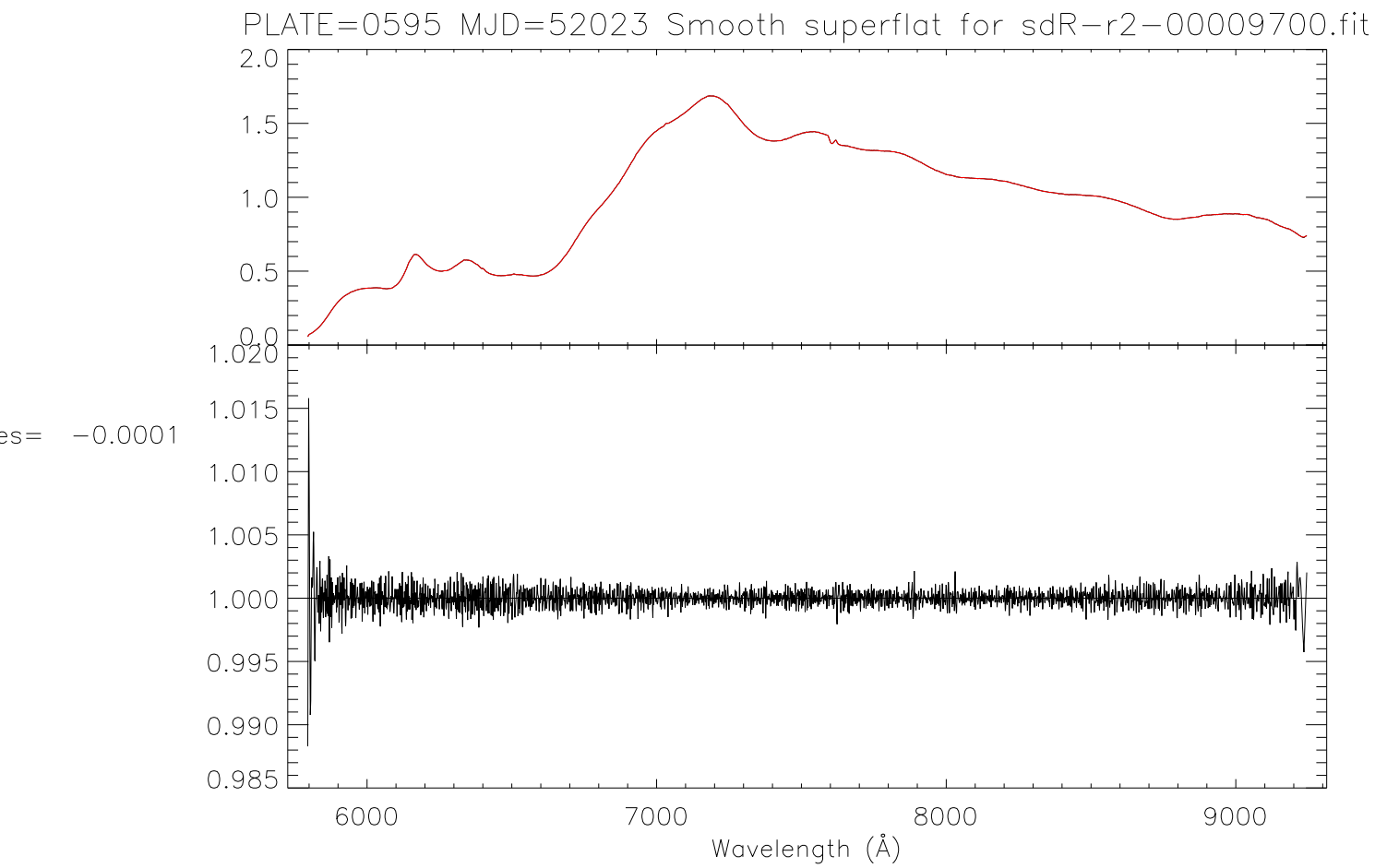

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

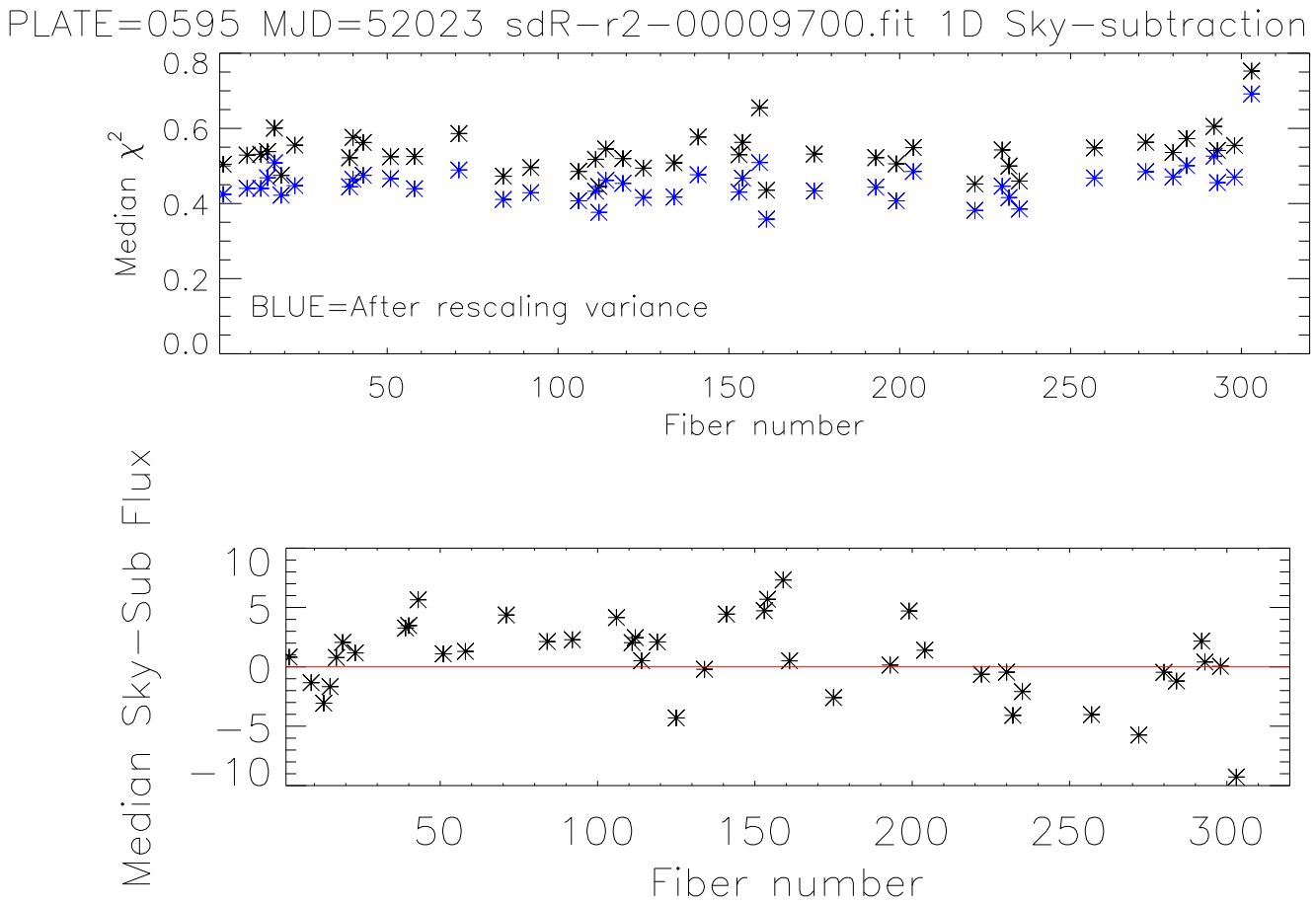

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

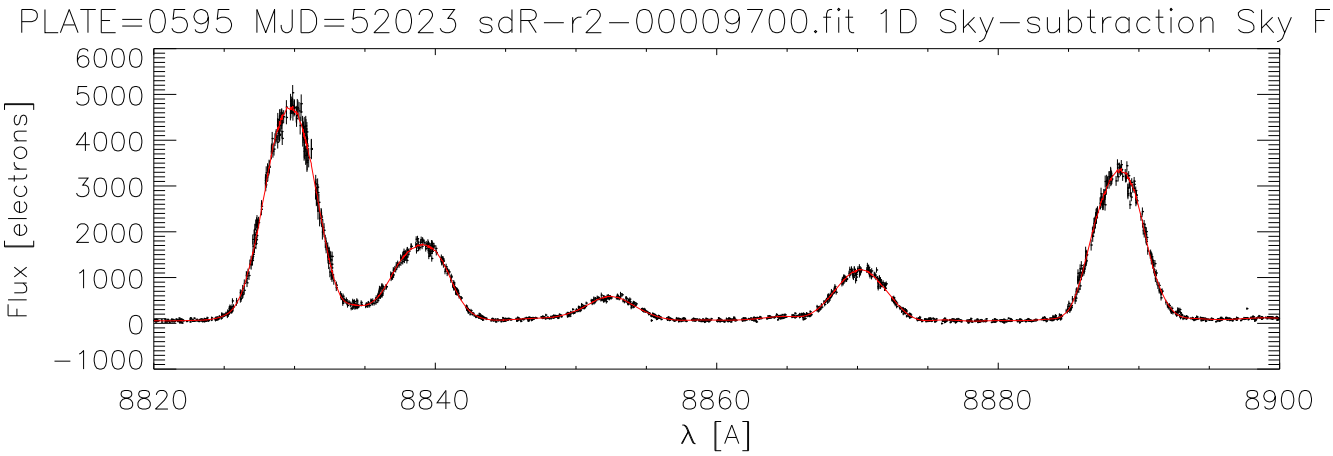

6300.3040
mfib1 47
mfib2 47
stdev 0.018
extrd 0.014
6363.7760
mfib1 48
mfib2 48
stdev 0.034
extrd 0.015
6553.6100
mfib1 47
mfib2 47
stdev 0.045
extrd 0.014
6923.2100
mfib1 48
mfib2 48
stdev 0.031
extrd 0.013
6949.0300
mfib1 48
mfib2 48
stdev 0.043
extrd 0.009
7571.7500
mfib1 48
mfib2 48
stdev 0.038
extrd 0.013
7794.1200
mfib1 47
mfib2 47
stdev 0.025
extrd 0.024
7821.5100
mfib1 46
mfib2 46
stdev 0.024
extrd 0.048
8399.1600
mfib1 48
mfib2 48
stdev 0.018
extrd 0.015
8430.1700
mfib1 48
mfib2 48
stdev 0.016
extrd 0.017
8885.8300
mfib1 48
mfib2 48
stdev 0.019
extrd 0.014
8919.6100
mfib1 47
mfib2 47
stdev 0.023
extrd 0.044
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

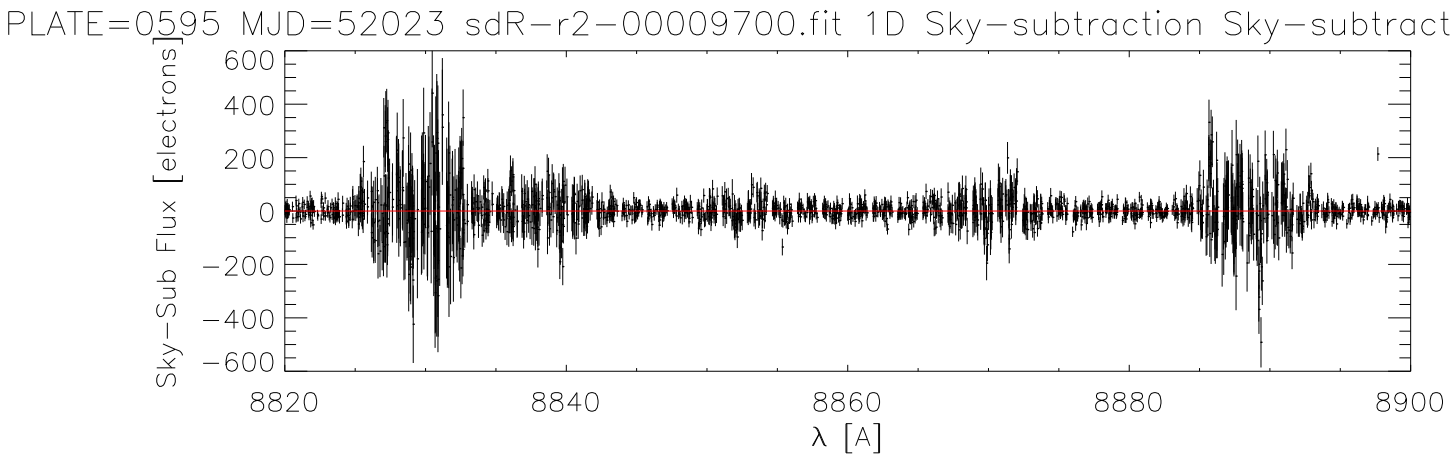

−0.10
−0.15
−0.20
sky shift, pixels
5000
6000
7000
8000
9000
10000

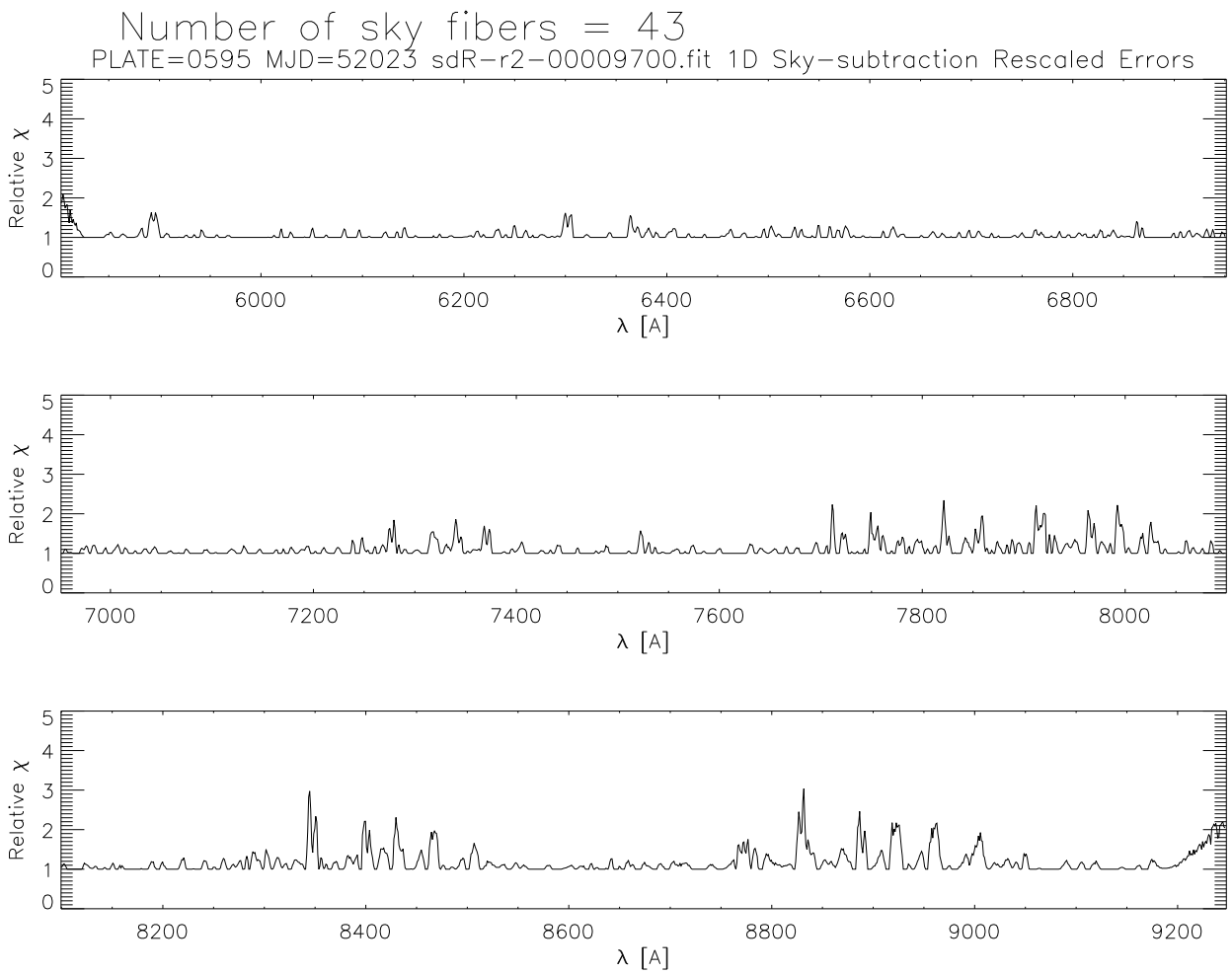

PLATE=0595 MJD=52023 Smooth superflat for sdR-r2-00009700.fit
2.0
1.5
1.0
0.5
0.0
1.020
1.015
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

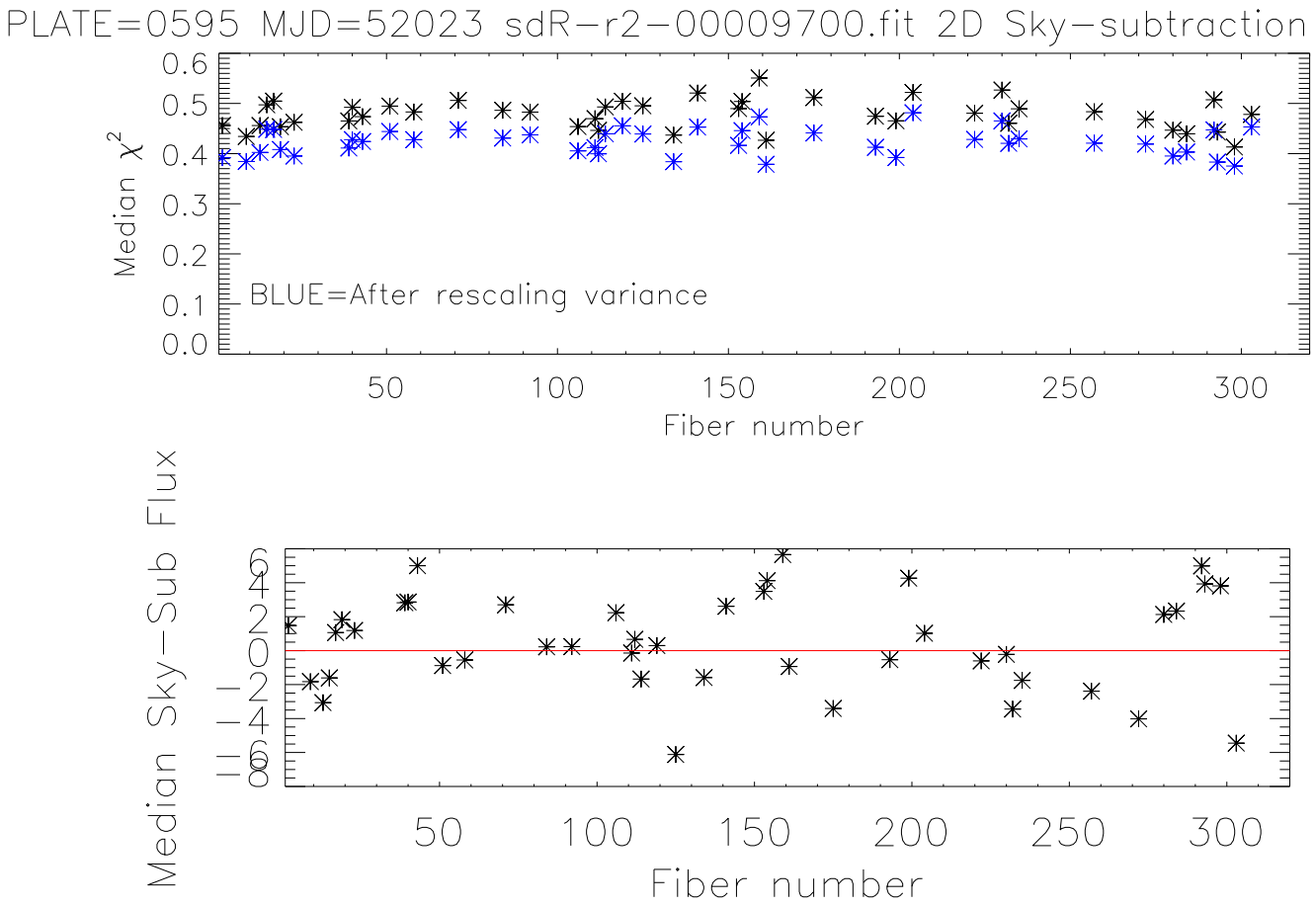
es= −0.0001

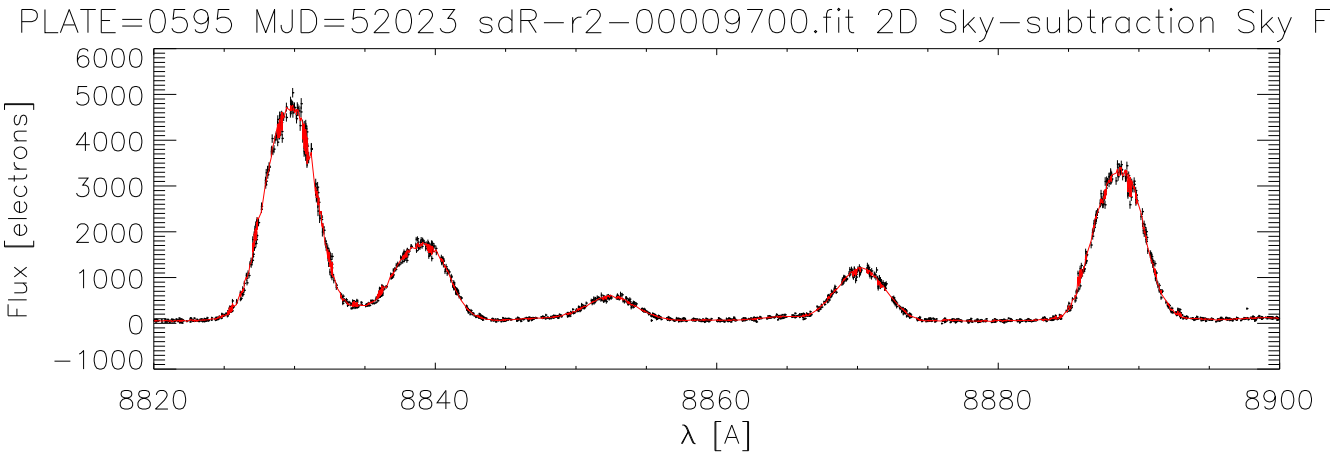

PLATE=0595 MJD=52023 sdR-r2-00009700.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

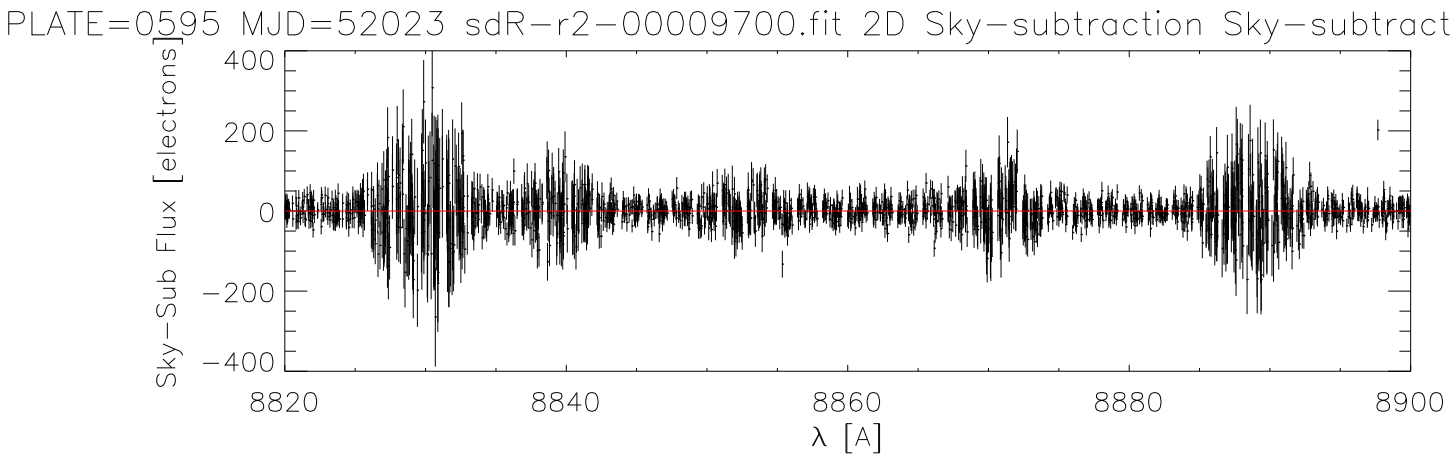

PLATE=0595 MJD=52023 sdR-r2-00009700.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

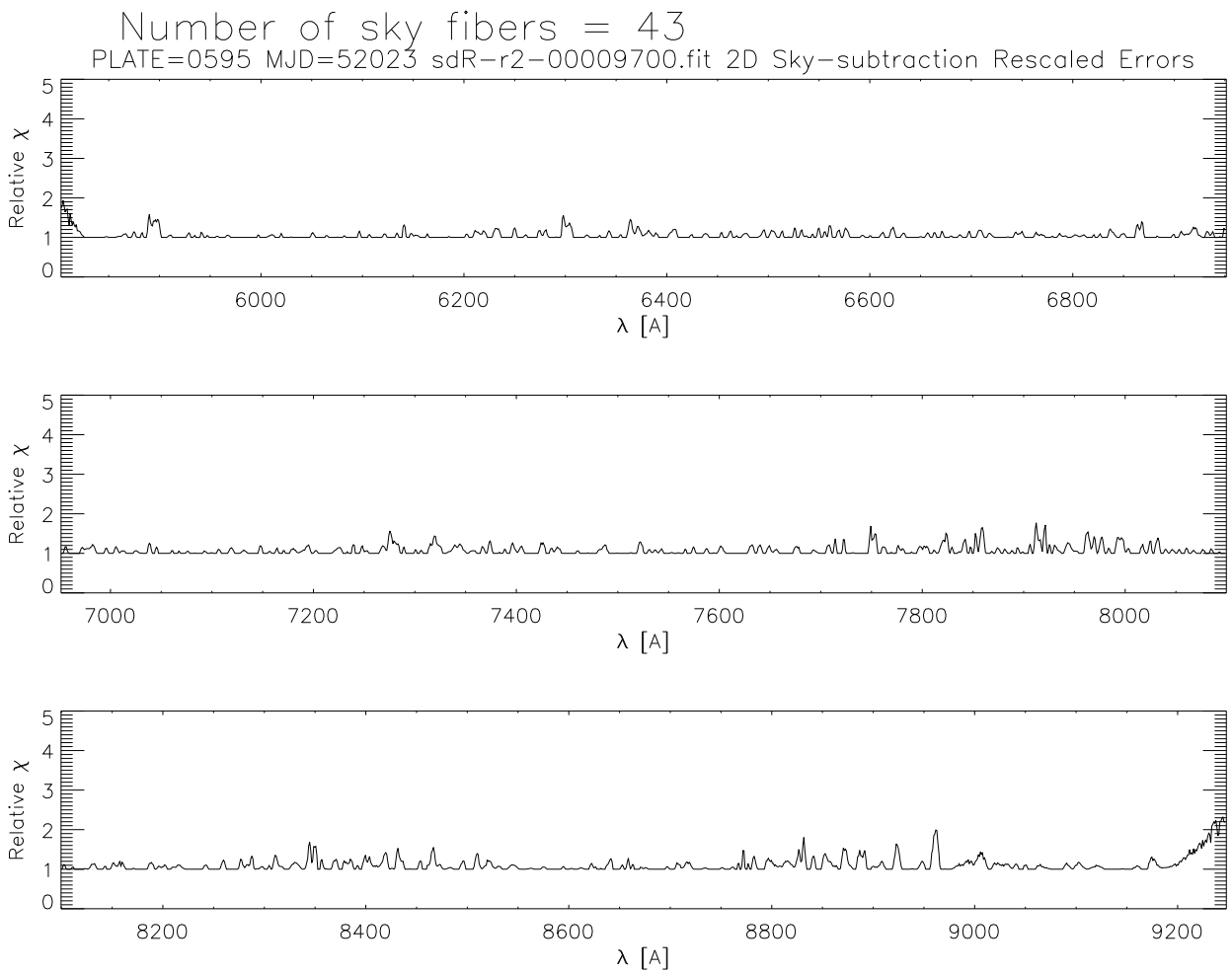

PLATE=0595 MJD=52023 sdR-r2-00009700.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
−600
8820
8840
8860
8880
8900
λ [A]

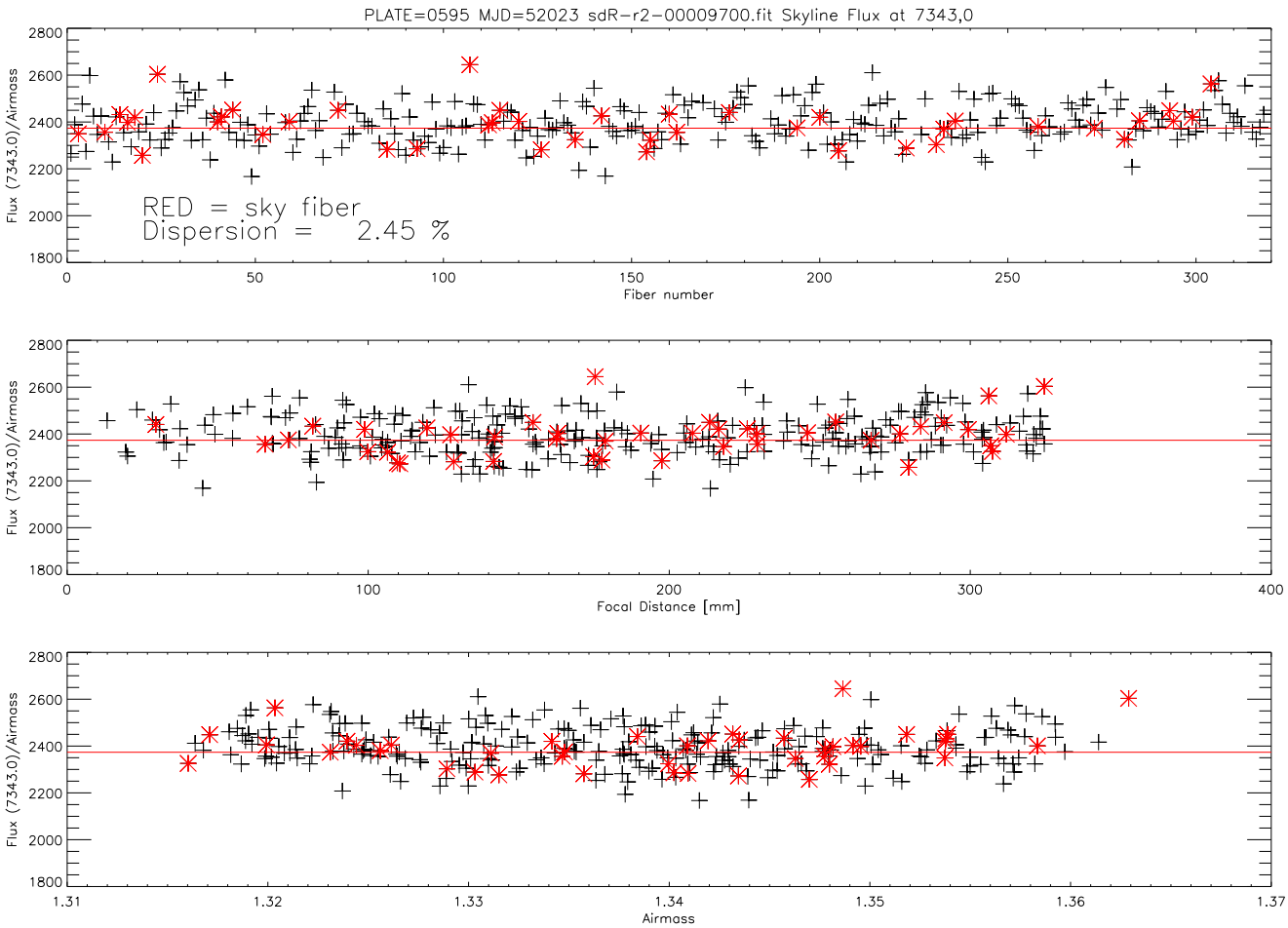

Number of sky fibers = 43
PLATE=0595 MJD=52023 sdR-r2-00009700.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

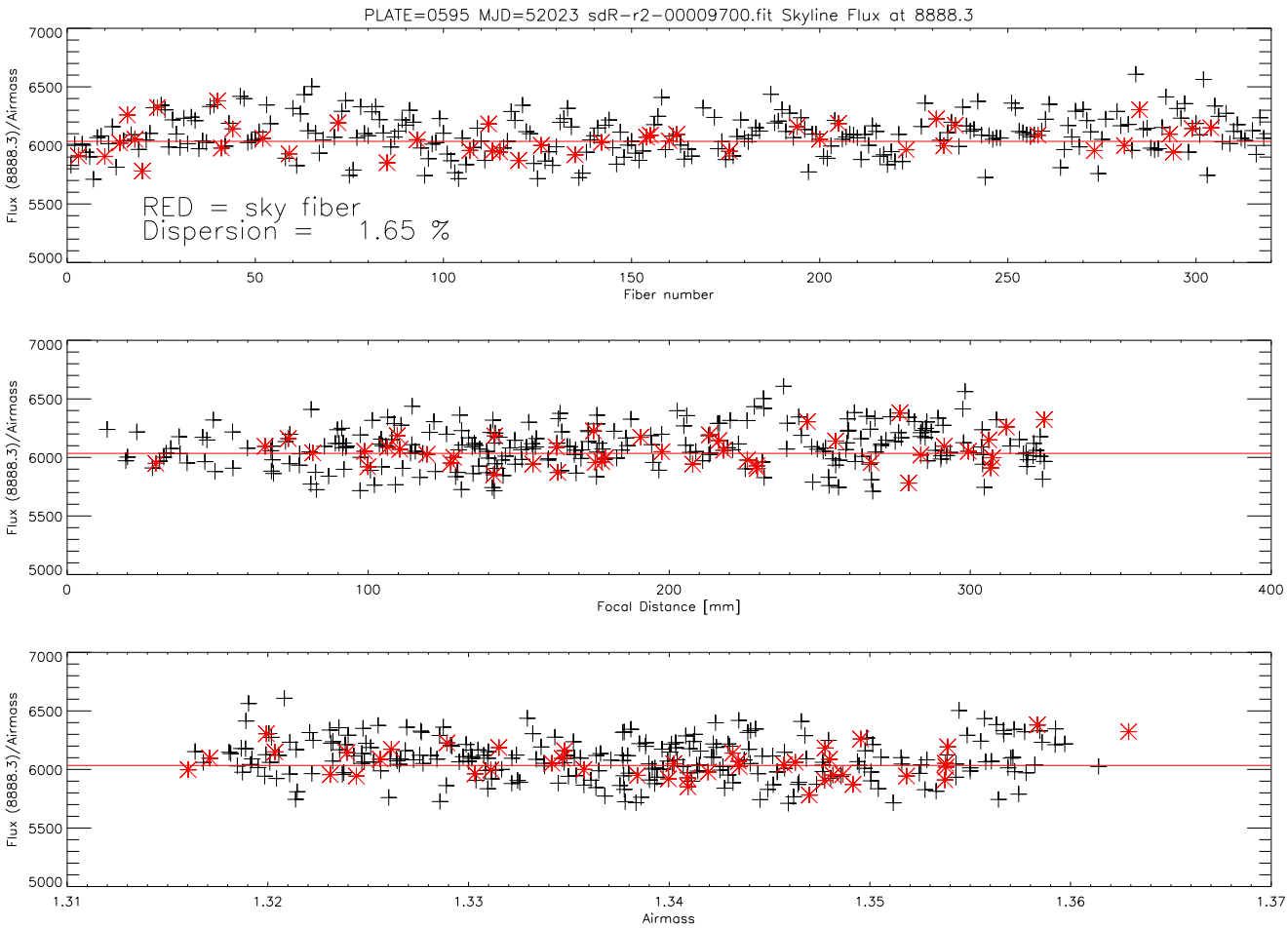

PLATE=0595 MJD=52023 sdR-r2-00009700.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-1.1e-06
-1e-06
-9e-07
-8e-07
-7e-07
-6e-07
-5e-07
-4e-07
-3e-07
-2e-07
-1e-07
0
1e-07
2e-07
3e-07
4e-07
5e-07
6e-07
50
100
150
200
250
300
Fiber number

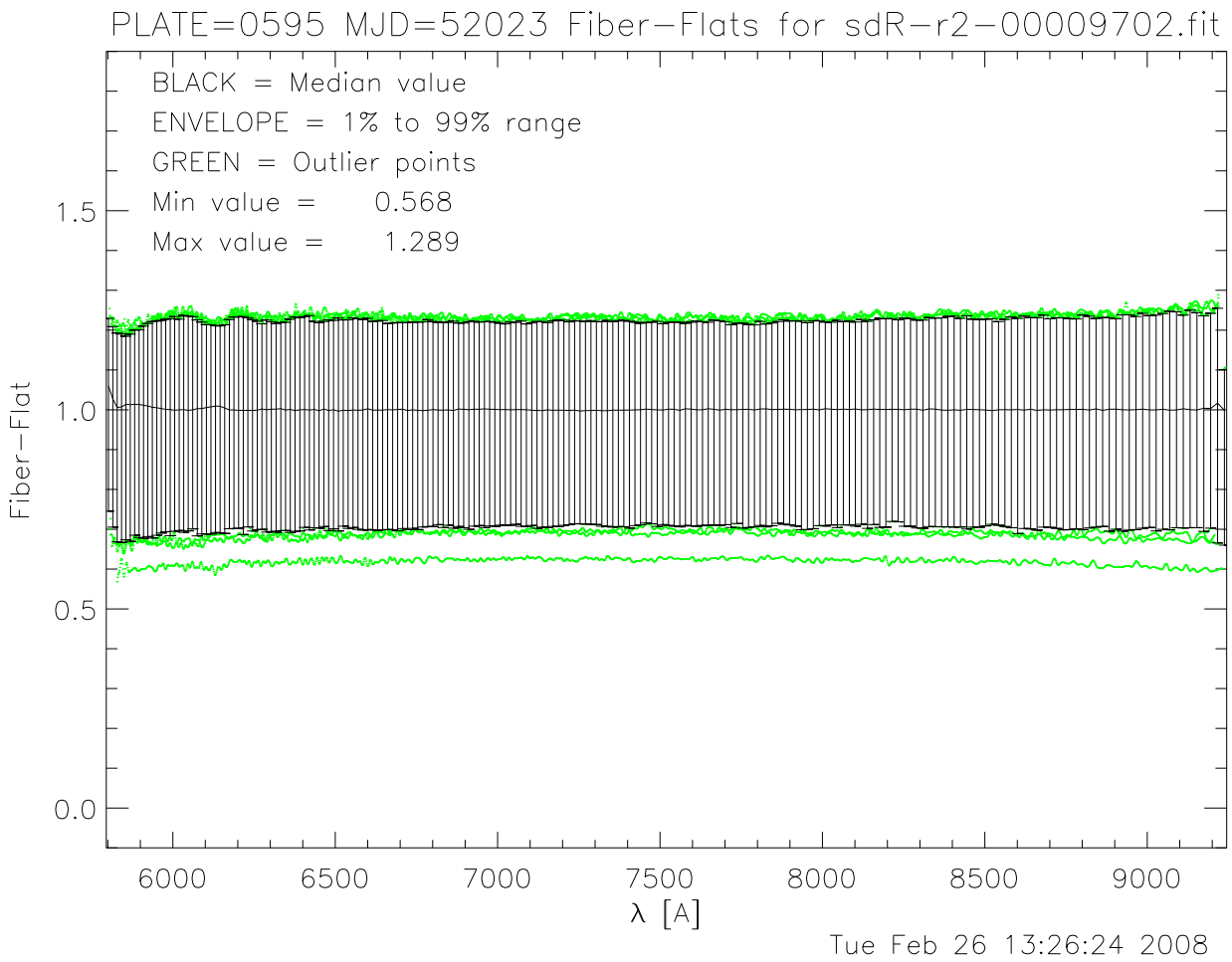

PLATE=0595 MJD=52023 sdR-r2-00009700.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

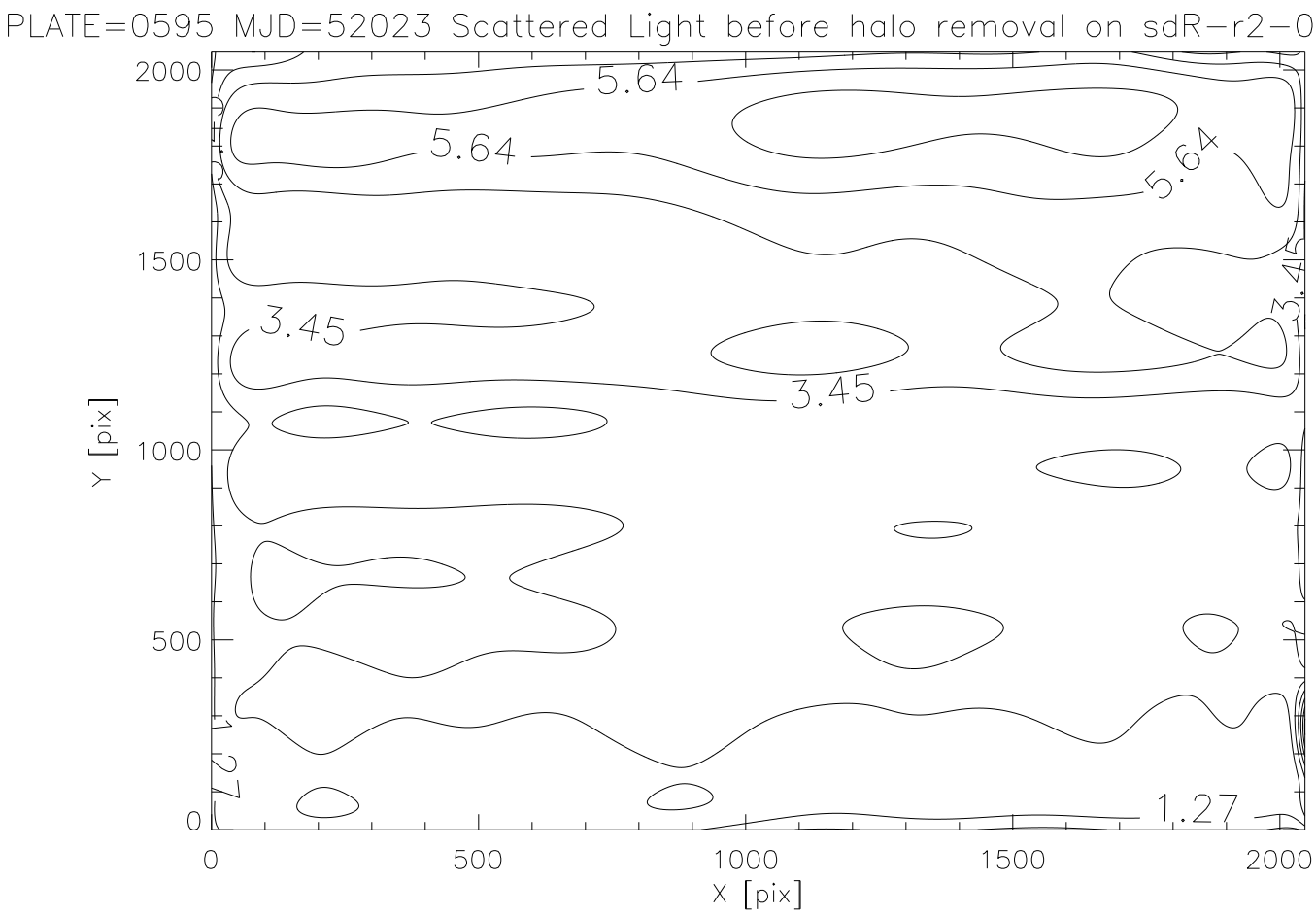

PLATE=0595 MJD=52023 sdR-r2-00009700.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

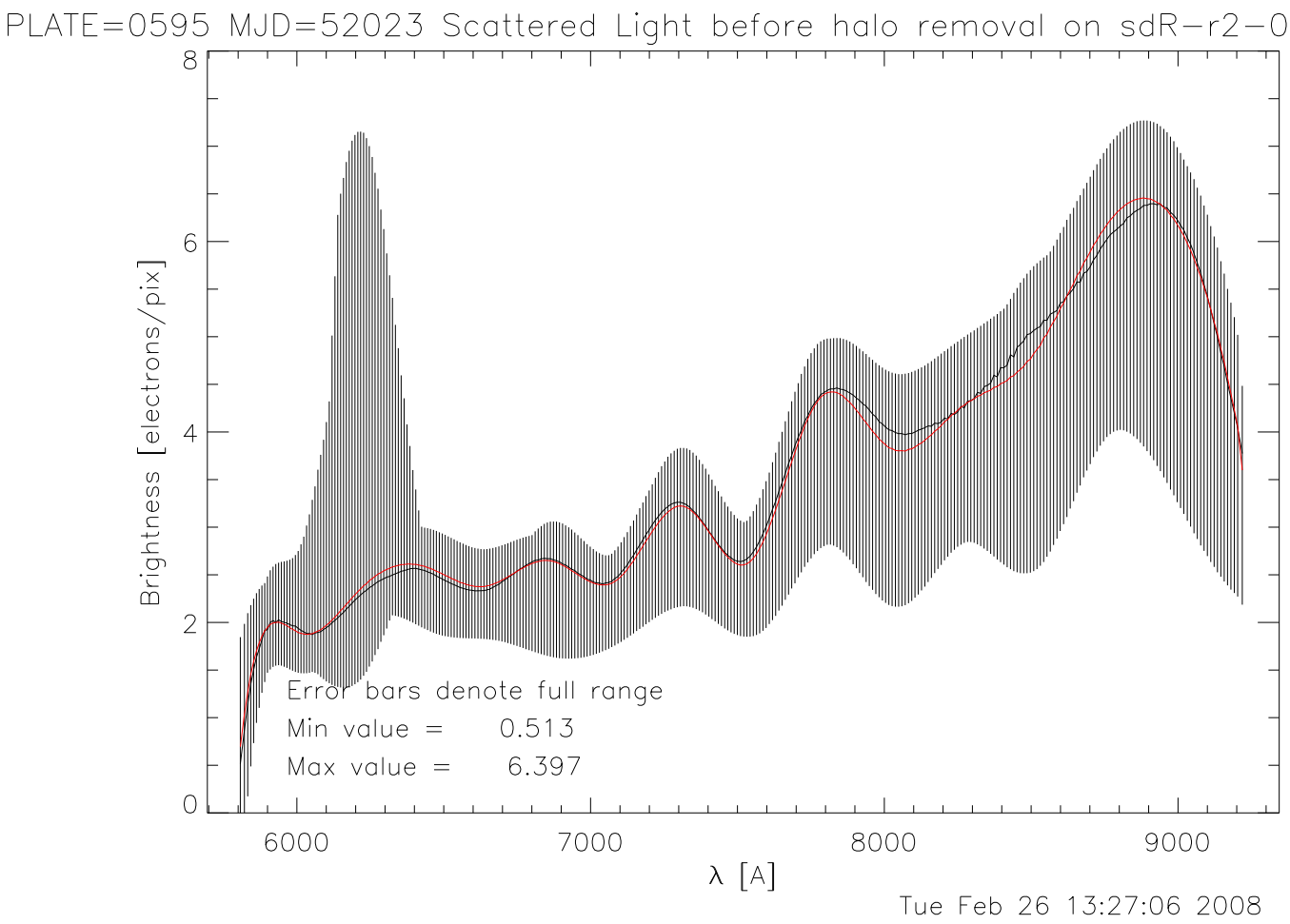

Number of sky fibers = 43
PLATE=0595 MJD=52023 sdR-r2-00009700.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

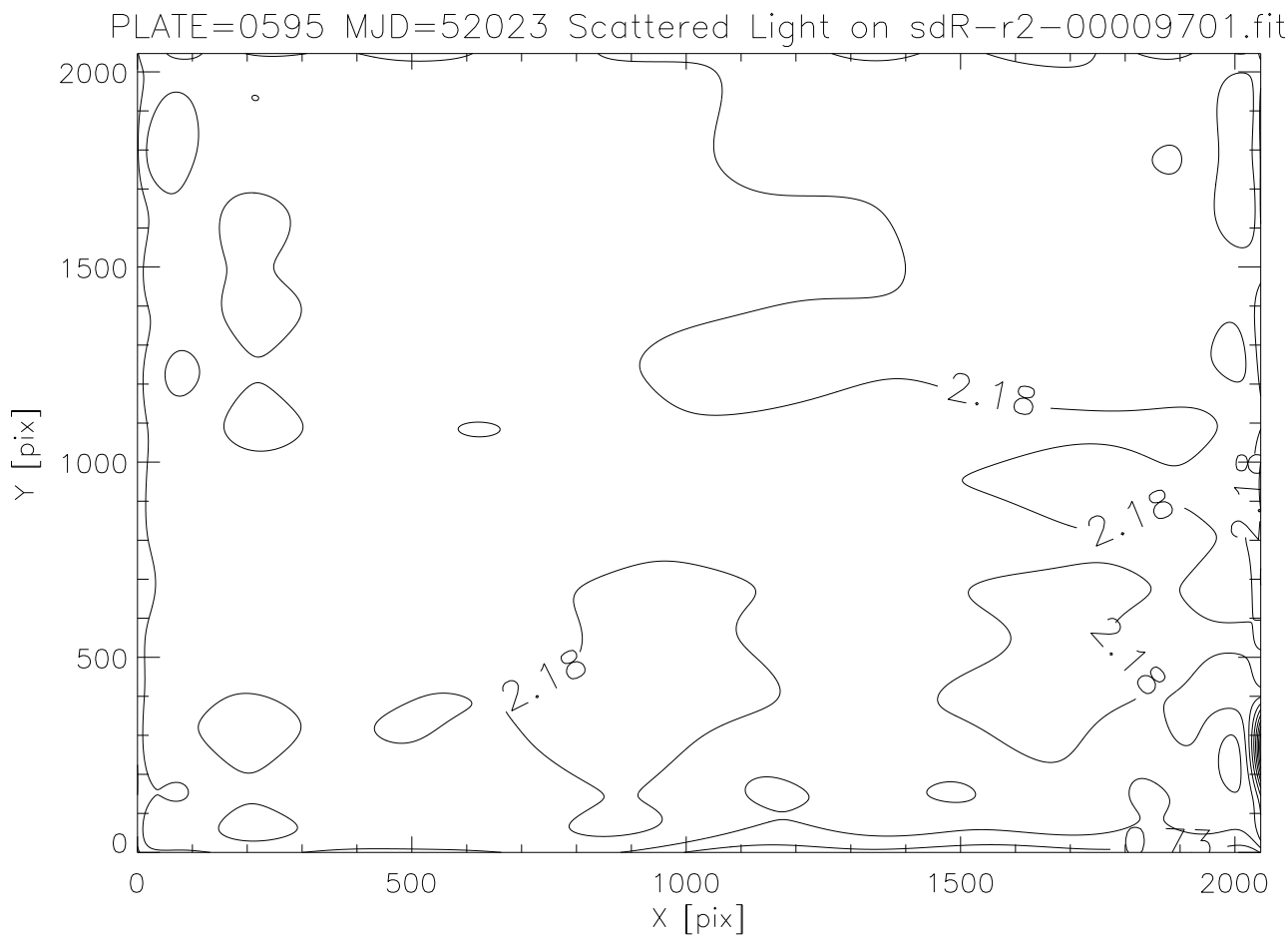

PLATE=0595 MJD=52023 sdR-r2-00009700.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.45 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

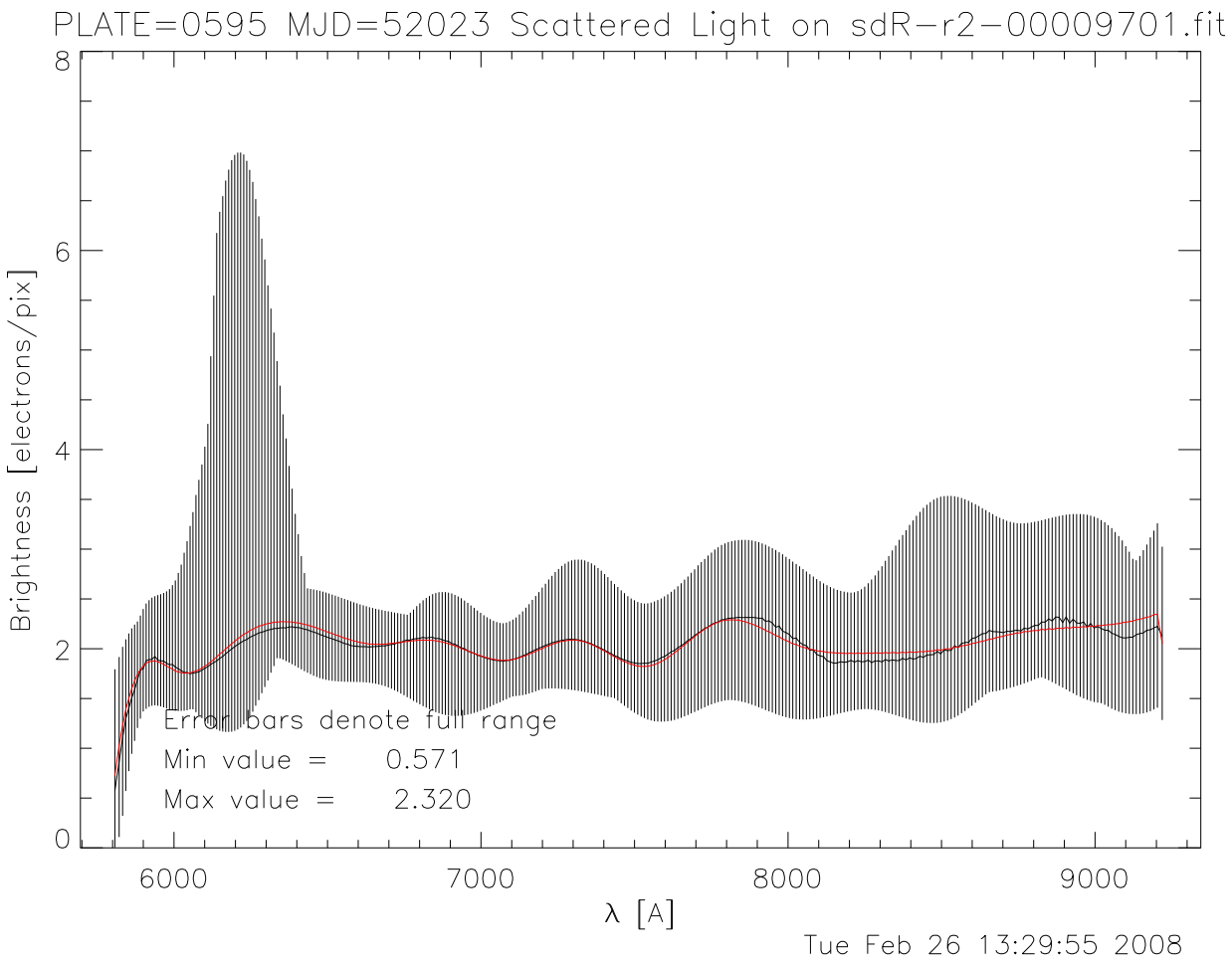

PLATE=0595 MJD=52023 sdR-r2-00009700.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.65 %
Fiber number
Focal Distance [mm]
Airmass

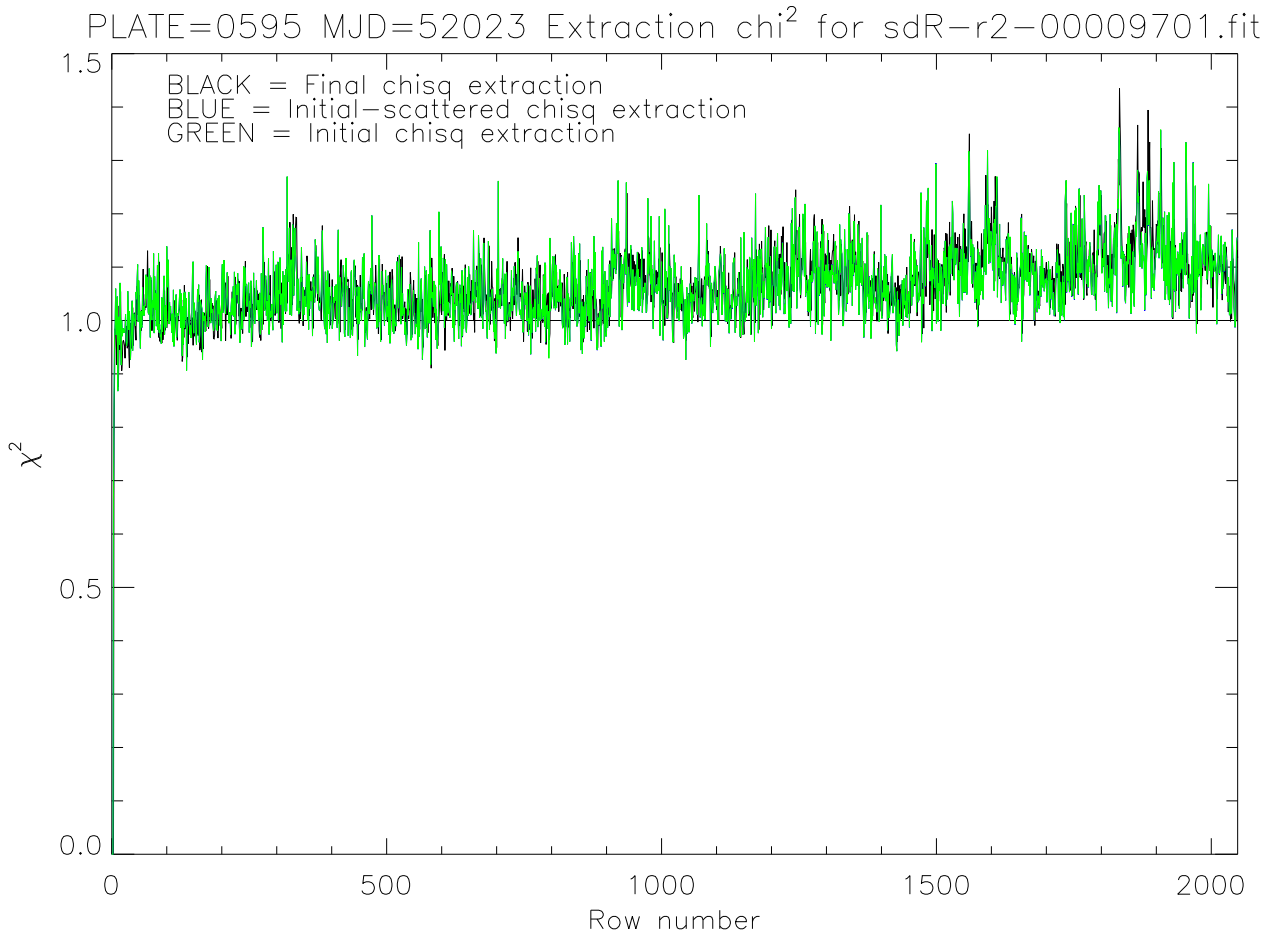

PLATE=0595 MJD=52023 Fiber−Flats for sdR−r2−00009702.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.568
Max value = 1.289
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Feb 26 13:26:24 2008

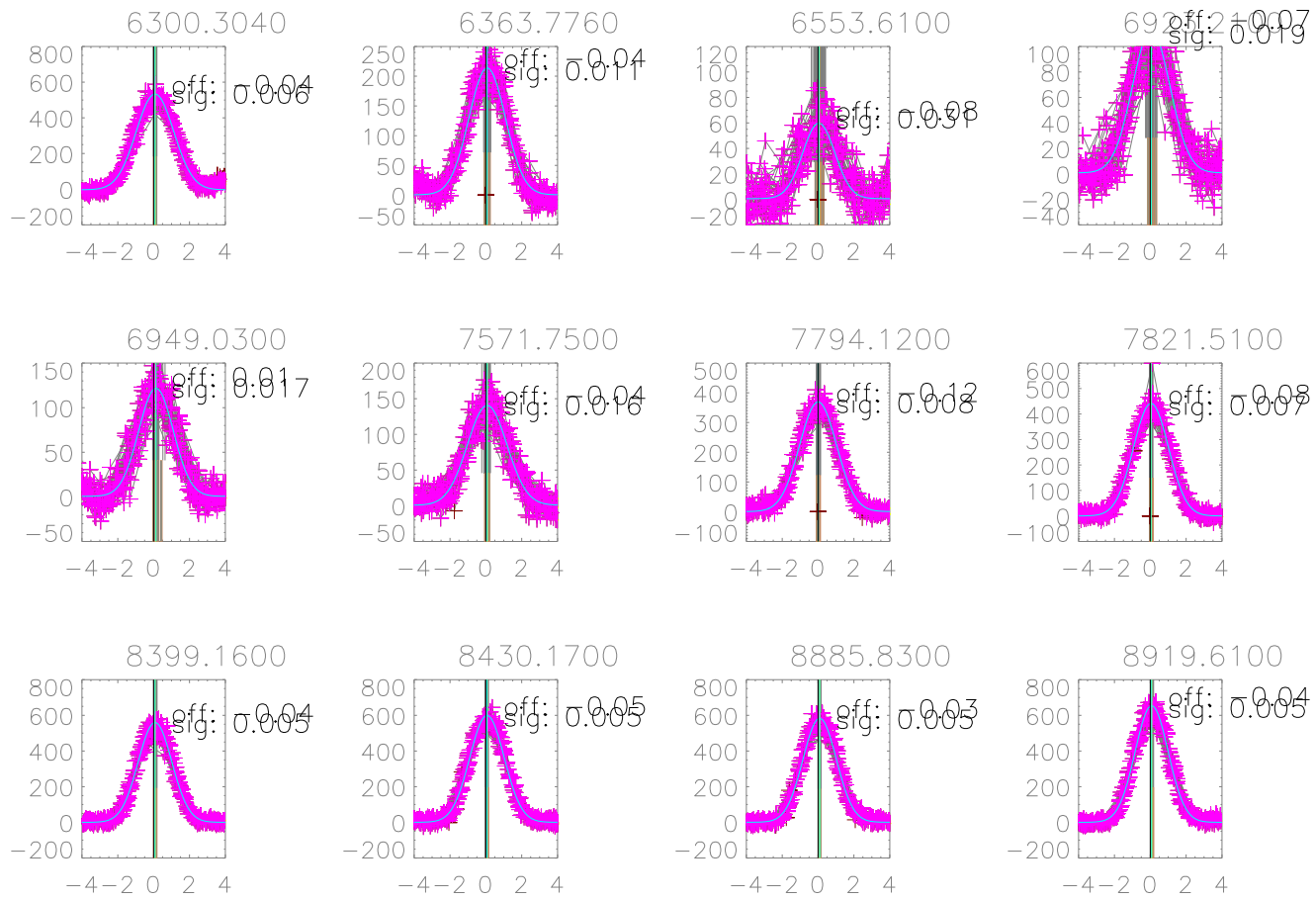

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-r2-00009701.fi
5.64
5.64
5.64
3.45
3.45
3.45
1.27
1.27
Y [pix]
X [pix]
0
500
1000
1500
2000

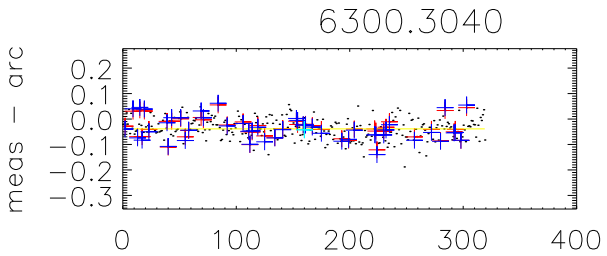

PLATE=0595 MJD=52023 Scattered Light before halo removal on sdR-r2-00009701.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.513
Max value = 6.397
Tue Feb 26 13:27:06 2008

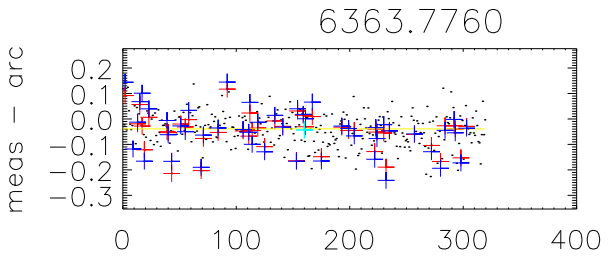

PLATE=0595 MJD=52023 Scattered Light on sdR-r2-00009701.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
2.18
2.18
2.18
2.18
2.18
0.73

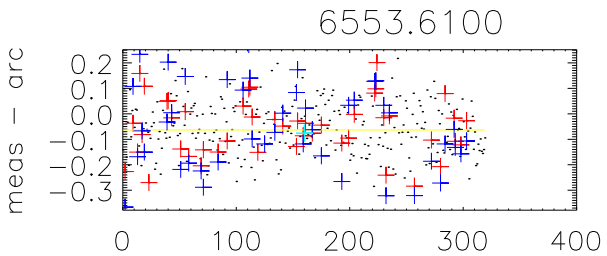

PLATE=0595 MJD=52023 Scattered Light on sdR-r2-00009701.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.571
Max value = 2.320
Tue Feb 26 13:29:55 2008

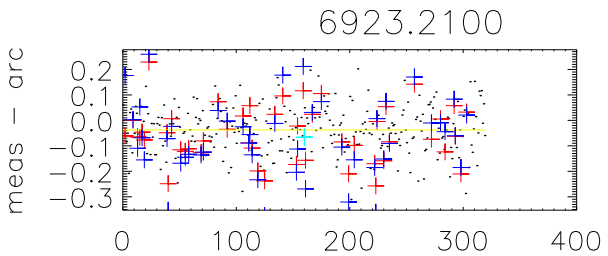

PLATE=0595 MJD=52023 Extraction chi^2 for sdR−r2−00009701.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

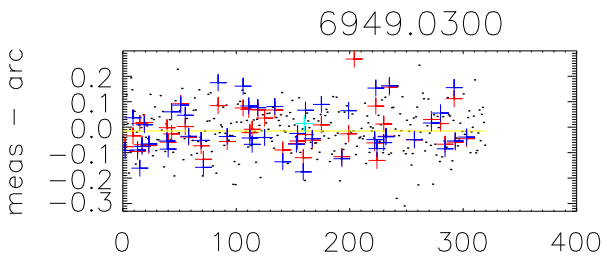

6300.3040
off: −0.04
sig: 0.006
6363.7760
off: −0.04
sig: 0.011
6553.6100
off: −0.08
sig: 0.031
6923.2100
off: −0.07
sig: 0.019
6949.0300
off: −0.01
sig: 0.017
7571.7500
off: −0.04
sig: 0.016
7794.1200
off: −0.12
sig: 0.008
7821.5100
off: −0.08
sig: 0.007
8399.1600
off: −0.04
sig: 0.005
8430.1700
off: −0.05
sig: 0.005
8885.8300
off: −0.03
sig: 0.005
8919.6100
off: −0.04
sig: 0.005

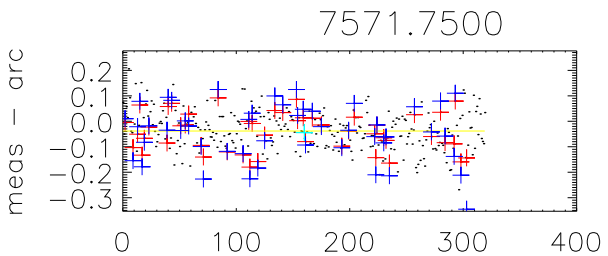

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

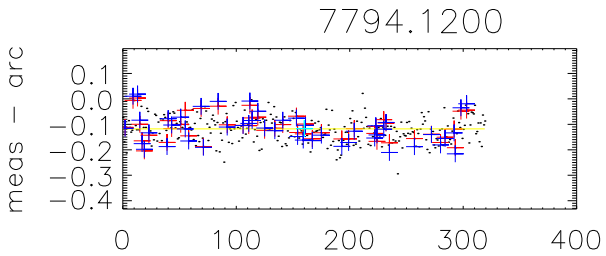

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

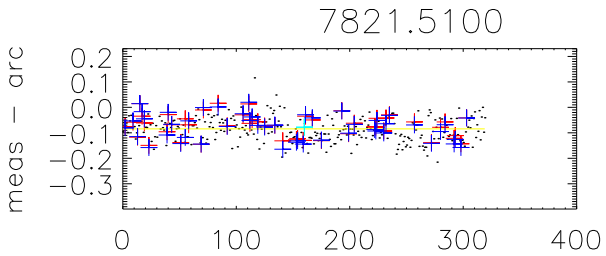

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

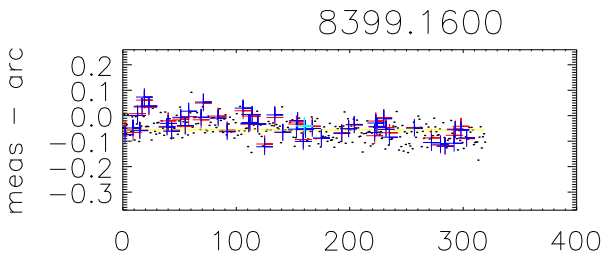

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

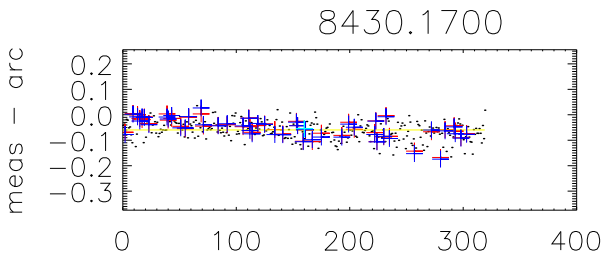

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

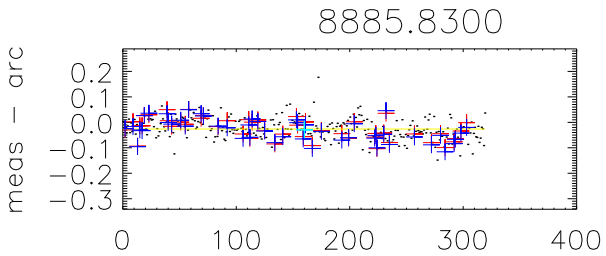

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

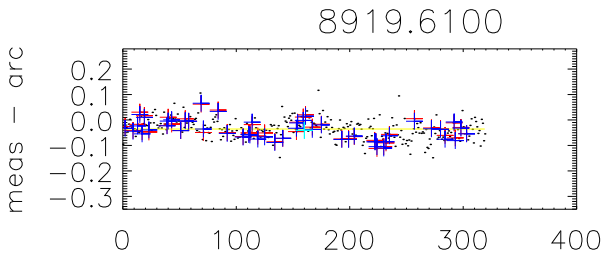

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

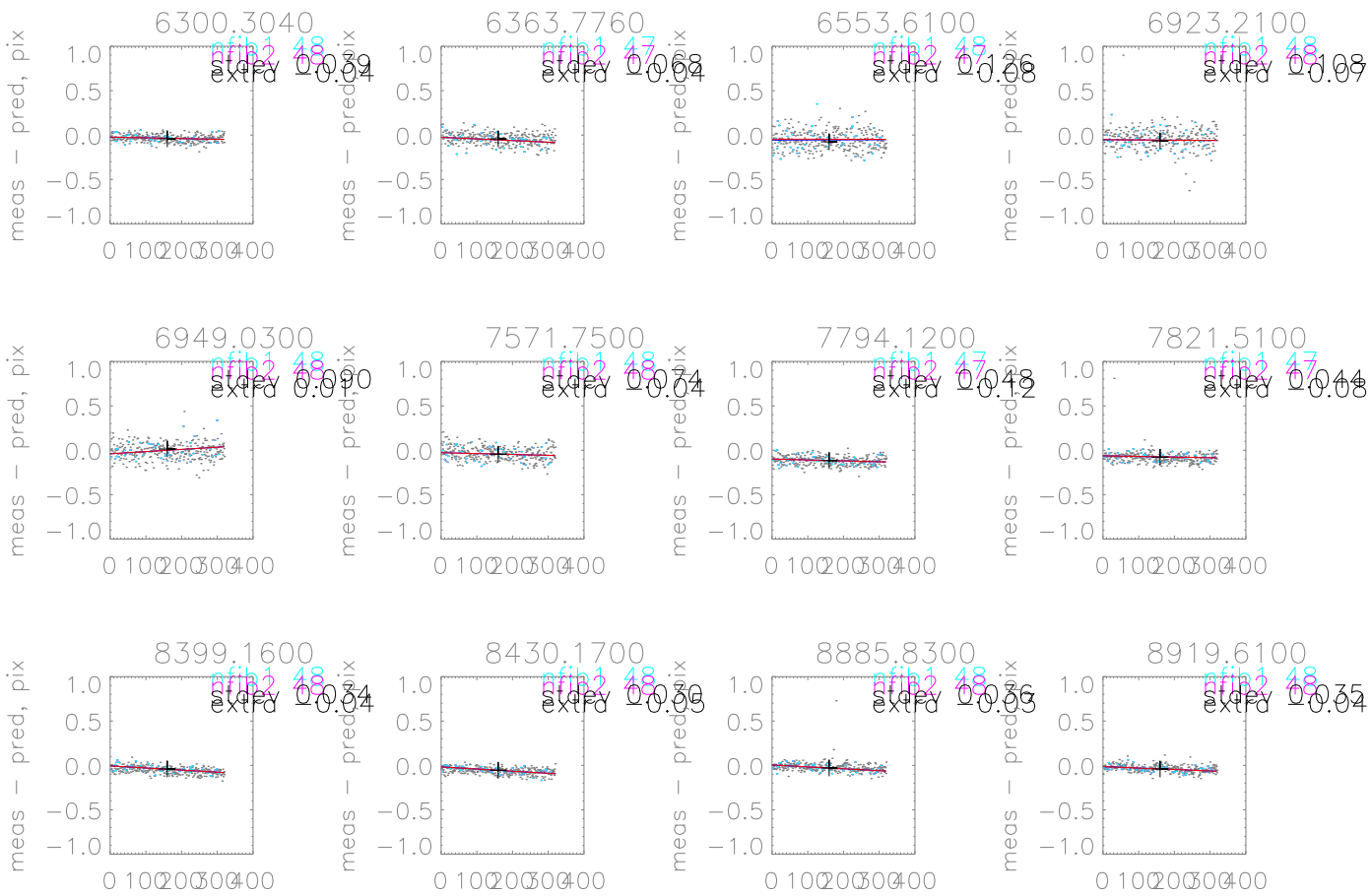

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

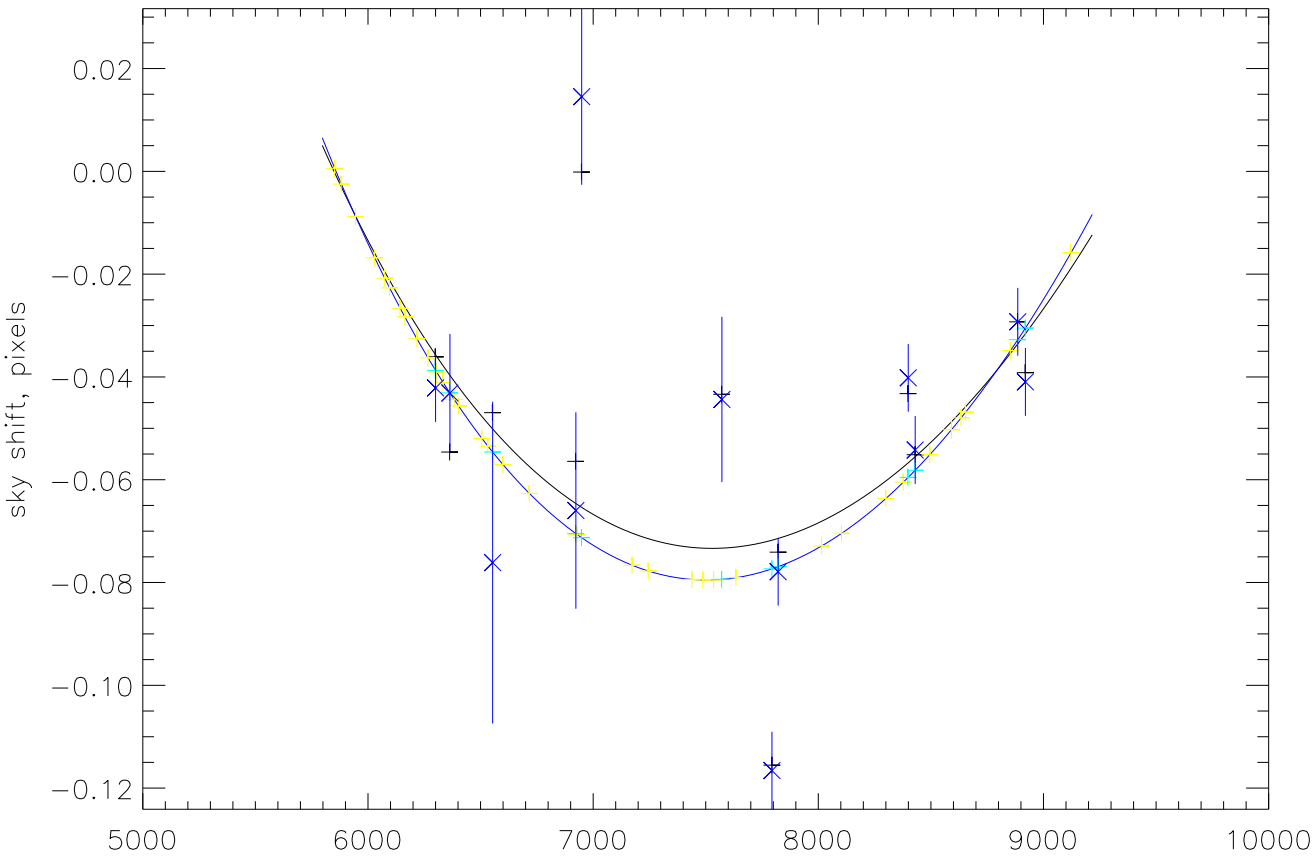

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

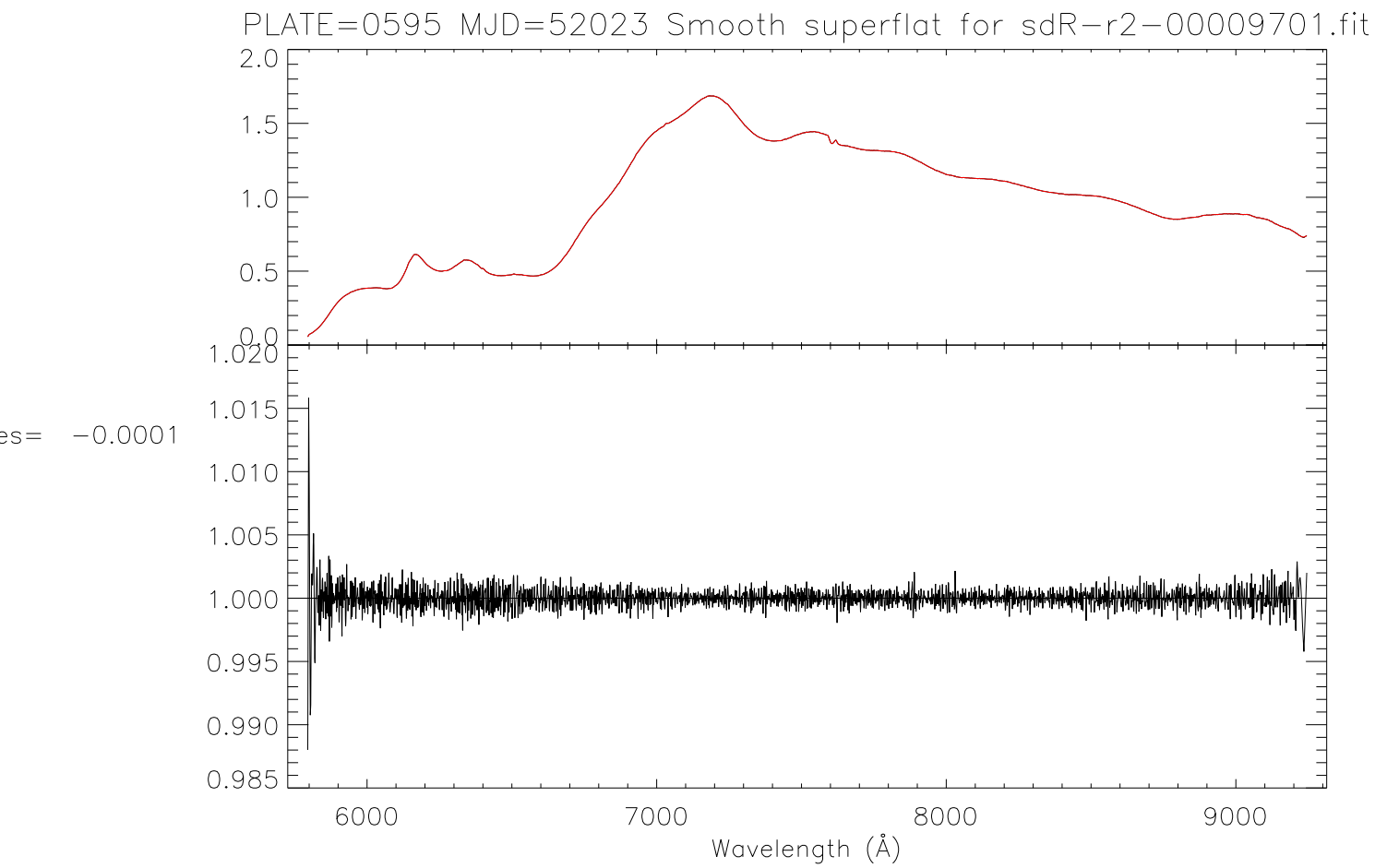

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

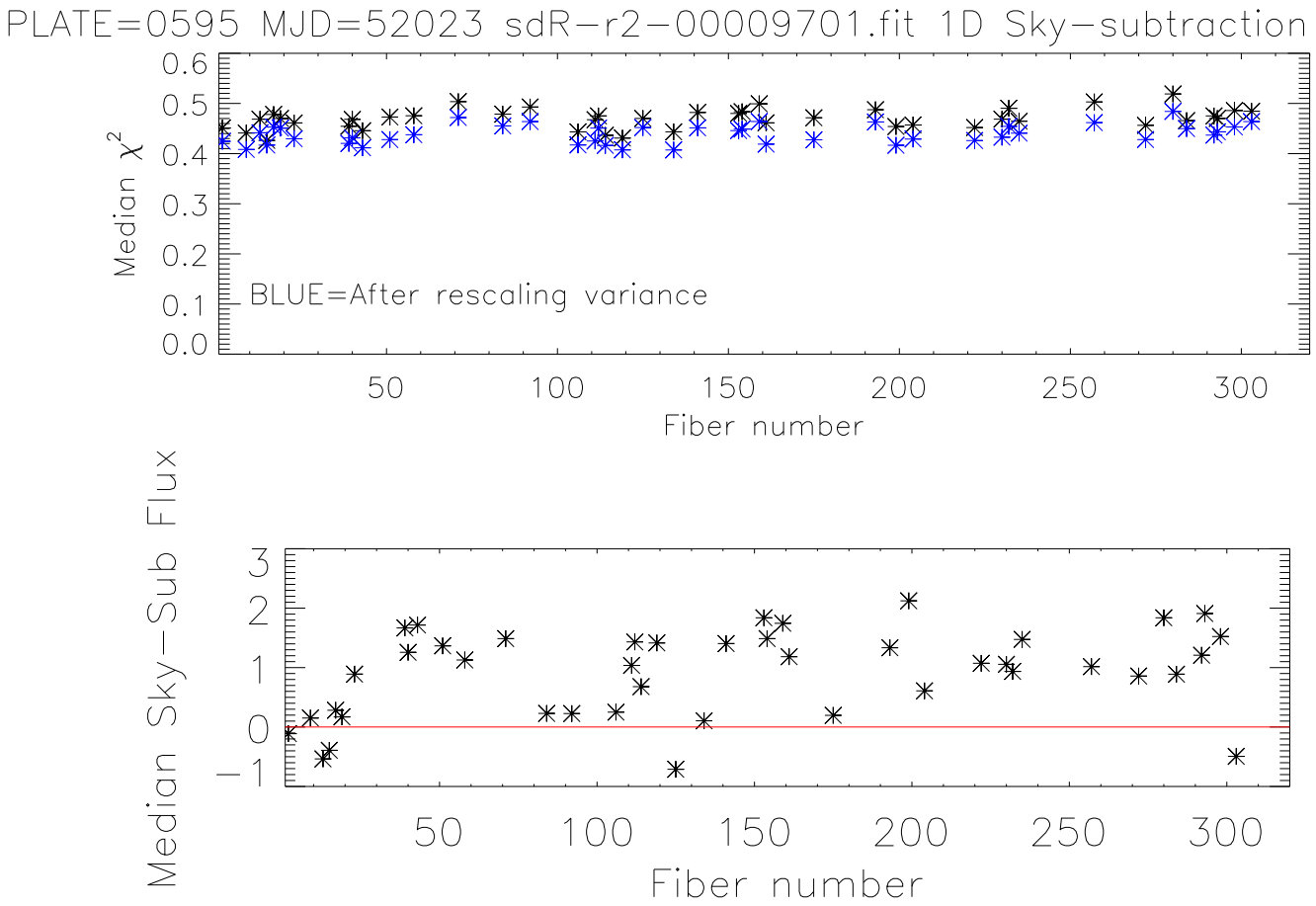

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

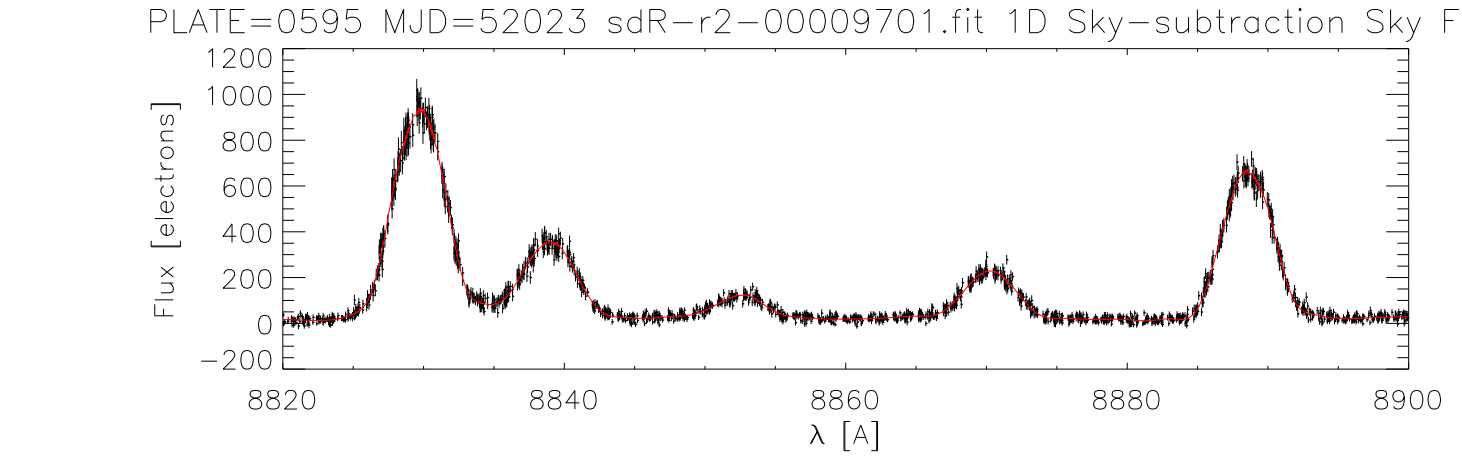

6300.3040
mfib1 48
mfib2 48
stdev 0.039
extrd 0.04
6363.7760
mfib1 48
mfib2 47
stdev 0.068
extrd 0.04
6553.6100
mfib1 48
mfib2 47
stdev 0.126
extrd 0.08
6923.2100
mfib1 48
mfib2 48
stdev 0.108
extrd 0.07
6949.0300
mfib1 48
mfib2 48
stdev 0.090
extrd 0.01
7571.7500
mfib1 48
mfib2 48
stdev 0.074
extrd 0.04
7794.1200
mfib1 48
mfib2 47
stdev 0.048
extrd 0.12
7821.5100
mfib1 48
mfib2 47
stdev 0.044
extrd 0.08
8399.1600
mfib1 48
mfib2 48
stdev 0.034
extrd 0.04
8430.1700
mfib1 48
mfib2 48
stdev 0.030
extrd 0.05
8885.8300
mfib1 48
mfib2 48
stdev 0.036
extrd 0.03
8919.6100
mfib1 48
mfib2 48
stdev 0.035
extrd 0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

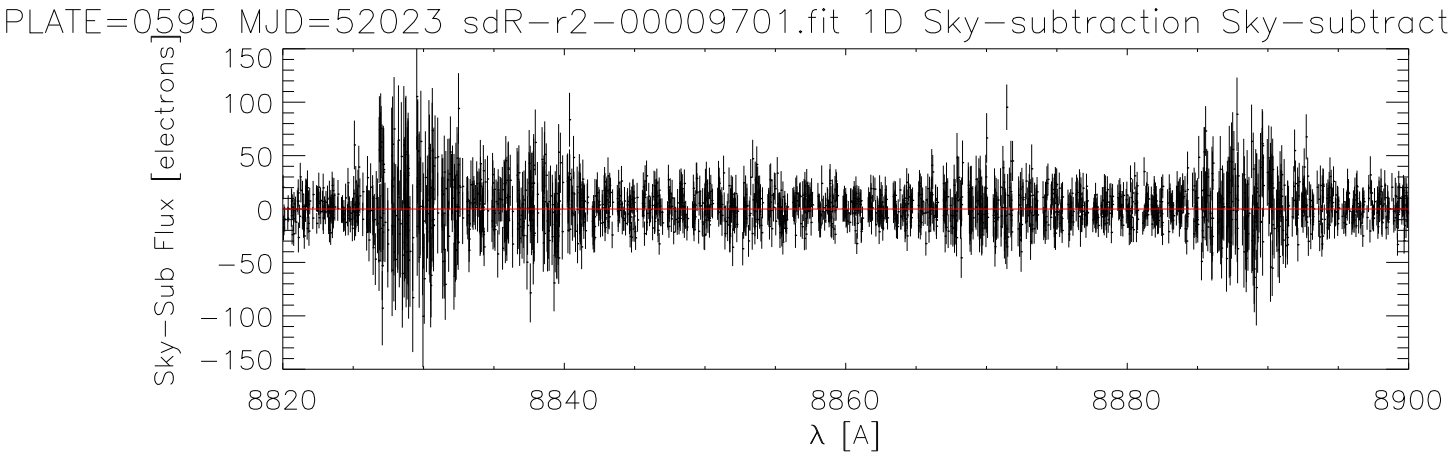

0.02
0.00
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
sky shift, pixels
5000
6000
7000
8000
9000
10000

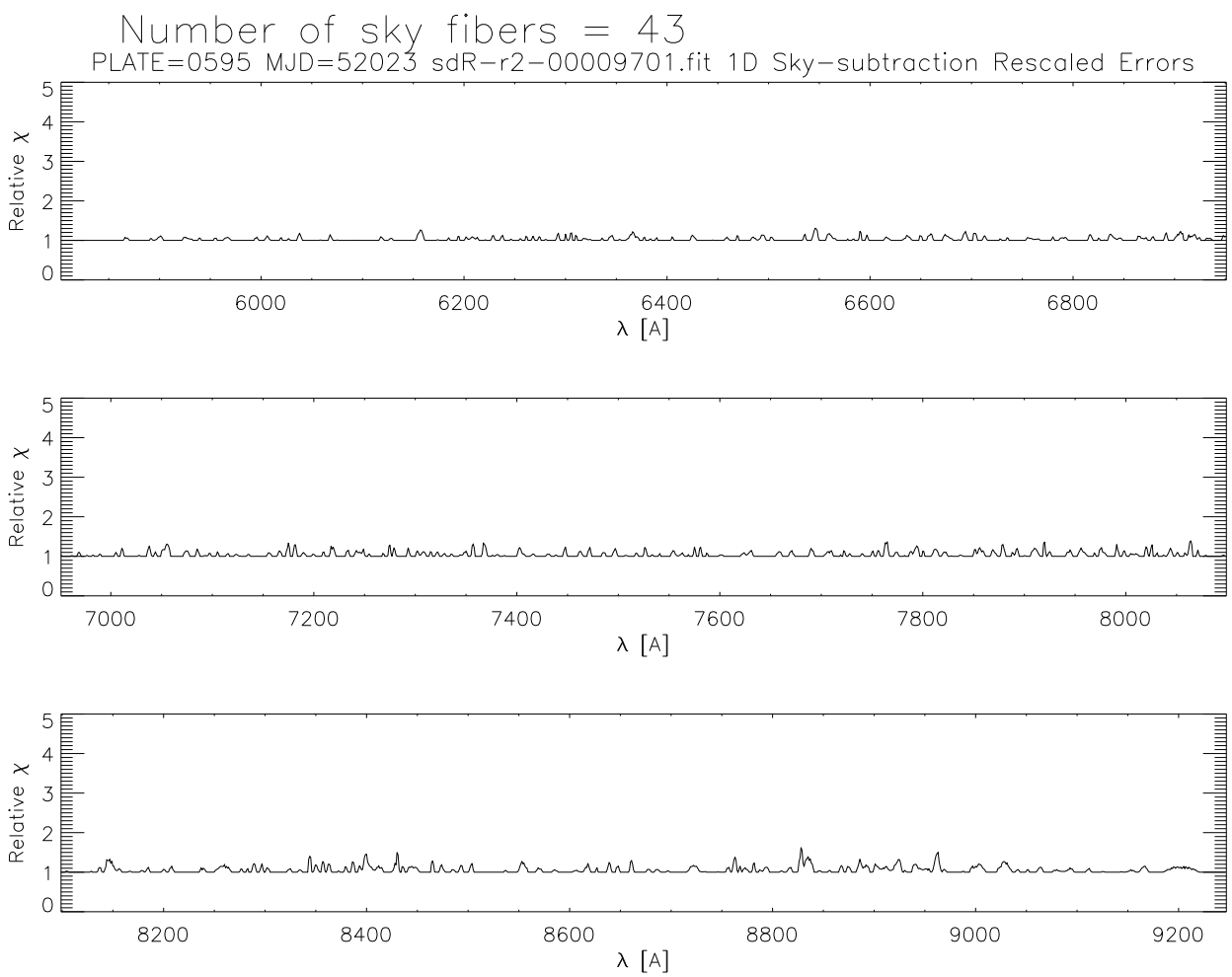

PLATE=0595 MJD=52023 Smooth superflat for sdR-r2-00009701.fit
2.0
1.5
1.0
0.5
0.0
1.020
1.015
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

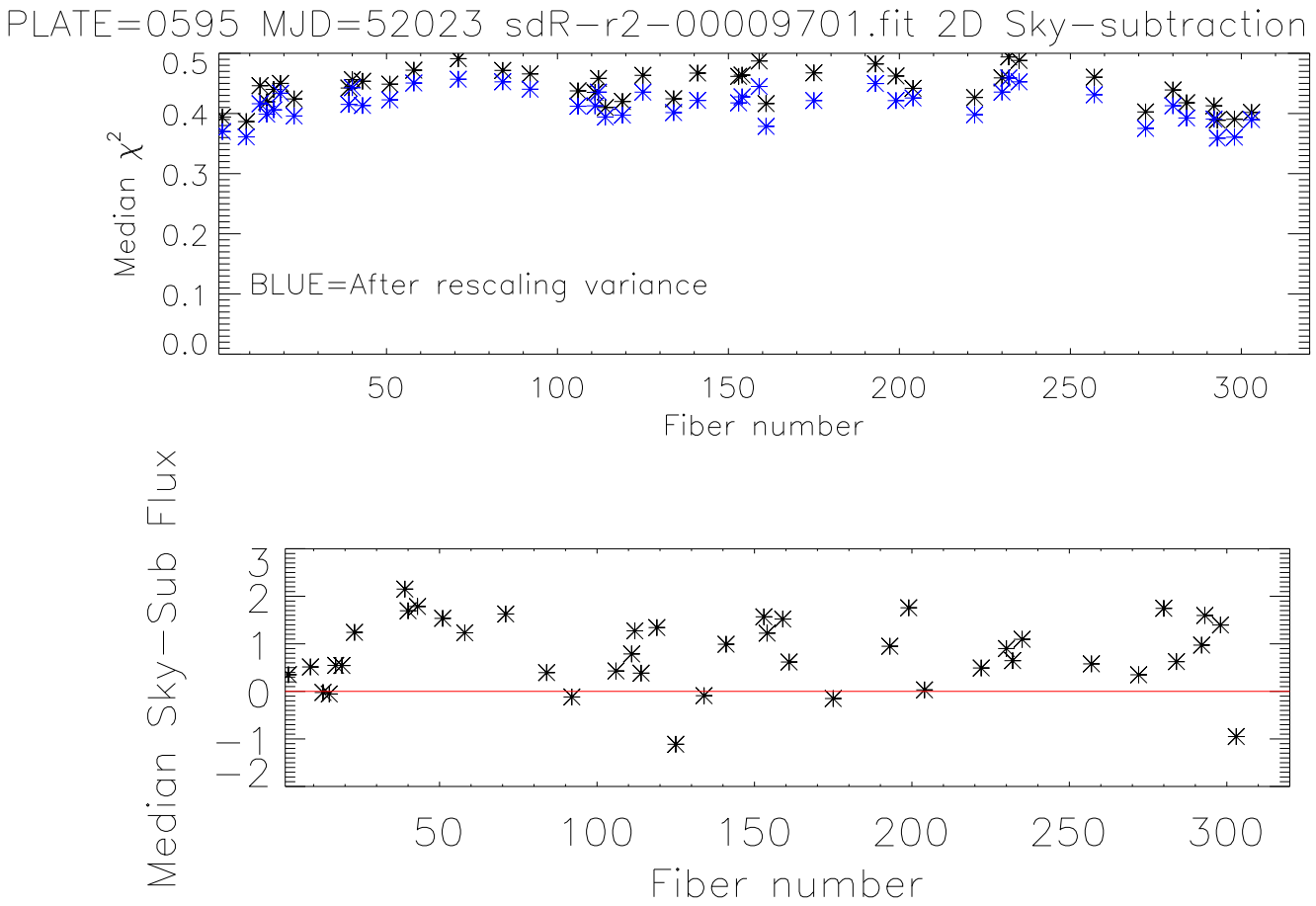
es= −0.0001

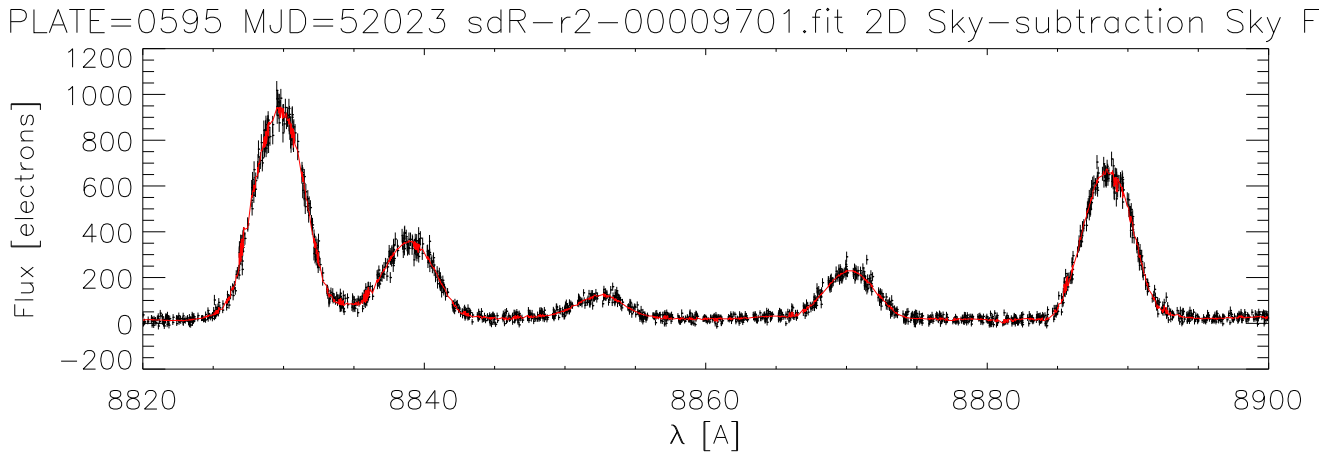

PLATE=0595 MJD=52023 sdR-r2-00009701.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

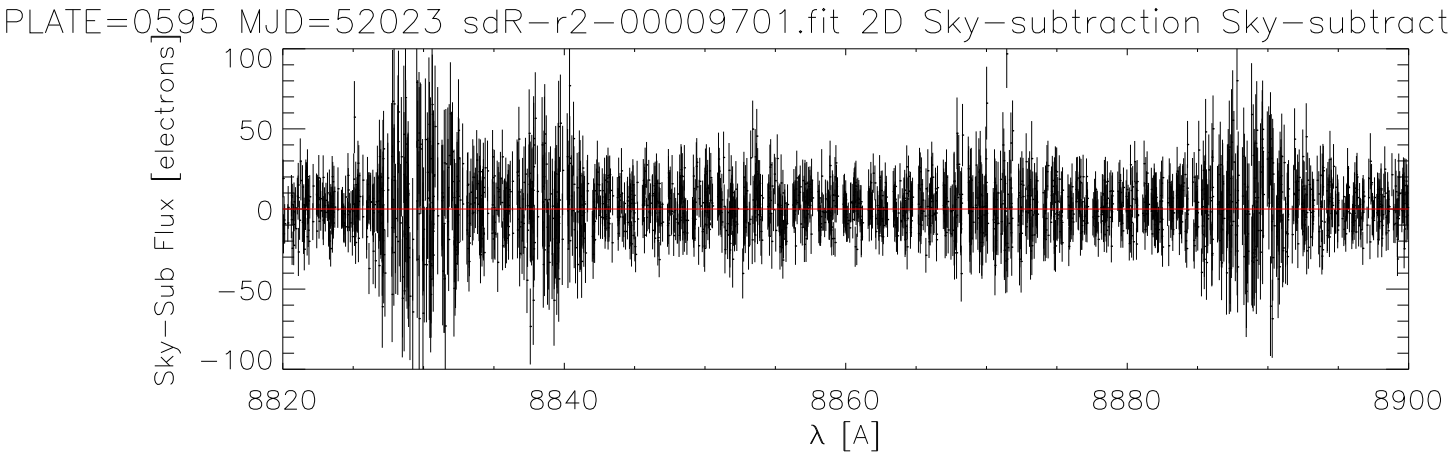

PLATE=0595 MJD=52023 sdR-r2-00009701.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

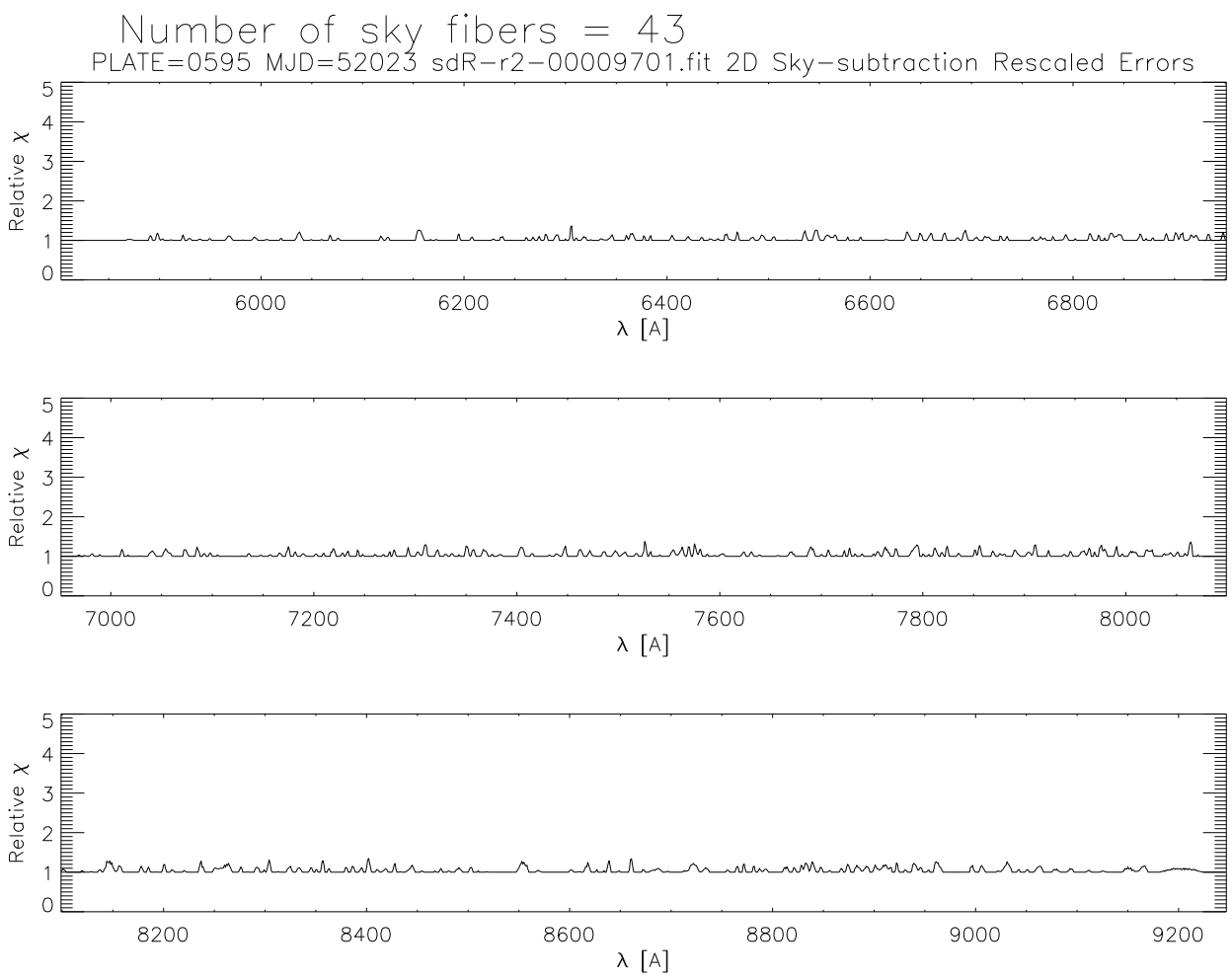

PLATE=0595 MJD=52023 sdR-r2-00009701.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

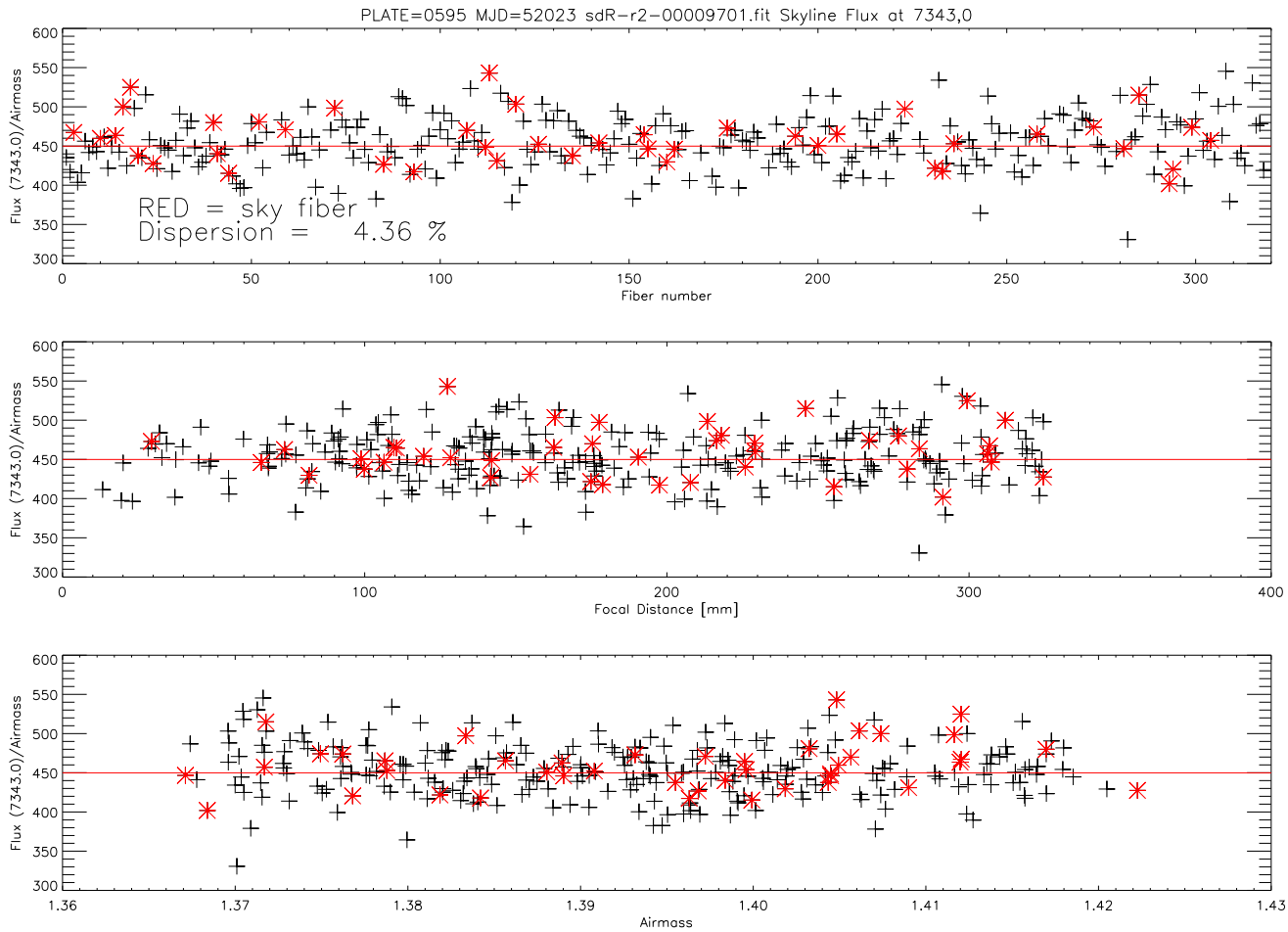

Number of sky fibers = 43
PLATE=0595 MJD=52023 sdR-r2-00009701.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

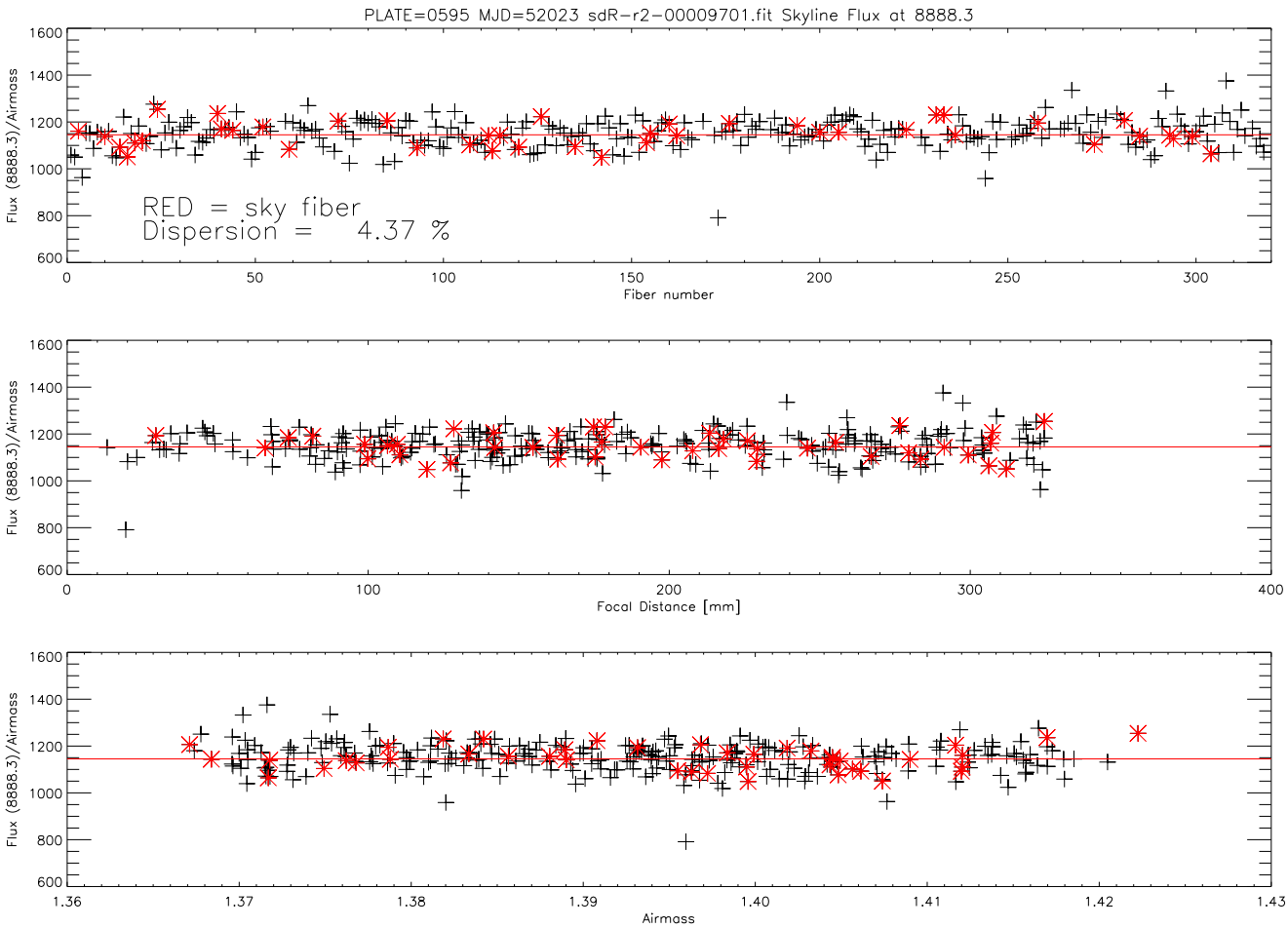

PLATE=0595 MJD=52023 sdR-r2-00009701.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number


PLATE=0595 MJD=52023 sdR-r2-00009701.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]


PLATE=0595 MJD=52023 sdR-r2-00009701.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 43
PLATE=0595 MJD=52023 sdR-r2-00009701.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200


PLATE=0595 MJD=52023 sdR-r2-00009701.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.36 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=0595 MJD=52023 sdR-r2-00009701.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.37 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass