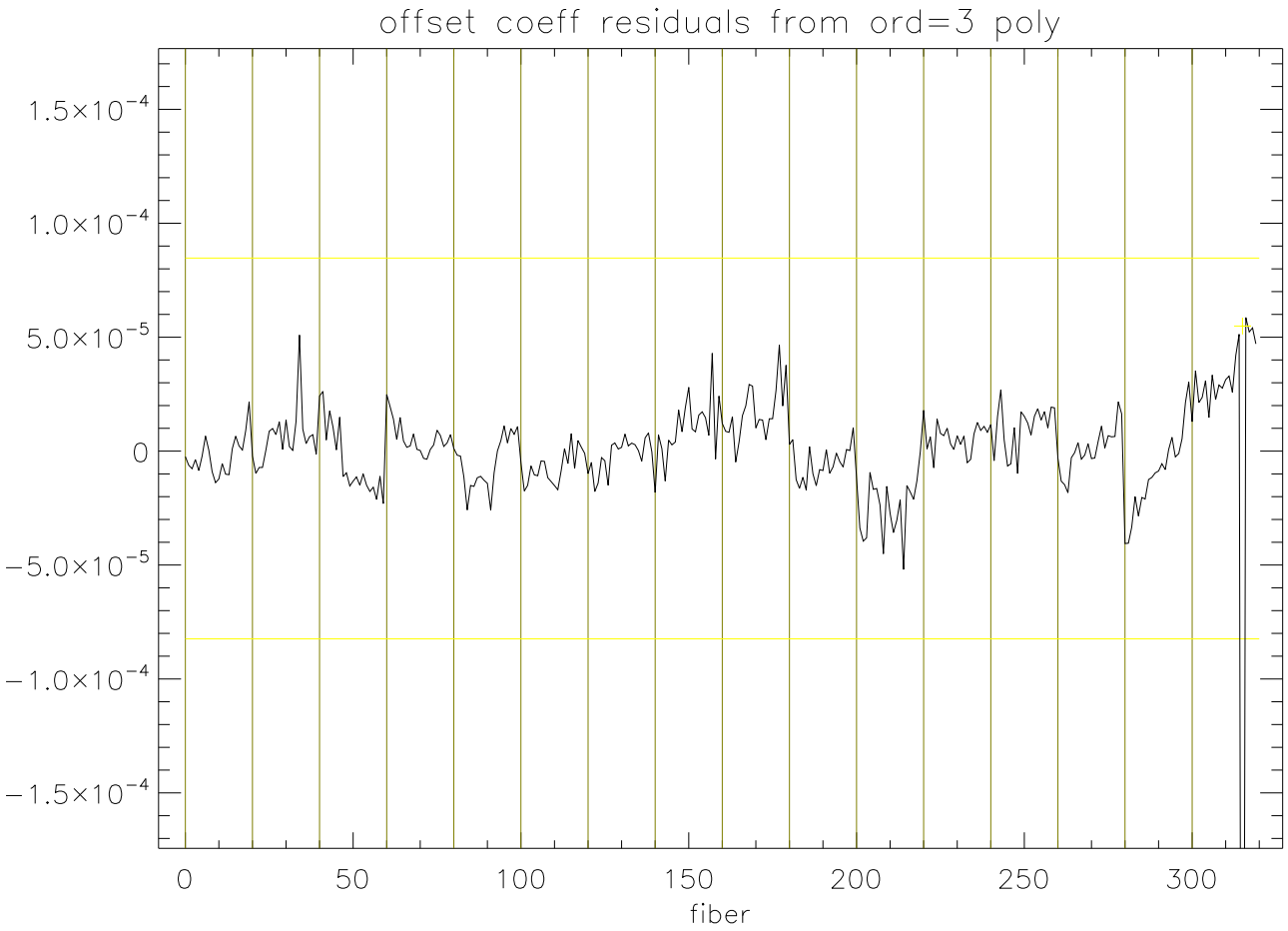
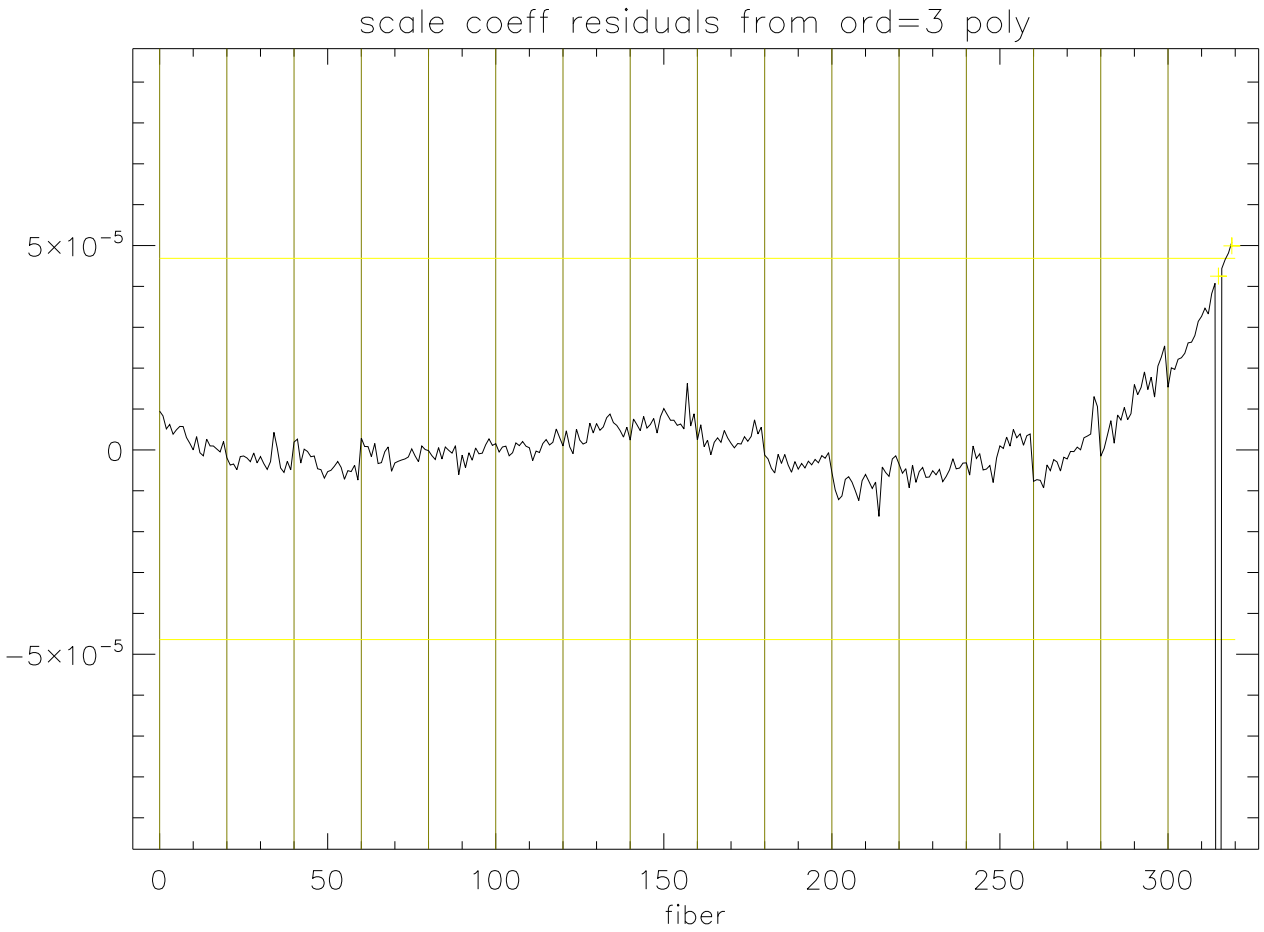
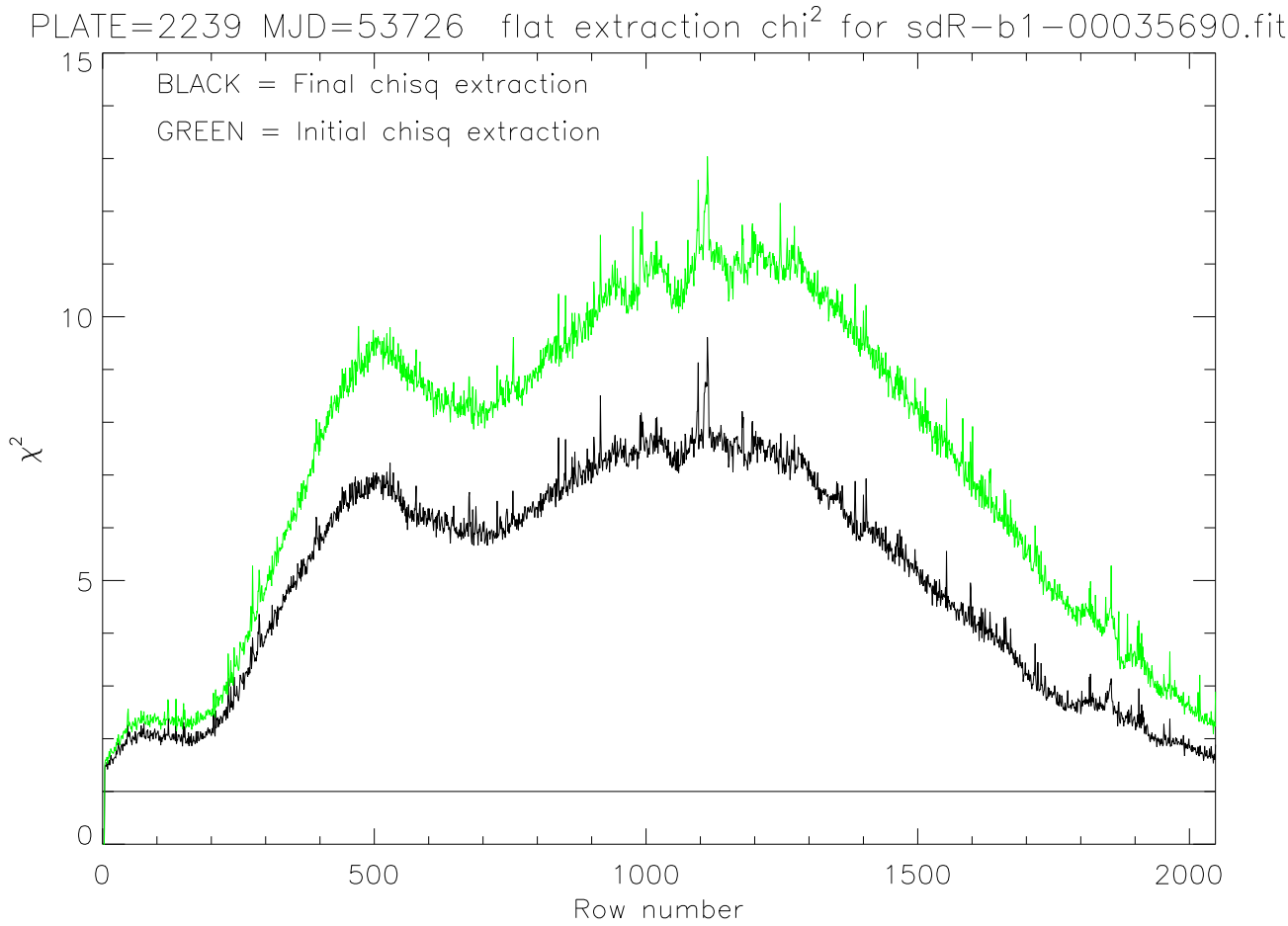
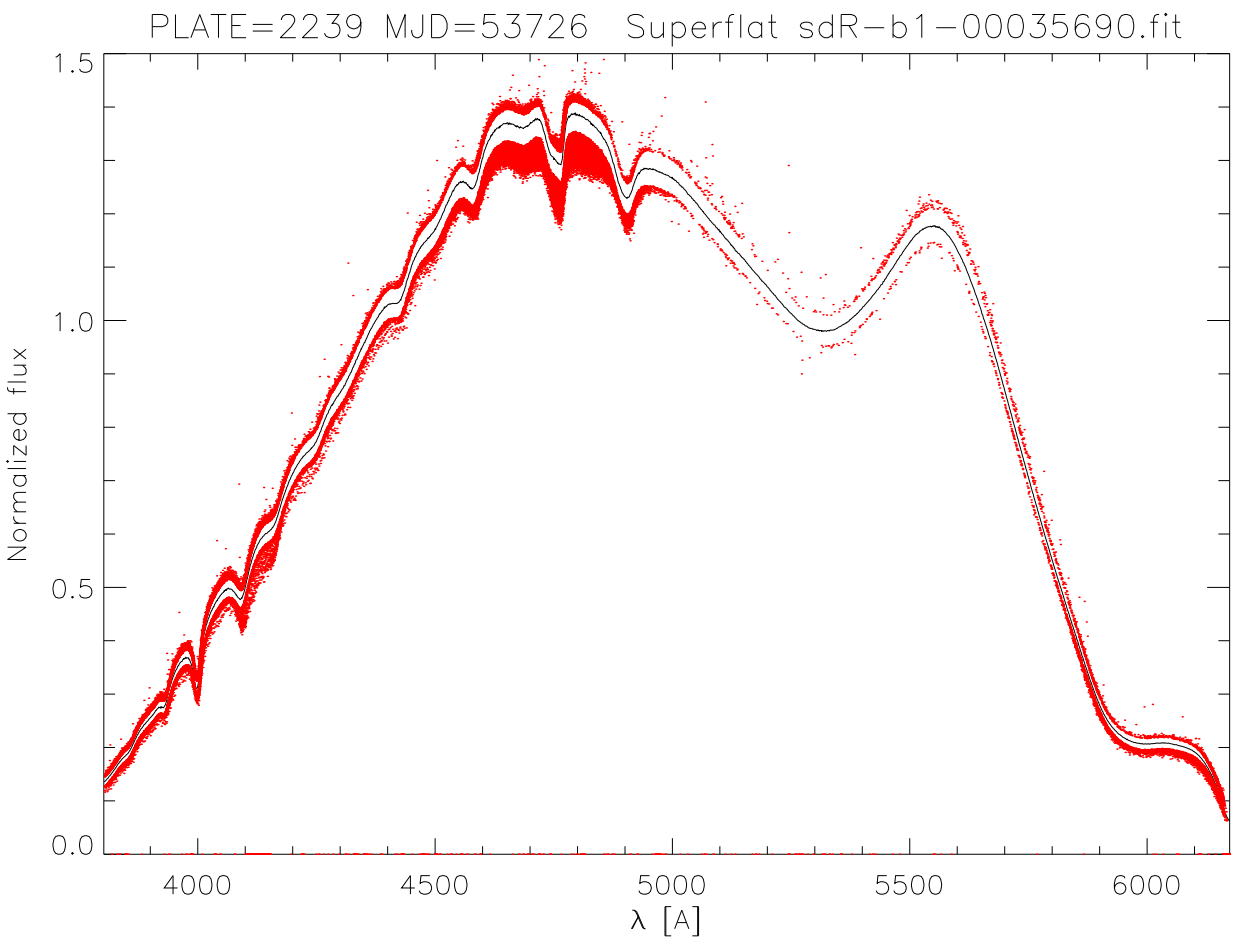
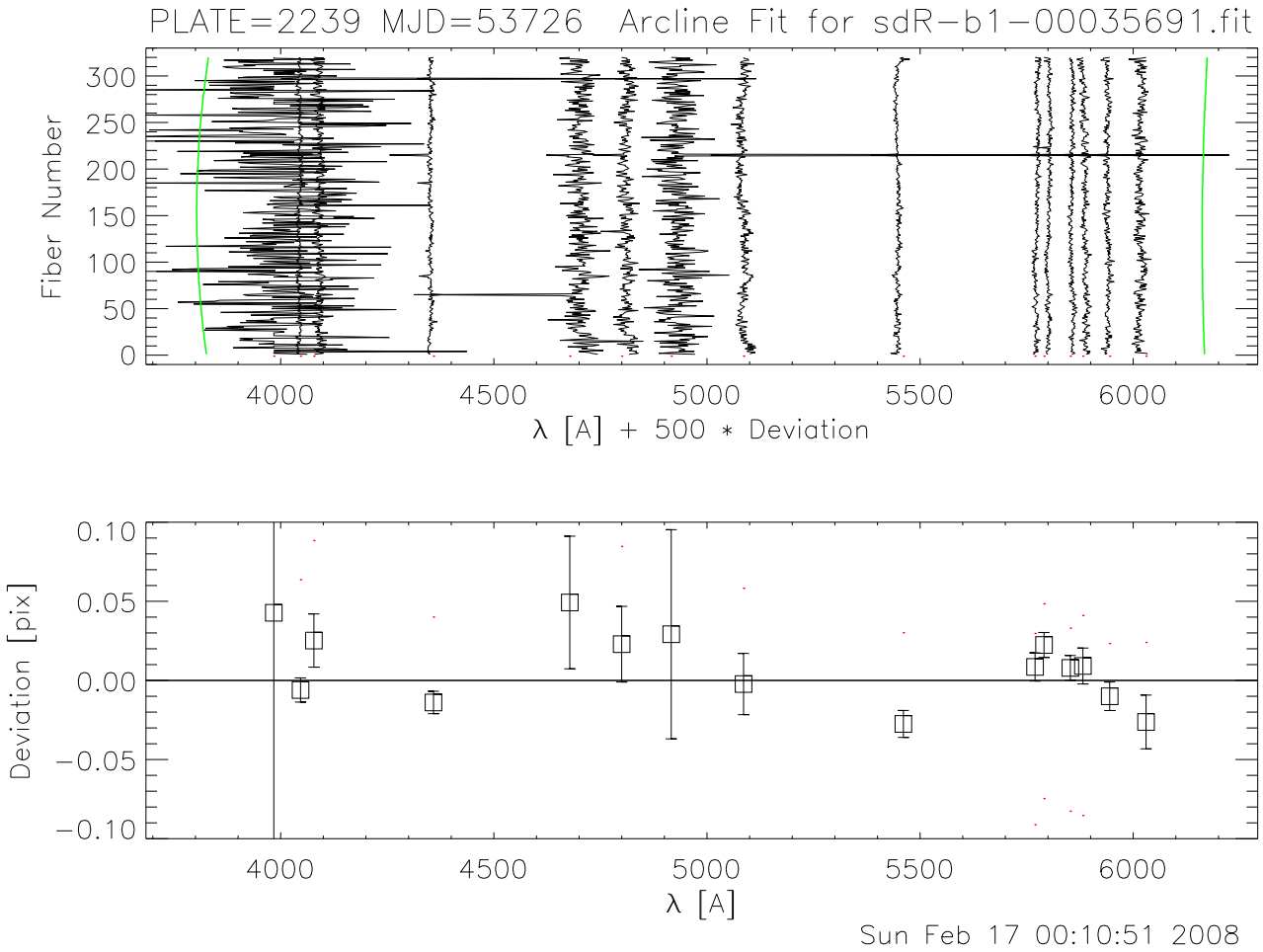
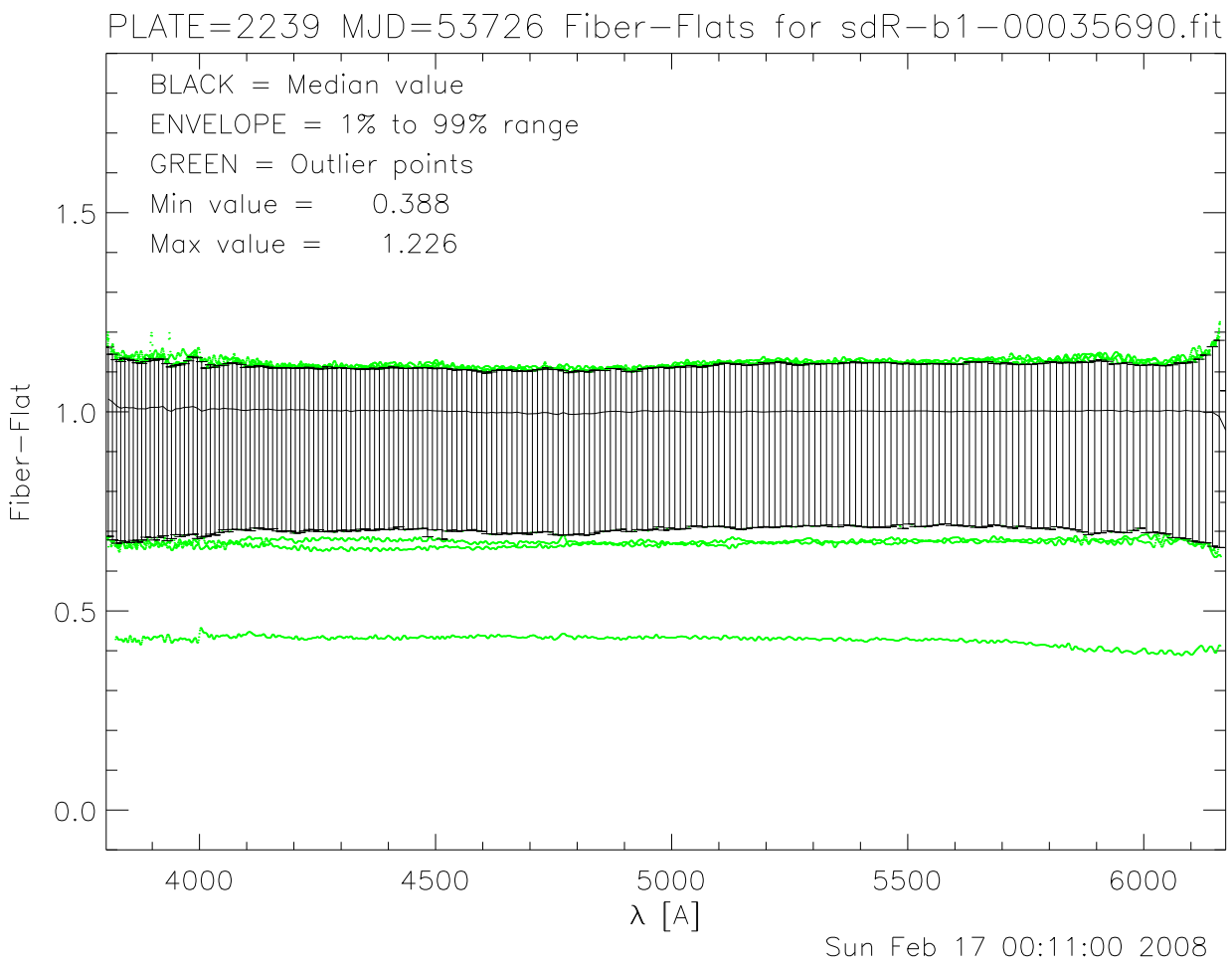

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

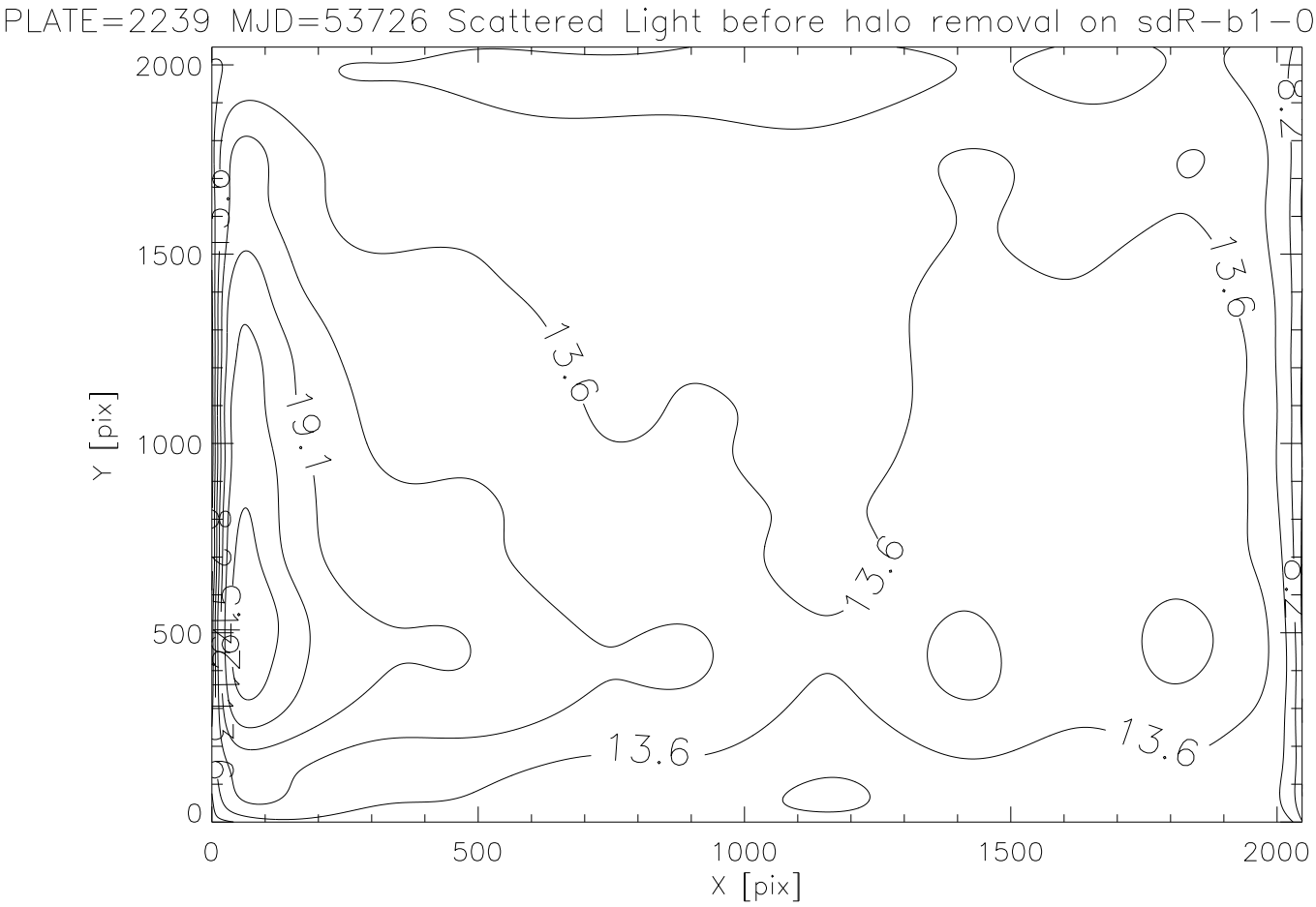

scale coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
0
50
100
150
200
250
300
fiber

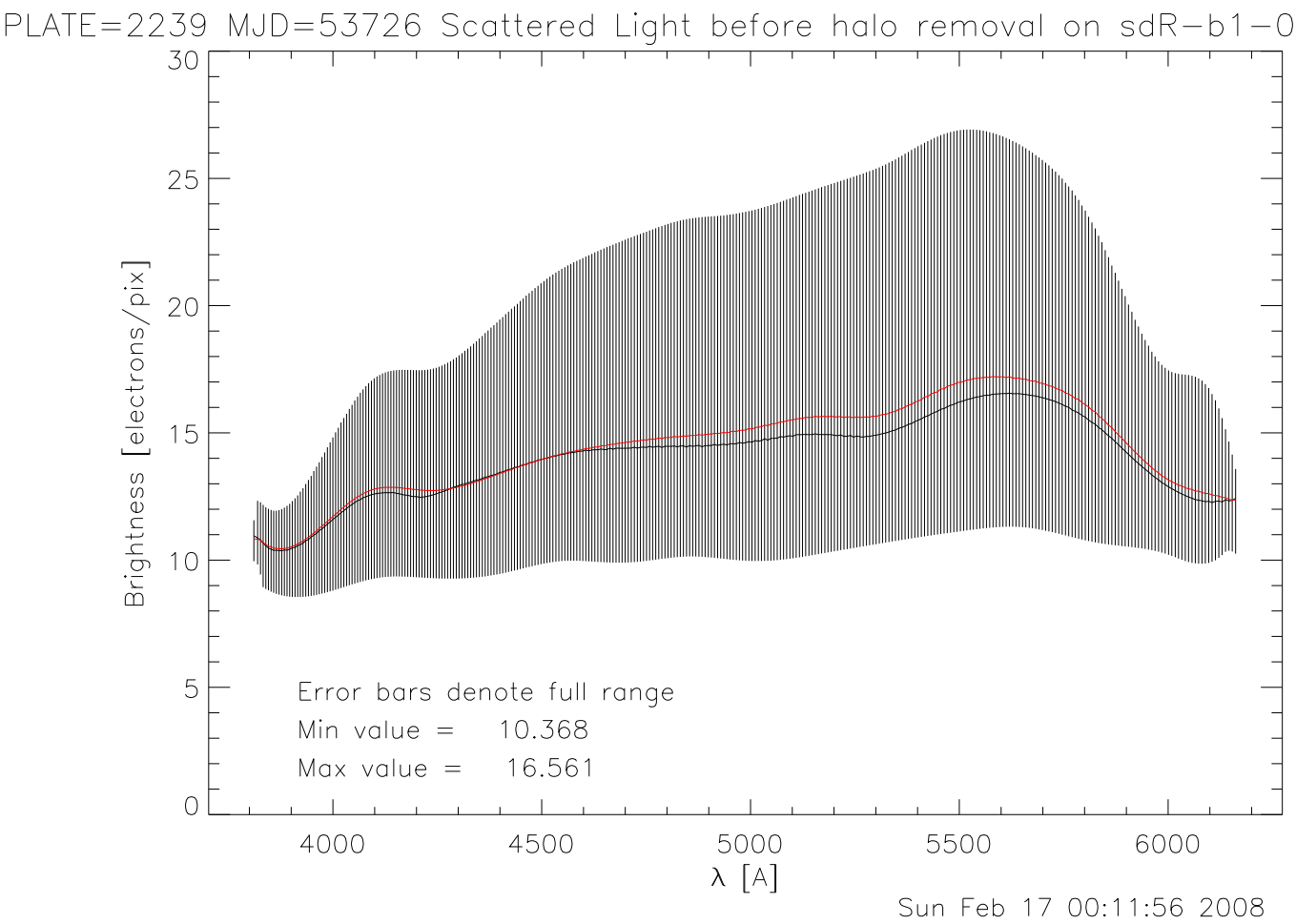

PLATE=2239 MJD=53726 flat extraction chi^2 for sdR−b1−00035690.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

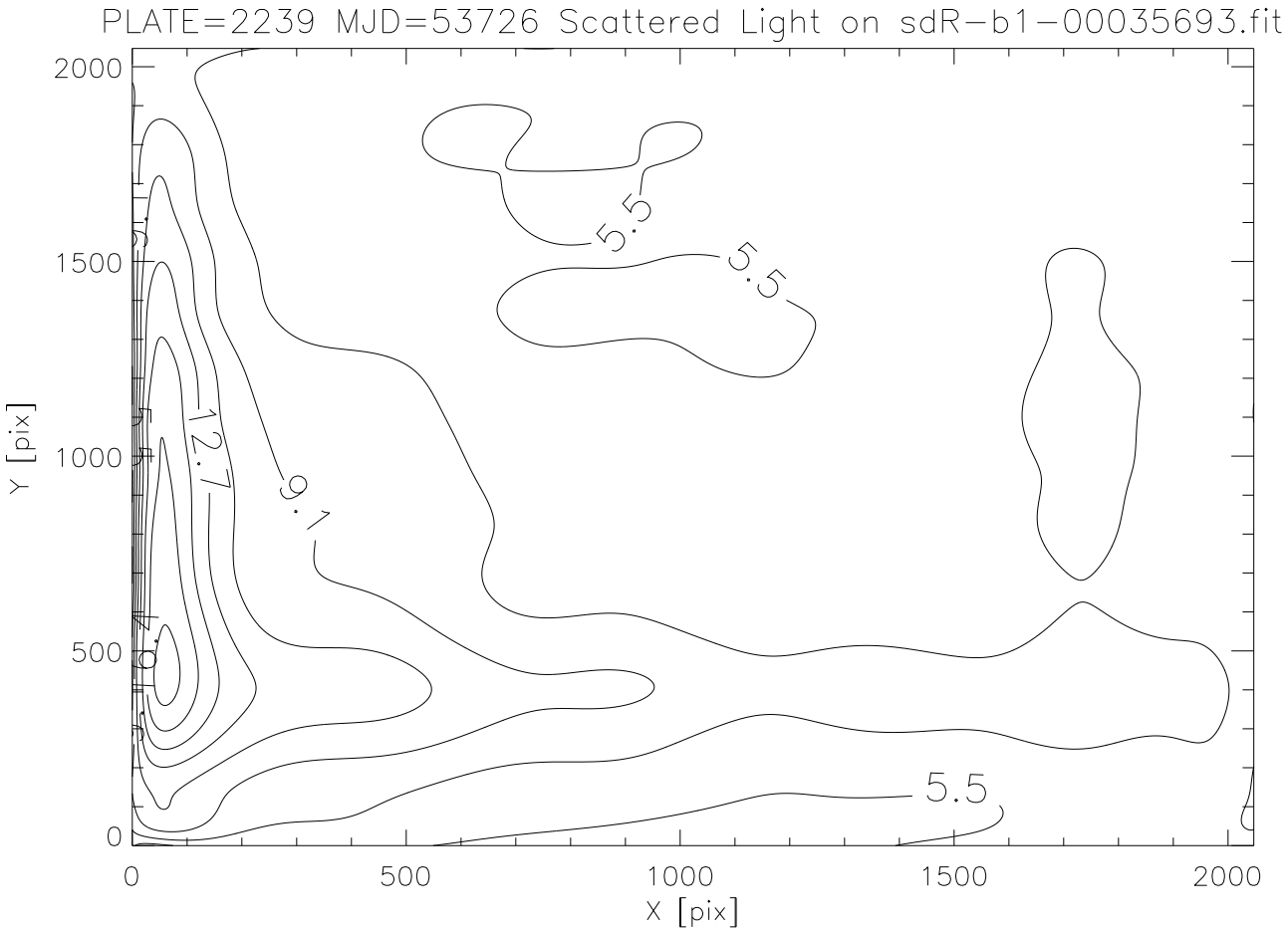

PLATE=2239 MJD=53726 Superflat sdR-b1-00035690.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

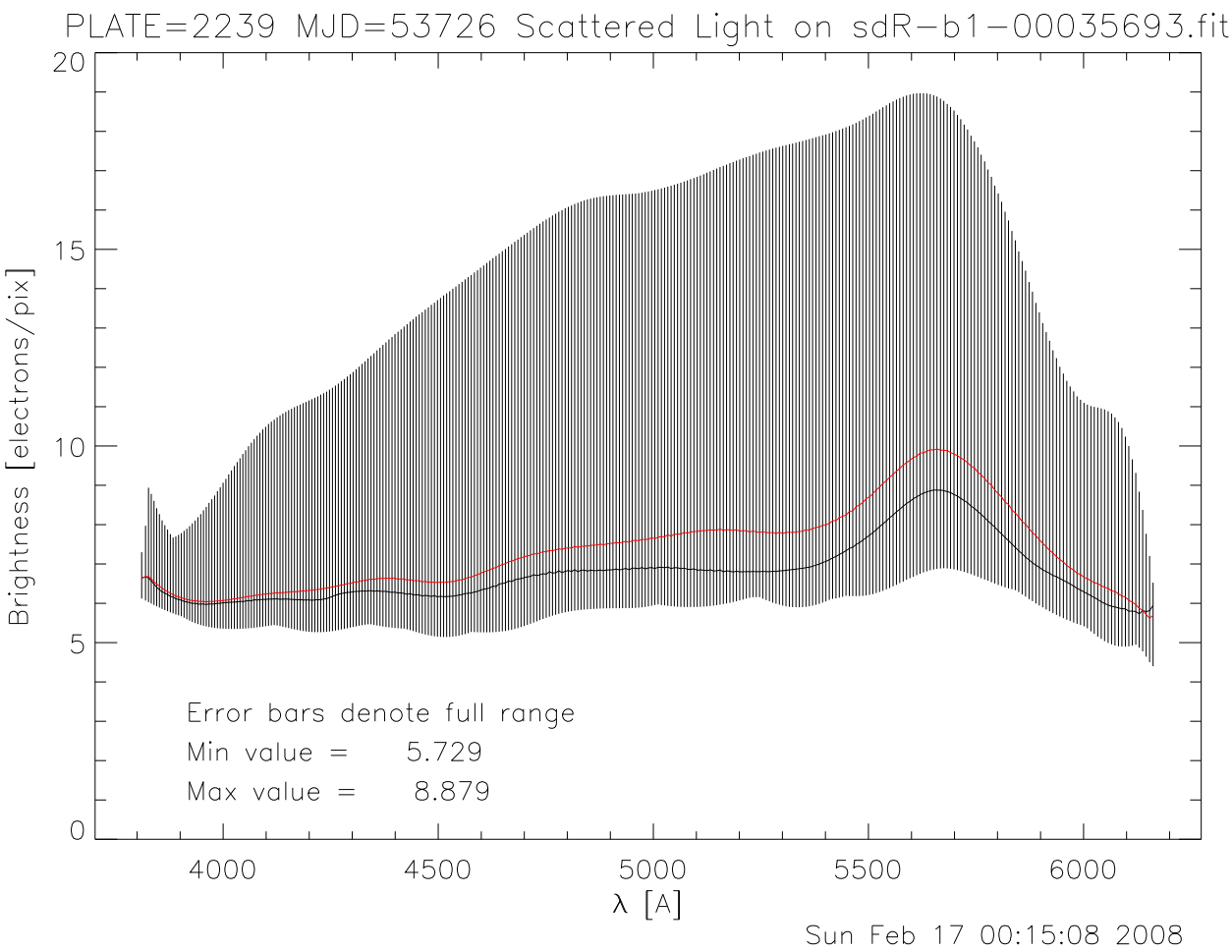

PLATE=2239 MJD=53726 Arcline Fit for sdR-b1-00035691.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sun Feb 17 00:10:51 2008

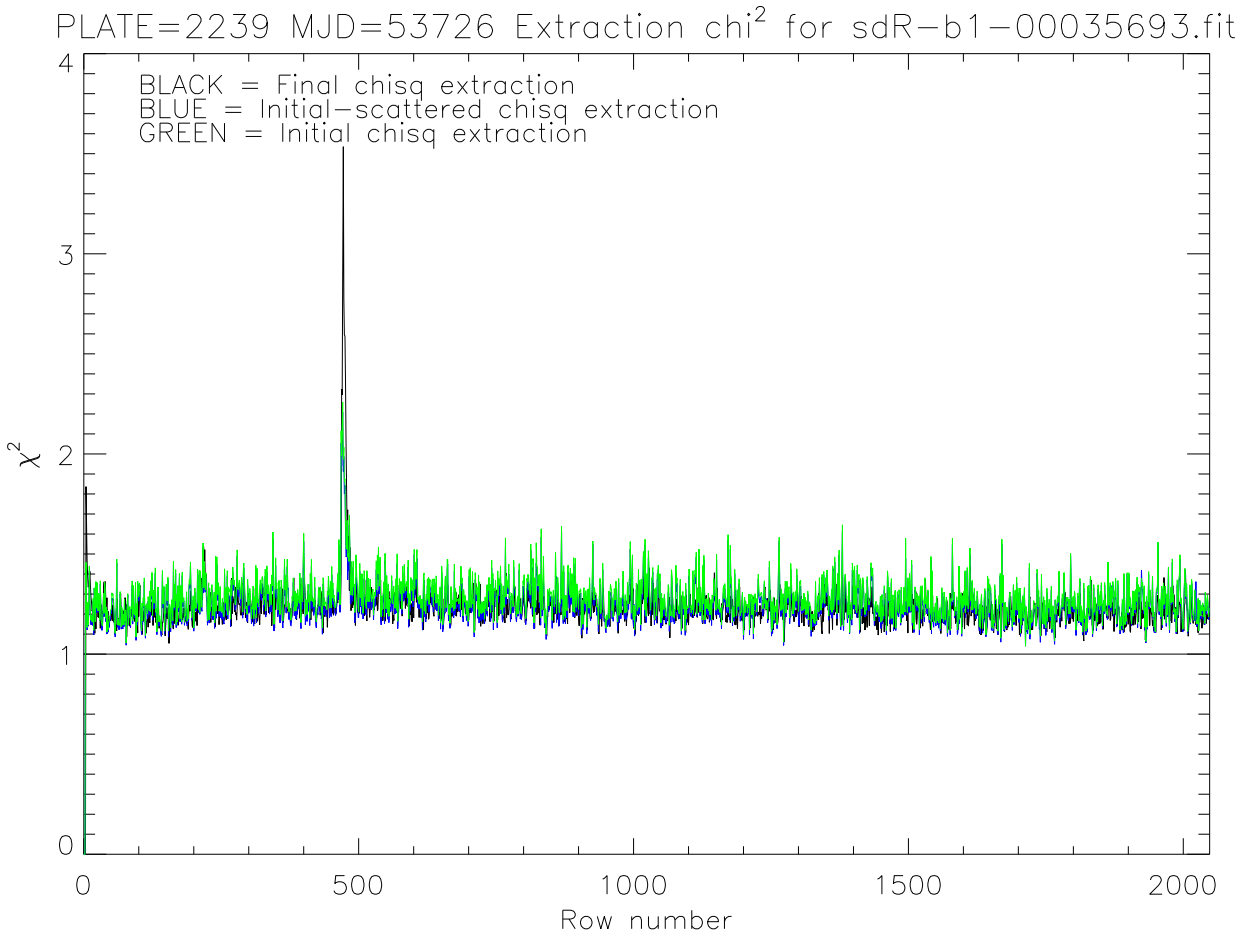

PLATE=2239 MJD=53726 Fiber-Flats for sdR-b1-00035690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.388
Max value = 1.226
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 17 00:11:00 2008

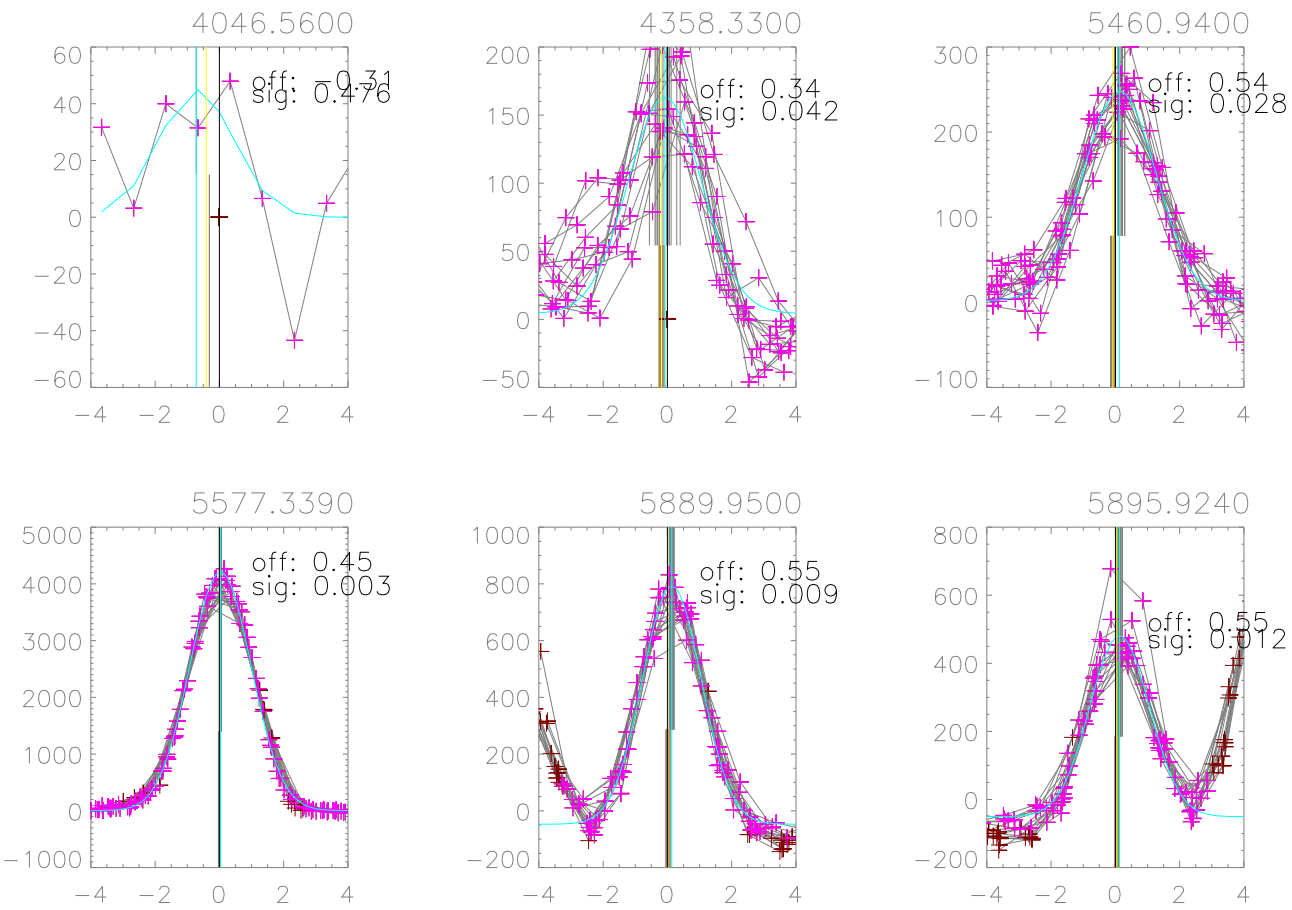

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR−b1−00035693.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
13.6
19.1
13.6
13.6
13.6
13.6
8.7

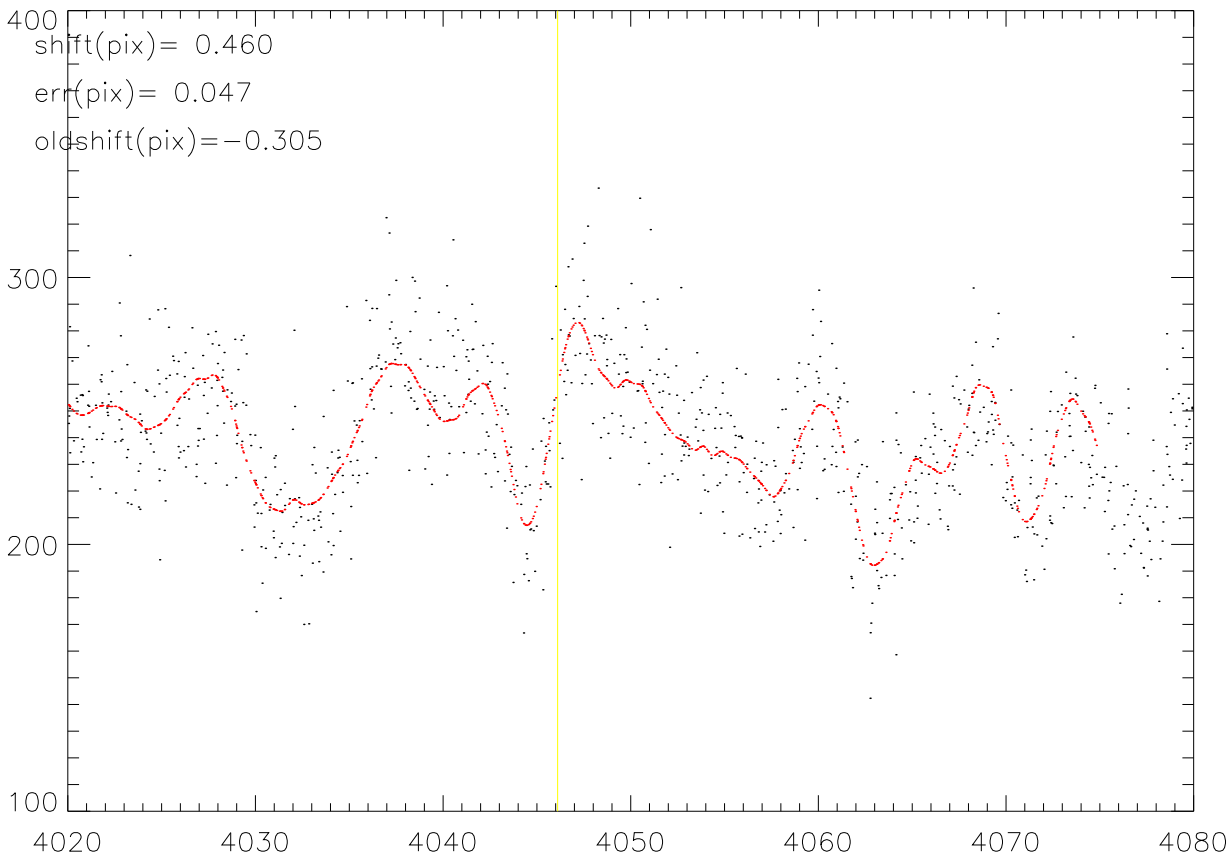

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR-b1-00035693.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.368
Max value = 16.561
Sun Feb 17 00:11:56 2008

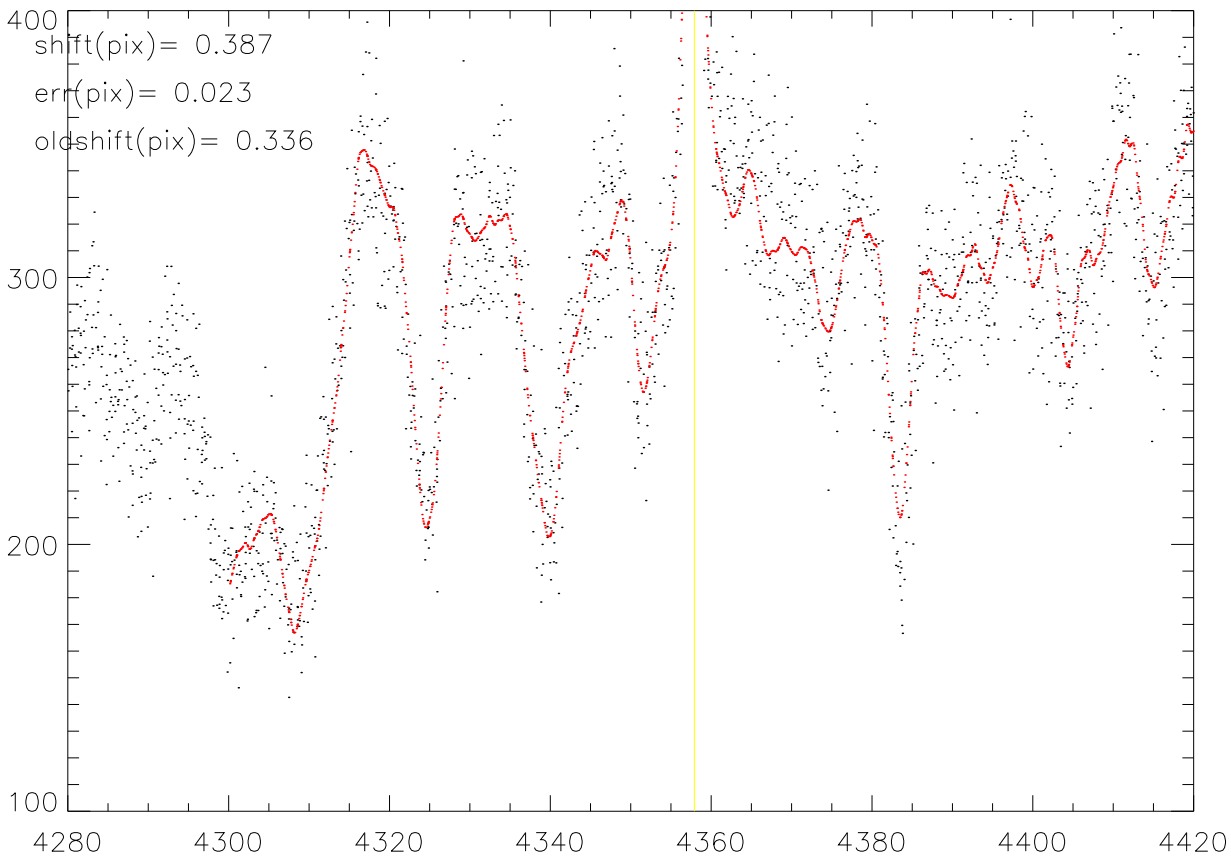

PLATE=2239 MJD=53726 Scattered Light on sdR-b1-00035693.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
5.5
5.5
12.7
9.1
5.5

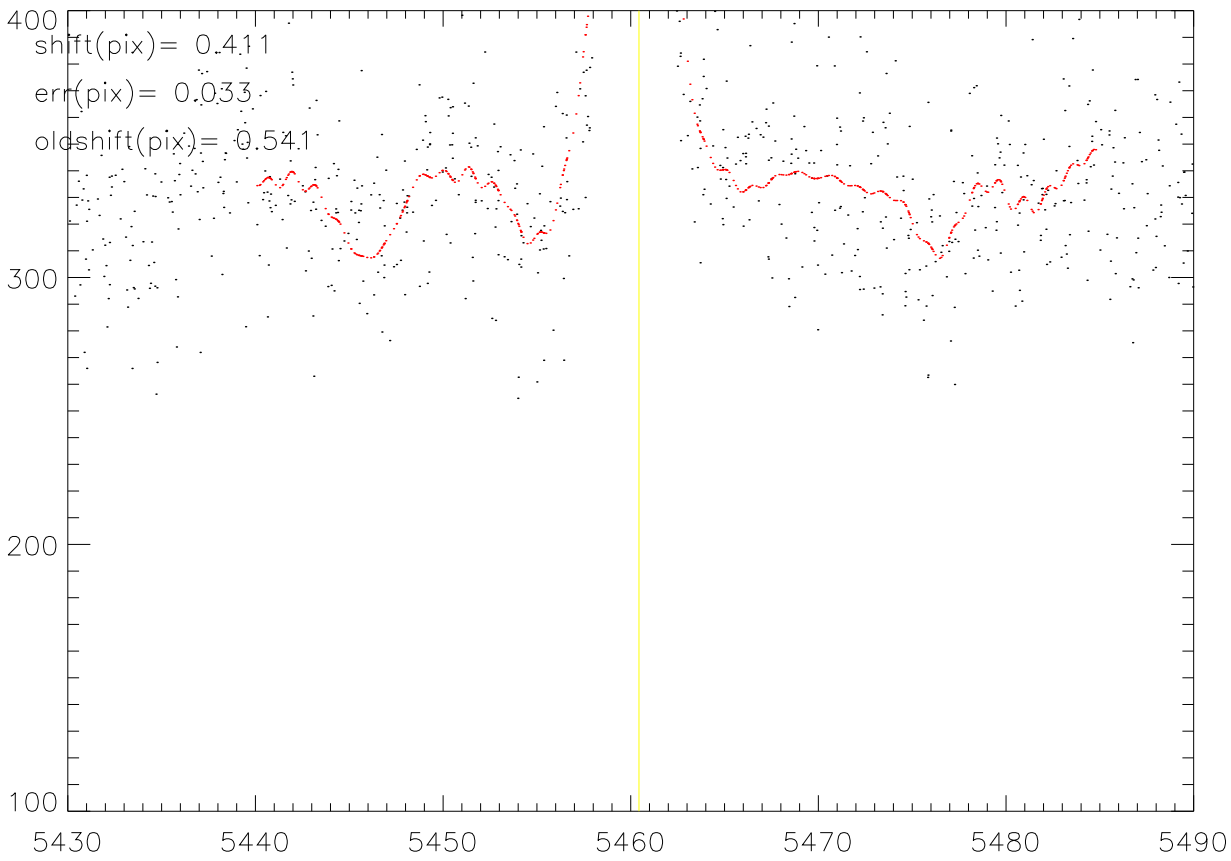

PLATE=2239 MJD=53726 Scattered Light on sdR-b1-00035693.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.729
Max value = 8.879
Sun Feb 17 00:15:08 2008

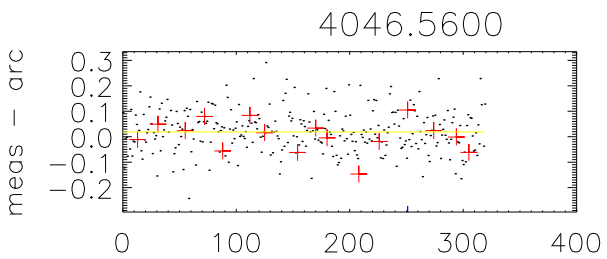

PLATE=2239 MJD=53726 Extraction chi^2 for sdR−b1−00035693.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

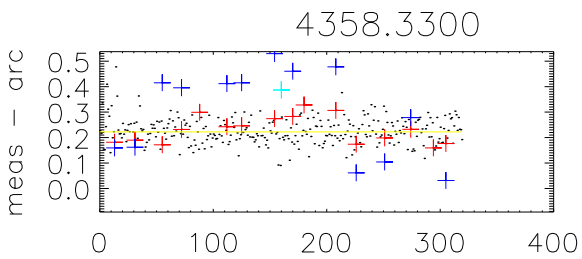

4046.5600
off: −0.31
sig: 0.476
4358.3300
off: 0.34
sig: 0.042
5460.9400
off: 0.54
sig: 0.028
5577.3390
off: 0.45
sig: 0.003
5889.9500
off: 0.55
sig: 0.009
5895.9240
off: 0.55
sig: 0.012

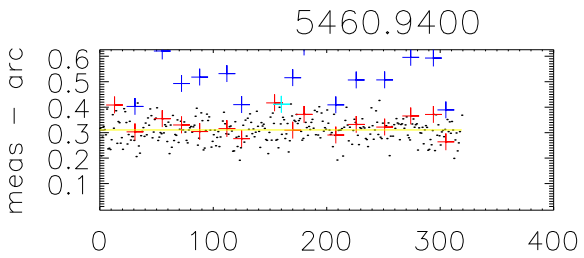

shift(pix)= 0.460
err(pix)= 0.047
oldshift(pix)=-0.305
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

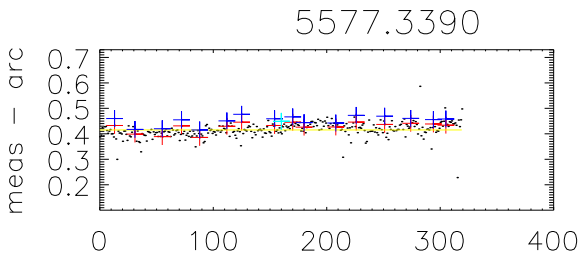

shift(pix)= 0.387
err(pix)= 0.023
oldshift(pix)= 0.336
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

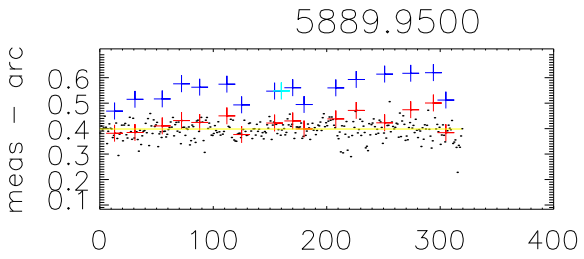

shift(pix)= 0.411
err(pix)= 0.033
oldshift(pix)= 0.541
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

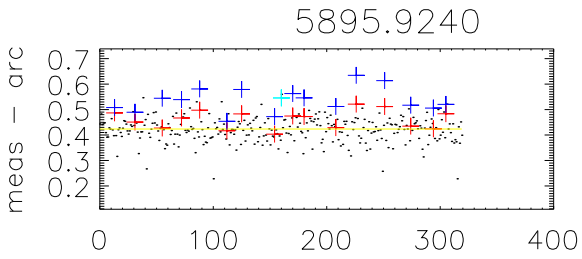

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

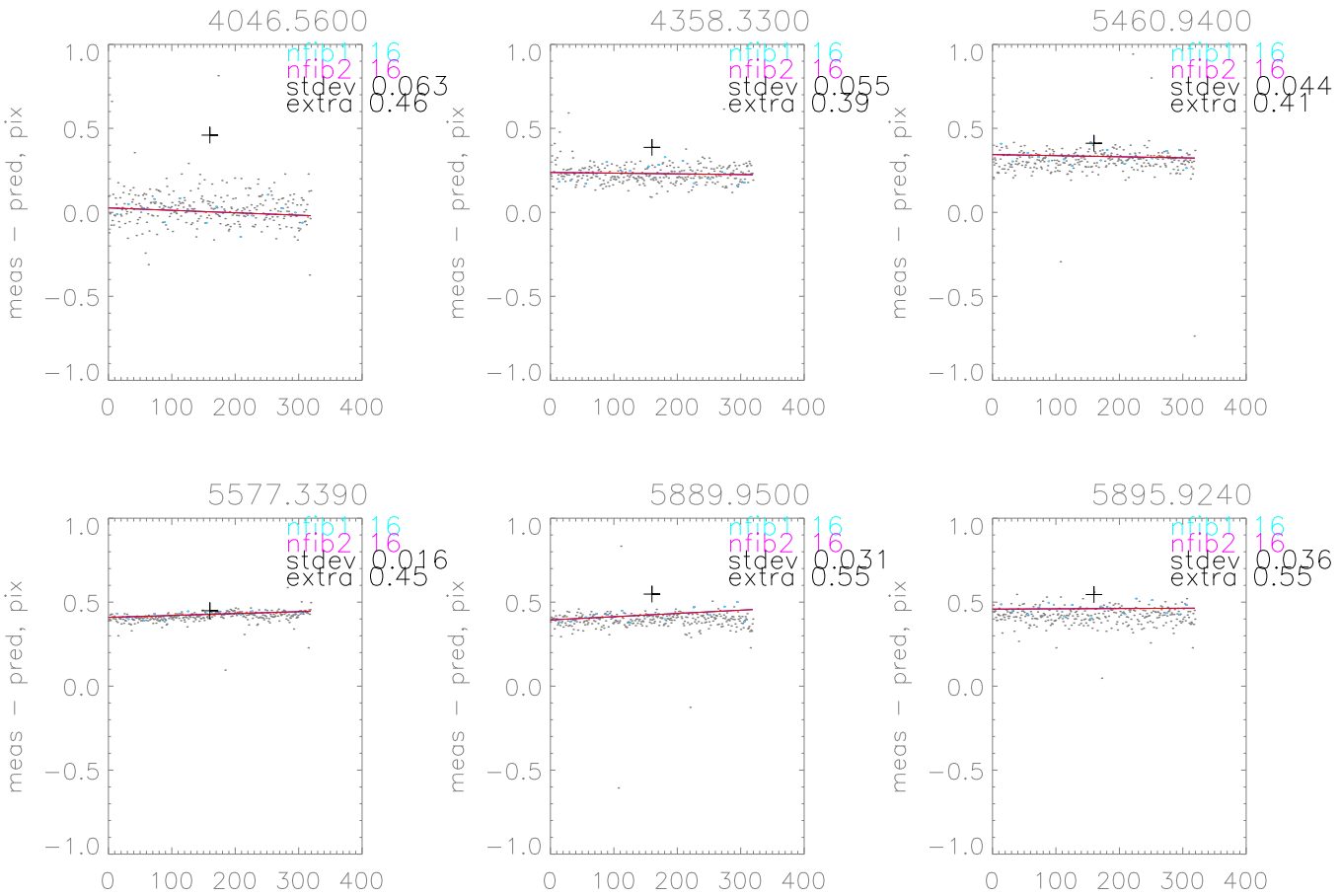

4358.3300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

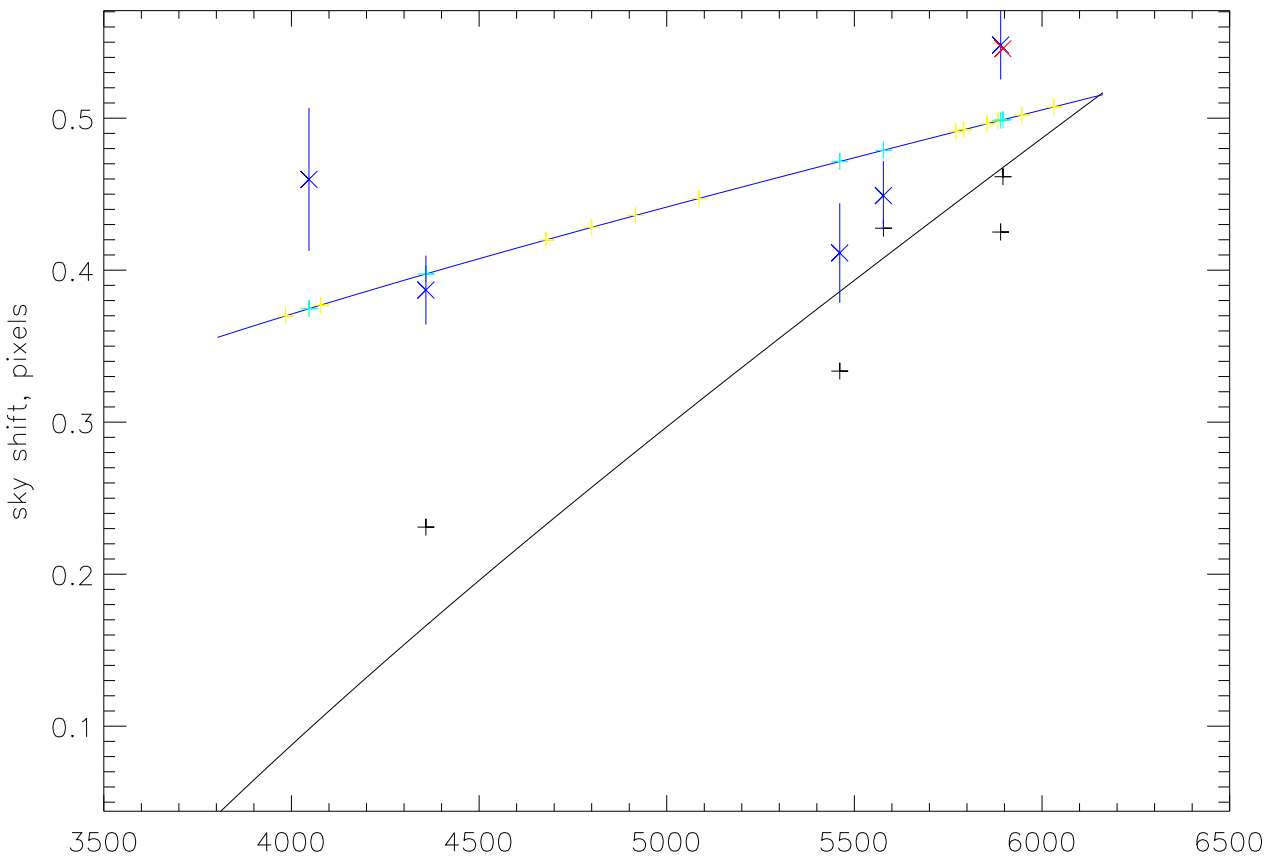

5460.9400
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400


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

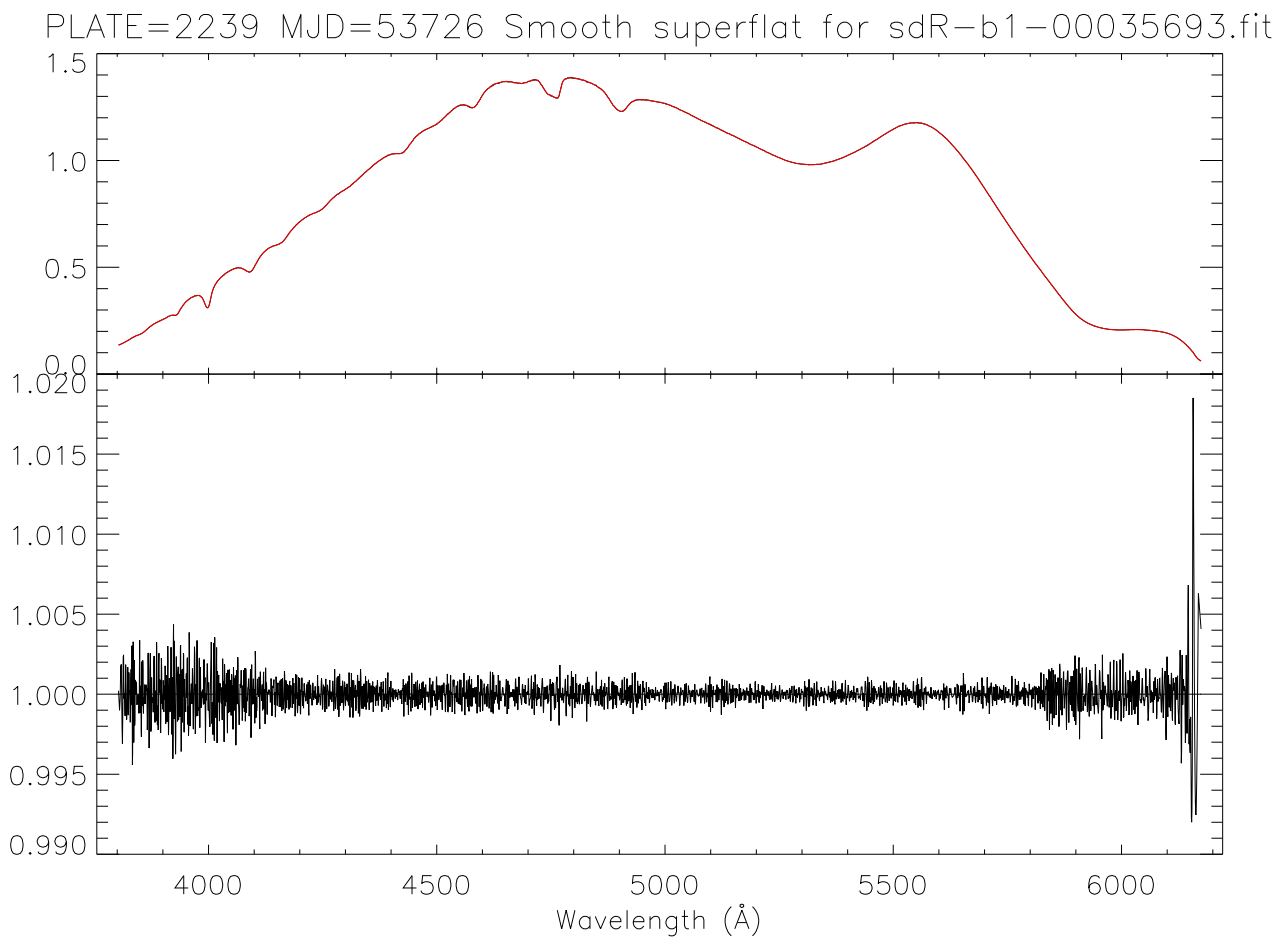

5889.9500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

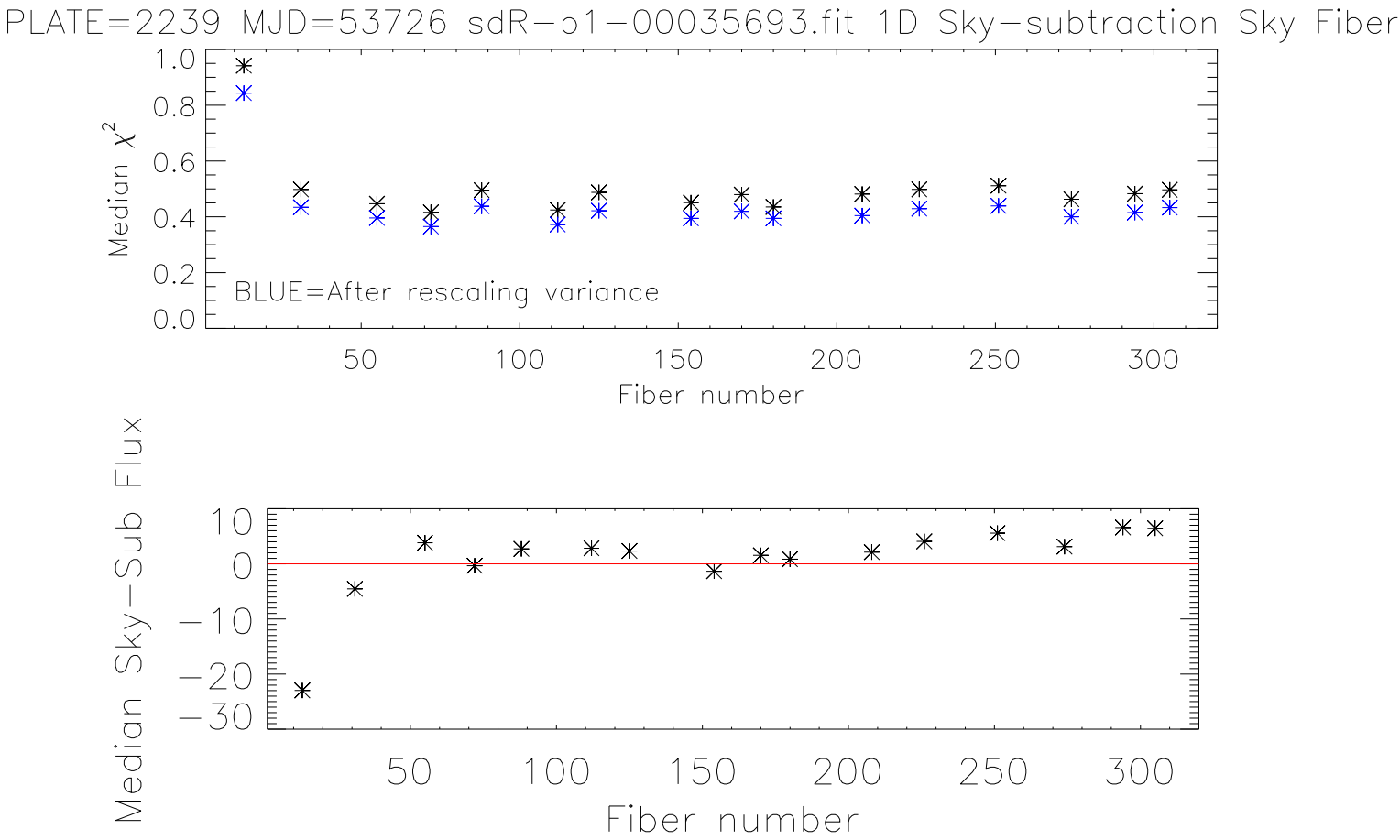

5895.9240
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

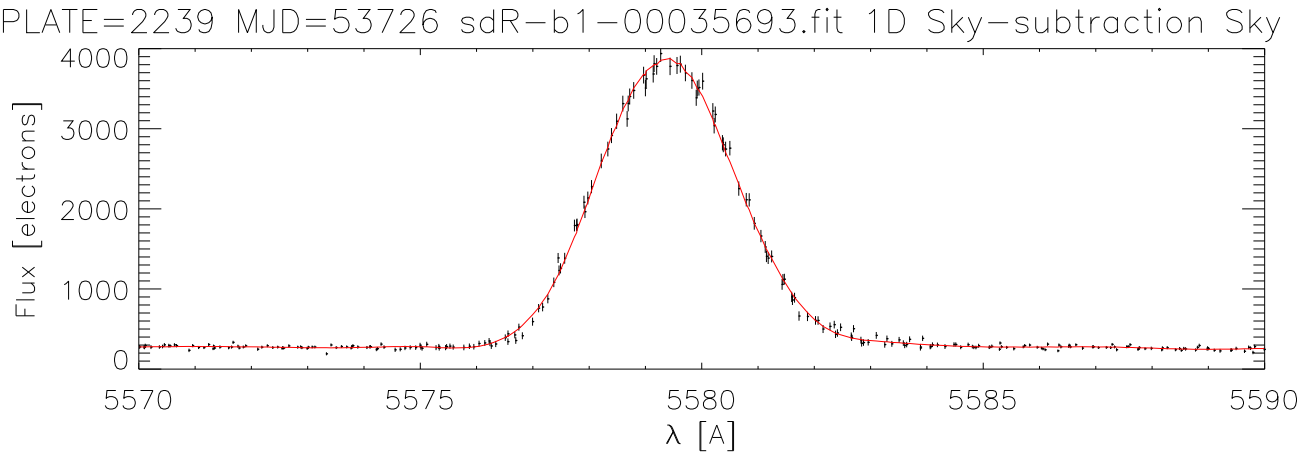

4046.5600
nfib1 16
nfib2 16
stdev 0.063
extra 0.46
4358.3300
nfib1 16
nfib2 16
stdev 0.055
extra 0.39
5460.9400
nfib1 16
nfib2 16
stdev 0.044
extra 0.41
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra 0.45
5889.9500
nfib1 16
nfib2 16
stdev 0.031
extra 0.55
5895.9240
nfib1 16
nfib2 16
stdev 0.036
extra 0.55
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

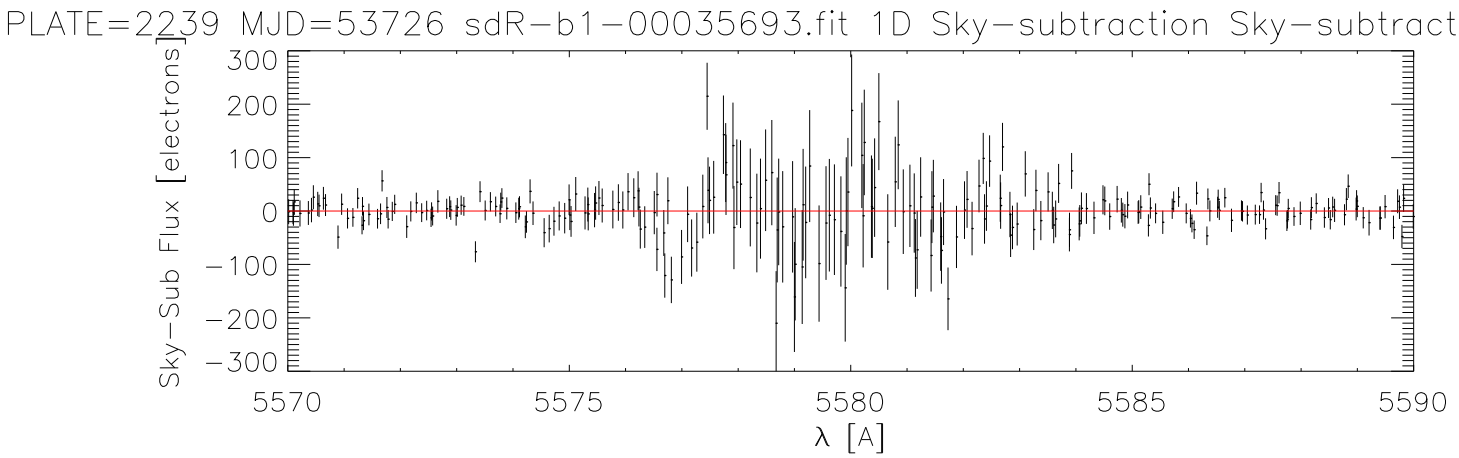

sky shift, pixels
0.1
0.2
0.3
0.4
0.5
3500
4000
4500
5000
5500
6000
6500

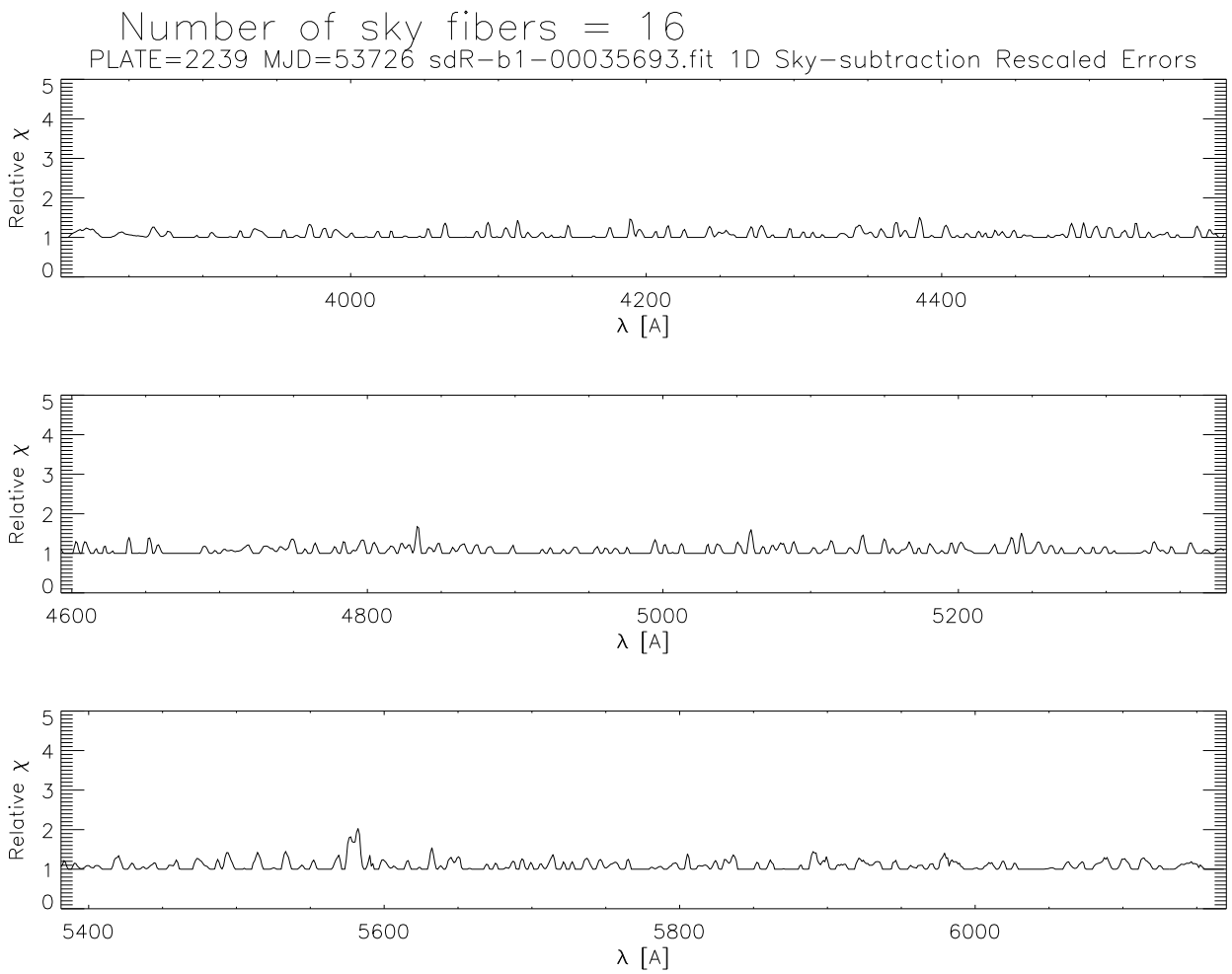
es= −0.0001

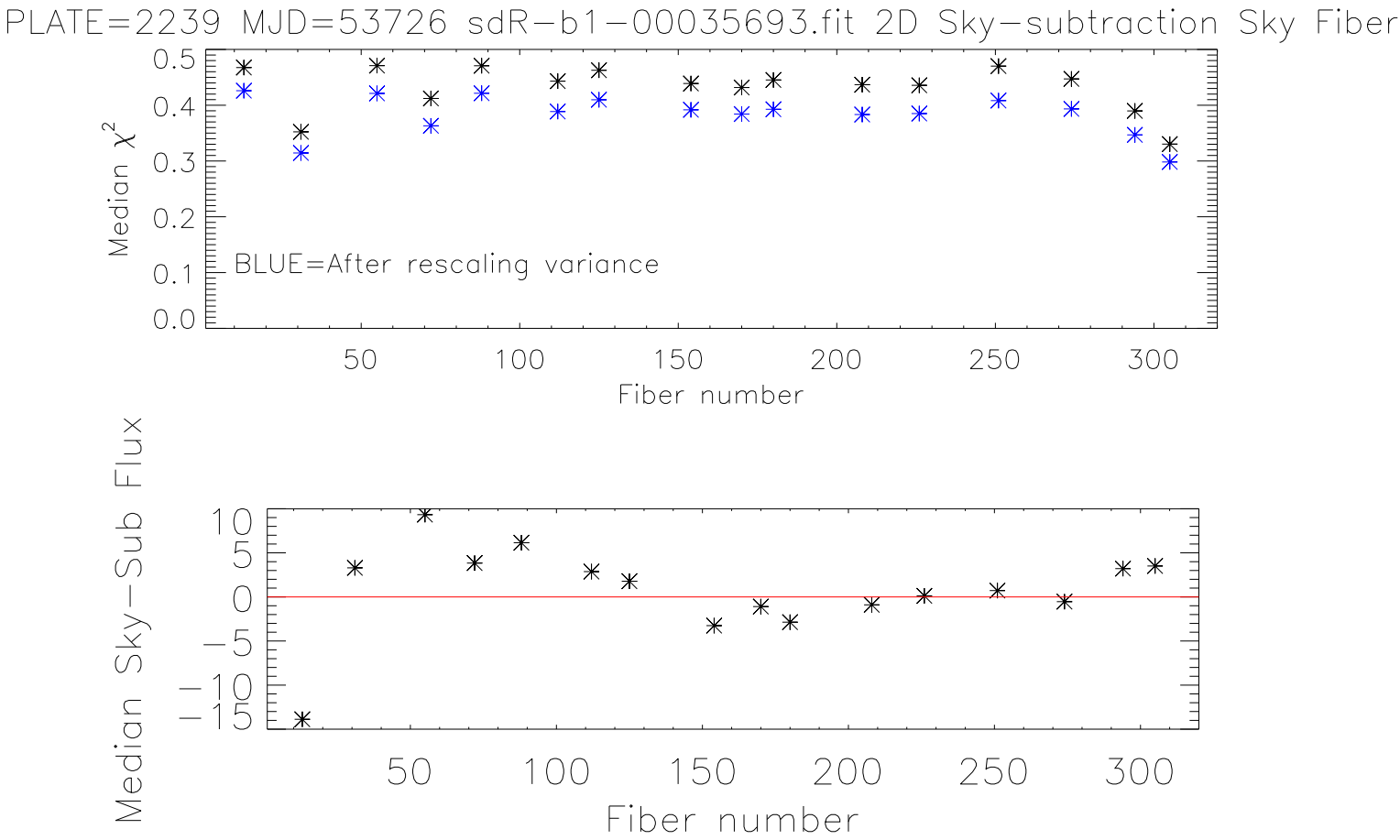

PLATE=2239 MJD=53726 Smooth superflat for sdR−b1−00035693.fit
1.5
1.0
0.5
0.0
1.020
1.015
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

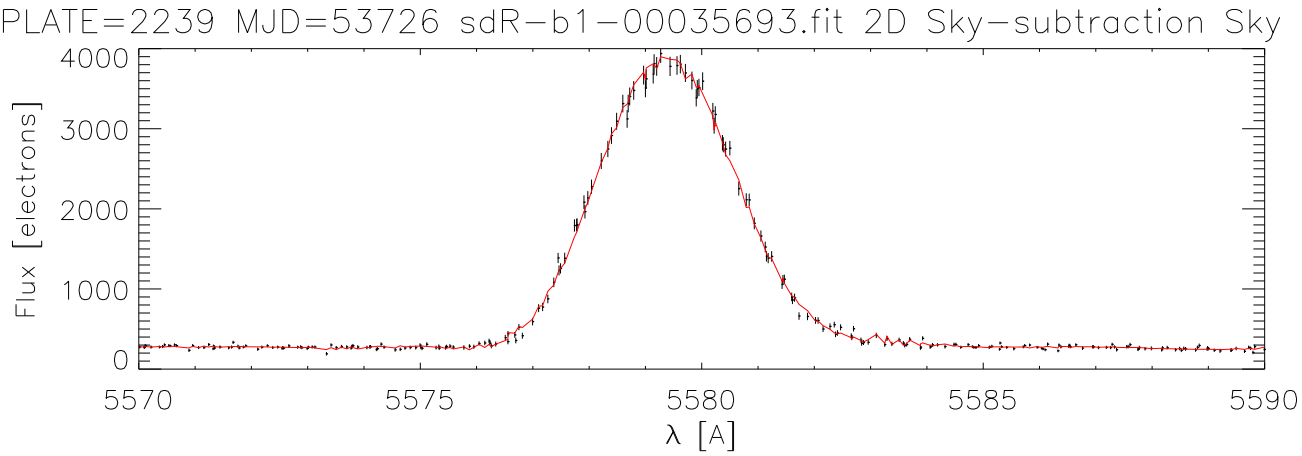

PLATE=2239 MJD=53726 sdR-b1-00035693.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

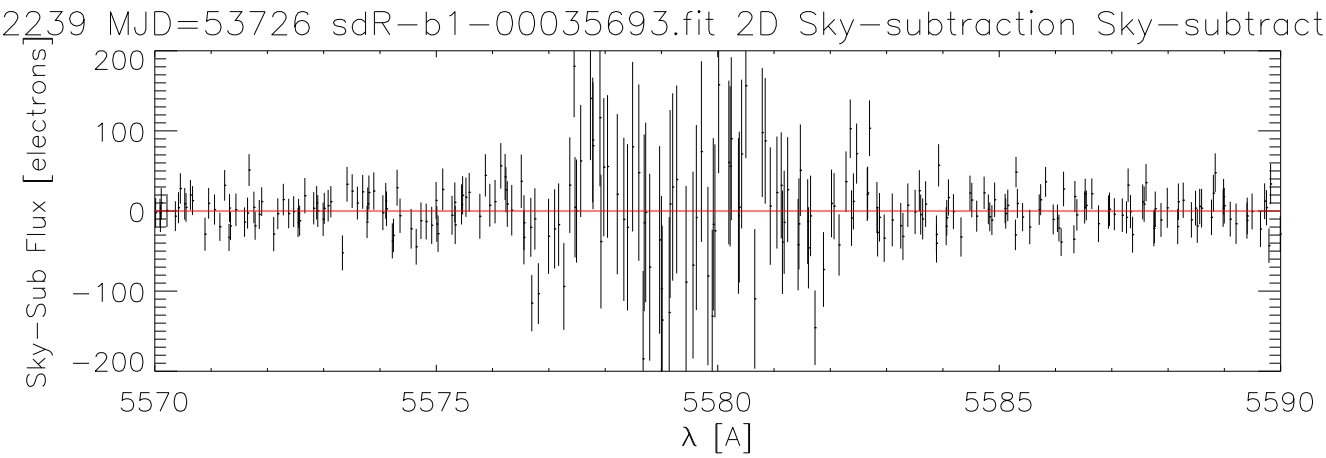

PLATE=2239 MJD=53726 sdR-b1-00035693.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

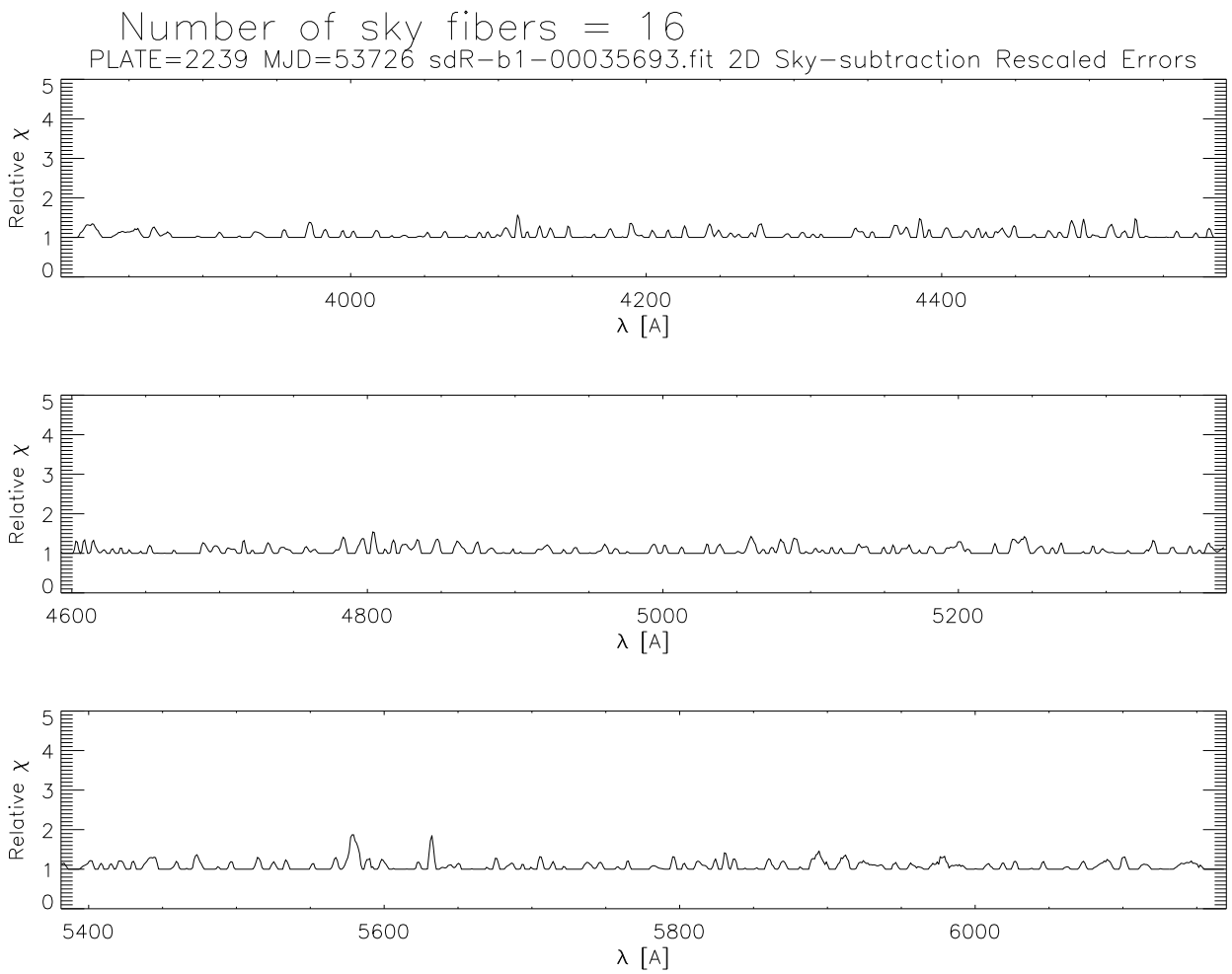

PLATE=2239 MJD=53726 sdR-b1-00035693.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

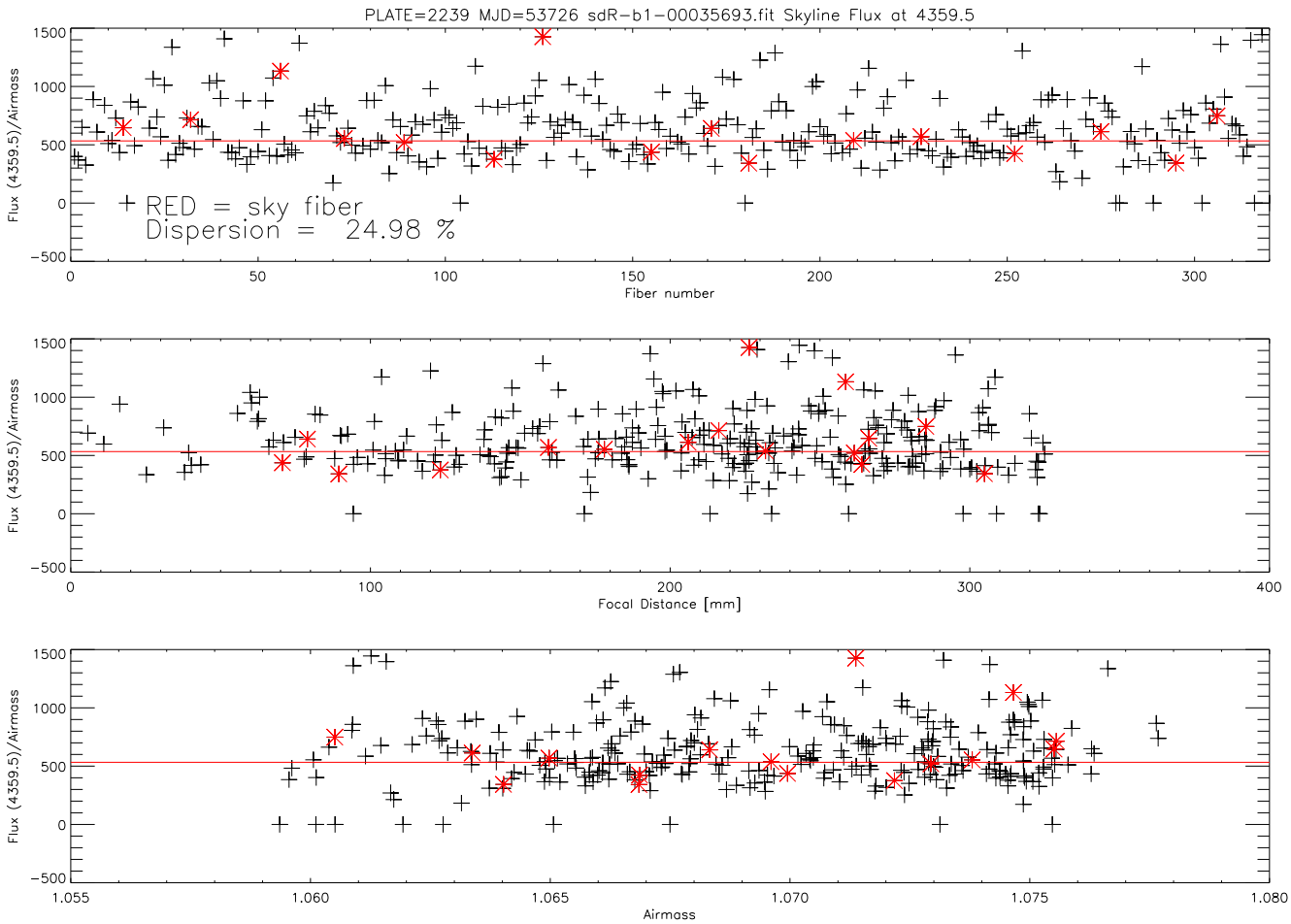

Number of sky fibers = 16
PLATE=2239 MJD=53726 sdR-b1-00035693.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

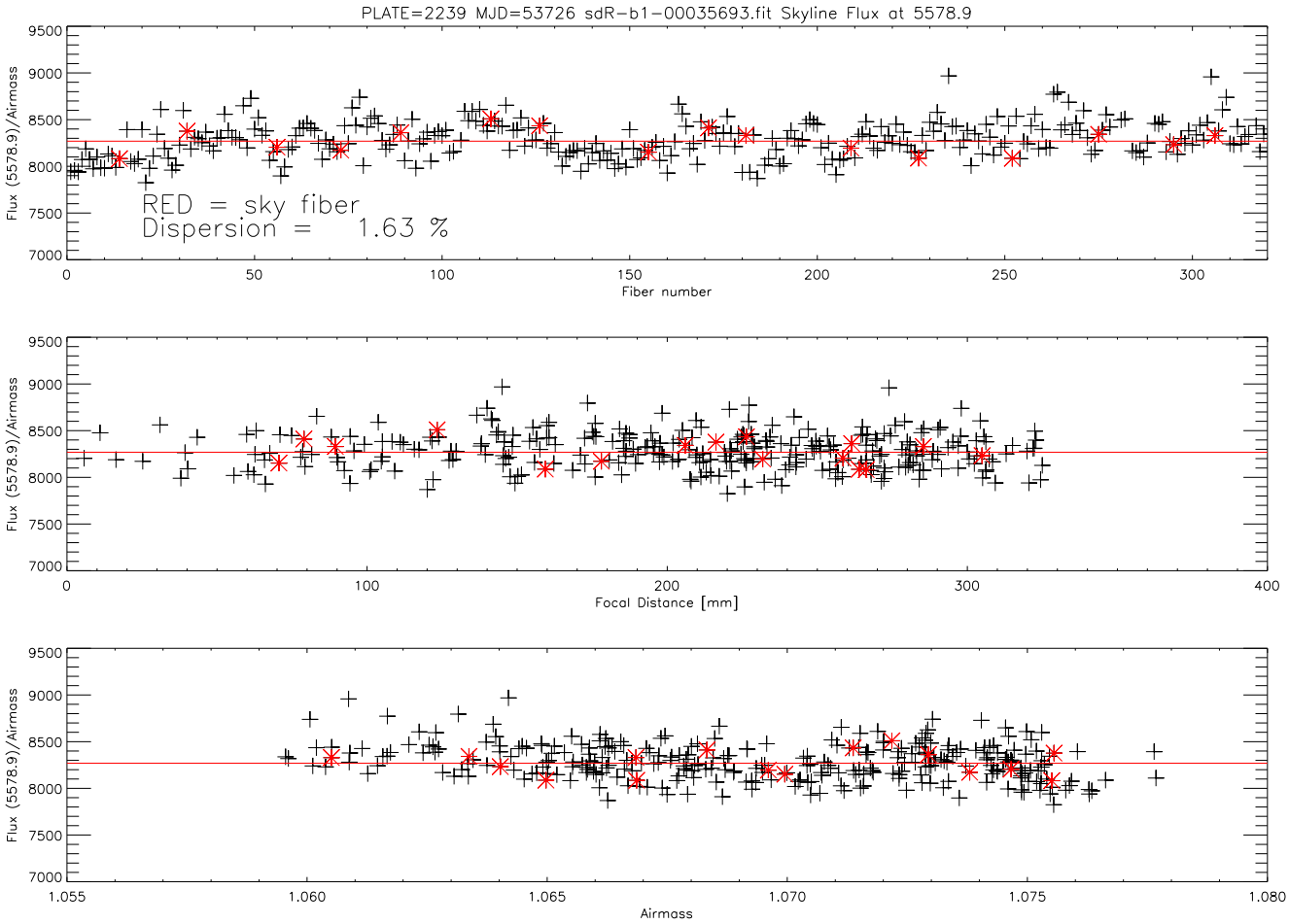

PLATE=2239 MJD=53726 sdR-b1-00035693.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

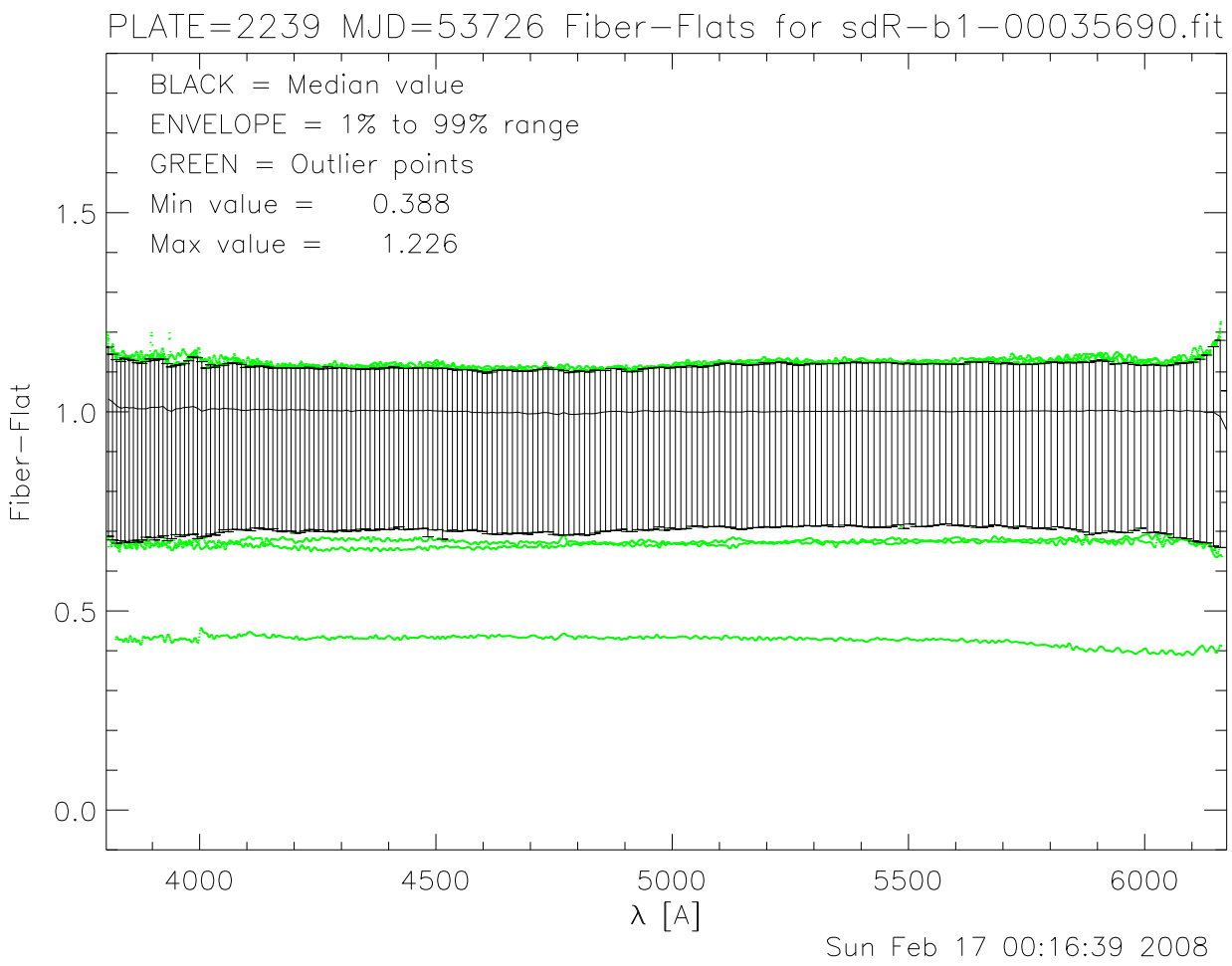

PLATE=2239 MJD=53726 sdR-b1-00035693.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

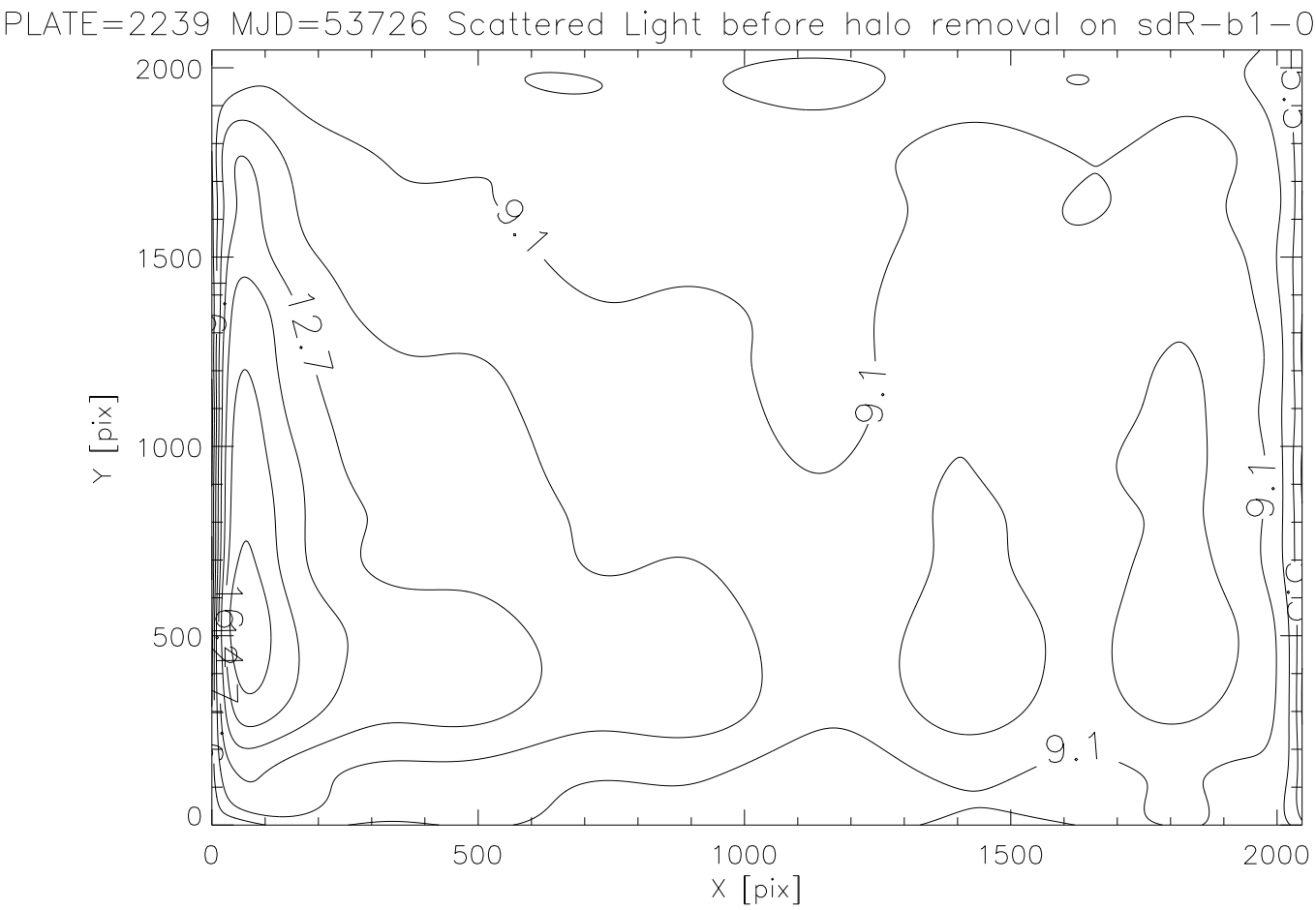

PLATE=2239 MJD=53726 sdR-b1-00035693.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

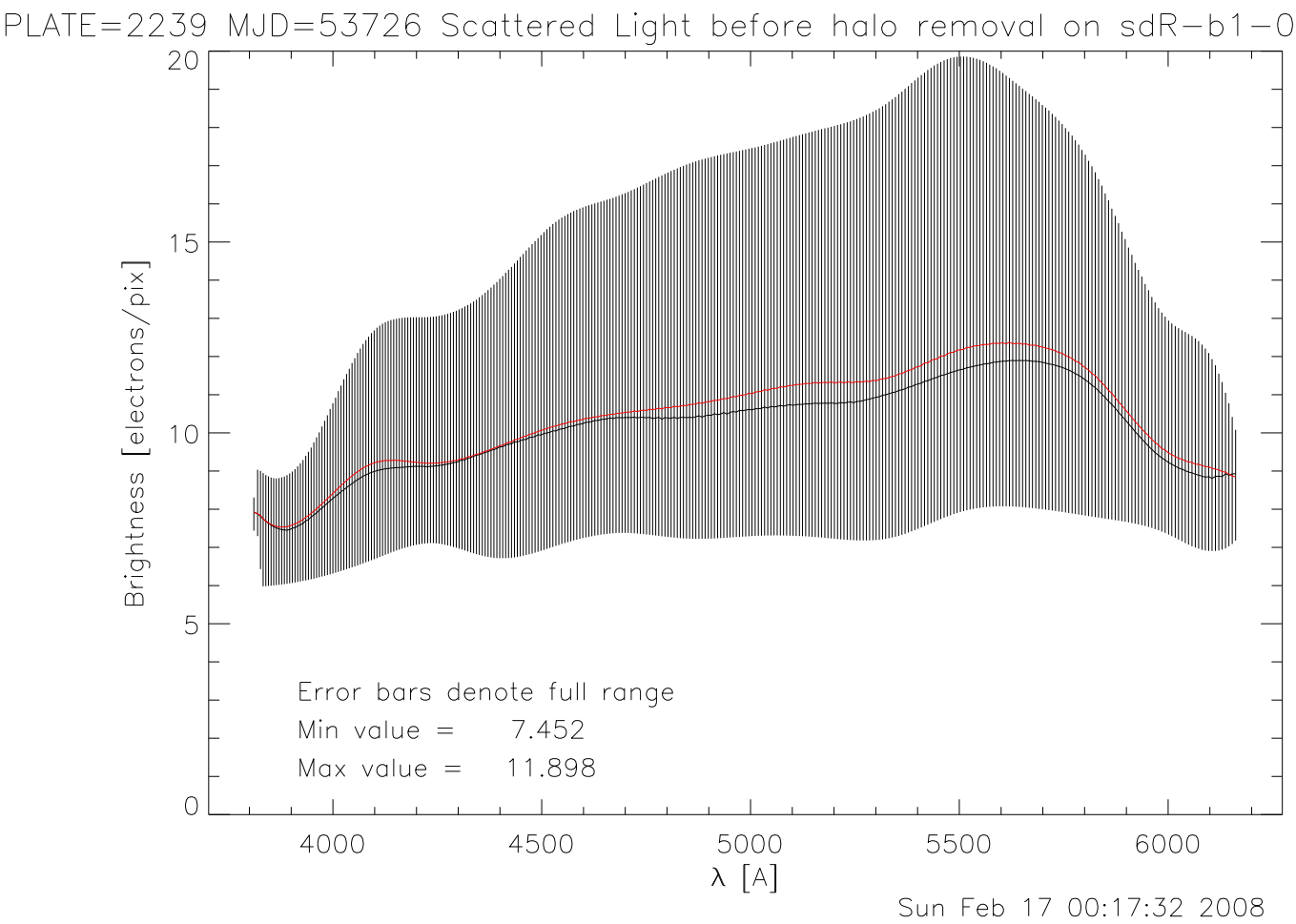

Number of sky fibers = 16
PLATE=2239 MJD=53726 sdR-b1-00035693.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

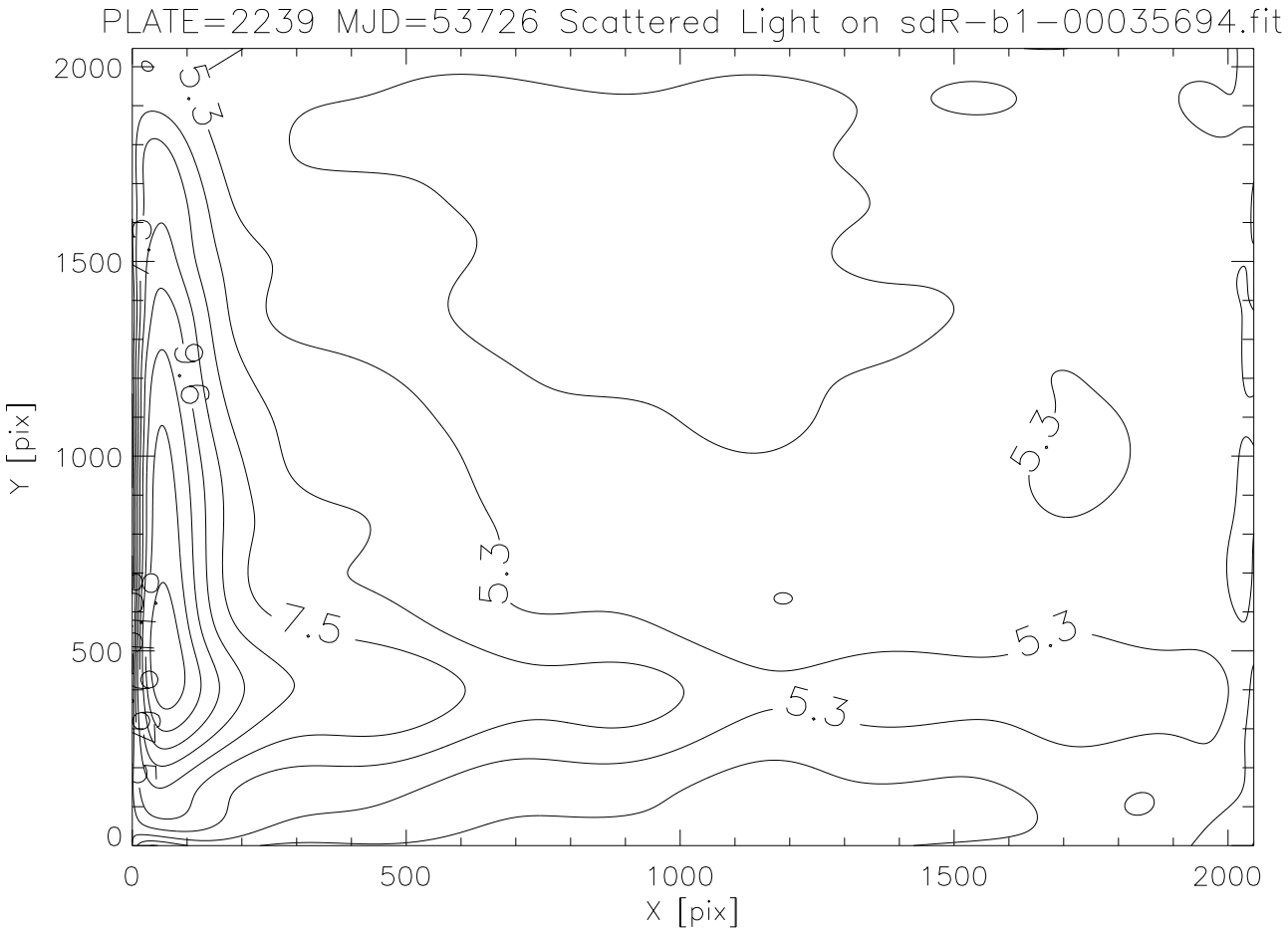

PLATE=2239 MJD=53726 sdR-b1-00035693.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 24.98 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

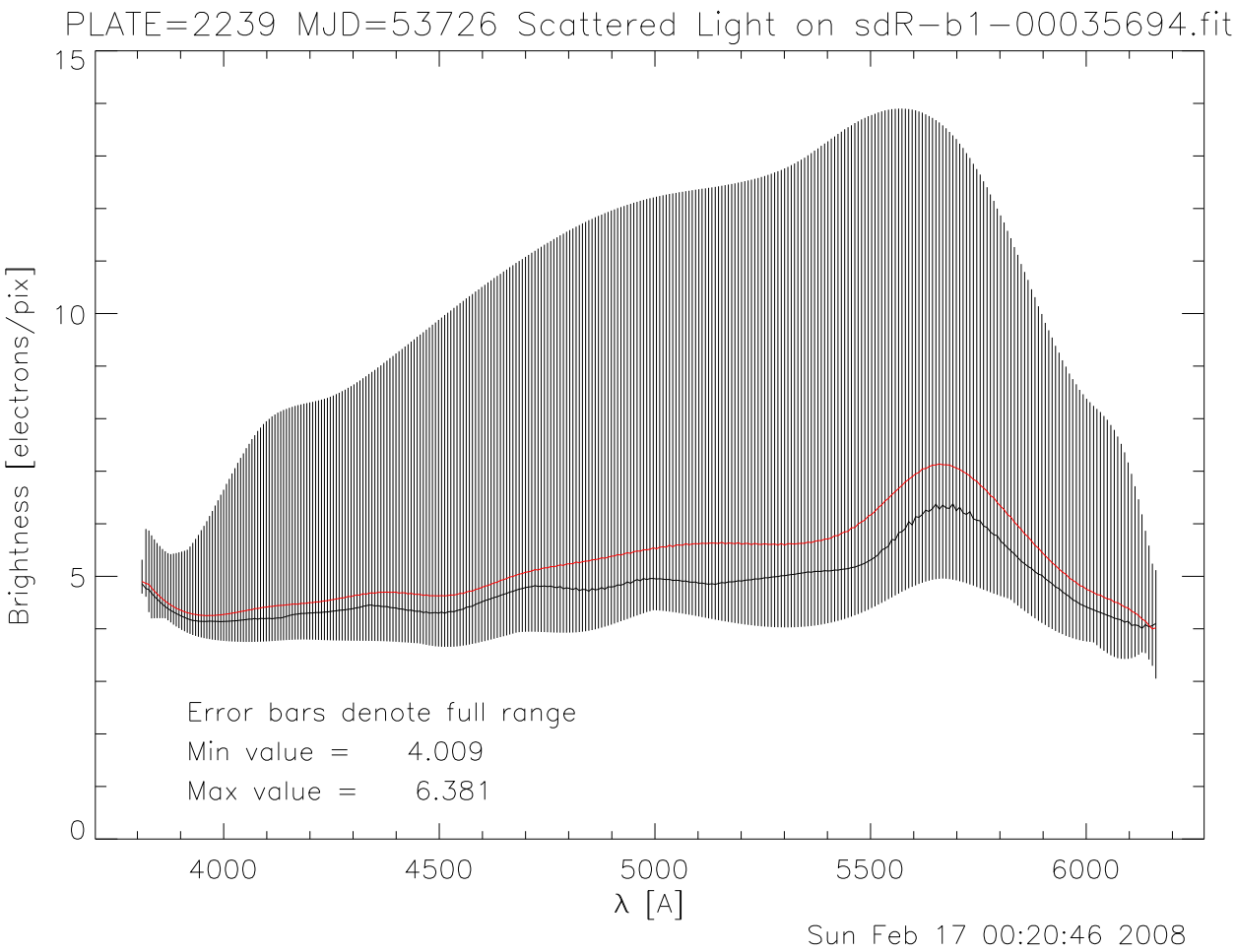

PLATE=2239 MJD=53726 sdR-b1-00035693.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.63 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

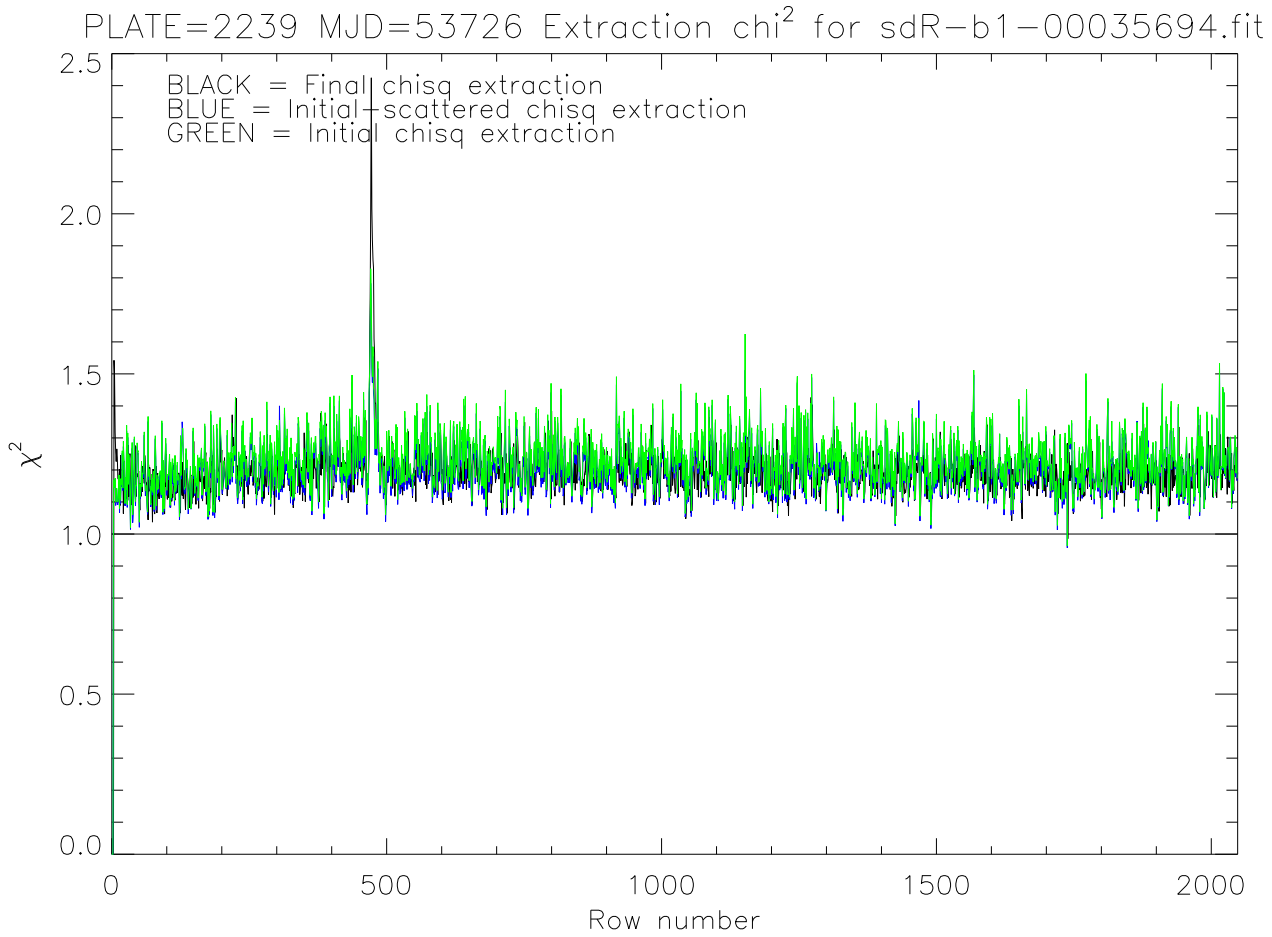

PLATE=2239 MJD=53726 Fiber-Flats for sdR-b1-00035690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.388
Max value = 1.226
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 17 00:16:39 2008

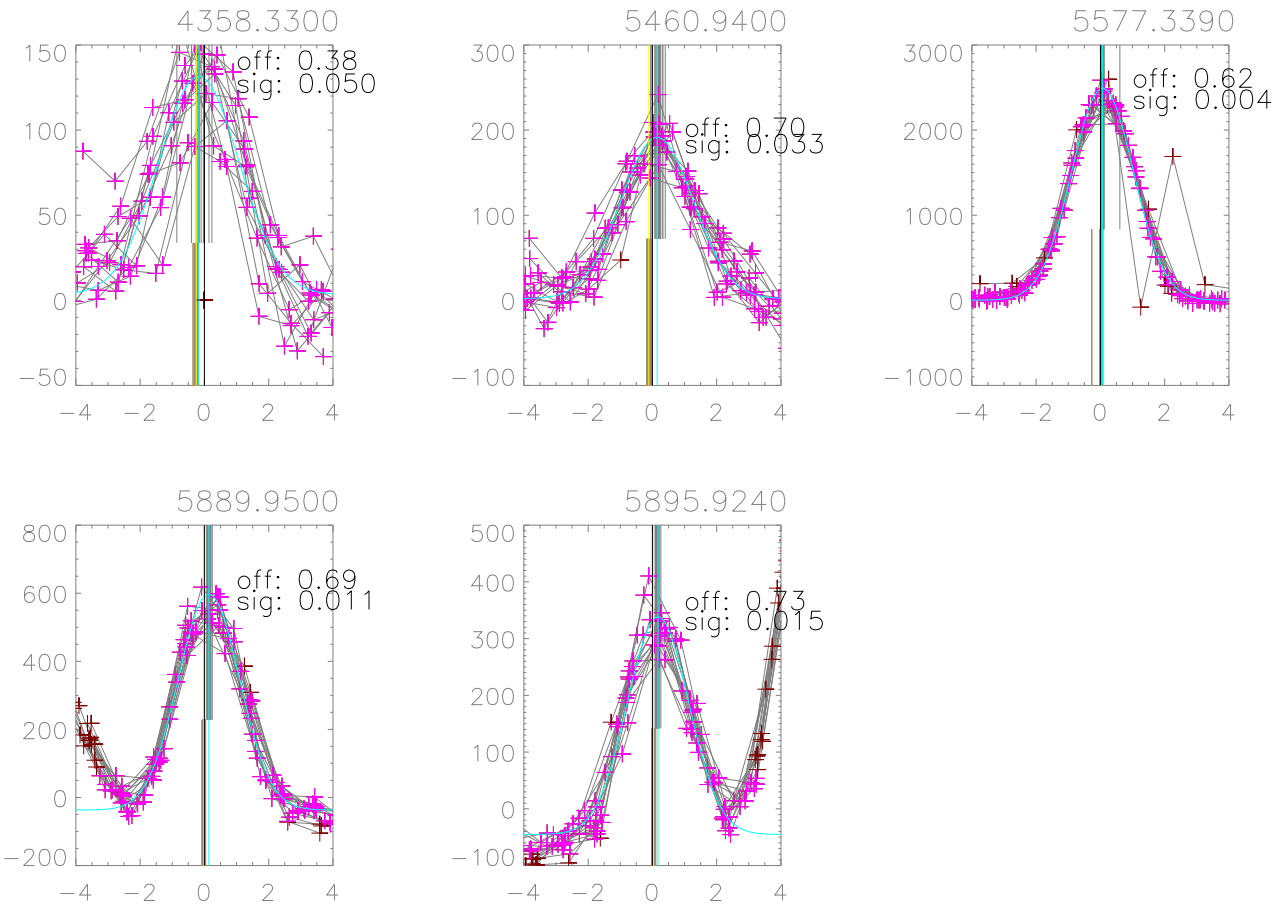

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR-b1-00035694.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
12.7
9.1
9.1
16.4
9.1

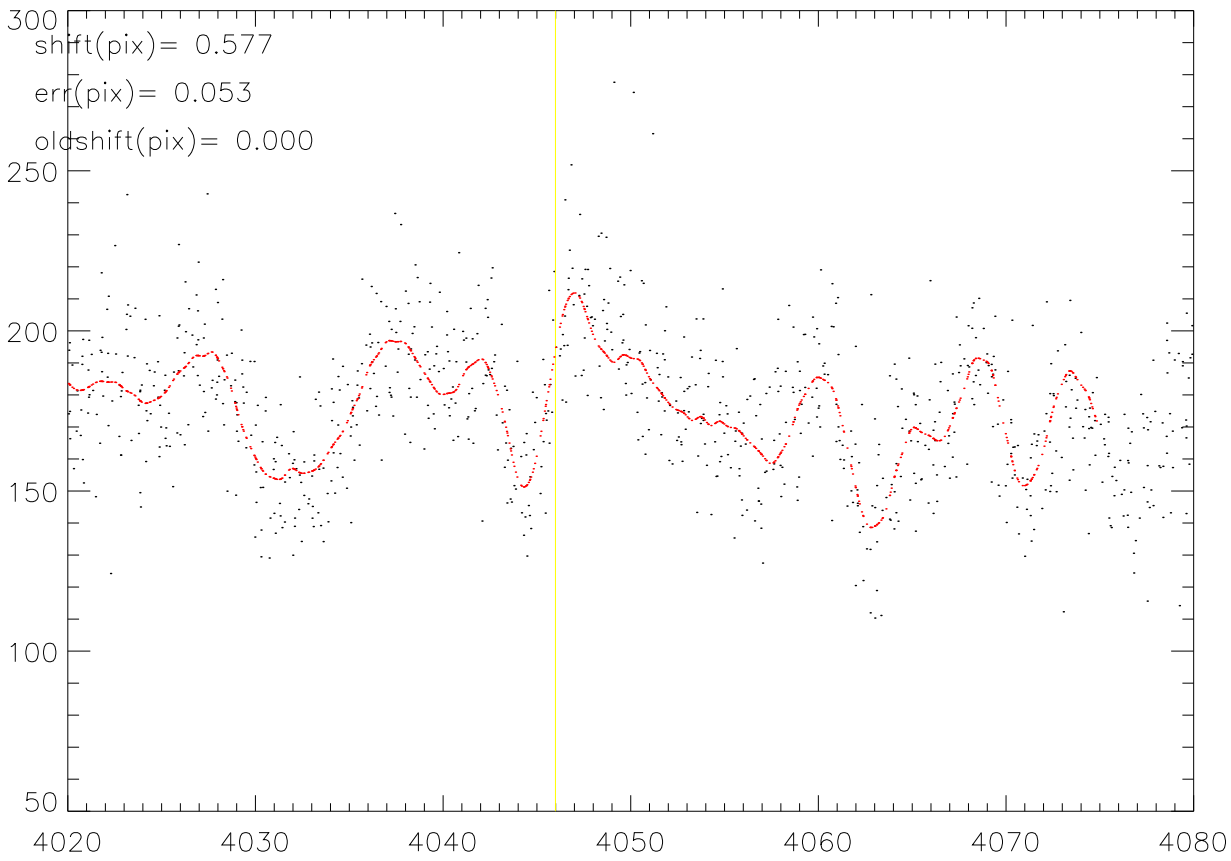

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR-b1-00035694.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 7.452
Max value = 11.898
4000
4500
5000
5500
6000
λ [A]
Sun Feb 17 00:17:32 2008

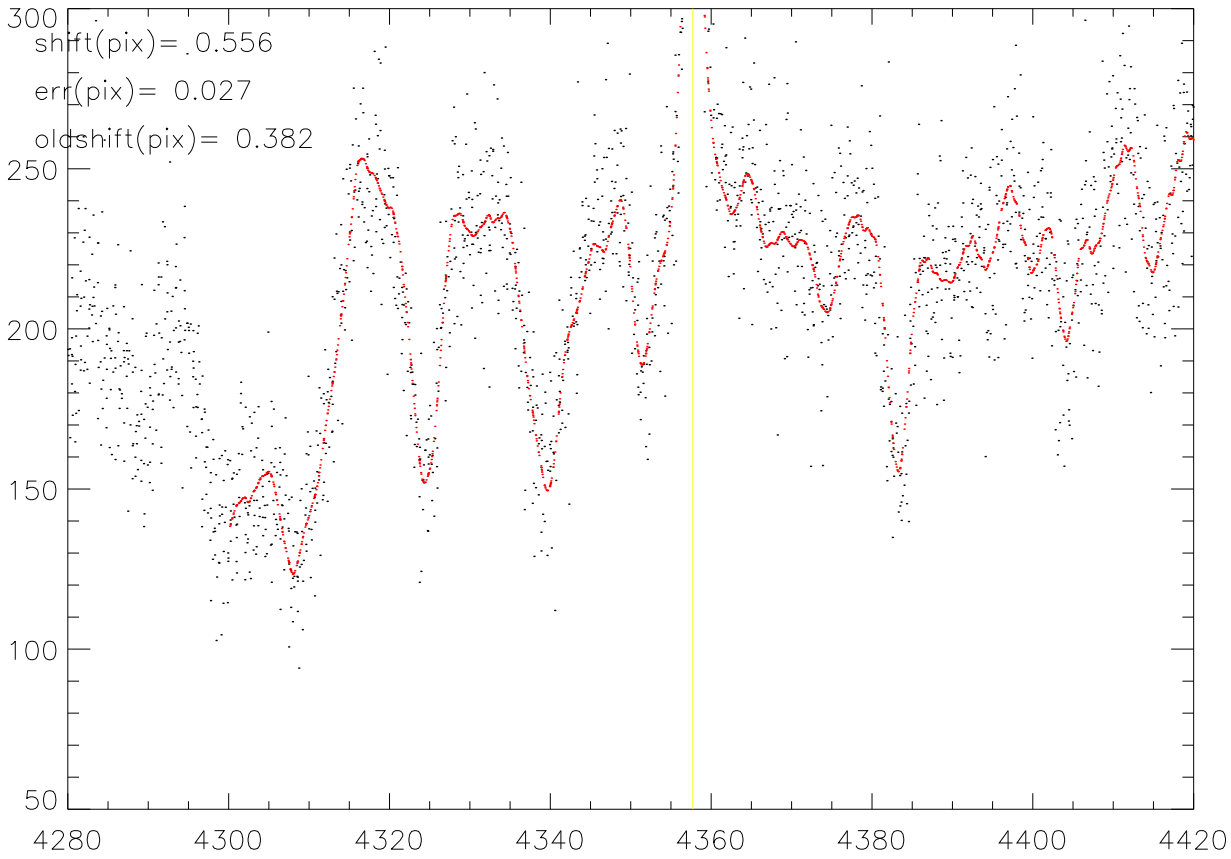

PLATE=2239 MJD=53726 Scattered Light on sdR-b1-00035694.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.3
7.5
9.6
11.8
14.0
16.2
18.4
20.6
22.8
25.0
27.2
29.4
31.6
33.8
36.0
38.2
40.4
42.6
44.8
47.0
49.2
51.4
53.6
55.8
58.0
60.2
62.4
64.6
66.8
69.0
71.2
73.4
75.6
77.8
80.0
82.2
84.4
86.6
88.8
91.0
93.2
95.4

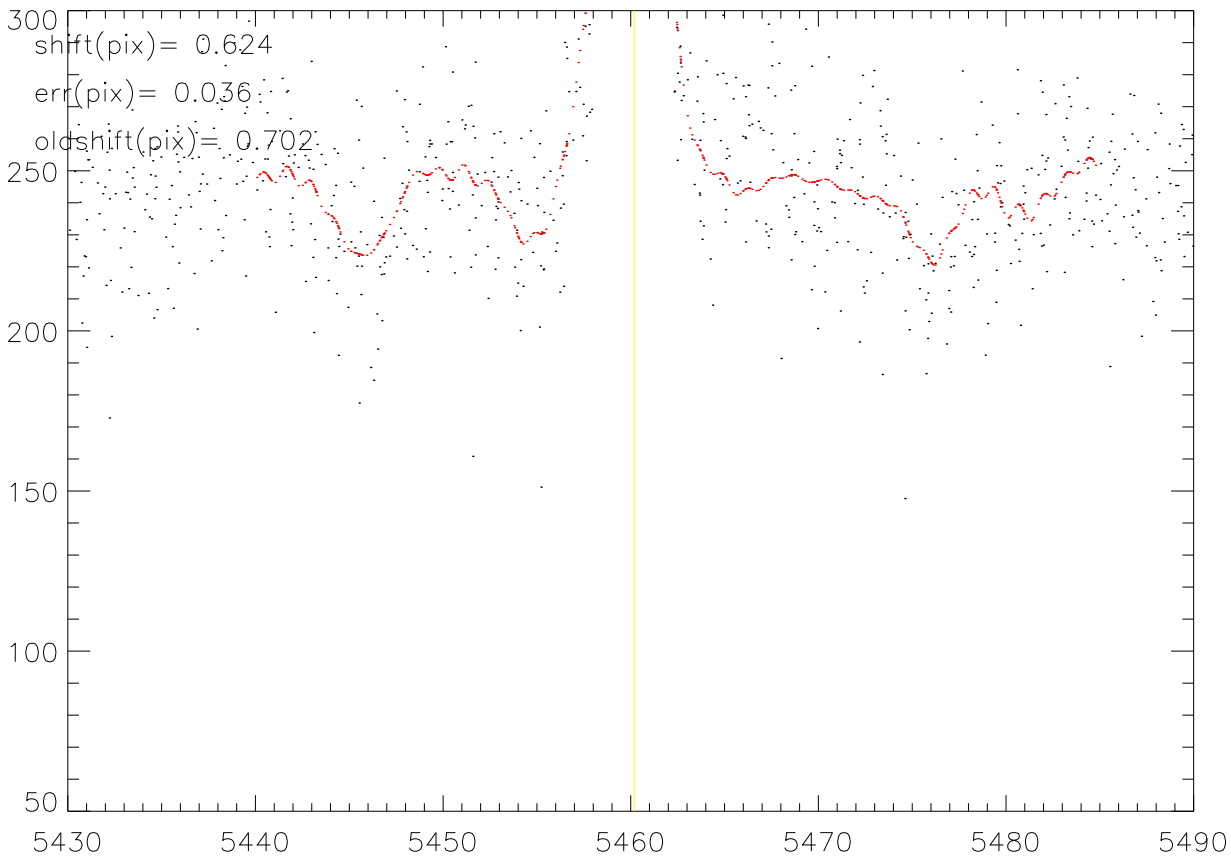

PLATE=2239 MJD=53726 Scattered Light on sdR-b1-00035694.fit
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 4.009
Max value = 6.381
Sun Feb 17 00:20:46 2008

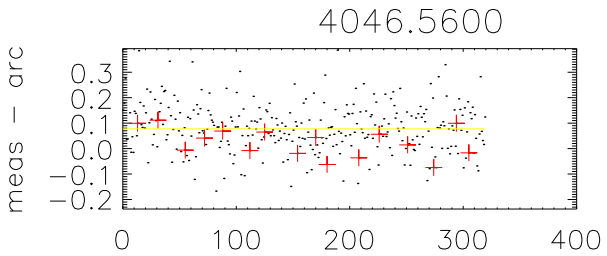

PLATE=2239 MJD=53726 Extraction chi^2 for sdR-b1-00035694.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

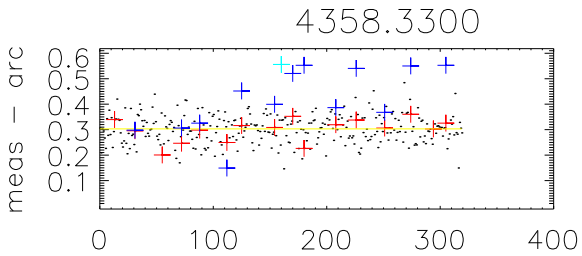

4358.3300
off: 0.38
sig: 0.050
5460.9400
off: 0.70
sig: 0.033
5577.3390
off: 0.62
sig: 0.004
5889.9500
off: 0.69
sig: 0.011
5895.9240
off: 0.73
sig: 0.015

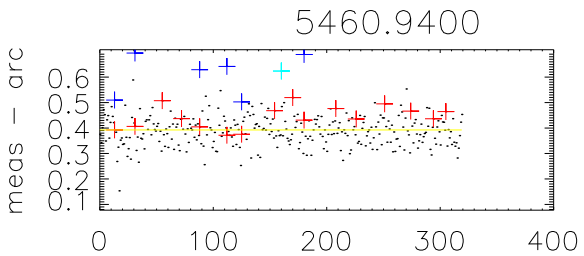

shift(pix)= 0.577
err(pix)= 0.053
oldshift(pix)= 0.000
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

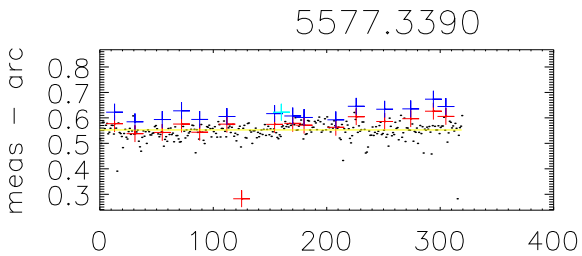

shift(pix)= 0.556
err(pix)= 0.027
oldshift(pix)= 0.382
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

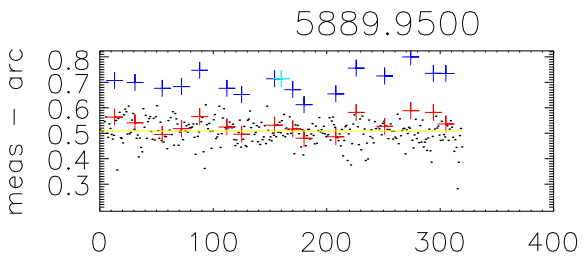

shift(pix)= 0.624
err(pix)= 0.036
oldshift(pix)= 0.702
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

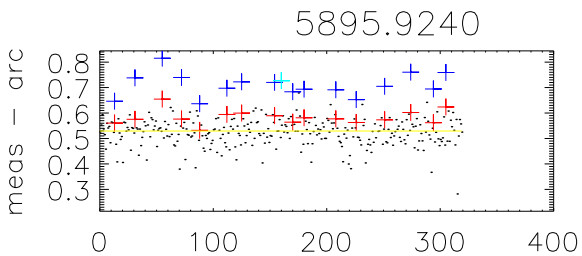

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

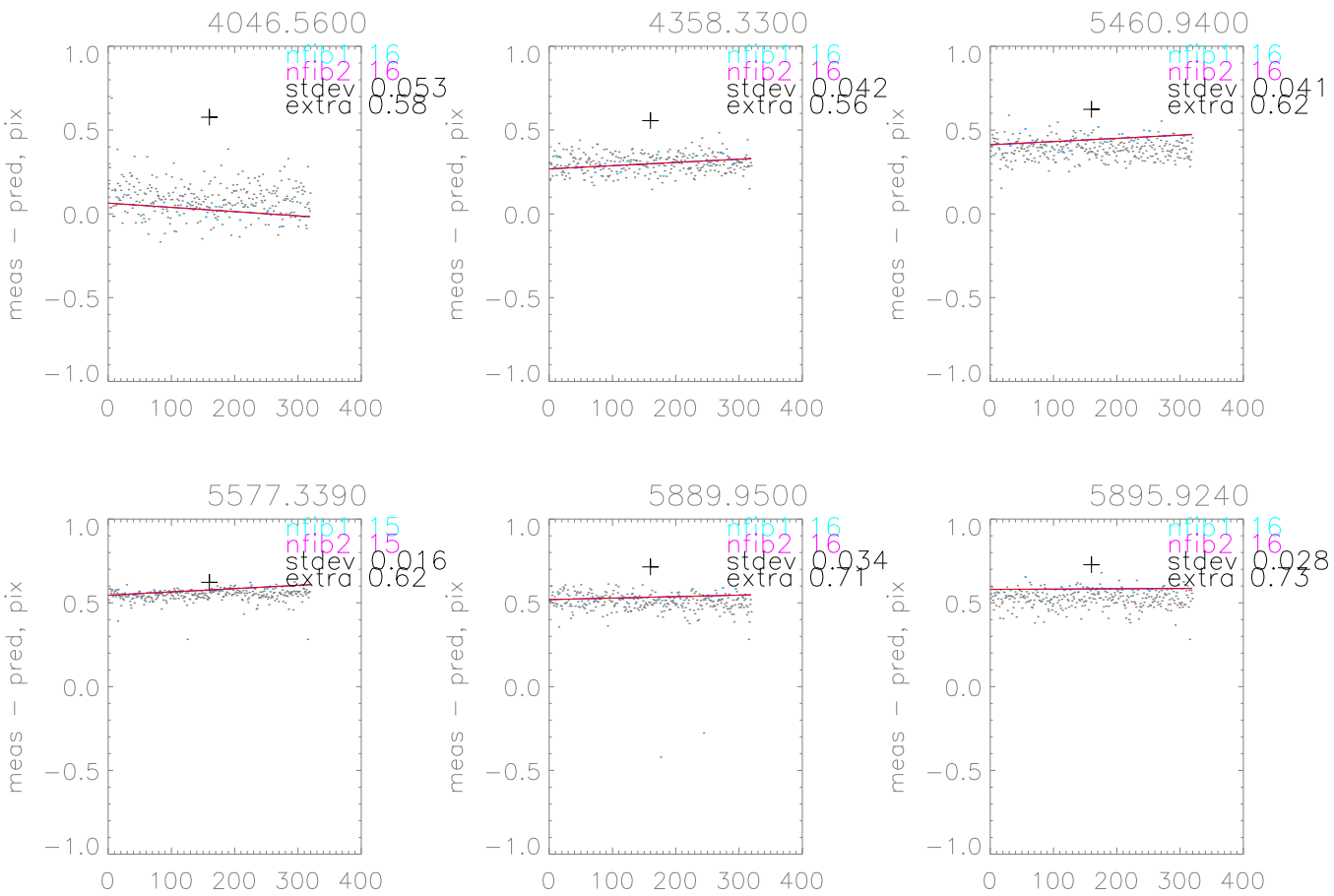

4358.3300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

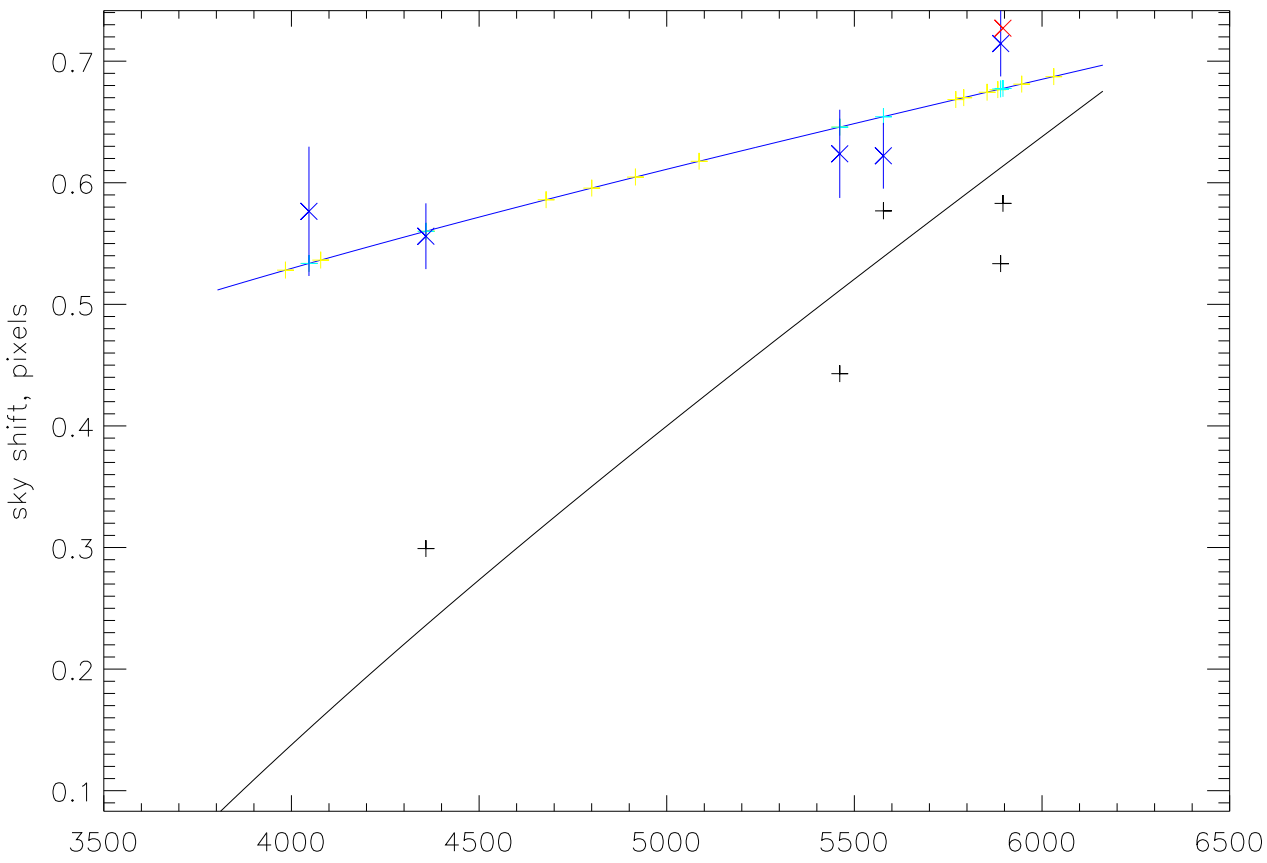

5460.9400
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400


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

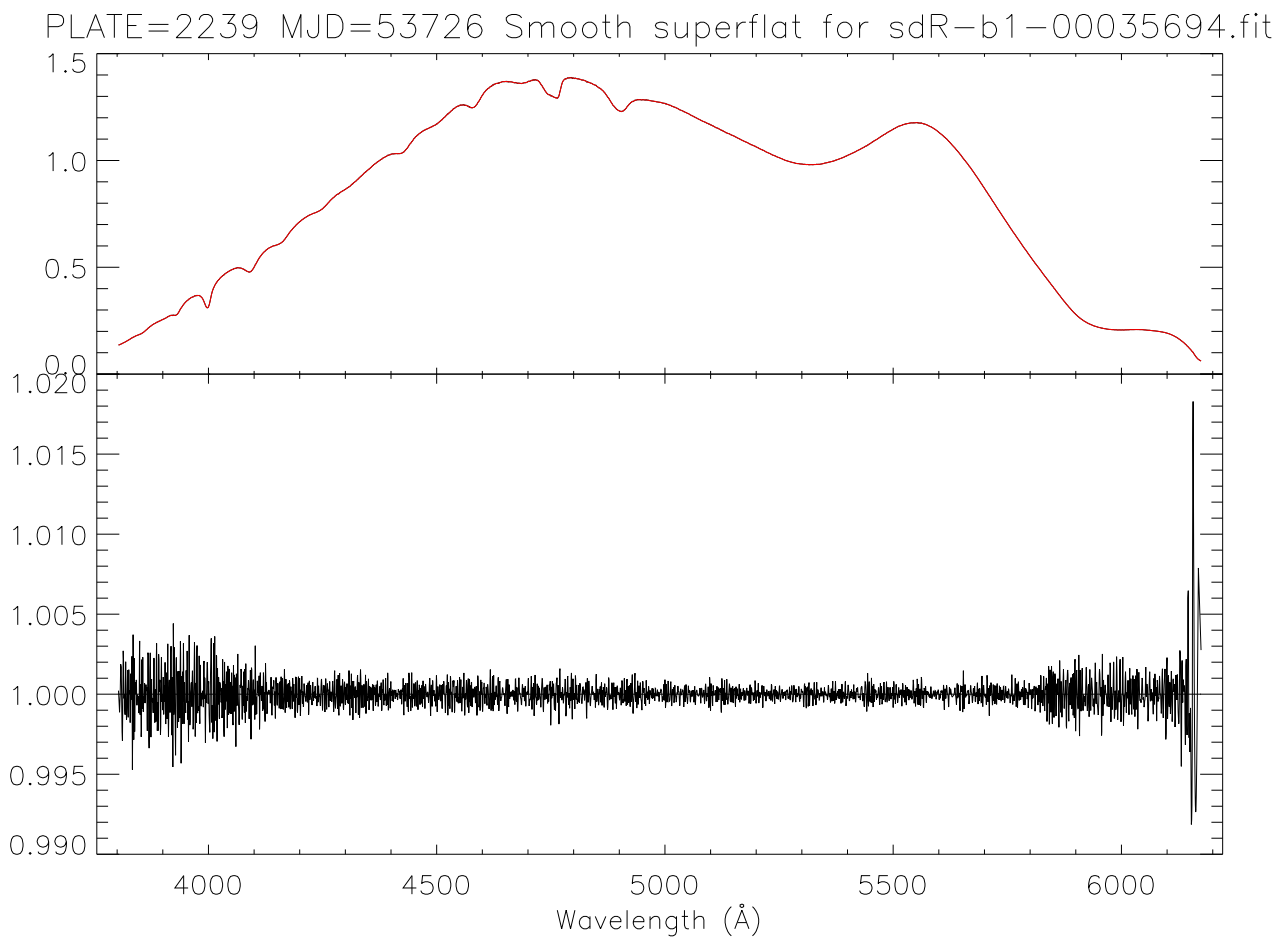

5889.9500
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

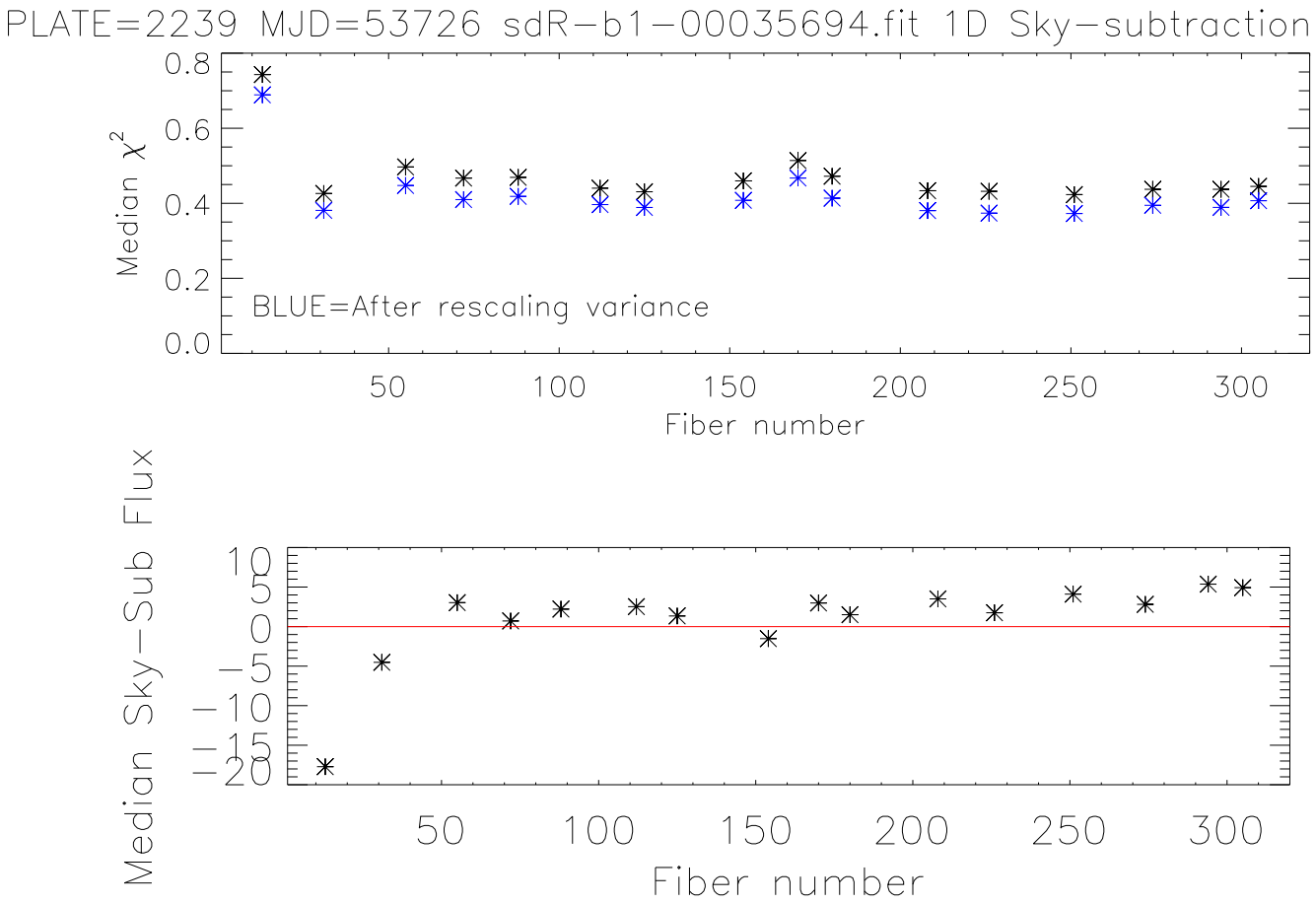

5895.9240
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

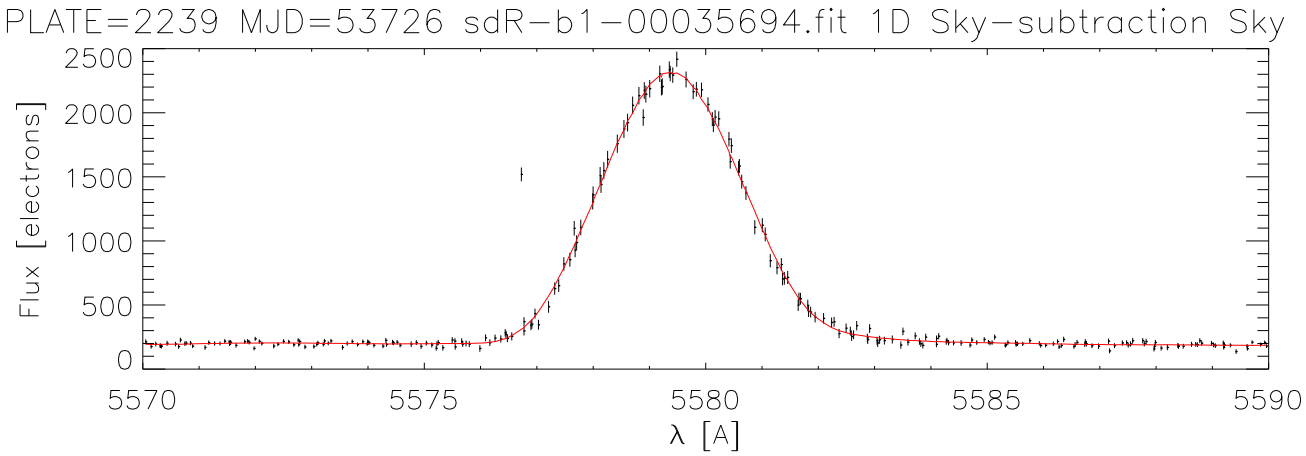

4046.5600
nfib1 16
nfib2 16
stdev 0.053
extra 0.58
4358.3300
nfib1 16
nfib2 16
stdev 0.042
extra 0.56
5460.9400
nfib1 16
nfib2 16
stdev 0.041
extra 0.62
5577.3390
nfib1 15
nfib2 15
stdev 0.016
extra 0.62
5889.9500
nfib1 16
nfib2 16
stdev 0.034
extra 0.71
5895.9240
nfib1 16
nfib2 16
stdev 0.028
extra 0.73
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

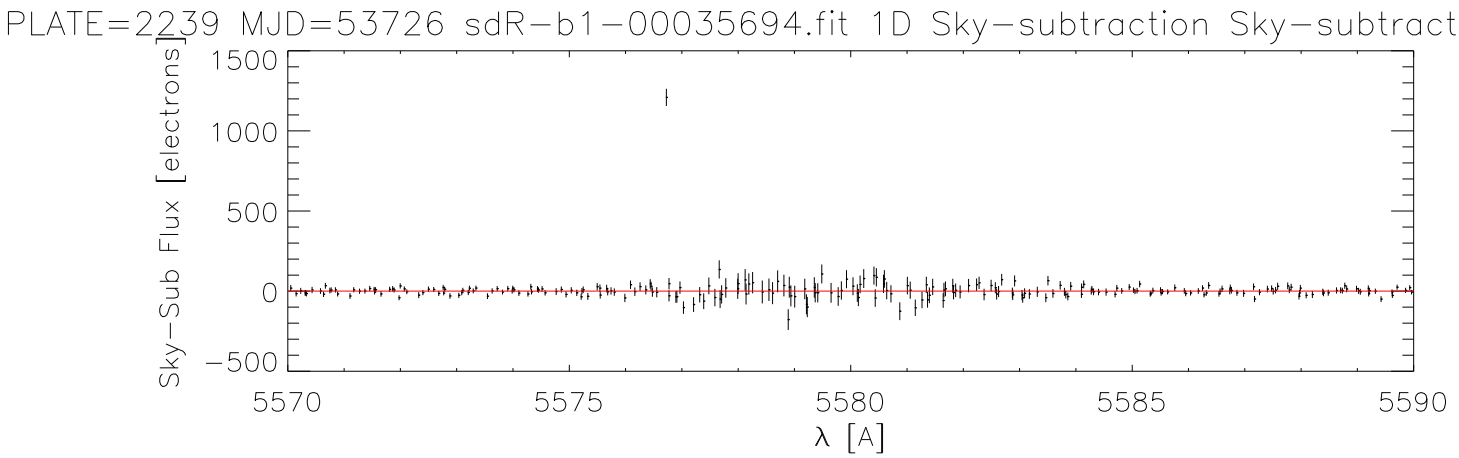

sky shift, pixels
0.7
0.6
0.5
0.4
0.3
0.2
0.1
3500
4000
4500
5000
5500
6000
6500

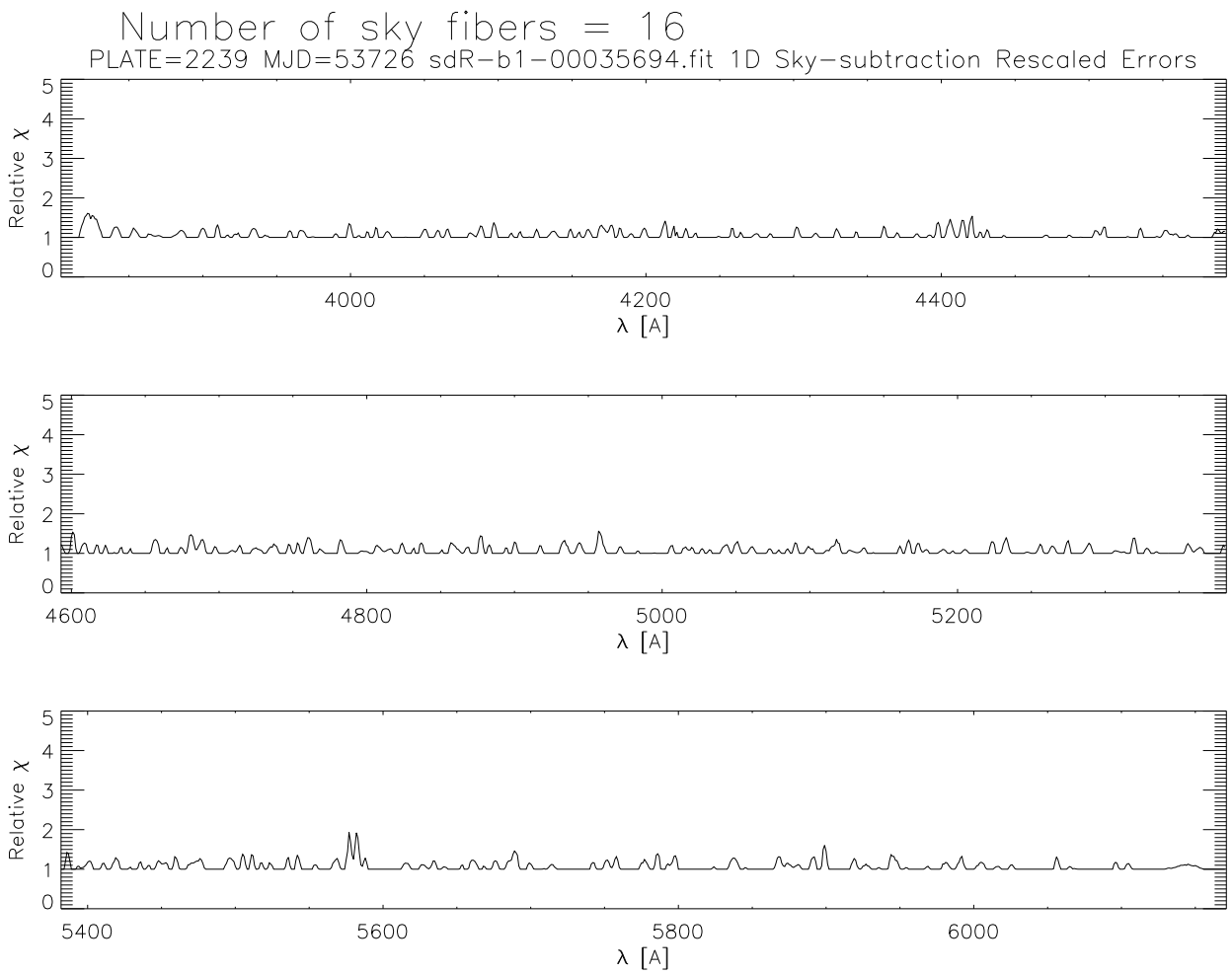
es= −0.0001

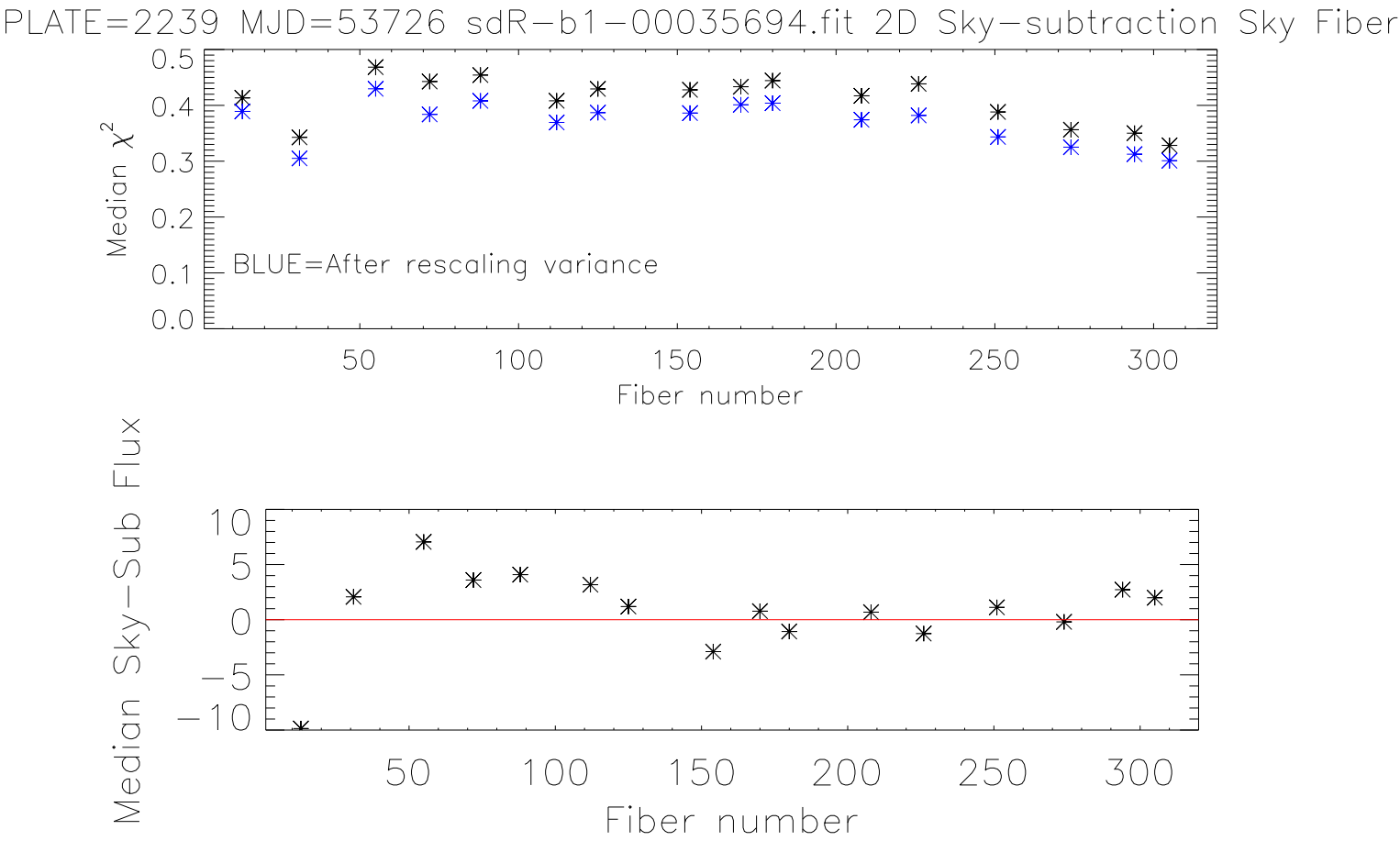

PLATE=2239 MJD=53726 Smooth superflat for sdR−b1−00035694.fit
1.5
1.0
0.5
0.0
1.020
1.015
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

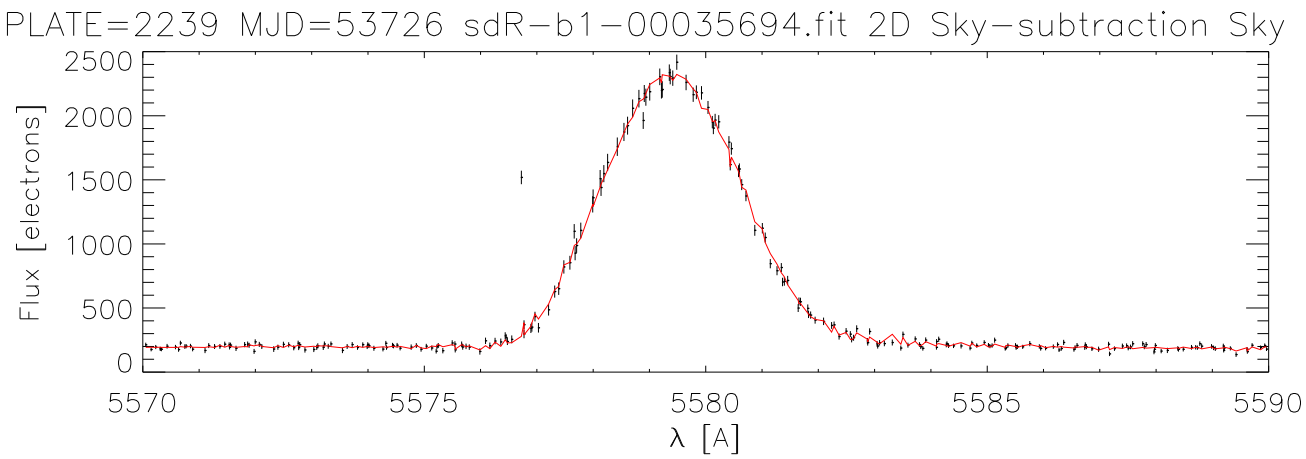

PLATE=2239 MJD=53726 sdR-b1-00035694.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
-20
50
100
150
200
250
300
Fiber number

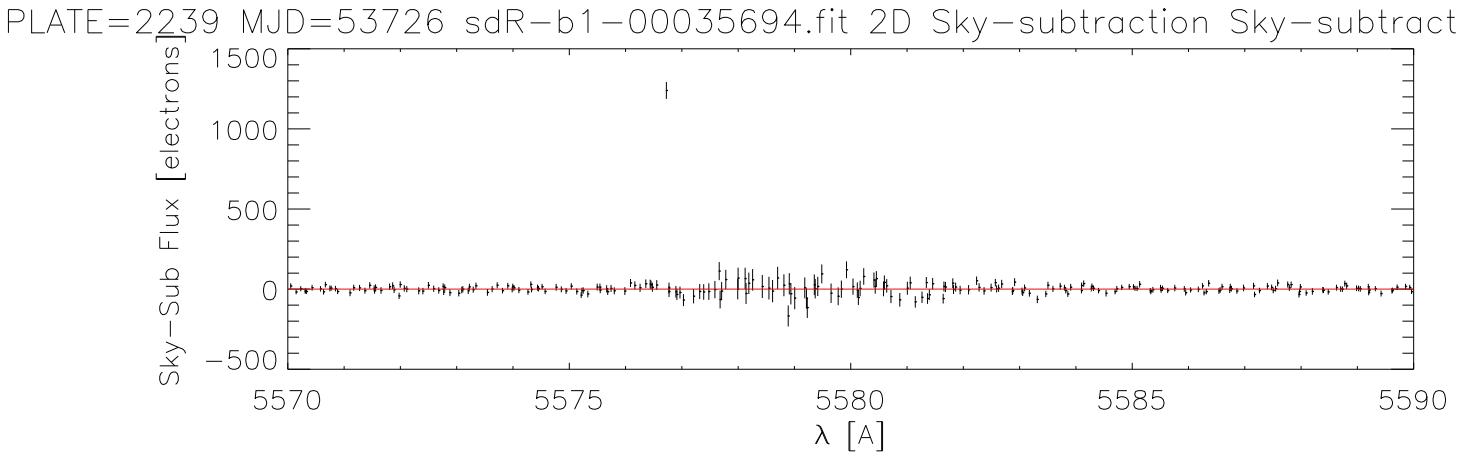

PLATE=2239 MJD=53726 sdR-b1-00035694.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

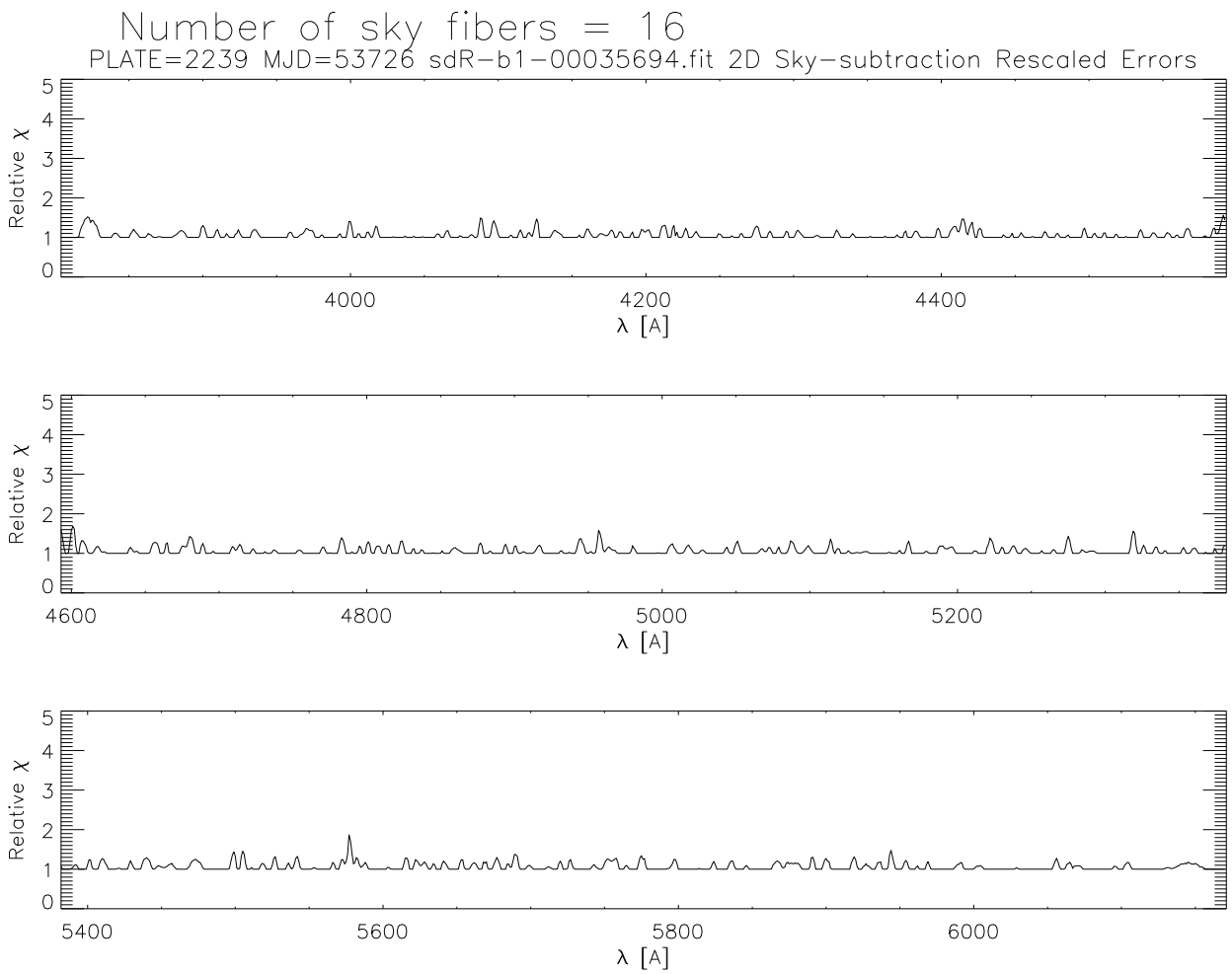

PLATE=2239 MJD=53726 sdR-b1-00035694.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

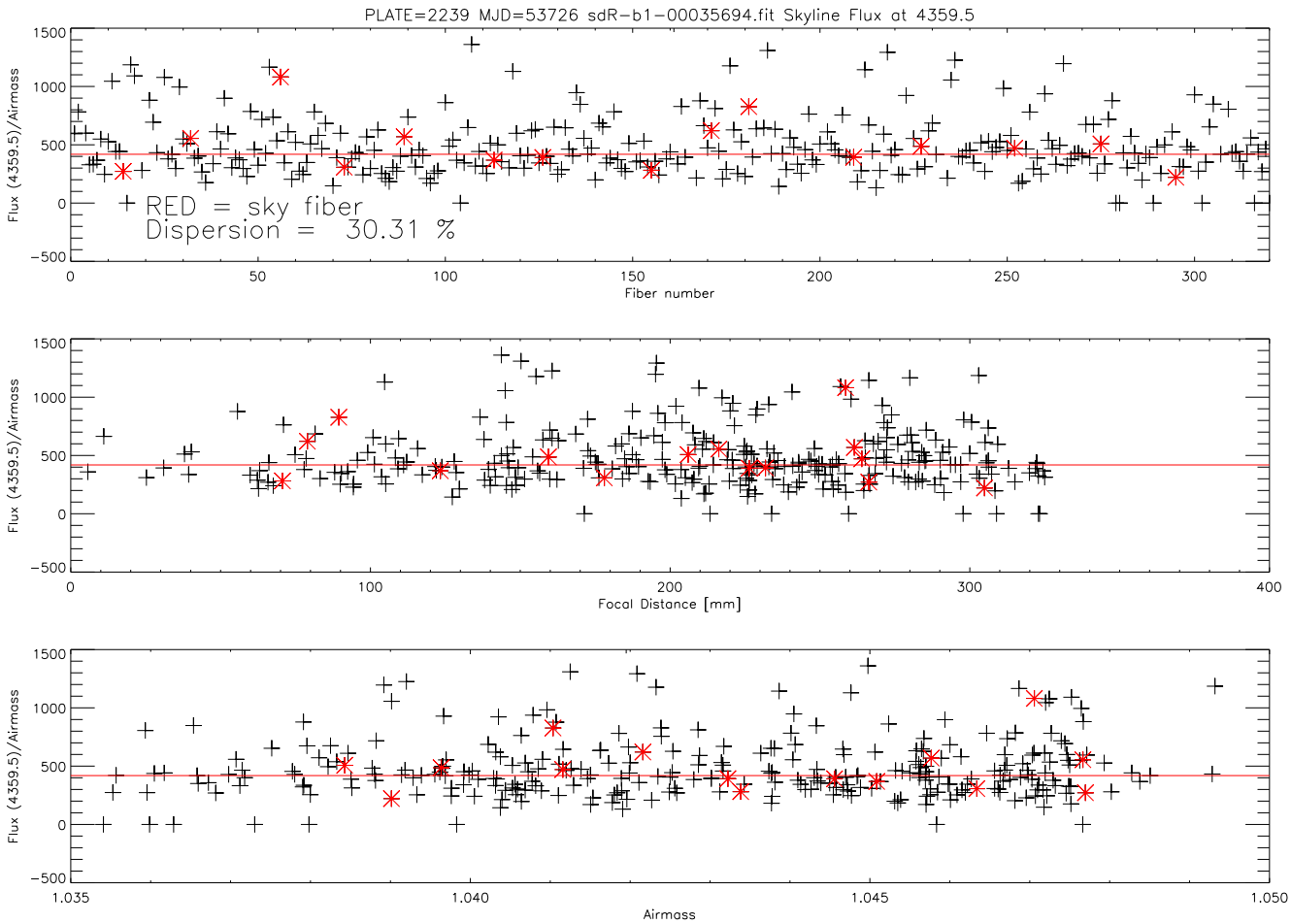

Number of sky fibers = 16
PLATE=2239 MJD=53726 sdR-b1-00035694.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

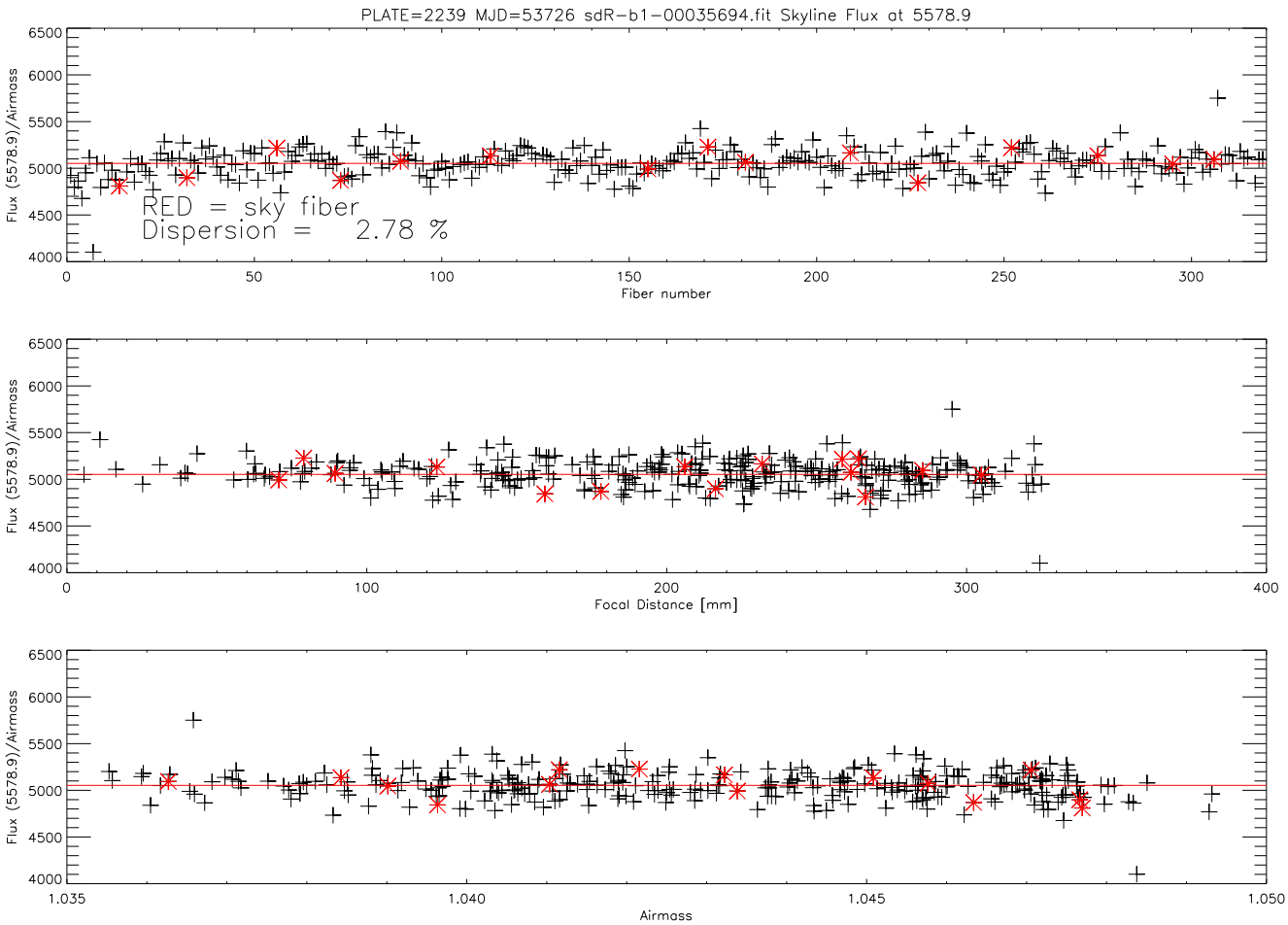

PLATE=2239 MJD=53726 sdR-b1-00035694.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

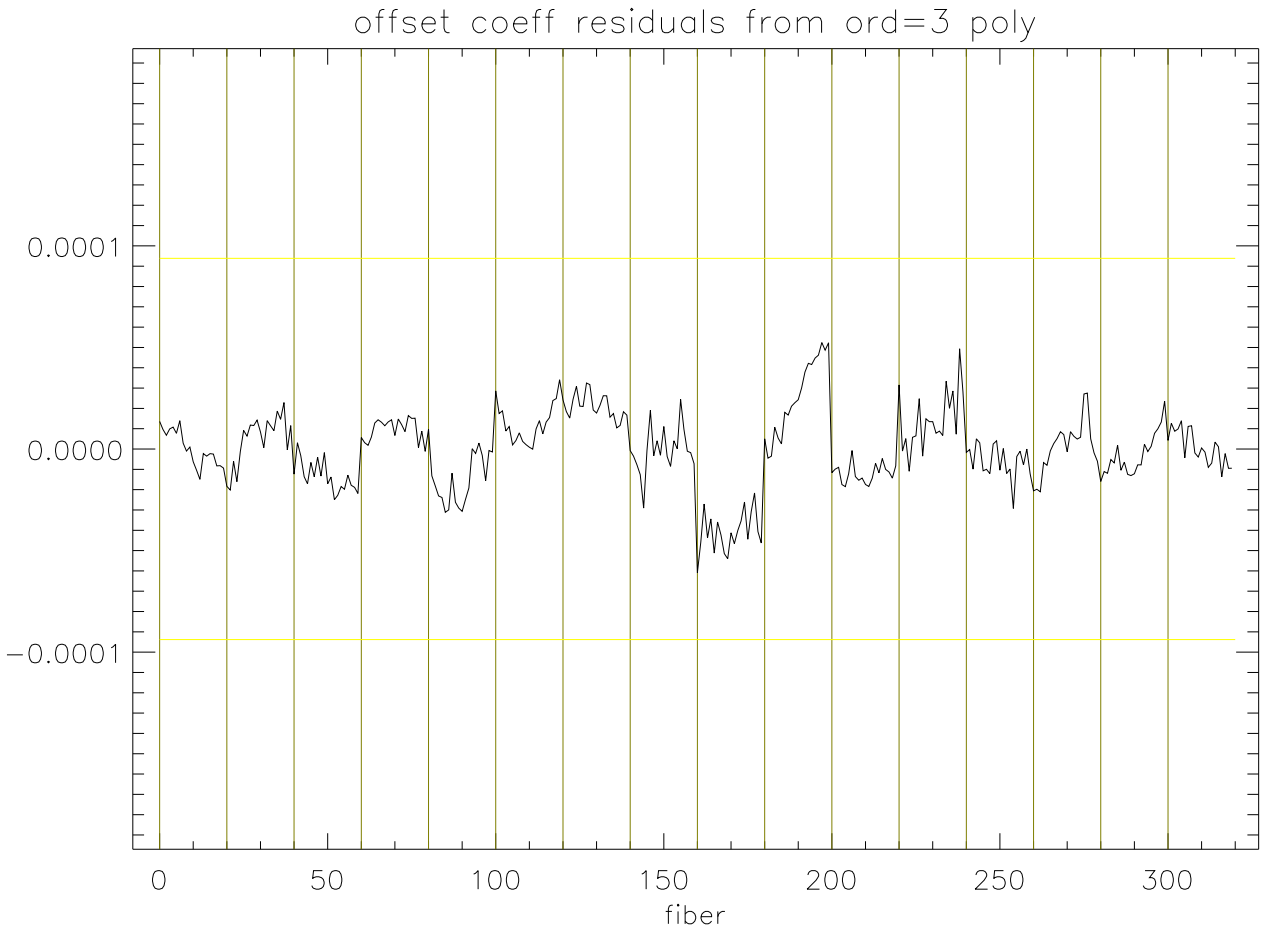

PLATE=2239 MJD=53726 sdR-b1-00035694.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

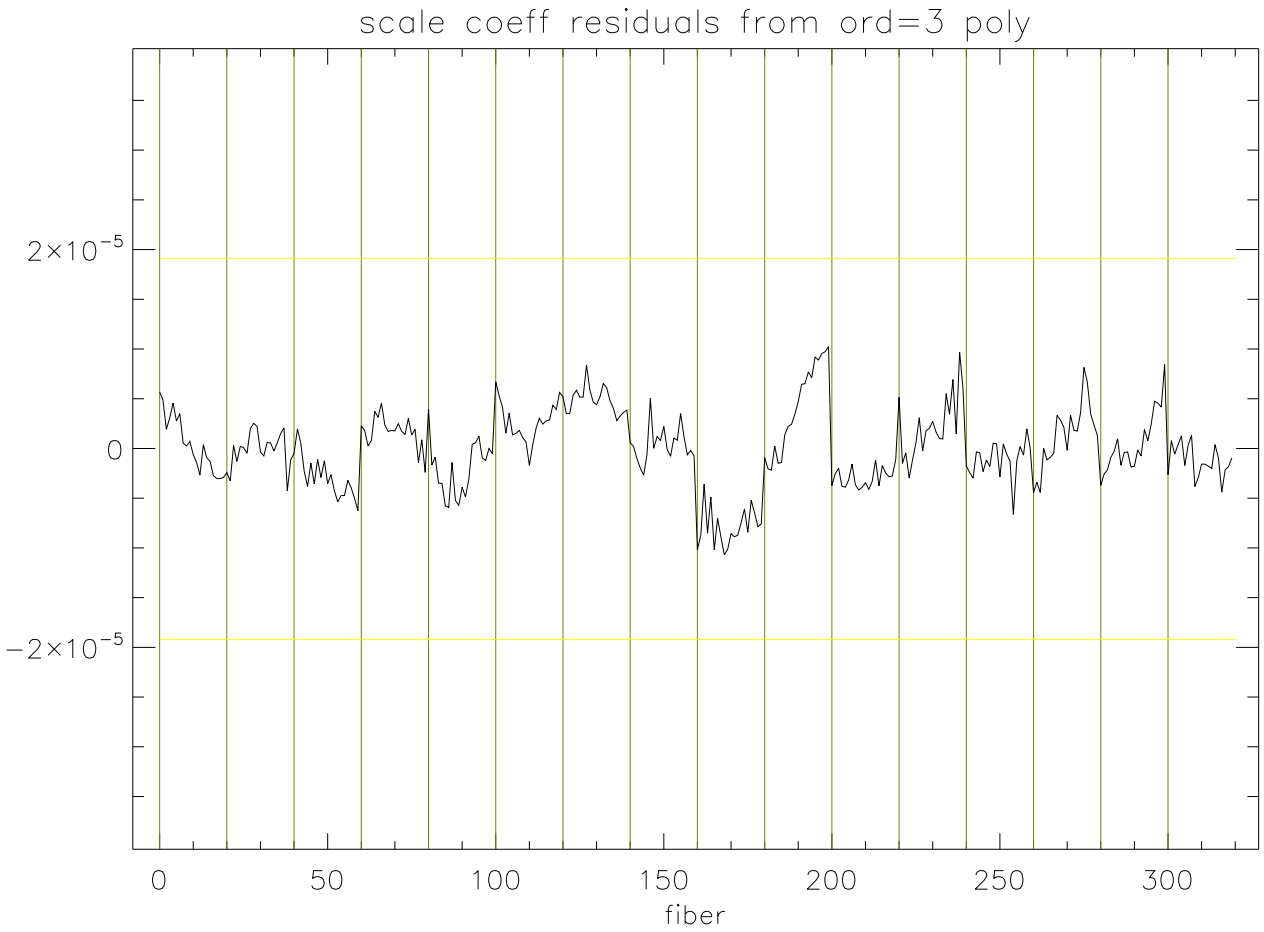

PLATE=2239 MJD=53726 sdR-b1-00035694.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

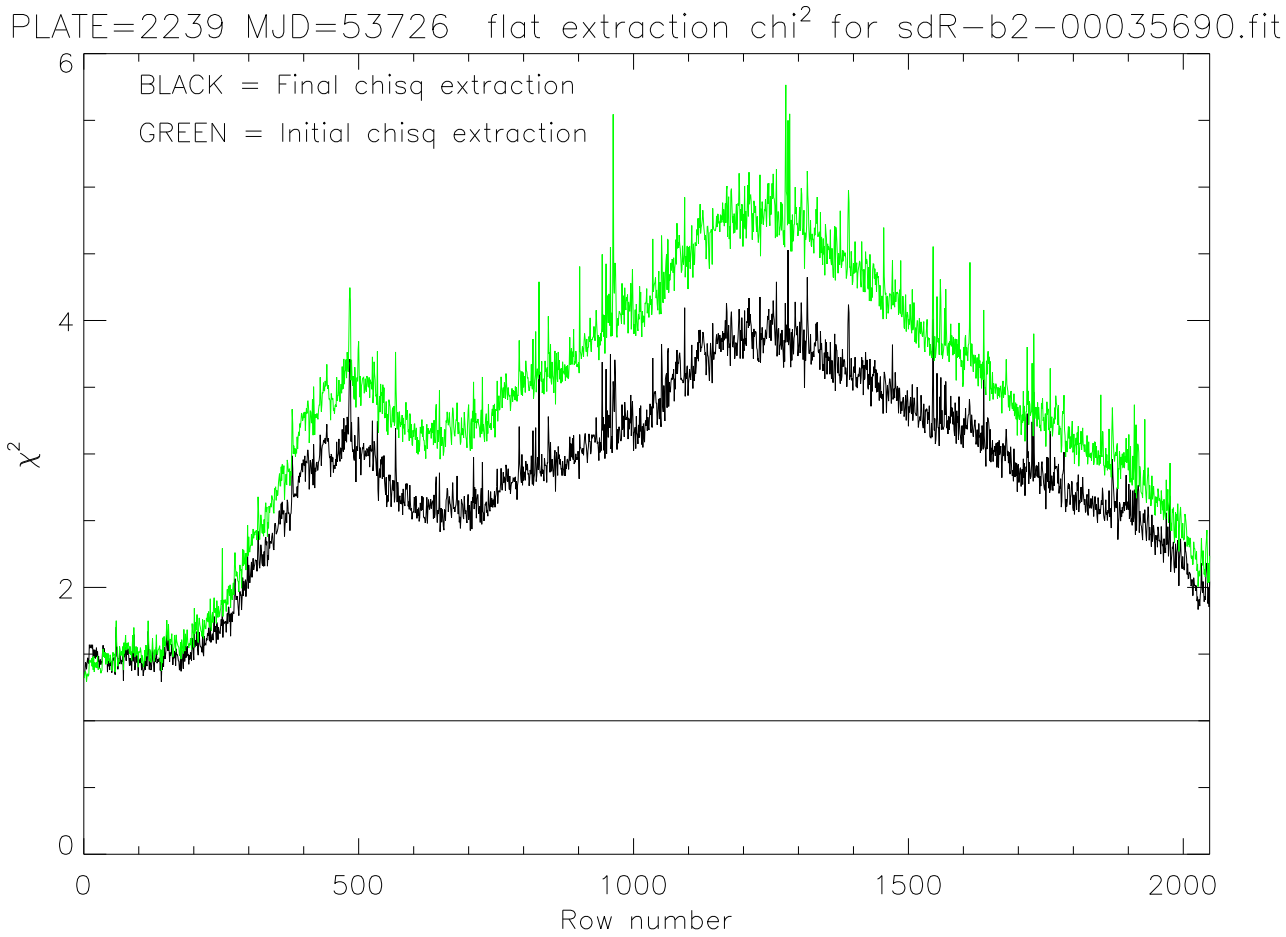

Number of sky fibers = 16
PLATE=2239 MJD=53726 sdR-b1-00035694.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

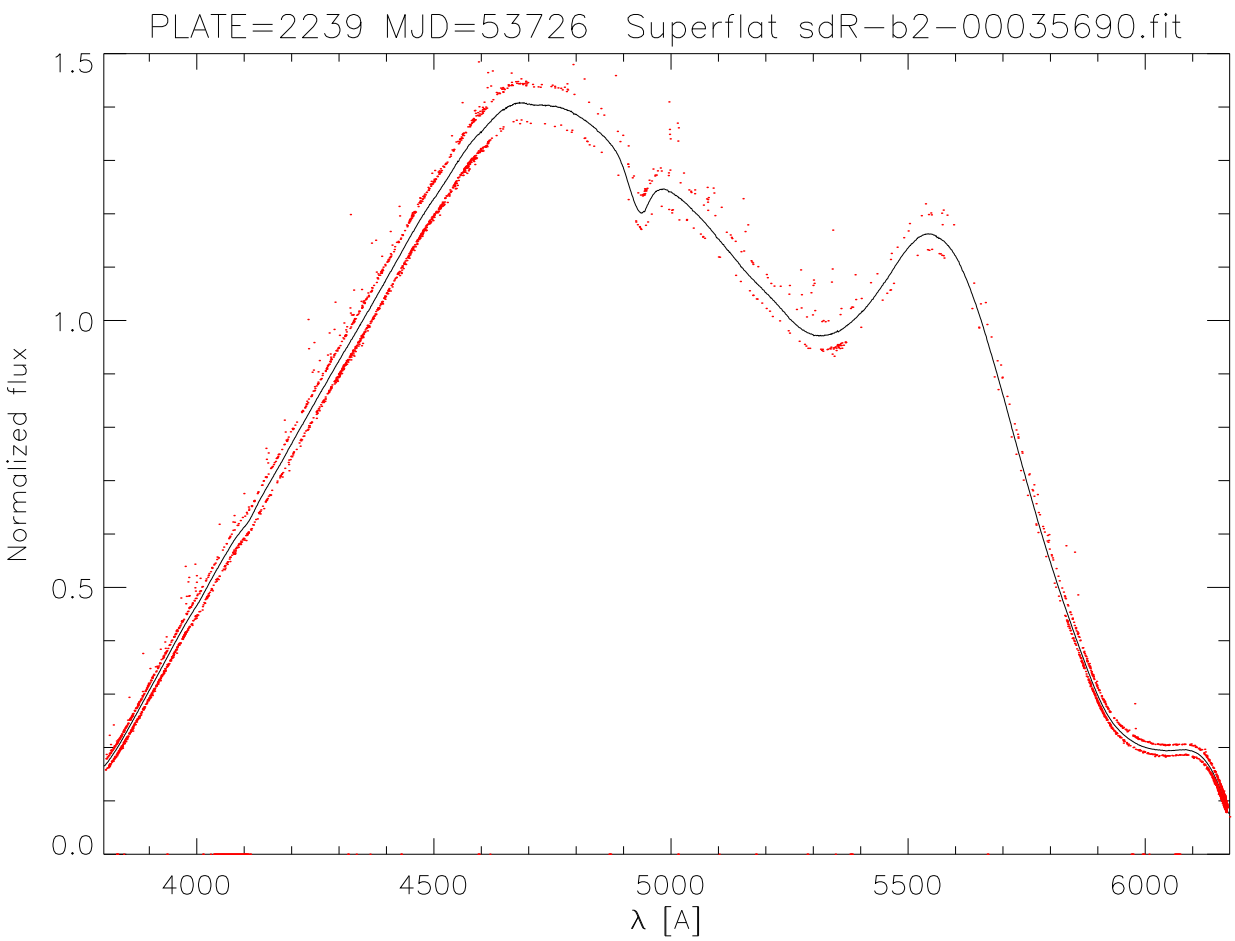

PLATE=2239 MJD=53726 sdR-b1-00035694.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 30.31 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

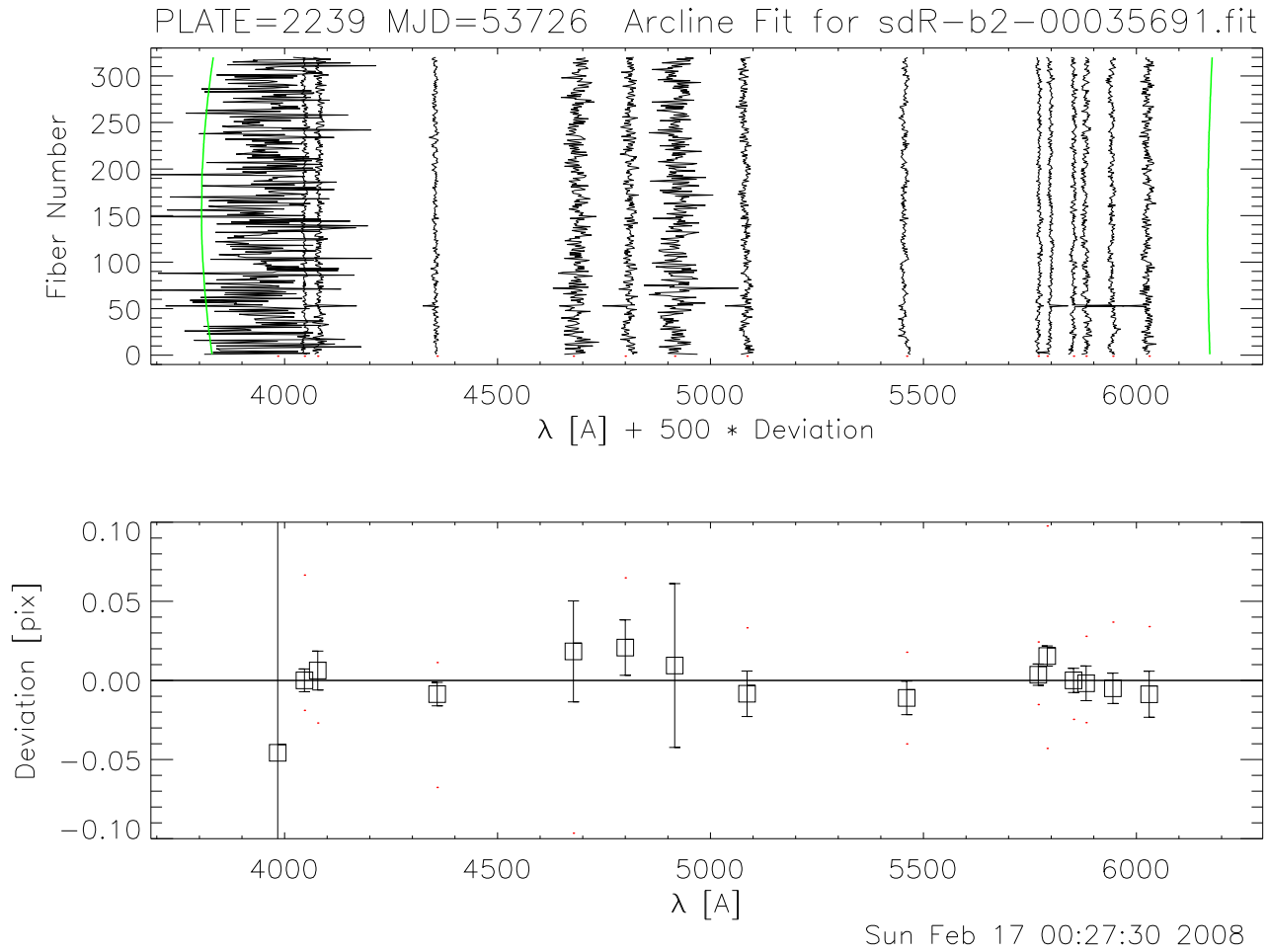

PLATE=2239 MJD=53726 sdR-b1-00035694.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.78 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

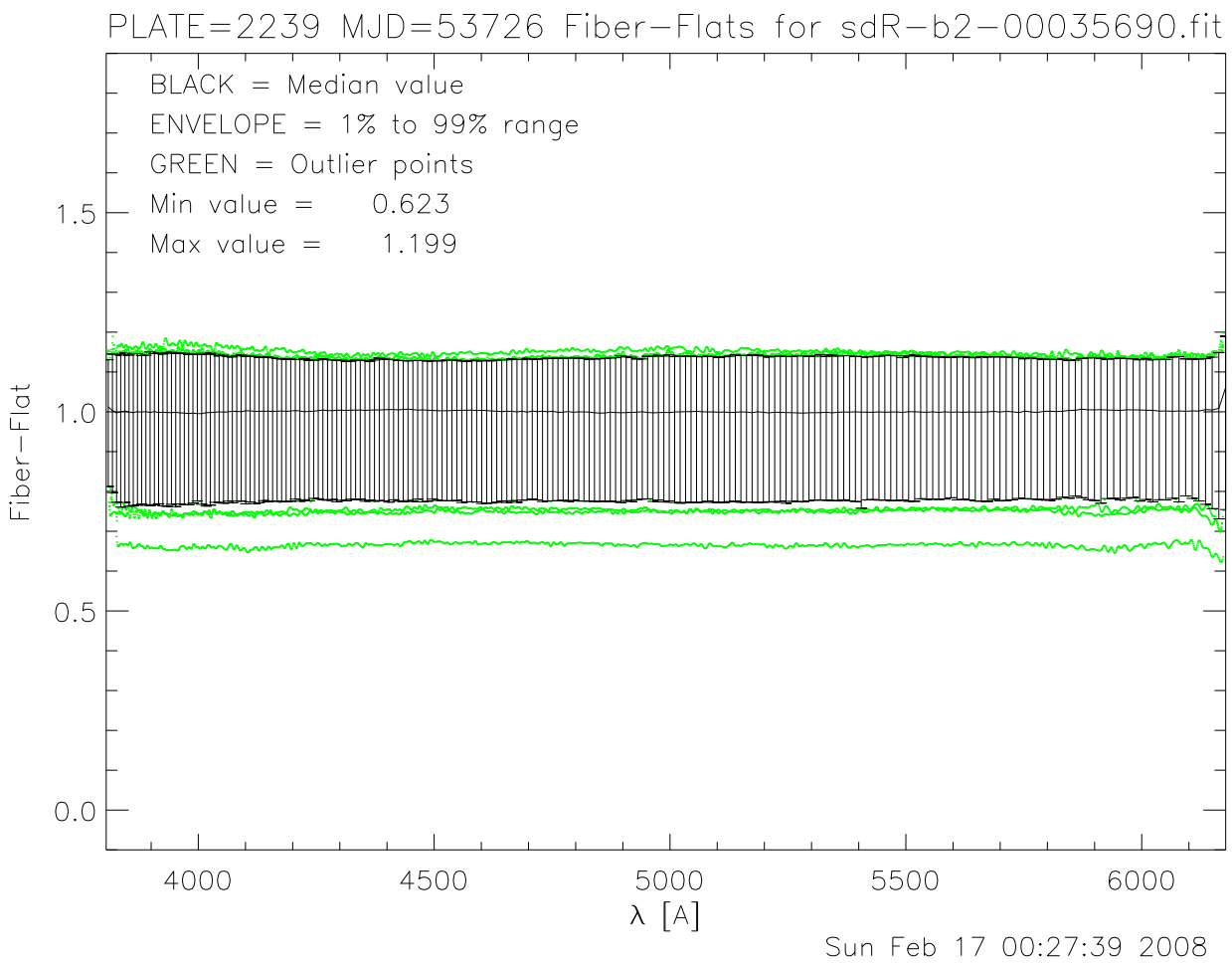

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

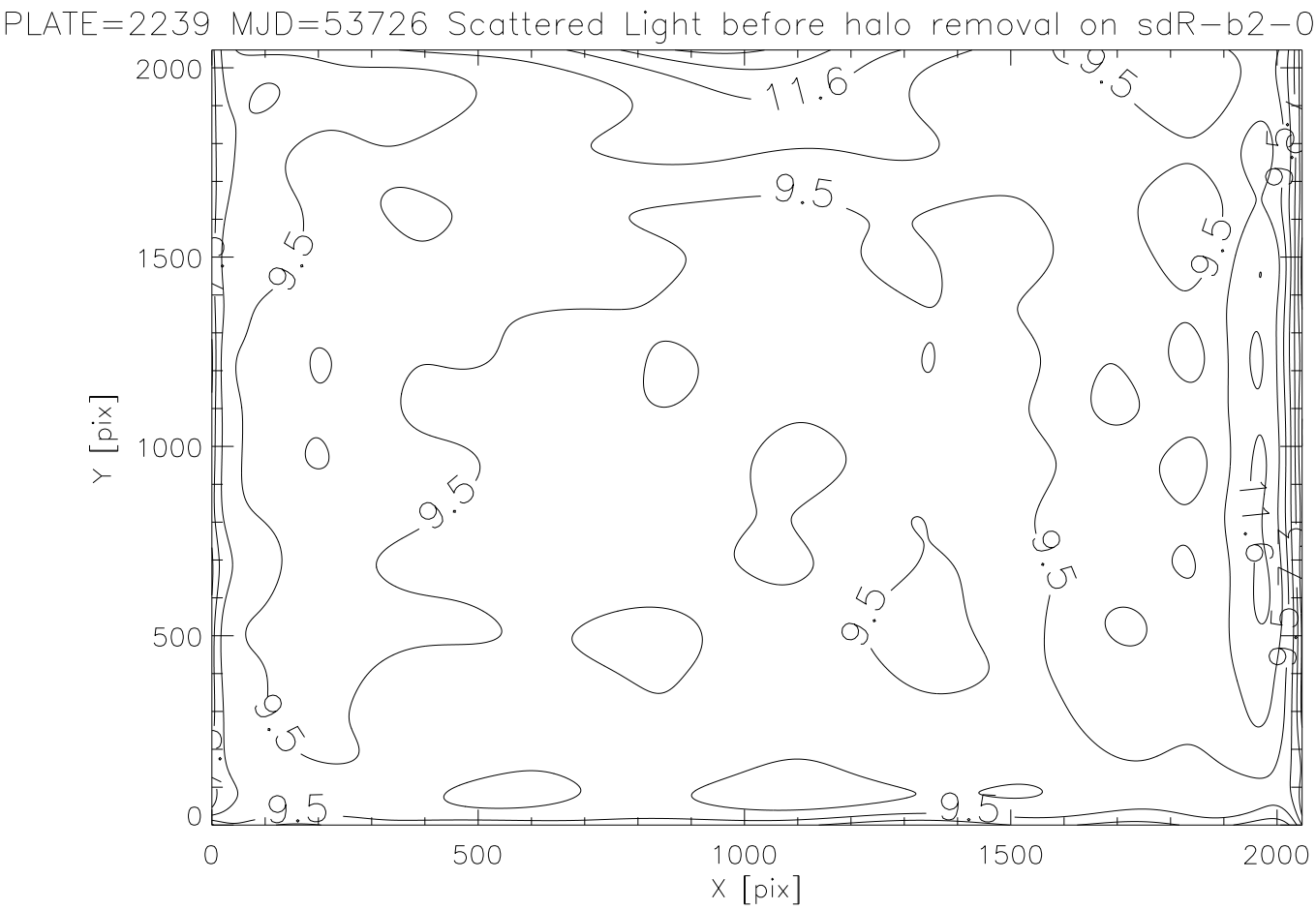

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

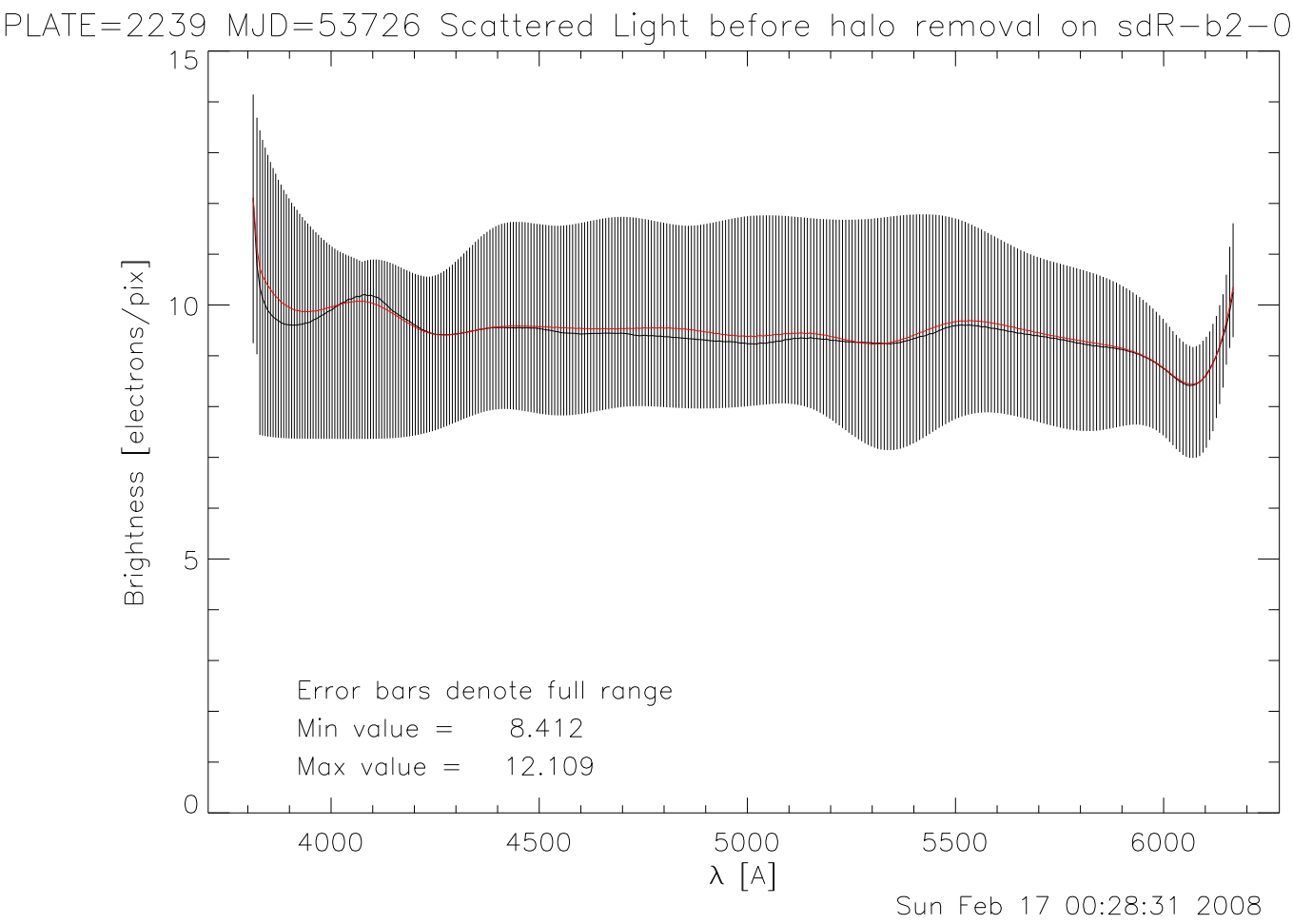

PLATE=2239 MJD=53726 flat extraction chi^2 for sdR−b2−00035690.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

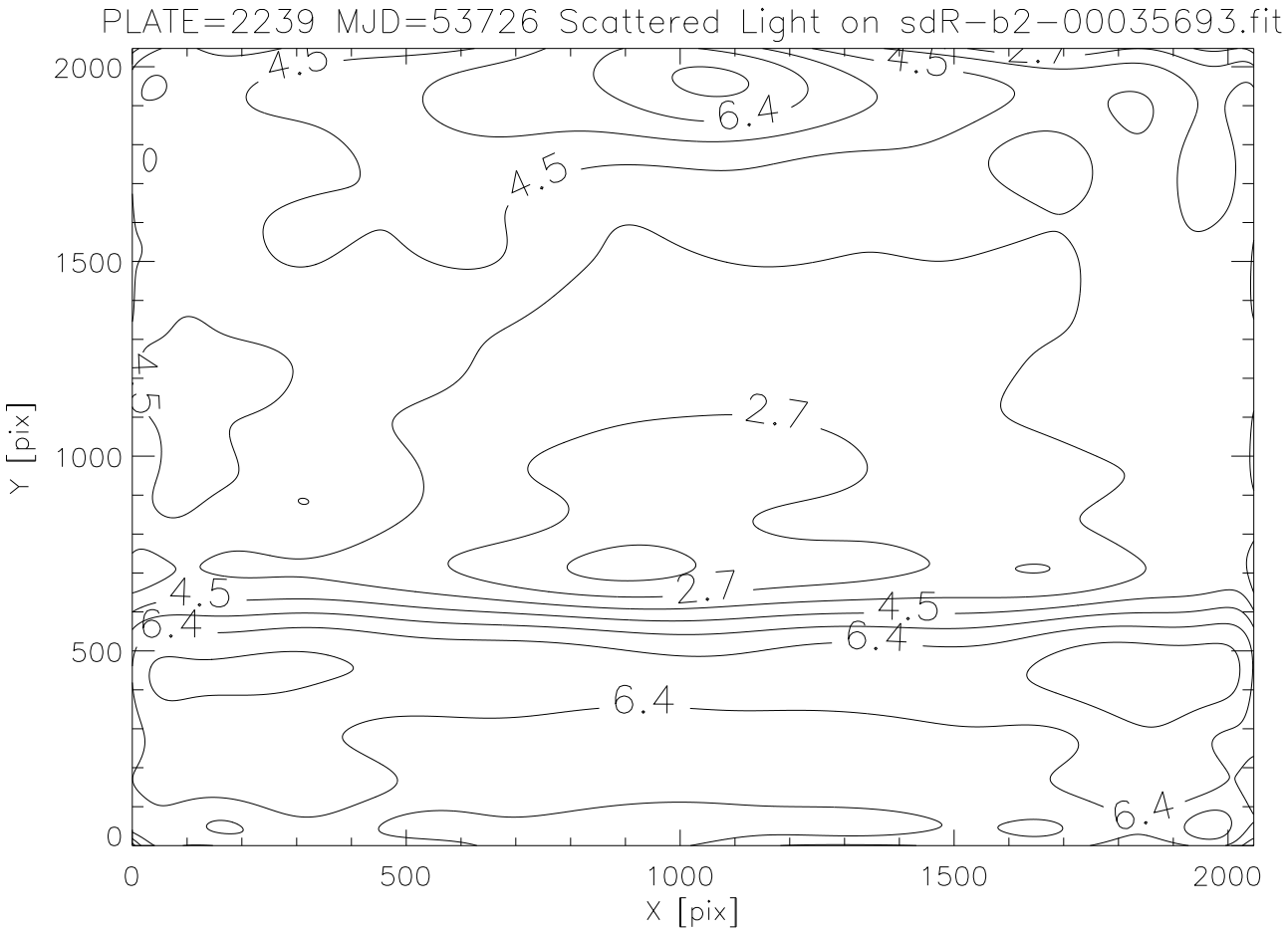

PLATE=2239 MJD=53726 Superflat sdR-b2-00035690.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

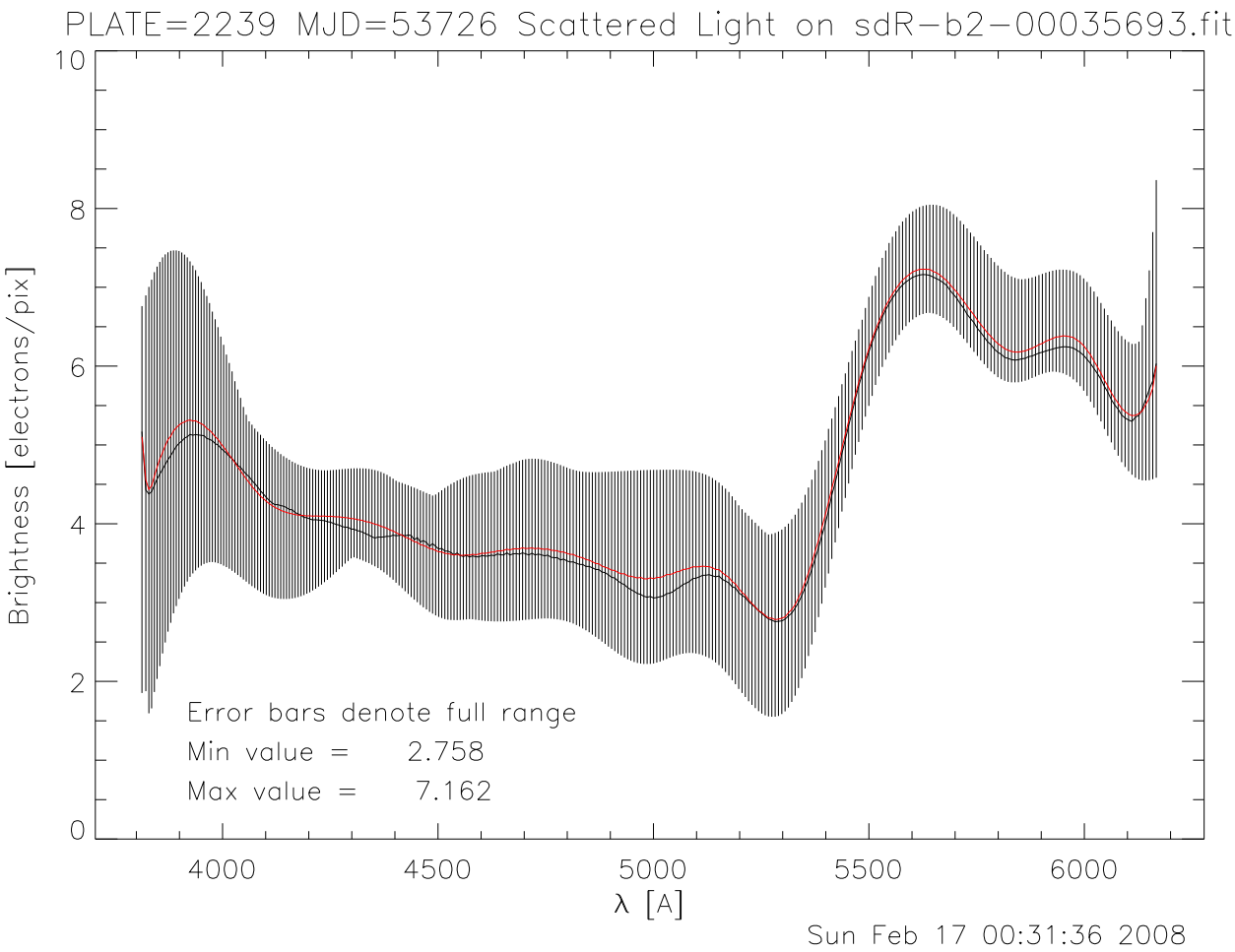

PLATE=2239 MJD=53726 Arcline Fit for sdR-b2-00035691.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Sun Feb 17 00:27:30 2008

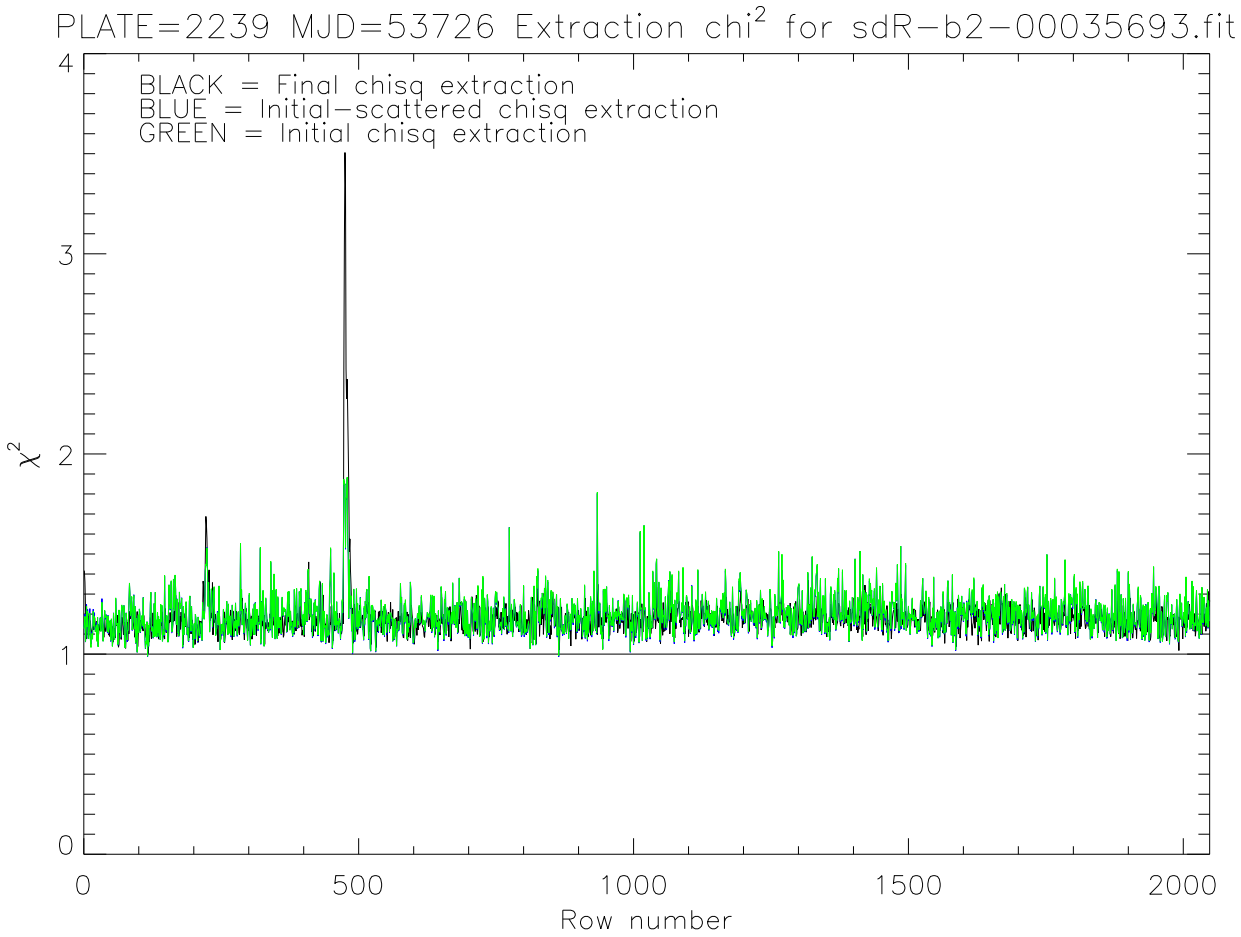

PLATE=2239 MJD=53726 Fiber-Flats for sdR-b2-00035690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.623
Max value = 1.199
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 17 00:27:39 2008

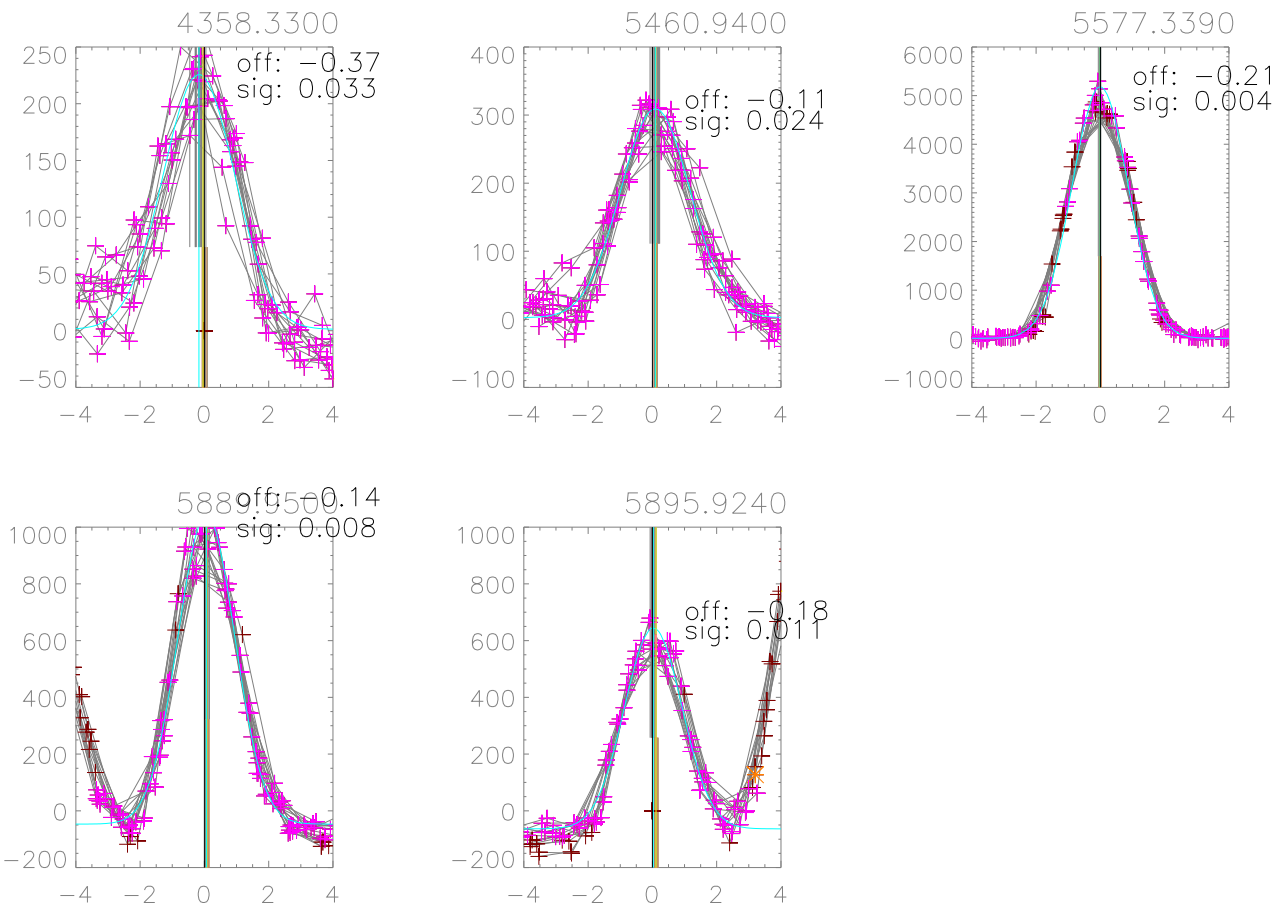

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR−b2−00035693.f
11.6
9.5
Y [pix]
X [pix]
0
500
1000
1500
2000

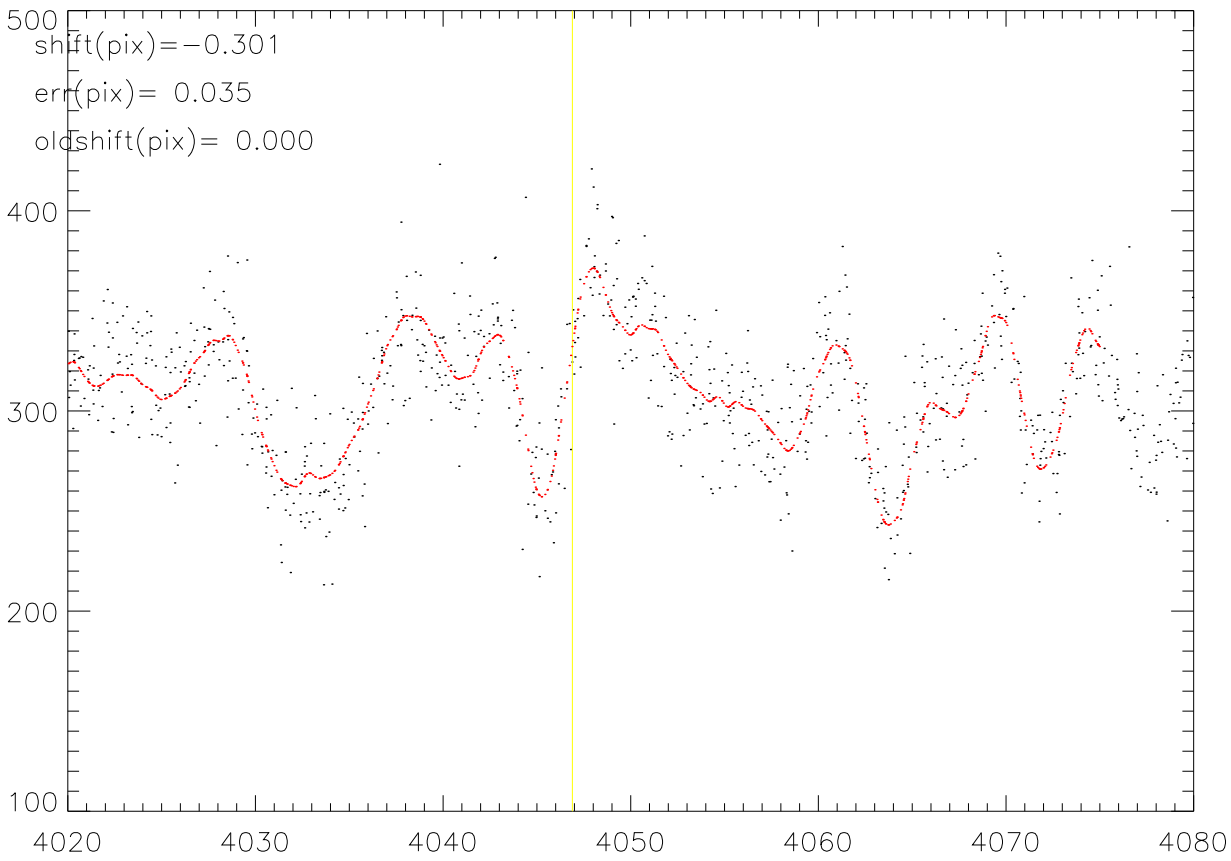

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR-b2-00035693.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.412
Max value = 12.109
Sun Feb 17 00:28:31 2008

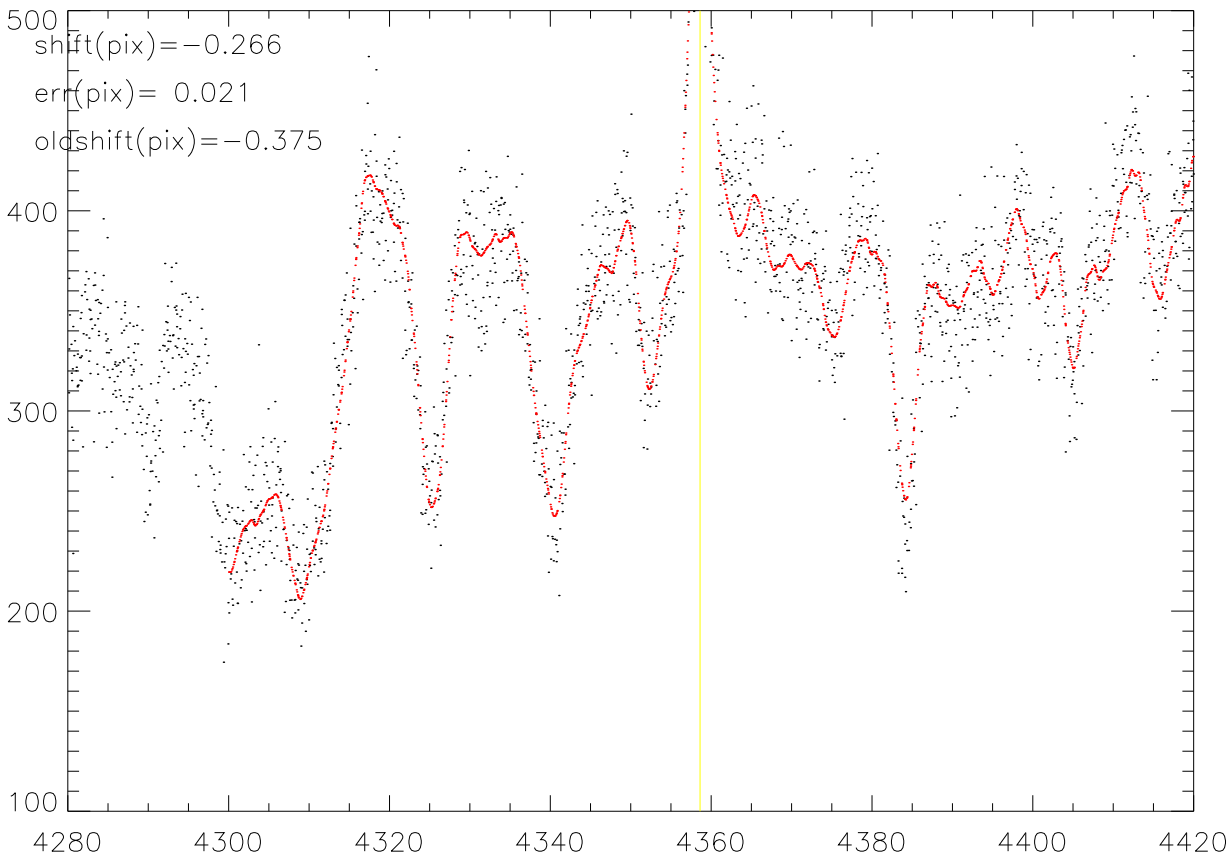

PLATE=2239 MJD=53726 Scattered Light on sdR-b2-00035693.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.5
6.4
2.7

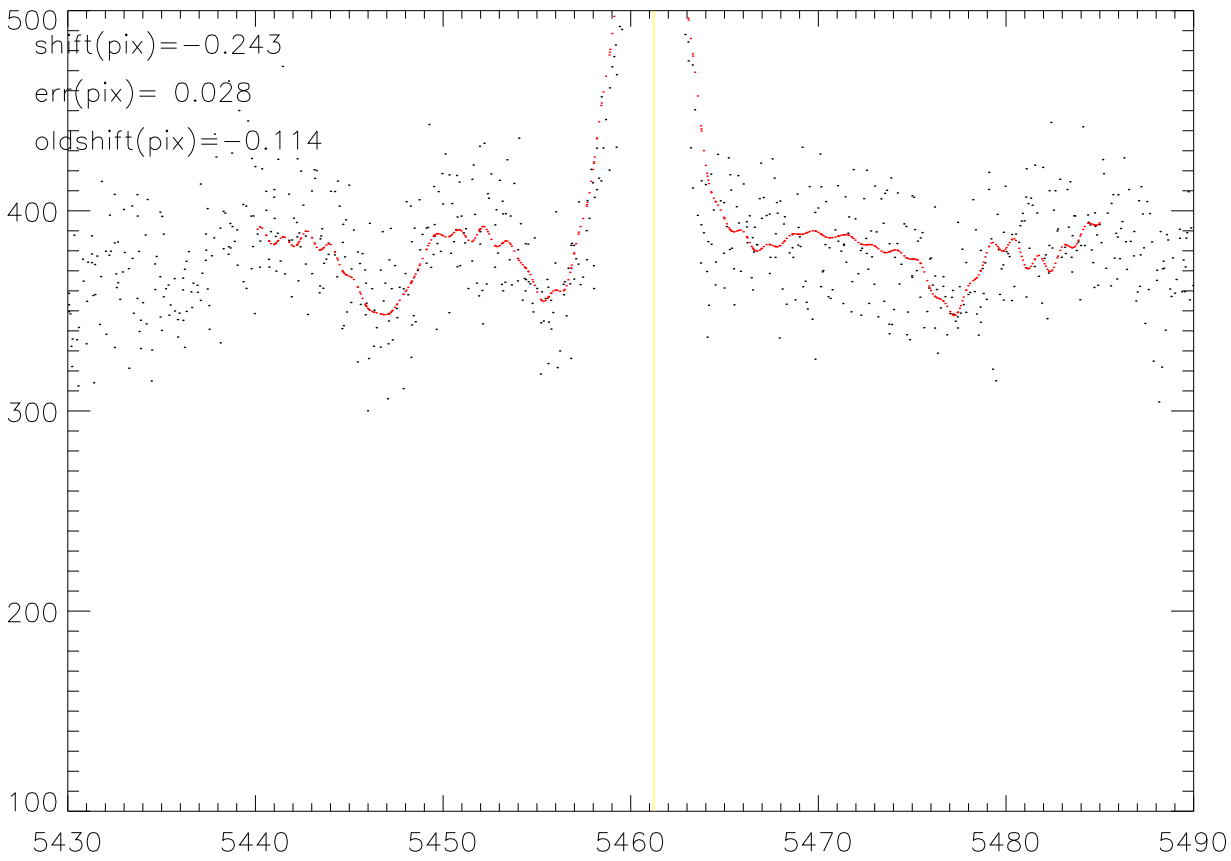

PLATE=2239 MJD=53726 Scattered Light on sdR-b2-00035693.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.758
Max value = 7.162
Sun Feb 17 00:31:36 2008

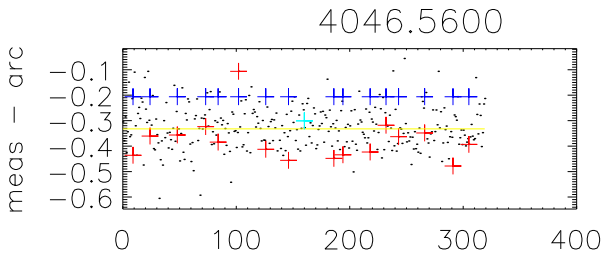

PLATE=2239 MJD=53726 Extraction chi^2 for sdR-b2-00035693.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

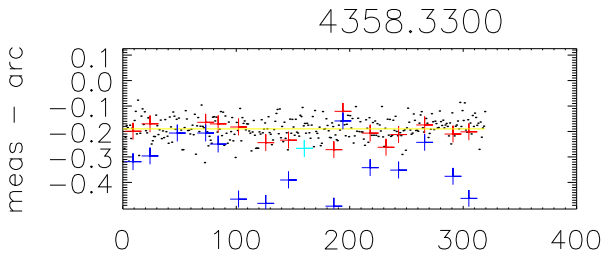

4358.3300
off: −0.37
sig: 0.033
5460.9400
off: −0.11
sig: 0.024
5577.3390
off: −0.21
sig: 0.004
5889.9509
off: −0.14
sig: 0.008
5895.9240
off: −0.18
sig: 0.011

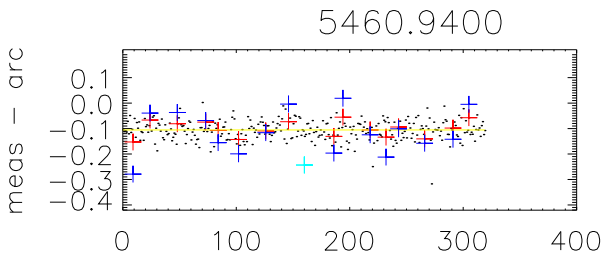

shift(pix)=−0.301
err(pix)= 0.035
oldshift(pix)= 0.000
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

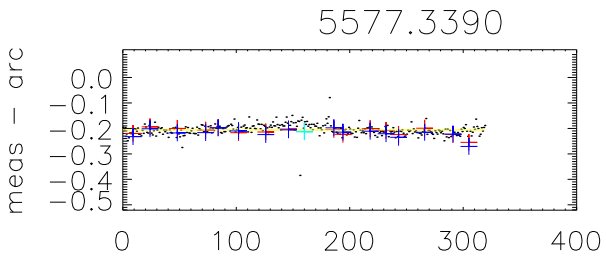

shift(pix)=−0.266
err(pix)= 0.021
oldshift(pix)=−0.375
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

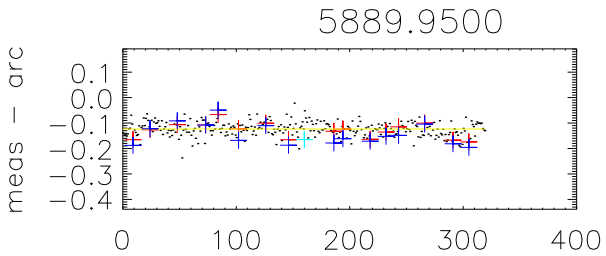

shift(pix)=−0.243
err(pix)= 0.028
oldshift(pix)=−0.114
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

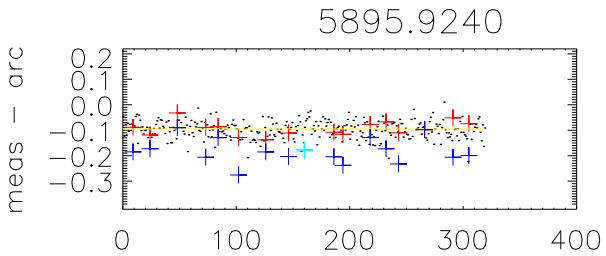

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

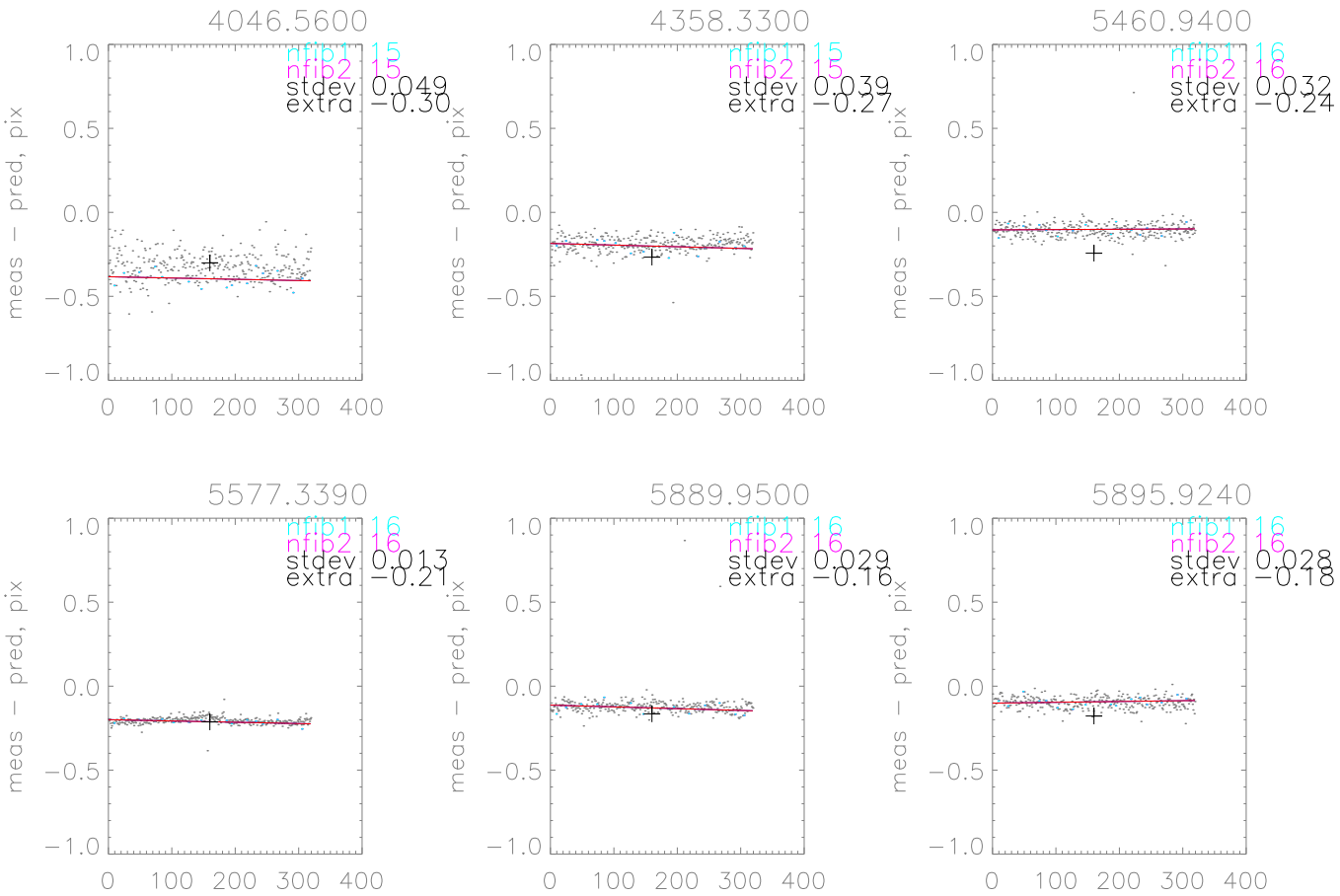

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

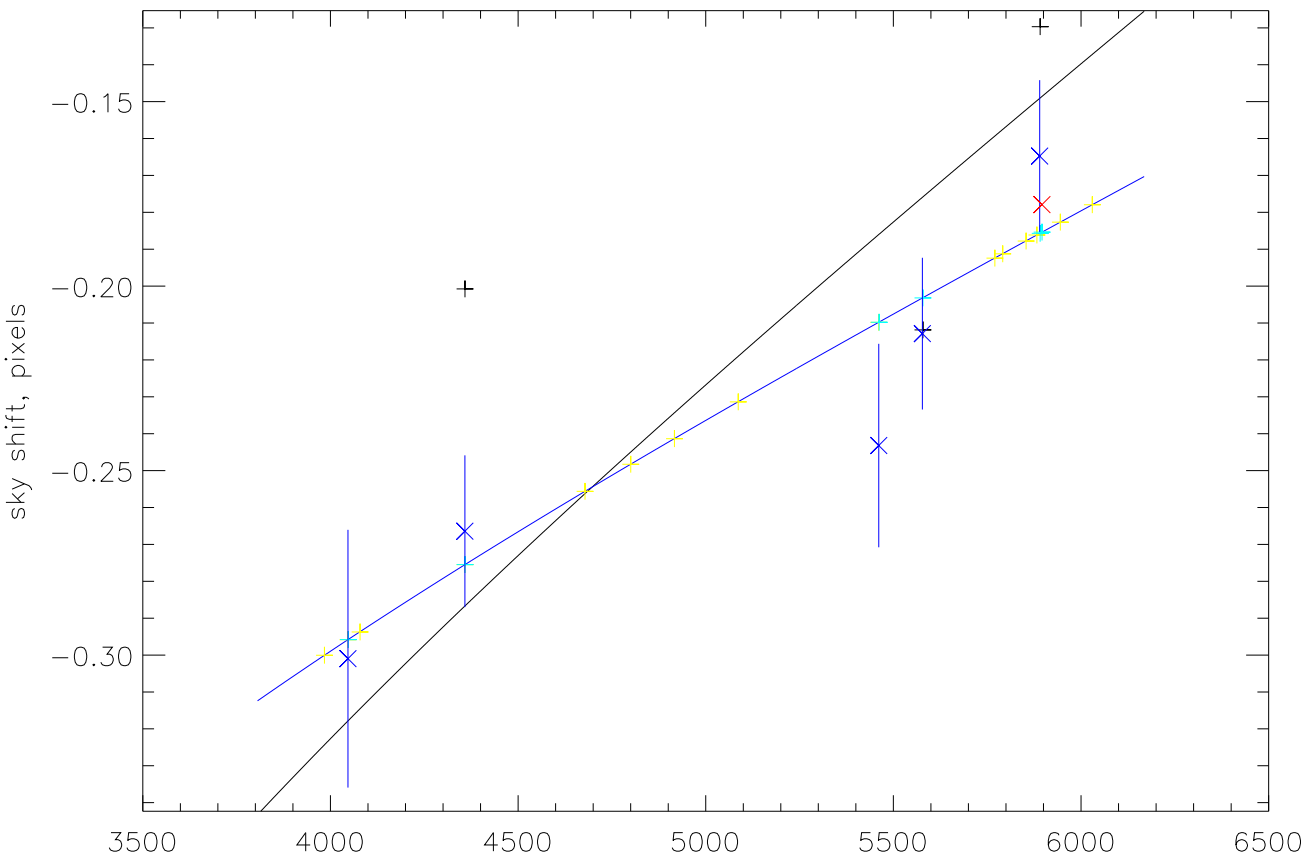

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

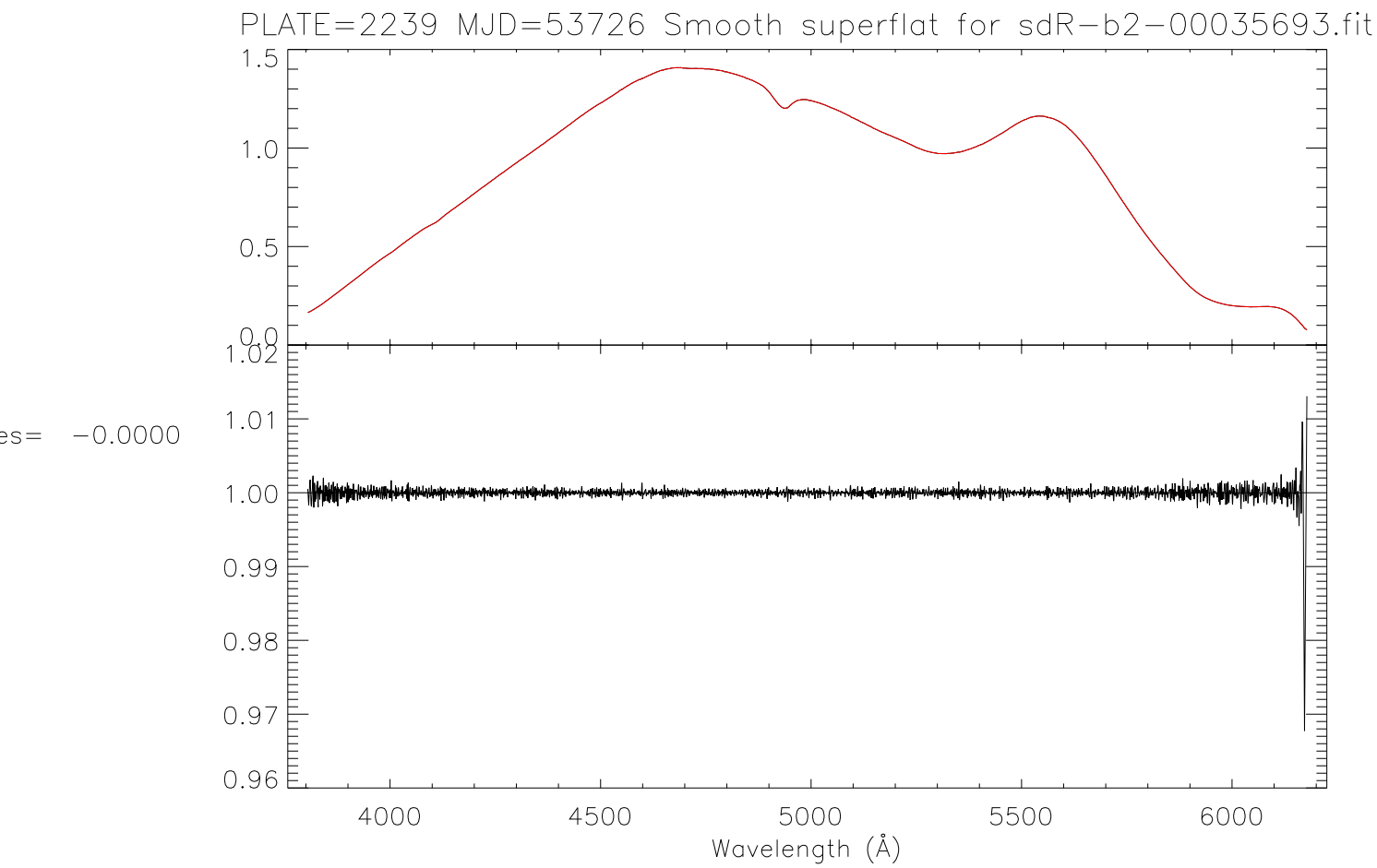

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

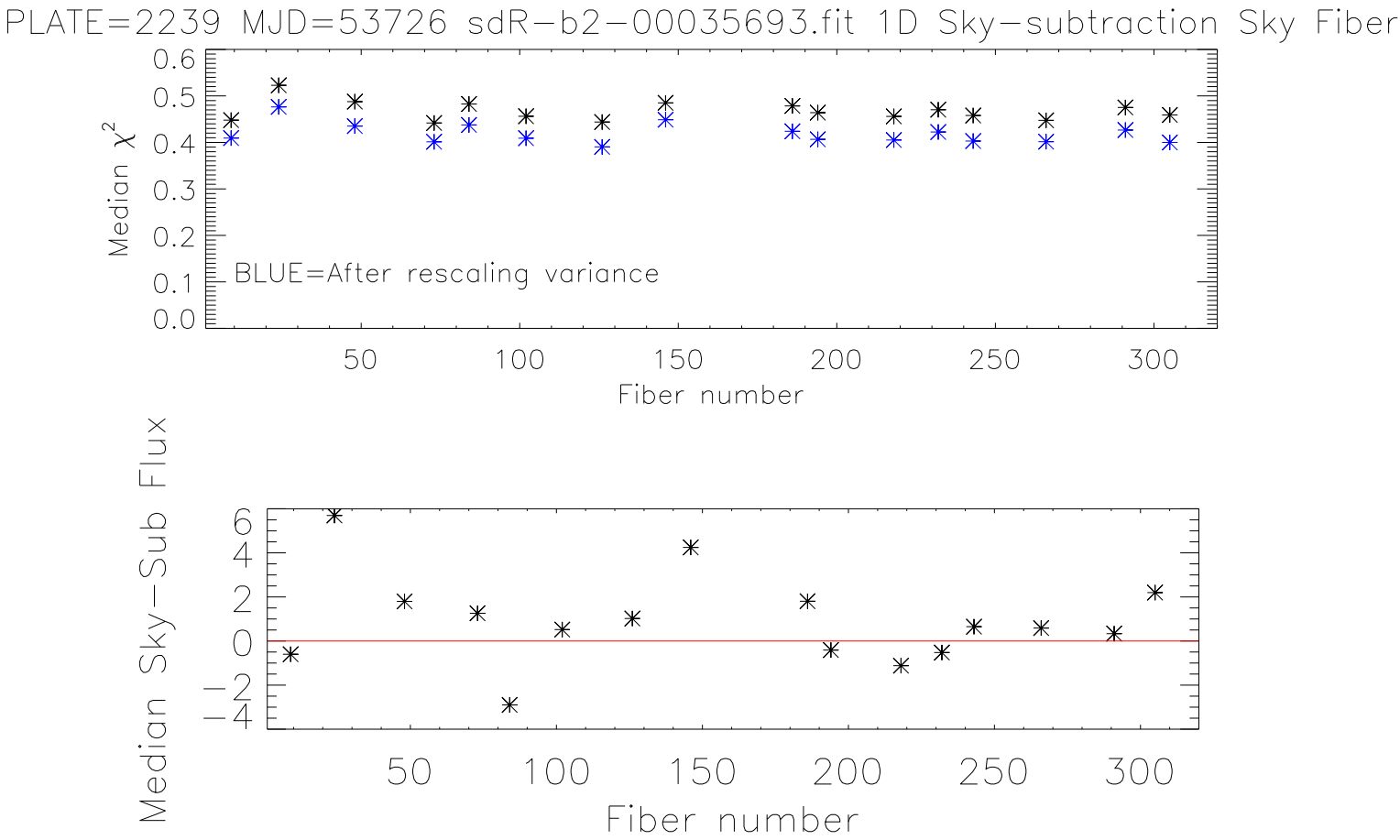

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

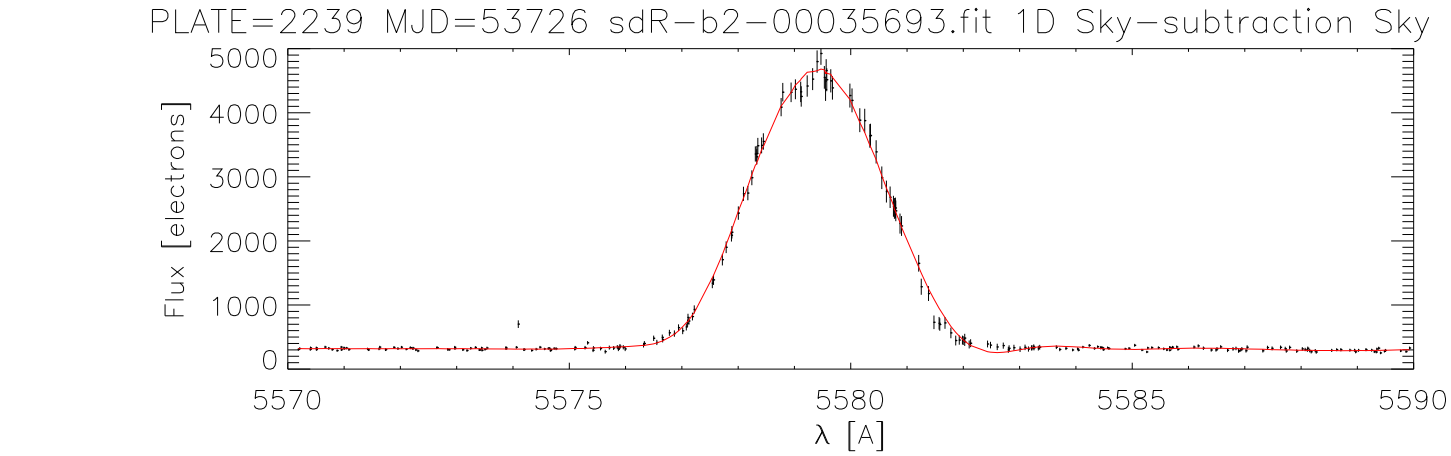

4046.5600
nfib1 15
nfib2 15
stdev 0.049
extra −0.30
4358.3300
nfib1 15
nfib2 15
stdev 0.039
extra −0.27
5460.9400
nfib1 16
nfib2 16
stdev 0.032
extra −0.24
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra −0.21
5889.9500
nfib1 16
nfib2 16
stdev 0.029
extra −0.16
5895.9240
nfib1 16
nfib2 16
stdev 0.028
extra −0.18
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

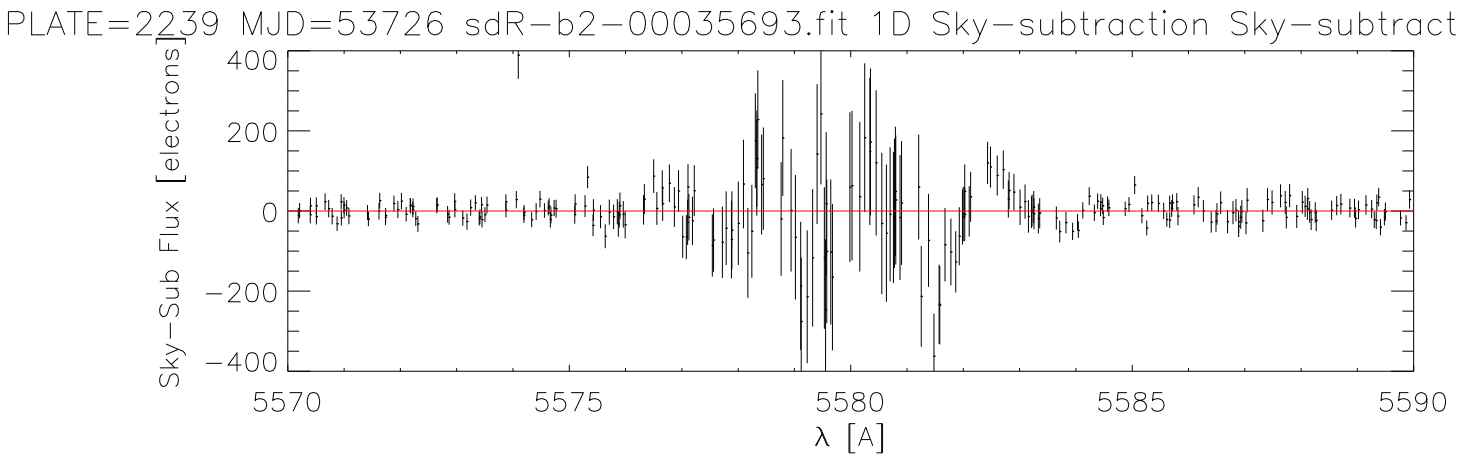

−0.15
−0.20
−0.25
−0.30
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

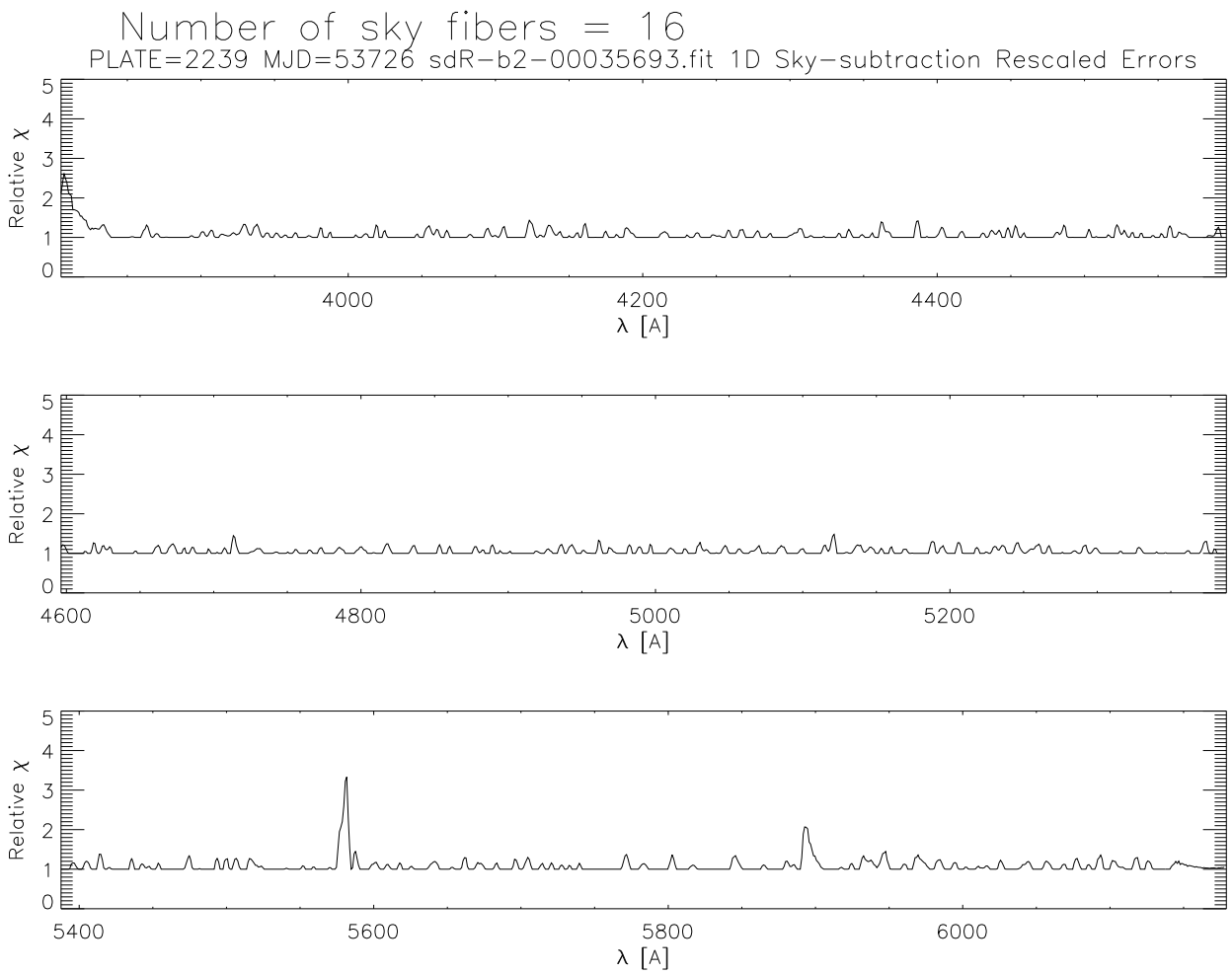

PLATE=2239 MJD=53726 Smooth superflat for sdR-b2-00035693.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
0.97
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

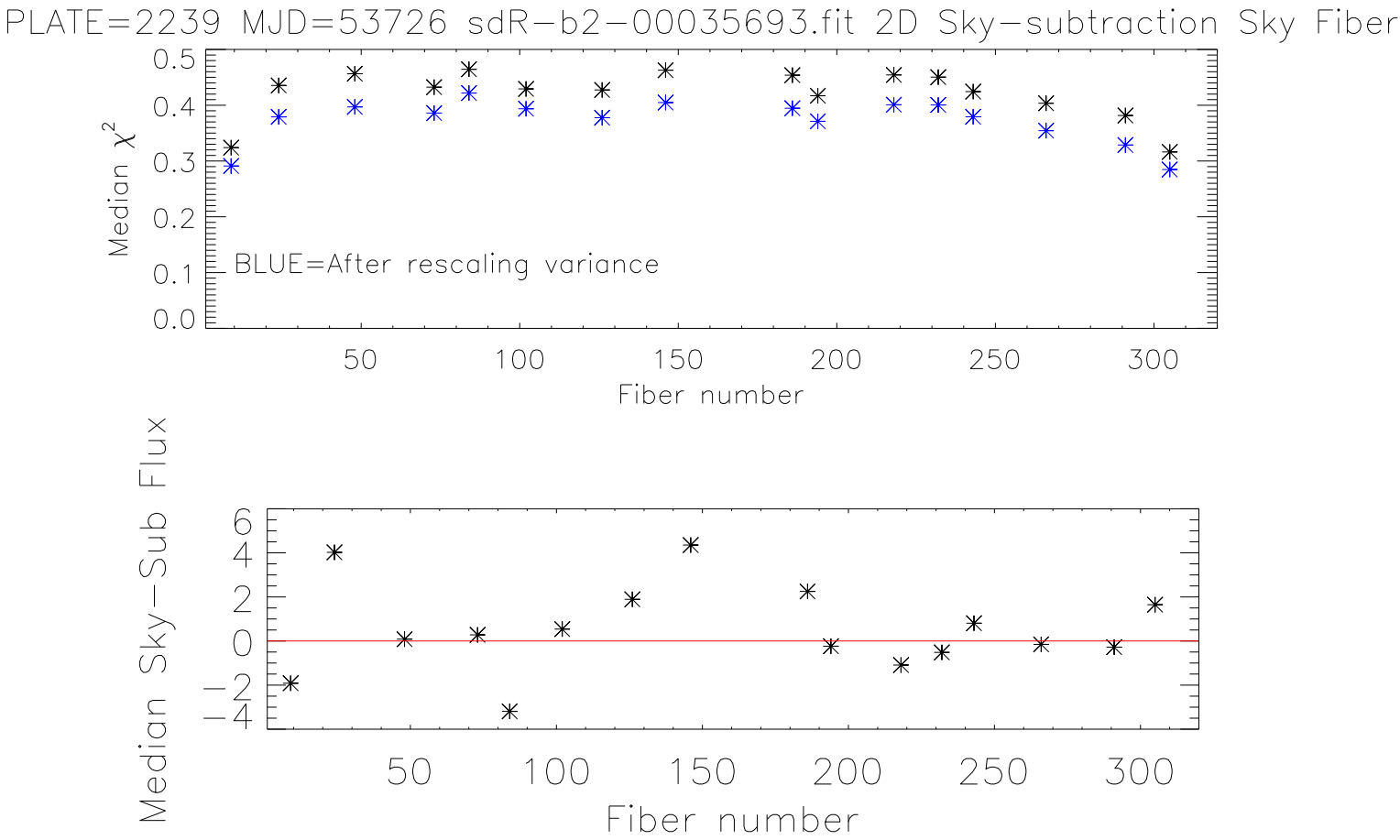
es= −0.0000

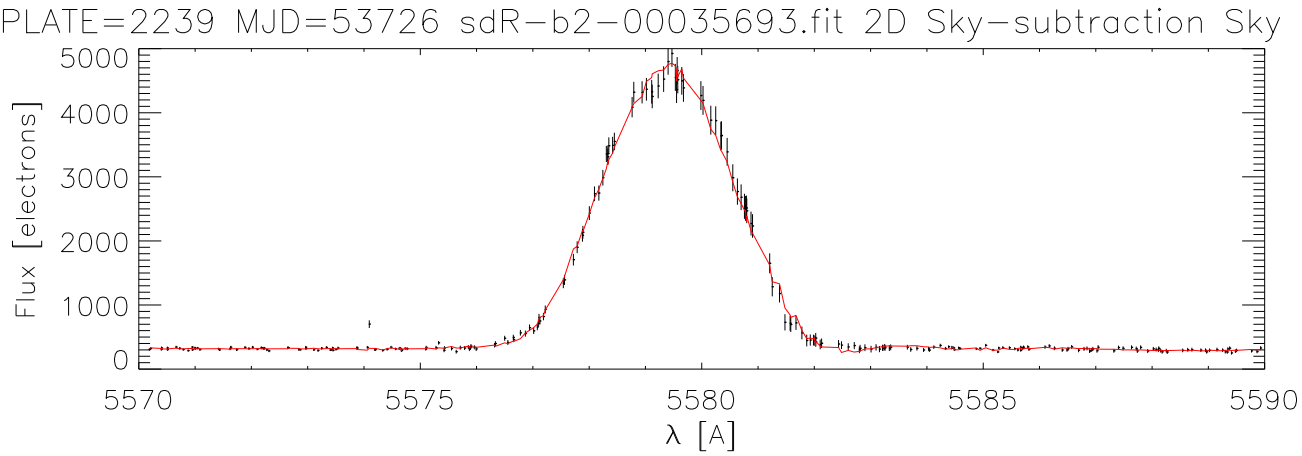

PLATE=2239 MJD=53726 sdR-b2-00035693.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

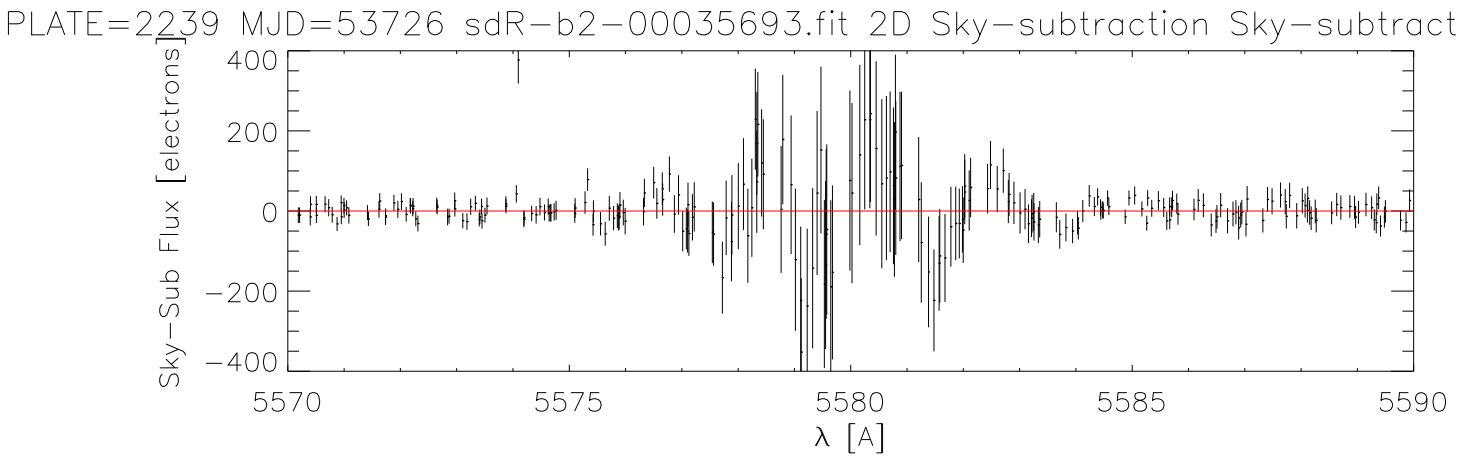

PLATE=2239 MJD=53726 sdR-b2-00035693.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

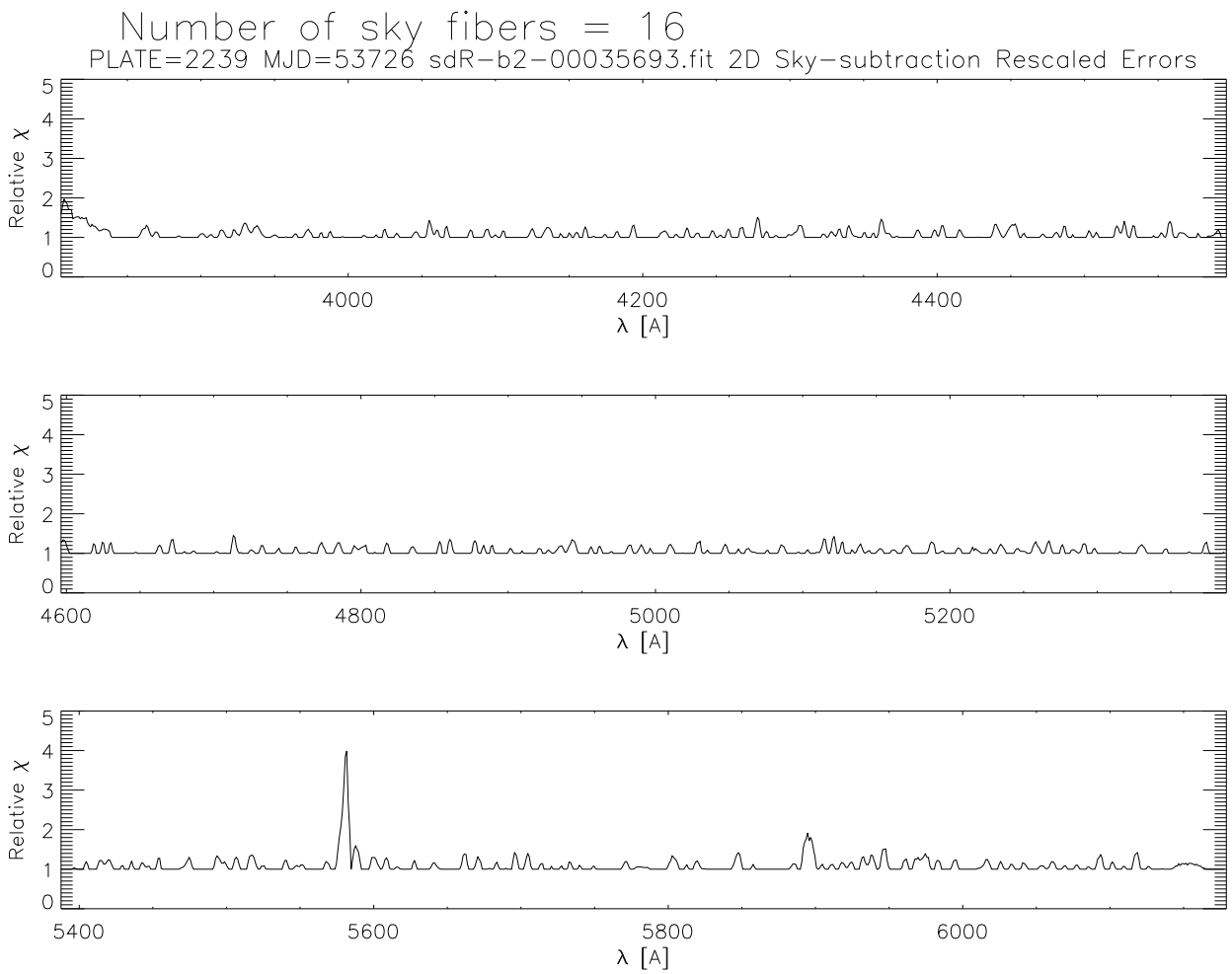

PLATE=2239 MJD=53726 sdR-b2-00035693.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

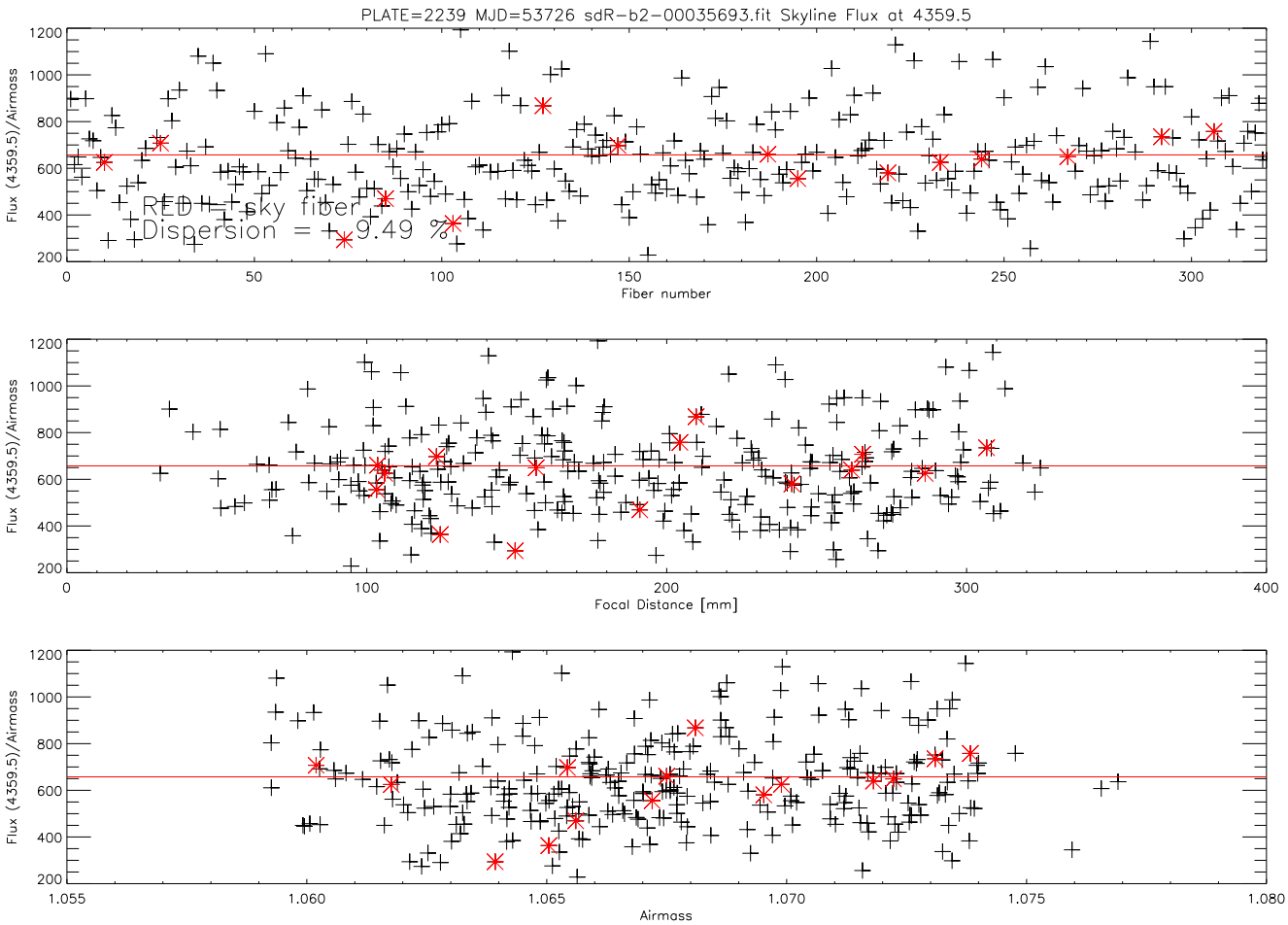

Number of sky fibers = 16
PLATE=2239 MJD=53726 sdR-b2-00035693.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

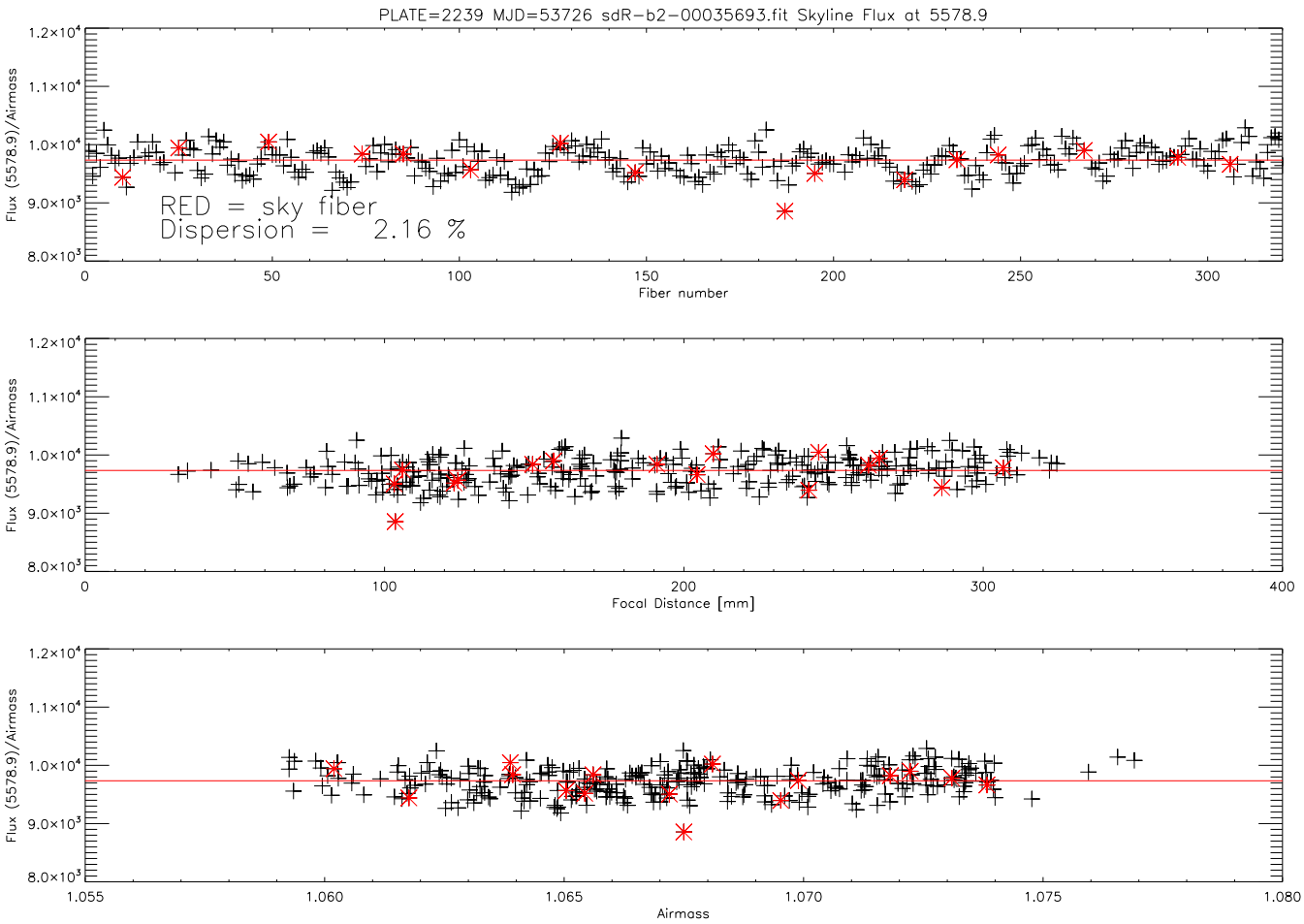

PLATE=2239 MJD=53726 sdR-b2-00035693.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

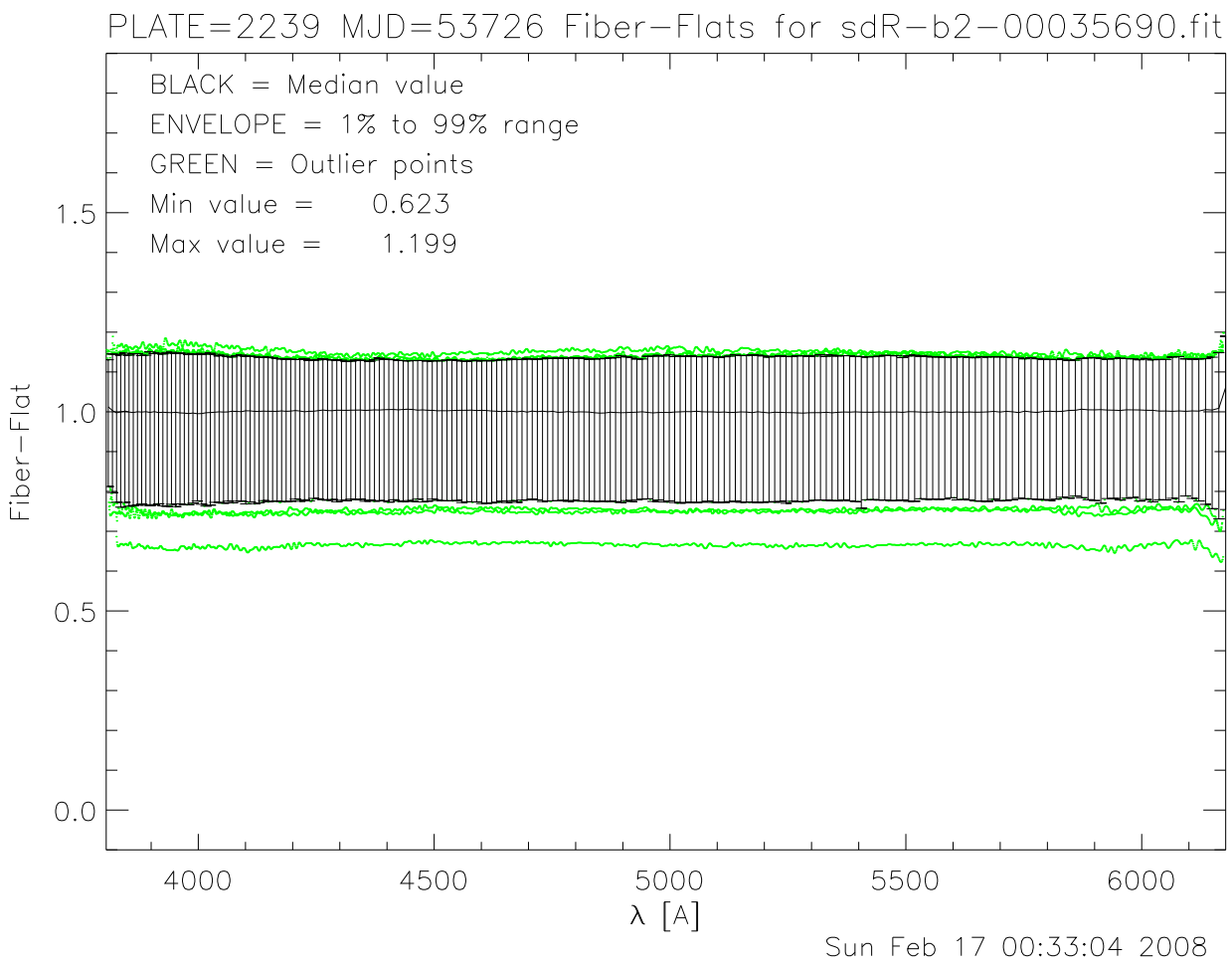

PLATE=2239 MJD=53726 sdR-b2-00035693.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

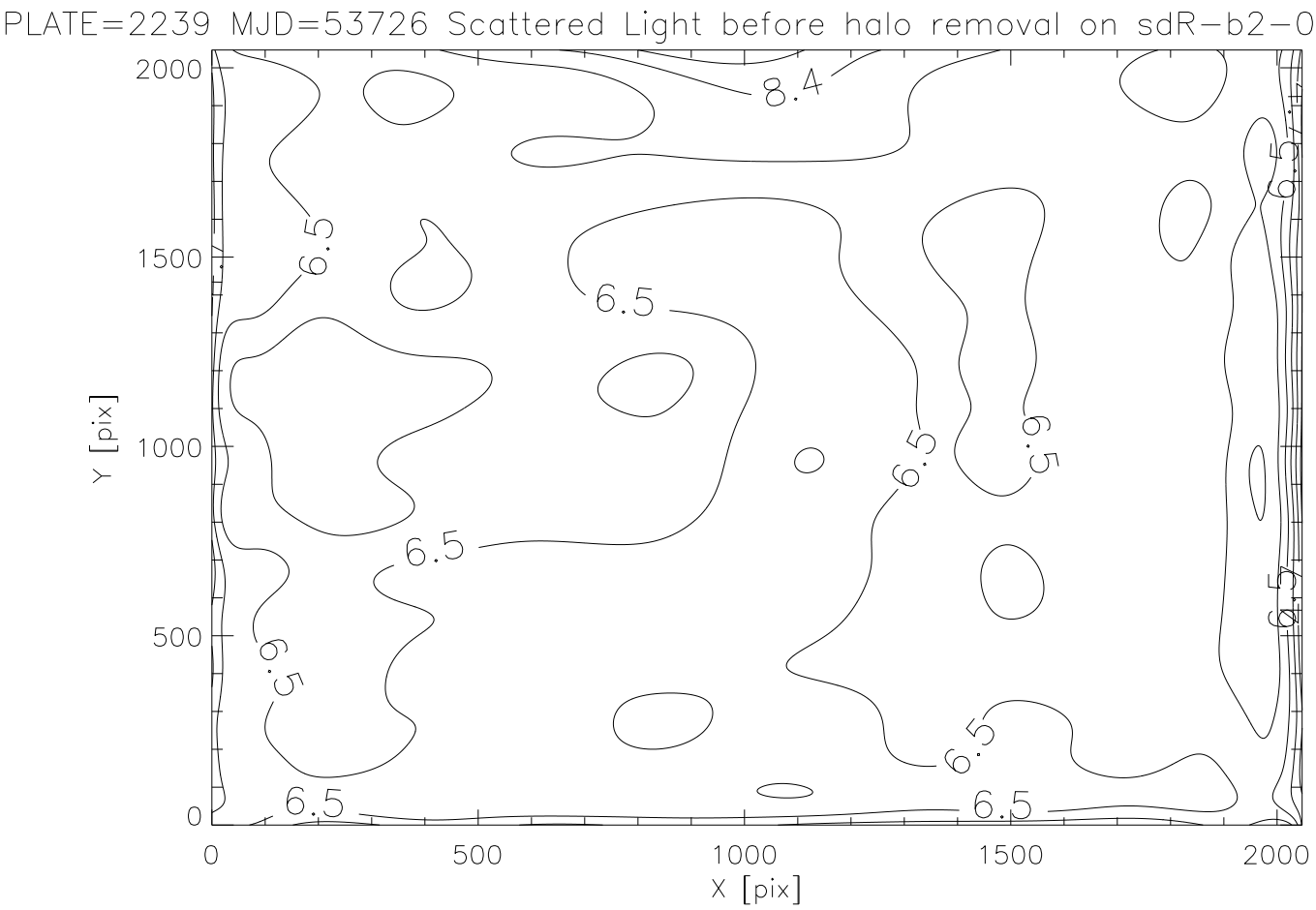

PLATE=2239 MJD=53726 sdR-b2-00035693.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

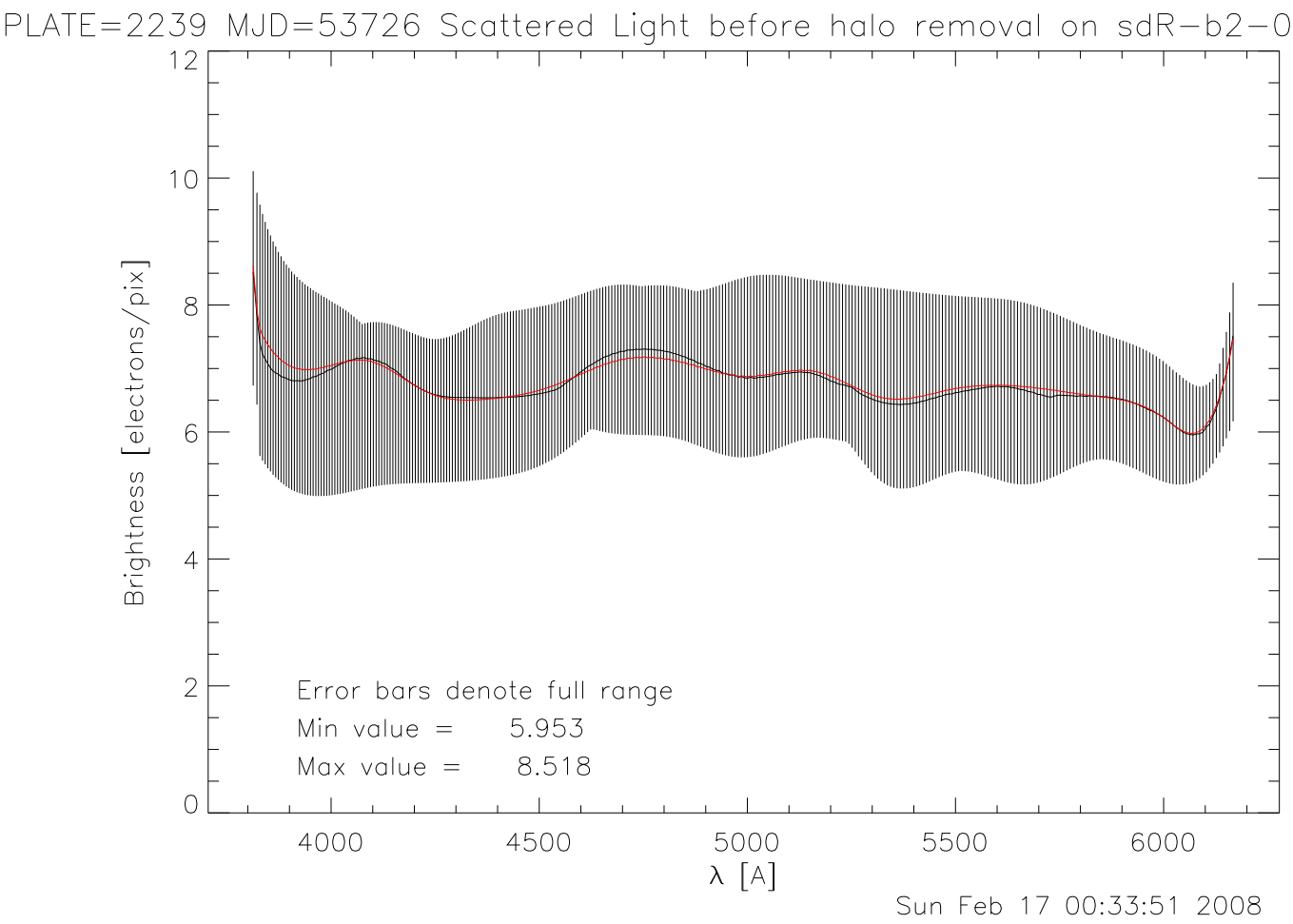

Number of sky fibers = 16
PLATE=2239 MJD=53726 sdR-b2-00035693.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

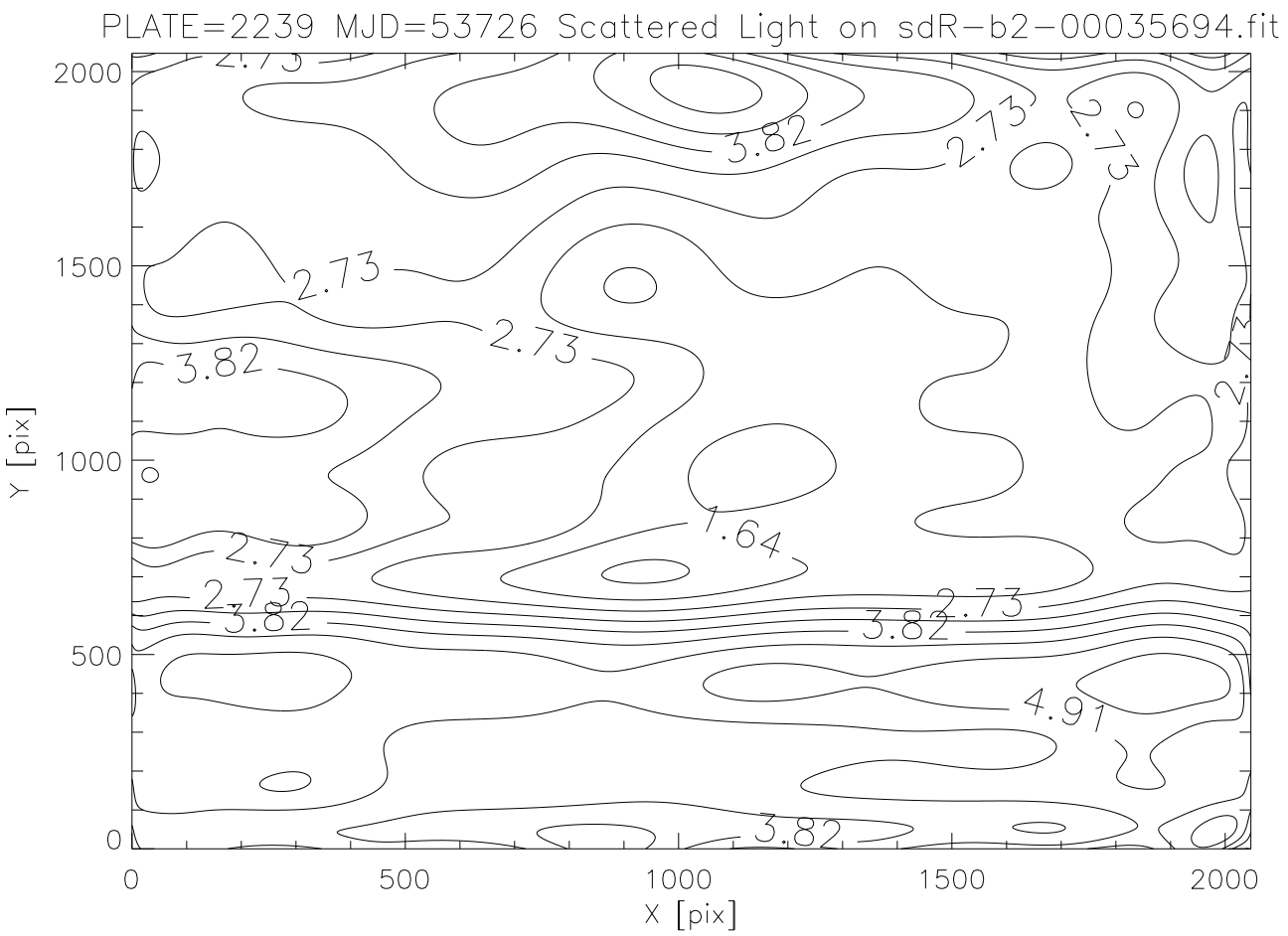

PLATE=2239 MJD=53726 sdR-b2-00035693.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
Red sky fiber
Dispersion = 9.49 %
Focal Distance [mm]
Airmass

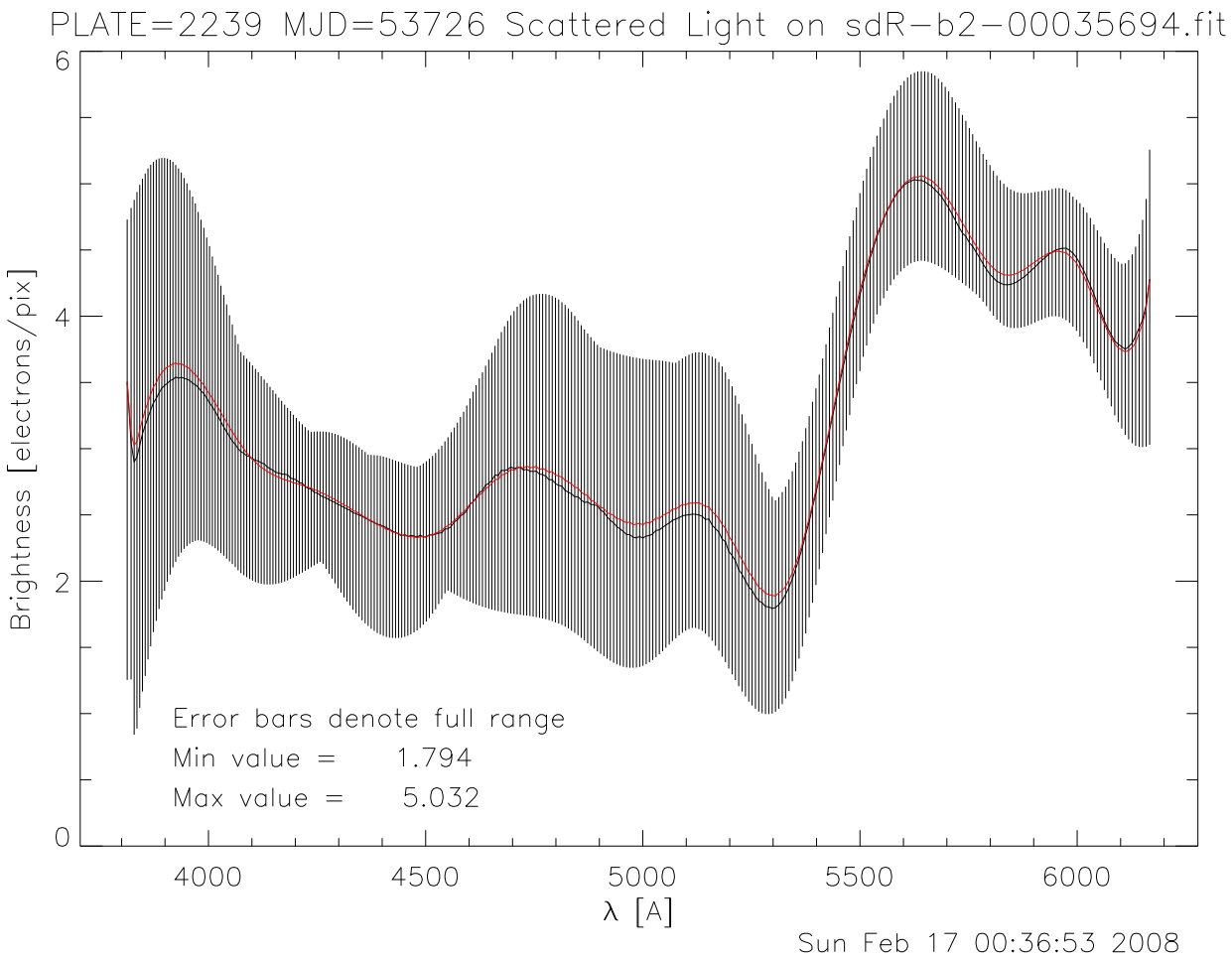

PLATE=2239 MJD=53726 sdR-b2-00035693.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.16 %
Fiber number
Focal Distance [mm]
Airmass

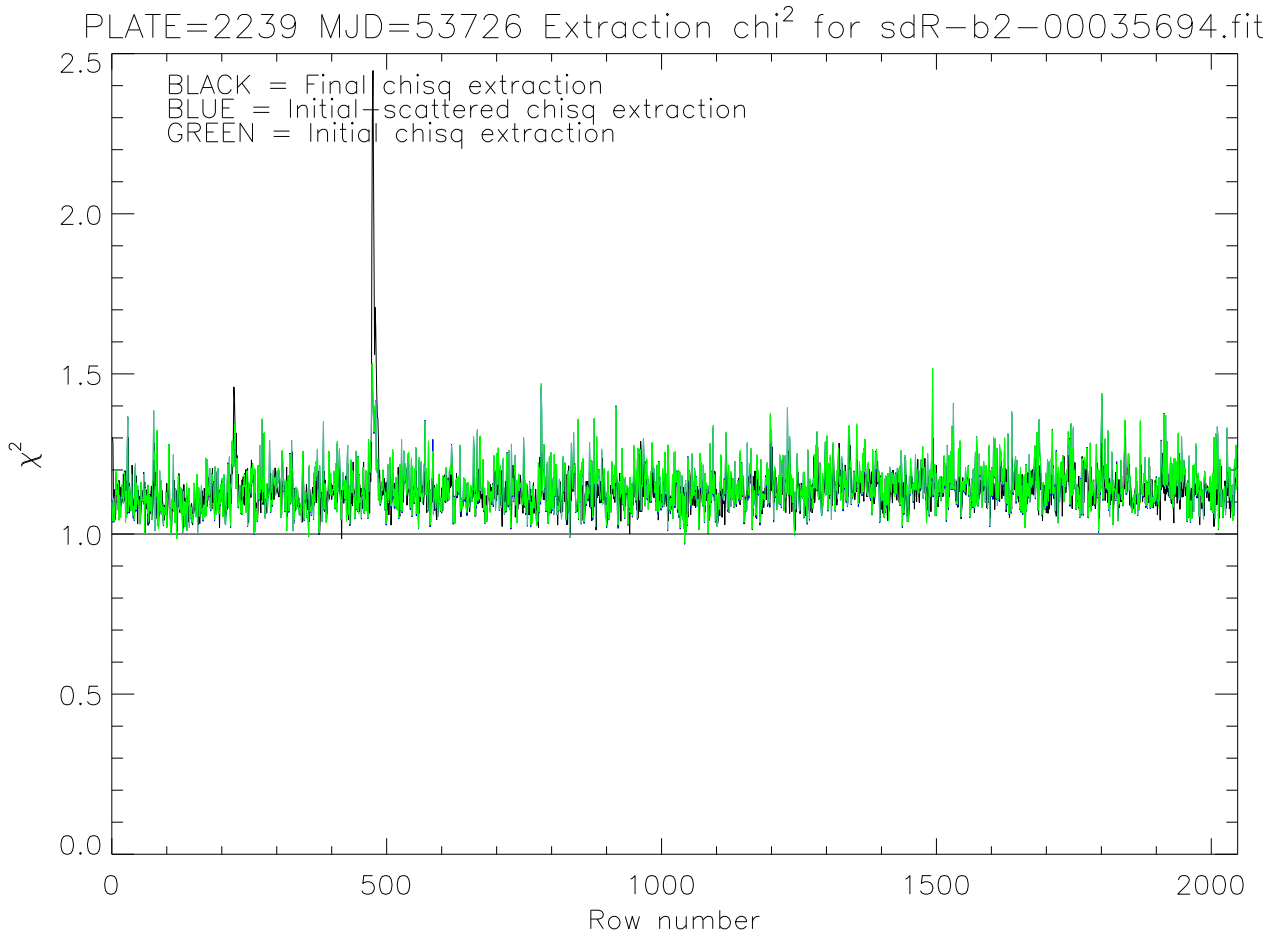

PLATE=2239 MJD=53726 Fiber-Flats for sdR-b2-00035690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.623
Max value = 1.199
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 17 00:33:04 2008

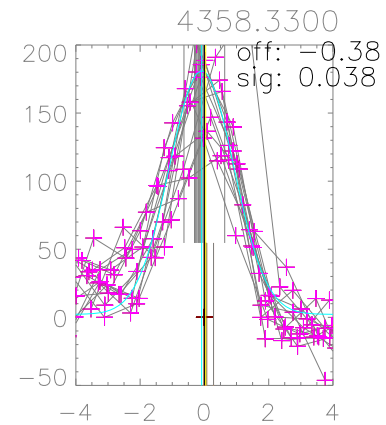

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR−b2−00035694.f
8.4
6.5
6.5
6.5

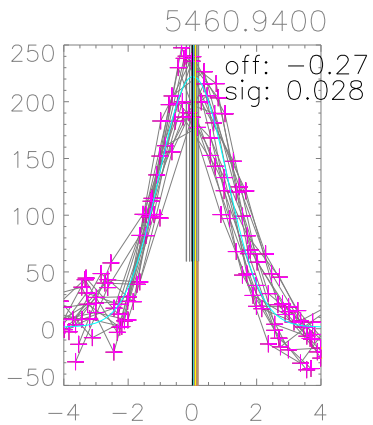

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR-b2-00035694.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.953
Max value = 8.518
Sun Feb 17 00:33:51 2008

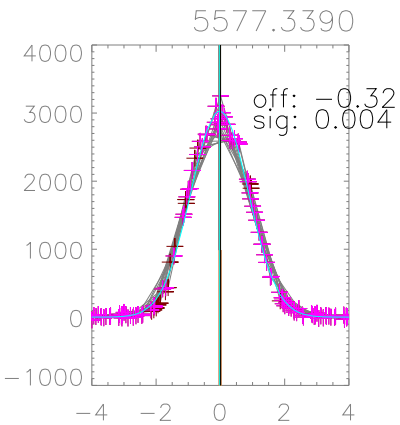

PLATE=2239 MJD=53726 Scattered Light on sdR-b2-00035694.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
3.82
2.73
1.64
4.91

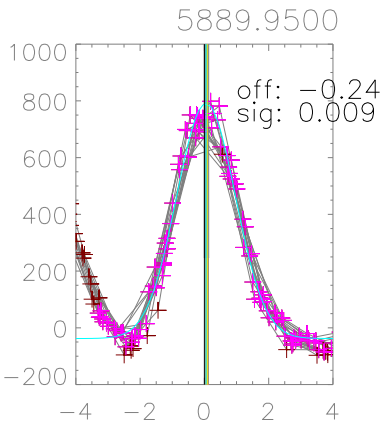

PLATE=2239 MJD=53726 Scattered Light on sdR-b2-00035694.fit
Brightness [electrons/pix]
0
2
4
6
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 1.794
Max value = 5.032
Sun Feb 17 00:36:53 2008

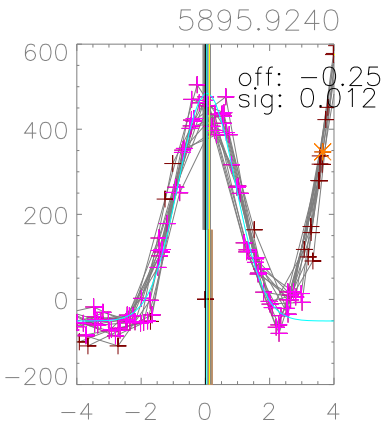

PLATE=2239 MJD=53726 Extraction chi^2 for sdR-b2-00035694.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

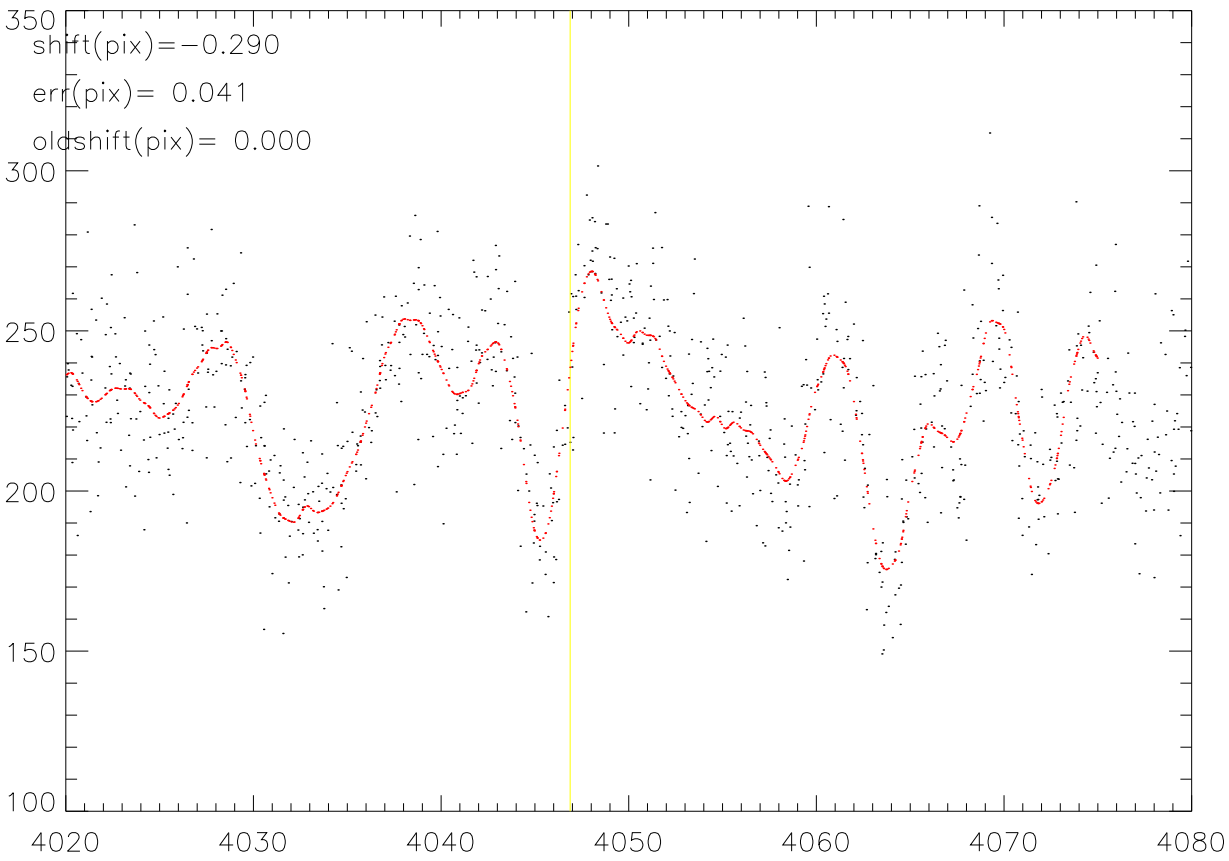

4358.3300
off: −0.38
sig: 0.038

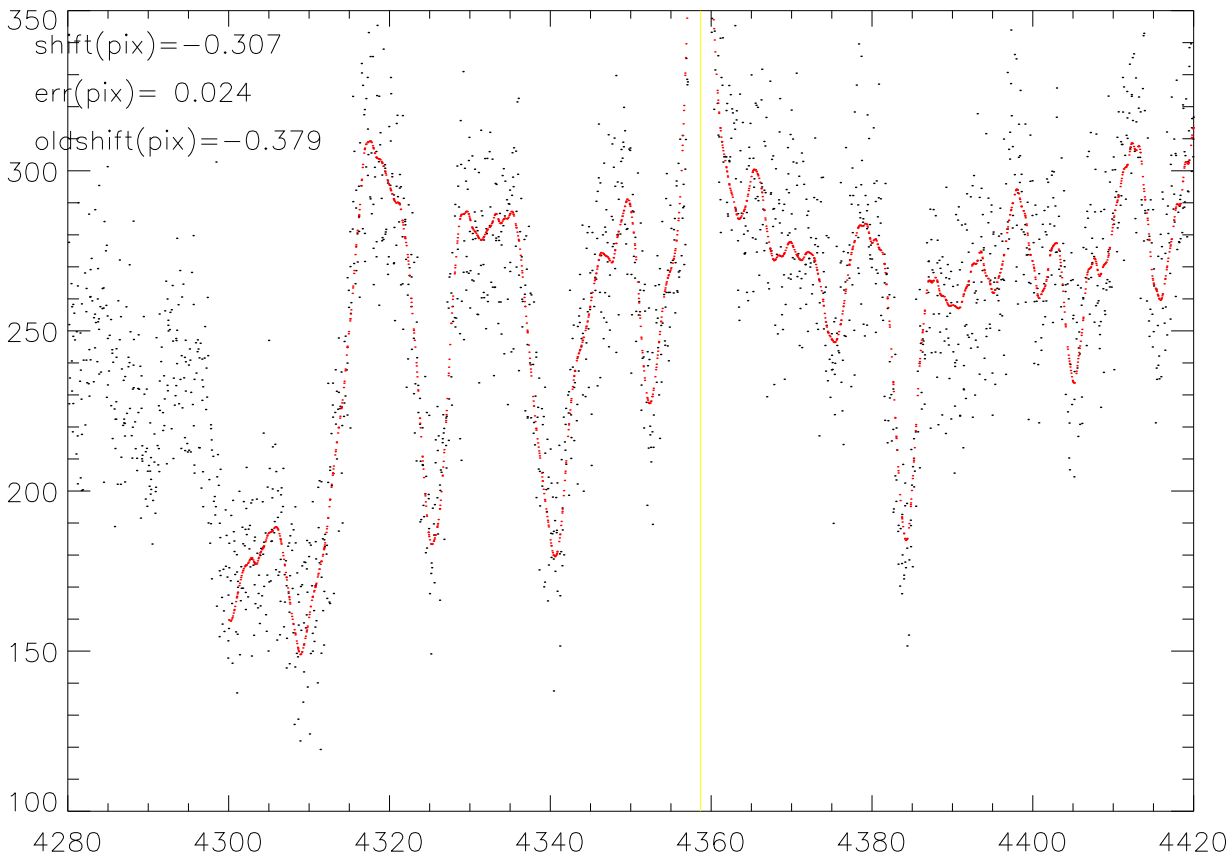

5460.9400
off: −0.27
sig: 0.028

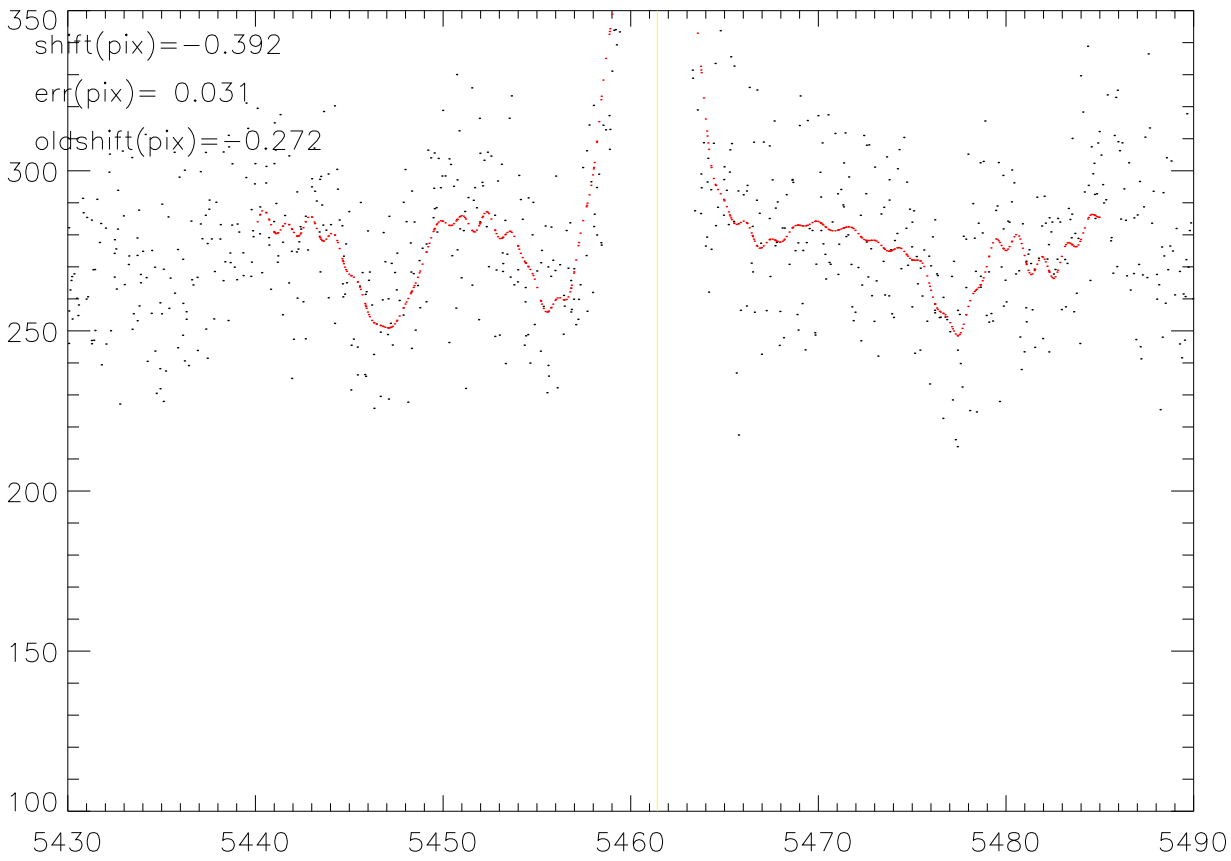

5577.3390
off: −0.32
sig: 0.004

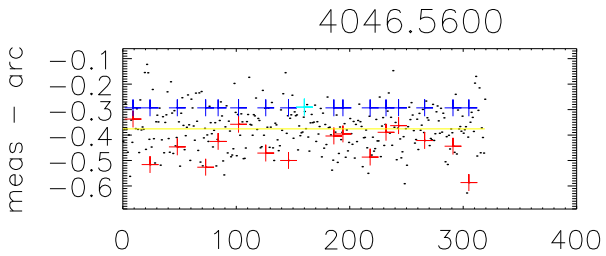

5889.9500
off: −0.24
sig: 0.009

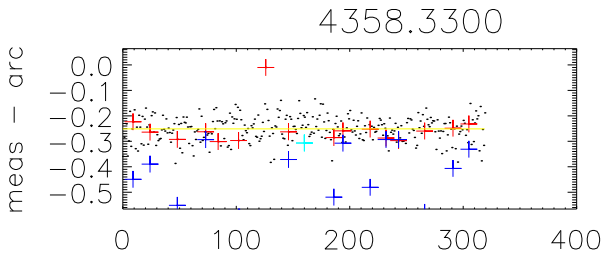

5895.9240
off: −0.25
sig: 0.012

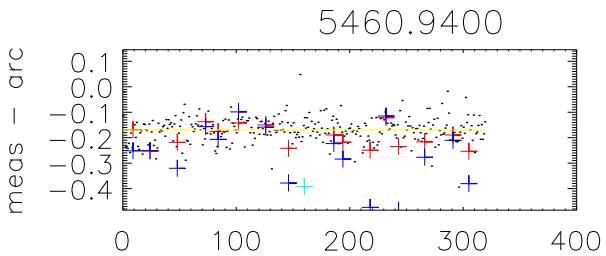

shift(pix)=−0.290
err(pix)= 0.041
oldshift(pix)= 0.000
350
300
250
200
150
100
4020
4030
4040
4050
4060
4070
4080

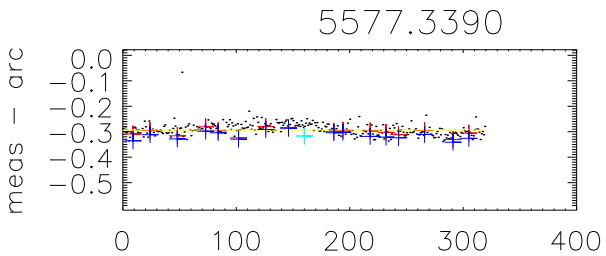

shift(pix)=−0.307
err(pix)= 0.024
oldshift(pix)=−0.379
350
300
250
200
150
100
4280
4300
4320
4340
4360
4380
4400
4420

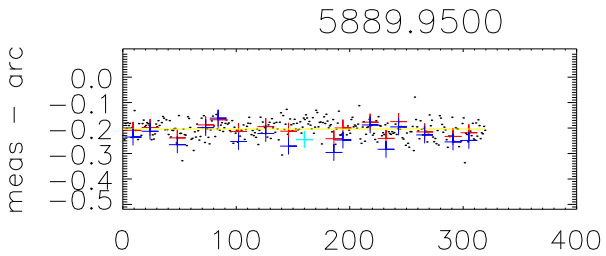

shift(pix)=−0.392
err(pix)= 0.031
oldshift(pix)=−0.272
350
300
250
200
150
100
5430
5440
5450
5460
5470
5480
5490

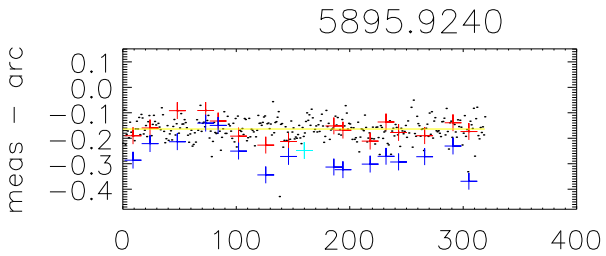

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

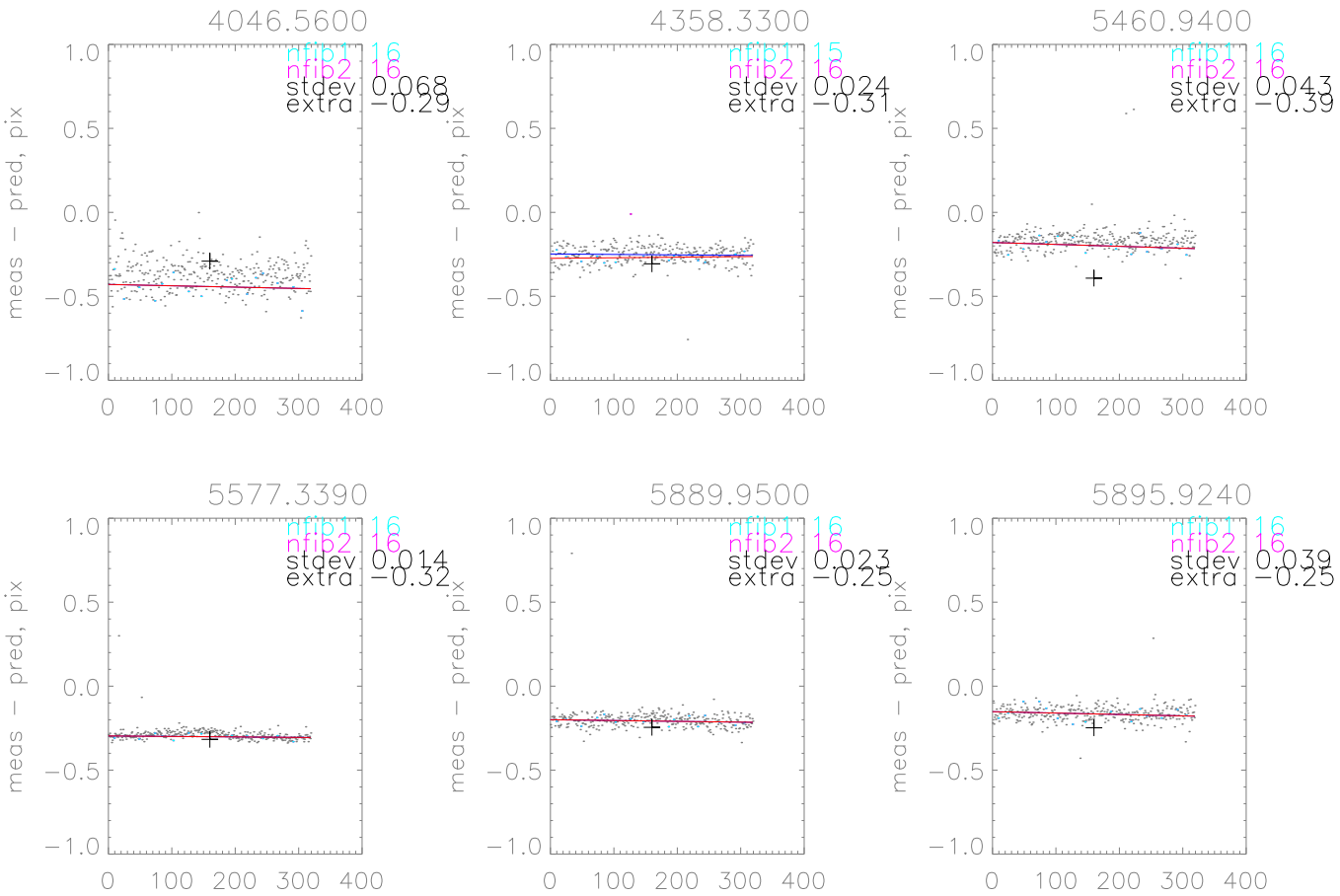

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

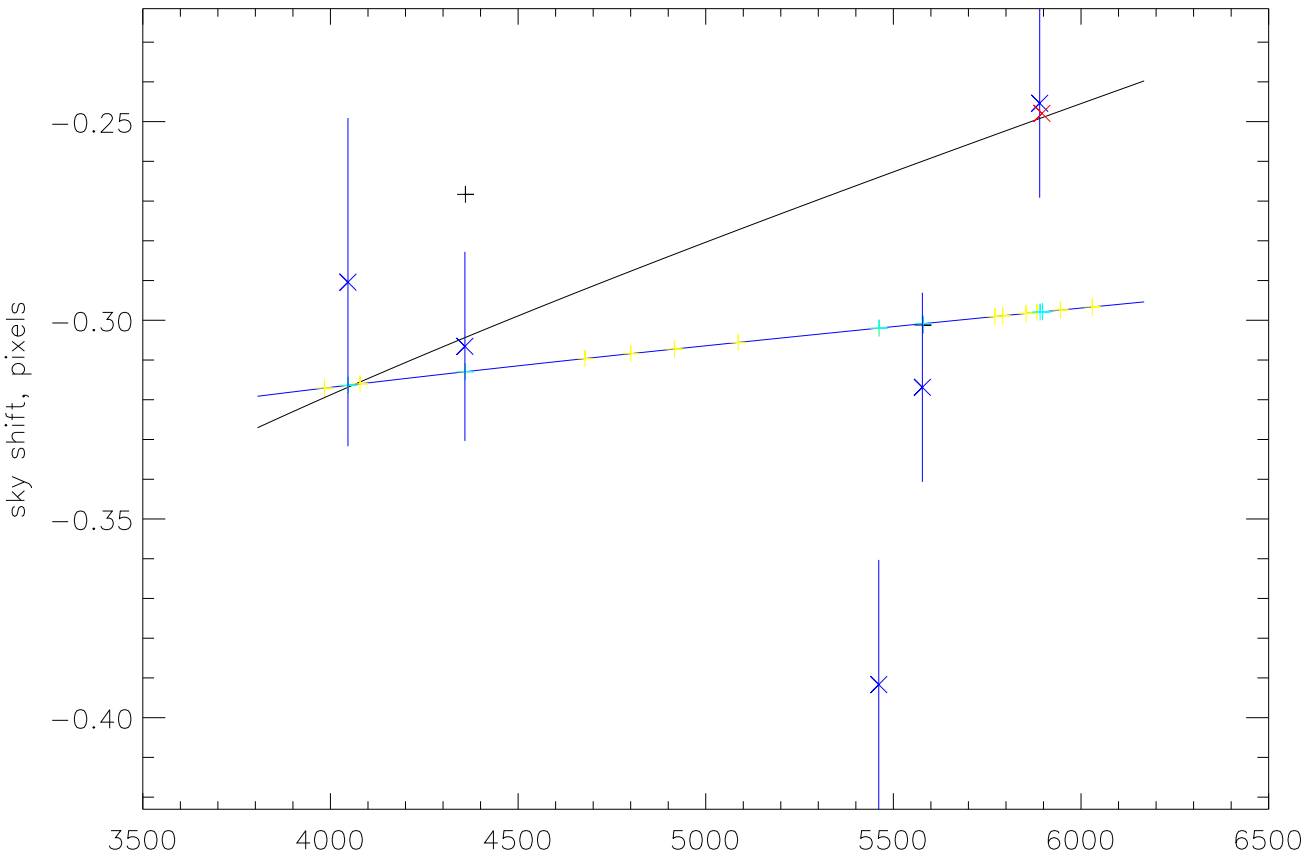

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

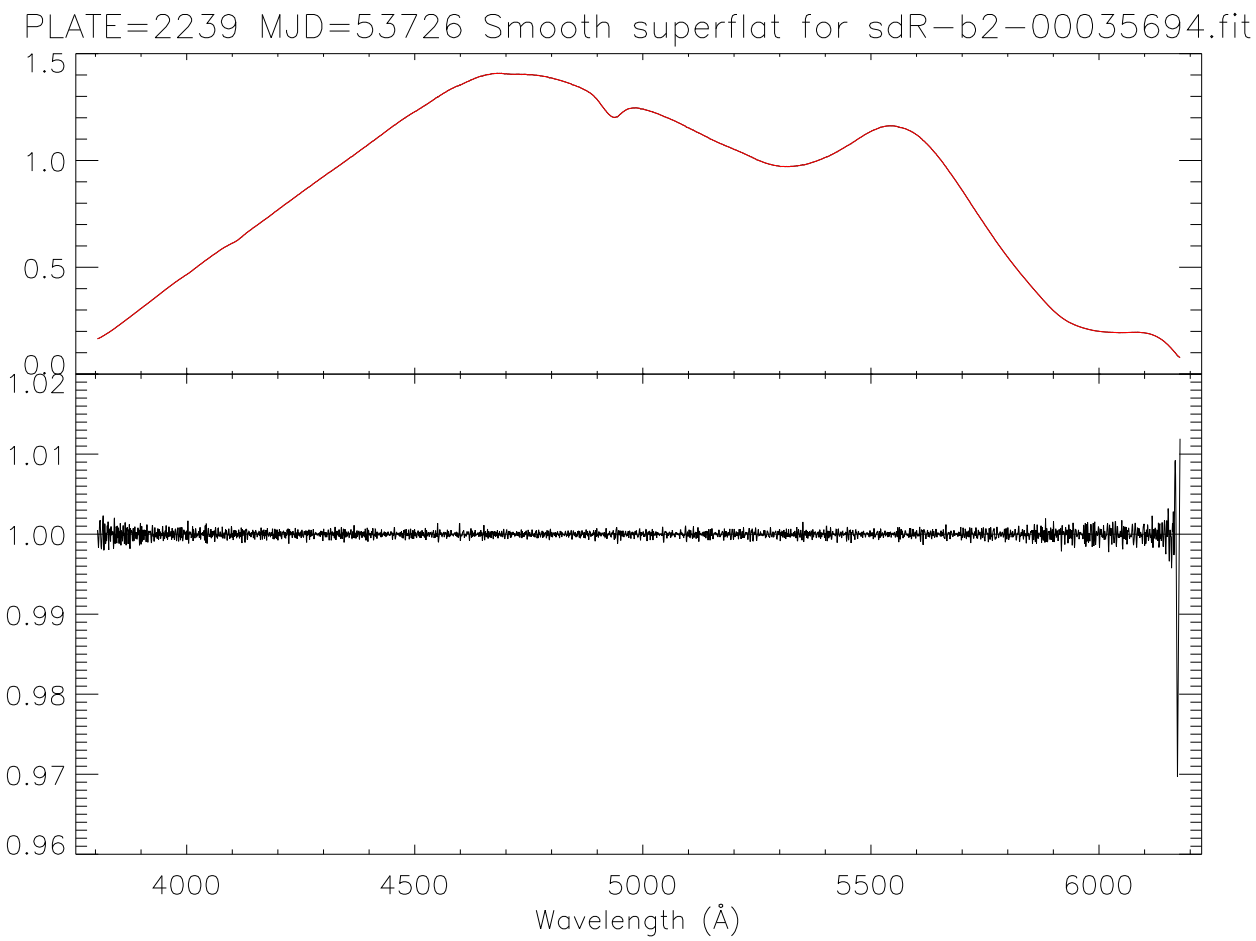

5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

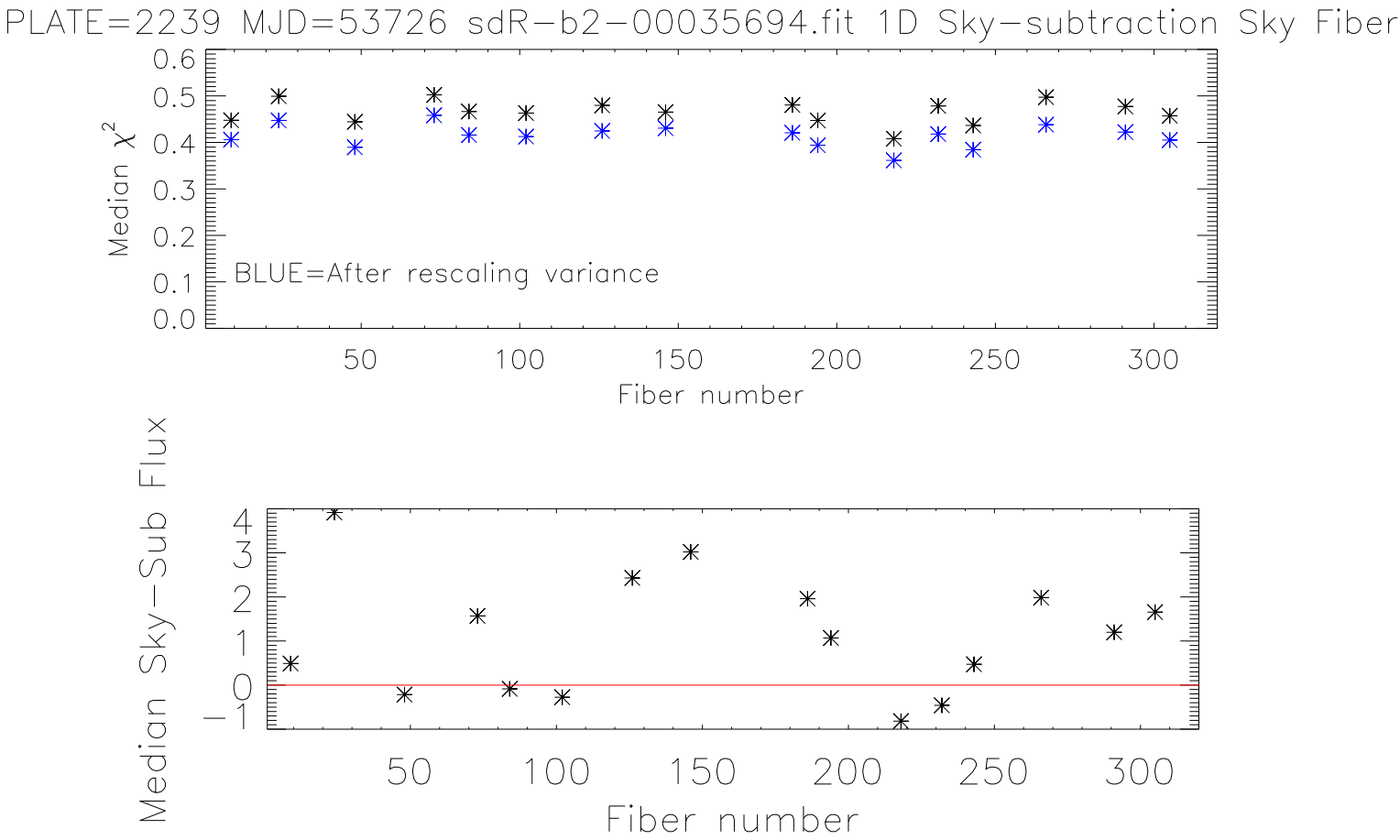

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

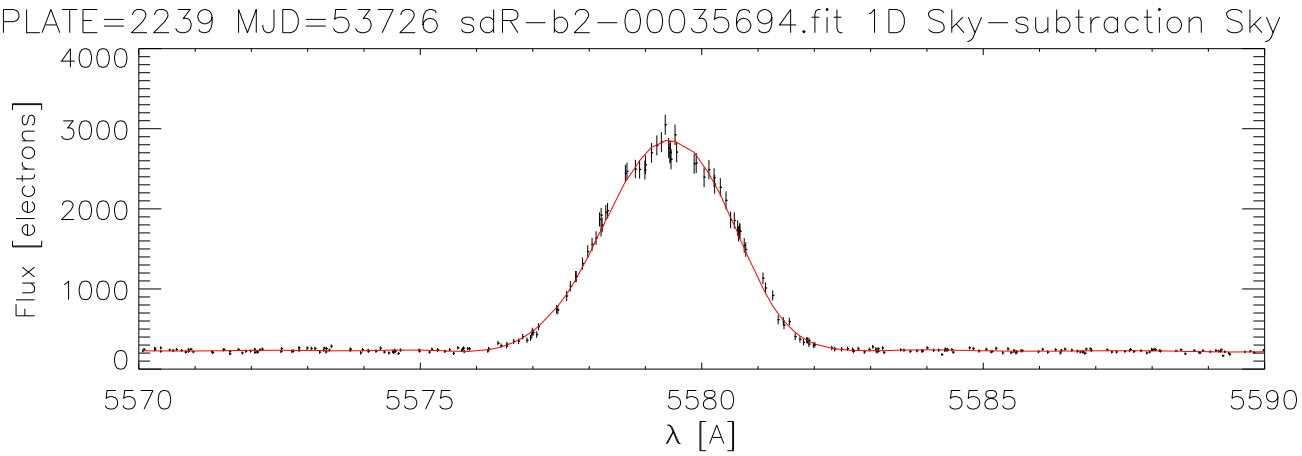

4046.5600
nfib1 16
nfib2 16
stdev 0.068
extra −0.29
4358.3300
nfib1 15
nfib2 16
stdev 0.024
extra −0.31
5460.9400
nfib1 16
nfib2 16
stdev 0.043
extra −0.39
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra −0.32
5889.9500
nfib1 16
nfib2 16
stdev 0.023
extra −0.25
5895.9240
nfib1 16
nfib2 16
stdev 0.039
extra −0.25
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

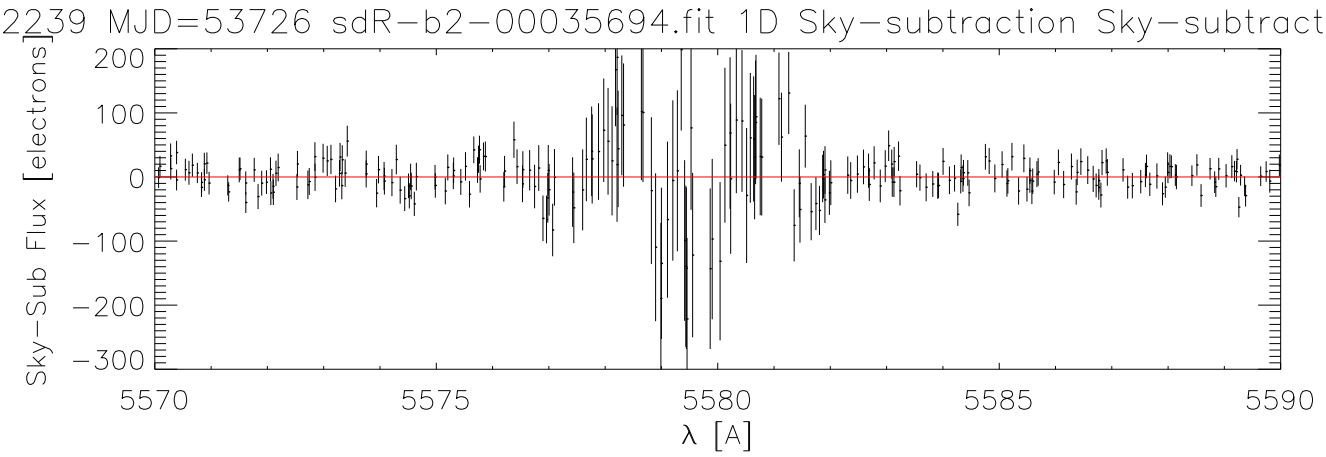

sky shift, pixels
−0.25
−0.30
−0.35
−0.40
3500
4000
4500
5000
5500
6000
6500

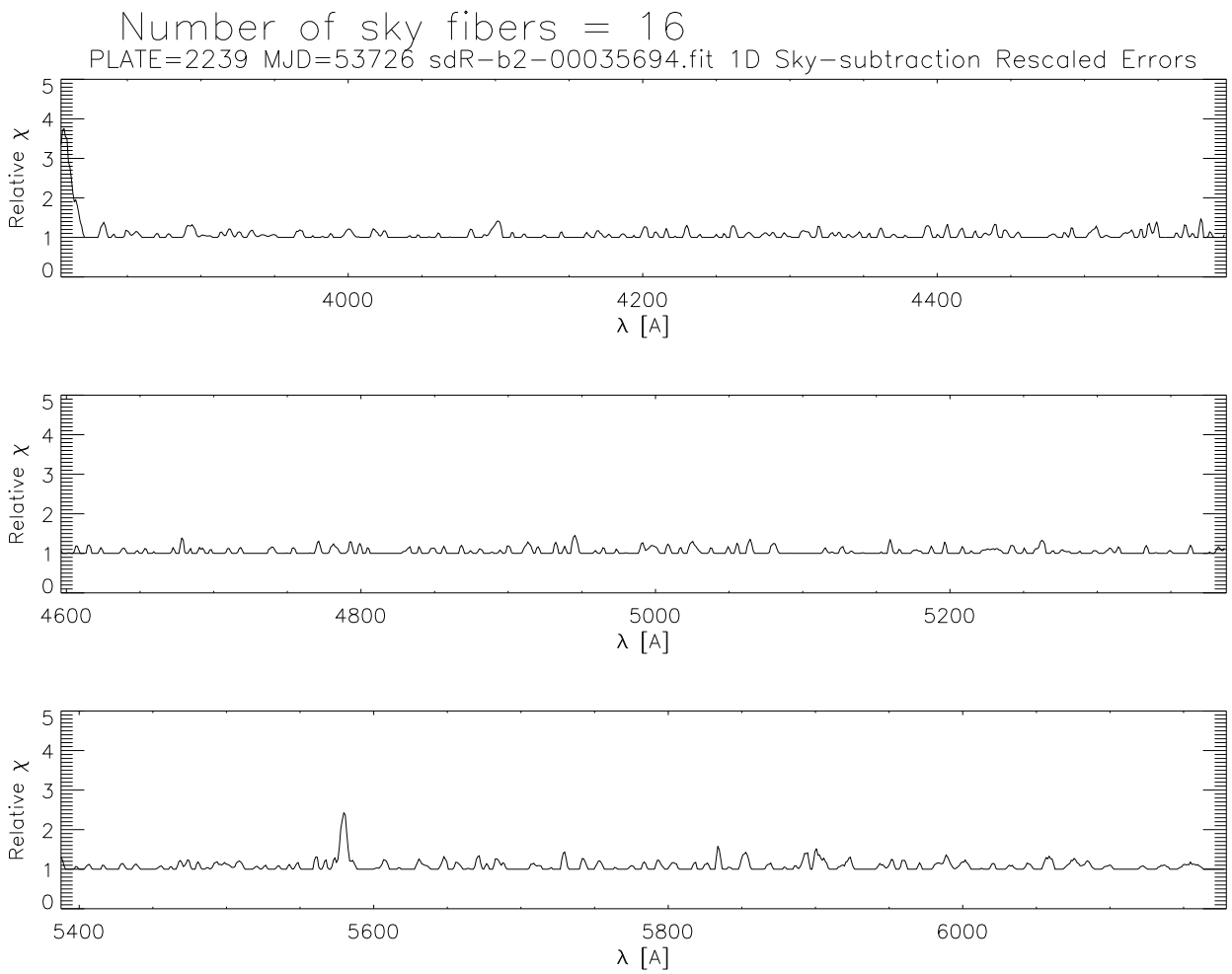
es= −0.0000

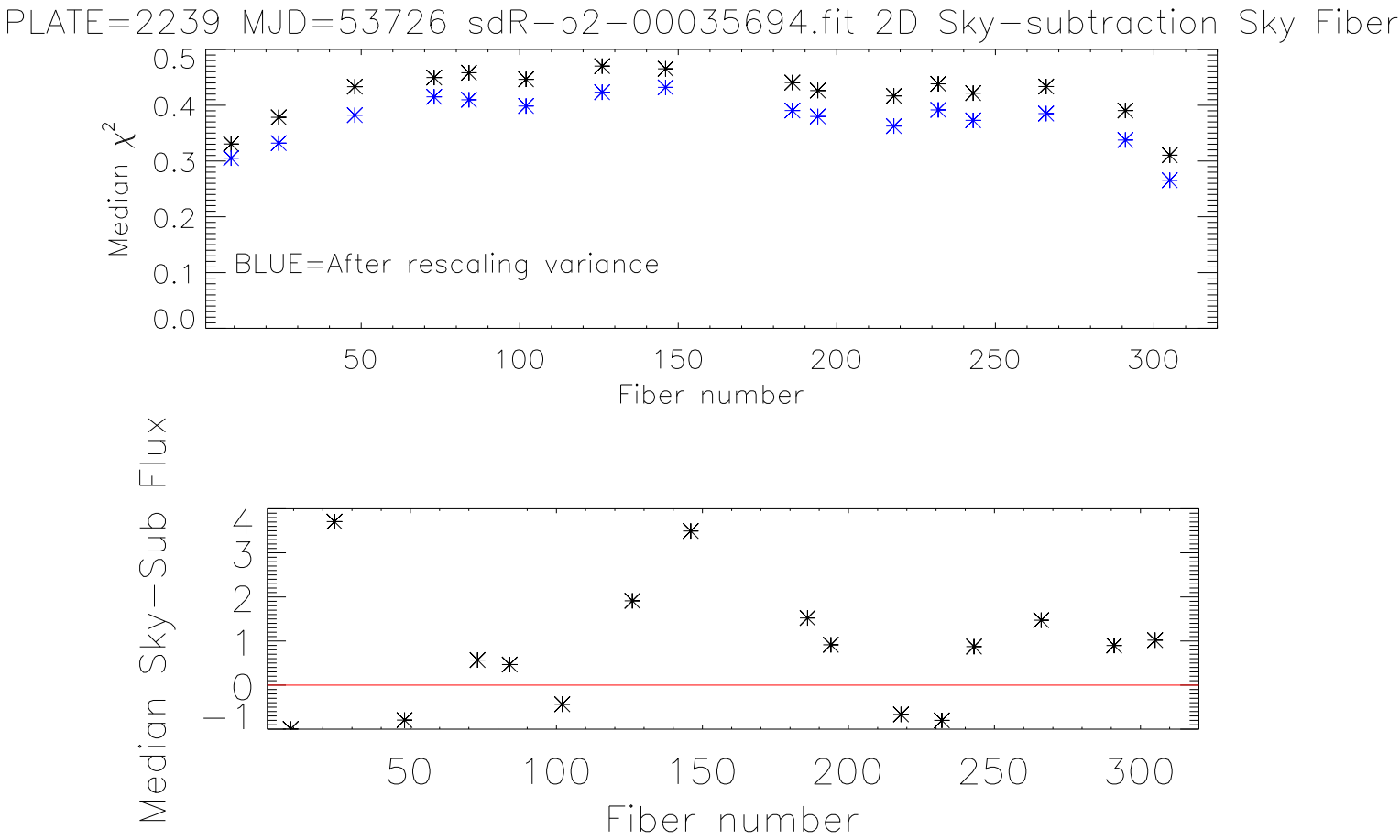

PLATE=2239 MJD=53726 Smooth superflat for sdR−b2−00035694.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
0.97
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

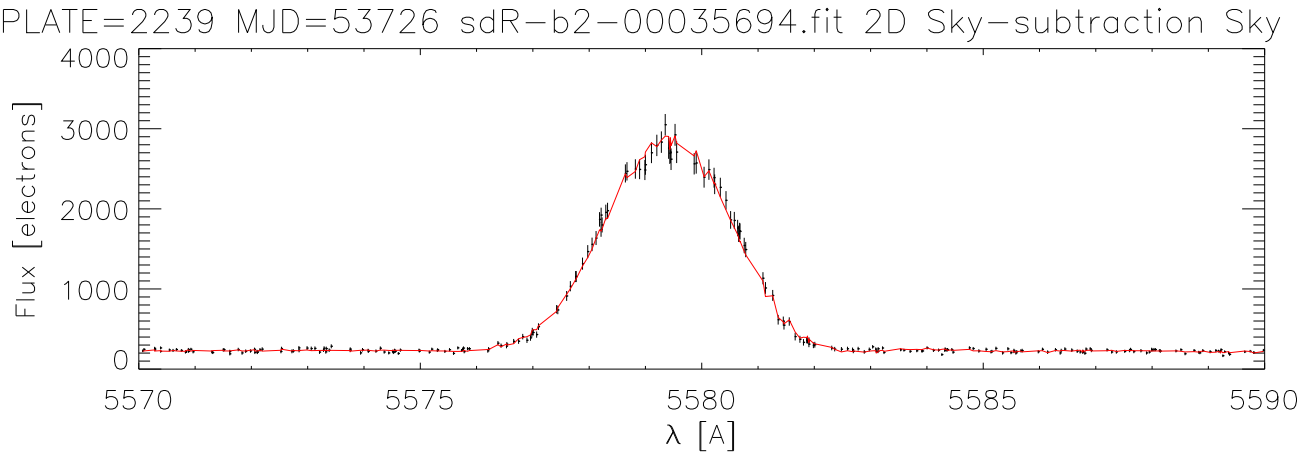

PLATE=2239 MJD=53726 sdR-b2-00035694.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

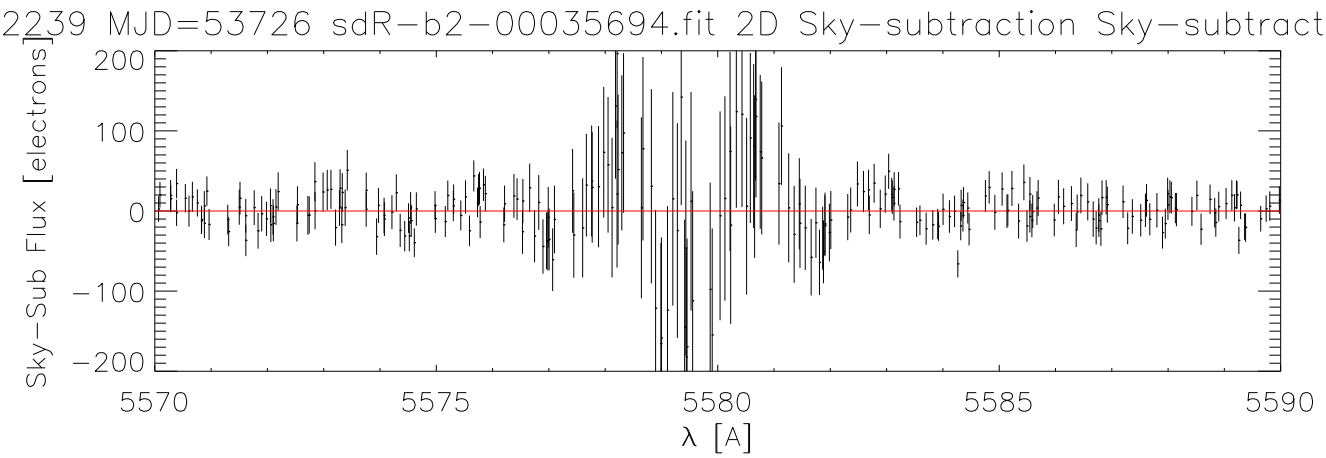

PLATE=2239 MJD=53726 sdR-b2-00035694.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

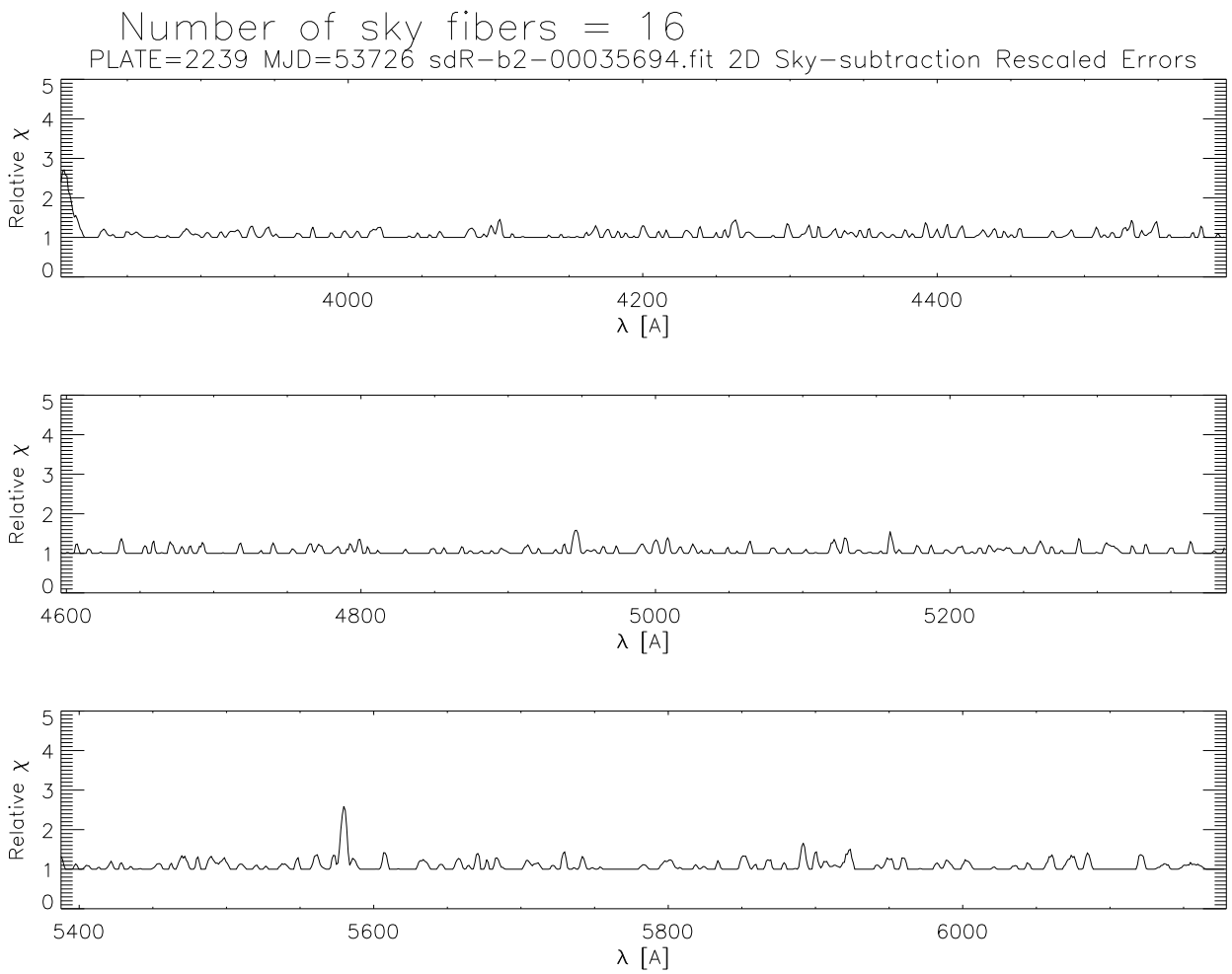

PLATE=2239 MJD=53726 sdR-b2-00035694.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

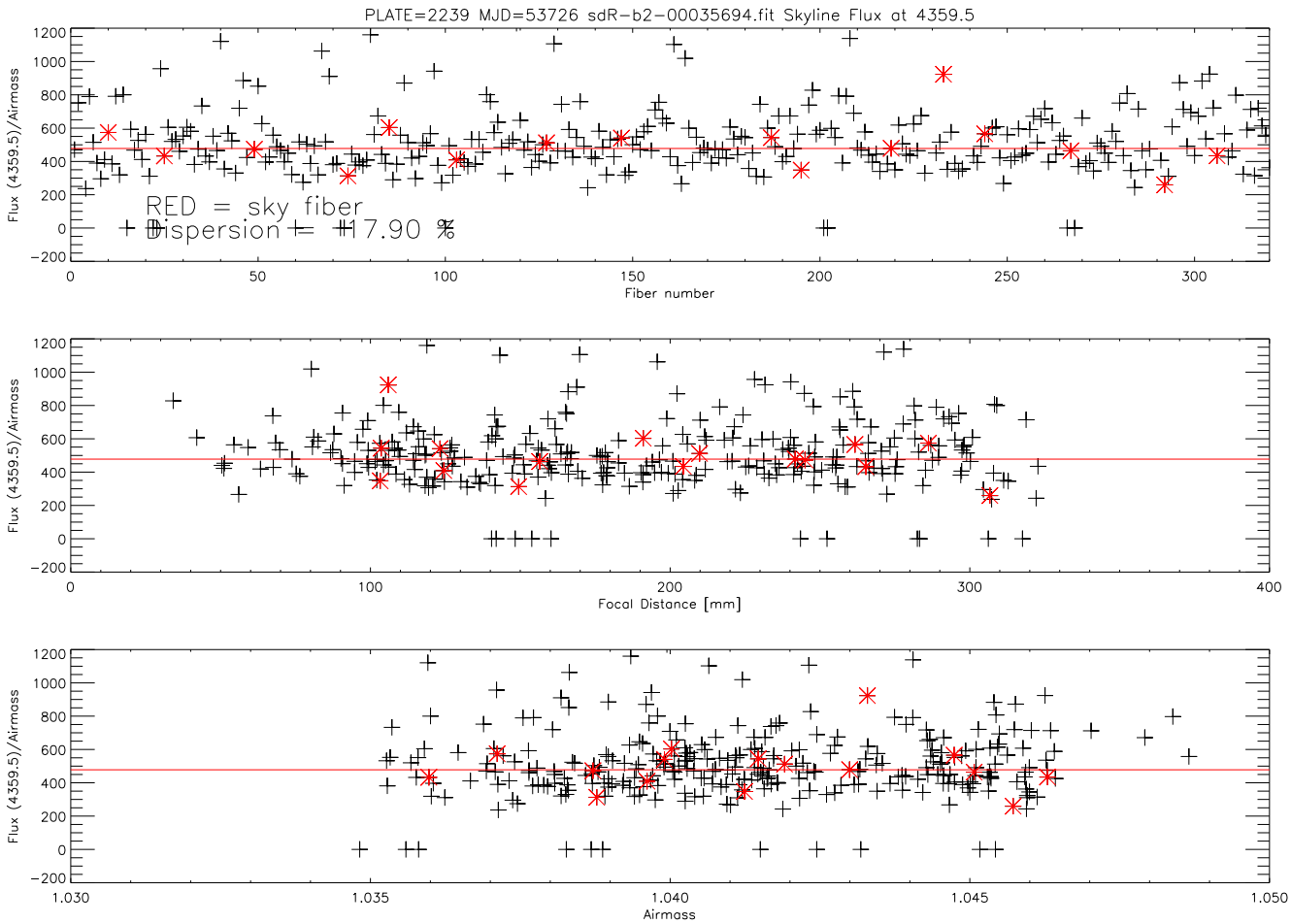

Number of sky fibers = 16
PLATE=2239 MJD=53726 sdR-b2-00035694.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

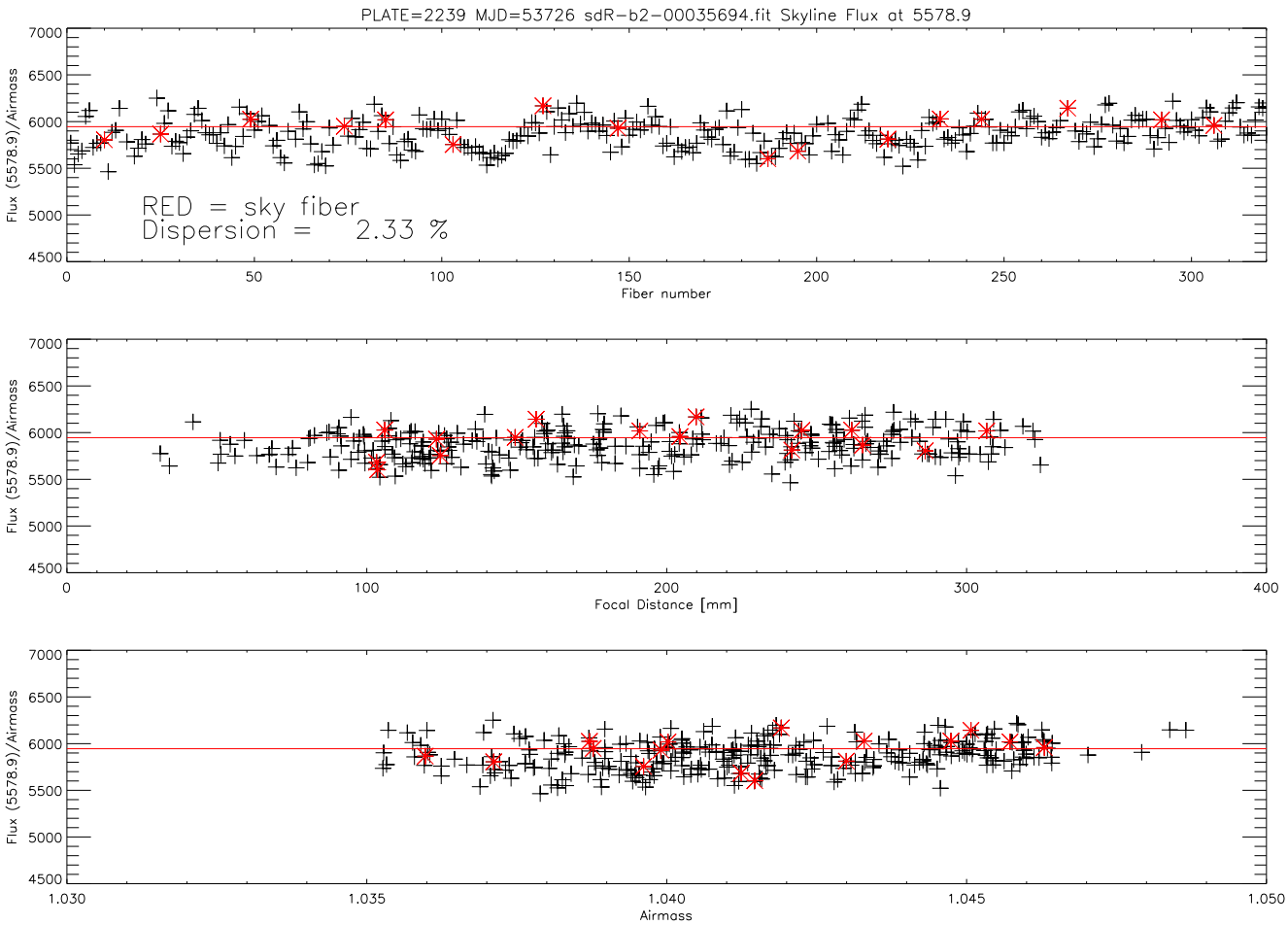

PLATE=2239 MJD=53726 sdR-b2-00035694.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

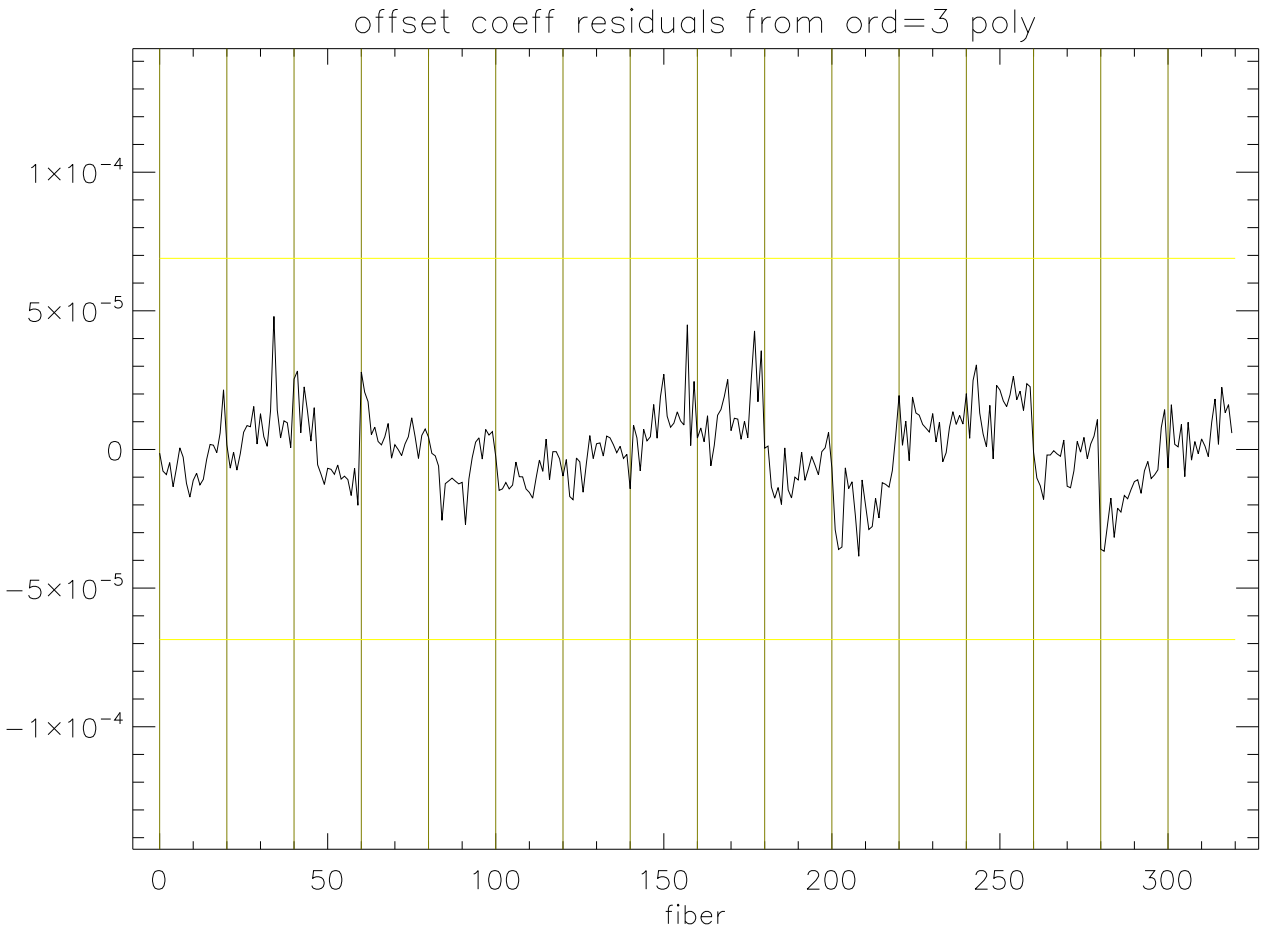

PLATE=2239 MJD=53726 sdR-b2-00035694.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

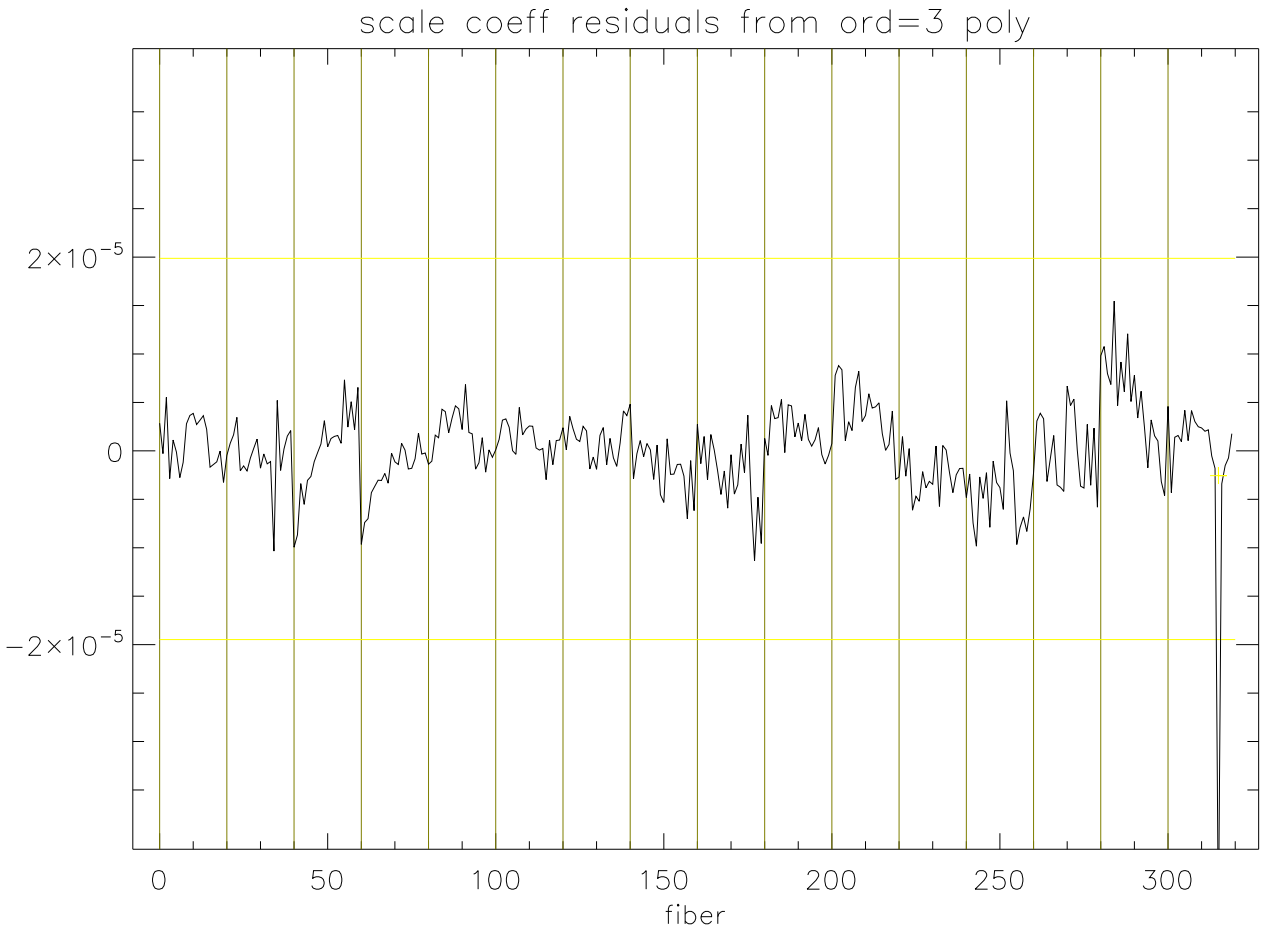

PLATE=2239 MJD=53726 sdR-b2-00035694.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

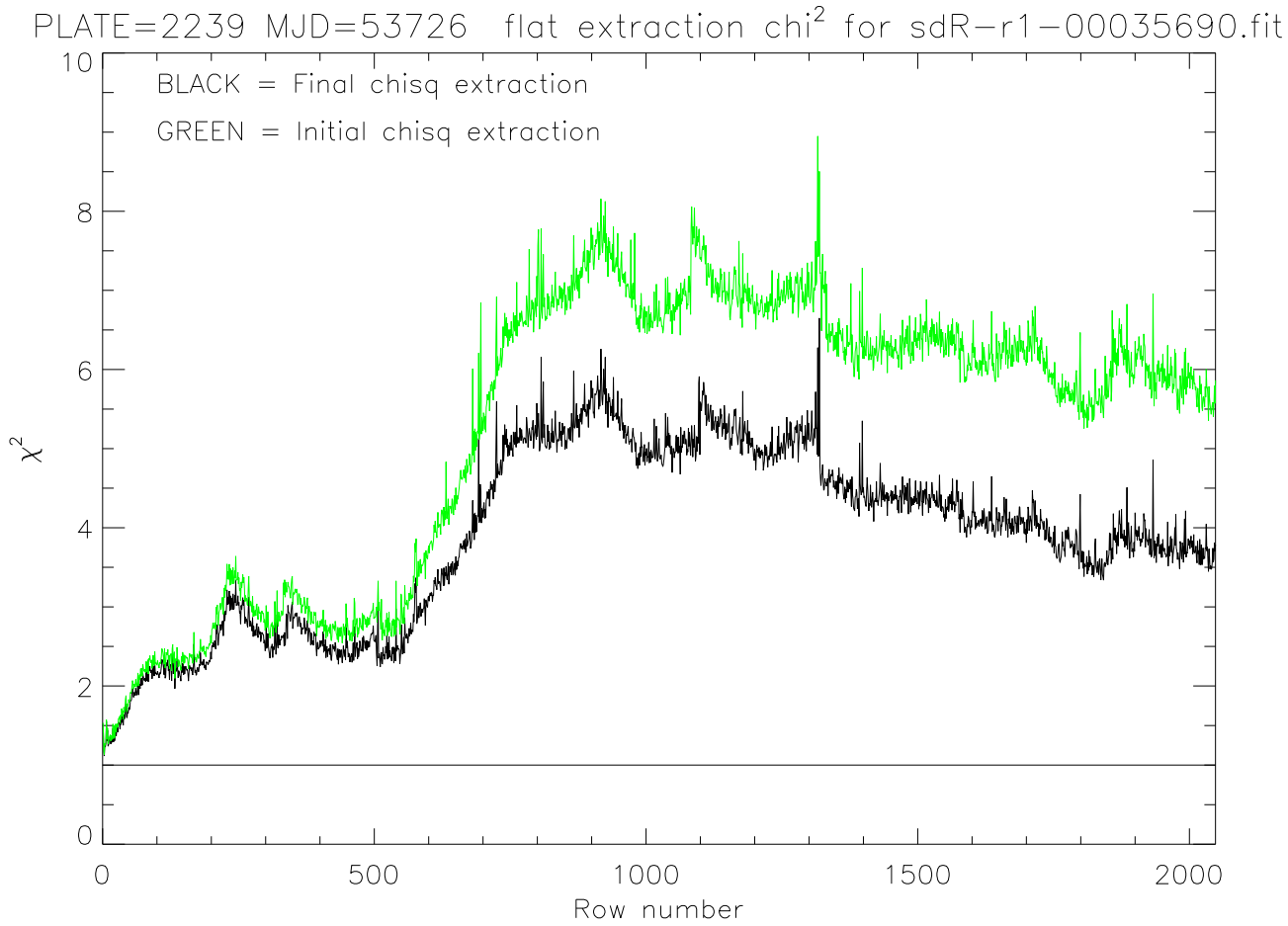

Number of sky fibers = 16
PLATE=2239 MJD=53726 sdR-b2-00035694.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

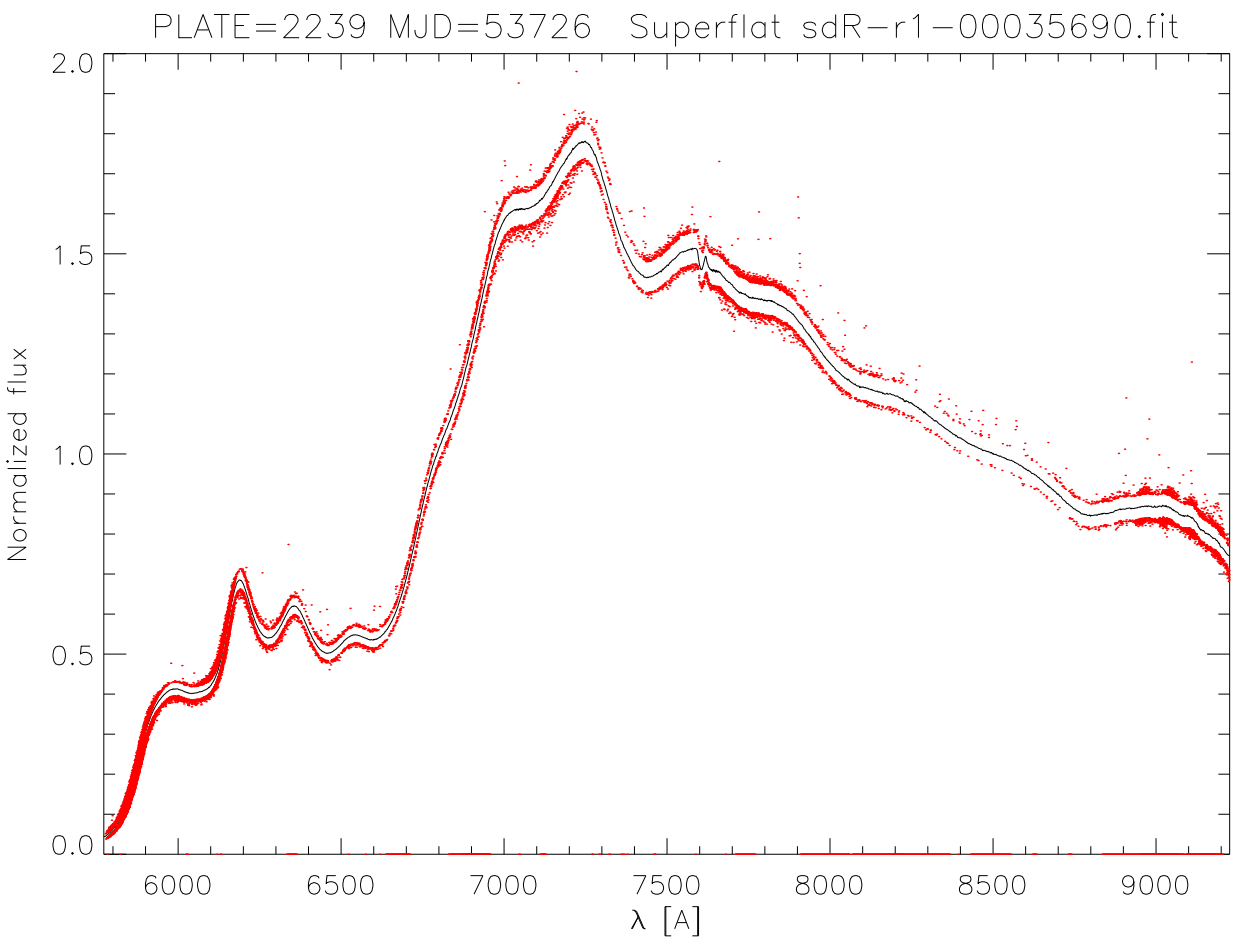

PLATE=2239 MJD=53726 sdR-b2-00035694.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 17.90 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

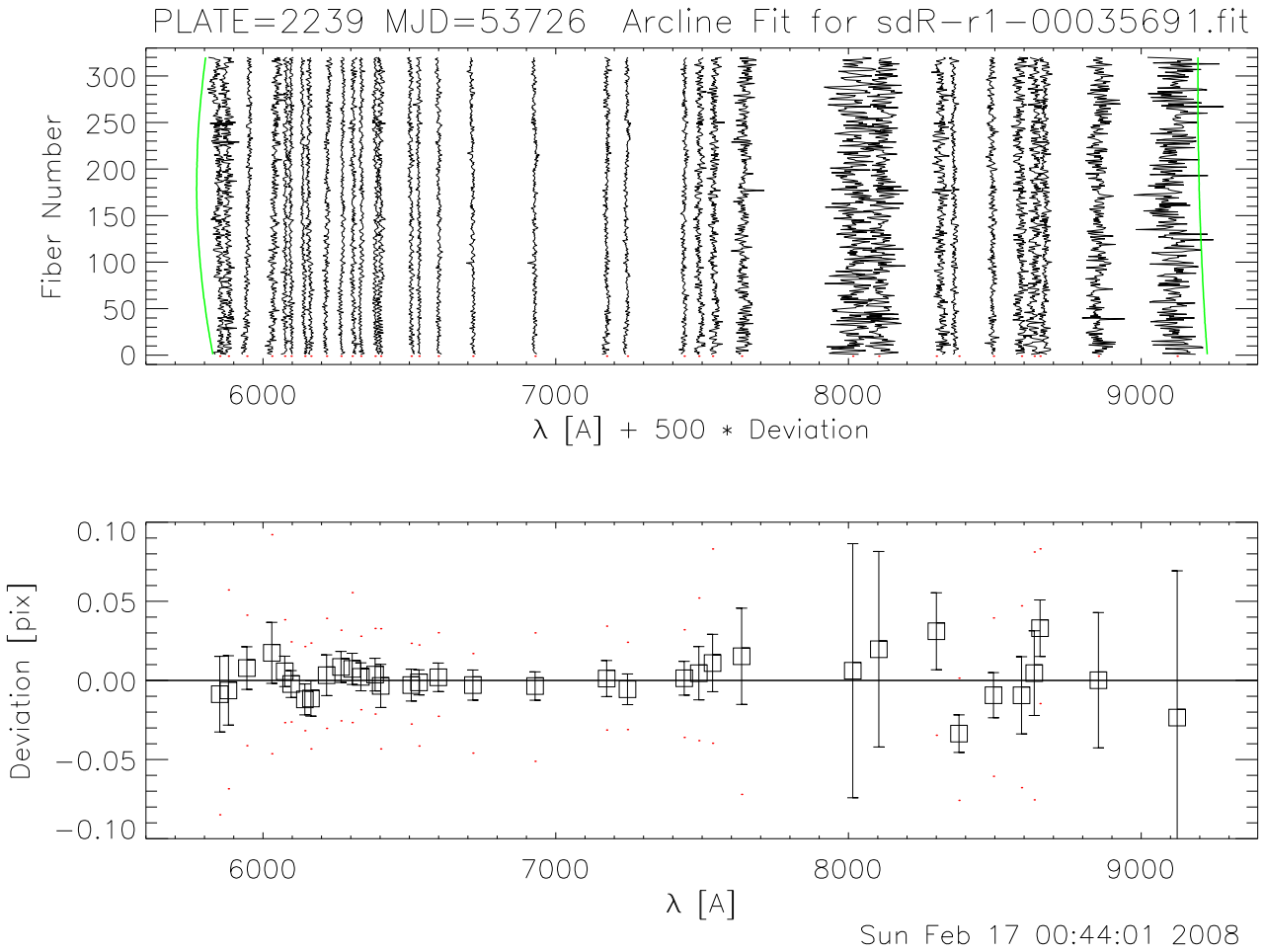

PLATE=2239 MJD=53726 sdR-b2-00035694.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.33 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

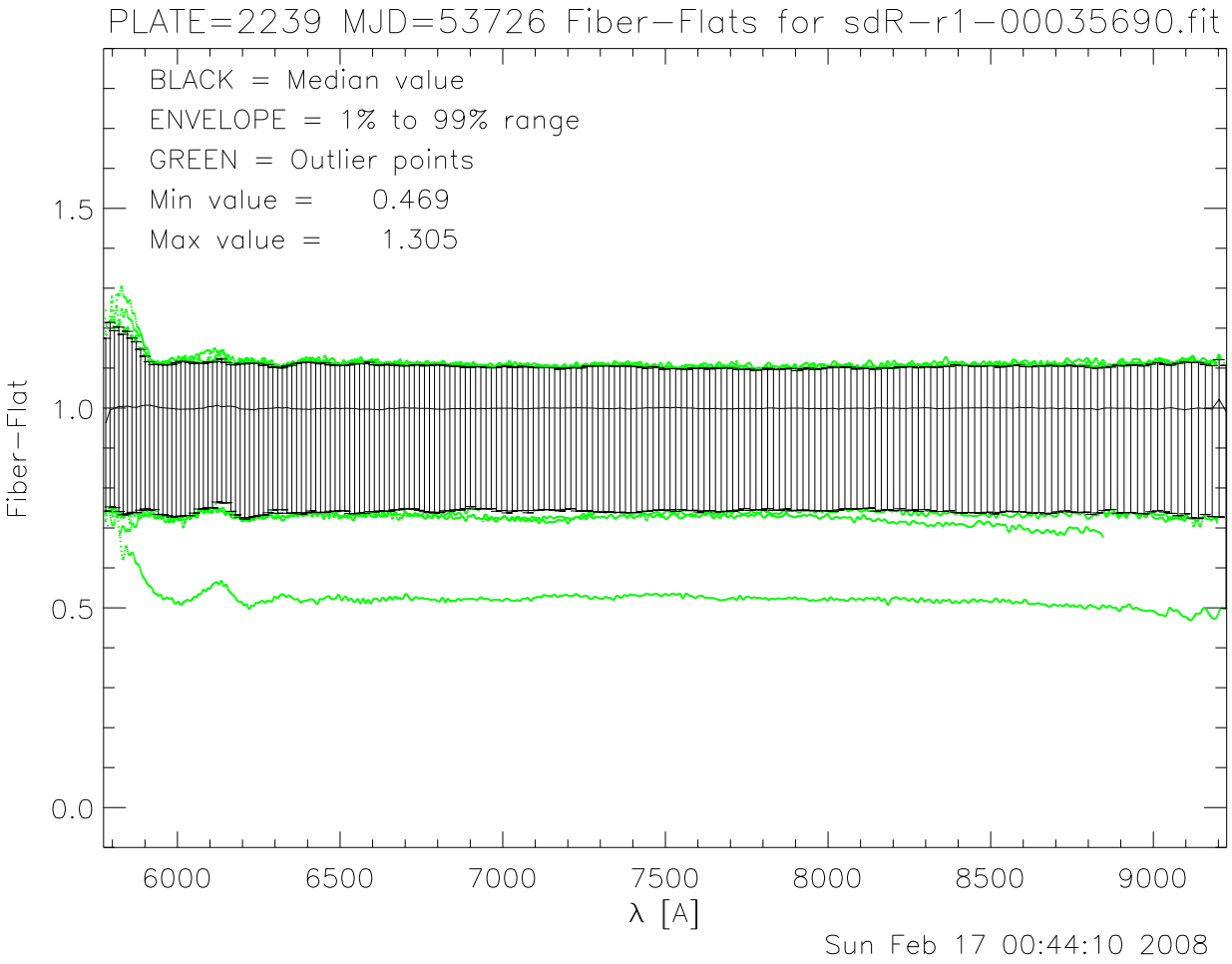

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

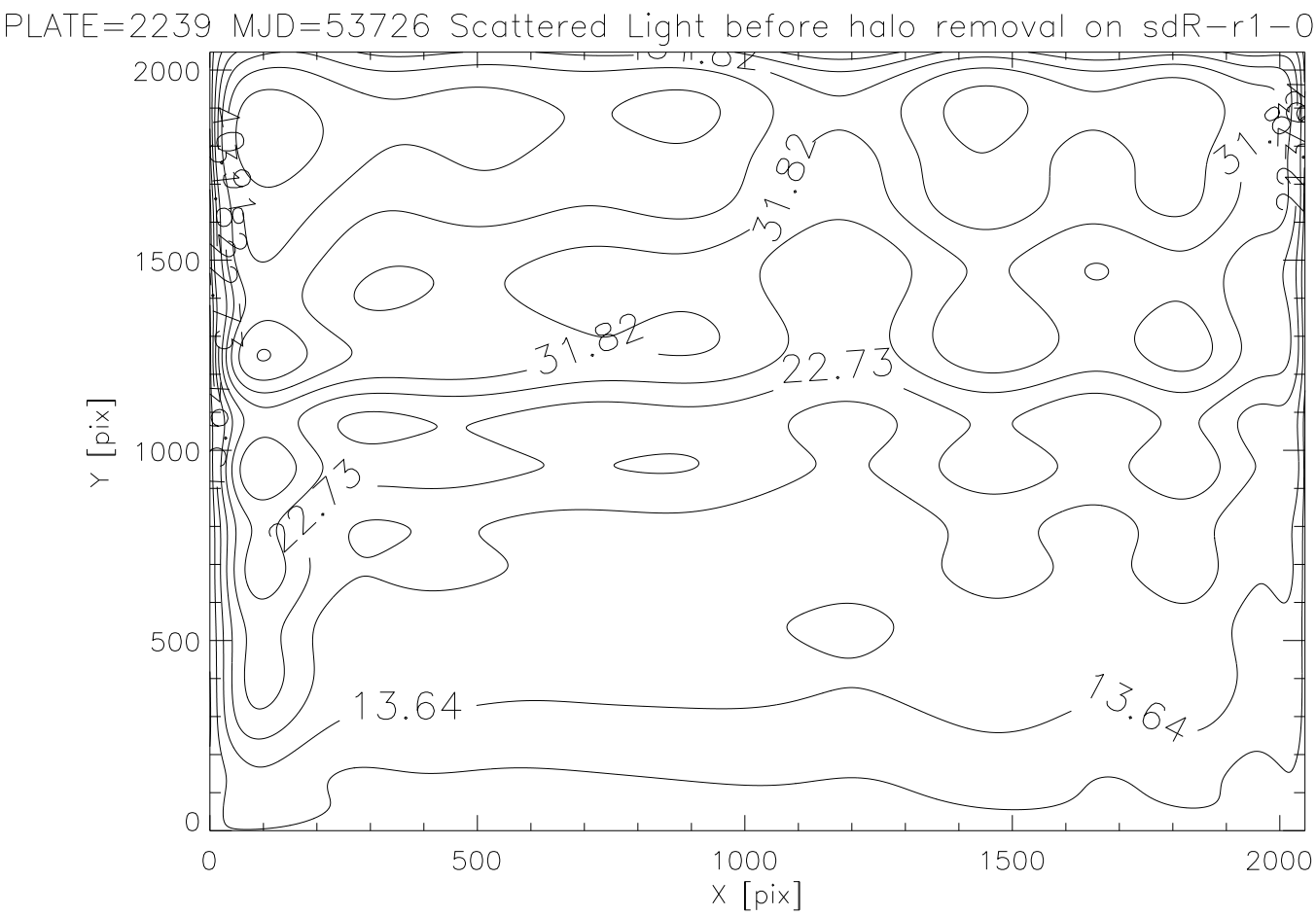

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

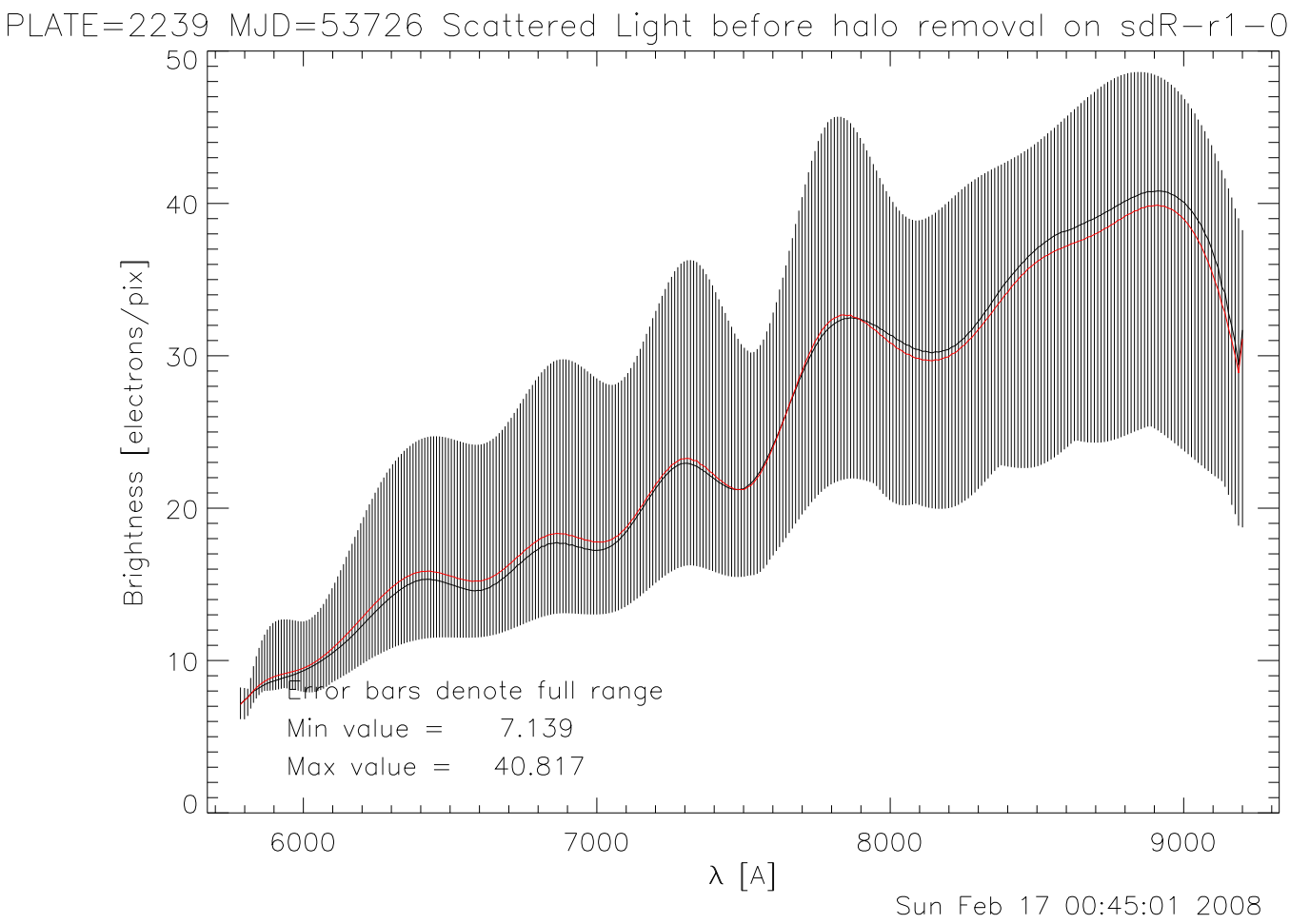

PLATE=2239 MJD=53726 flat extraction chi^2 for sdR−r1−00035690.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

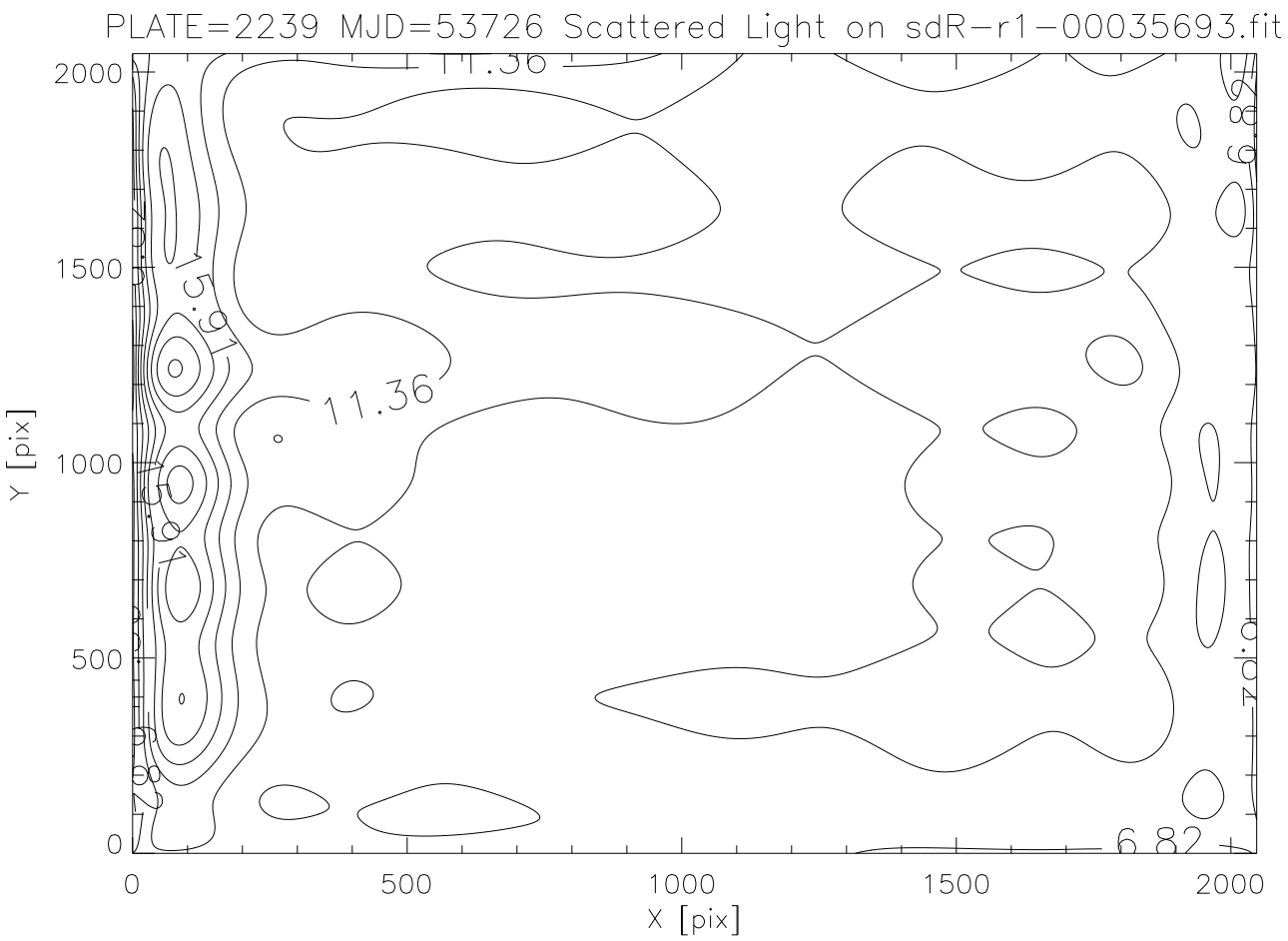

PLATE=2239 MJD=53726 Superflat sdR-r1-00035690.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

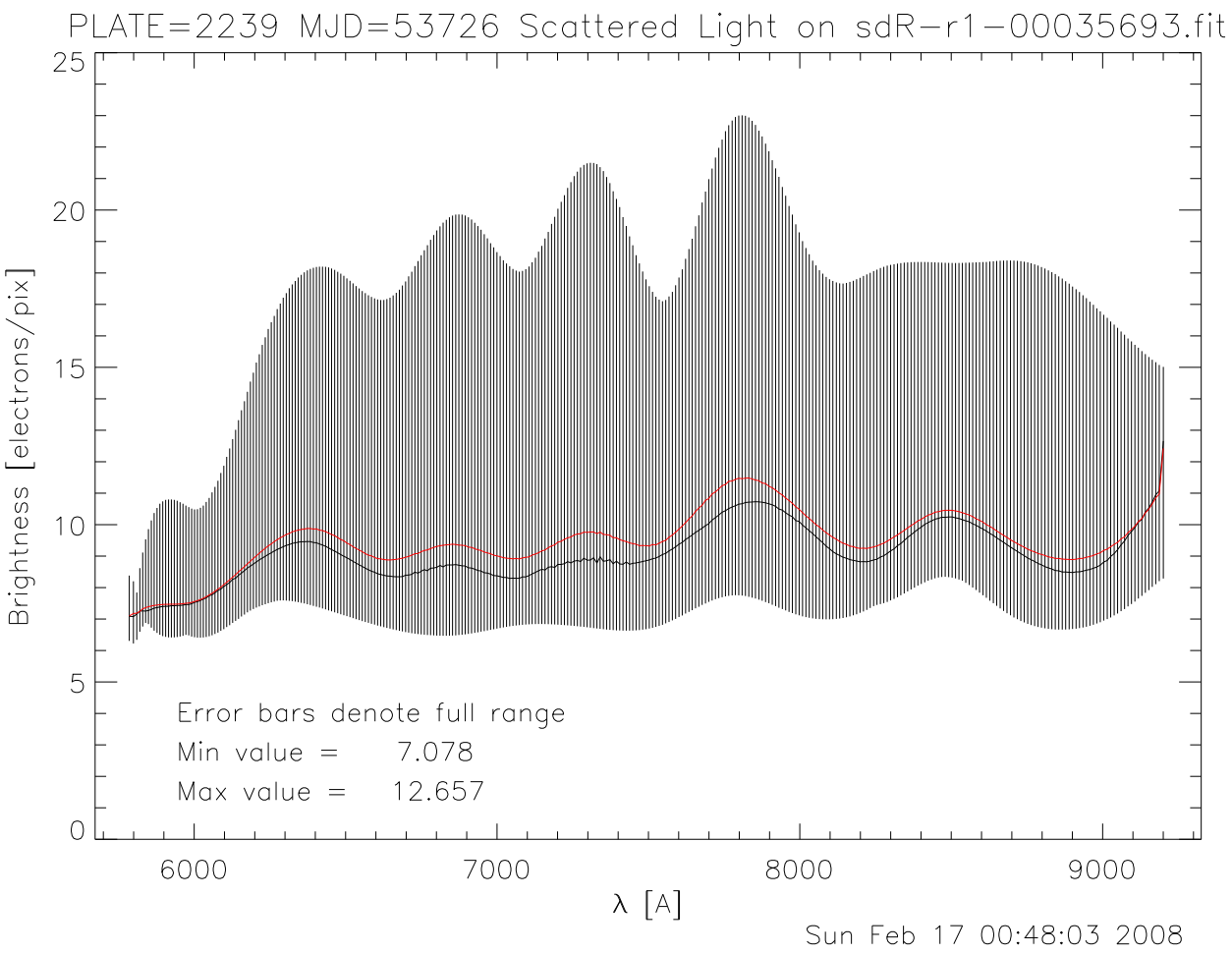

PLATE=2239 MJD=53726 Arcline Fit for sdR-r1-00035691.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sun Feb 17 00:44:01 2008

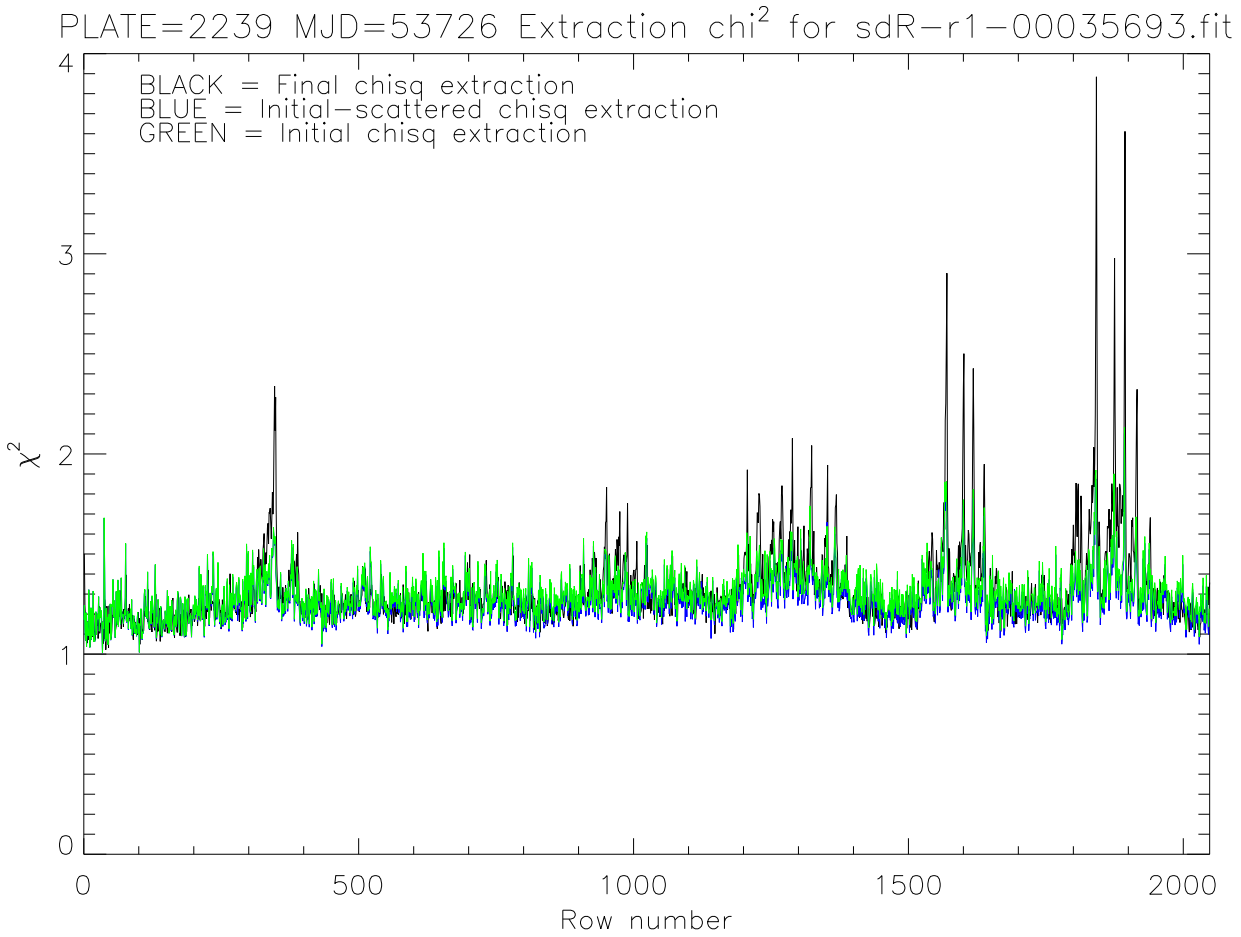

PLATE=2239 MJD=53726 Fiber−Flats for sdR−r1−00035690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.469
Max value = 1.305
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 17 00:44:10 2008

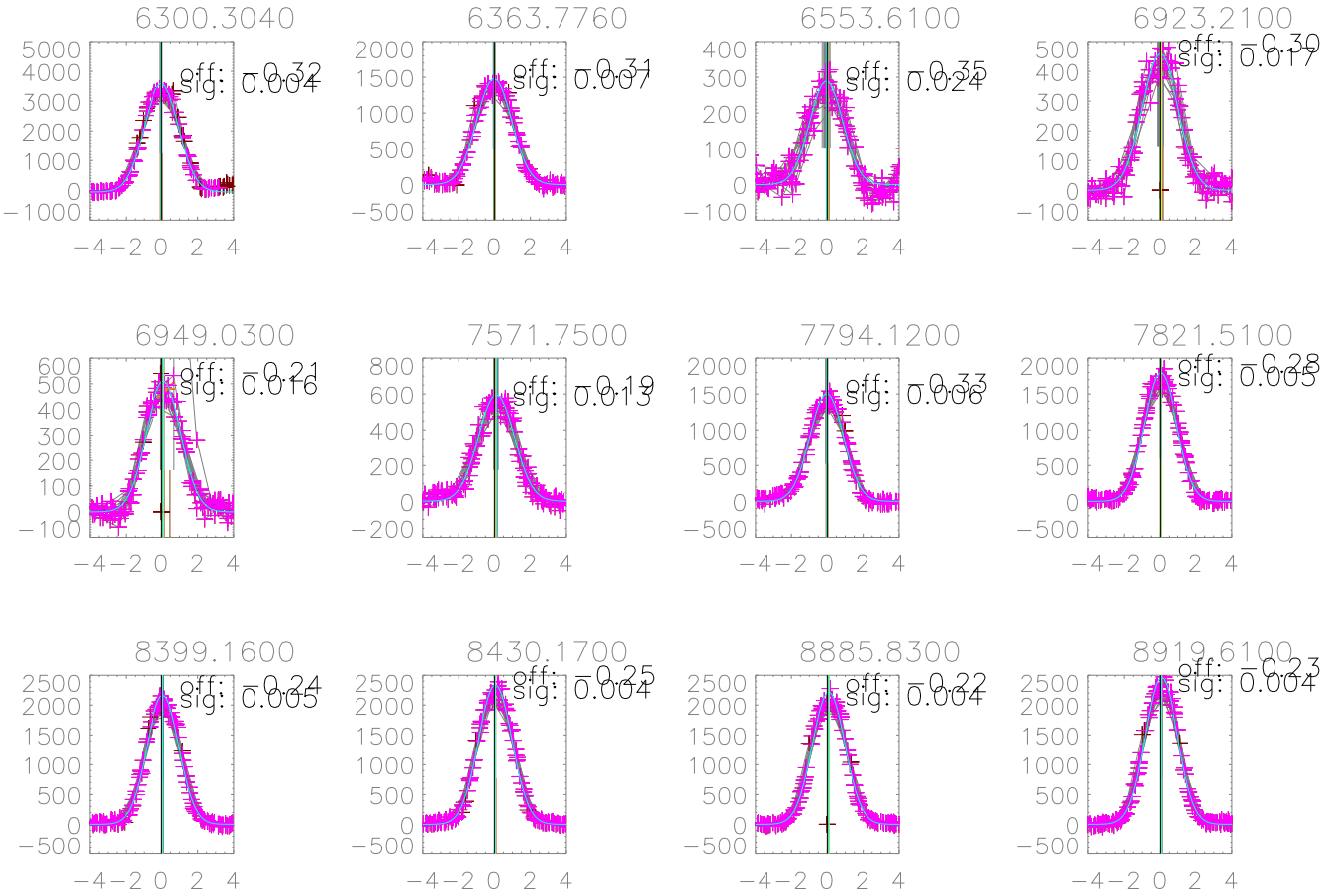

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR−r1−00035693.fi
31.82
22.73
13.64
Y [pix]
X [pix]
0
500
1000
1500
2000

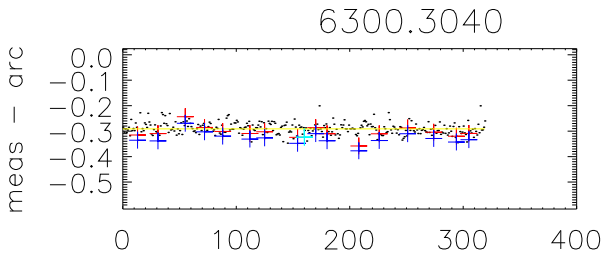

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR-r1-00035693.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.139
Max value = 40.817
Sun Feb 17 00:45:01 2008

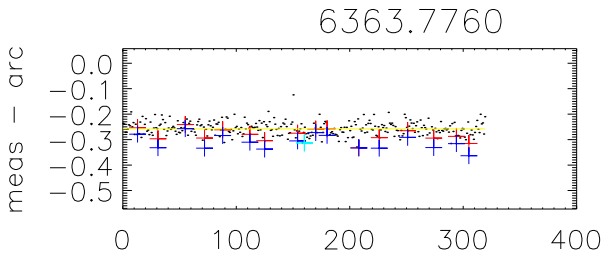

PLATE=2239 MJD=53726 Scattered Light on sdR-r1-00035693.fit
11.36
15.91
11.36
6.82
6.82
0
500
1000
1500
2000
X [pix]
Y [pix]

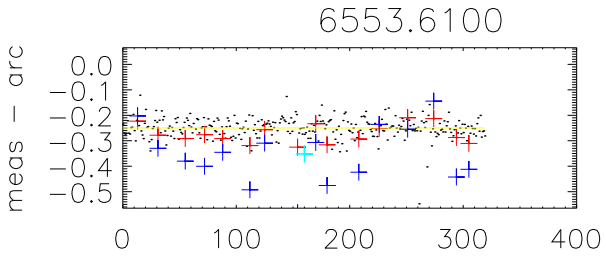

PLATE=2239 MJD=53726 Scattered Light on sdR-r1-00035693.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 7.078
Max value = 12.657
Sun Feb 17 00:48:03 2008

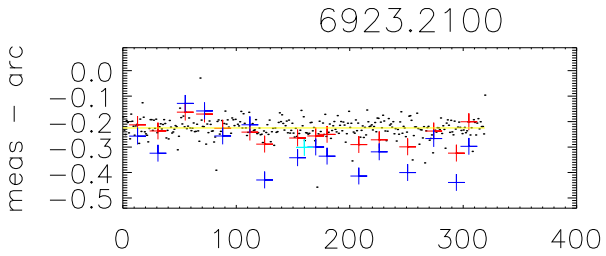

PLATE=2239 MJD=53726 Extraction chi^2 for sdR−r1−00035693.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

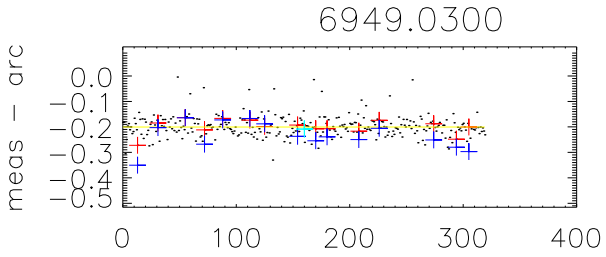

6300.3040
off: −0.32
sig: 0.004
6363.7760
off: −0.31
sig: 0.007
6553.6100
off: −0.35
sig: 0.024
6923.2100
off: −0.30
sig: 0.017
6949.0300
off: −0.21
sig: 0.016
7571.7500
off: −0.19
sig: 0.013
7794.1200
off: −0.33
sig: 0.006
7821.5100
off: −0.28
sig: 0.005
8399.1600
off: −0.24
sig: 0.005
8430.1700
off: −0.25
sig: 0.004
8885.8300
off: −0.22
sig: 0.004
8919.6100
off: −0.23
sig: 0.004

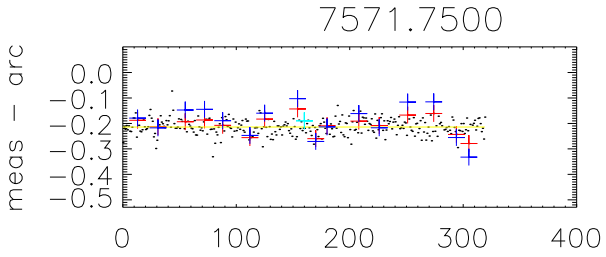

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

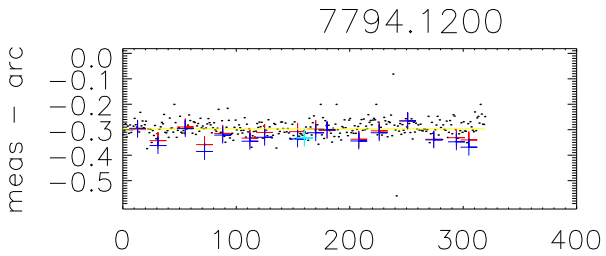

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

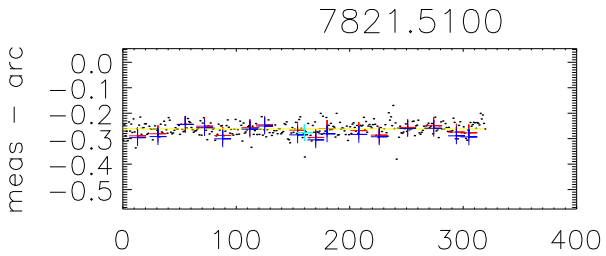

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

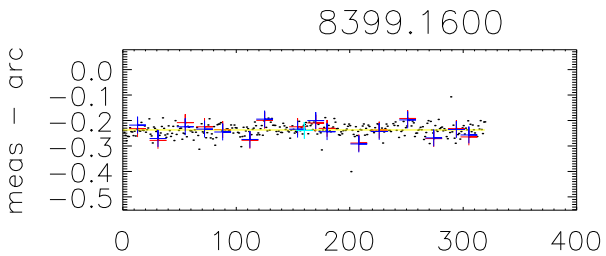

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

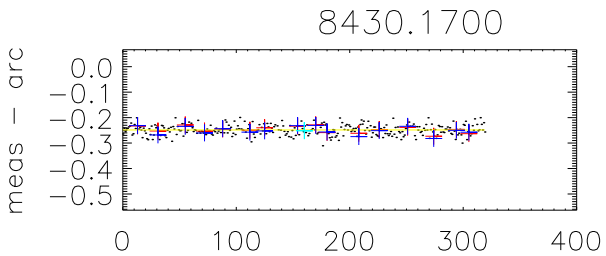

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

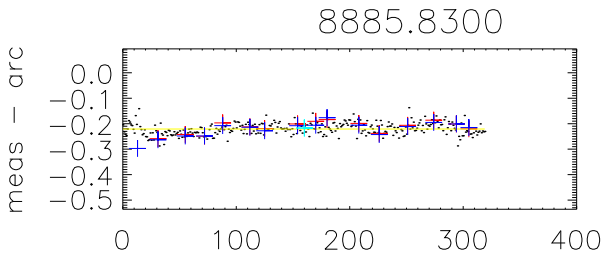

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

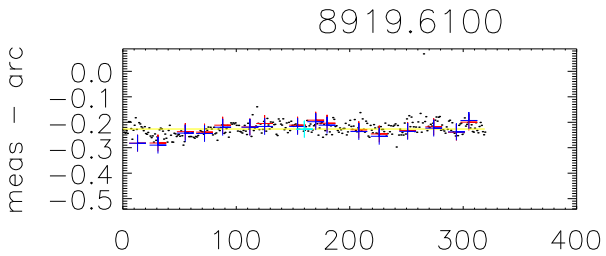

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

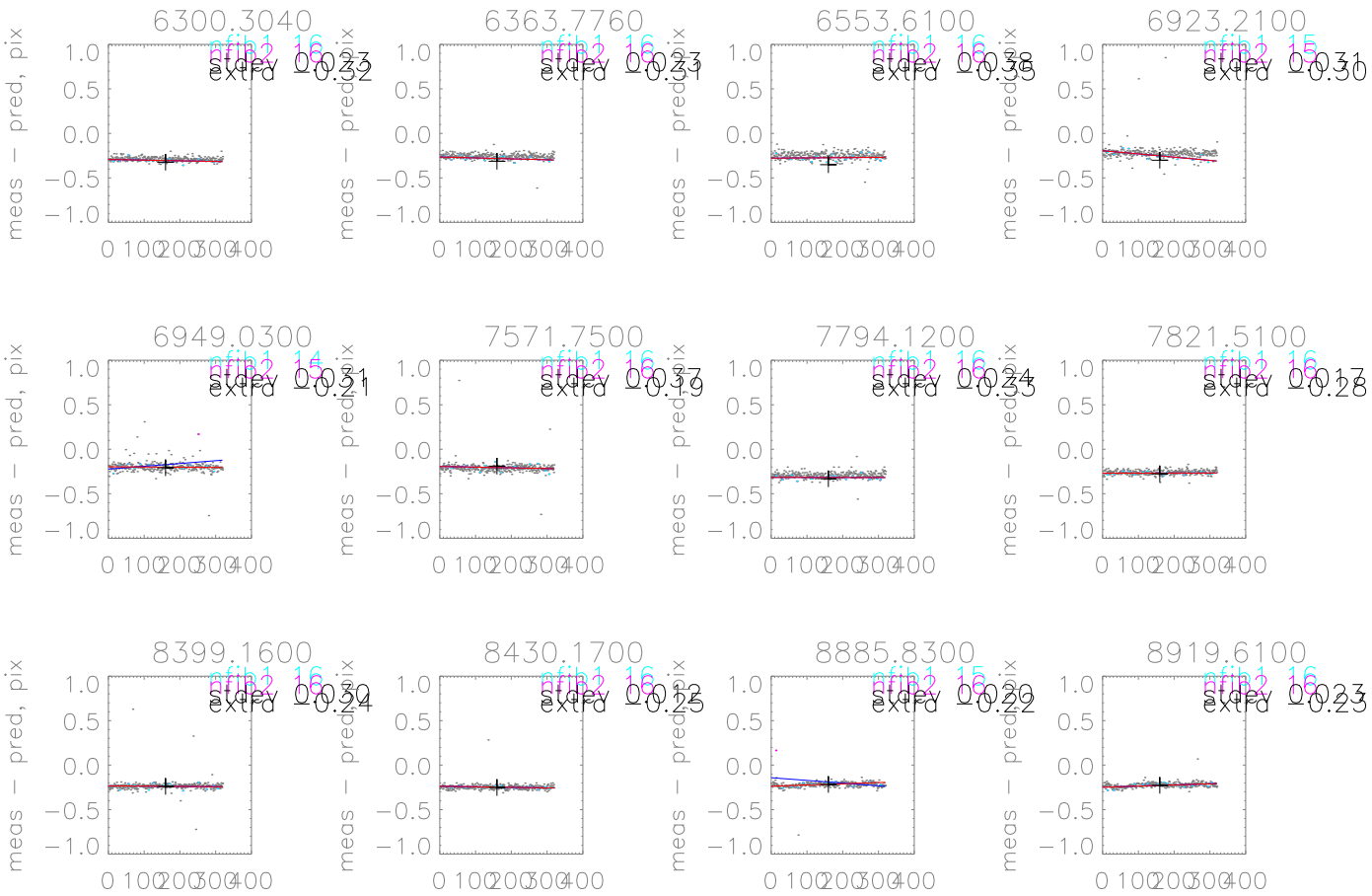

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

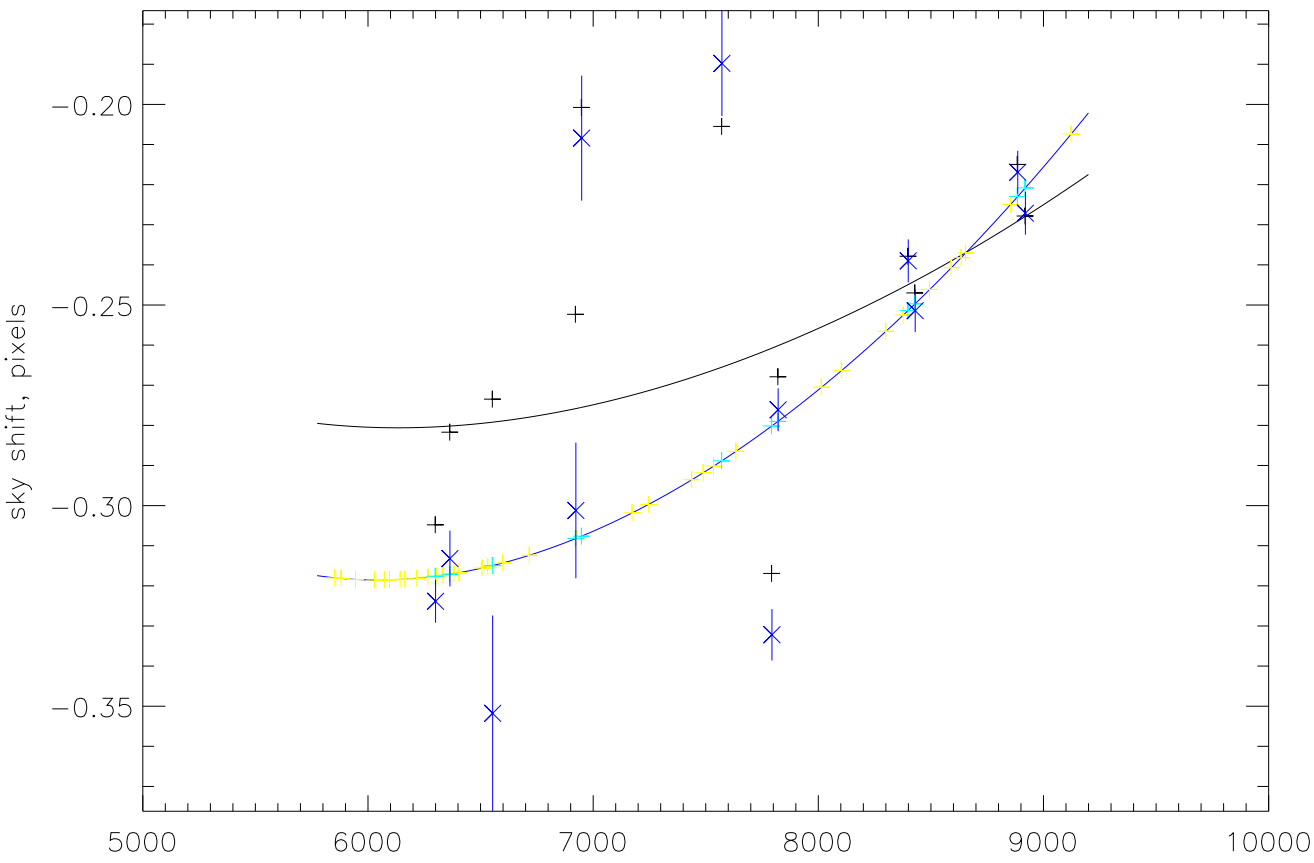

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

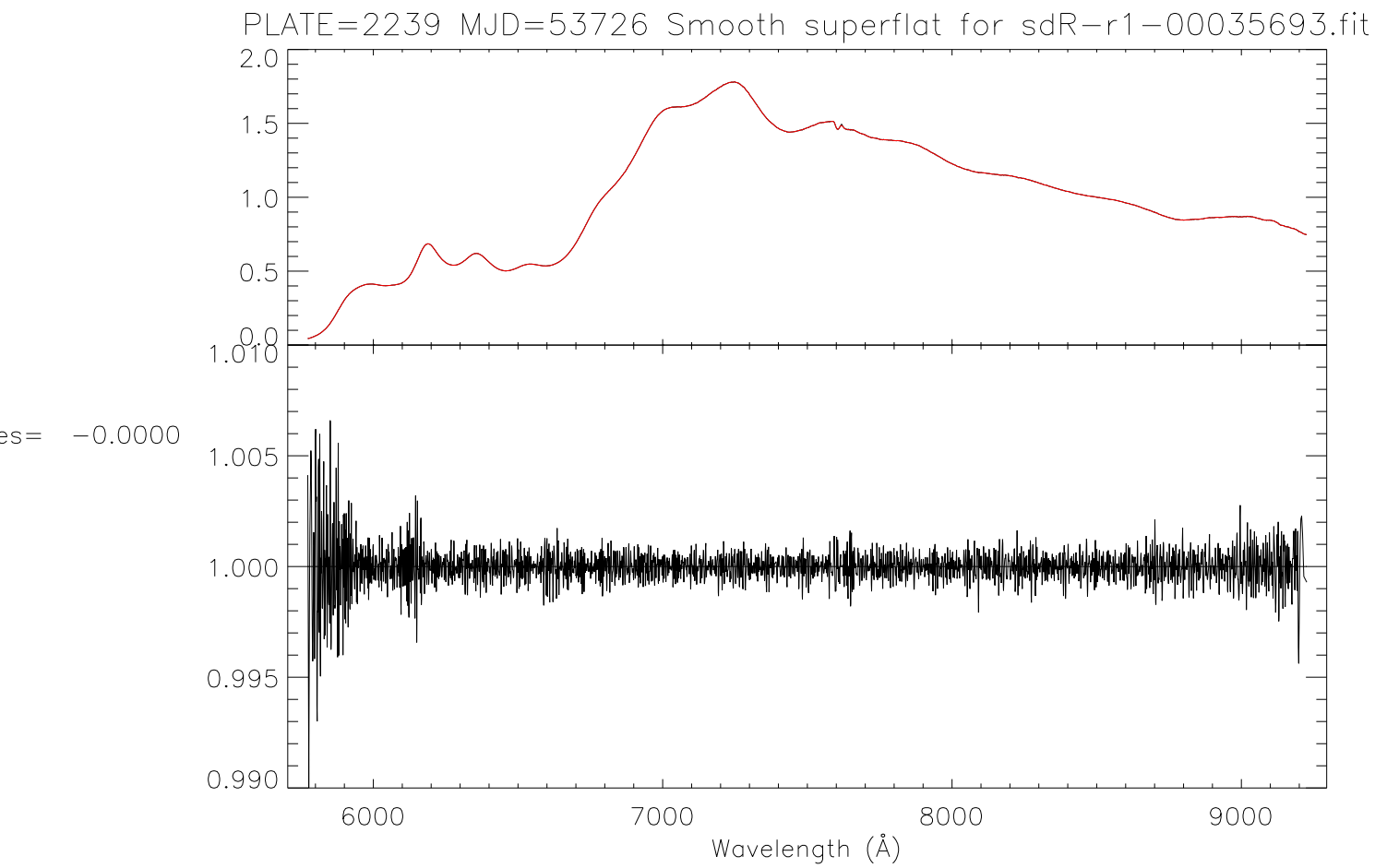

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

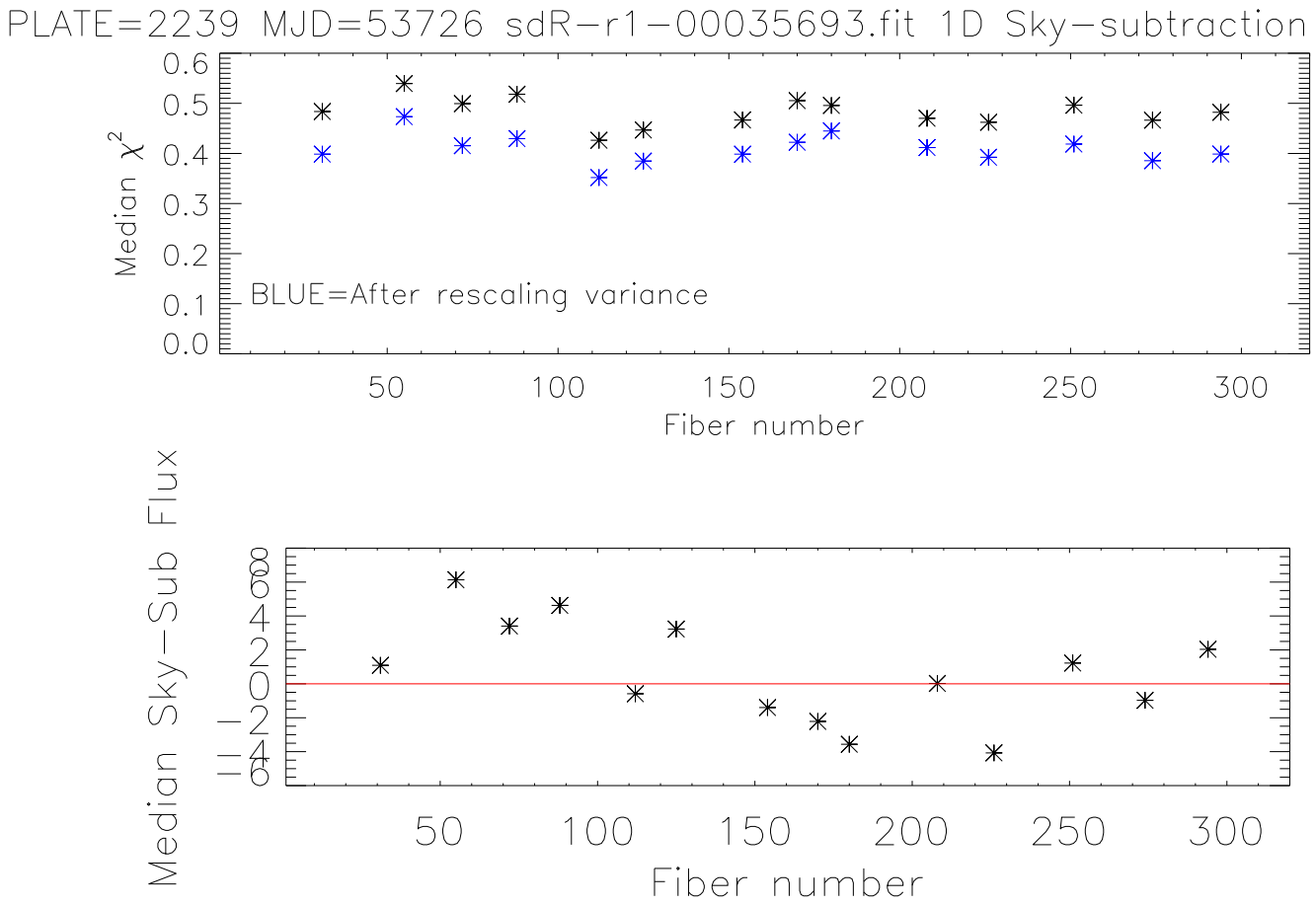

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

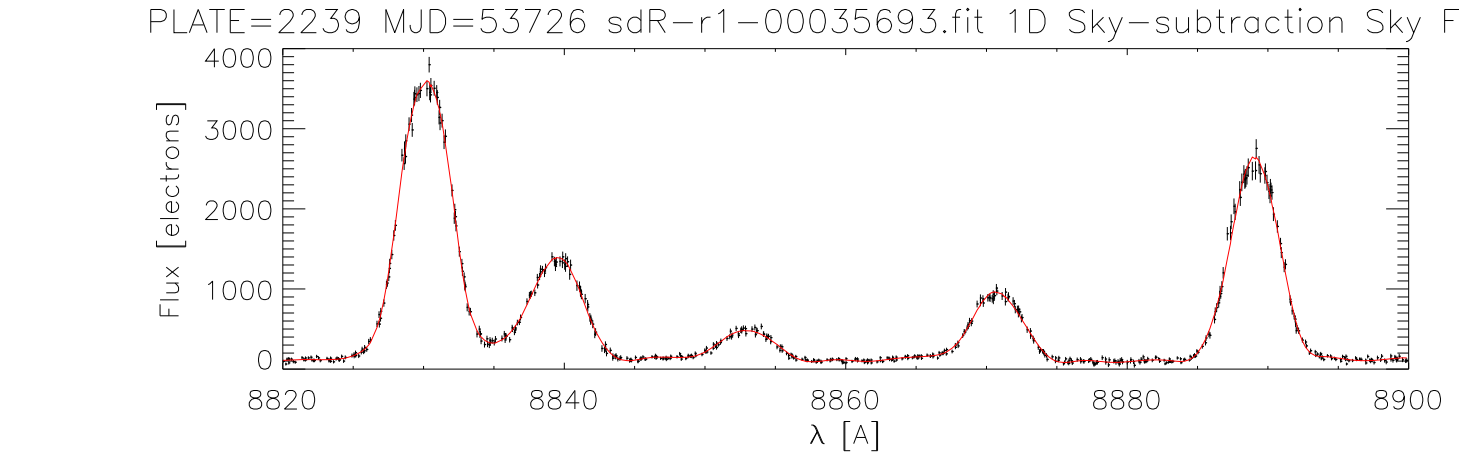

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

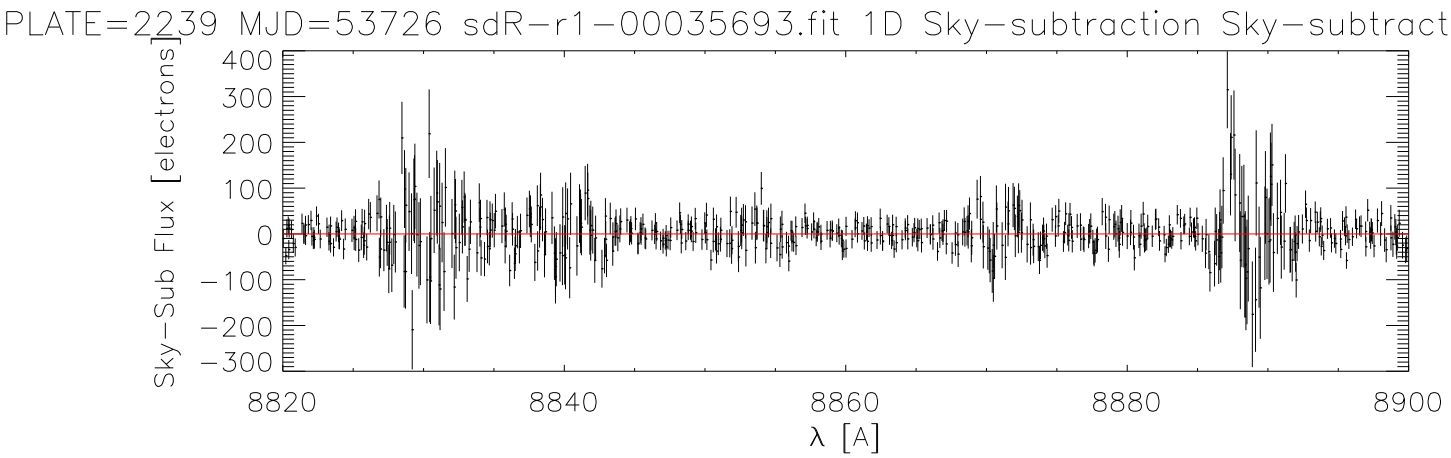

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhi1 16
mfhi2 16
stdev 0.23
extrd 0.32
stdev 0.23
extrd 0.31
stdev 0.38
extrd 0.36
mfhi2 15
stdev 0.31
extrd 0.30
mfhi1 14
stdev 0.31
extrd 0.21
stdev 0.37
extrd 0.19
stdev 0.24
extrd 0.33
stdev 0.17
extrd 0.28
stdev 0.30
extrd 0.24
stdev 0.12
extrd 0.25
stdev 0.20
extrd 0.22
stdev 0.23
extrd 0.23
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

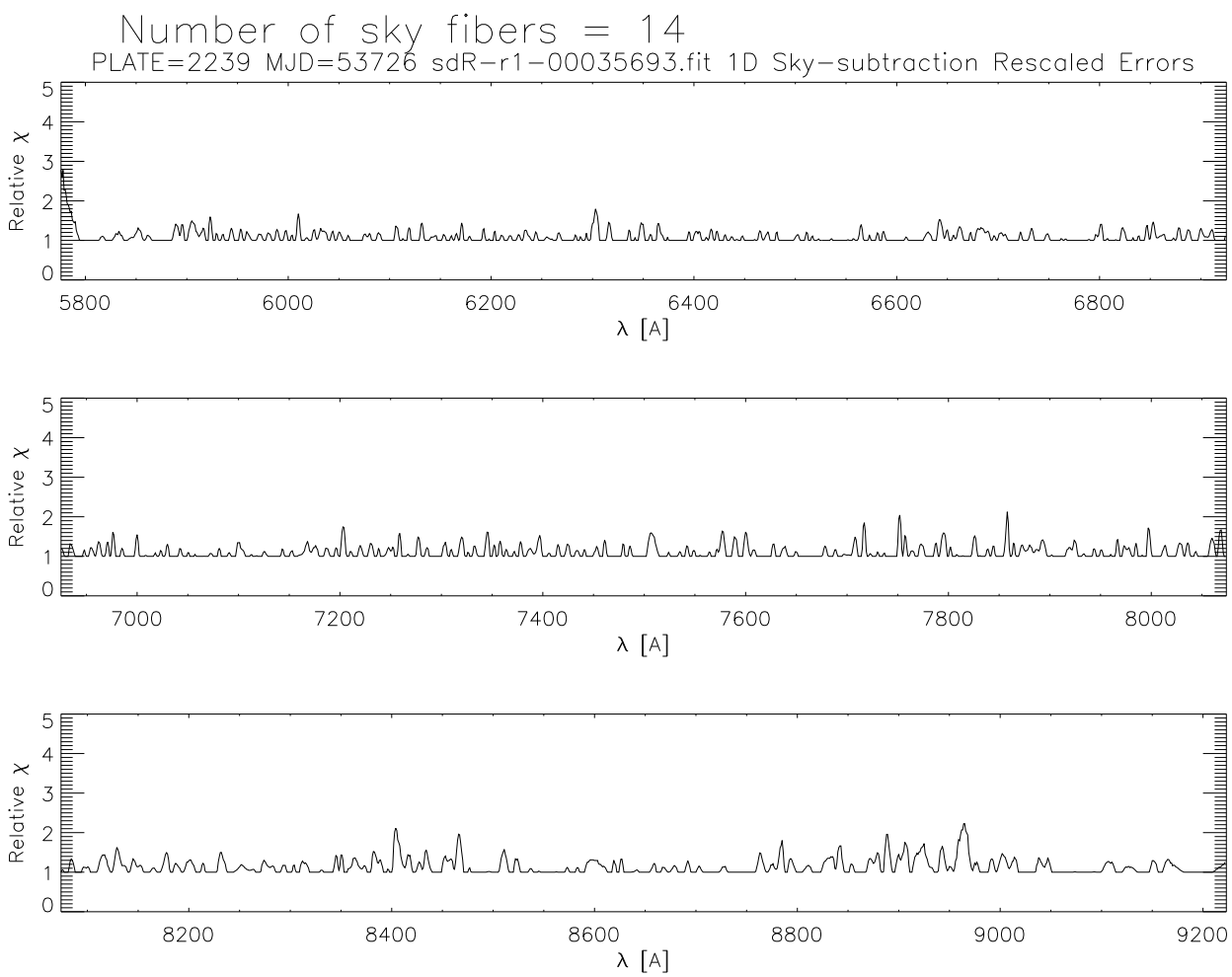

sky shift, pixels
−0.20
−0.25
−0.30
−0.35
5000
6000
7000
8000
9000
10000

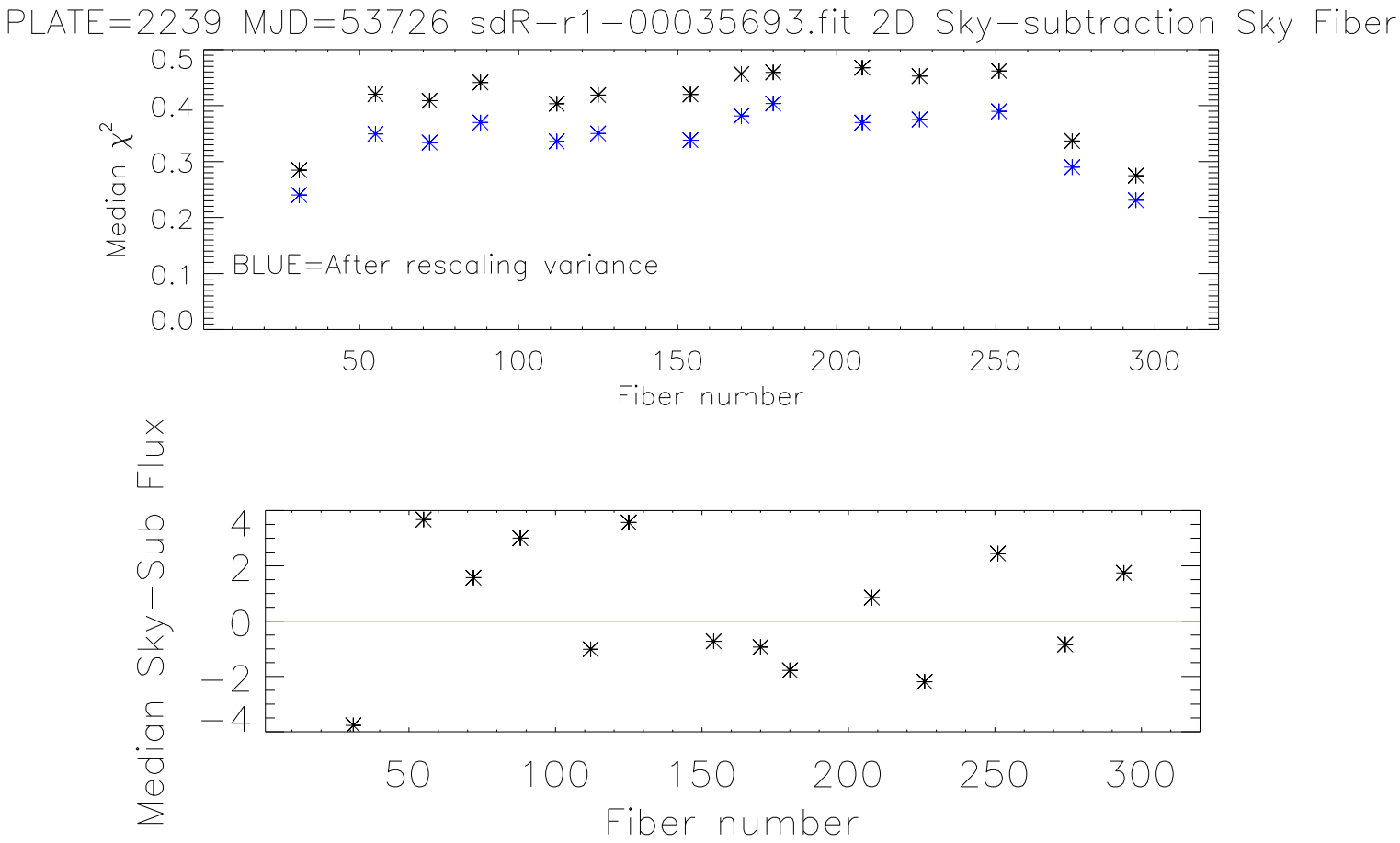

PLATE=2239 MJD=53726 Smooth superflat for sdR-r1-00035693.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

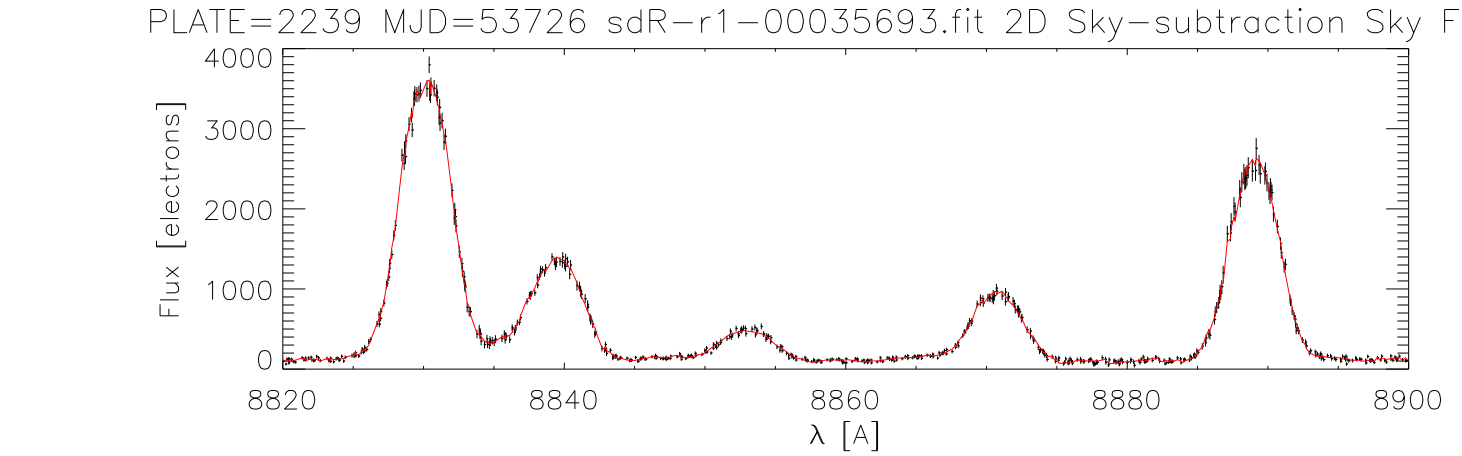

PLATE=2239 MJD=53726 sdR-r1-00035693.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

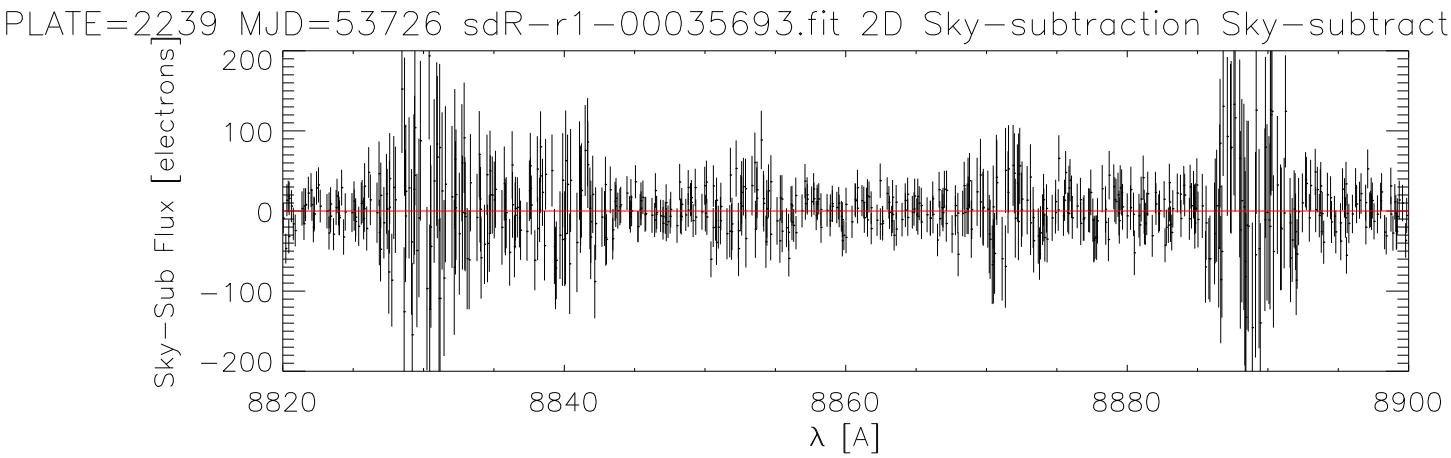

PLATE=2239 MJD=53726 sdR-r1-00035693.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

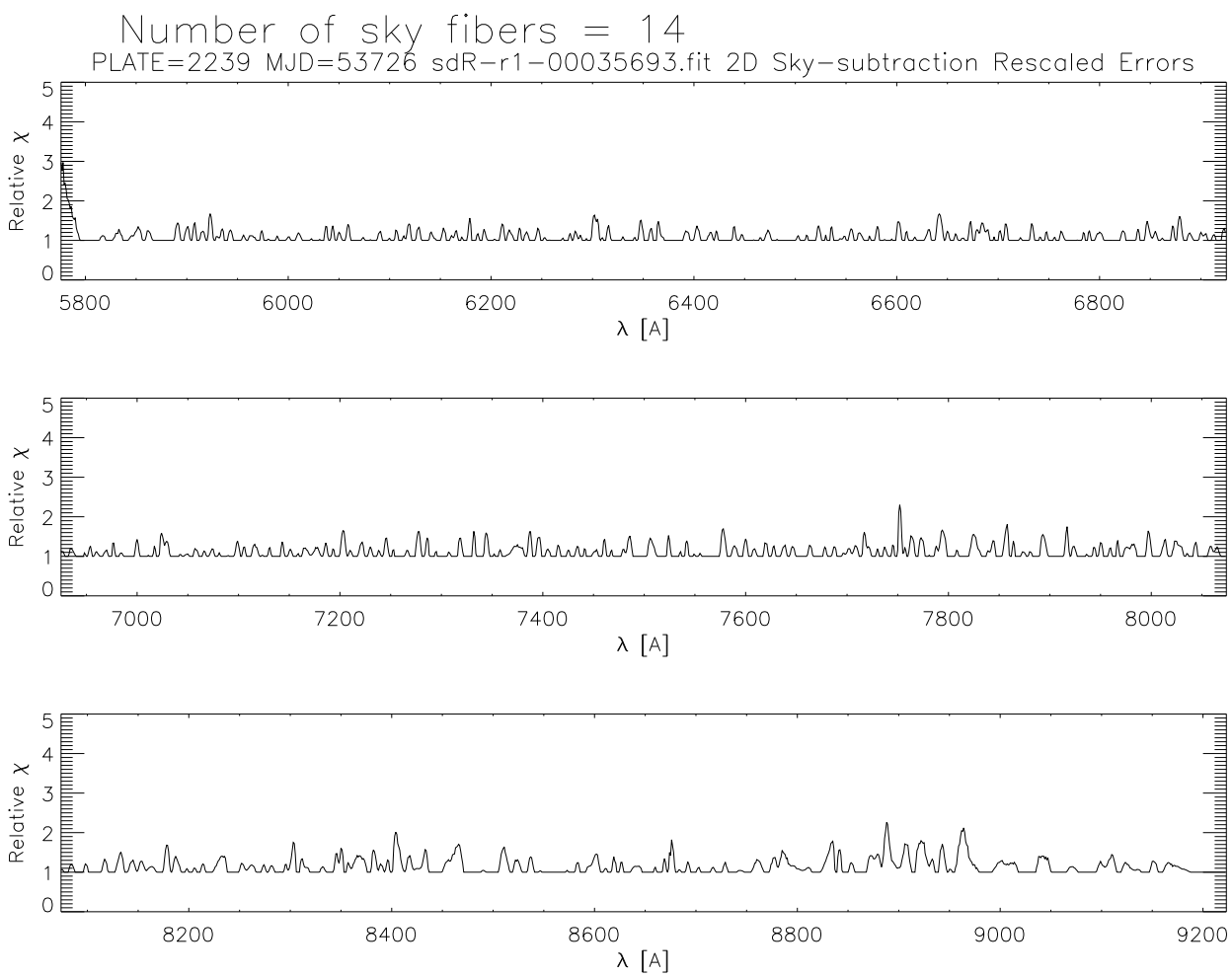

PLATE=2239 MJD=53726 sdR-r1-00035693.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

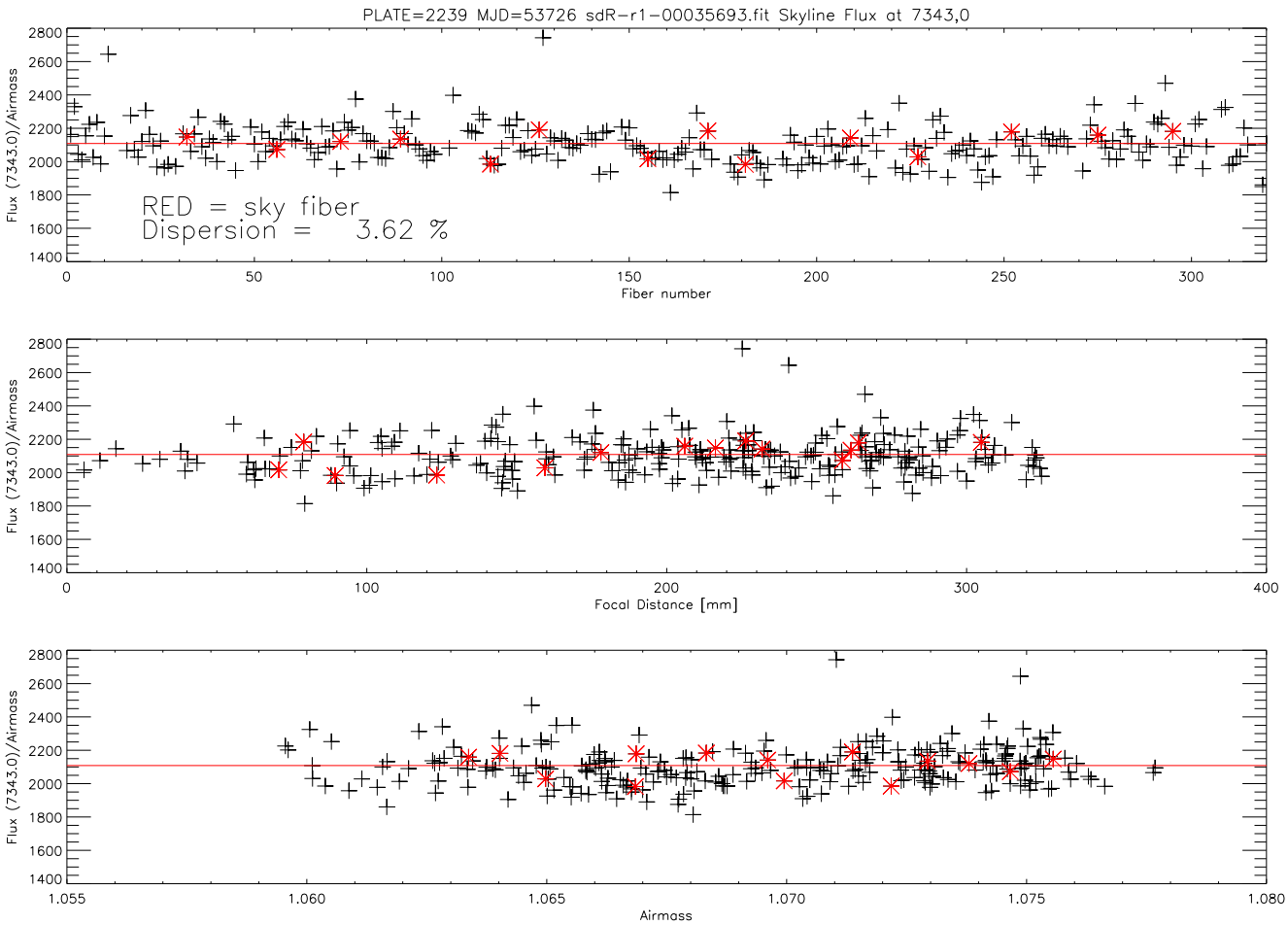

Number of sky fibers = 14
PLATE=2239 MJD=53726 sdR-r1-00035693.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

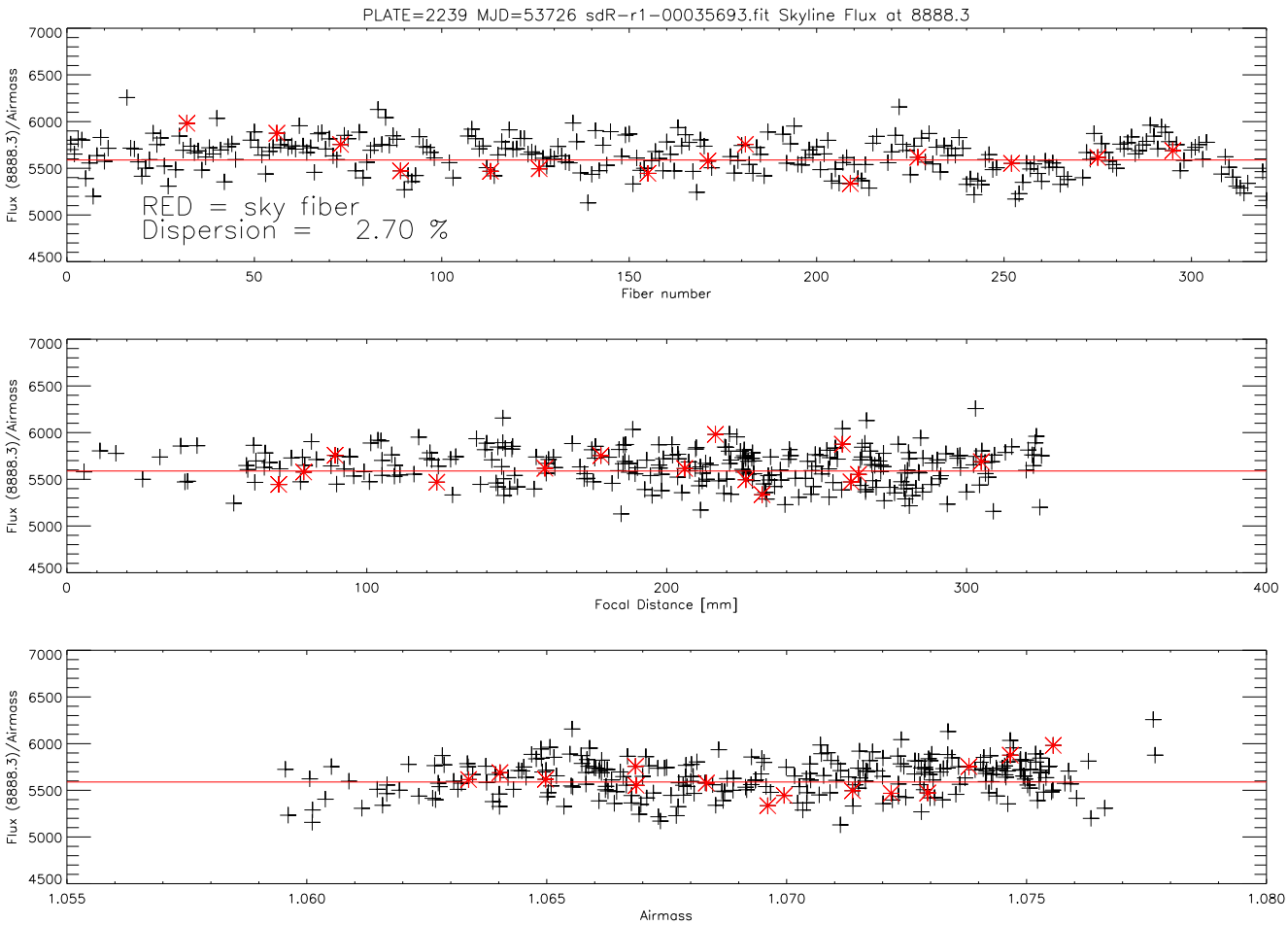

PLATE=2239 MJD=53726 sdR-r1-00035693.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

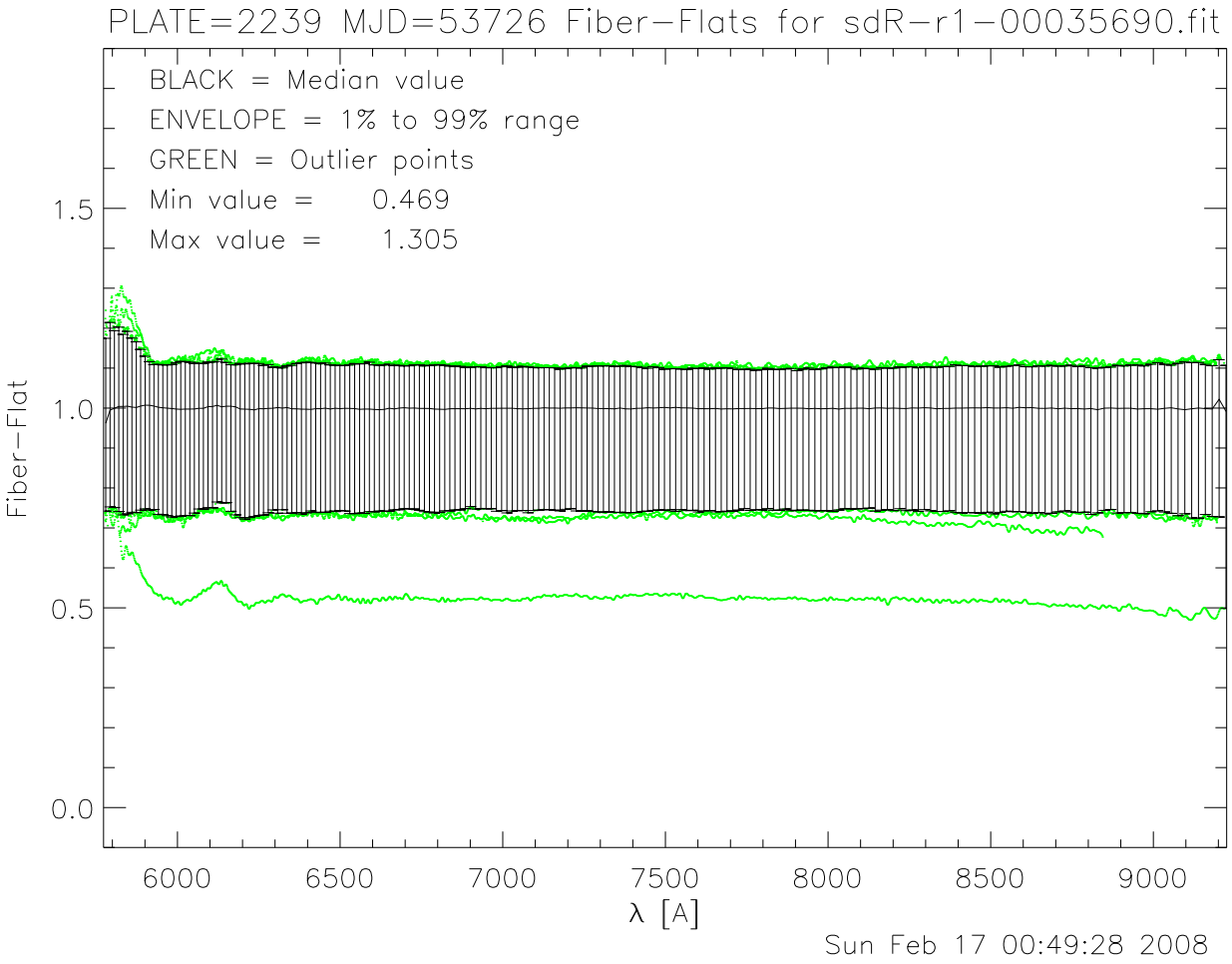

PLATE=2239 MJD=53726 sdR-r1-00035693.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

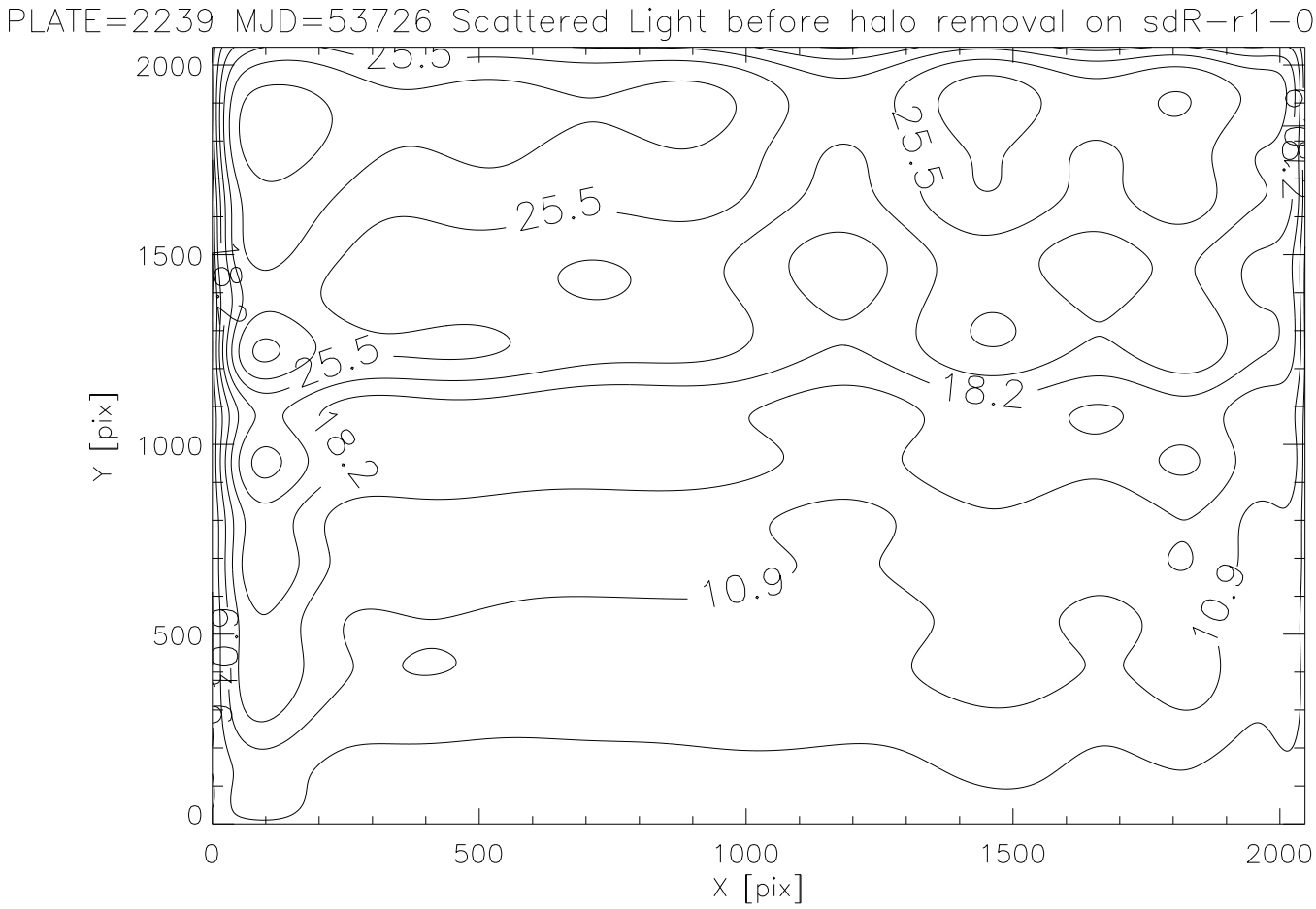

PLATE=2239 MJD=53726 sdR-r1-00035693.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

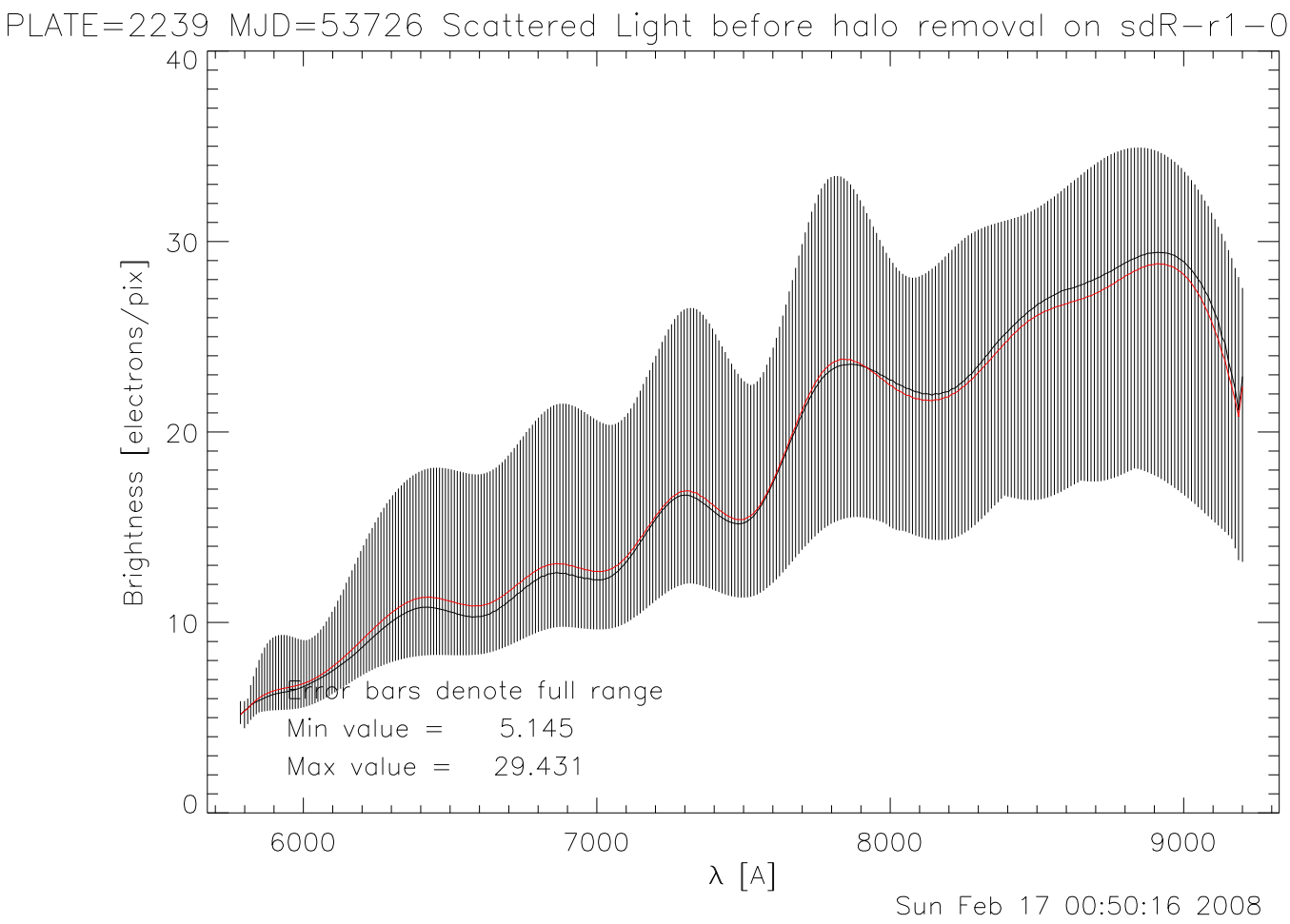

Number of sky fibers = 14
PLATE=2239 MJD=53726 sdR-r1-00035693.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

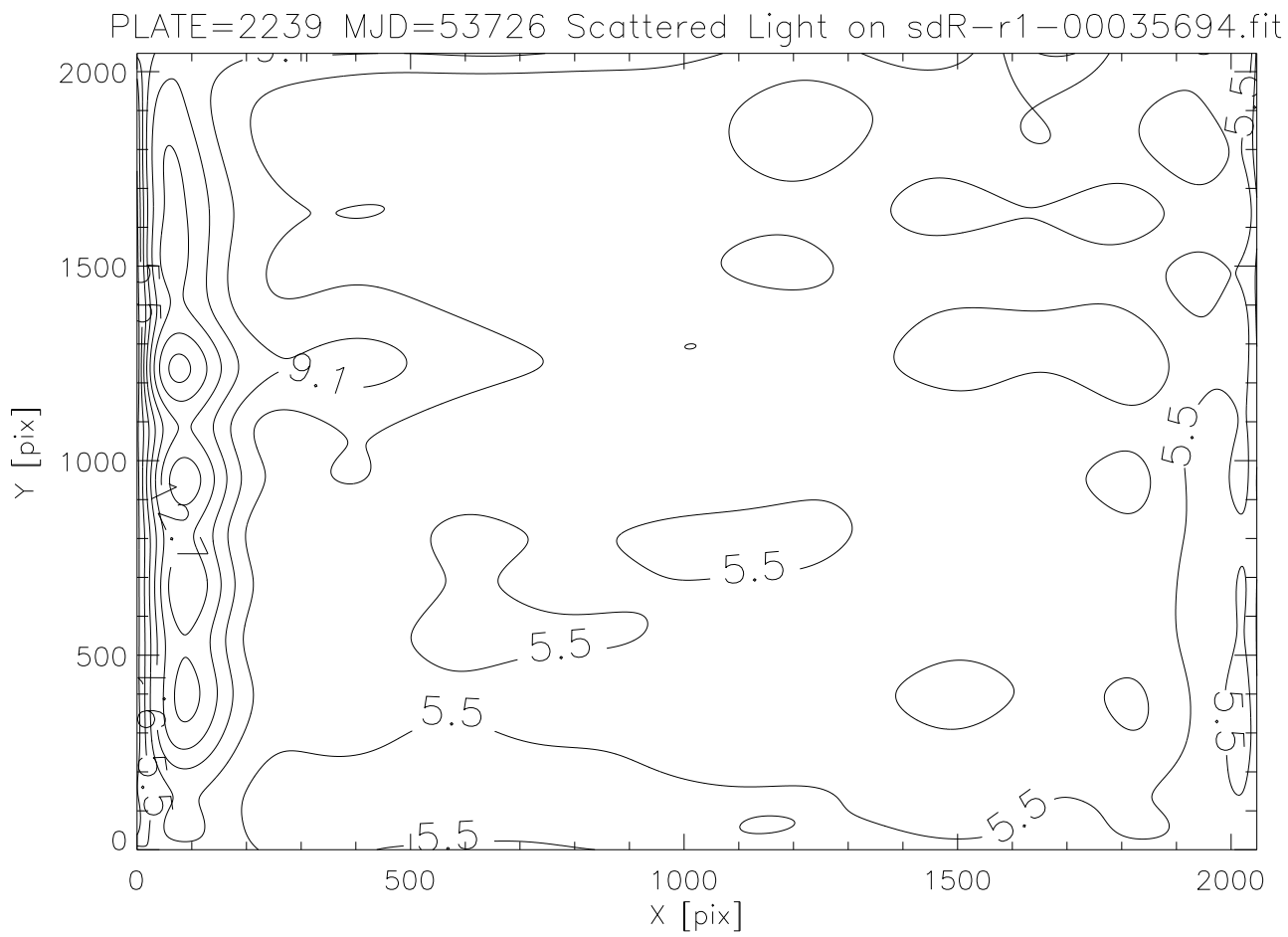

PLATE=2239 MJD=53726 sdR-r1-00035693.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.62 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

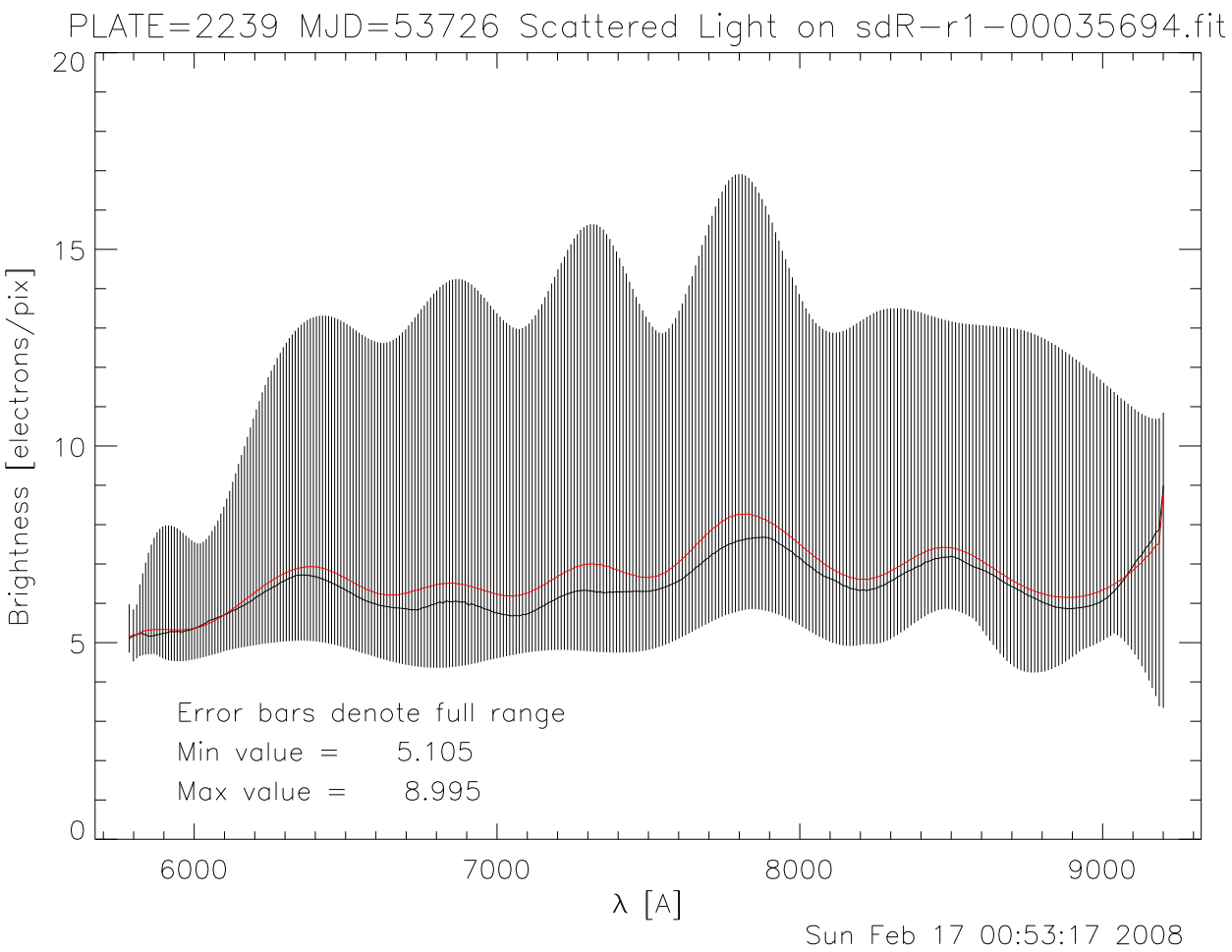

PLATE=2239 MJD=53726 sdR-r1-00035693.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.70 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

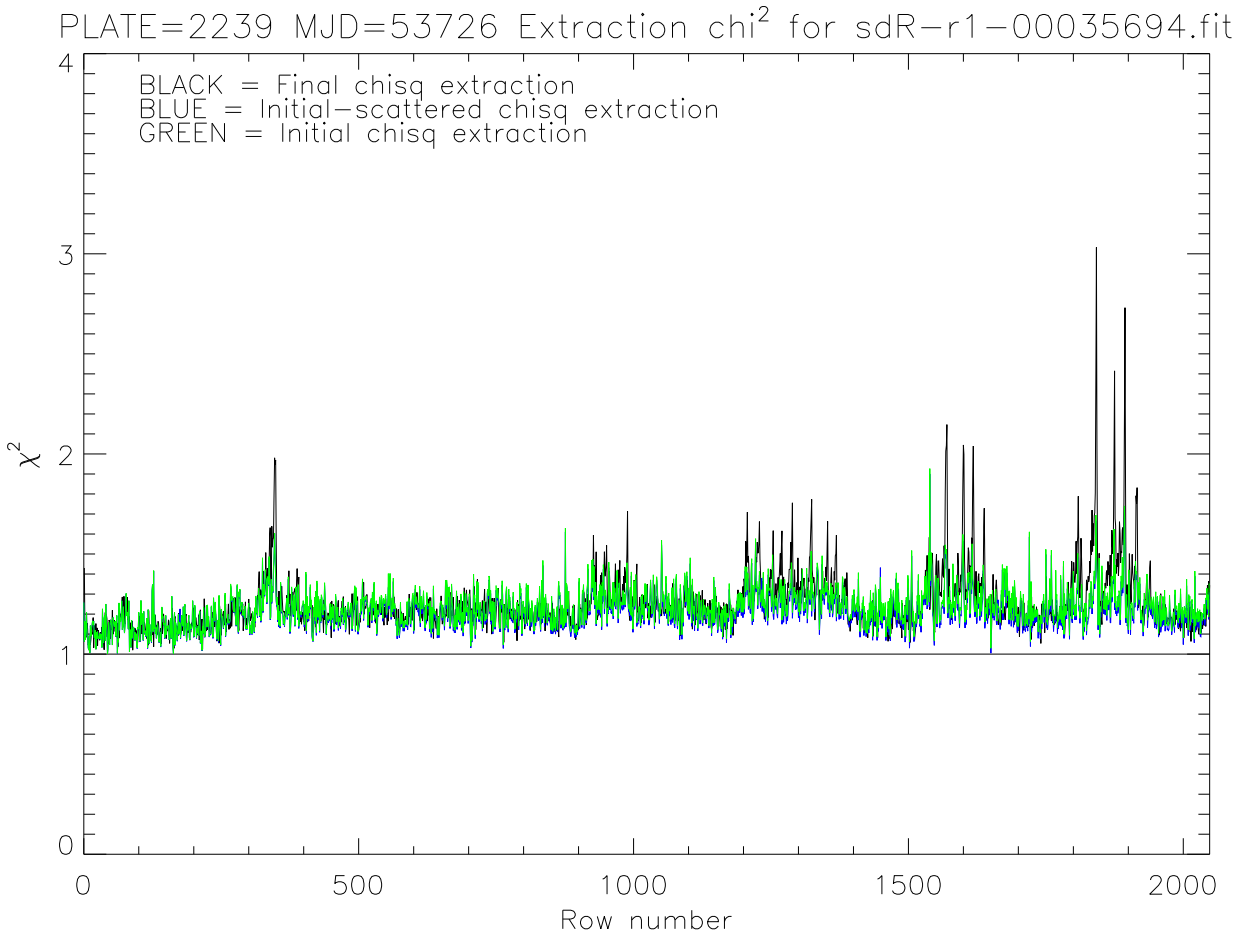

PLATE=2239 MJD=53726 Fiber−Flats for sdR−r1−00035690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.469
Max value = 1.305
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 17 00:49:28 2008

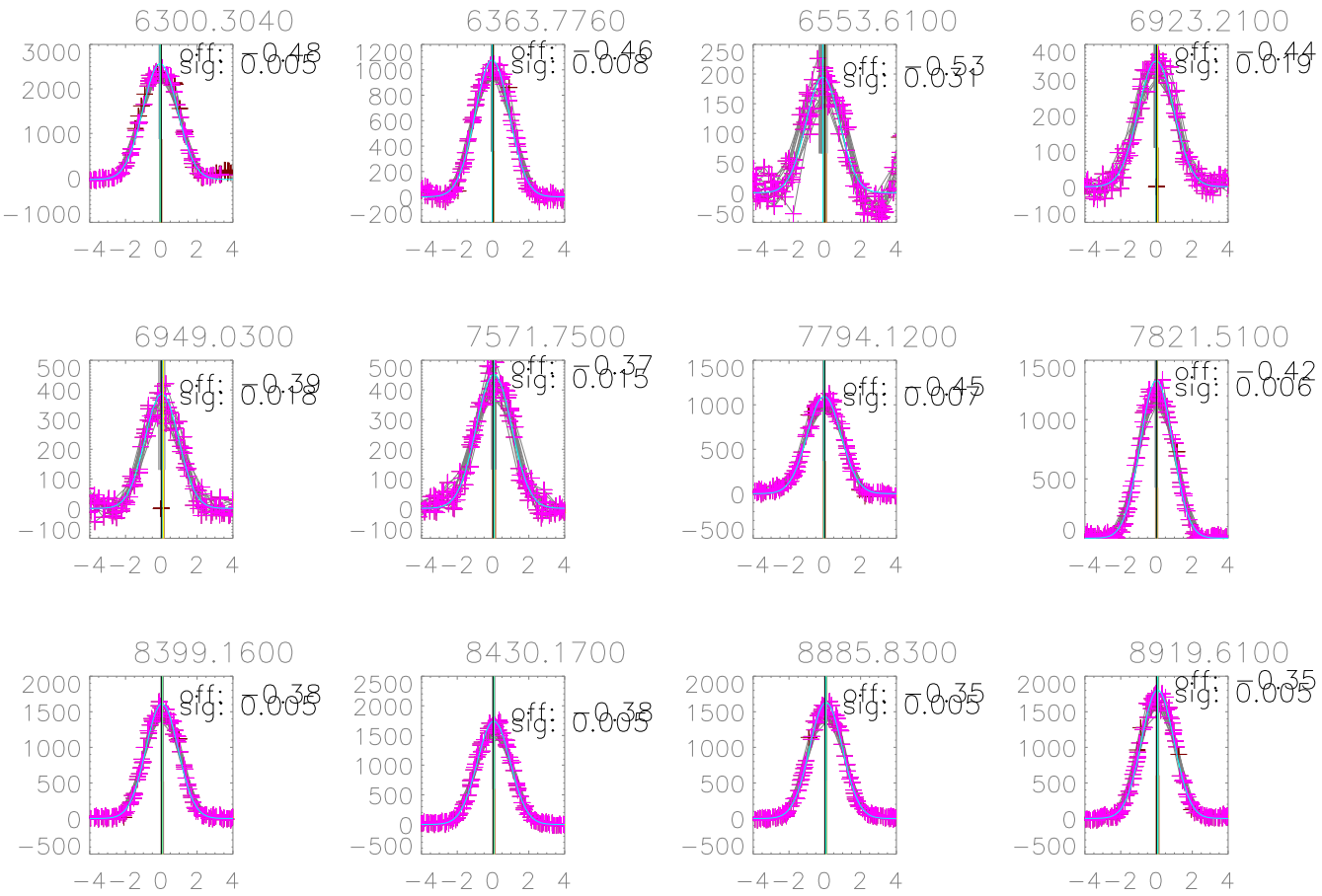

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR-r1-00035694.fi
25.5
25.5
25.5
18.2
18.2
18.2
10.9
10.9
10.9
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

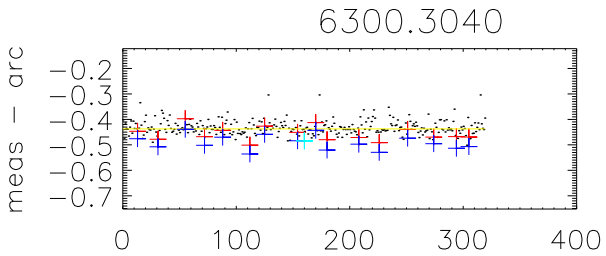

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR-r1-00035694.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.145
Max value = 29.431
Sun Feb 17 00:50:16 2008

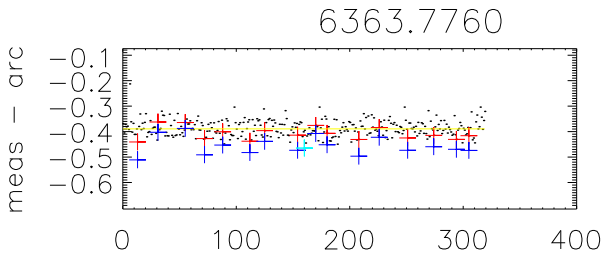

PLATE=2239 MJD=53726 Scattered Light on sdR−r1−00035694.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
5.5

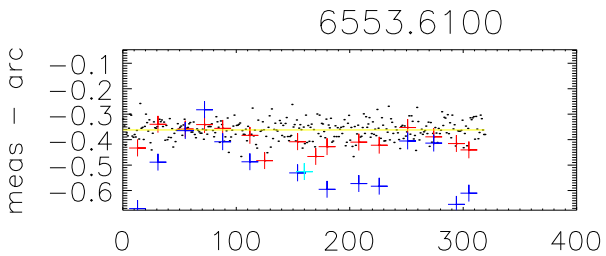

PLATE=2239 MJD=53726 Scattered Light on sdR-r1-00035694.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.105
Max value = 8.995
Sun Feb 17 00:53:17 2008

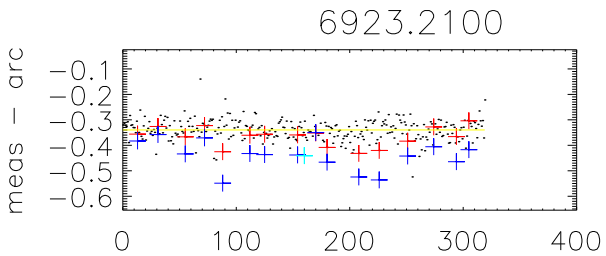

PLATE=2239 MJD=53726 Extraction chi^2 for sdR−r1−00035694.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

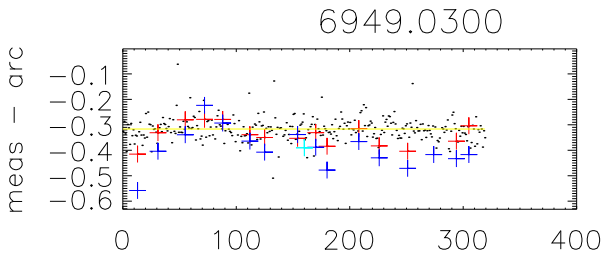

6300.3040
off: −0.48
sig: 0.005
6363.7760
off: −0.46
sig: 0.008
6553.6100
off: −0.53
sig: 0.031
6923.2100
off: −0.44
sig: 0.019
6949.0300
off: −0.39
sig: 0.018
7571.7500
off: −0.37
sig: 0.015
7794.1200
off: −0.45
sig: 0.007
7821.5100
off: −0.42
sig: 0.006
8399.1600
off: −0.38
sig: 0.005
8430.1700
off: −0.38
sig: 0.005
8885.8300
off: −0.35
sig: 0.005
8919.6100
off: −0.35
sig: 0.005

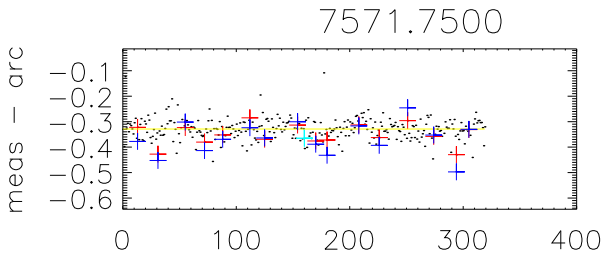

6300.3040
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

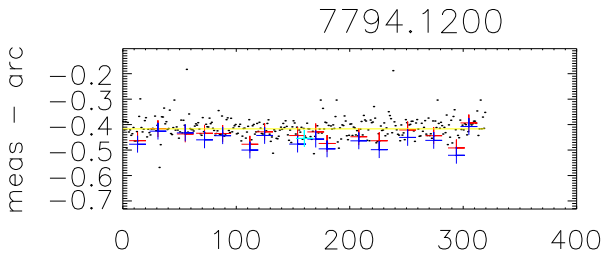

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

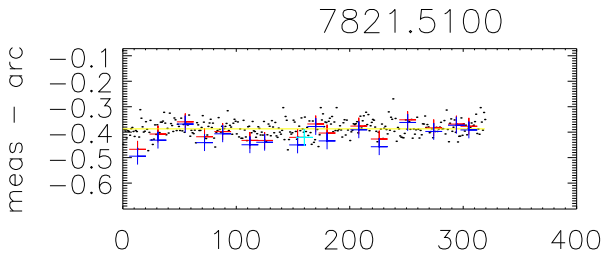

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

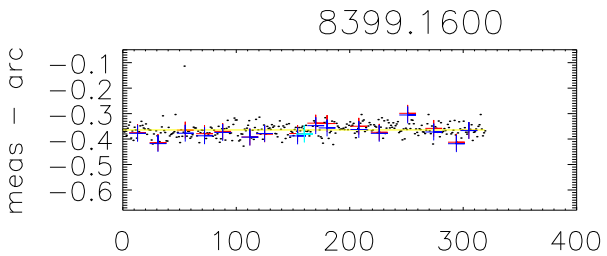

6923.2100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

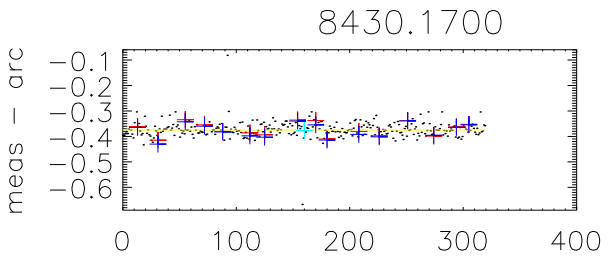

6949.0300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

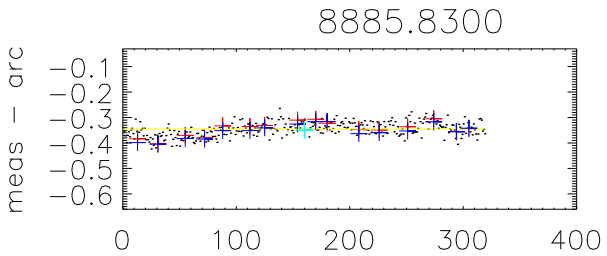

7571.7500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

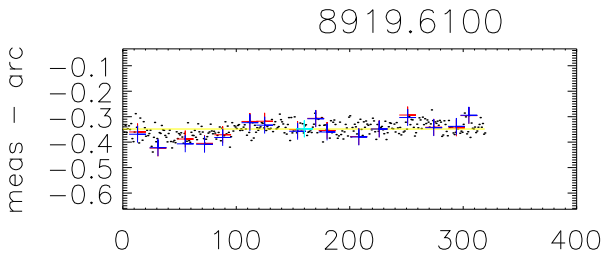

7794.1200
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

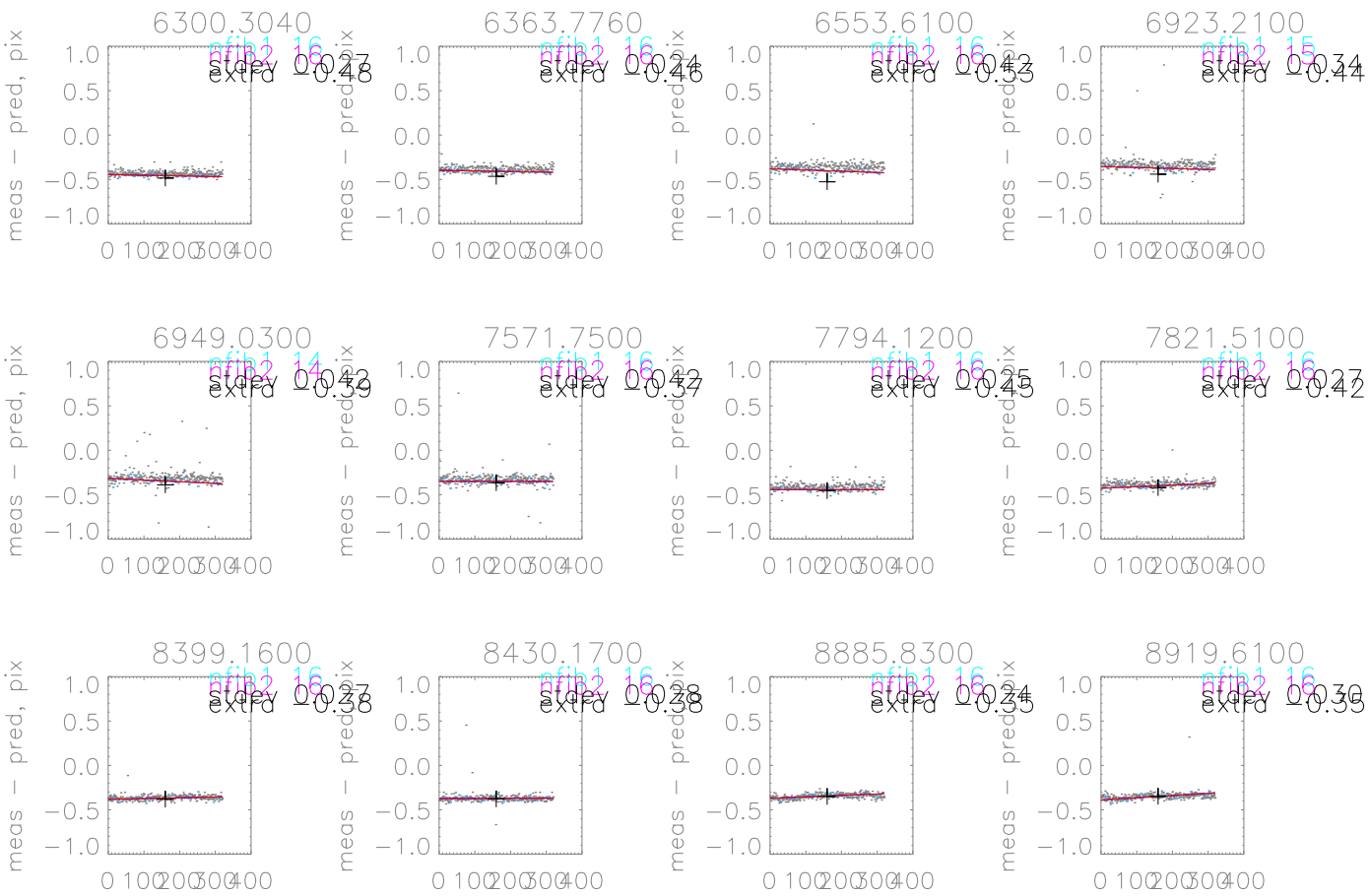

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

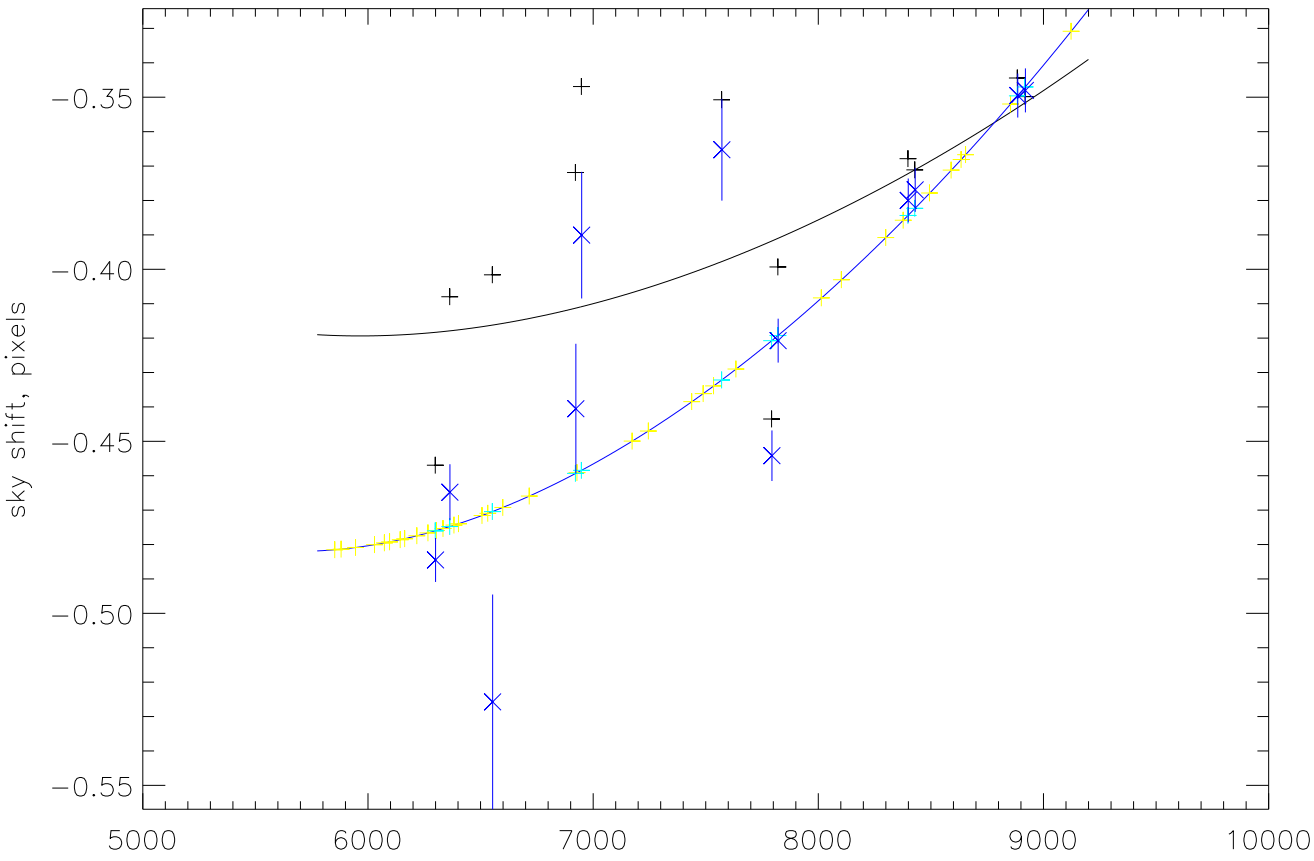

8399.1600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

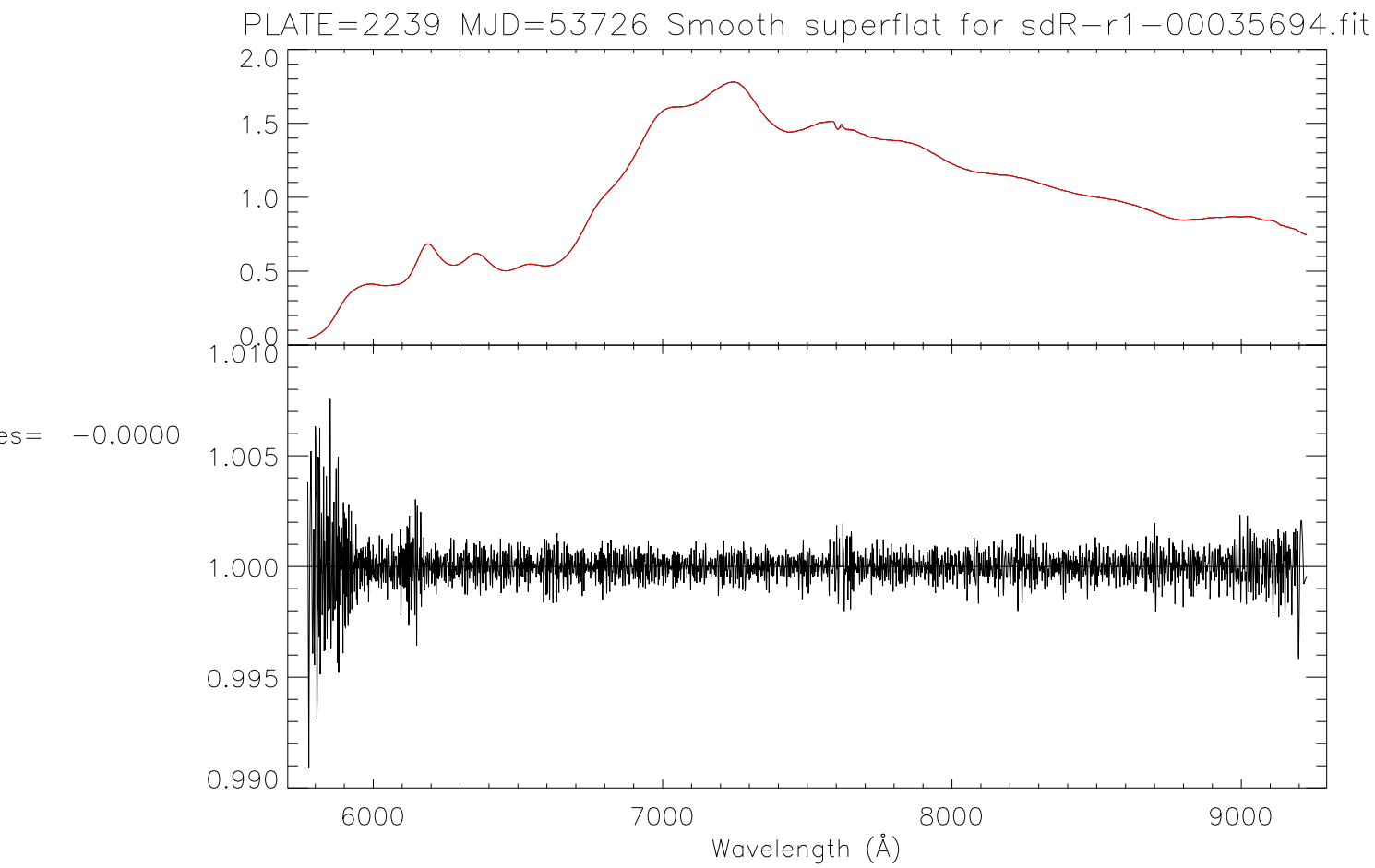

8430.1700
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


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

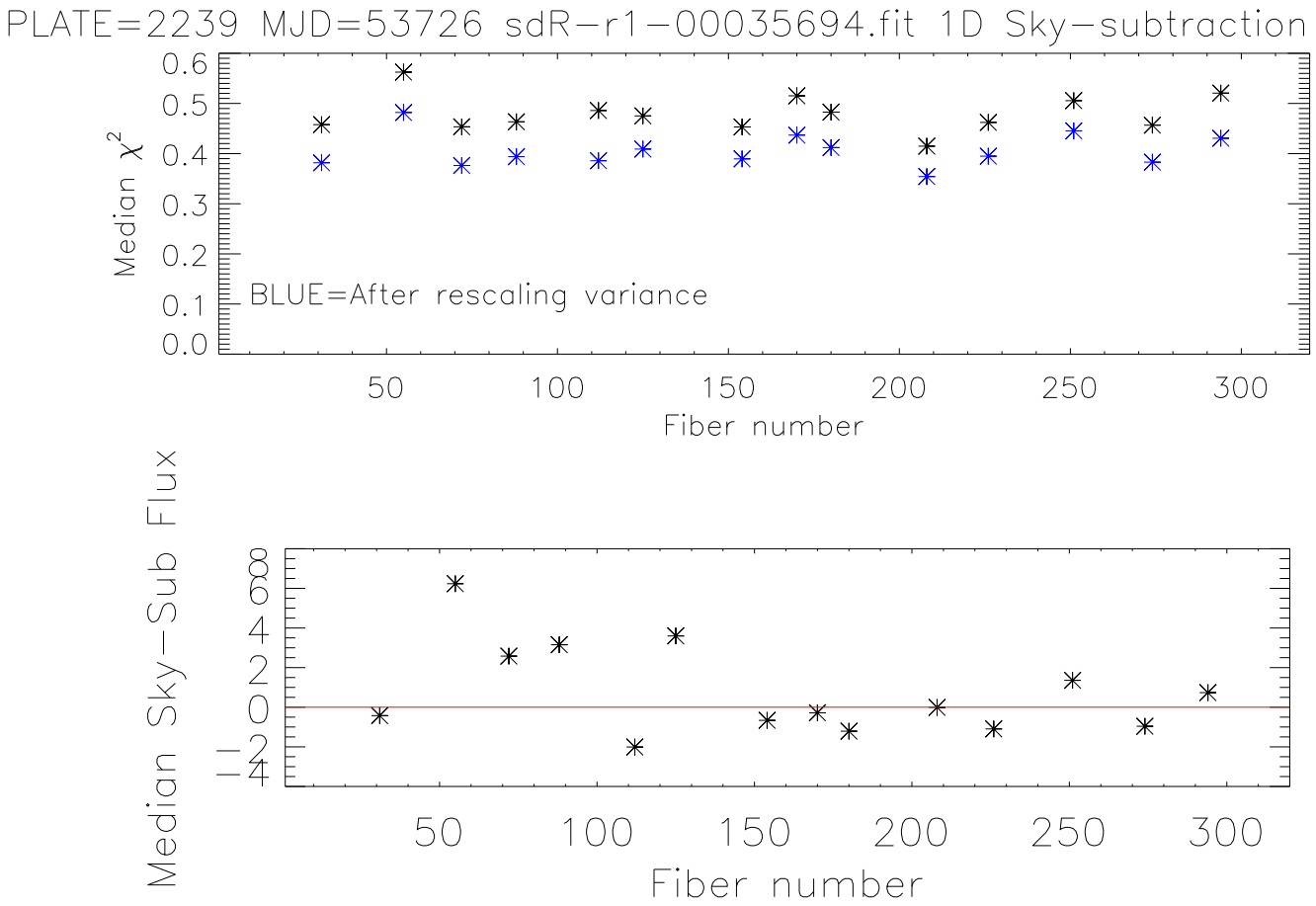

8919.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

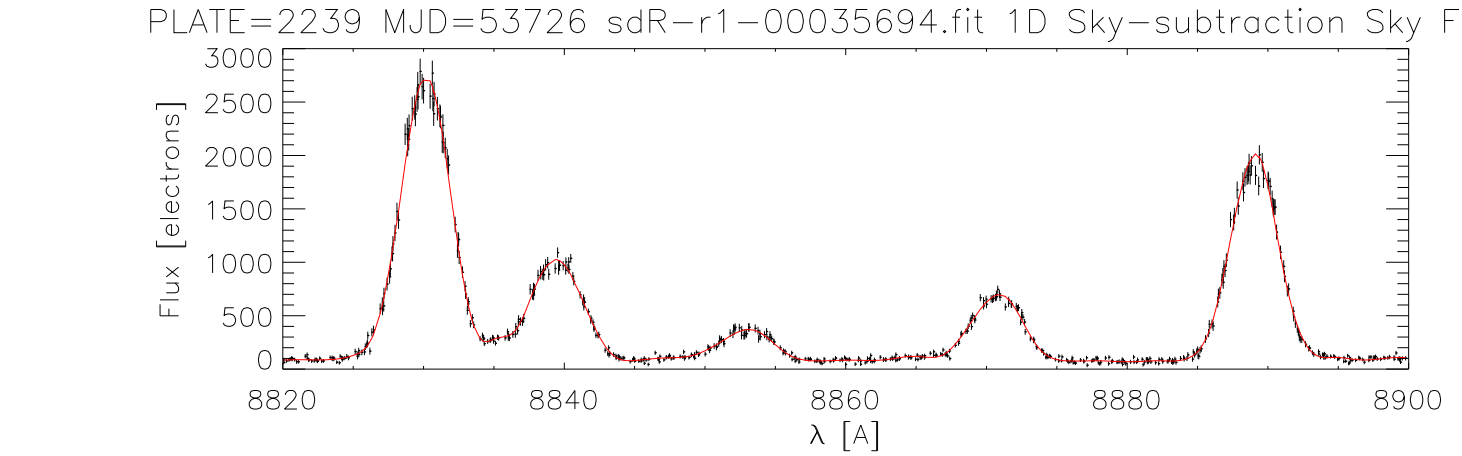

6300.3040
mfib1 16
mfib2 16
stdev 0.027
extra −0.48
6363.7760
mfib1 16
mfib2 16
stdev 0.024
extra −0.46
6553.6100
mfib1 16
mfib2 16
stdev 0.042
extra −0.53
6923.2100
mfib1 15
mfib2 16
stdev 0.034
extra −0.44
6949.0300
mfib1 14
mfib2 16
stdev 0.042
extra −0.59
7571.7500
mfib1 16
mfib2 16
stdev 0.042
extra −0.57
7794.1200
mfib1 16
mfib2 16
stdev 0.025
extra −0.45
7821.5100
mfib1 16
mfib2 16
stdev 0.027
extra −0.42
8399.1600
mfib1 16
mfib2 16
stdev 0.027
extra −0.58
8430.1700
mfib1 16
mfib2 16
stdev 0.028
extra −0.58
8885.8300
mfib1 16
mfib2 16
stdev 0.024
extra −0.55
8919.6100
mfib1 16
mfib2 16
stdev 0.030
extra −0.55
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

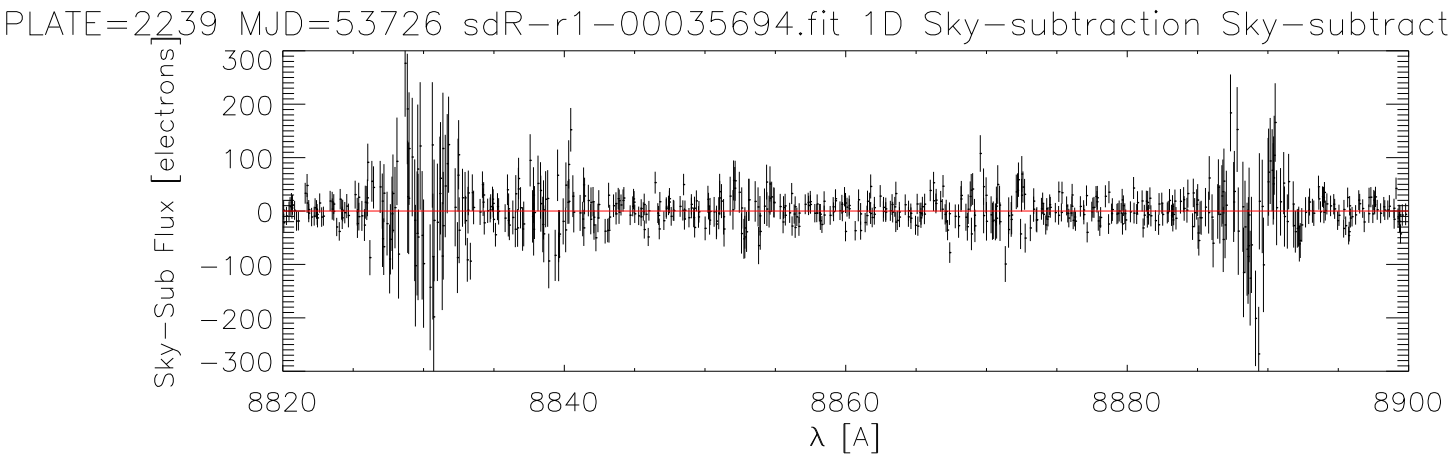

sky shift, pixels
−0.35
−0.40
−0.45
−0.50
−0.55
5000
6000
7000
8000
9000
10000

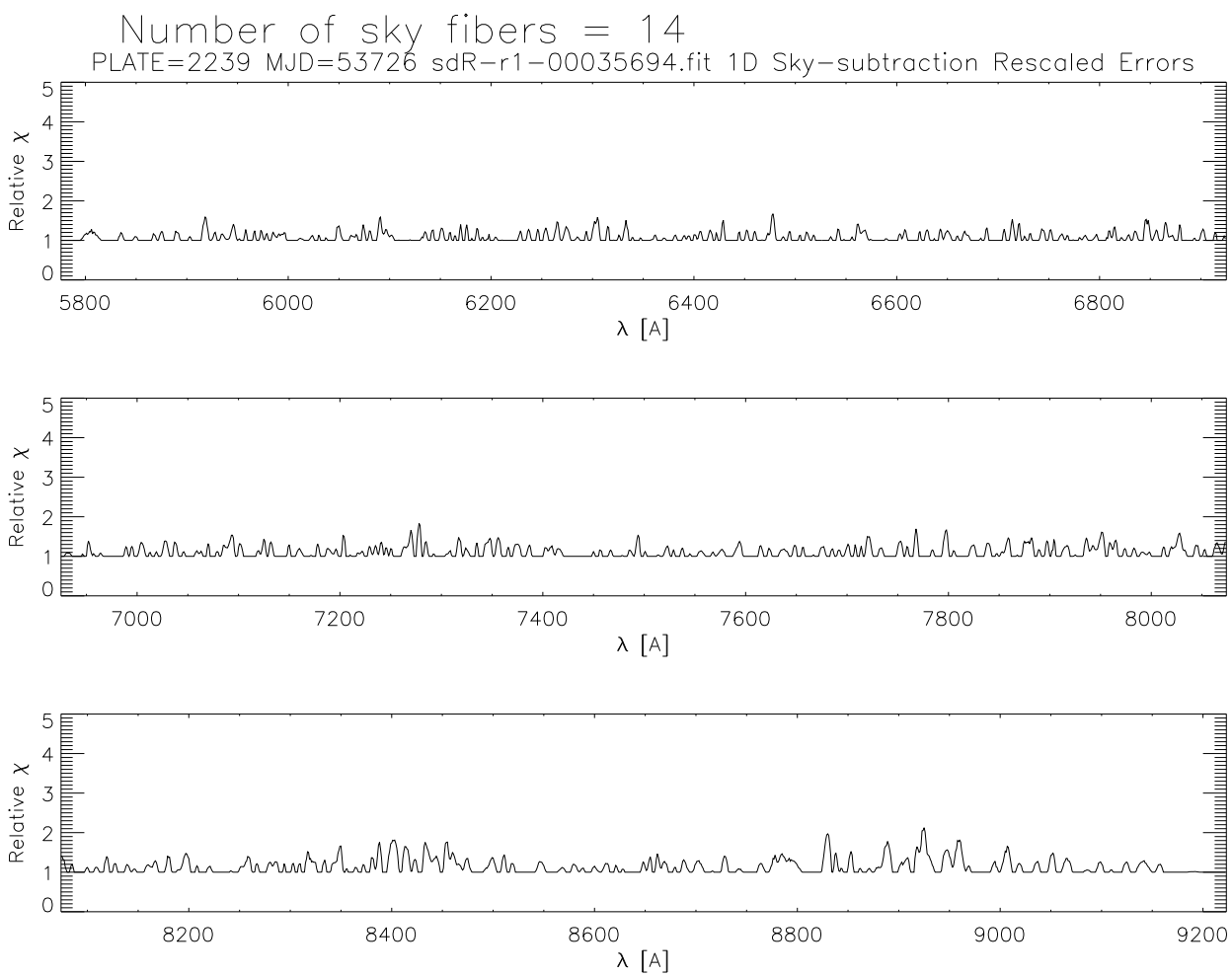

PLATE=2239 MJD=53726 Smooth superflat for sdR-r1-00035694.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

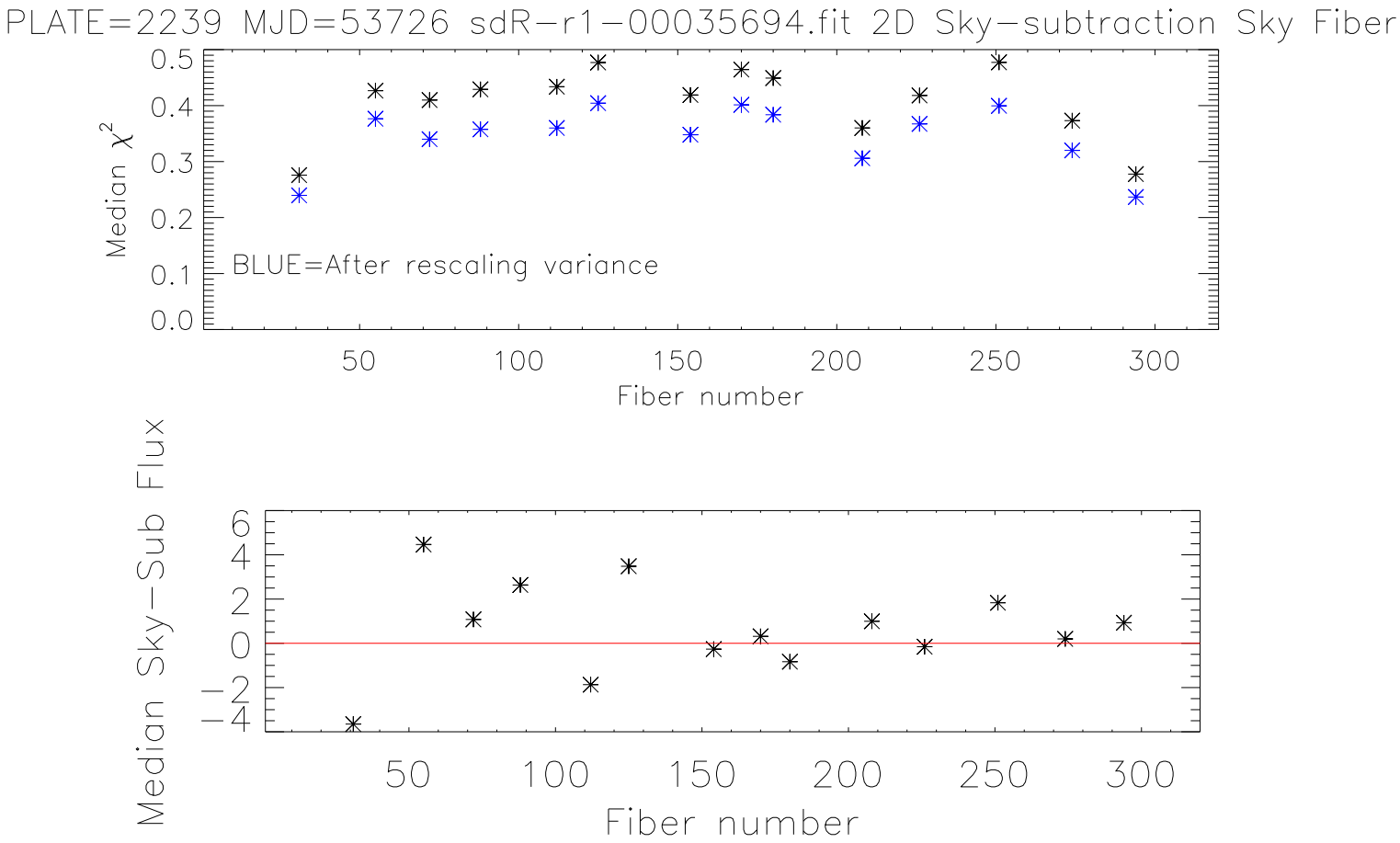
es= −0.0000

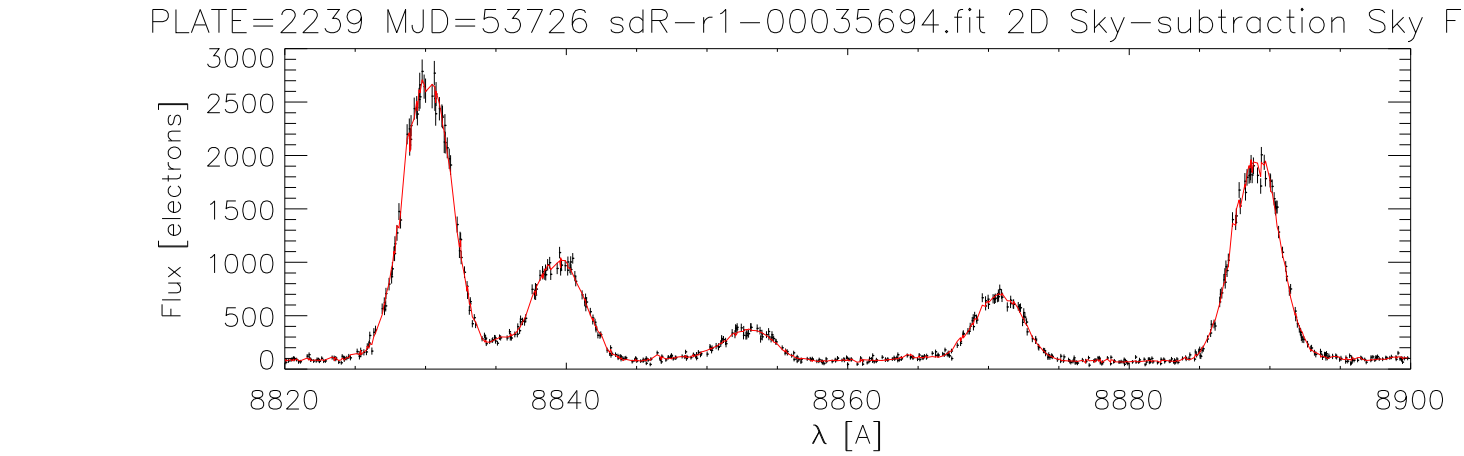

PLATE=2239 MJD=53726 sdR-r1-00035694.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

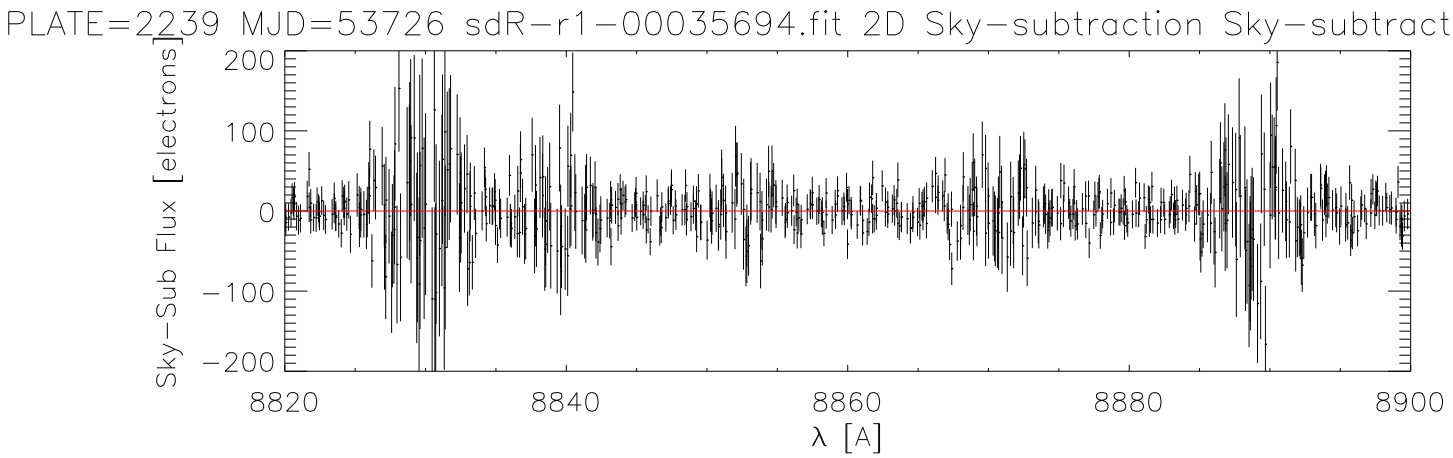

PLATE=2239 MJD=53726 sdR-r1-00035694.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

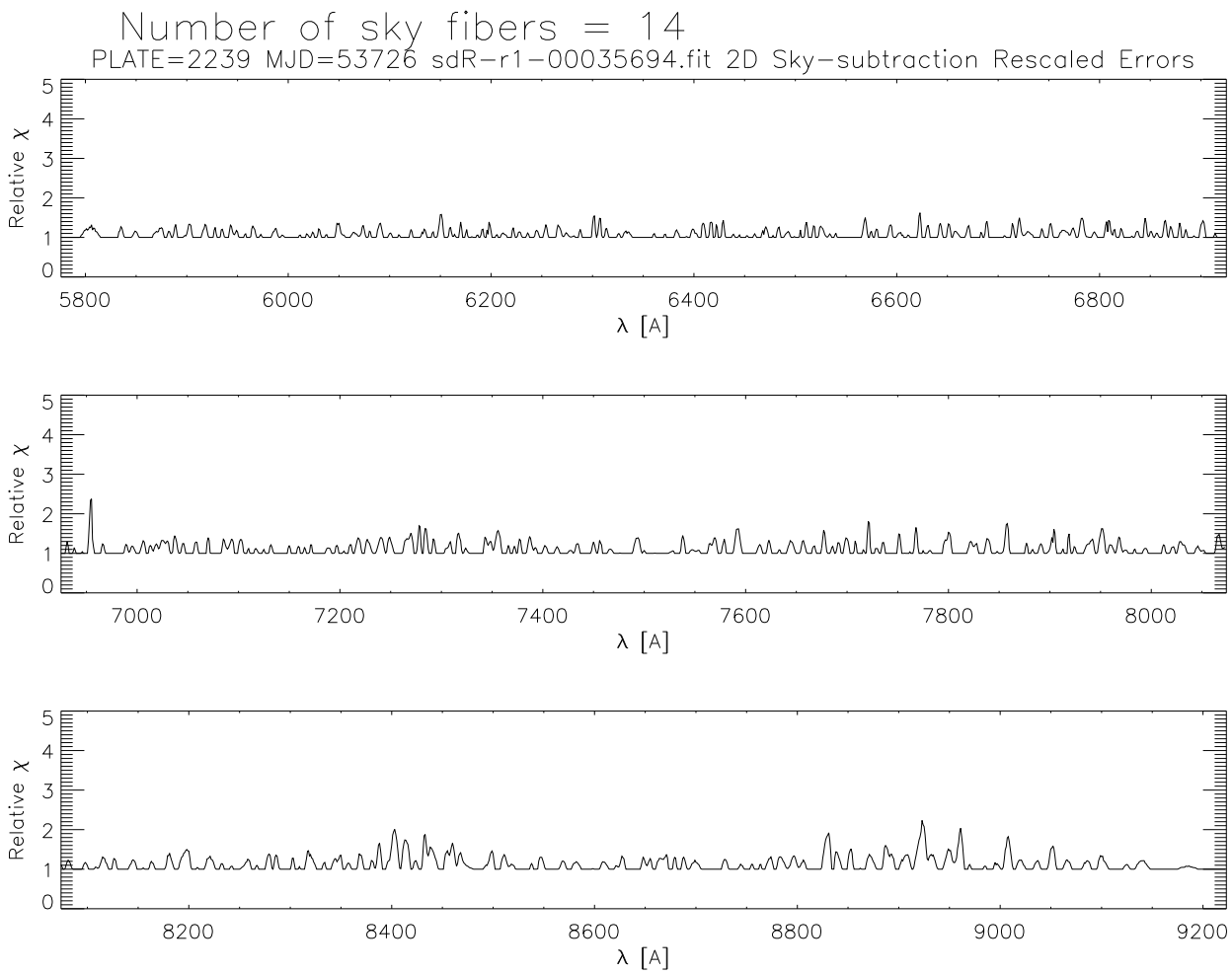

PLATE=2239 MJD=53726 sdR-r1-00035694.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

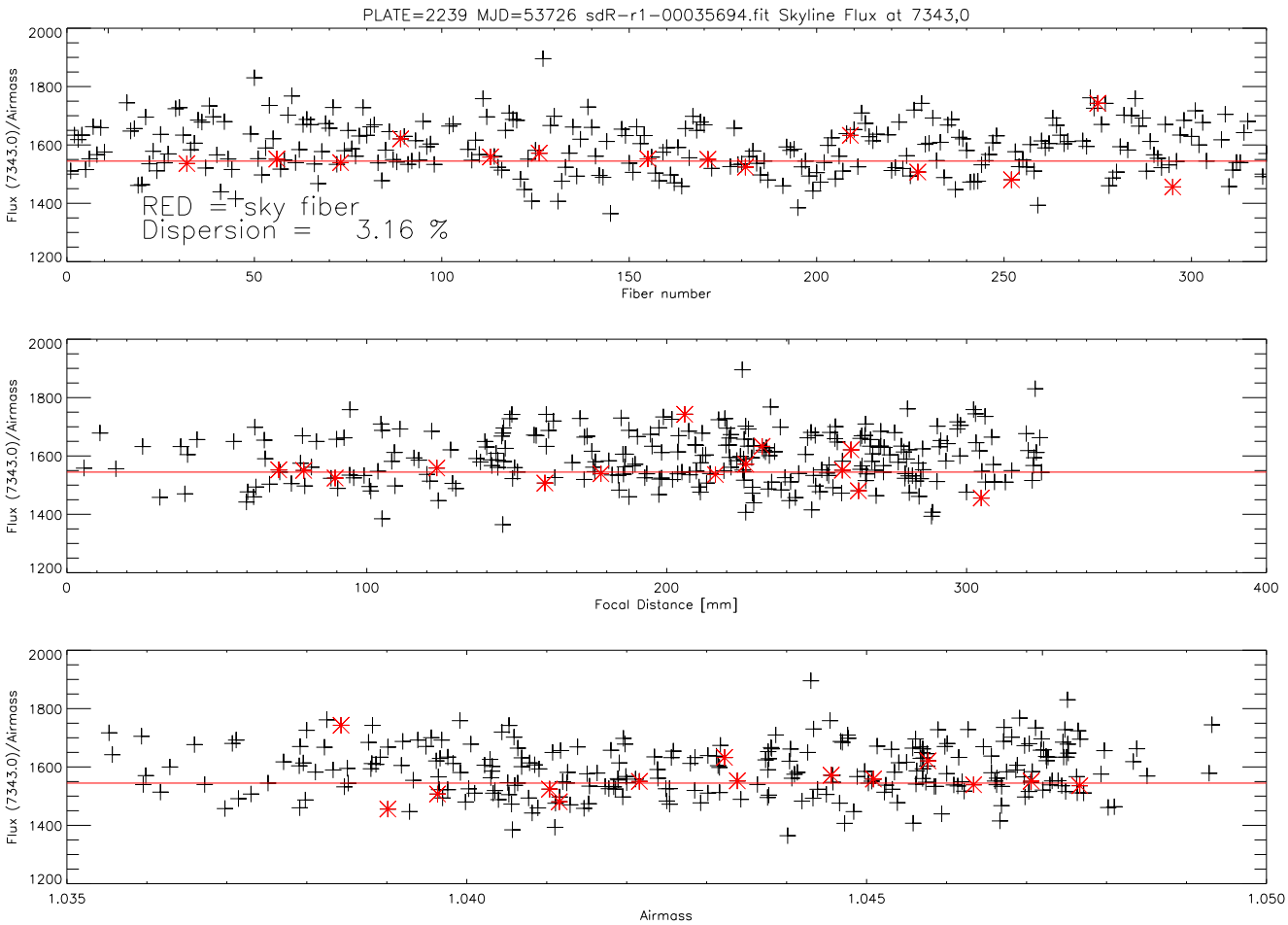

Number of sky fibers = 14
PLATE=2239 MJD=53726 sdR-r1-00035694.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

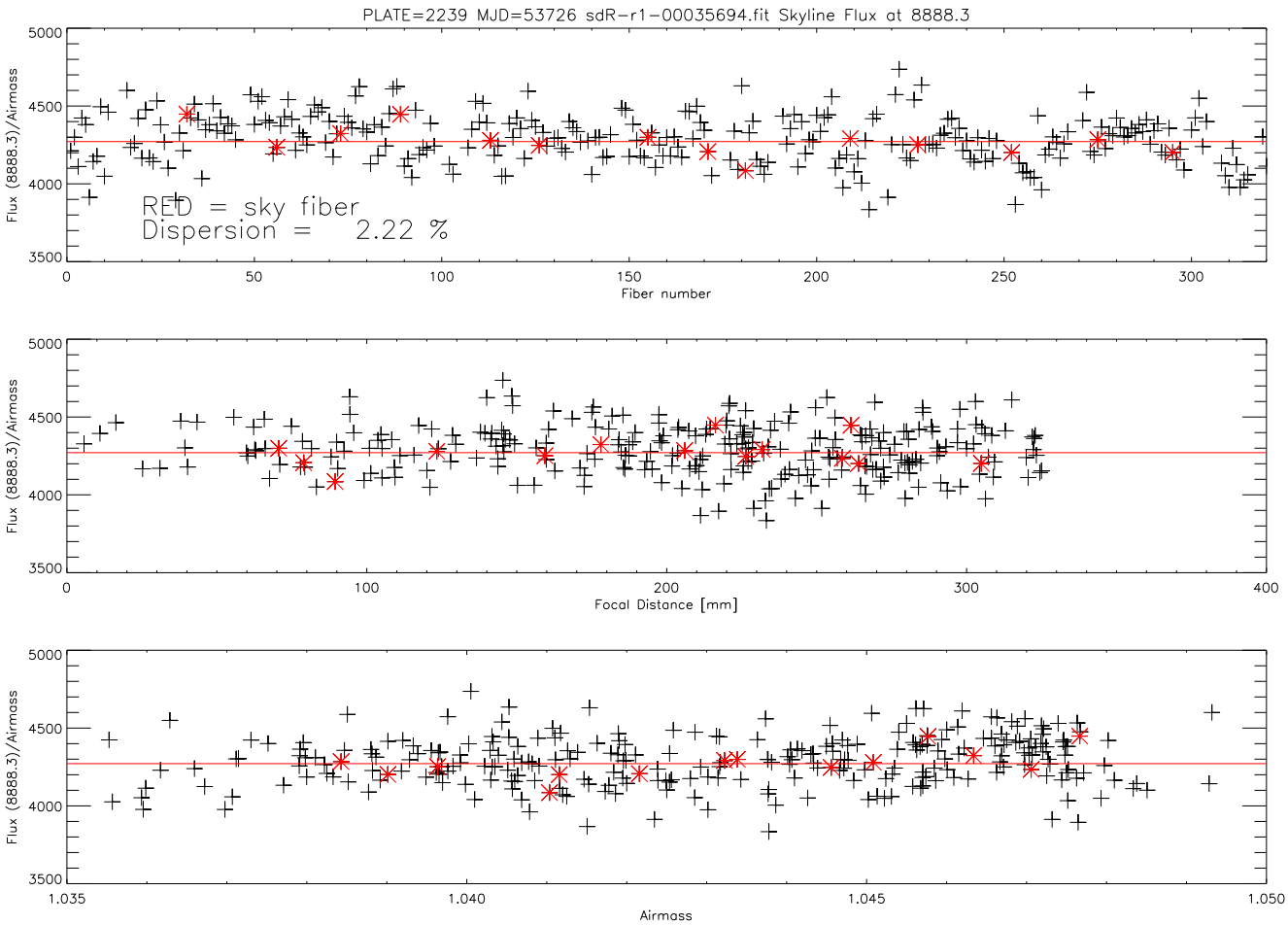

PLATE=2239 MJD=53726 sdR-r1-00035694.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

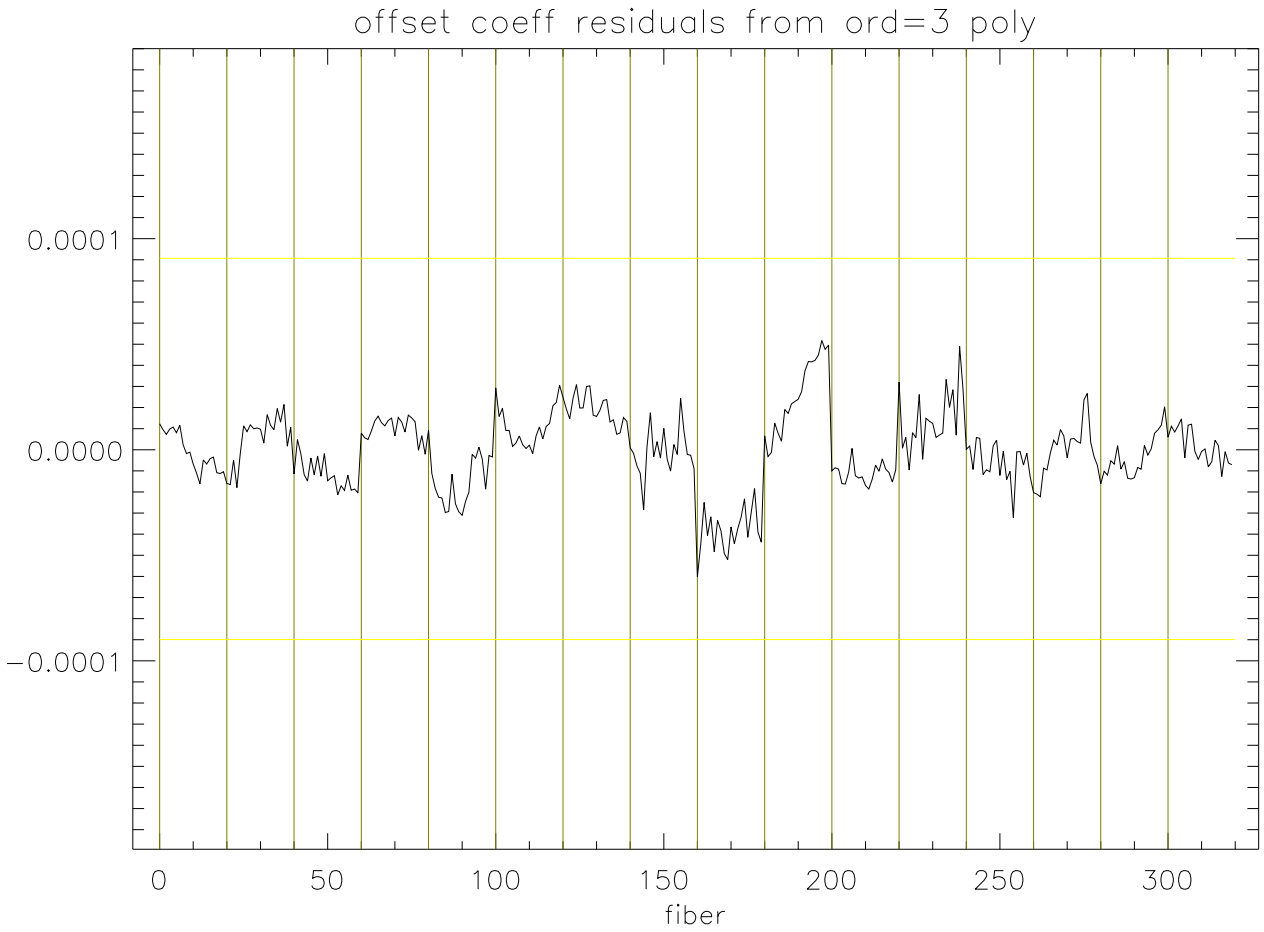

PLATE=2239 MJD=53726 sdR-r1-00035694.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

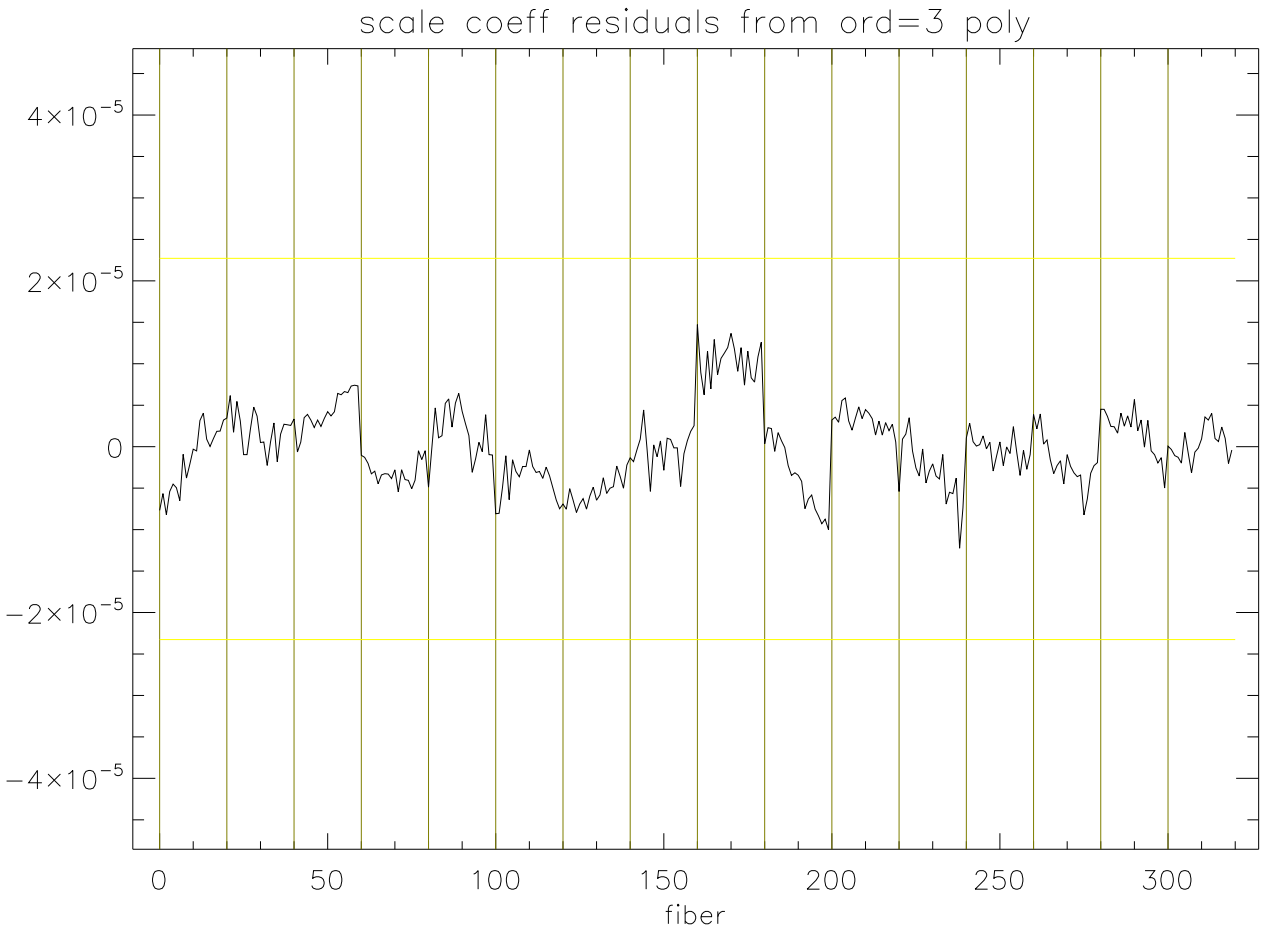

PLATE=2239 MJD=53726 sdR-r1-00035694.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

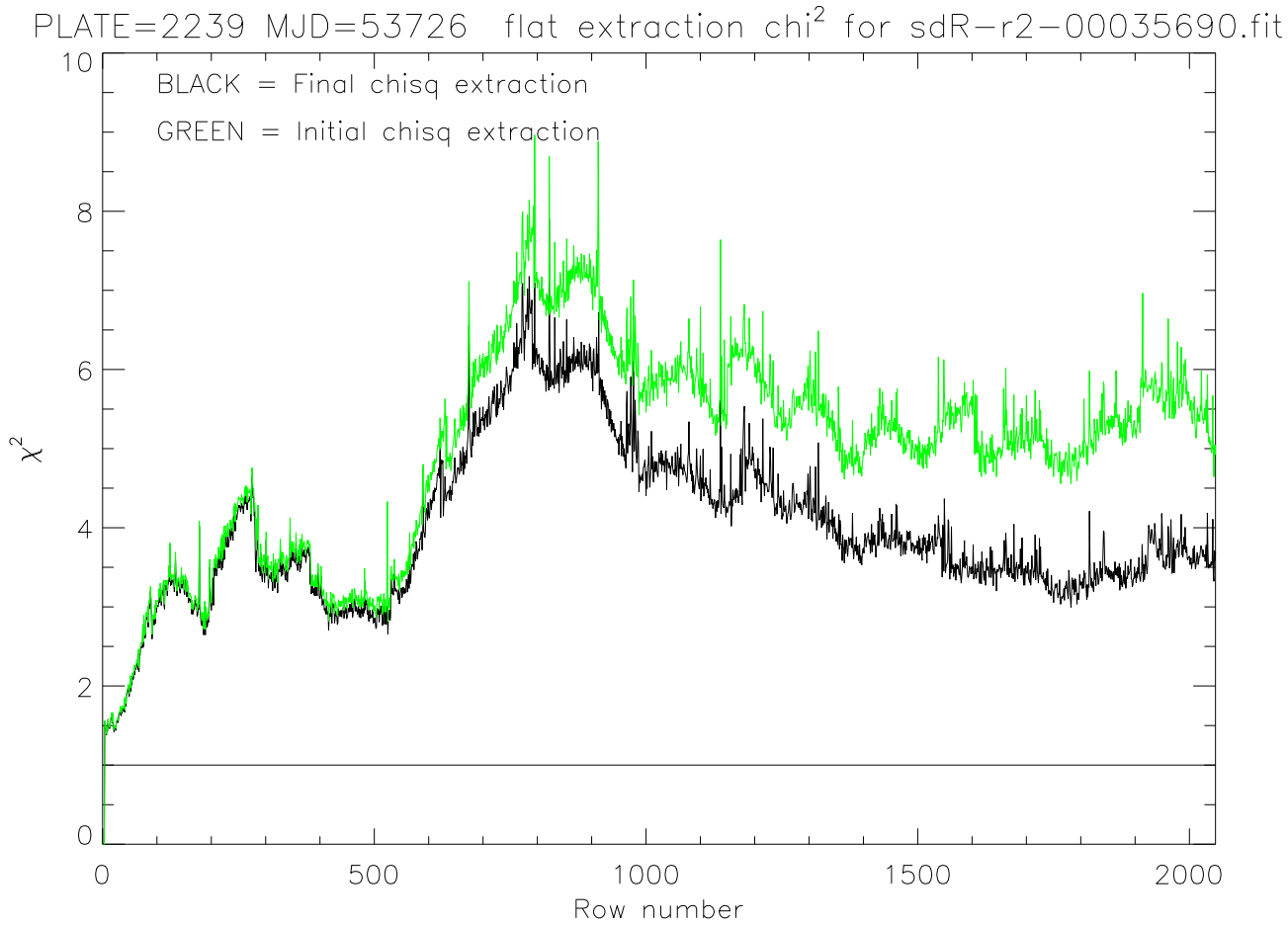

Number of sky fibers = 14
PLATE=2239 MJD=53726 sdR-r1-00035694.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

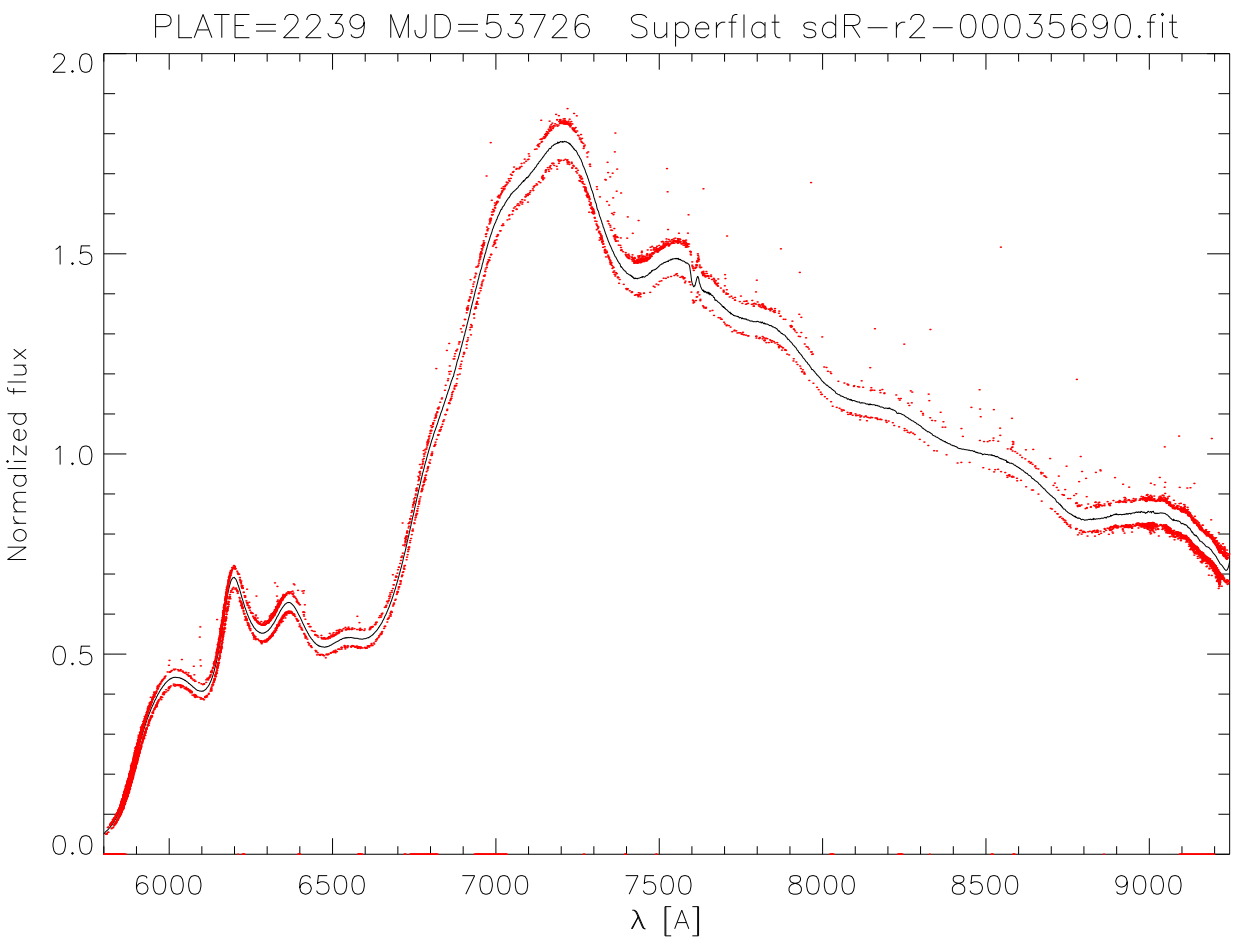

PLATE=2239 MJD=53726 sdR-r1-00035694.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.16 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

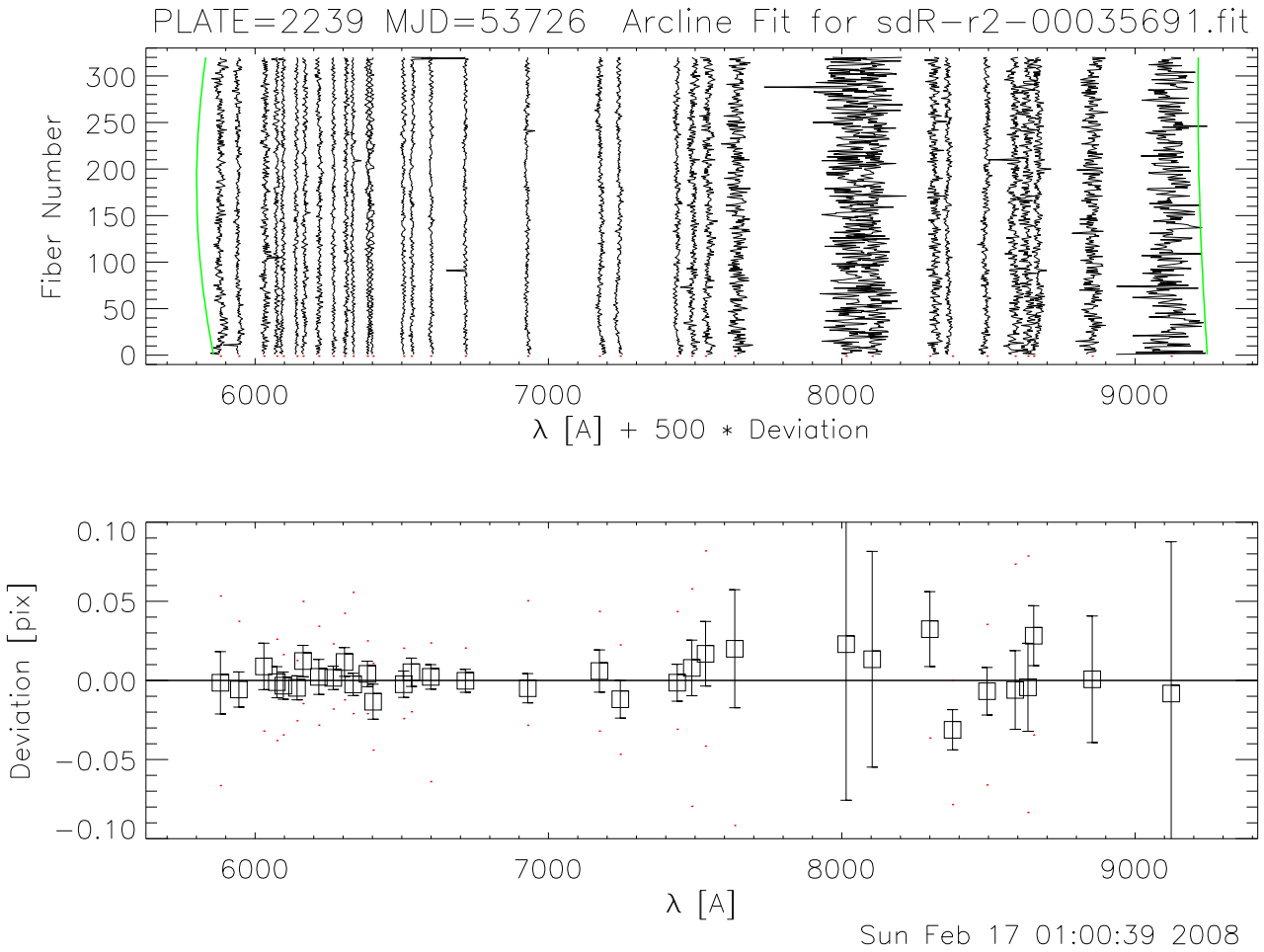

PLATE=2239 MJD=53726 sdR-r1-00035694.fit Skyline Flux at 8888.3
RED = sky fiber
Dispersion = 2.22 %
Flux (8888.3)/Airmass
Fiber number
Focal Distance [mm]
Airmass

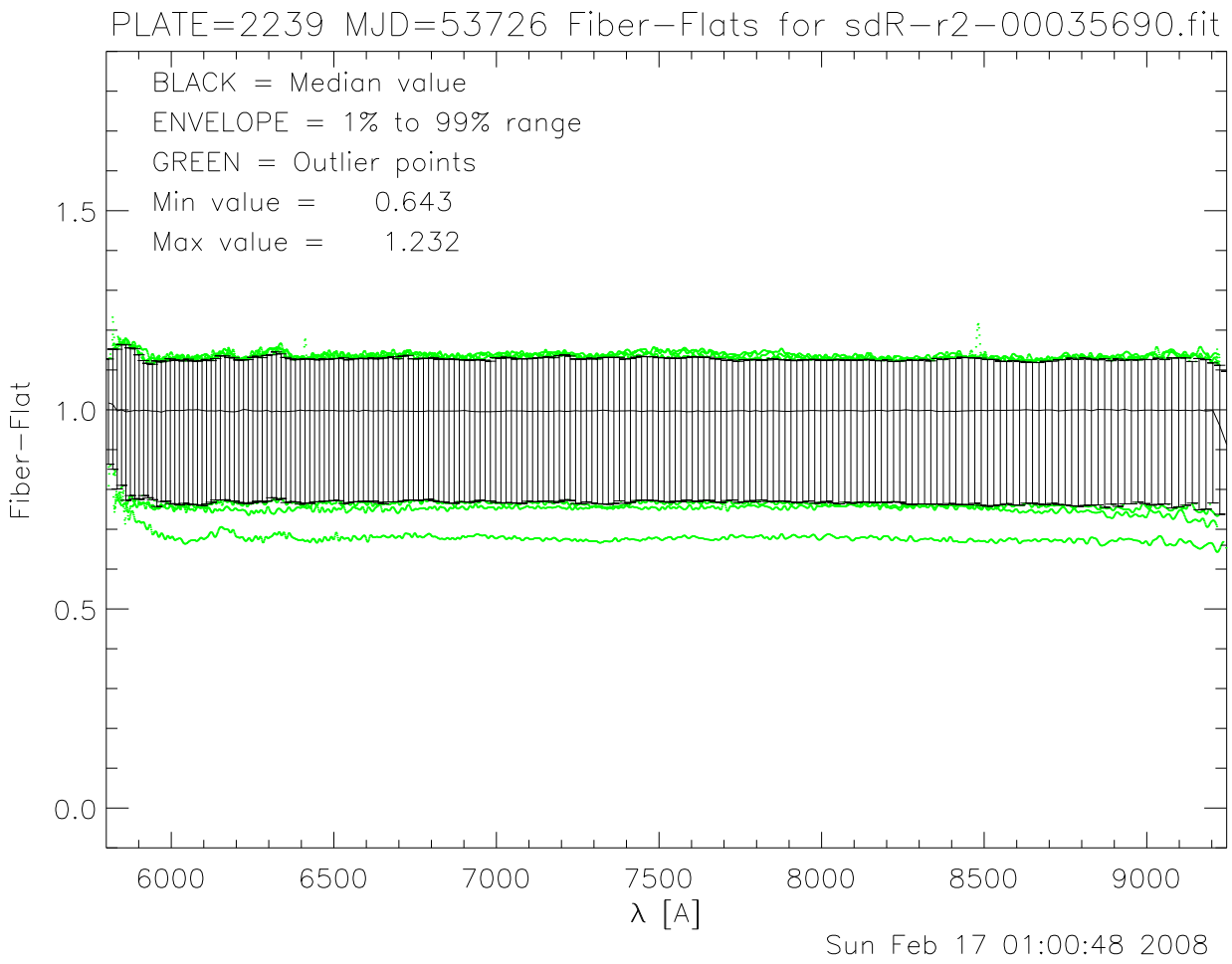

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

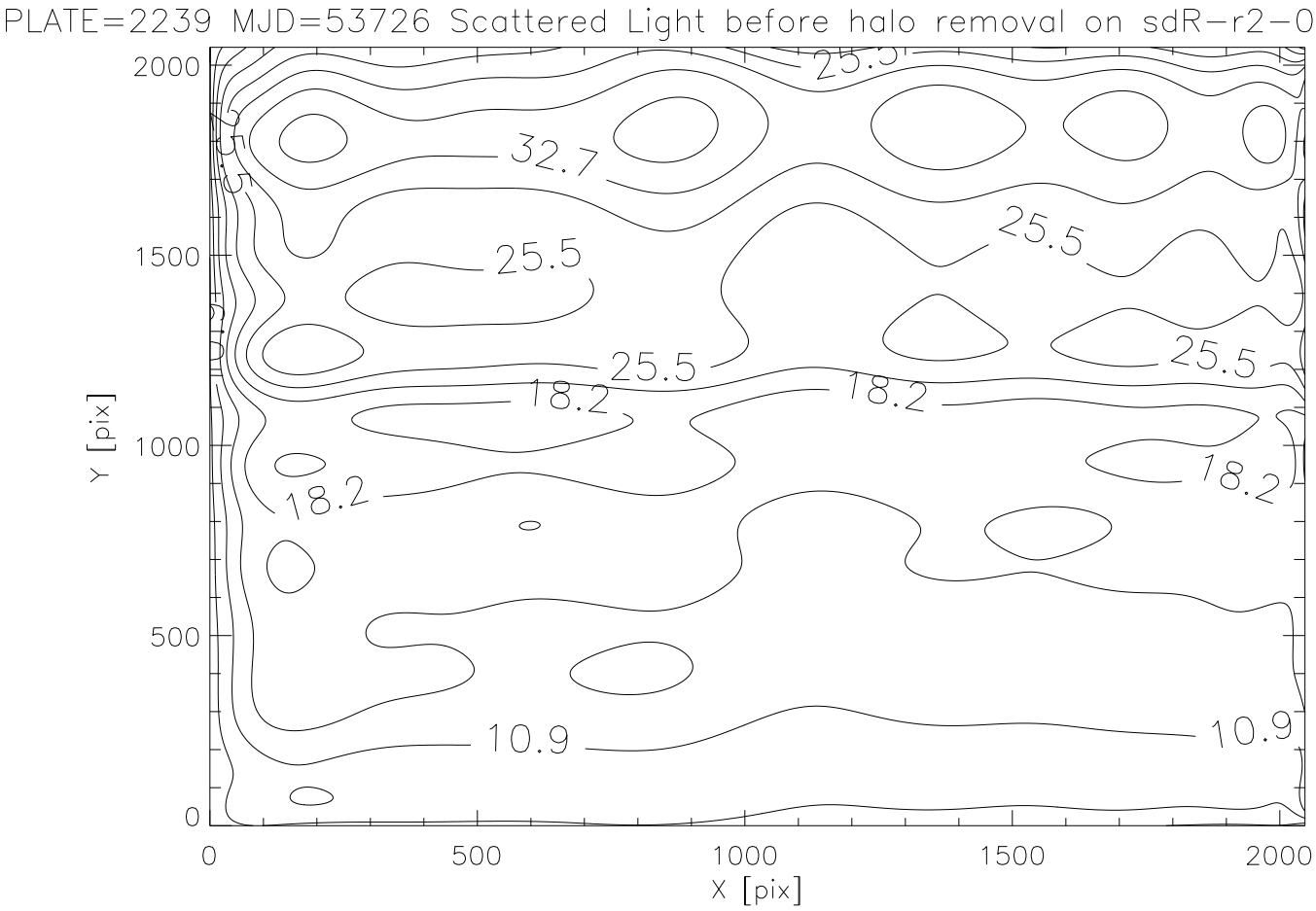

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

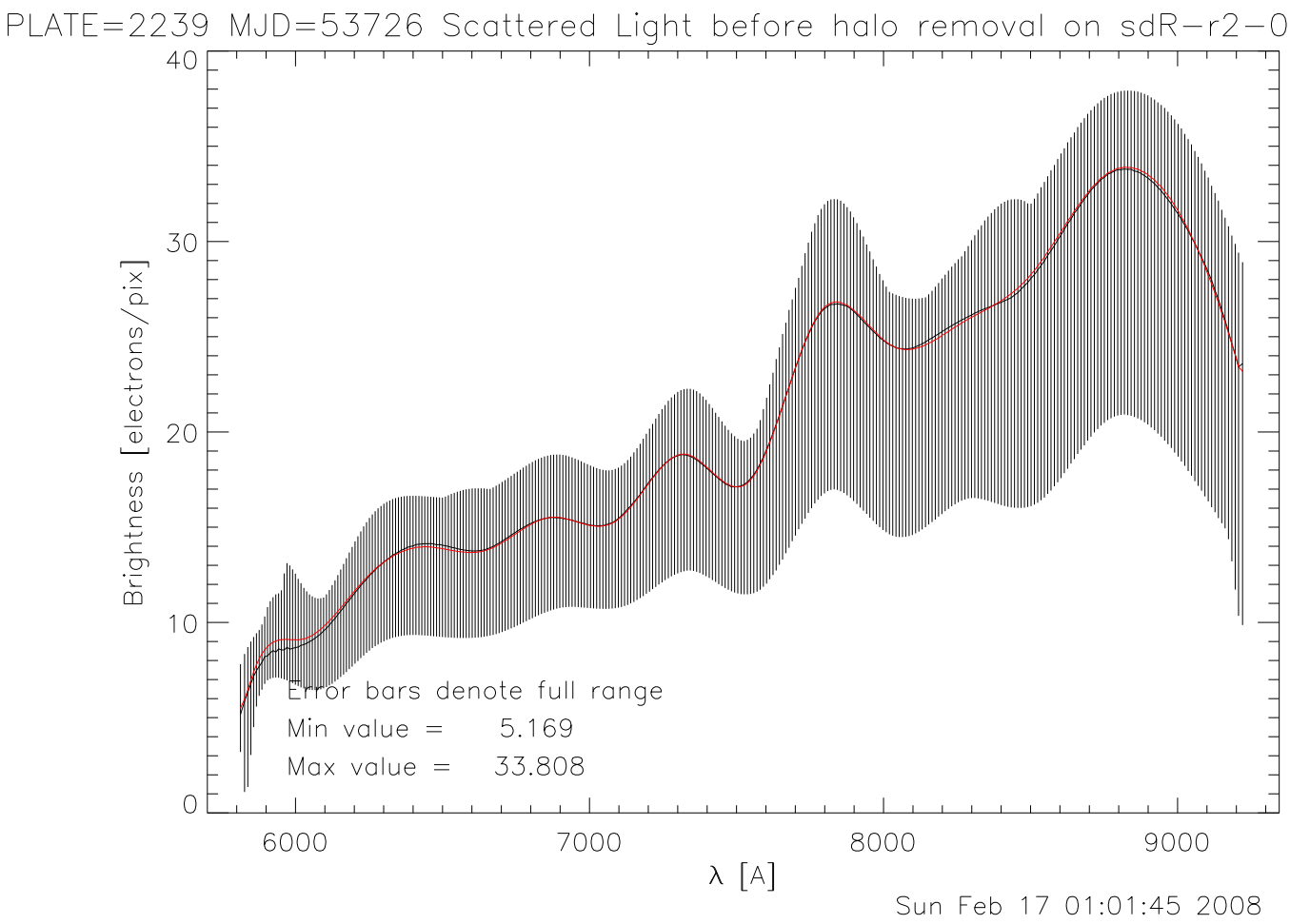

PLATE=2239 MJD=53726 flat extraction chi^2 for sdR−r2−00035690.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

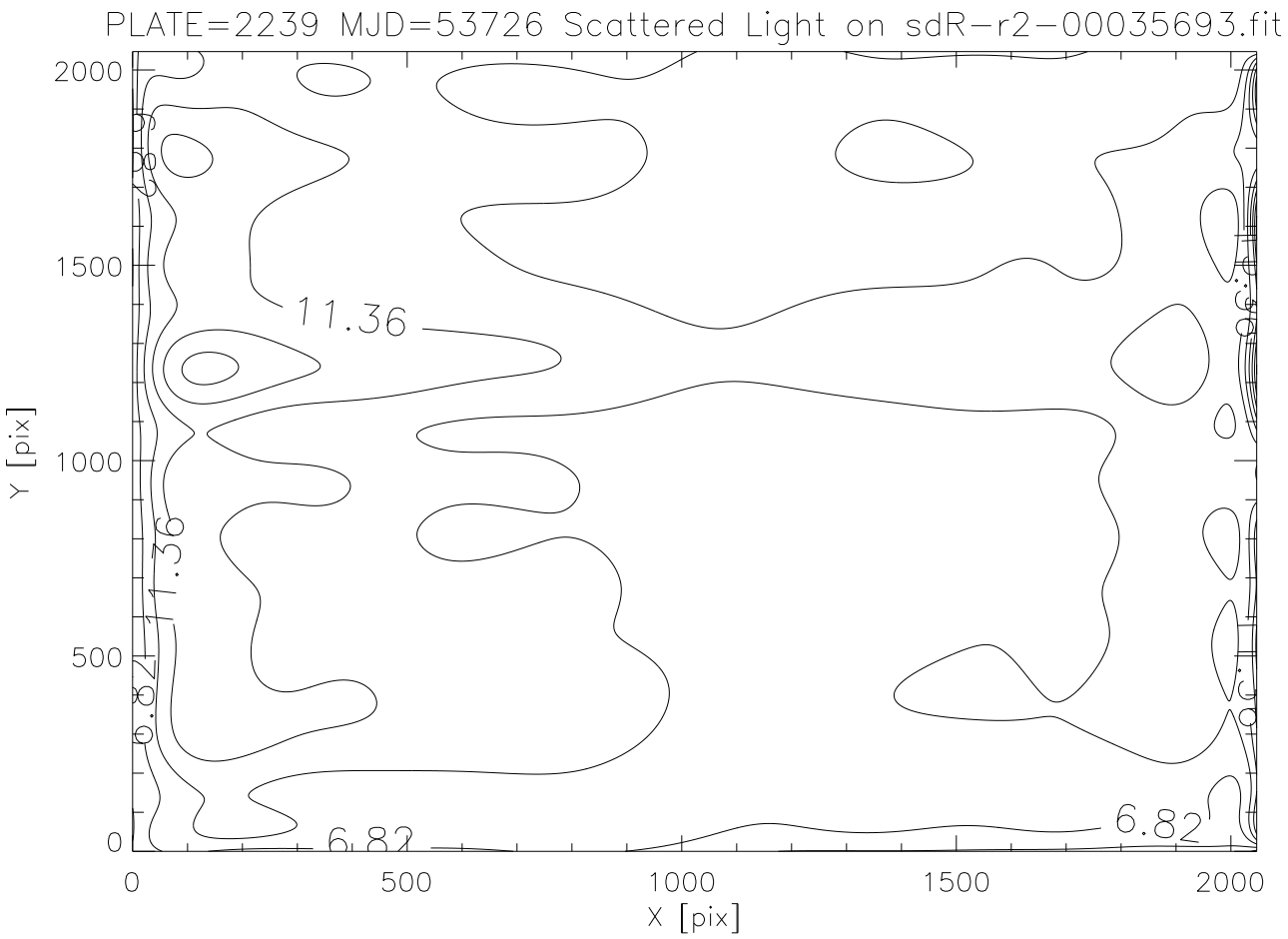

PLATE=2239 MJD=53726 Superflat sdR-r2-00035690.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

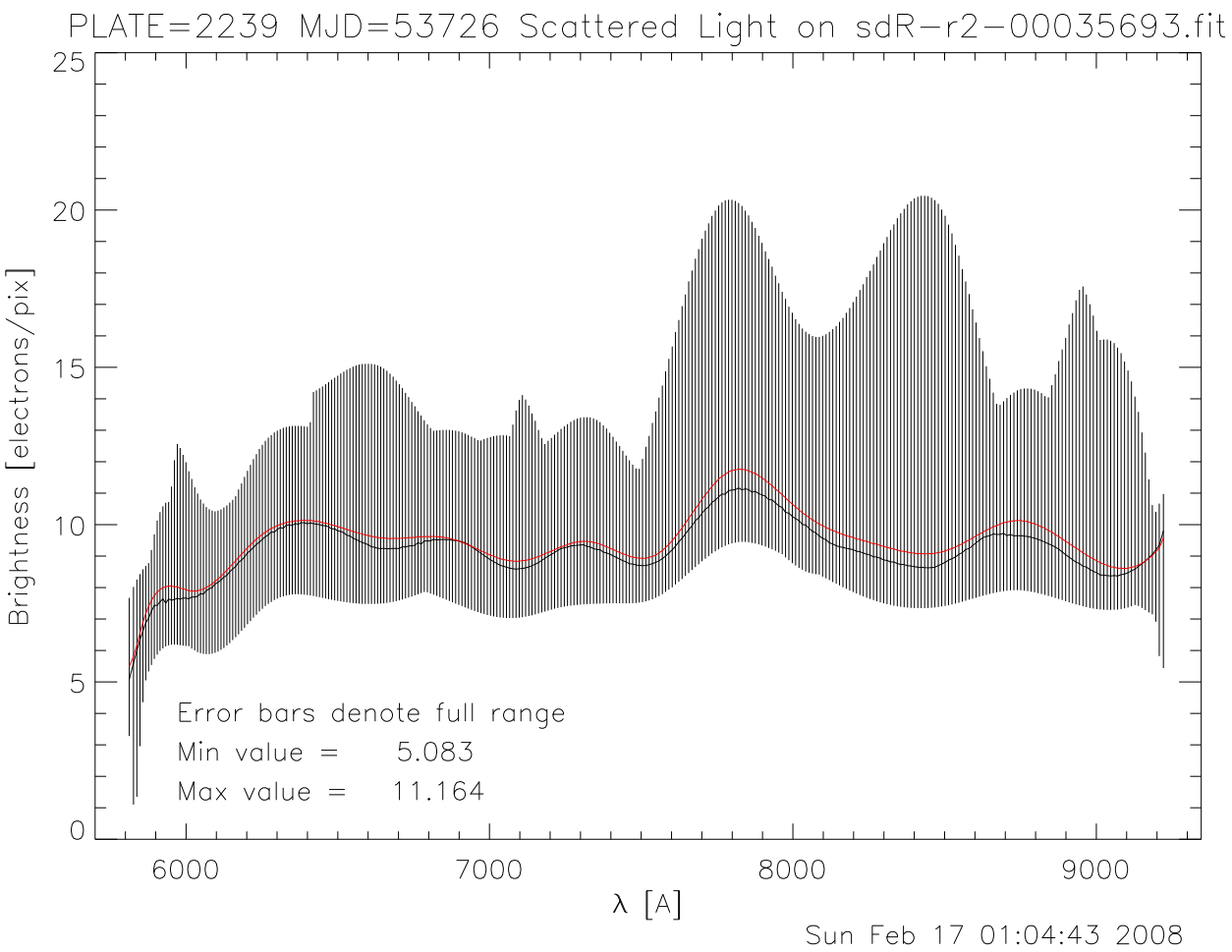

PLATE=2239 MJD=53726 Arcline Fit for sdR-r2-00035691.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sun Feb 17 01:00:39 2008

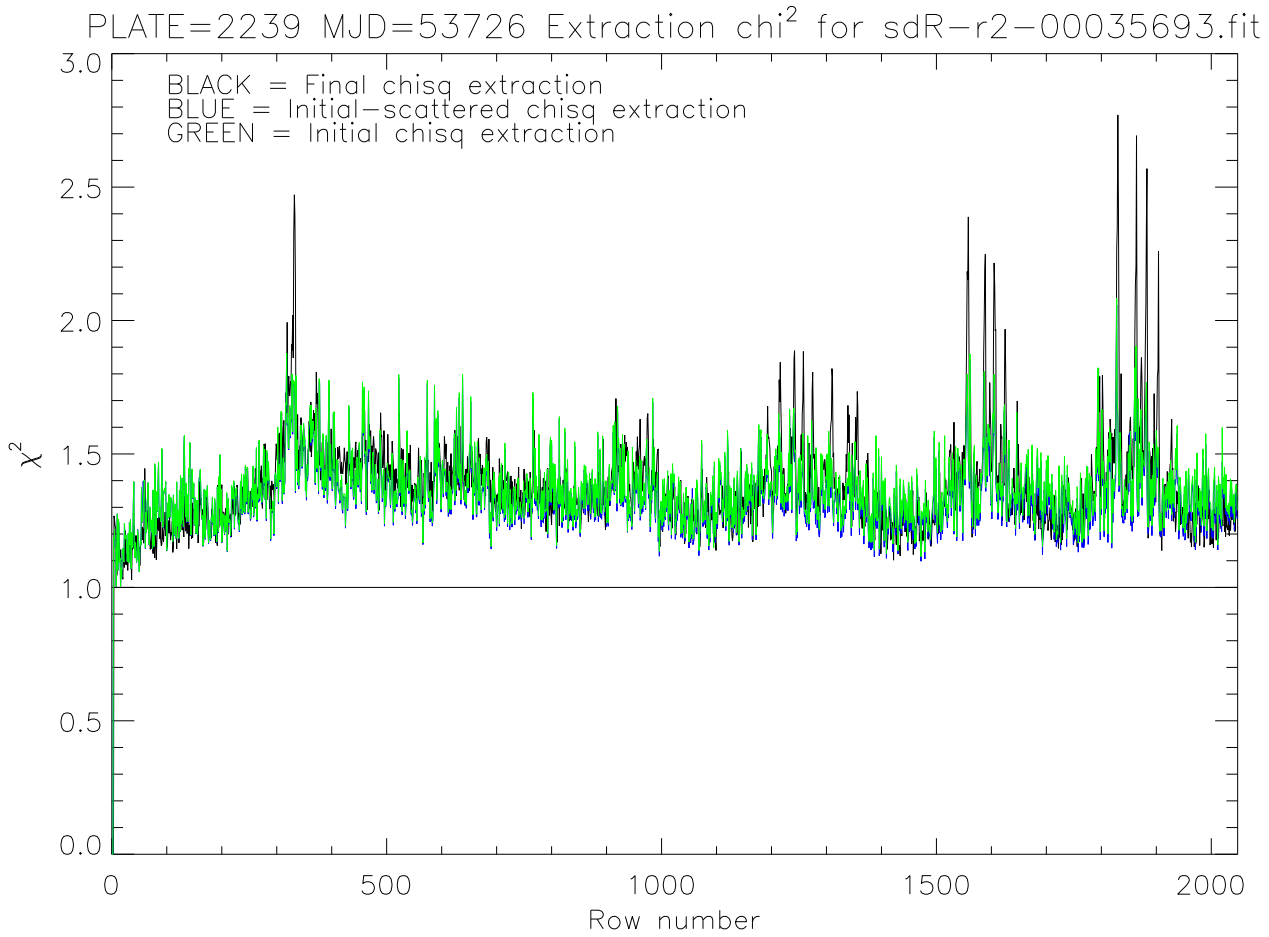

PLATE=2239 MJD=53726 Fiber−Flats for sdR−r2−00035690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.643
Max value = 1.232
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 17 01:00:48 2008

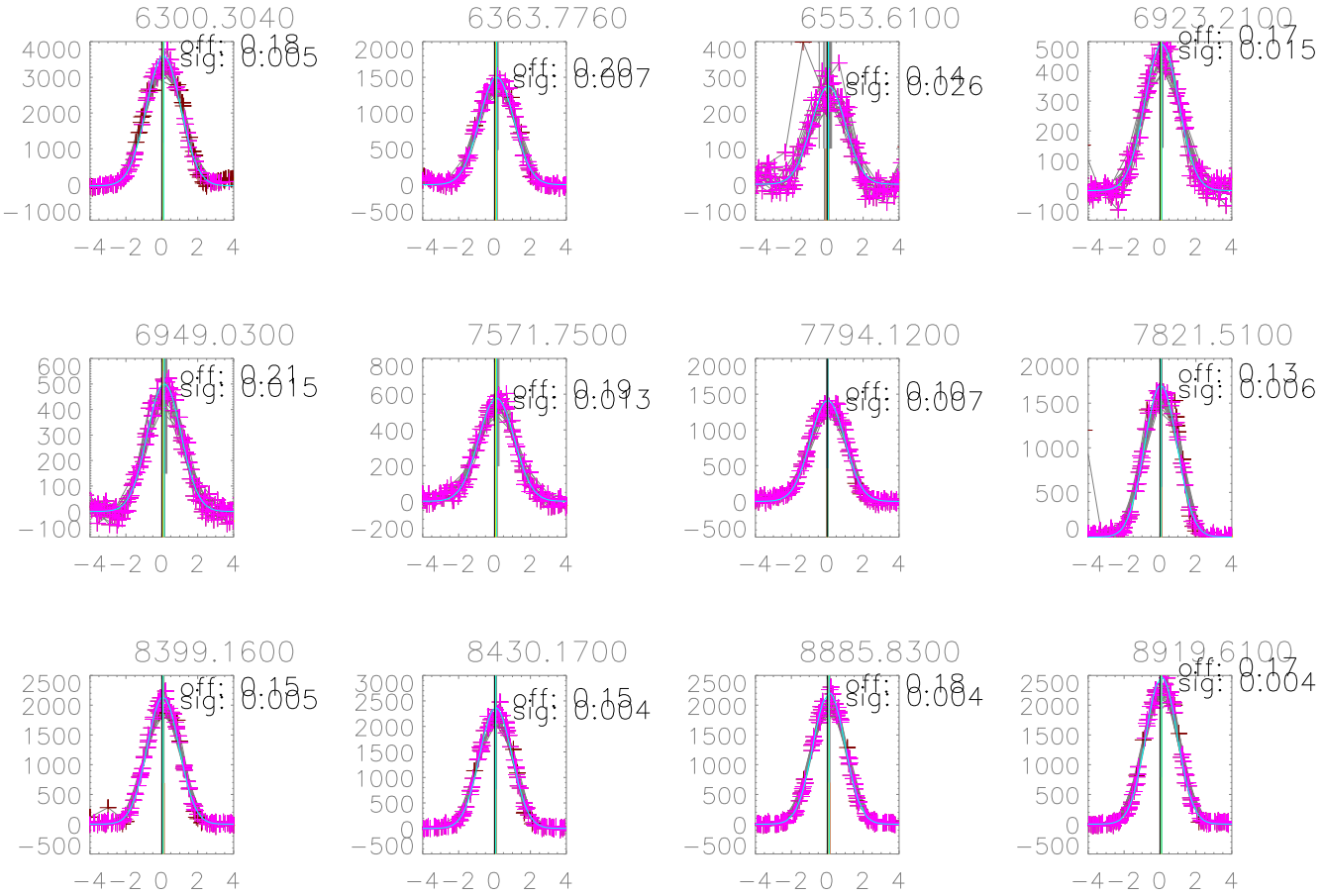

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR-r2-00035693.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
32.7
25.5
25.5
25.5
25.5
18.2
18.2
18.2
18.2
10.9
10.9

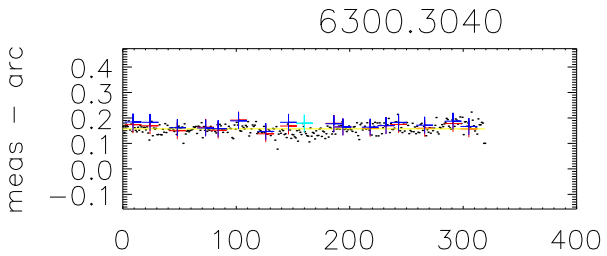

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR-r2-00035693.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.169
Max value = 33.808
Sun Feb 17 01:01:45 2008

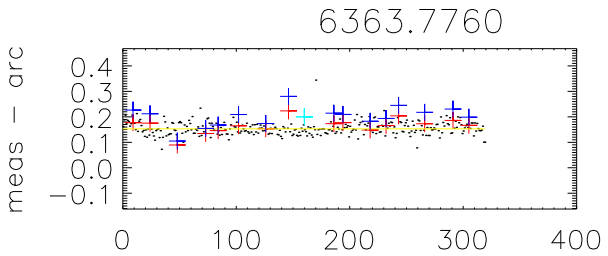

PLATE=2239 MJD=53726 Scattered Light on sdR-r2-00035693.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
11.36
6.82

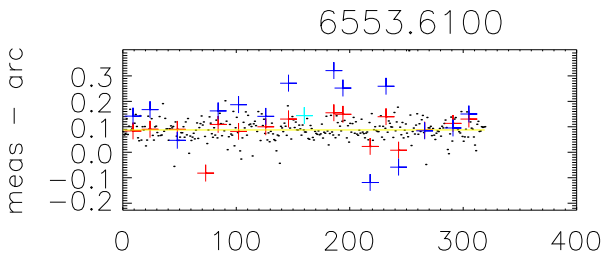

PLATE=2239 MJD=53726 Scattered Light on sdR-r2-00035693.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.083
Max value = 11.164
Sun Feb 17 01:04:43 2008

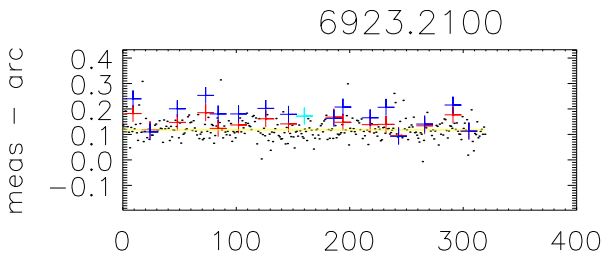

PLATE=2239 MJD=53726 Extraction chi^2 for sdR−r2−00035693.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

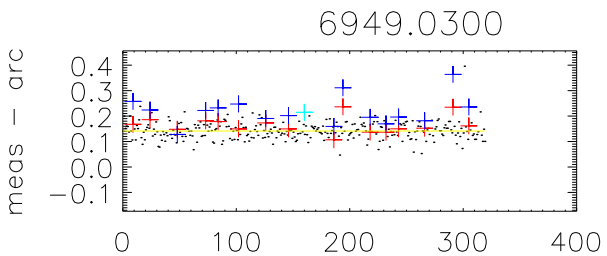

6300.3040
off: 0.18
sig: 0.005
6363.7760
off: 0.20
sig: 0.007
6553.6100
off: 0.14
sig: 0.026
6923.2100
off: 0.17
sig: 0.015
6949.0300
off: 0.21
sig: 0.015
7571.7500
off: 0.19
sig: 0.013
7794.1200
off: 0.10
sig: 0.007
7821.5100
off: 0.13
sig: 0.006
8399.1600
off: 0.15
sig: 0.005
8430.1700
off: 0.15
sig: 0.004
8885.8300
off: 0.18
sig: 0.004
8919.6100
off: 0.17
sig: 0.004

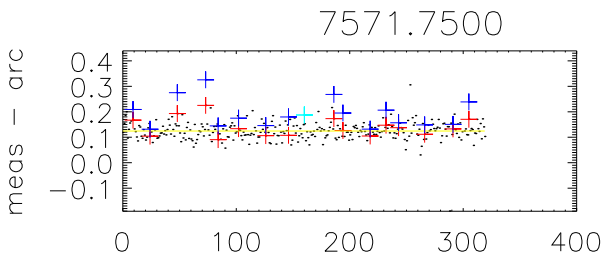

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

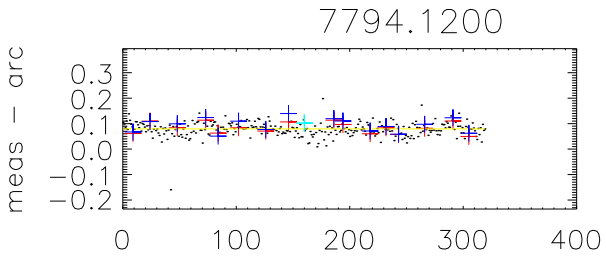

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

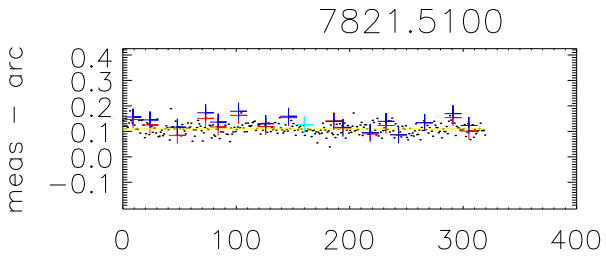

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

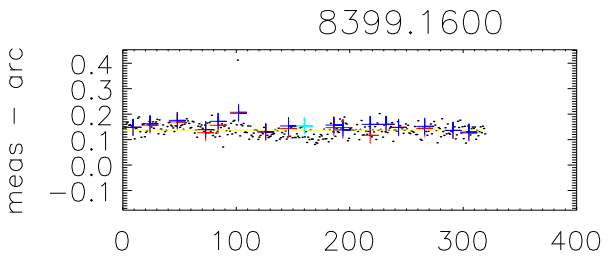

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

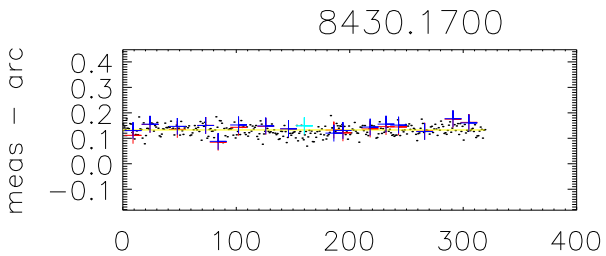

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

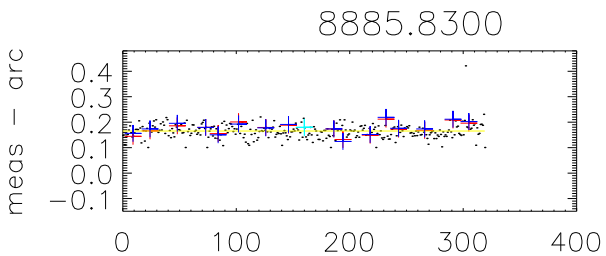

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

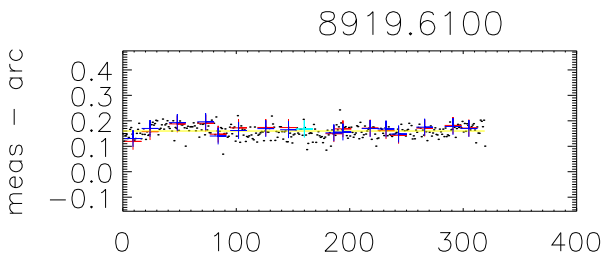

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

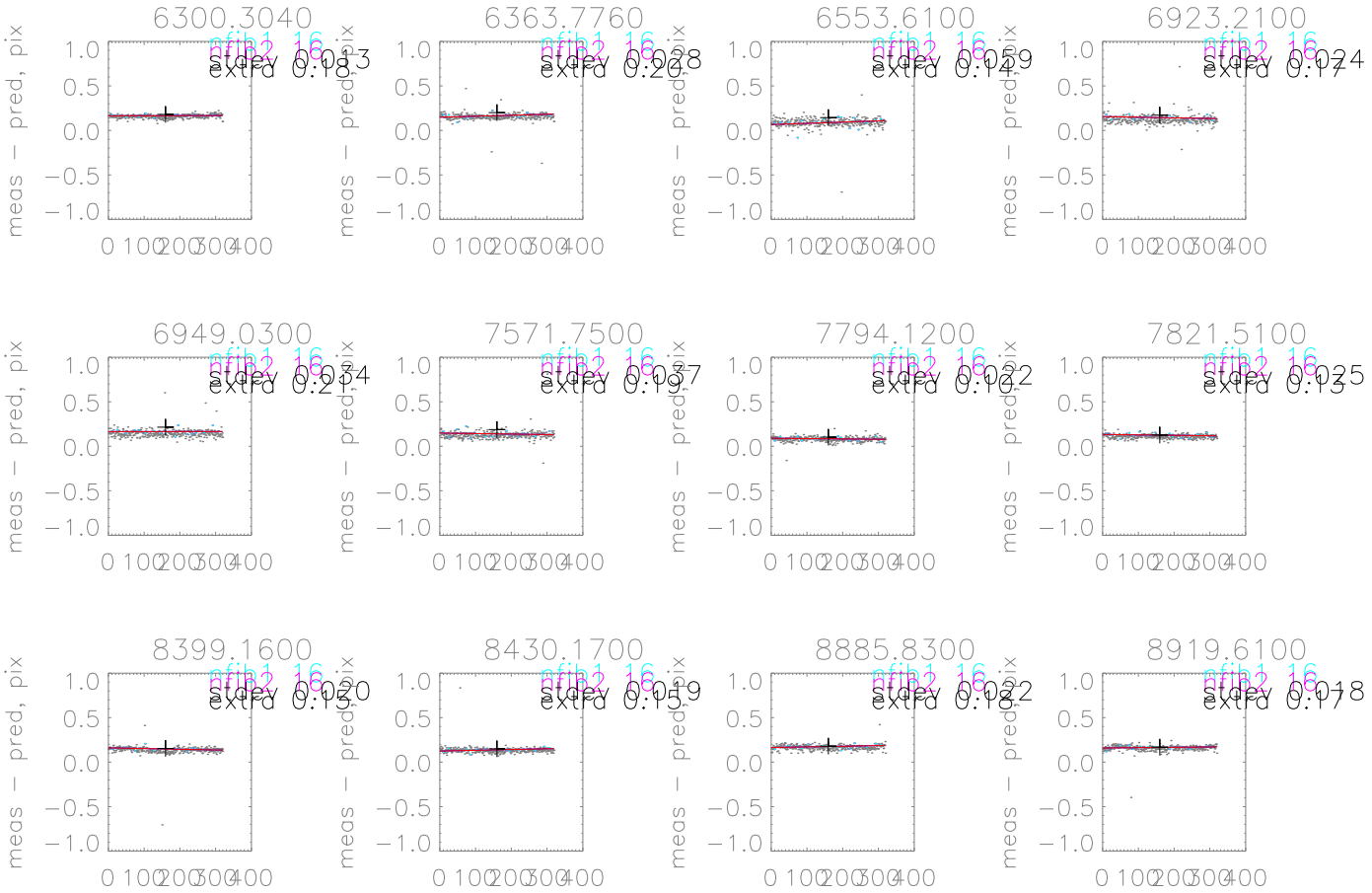

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

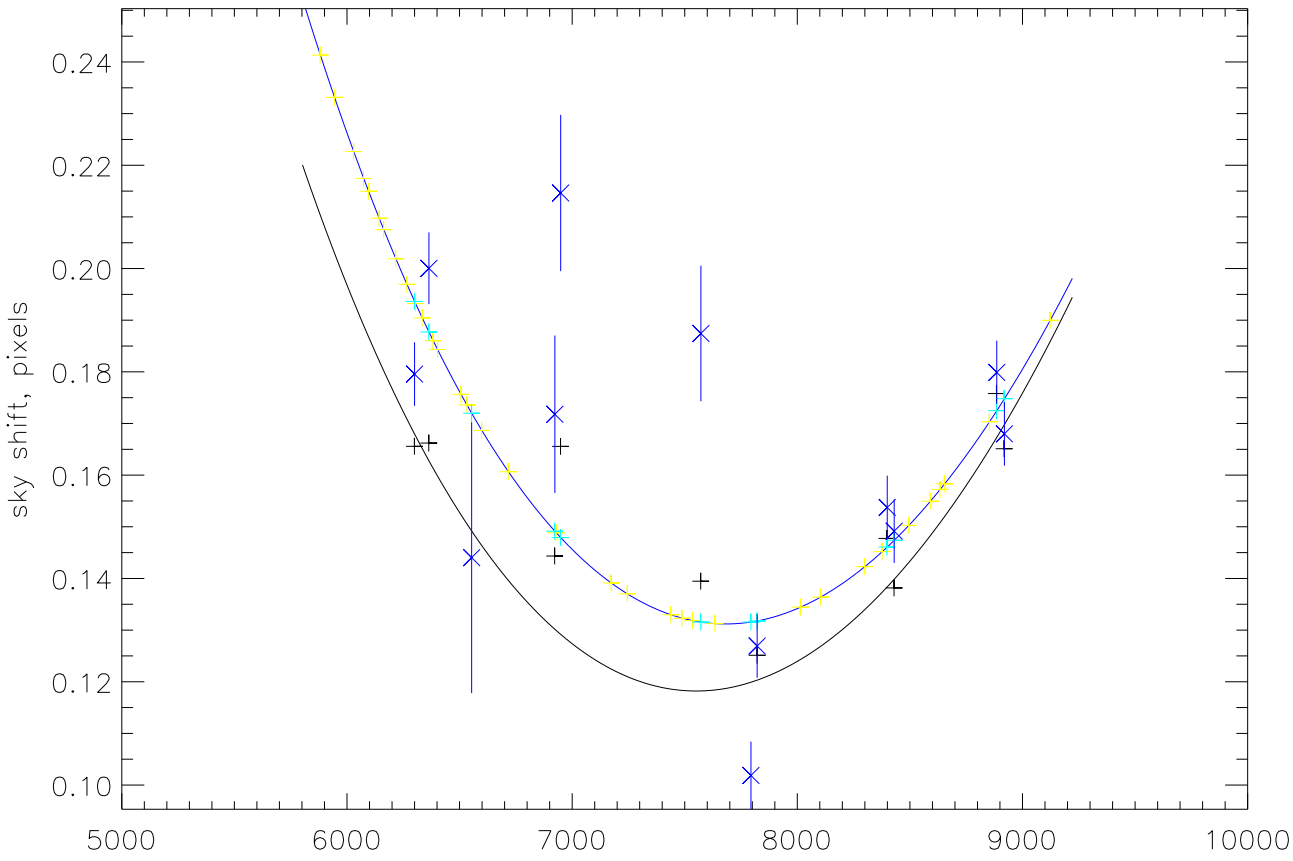

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

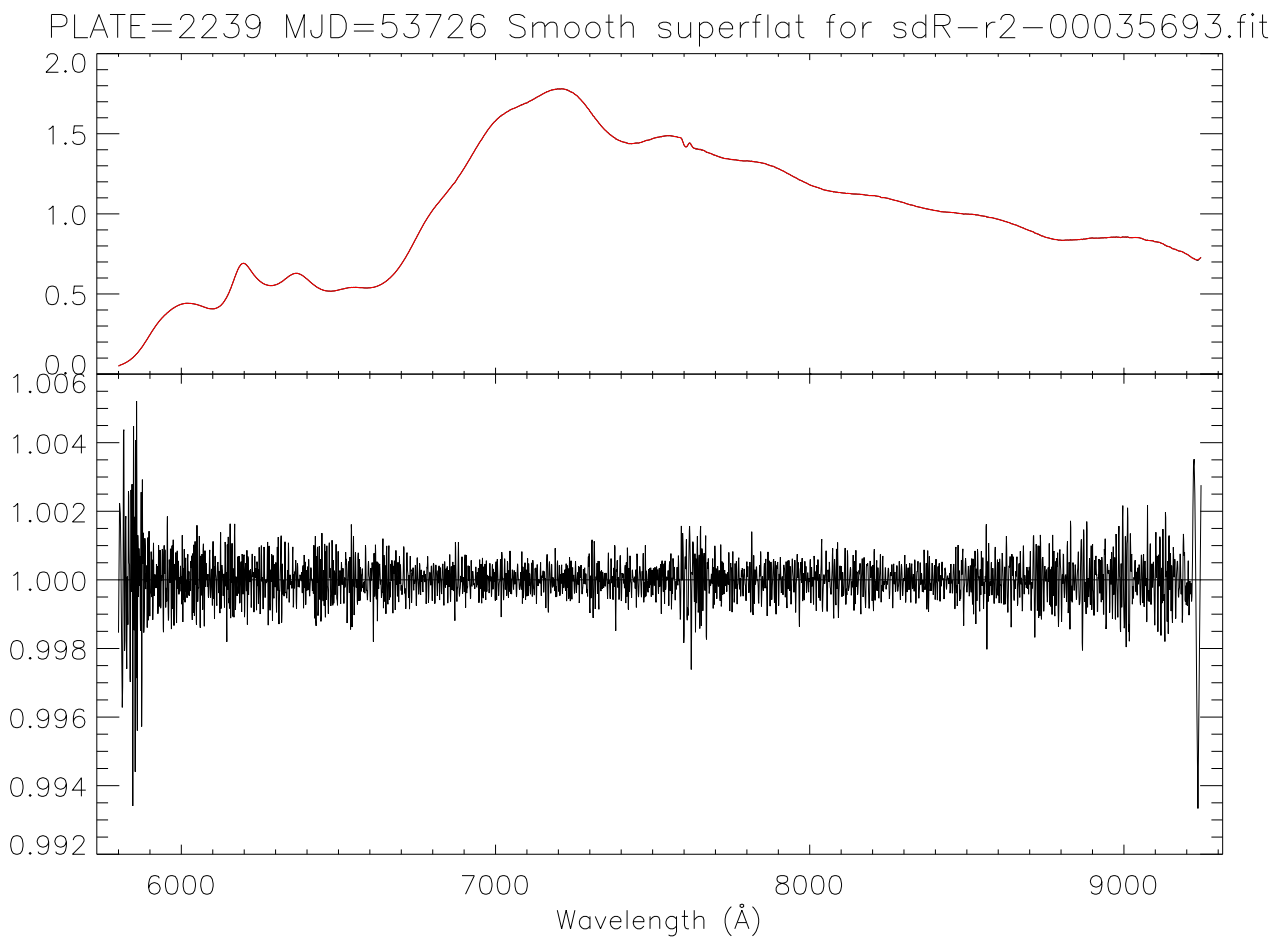

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

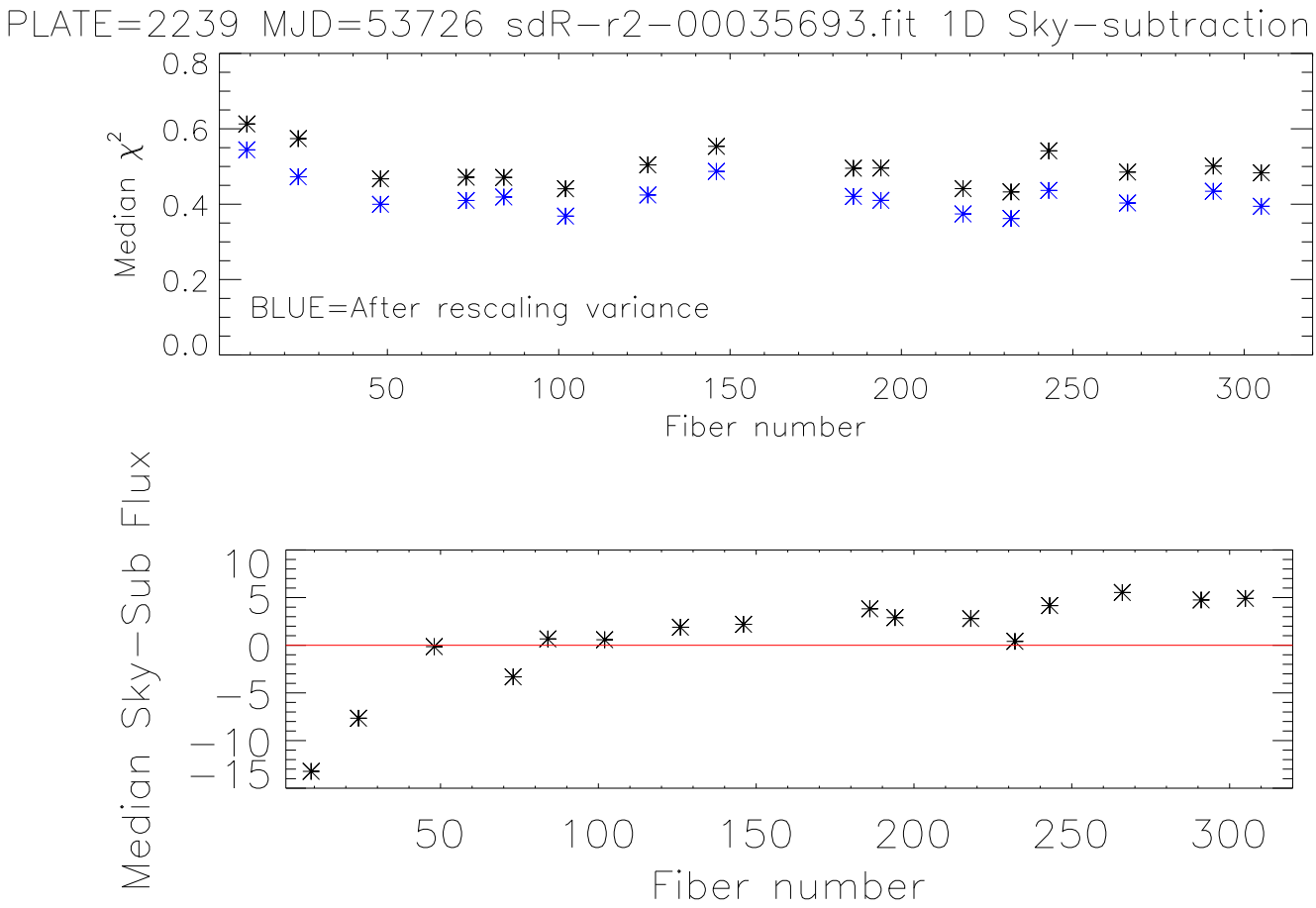

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

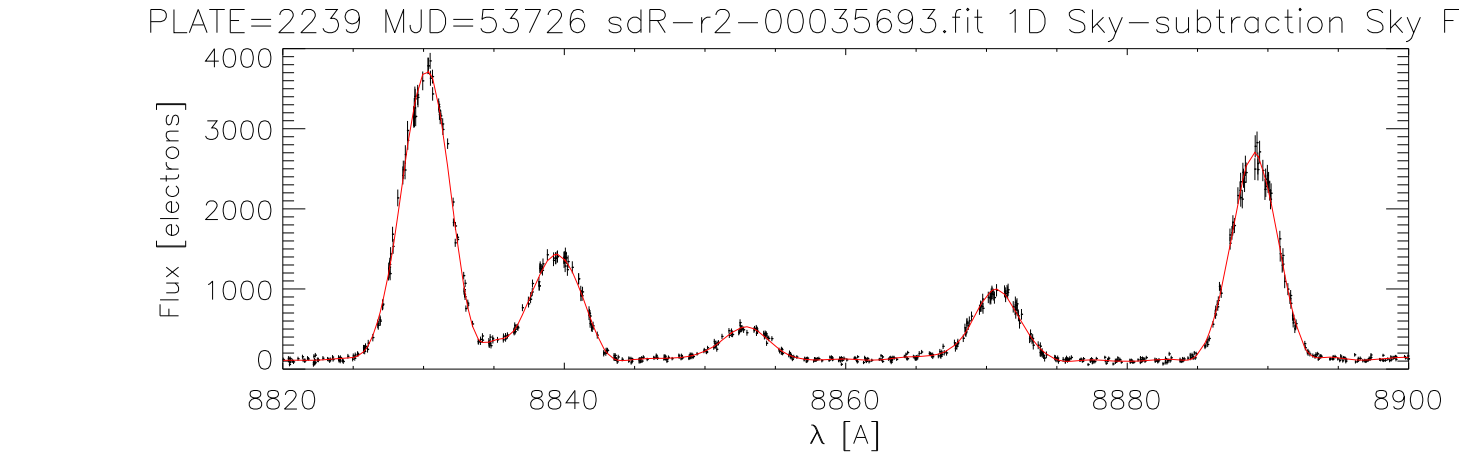

6300.3040
stdev 0.013
extra 0.18
6363.7760
stdev 0.028
extra 0.26
6553.6100
stdev 0.059
extra 0.14
6923.2100
stdev 0.024
extra 0.17
6949.0300
stdev 0.034
extra 0.21
7571.7500
stdev 0.037
extra 0.19
7794.1200
stdev 0.022
extra 0.16
7821.5100
stdev 0.025
extra 0.13
8399.1600
stdev 0.020
extra 0.13
8430.1700
stdev 0.019
extra 0.15
8885.8300
stdev 0.022
extra 0.18
8919.6100
stdev 0.018
extra 0.17
meas − pred, pix
mfhd2 16

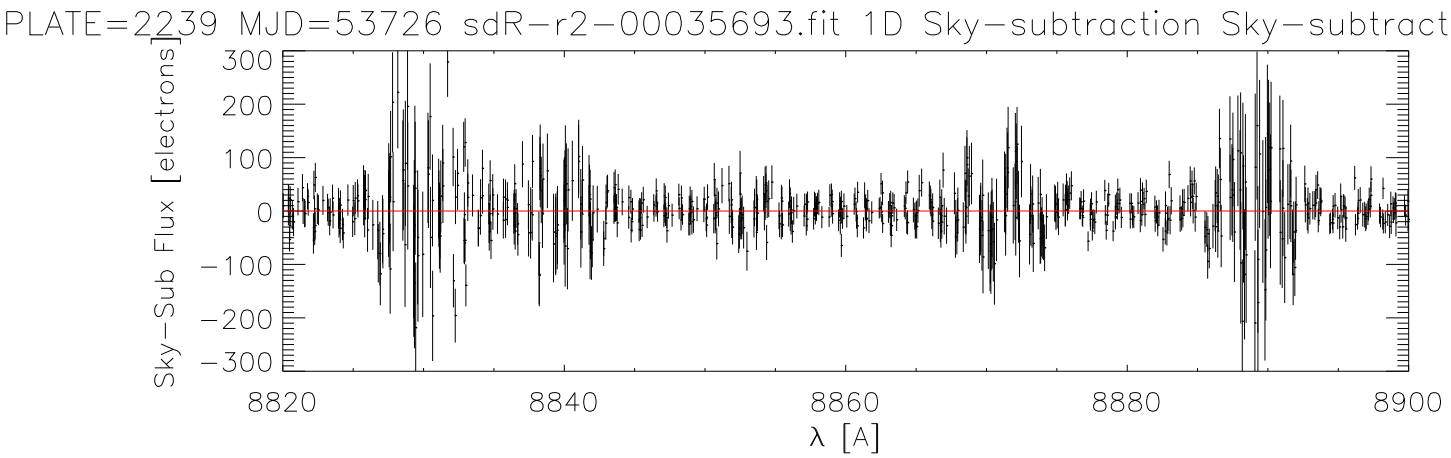

sky shift, pixels
0.24
0.22
0.20
0.18
0.16
0.14
0.12
0.10
5000
6000
7000
8000
9000
10000

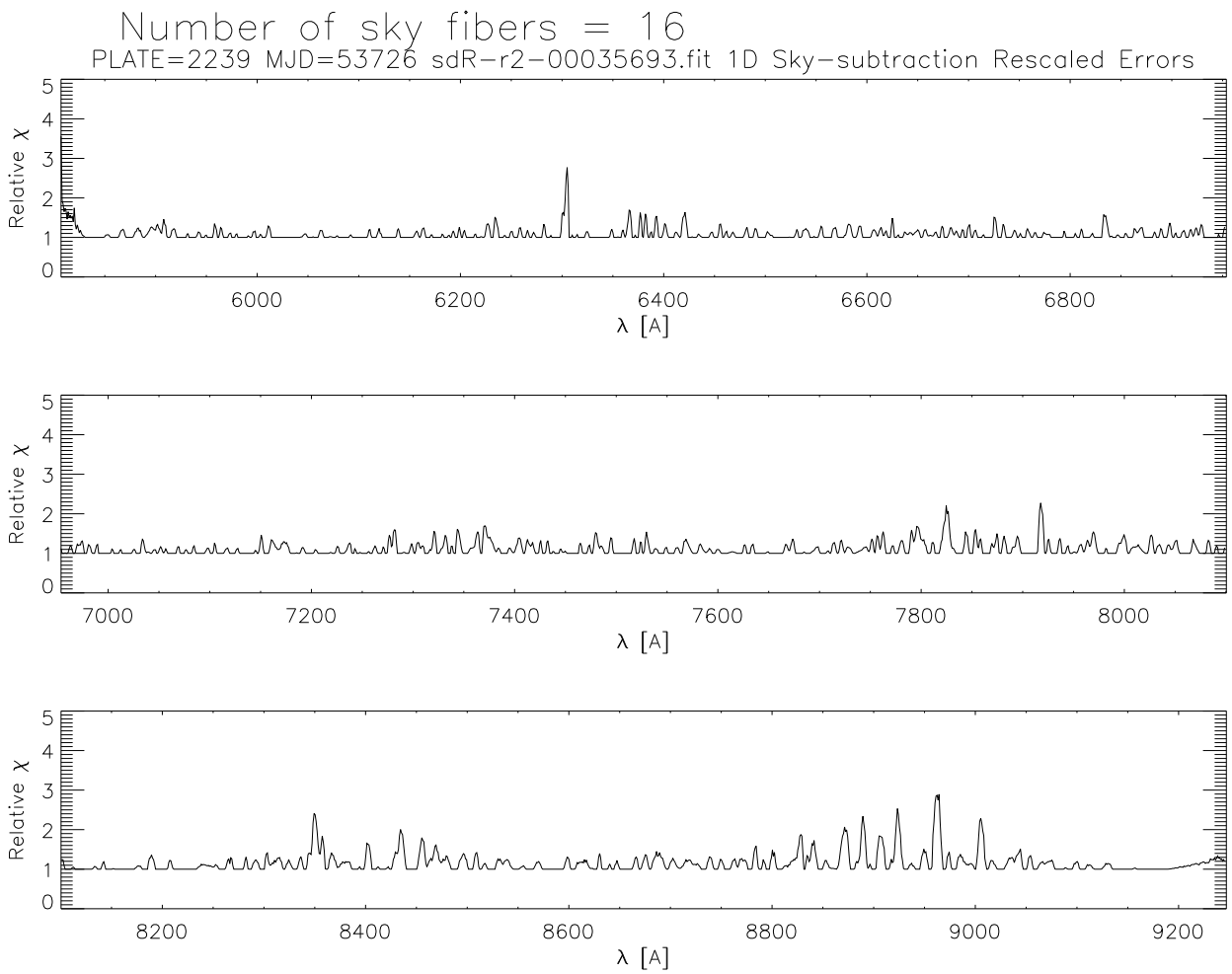
es= −0.0000

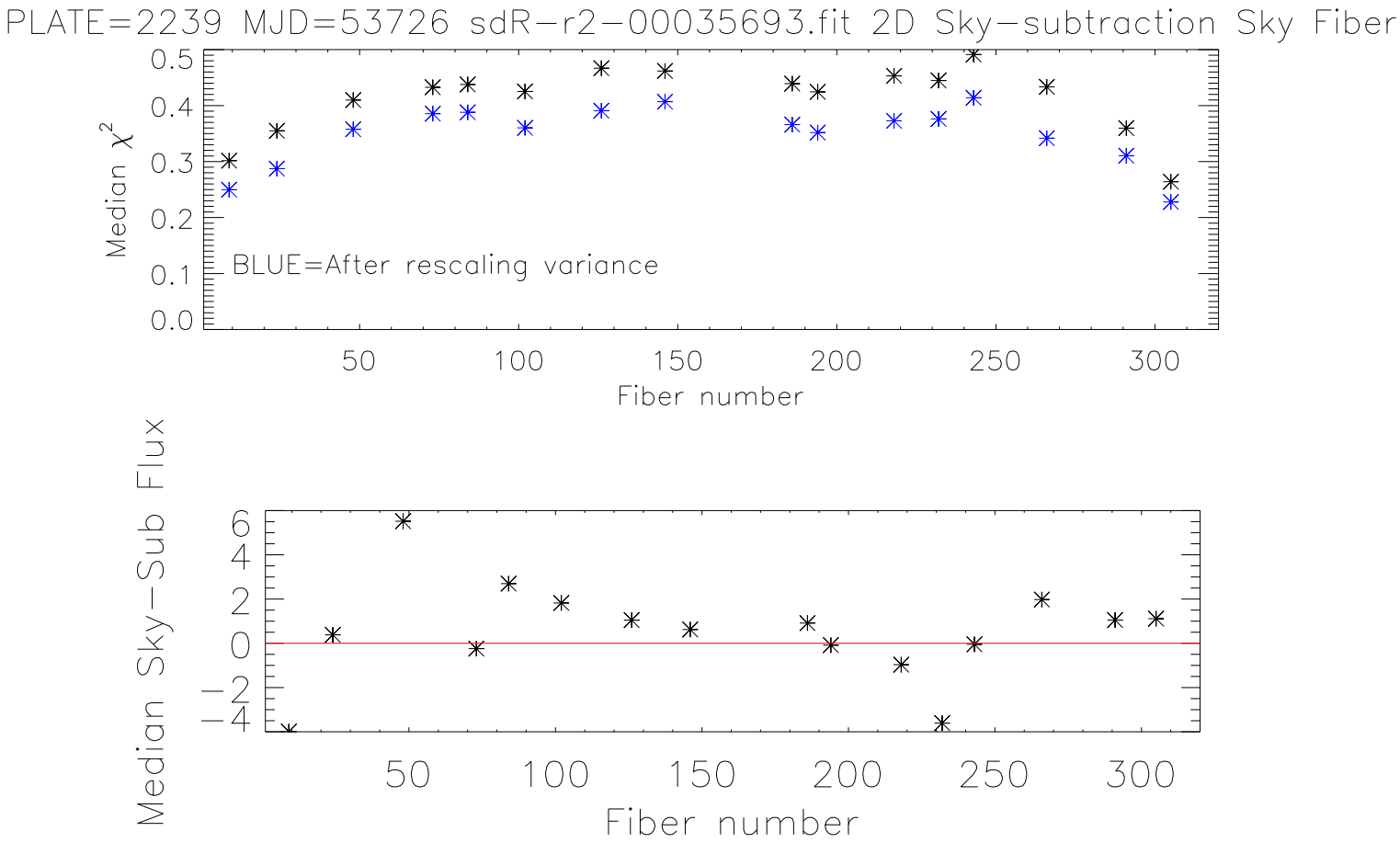

PLATE=2239 MJD=53726 Smooth superflat for sdR−r2−00035693.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

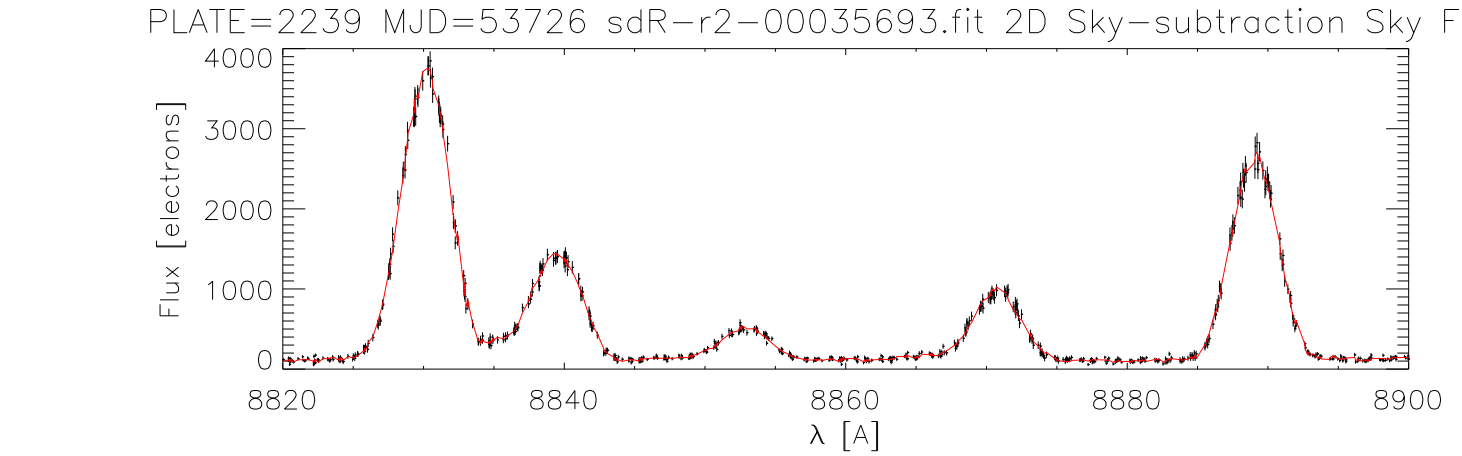

PLATE=2239 MJD=53726 sdR-r2-00035693.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

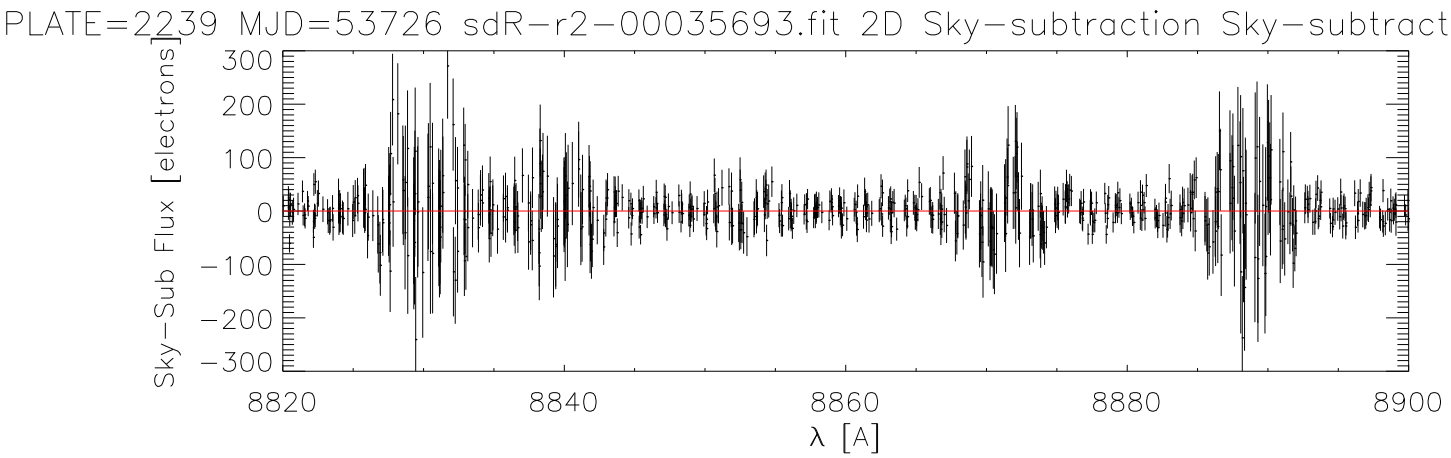

PLATE=2239 MJD=53726 sdR-r2-00035693.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

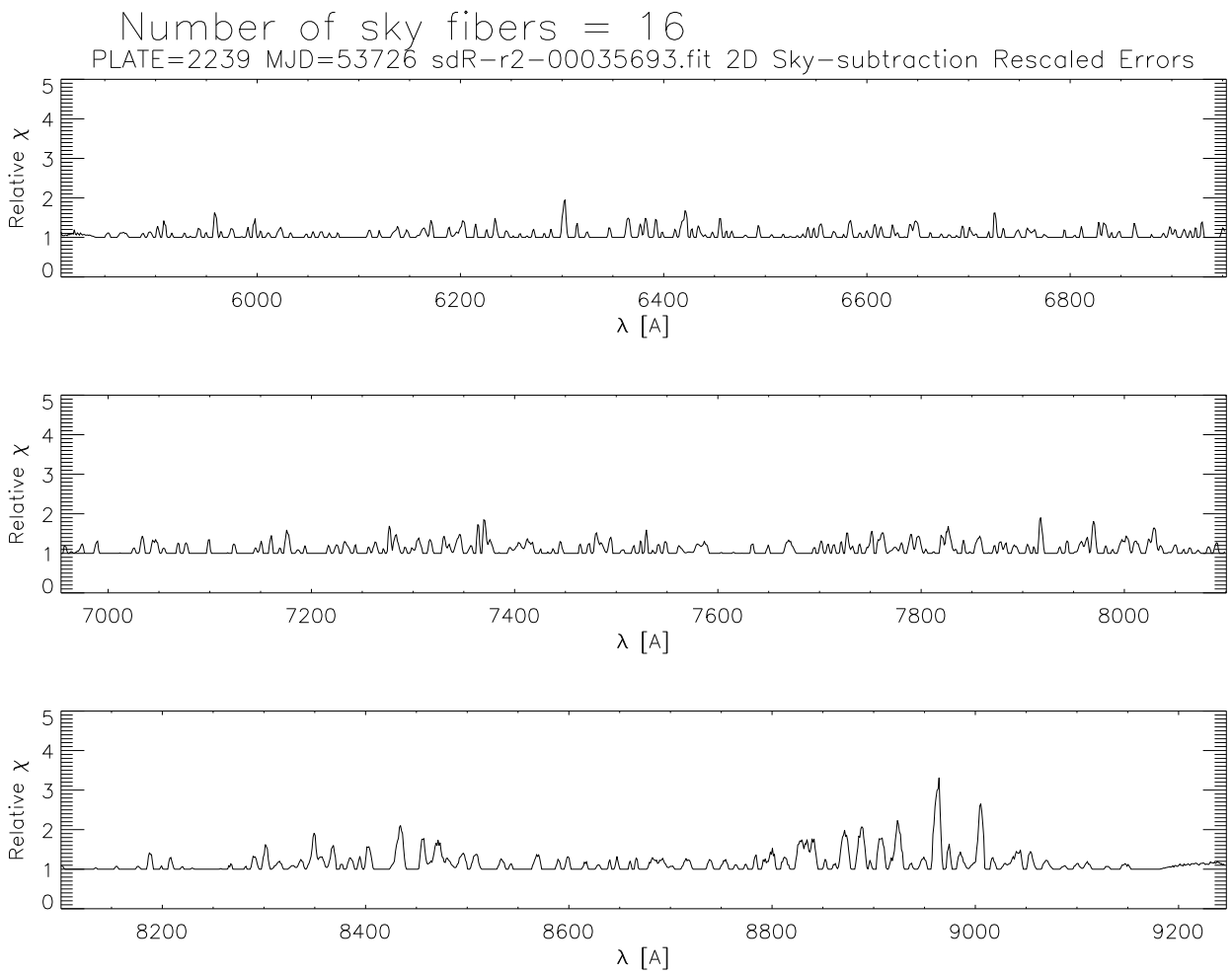

PLATE=2239 MJD=53726 sdR-r2-00035693.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

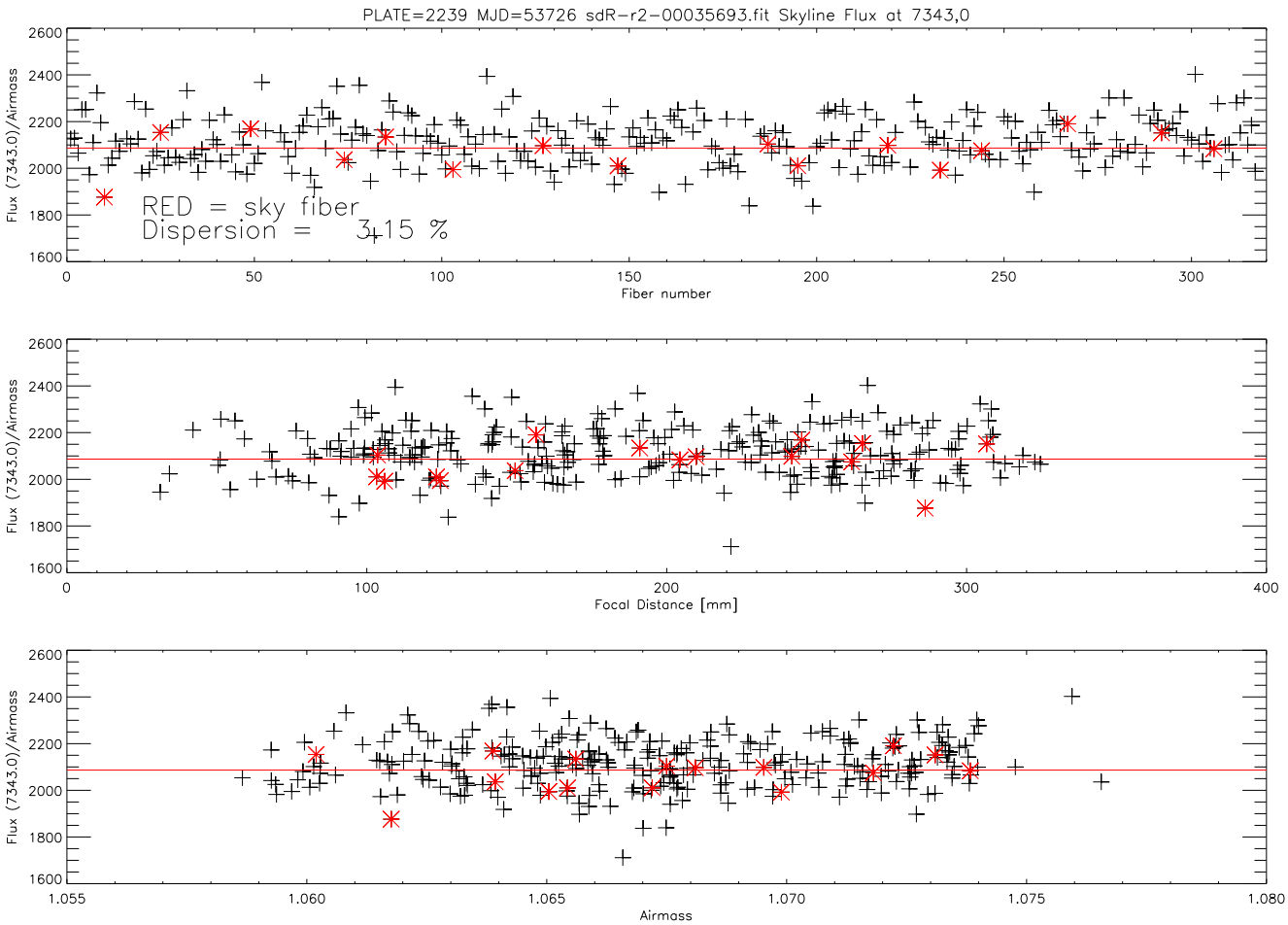

Number of sky fibers = 16
PLATE=2239 MJD=53726 sdR-r2-00035693.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

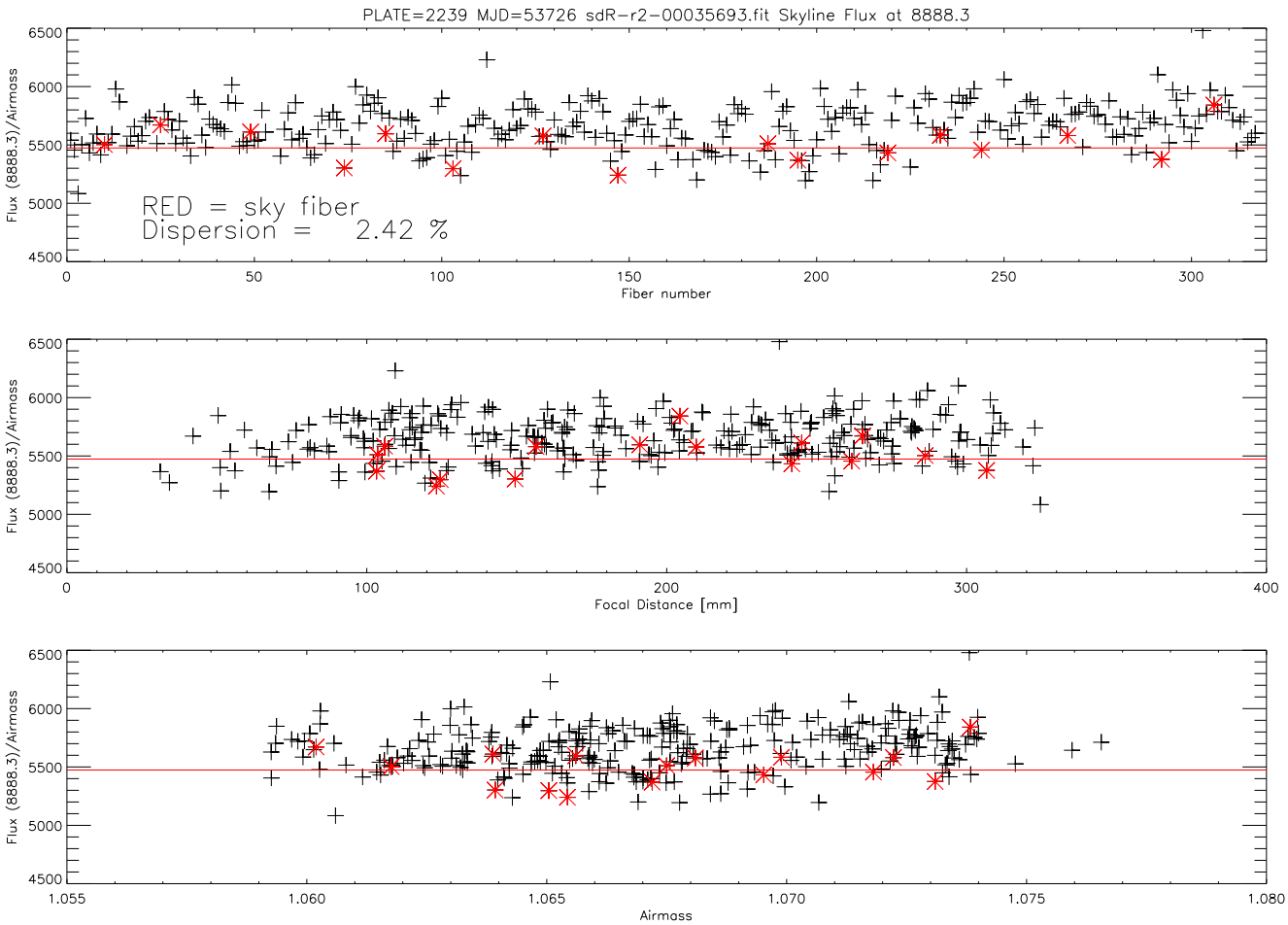

PLATE=2239 MJD=53726 sdR-r2-00035693.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

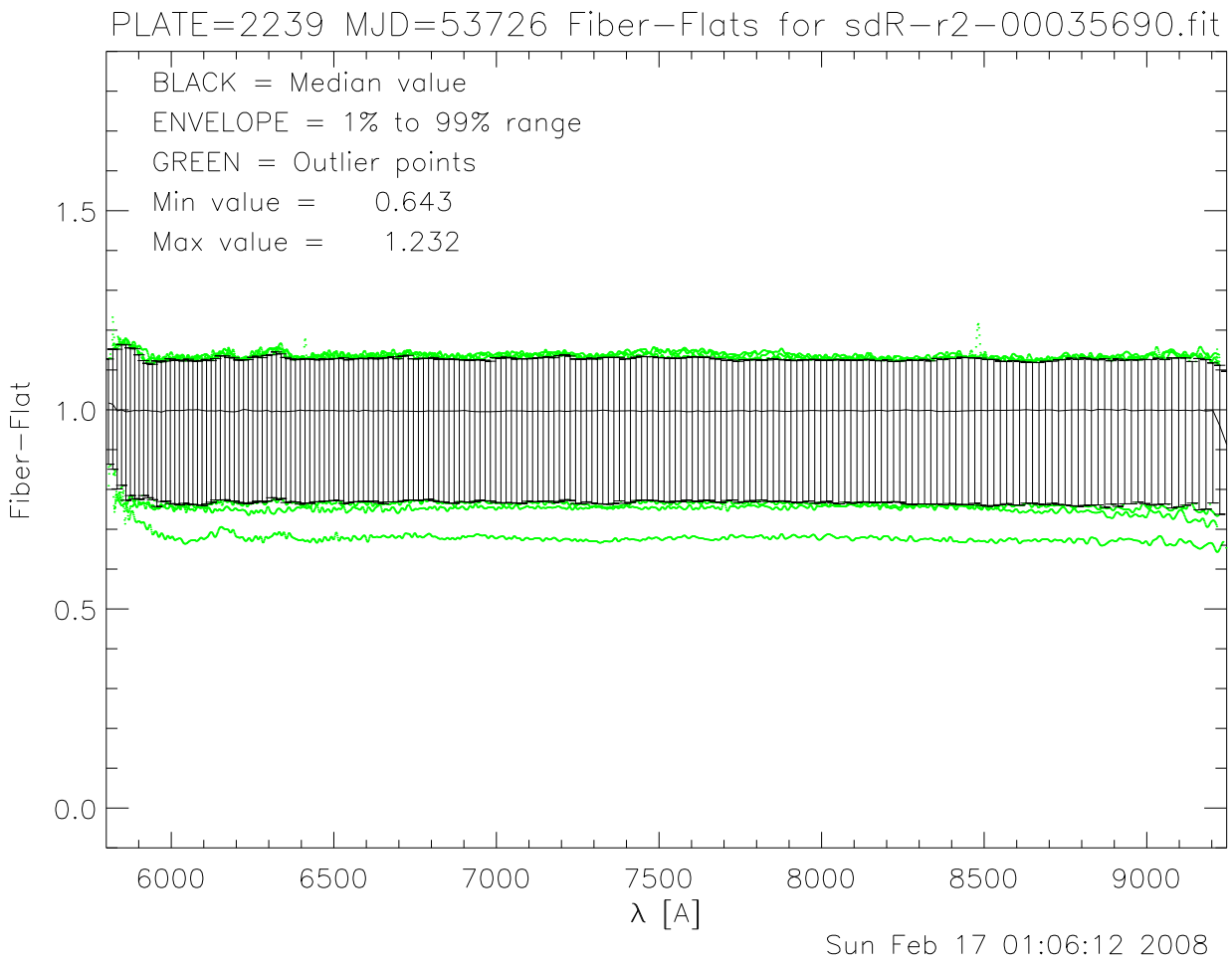

PLATE=2239 MJD=53726 sdR-r2-00035693.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

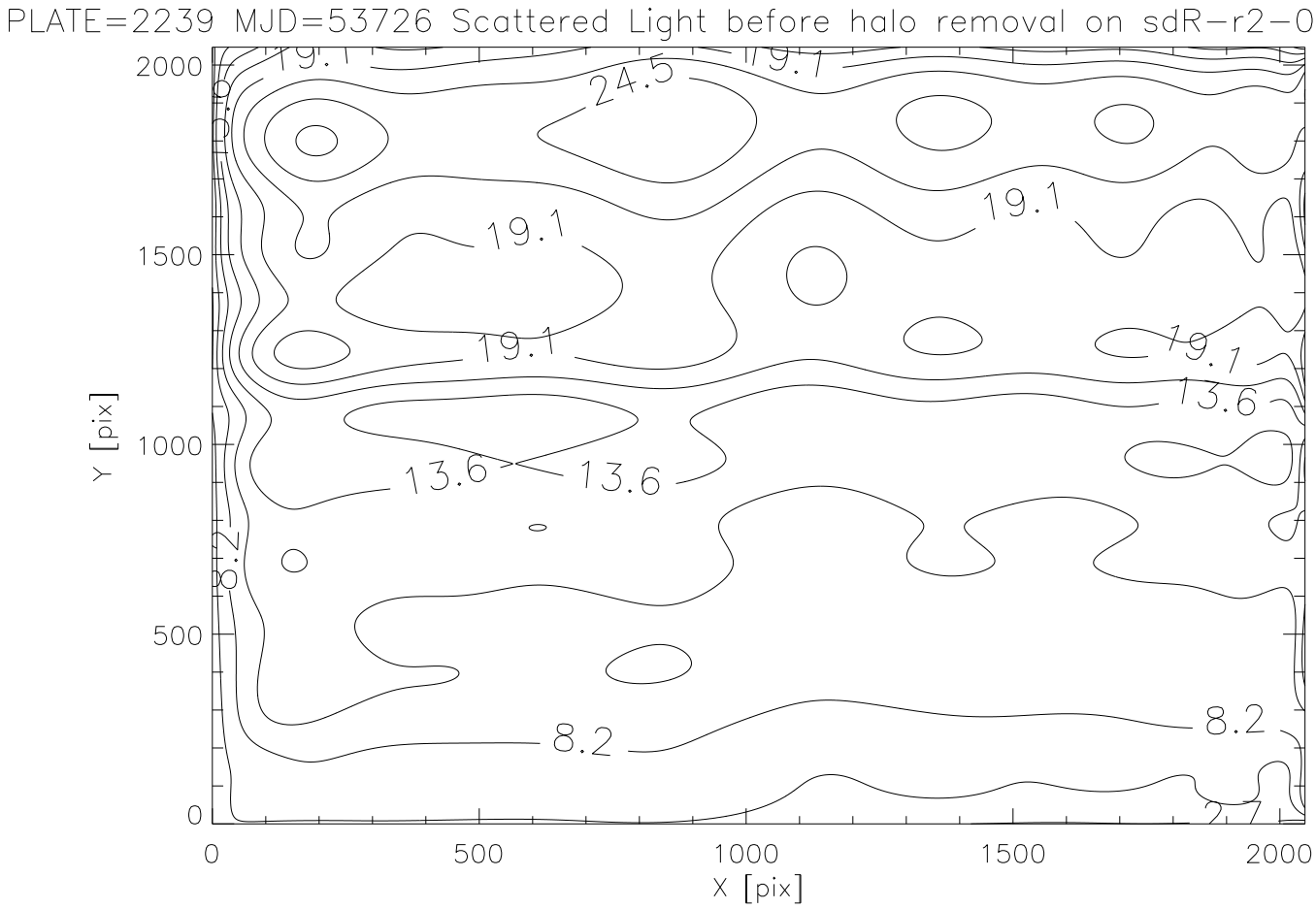

PLATE=2239 MJD=53726 sdR-r2-00035693.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

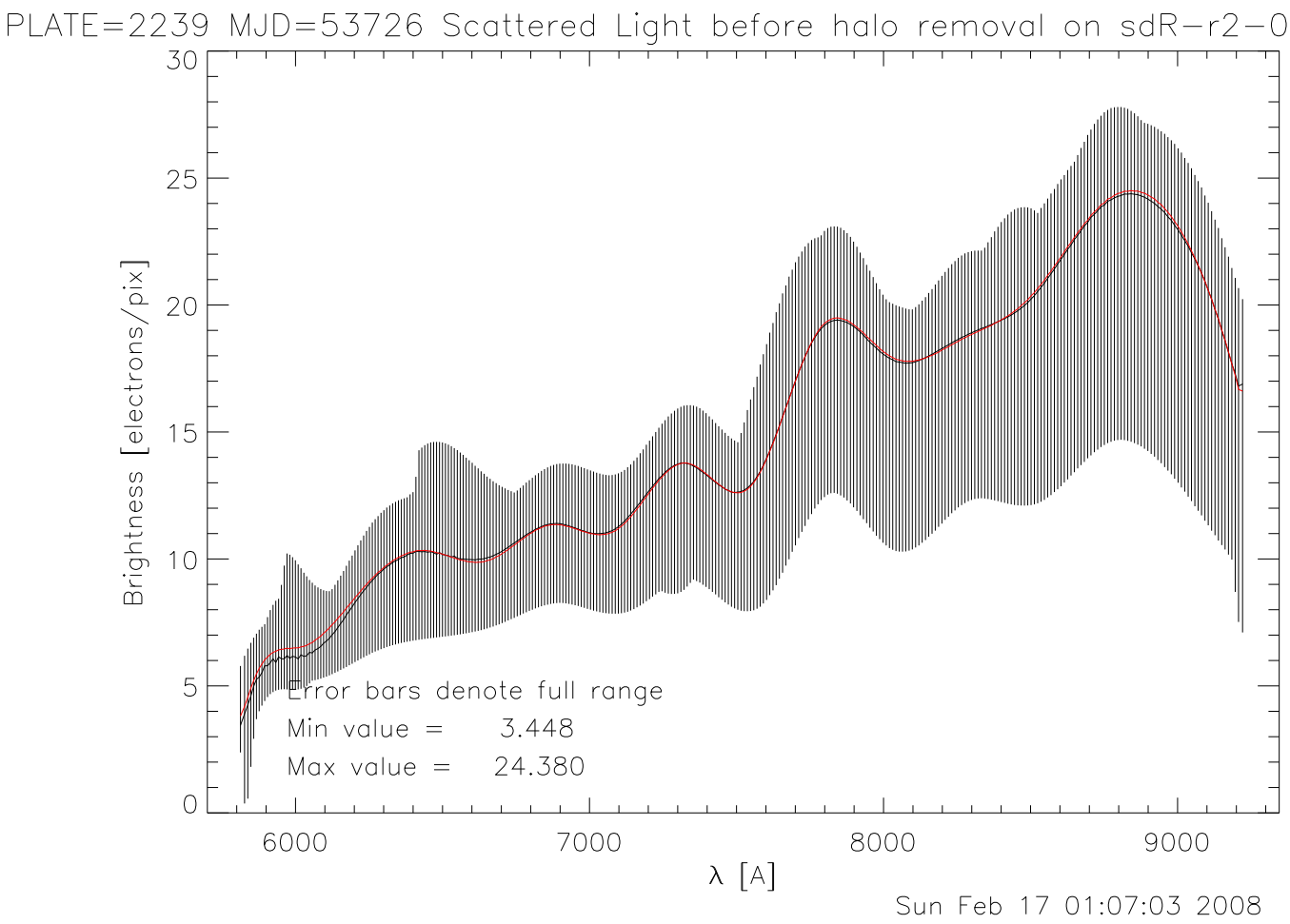

Number of sky fibers = 16
PLATE=2239 MJD=53726 sdR-r2-00035693.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

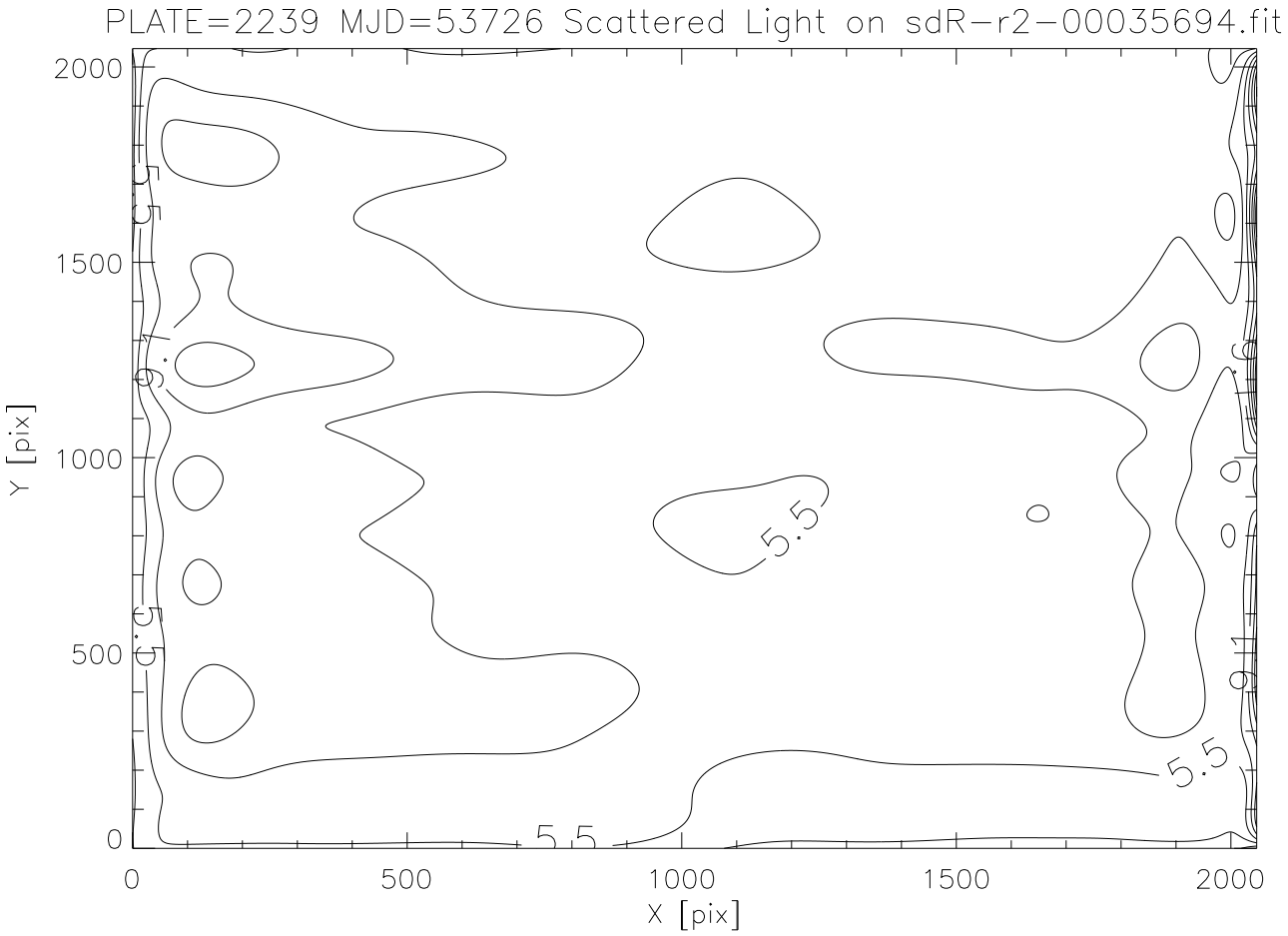

PLATE=2239 MJD=53726 sdR-r2-00035693.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.15 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

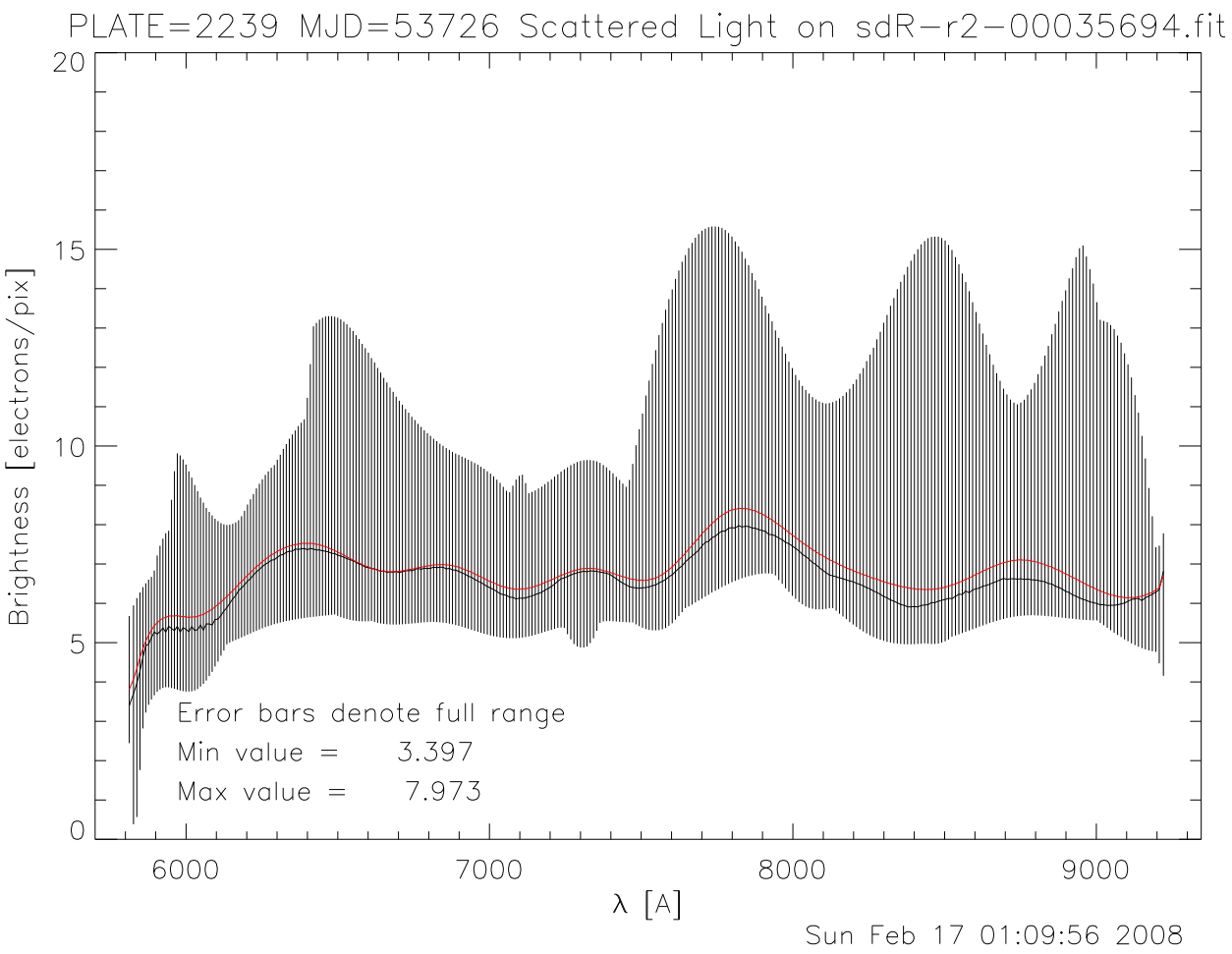

PLATE=2239 MJD=53726 sdR-r2-00035693.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.42 %
Fiber number
Focal Distance [mm]
Airmass

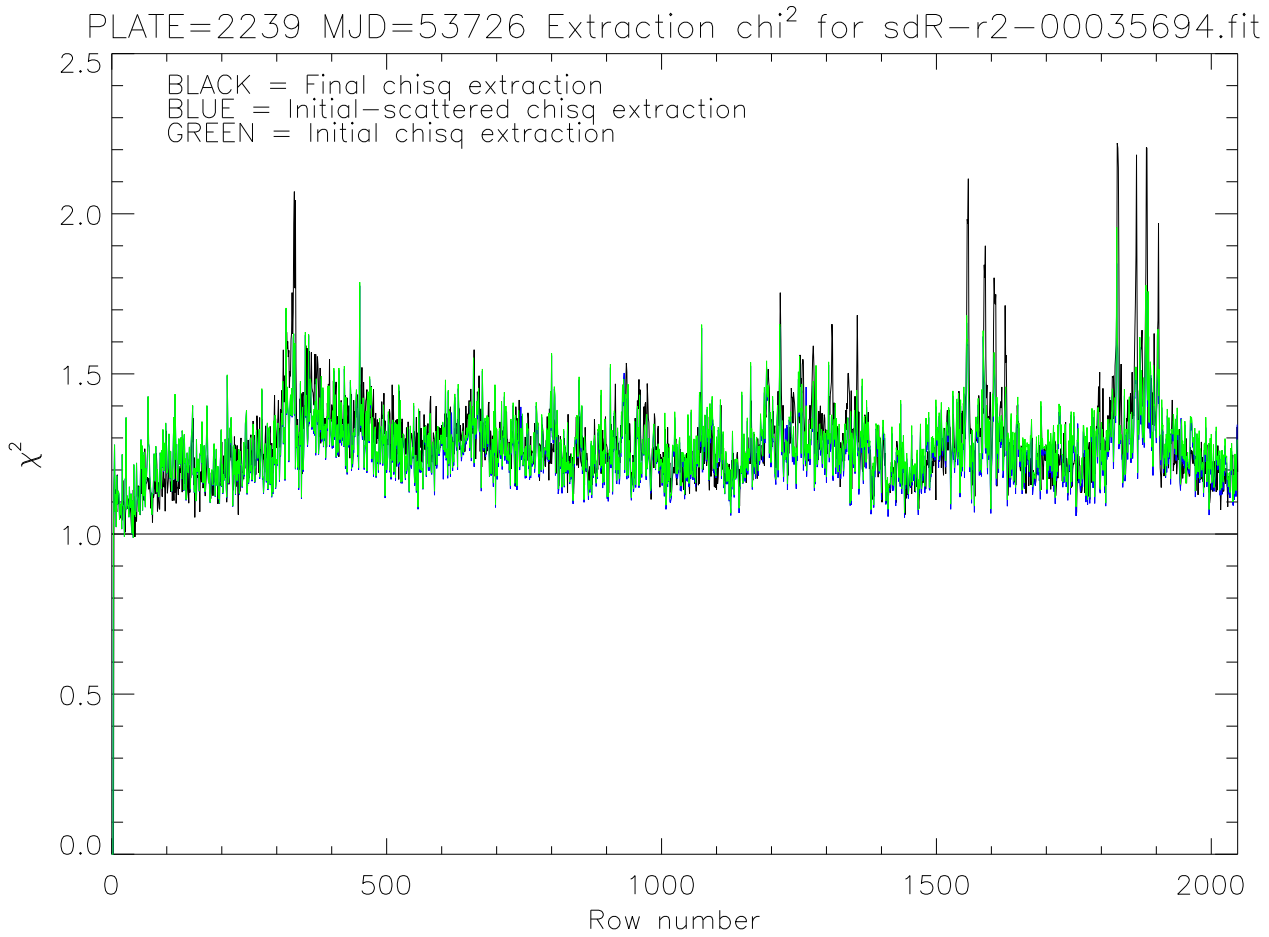

PLATE=2239 MJD=53726 Fiber−Flats for sdR−r2−00035690.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.643
Max value = 1.232
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 17 01:06:12 2008

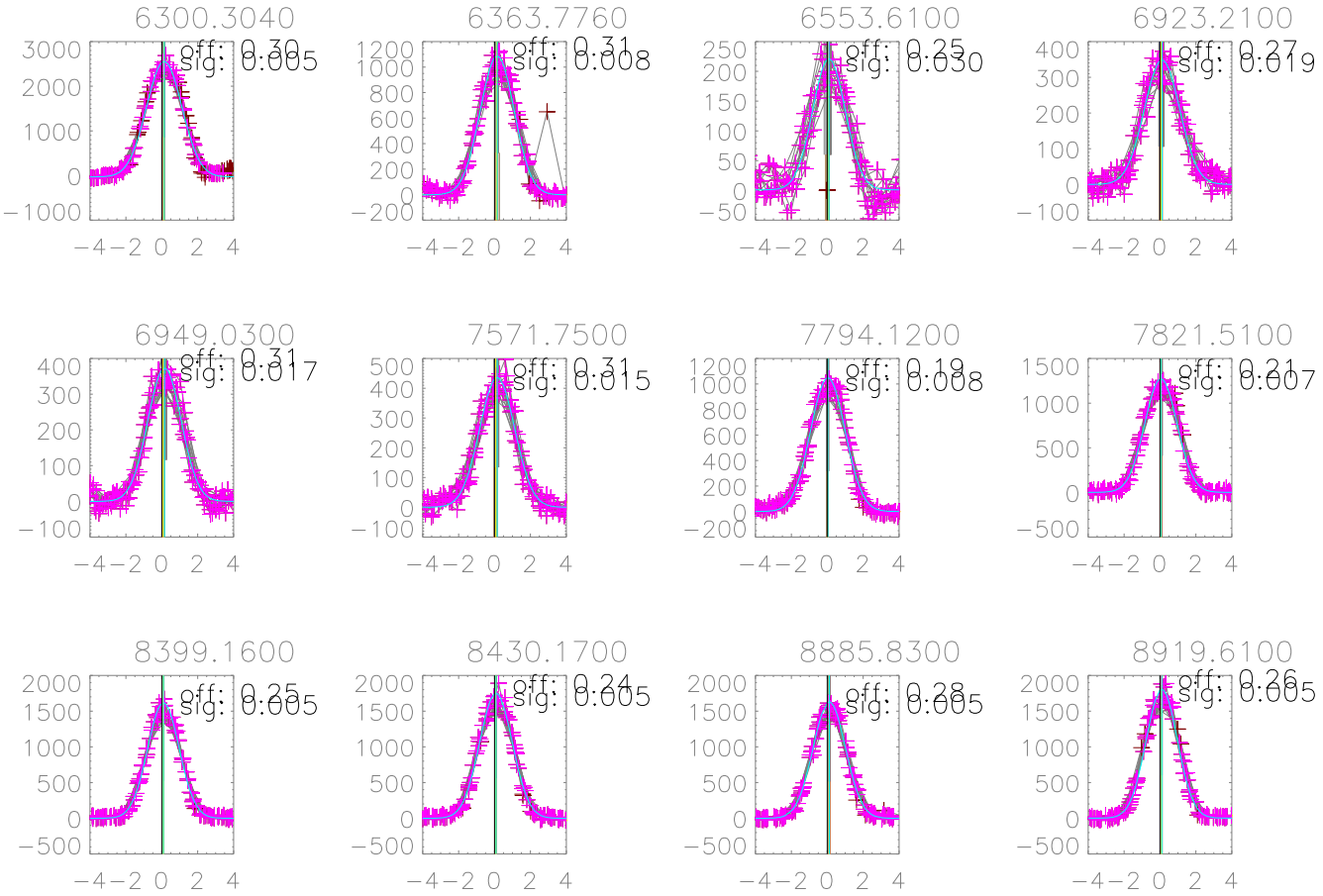

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR-r2-00035694.fi
19.1
24.5
19.1
19.1
19.1
19.1
19.1
13.6
13.6
13.6
8.2
8.2
8.2
2.7
Y [pix]
X [pix]
0
500
1000
1500
2000

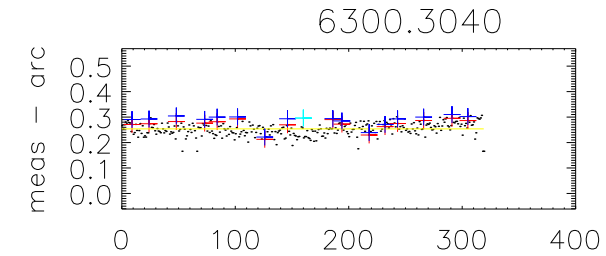

PLATE=2239 MJD=53726 Scattered Light before halo removal on sdR-r2-00035694.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.448
Max value = 24.380
Sun Feb 17 01:07:03 2008

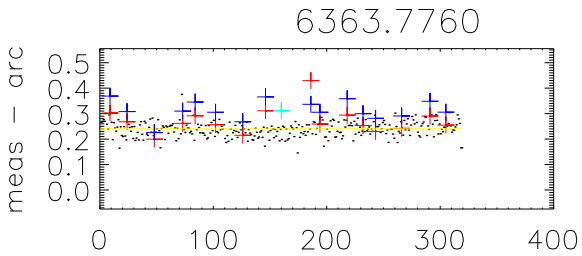

PLATE=2239 MJD=53726 Scattered Light on sdR-r2-00035694.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.5
0

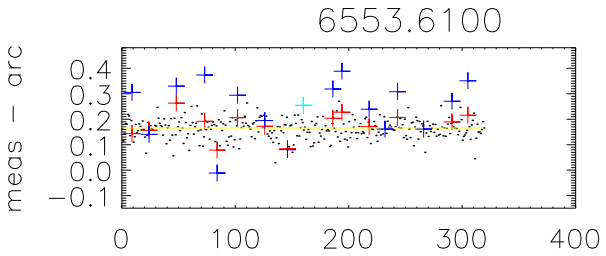

PLATE=2239 MJD=53726 Scattered Light on sdR-r2-00035694.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 3.397
Max value = 7.973
Sun Feb 17 01:09:56 2008

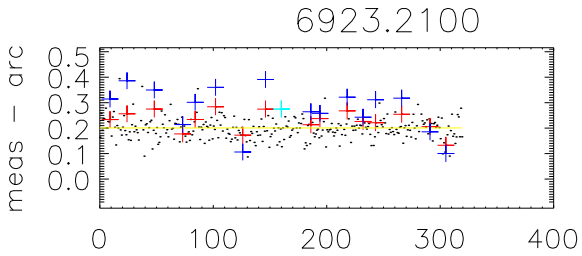

PLATE=2239 MJD=53726 Extraction chi^2 for sdR−r2−00035694.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

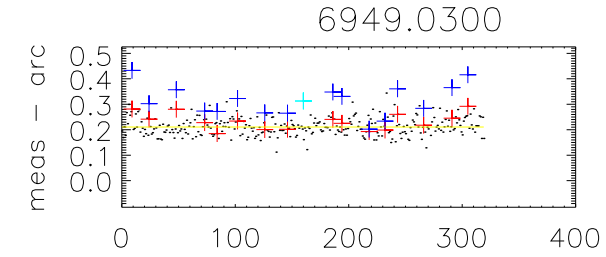

6300.3040
off: 0.30
sig: 0.005
6363.7760
off: 0.31
sig: 0.008
6553.6100
off: 0.25
sig: 0.030
6923.2100
off: 0.27
sig: 0.019
6949.0300
off: 0.31
sig: 0.017
7571.7500
off: 0.31
sig: 0.015
7794.1200
off: 0.19
sig: 0.008
7821.5100
off: 0.21
sig: 0.007
8399.1600
off: 0.25
sig: 0.005
8430.1700
off: 0.24
sig: 0.005
8885.8300
off: 0.28
sig: 0.005
8919.6100
off: 0.26
sig: 0.005

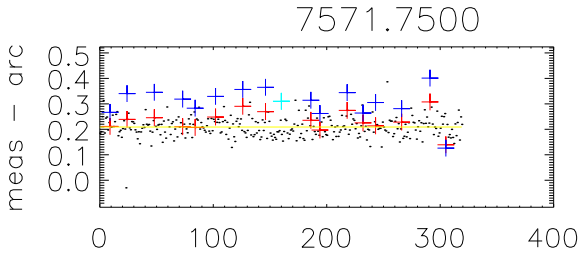

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

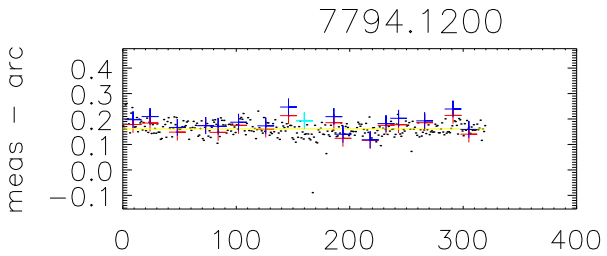

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

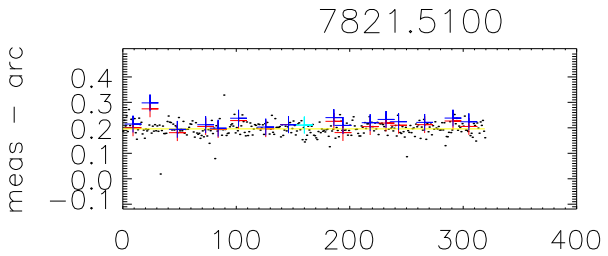

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

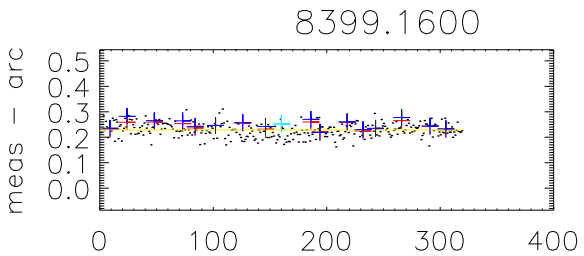

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

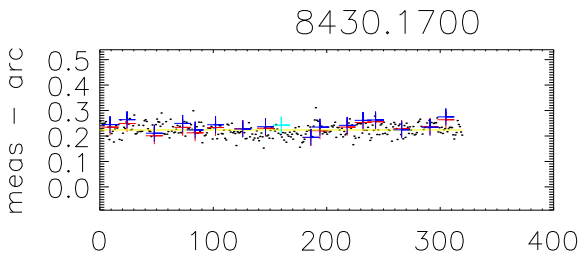

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

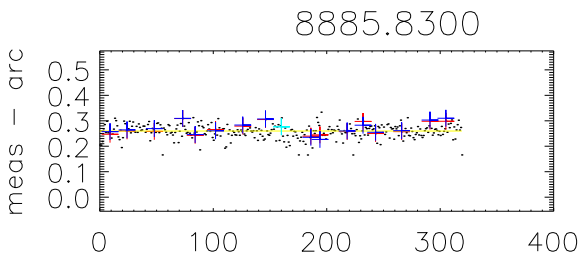

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

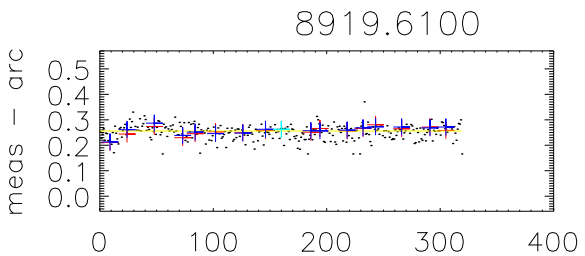

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

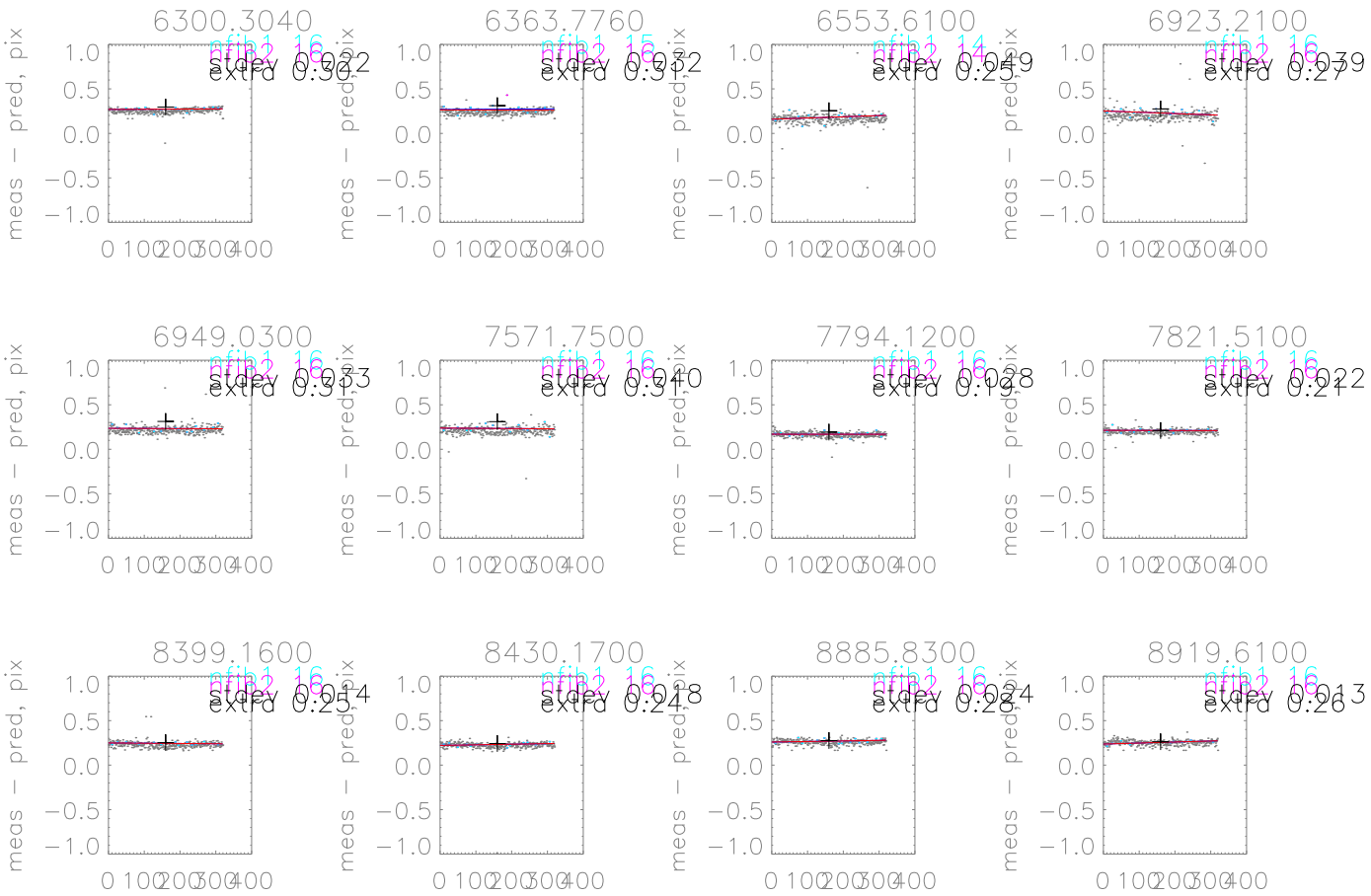

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

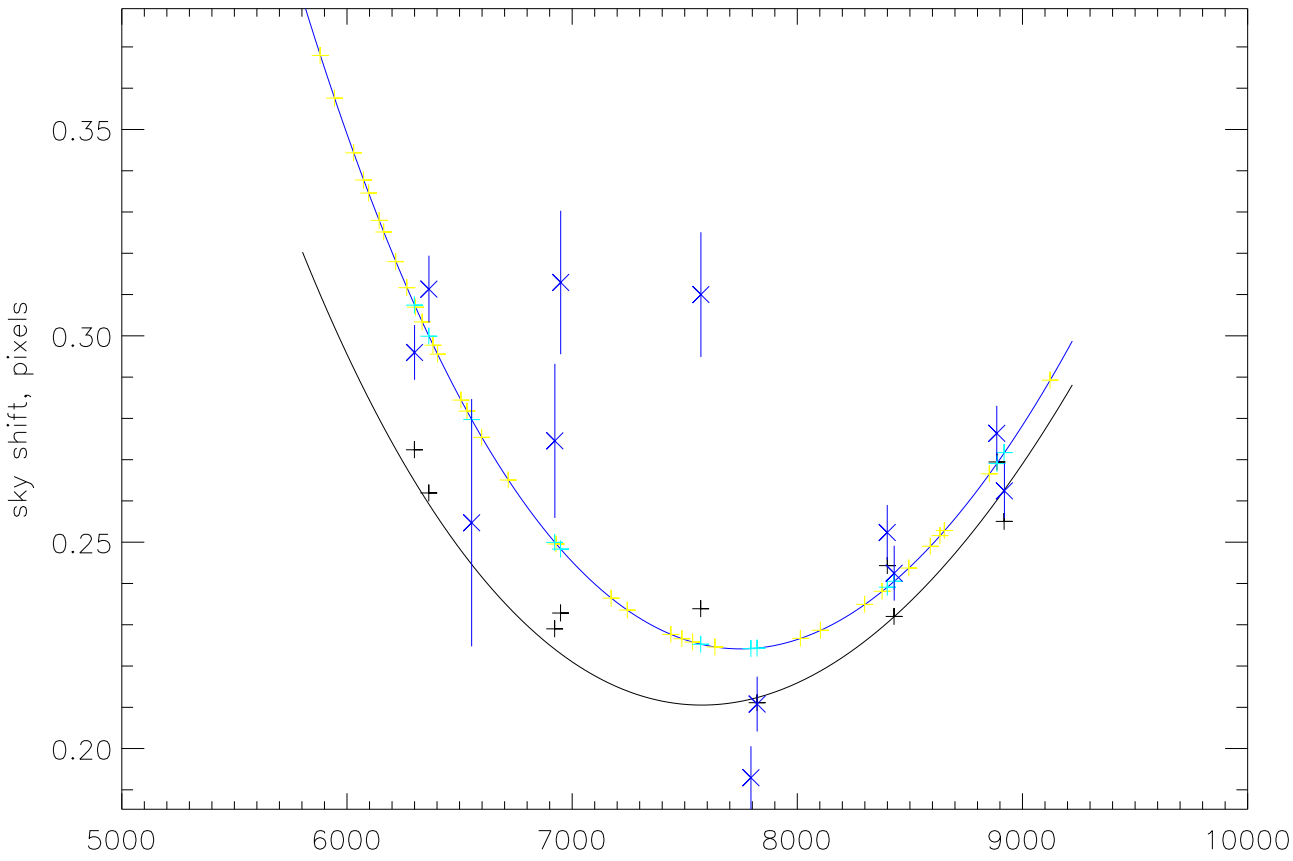

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

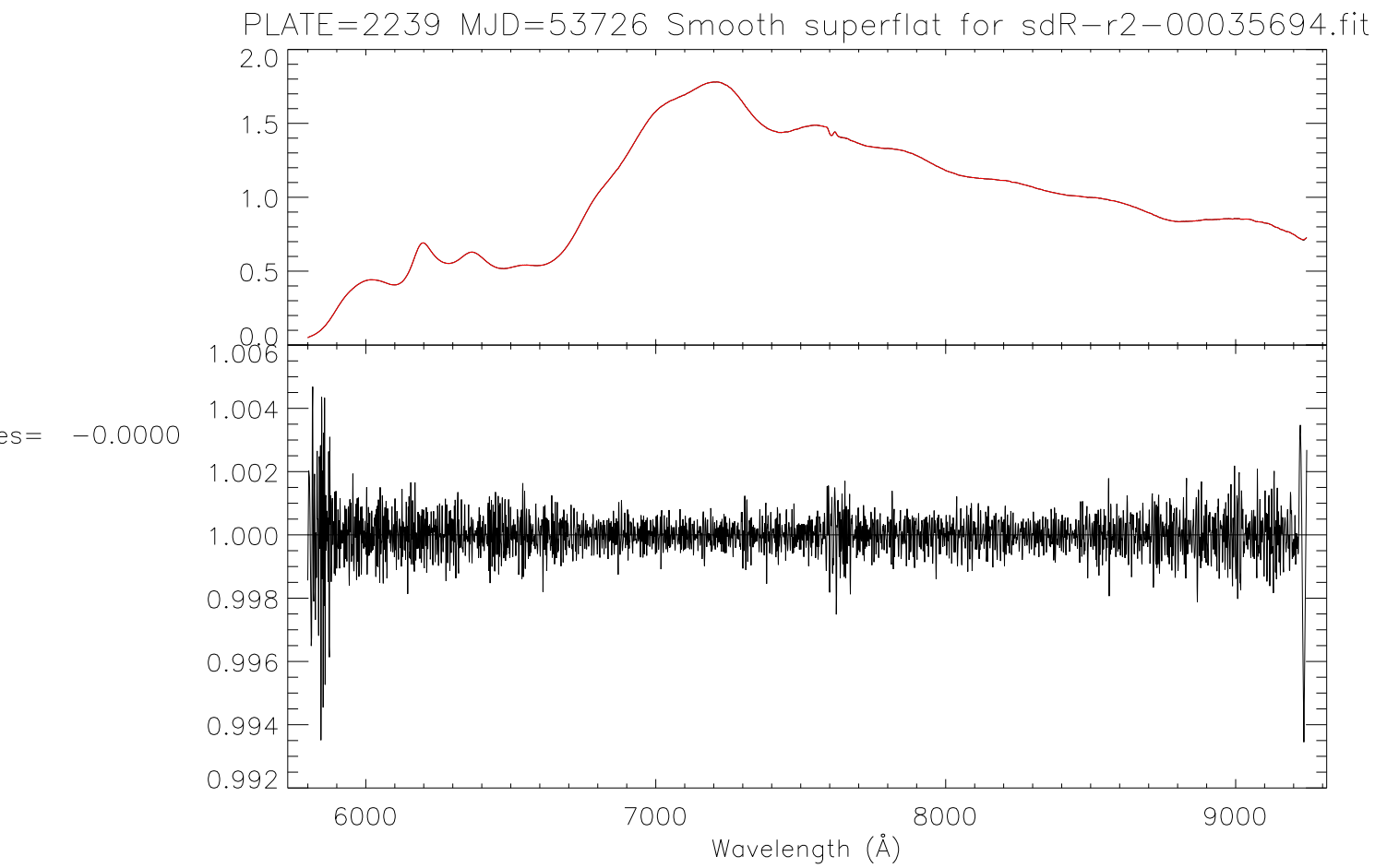

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

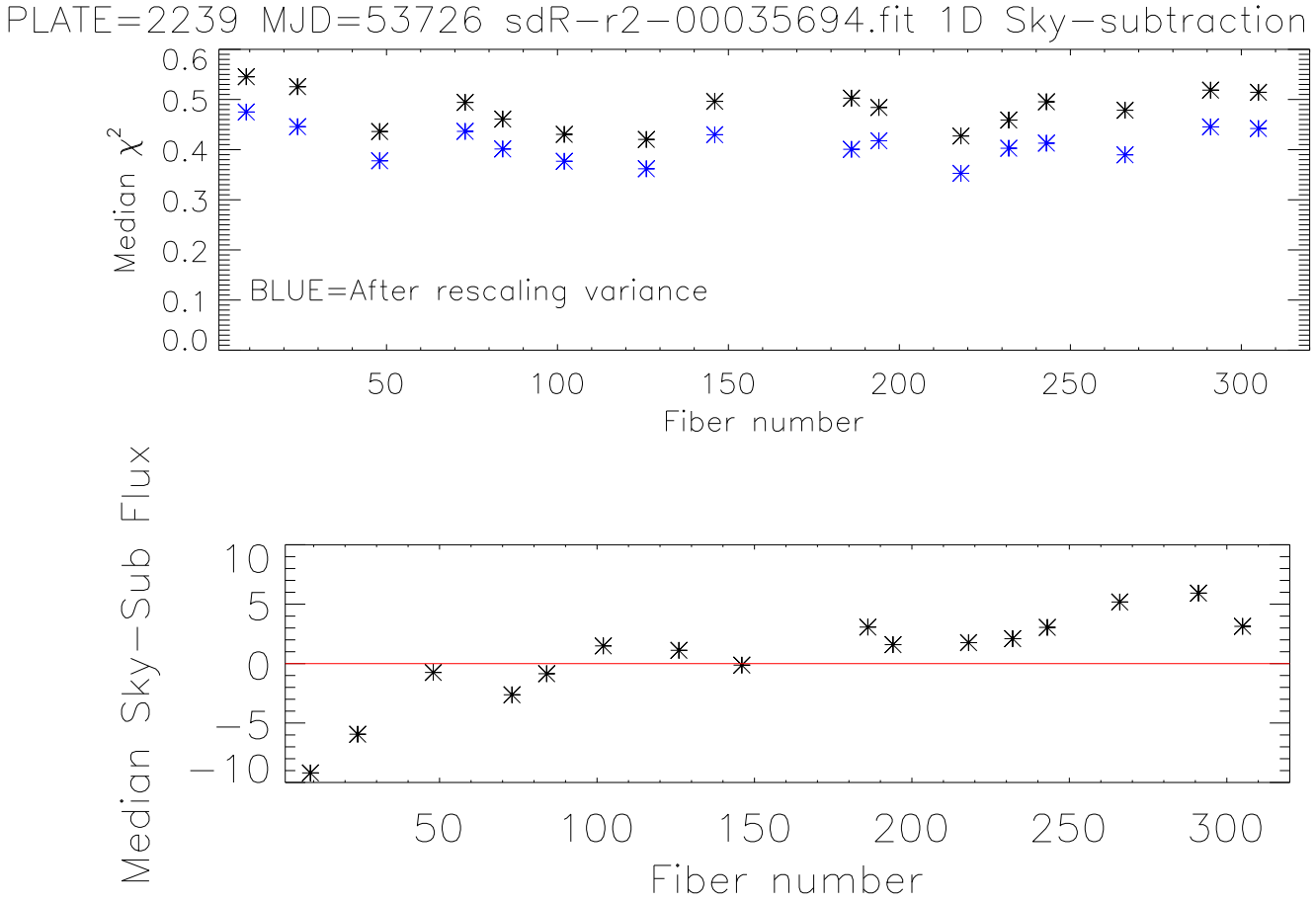

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

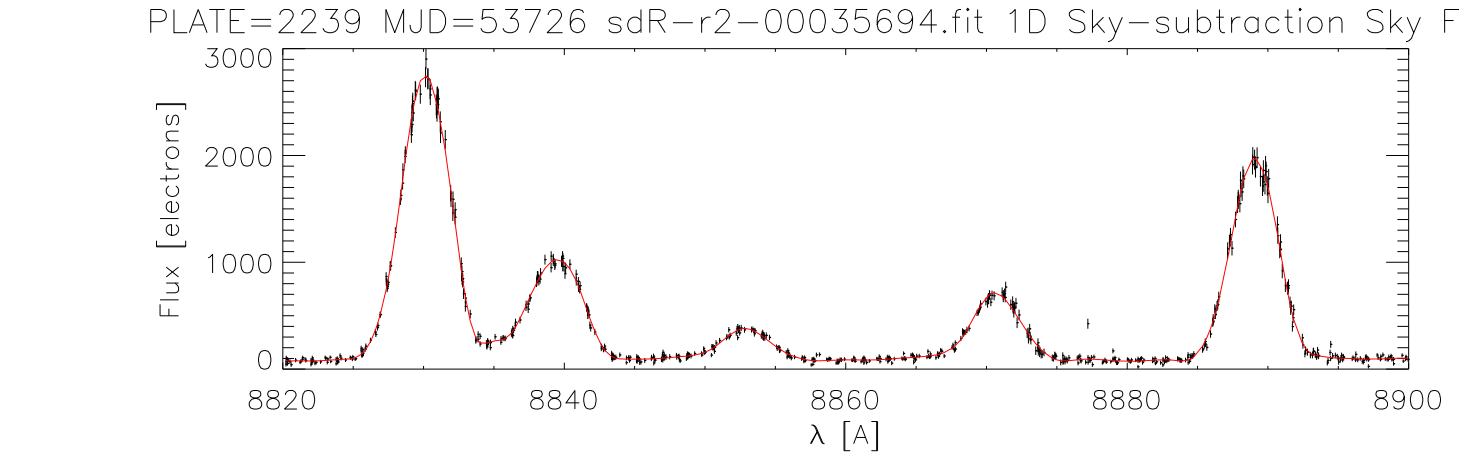

6300.3040
stdev 0.322
extra 0.36
6363.7760
stdev 0.332
extra 0.35
6553.6100
stdev 0.249
extra 0.25
6923.2100
stdev 0.239
extra 0.27
6949.0300
stdev 0.333
extra 0.31
7571.7500
stdev 0.340
extra 0.31
7794.1200
stdev 0.228
extra 0.19
7821.5100
stdev 0.222
extra 0.21
8399.1600
stdev 0.254
extra 0.25
8430.1700
stdev 0.248
extra 0.24
8885.8300
stdev 0.224
extra 0.28
8919.6100
stdev 0.213
extra 0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

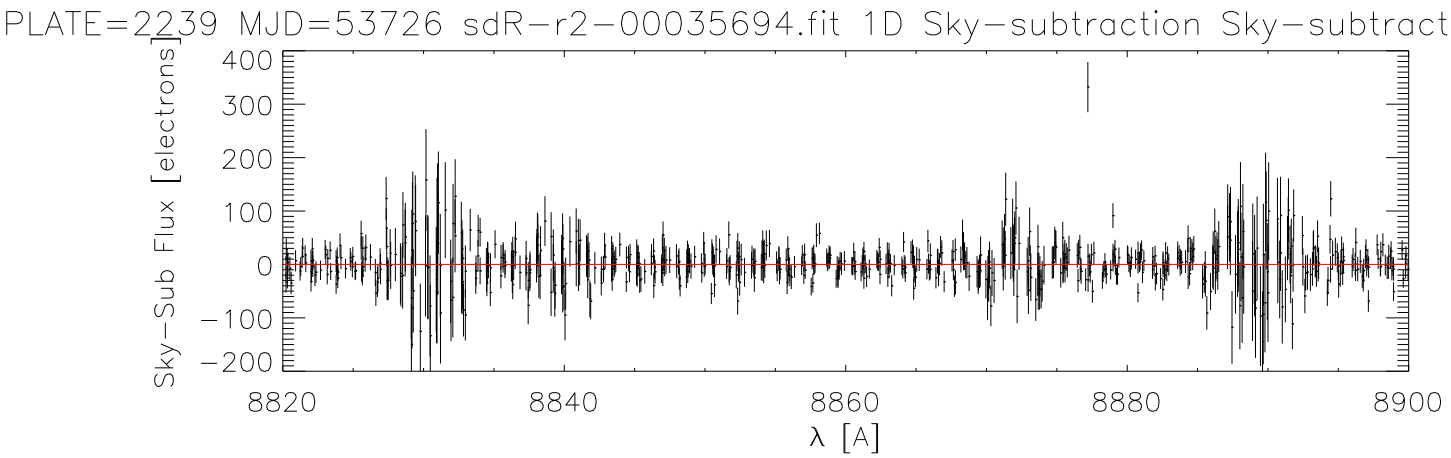

sky shift, pixels
0.35
0.30
0.25
0.20
5000
6000
7000
8000
9000
10000

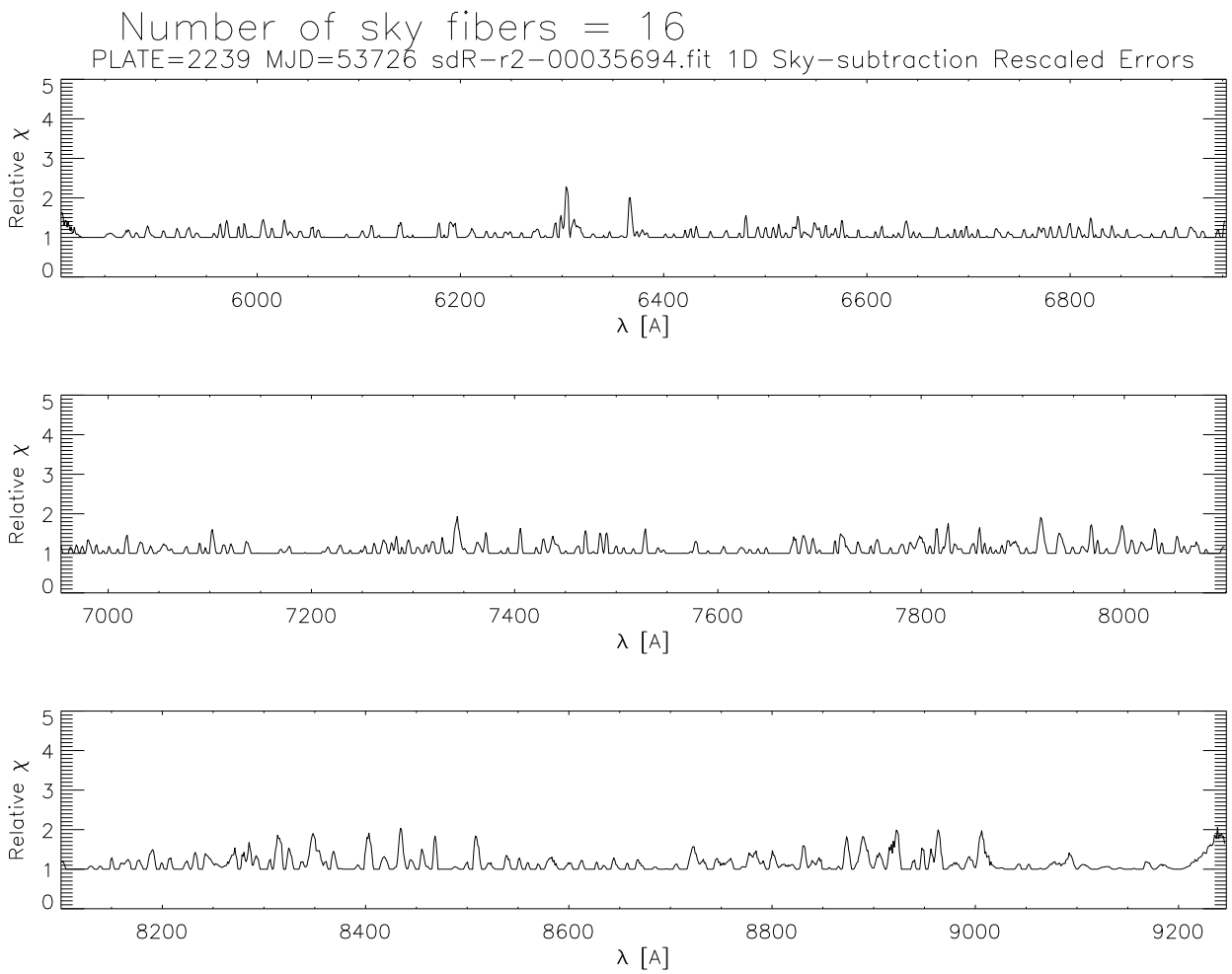

PLATE=2239 MJD=53726 Smooth superflat for sdR-r2-00035694.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

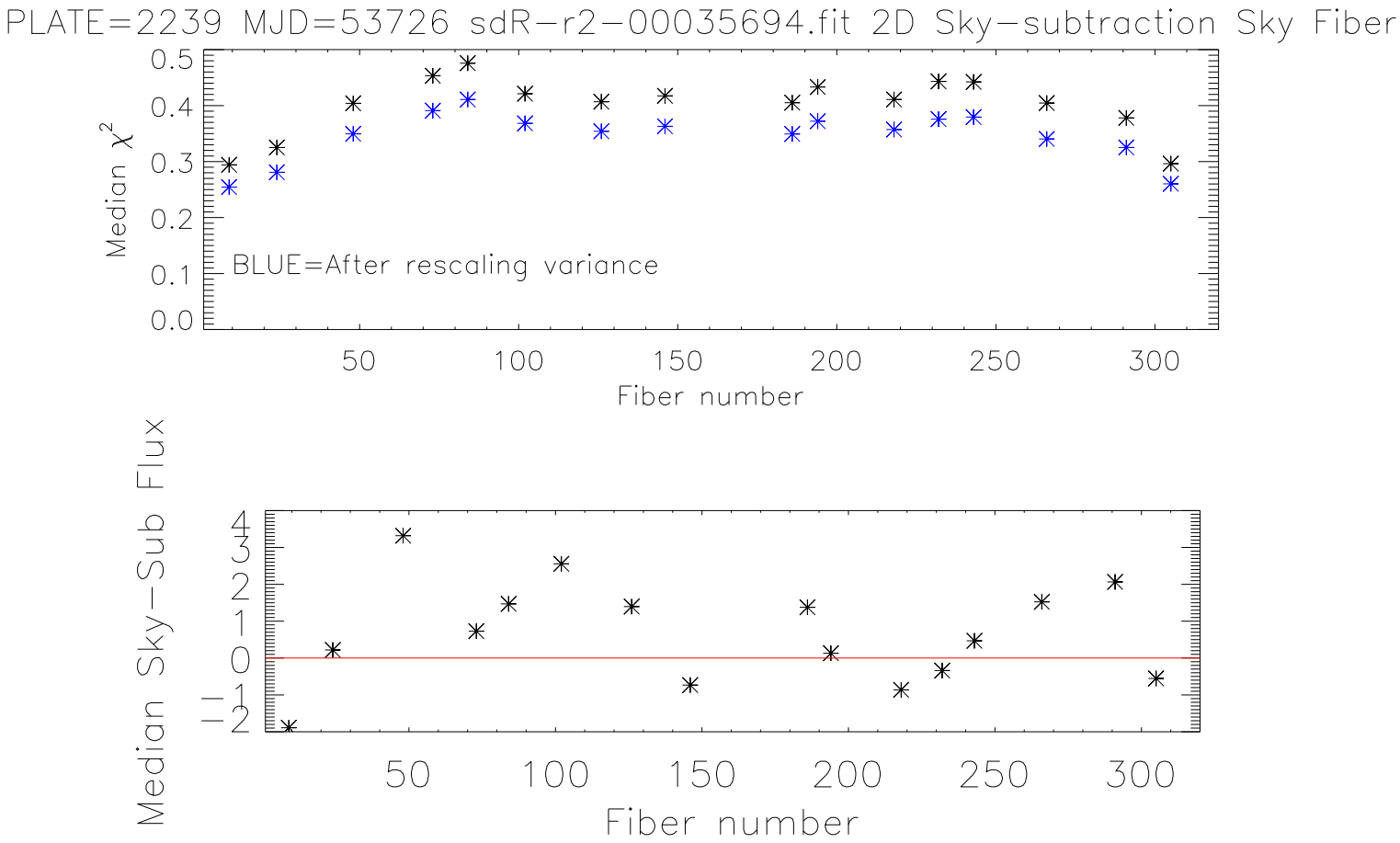
es= −0.0000

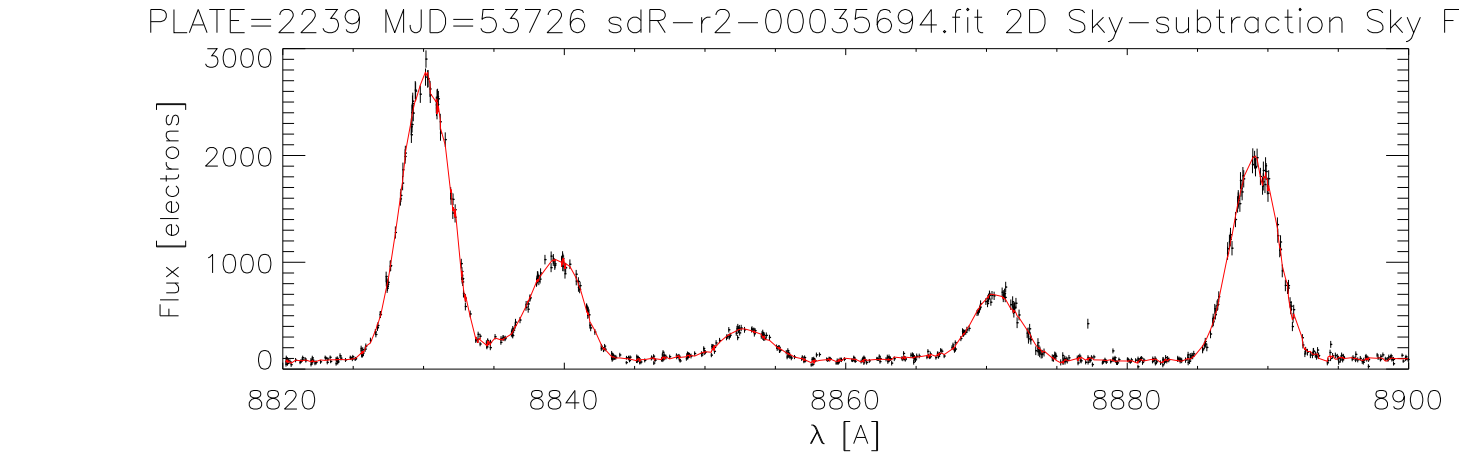

PLATE=2239 MJD=53726 sdR-r2-00035694.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

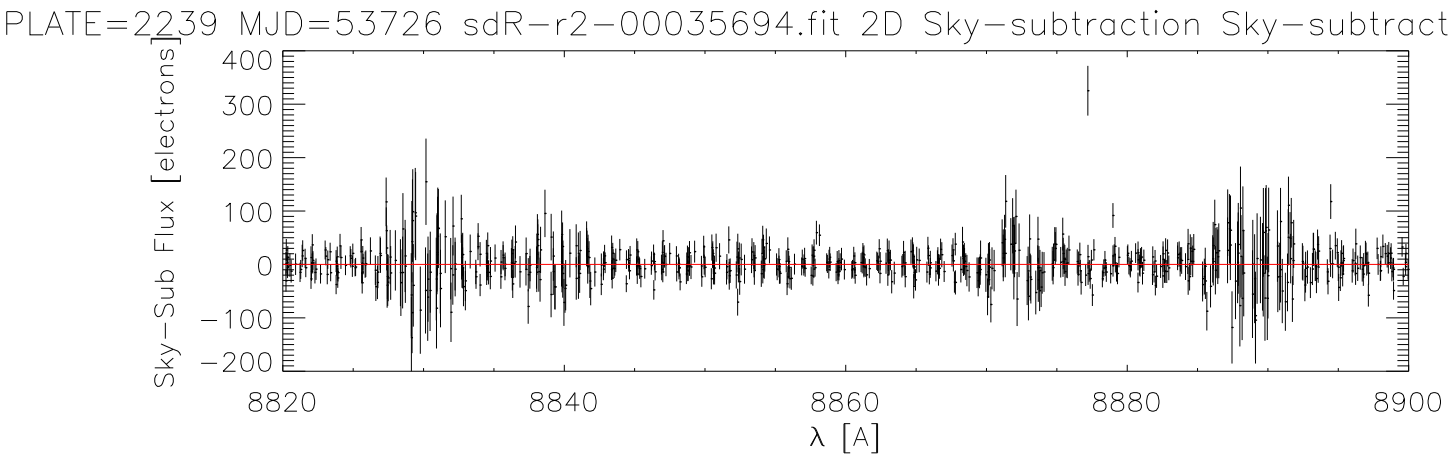

PLATE=2239 MJD=53726 sdR-r2-00035694.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

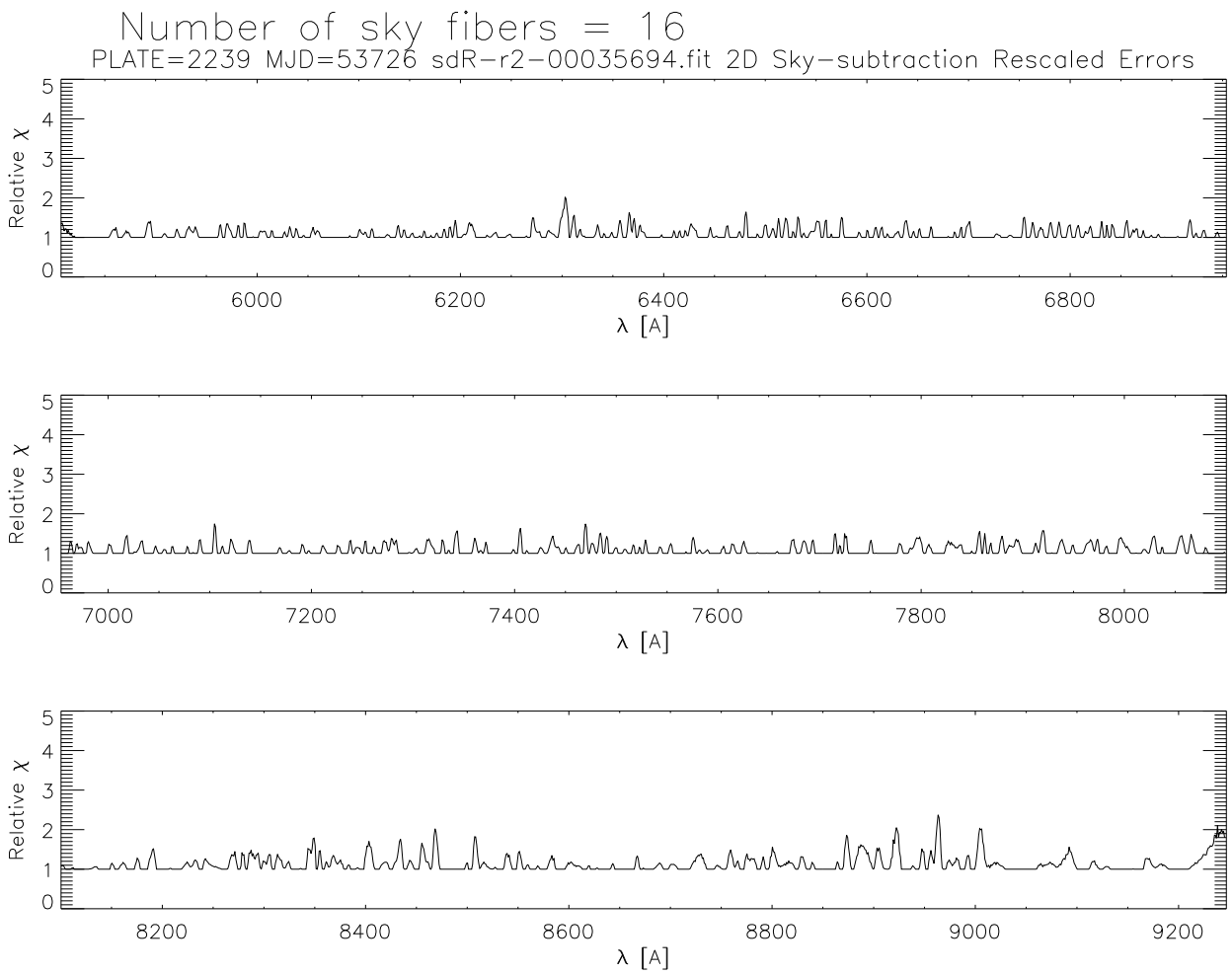

PLATE=2239 MJD=53726 sdR-r2-00035694.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

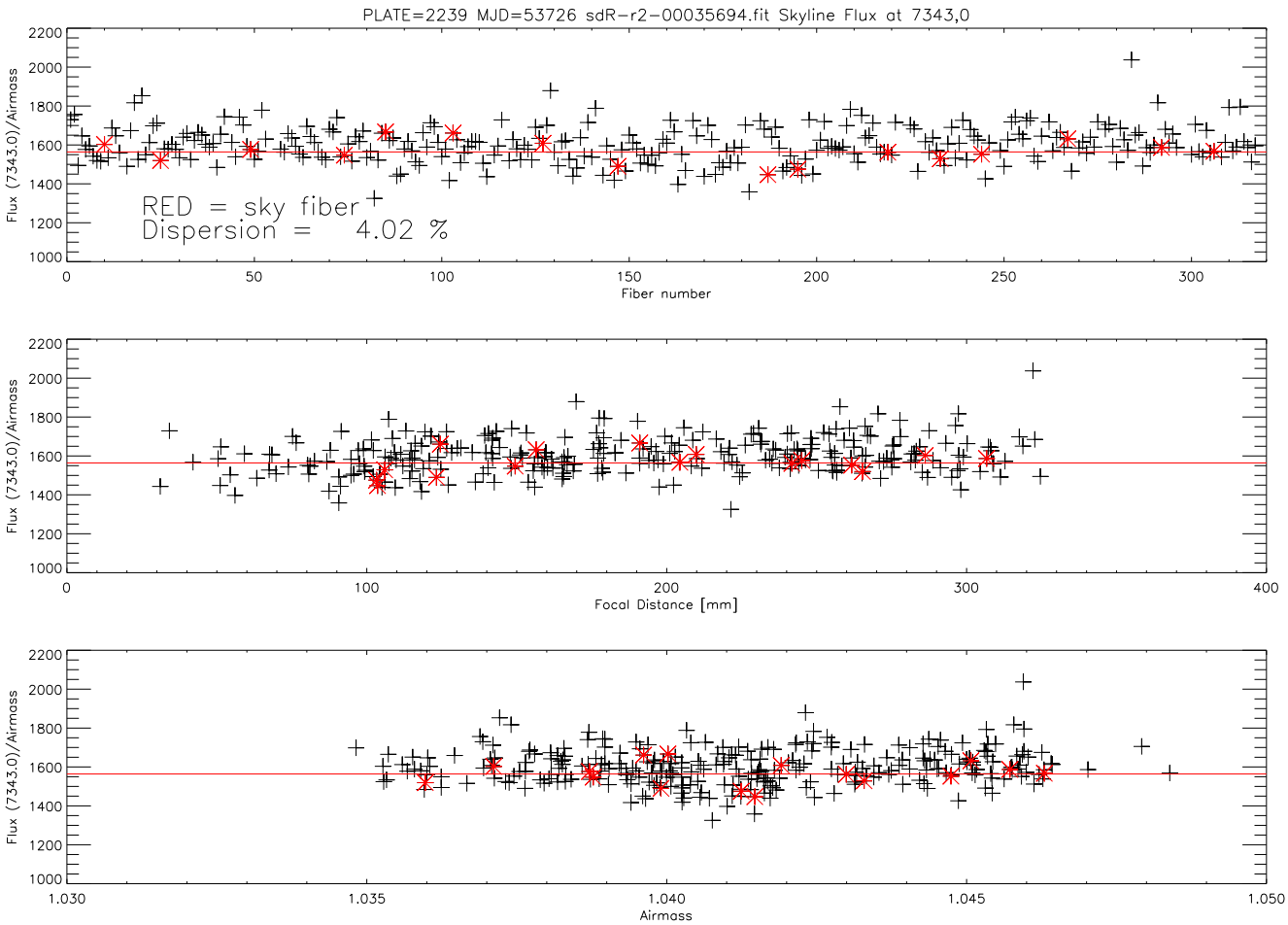

Number of sky fibers = 16
PLATE=2239 MJD=53726 sdR-r2-00035694.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

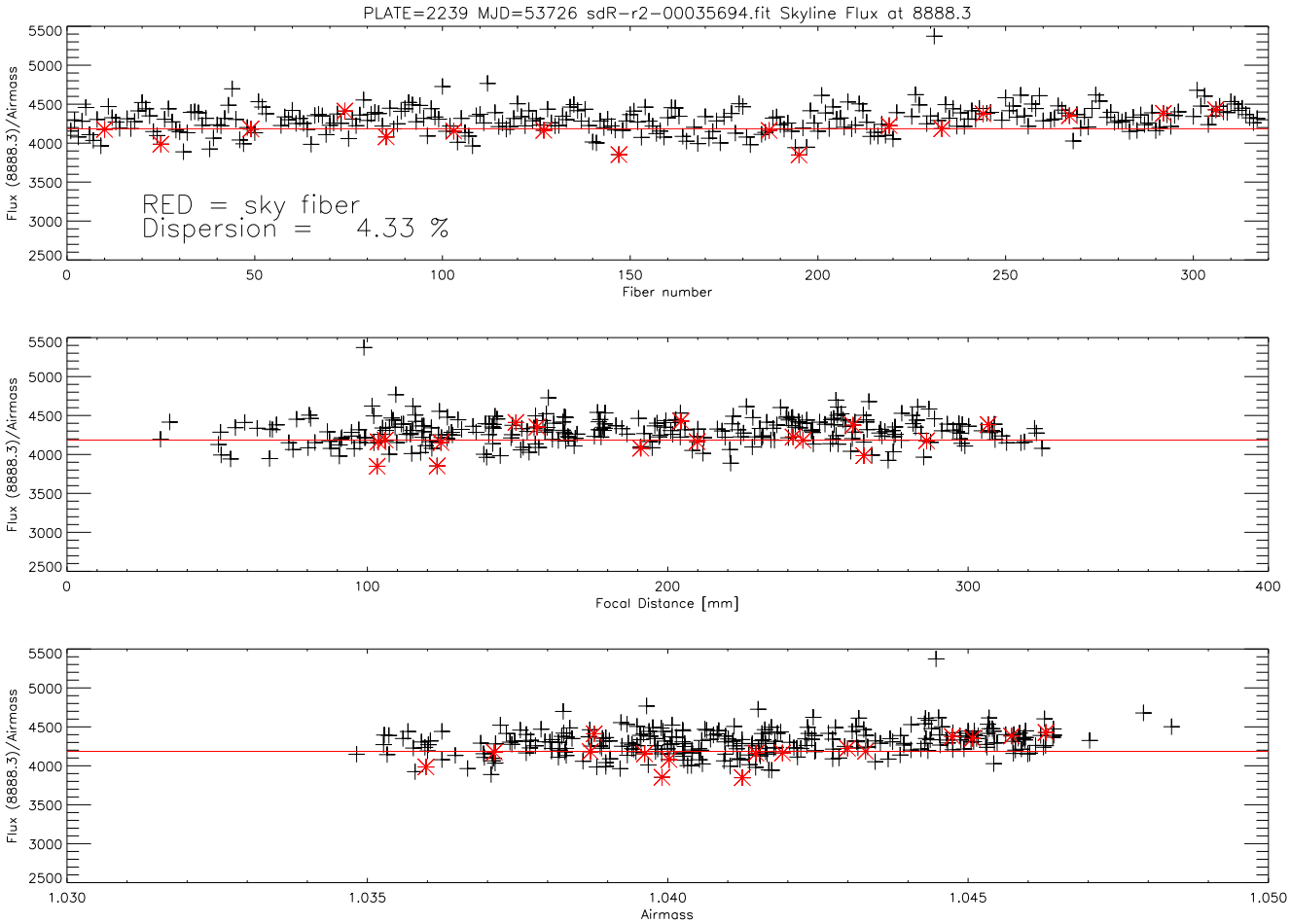

PLATE=2239 MJD=53726 sdR-r2-00035694.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=2239 MJD=53726 sdR-r2-00035694.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=2239 MJD=53726 sdR-r2-00035694.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 16
PLATE=2239 MJD=53726 sdR-r2-00035694.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=2239 MJD=53726 sdR-r2-00035694.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.02 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2239 MJD=53726 sdR-r2-00035694.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.33 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass