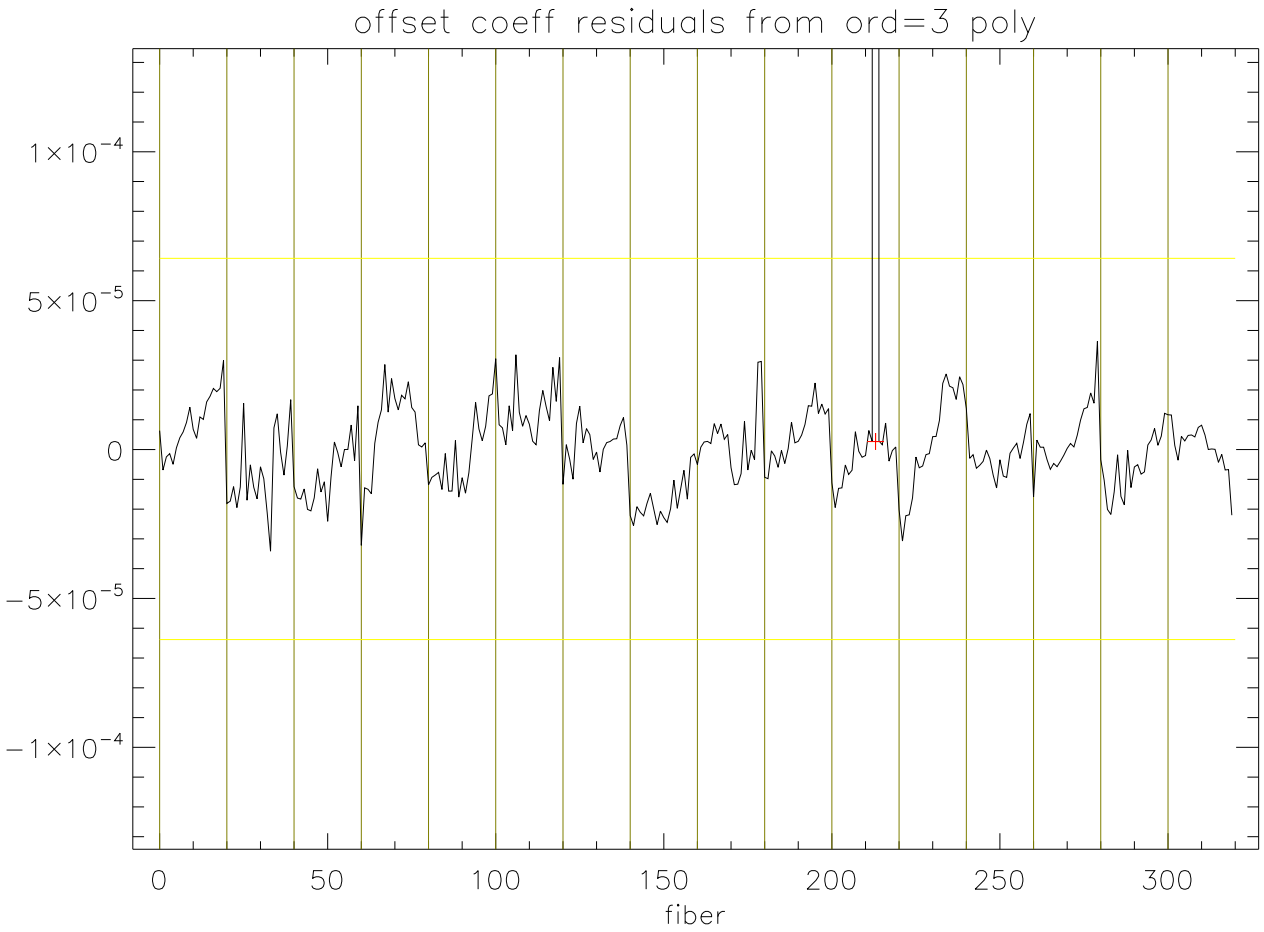
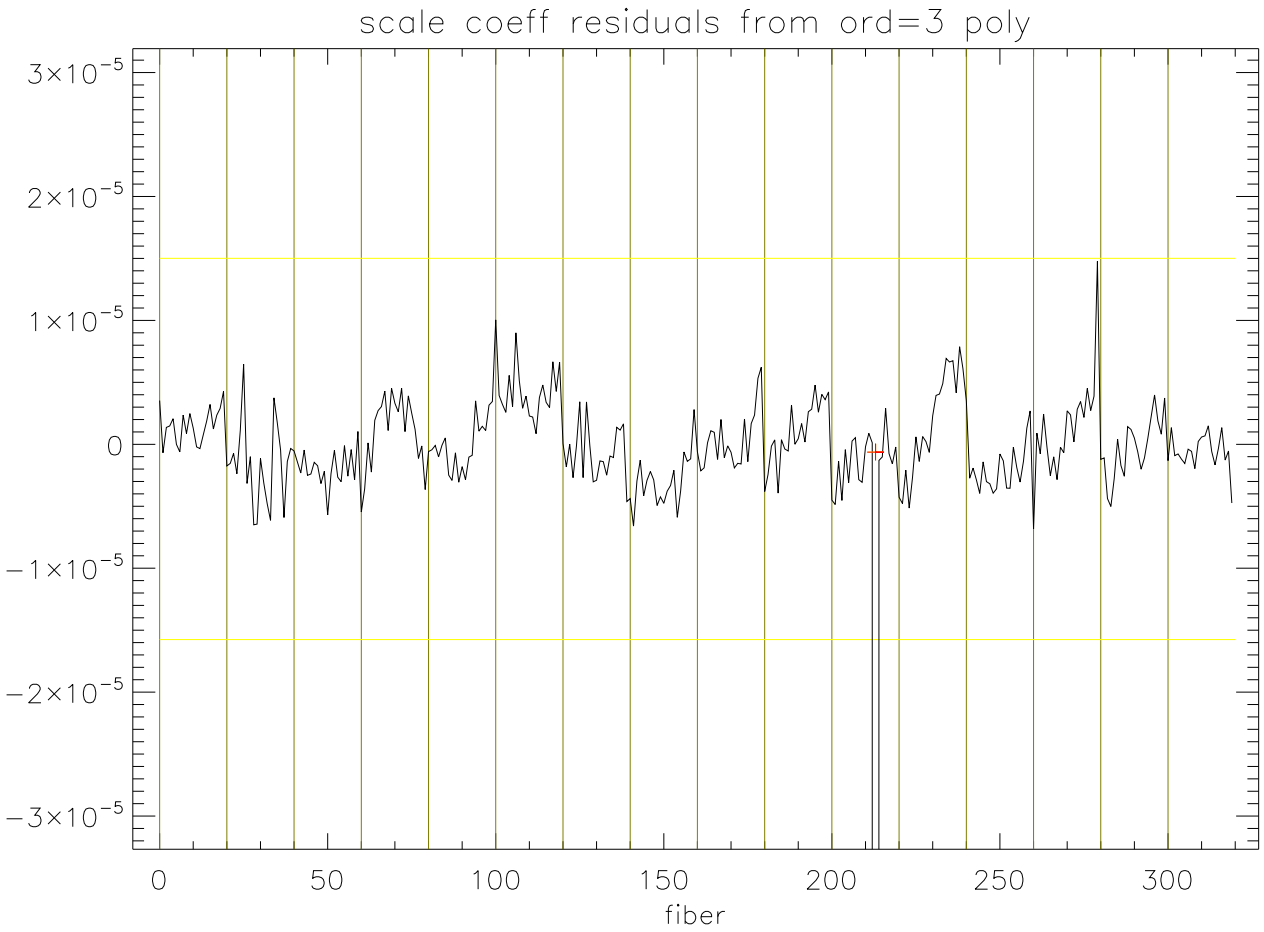
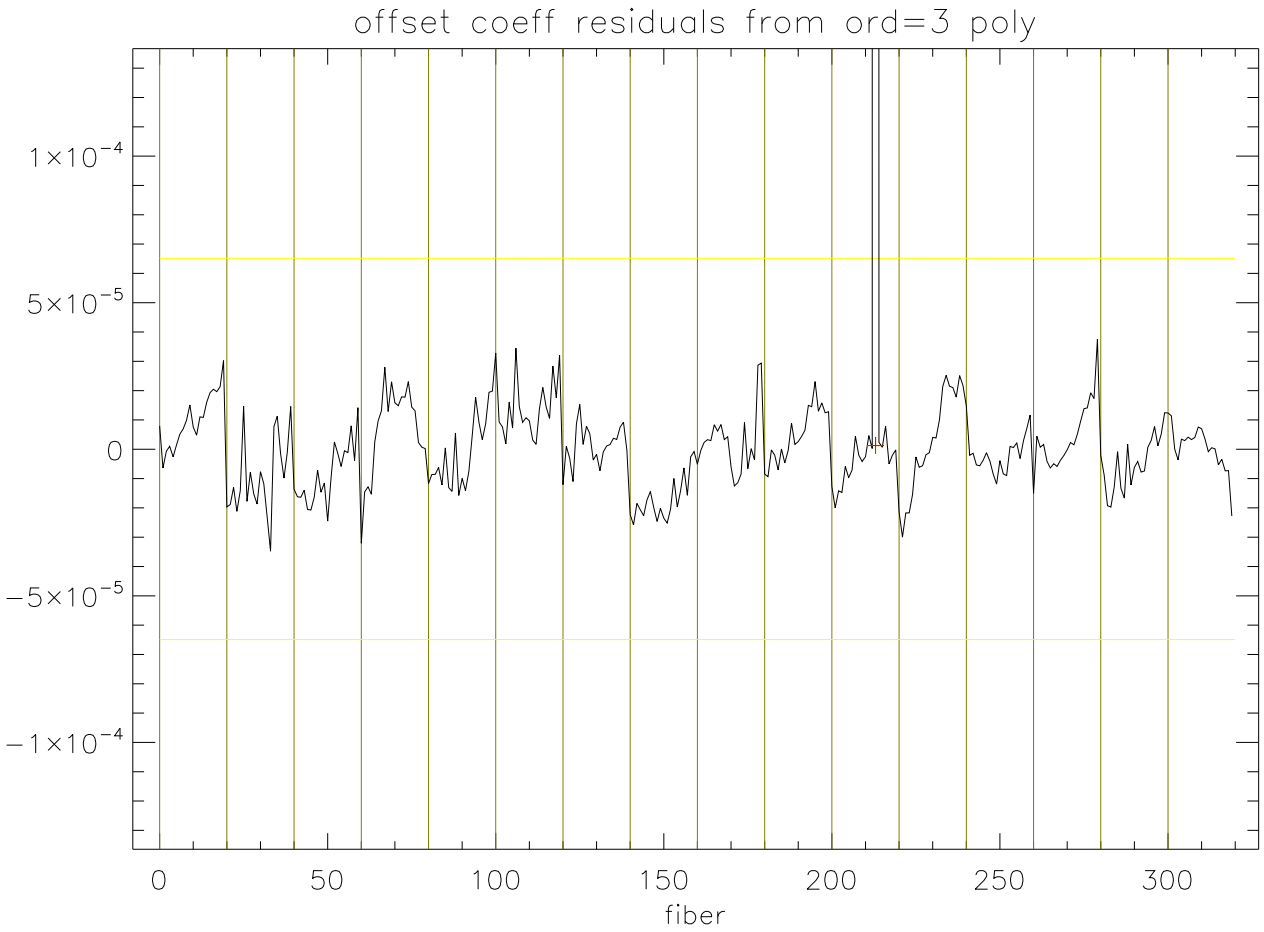
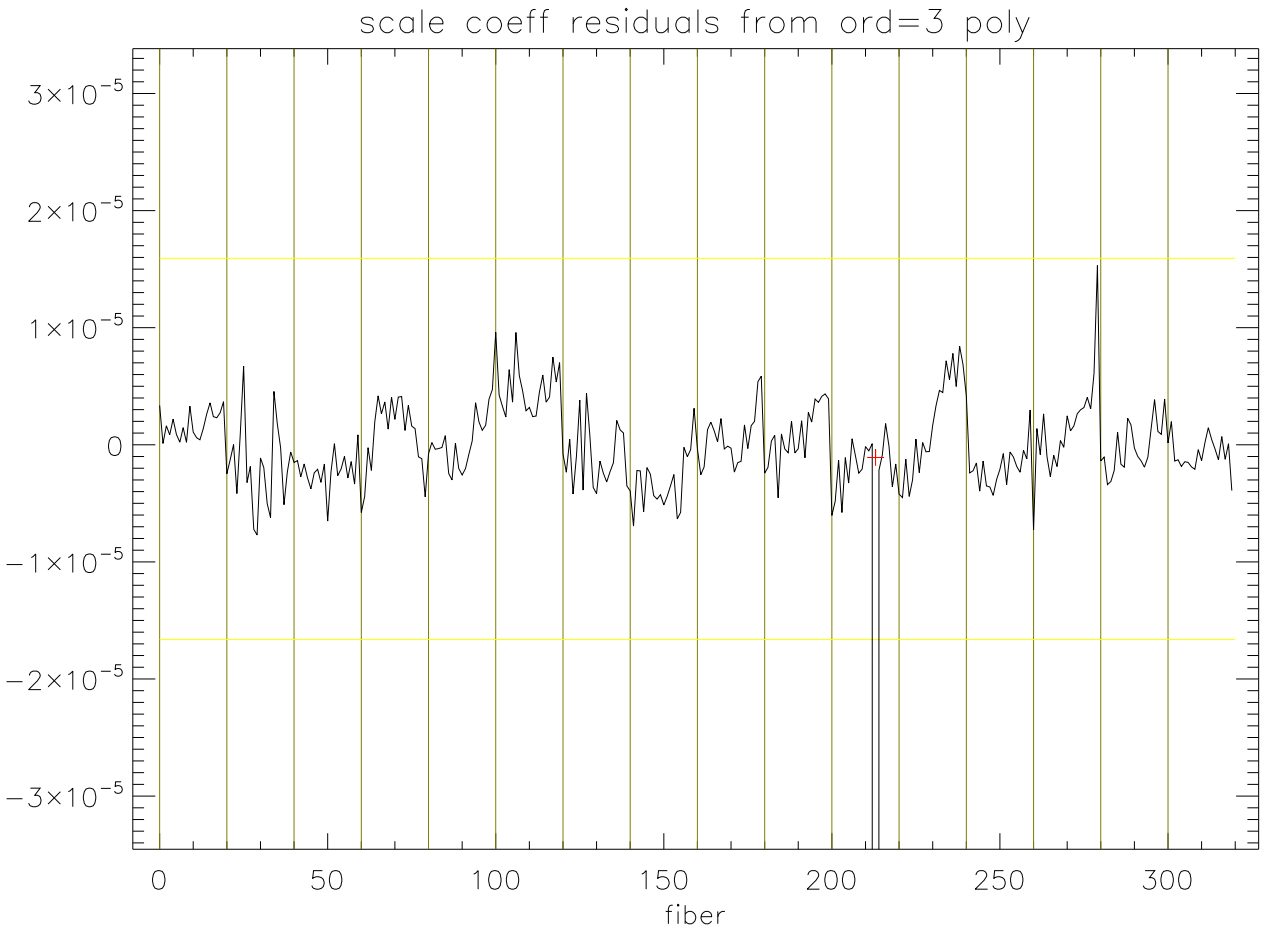
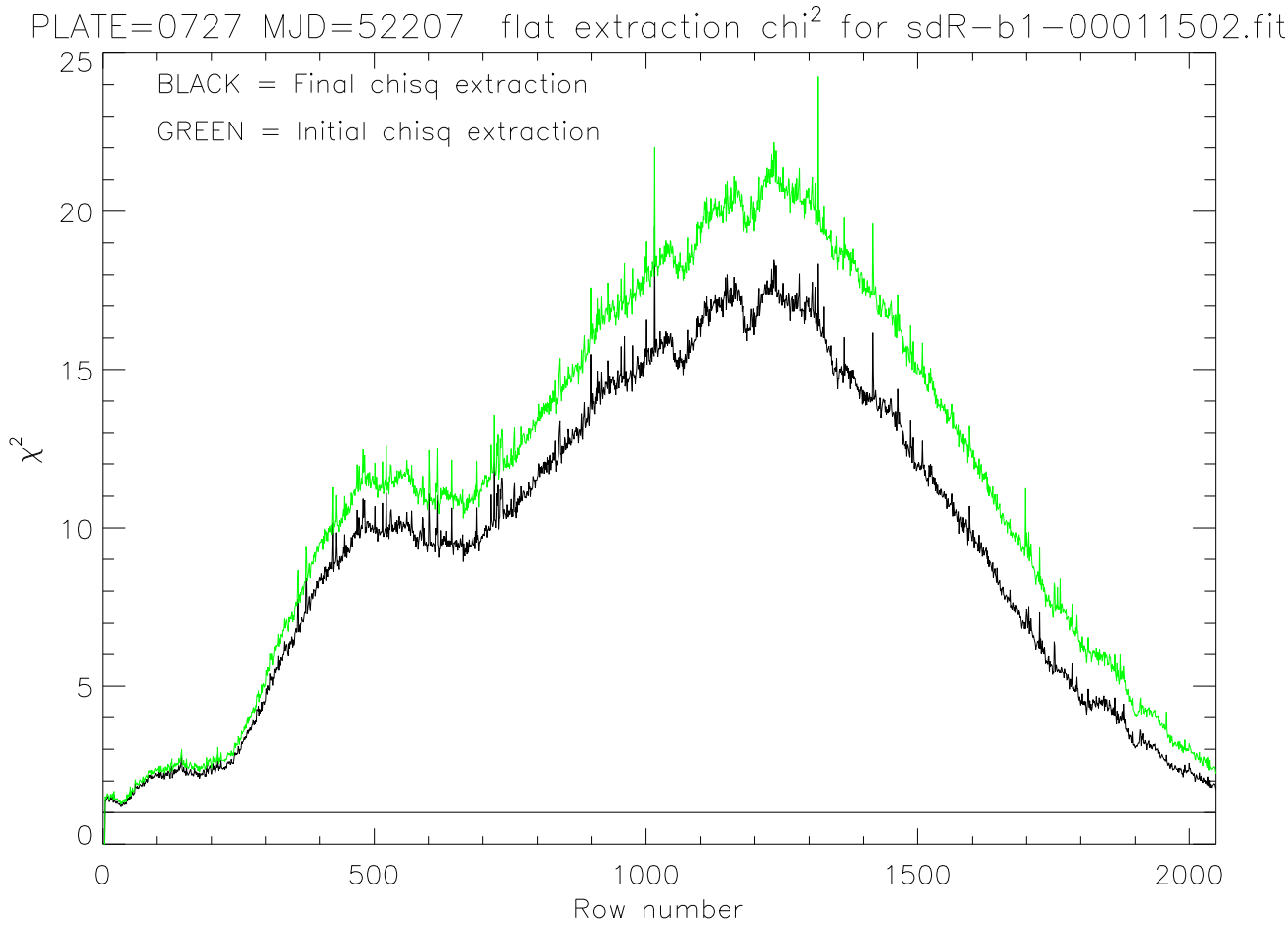
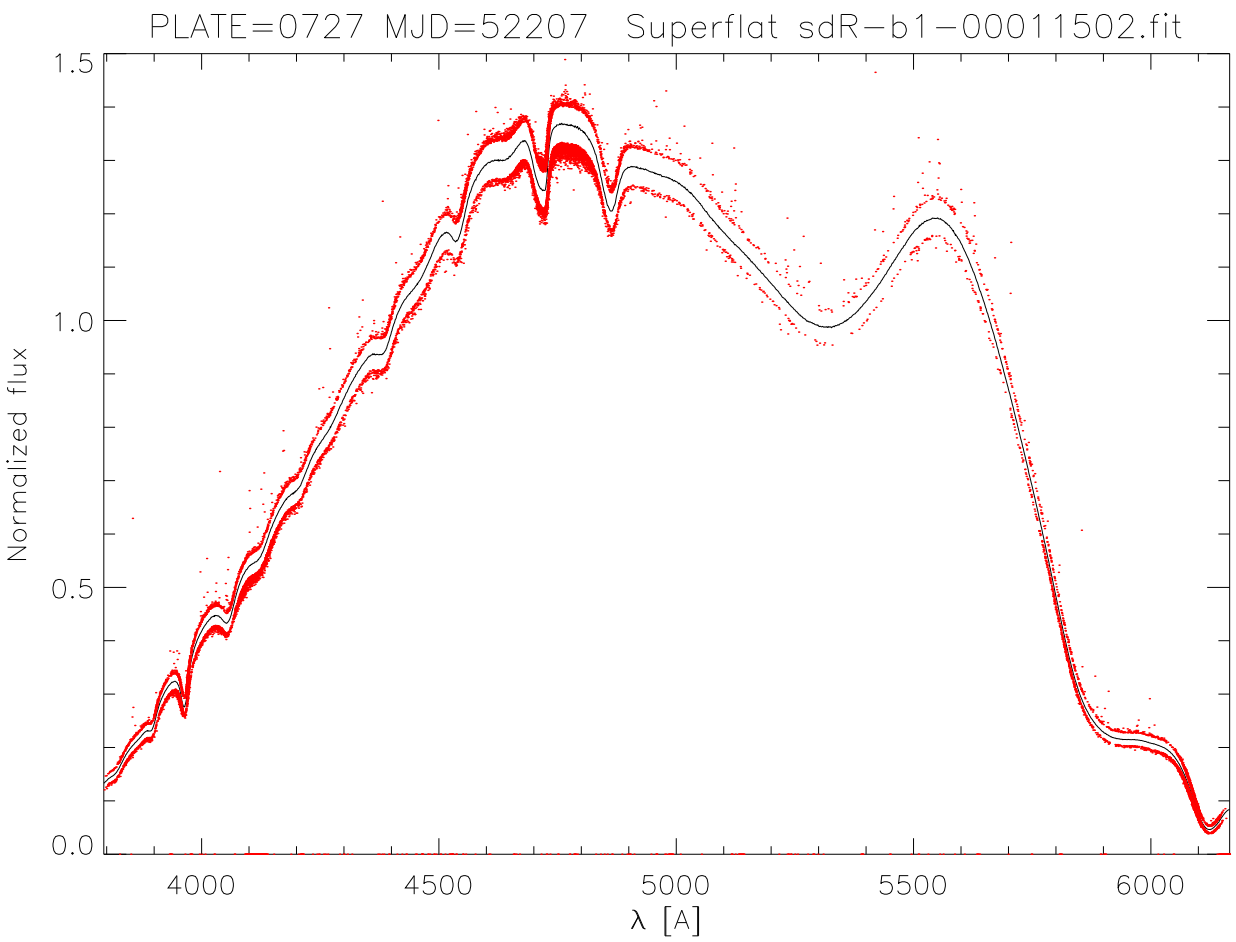

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

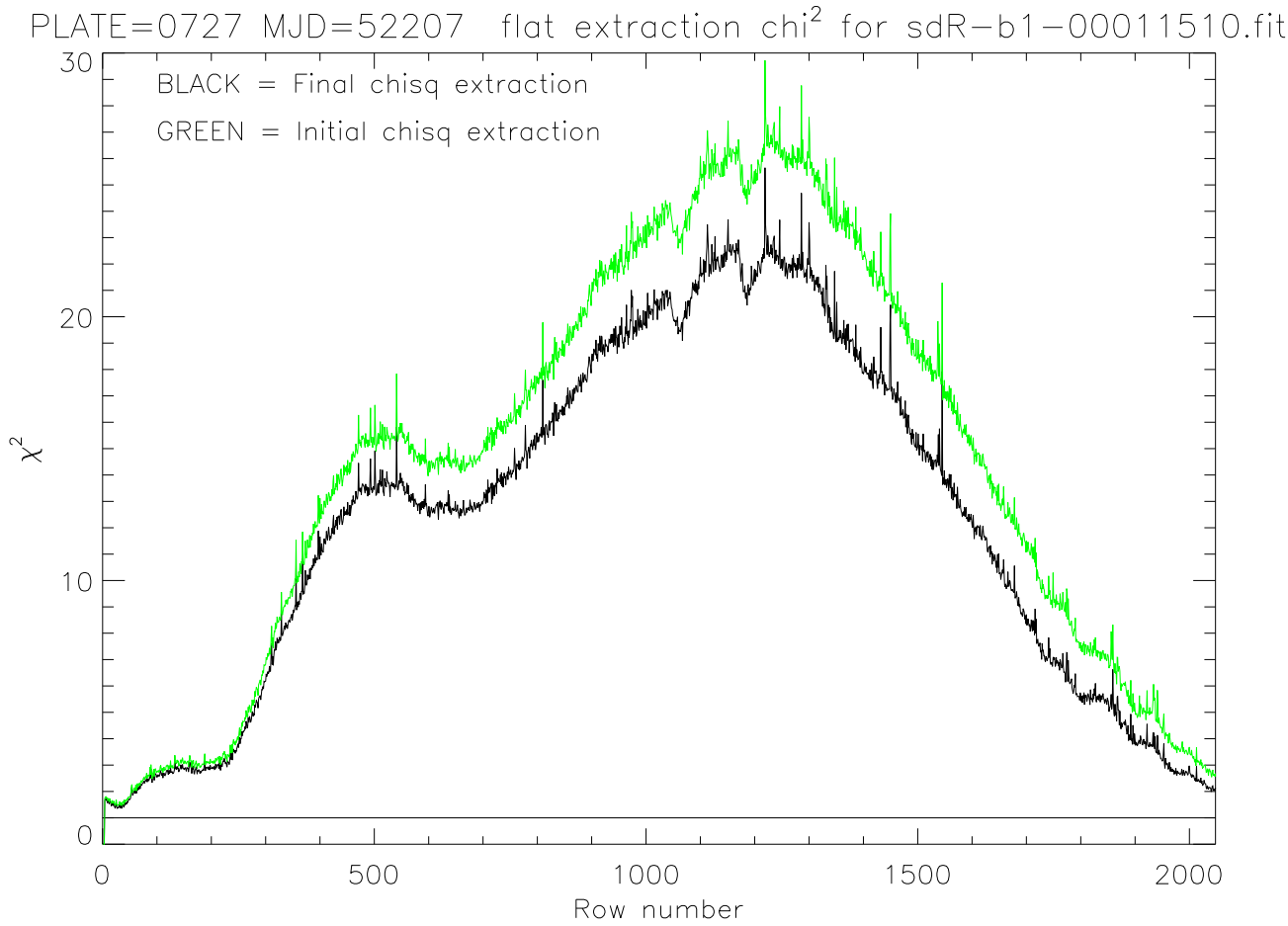

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

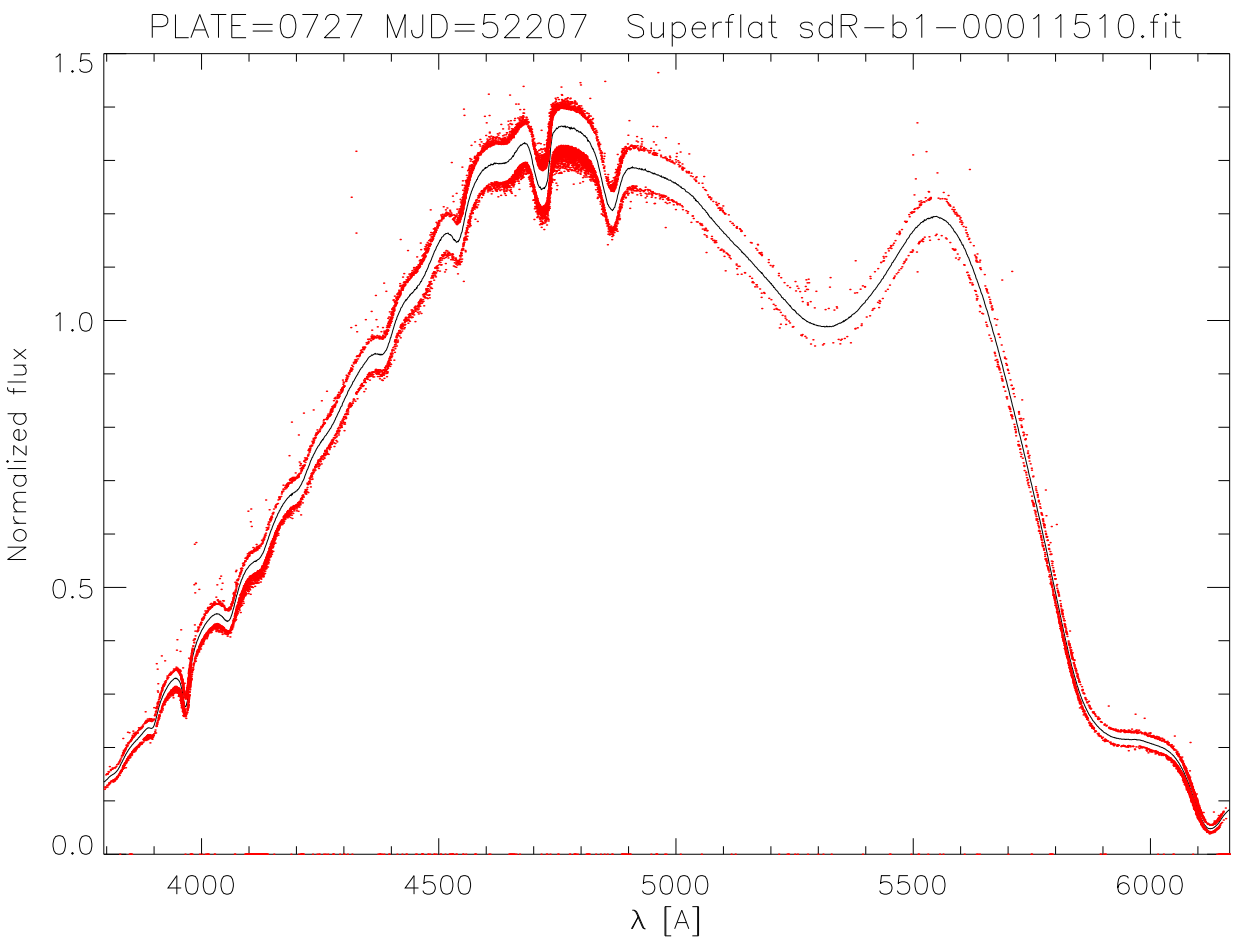

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

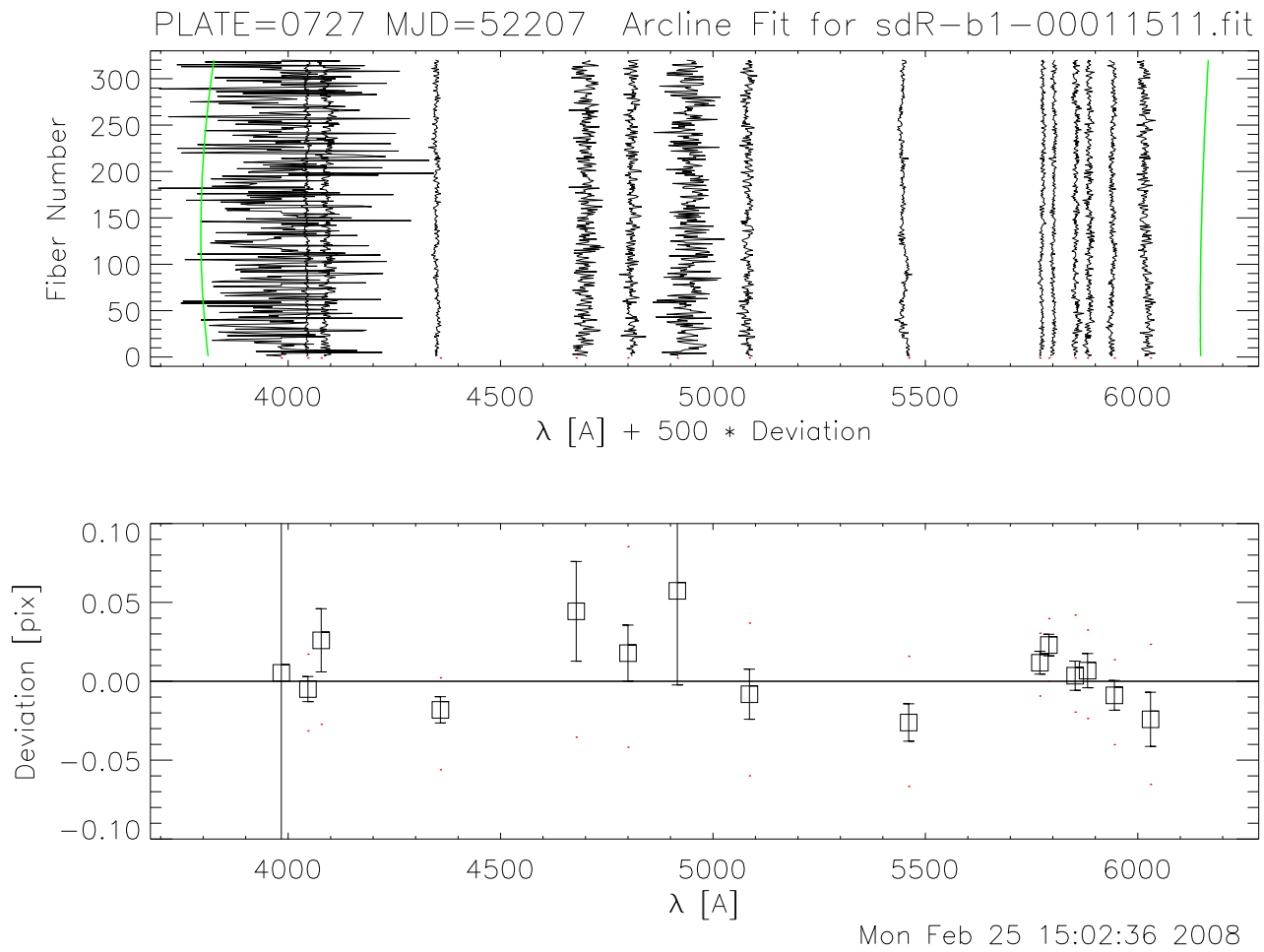

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

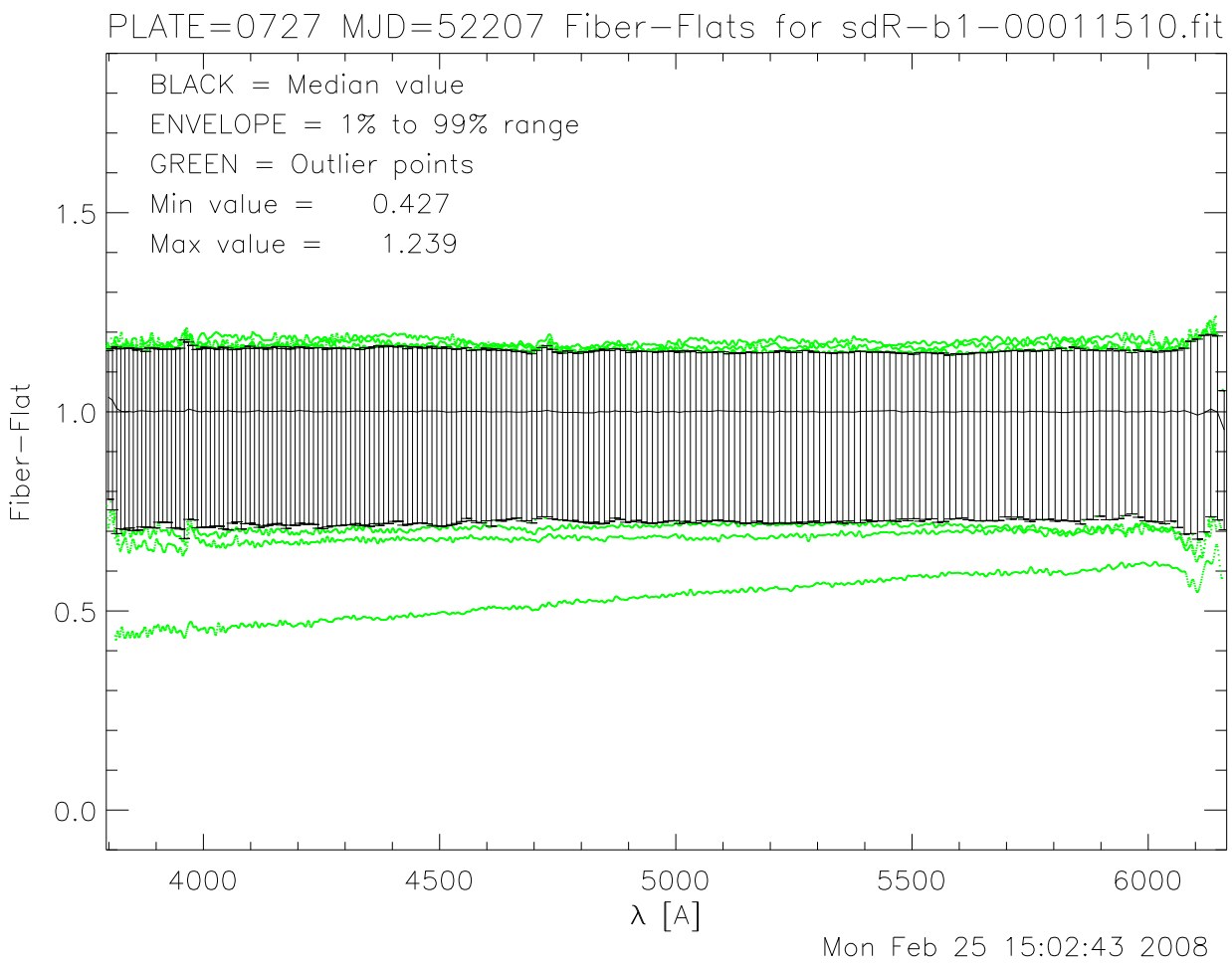

PLATE=0727 MJD=52207 flat extraction chi^2 for sdR−b1−00011502.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
25
0
500
1000
1500
2000

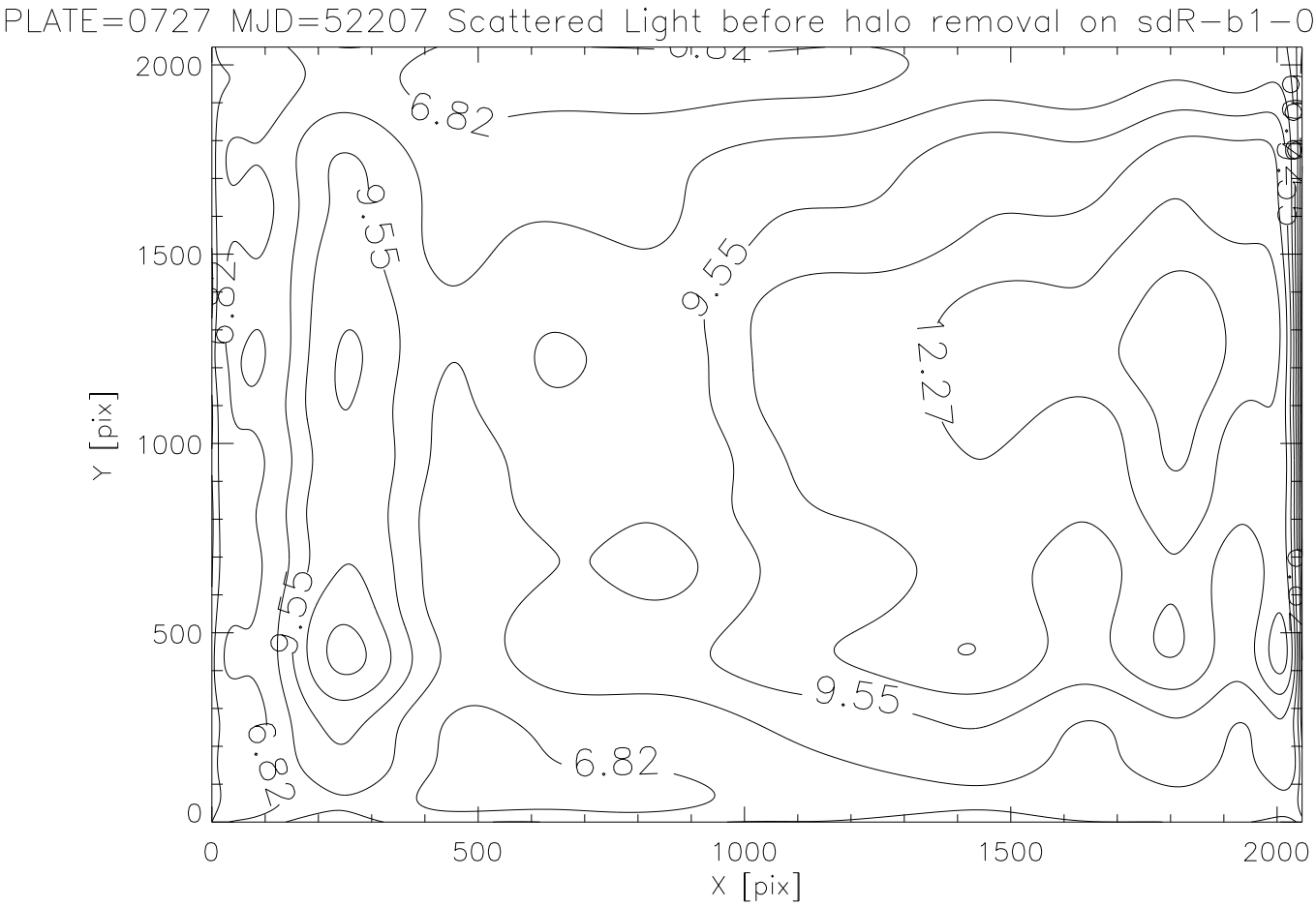

PLATE=0727 MJD=52207 Superflat sdR-b1-00011502.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

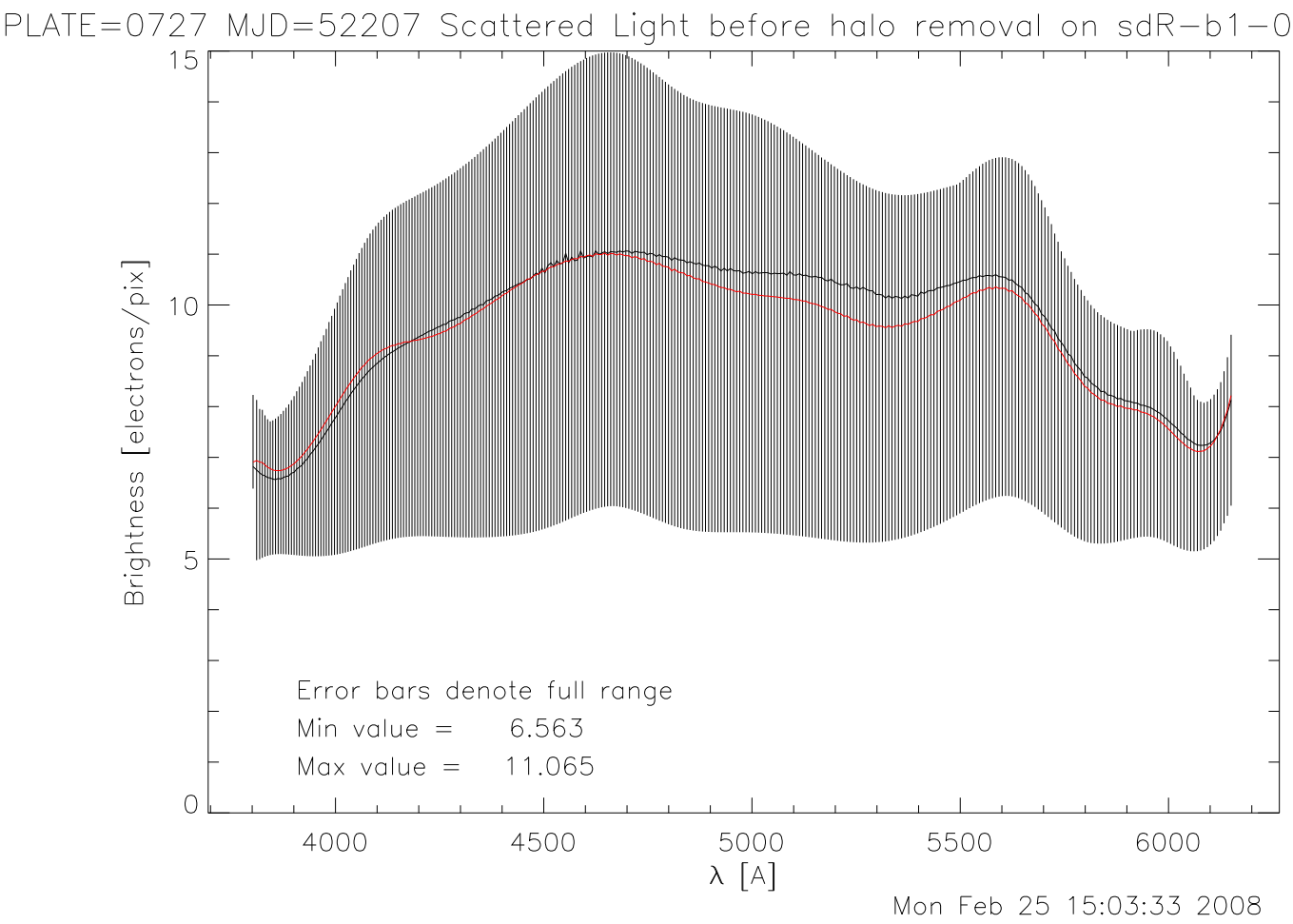

PLATE=0727 MJD=52207 flat extraction chi^2 for sdR−b1−00011510.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
30
20
10
0
0
500
1000
1500
2000
Row number

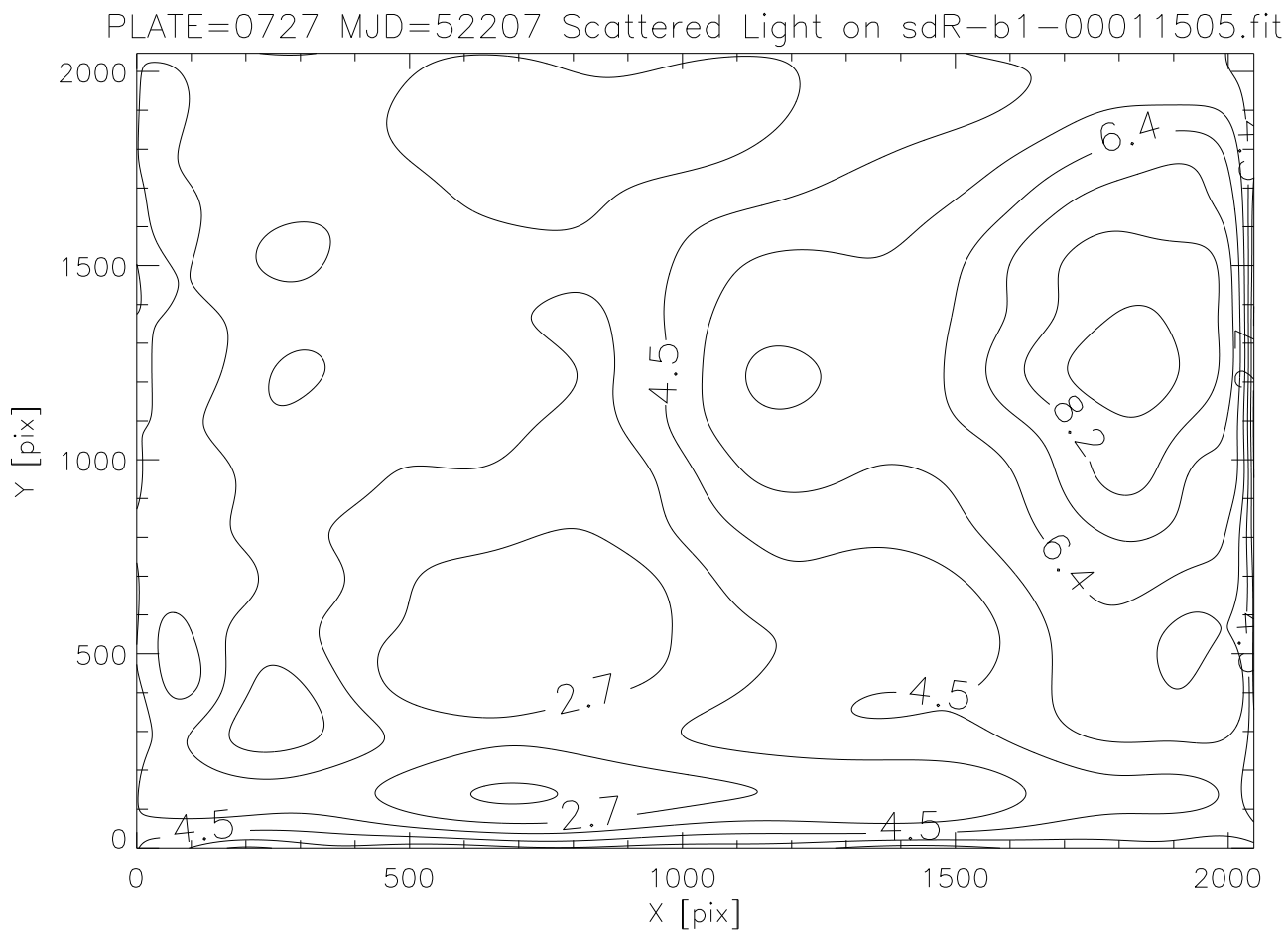

PLATE=0727 MJD=52207 Superflat sdR-b1-00011510.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

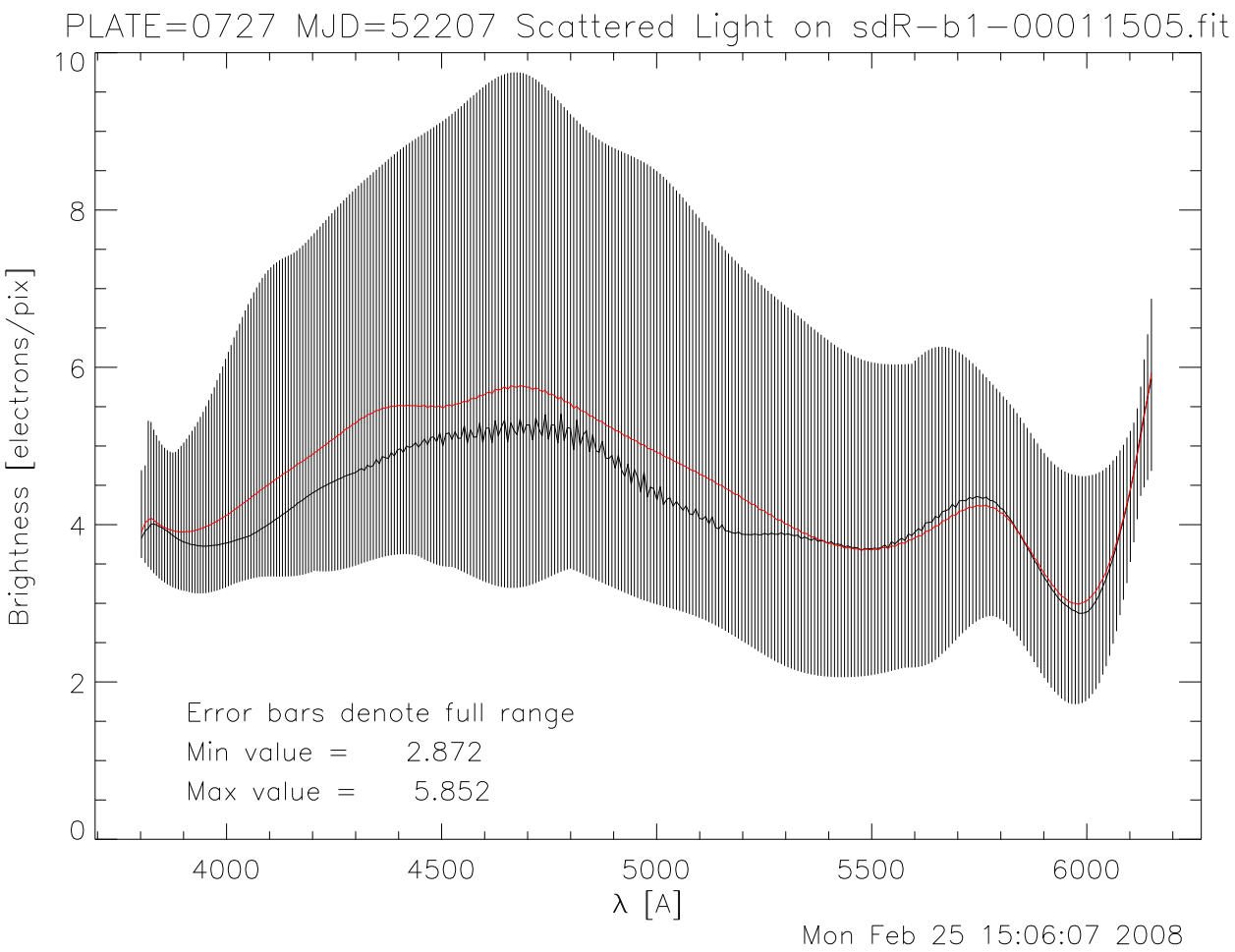

PLATE=0727 MJD=52207 Arcline Fit for sdR-b1-00011511.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:02:36 2008

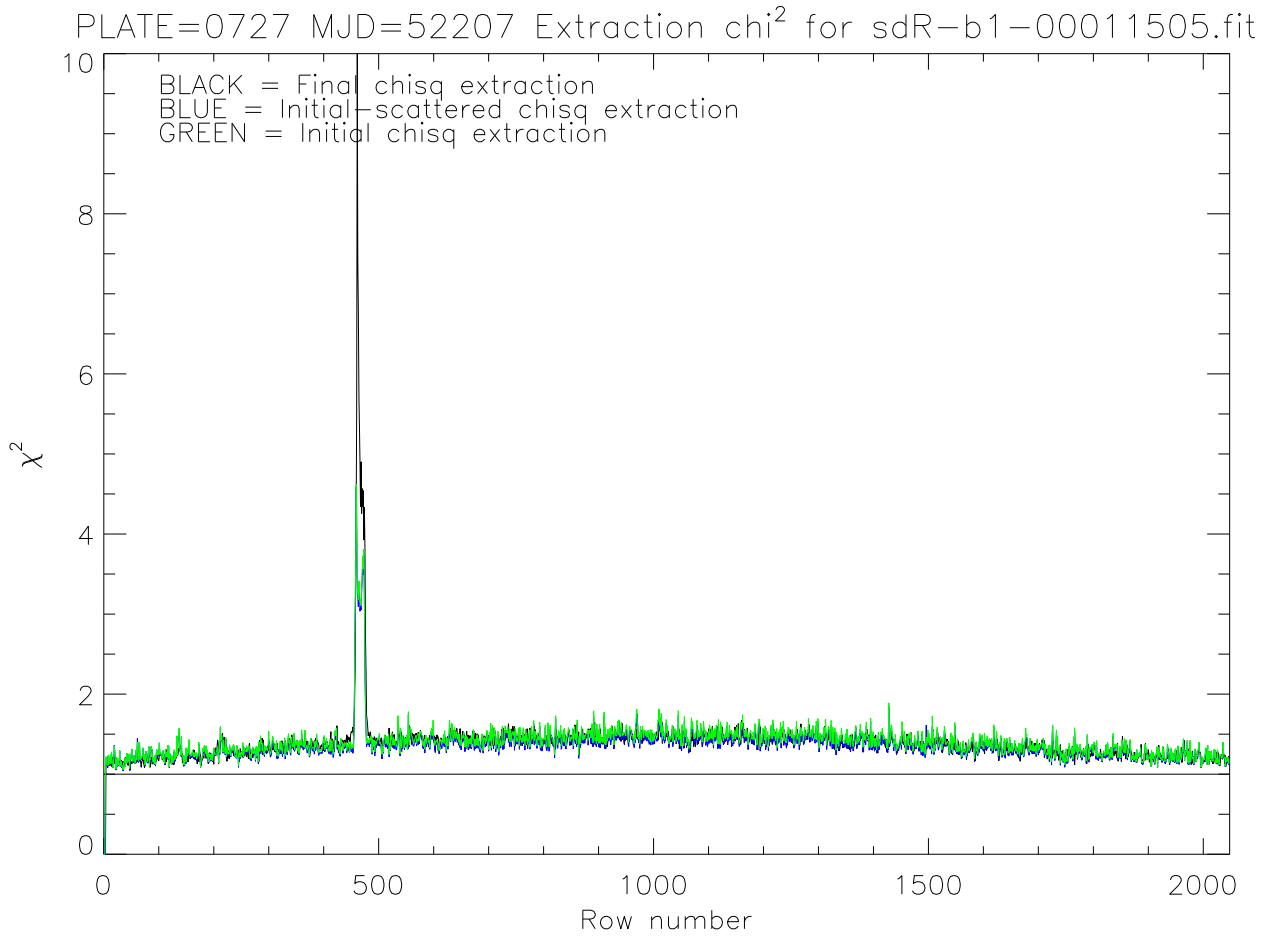

PLATE=0727 MJD=52207 Fiber−Flats for sdR−b1−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.427
Max value = 1.239
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:02:43 2008

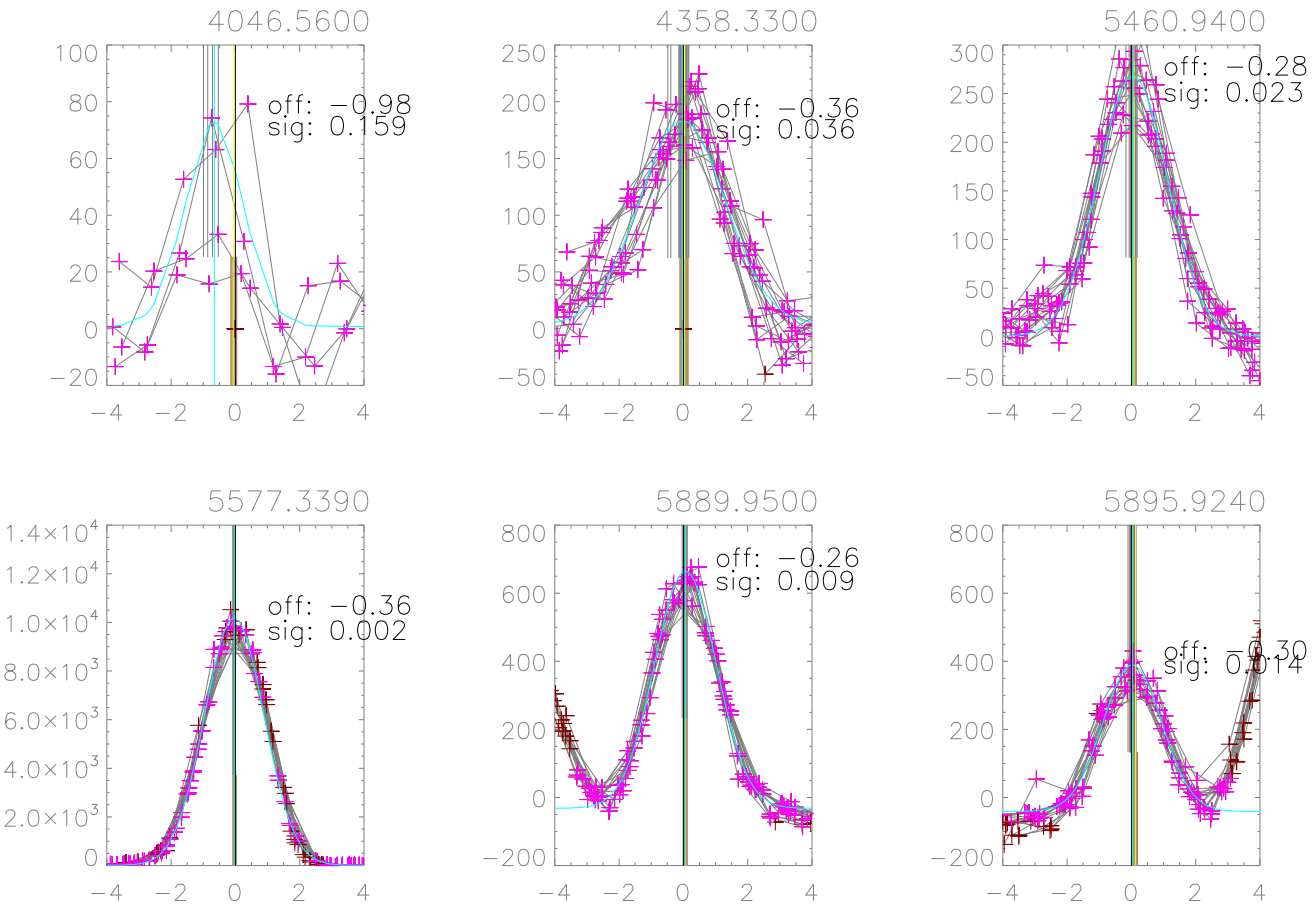

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR−b1−00011505.f
6.82
9.55
12.27
0
Y [pix]
X [pix]
0
500
1000
1500
2000

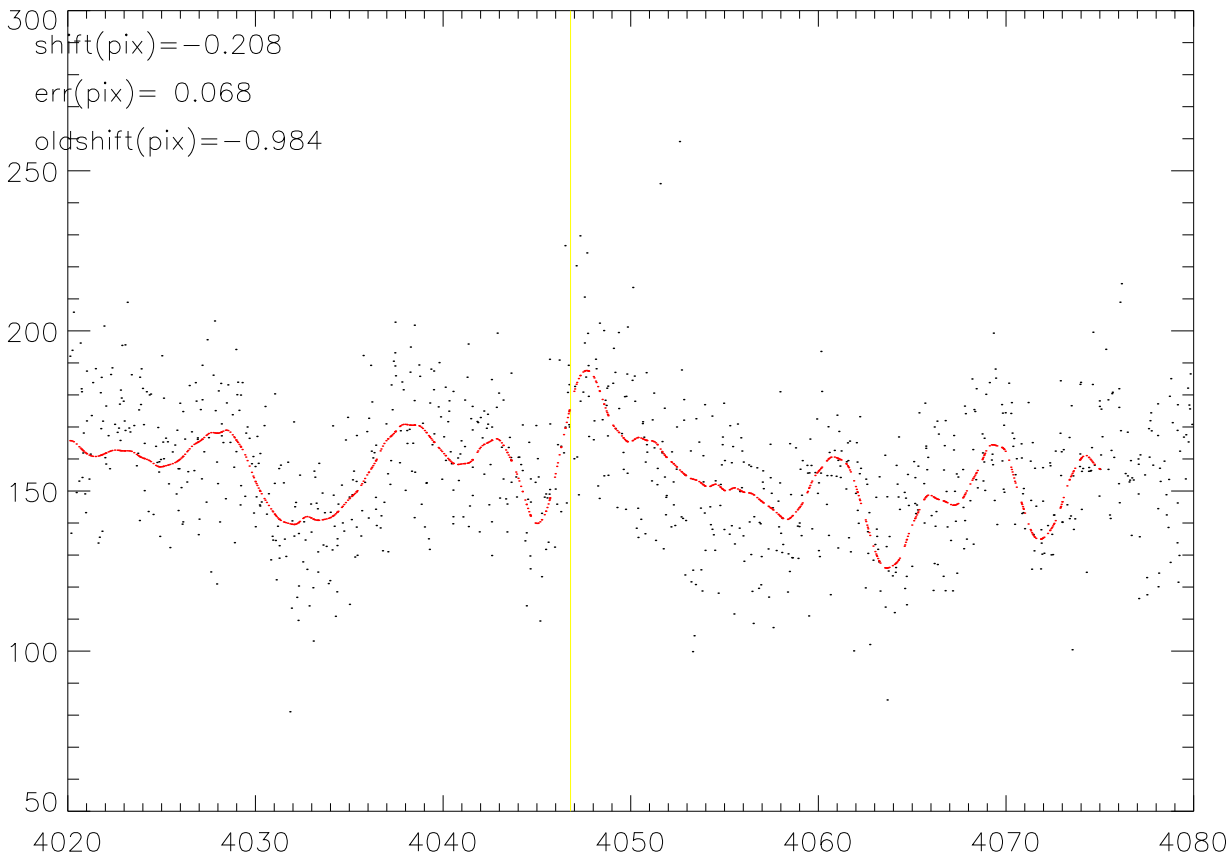

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-b1-00011505.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 6.563
Max value = 11.065
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:03:33 2008

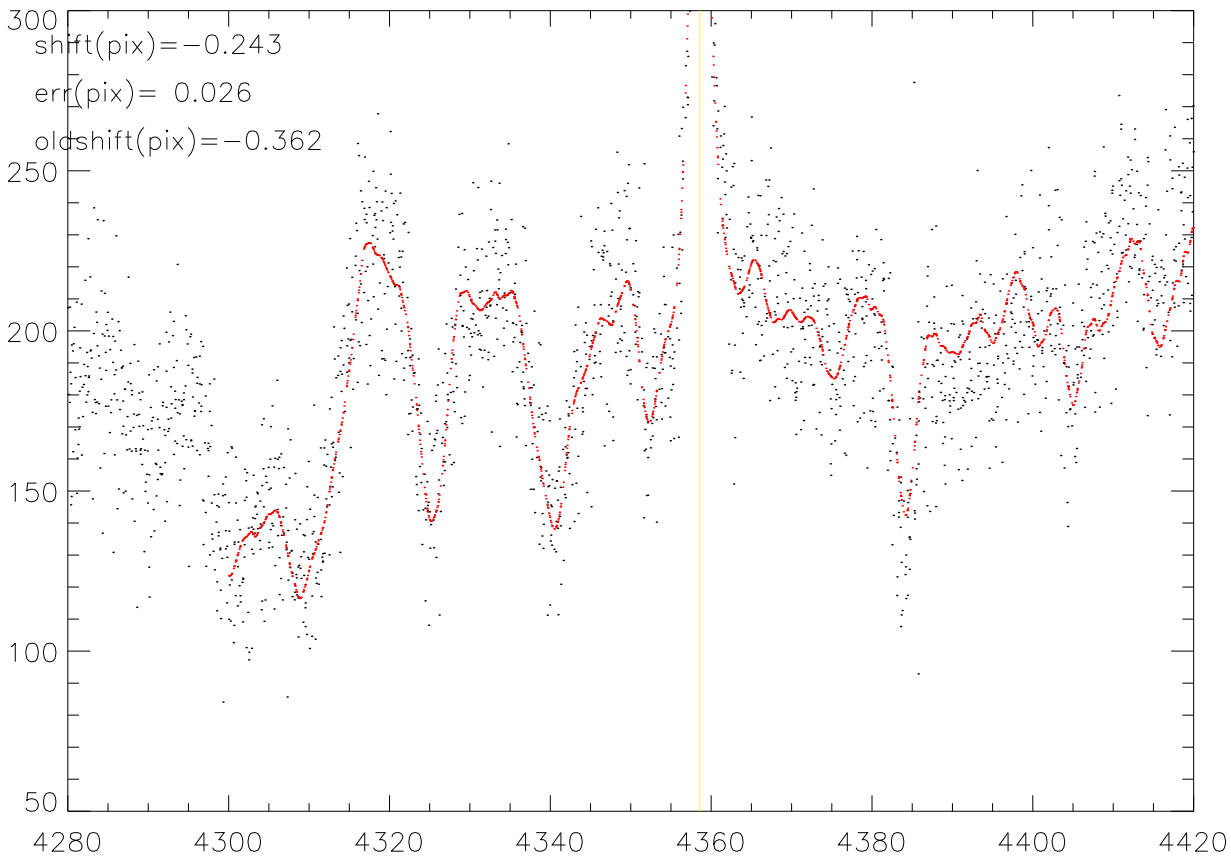

PLATE=0727 MJD=52207 Scattered Light on sdR-b1-00011505.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
2.7
4.5
6.4
8.2

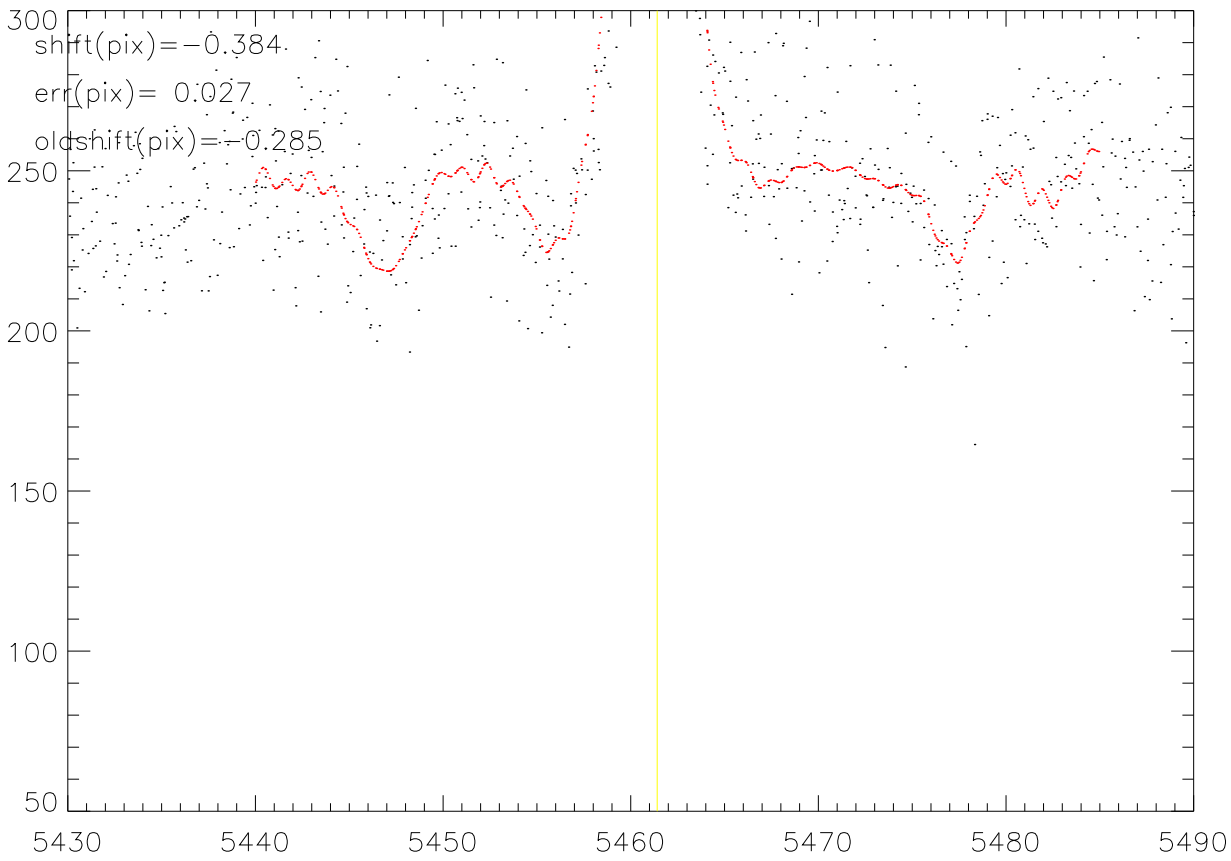

PLATE=0727 MJD=52207 Scattered Light on sdR-b1-00011505.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 2.872
Max value = 5.852
Mon Feb 25 15:06:07 2008

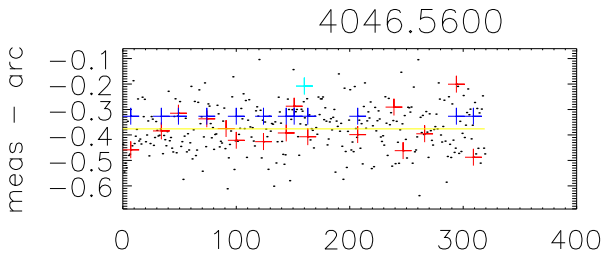

PLATE=0727 MJD=52207 Extraction chi^2 for sdR-b1-00011505.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

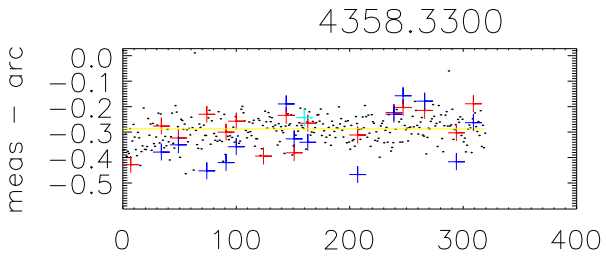

4046.5600
off: −0.98
sig: 0.159
4358.3300
off: −0.36
sig: 0.036
5460.9400
off: −0.28
sig: 0.023
5577.3390
off: −0.36
sig: 0.002
5889.9500
off: −0.26
sig: 0.009
5895.9240
off: −0.30
sig: 0.014

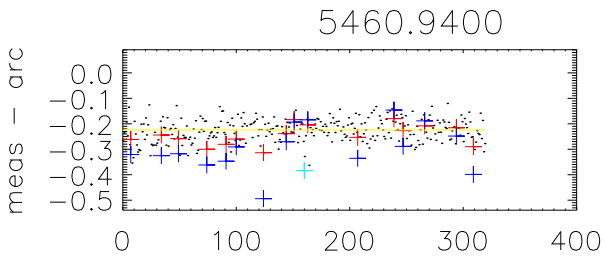

shift(pix)=−0.208
err(pix)= 0.068
oldshift(pix)=−0.984
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

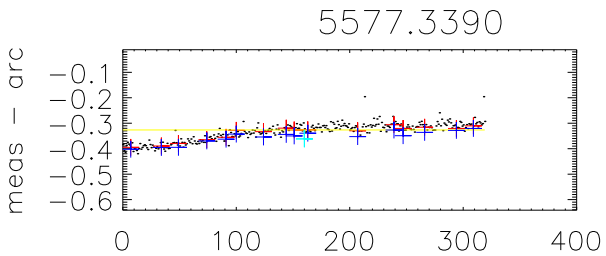

shift(pix)=−0.243
err(pix)= 0.026
oldshift(pix)=−0.362
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

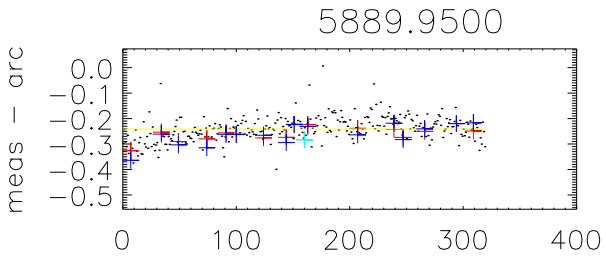

shift(pix)=−0.384
err(pix)= 0.027
oldshift(pix)=−0.285
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

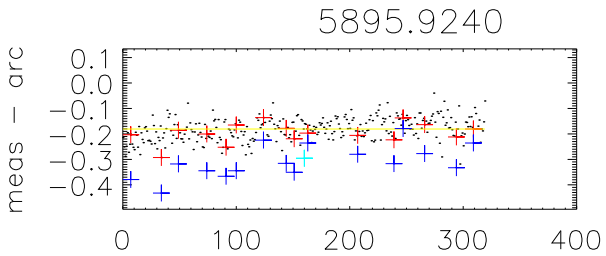

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

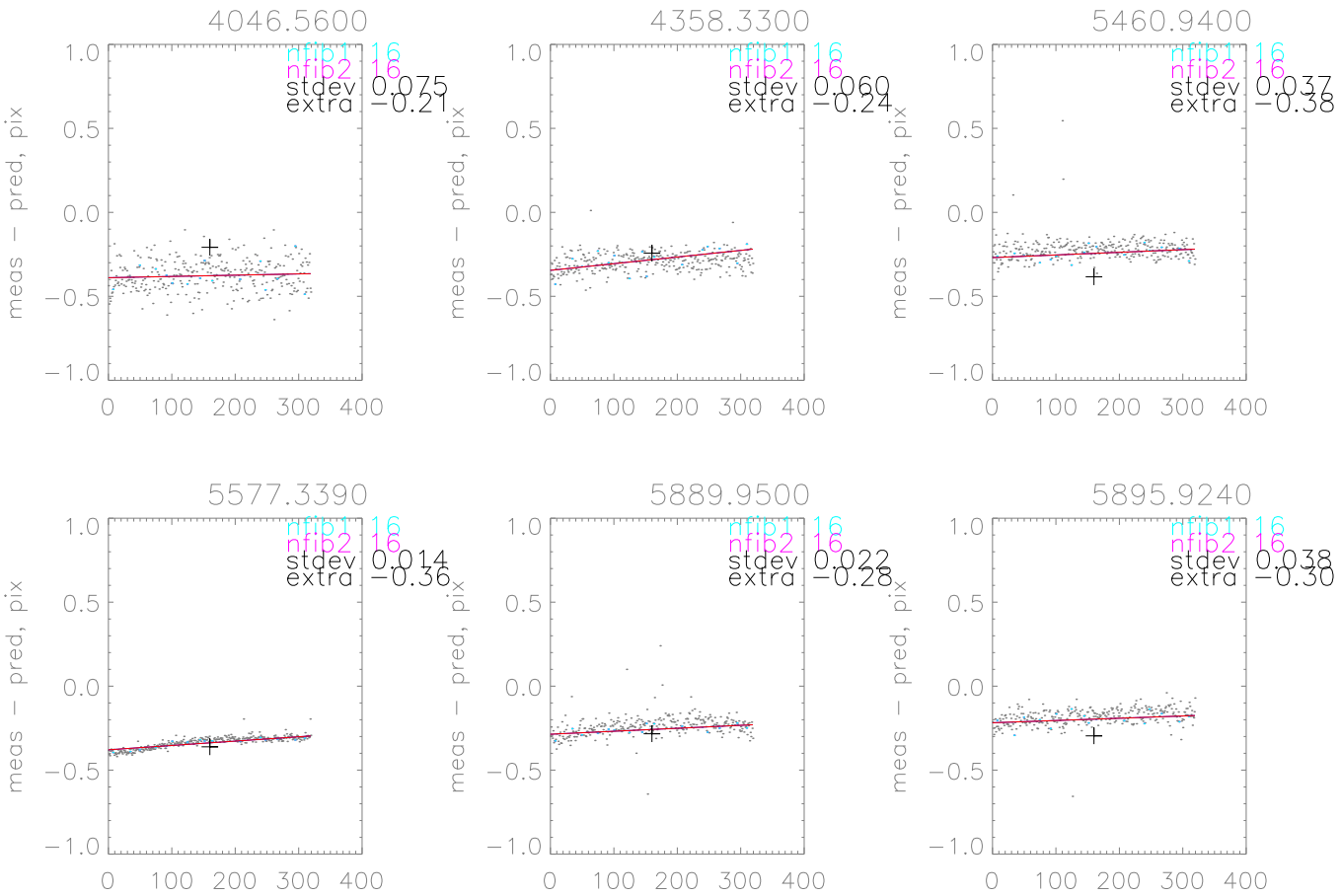

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

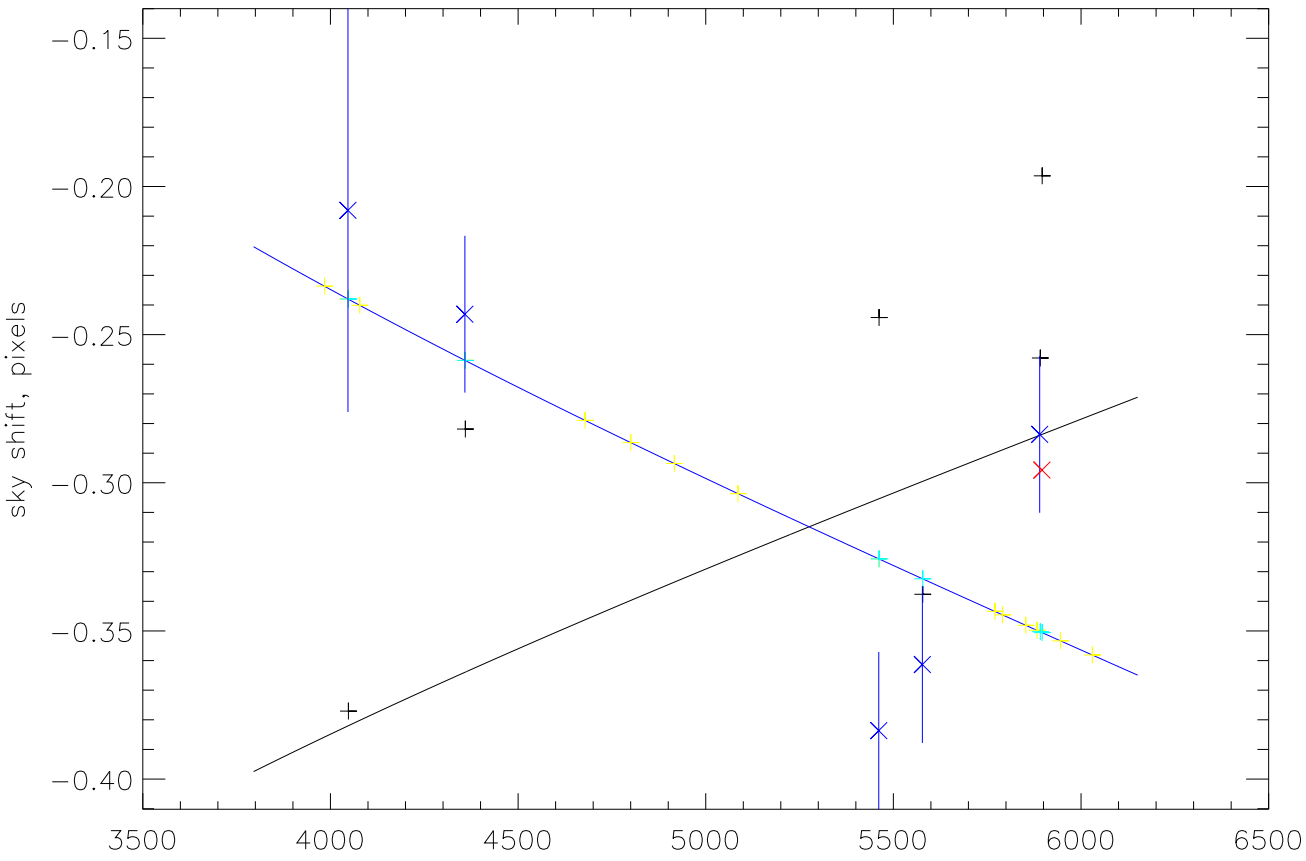

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

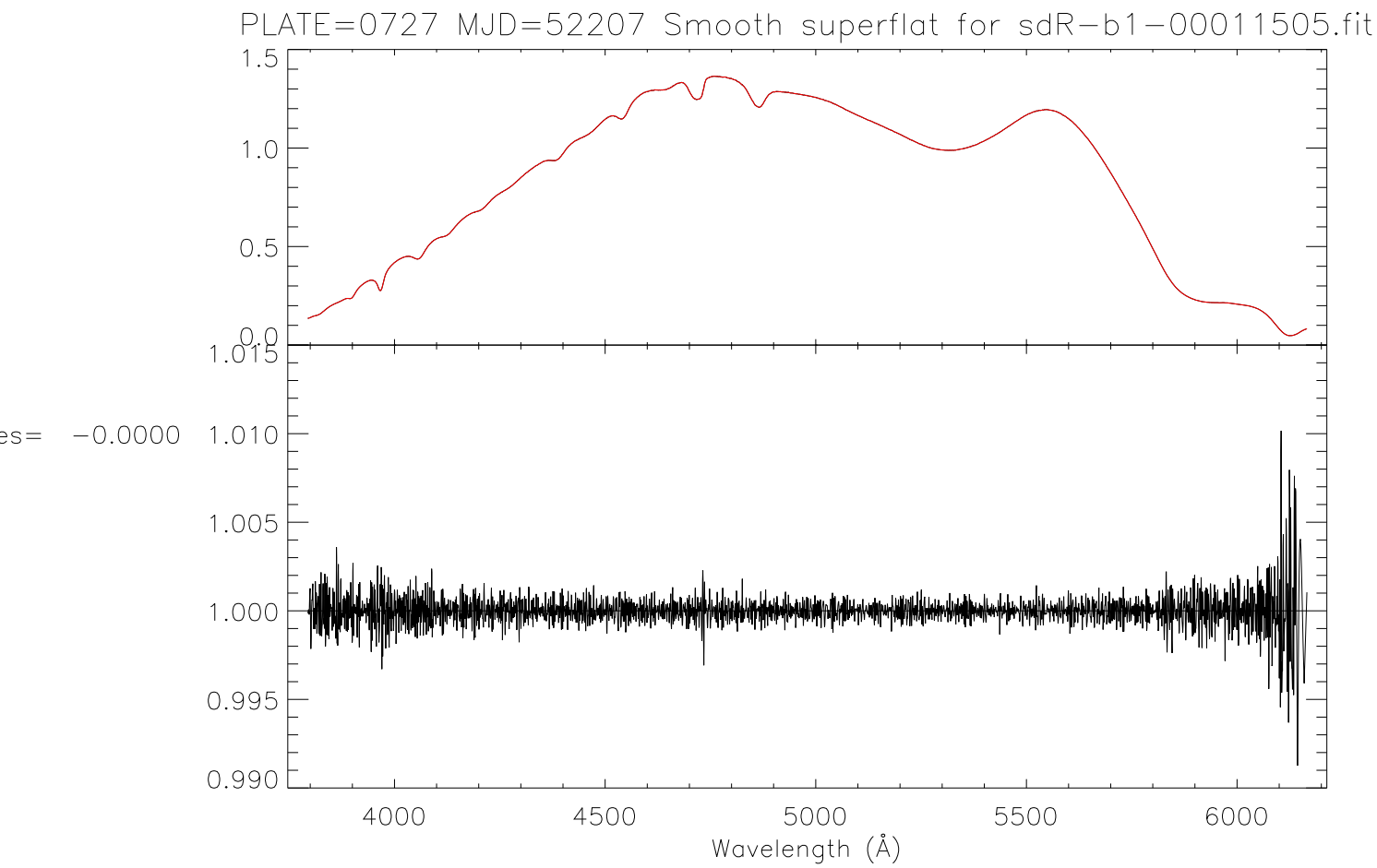

5577.3390
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

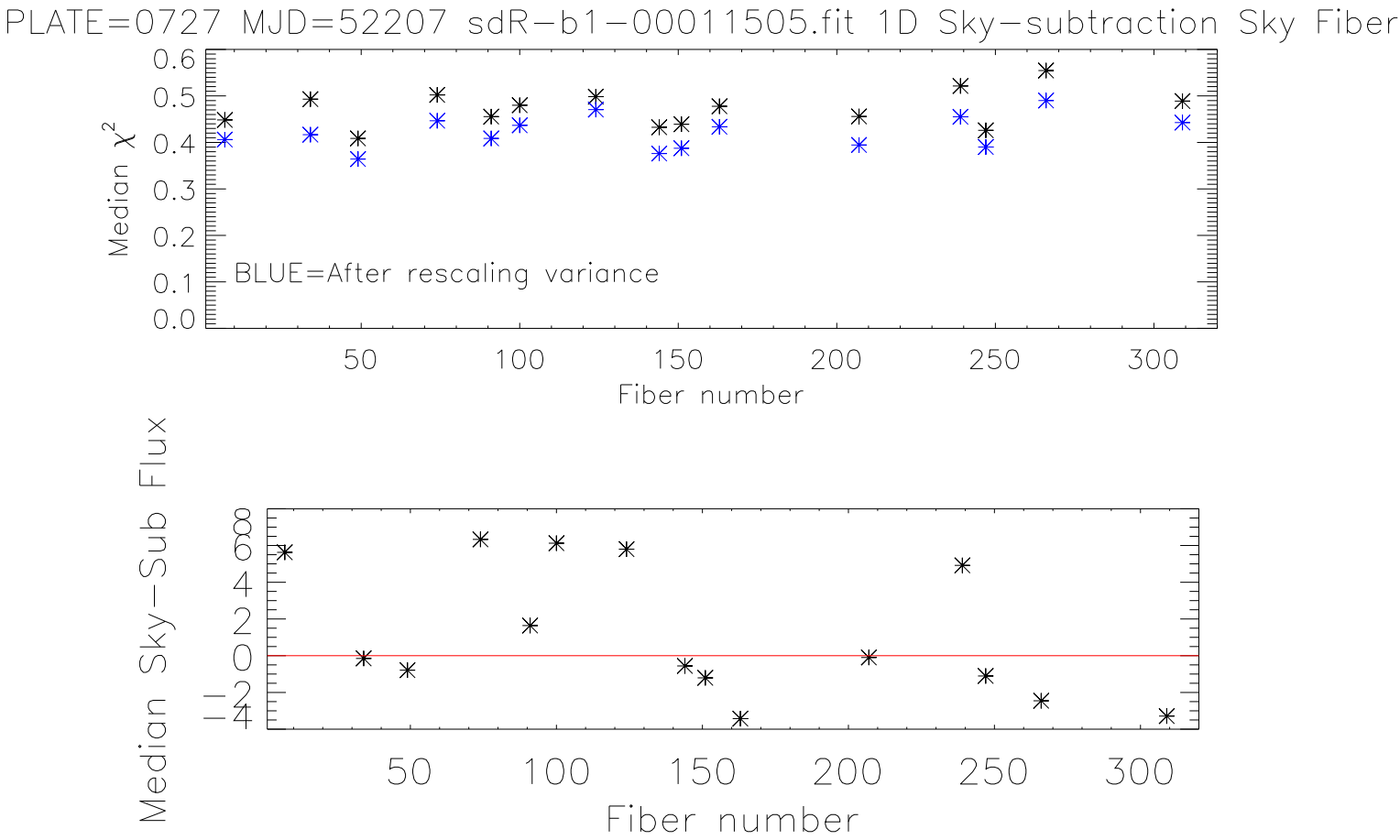

5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

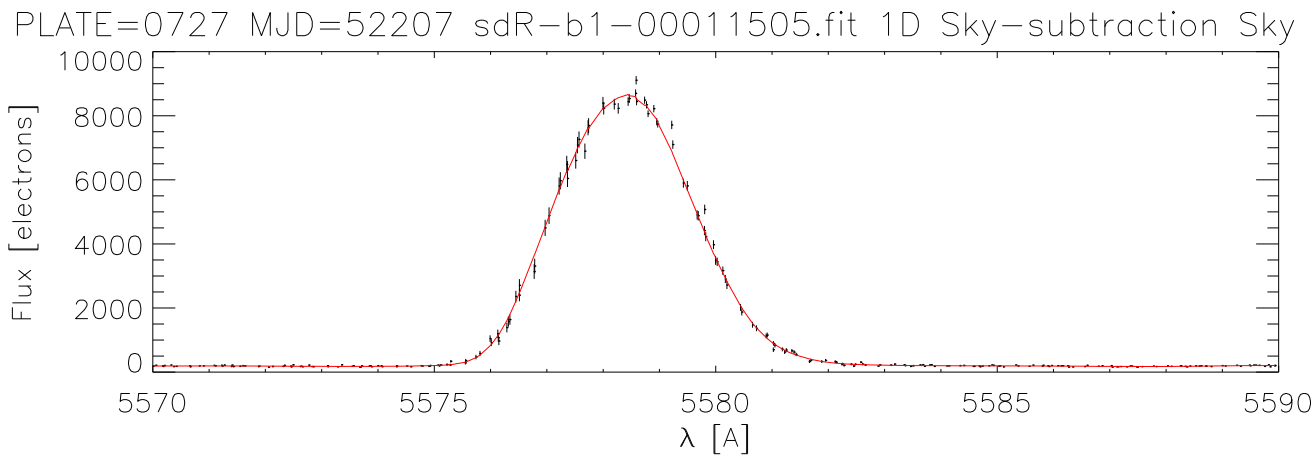

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

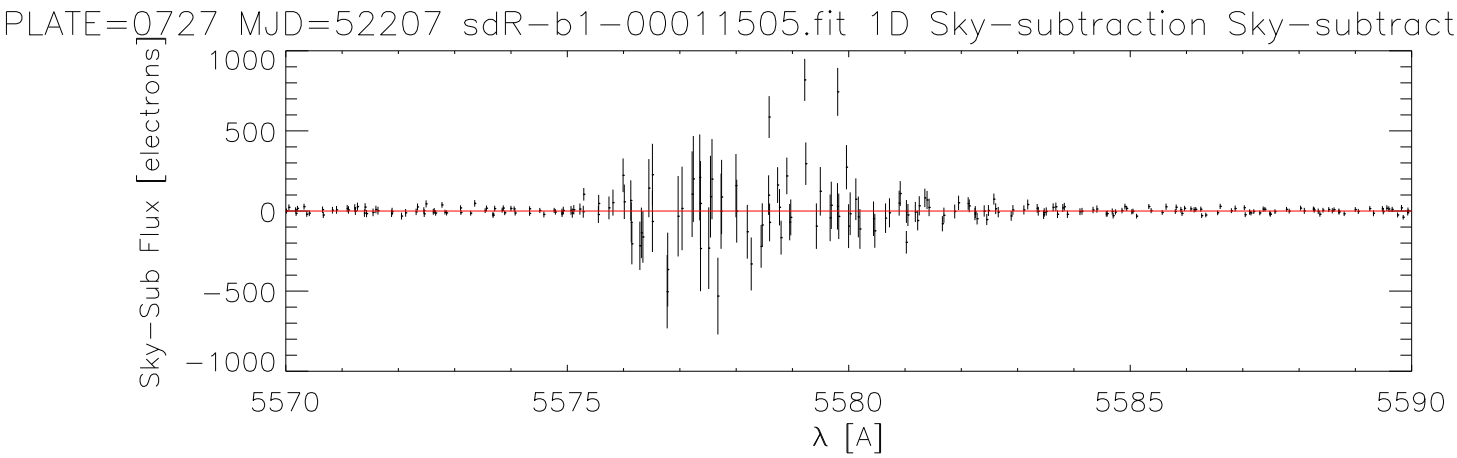

4046.5600
nfib1 16
nfib2 16
stdev 0.075
extra −0.21
4358.3300
nfib1 16
nfib2 16
stdev 0.060
extra −0.24
5460.9400
nfib1 16
nfib2 16
stdev 0.037
extra −0.38
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra −0.36
5889.9500
nfib1 16
nfib2 16
stdev 0.022
extra −0.28
5895.9240
nfib1 16
nfib2 16
stdev 0.038
extra −0.30
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

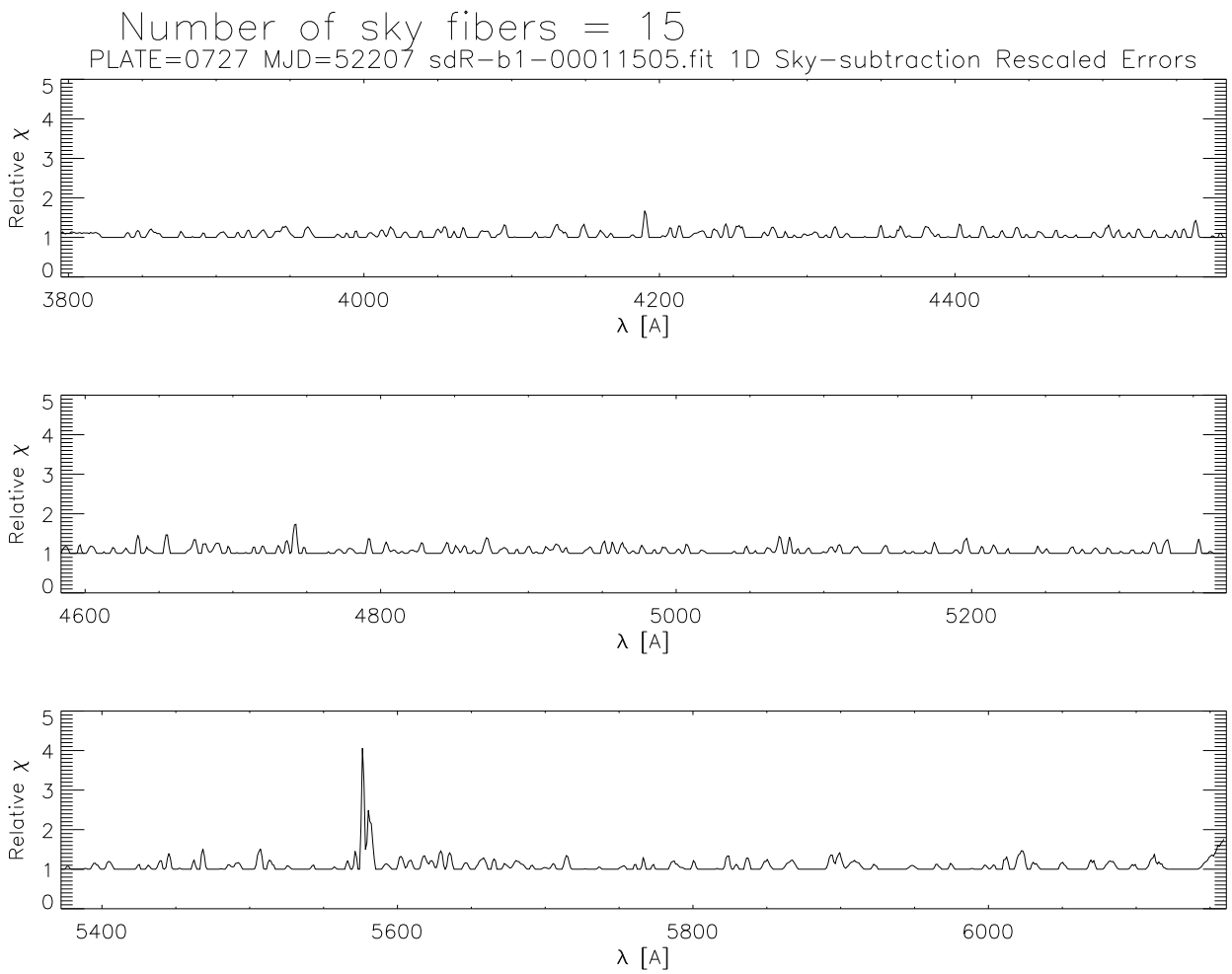

−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

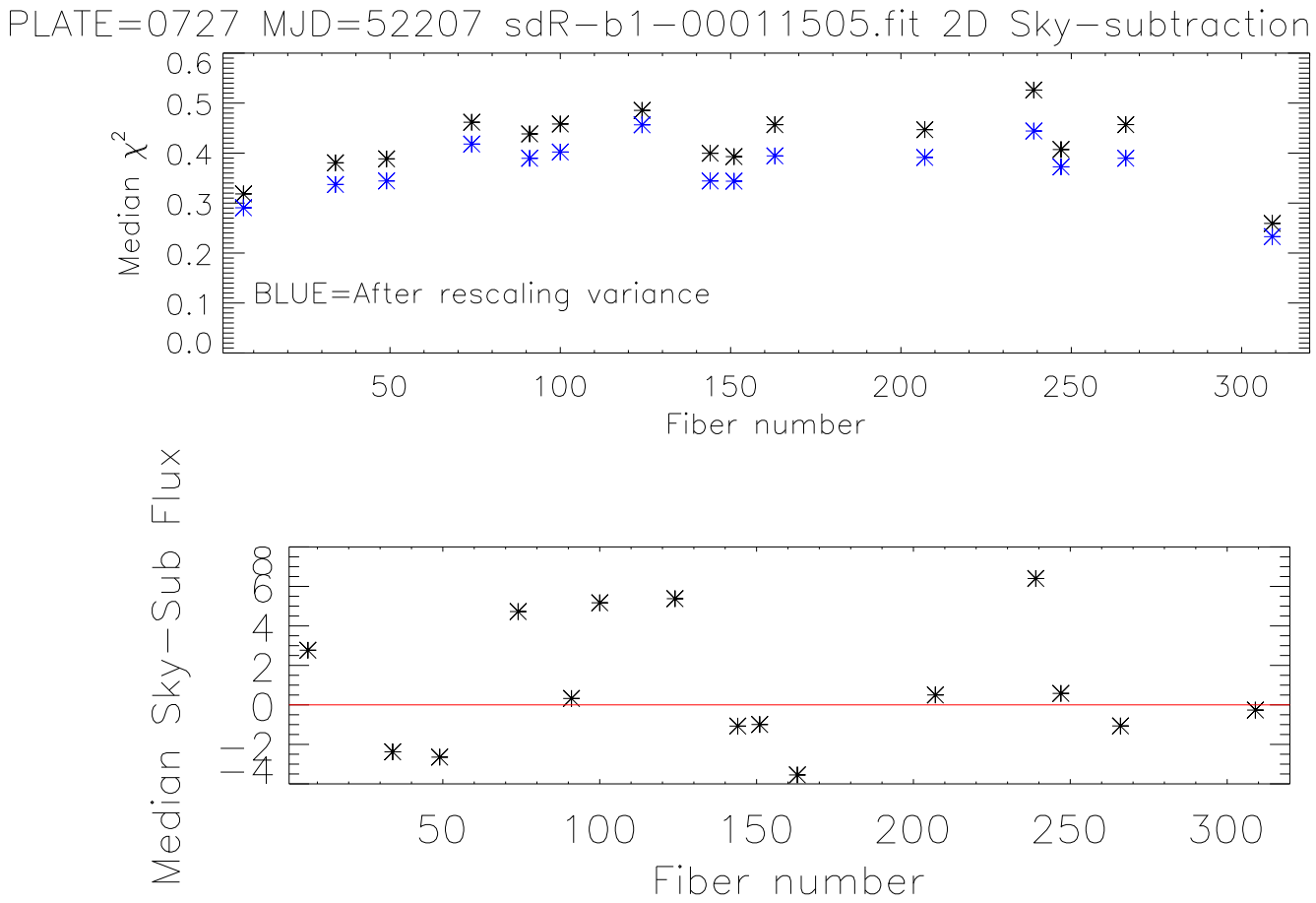

PLATE=0727 MJD=52207 Smooth superflat for sdR-b1-00011505.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

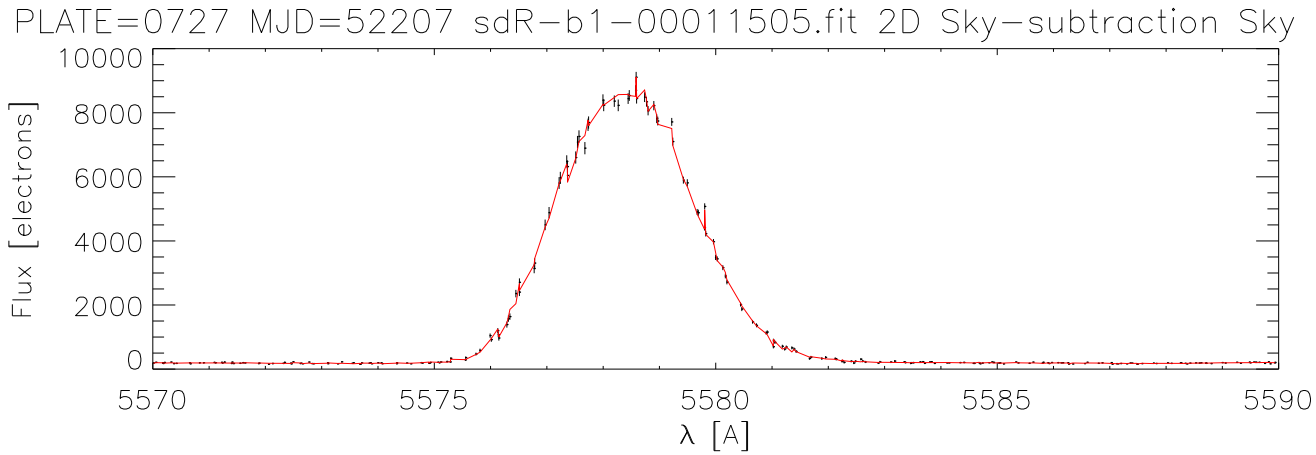

PLATE=0727 MJD=52207 sdR-b1-00011505.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

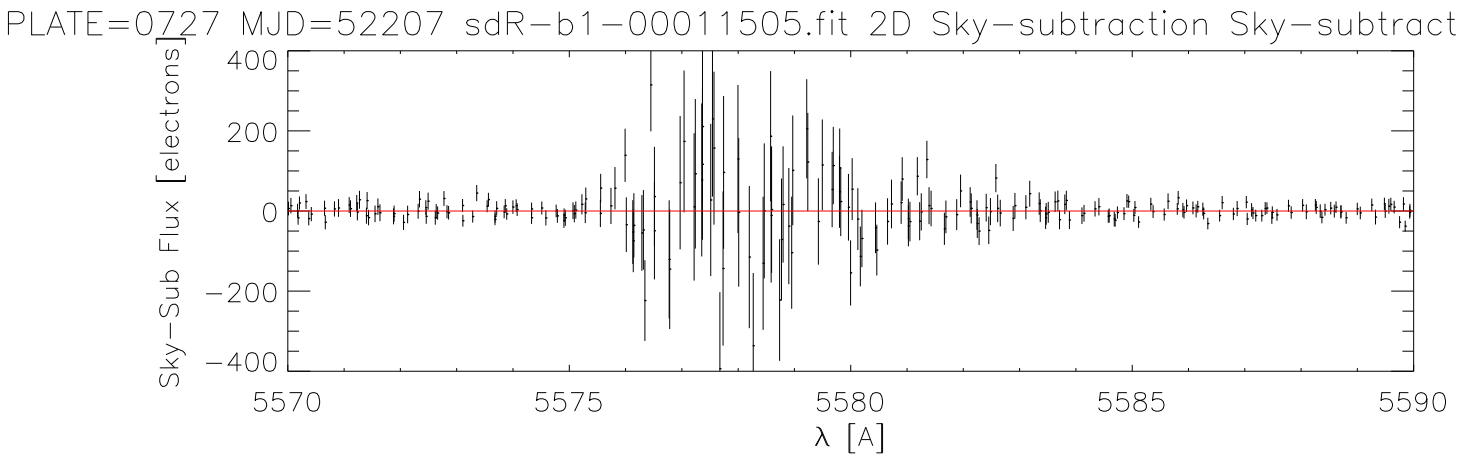

PLATE=0727 MJD=52207 sdR-b1-00011505.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

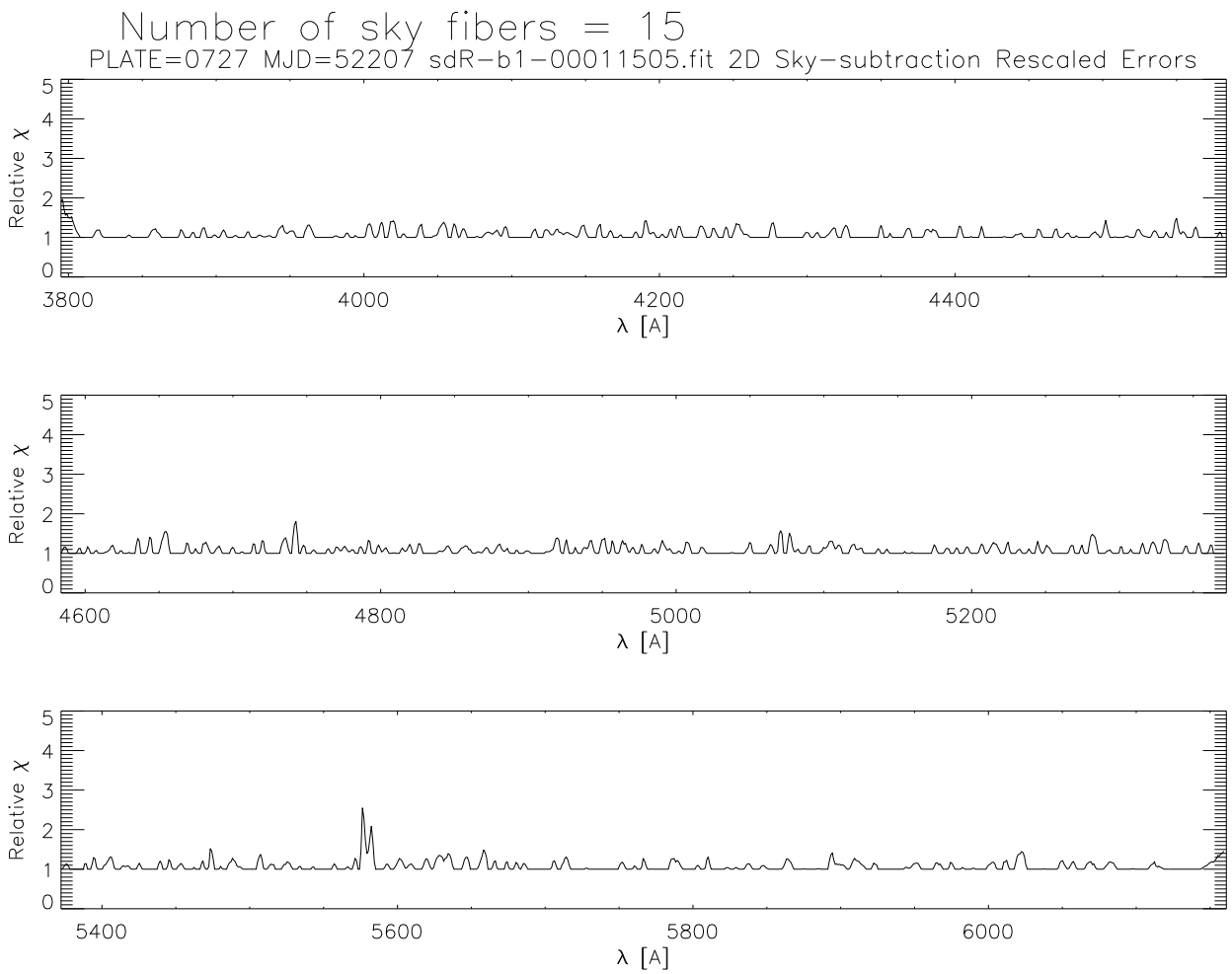

PLATE=0727 MJD=52207 sdR-b1-00011505.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

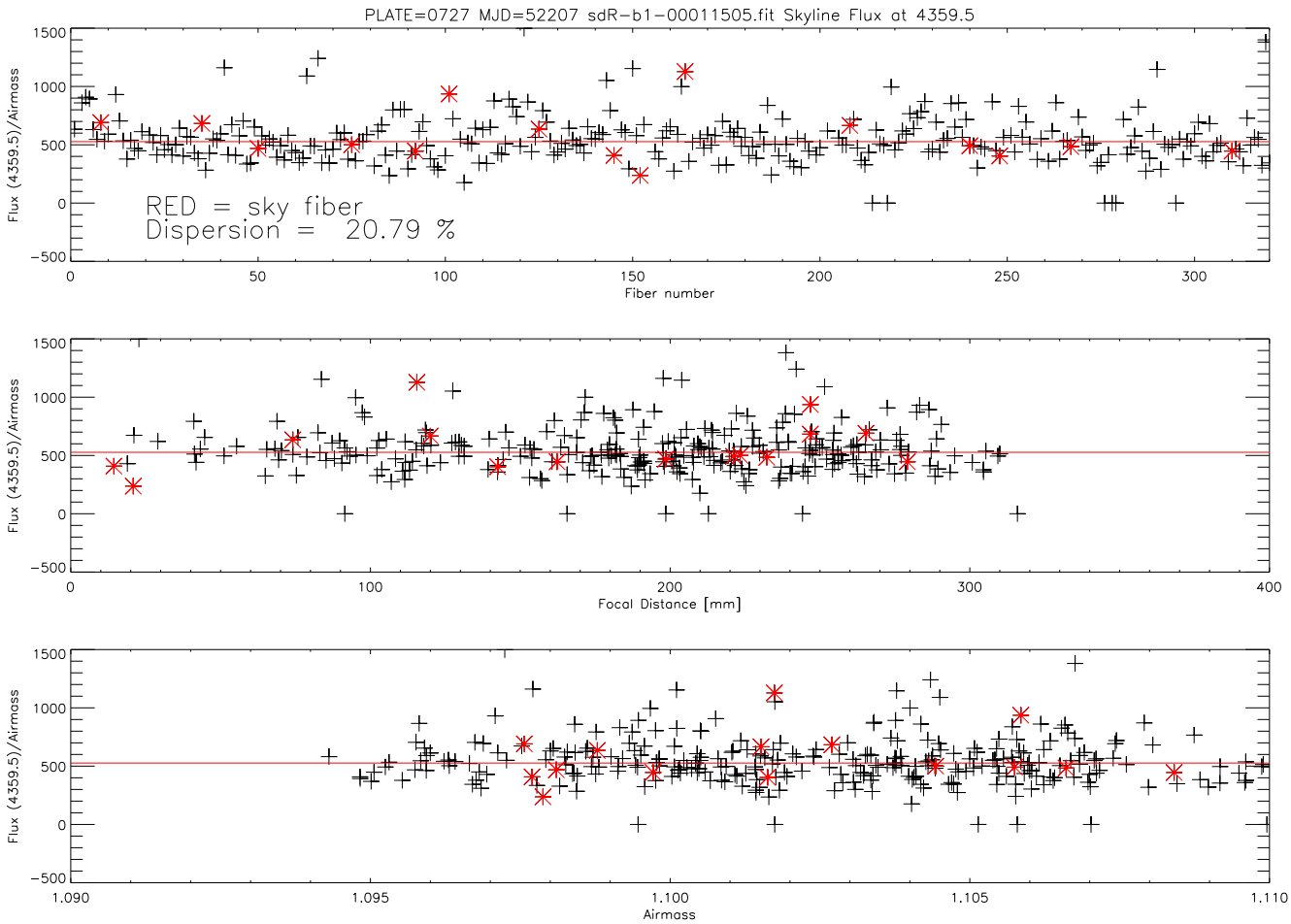

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b1-00011505.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

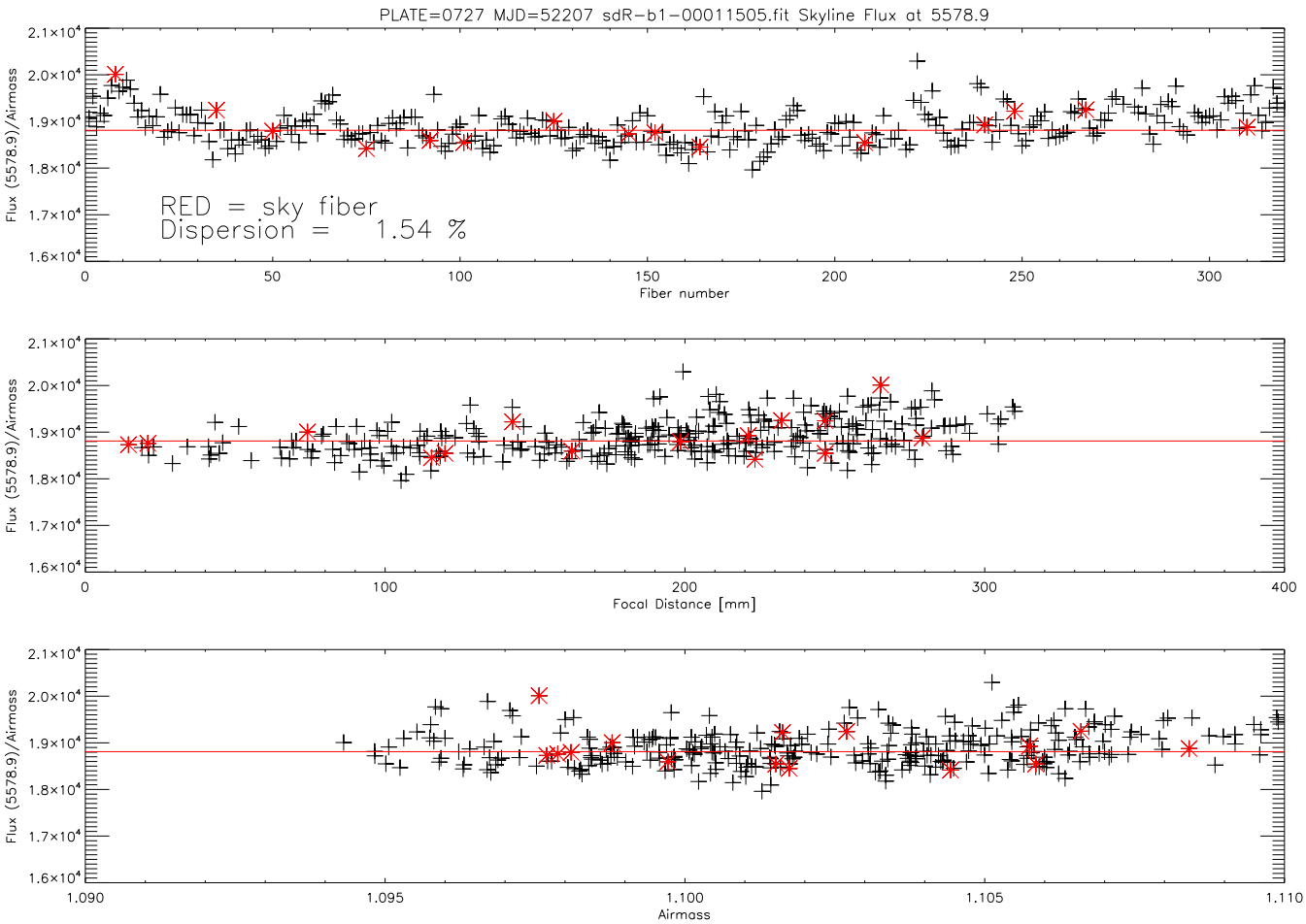

PLATE=0727 MJD=52207 sdR-b1-00011505.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

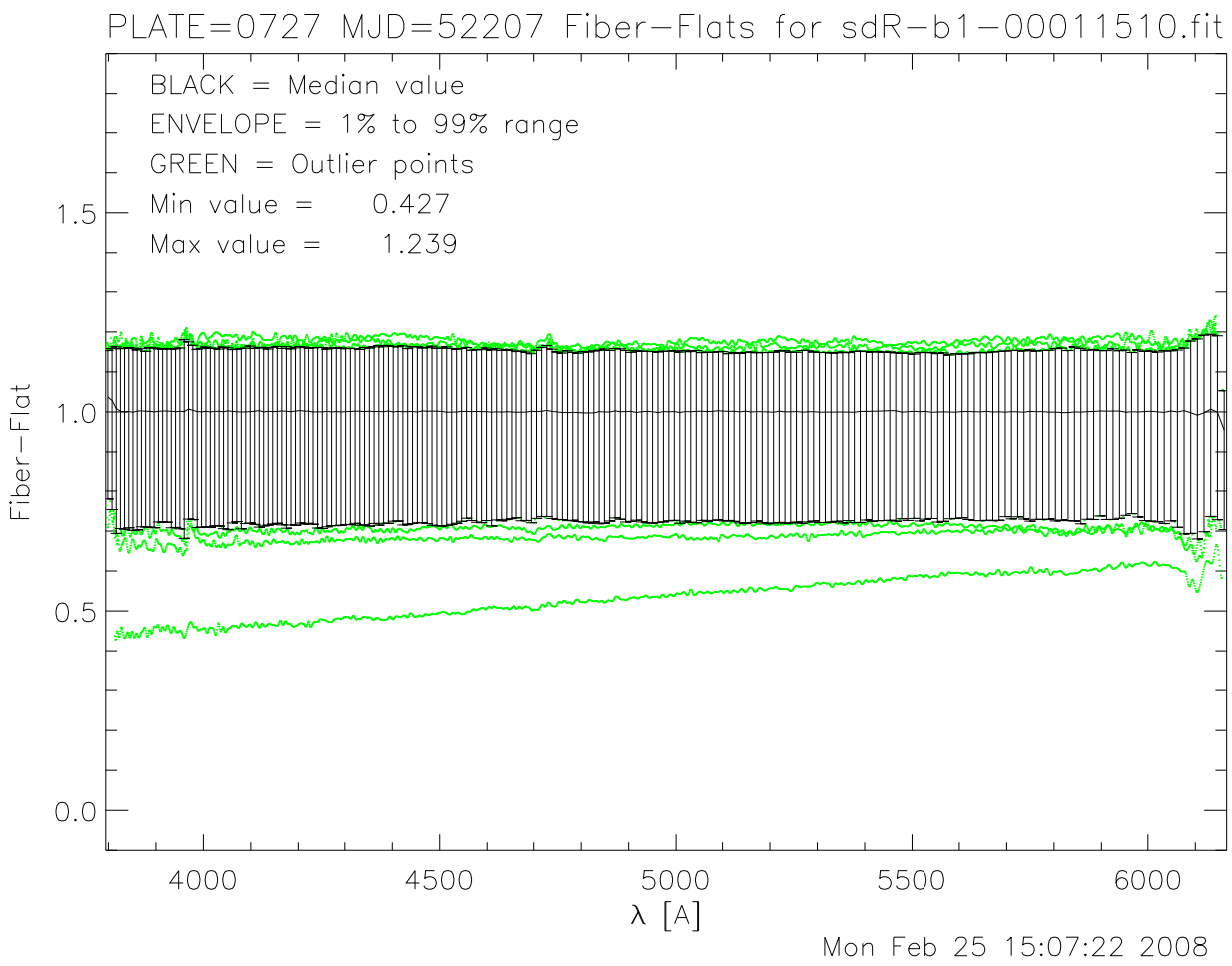

PLATE=0727 MJD=52207 sdR-b1-00011505.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

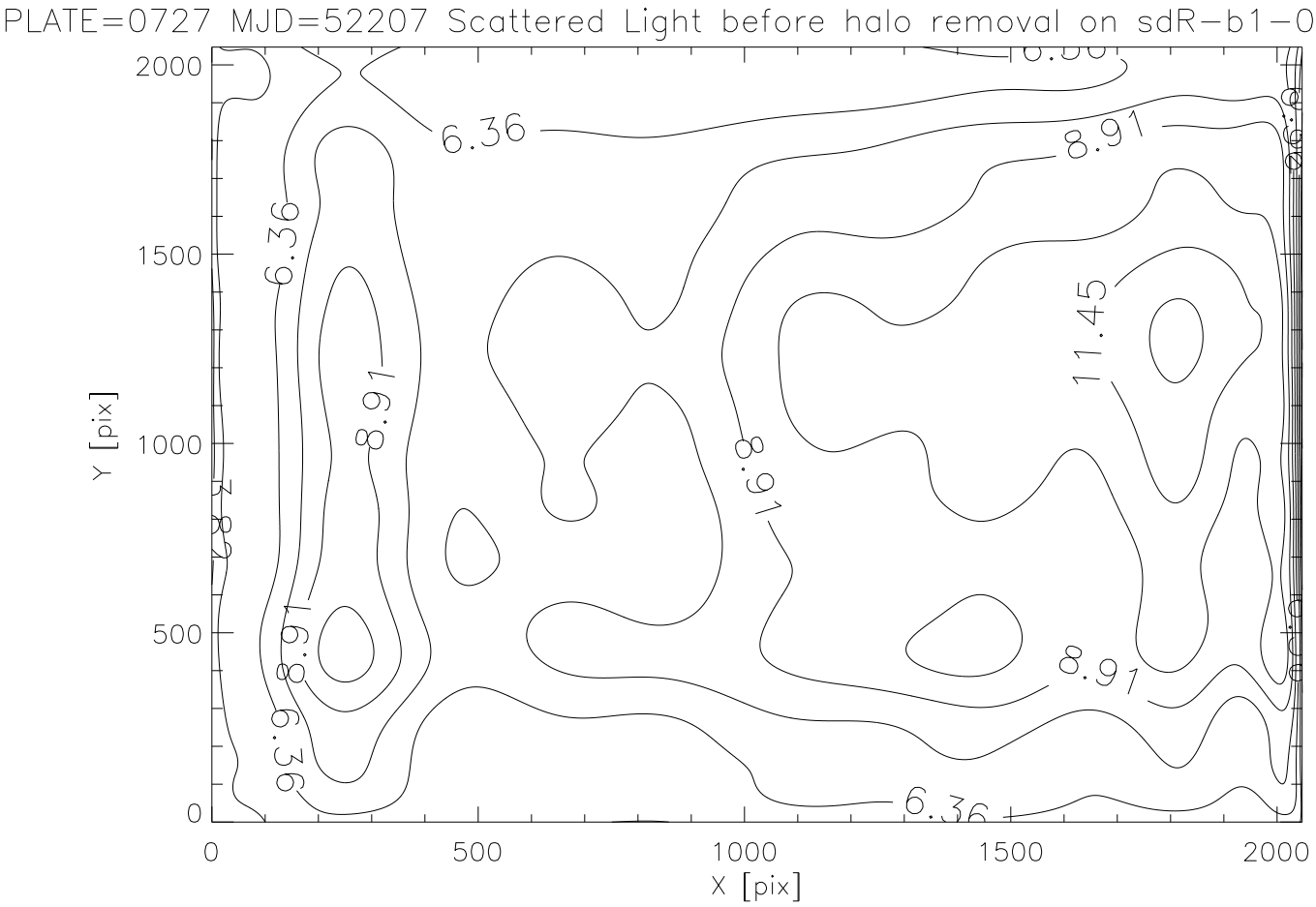

PLATE=0727 MJD=52207 sdR-b1-00011505.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

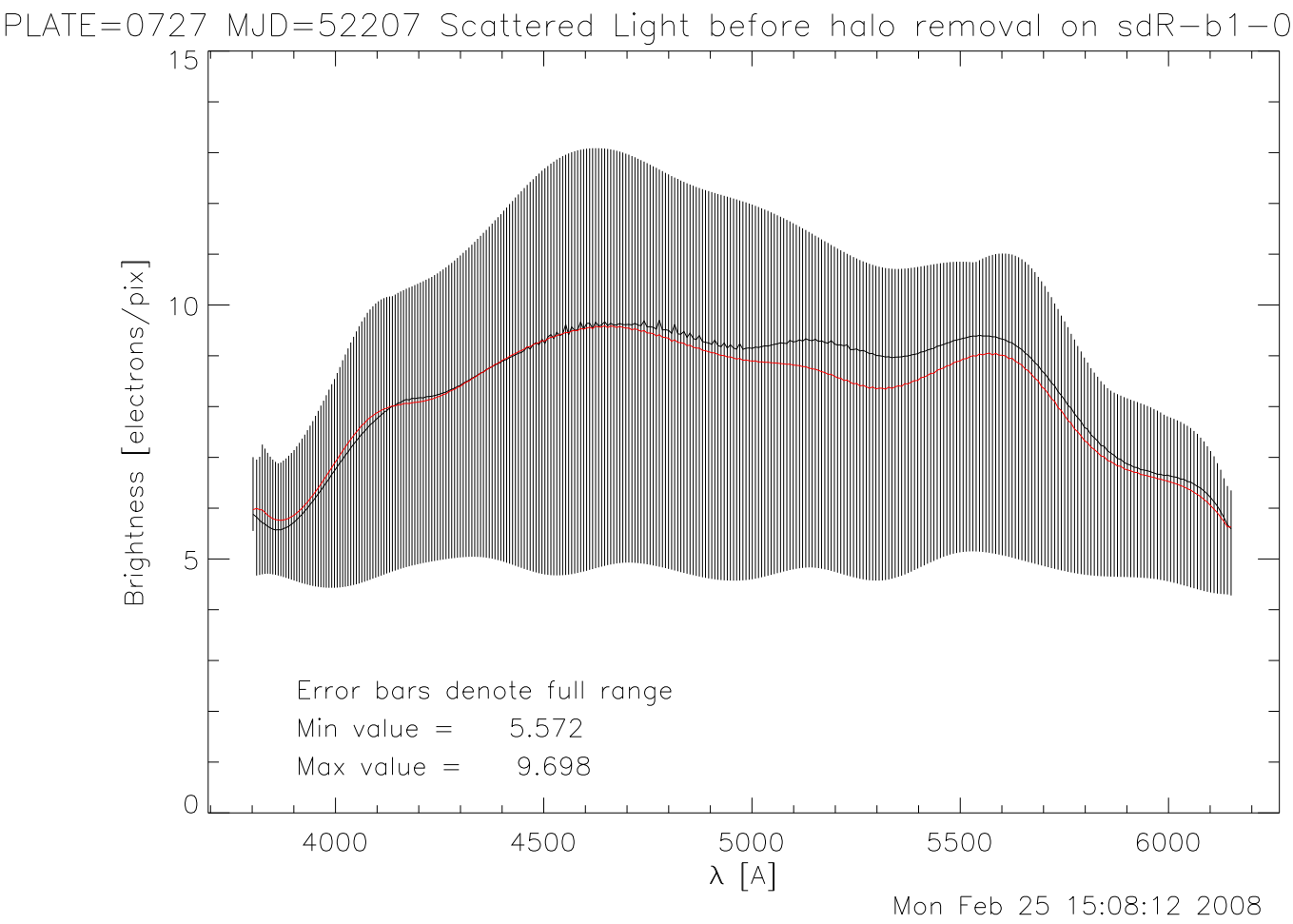

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b1-00011505.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

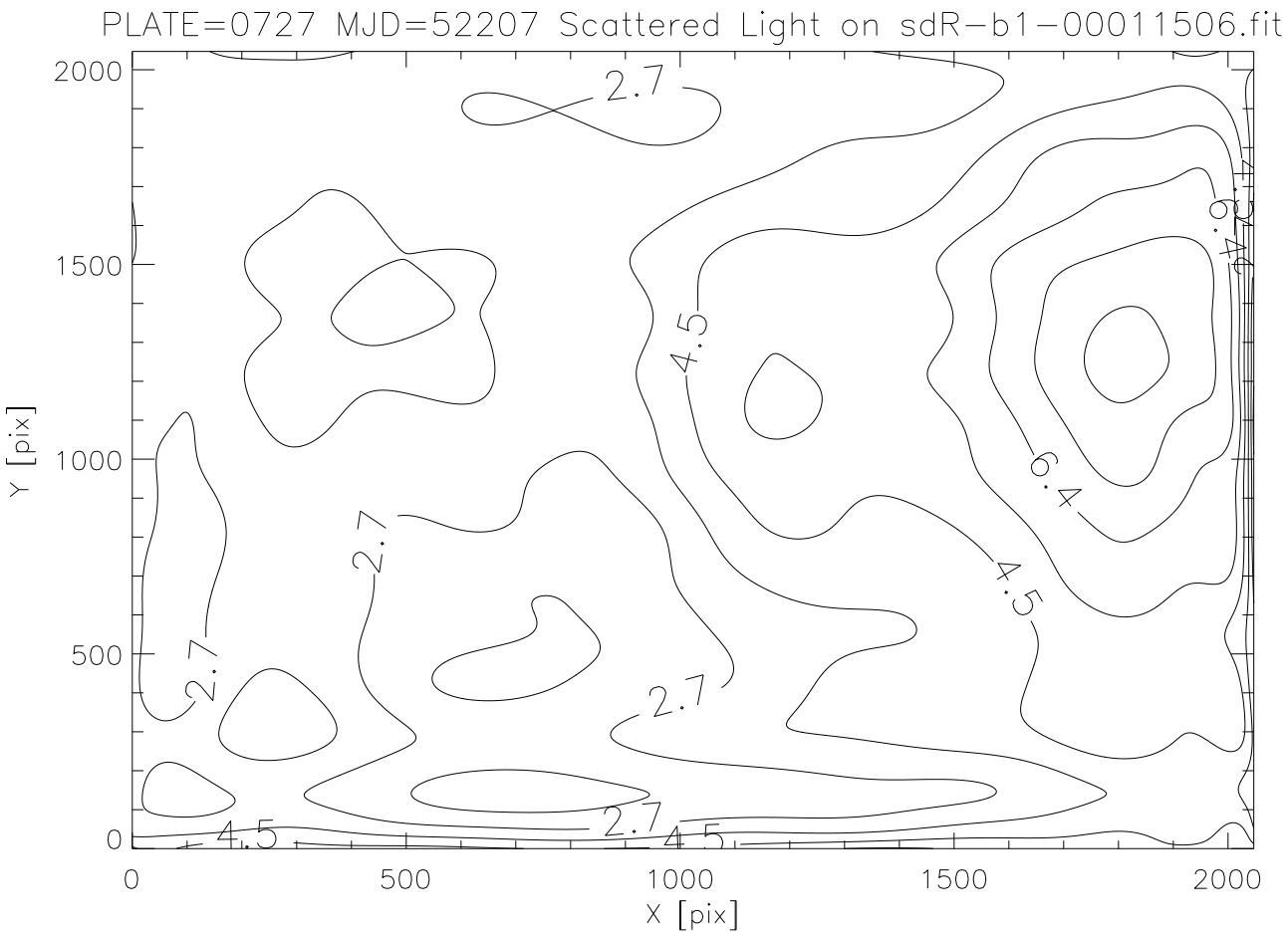

PLATE=0727 MJD=52207 sdR-b1-00011505.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 20.79 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

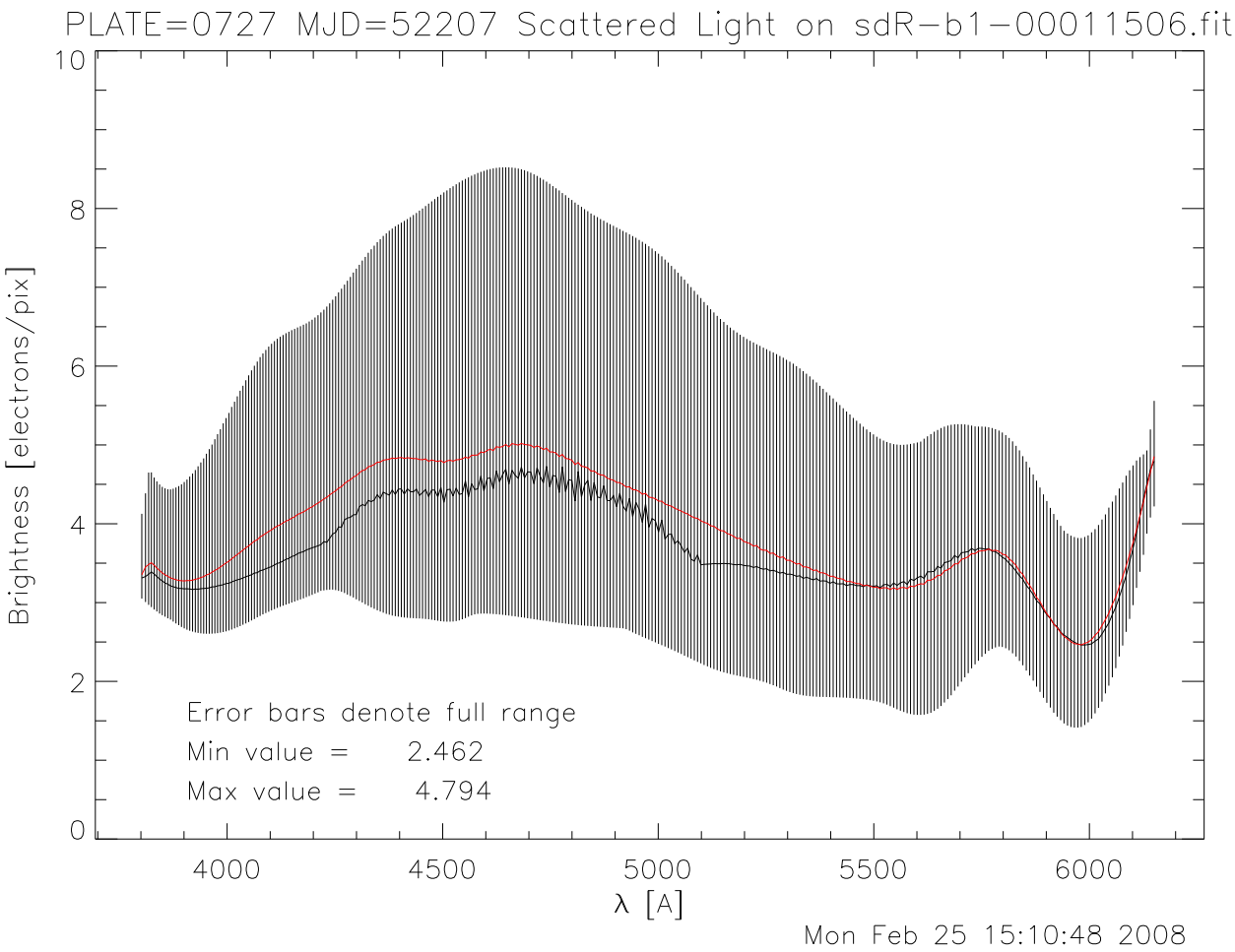

PLATE=0727 MJD=52207 sdR-b1-00011505.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.54 %
Fiber number
Focal Distance [mm]
Airmass

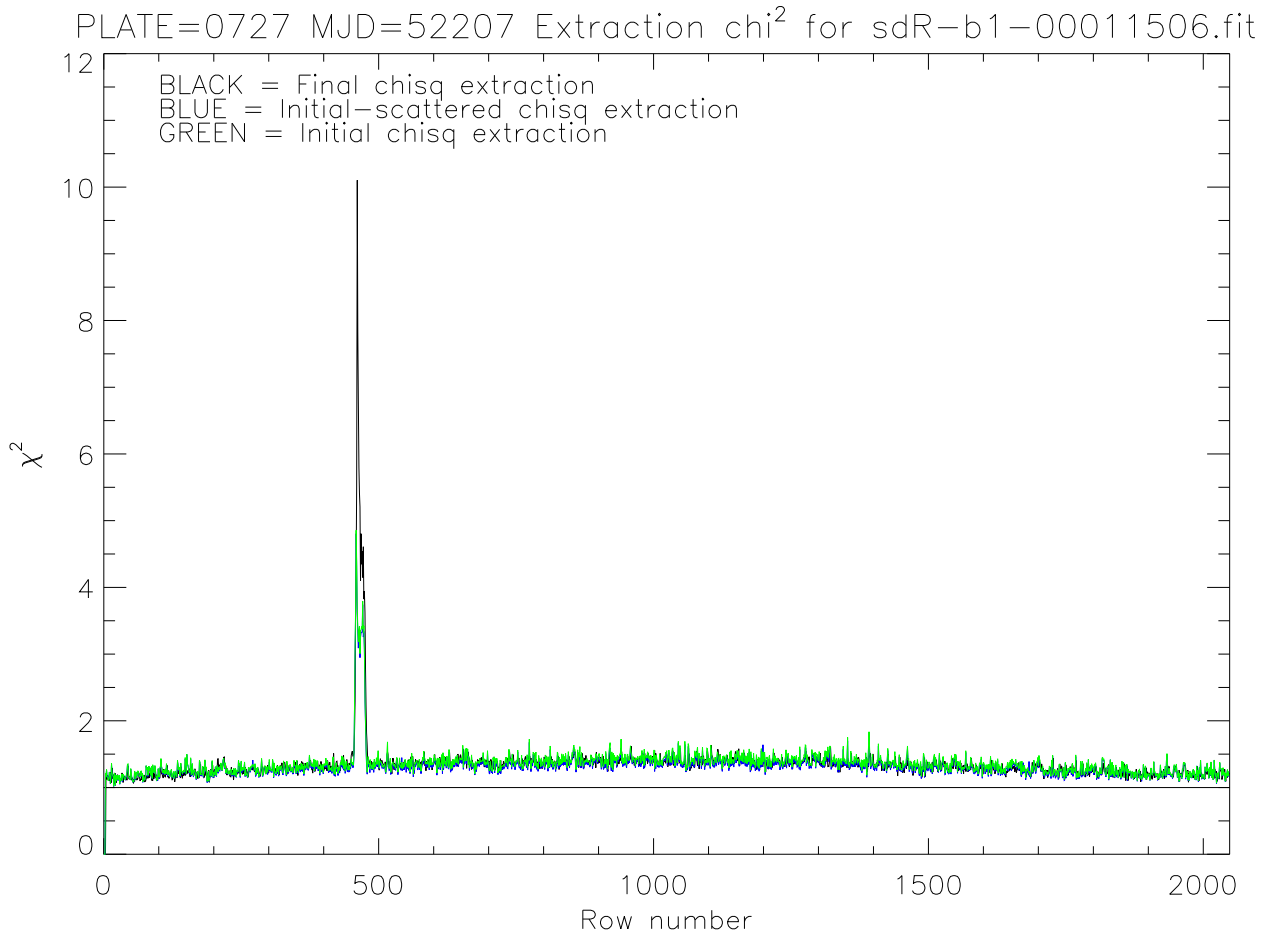

PLATE=0727 MJD=52207 Fiber-Flats for sdR-b1-00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.427
Max value = 1.239
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:07:22 2008

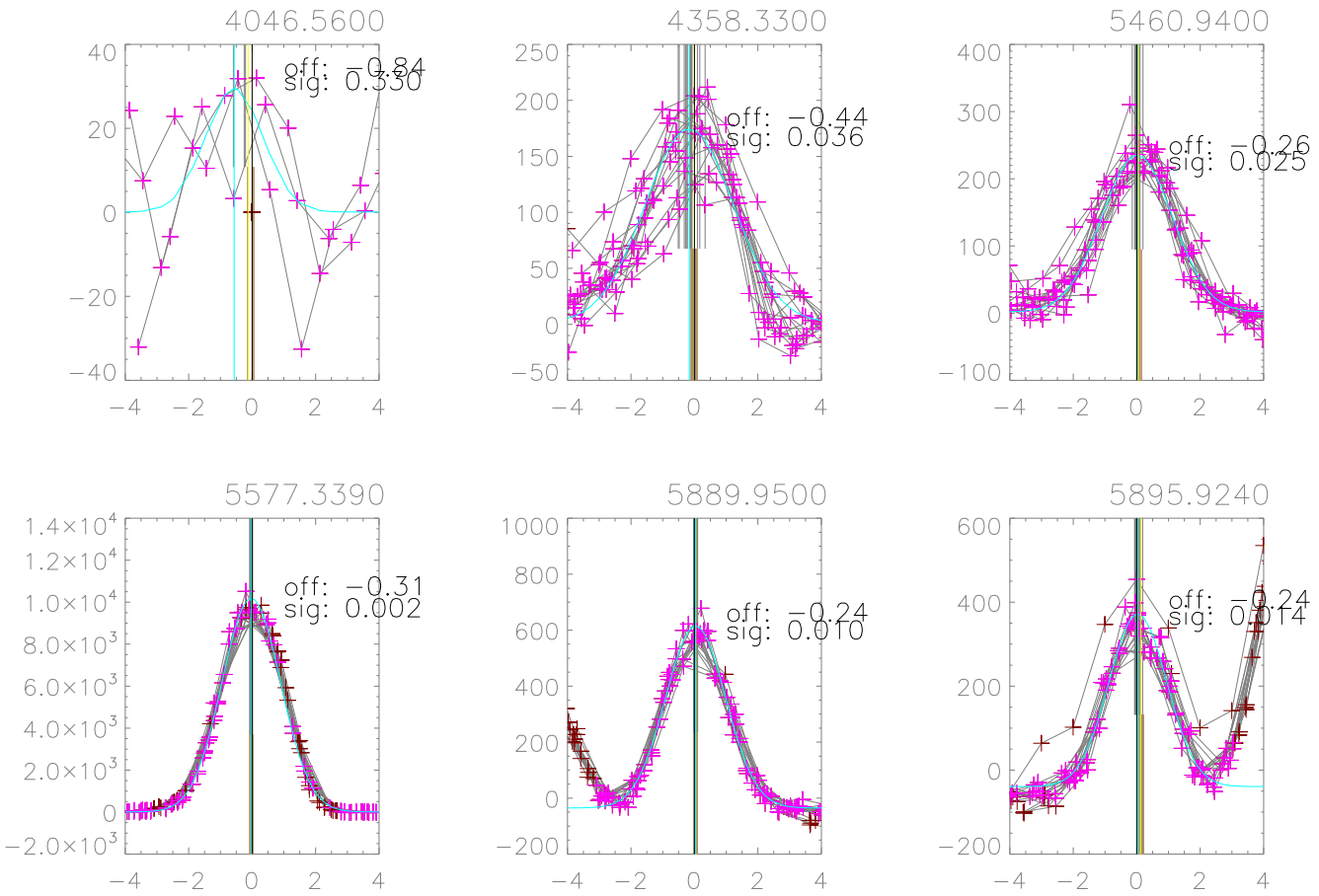

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR−b1−00011506.f
6.36
8.91
11.45
Y [pix]
X [pix]
0
500
1000
1500
2000

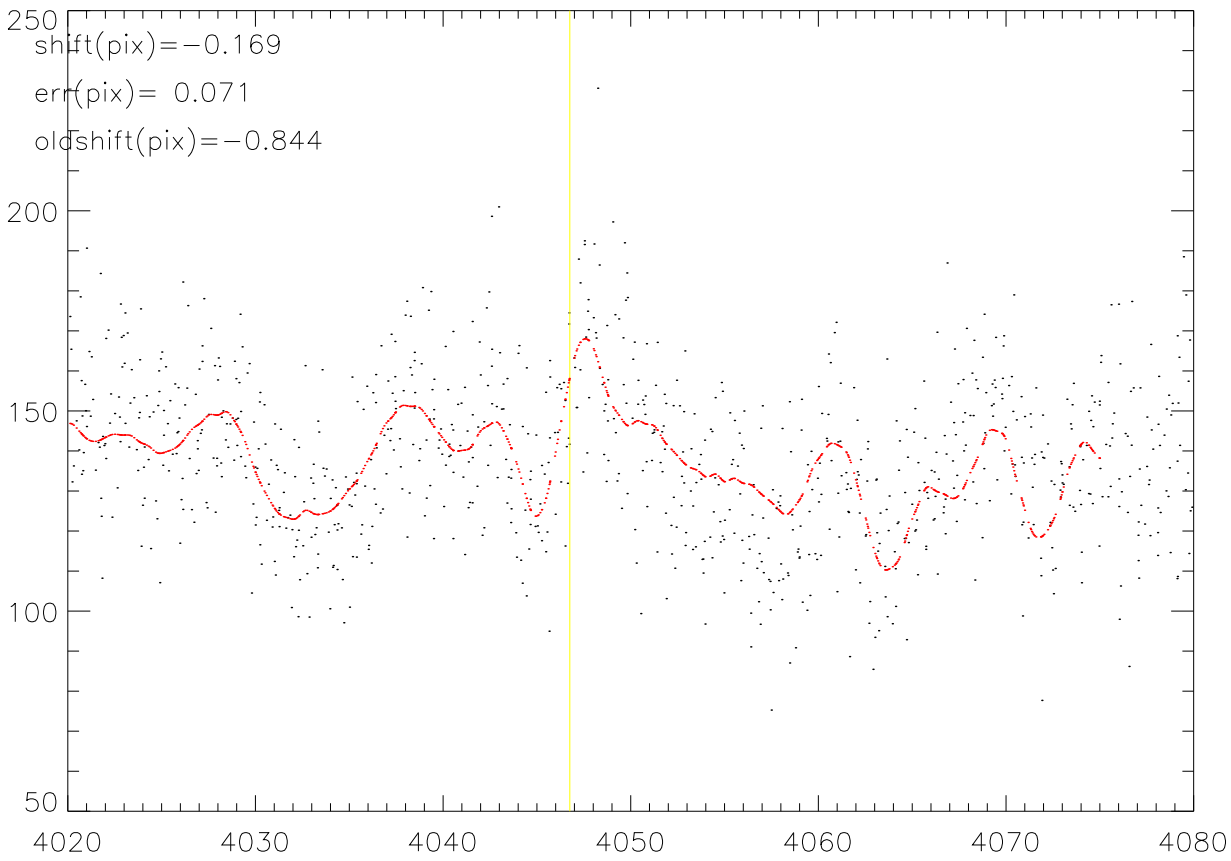

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-b1-00011506.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 5.572
Max value = 9.698
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:08:12 2008

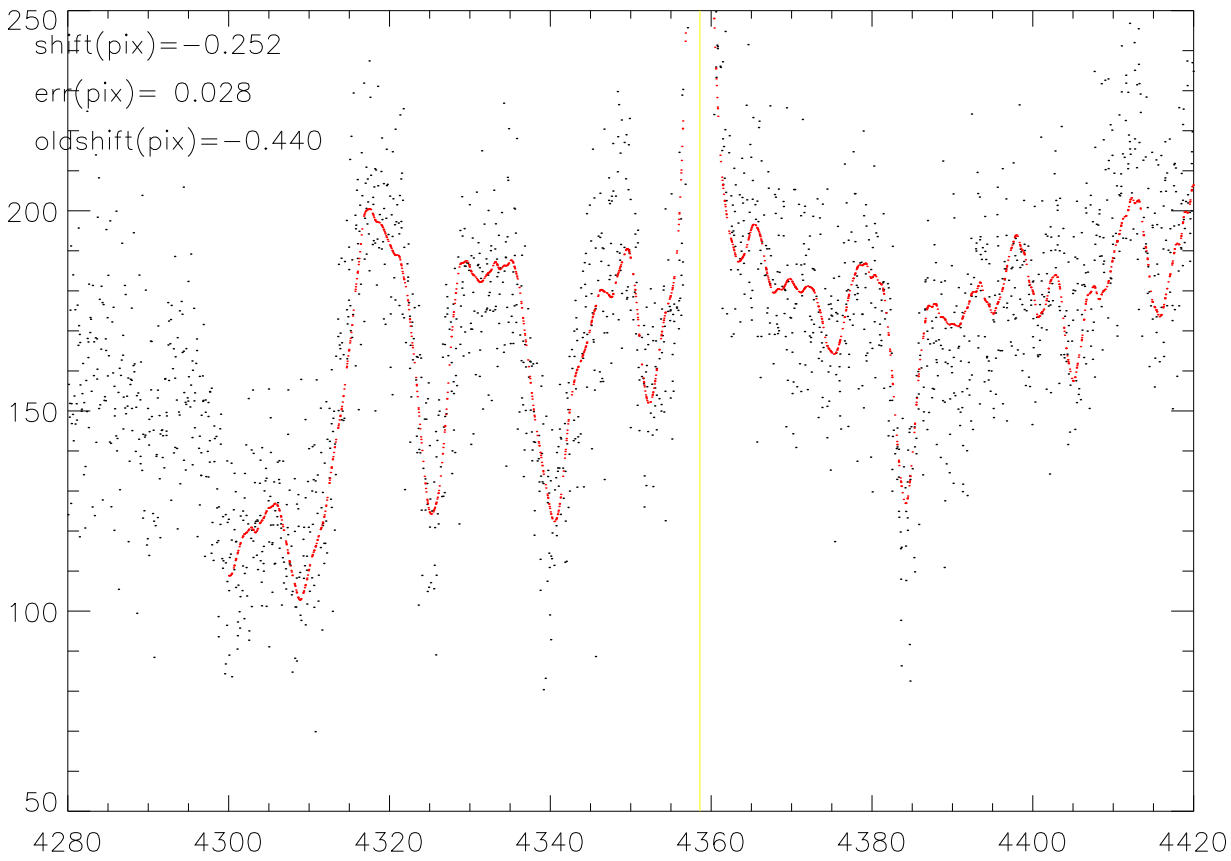

PLATE=0727 MJD=52207 Scattered Light on sdR-b1-00011506.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
2.7
4.5
6.4
2.7
4.5
6.4
2.7
4.5
2.7
4.5

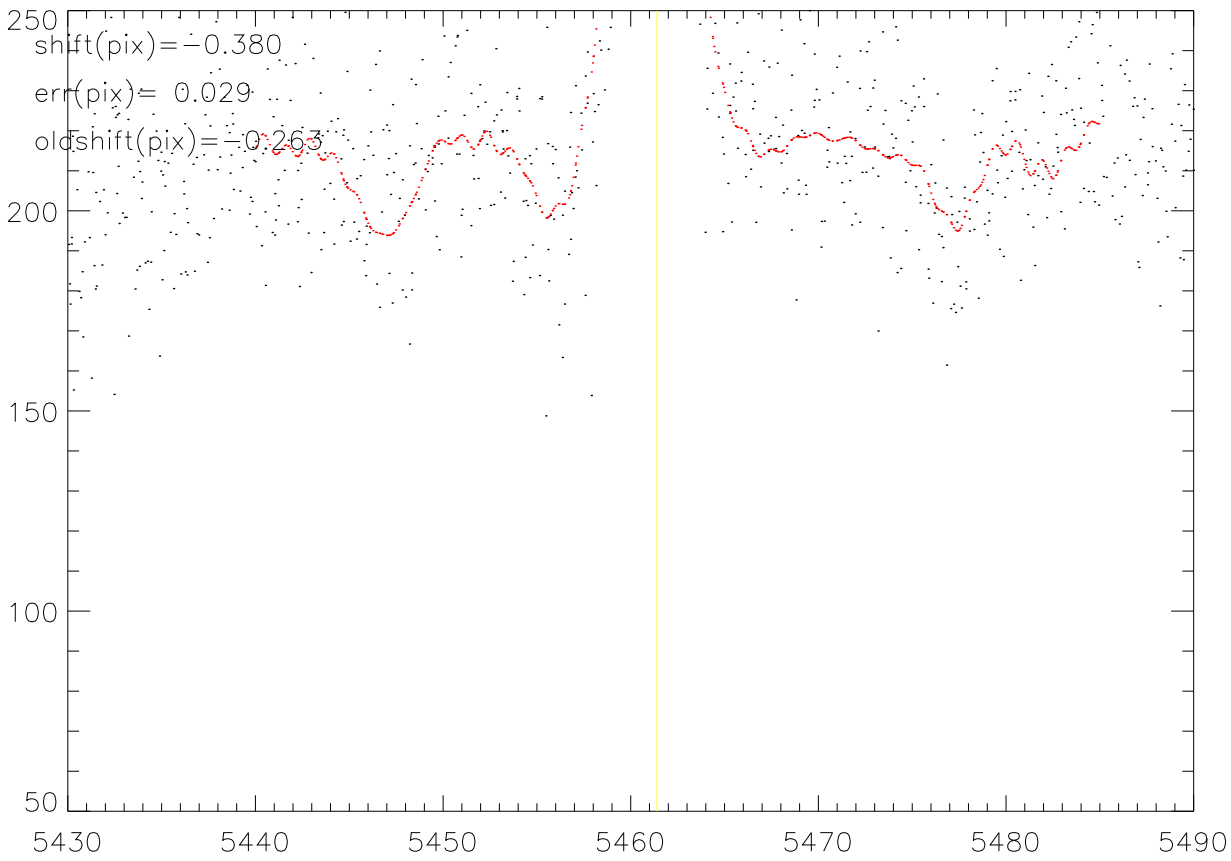

PLATE=0727 MJD=52207 Scattered Light on sdR-b1-00011506.fit
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 2.462
Max value = 4.794
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:10:48 2008

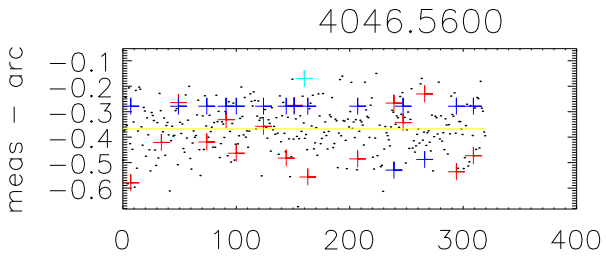

PLATE=0727 MJD=52207 Extraction chi^2 for sdR-b1-00011506.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
0
500
1000
1500
2000
Row number

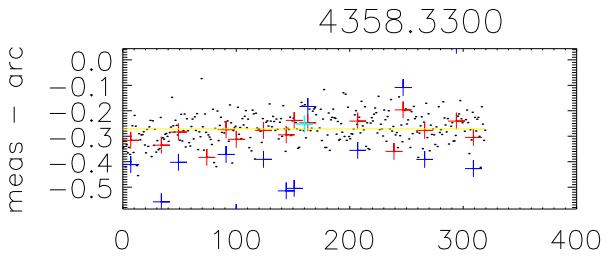

4046.5600
off: −0.84
sig: 0.330
4358.3300
off: −0.44
sig: 0.036
5460.9400
off: −0.26
sig: 0.025
5577.3390
off: −0.31
sig: 0.002
5889.9500
off: −0.24
sig: 0.010
5895.9240
off: −0.24
sig: 0.014

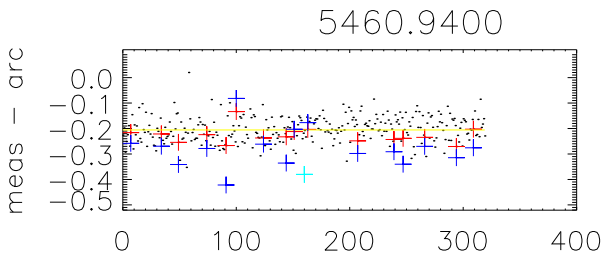

shift(pix)=−0.169
err(pix)= 0.071
oldshift(pix)=−0.844
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

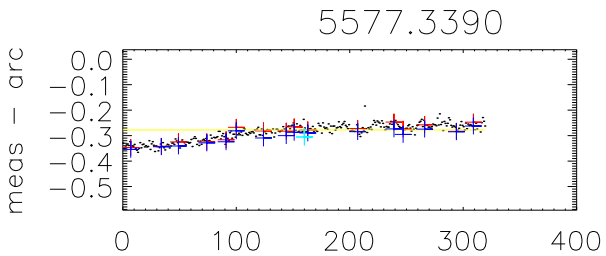

shift(pix)=−0.252
err(pix)= 0.028
oldshift(pix)=−0.440
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

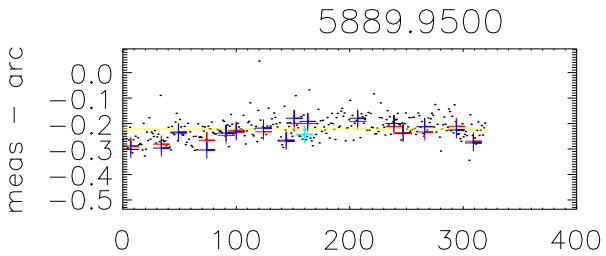

shift(pix)=−0.380
err(pix)= 0.029
oldshift(pix)=−0.263
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

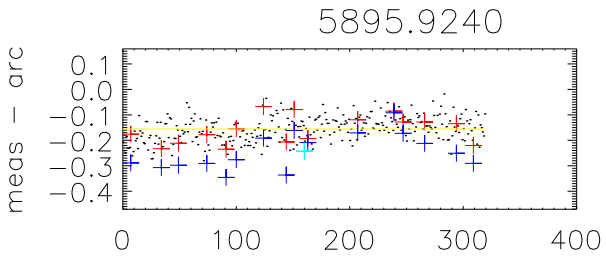

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

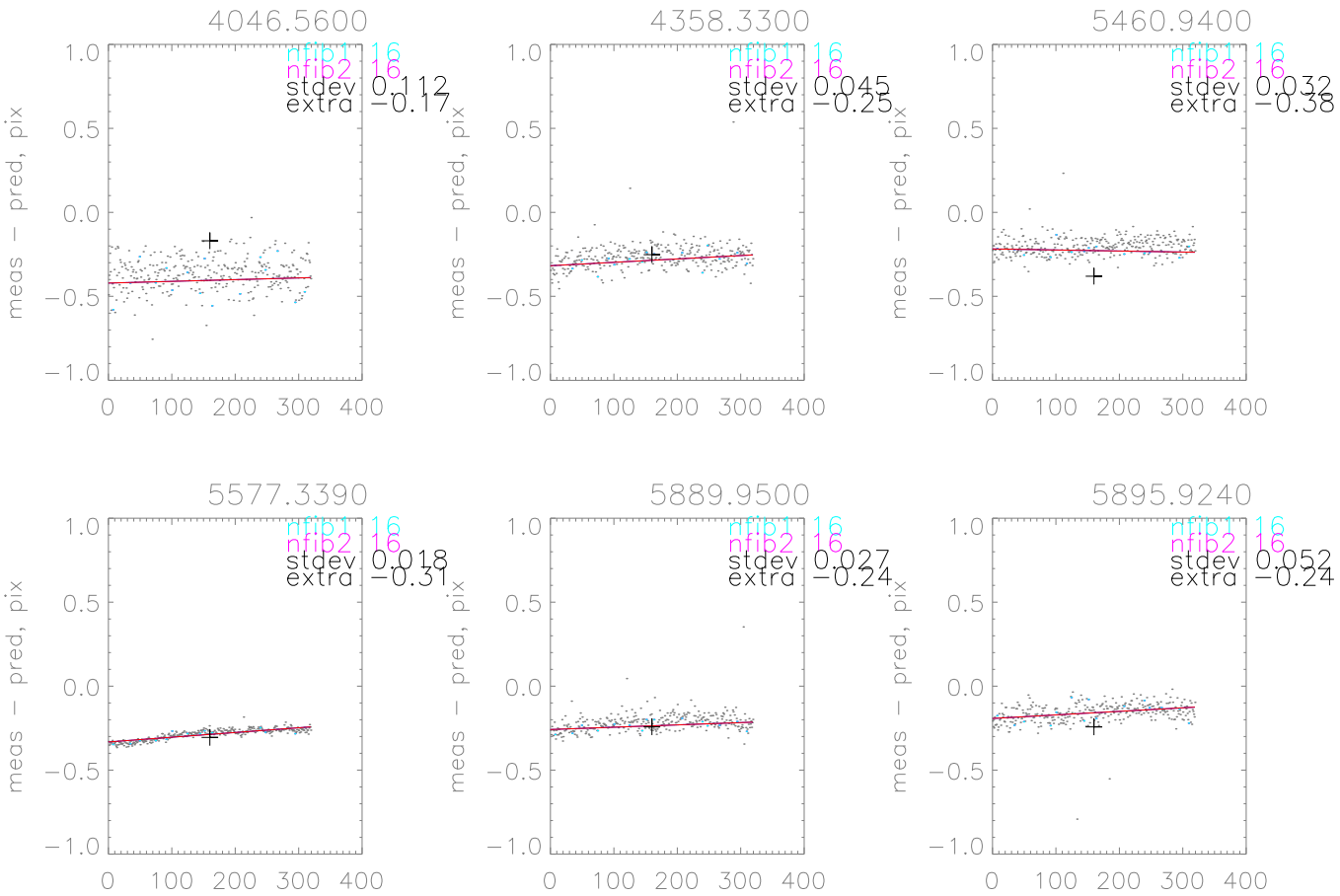

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

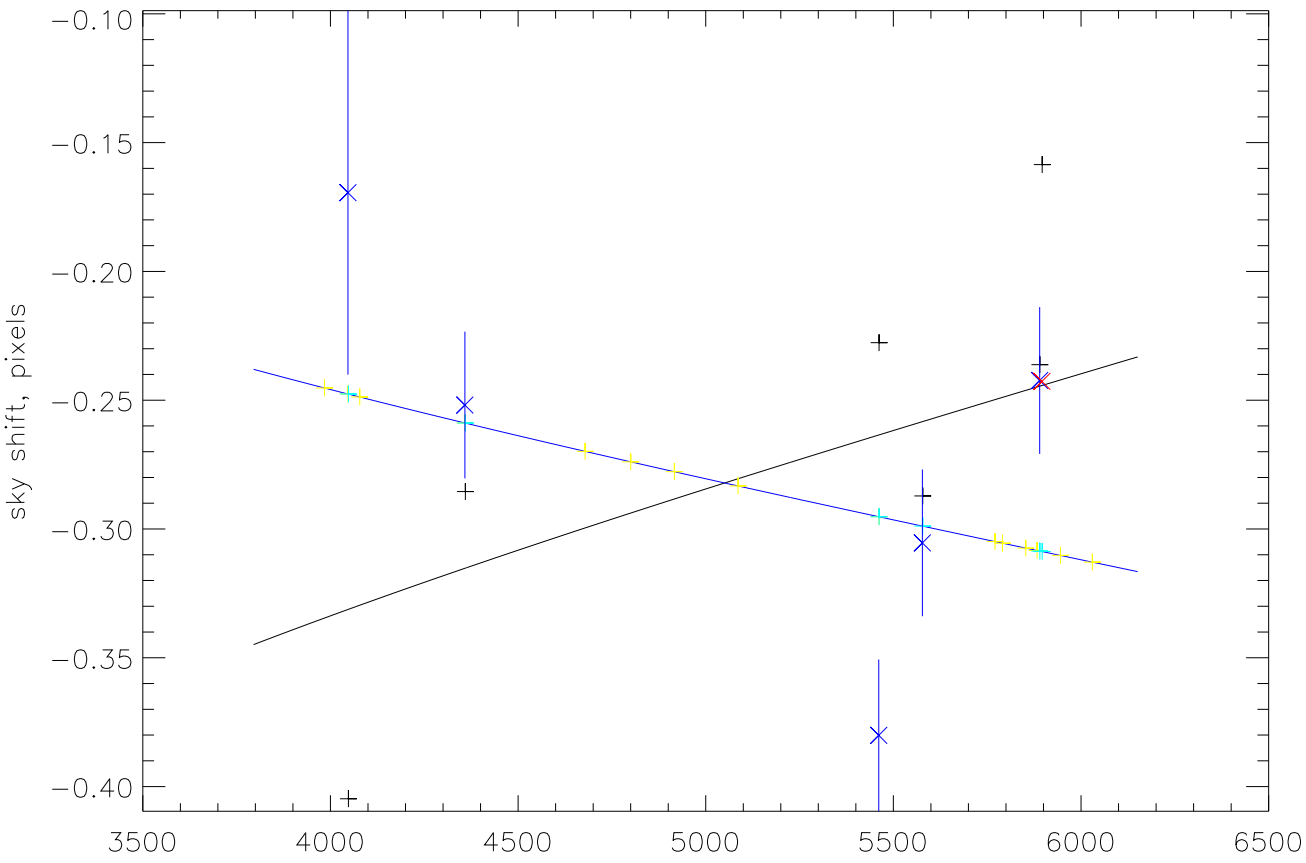

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

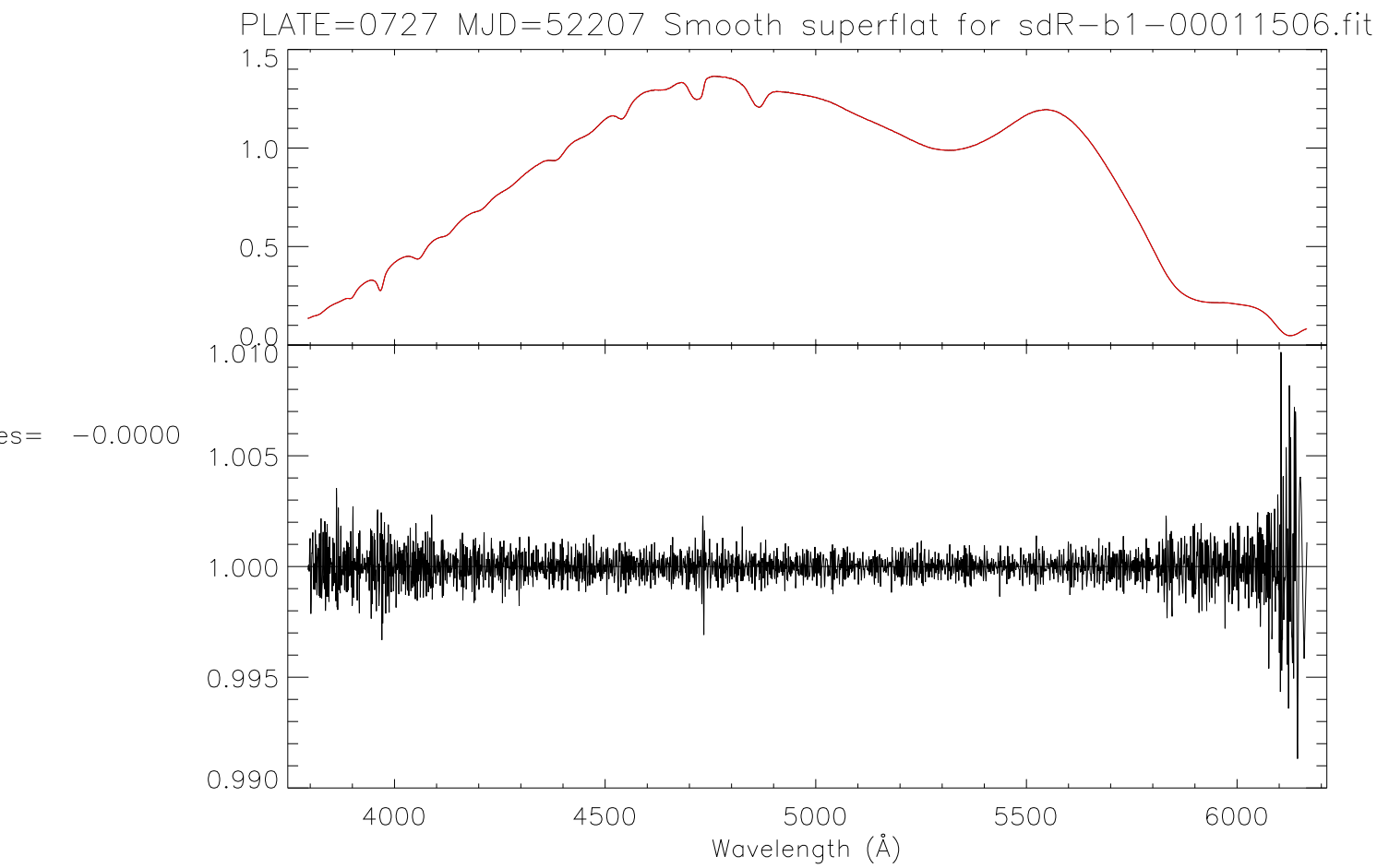

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

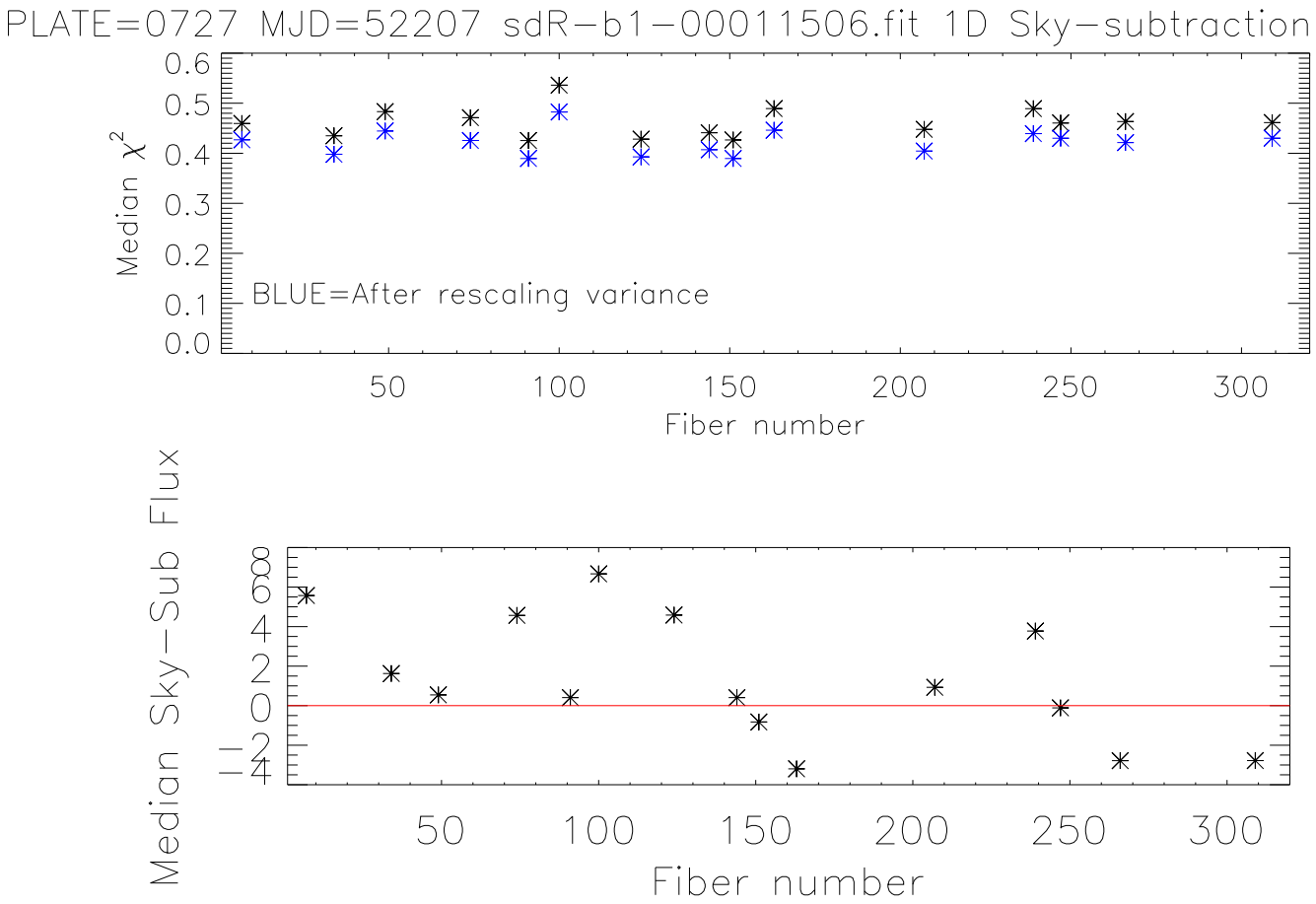

5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

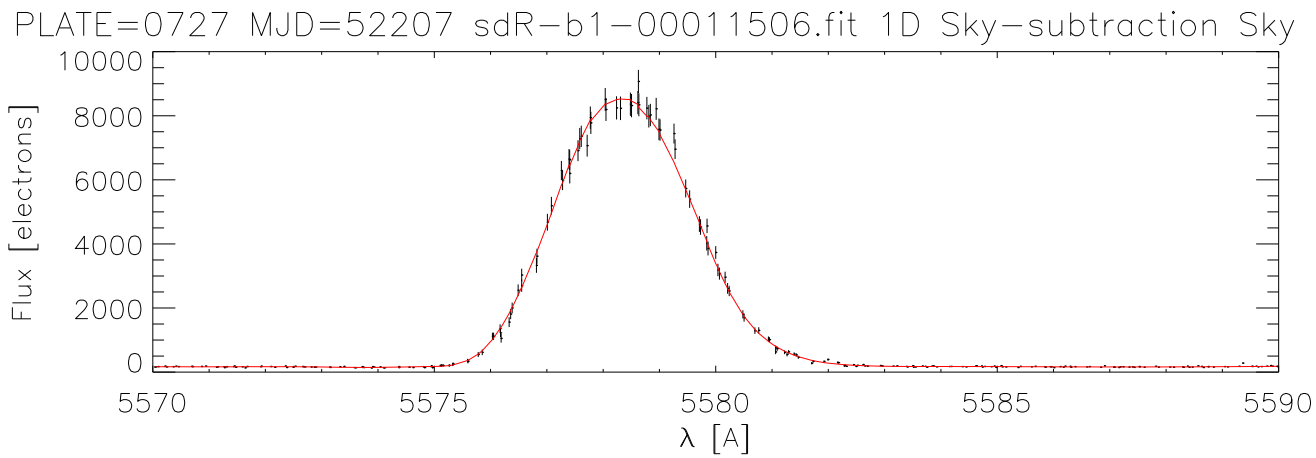

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

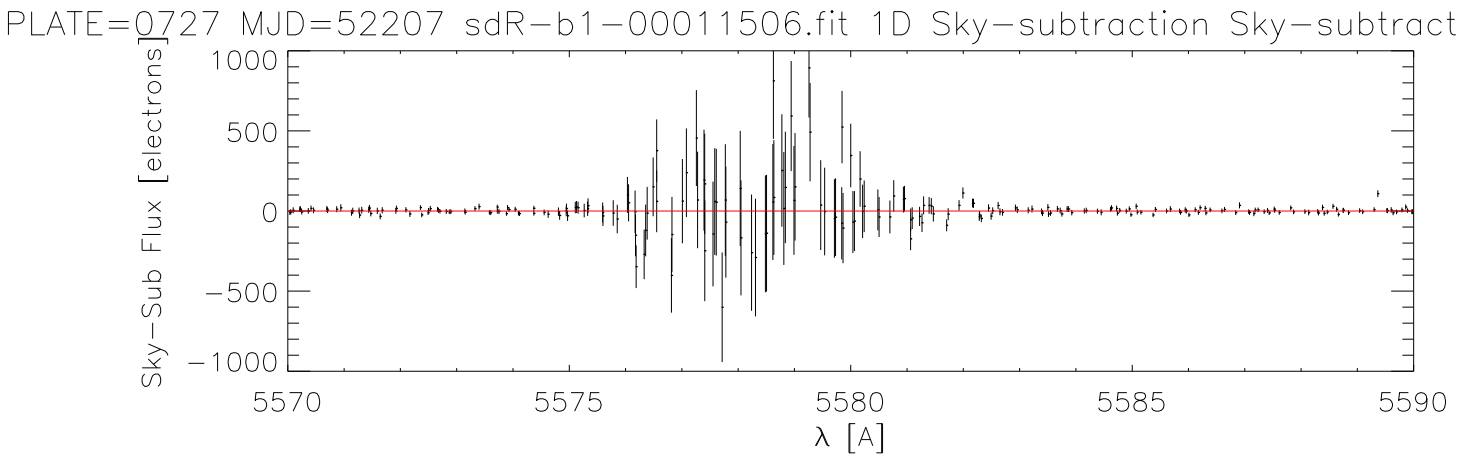

4046.5600
nfib1 16
nfib2 16
stdev 0.112
extra −0.17
4358.3300
nfib1 16
nfib2 16
stdev 0.045
extra −0.25
5460.9400
nfib1 16
nfib2 16
stdev 0.032
extra −0.38
5577.3390
nfib1 16
nfib2 16
stdev 0.018
extra −0.31
5889.9500
nfib1 16
nfib2 16
stdev 0.027
extra −0.24
5895.9240
nfib1 16
nfib2 16
stdev 0.052
extra −0.24
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

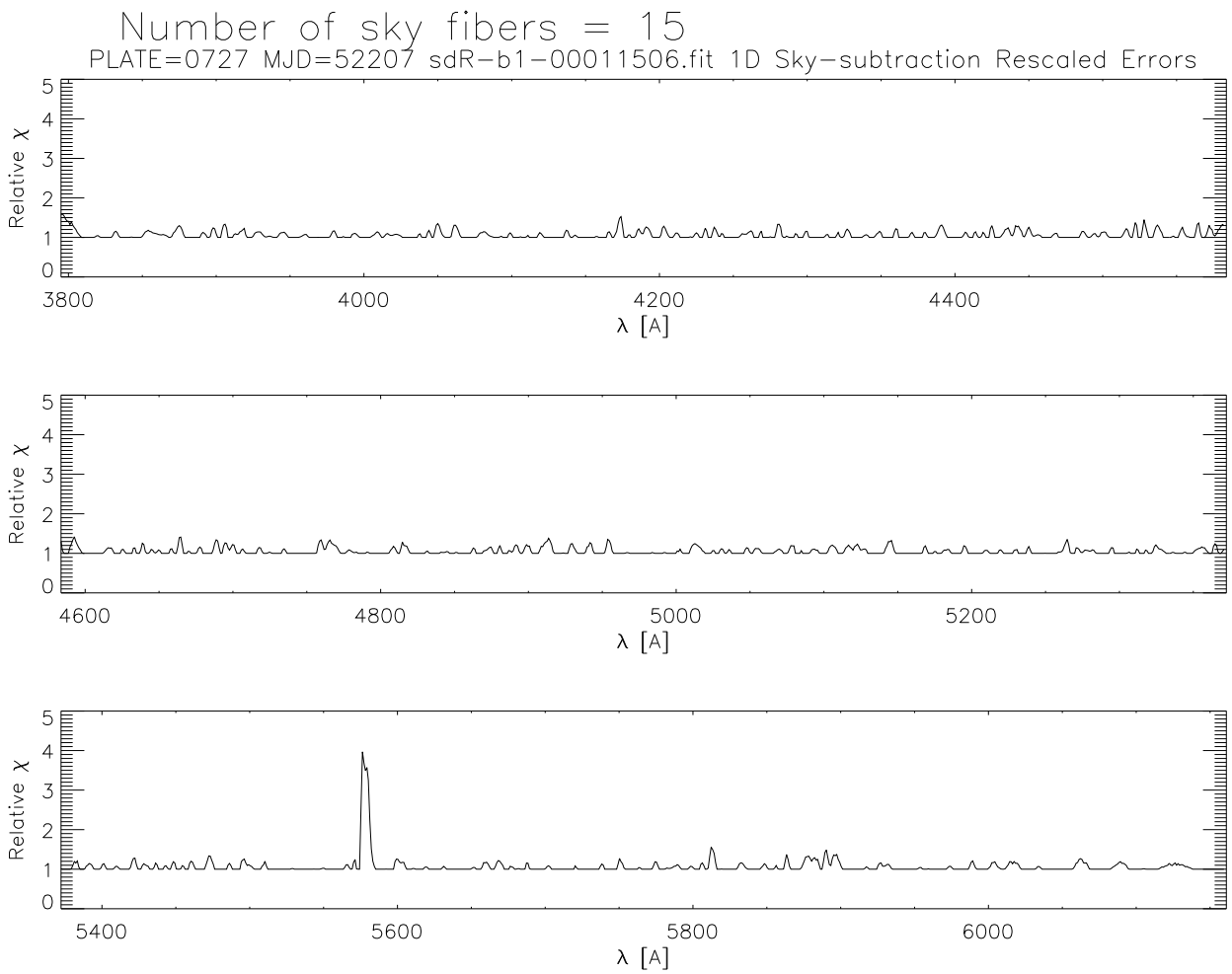

−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

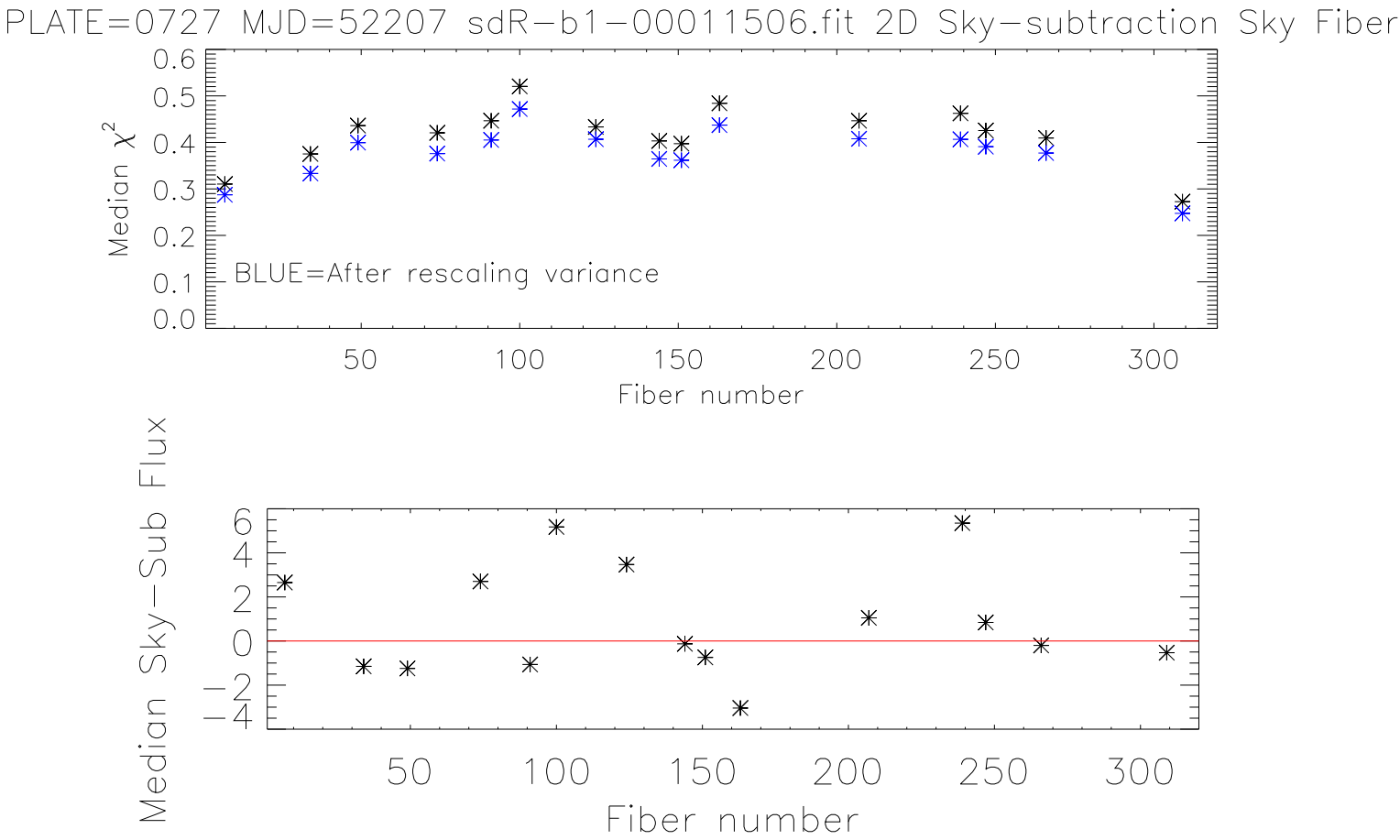

PLATE=0727 MJD=52207 Smooth superflat for sdR-b1-00011506.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

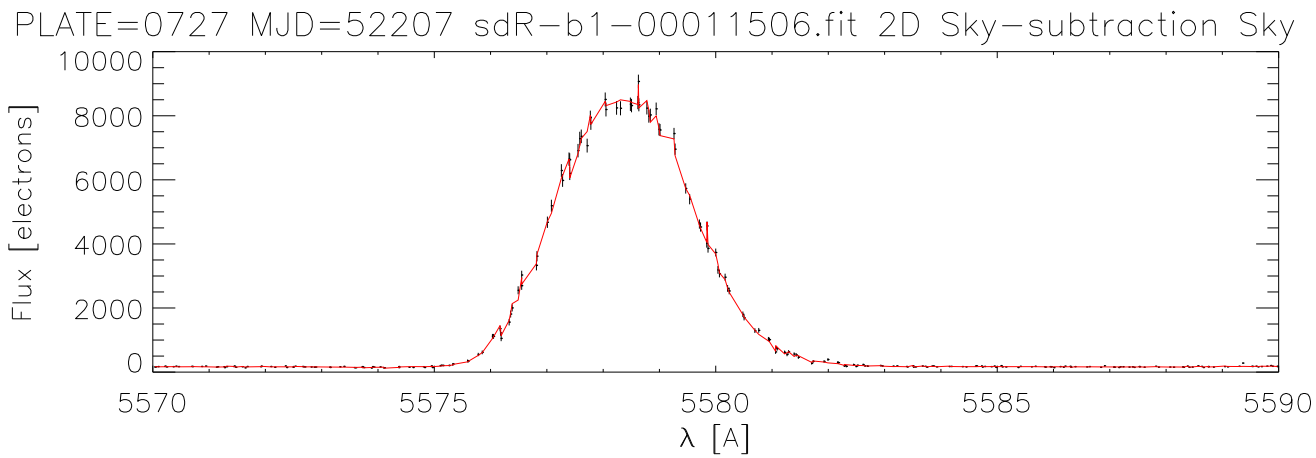

PLATE=0727 MJD=52207 sdR-b1-00011506.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

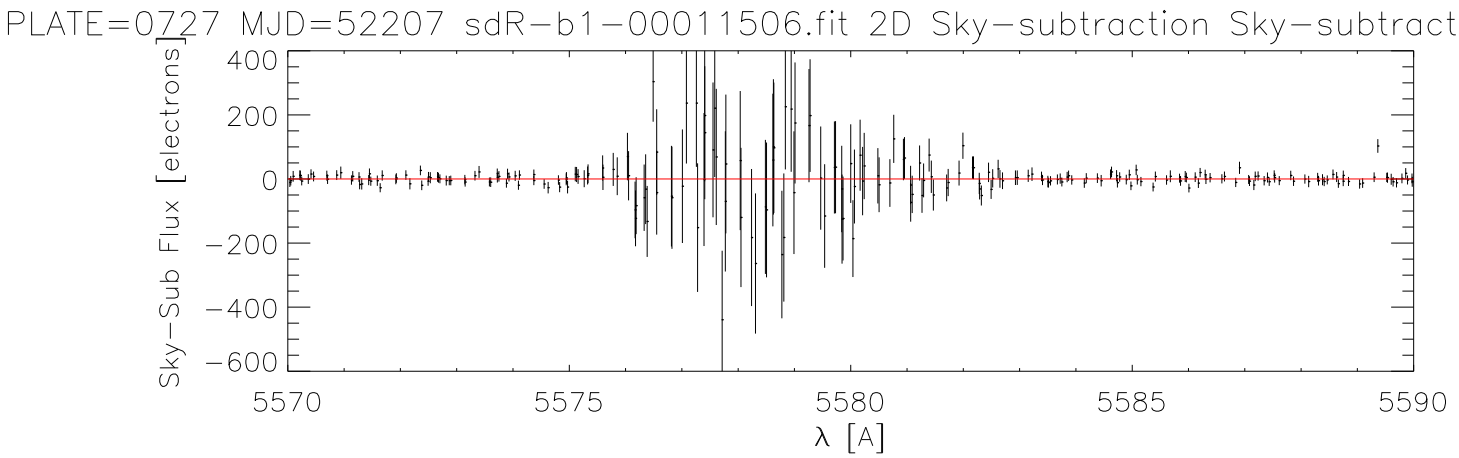

PLATE=0727 MJD=52207 sdR-b1-00011506.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

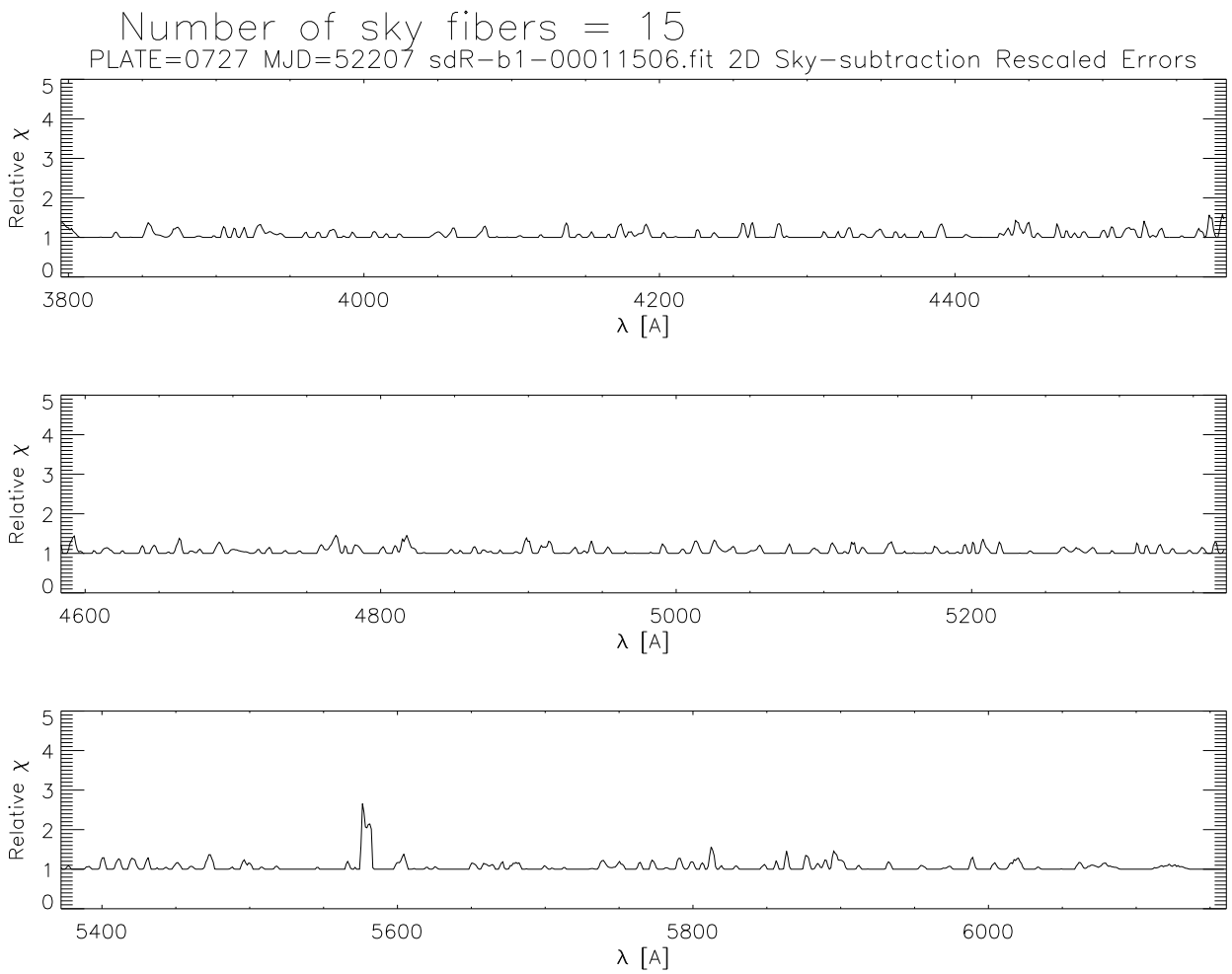

PLATE=0727 MJD=52207 sdR-b1-00011506.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

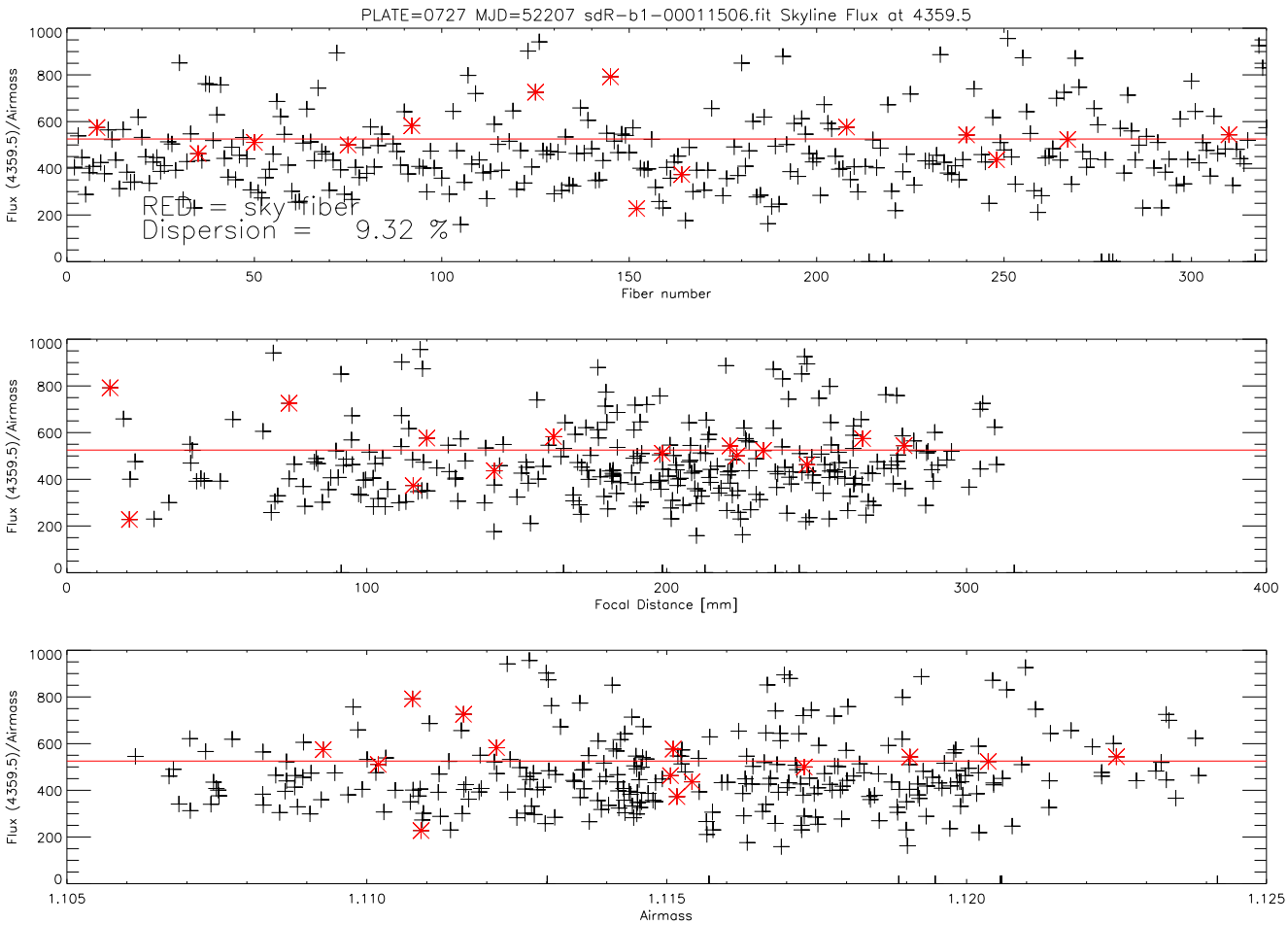

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b1-00011506.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5


PLATE=0727 MJD=52207 sdR-b1-00011506.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=0727 MJD=52207 sdR-b1-00011506.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

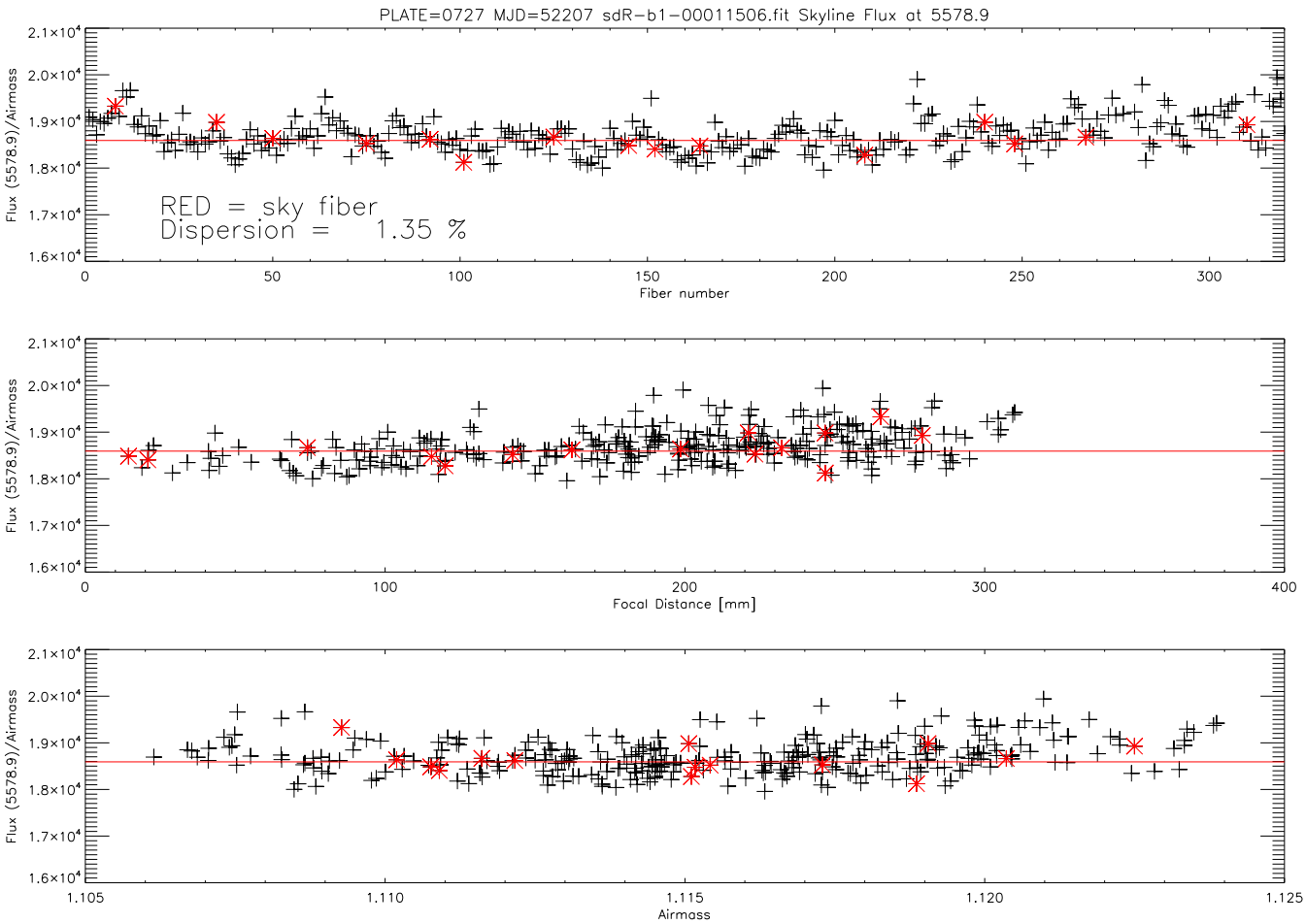

PLATE=0727 MJD=52207 sdR-b1-00011506.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

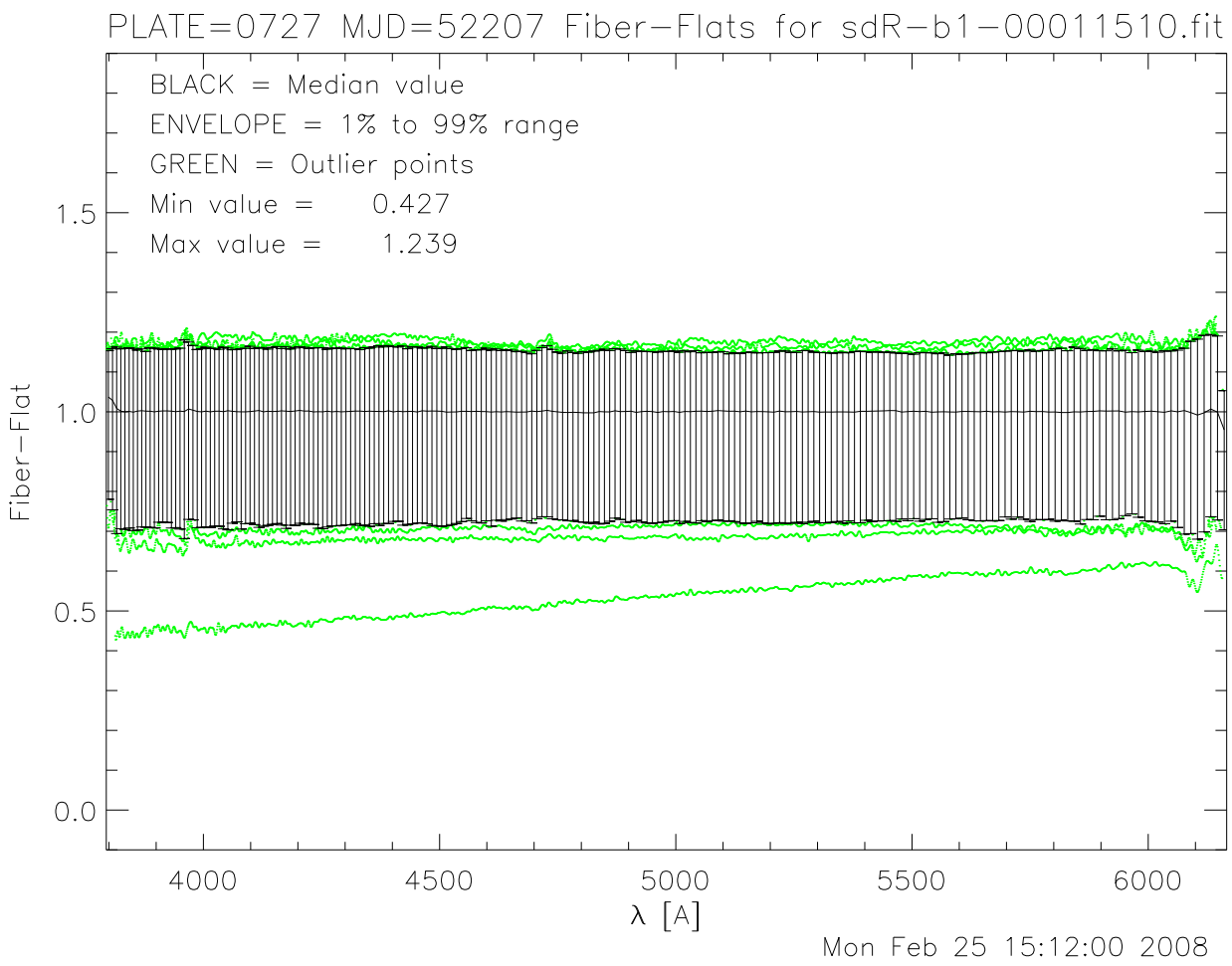

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b1-00011506.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

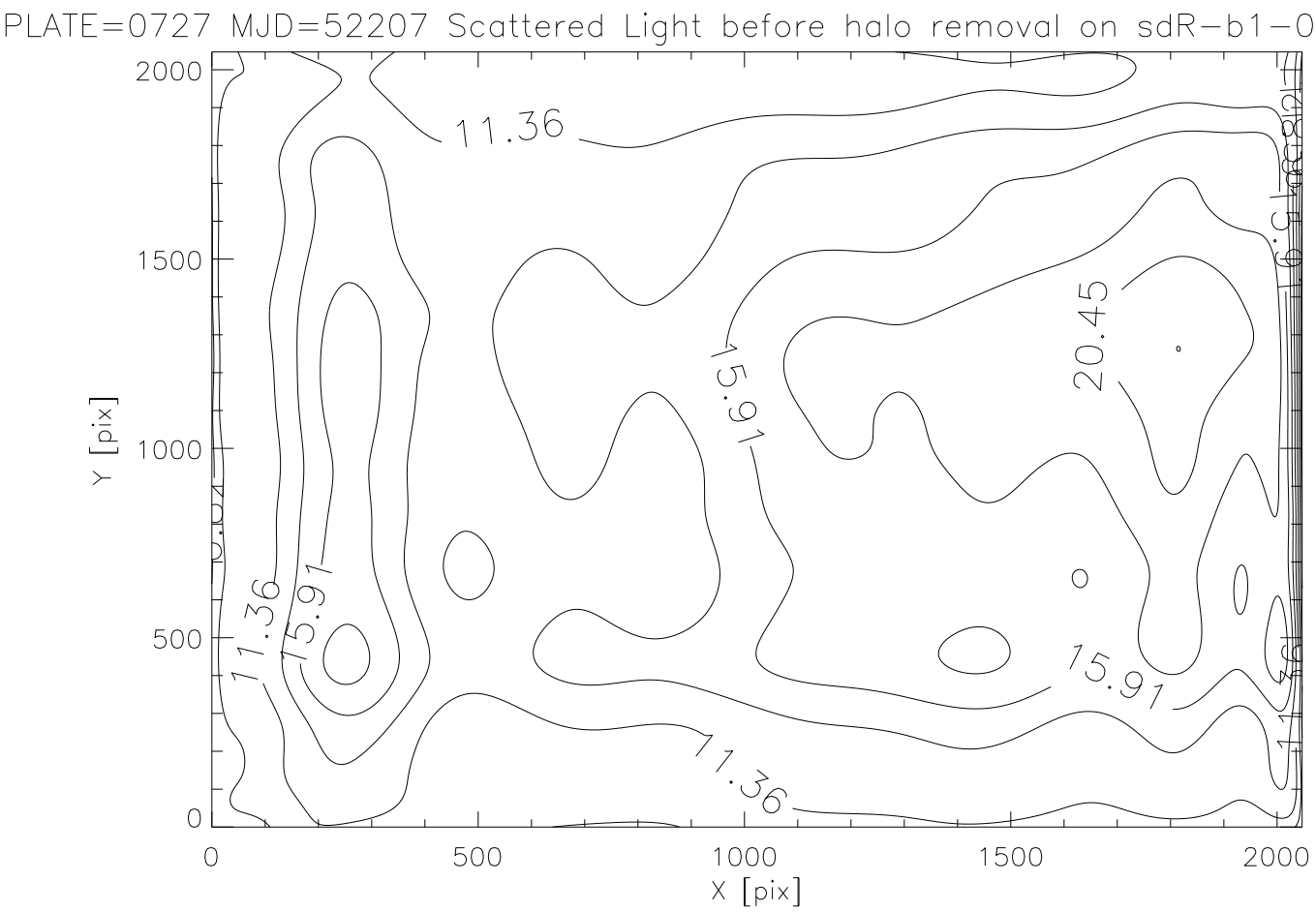

PLATE=0727 MJD=52207 sdR-b1-00011506.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 9.32 %

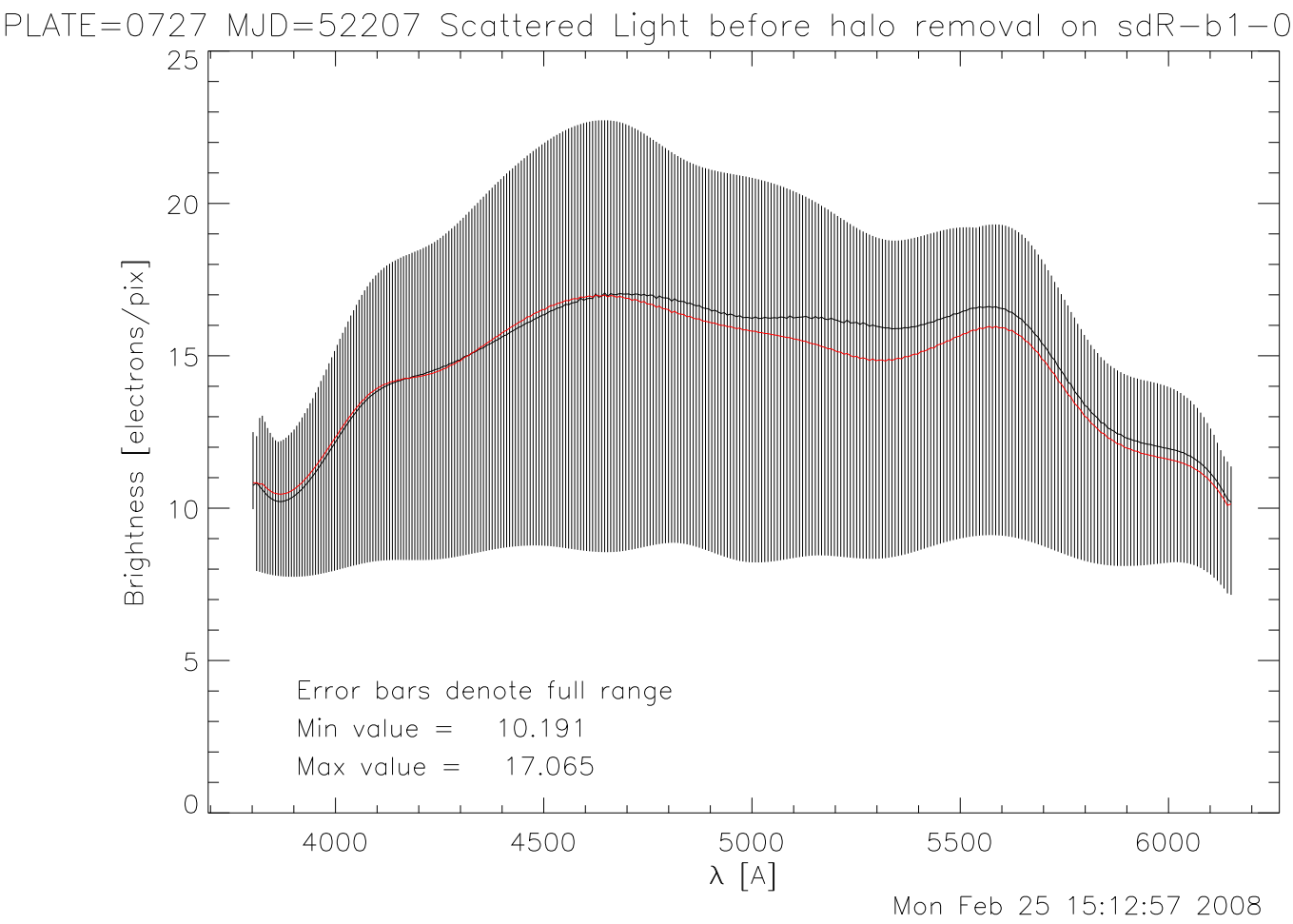
Flux (4359.5)/Airmass
Focal Distance [mm]

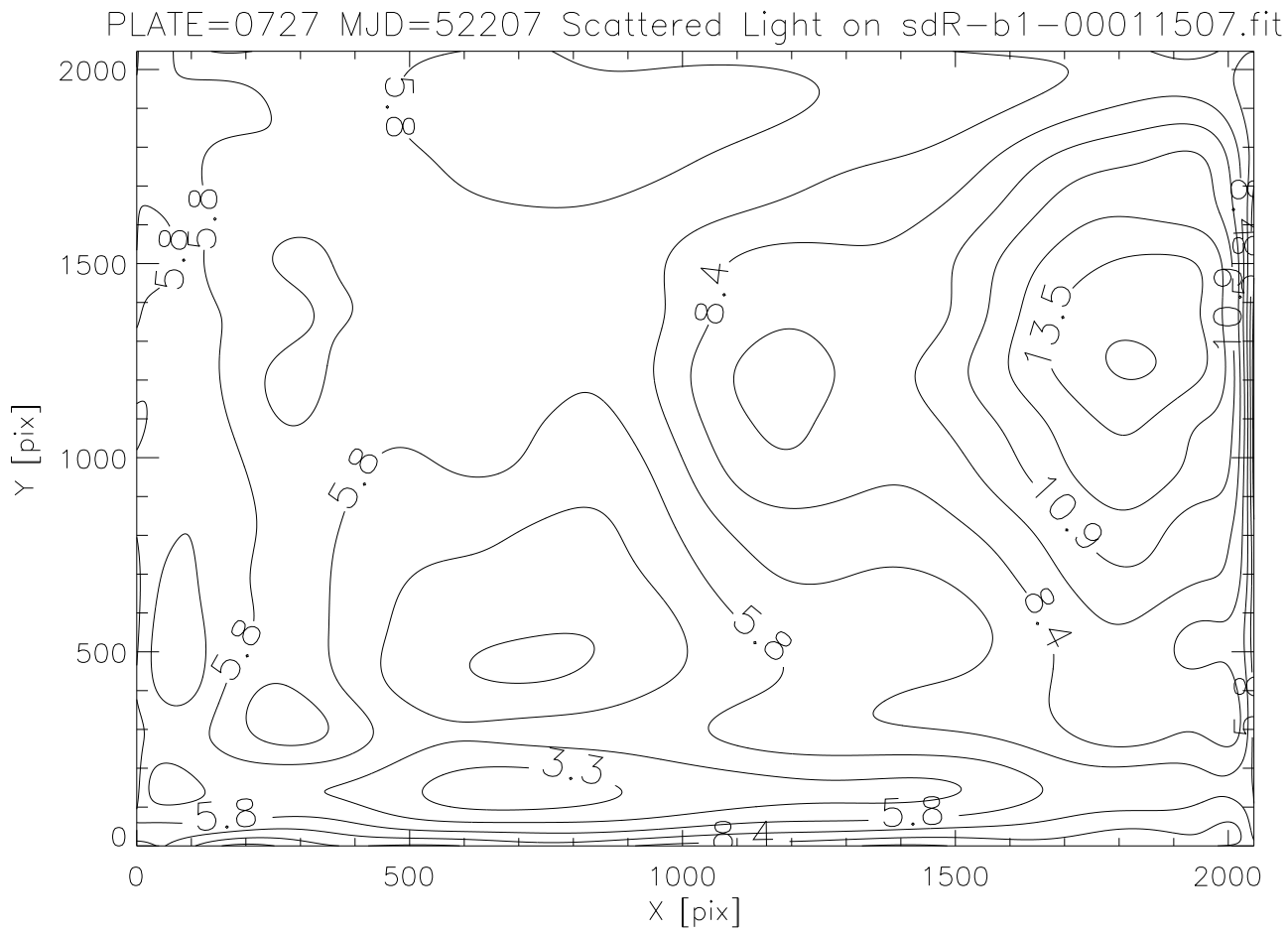
Flux (4359.5)/Airmass
Airmass

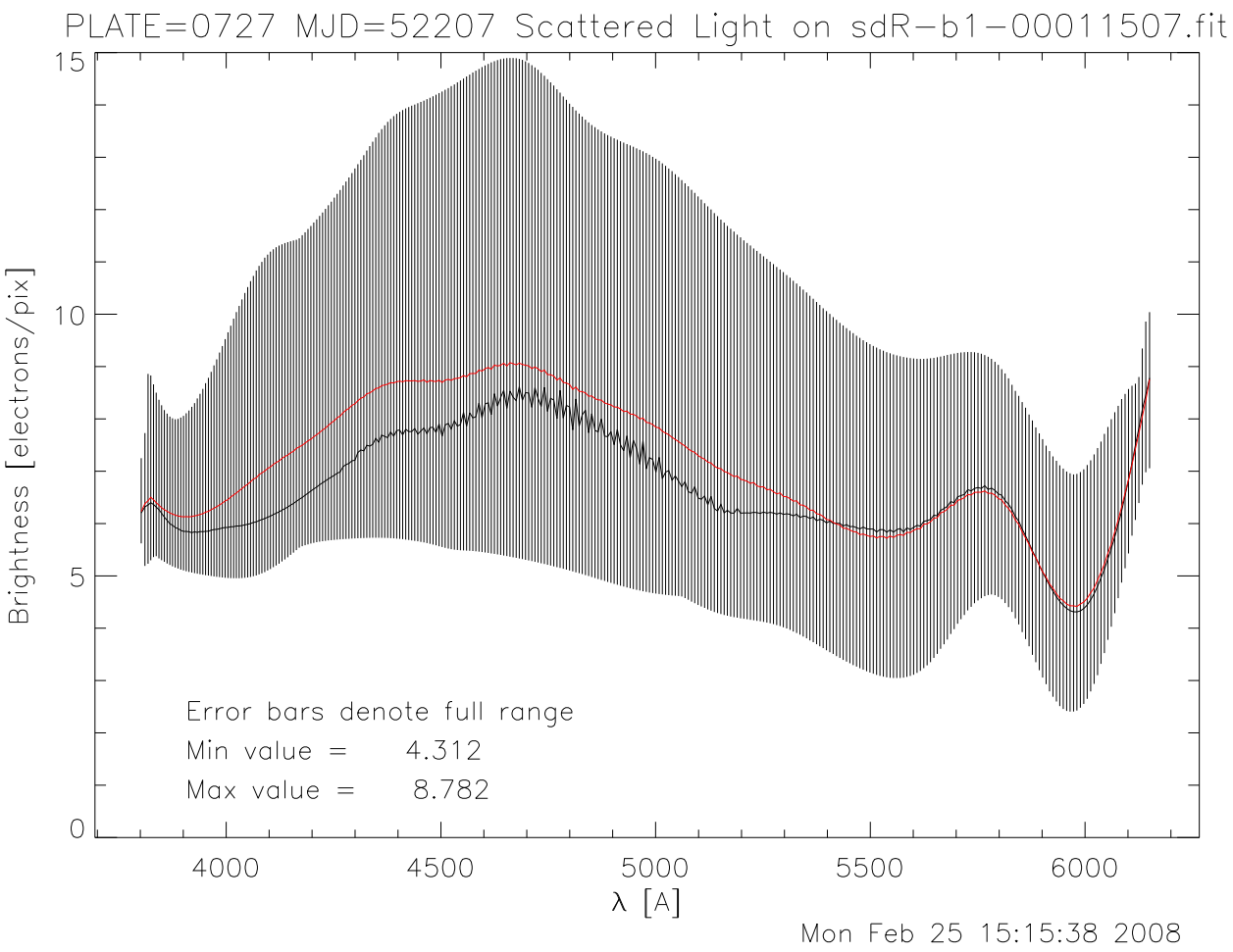

PLATE=0727 MJD=52207 sdR-b1-00011506.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.35 %
Fiber number
Focal Distance [mm]
Airmass

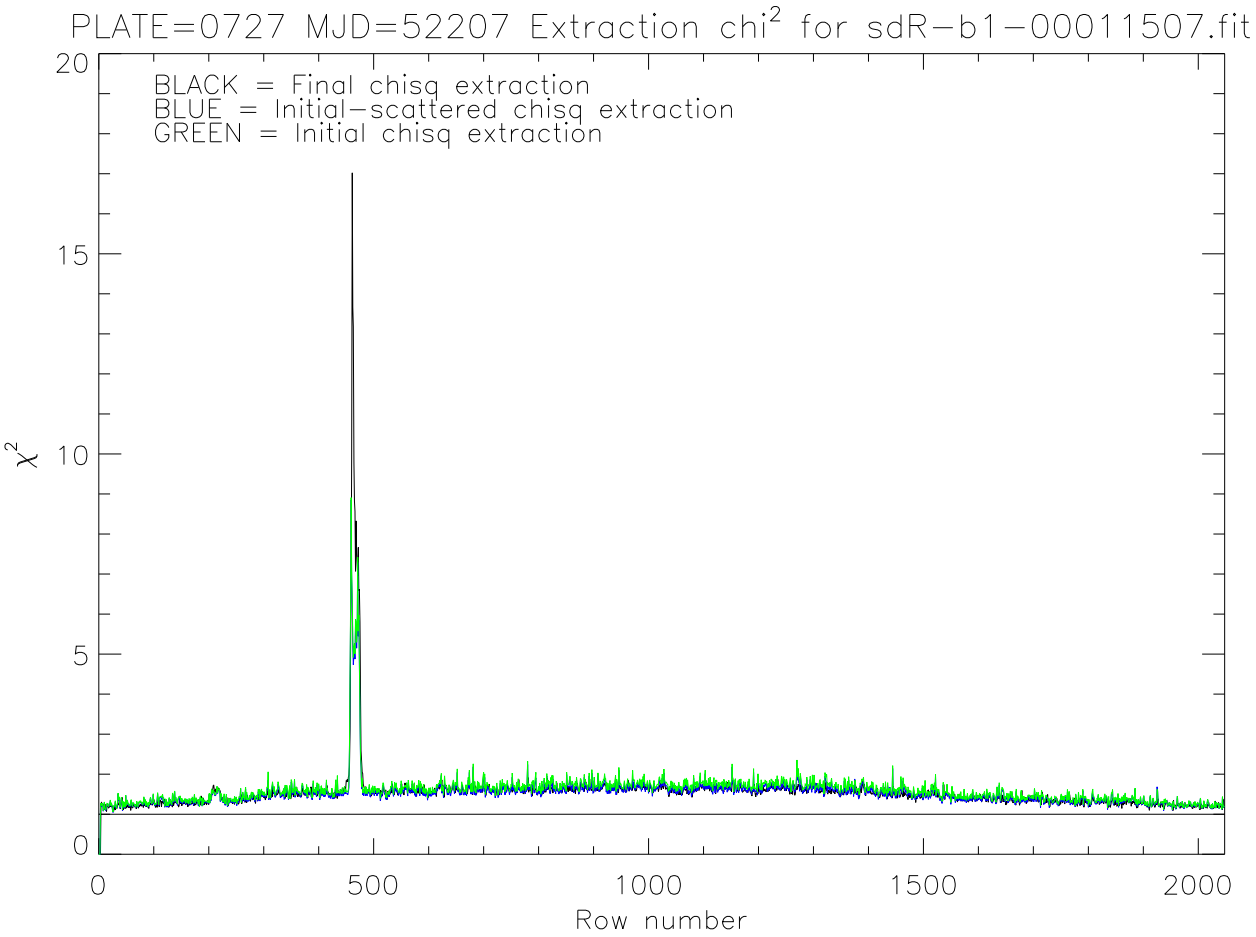

PLATE=0727 MJD=52207 Fiber-Flats for sdR-b1-00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.427
Max value = 1.239
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:12:00 2008

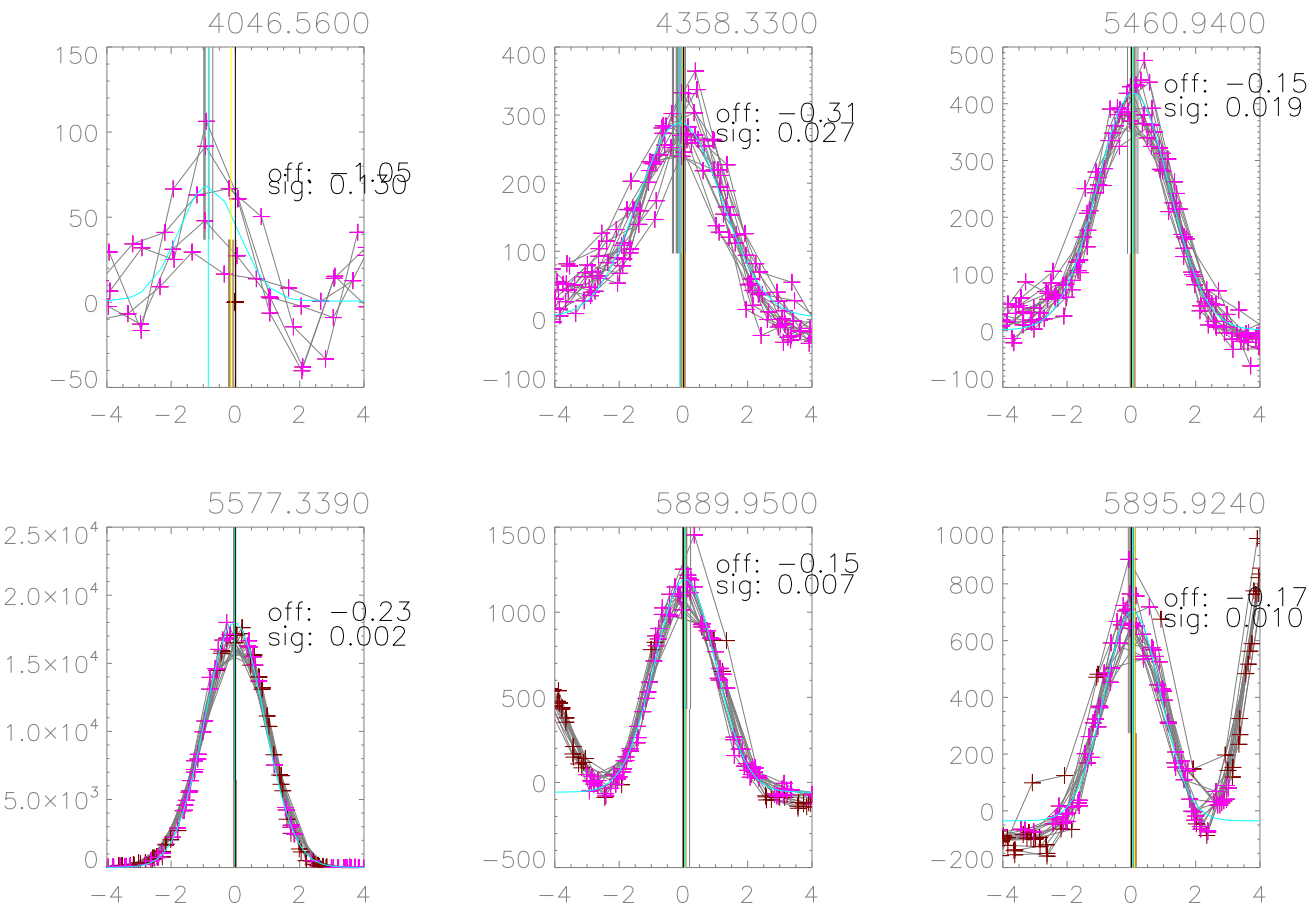

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR−b1−00011507.f
11.36
15.91
20.45
11.36
15.91
15.91
11.36
Y [pix]
X [pix]
0
500
1000
1500
2000

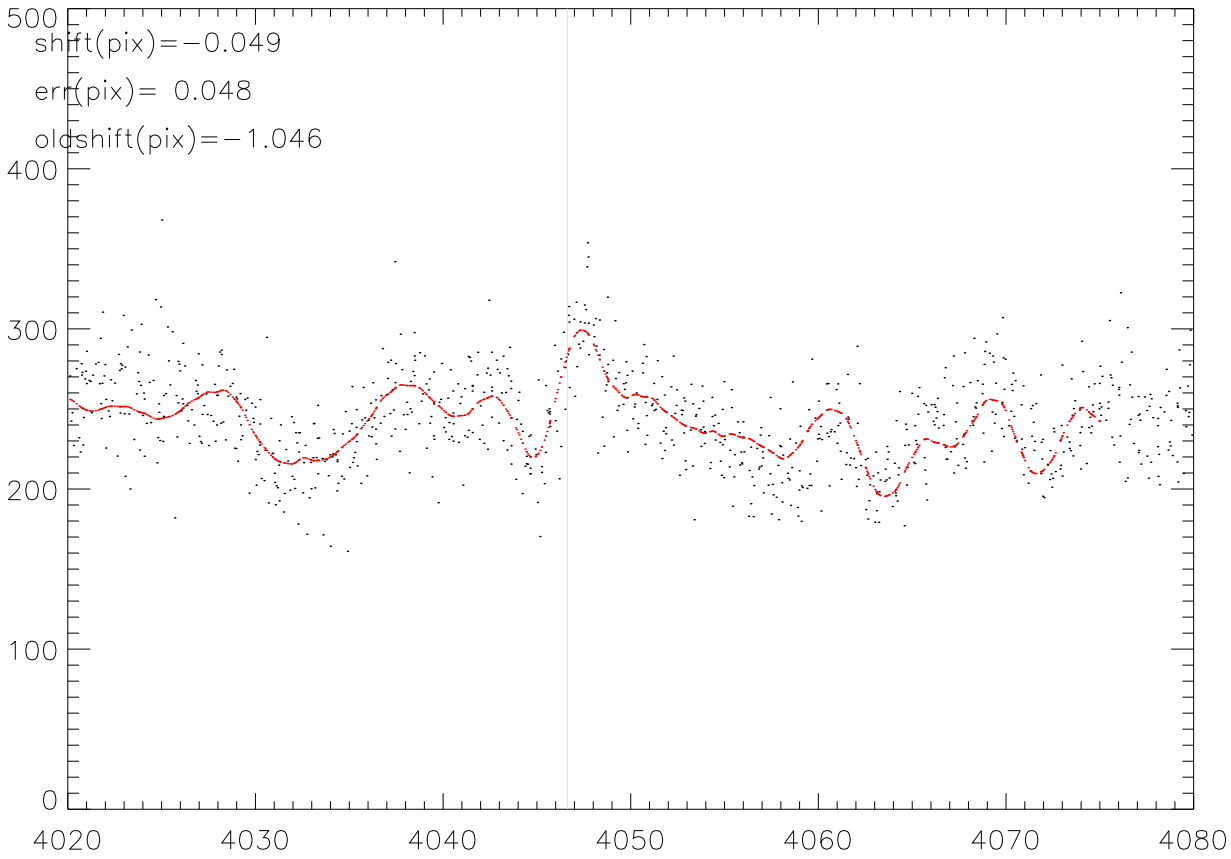

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-b1-00011507.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.191
Max value = 17.065
Mon Feb 25 15:12:57 2008

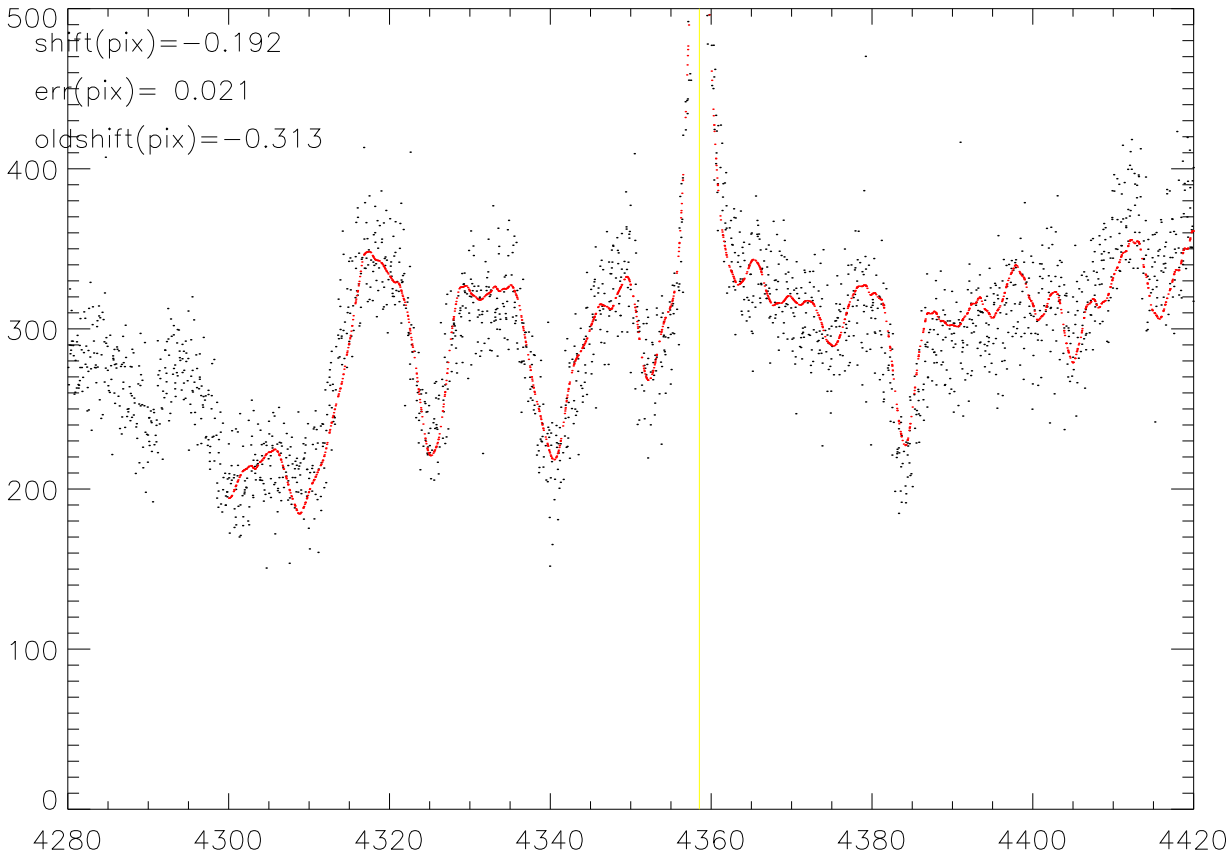

PLATE=0727 MJD=52207 Scattered Light on sdR-b1-00011507.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.8
8.4
10.9
13.5
3.3

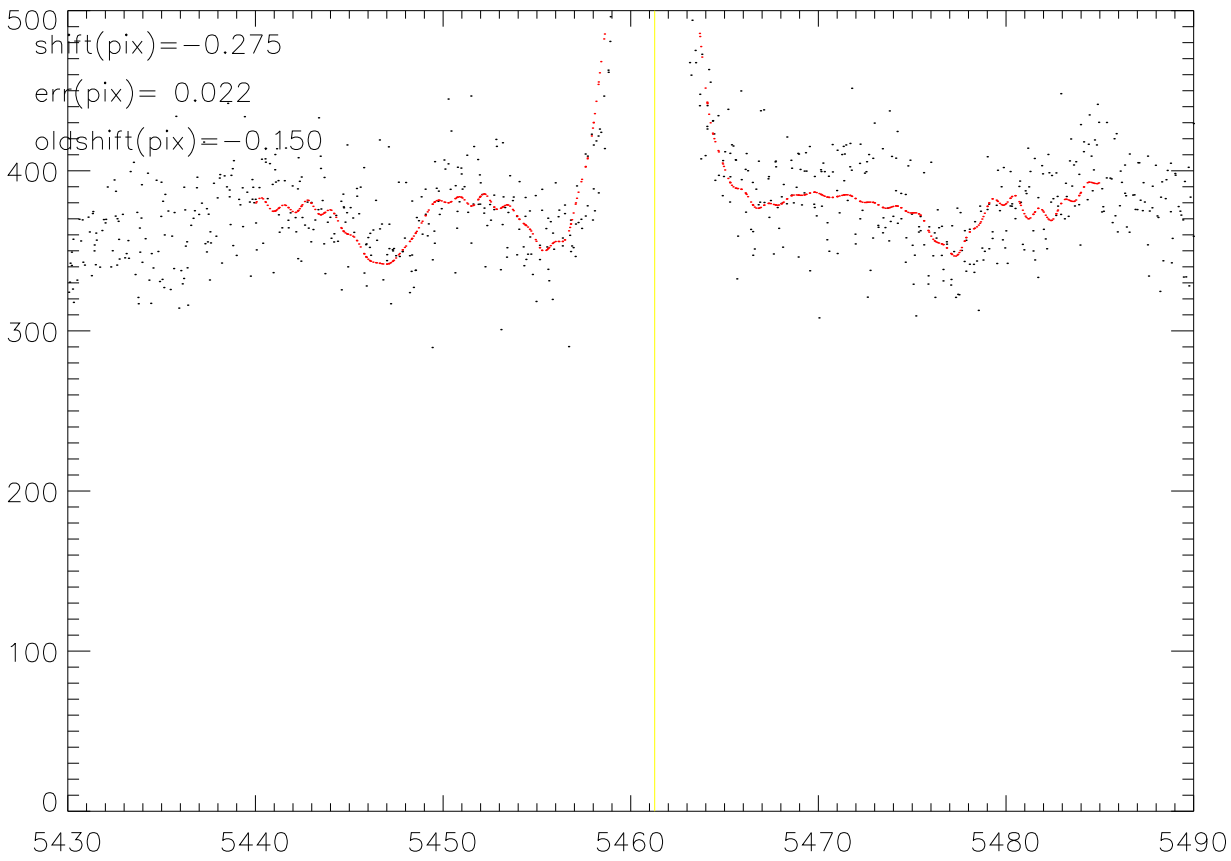

PLATE=0727 MJD=52207 Scattered Light on sdR-b1-00011507.fit
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 4.312
Max value = 8.782
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:15:38 2008

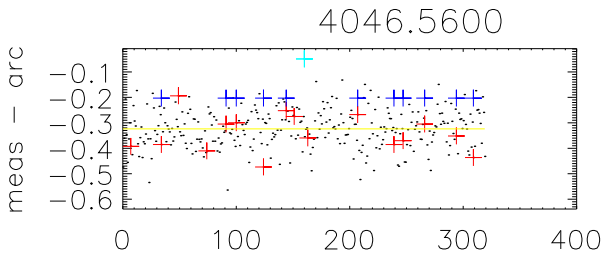

PLATE=0727 MJD=52207 Extraction chi^2 for sdR-b1-00011507.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

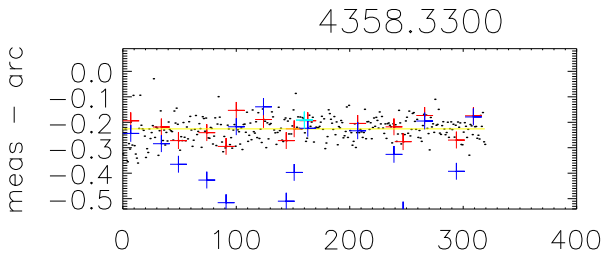

4046.5600
off: −1.05
sig: 0.130
4358.3300
off: −0.31
sig: 0.027
5460.9400
off: −0.15
sig: 0.019
5577.3390
off: −0.23
sig: 0.002
5889.9500
off: −0.15
sig: 0.007
5895.9240
off: −0.17
sig: 0.010

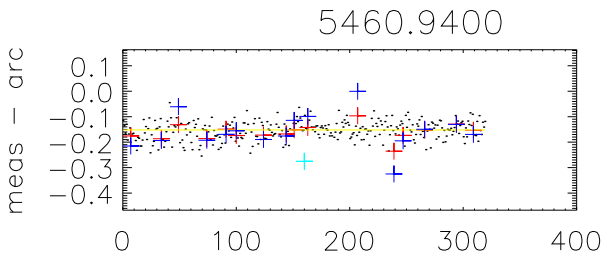

shift(pix)=−0.049
err(pix)= 0.048
oldshift(pix)=−1.046
500
400
300
200
100
0
4020
4030
4040
4050
4060
4070
4080

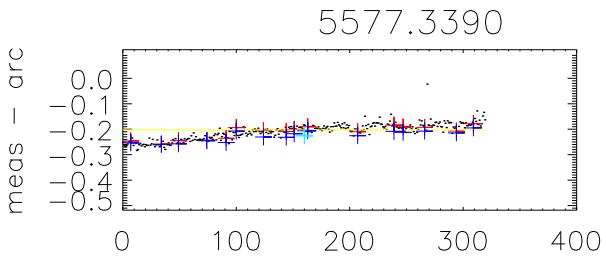

shift(pix)=−0.192
err(pix)= 0.021
oldshift(pix)=−0.313
500
400
300
200
100
0
4280
4300
4320
4340
4360
4380
4400
4420

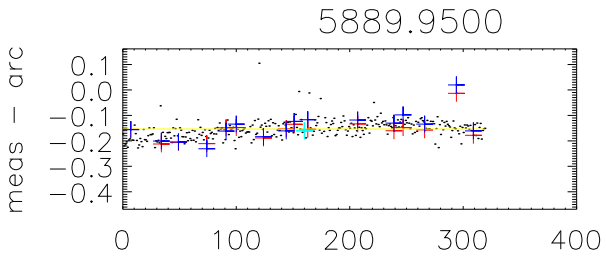

shift(pix)=−0.275
err(pix)= 0.022
oldshift(pix)=−0.150
500
400
300
200
100
0
5430
5440
5450
5460
5470
5480
5490

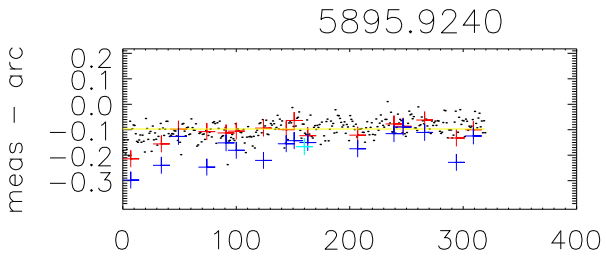

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

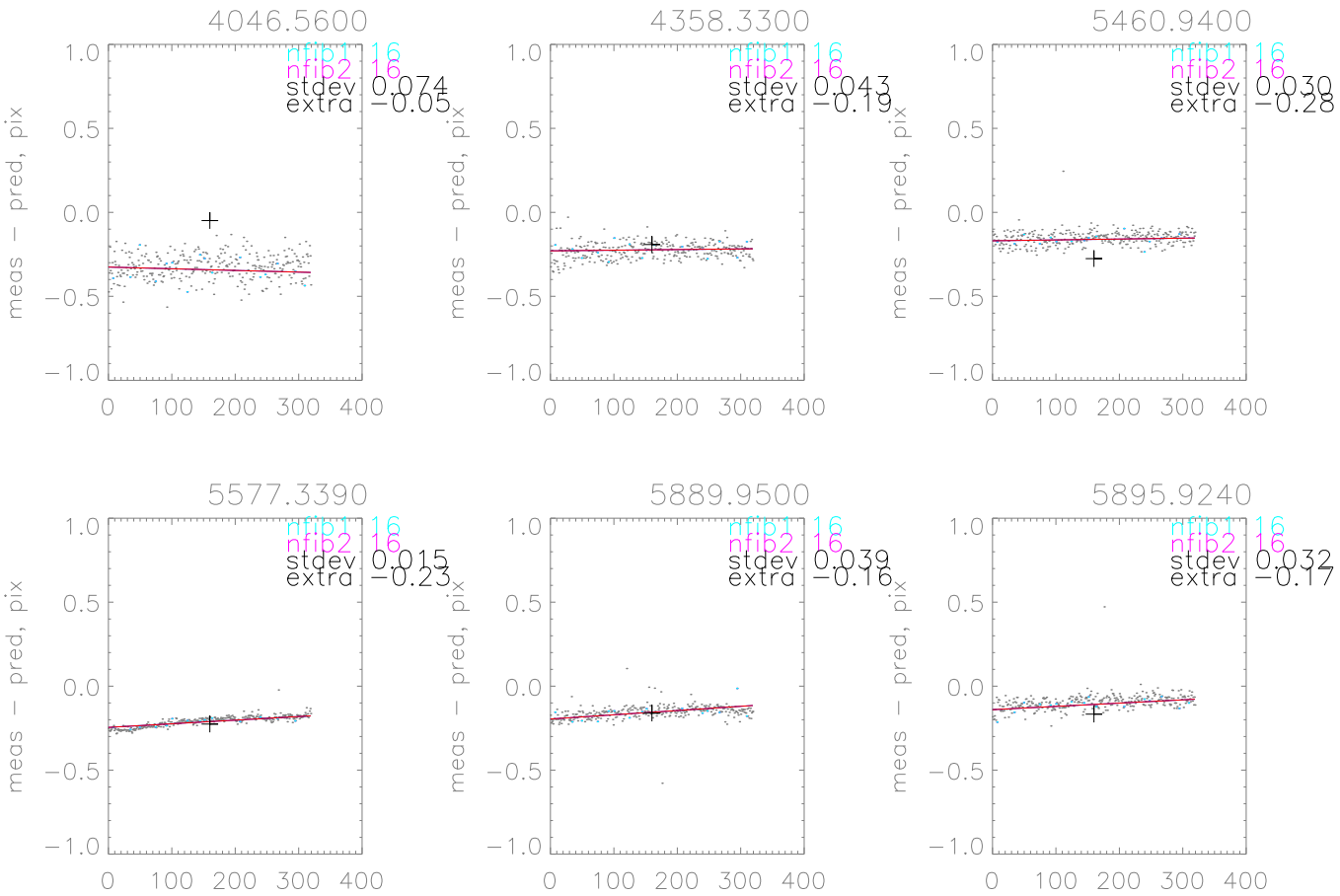

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

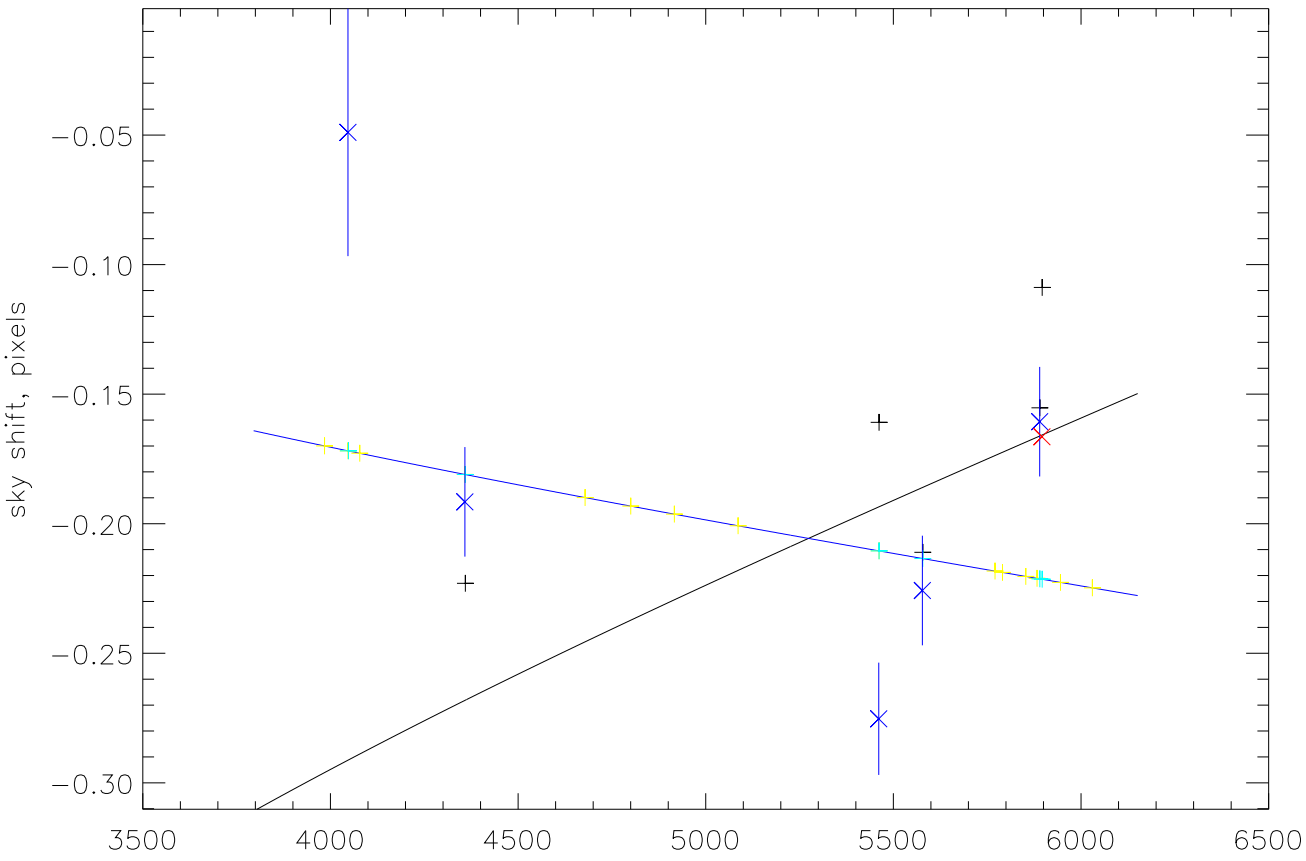

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

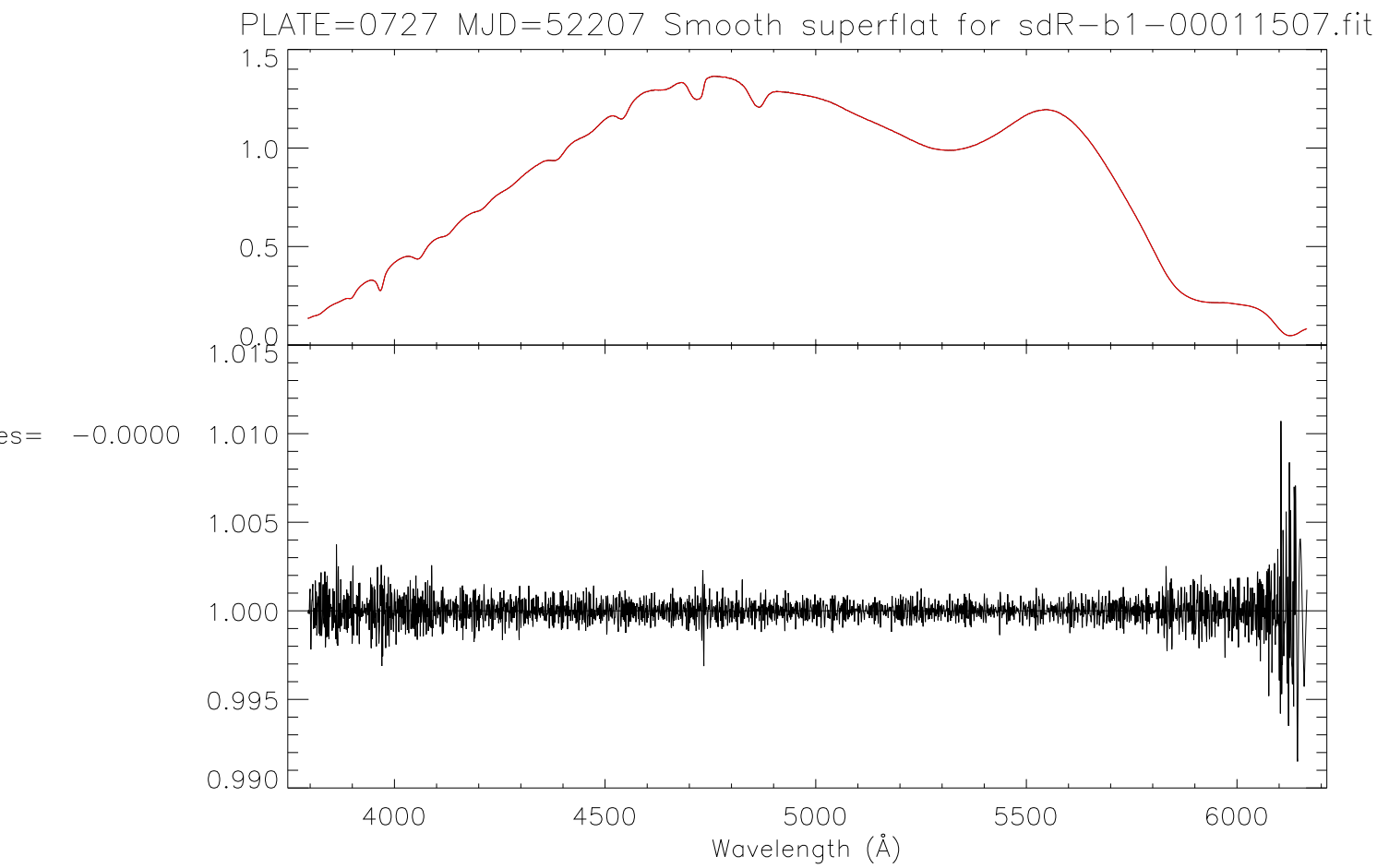

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

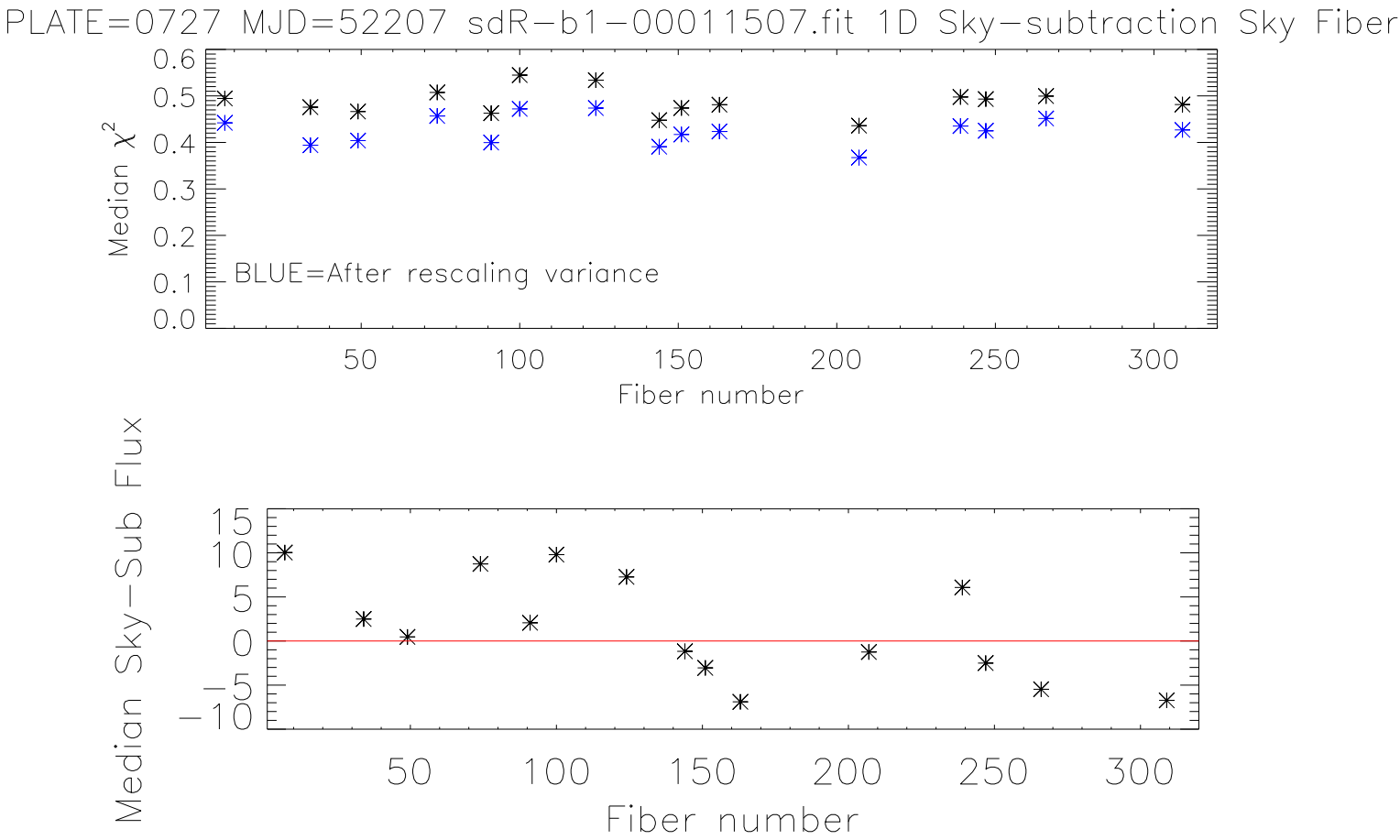

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

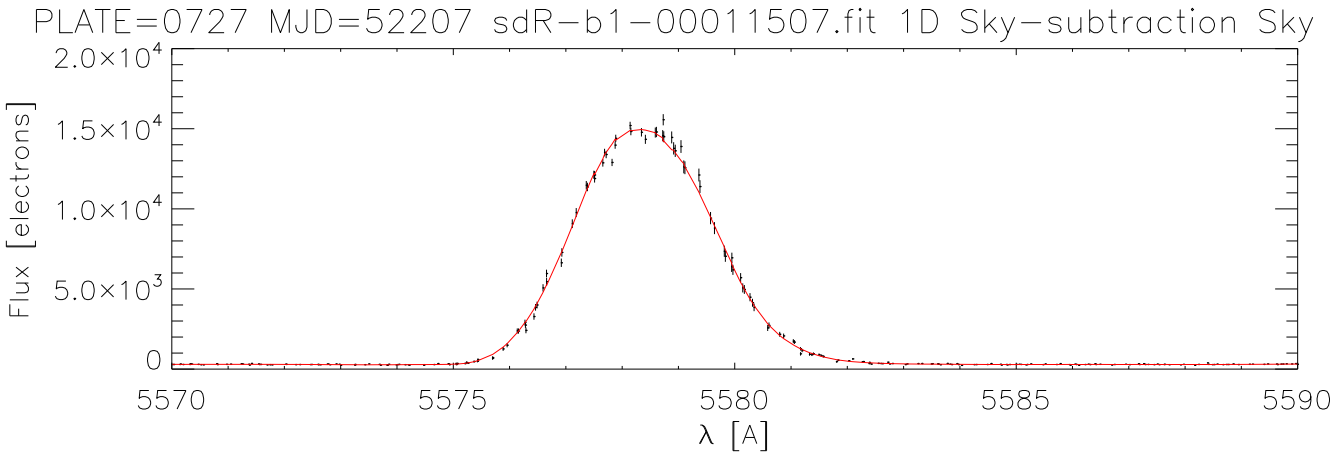

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

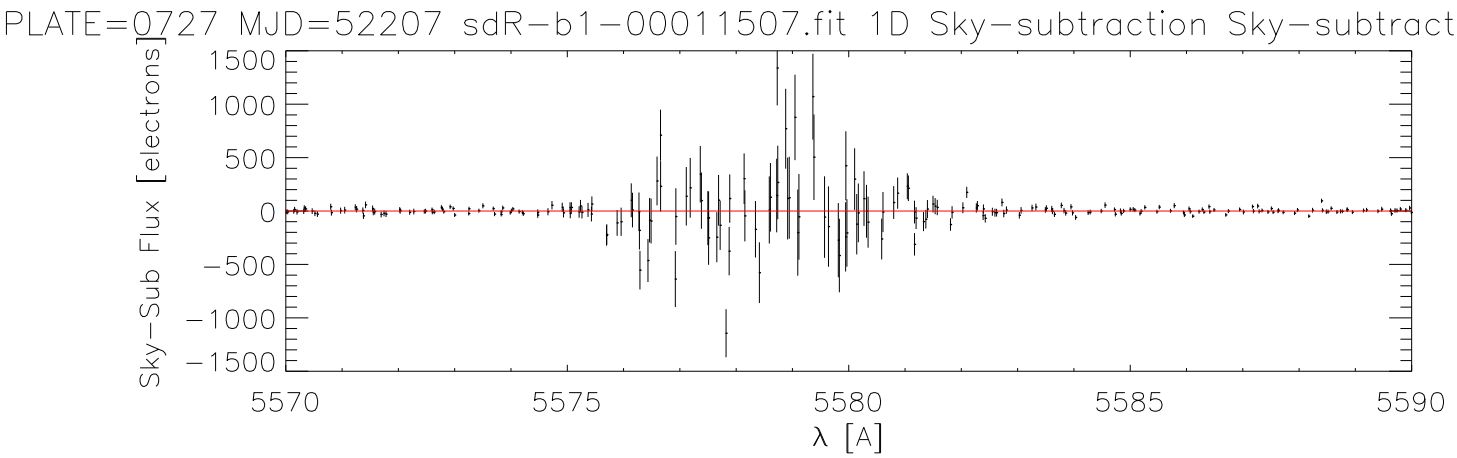

4046.5600
nfib1 16
nfib2 16
stdev 0.074
extra −0.05
4358.3300
nfib1 16
nfib2 16
stdev 0.043
extra −0.19
5460.9400
nfib1 16
nfib2 16
stdev 0.030
extra −0.28
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra −0.23
5889.9500
nfib1 16
nfib2 16
stdev 0.039
extra −0.16
5895.9240
nfib1 16
nfib2 16
stdev 0.032
extra −0.17
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

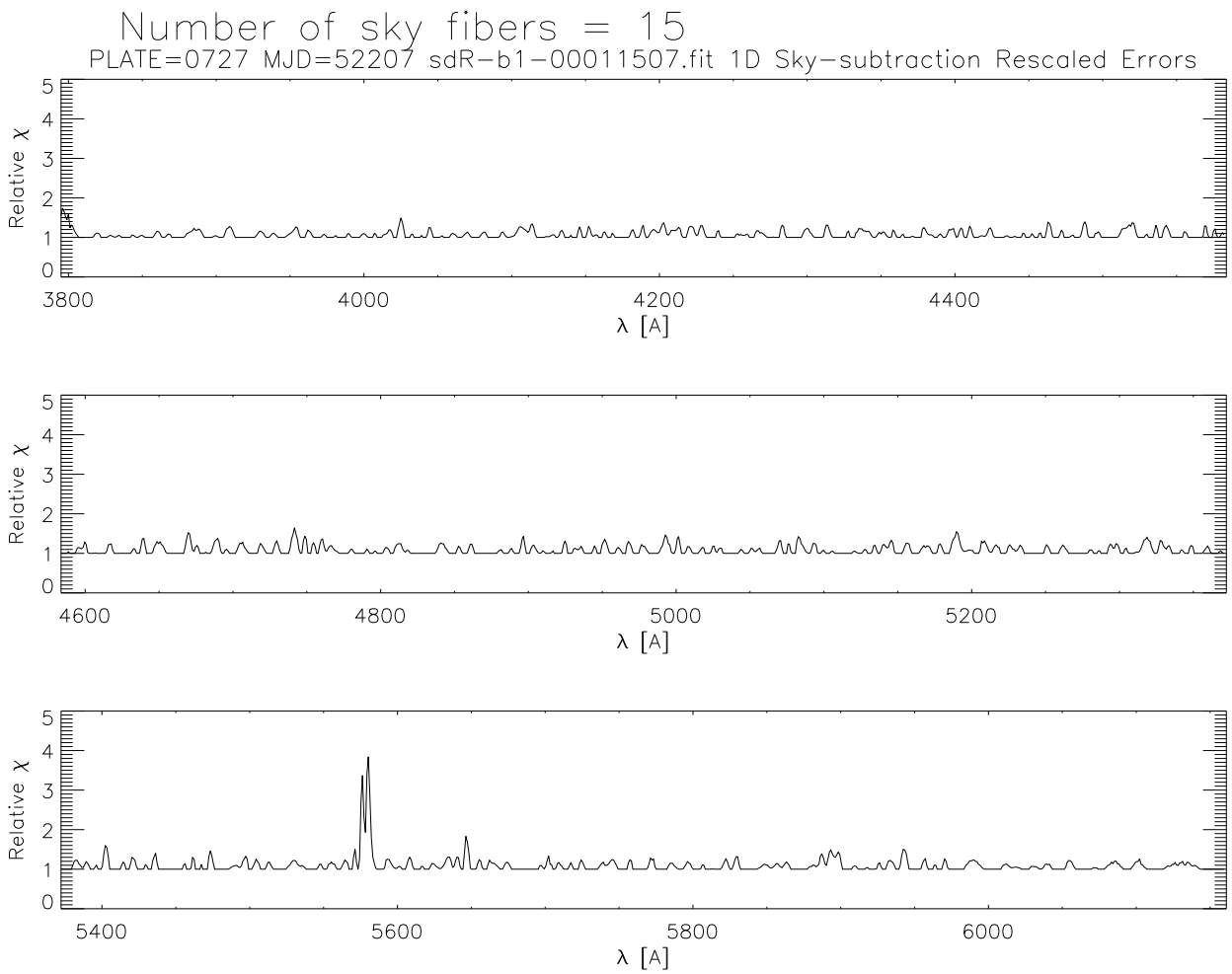

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
3500
4000
4500
5000
5500
6000
6500

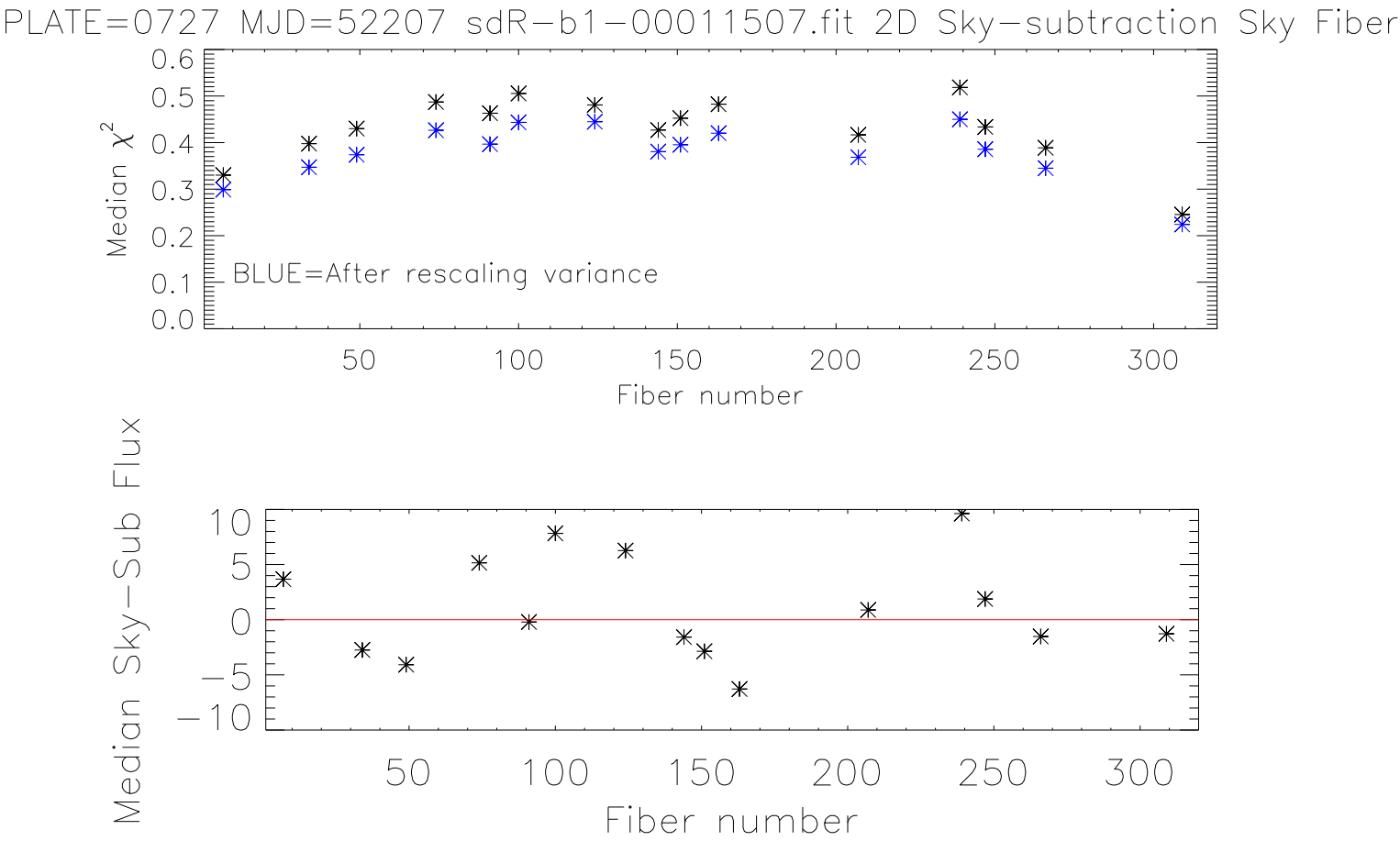

PLATE=0727 MJD=52207 Smooth superflat for sdR-b1-00011507.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

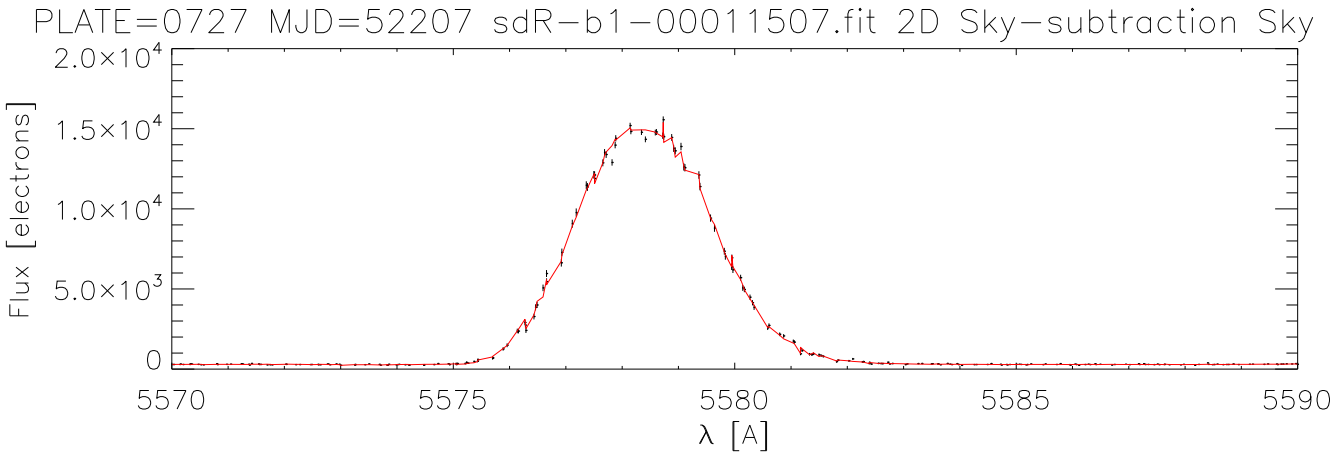

PLATE=0727 MJD=52207 sdR-b1-00011507.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

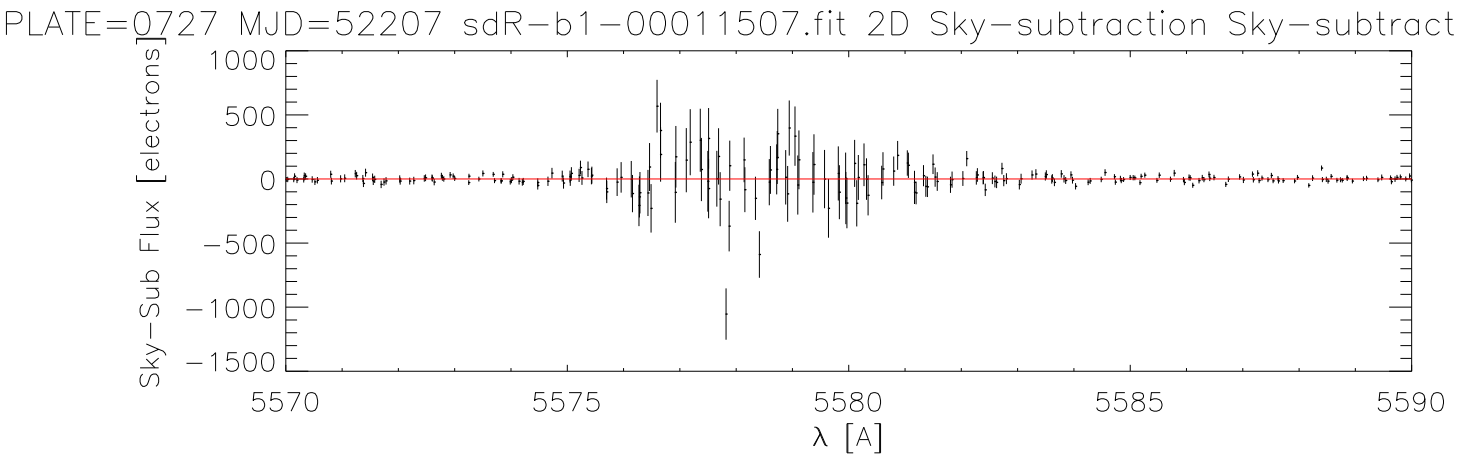

PLATE=0727 MJD=52207 sdR-b1-00011507.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

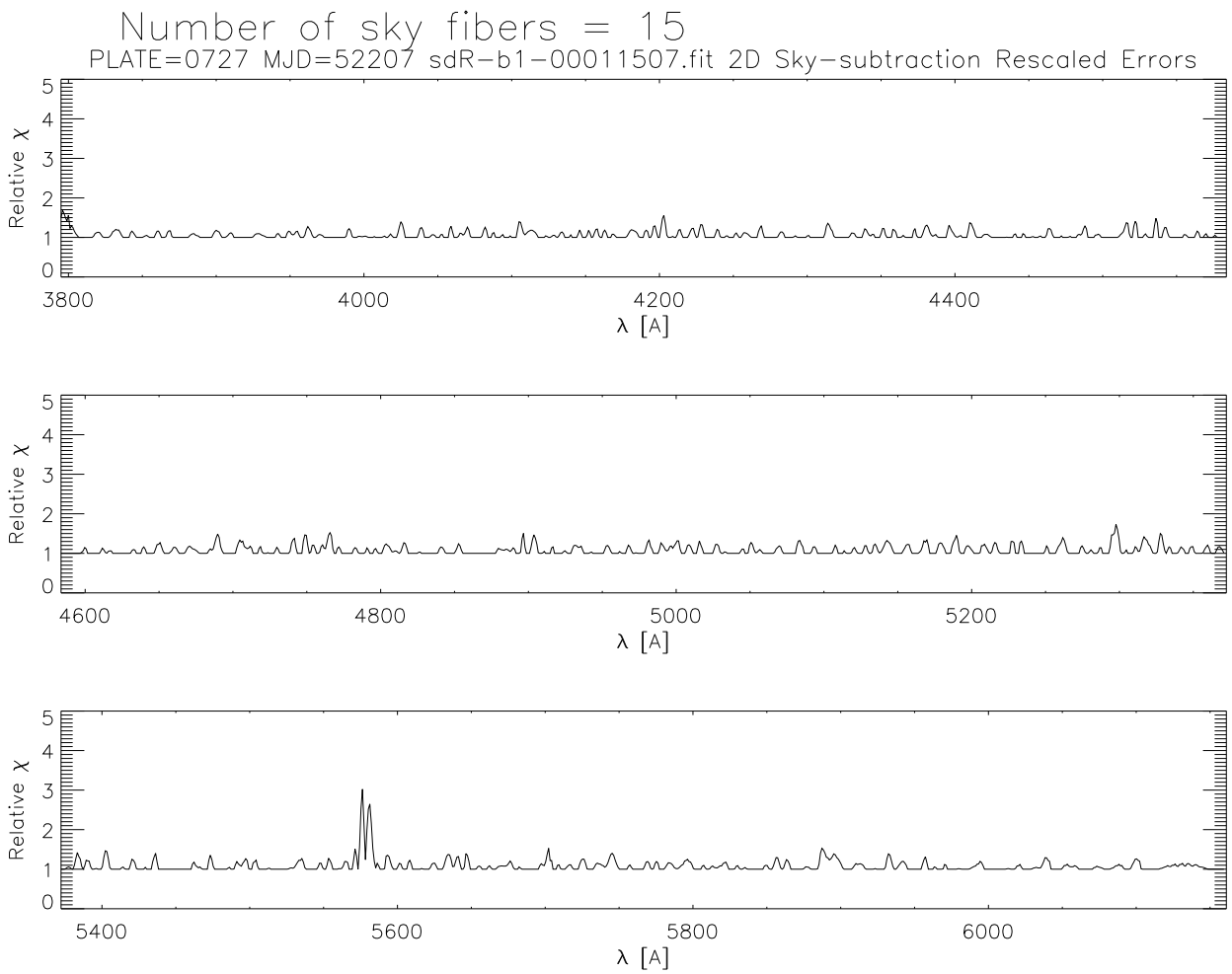

PLATE=0727 MJD=52207 sdR-b1-00011507.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
−1500
5570
5575
5580
5585
5590
λ [A]

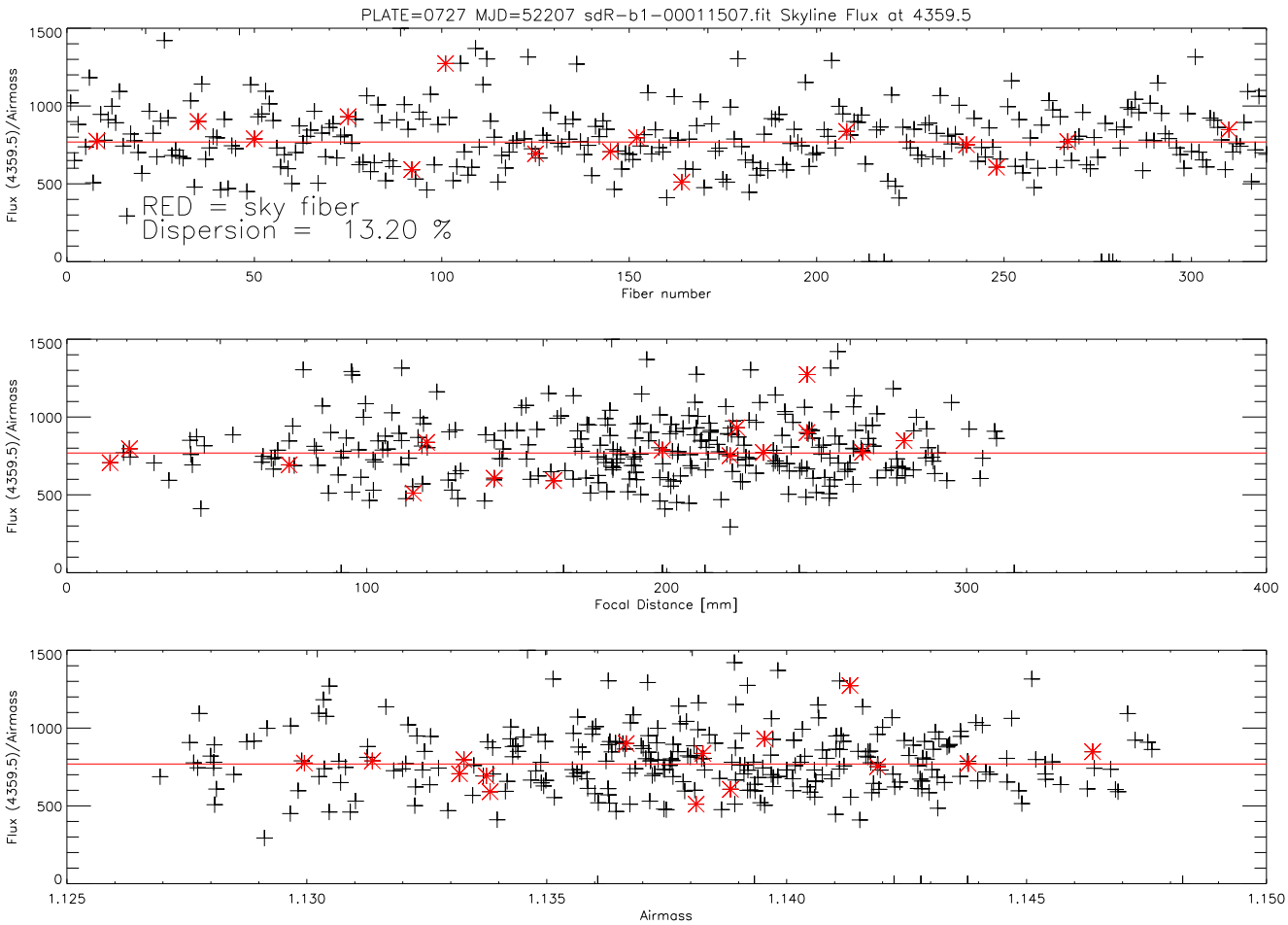

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b1-00011507.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

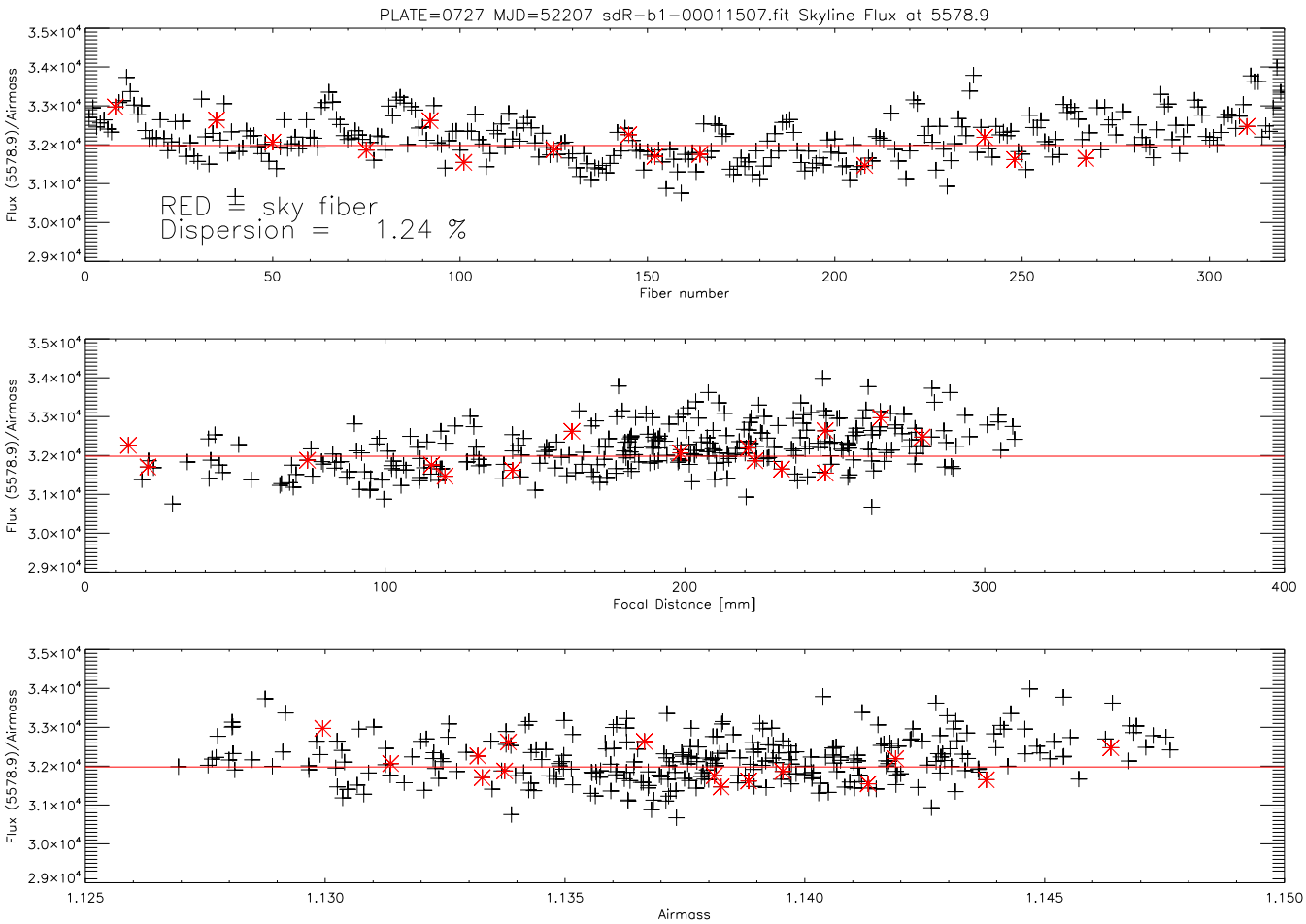

PLATE=0727 MJD=52207 sdR-b1-00011507.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

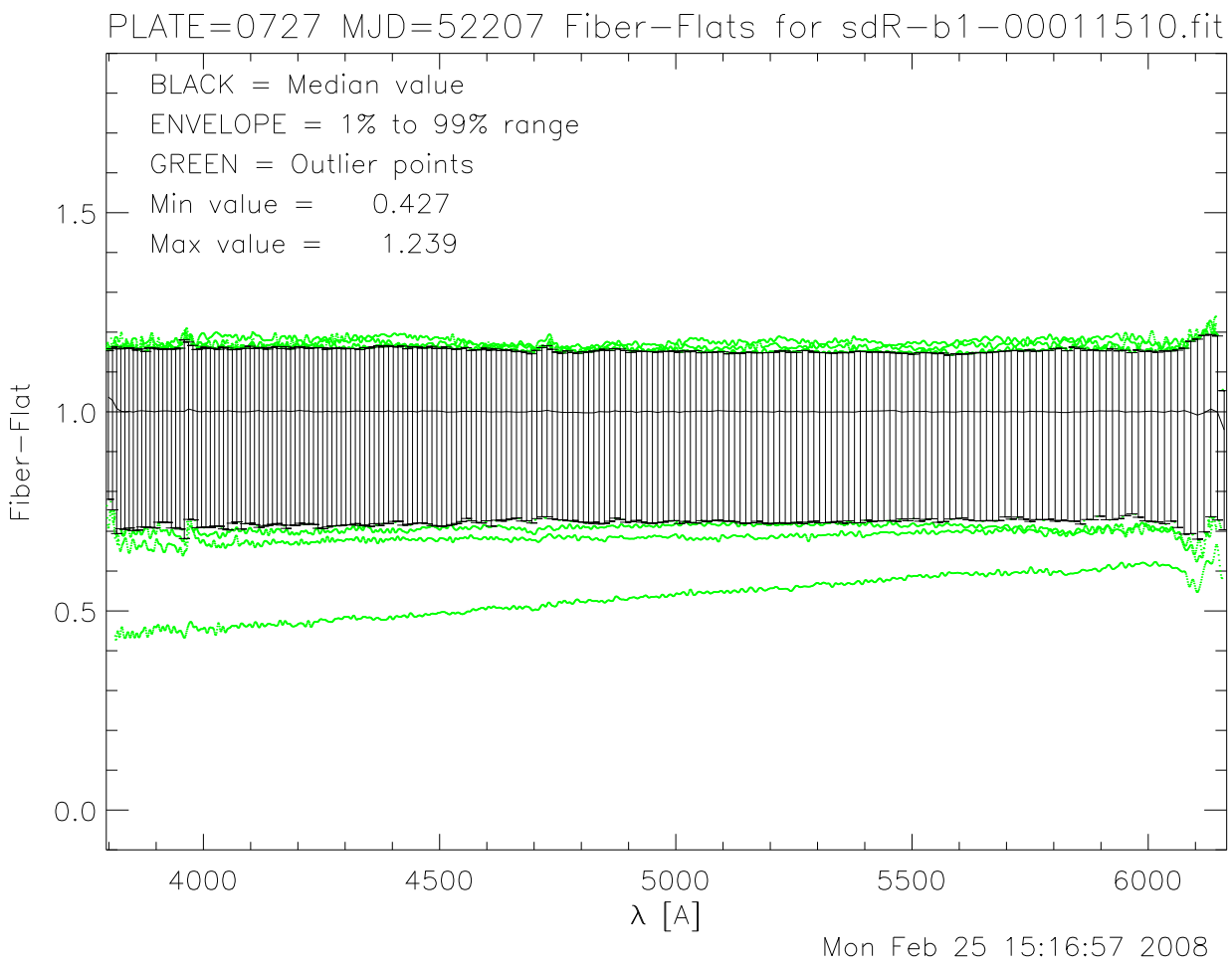

PLATE=0727 MJD=52207 sdR-b1-00011507.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

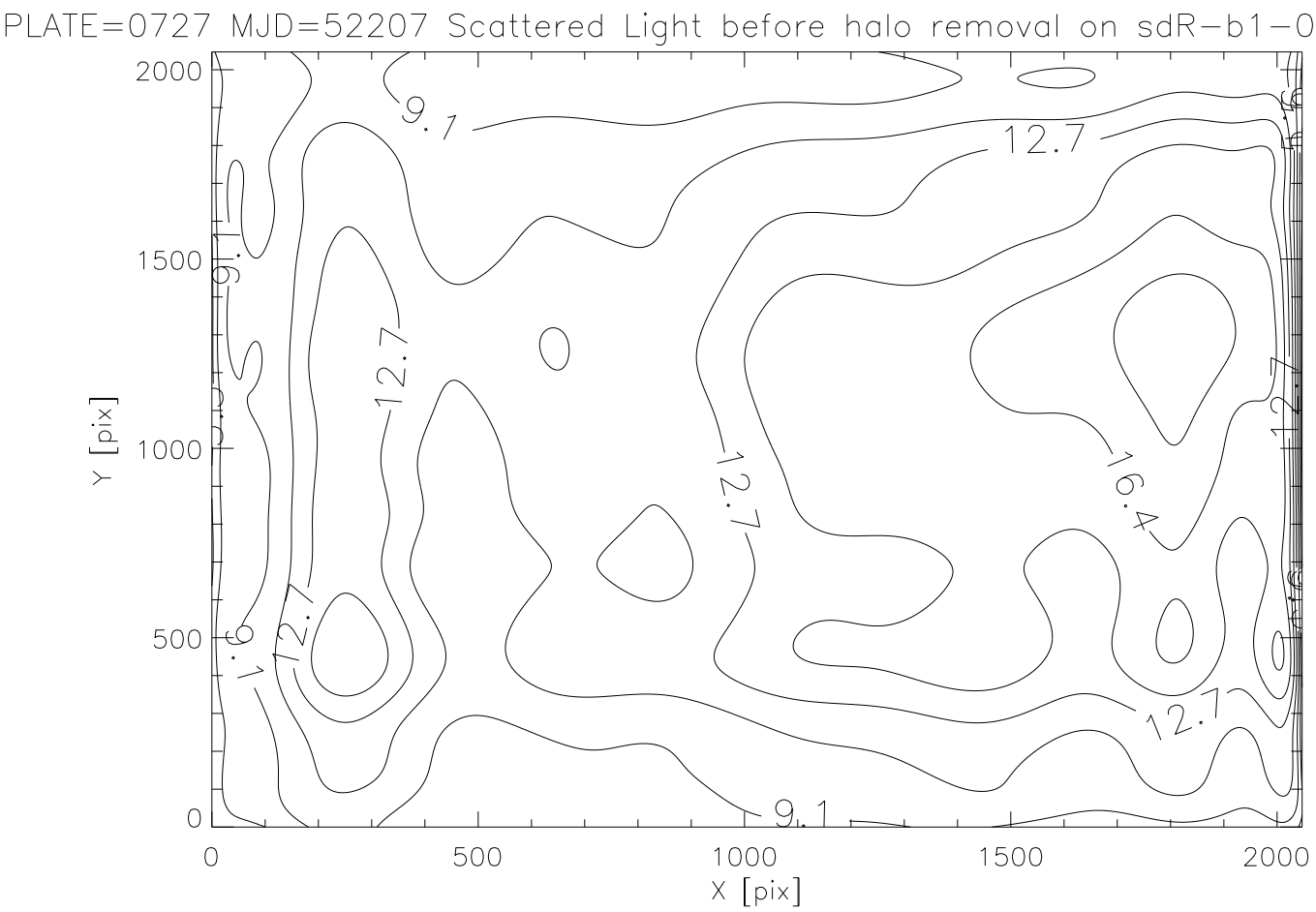

PLATE=0727 MJD=52207 sdR-b1-00011507.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
−500
−1000
−1500
5570
5575
5580
5585
5590
λ [A]

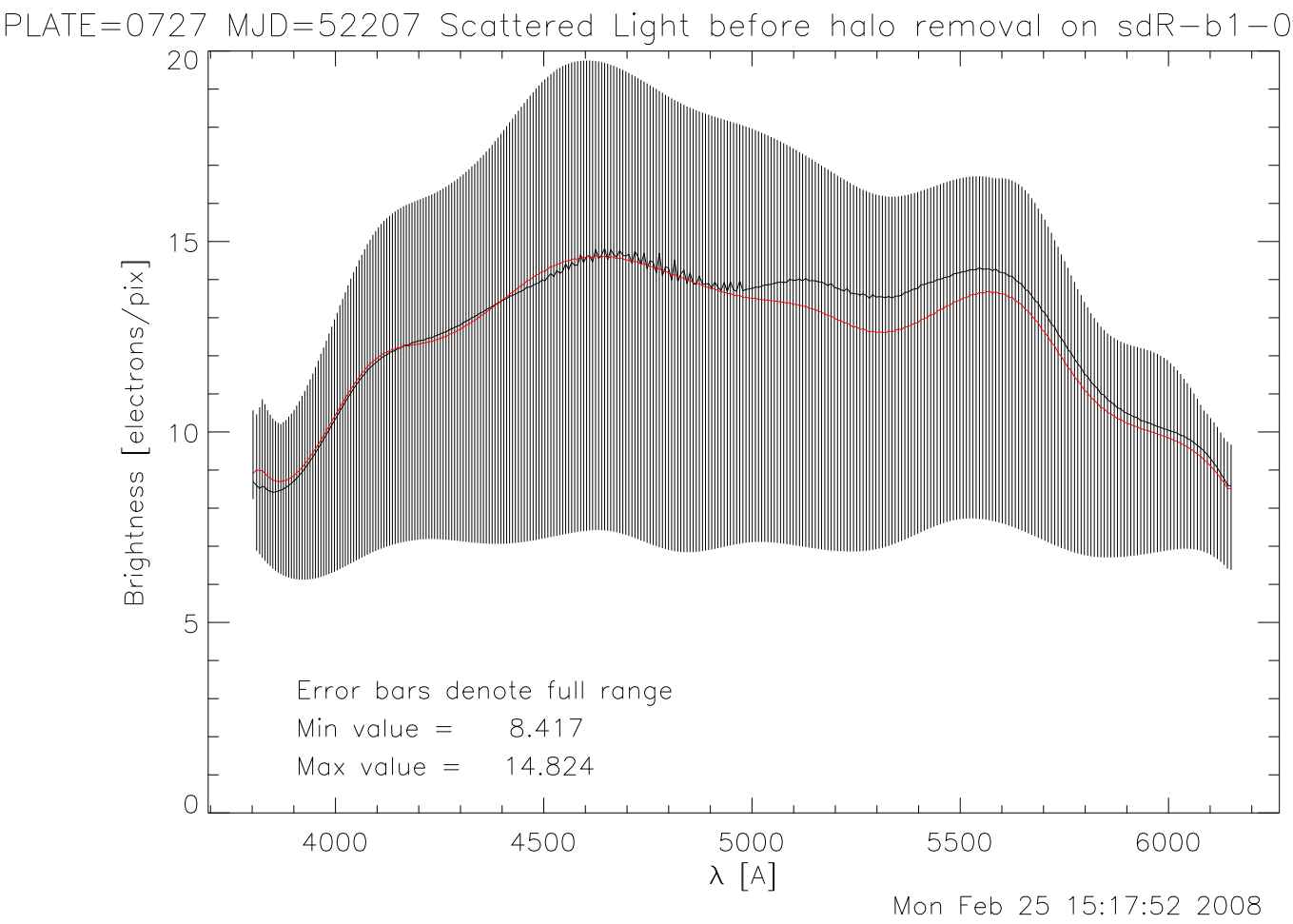

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b1-00011507.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

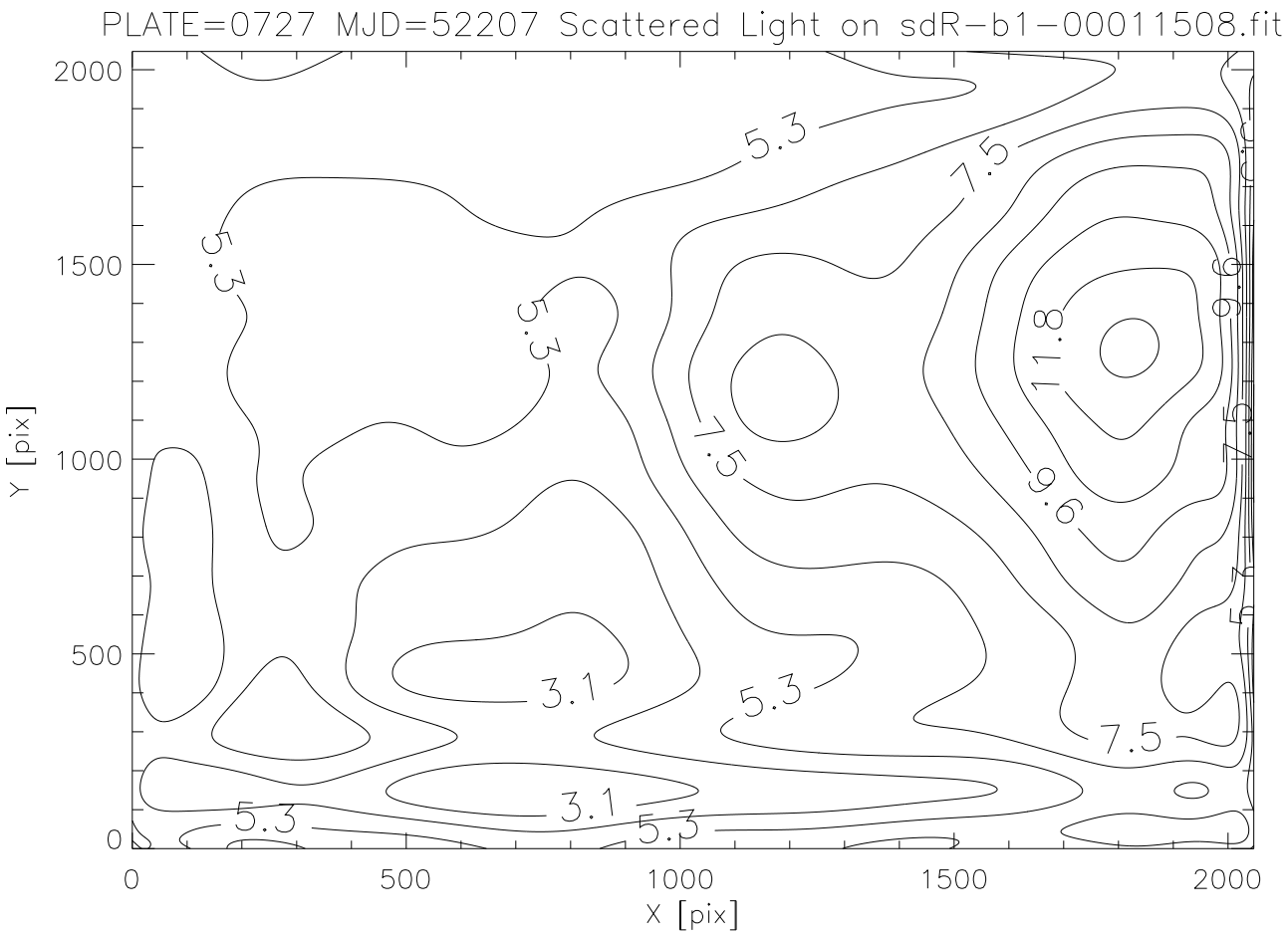

PLATE=0727 MJD=52207 sdR-b1-00011507.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.20 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

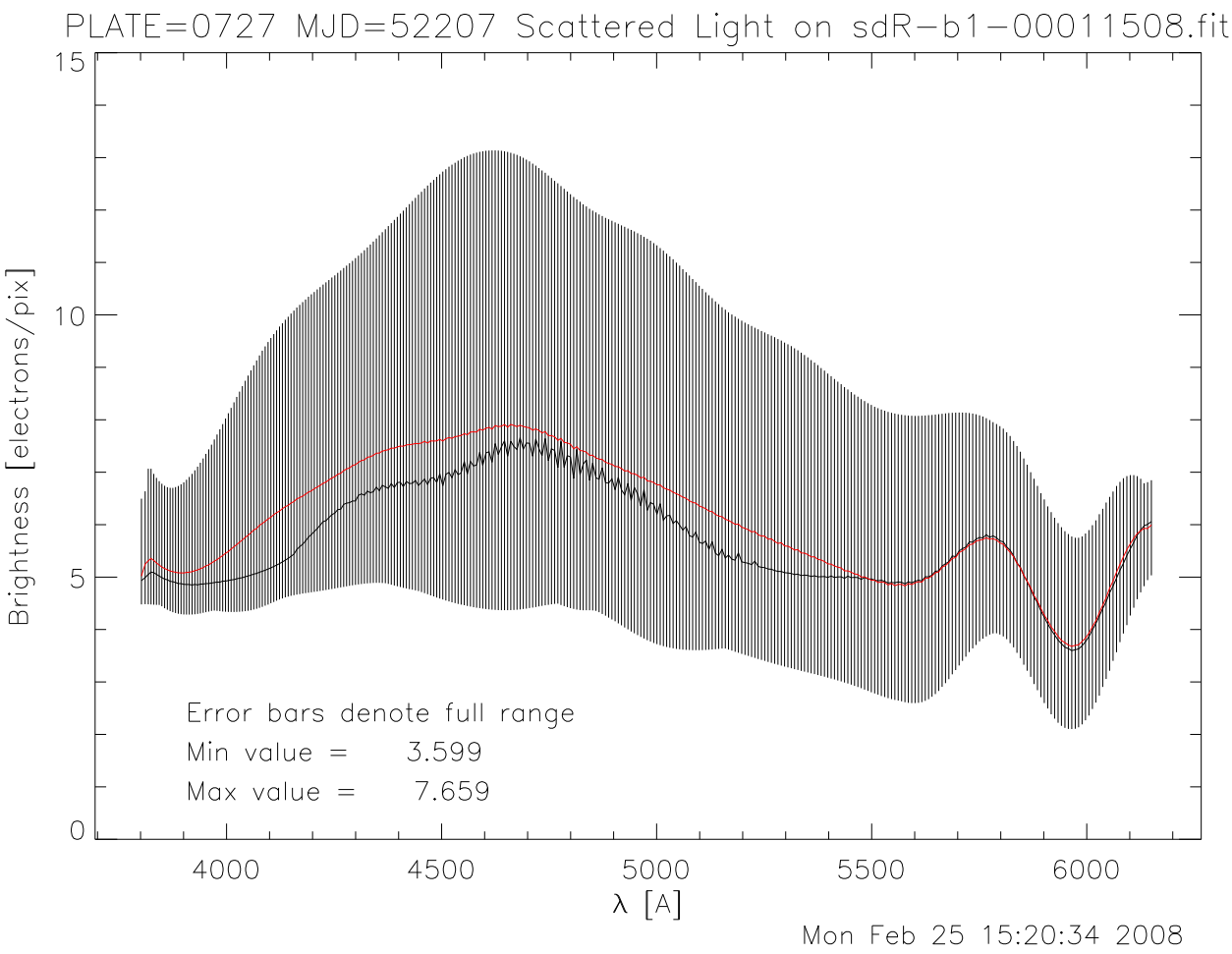

PLATE=0727 MJD=52207 sdR-b1-00011507.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED ± sky fiber
Dispersion = 1.24 %
Fiber number
Focal Distance [mm]
Airmass

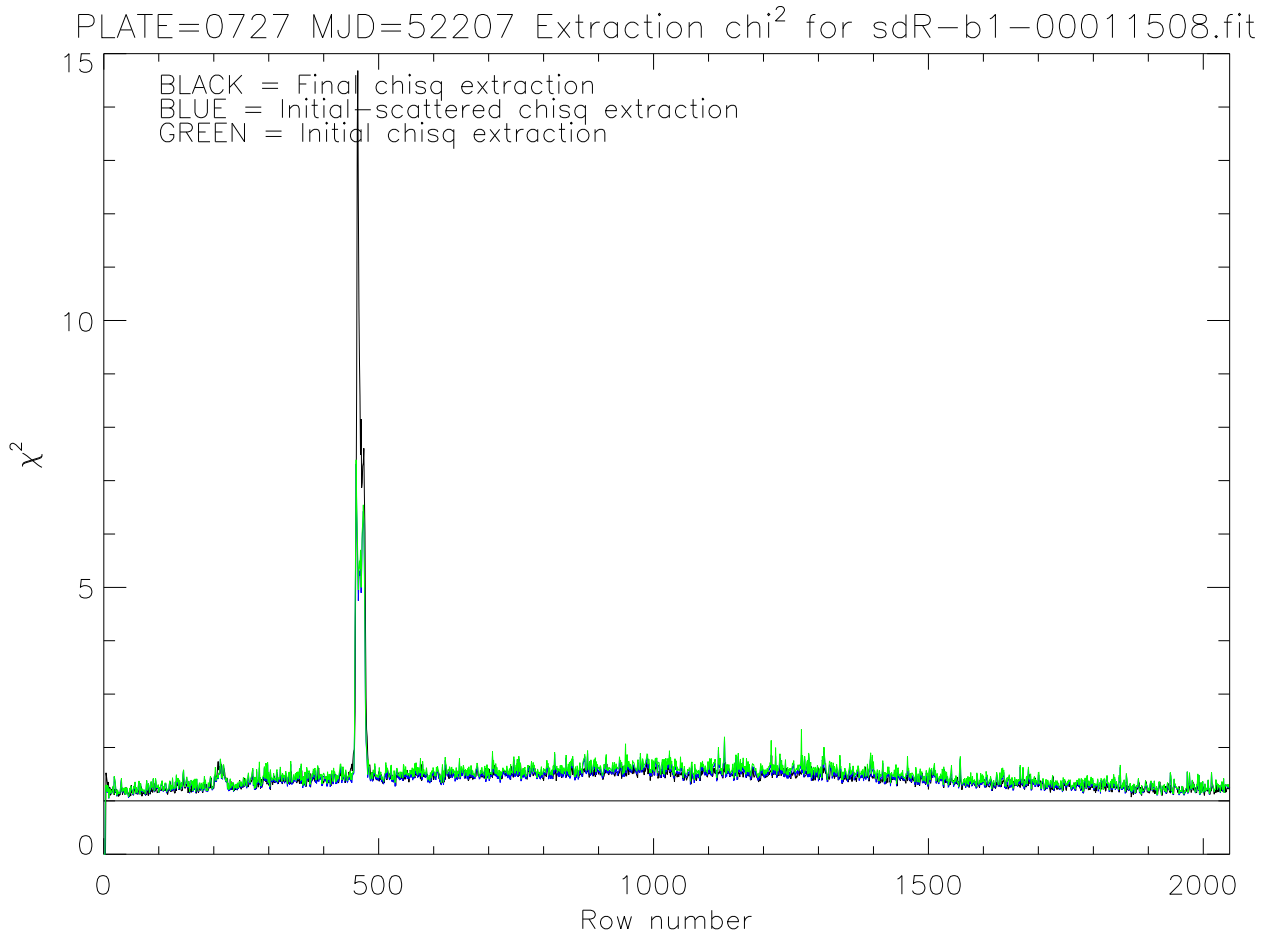

PLATE=0727 MJD=52207 Fiber−Flats for sdR−b1−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.427
Max value = 1.239
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:16:57 2008

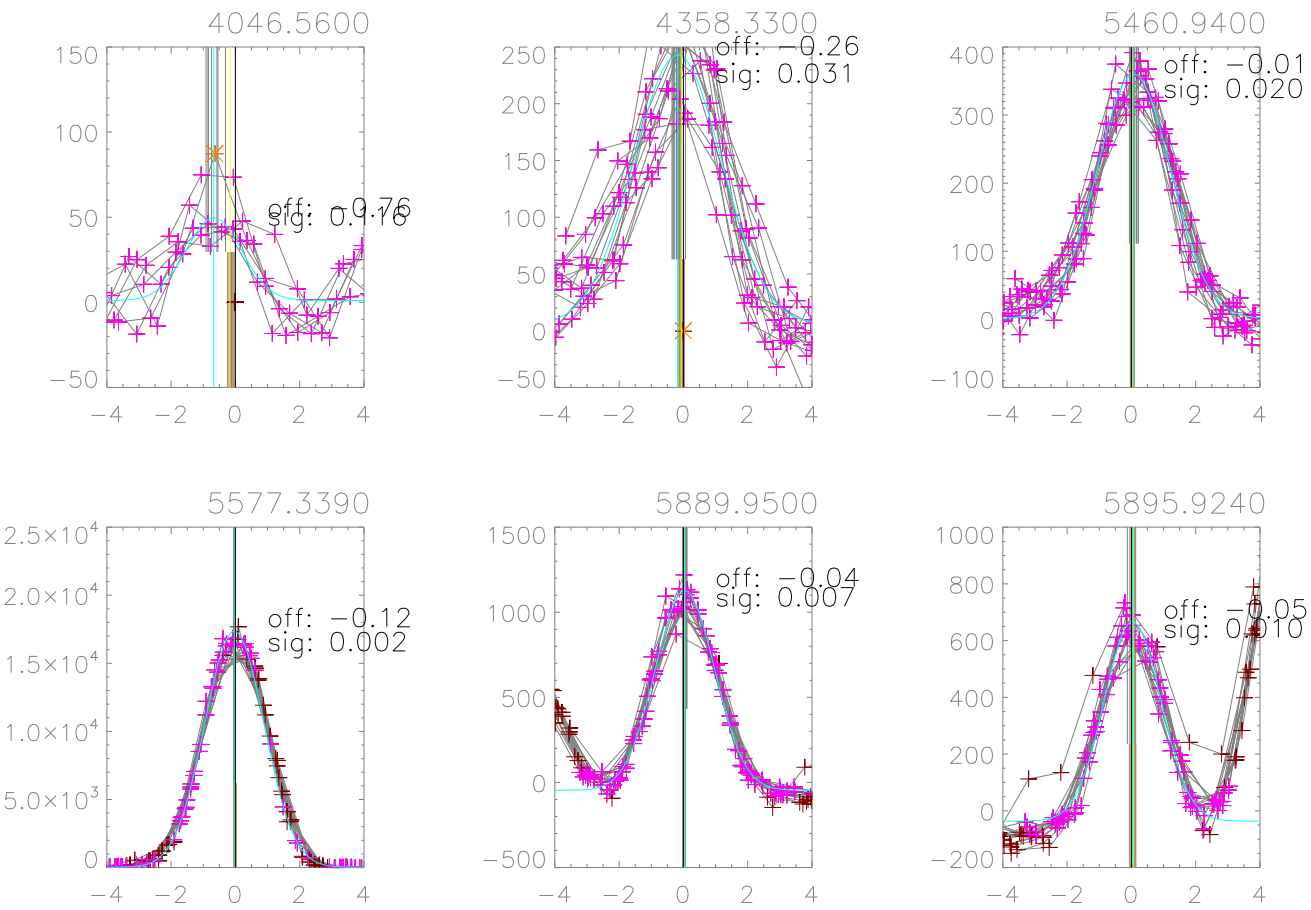

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR−b1−00011508.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
12.7
16.4

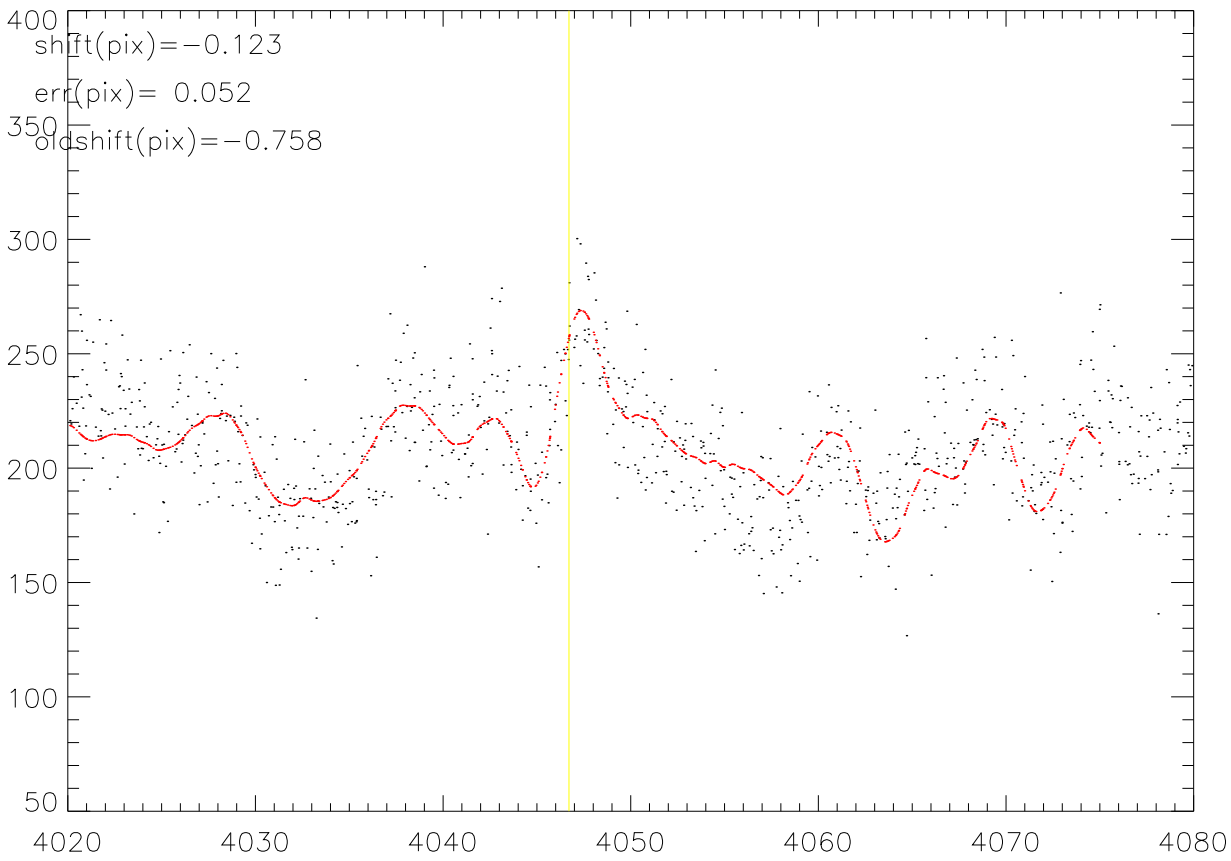

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-b1-00011508.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 8.417
Max value = 14.824
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:17:52 2008

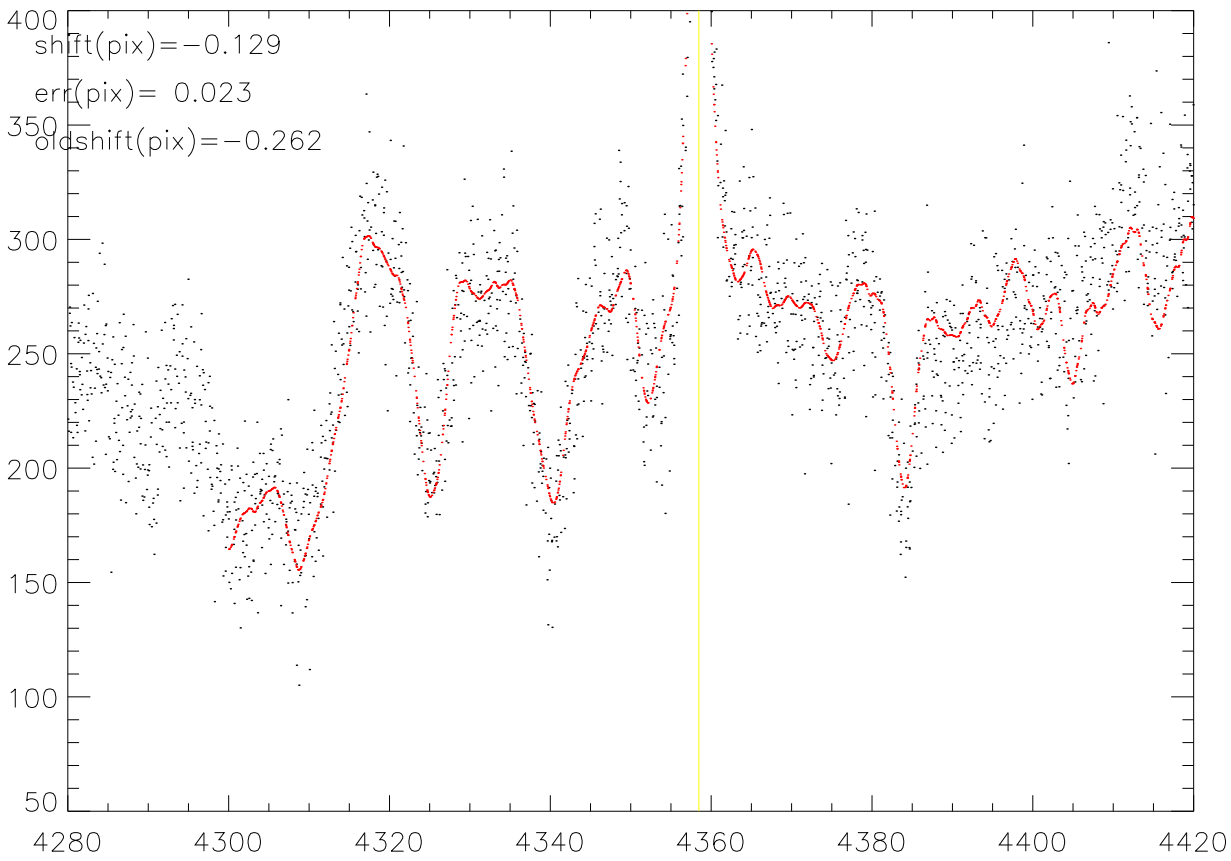

PLATE=0727 MJD=52207 Scattered Light on sdR-b1-00011508.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.3
7.5
11.8
9.6
3.1

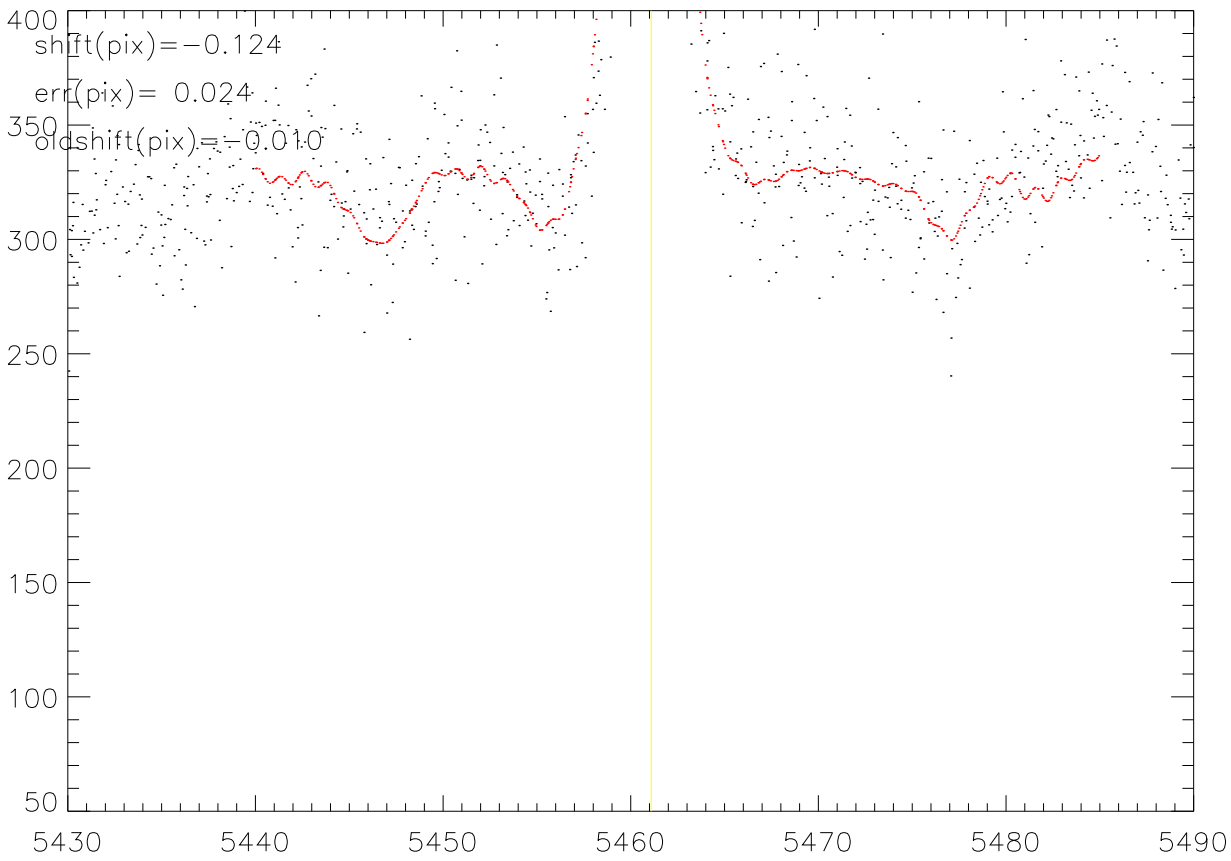

PLATE=0727 MJD=52207 Scattered Light on sdR-b1-00011508.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.599
Max value = 7.659
Mon Feb 25 15:20:34 2008

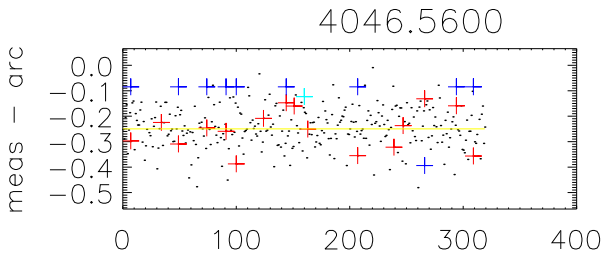

PLATE=0727 MJD=52207 Extraction chi^2 for sdR-b1-00011508.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
15
10
5
0
0
500
1000
1500
2000
Row number

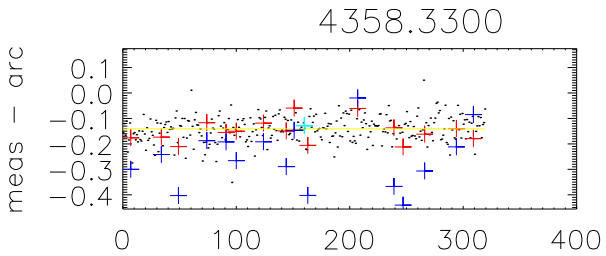

4046.5600
off: −0.76
sig: 0.178
4358.3300
off: −0.26
sig: 0.031
5460.9400
off: −0.01
sig: 0.020
5577.3390
off: −0.12
sig: 0.002
5889.9500
off: −0.04
sig: 0.007
5895.9240
off: −0.05
sig: 0.010

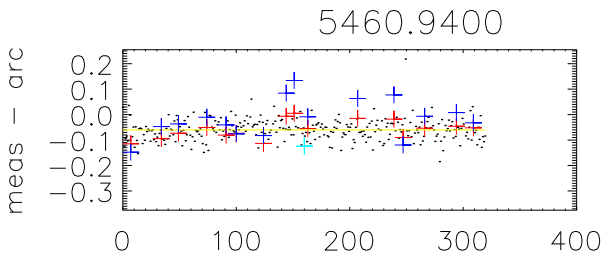

shift(pix)=−0.123
err(pix)= 0.052
oldshift(pix)=−0.758
400
350
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

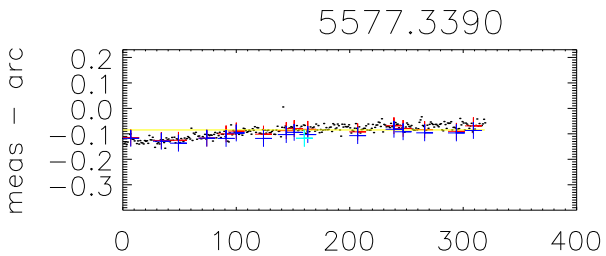

shift(pix)=−0.129
err(pix)= 0.023
oldshift(pix)=−0.262
400
350
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

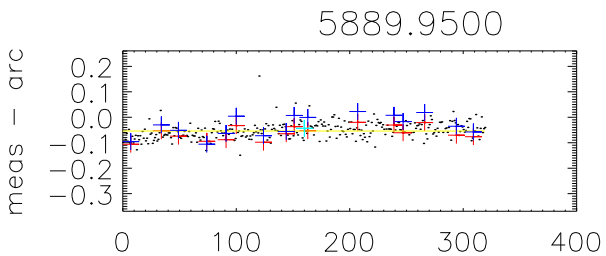

shift(pix)=−0.124
err(pix)= 0.024
oldshift(pix)=−0.010
400
350
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

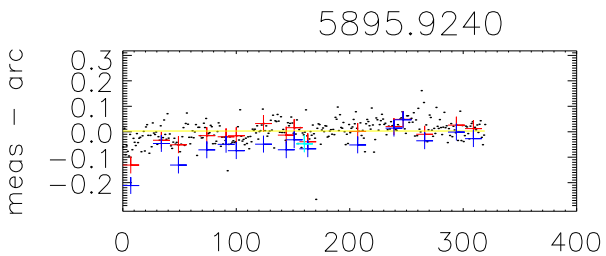

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

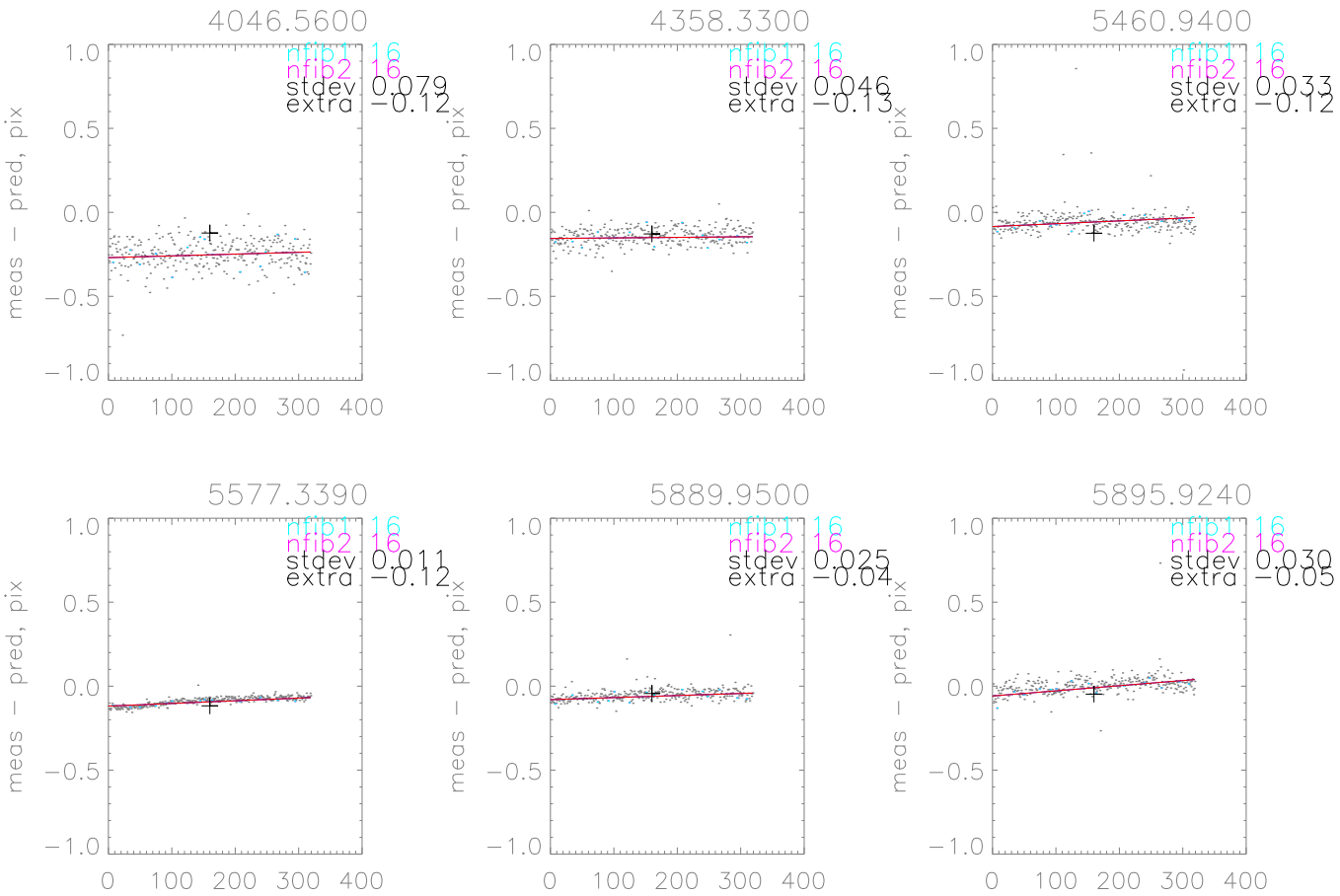

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

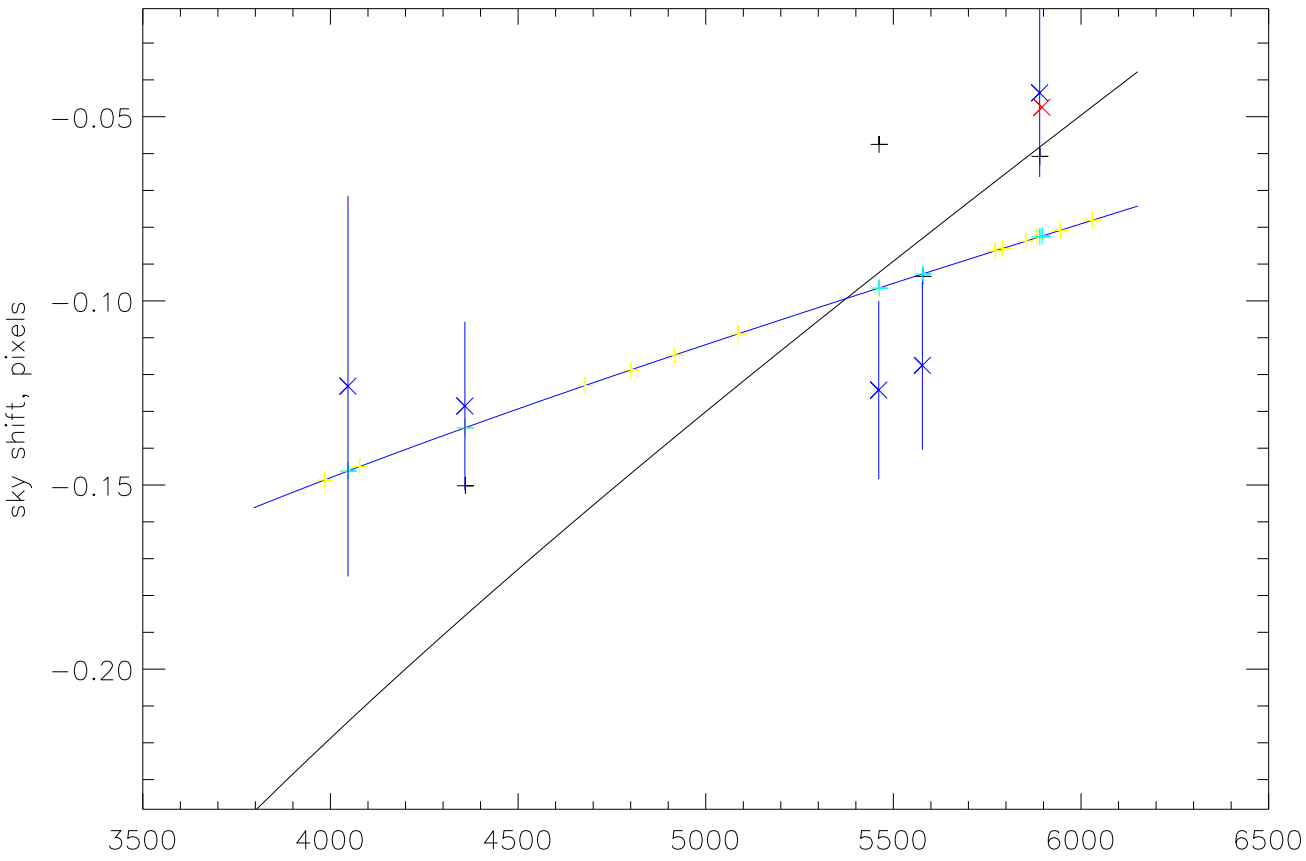

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

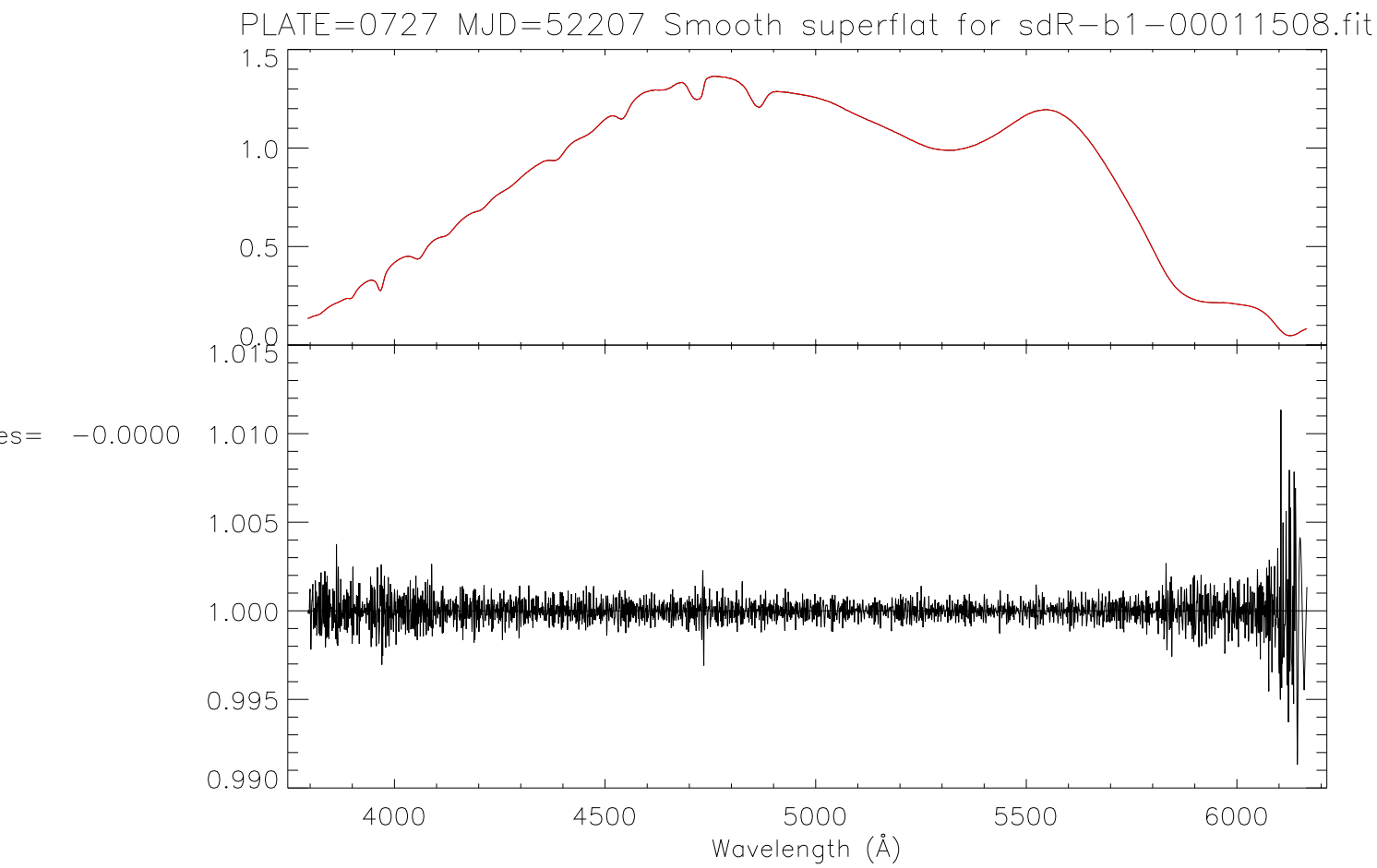

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

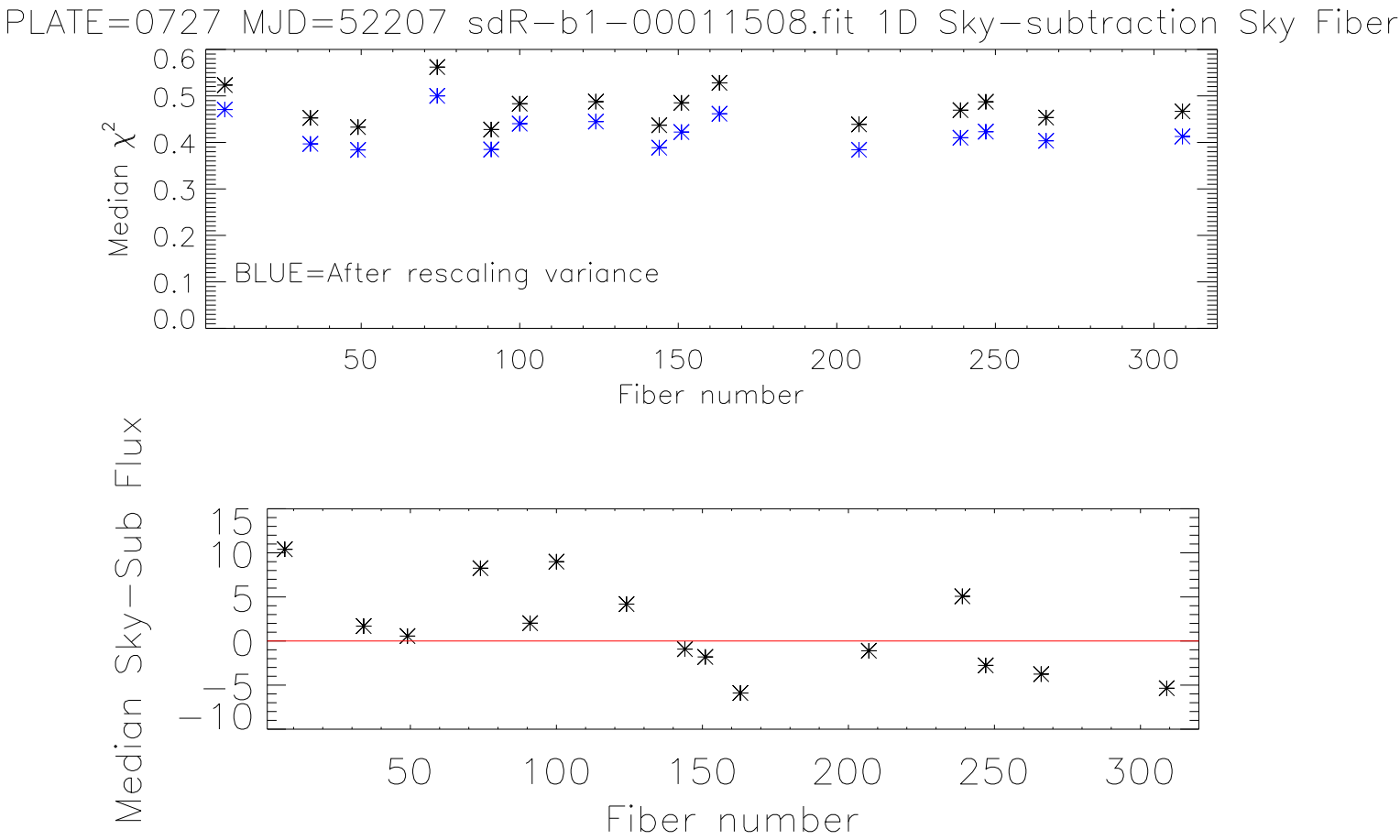

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

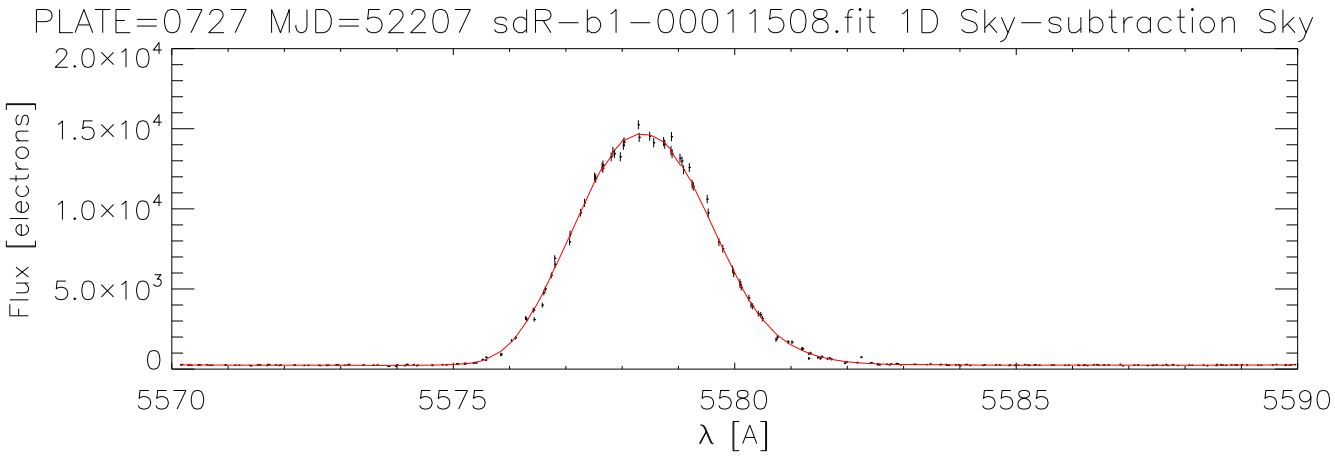

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

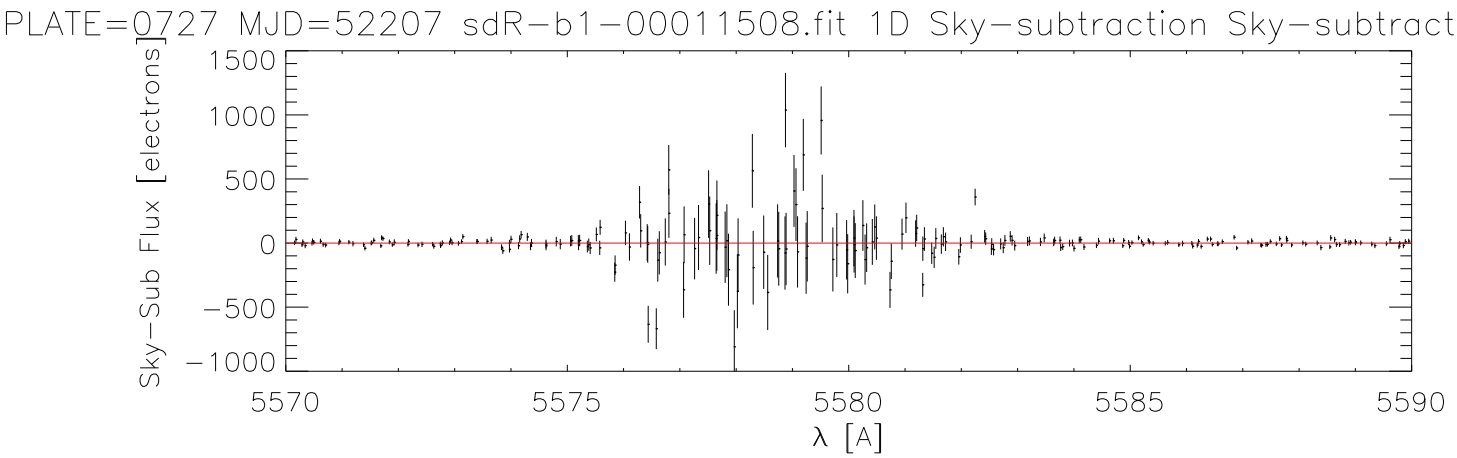

4046.5600
nfib1 16
nfib2 16
stdev 0.079
extra −0.12
4358.3300
nfib1 16
nfib2 16
stdev 0.046
extra −0.13
5460.9400
nfib1 16
nfib2 16
stdev 0.033
extra −0.12
5577.3390
nfib1 16
nfib2 16
stdev 0.011
extra −0.12
5889.9500
nfib1 16
nfib2 16
stdev 0.025
extra −0.04
5895.9240
nfib1 16
nfib2 16
stdev 0.030
extra −0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

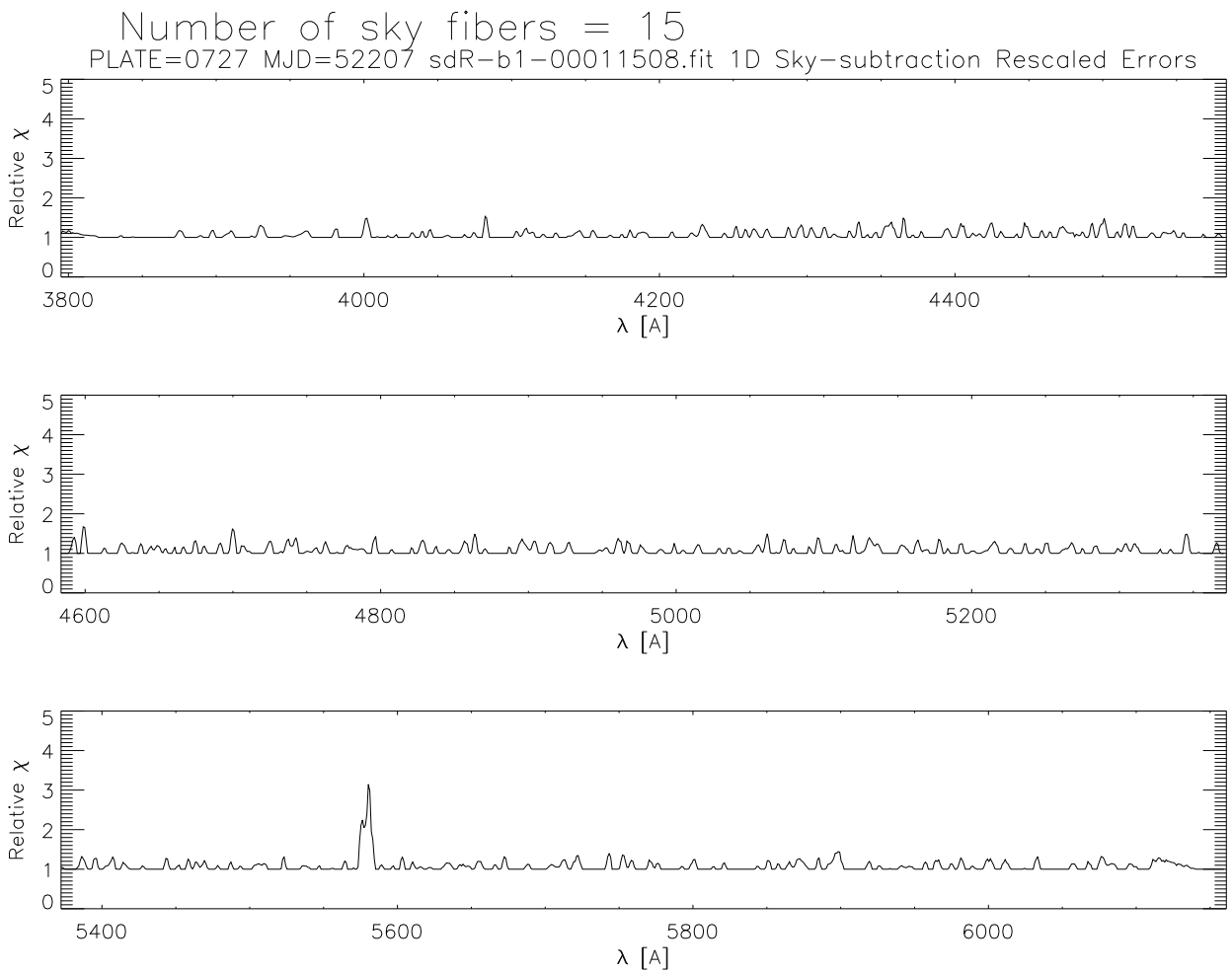

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
3500
4000
4500
5000
5500
6000
6500

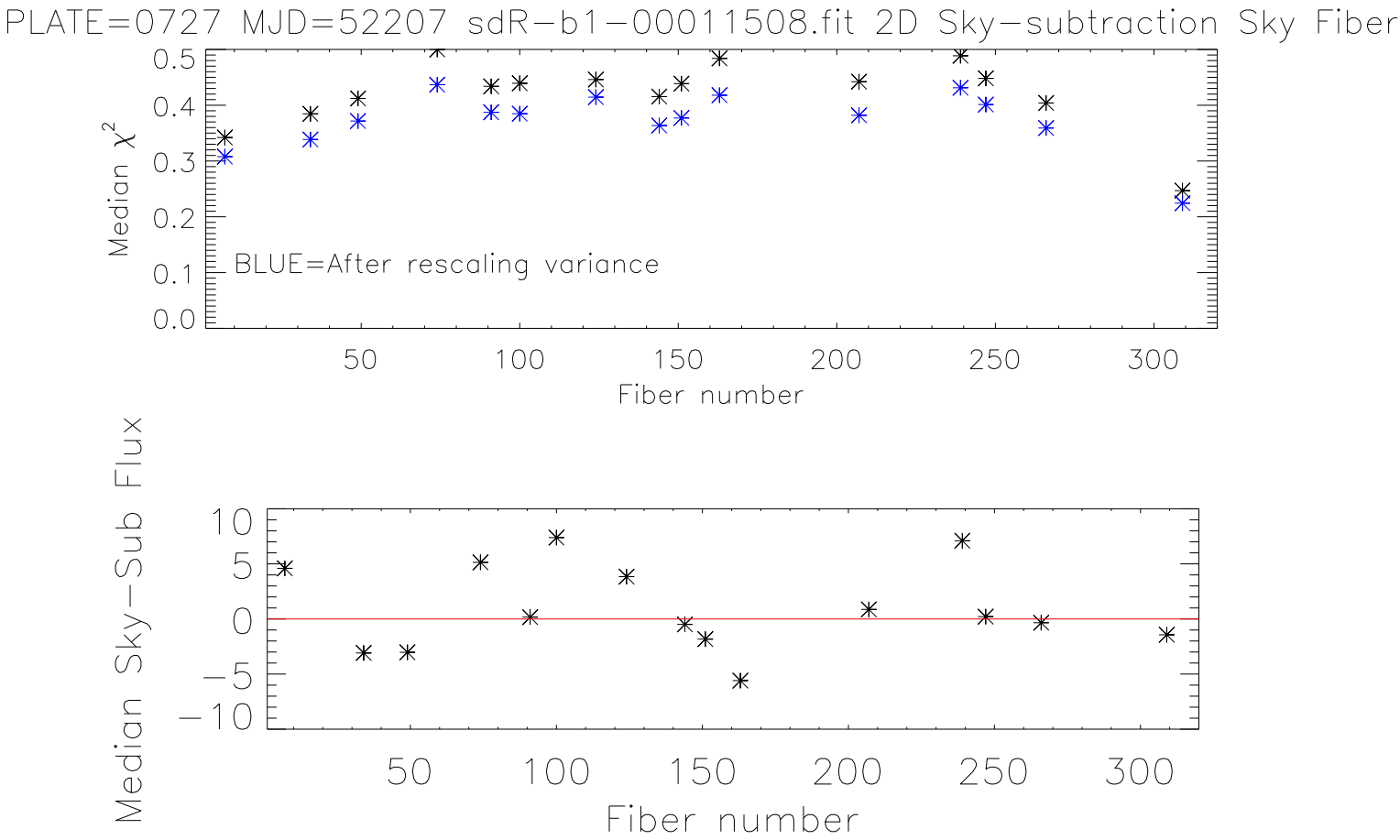

PLATE=0727 MJD=52207 Smooth superflat for sdR-b1-00011508.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

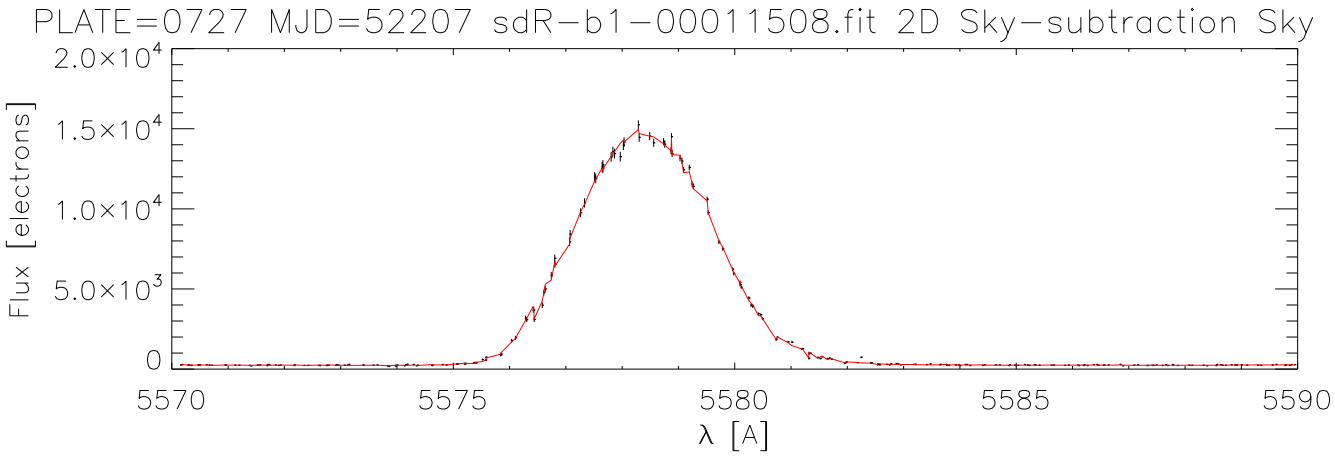

PLATE=0727 MJD=52207 sdR-b1-00011508.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

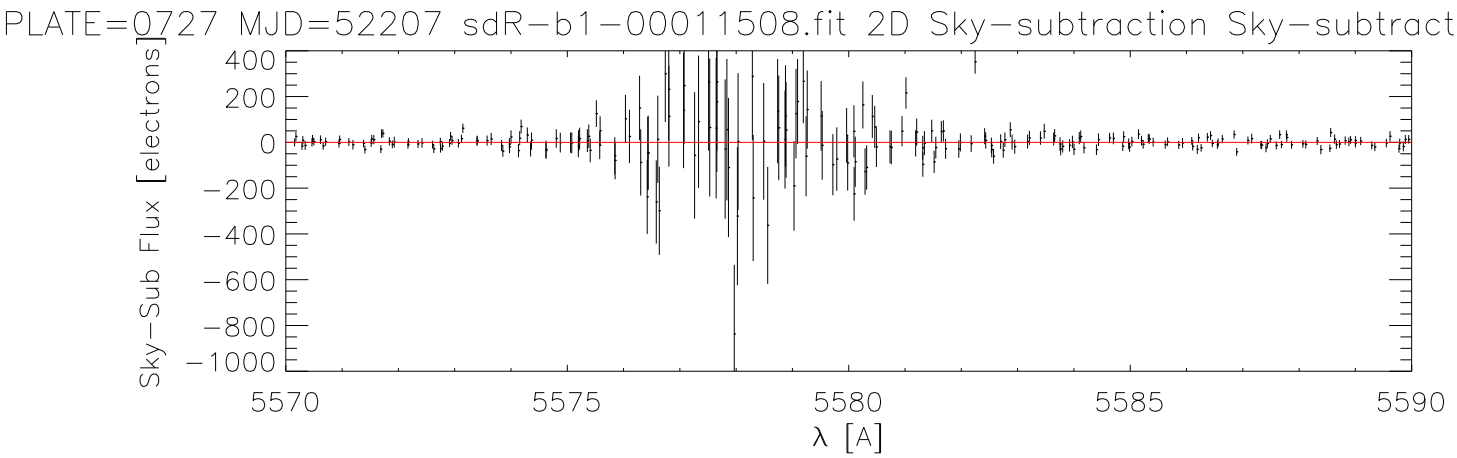

PLATE=0727 MJD=52207 sdR-b1-00011508.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

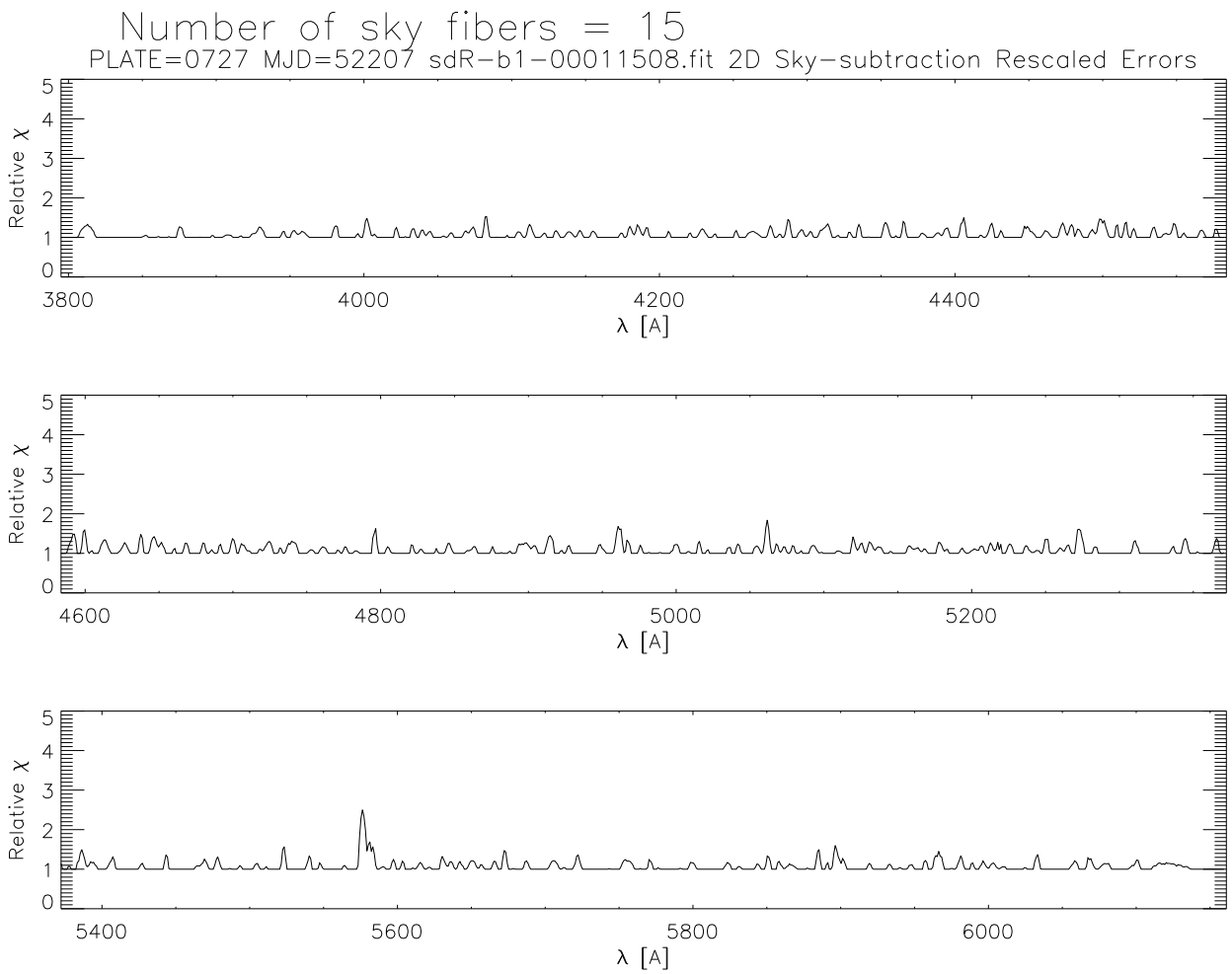

PLATE=0727 MJD=52207 sdR-b1-00011508.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

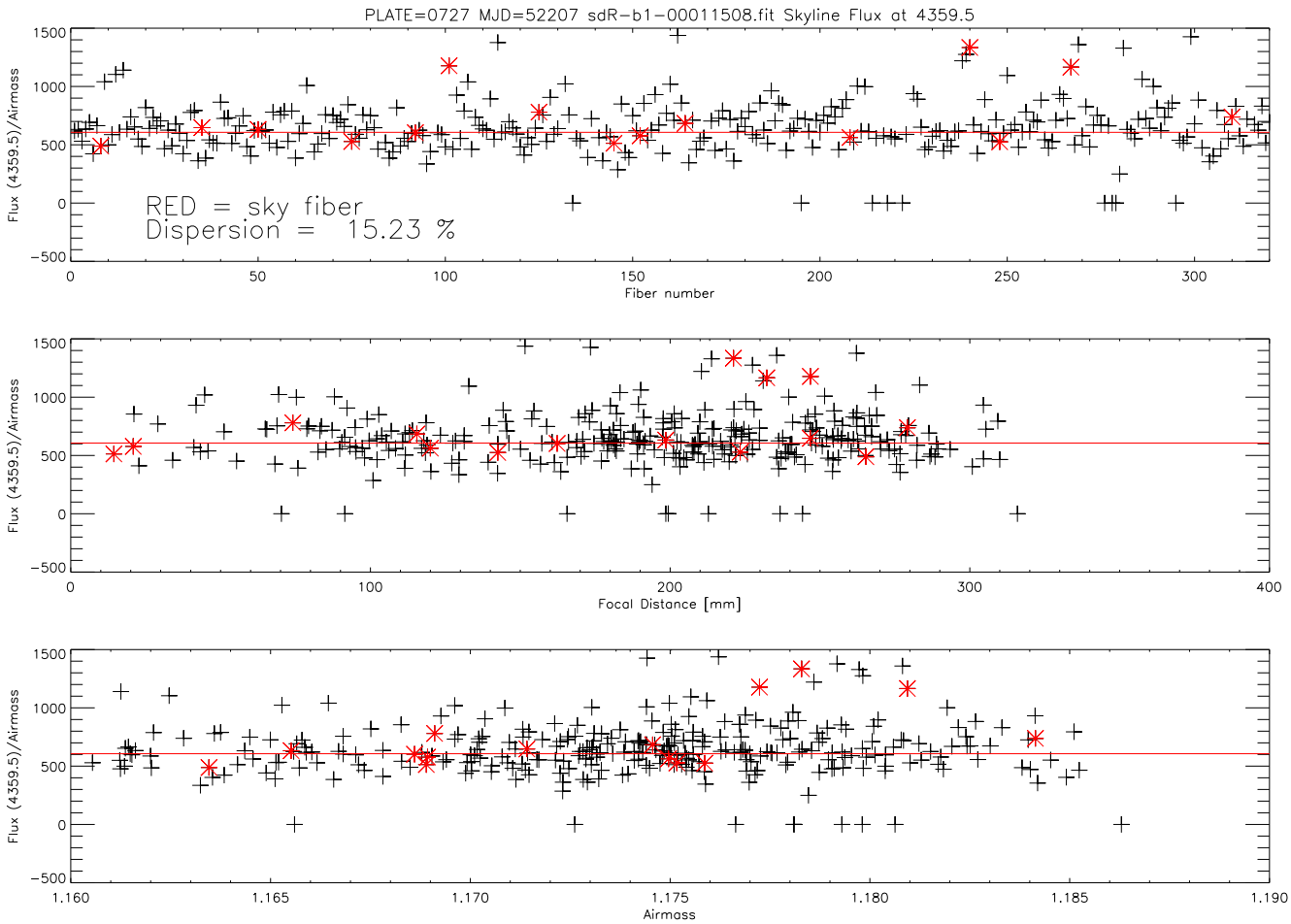

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b1-00011508.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

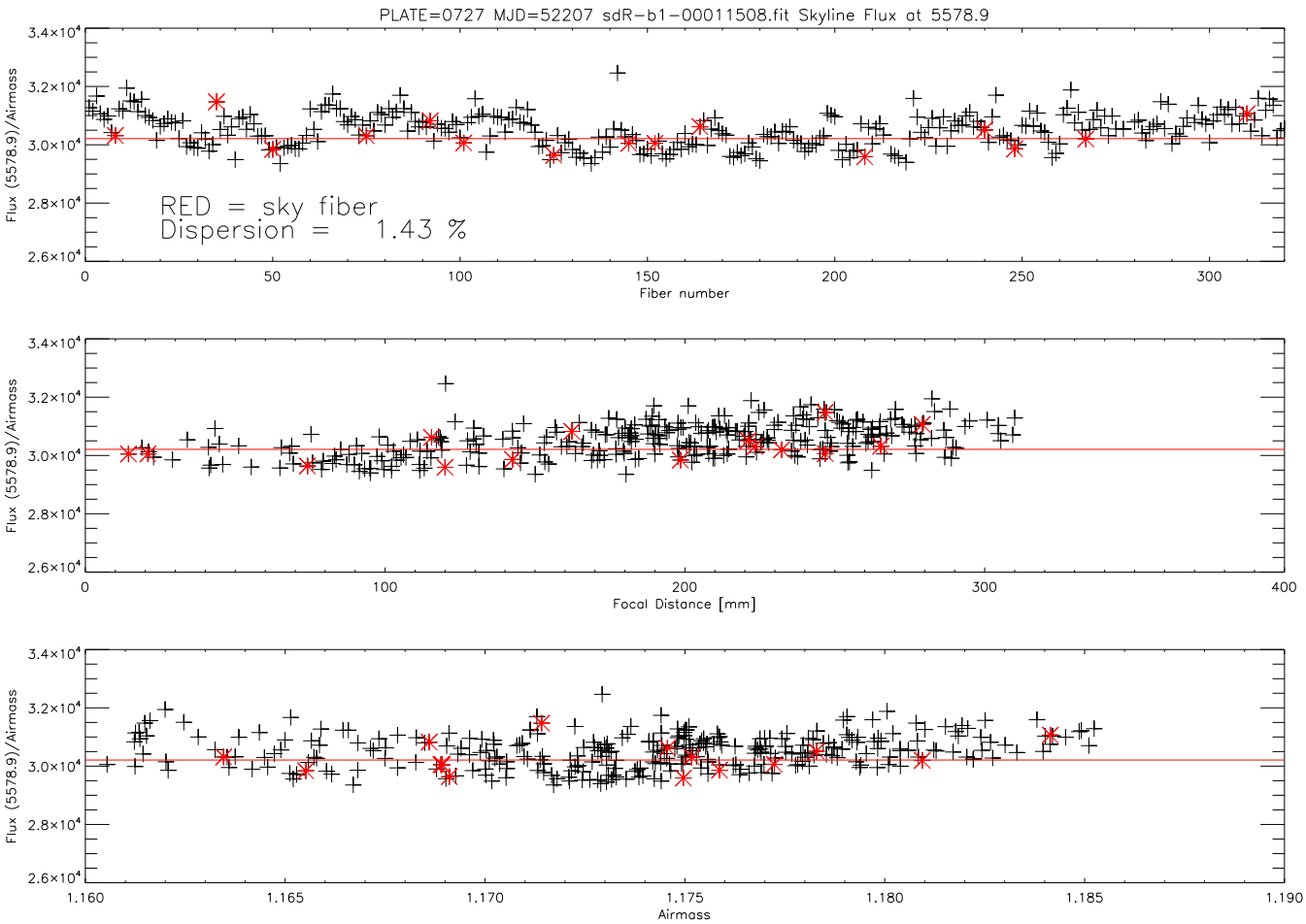

PLATE=0727 MJD=52207 sdR-b1-00011508.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

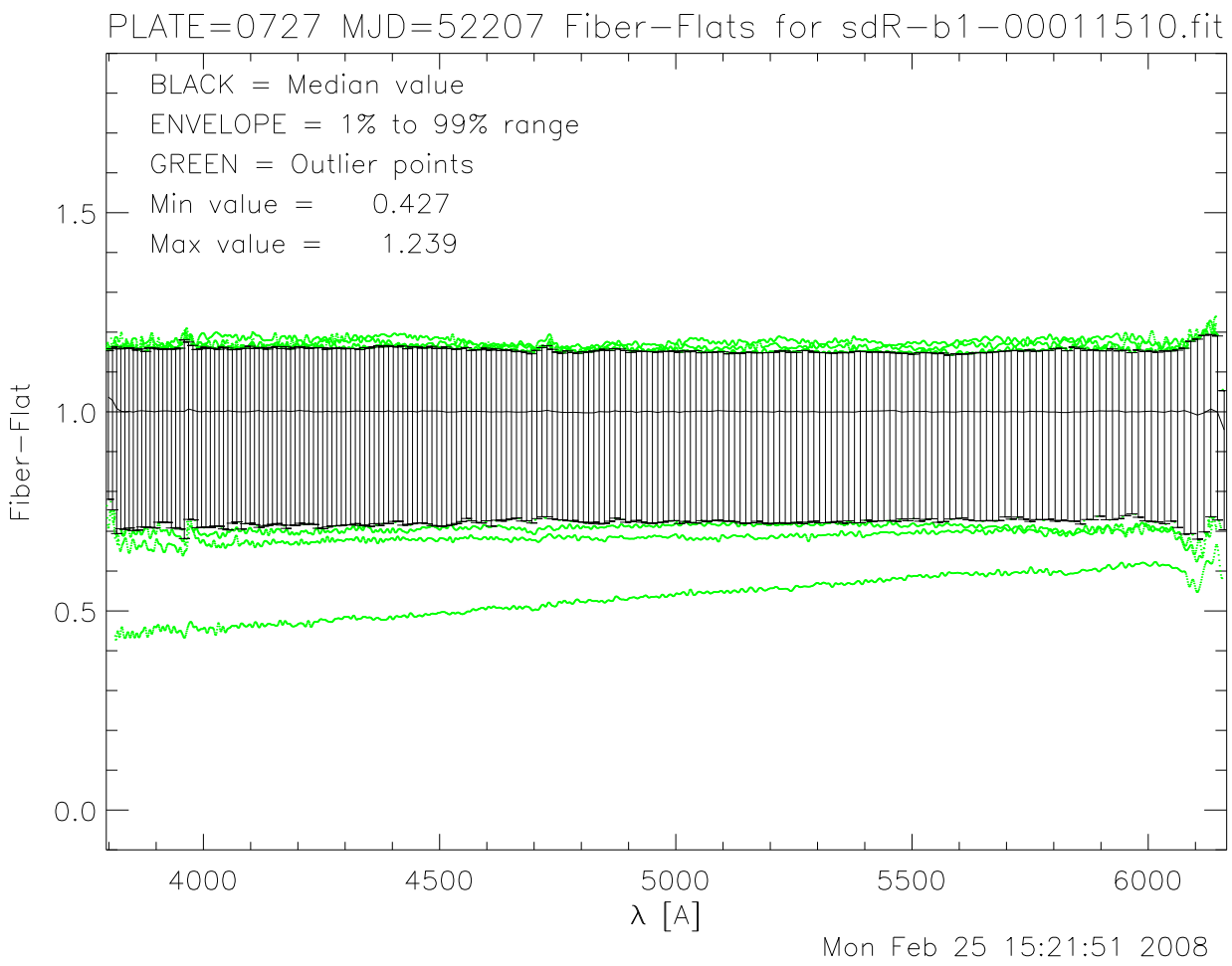

PLATE=0727 MJD=52207 sdR-b1-00011508.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

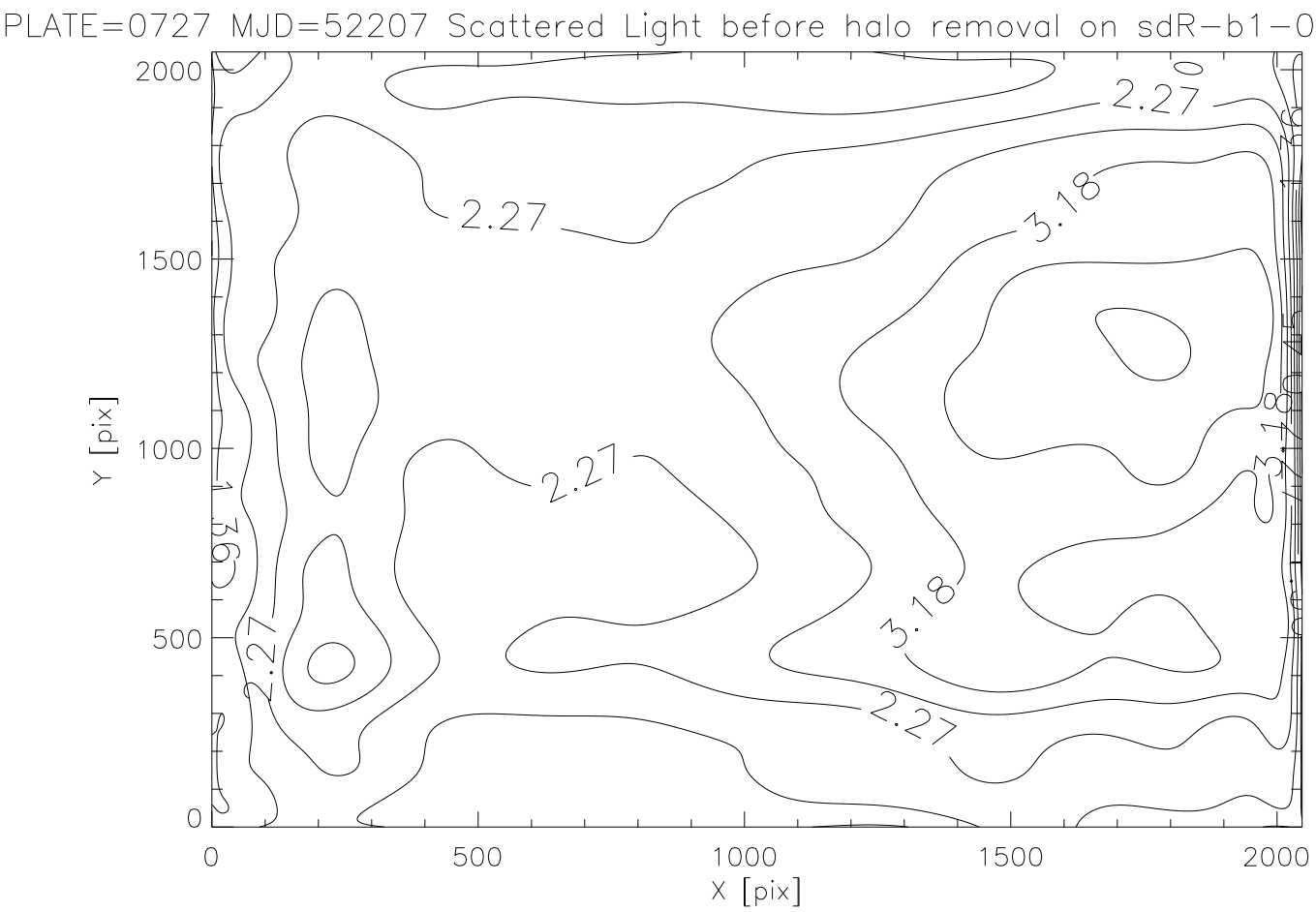

PLATE=0727 MJD=52207 sdR-b1-00011508.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
−600
−800
−1000
5570
5575
5580
5585
5590
λ [A]

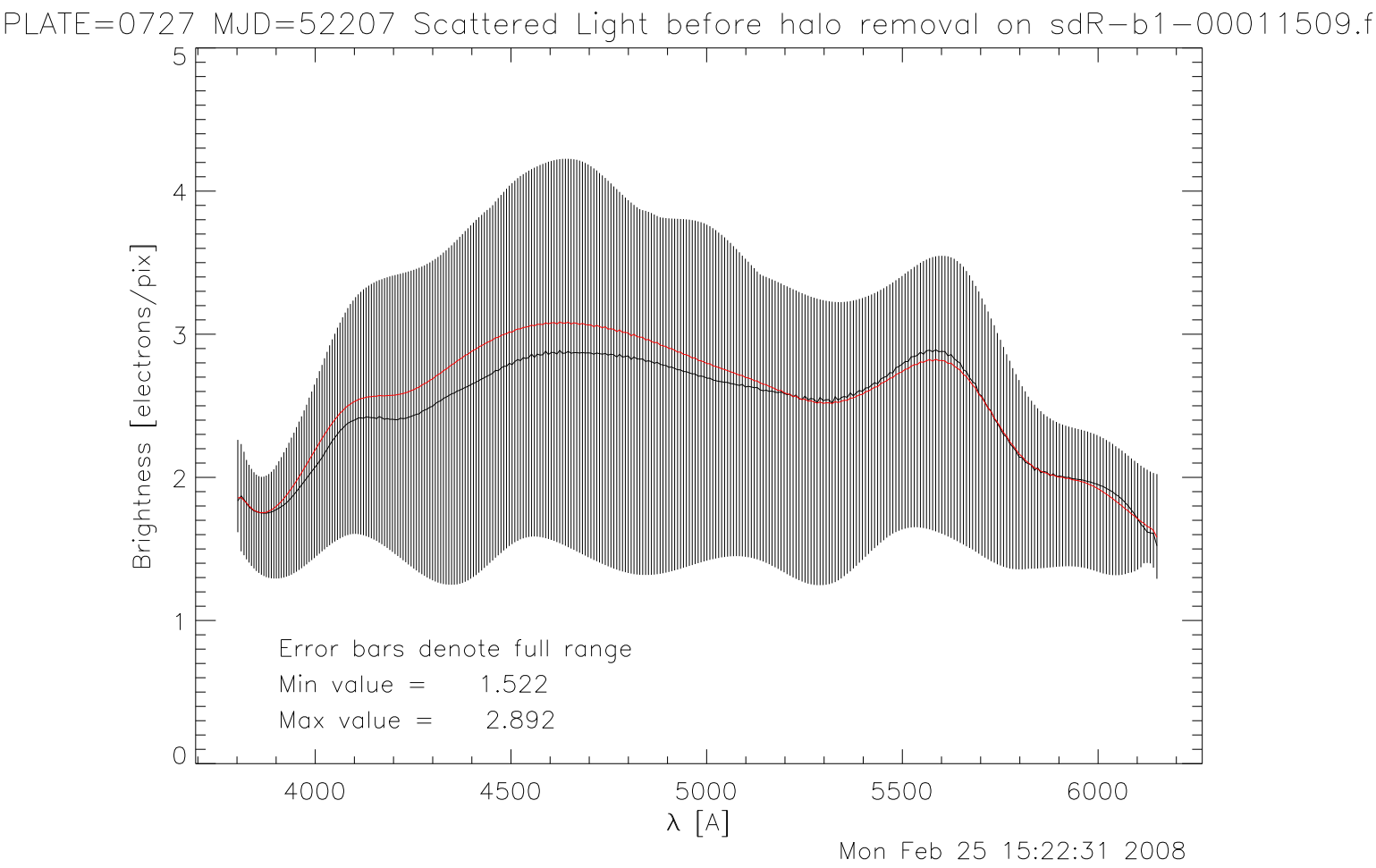

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b1-00011508.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

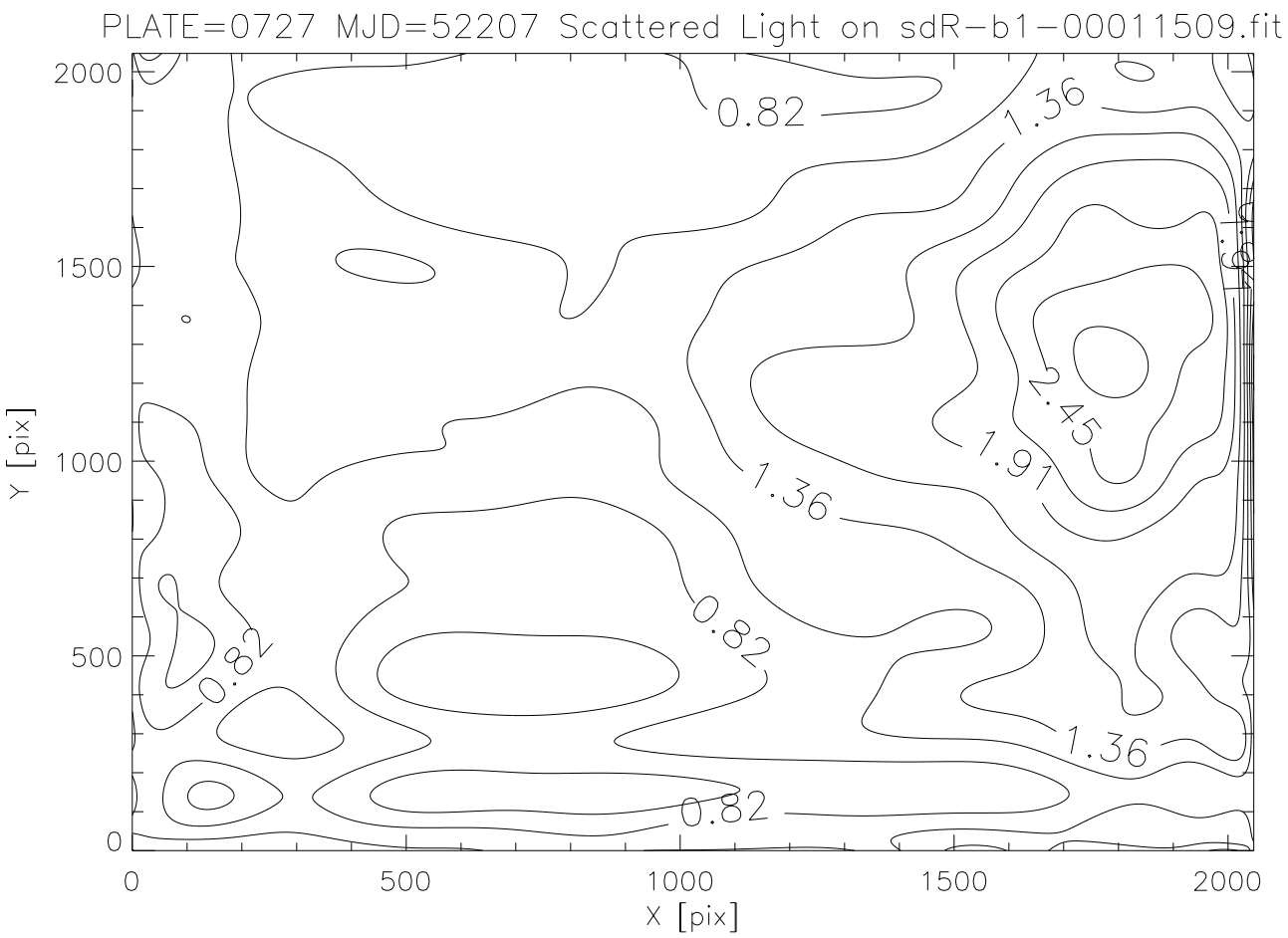

PLATE=0727 MJD=52207 sdR-b1-00011508.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 15.23 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

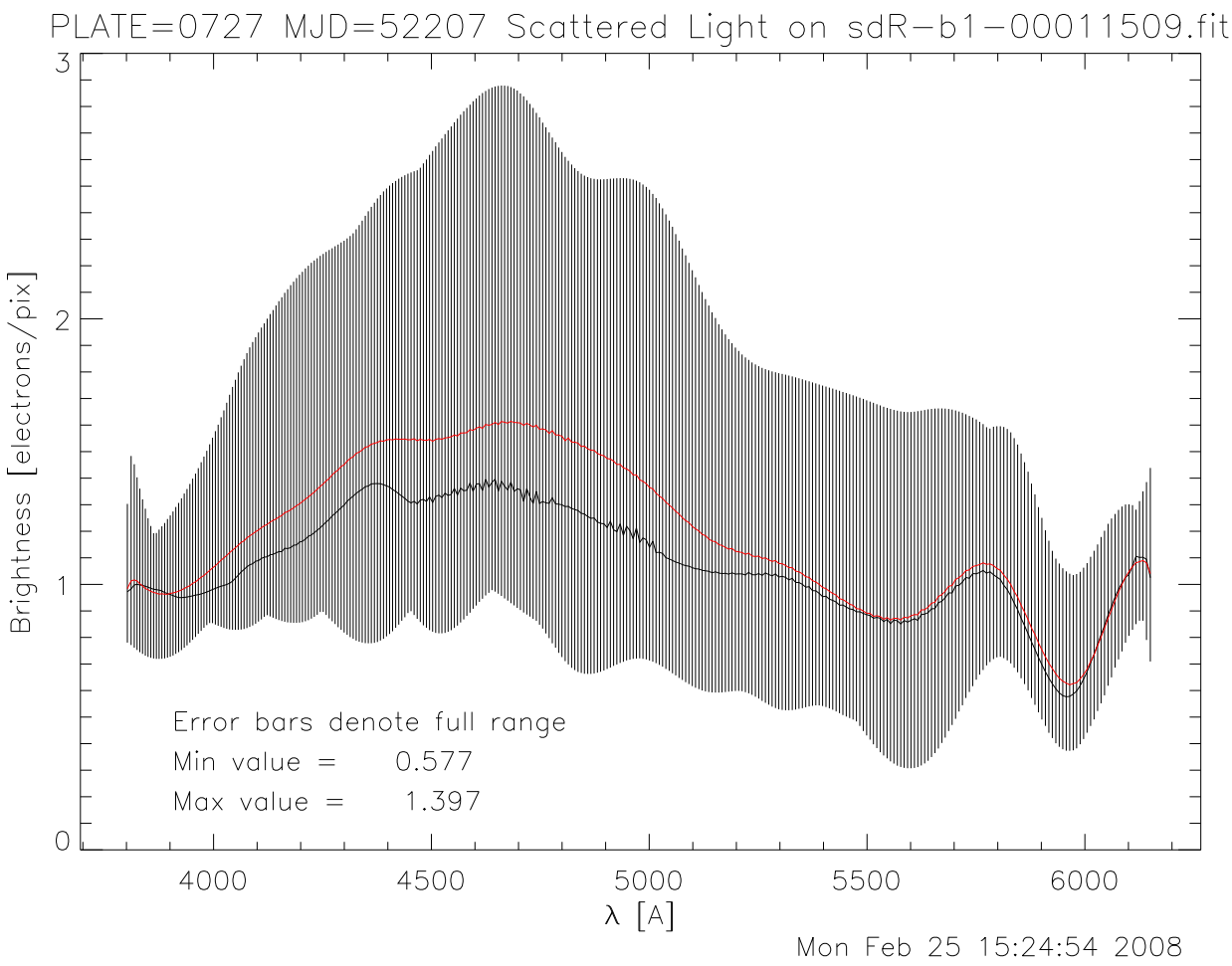

PLATE=0727 MJD=52207 sdR-b1-00011508.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.43 %
Fiber number
Focal Distance [mm]
Airmass

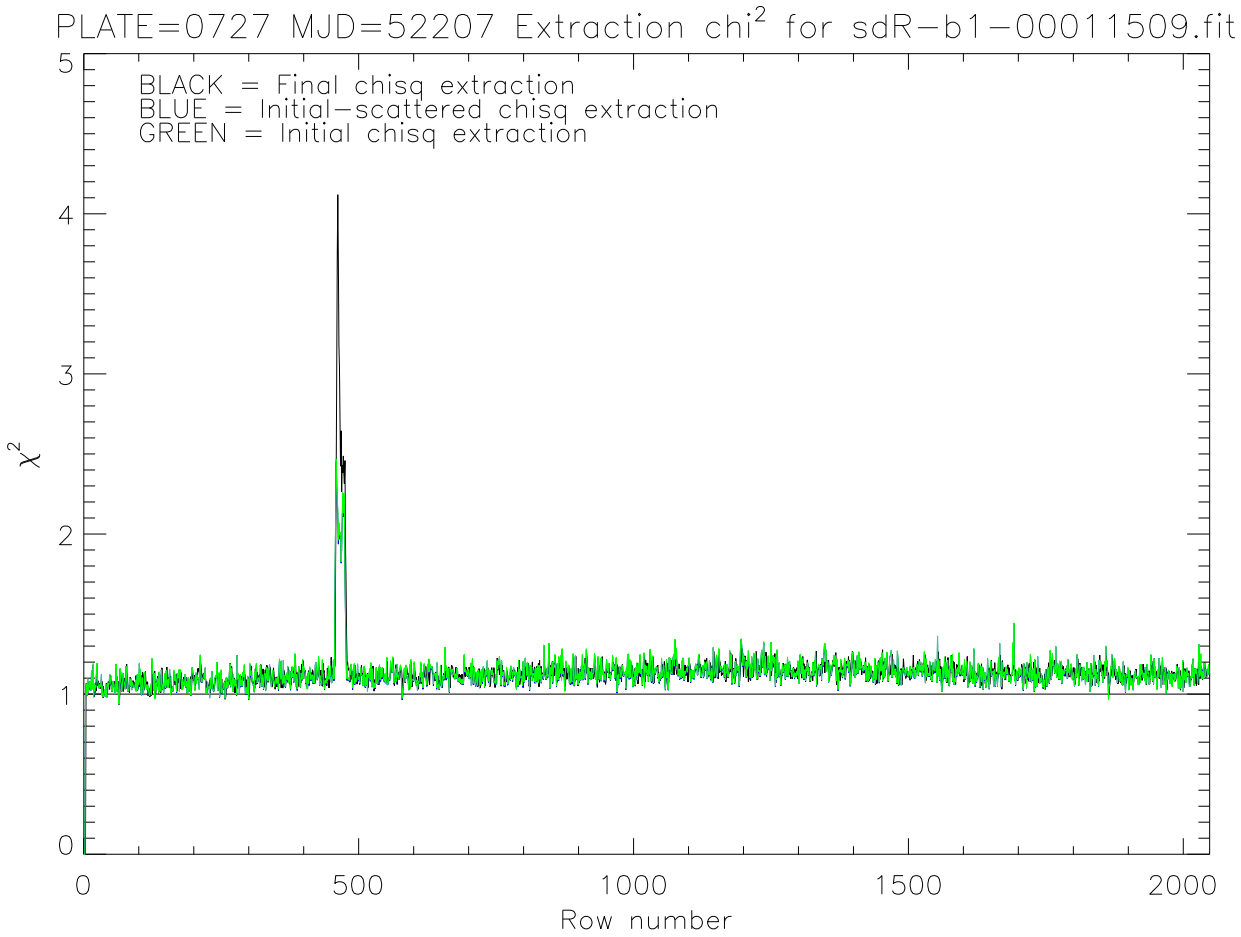

PLATE=0727 MJD=52207 Fiber−Flats for sdR−b1−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.427
Max value = 1.239
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:21:51 2008

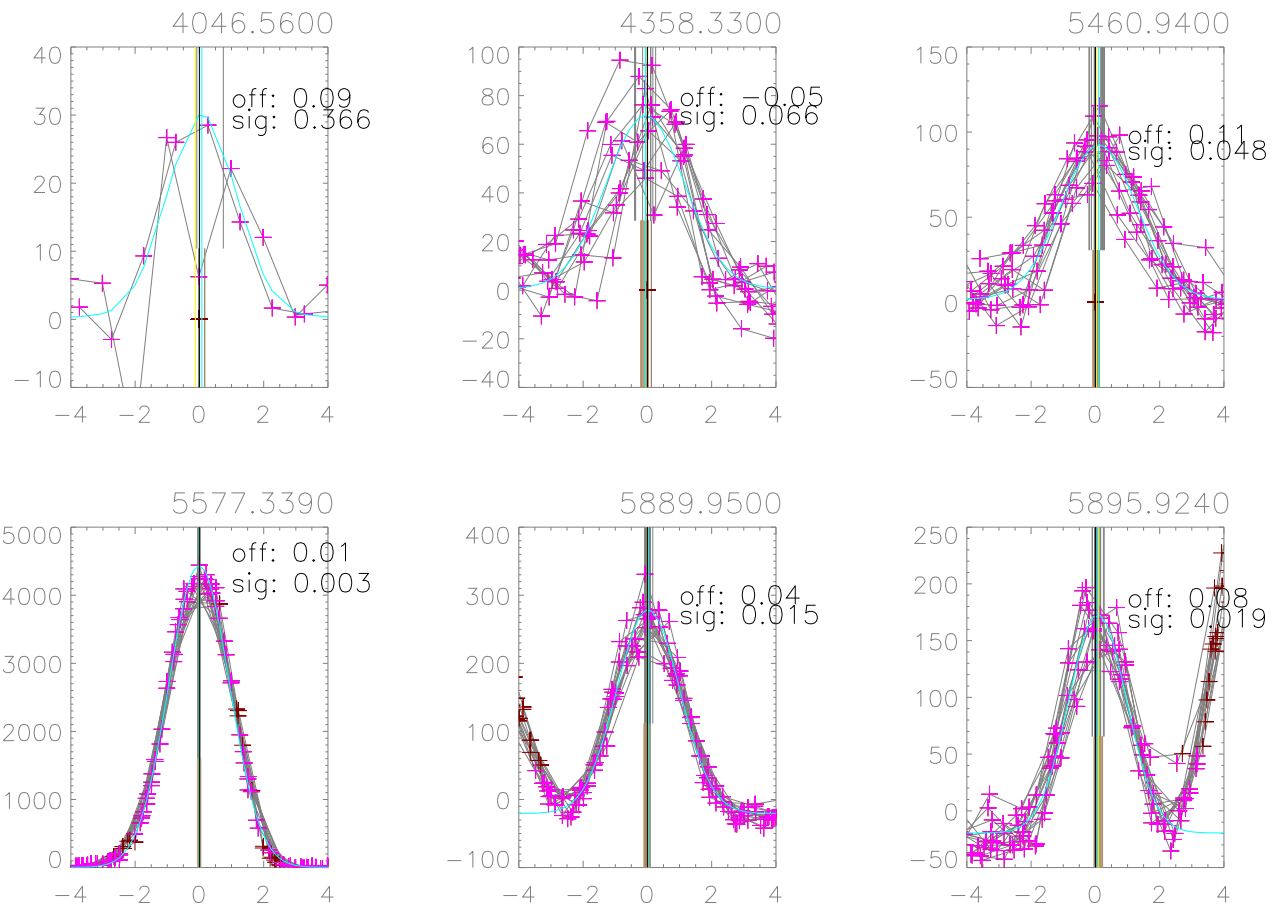

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR−b1−00011509.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
2.27
2.27
3.18
2.27
3.18
2.27
2.27

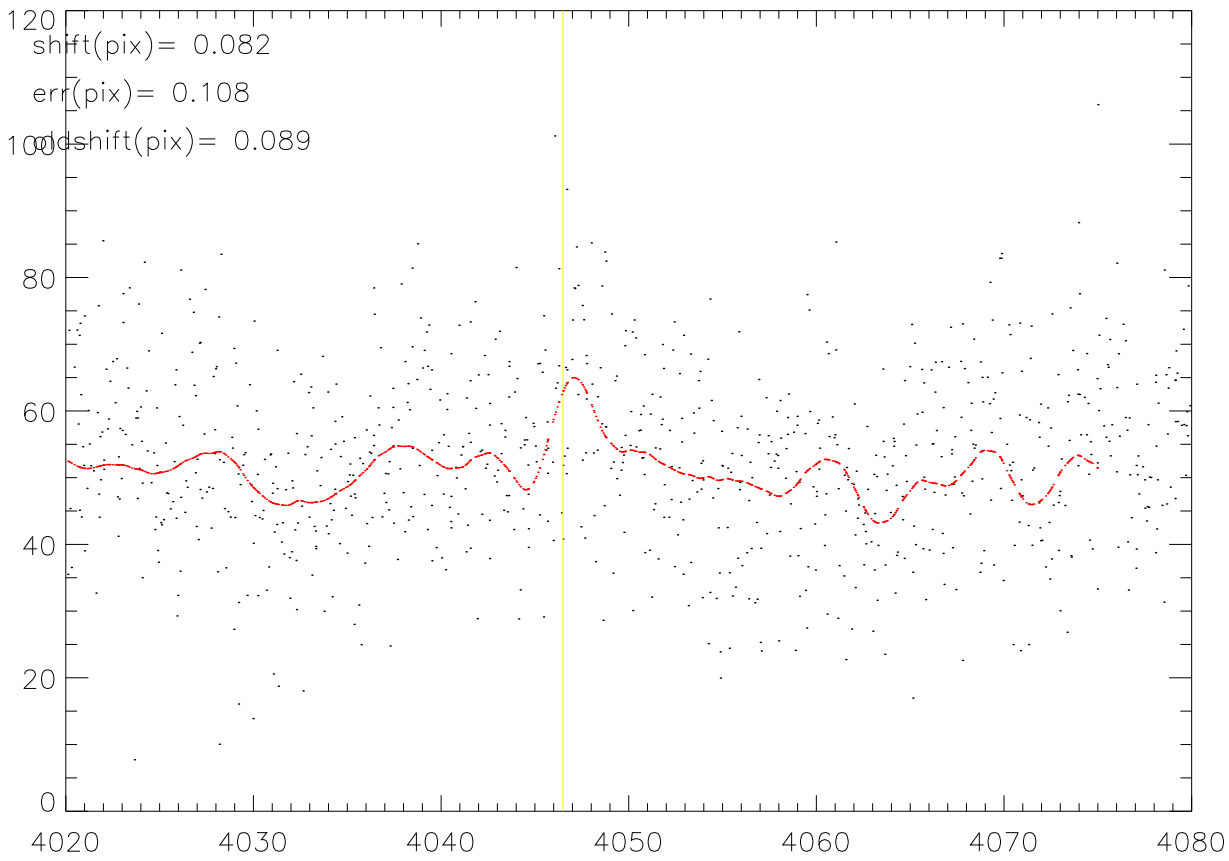

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-b1-00011509.f
Brightness [electrons/pix]
0
1
2
3
4
5
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 1.522
Max value = 2.892
Mon Feb 25 15:22:31 2008

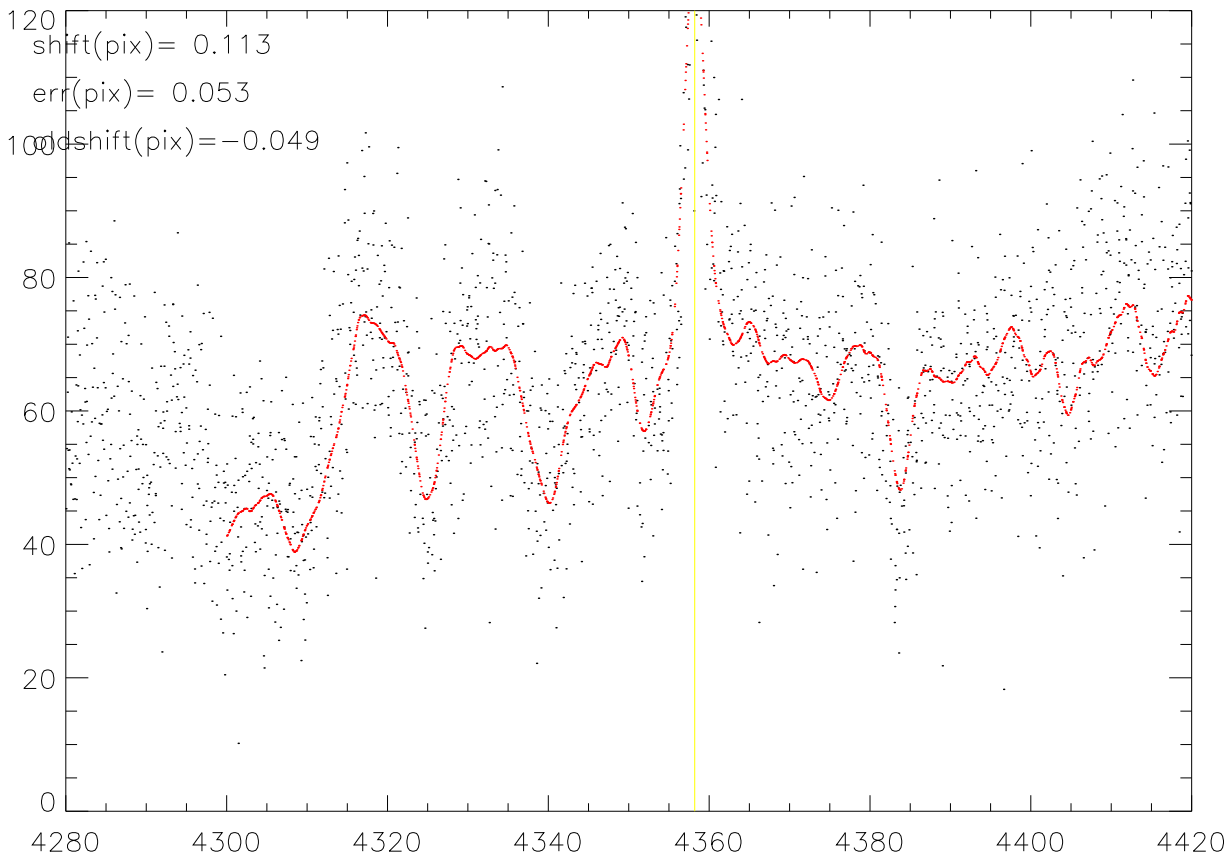

PLATE=0727 MJD=52207 Scattered Light on sdR-b1-00011509.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0.82
1.36
2.45
1.91

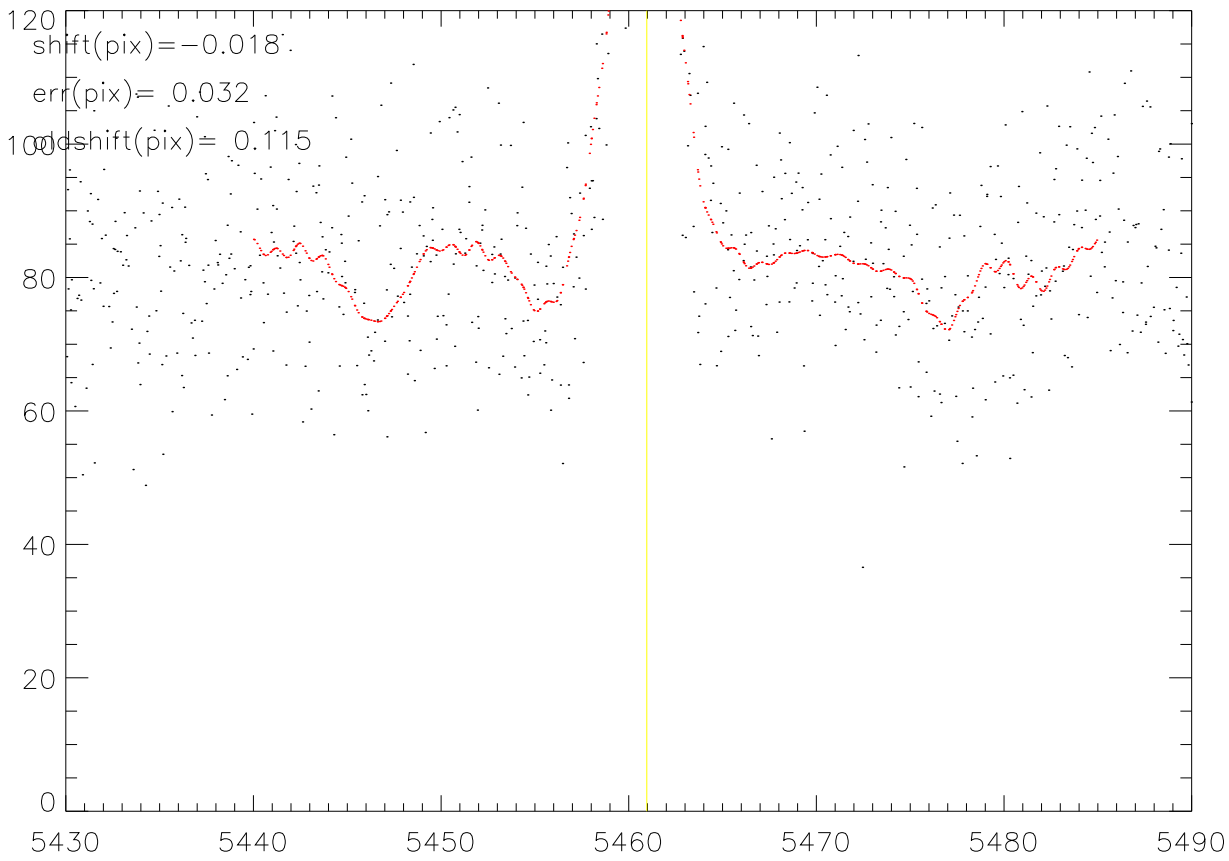

PLATE=0727 MJD=52207 Scattered Light on sdR-b1-00011509.fit
Brightness [electrons/pix]
3
2
1
0
Error bars denote full range
Min value = 0.577
Max value = 1.397
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:24:54 2008

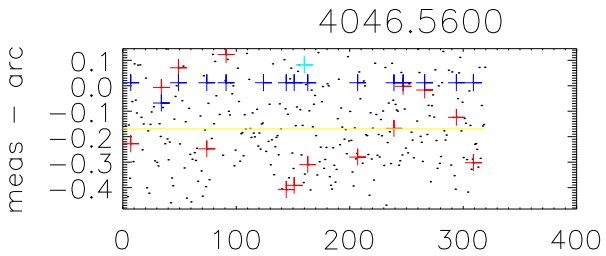

PLATE=0727 MJD=52207 Extraction chi^2 for sdR-b1-00011509.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

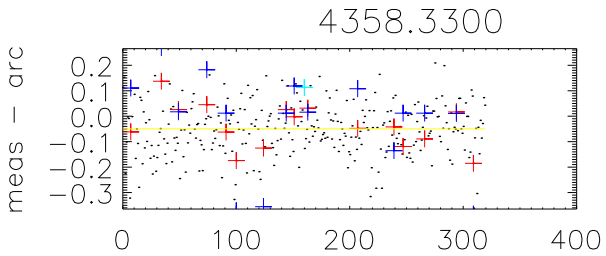

4046.5600
off: 0.09
sig: 0.366
4358.3300
off: −0.05
sig: 0.066
5460.9400
off: 0.11
sig: 0.048
5577.3390
off: 0.01
sig: 0.003
5889.9500
off: 0.04
sig: 0.015
5895.9240
off: 0.08
sig: 0.019

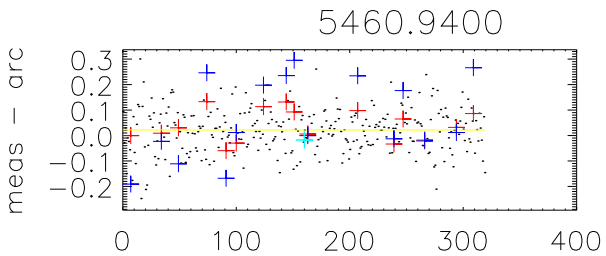

shift(pix)= 0.082
err(pix)= 0.108
oldshift(pix)= 0.089
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

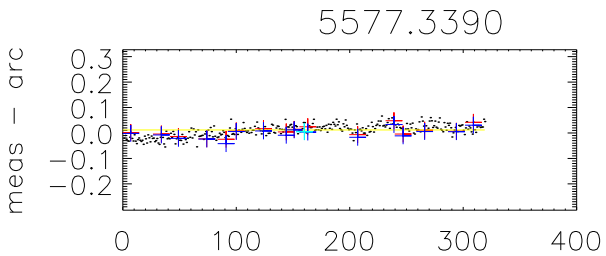

shift(pix)= 0.113
err(pix)= 0.053
oldshift(pix)=−0.049
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

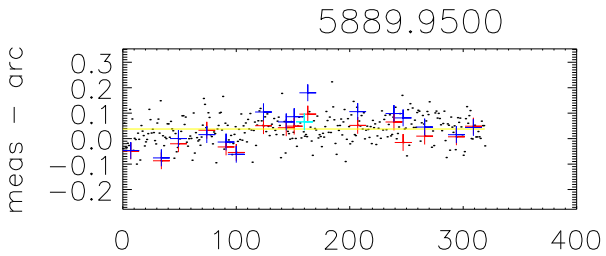

shift(pix)=−0.018
err(pix)= 0.032
oldshift(pix)= 0.115
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

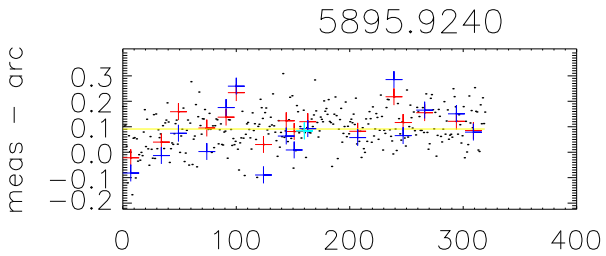

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

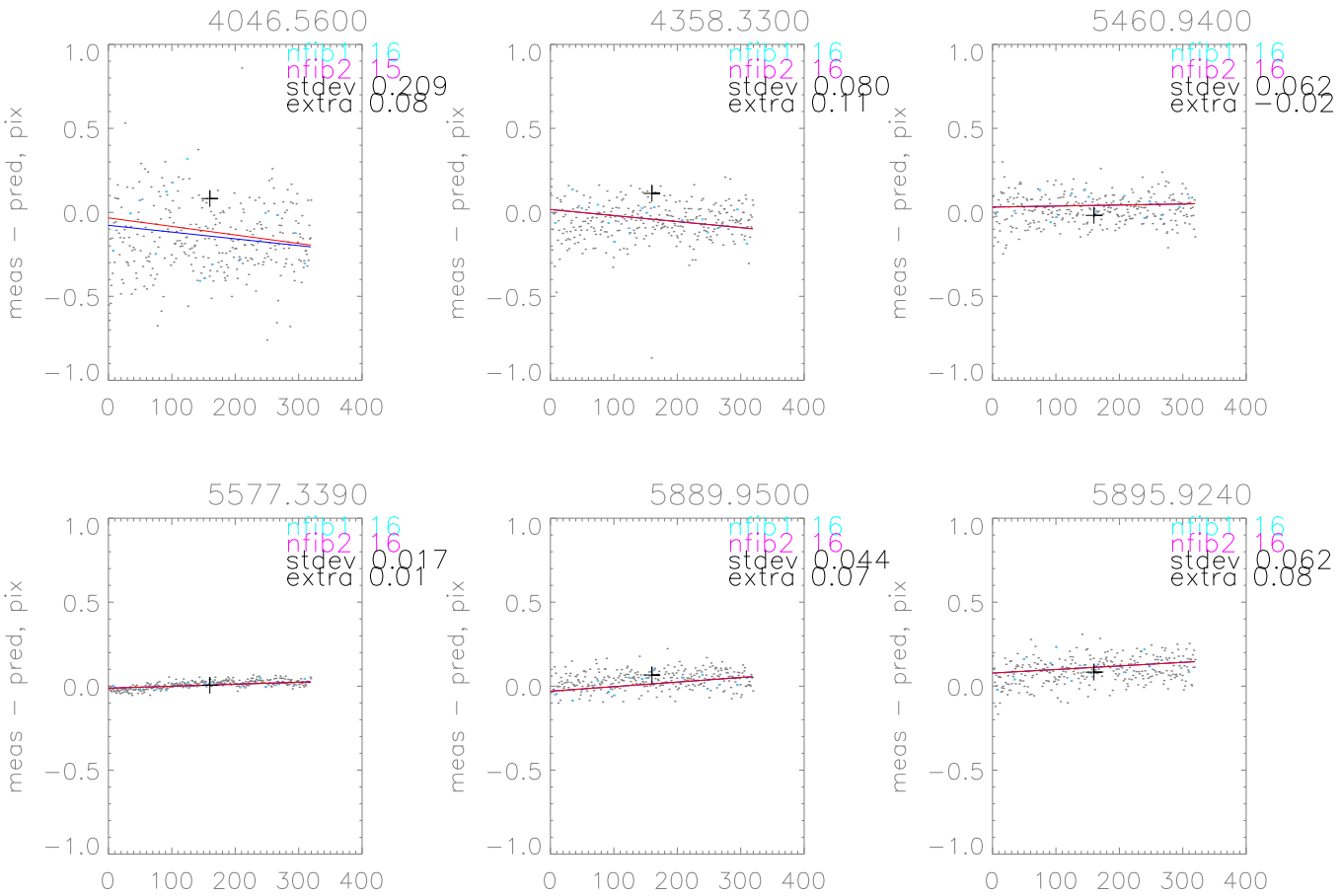

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

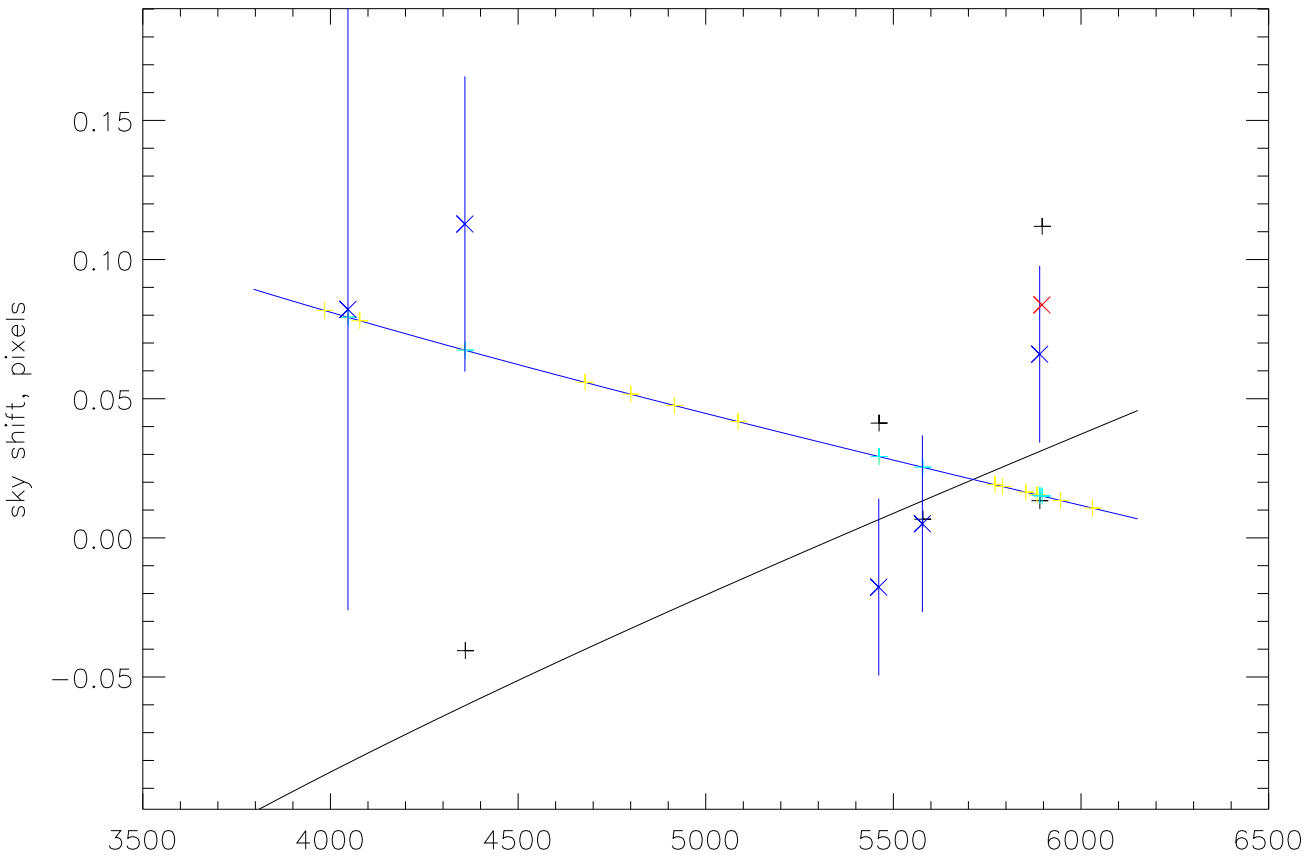

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

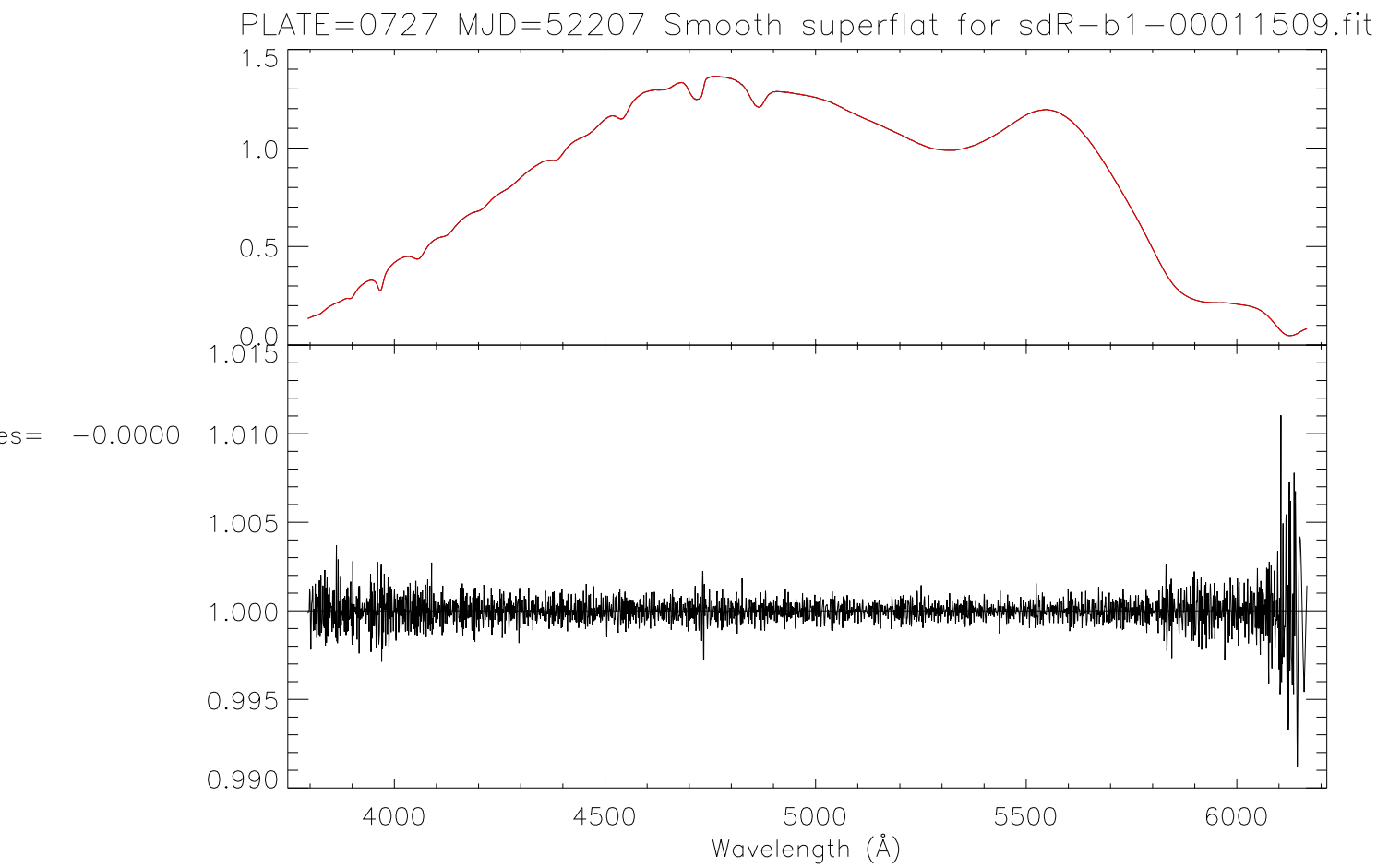

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

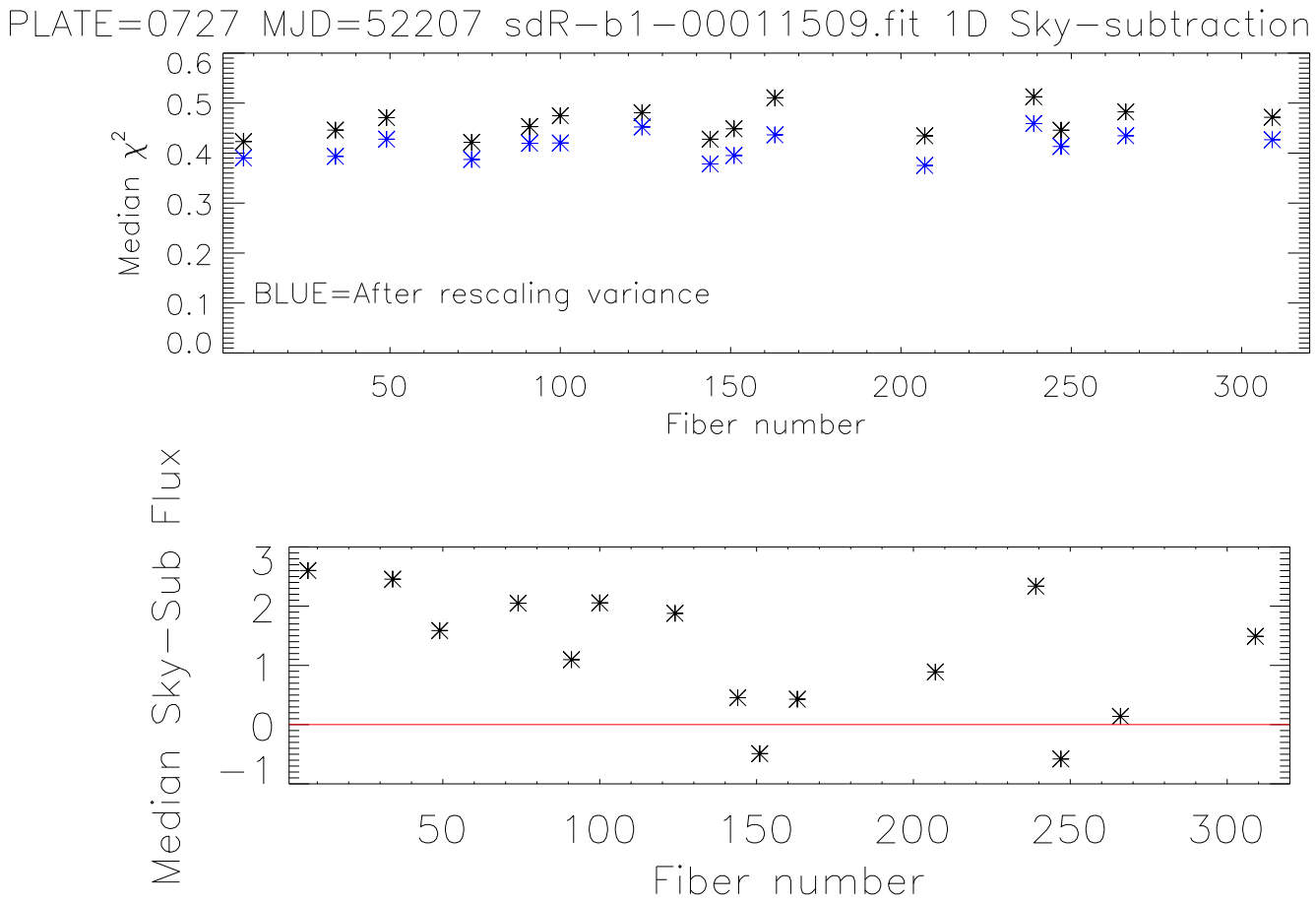

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

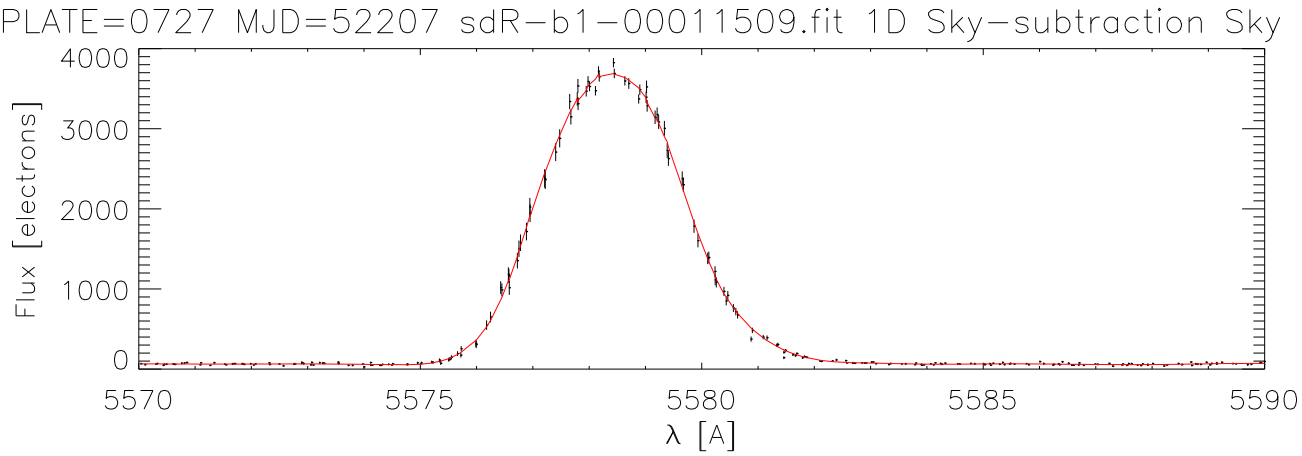

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

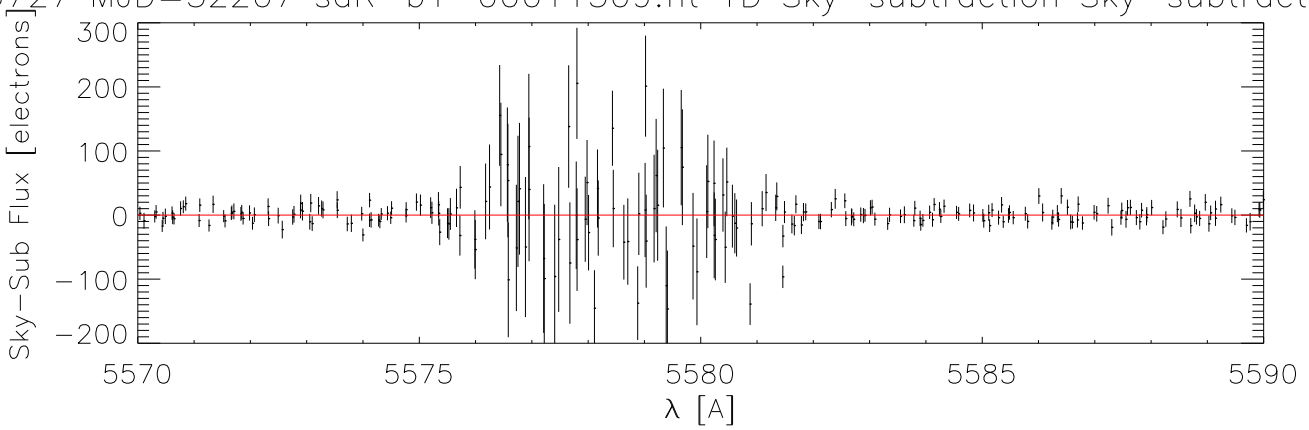

4046.5600
nfib1 16
nfib2 15
stdev 0.209
extra 0.08
4358.3300
nfib1 16
nfib2 16
stdev 0.080
extra 0.11
5460.9400
nfib1 16
nfib2 16
stdev 0.062
extra −0.02
5577.3390
nfib1 16
nfib2 16
stdev 0.017
extra 0.01
5889.9500
nfib1 16
nfib2 16
stdev 0.044
extra 0.07
5895.9240
nfib1 16
nfib2 16
stdev 0.062
extra 0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

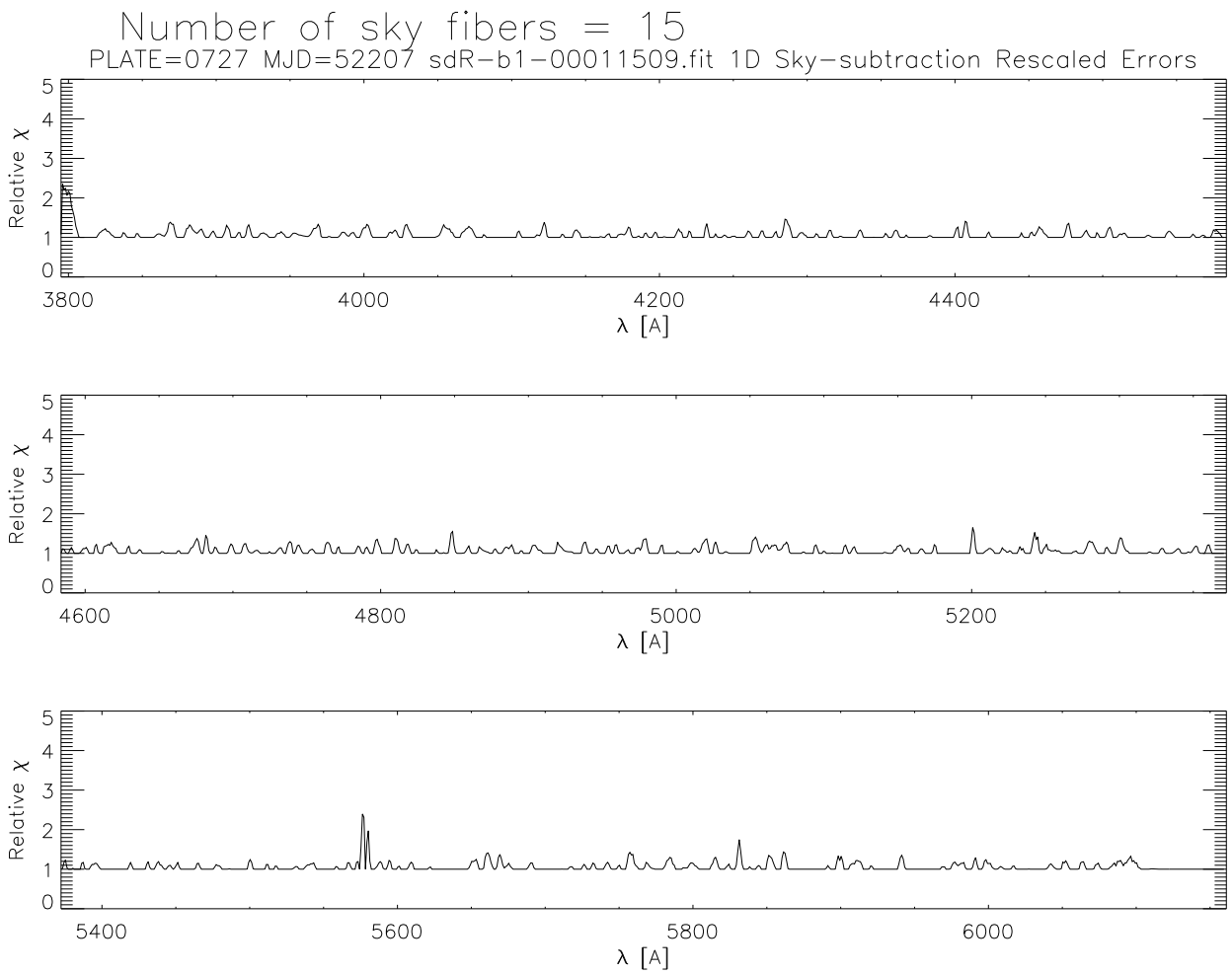

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
3500
4000
4500
5000
5500
6000
6500

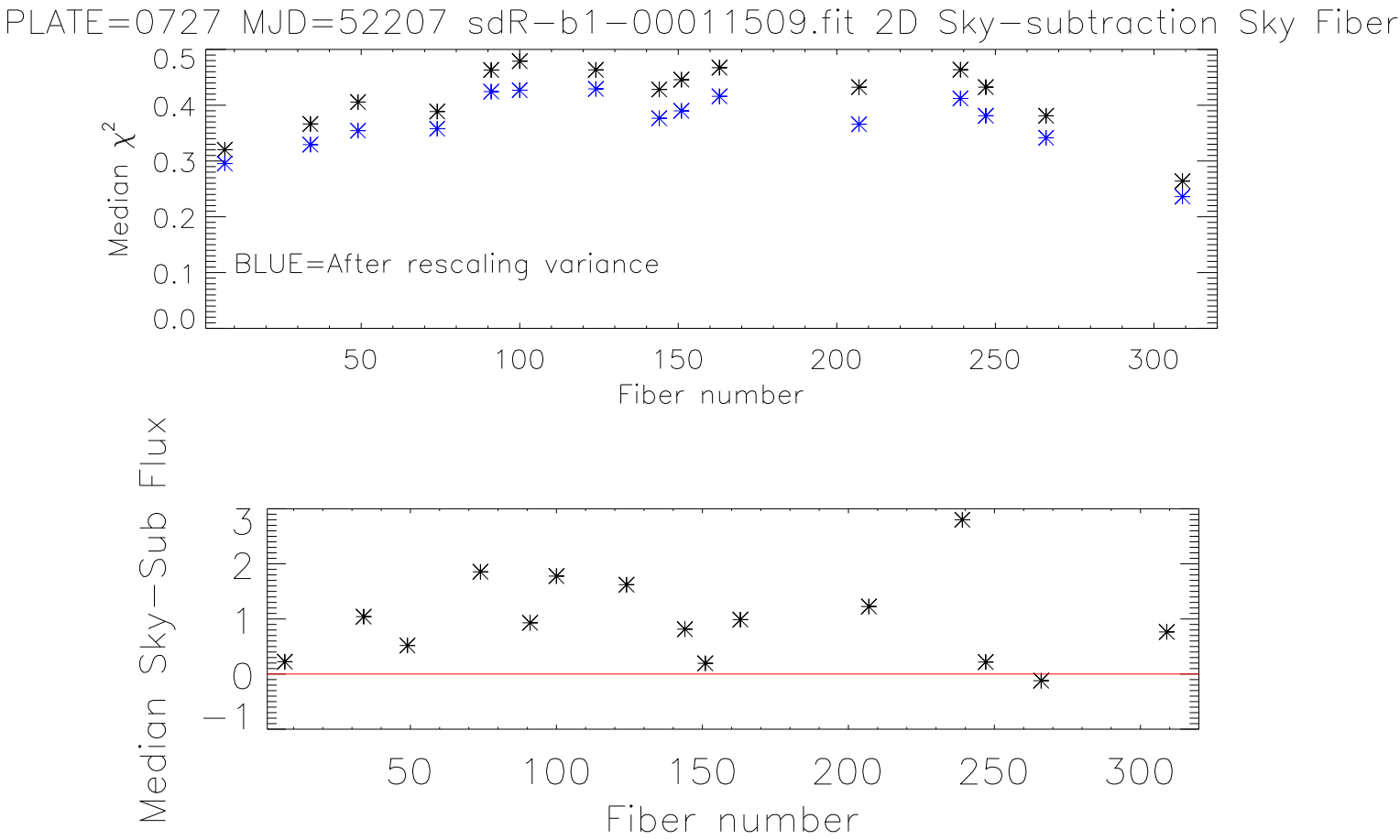

PLATE=0727 MJD=52207 Smooth superflat for sdR-b1-00011509.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

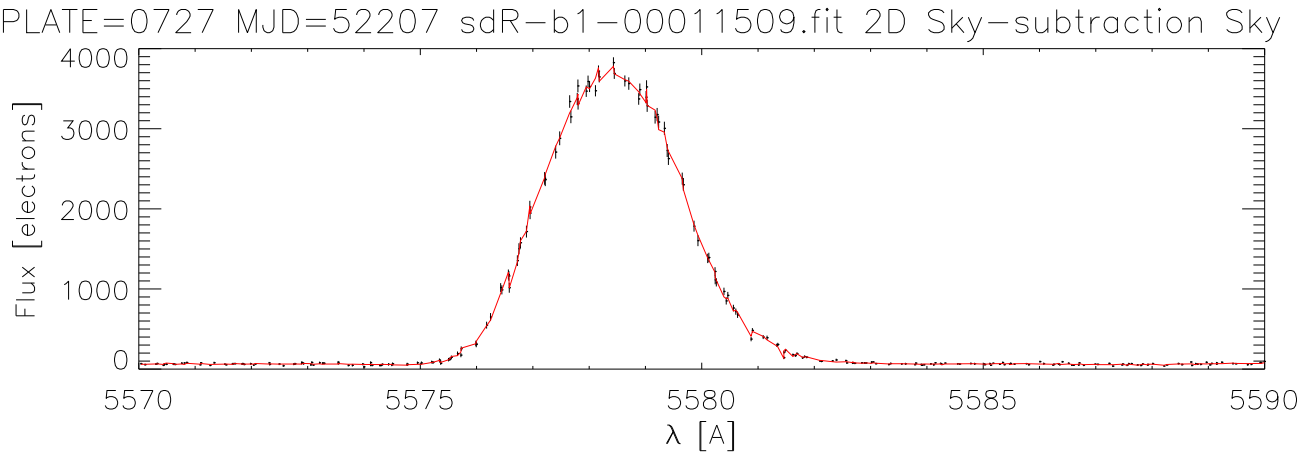

PLATE=0727 MJD=52207 sdR-b1-00011509.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

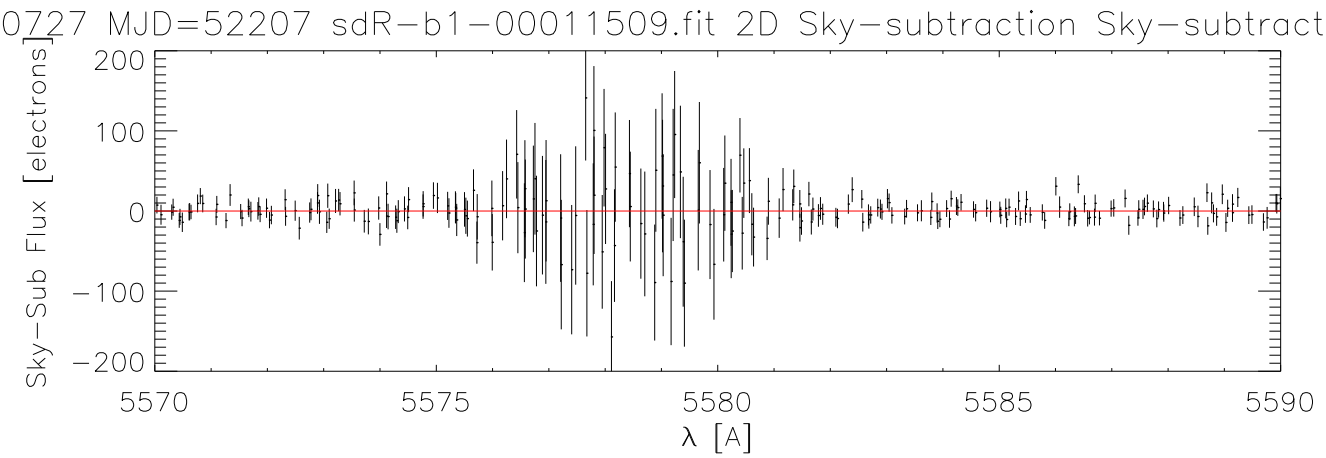

PLATE=0727 MJD=52207 sdR-b1-00011509.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

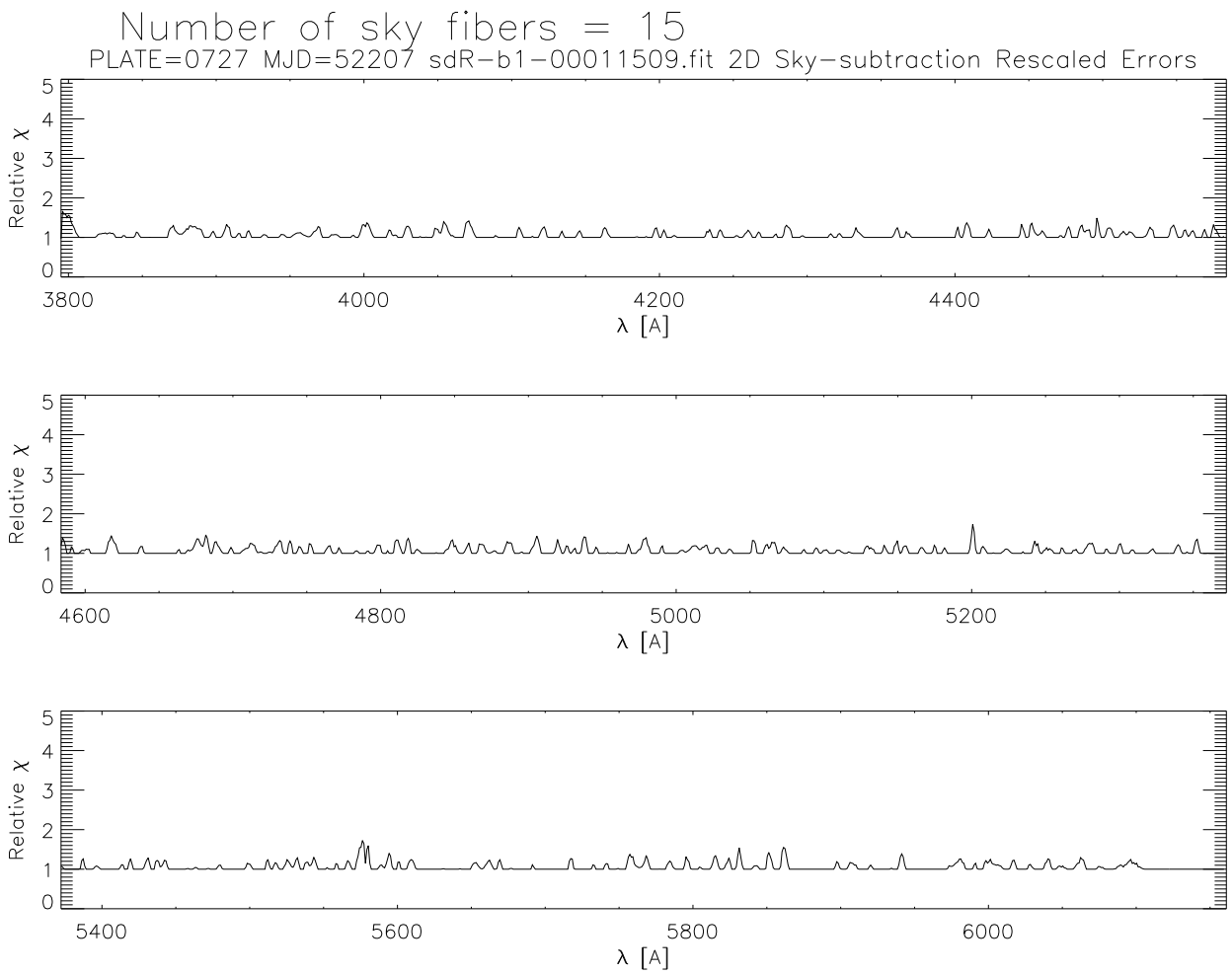

PLATE=0727 MJD=52207 sdR-b1-00011509.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

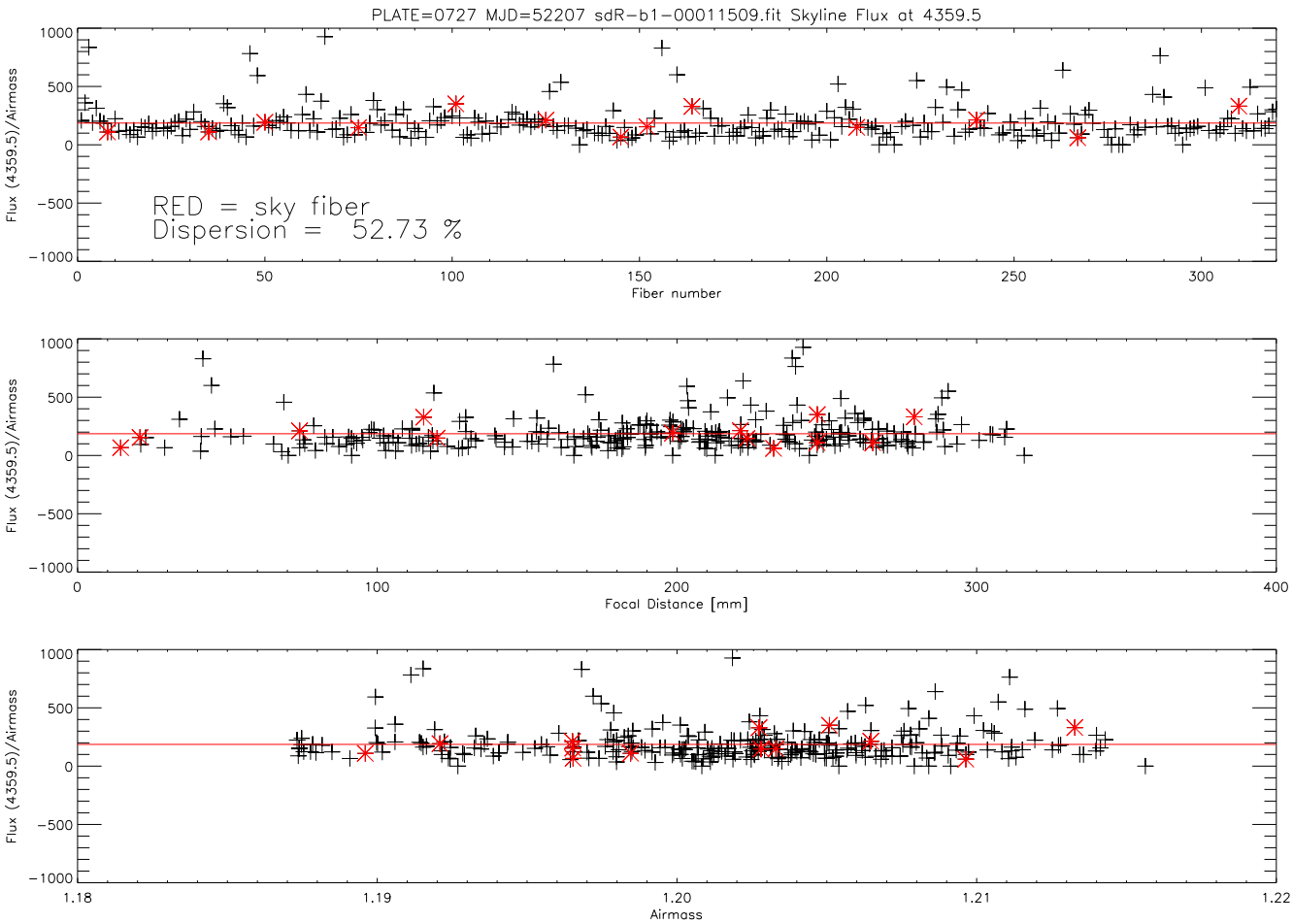

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b1-00011509.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

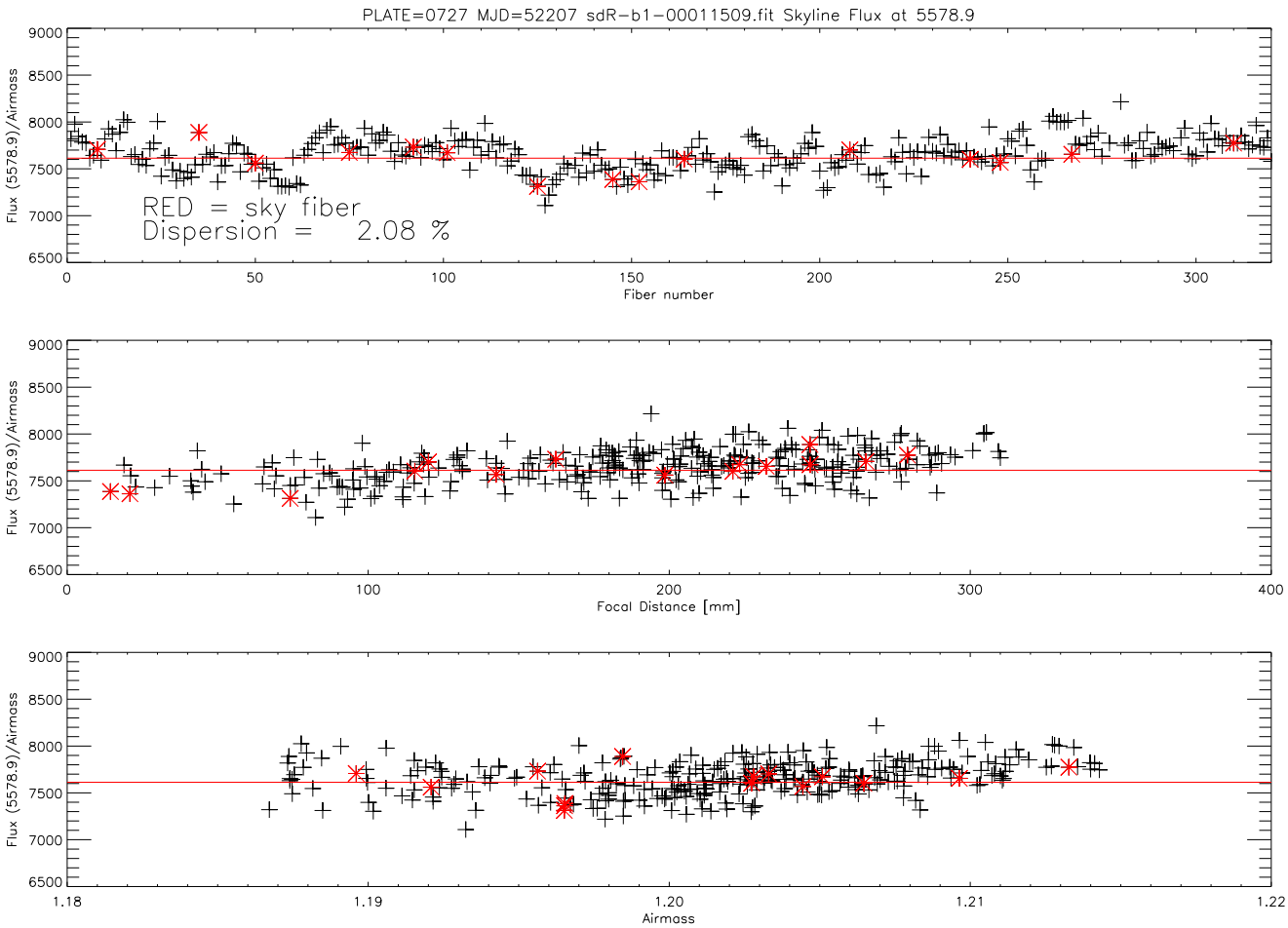

PLATE=0727 MJD=52207 sdR-b1-00011509.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

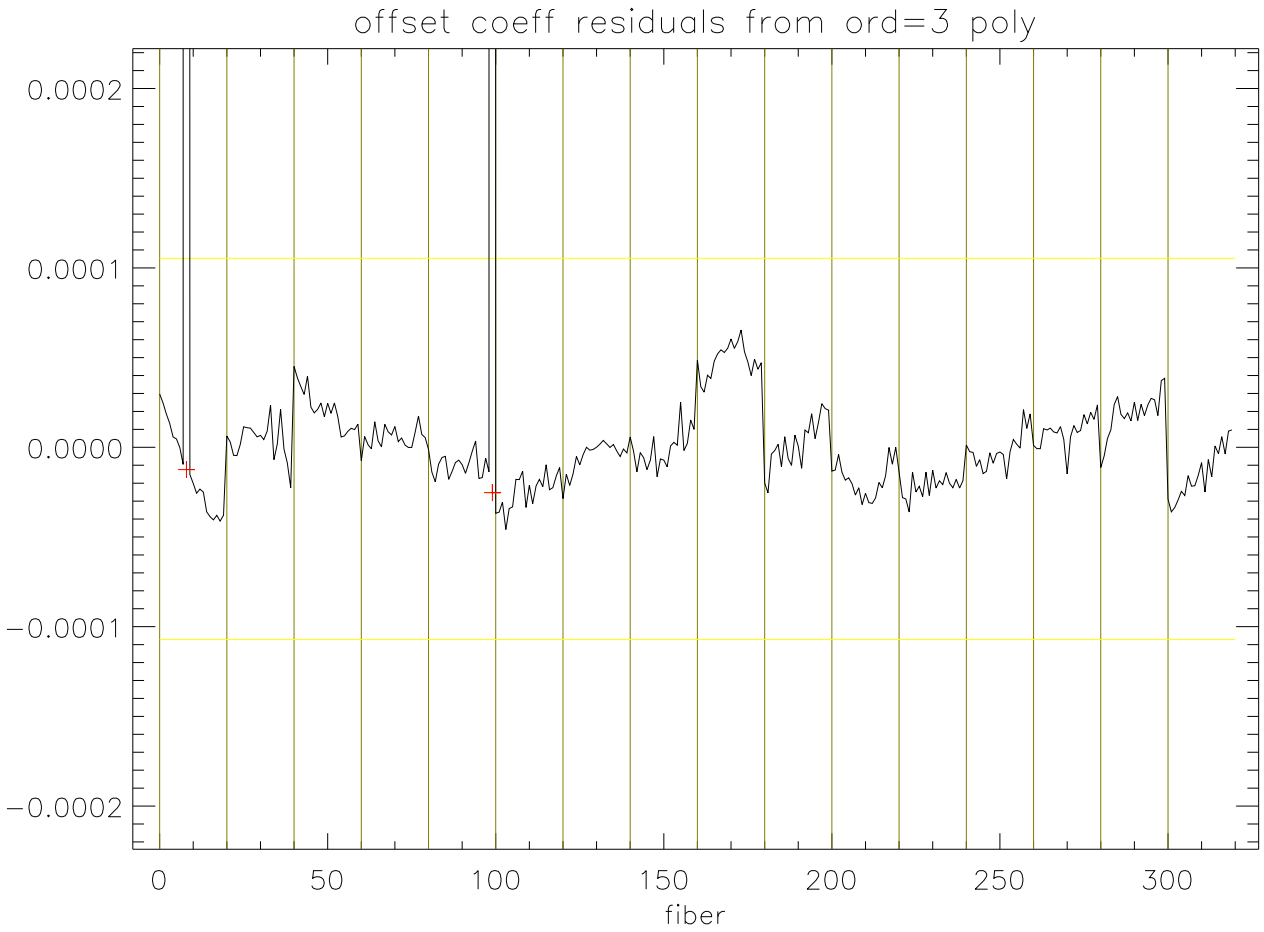

PLATE=0727 MJD=52207 sdR-b1-00011509.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

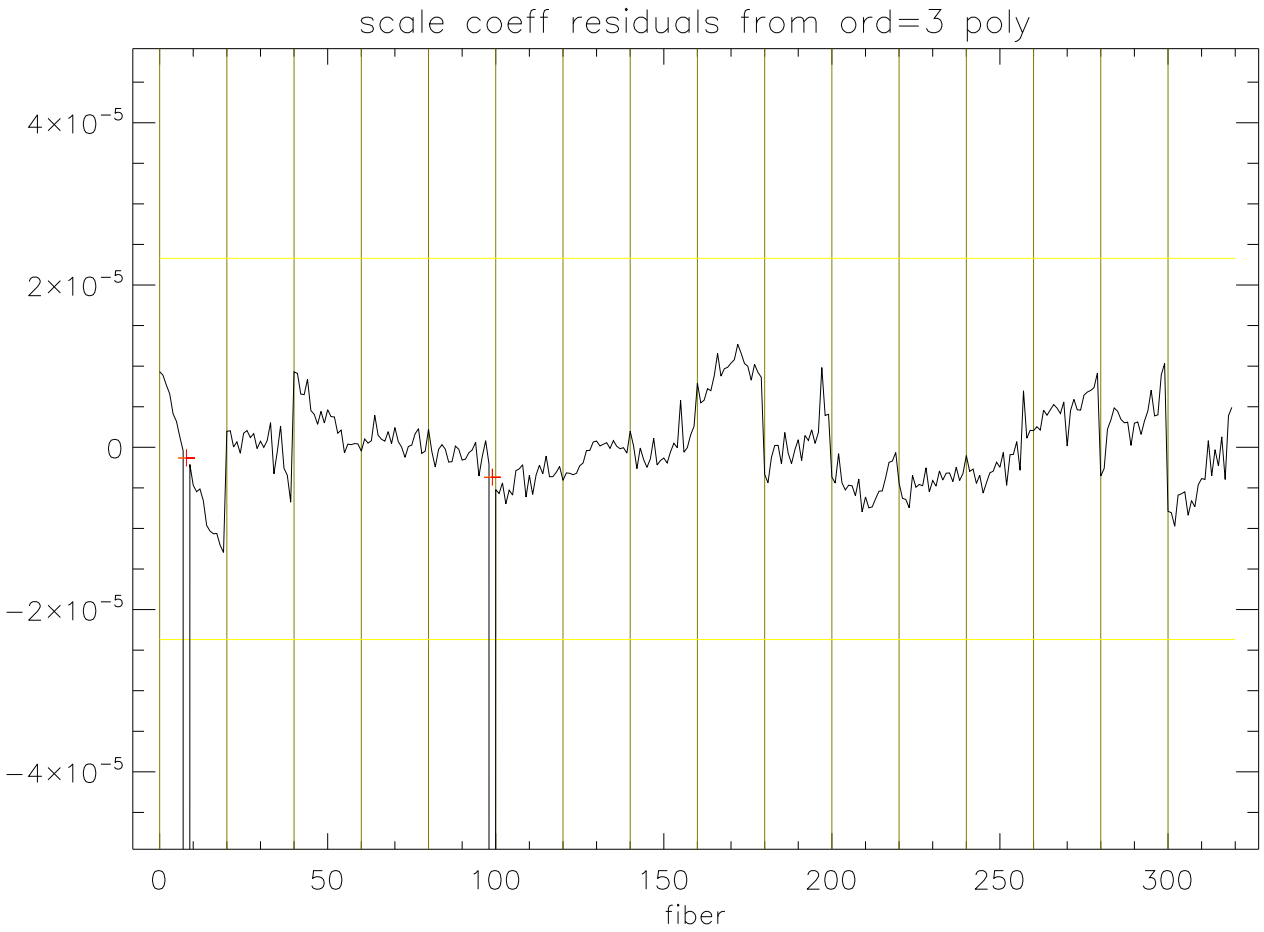

PLATE=0727 MJD=52207 sdR-b1-00011509.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

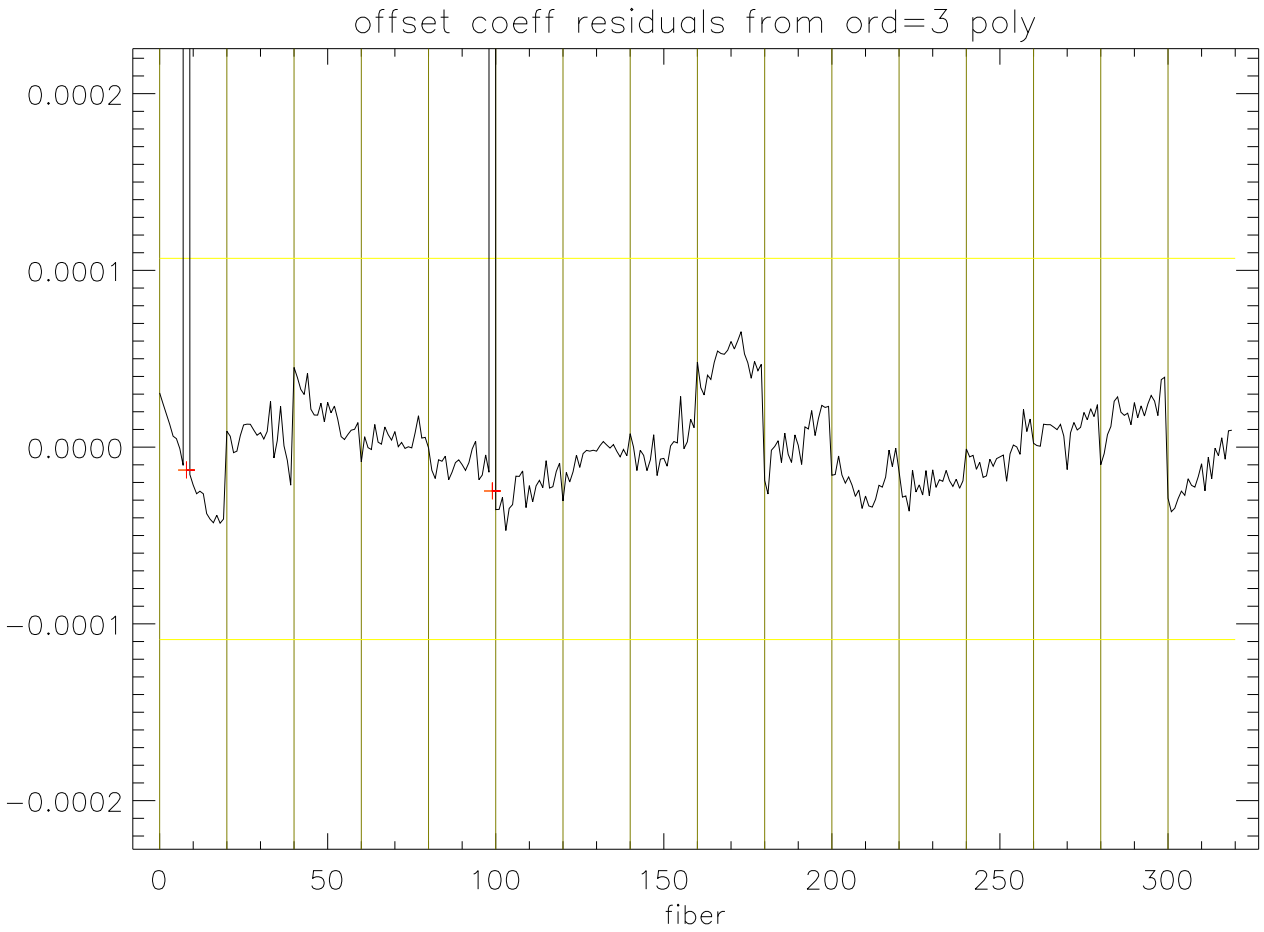

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b1-00011509.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

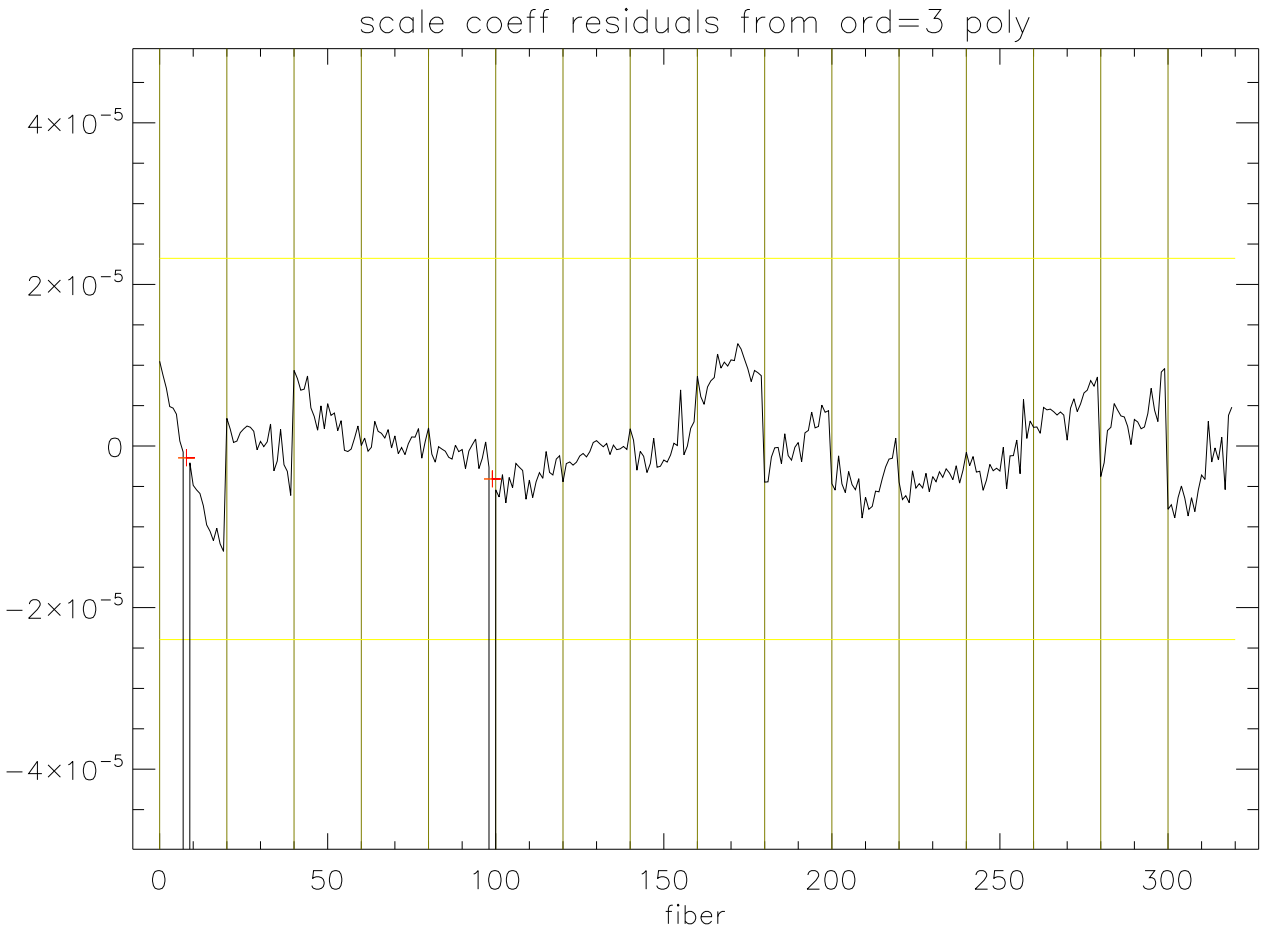

PLATE=0727 MJD=52207 sdR-b1-00011509.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 52.73 %
Fiber number
Focal Distance [mm]
Airmass

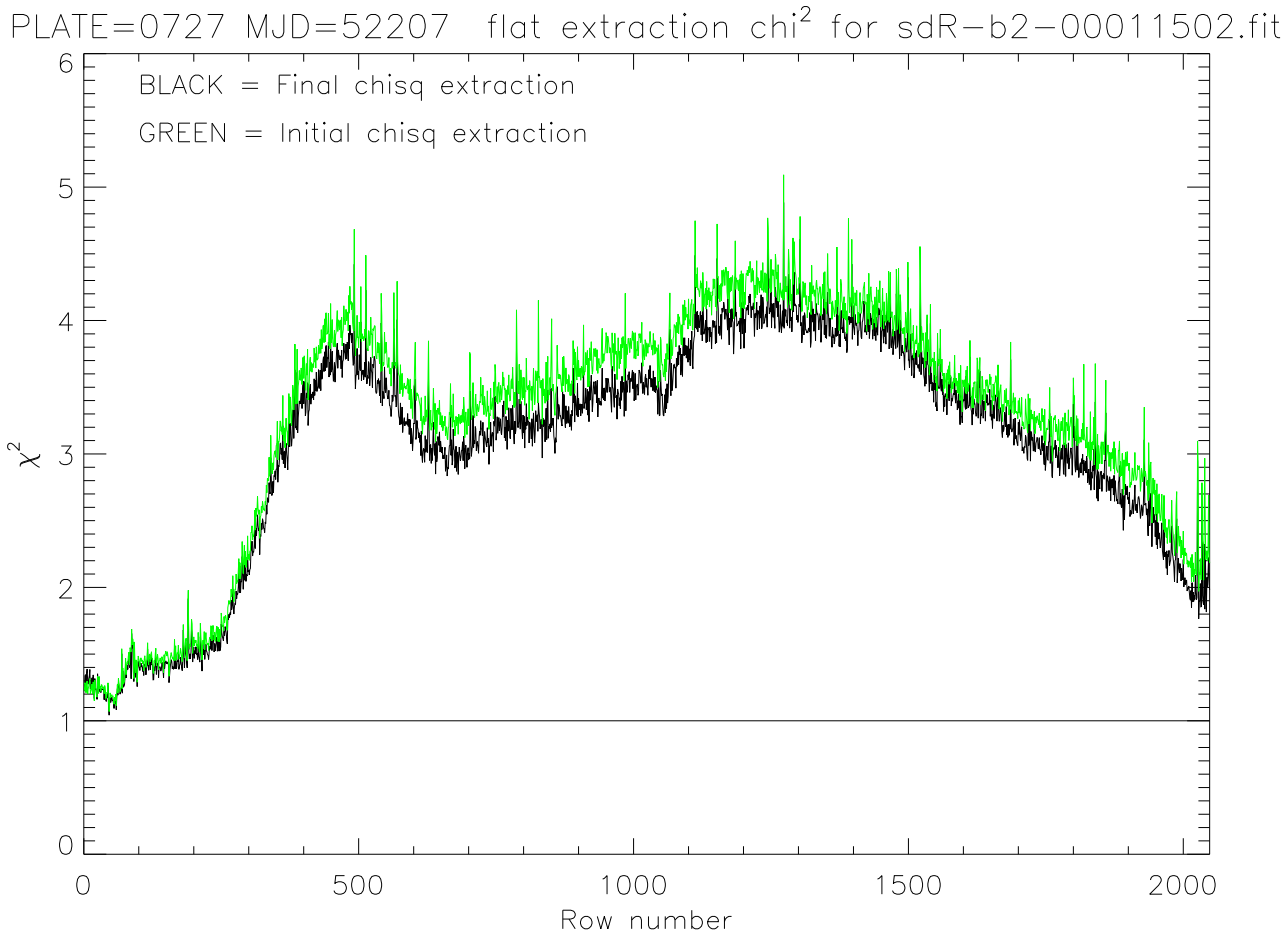

PLATE=0727 MJD=52207 sdR-b1-00011509.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.08 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

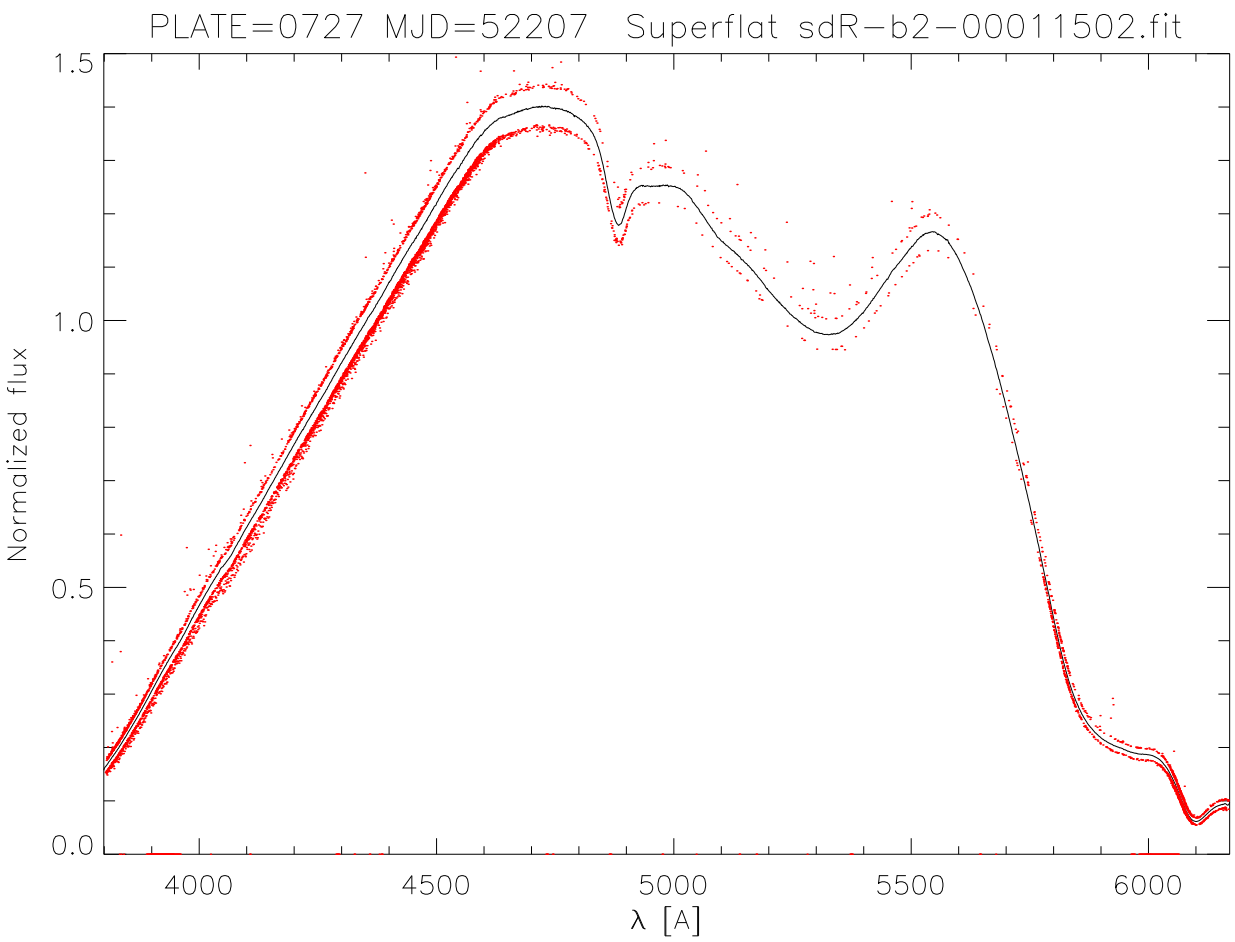

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

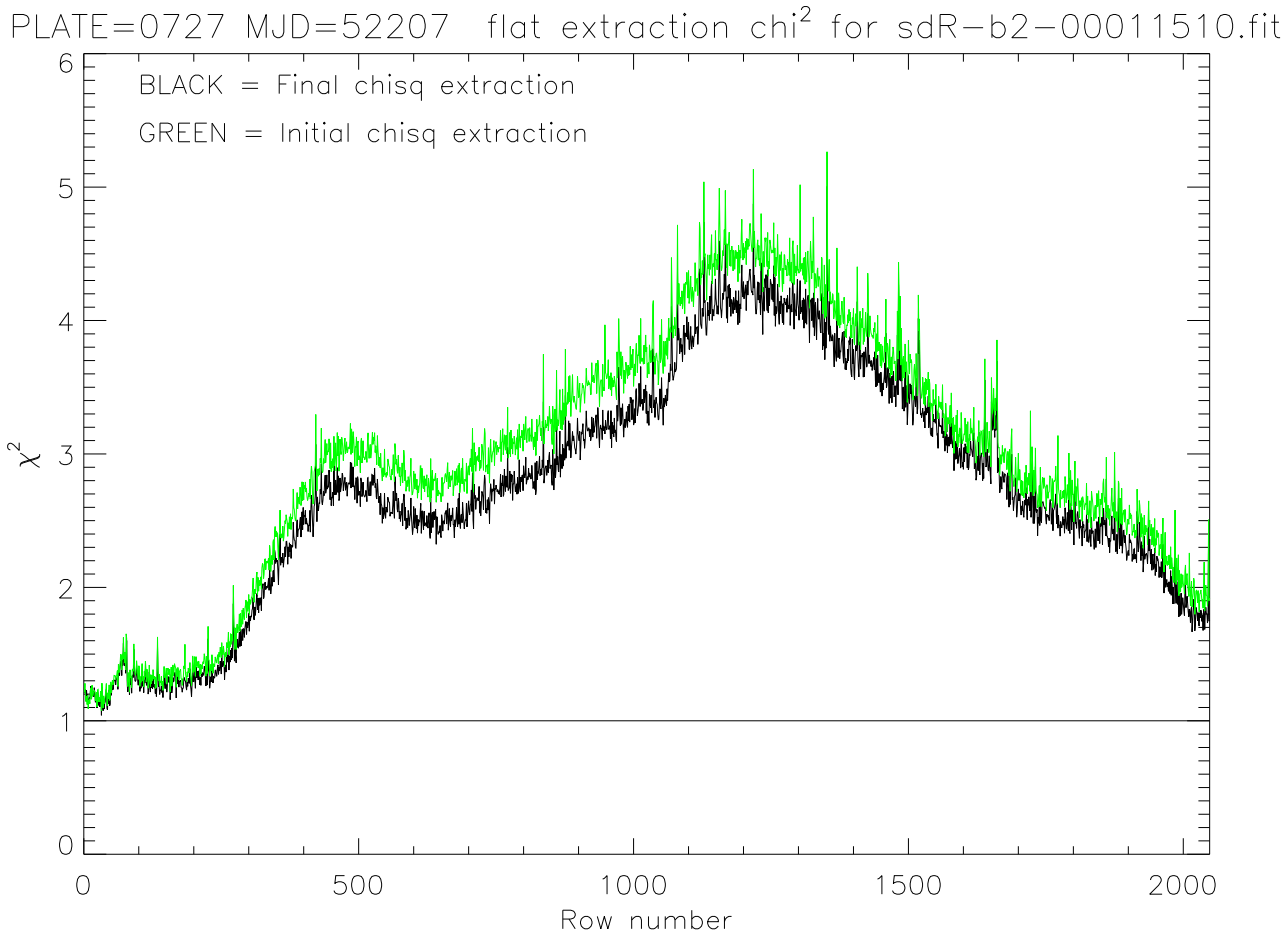

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

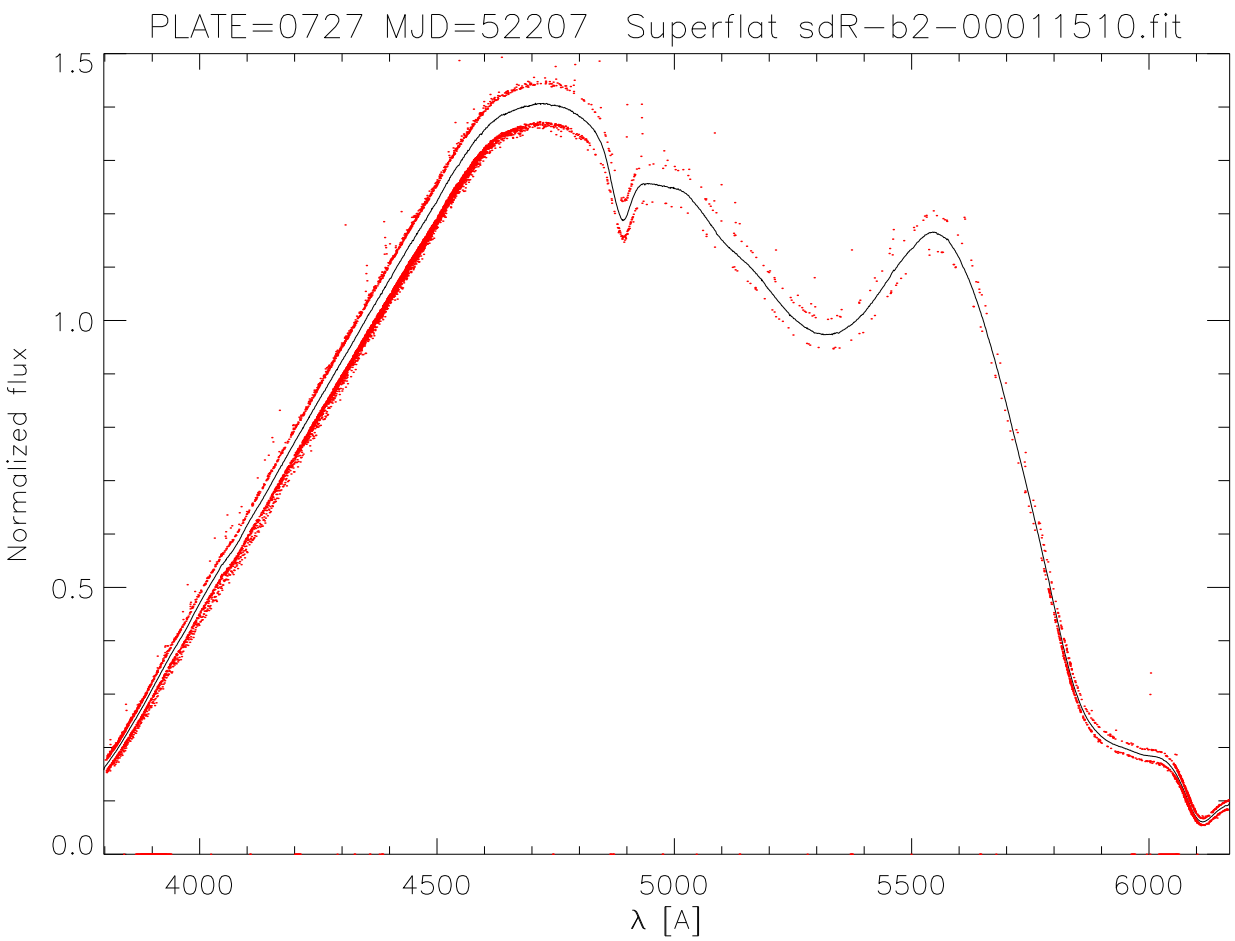

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

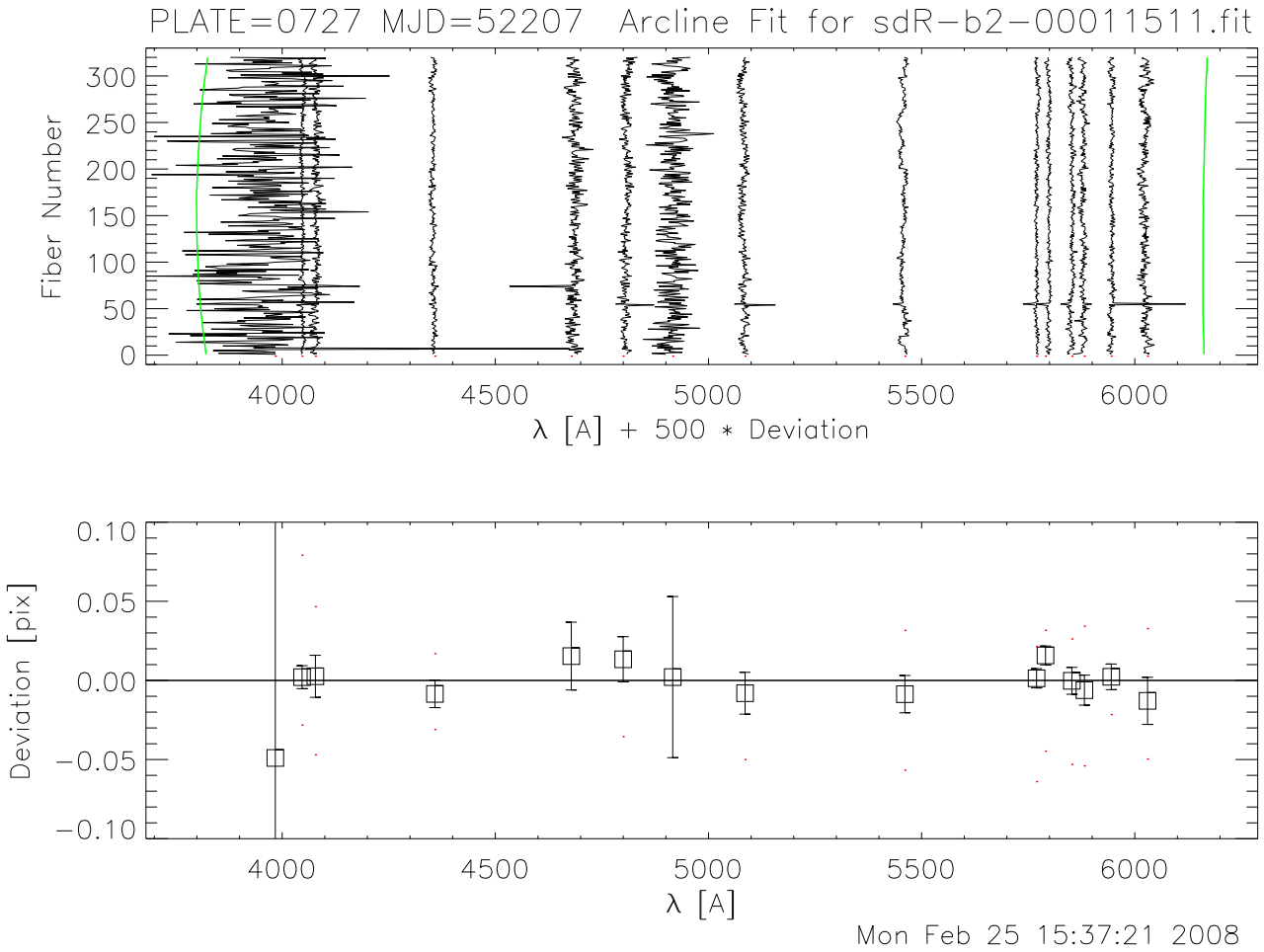

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

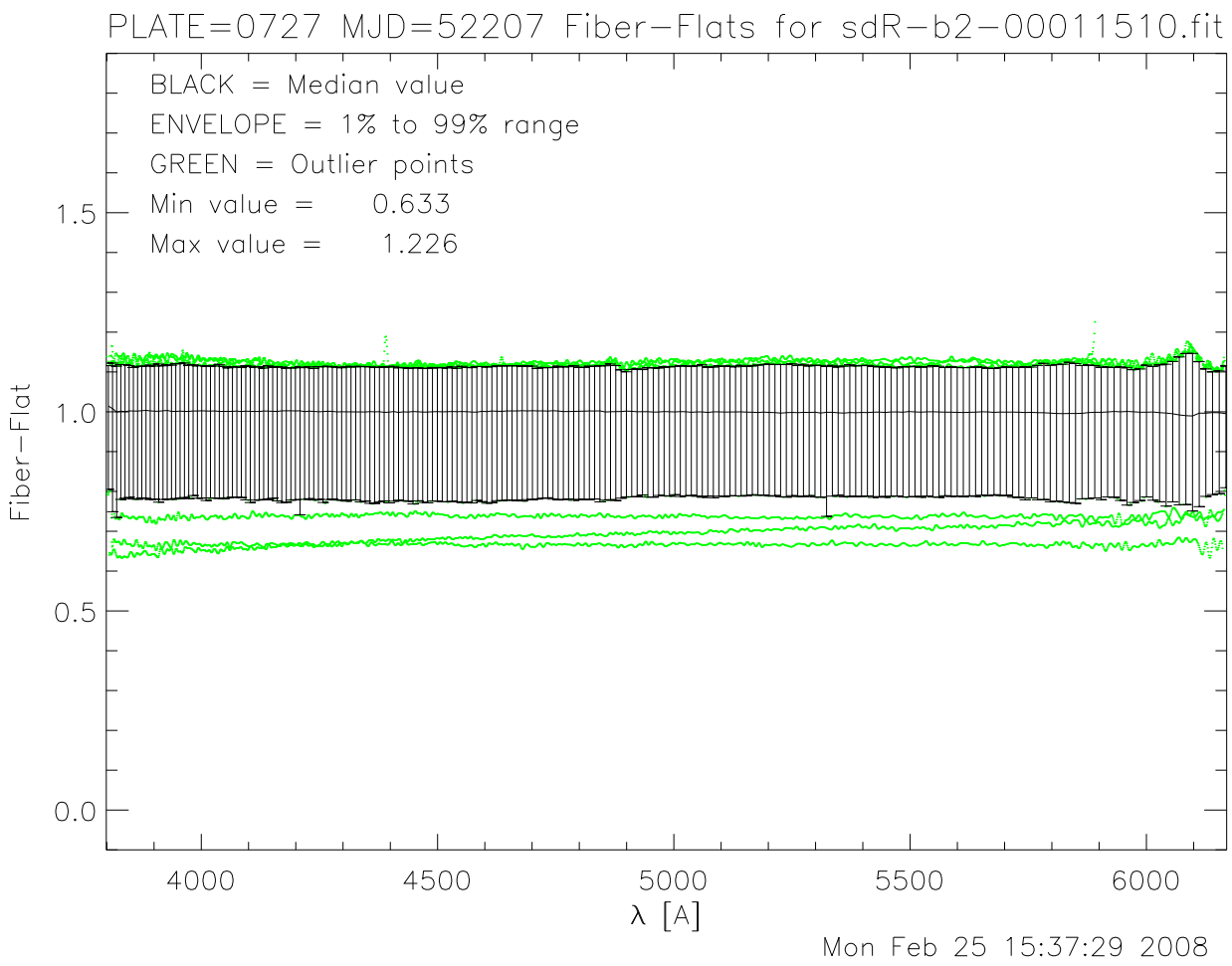

PLATE=0727 MJD=52207 flat extraction chi^2 for sdR−b2−00011502.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

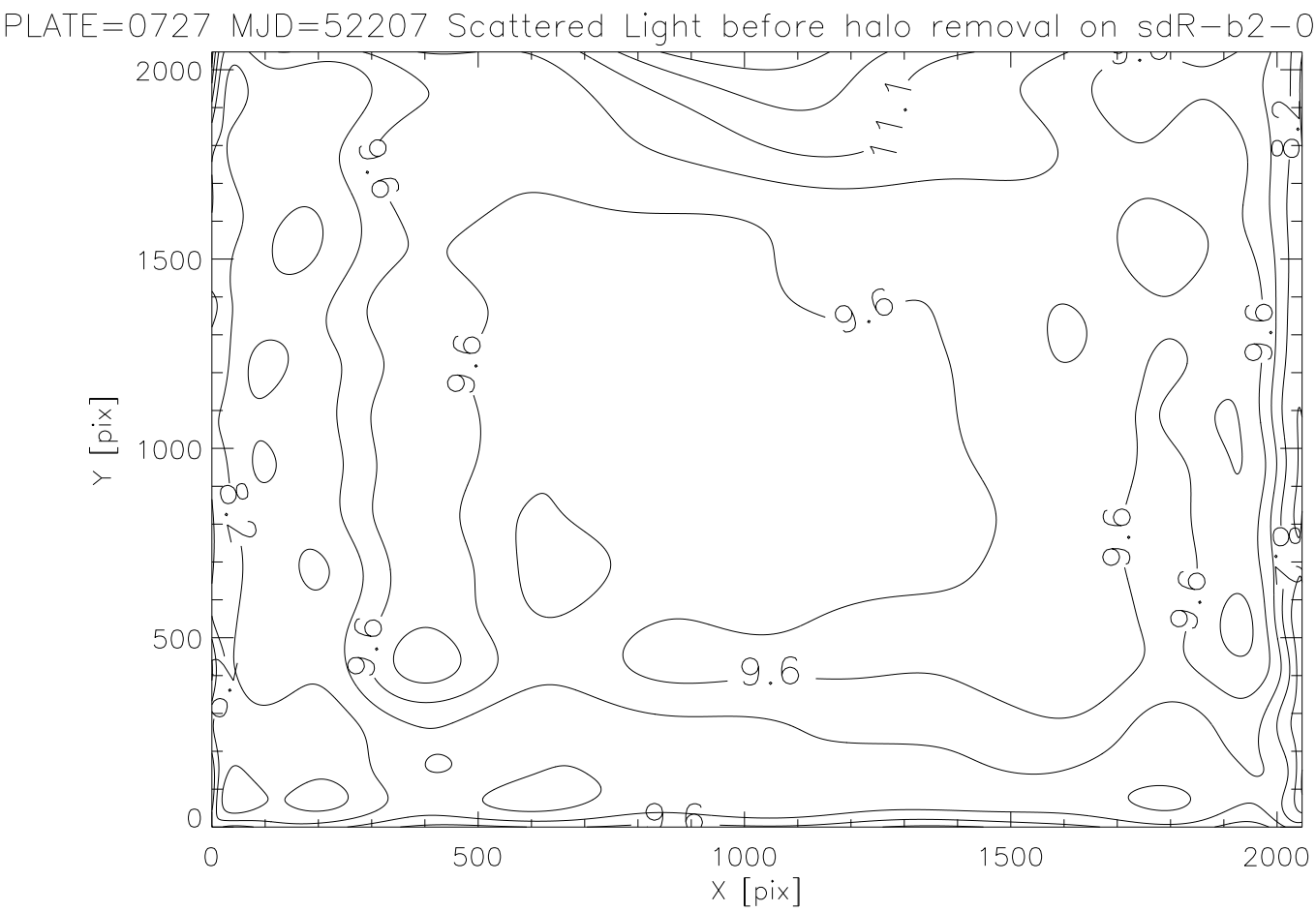

PLATE=0727 MJD=52207 Superflat sdR-b2-00011502.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

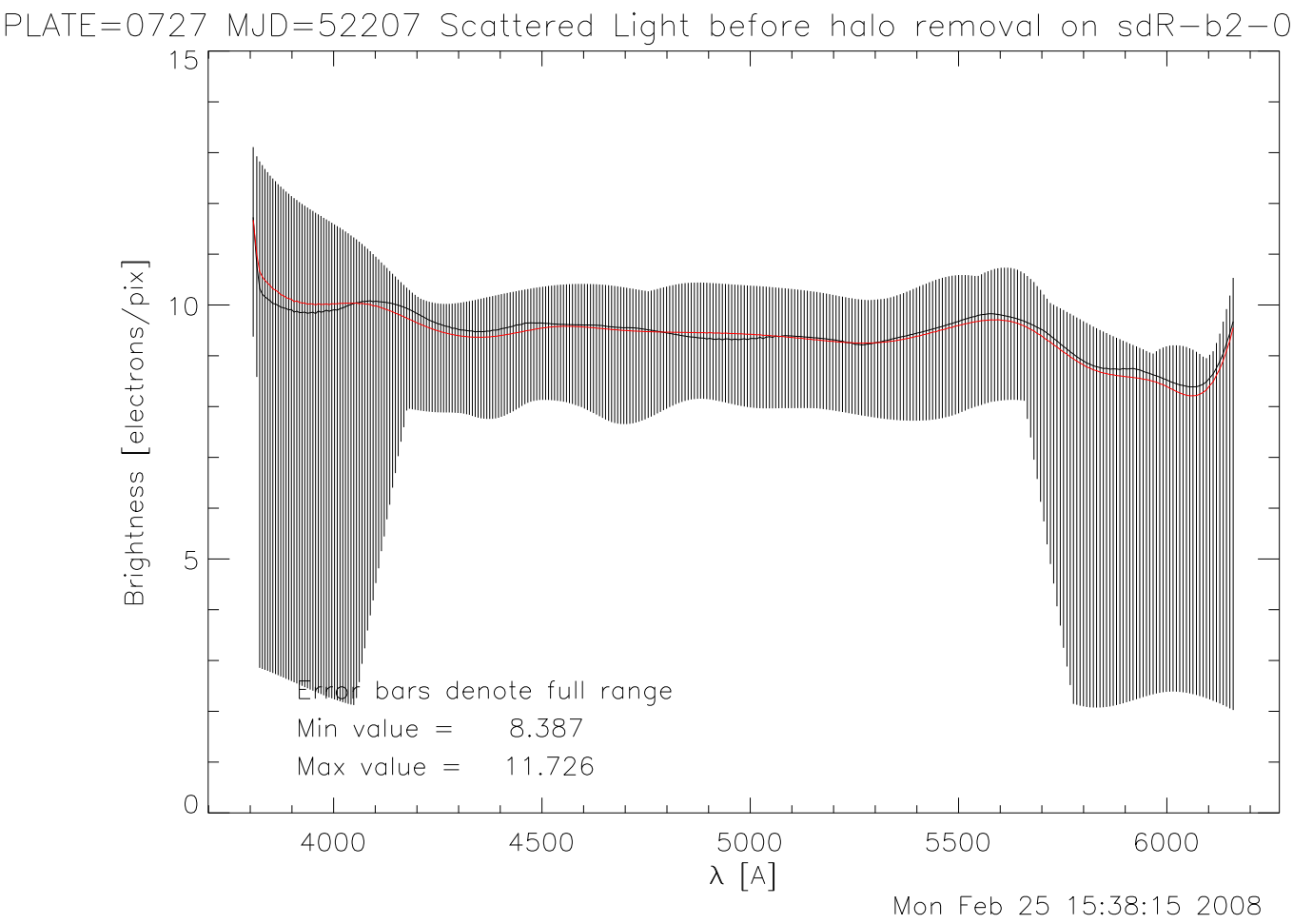

PLATE=0727 MJD=52207 flat extraction chi^2 for sdR−b2−00011510.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

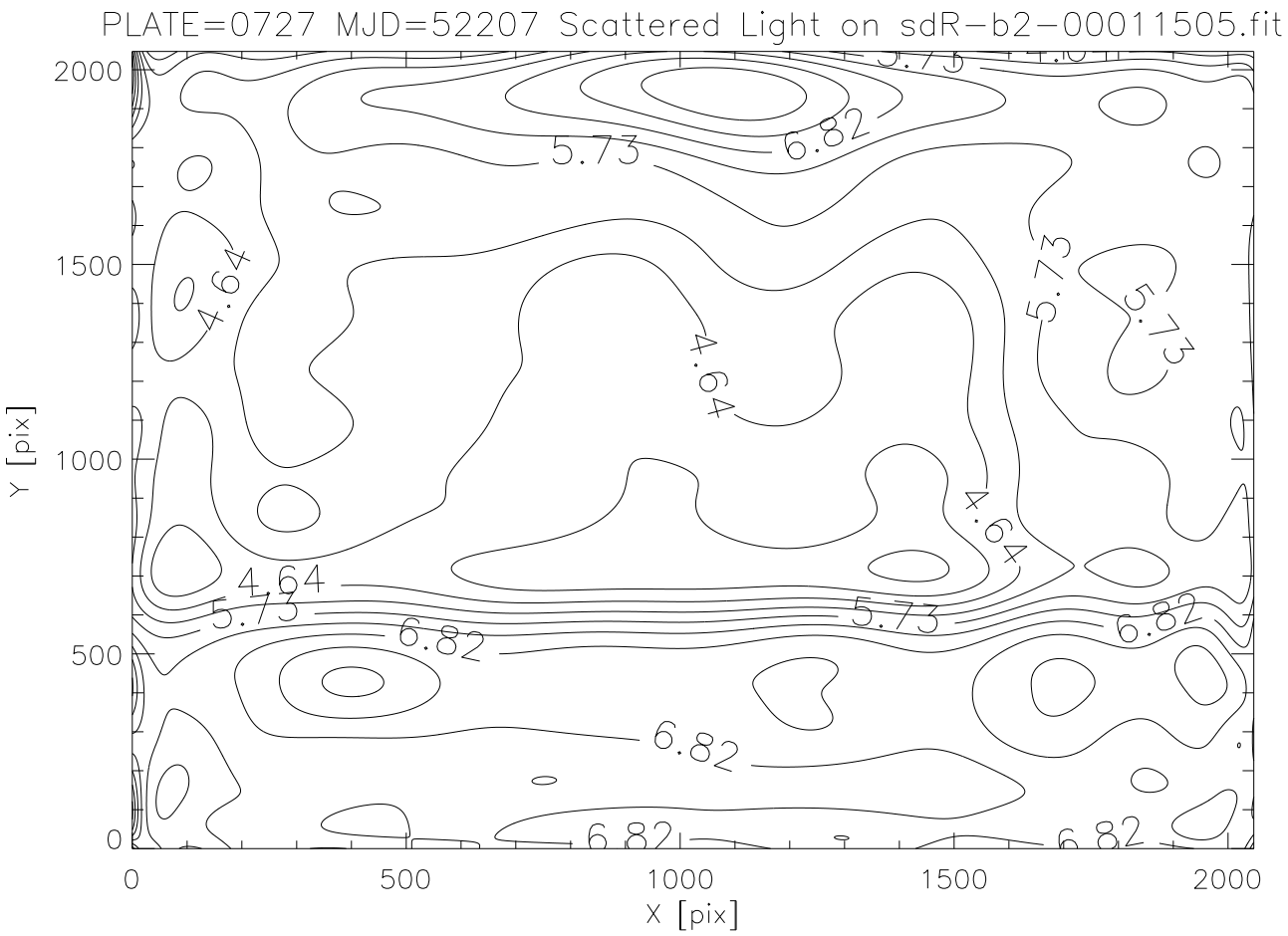

PLATE=0727 MJD=52207 Superflat sdR-b2-00011510.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

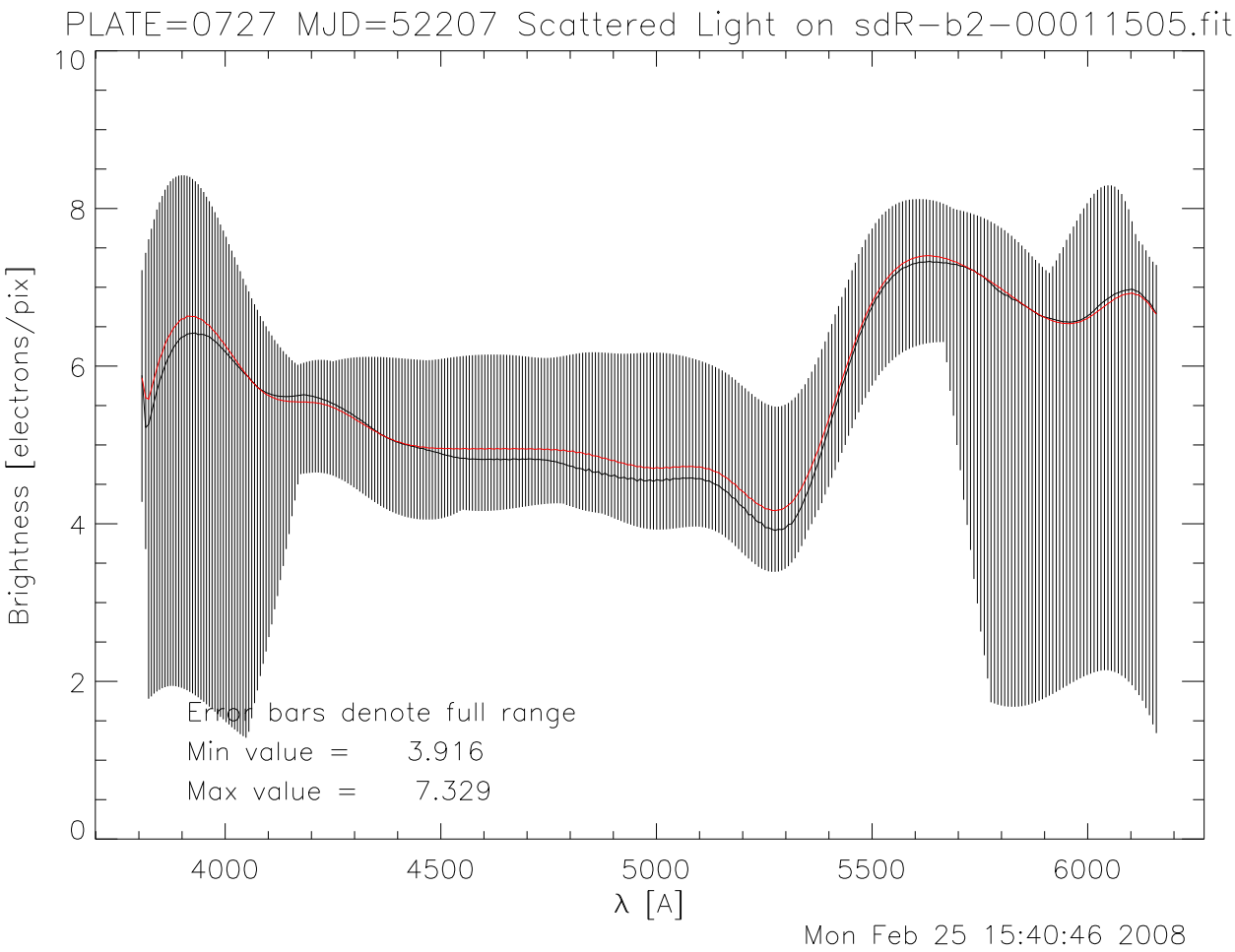

PLATE=0727 MJD=52207 Arcline Fit for sdR-b2-00011511.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:37:21 2008

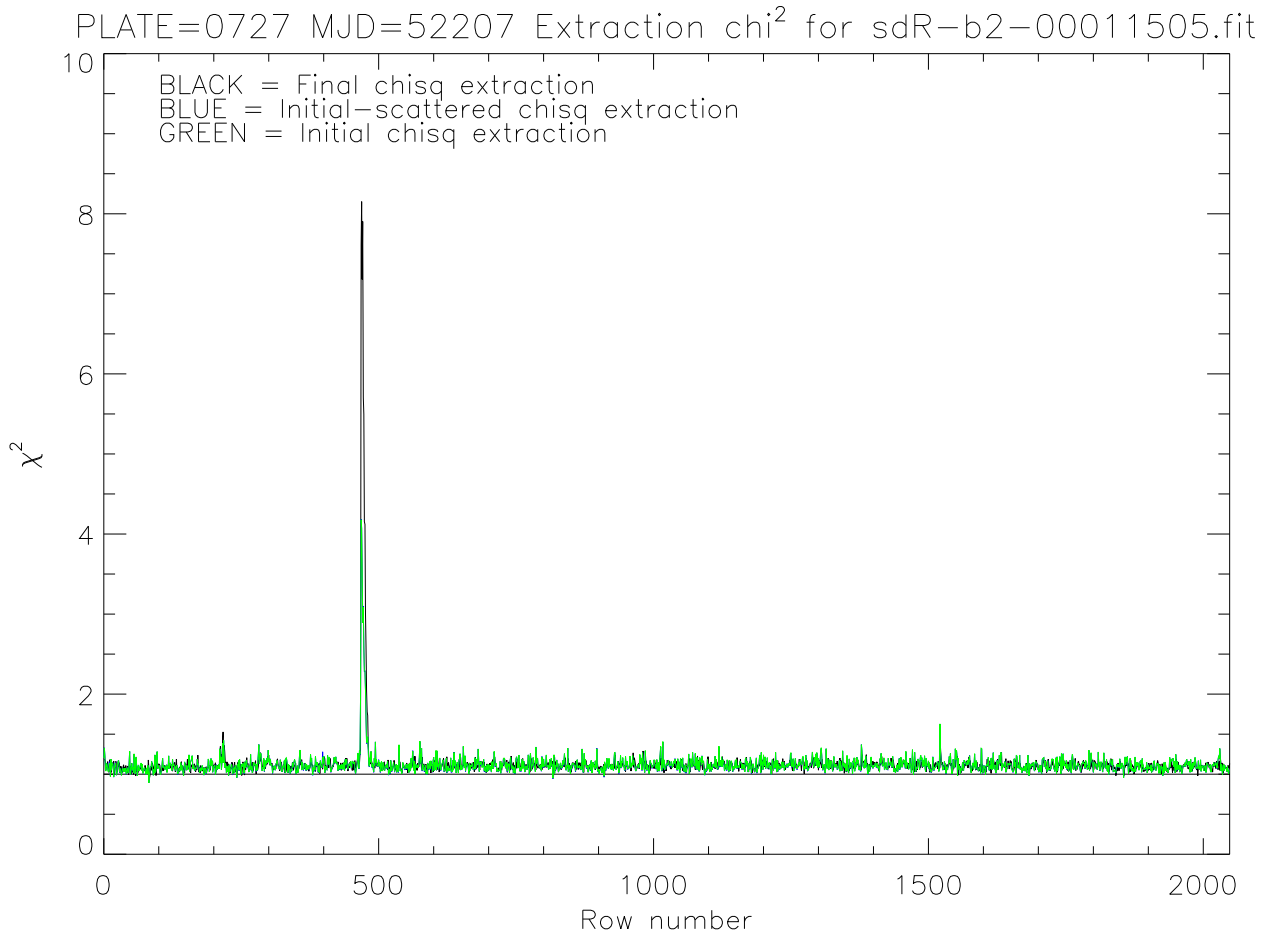

PLATE=0727 MJD=52207 Fiber-Flats for sdR-b2-00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.633
Max value = 1.226
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:37:29 2008

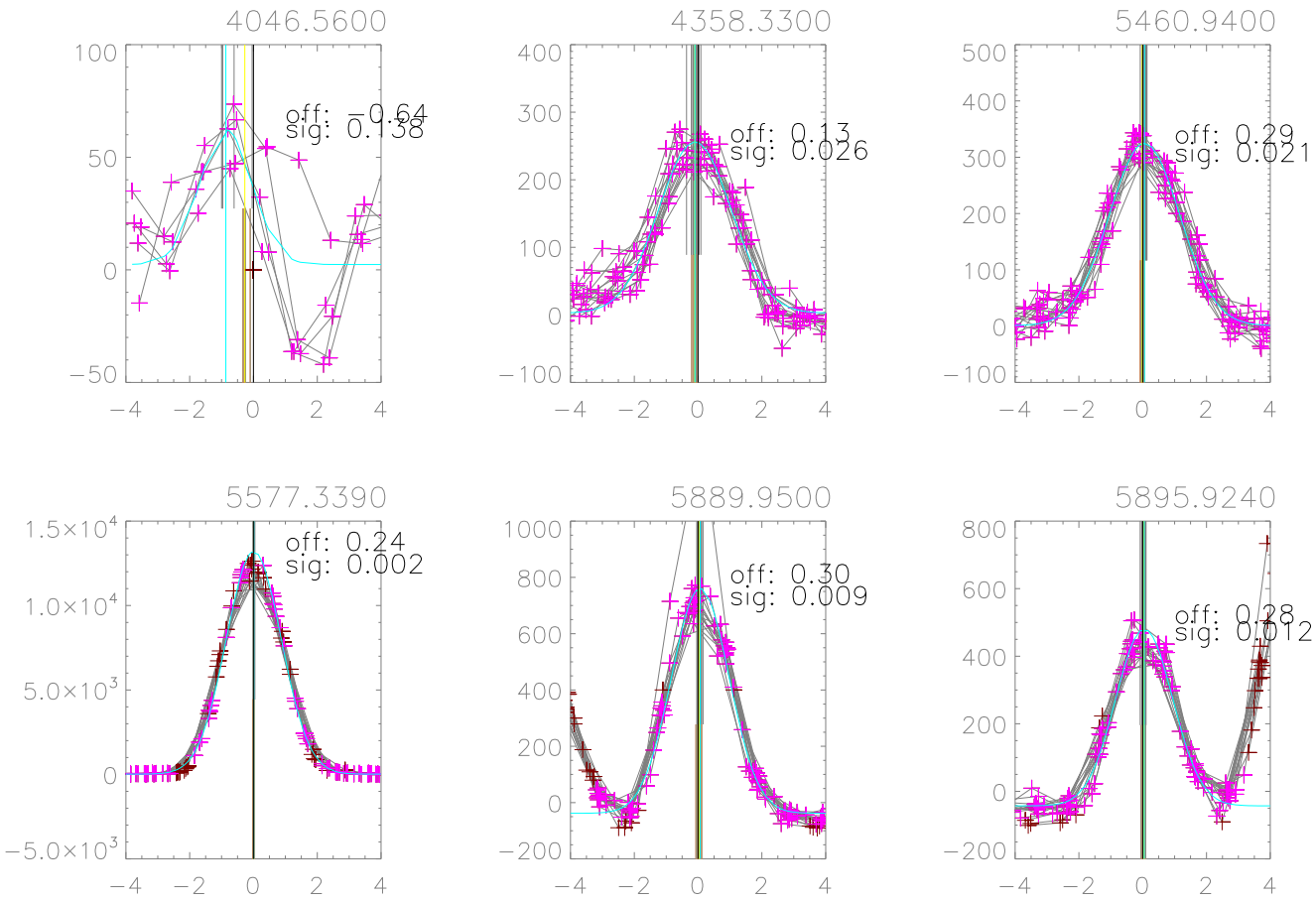

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR−b2−00011505.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
11.1
9.6
8.2
7.8

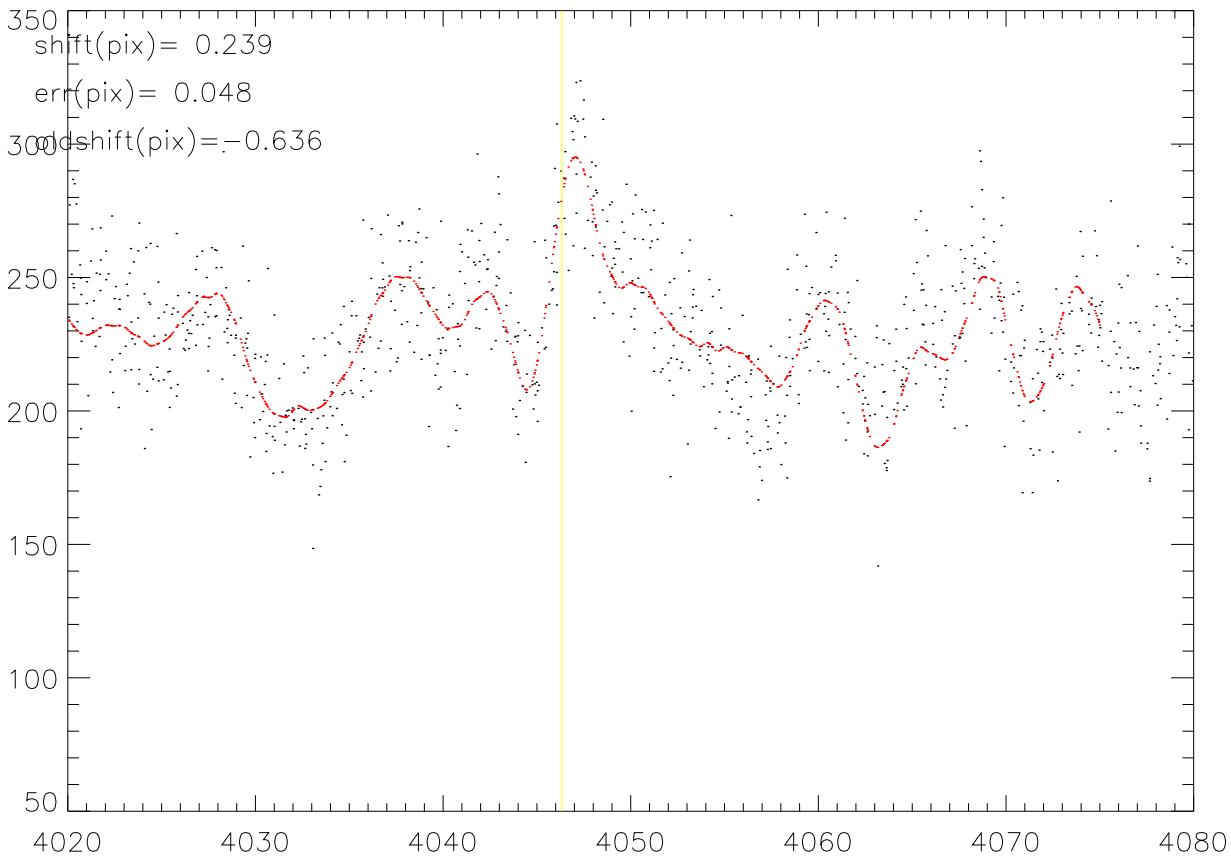

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-b2-00011505.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.387
Max value = 11.726
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:38:15 2008

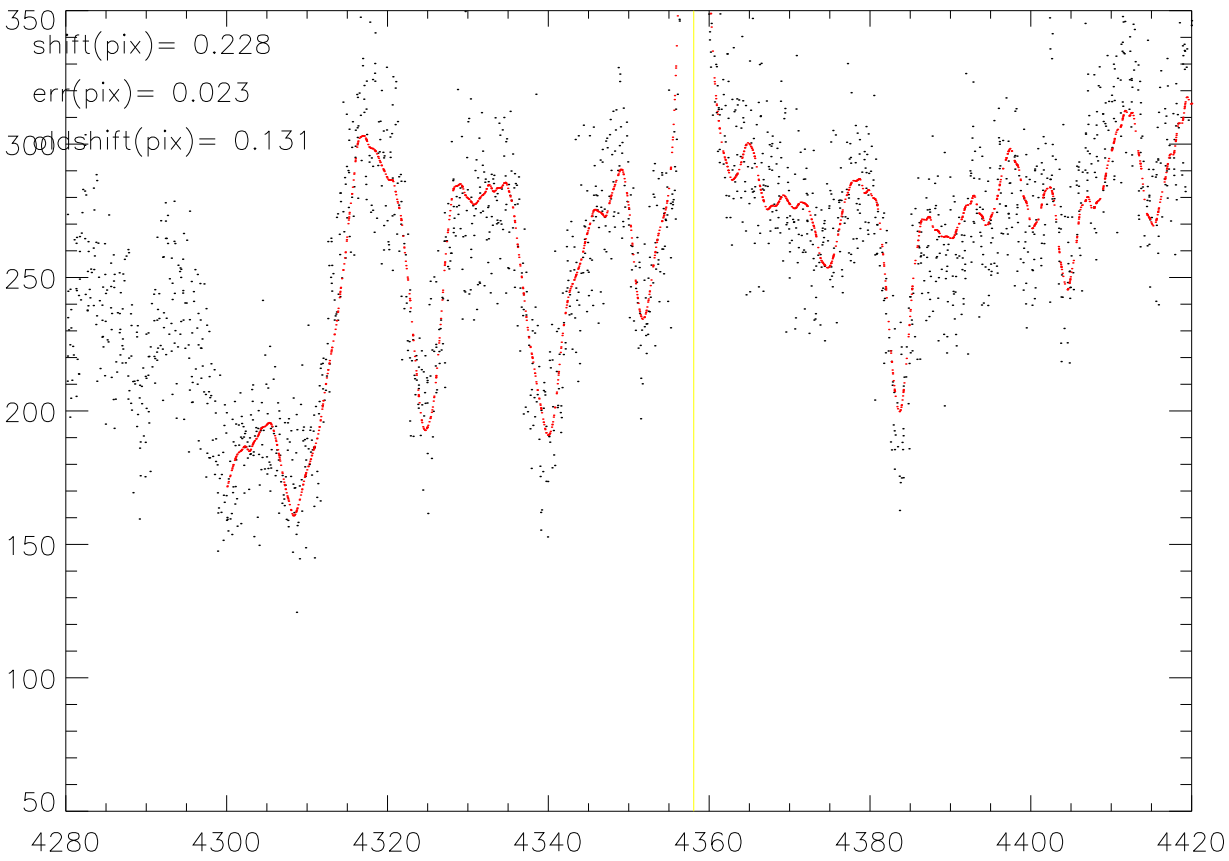

PLATE=0727 MJD=52207 Scattered Light on sdR-b2-00011505.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.64
5.73
6.82

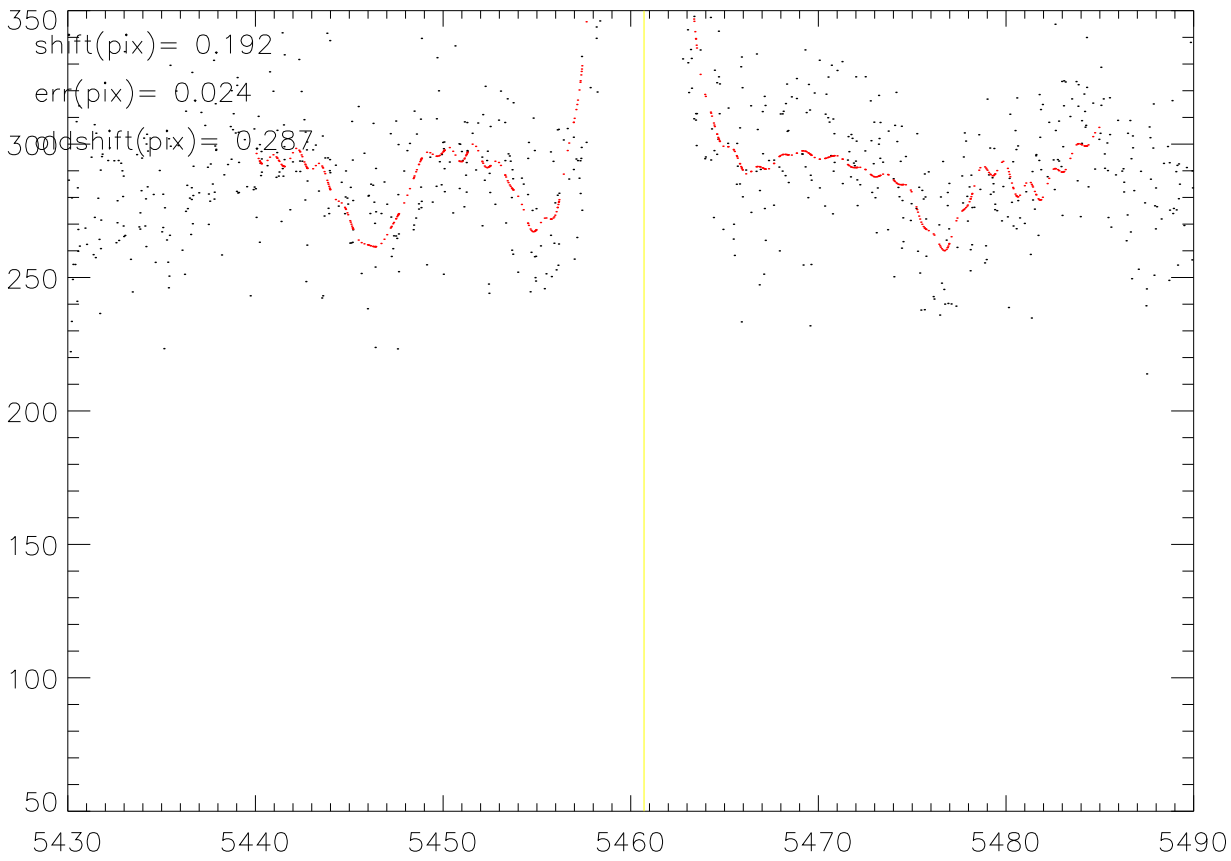

PLATE=0727 MJD=52207 Scattered Light on sdR-b2-00011505.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.916
Max value = 7.329
Mon Feb 25 15:40:46 2008

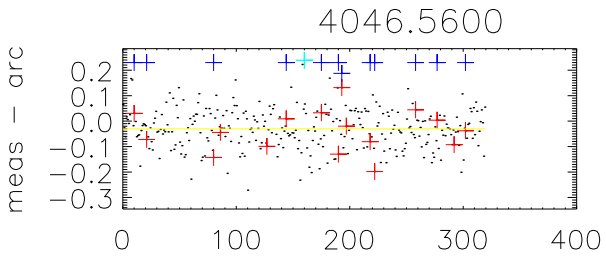

PLATE=0727 MJD=52207 Extraction chi^2 for sdR−b2−00011505.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

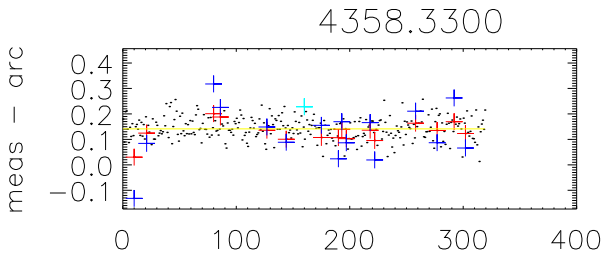

4046.5600
off: −0.64
sig: 0.138
4358.3300
off: 0.13
sig: 0.026
5460.9400
off: 0.29
sig: 0.021
5577.3390
off: 0.24
sig: 0.002
5889.9500
off: 0.30
sig: 0.009
5895.9240
off: 0.28
sig: 0.012

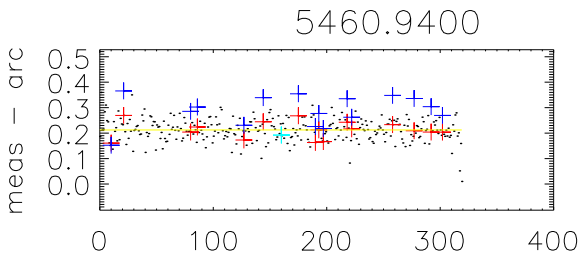

shift(pix)= 0.239
err(pix)= 0.048
oldshift(pix)=-0.636
350
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

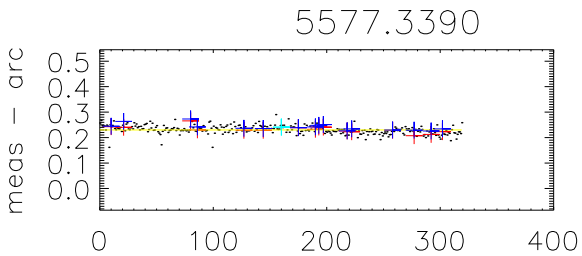

shift(pix)= 0.228
err(pix)= 0.023
oldshift(pix)= 0.131
350
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

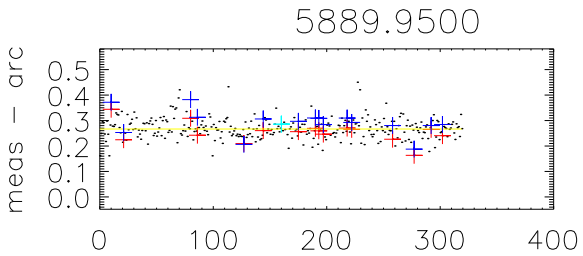

shift(pix)= 0.192
err(pix)= 0.024
oldshift(pix)= 0.287
350
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

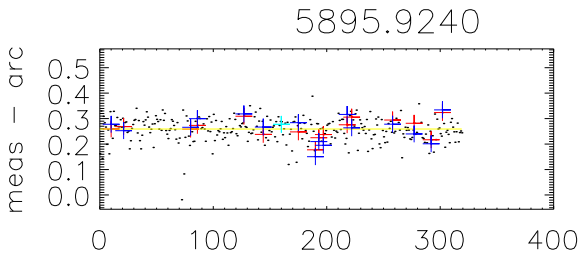

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

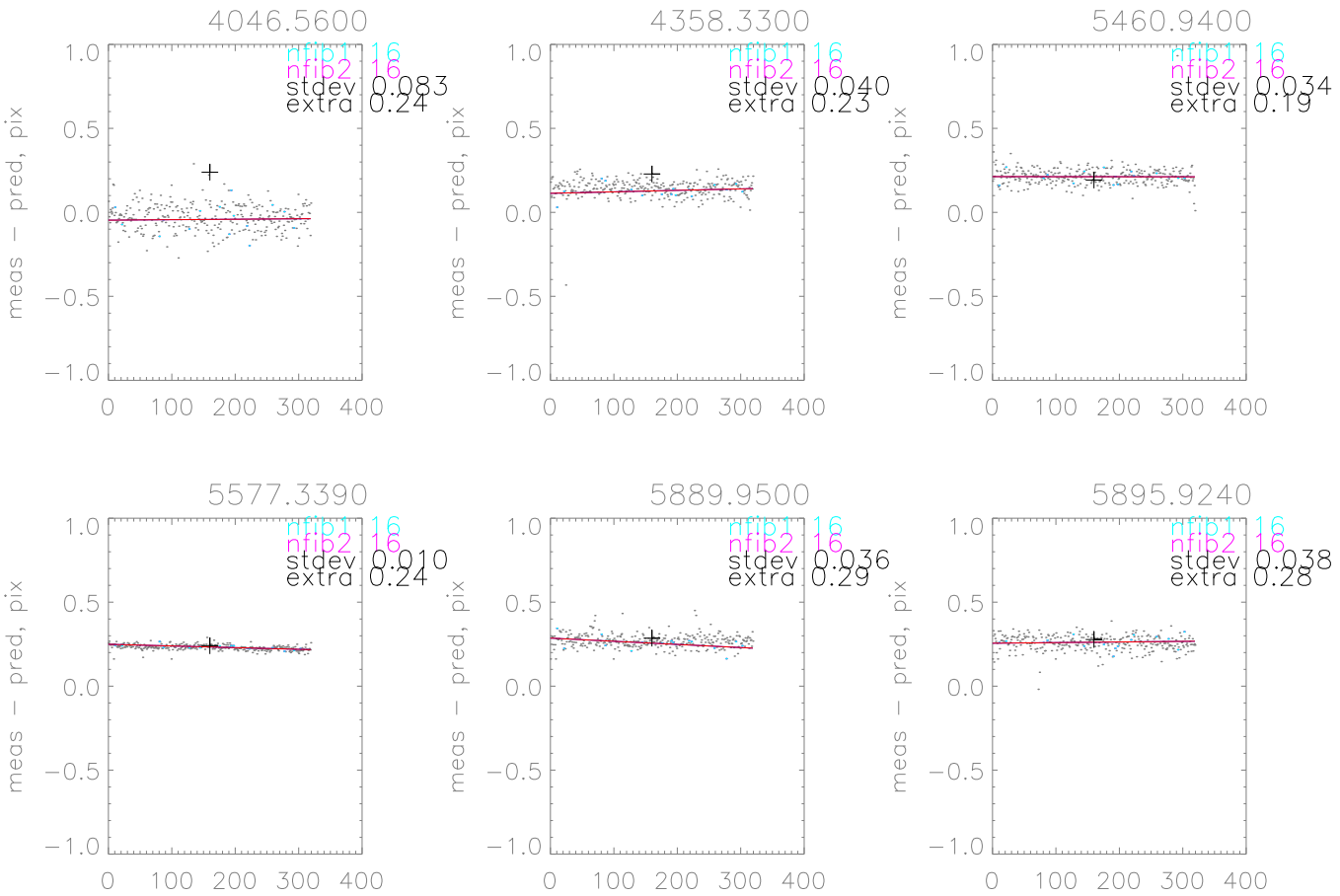

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

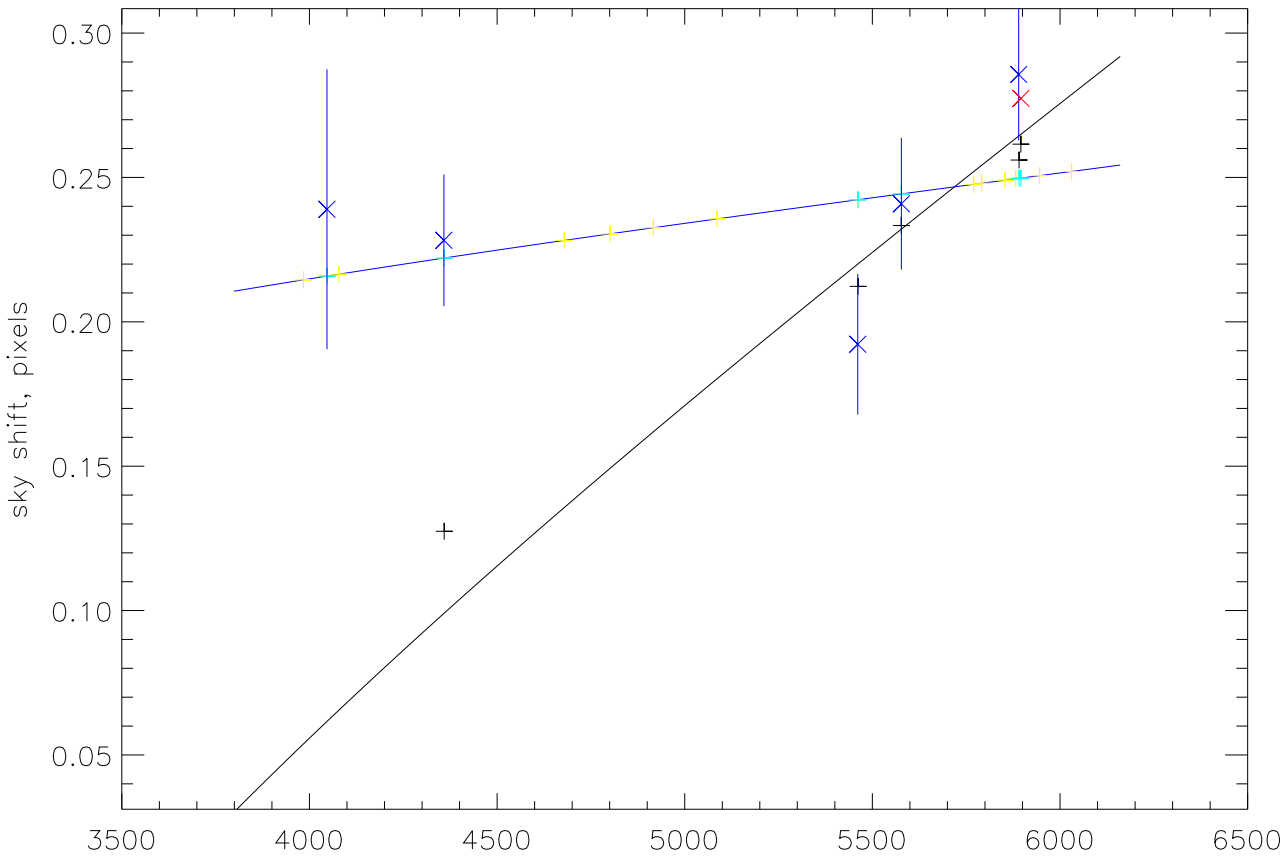

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

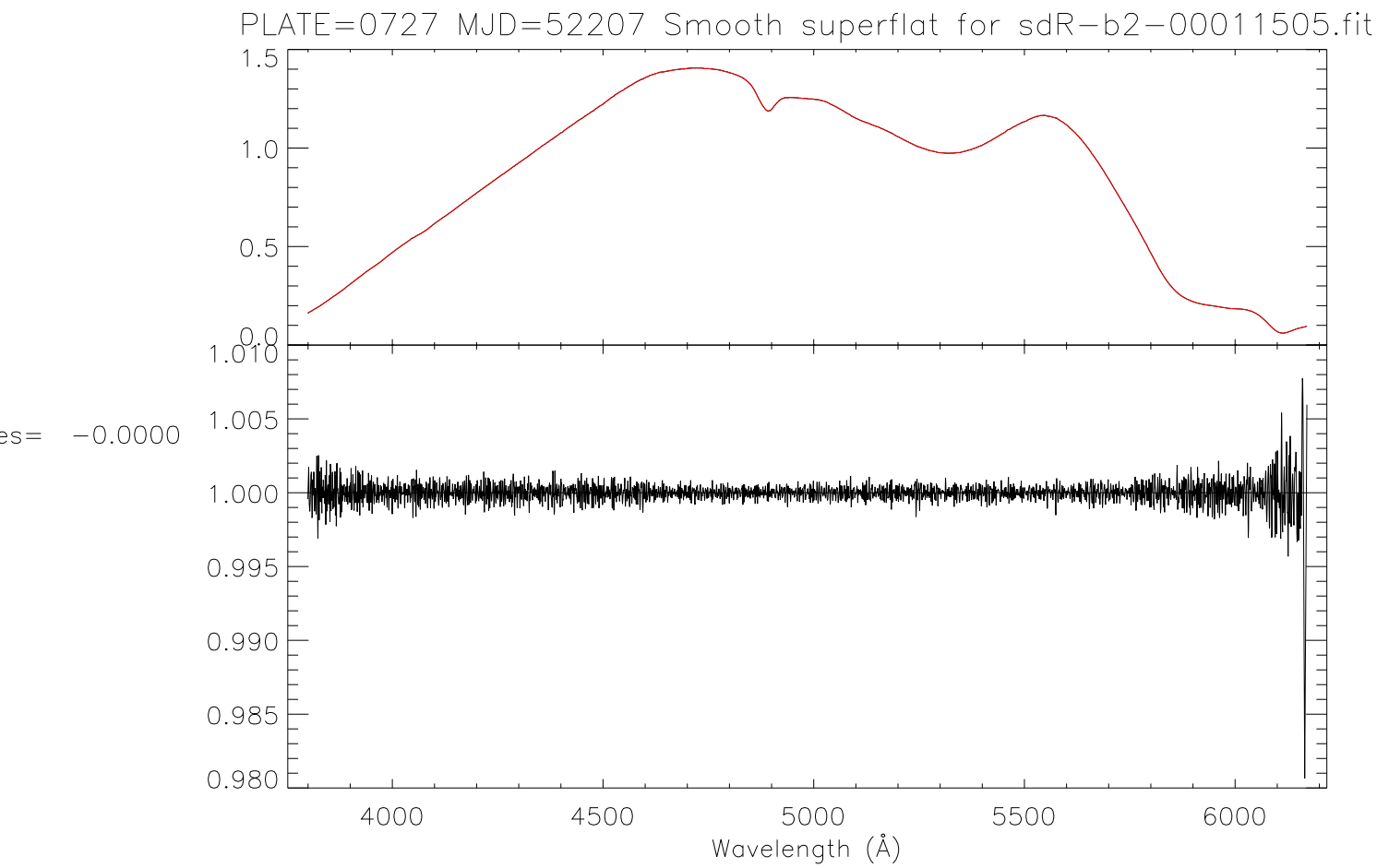

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

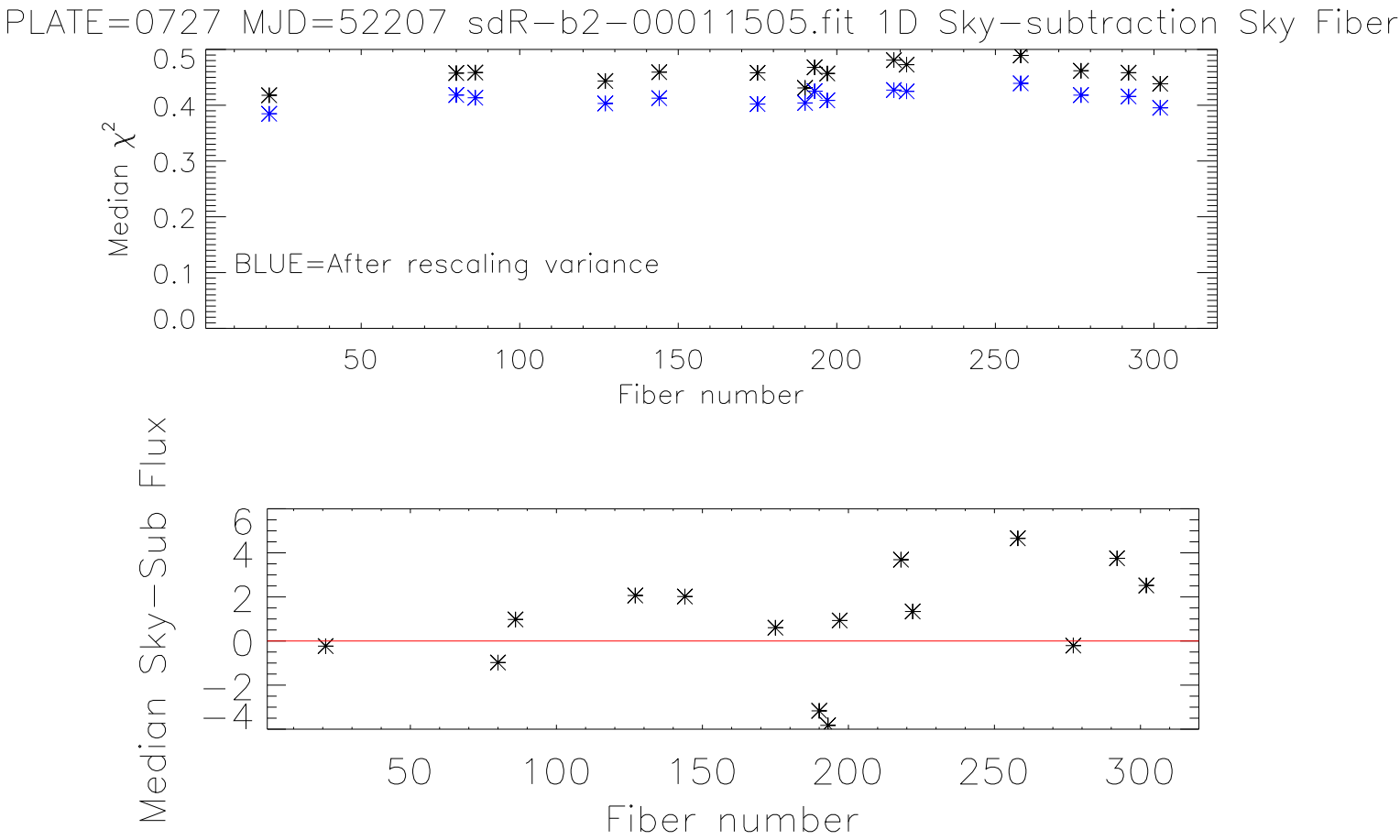

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

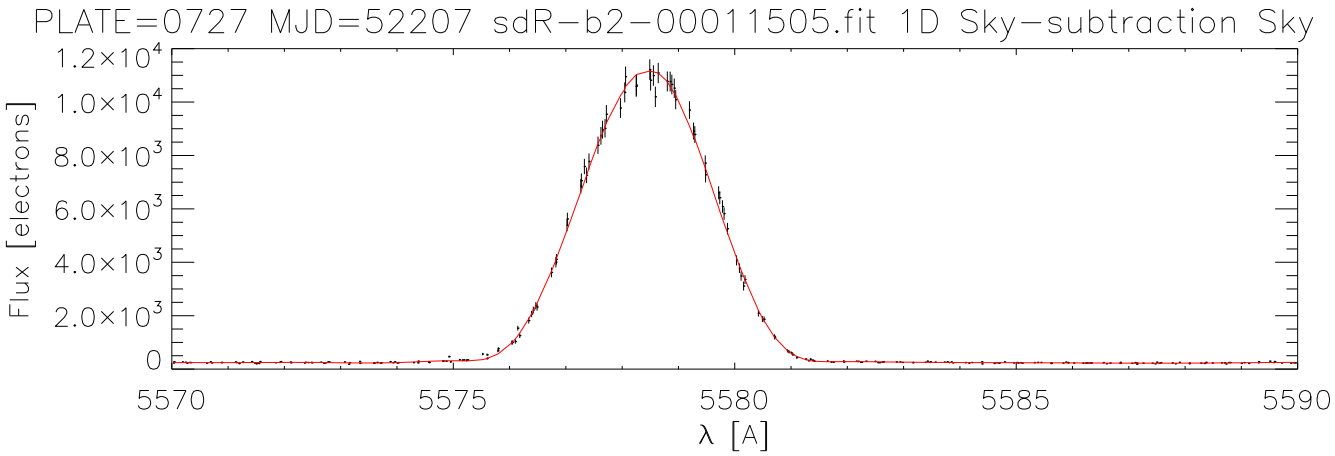

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

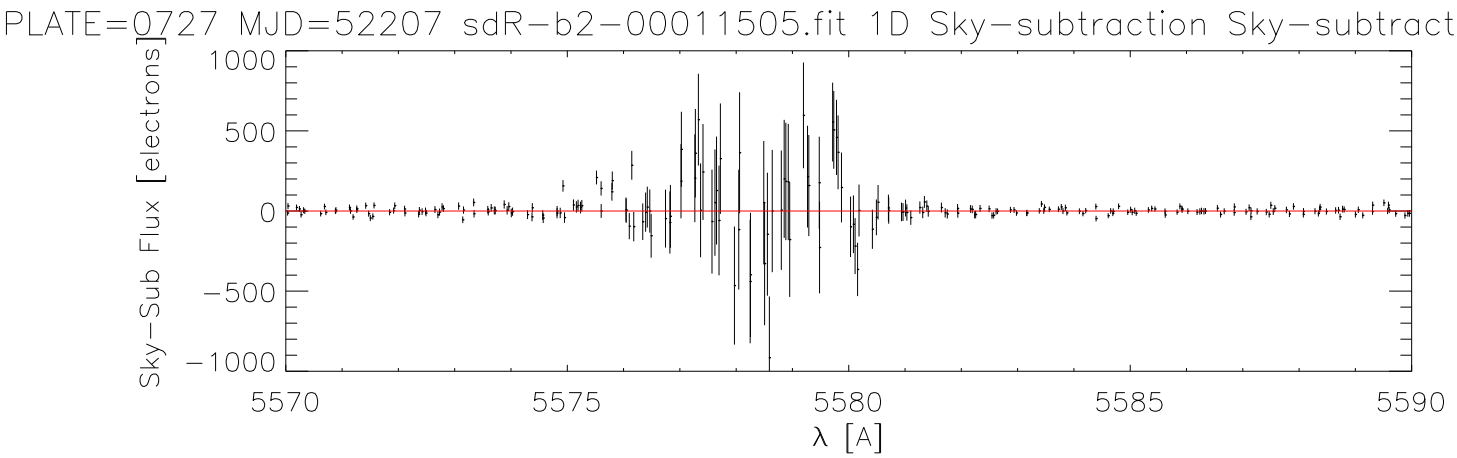

4046.5600
nfib1 16
nfib2 16
stdev 0.083
extra 0.24
4358.3300
nfib1 16
nfib2 16
stdev 0.040
extra 0.23
5460.9400
nfib1 16
nfib2 16
stdev 0.034
extra 0.19
5577.3390
nfib1 16
nfib2 16
stdev 0.010
extra 0.24
5889.9500
nfib1 16
nfib2 16
stdev 0.036
extra 0.29
5895.9240
nfib1 16
nfib2 16
stdev 0.038
extra 0.28
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

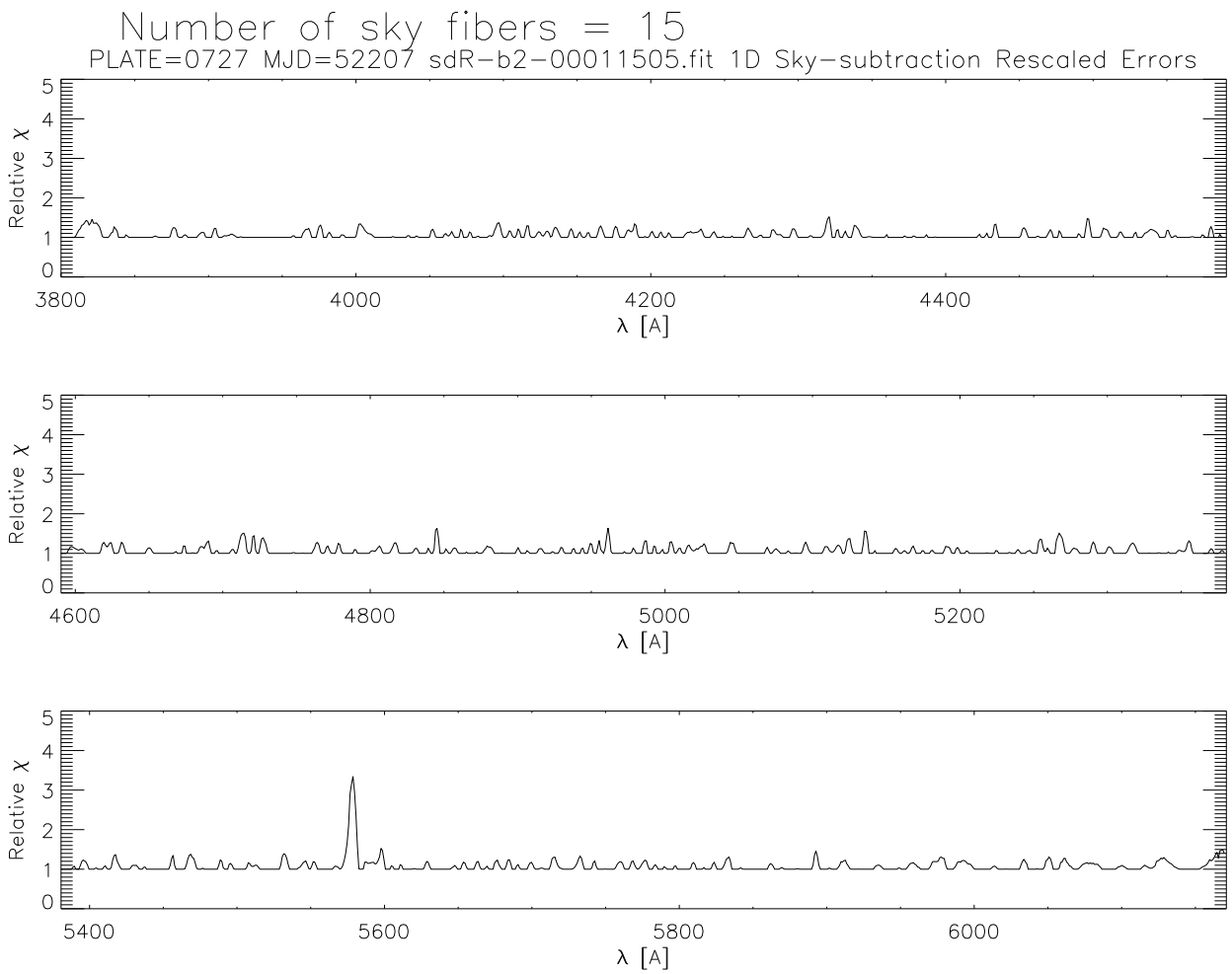

0.30
0.25
0.20
0.15
0.10
0.05
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

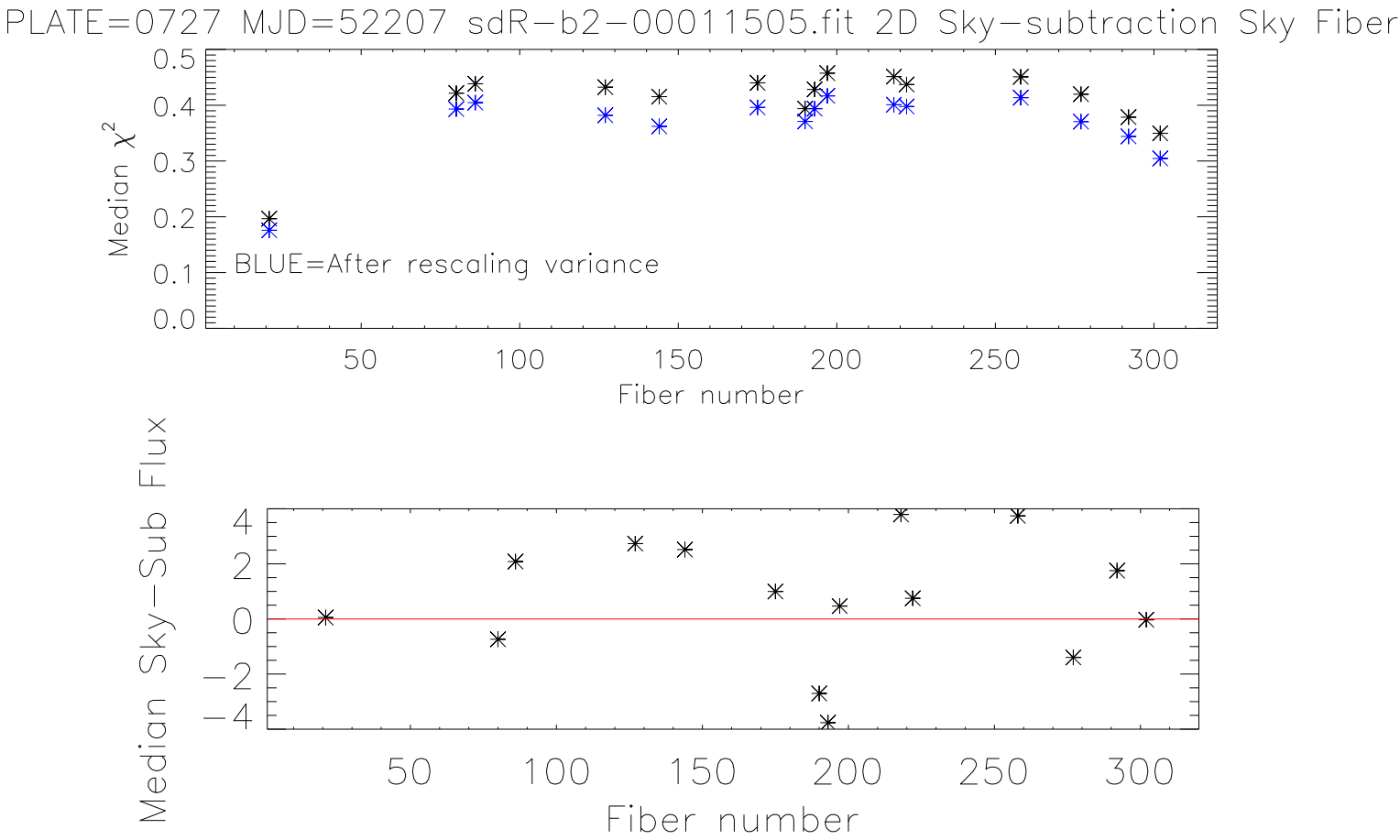

PLATE=0727 MJD=52207 Smooth superflat for sdR-b2-00011505.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

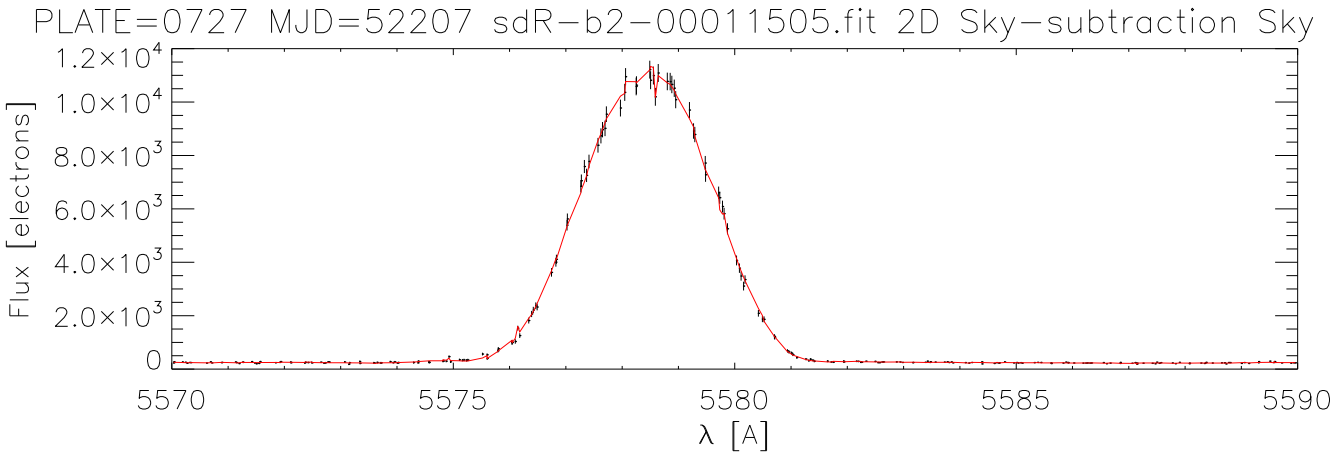

PLATE=0727 MJD=52207 sdR-b2-00011505.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

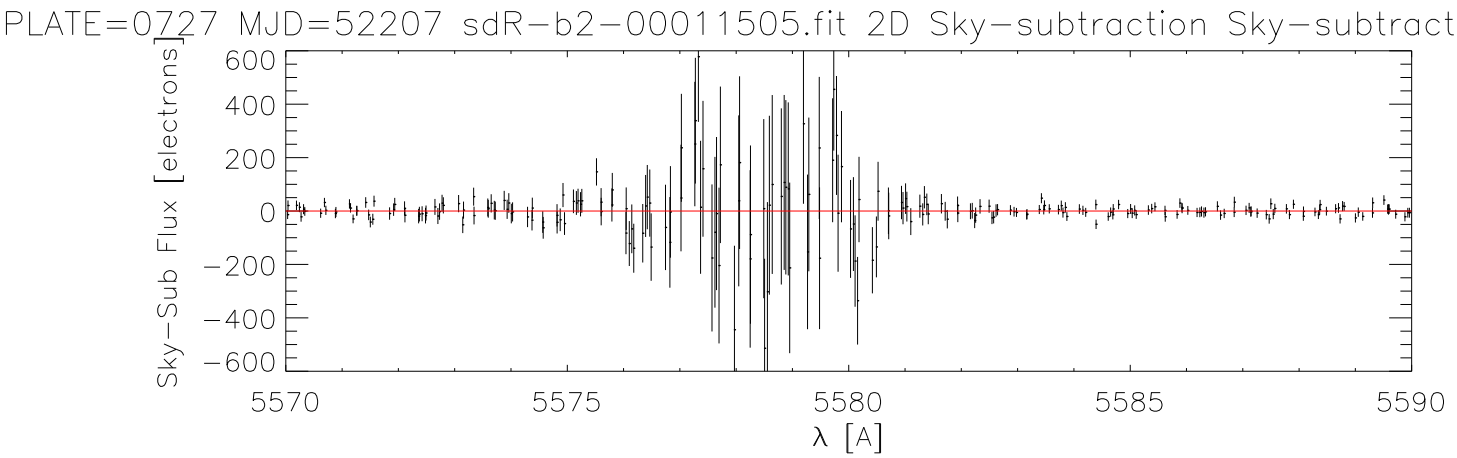

PLATE=0727 MJD=52207 sdR-b2-00011505.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

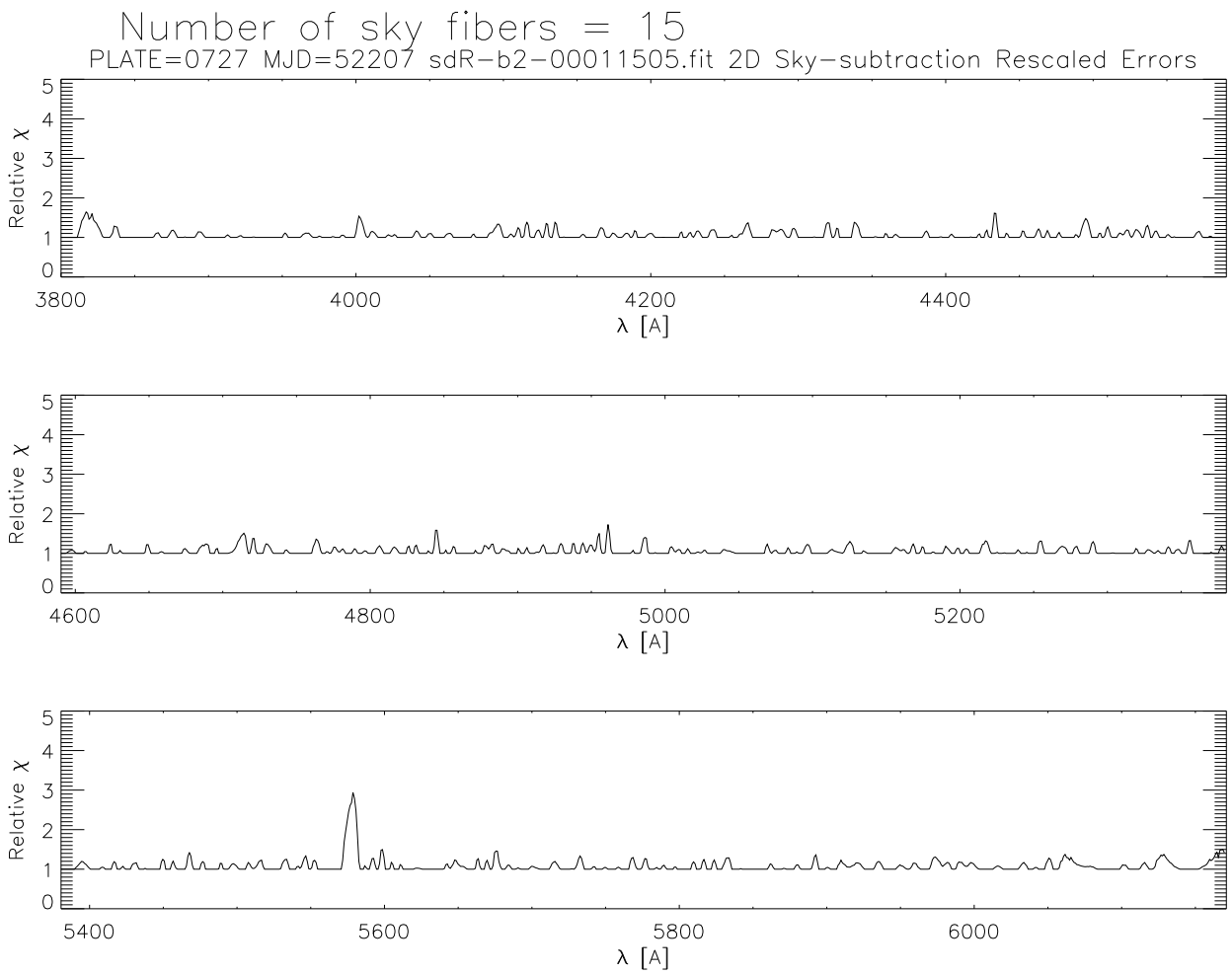

PLATE=0727 MJD=52207 sdR-b2-00011505.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

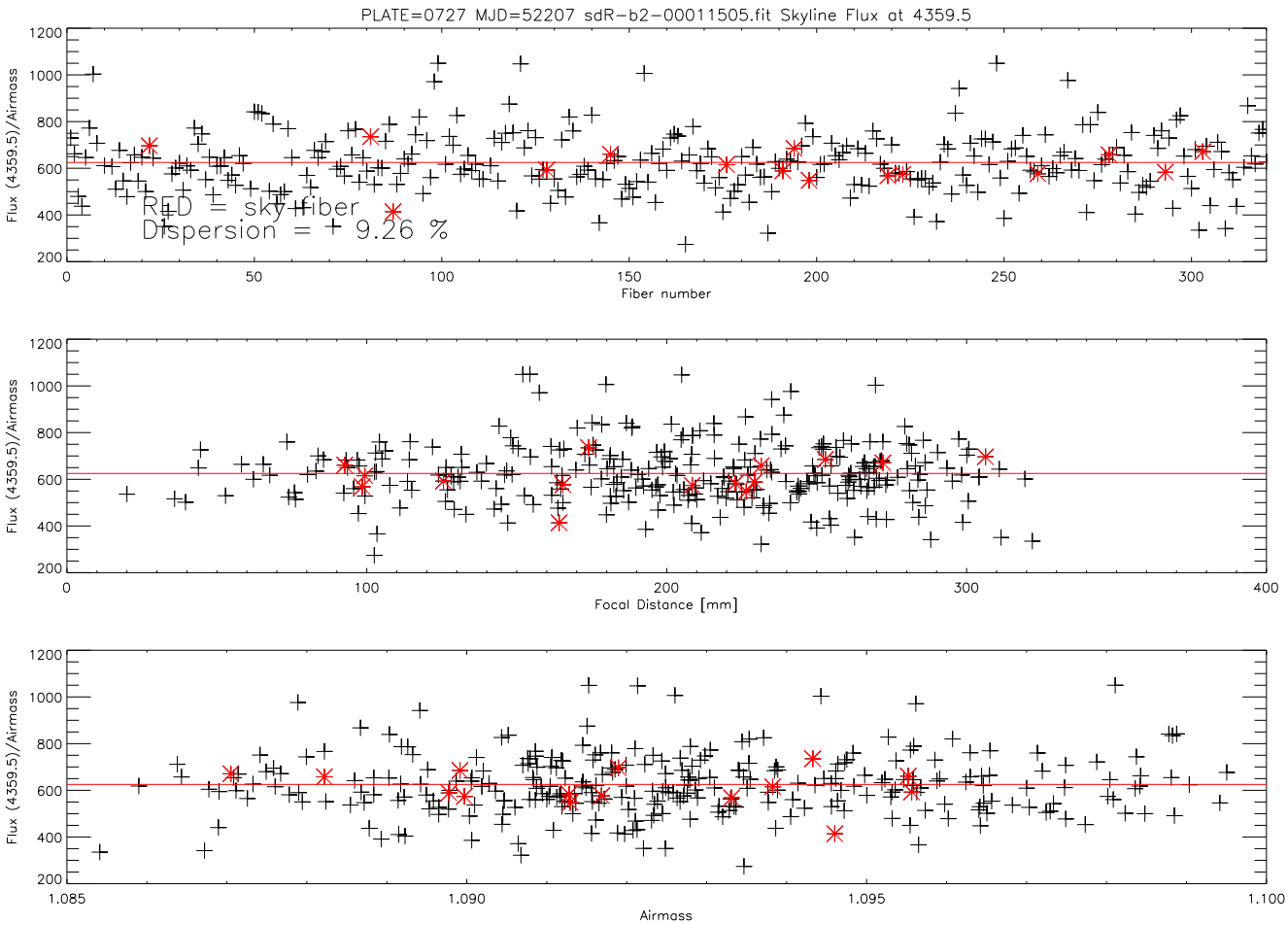

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b2-00011505.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

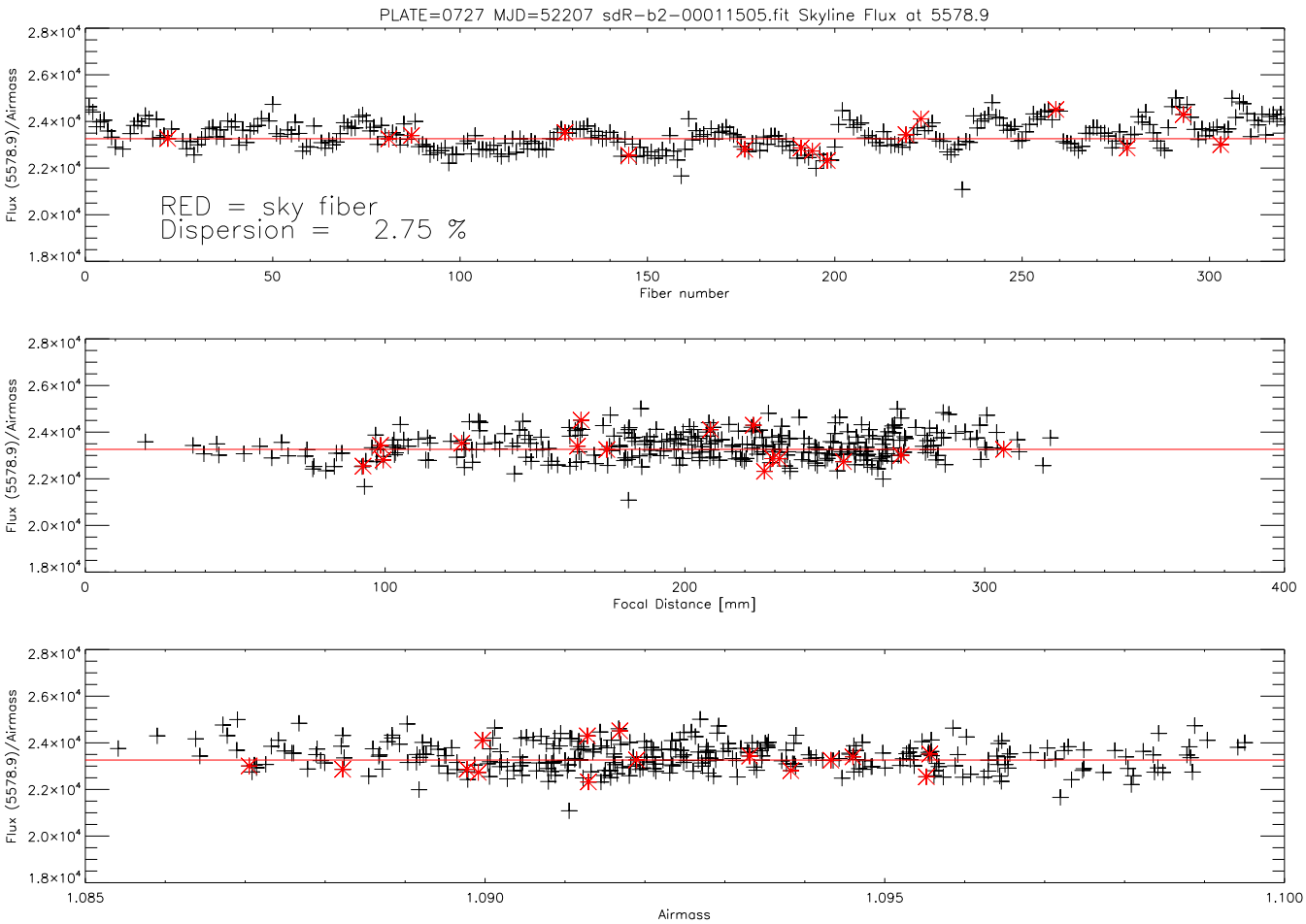

PLATE=0727 MJD=52207 sdR-b2-00011505.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

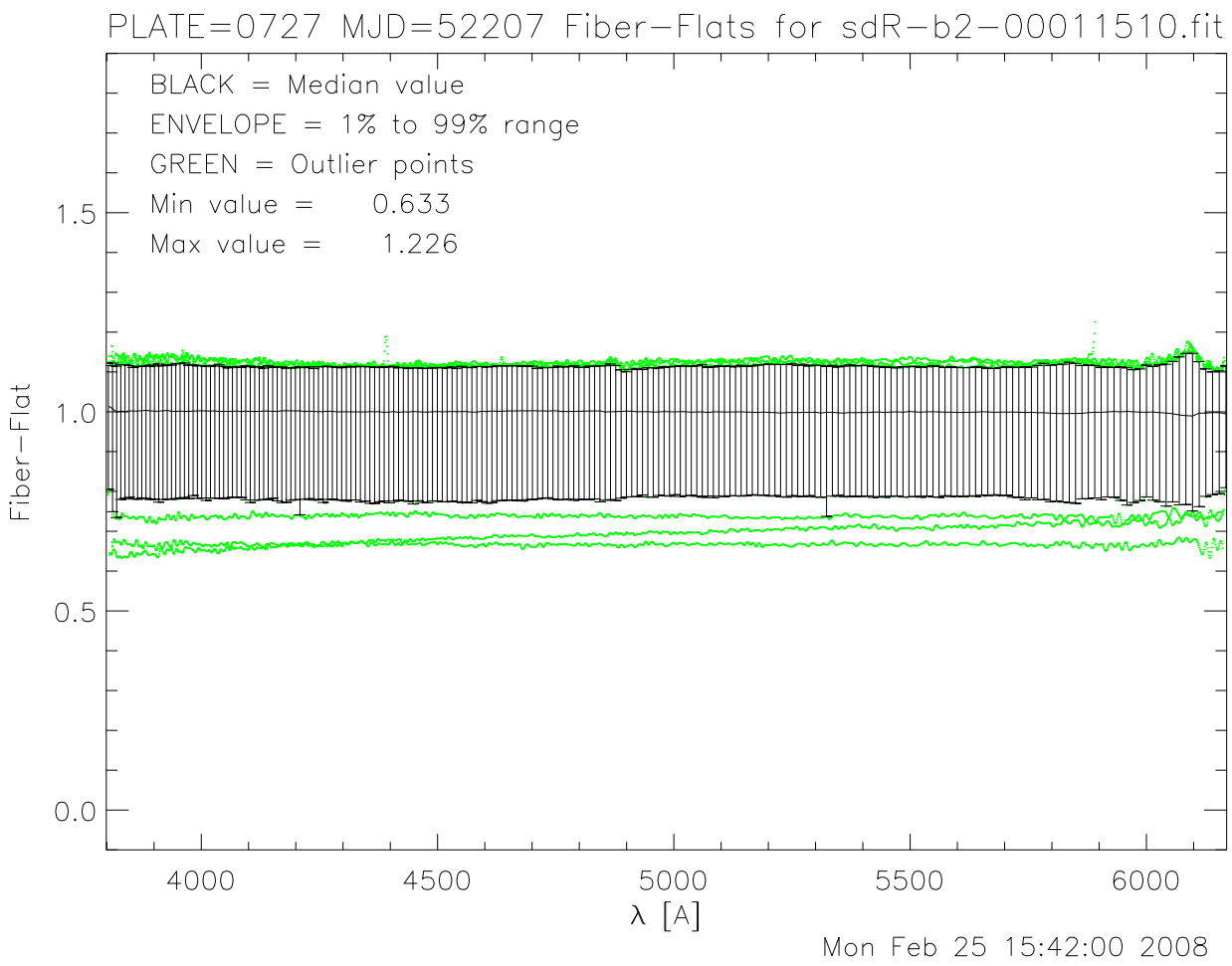

PLATE=0727 MJD=52207 sdR-b2-00011505.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

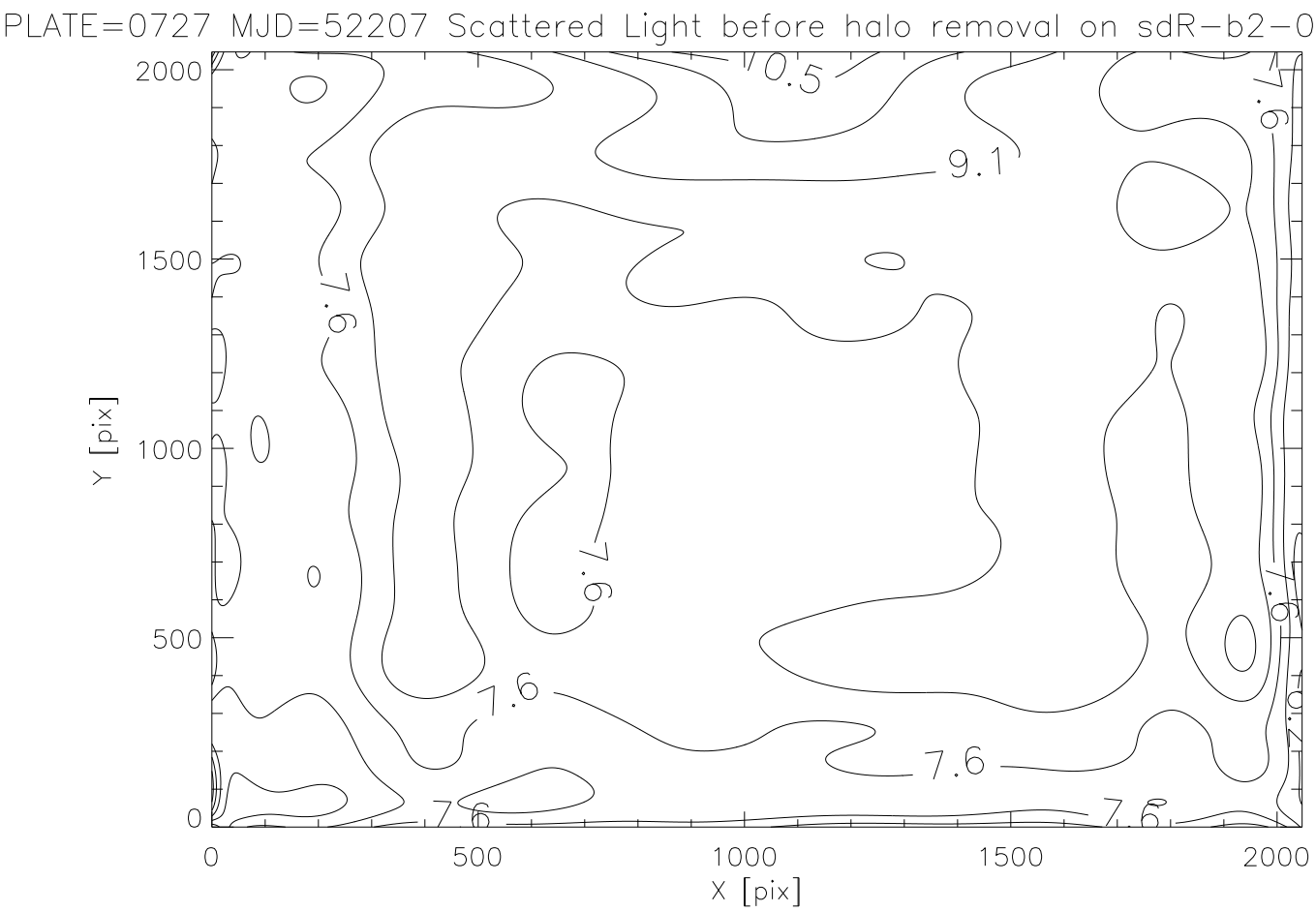

PLATE=0727 MJD=52207 sdR-b2-00011505.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
−600
5570
5575
5580
5585
5590
λ [A]

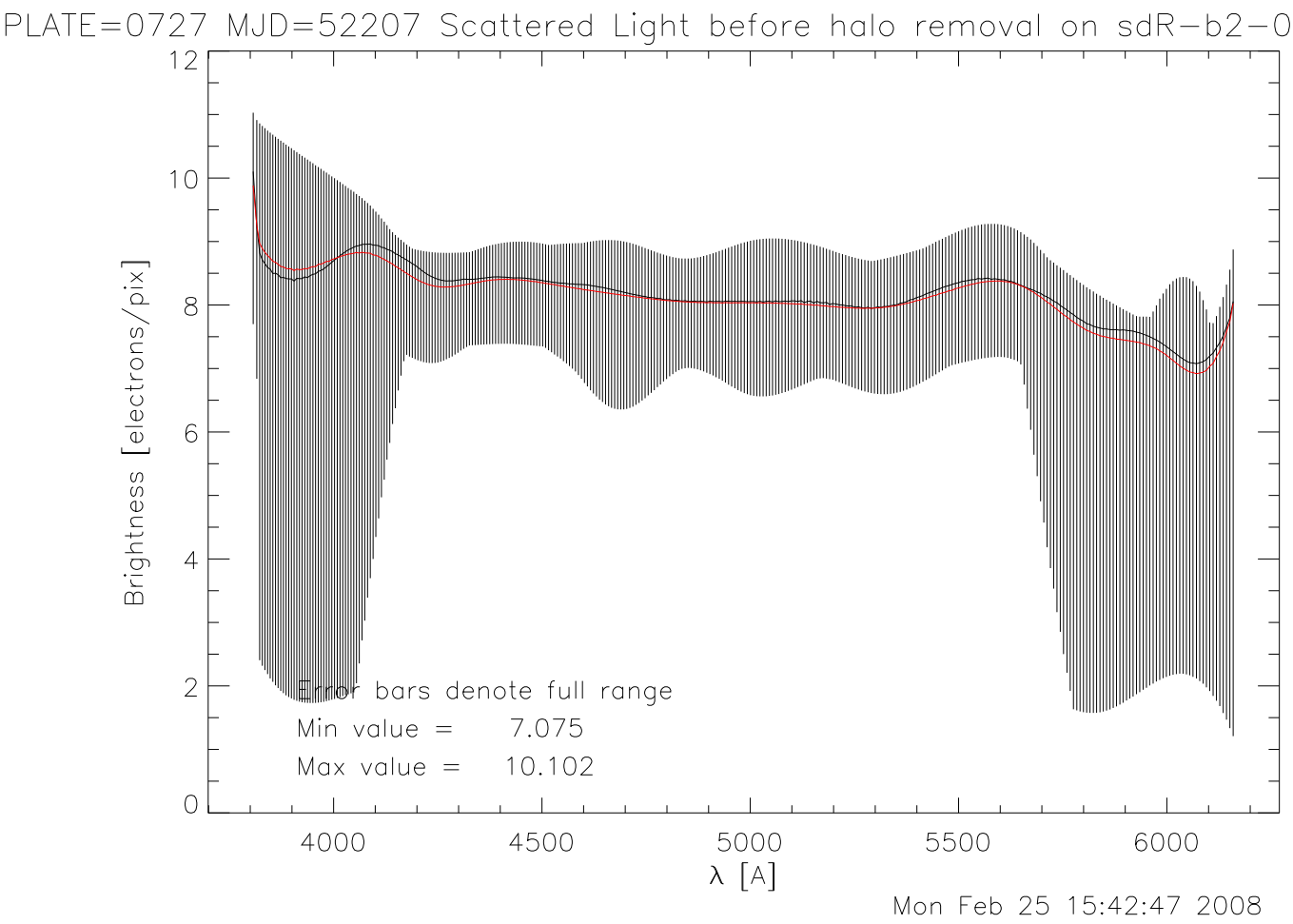

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b2-00011505.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

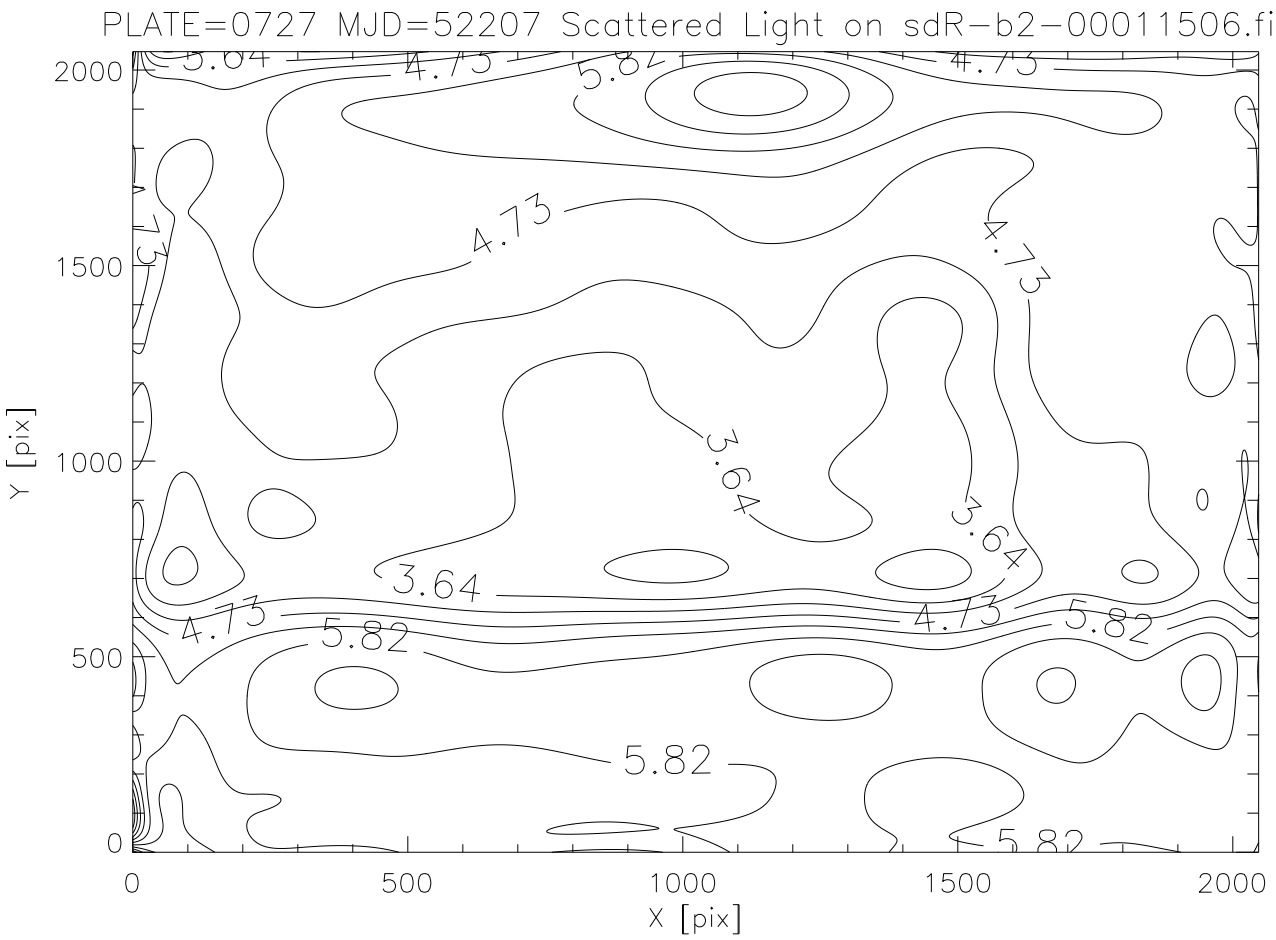

PLATE=0727 MJD=52207 sdR-b2-00011505.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = + 9.26 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

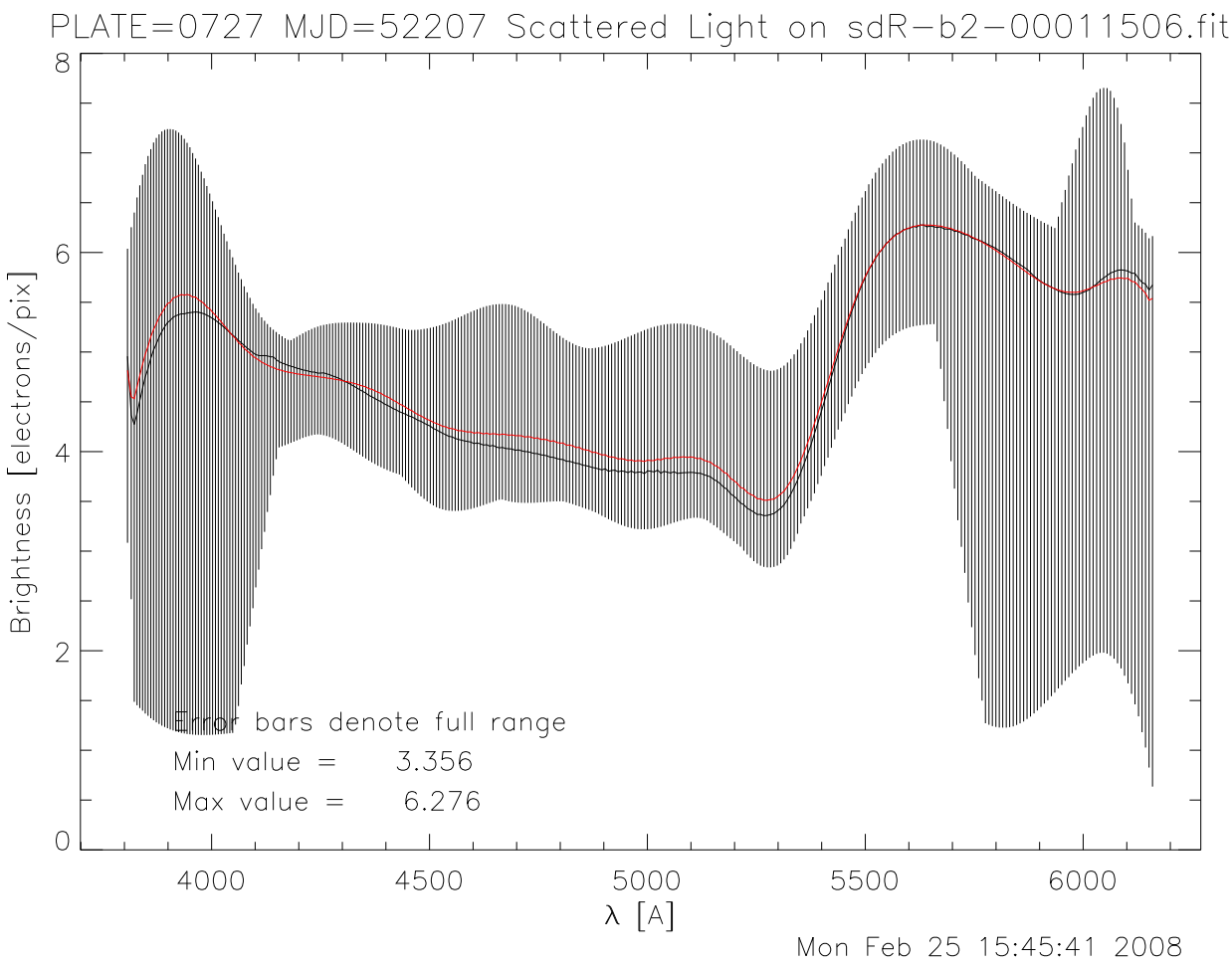

PLATE=0727 MJD=52207 sdR-b2-00011505.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.75 %
Fiber number
Focal Distance [mm]
Airmass

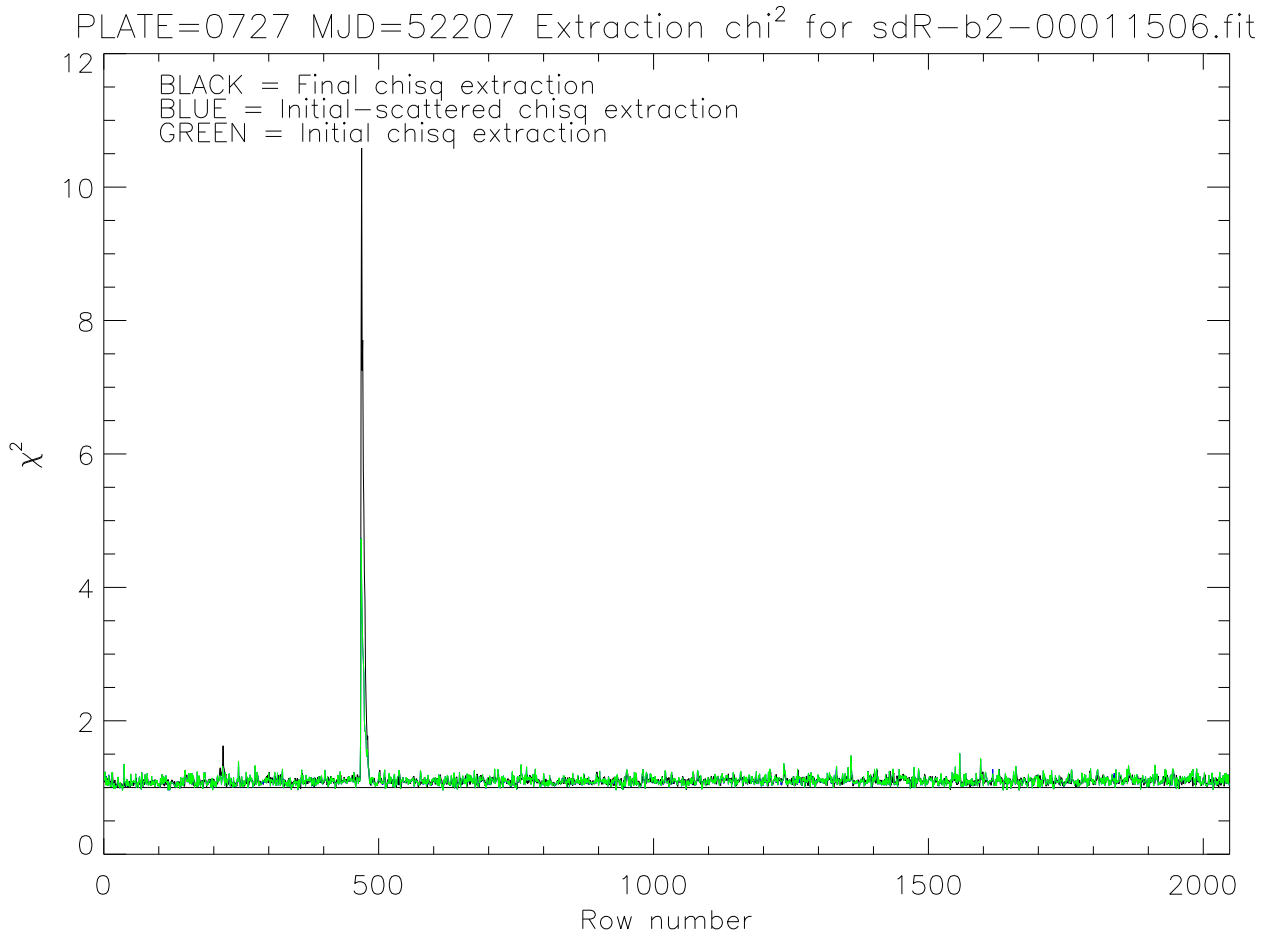

PLATE=0727 MJD=52207 Fiber-Flats for sdR-b2-00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.633
Max value = 1.226
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:42:00 2008

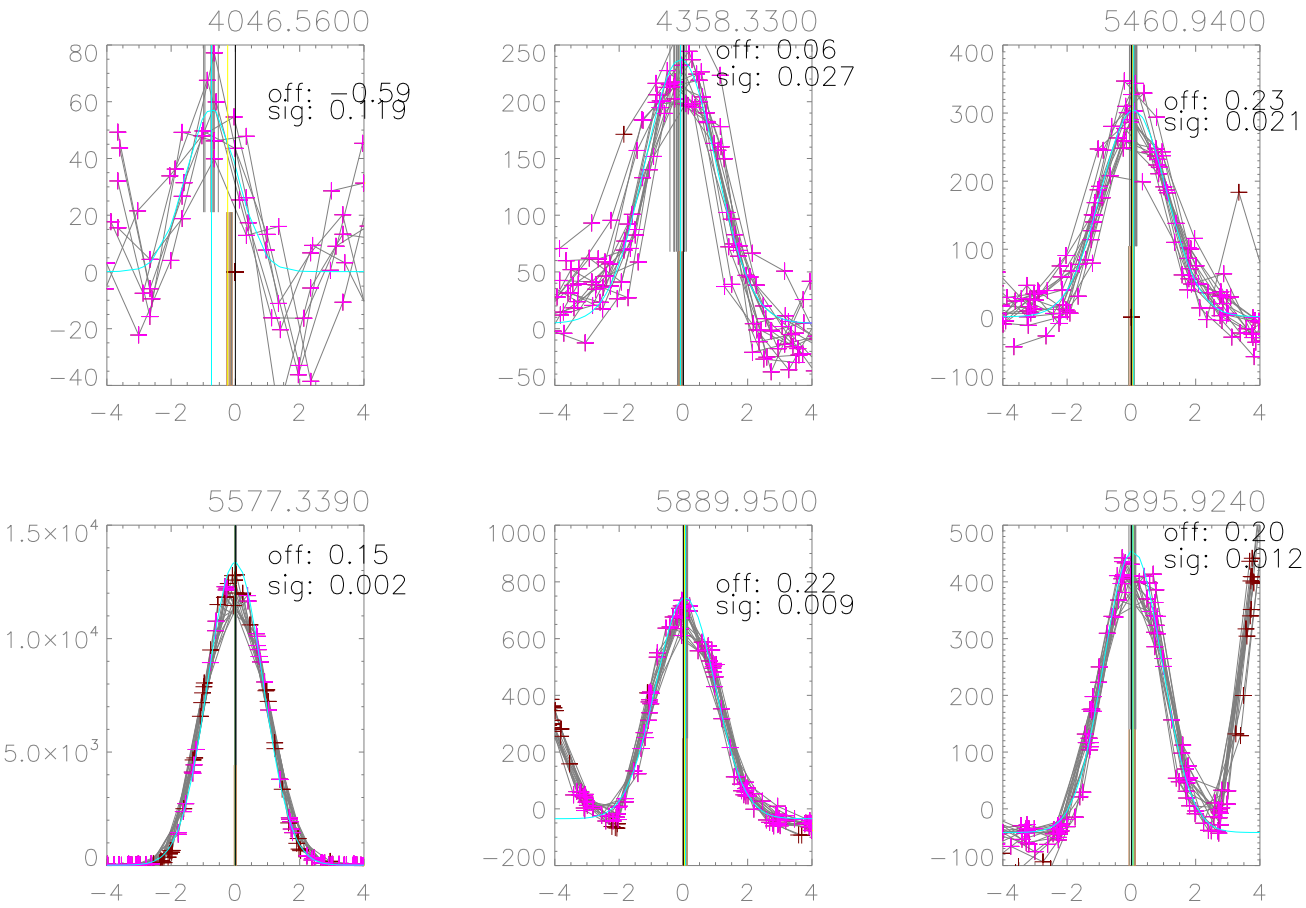

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-b2-00011506.f
0.5
9.1
7.6
7.6
7.6
7.6
7.6
7.6
0
0
Y [pix]
X [pix]
0
500
1000
1500
2000

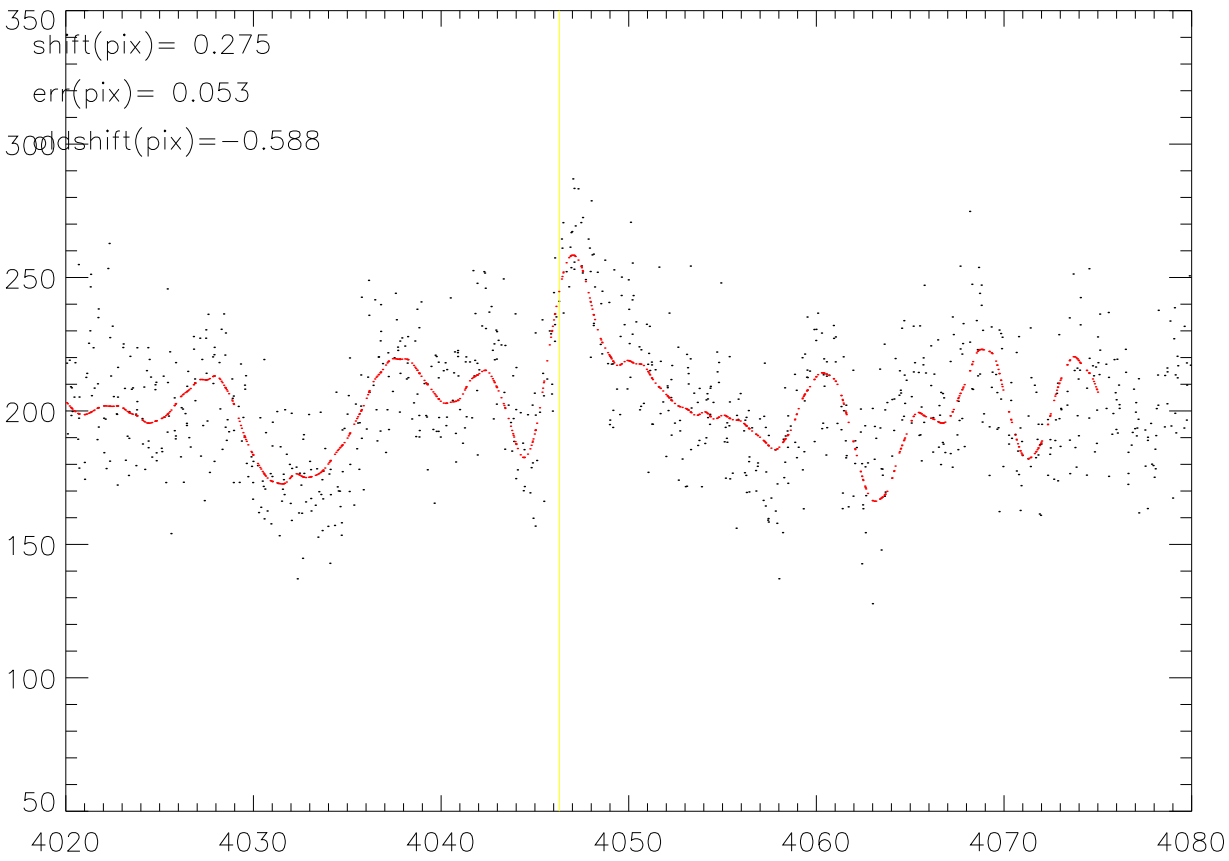

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-b2-00011506.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.075
Max value = 10.102
Mon Feb 25 15:42:47 2008

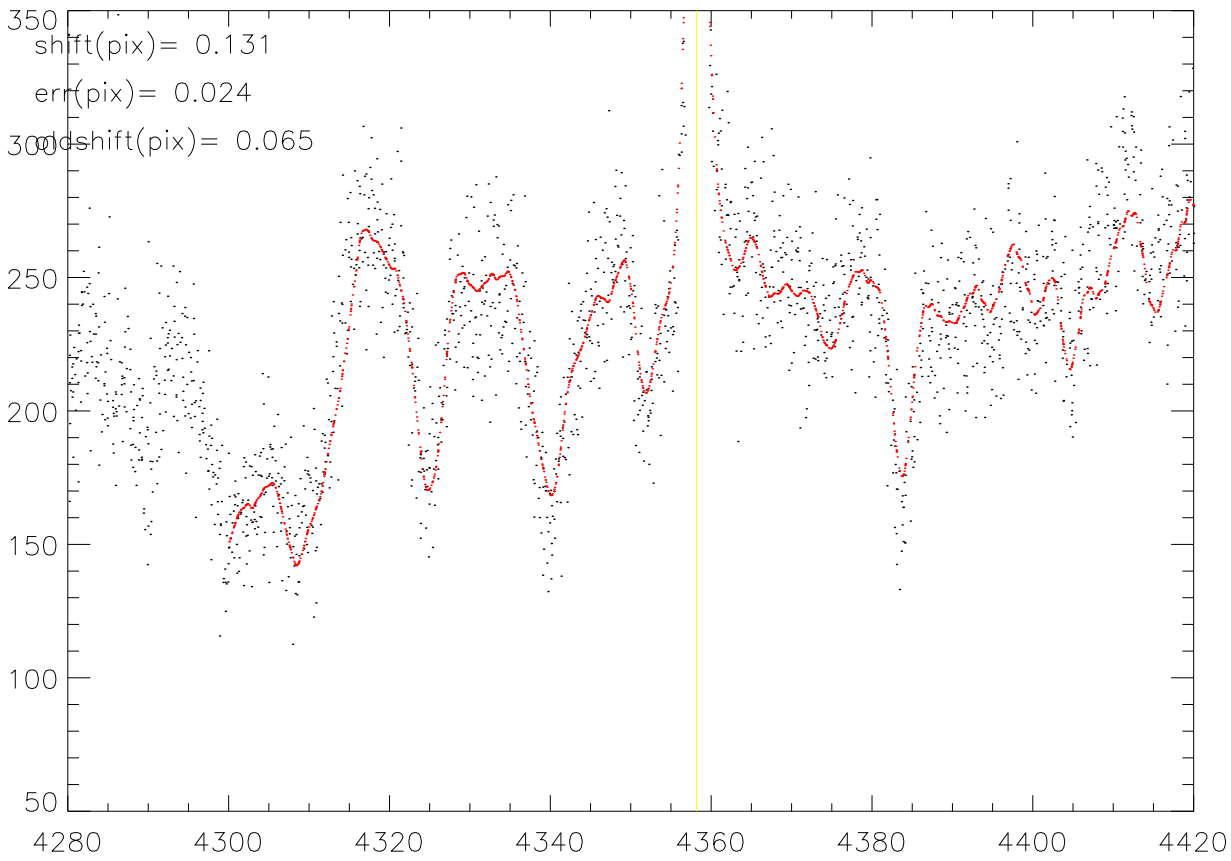

PLATE=0727 MJD=52207 Scattered Light on sdR-b2-00011506.fit
5.64
4.73
5.82
4.73
4.73
4.73
3.64
3.64
0
3.64
4.73
4.73
5.82
5.82
5.82
5.82
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

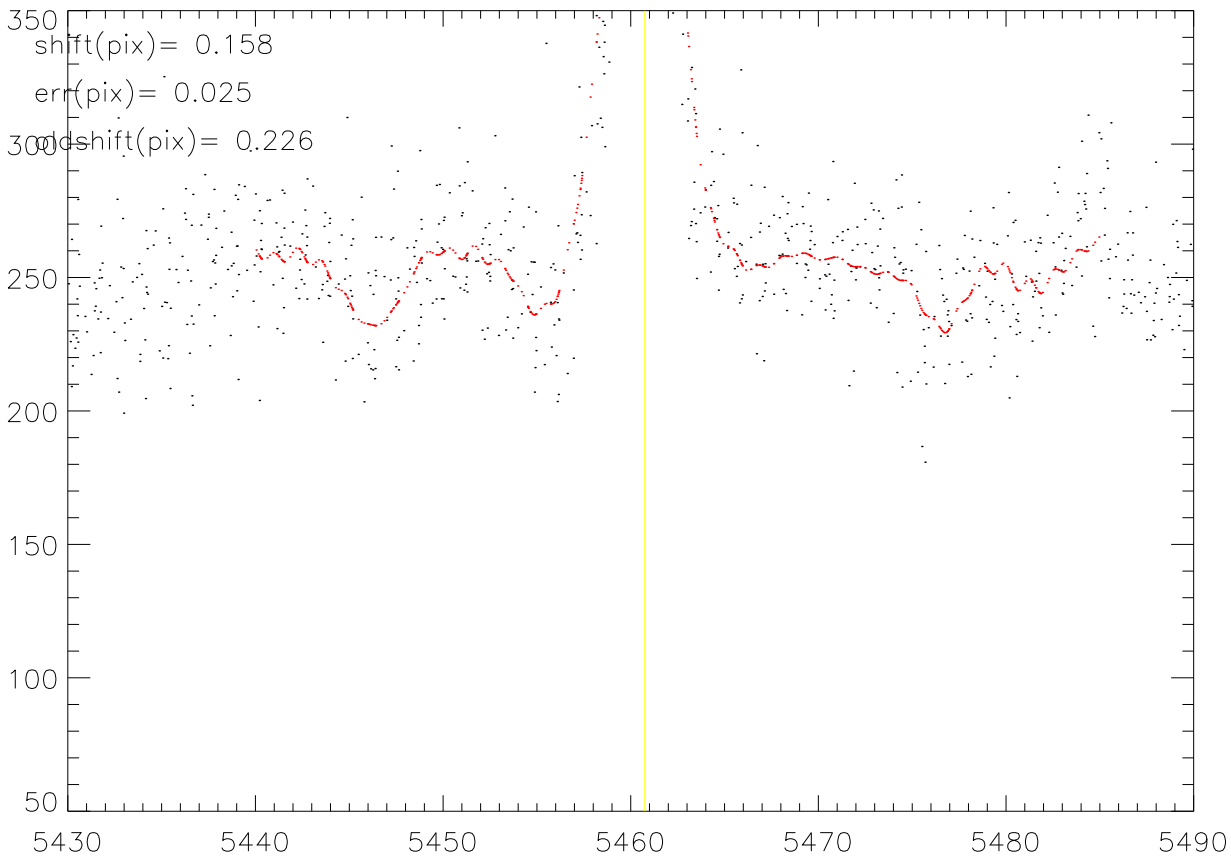

PLATE=0727 MJD=52207 Scattered Light on sdR-b2-00011506.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.356
Max value = 6.276
Mon Feb 25 15:45:41 2008

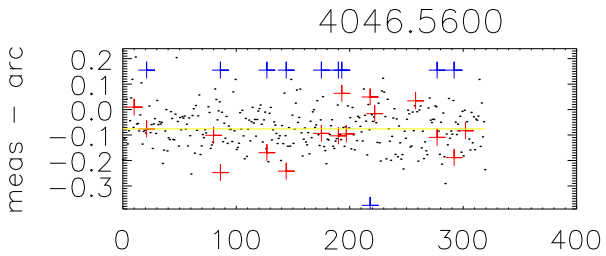

PLATE=0727 MJD=52207 Extraction chi^2 for sdR-b2-00011506.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
0
500
1000
1500
2000
Row number

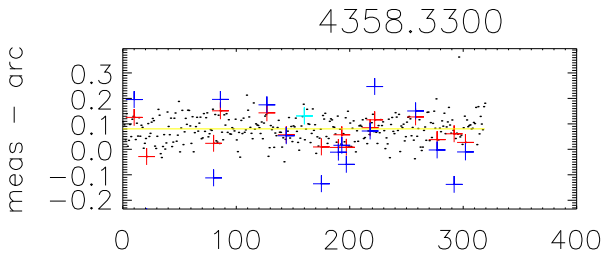

4046.5600
off: −0.59
sig: 0.119
4358.3300
off: 0.06
sig: 0.027
5460.9400
off: 0.23
sig: 0.021
5577.3390
off: 0.15
sig: 0.002
5889.9500
off: 0.22
sig: 0.009
5895.9240
off: 0.20
sig: 0.012

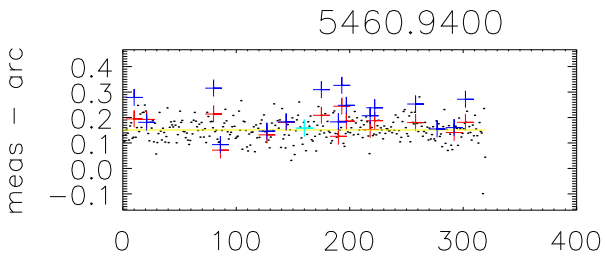

shift(pix)= 0.275
err(pix)= 0.053
oldshift(pix)=−0.588
350
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

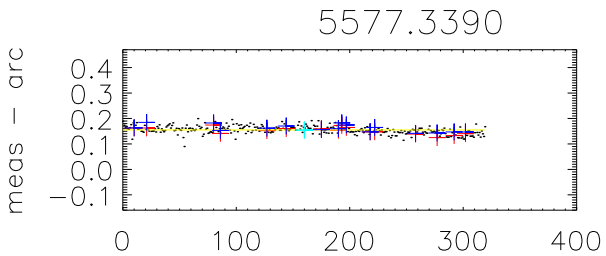

shift(pix)= 0.131
err(pix)= 0.024
oldshift(pix)= 0.065
350
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

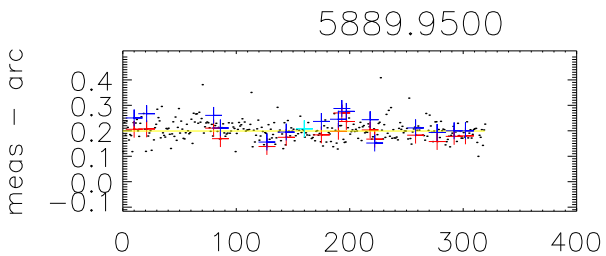

shift(pix)= 0.158
err(pix)= 0.025
oldshift(pix)= 0.226
350
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

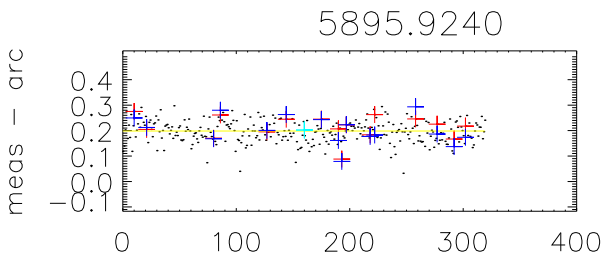

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

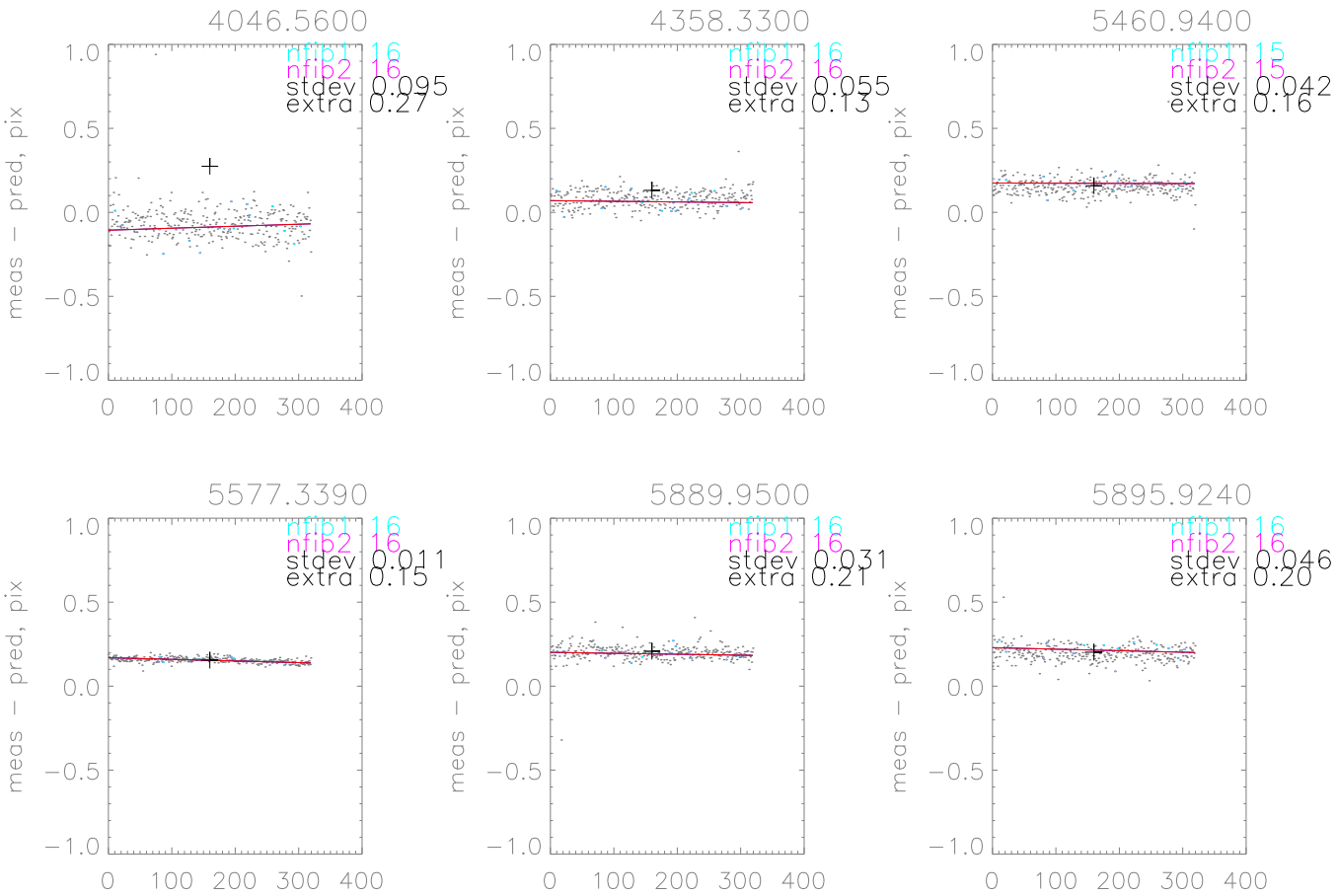

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

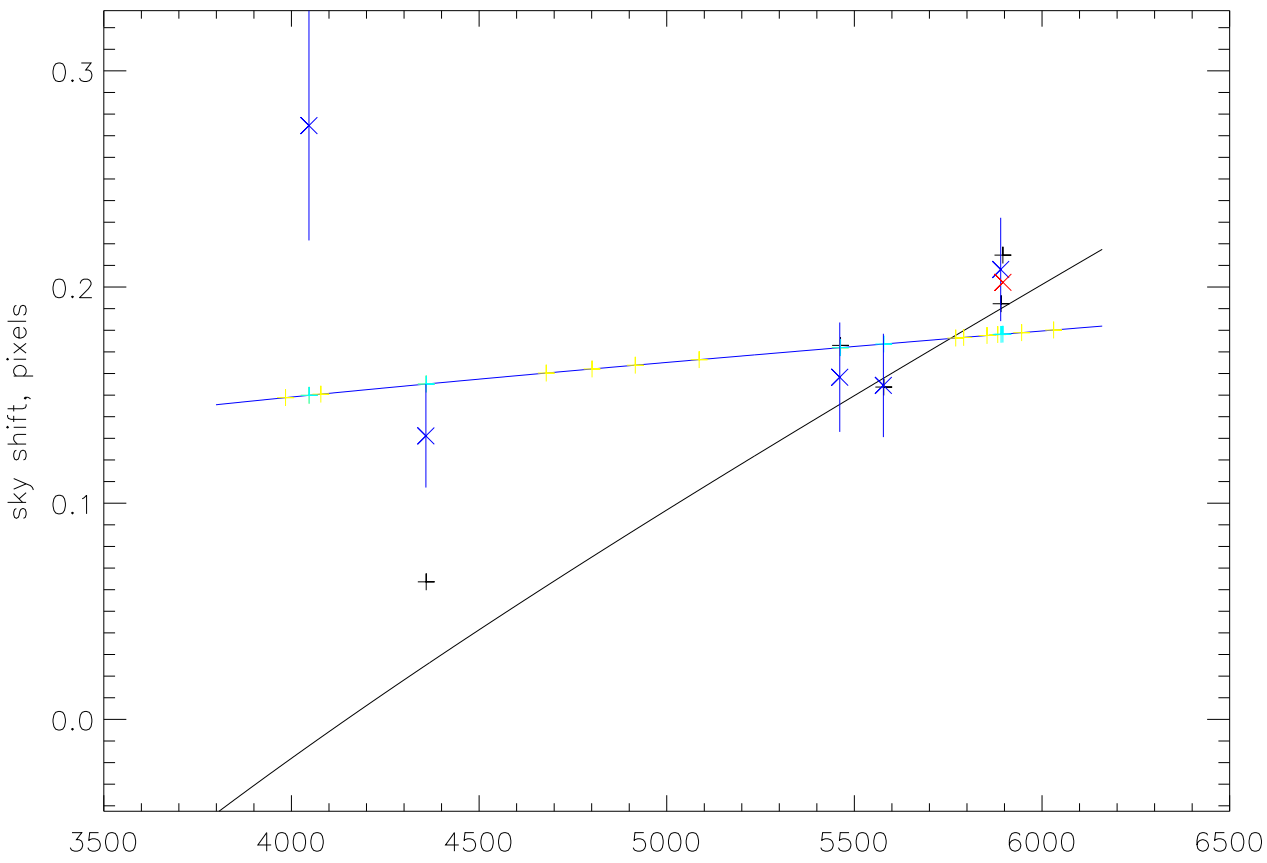

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

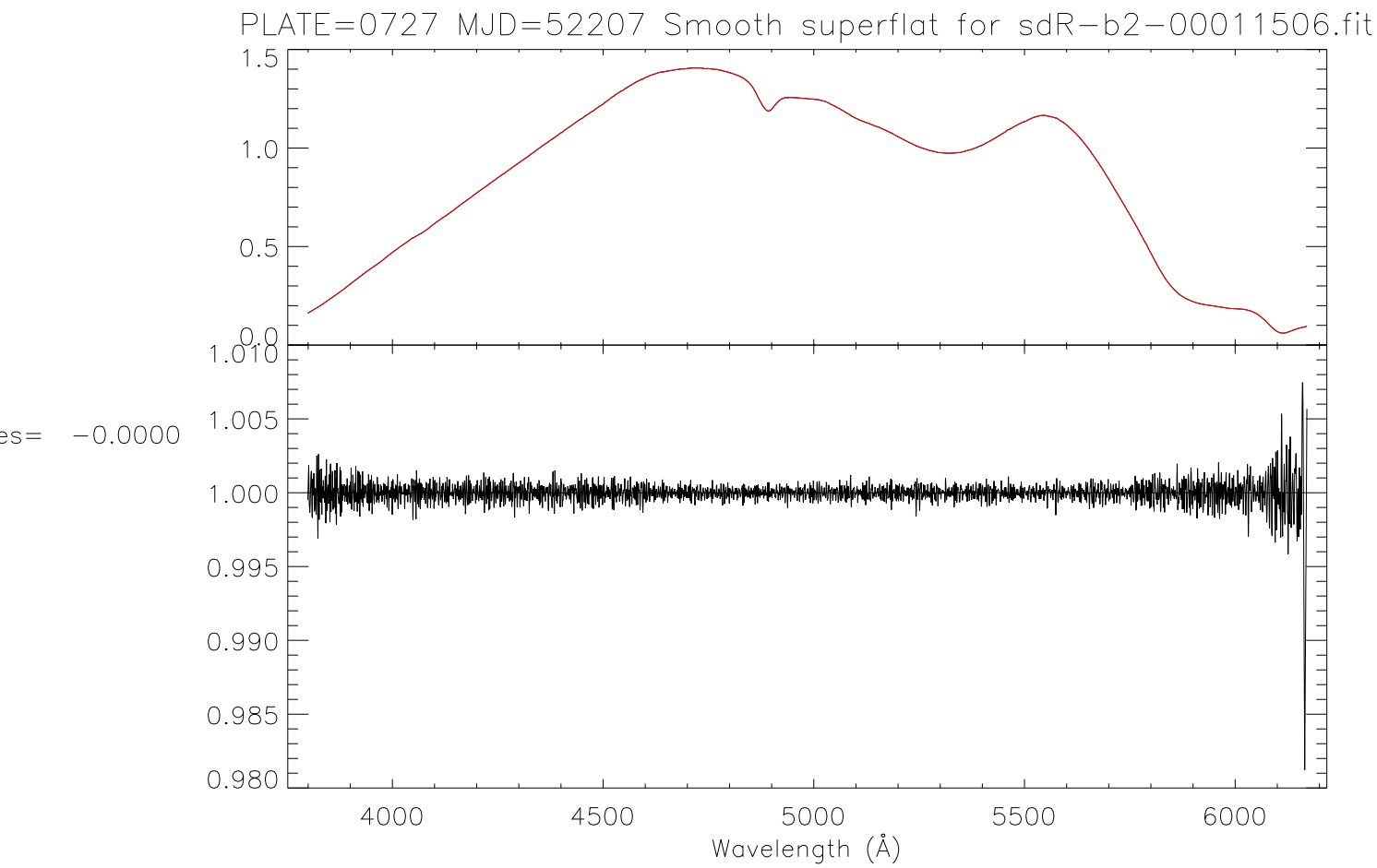

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

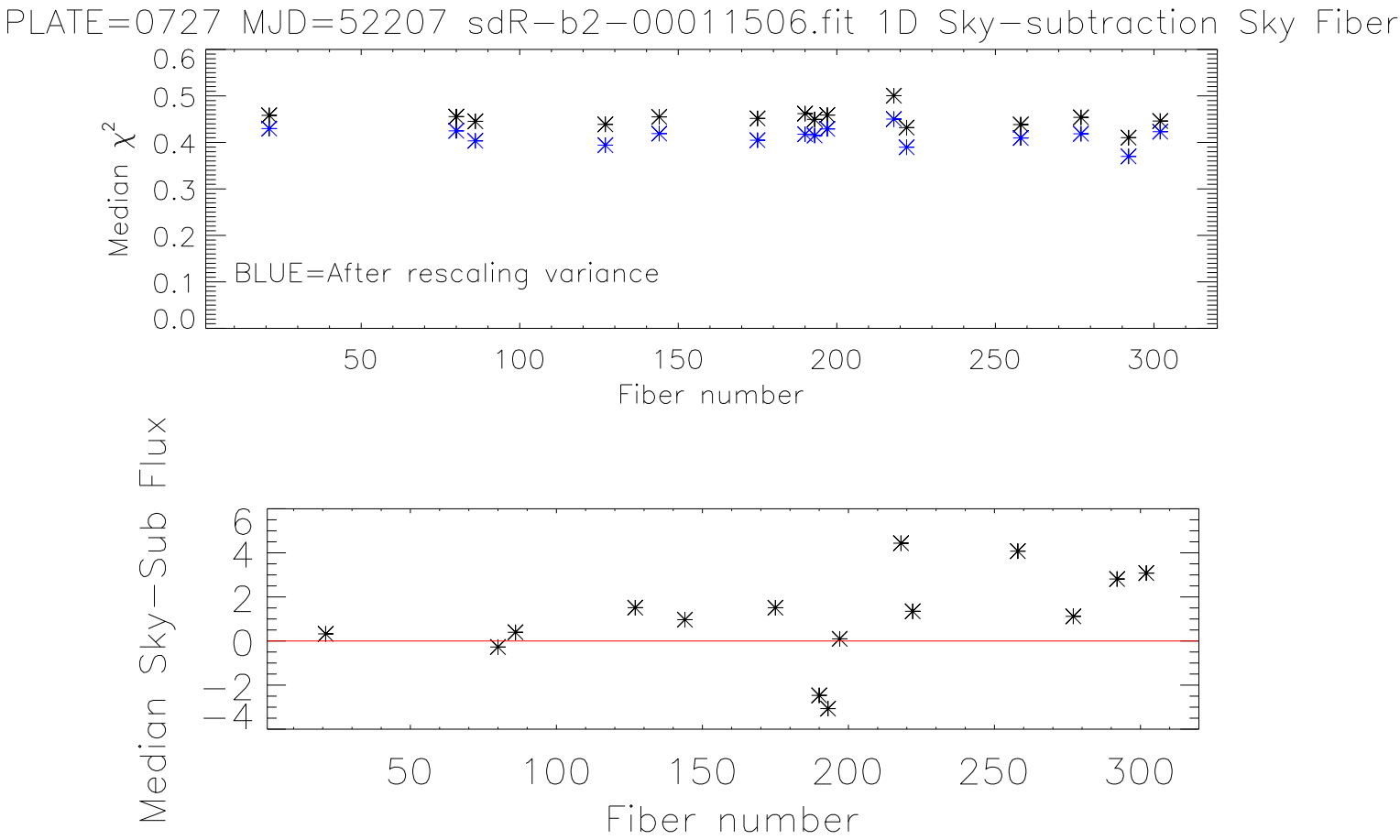

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

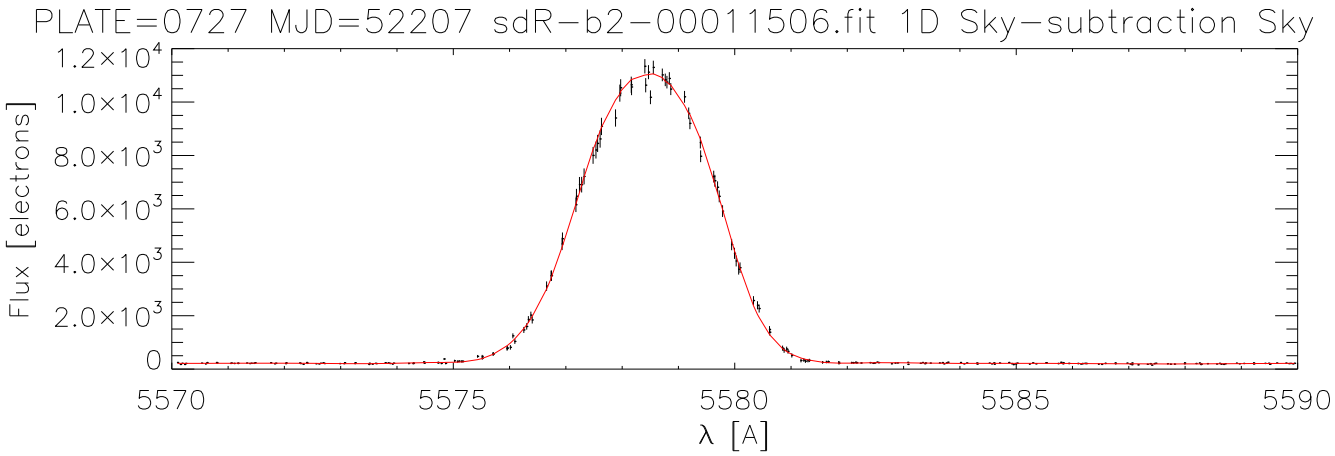

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

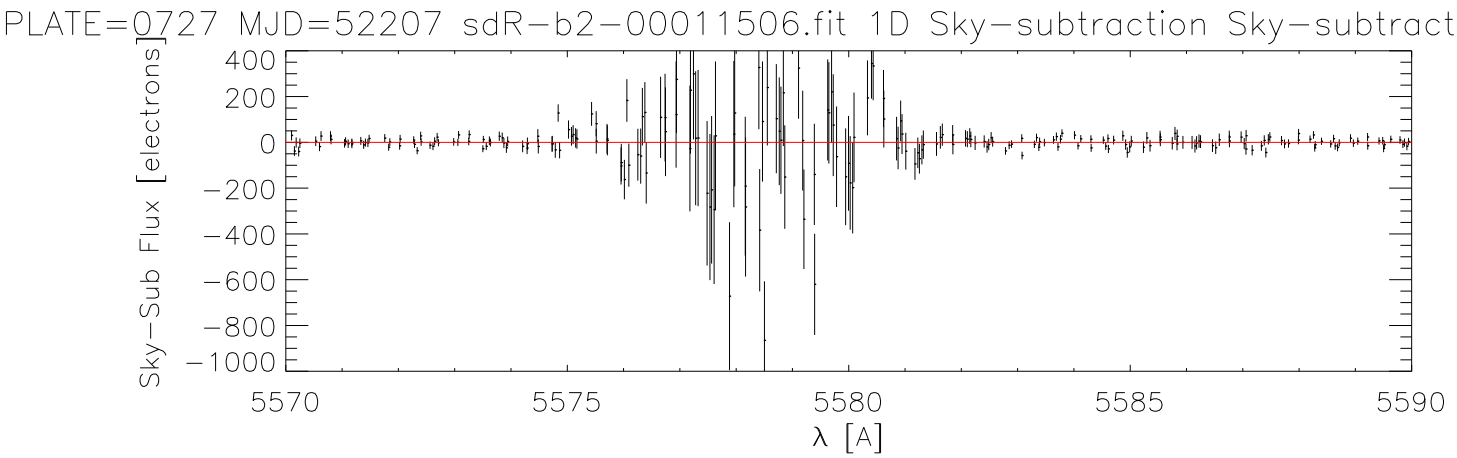

4046.5600
nfib1 16
nfib2 16
stdev 0.095
extra 0.27
4358.3300
nfib1 16
nfib2 16
stdev 0.055
extra 0.13
5460.9400
nfib1 15
nfib2 15
stdev 0.042
extra 0.16
5577.3390
nfib1 16
nfib2 16
stdev 0.011
extra 0.15
5889.9500
nfib1 16
nfib2 16
stdev 0.031
extra 0.21
5895.9240
nfib1 16
nfib2 16
stdev 0.046
extra 0.20
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

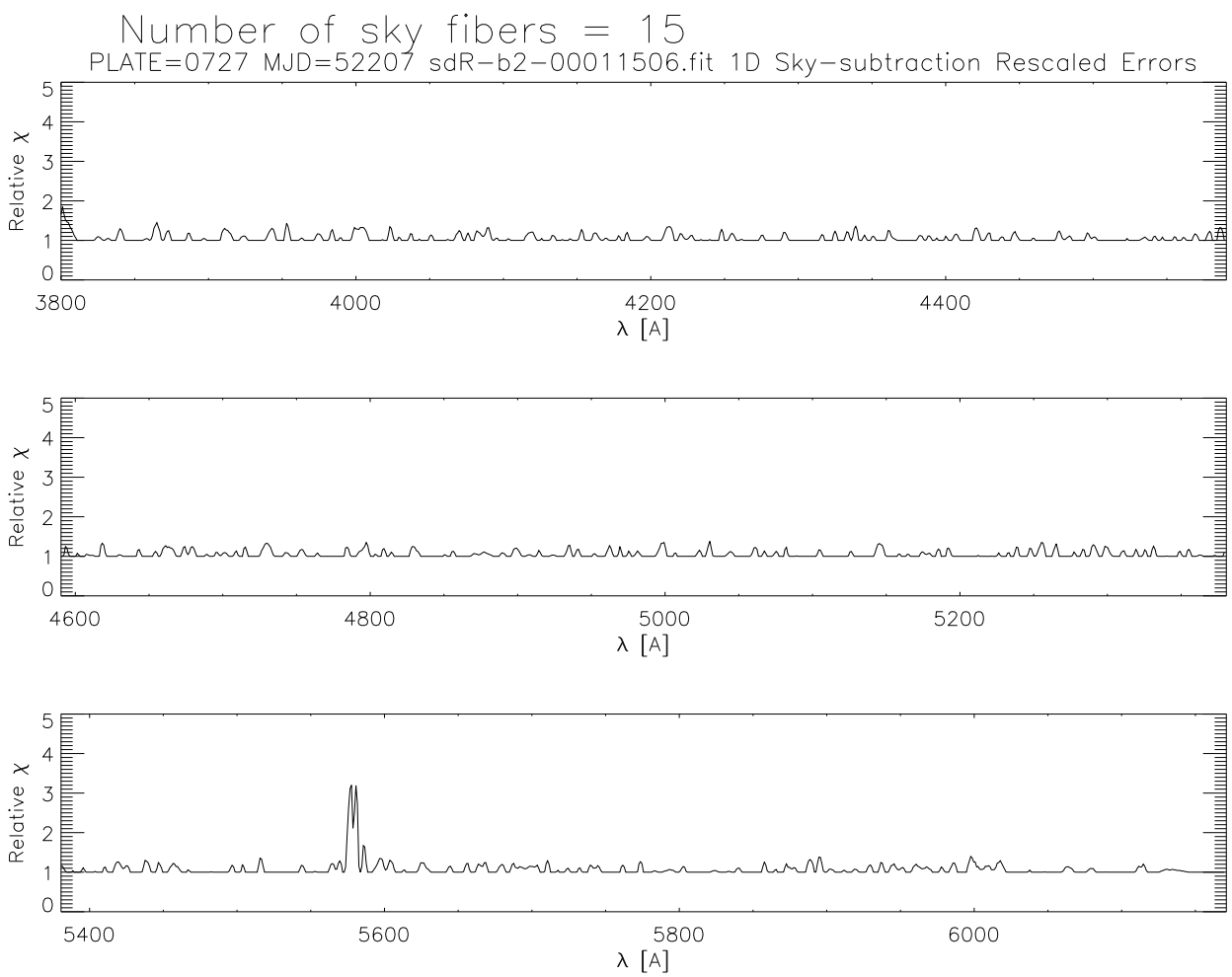

sky shift, pixels
0.3
0.2
0.1
0.0
3500
4000
4500
5000
5500
6000
6500

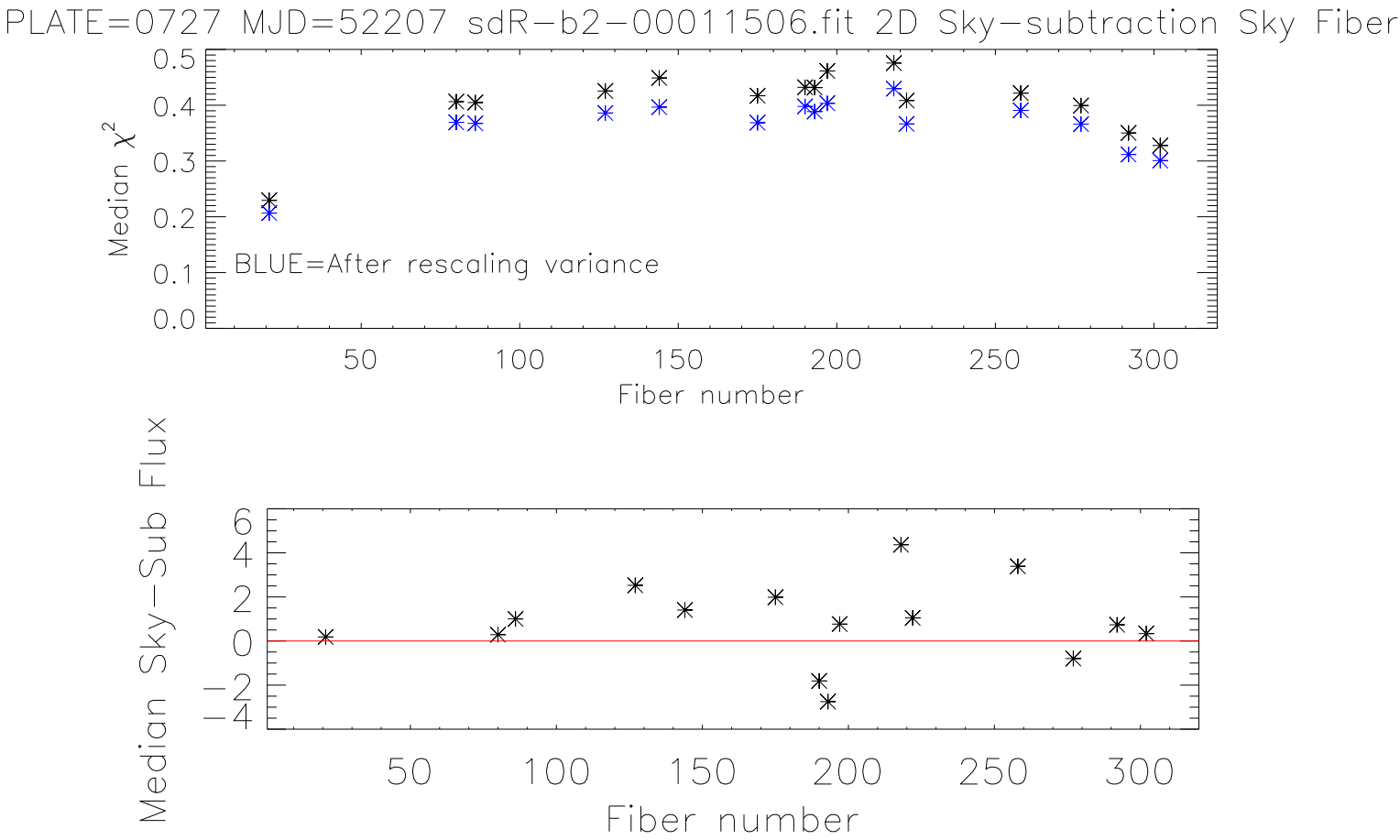

PLATE=0727 MJD=52207 Smooth superflat for sdR-b2-00011506.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

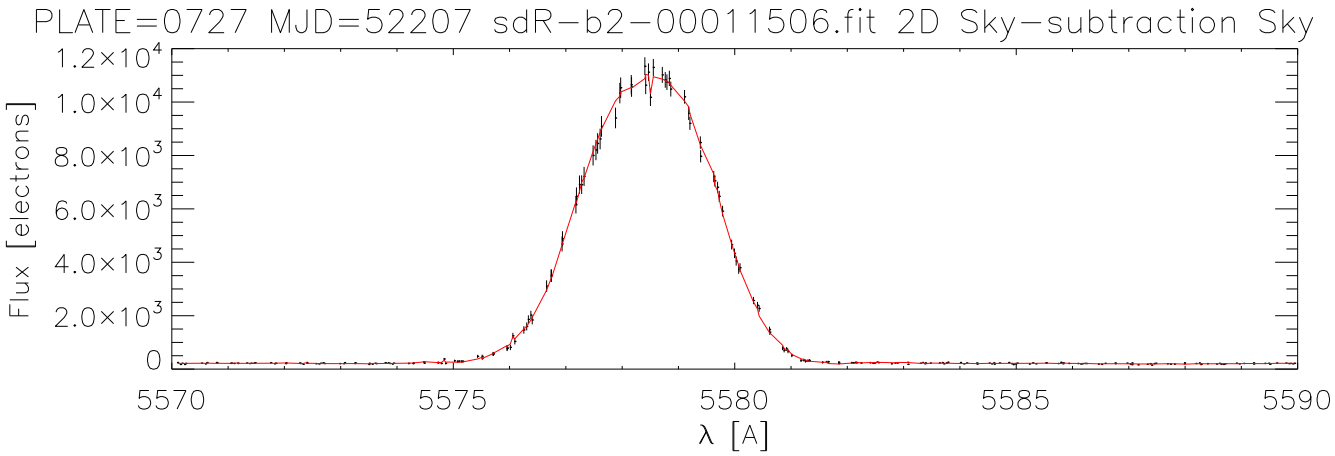

PLATE=0727 MJD=52207 sdR-b2-00011506.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

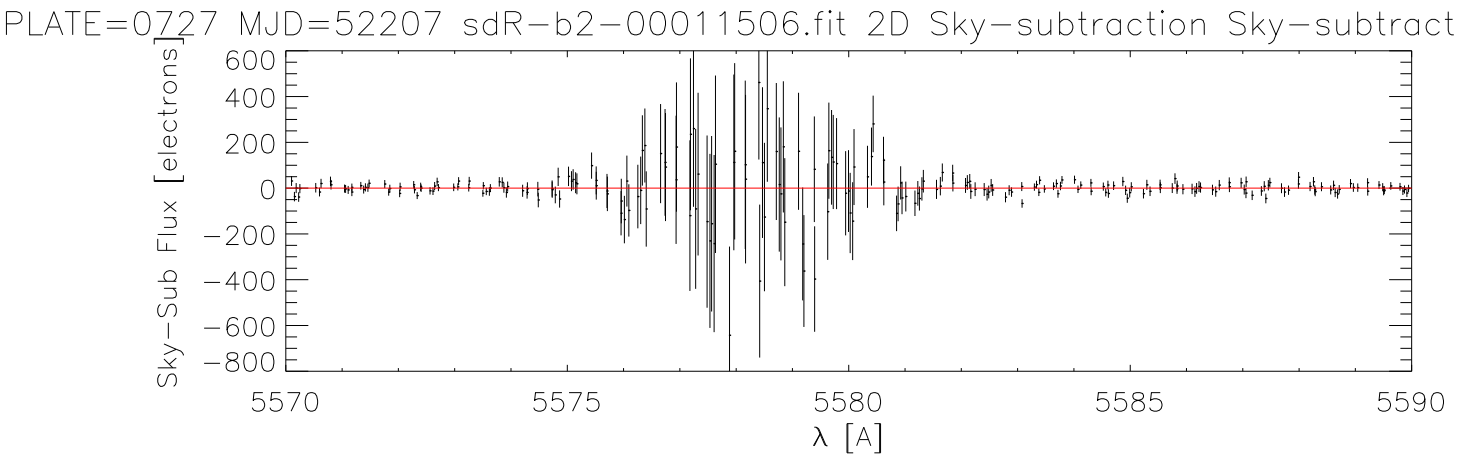

PLATE=0727 MJD=52207 sdR-b2-00011506.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

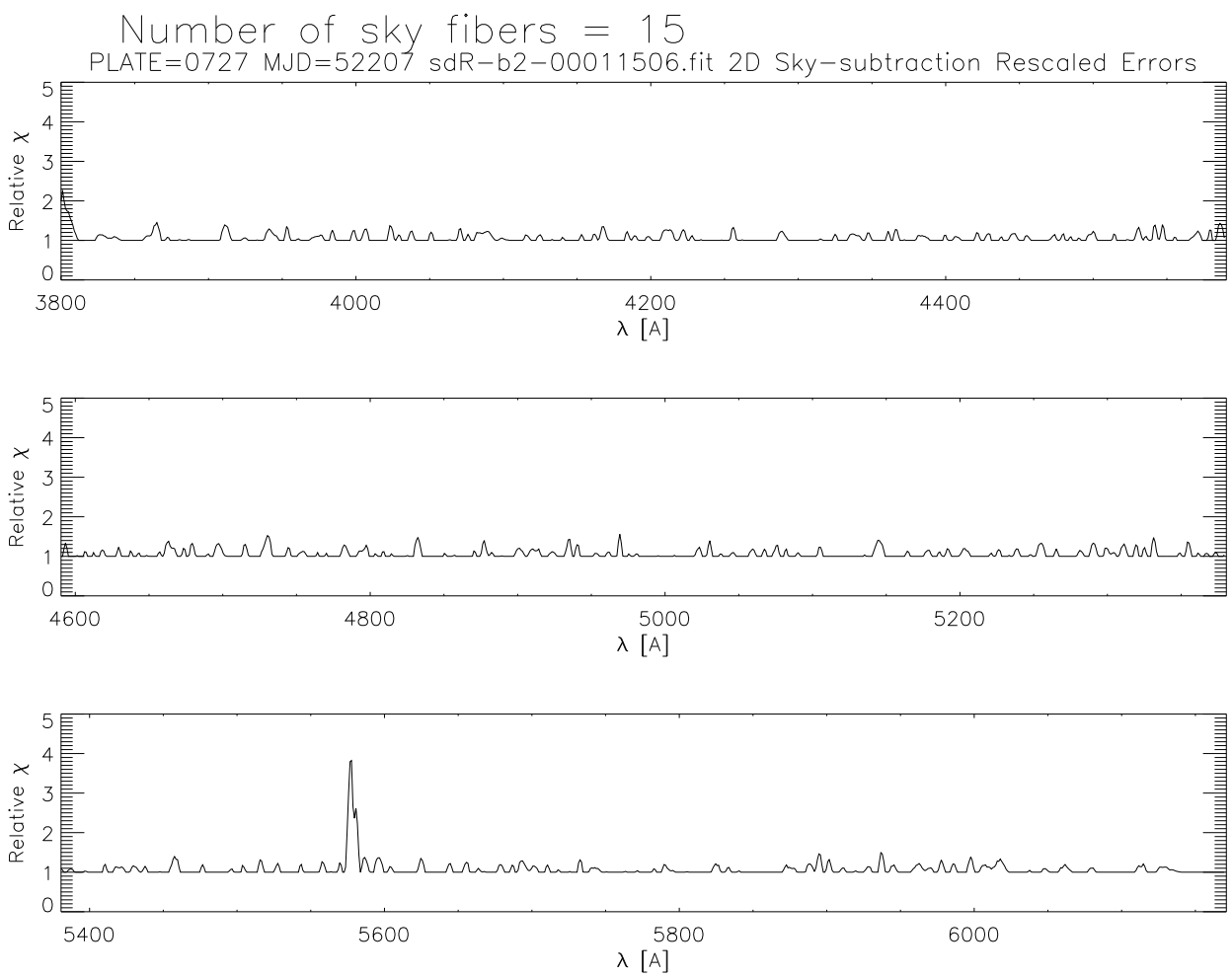

PLATE=0727 MJD=52207 sdR-b2-00011506.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
−600
−800
−1000
5570
5575
5580
5585
5590
λ [A]

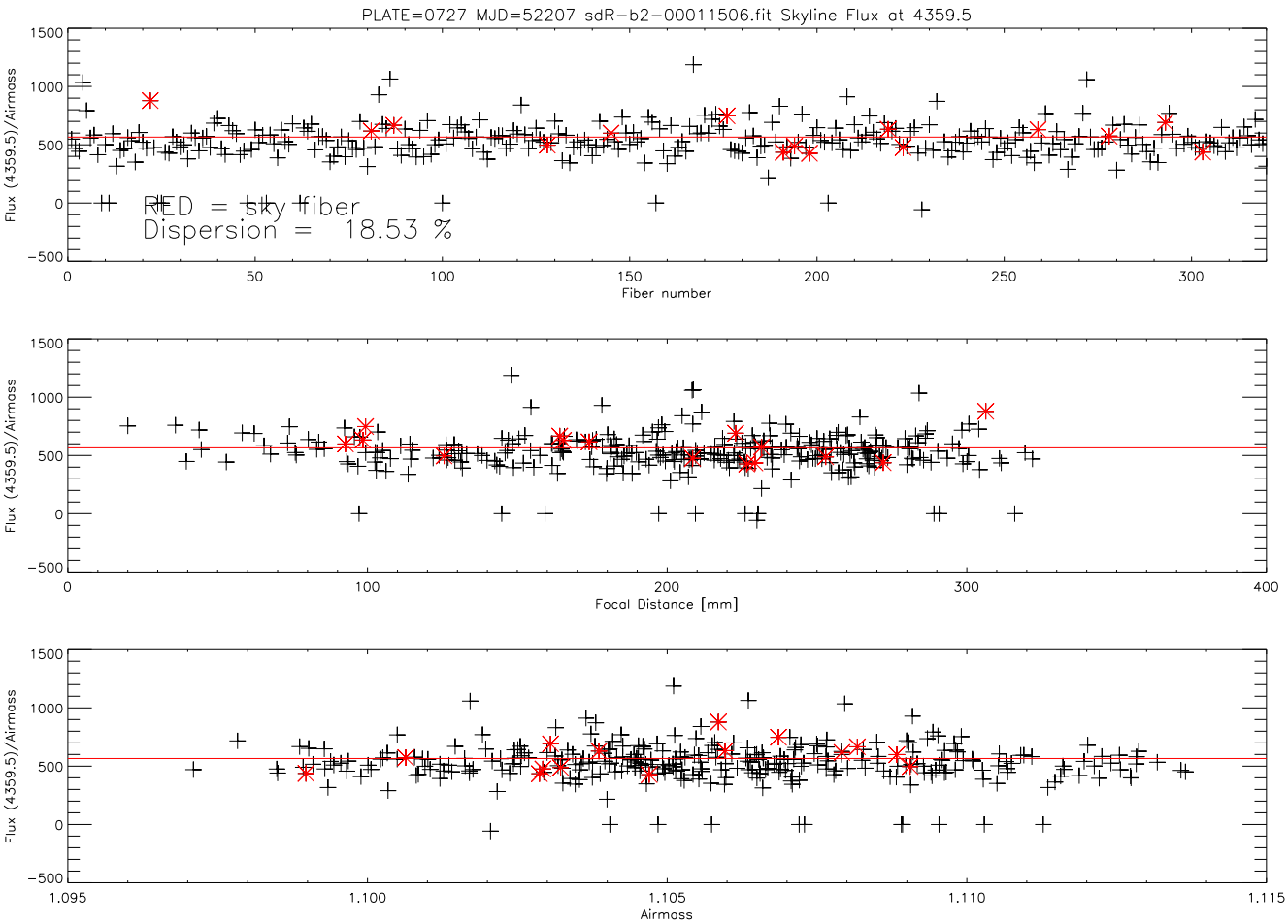

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b2-00011506.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

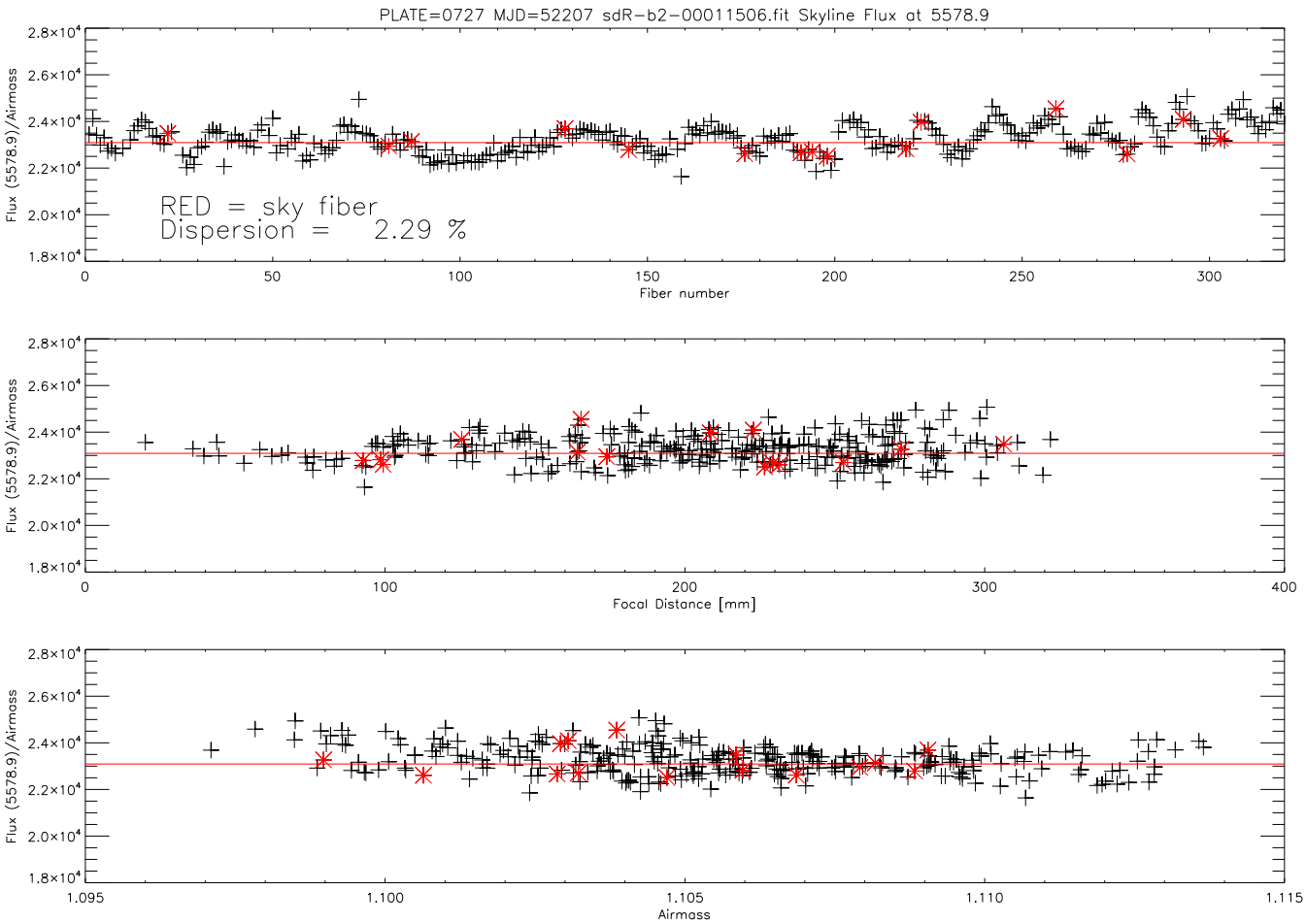

PLATE=0727 MJD=52207 sdR-b2-00011506.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

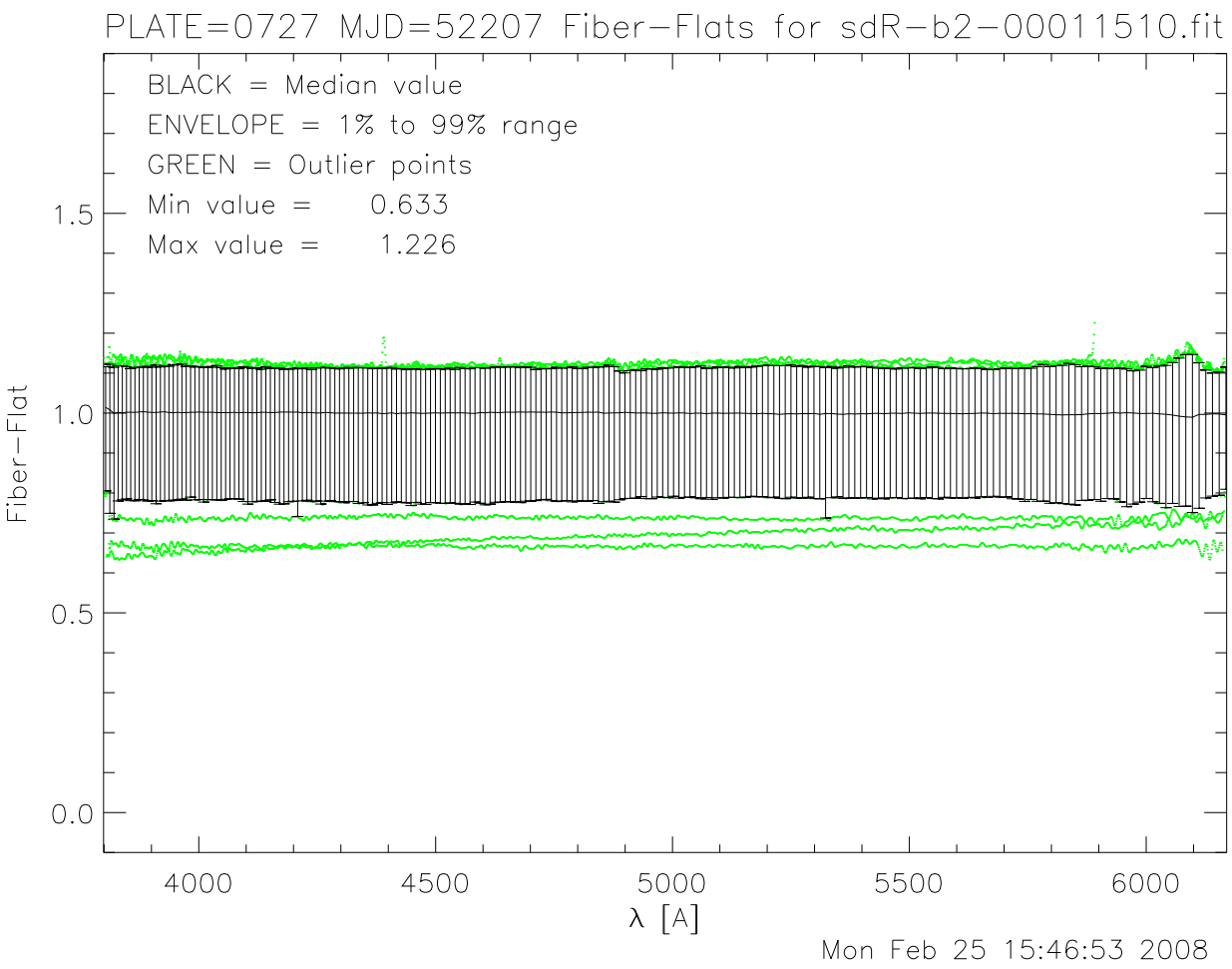

PLATE=0727 MJD=52207 sdR-b2-00011506.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

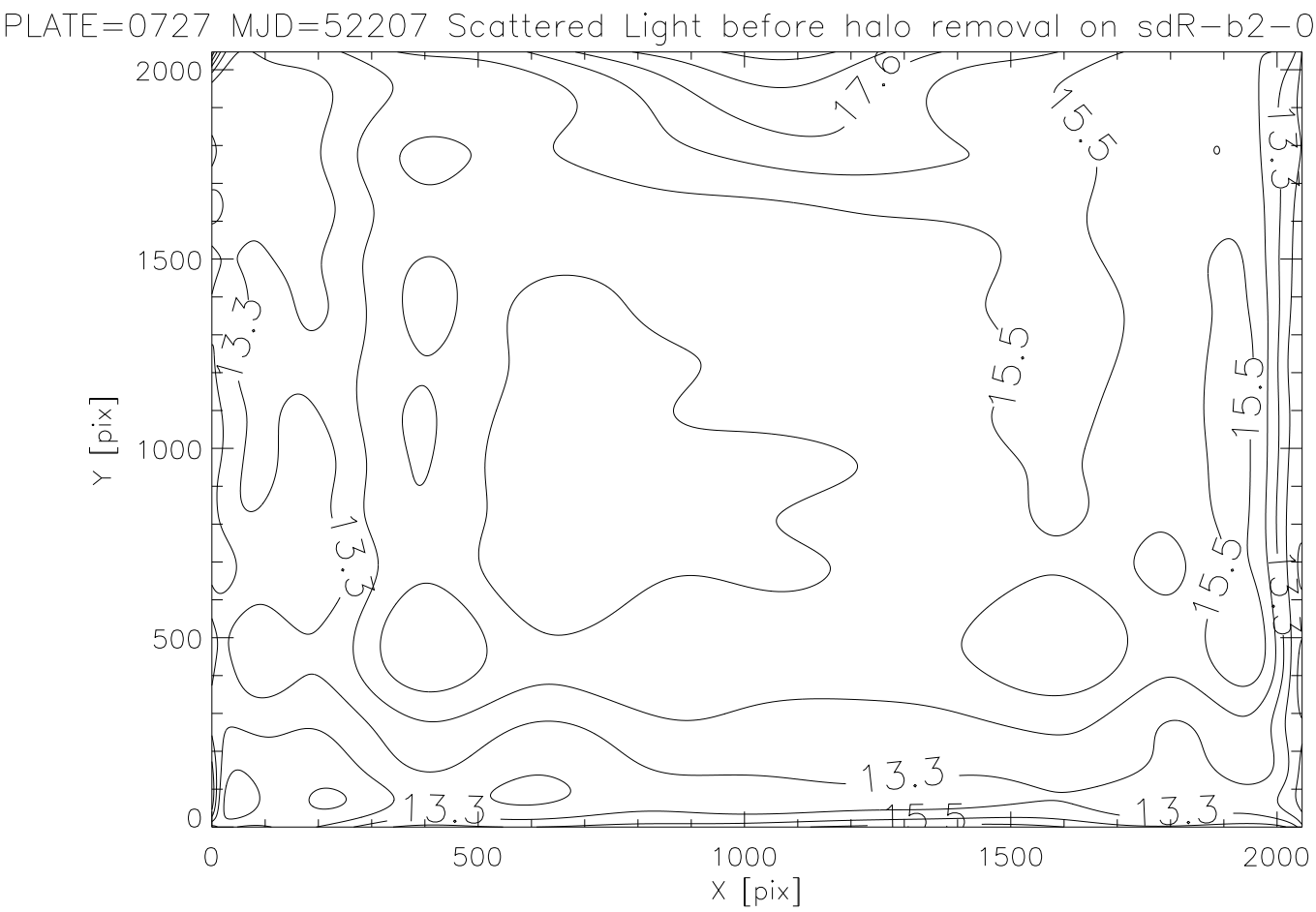

PLATE=0727 MJD=52207 sdR-b2-00011506.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
−600
−800
5570
5575
5580
5585
5590
λ [A]

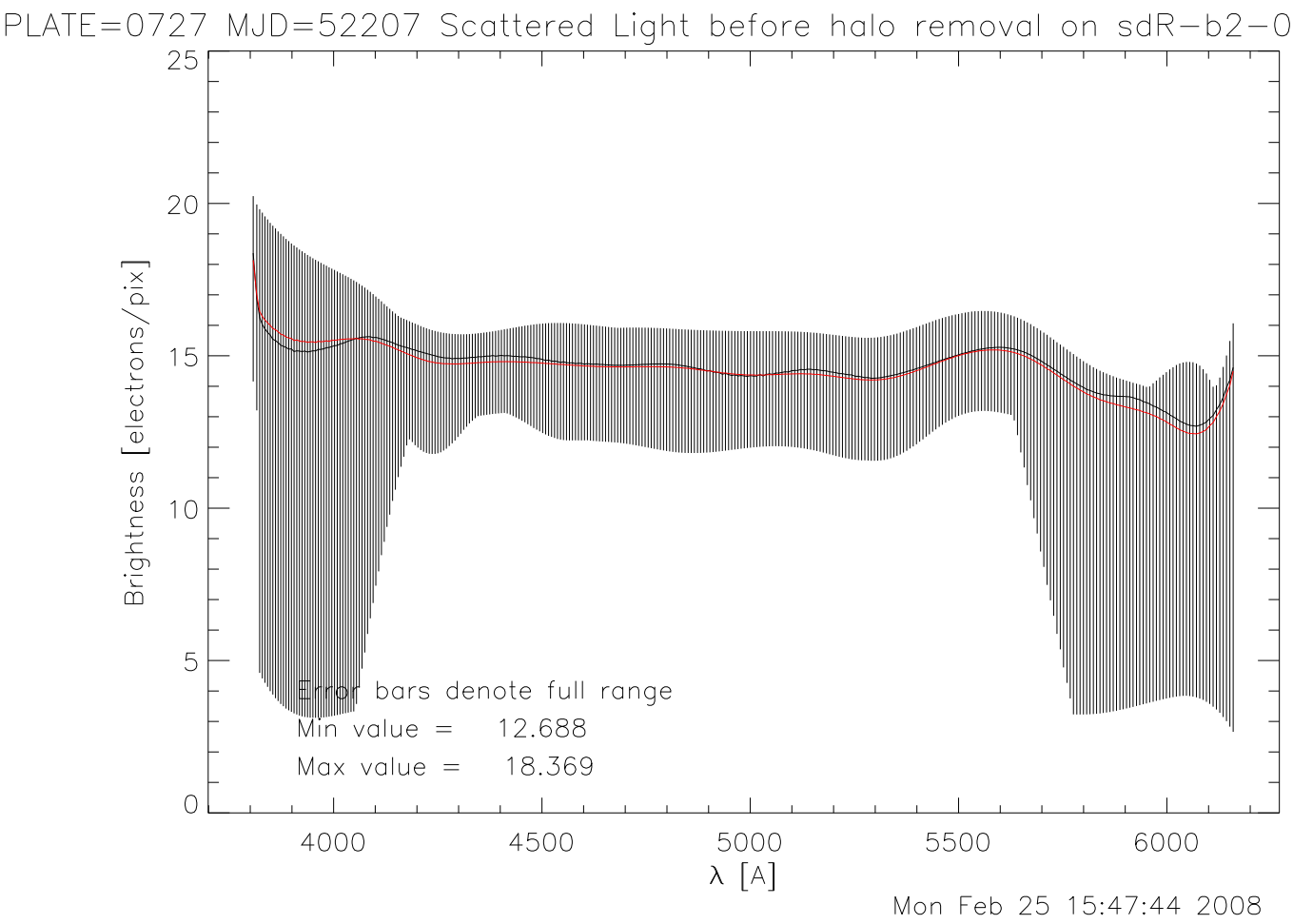

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-b2-00011506.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

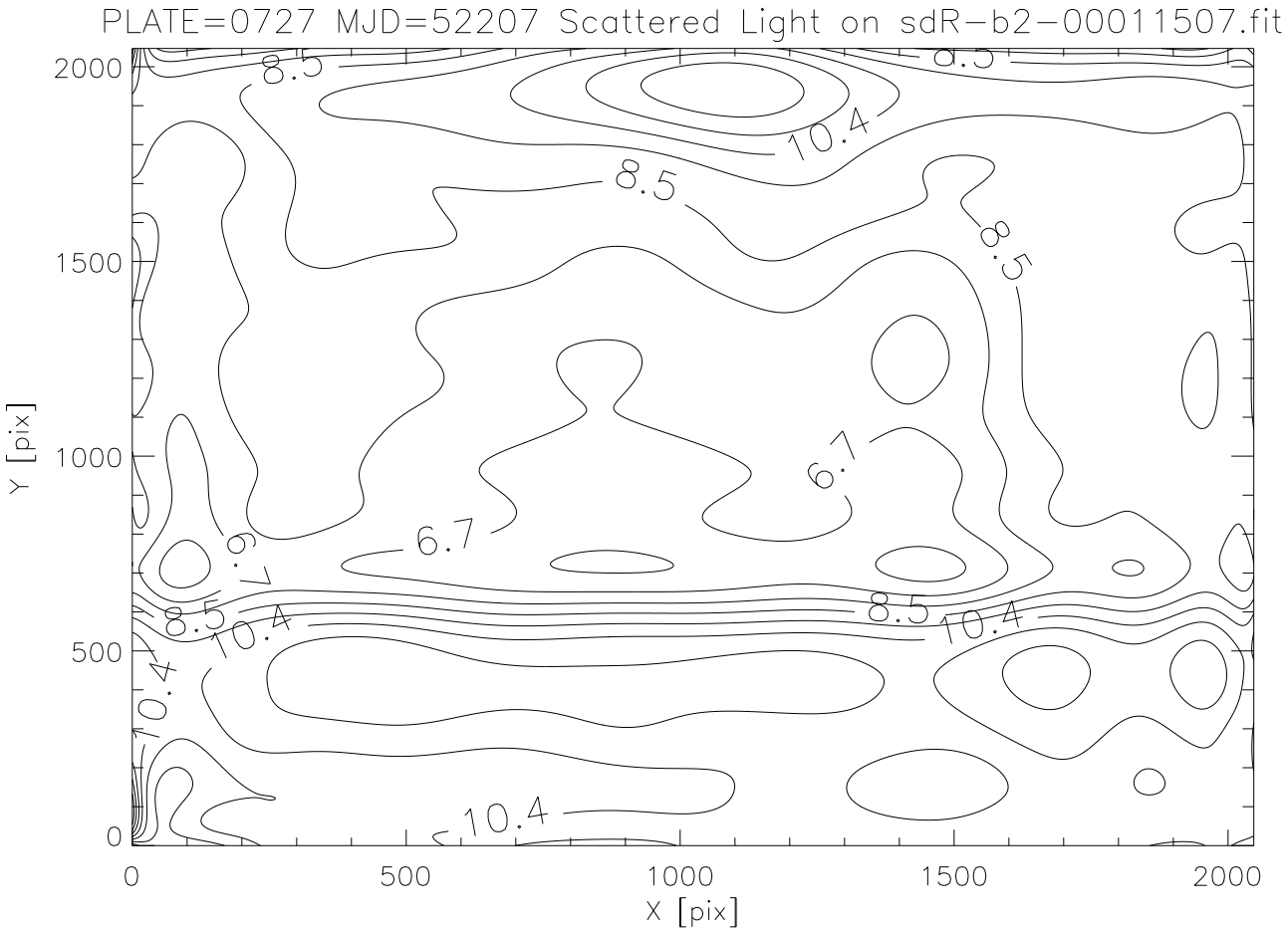

PLATE=0727 MJD=52207 sdR-b2-00011506.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 18.53 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

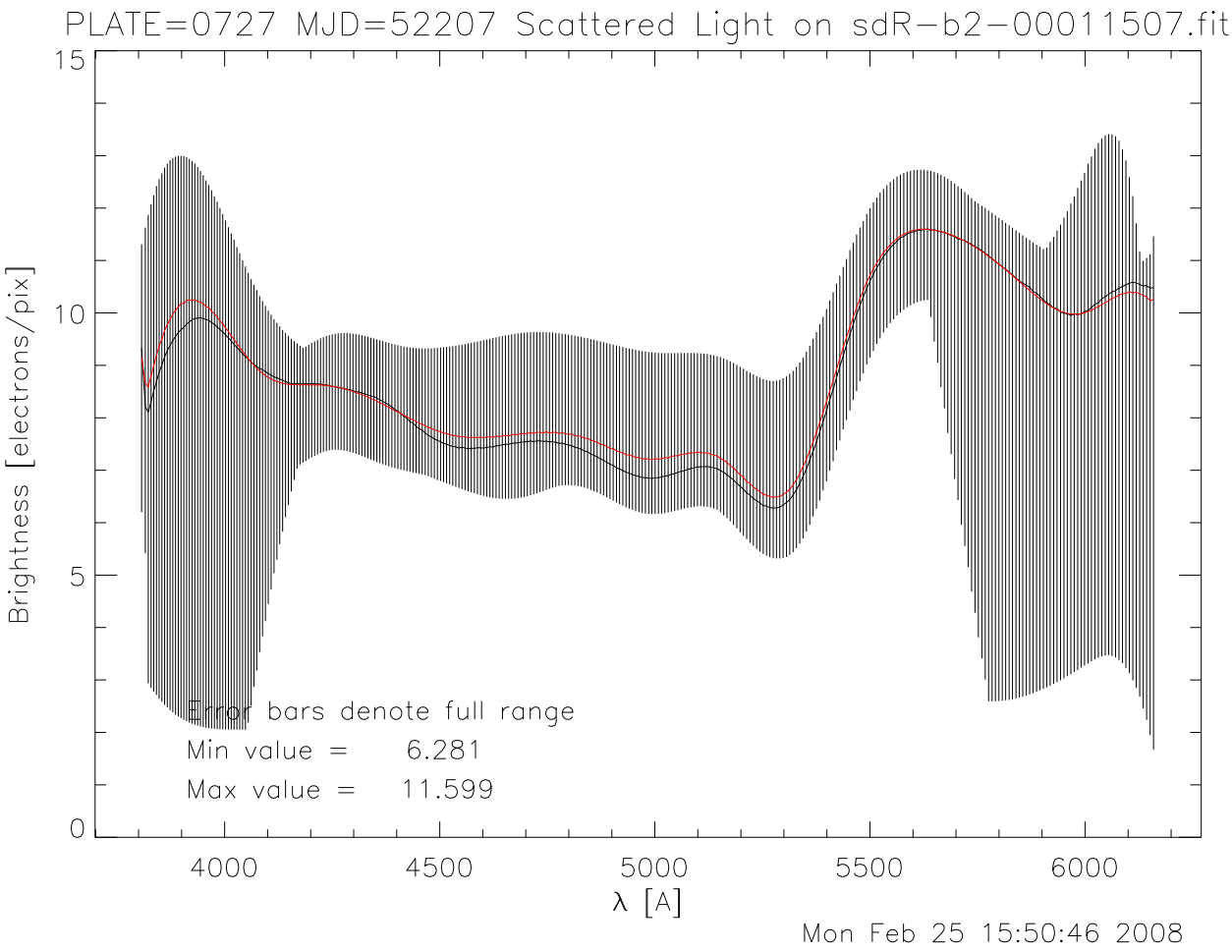

PLATE=0727 MJD=52207 sdR-b2-00011506.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.29 %
Fiber number
Focal Distance [mm]
Airmass

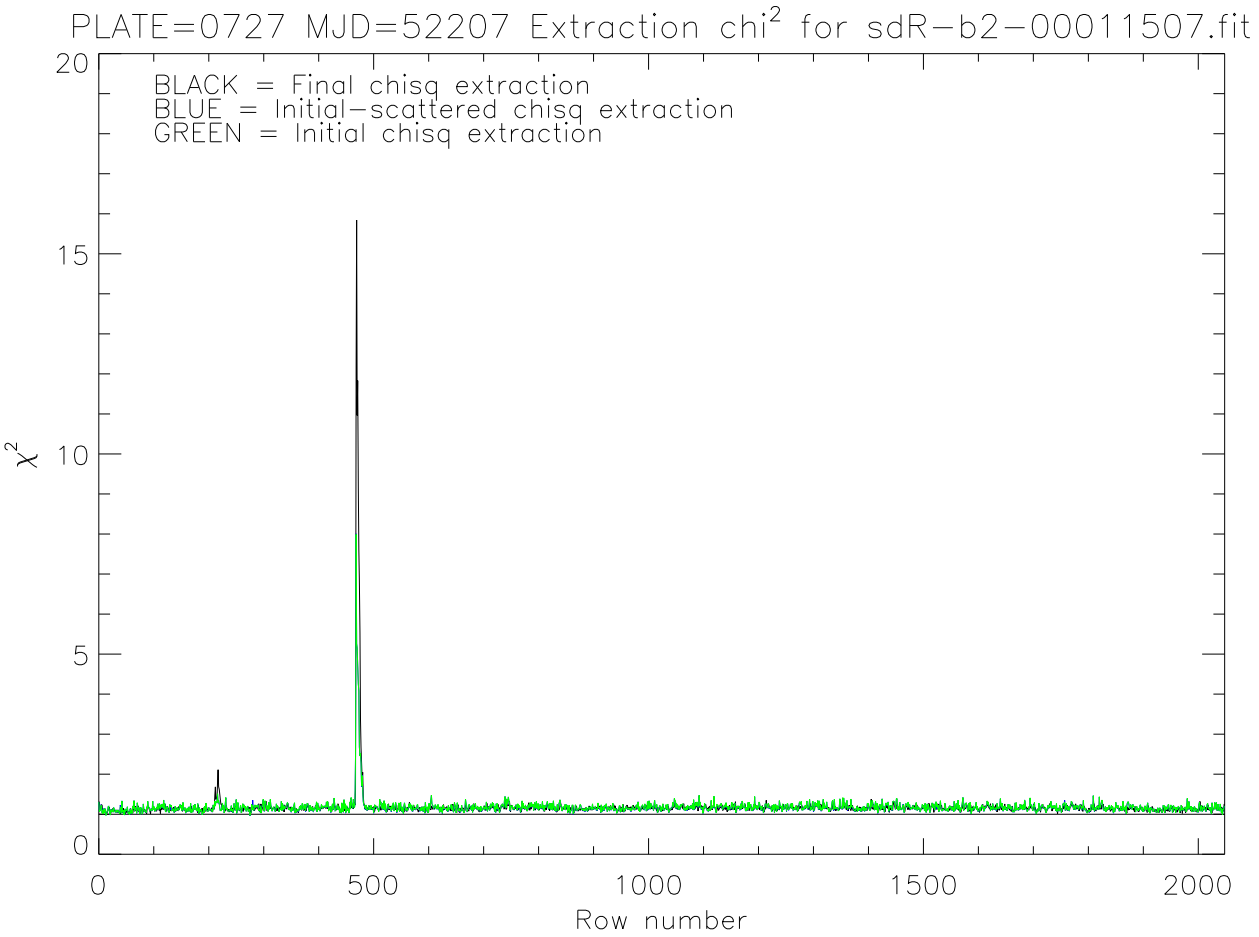

PLATE=0727 MJD=52207 Fiber−Flats for sdR−b2−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.633
Max value = 1.226
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:46:53 2008

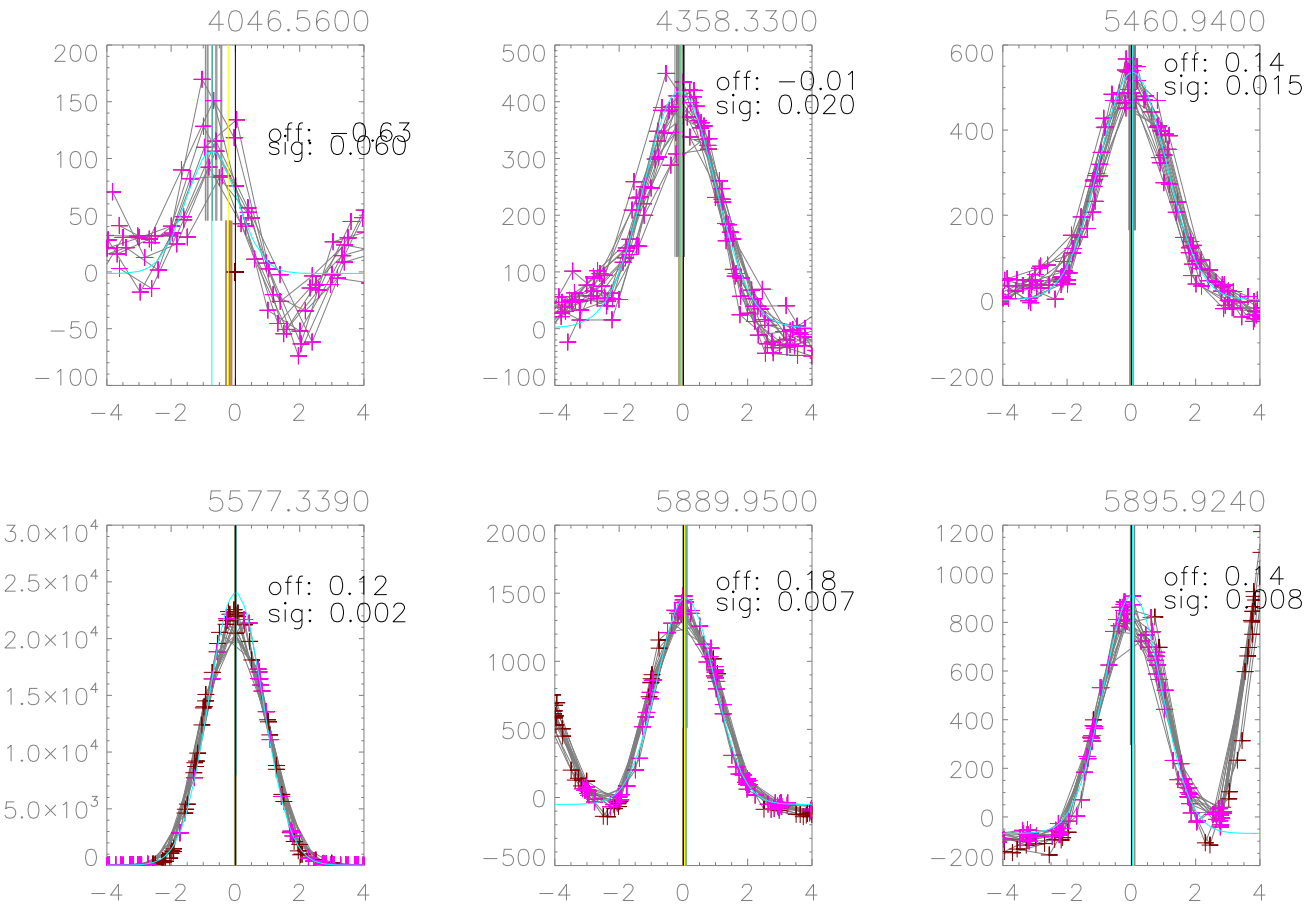

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-b2-00011507.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
17.8
15.5
13.3
13.3
15.5
15.5
13.3
13.3
15.5
13.3
13.3
13.3
15.5
13.3

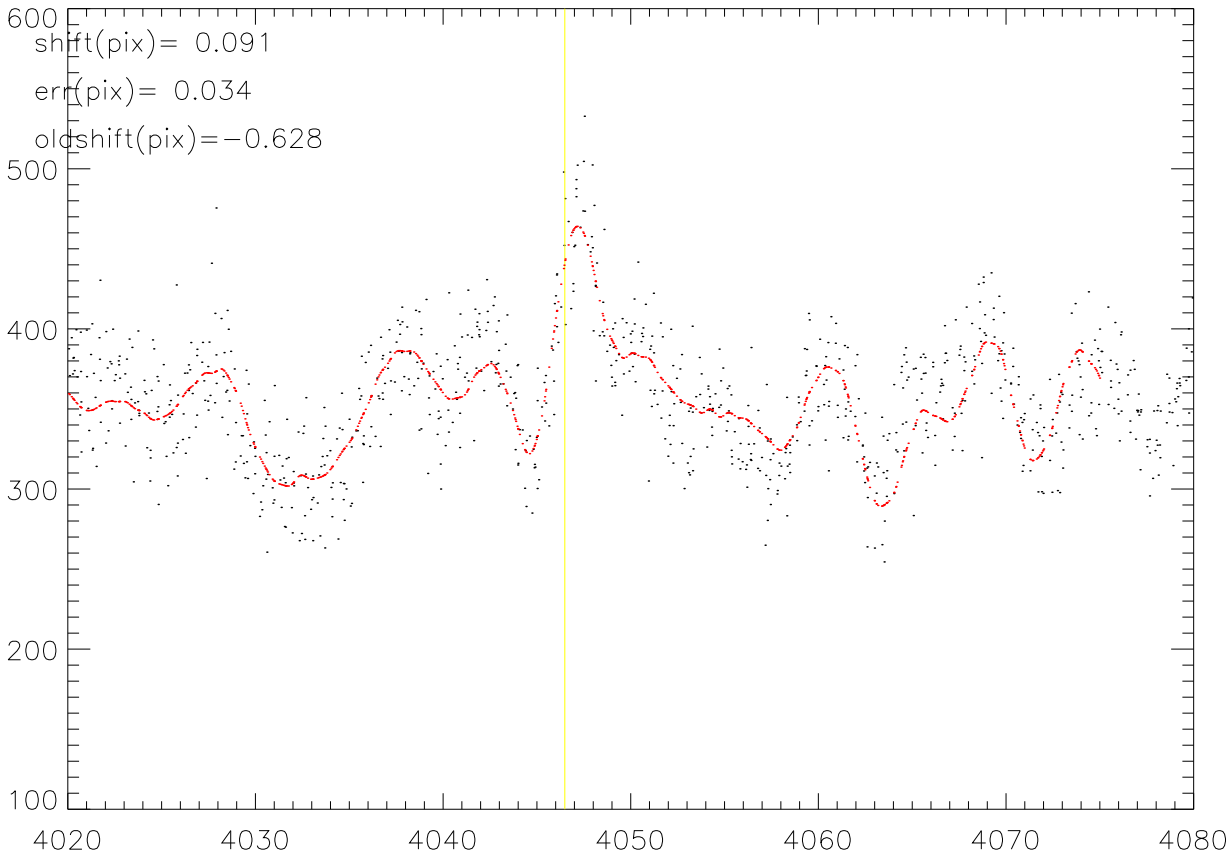

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-b2-00011507.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 12.688
Max value = 18.369
Mon Feb 25 15:47:44 2008

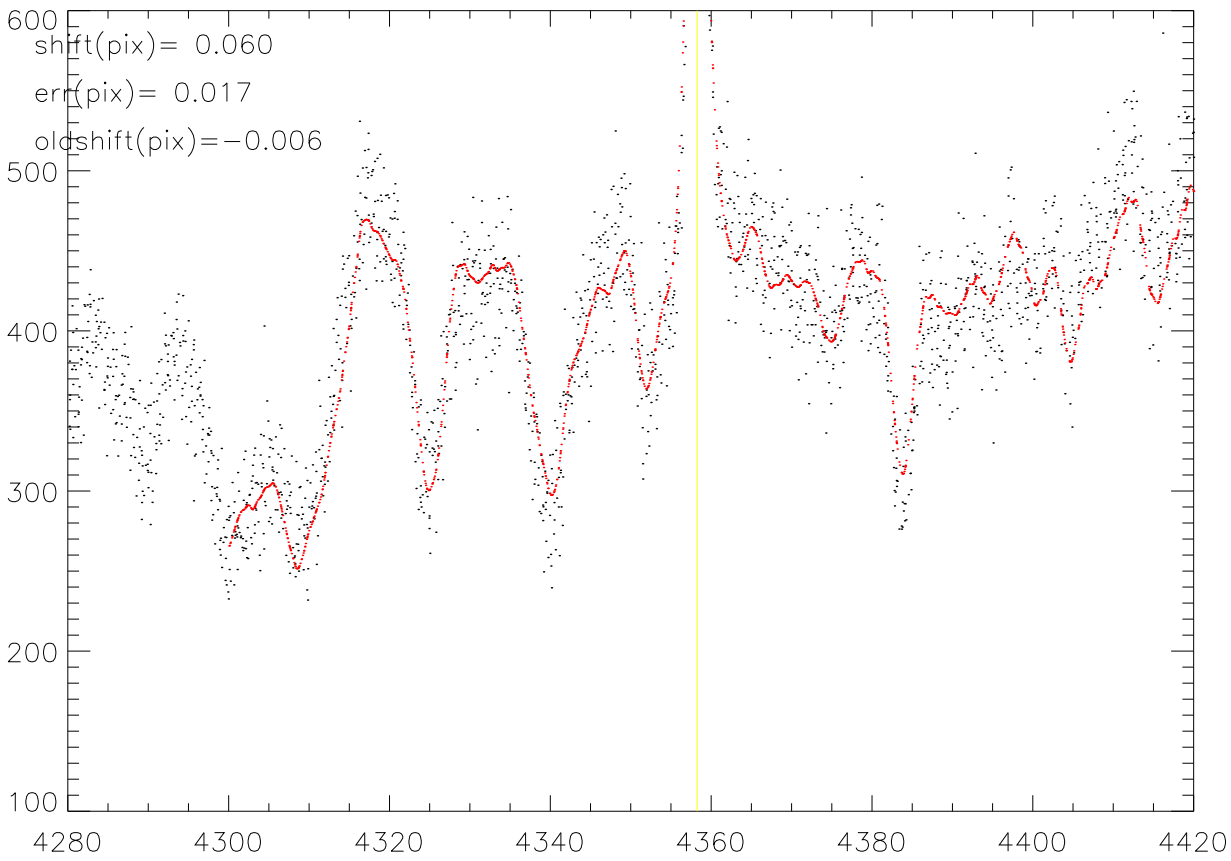

PLATE=0727 MJD=52207 Scattered Light on sdR-b2-00011507.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.5
10.4
6.7

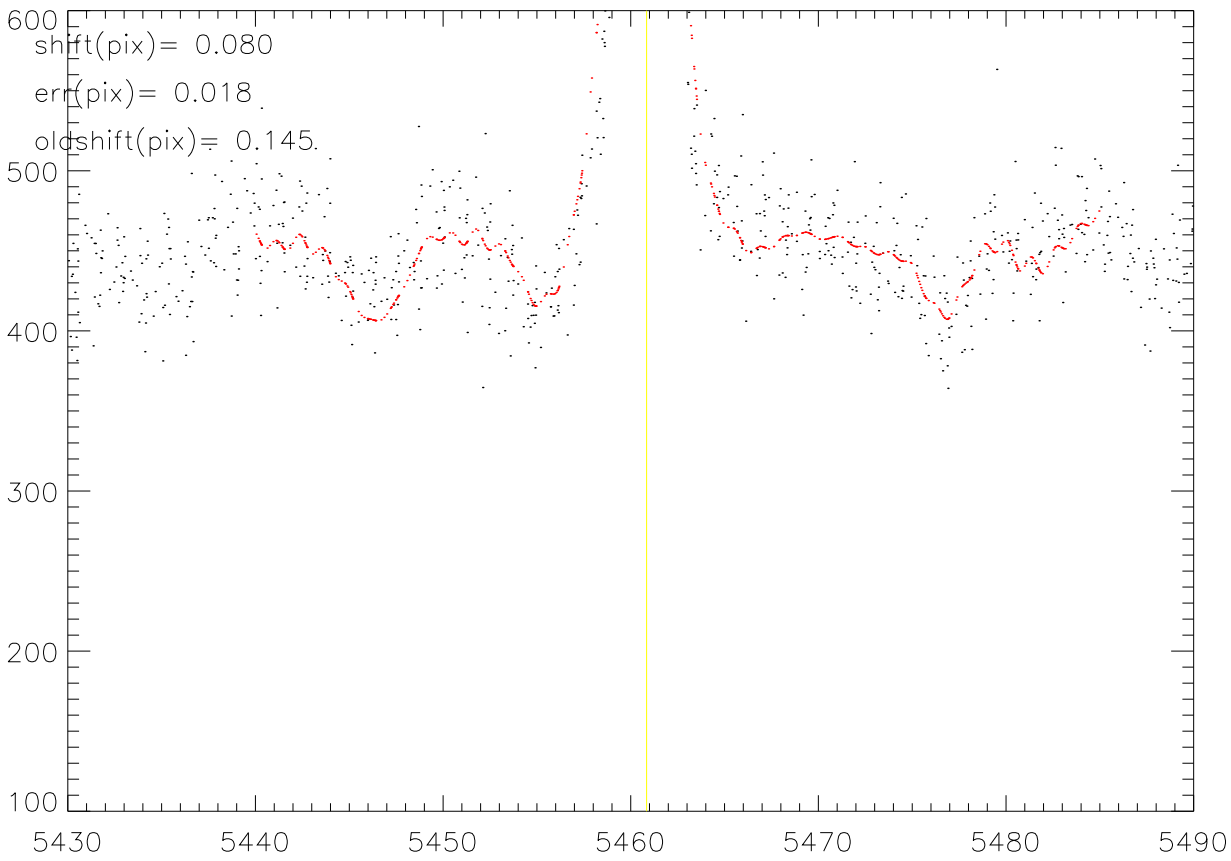

PLATE=0727 MJD=52207 Scattered Light on sdR-b2-00011507.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.281
Max value = 11.599
Mon Feb 25 15:50:46 2008

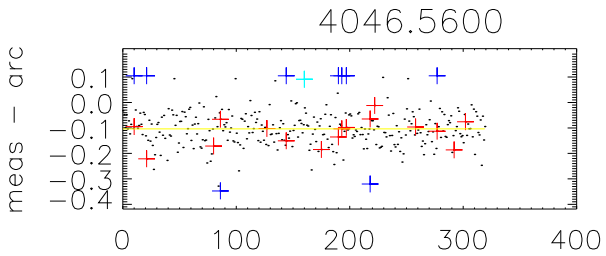

PLATE=0727 MJD=52207 Extraction chi^2 for sdR-b2-00011507.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

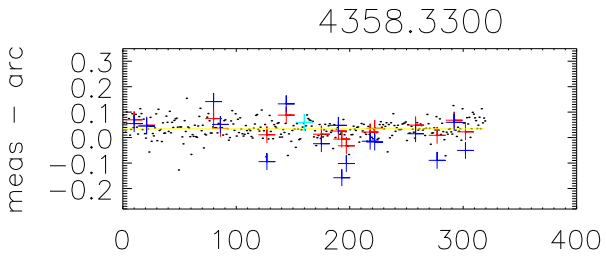

4046.5600
off: −0.63
sig: 0.060
4358.3300
off: −0.01
sig: 0.020
5460.9400
off: 0.14
sig: 0.015
5577.3390
off: 0.12
sig: 0.002
5889.9500
off: 0.18
sig: 0.007
5895.9240
off: 0.14
sig: 0.008

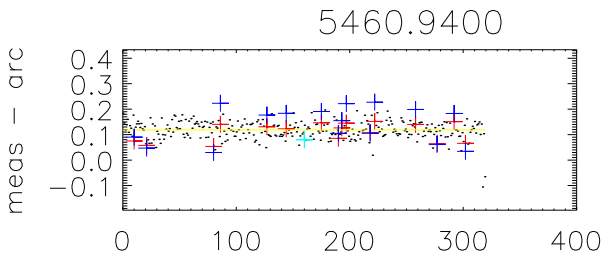

shift(pix)= 0.091
err(pix)= 0.034
oldshift(pix)=−0.628
600
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

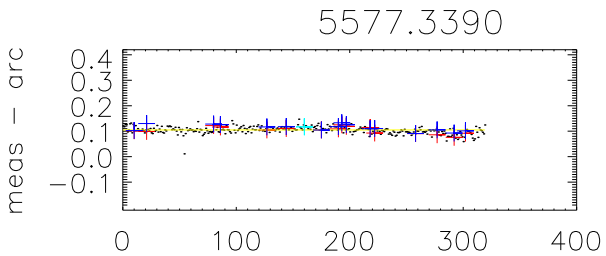

shift(pix)= 0.060
err(pix)= 0.017
oldshift(pix)=−0.006
600
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

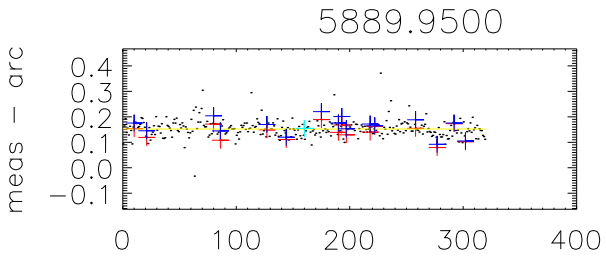

shift(pix)= 0.080
err(pix)= 0.018
oldshift(pix)= 0.145
600
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

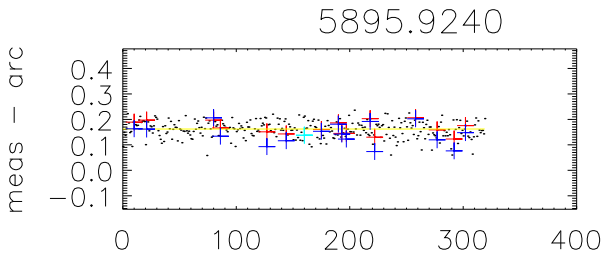

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

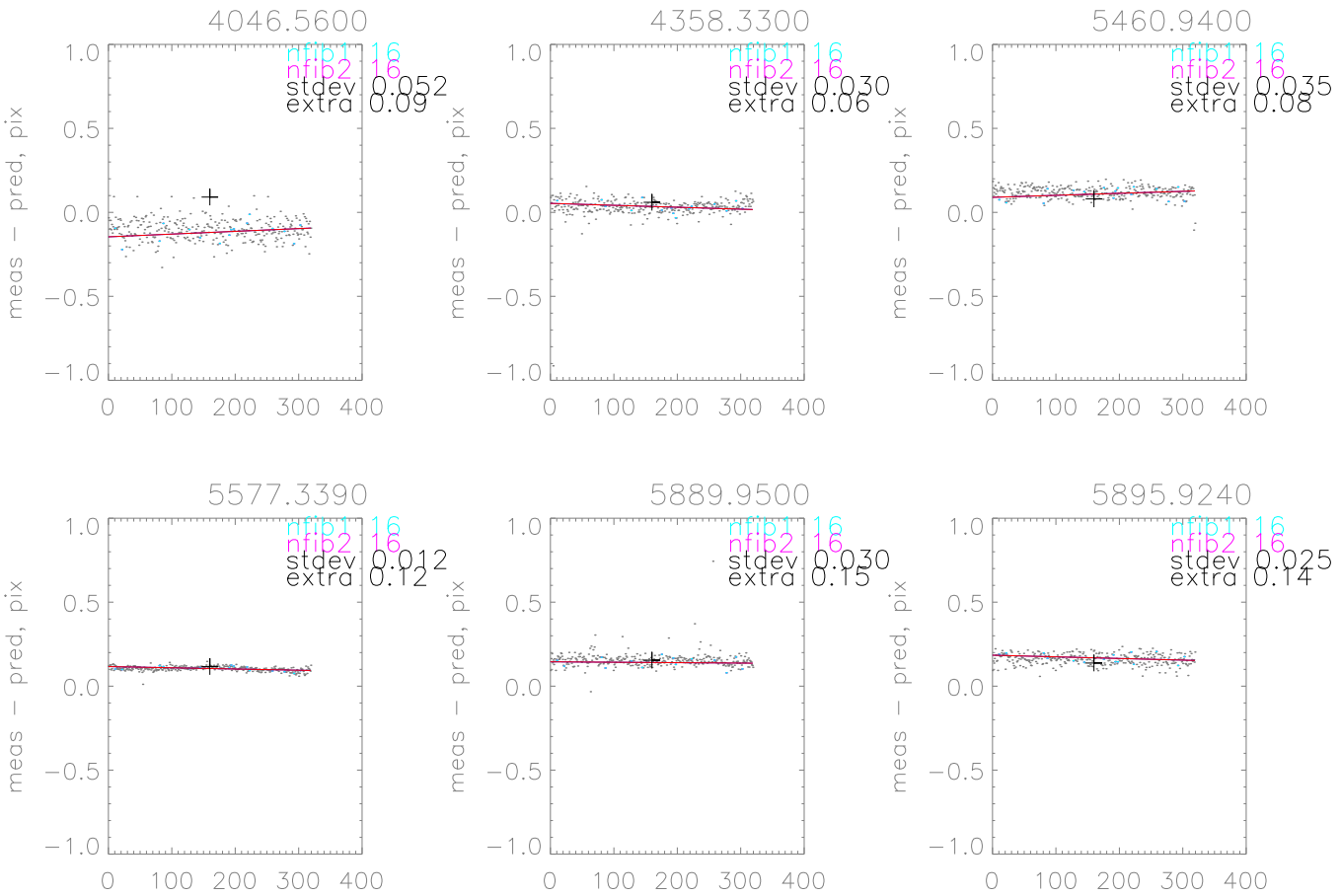

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

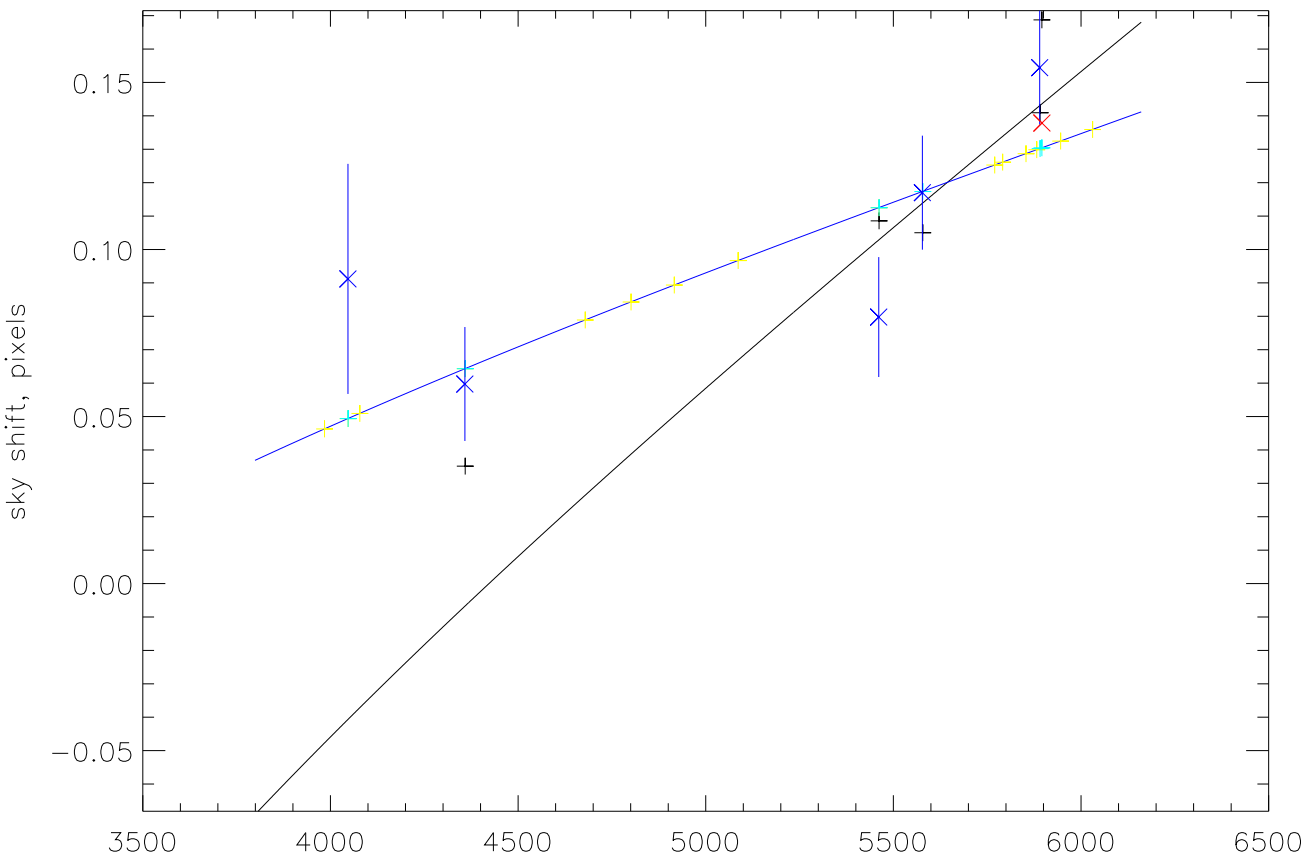

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

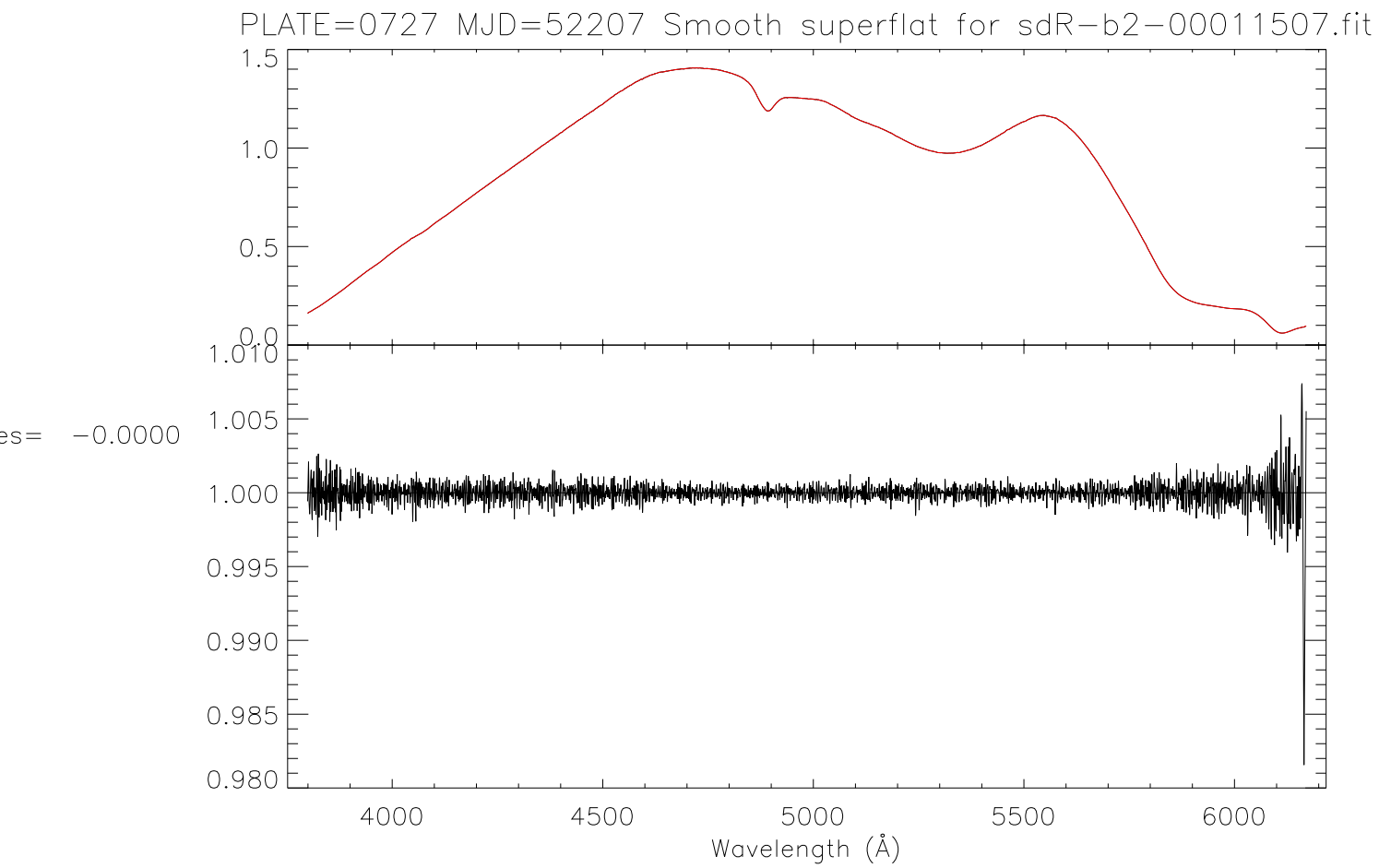

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

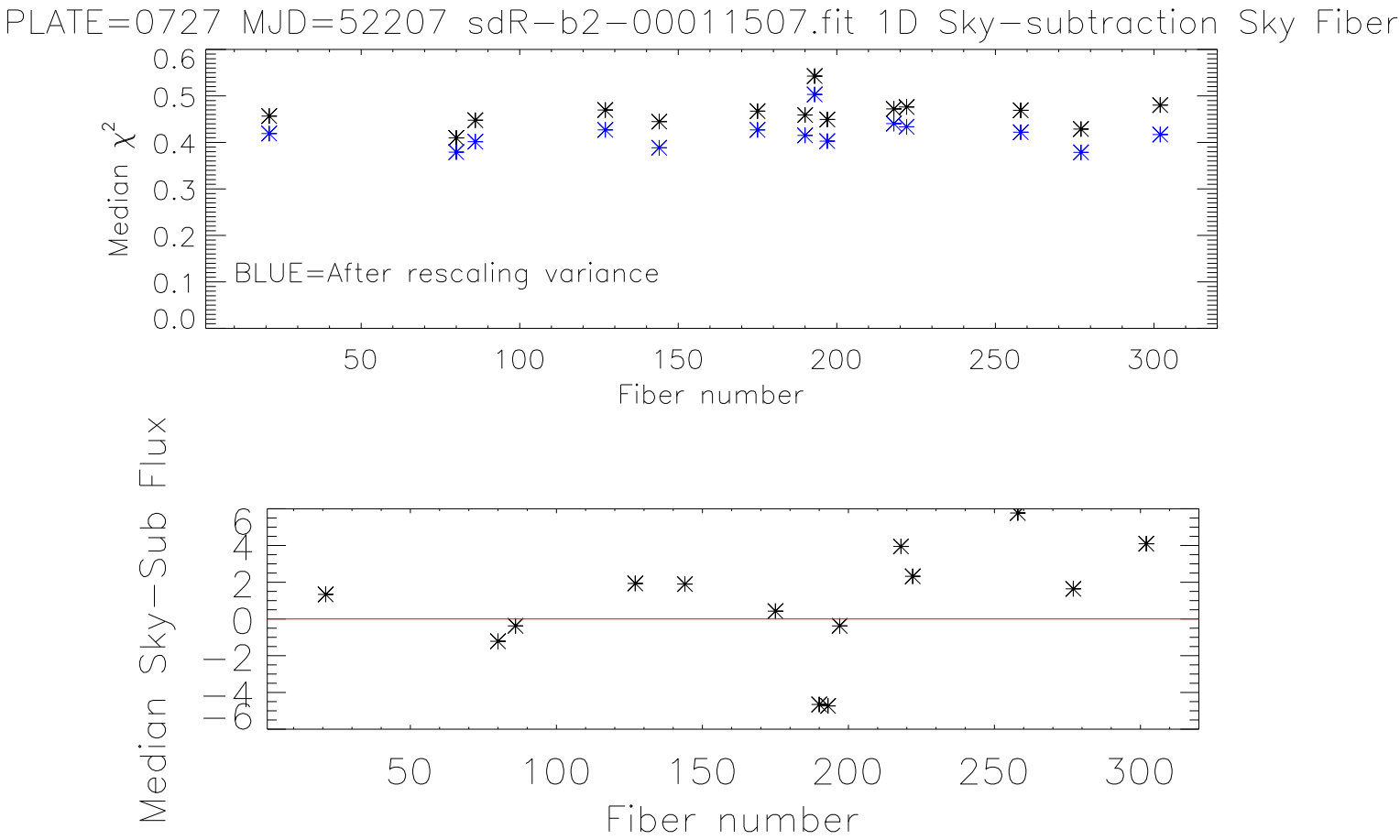

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

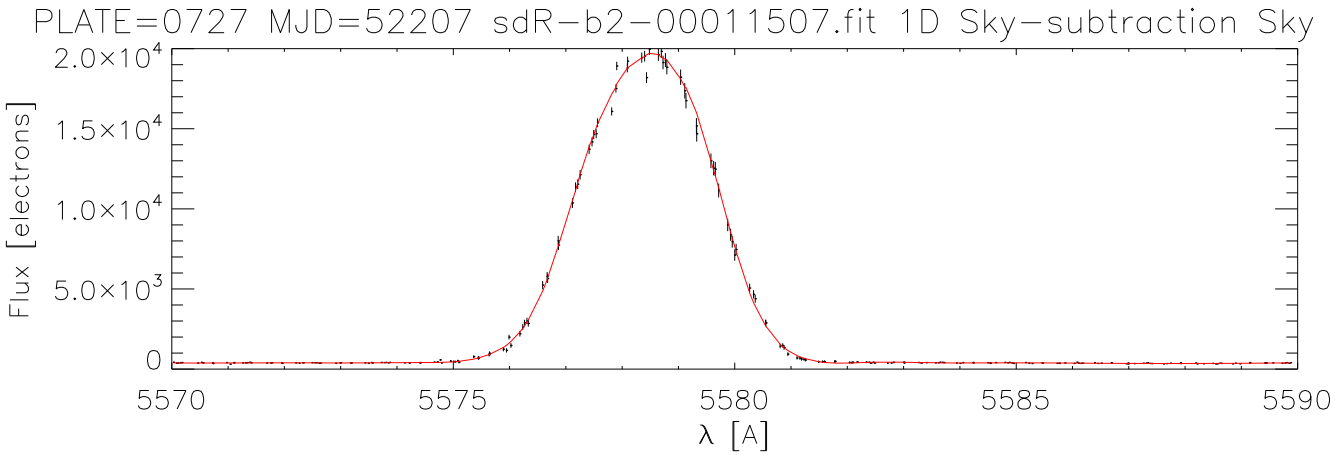

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

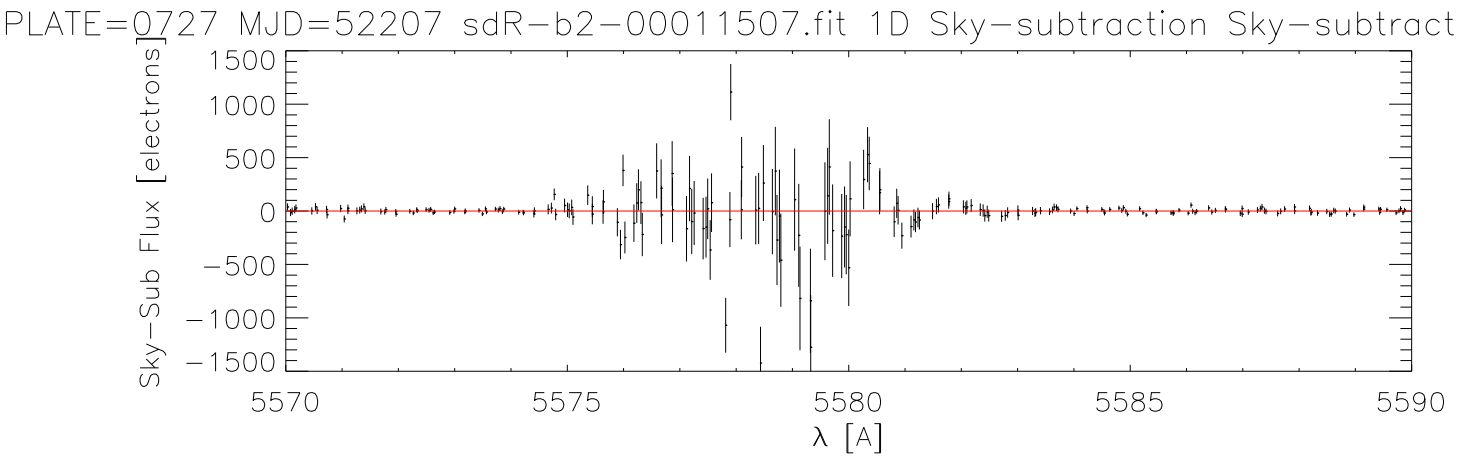

4046.5600
nfib1 16
nfib2 16
stdev 0.052
extra 0.09
4358.3300
nfib1 16
nfib2 16
stdev 0.030
extra 0.06
5460.9400
nfib1 16
nfib2 16
stdev 0.035
extra 0.08
5577.3390
nfib1 16
nfib2 16
stdev 0.012
extra 0.12
5889.9500
nfib1 16
nfib2 16
stdev 0.030
extra 0.15
5895.9240
nfib1 16
nfib2 16
stdev 0.025
extra 0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

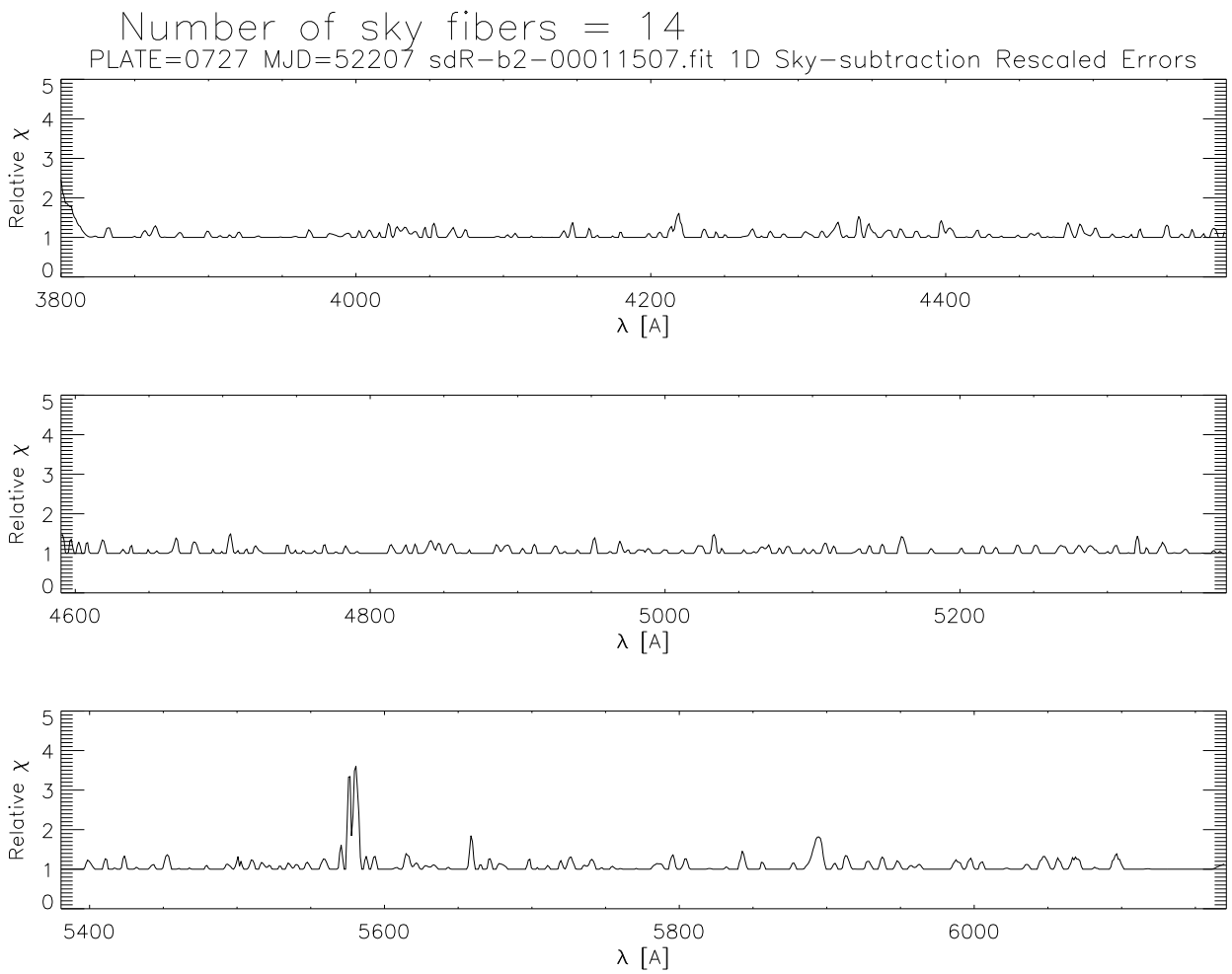

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
3500
4000
4500
5000
5500
6000
6500

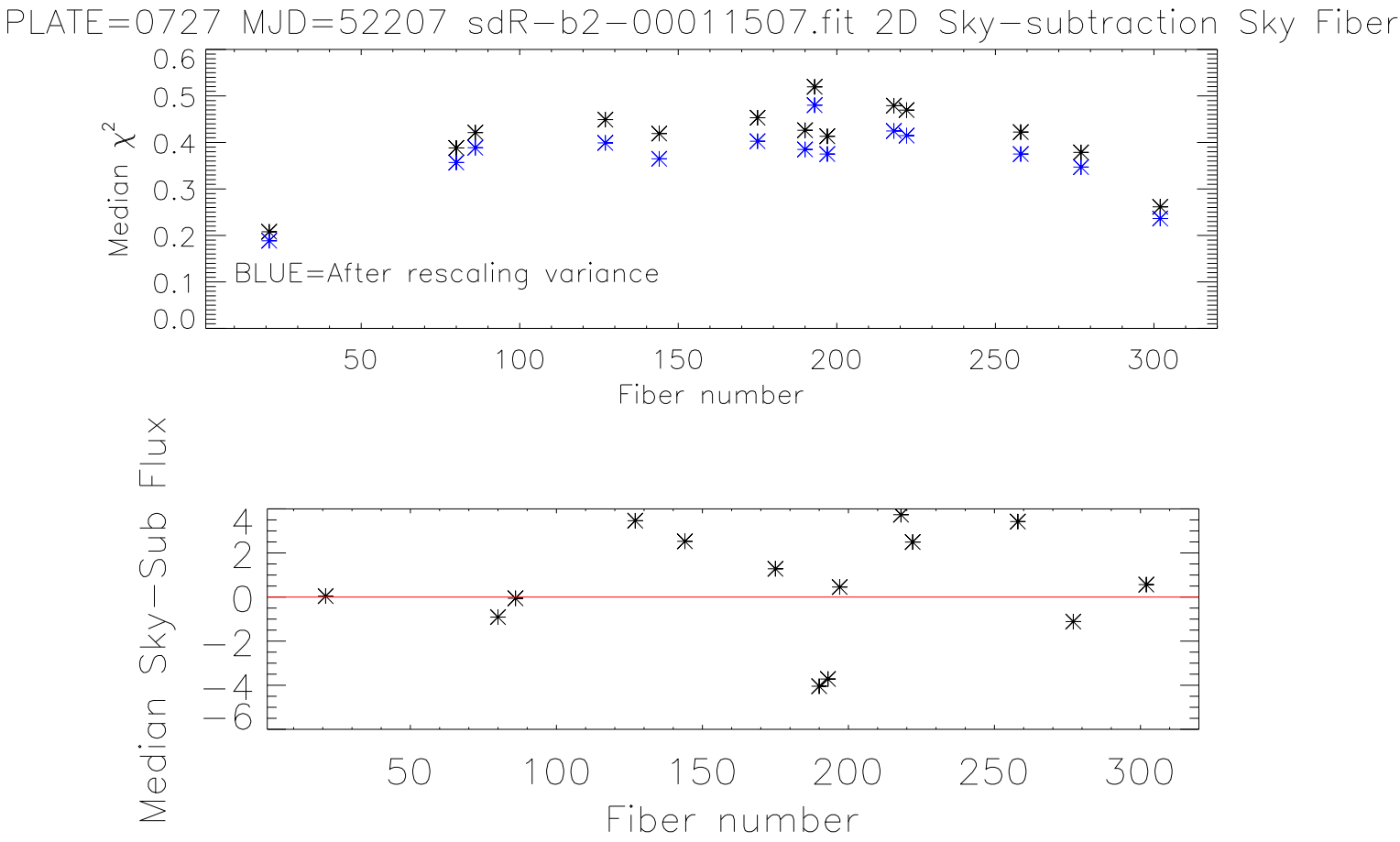

PLATE=0727 MJD=52207 Smooth superflat for sdR-b2-00011507.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

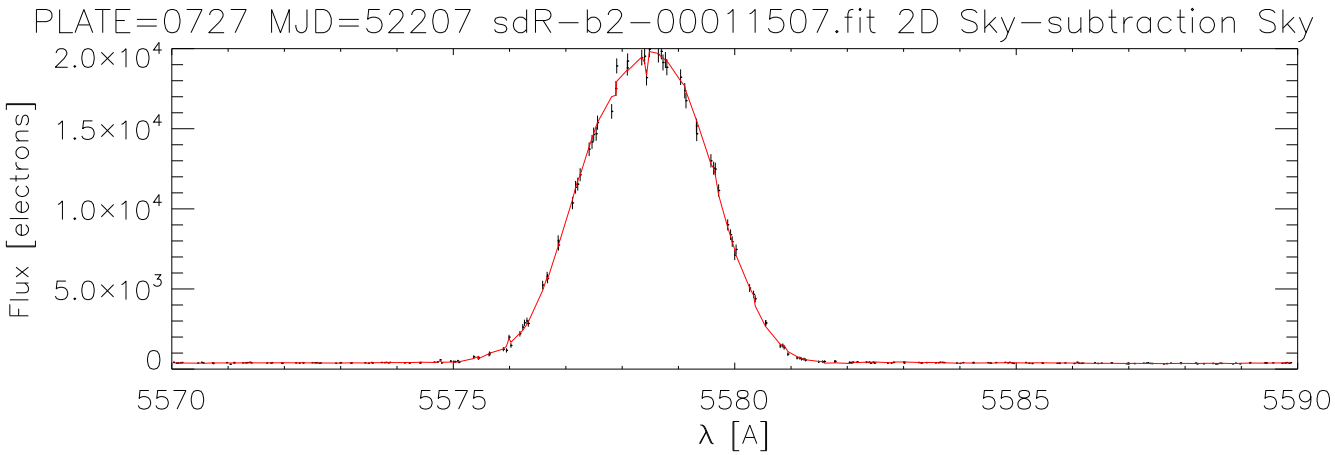

PLATE=0727 MJD=52207 sdR-b2-00011507.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

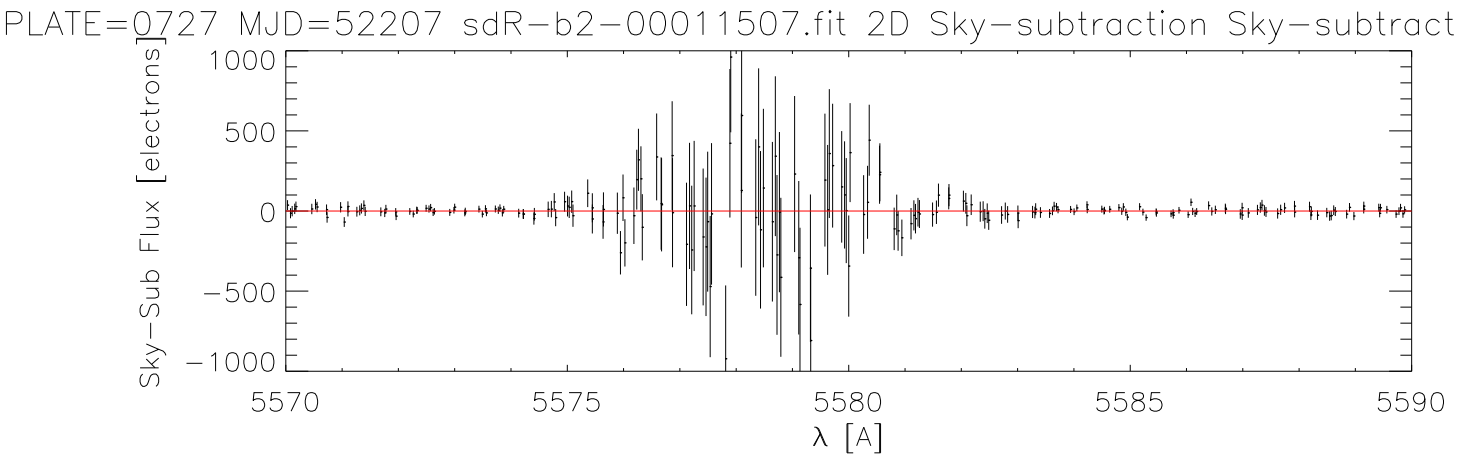

PLATE=0727 MJD=52207 sdR-b2-00011507.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

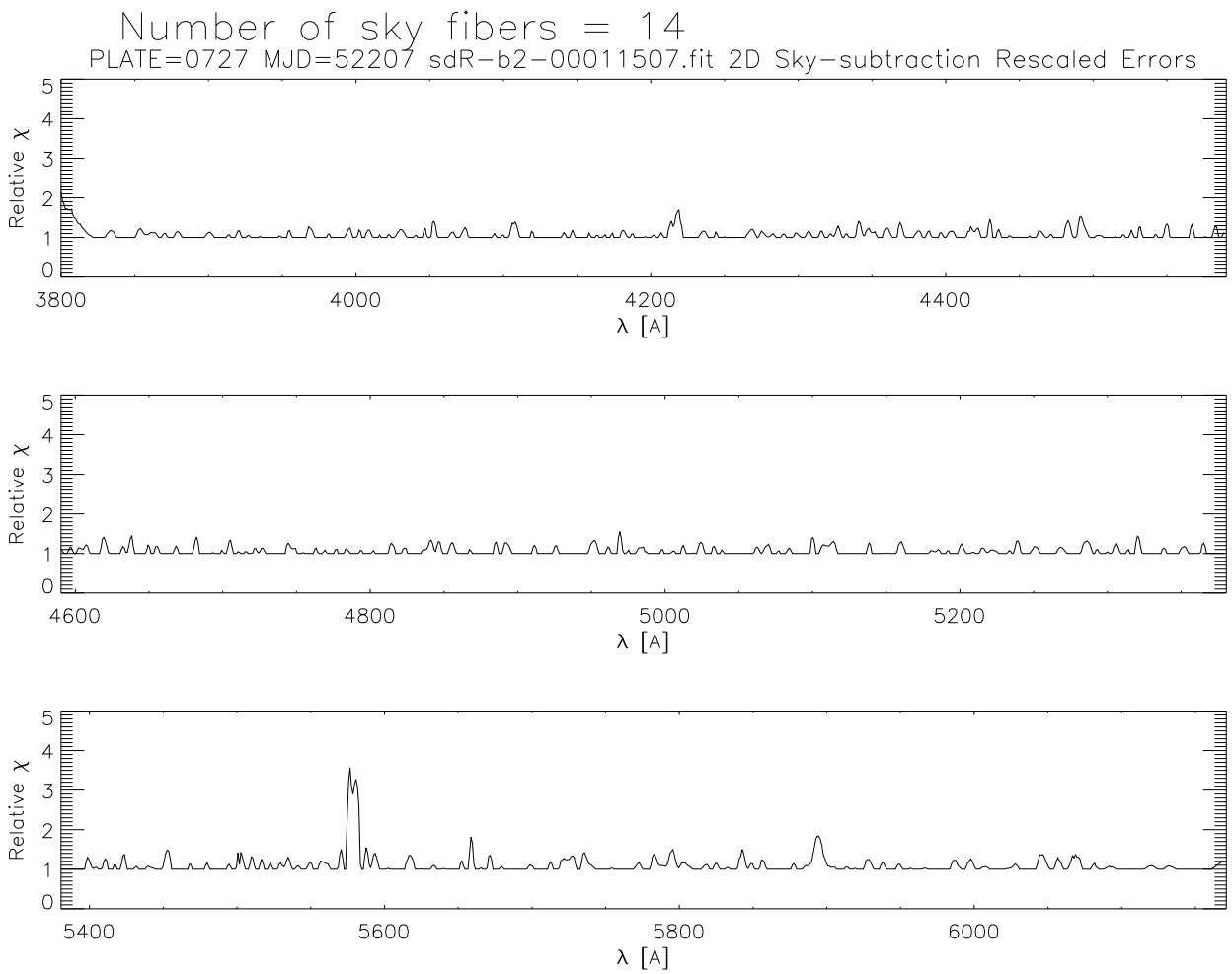

PLATE=0727 MJD=52207 sdR-b2-00011507.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
−1500
5570
5575
5580
5585
5590
λ [A]

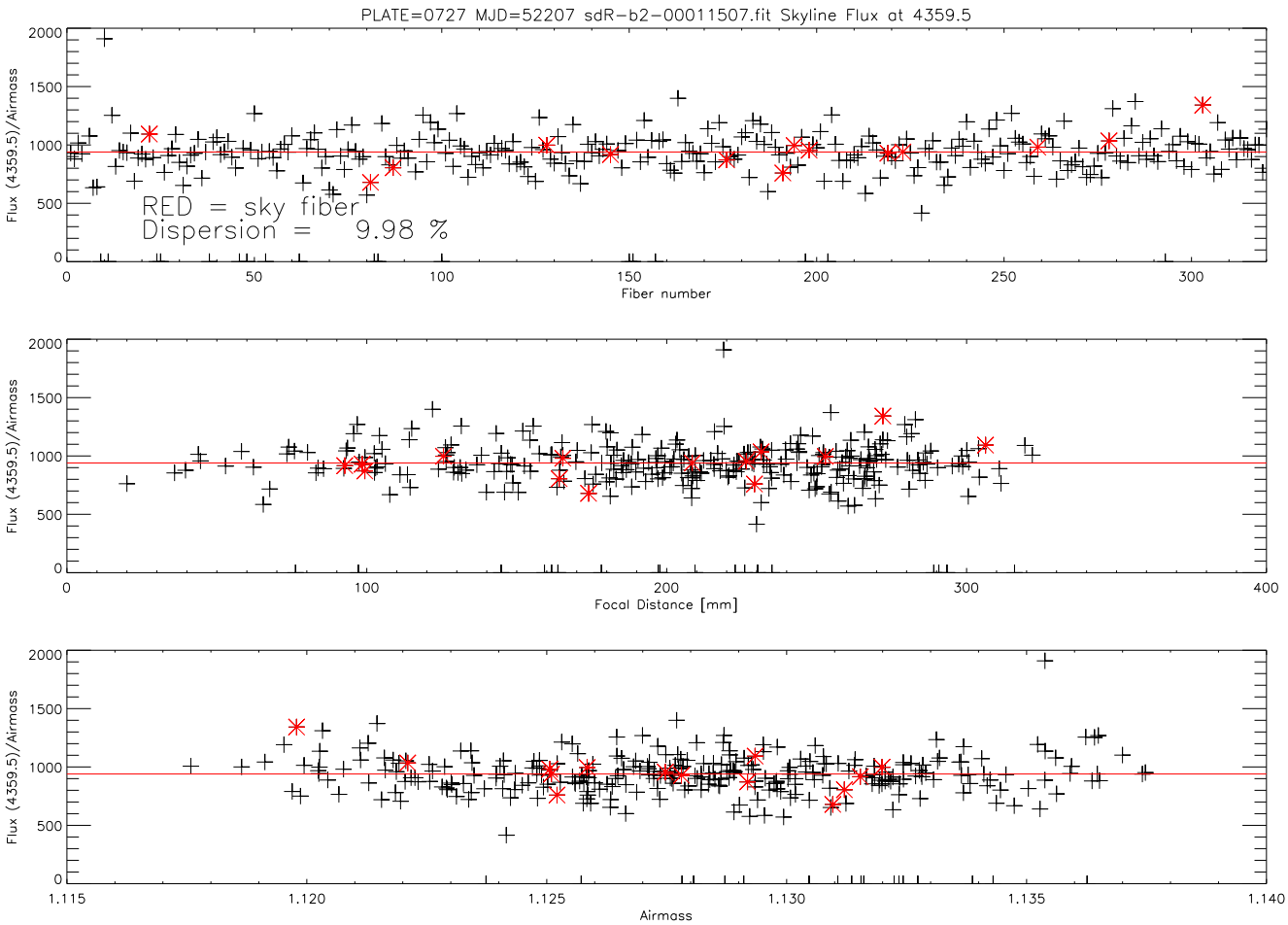

Number of sky fibers = 14
PLATE=0727 MJD=52207 sdR-b2-00011507.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

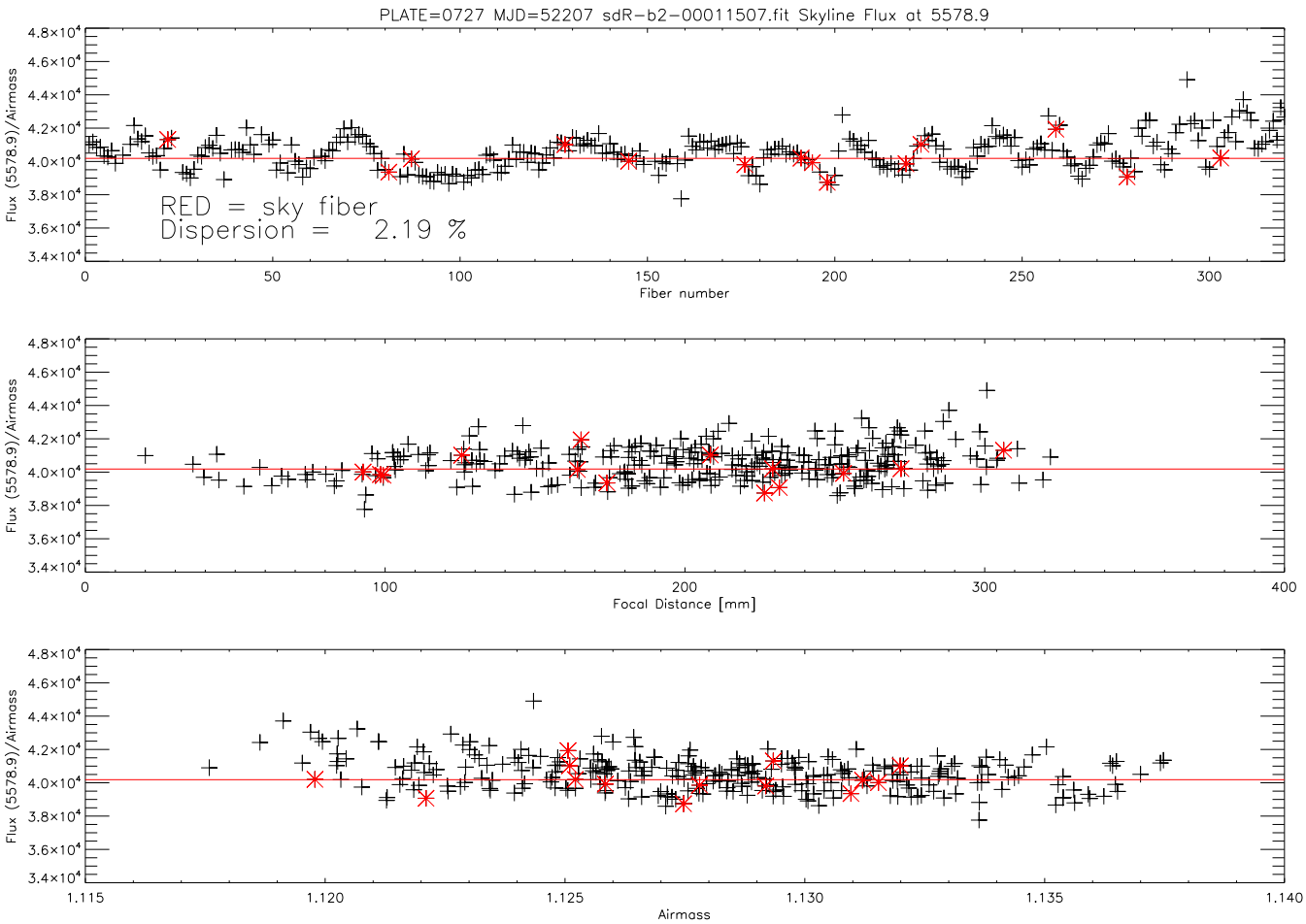

PLATE=0727 MJD=52207 sdR-b2-00011507.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

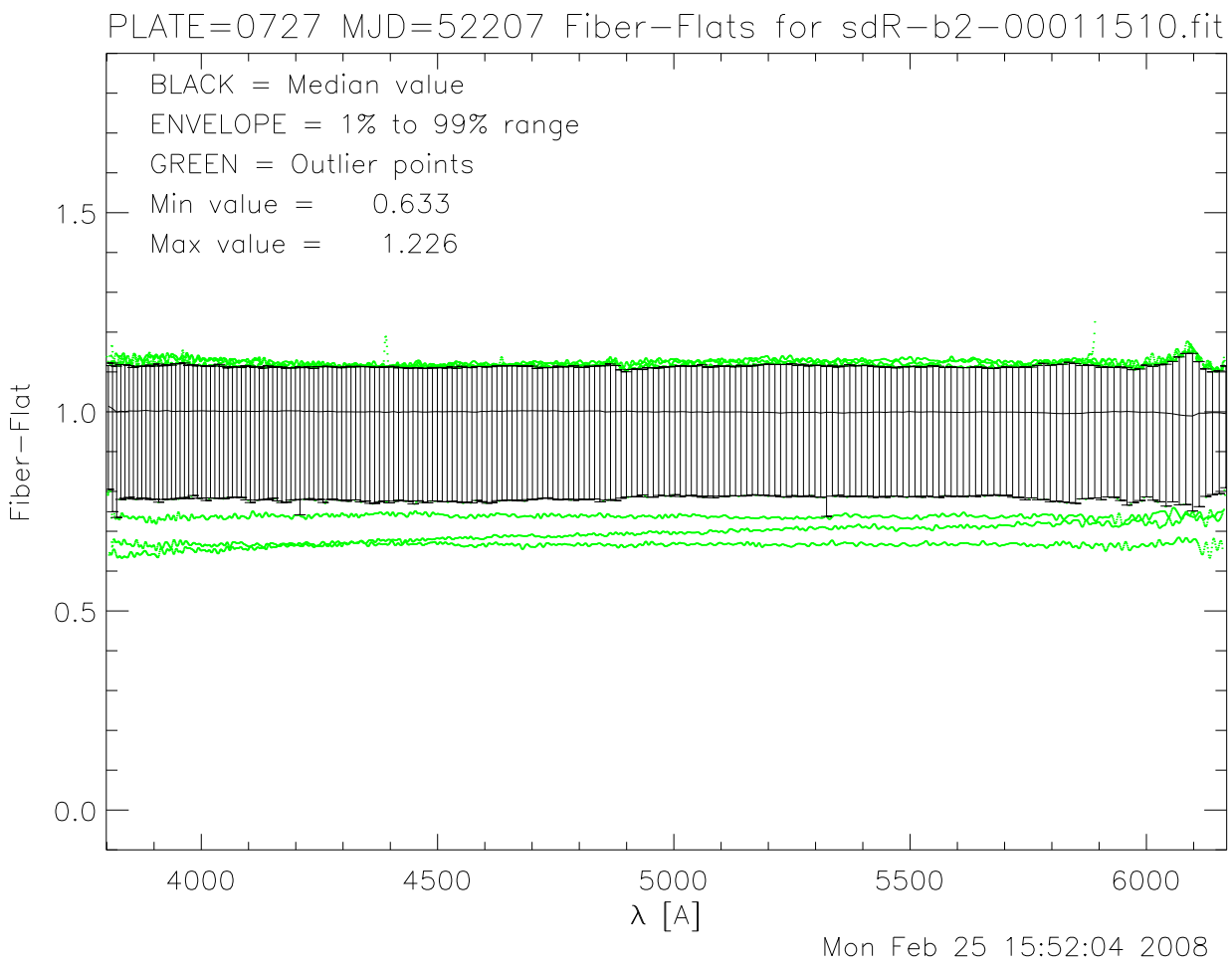

PLATE=0727 MJD=52207 sdR-b2-00011507.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

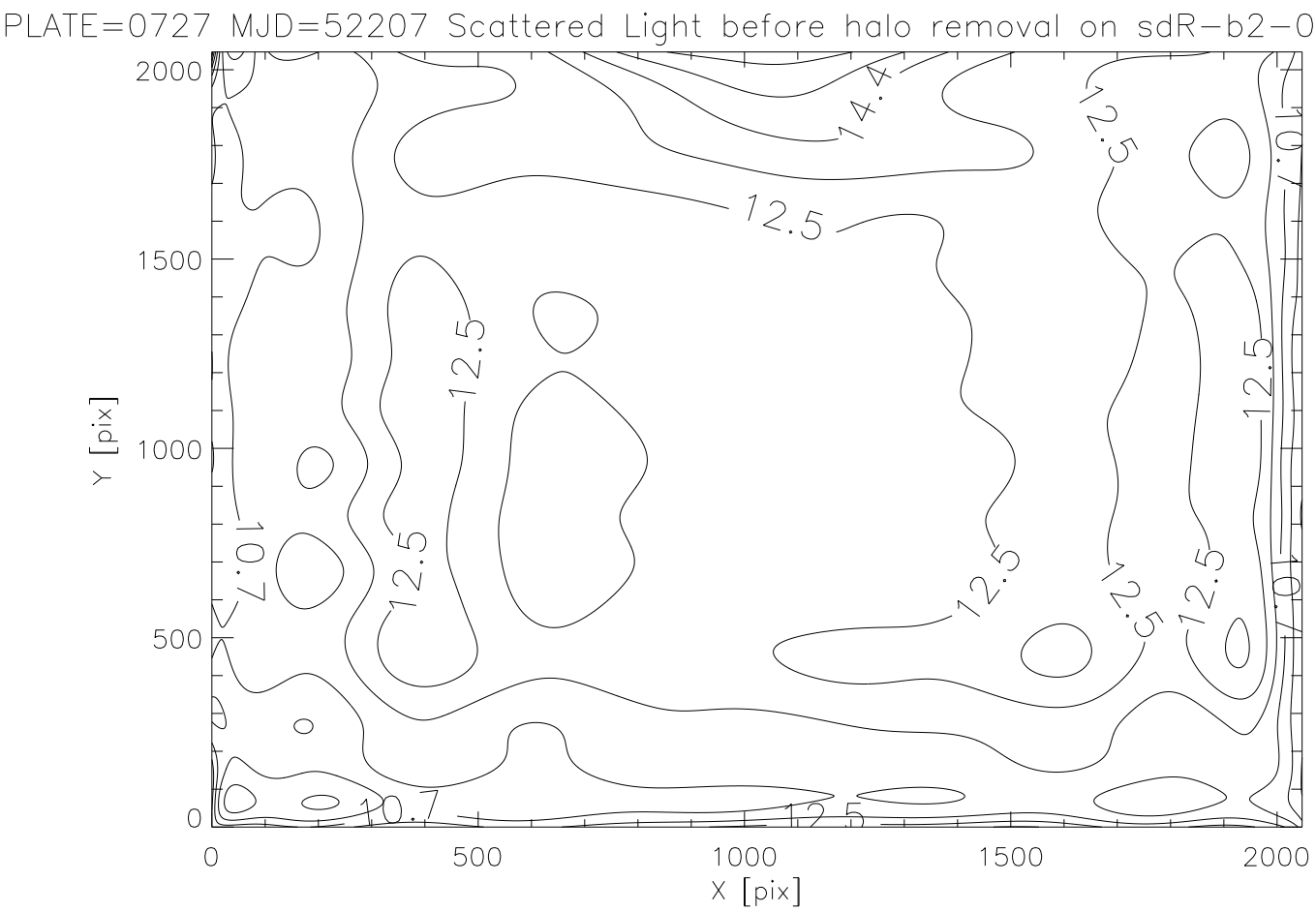

PLATE=0727 MJD=52207 sdR-b2-00011507.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

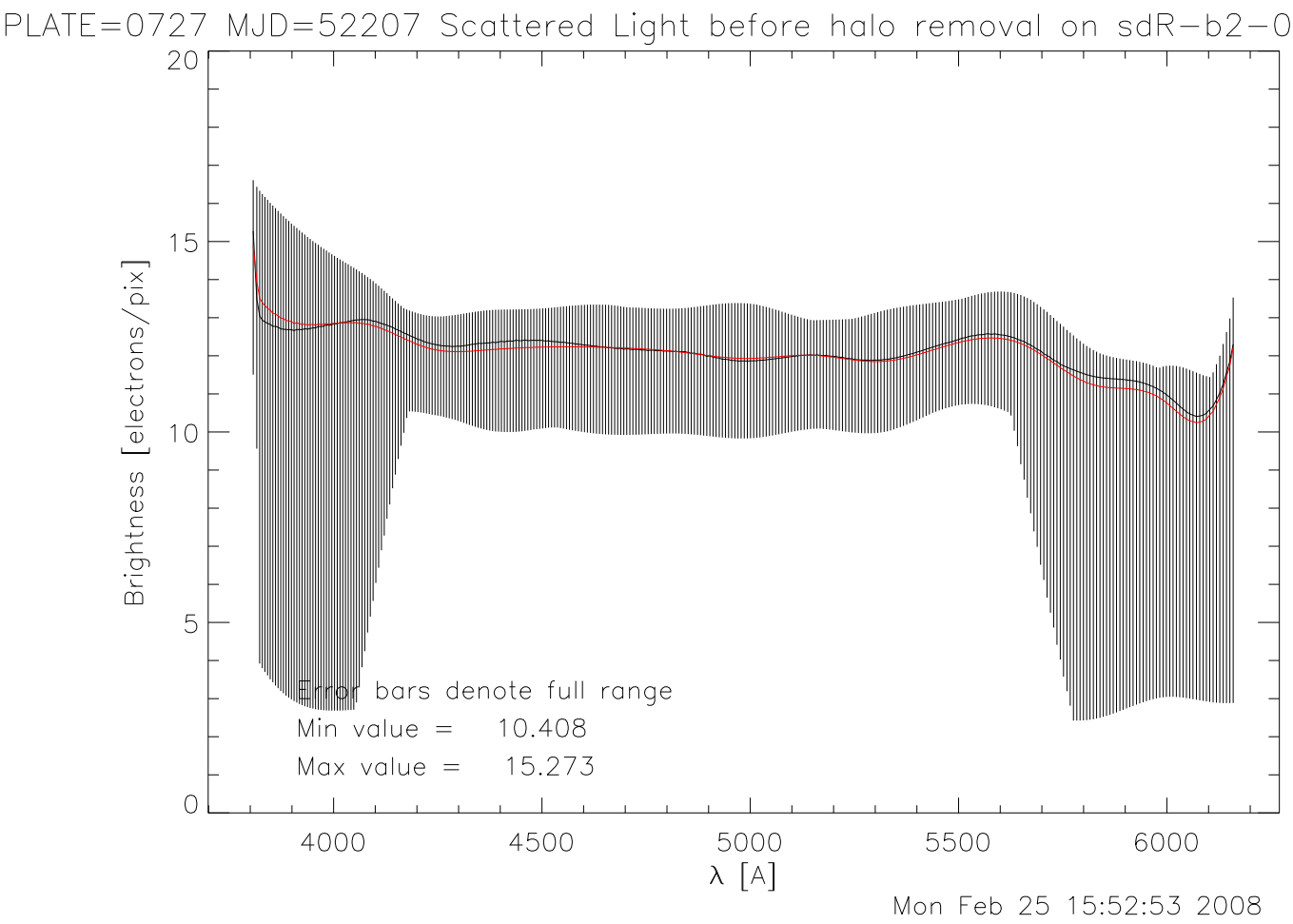

Number of sky fibers = 14
PLATE=0727 MJD=52207 sdR-b2-00011507.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

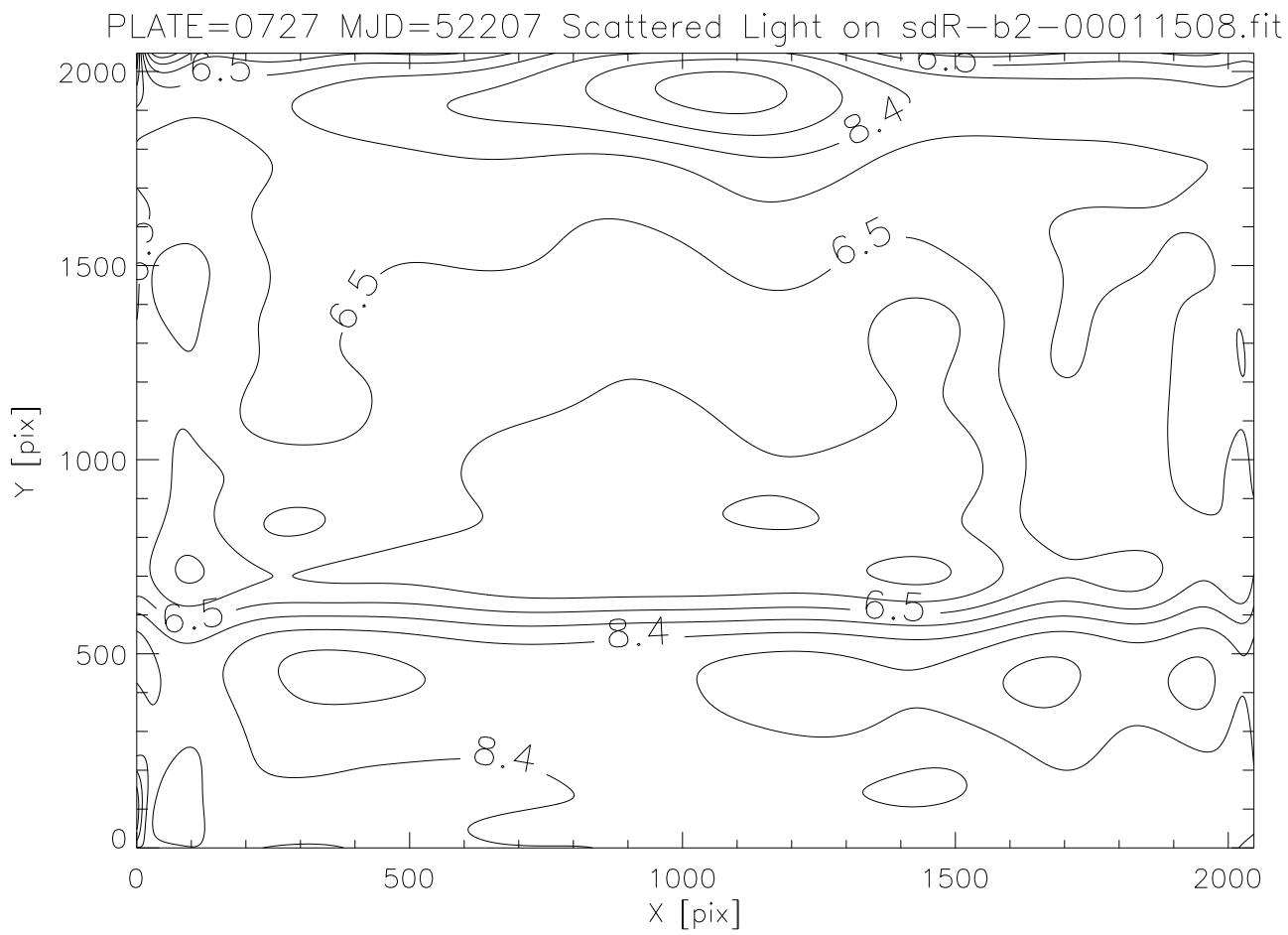

PLATE=0727 MJD=52207 sdR-b2-00011507.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.98 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

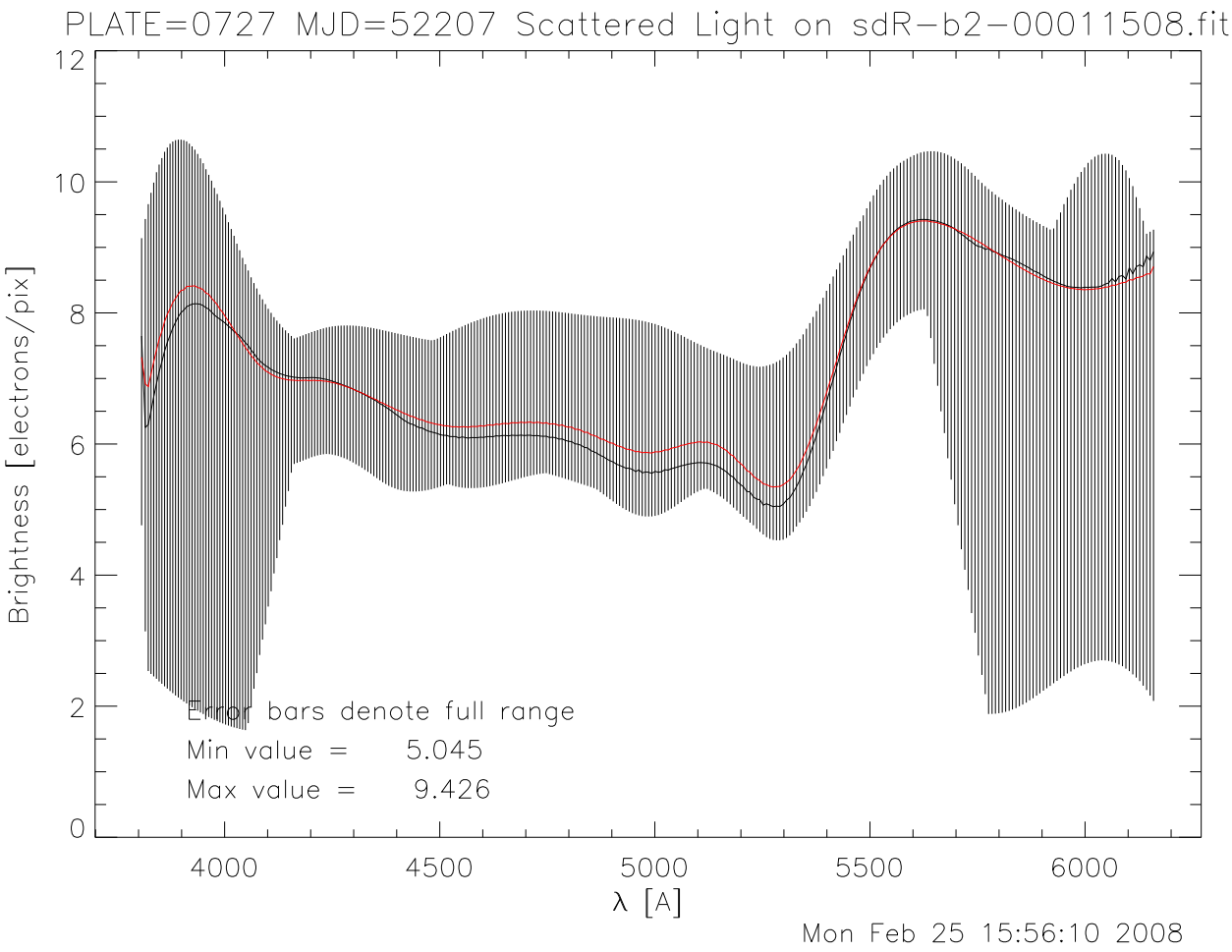

PLATE=0727 MJD=52207 sdR-b2-00011507.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.19 %
Fiber number
Focal Distance [mm]
Airmass

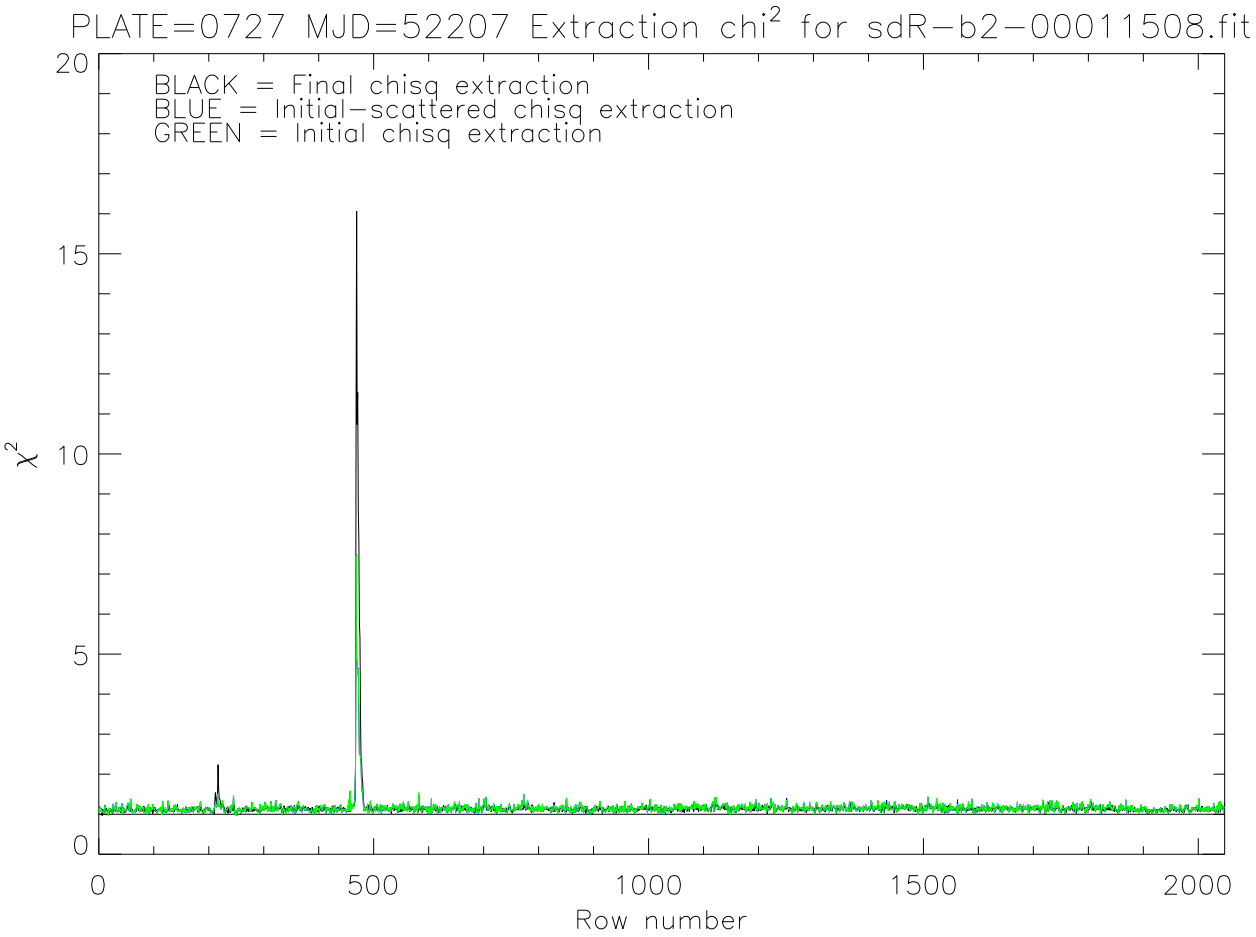

PLATE=0727 MJD=52207 Fiber-Flats for sdR-b2-00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.633
Max value = 1.226
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:52:04 2008

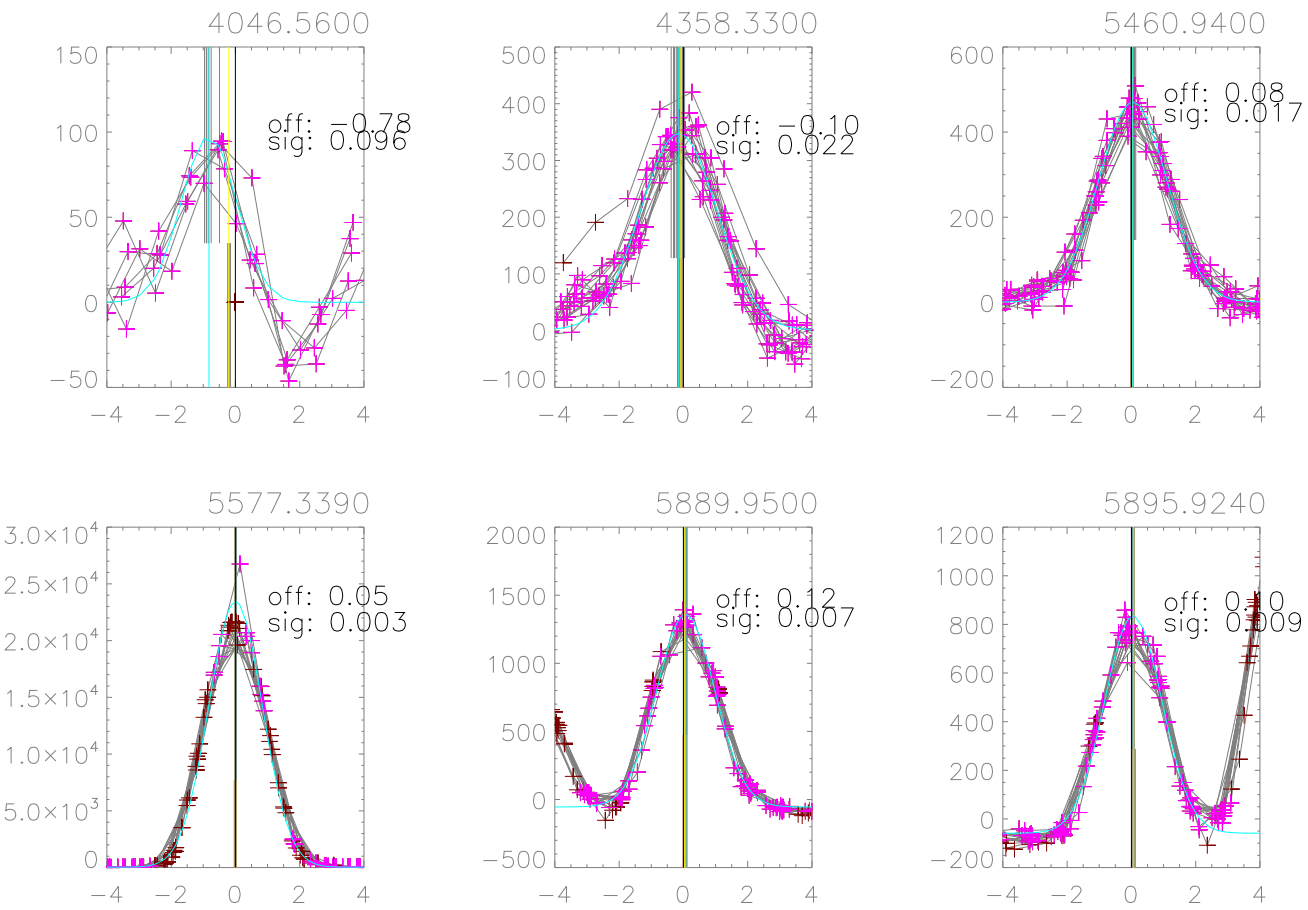

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-b2-00011508.f
Y [pix]
X [pix]
0
500
1000
1500
2000
14.4
12.5
10.7

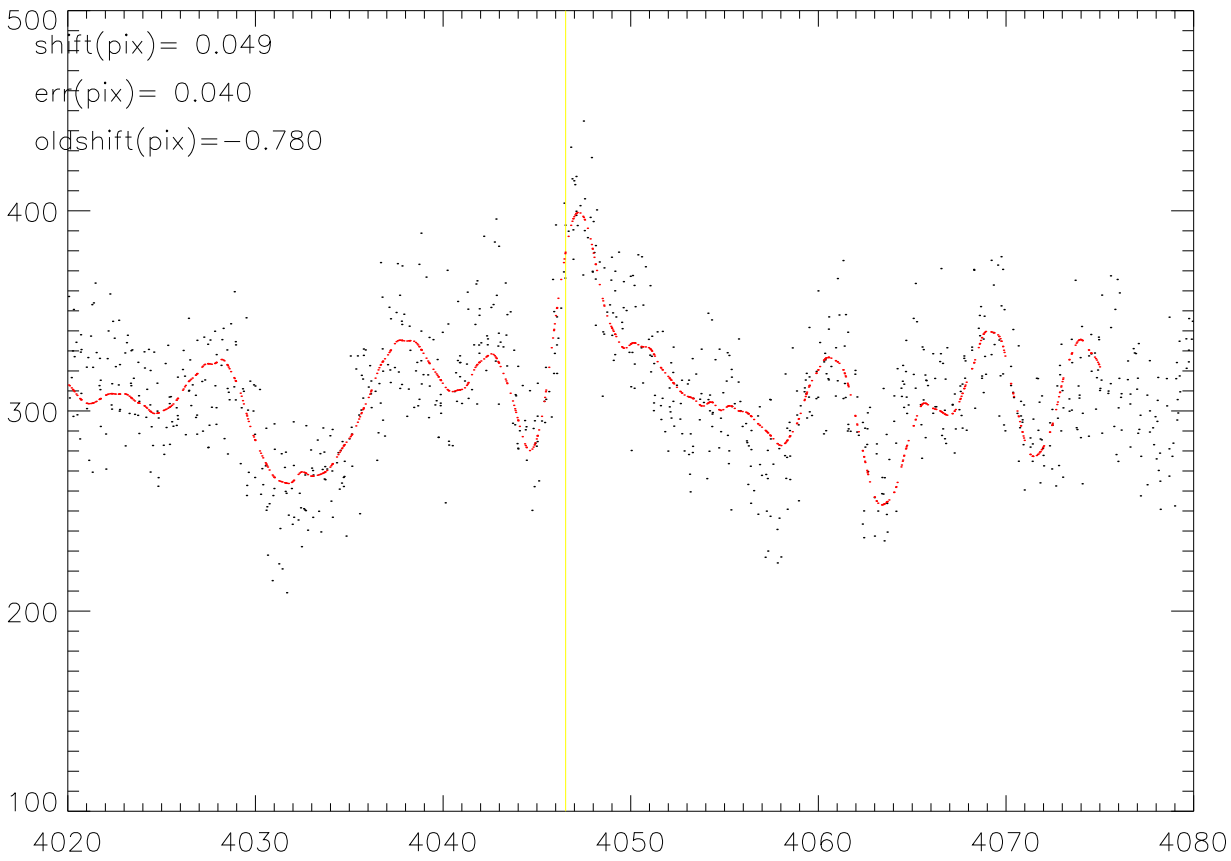

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-b2-00011508.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 10.408
Max value = 15.273
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:52:53 2008

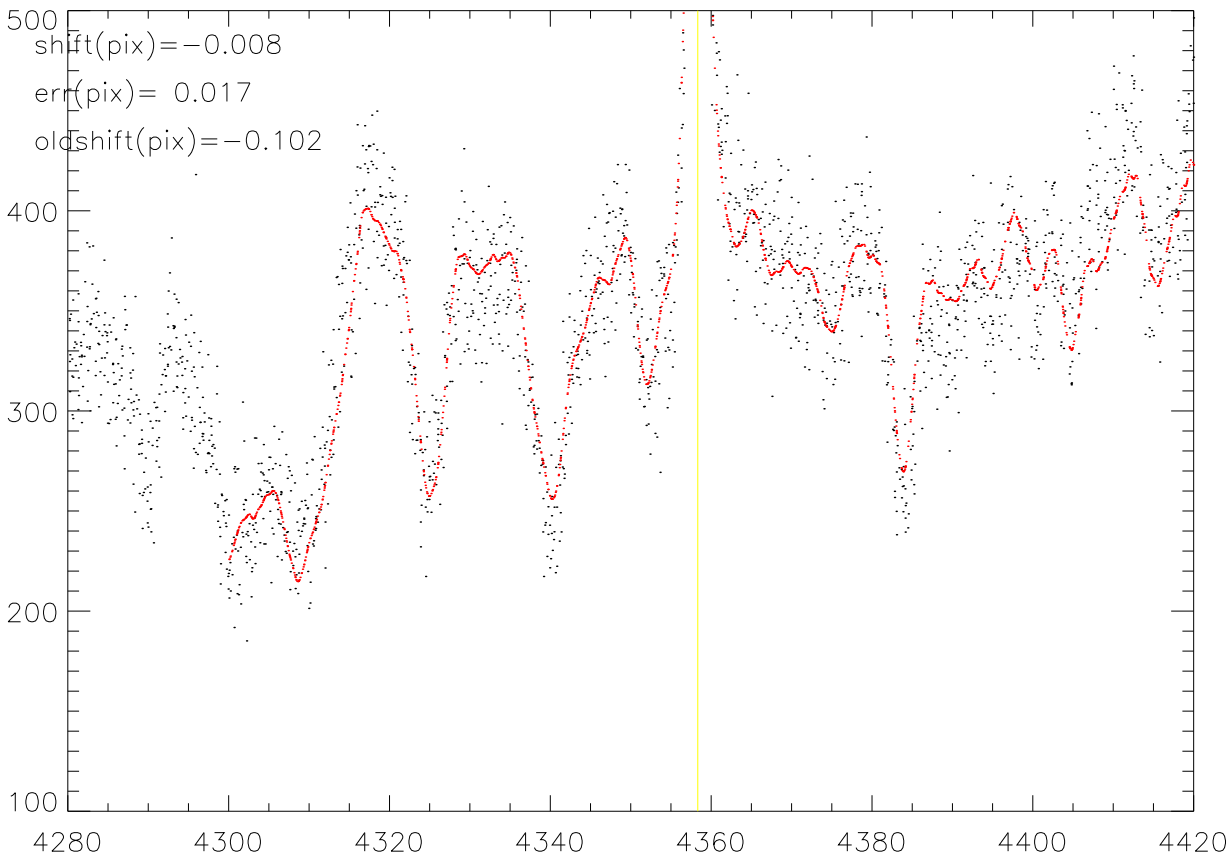

PLATE=0727 MJD=52207 Scattered Light on sdR-b2-00011508.fit
6.5
8.4
6.5
6.5
6.5
8.4
8.4
Y [pix]
X [pix]
0
500
1000
1500
2000

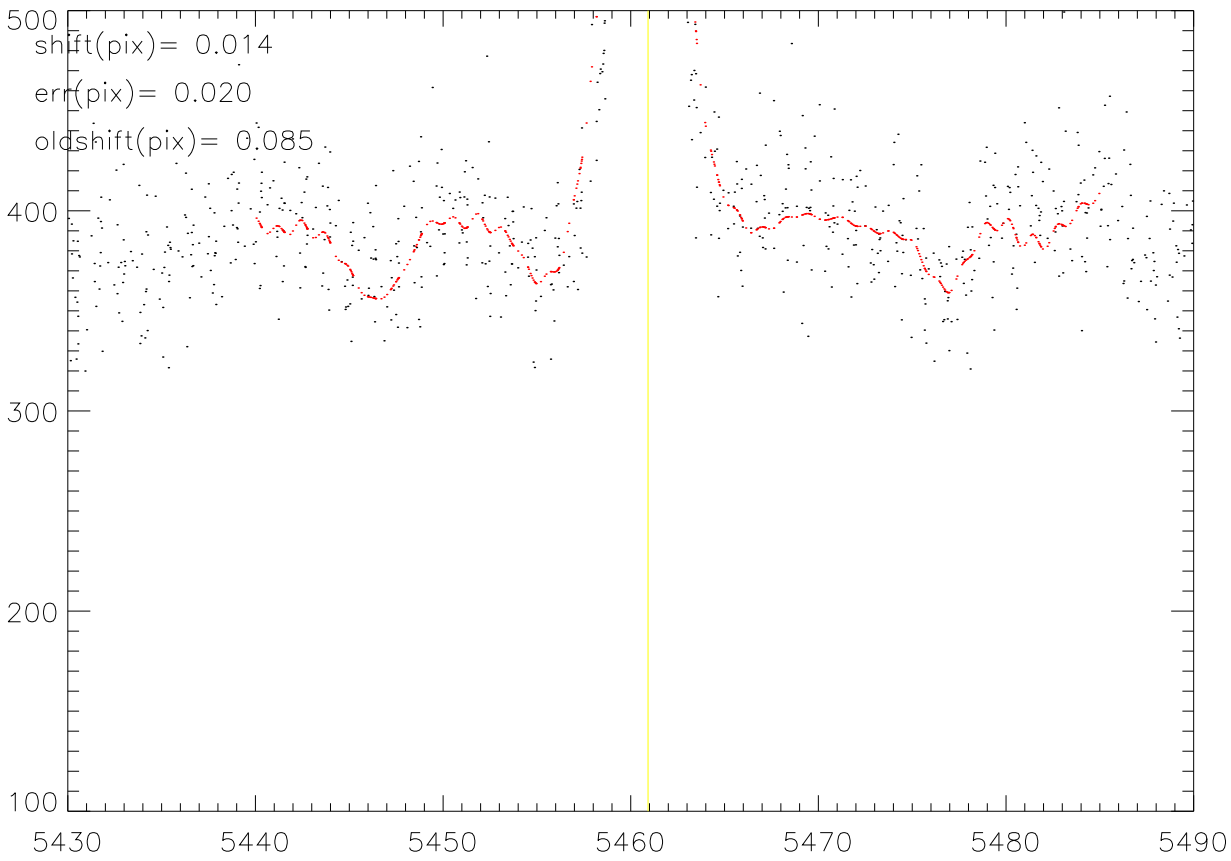

PLATE=0727 MJD=52207 Scattered Light on sdR-b2-00011508.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.045
Max value = 9.426
Mon Feb 25 15:56:10 2008

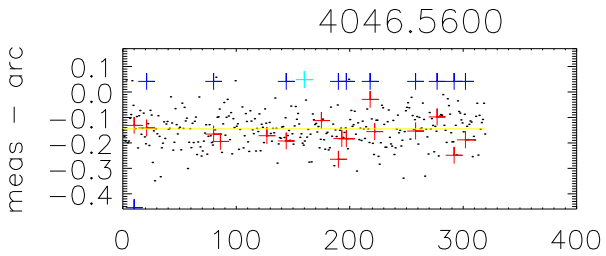

PLATE=0727 MJD=52207 Extraction chi^2 for sdR-b2-00011508.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

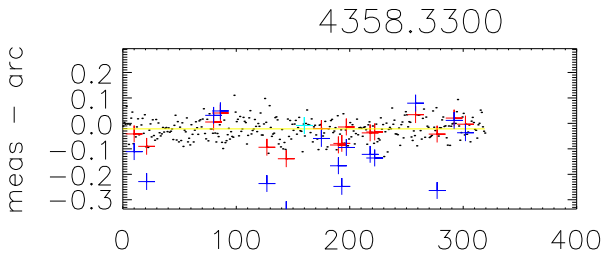

4046.5600
off: −0.78
sig: 0.096
4358.3300
off: −0.10
sig: 0.022
5460.9400
off: 0.08
sig: 0.017
5577.3390
off: 0.05
sig: 0.003
5889.9500
off: 0.12
sig: 0.007
5895.9240
off: 0.10
sig: 0.009

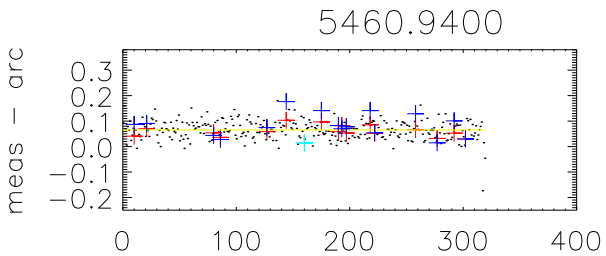

shift(pix)= 0.049
err(pix)= 0.040
oldshift(pix)=−0.780
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

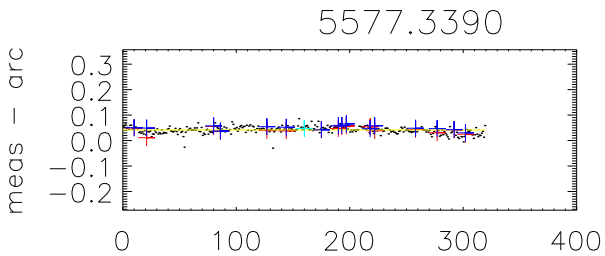

shift(pix)=−0.008
err(pix)= 0.017
oldshift(pix)=−0.102
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

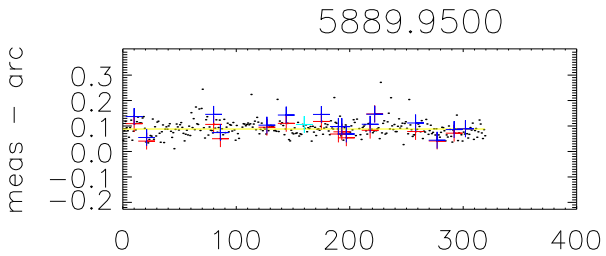

shift(pix)= 0.014
err(pix)= 0.020
oldshift(pix)= 0.085
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

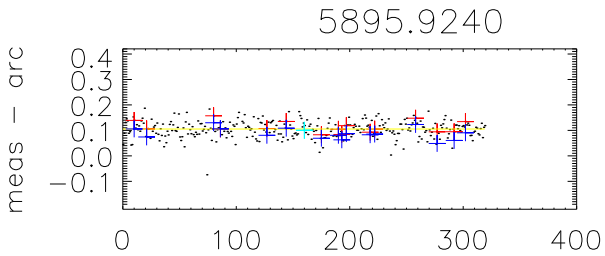

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

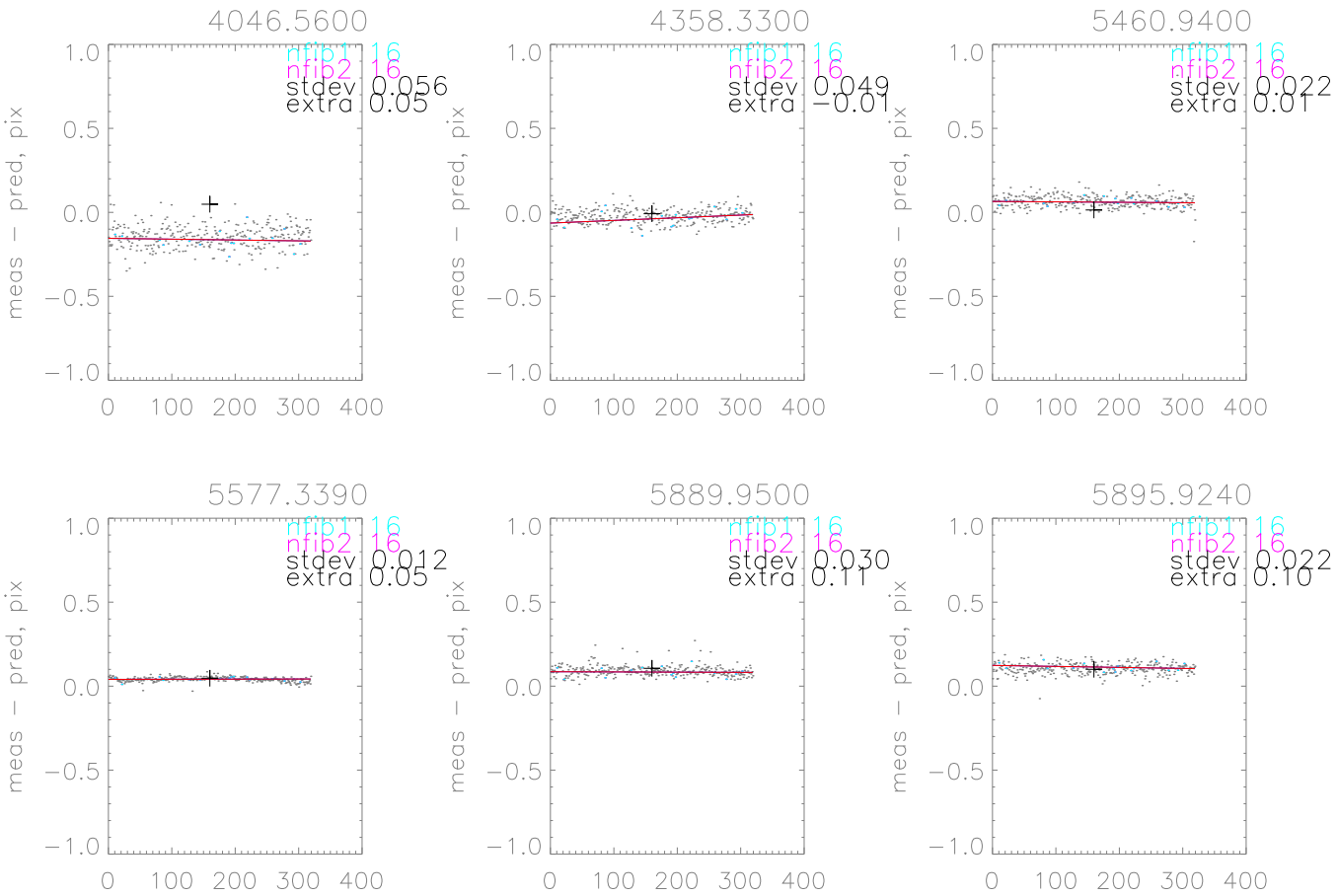

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

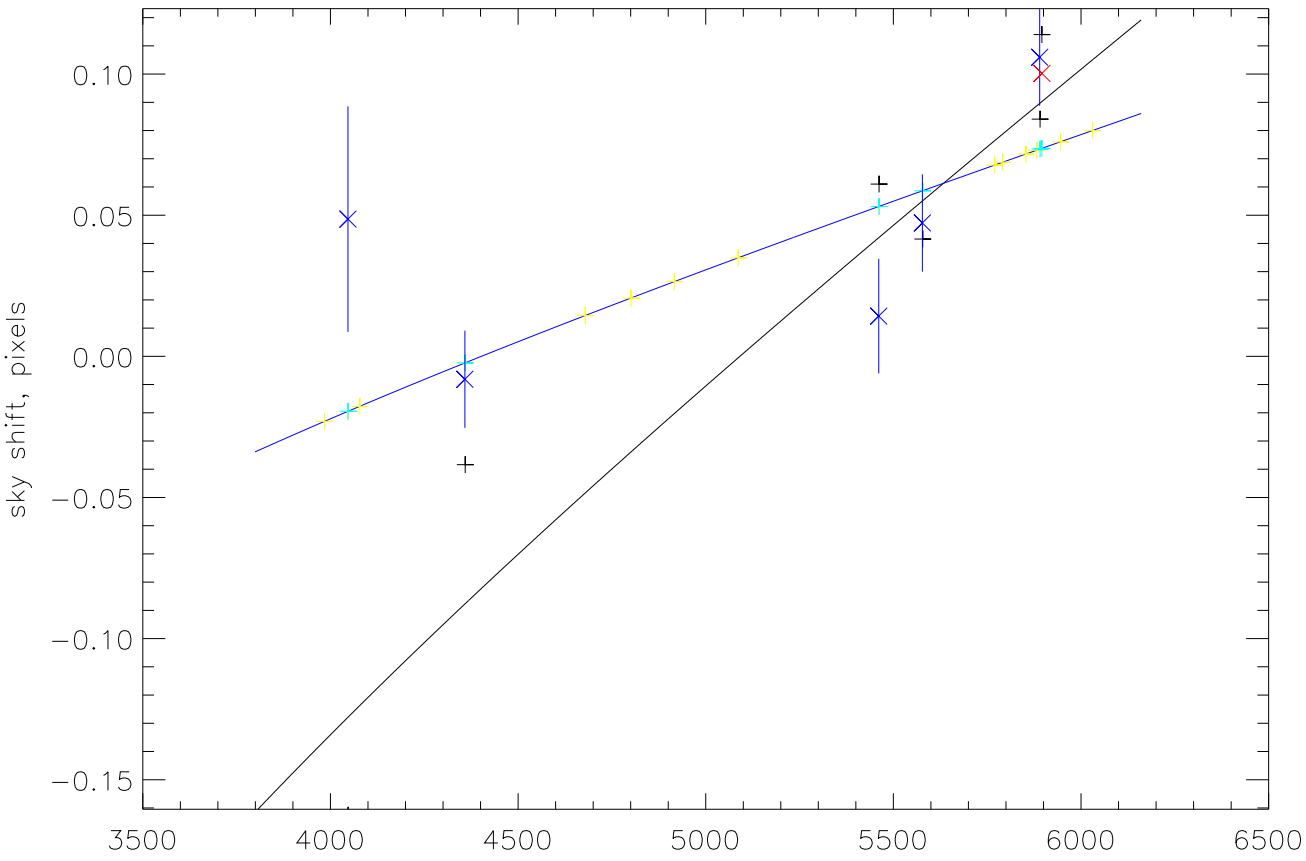

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

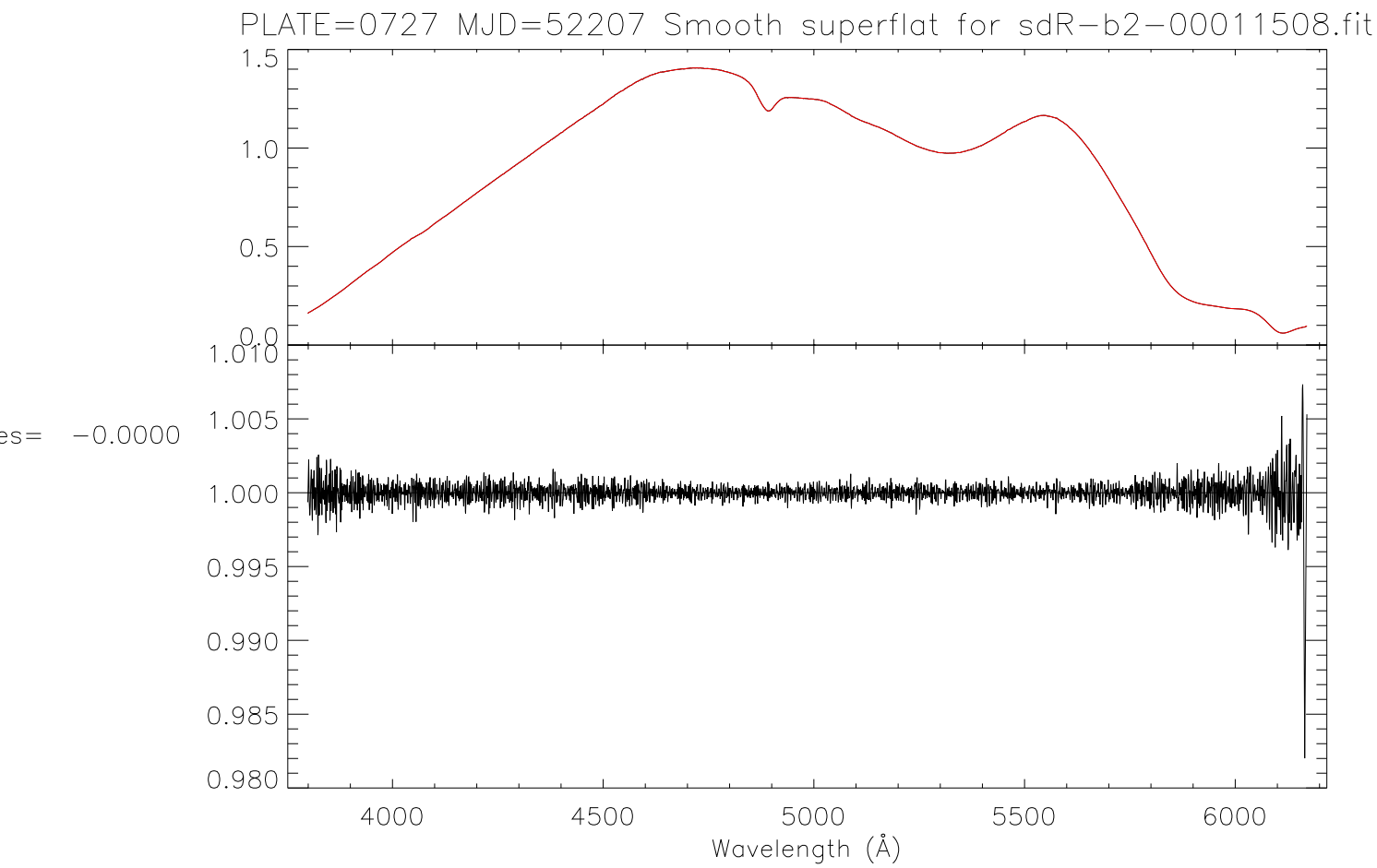

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

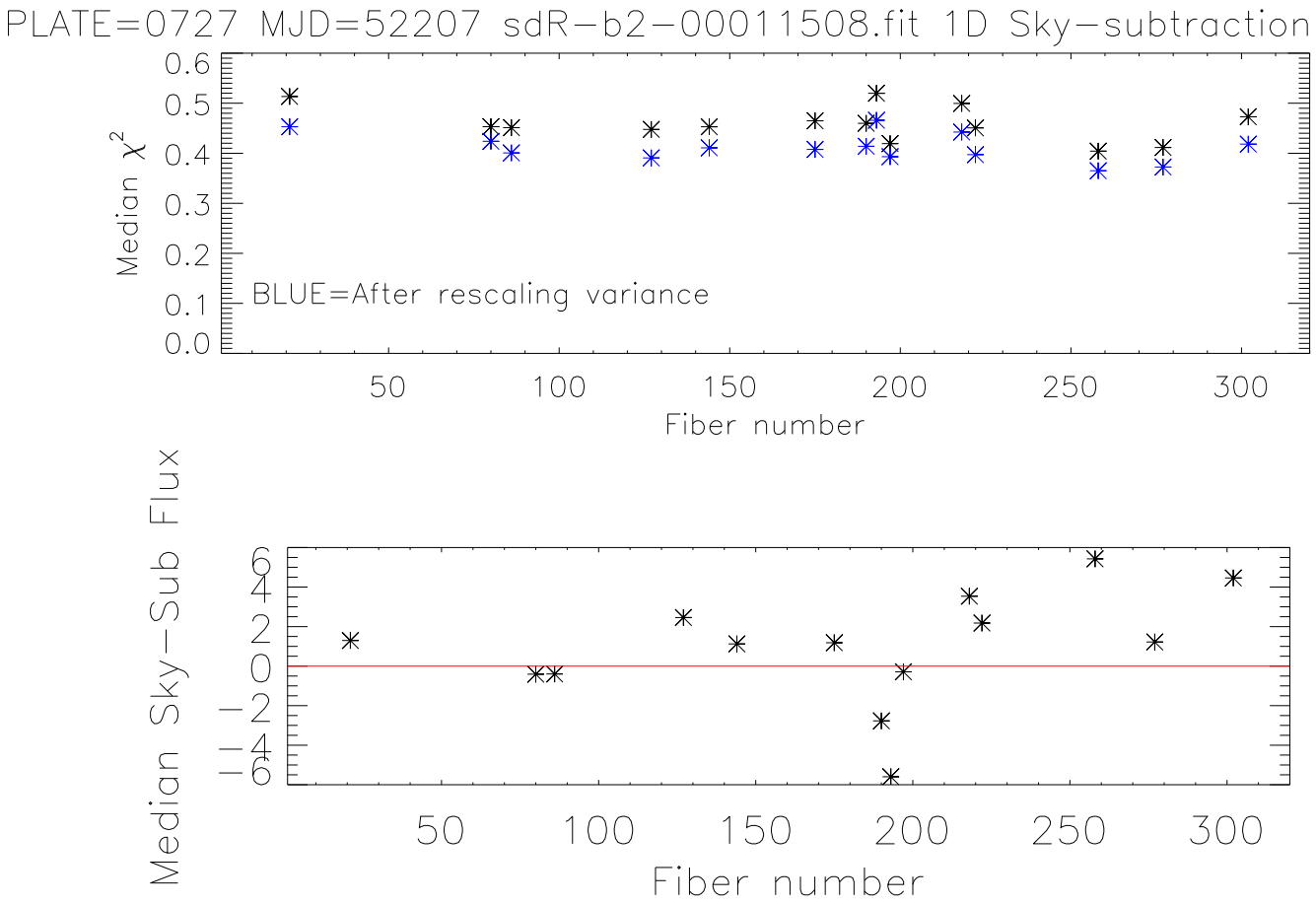

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

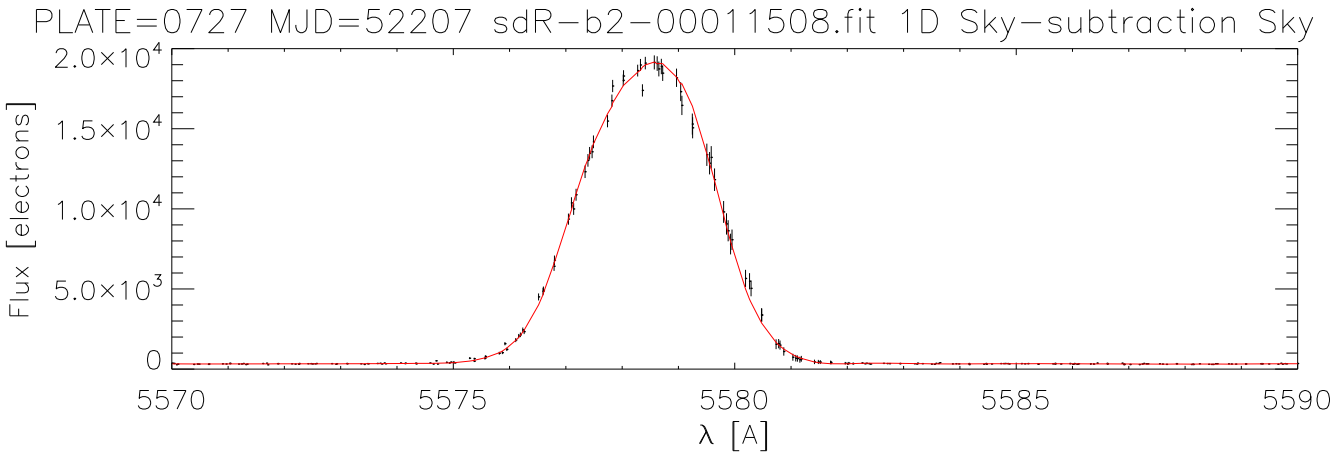

4046.5600
nfib1 16
nfib2 16
stdev 0.056
extra 0.05
4358.3300
nfib1 16
nfib2 16
stdev 0.049
extra −0.01
5460.9400
nfib1 16
nfib2 16
stdev 0.022
extra 0.01
5577.3390
nfib1 16
nfib2 16
stdev 0.012
extra 0.05
5889.9500
nfib1 16
nfib2 16
stdev 0.030
extra 0.11
5895.9240
nfib1 16
nfib2 16
stdev 0.022
extra 0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

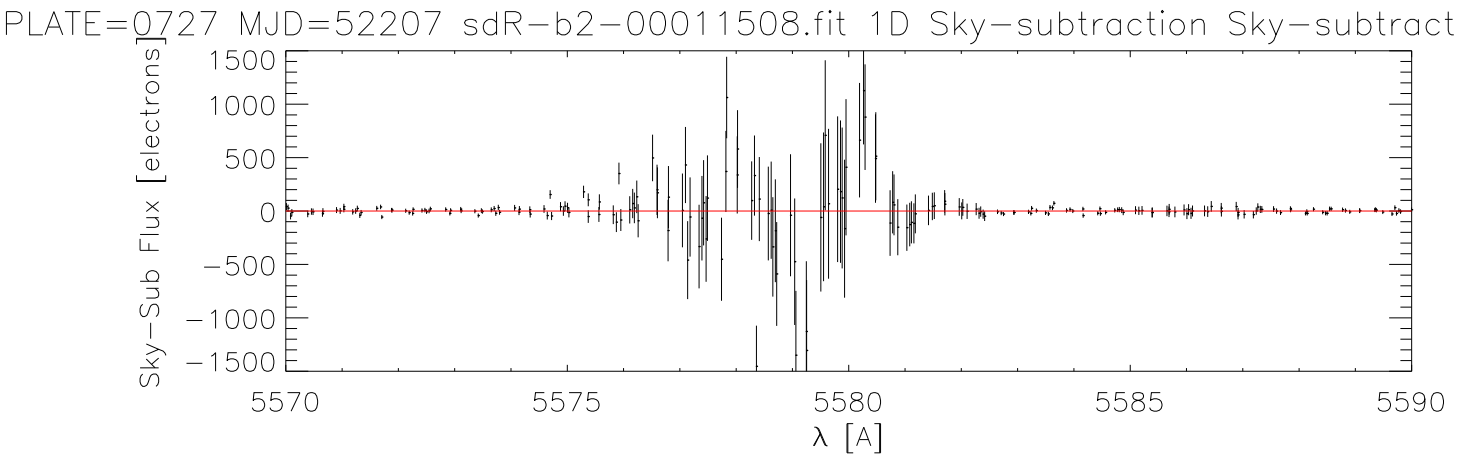

sky shift, pixels
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

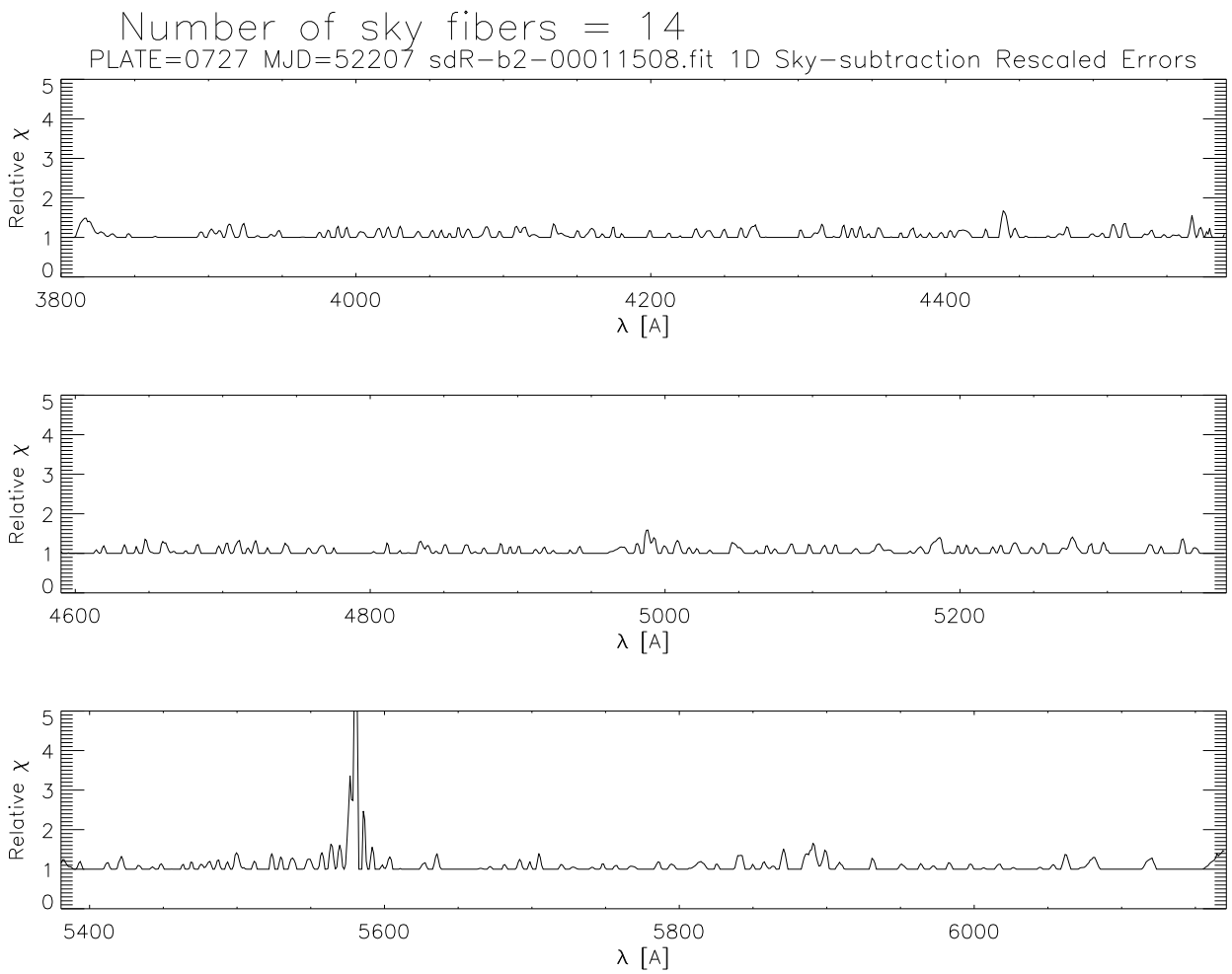

PLATE=0727 MJD=52207 Smooth superflat for sdR-b2-00011508.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
4000
4500
5000
5500
6000
Wavelength (Å)

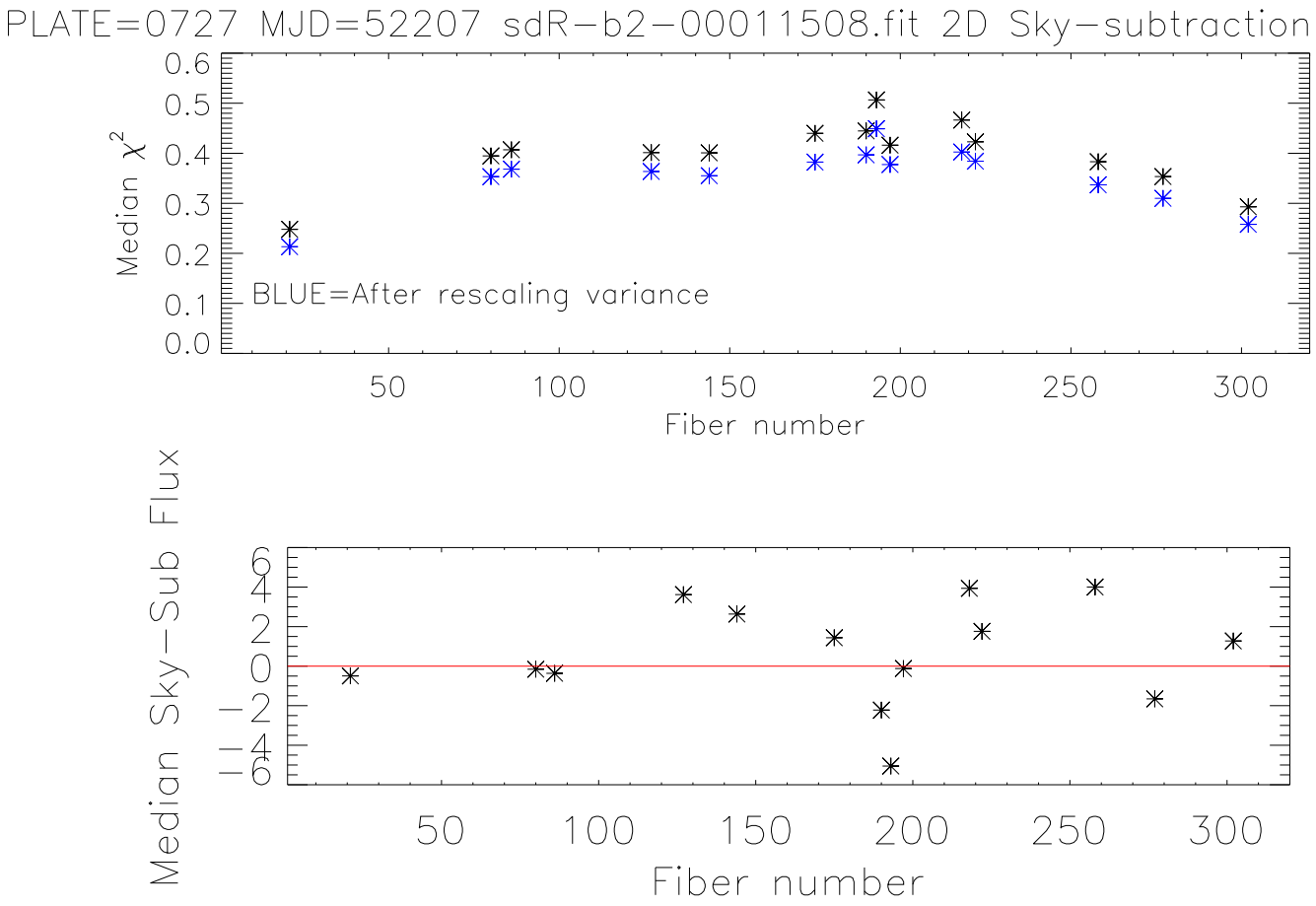
es= −0.0000

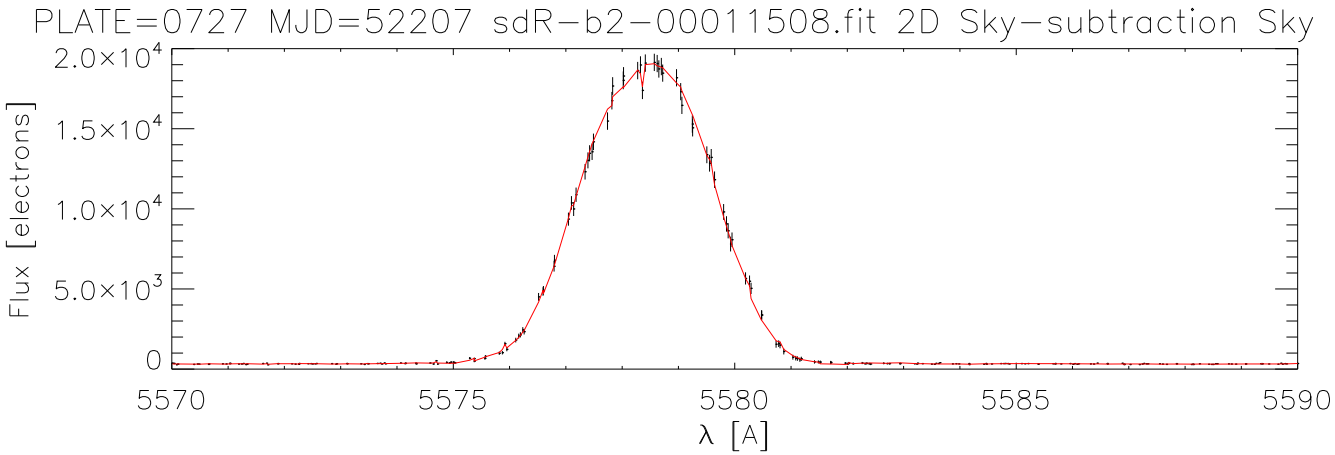

PLATE=0727 MJD=52207 sdR-b2-00011508.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

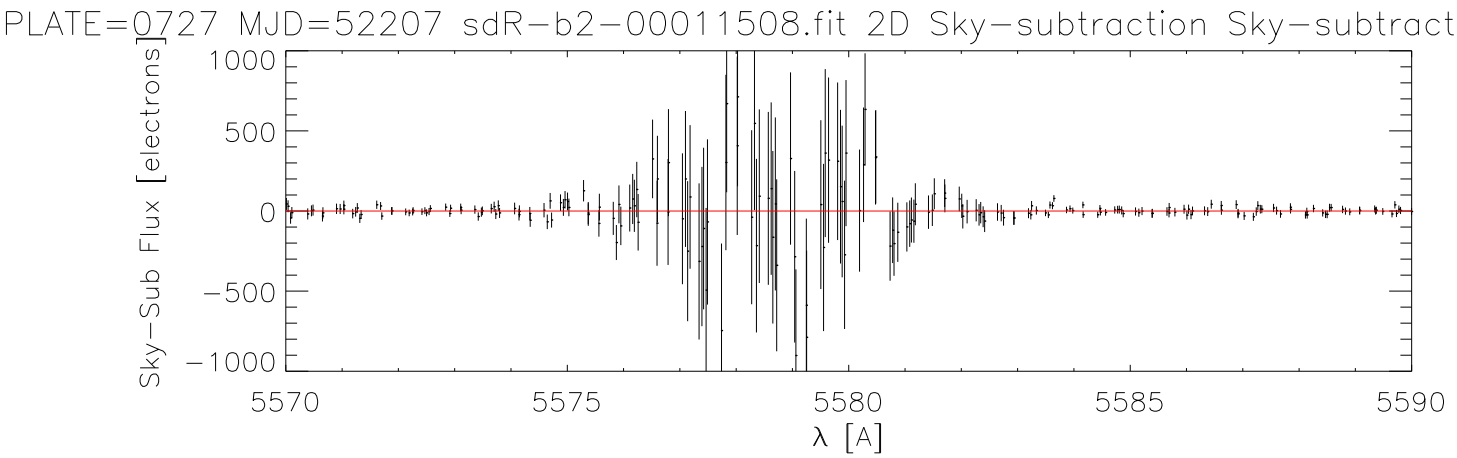

PLATE=0727 MJD=52207 sdR-b2-00011508.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

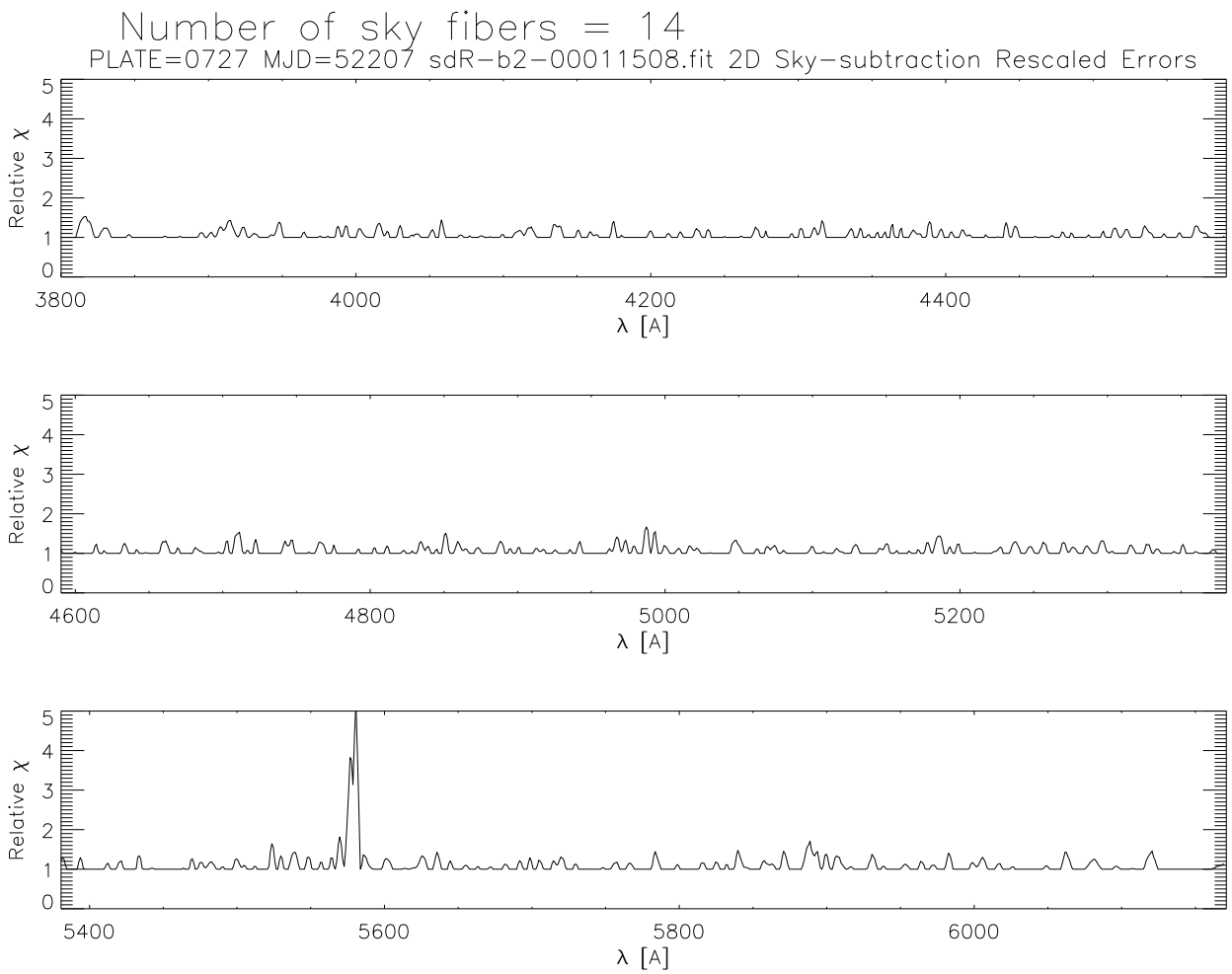

PLATE=0727 MJD=52207 sdR-b2-00011508.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
−1500
5570
5575
5580
5585
5590
λ [A]

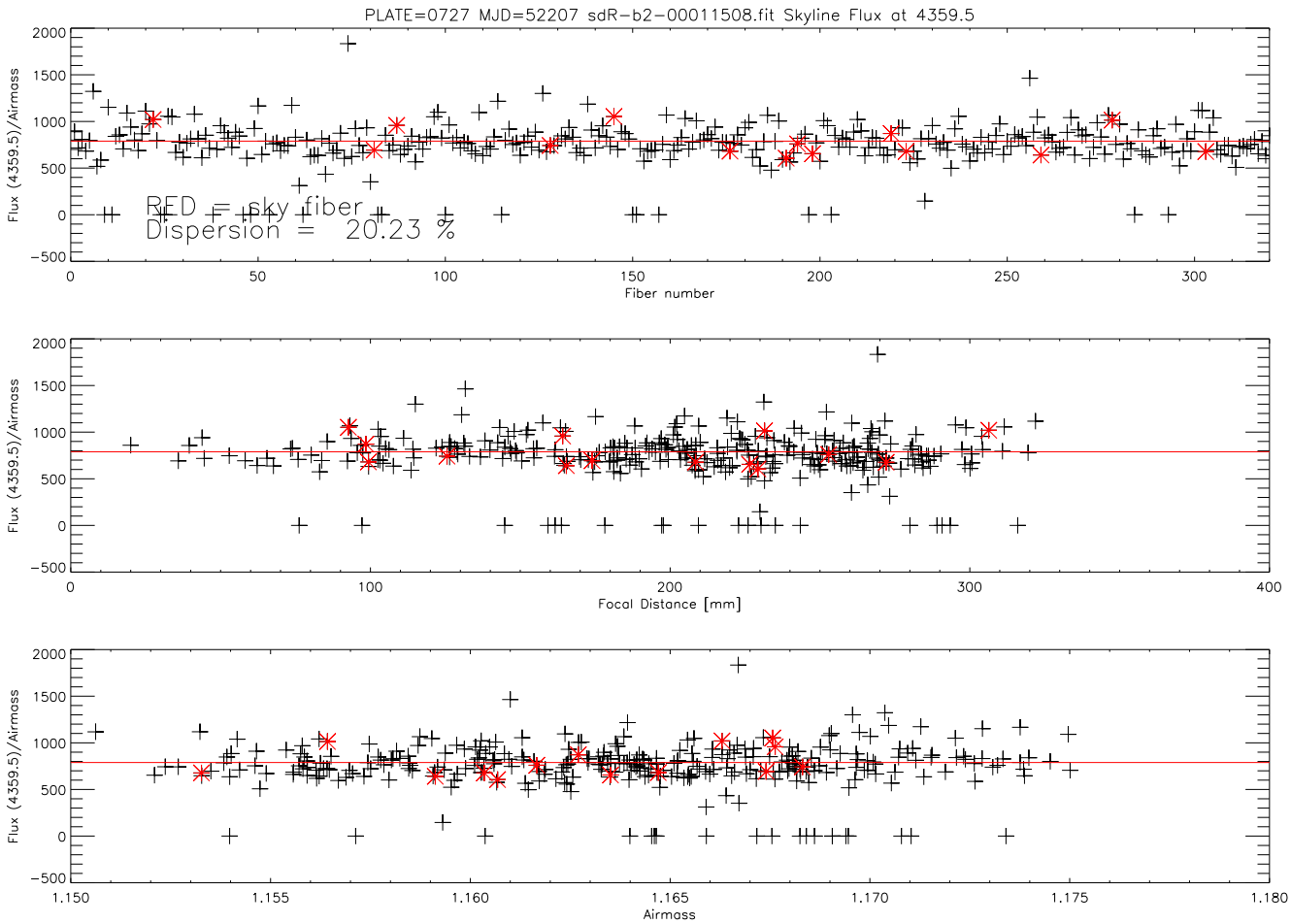

Number of sky fibers = 14
PLATE=0727 MJD=52207 sdR-b2-00011508.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

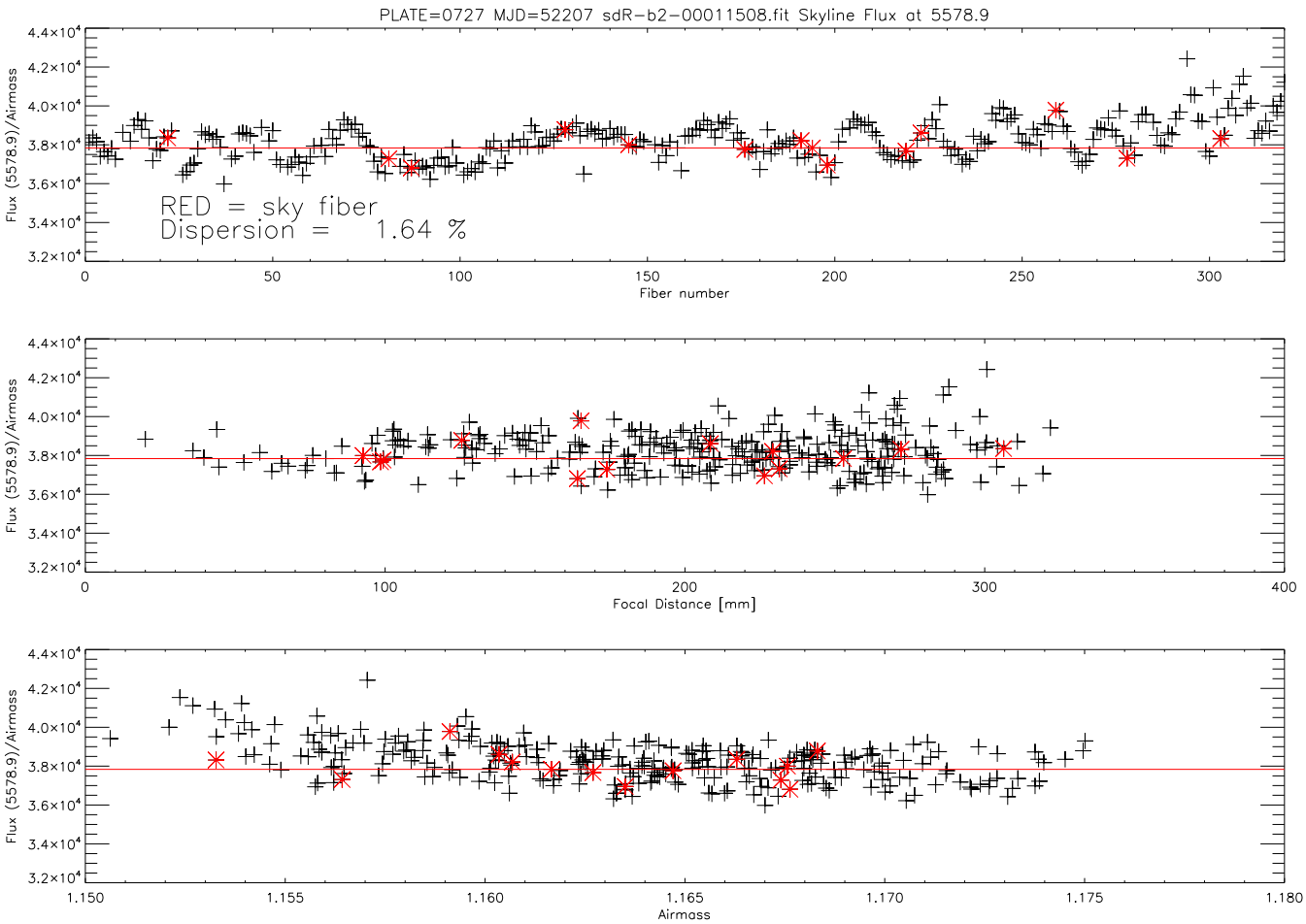

PLATE=0727 MJD=52207 sdR-b2-00011508.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

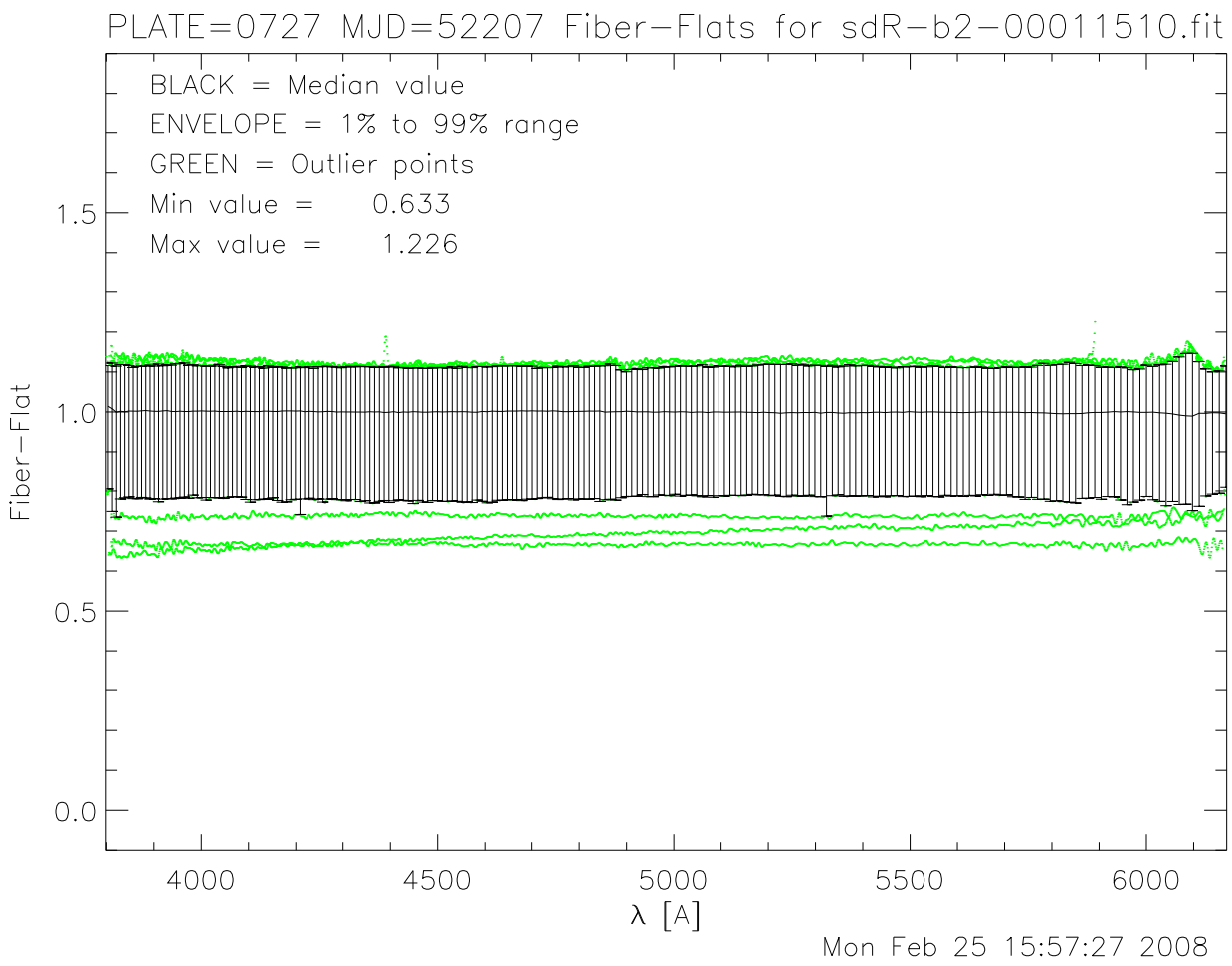

PLATE=0727 MJD=52207 sdR-b2-00011508.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

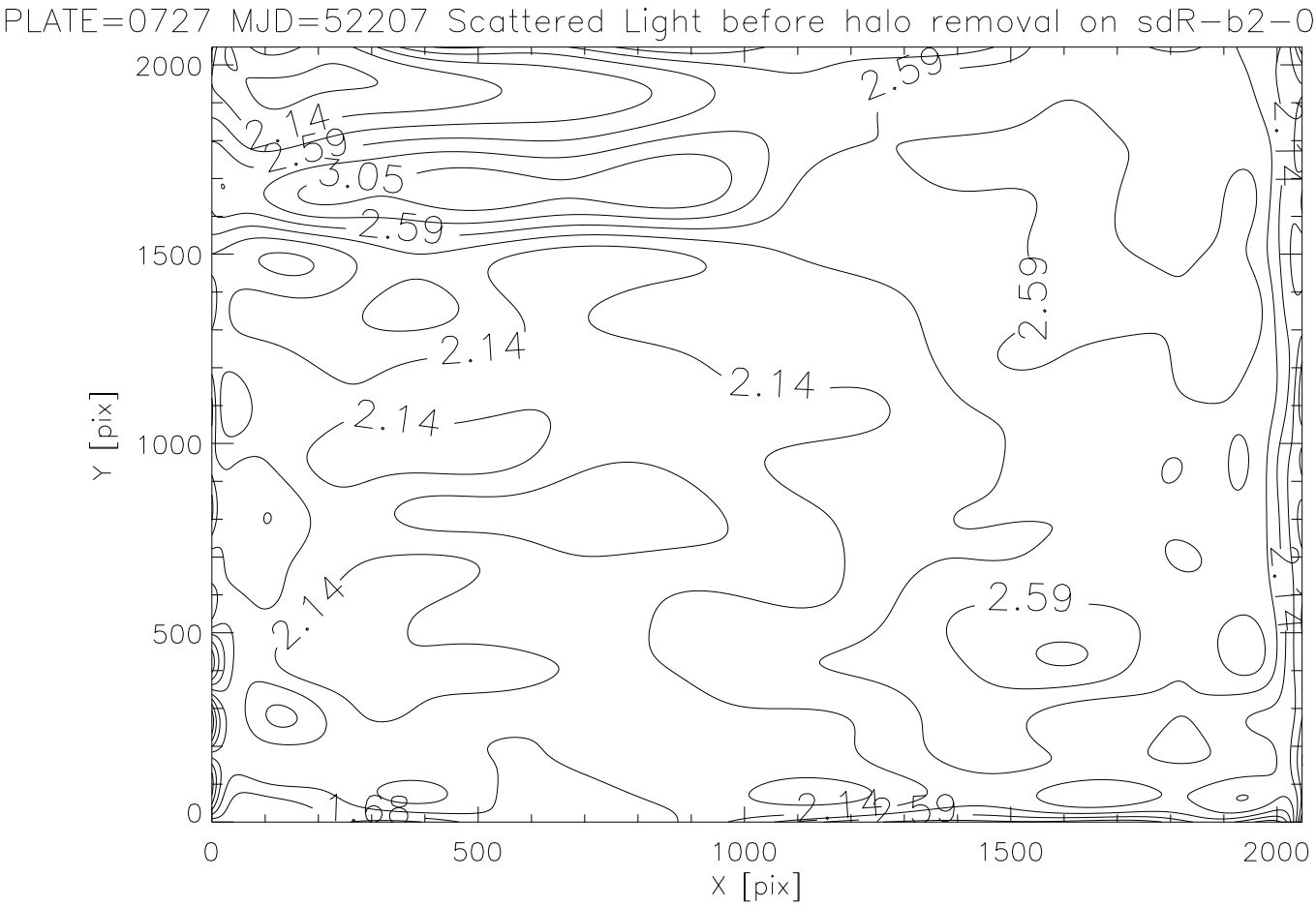

PLATE=0727 MJD=52207 sdR-b2-00011508.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

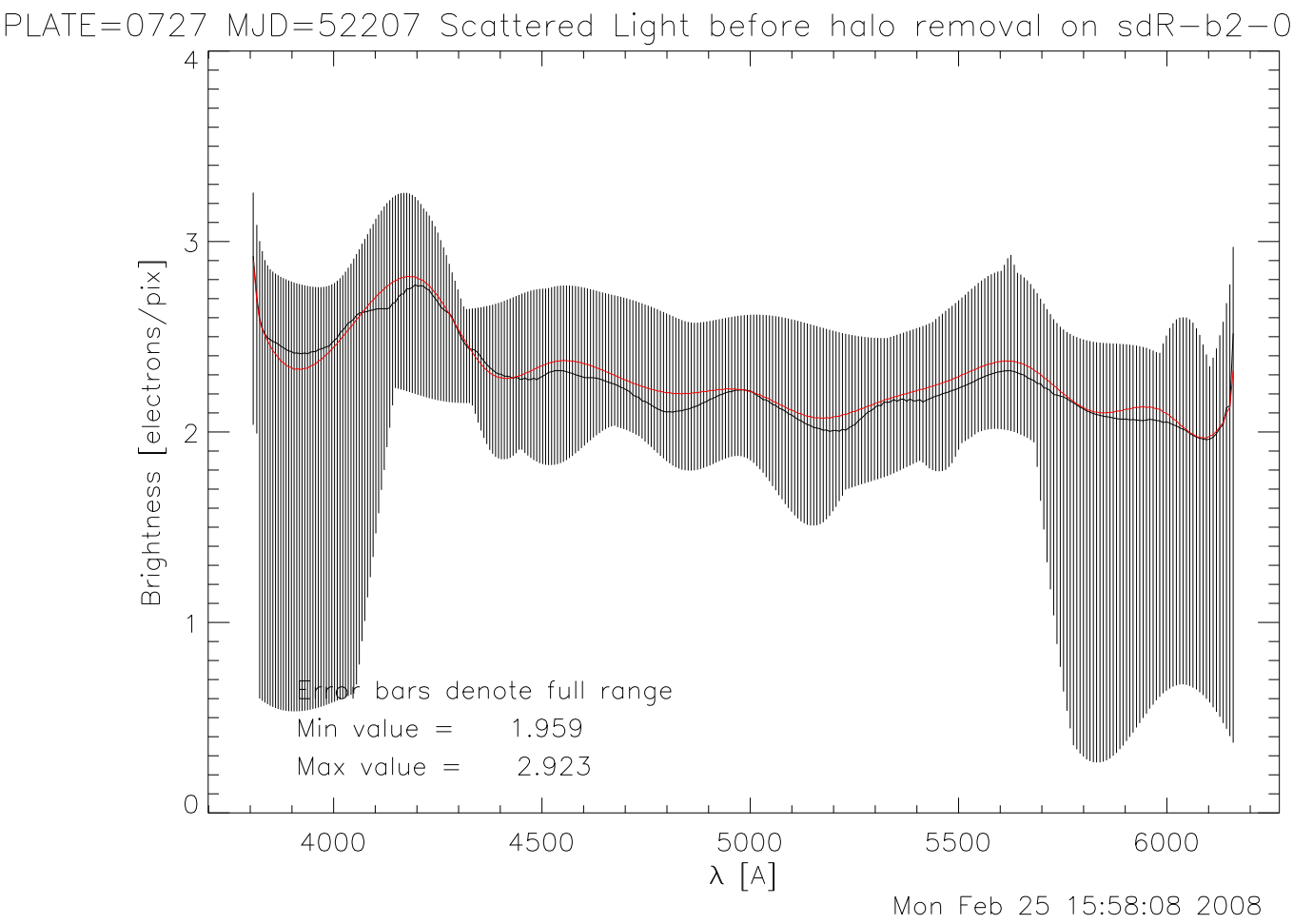

Number of sky fibers = 14
PLATE=0727 MJD=52207 sdR-b2-00011508.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

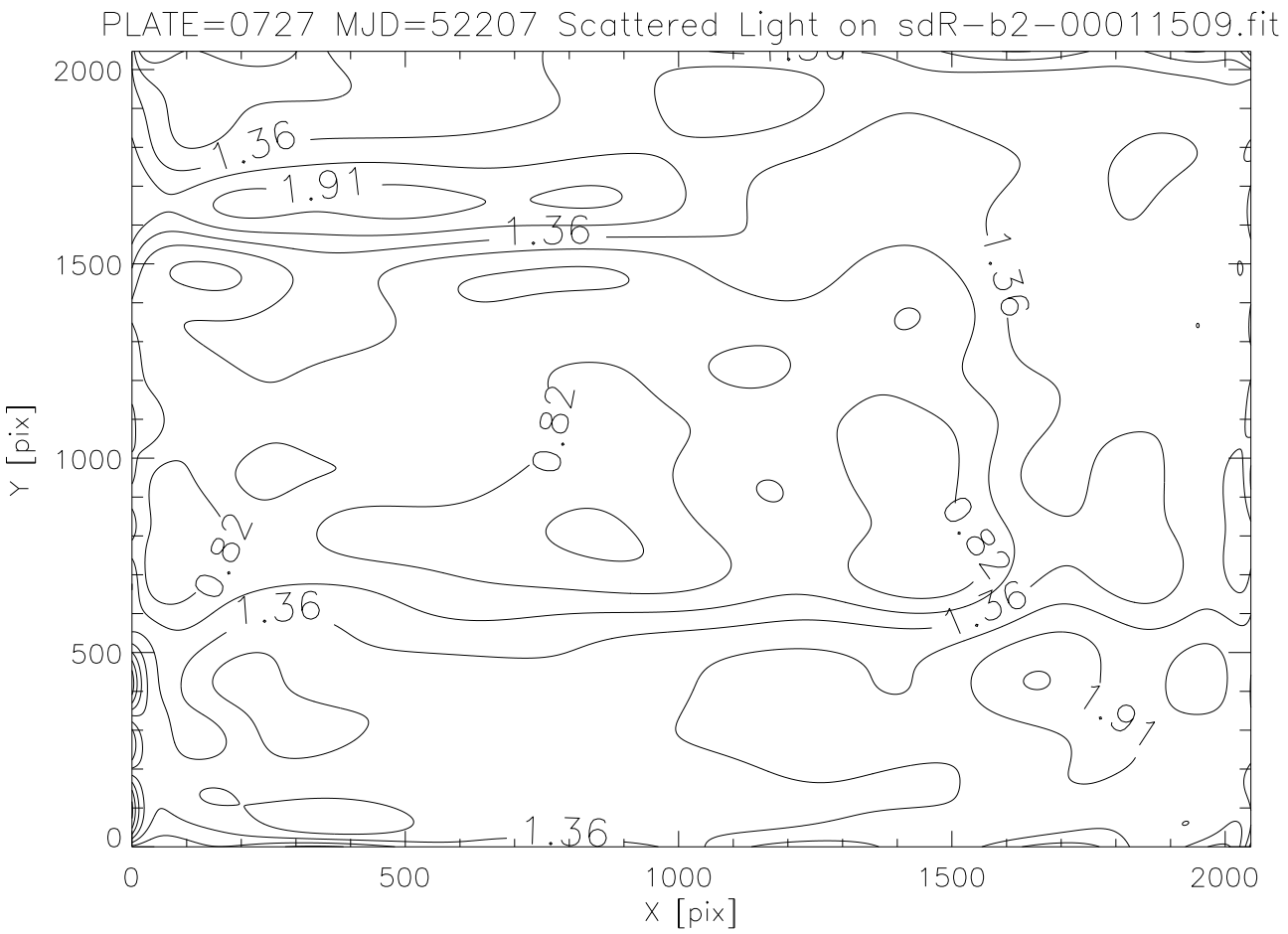

PLATE=0727 MJD=52207 sdR-b2-00011508.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 20.23 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

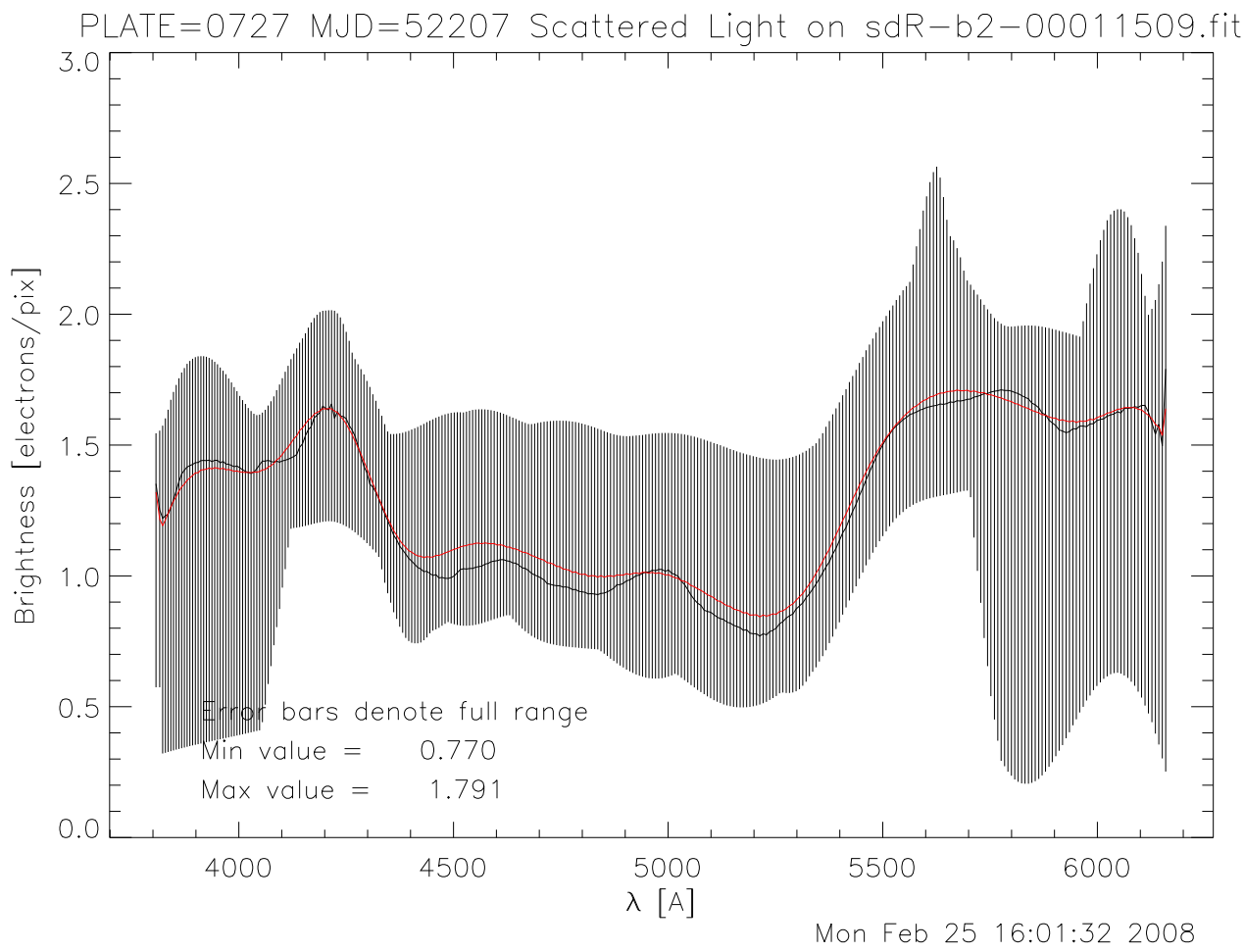

PLATE=0727 MJD=52207 sdR-b2-00011508.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.64 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

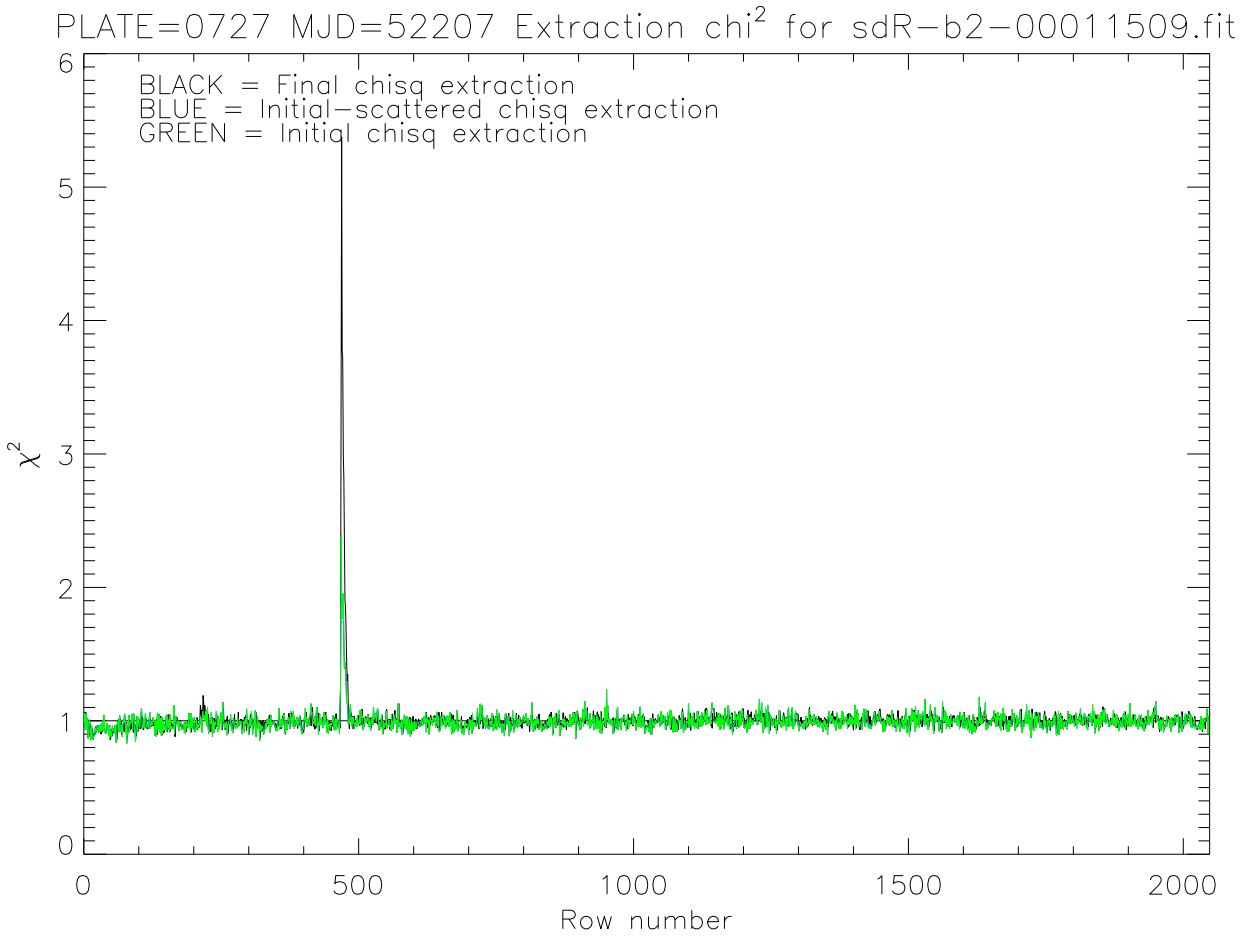

PLATE=0727 MJD=52207 Fiber−Flats for sdR−b2−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.633
Max value = 1.226
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 15:57:27 2008

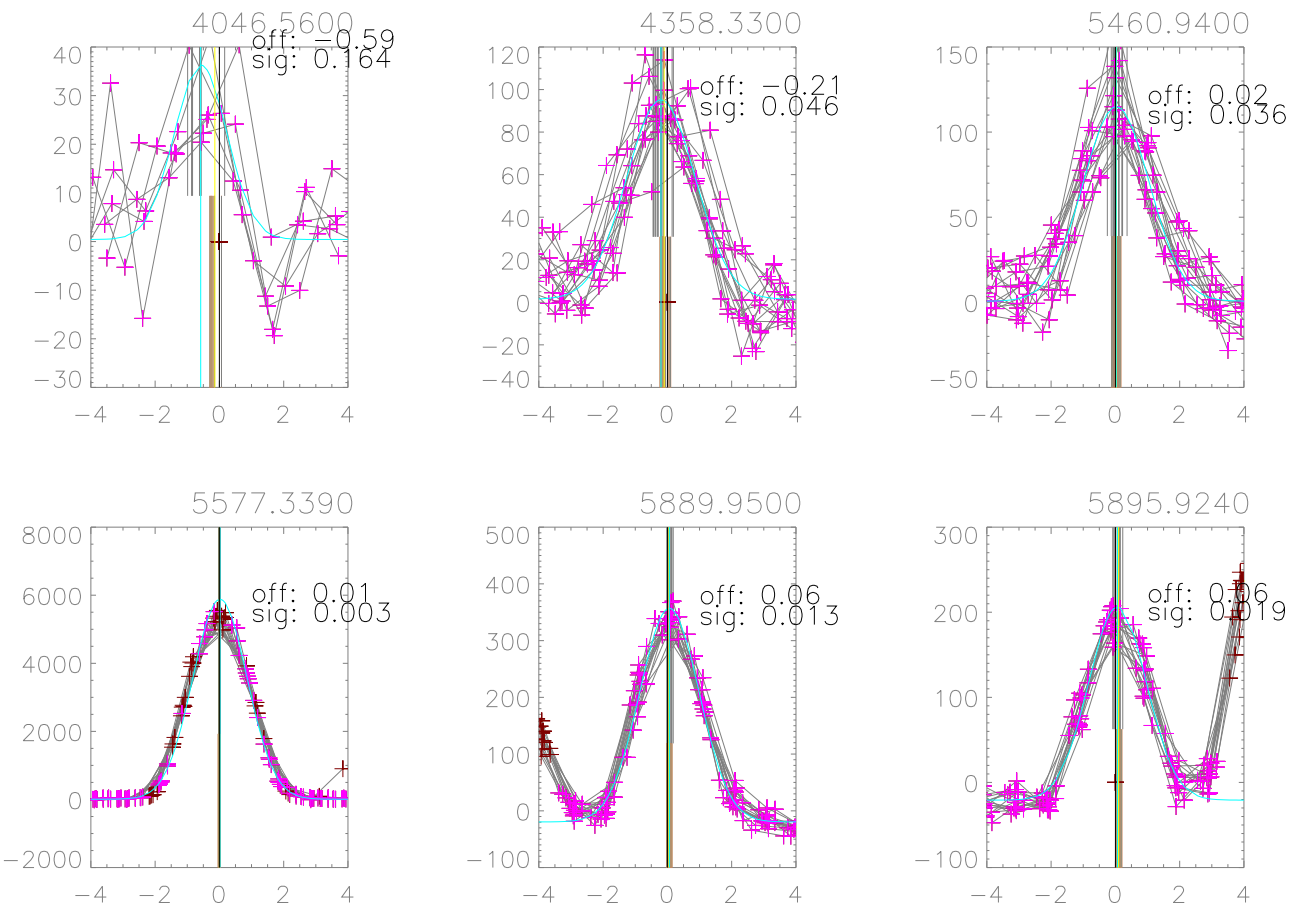

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR−b2−00011509.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
2.59
2.14
2.59
3.05
2.59
2.14
2.14
2.59
2.14
2.14
2.59
1.68
2.14
2.59

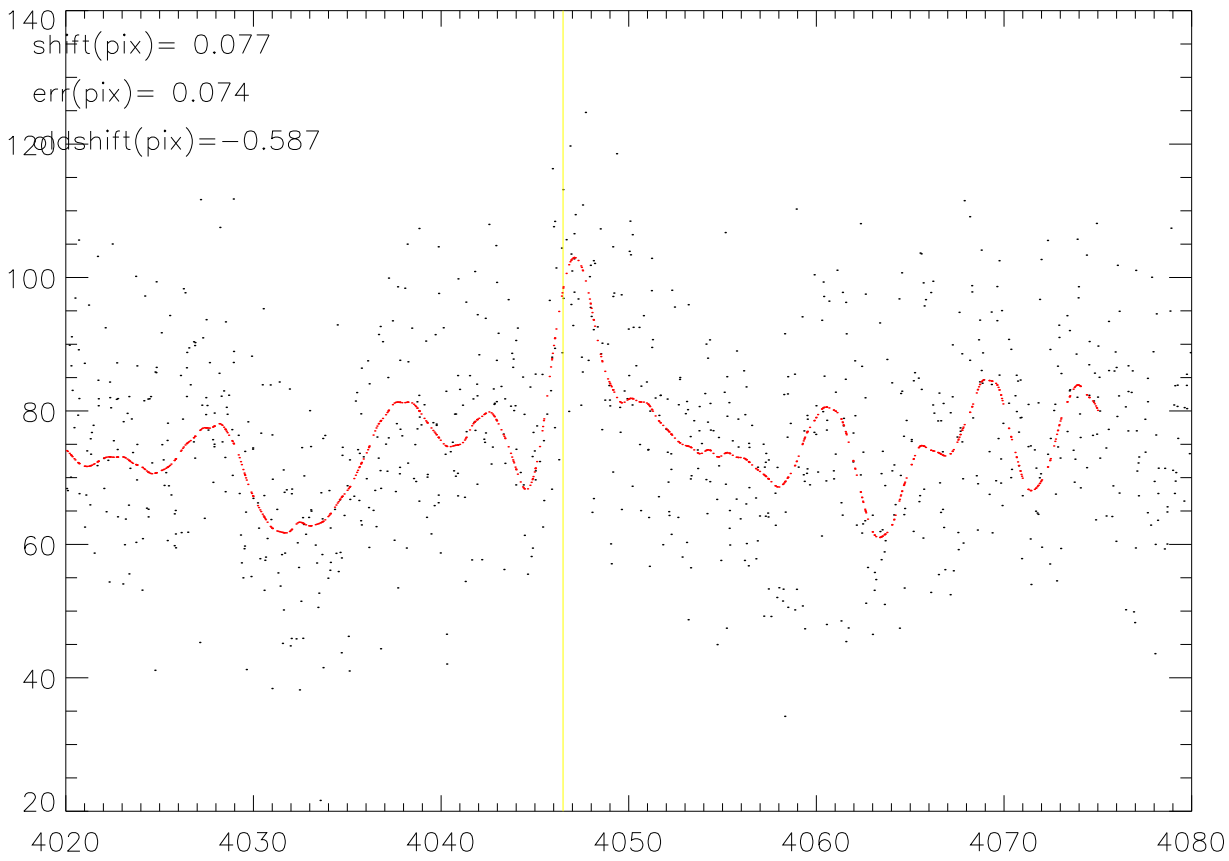

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR−b2−00011509.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.959
Max value = 2.923
Mon Feb 25 15:58:08 2008

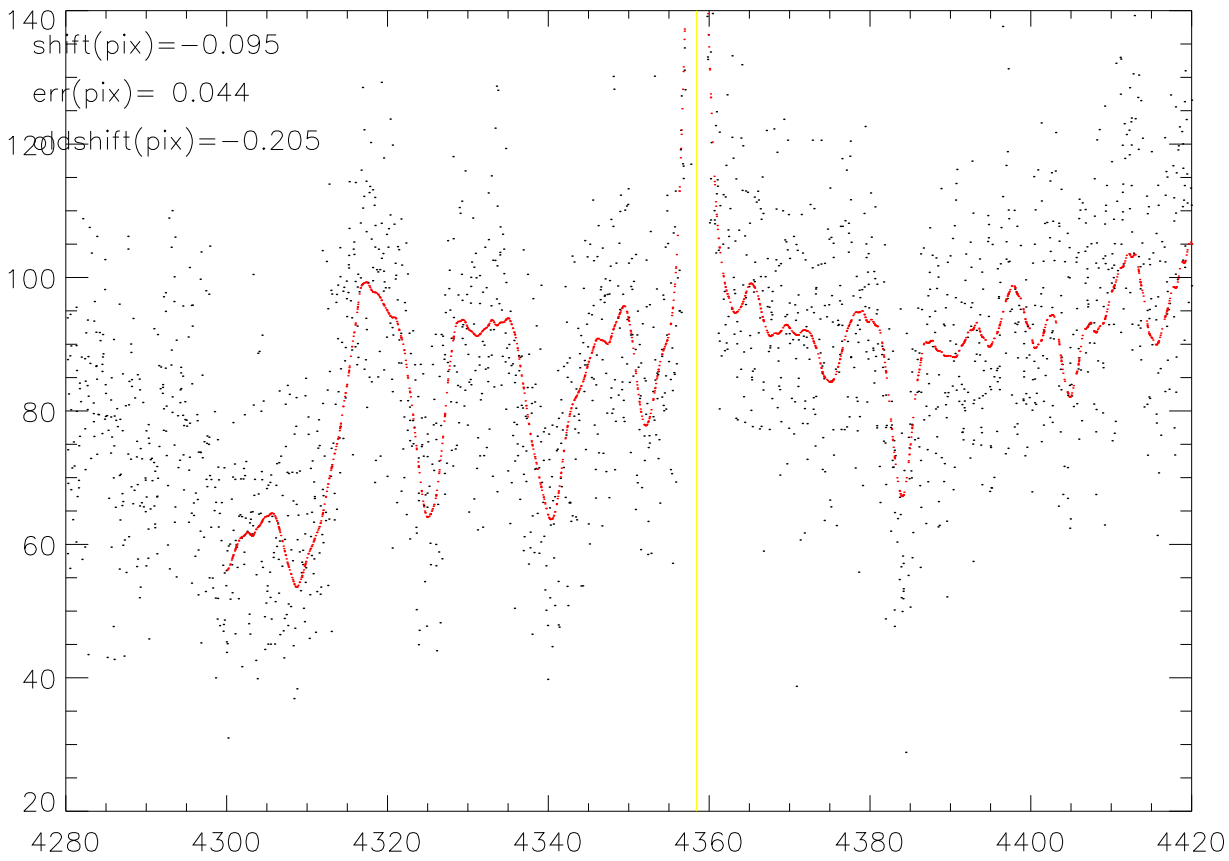

PLATE=0727 MJD=52207 Scattered Light on sdR-b2-00011509.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.36
1.91
1.36
1.36
0.82
0.82
0.82
1.36
1.36
1.91
1.36

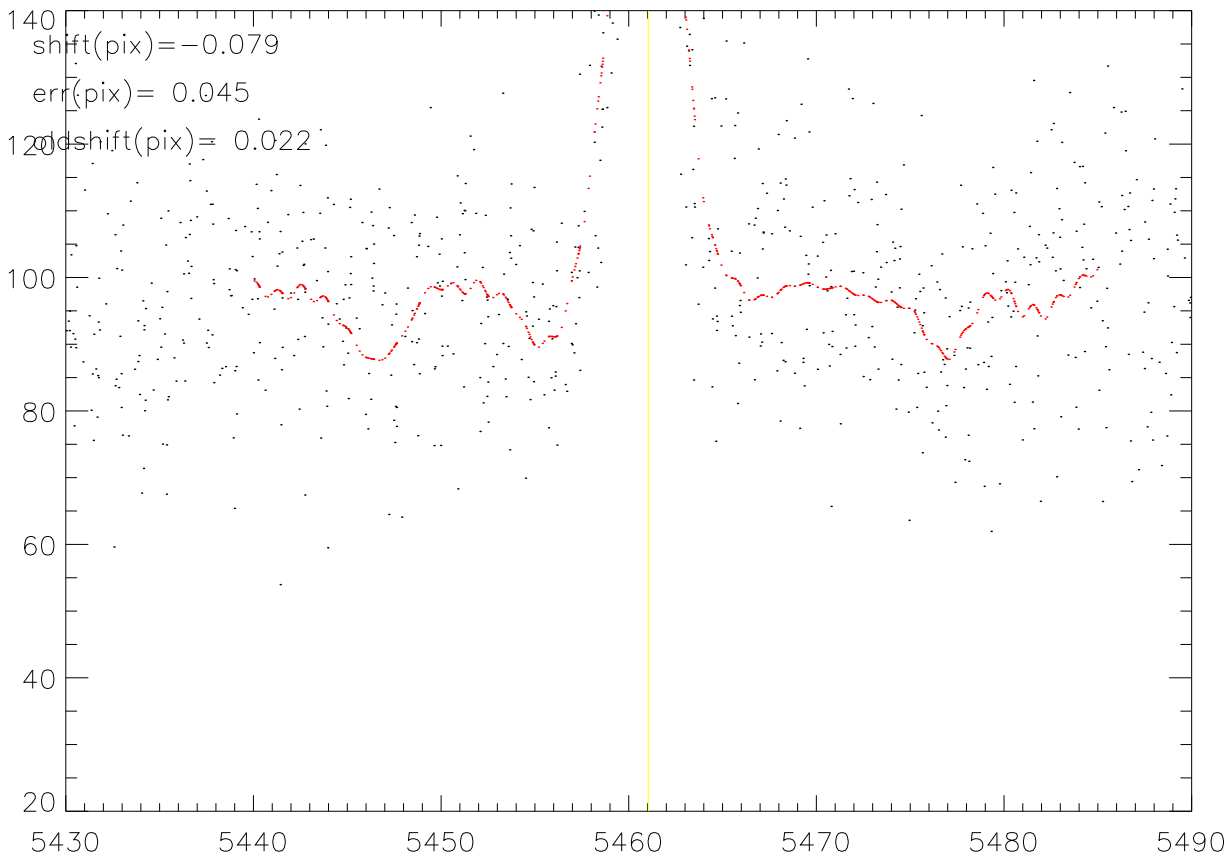

PLATE=0727 MJD=52207 Scattered Light on sdR-b2-00011509.fit
Brightness [electrons/pix]
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.770
Max value = 1.791
4000
4500
5000
5500
6000
λ [A]
Mon Feb 25 16:01:32 2008

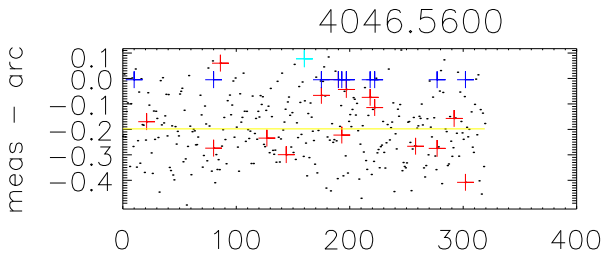

PLATE=0727 MJD=52207 Extraction chi^2 for sdR-b2-00011509.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

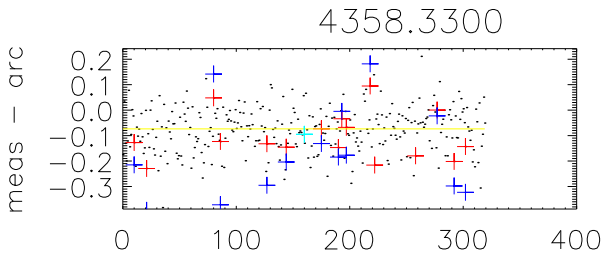

4046.5600
off: −0.59
sig: 0.164
4358.3300
off: −0.21
sig: 0.046
5460.9400
off: 0.02
sig: 0.036
5577.3390
off: 0.01
sig: 0.003
5889.9500
off: 0.06
sig: 0.013
5895.9240
off: 0.06
sig: 0.019

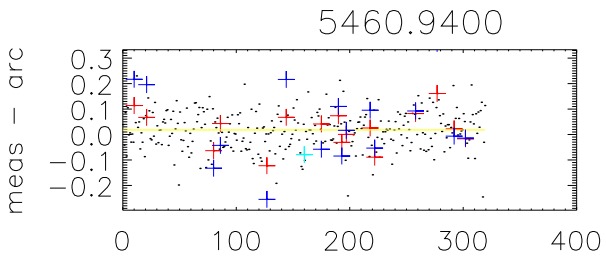

shift(pix)= 0.077
err(pix)= 0.074
oldshift(pix)=−0.587
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

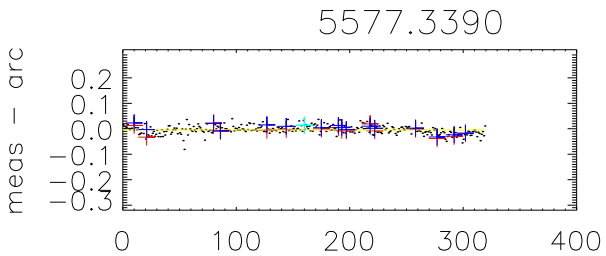

shift(pix)=−0.095
err(pix)= 0.044
oldshift(pix)=−0.205
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

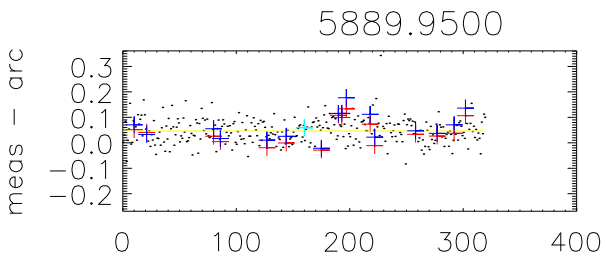

shift(pix)=−0.079
err(pix)= 0.045
oldshift(pix)= 0.022
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

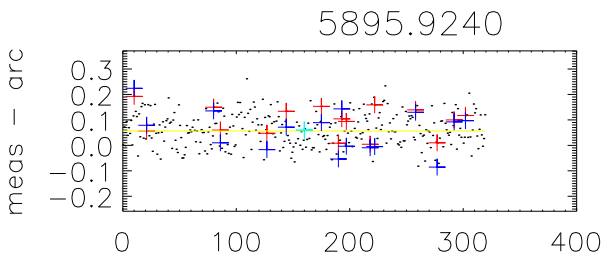

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

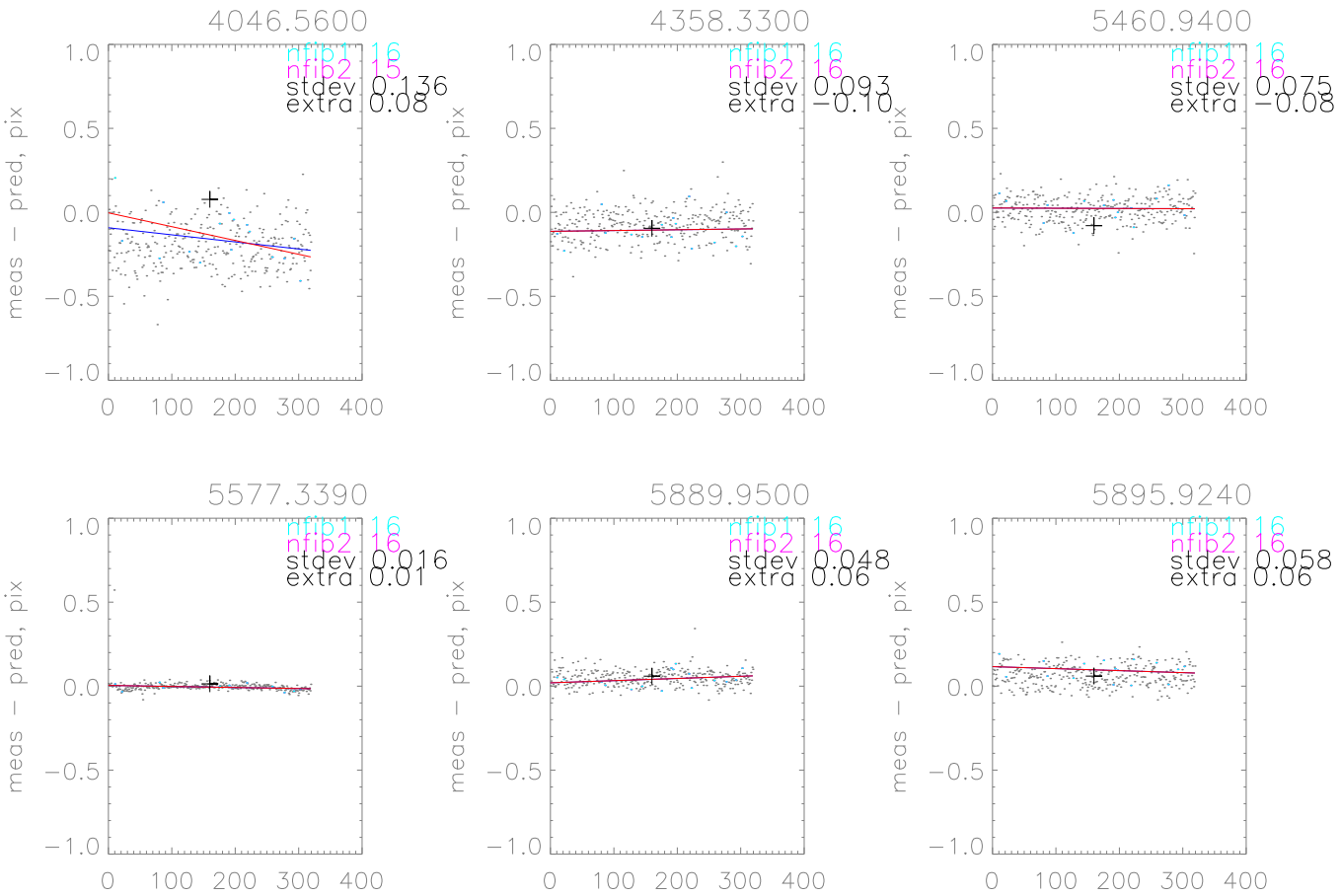

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

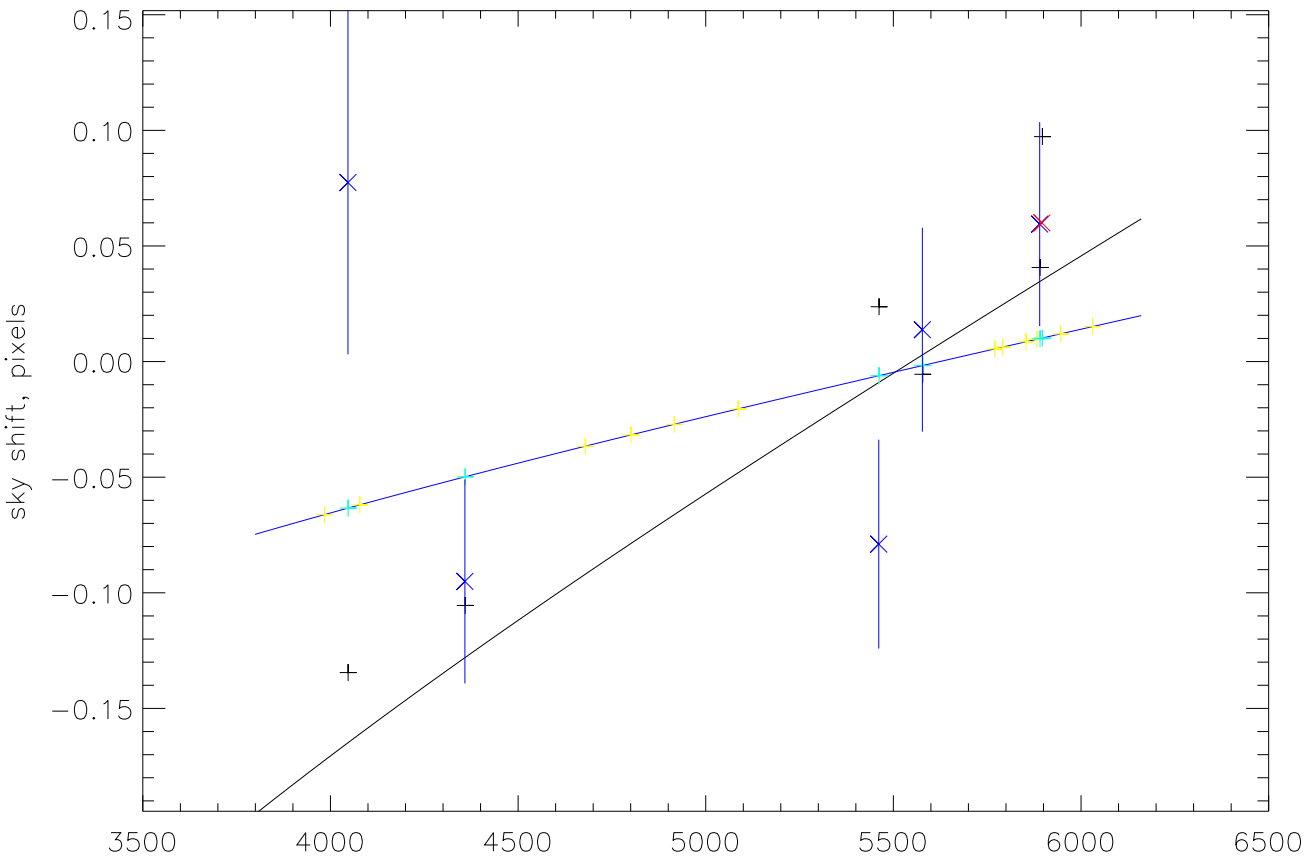

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

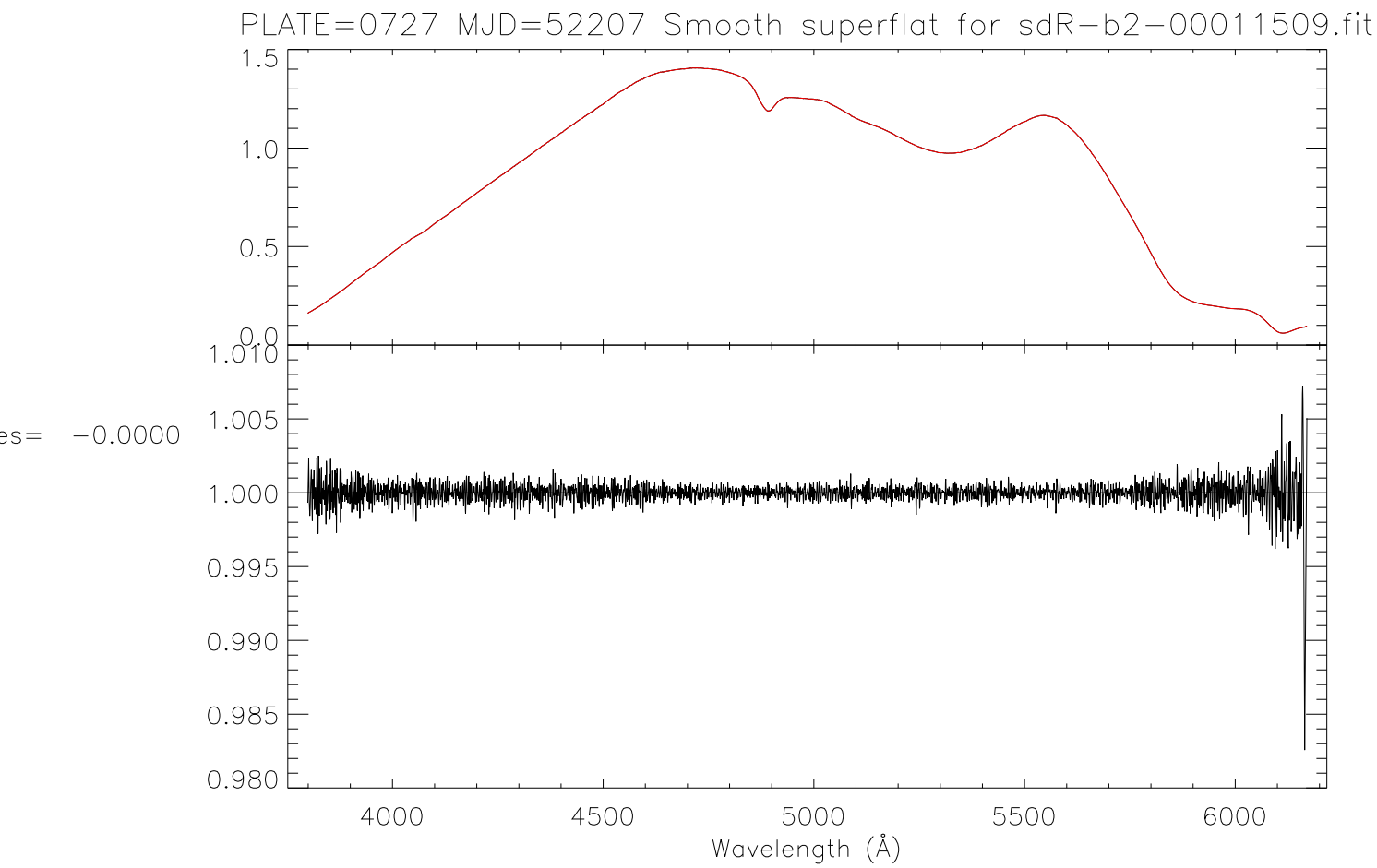

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

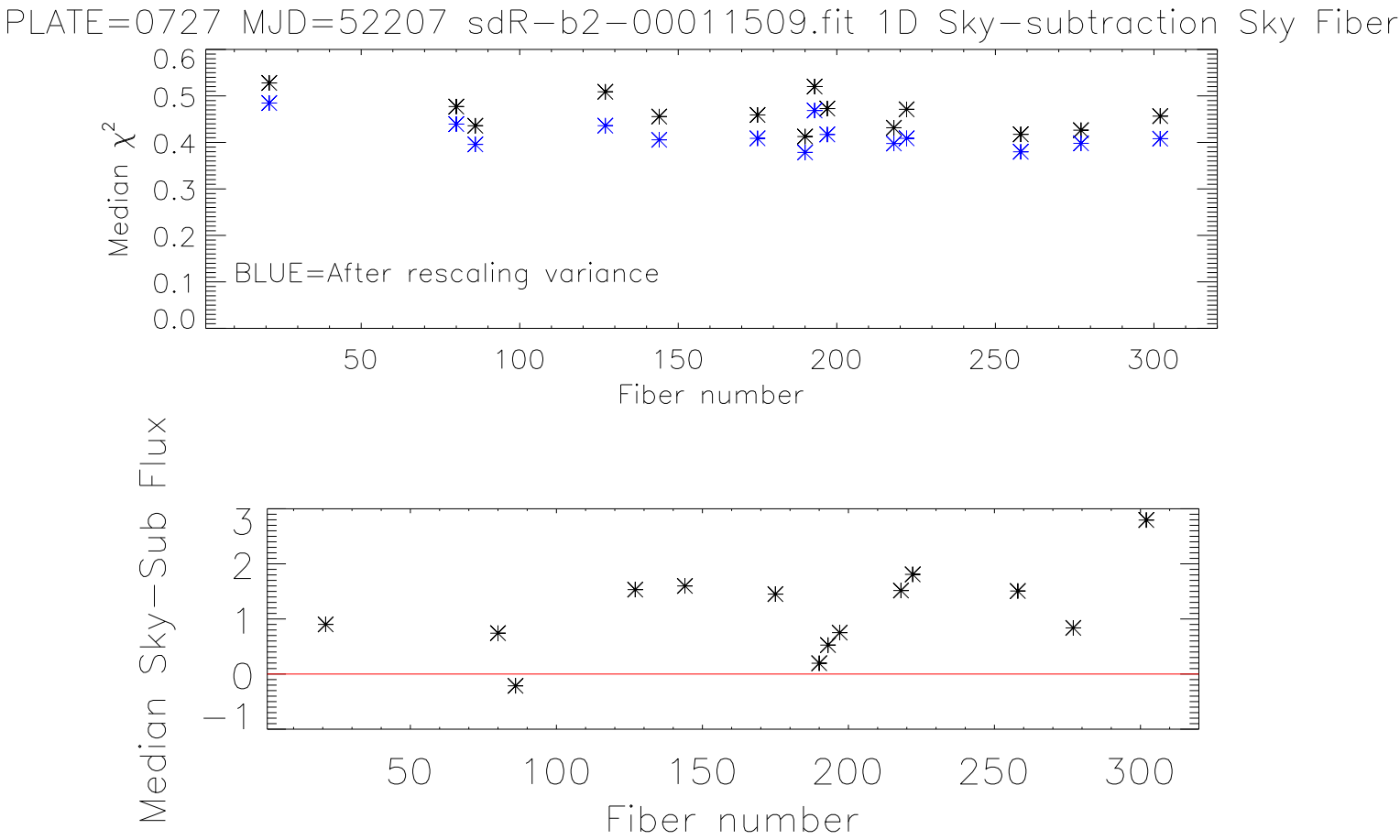

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

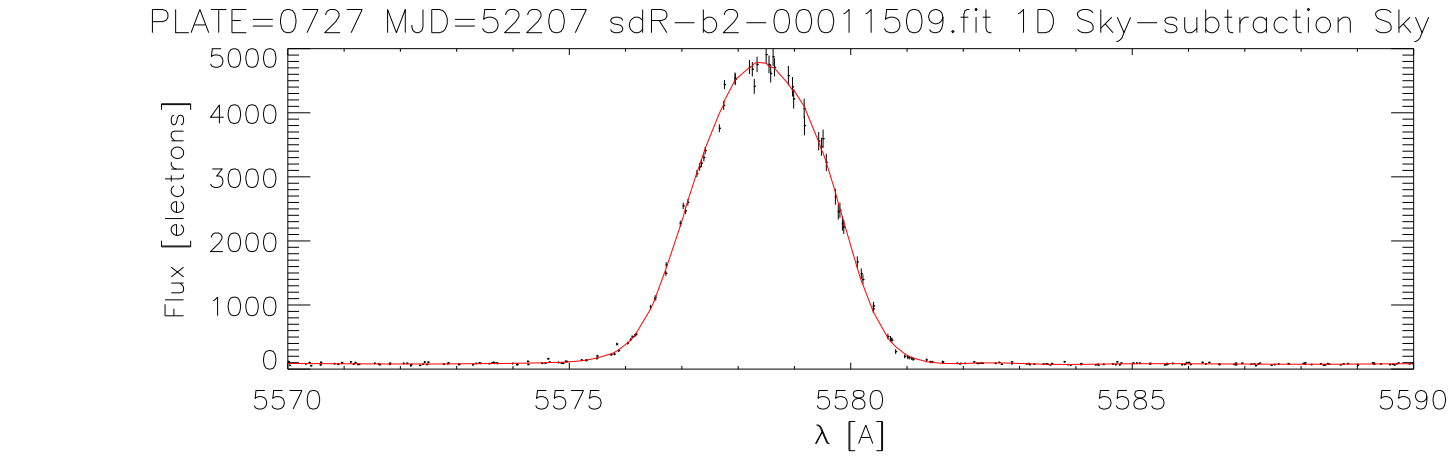

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

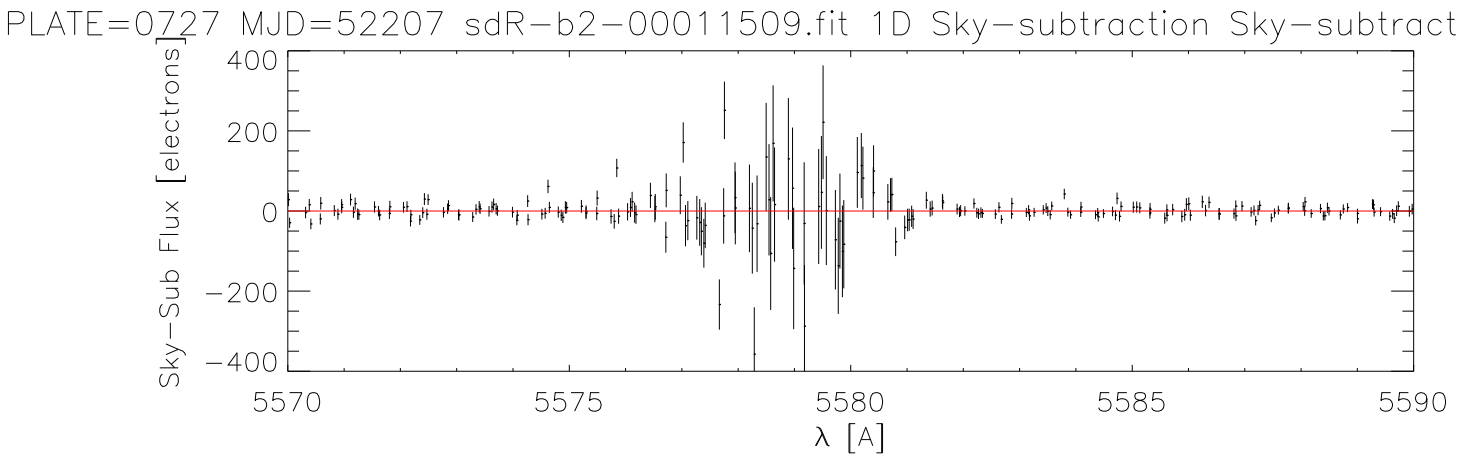

4046.5600
nfib1 16
nfib2 15
stdev 0.136
extra 0.08
4358.3300
nfib1 16
nfib2 16
stdev 0.093
extra −0.10
5460.9400
nfib1 16
nfib2 16
stdev 0.075
extra −0.08
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra 0.01
5889.9500
nfib1 16
nfib2 16
stdev 0.048
extra 0.06
5895.9240
nfib1 16
nfib2 16
stdev 0.058
extra 0.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

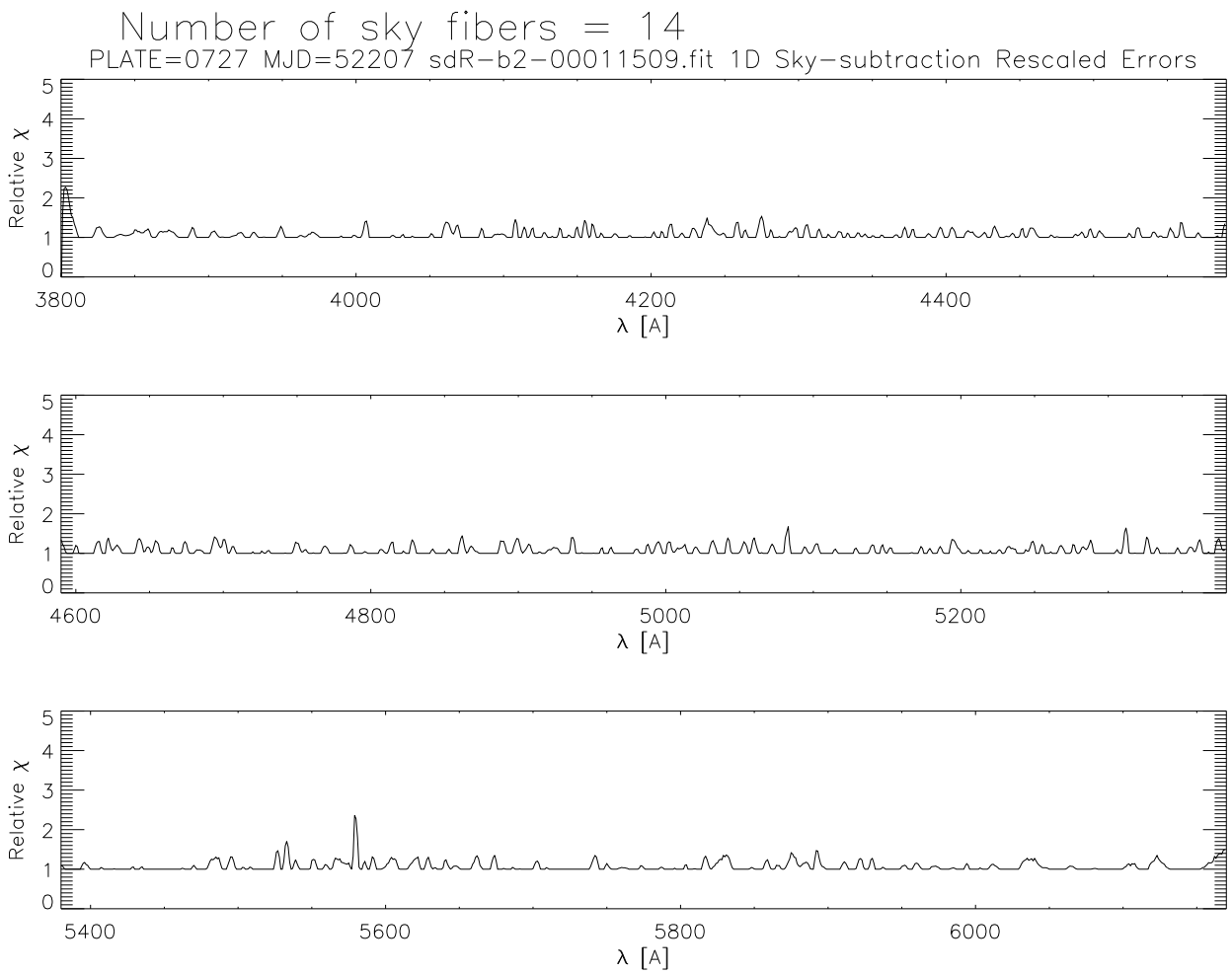

0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

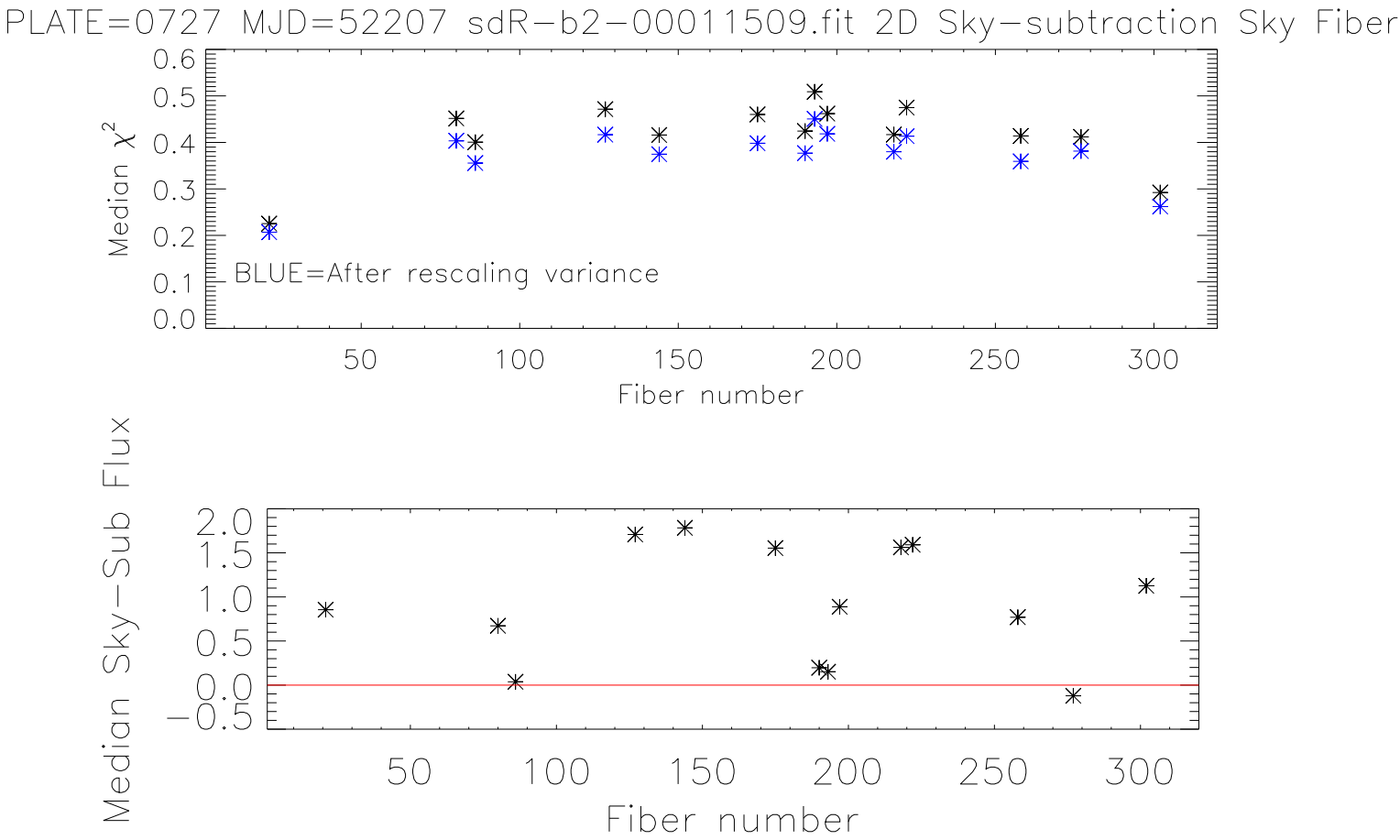

PLATE=0727 MJD=52207 Smooth superflat for sdR-b2-00011509.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

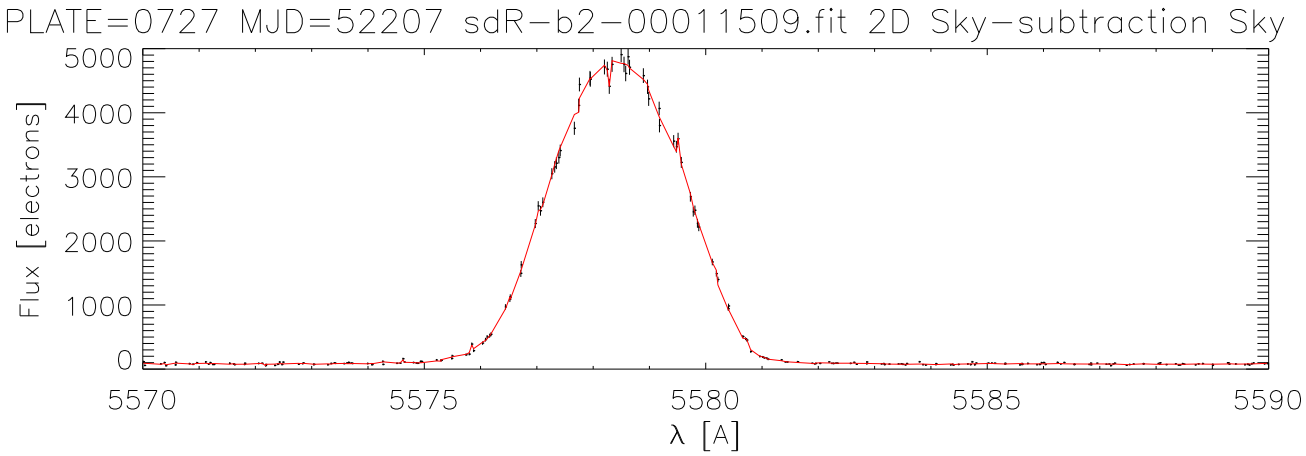

PLATE=0727 MJD=52207 sdR-b2-00011509.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

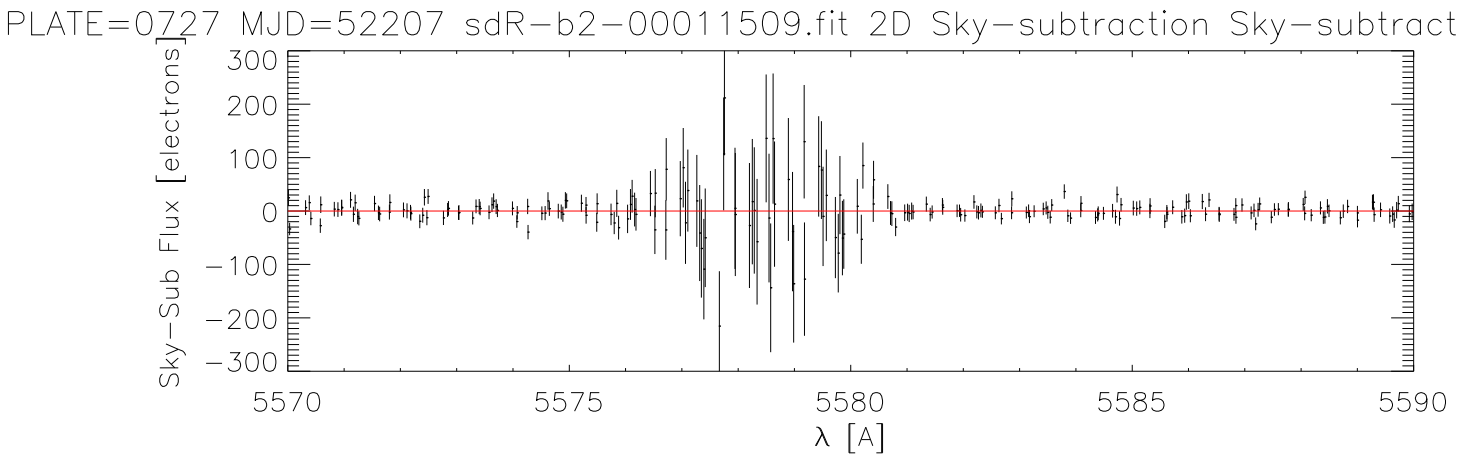

PLATE=0727 MJD=52207 sdR-b2-00011509.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

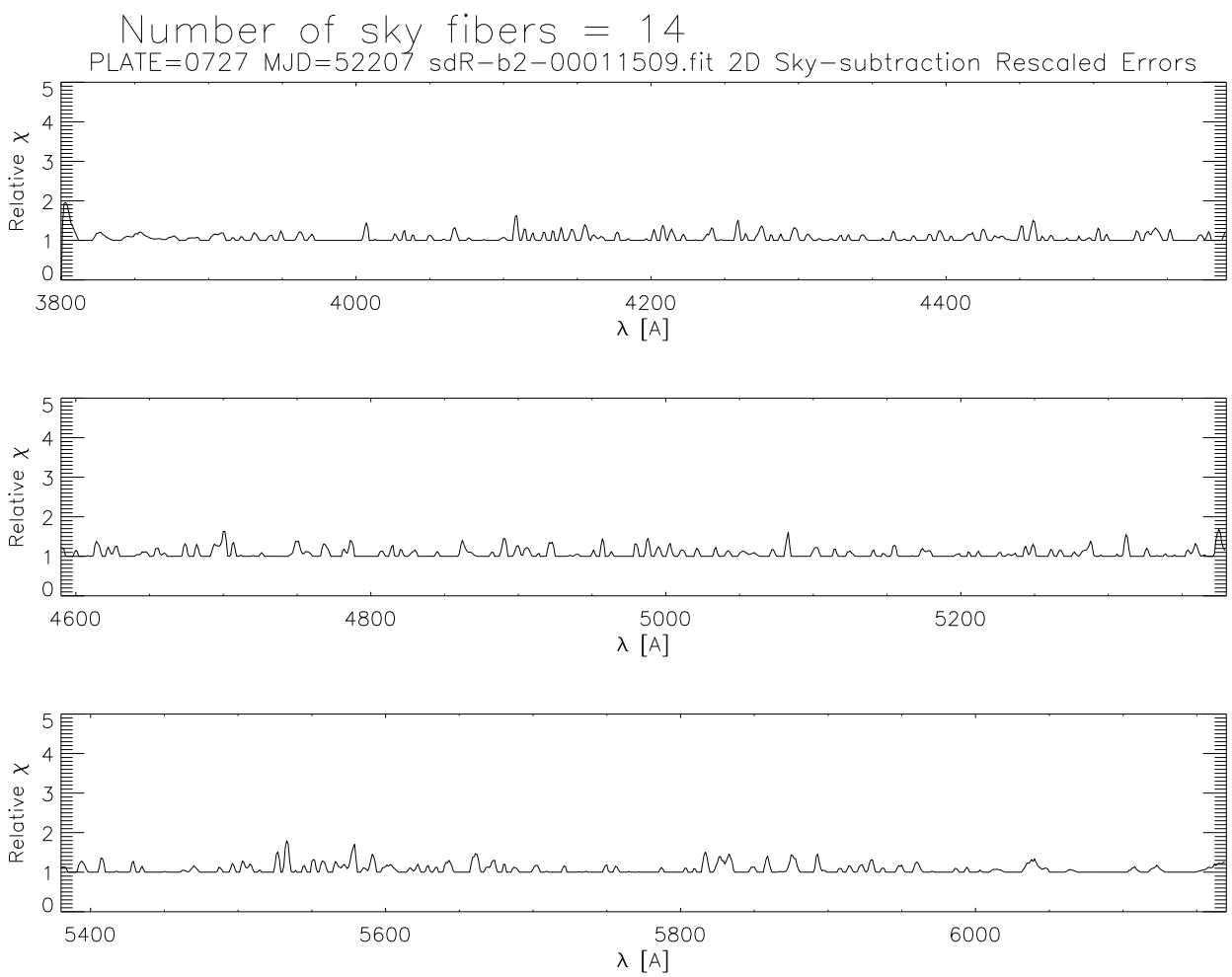

PLATE=0727 MJD=52207 sdR-b2-00011509.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

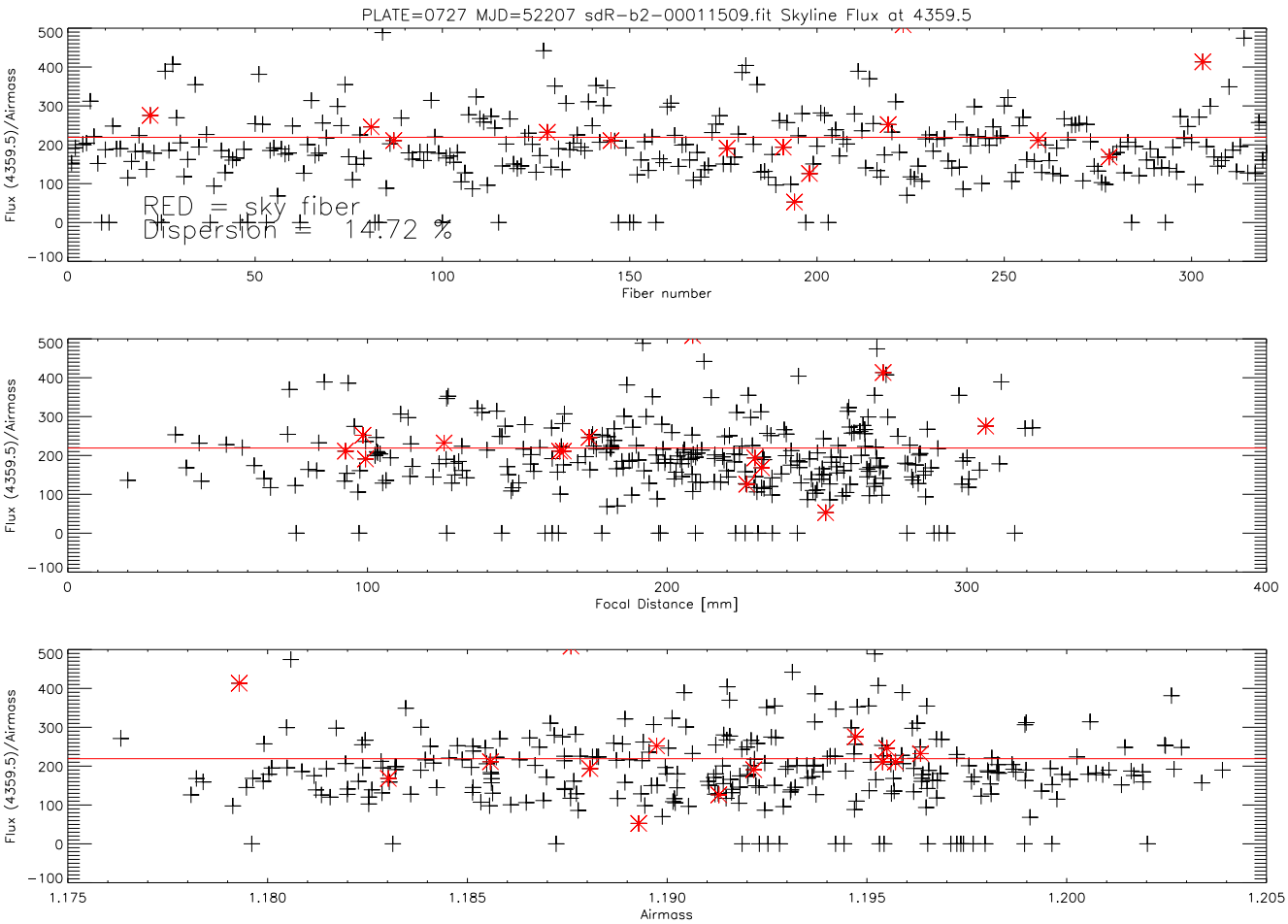

Number of sky fibers = 14
PLATE=0727 MJD=52207 sdR-b2-00011509.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

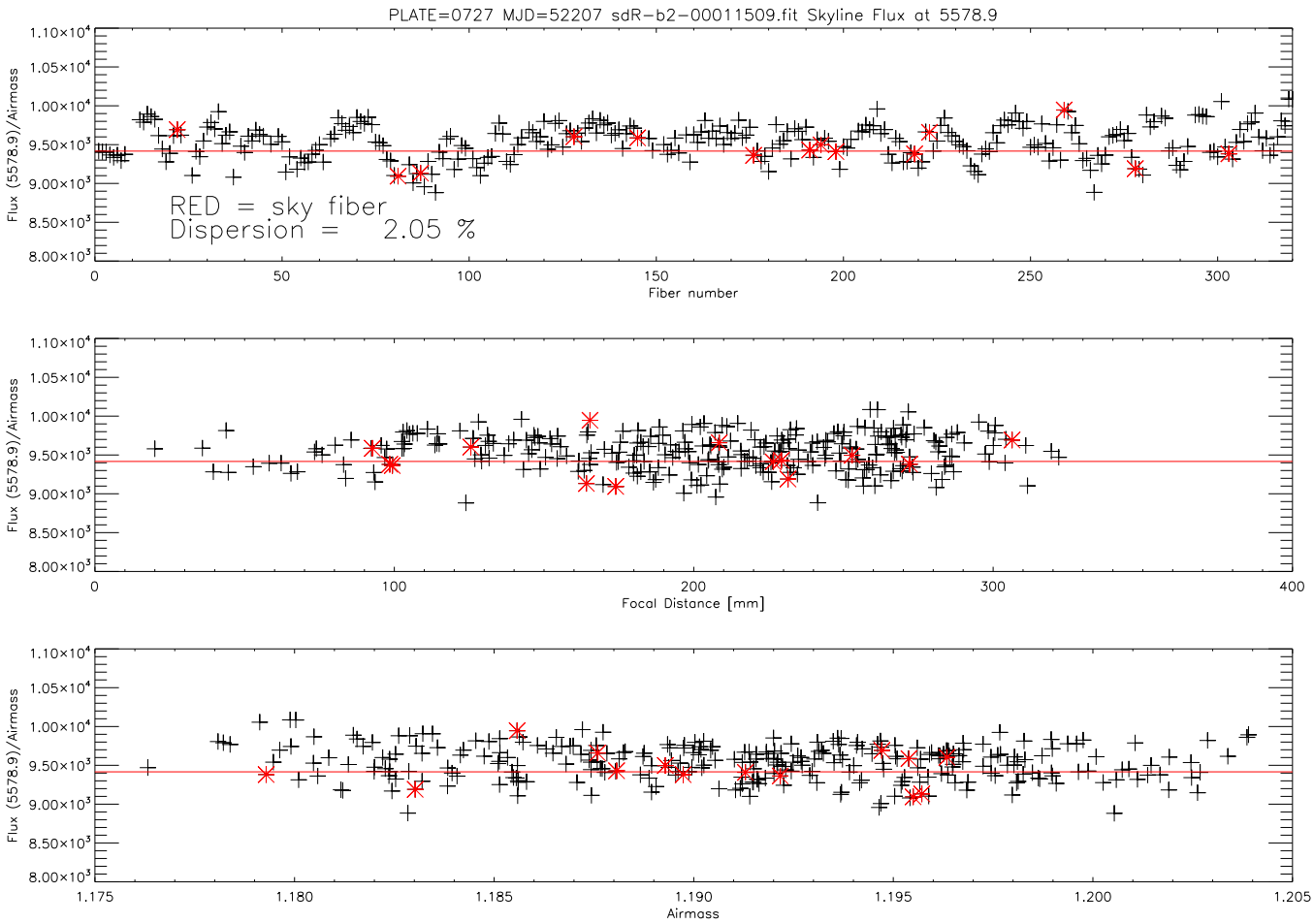

PLATE=0727 MJD=52207 sdR-b2-00011509.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

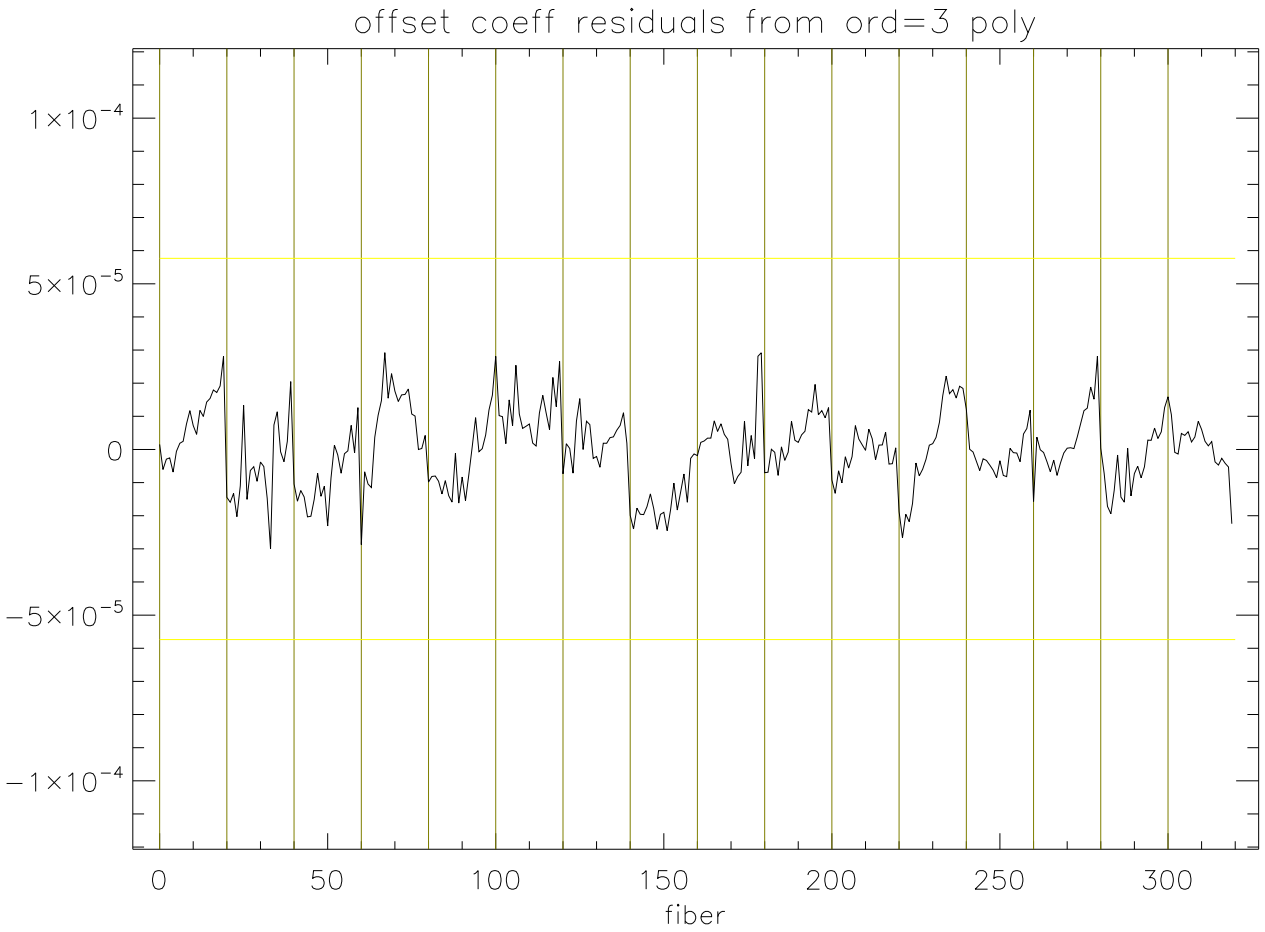

PLATE=0727 MJD=52207 sdR-b2-00011509.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

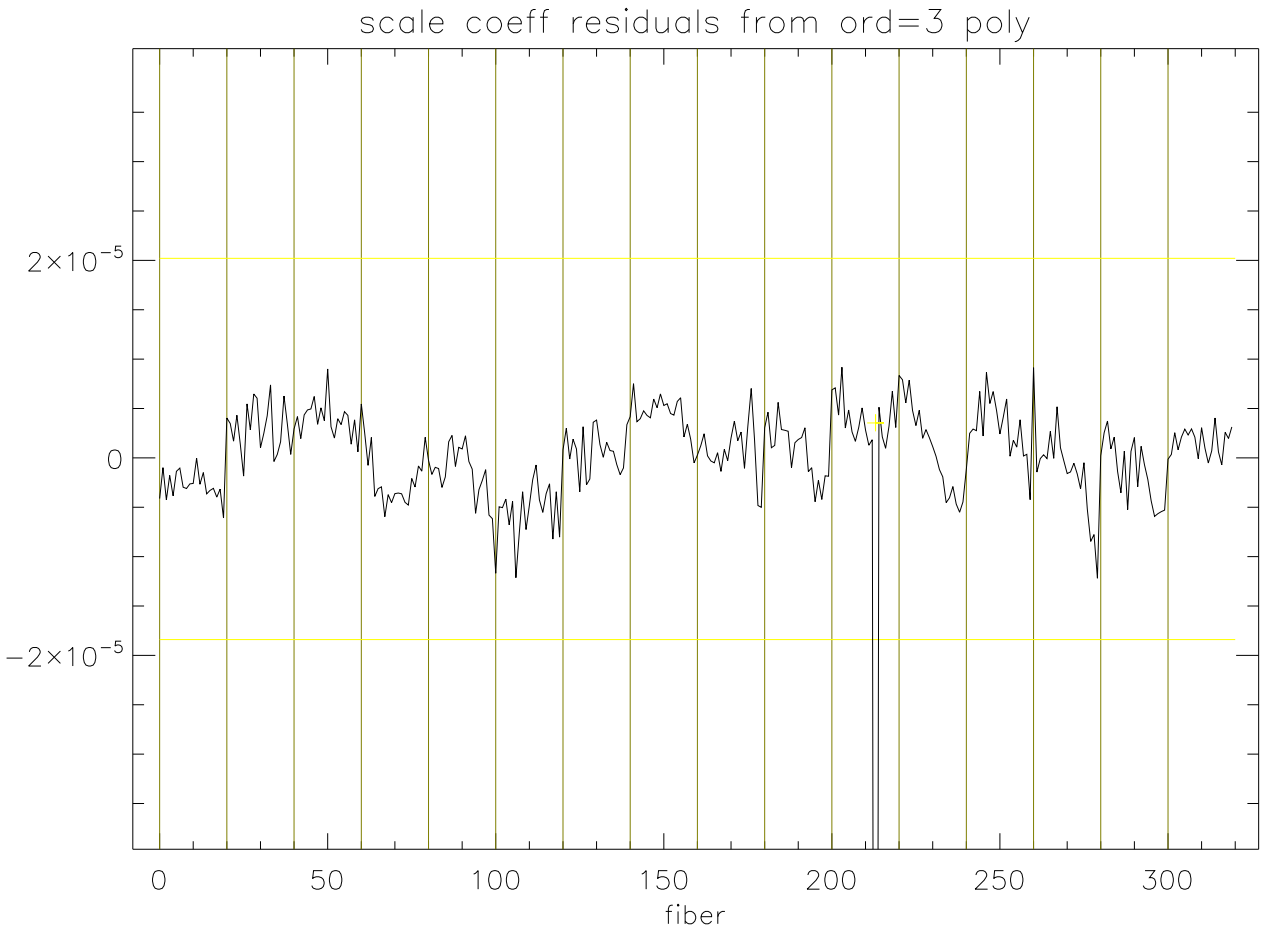

PLATE=0727 MJD=52207 sdR-b2-00011509.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

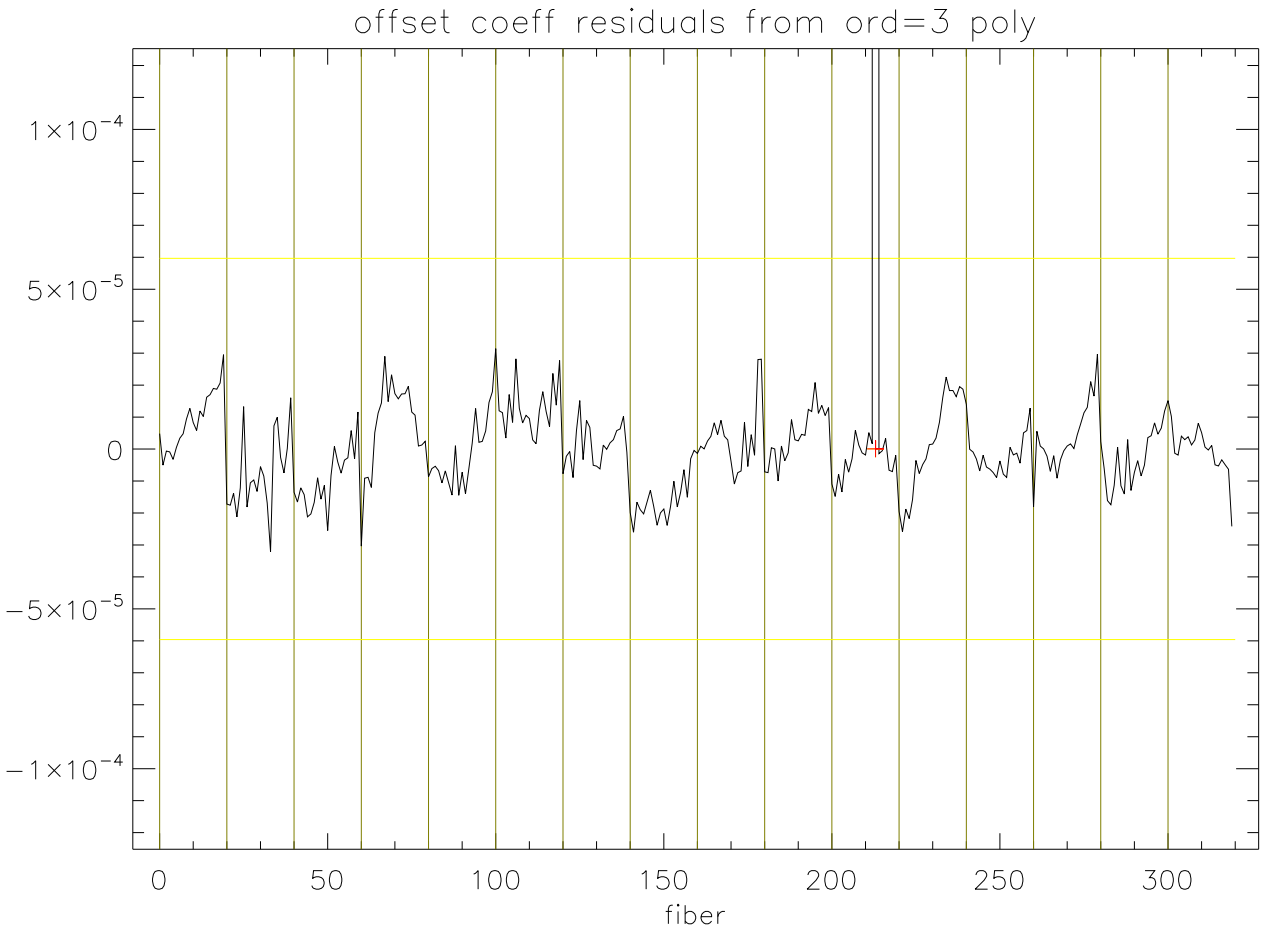

Number of sky fibers = 14
PLATE=0727 MJD=52207 sdR-b2-00011509.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

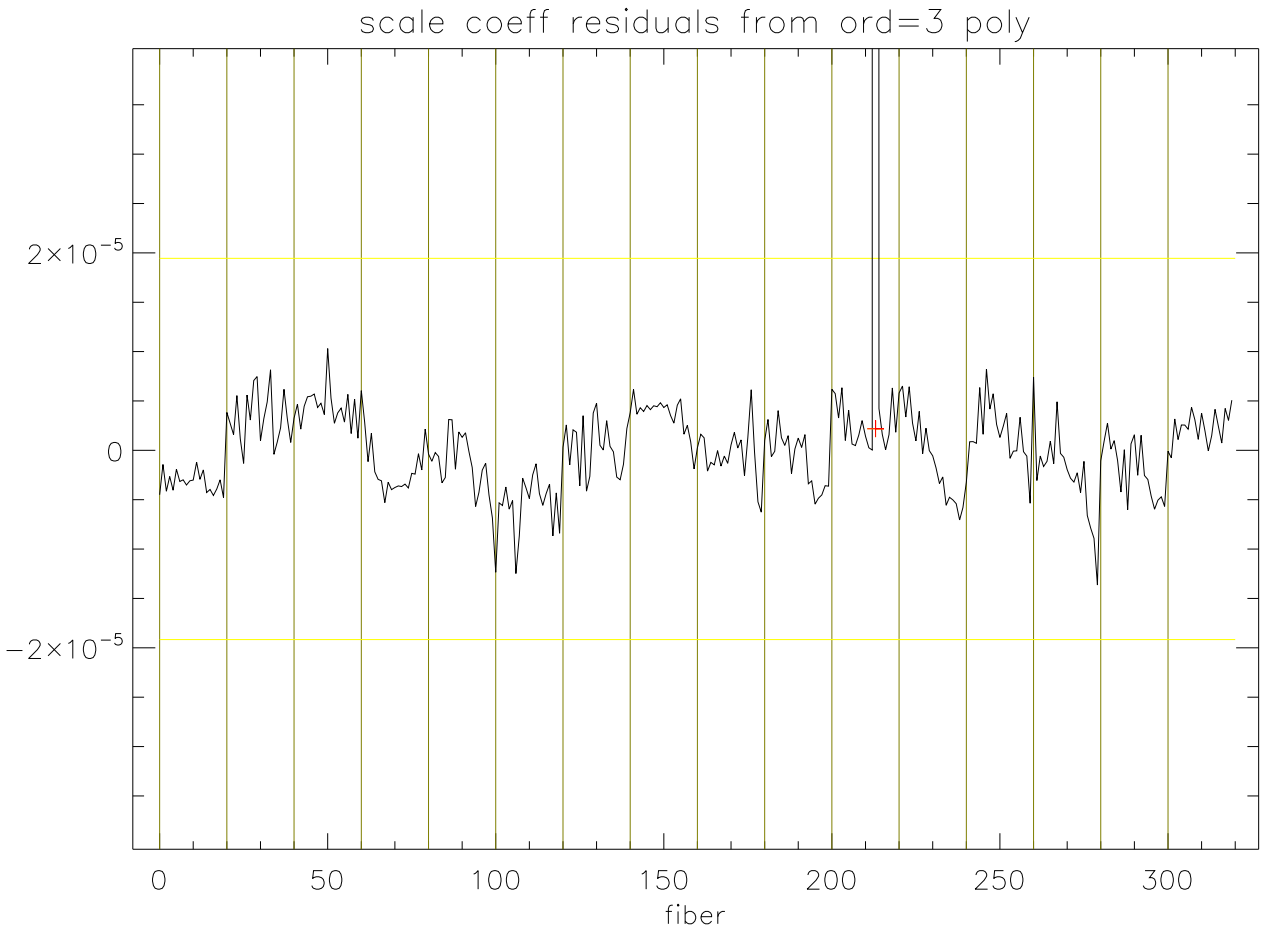

PLATE=0727 MJD=52207 sdR-b2-00011509.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 14.72 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

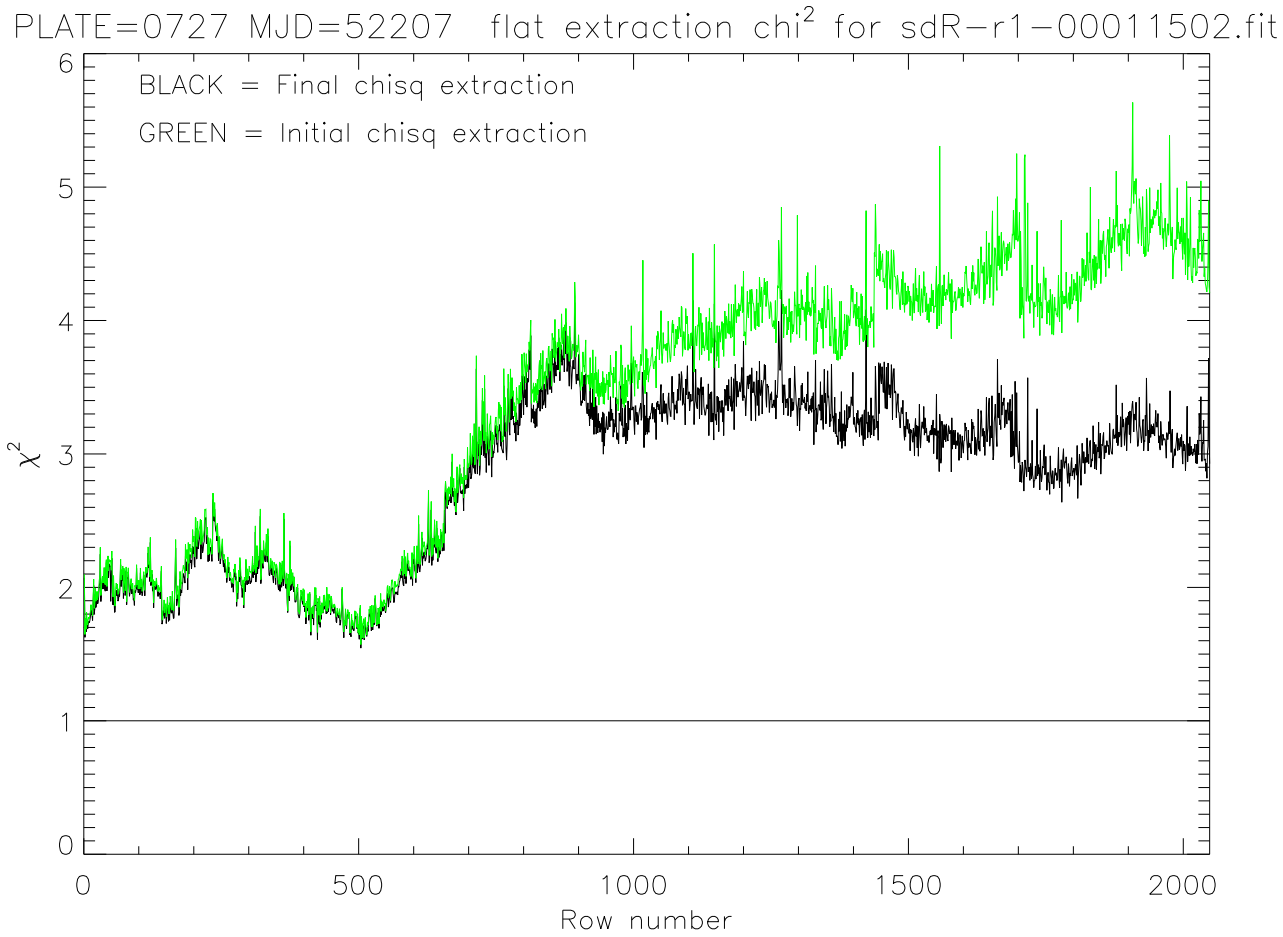

PLATE=0727 MJD=52207 sdR-b2-00011509.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.05 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

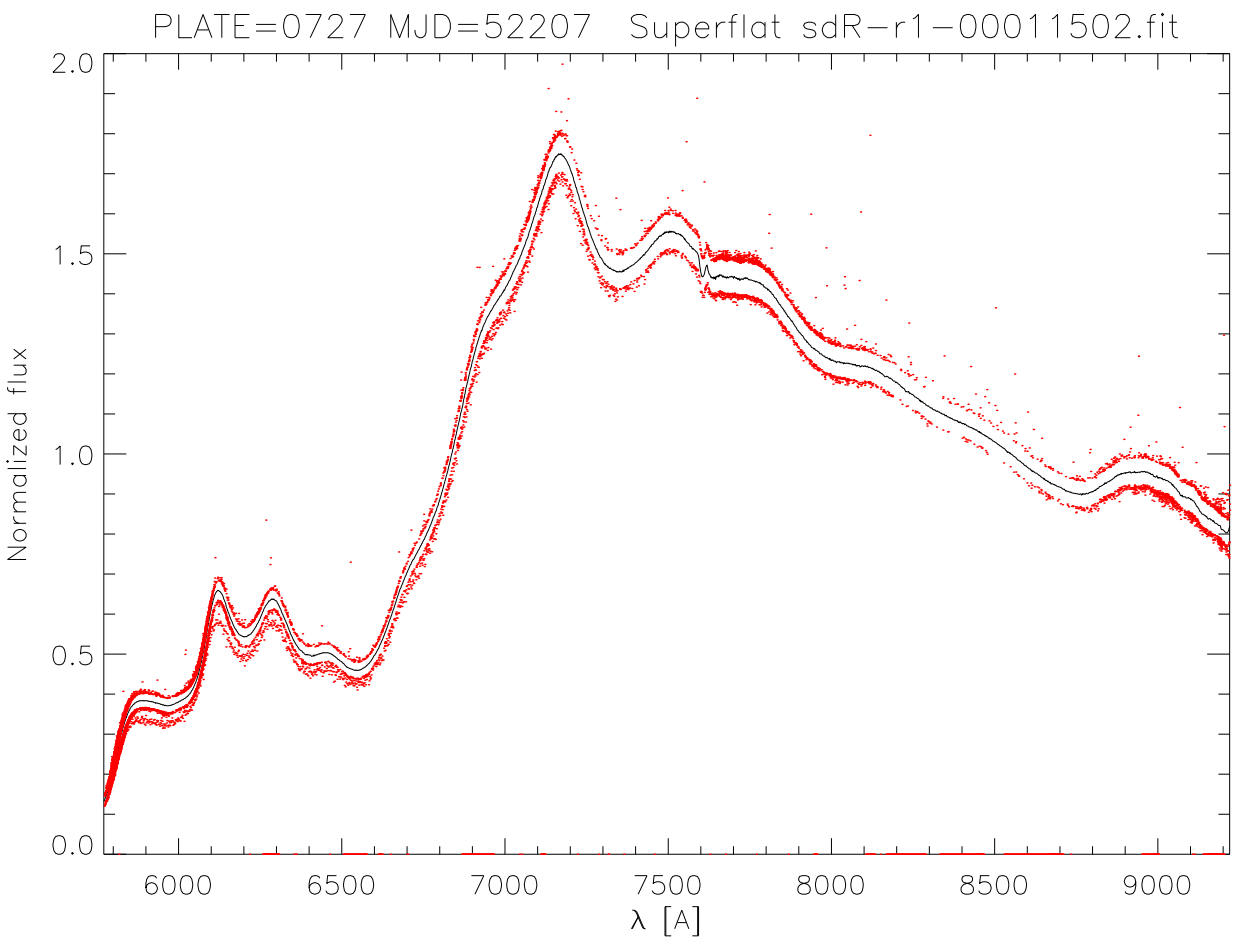

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

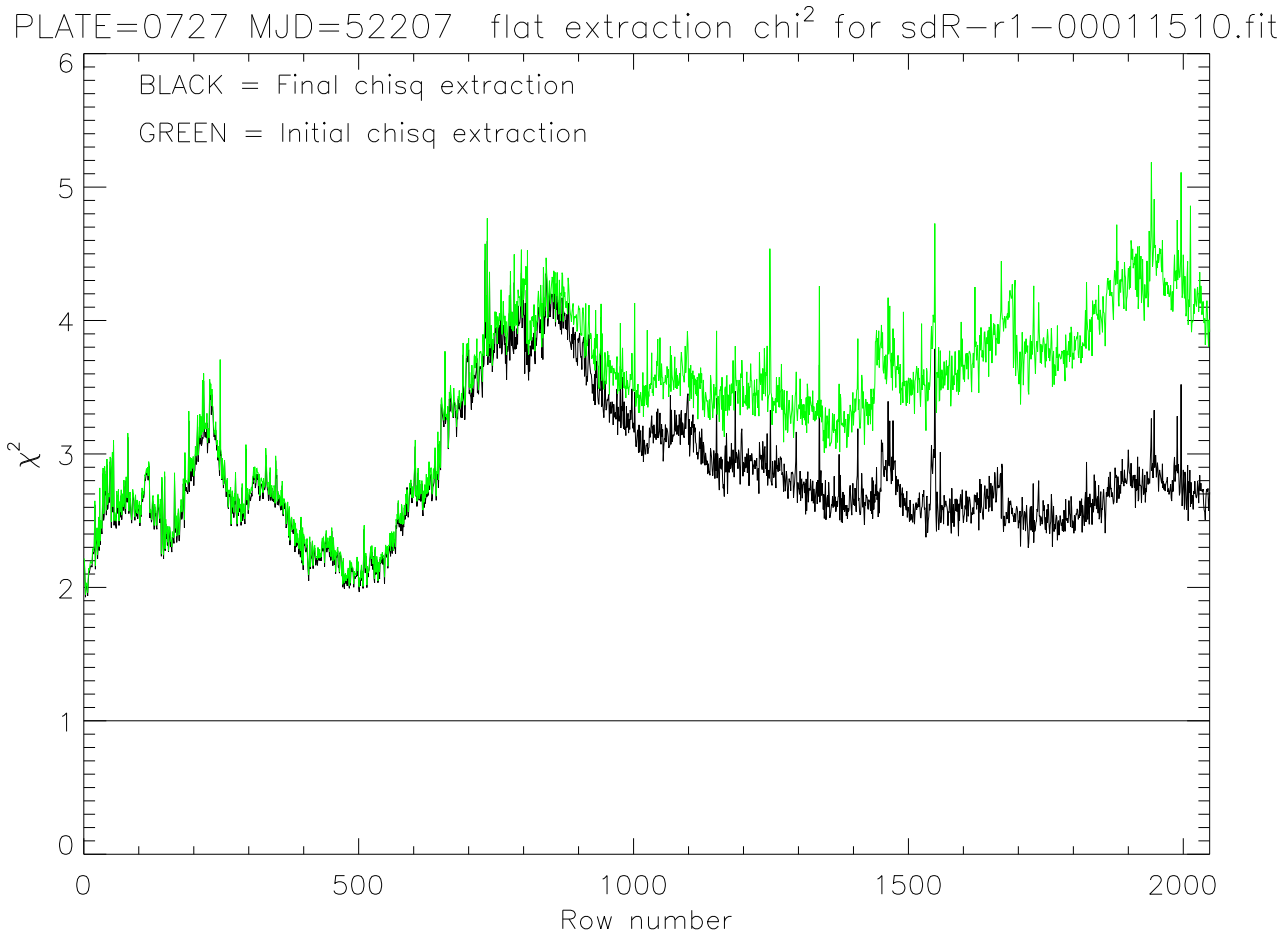

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

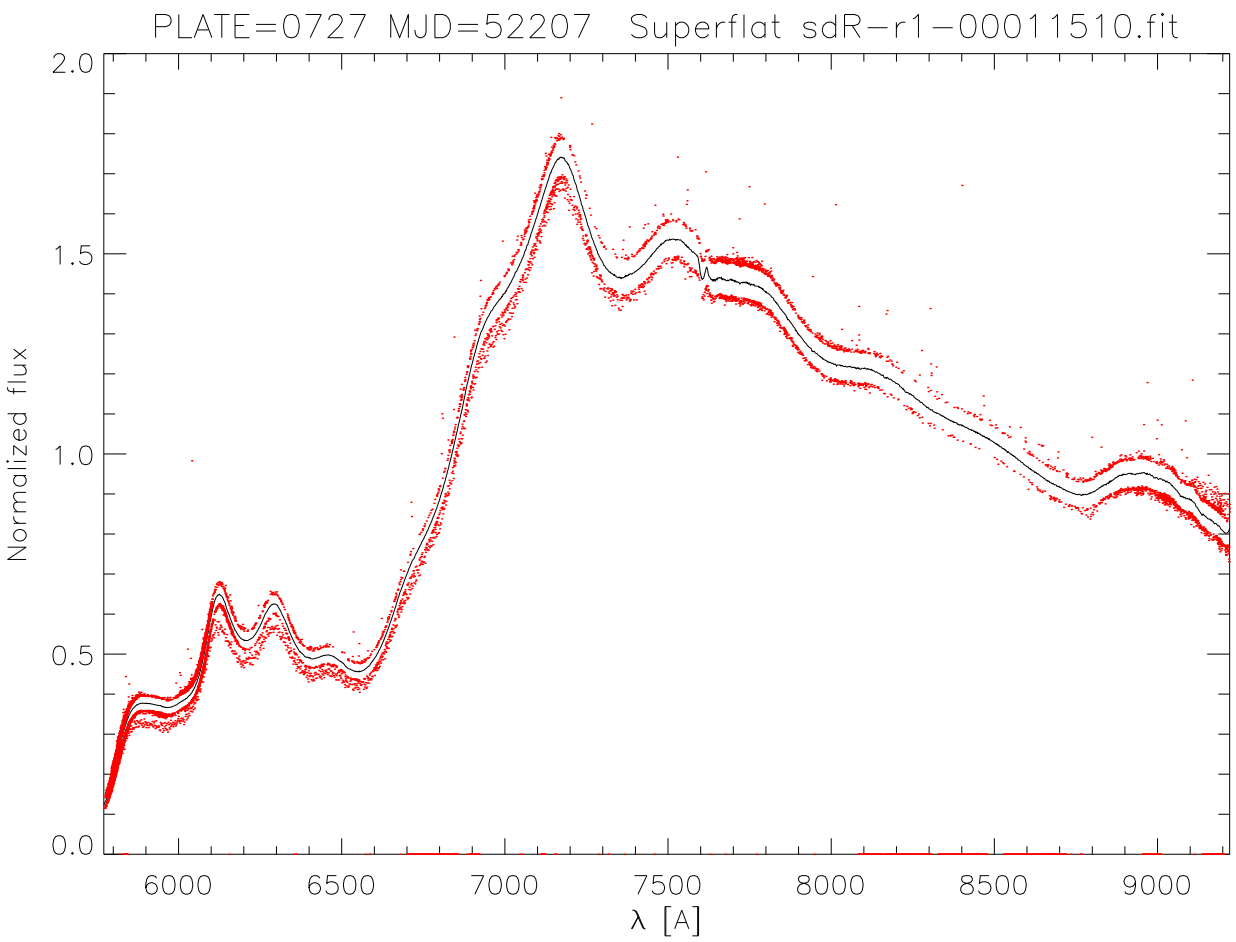

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

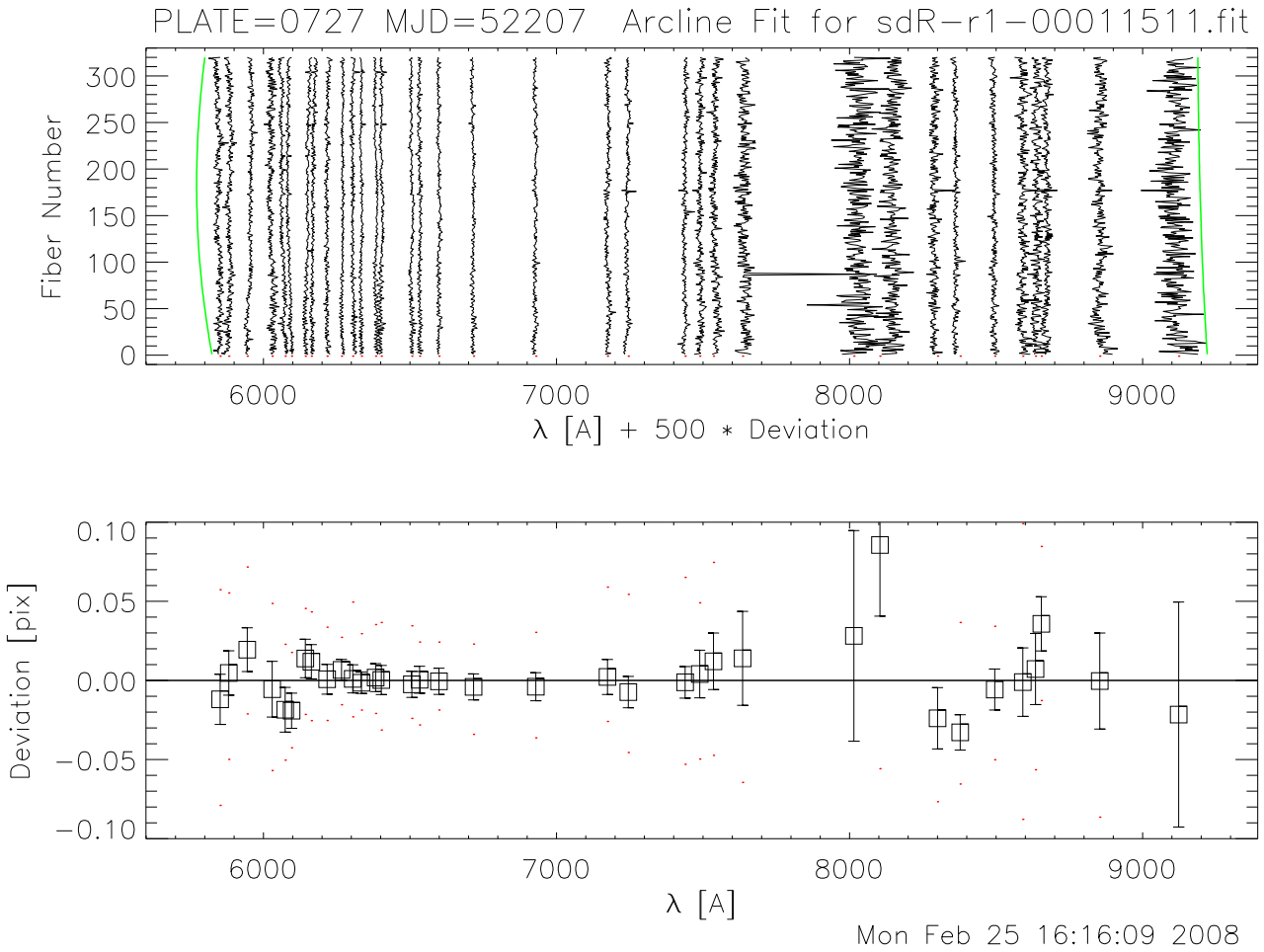

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

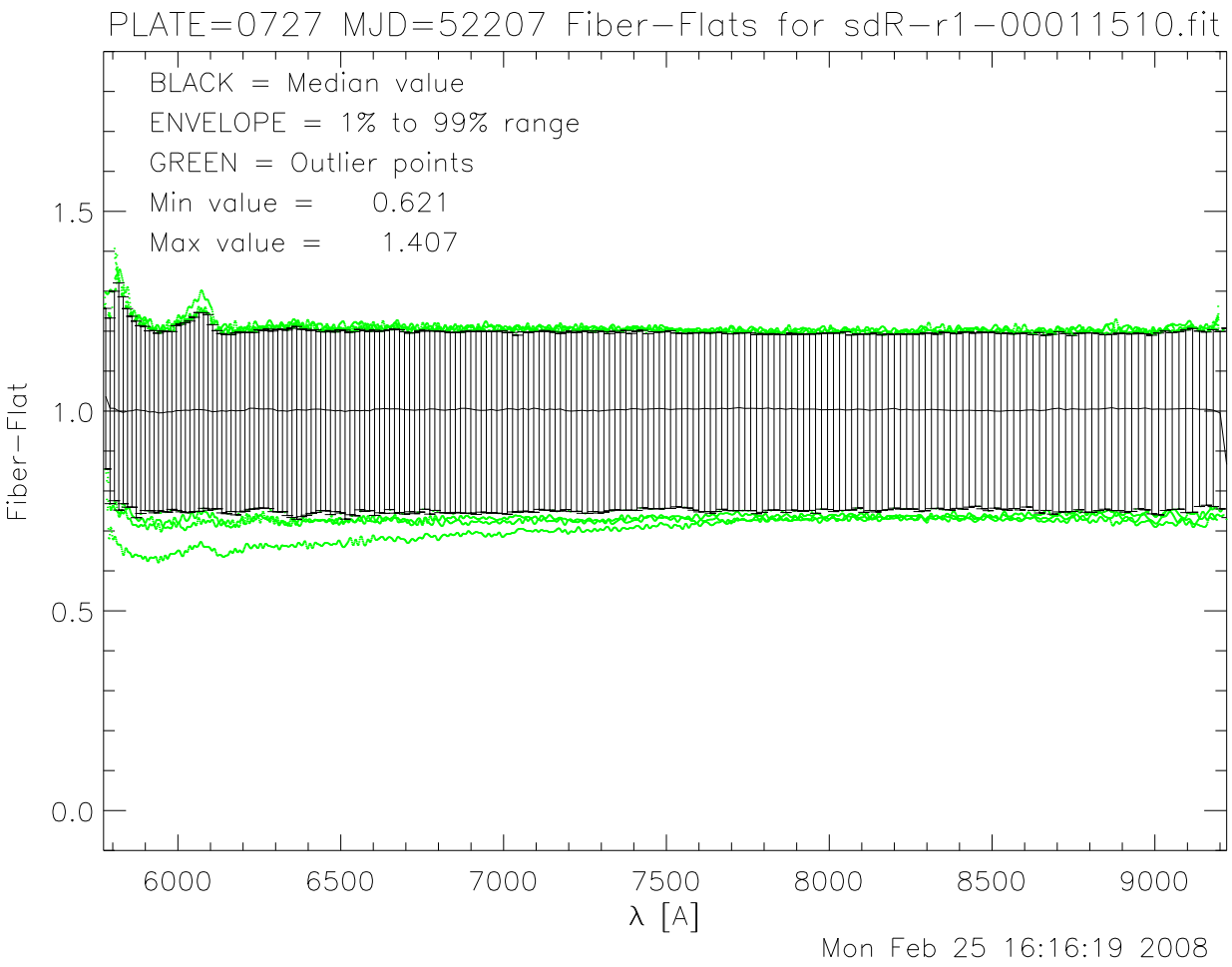

PLATE=0727 MJD=52207 flat extraction chi^2 for sdR−r1−00011502.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

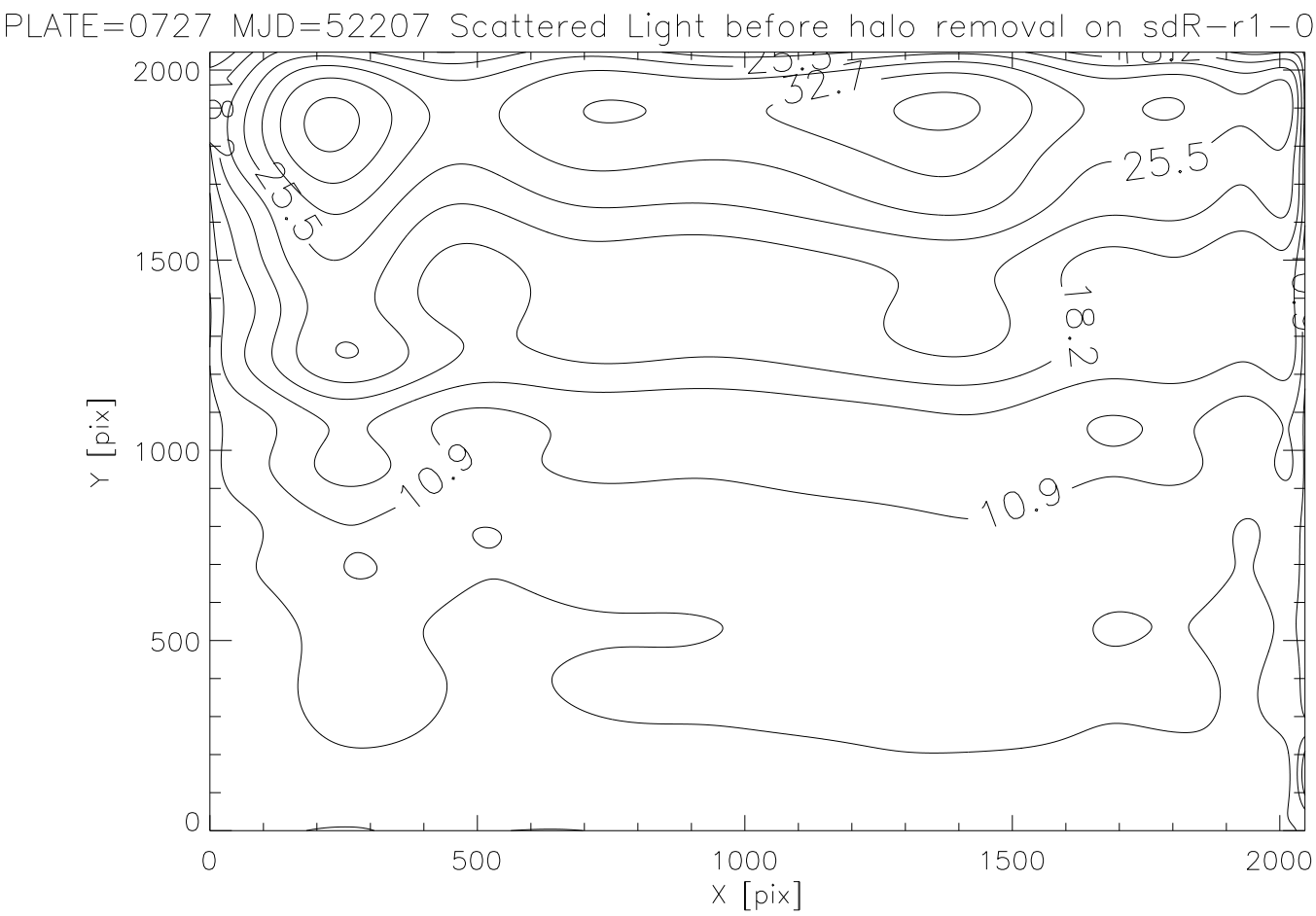

PLATE=0727 MJD=52207 Superflat sdR-r1-00011502.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

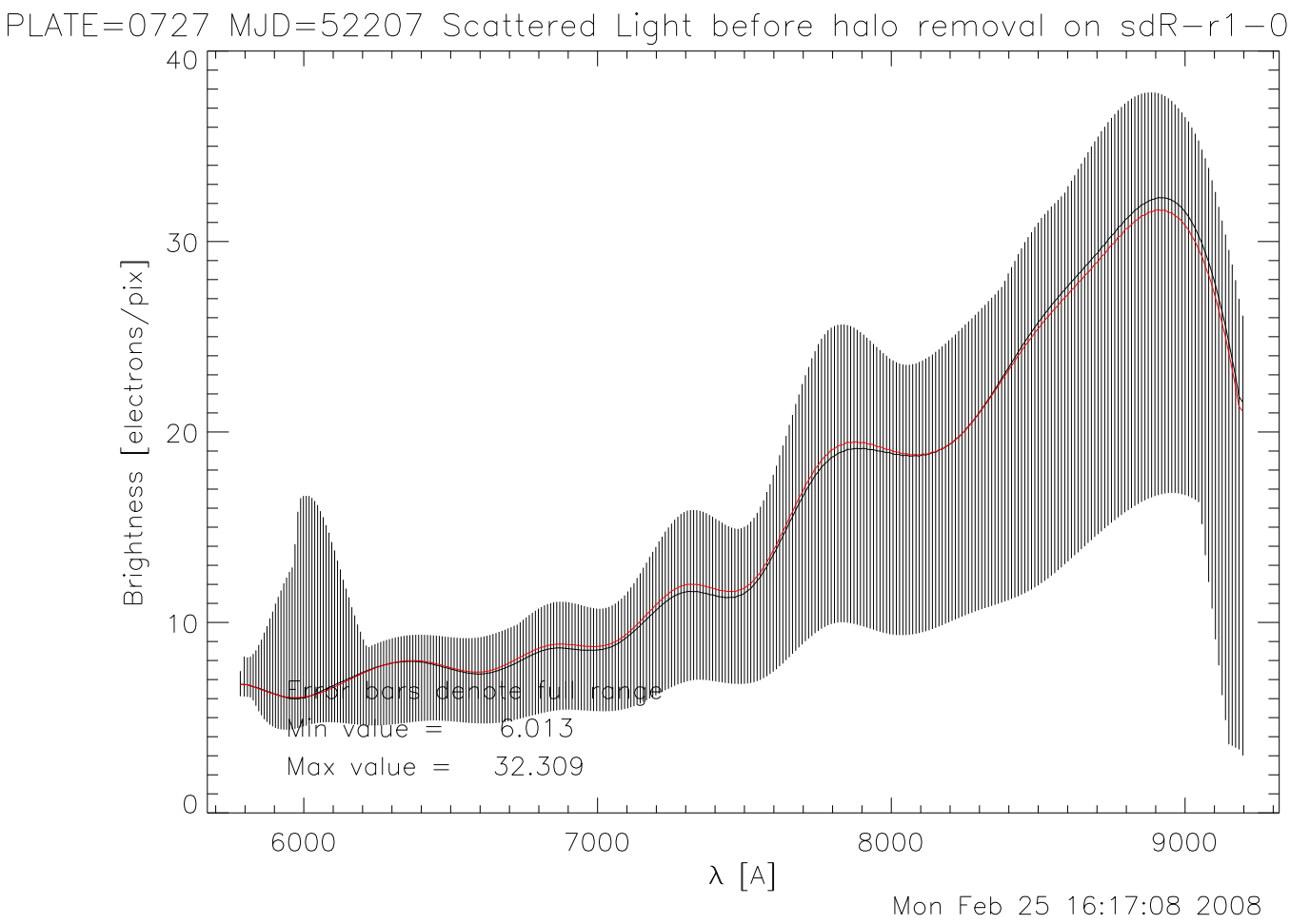

PLATE=0727 MJD=52207 flat extraction chi^2 for sdR−r1−00011510.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

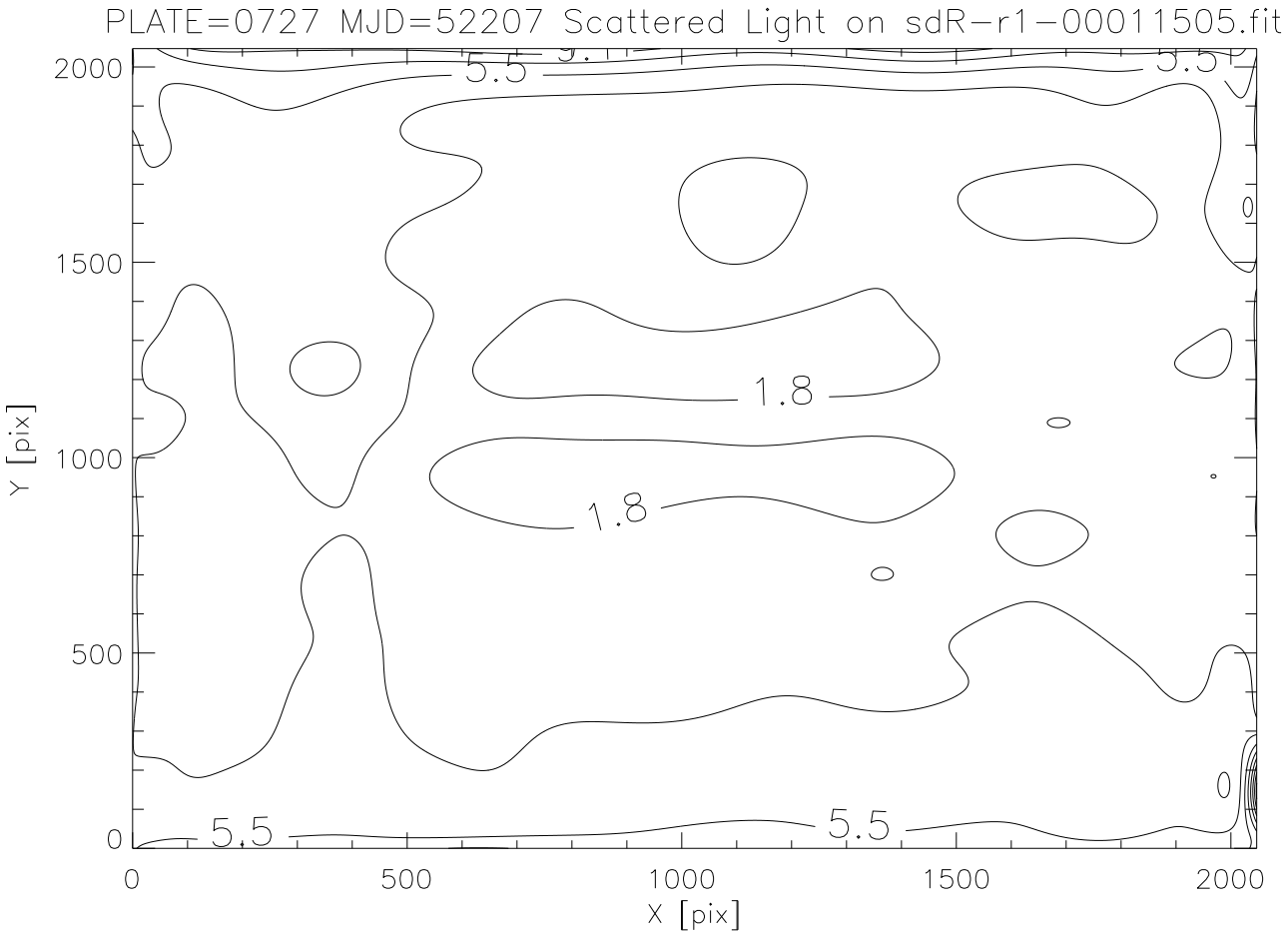

PLATE=0727 MJD=52207 Superflat sdR-r1-00011510.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

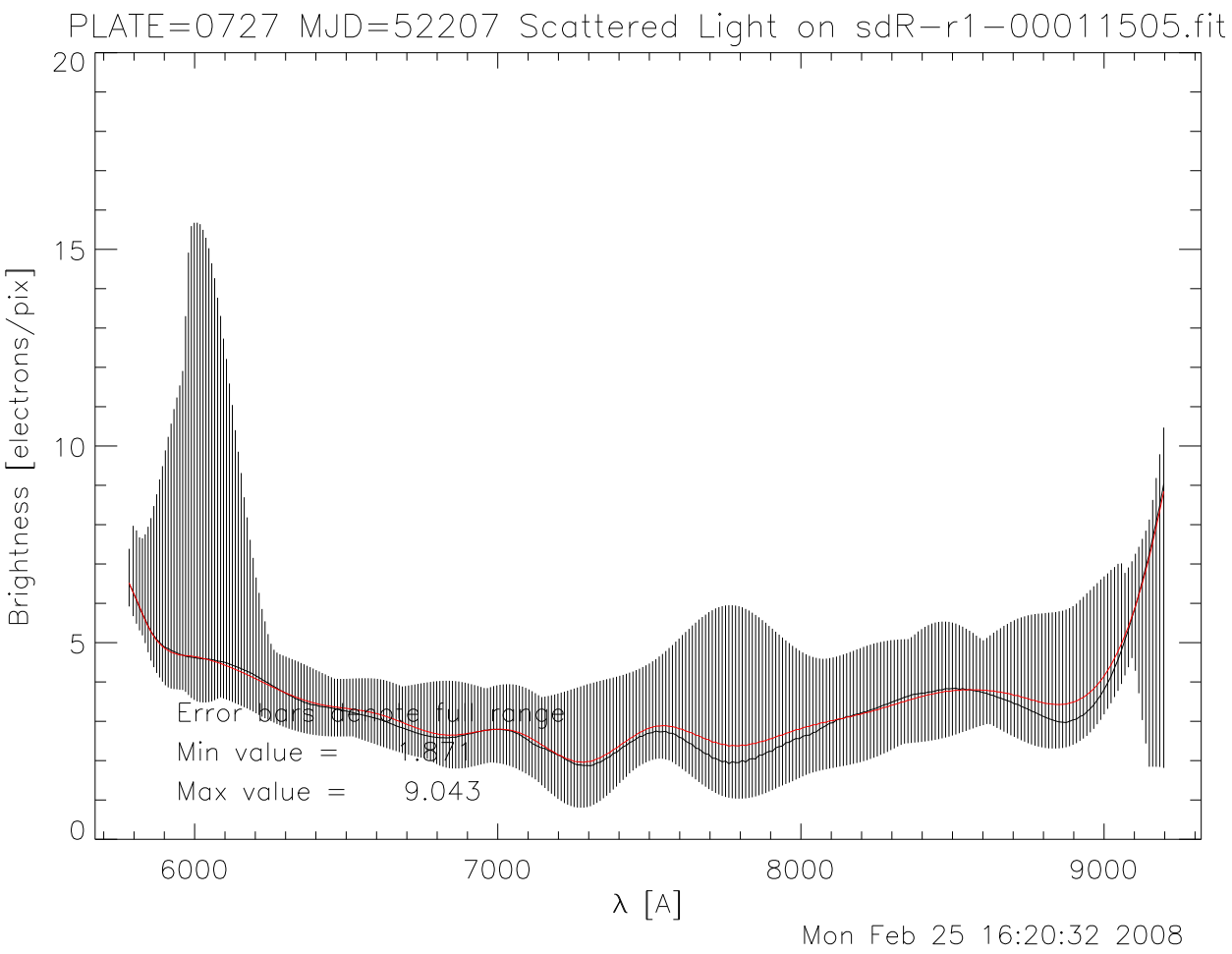

PLATE=0727 MJD=52207 Arcline Fit for sdR-r1-00011511.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 25 16:16:09 2008

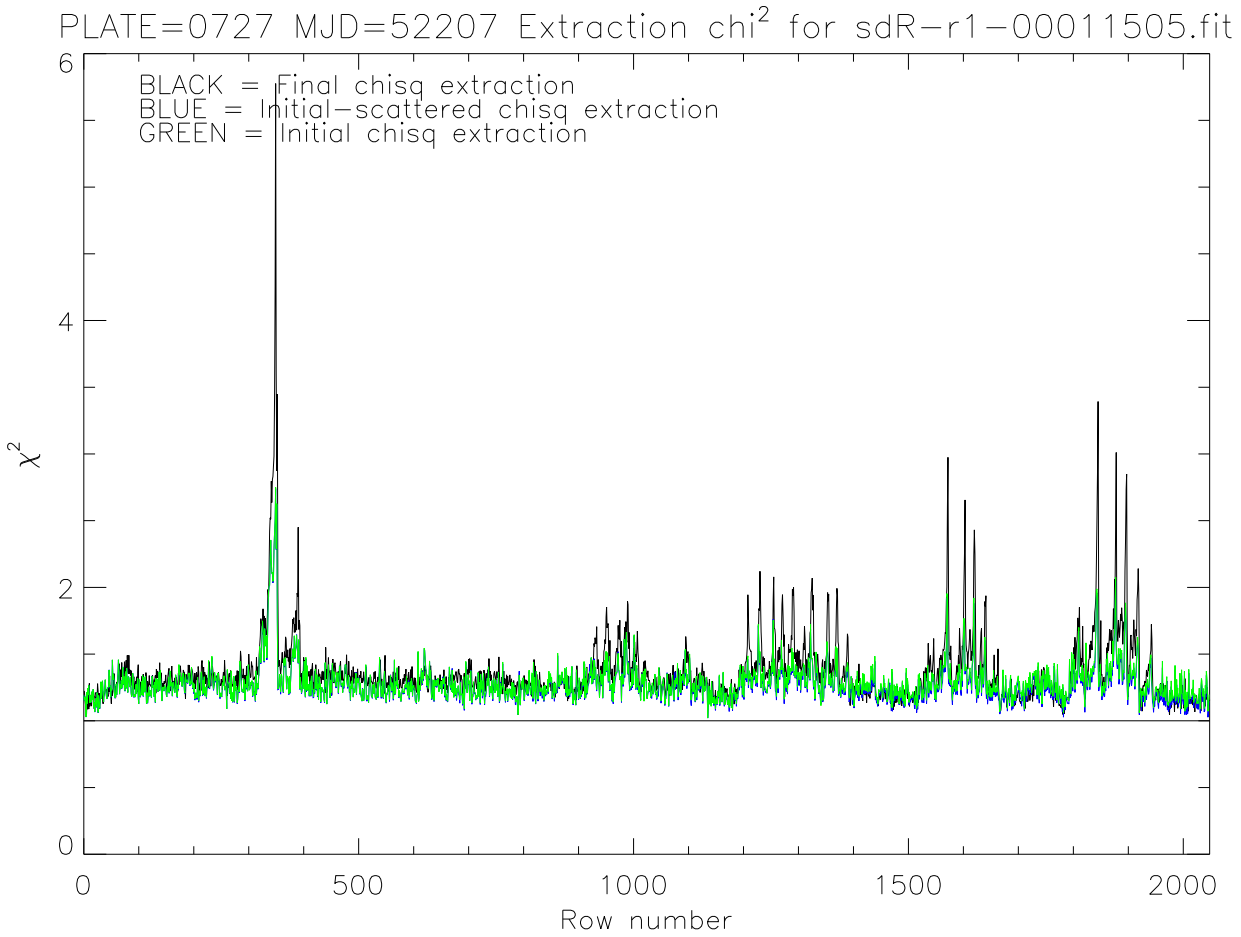

PLATE=0727 MJD=52207 Fiber−Flats for sdR−r1−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.621
Max value = 1.407
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 16:16:19 2008

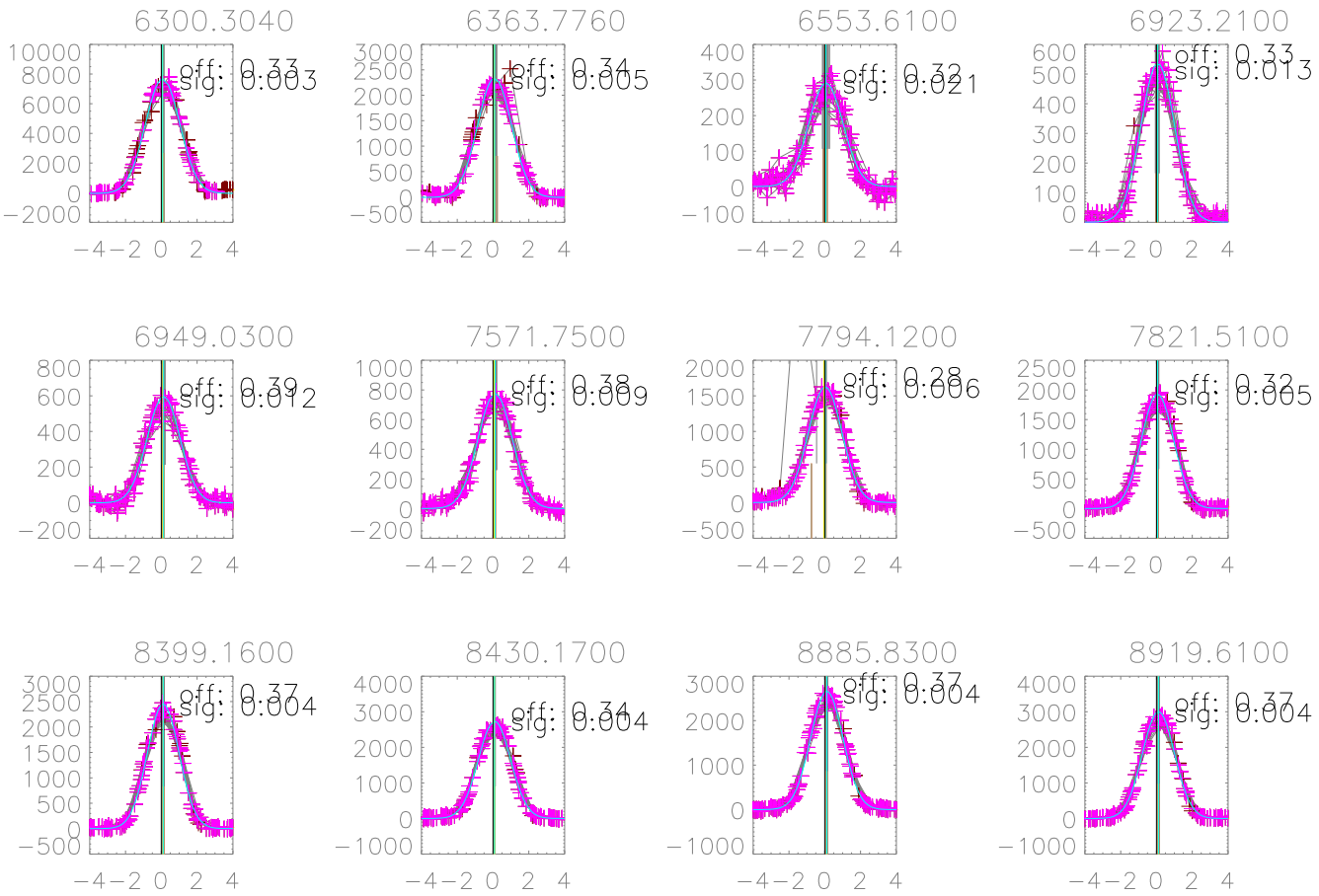

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r1-00011505.fi
52.7
25.5
25.5
18.2
10.9
10.9
0
0
Y [pix]
X [pix]
0
500
1000
1500
2000

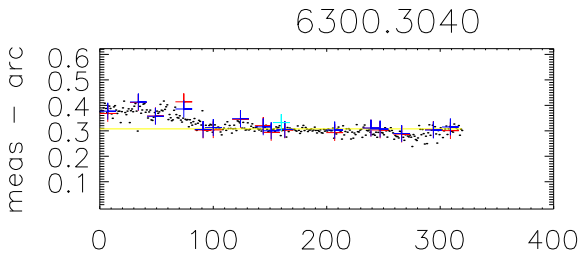

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r1-00011505.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.013
Max value = 32.309
Mon Feb 25 16:17:08 2008

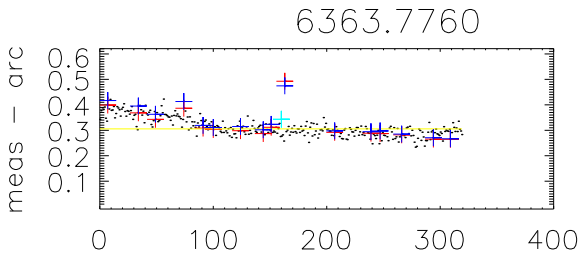

PLATE=0727 MJD=52207 Scattered Light on sdR-r1-00011505.fit
5.5
5.5
1.8
1.8
5.5
5.5
0
0
Y [pix]
X [pix]
0
500
1000
1500
2000

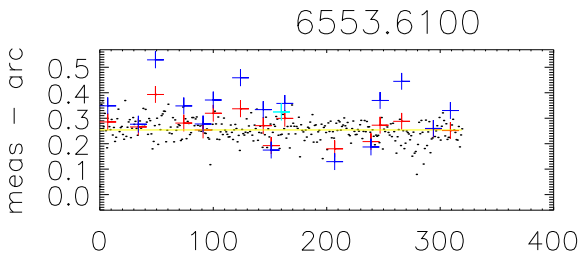

PLATE=0727 MJD=52207 Scattered Light on sdR-r1-00011505.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.871
Max value = 9.043
Mon Feb 25 16:20:32 2008

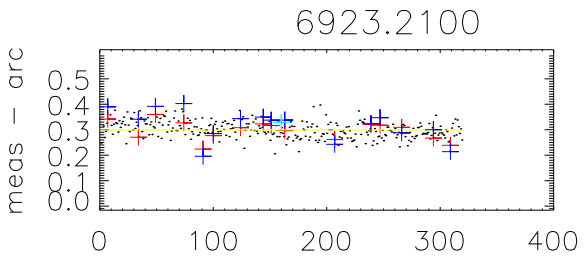

PLATE=0727 MJD=52207 Extraction chi^2 for sdR−r1−00011505.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

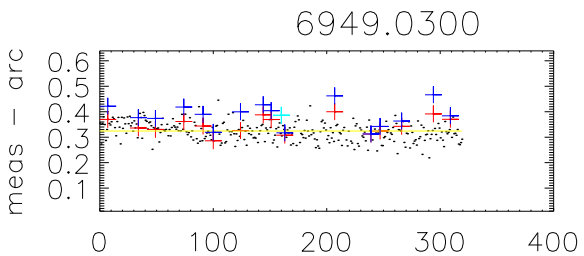

6300.3040
off: 0.33
sig: 0.003
6363.7760
off: 0.34
sig: 0.005
6553.6100
off: 0.32
sig: 0.021
6923.2100
off: 0.33
sig: 0.013
6949.0300
off: 0.39
sig: 0.012
7571.7500
off: 0.38
sig: 0.009
7794.1200
off: 0.28
sig: 0.006
7821.5100
off: 0.32
sig: 0.005
8399.1600
off: 0.37
sig: 0.004
8430.1700
off: 0.34
sig: 0.004
8885.8300
off: 0.37
sig: 0.004
8919.6100
off: 0.37
sig: 0.004

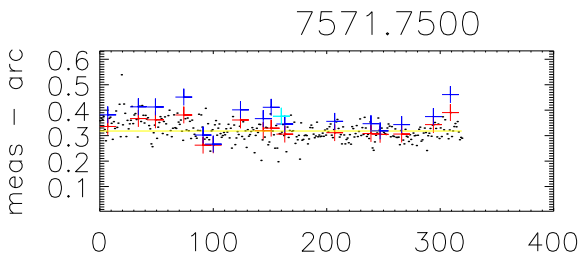

6300.3040
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

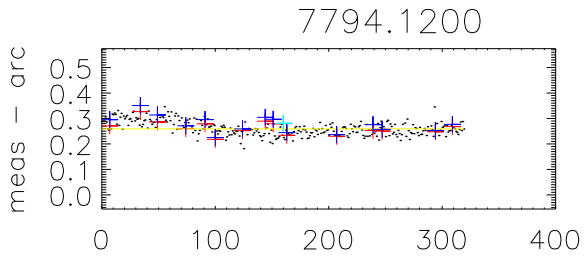

6363.7760
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

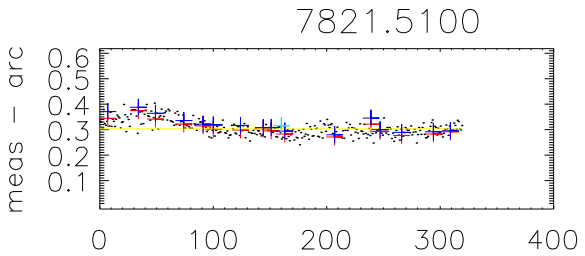

6553.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

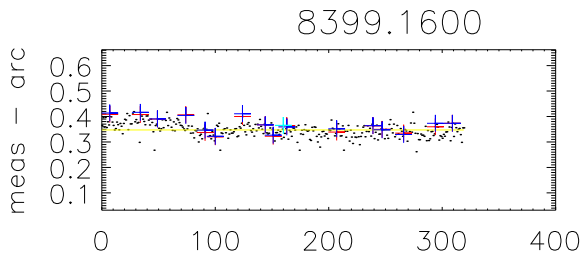

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

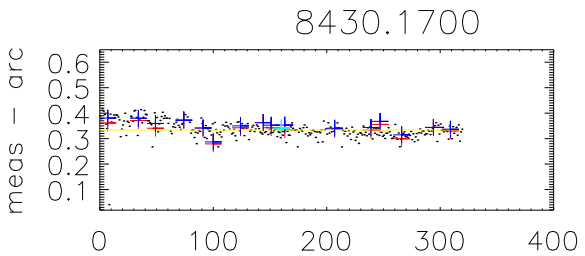

6949.0300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

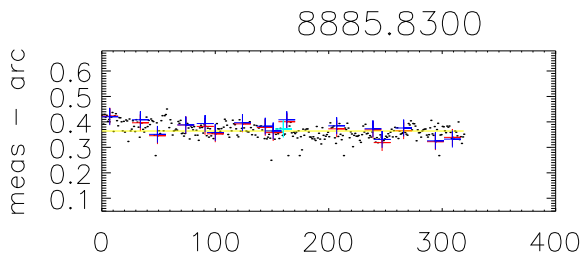

7571.7500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

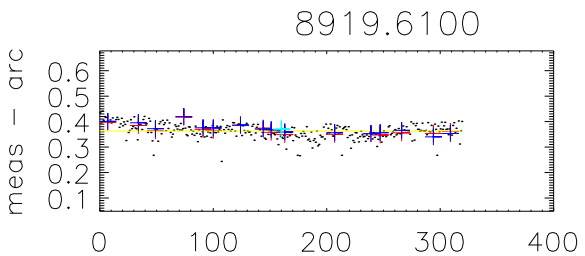

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

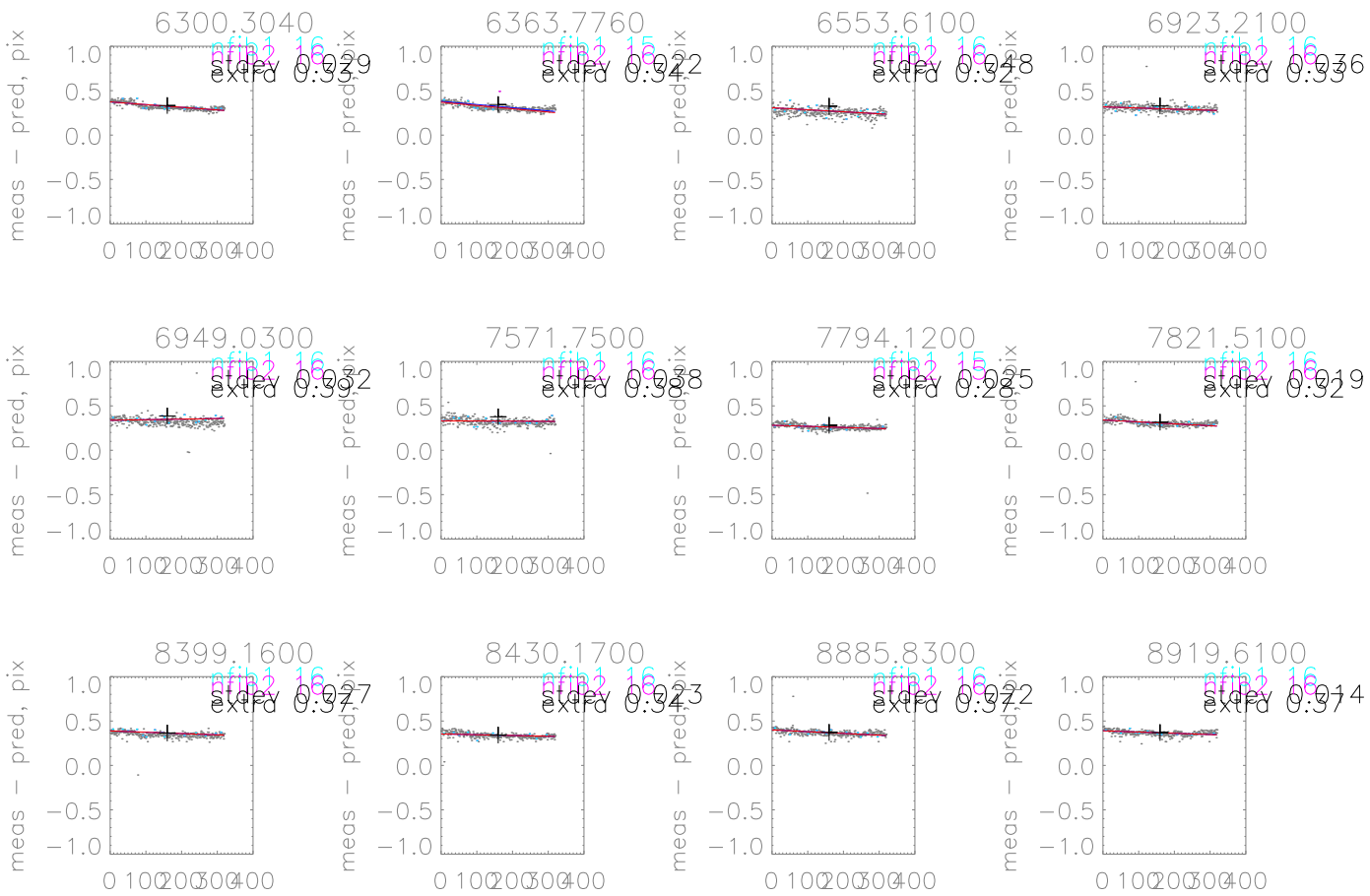

7821.5100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

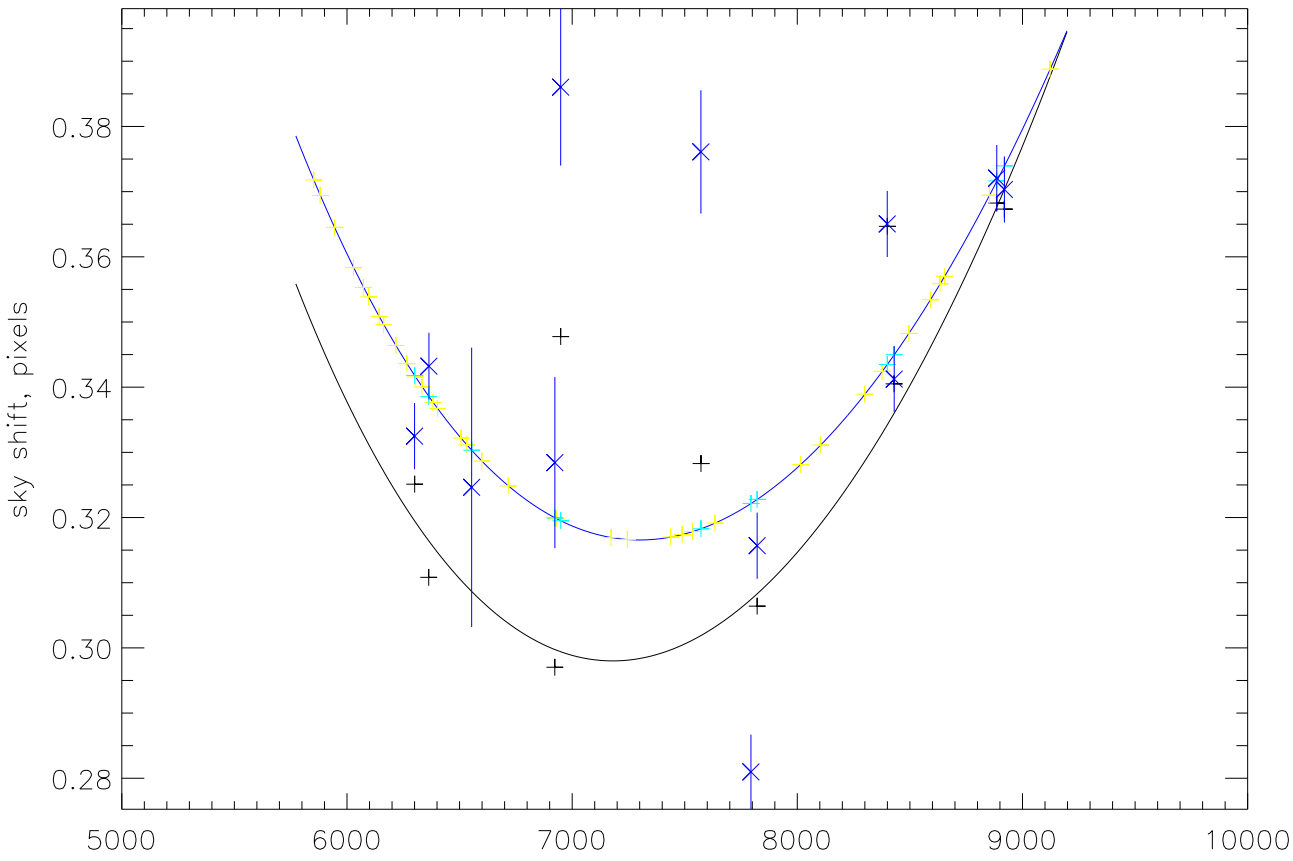

8399.1600
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

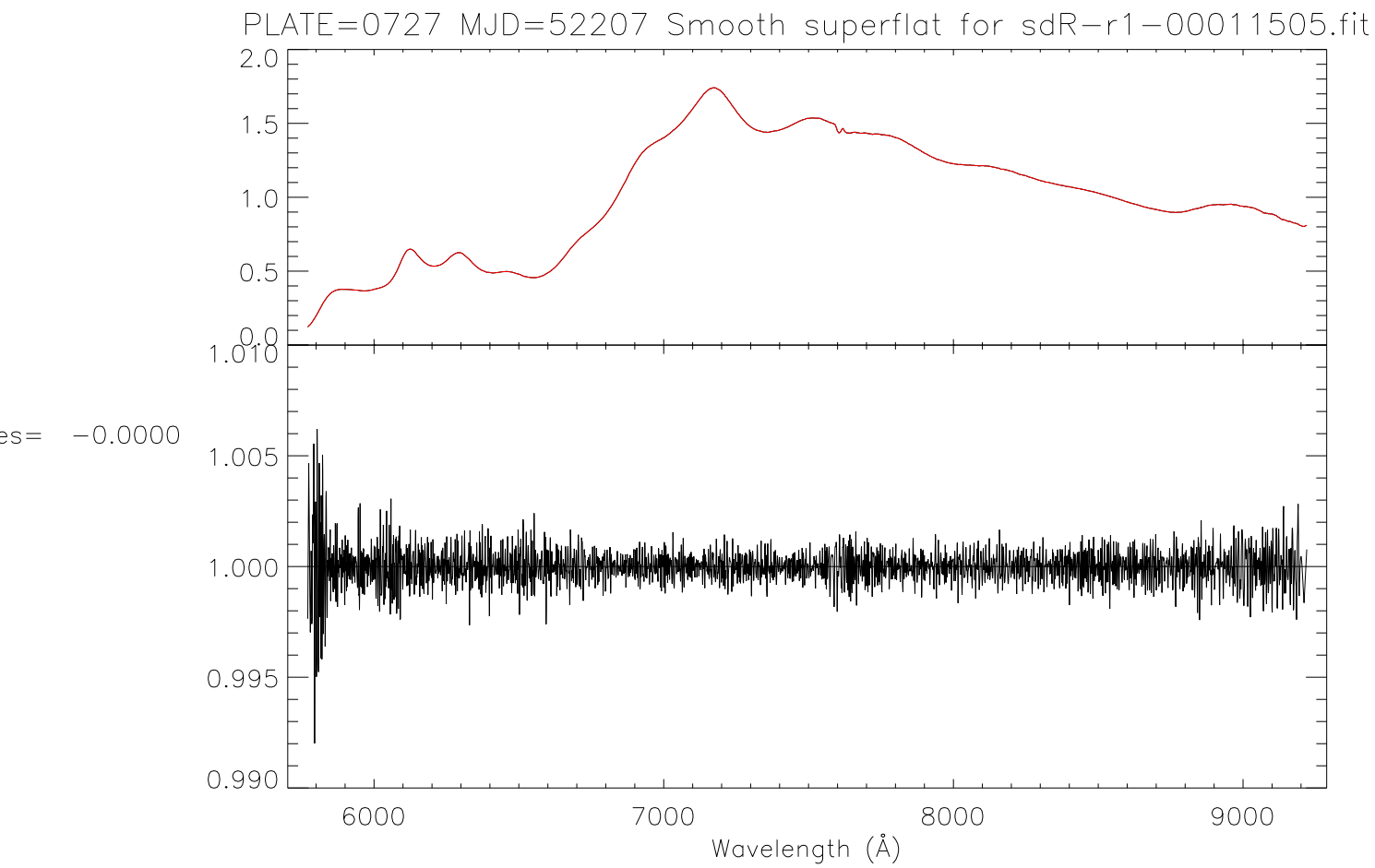

8430.1700
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

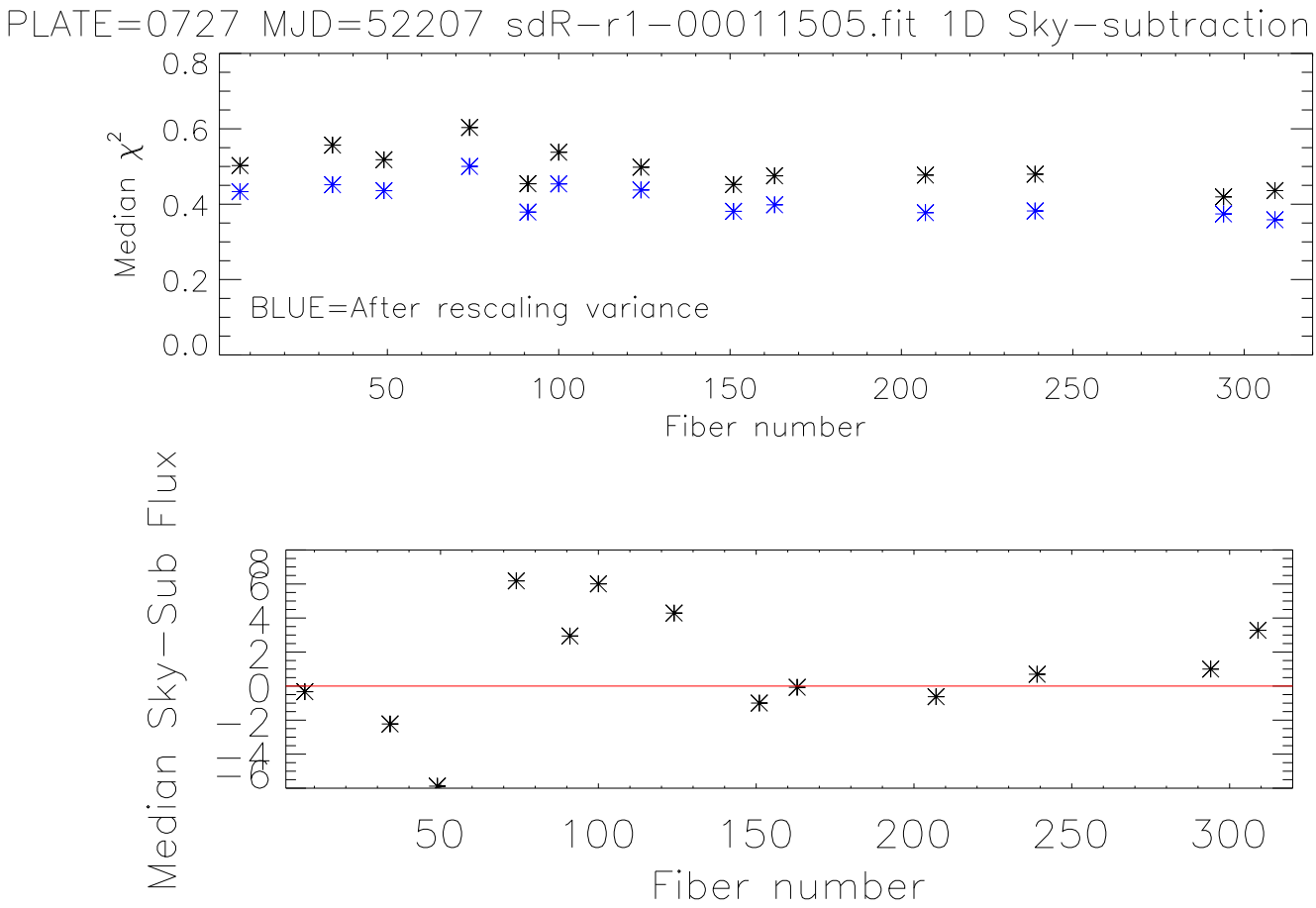

8885.8300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


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

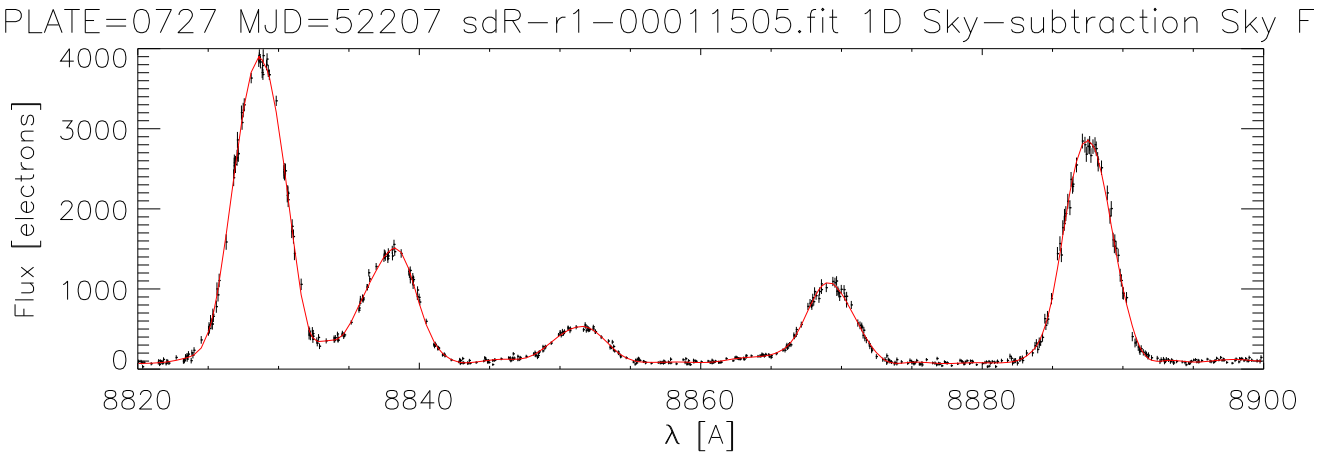

6300.3040
stdev 0.029
extra 0.33
6363.7760
stdev 0.022
extra 0.34
6553.6100
stdev 0.048
extra 0.32
6923.2100
stdev 0.036
extra 0.33
6949.0300
stdev 0.032
extra 0.32
7571.7500
stdev 0.038
extra 0.38
7794.1200
stdev 0.025
extra 0.28
7821.5100
stdev 0.019
extra 0.32
8399.1600
stdev 0.027
extra 0.37
8430.1700
stdev 0.023
extra 0.34
8885.8300
stdev 0.022
extra 0.37
8919.6100
stdev 0.014
extra 0.37
meas − pred, pix
mfib1 16
mfib2 16
mfib1 15
mfib2 15

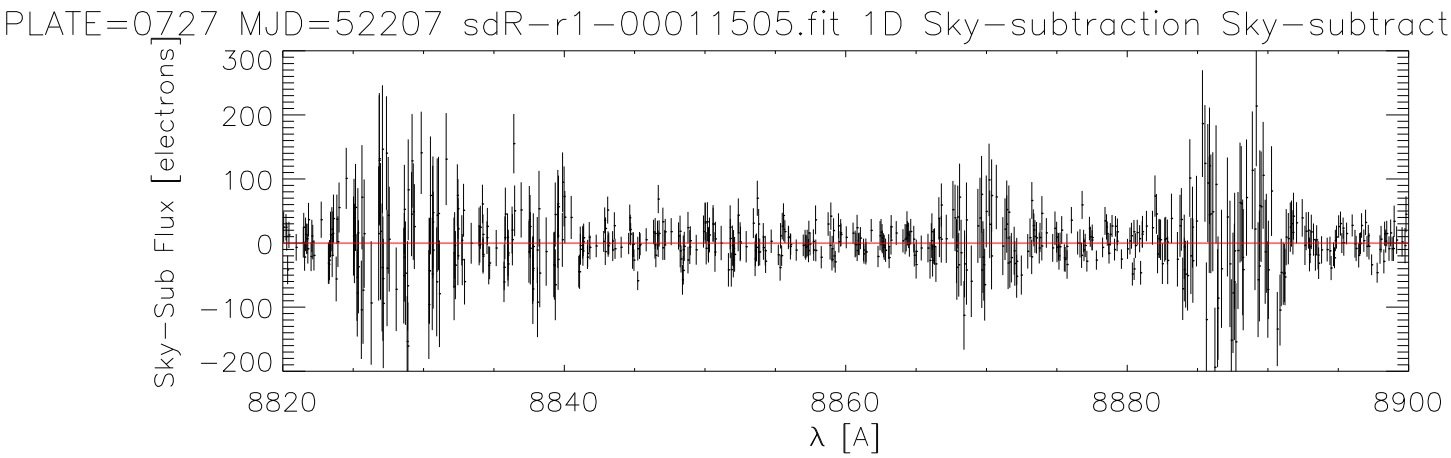

sky shift, pixels
0.38
0.36
0.34
0.32
0.30
0.28
5000
6000
7000
8000
9000
10000

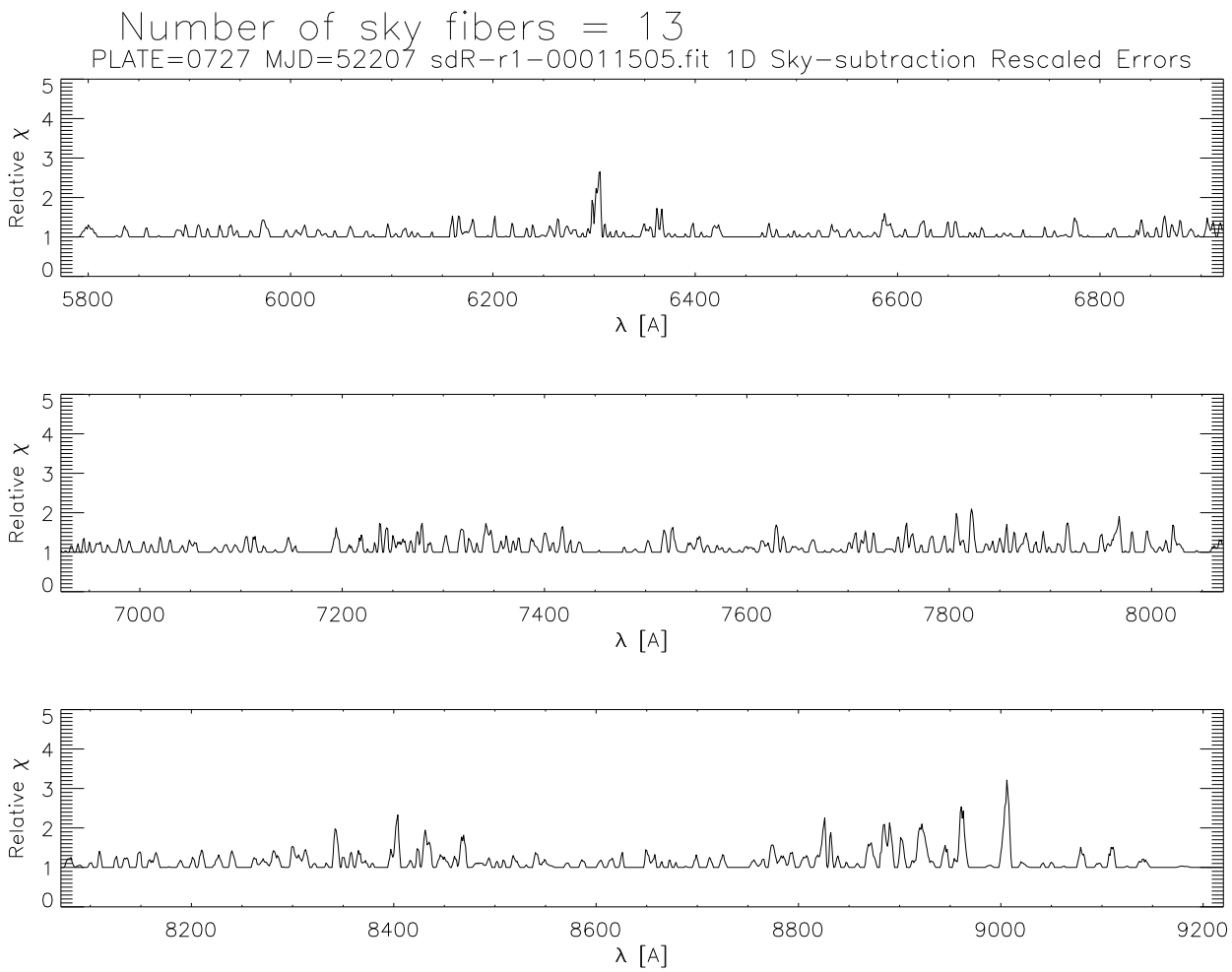

PLATE=0727 MJD=52207 Smooth superflat for sdR-r1-00011505.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

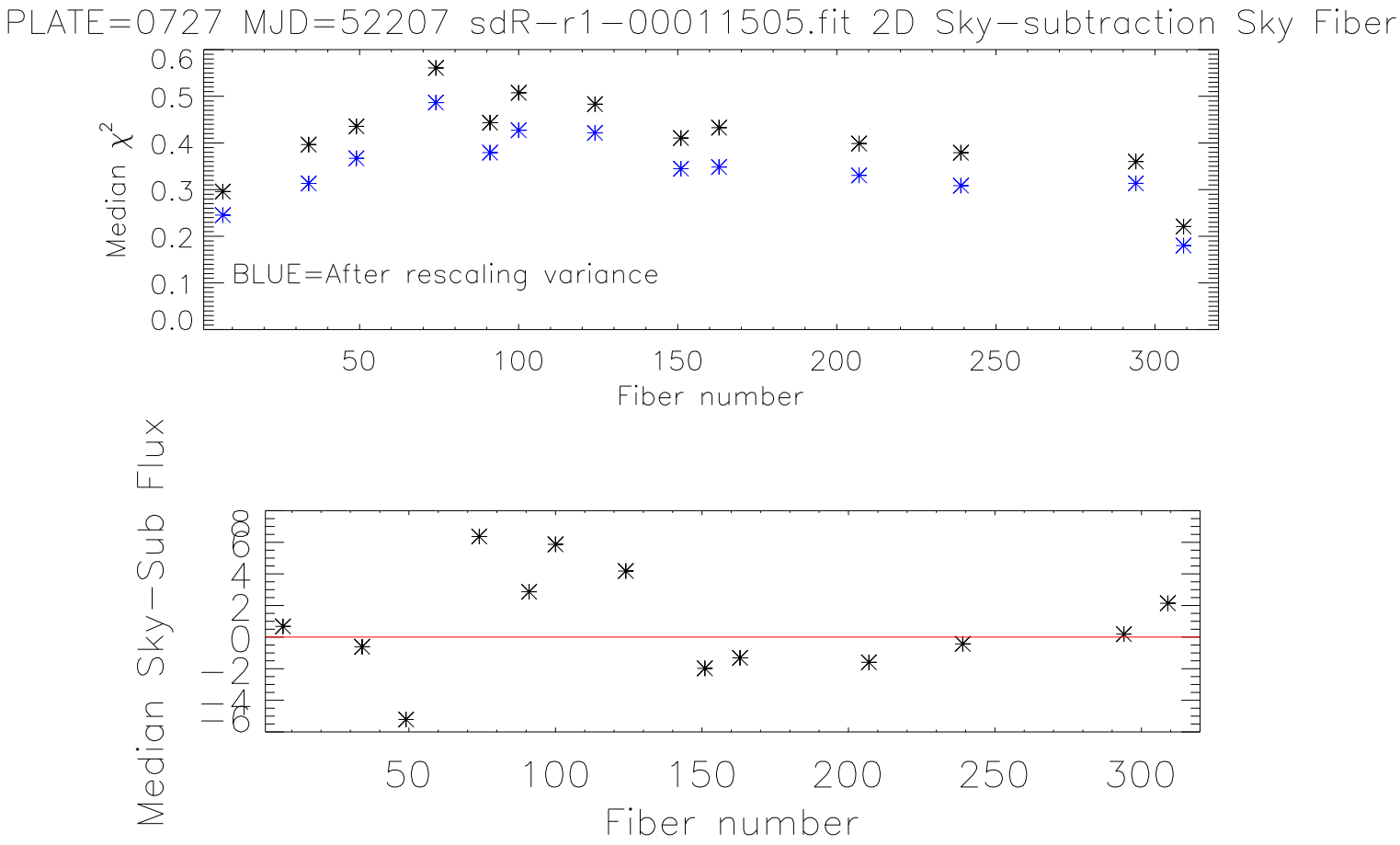

PLATE=0727 MJD=52207 sdR-r1-00011505.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

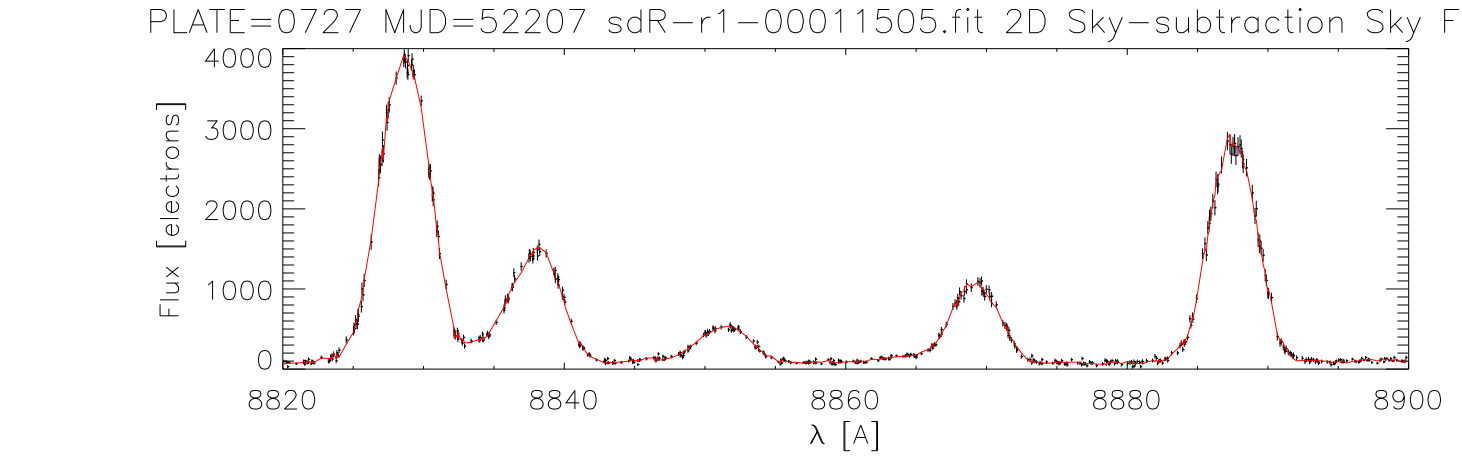
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

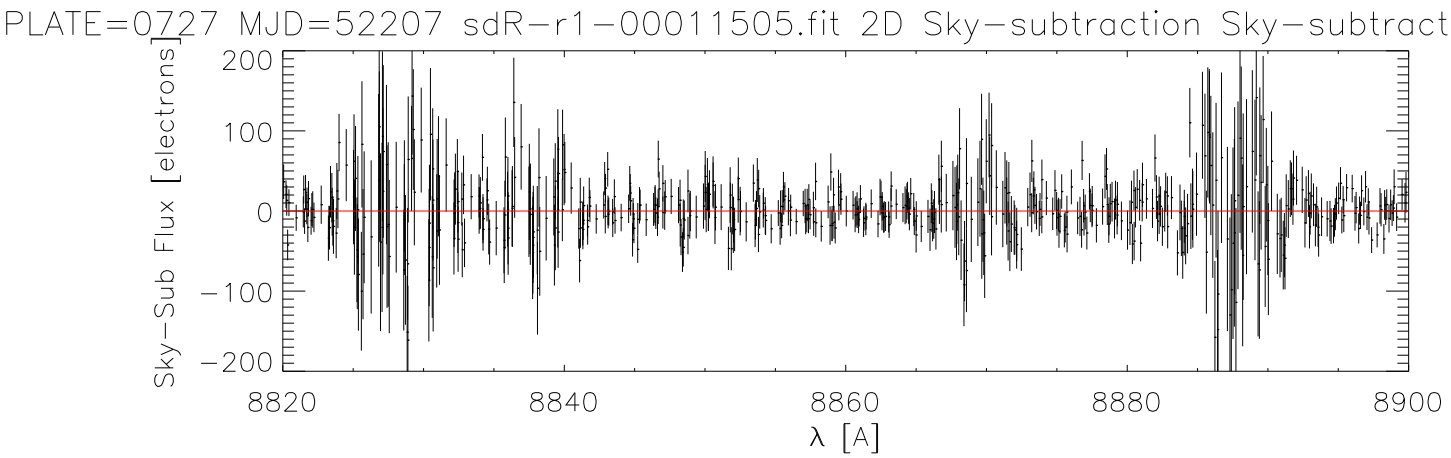

PLATE=0727 MJD=52207 sdR-r1-00011505.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

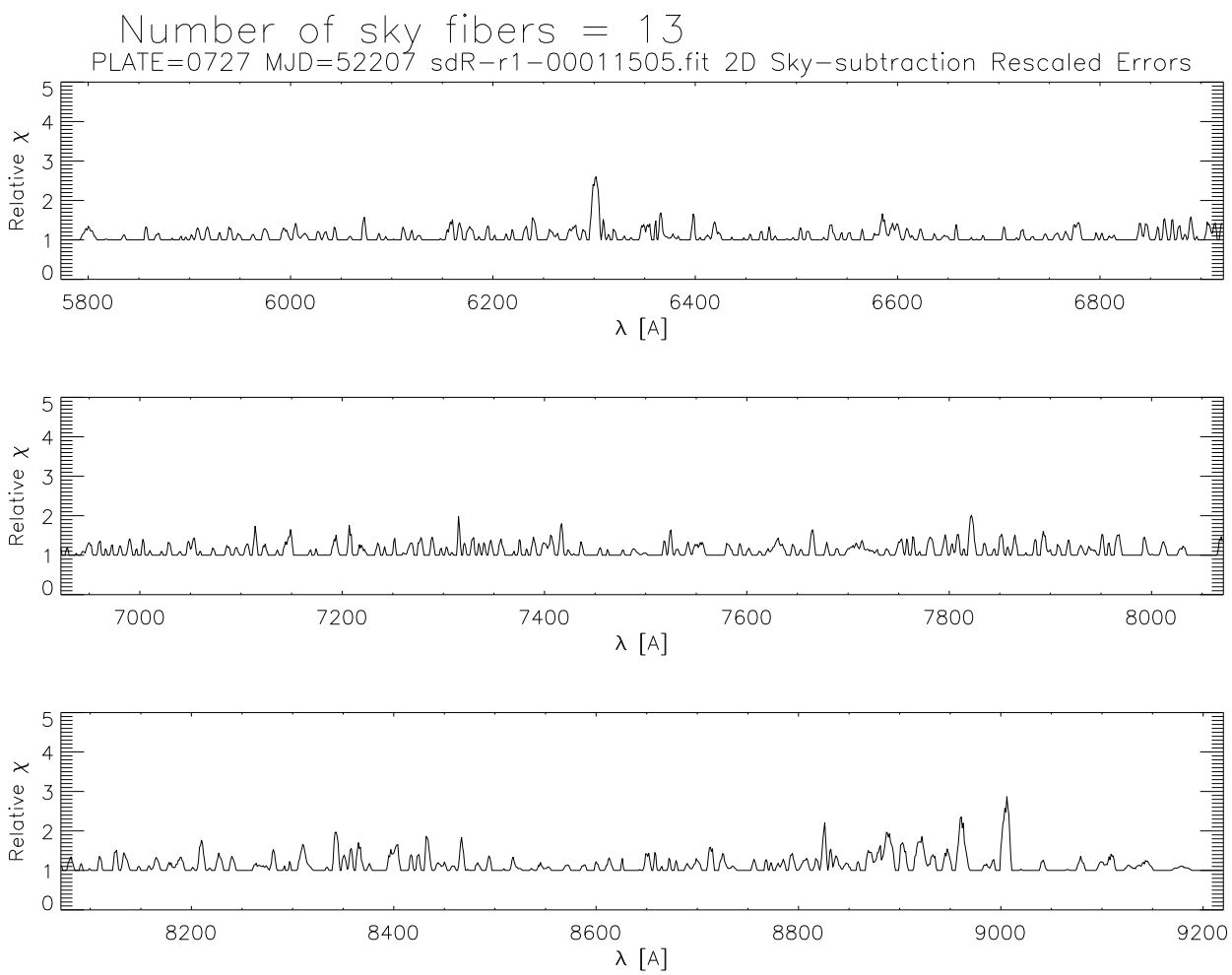

PLATE=0727 MJD=52207 sdR-r1-00011505.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

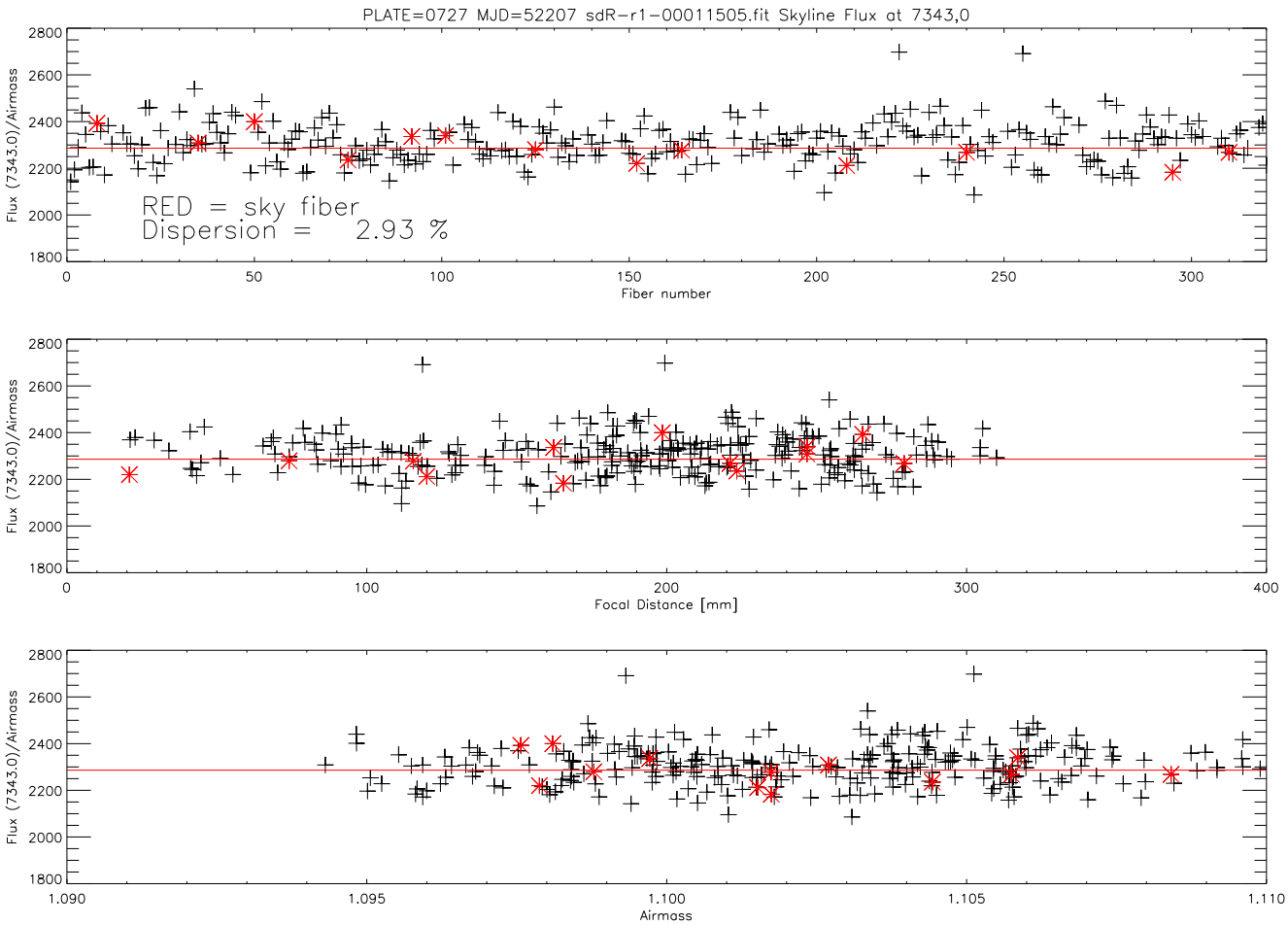

Number of sky fibers = 13
PLATE=0727 MJD=52207 sdR-r1-00011505.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

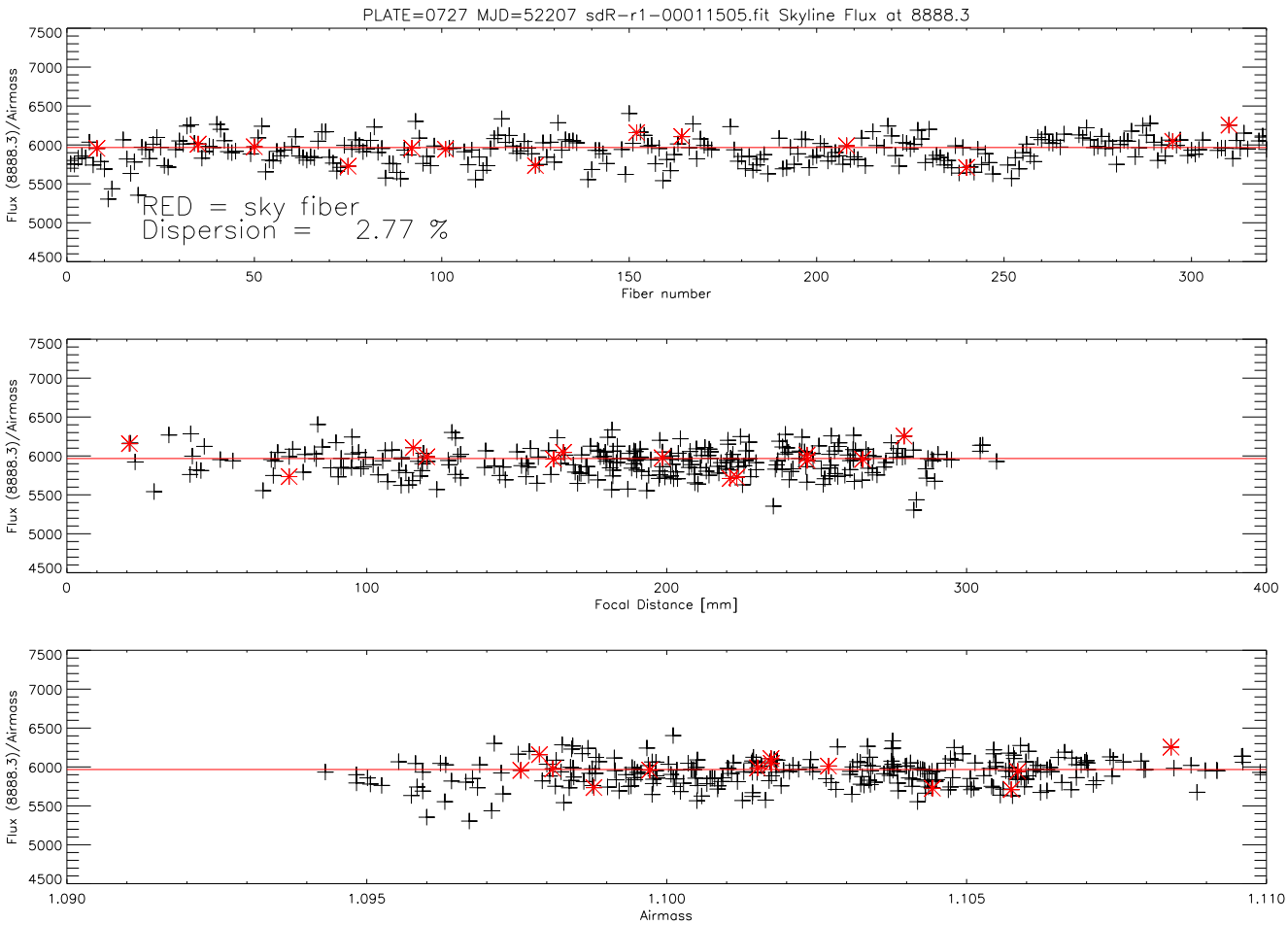

PLATE=0727 MJD=52207 sdR-r1-00011505.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-11
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

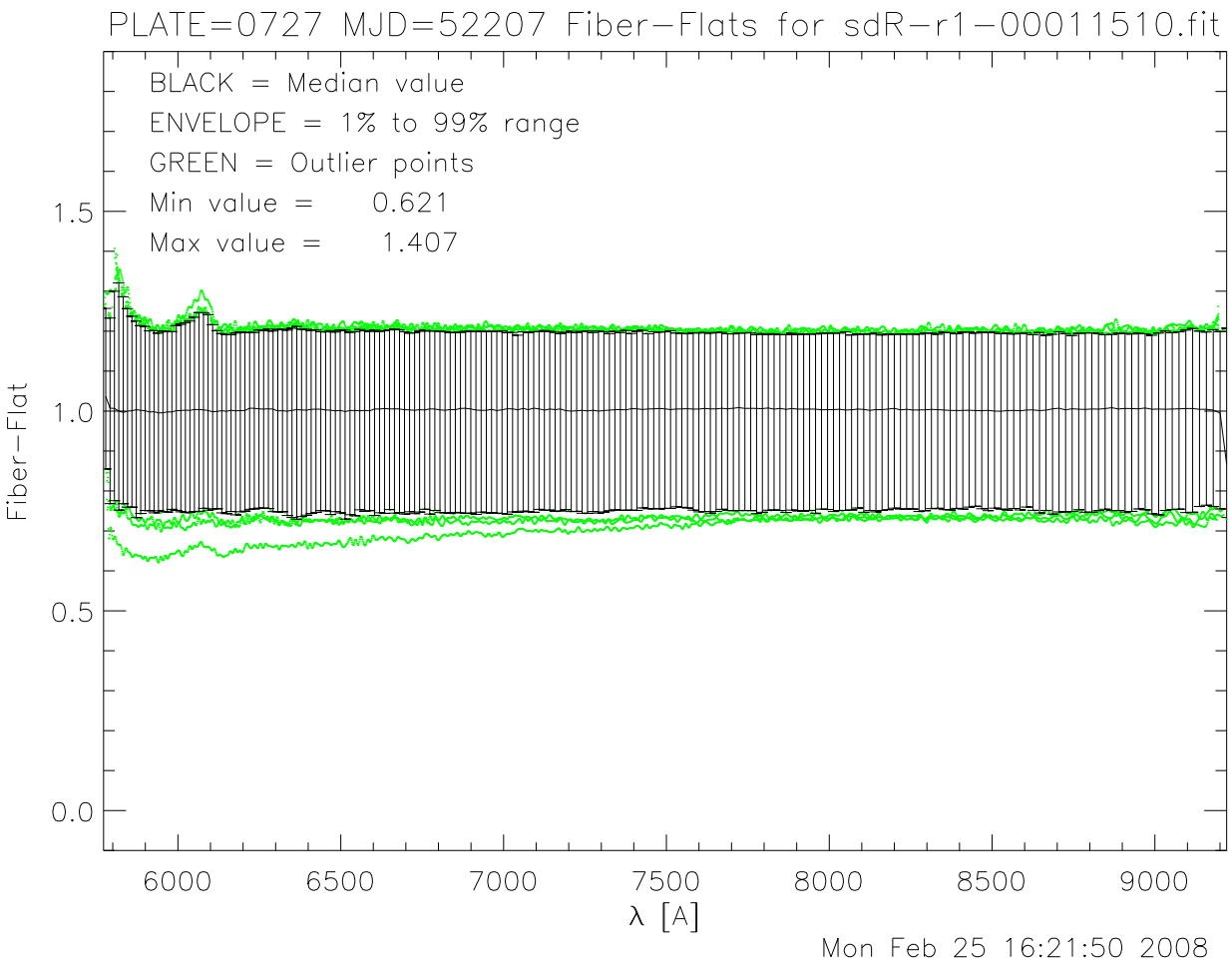

PLATE=0727 MJD=52207 sdR-r1-00011505.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

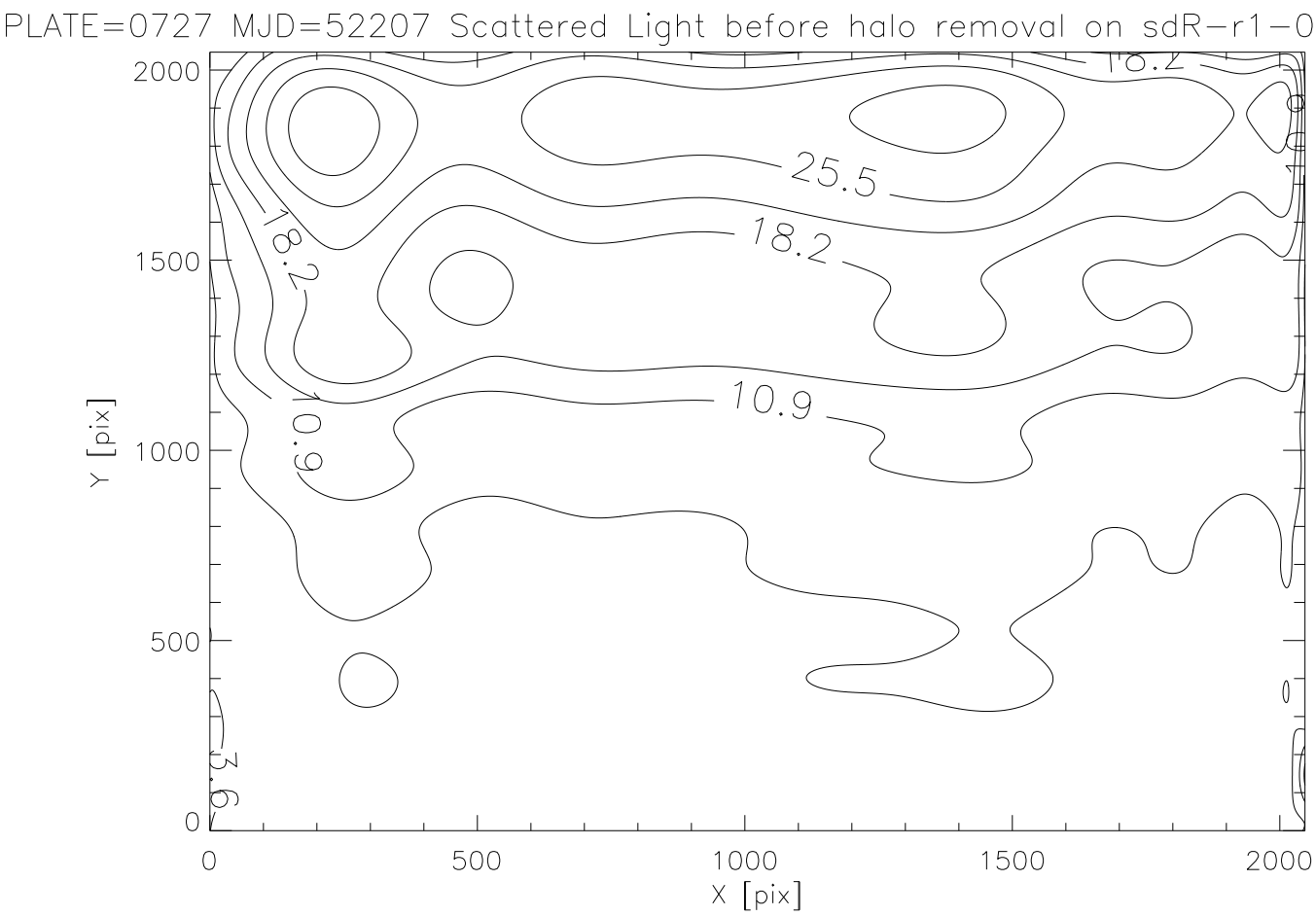

PLATE=0727 MJD=52207 sdR-r1-00011505.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

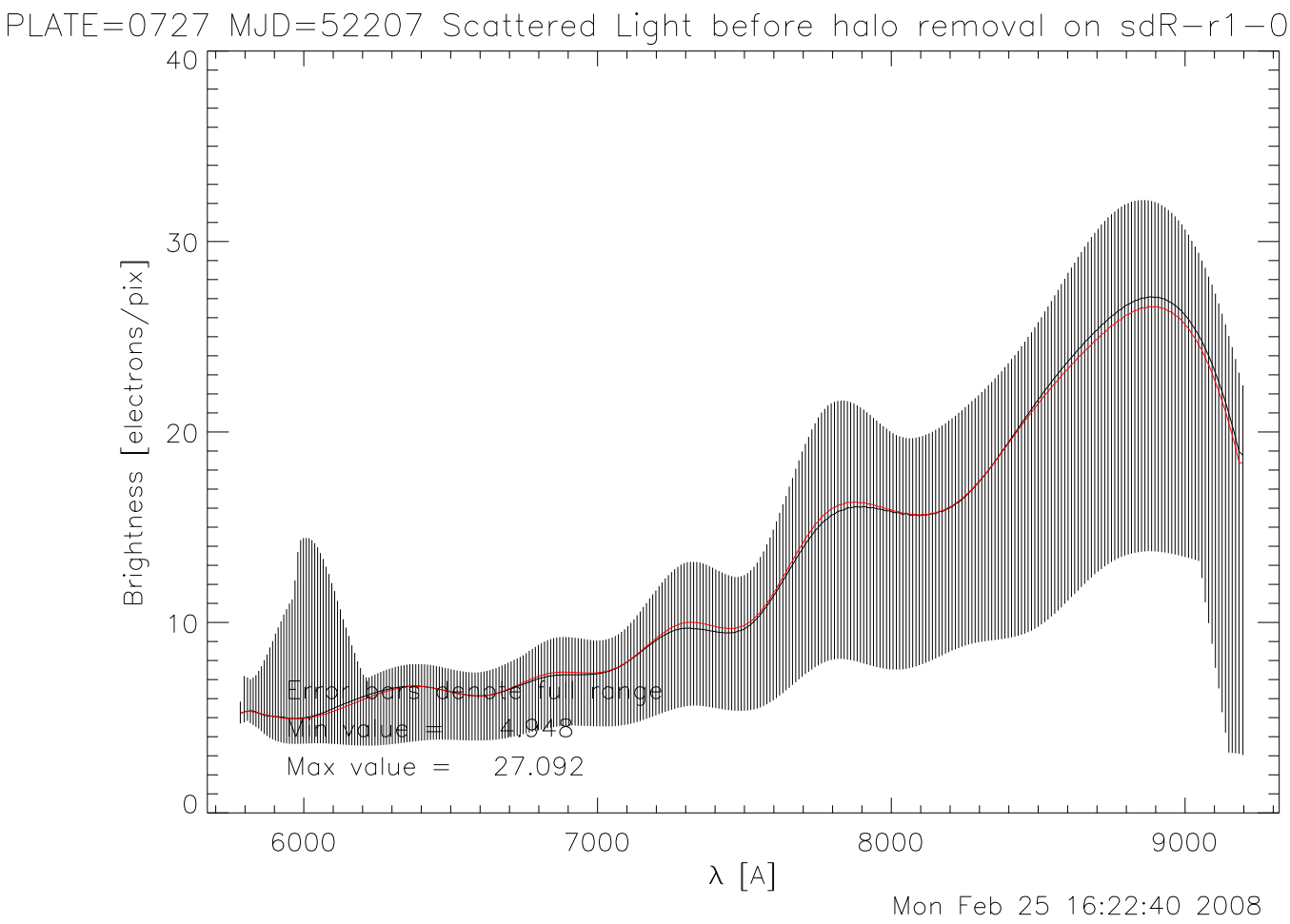

Number of sky fibers = 13
PLATE=0727 MJD=52207 sdR-r1-00011505.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

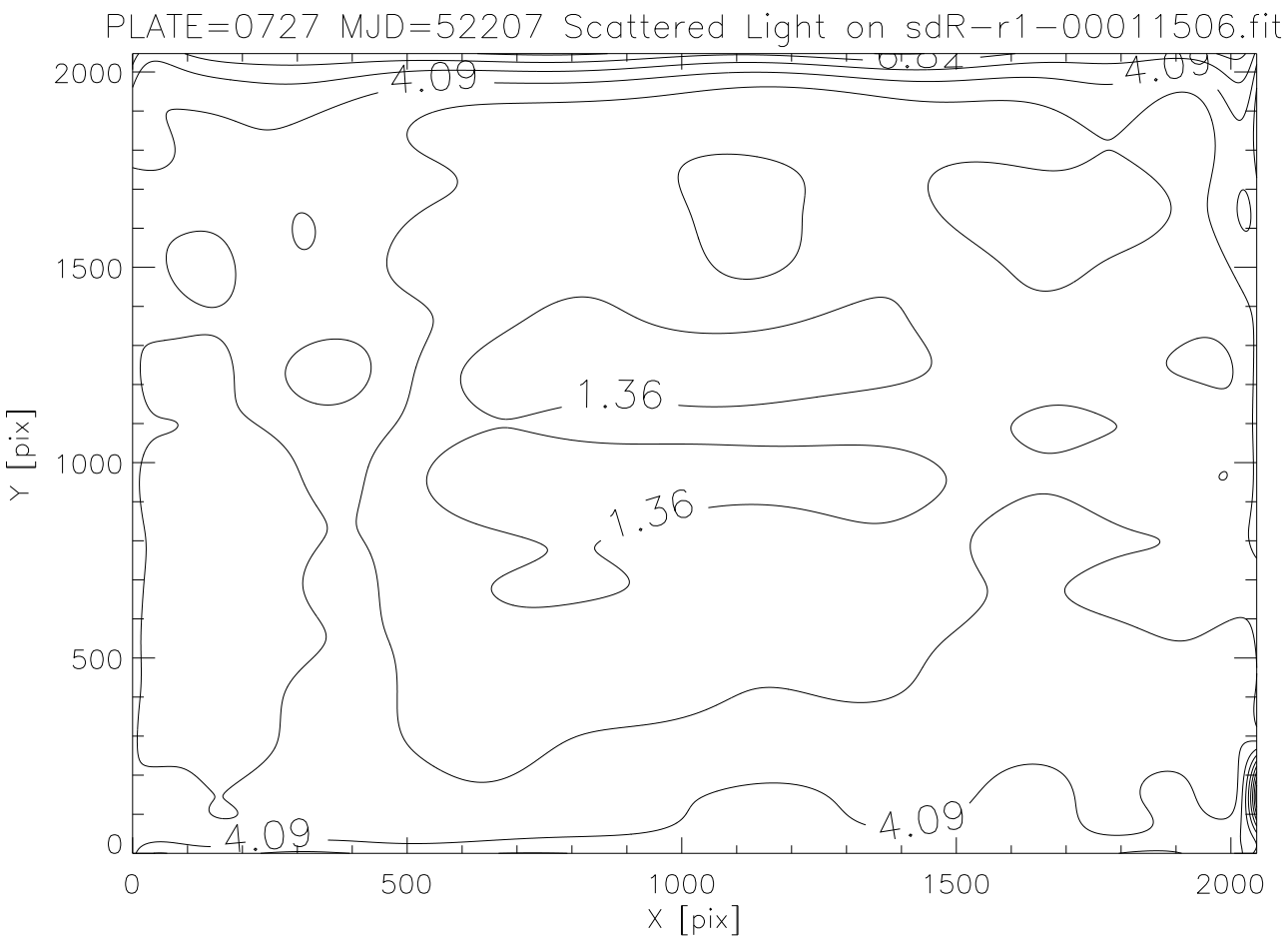

PLATE=0727 MJD=52207 sdR-r1-00011505.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.93 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

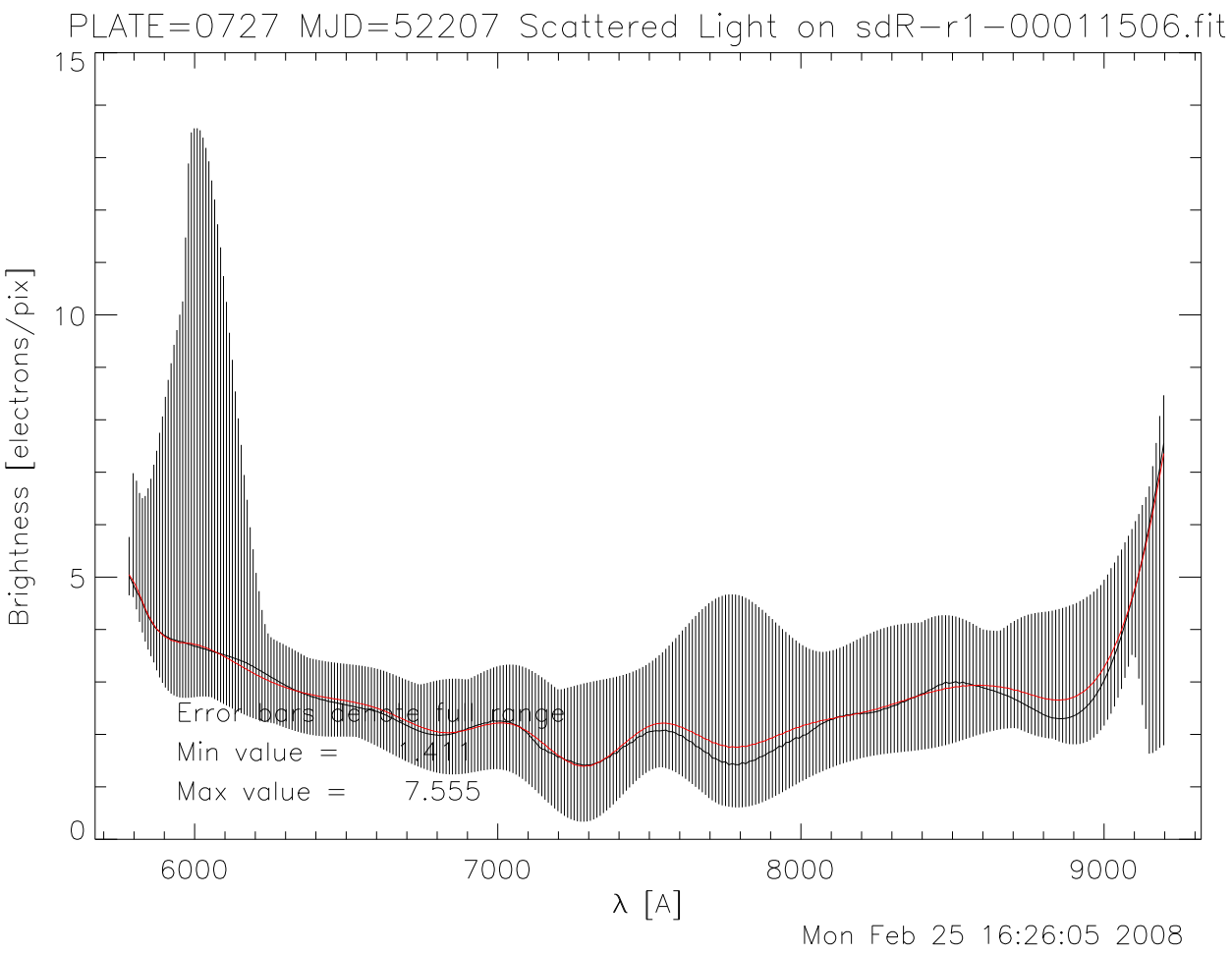

PLATE=0727 MJD=52207 sdR-r1-00011505.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.77 %
Fiber number
Focal Distance [mm]
Airmass

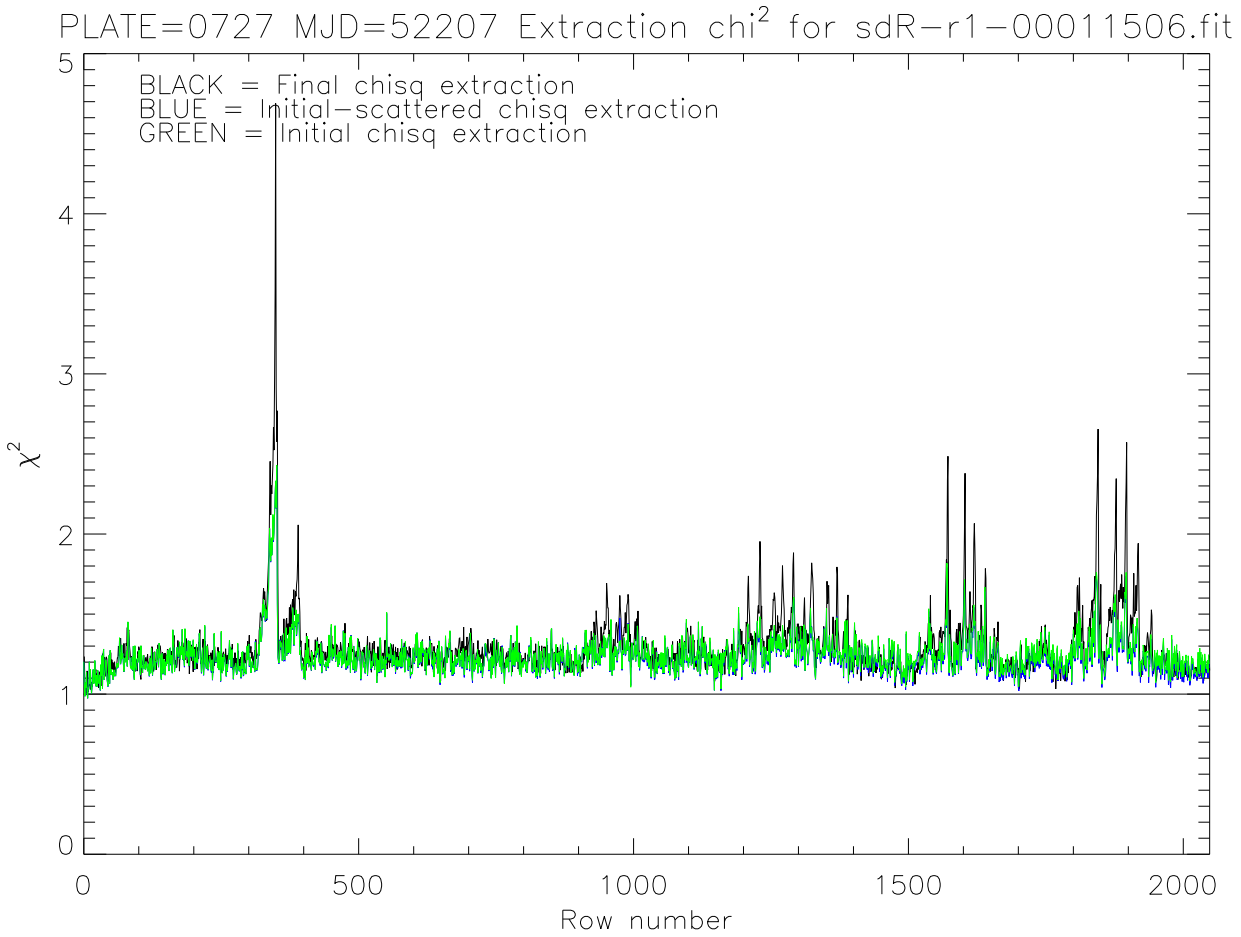

PLATE=0727 MJD=52207 Fiber−Flats for sdR−r1−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.621
Max value = 1.407
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 16:21:50 2008

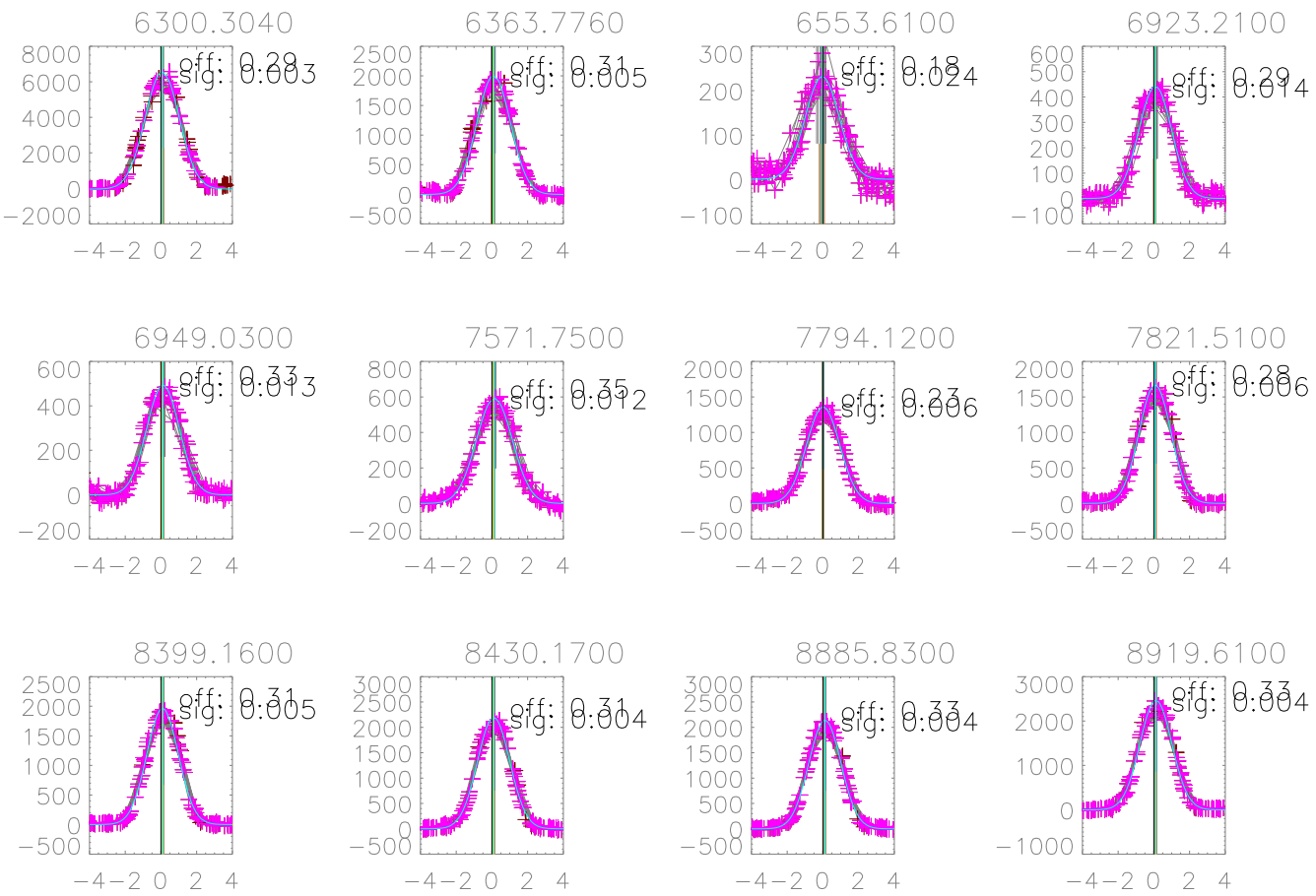

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r1-00011506.fi
18.2
25.5
18.2
18.2
10.9
10.9
3.6
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

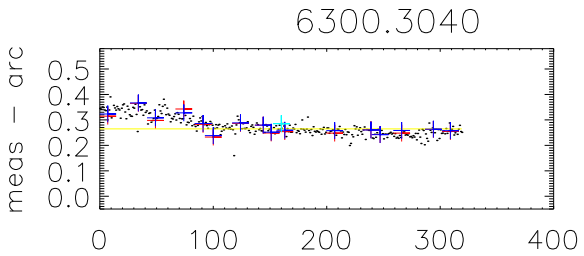

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r1-00011506.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.948
Max value = 27.092
Mon Feb 25 16:22:40 2008

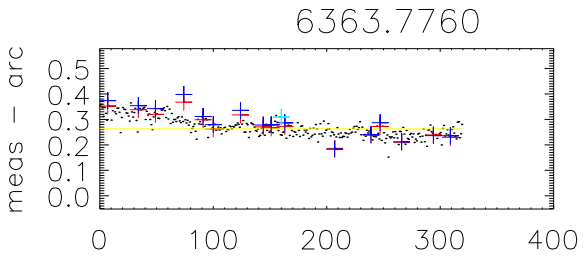

PLATE=0727 MJD=52207 Scattered Light on sdR−r1−00011506.fit
4.09
4.09
1.36
1.36
4.09
4.09
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

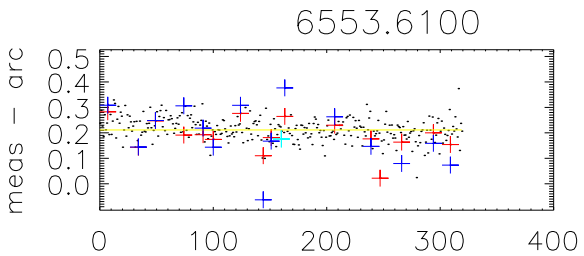

PLATE=0727 MJD=52207 Scattered Light on sdR-r1-00011506.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 1.411
Max value = 7.555
Mon Feb 25 16:26:05 2008

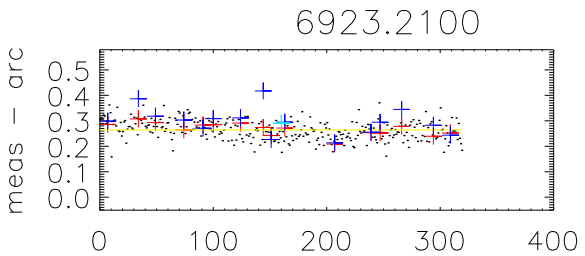

PLATE=0727 MJD=52207 Extraction chi^2 for sdR−r1−00011506.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

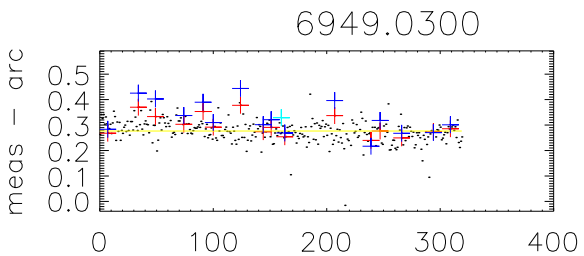

6300.3040
off: 0.28
sig: 0.003
6363.7760
off: 0.31
sig: 0.005
6553.6100
off: 0.18
sig: 0.024
6923.2100
off: 0.29
sig: 0.014
6949.0300
off: 0.33
sig: 0.013
7571.7500
off: 0.35
sig: 0.012
7794.1200
off: 0.23
sig: 0.006
7821.5100
off: 0.28
sig: 0.006
8399.1600
off: 0.31
sig: 0.005
8430.1700
off: 0.31
sig: 0.004
8885.8300
off: 0.33
sig: 0.004
8919.6100
off: 0.33
sig: 0.004

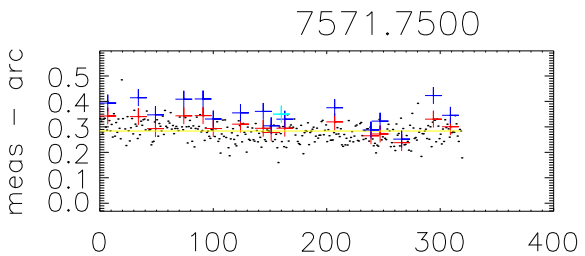

6300.3040
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

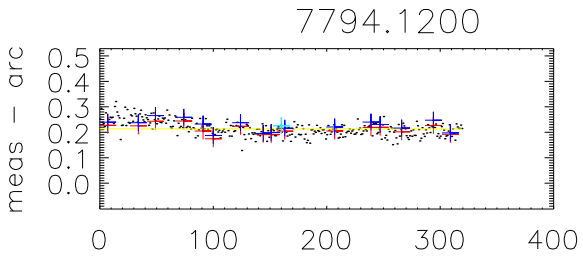

6363.7760
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

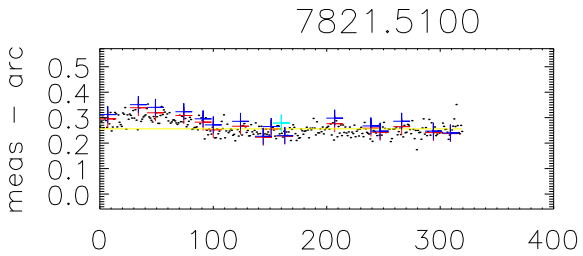

6553.6100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

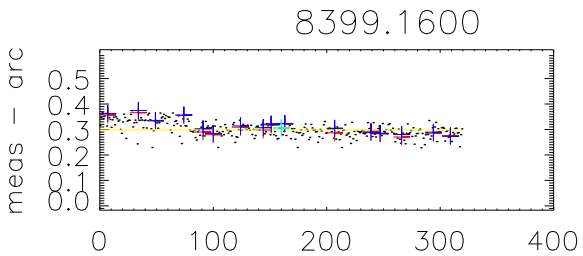

6923.2100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

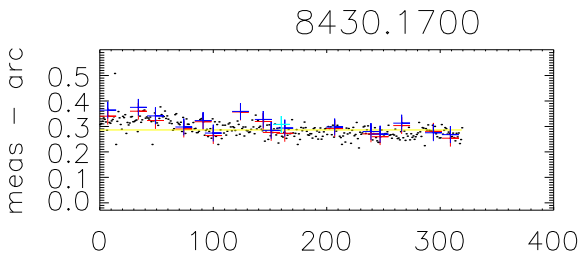

6949.0300
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

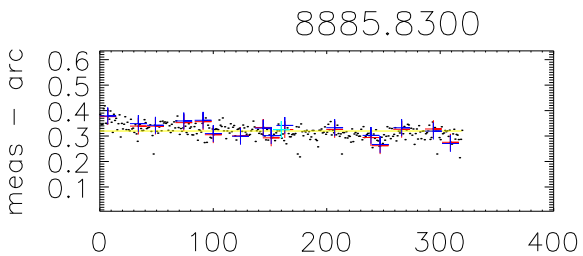

7571.7500
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

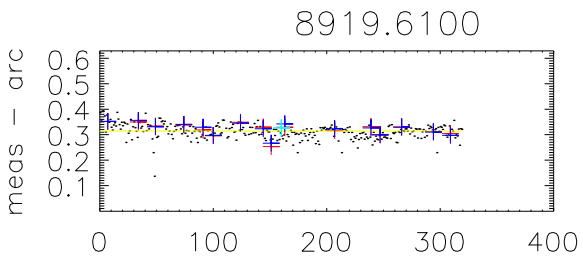

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

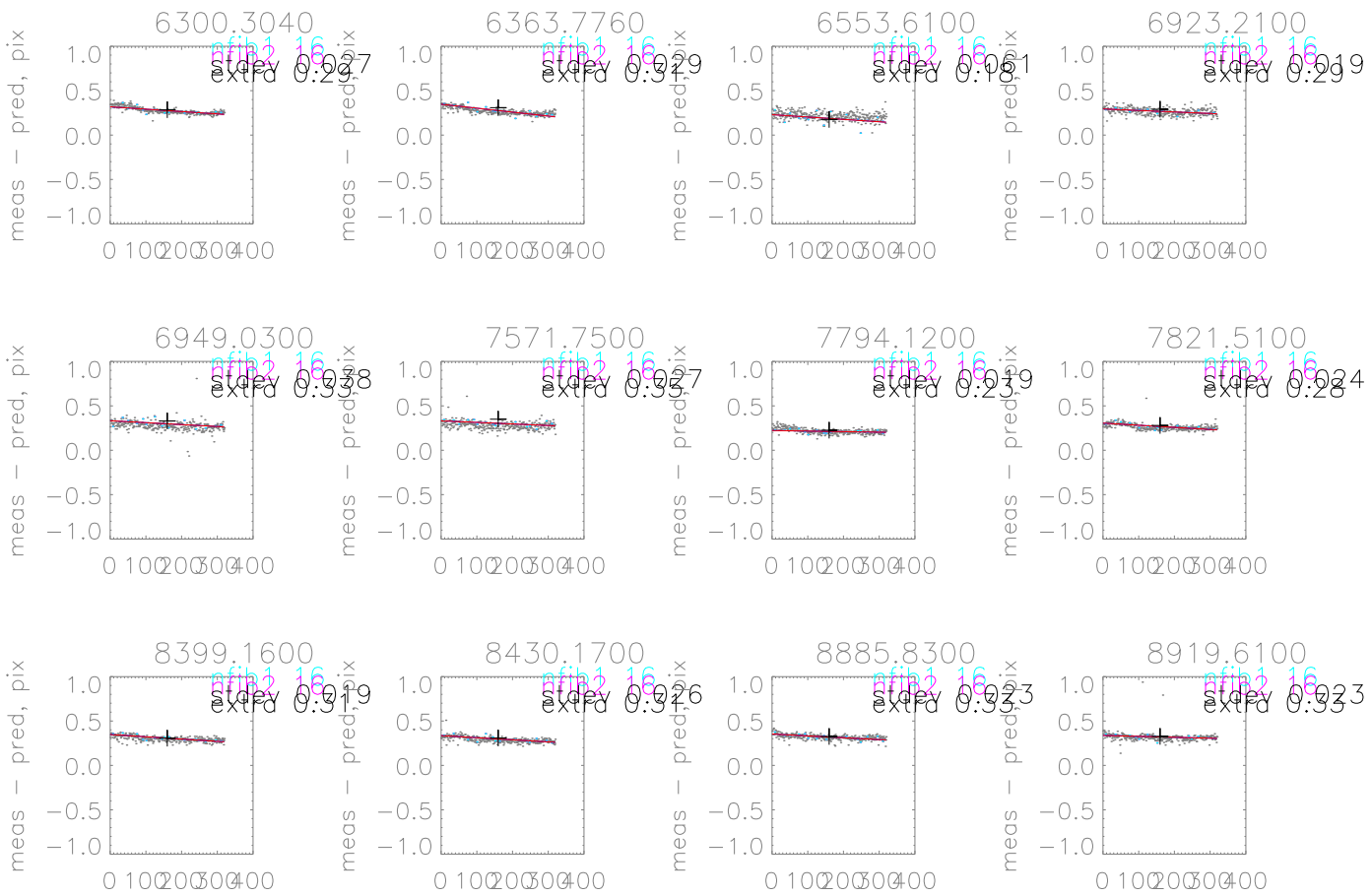

7821.5100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

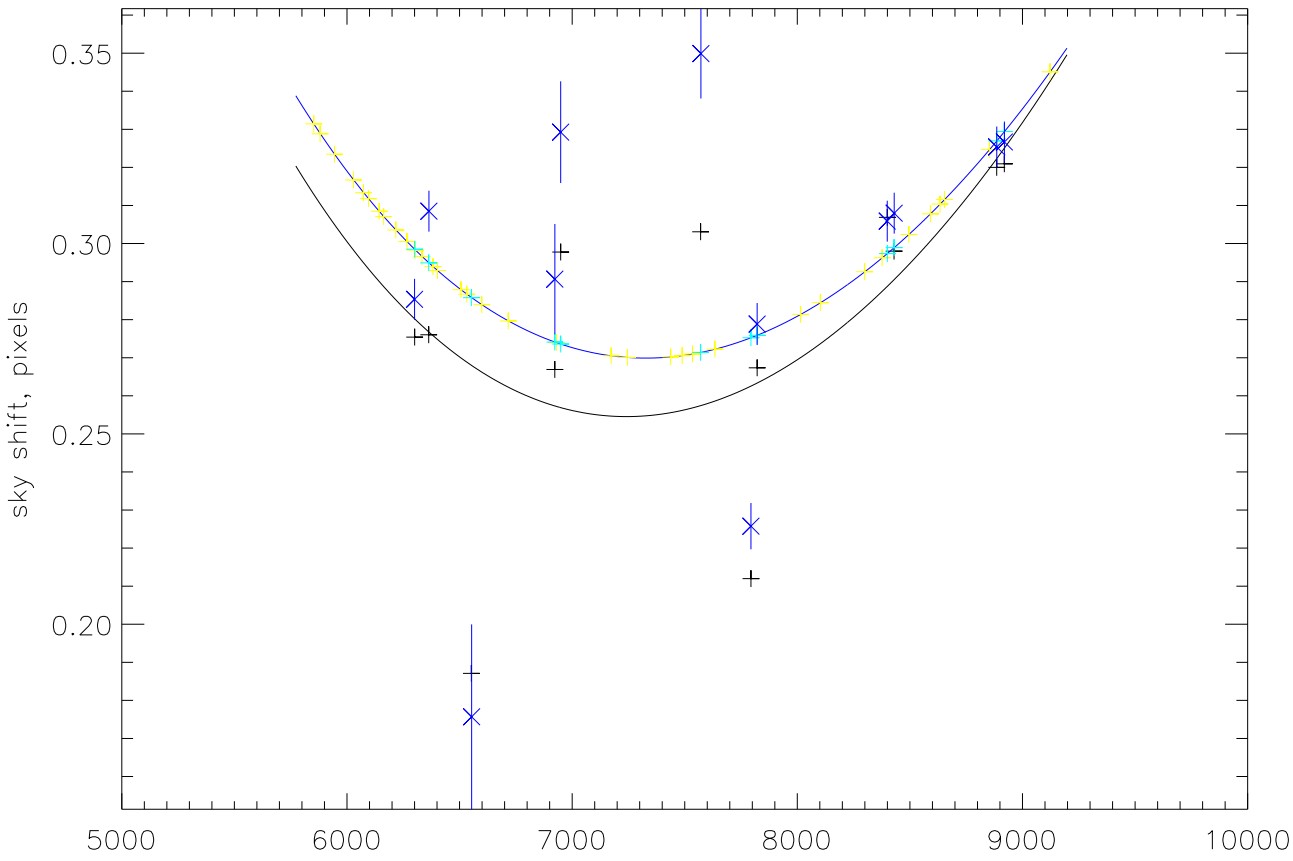

8399.1600
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

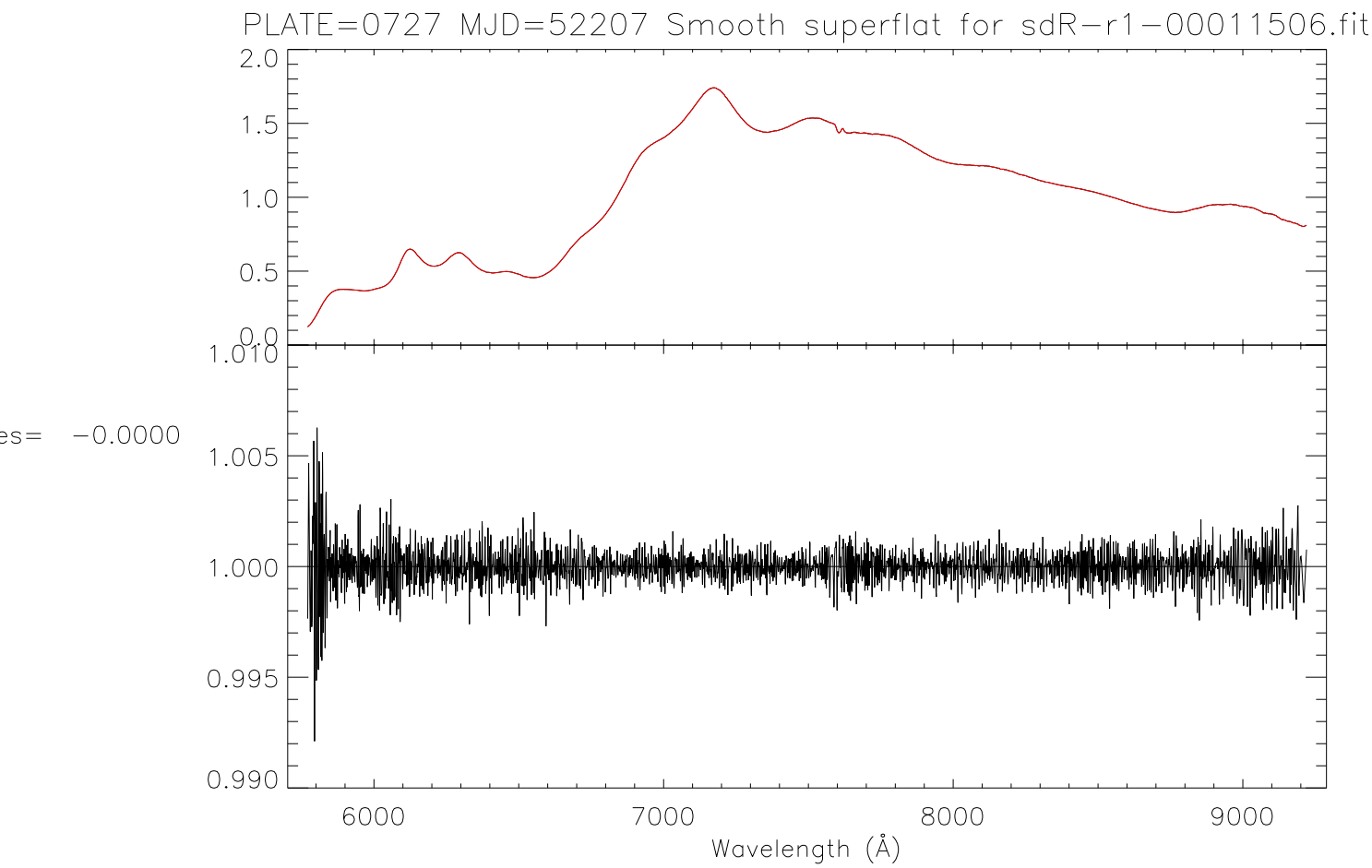

8430.1700
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400


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

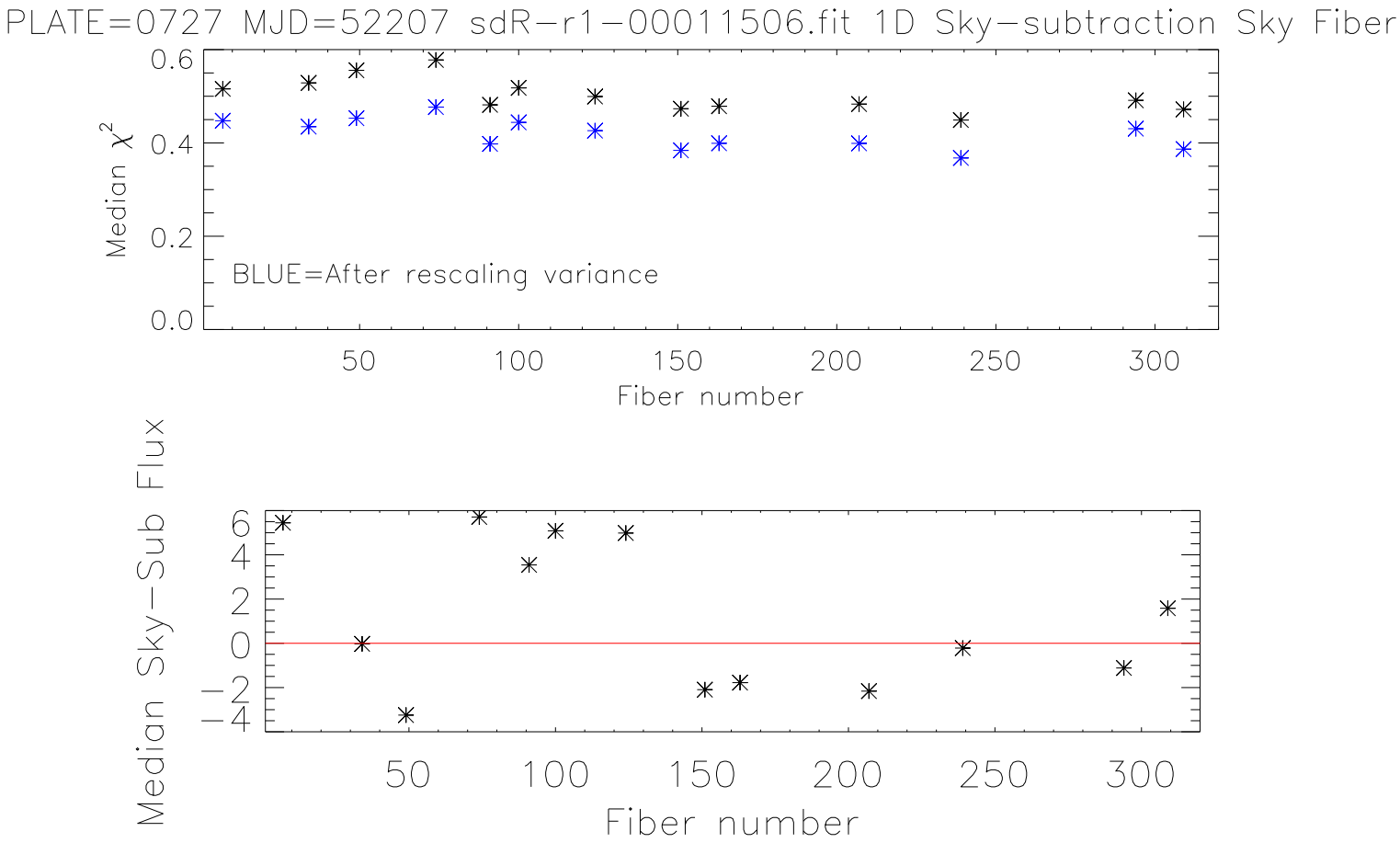

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

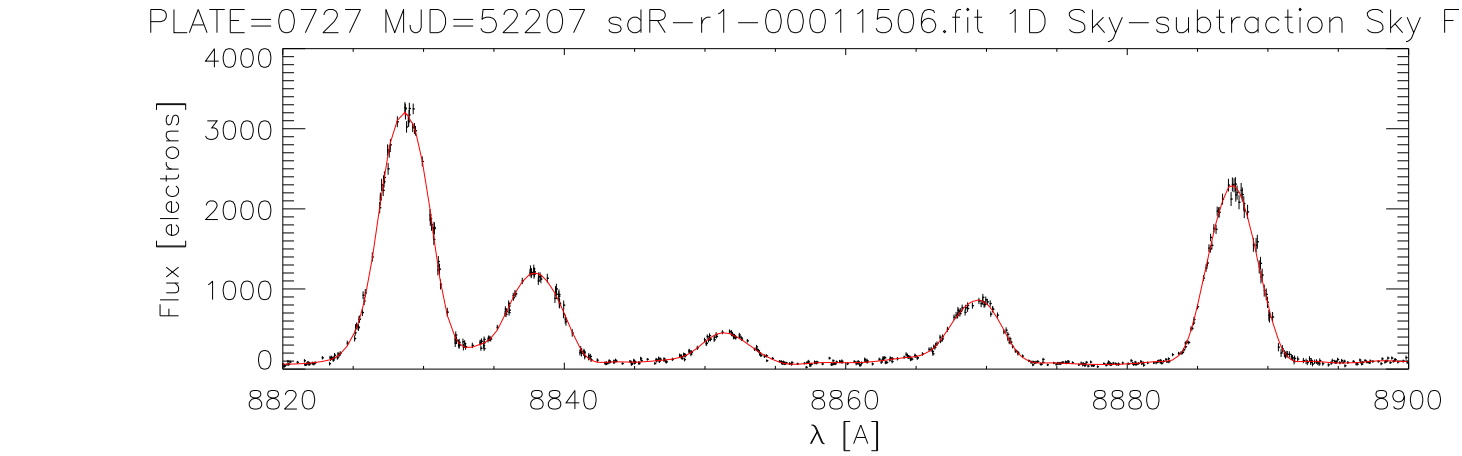

6300.3040
stdev 0.027
extra 0.29
6363.7760
stdev 0.029
extra 0.31
6553.6100
stdev 0.061
extra 0.18
6923.2100
stdev 0.019
extra 0.29
6949.0300
stdev 0.038
extra 0.33
7571.7500
stdev 0.027
extra 0.35
7794.1200
stdev 0.019
extra 0.23
7821.5100
stdev 0.024
extra 0.28
8399.1600
stdev 0.019
extra 0.31
8430.1700
stdev 0.026
extra 0.32
8885.8300
stdev 0.023
extra 0.33
8919.6100
stdev 0.023
extra 0.33
meas − pred, pix
mfhd2 16

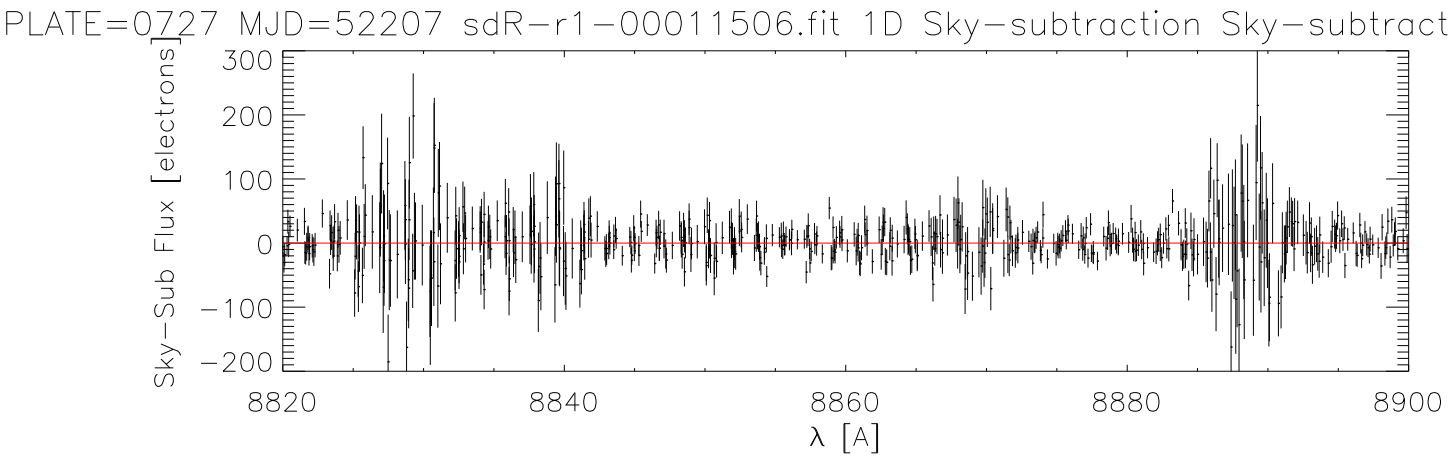

0.35
0.30
0.25
0.20
sky shift, pixels
5000
6000
7000
8000
9000
10000

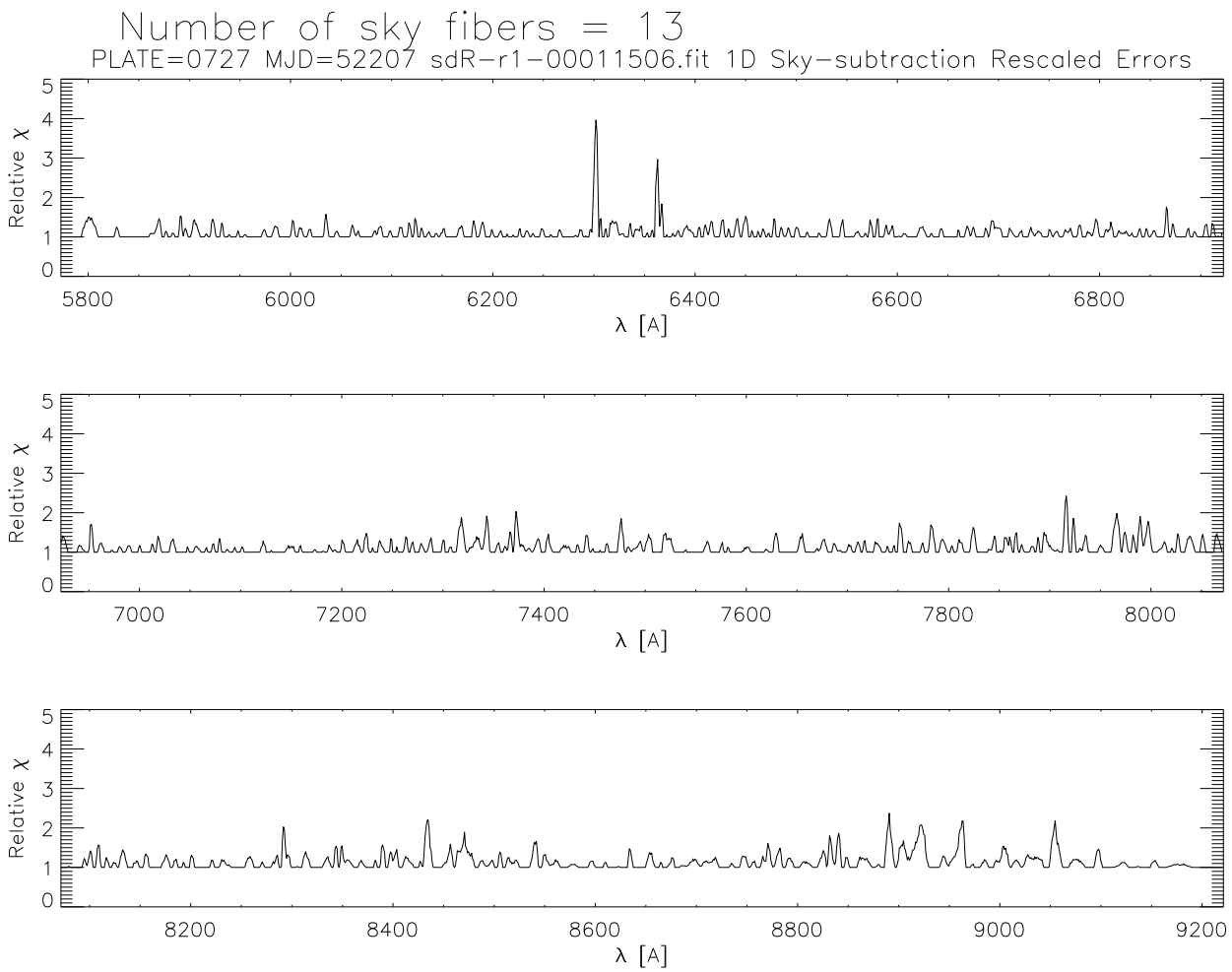

PLATE=0727 MJD=52207 Smooth superflat for sdR-r1-00011506.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

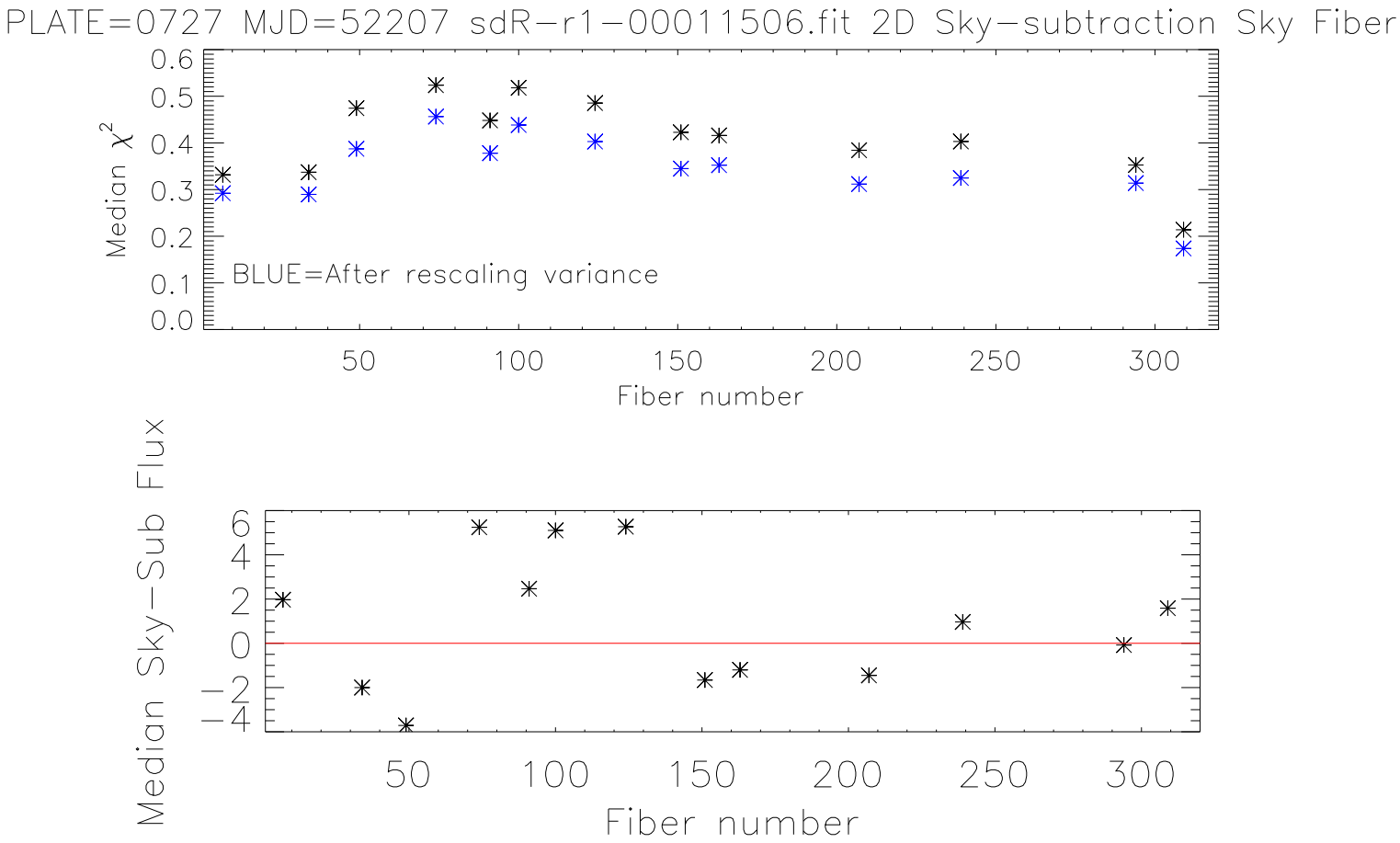
es= −0.0000

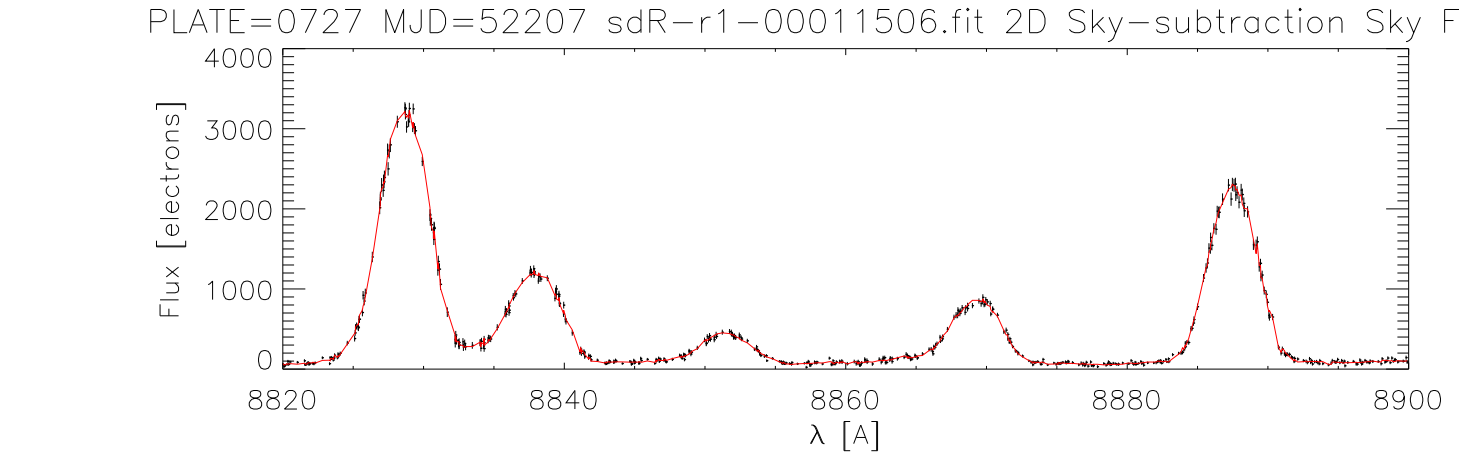

PLATE=0727 MJD=52207 sdR-r1-00011506.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

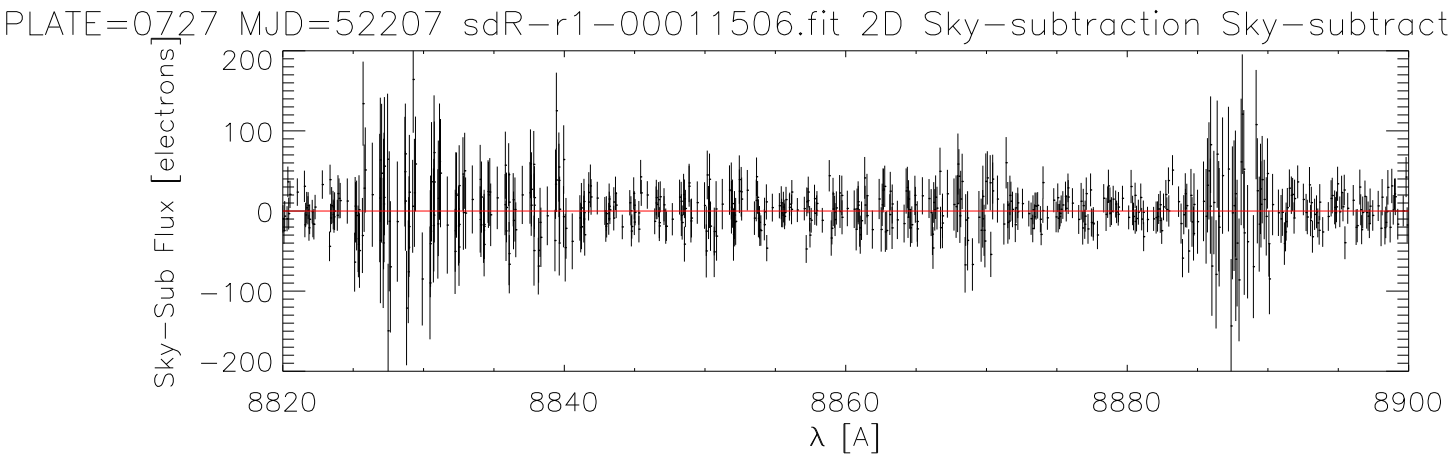

PLATE=0727 MJD=52207 sdR-r1-00011506.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

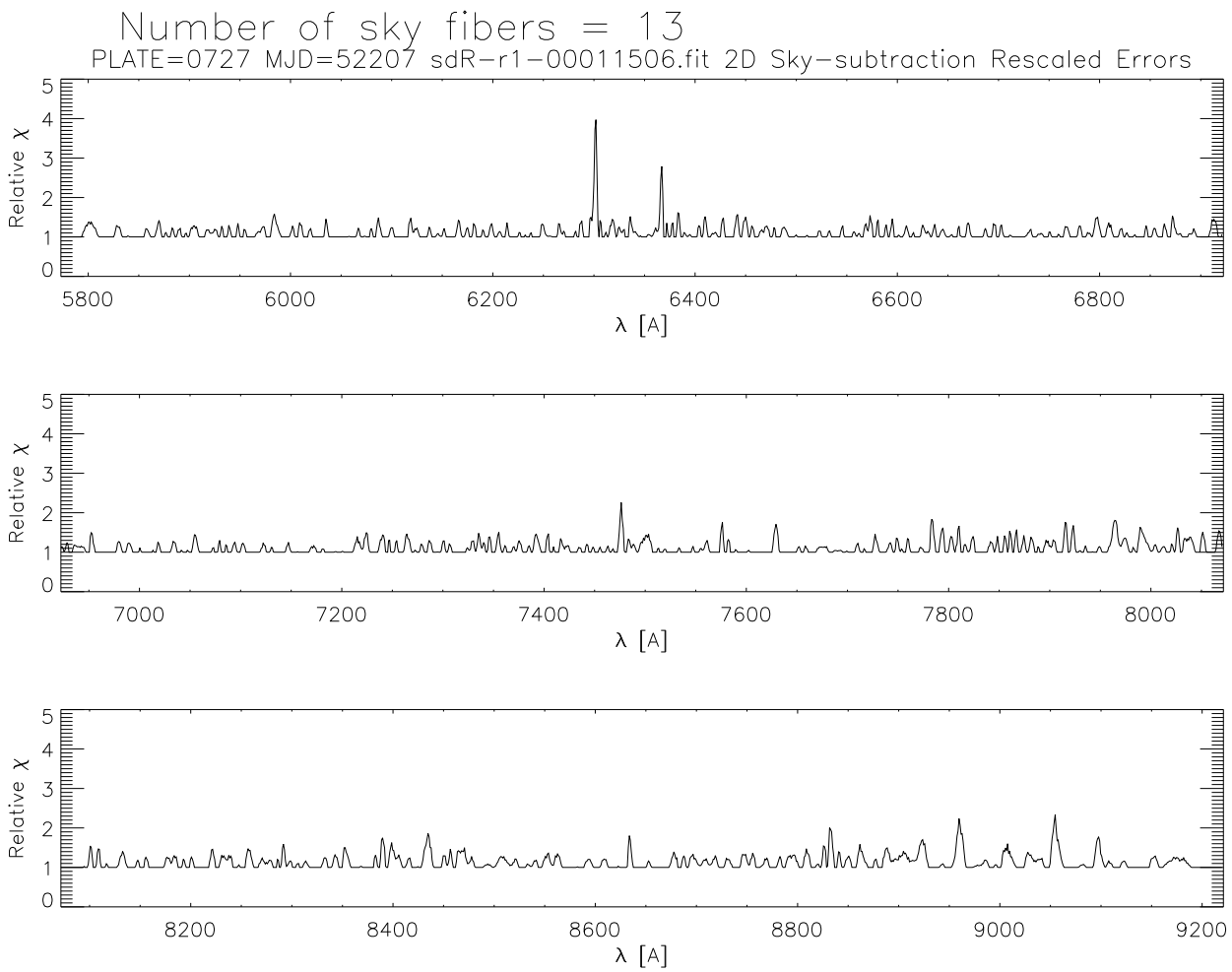

PLATE=0727 MJD=52207 sdR-r1-00011506.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

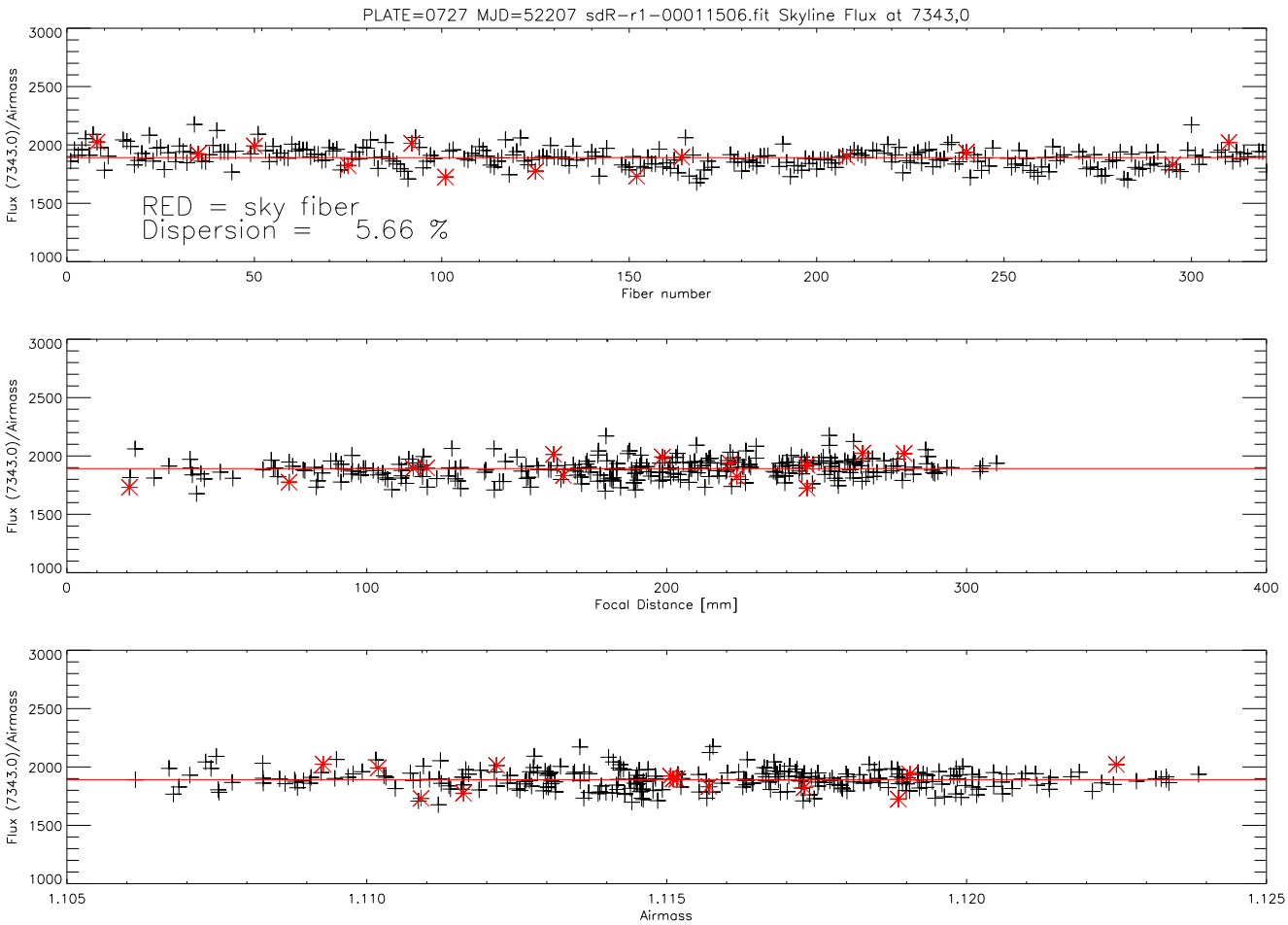

Number of sky fibers = 13
PLATE=0727 MJD=52207 sdR-r1-00011506.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

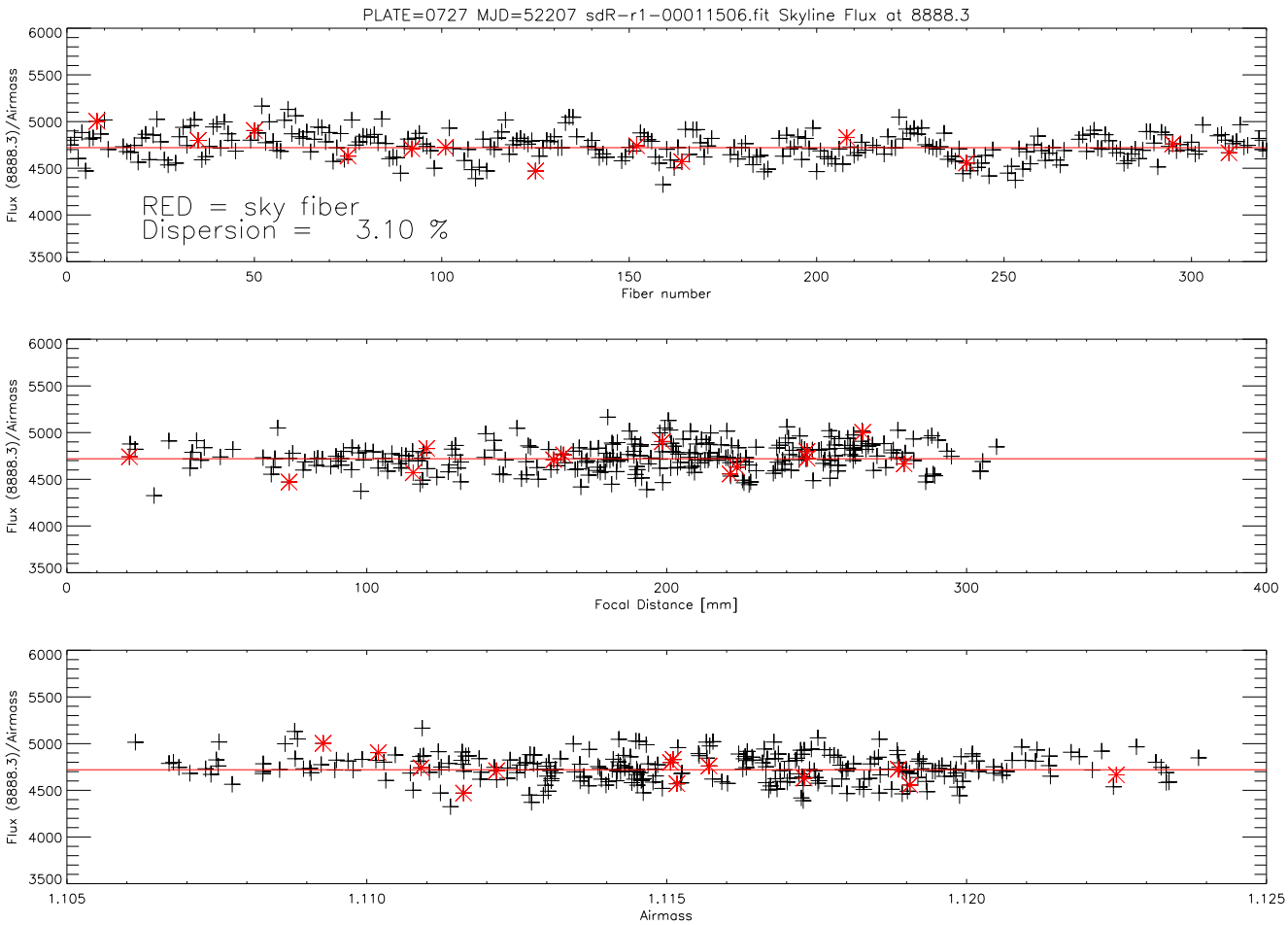

PLATE=0727 MJD=52207 sdR-r1-00011506.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

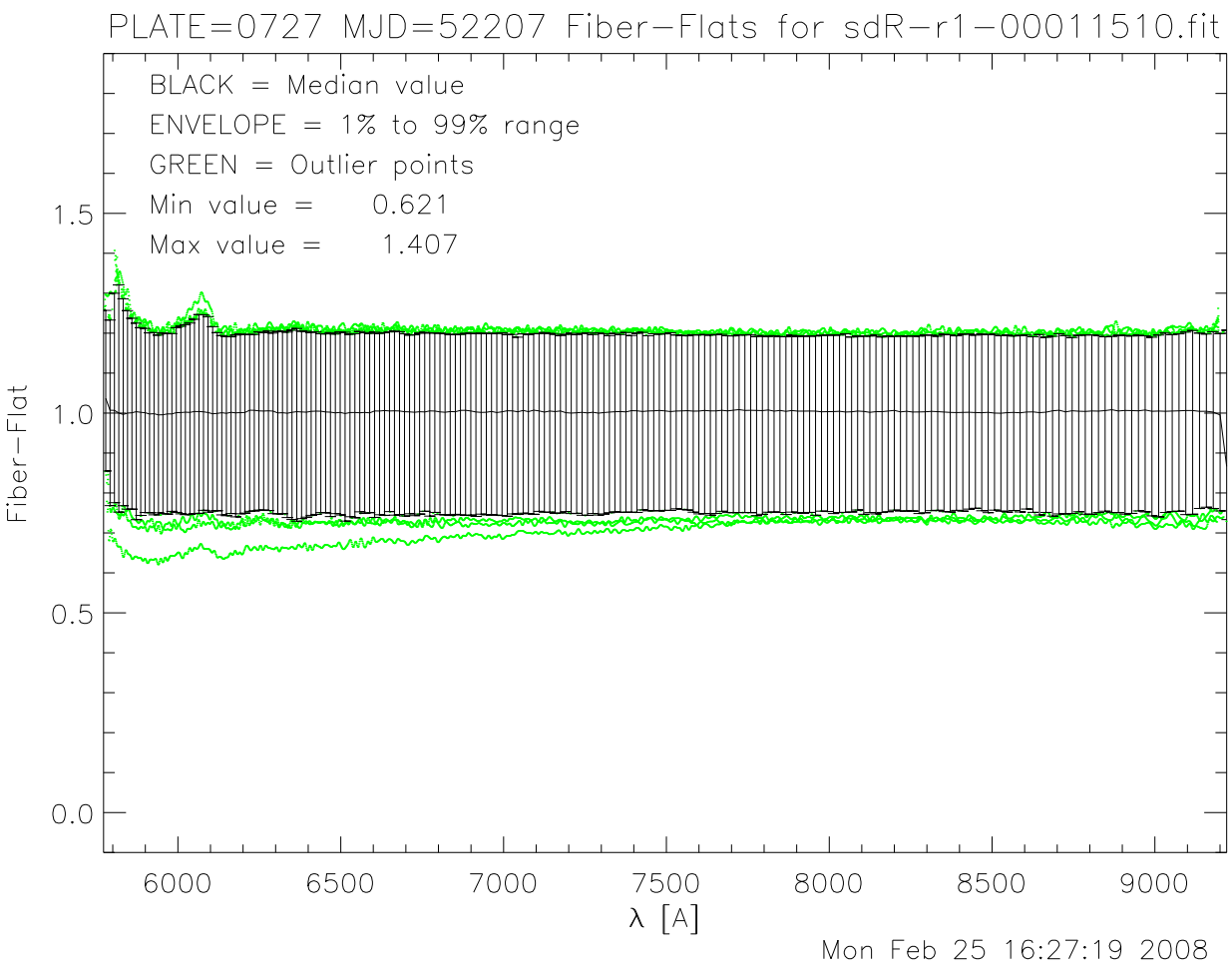

PLATE=0727 MJD=52207 sdR-r1-00011506.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

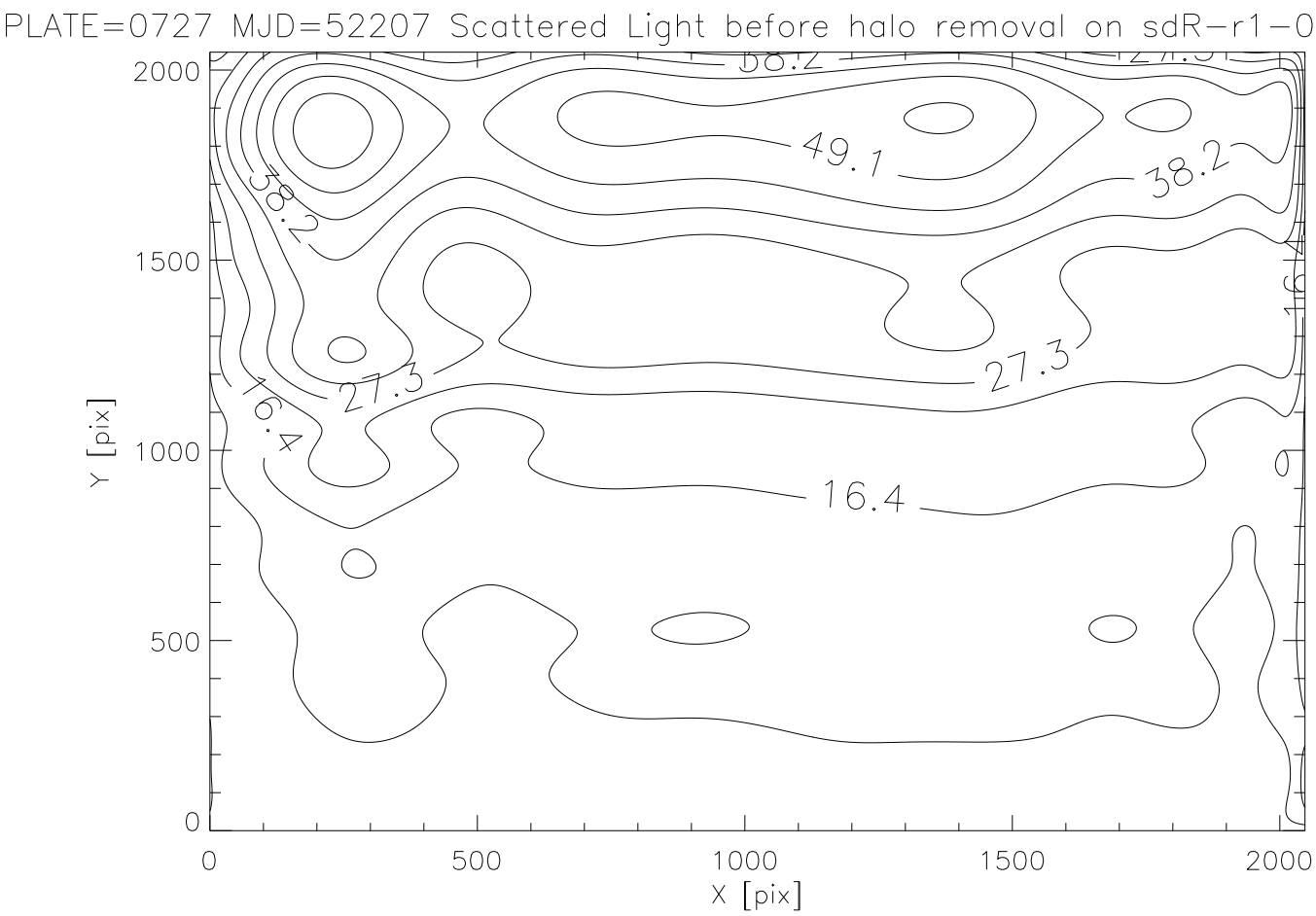

PLATE=0727 MJD=52207 sdR-r1-00011506.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

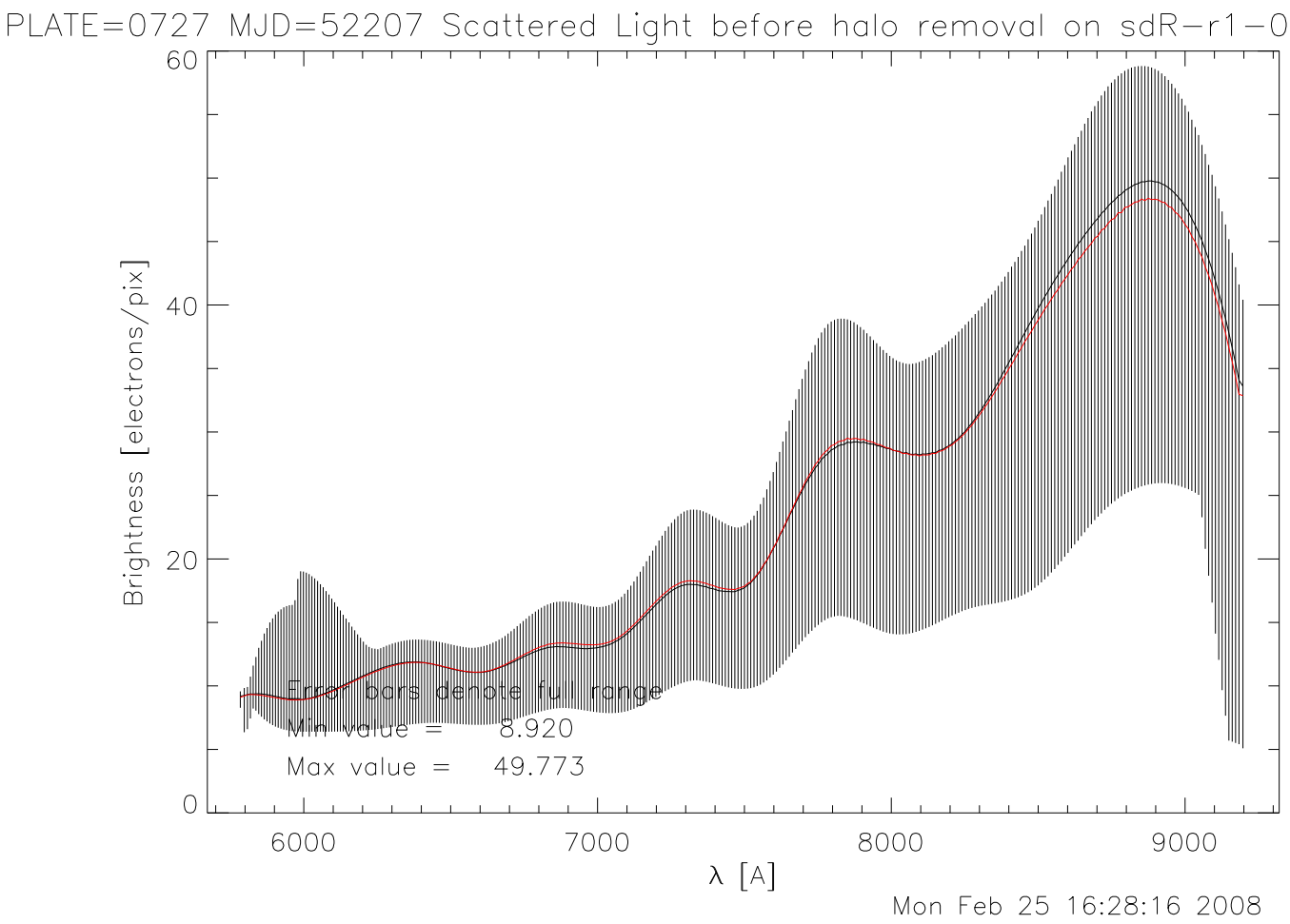

Number of sky fibers = 13
PLATE=0727 MJD=52207 sdR-r1-00011506.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

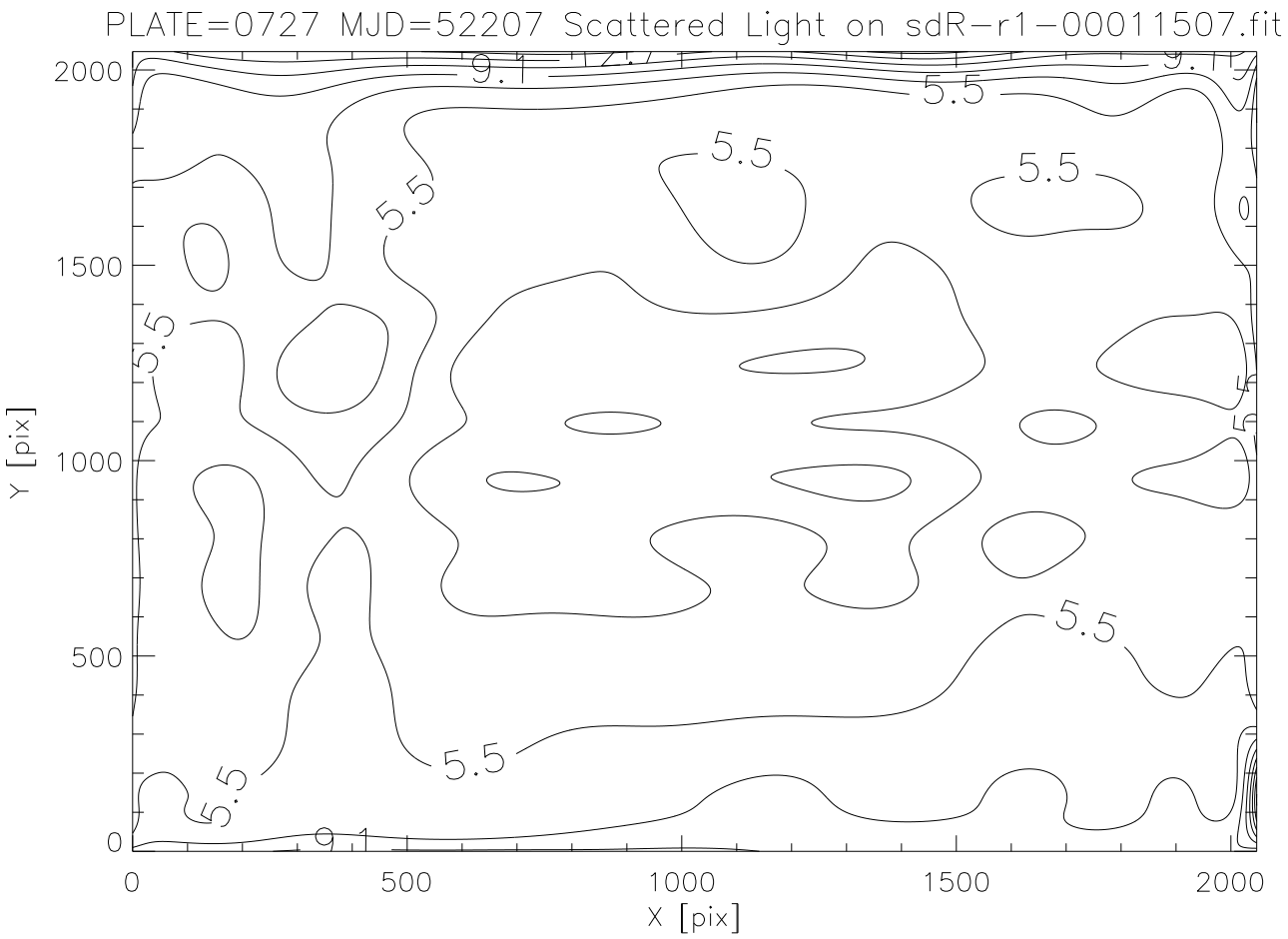

PLATE=0727 MJD=52207 sdR-r1-00011506.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 5.66 %
Fiber number
Focal Distance [mm]
Airmass

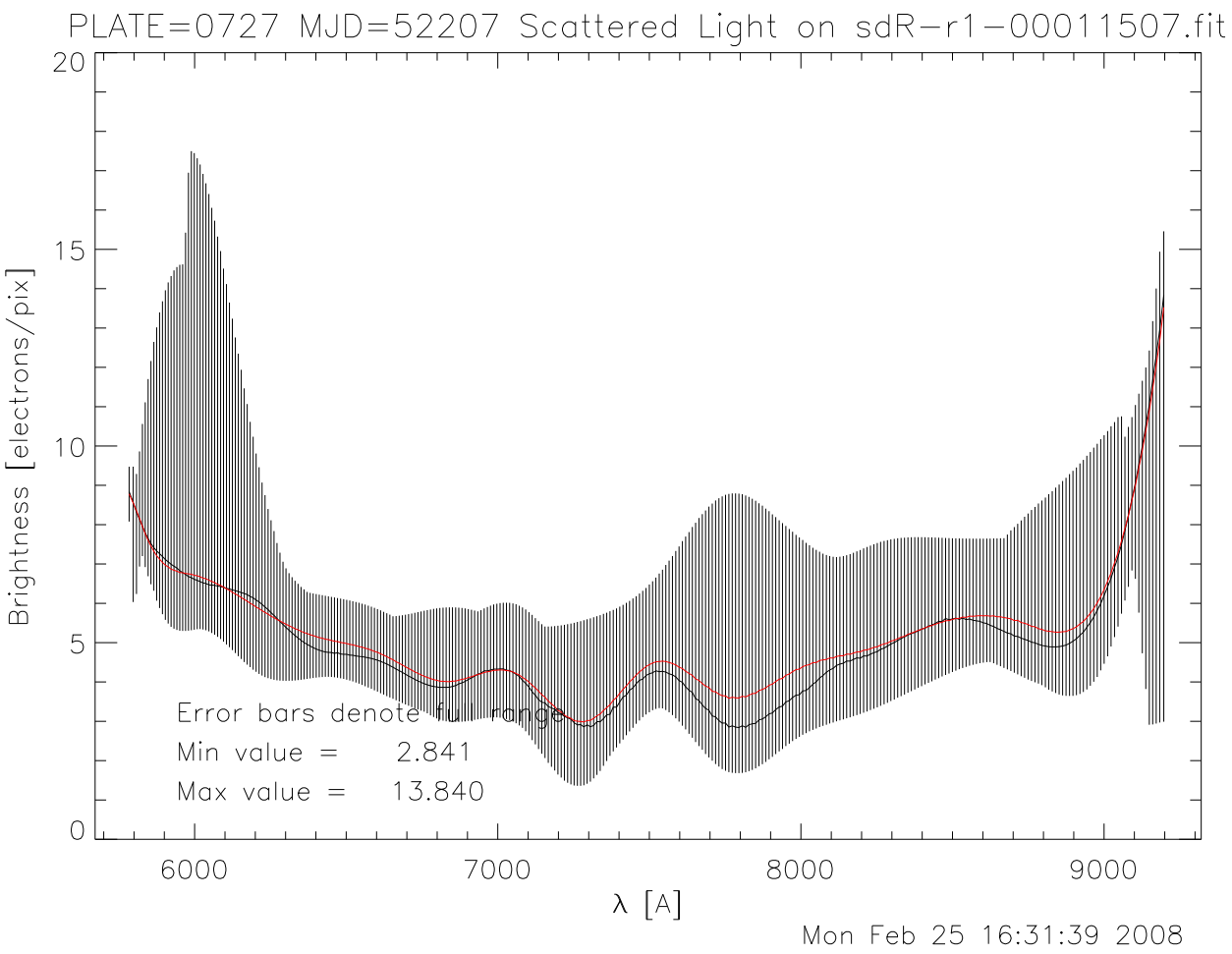

PLATE=0727 MJD=52207 sdR-r1-00011506.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.10 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

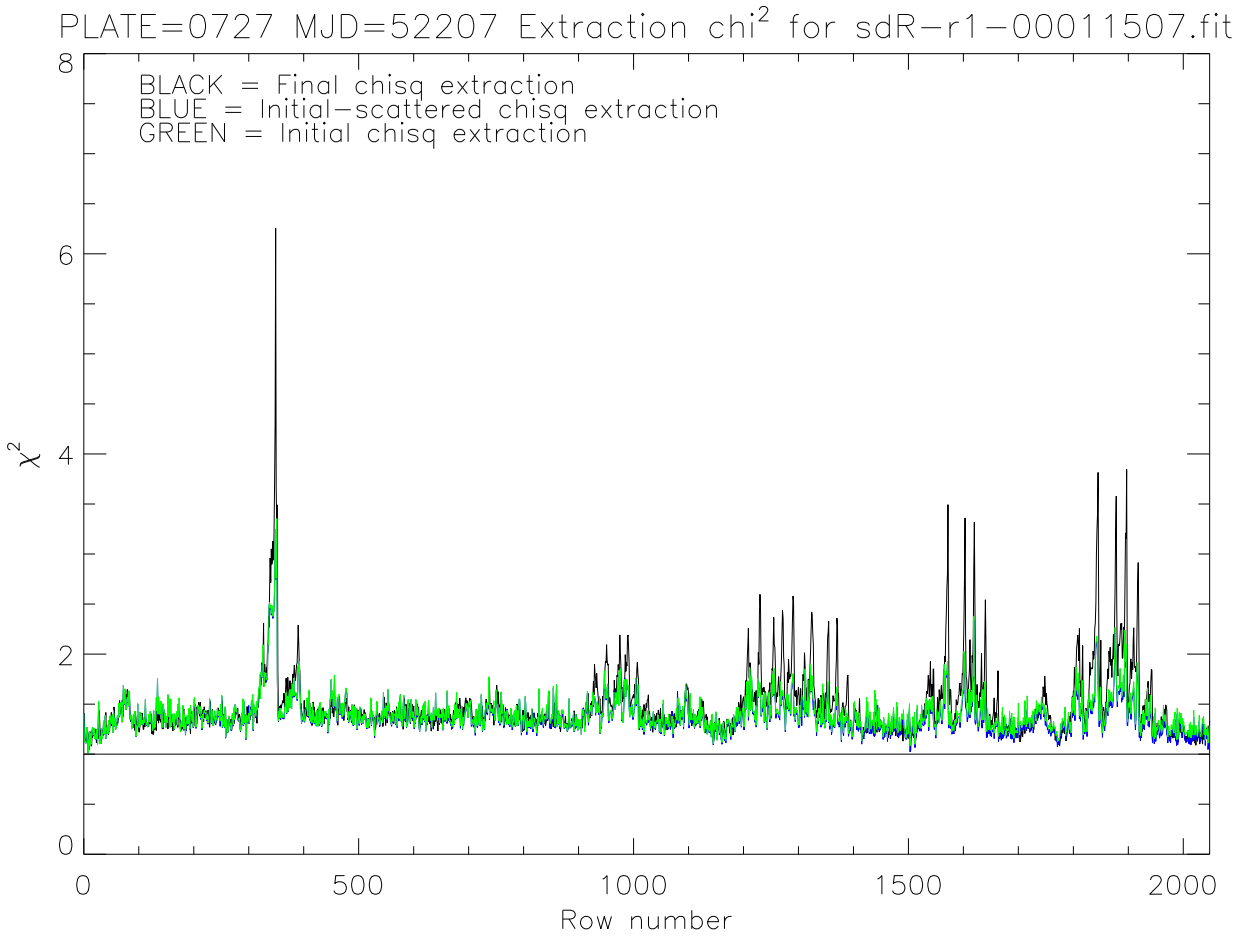

PLATE=0727 MJD=52207 Fiber−Flats for sdR−r1−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.621
Max value = 1.407
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 16:27:19 2008

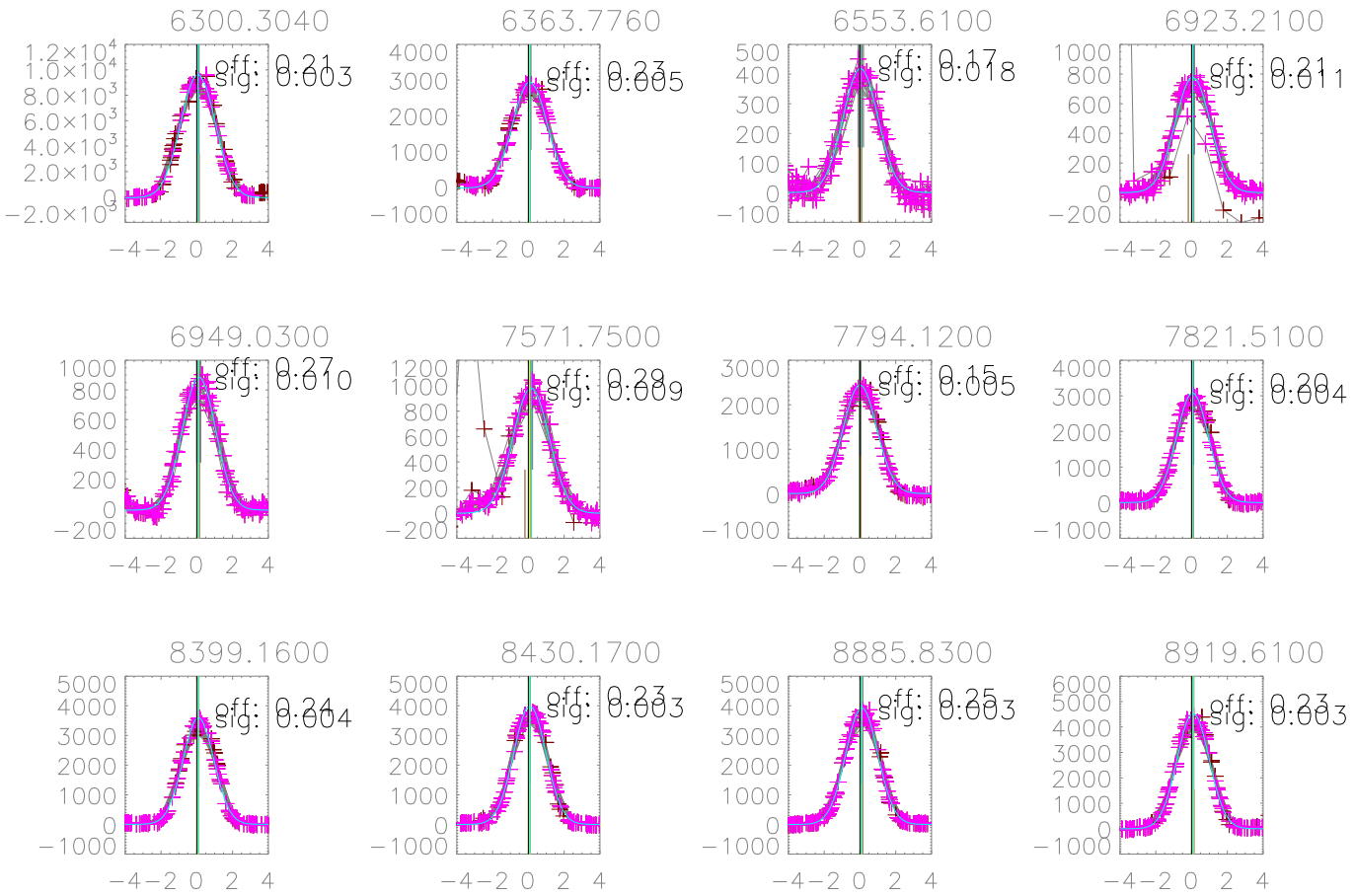

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r1-00011507.fi
49.1
38.2
27.3
16.4
Y [pix]
X [pix]
0
500
1000
1500
2000

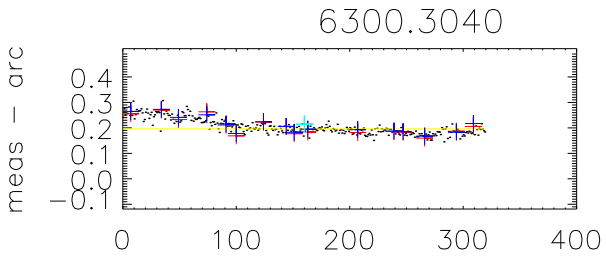

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r1-00011507.fi
Brightness [electrons/pix]
60
40
20
0
Error bars denote full range
Min value = 8.920
Max value = 49.773
6000
7000
8000
9000
λ [A]
Mon Feb 25 16:28:16 2008

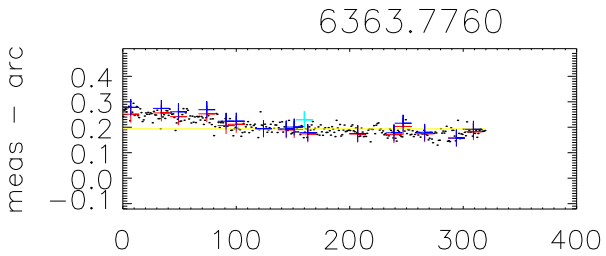

PLATE=0727 MJD=52207 Scattered Light on sdR-r1-00011507.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.5
9.1

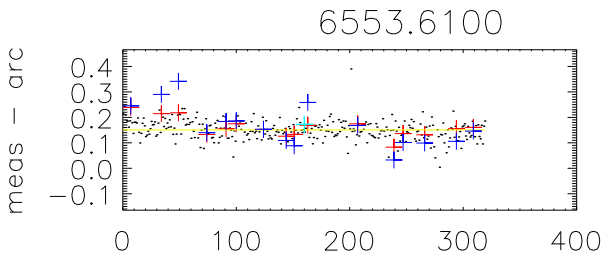

PLATE=0727 MJD=52207 Scattered Light on sdR-r1-00011507.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.841
Max value = 13.840
Mon Feb 25 16:31:39 2008

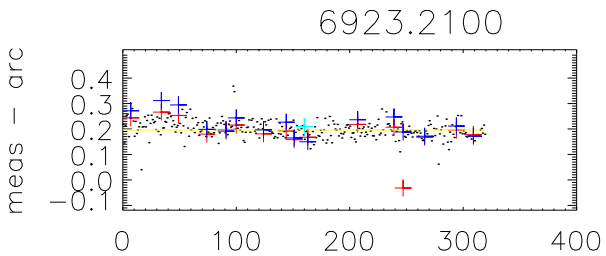

PLATE=0727 MJD=52207 Extraction chi^2 for sdR−r1−00011507.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

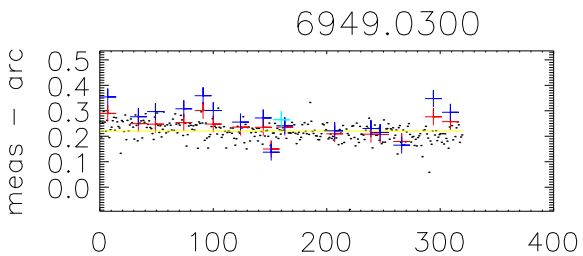

6300.3040
off: 0.21
sig: 0.003
6363.7760
off: 0.23
sig: 0.005
6553.6100
off: 0.17
sig: 0.018
6923.2100
off: 0.21
sig: 0.011
6949.0300
off: 0.27
sig: 0.010
7571.7500
off: 0.28
sig: 0.009
7794.1200
off: 0.15
sig: 0.005
7821.5100
off: 0.20
sig: 0.004
8399.1600
off: 0.24
sig: 0.004
8430.1700
off: 0.23
sig: 0.003
8885.8300
off: 0.25
sig: 0.003
8919.6100
off: 0.23
sig: 0.003

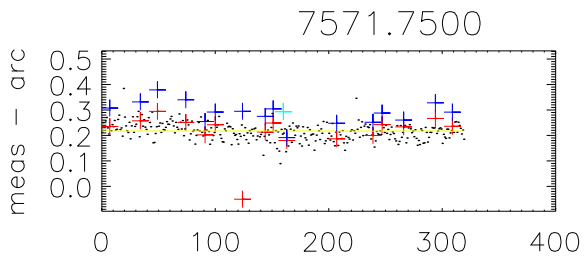

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

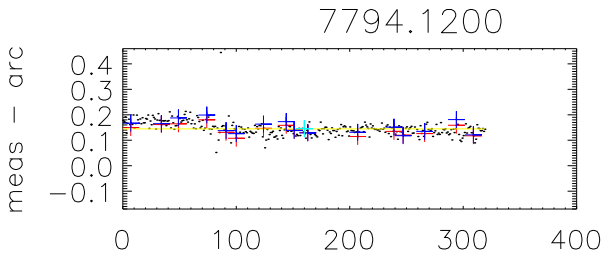

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

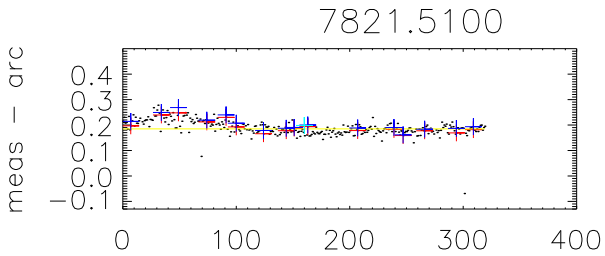

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

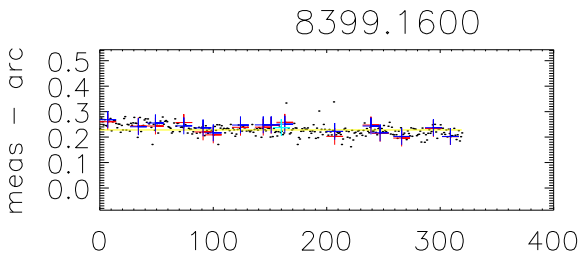

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

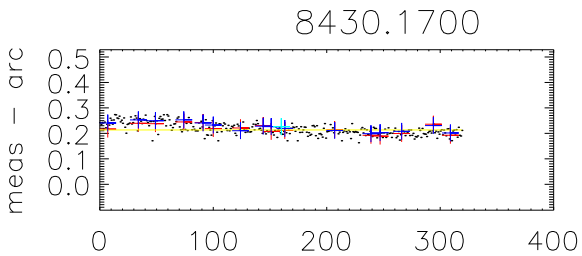

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

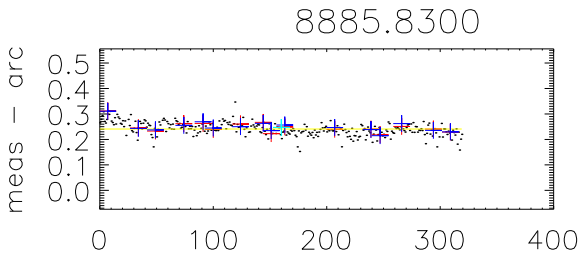

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

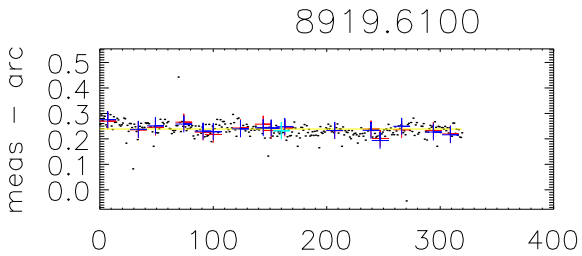

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

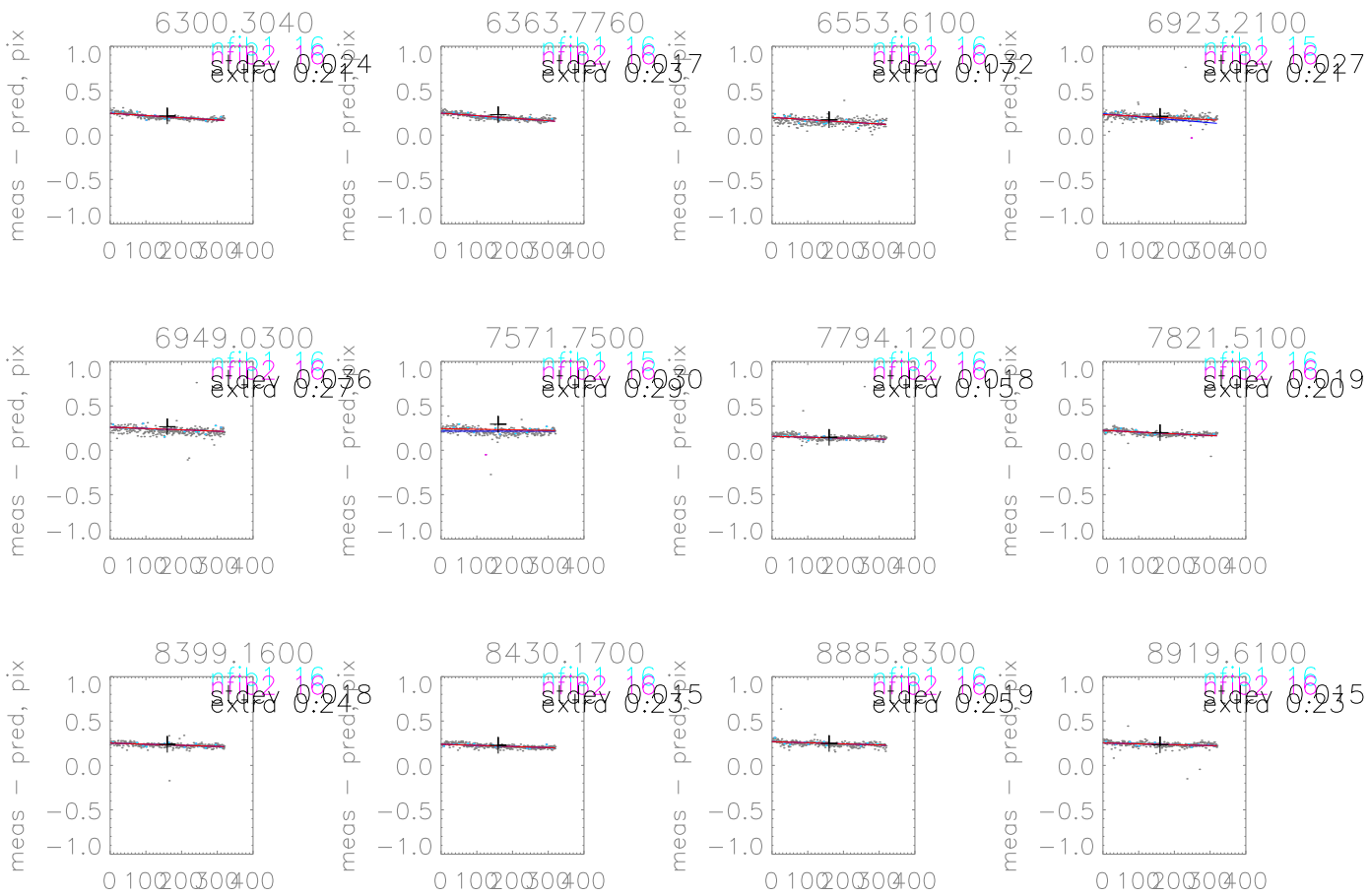

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

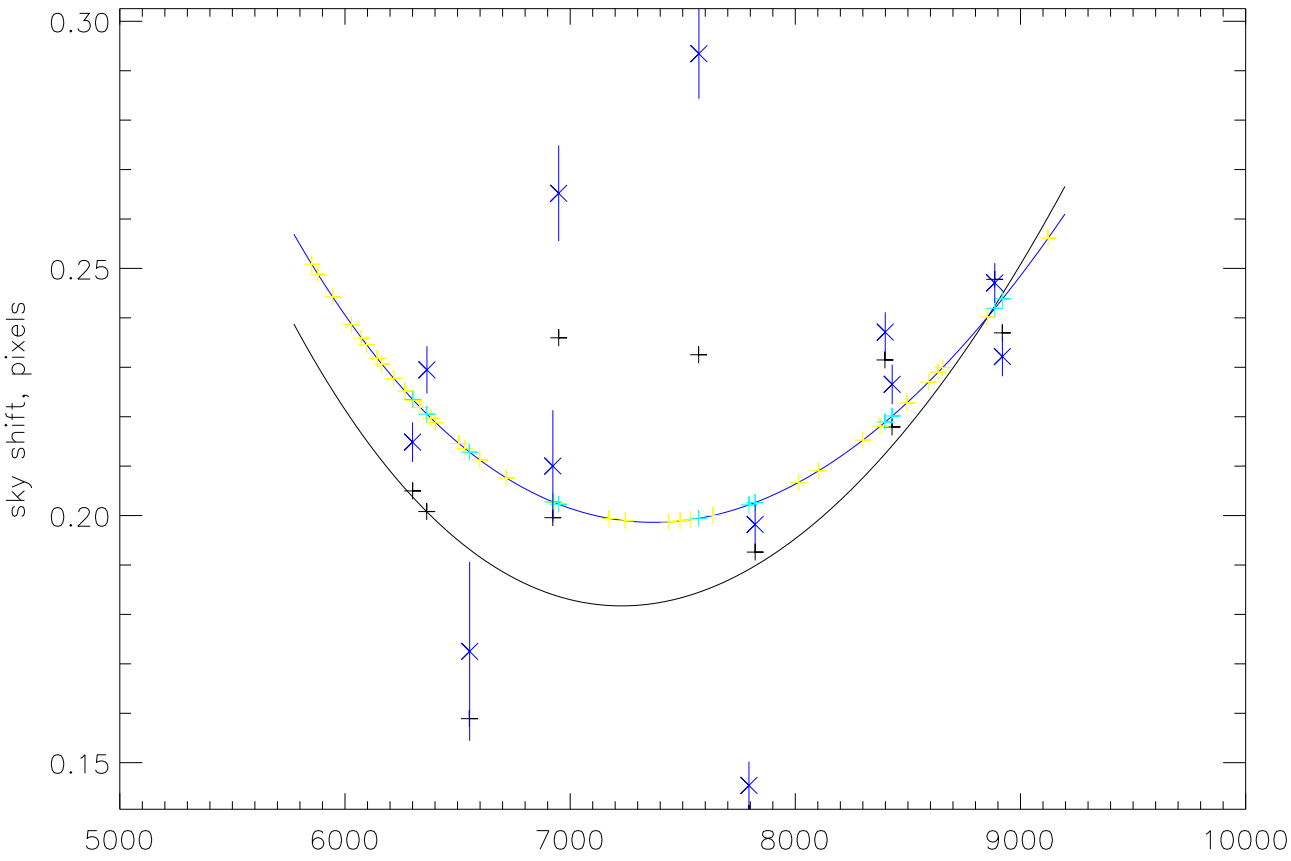

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

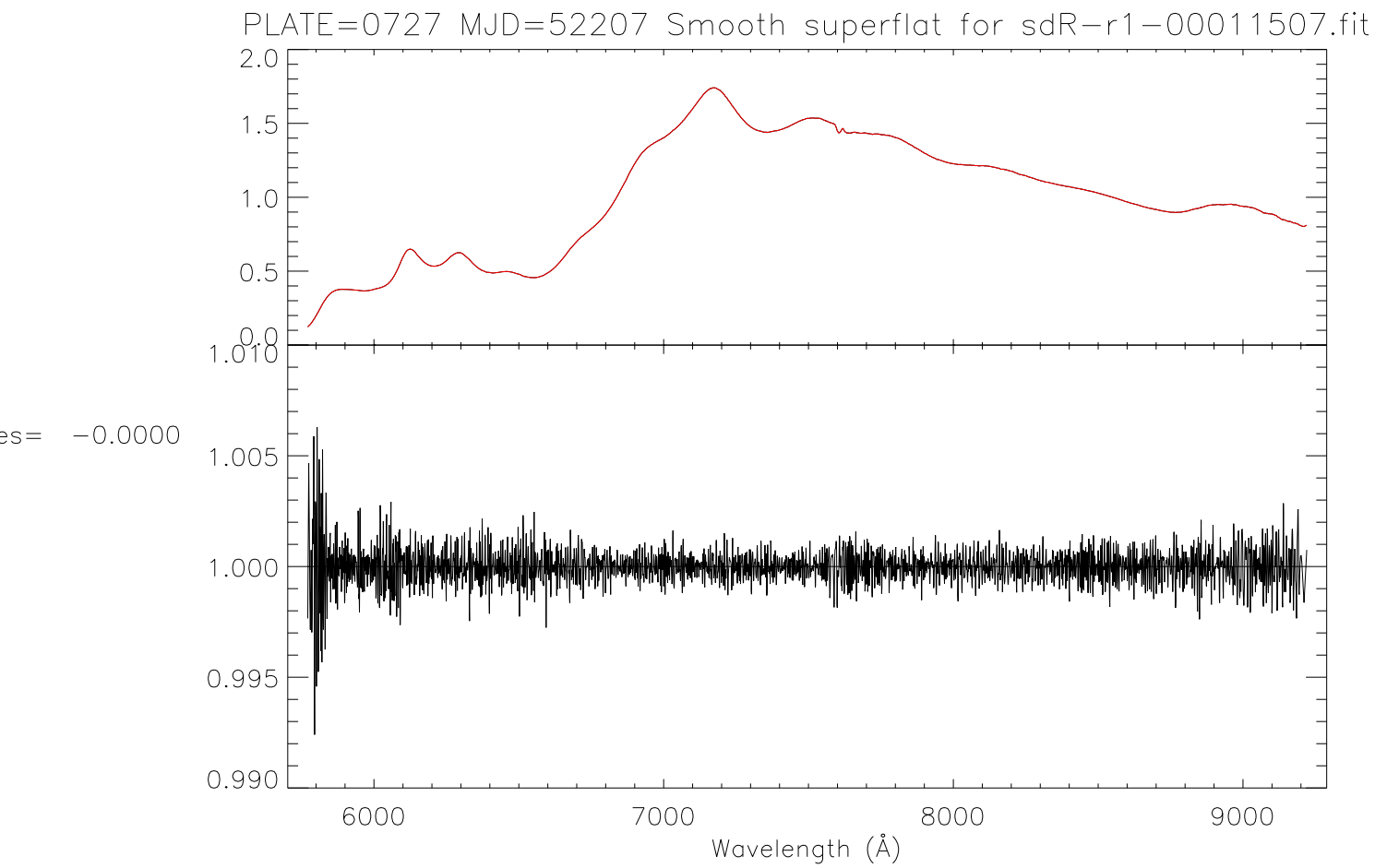

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

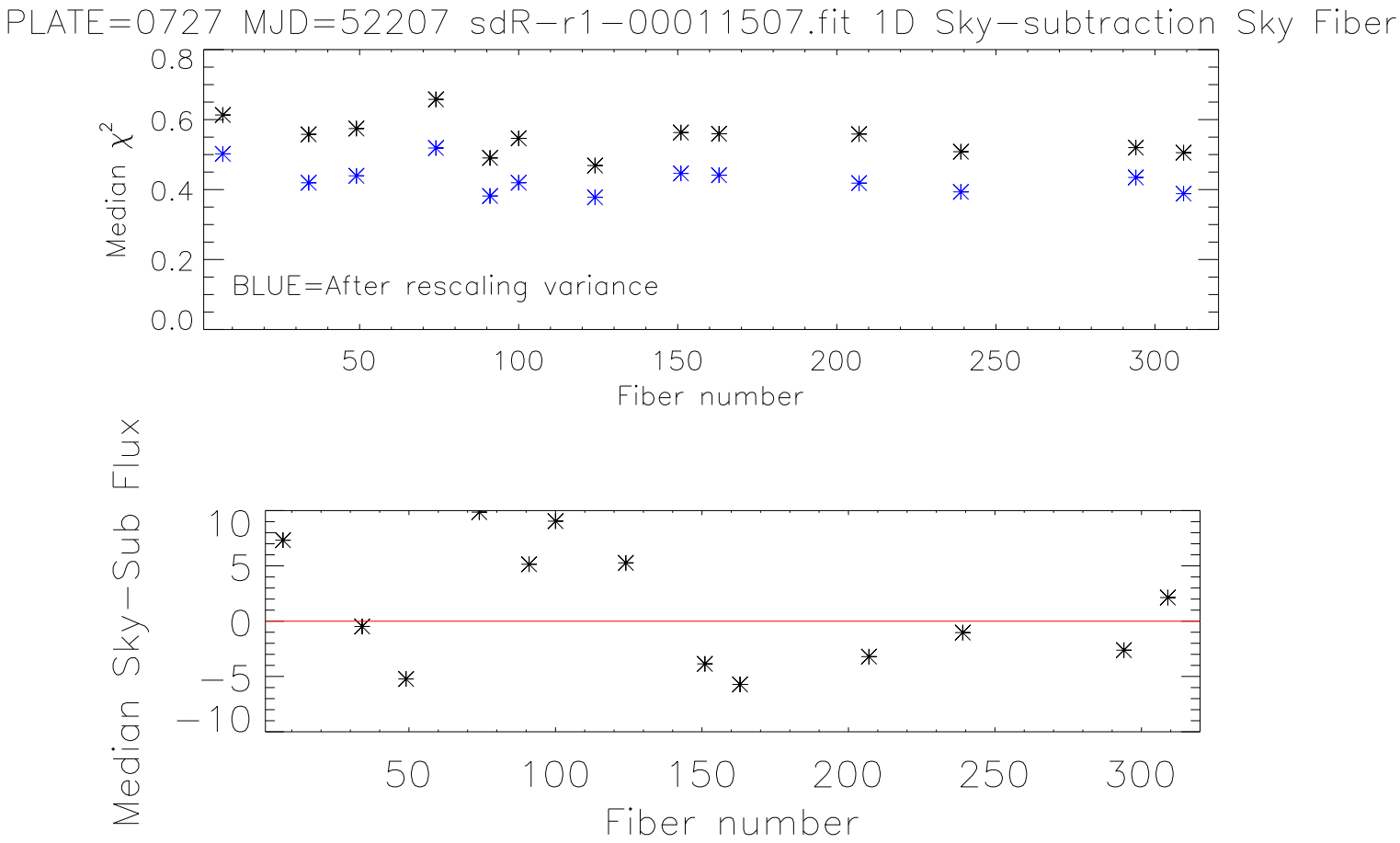

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

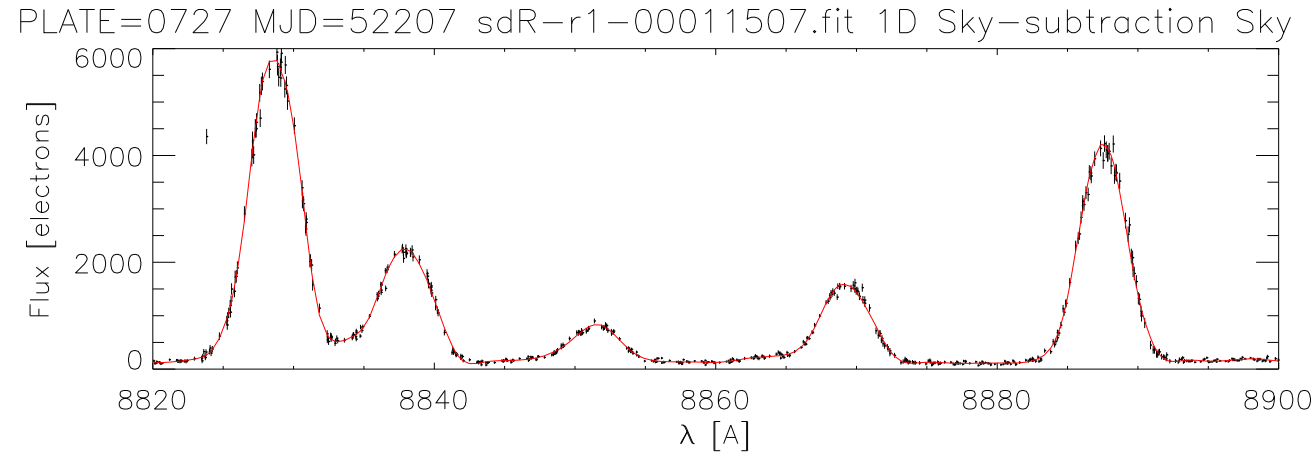

6300.3040
stdev 0.024
extra 0.21
6363.7760
stdev 0.017
extra 0.23
6553.6100
stdev 0.032
extra 0.172
6923.2100
stdev 0.027
extra 0.21
6949.0300
stdev 0.036
extra 0.27
7571.7500
stdev 0.030
extra 0.29
7794.1200
stdev 0.058
extra 0.158
7821.5100
stdev 0.019
extra 0.20
8399.1600
stdev 0.018
extra 0.24
8430.1700
stdev 0.015
extra 0.23
8885.8300
stdev 0.029
extra 0.25
8919.6100
stdev 0.015
extra 0.23
meas − pred, pix
mfib1 16
mfib2 16
mfib1 15
mfib2 15

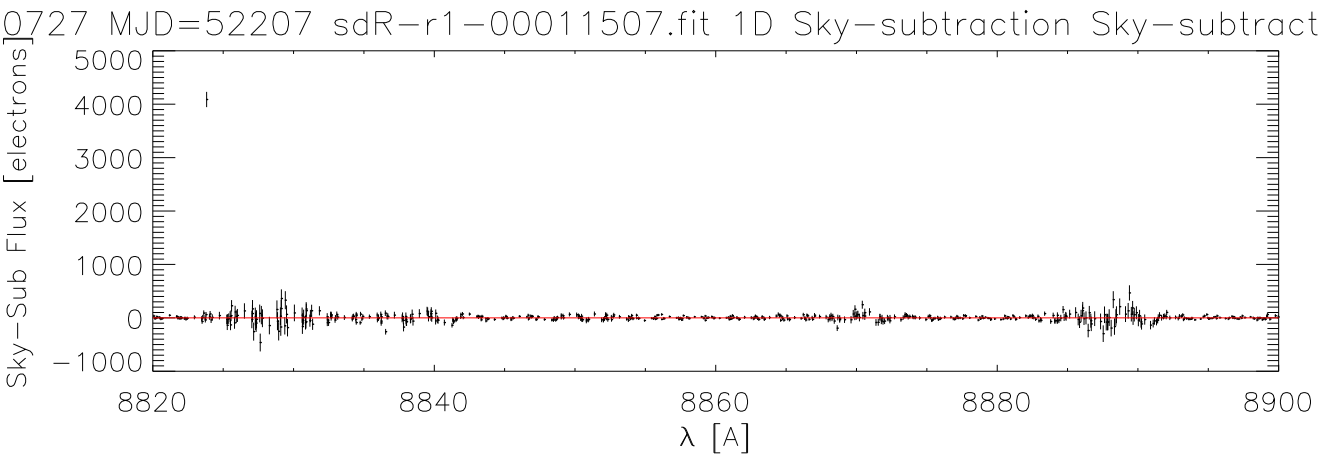

0.30
0.25
0.20
0.15
sky shift, pixels
5000
6000
7000
8000
9000
10000

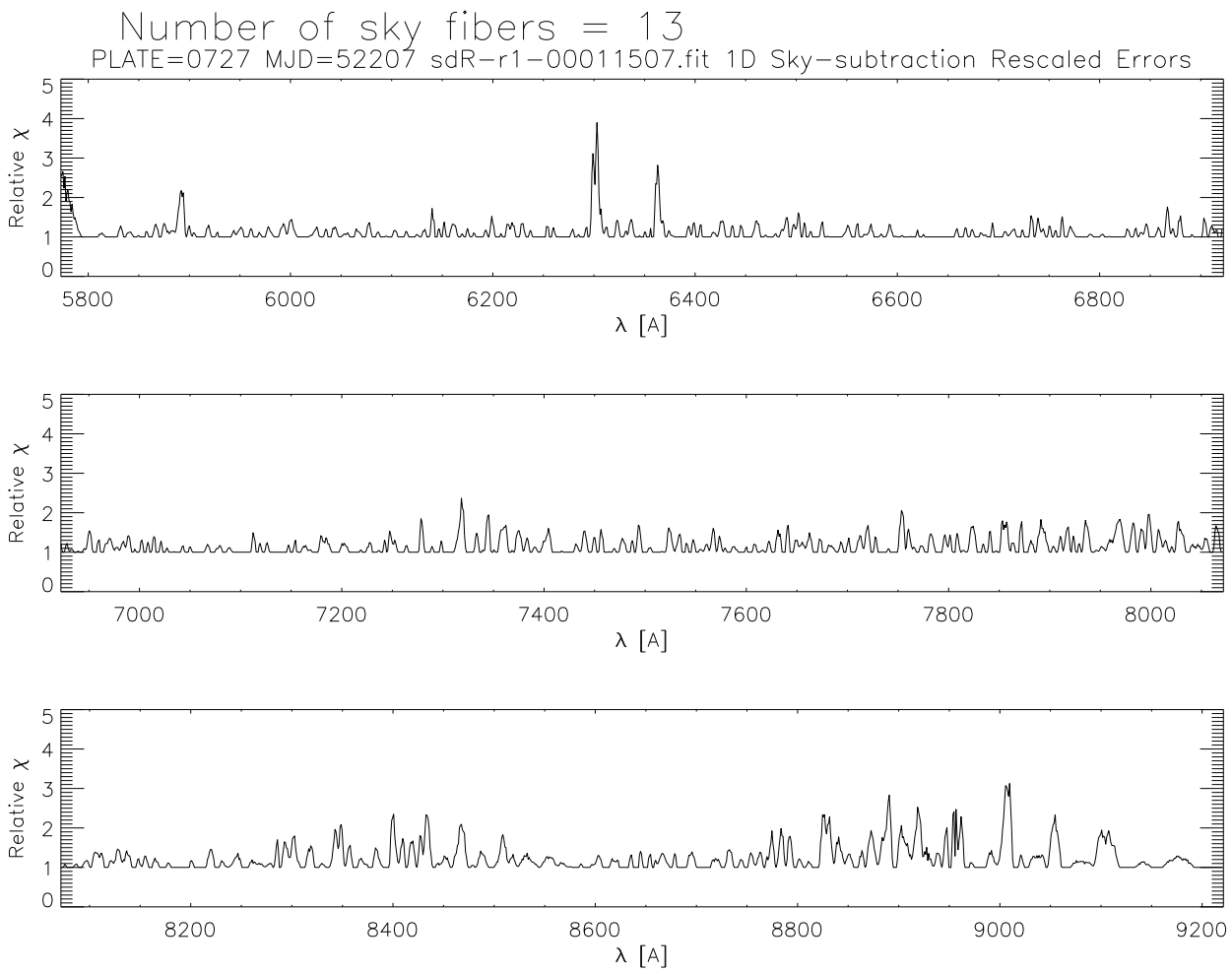

PLATE=0727 MJD=52207 Smooth superflat for sdR-r1-00011507.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

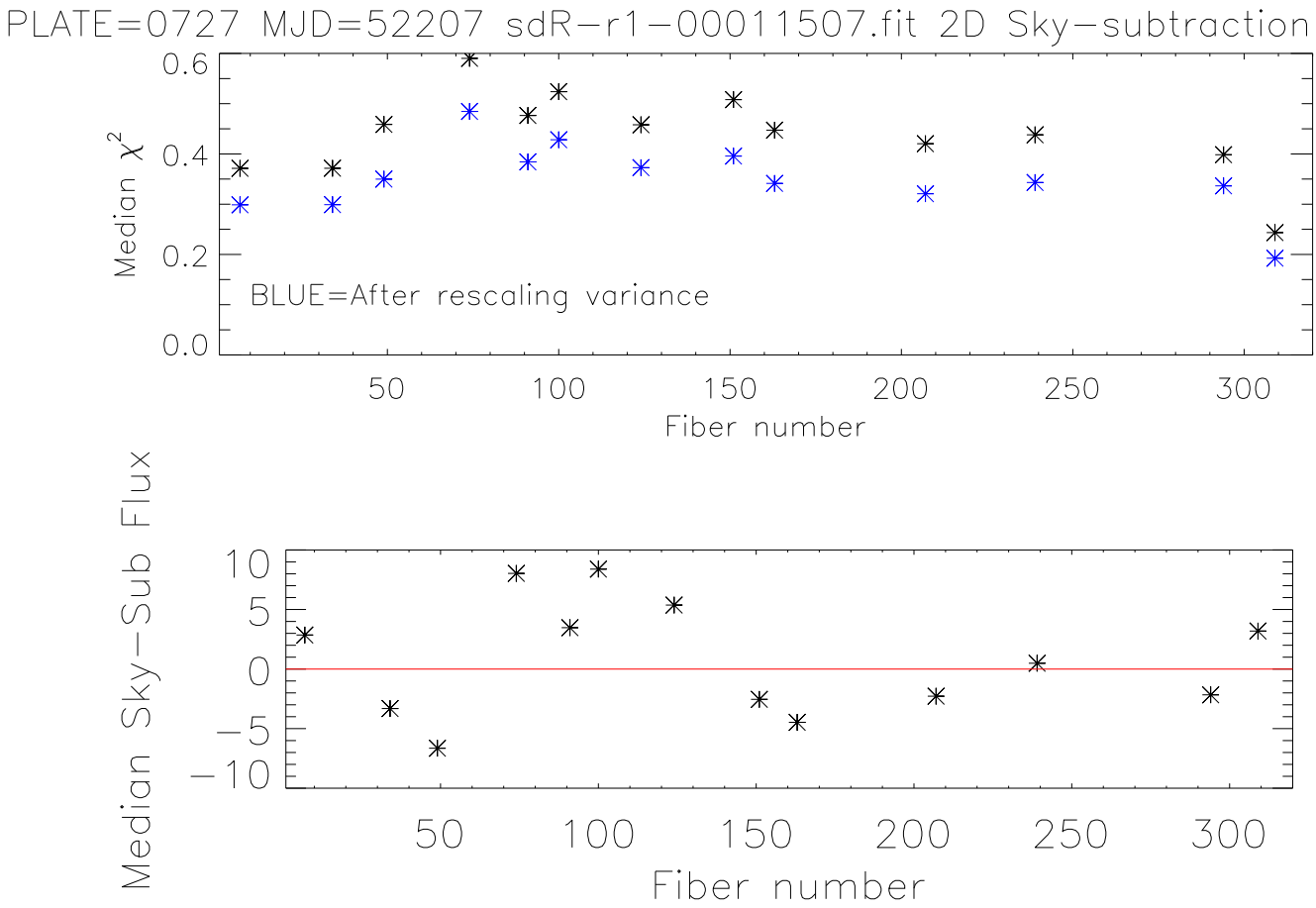
es= −0.0000

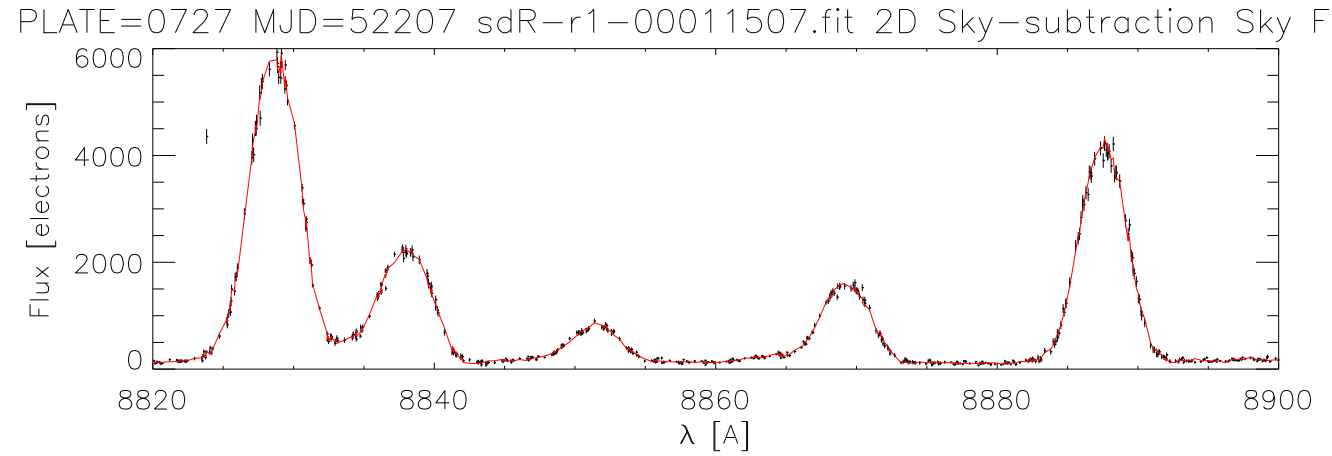

PLATE=0727 MJD=52207 sdR-r1-00011507.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

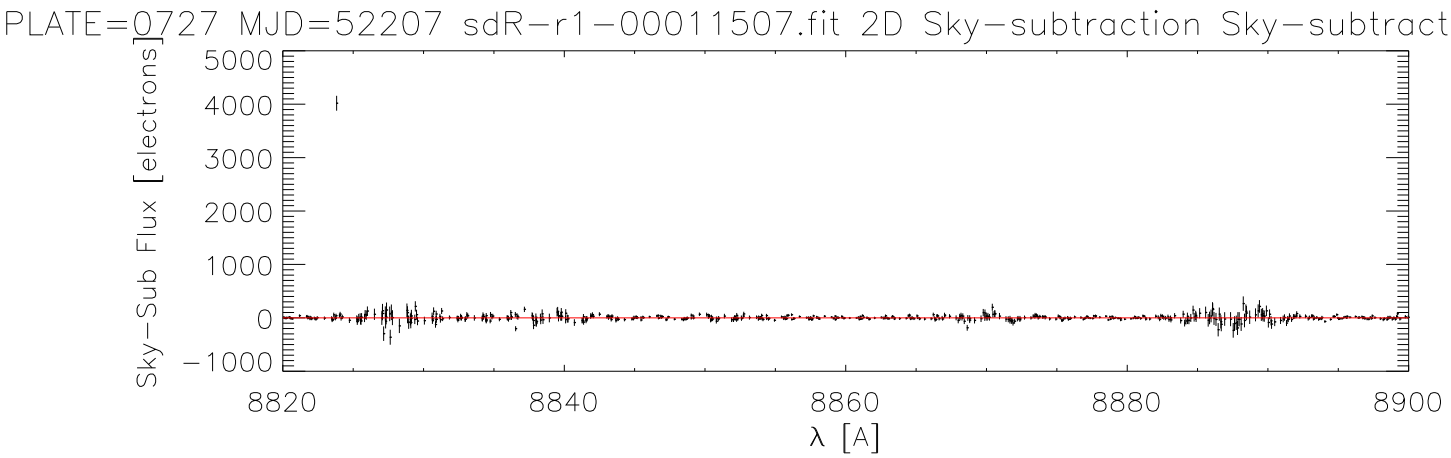

PLATE=0727 MJD=52207 sdR-r1-00011507.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

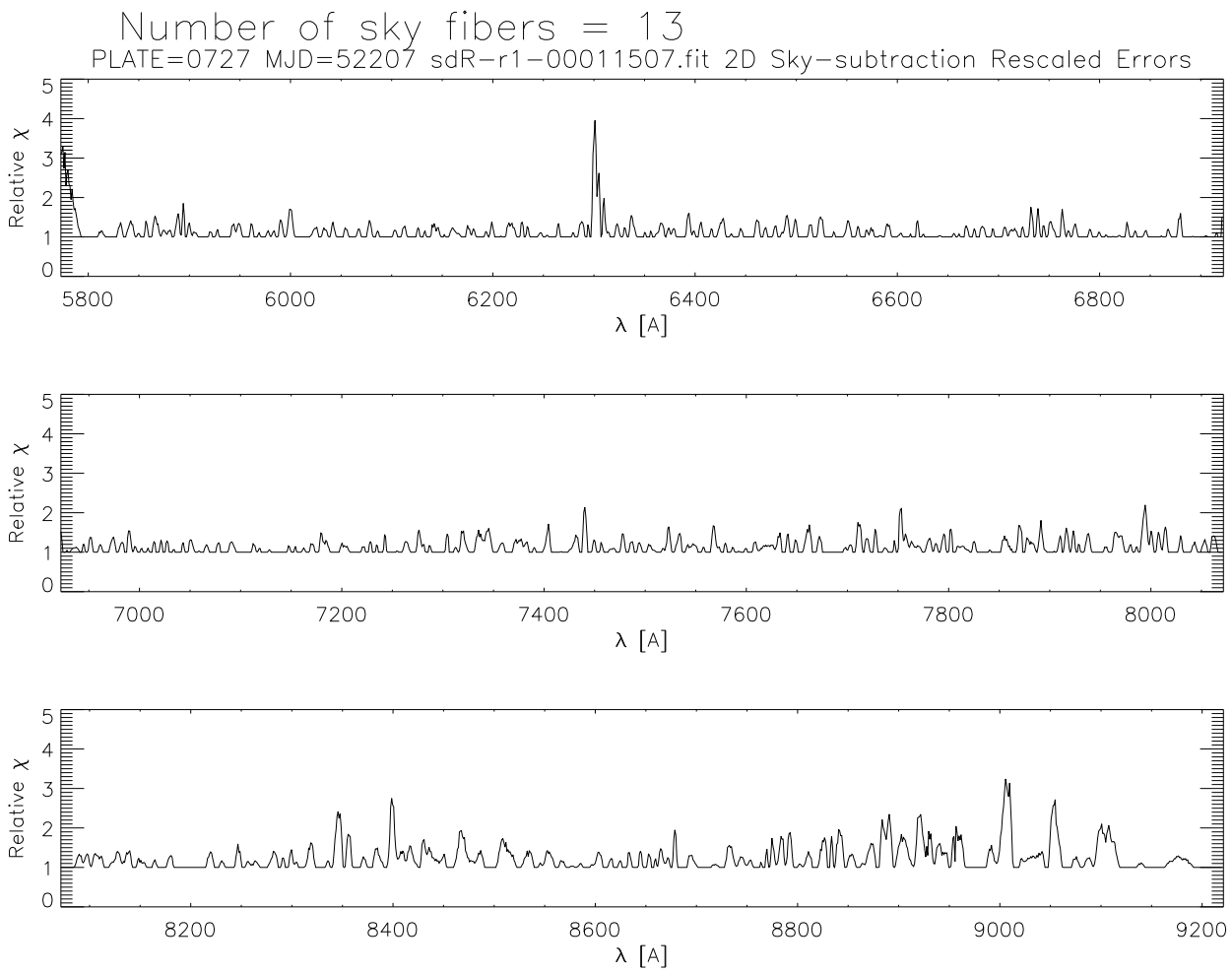

PLATE=0727 MJD=52207 sdR-r1-00011507.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

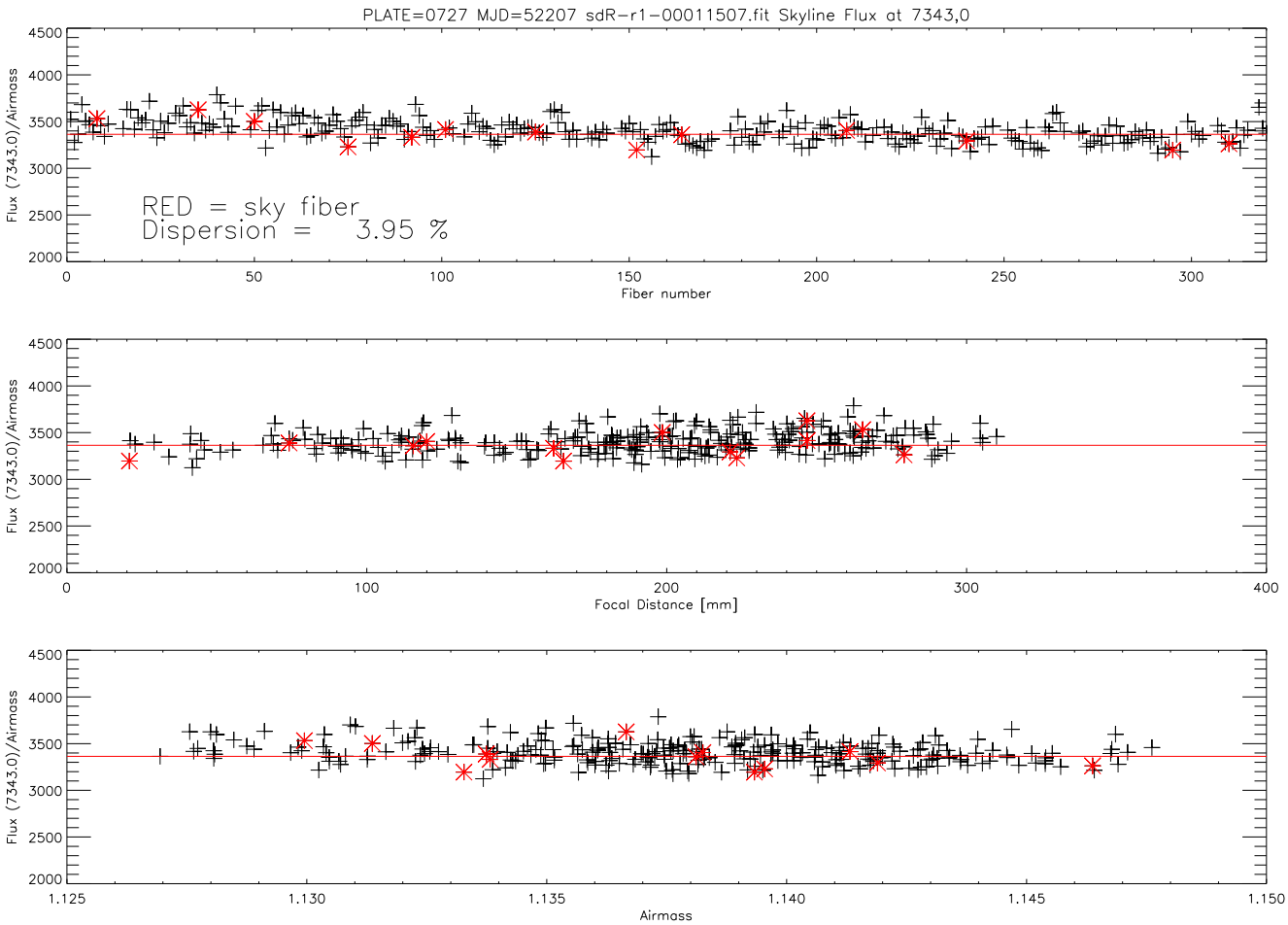

Number of sky fibers = 13
PLATE=0727 MJD=52207 sdR-r1-00011507.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

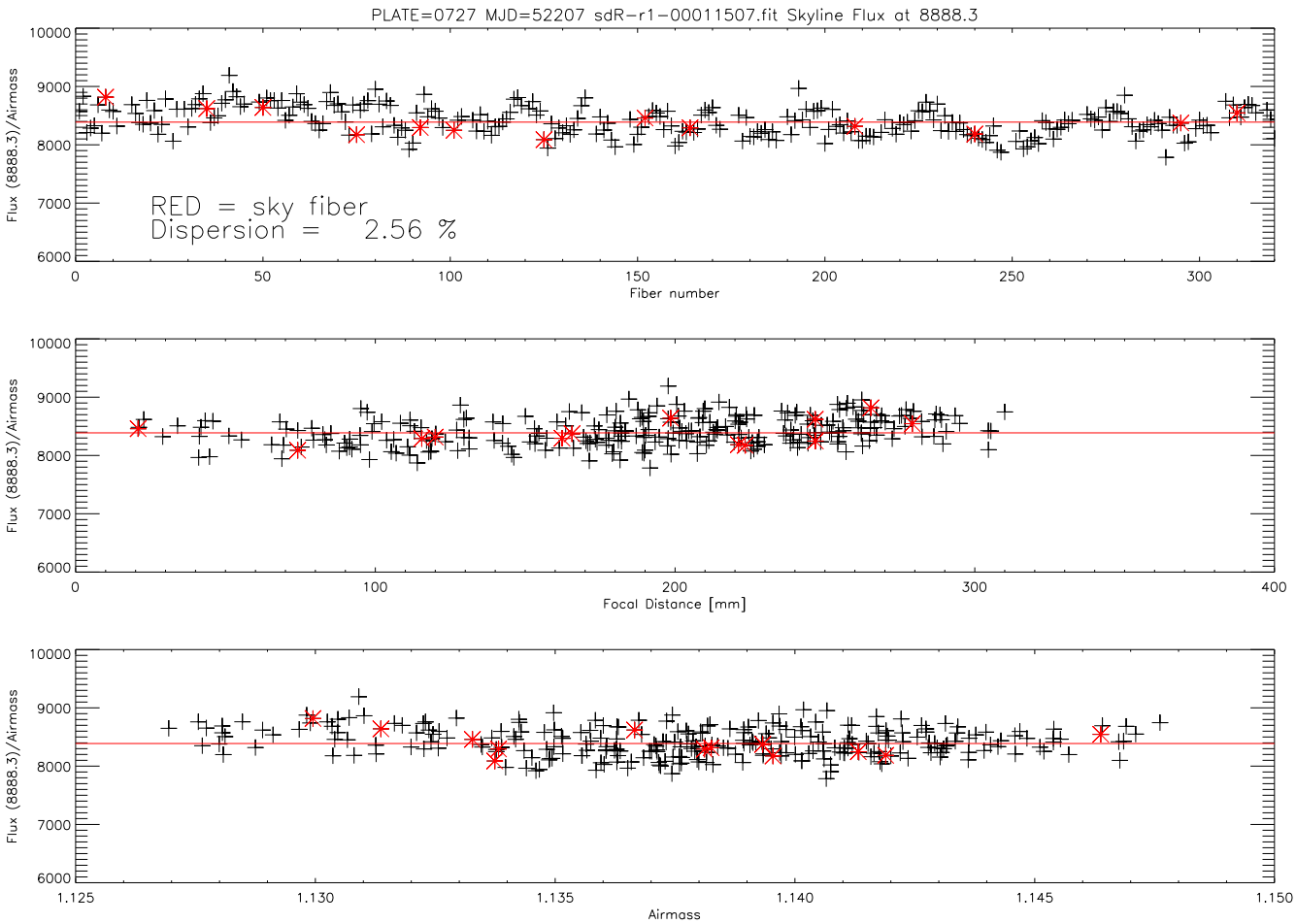

PLATE=0727 MJD=52207 sdR-r1-00011507.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

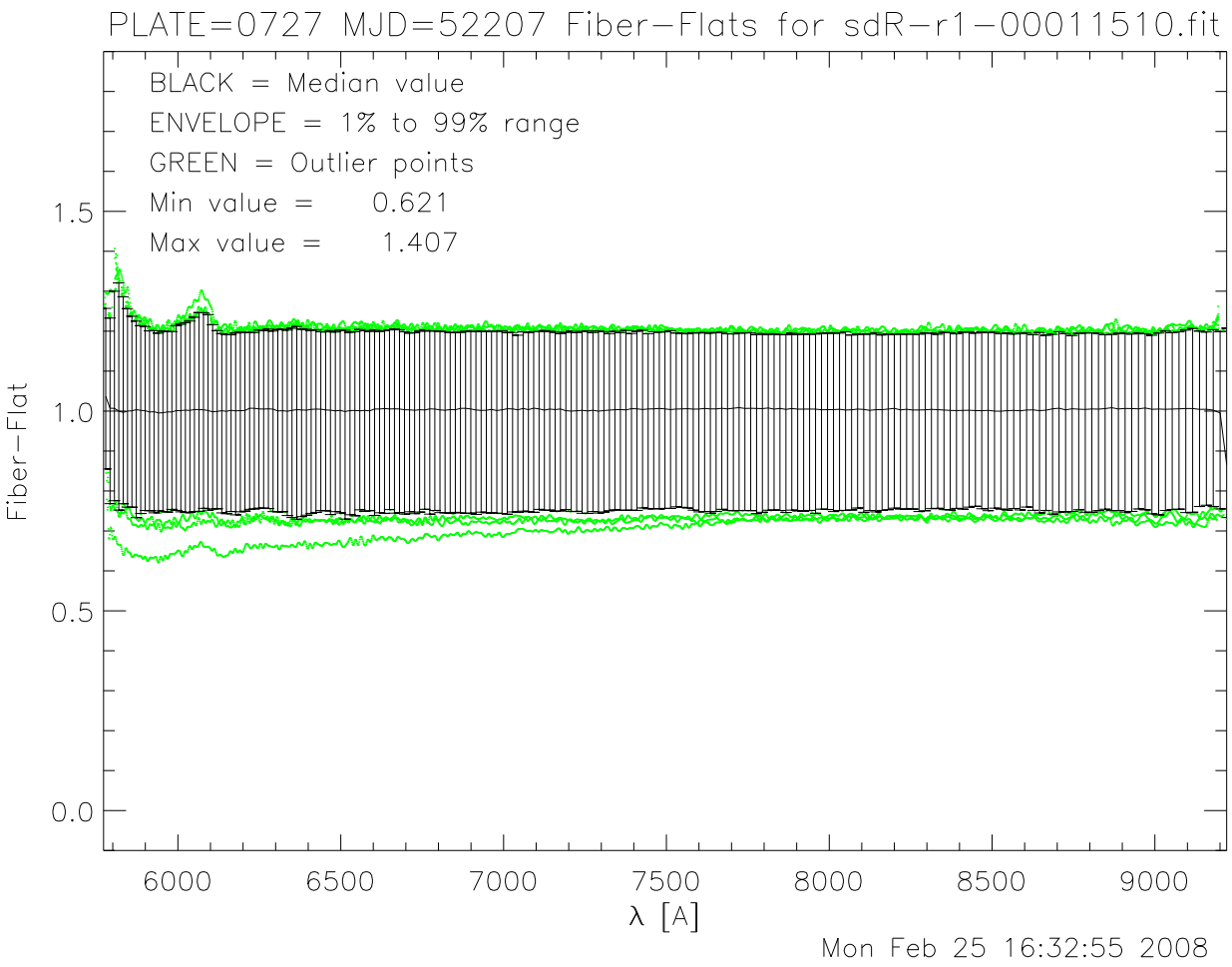

PLATE=0727 MJD=52207 sdR-r1-00011507.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

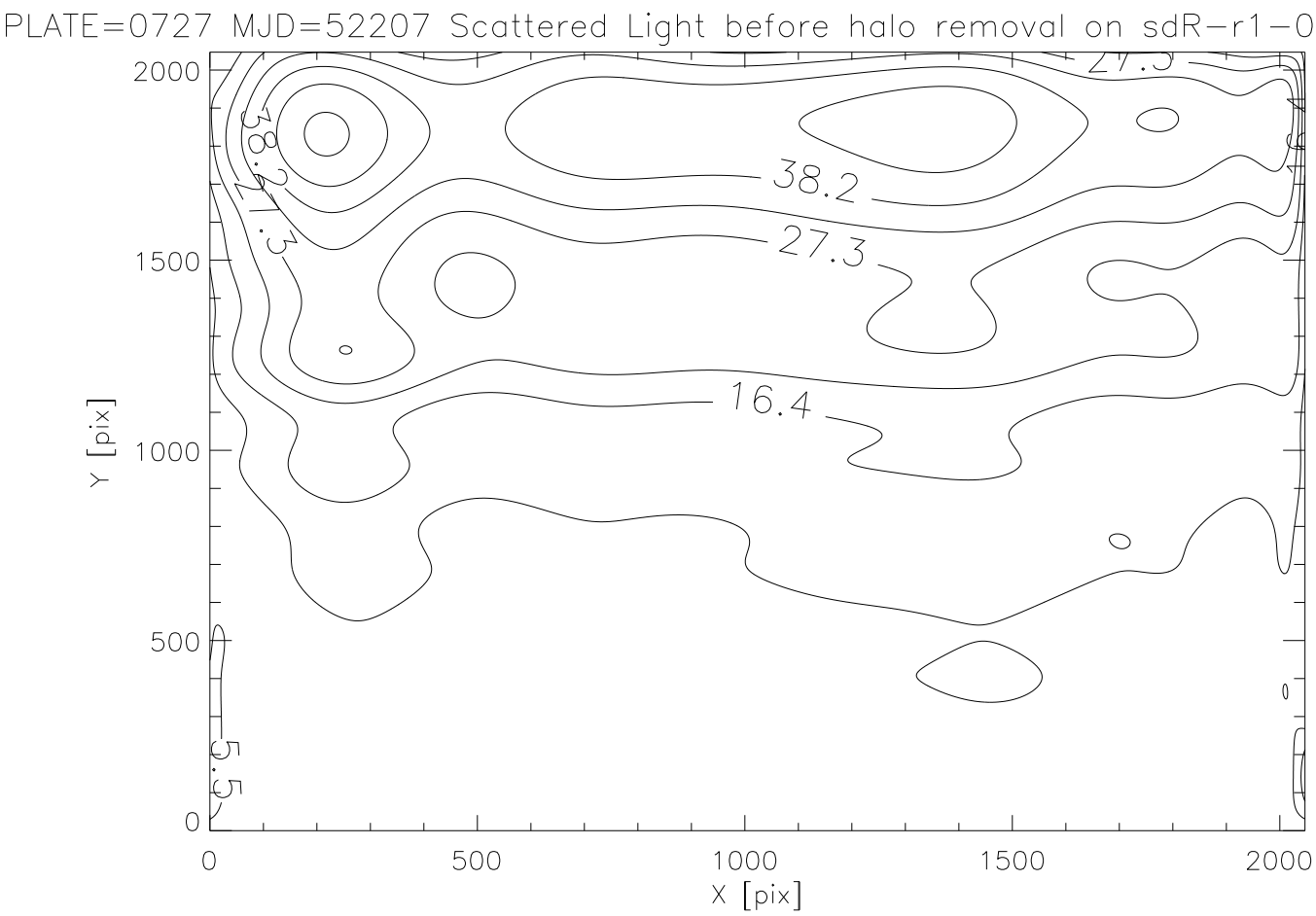

PLATE=0727 MJD=52207 sdR-r1-00011507.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

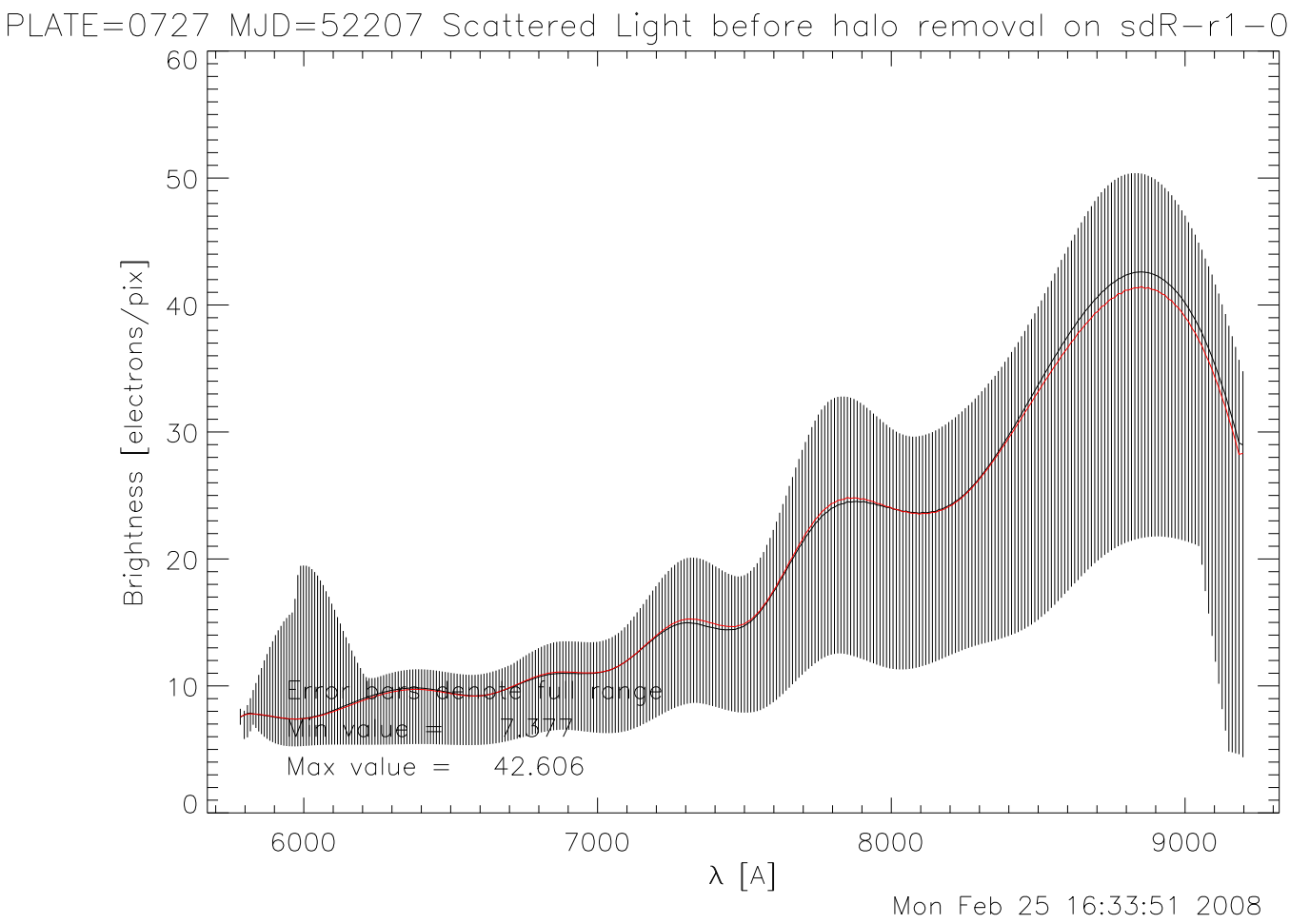

Number of sky fibers = 13
PLATE=0727 MJD=52207 sdR-r1-00011507.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

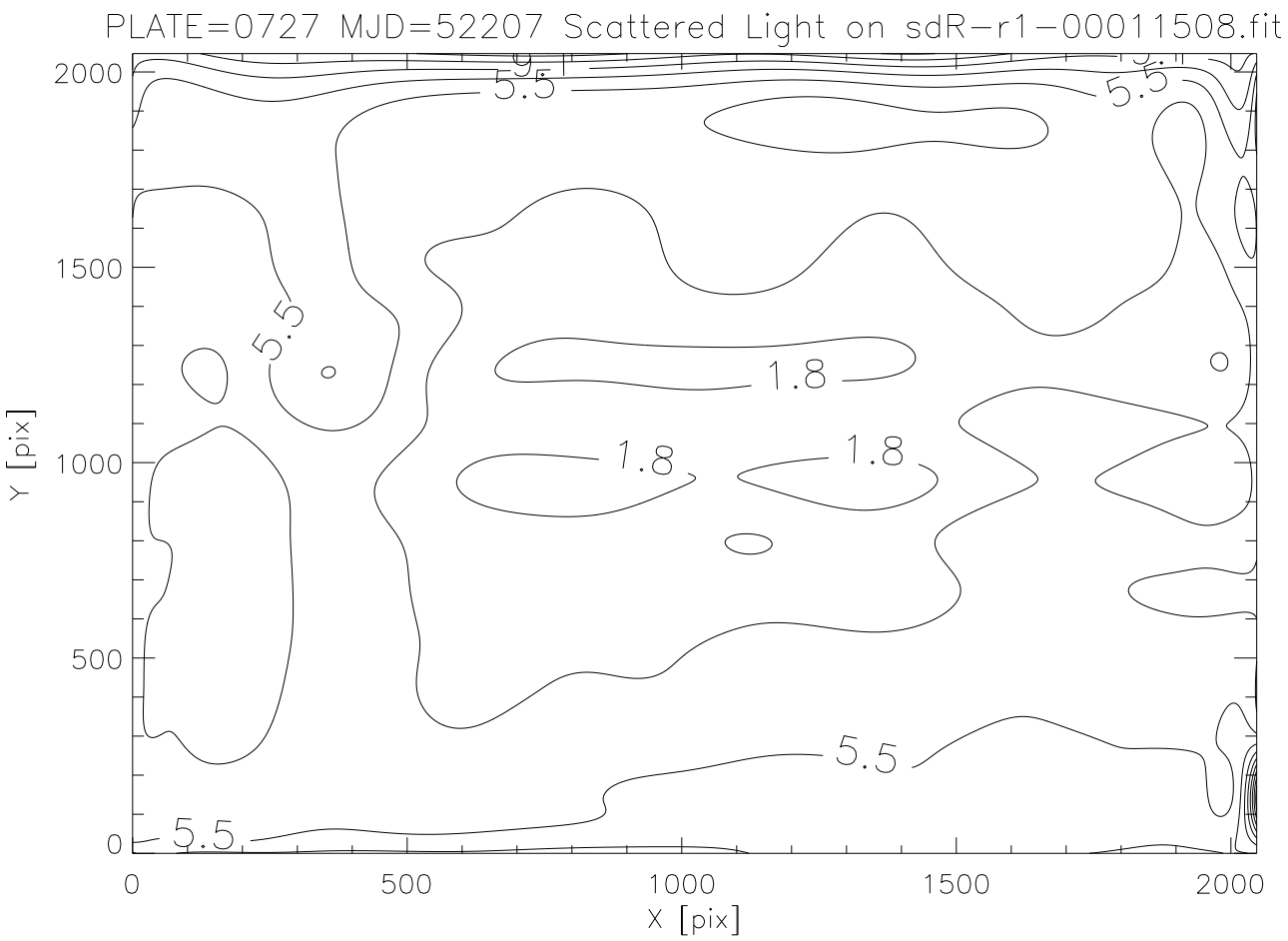

PLATE=0727 MJD=52207 sdR-r1-00011507.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.95 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

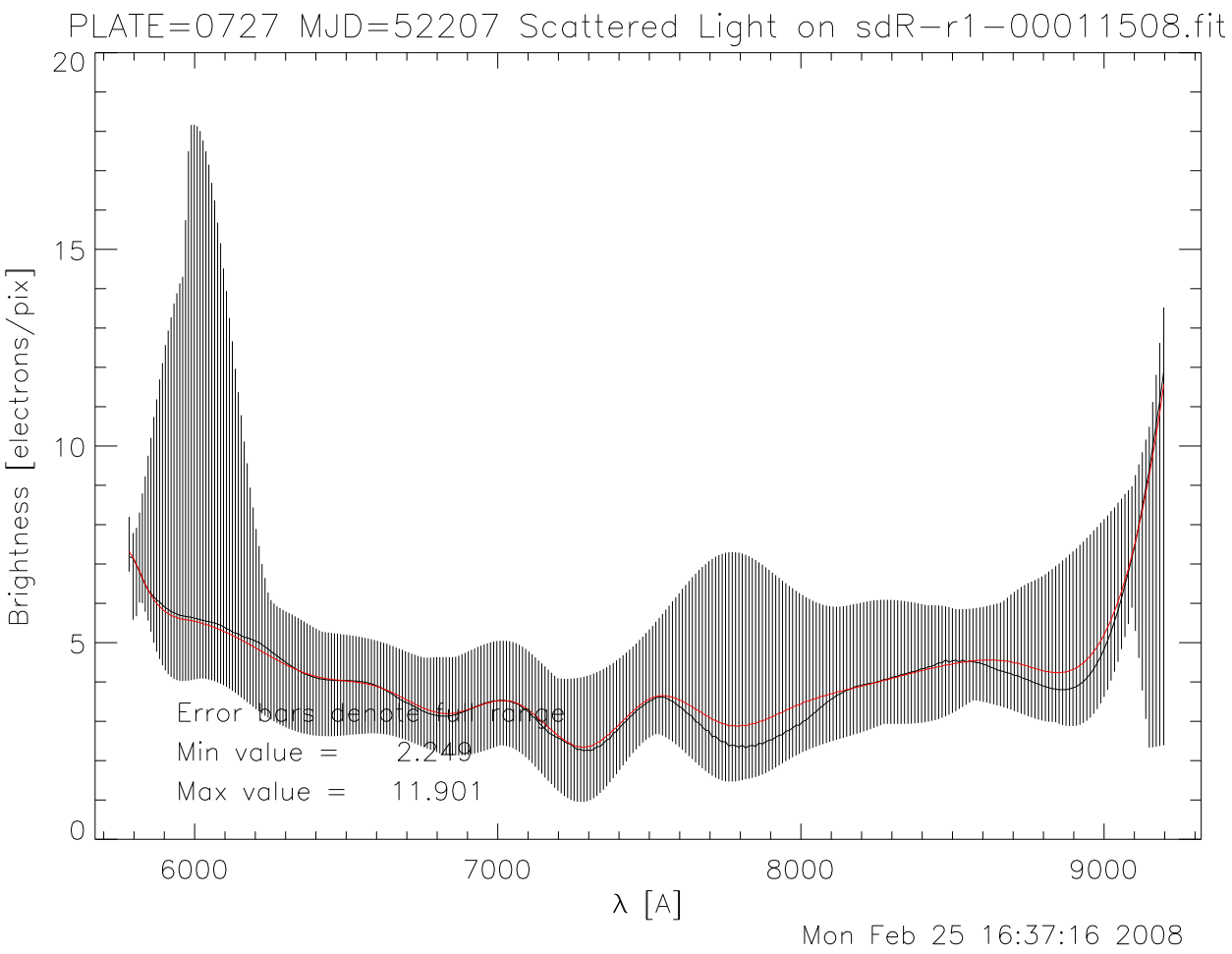

PLATE=0727 MJD=52207 sdR-r1-00011507.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.56 %
Fiber number
Focal Distance [mm]
Airmass

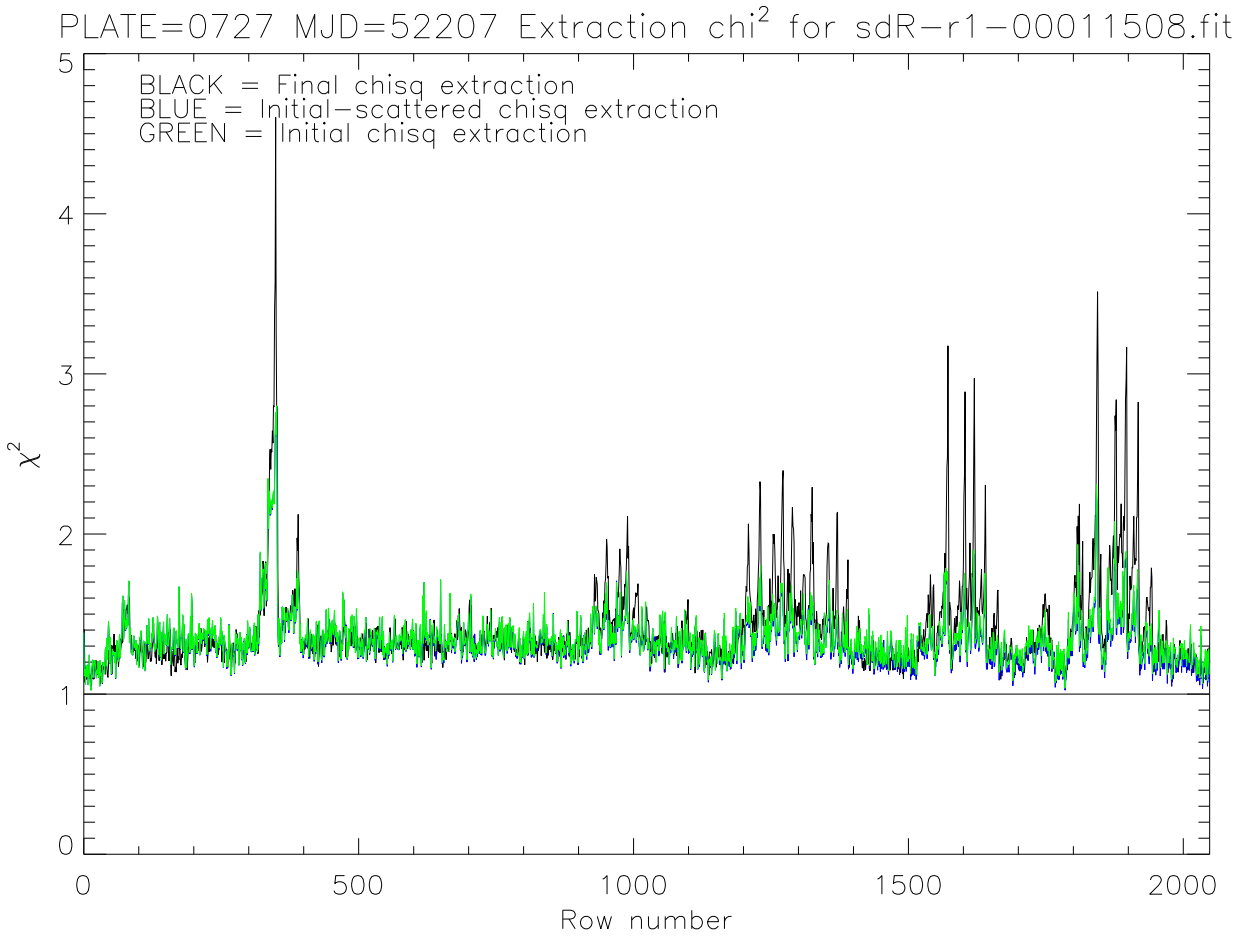

PLATE=0727 MJD=52207 Fiber−Flats for sdR−r1−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.621
Max value = 1.407
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 16:32:55 2008

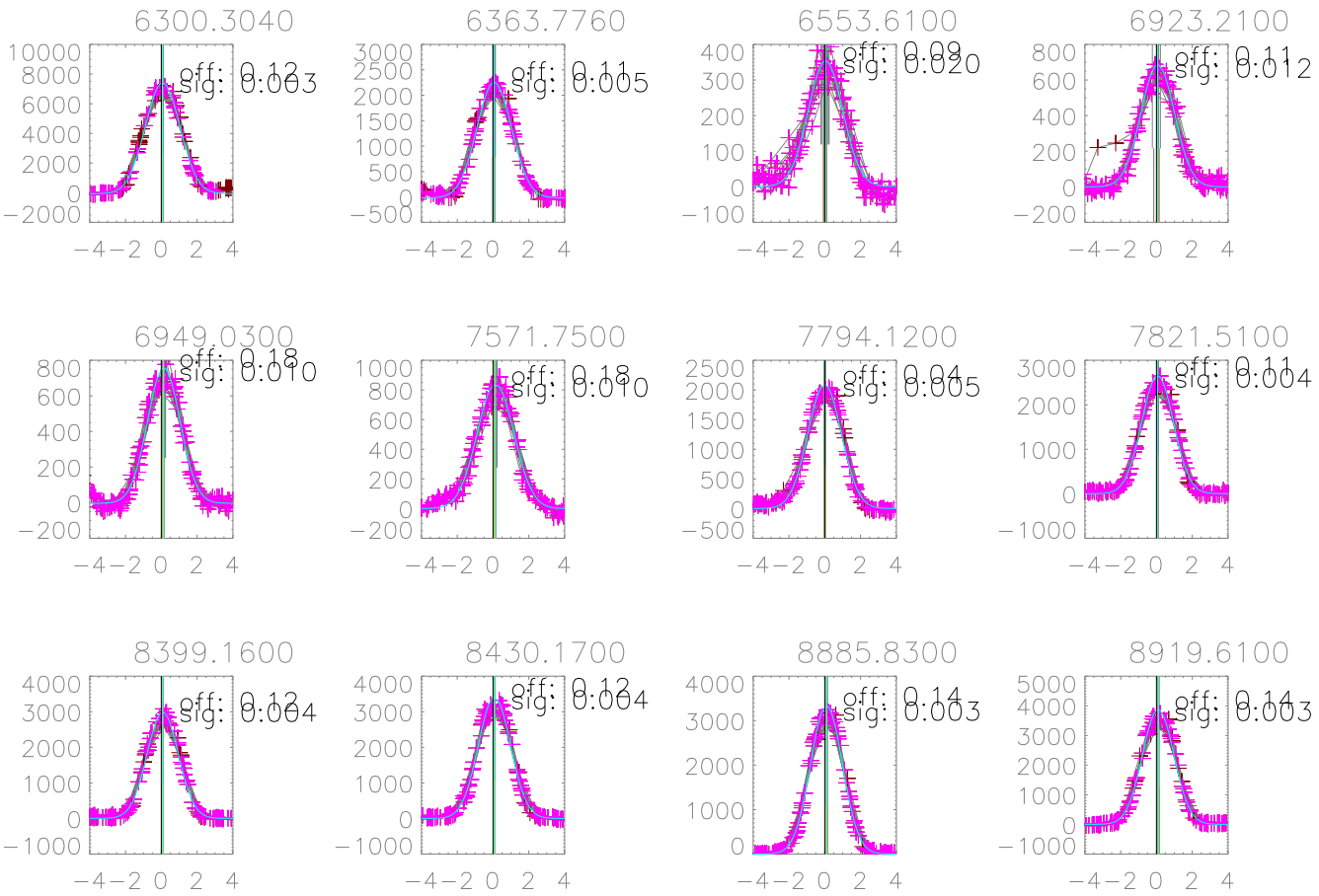

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r1-00011508.fi
38.2
27.3
16.4
5.5
Y [pix]
X [pix]
0
500
1000
1500
2000

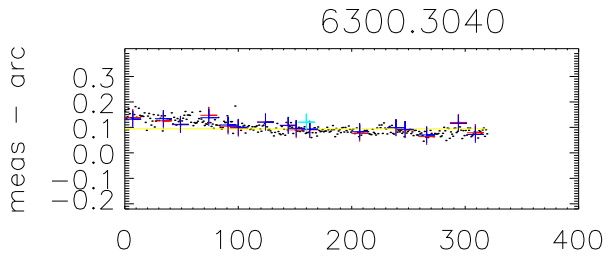

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r1-00011508.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.377
Max value = 42.606
Mon Feb 25 16:33:51 2008

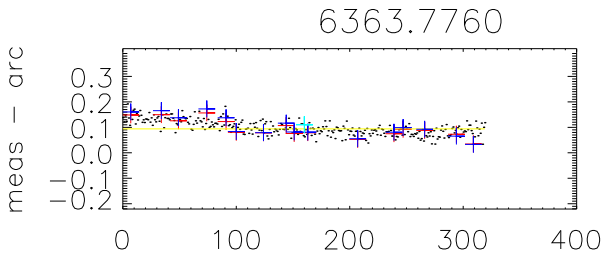

PLATE=0727 MJD=52207 Scattered Light on sdR−r1−00011508.fit
5.5
5.5
5.5
1.8
1.8
1.8
5.5
5.5
0
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

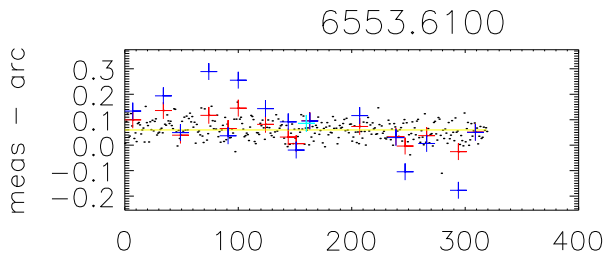

PLATE=0727 MJD=52207 Scattered Light on sdR-r1-00011508.fit
Brightness [electrons/pix]
λ [A]
Error bars denote 5σ range
Min value = 2.249
Max value = 11.901
Mon Feb 25 16:37:16 2008

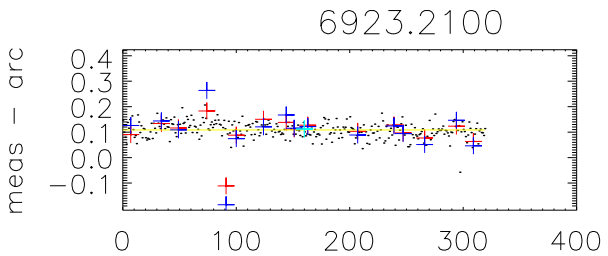

PLATE=0727 MJD=52207 Extraction chi^2 for sdR−r1−00011508.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

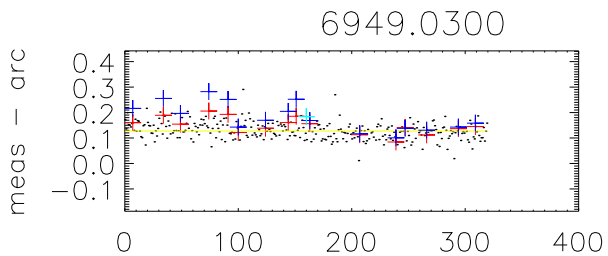

6300.3040
off: 0.12
sig: 0.003
6363.7760
off: 0.11
sig: 0.005
6553.6100
off: 0.09
sig: 0.020
6923.2100
off: 0.11
sig: 0.012
6949.0300
off: 0.18
sig: 0.010
7571.7500
off: 0.18
sig: 0.010
7794.1200
off: 0.04
sig: 0.005
7821.5100
off: 0.11
sig: 0.004
8399.1600
off: 0.12
sig: 0.004
8430.1700
off: 0.12
sig: 0.004
8885.8300
off: 0.14
sig: 0.003
8919.6100
off: 0.14
sig: 0.003

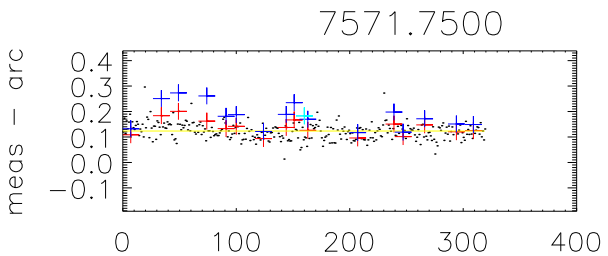

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

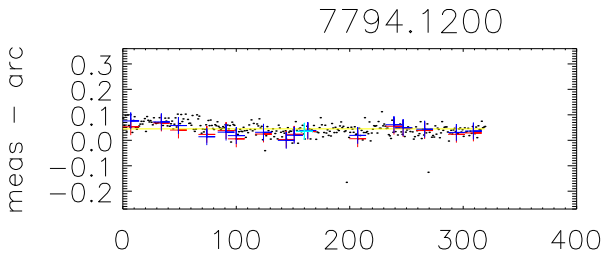

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

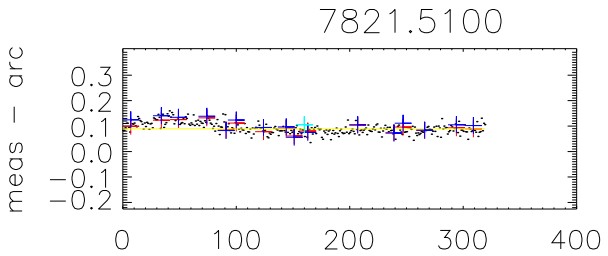

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

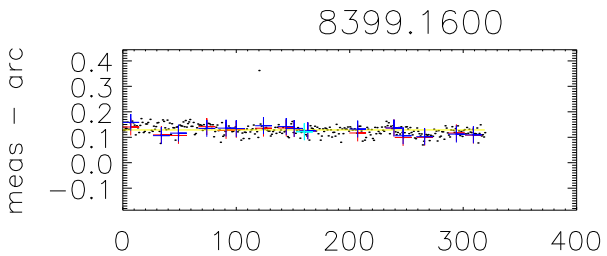

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

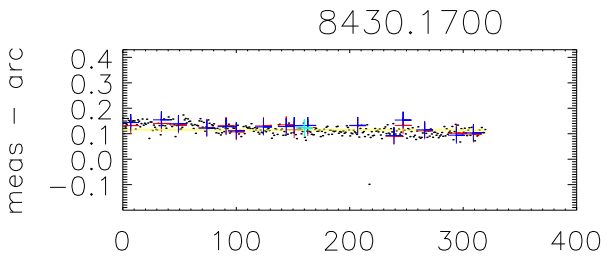

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

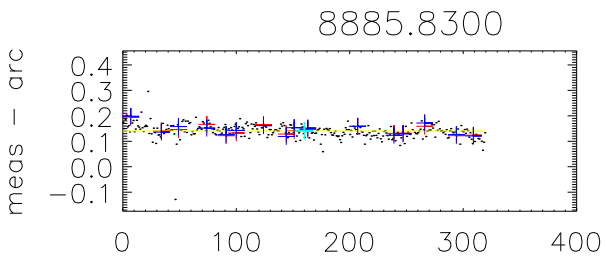

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

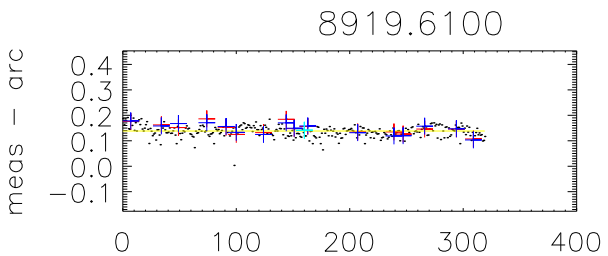

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

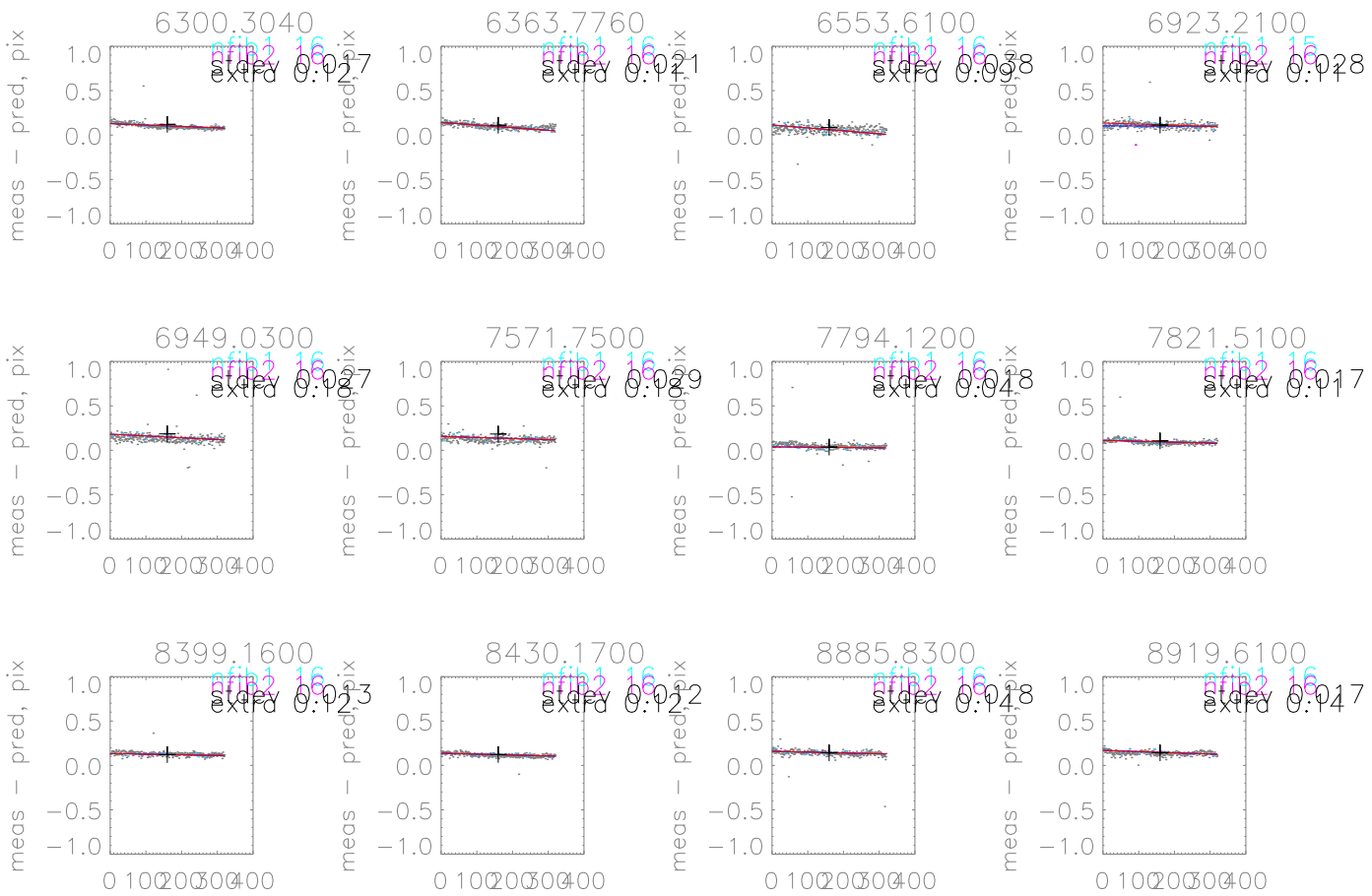

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

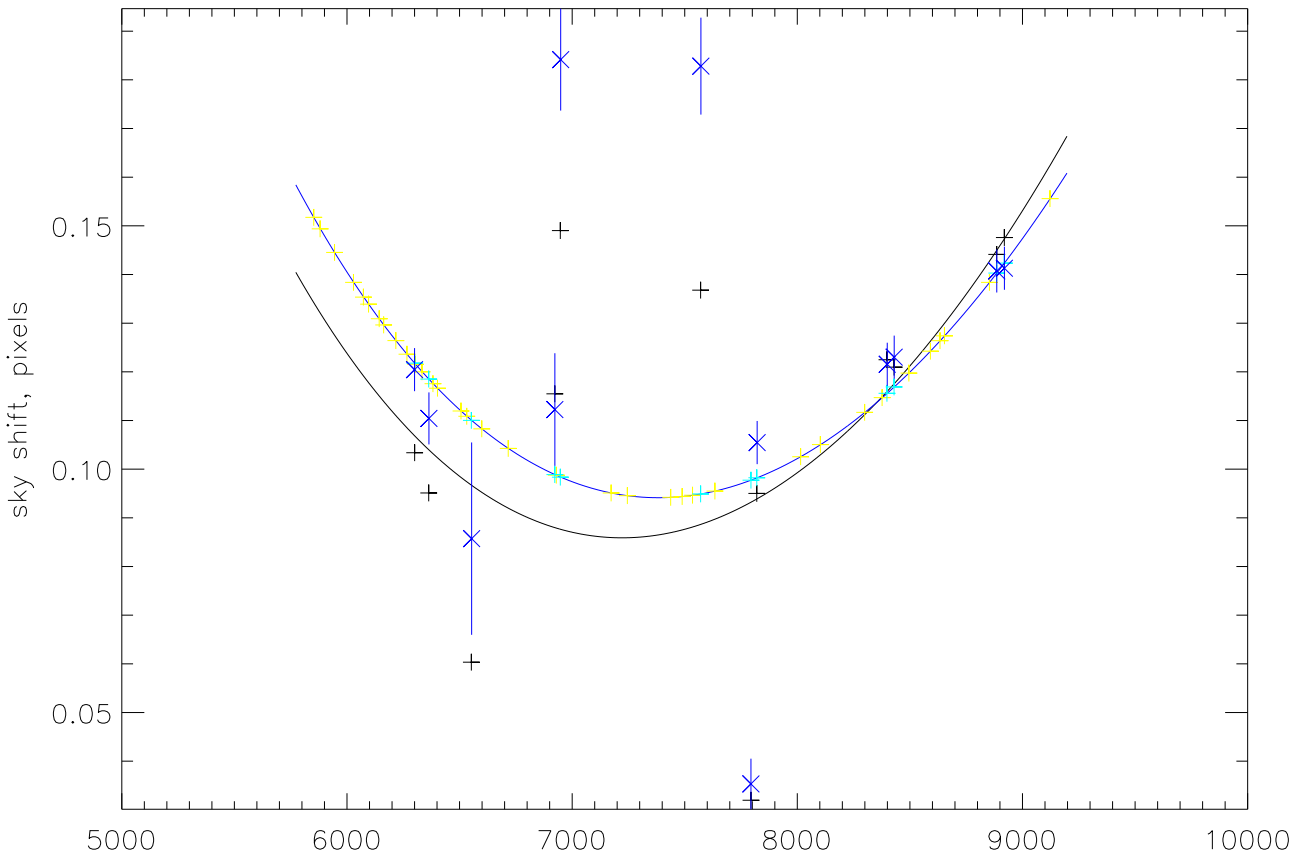

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

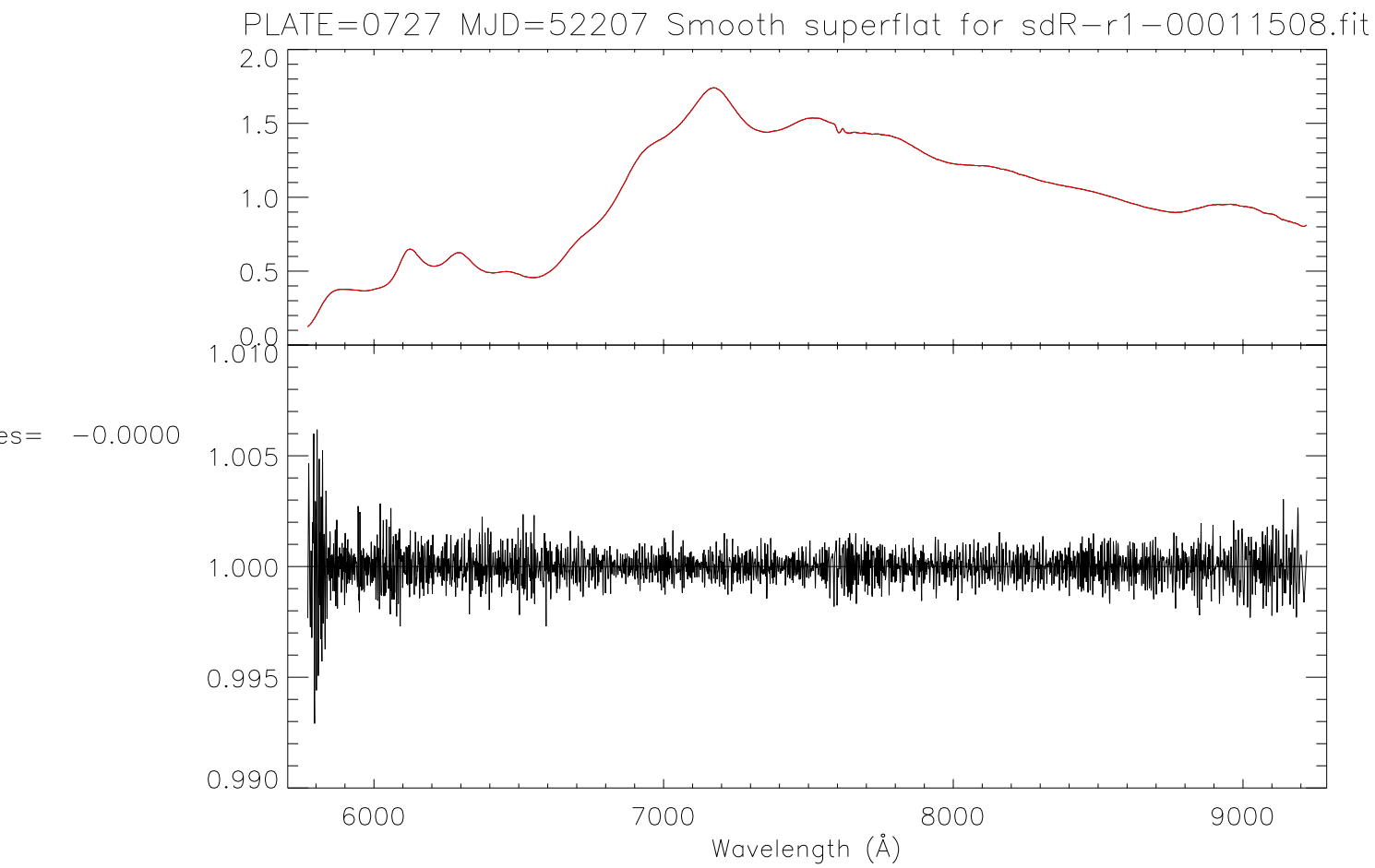

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

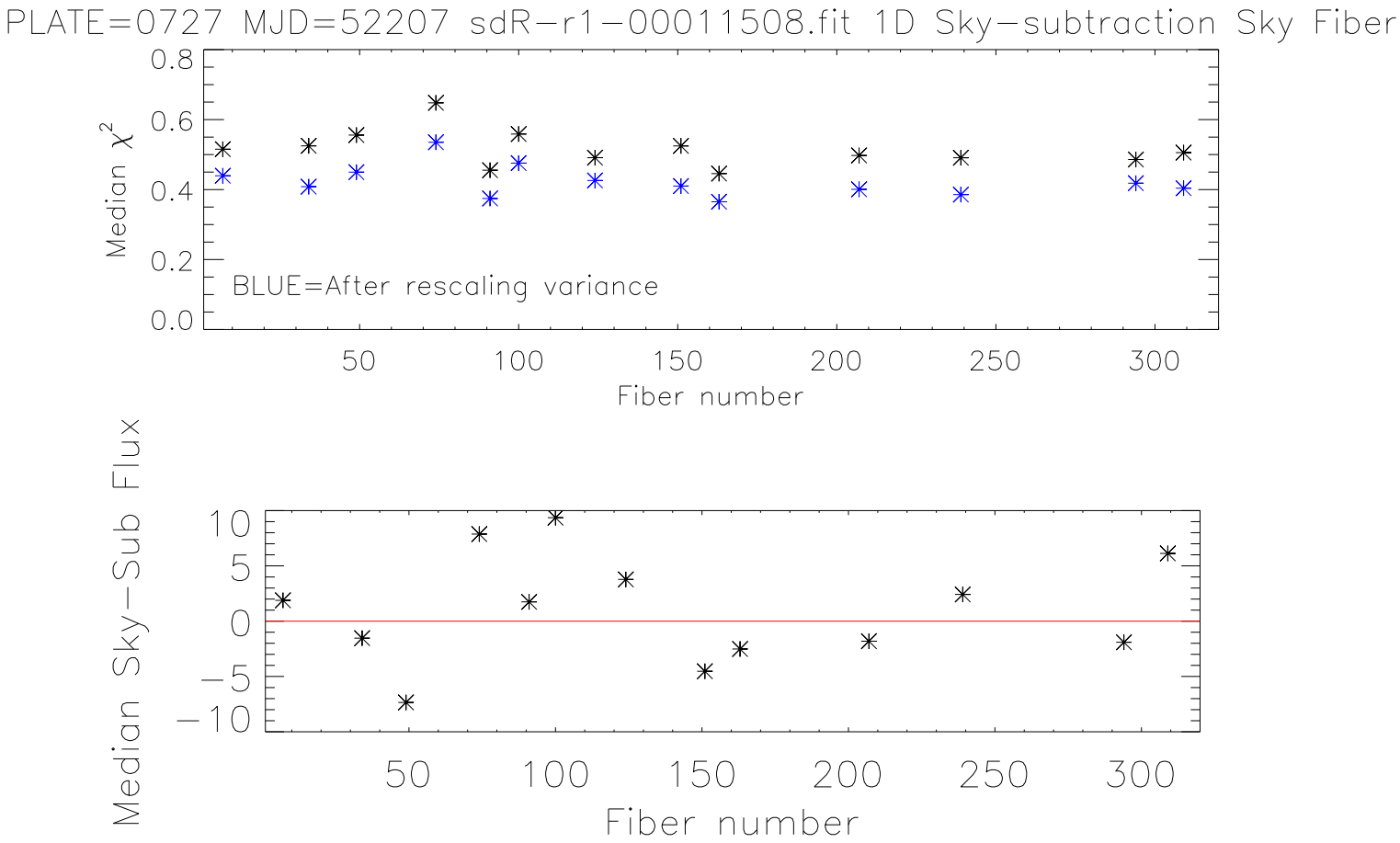

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

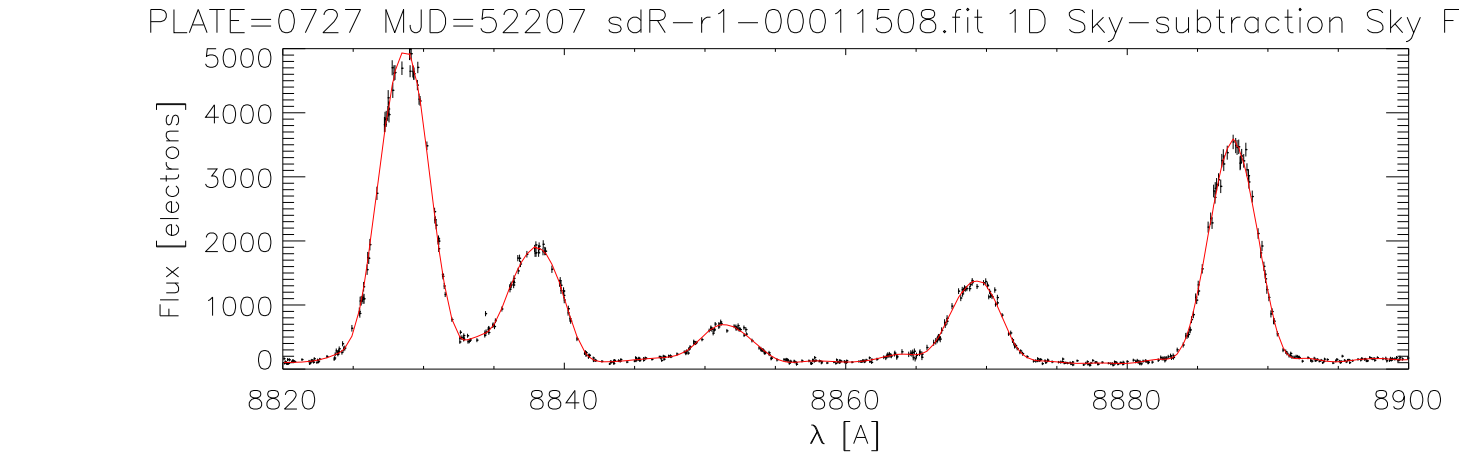

6300.3040
stdev 0.017
extra 0.12
6363.7760
stdev 0.021
extra 0.11
6553.6100
stdev 0.038
extra 0.09
6923.2100
stdev 0.028
extra 0.11
6949.0300
stdev 0.027
extra 0.18
7571.7500
stdev 0.029
extra 0.18
7794.1200
stdev 0.048
extra 0.04
7821.5100
stdev 0.017
extra 0.11
8399.1600
stdev 0.013
extra 0.12
8430.1700
stdev 0.012
extra 0.12
8885.8300
stdev 0.018
extra 0.14
8919.6100
stdev 0.017
extra 0.14
meas − pred, pix

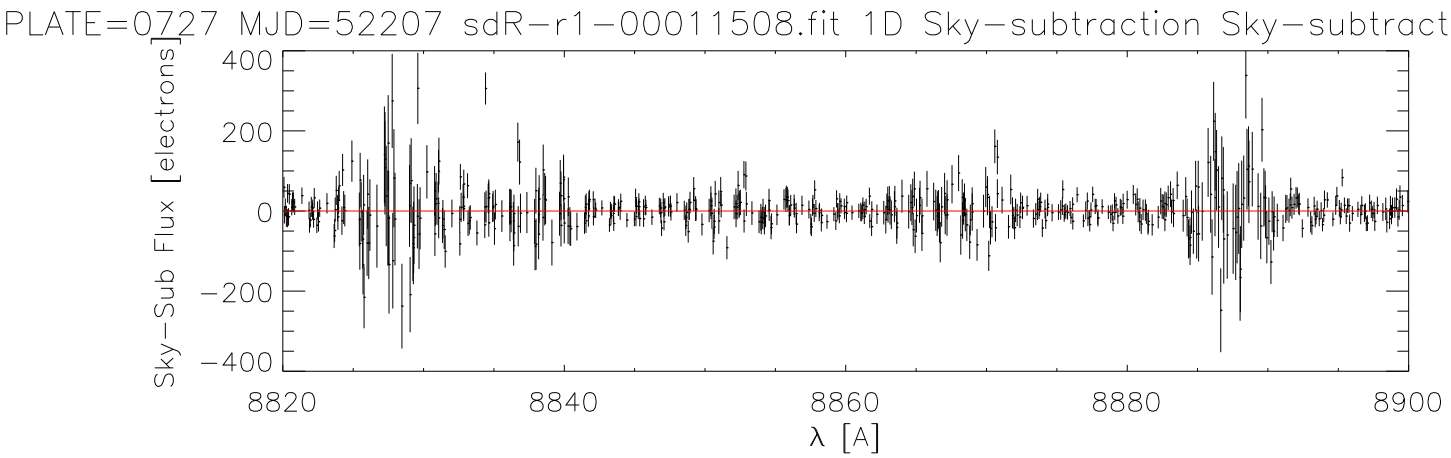

sky shift, pixels
0.15
0.10
0.05
5000
6000
7000
8000
9000
10000

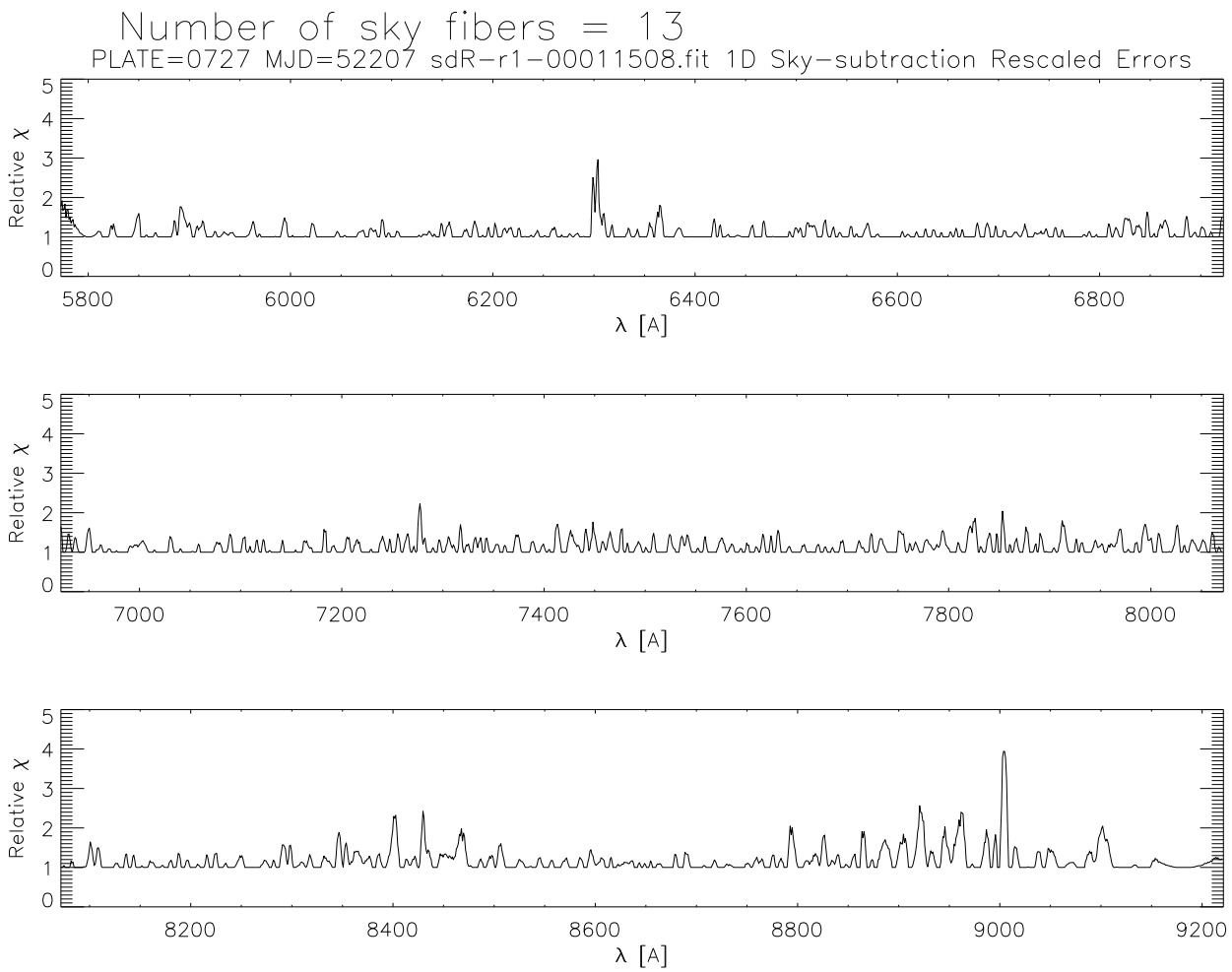

PLATE=0727 MJD=52207 Smooth superflat for sdR-r1-00011508.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

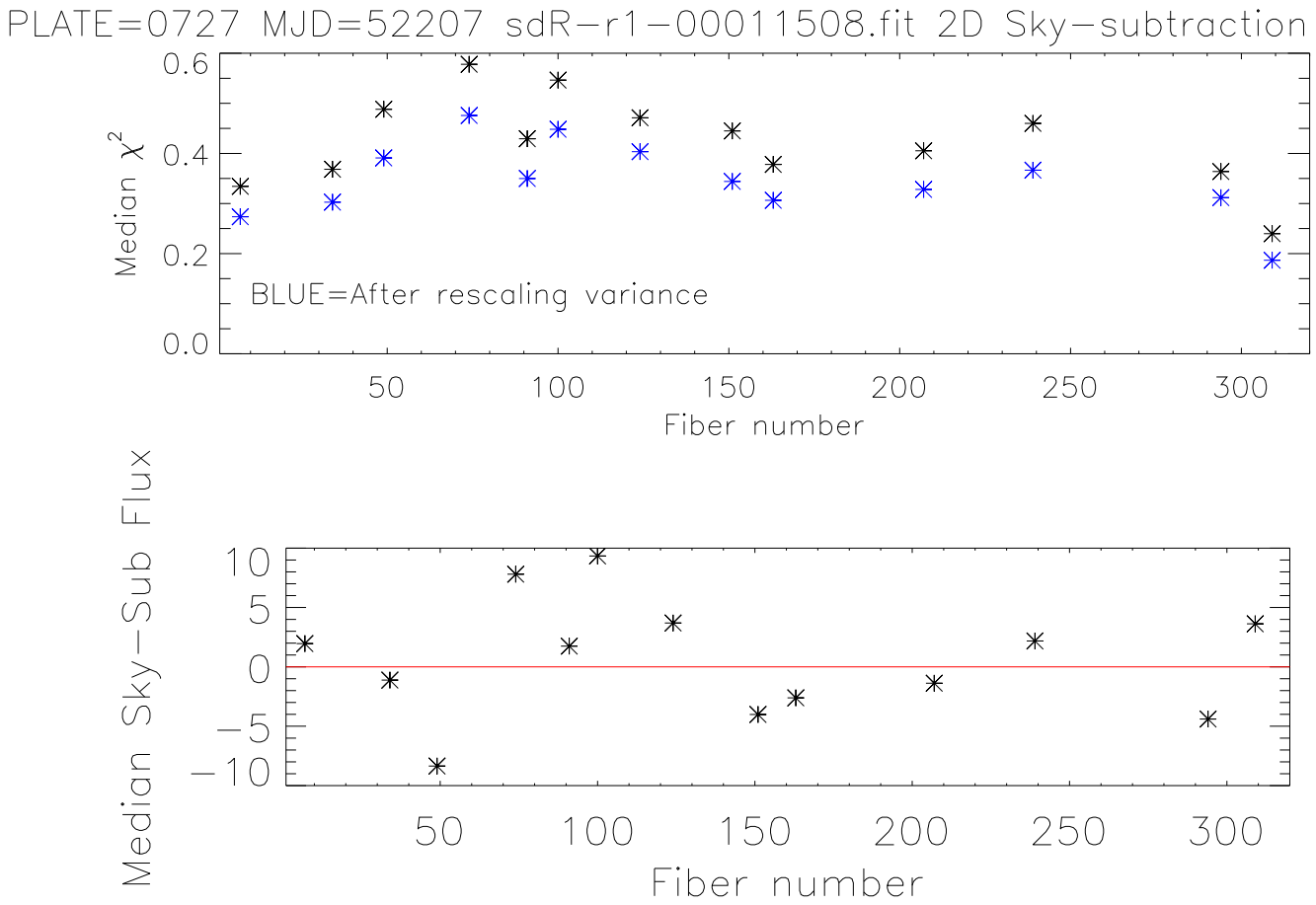
es= −0.0000

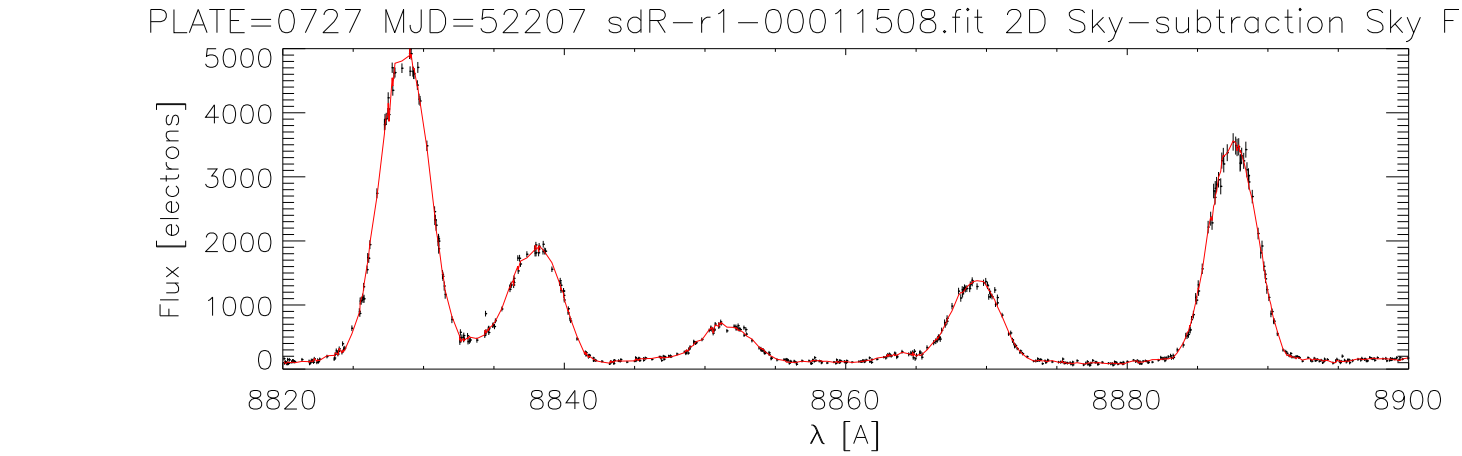

PLATE=0727 MJD=52207 sdR-r1-00011508.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

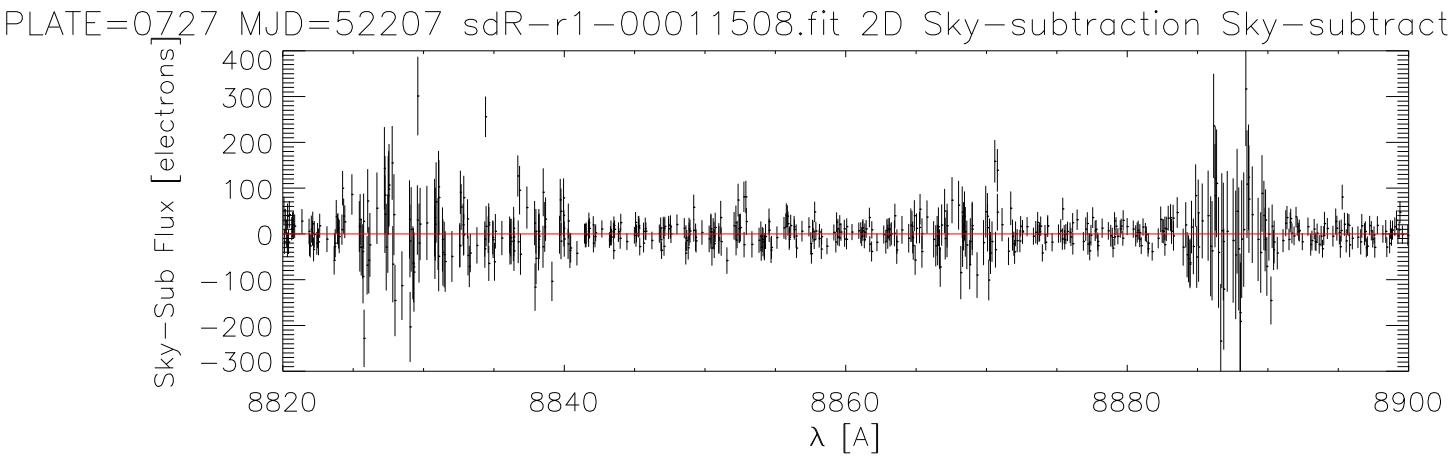

PLATE=0727 MJD=52207 sdR-r1-00011508.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

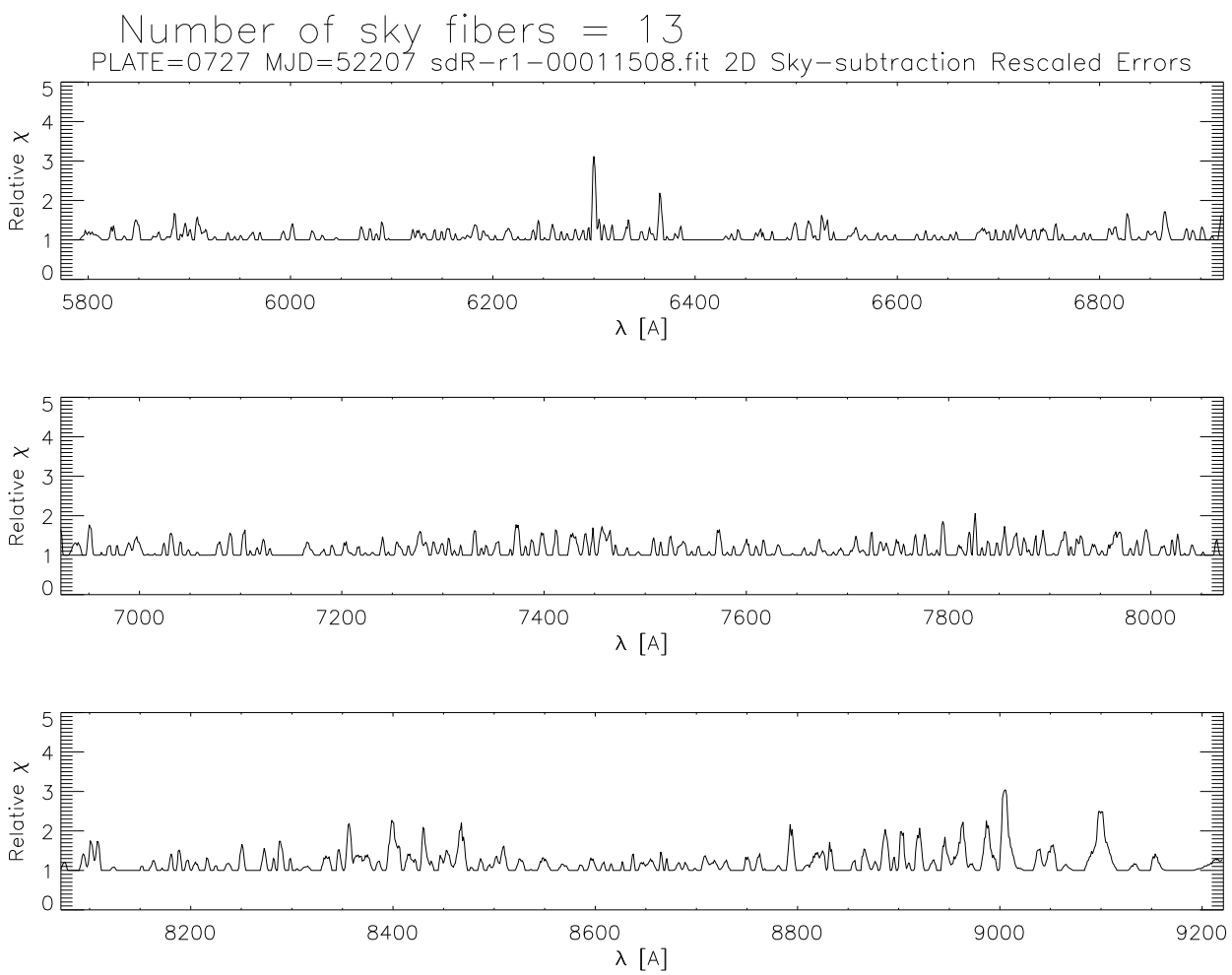

PLATE=0727 MJD=52207 sdR-r1-00011508.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

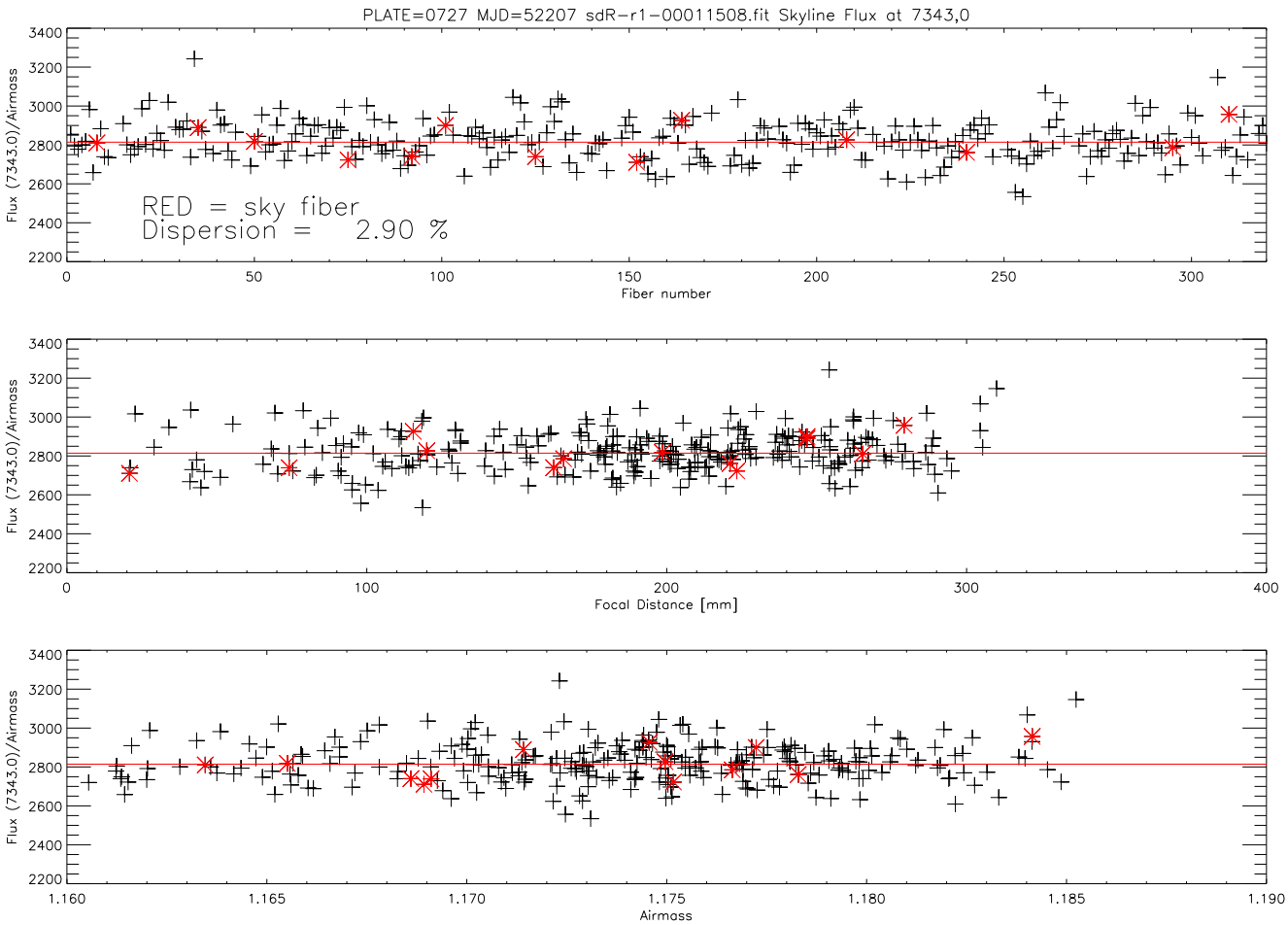

Number of sky fibers = 13
PLATE=0727 MJD=52207 sdR-r1-00011508.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

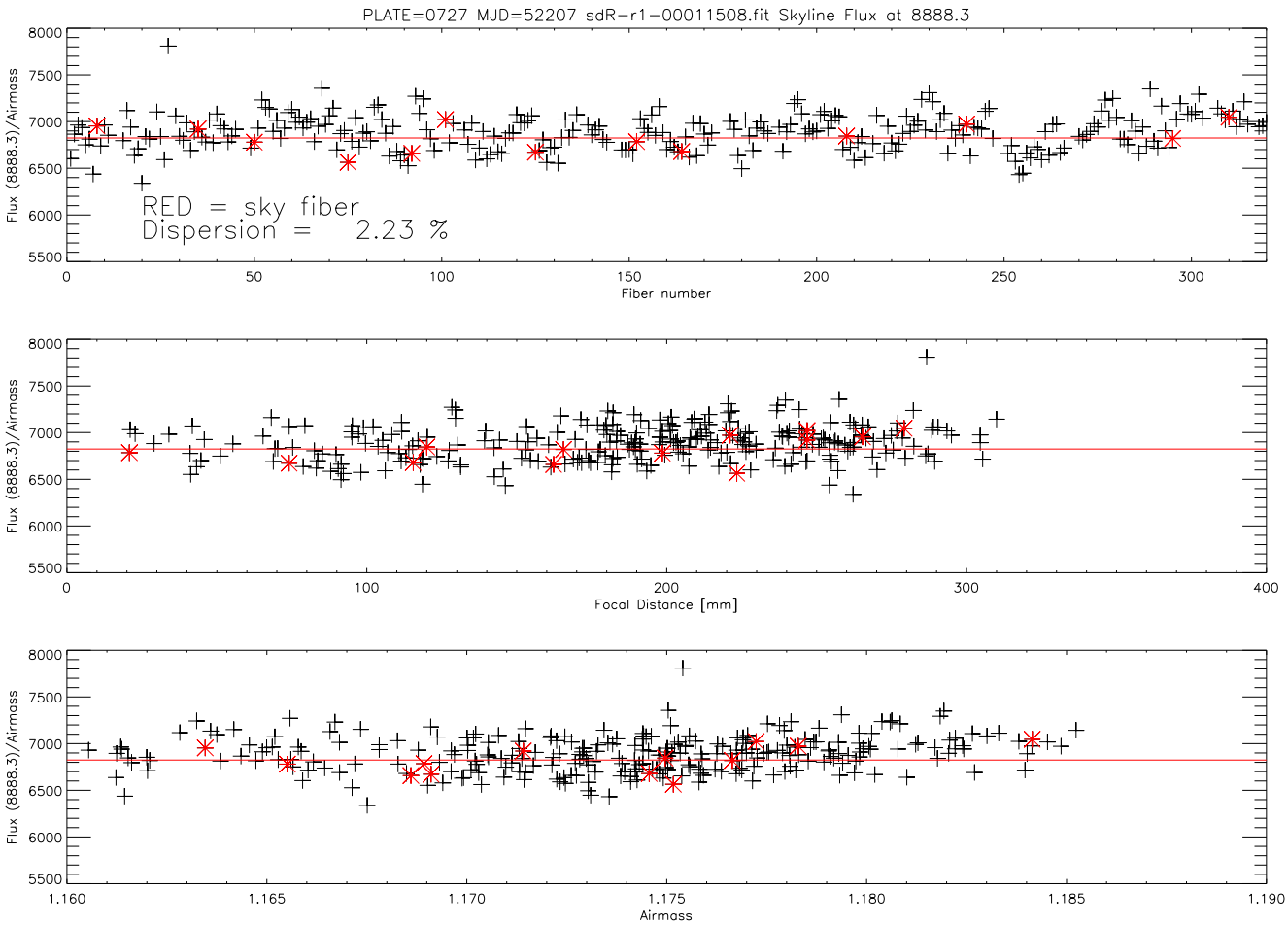

PLATE=0727 MJD=52207 sdR-r1-00011508.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

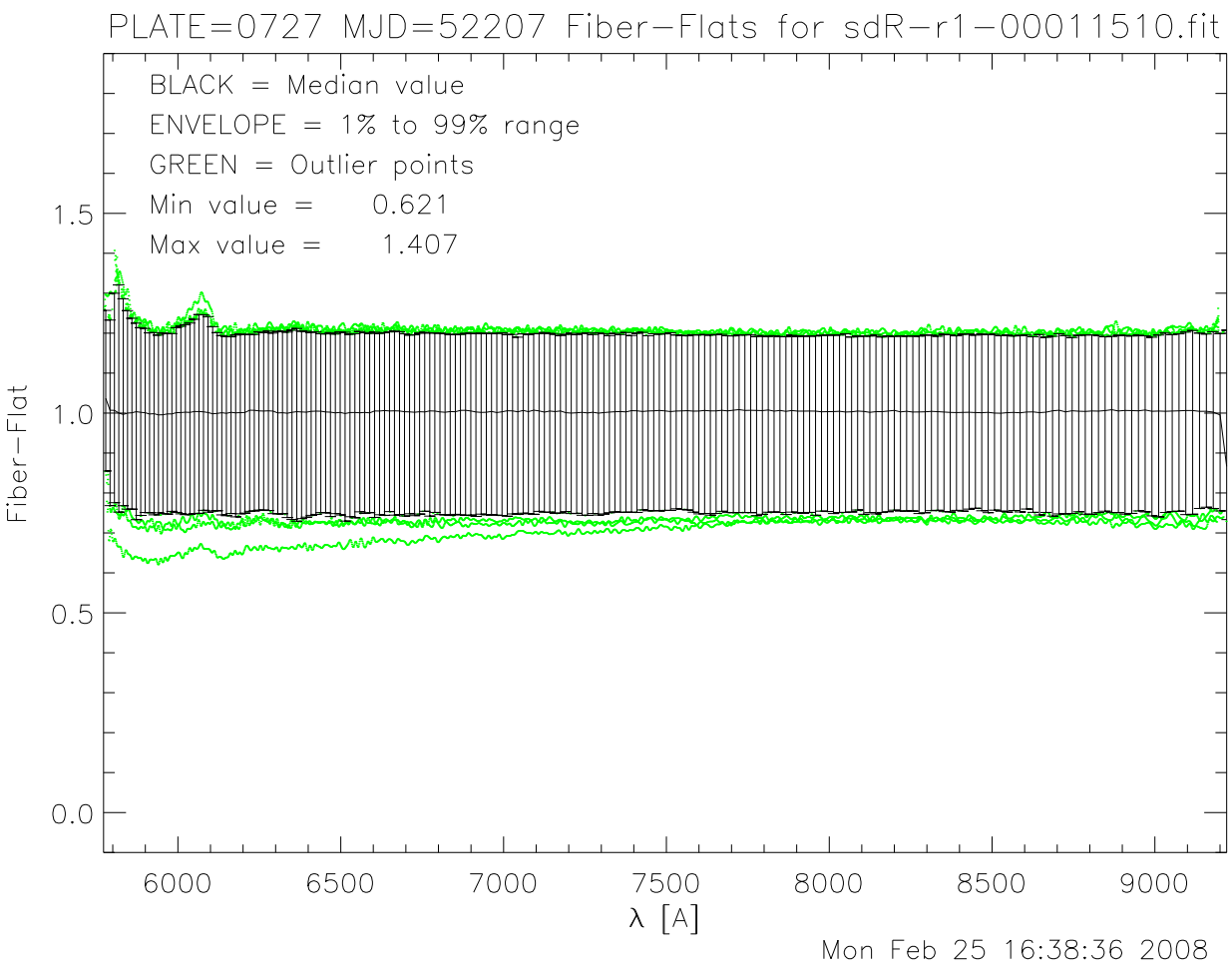

PLATE=0727 MJD=52207 sdR-r1-00011508.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

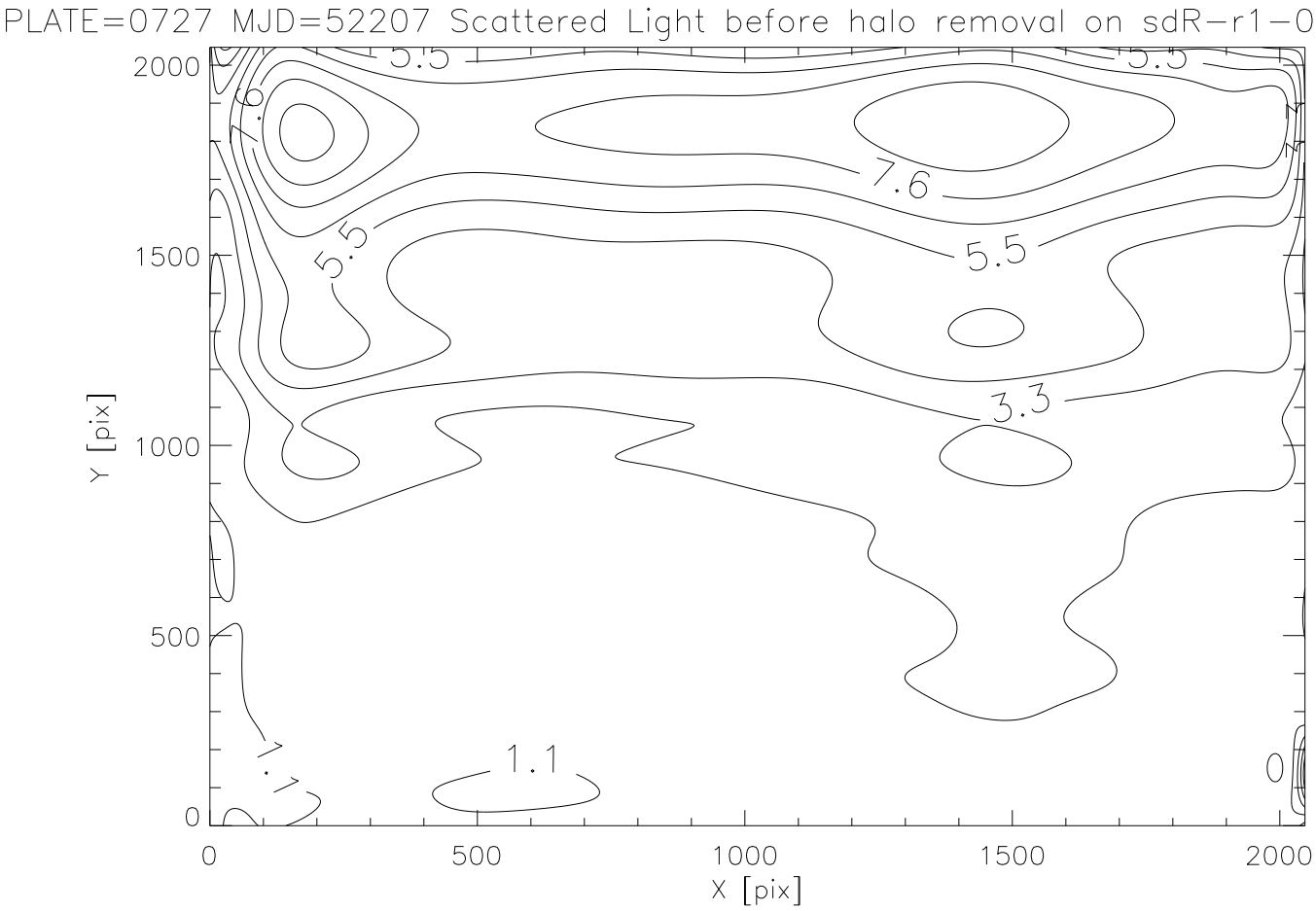

PLATE=0727 MJD=52207 sdR-r1-00011508.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

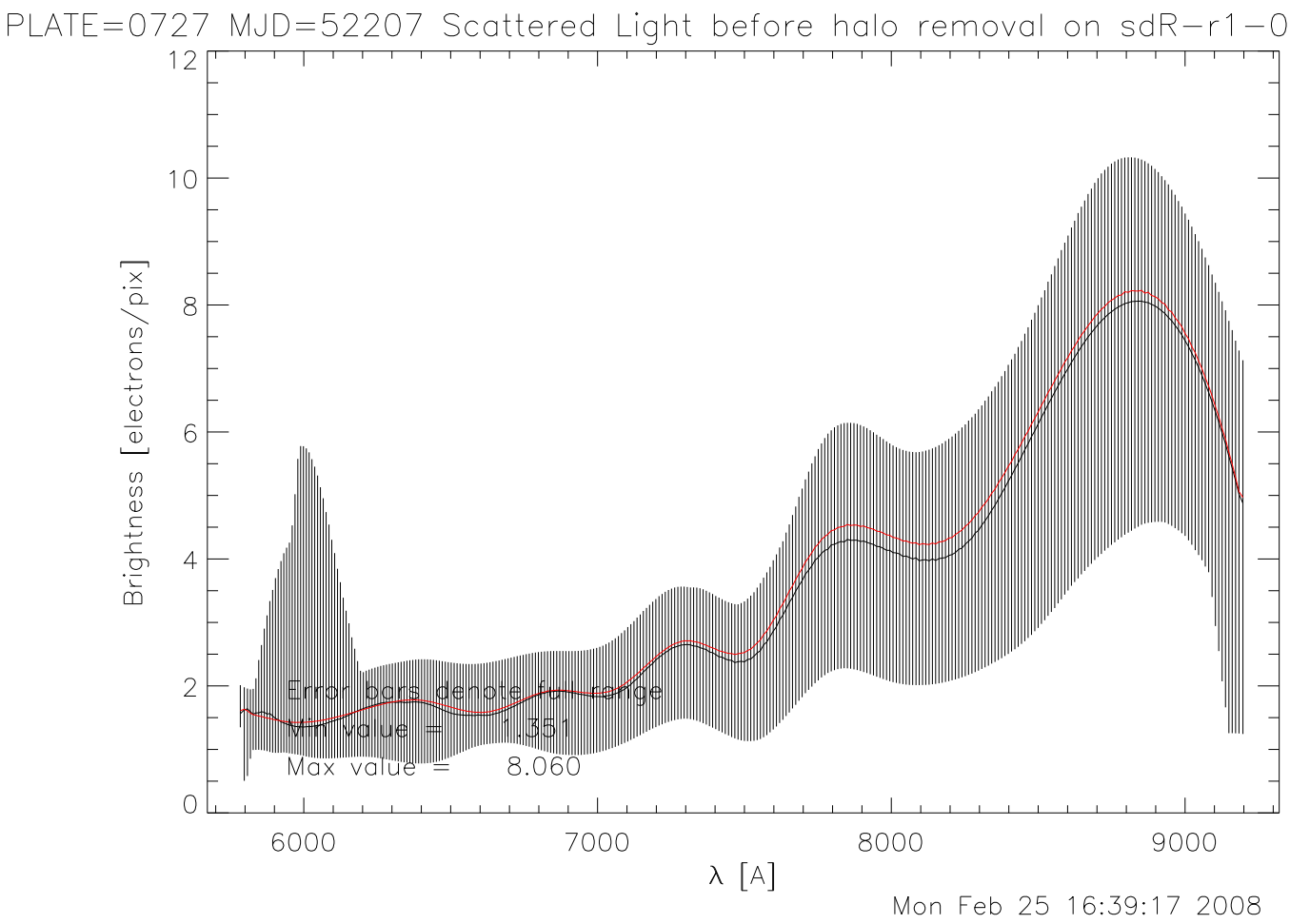

Number of sky fibers = 13
PLATE=0727 MJD=52207 sdR-r1-00011508.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

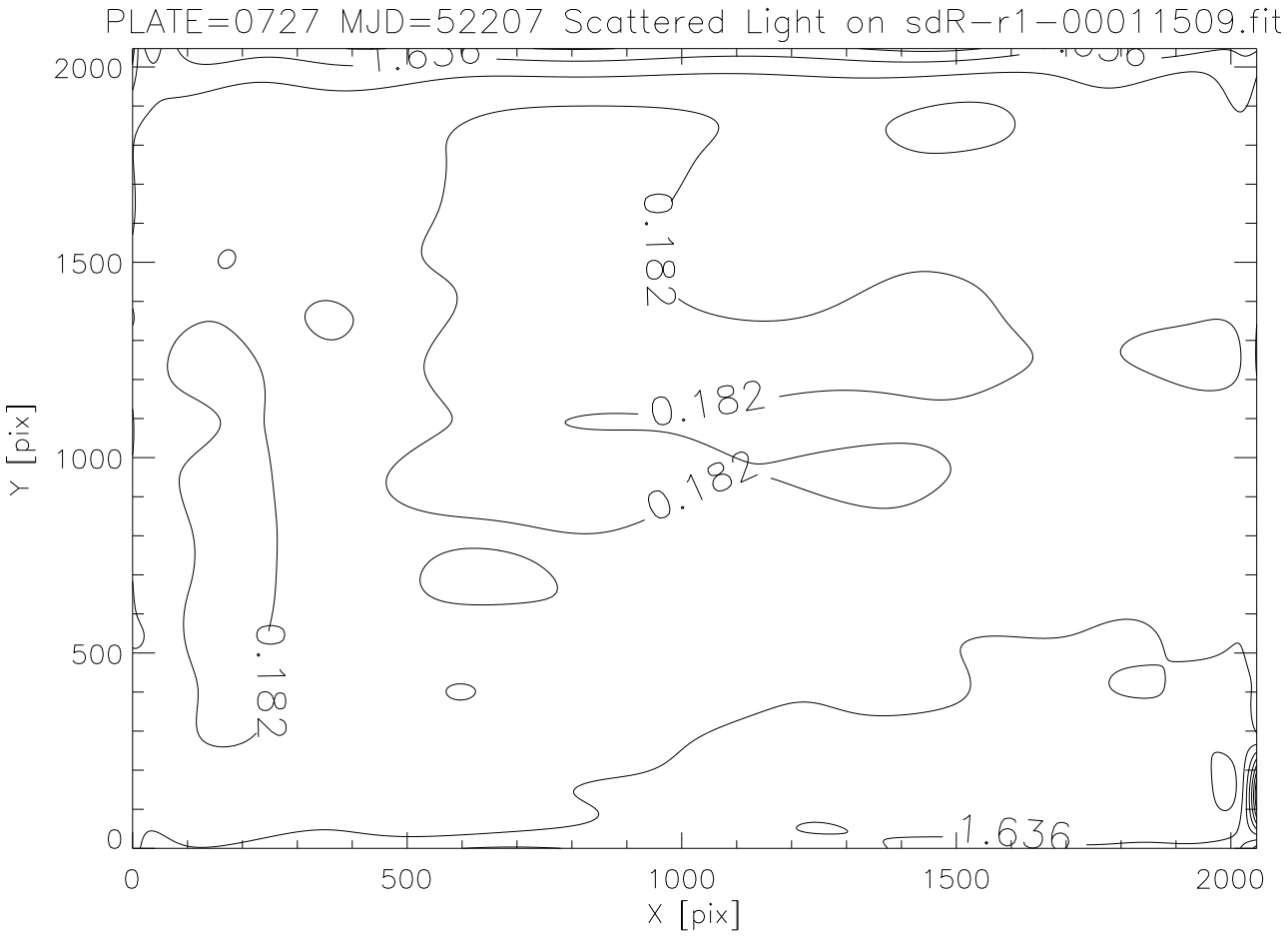

PLATE=0727 MJD=52207 sdR-r1-00011508.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.90 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

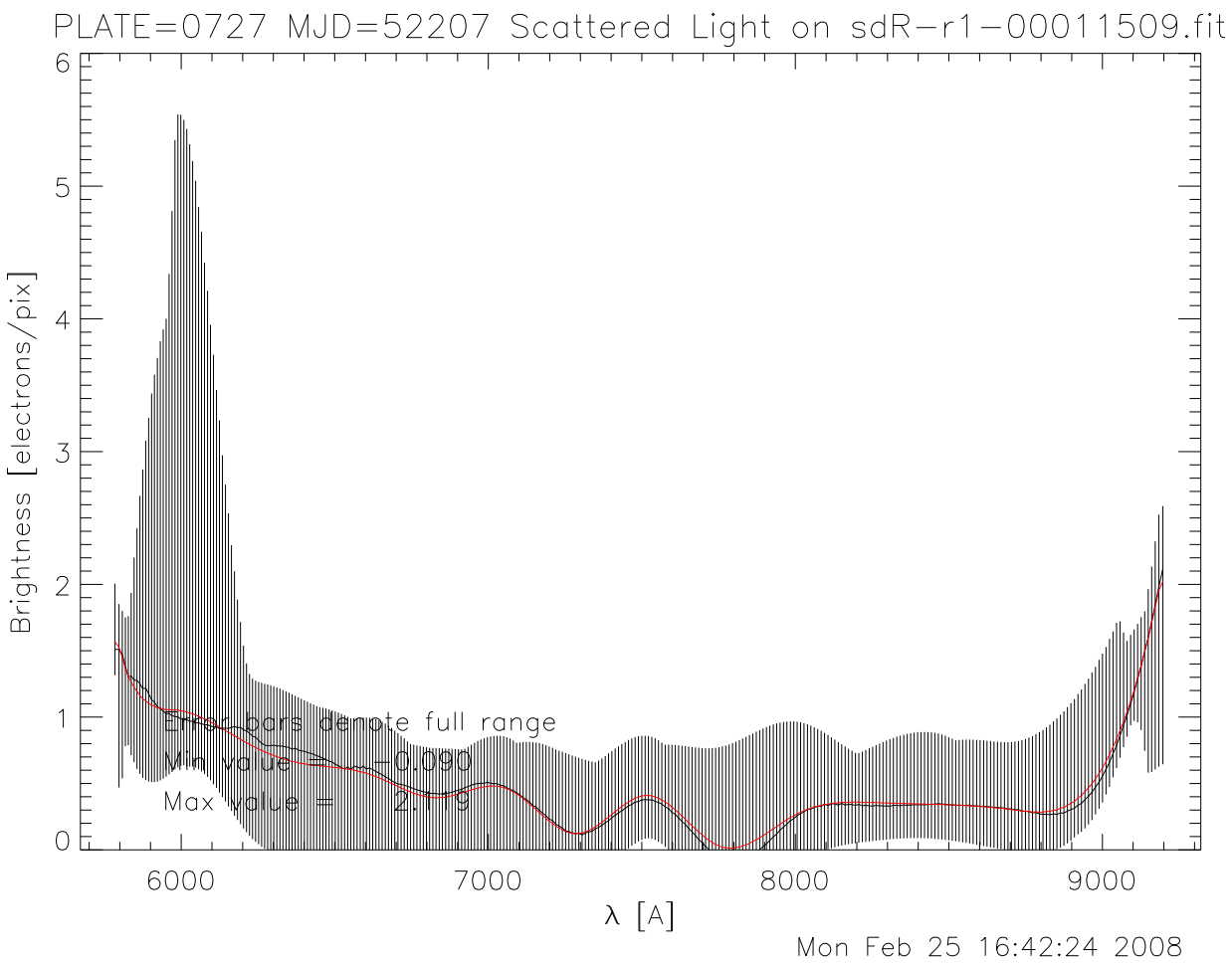

PLATE=0727 MJD=52207 sdR-r1-00011508.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.23 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

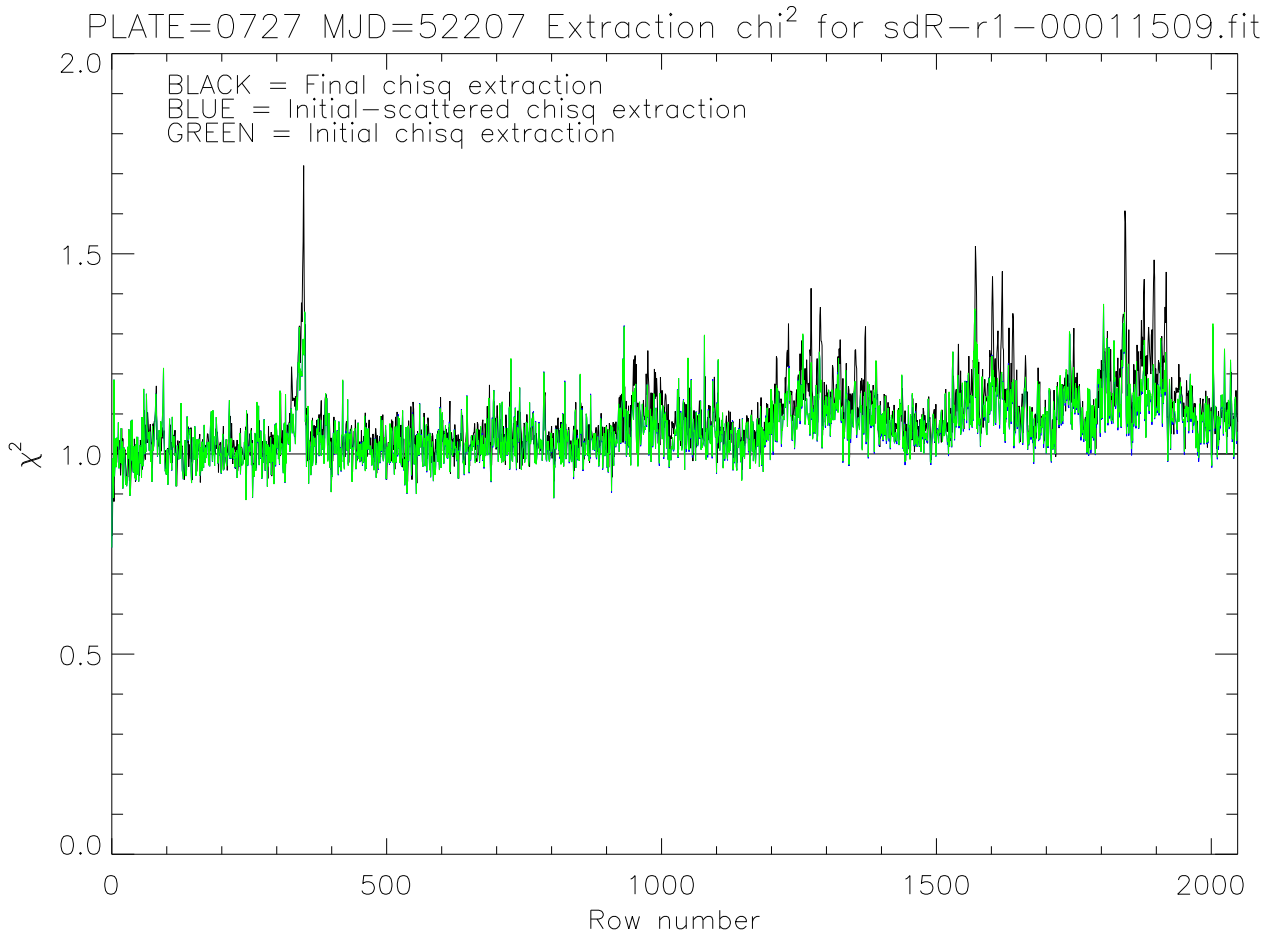

PLATE=0727 MJD=52207 Fiber−Flats for sdR−r1−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.621
Max value = 1.407
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 16:38:36 2008

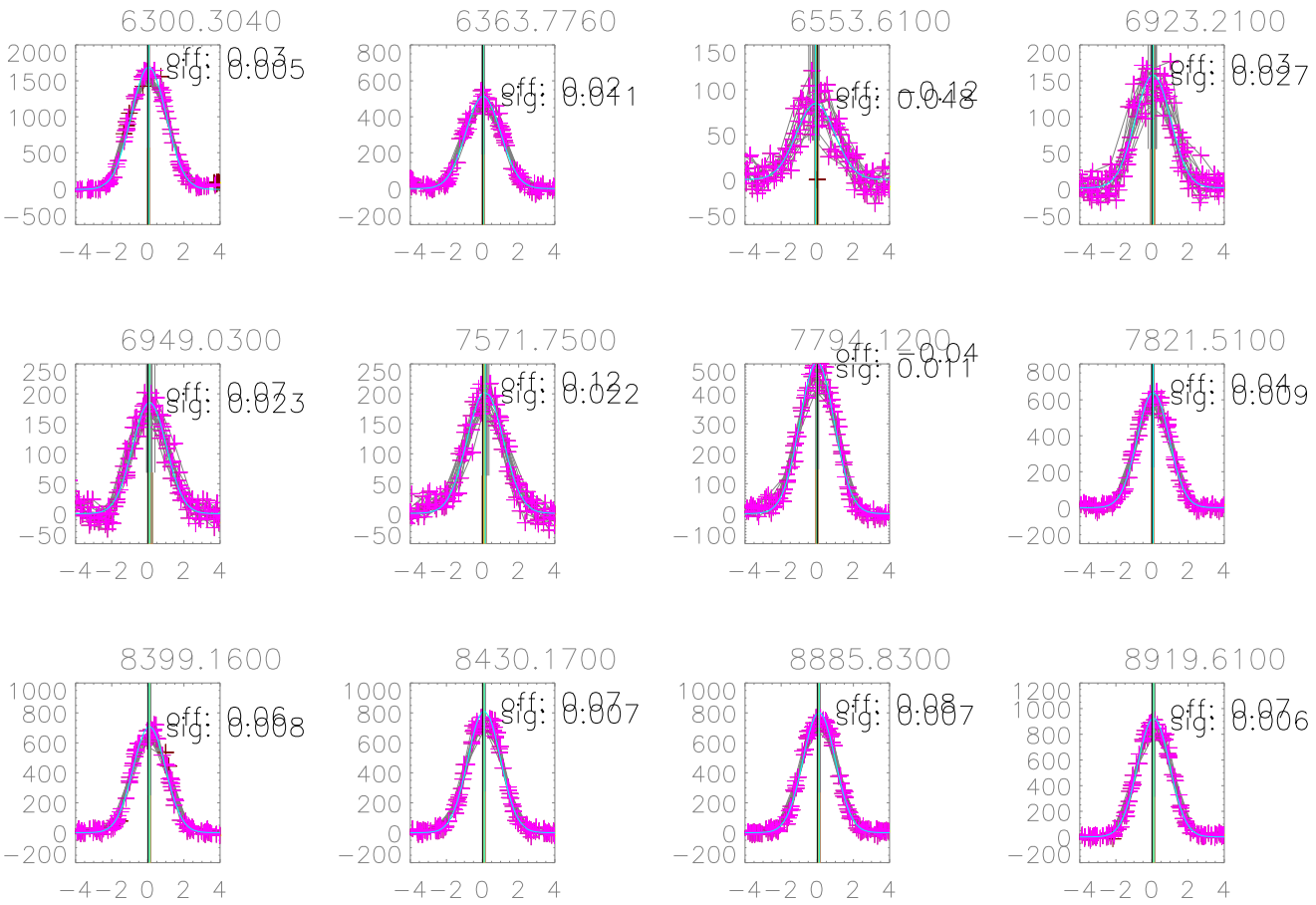

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r1-00011509.fi
5.5
7.6
5.5
3.3
1.1
0
Y [pix]
X [pix]
0
500
1000
1500
2000

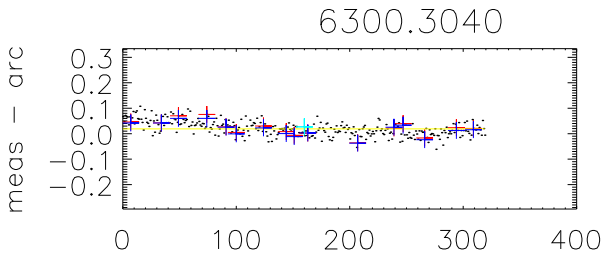

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r1-00011509.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = -.351
Max value = 8.060
Mon Feb 25 16:39:17 2008

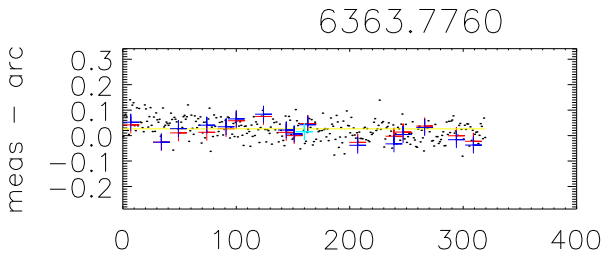

PLATE=0727 MJD=52207 Scattered Light on sdR-r1-00011509.fit
1.636
0.182
0.182
0.182
0.182
1.636
0
500
1000
1500
2000
Y [pix]
X [pix]

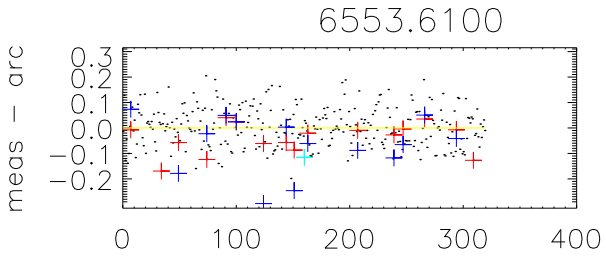

PLATE=0727 MJD=52207 Scattered Light on sdR-r1-00011509.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = -0.090
Max value = 2.116
Mon Feb 25 16:42:24 2008

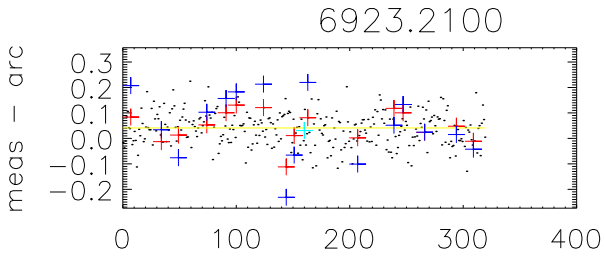

PLATE=0727 MJD=52207 Extraction chi^2 for sdR−r1−00011509.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

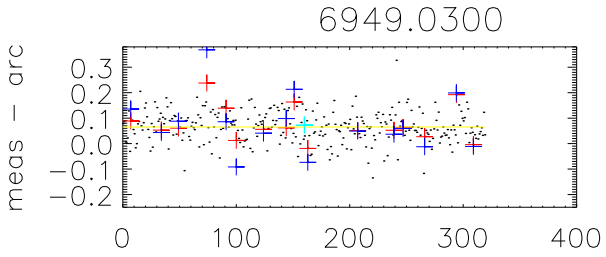

6300.3040
off: 0.03
sig: 0.005
6363.7760
off: 0.02
sig: 0.011
6553.6100
off: 0.12
sig: 0.048
6923.2100
off: 0.03
sig: 0.027
6949.0300
off: 0.07
sig: 0.023
7571.7500
off: 0.12
sig: 0.022
7794.1200
off: 0.04
sig: 0.011
7821.5100
off: 0.04
sig: 0.009
8399.1600
off: 0.06
sig: 0.008
8430.1700
off: 0.07
sig: 0.007
8885.8300
off: 0.08
sig: 0.007
8919.6100
off: 0.07
sig: 0.006

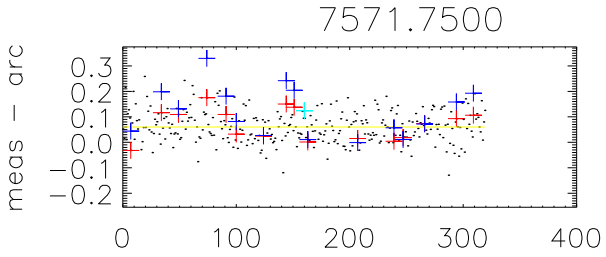

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

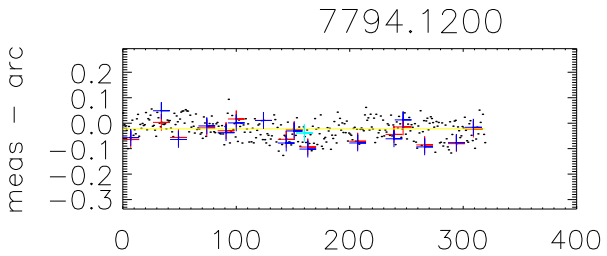

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

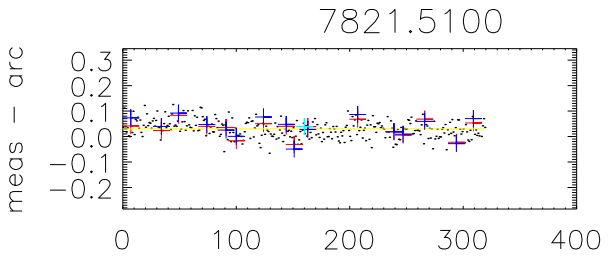

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

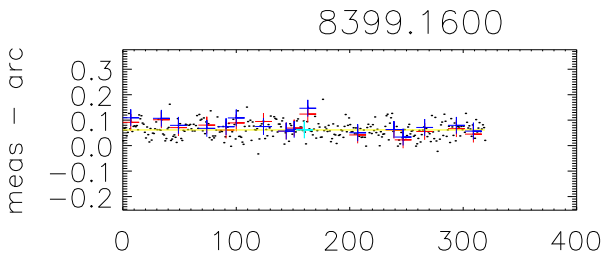

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

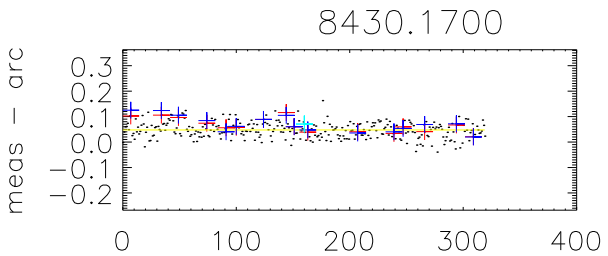

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

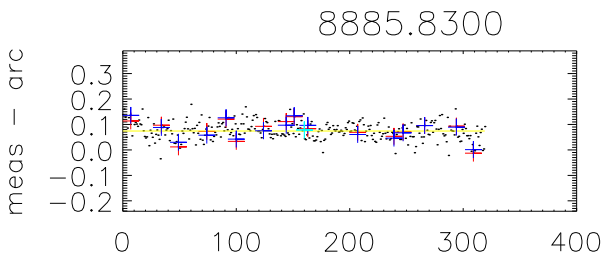

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

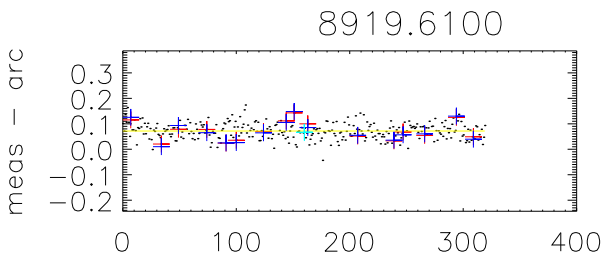

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

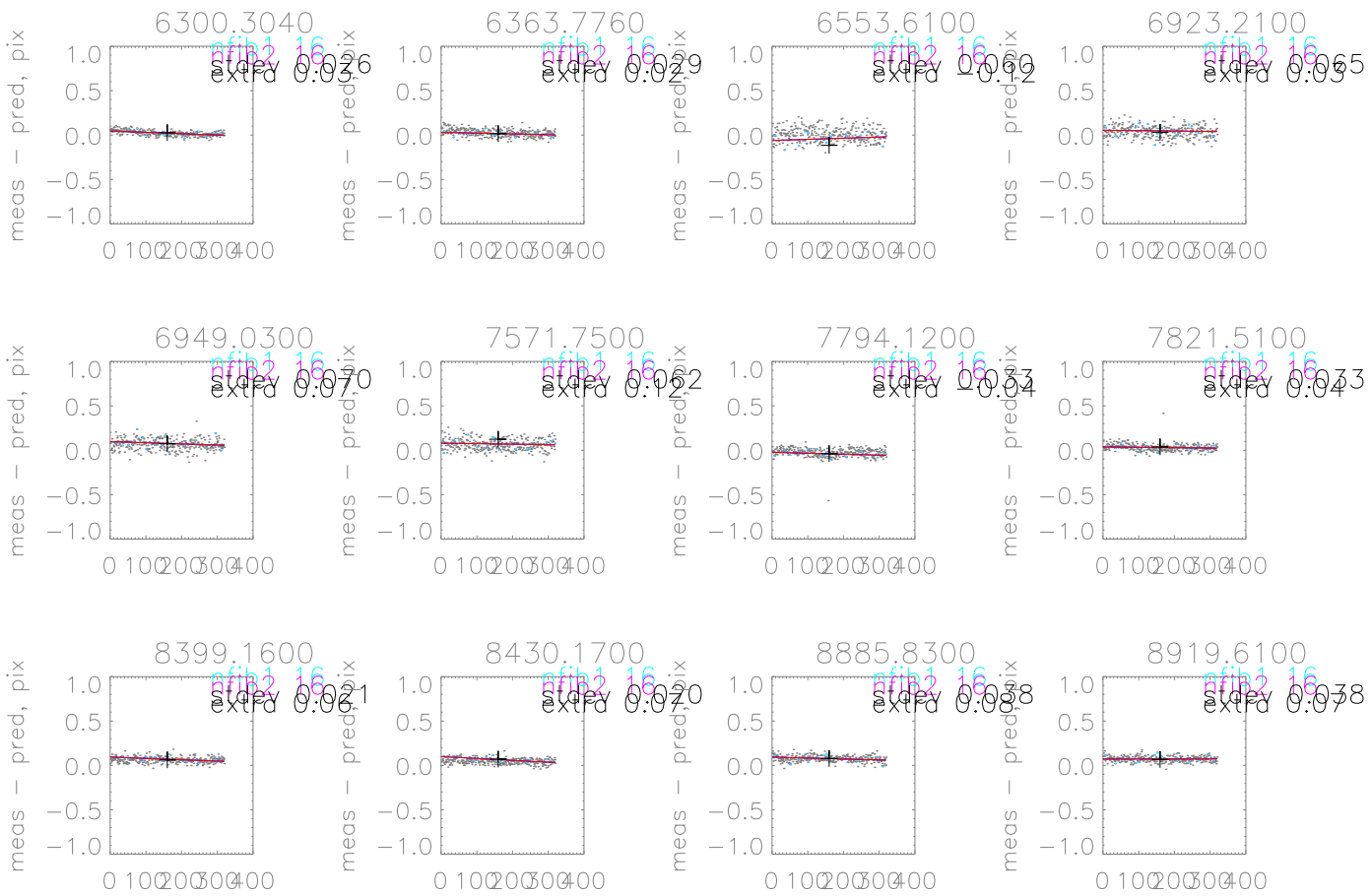

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

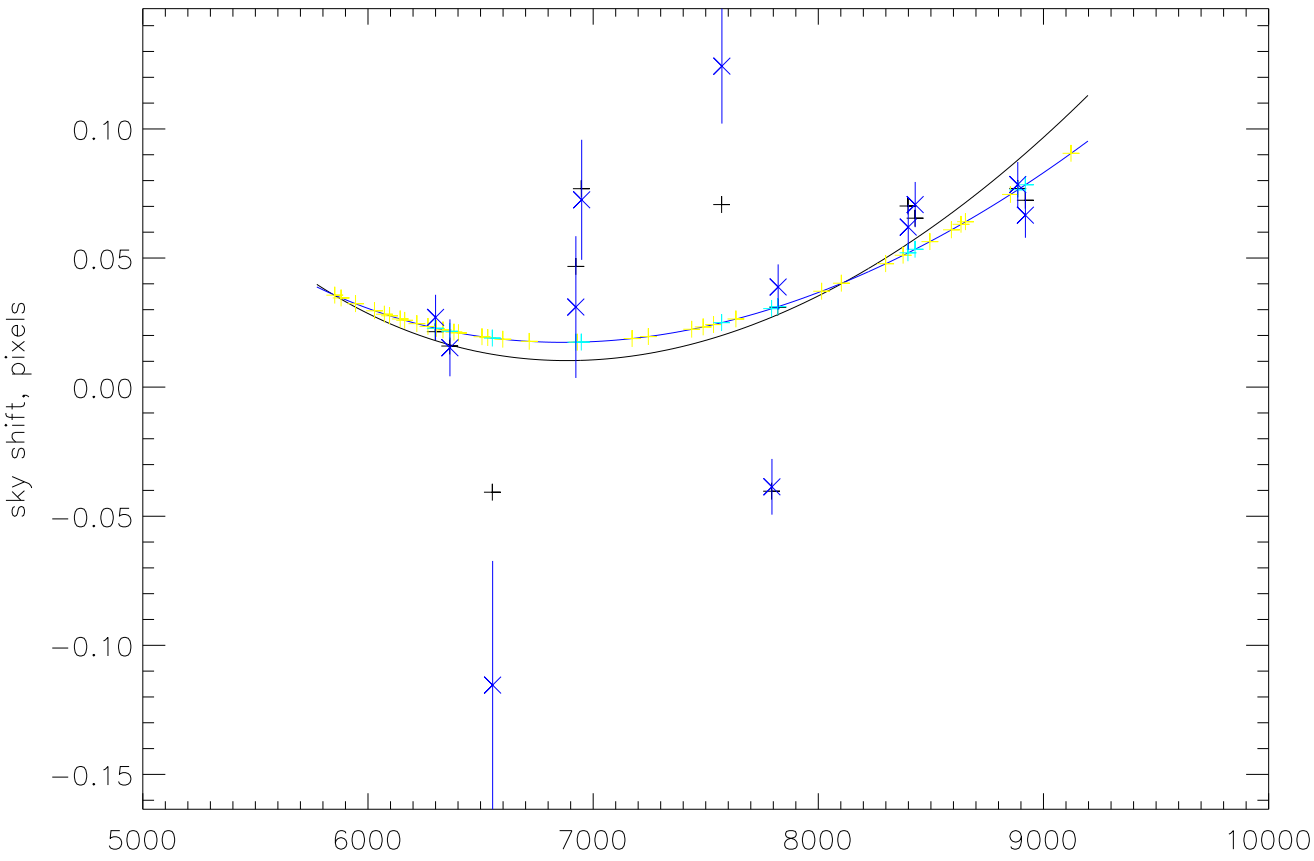

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

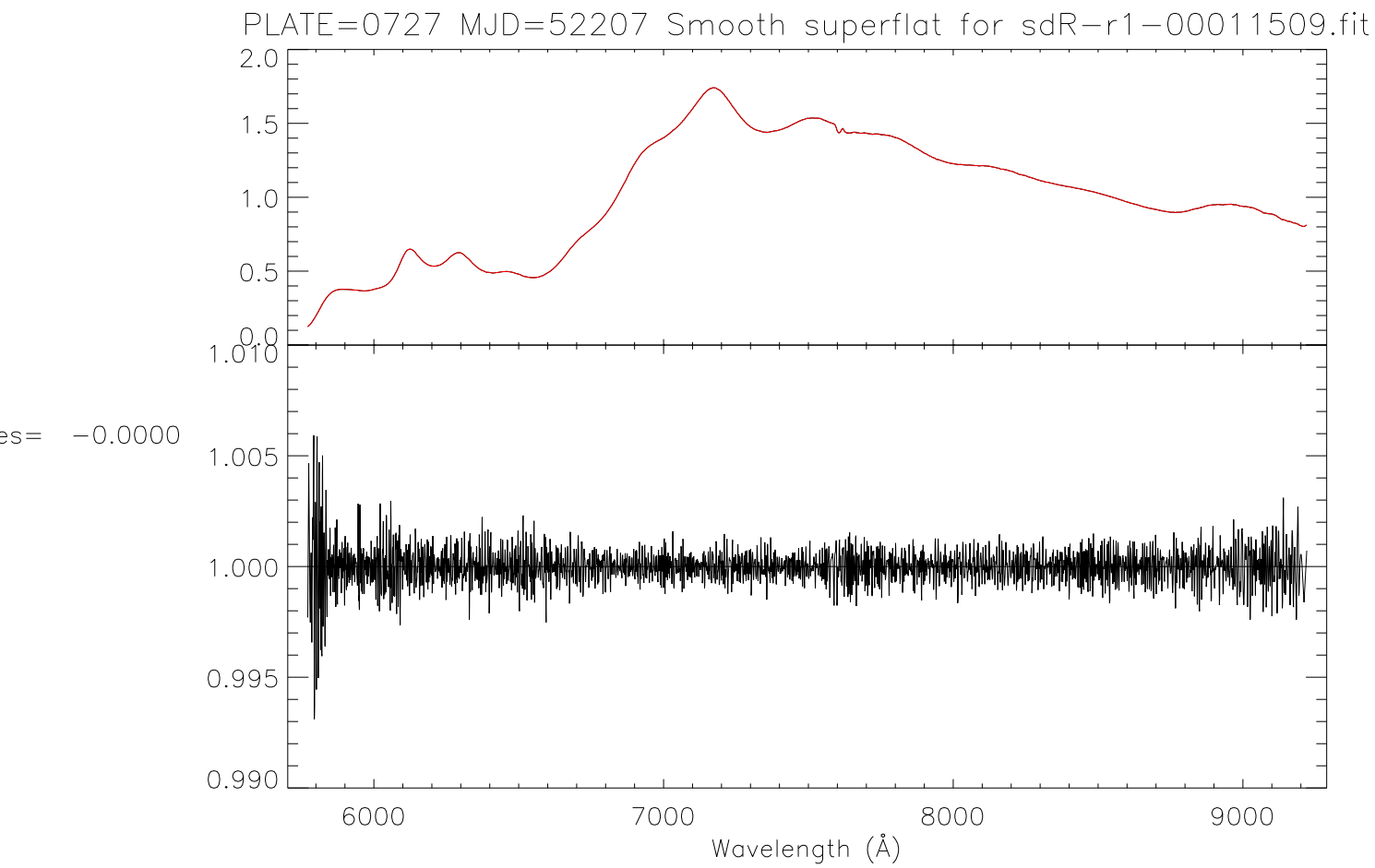

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

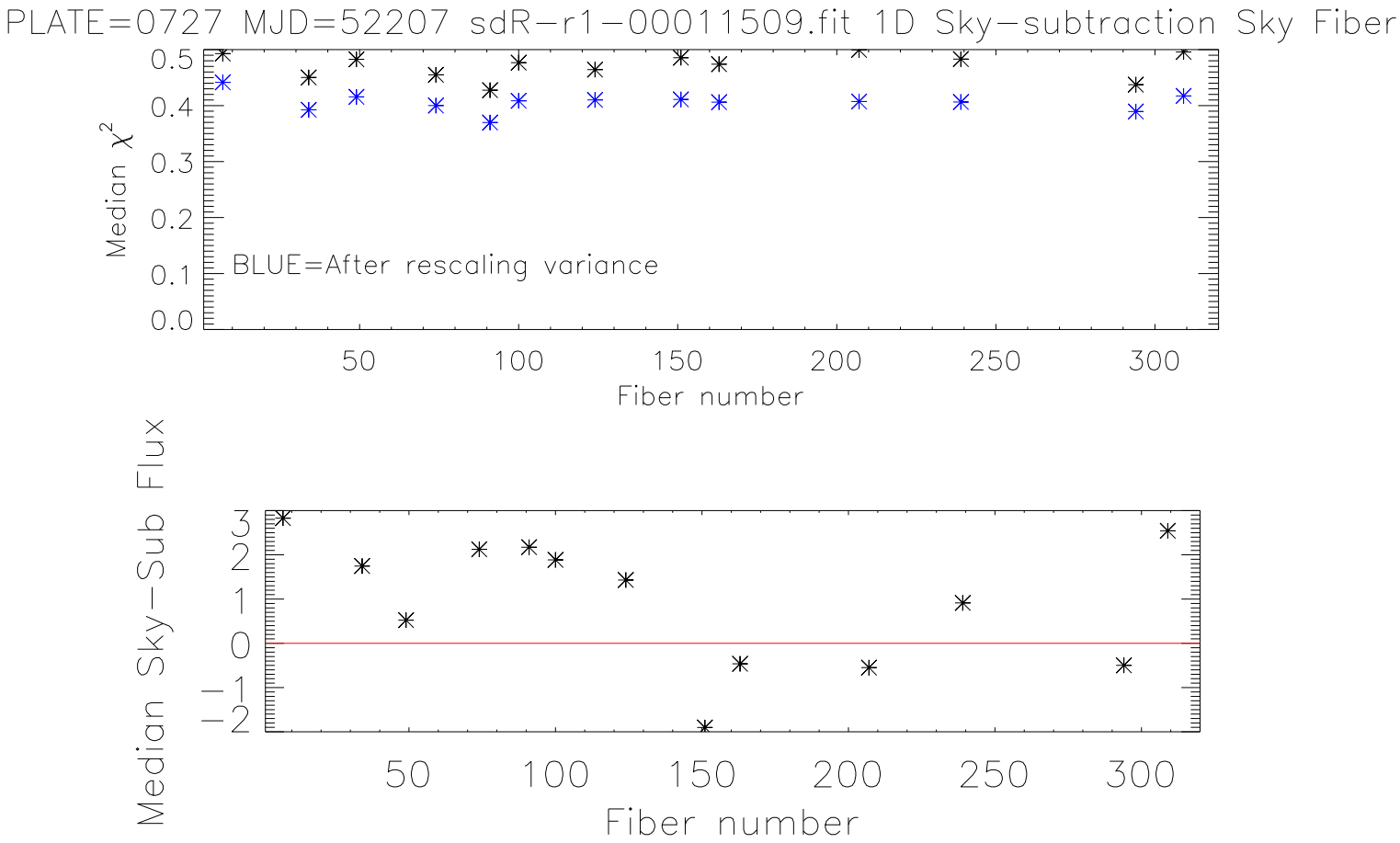

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

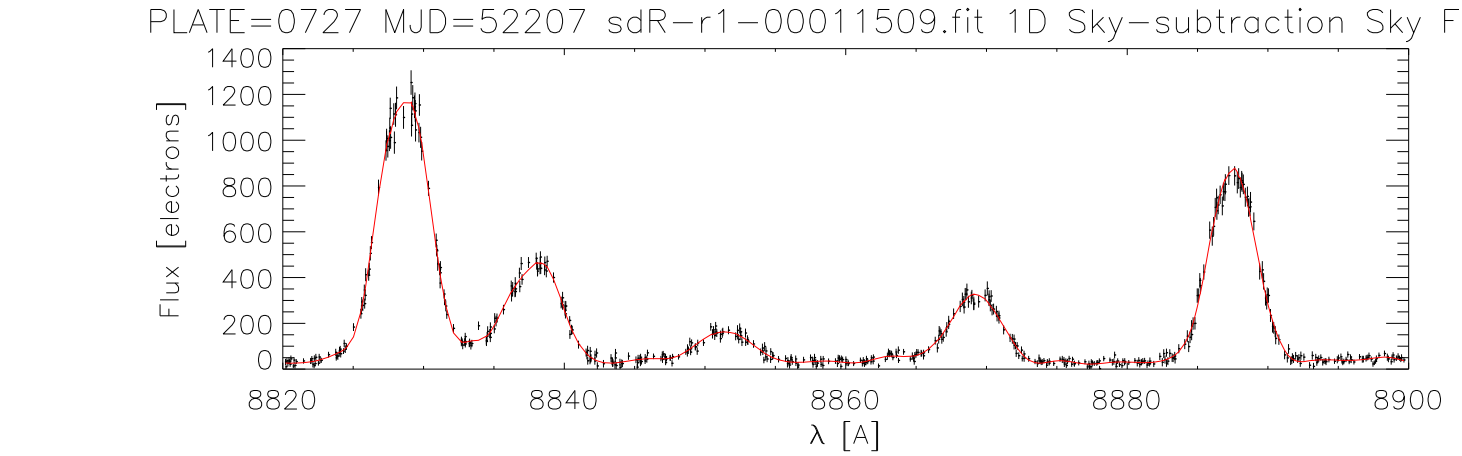

6300.3040
stdev 0.026
extra 0.03
6363.7760
stdev 0.029
extra 0.02
6553.6100
stdev 0.060
extra −0.02
6923.2100
stdev 0.065
extra 0.03
6949.0300
stdev 0.070
extra 0.07
7571.7500
stdev 0.062
extra 0.12
7794.1200
stdev 0.033
extra −0.04
7821.5100
stdev 0.033
extra 0.04
8399.1600
stdev 0.021
extra 0.06
8430.1700
stdev 0.020
extra 0.07
8885.8300
stdev 0.038
extra 0.08
8919.6100
stdev 0.038
extra 0.07
meas − pred, pix
mfb32 16

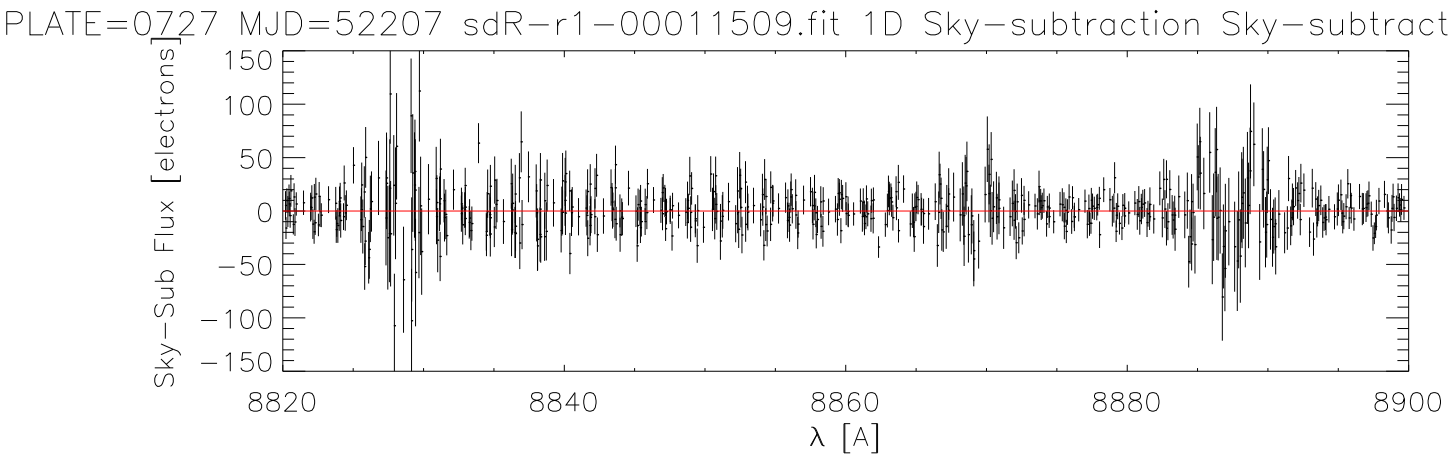

sky shift, pixels
0.10
0.05
0.00
−0.05
−0.10
−0.15
5000
6000
7000
8000
9000
10000

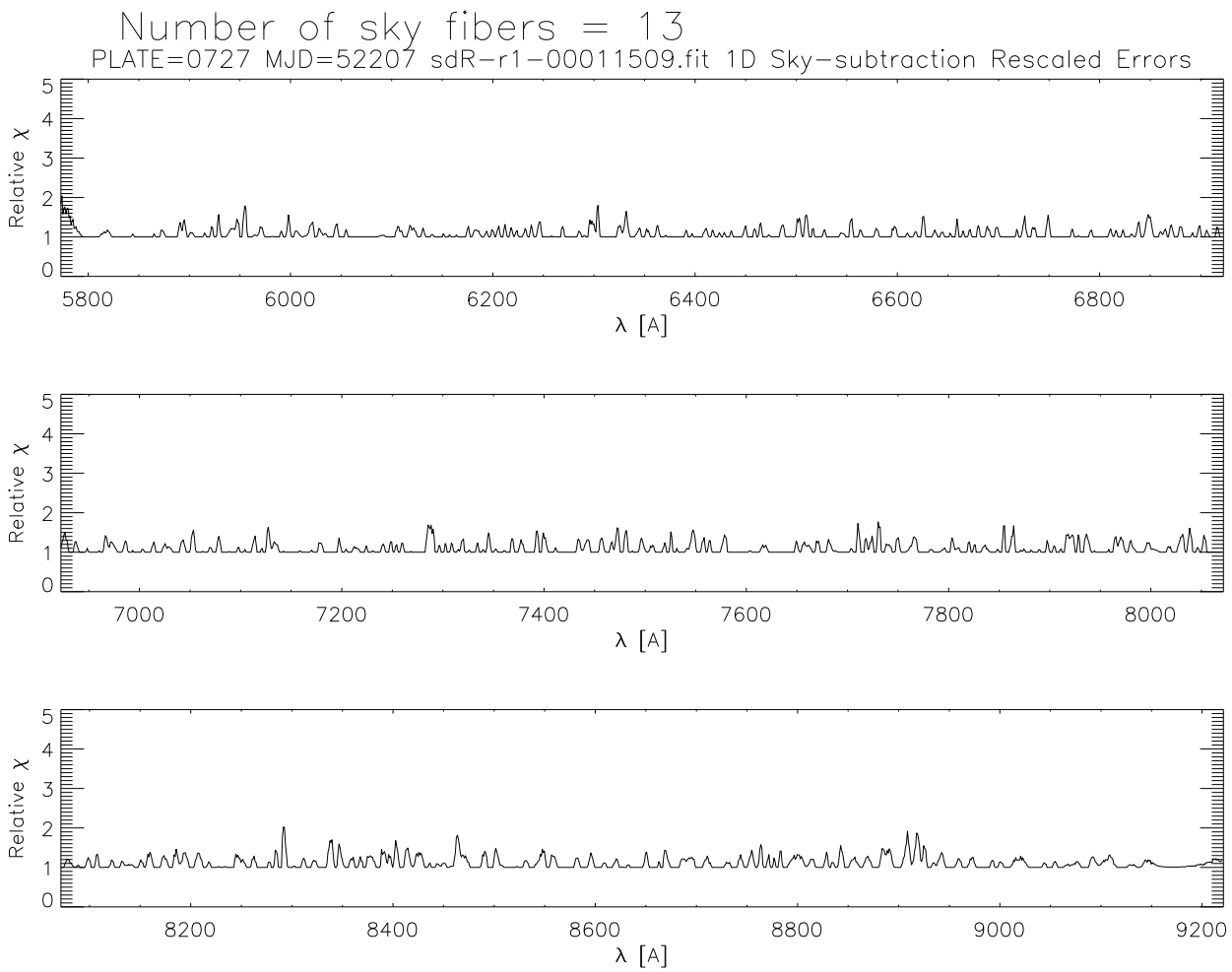

PLATE=0727 MJD=52207 Smooth superflat for sdR-r1-00011509.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

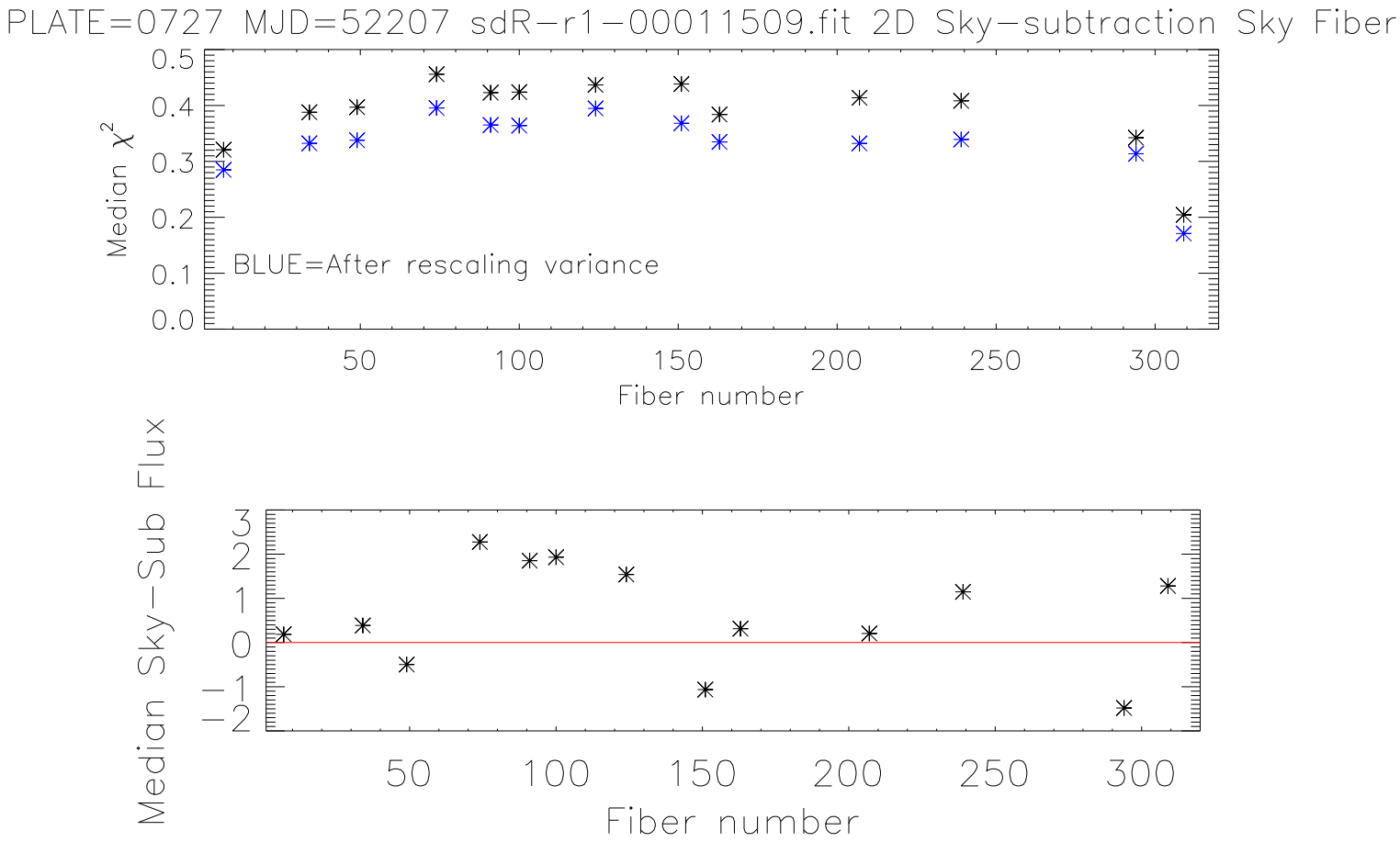
es= −0.0000

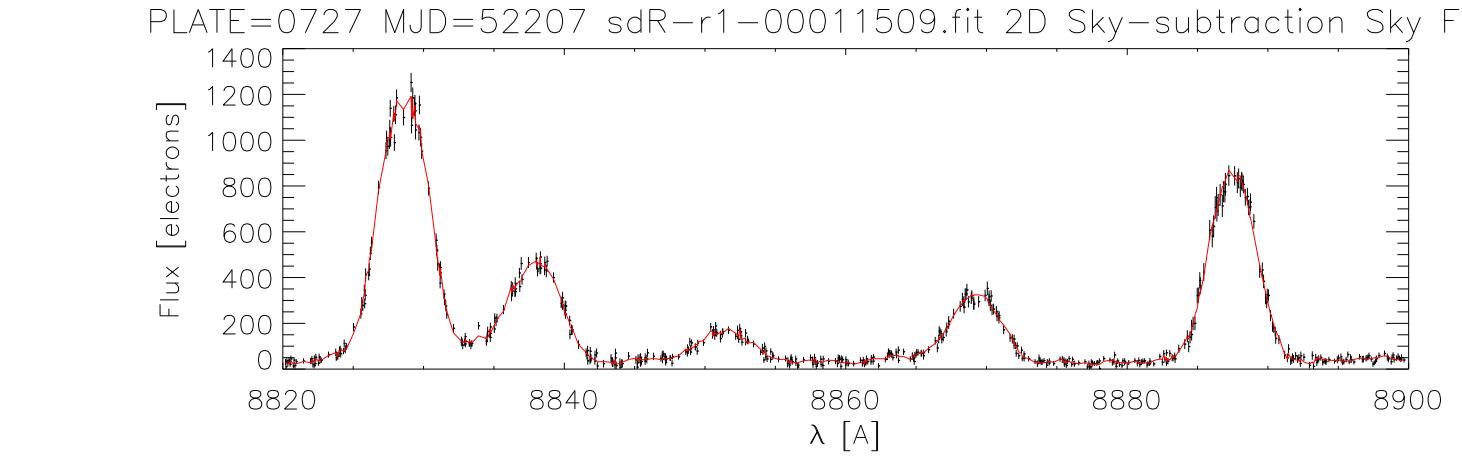

PLATE=0727 MJD=52207 sdR-r1-00011509.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

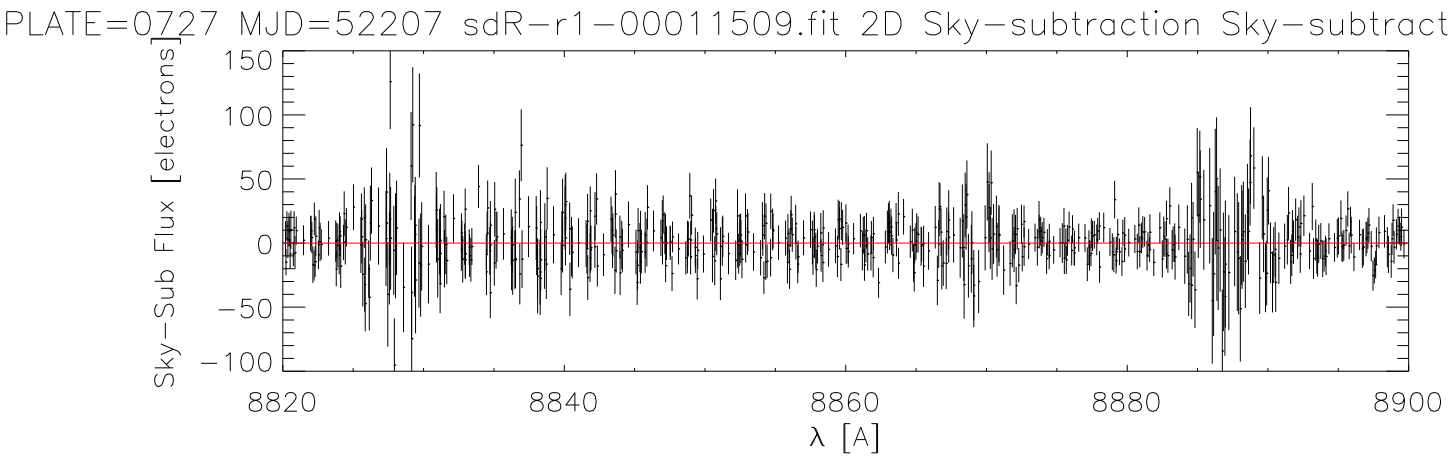

PLATE=0727 MJD=52207 sdR-r1-00011509.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1400
1200
1000
800
600
400
200
0
8820
8840
8860
8880
8900
λ [A]

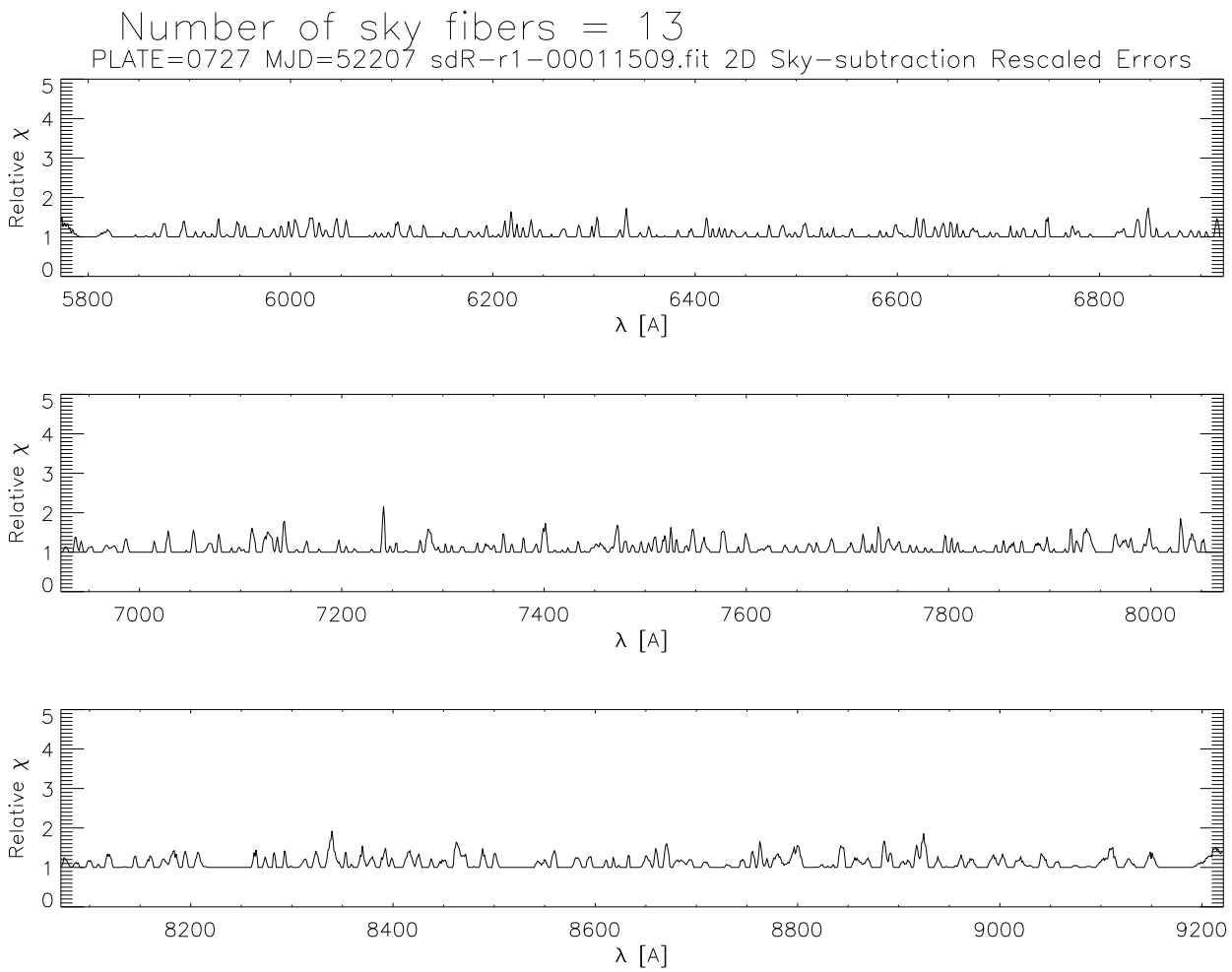

PLATE=0727 MJD=52207 sdR-r1-00011509.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

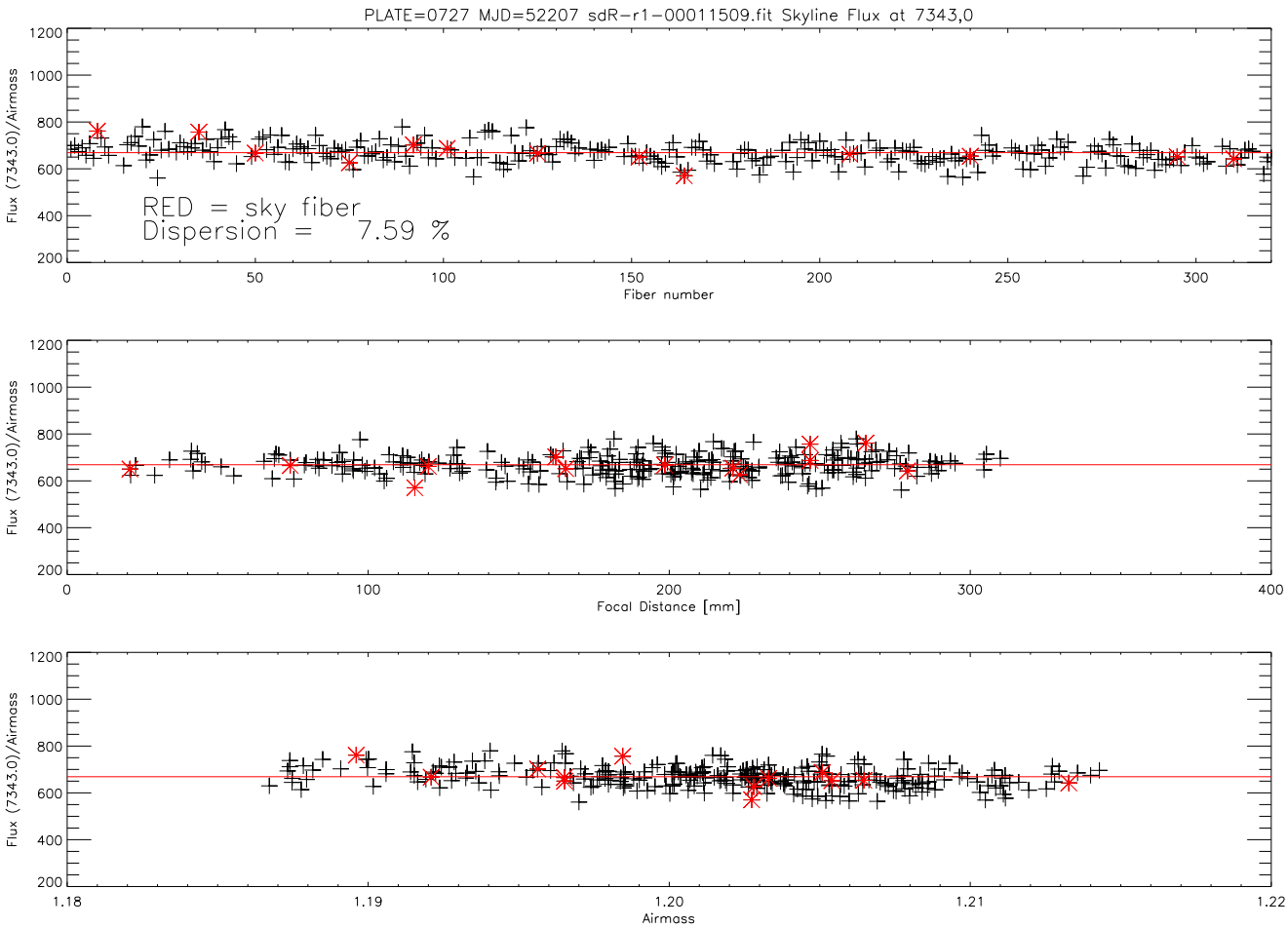

Number of sky fibers = 13
PLATE=0727 MJD=52207 sdR-r1-00011509.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

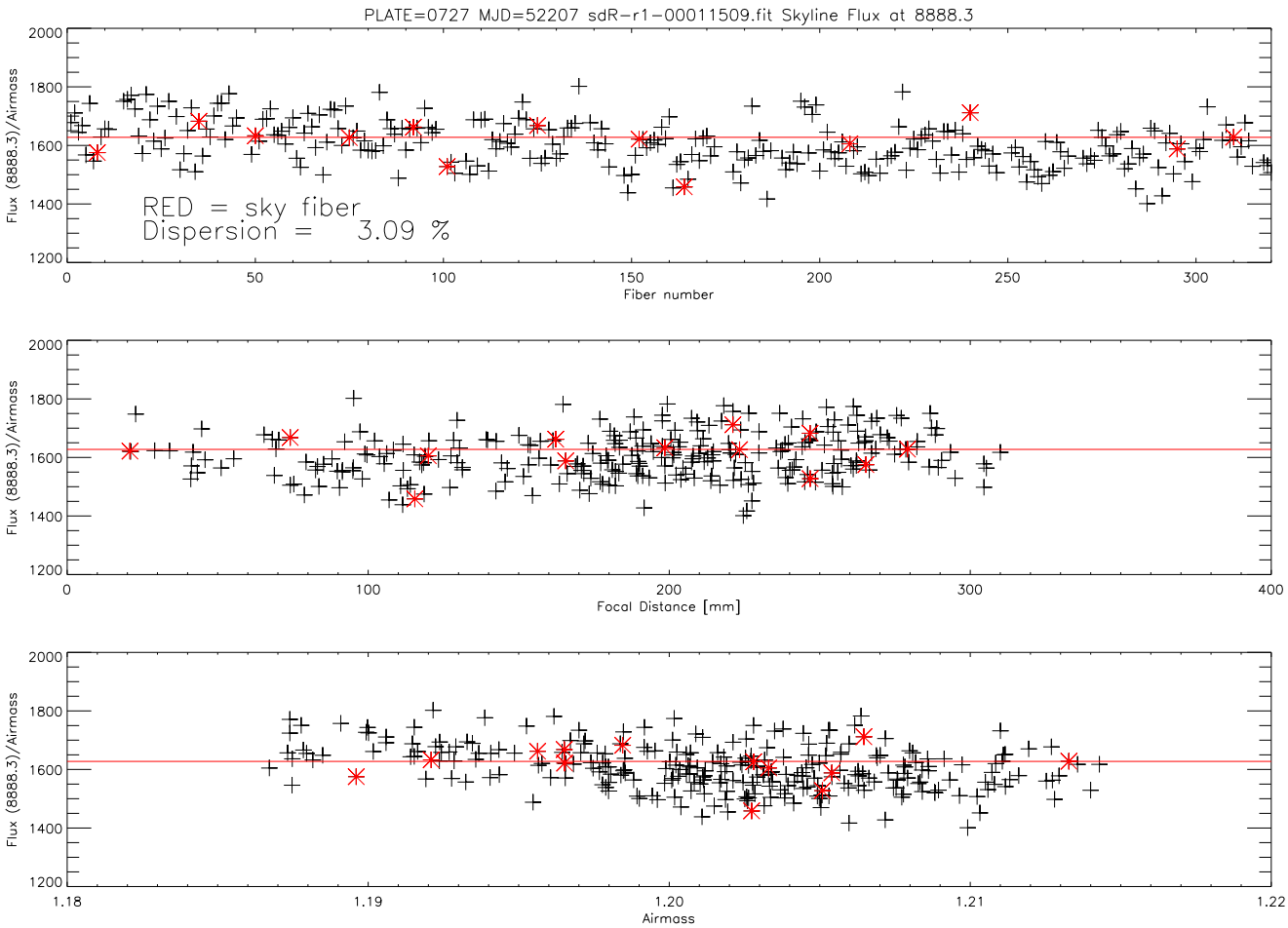

PLATE=0727 MJD=52207 sdR-r1-00011509.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

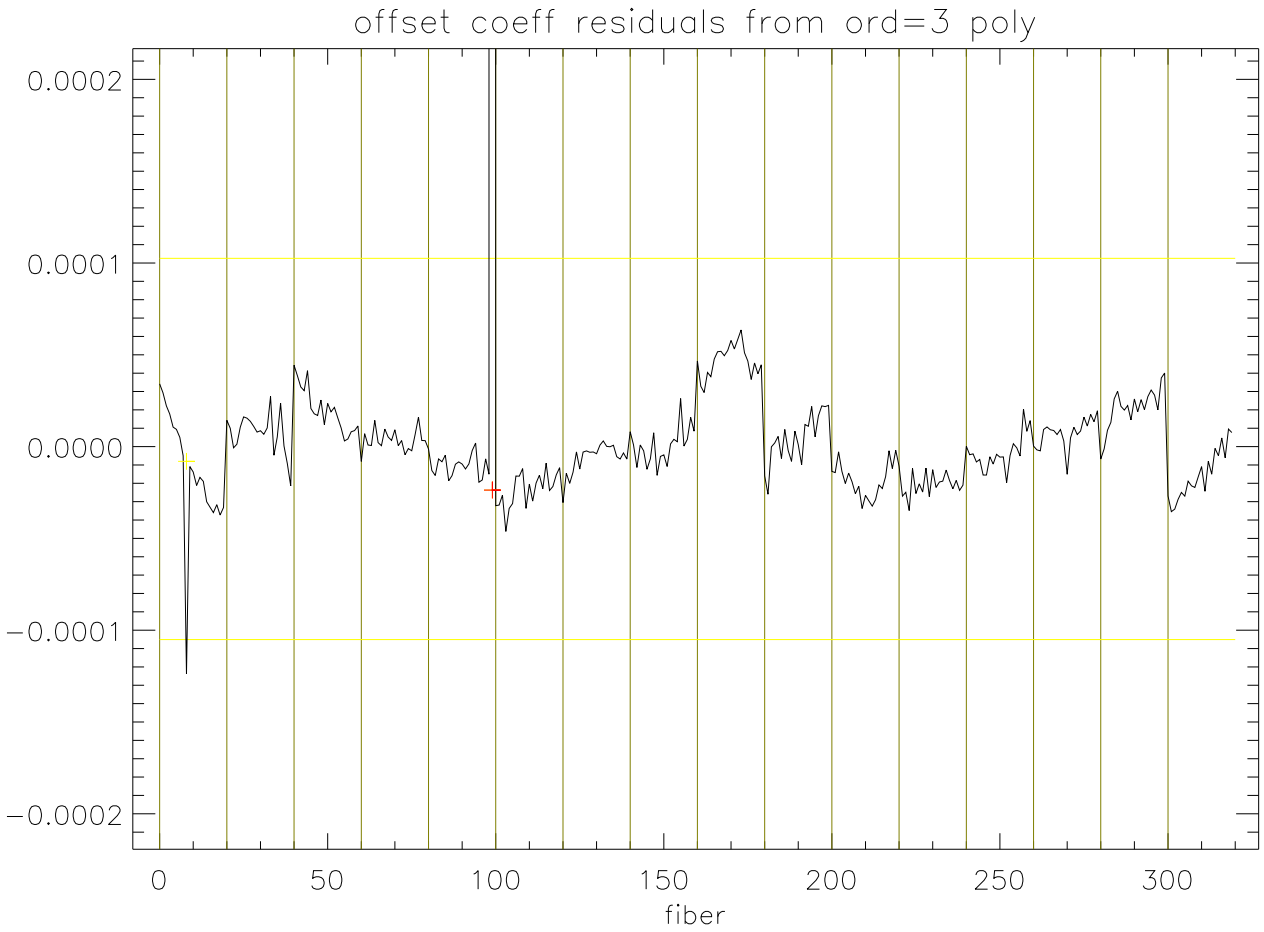

PLATE=0727 MJD=52207 sdR-r1-00011509.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1400
1200
1000
800
600
400
200
0
8820
8840
8860
8880
8900
λ [A]

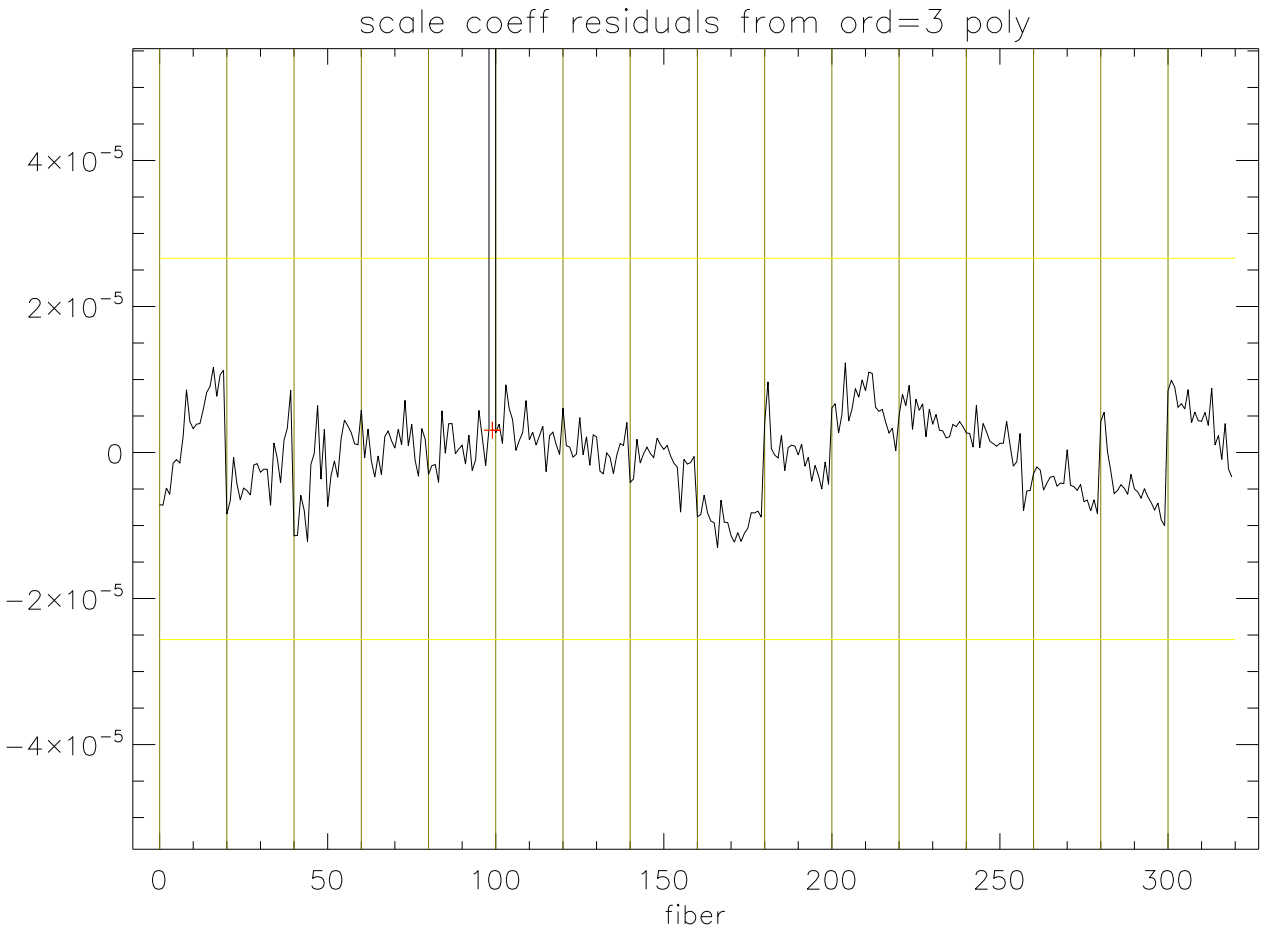

PLATE=0727 MJD=52207 sdR-r1-00011509.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

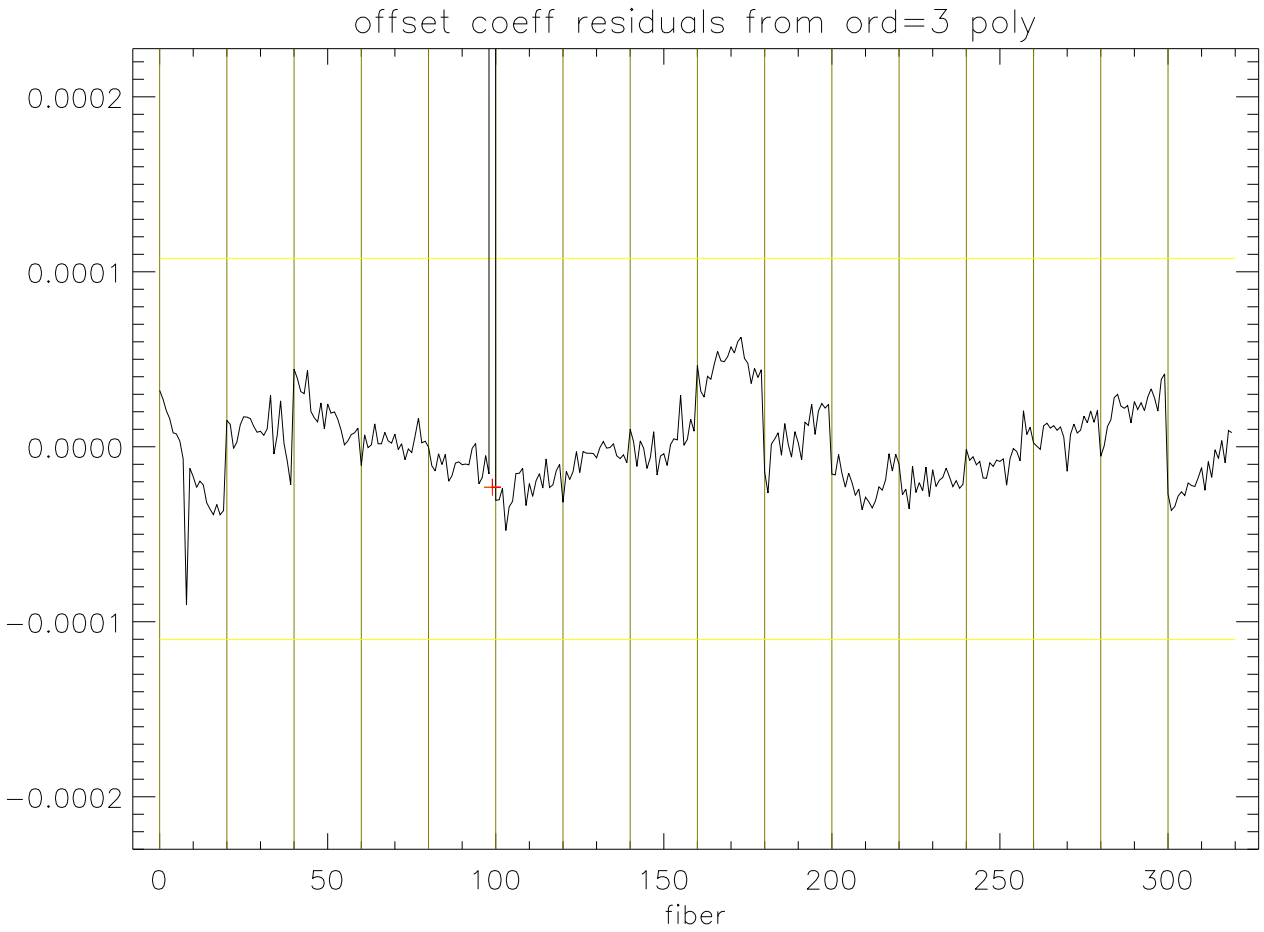

Number of sky fibers = 13
PLATE=0727 MJD=52207 sdR-r1-00011509.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

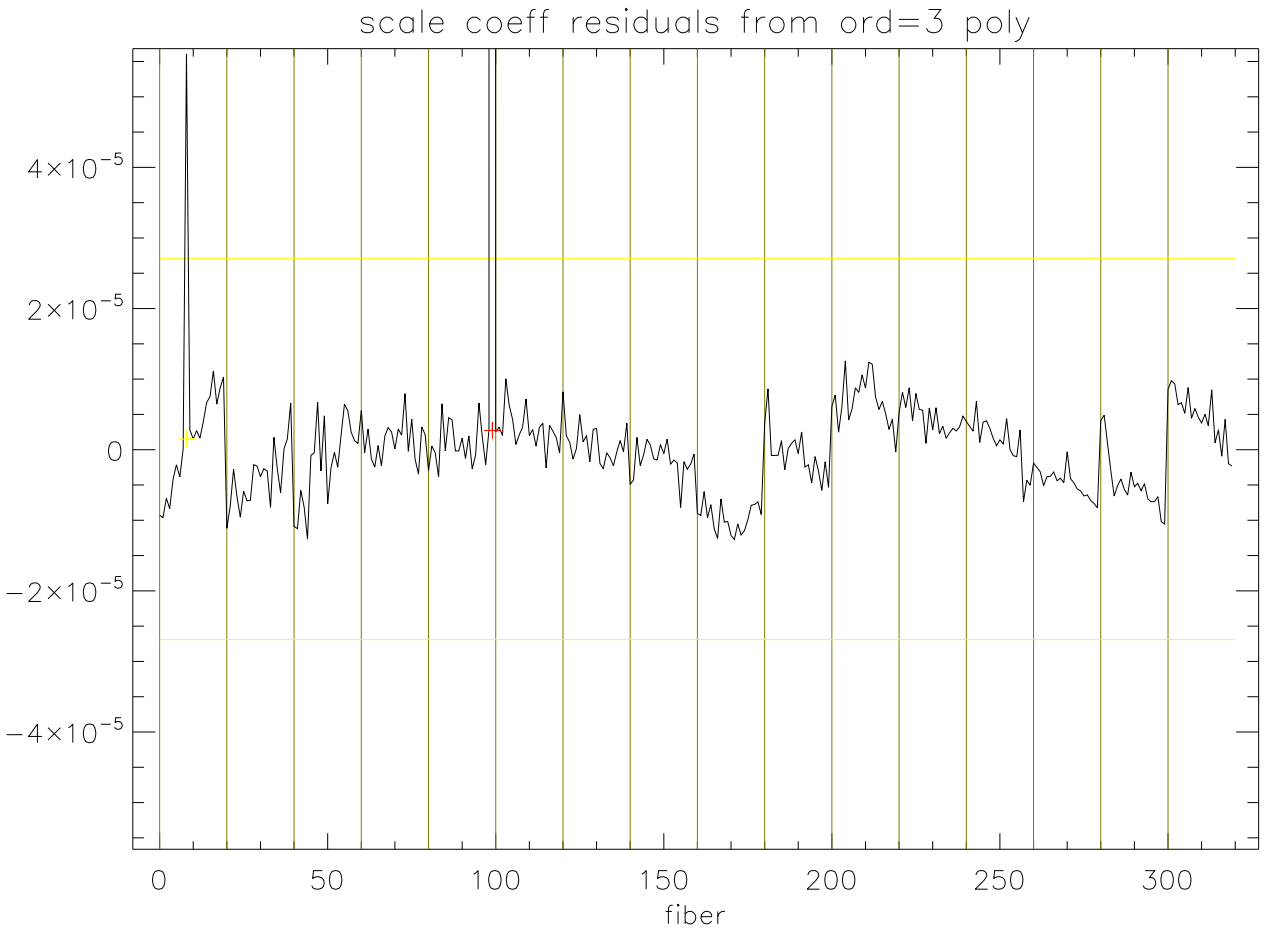

PLATE=0727 MJD=52207 sdR-r1-00011509.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 7.59 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

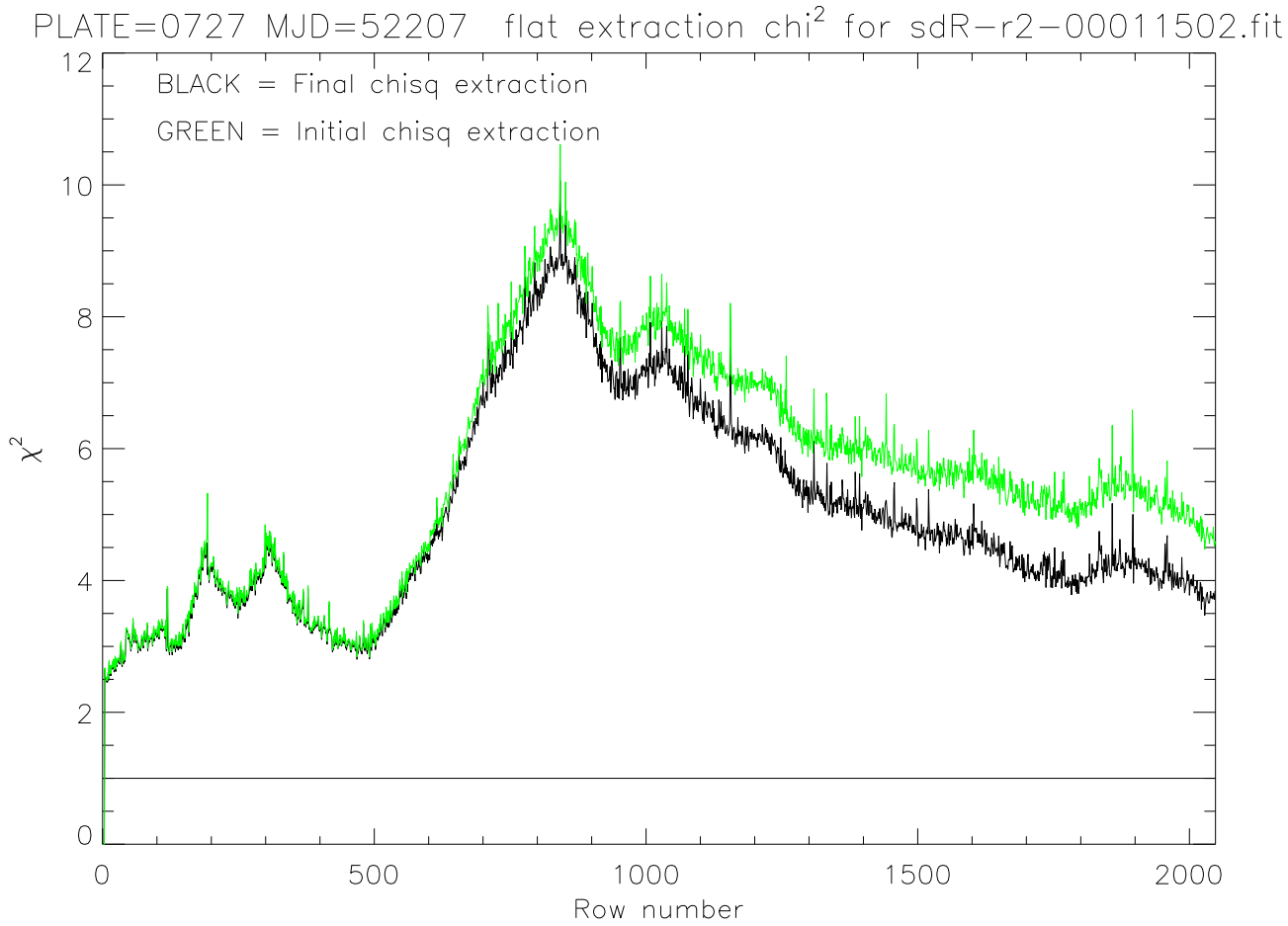

PLATE=0727 MJD=52207 sdR-r1-00011509.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.09 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

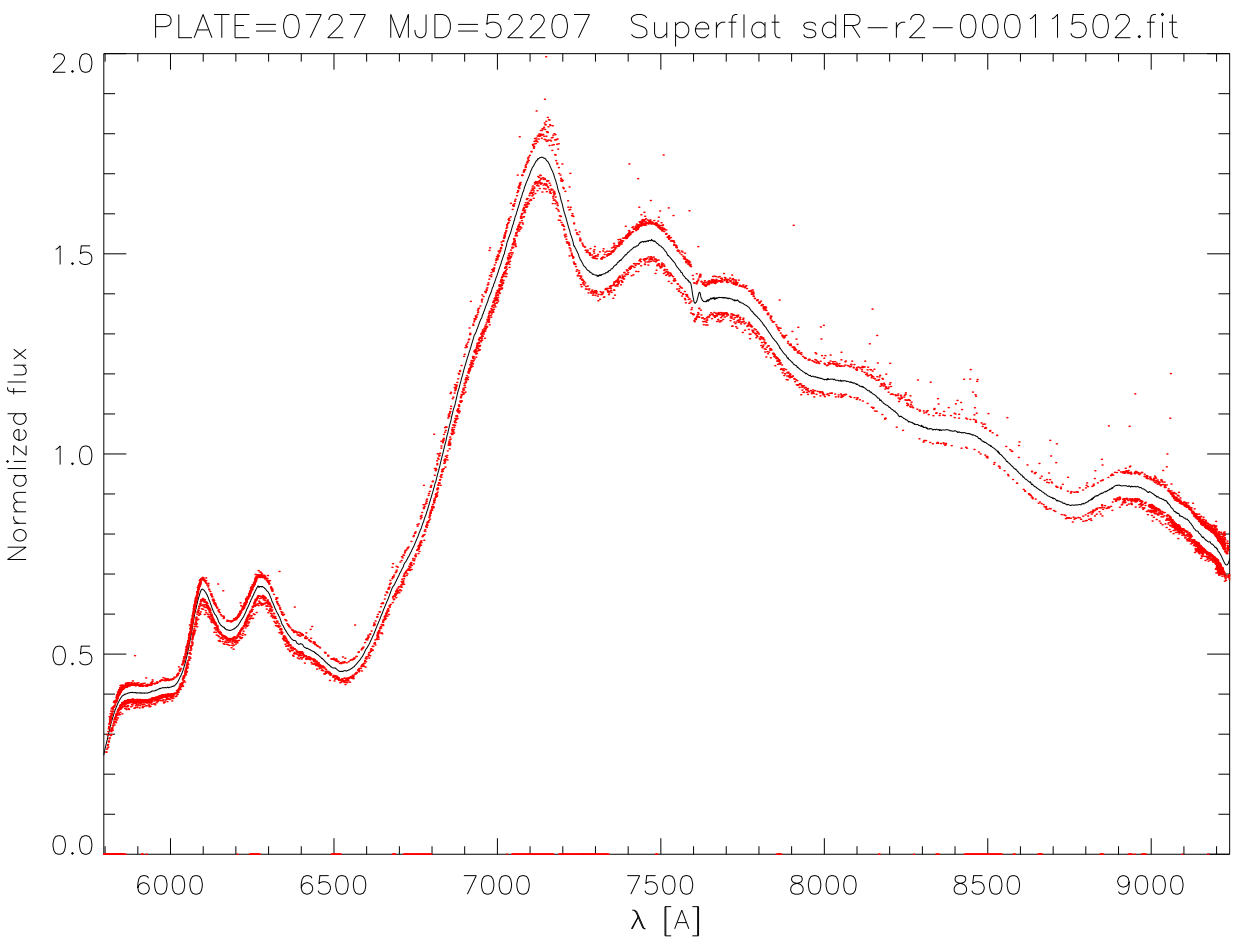

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

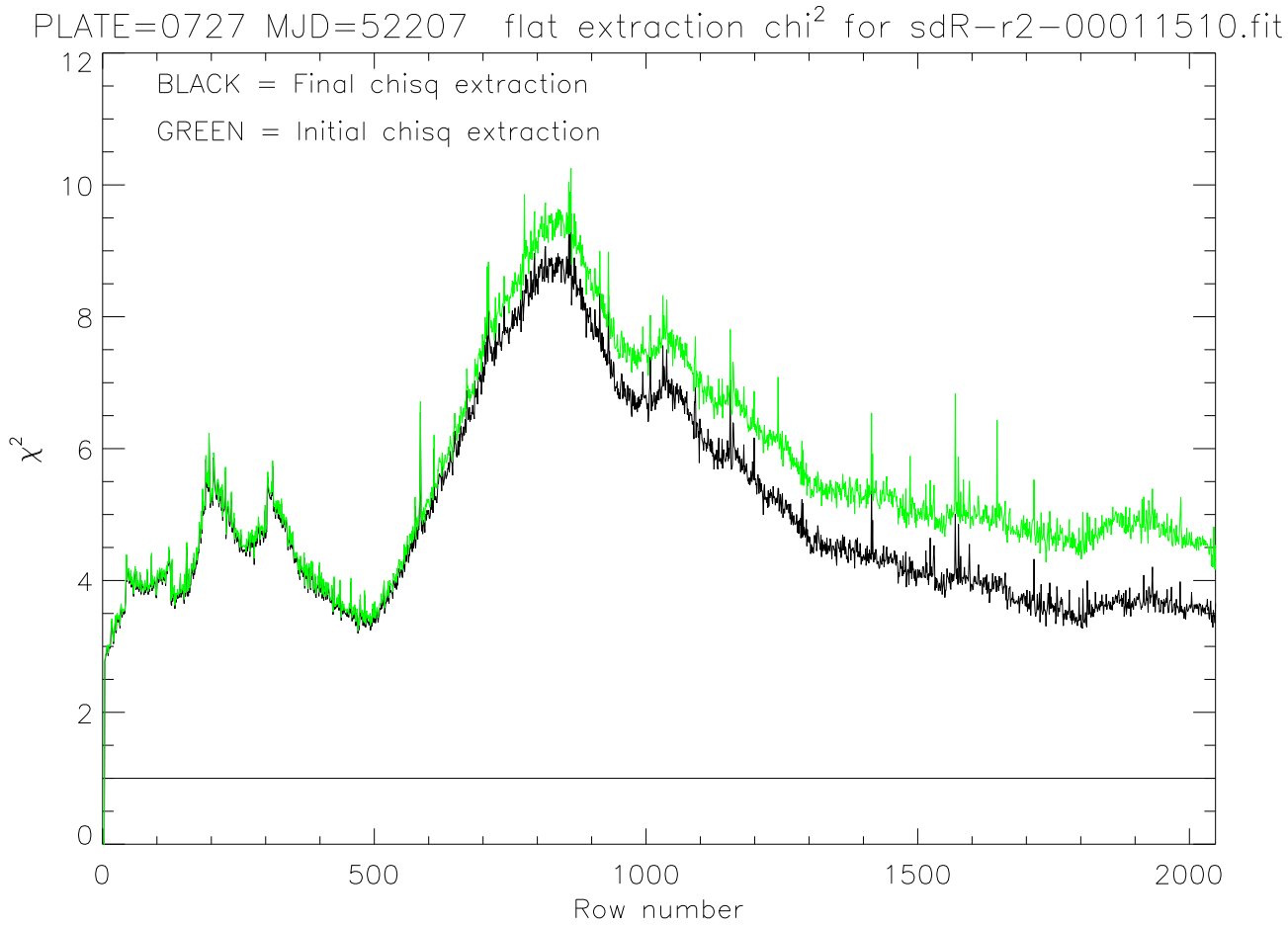

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

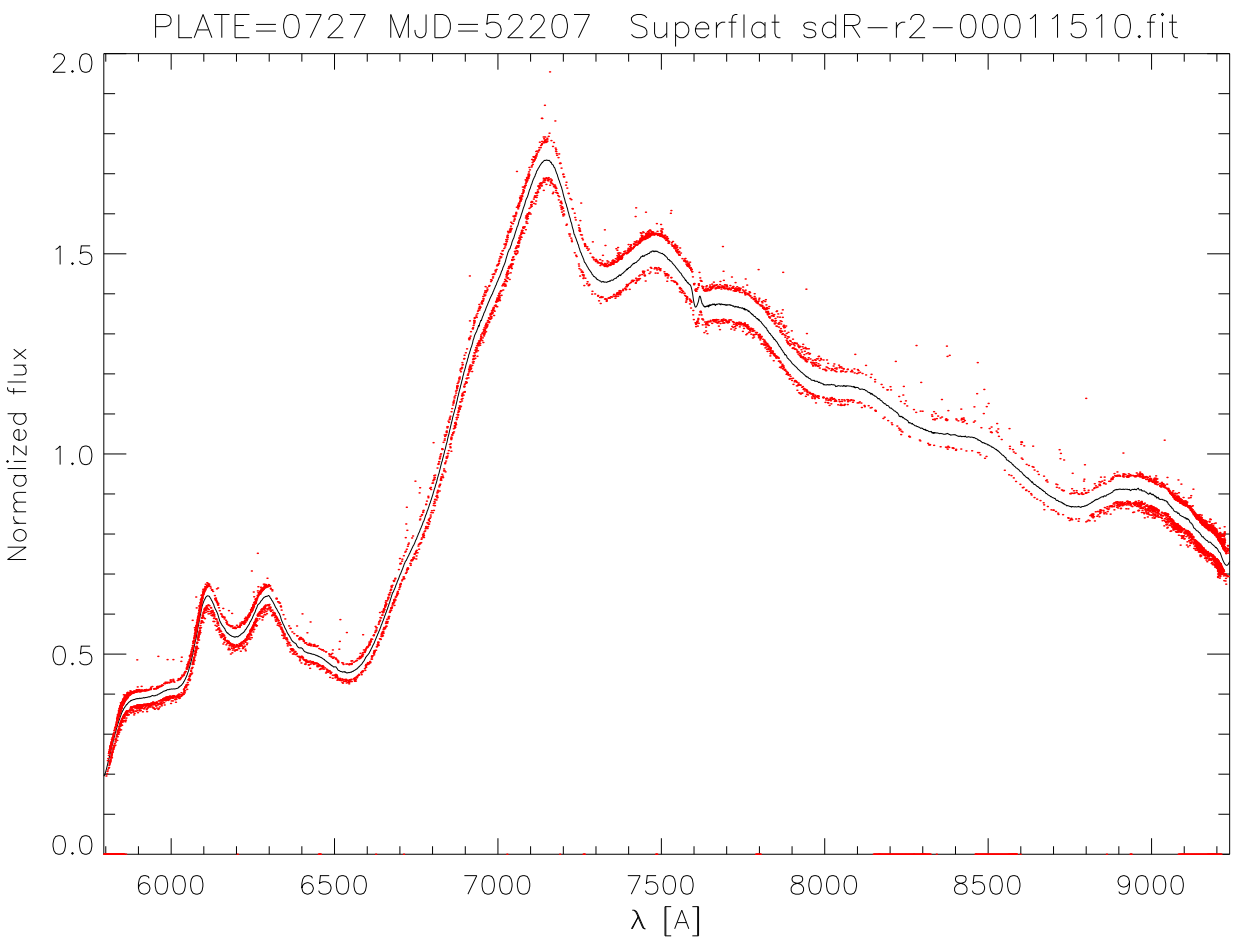

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

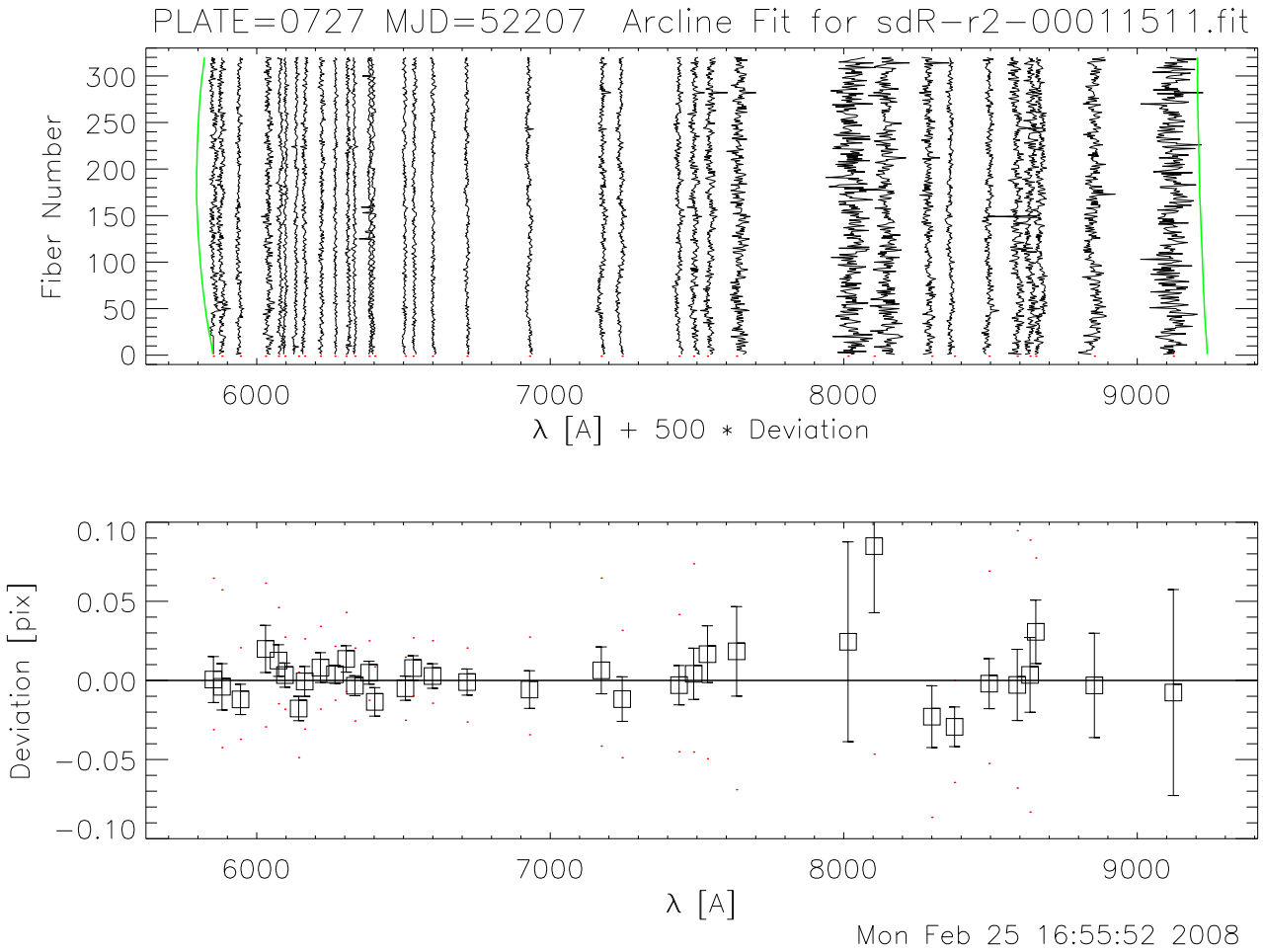

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber


PLATE=0727 MJD=52207 flat extraction chi^2 for sdR−r2−00011502.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

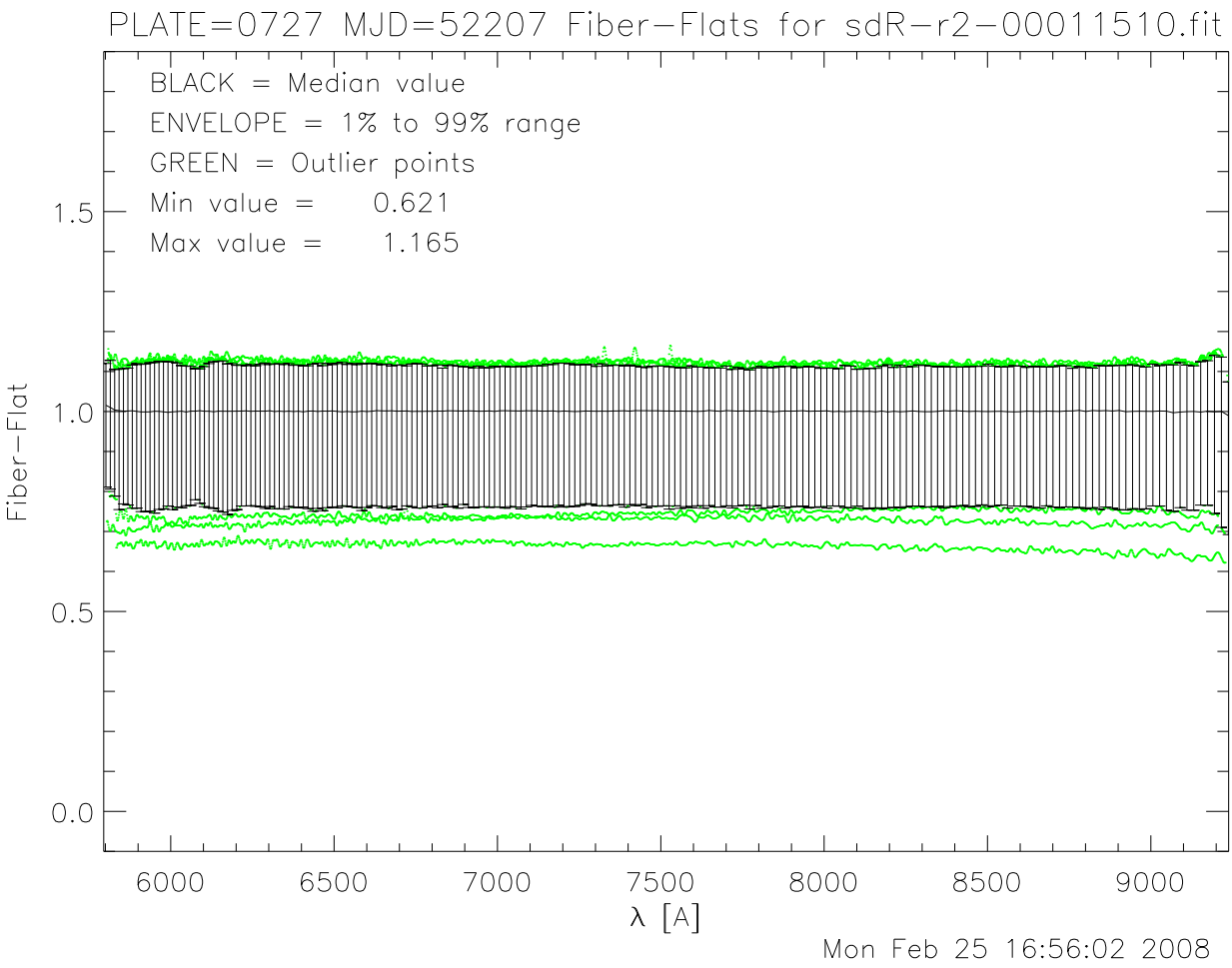

PLATE=0727 MJD=52207 Superflat sdR-r2-00011502.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

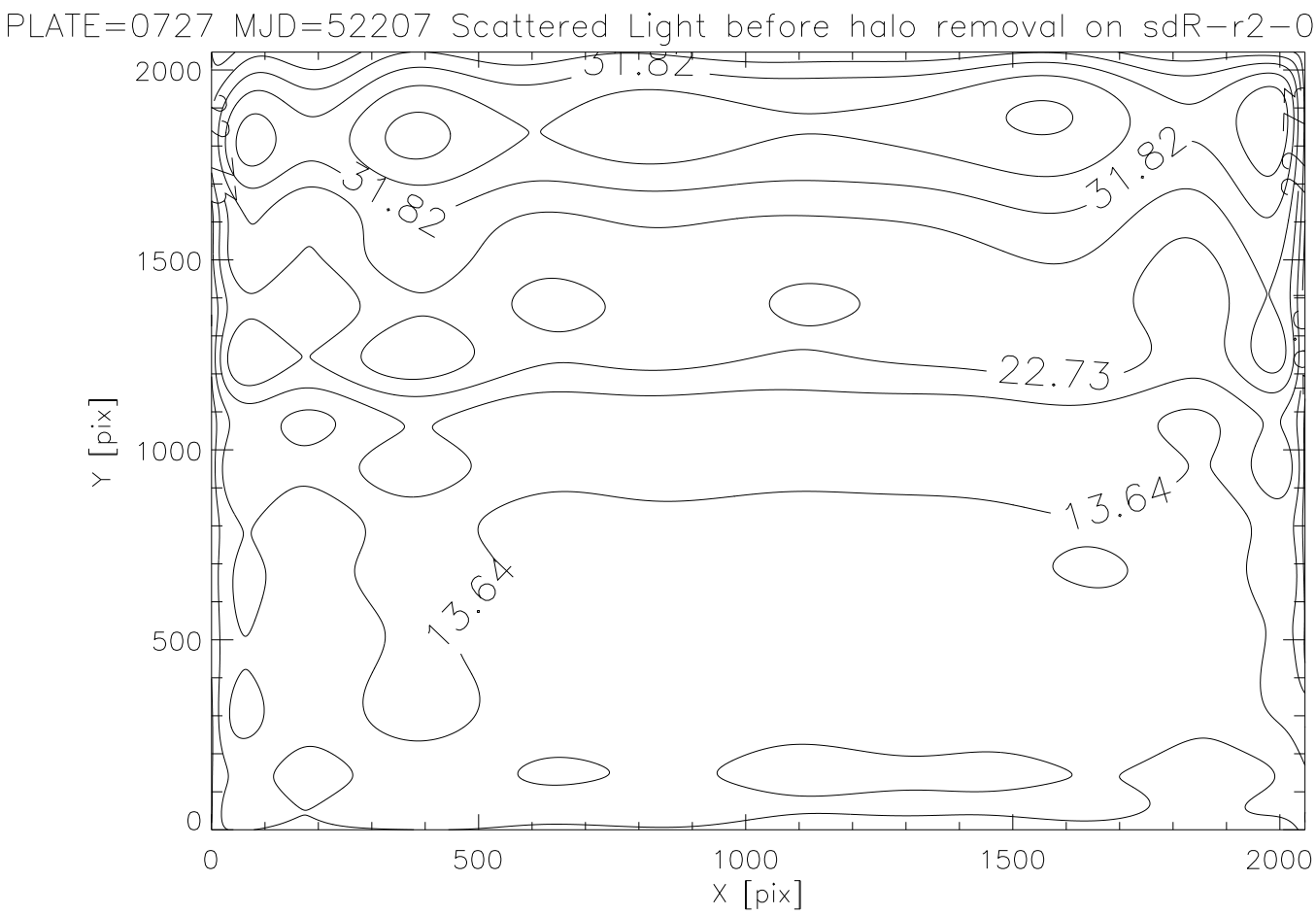

PLATE=0727 MJD=52207 flat extraction chi^2 for sdR−r2−00011510.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

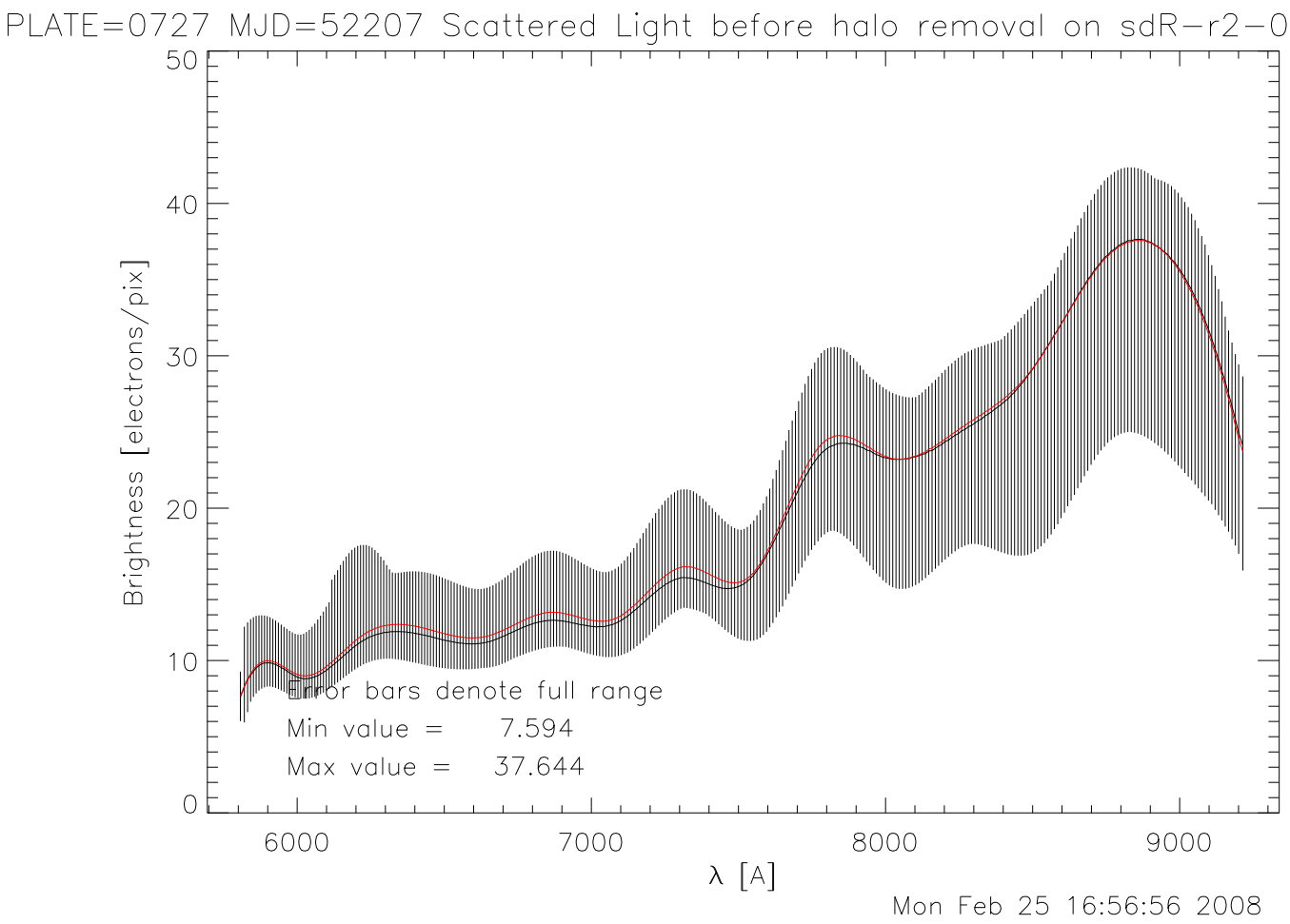

PLATE=0727 MJD=52207 Superflat sdR-r2-00011510.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

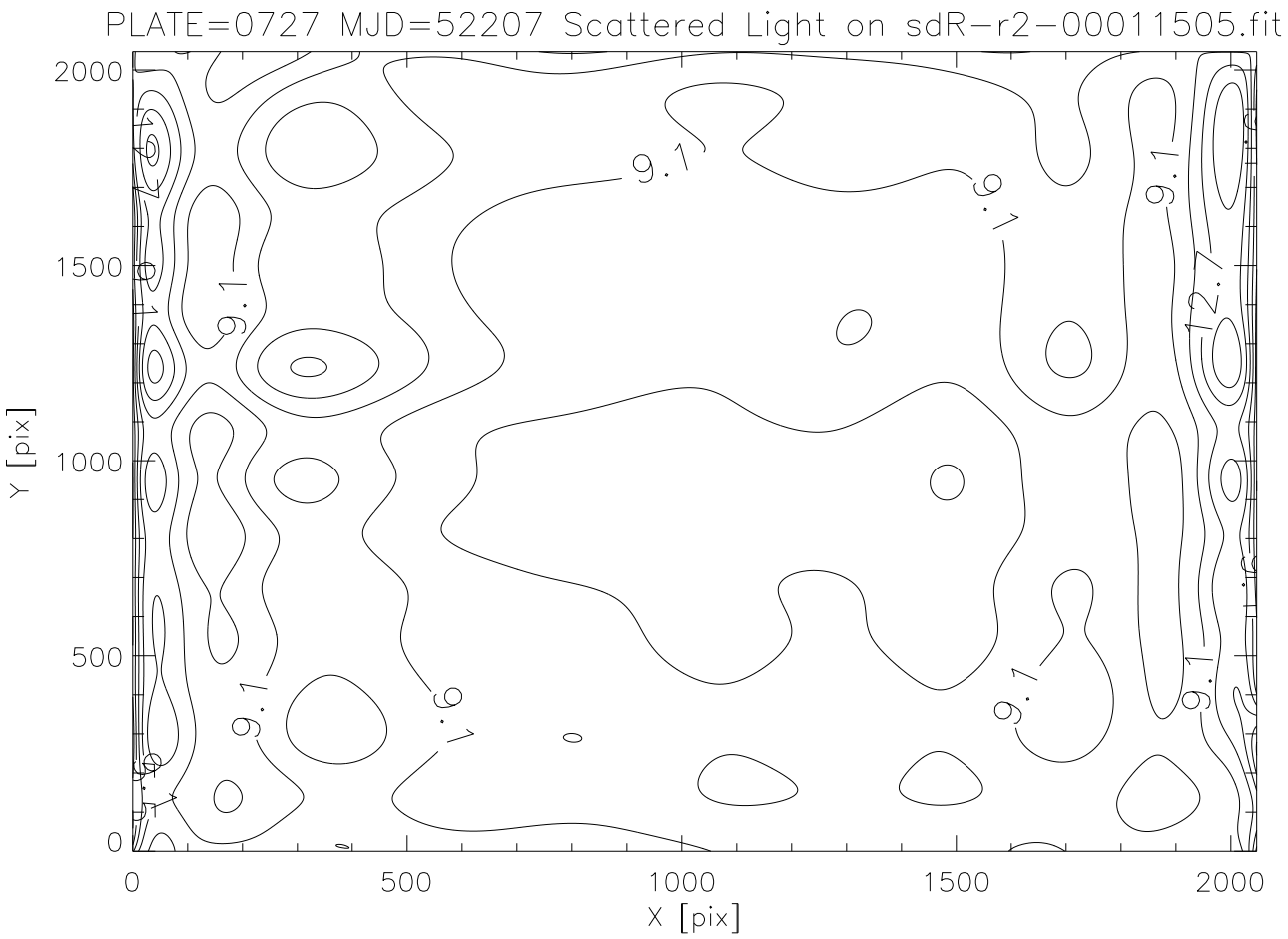

PLATE=0727 MJD=52207 Arcline Fit for sdR-r2-00011511.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation

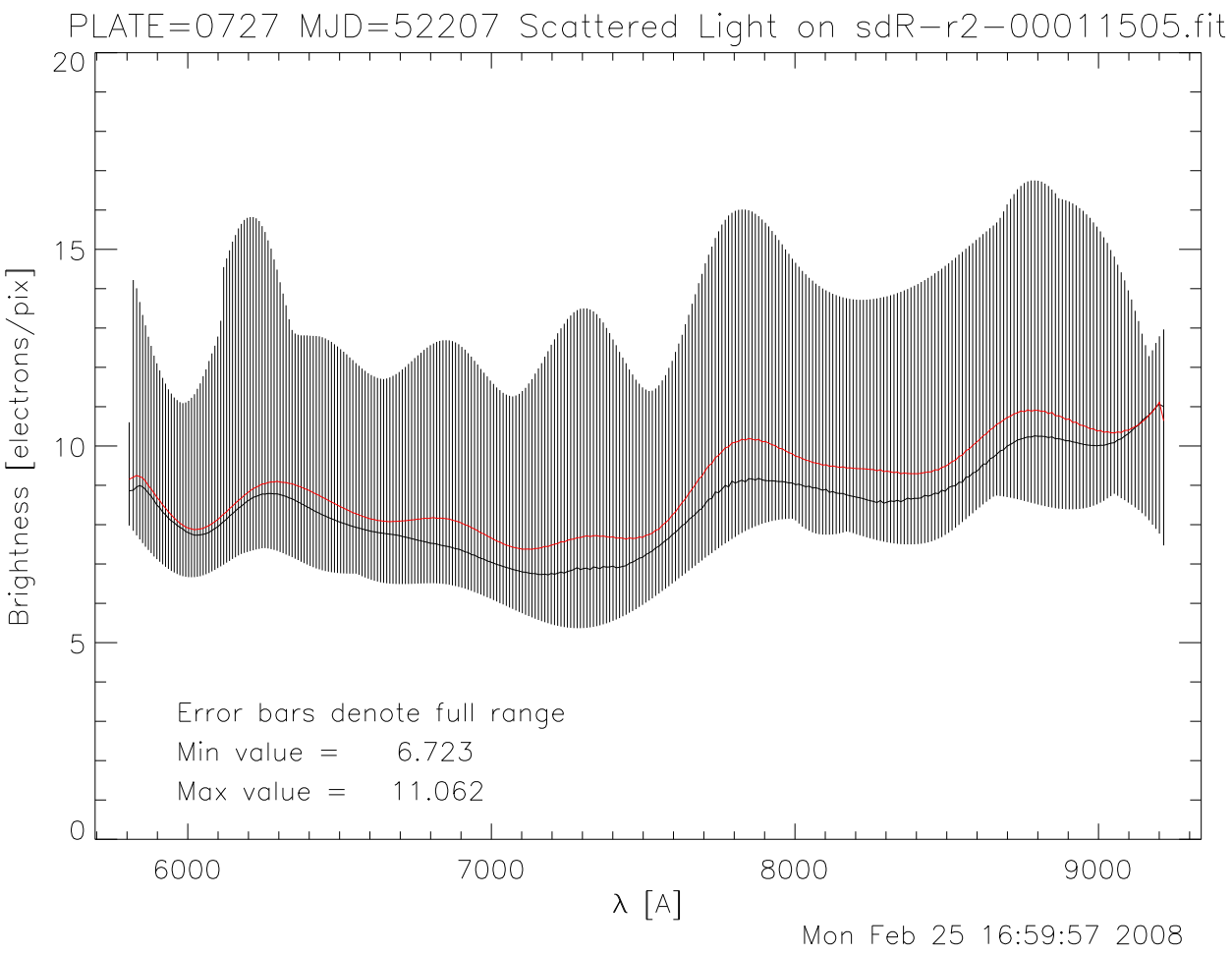
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 25 16:55:52 2008

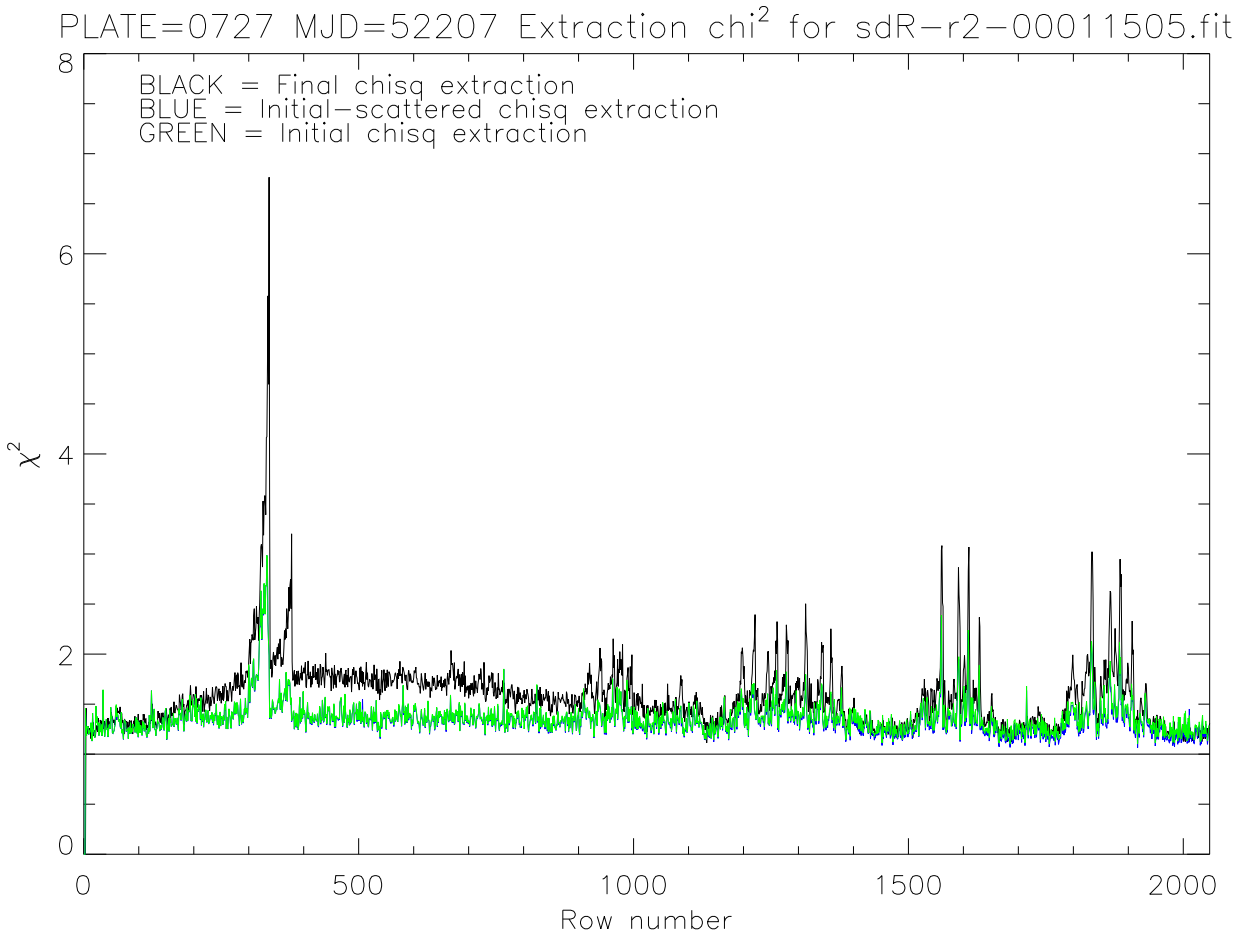

PLATE=0727 MJD=52207 Fiber−Flats for sdR−r2−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.621
Max value = 1.165
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 16:56:02 2008

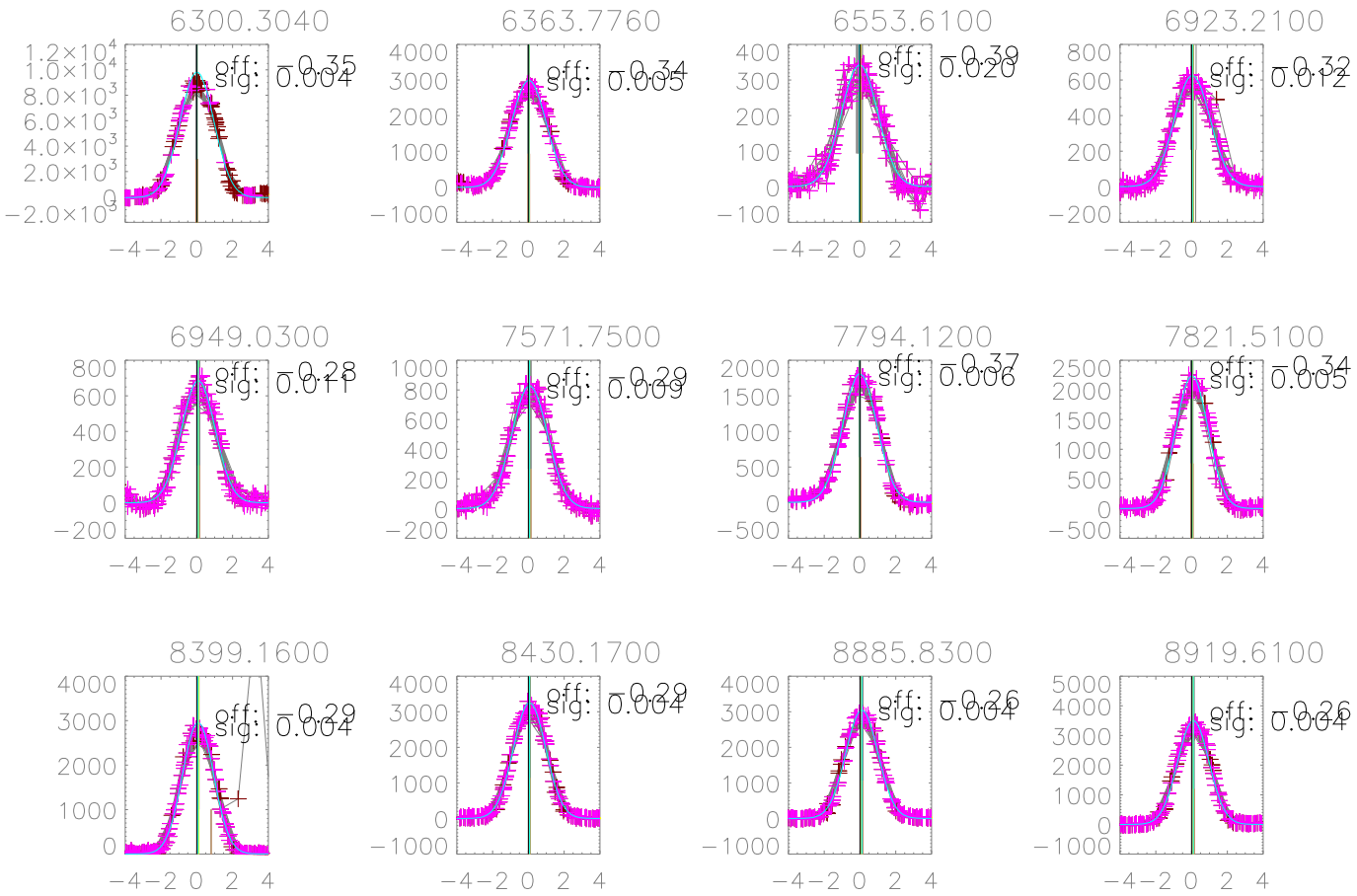

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r2-00011505.fi
31.82
31.82
31.82
22.73
13.64
13.64
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

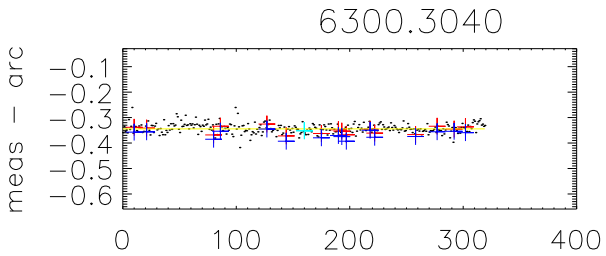

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r2-00011505.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.594
Max value = 37.644
Mon Feb 25 16:56:56 2008

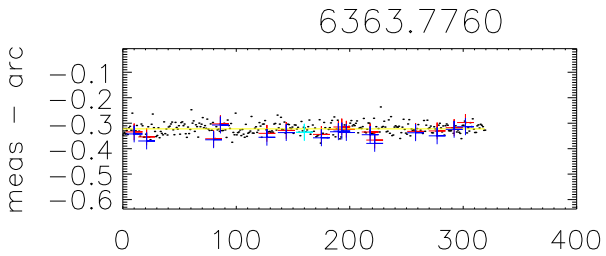

PLATE=0727 MJD=52207 Scattered Light on sdR-r2-00011505.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
12.7
0

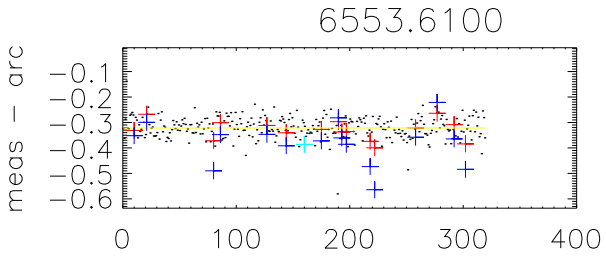

PLATE=0727 MJD=52207 Scattered Light on sdR-r2-00011505.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.723
Max value = 11.062
Mon Feb 25 16:59:57 2008

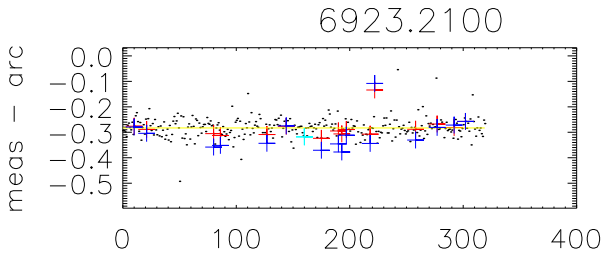

PLATE=0727 MJD=52207 Extraction chi^2 for sdR−r2−00011505.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

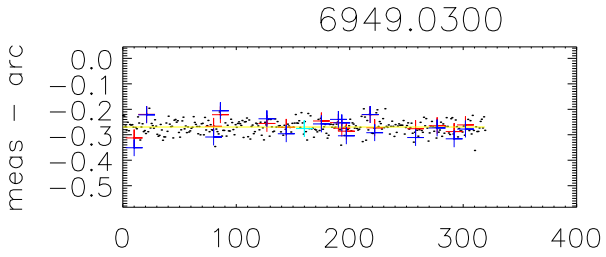

6300.3040
off: −0.35
sig: 0.004
6363.7760
off: −0.34
sig: 0.005
6553.6100
off: −0.39
sig: 0.020
6923.2100
off: −0.32
sig: 0.012
6949.0300
off: −0.28
sig: 0.011
7571.7500
off: −0.29
sig: 0.009
7794.1200
off: −0.37
sig: 0.006
7821.5100
off: −0.34
sig: 0.005
8399.1600
off: −0.29
sig: 0.004
8430.1700
off: −0.29
sig: 0.004
8885.8300
off: −0.26
sig: 0.004
8919.6100
off: −0.26
sig: 0.004

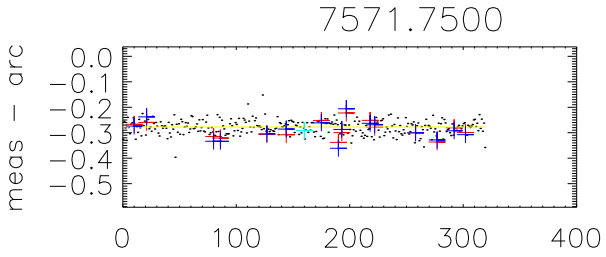

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

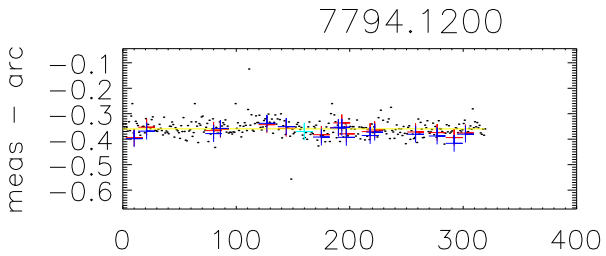

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

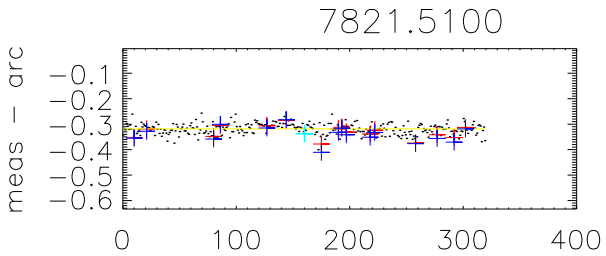

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

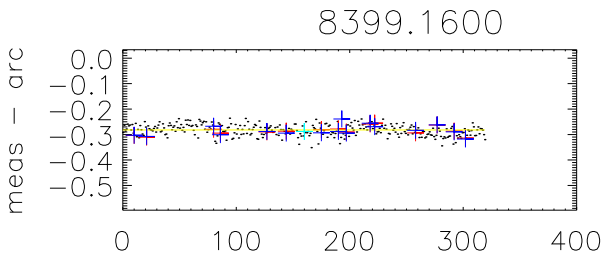

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

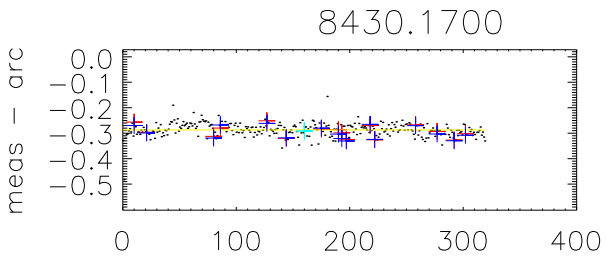

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

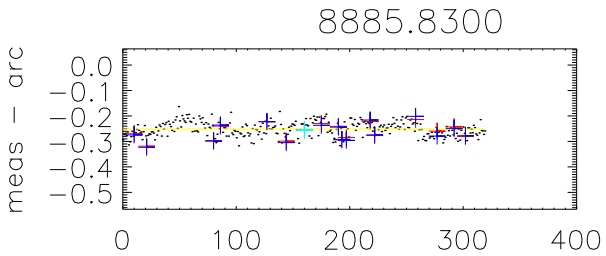

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

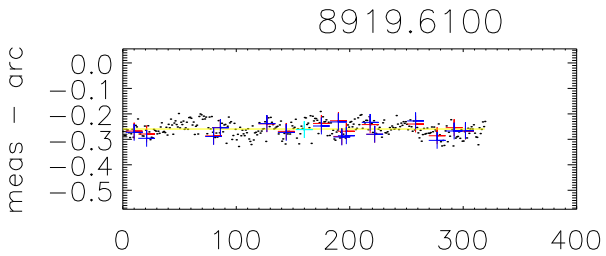

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

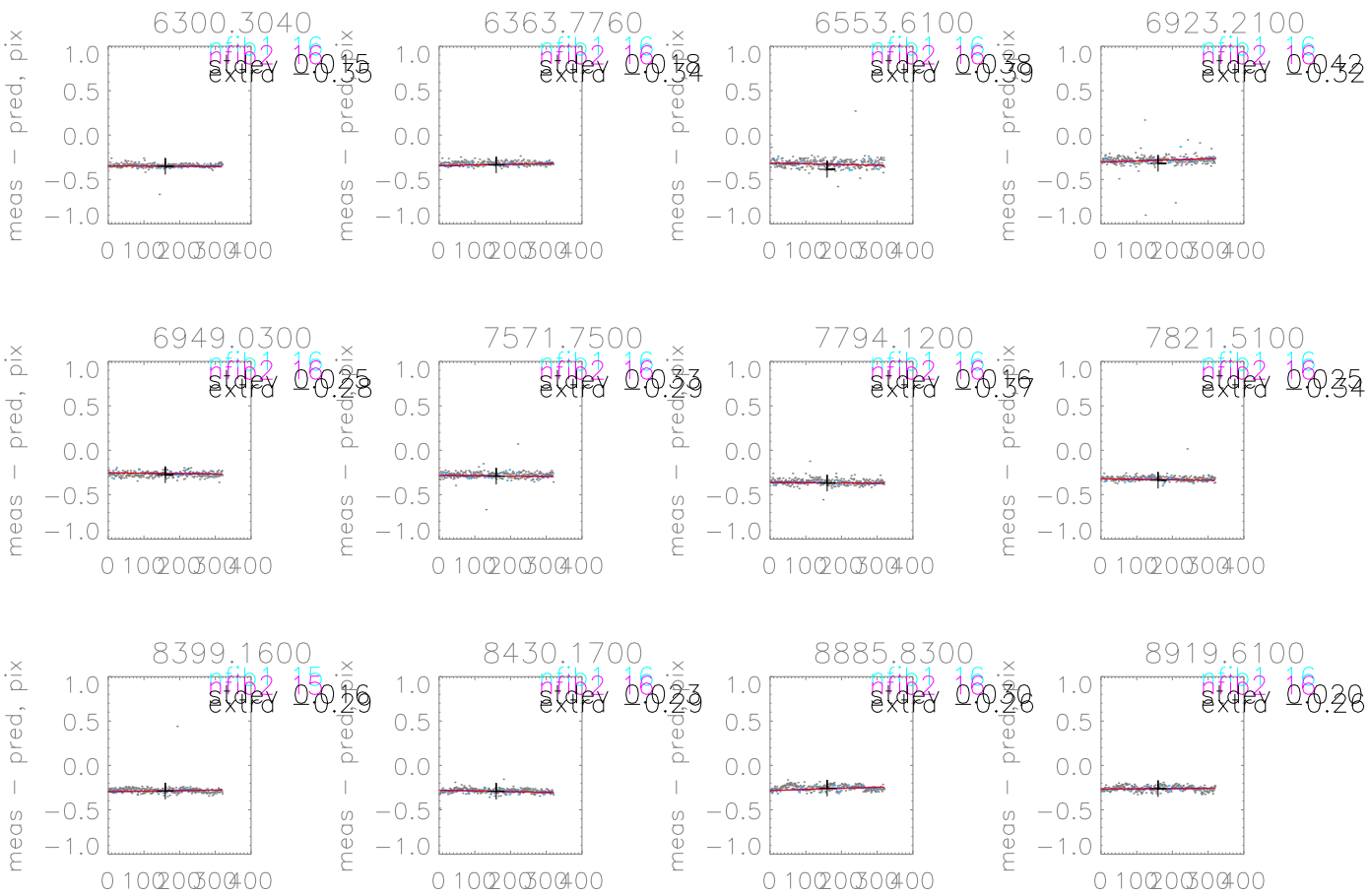

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

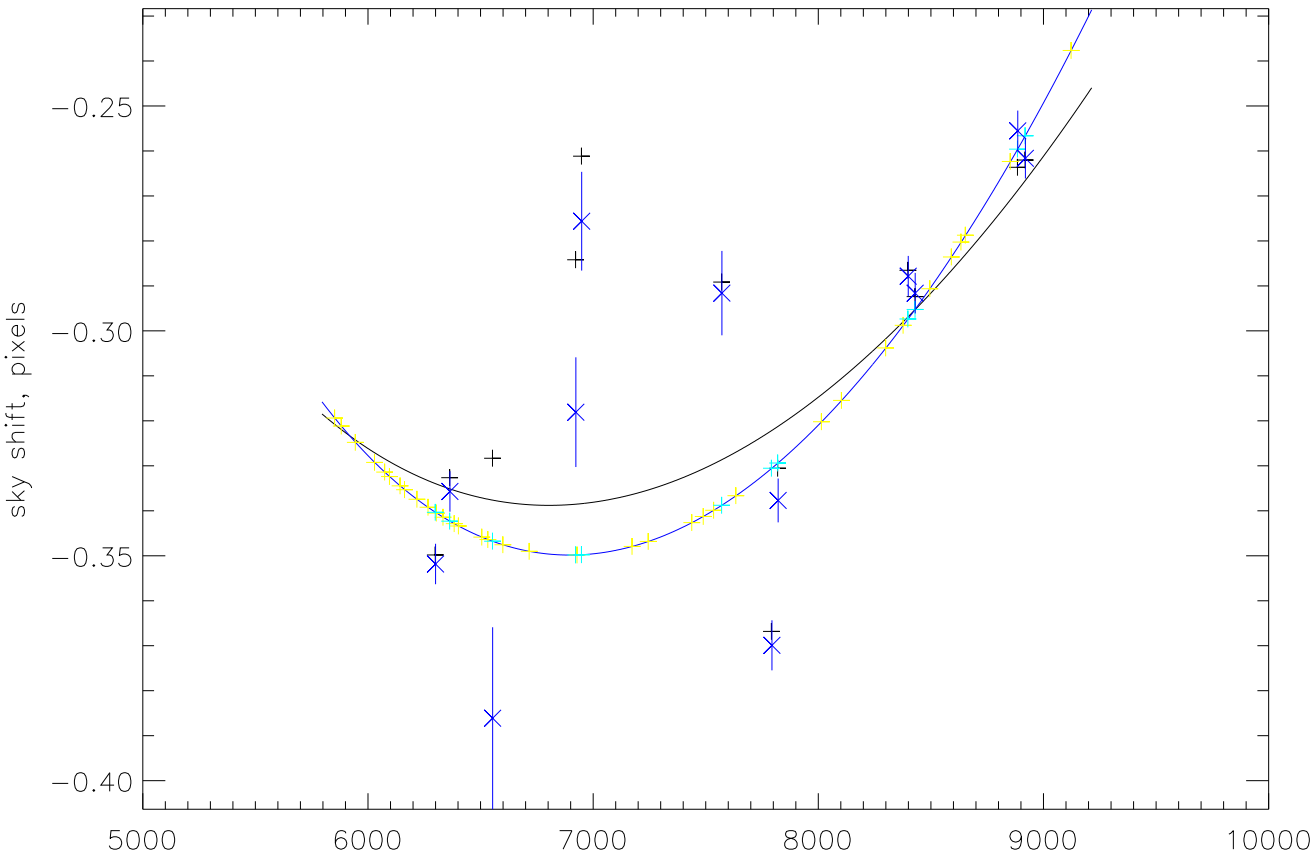

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

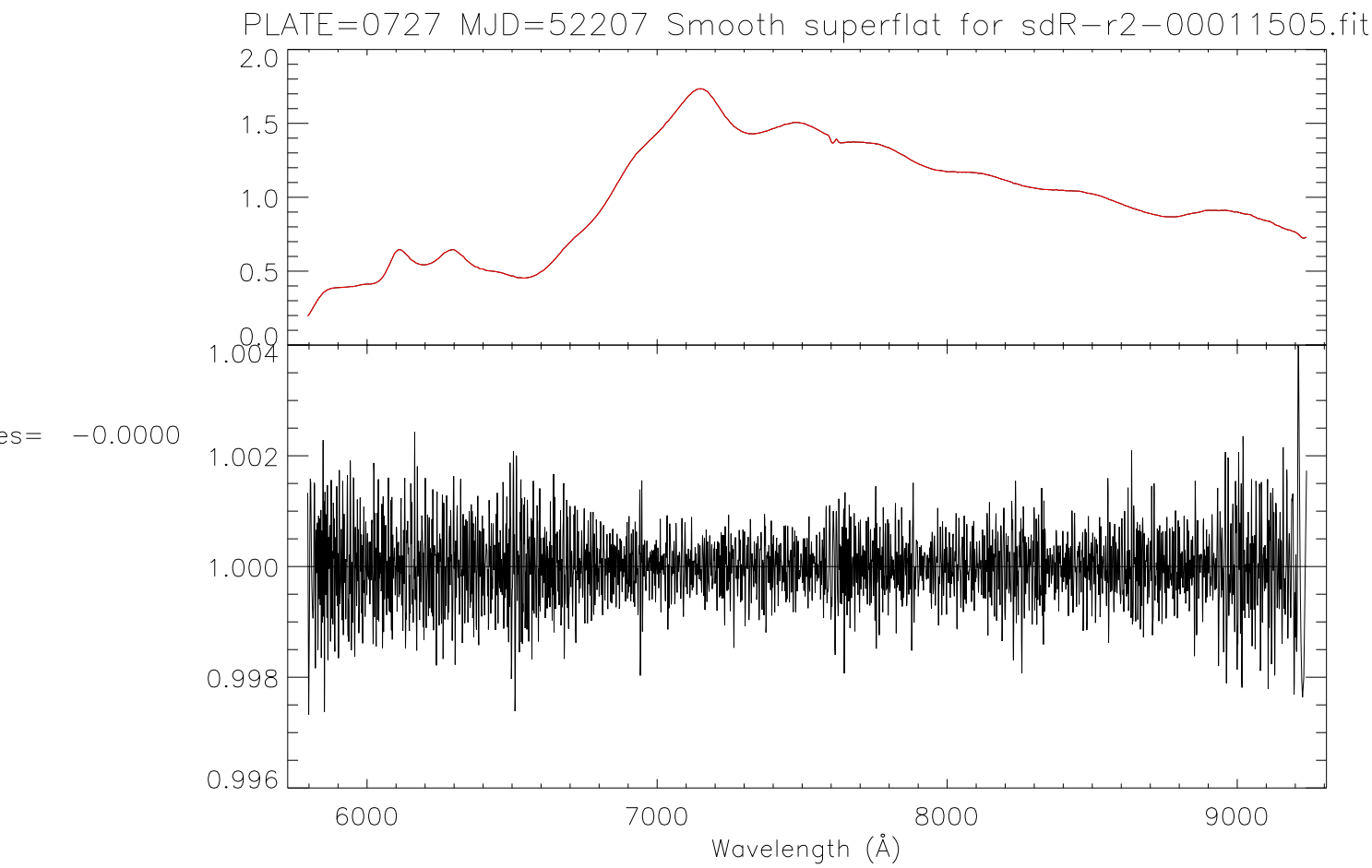

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

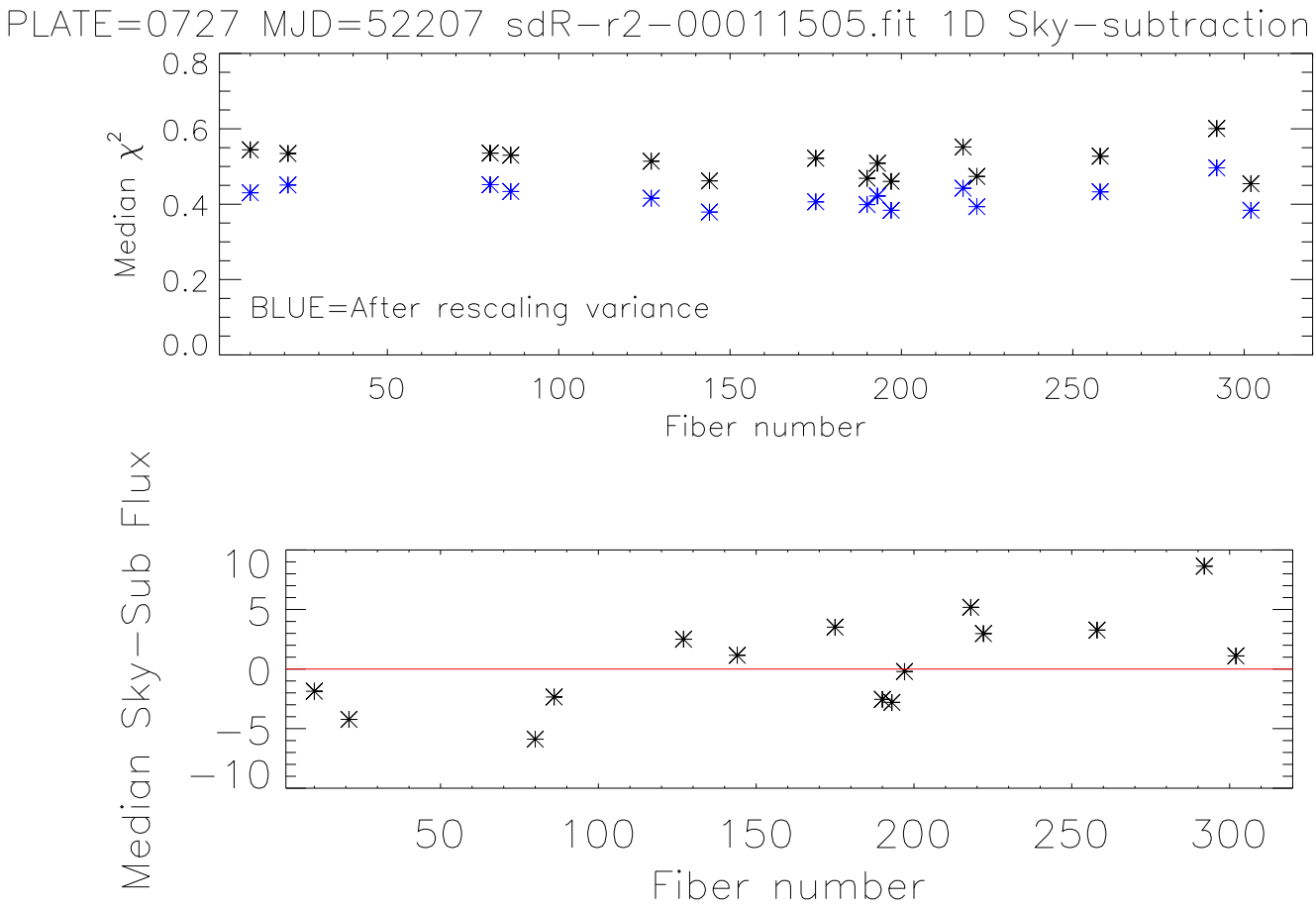

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

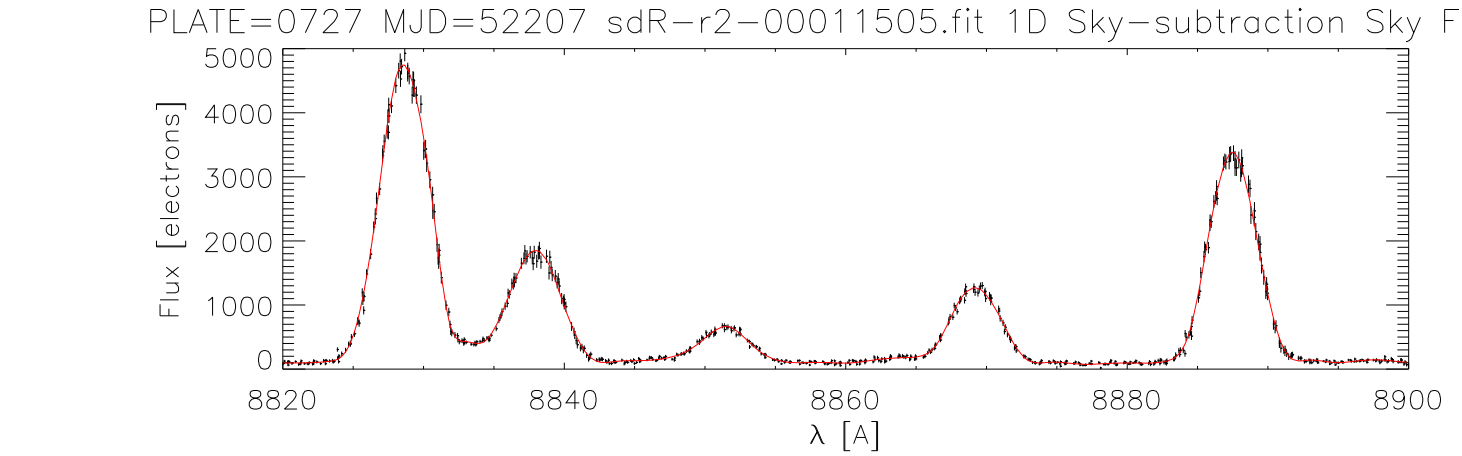

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

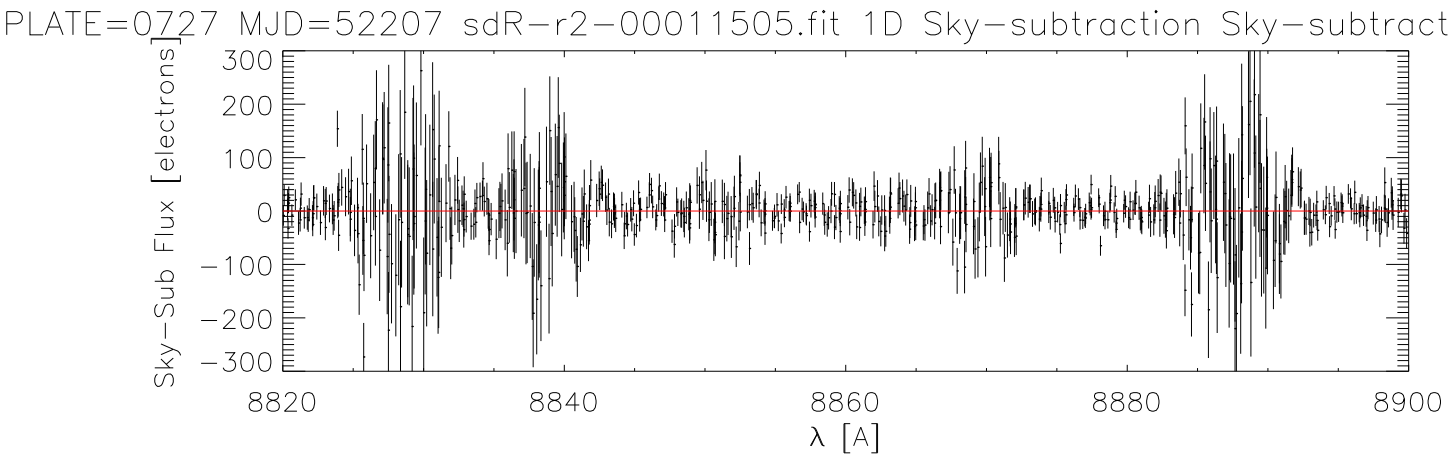

6300.3040
mfib1 16
mfib2 16
stdev 0.035
extrd 0.35
6363.7760
mfib1 16
mfib2 16
stdev 0.034
extrd 0.34
6553.6100
mfib1 16
mfib2 16
stdev 0.038
extrd 0.39
6923.2100
mfib1 16
mfib2 16
stdev 0.042
extrd 0.32
6949.0300
mfib1 16
mfib2 16
stdev 0.025
extrd 0.28
7571.7500
mfib1 16
mfib2 16
stdev 0.033
extrd 0.29
7794.1200
mfib1 16
mfib2 16
stdev 0.036
extrd 0.37
7821.5100
mfib1 16
mfib2 16
stdev 0.035
extrd 0.34
8399.1600
mfib1 15
mfib2 16
stdev 0.026
extrd 0.29
8430.1700
mfib1 16
mfib2 16
stdev 0.023
extrd 0.29
8885.8300
mfib1 16
mfib2 16
stdev 0.030
extrd 0.26
8919.6100
mfib1 16
mfib2 16
stdev 0.020
extrd 0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

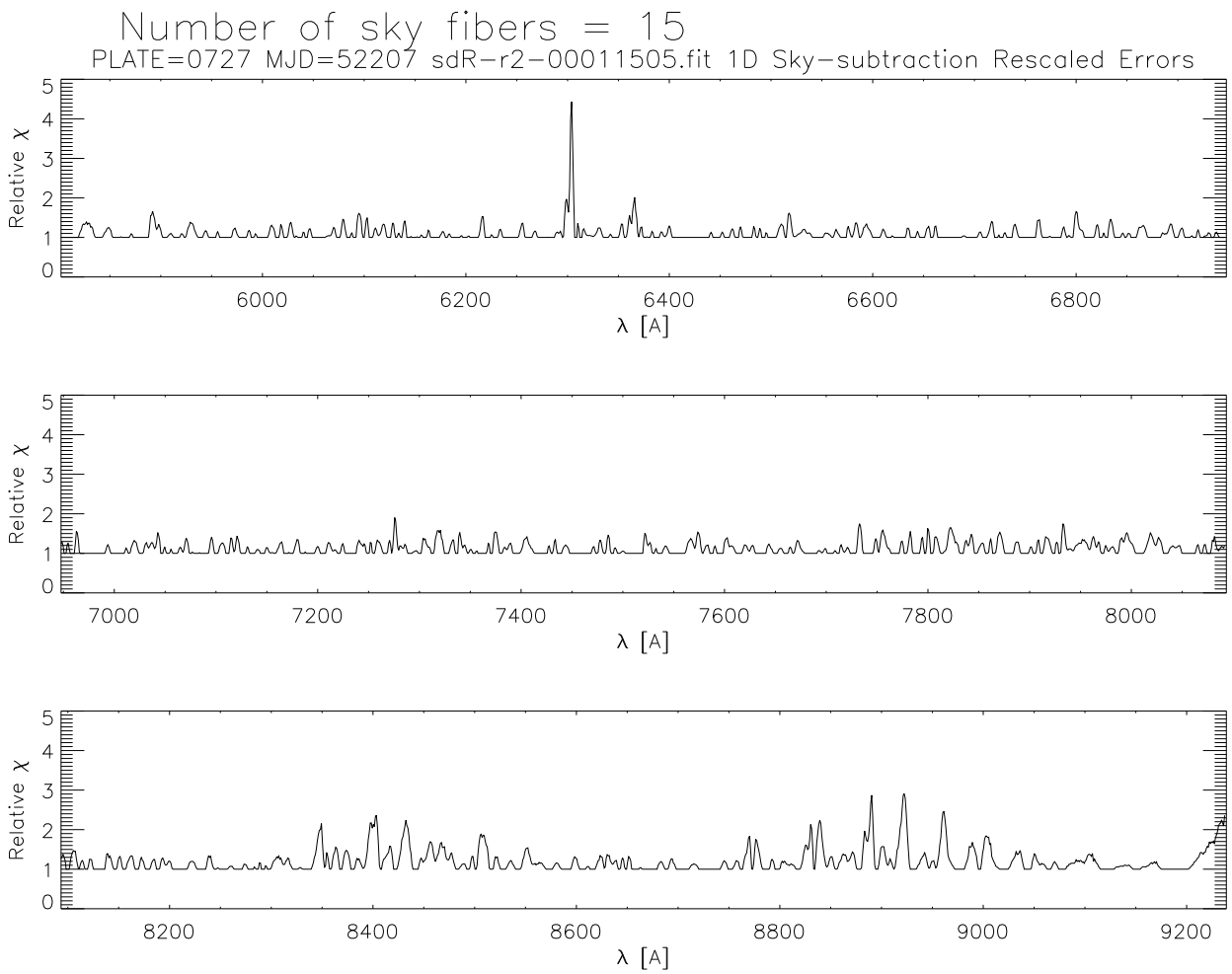

sky shift, pixels
−0.25
−0.30
−0.35
−0.40
5000
6000
7000
8000
9000
10000

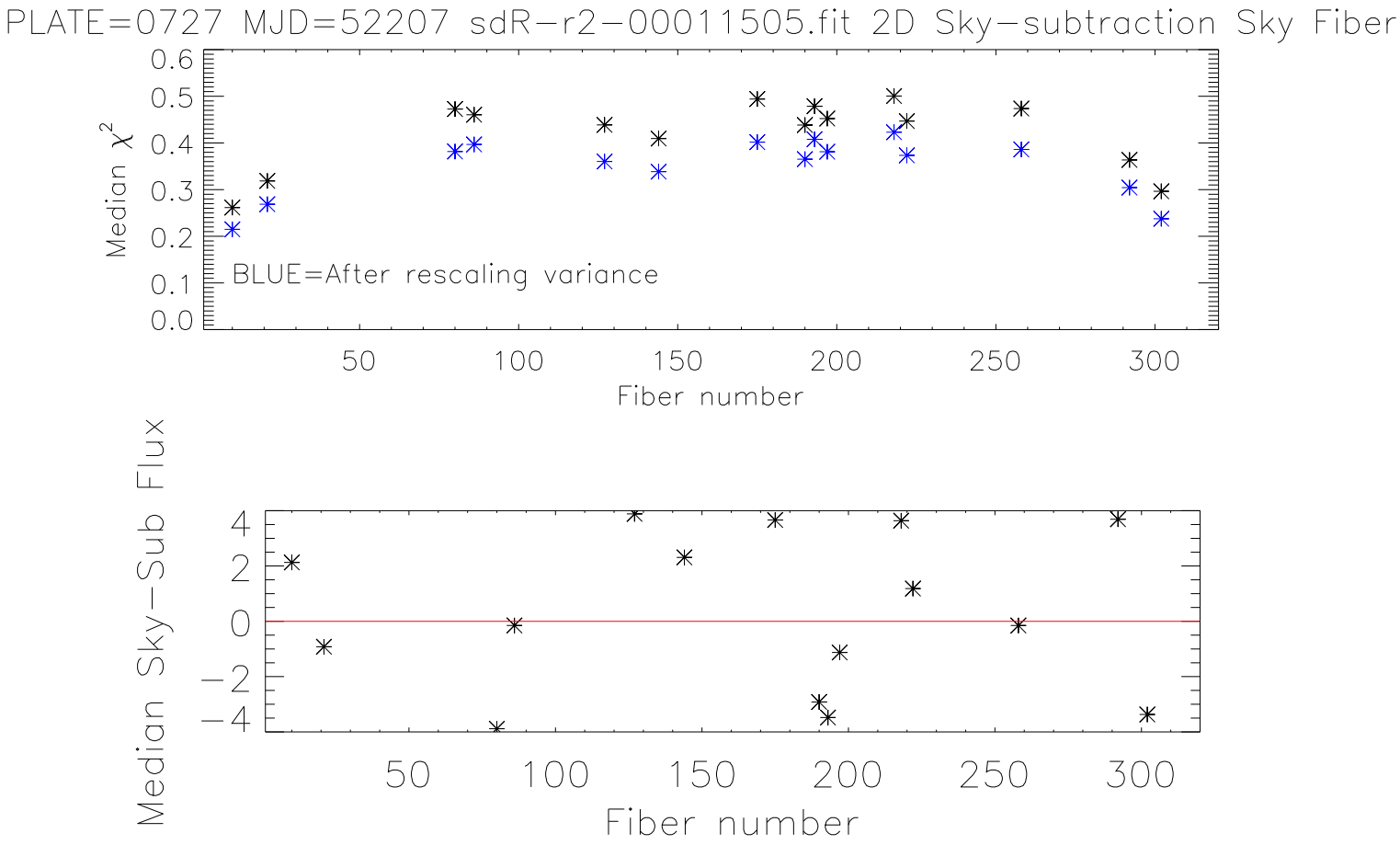

PLATE=0727 MJD=52207 Smooth superflat for sdR-r2-00011505.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

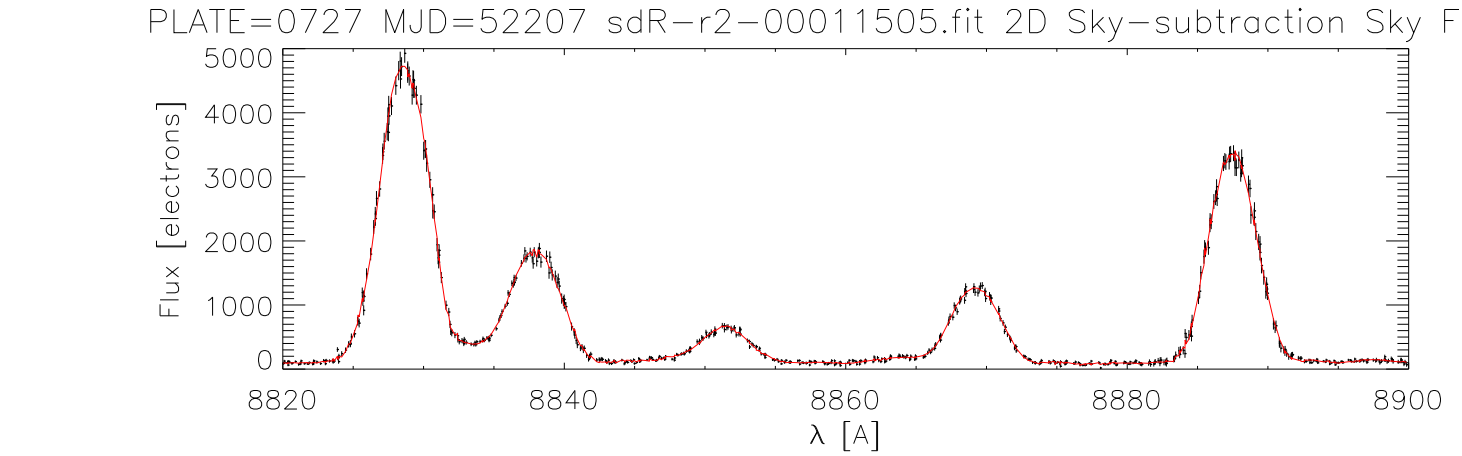

PLATE=0727 MJD=52207 sdR-r2-00011505.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

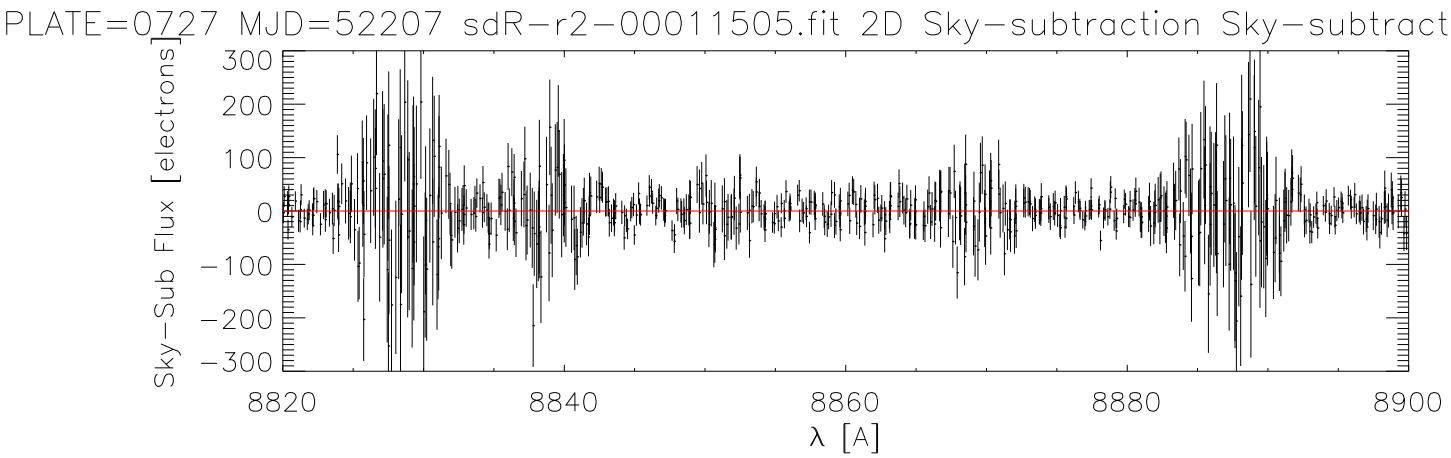

PLATE=0727 MJD=52207 sdR-r2-00011505.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

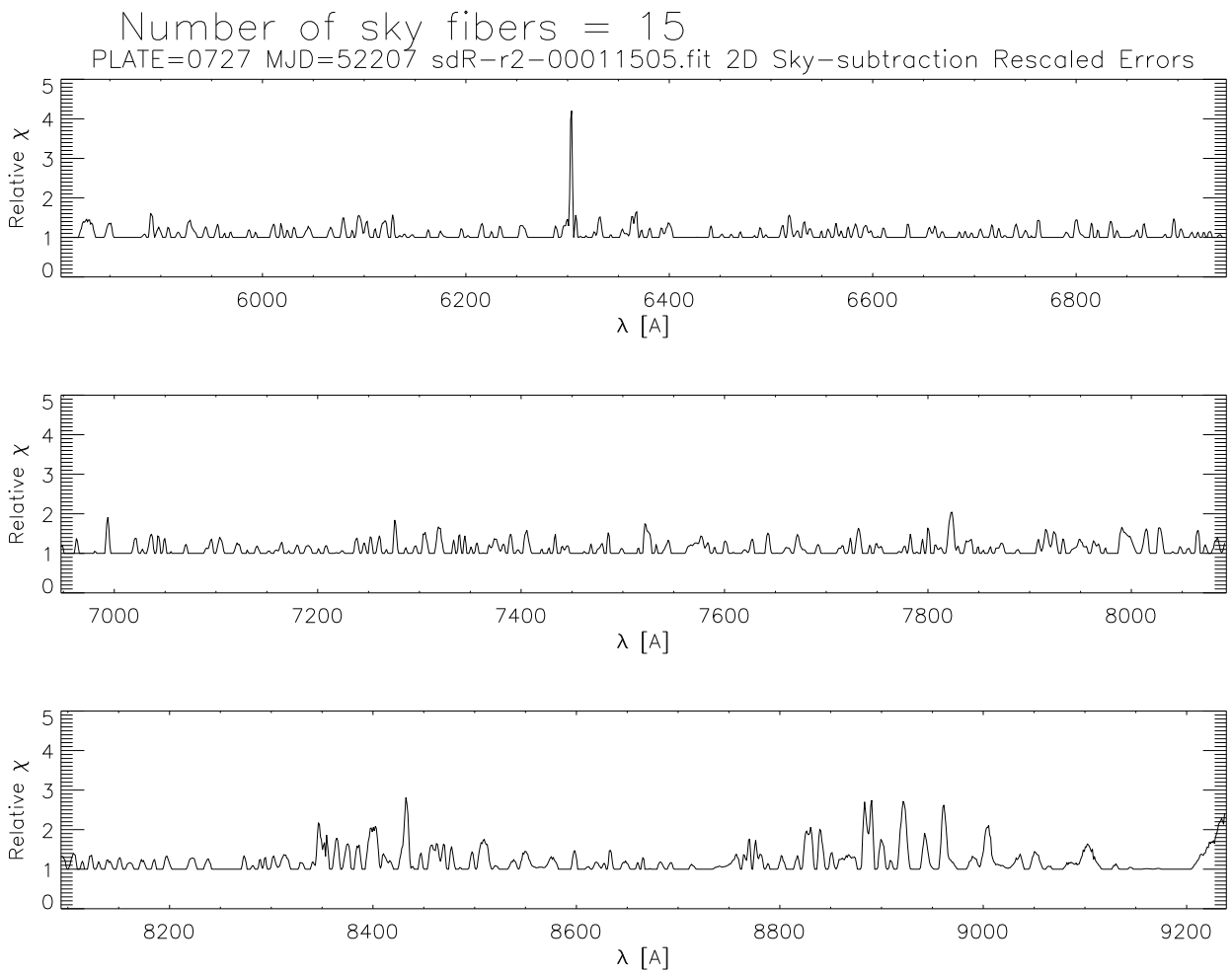

PLATE=0727 MJD=52207 sdR-r2-00011505.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

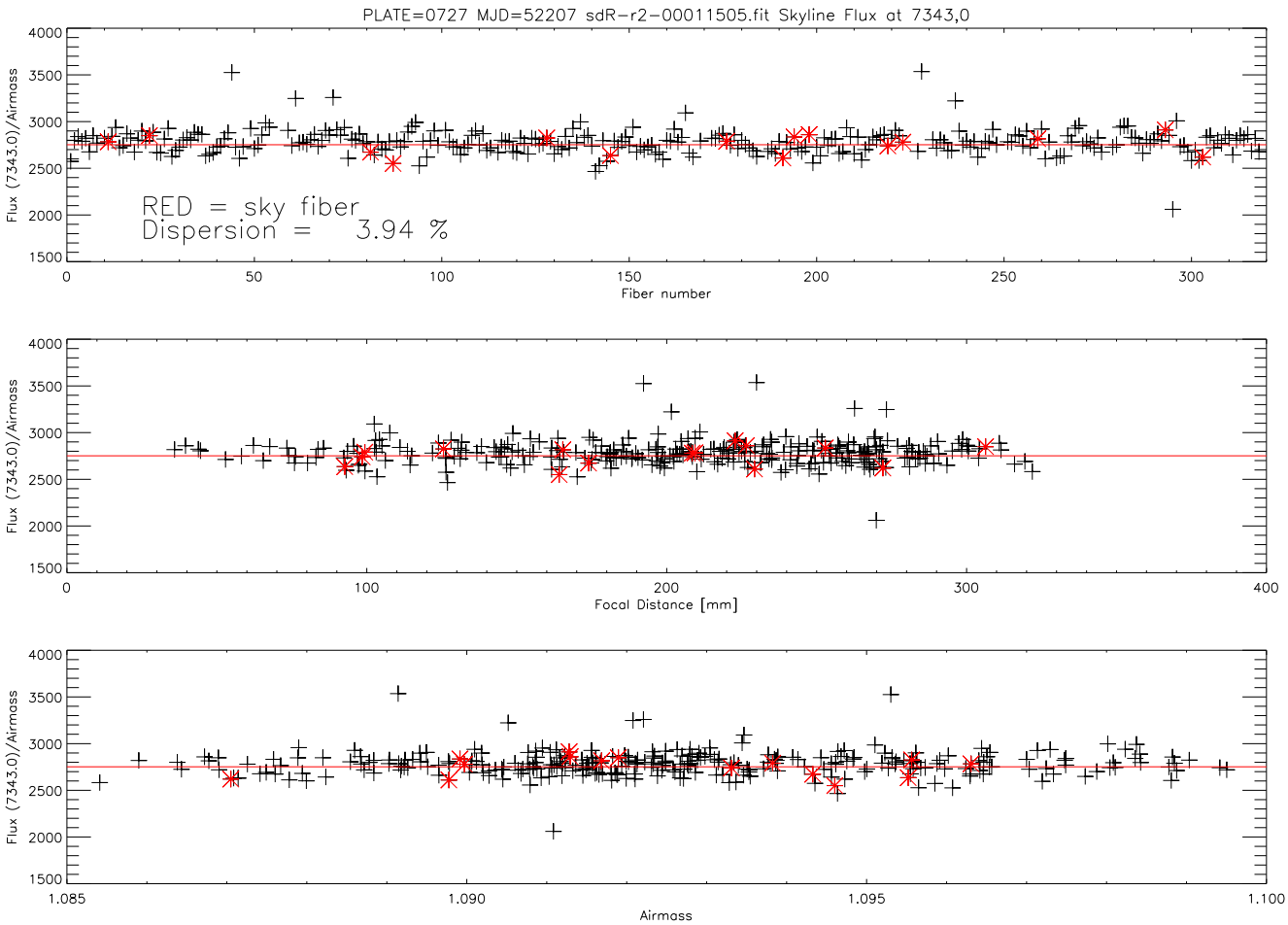

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-r2-00011505.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

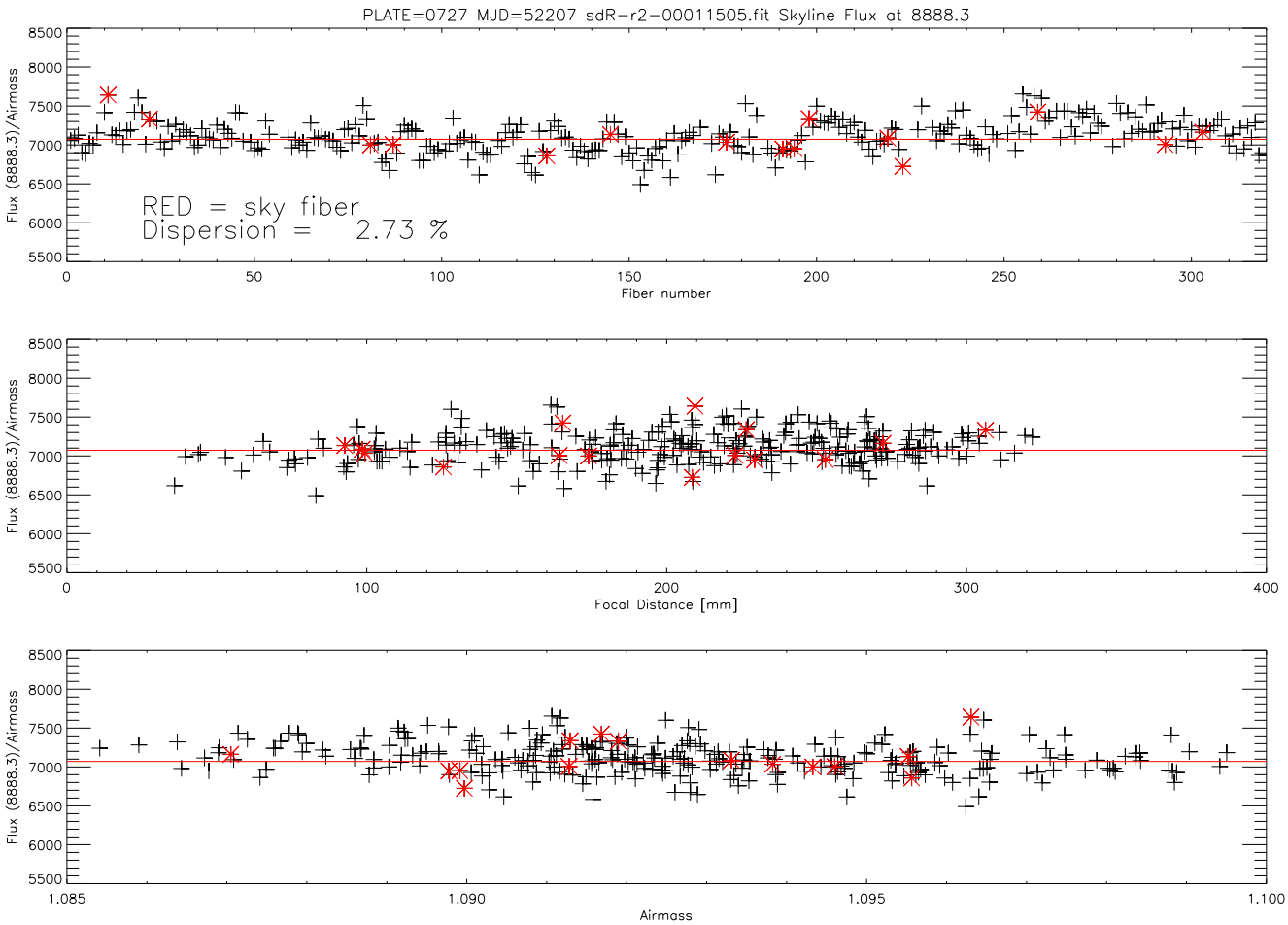

PLATE=0727 MJD=52207 sdR-r2-00011505.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

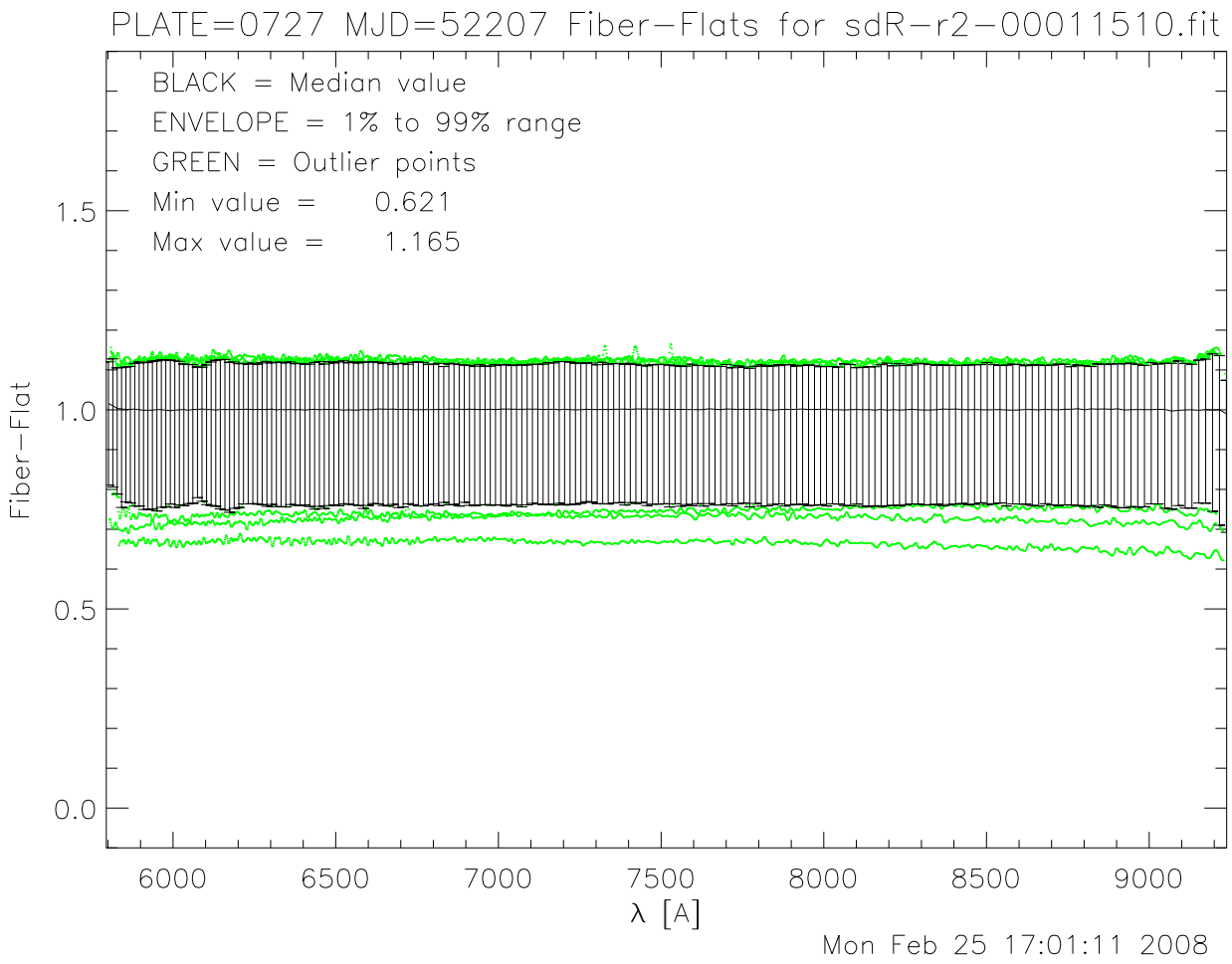

PLATE=0727 MJD=52207 sdR-r2-00011505.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

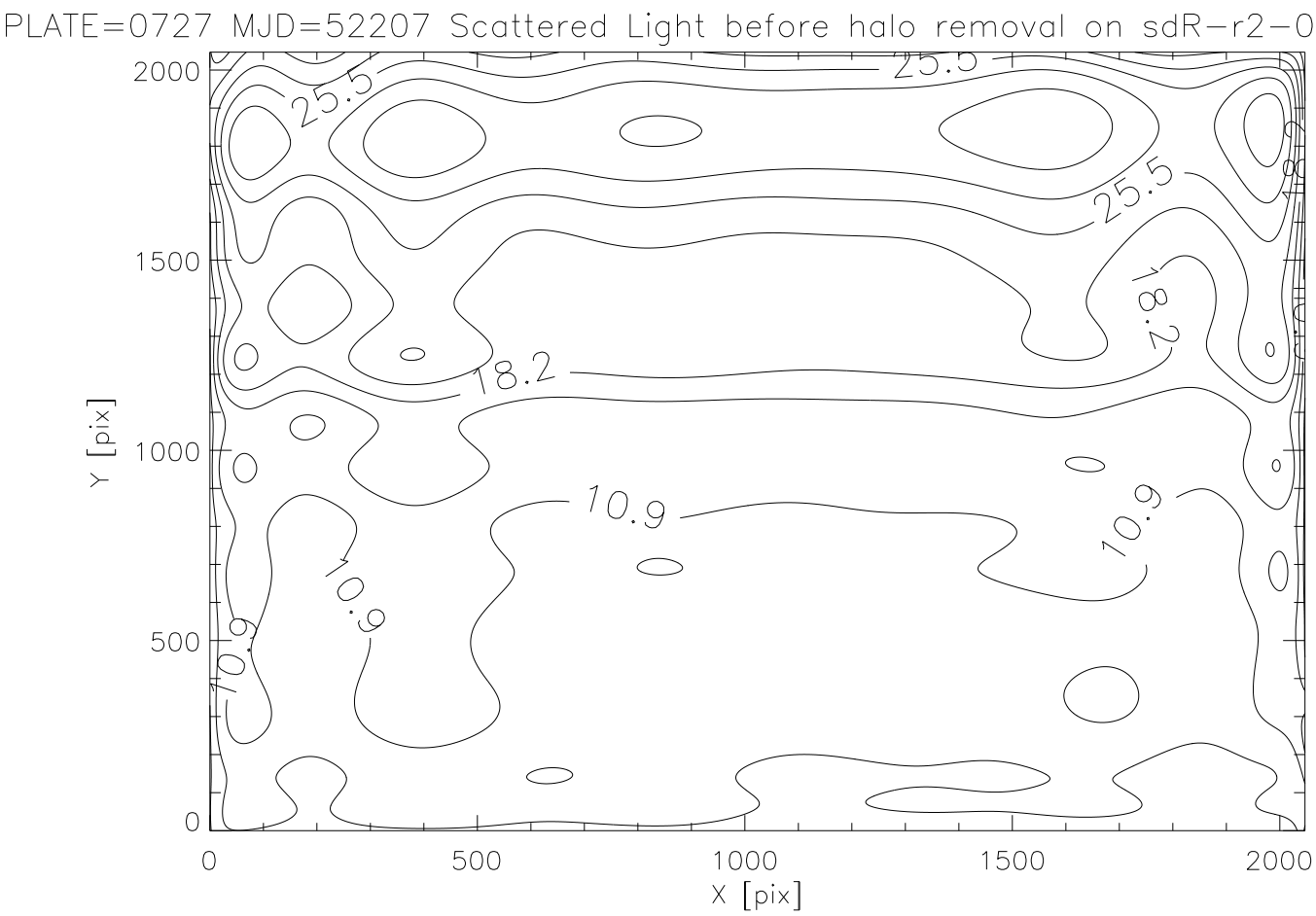

PLATE=0727 MJD=52207 sdR-r2-00011505.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

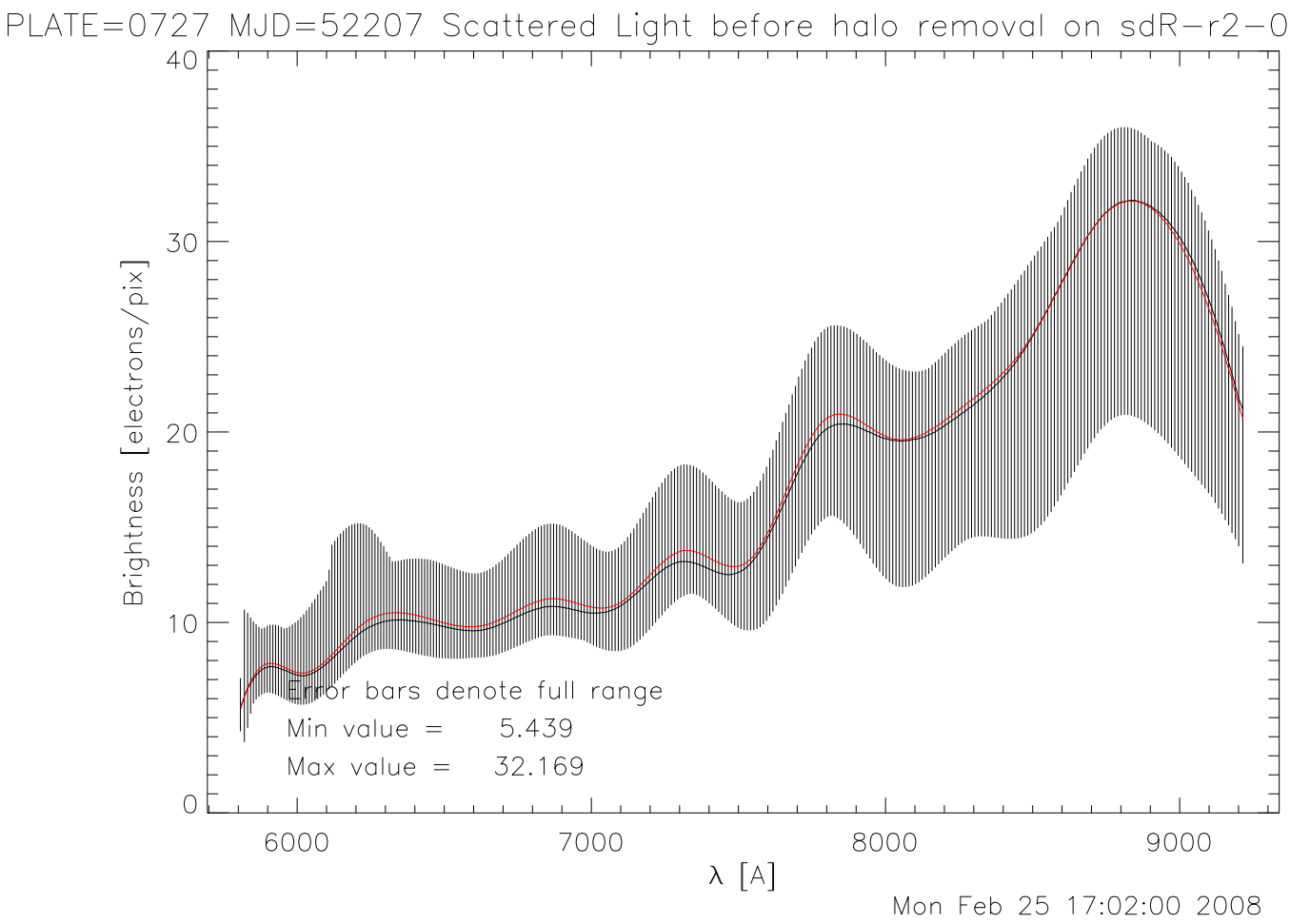

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-r2-00011505.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

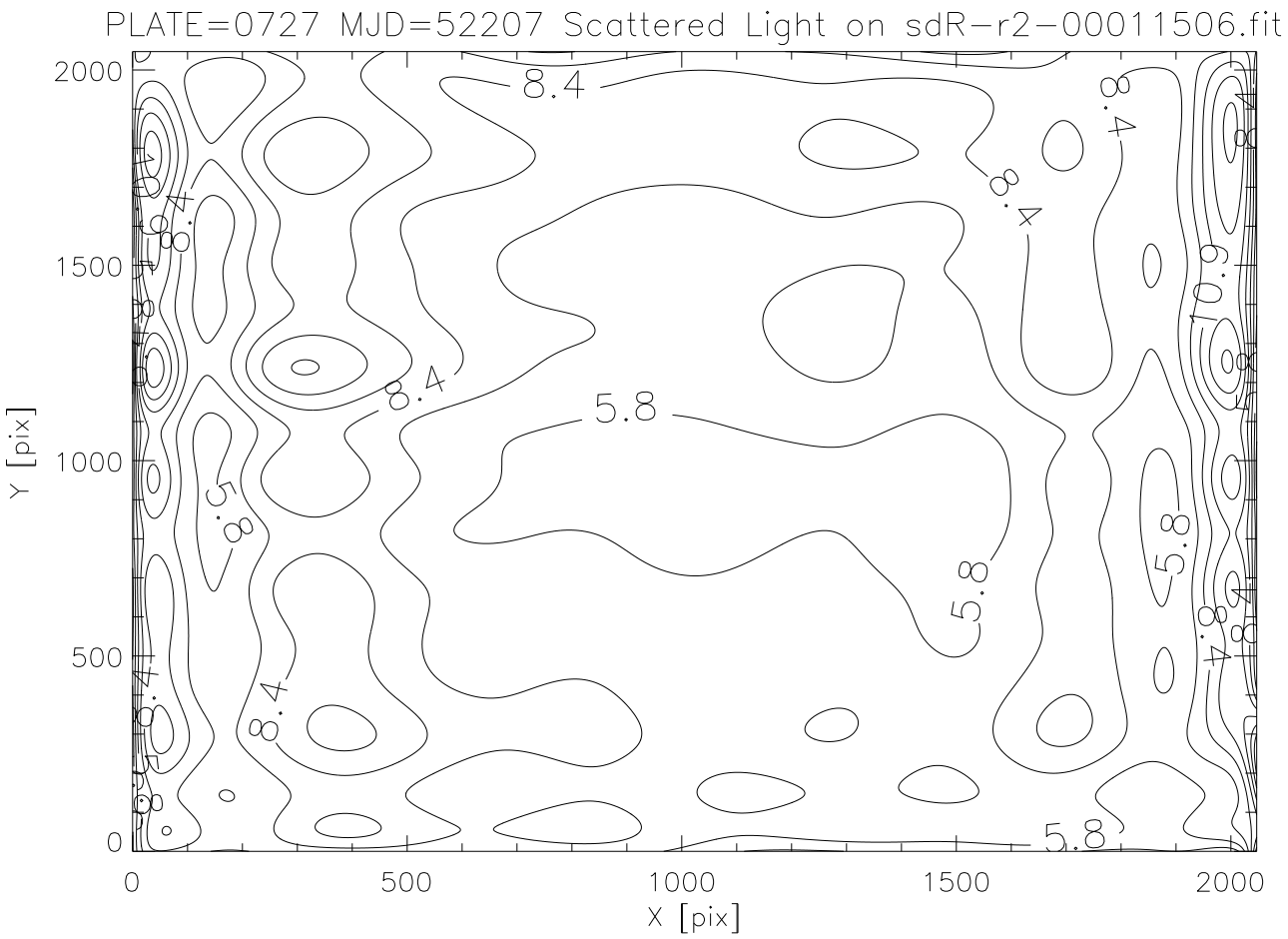

PLATE=0727 MJD=52207 sdR-r2-00011505.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.94 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

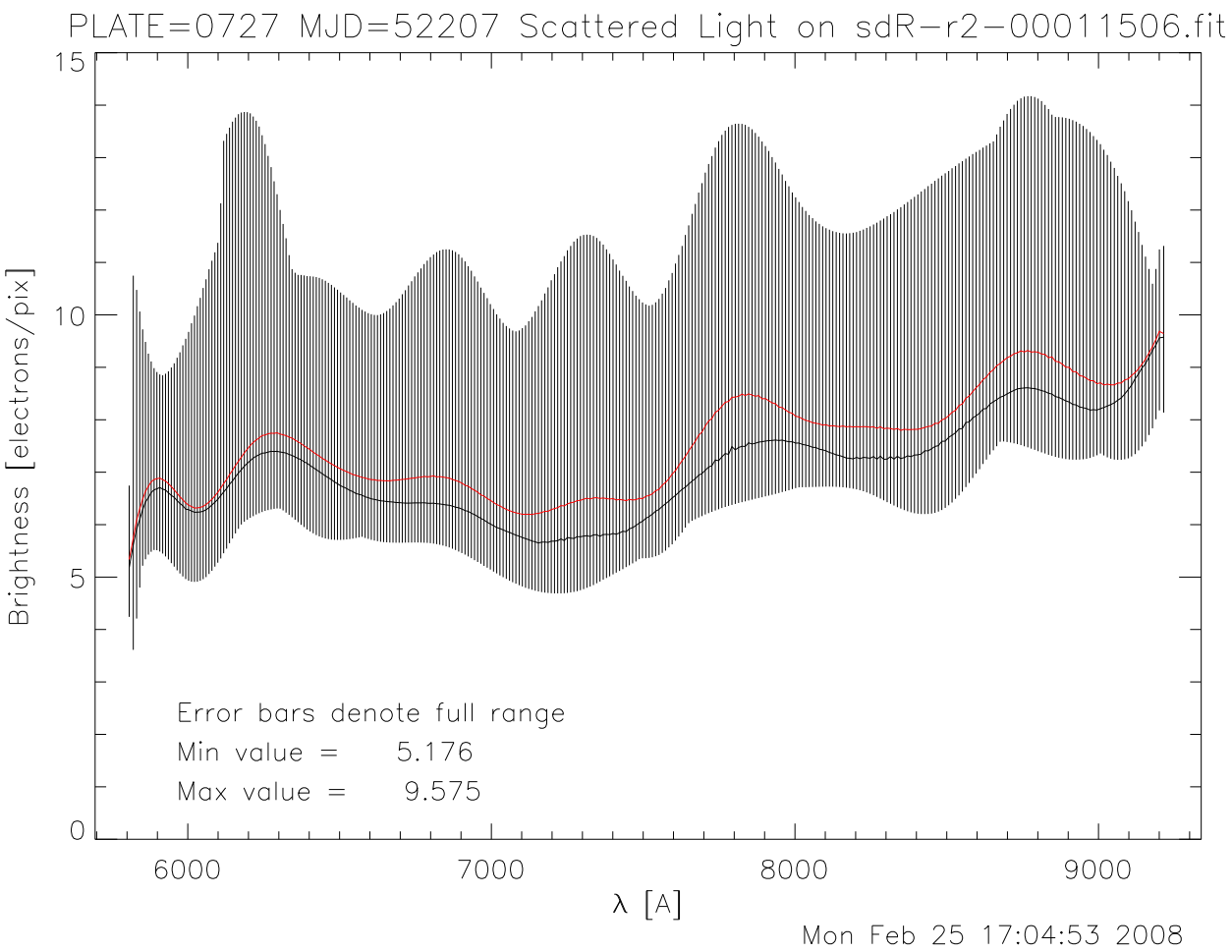

PLATE=0727 MJD=52207 sdR-r2-00011505.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.73 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

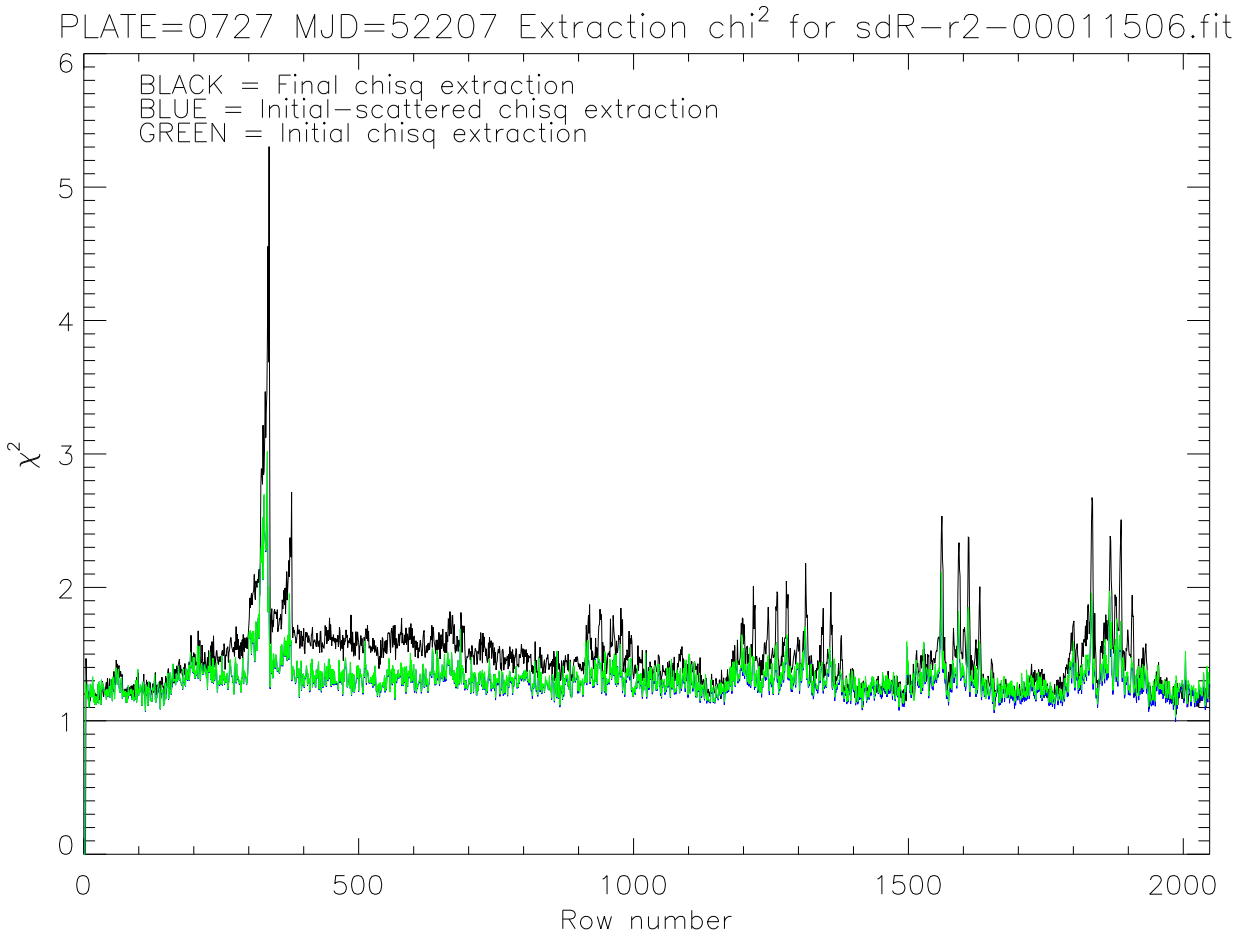

PLATE=0727 MJD=52207 Fiber−Flats for sdR−r2−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.621
Max value = 1.165
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 17:01:11 2008

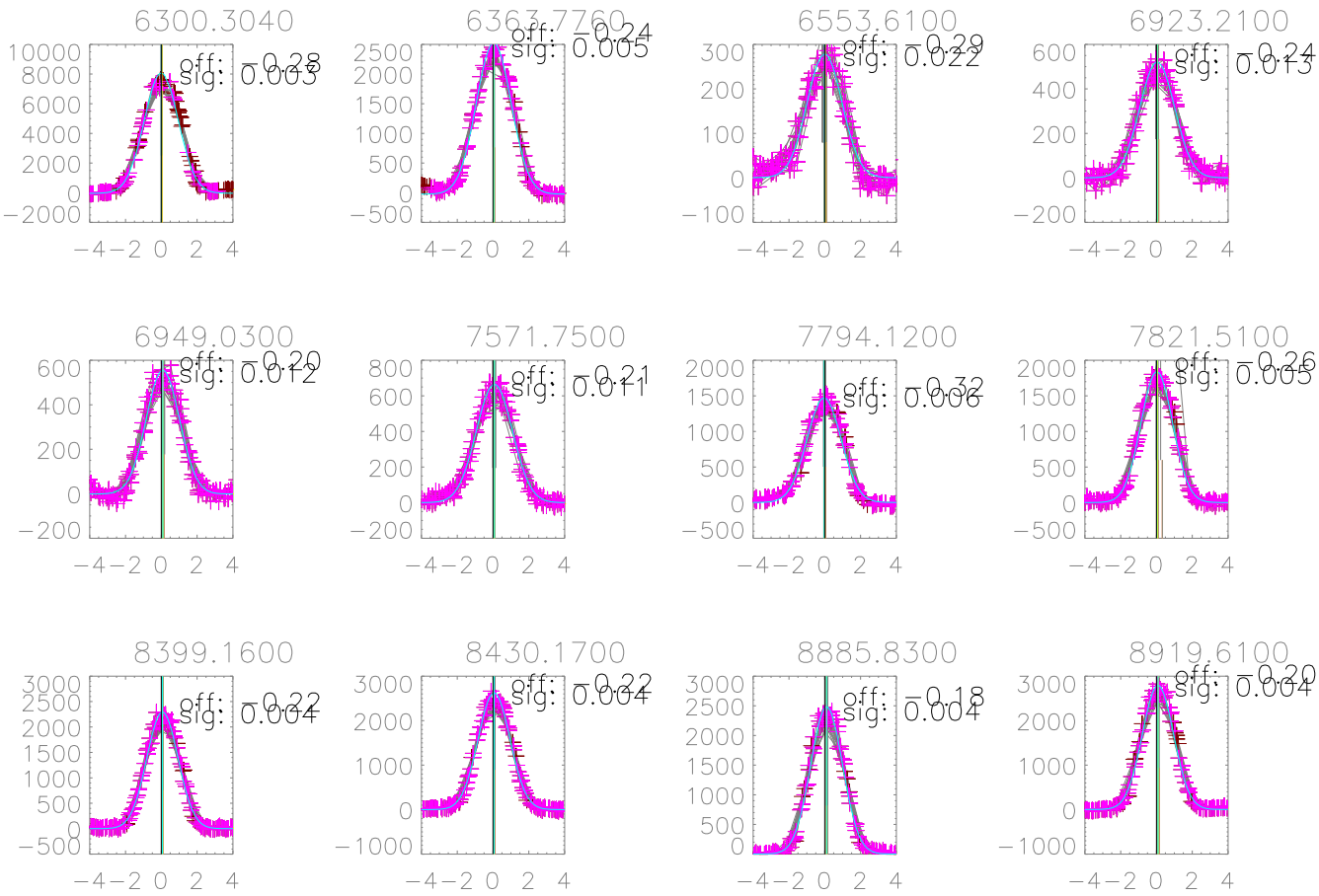

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r2-00011506.fi
25.5
18.2
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

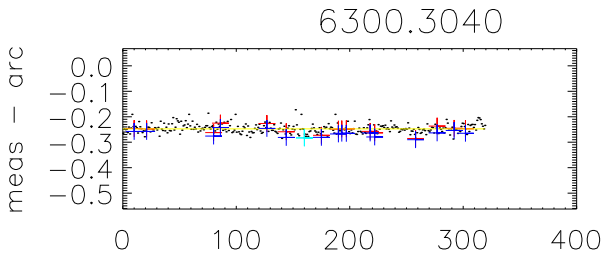

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r2-00011506.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.439
Max value = 32.169
Mon Feb 25 17:02:00 2008

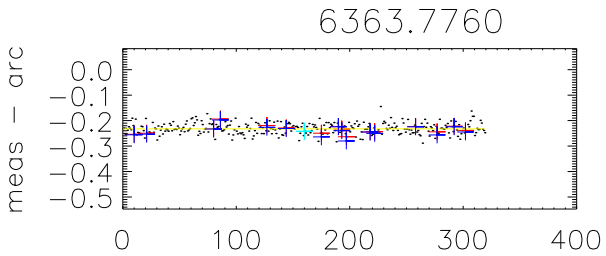

PLATE=0727 MJD=52207 Scattered Light on sdR-r2-00011506.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.4
5.8

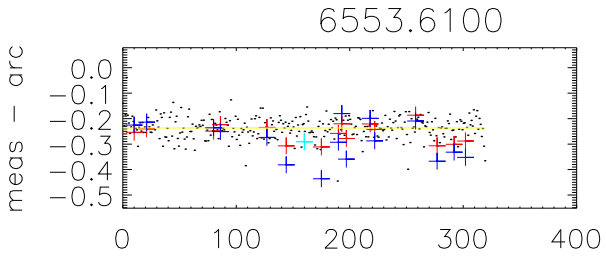

PLATE=0727 MJD=52207 Scattered Light on sdR-r2-00011506.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.176
Max value = 9.575
Mon Feb 25 17:04:53 2008

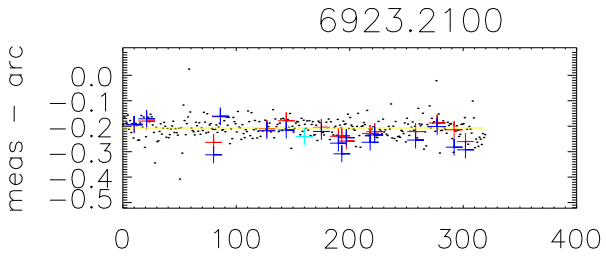

PLATE=0727 MJD=52207 Extraction chi^2 for sdR-r2-00011506.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

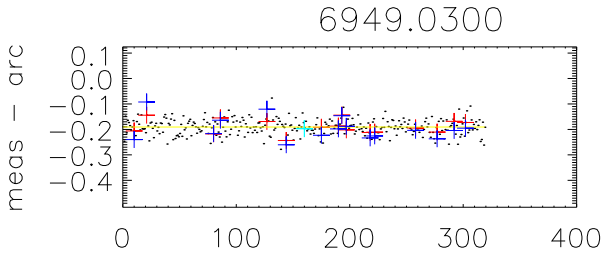

6300.3040
off: −0.28
sig: 0.003
6363.7760
off: −0.24
sig: 0.005
6553.6100
off: −0.29
sig: 0.022
6923.2100
off: −0.24
sig: 0.013
6949.0300
off: −0.20
sig: 0.012
7571.7500
off: −0.21
sig: 0.011
7794.1200
off: −0.32
sig: 0.006
7821.5100
off: −0.26
sig: 0.005
8399.1600
off: −0.22
sig: 0.004
8430.1700
off: −0.22
sig: 0.004
8885.8300
off: −0.18
sig: 0.004
8919.6100
off: −0.20
sig: 0.004

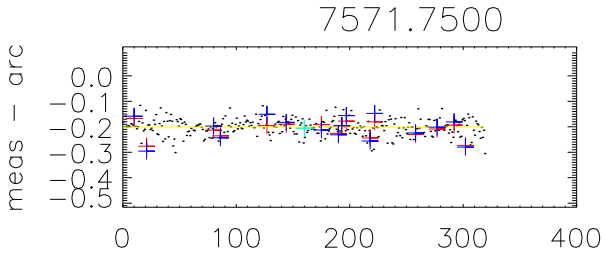

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

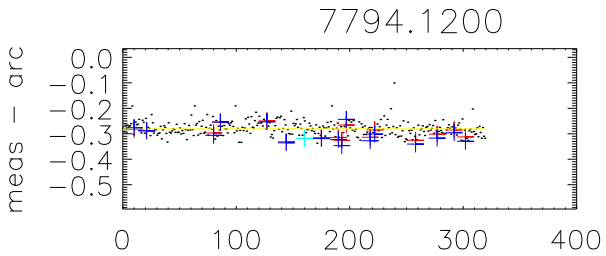

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

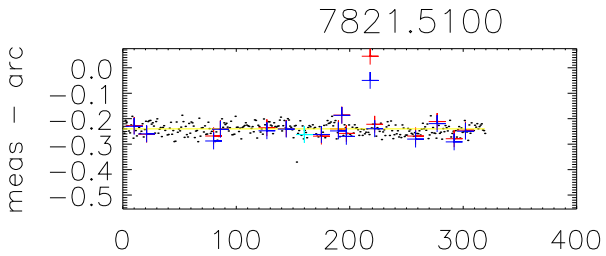

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

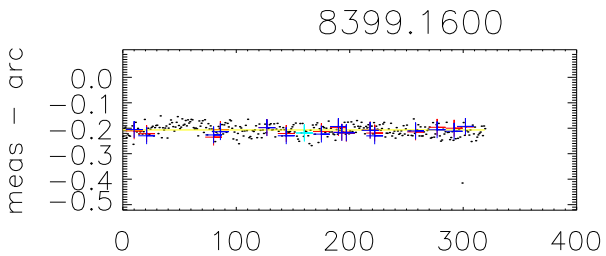

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

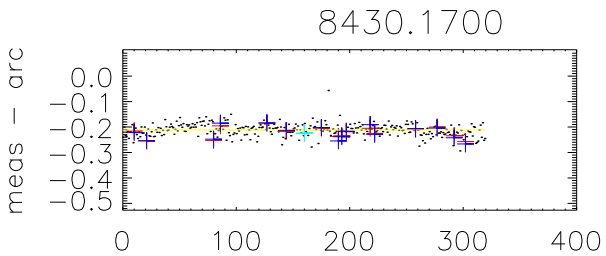

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

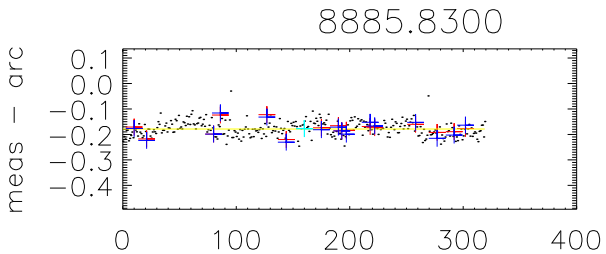

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

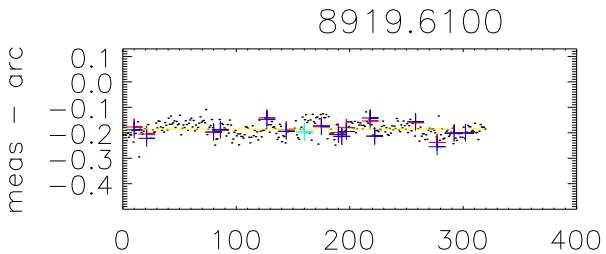

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

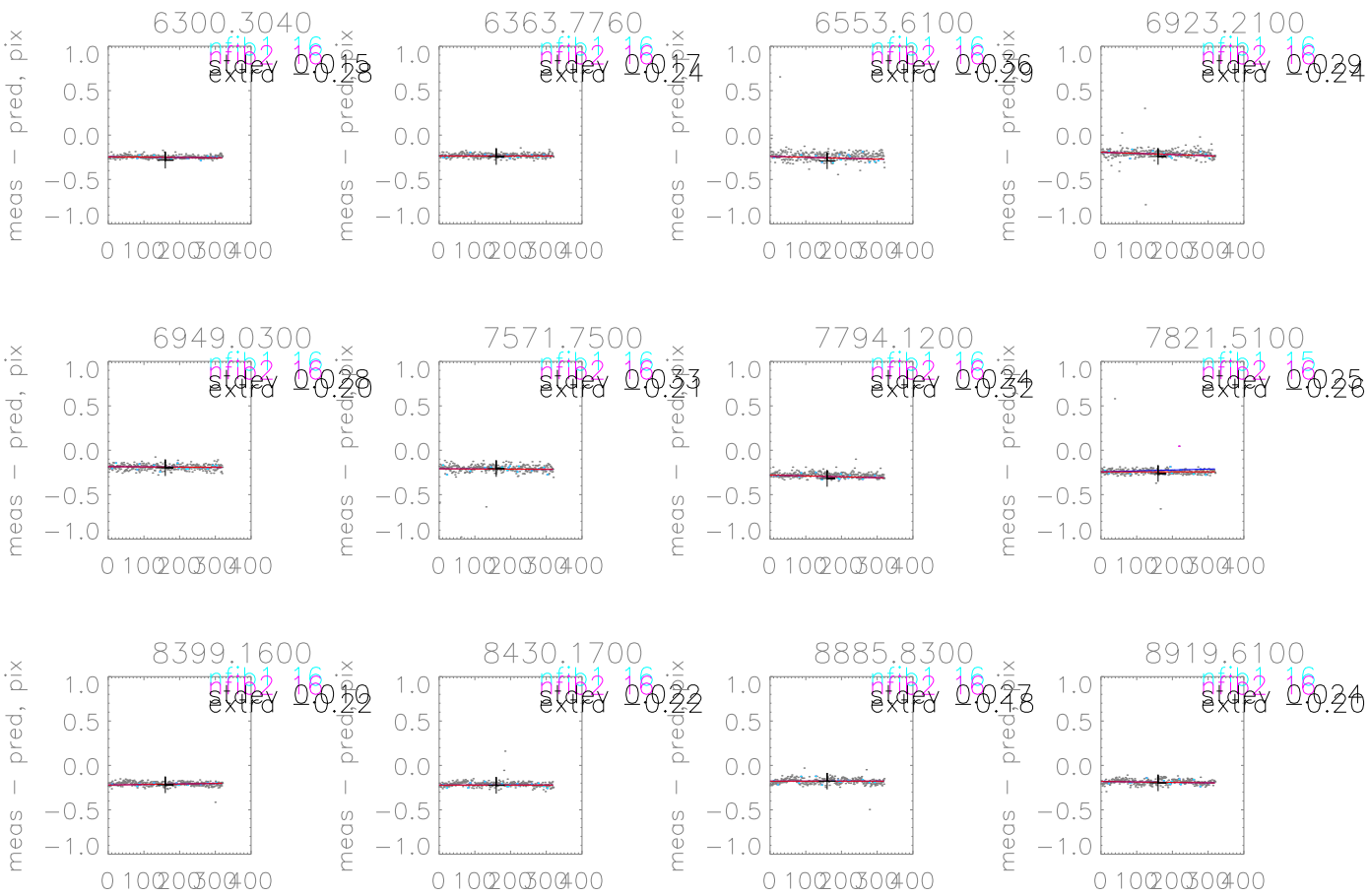

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

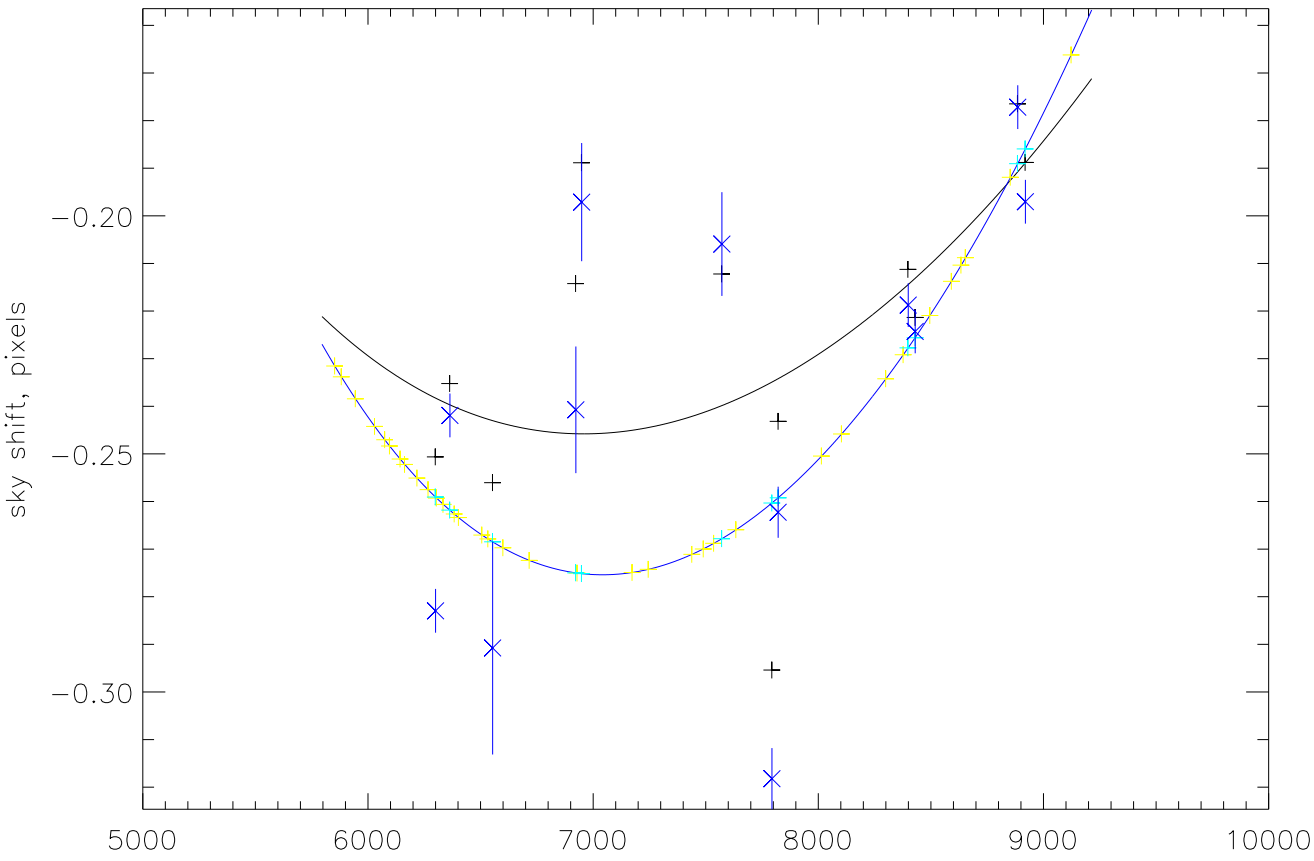

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

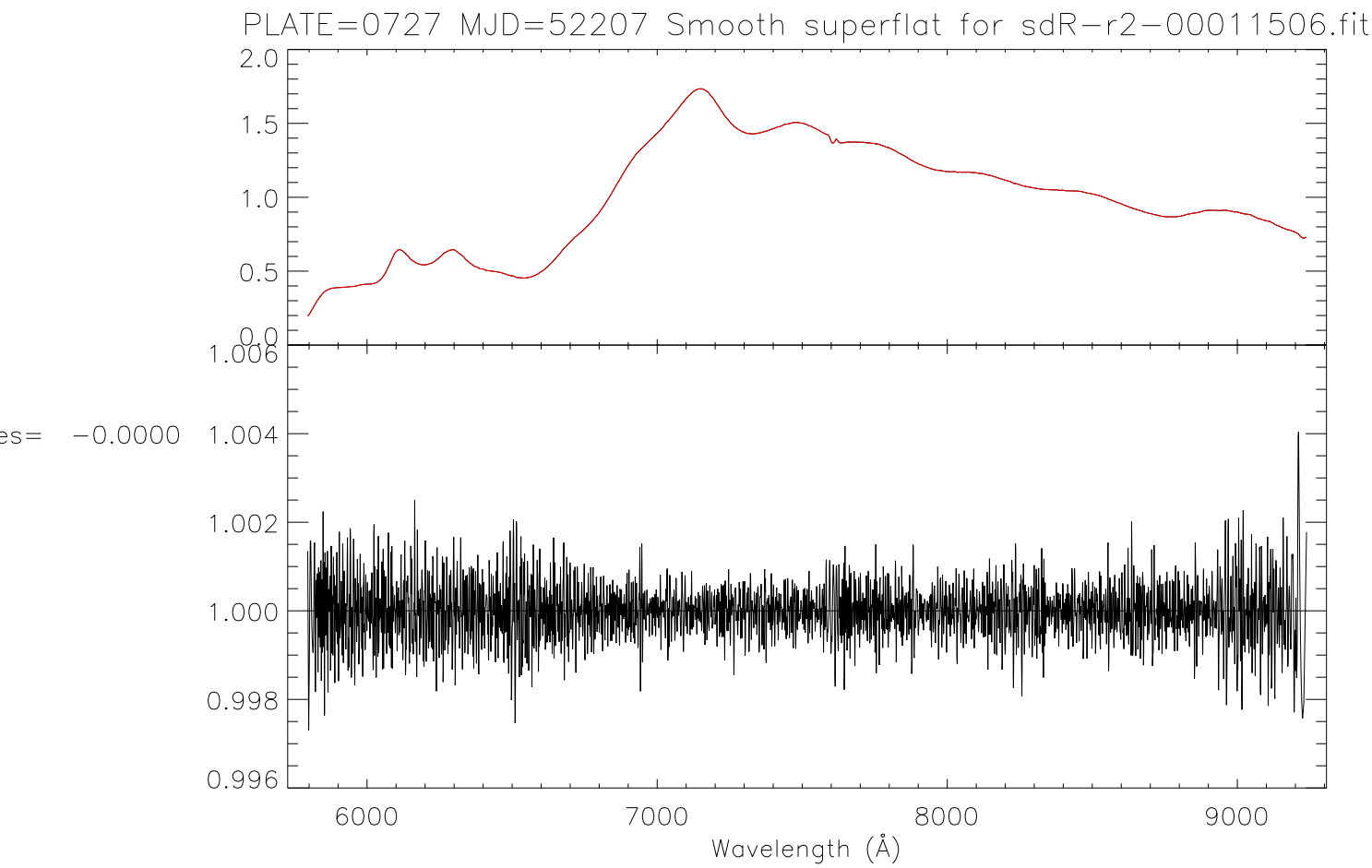

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

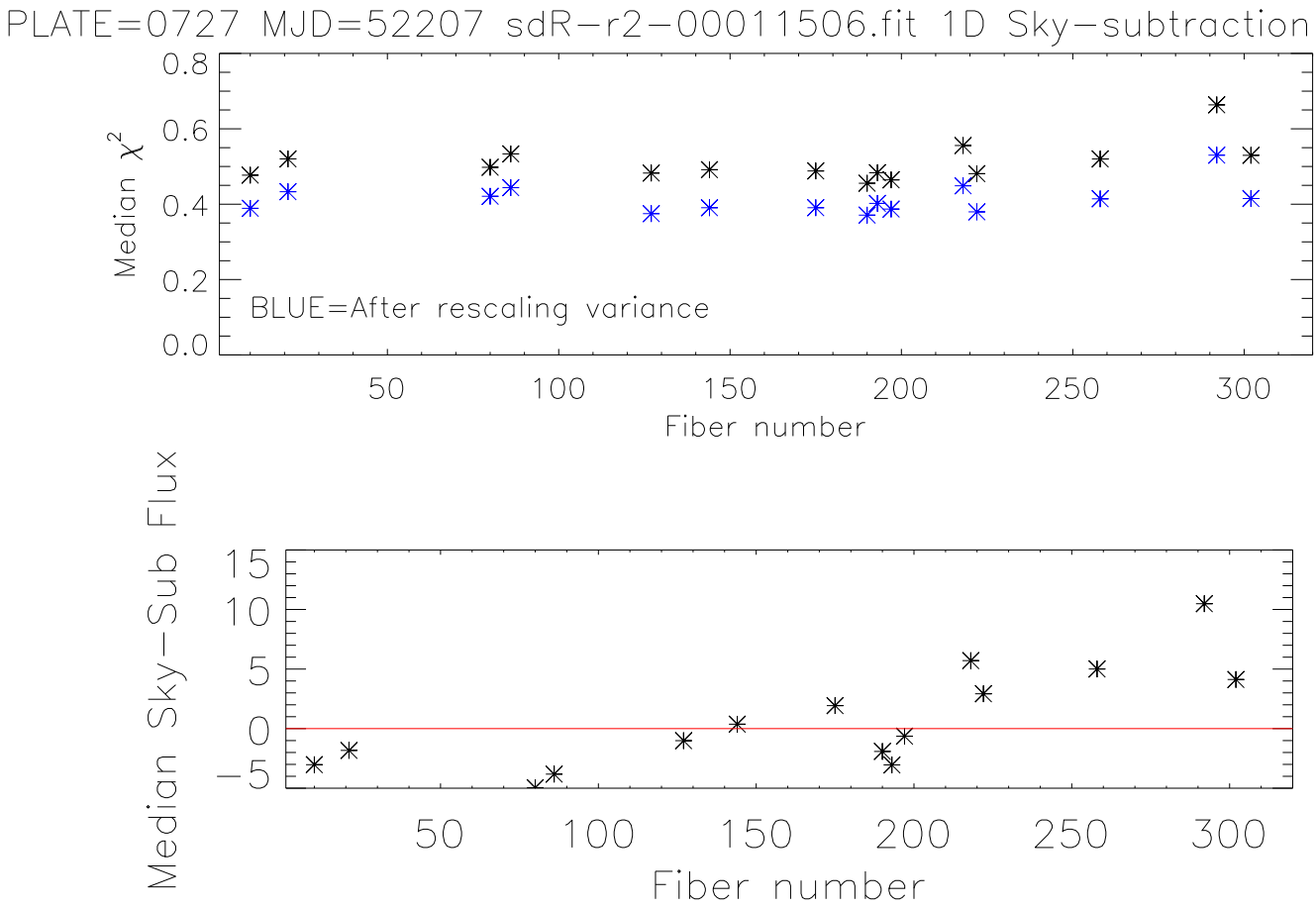

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

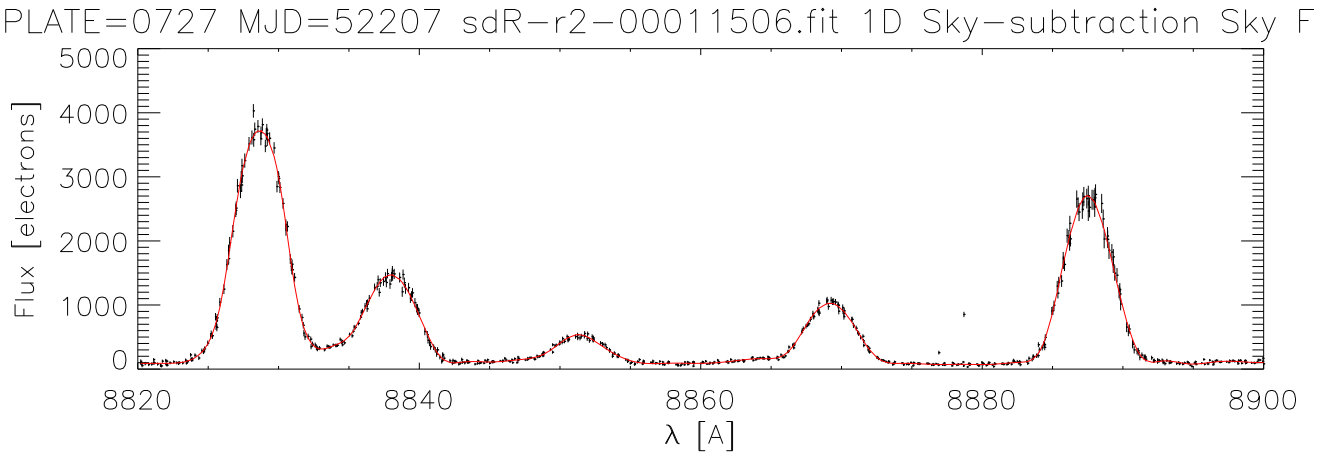

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib1 16
mfib2 16
stdev 0.25
extrd 0.28
stdev 0.27
extrd 0.24
stdev 0.36
extrd 0.29
stdev 0.29
extrd 0.24
stdev 0.28
extrd 0.20
stdev 0.33
extrd 0.21
stdev 0.34
extrd 0.32
stdev 0.25
extrd 0.28
stdev 0.50
extrd 0.22
stdev 0.22
extrd 0.22
stdev 0.37
extrd 0.48
stdev 0.24
extrd 0.20
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

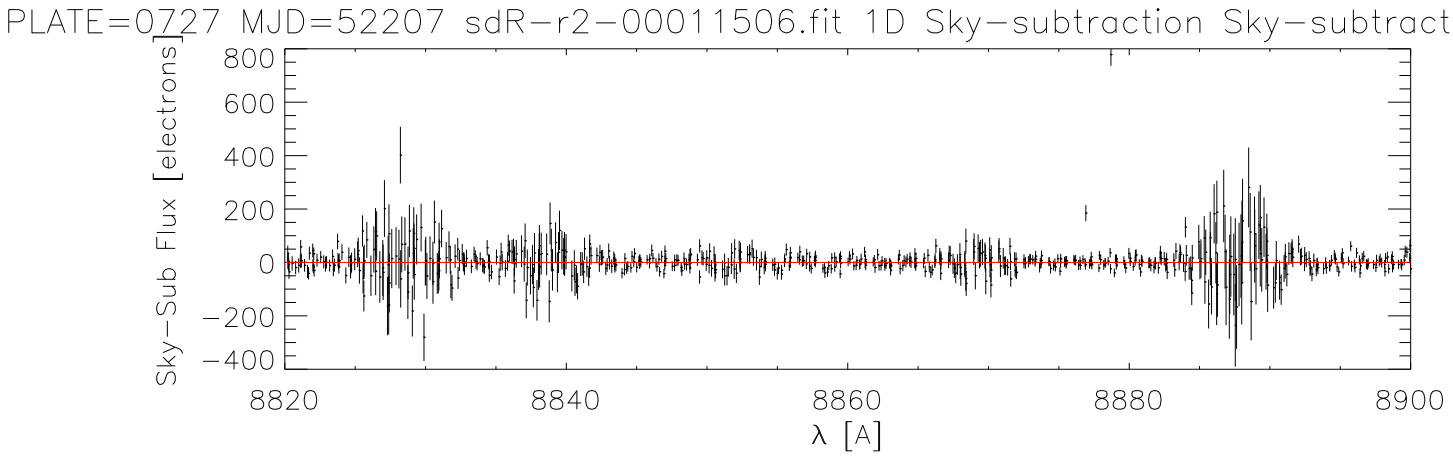

sky shift, pixels
−0.20
−0.25
−0.30
5000
6000
7000
8000
9000
10000

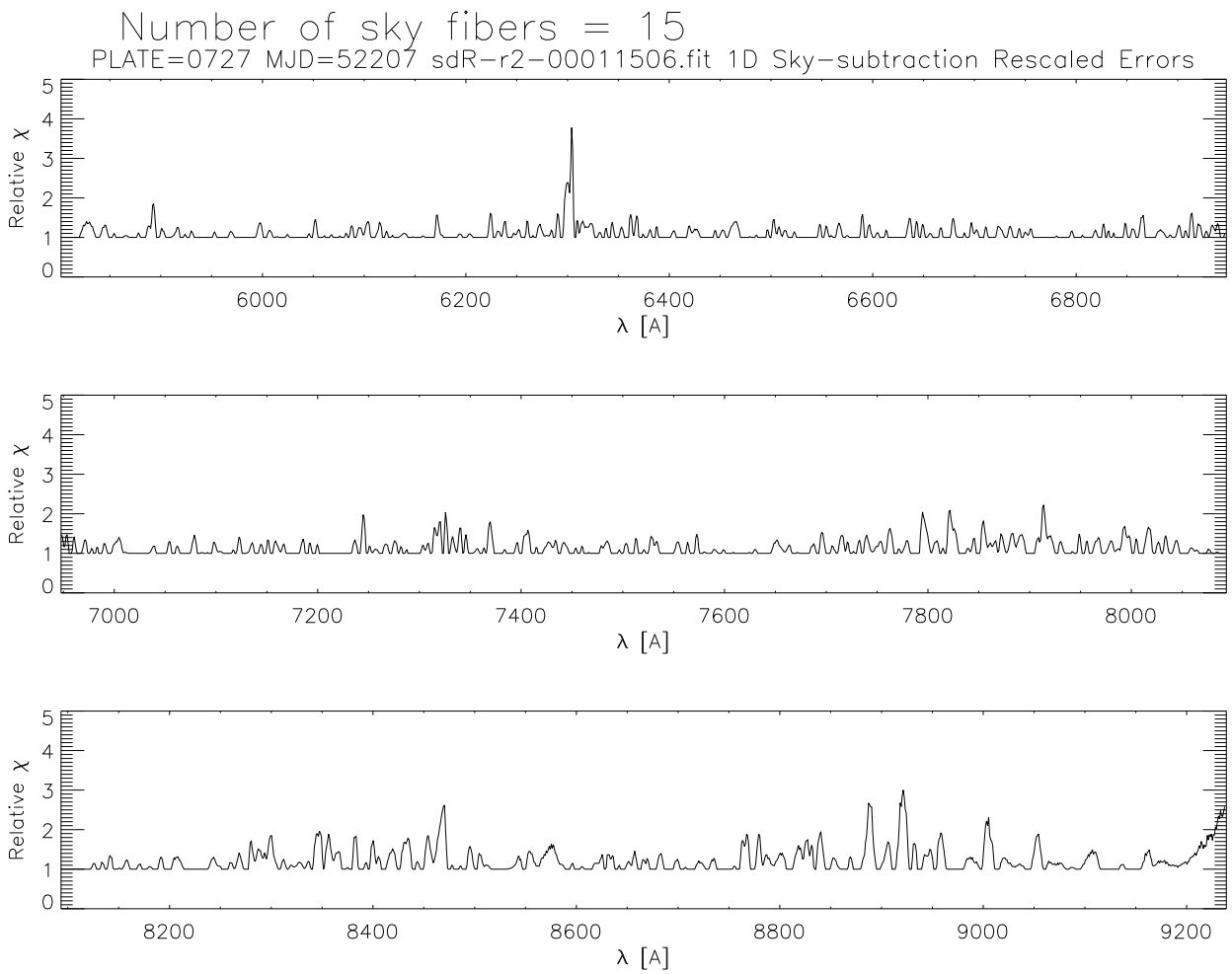

PLATE=0727 MJD=52207 Smooth superflat for sdR-r2-00011506.fit
2.0
1.5
1.0
0.5
0.0
es= −0.0000
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

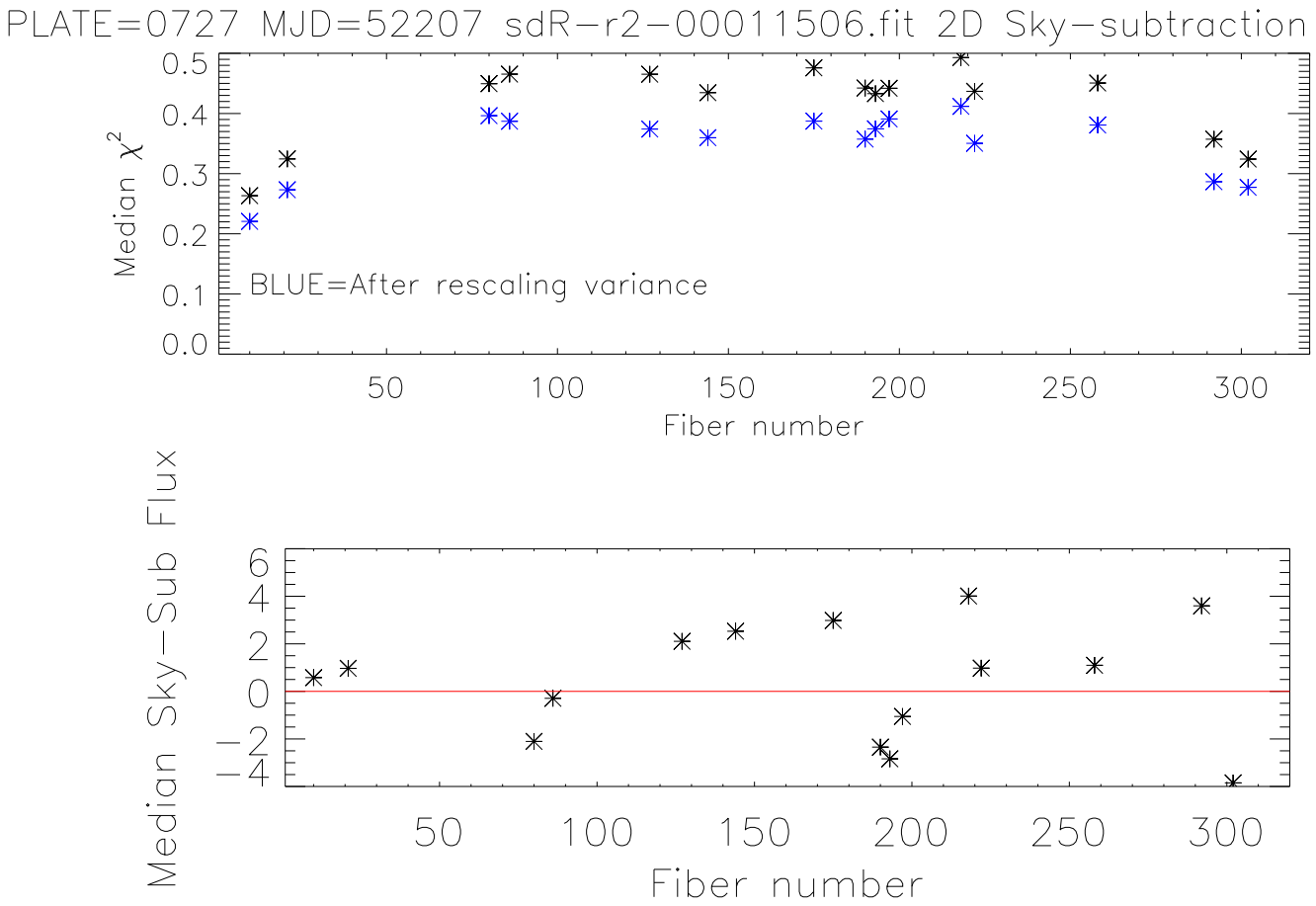

PLATE=0727 MJD=52207 sdR-r2-00011506.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

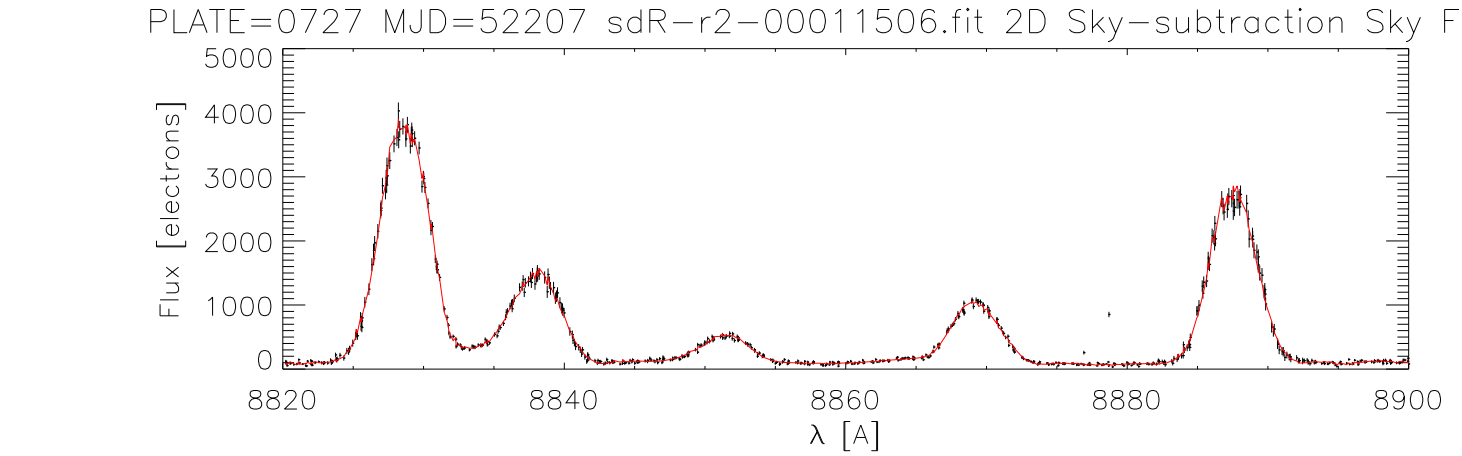
Median Sky-Sub Flux
15
10
5
0
-5
50
100
150
200
250
300
Fiber number

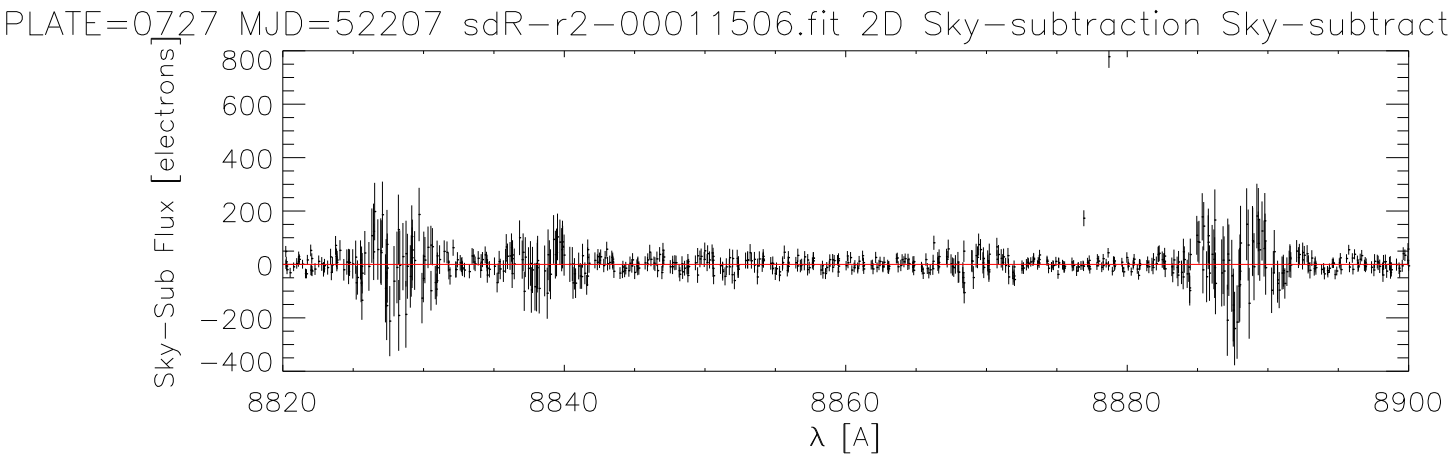

PLATE=0727 MJD=52207 sdR-r2-00011506.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

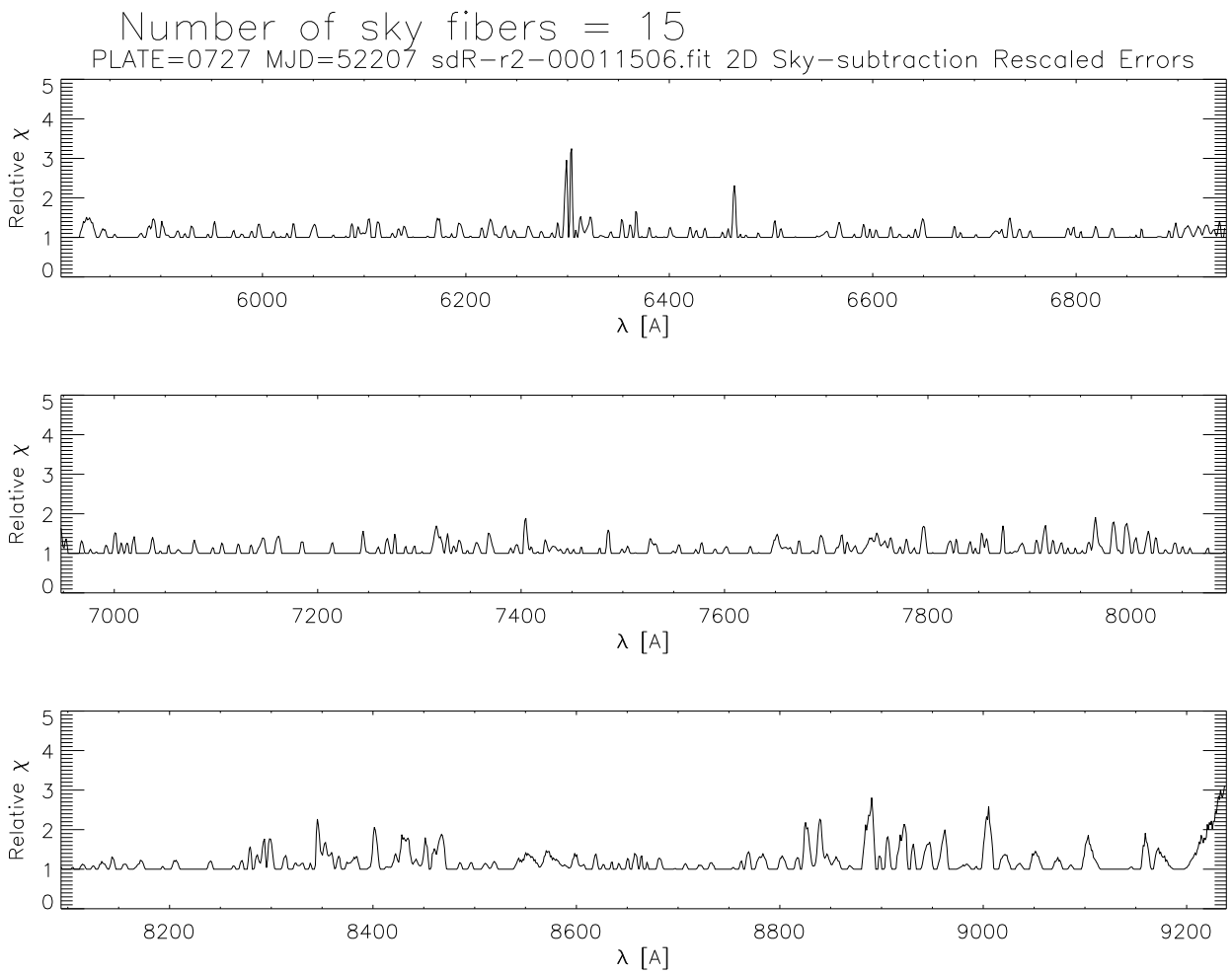

PLATE=0727 MJD=52207 sdR-r2-00011506.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

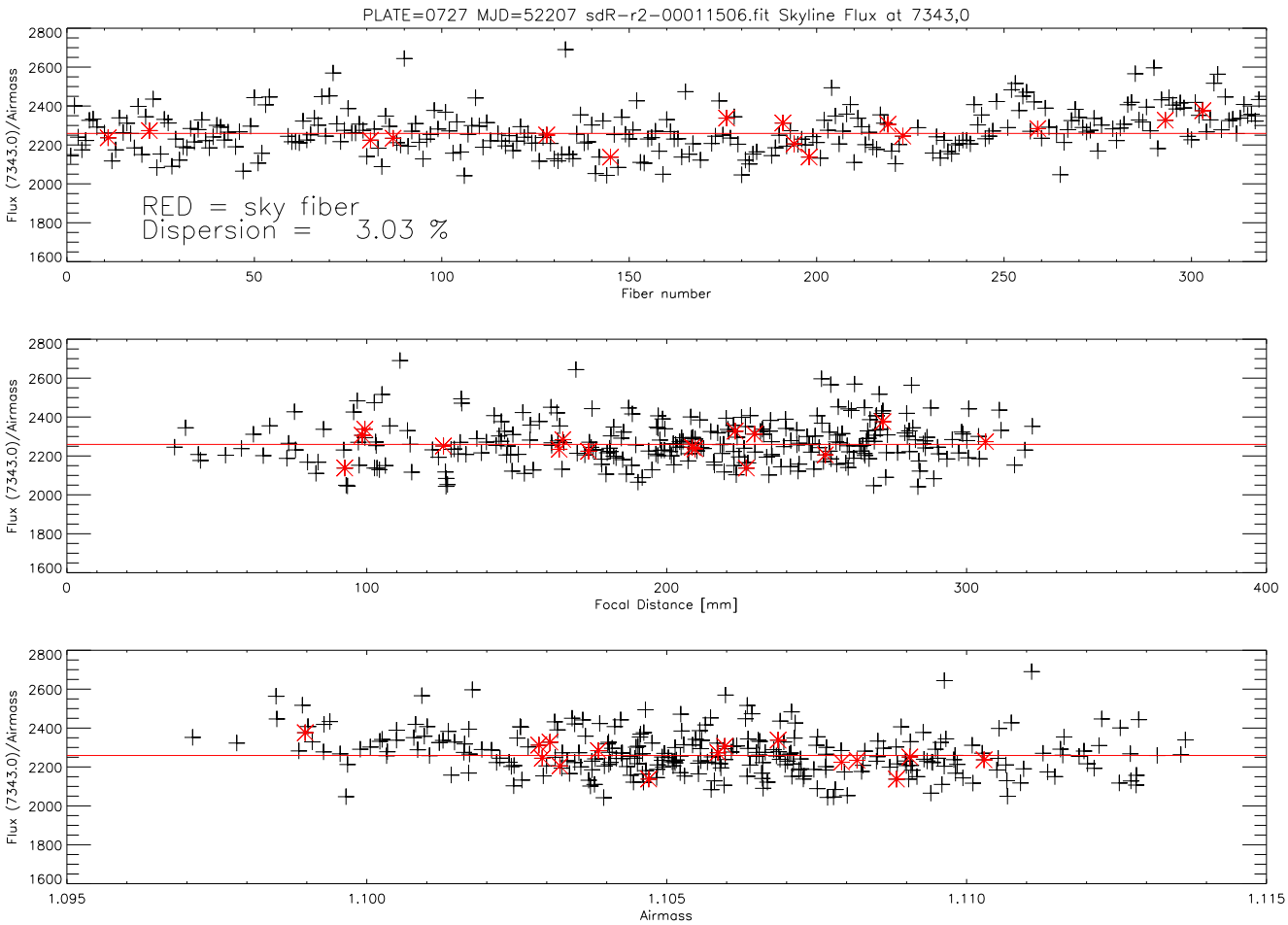

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-r2-00011506.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

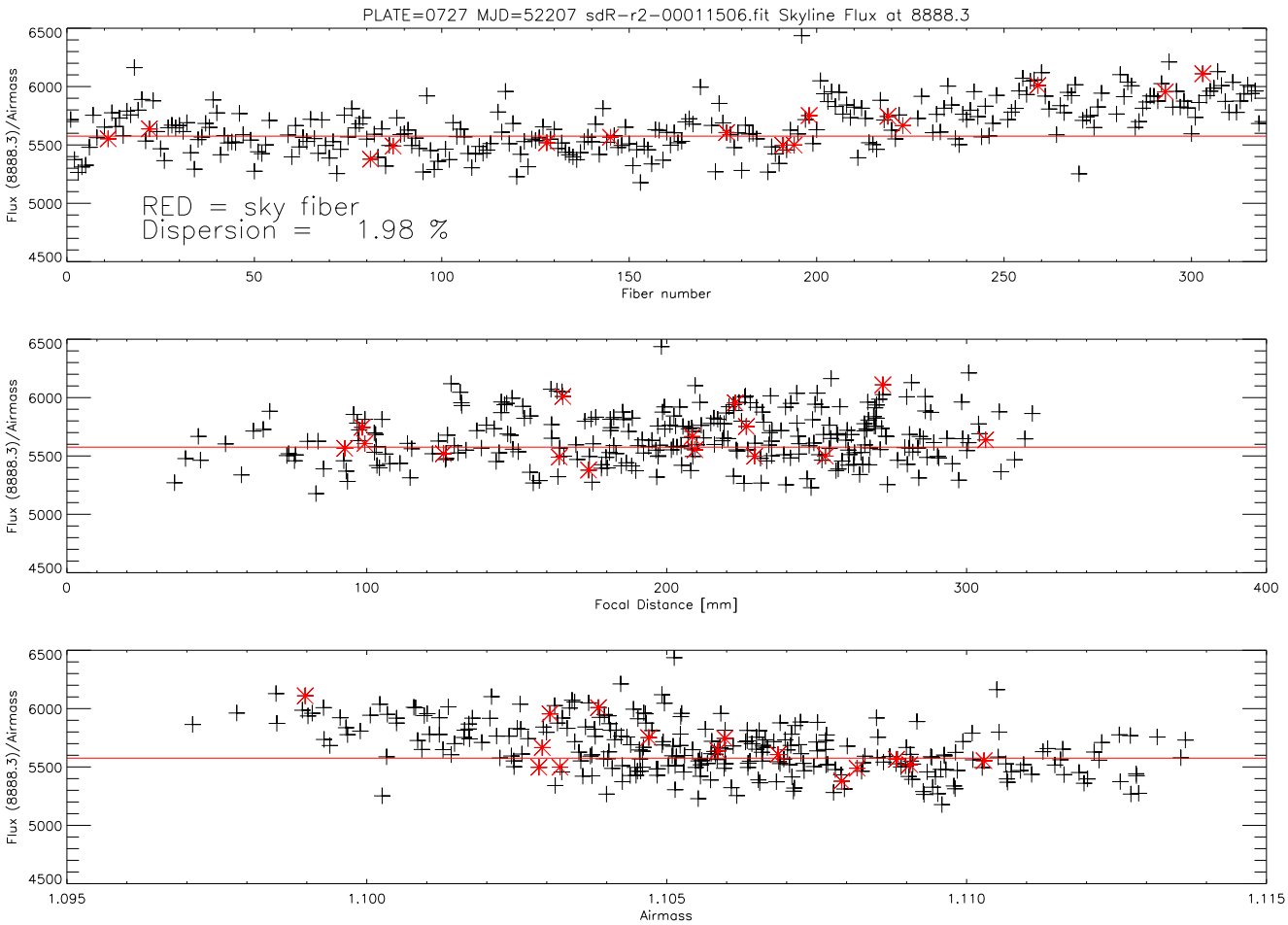

PLATE=0727 MJD=52207 sdR-r2-00011506.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

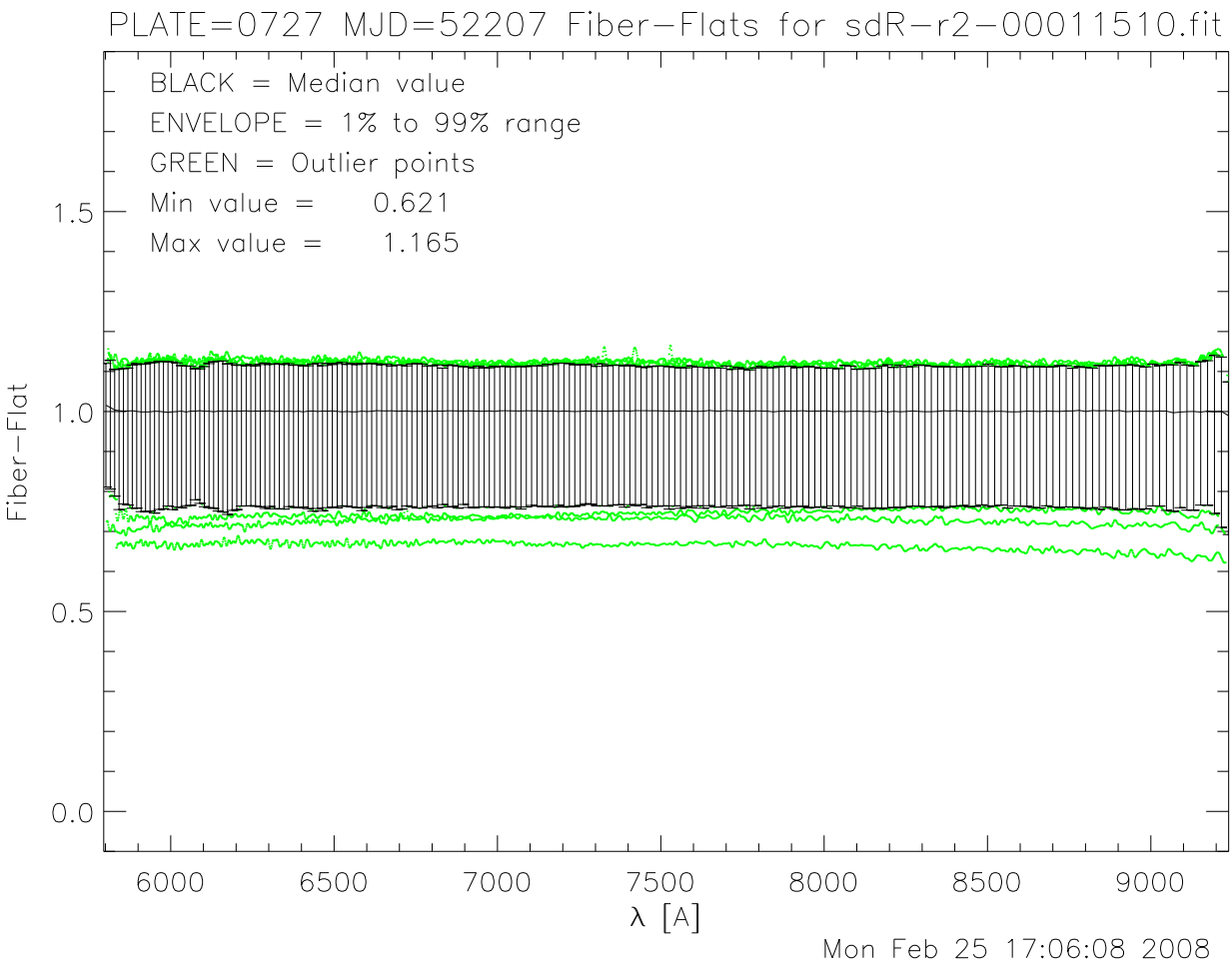

PLATE=0727 MJD=52207 sdR-r2-00011506.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

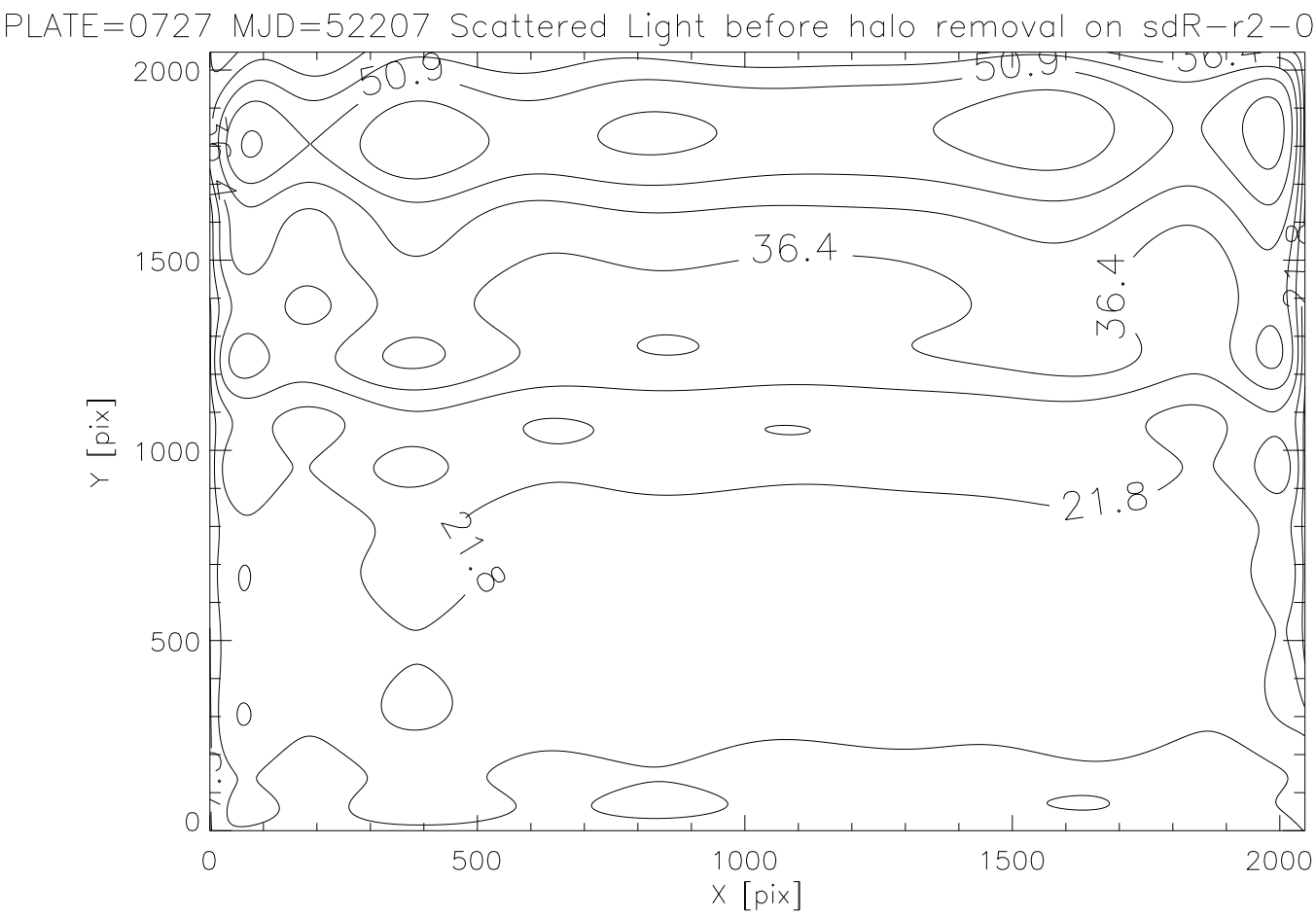

PLATE=0727 MJD=52207 sdR-r2-00011506.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

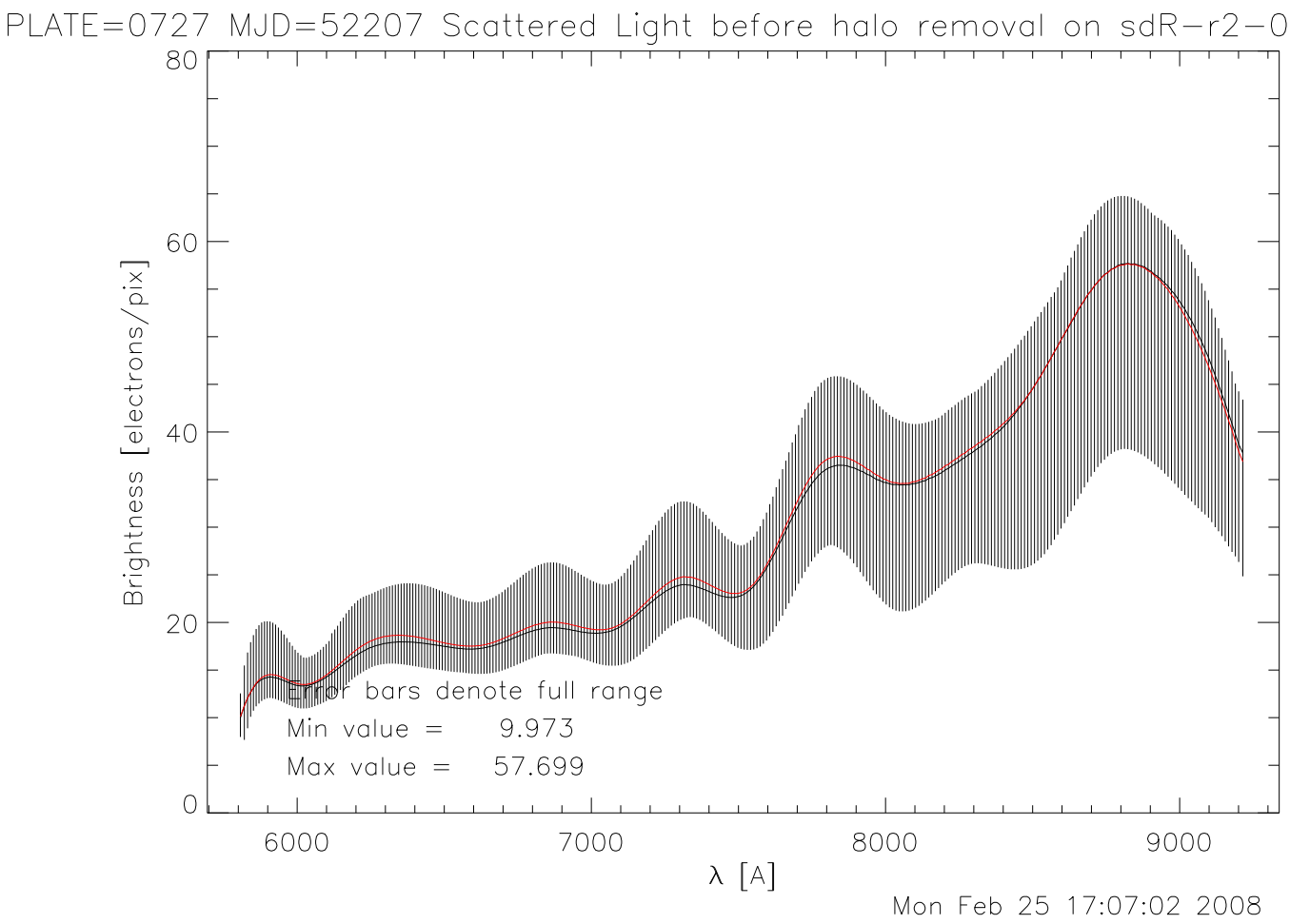

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-r2-00011506.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

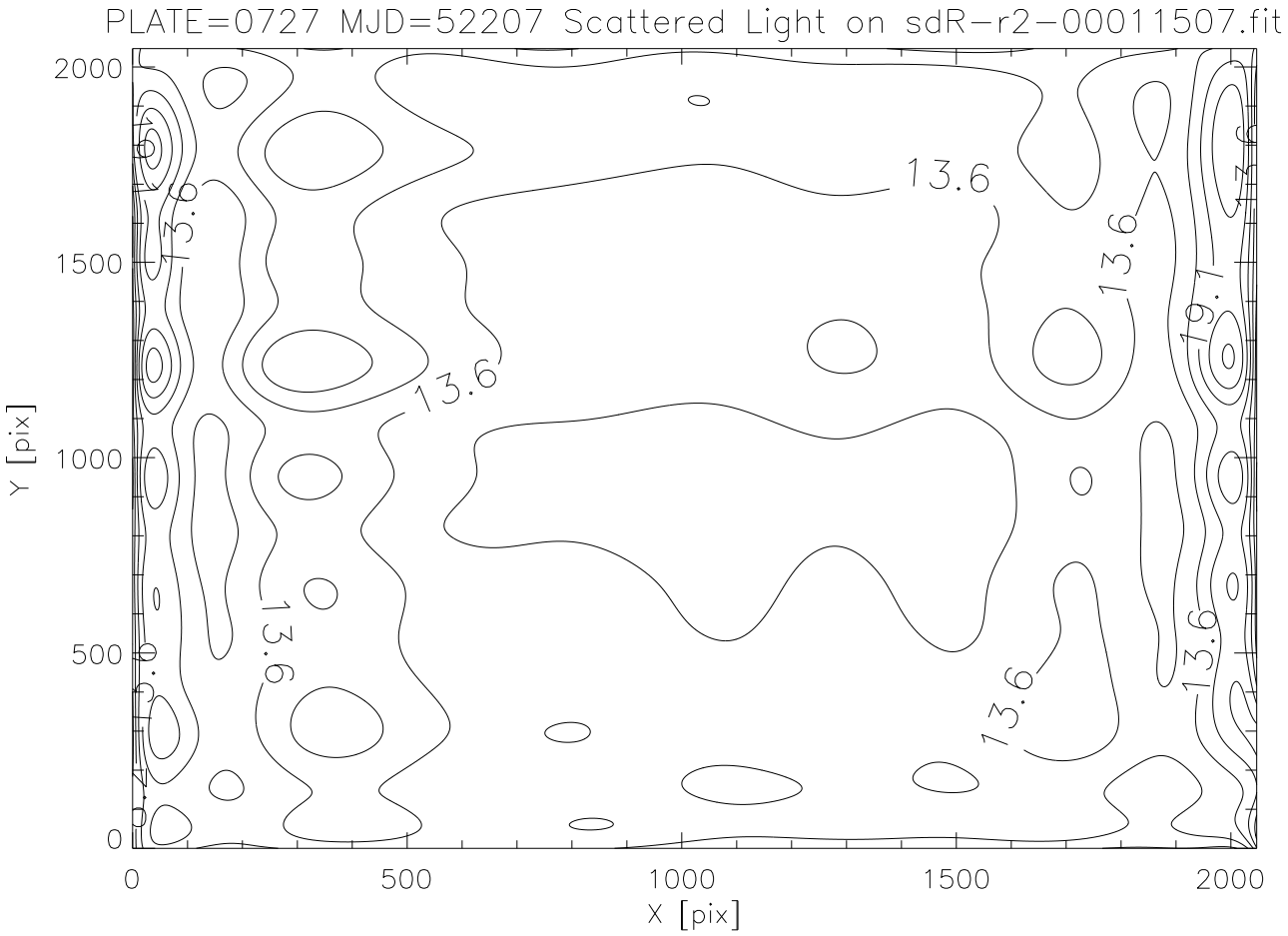

PLATE=0727 MJD=52207 sdR-r2-00011506.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.03 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

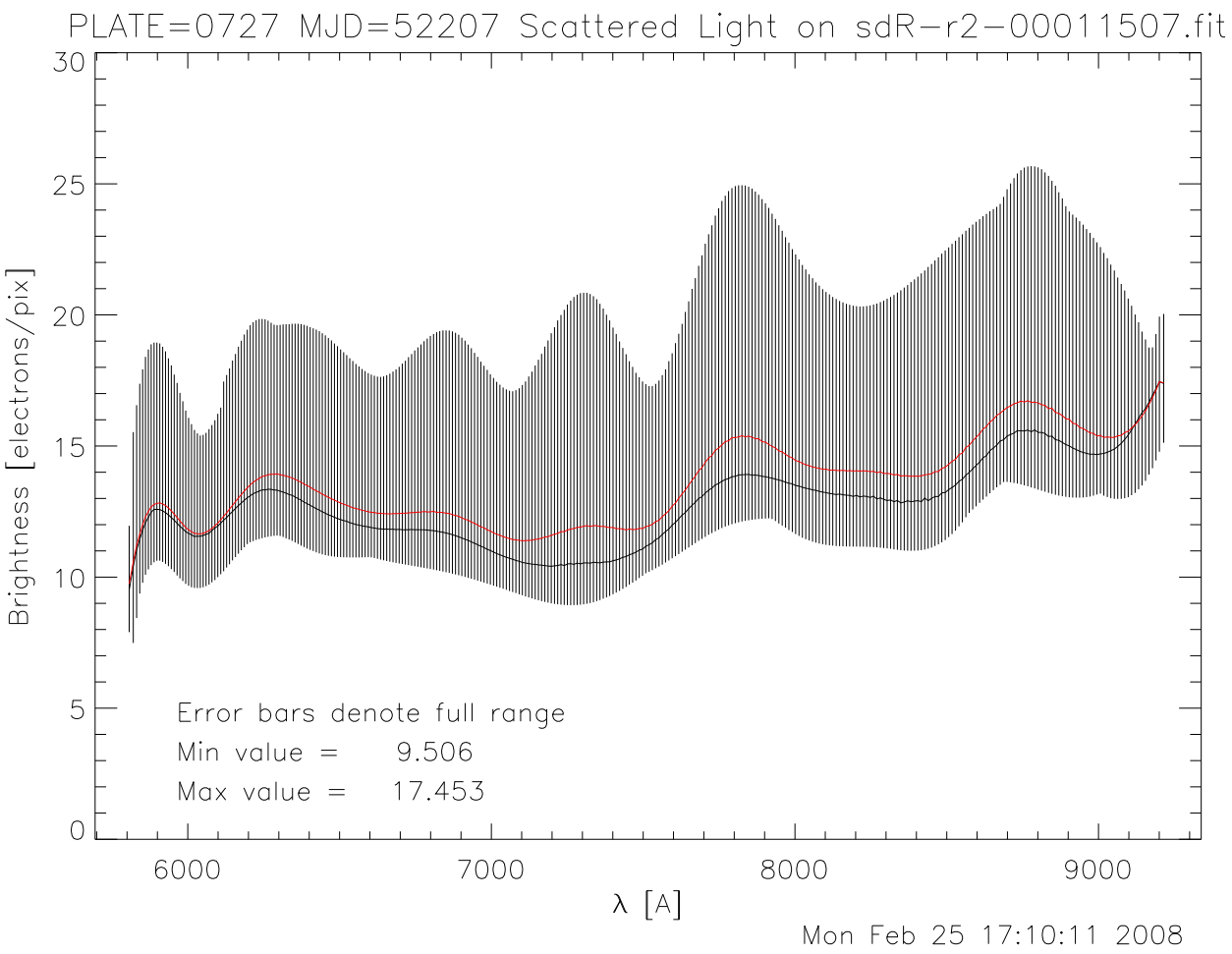

PLATE=0727 MJD=52207 sdR-r2-00011506.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.98 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

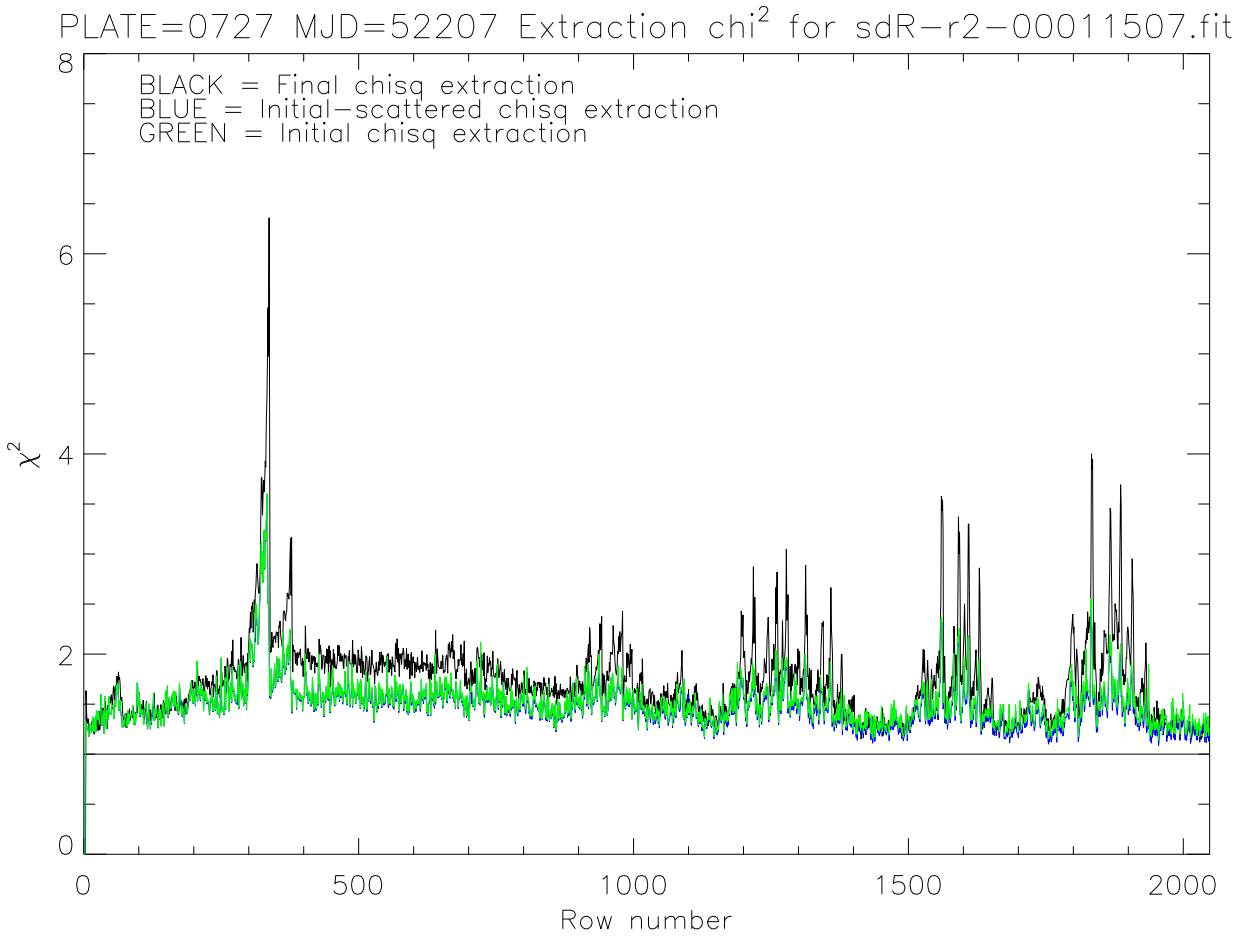

PLATE=0727 MJD=52207 Fiber−Flats for sdR−r2−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.621
Max value = 1.165
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 17:06:08 2008

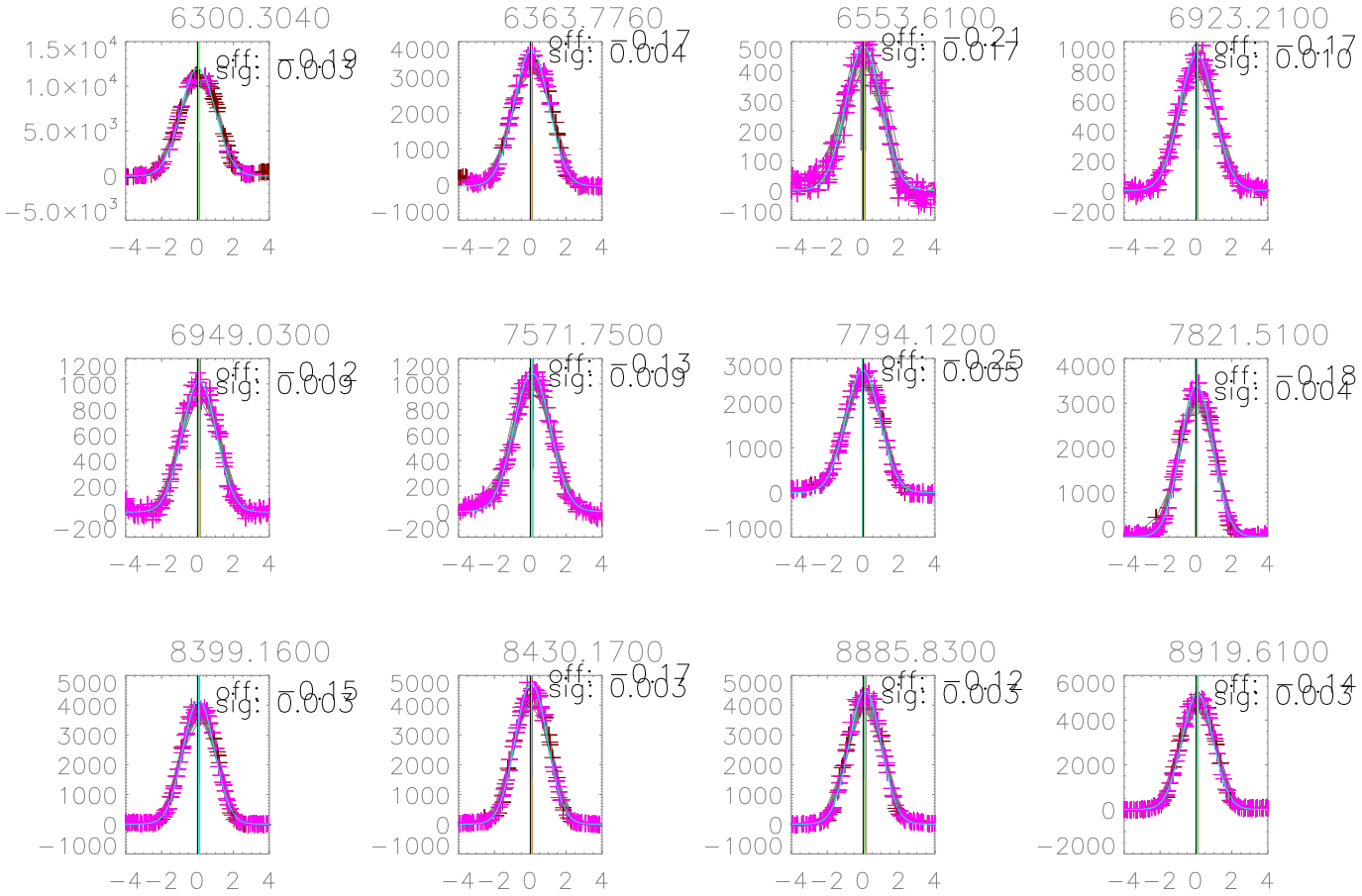

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r2-00011507.fi
50.9
50.9
36.4
36.4
21.8
12.
8.
0
0
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

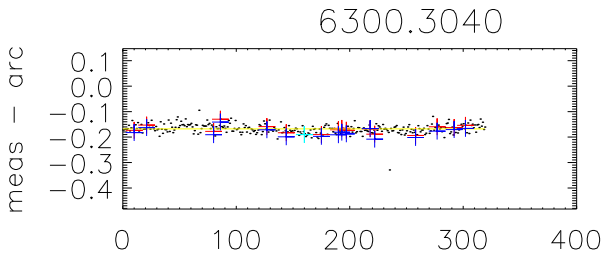

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r2-00011507.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 9.973
Max value = 57.699
Mon Feb 25 17:07:02 2008

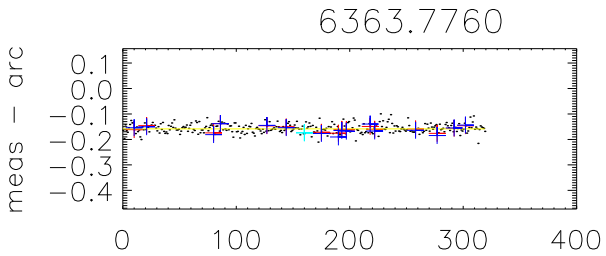

PLATE=0727 MJD=52207 Scattered Light on sdR-r2-00011507.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
13.6
19.1

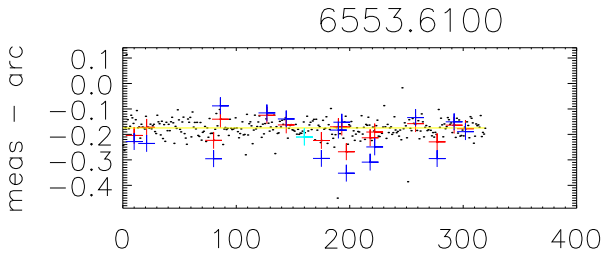

PLATE=0727 MJD=52207 Scattered Light on sdR-r2-00011507.fit
Brightness [electrons/pix]
30
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 9.506
Max value = 17.453
Mon Feb 25 17:10:11 2008

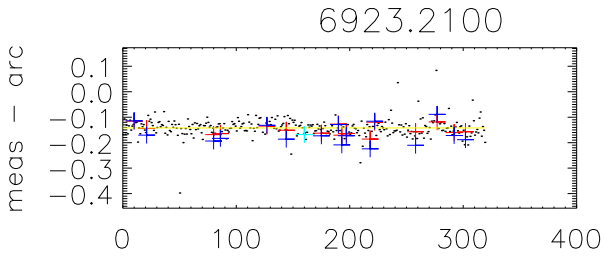

PLATE=0727 MJD=52207 Extraction chi^2 for sdR−r2−00011507.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

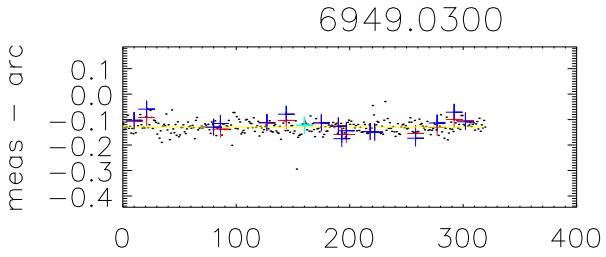

6300.3040
off: −0.19
sig: 0.003
6363.7760
off: −0.17
sig: 0.004
6553.6100
off: −0.21
sig: 0.017
6923.2100
off: −0.17
sig: 0.010
6949.0300
off: −0.12
sig: 0.009
7571.7500
off: −0.13
sig: 0.009
7794.1200
off: −0.25
sig: 0.005
7821.5100
off: −0.18
sig: 0.004
8399.1600
off: −0.15
sig: 0.003
8430.1700
off: −0.17
sig: 0.003
8885.8300
off: −0.12
sig: 0.003
8919.6100
off: −0.14
sig: 0.003

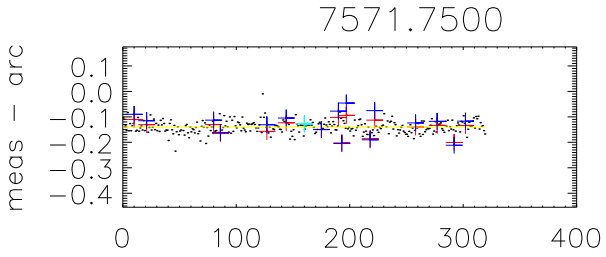

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

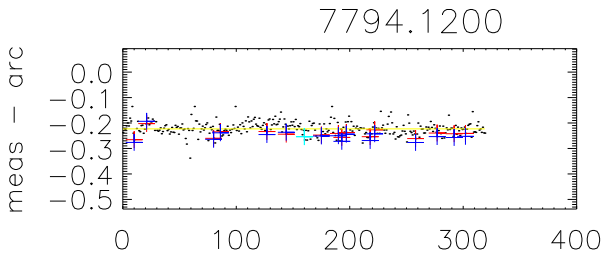

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

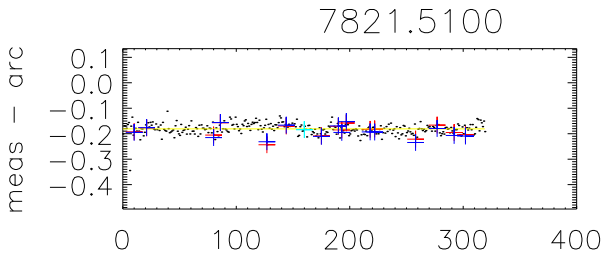

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

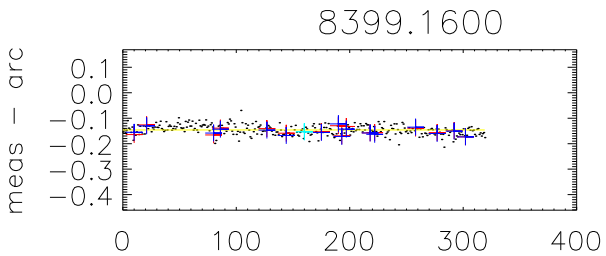

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

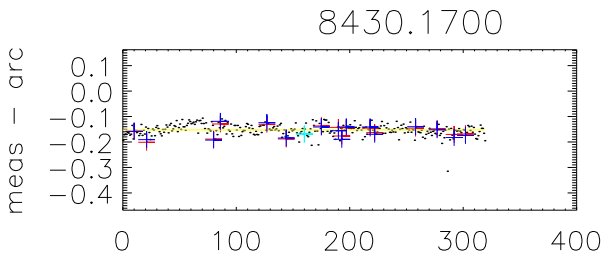

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

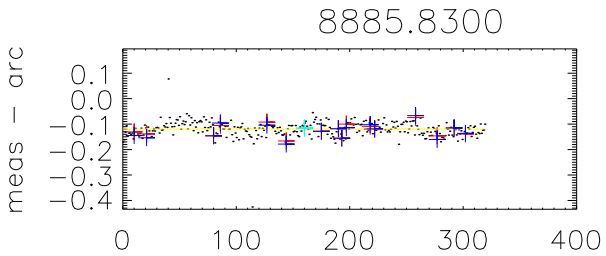

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

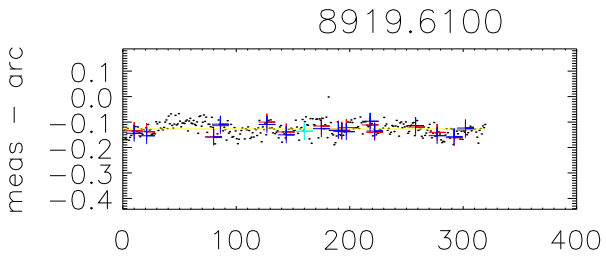

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

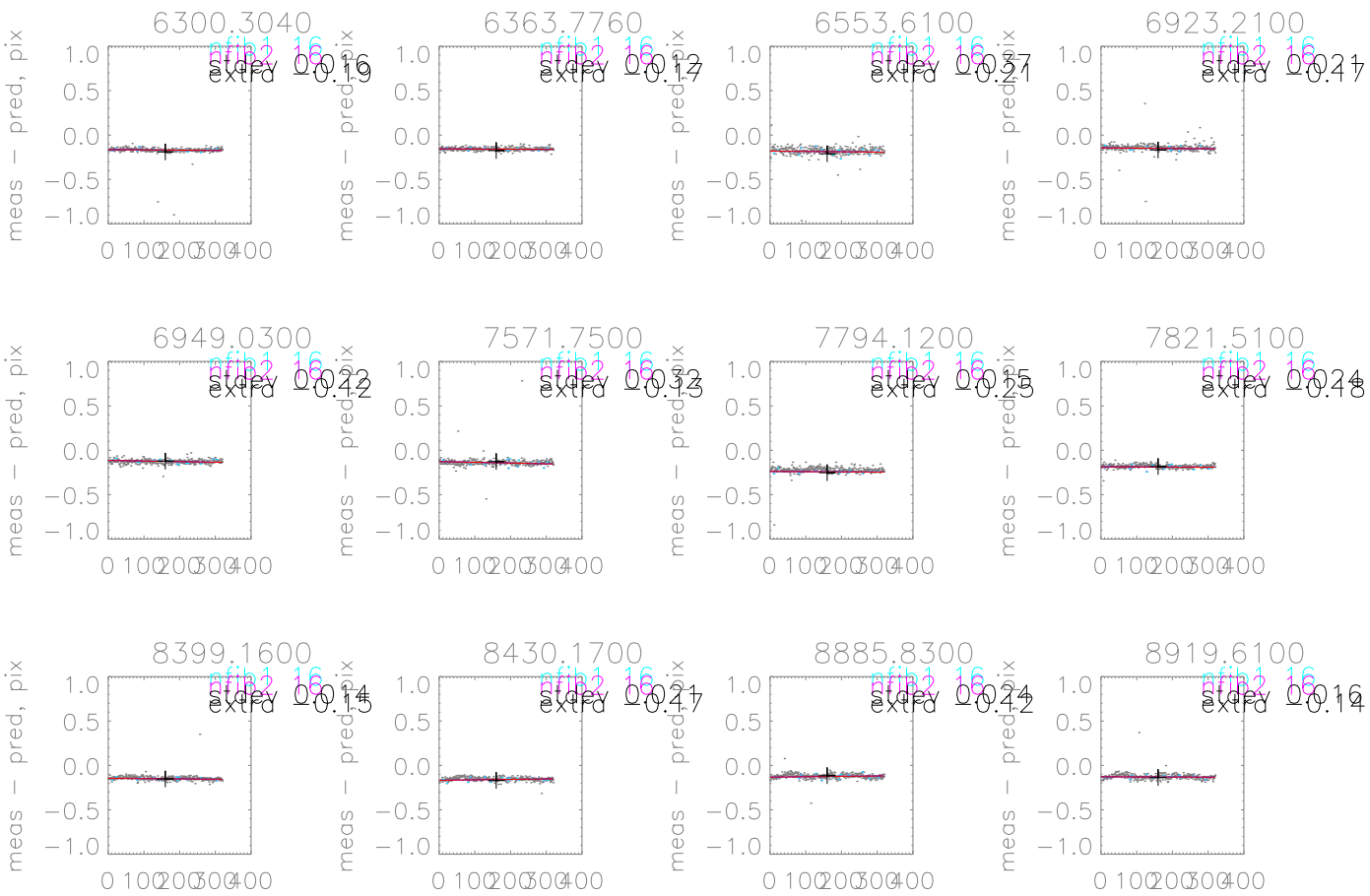

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

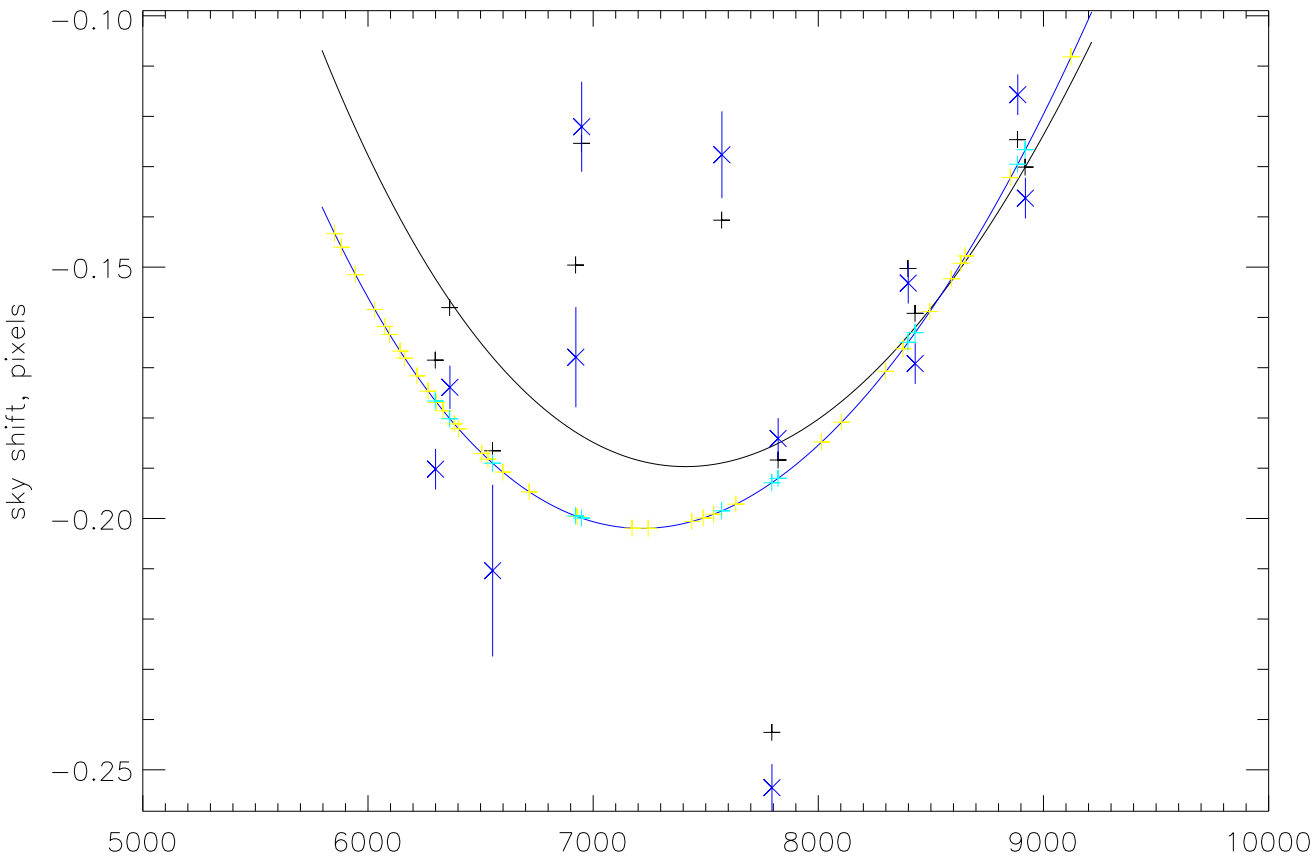

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

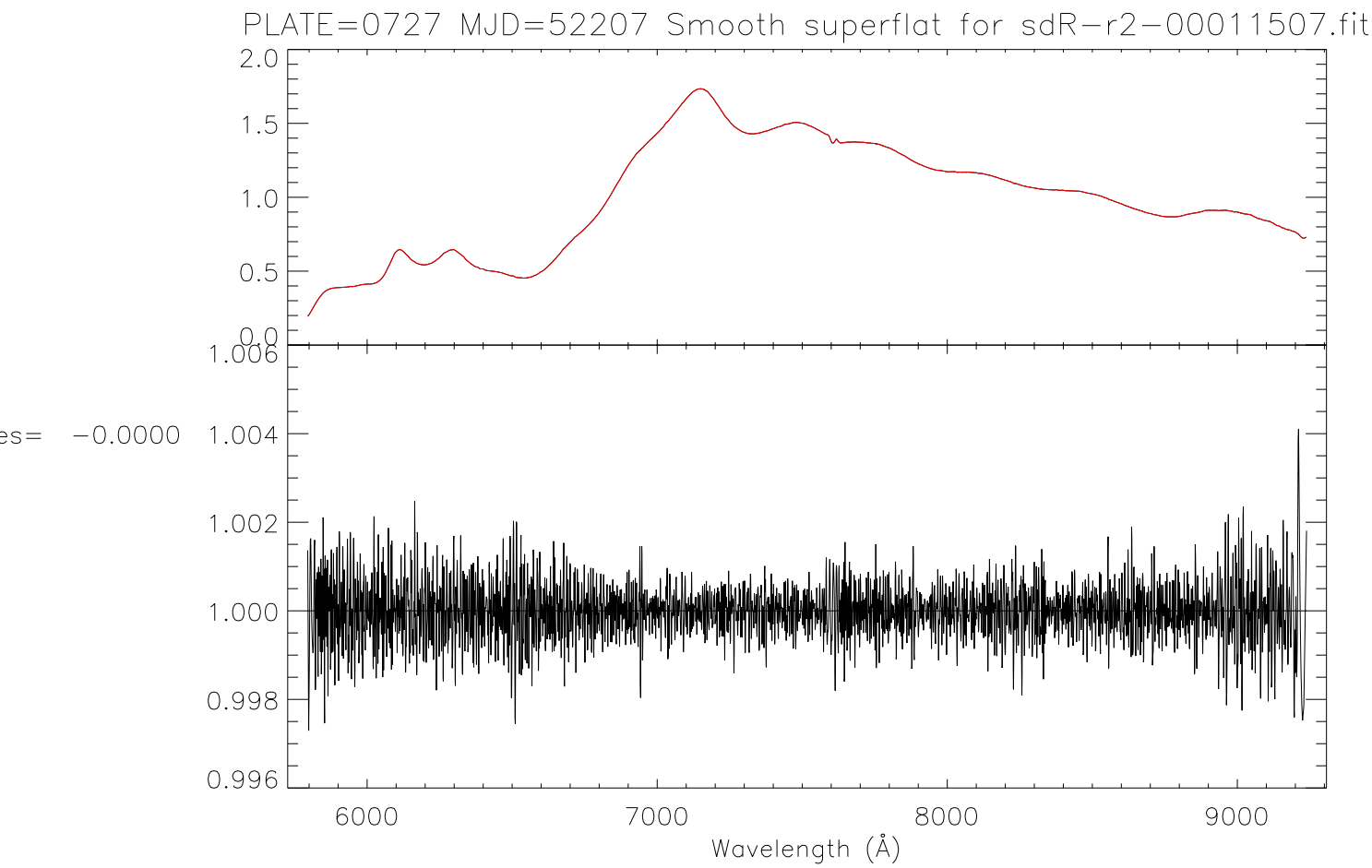

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

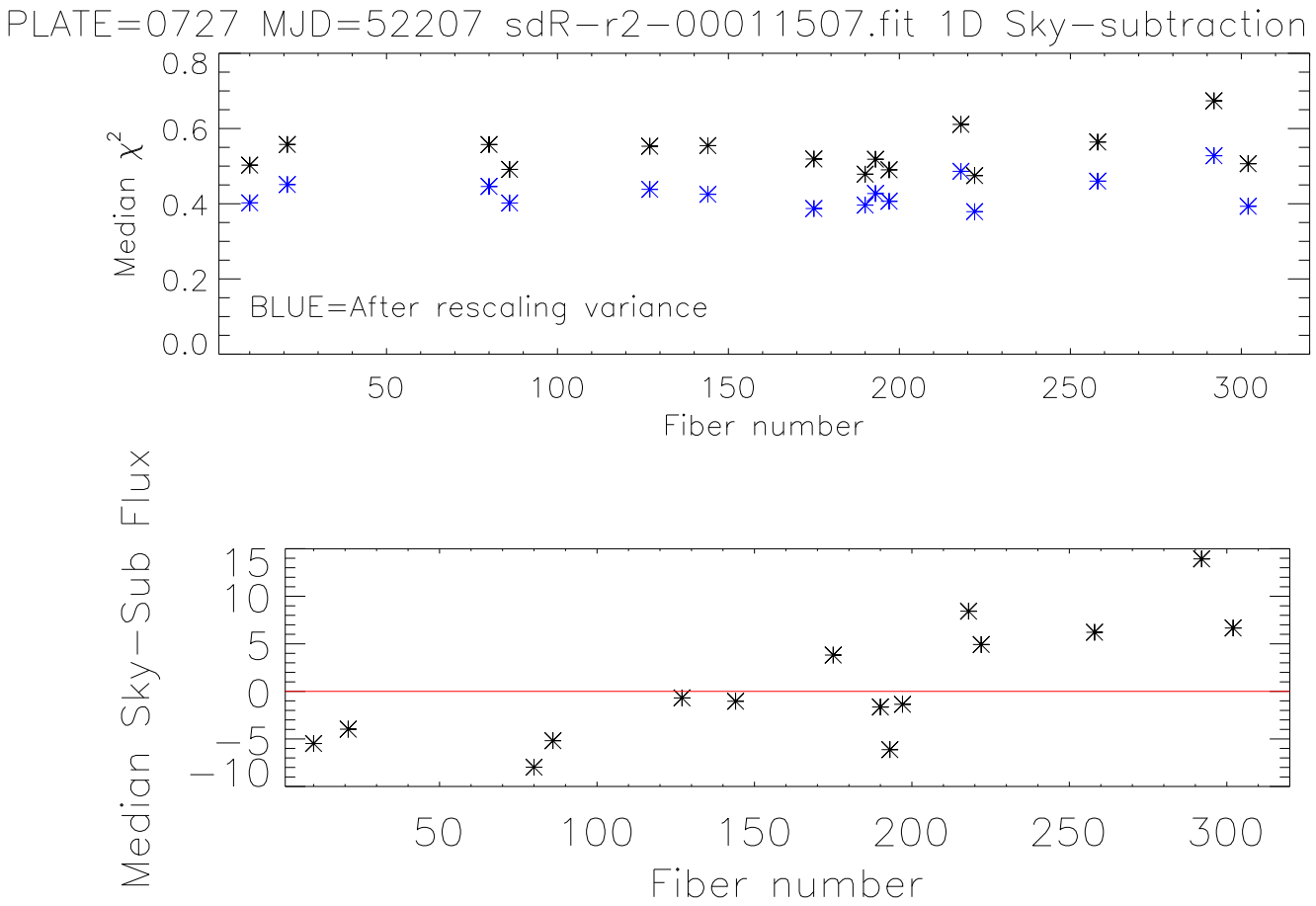

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

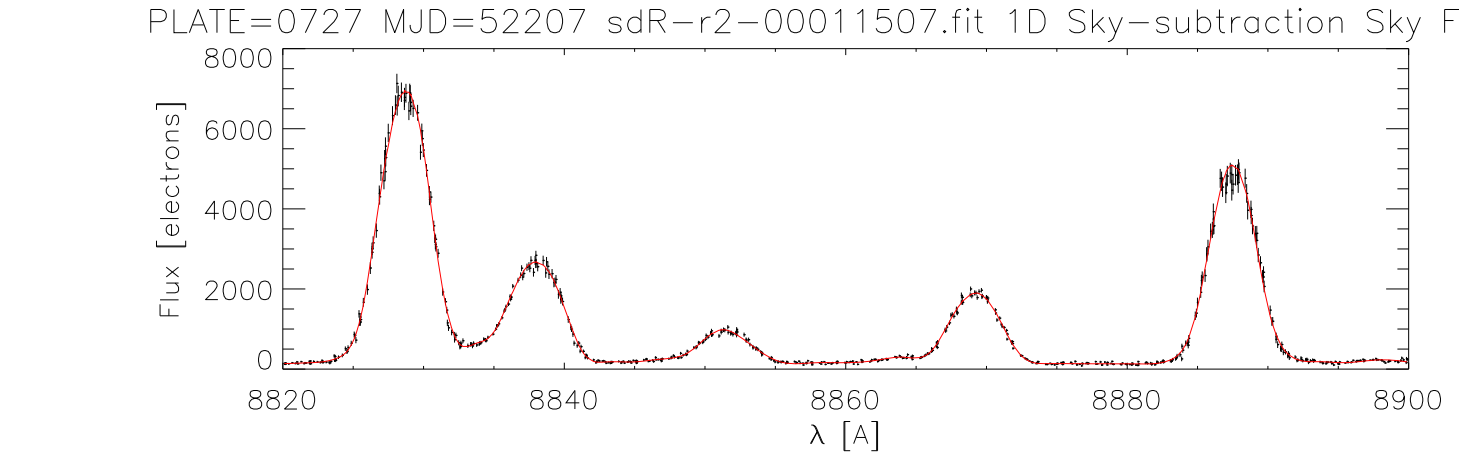

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

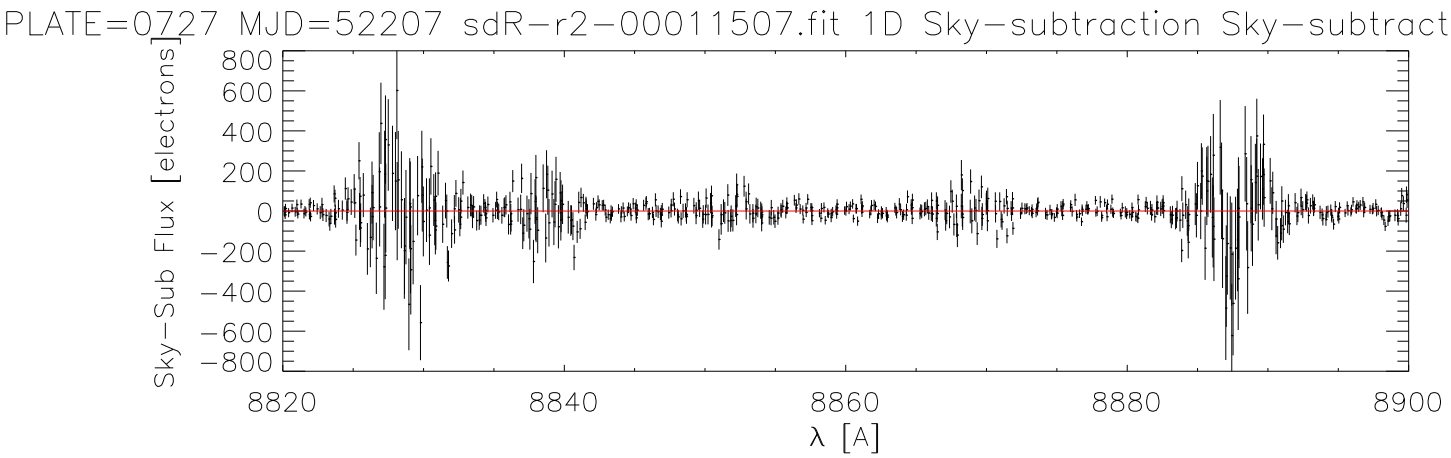

6300.3040
stdev 0.16
extra 0.19
6363.7760
stdev 0.12
extra 0.17
6553.6100
stdev 0.21
extra 0.37
6923.2100
stdev 0.21
extra 0.47
6949.0300
stdev 0.22
extra 0.42
7571.7500
stdev 0.32
extra 0.43
7794.1200
stdev 0.25
extra 0.45
7821.5100
stdev 0.24
extra 0.48
8399.1600
stdev 0.14
extra 0.15
8430.1700
stdev 0.21
extra 0.47
8885.8300
stdev 0.24
extra 0.42
8919.6100
stdev 0.16
extra 0.14
meas − pred, pix

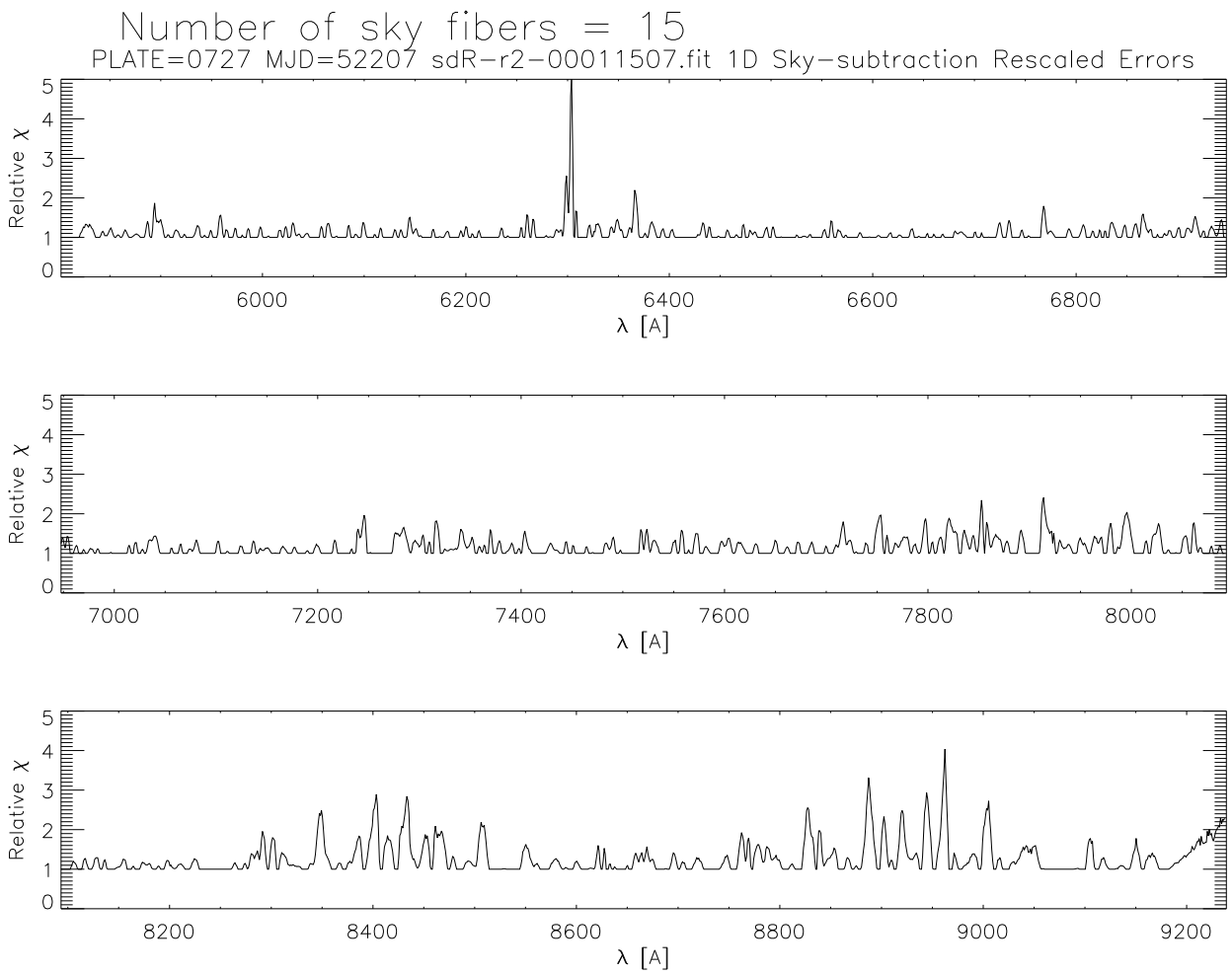

−0.10
−0.15
−0.20
−0.25
sky shift, pixels
5000
6000
7000
8000
9000
10000

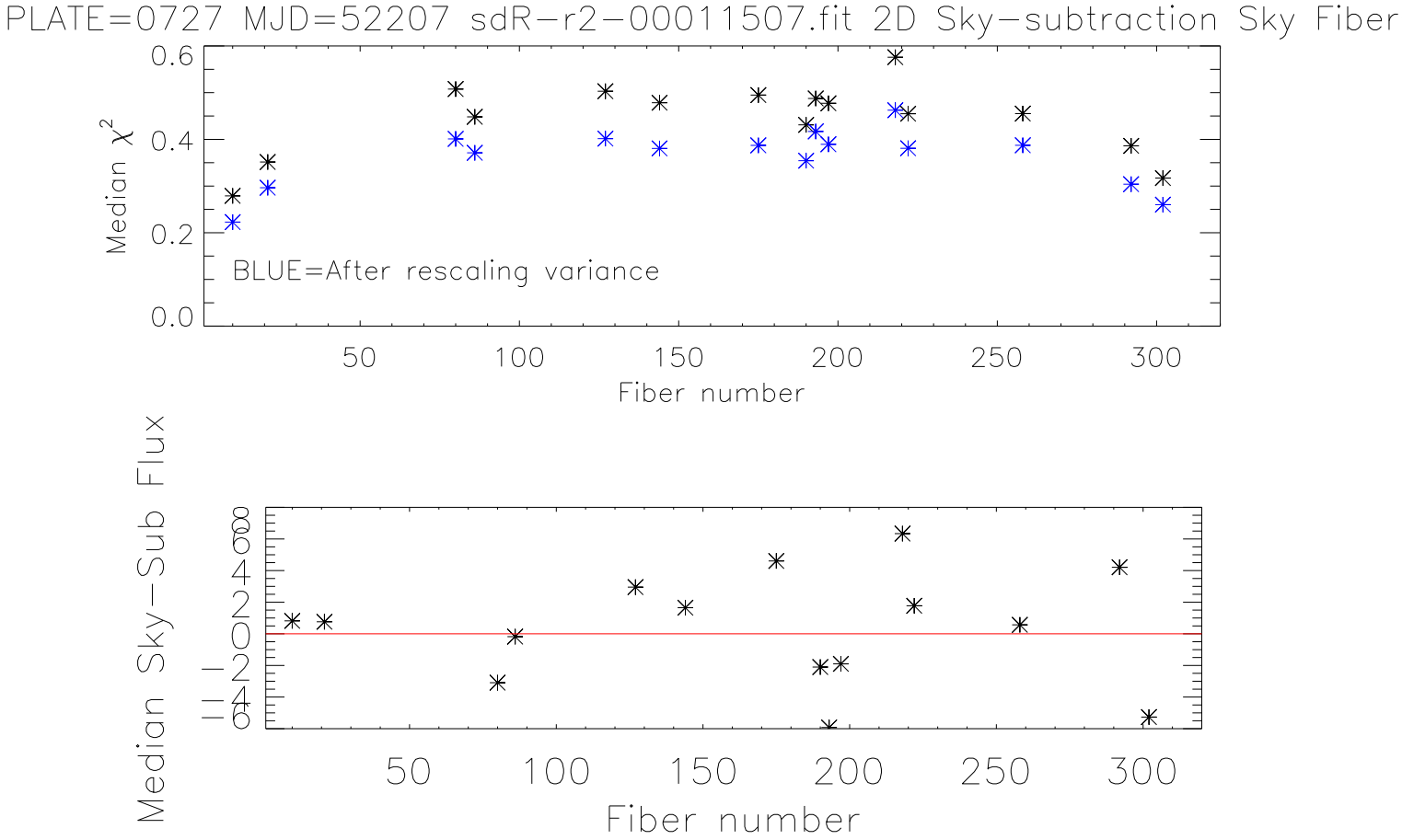

PLATE=0727 MJD=52207 Smooth superflat for sdR-r2-00011507.fit
2.0
1.5
1.0
0.5
0.0
es= −0.0000
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

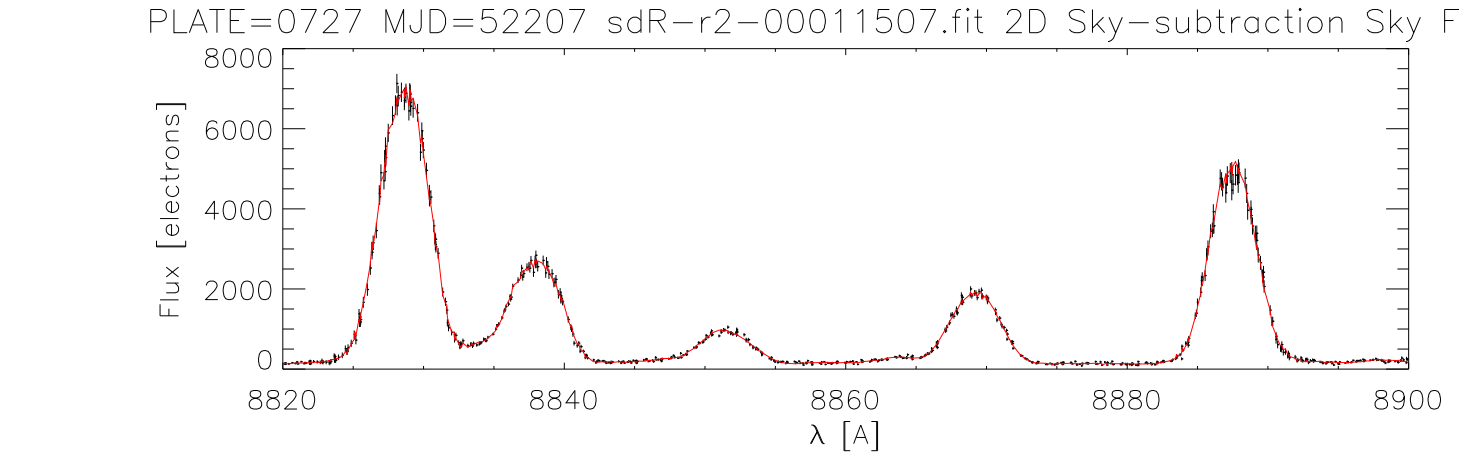

PLATE=0727 MJD=52207 sdR-r2-00011507.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

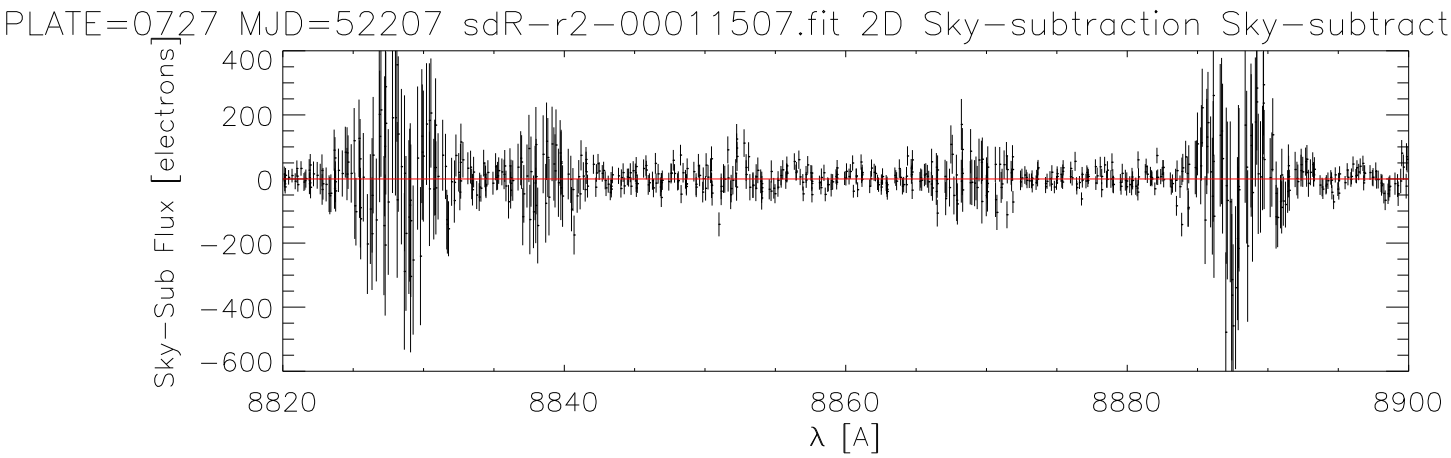

PLATE=0727 MJD=52207 sdR-r2-00011507.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

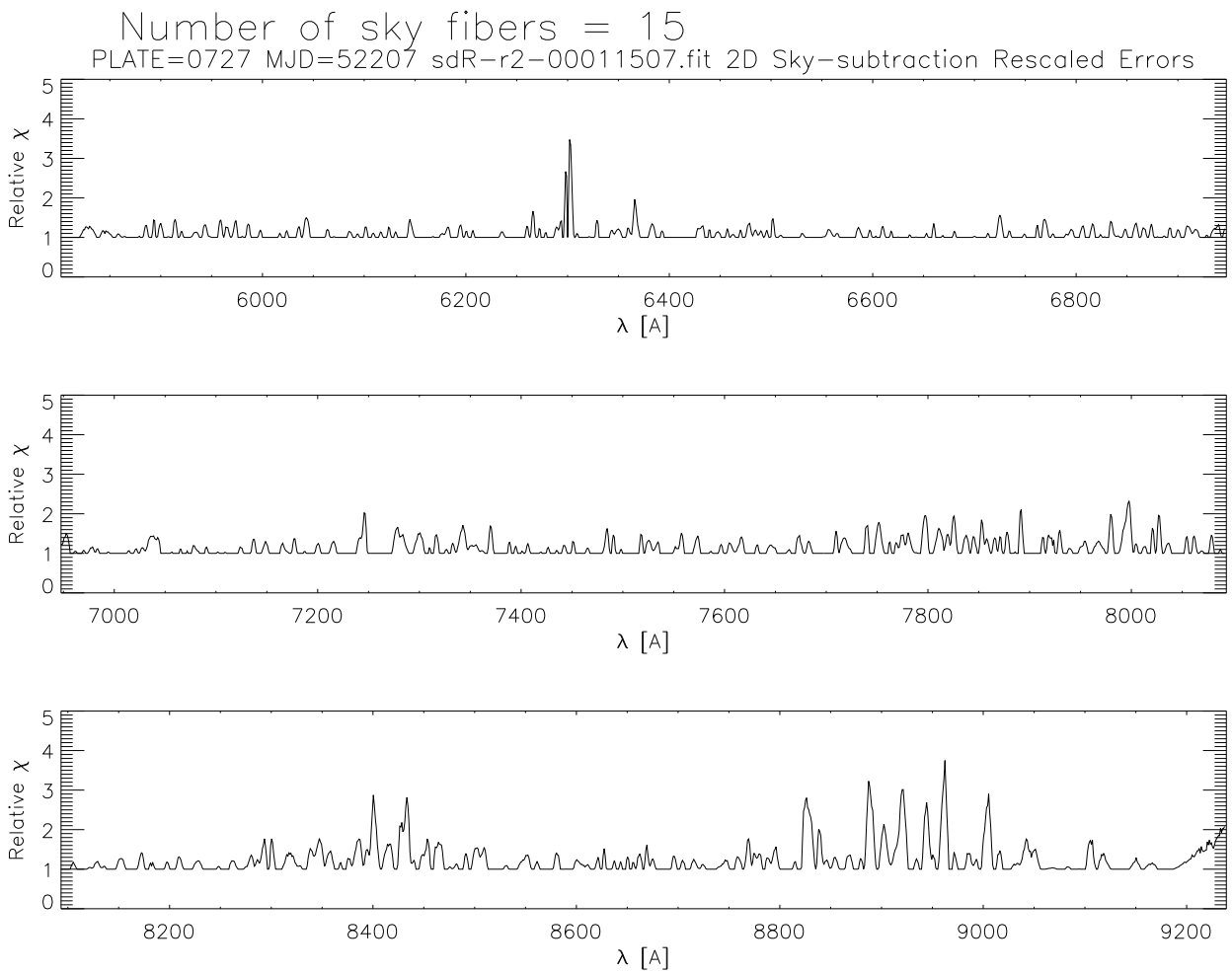

PLATE=0727 MJD=52207 sdR-r2-00011507.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
-800
8820
8840
8860
8880
8900
λ [A]

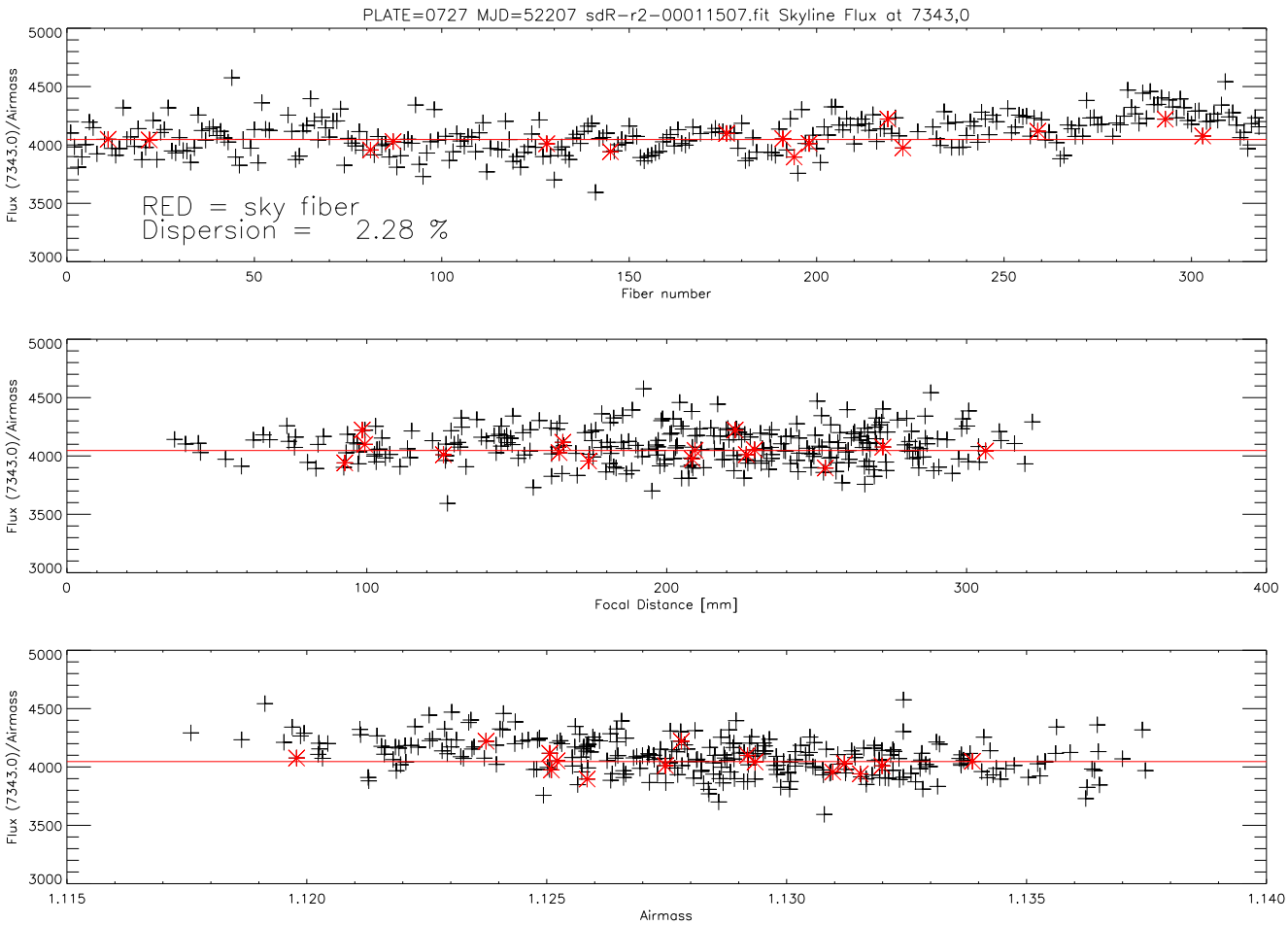

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-r2-00011507.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

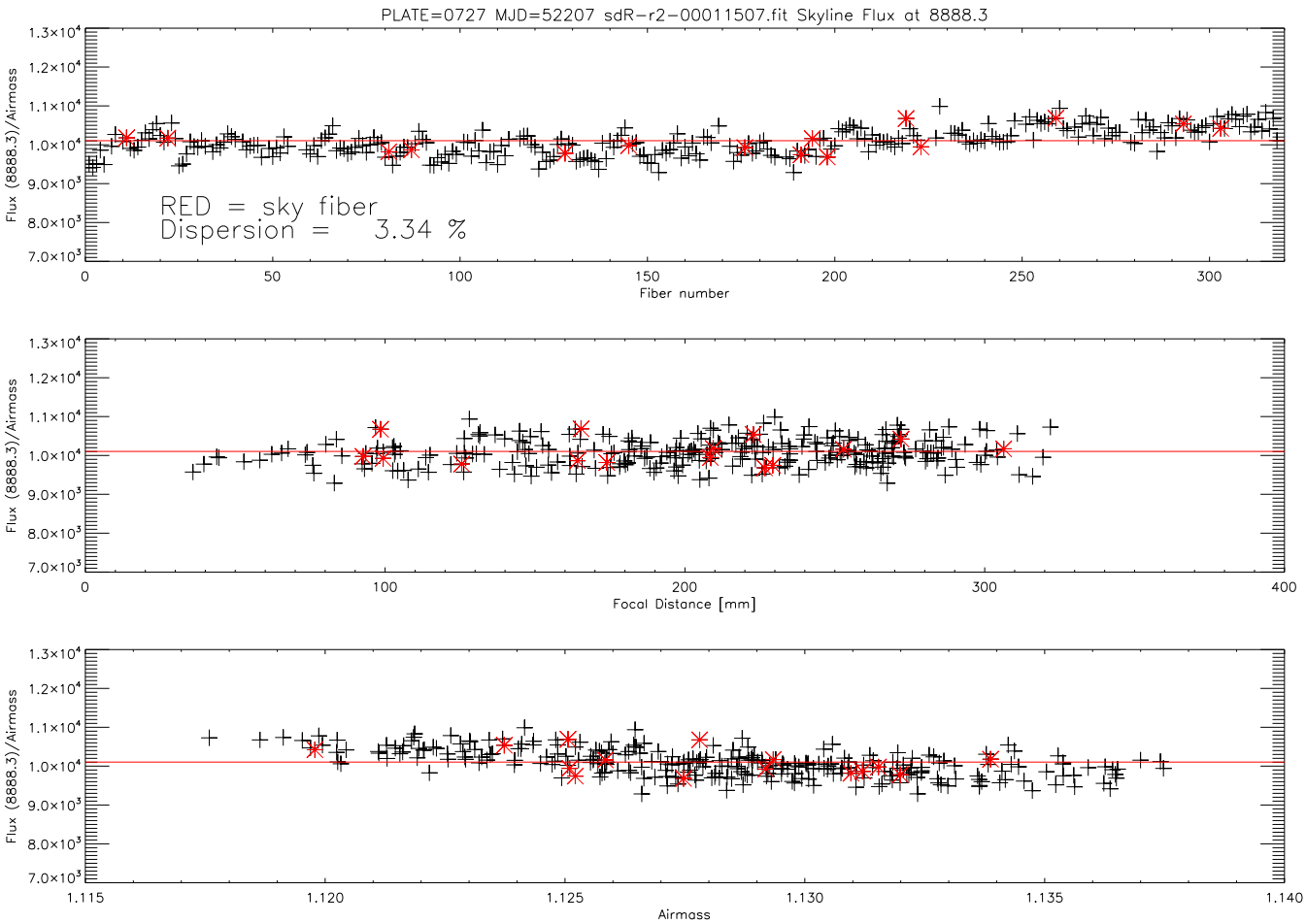

PLATE=0727 MJD=52207 sdR-r2-00011507.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

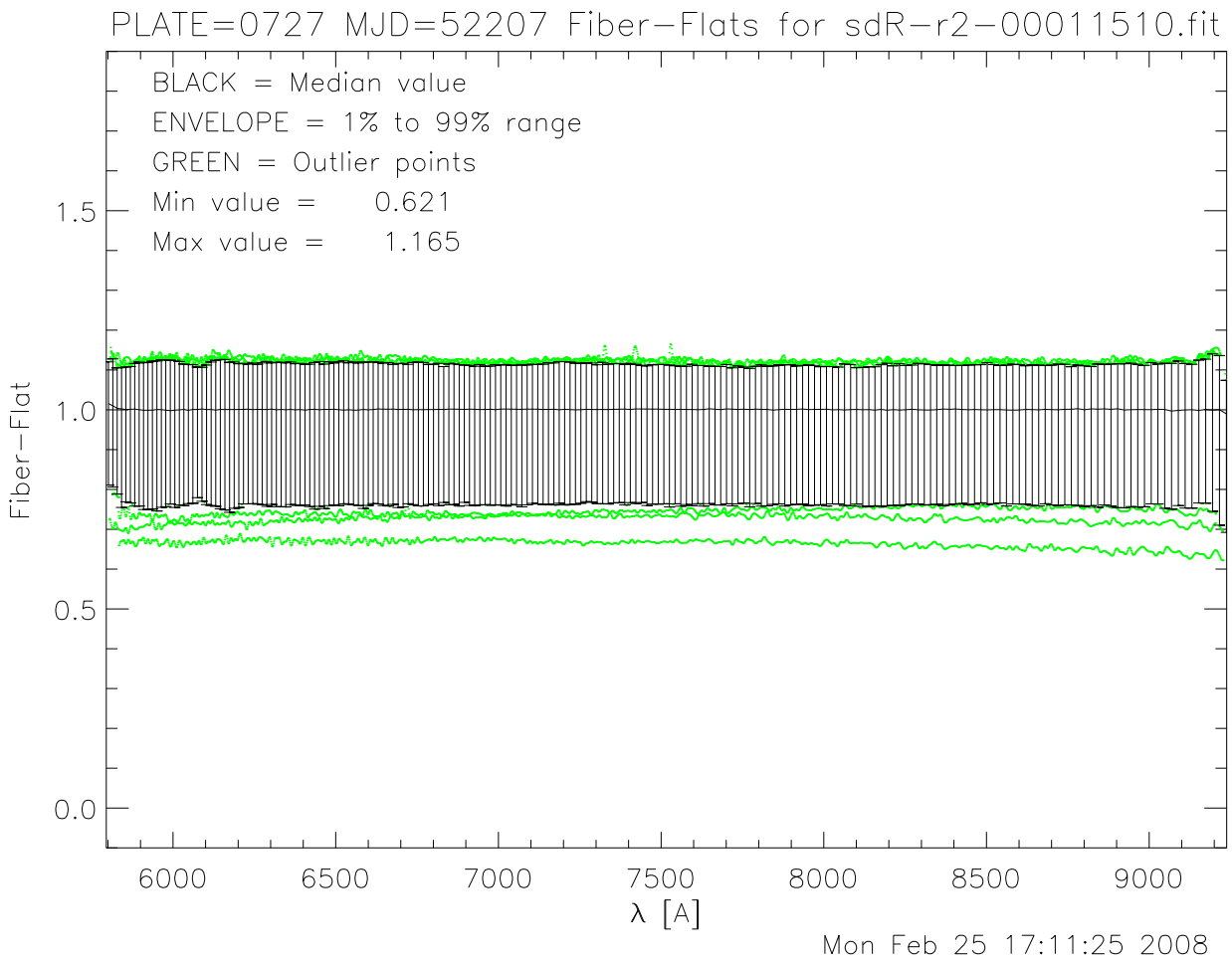

PLATE=0727 MJD=52207 sdR-r2-00011507.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

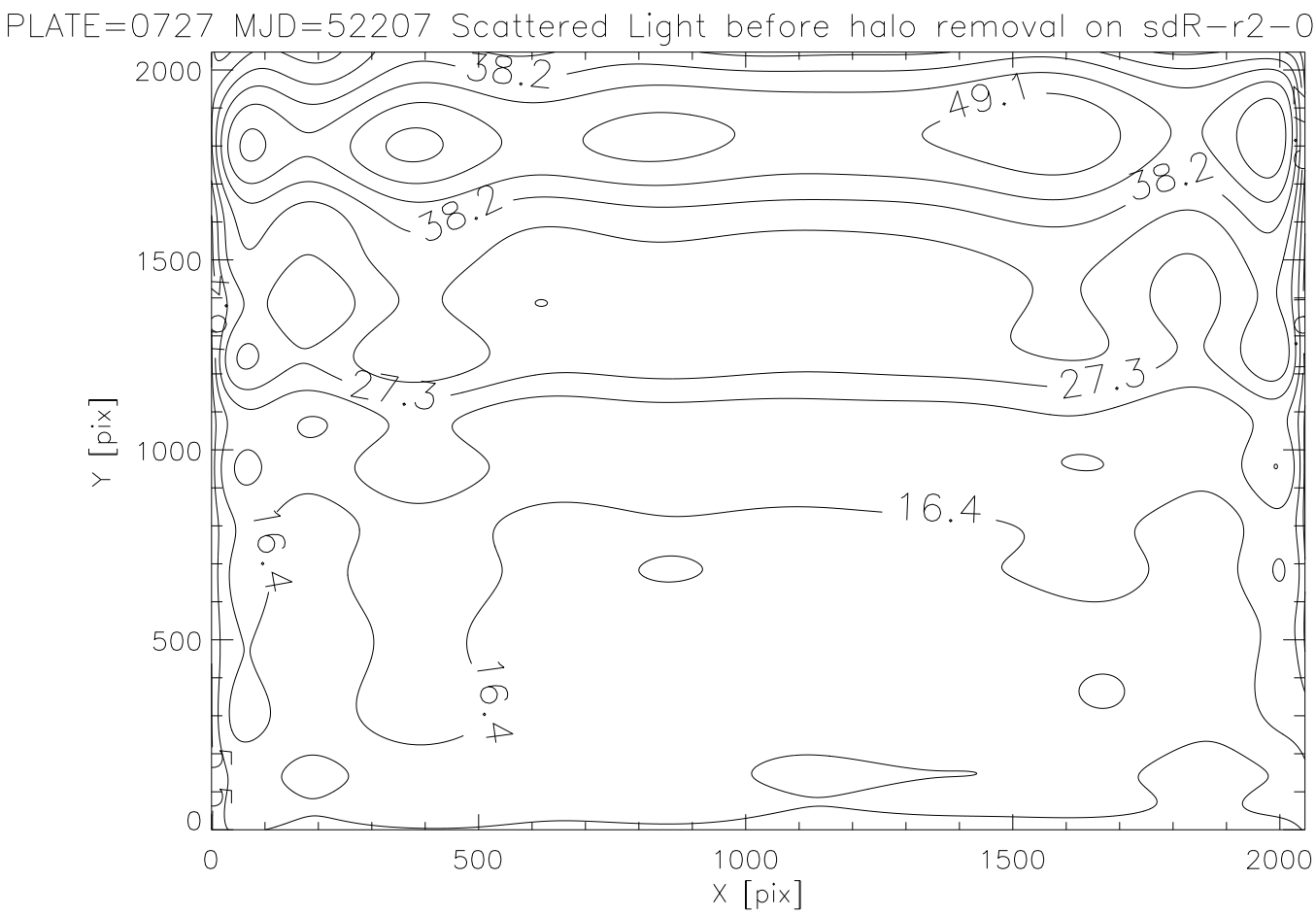

PLATE=0727 MJD=52207 sdR-r2-00011507.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

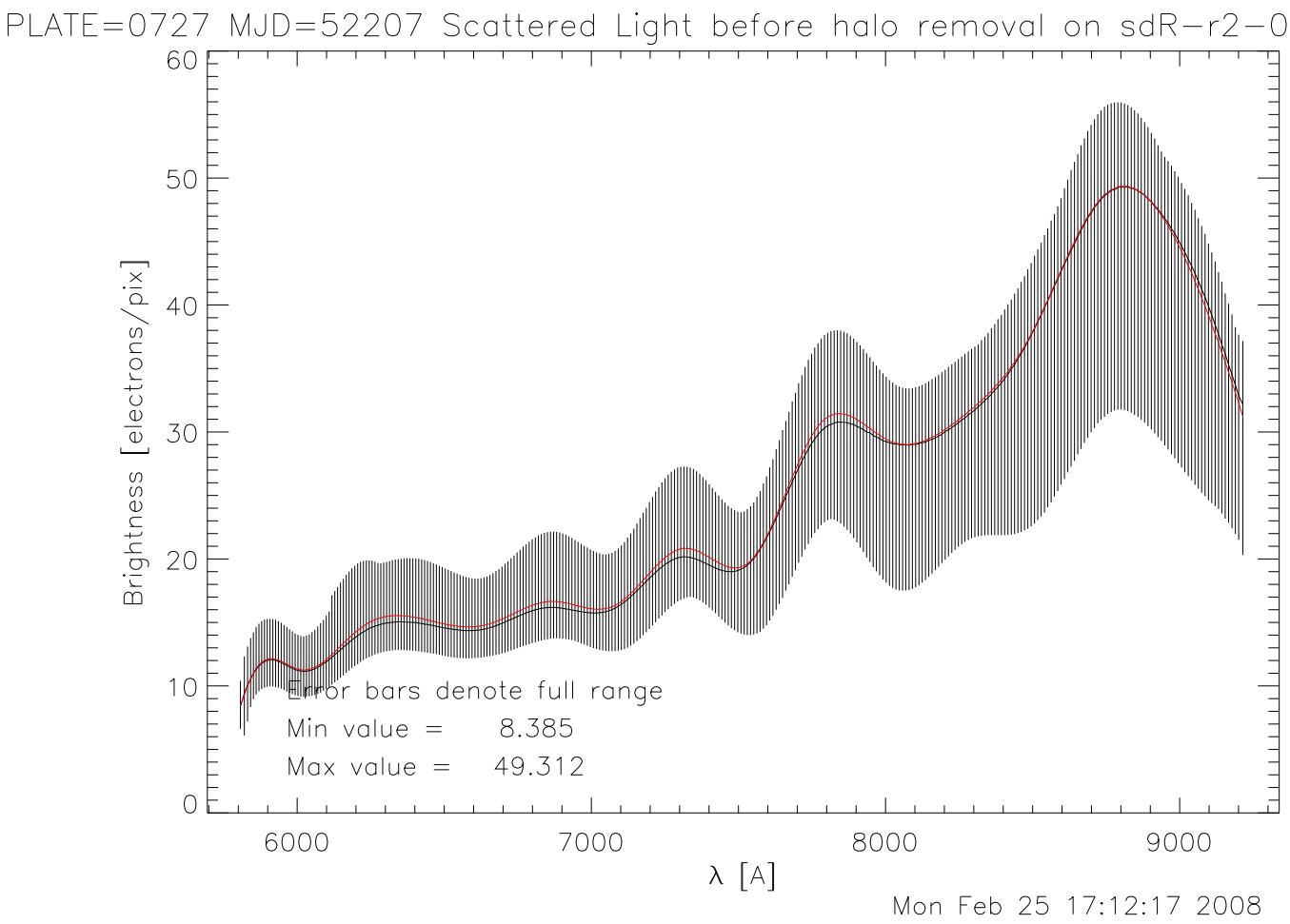

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-r2-00011507.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

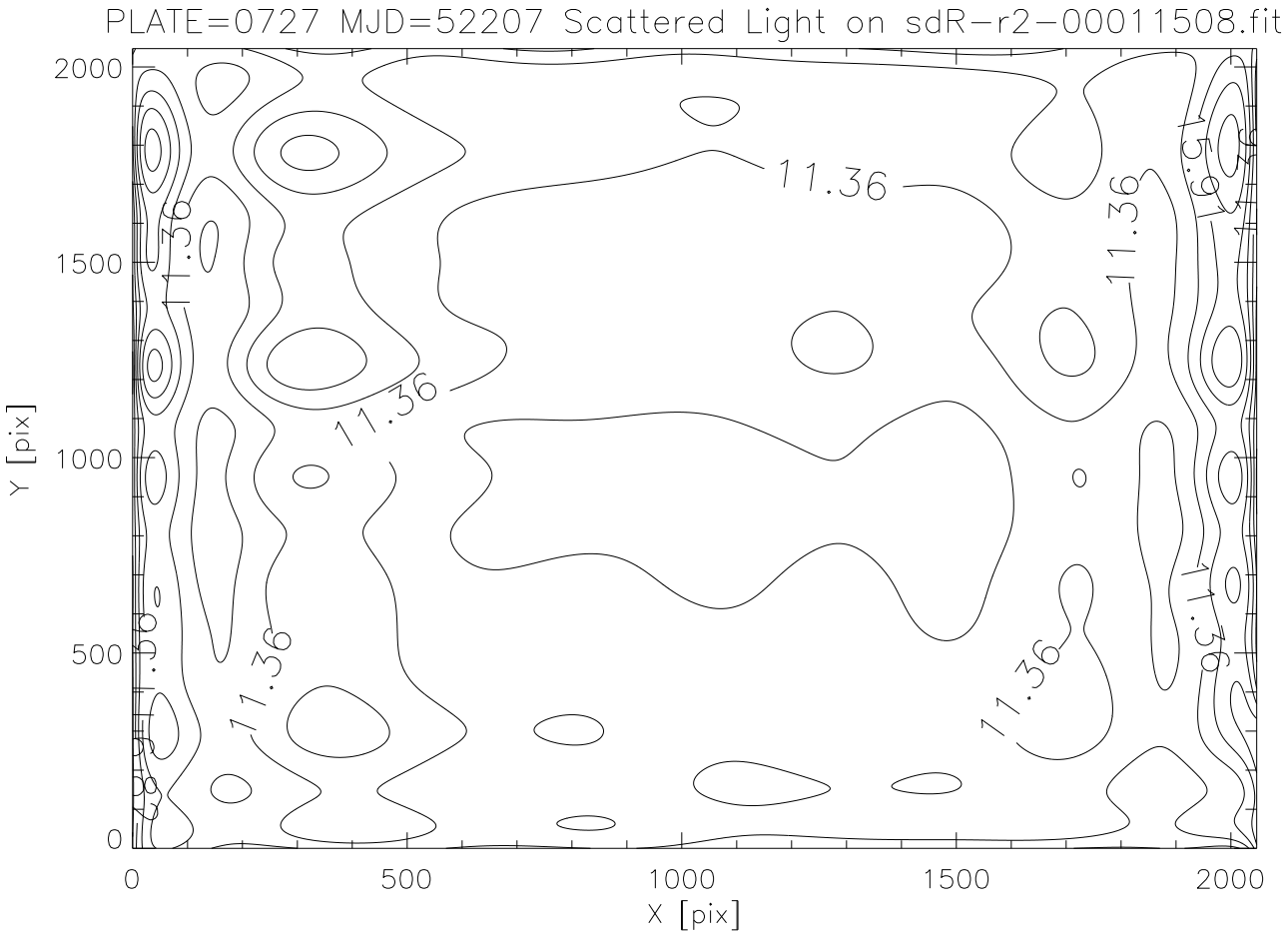

PLATE=0727 MJD=52207 sdR-r2-00011507.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.28 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

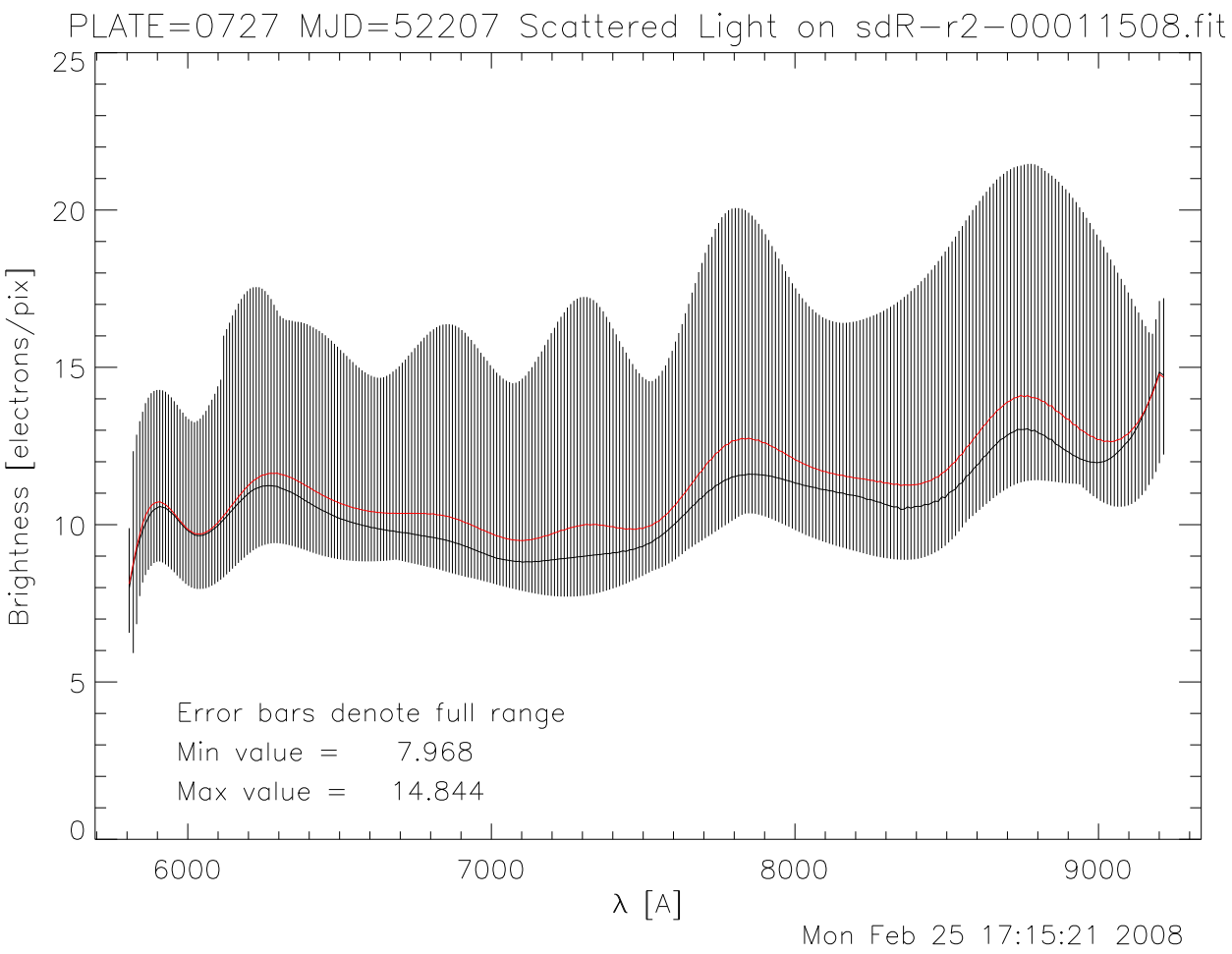

PLATE=0727 MJD=52207 sdR-r2-00011507.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.34 %
Fiber number
Focal Distance [mm]
Airmass

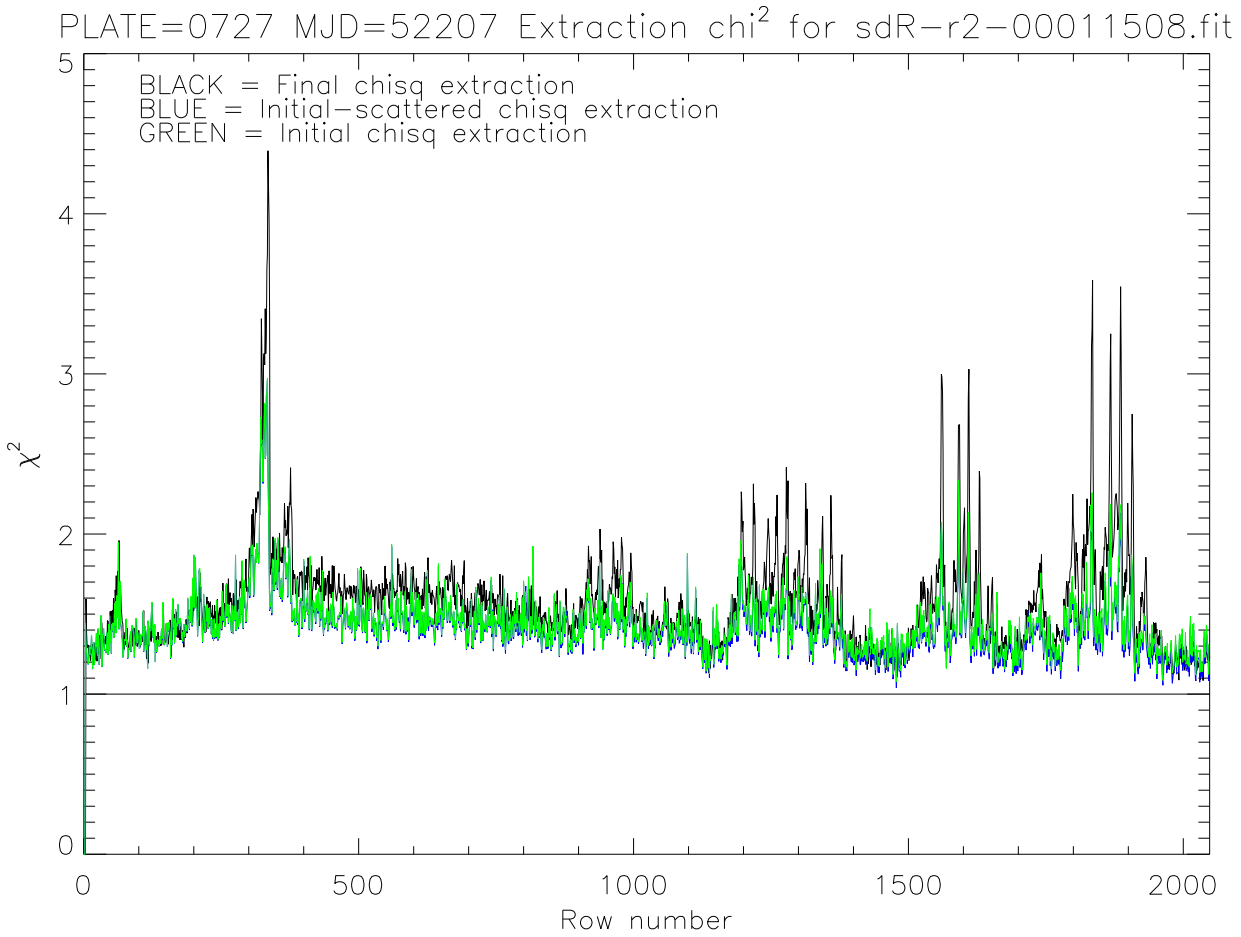

PLATE=0727 MJD=52207 Fiber−Flats for sdR−r2−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.621
Max value = 1.165
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 17:11:25 2008

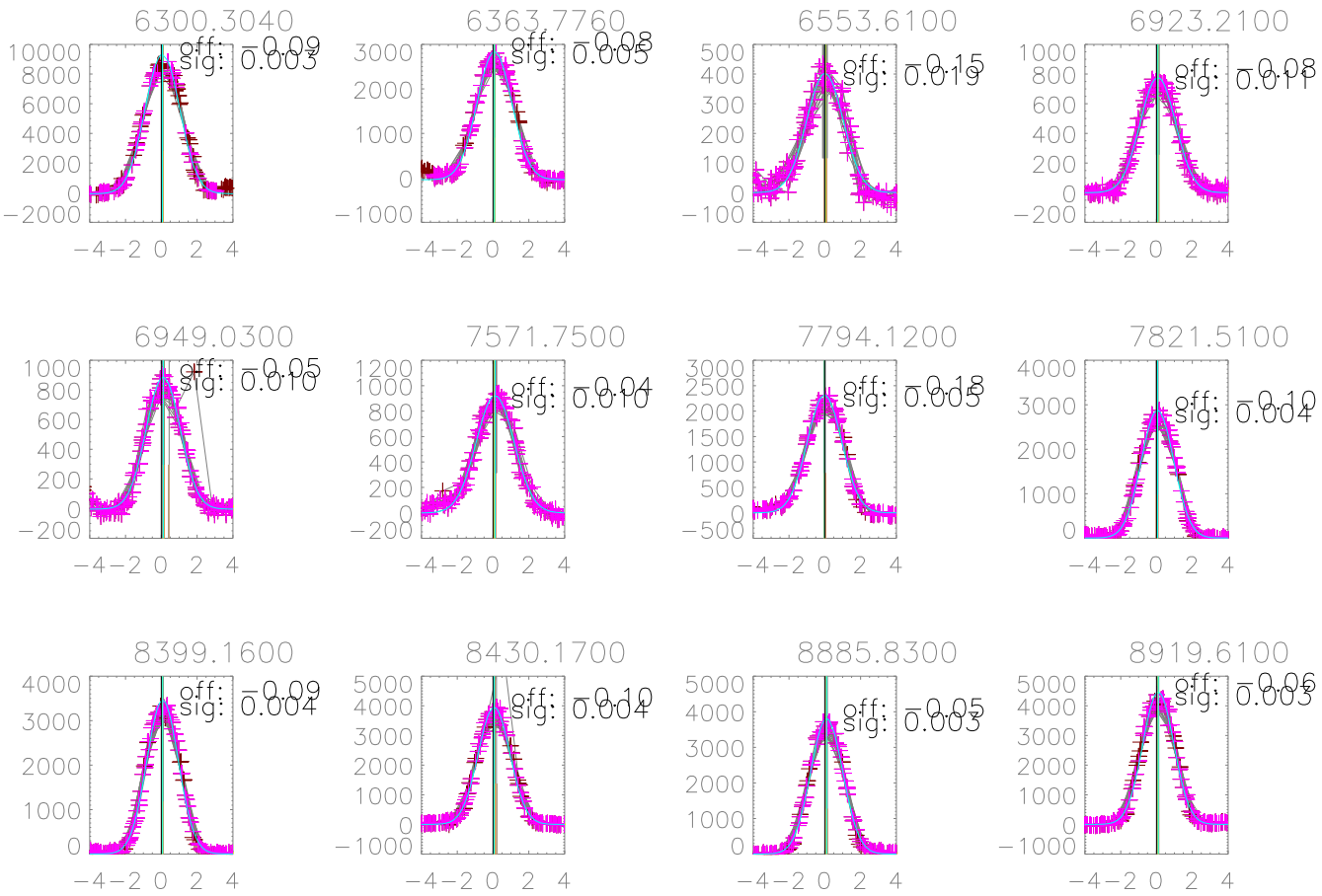

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r2-00011508.fi
38.2
49.1
38.2
38.2
27.3
27.3
16.4
16.4
16.4
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

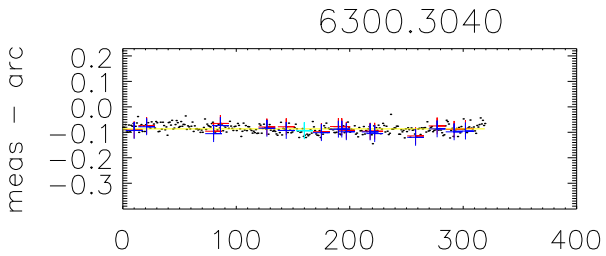

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r2-00011508.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.385
Max value = 49.312
Mon Feb 25 17:12:17 2008

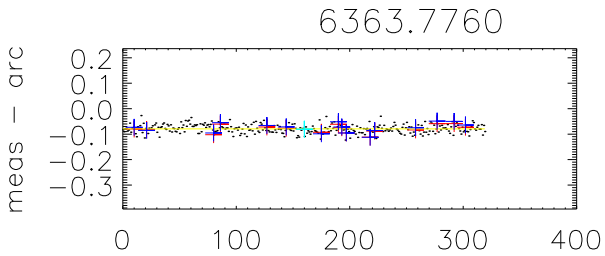

PLATE=0727 MJD=52207 Scattered Light on sdR-r2-00011508.fit
11.36
11.36
11.36

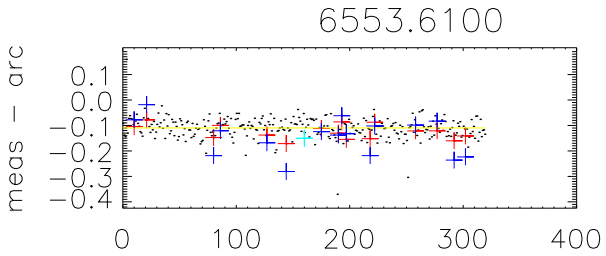

PLATE=0727 MJD=52207 Scattered Light on sdR-r2-00011508.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.968
Max value = 14.844
Mon Feb 25 17:15:21 2008

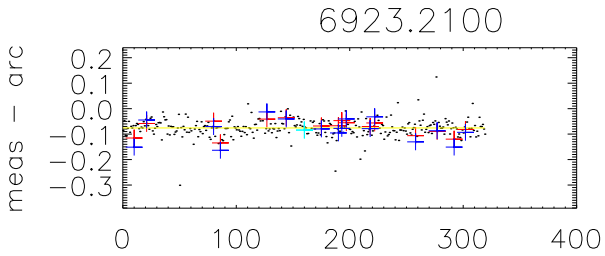

PLATE=0727 MJD=52207 Extraction chi^2 for sdR−r2−00011508.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

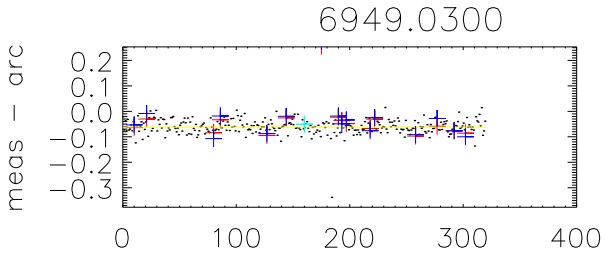

6300.3040
off: −0.09
sig: 0.003
6363.7760
off: −0.08
sig: 0.005
6553.6100
off: −0.15
sig: 0.019
6923.2100
off: −0.08
sig: 0.011
6949.0300
off: −0.05
sig: 0.010
7571.7500
off: −0.04
sig: 0.010
7794.1200
off: −0.18
sig: 0.005
7821.5100
off: −0.10
sig: 0.004
8399.1600
off: −0.09
sig: 0.004
8430.1700
off: −0.10
sig: 0.004
8885.8300
off: −0.05
sig: 0.003
8919.6100
off: −0.06
sig: 0.003

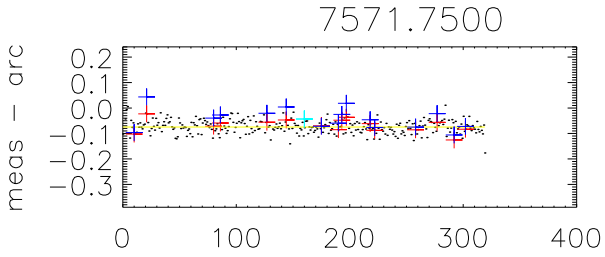

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

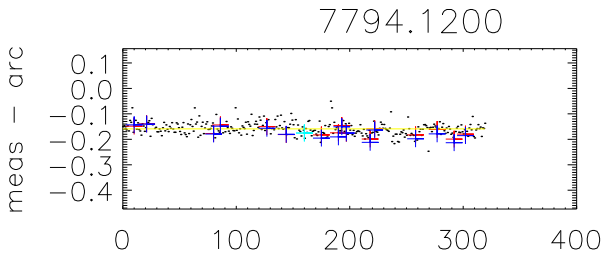

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

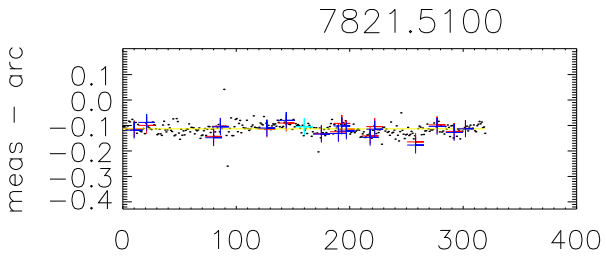

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

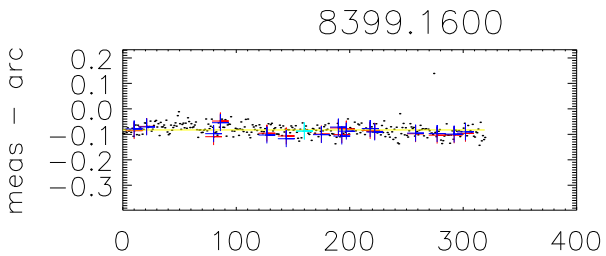

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

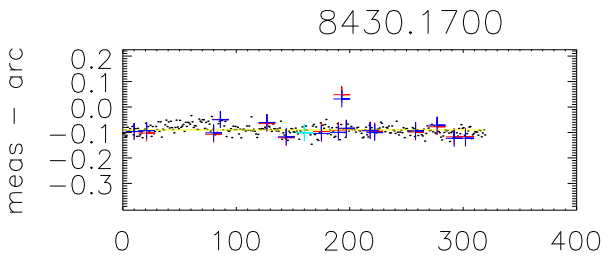

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

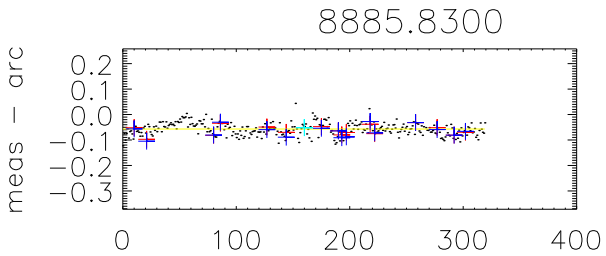

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

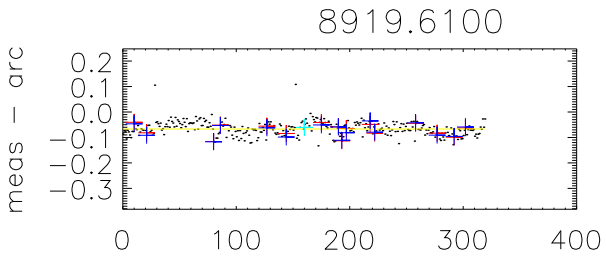

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

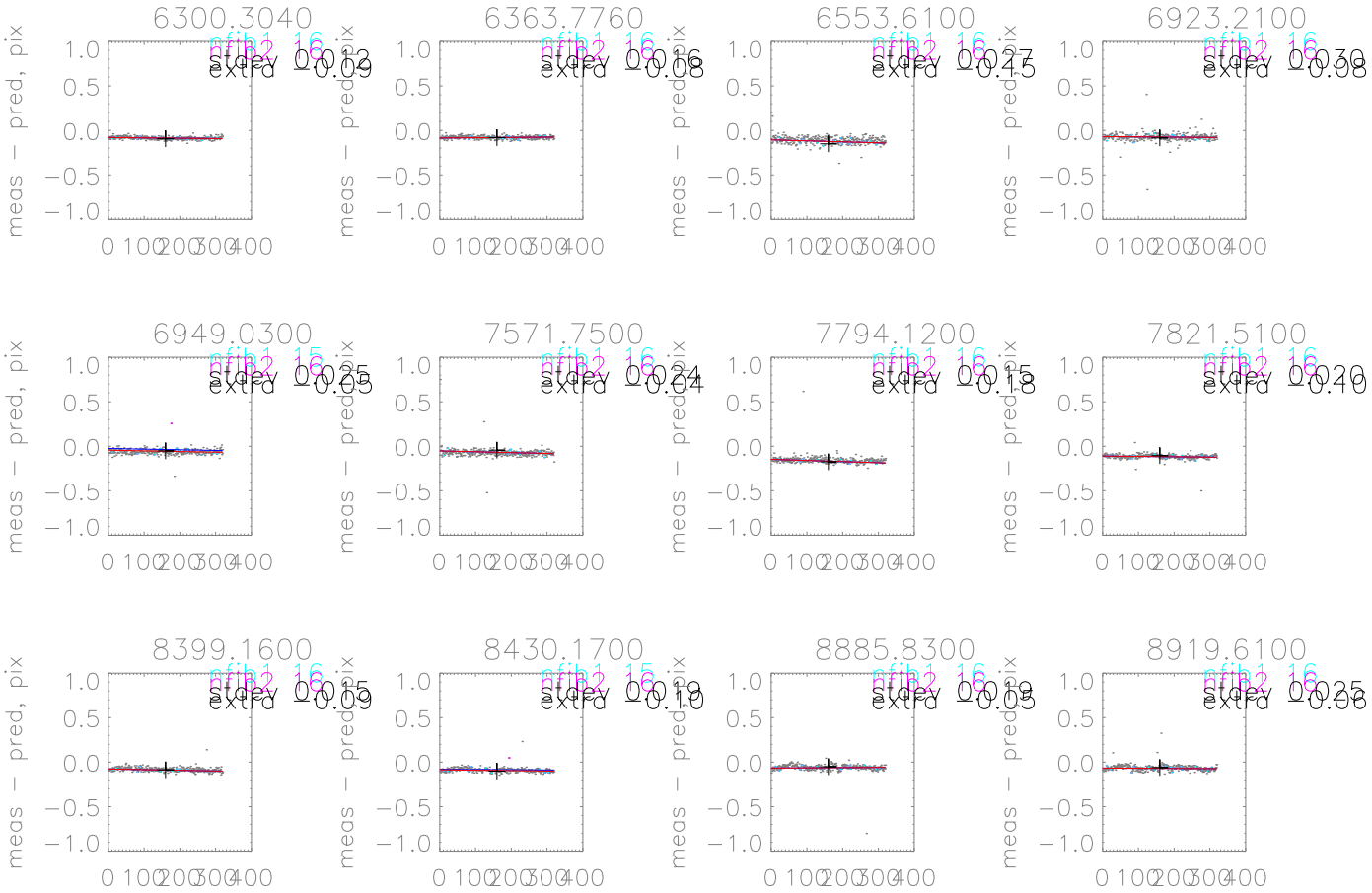

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

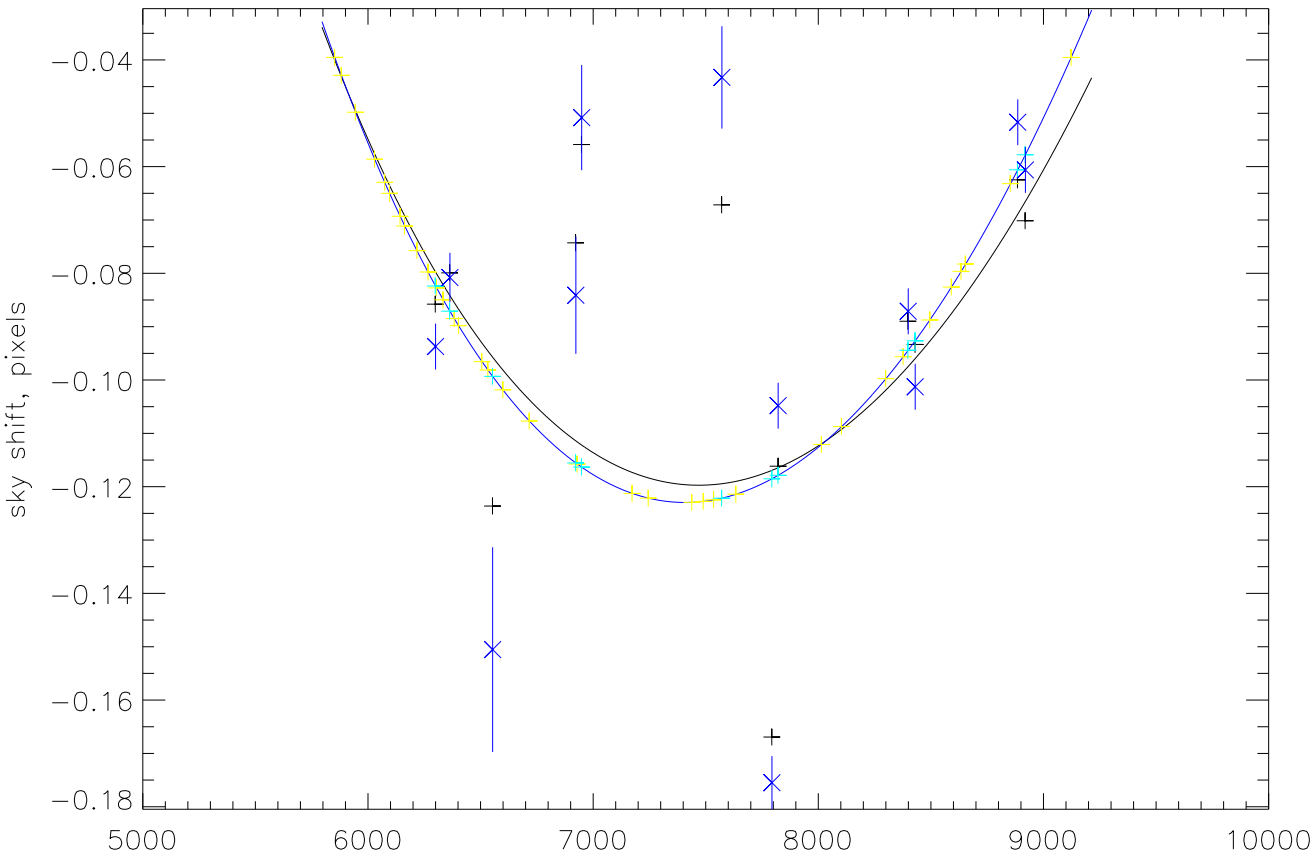

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

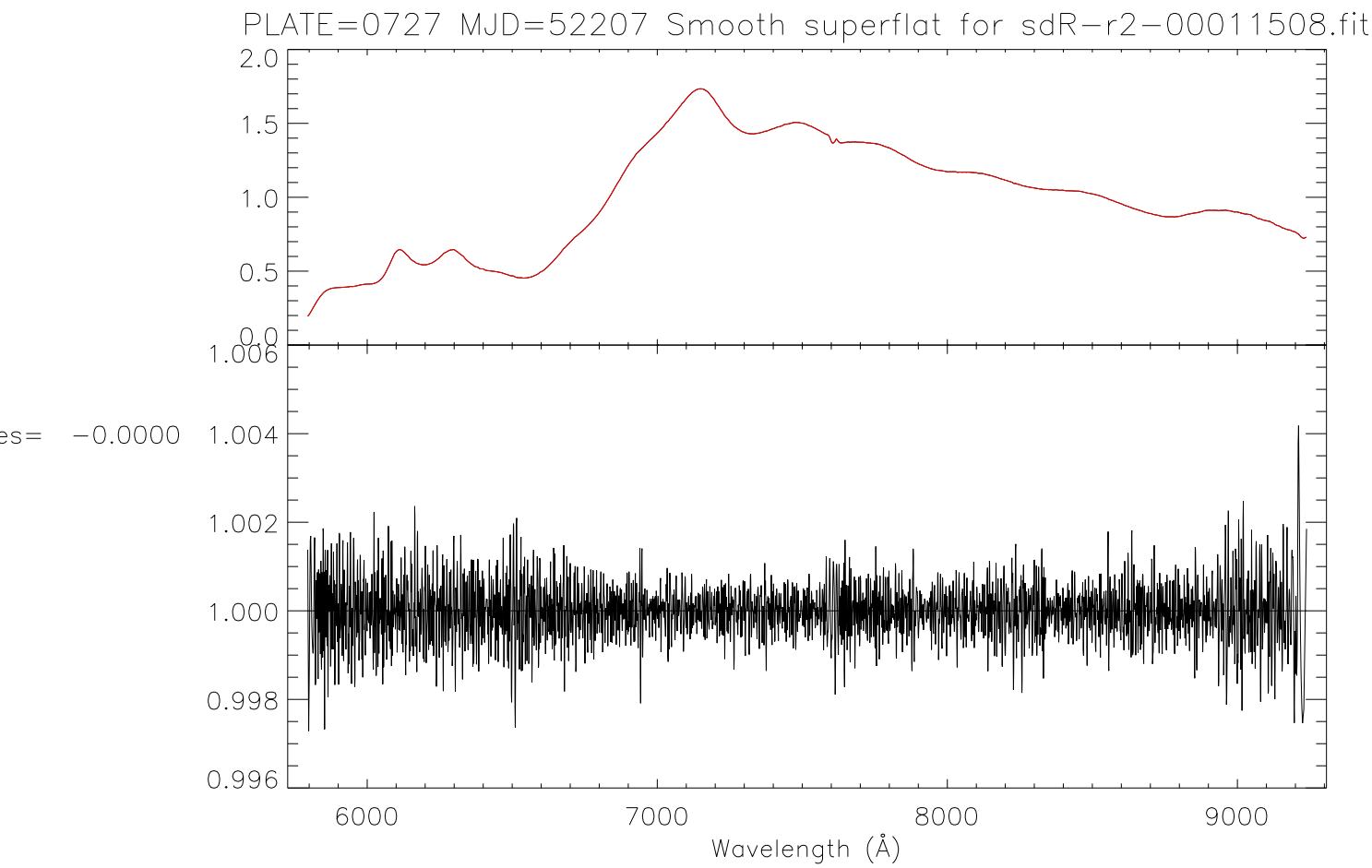

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

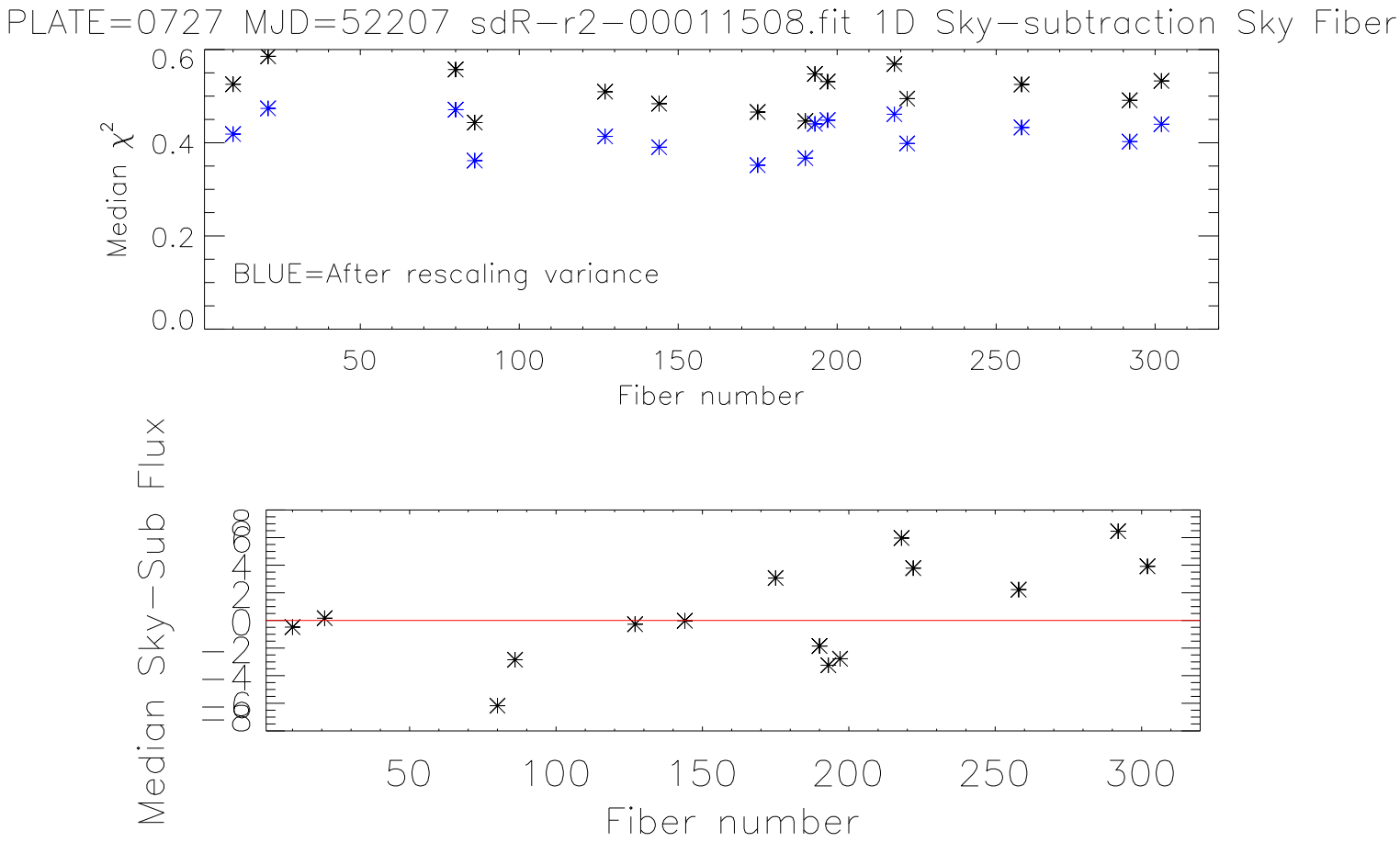

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

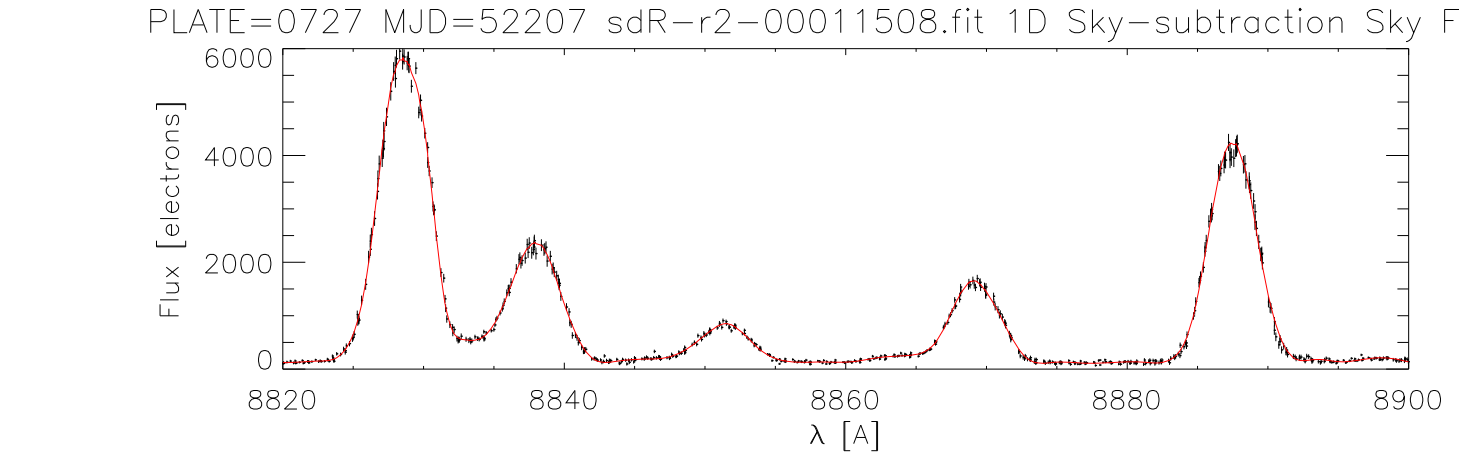

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

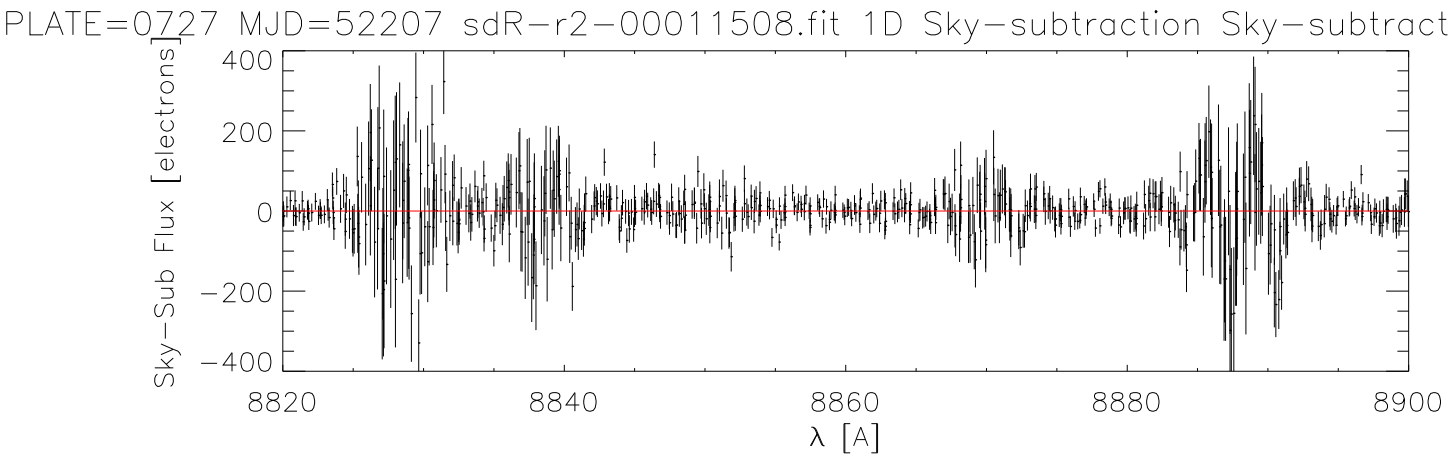

6300.3040
stdev 0.02
extra 0.09
6363.7760
stdev 0.06
extra 0.08
6553.6100
stdev 0.27
extra 0.45
6923.2100
stdev 0.30
extra 0.08
6949.0300
stdev 0.25
extra 0.05
7571.7500
stdev 0.24
extra 0.04
7794.1200
stdev 0.15
extra 0.18
7821.5100
stdev 0.20
extra 0.40
8399.1600
stdev 0.15
extra 0.09
8430.1700
stdev 0.19
extra 0.10
8885.8300
stdev 0.19
extra 0.05
8919.6100
stdev 0.25
extra 0.08
meas − pred, pix
mfib1 16
mfib2 16

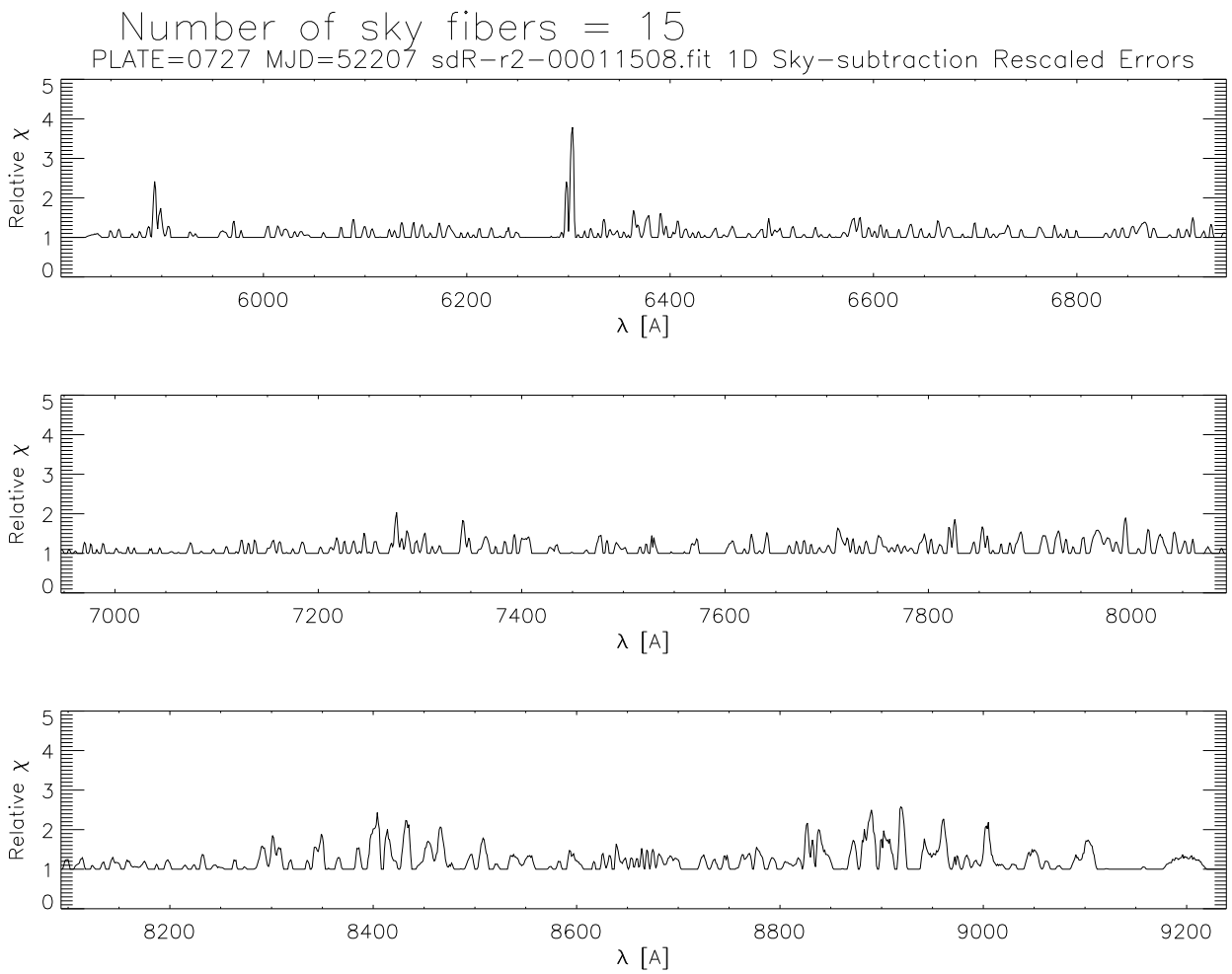

sky shift, pixels
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
5000
6000
7000
8000
9000
10000

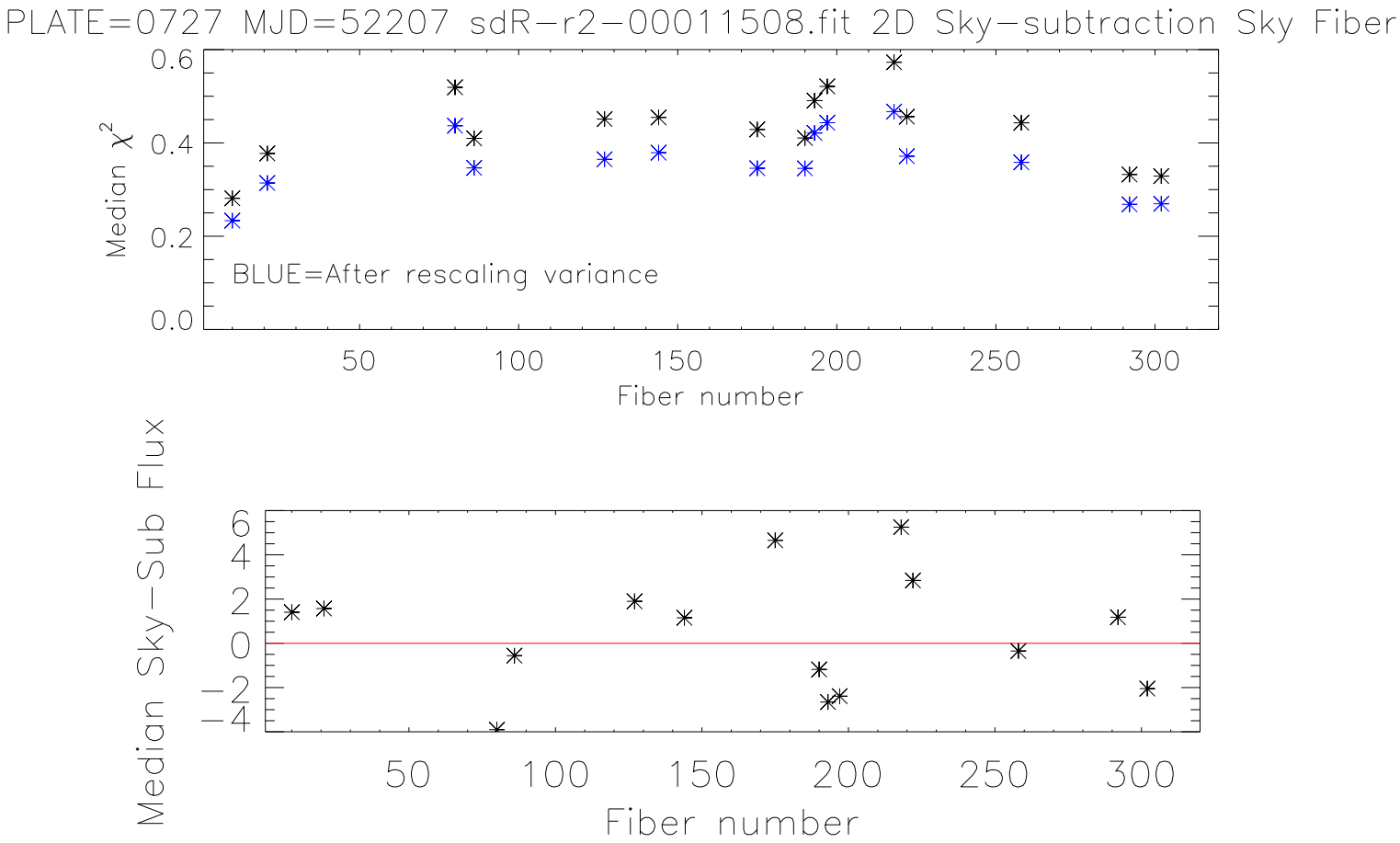

PLATE=0727 MJD=52207 Smooth superflat for sdR-r2-00011508.fit
2.0
1.5
1.0
0.5
0.0
es= −0.0000
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

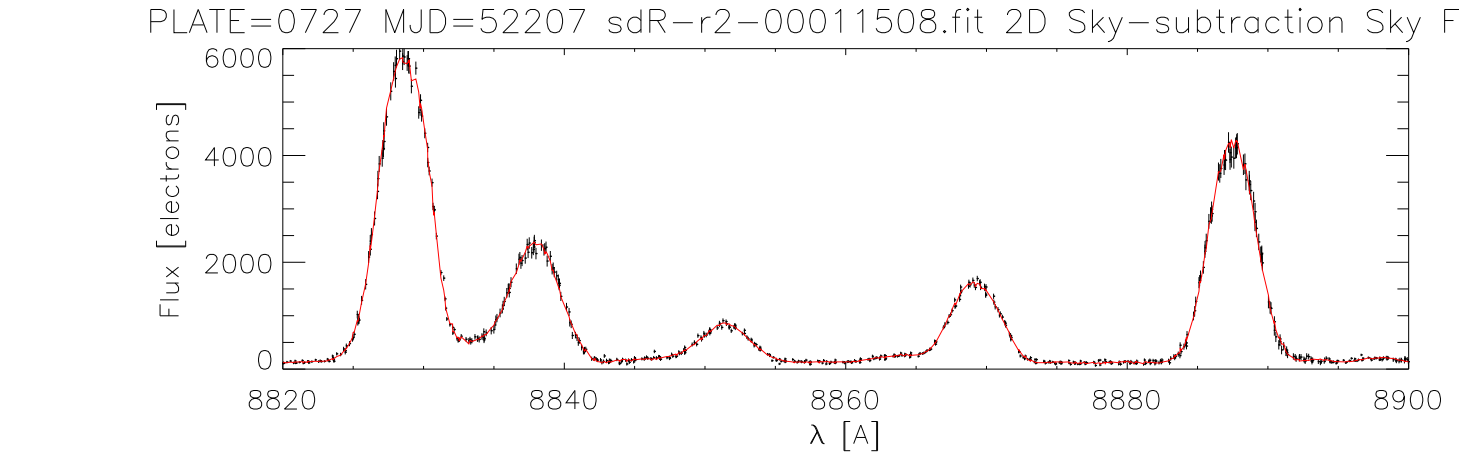

PLATE=0727 MJD=52207 sdR-r2-00011508.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-0.6
-0.4
-0.2
0.0
0.2
0.4
0.6
50
100
150
200
250
300
Fiber number

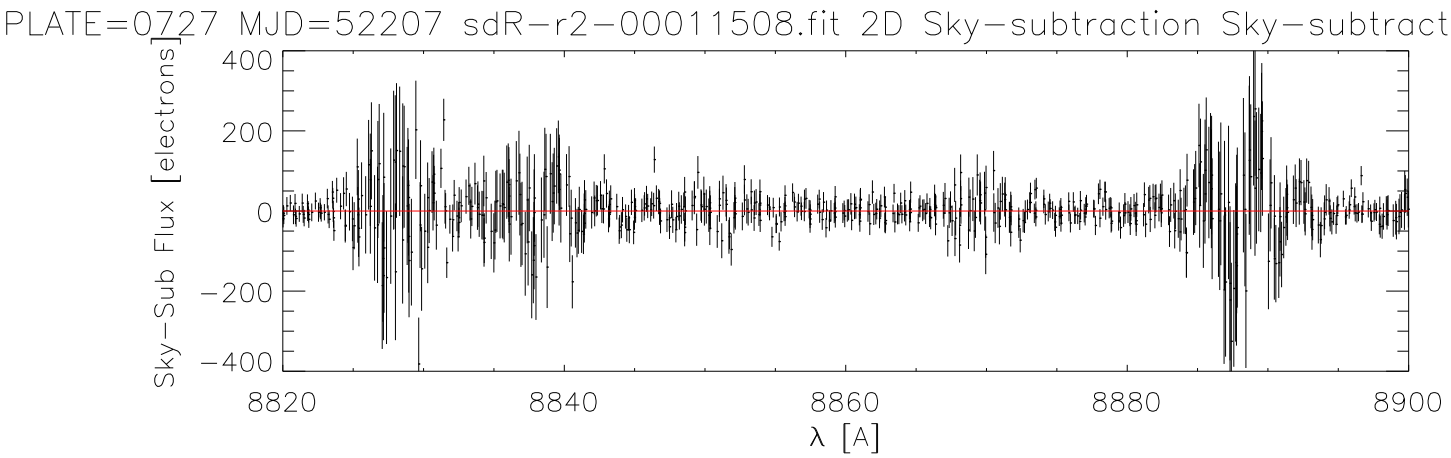

PLATE=0727 MJD=52207 sdR-r2-00011508.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

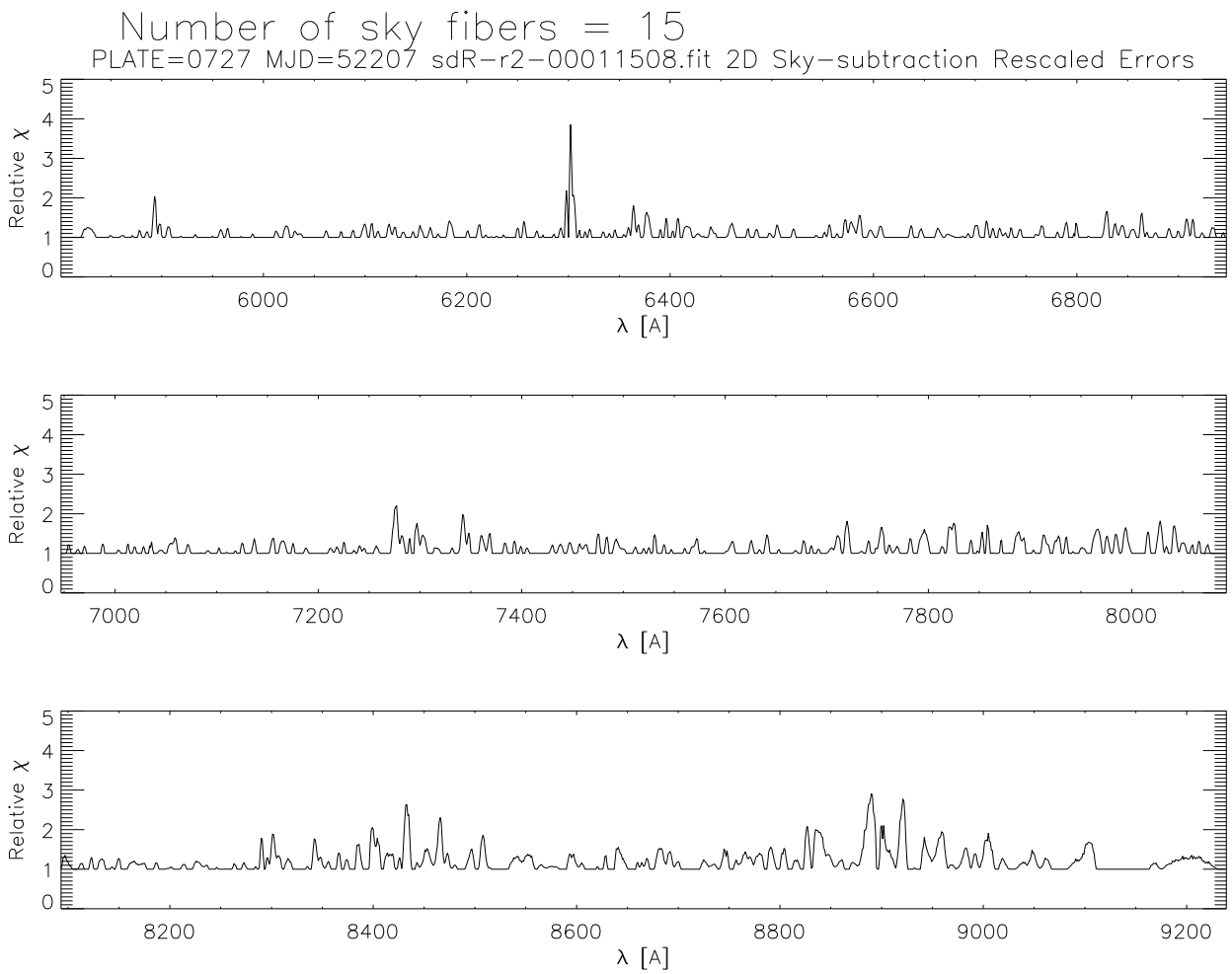

PLATE=0727 MJD=52207 sdR-r2-00011508.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

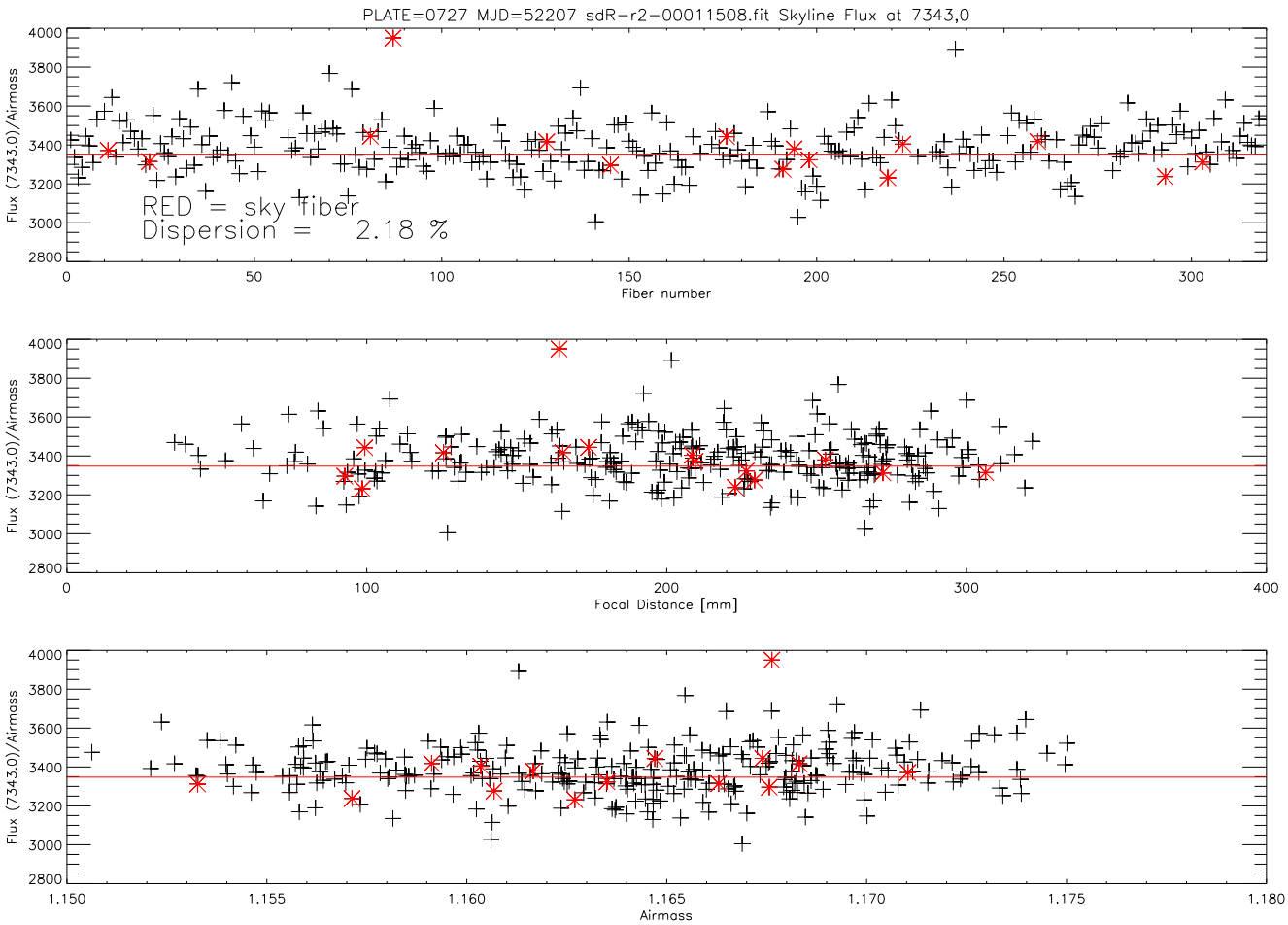

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-r2-00011508.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

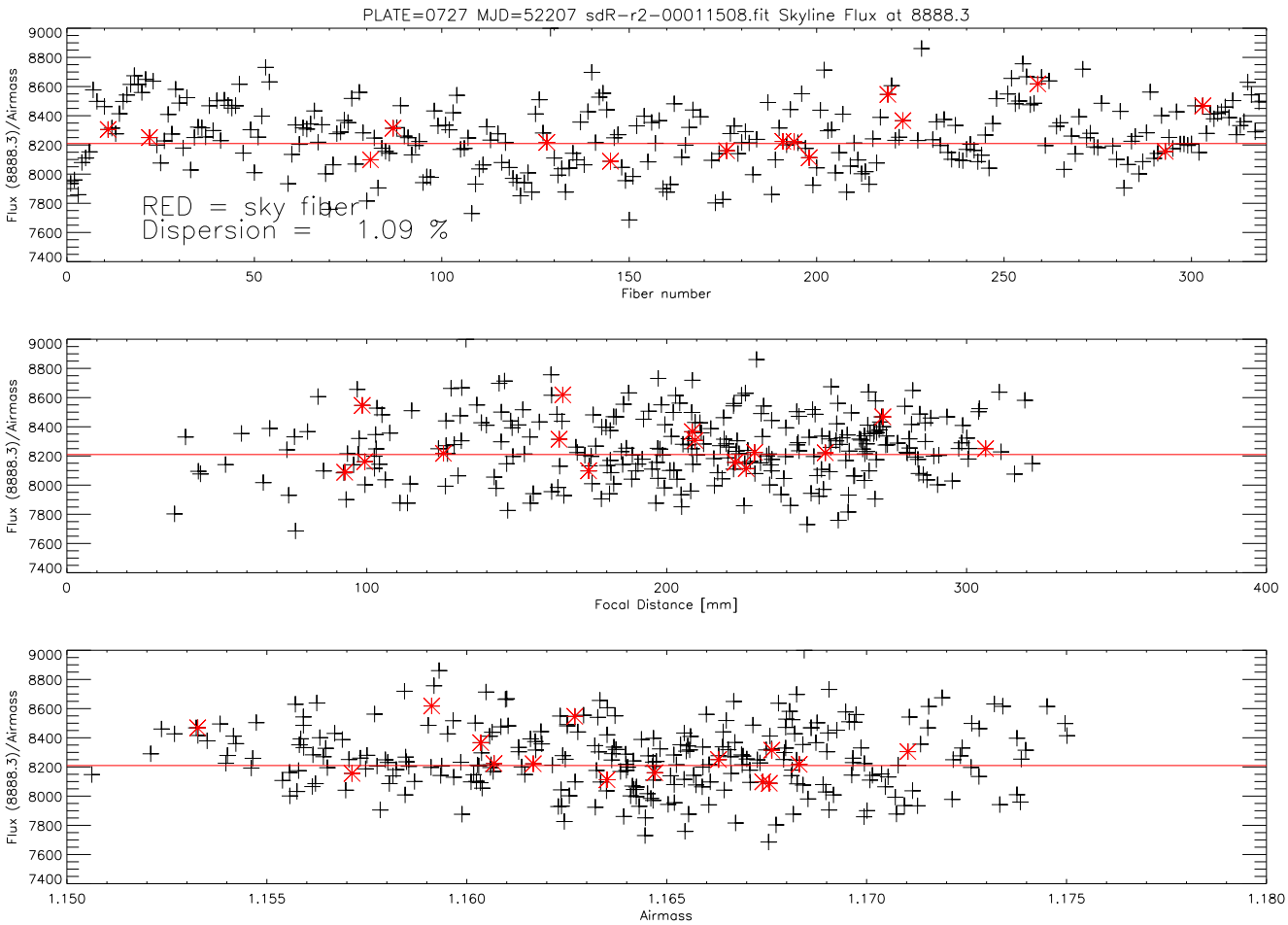

PLATE=0727 MJD=52207 sdR-r2-00011508.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

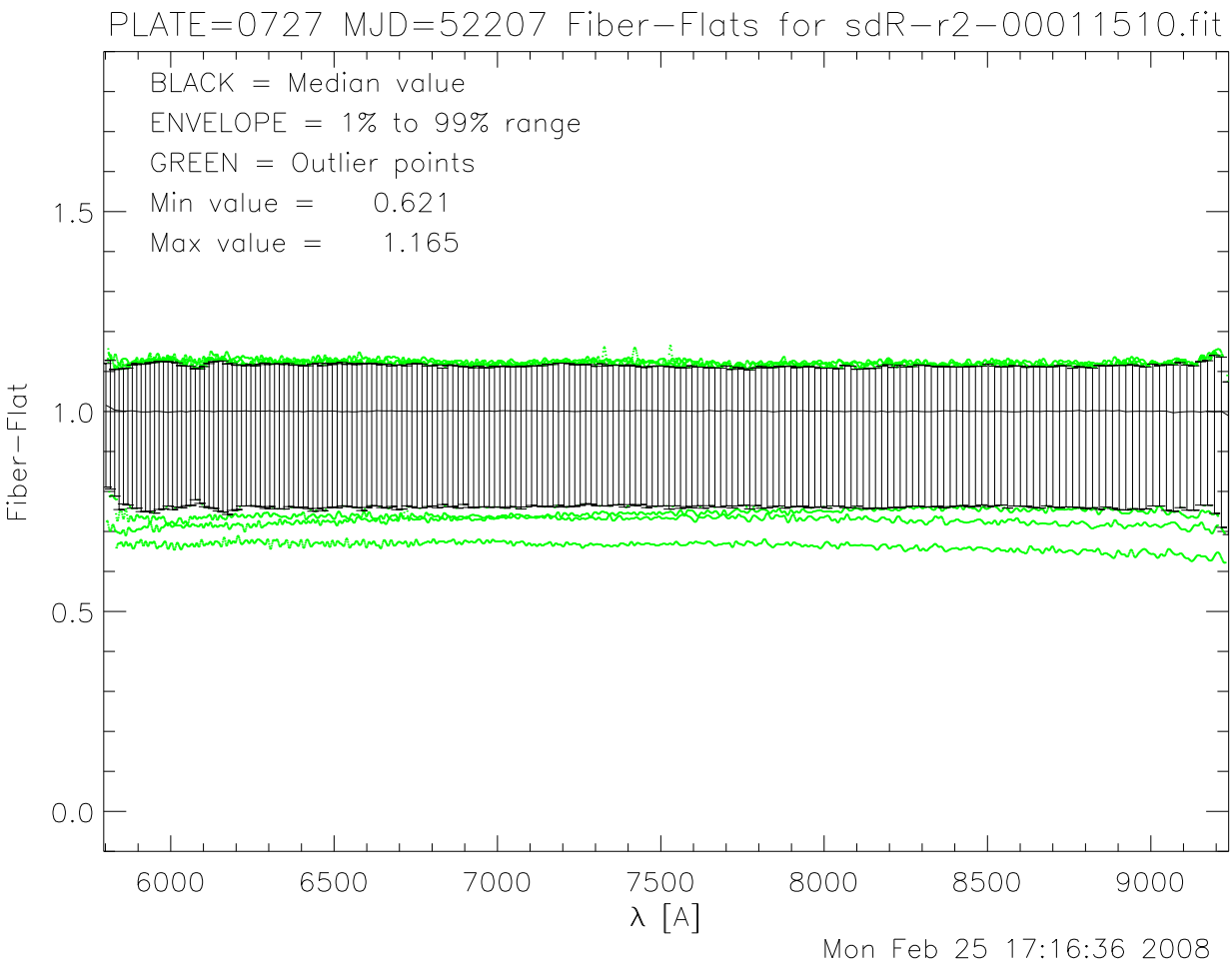

PLATE=0727 MJD=52207 sdR-r2-00011508.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

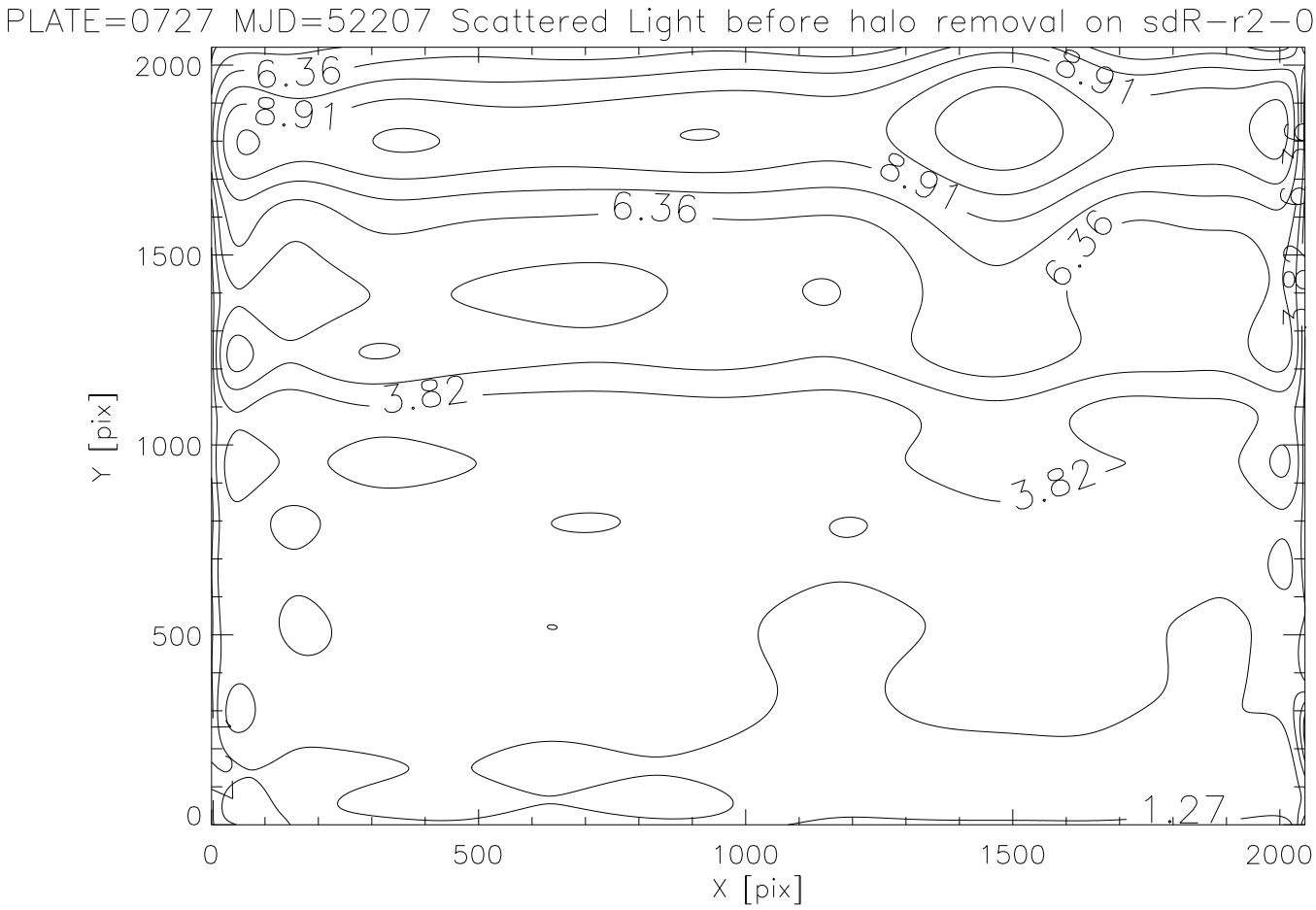

PLATE=0727 MJD=52207 sdR-r2-00011508.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

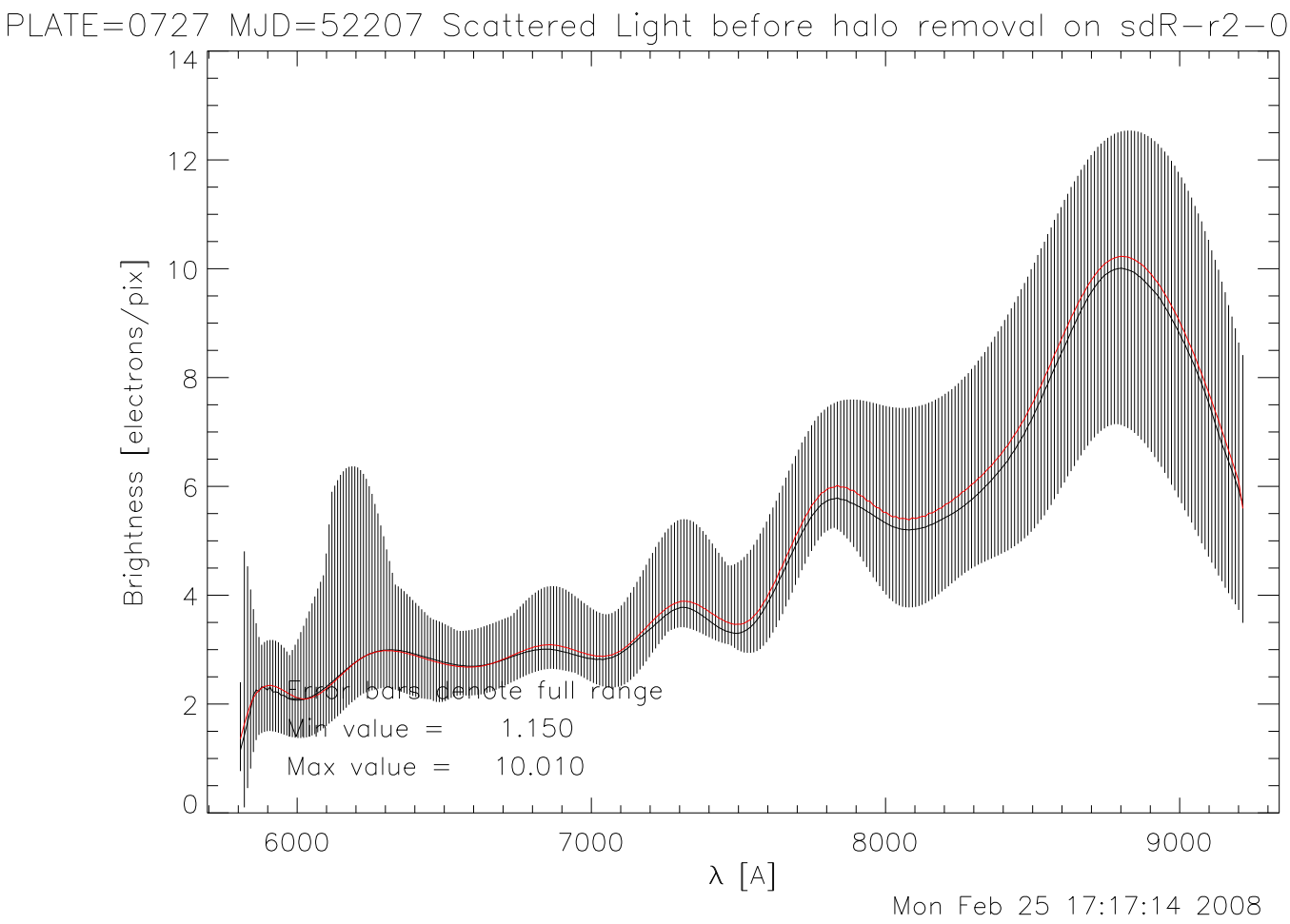

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-r2-00011508.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

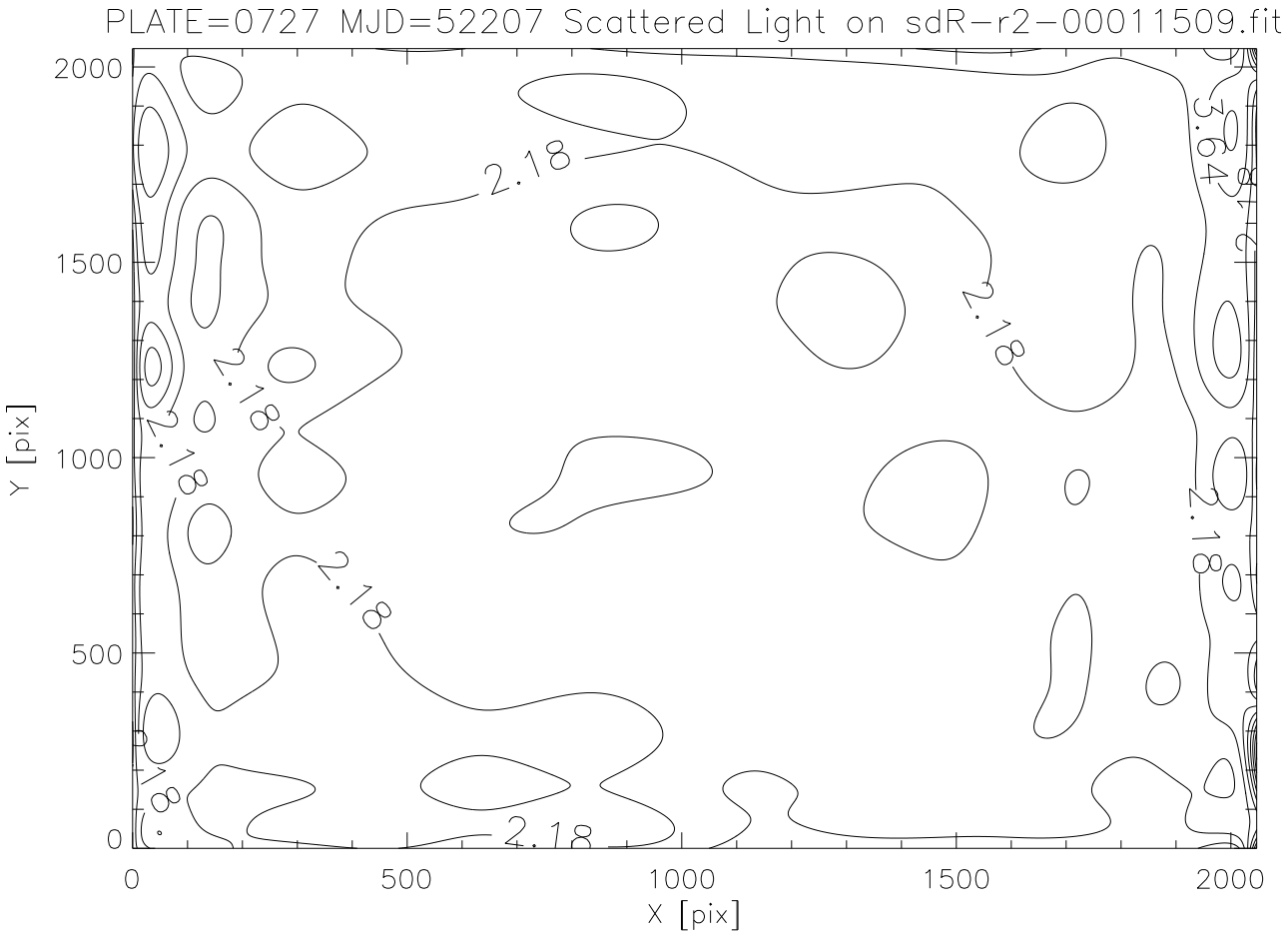

PLATE=0727 MJD=52207 sdR-r2-00011508.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.18 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

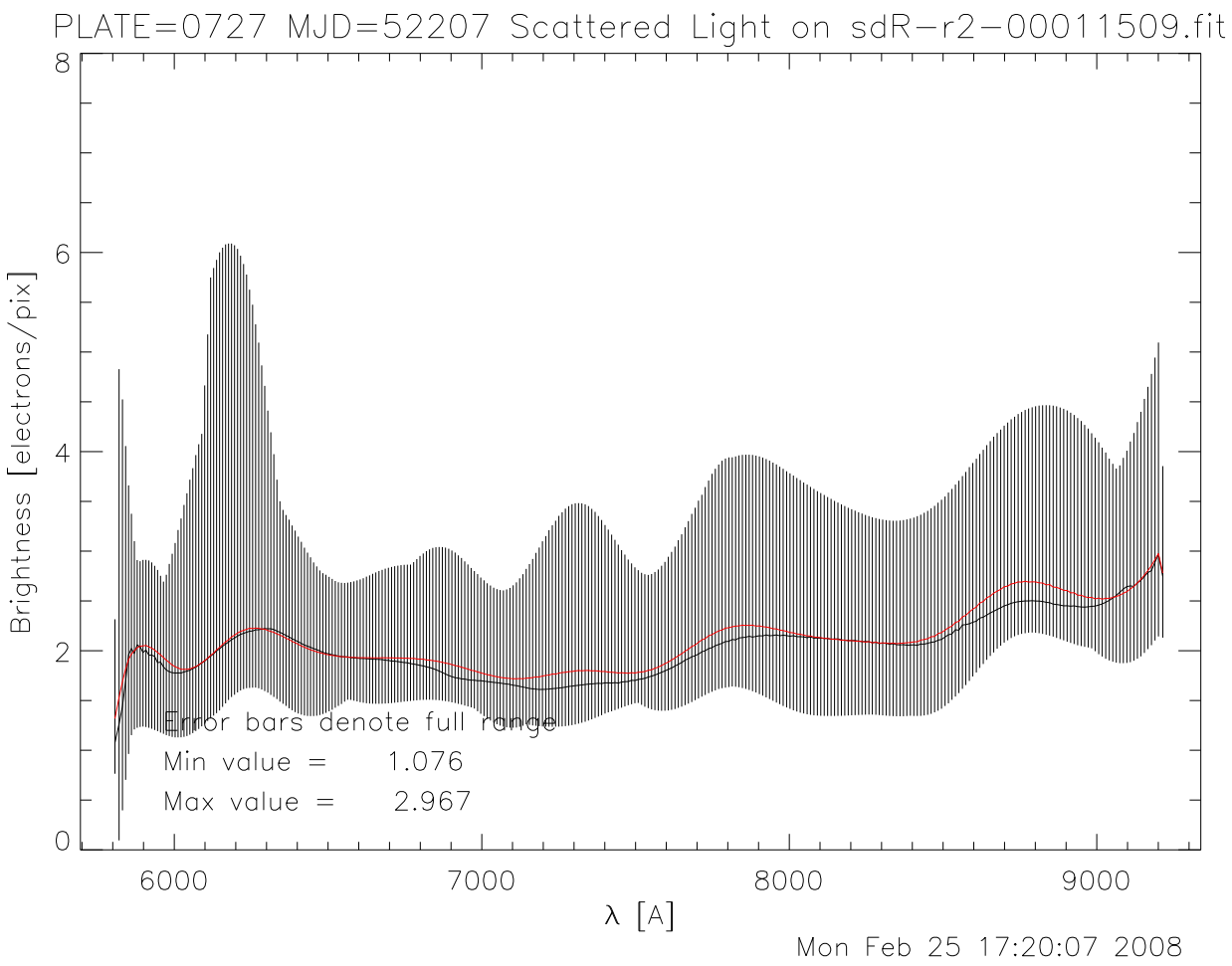

PLATE=0727 MJD=52207 sdR-r2-00011508.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.09 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

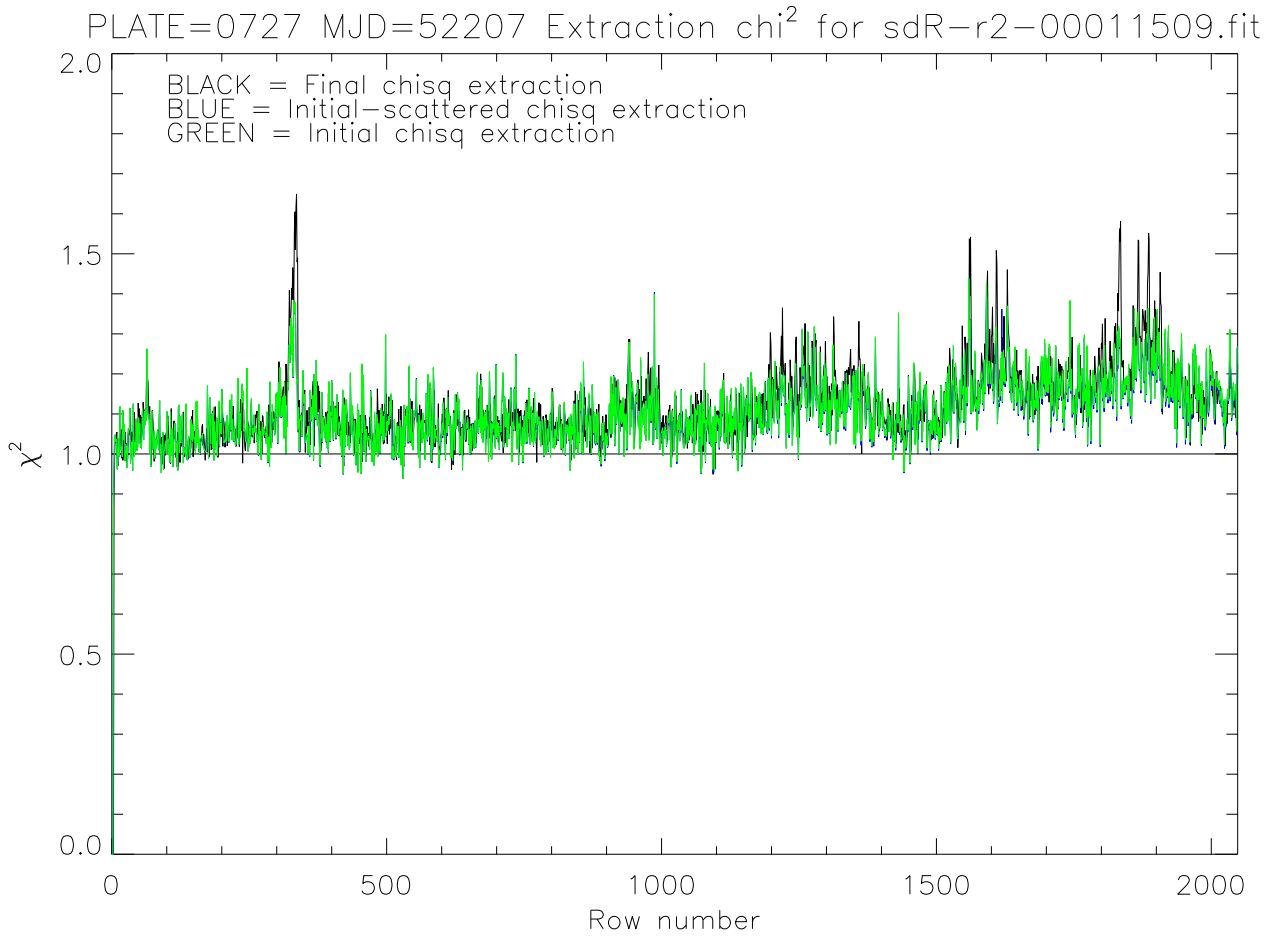

PLATE=0727 MJD=52207 Fiber−Flats for sdR−r2−00011510.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.621
Max value = 1.165
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 25 17:16:36 2008

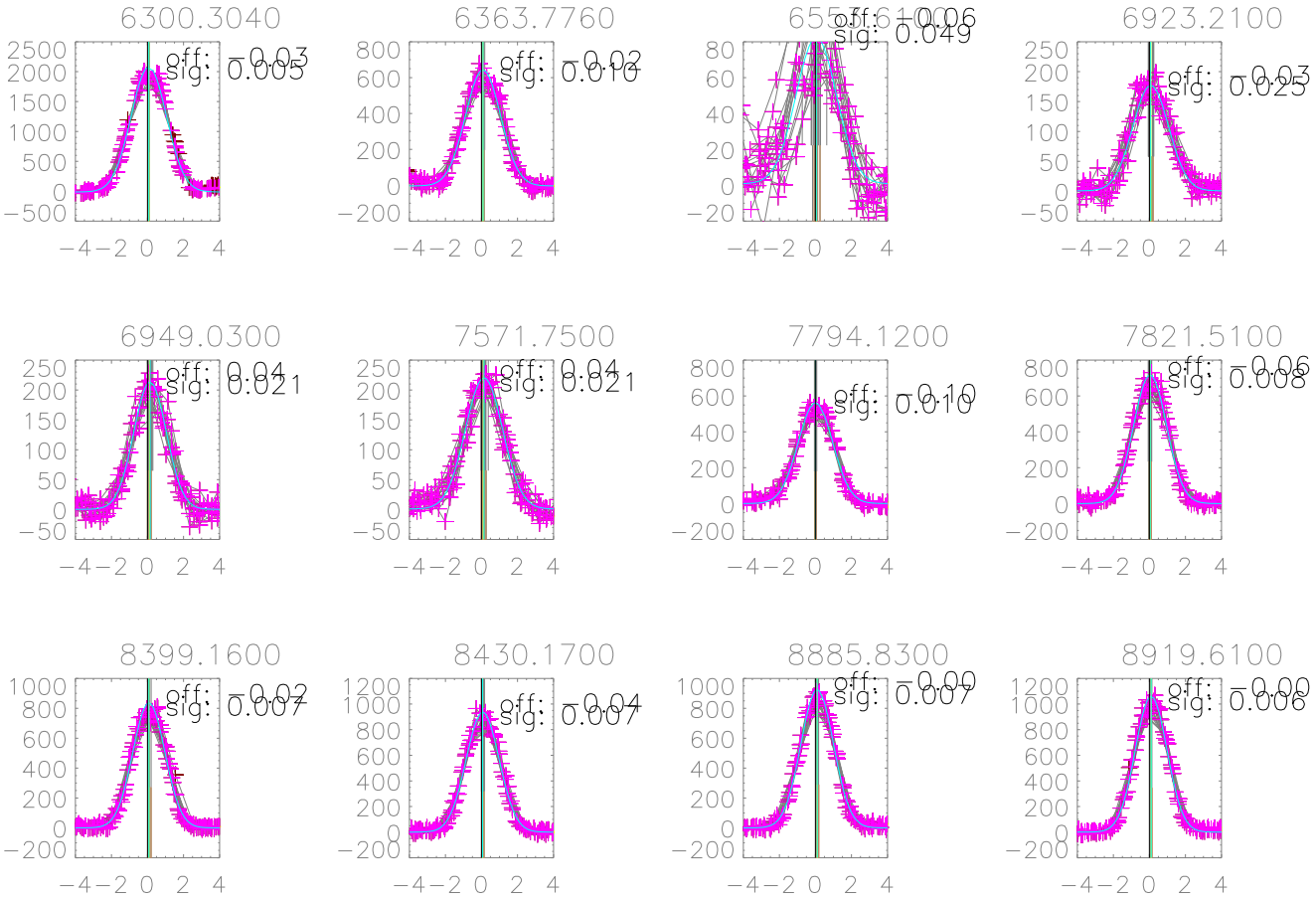

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r2-00011509.fi
6.36
8.91
8.91
6.36
8.91
6.36
3.82
3.82
1.27
Y [pix]
X [pix]
0
500
1000
1500
2000

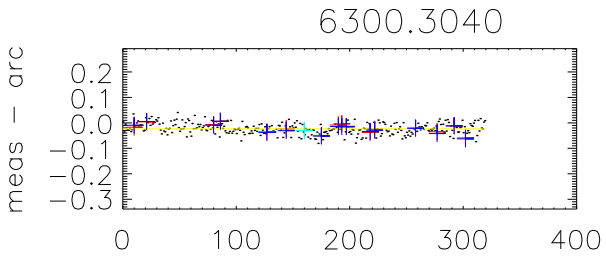

PLATE=0727 MJD=52207 Scattered Light before halo removal on sdR-r2-00011509.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.150
Max value = 10.010
Mon Feb 25 17:17:14 2008

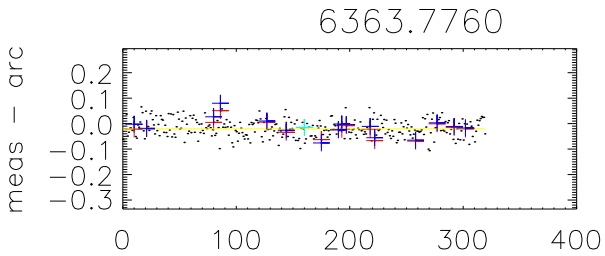

PLATE=0727 MJD=52207 Scattered Light on sdR-r2-00011509.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
2.18
2.18
2.18
2.18
2.18
2.18
2.18
2.18
3.64

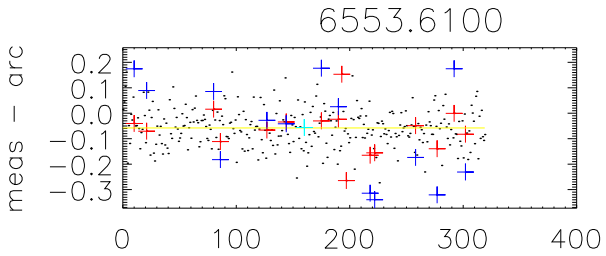

PLATE=0727 MJD=52207 Scattered Light on sdR-r2-00011509.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.076
Max value = 2.967
Mon Feb 25 17:20:07 2008

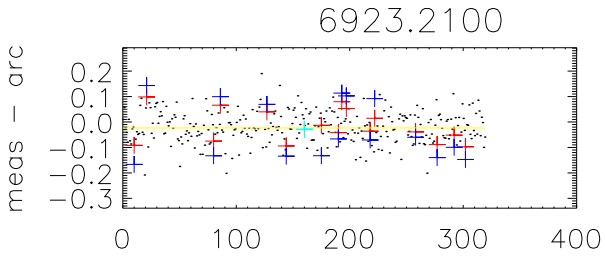

PLATE=0727 MJD=52207 Extraction chi^2 for sdR−r2−00011509.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

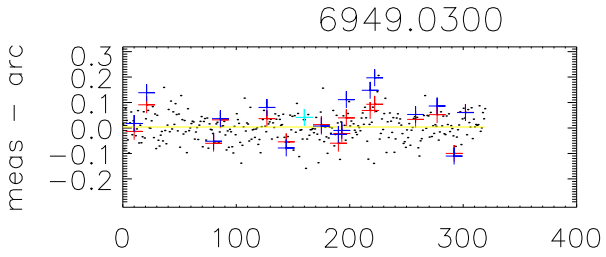

6300.3040
off: −0.03
sig: 0.005
6363.7760
off: −0.02
sig: 0.010
6555.6100
off: −0.06
sig: 0.049
6923.2100
off: −0.03
sig: 0.025
6949.0300
off: 0.04
sig: 0.021
7571.7500
off: 0.04
sig: 0.021
7794.1200
off: −0.10
sig: 0.010
7821.5100
off: −0.06
sig: 0.008
8399.1600
off: −0.02
sig: 0.007
8430.1700
off: −0.04
sig: 0.007
8885.8300
off: −0.09
sig: 0.007
8919.6100
off: −0.00
sig: 0.006

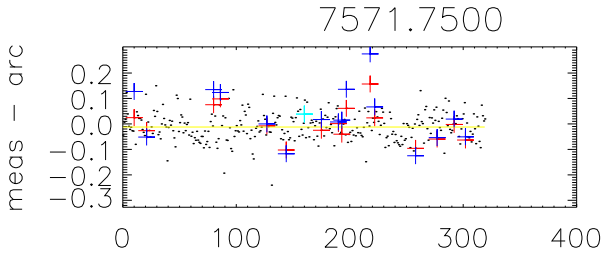

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

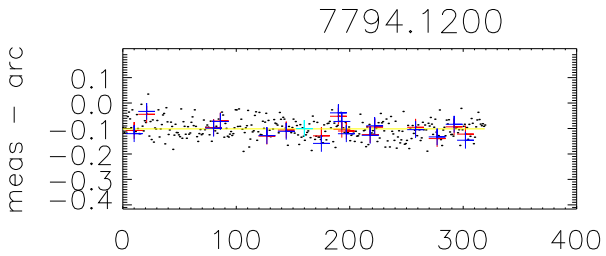

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

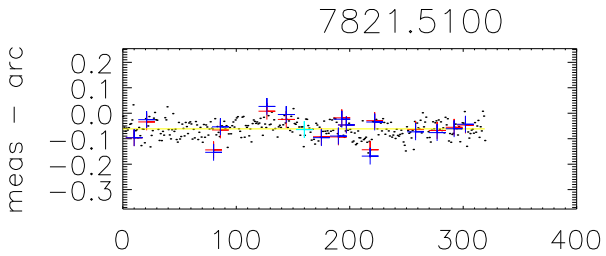

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

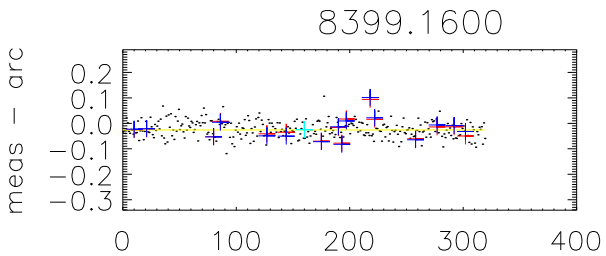

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

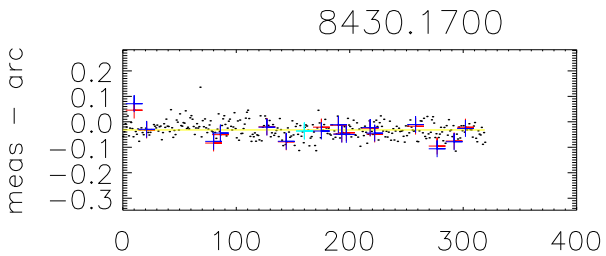

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

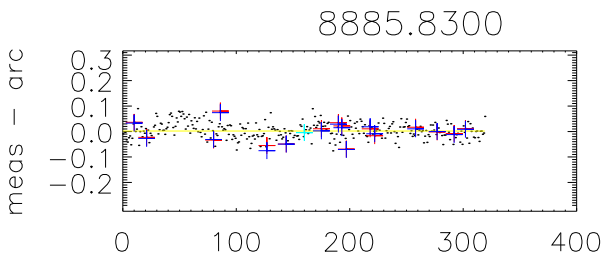

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

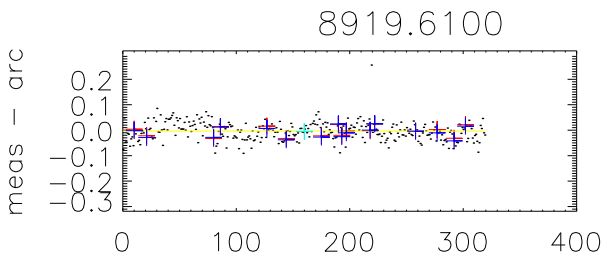

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

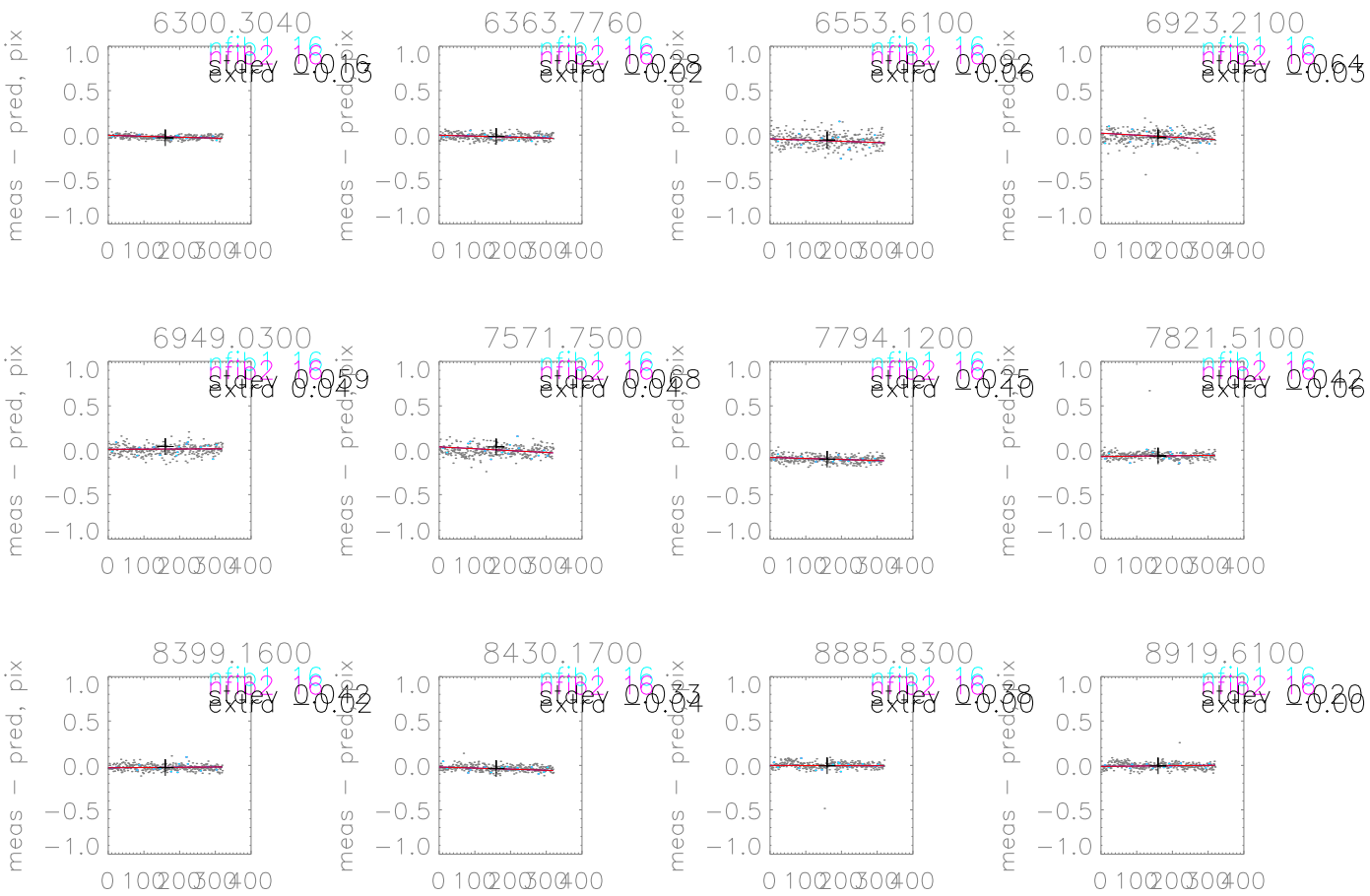

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

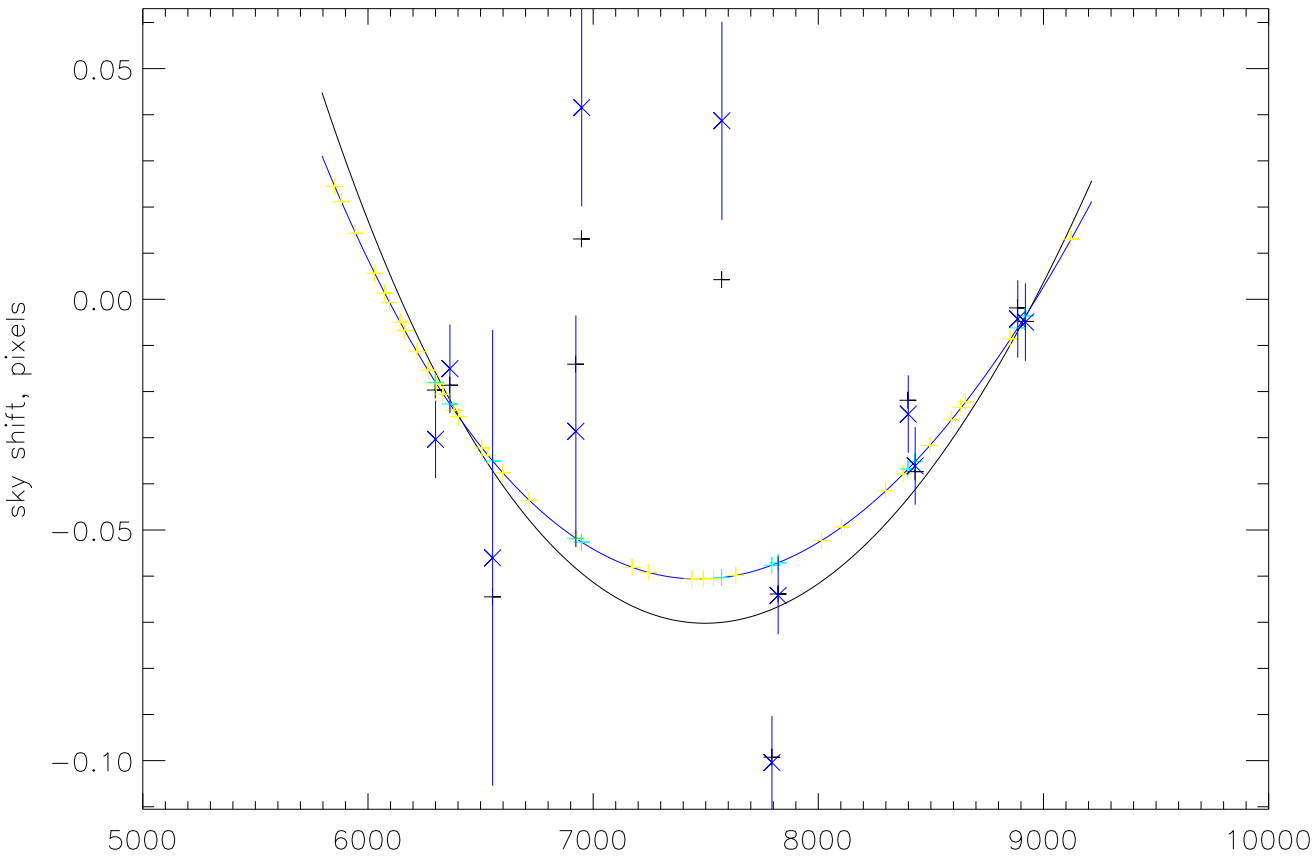

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

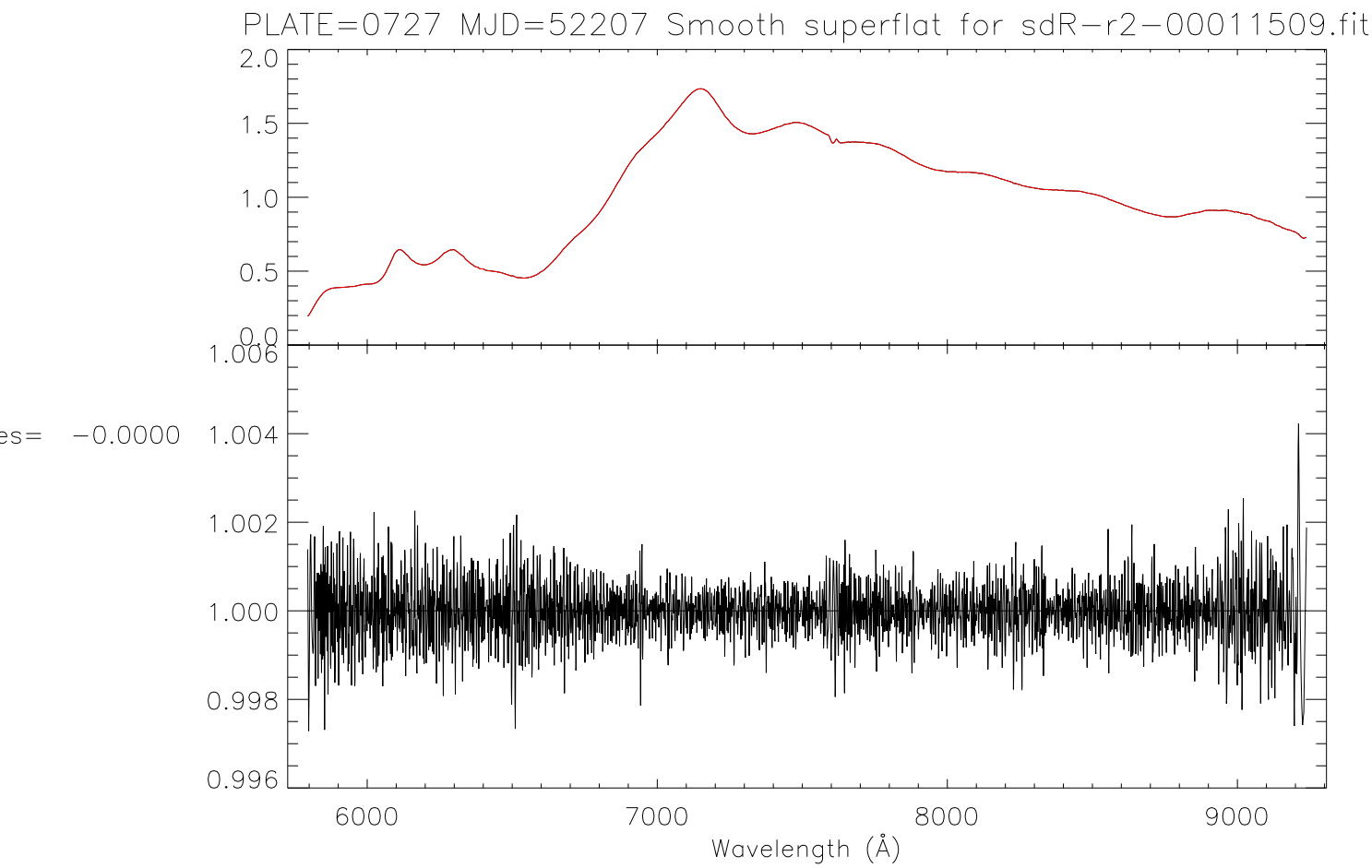

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

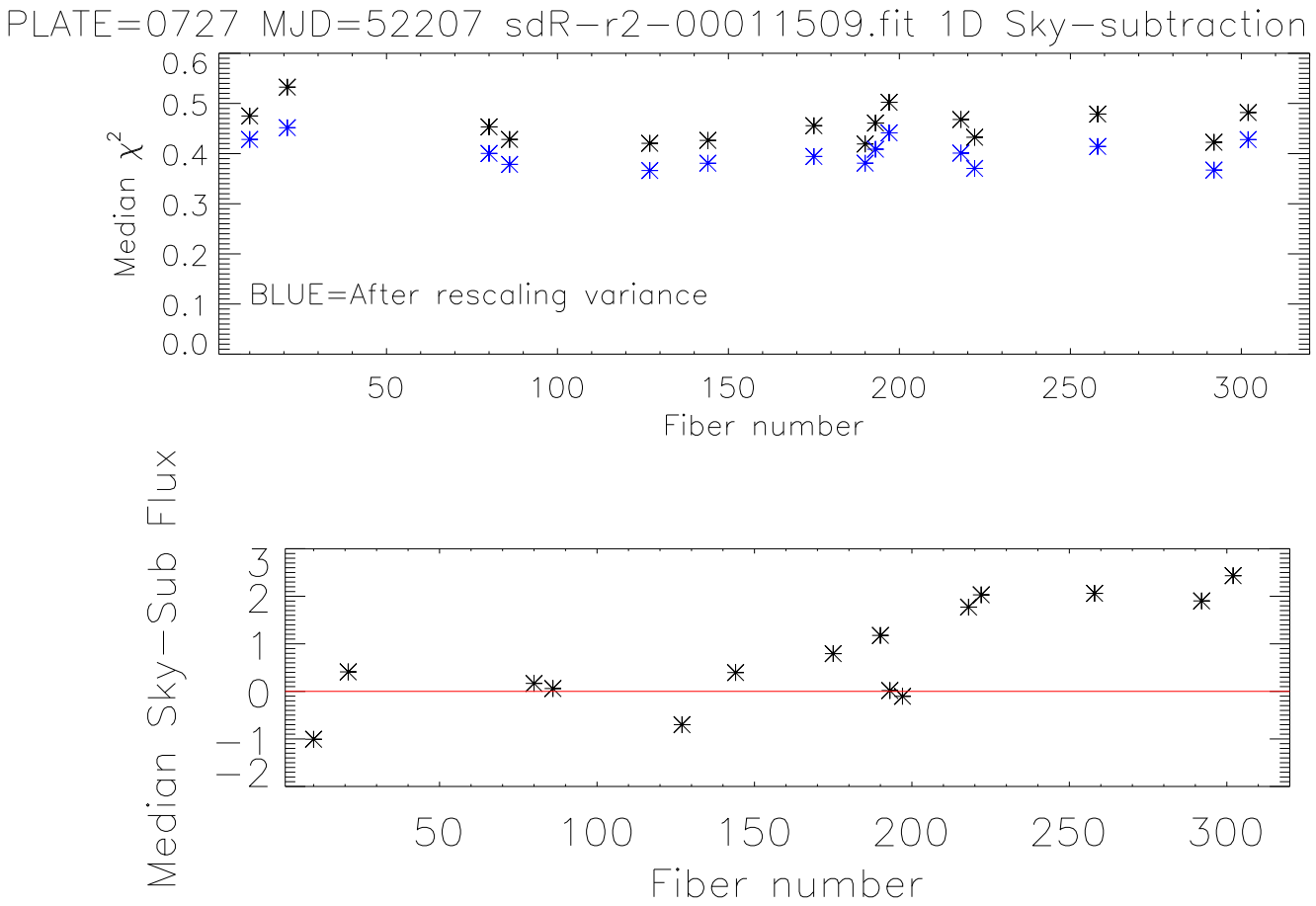

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

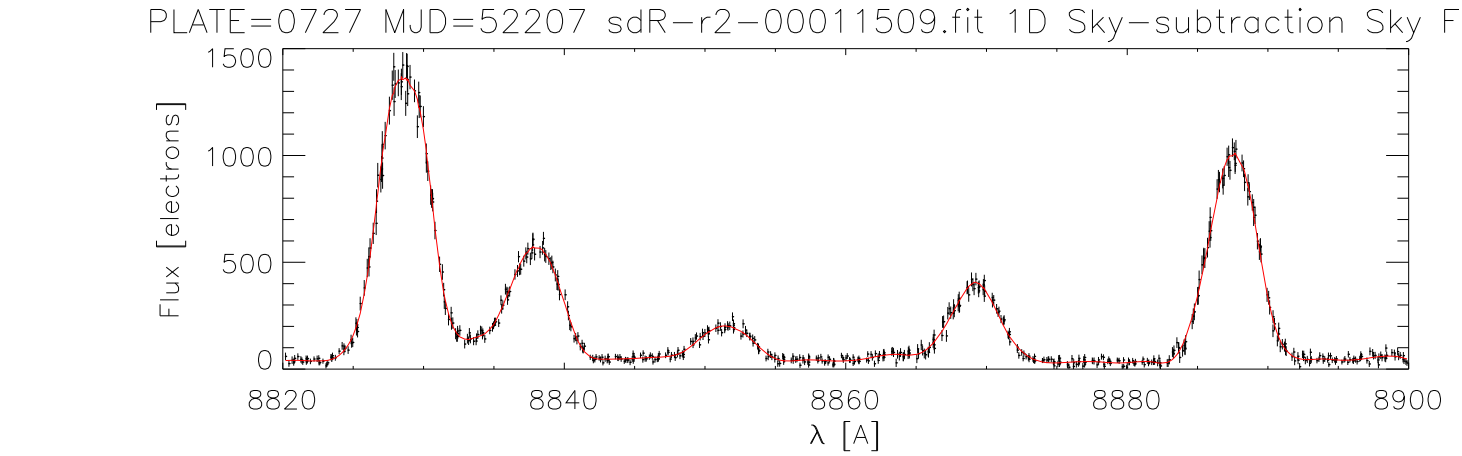

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

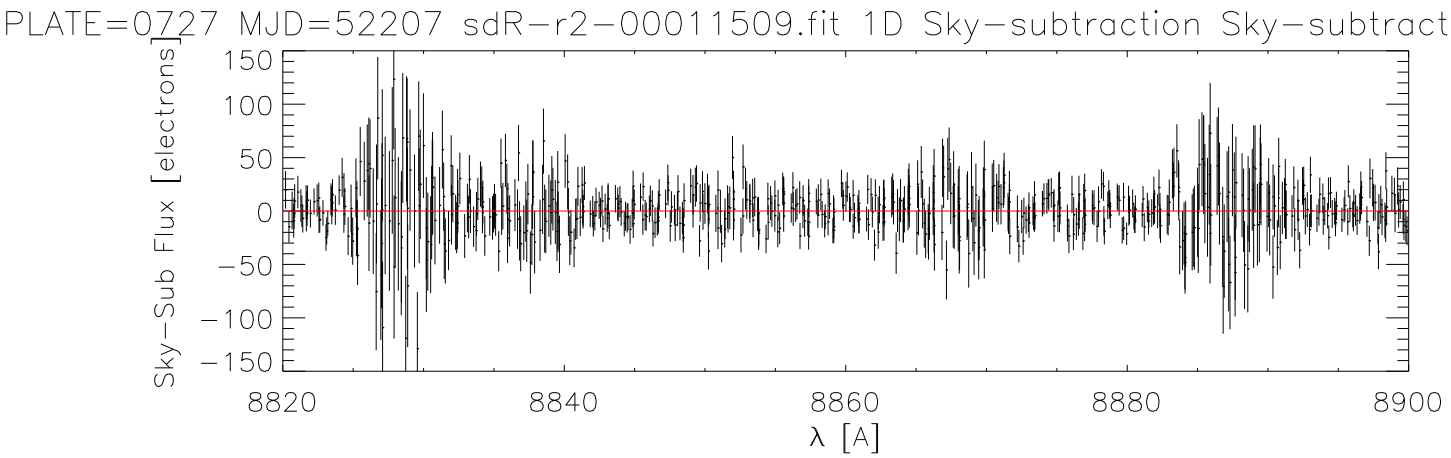

6300.3040
stdev 0.016
extra 0.03
6363.7760
stdev 0.028
extra 0.02
6553.6100
stdev 0.092
extra 0.06
6923.2100
stdev 0.064
extra 0.03
6949.0300
stdev 0.059
extra 0.04
7571.7500
stdev 0.068
extra 0.04
7794.1200
stdev 0.025
extra 0.40
7821.5100
stdev 0.042
extra 0.06
8399.1600
stdev 0.042
extra 0.02
8430.1700
stdev 0.033
extra 0.04
8885.8300
stdev 0.038
extra 0.00
8919.6100
stdev 0.020
extra 0.00
meas − pred, pix
mfhd2 16

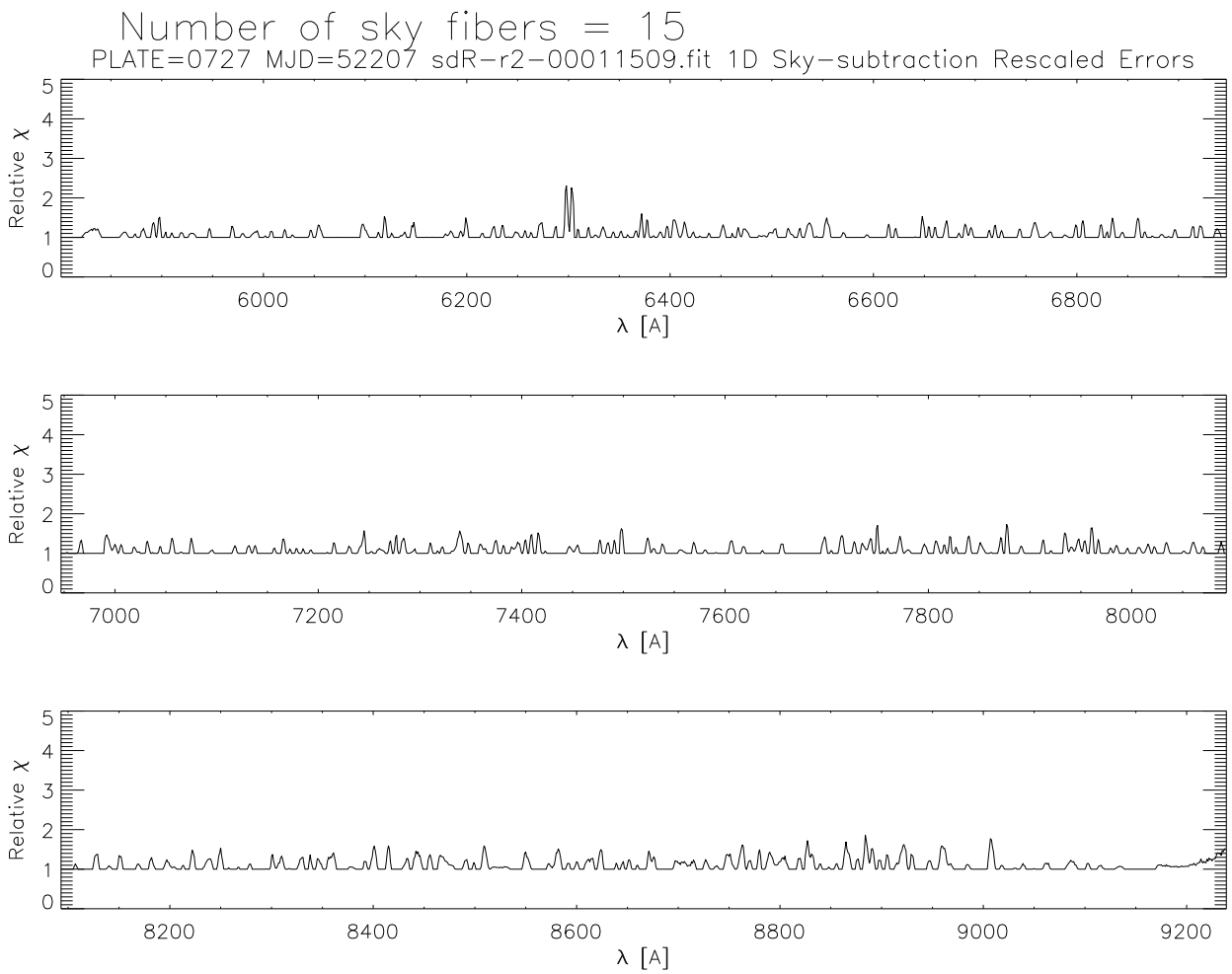

0.05
0.00
−0.05
−0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

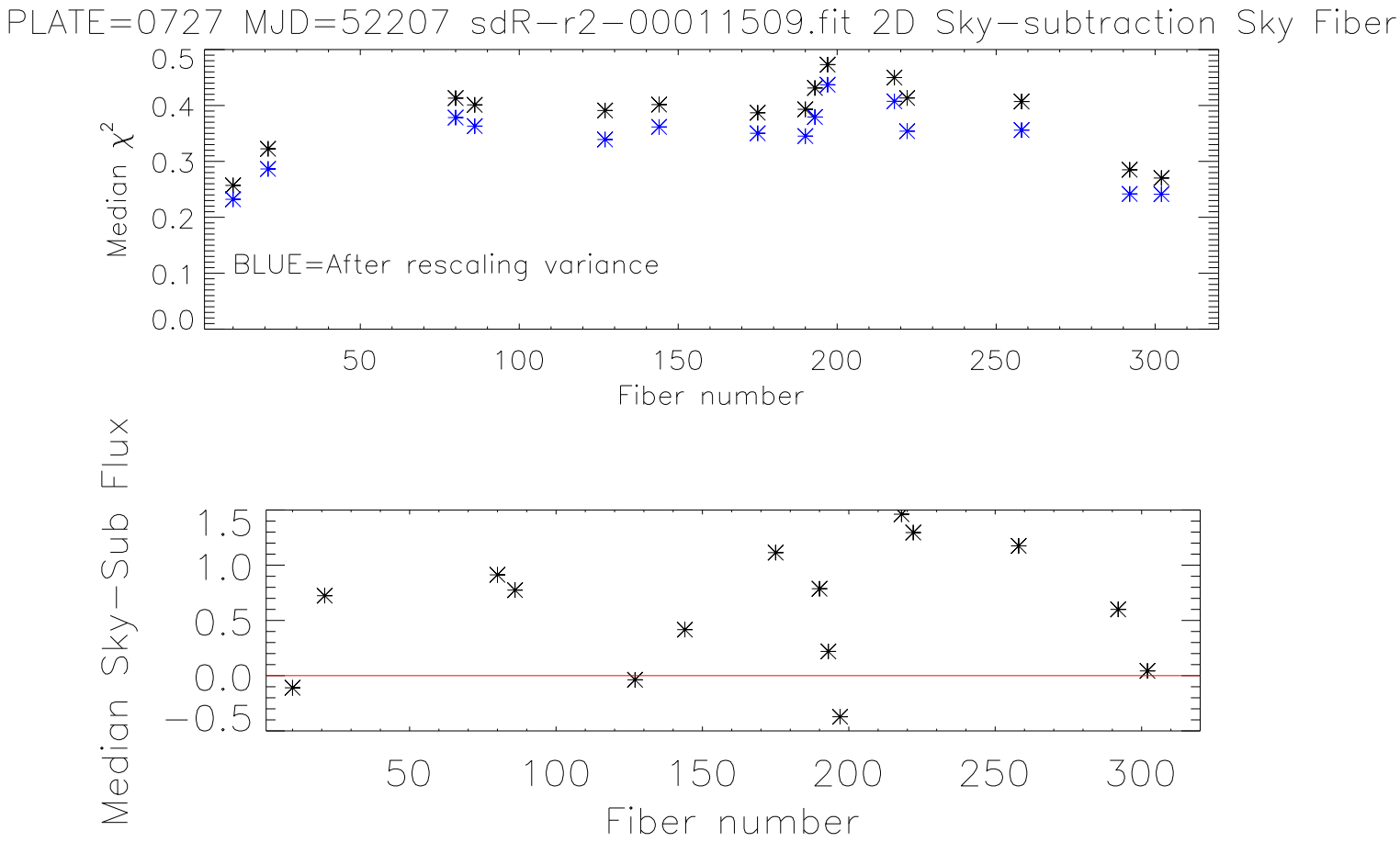

PLATE=0727 MJD=52207 Smooth superflat for sdR-r2-00011509.fit
2.0
1.5
1.0
0.5
0.0
es= −0.0000
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

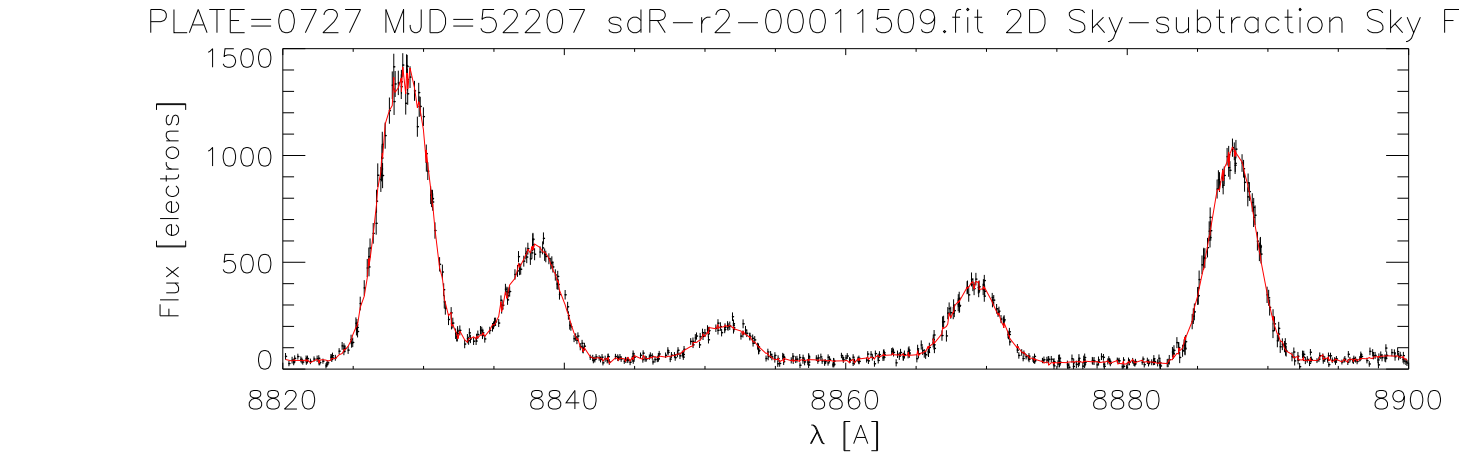

PLATE=0727 MJD=52207 sdR-r2-00011509.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

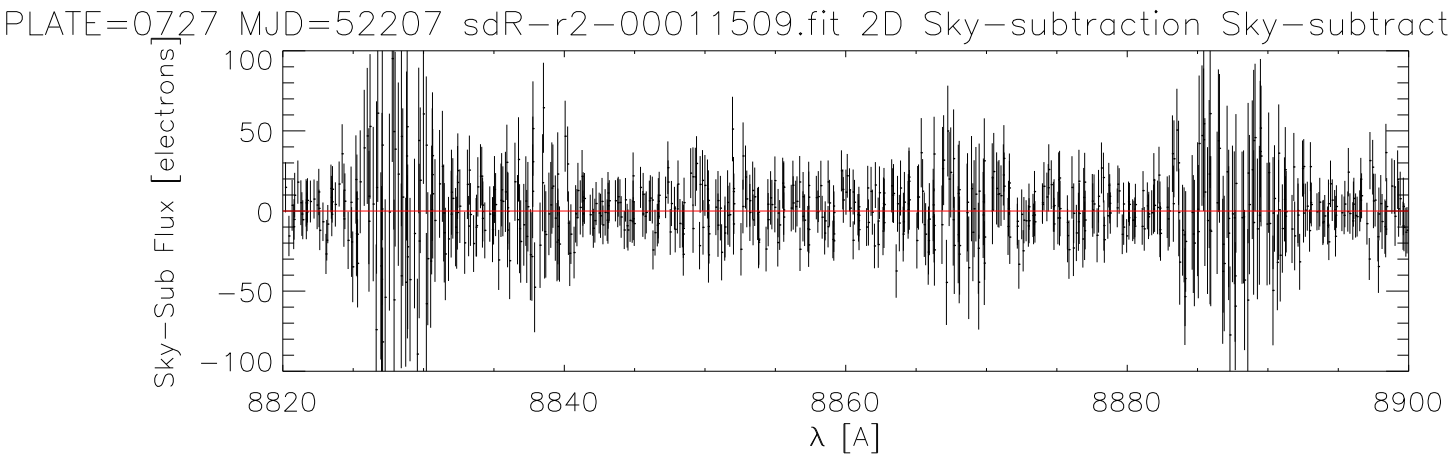

PLATE=0727 MJD=52207 sdR-r2-00011509.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

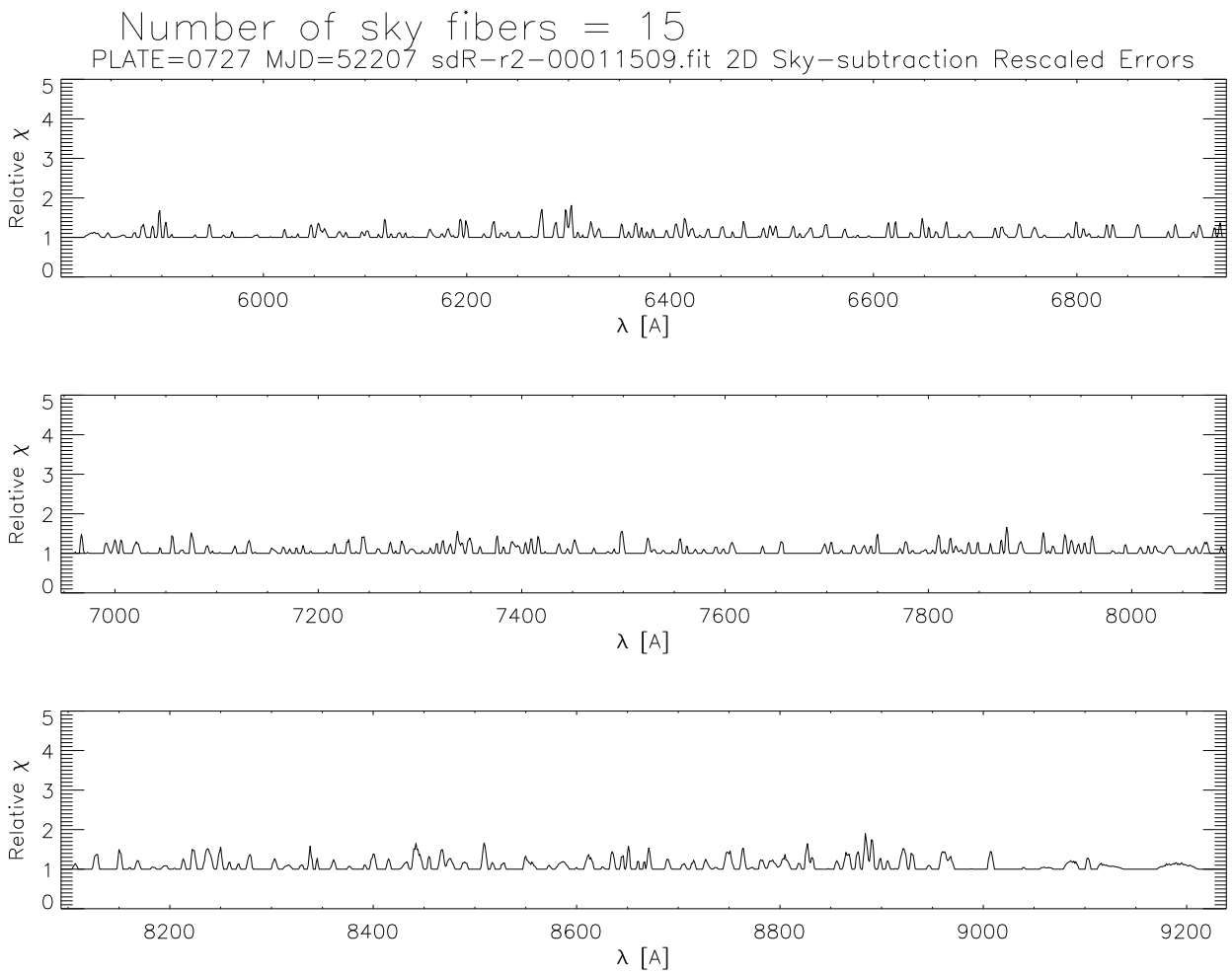

PLATE=0727 MJD=52207 sdR-r2-00011509.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

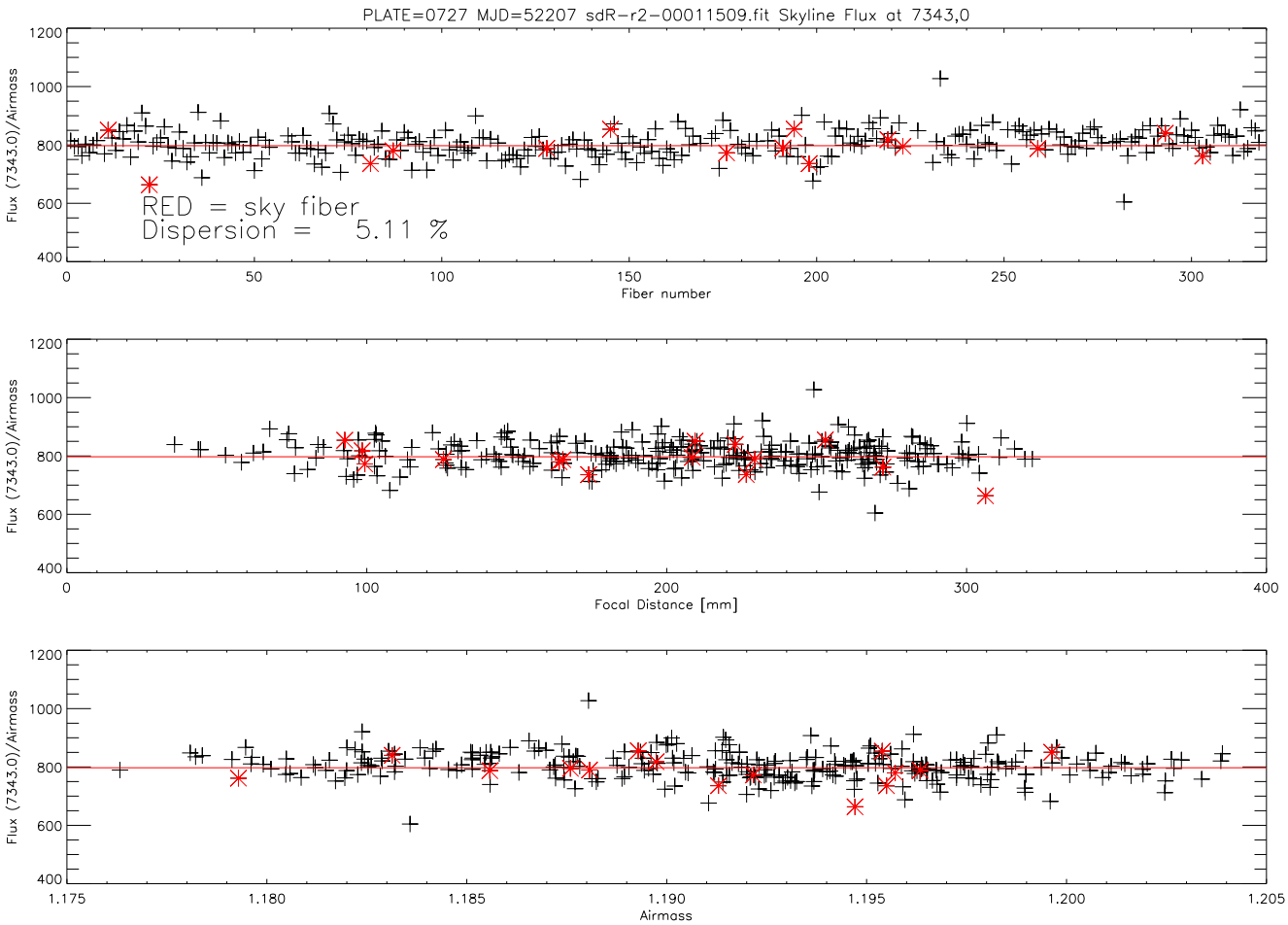

Number of sky fibers = 15
PLATE=0727 MJD=52207 sdR-r2-00011509.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

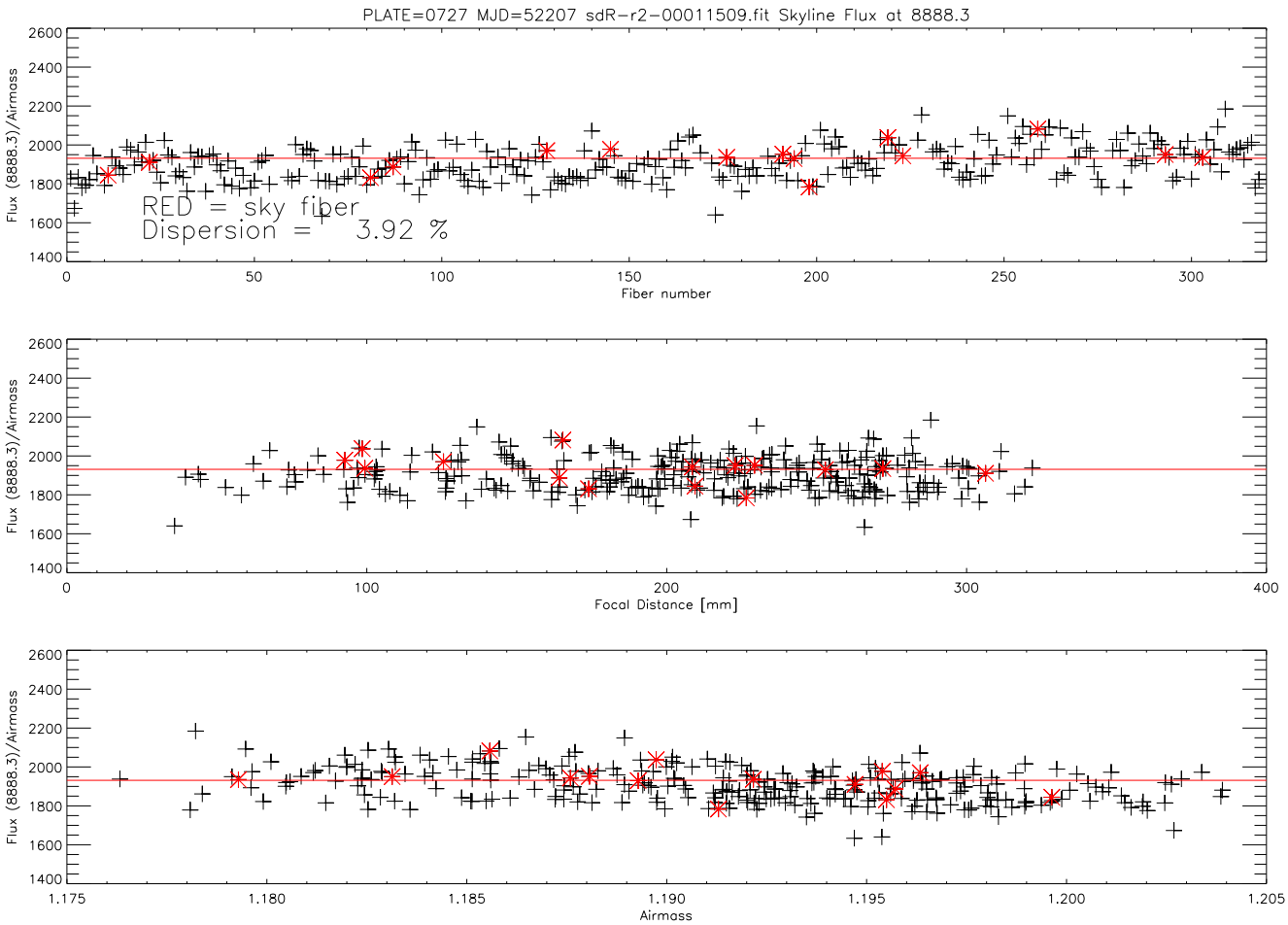

PLATE=0727 MJD=52207 sdR-r2-00011509.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=0727 MJD=52207 sdR-r2-00011509.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]


PLATE=0727 MJD=52207 sdR-r2-00011509.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 = 15
PLATE=0727 MJD=52207 sdR-r2-00011509.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=0727 MJD=52207 sdR-r2-00011509.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 5.11 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=0727 MJD=52207 sdR-r2-00011509.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.92 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass