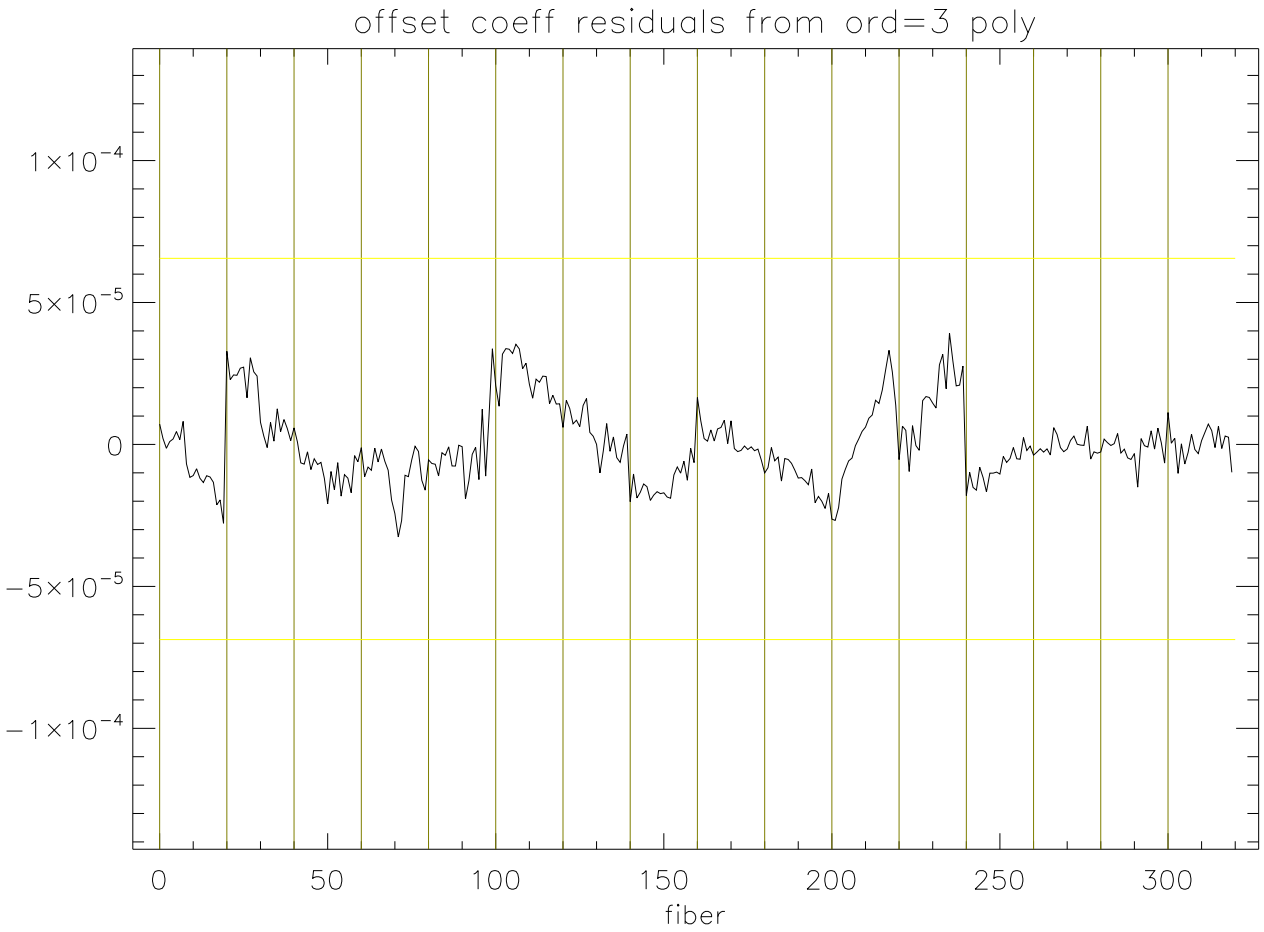
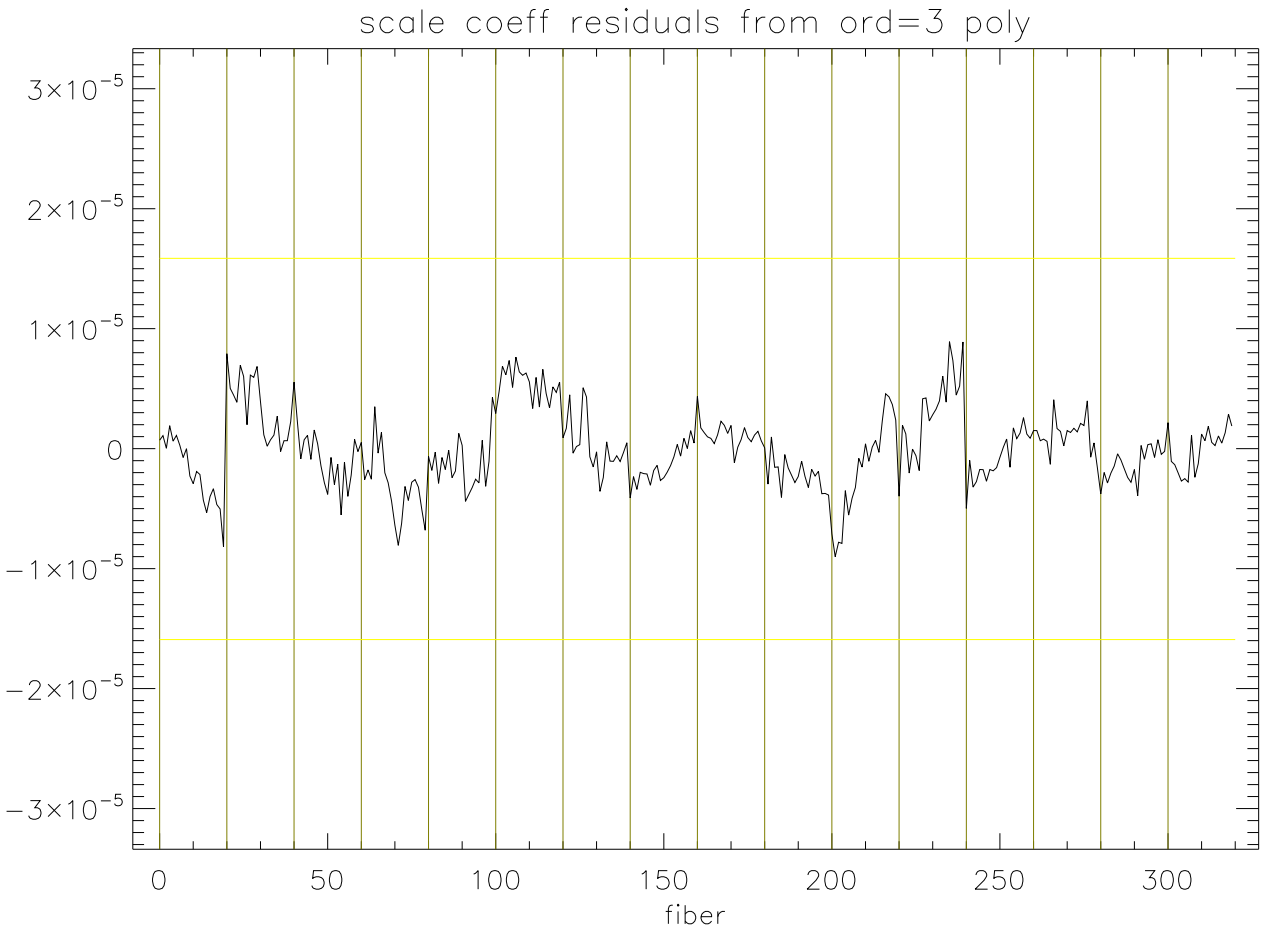
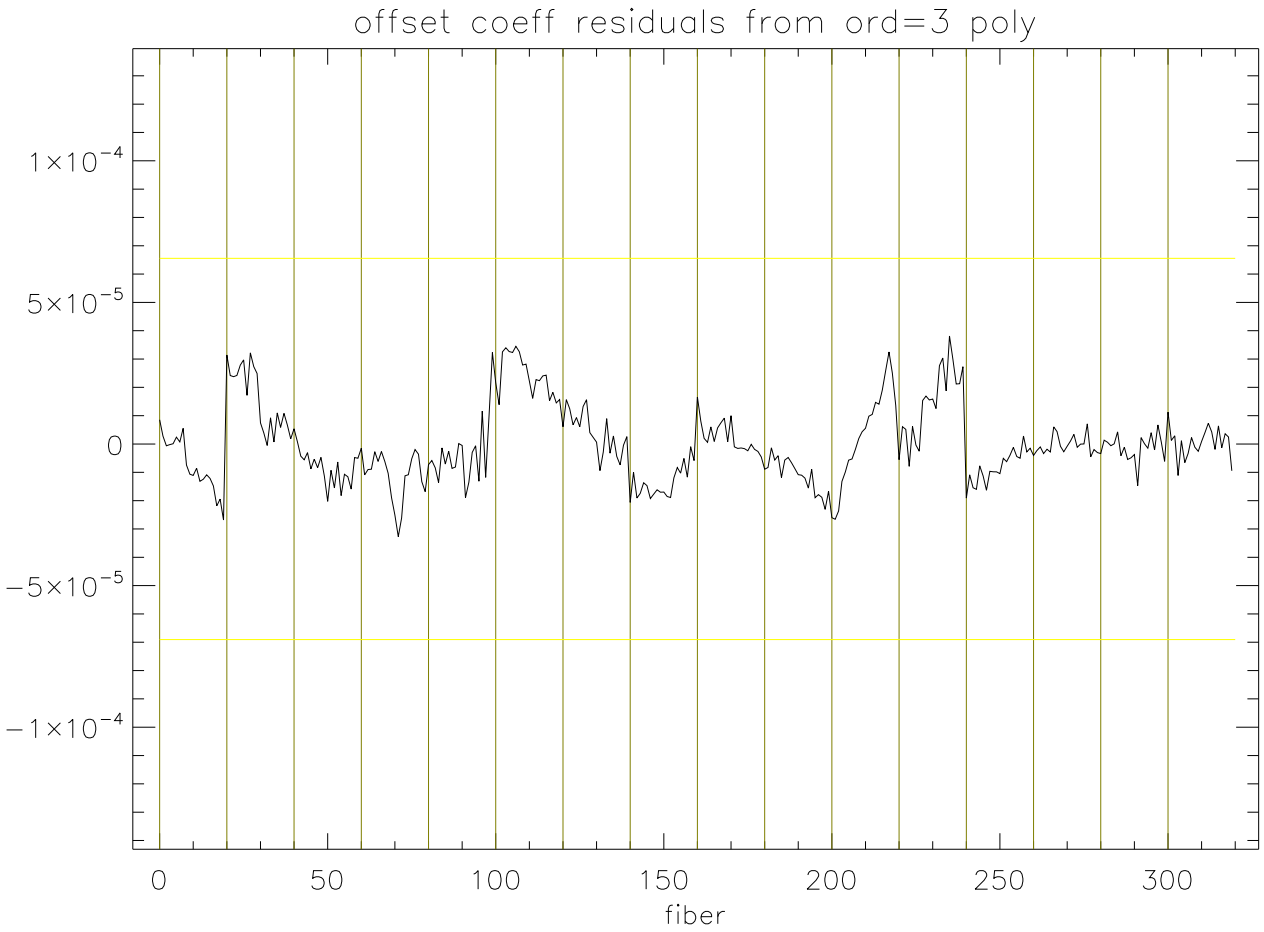
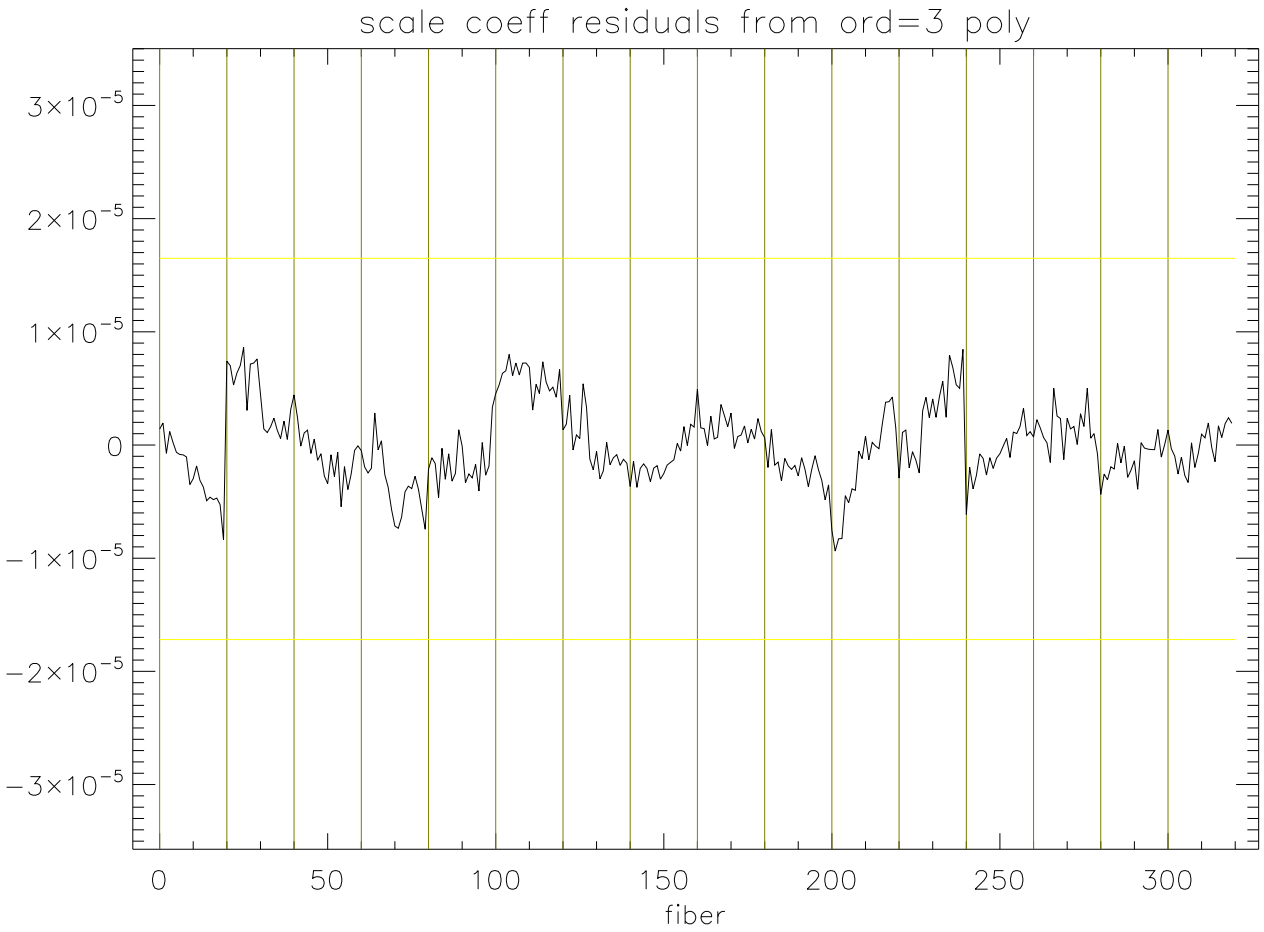
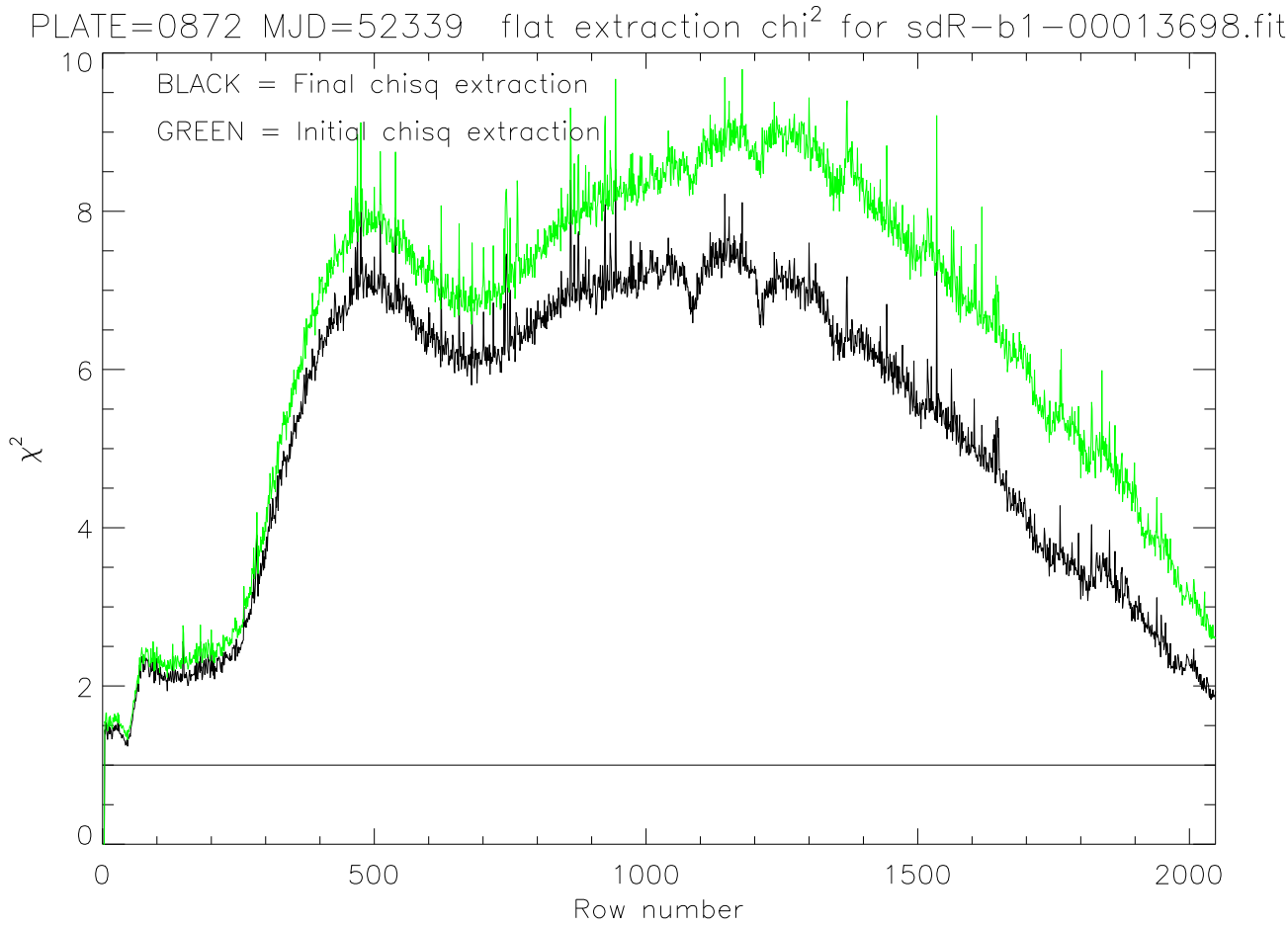
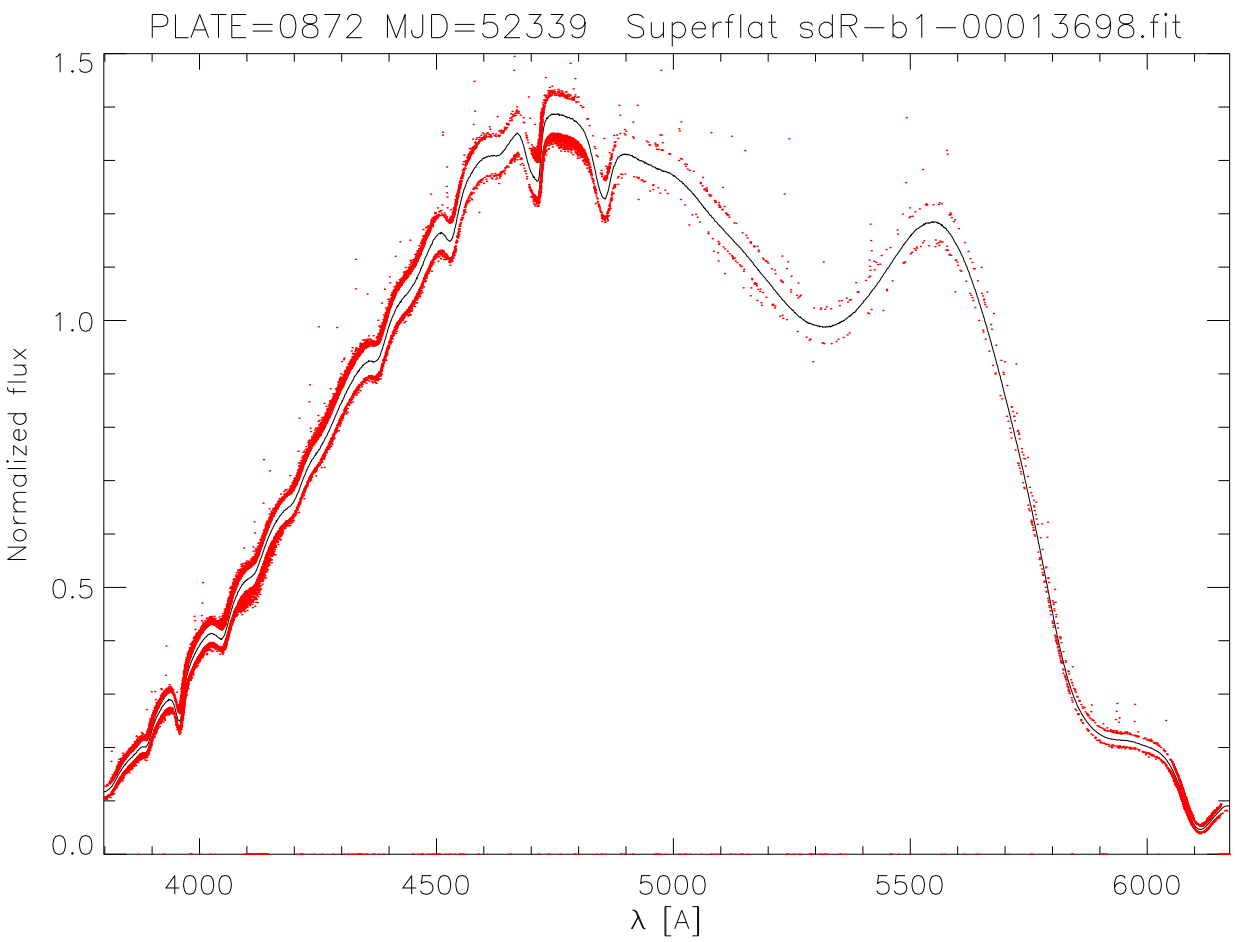

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

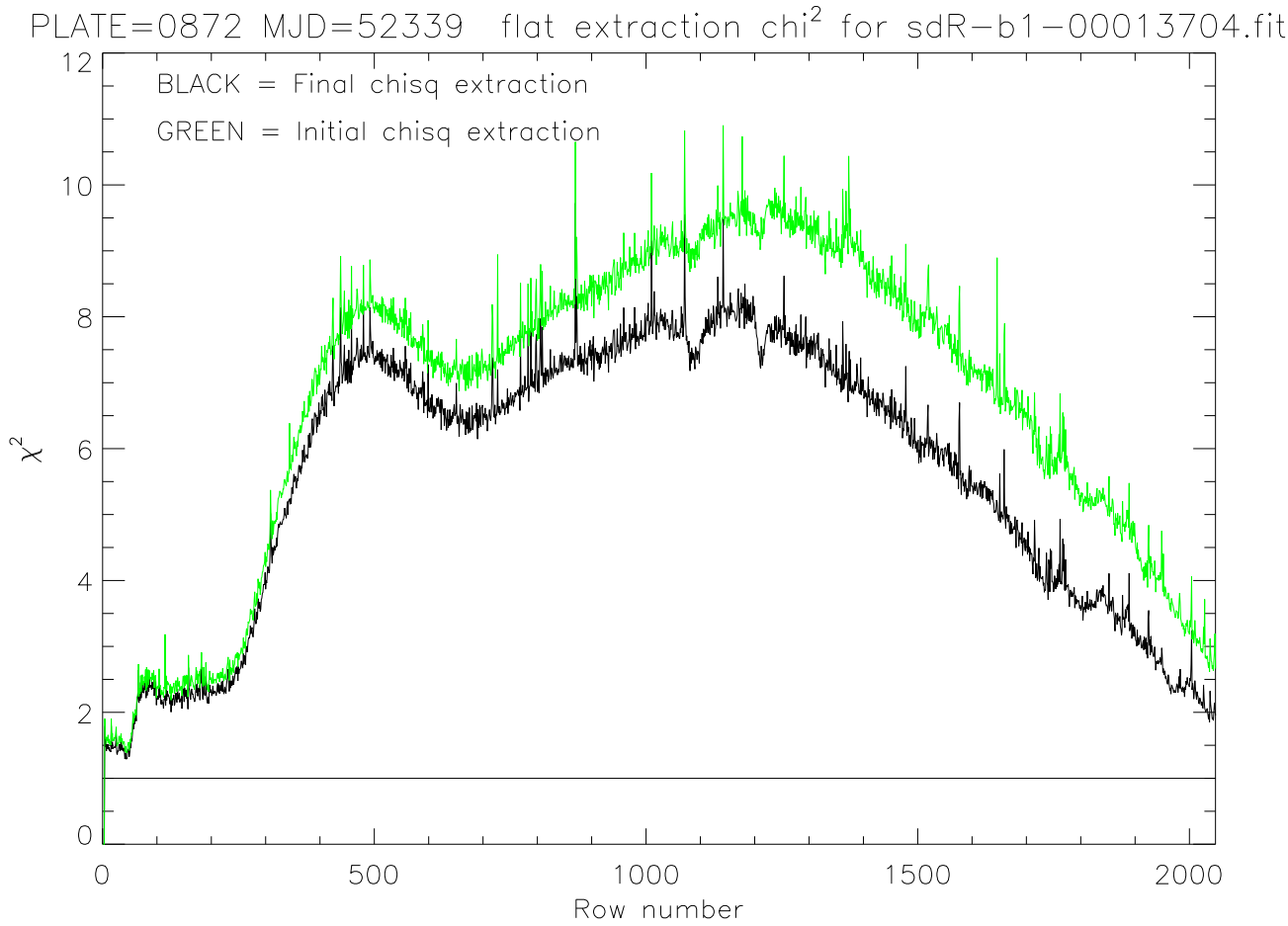

scale coeff residuals from ord=3 poly
3×10^-5
2×10^-5
1×10^-5
0
−1×10^-5
−2×10^-5
−3×10^-5
0
50
100
150
200
250
300
fiber

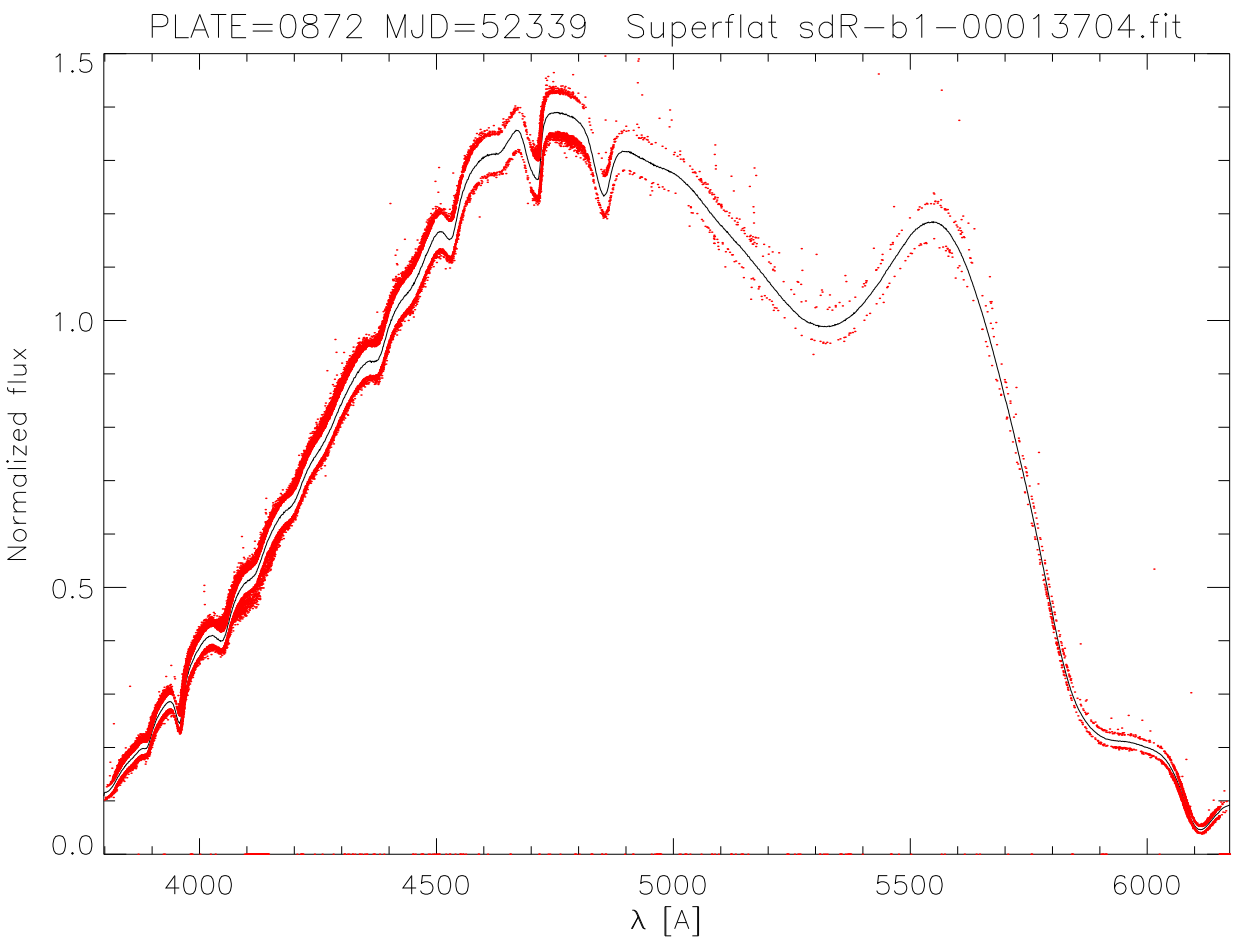

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

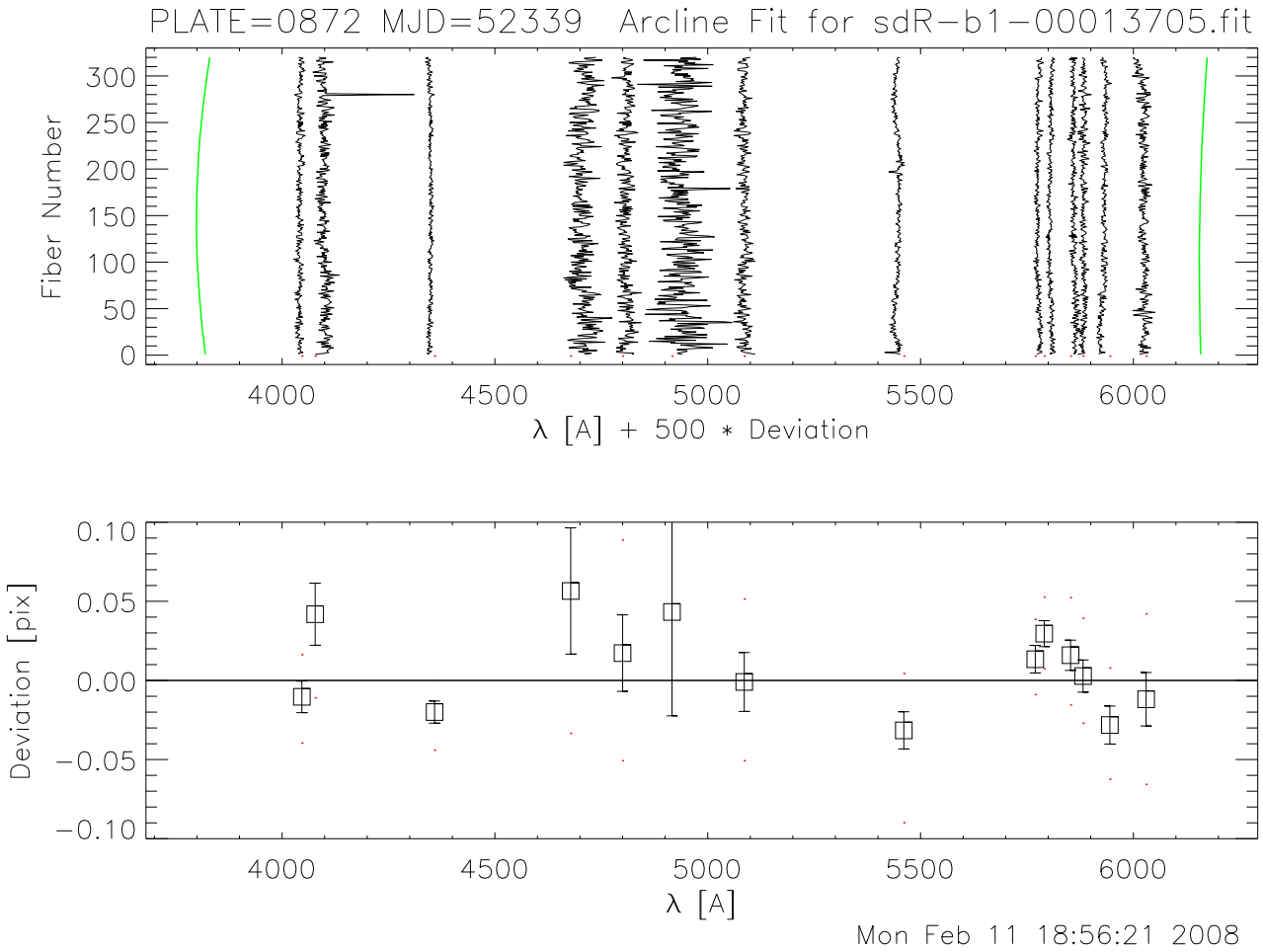

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

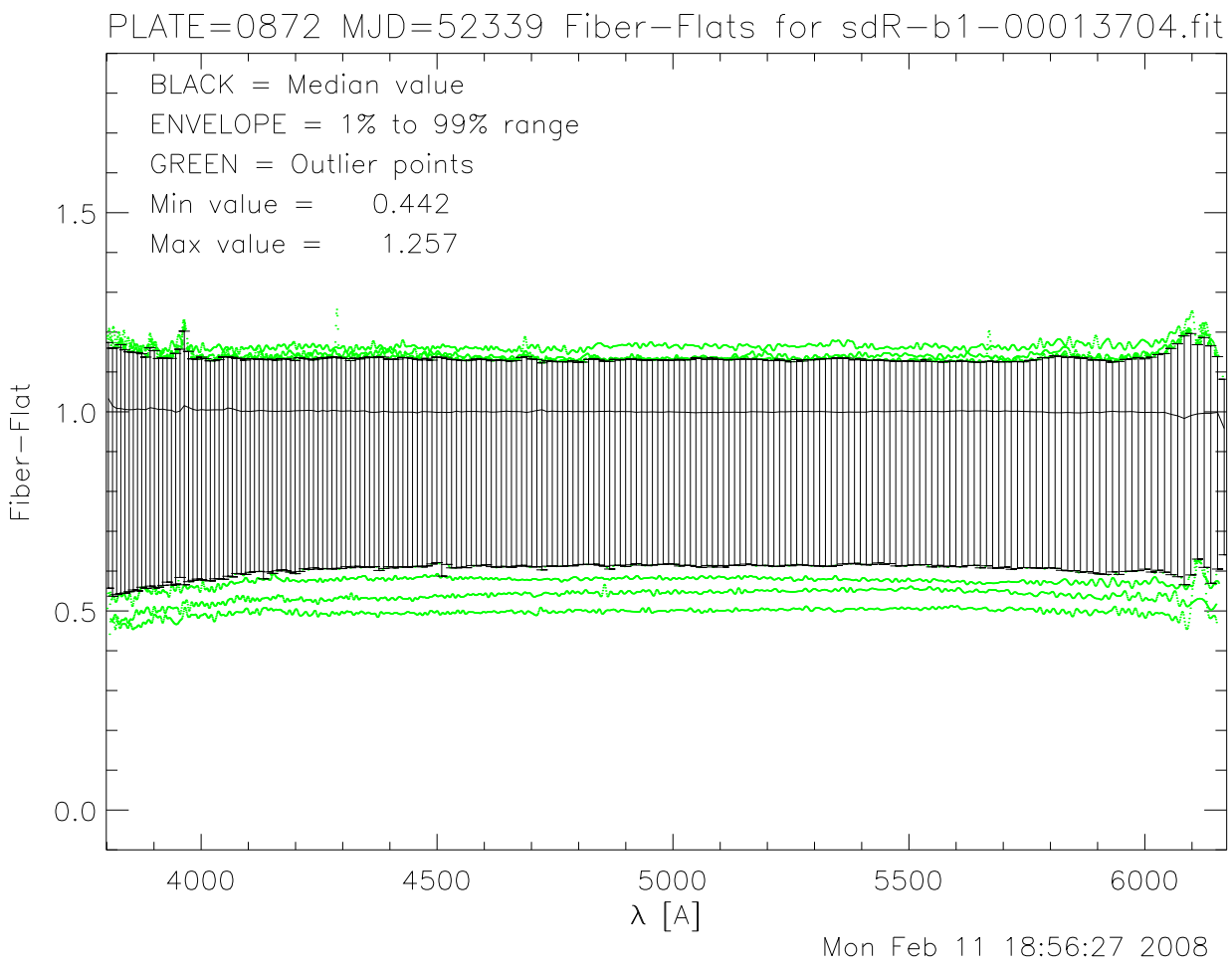

PLATE=0872 MJD=52339 flat extraction chi^2 for sdR−b1−00013698.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

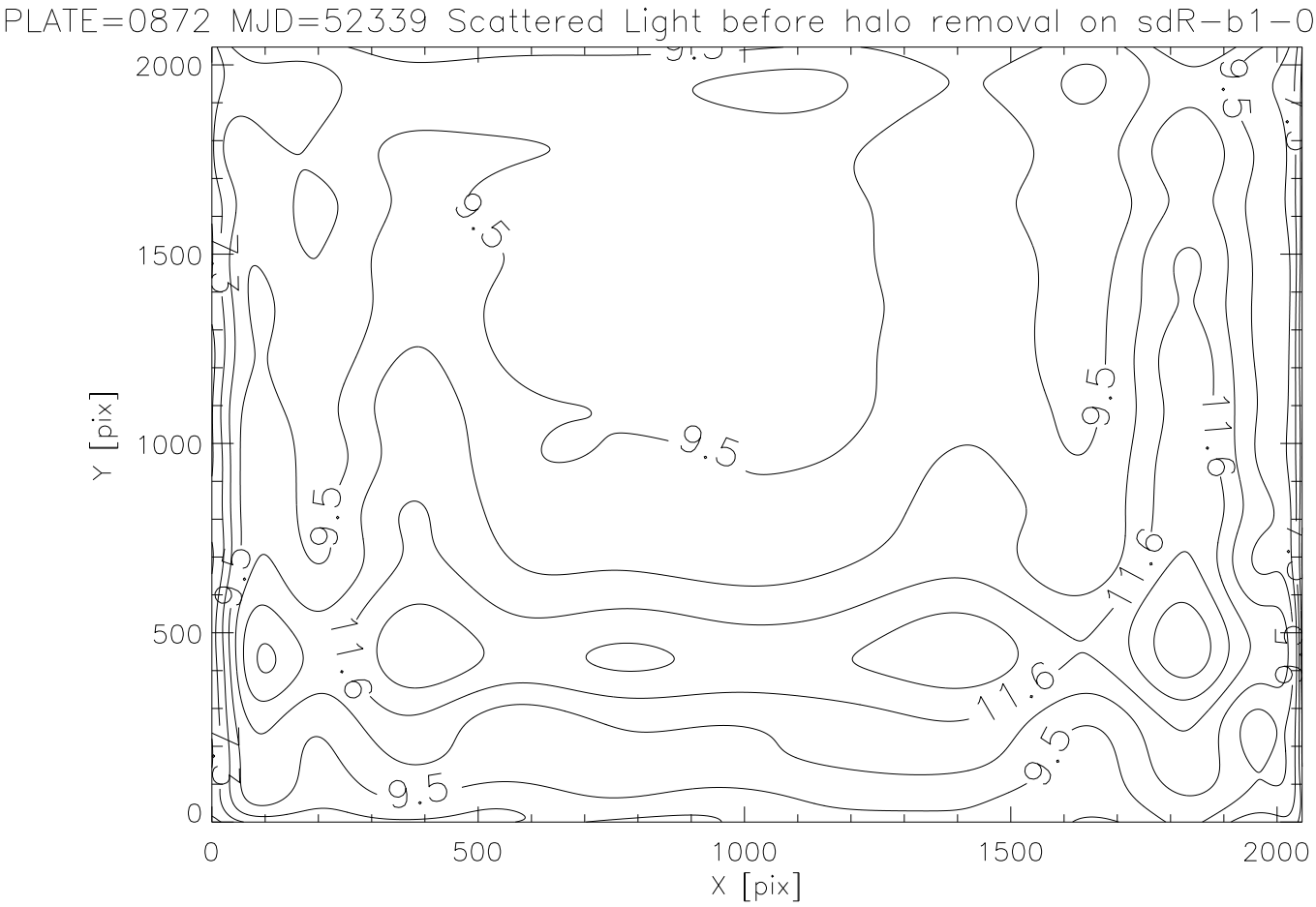

PLATE=0872 MJD=52339 Superflat sdR-b1-00013698.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

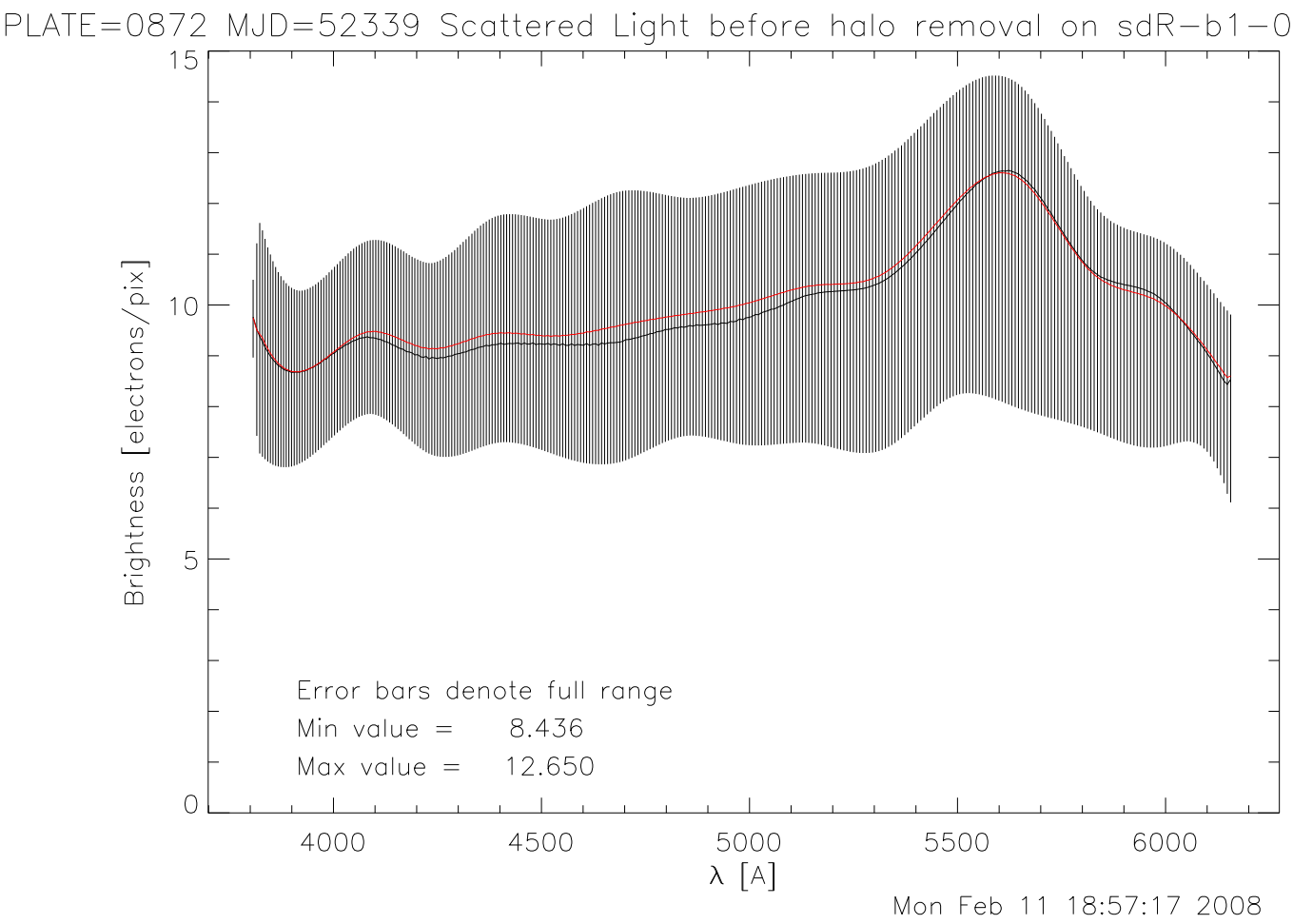

PLATE=0872 MJD=52339 flat extraction chi^2 for sdR−b1−00013704.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

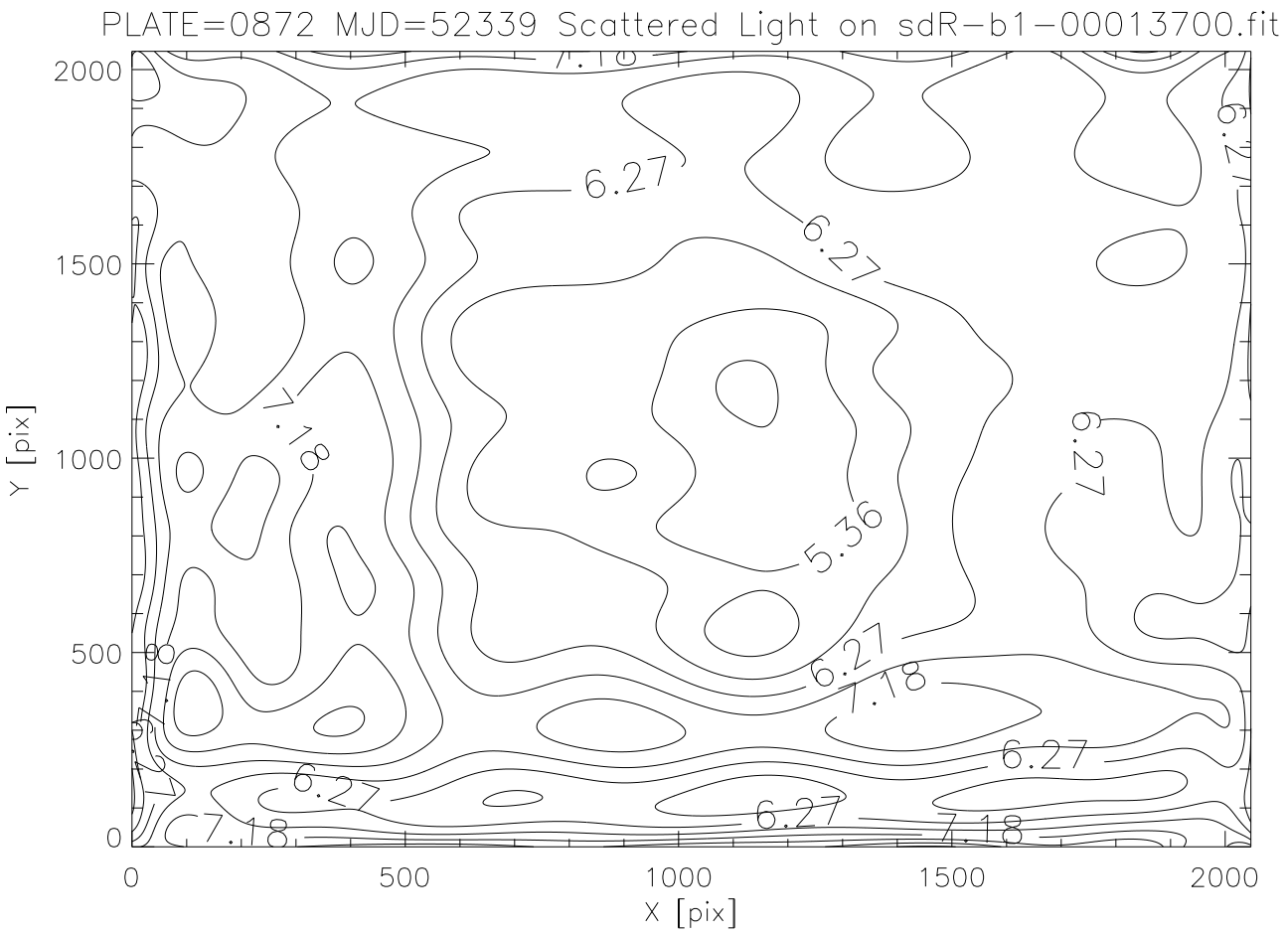

PLATE=0872 MJD=52339 Superflat sdR-b1-00013704.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

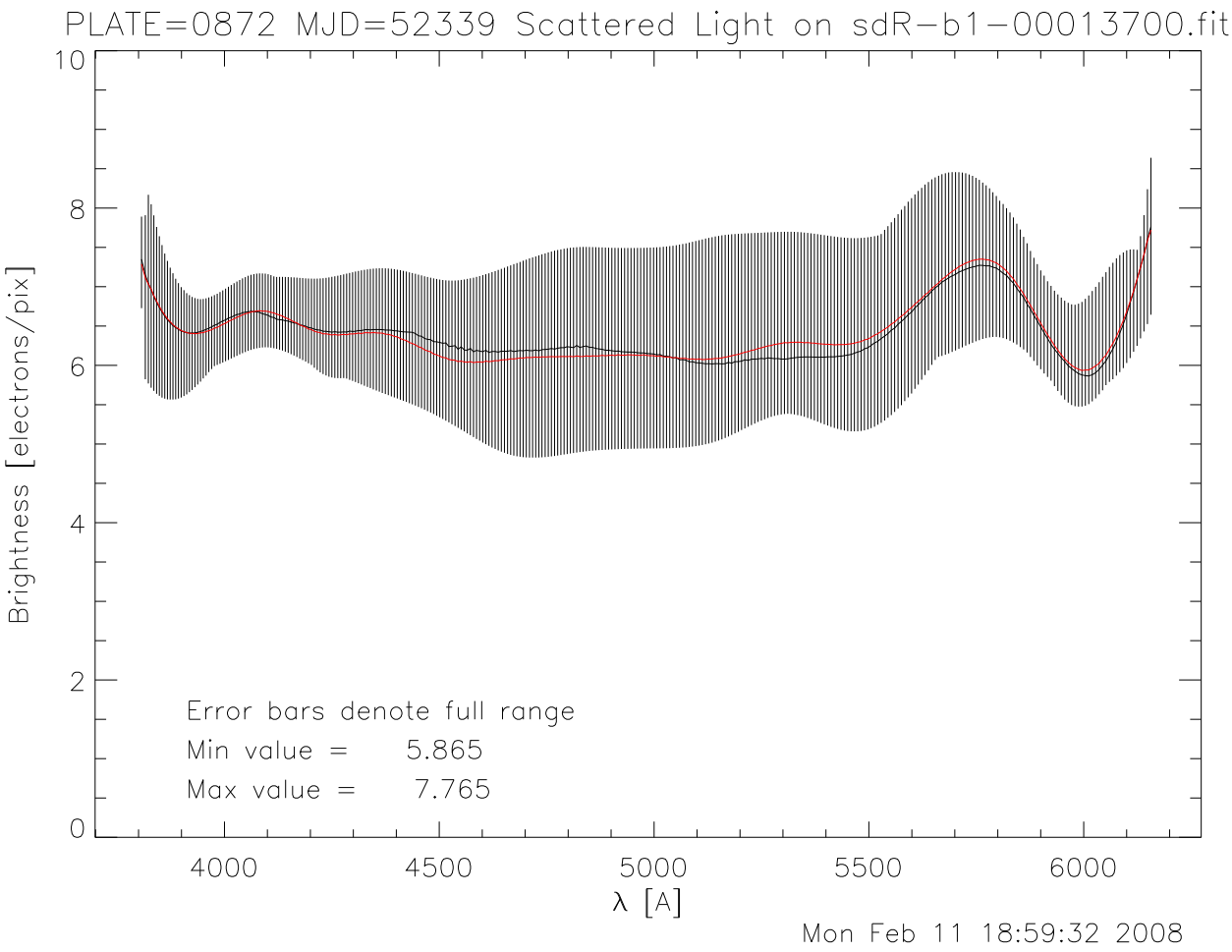

PLATE=0872 MJD=52339 Arcline Fit for sdR-b1-00013705.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 18:56:21 2008

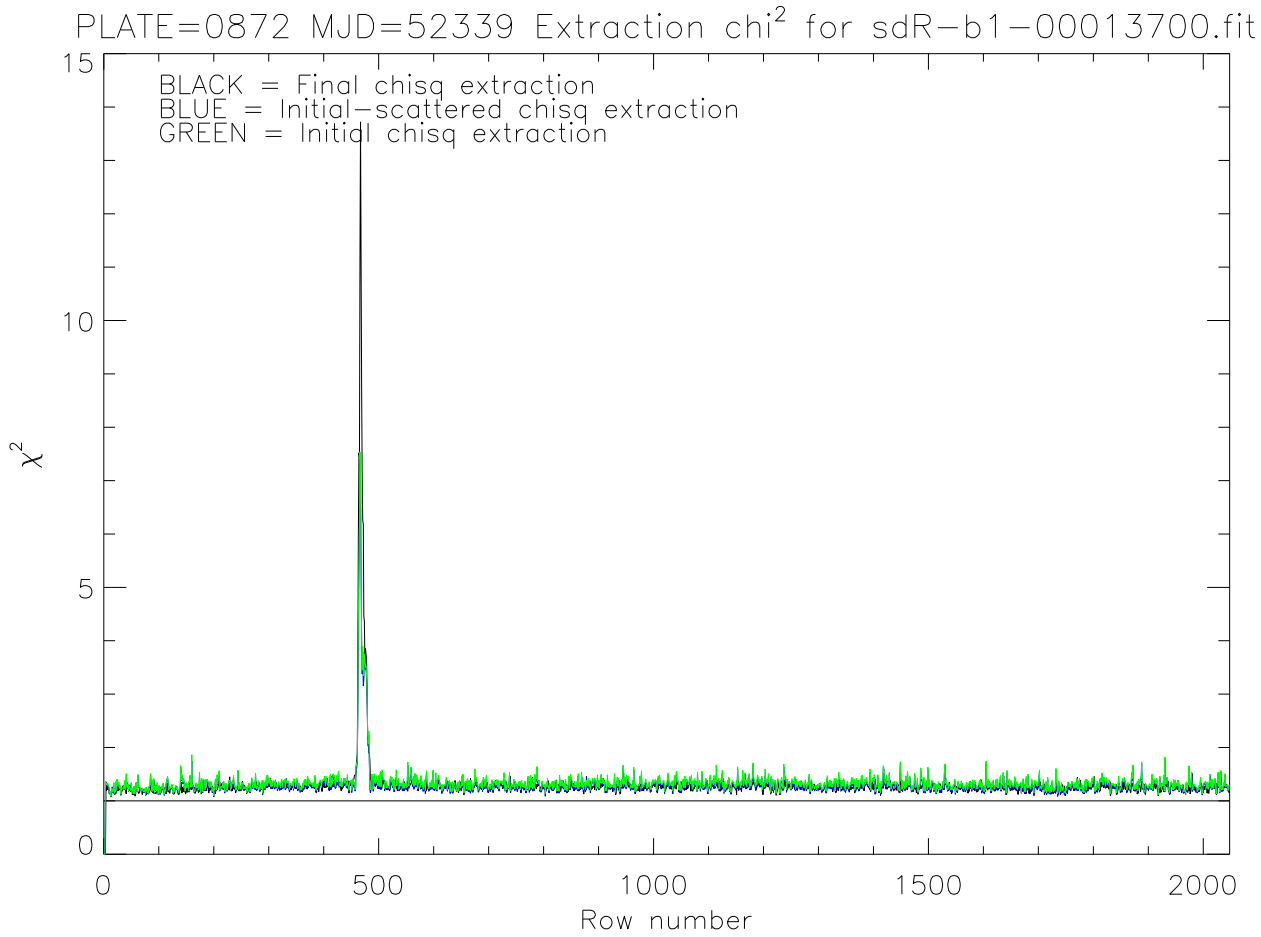

PLATE=0872 MJD=52339 Fiber−Flats for sdR−b1−00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.442
Max value = 1.257
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 18:56:27 2008

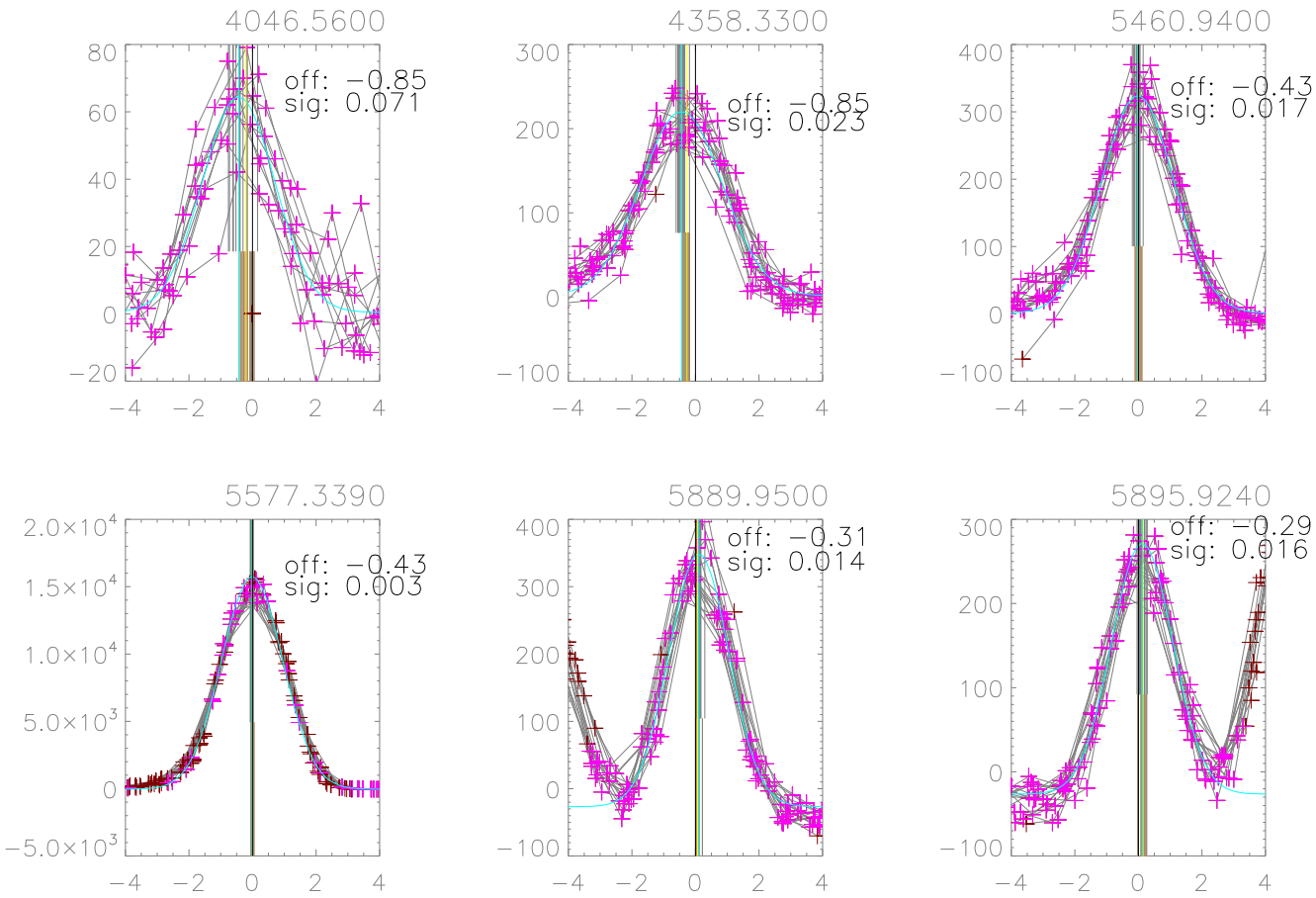

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR−b1−00013700.f
Y [pix]
X [pix]
0
500
1000
1500
2000
9.5
11.6

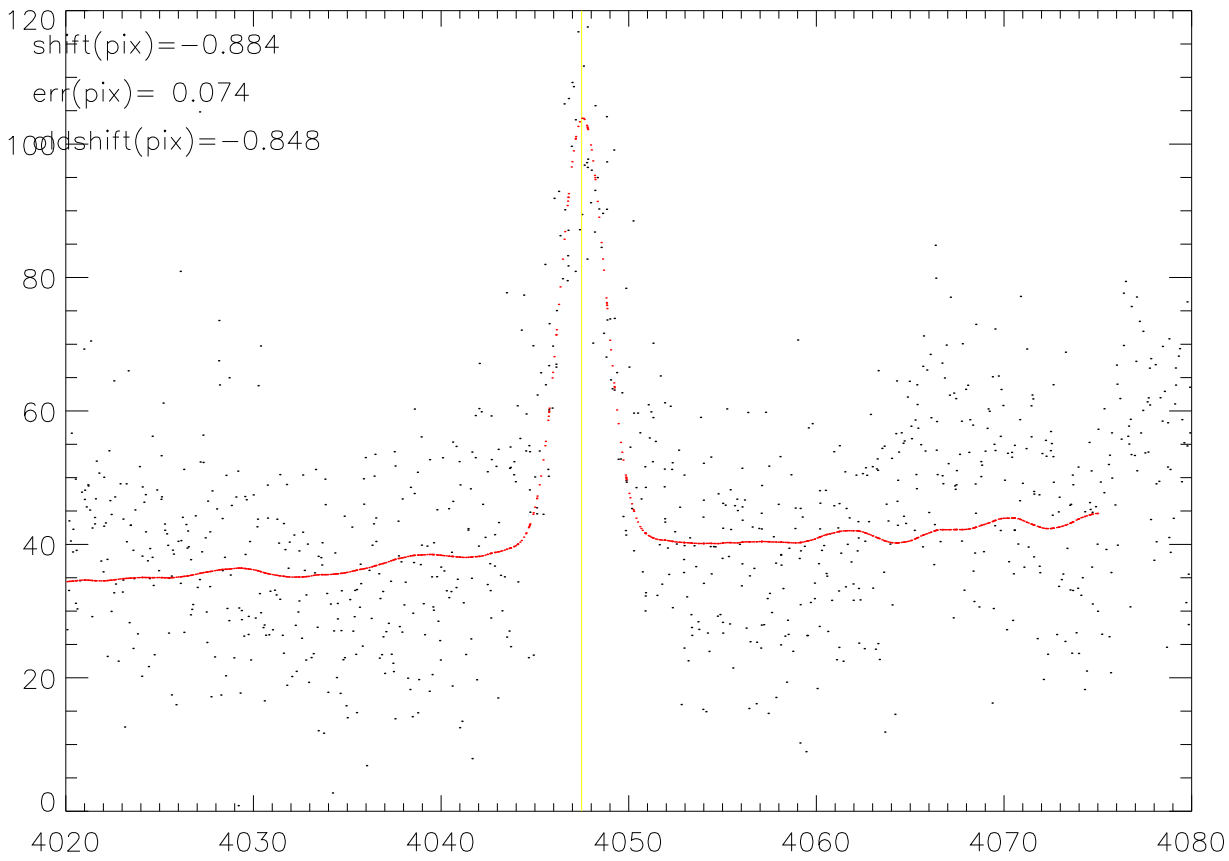

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b1-00013700.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.436
Max value = 12.650
Mon Feb 11 18:57:17 2008

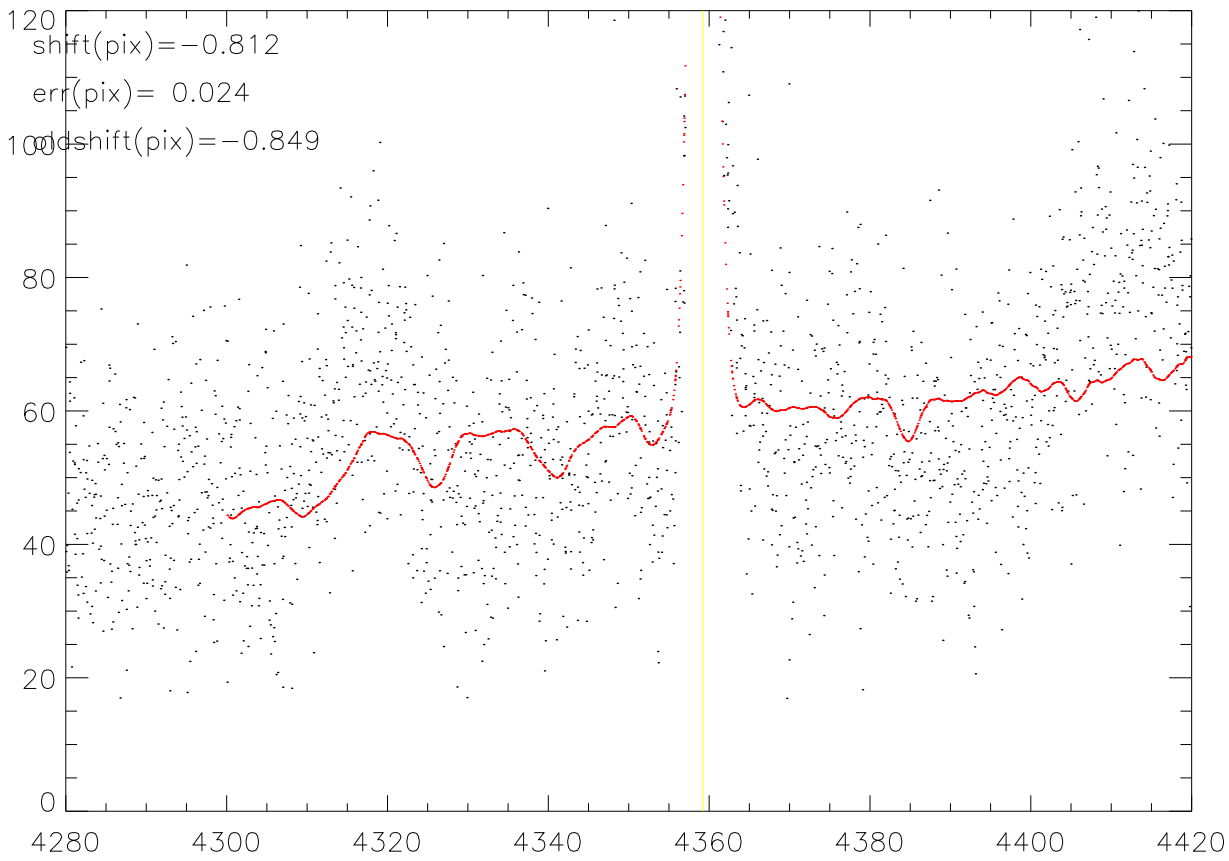

PLATE=0872 MJD=52339 Scattered Light on sdR-b1-00013700.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.27
7.18
5.36

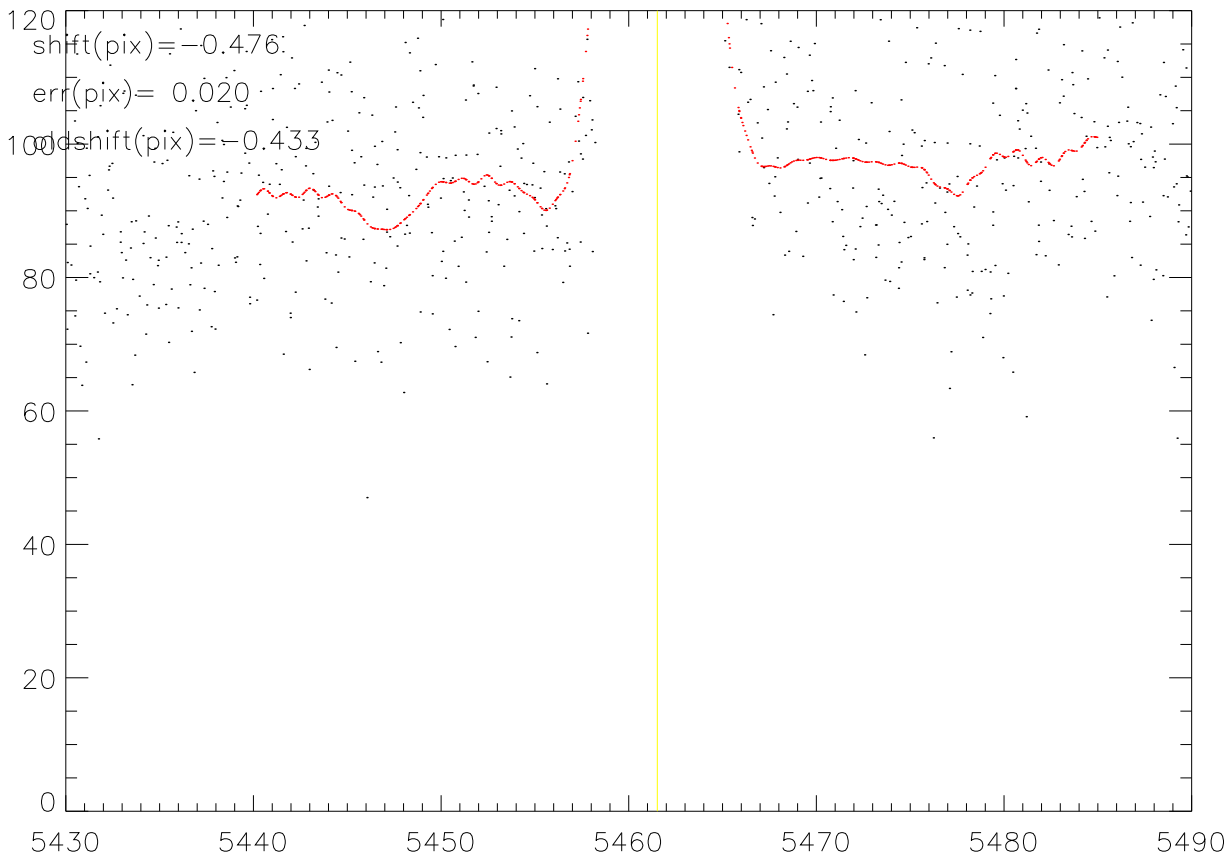

PLATE=0872 MJD=52339 Scattered Light on sdR-b1-00013700.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.865
Max value = 7.765
Mon Feb 11 18:59:32 2008

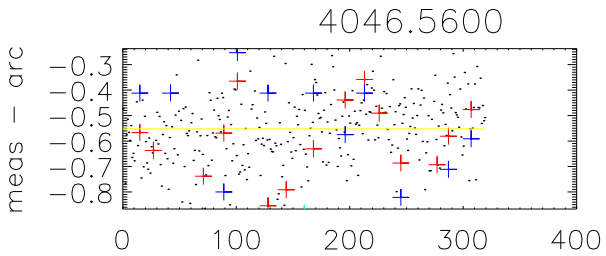

PLATE=0872 MJD=52339 Extraction chi^2 for sdR-b1-00013700.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
15
10
5
0
0
500
1000
1500
2000
Row number

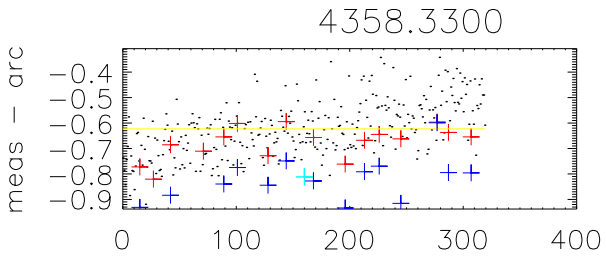

4046.5600
off: −0.85
sig: 0.071
4358.3300
off: −0.85
sig: 0.023
5460.9400
off: −0.43
sig: 0.017
5577.3390
off: −0.43
sig: 0.003
5889.9500
off: −0.31
sig: 0.014
5895.9240
off: −0.29
sig: 0.016

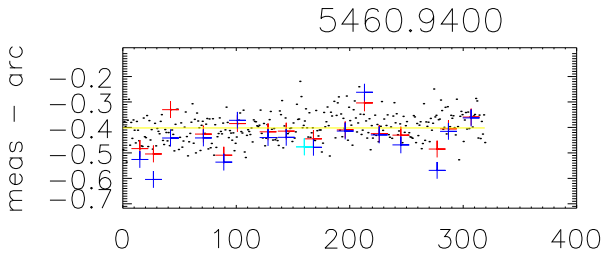

shift(pix)=−0.884
err(pix)= 0.074
oldshift(pix)=−0.848
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

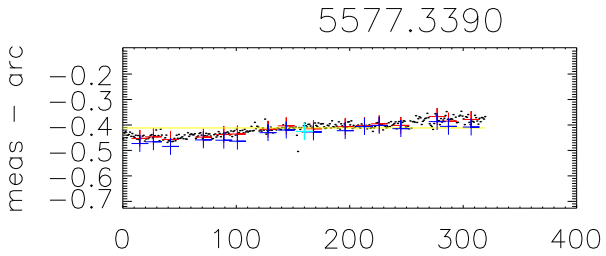

shift(pix)=−0.812
err(pix)= 0.024
oldshift(pix)=−0.849
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

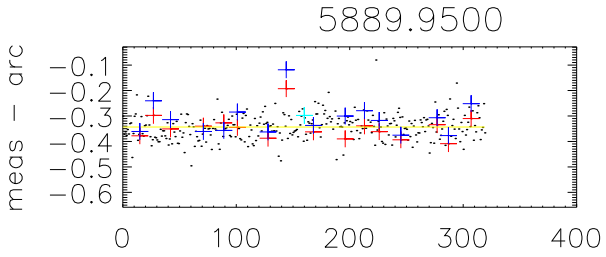

shift(pix)=−0.476
err(pix)= 0.020
oldshift(pix)=−0.433
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

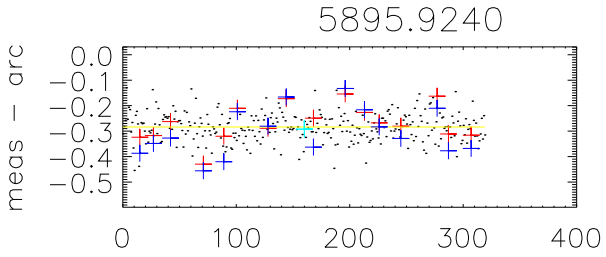

4046.5600
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

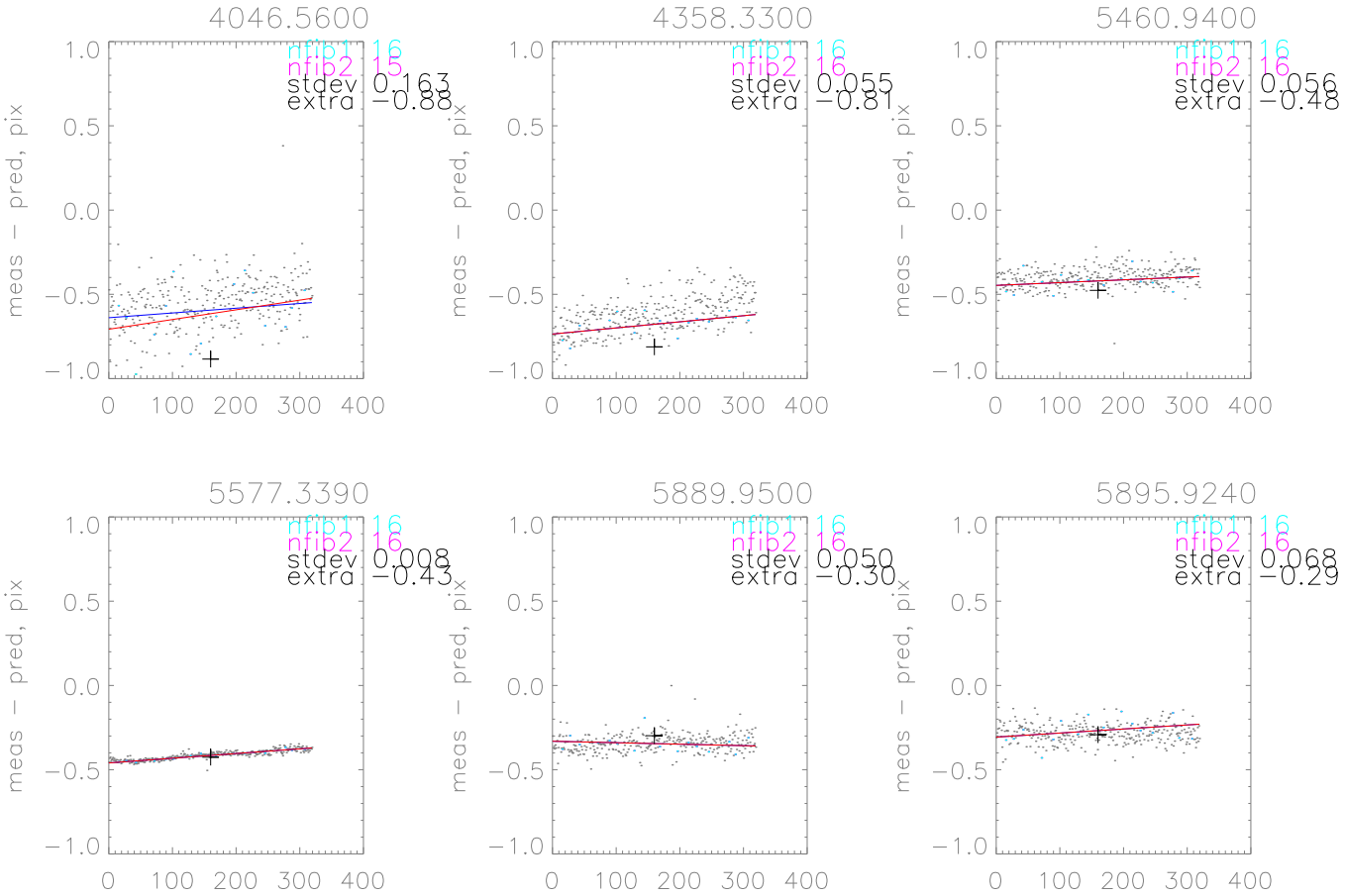

4358.3300
meas − arc
−0.4
−0.5
−0.6
−0.7
−0.8
−0.9
0
100
200
300
400

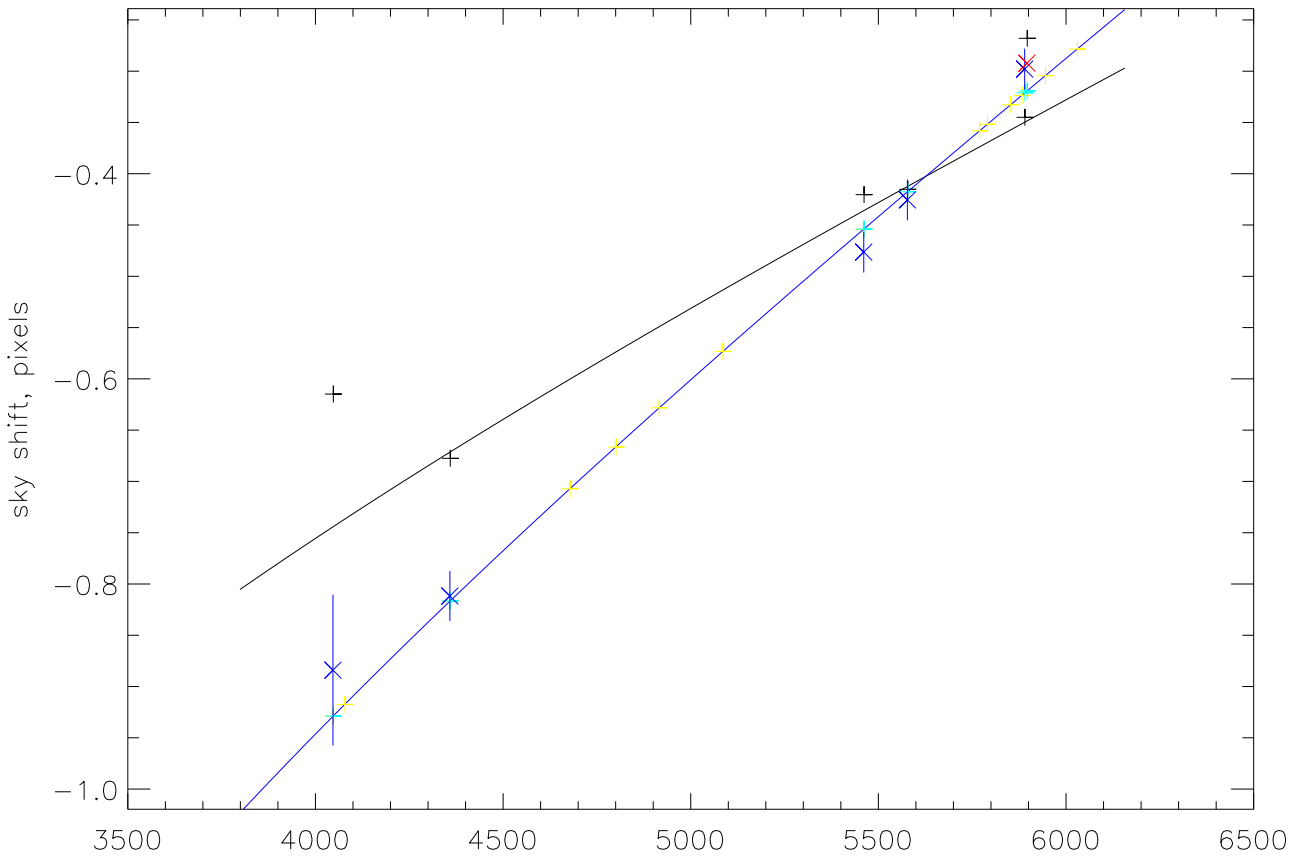

5460.9400
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

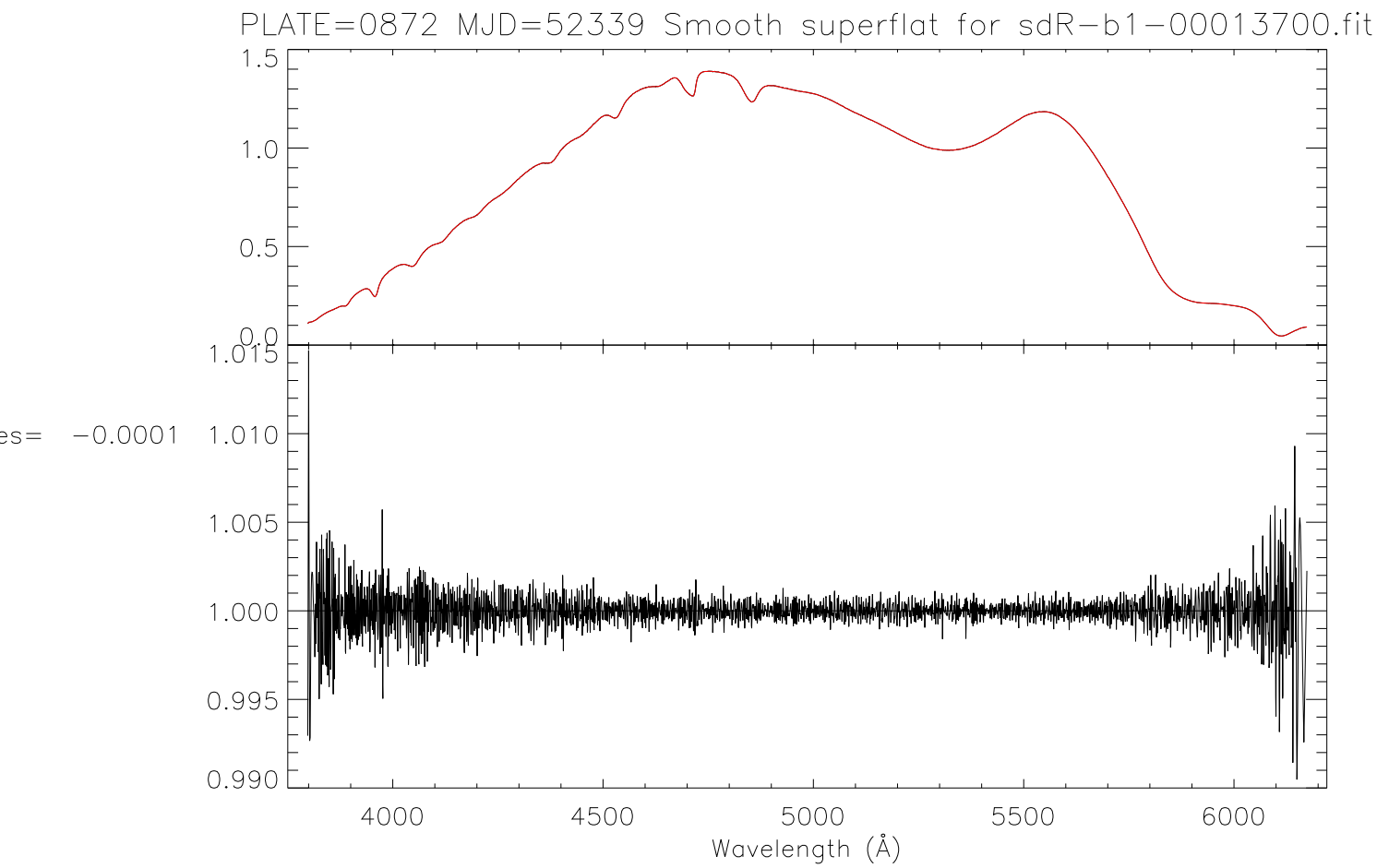

5577.3390
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400


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

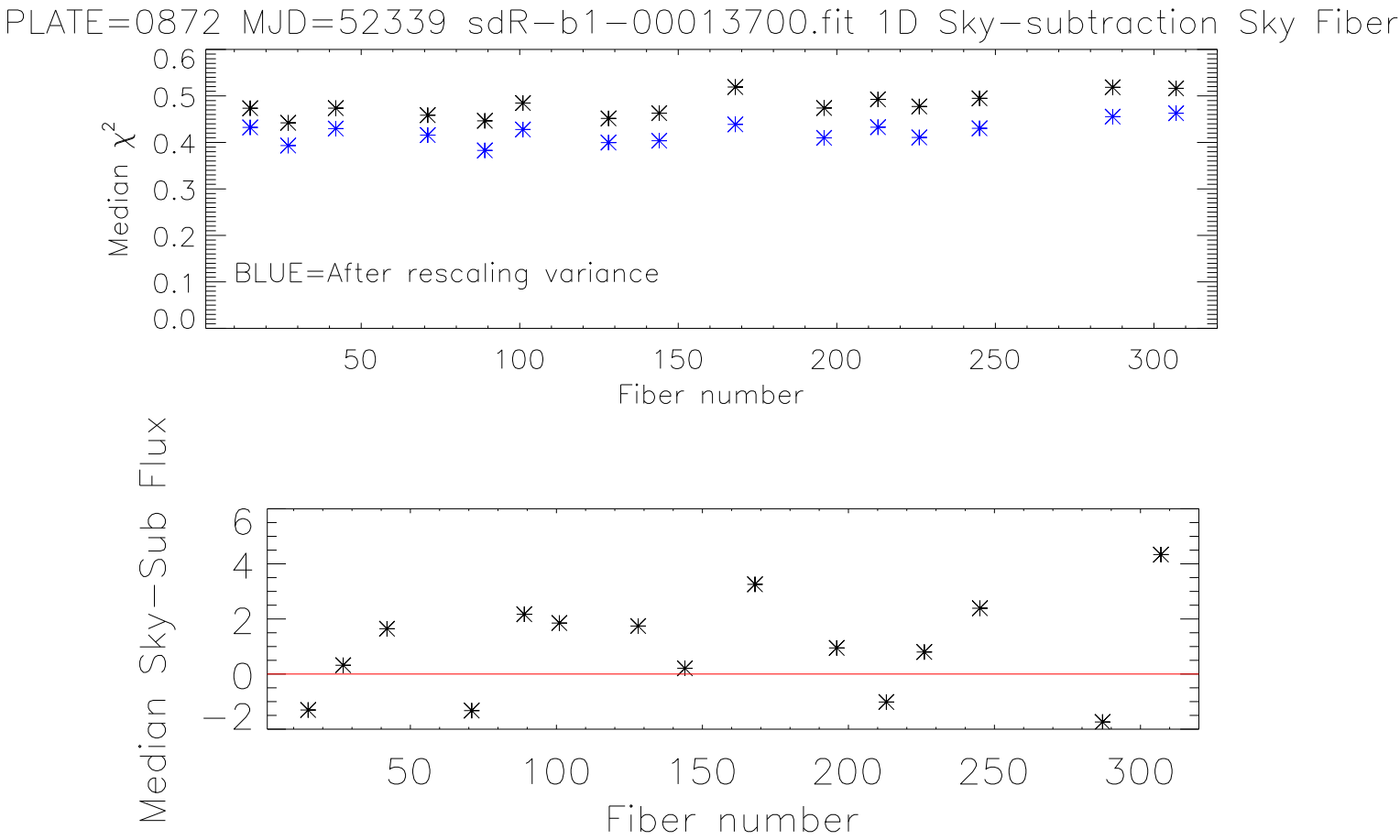

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

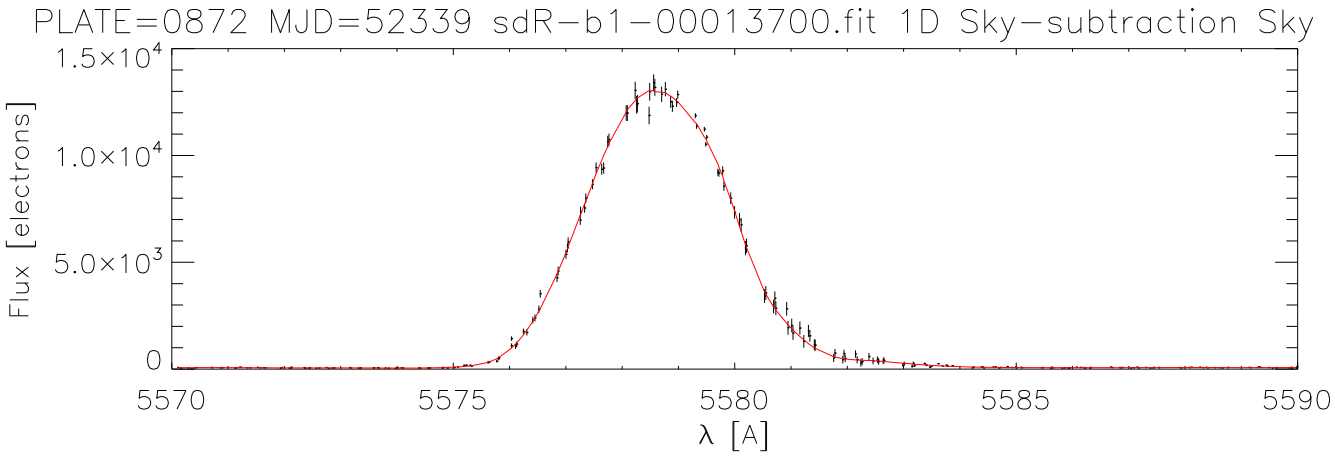

4046.5600
nfib1 16
nfib2 15
stdev 0.163
extra −0.88
4358.3300
nfib1 16
nfib2 16
stdev 0.055
extra −0.81
5460.9400
nfib1 16
nfib2 16
stdev 0.056
extra −0.48
5577.3390
nfib1 16
nfib2 16
stdev 0.008
extra −0.43
5889.9500
nfib1 16
nfib2 16
stdev 0.050
extra −0.30
5895.9240
nfib1 16
nfib2 16
stdev 0.068
extra −0.29
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

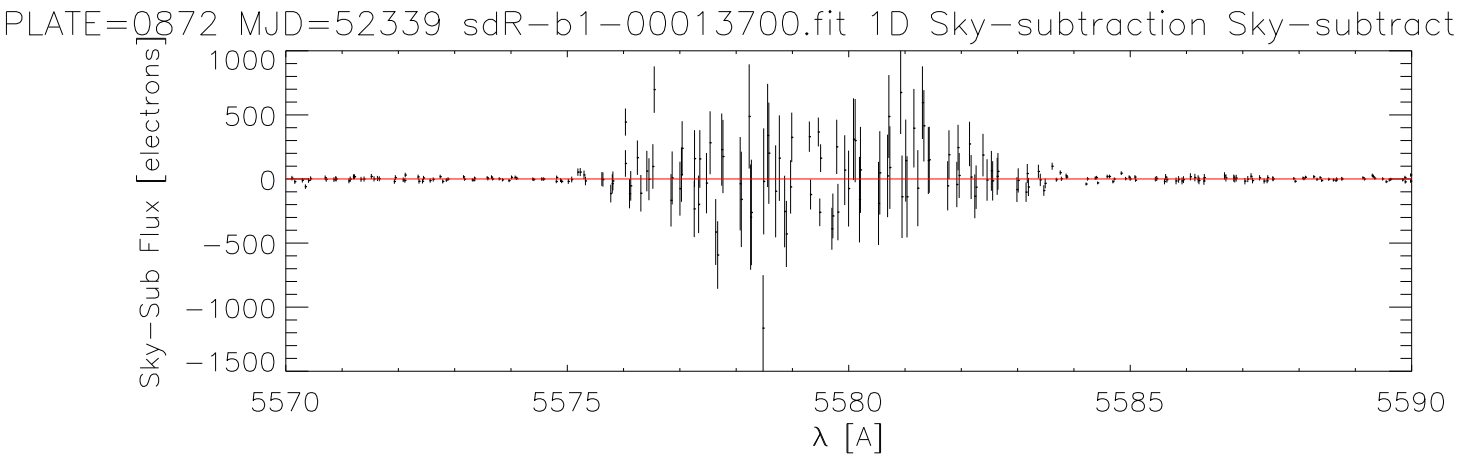

sky shift, pixels
−0.4
−0.6
−0.8
−1.0
3500
4000
4500
5000
5500
6000
6500

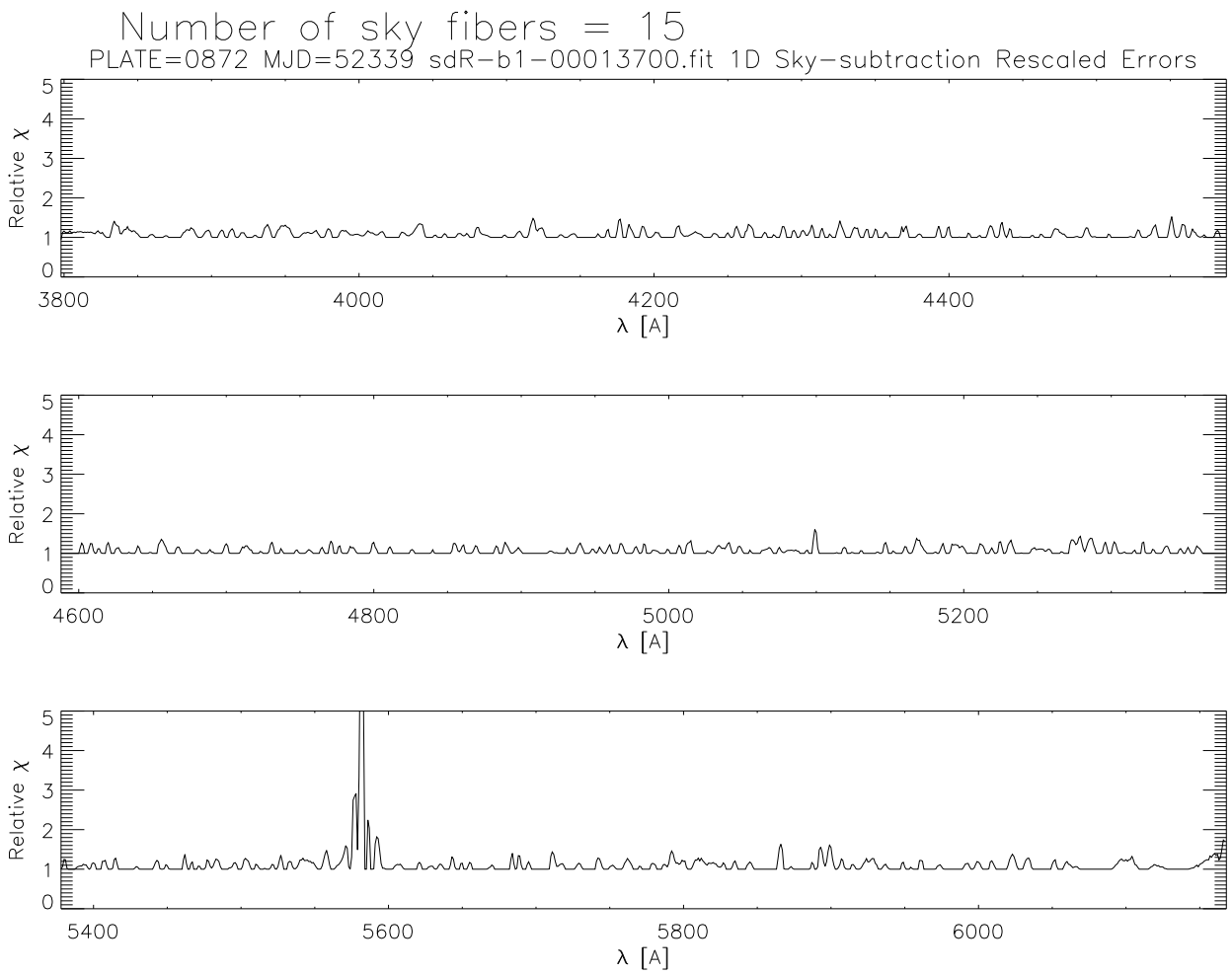

PLATE=0872 MJD=52339 Smooth superflat for sdR-b1-00013700.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

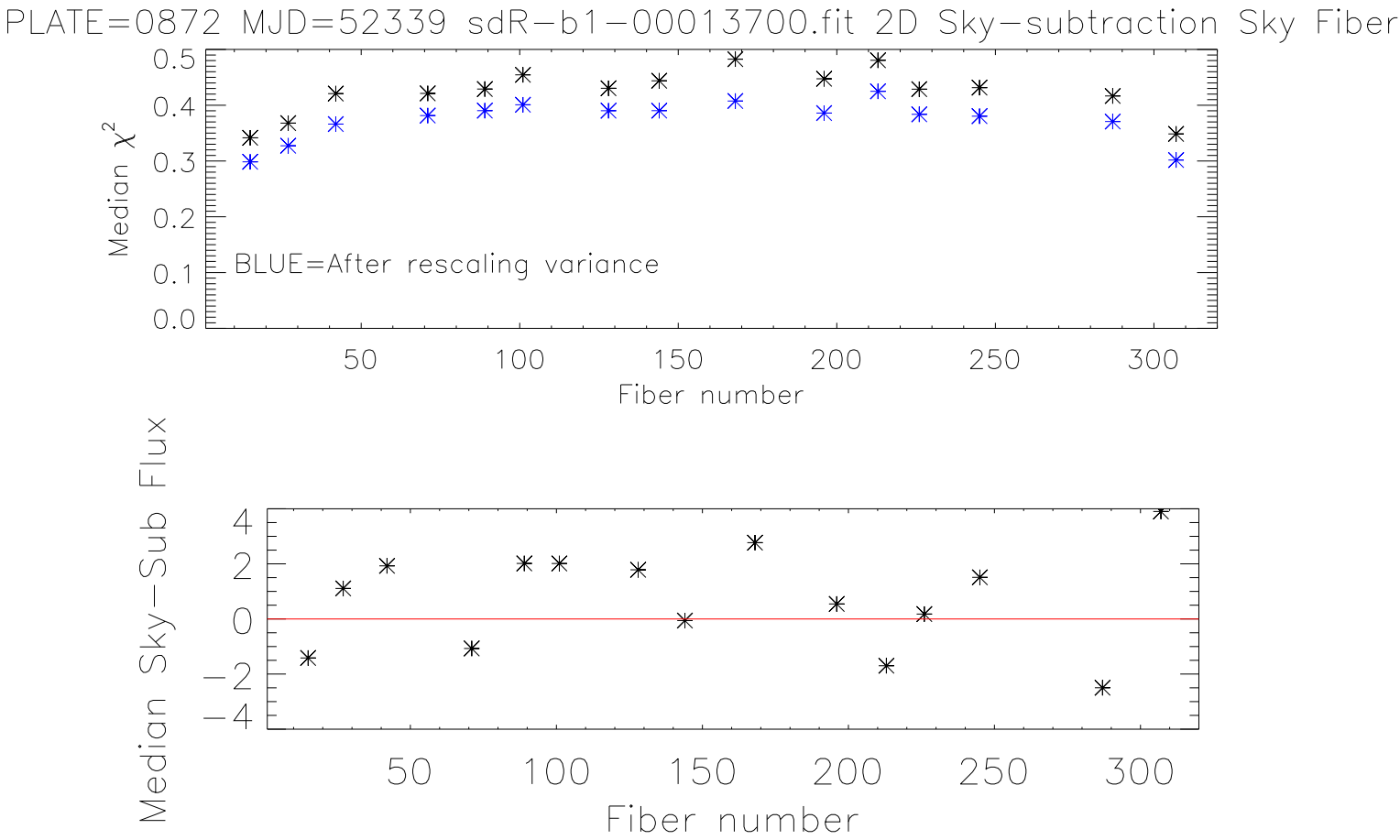
es= −0.0001

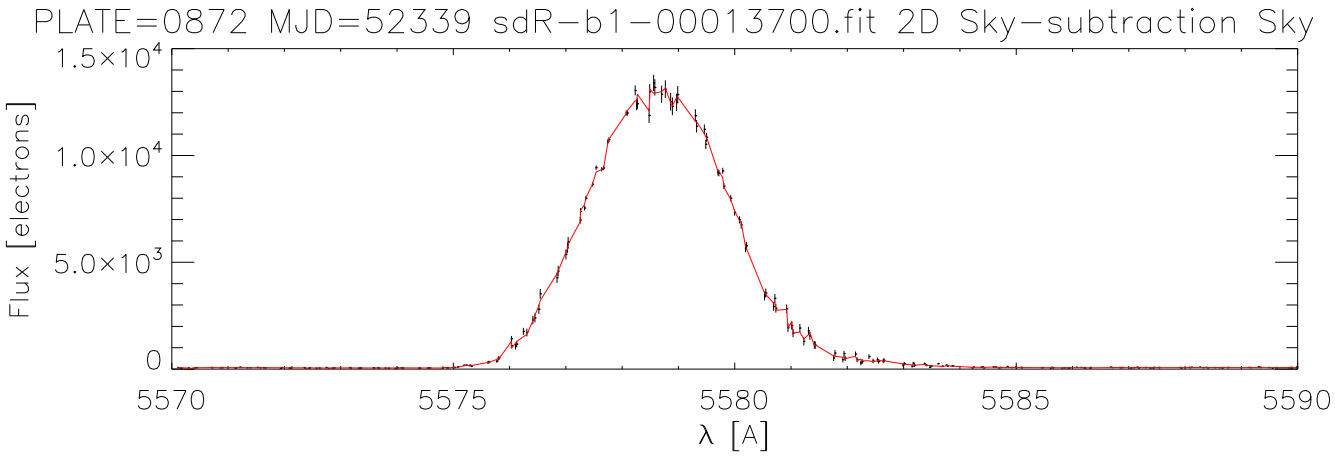

PLATE=0872 MJD=52339 sdR-b1-00013700.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

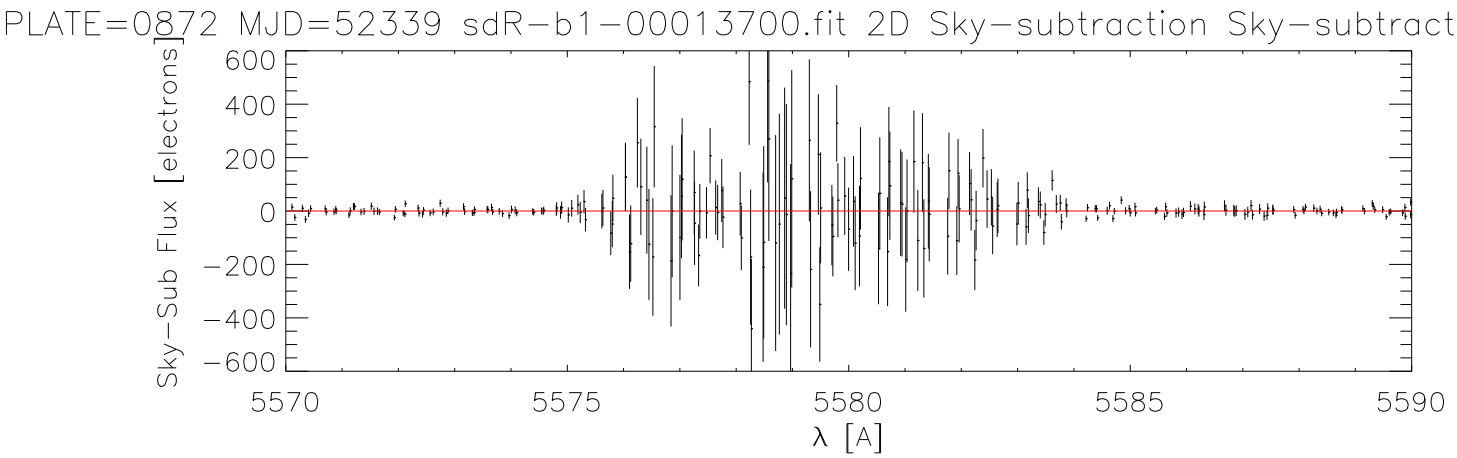

PLATE=0872 MJD=52339 sdR-b1-00013700.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

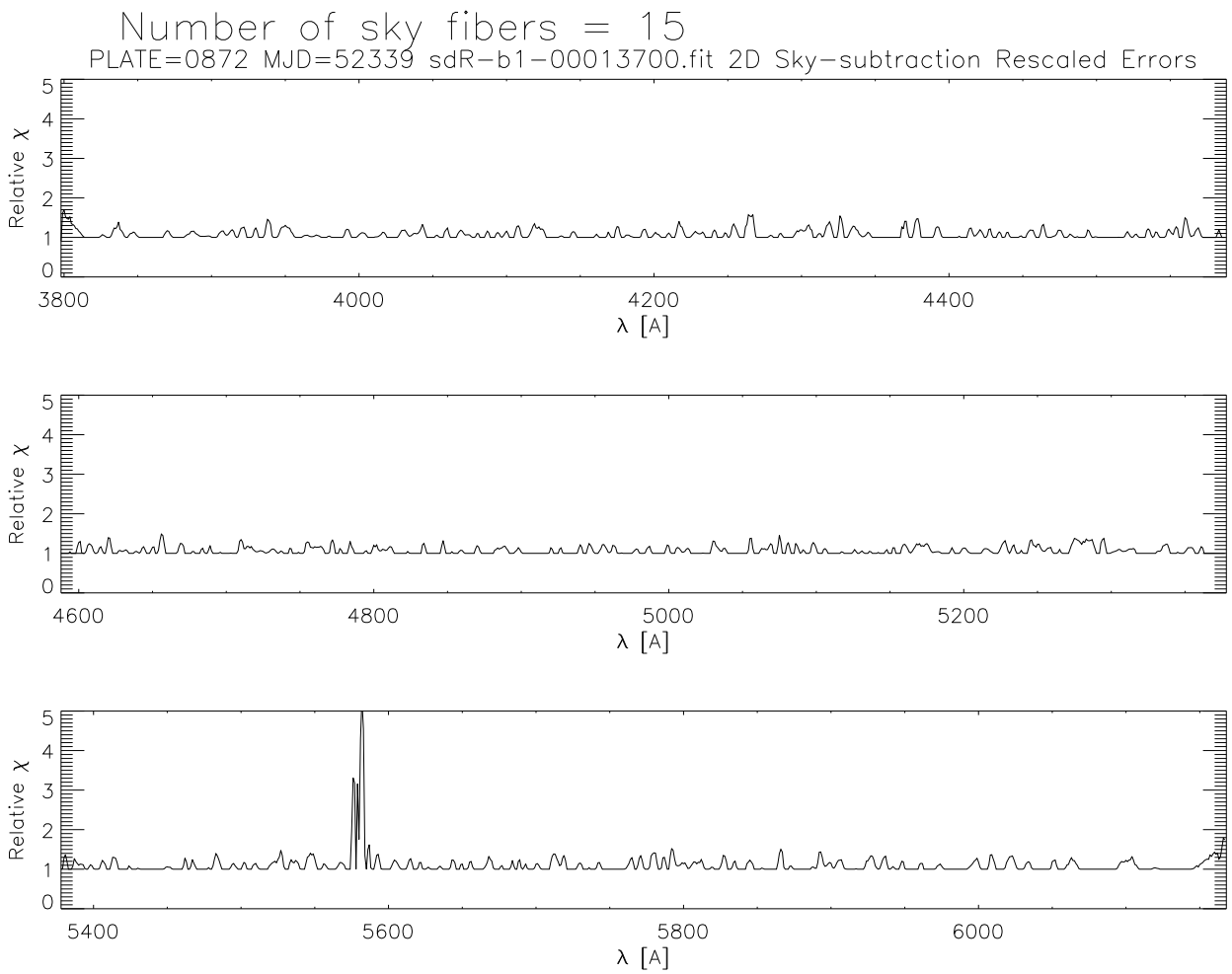

PLATE=0872 MJD=52339 sdR-b1-00013700.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
−500
−1000
−1500
5570
5575
5580
5585
5590
λ [A]

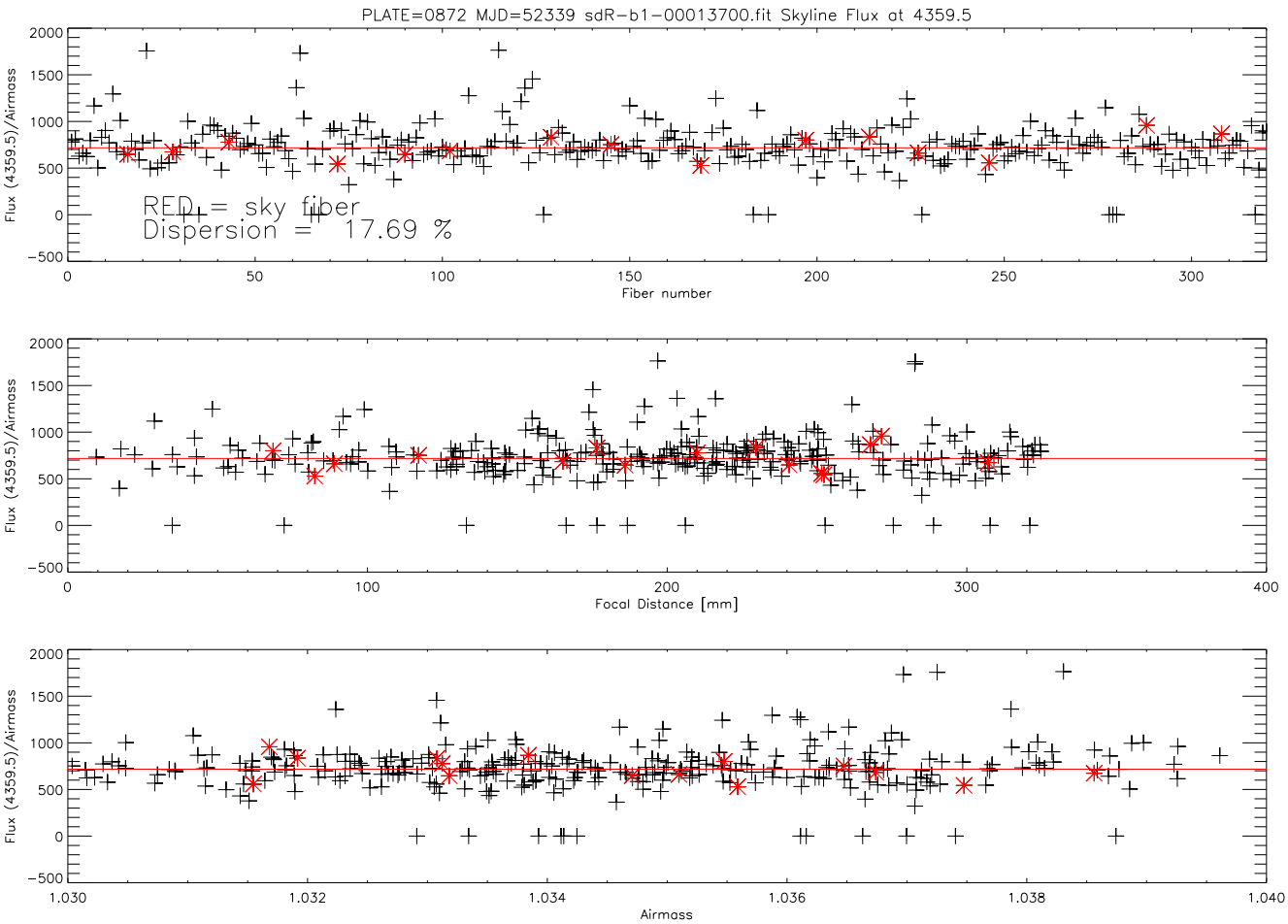

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b1-00013700.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

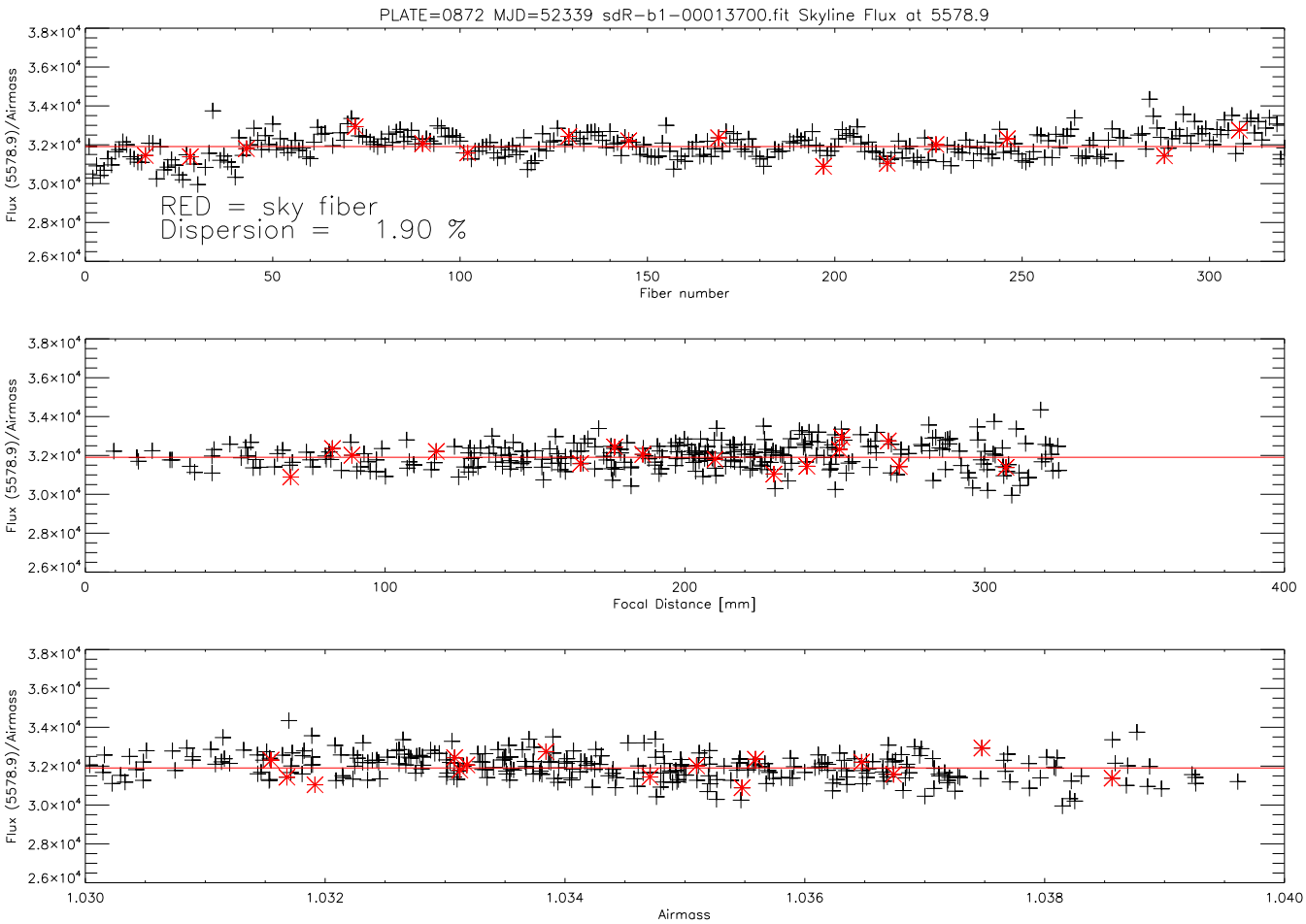

PLATE=0872 MJD=52339 sdR-b1-00013700.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

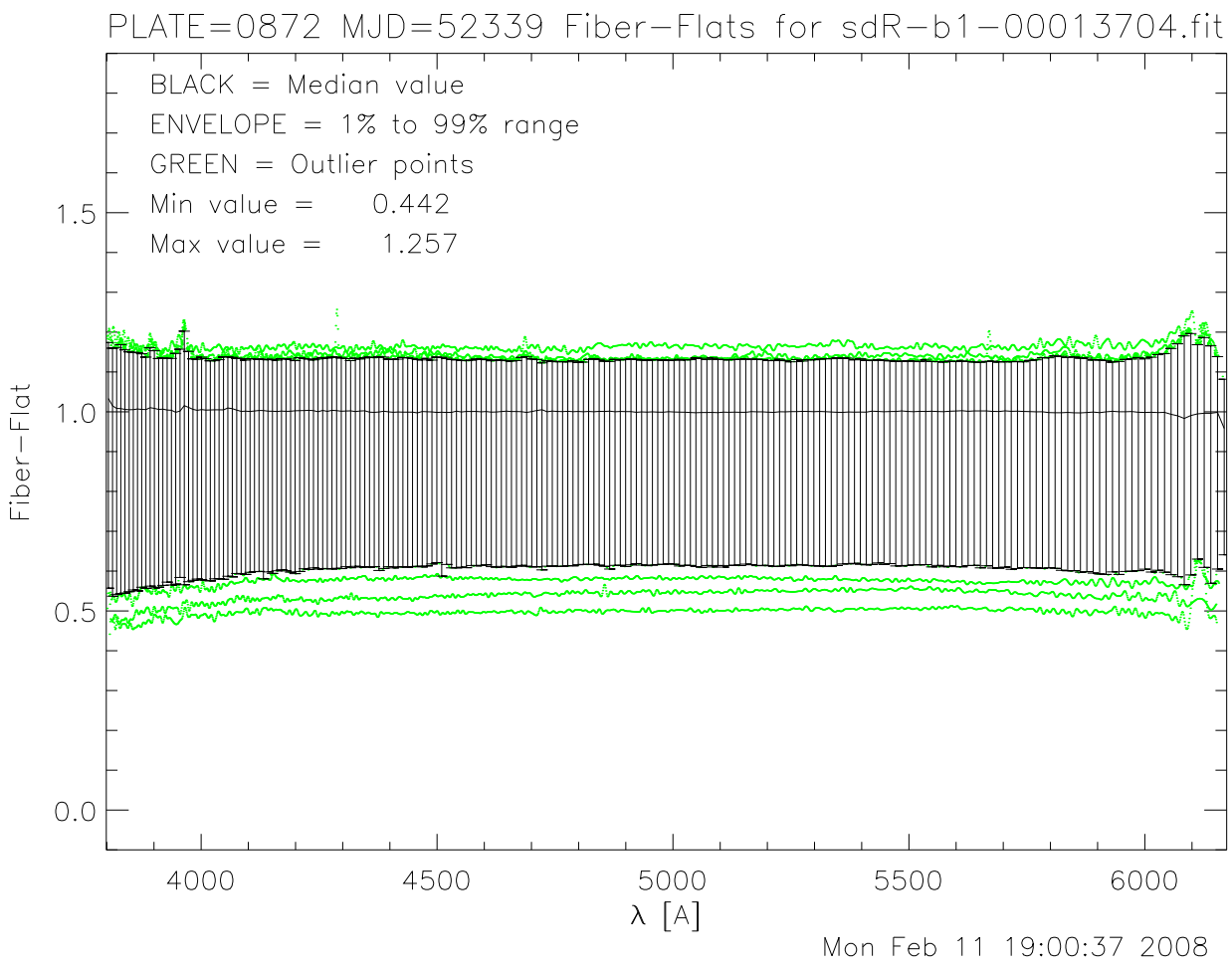

PLATE=0872 MJD=52339 sdR-b1-00013700.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

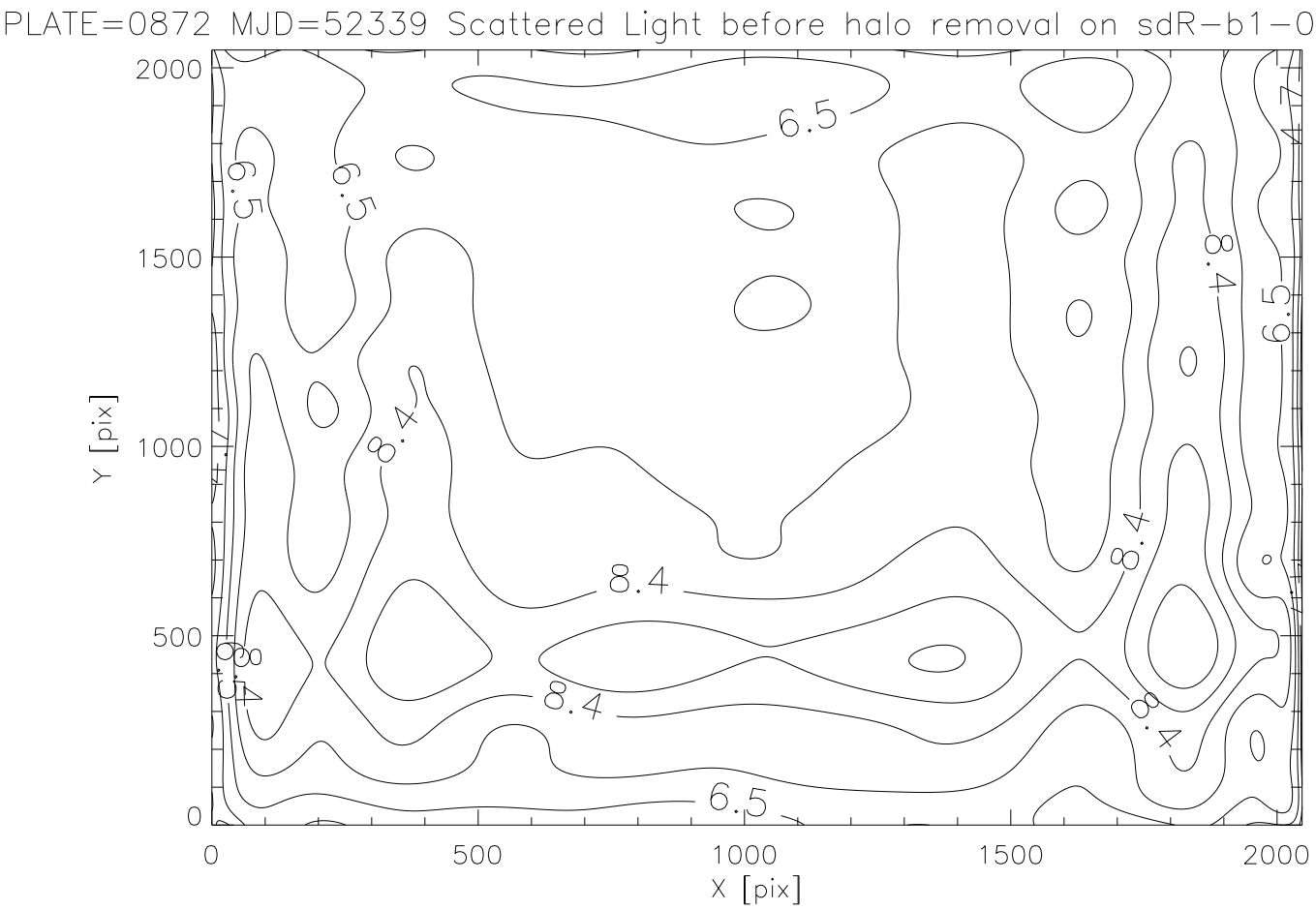

PLATE=0872 MJD=52339 sdR-b1-00013700.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
−600
5570
5575
5580
5585
5590
λ [A]

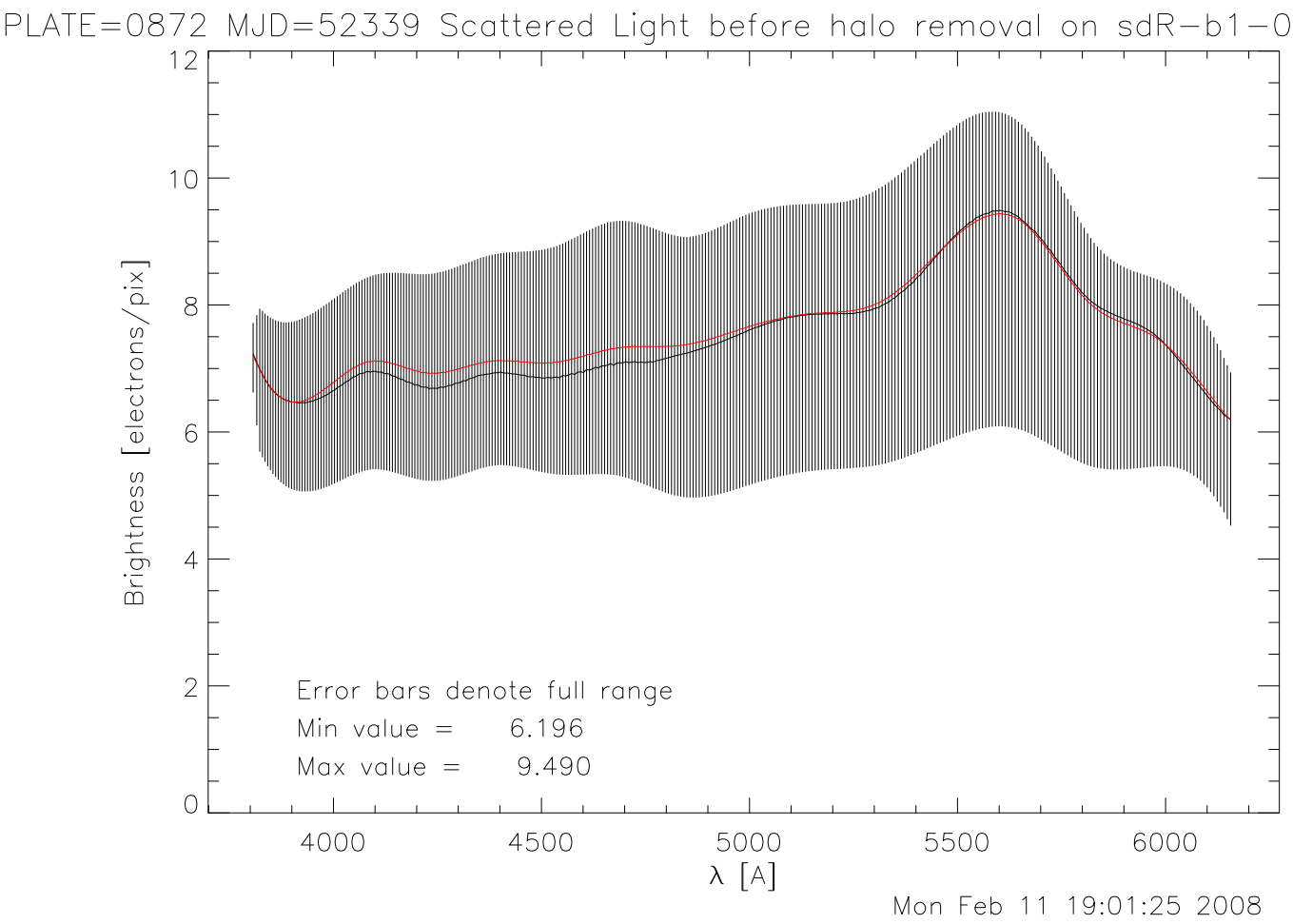

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b1-00013700.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

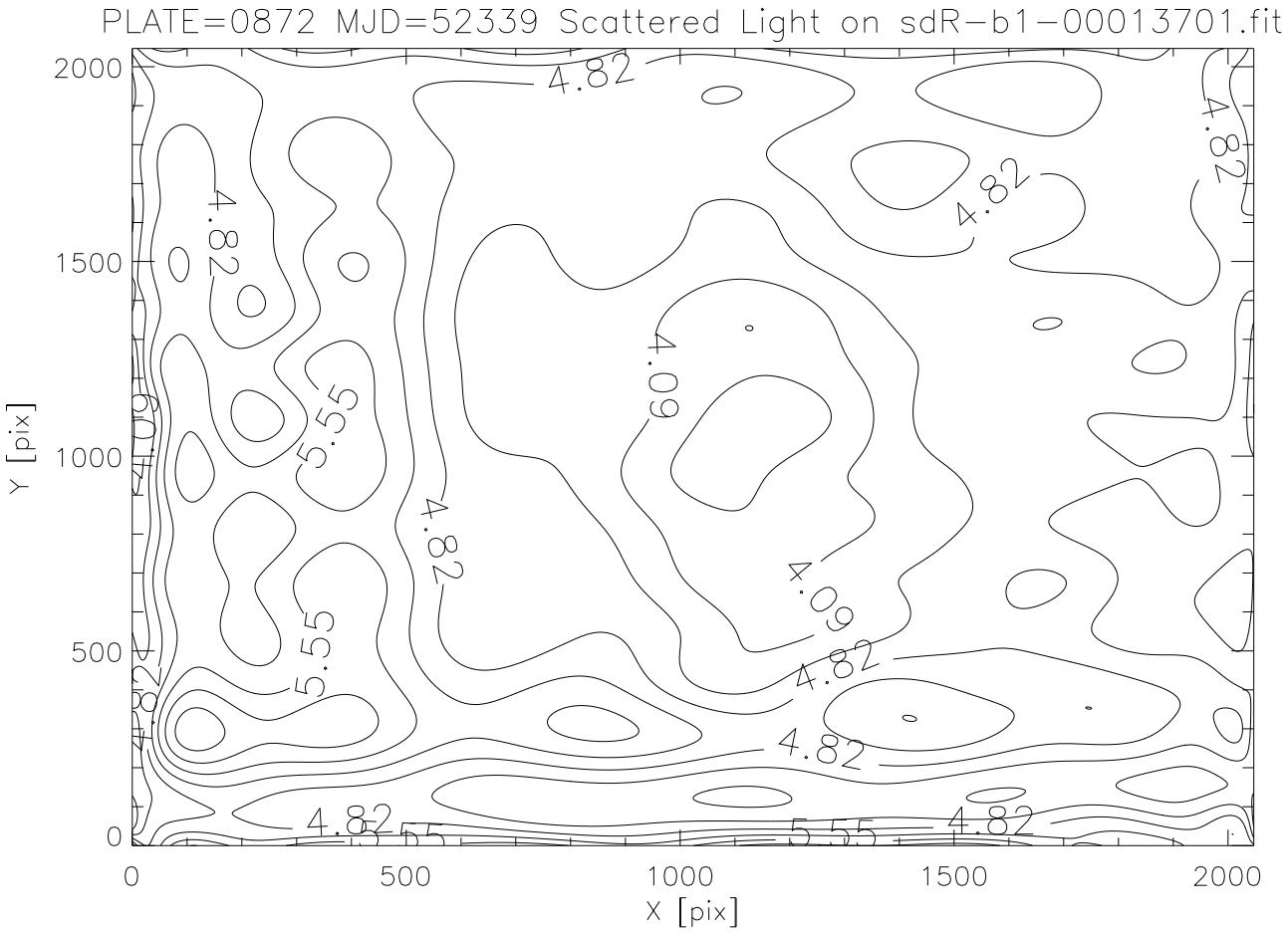

PLATE=0872 MJD=52339 sdR-b1-00013700.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED= sky fiber
Dispersion = 17.69 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

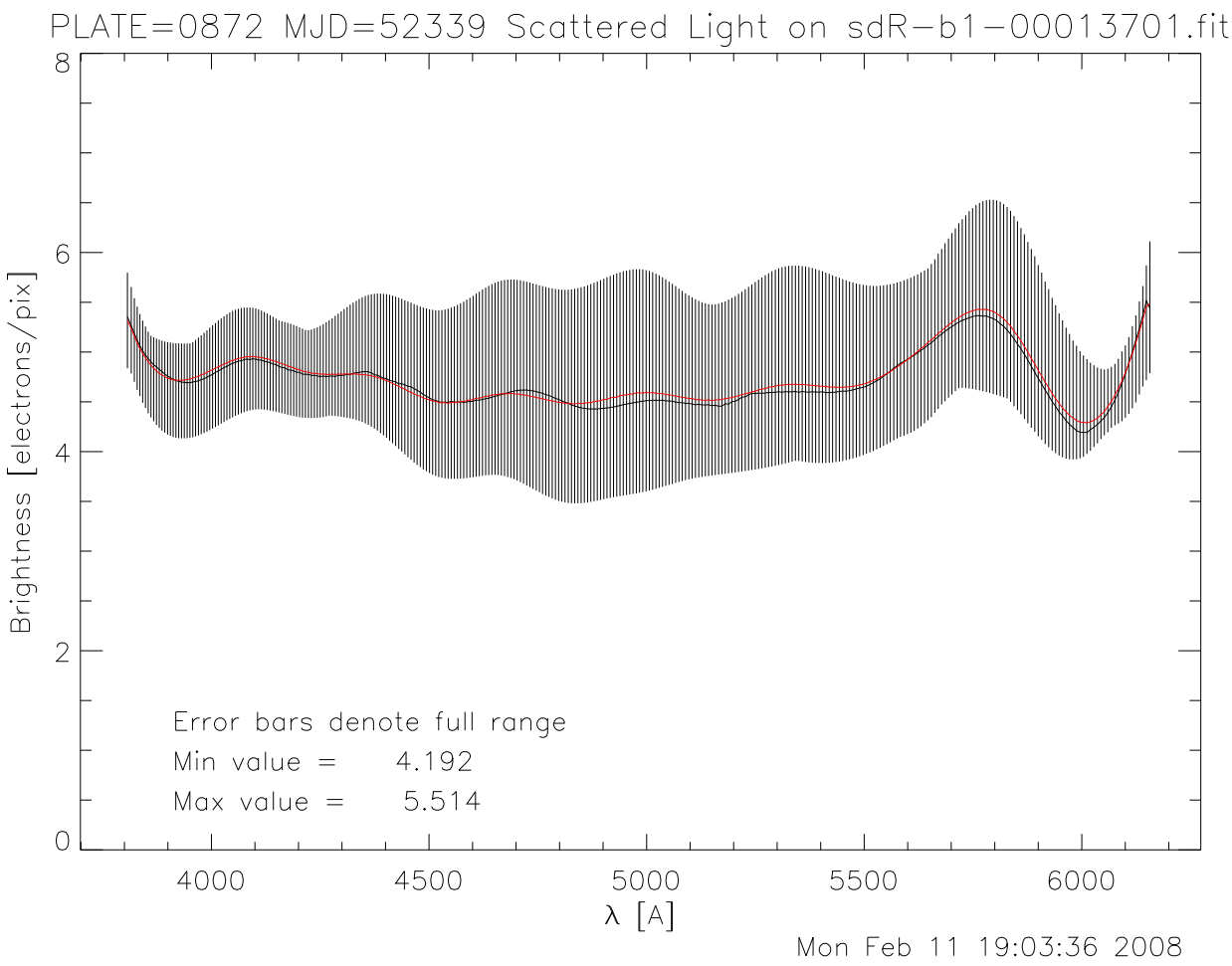

PLATE=0872 MJD=52339 sdR-b1-00013700.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.90 %
Fiber number
Focal Distance [mm]
Airmass

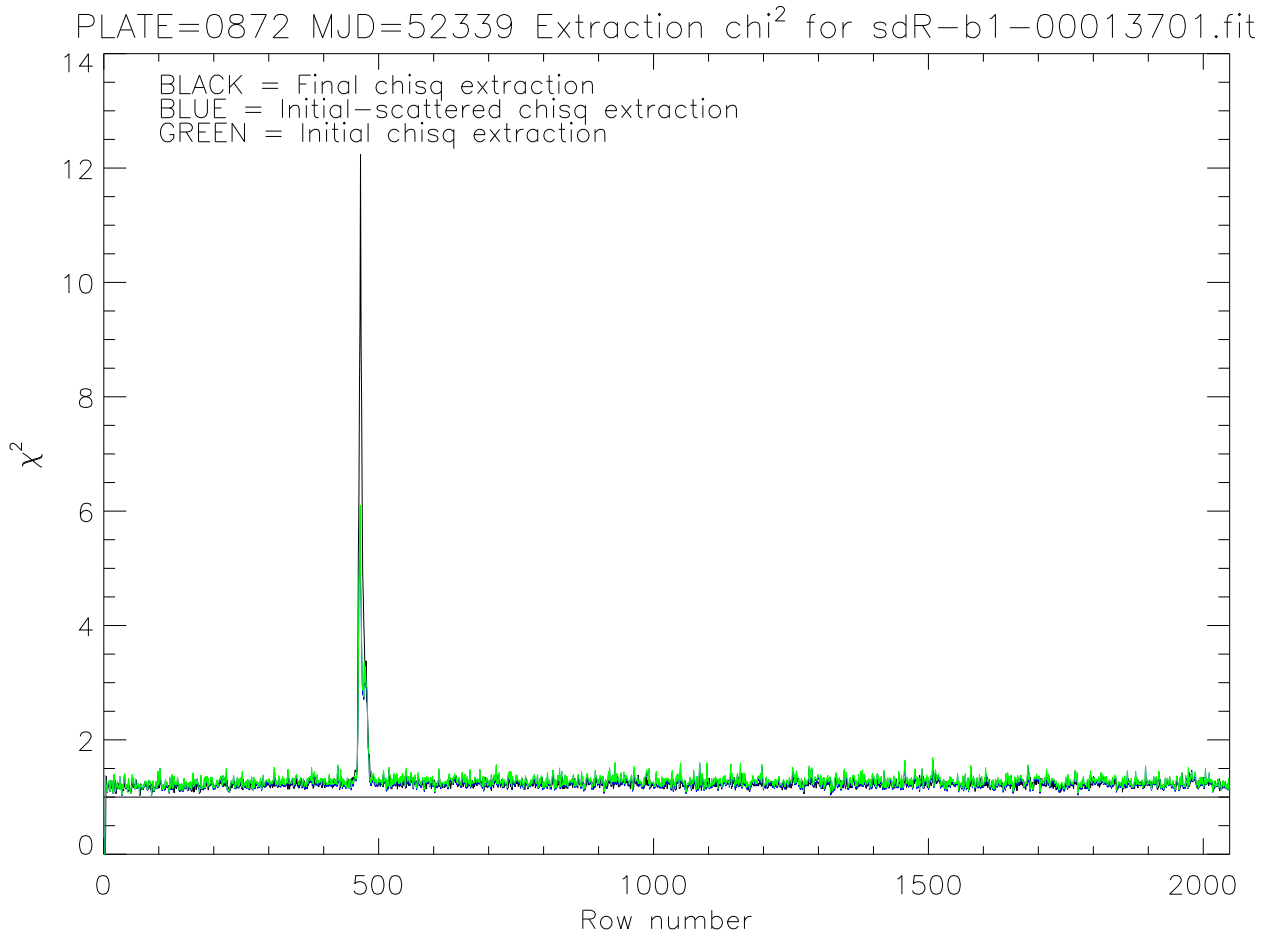

PLATE=0872 MJD=52339 Fiber−Flats for sdR−b1−00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.442
Max value = 1.257
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:00:37 2008

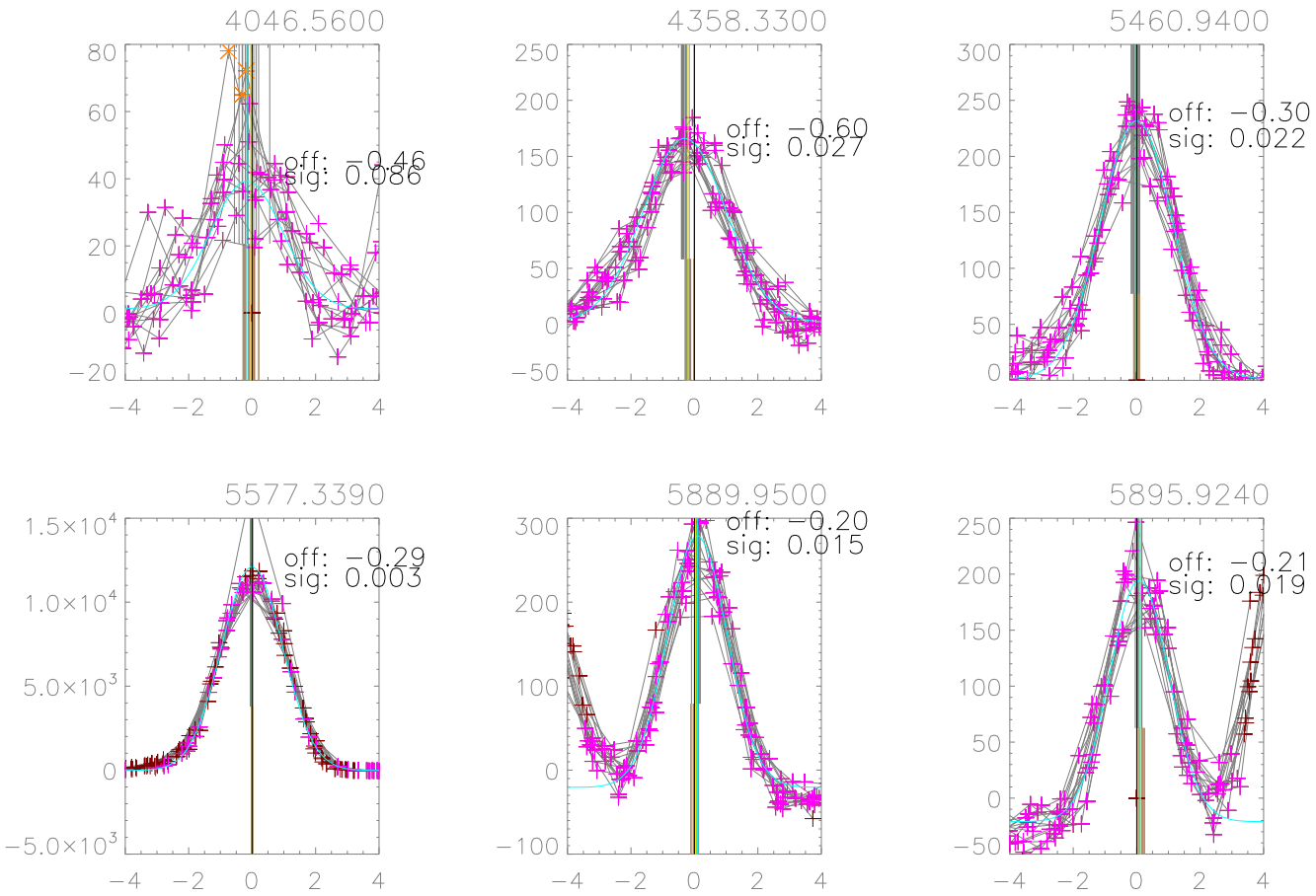

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b1-00013701.f
Y [pix]
X [pix]
0
500
1000
1500
2000
6.5
8.4

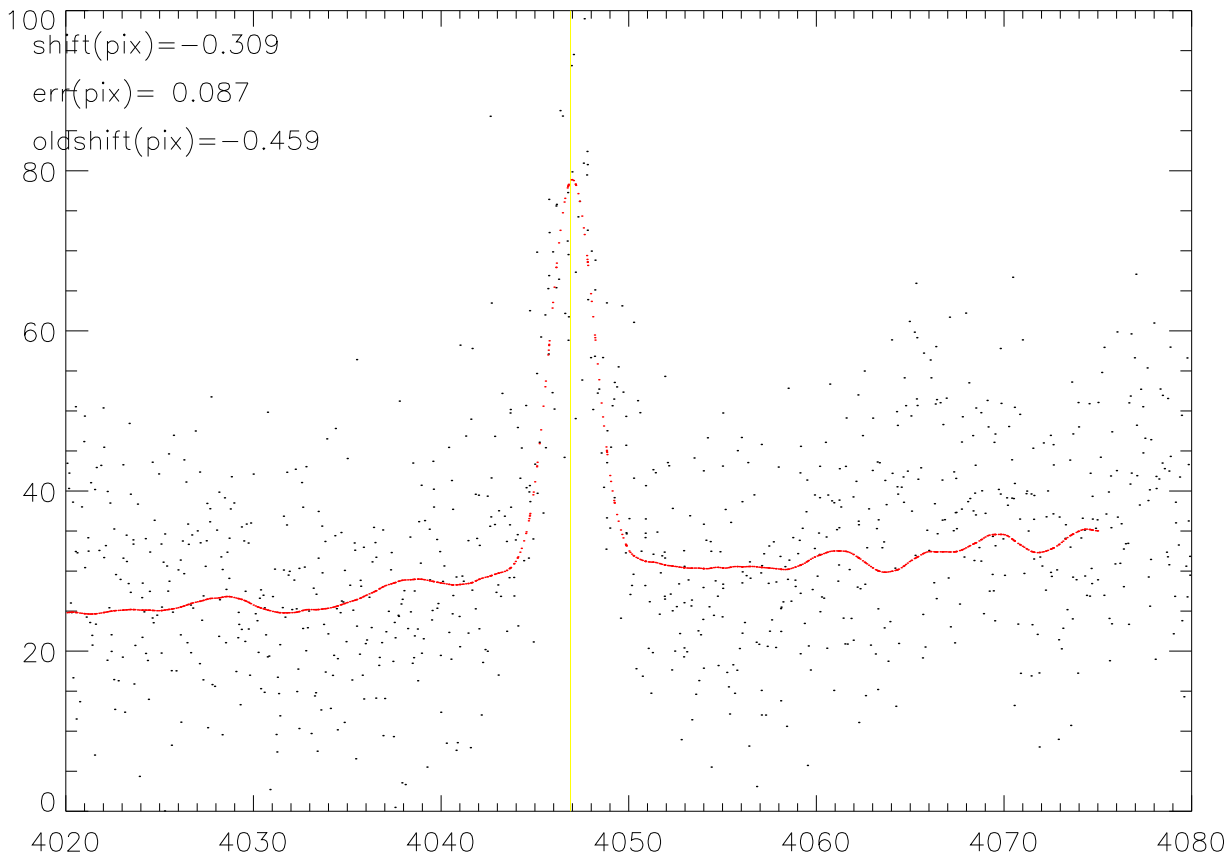

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b1-00013701.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.196
Max value = 9.490
Mon Feb 11 19:01:25 2008

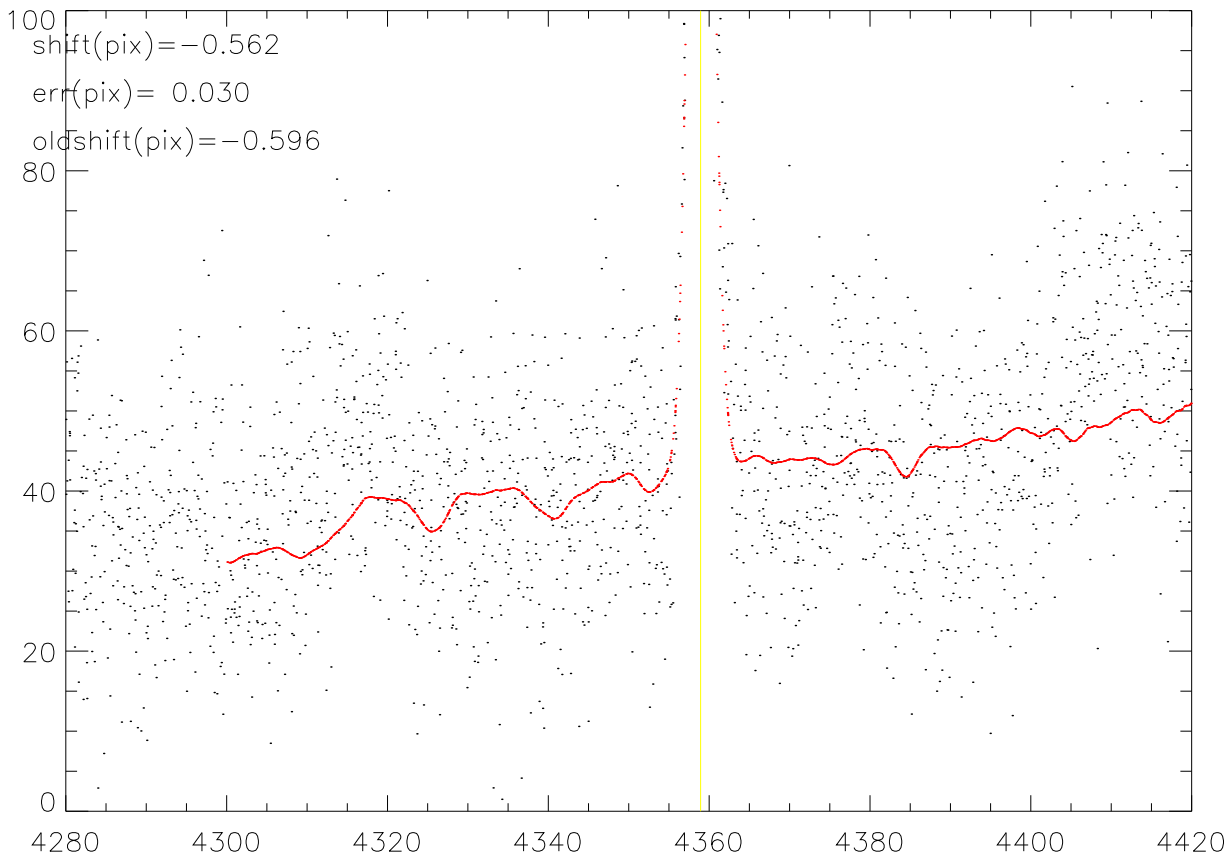

PLATE=0872 MJD=52339 Scattered Light on sdR-b1-00013701.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.82
5.55
4.09

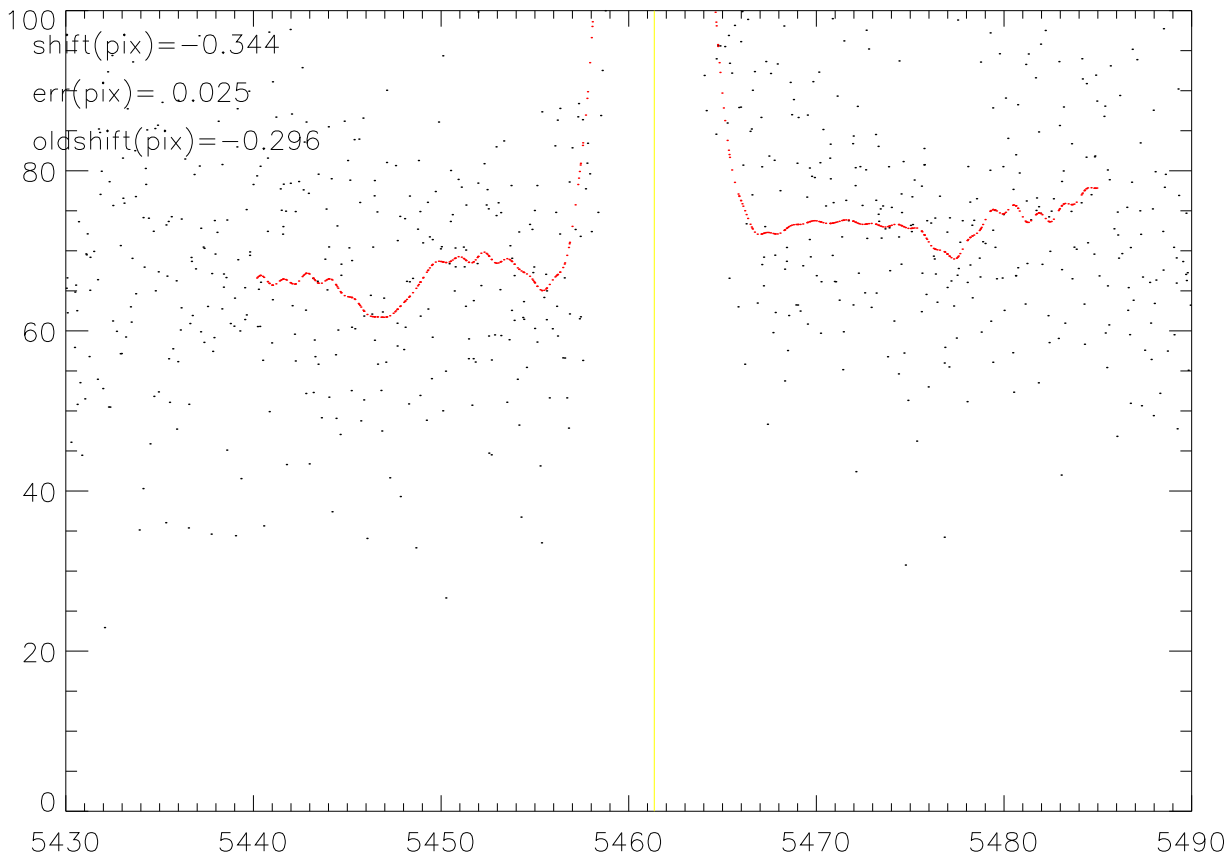

PLATE=0872 MJD=52339 Scattered Light on sdR-b1-00013701.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.192
Max value = 5.514
Mon Feb 11 19:03:36 2008

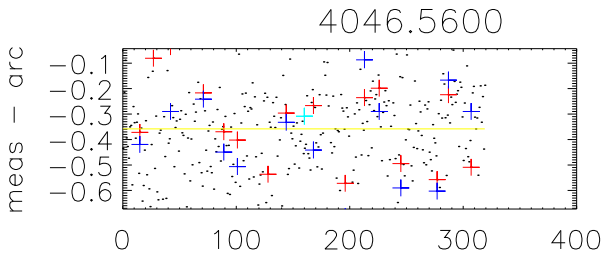

PLATE=0872 MJD=52339 Extraction chi^2 for sdR-b1-00013701.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
14
0
500
1000
1500
2000
Row number

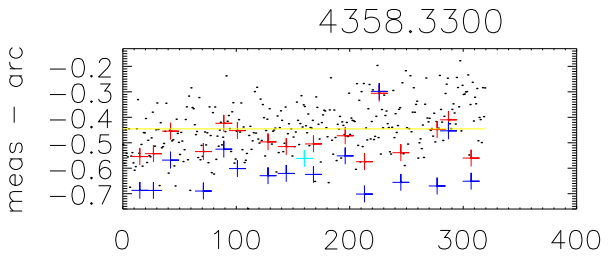

4046.5600
off: −0.46
sig: 0.086
4358.3300
off: −0.60
sig: 0.027
5460.9400
off: −0.30
sig: 0.022
5577.3390
off: −0.29
sig: 0.003
5889.9500
off: −0.20
sig: 0.015
5895.9240
off: −0.21
sig: 0.019

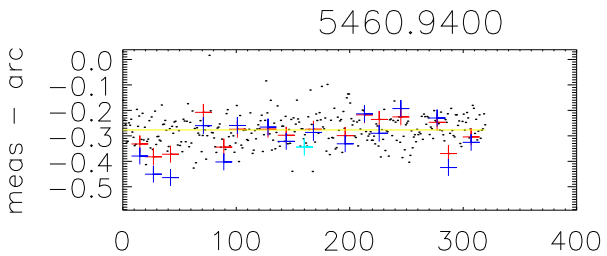

shift(pix)=−0.309
err(pix)= 0.087
oldshift(pix)=−0.459
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

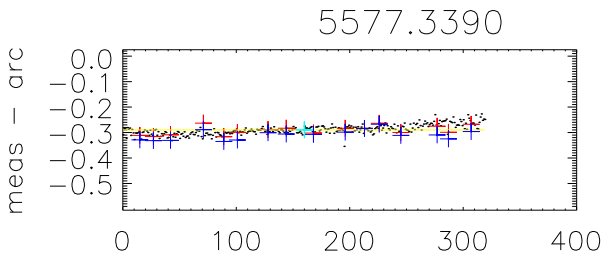

shift(pix)=−0.562
err(pix)= 0.030
oldshift(pix)=−0.596
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

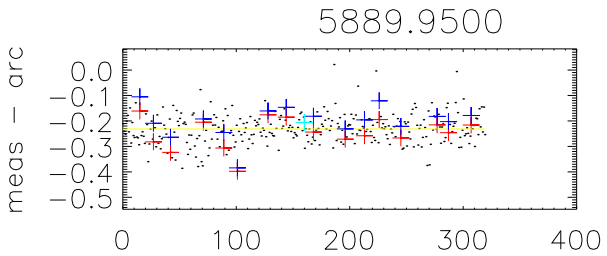

shift(pix)=−0.344
err(pix)=.0.025
oldshift(pix)=−0.296
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

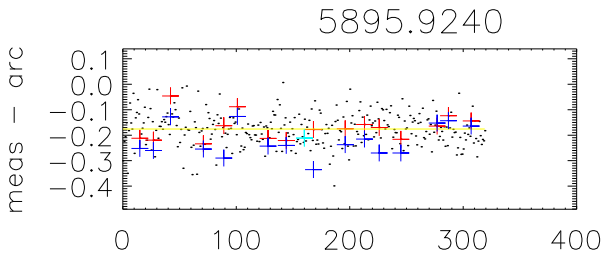

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

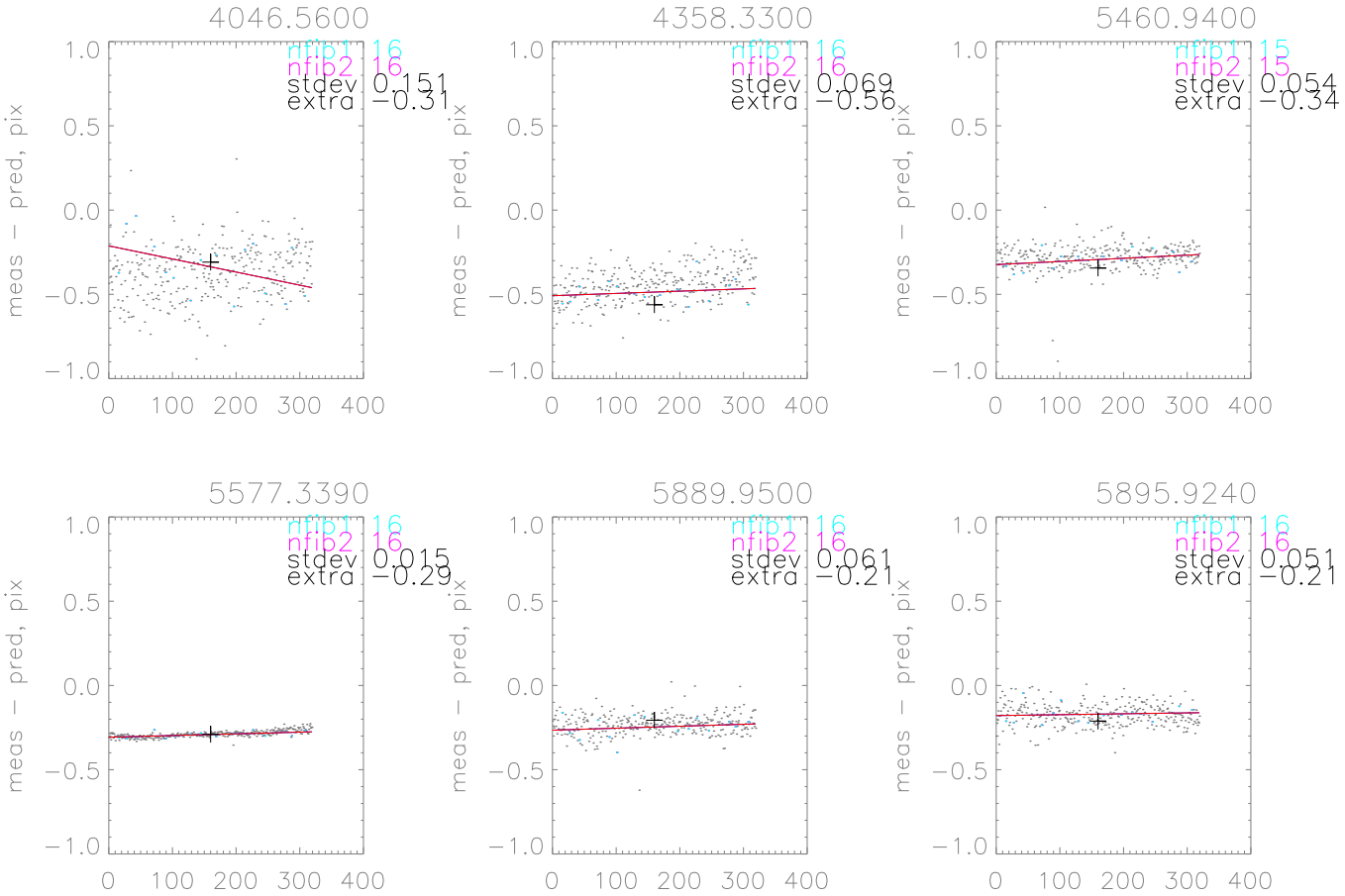

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

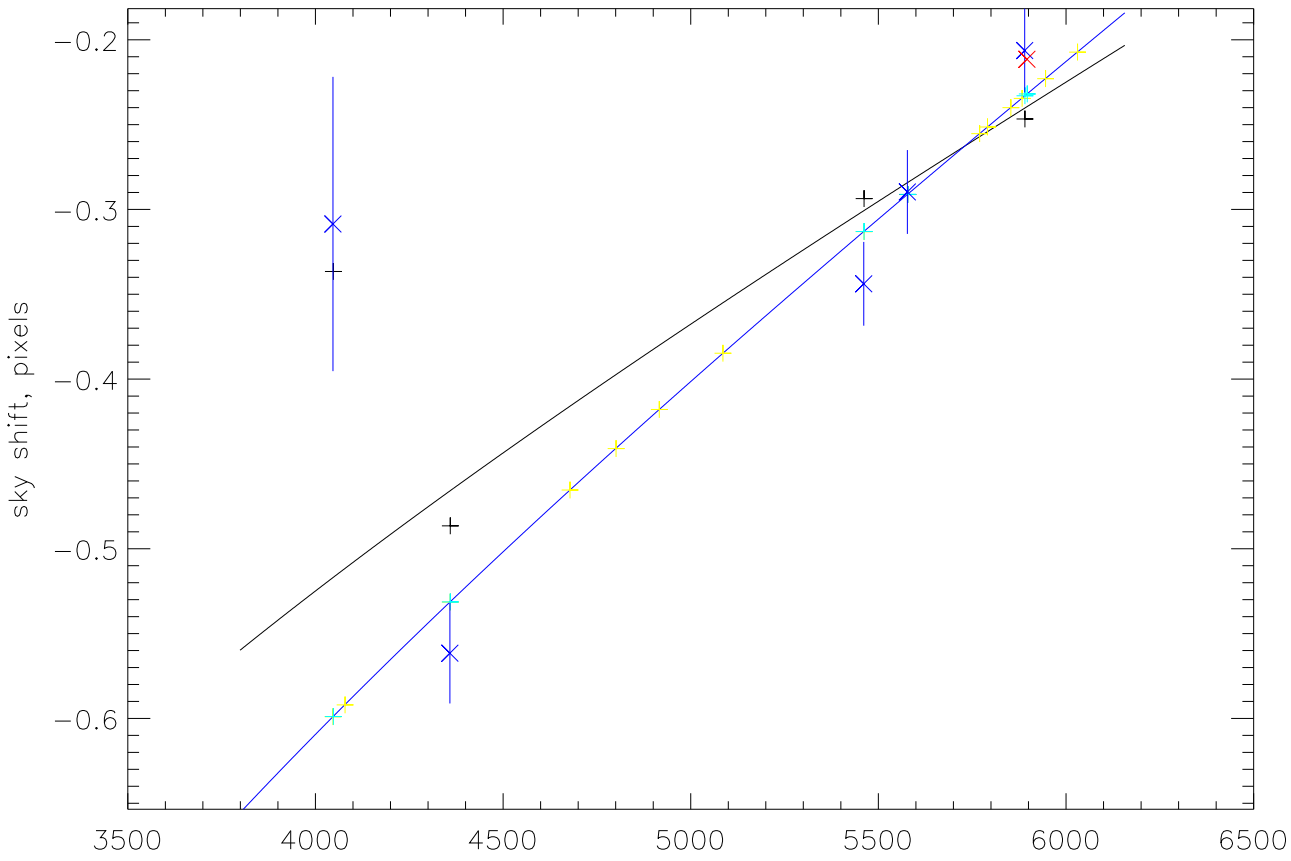

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

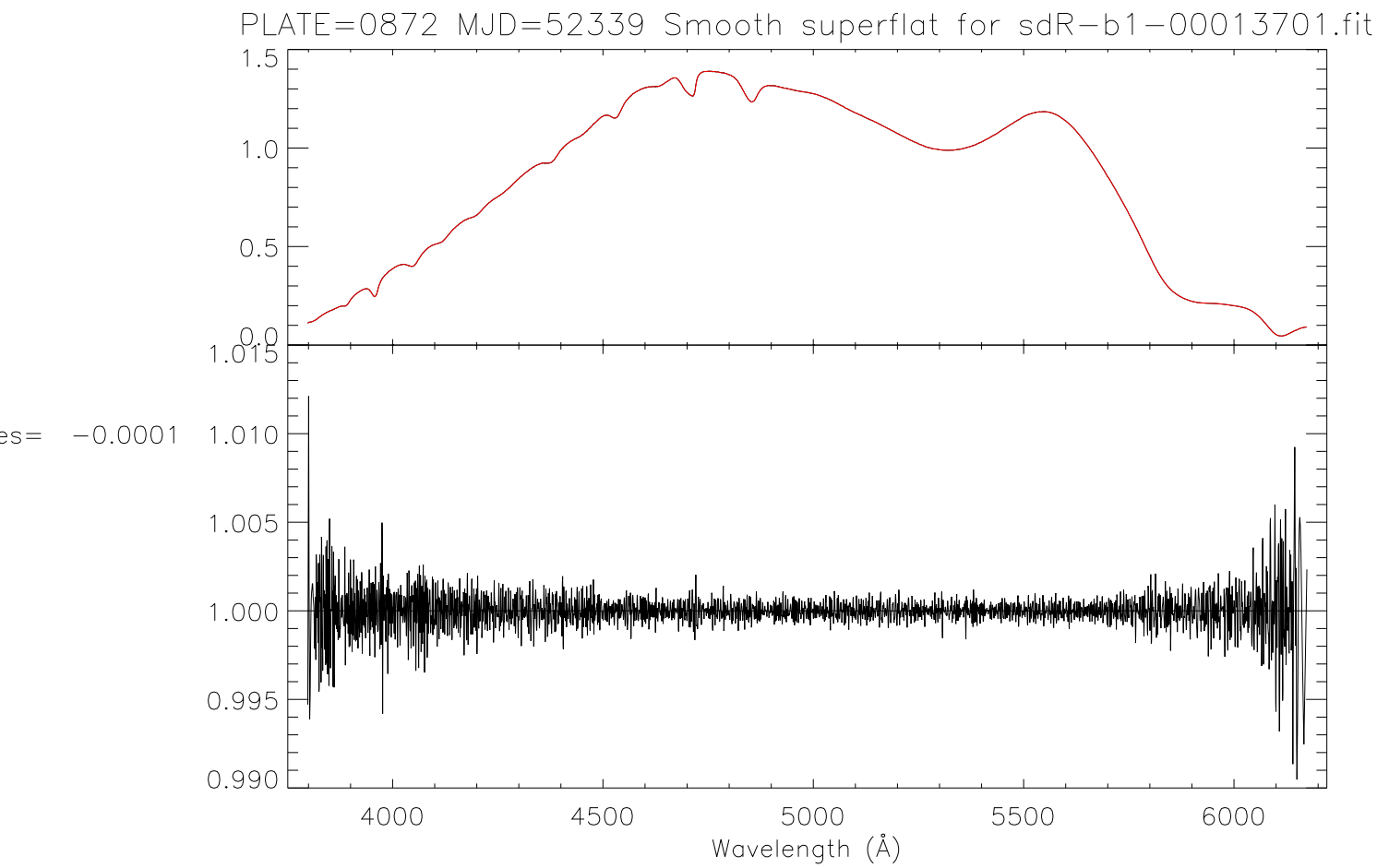

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

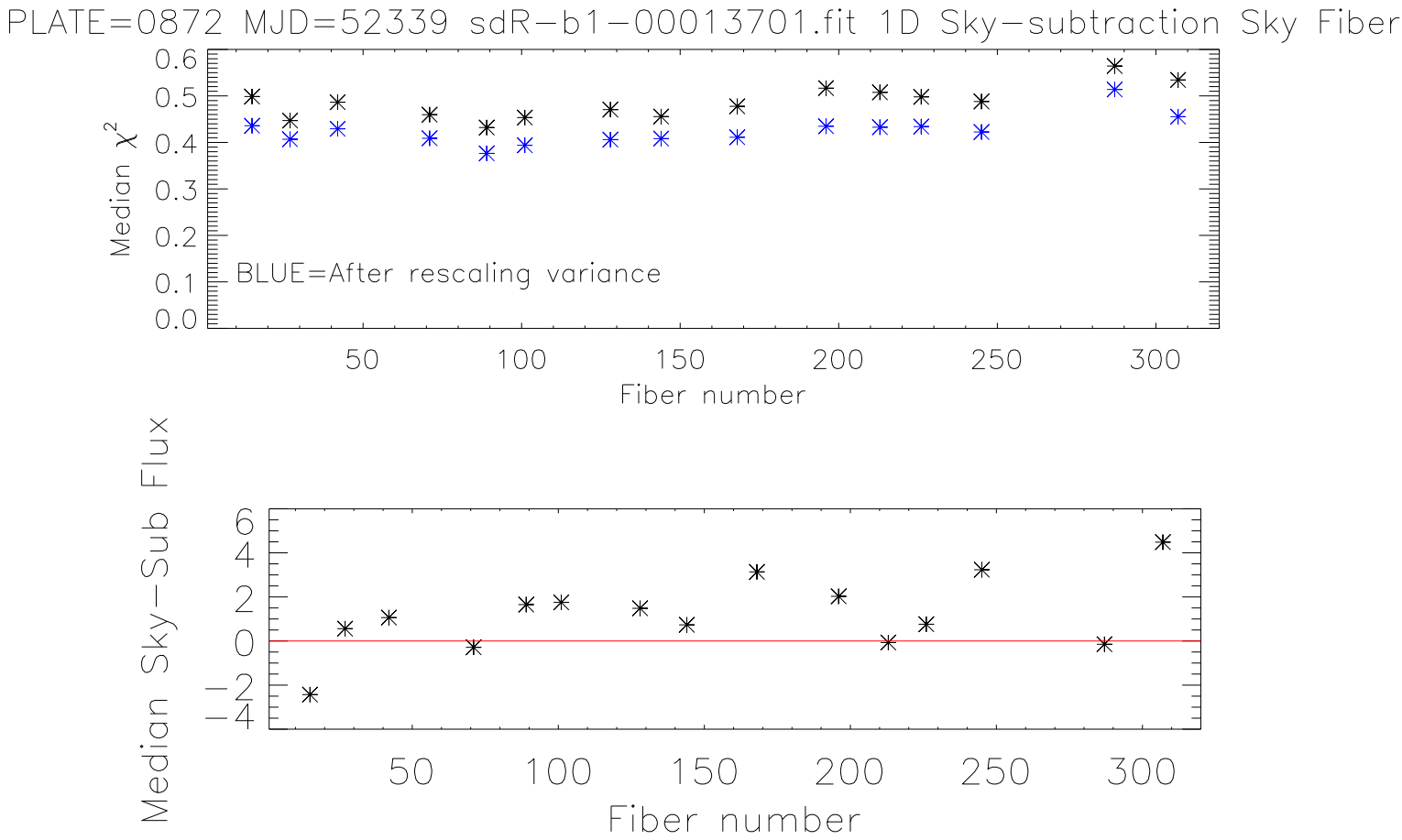

5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

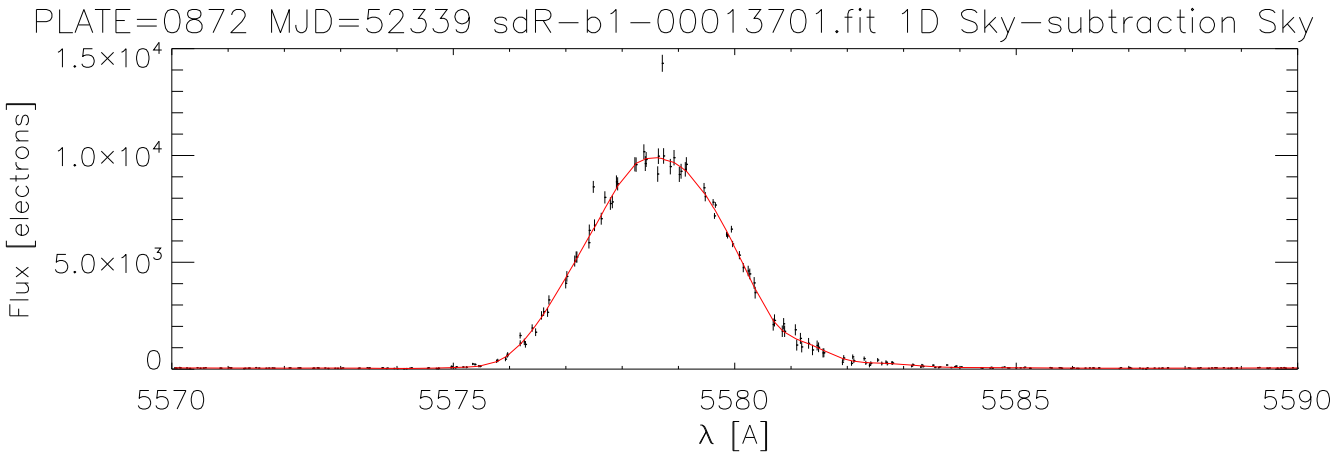

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

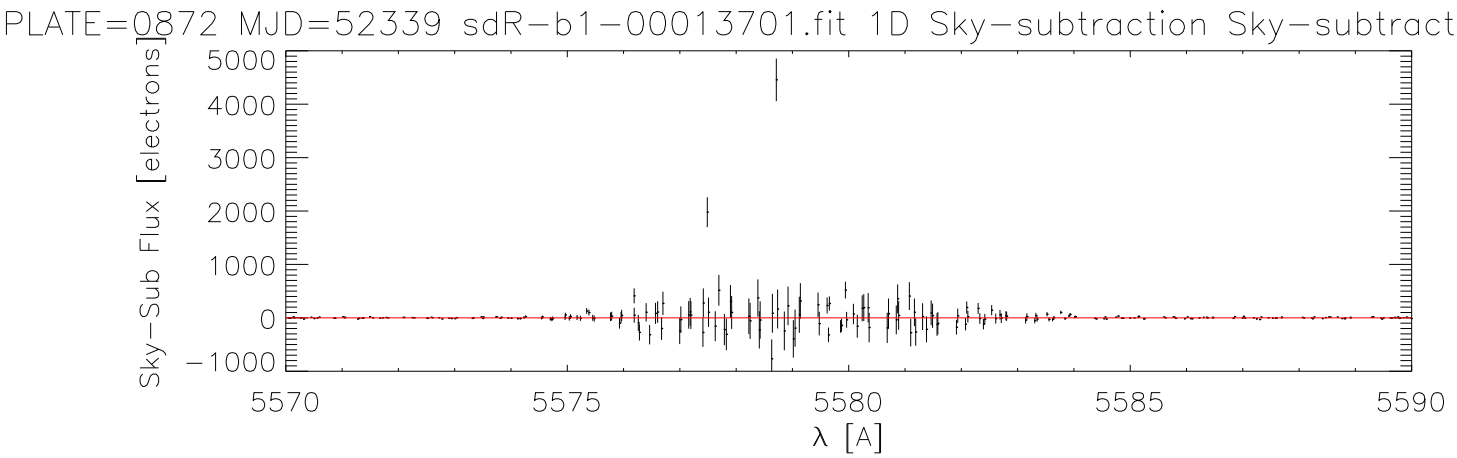

4046.5600
nfib1 16
nfib2 16
stdev 0.151
extra −0.31
4358.3300
nfib1 16
nfib2 16
stdev 0.069
extra −0.56
5460.9400
nfib1 15
nfib2 15
stdev 0.054
extra −0.34
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra −0.29
5889.9500
nfib1 16
nfib2 16
stdev 0.061
extra −0.21
5895.9240
nfib1 16
nfib2 16
stdev 0.051
extra −0.21
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

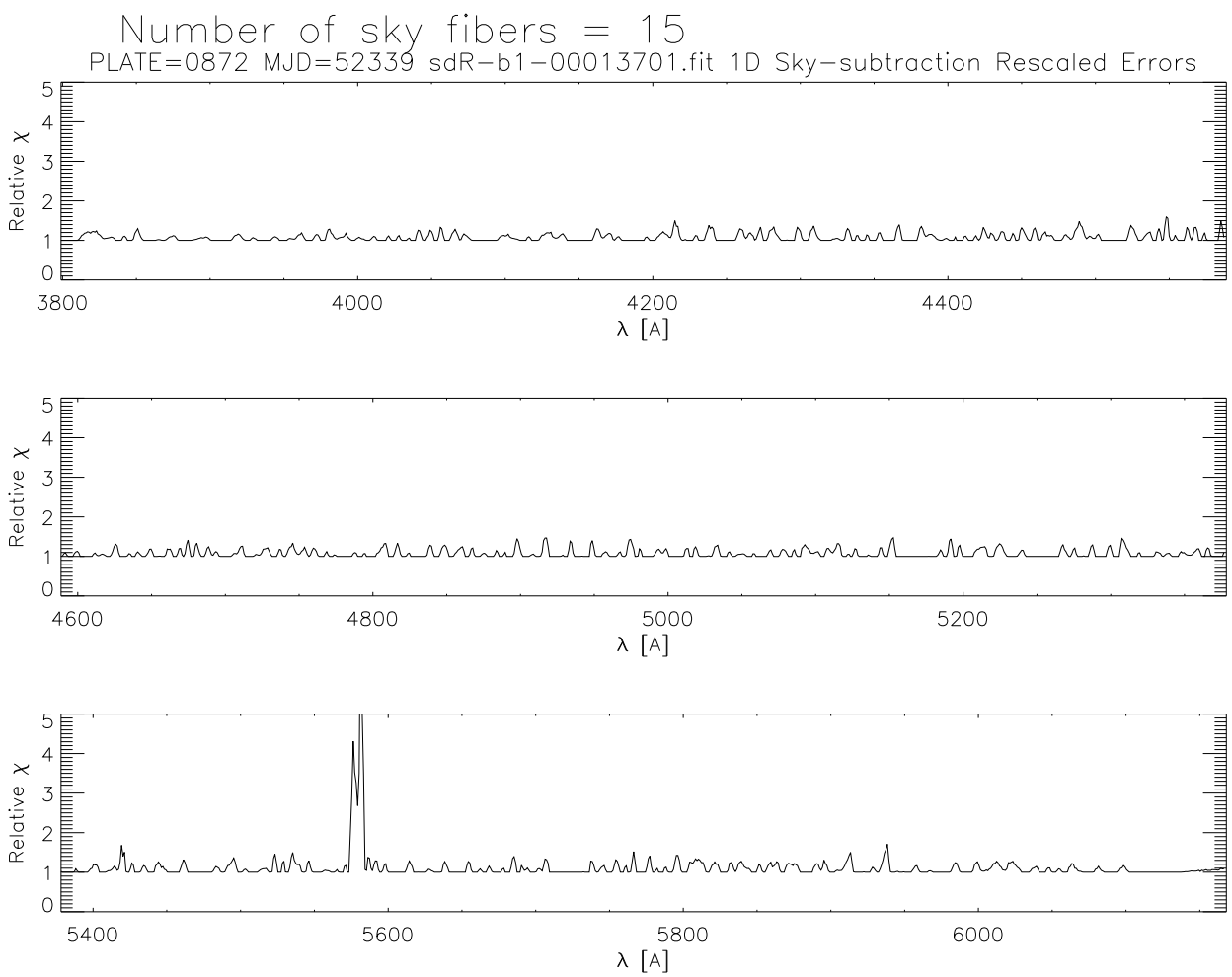

sky shift, pixels
−0.2
−0.3
−0.4
−0.5
−0.6
3500
4000
4500
5000
5500
6000
6500

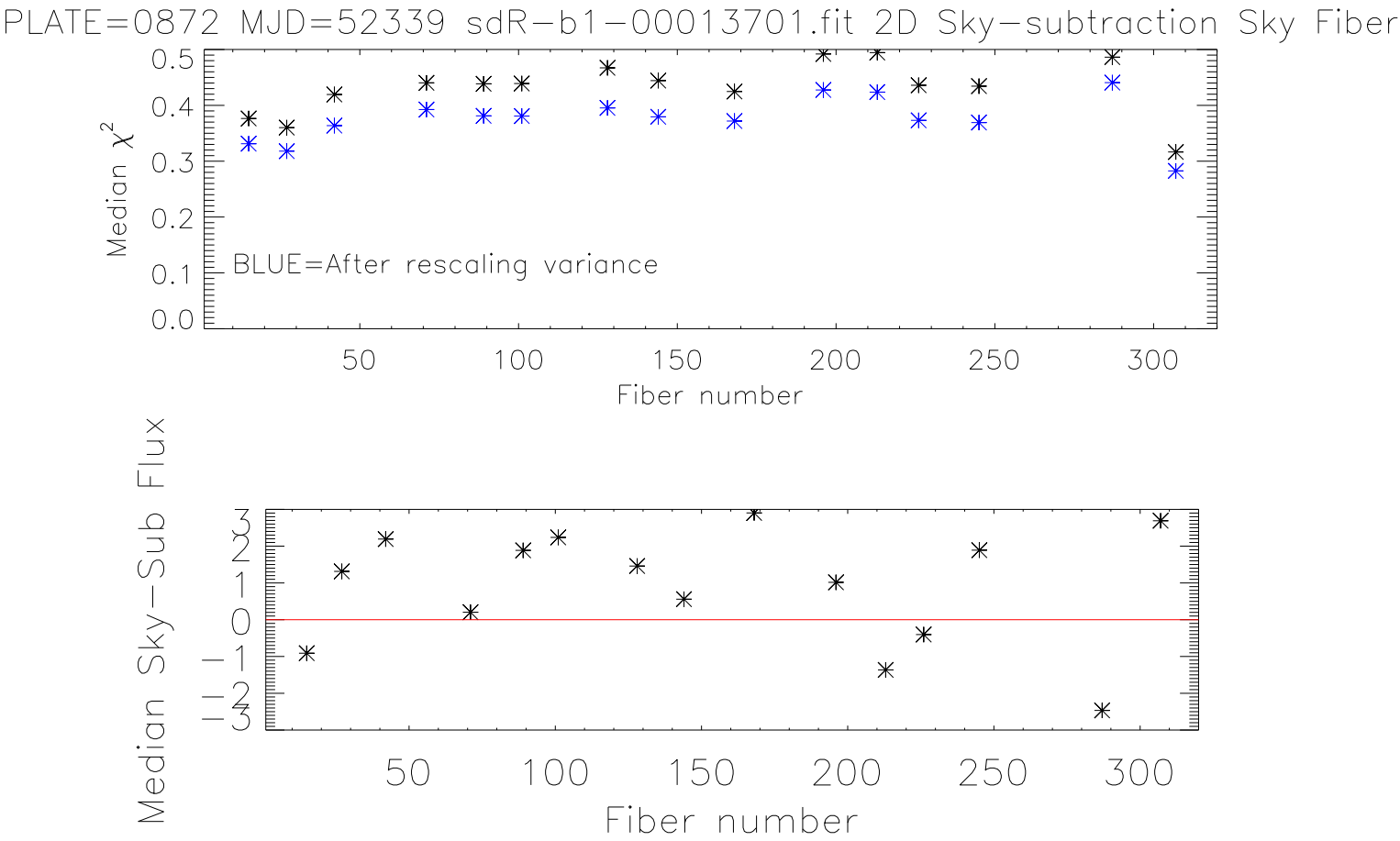

PLATE=0872 MJD=52339 Smooth superflat for sdR-b1-00013701.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
es= −0.0001
4000
4500
5000
5500
6000
Wavelength (Å)

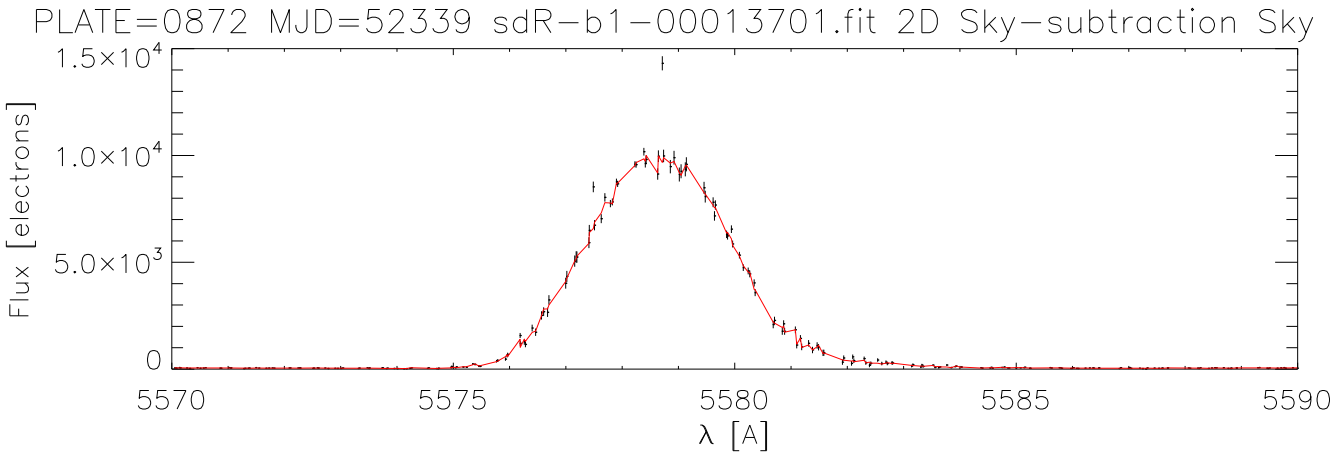

PLATE=0872 MJD=52339 sdR-b1-00013701.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

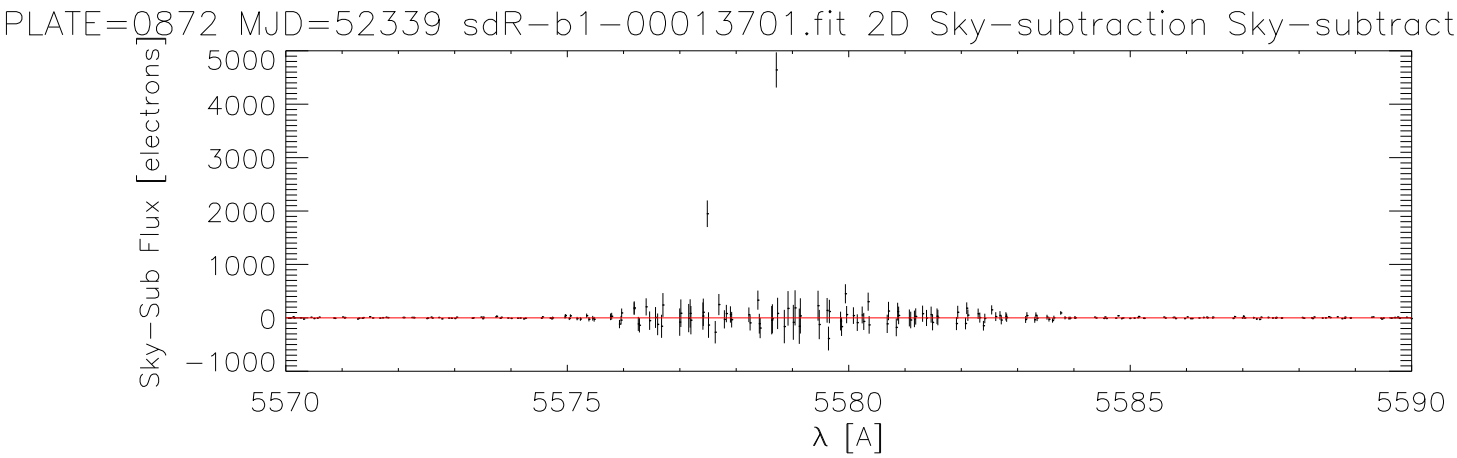

PLATE=0872 MJD=52339 sdR-b1-00013701.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

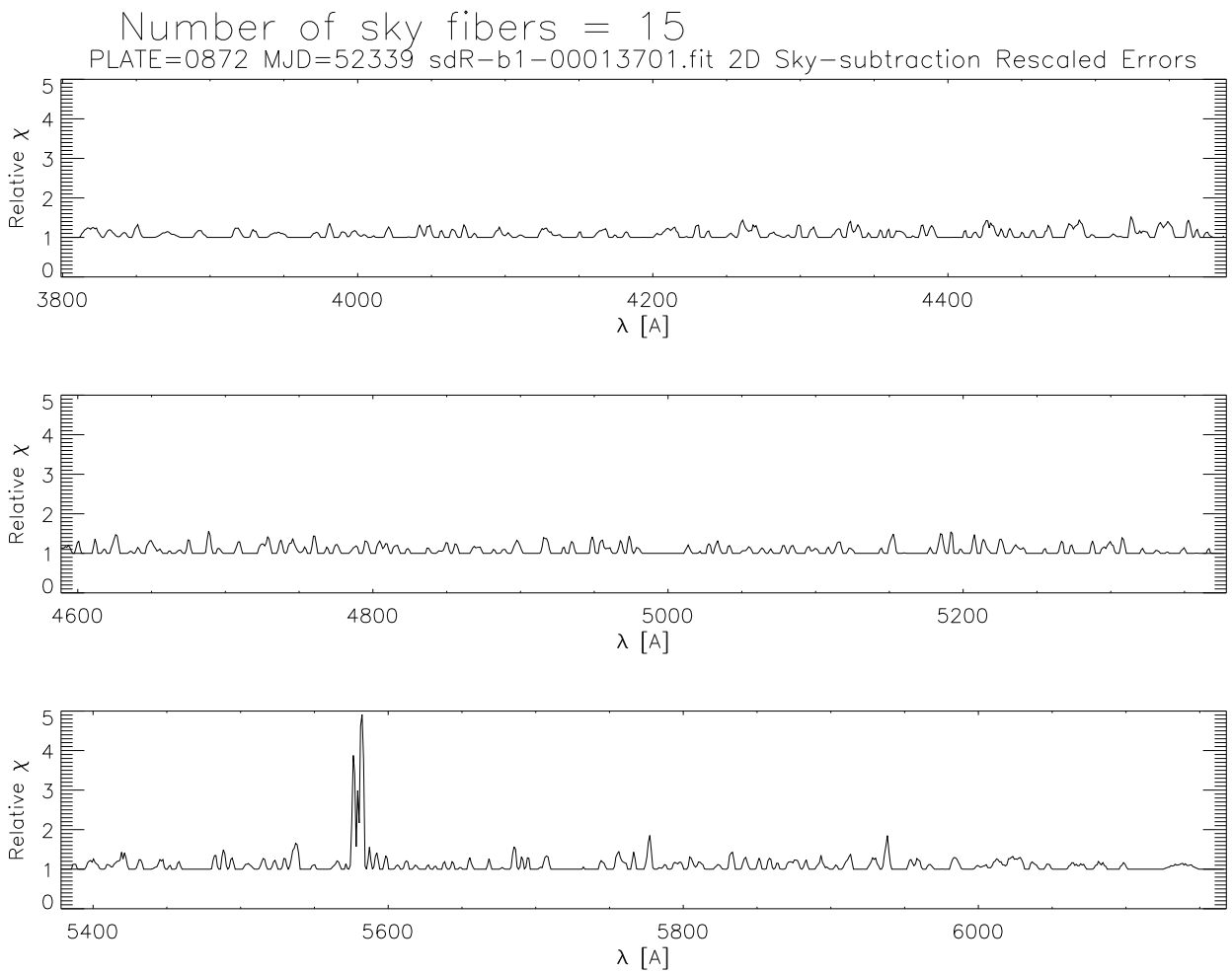

PLATE=0872 MJD=52339 sdR-b1-00013701.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
−1000
5570
5575
5580
5585
5590
λ [A]

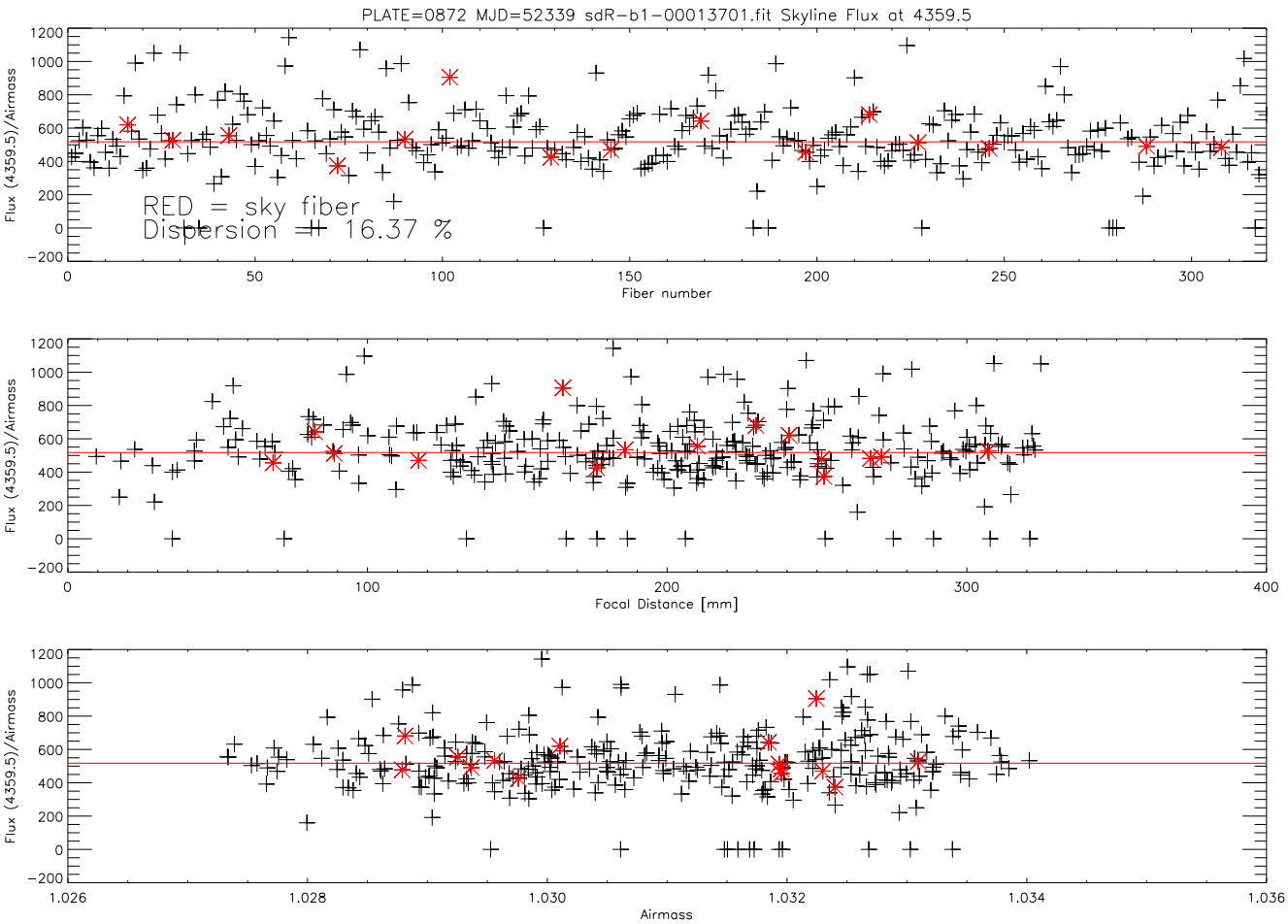

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b1-00013701.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

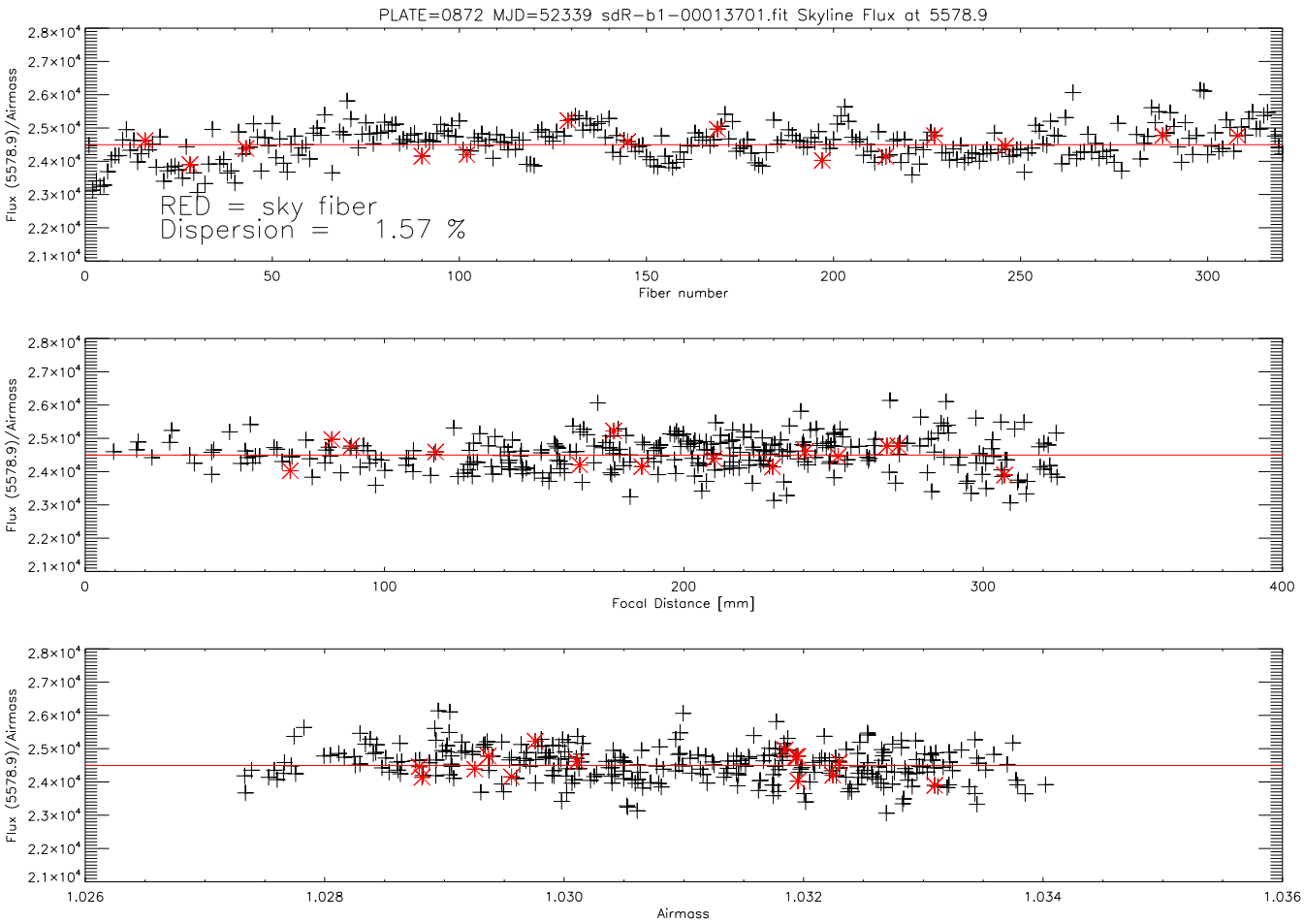

PLATE=0872 MJD=52339 sdR-b1-00013701.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

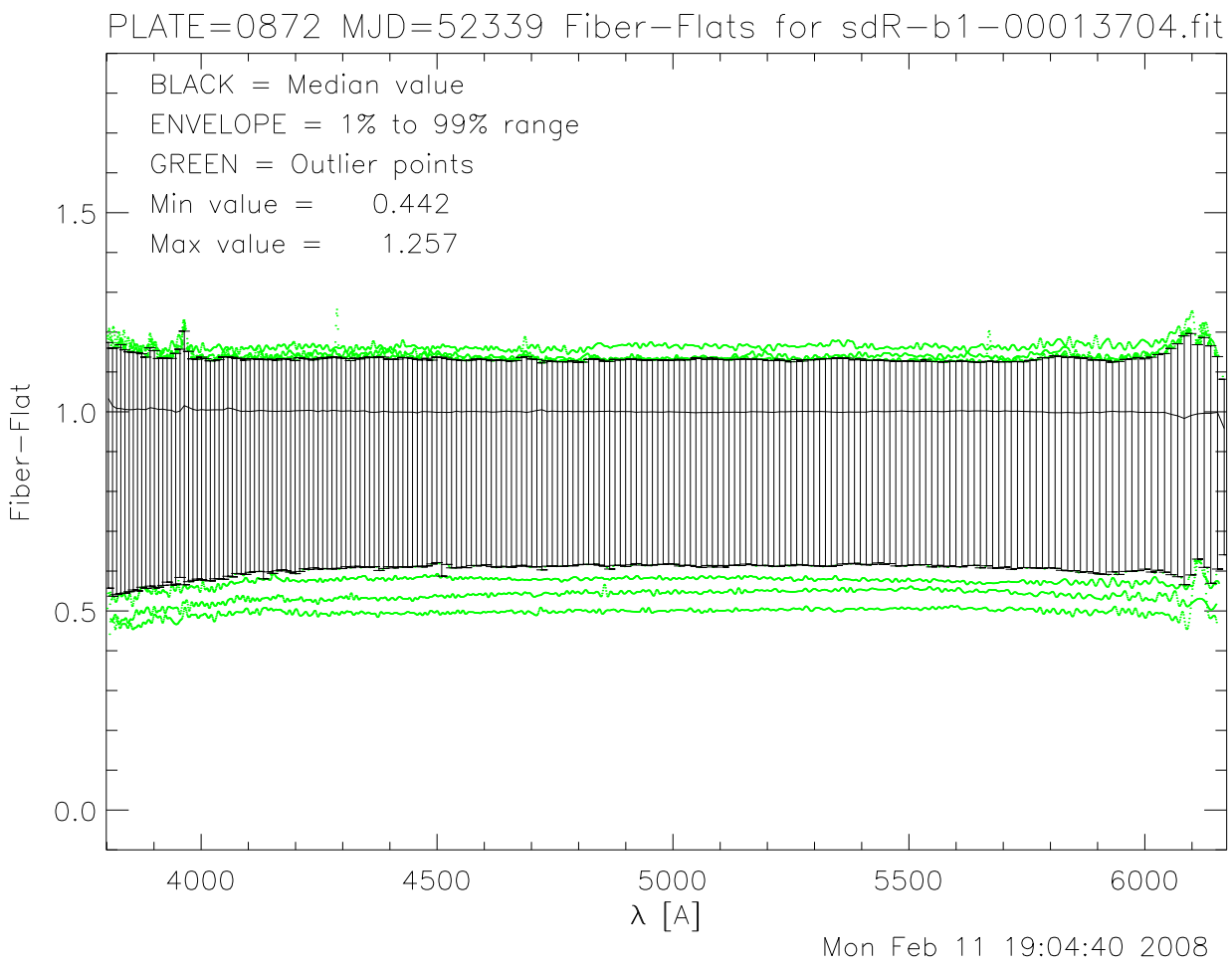

PLATE=0872 MJD=52339 sdR-b1-00013701.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

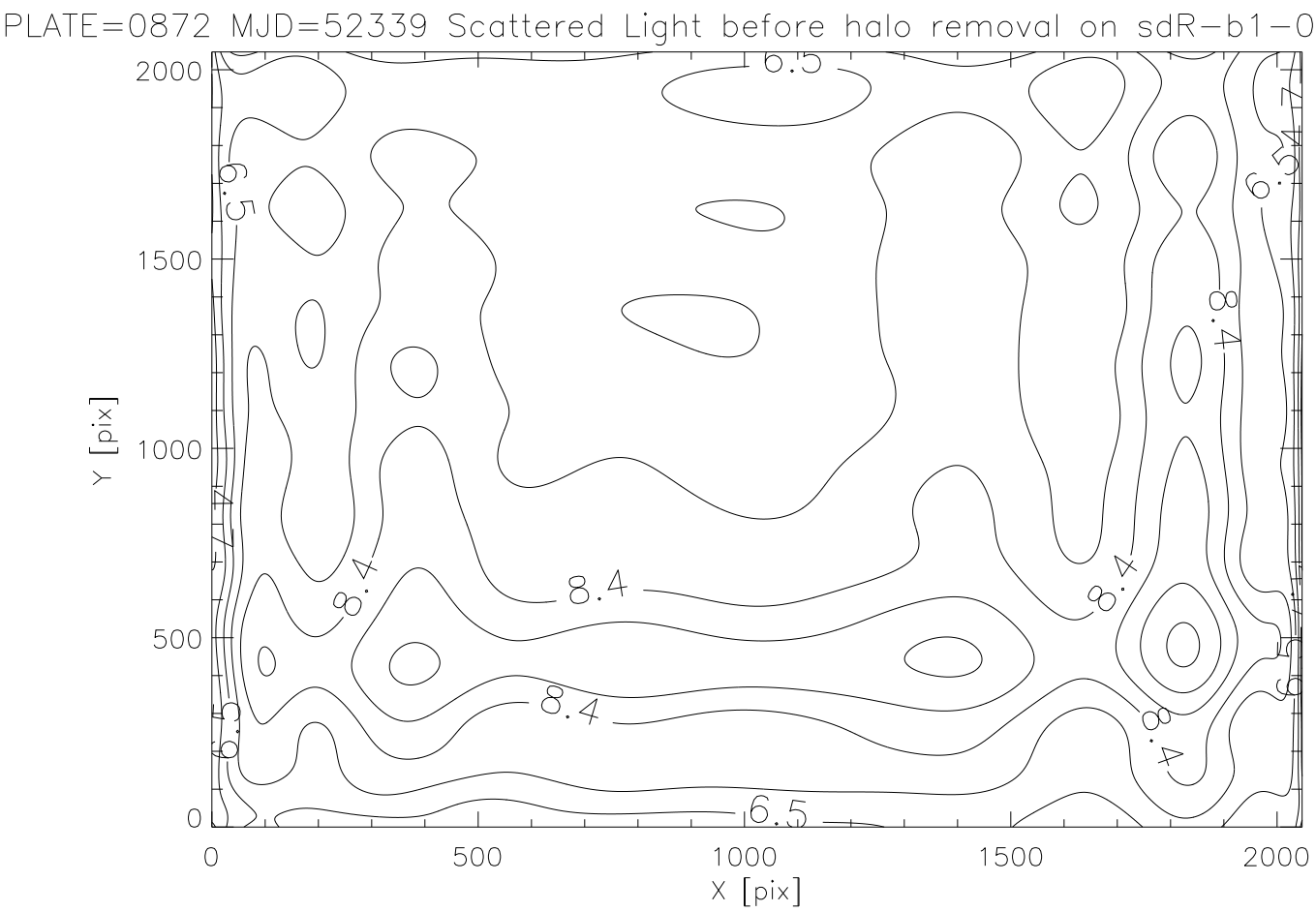

PLATE=0872 MJD=52339 sdR-b1-00013701.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
5000
4000
3000
2000
1000
0
−1000
5570
5575
5580
5585
5590
λ [A]

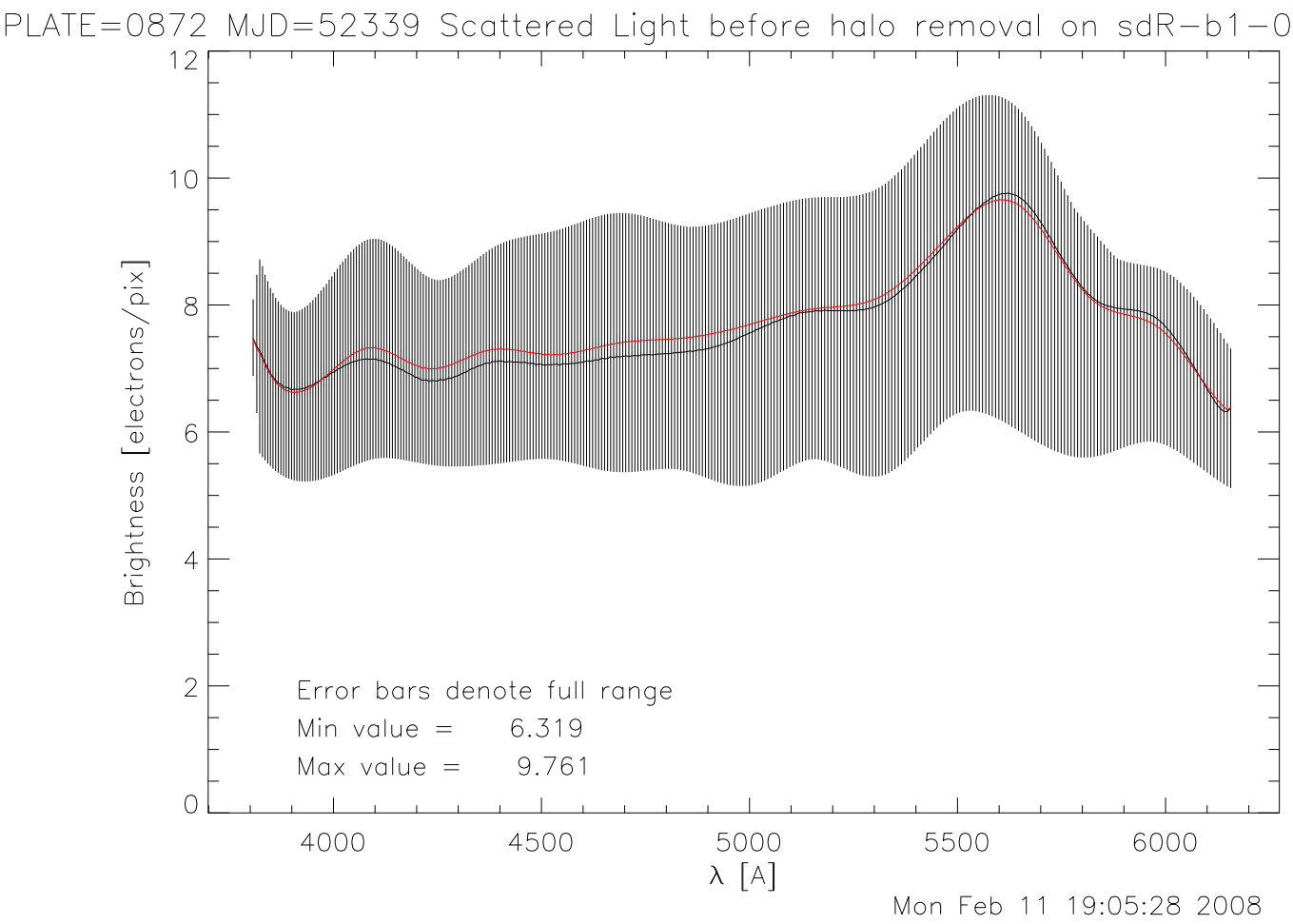

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b1-00013701.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

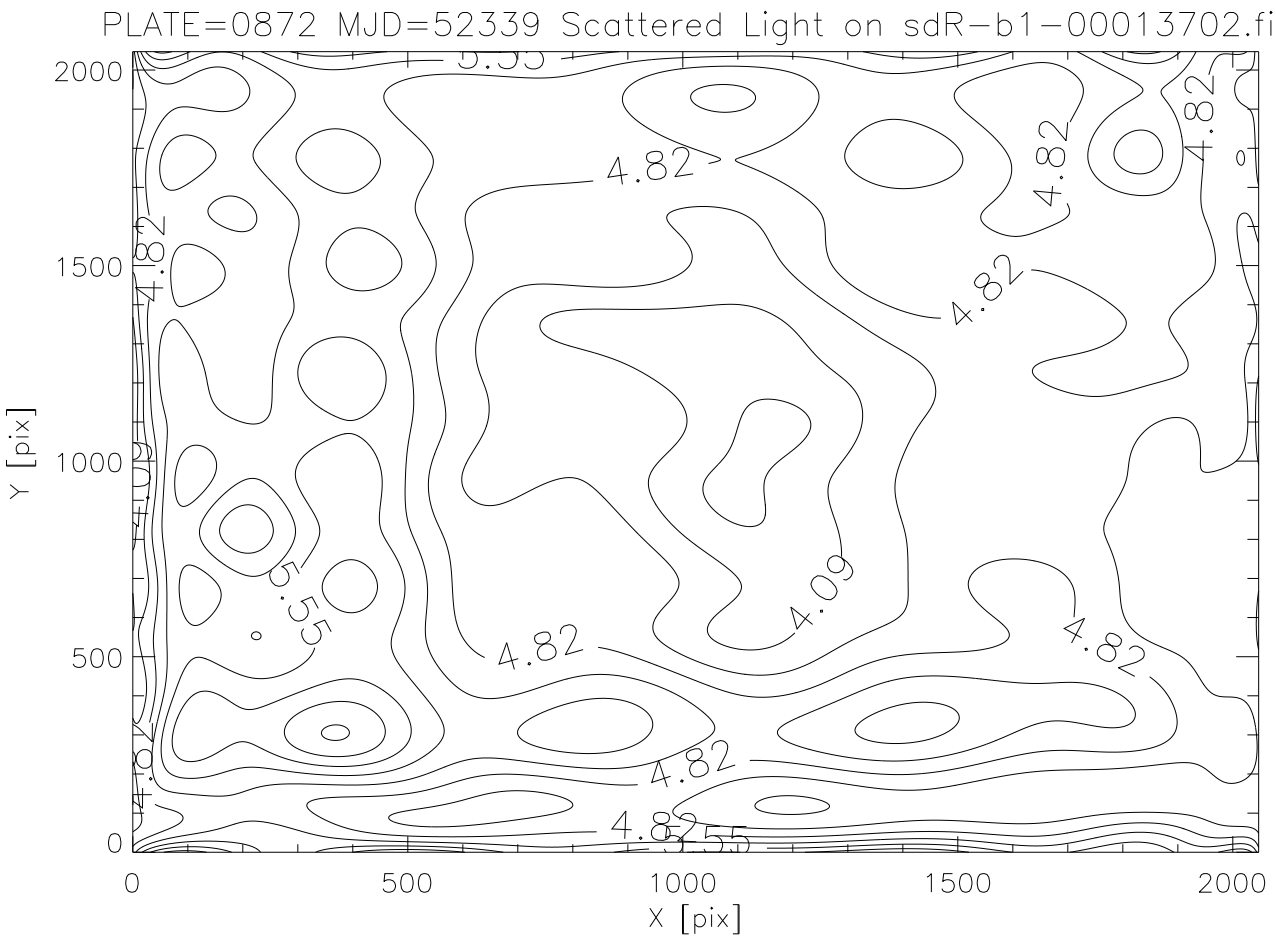

PLATE=0872 MJD=52339 sdR-b1-00013701.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 16.37 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

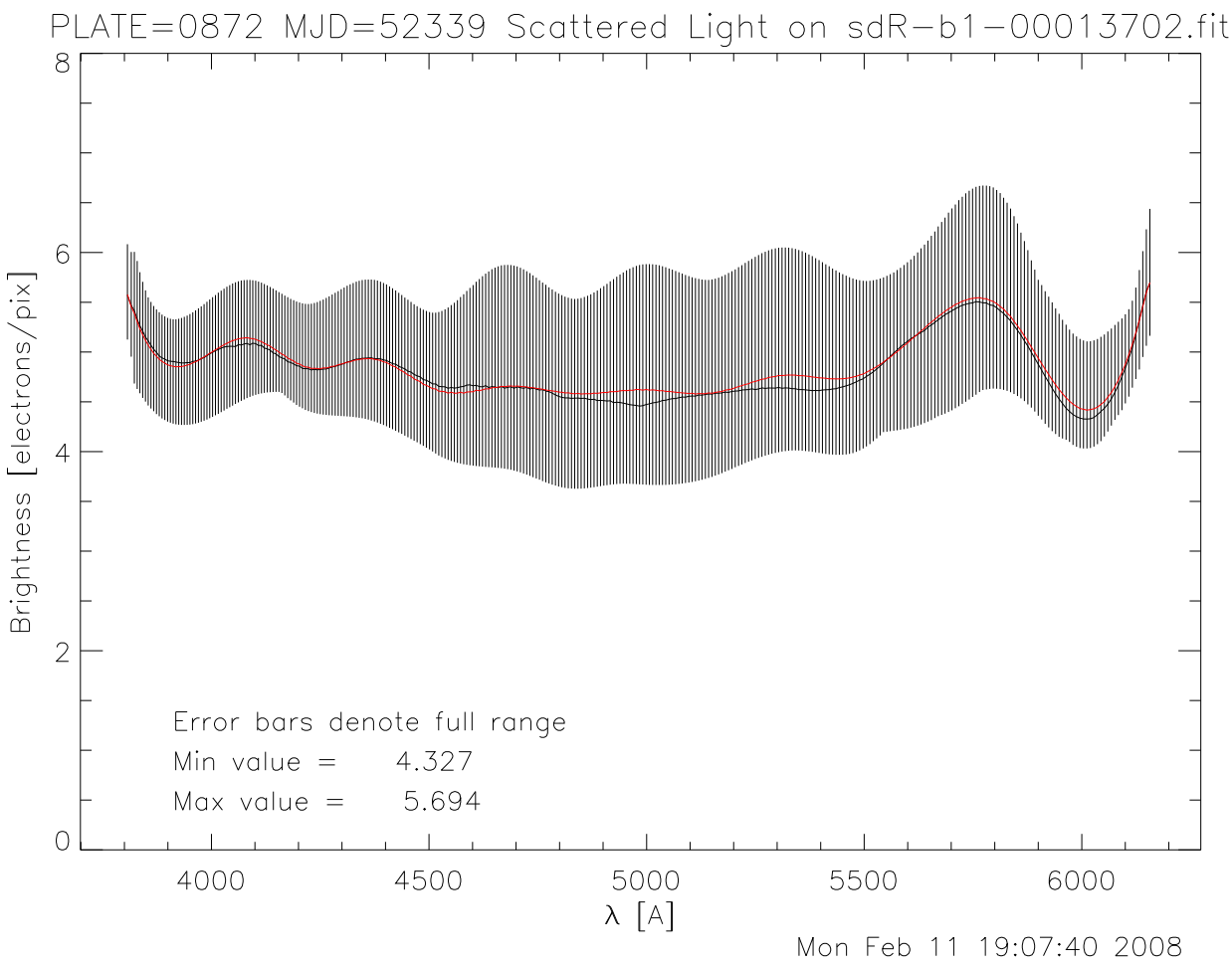

PLATE=0872 MJD=52339 sdR-b1-00013701.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.57 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

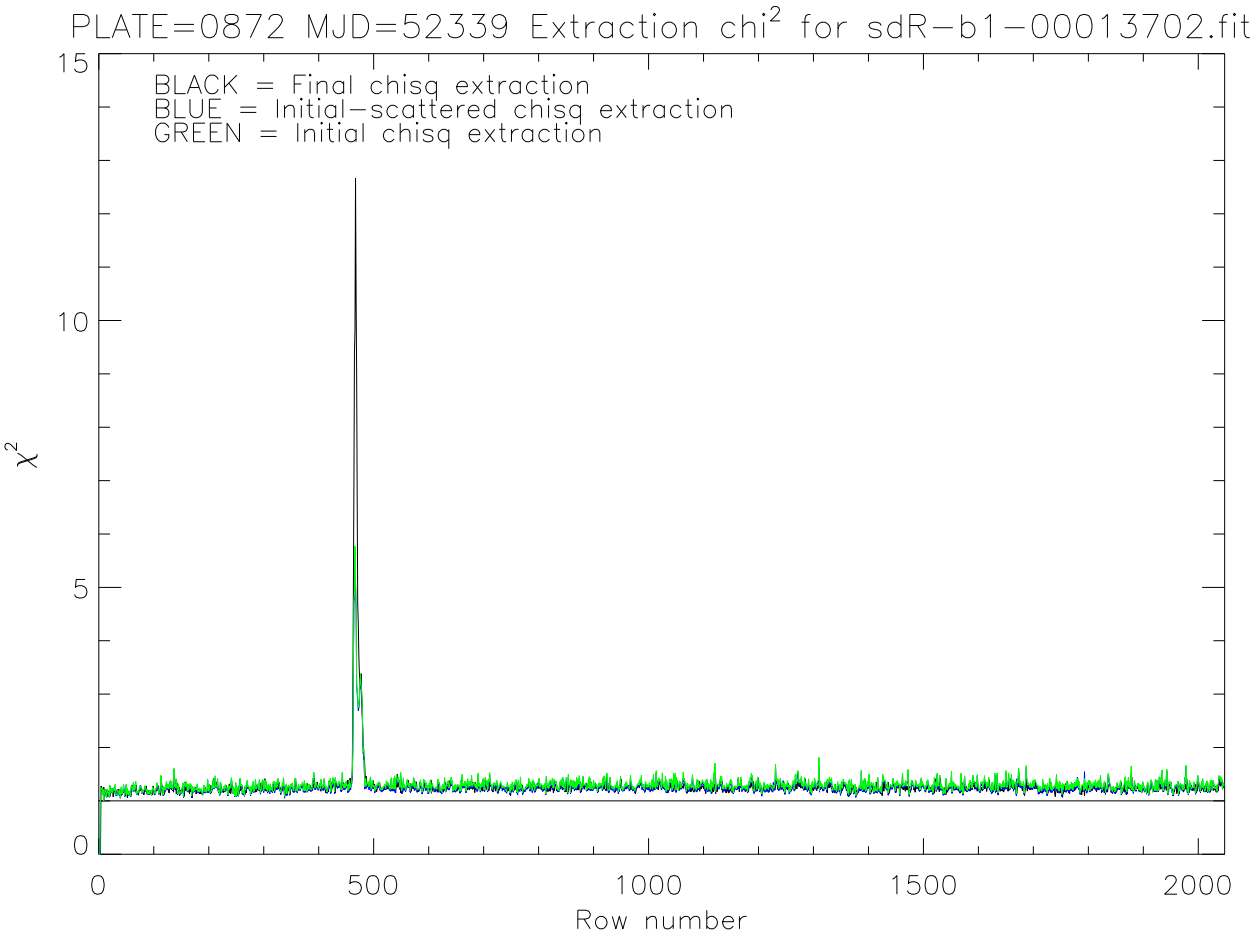

PLATE=0872 MJD=52339 Fiber-Flats for sdR-b1-00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.442
Max value = 1.257
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:04:40 2008

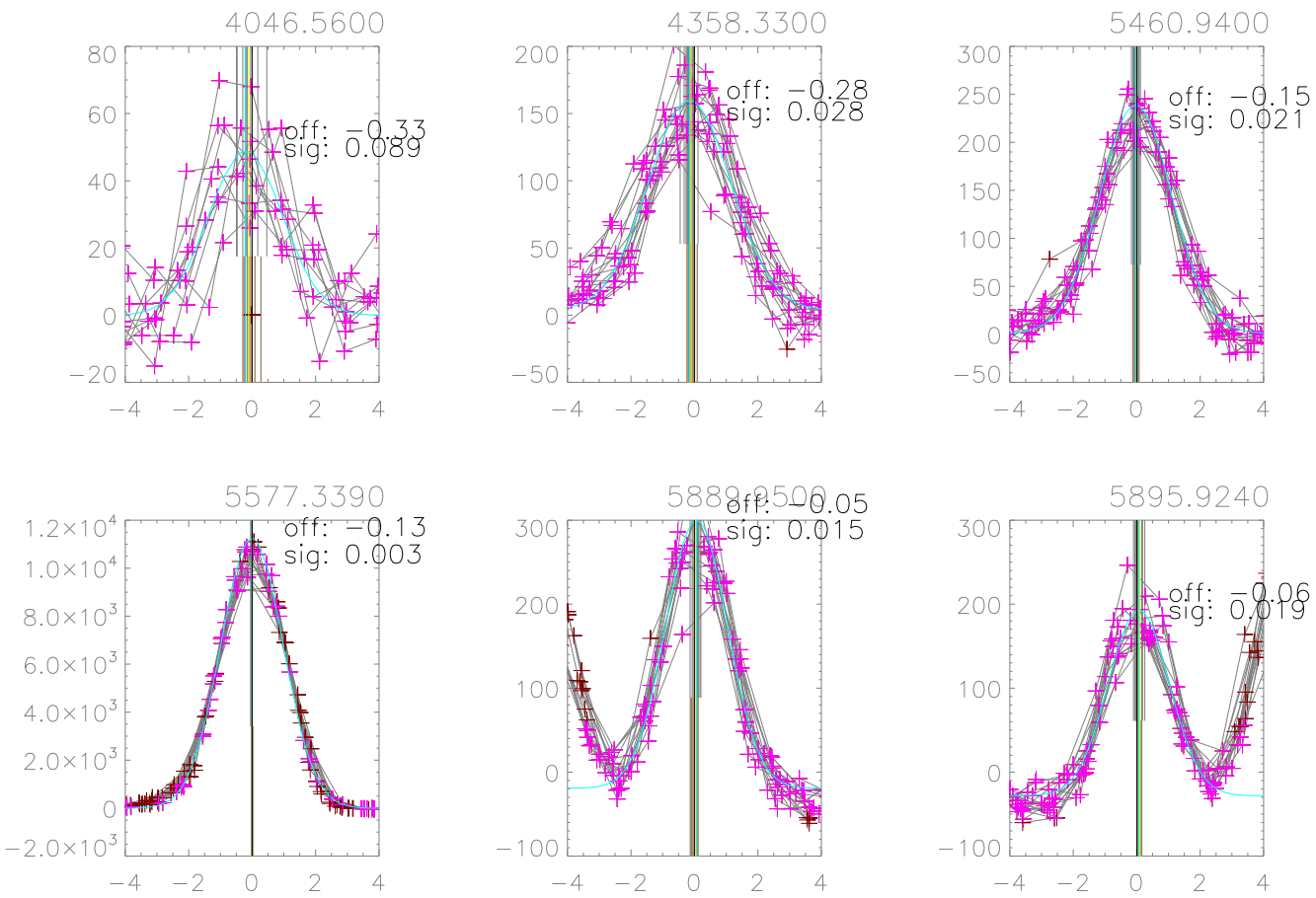

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b1-00013702.f
6.5
8.4
Y [pix]
X [pix]
0
500
1000
1500
2000

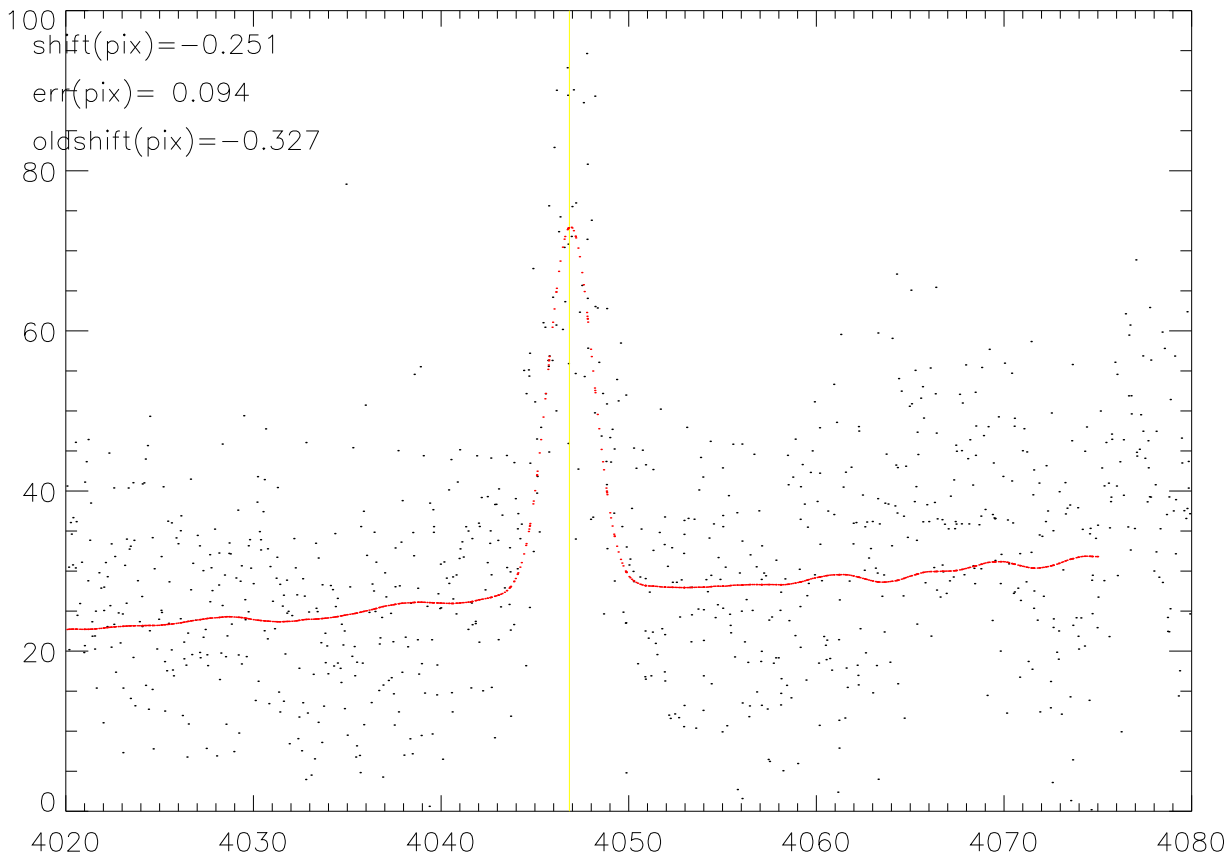

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b1-00013702.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.319
Max value = 9.761
Mon Feb 11 19:05:28 2008

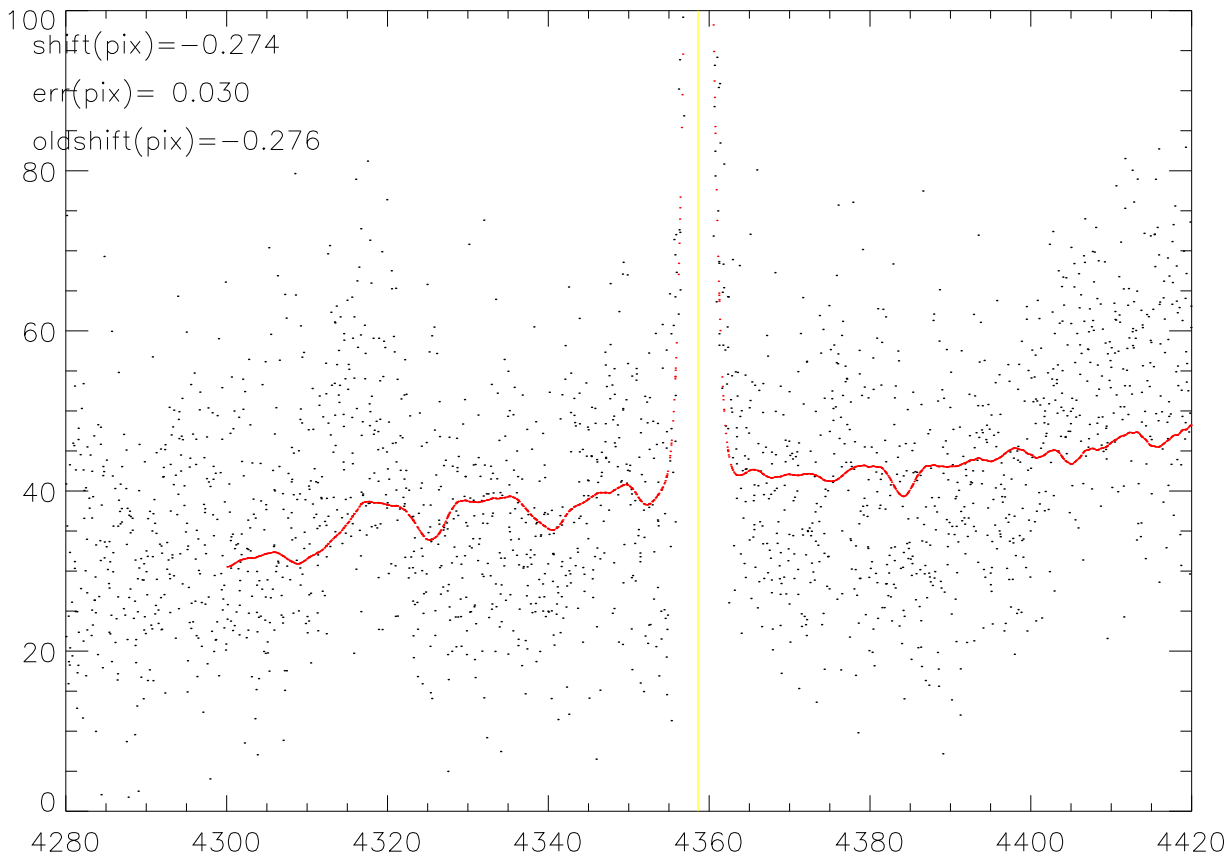

PLATE=0872 MJD=52339 Scattered Light on sdR-b1-00013702.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.82
4.09
5.55

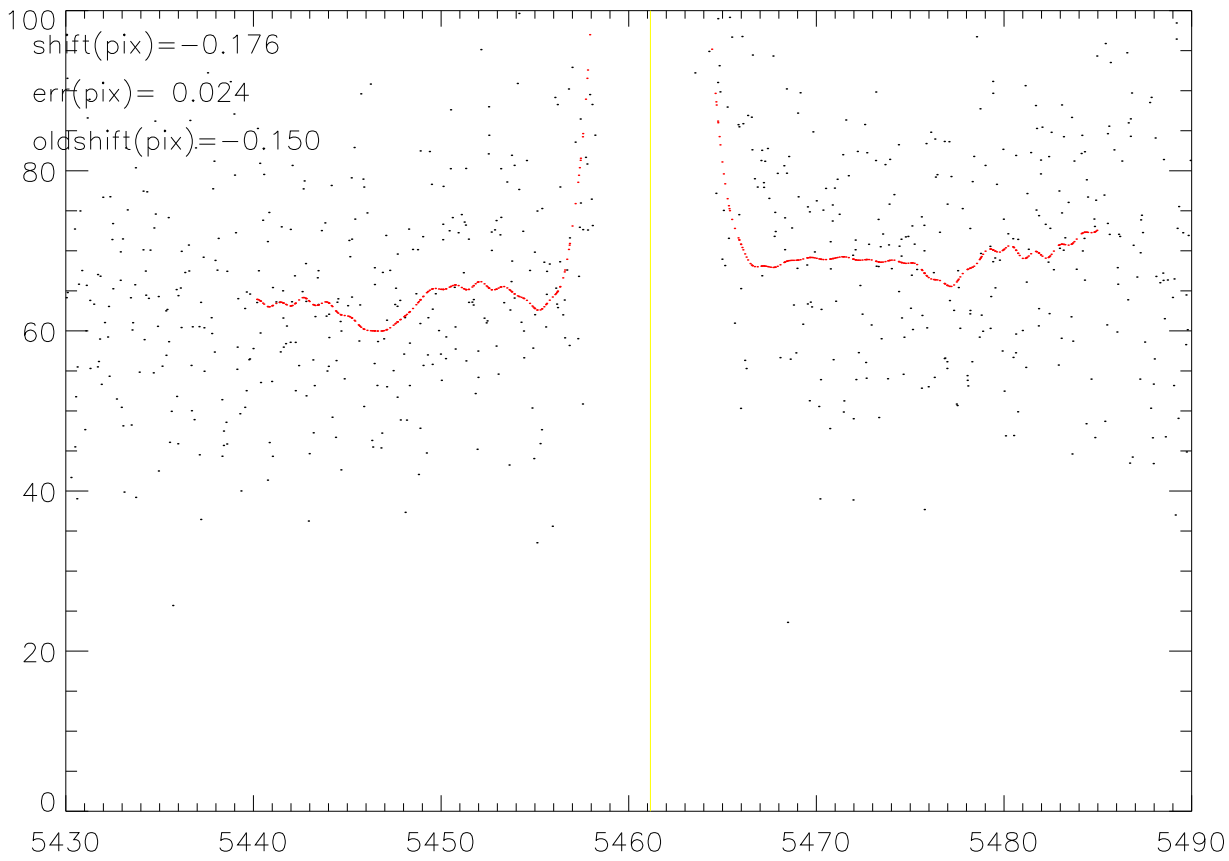

PLATE=0872 MJD=52339 Scattered Light on sdR-b1-00013702.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.327
Max value = 5.694
Mon Feb 11 19:07:40 2008

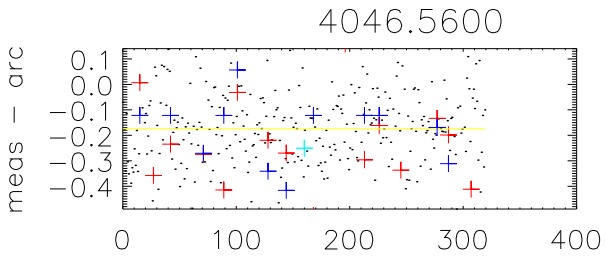

PLATE=0872 MJD=52339 Extraction chi^2 for sdR−b1−00013702.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
15
10
5
0
0
500
1000
1500
2000
Row number

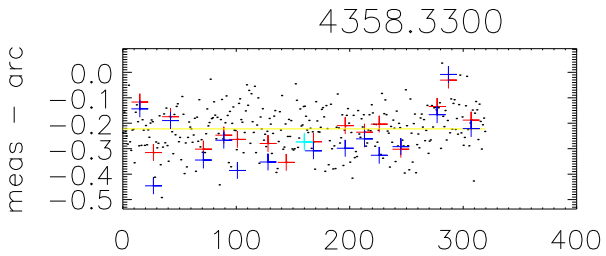

4046.5600
off: −0.33
sig: 0.089
4358.3300
off: −0.28
sig: 0.028
5460.9400
off: −0.15
sig: 0.021
5577.3390
off: −0.13
sig: 0.003
5889.9500
off: −0.05
sig: 0.015
5895.9240
off: −0.06
sig: 0.019

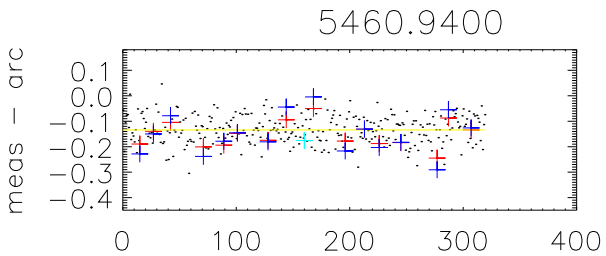

shift(pix)=−0.251
err(pix)= 0.094
oldshift(pix)=−0.327
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

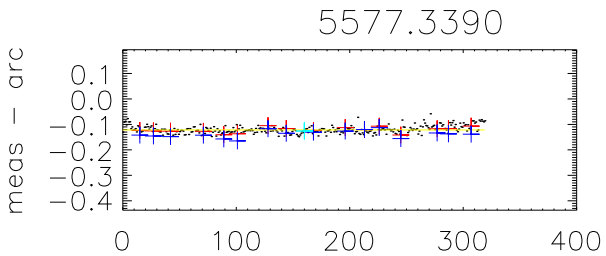

shift(pix)=−0.274
err(pix)= 0.030
oldshift(pix)=−0.276
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

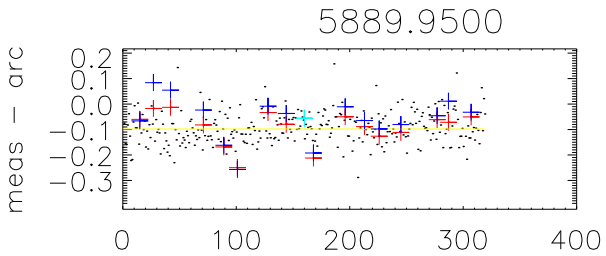

shift(pix)=−0.176
err(pix)= 0.024
oldshift(pix)=−0.150
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

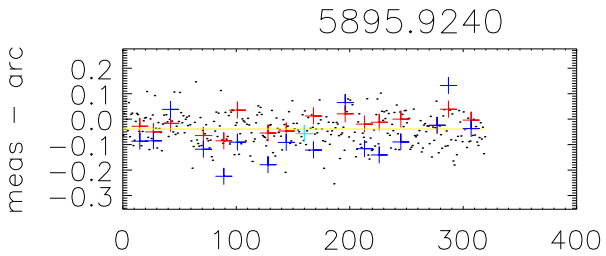

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

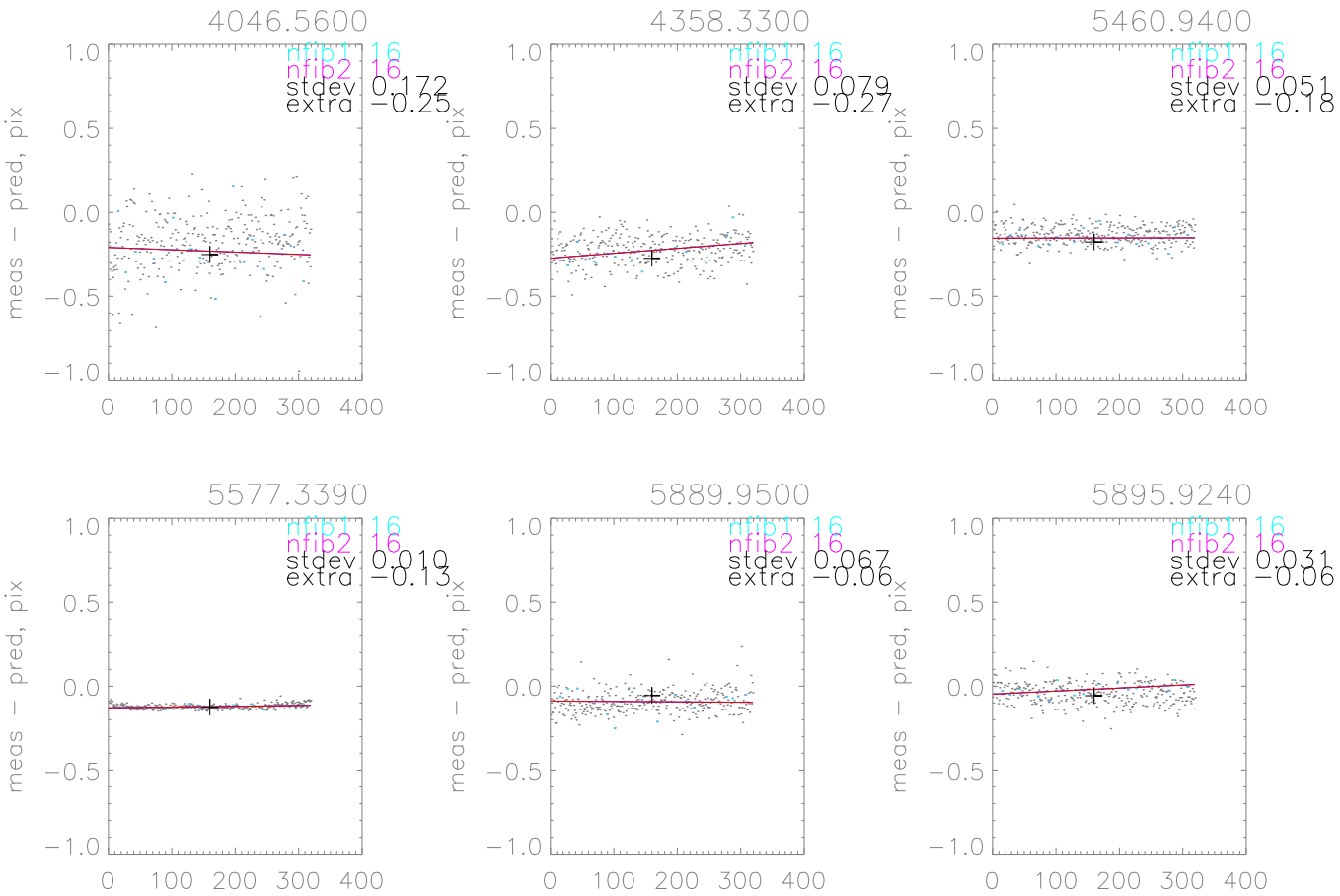

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

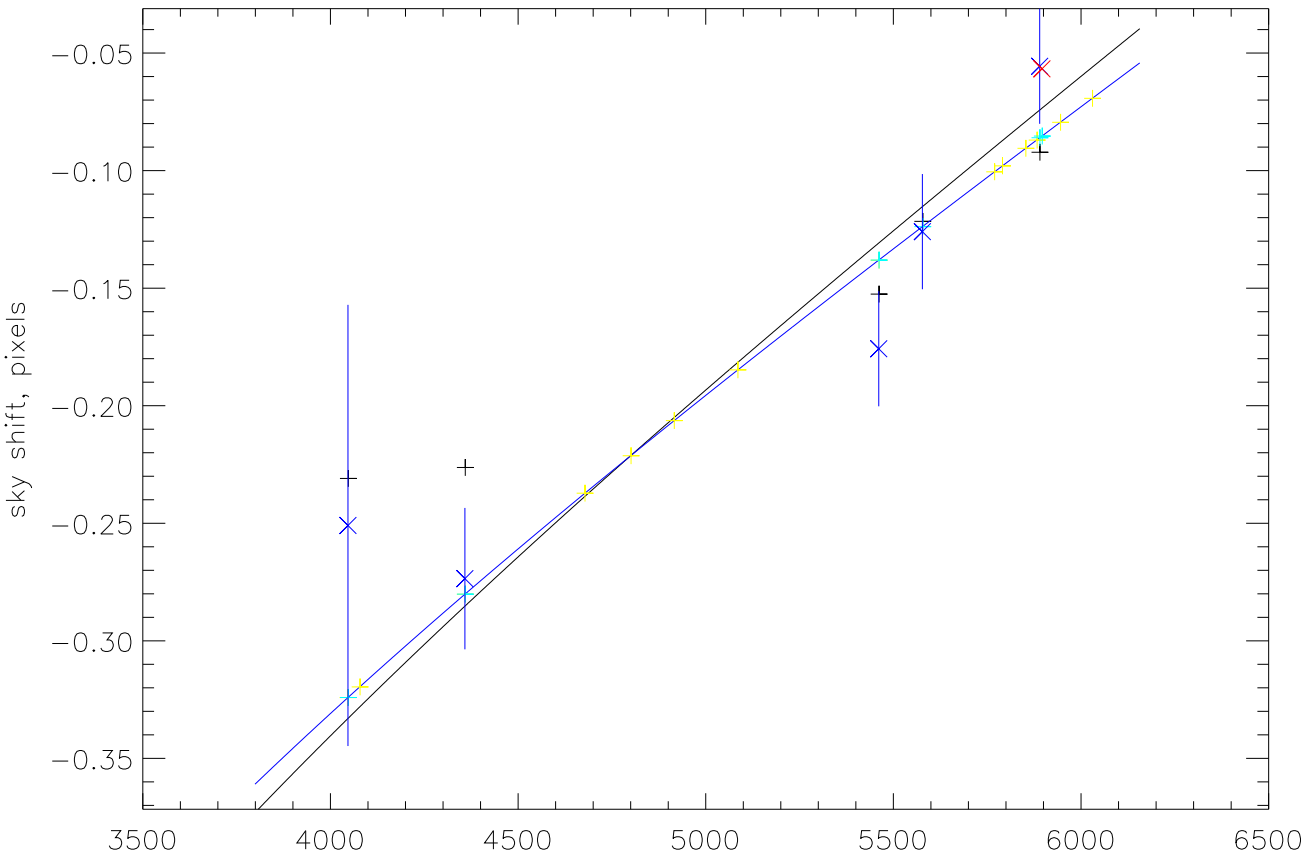

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

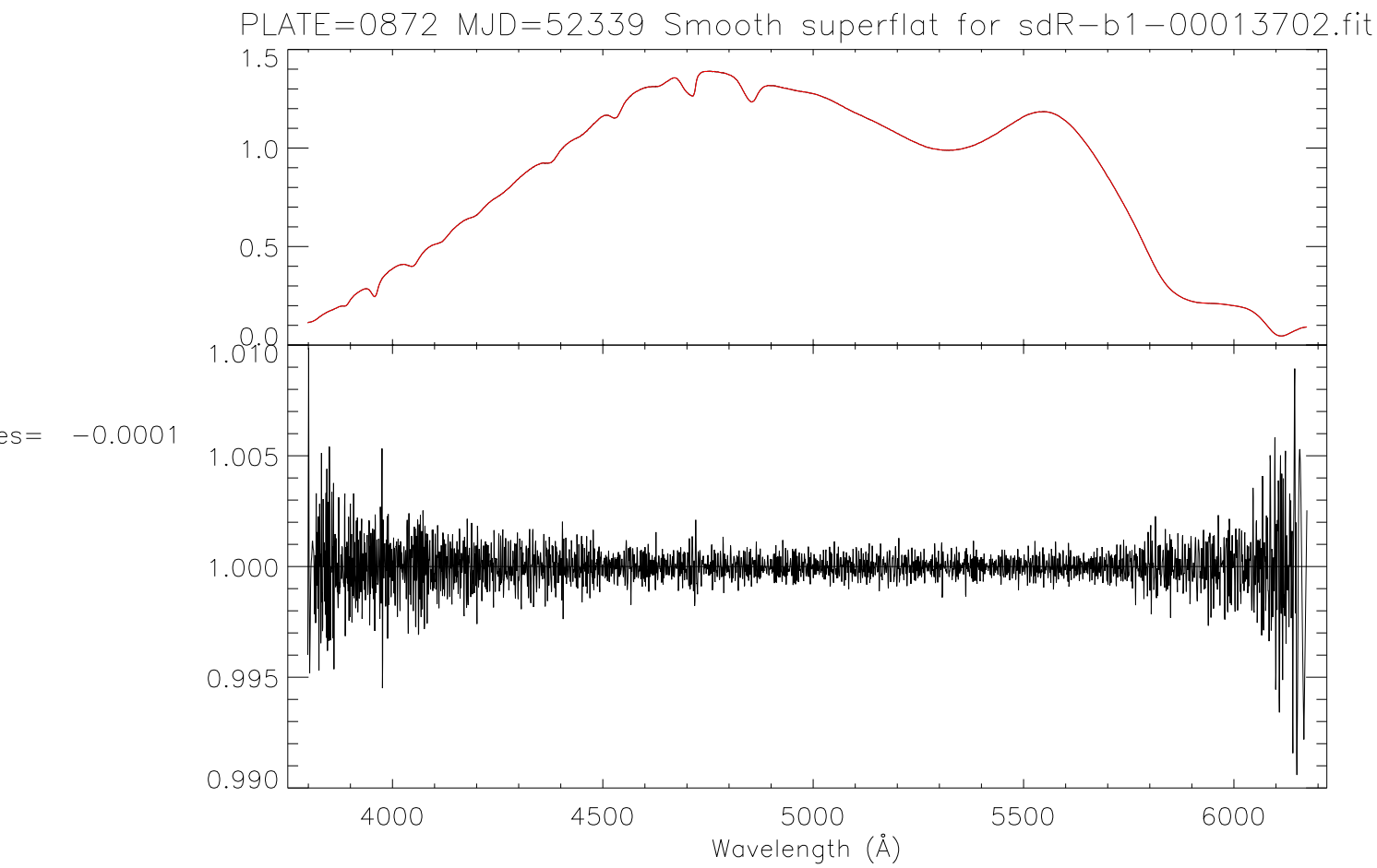

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

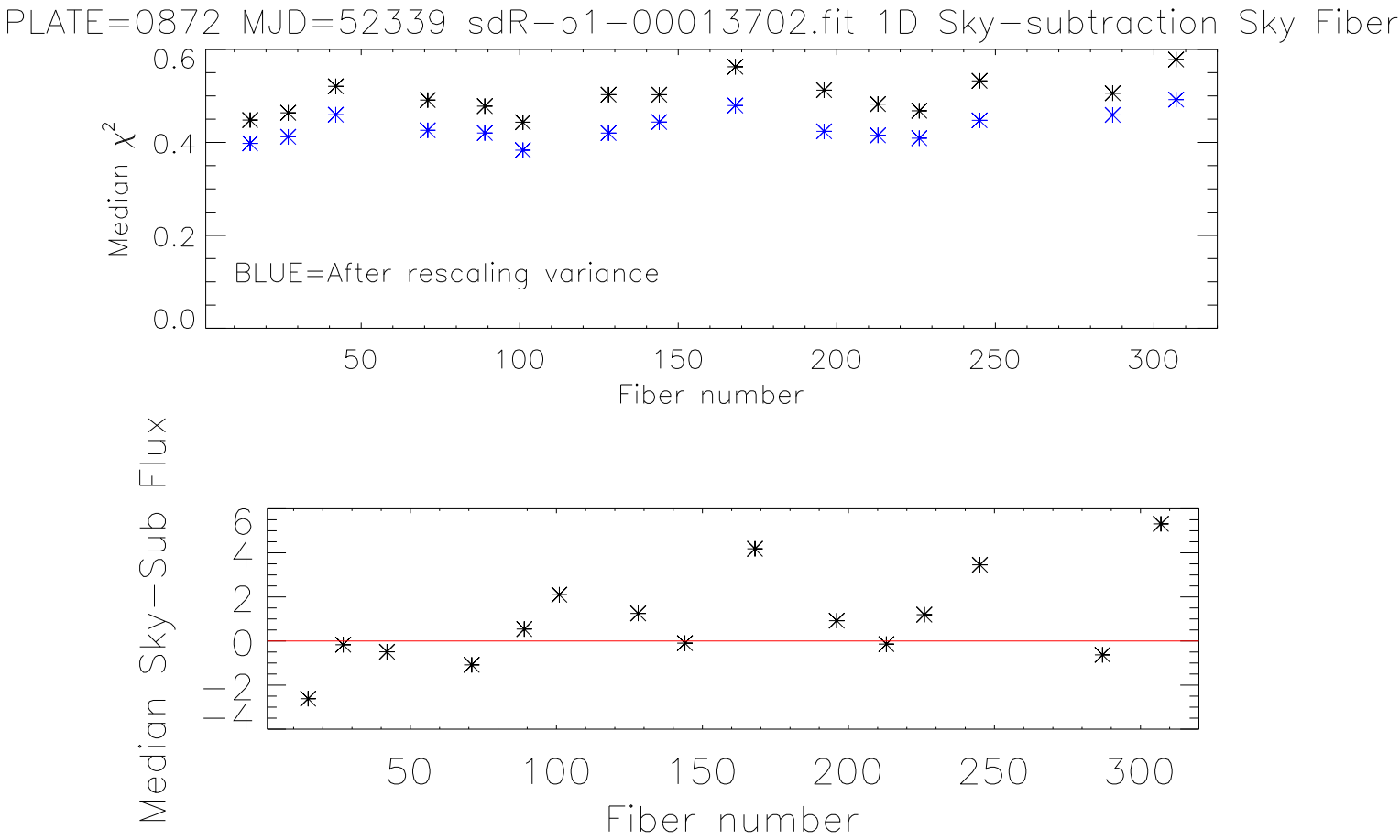

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

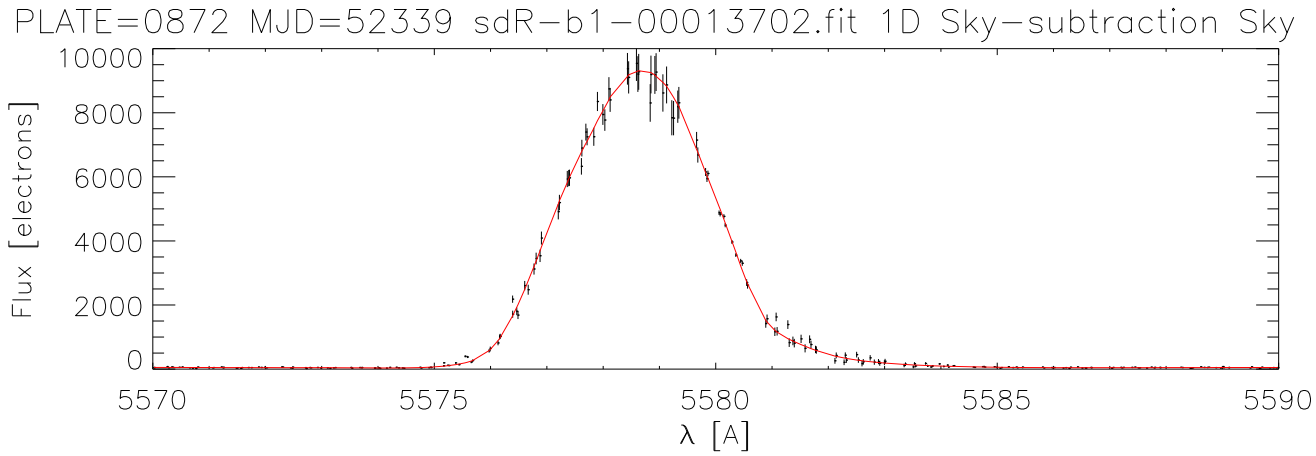

4046.5600
nfib1 16
nfib2 16
stdev 0.172
extra −0.25
4358.3300
nfib1 16
nfib2 16
stdev 0.079
extra −0.27
5460.9400
nfib1 16
nfib2 16
stdev 0.051
extra −0.18
5577.3390
nfib1 16
nfib2 16
stdev 0.010
extra −0.13
5889.9500
nfib1 16
nfib2 16
stdev 0.067
extra −0.06
5895.9240
nfib1 16
nfib2 16
stdev 0.031
extra −0.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

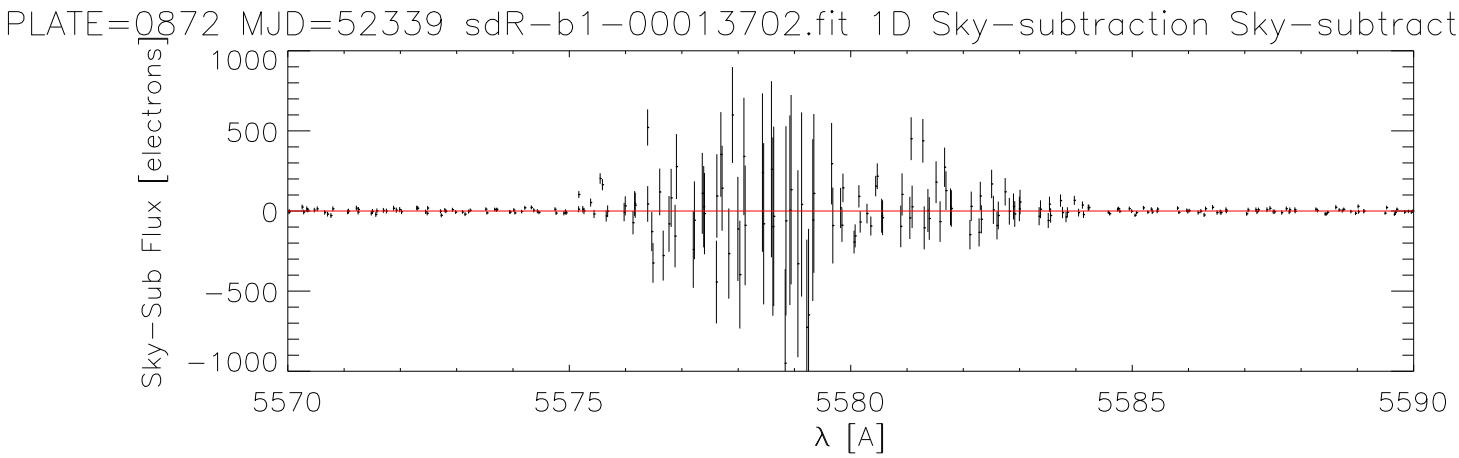

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
3500
4000
4500
5000
5500
6000
6500

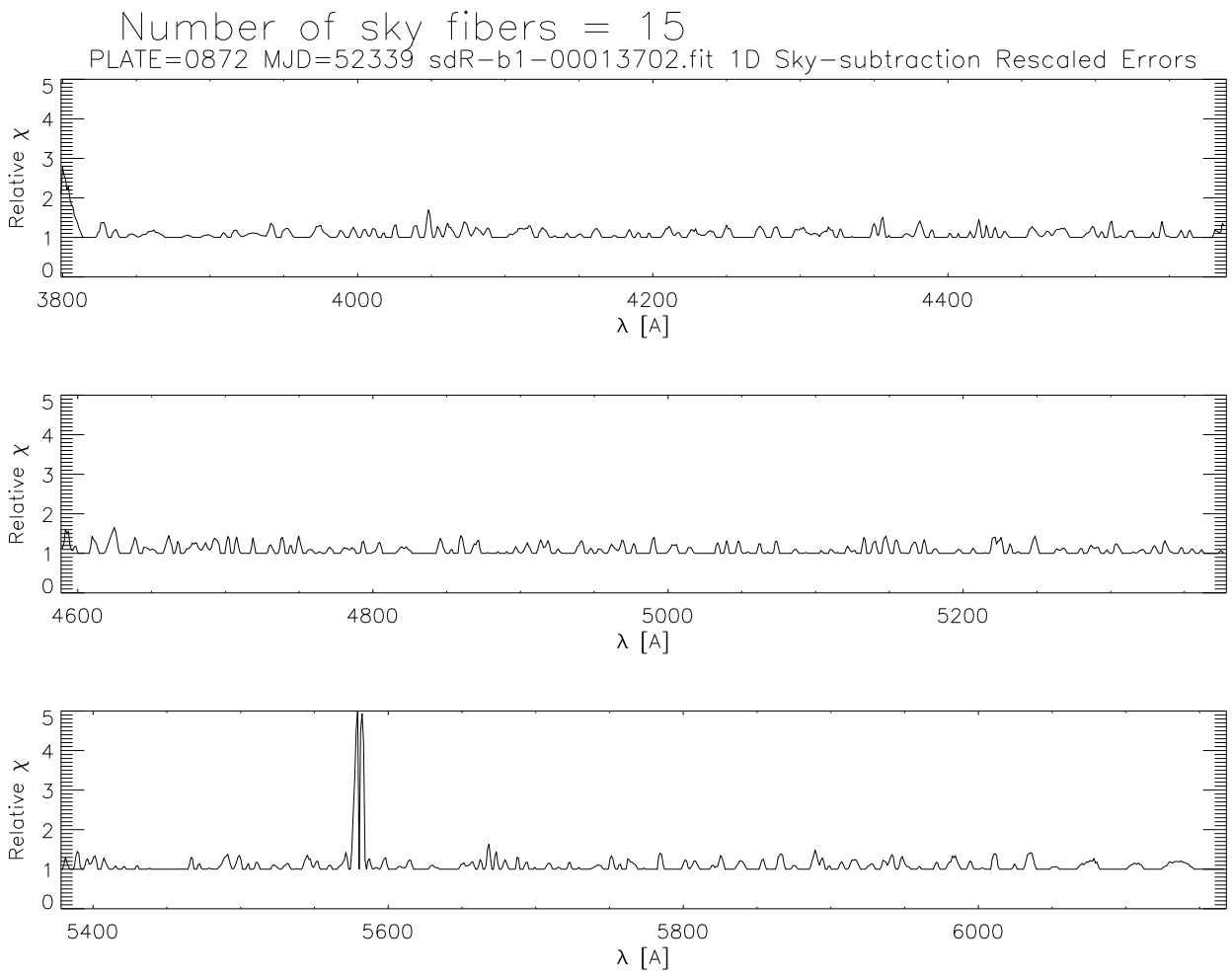

PLATE=0872 MJD=52339 Smooth superflat for sdR-b1-00013702.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

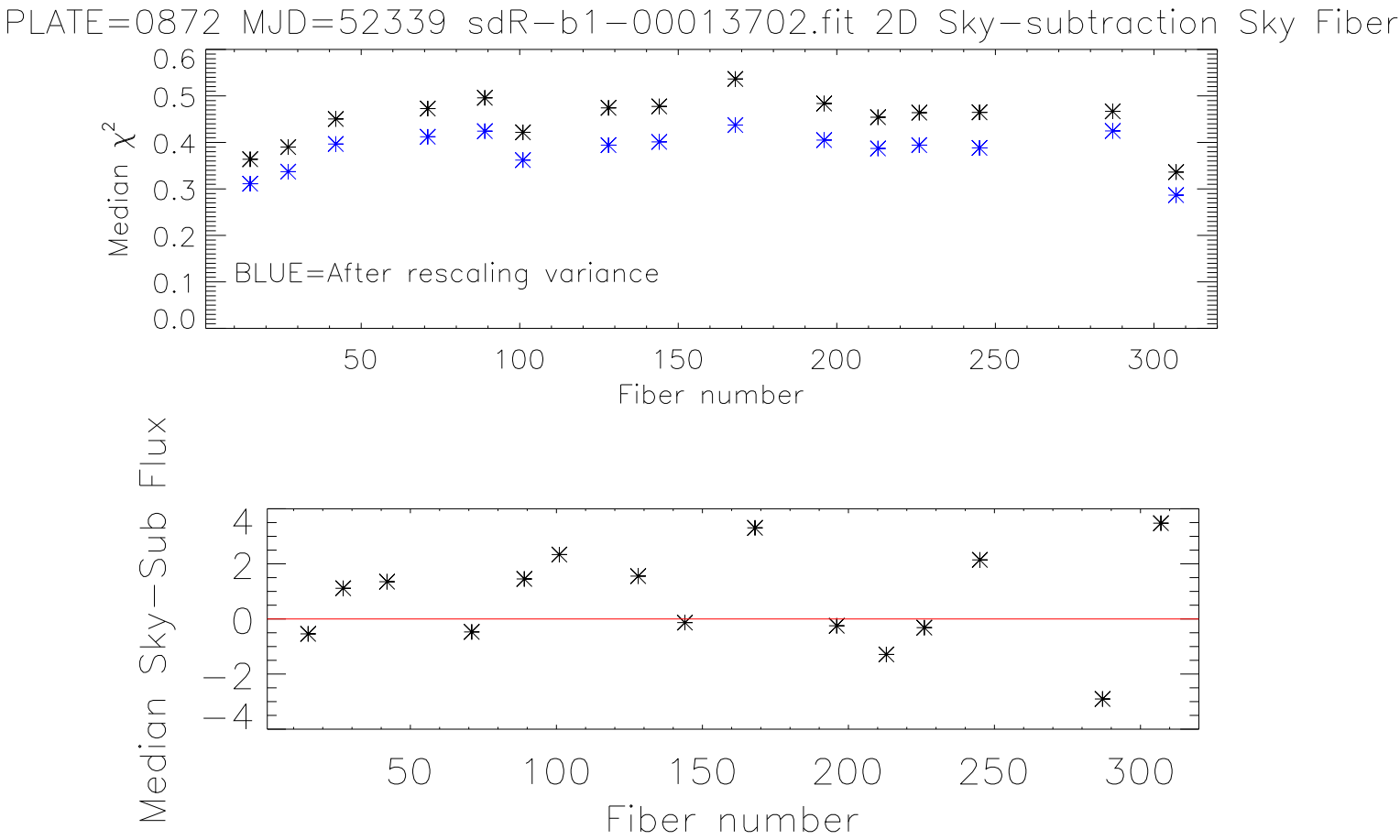
es= −0.0001

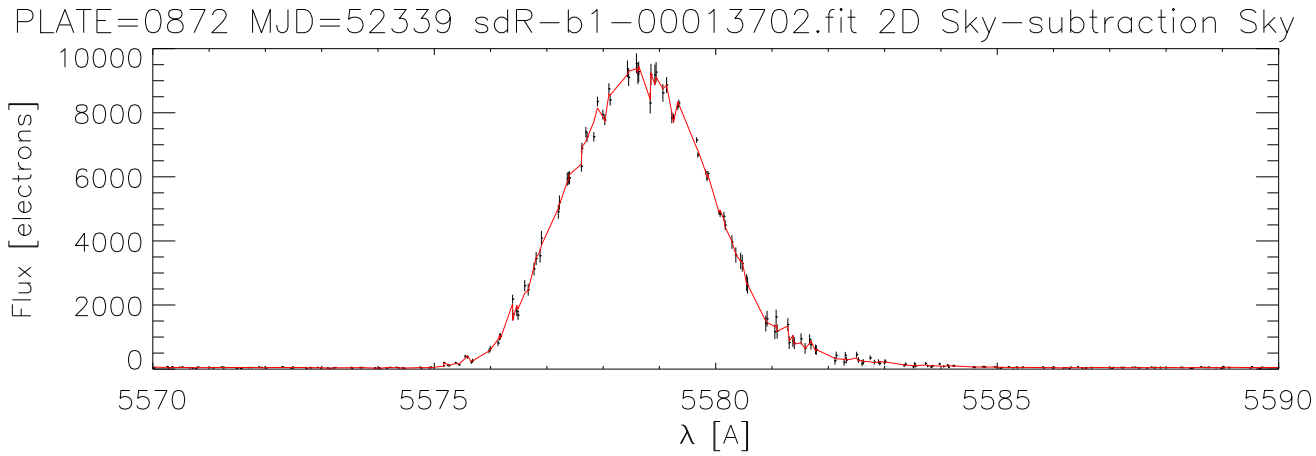

PLATE=0872 MJD=52339 sdR-b1-00013702.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

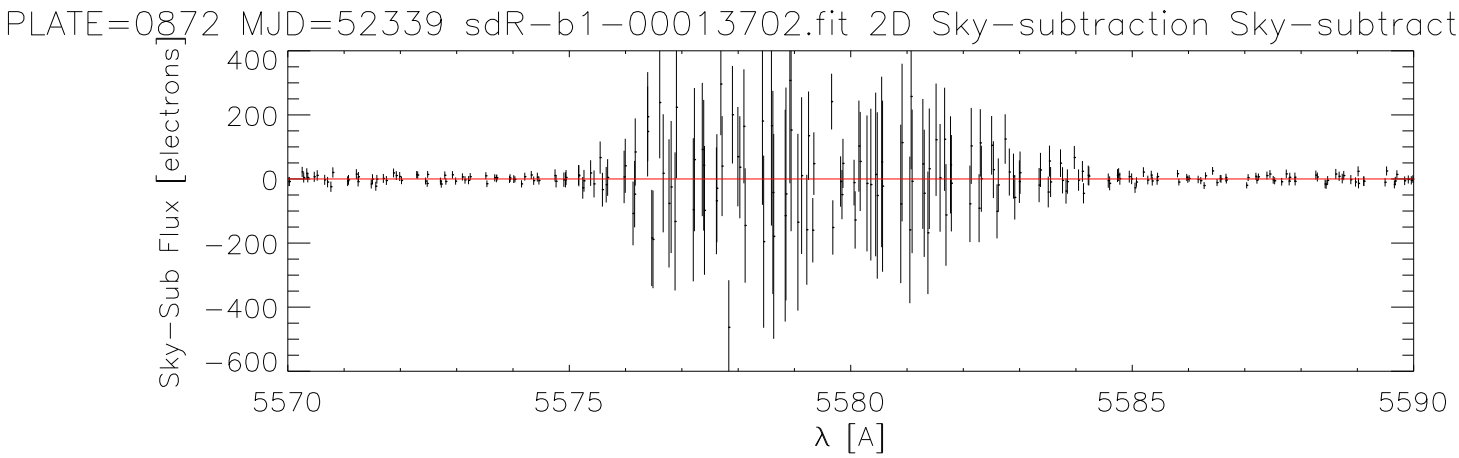

PLATE=0872 MJD=52339 sdR-b1-00013702.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

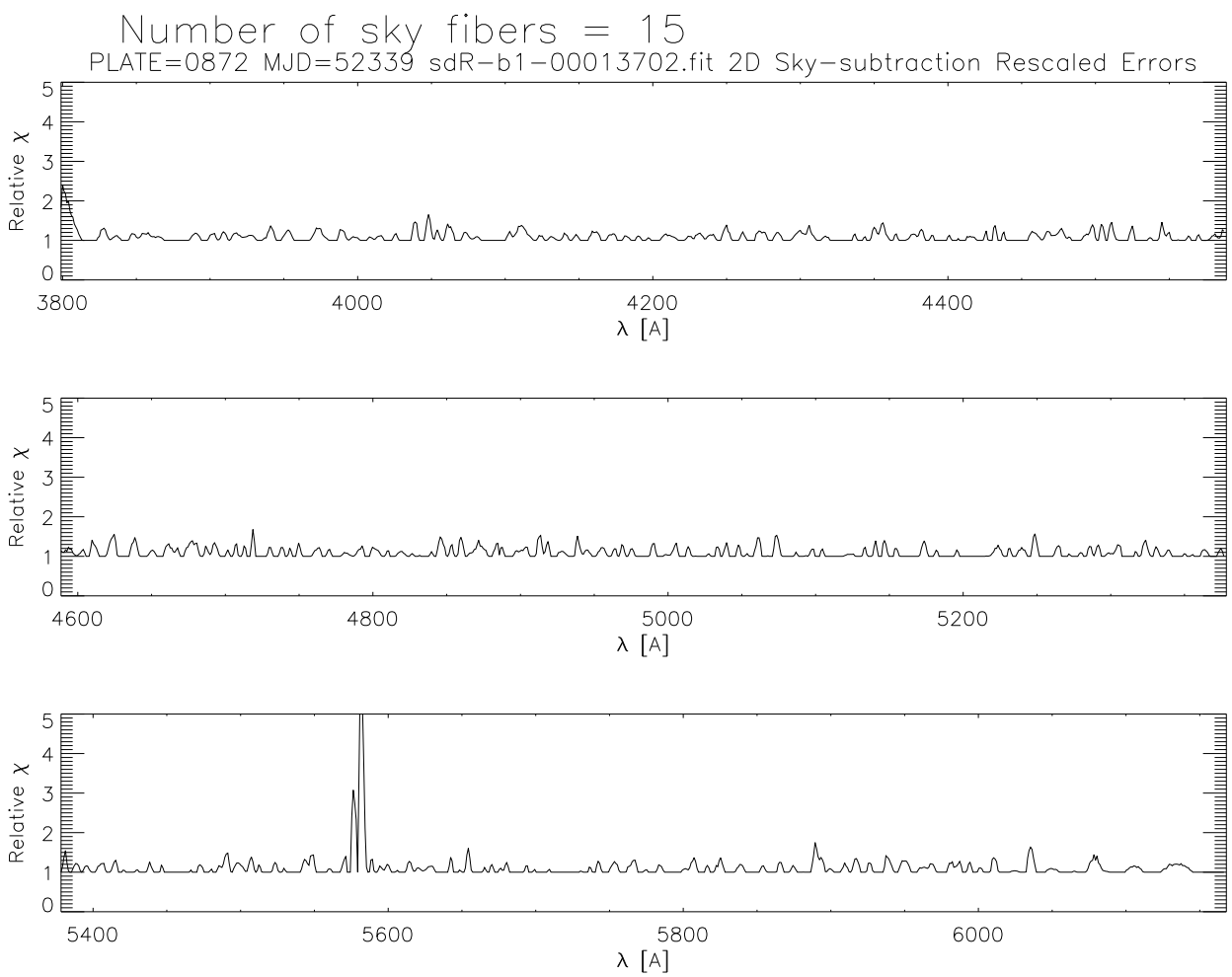

PLATE=0872 MJD=52339 sdR-b1-00013702.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

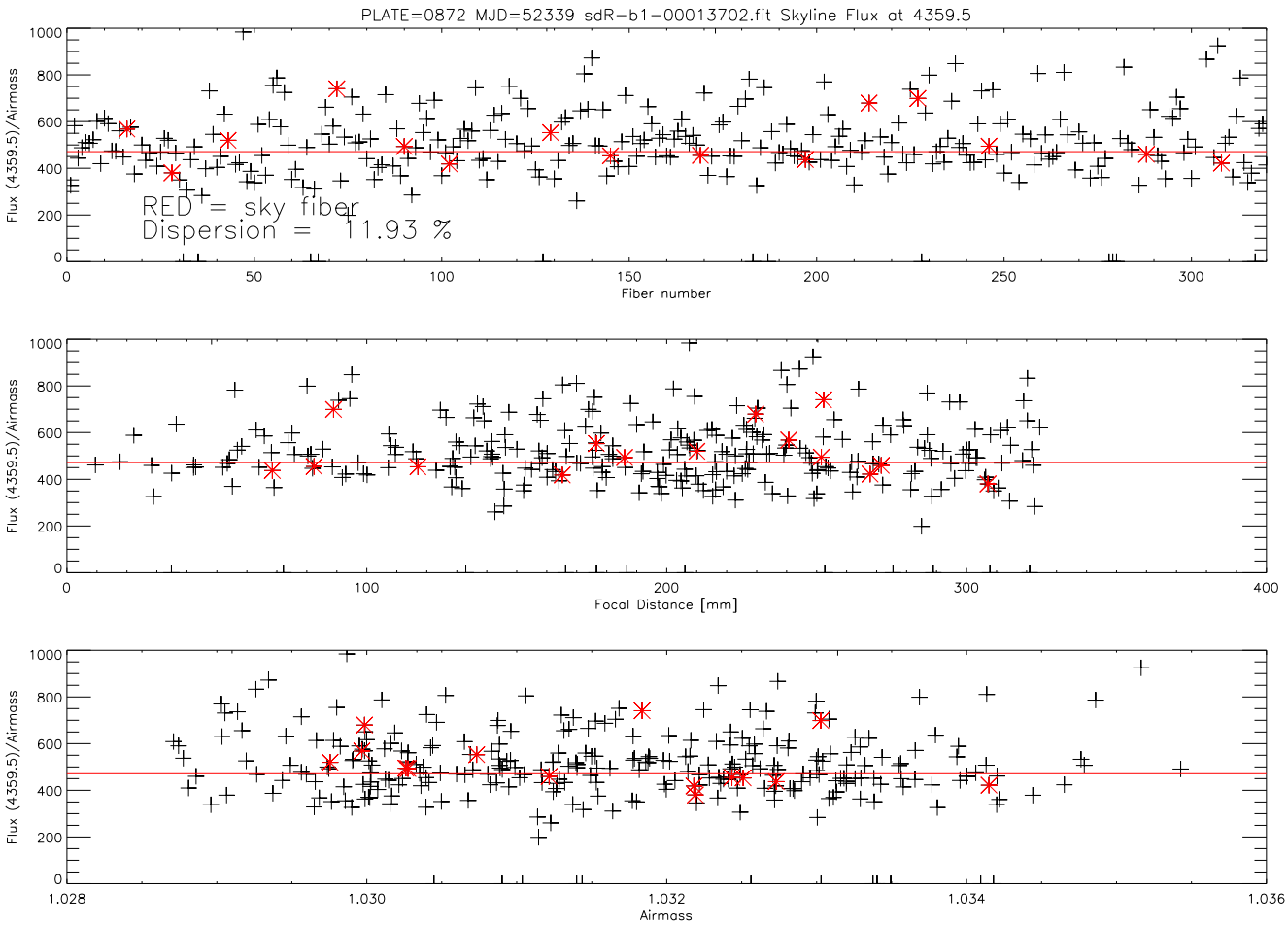

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b1-00013702.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

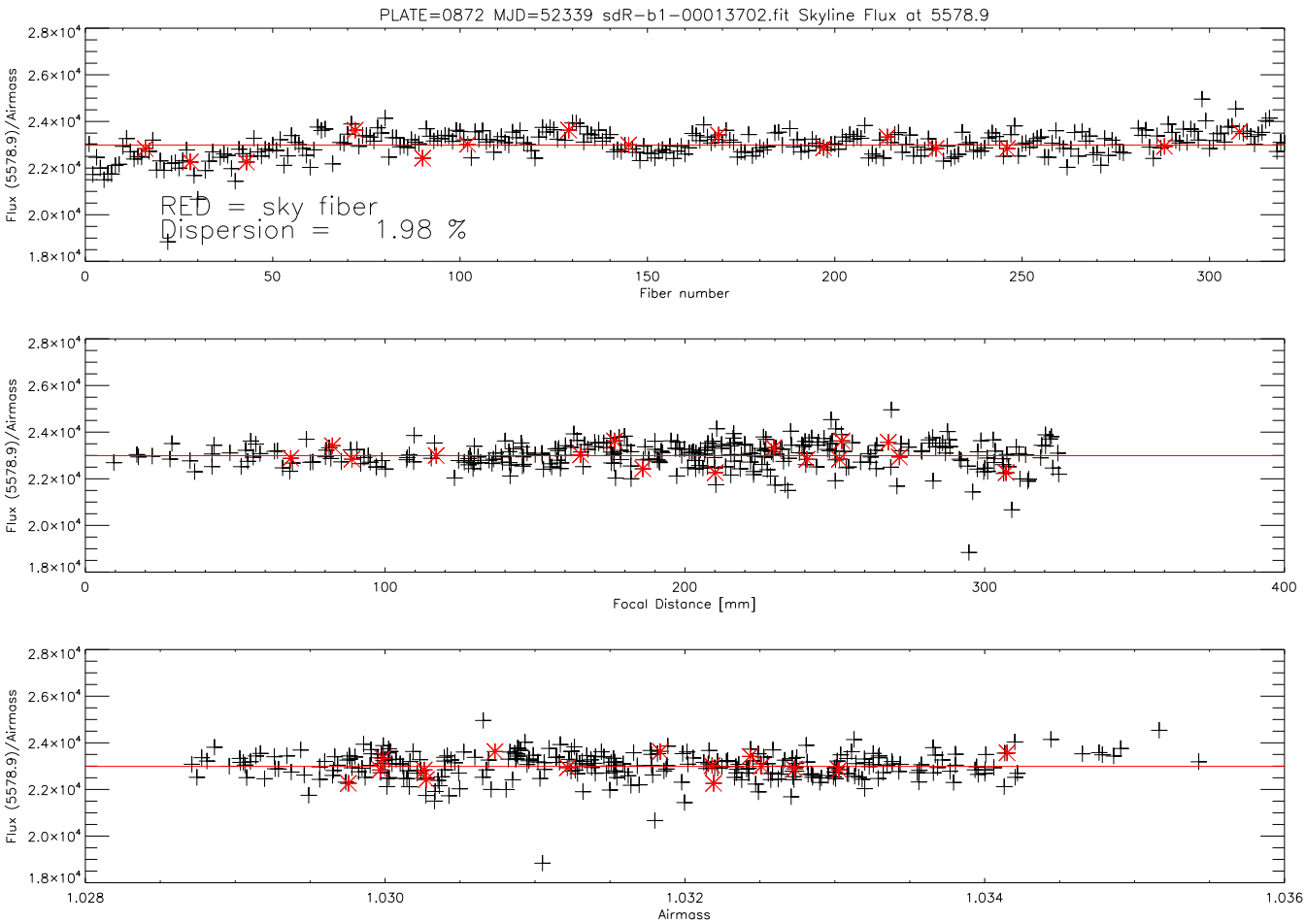

PLATE=0872 MJD=52339 sdR-b1-00013702.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

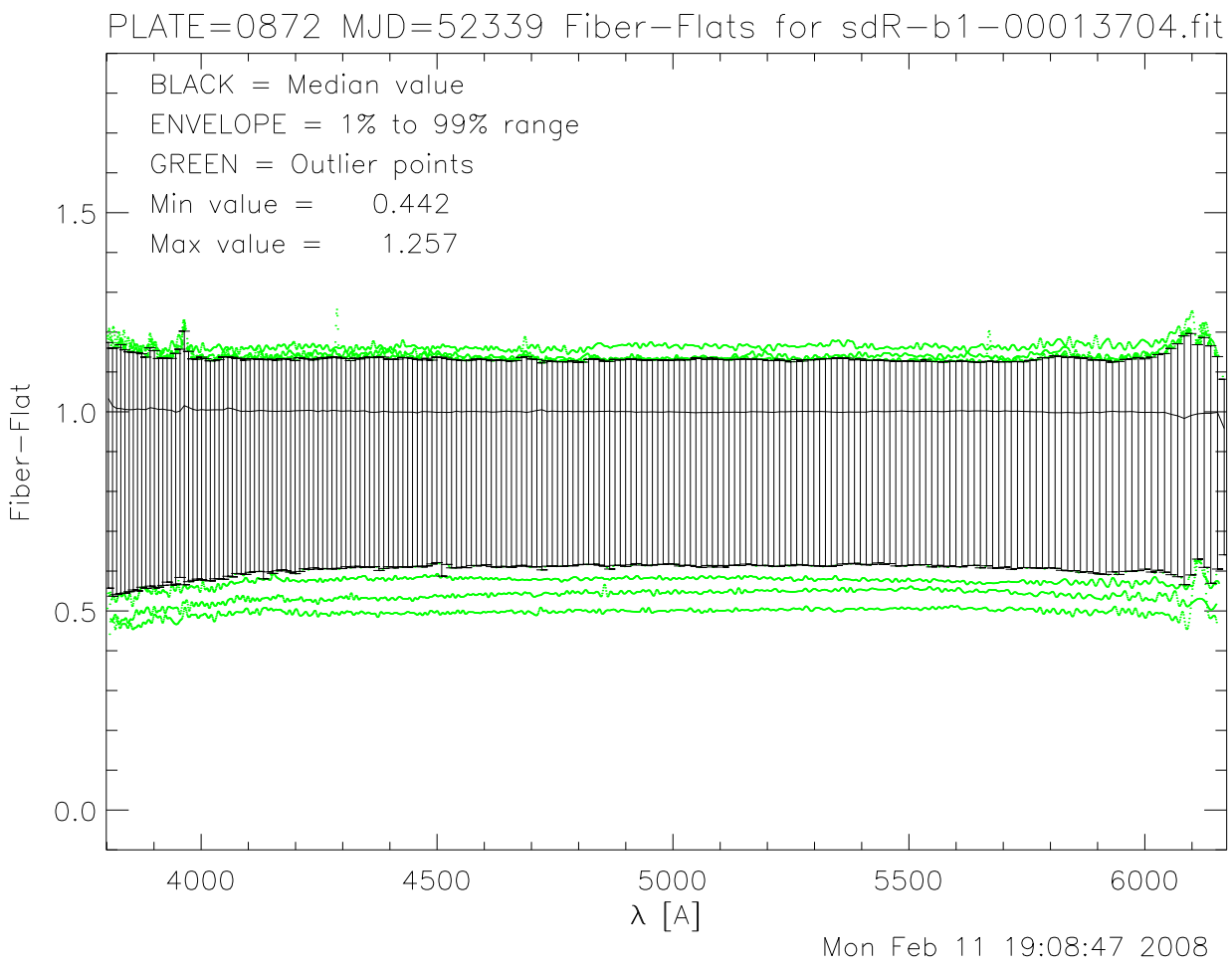

PLATE=0872 MJD=52339 sdR-b1-00013702.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

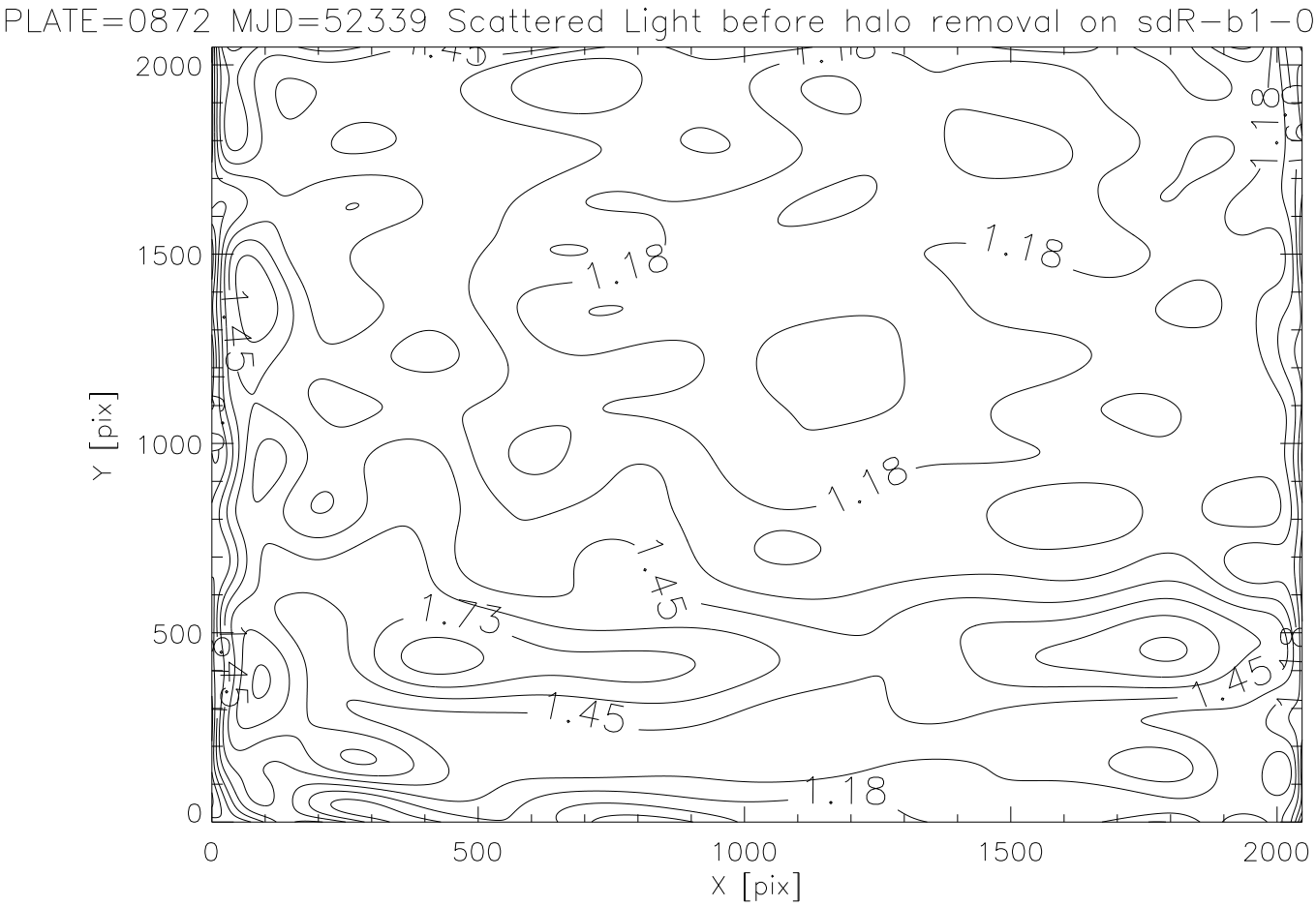

PLATE=0872 MJD=52339 sdR-b1-00013702.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

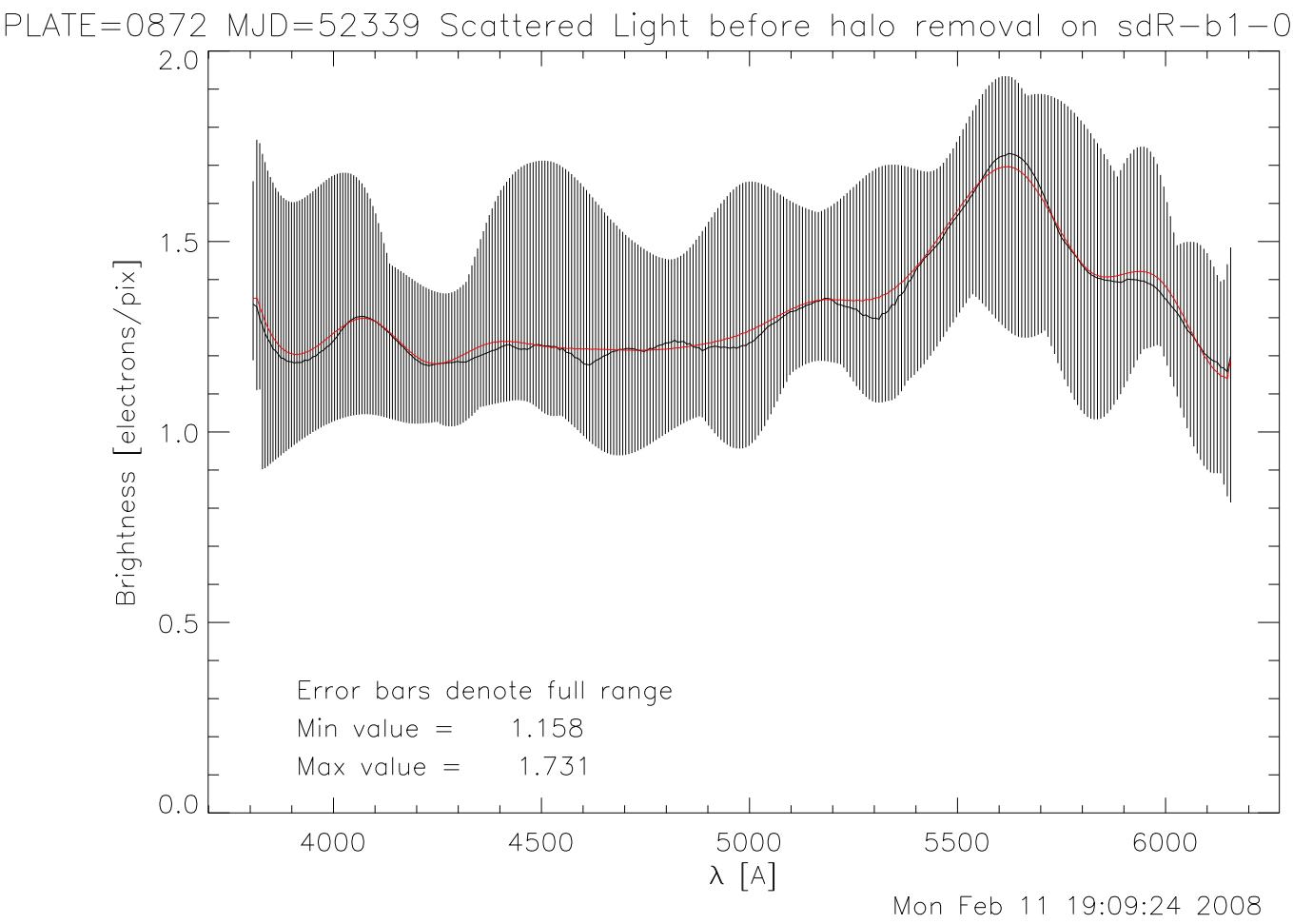

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b1-00013702.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

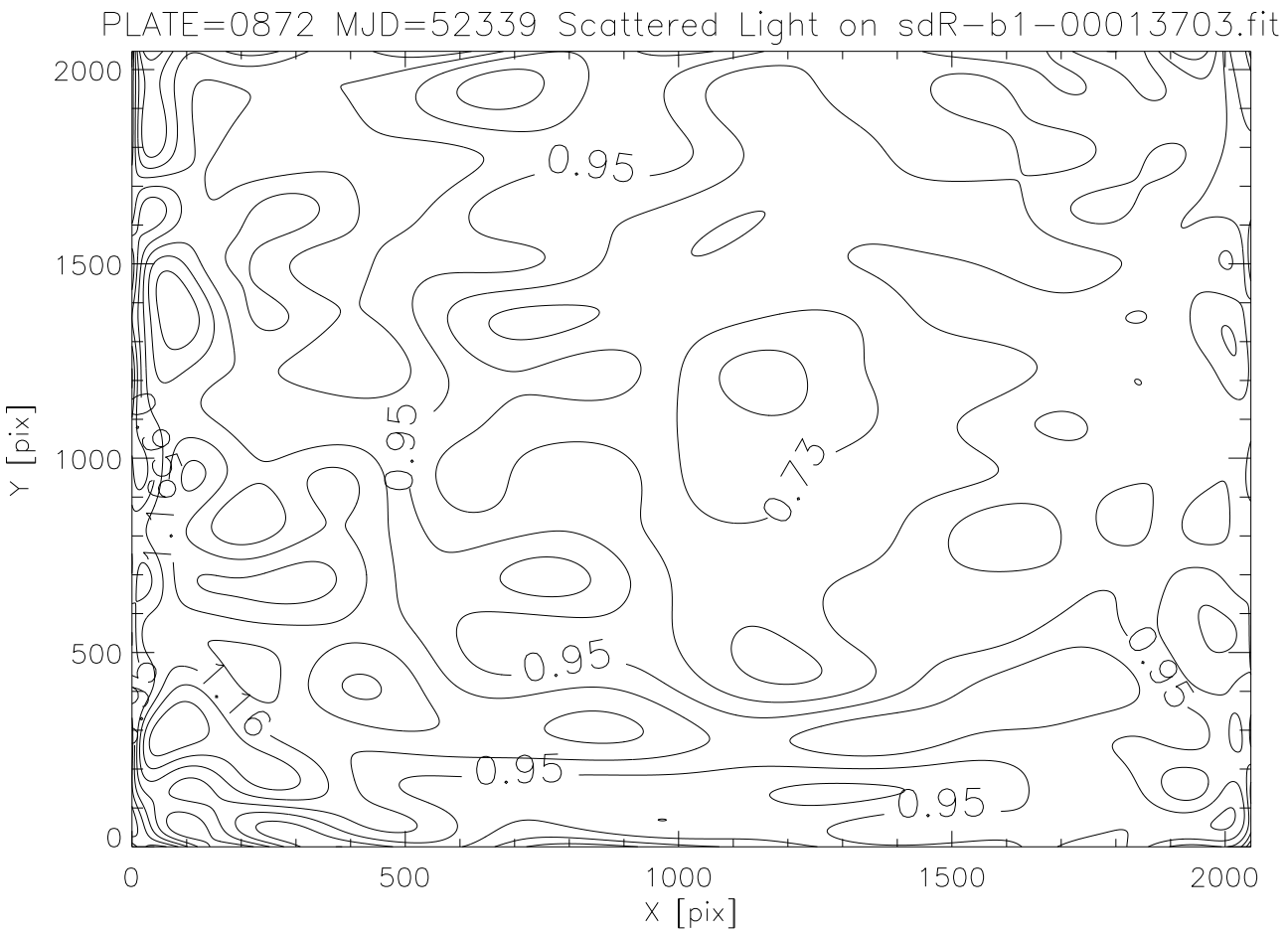

PLATE=0872 MJD=52339 sdR-b1-00013702.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.93 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

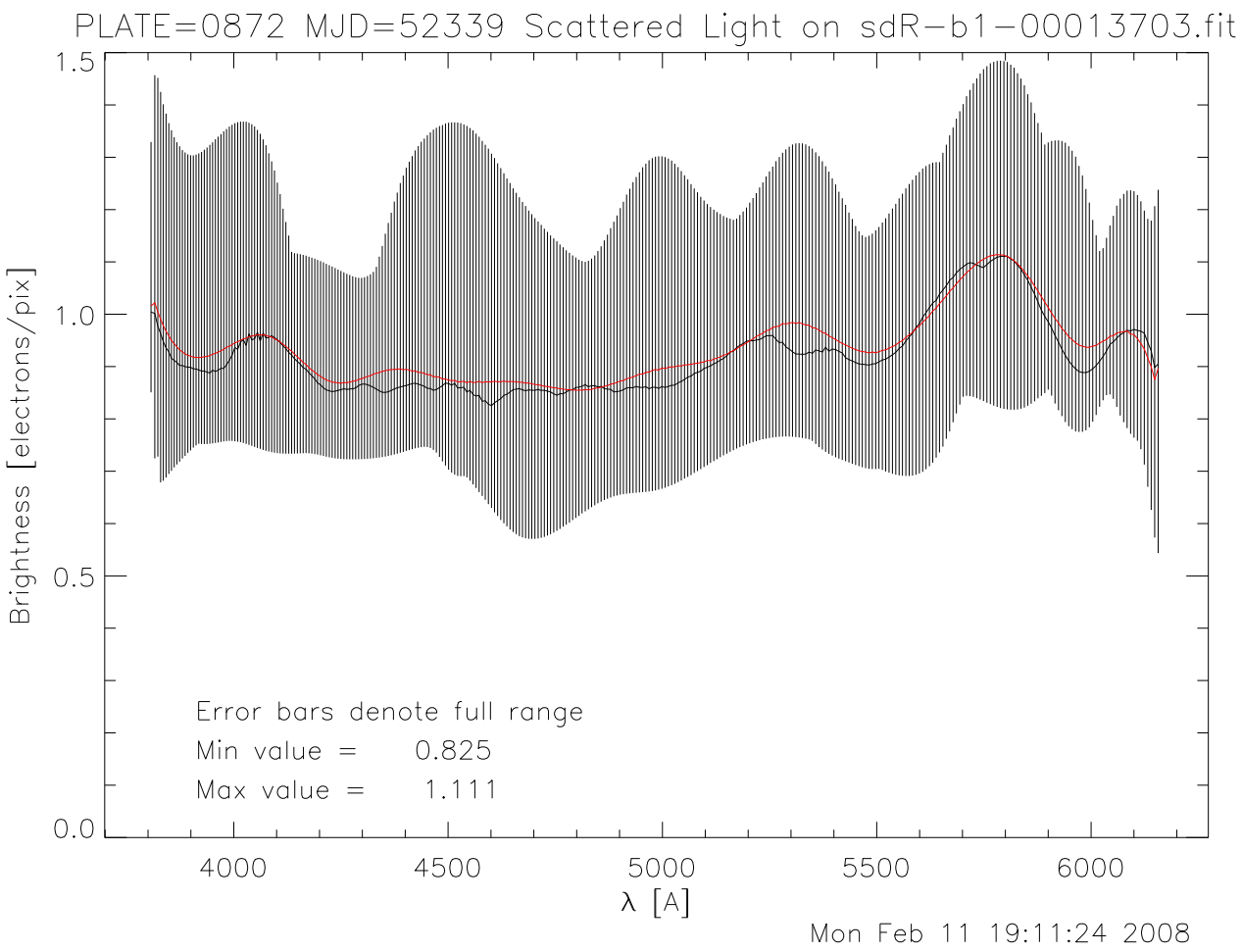

PLATE=0872 MJD=52339 sdR-b1-00013702.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.98 %
Fiber number
Focal Distance [mm]
Airmass

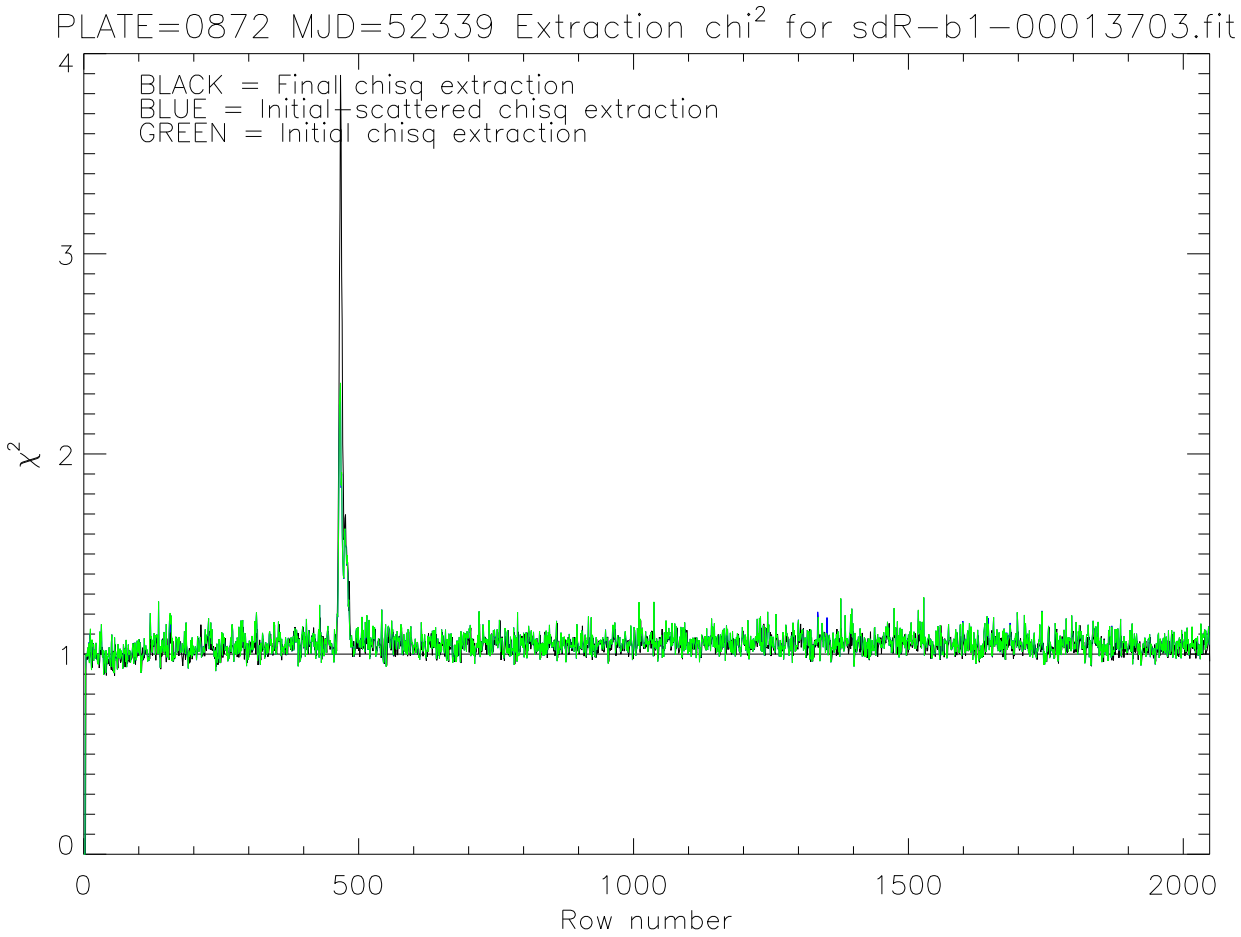

PLATE=0872 MJD=52339 Fiber−Flats for sdR−b1−00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.442
Max value = 1.257
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:08:47 2008

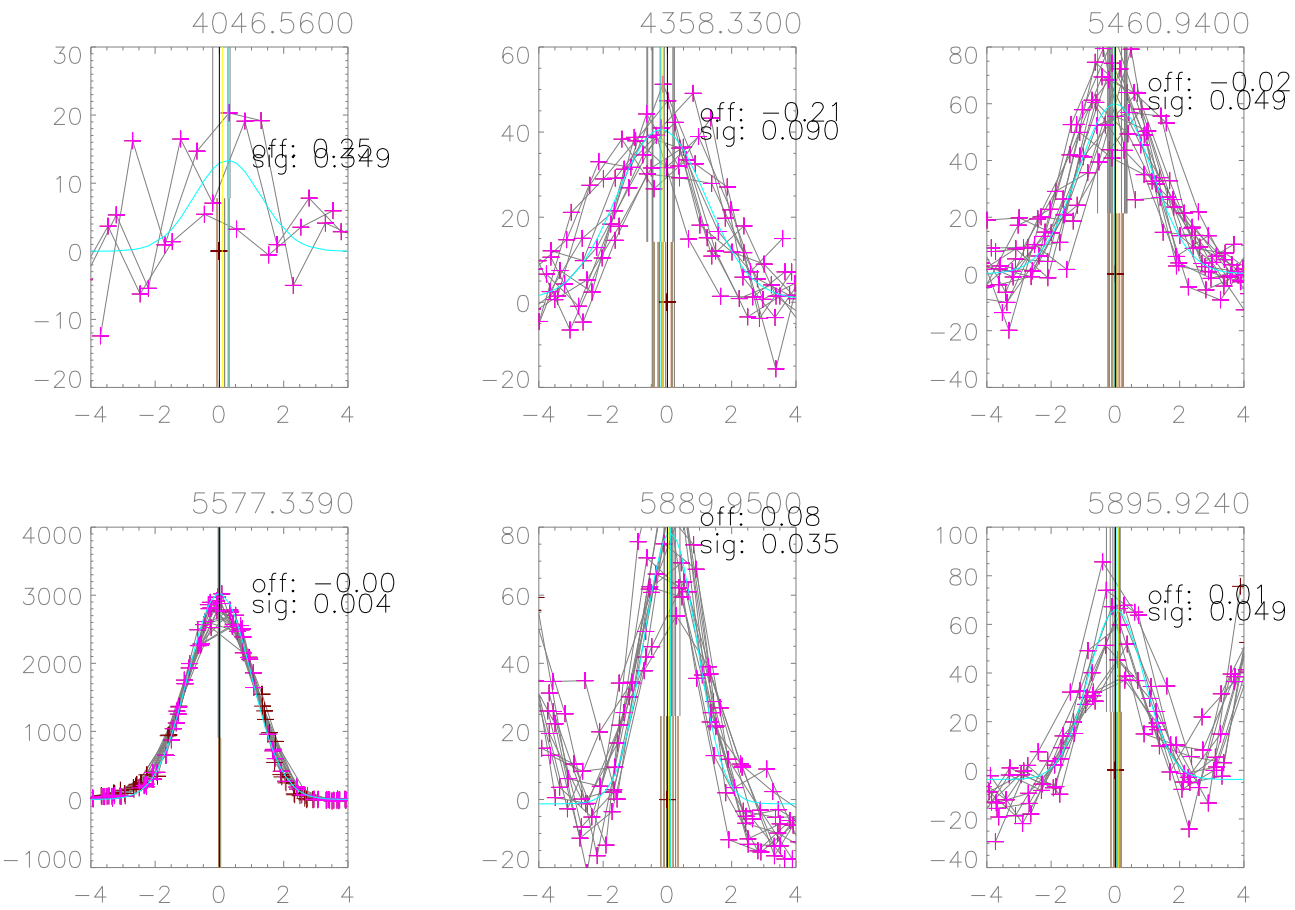

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR−b1−00013703.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.18
1.45
1.73

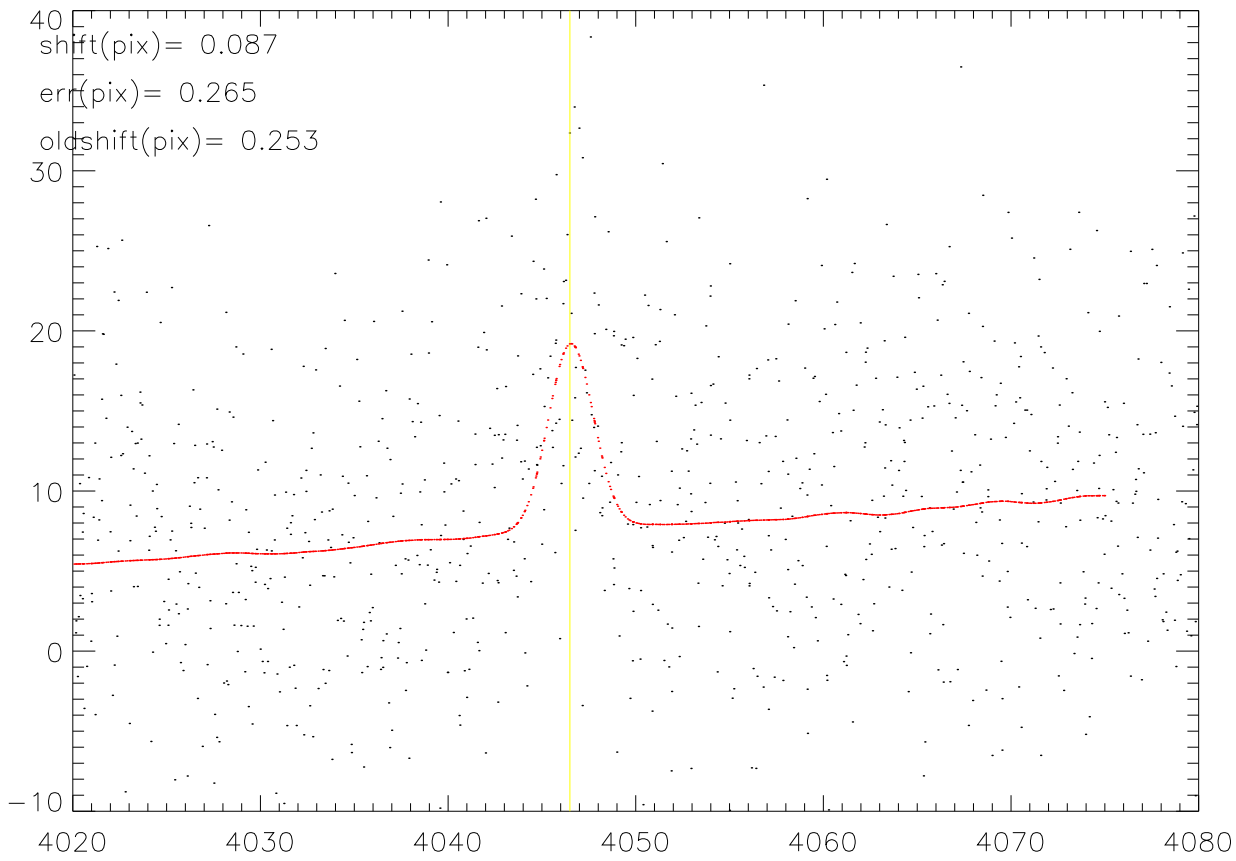

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b1-00013703.f
Brightness [electrons/pix]
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 1.158
Max value = 1.731
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:09:24 2008

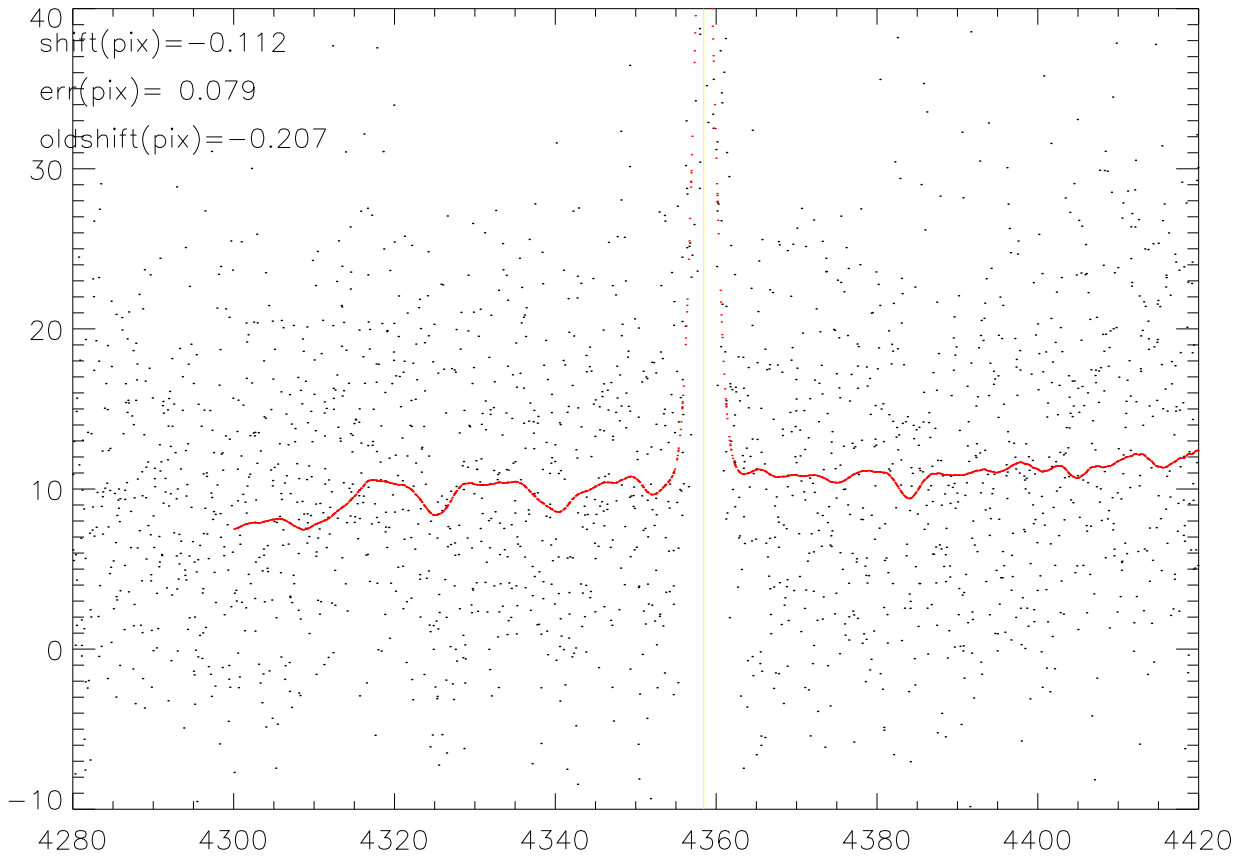

PLATE=0872 MJD=52339 Scattered Light on sdR-b1-00013703.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0.95
0.95
0.73
0.95
0.95
0.95
0.95

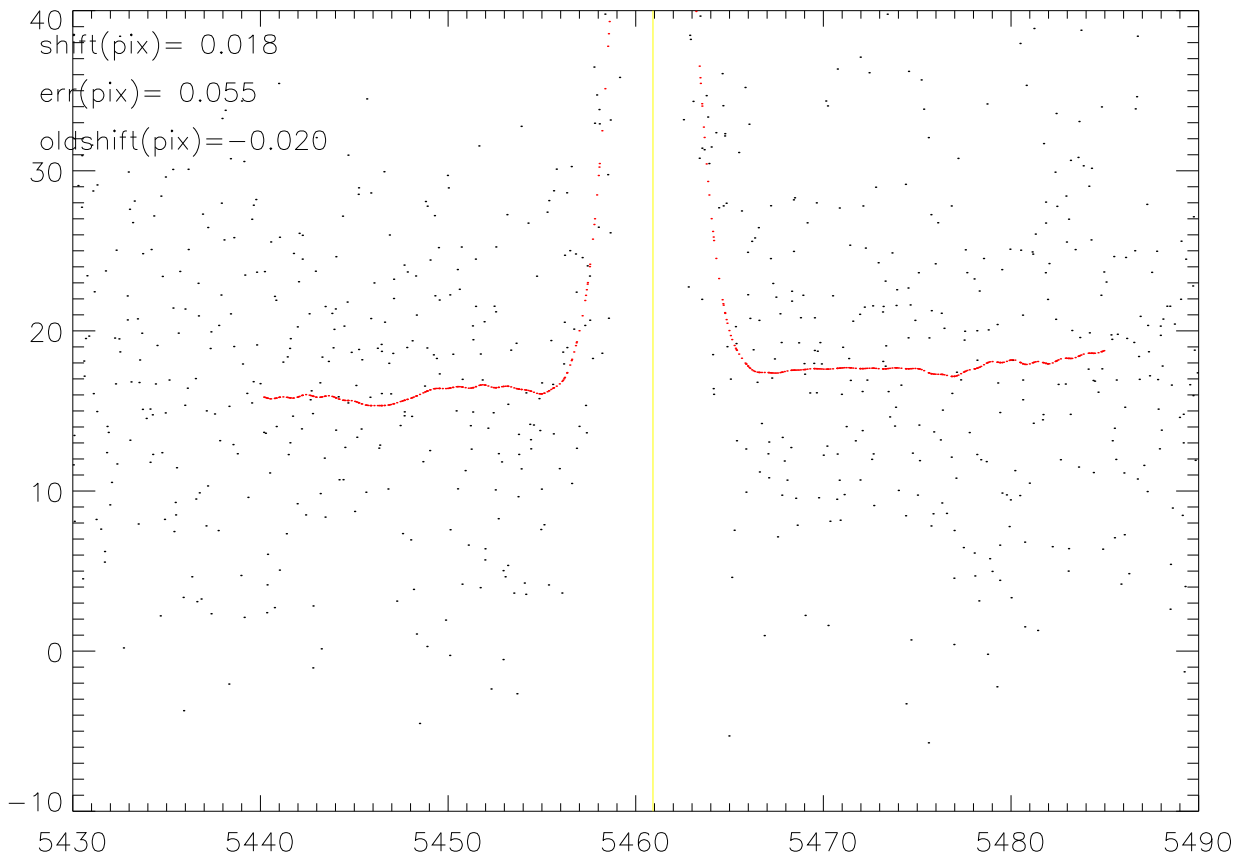

PLATE=0872 MJD=52339 Scattered Light on sdR-b1-00013703.fit
Brightness [electrons/pix]
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.825
Max value = 1.111
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:11:24 2008

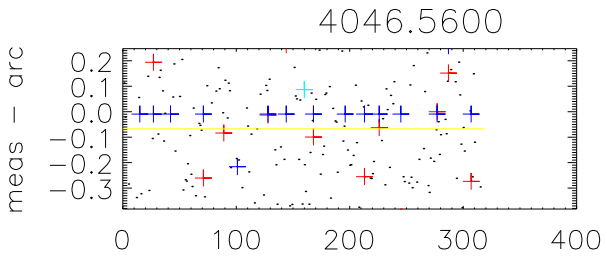

PLATE=0872 MJD=52339 Extraction chi^2 for sdR-b1-00013703.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

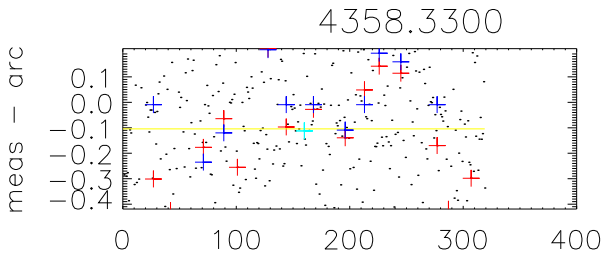

4046.5600
off: 0.35
sig: 0.349
4358.3300
off: −0.21
sig: 0.090
5460.9400
off: −0.02
sig: 0.049
5577.3390
off: −0.00
sig: 0.004
5889.9500
off: 0.08
sig: 0.035
5895.9240
off: 0.01
sig: 0.049

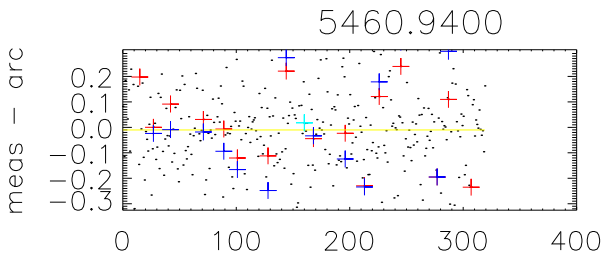

shift(pix)= 0.087
err(pix)= 0.265
oldshift(pix)= 0.253
40
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

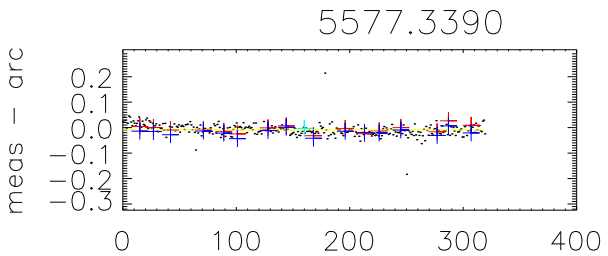

shift(pix)=−0.112
err(pix)= 0.079
oldshift(pix)=−0.207
40
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

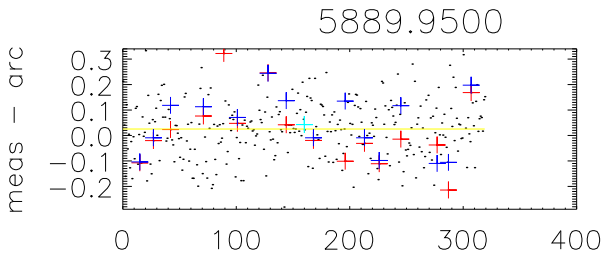

shift(pix)= 0.018
err(pix)= 0.055
oldshift(pix)=−0.020
40
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

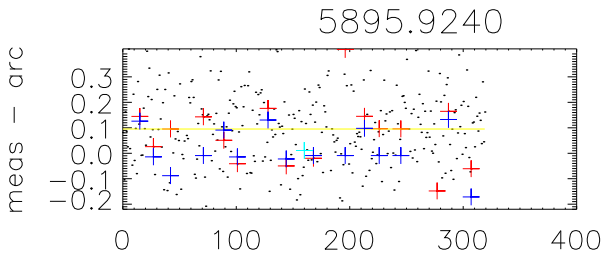

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

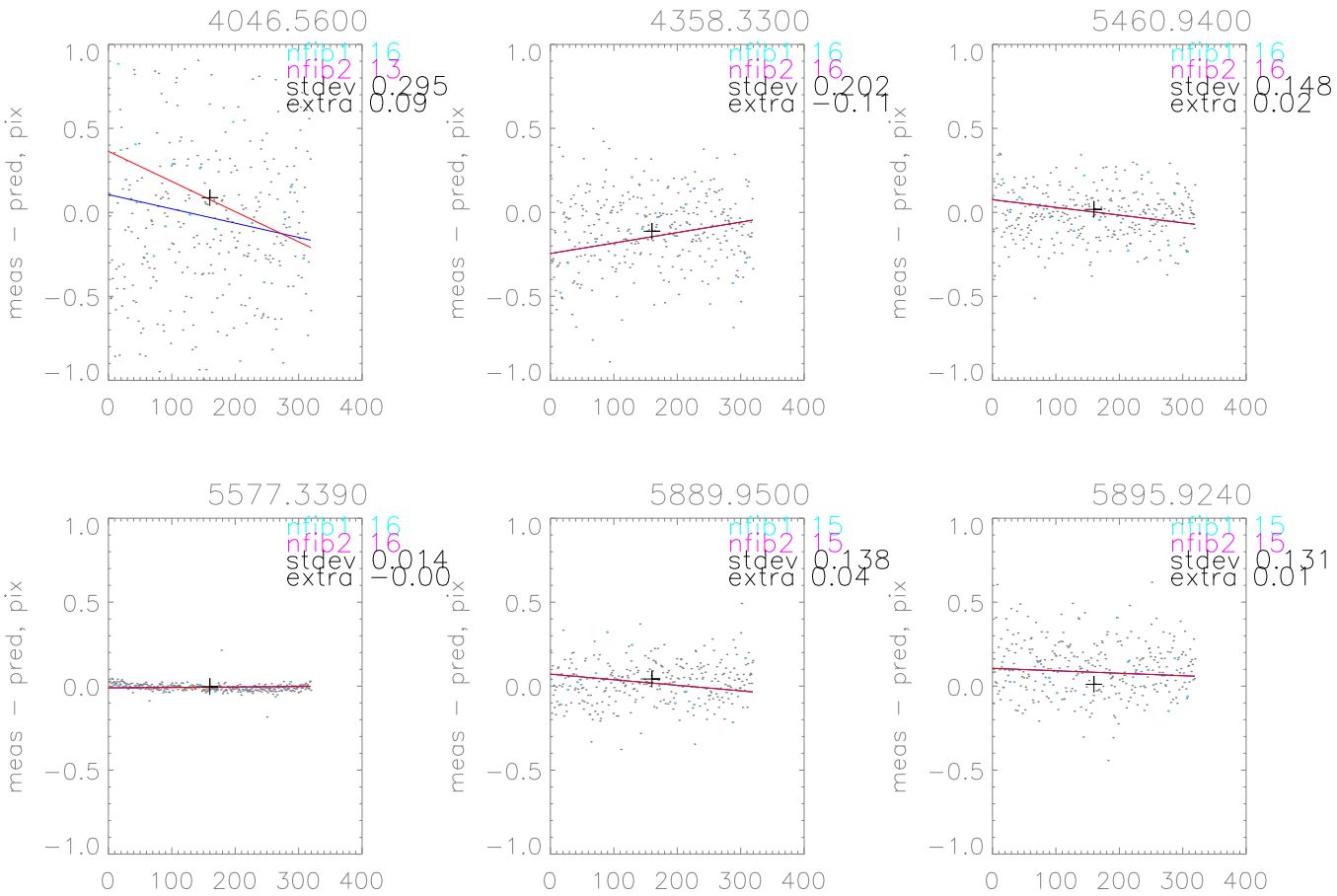

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

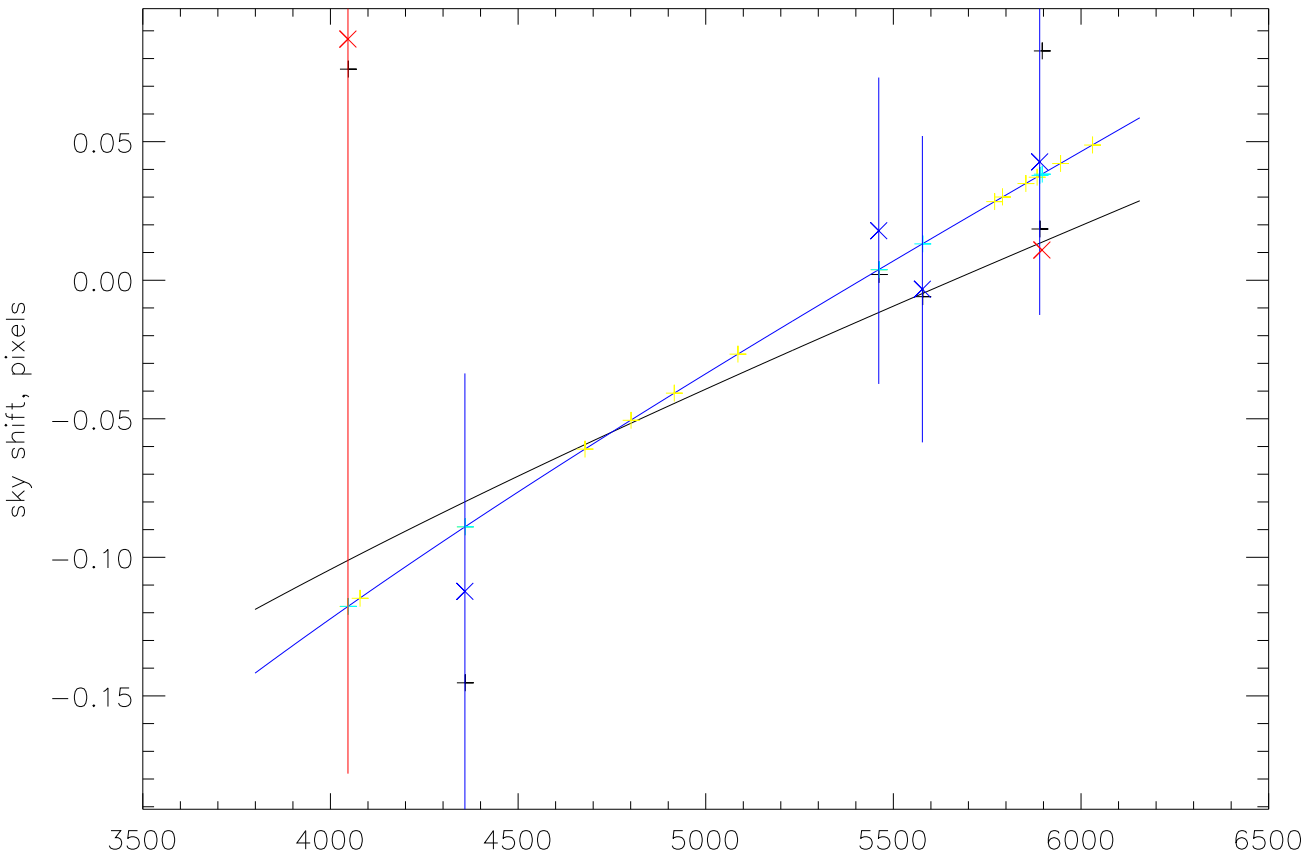

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

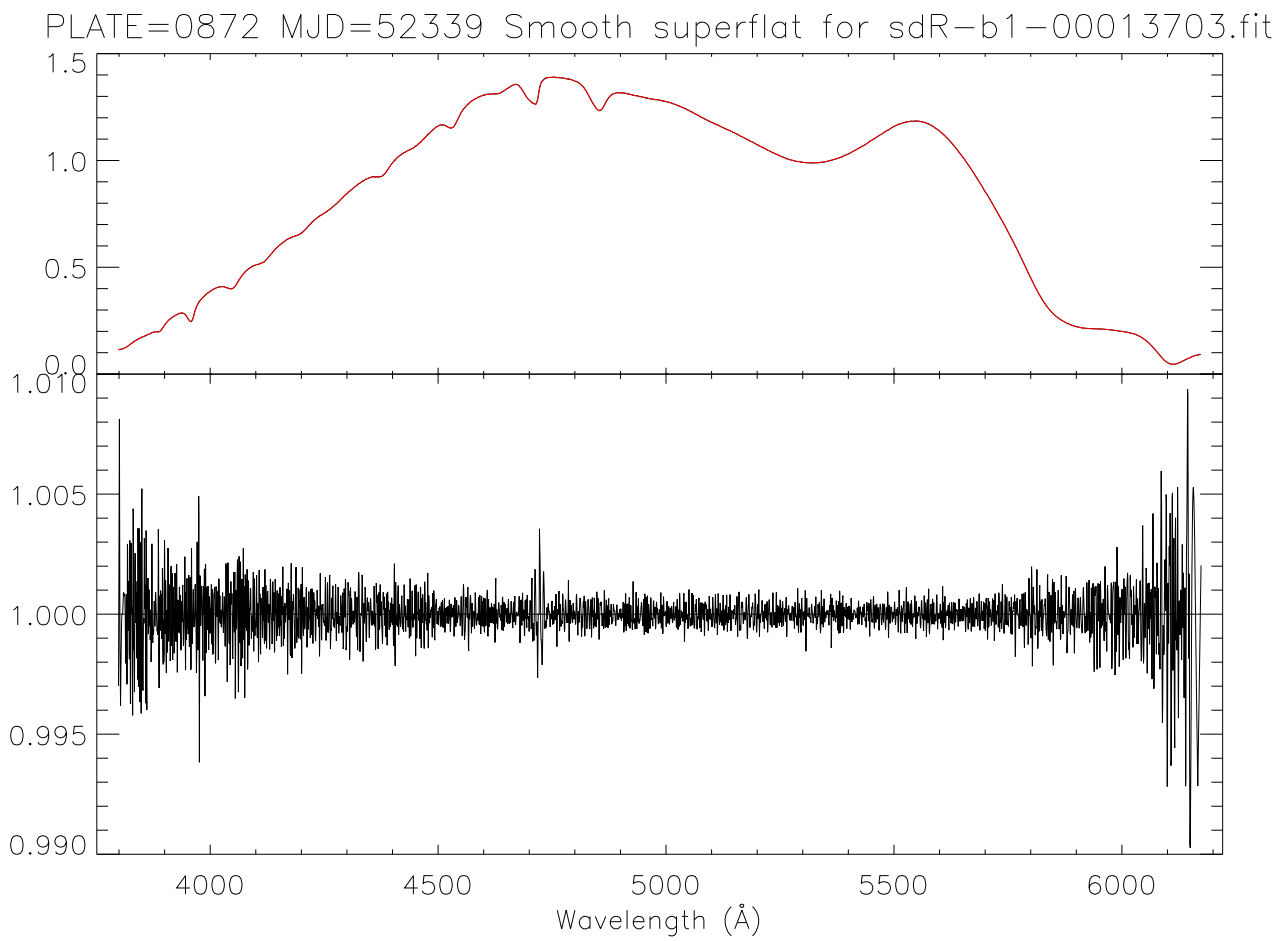

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

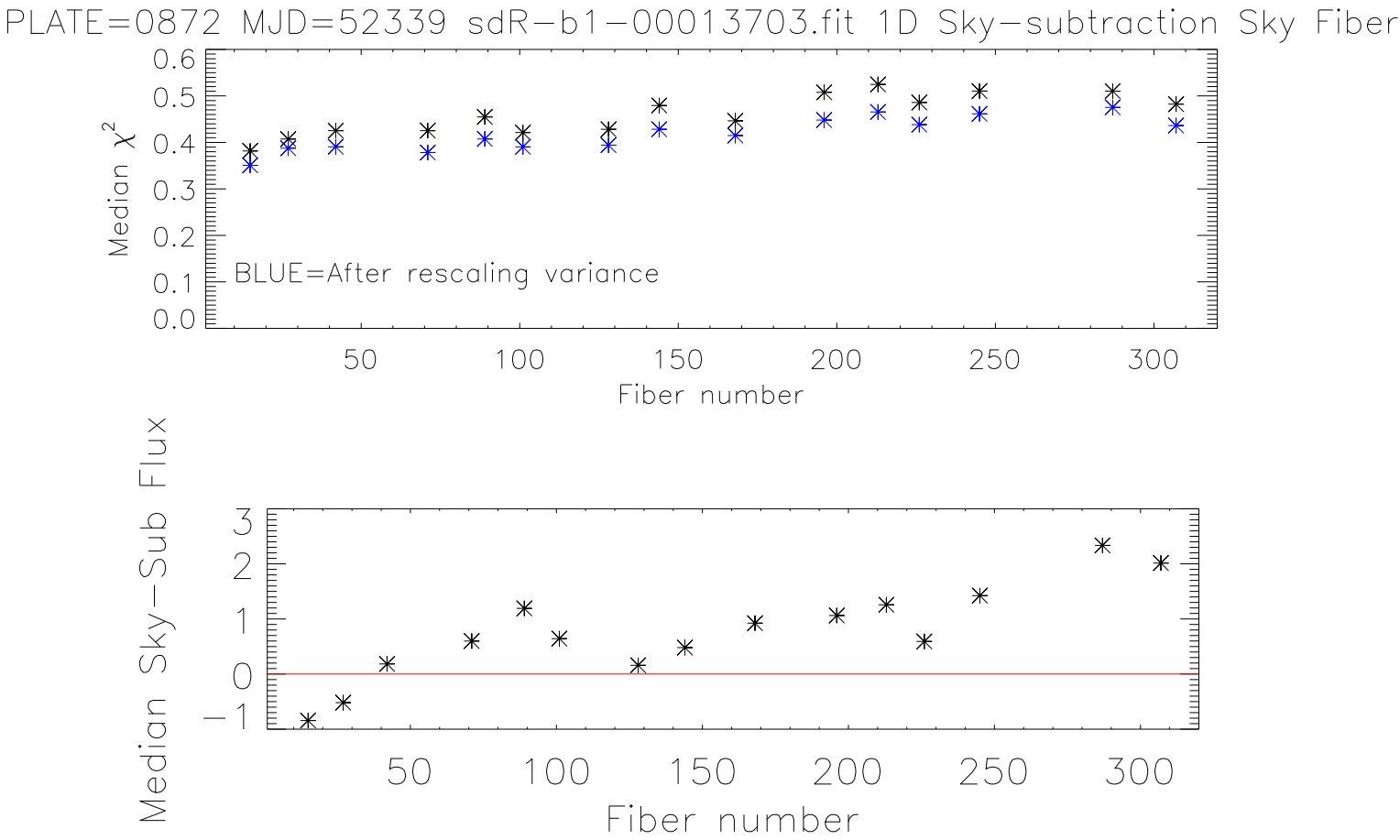

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

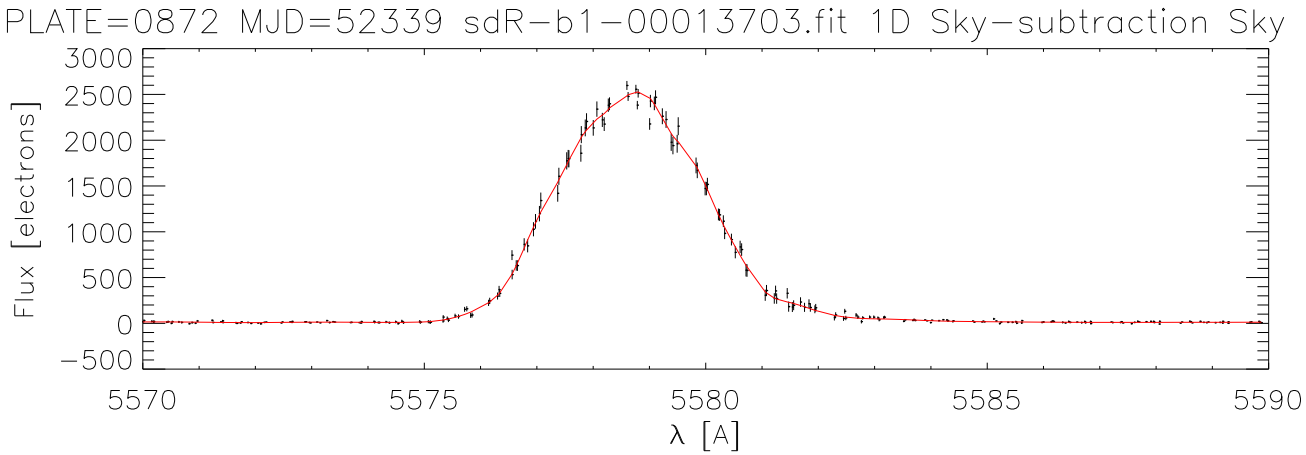

4046.5600
nfib1 16
nfib2 13
stdev 0.295
extra 0.09
4358.3300
nfib1 16
nfib2 16
stdev 0.202
extra −0.11
5460.9400
nfib1 16
nfib2 16
stdev 0.148
extra 0.02
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra −0.00
5889.9500
nfib1 15
nfib2 15
stdev 0.138
extra 0.04
5895.9240
nfib1 15
nfib2 15
stdev 0.131
extra 0.01
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

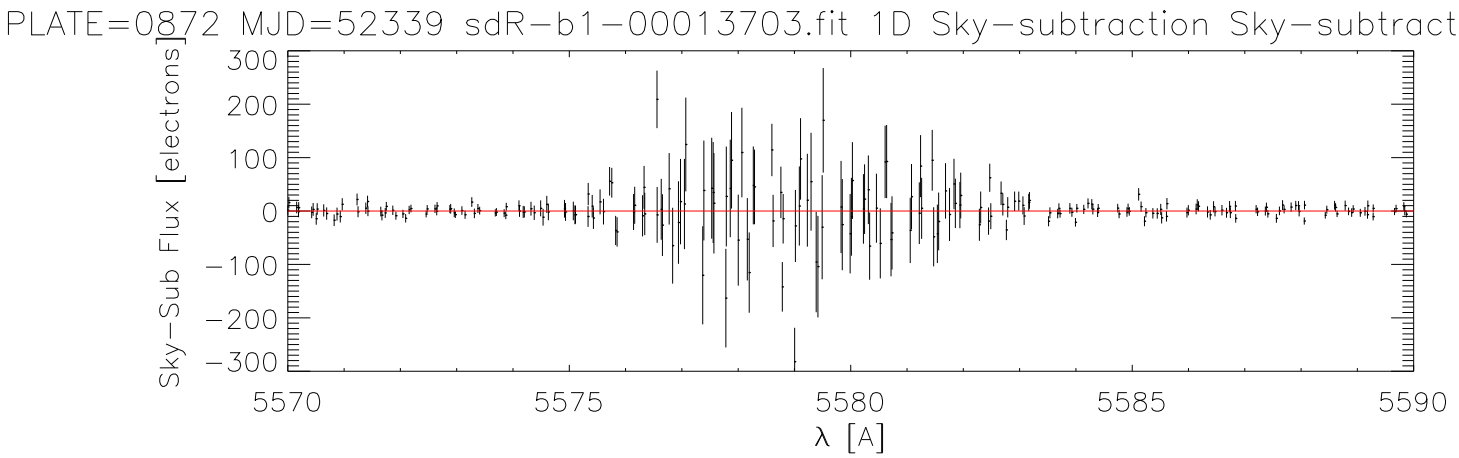

0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

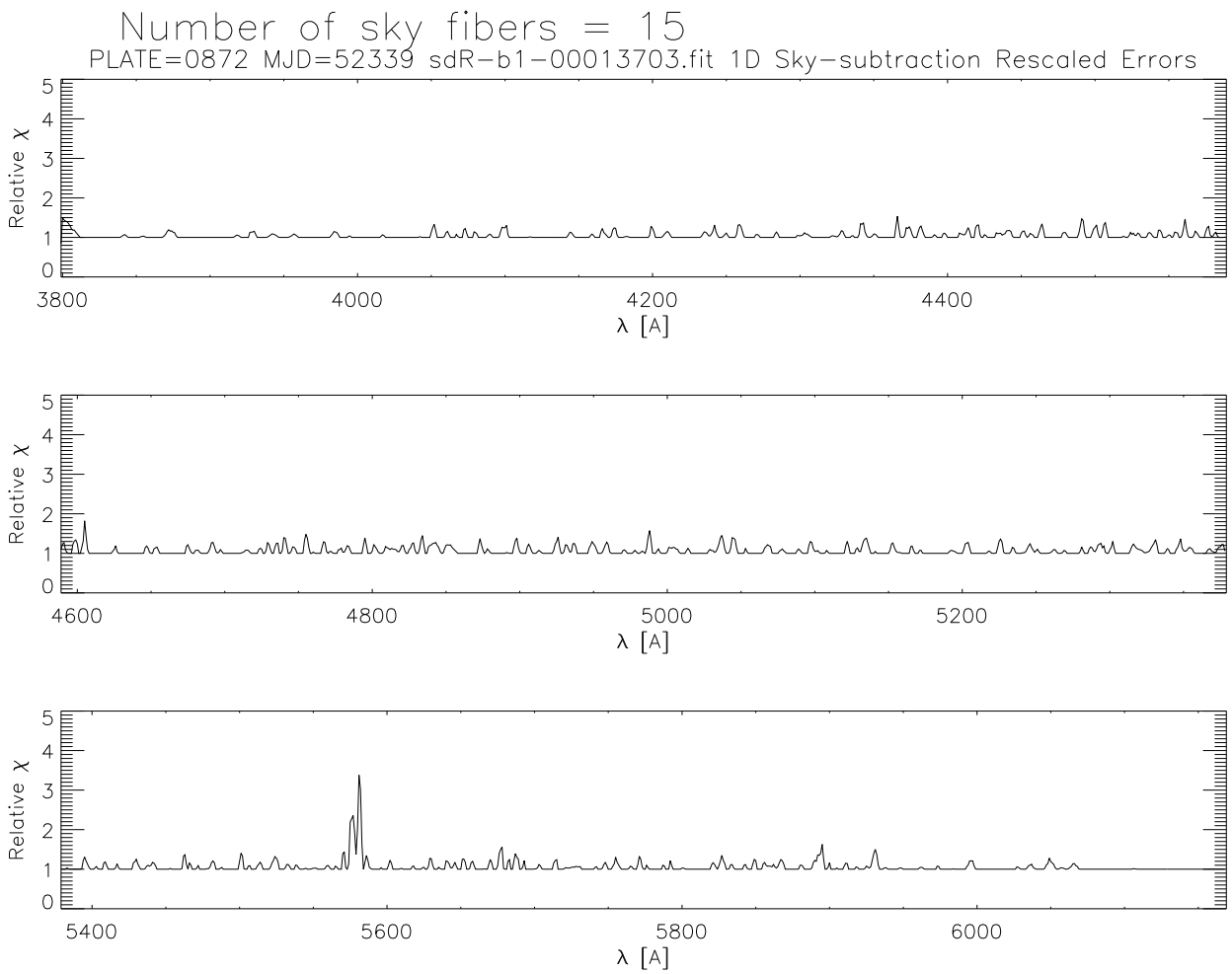
es= 0.0000

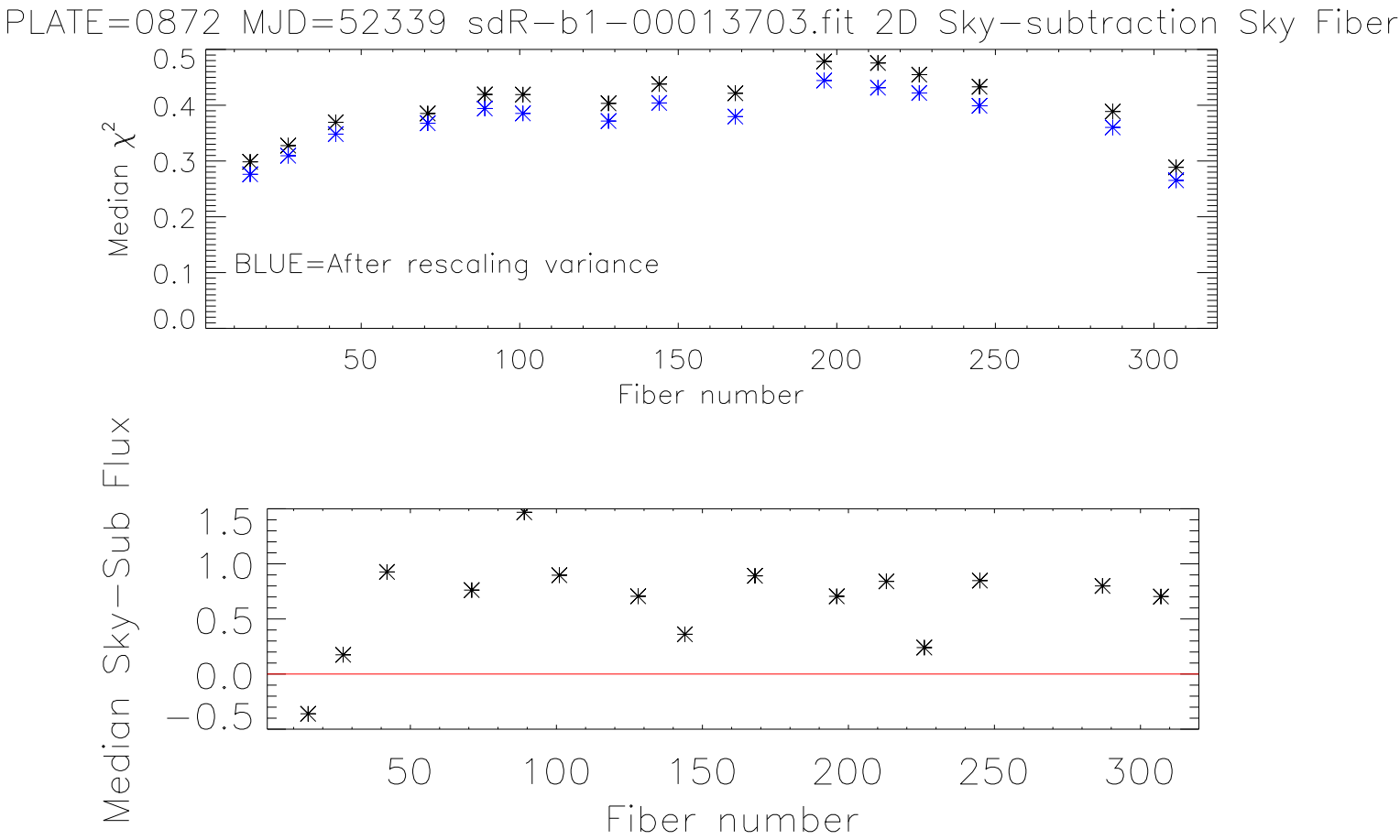

PLATE=0872 MJD=52339 Smooth superflat for sdR-b1-00013703.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

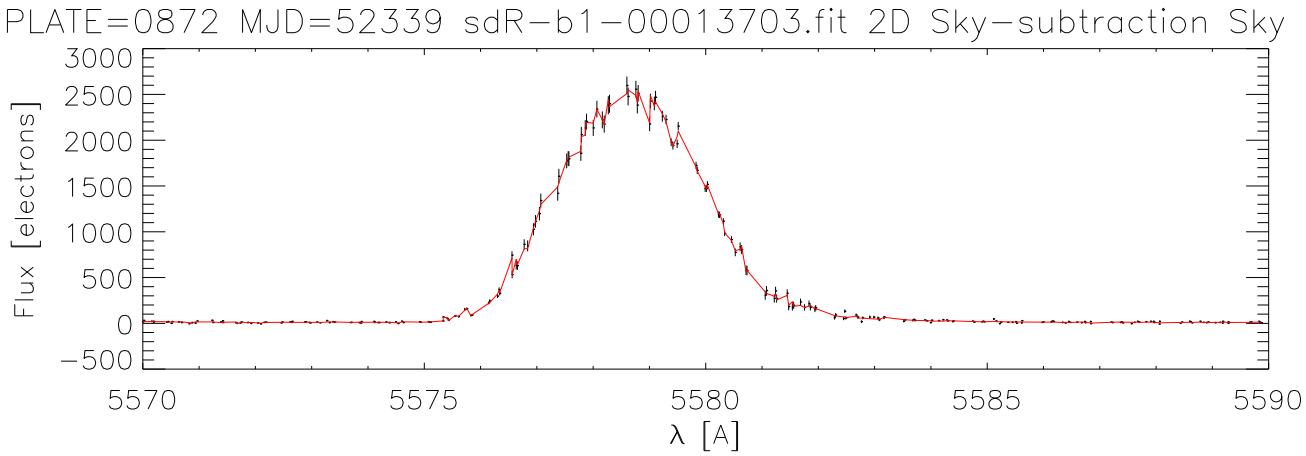

PLATE=0872 MJD=52339 sdR-b1-00013703.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

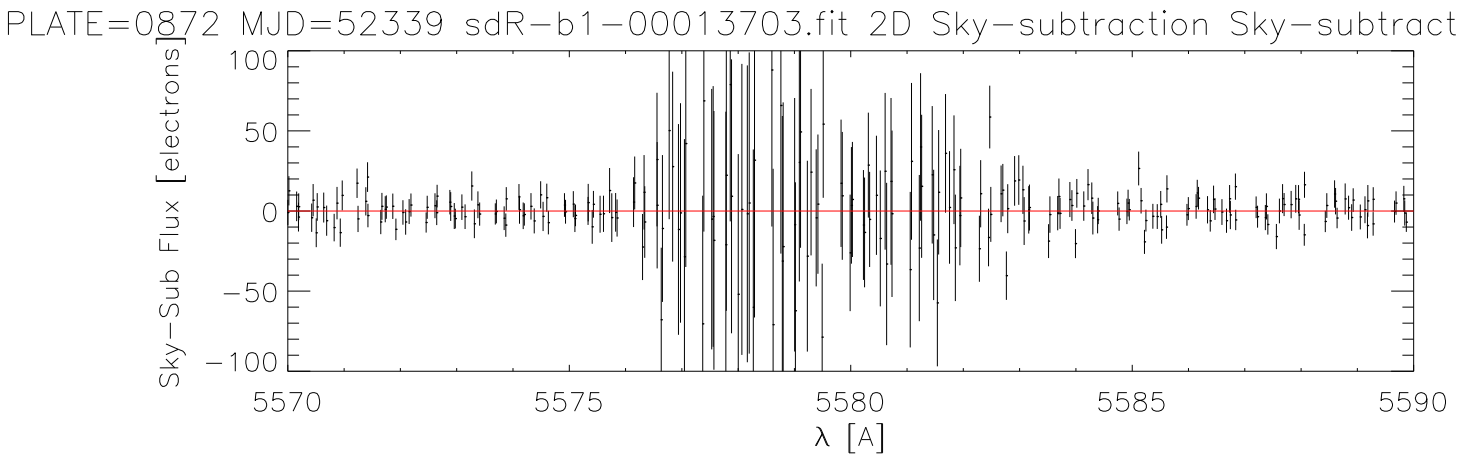

PLATE=0872 MJD=52339 sdR-b1-00013703.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

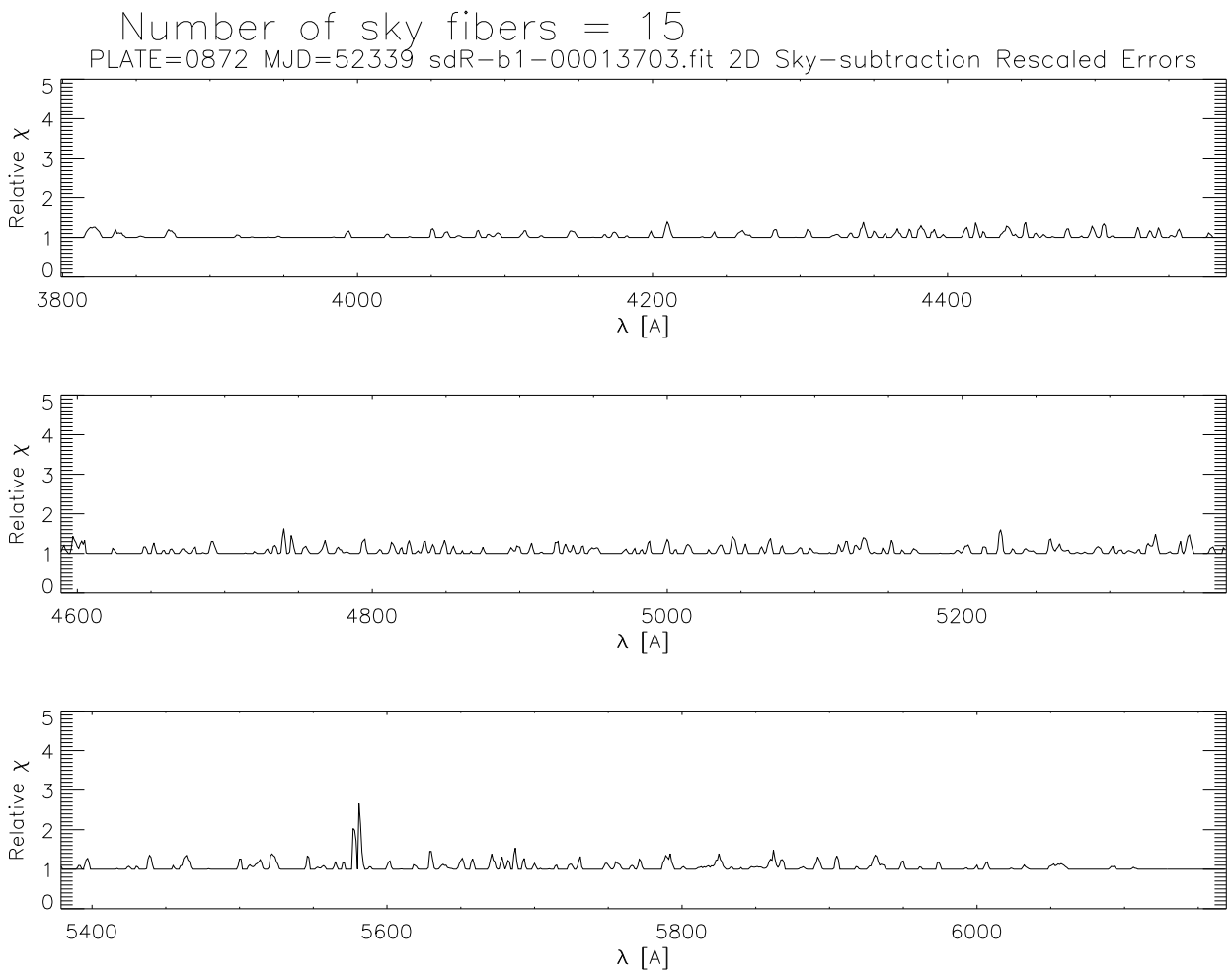

PLATE=0872 MJD=52339 sdR-b1-00013703.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

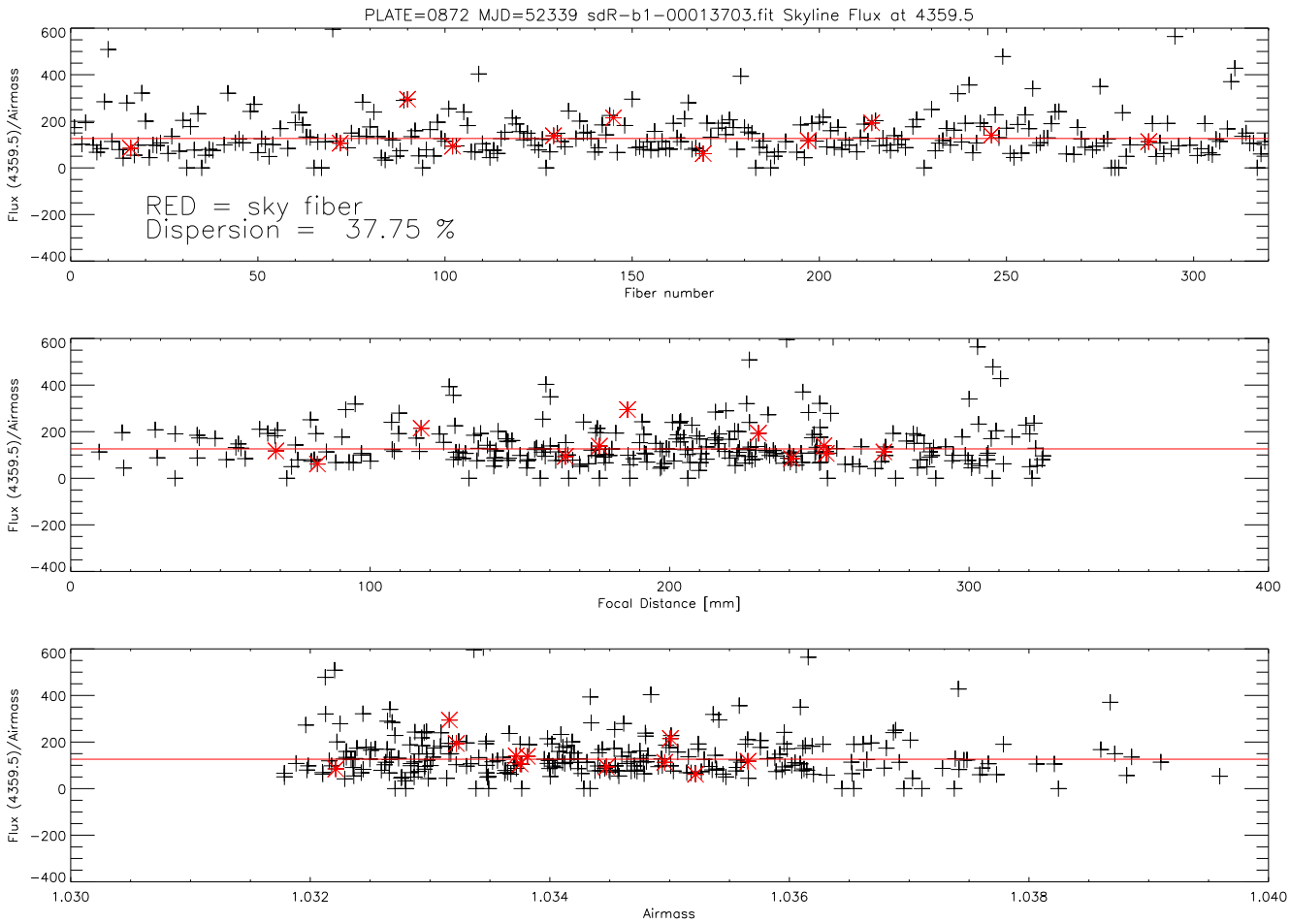

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b1-00013703.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

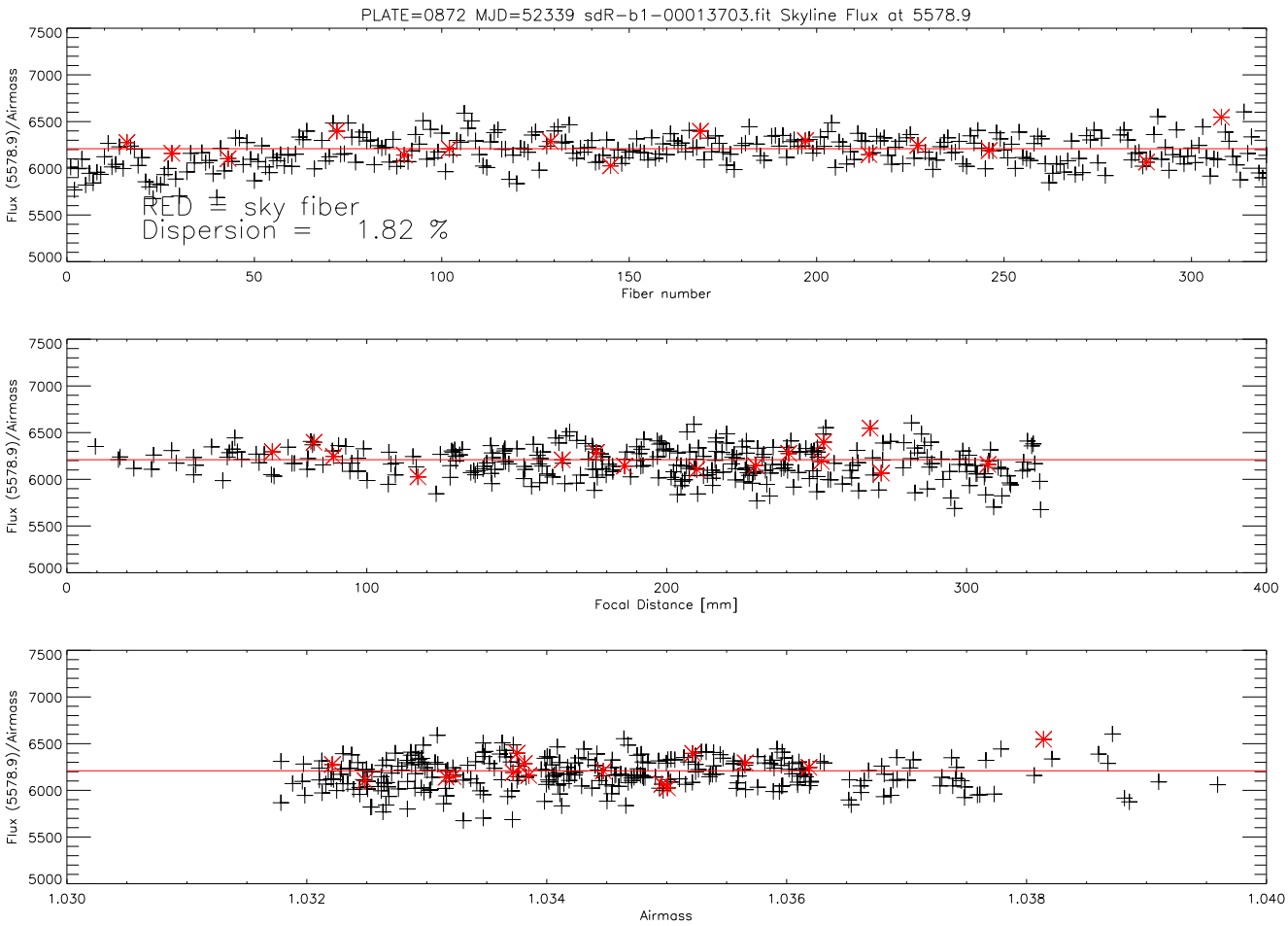

PLATE=0872 MJD=52339 sdR-b1-00013703.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

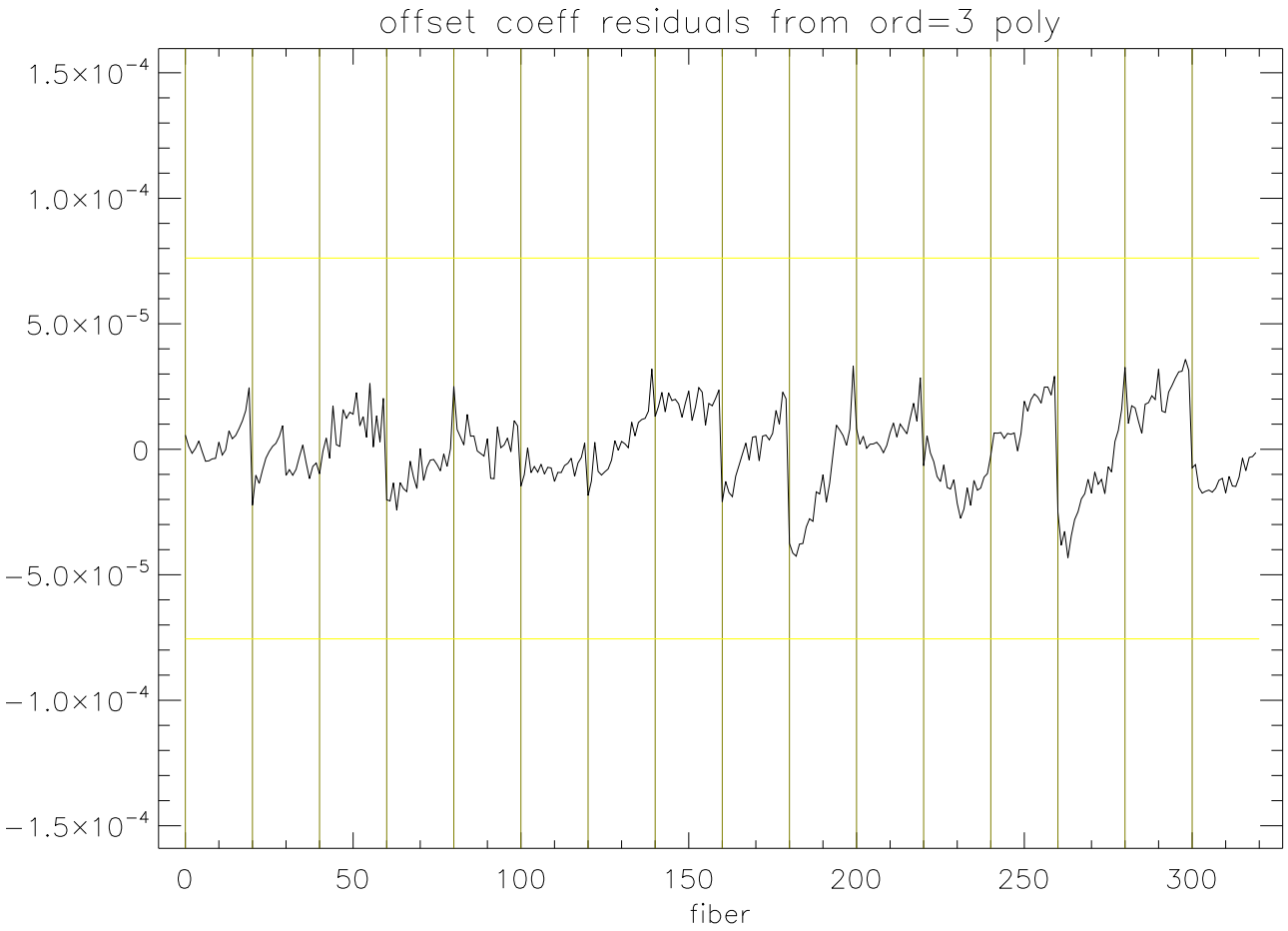

PLATE=0872 MJD=52339 sdR-b1-00013703.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

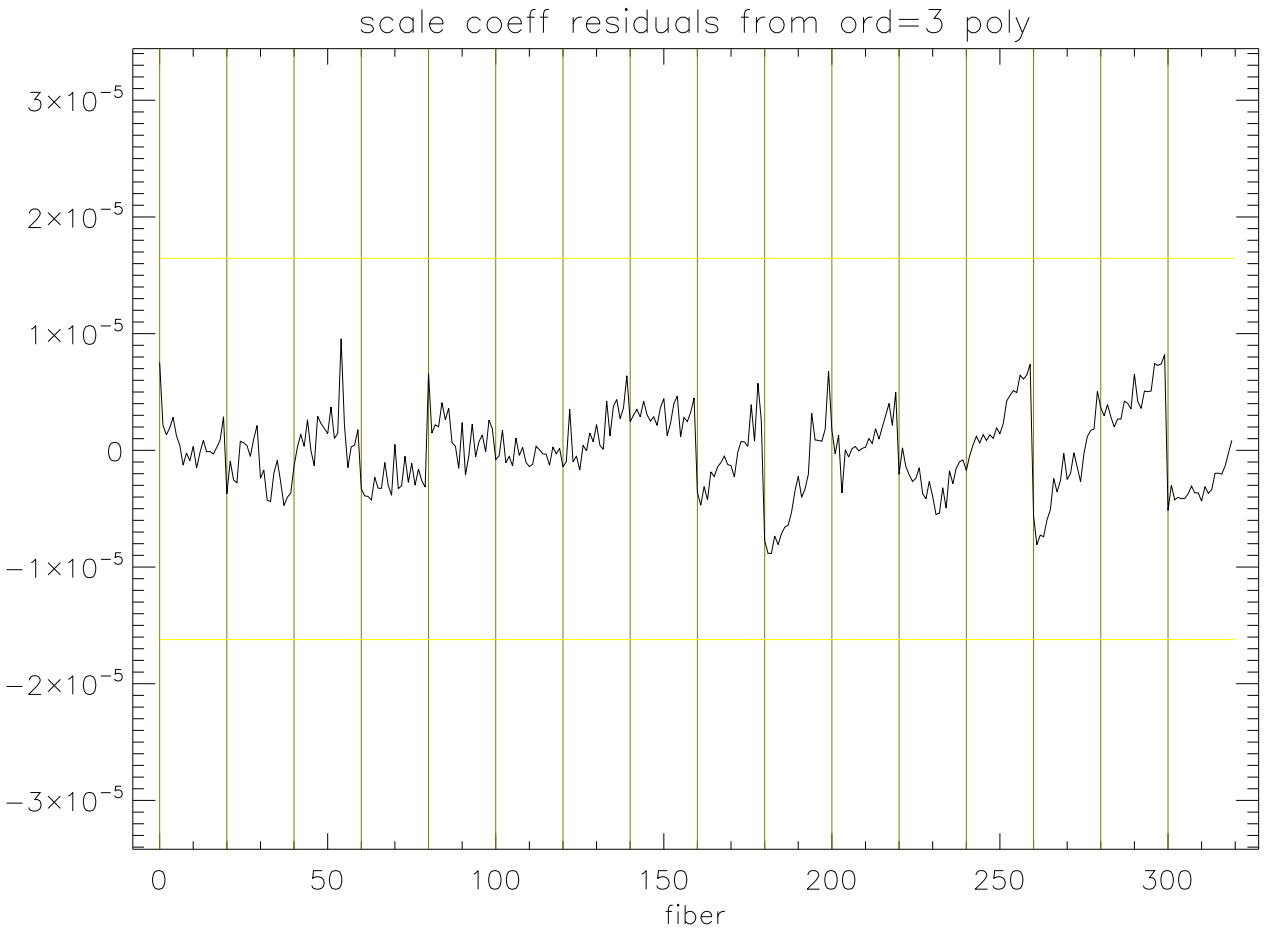

PLATE=0872 MJD=52339 sdR-b1-00013703.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

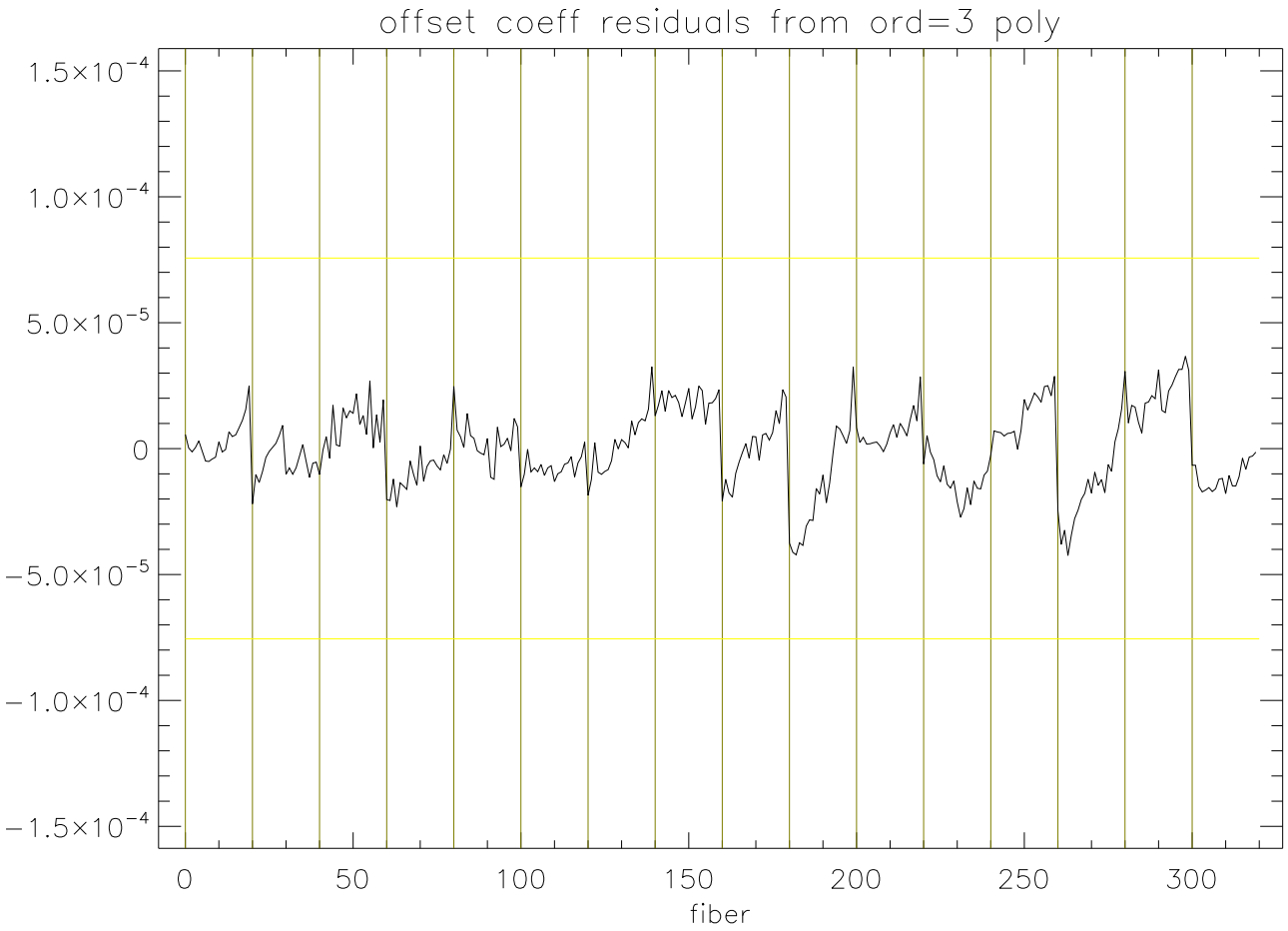

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b1-00013703.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

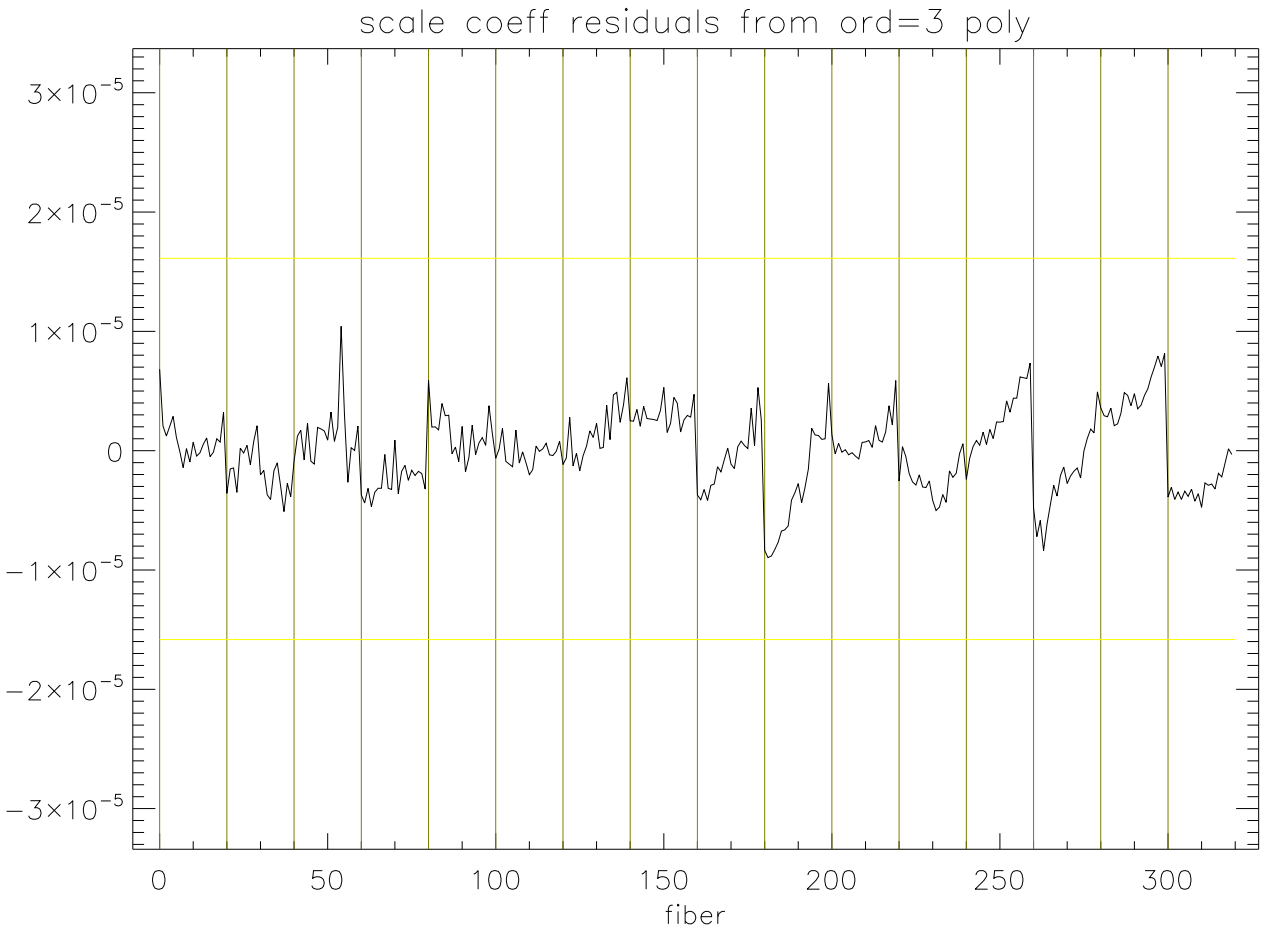

PLATE=0872 MJD=52339 sdR-b1-00013703.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 37.75 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

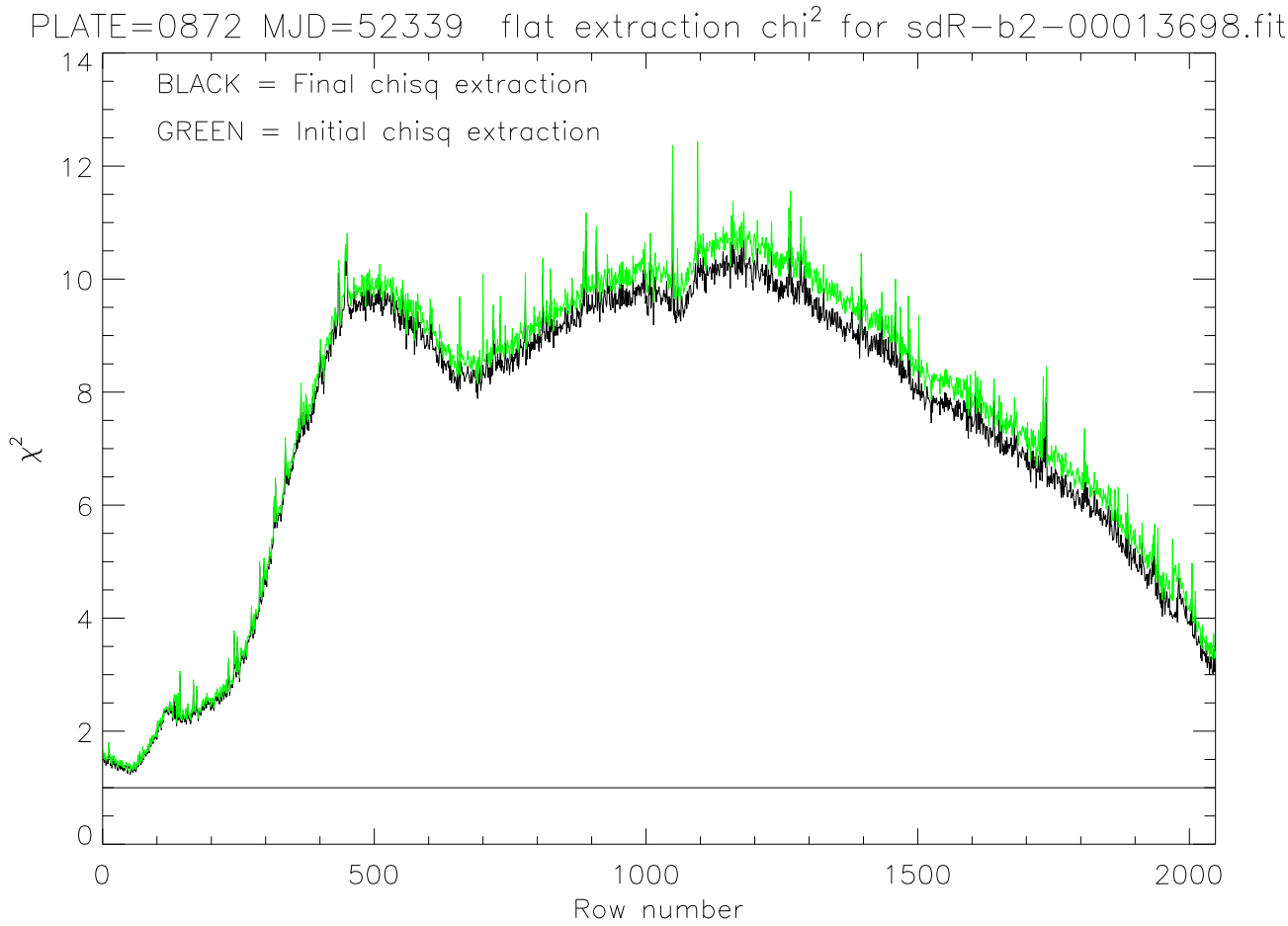

PLATE=0872 MJD=52339 sdR-b1-00013703.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.82 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

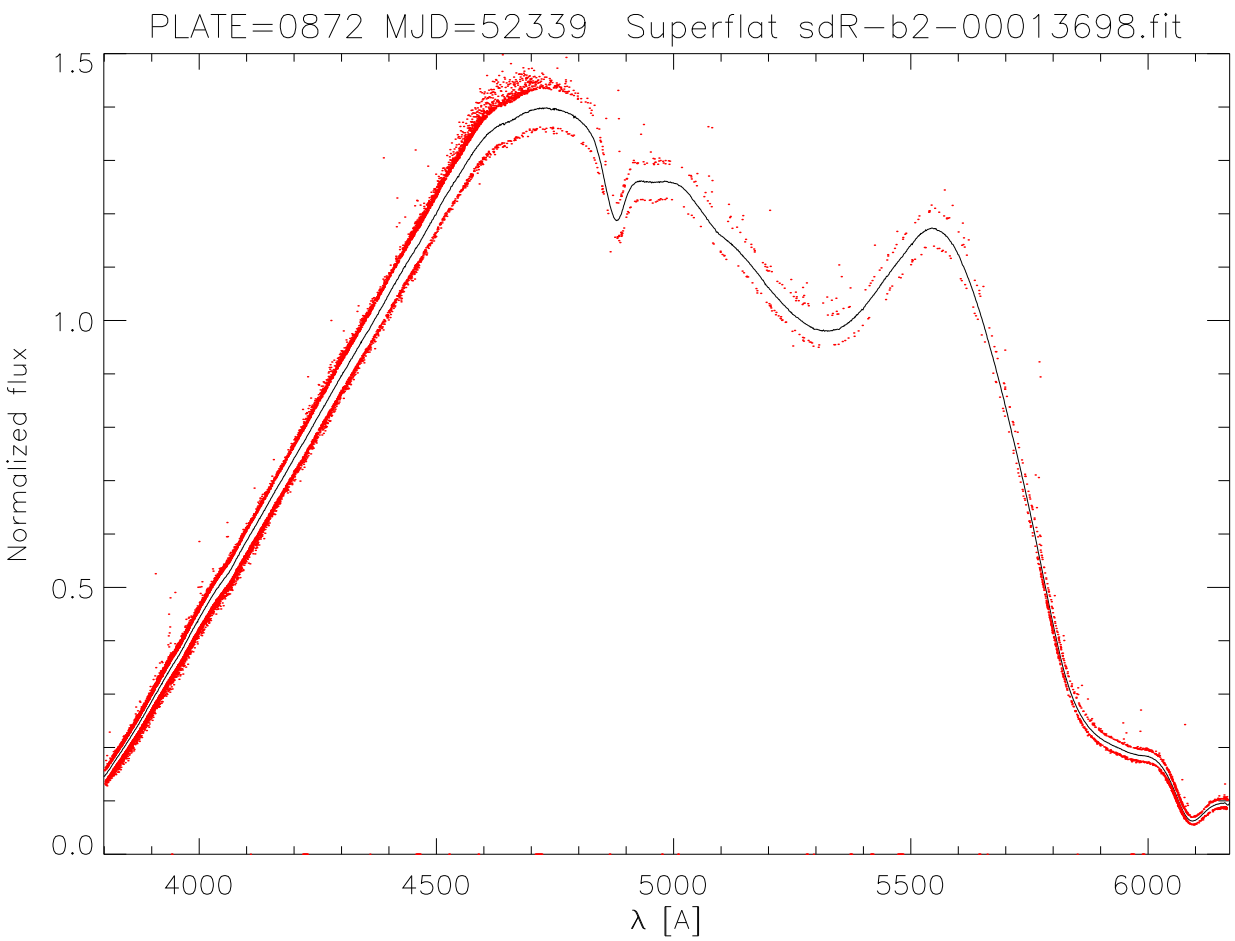

offset coeff residuals from ord=3 poly
1.5×10^-4
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

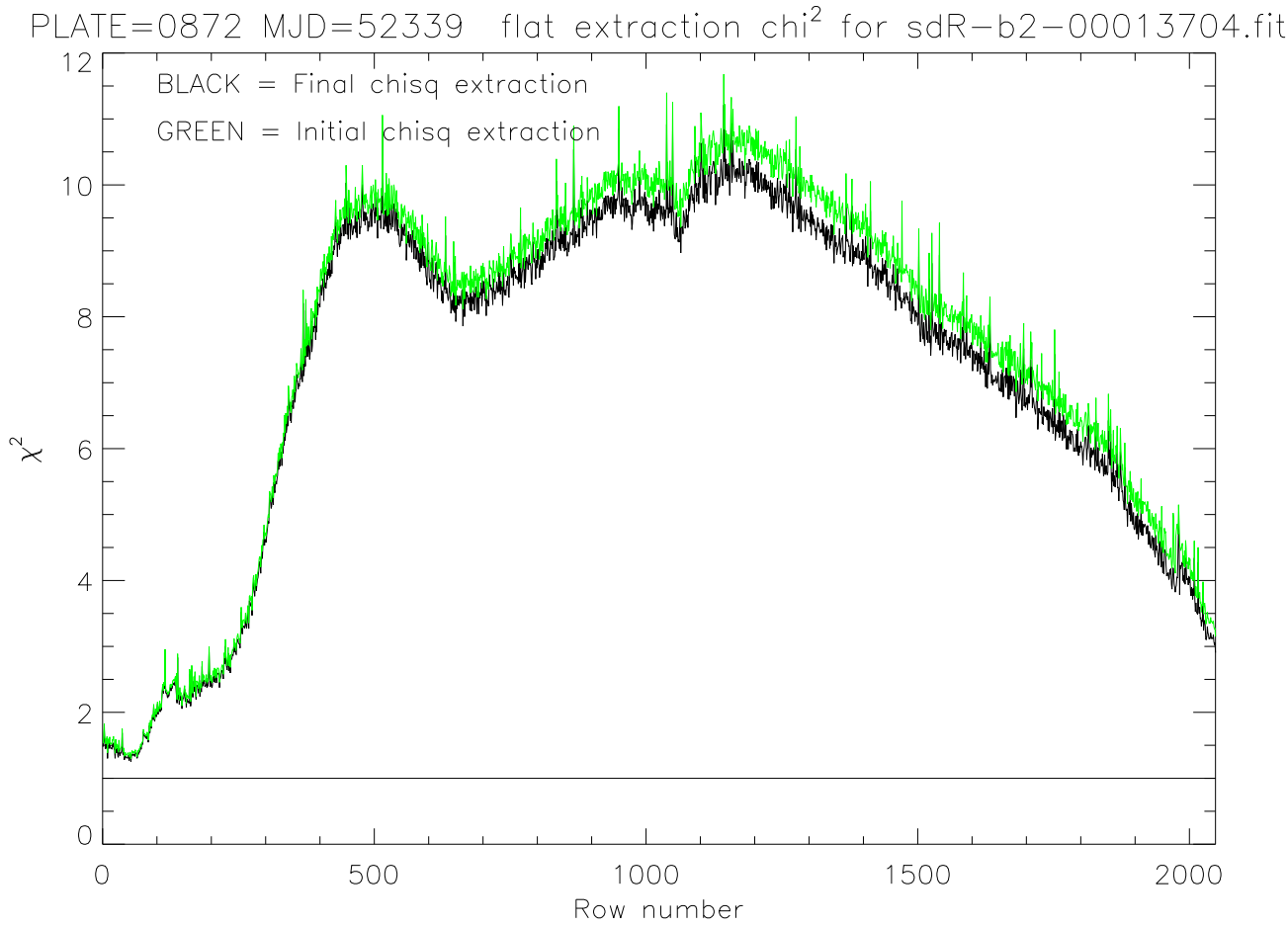

scale coeff residuals from ord=3 poly
3×10^-5
2×10^-5
1×10^-5
0
−1×10^-5
−2×10^-5
−3×10^-5
0
50
100
150
200
250
300
fiber

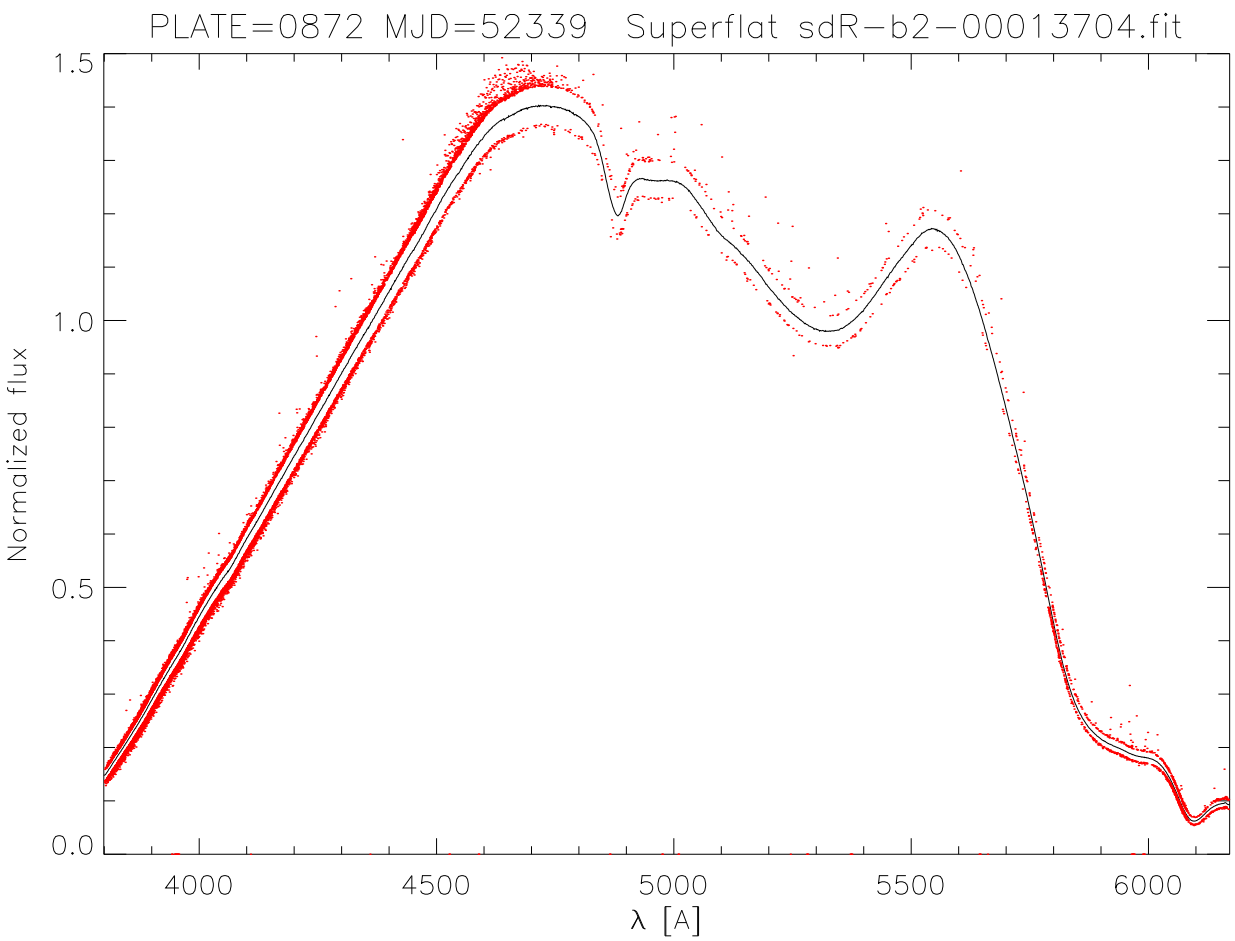

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

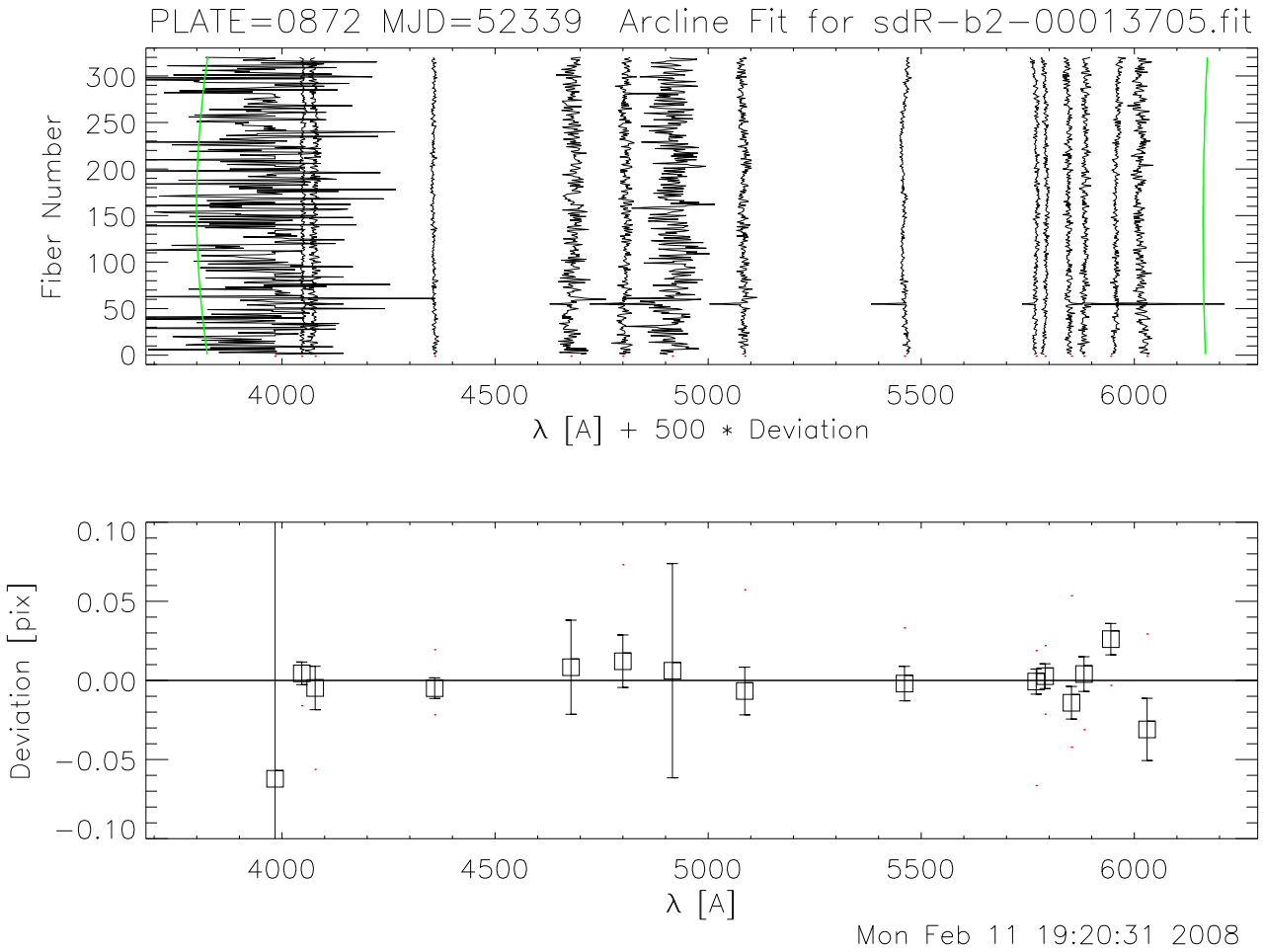

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

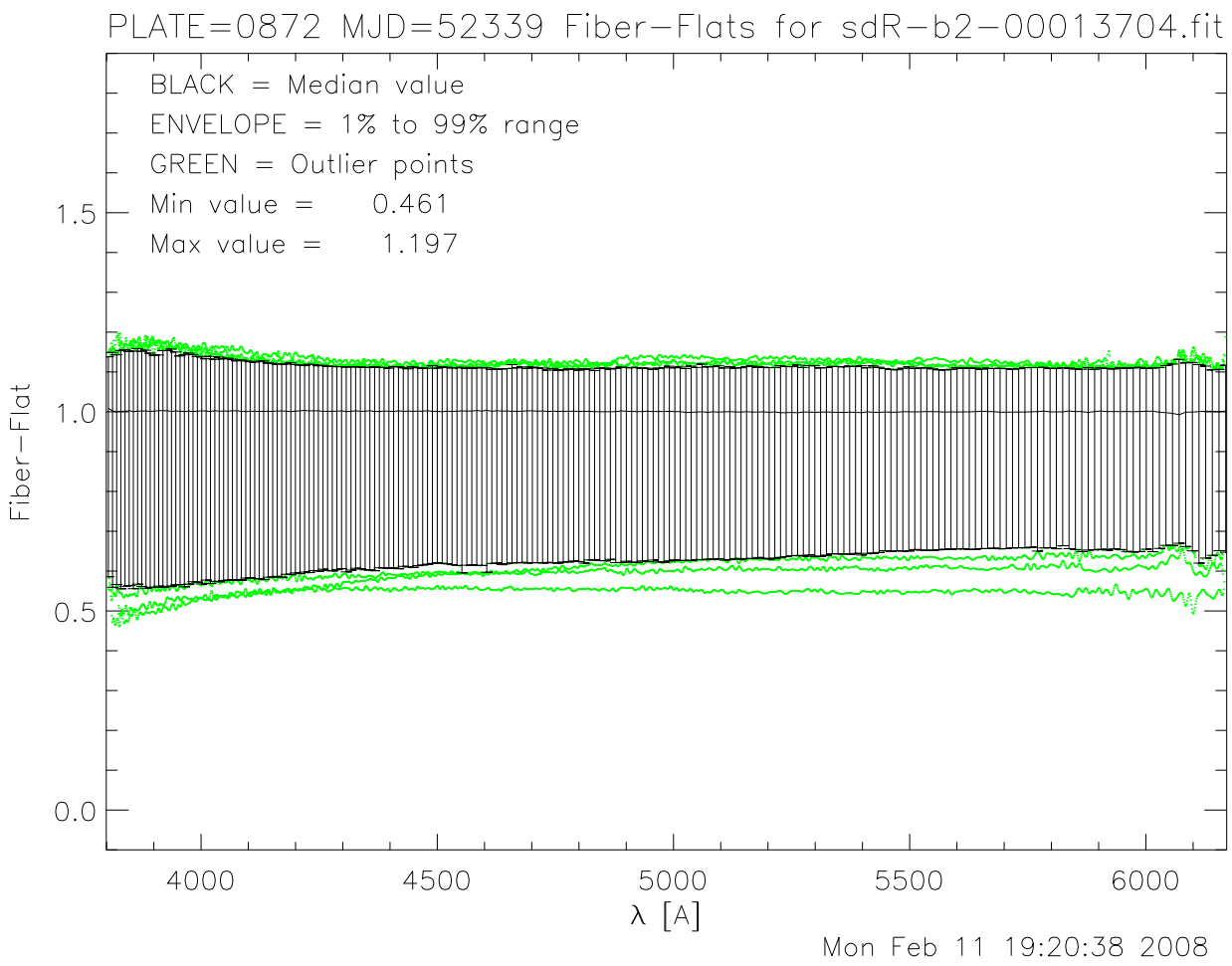

PLATE=0872 MJD=52339 flat extraction chi^2 for sdR−b2−00013698.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

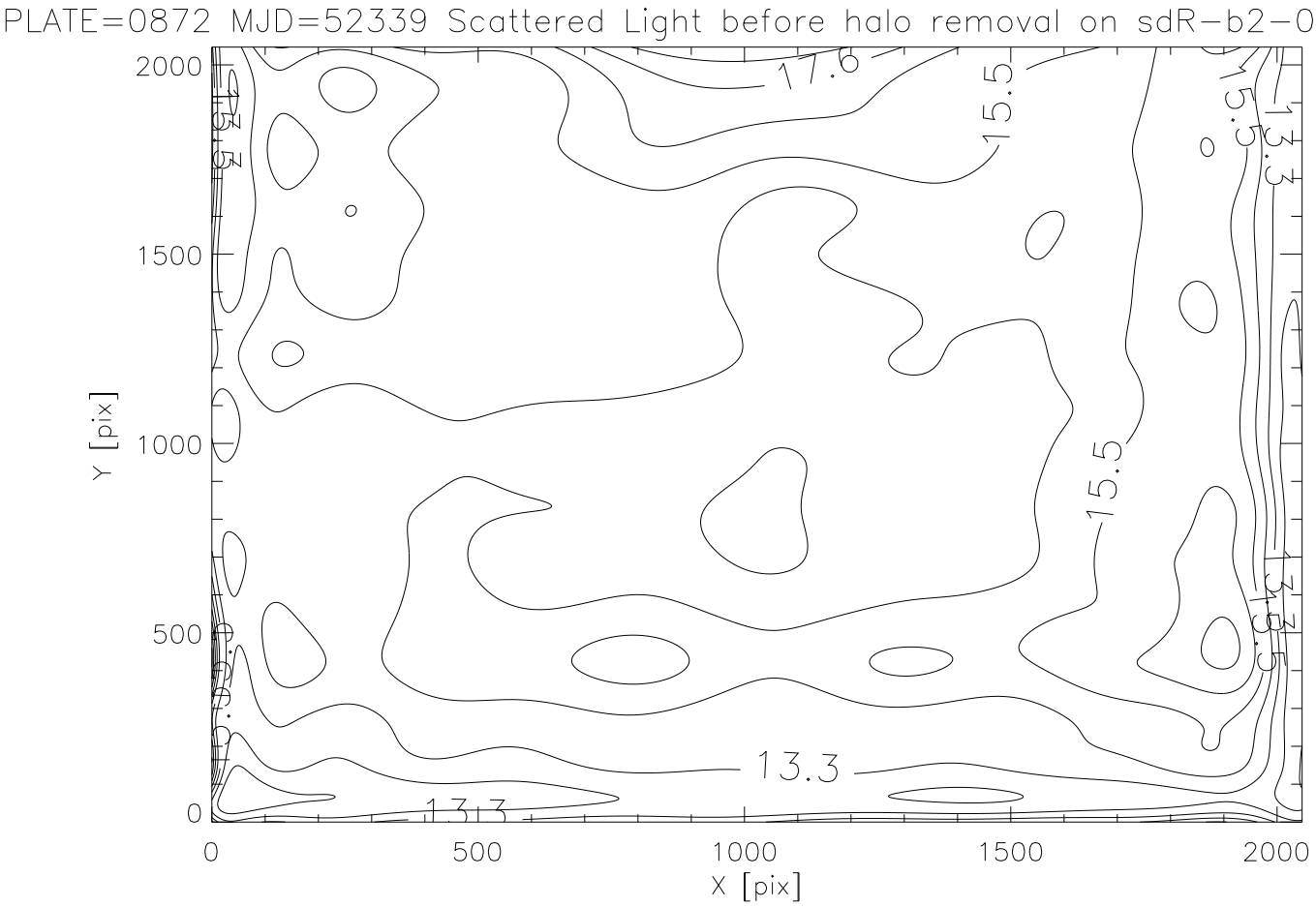

PLATE=0872 MJD=52339 Superflat sdR-b2-00013698.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

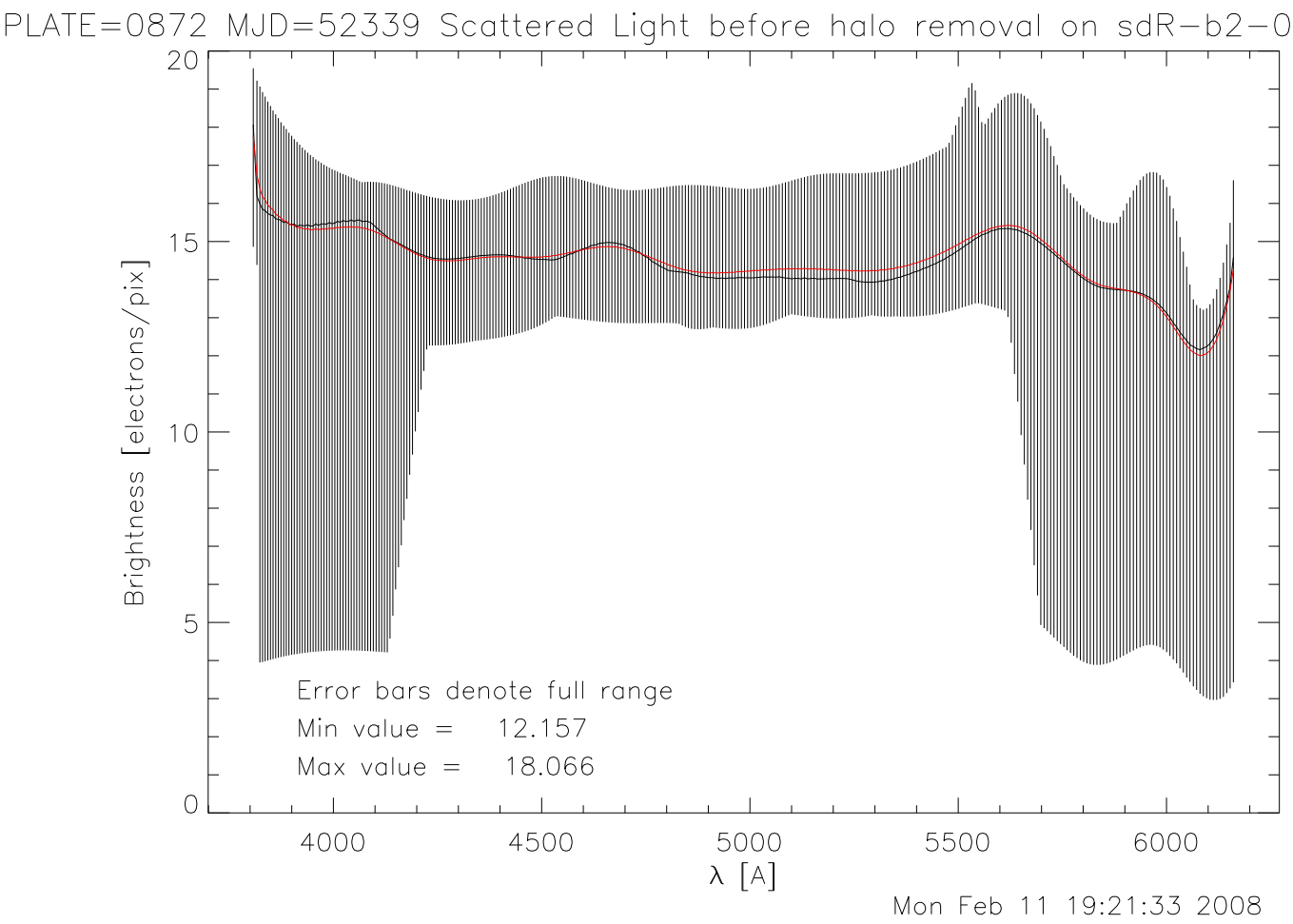

PLATE=0872 MJD=52339 flat extraction chi^2 for sdR−b2−00013704.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

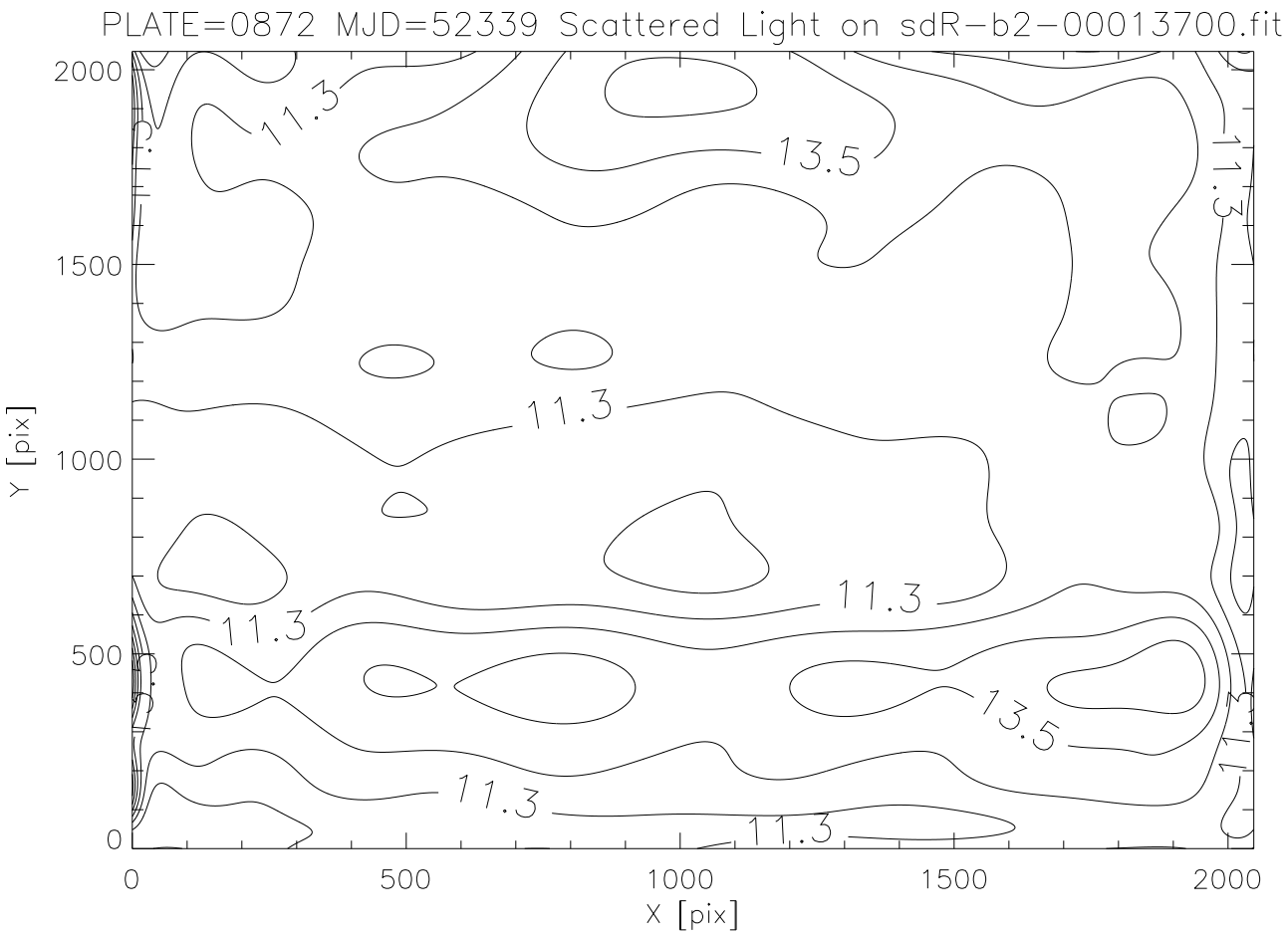

PLATE=0872 MJD=52339 Superflat sdR-b2-00013704.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

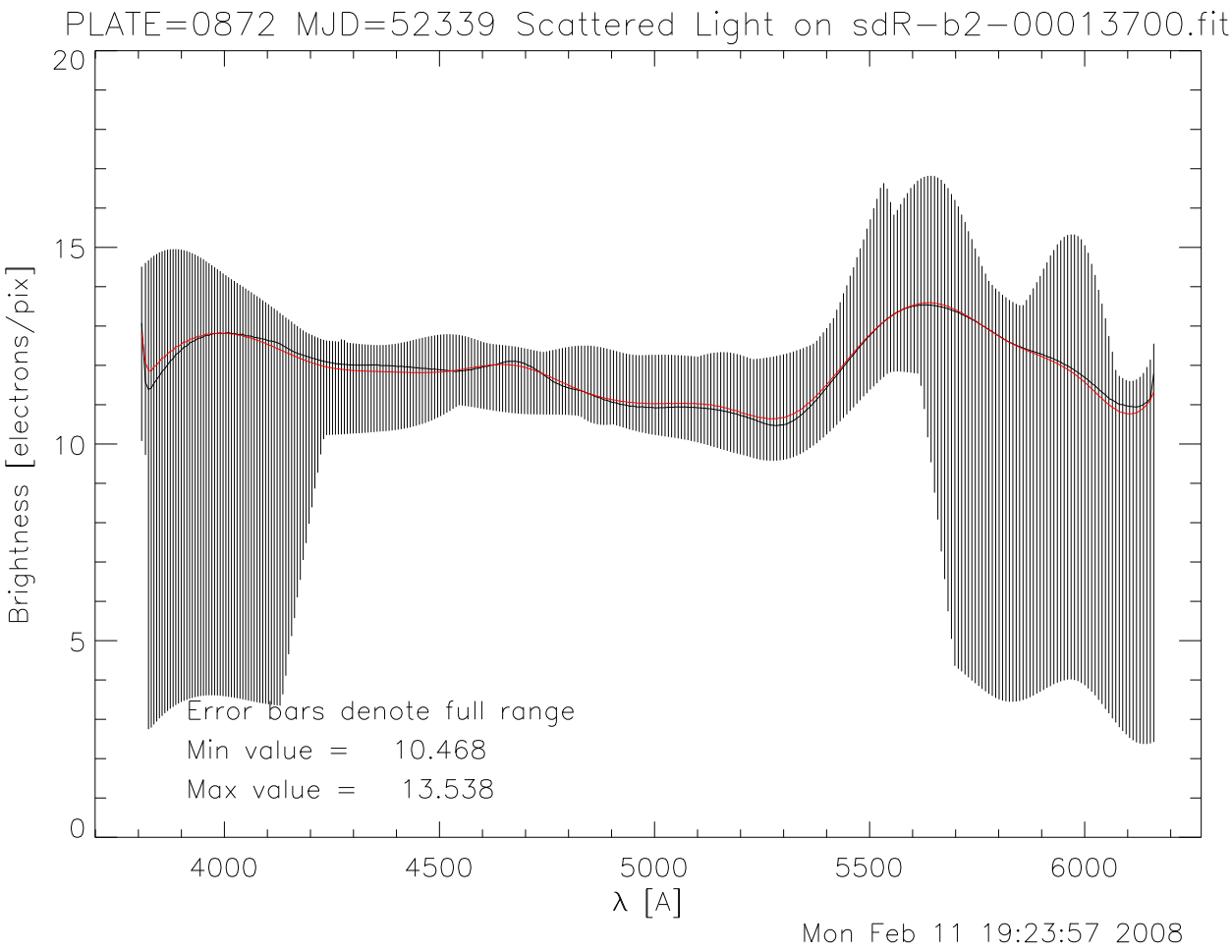

PLATE=0872 MJD=52339 Arcline Fit for sdR-b2-00013705.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:20:31 2008

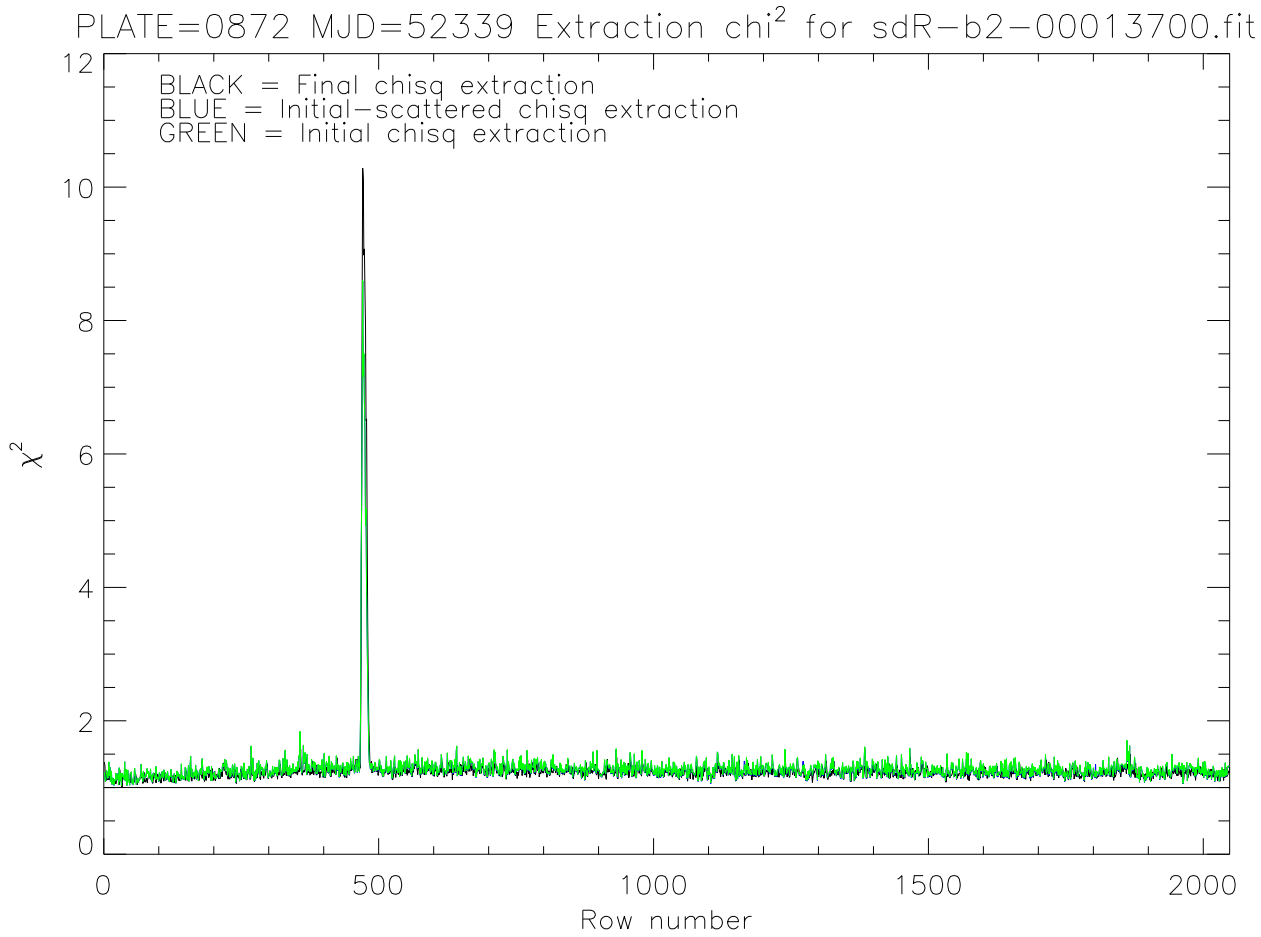

PLATE=0872 MJD=52339 Fiber-Flats for sdR-b2-00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.461
Max value = 1.197
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:20:38 2008

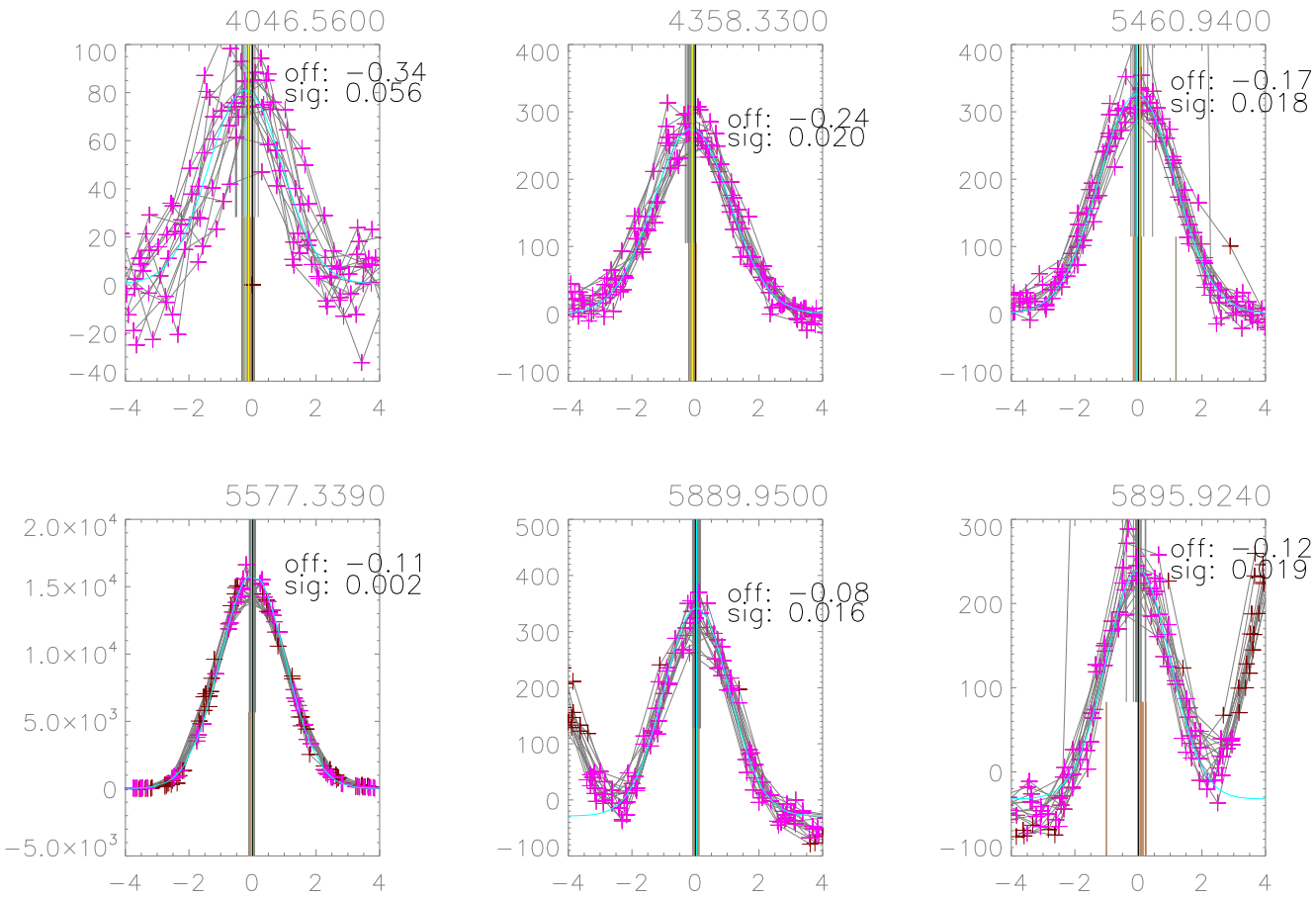

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b2-00013700.f
17.6
15.5
13.3
Y [pix]
X [pix]
0
500
1000
1500
2000

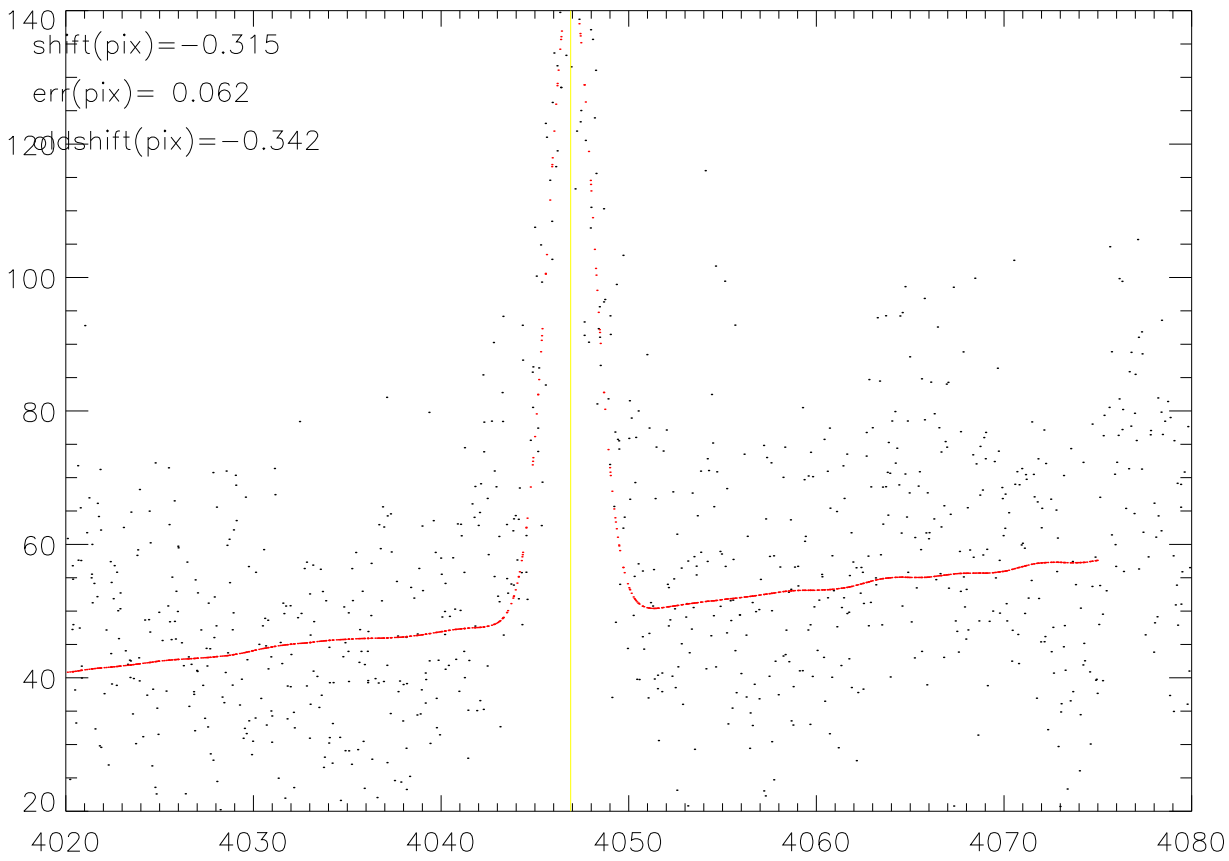

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b2-00013700.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 12.157
Max value = 18.066
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:21:33 2008

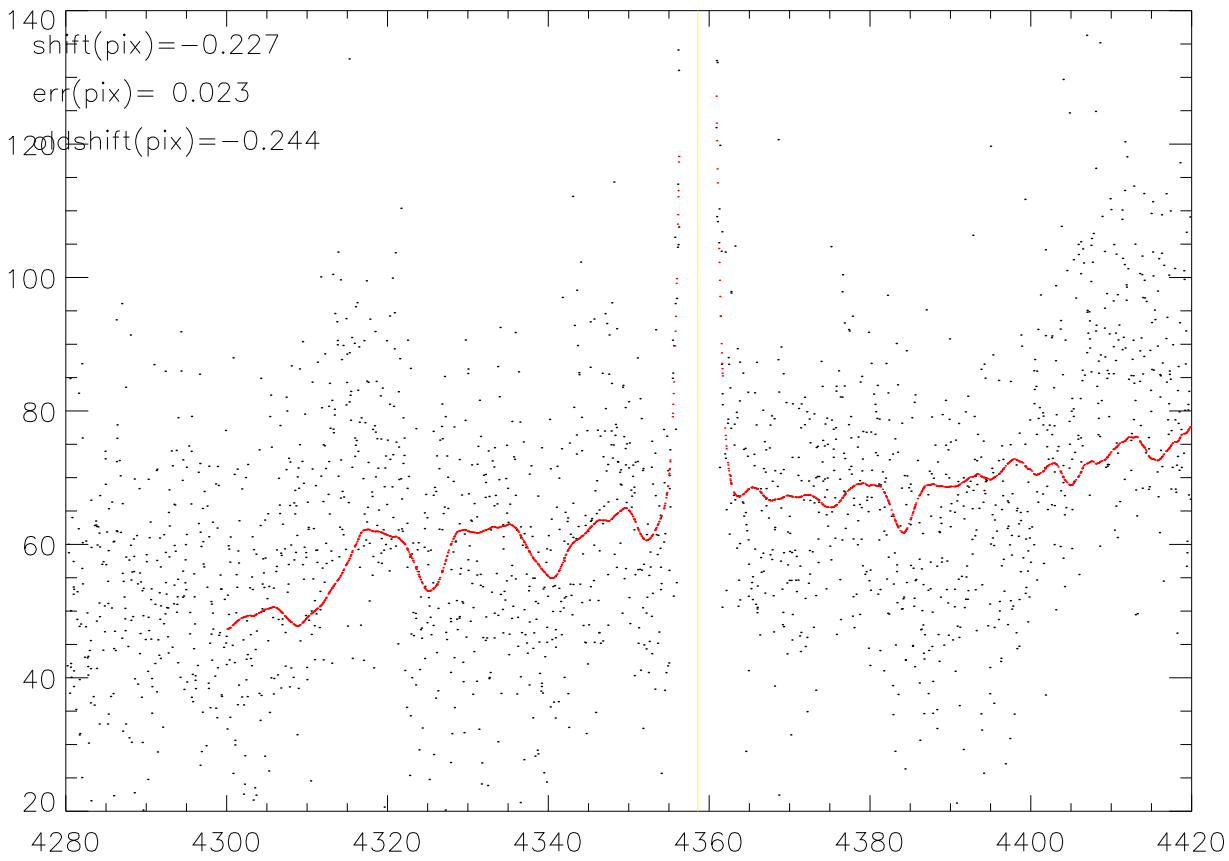

PLATE=0872 MJD=52339 Scattered Light on sdR-b2-00013700.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
11.3
13.5
11.3
11.3
11.3
13.5
11.3
11.3
11.3
11.3

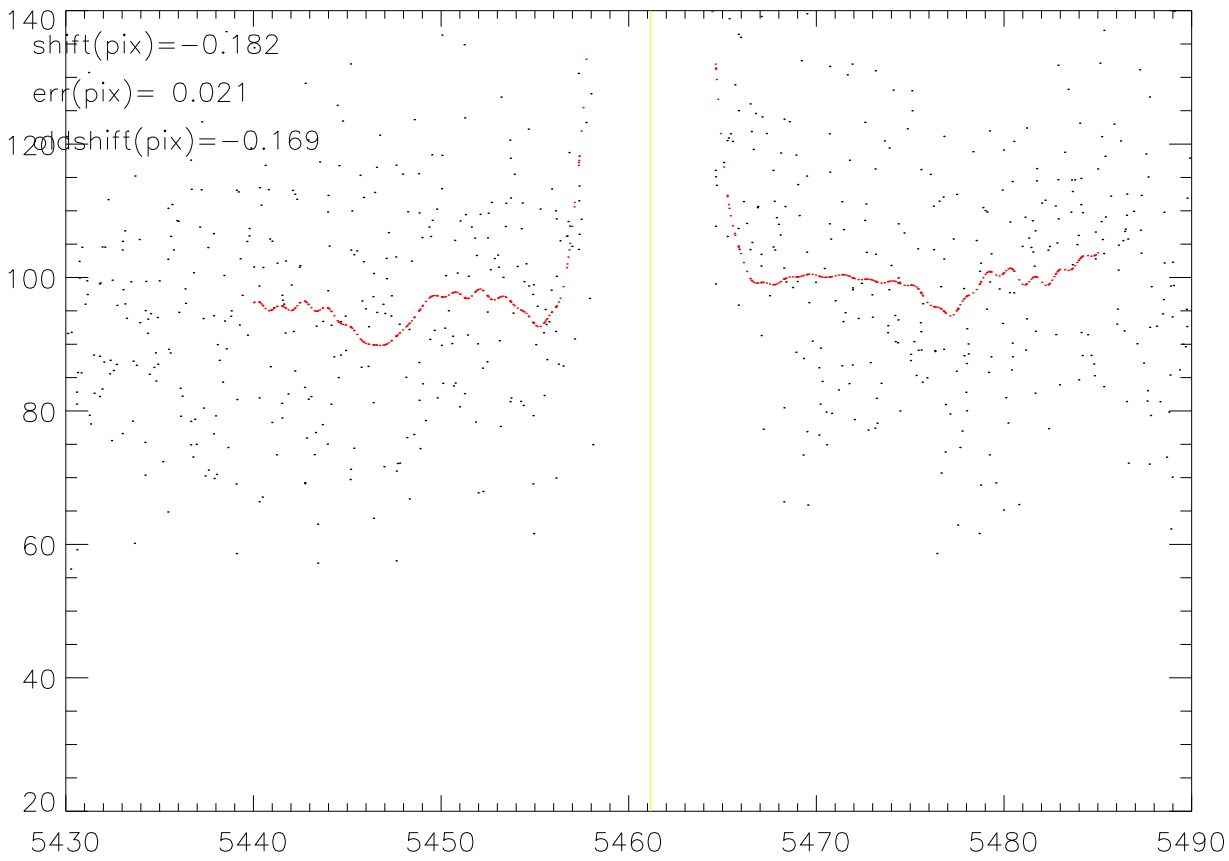

PLATE=0872 MJD=52339 Scattered Light on sdR-b2-00013700.fit
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 10.468
Max value = 13.538
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:23:57 2008

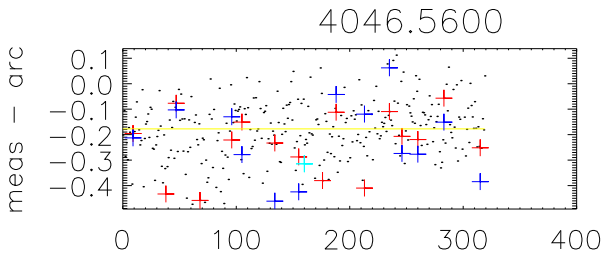

PLATE=0872 MJD=52339 Extraction chi^2 for sdR−b2−00013700.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
0
500
1000
1500
2000
Row number

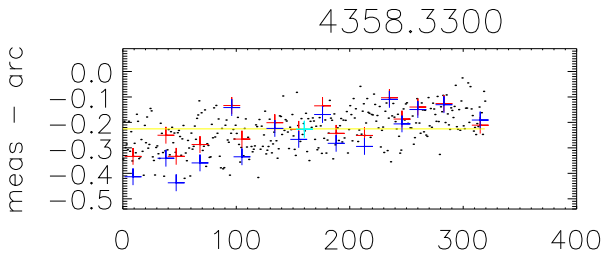

4046.5600
off: −0.34
sig: 0.056
4358.3300
off: −0.24
sig: 0.020
5460.9400
off: −0.17
sig: 0.018
5577.3390
off: −0.11
sig: 0.002
5889.9500
off: −0.08
sig: 0.016
5895.9240
off: −0.12
sig: 0.019

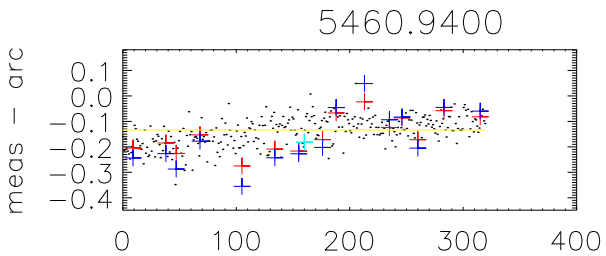

shift(pix)=−0.315
err(pix)= 0.062
oldshift(pix)=−0.342
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

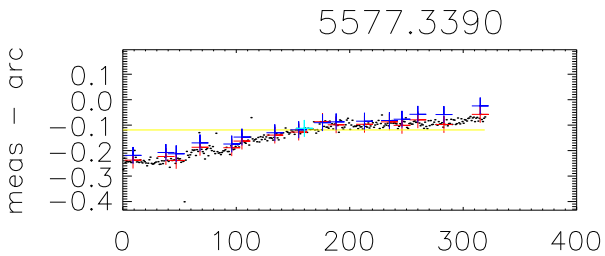

shift(pix)=−0.227
err(pix)= 0.023
oldshift(pix)=−0.244
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

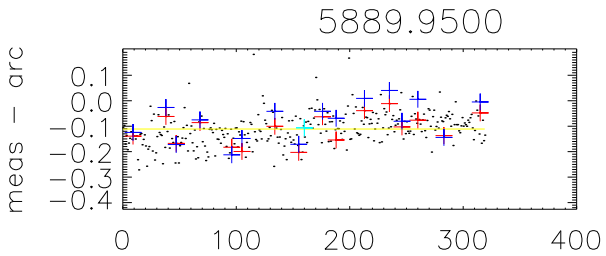

shift(pix)=−0.182
err(pix)= 0.021
oldshift(pix)=−0.169
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

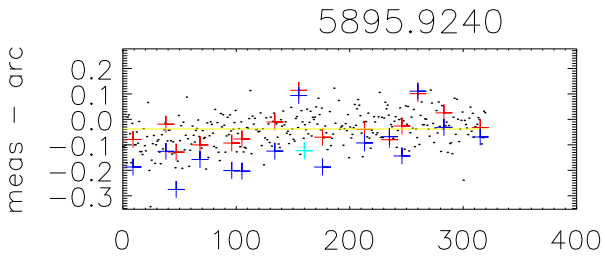

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

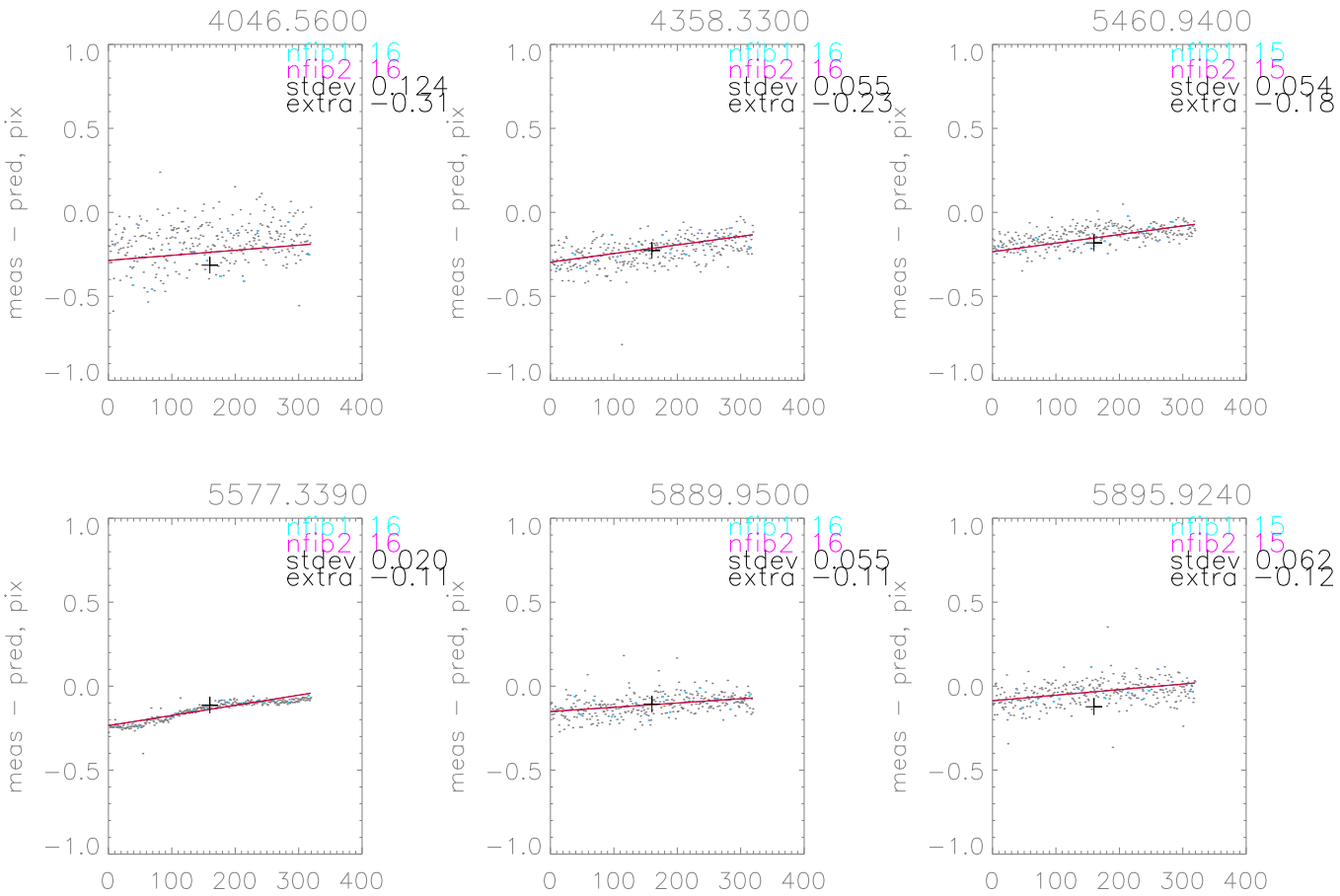

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

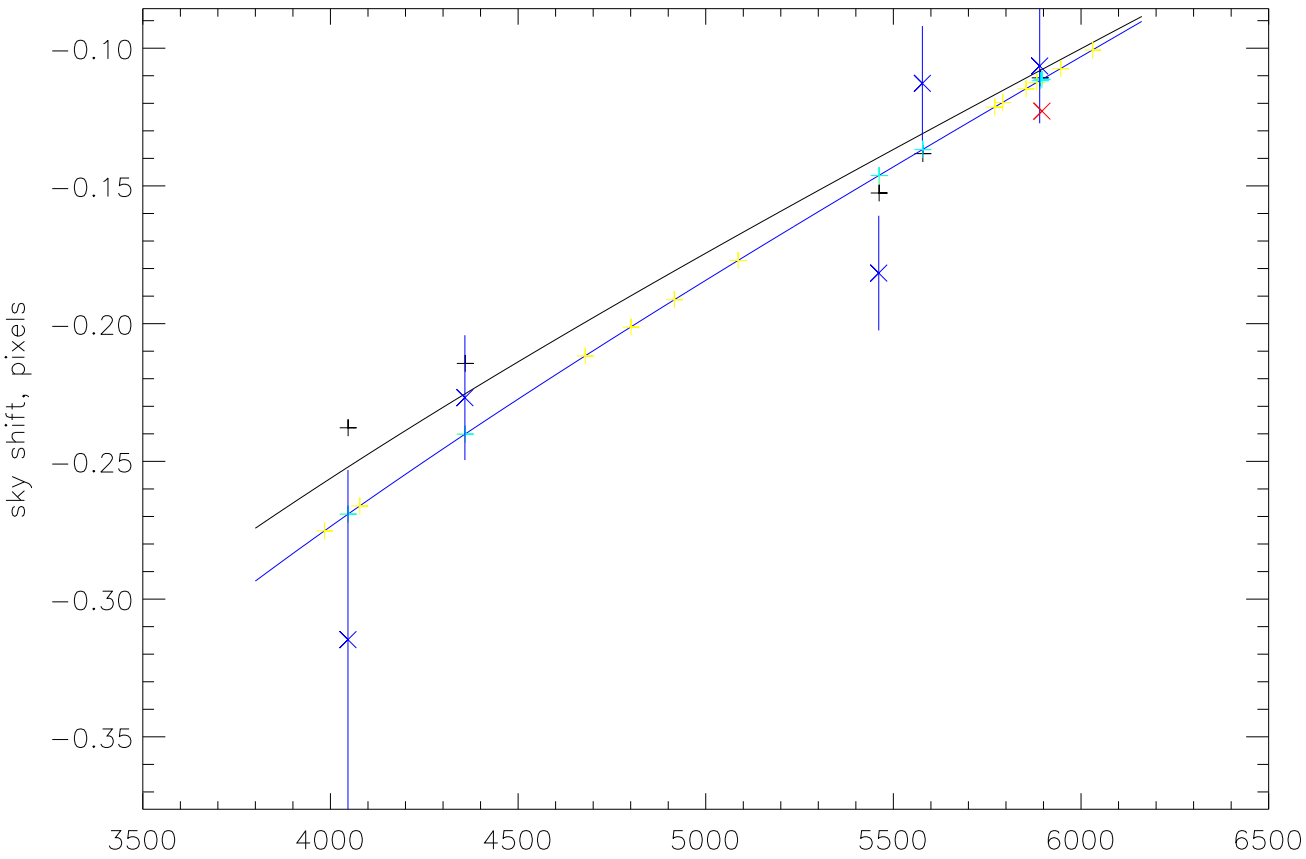

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

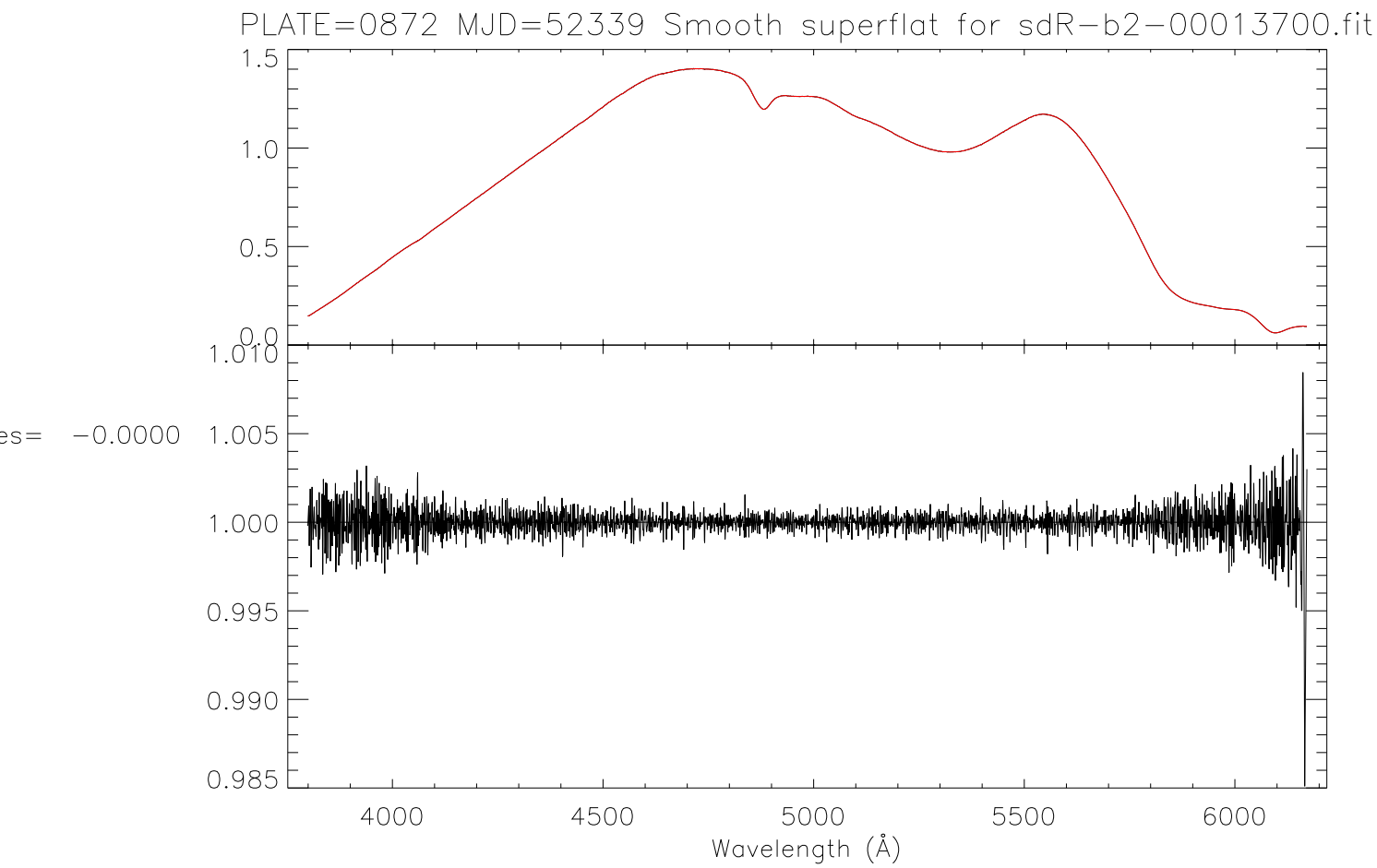

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

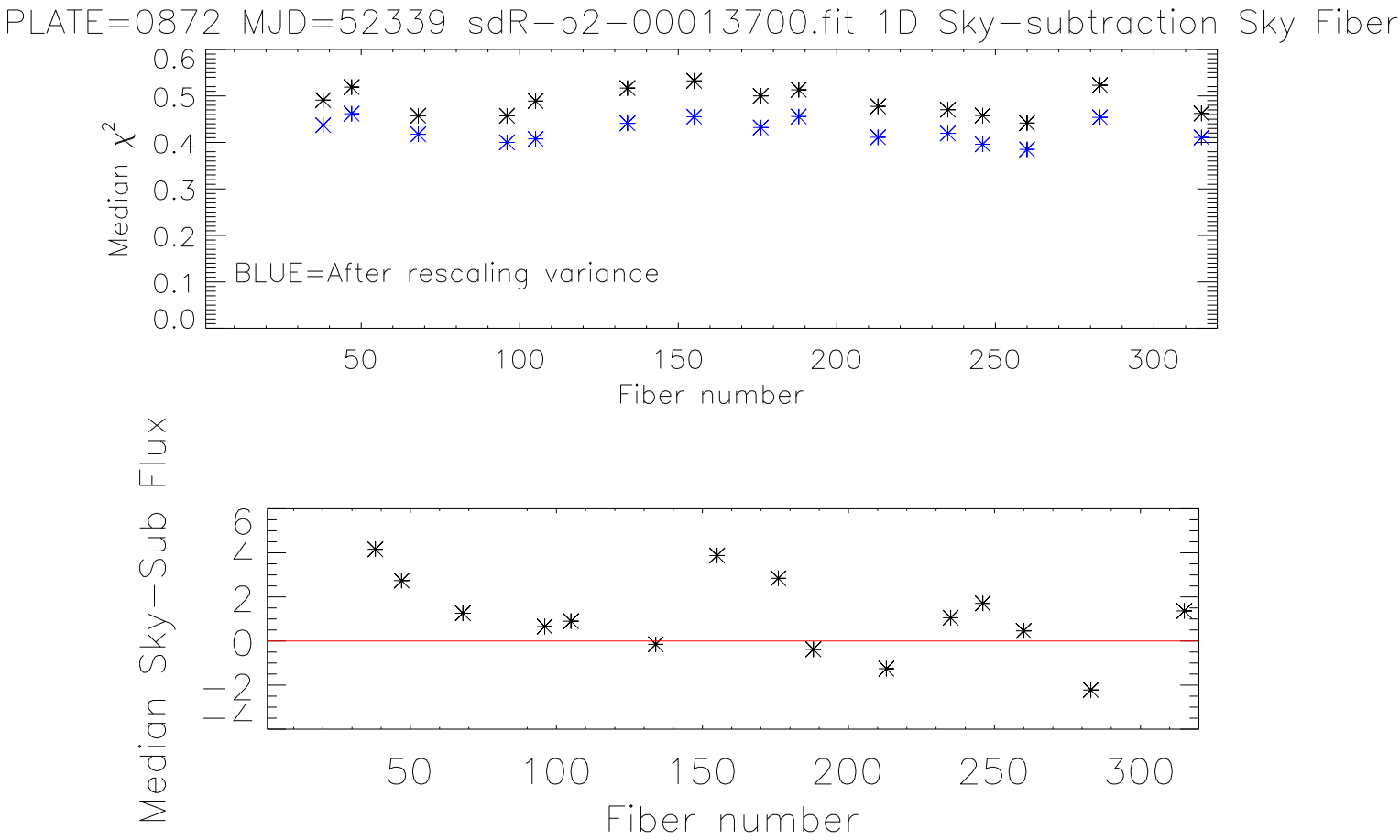

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

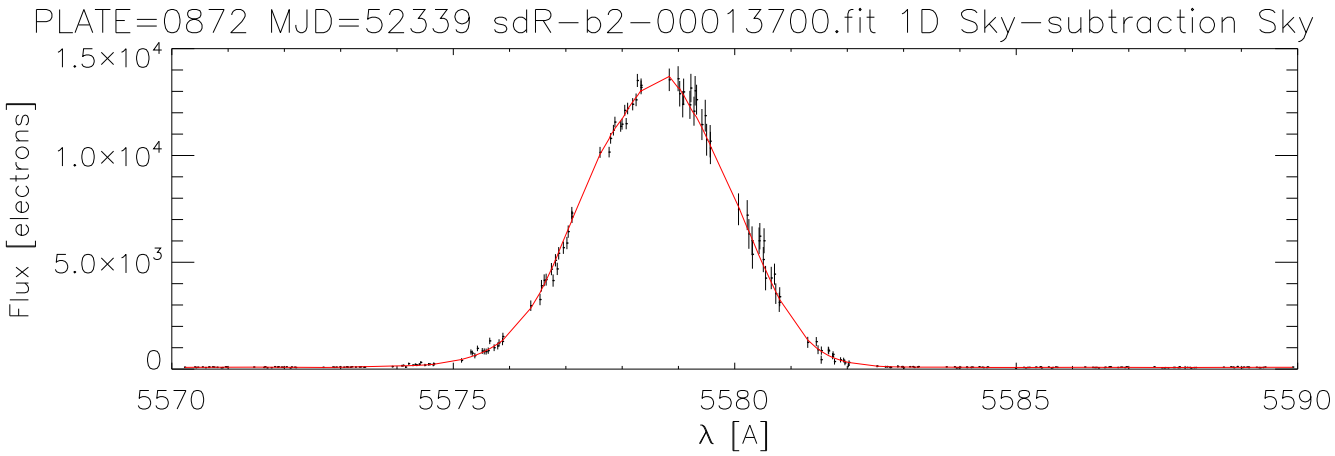

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

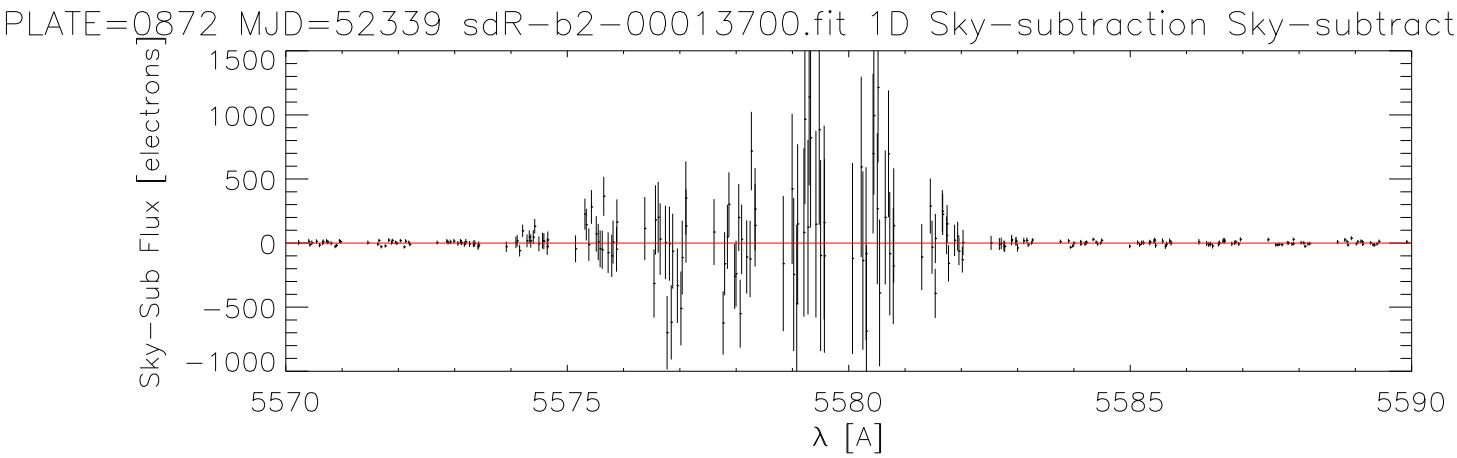

4046.5600
nfib1 16
nfib2 16
stdev 0.124
extra −0.31
4358.3300
nfib1 16
nfib2 16
stdev 0.055
extra −0.23
5460.9400
nfib1 15
nfib2 15
stdev 0.054
extra −0.18
5577.3390
nfib1 16
nfib2 16
stdev 0.020
extra −0.11
5889.9500
nfib1 16
nfib2 16
stdev 0.055
extra −0.11
5895.9240
nfib1 15
nfib2 15
stdev 0.062
extra −0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

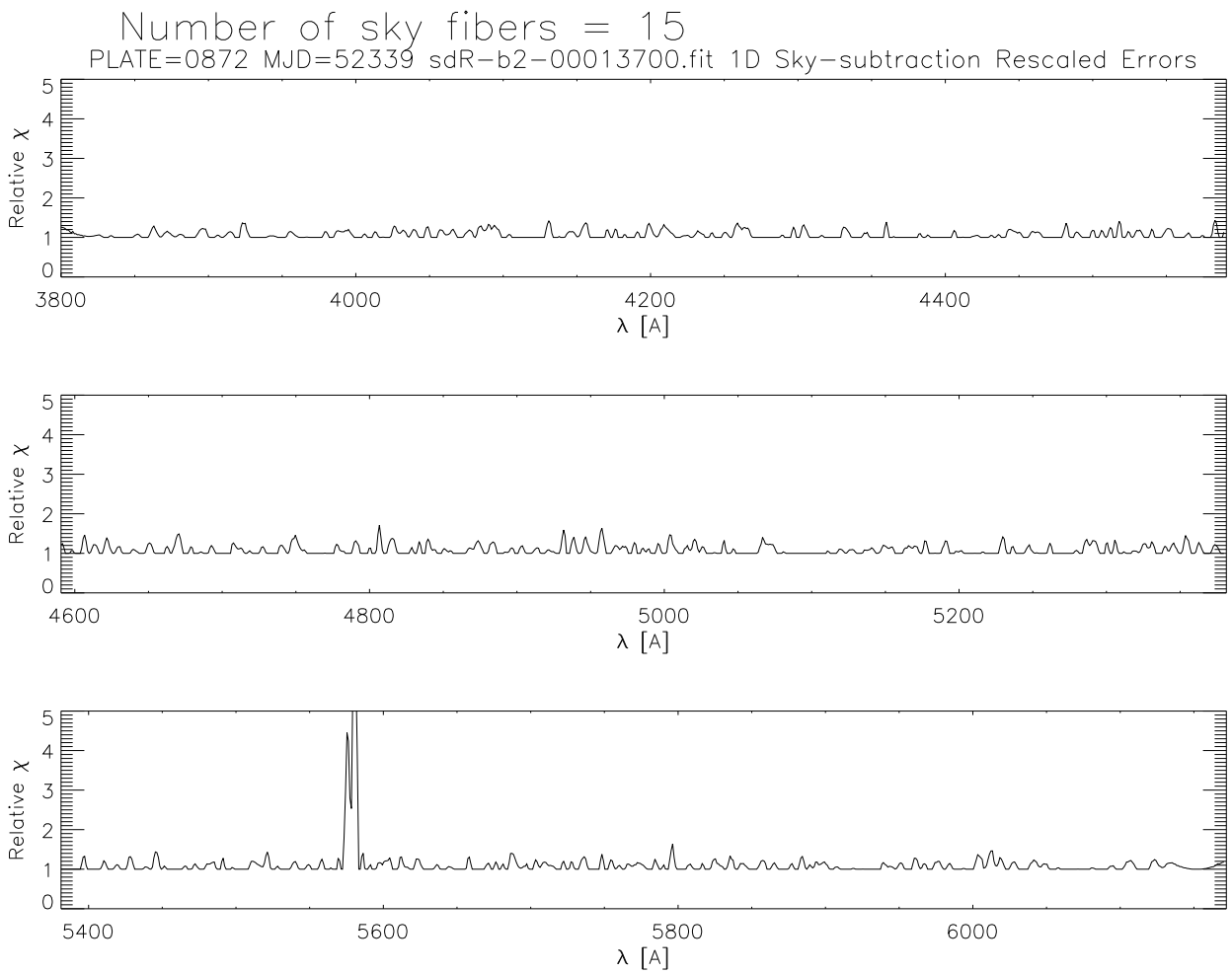

−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

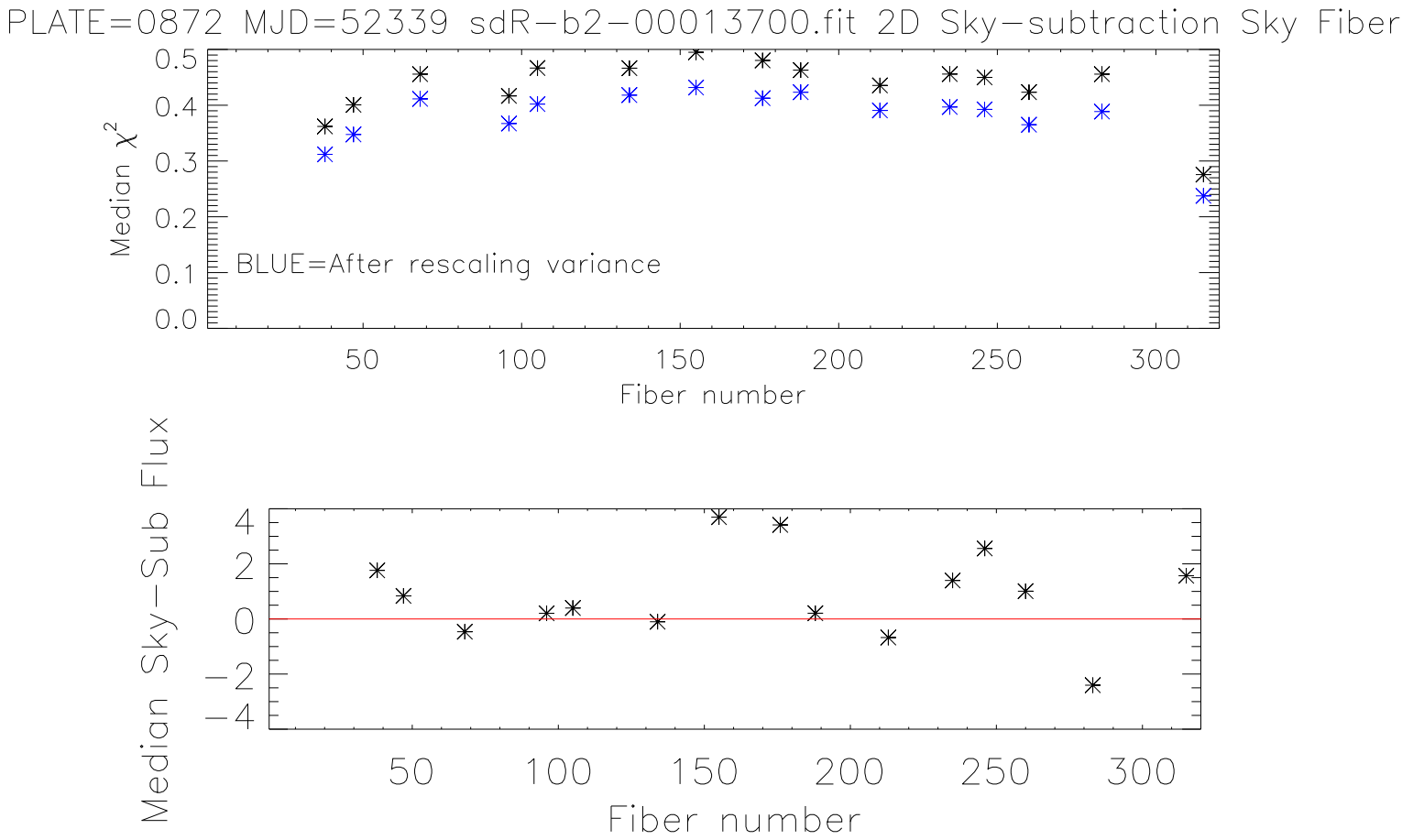

PLATE=0872 MJD=52339 Smooth superflat for sdR-b2-00013700.fit
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
4000
4500
5000
5500
6000
Wavelength (Å)

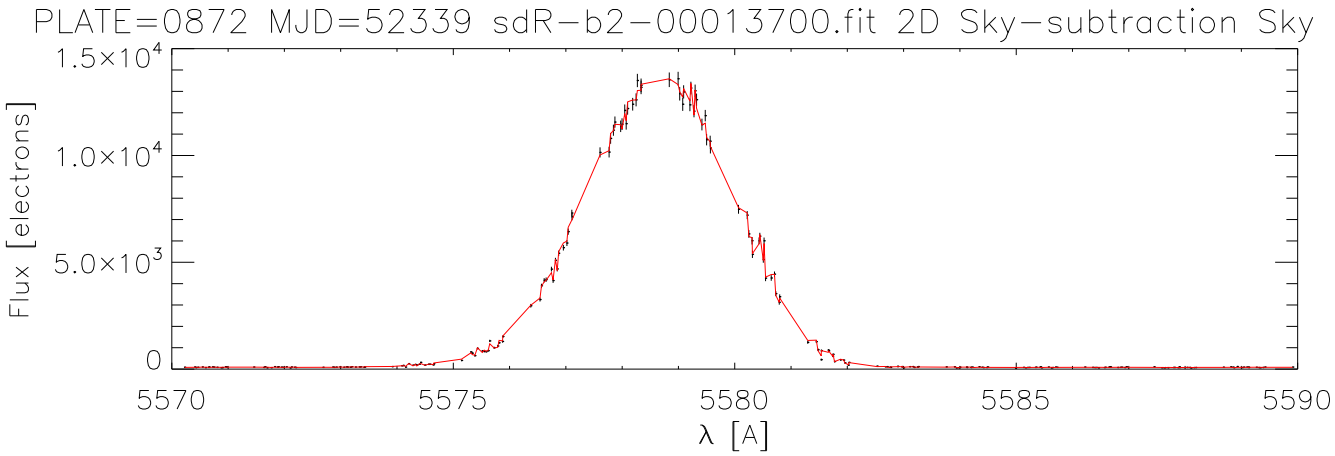

PLATE=0872 MJD=52339 sdR-b2-00013700.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

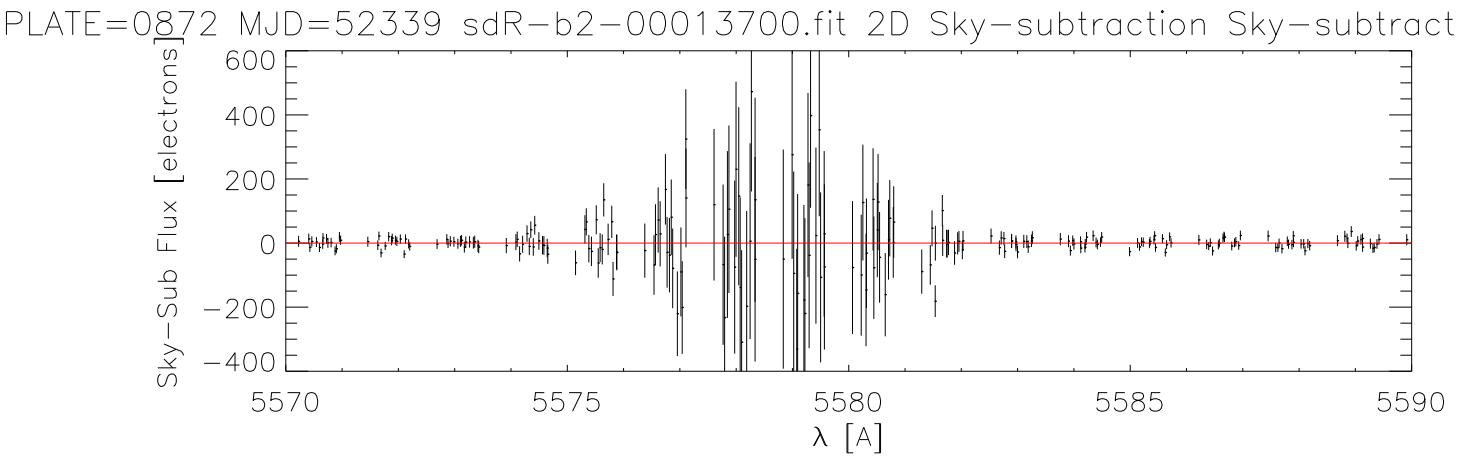

PLATE=0872 MJD=52339 sdR-b2-00013700.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

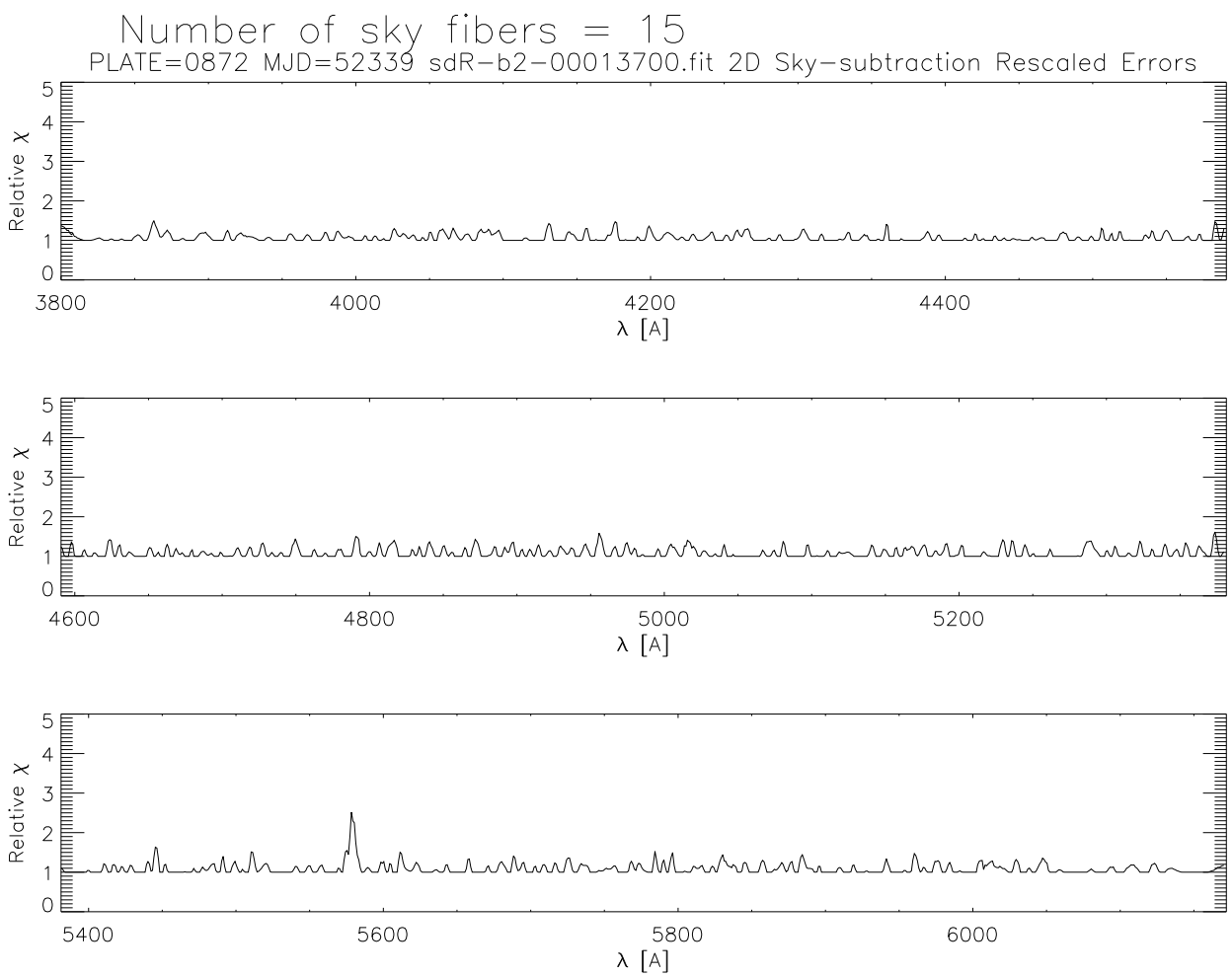

PLATE=0872 MJD=52339 sdR-b2-00013700.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

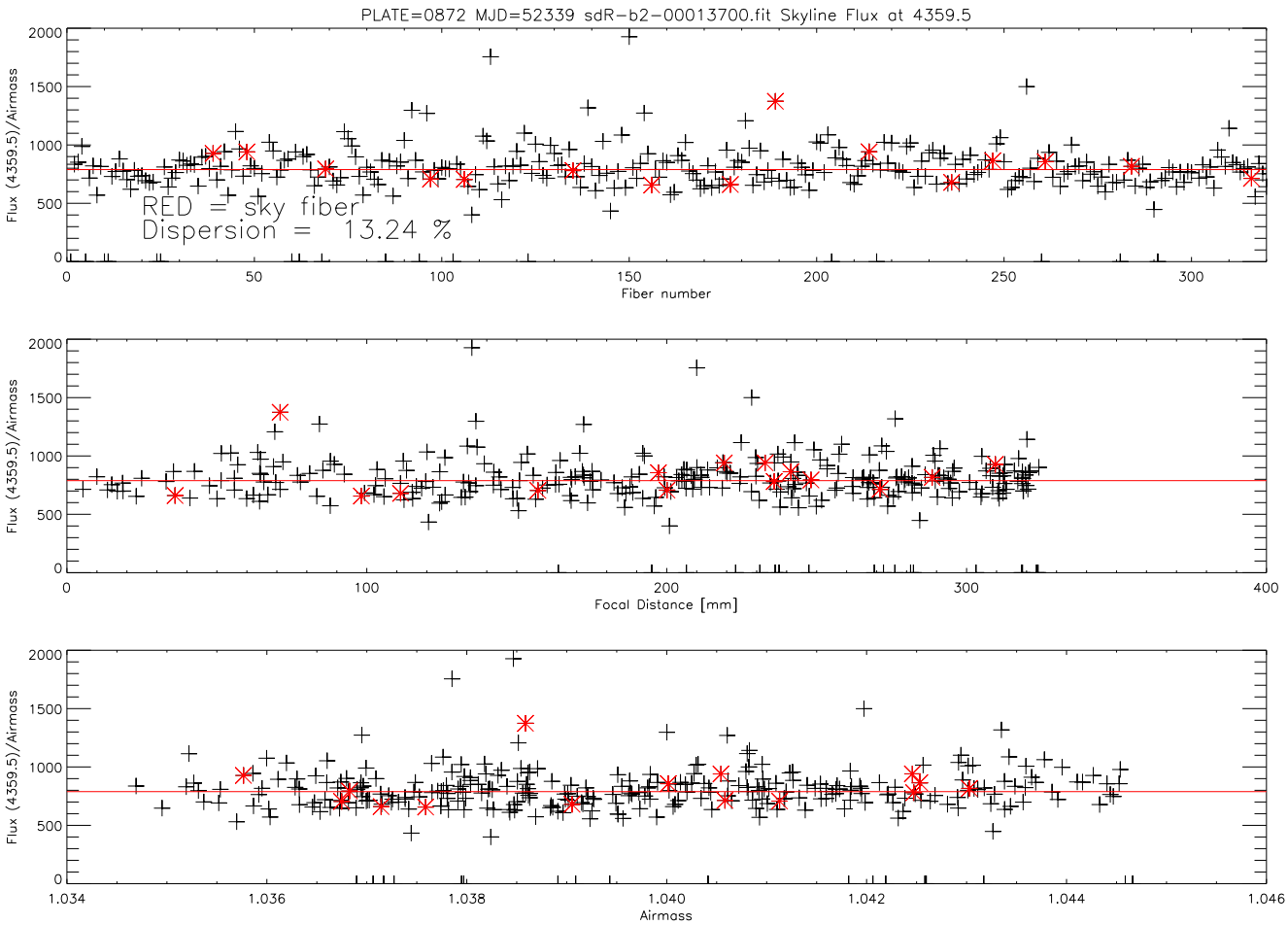

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b2-00013700.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

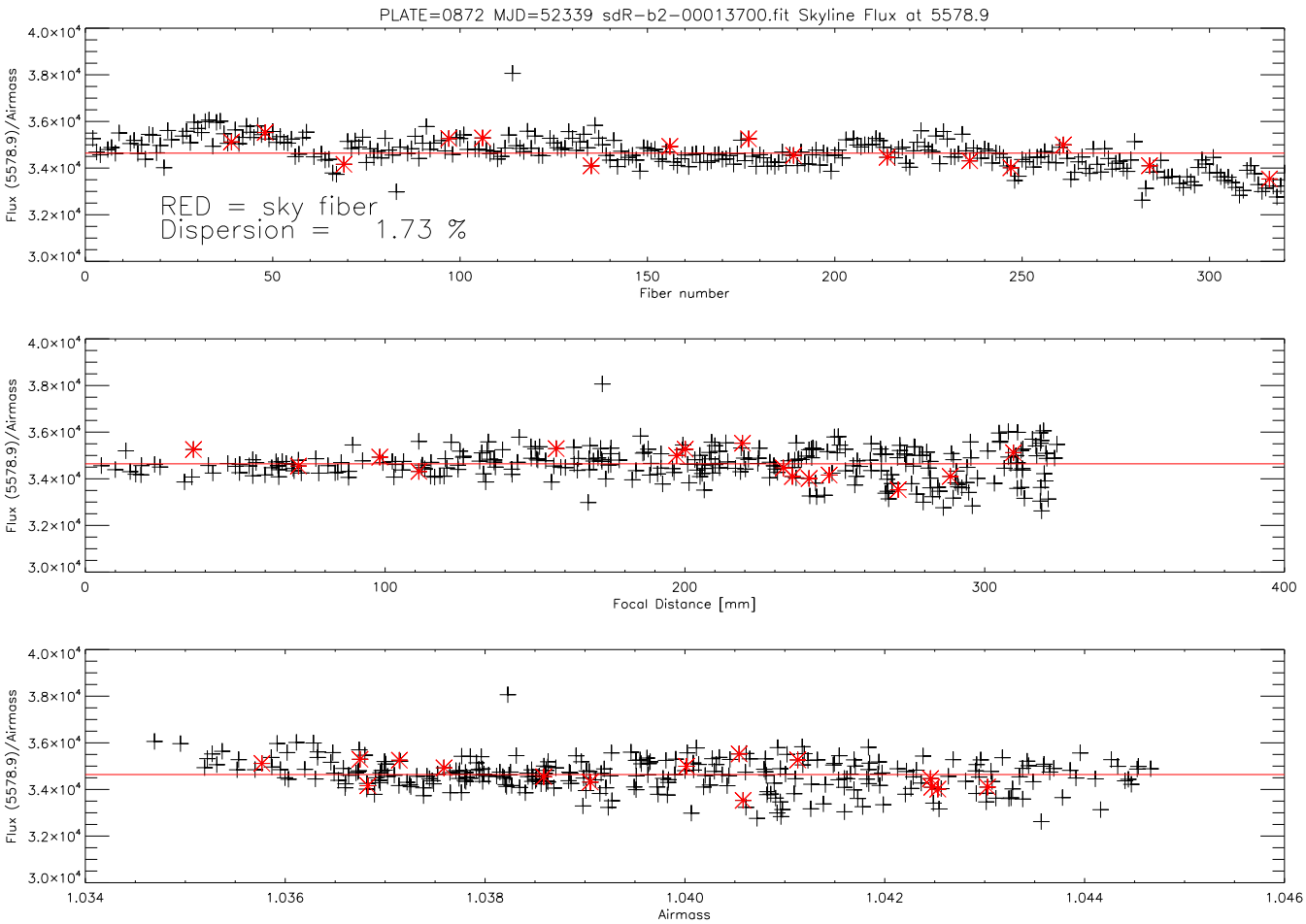

PLATE=0872 MJD=52339 sdR-b2-00013700.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

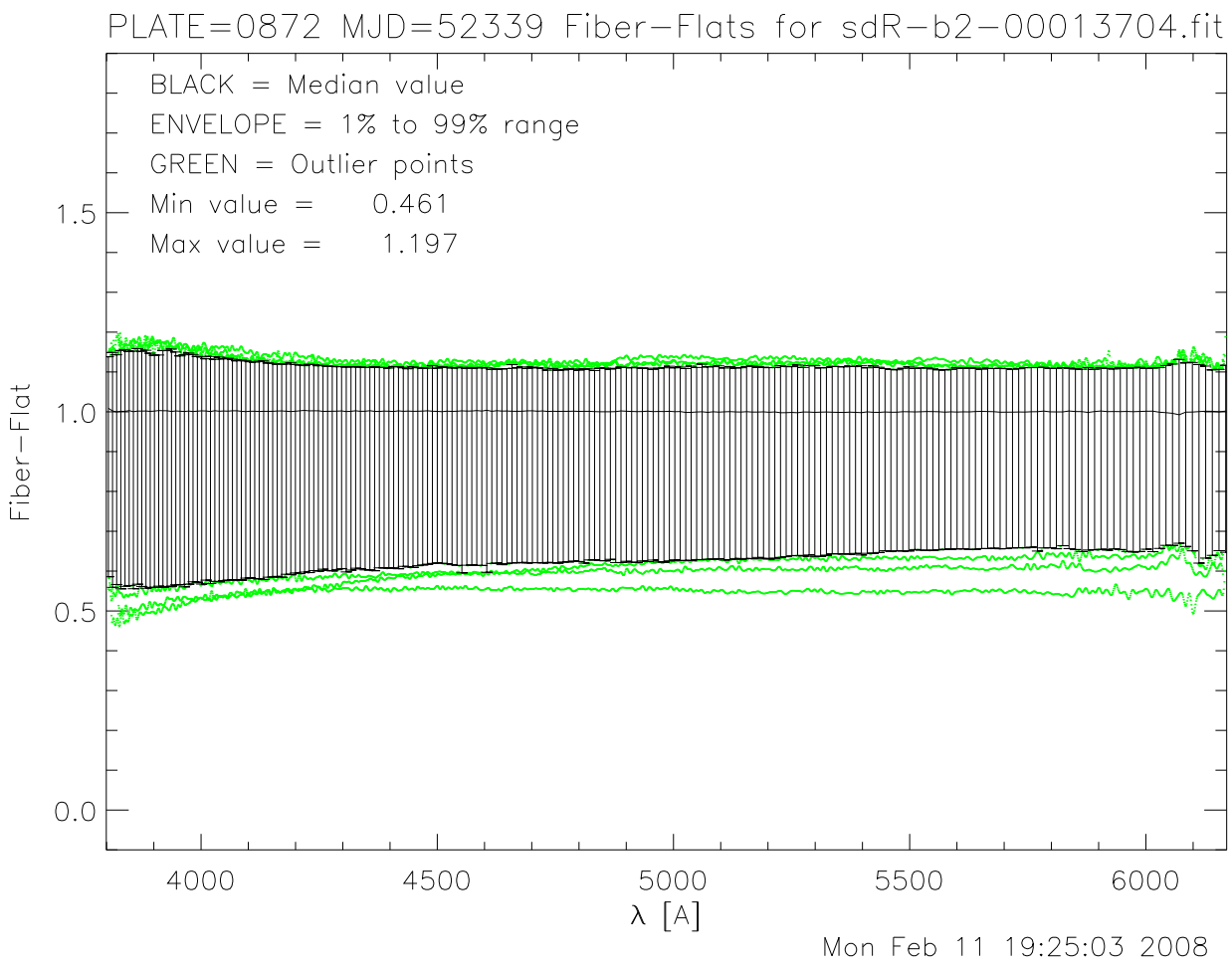

PLATE=0872 MJD=52339 sdR-b2-00013700.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

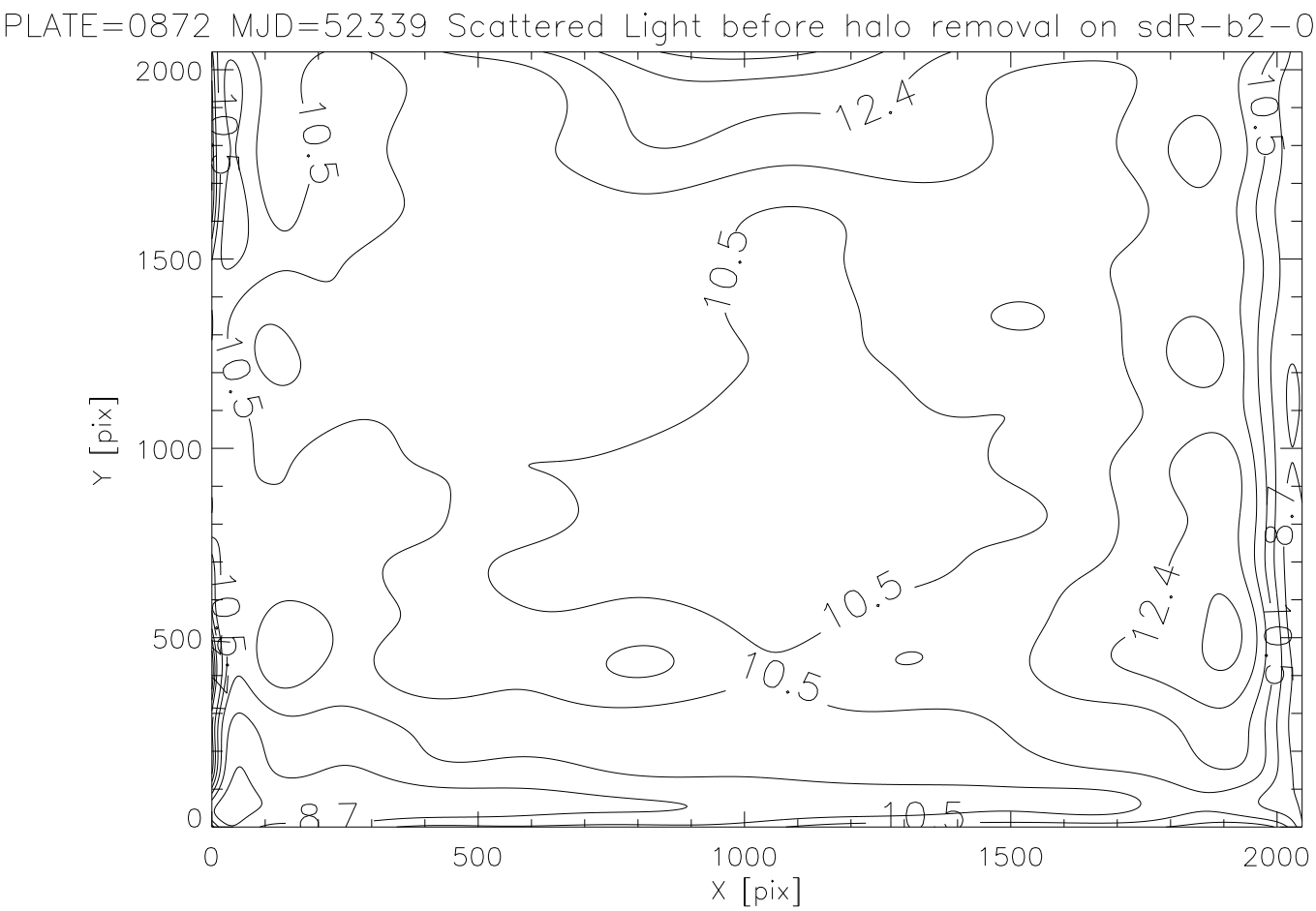

PLATE=0872 MJD=52339 sdR-b2-00013700.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

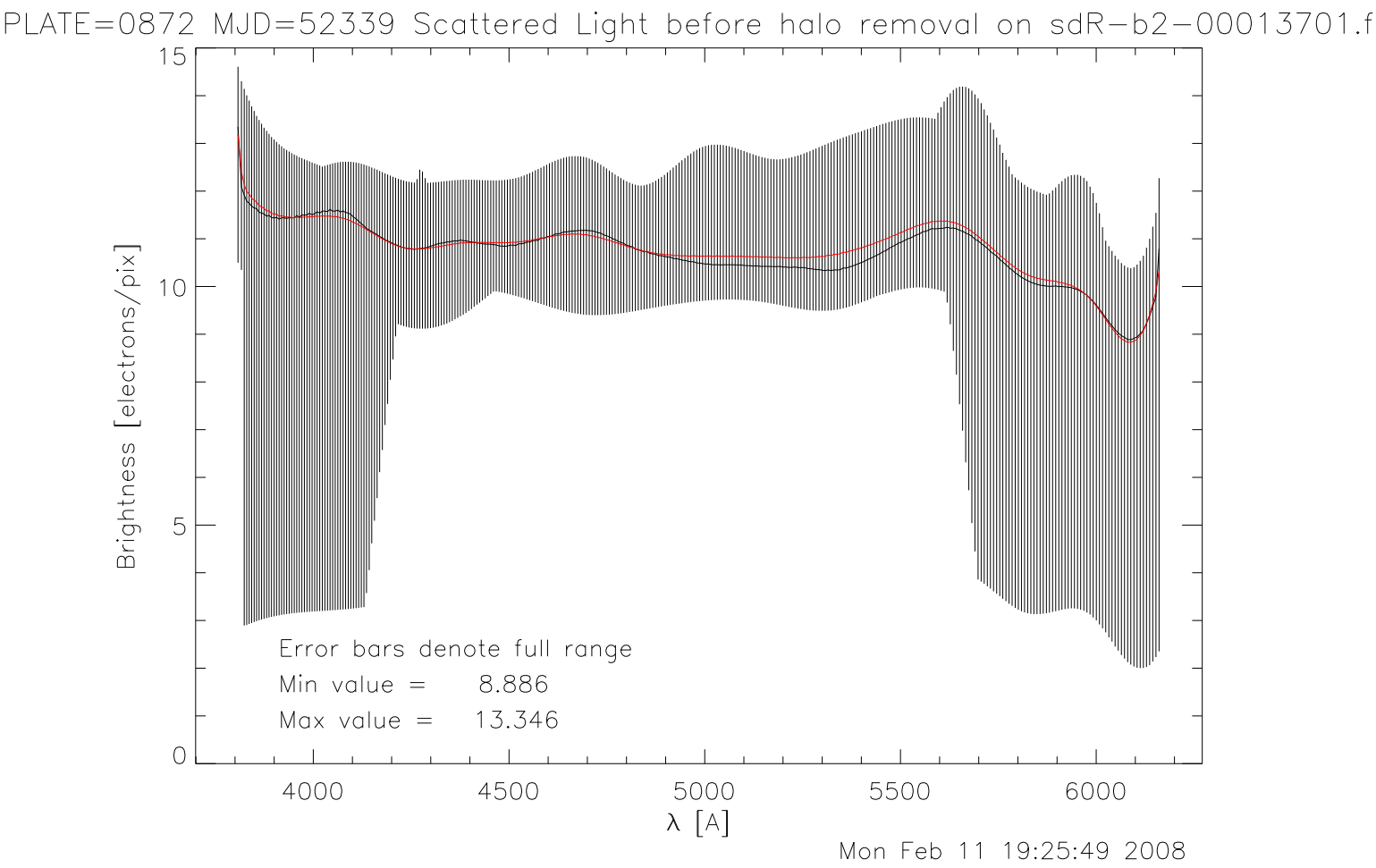

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b2-00013700.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

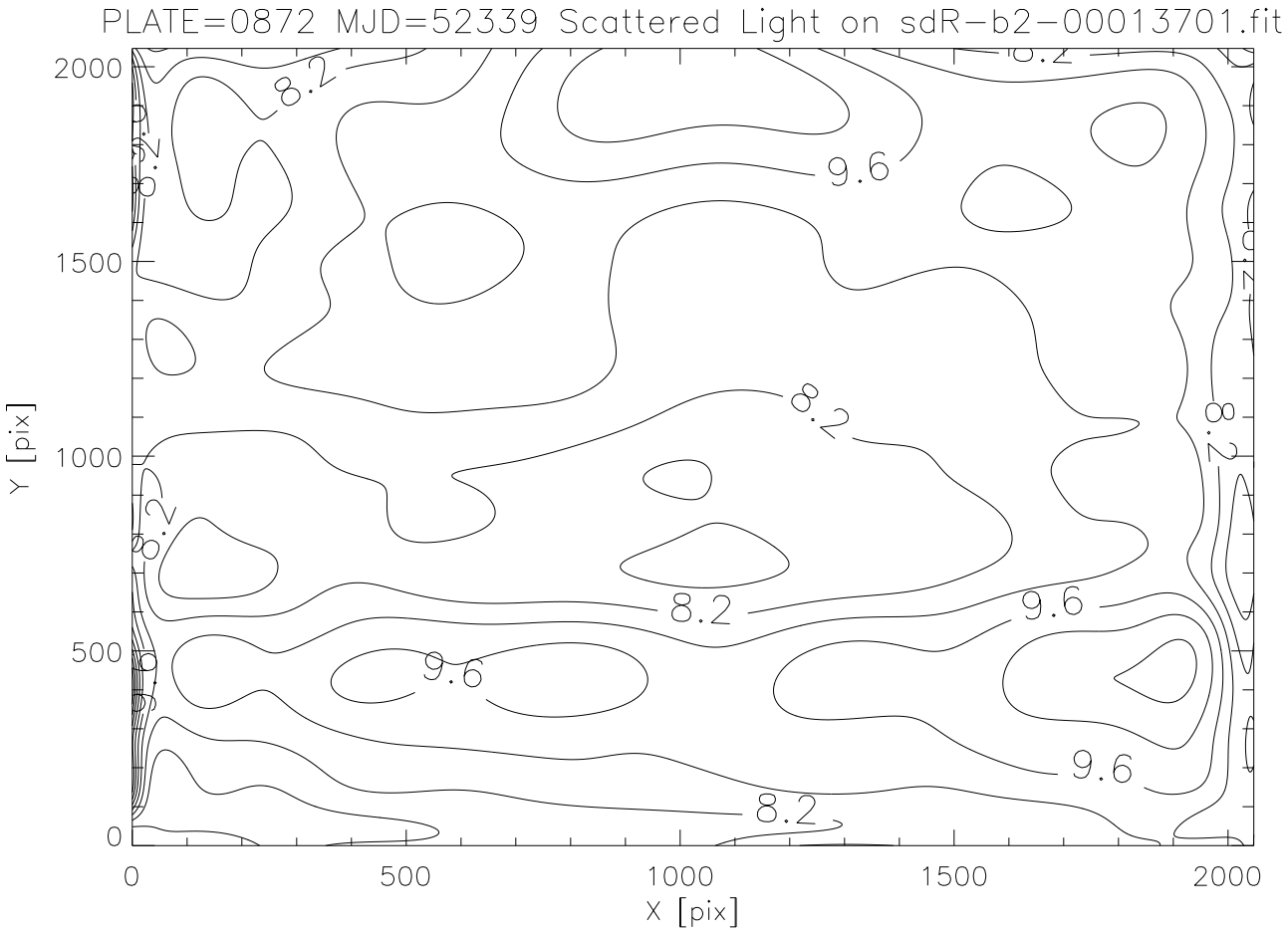

PLATE=0872 MJD=52339 sdR-b2-00013700.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.24 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

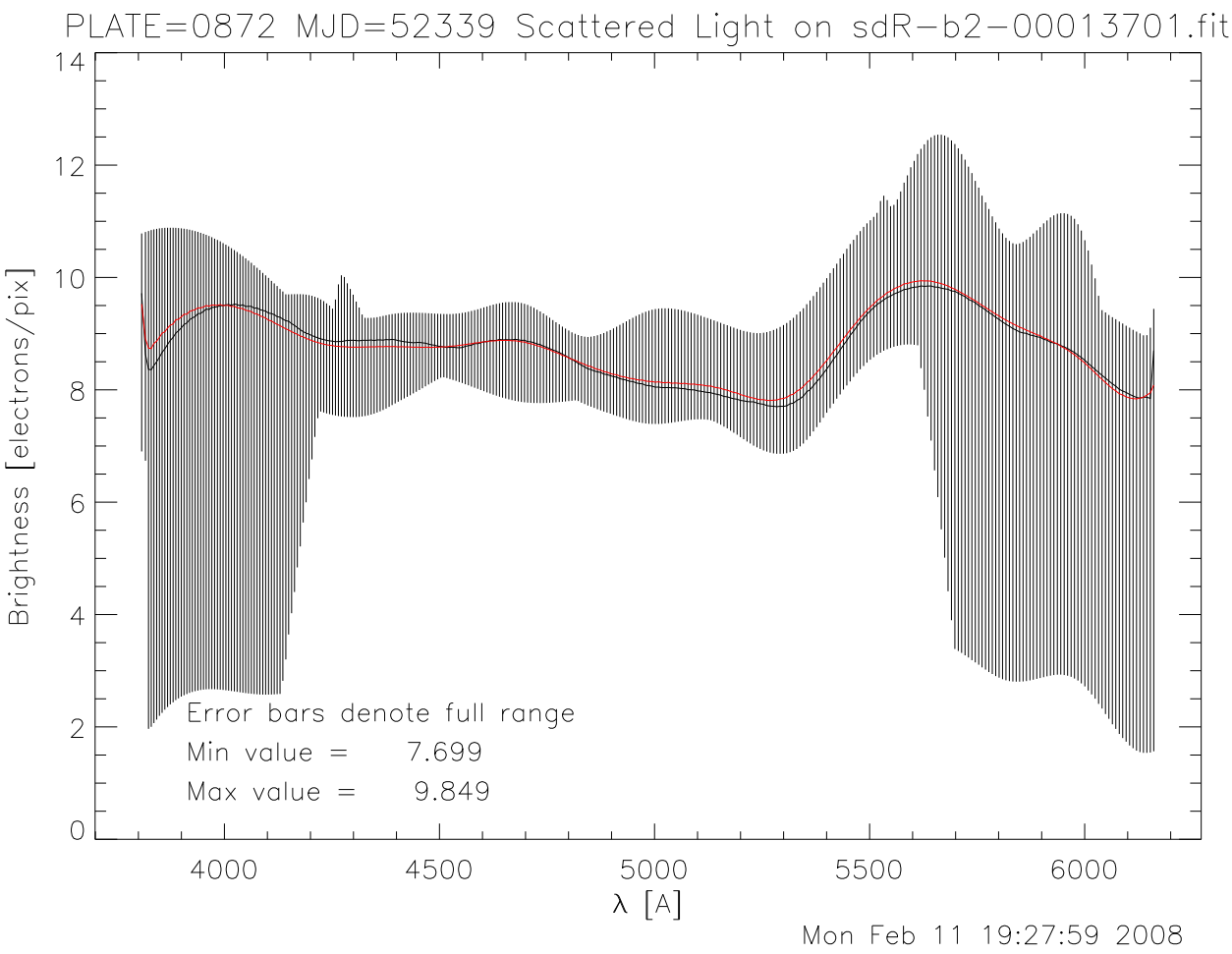

PLATE=0872 MJD=52339 sdR-b2-00013700.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.73 %
Fiber number
Focal Distance [mm]
Airmass

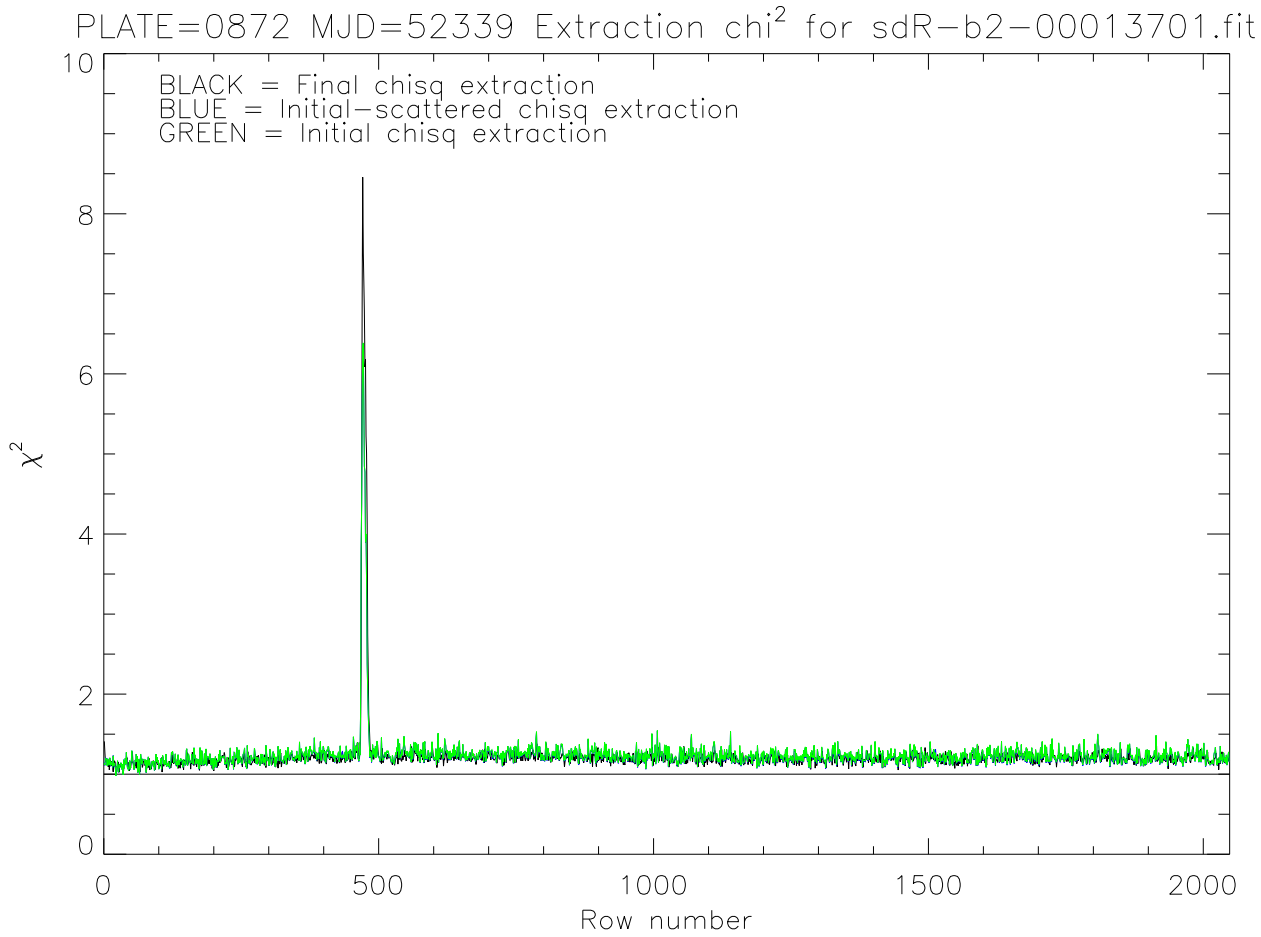

PLATE=0872 MJD=52339 Fiber-Flats for sdR-b2-00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.461
Max value = 1.197
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:25:03 2008

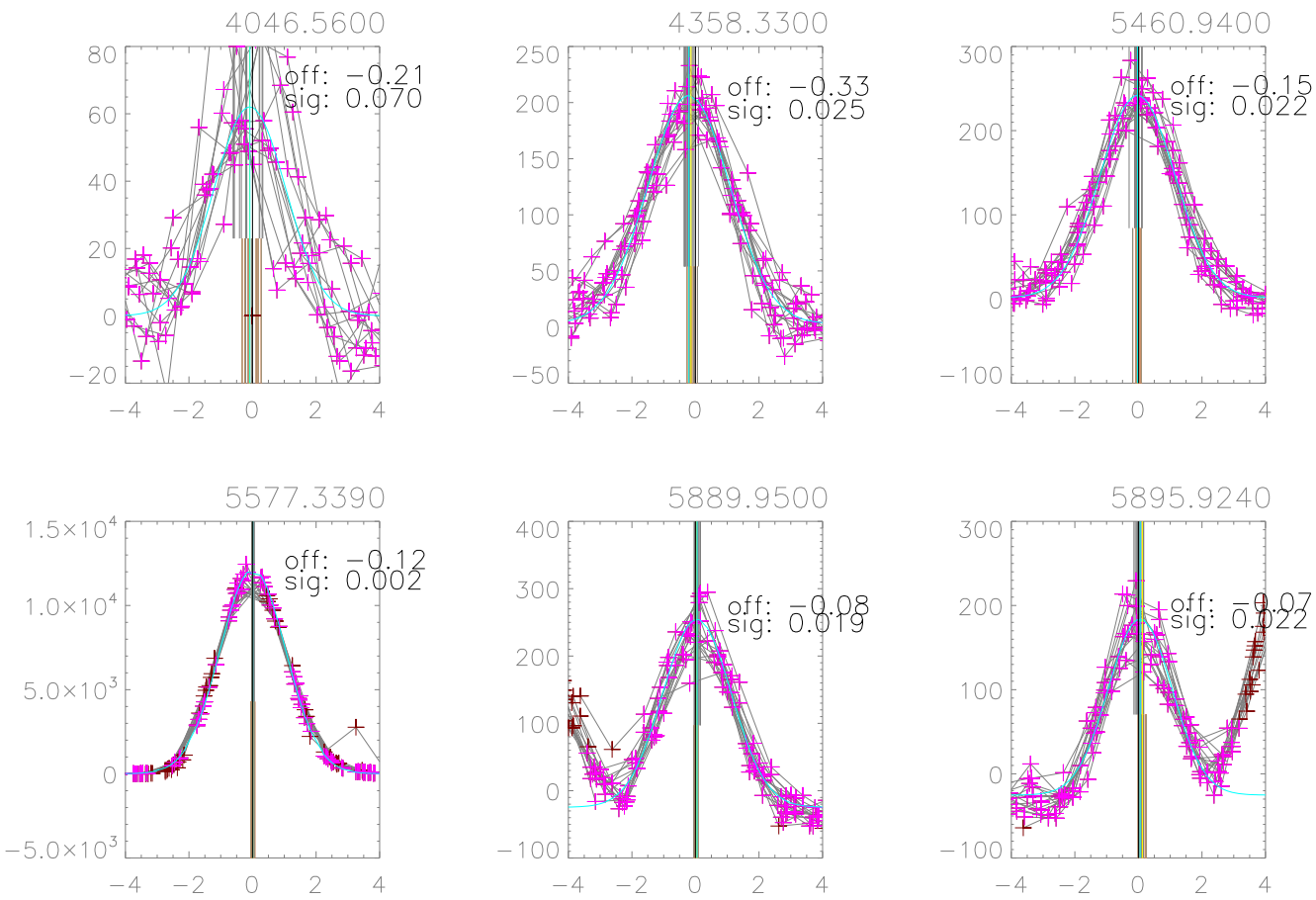

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b2-00013701.f
Y [pix]
X [pix]
0
500
1000
1500
2000
10.5
12.4
8.7

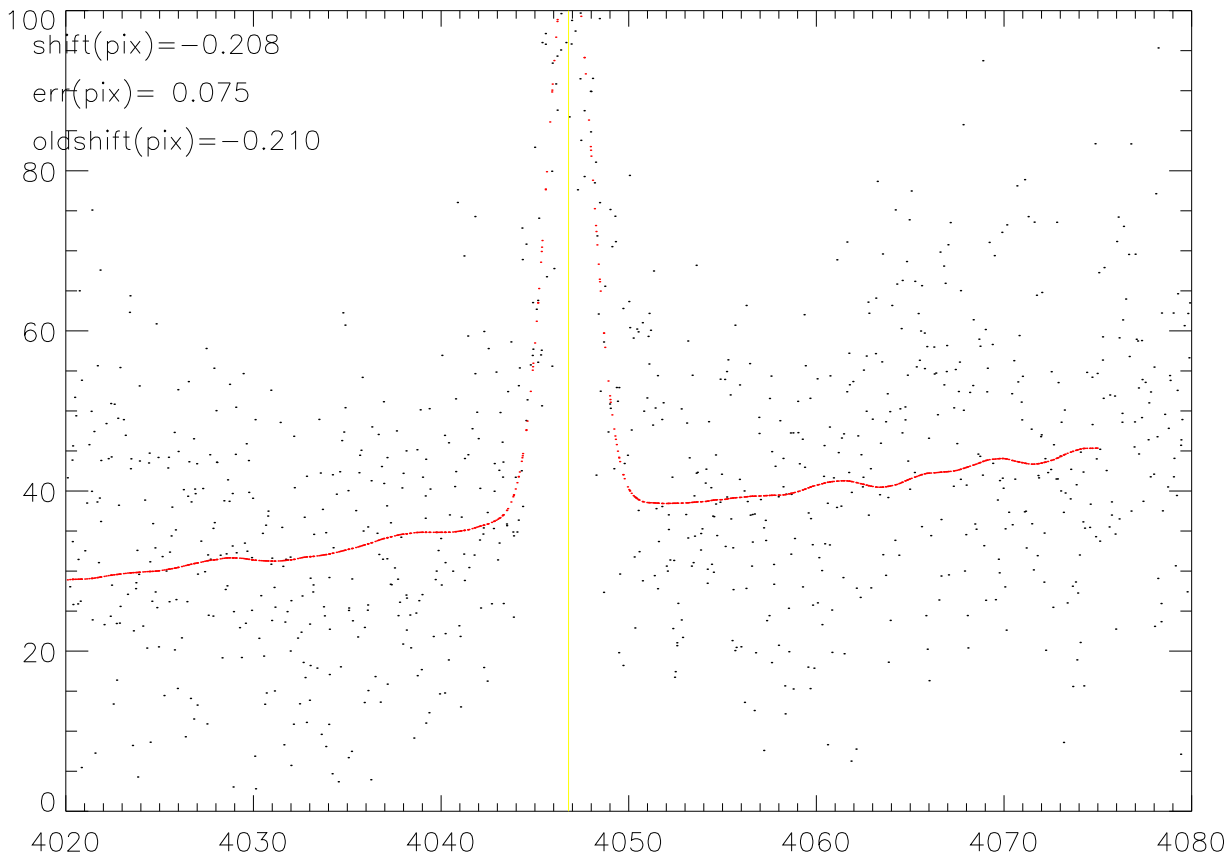

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b2-00013701.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.886
Max value = 13.346
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:25:49 2008

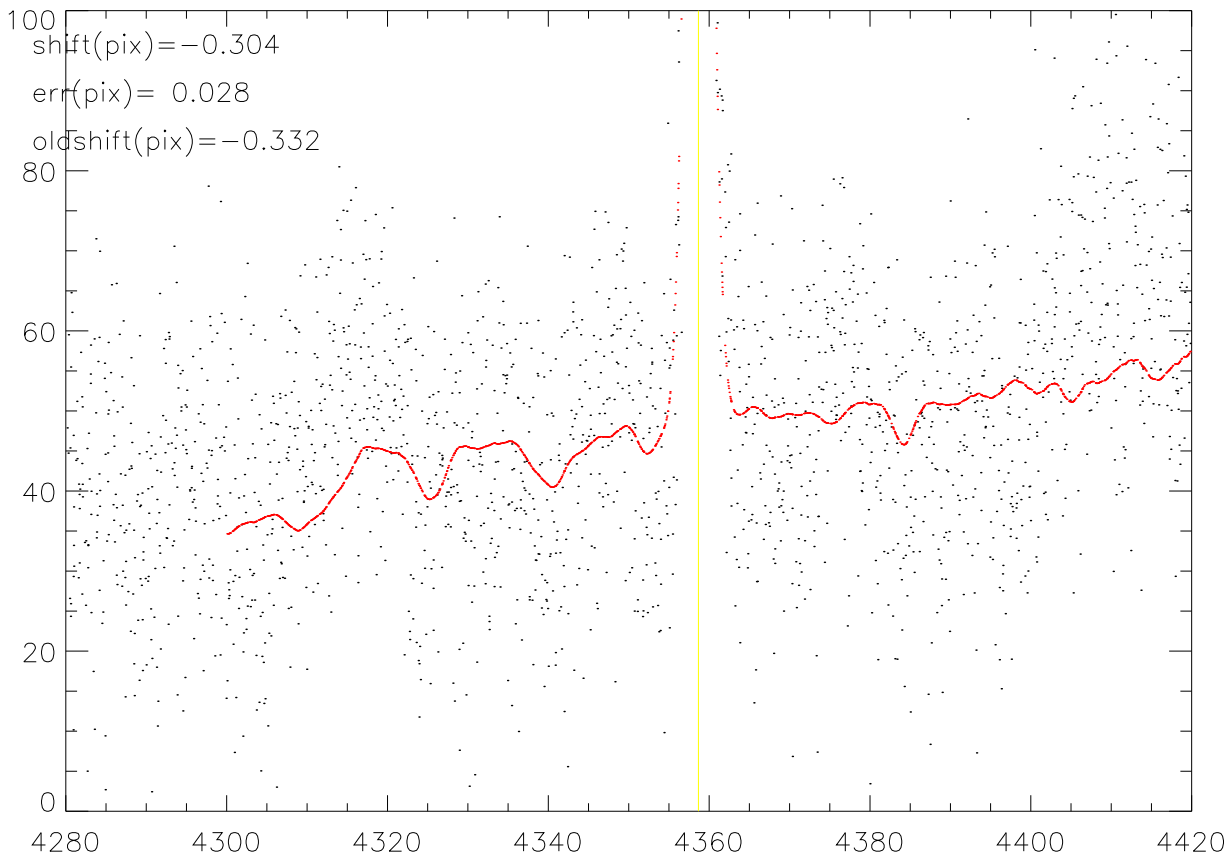

PLATE=0872 MJD=52339 Scattered Light on sdR-b2-00013701.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.2
9.6

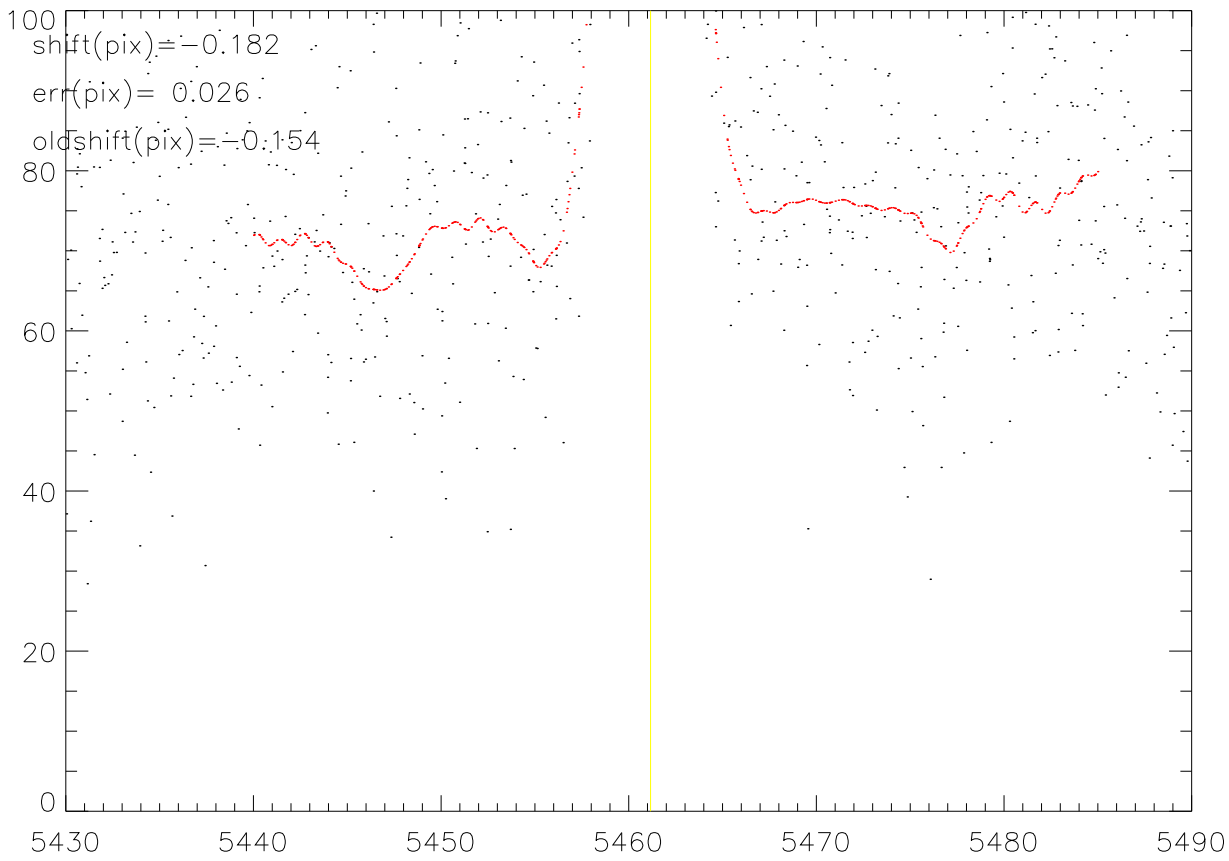

PLATE=0872 MJD=52339 Scattered Light on sdR-b2-00013701.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.699
Max value = 9.849
Mon Feb 11 19:27:59 2008

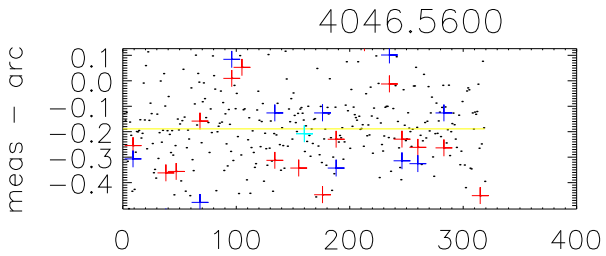

PLATE=0872 MJD=52339 Extraction chi^2 for sdR-b2-00013701.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

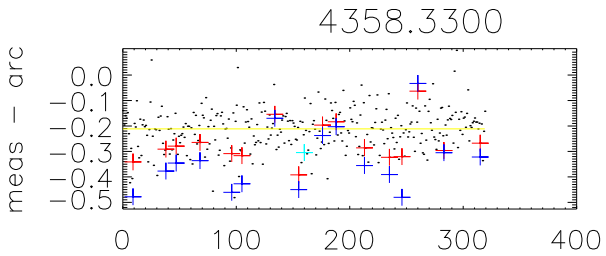

4046.5600
off: −0.21
sig: 0.070
4358.3300
off: −0.33
sig: 0.025
5460.9400
off: −0.15
sig: 0.022
5577.3390
off: −0.12
sig: 0.002
5889.9500
off: −0.08
sig: 0.019
5895.9240
off: −0.07
sig: 0.022

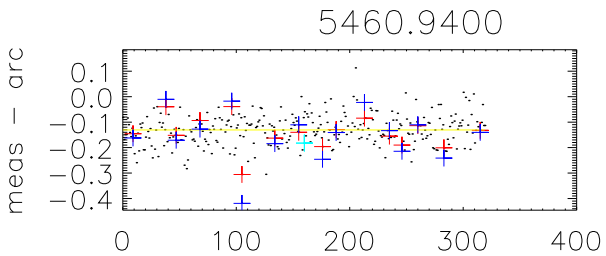

shift(pix)=−0.208
err(pix)= 0.075
oldshift(pix)=−0.210
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

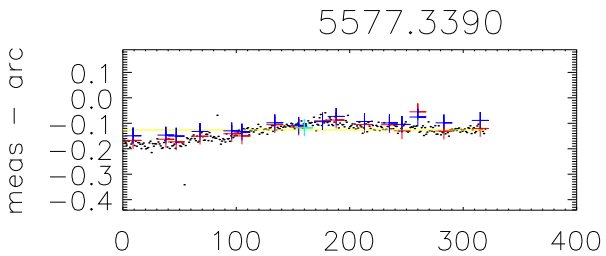

shift(pix)=−0.304
err(pix)= 0.028
oldshift(pix)=−0.332
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

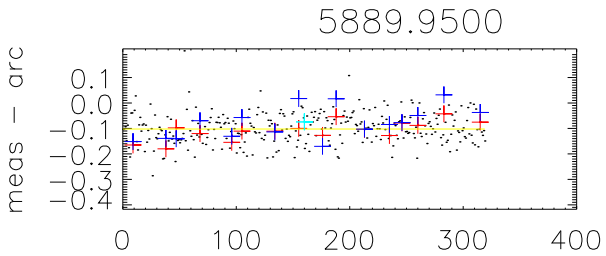

shift(pix)=−0.182
err(pix)= 0.026
oldshift(pix)=−0.154
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

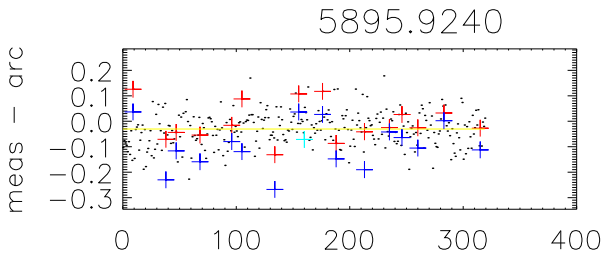

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

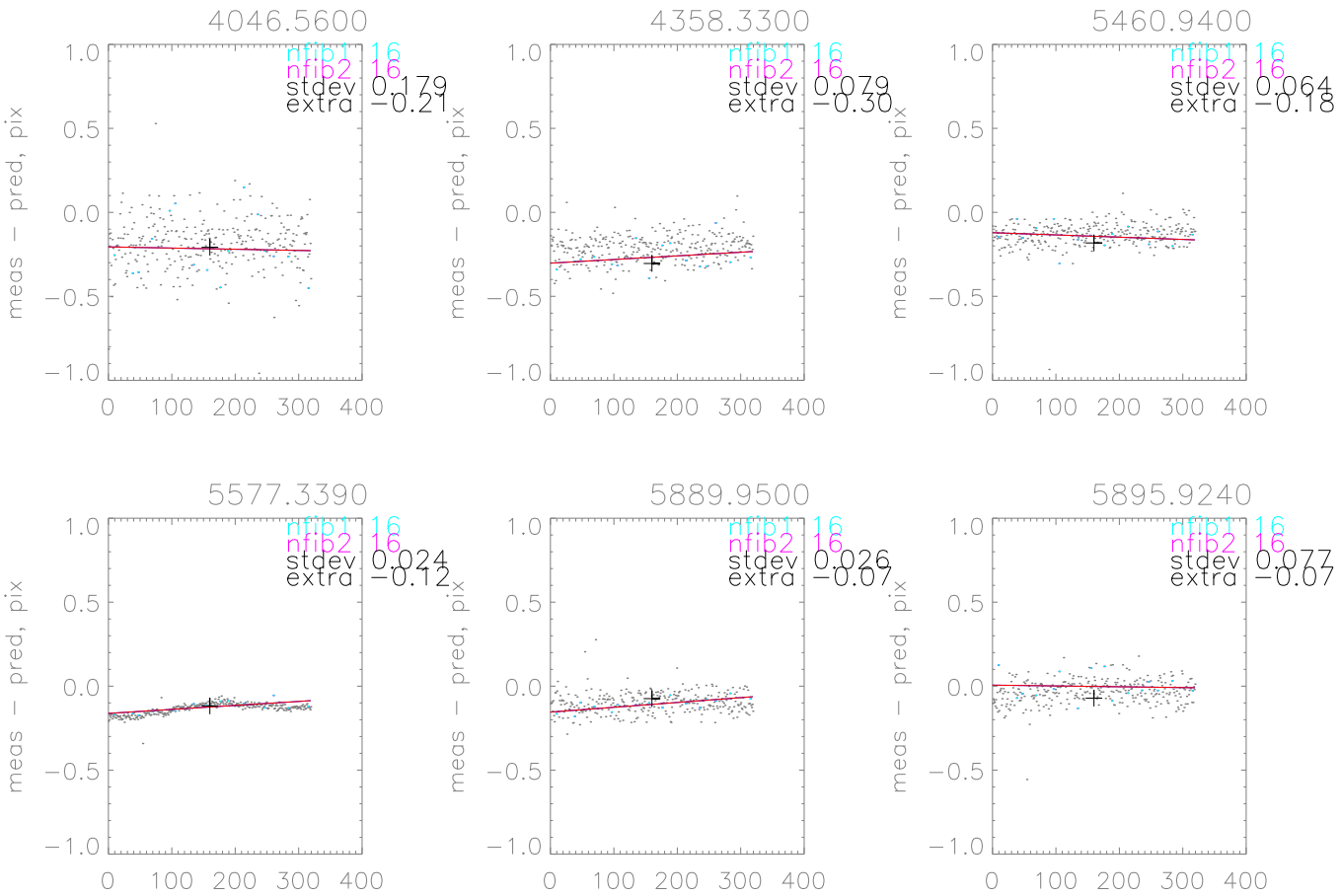

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

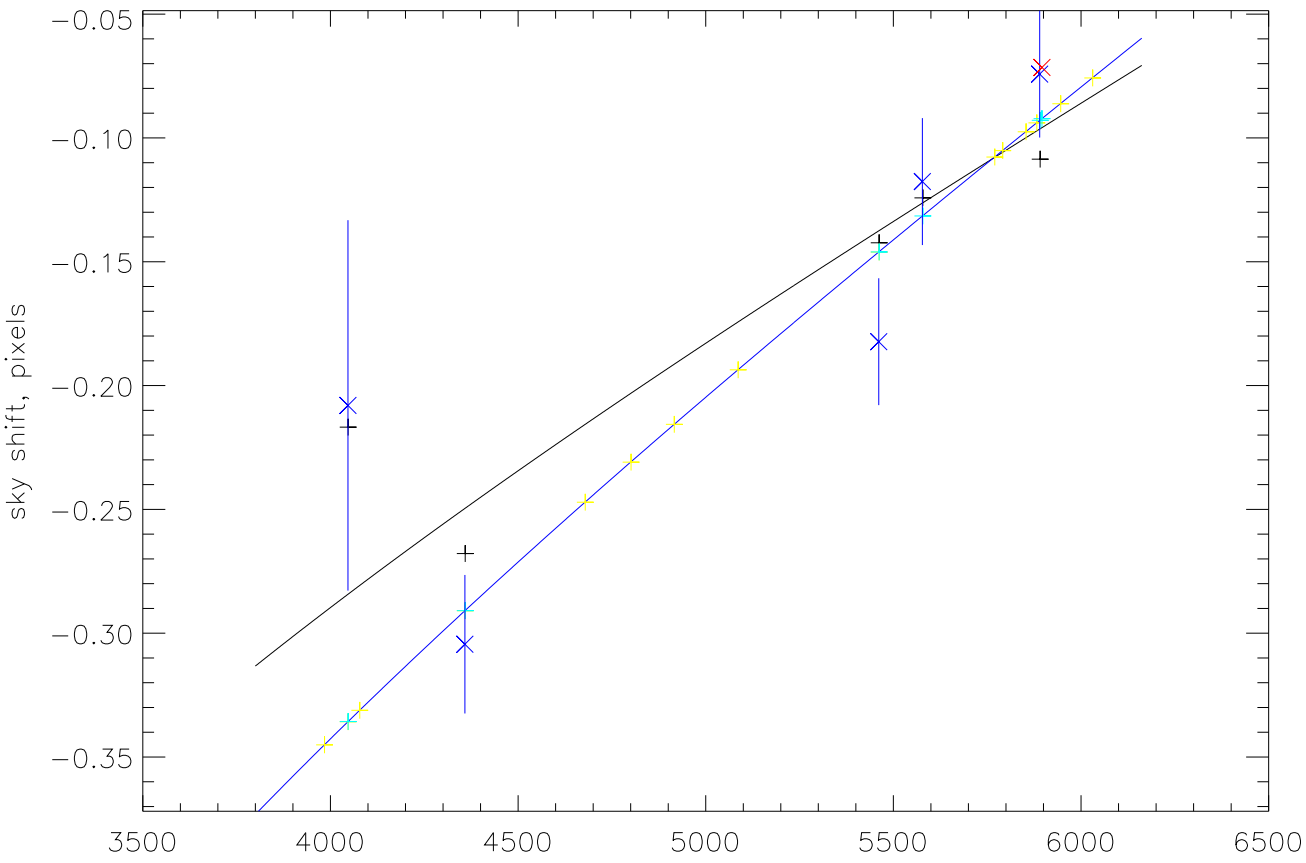

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

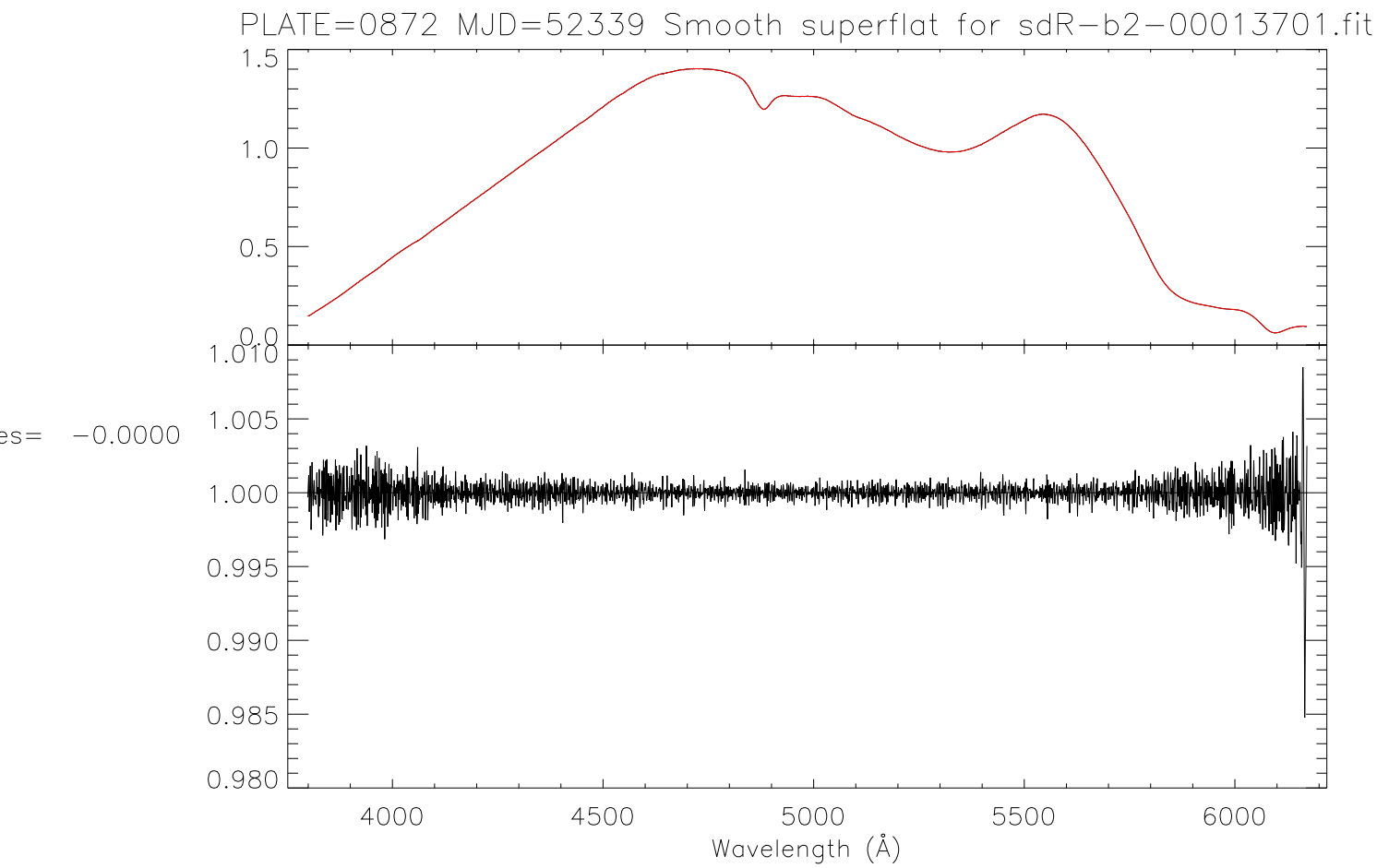

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

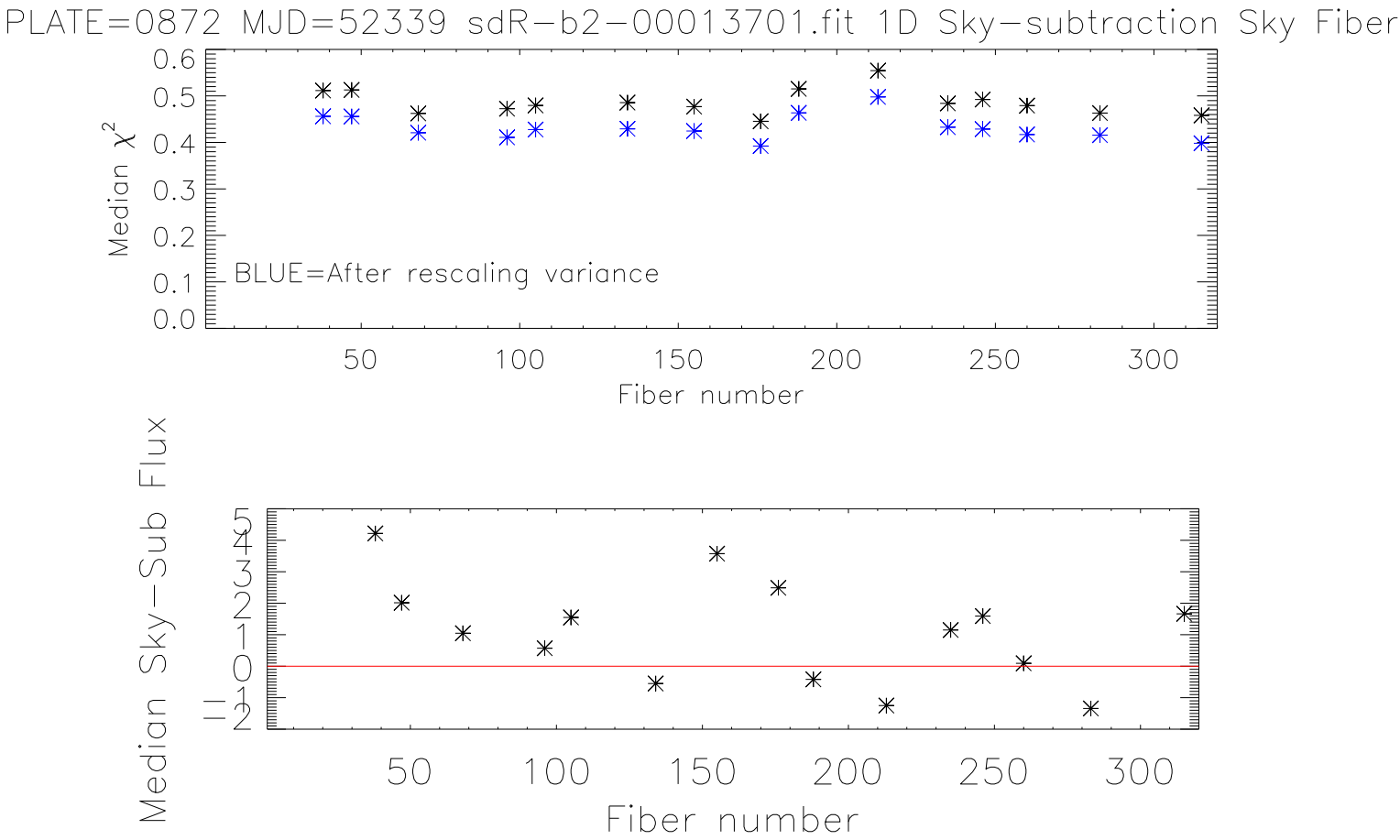

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

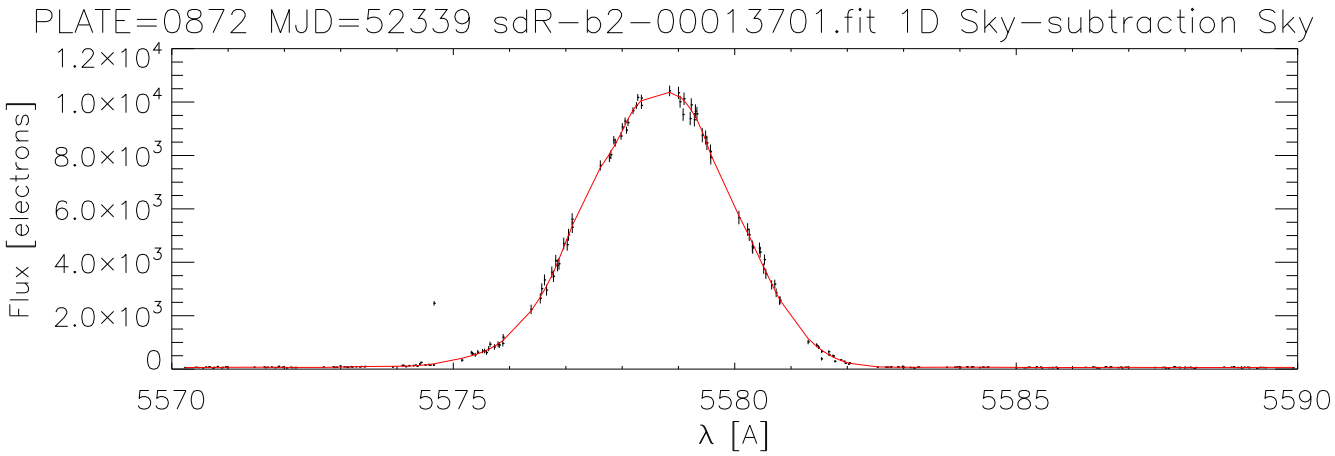

4046.5600
nfib1 16
nfib2 16
stdev 0.179
extra −0.21
4358.3300
nfib1 16
nfib2 16
stdev 0.079
extra −0.30
5460.9400
nfib1 16
nfib2 16
stdev 0.064
extra −0.18
5577.3390
nfib1 16
nfib2 16
stdev 0.024
extra −0.12
5889.9500
nfib1 16
nfib2 16
stdev 0.026
extra −0.07
5895.9240
nfib1 16
nfib2 16
stdev 0.077
extra −0.07
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

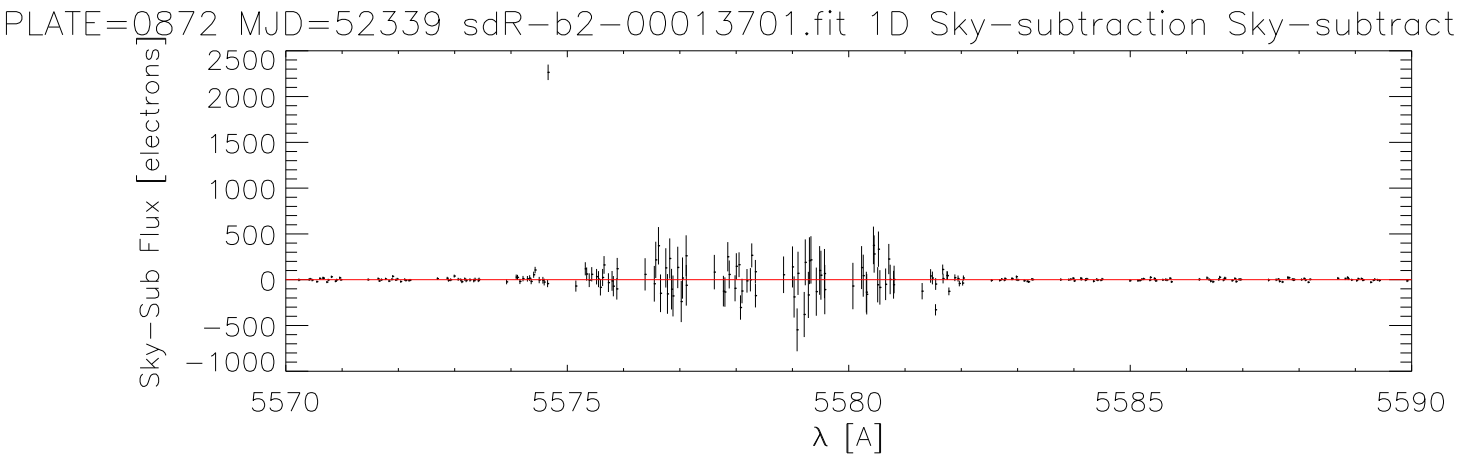

−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

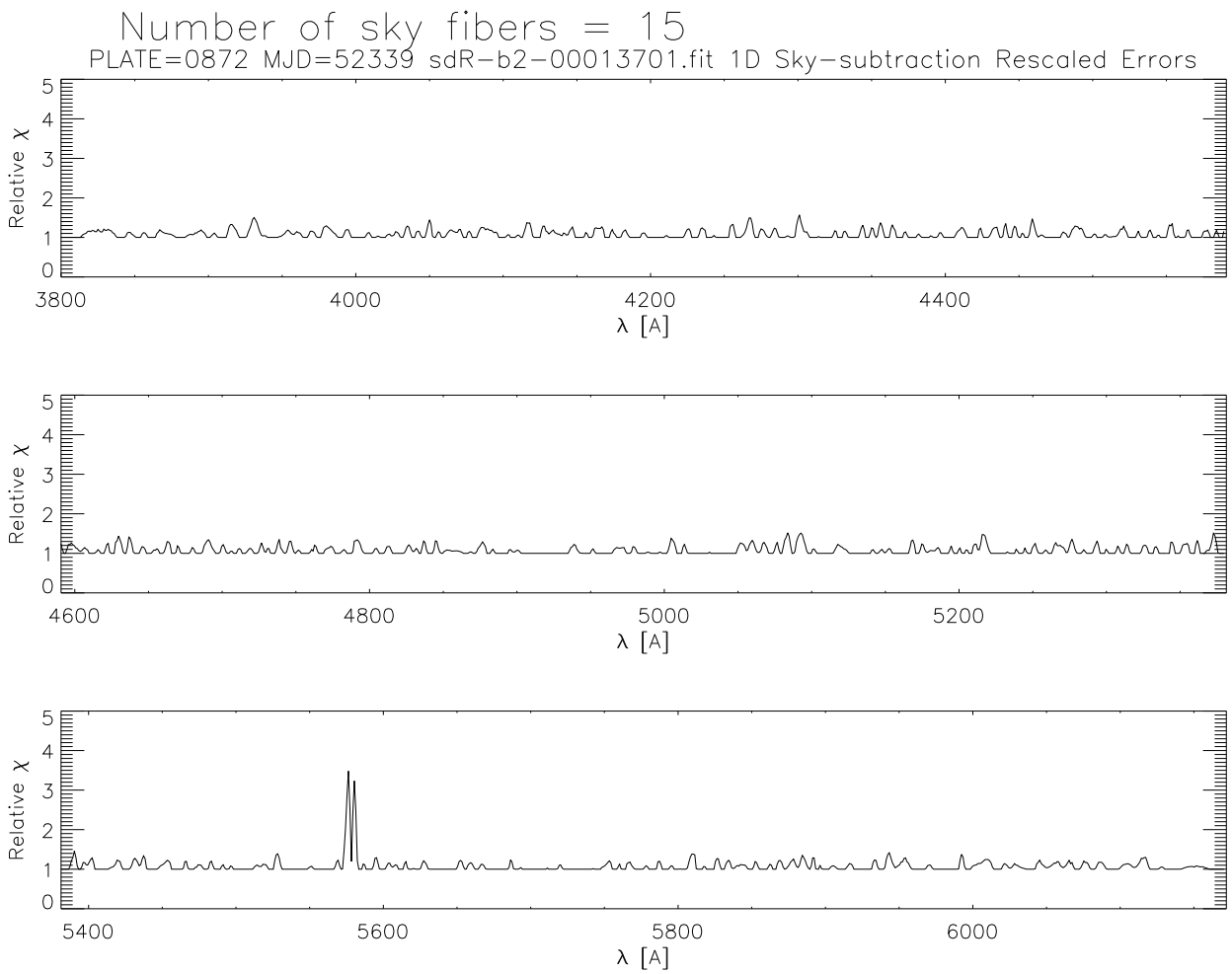

PLATE=0872 MJD=52339 Smooth superflat for sdR-b2-00013701.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
4000
4500
5000
5500
6000
Wavelength (Å)

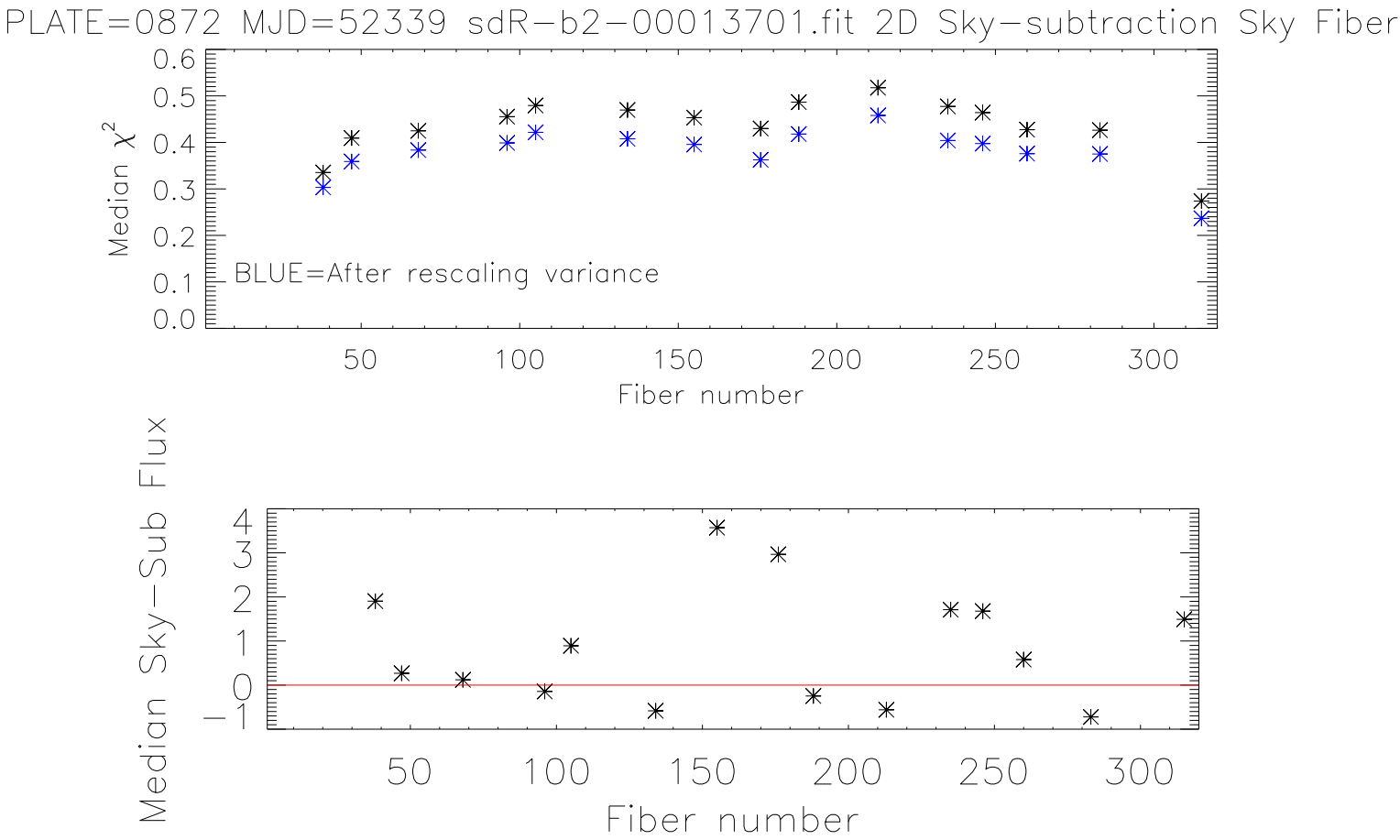
es= −0.0000

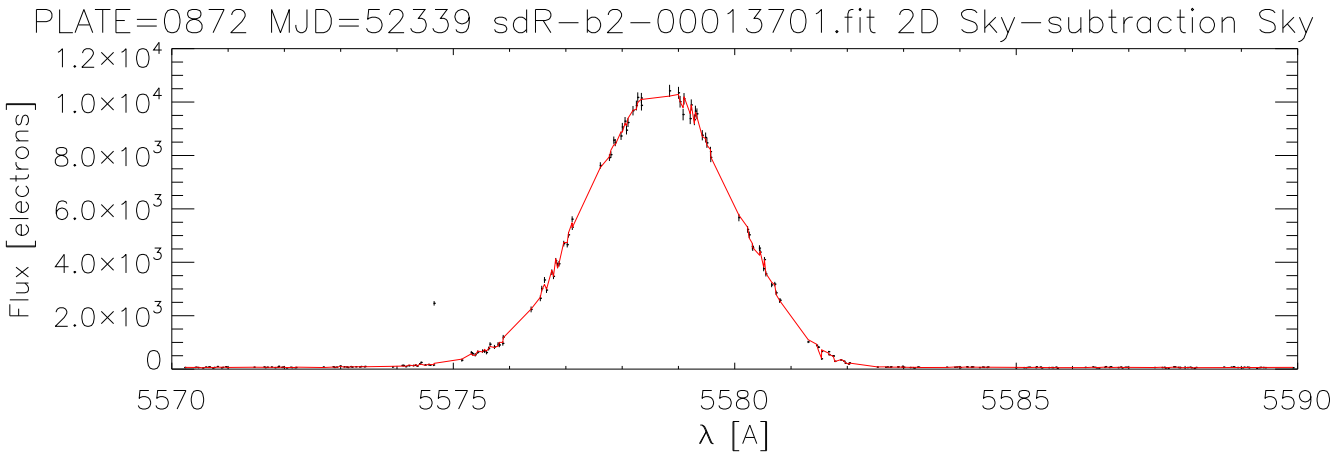

PLATE=0872 MJD=52339 sdR-b2-00013701.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
5
50
100
150
200
250
300
Fiber number

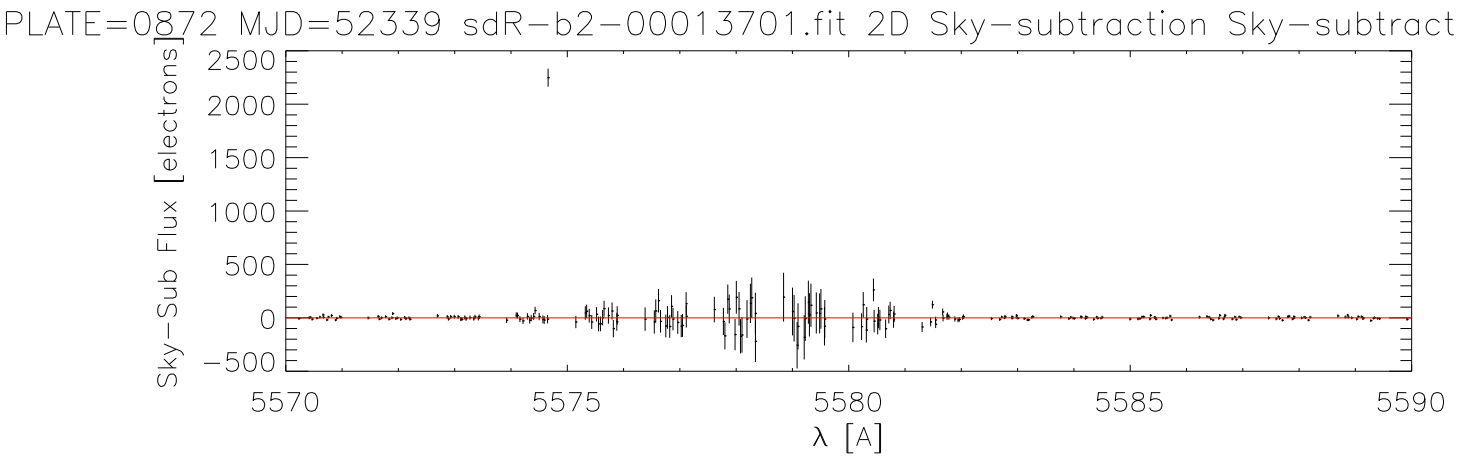

PLATE=0872 MJD=52339 sdR-b2-00013701.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

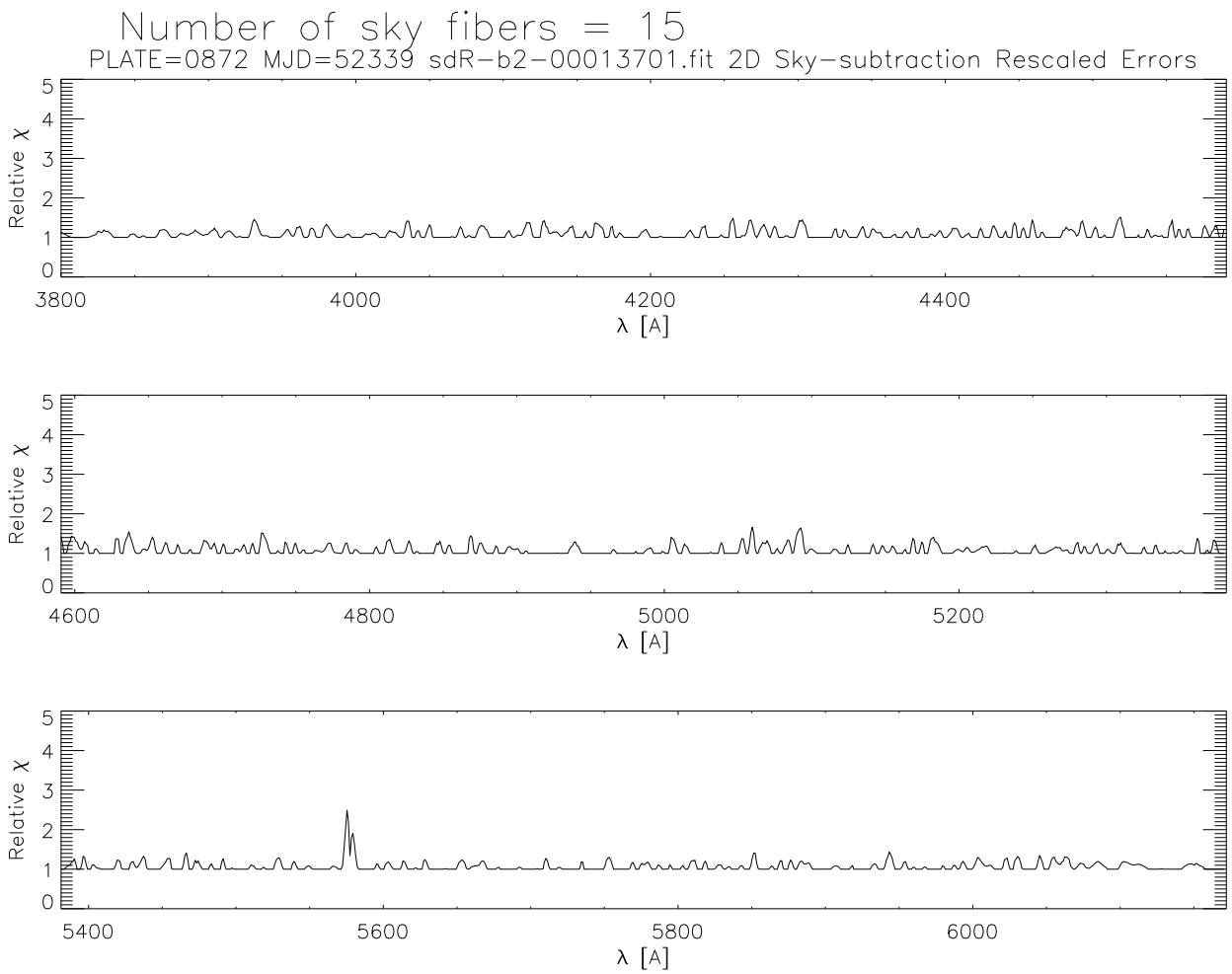

PLATE=0872 MJD=52339 sdR-b2-00013701.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

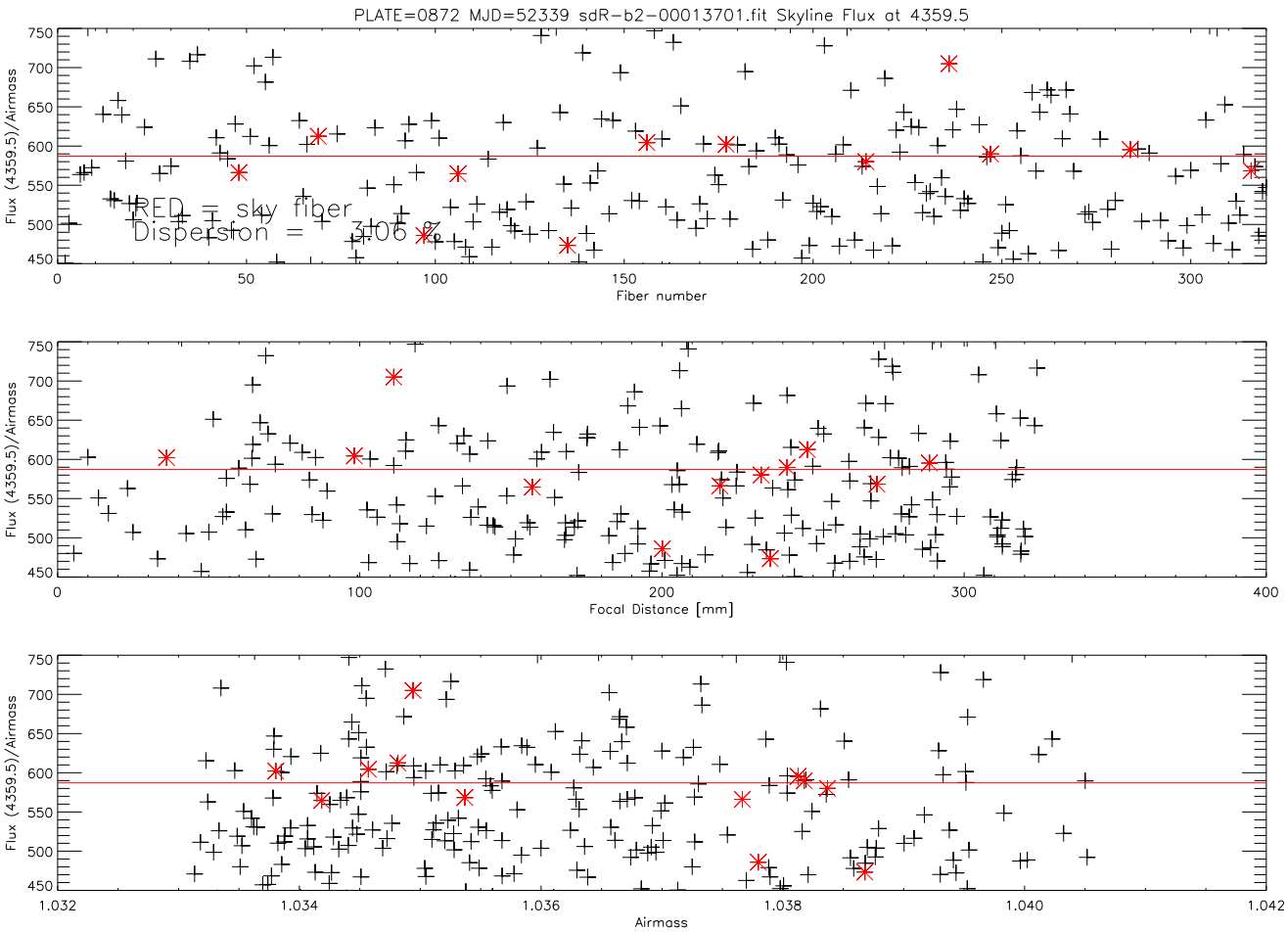

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b2-00013701.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

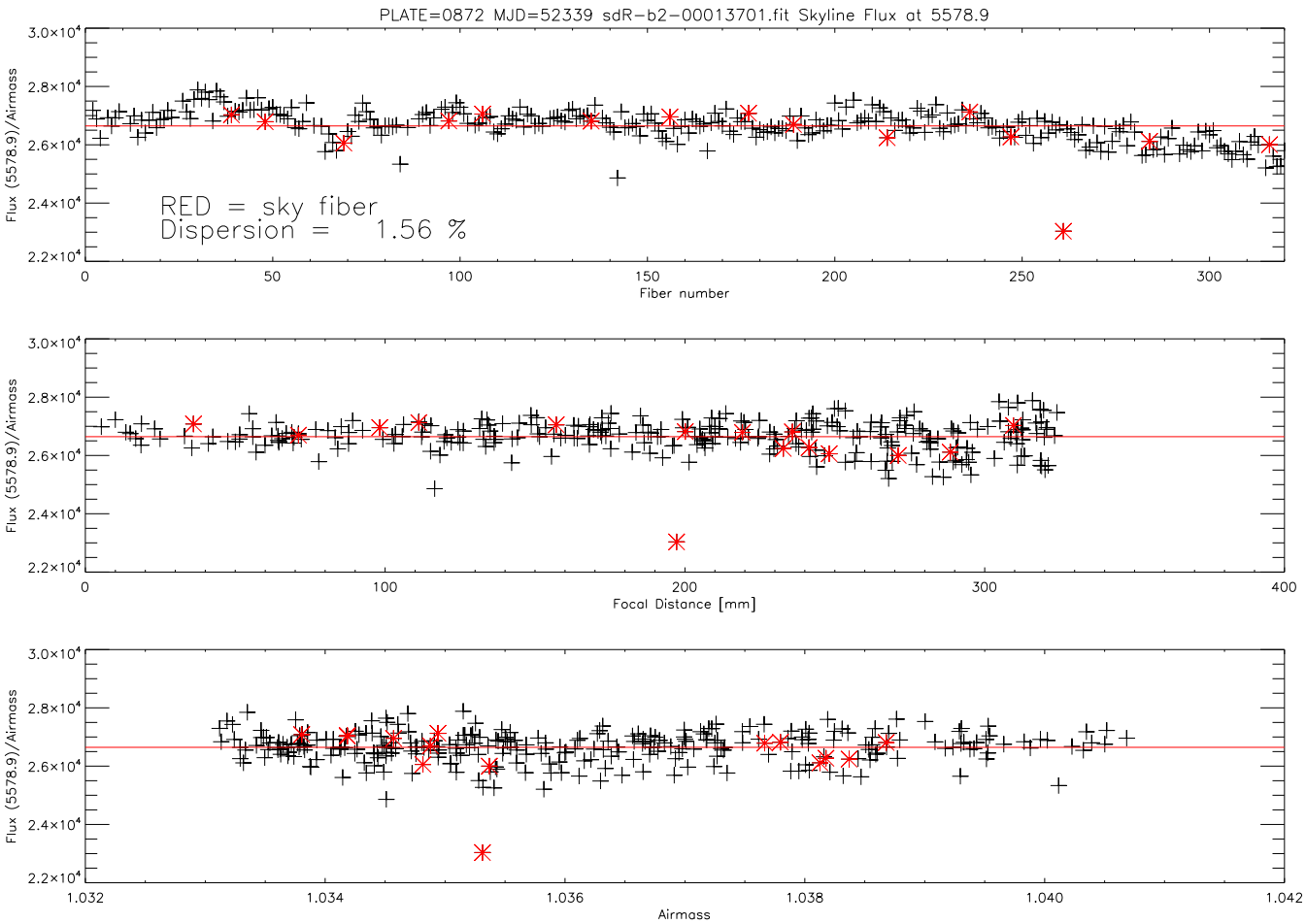

PLATE=0872 MJD=52339 sdR-b2-00013701.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

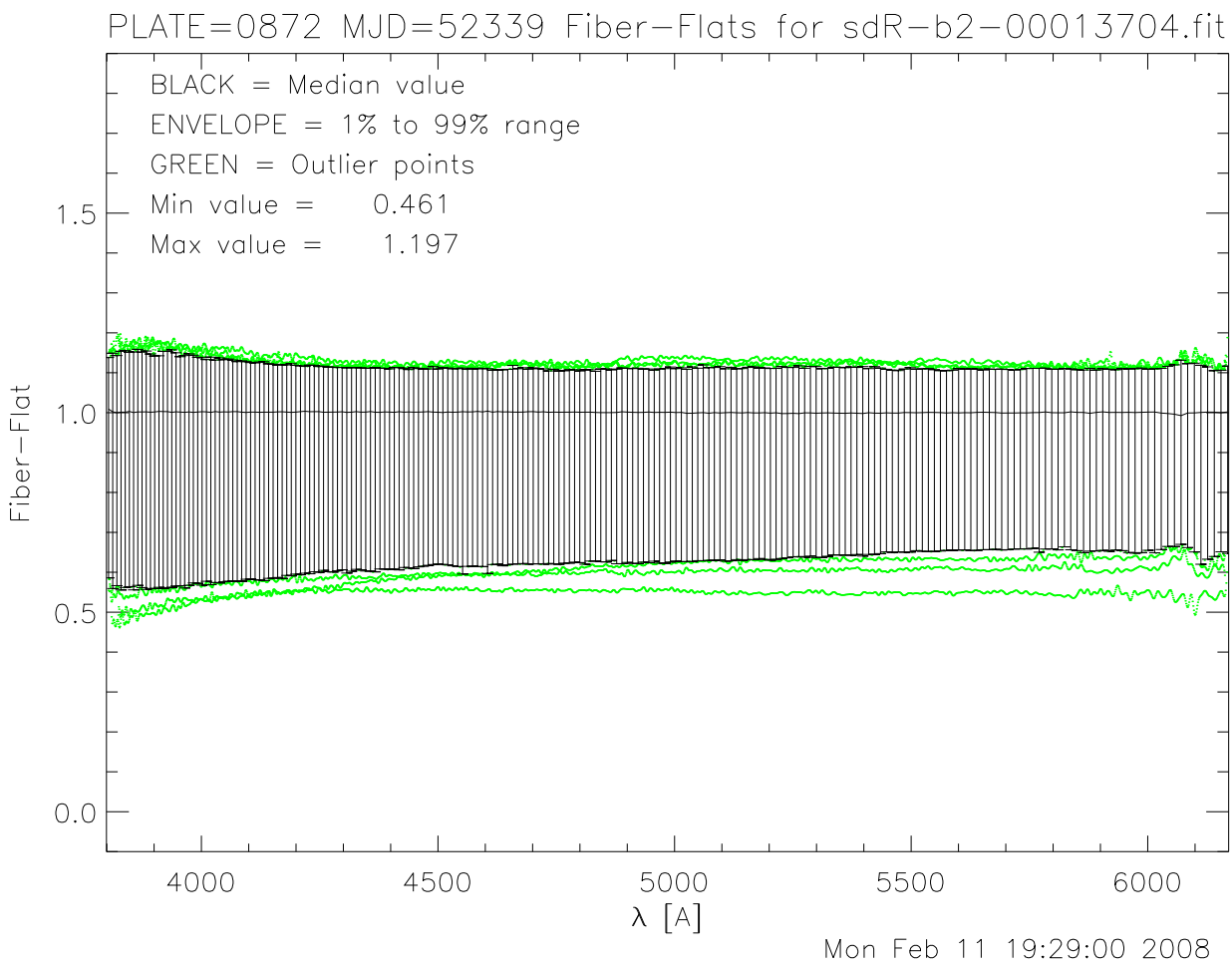

PLATE=0872 MJD=52339 sdR-b2-00013701.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

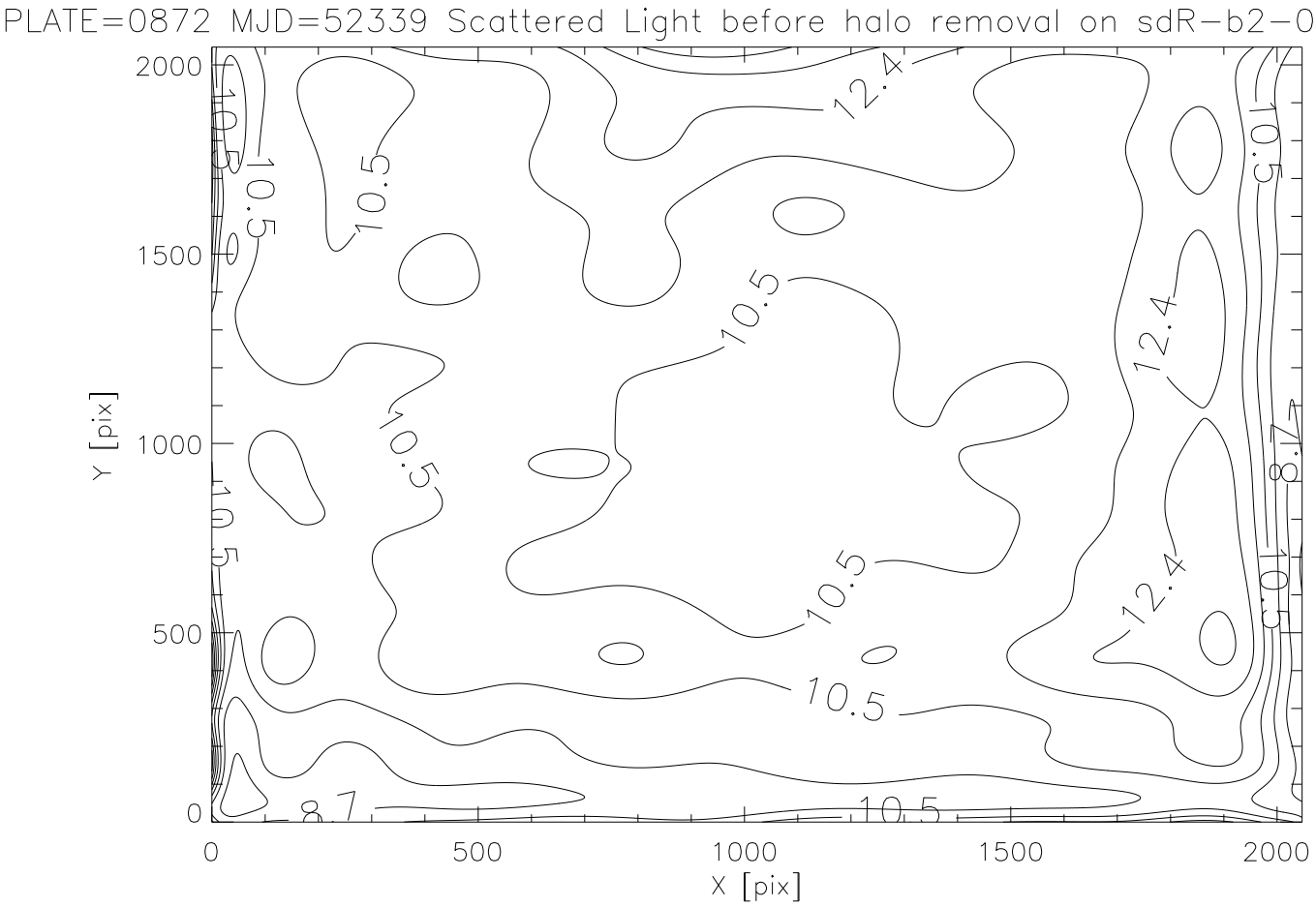

PLATE=0872 MJD=52339 sdR-b2-00013701.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
−500
5570
5575
5580
5585
5590
λ [A]

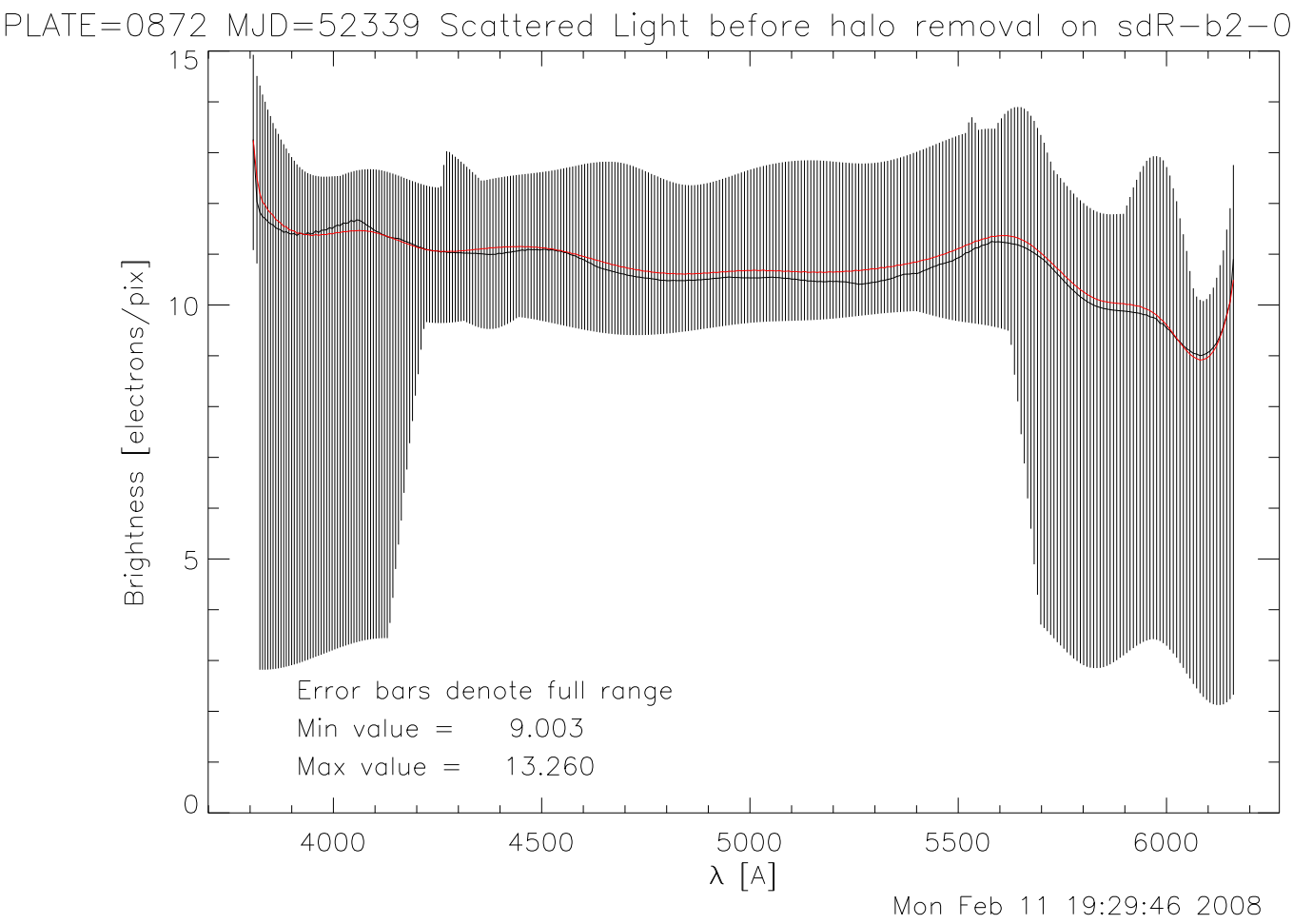

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b2-00013701.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

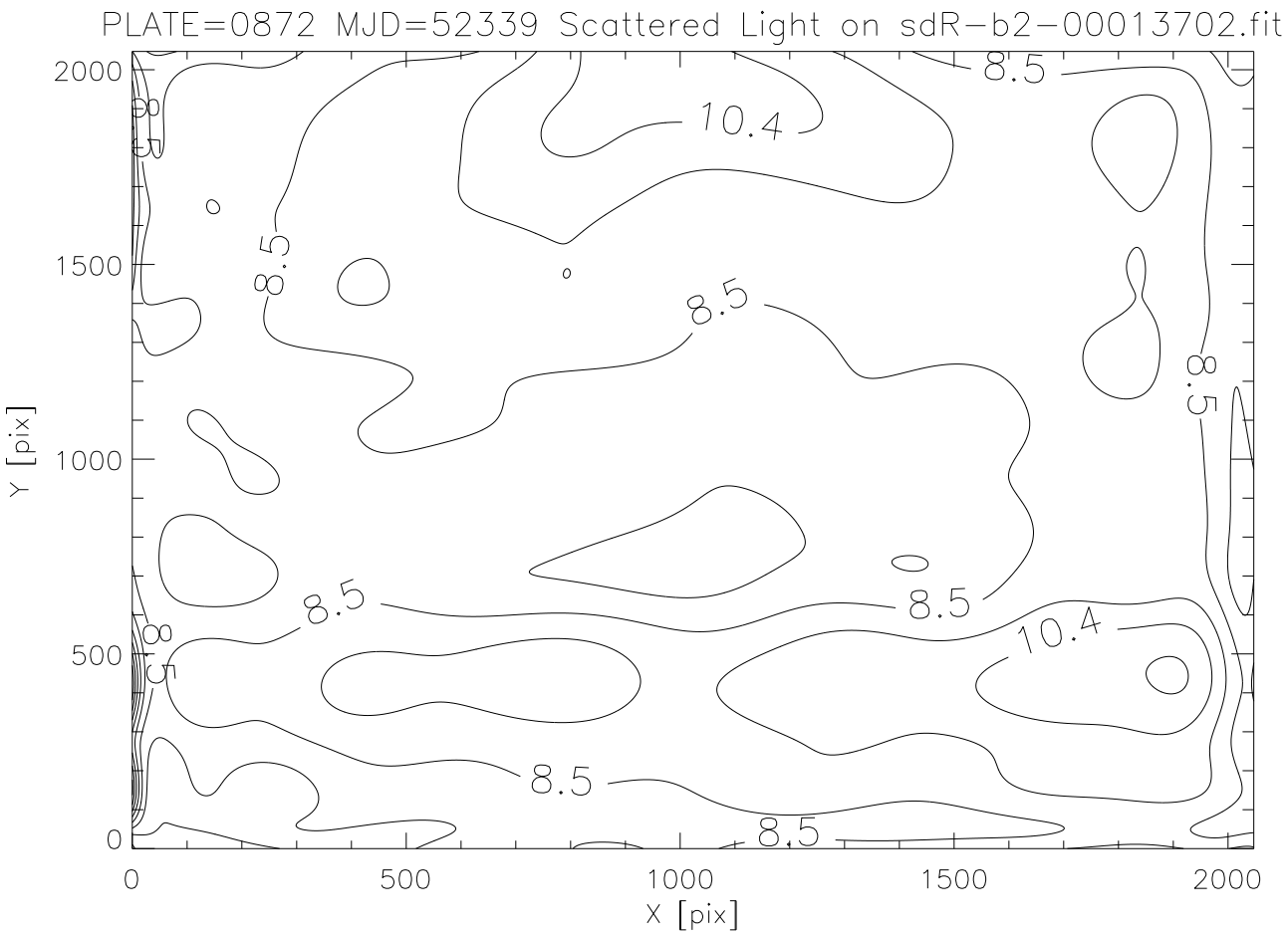

PLATE=0872 MJD=52339 sdR-b2-00013701.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.06 Å
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

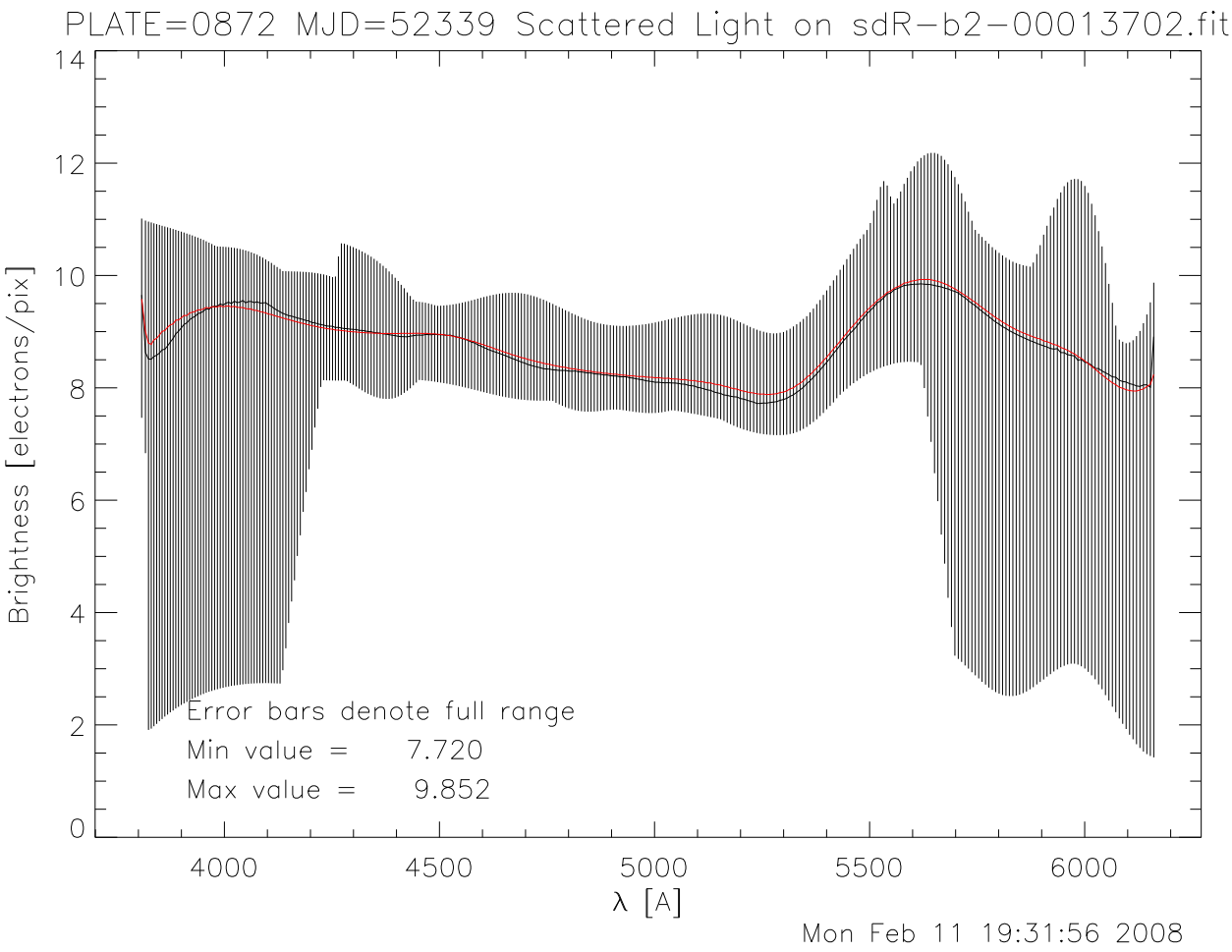

PLATE=0872 MJD=52339 sdR-b2-00013701.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.56 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

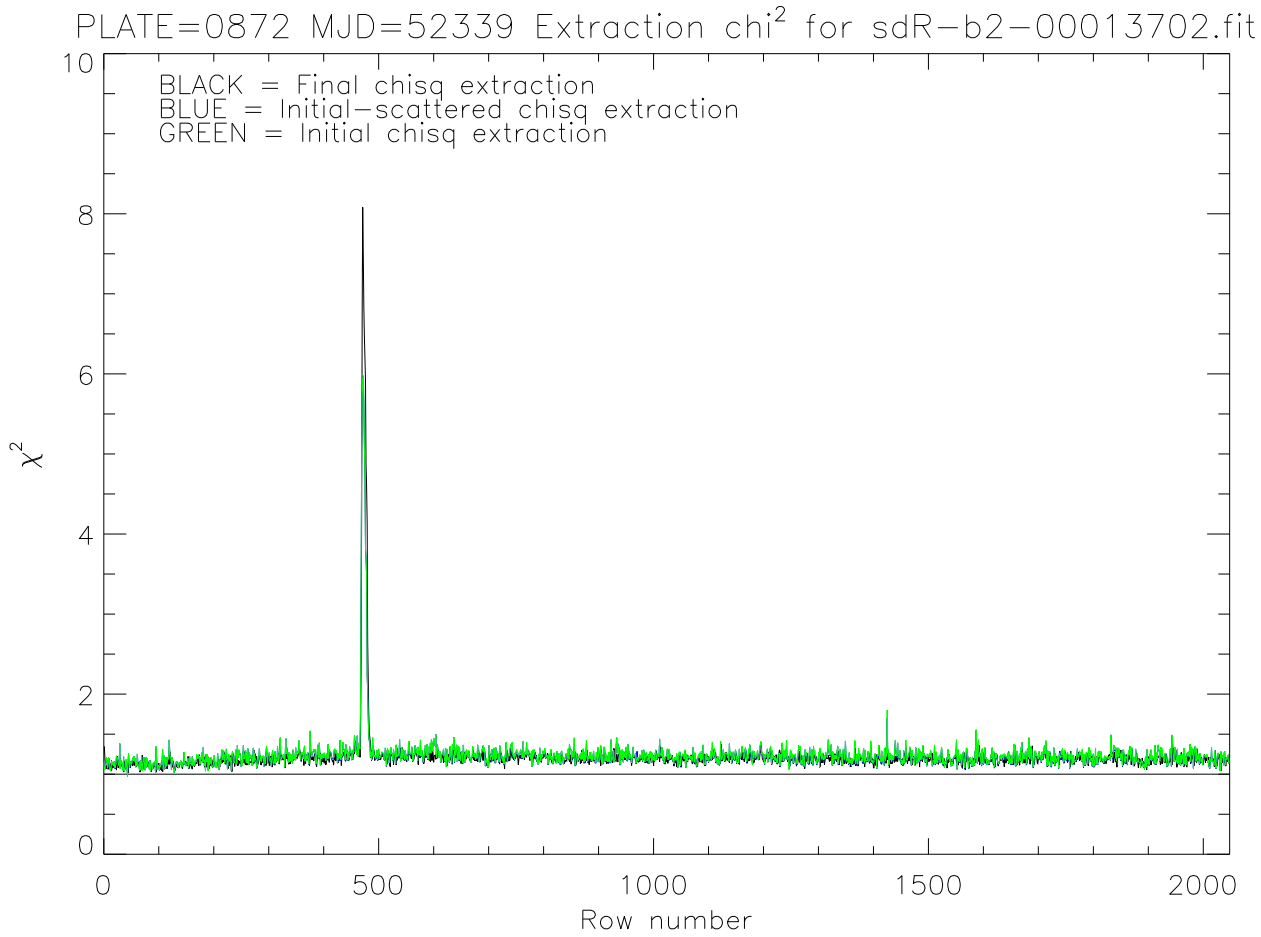

PLATE=0872 MJD=52339 Fiber-Flats for sdR-b2-00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.461
Max value = 1.197
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:29:00 2008

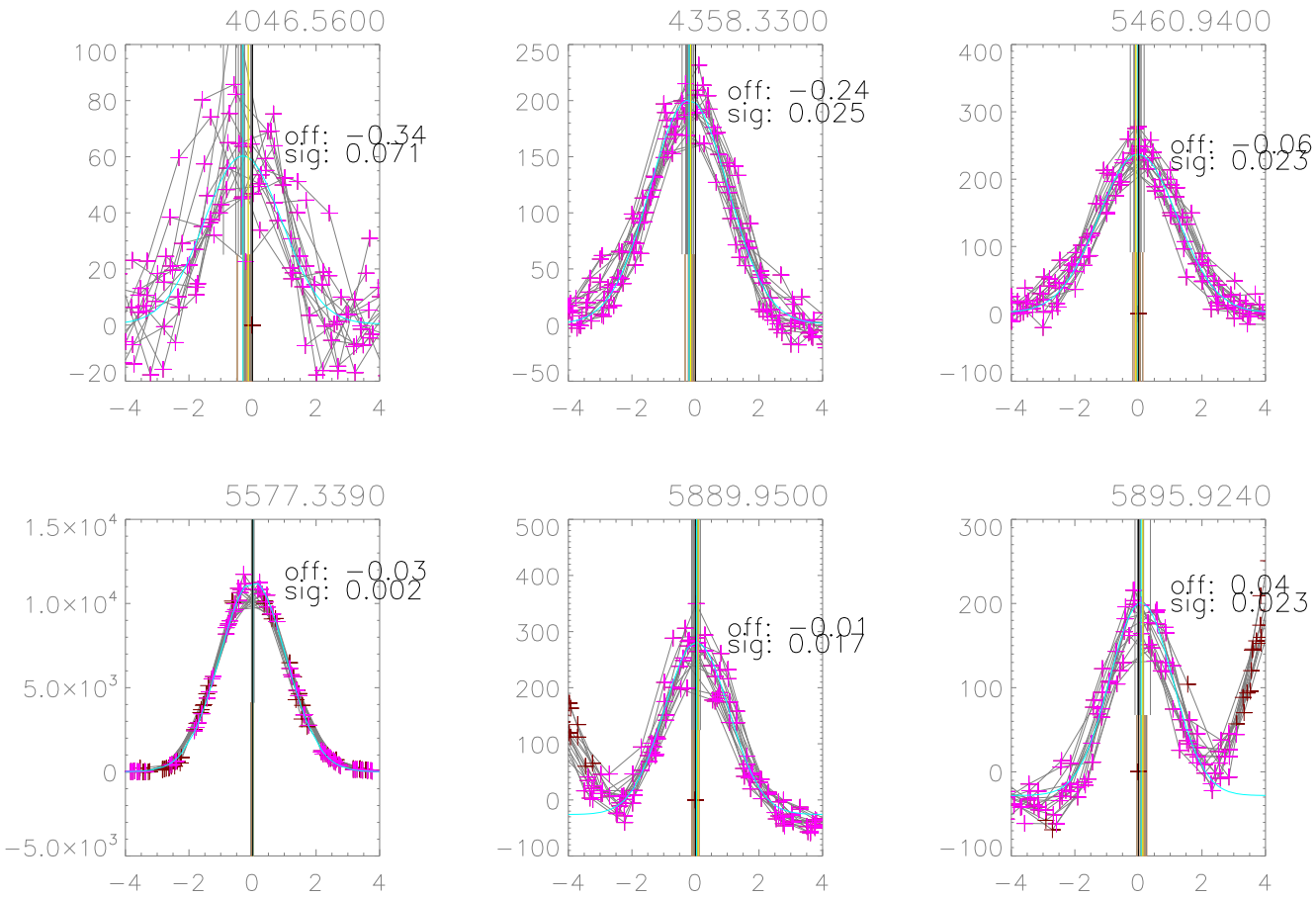

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b2-00013702.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
12.4
10.5
8.7

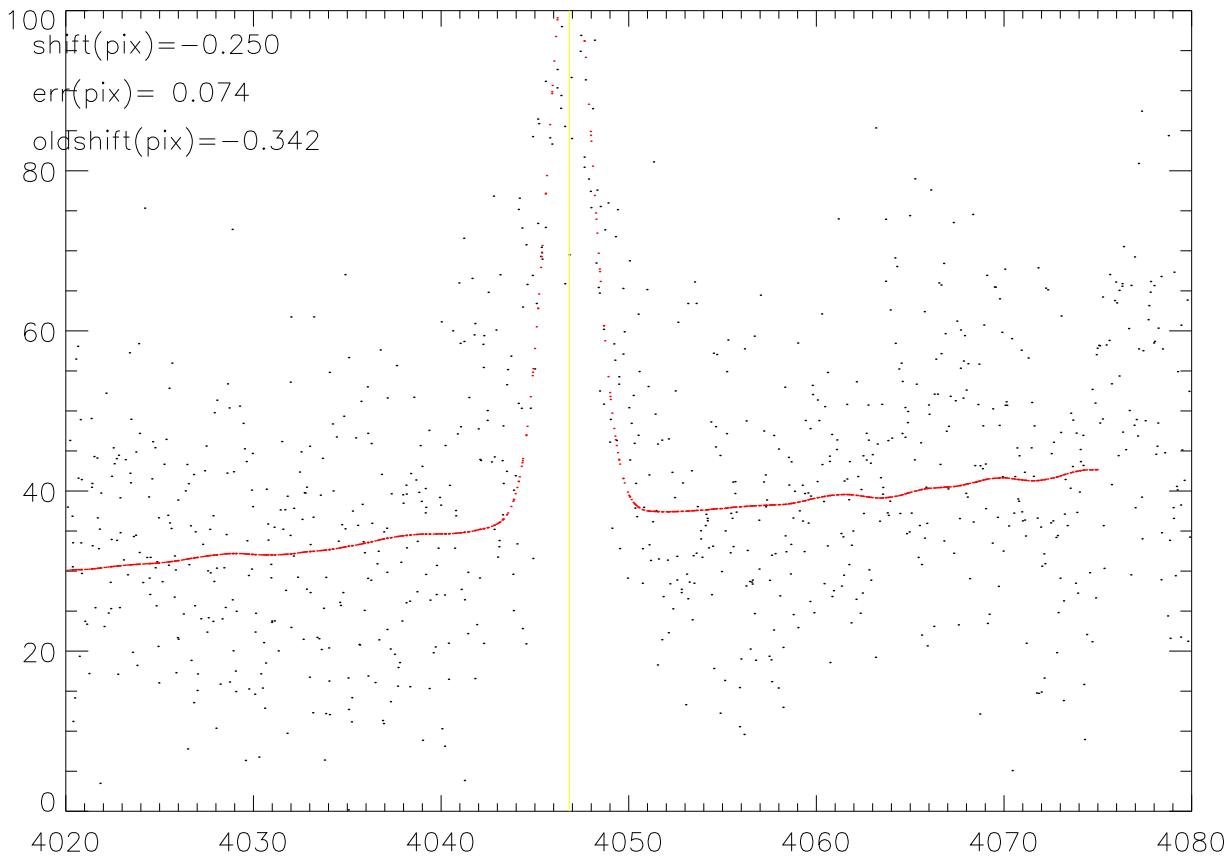

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b2-00013702.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 9.003
Max value = 13.260
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:29:46 2008

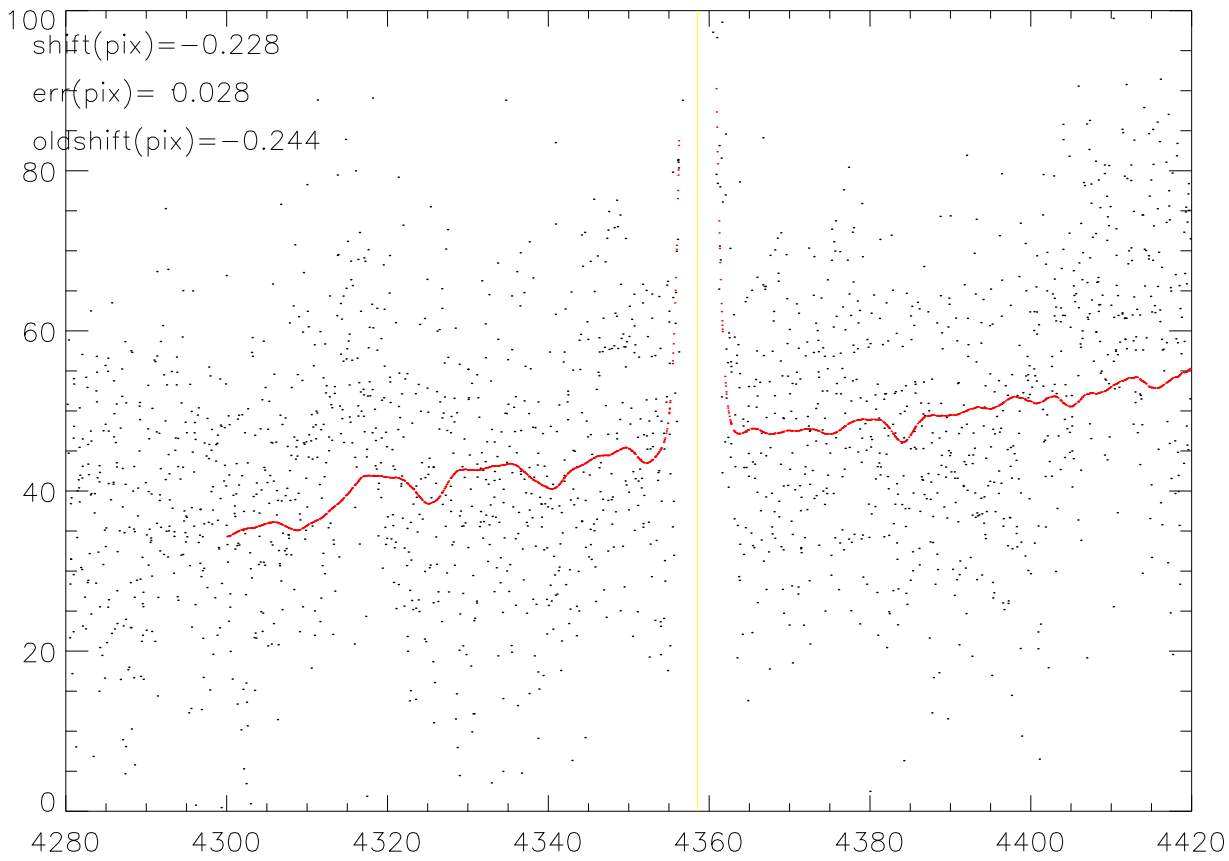

PLATE=0872 MJD=52339 Scattered Light on sdR-b2-00013702.fit
8.5
10.4
8.5
8.5
8.5
8.5
10.4
8.5
8.5
Y [pix]
X [pix]
0
500
1000
1500
2000

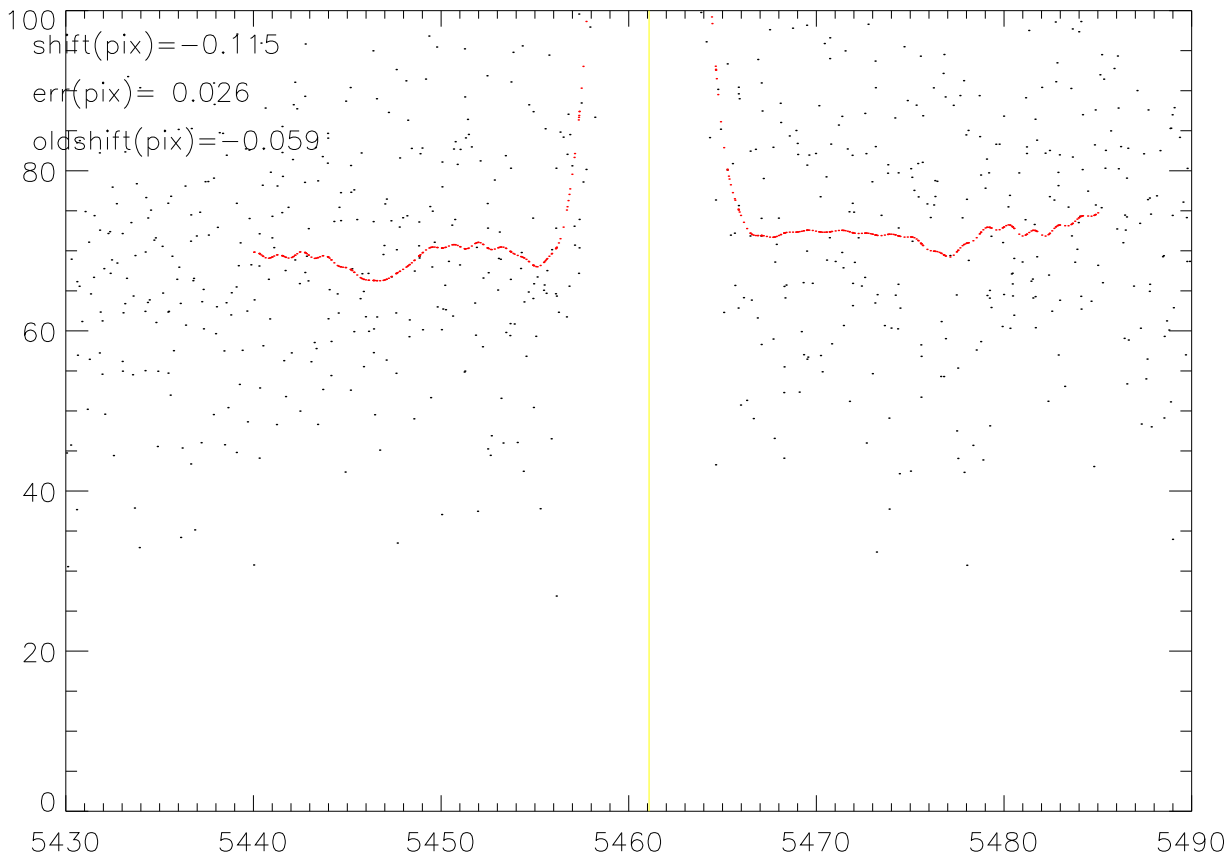

PLATE=0872 MJD=52339 Scattered Light on sdR-b2-00013702.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.720
Max value = 9.852
Mon Feb 11 19:31:56 2008

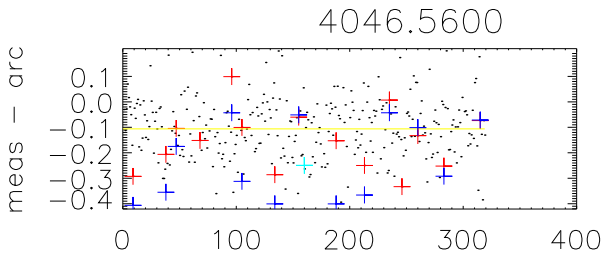

PLATE=0872 MJD=52339 Extraction chi^2 for sdR-b2-00013702.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
0
500
1000
1500
2000
Row number

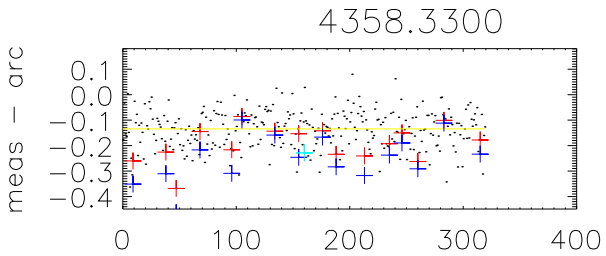

4046.5600
off: −0.34
sig: 0.071
4358.3300
off: −0.24
sig: 0.025
5460.9400
off: −0.06
sig: 0.023
5577.3390
off: −0.03
sig: 0.002
5889.9500
off: −0.01
sig: 0.017
5895.9240
off: 0.04
sig: 0.023

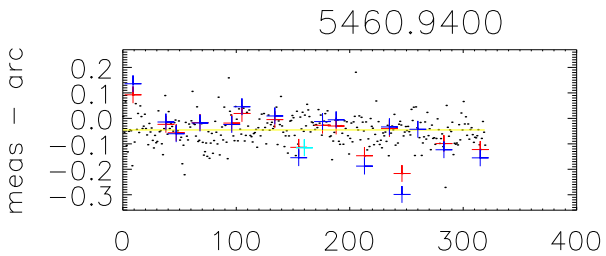

shift(pix)=−0.250
err(pix)= 0.074
oldshift(pix)=−0.342
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

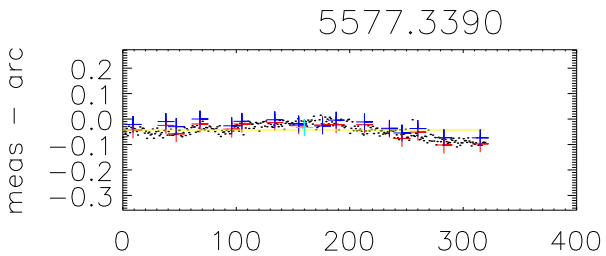

shift(pix)=−0.228
err(pix)= 0.028
oldshift(pix)=−0.244
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

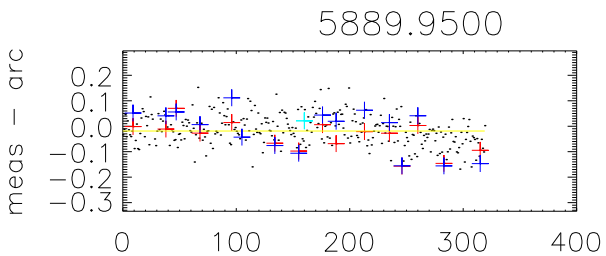

shift(pix)=−0.115
err(pix)= 0.026
oldshift(pix)=−0.059
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

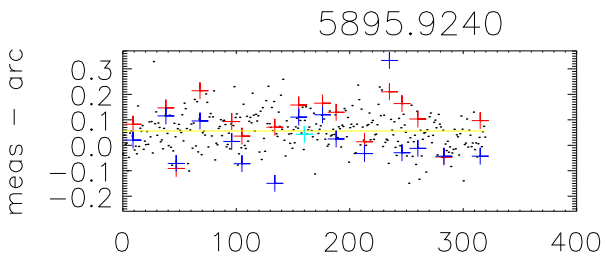

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

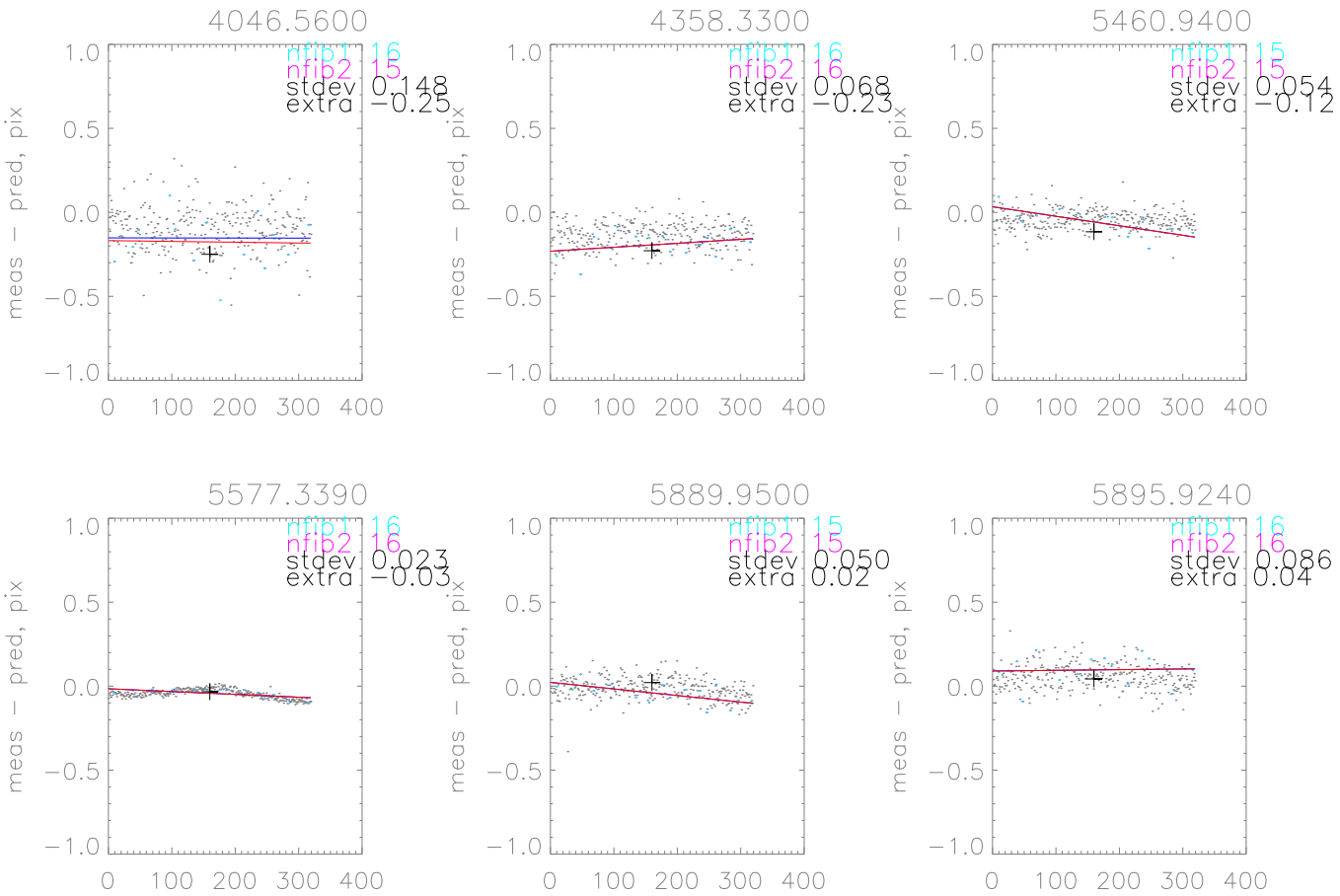

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

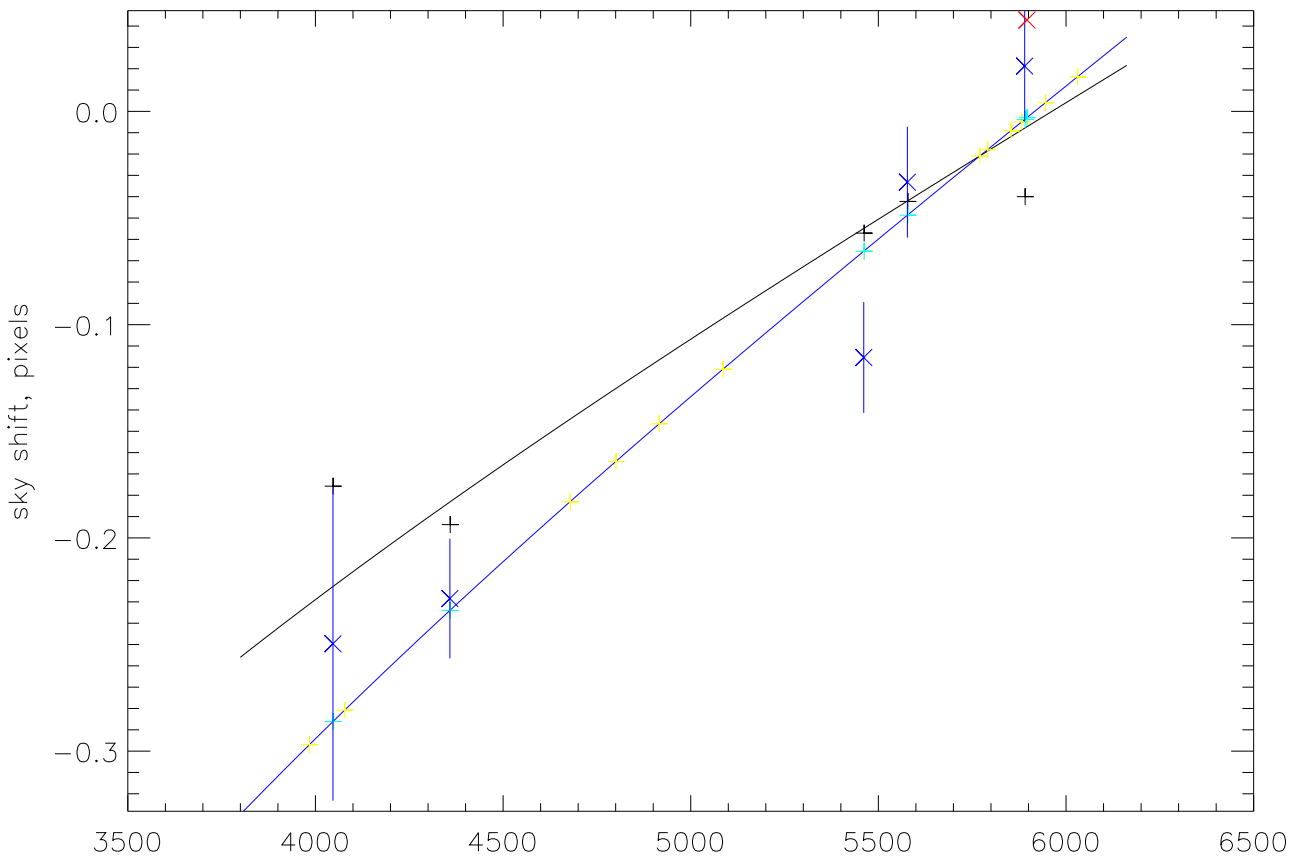

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

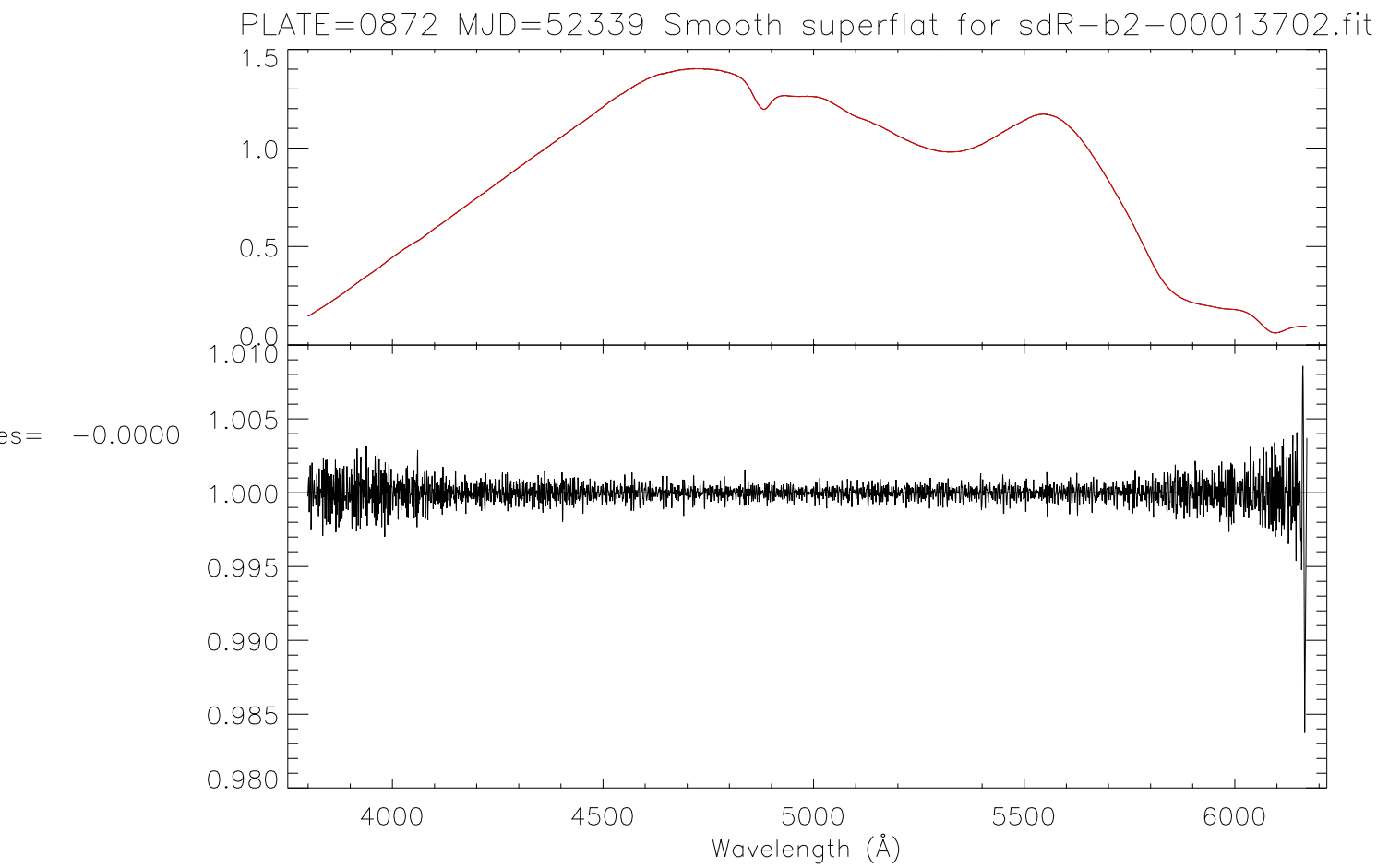

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

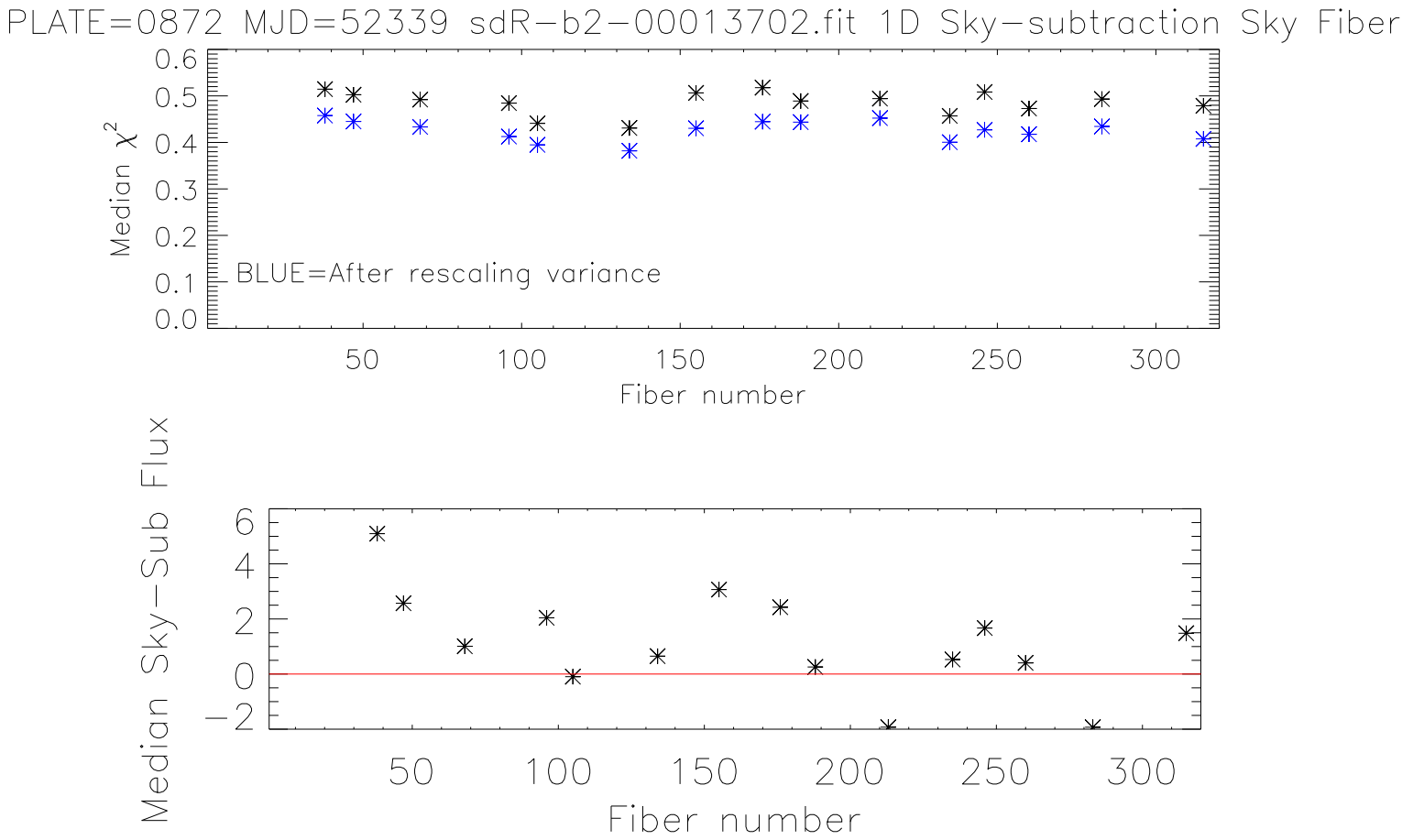

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

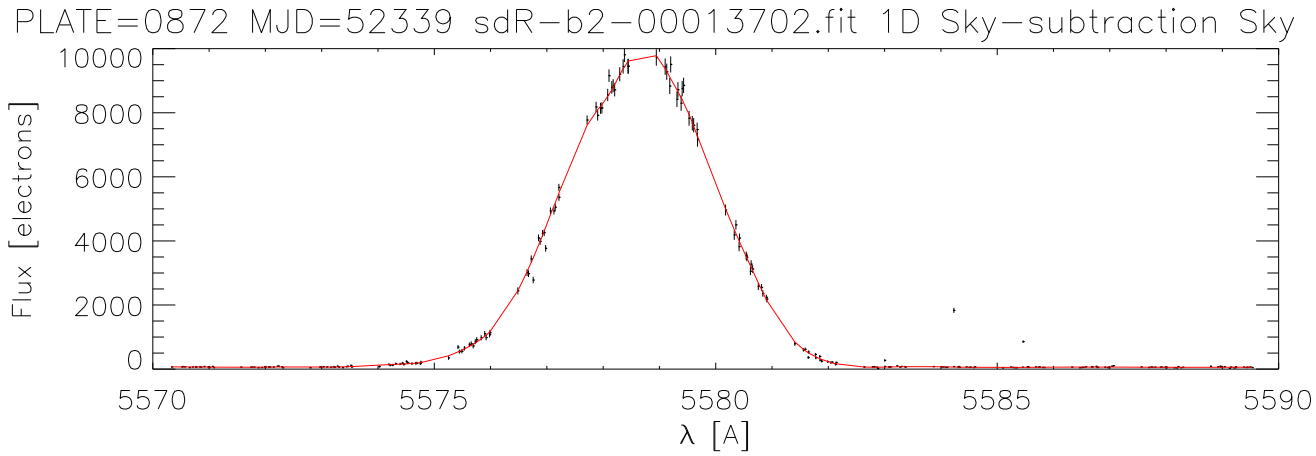

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

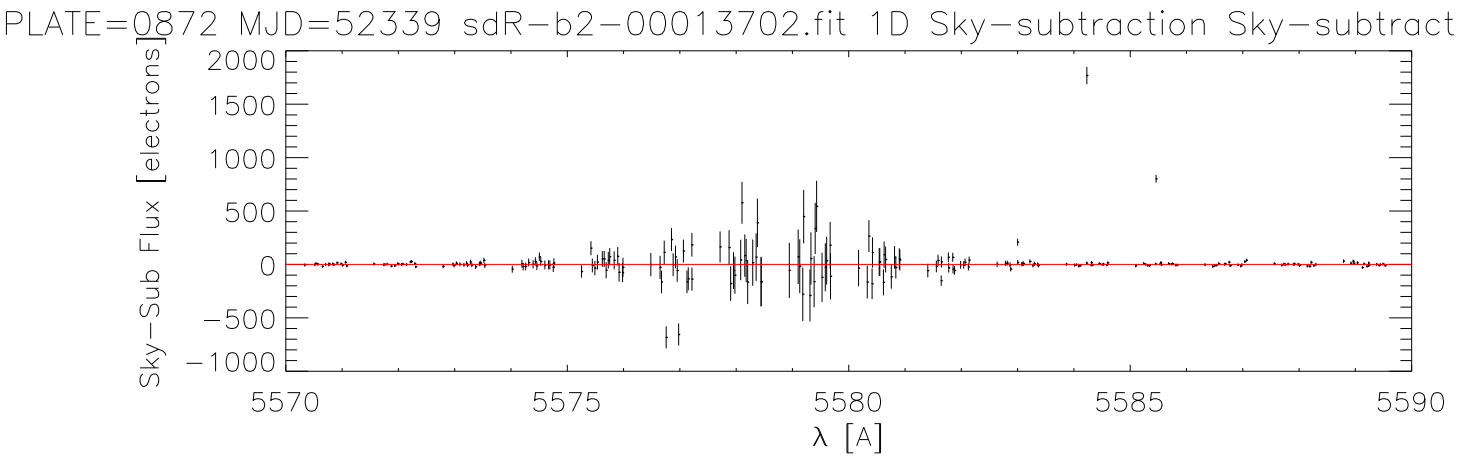

4046.5600
nfib1 16
nfib2 15
stdev 0.148
extra −0.25
4358.3300
nfib1 16
nfib2 16
stdev 0.068
extra −0.23
5460.9400
nfib1 15
nfib2 15
stdev 0.054
extra −0.12
5577.3390
nfib1 16
nfib2 16
stdev 0.023
extra −0.03
5889.9500
nfib1 15
nfib2 15
stdev 0.050
extra 0.02
5895.9240
nfib1 16
nfib2 16
stdev 0.086
extra 0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

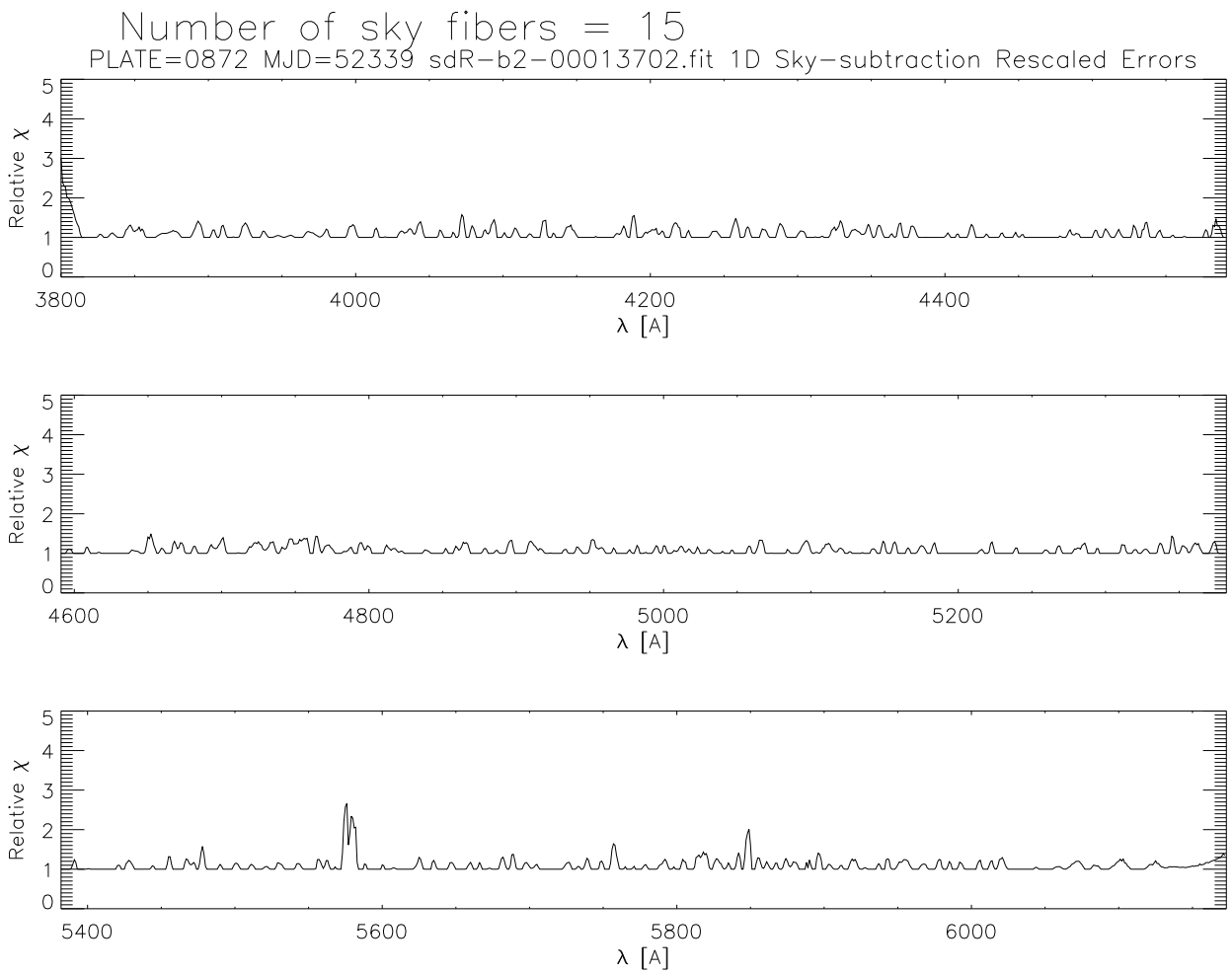

0.0
−0.1
−0.2
−0.3
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

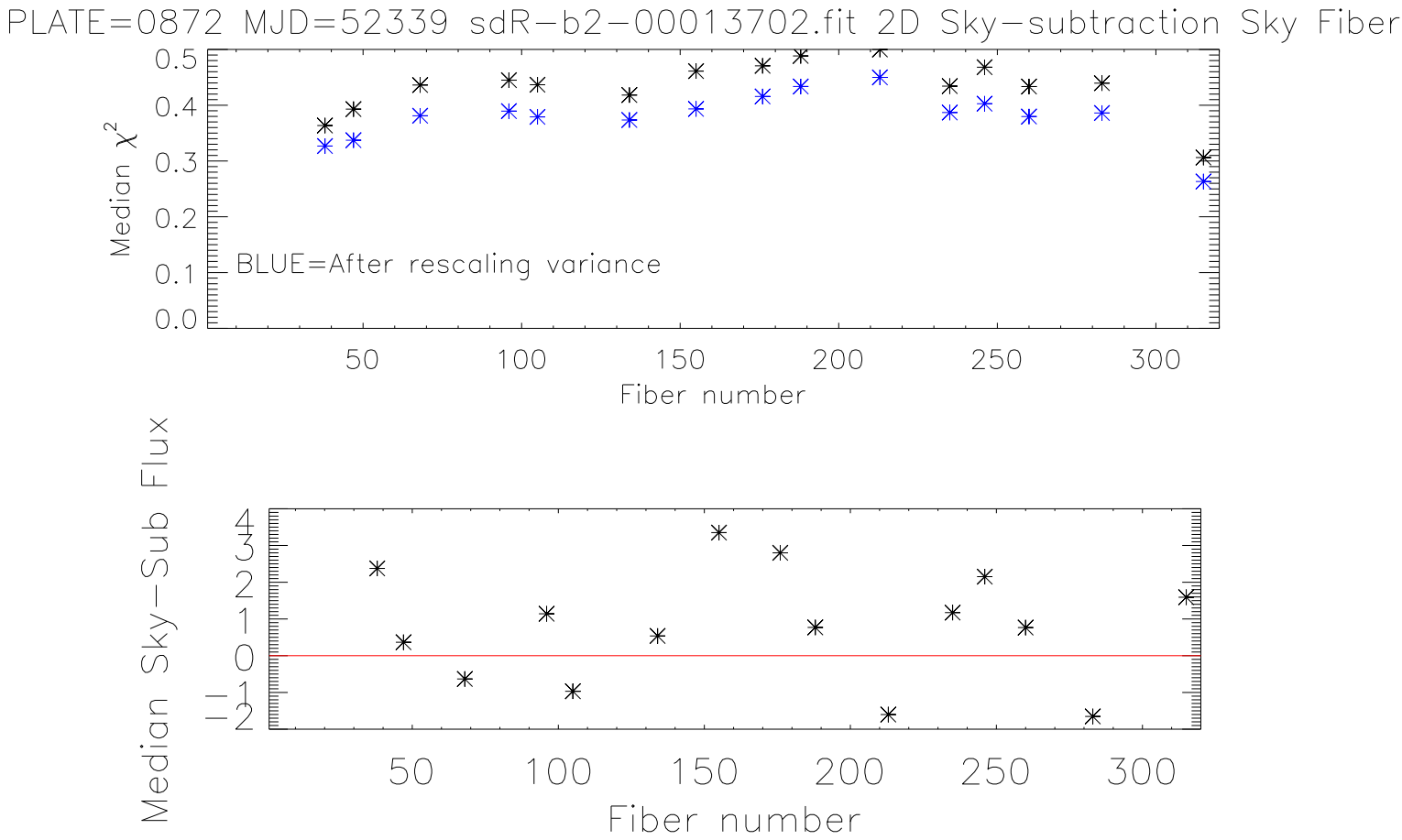

PLATE=0872 MJD=52339 Smooth superflat for sdR-b2-00013702.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

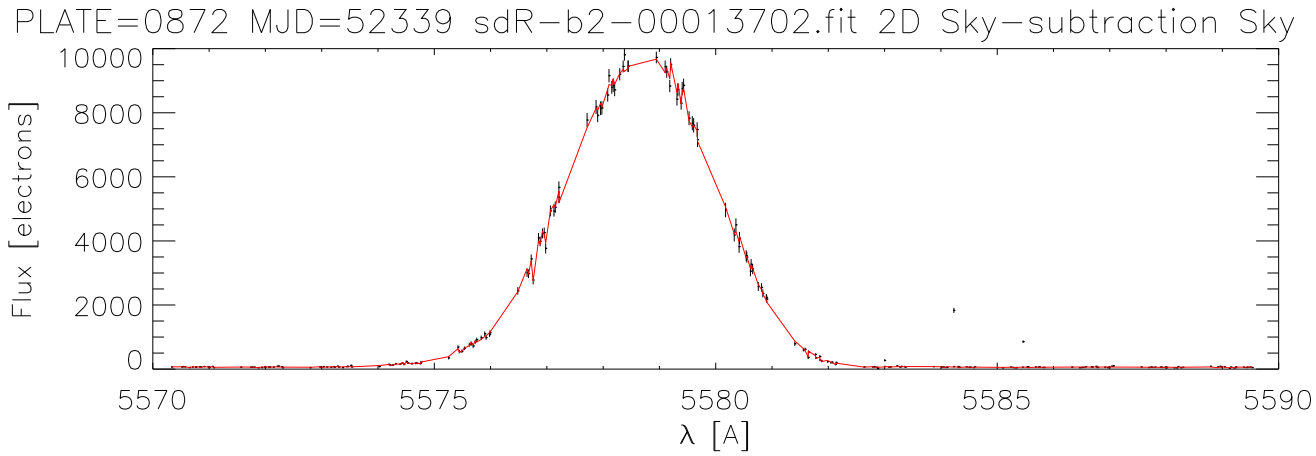

PLATE=0872 MJD=52339 sdR-b2-00013702.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

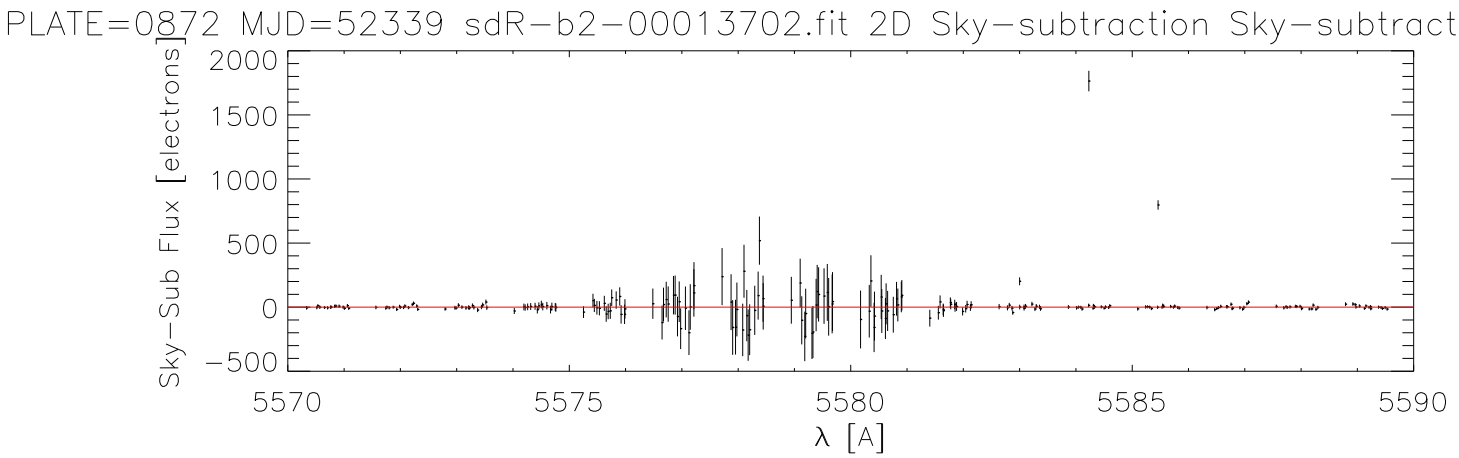

PLATE=0872 MJD=52339 sdR-b2-00013702.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

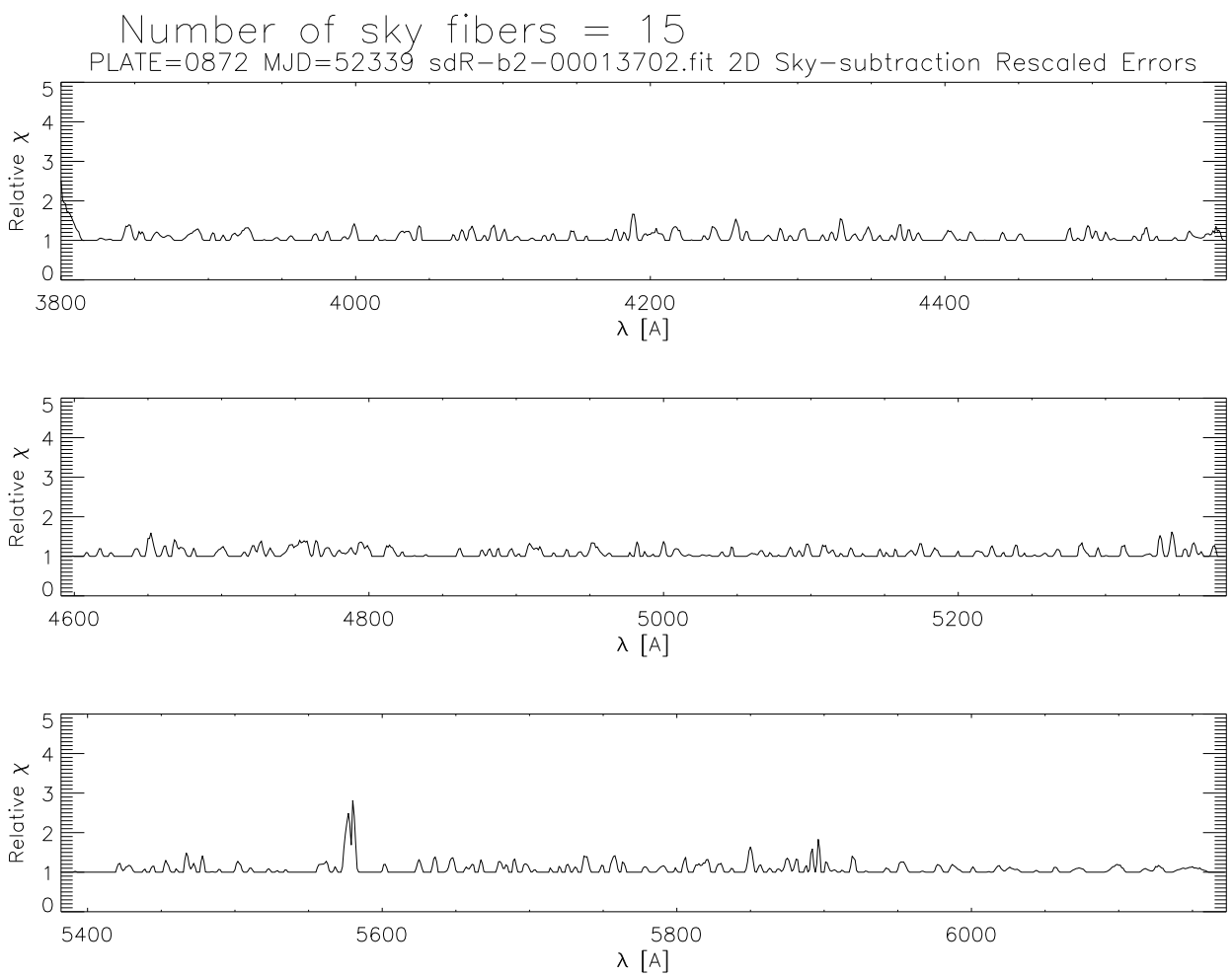

PLATE=0872 MJD=52339 sdR-b2-00013702.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

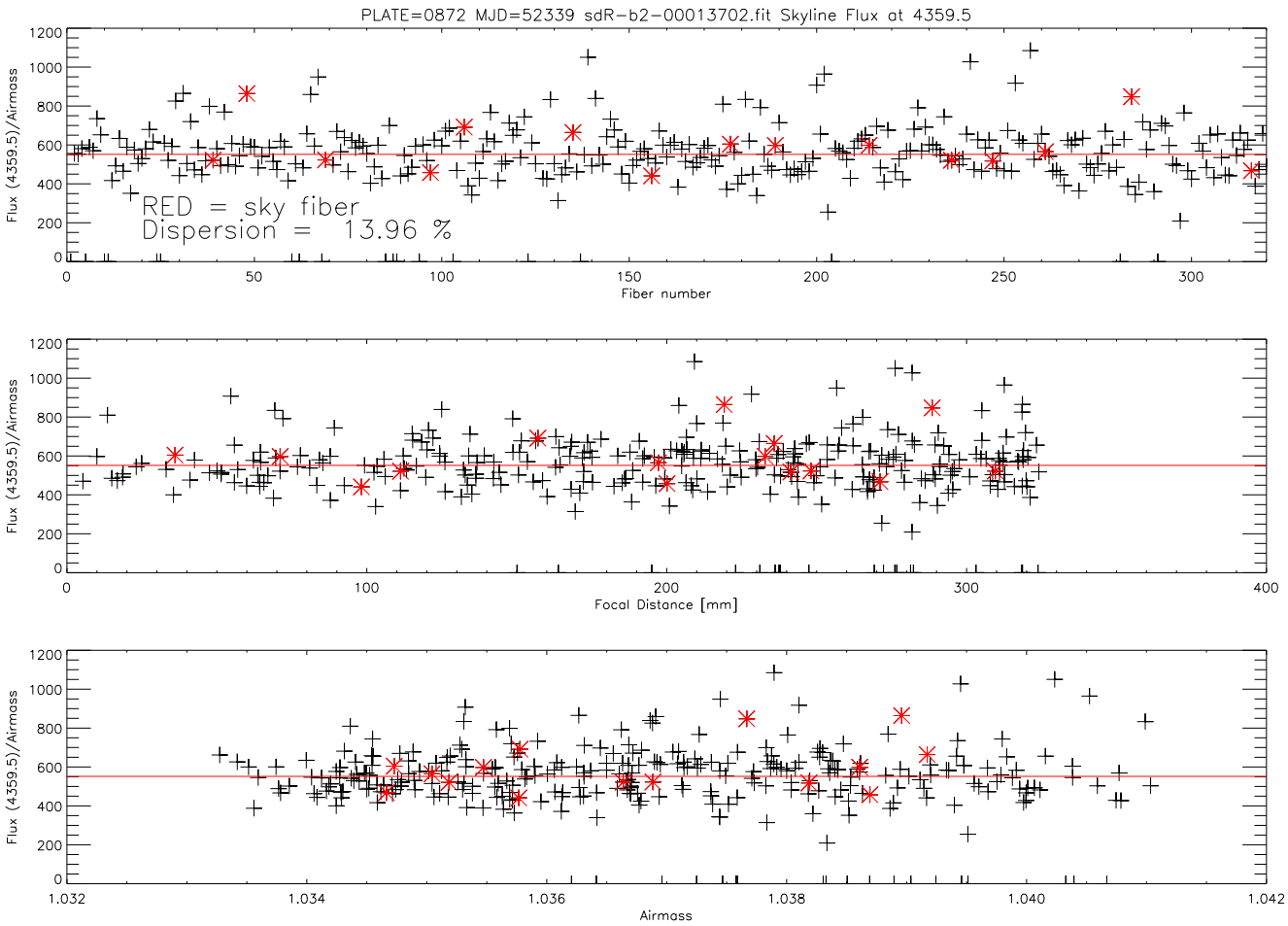

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b2-00013702.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

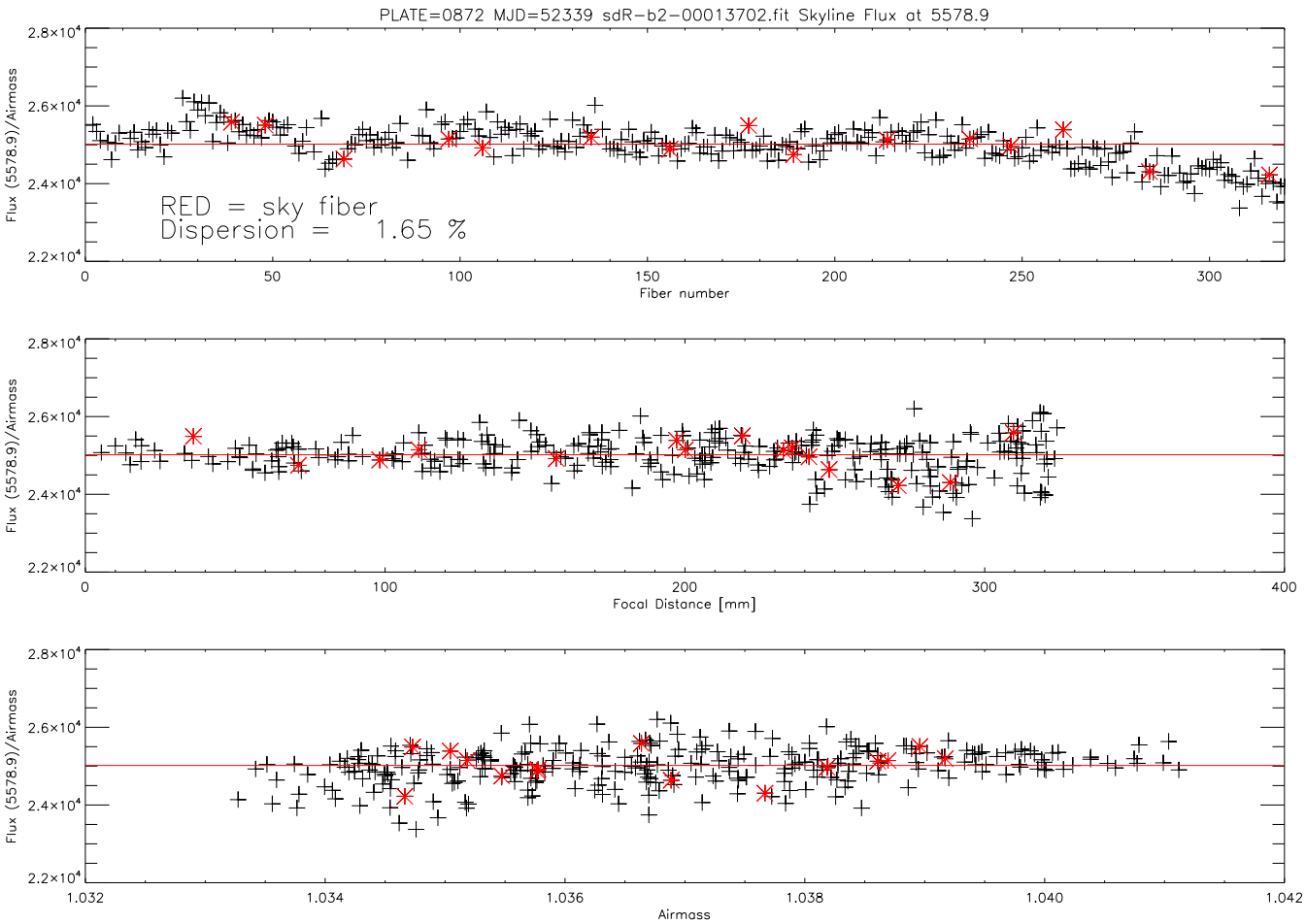

PLATE=0872 MJD=52339 sdR-b2-00013702.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

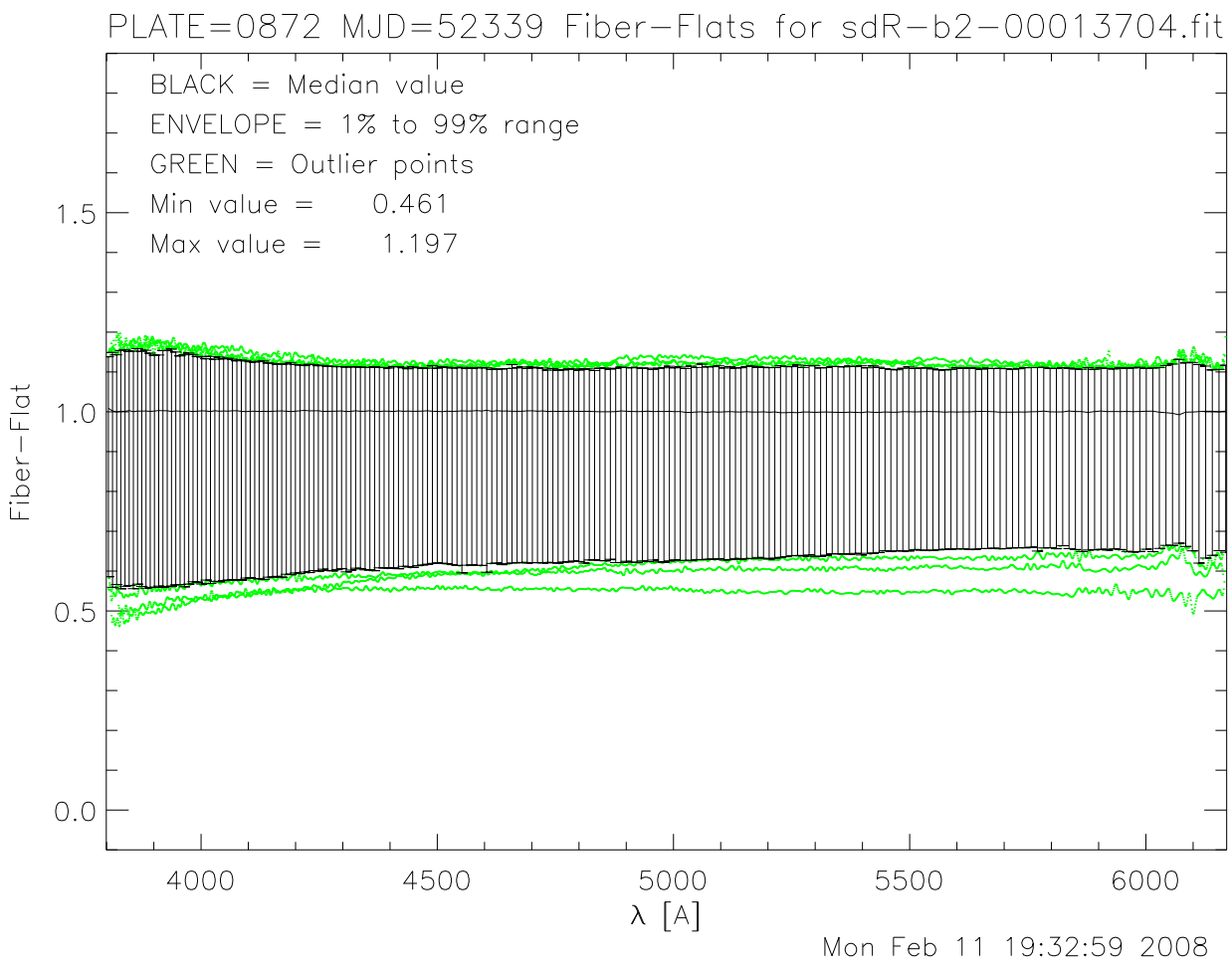

PLATE=0872 MJD=52339 sdR-b2-00013702.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

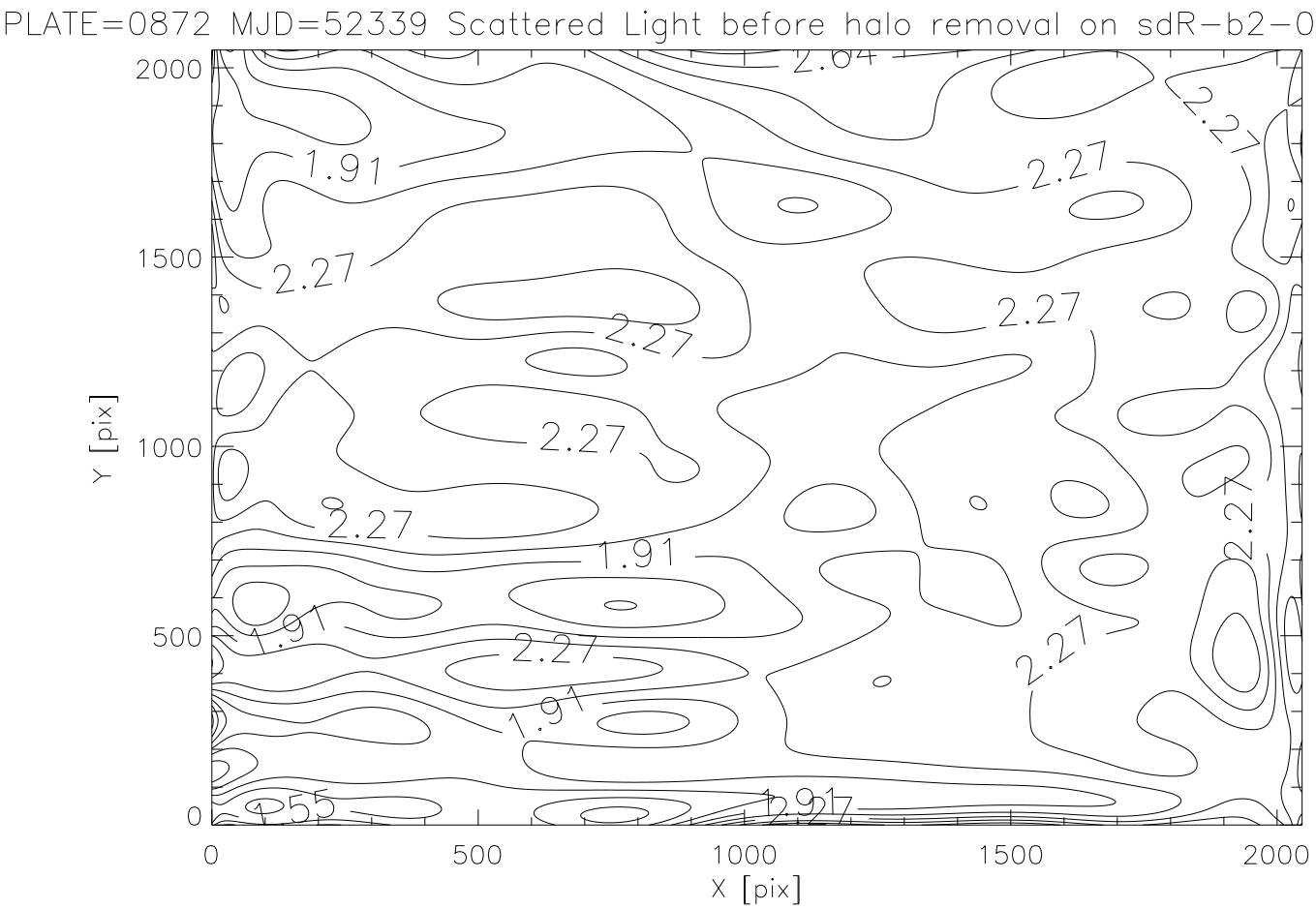

PLATE=0872 MJD=52339 sdR-b2-00013702.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

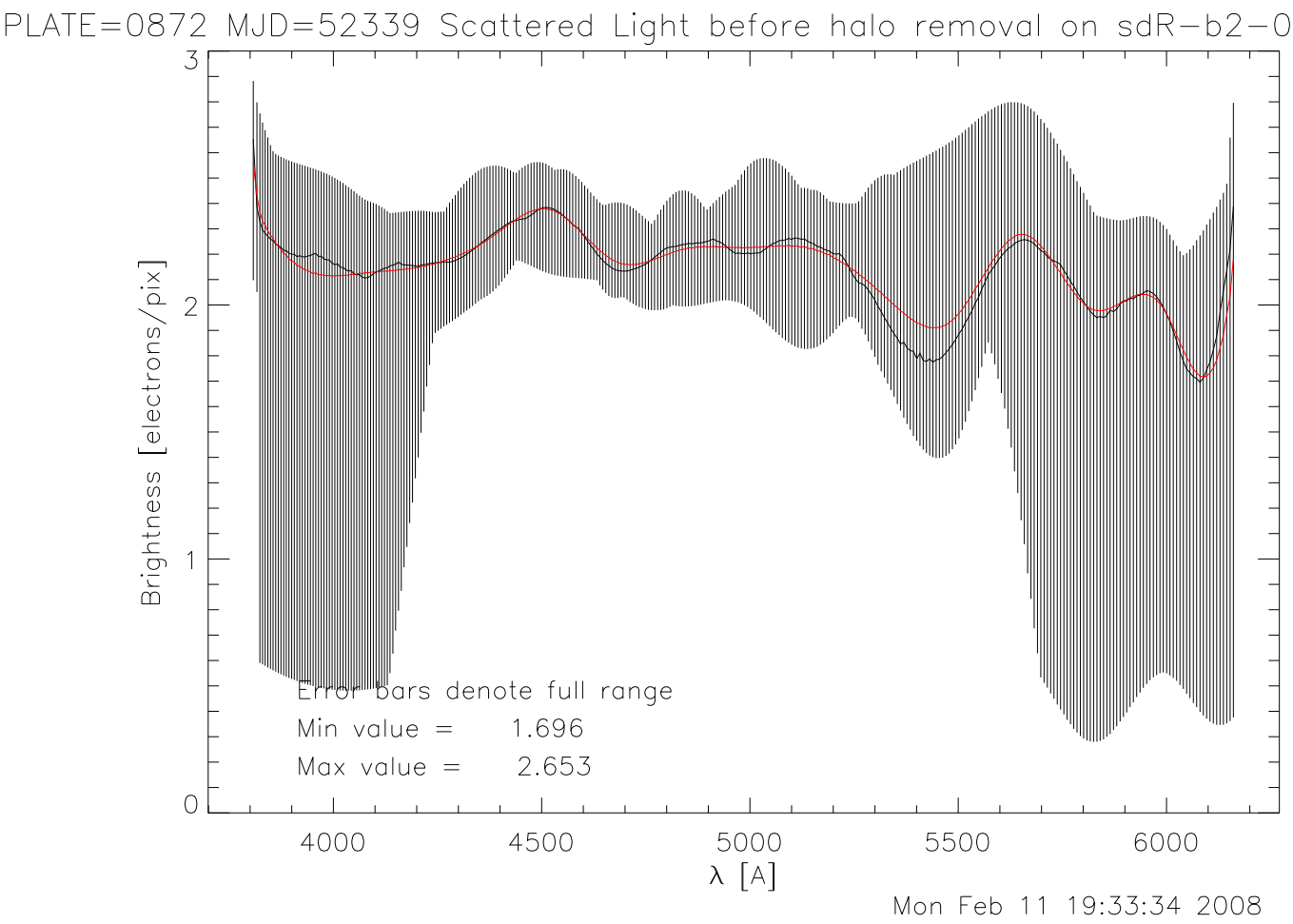

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b2-00013702.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

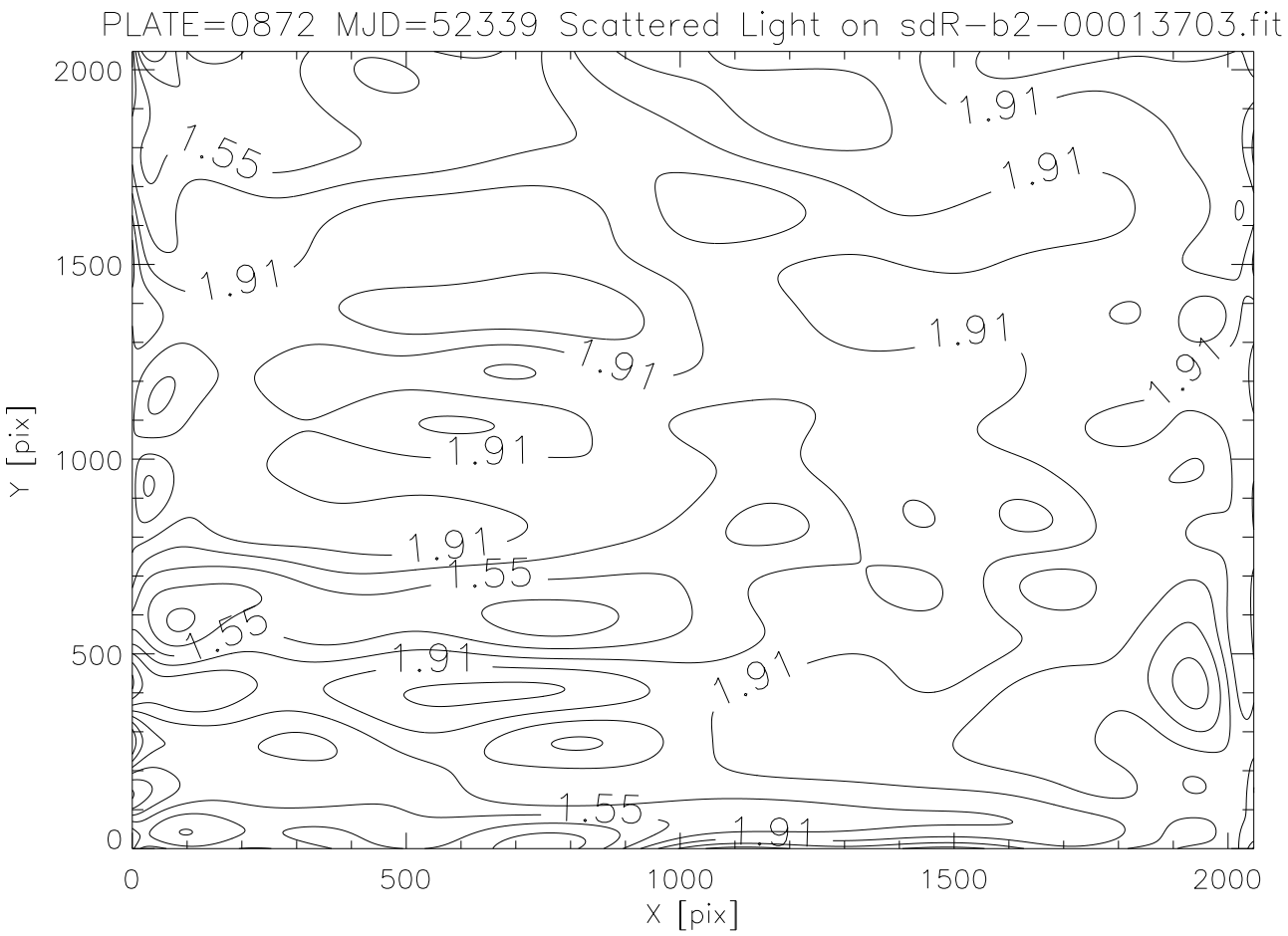

PLATE=0872 MJD=52339 sdR-b2-00013702.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.96 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

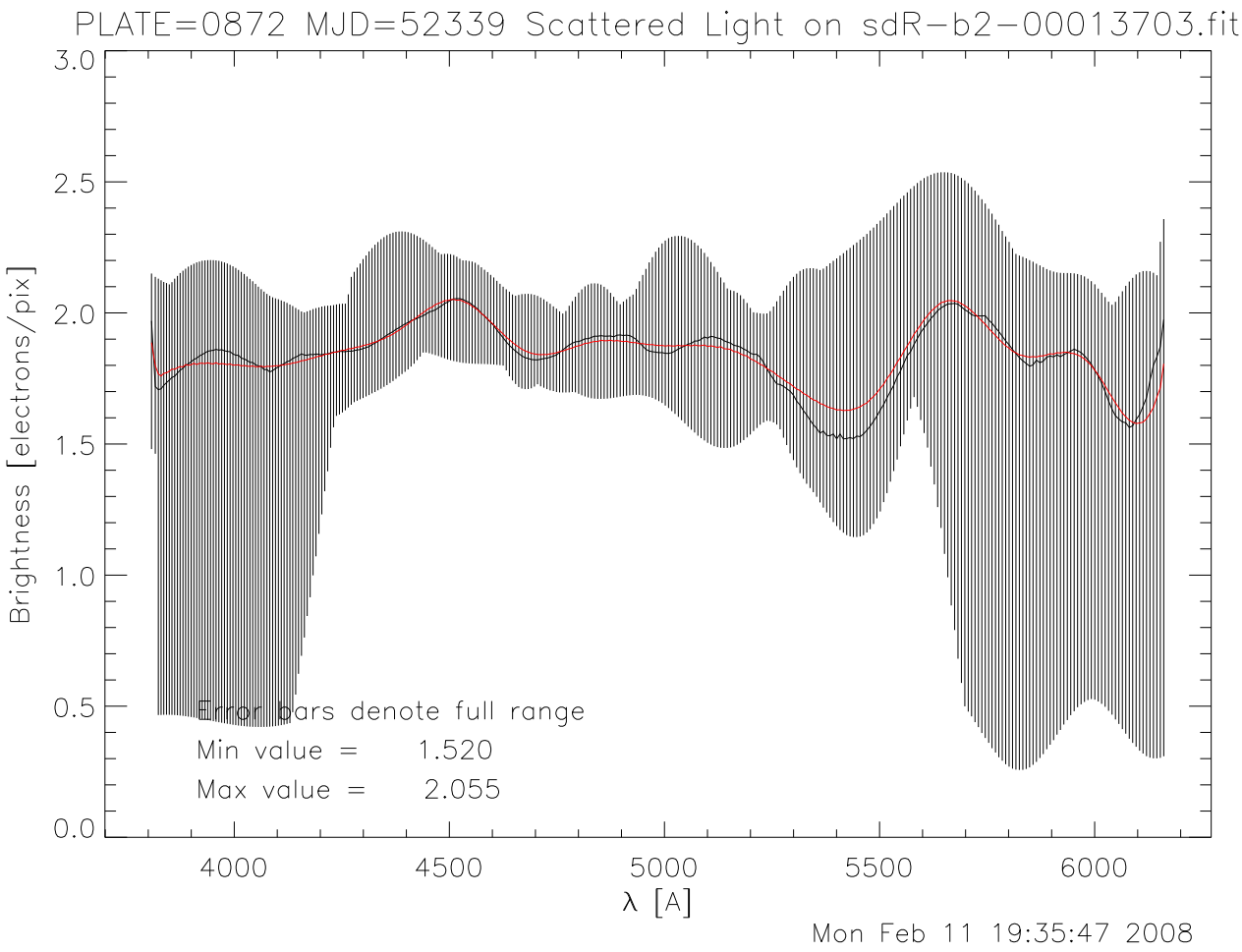

PLATE=0872 MJD=52339 sdR-b2-00013702.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
2.8×10^4
2.6×10^4
2.4×10^4
2.2×10^4
RED = sky fiber
Dispersion = 1.65 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
2.8×10^4
2.6×10^4
2.4×10^4
2.2×10^4
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
2.8×10^4
2.6×10^4
2.4×10^4
2.2×10^4
1.032
1.034
1.036
1.038
1.040
1.042
Airmass

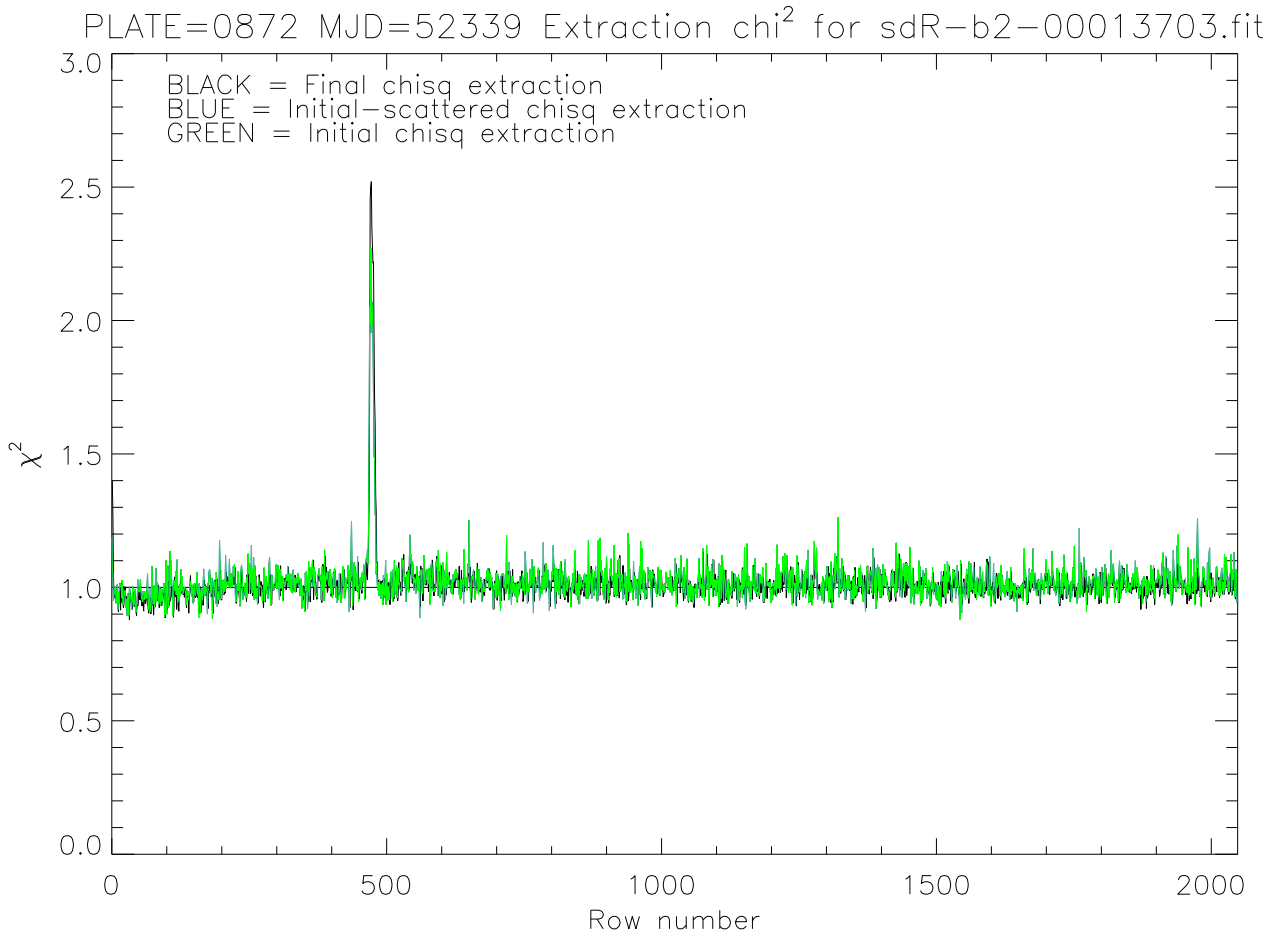

PLATE=0872 MJD=52339 Fiber-Flats for sdR-b2-00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.461
Max value = 1.197
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:32:59 2008

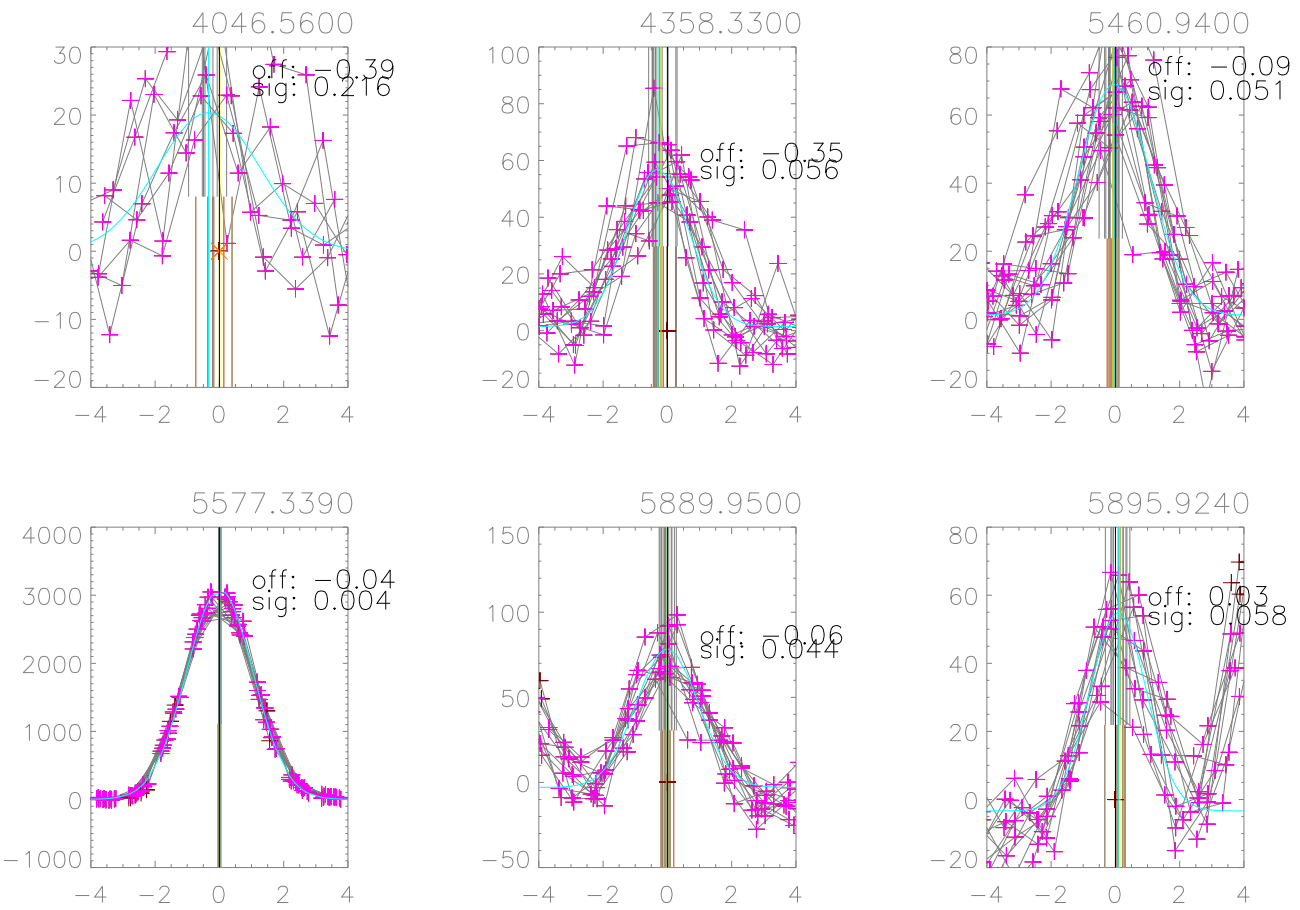

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b2-00013703.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
2.64
2.27
1.91
2.27
2.27
2.27
2.27
2.27
1.91
1.91
2.27
1.91
2.27
2.27
2.27
1.91
1.55
1.91

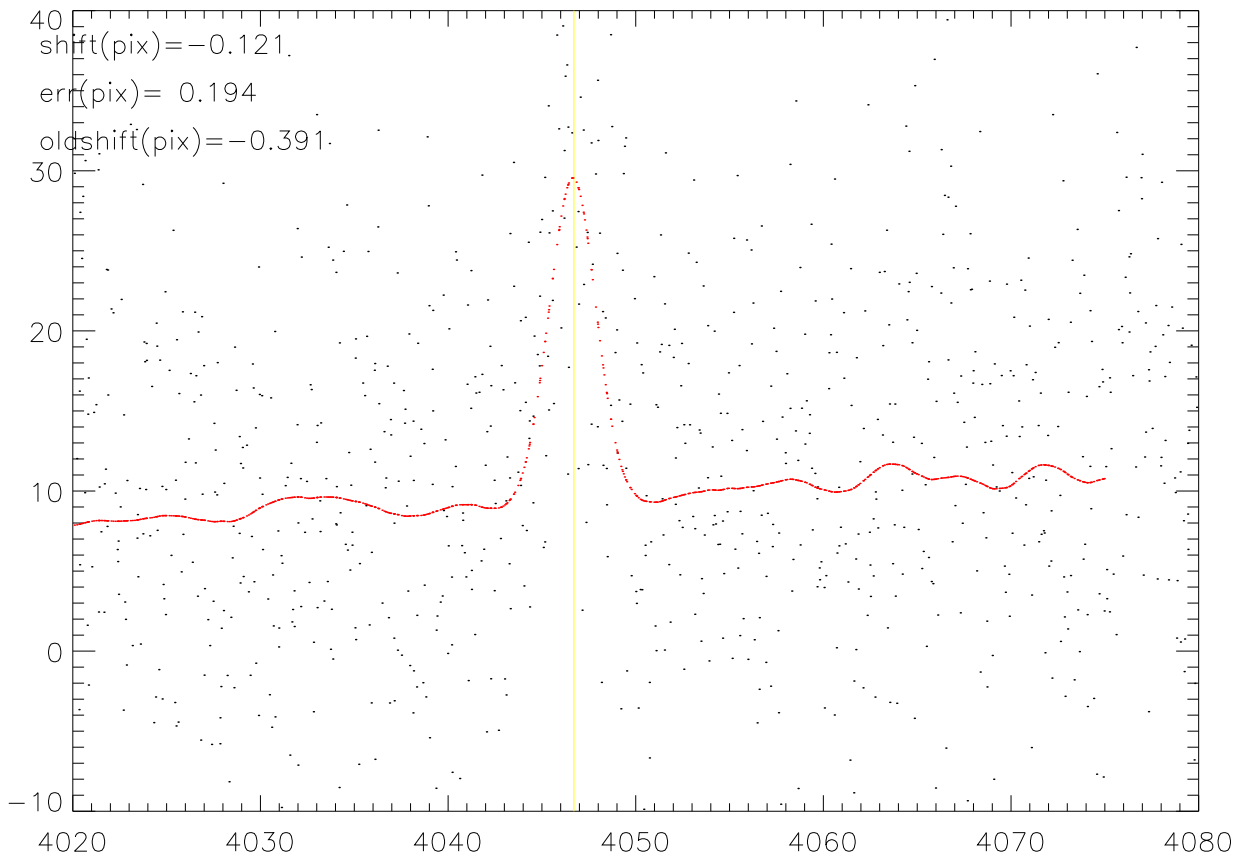

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-b2-00013703.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.696
Max value = 2.653
Mon Feb 11 19:33:34 2008

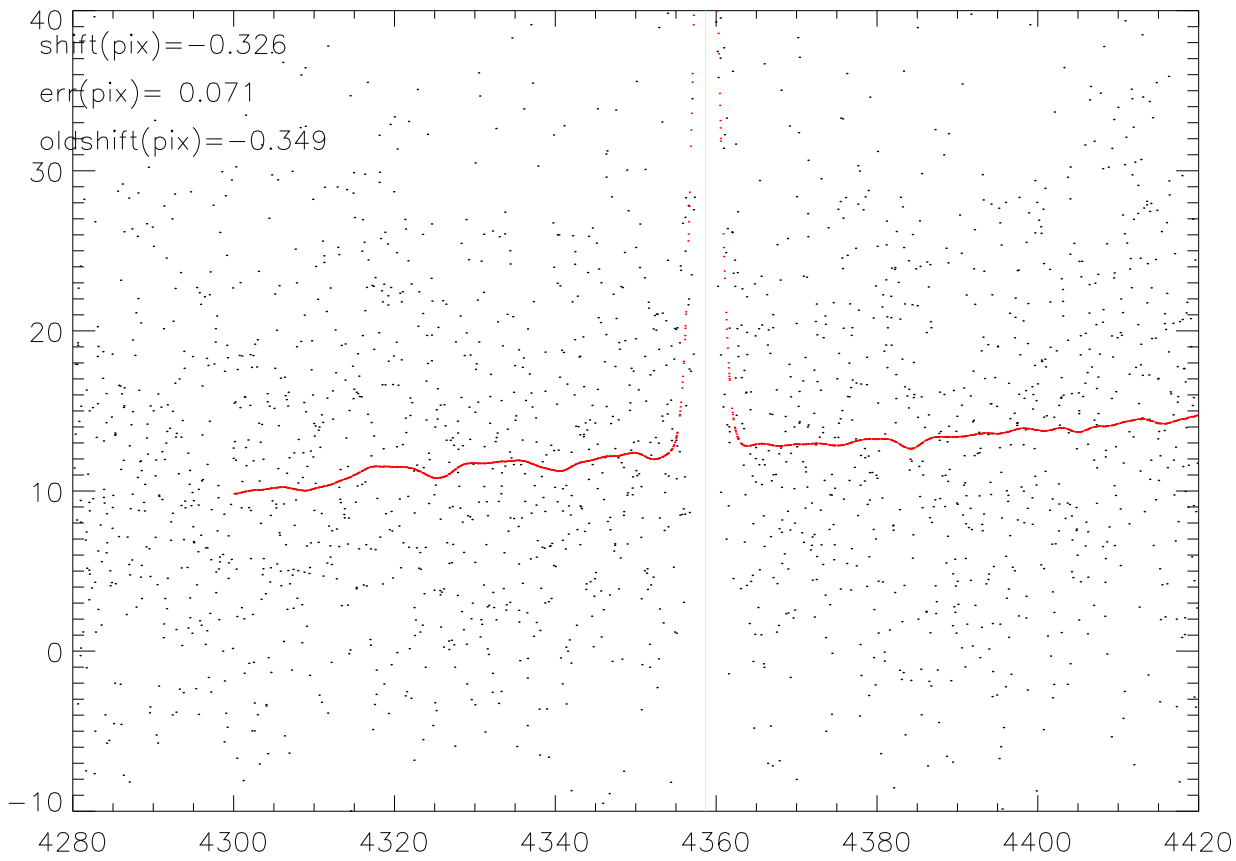

PLATE=0872 MJD=52339 Scattered Light on sdR-b2-00013703.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
1.55
1.91

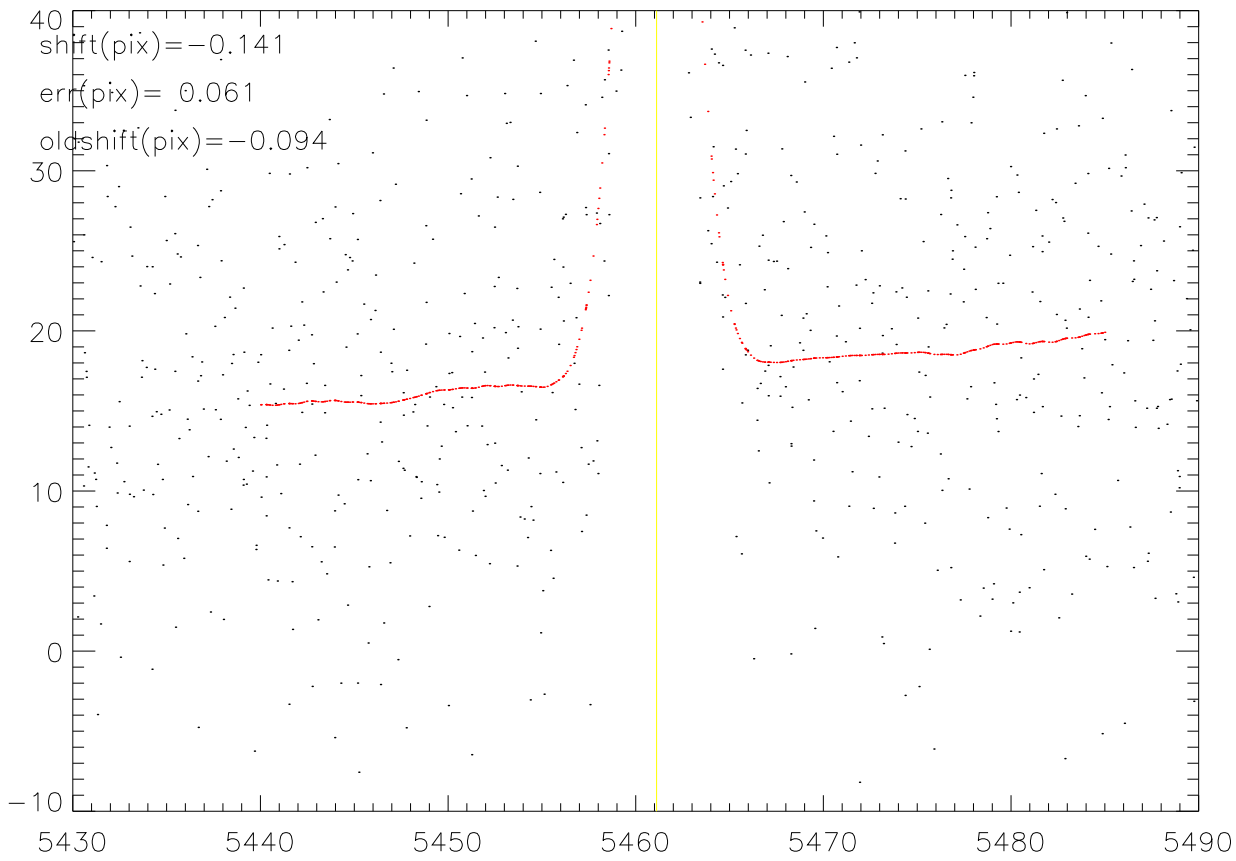

PLATE=0872 MJD=52339 Scattered Light on sdR-b2-00013703.fit
Brightness [electrons/pix]
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 1.520
Max value = 2.055
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 19:35:47 2008

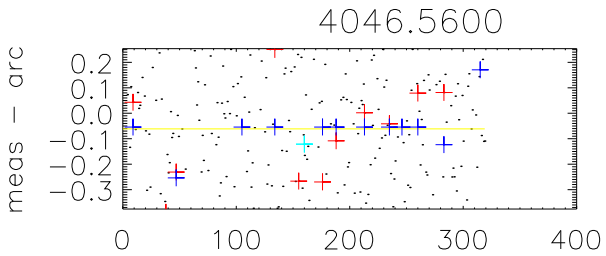

PLATE=0872 MJD=52339 Extraction chi^2 for sdR−b2−00013703.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

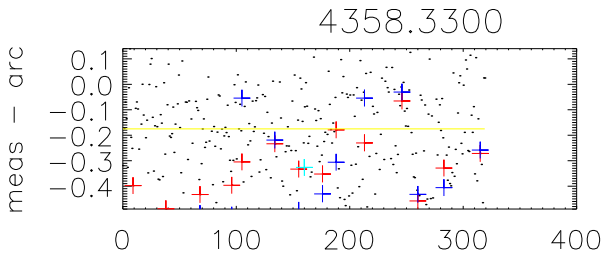

4046.5600
off: −0.39
sig: 0.216
4358.3300
off: −0.35
sig: 0.056
5460.9400
off: −0.09
sig: 0.051
5577.3390
off: −0.04
sig: 0.004
5889.9500
off: −0.06
sig: 0.044
5895.9240
off: 0.03
sig: 0.058

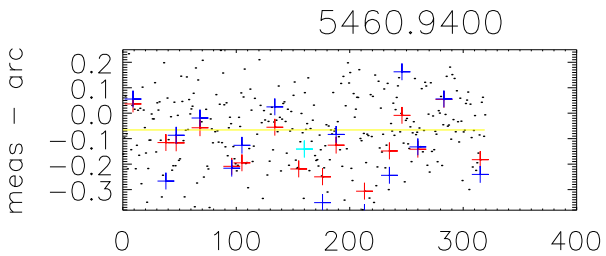

shift(pix)=−0.121
err(pix)= 0.194
oldshift(pix)=−0.391
40
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

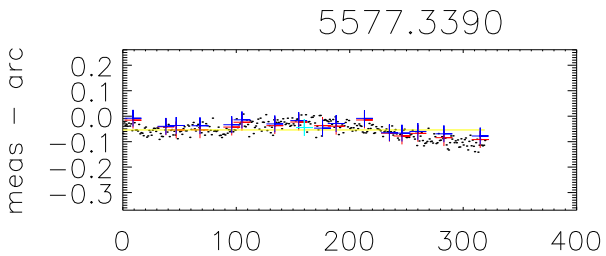

shift(pix)=−0.326
err(pix)= 0.071
oldshift(pix)=−0.349
40
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

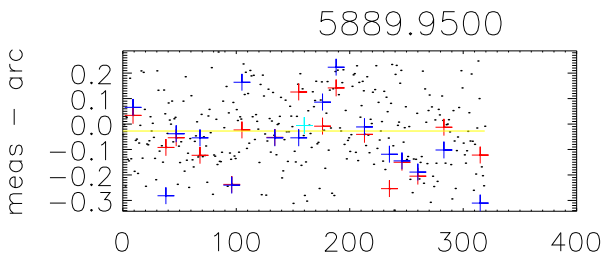

shift(pix)=−0.141
err(pix)= 0.061
oldshift(pix)=−0.094
40
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

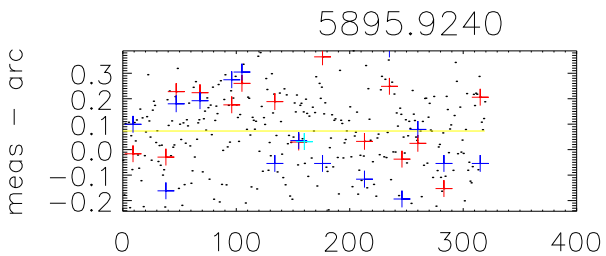

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

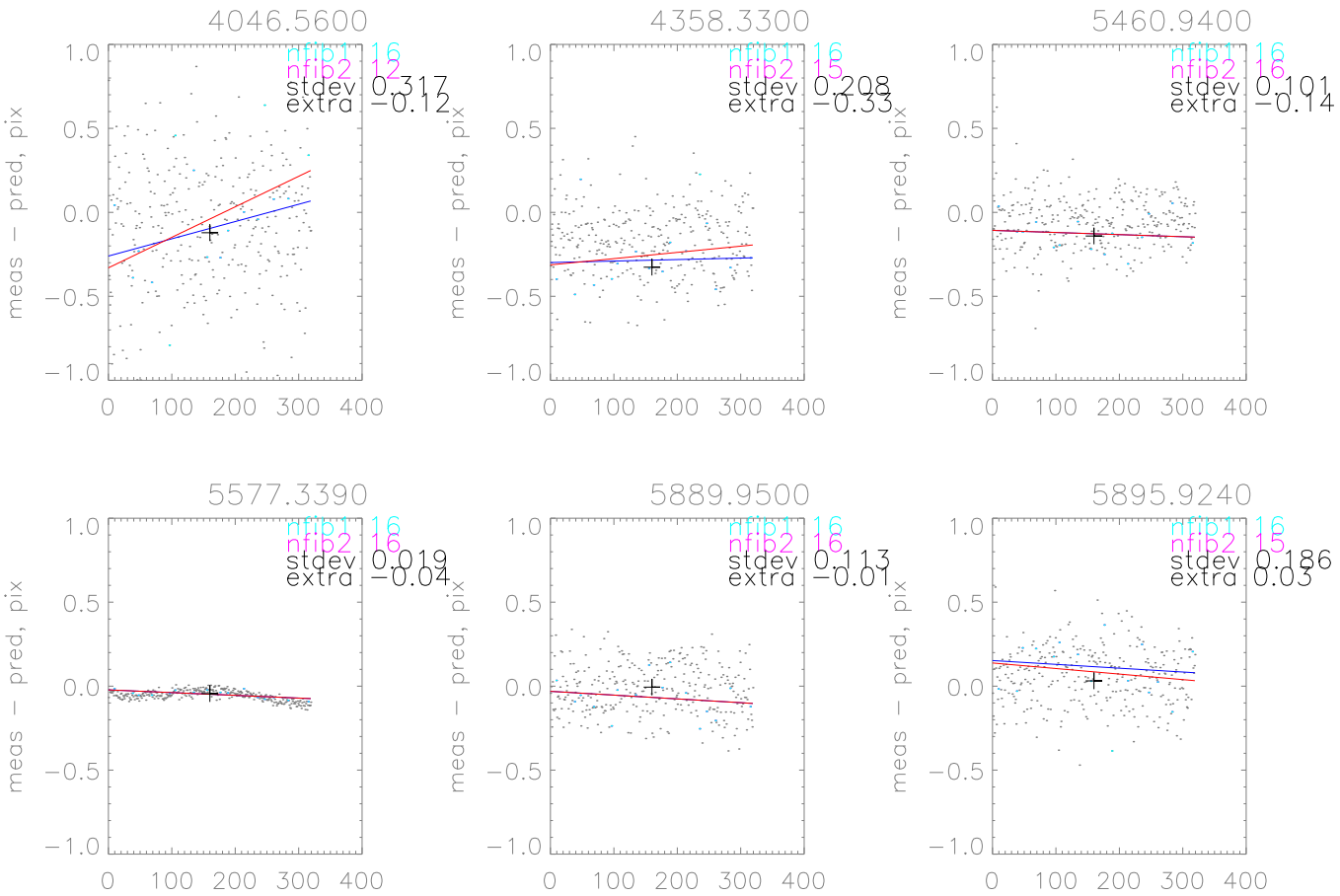

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

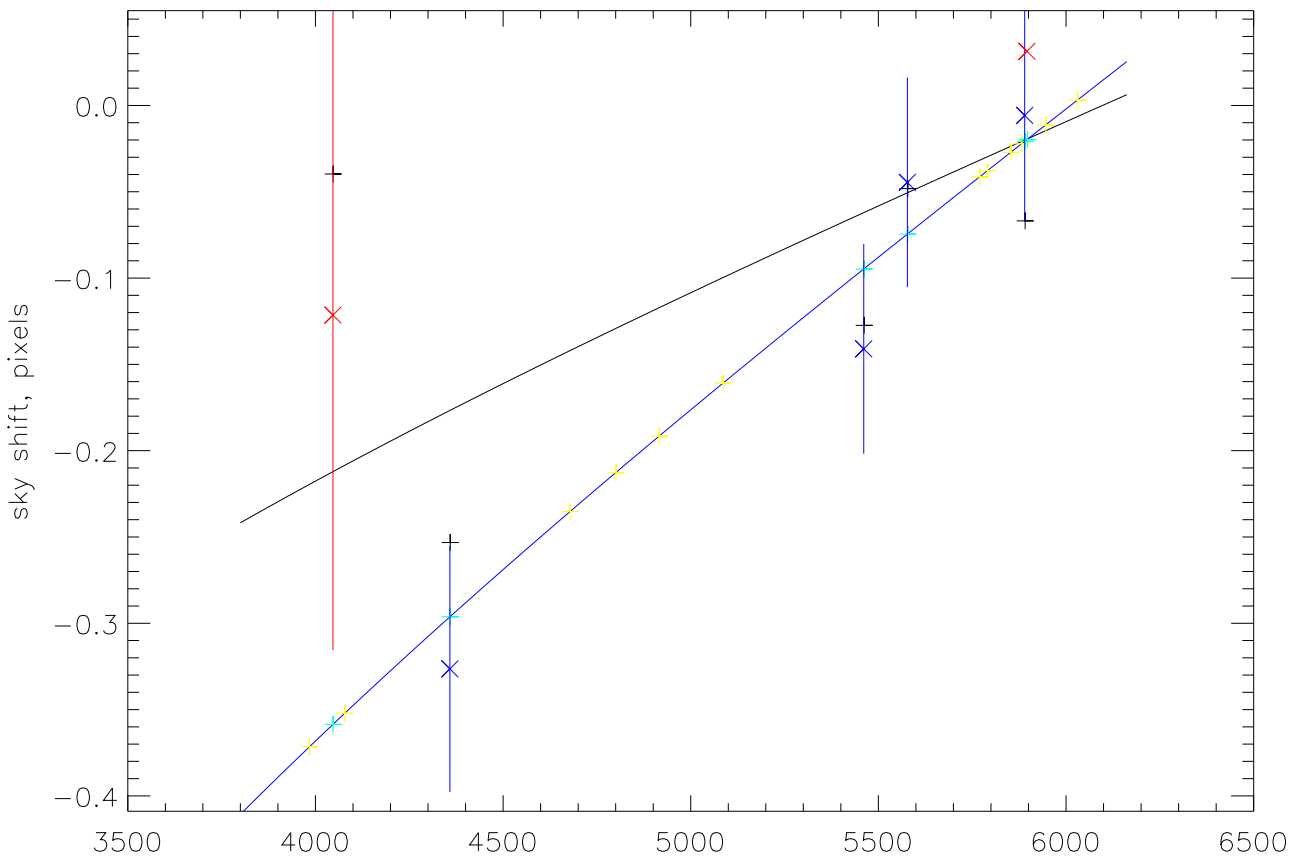

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

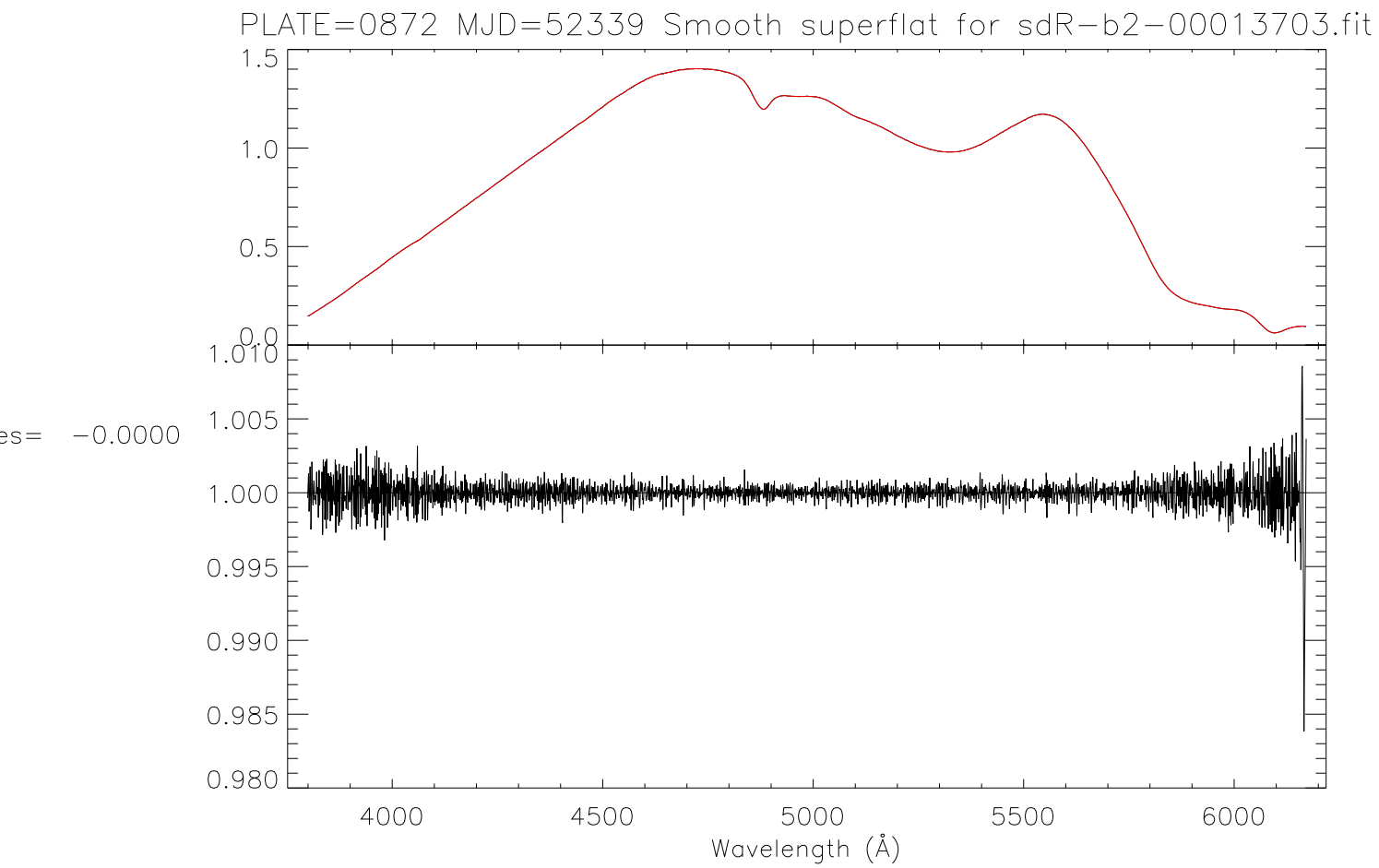

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

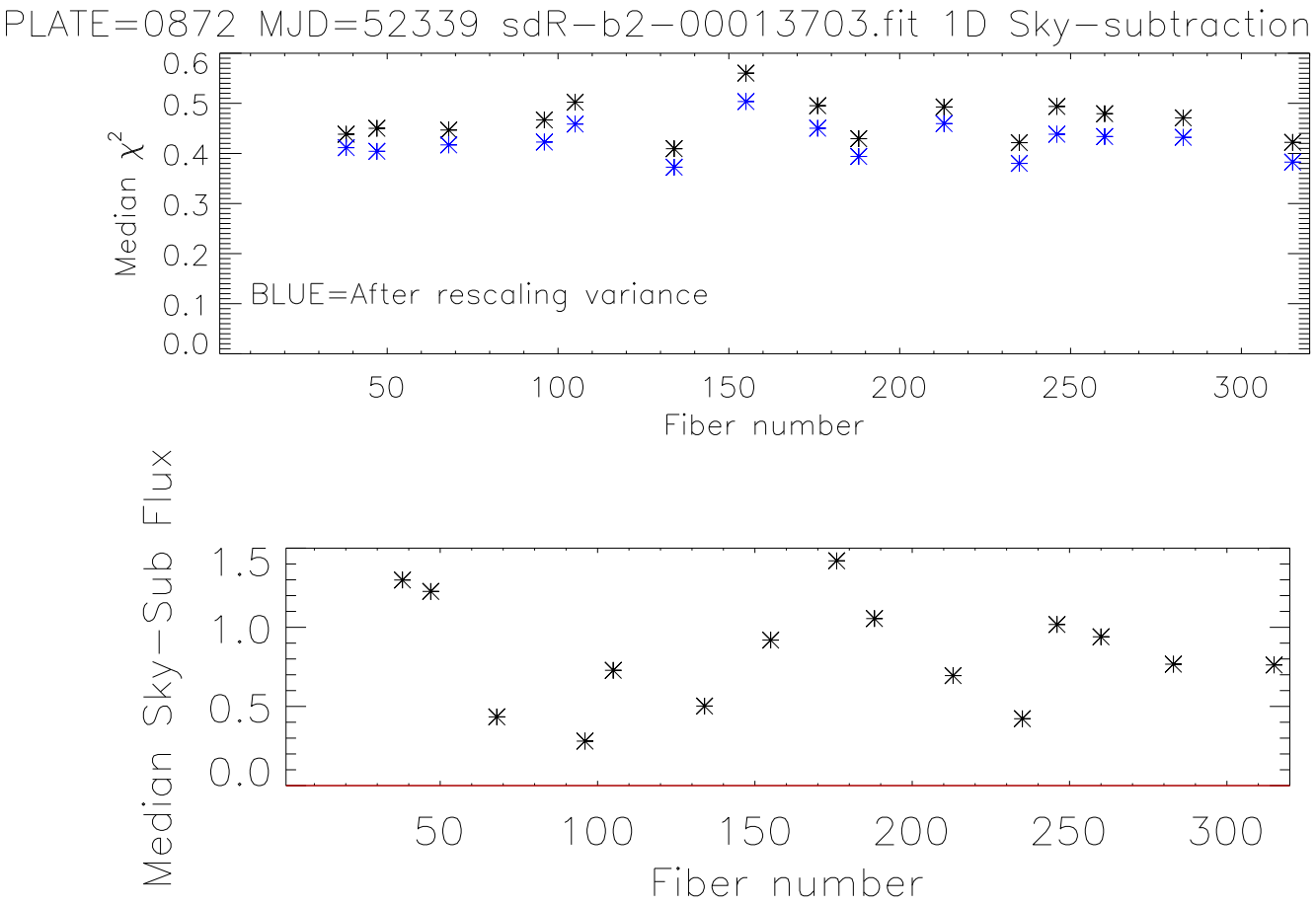

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

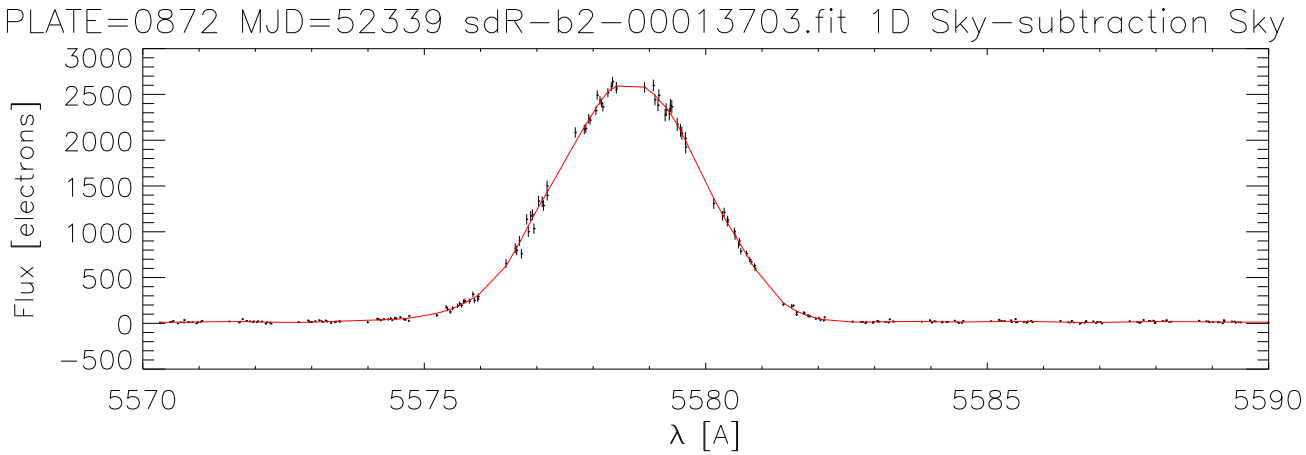

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

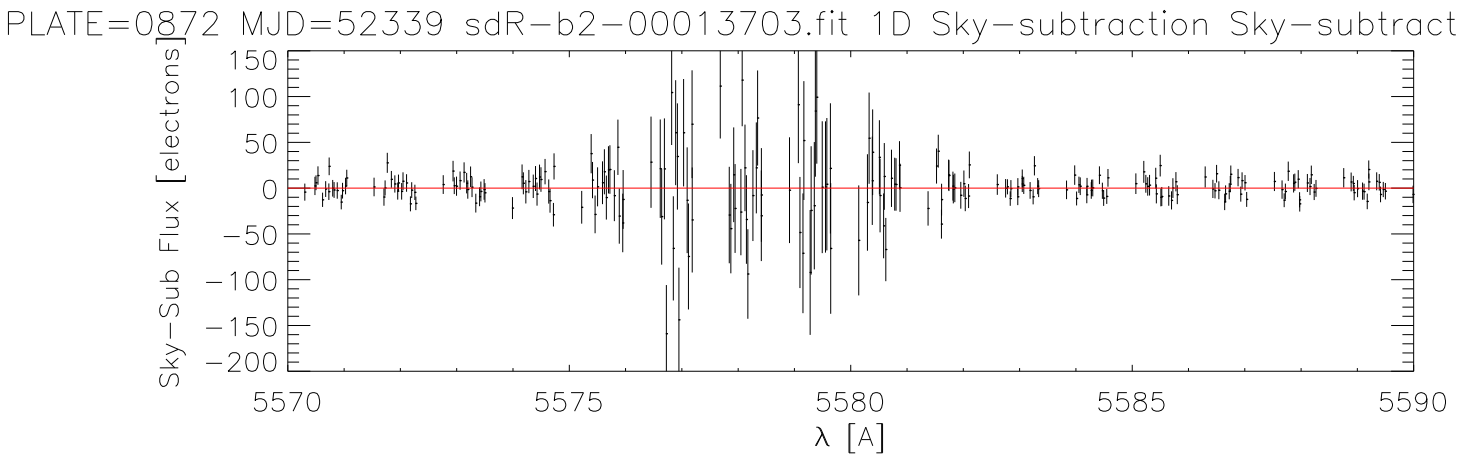

4046.5600
nfib1 16
nfib2 12
stdev 0.317
extra −0.12
4358.3300
nfib1 16
nfib2 15
stdev 0.208
extra −0.33
5460.9400
nfib1 16
nfib2 16
stdev 0.101
extra −0.14
5577.3390
nfib1 16
nfib2 16
stdev 0.019
extra −0.04
5889.9500
nfib1 16
nfib2 16
stdev 0.113
extra −0.01
5895.9240
nfib1 16
nfib2 15
stdev 0.186
extra 0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

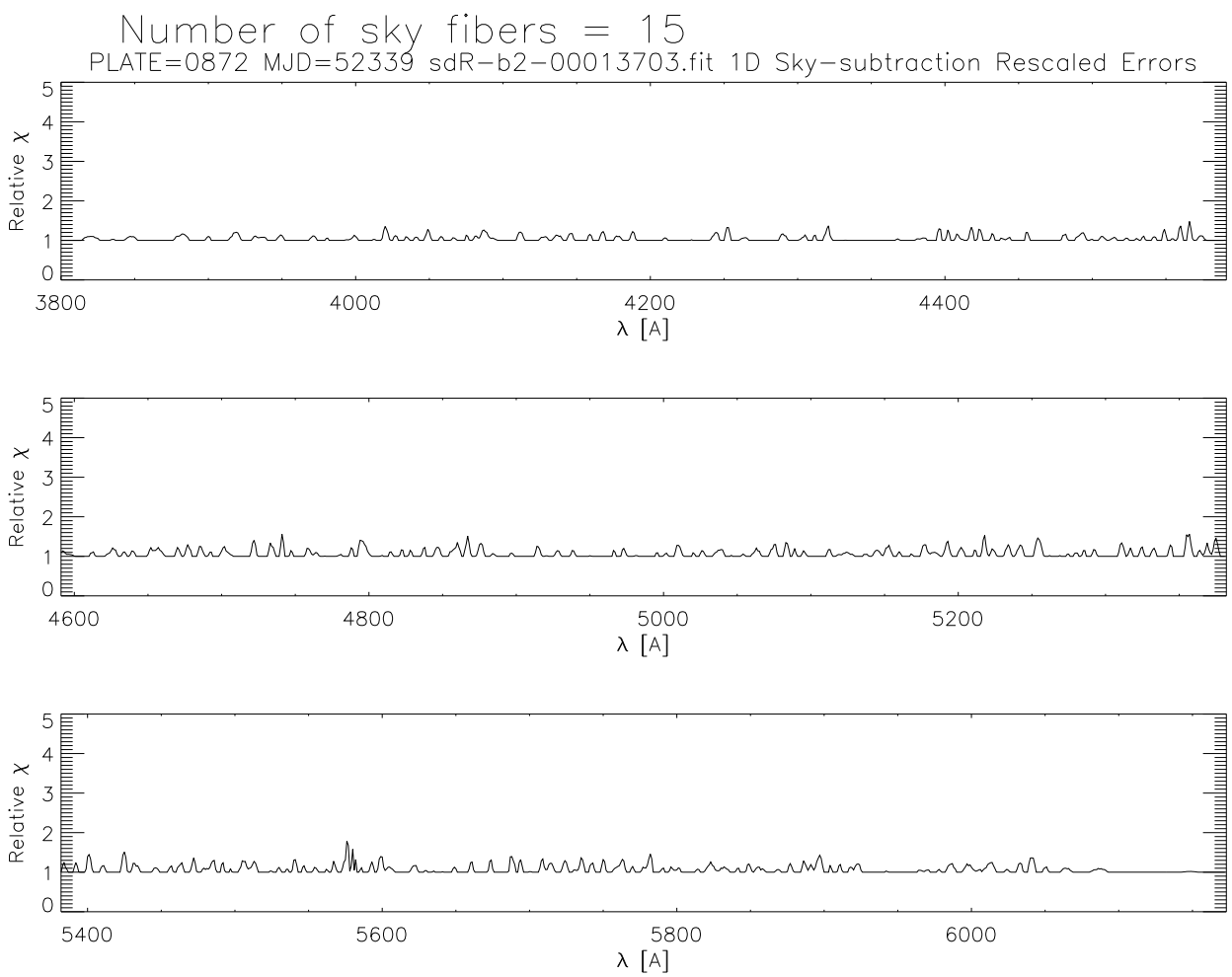

sky shift, pixels
0.0
−0.1
−0.2
−0.3
−0.4
3500
4000
4500
5000
5500
6000
6500

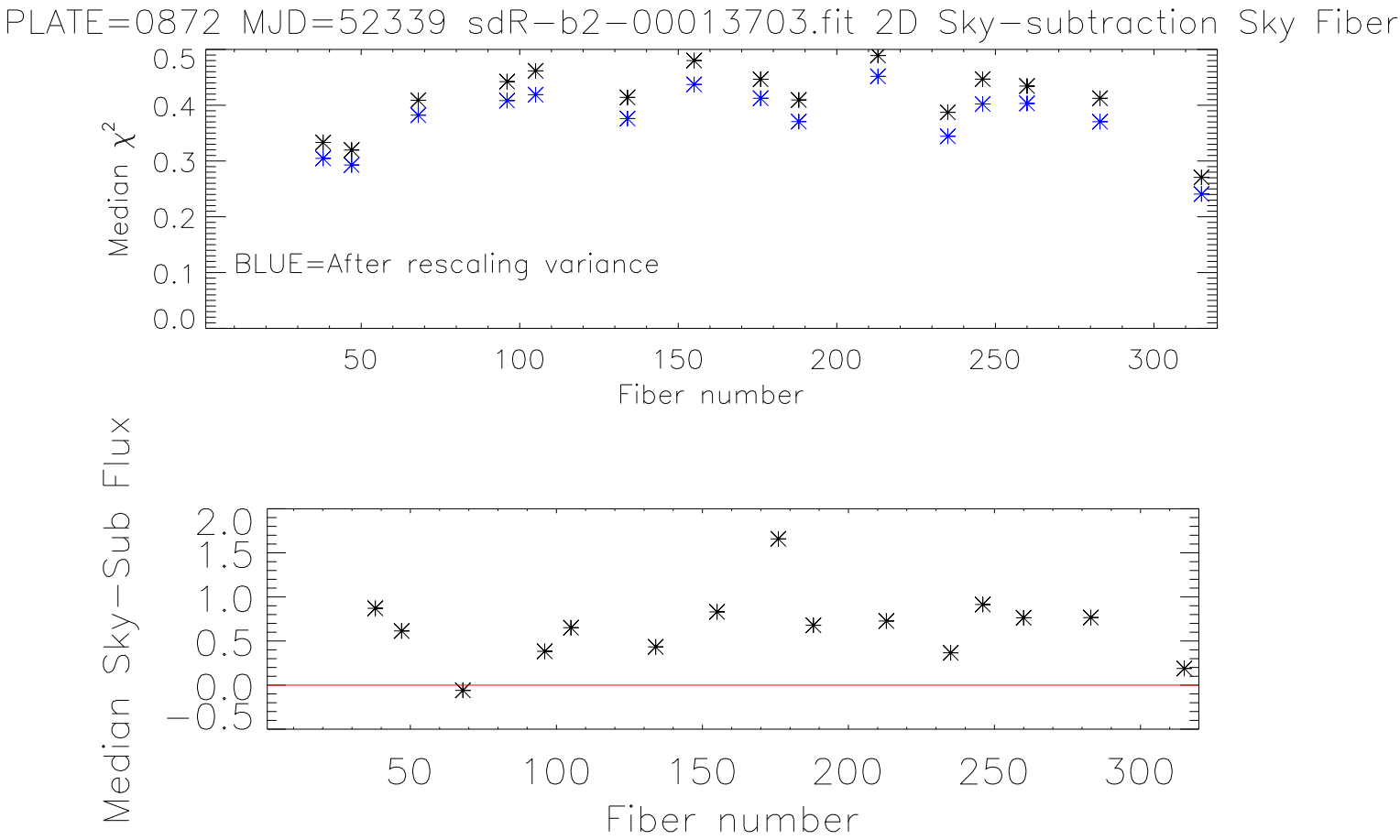

PLATE=0872 MJD=52339 Smooth superflat for sdR-b2-00013703.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

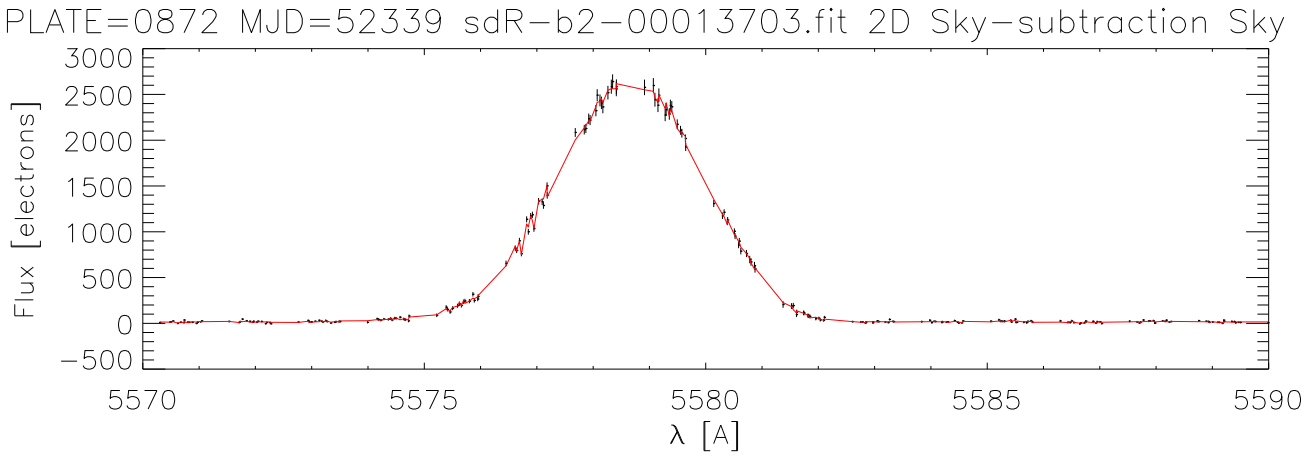

PLATE=0872 MJD=52339 sdR-b2-00013703.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

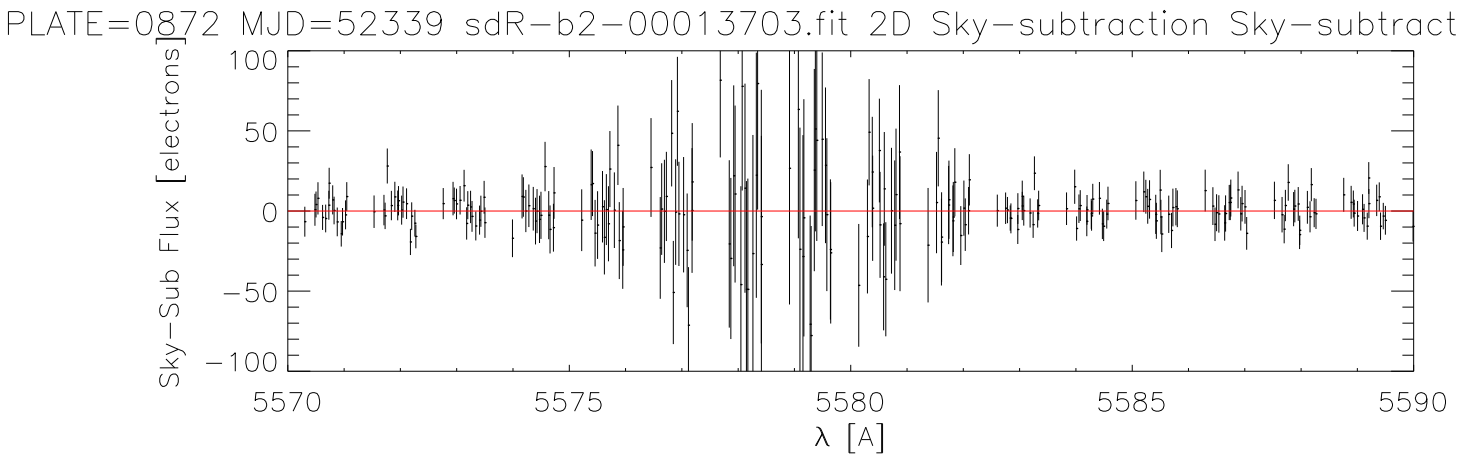

PLATE=0872 MJD=52339 sdR-b2-00013703.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

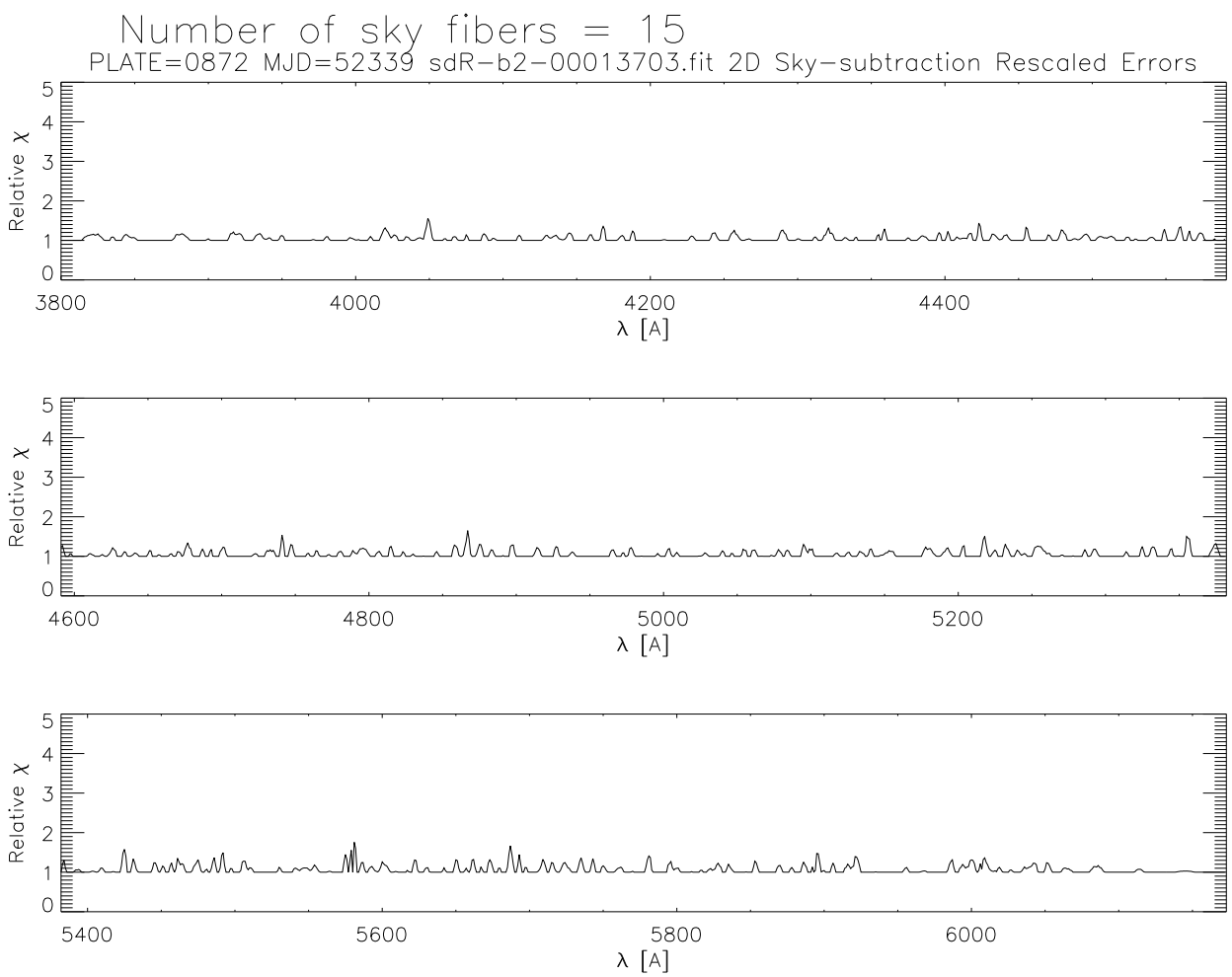

PLATE=0872 MJD=52339 sdR-b2-00013703.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
-200
5570
5575
5580
5585
5590
λ [A]

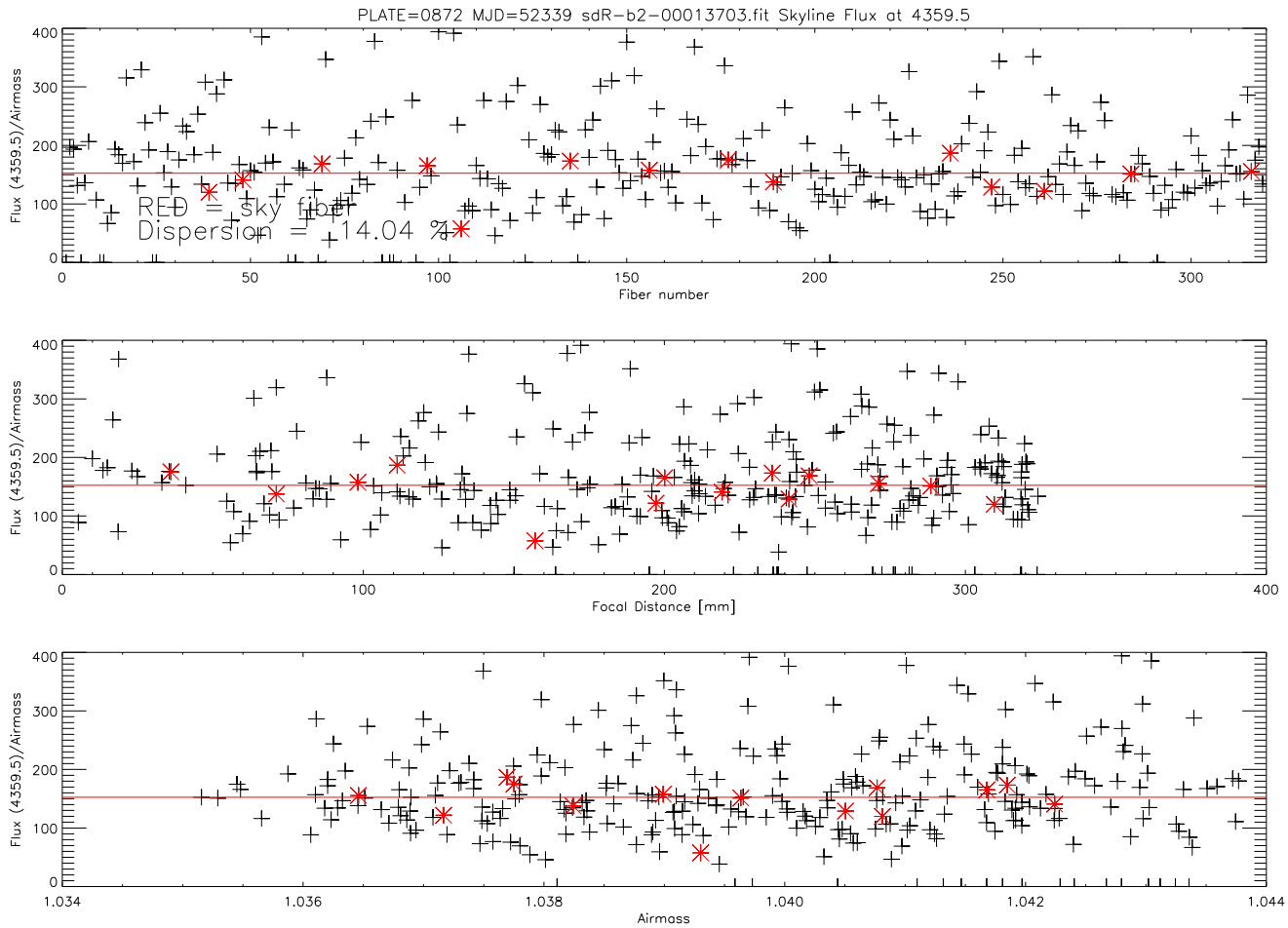

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b2-00013703.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

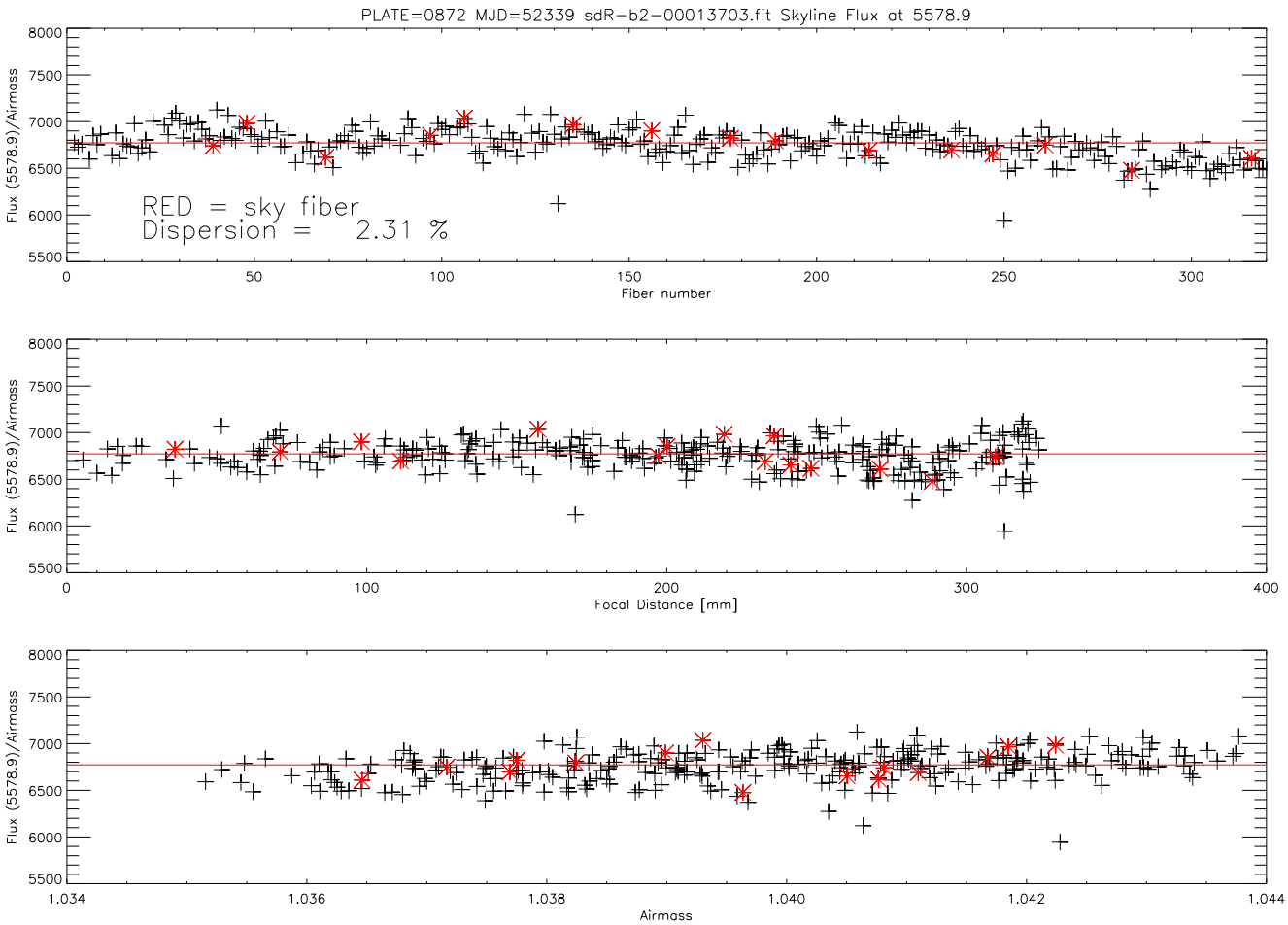

PLATE=0872 MJD=52339 sdR-b2-00013703.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

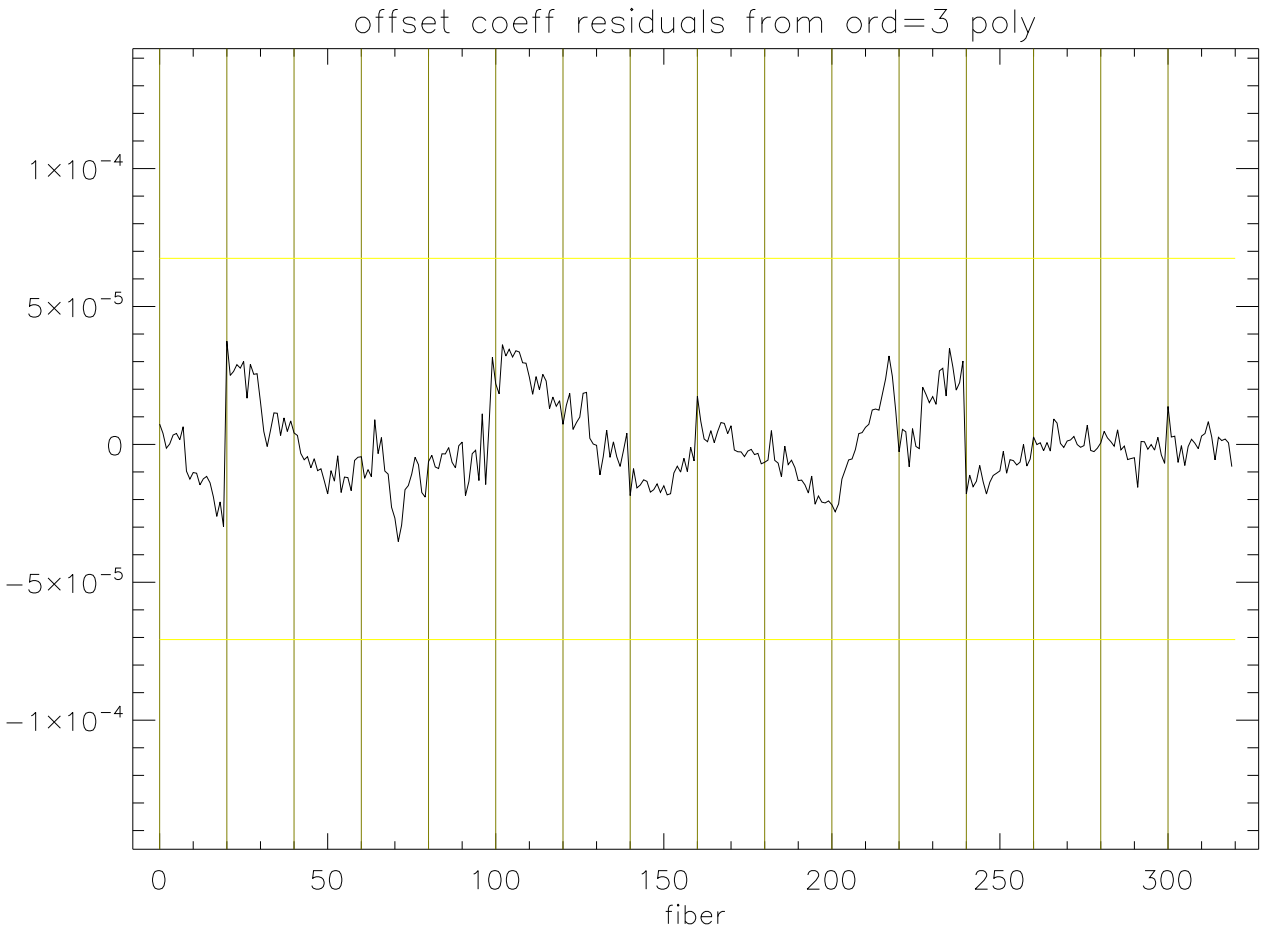

PLATE=0872 MJD=52339 sdR-b2-00013703.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
−500
5570
5575
5580
5585
5590
λ [A]

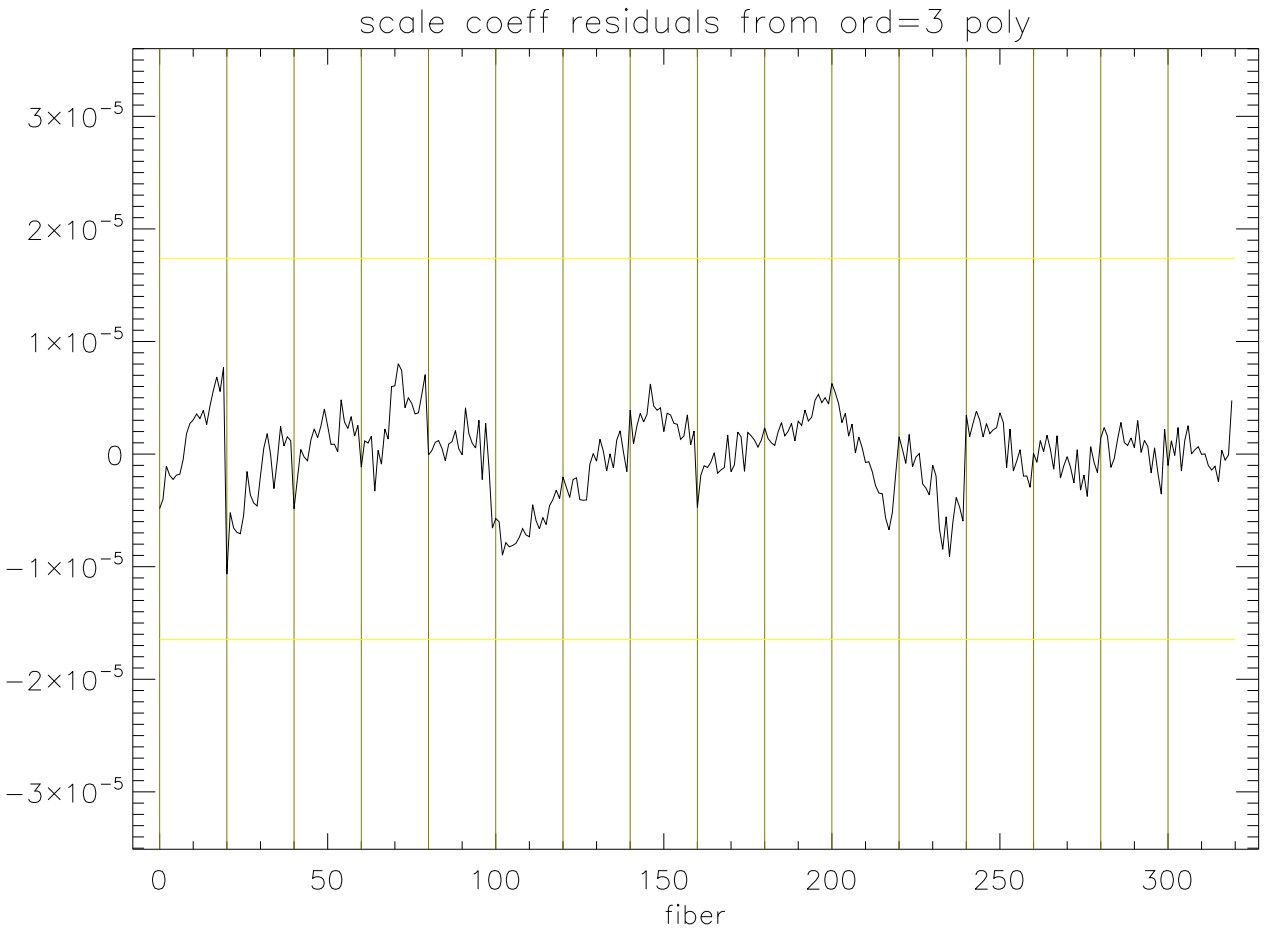

PLATE=0872 MJD=52339 sdR-b2-00013703.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

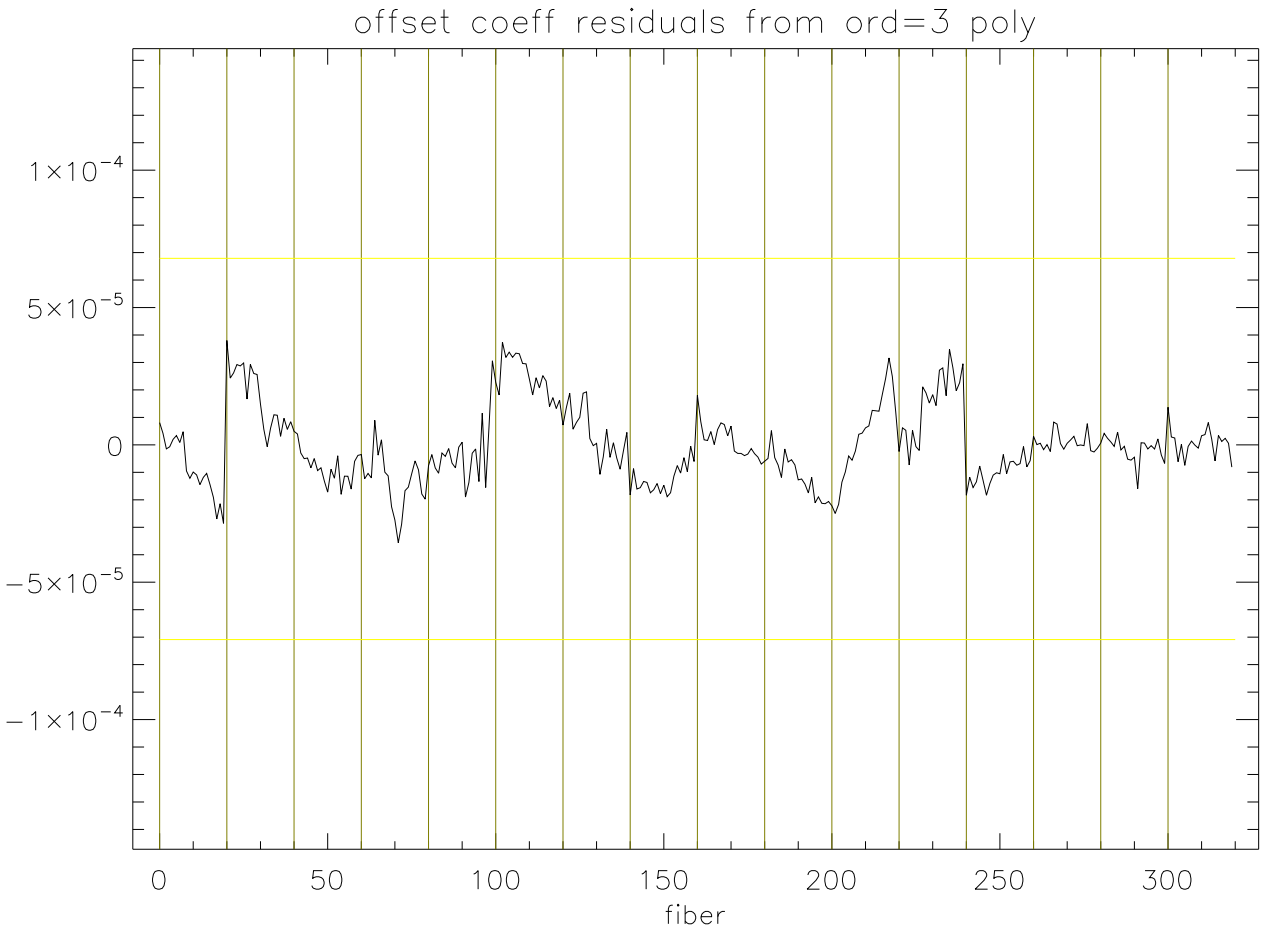

Number of sky fibers = 15
PLATE=0872 MJD=52339 sdR-b2-00013703.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

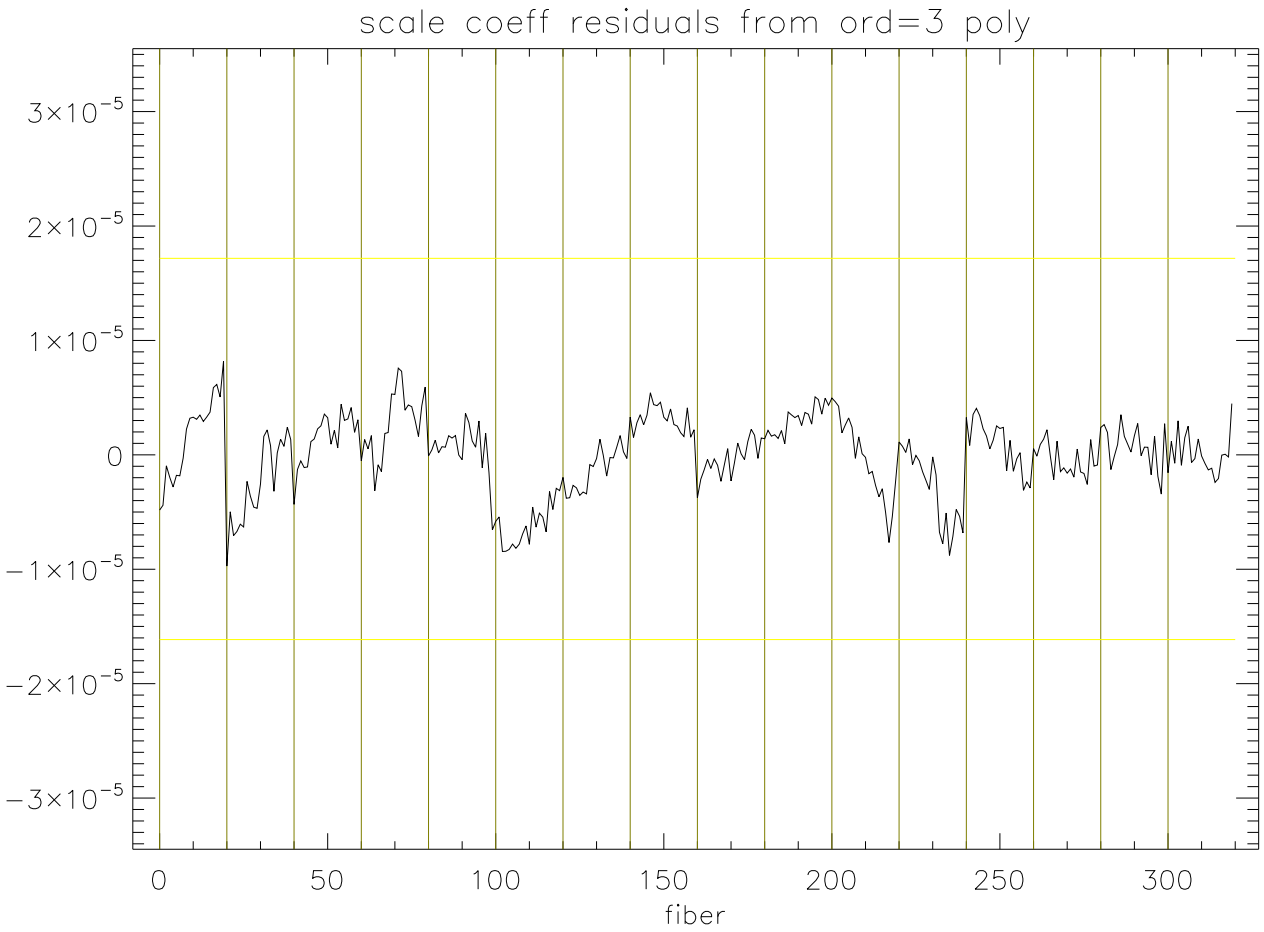

PLATE=0872 MJD=52339 sdR-b2-00013703.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 14.04 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

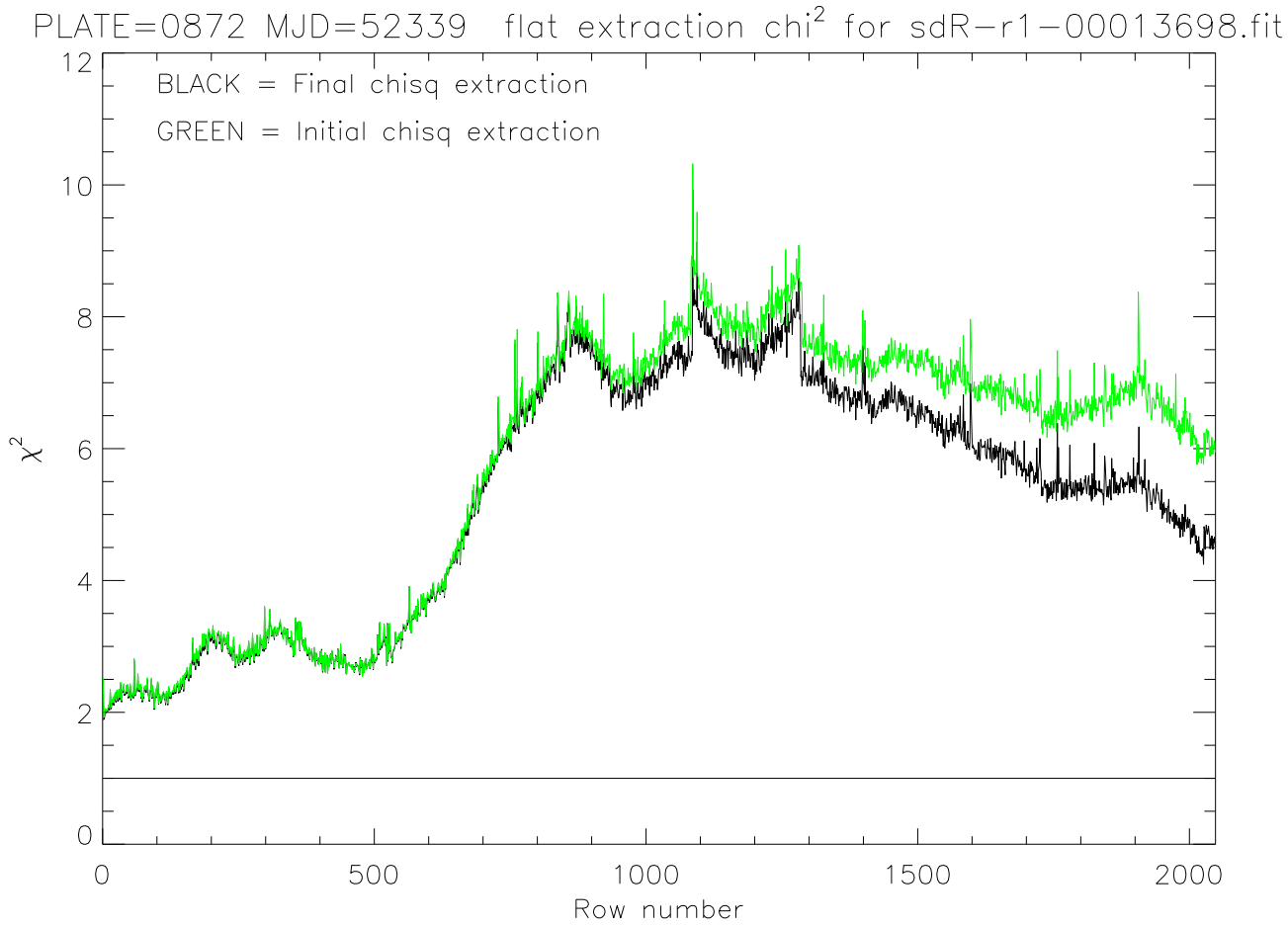

PLATE=0872 MJD=52339 sdR-b2-00013703.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.31 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

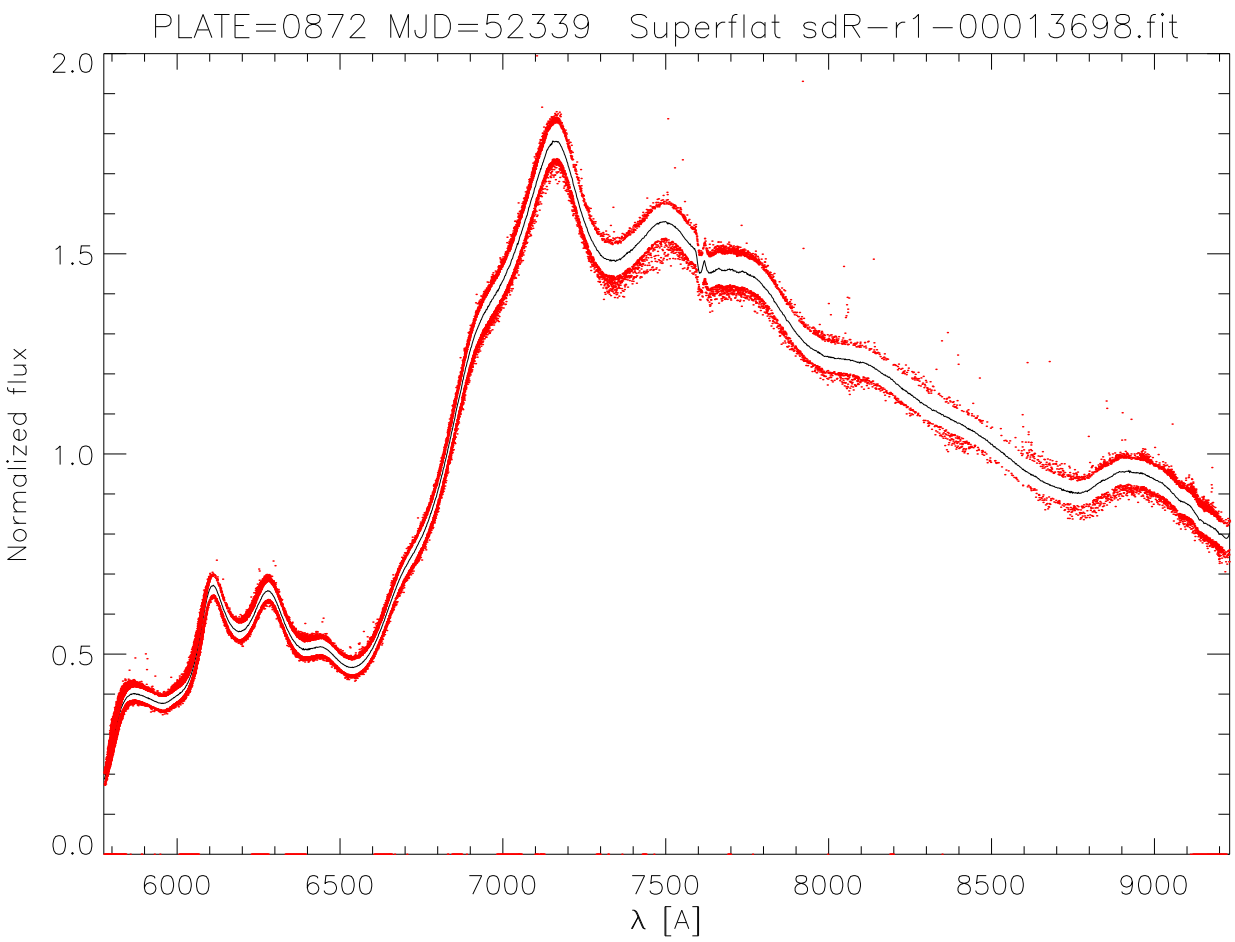

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

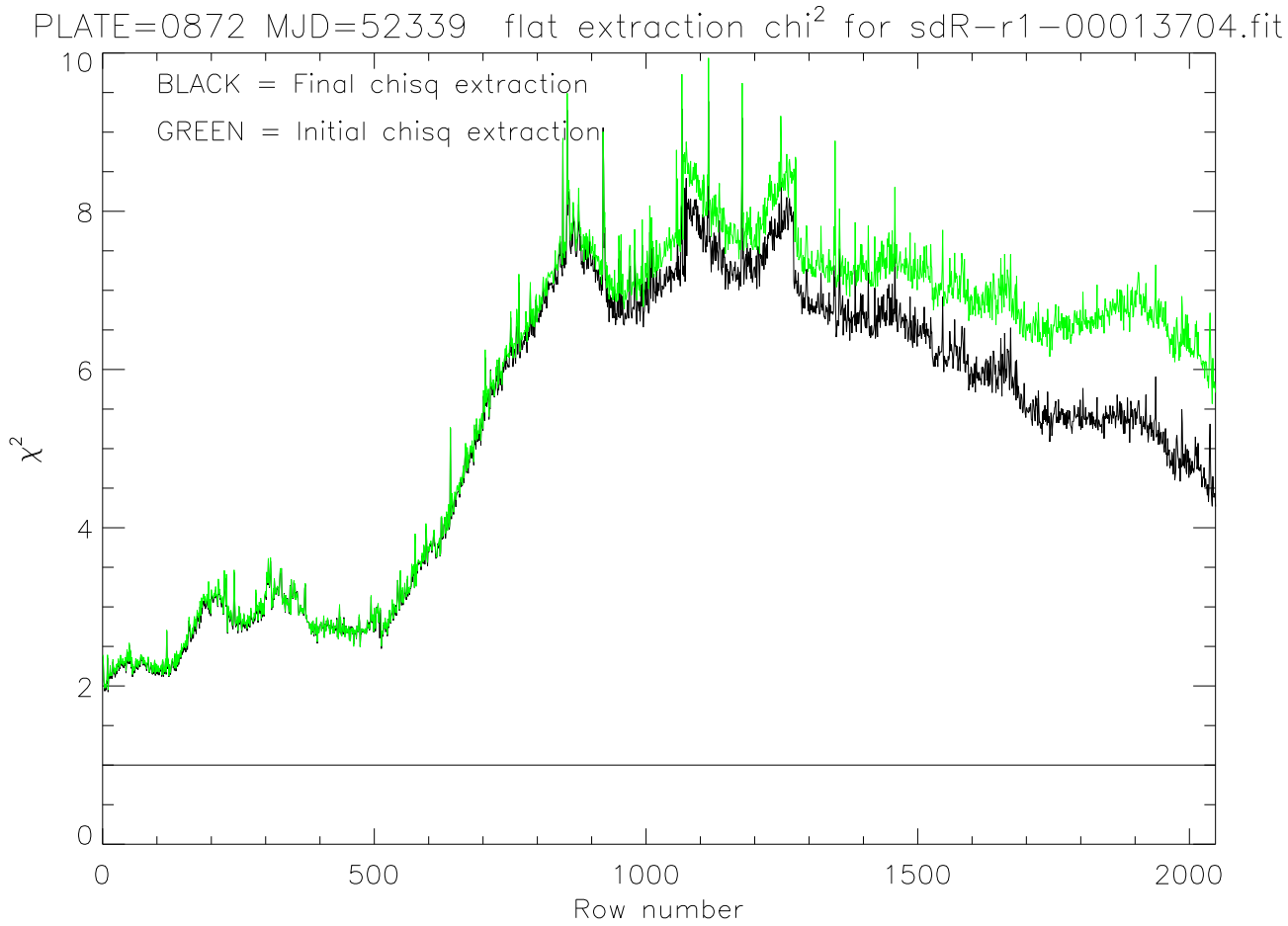

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

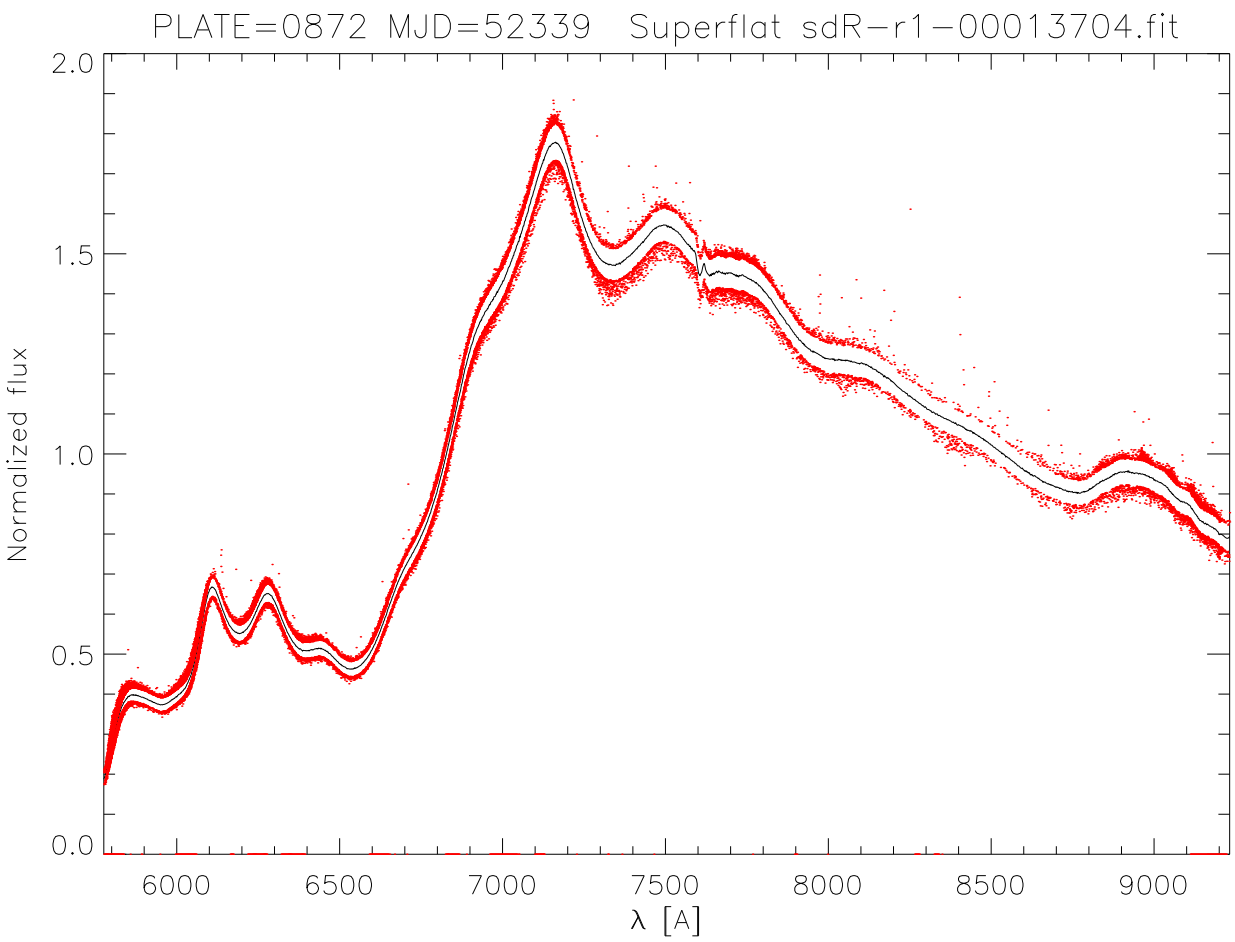

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

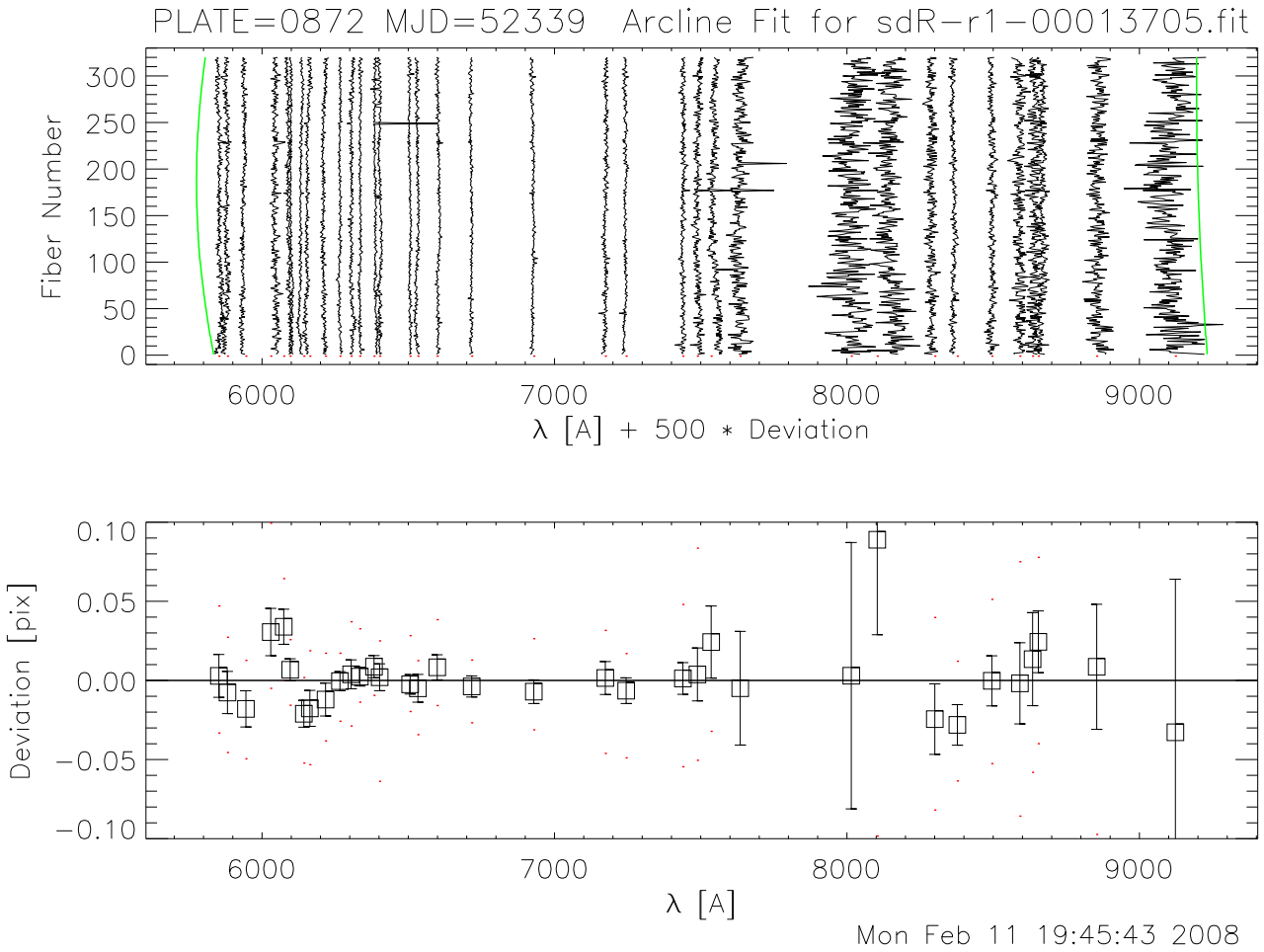

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

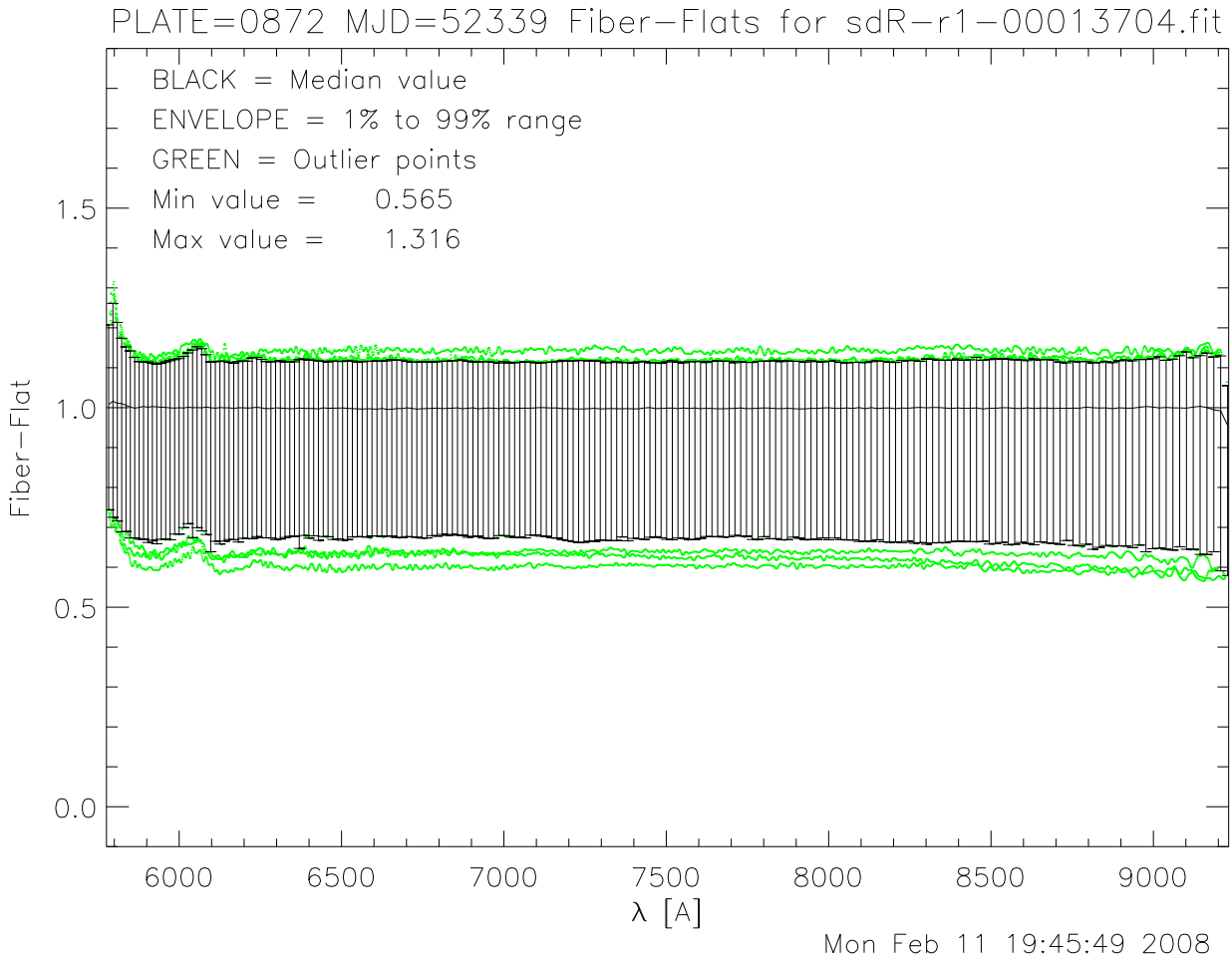

PLATE=0872 MJD=52339 flat extraction chi^2 for sdR−r1−00013698.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

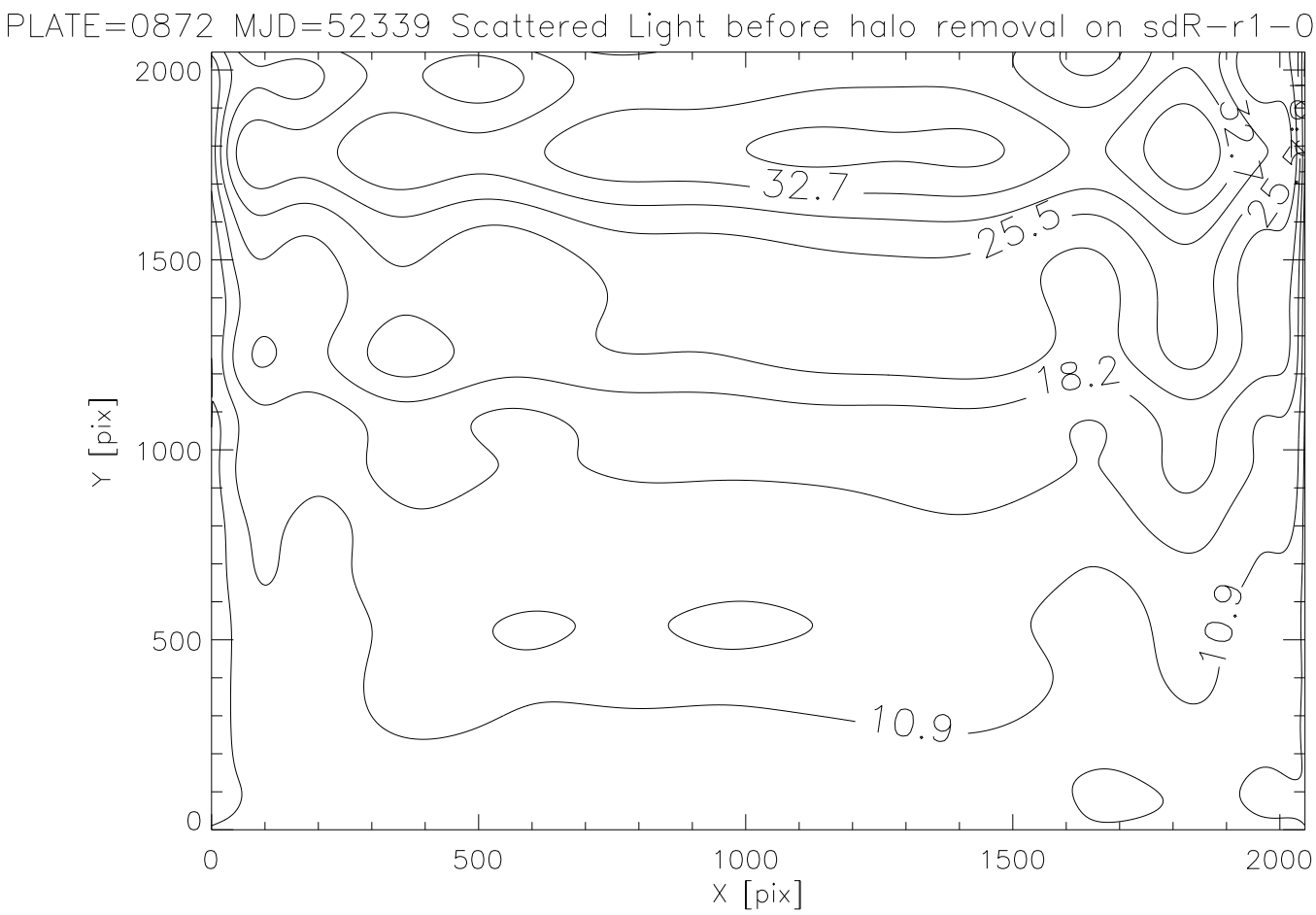

PLATE=0872 MJD=52339 Superflat sdR-r1-00013698.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

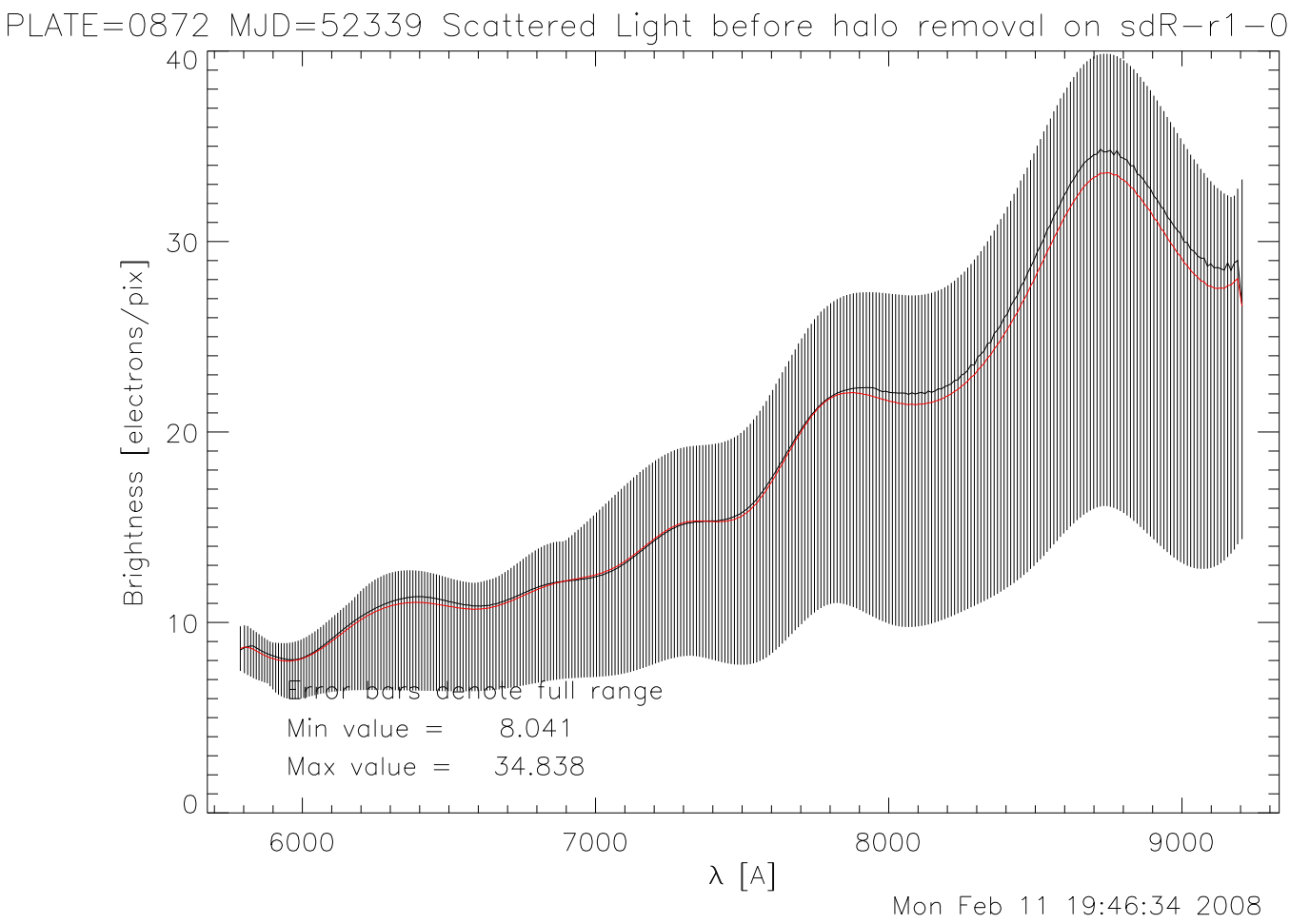

PLATE=0872 MJD=52339 flat extraction chi^2 for sdR−r1−00013704.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

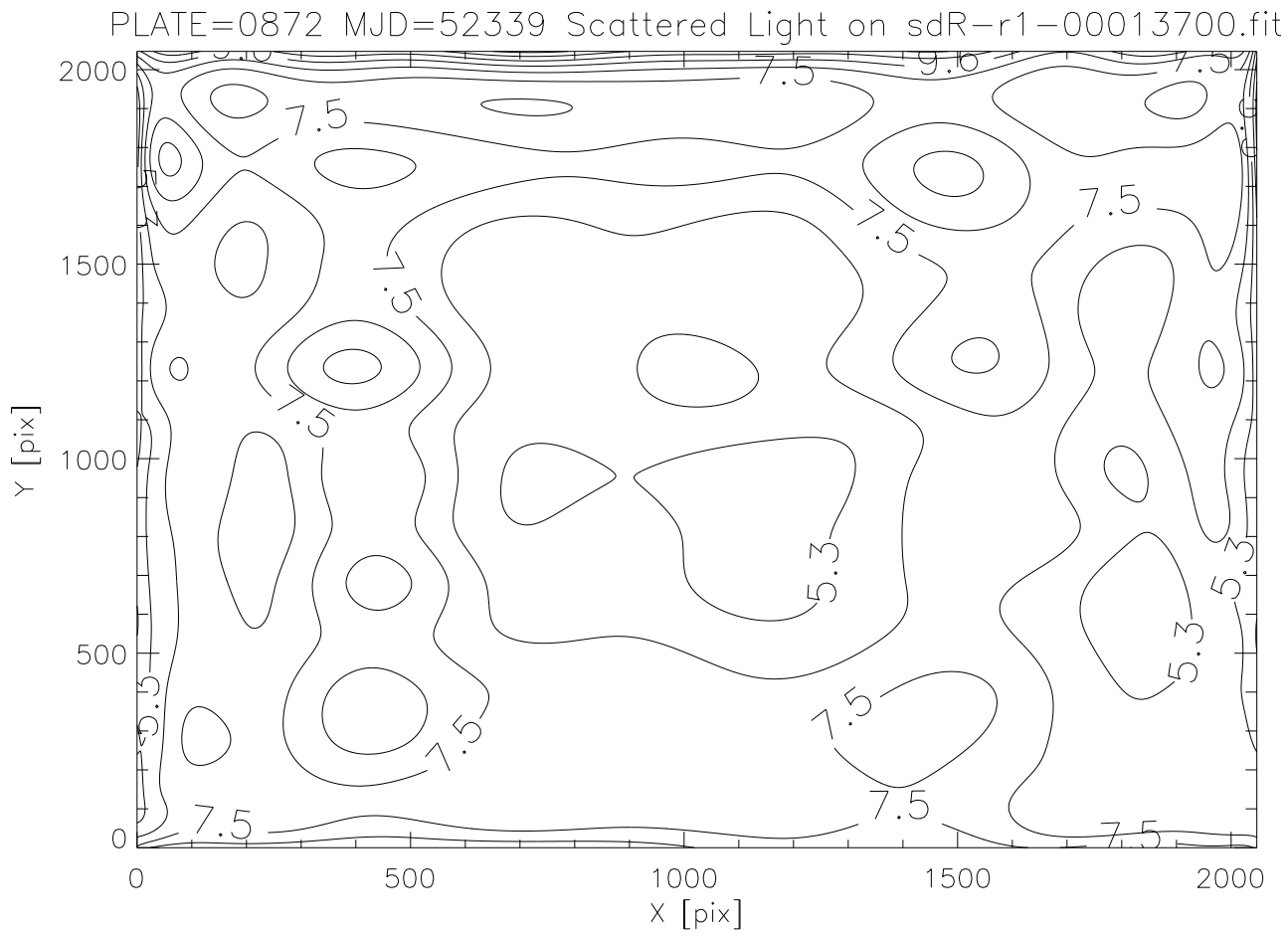

PLATE=0872 MJD=52339 Superflat sdR-r1-00013704.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

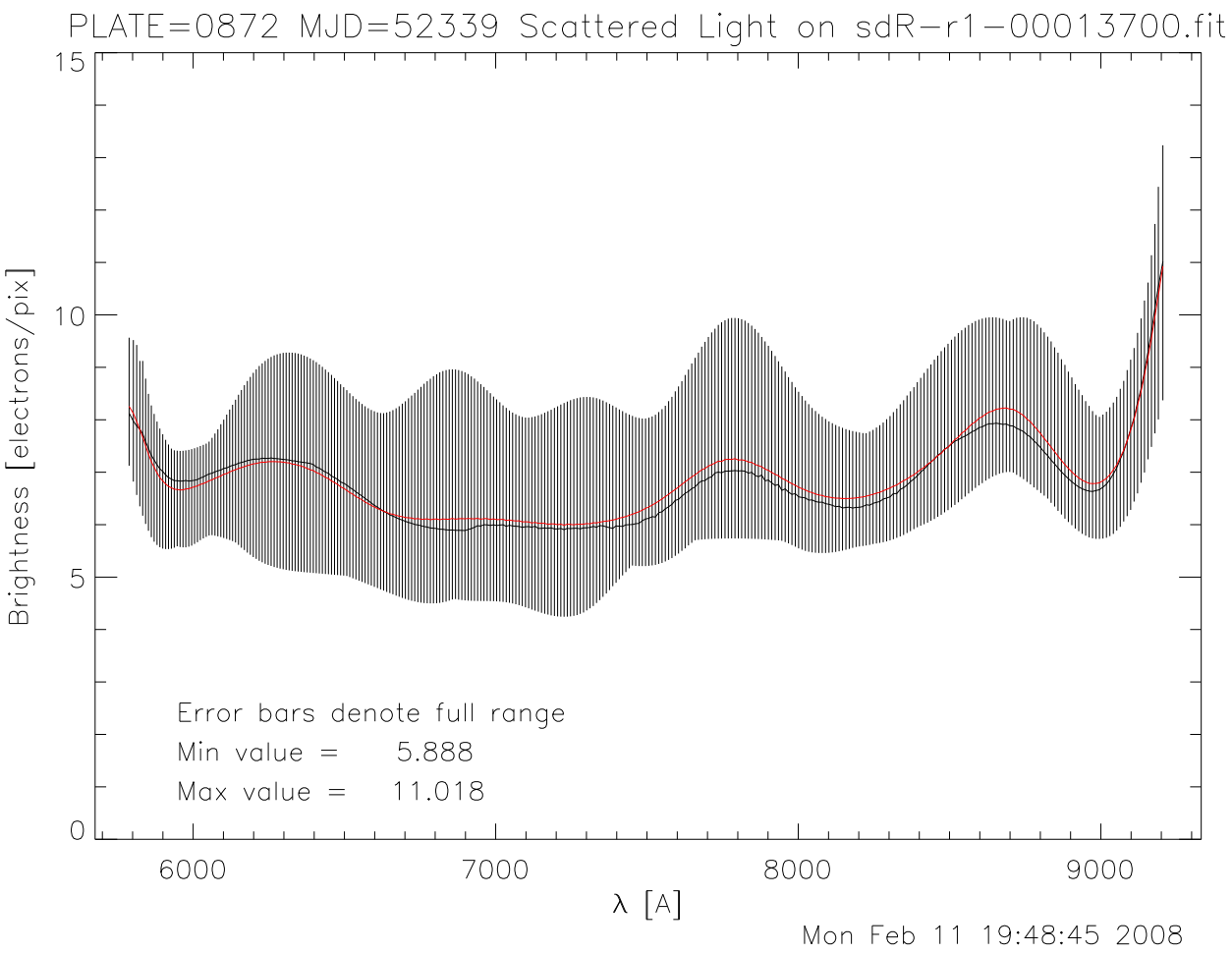

PLATE=0872 MJD=52339 Arcline Fit for sdR-r1-00013705.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 11 19:45:43 2008

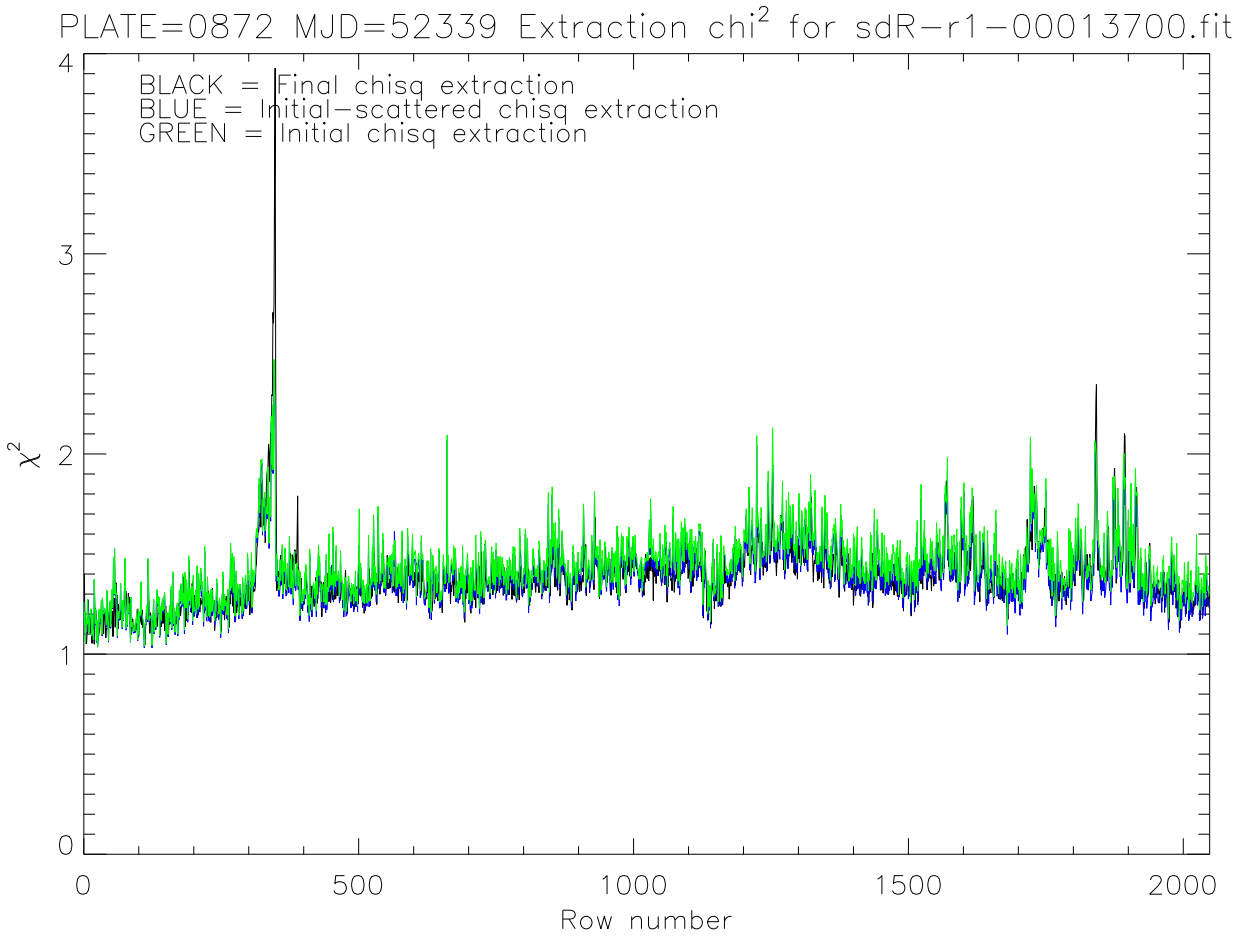

PLATE=0872 MJD=52339 Fiber-Flats for sdR-r1-00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.565
Max value = 1.316
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 19:45:49 2008

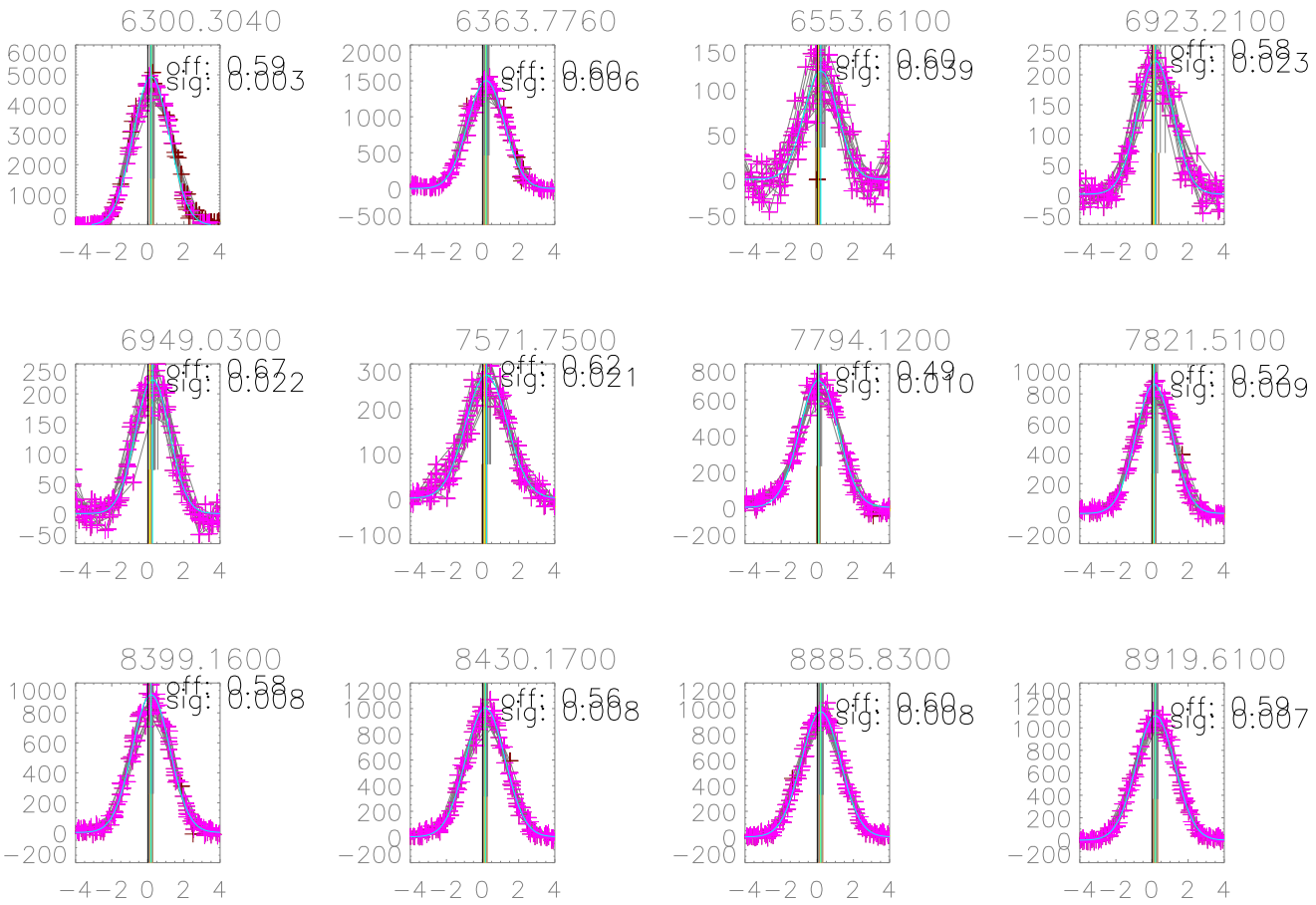

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r1-00013700.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
32.7
25.5
18.2
10.9
10.9
25.5
32.7

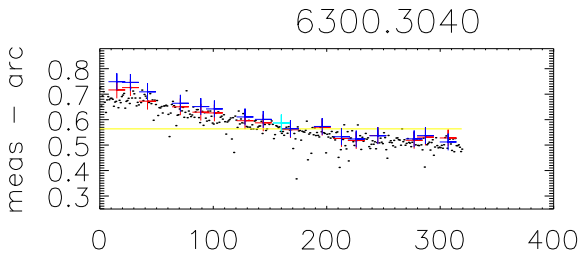

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r1-00013700.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.041
Max value = 34.838
Mon Feb 11 19:46:34 2008

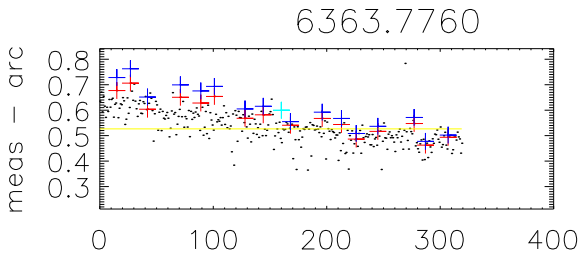

PLATE=0872 MJD=52339 Scattered Light on sdR−r1−00013700.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.5
5.3

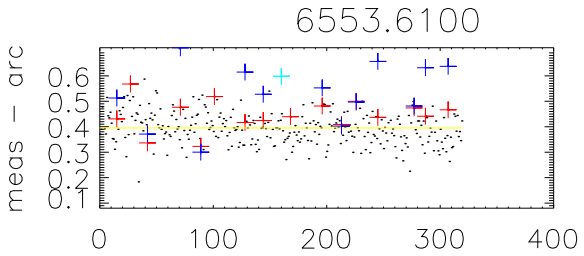

PLATE=0872 MJD=52339 Scattered Light on sdR-r1-00013700.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.888
Max value = 11.018
Mon Feb 11 19:48:45 2008

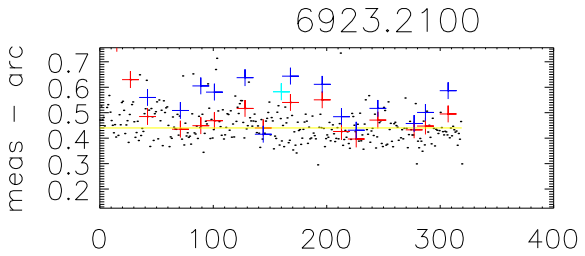

PLATE=0872 MJD=52339 Extraction chi^2 for sdR−r1−00013700.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

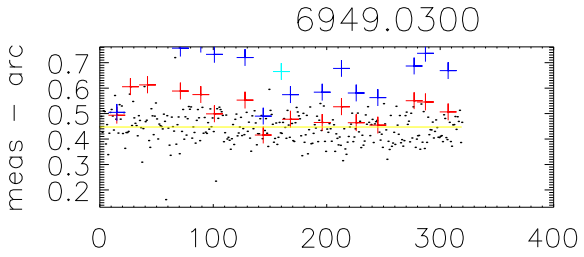

6300.3040
off: 0.59
sig: 0.003
6363.7760
off: 0.60
sig: 0.006
6553.6100
off: 0.60
sig: 0.039
6923.2100
off: 0.58
sig: 0.023
6949.0300
off: 0.67
sig: 0.022
7571.7500
off: 0.62
sig: 0.021
7794.1200
off: 0.49
sig: 0.010
7821.5100
off: 0.52
sig: 0.009
8399.1600
off: 0.58
sig: 0.008
8430.1700
off: 0.56
sig: 0.008
8885.8300
off: 0.60
sig: 0.008
8919.6100
off: 0.59
sig: 0.007

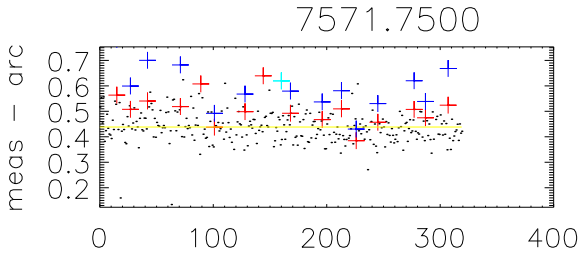

6300.3040
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

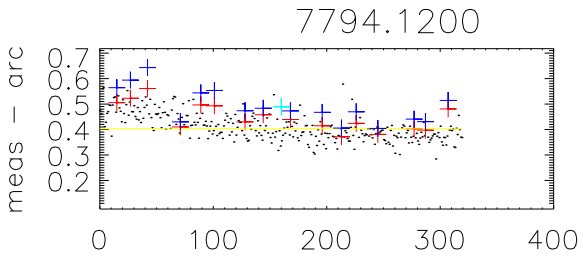

6363.7760
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

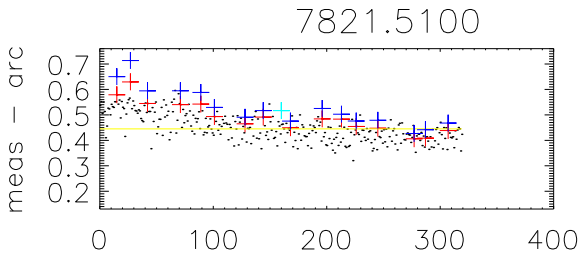

6553.6100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

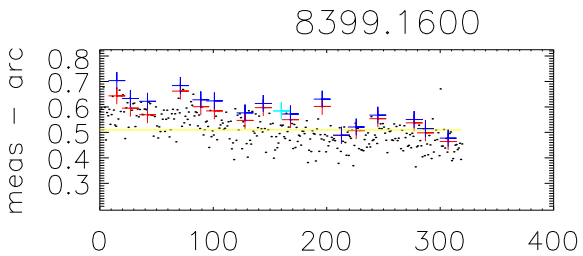

6923.2100
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

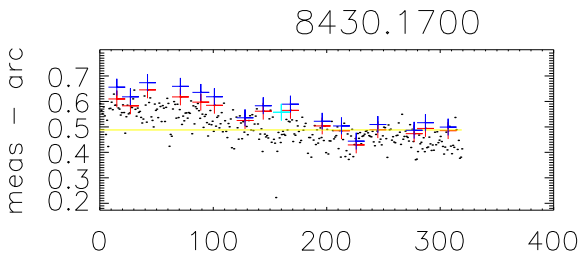

6949.0300
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

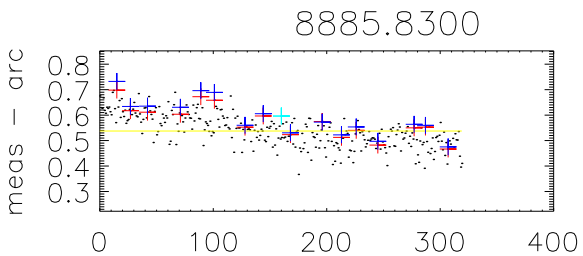

7571.7500
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

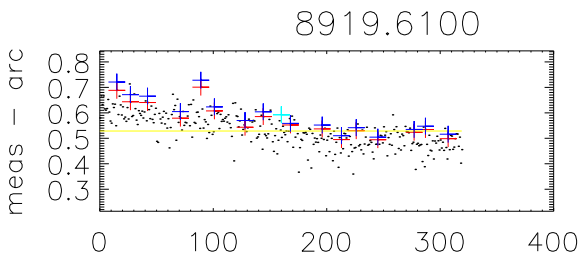

7794.1200
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

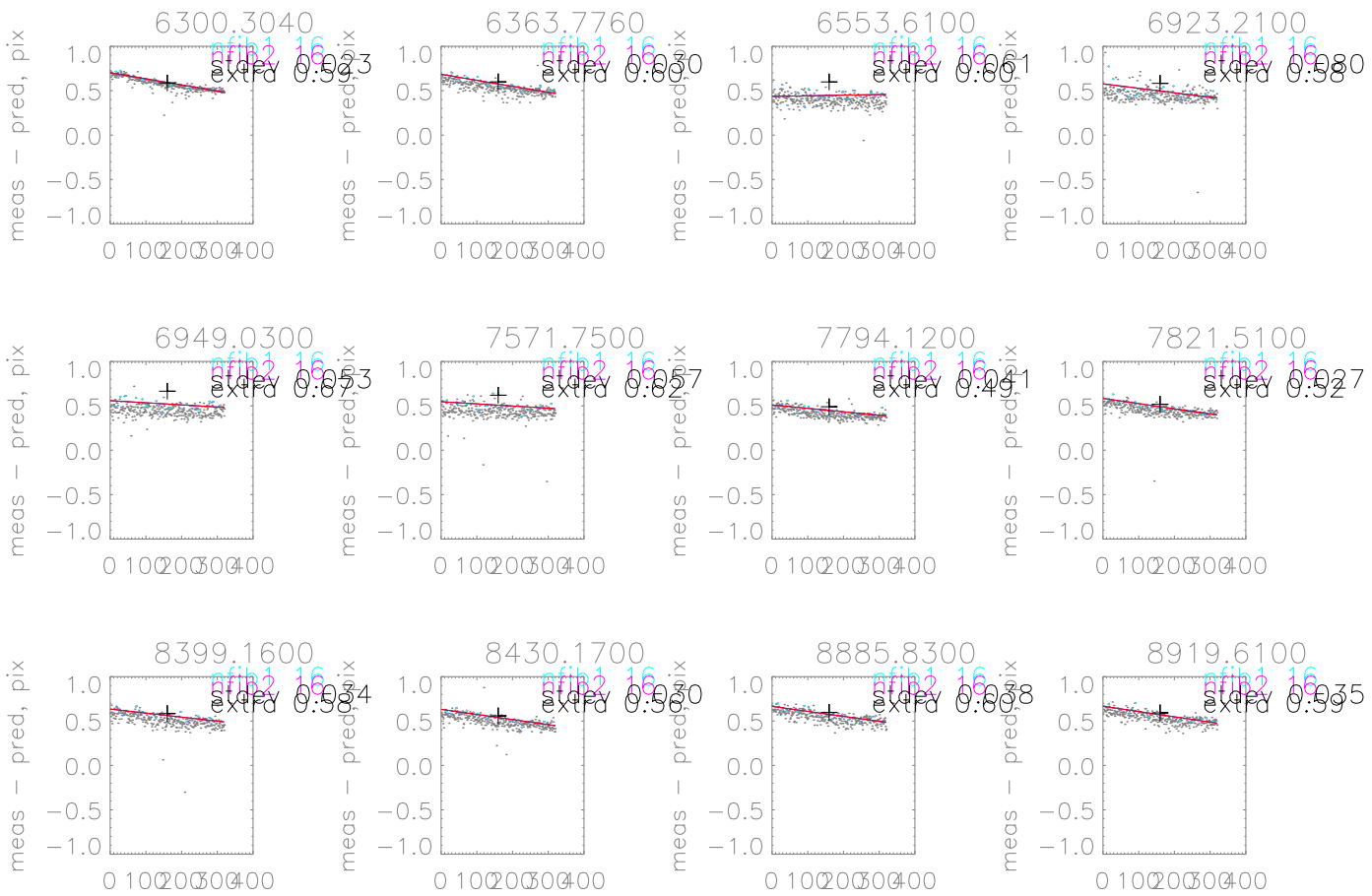

7821.5100
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

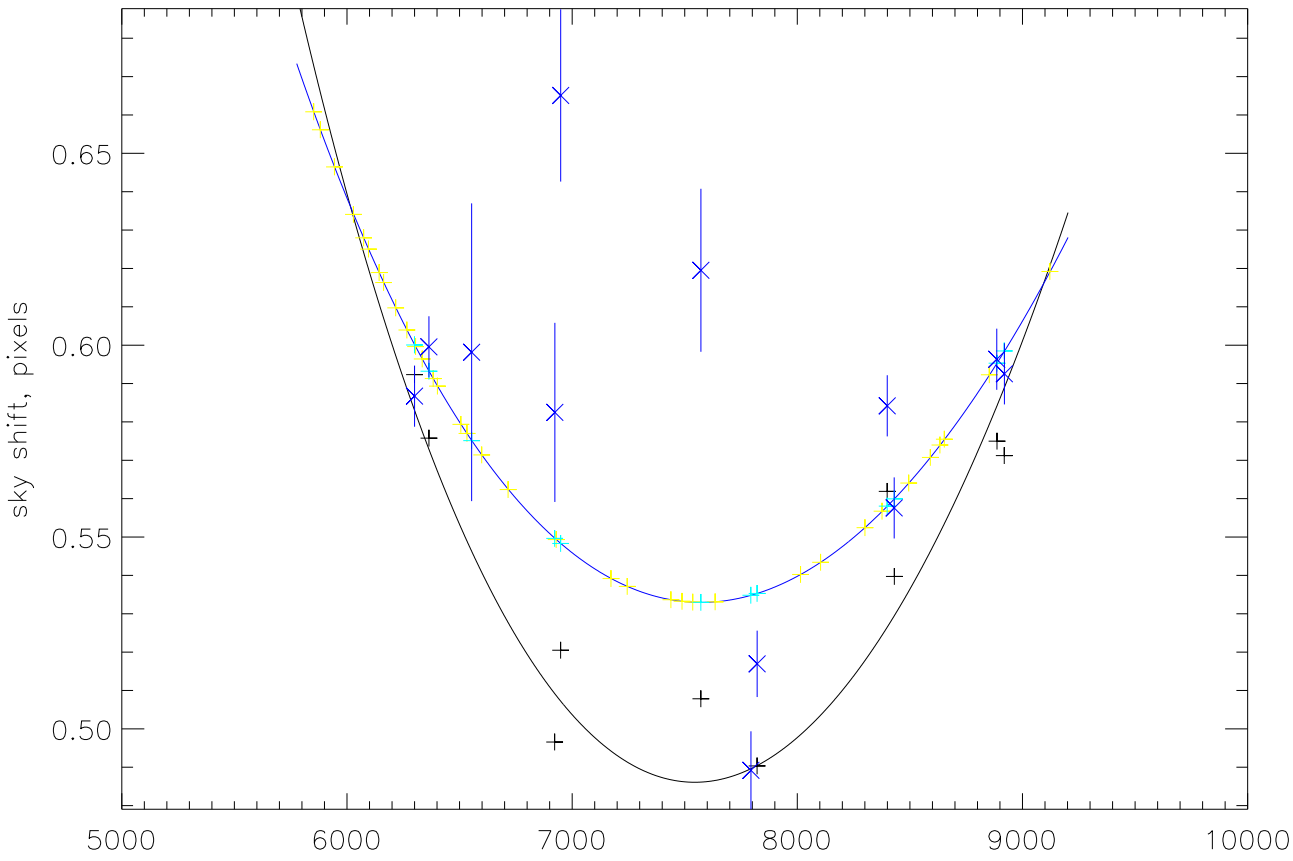

8399.1600
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

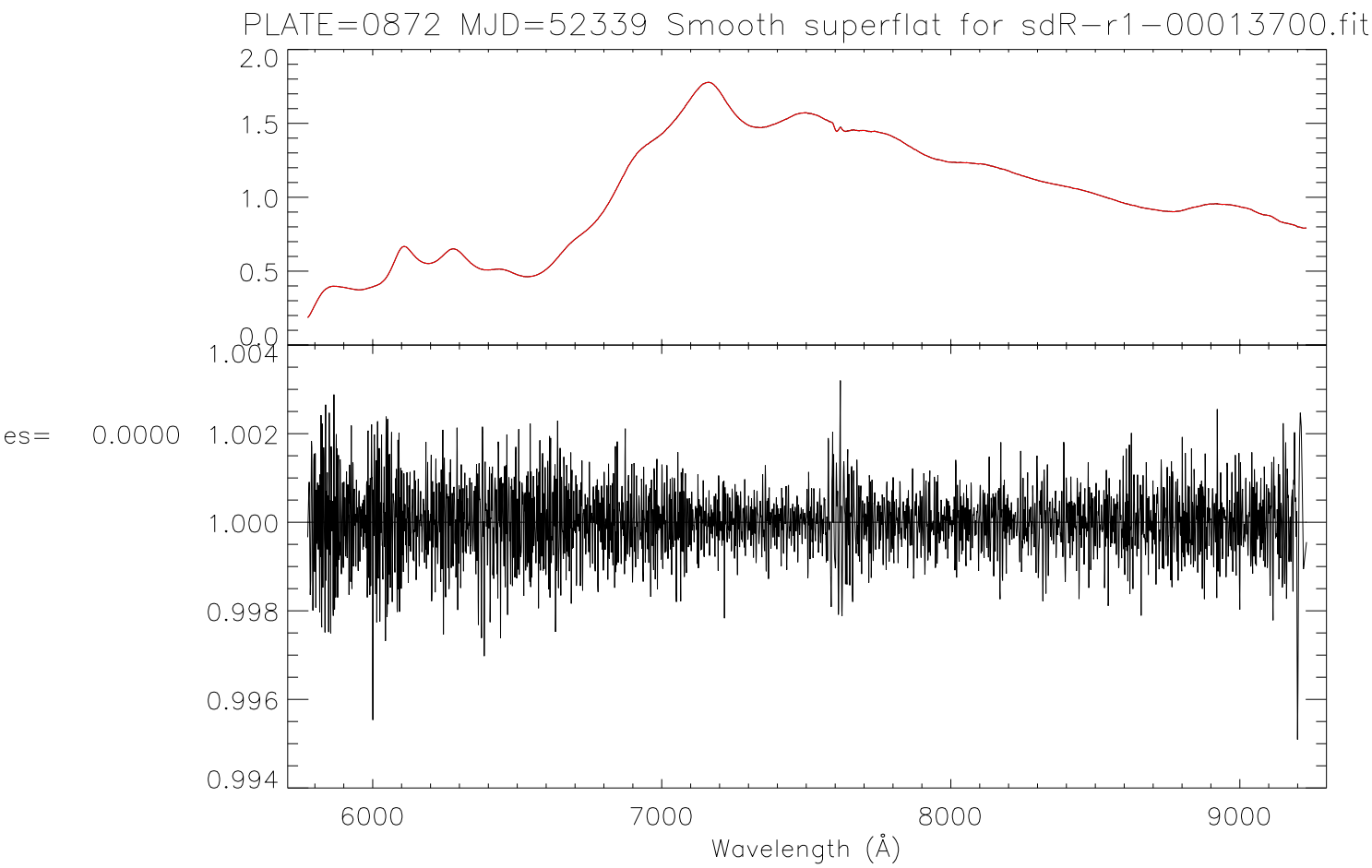

8430.1700
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400


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

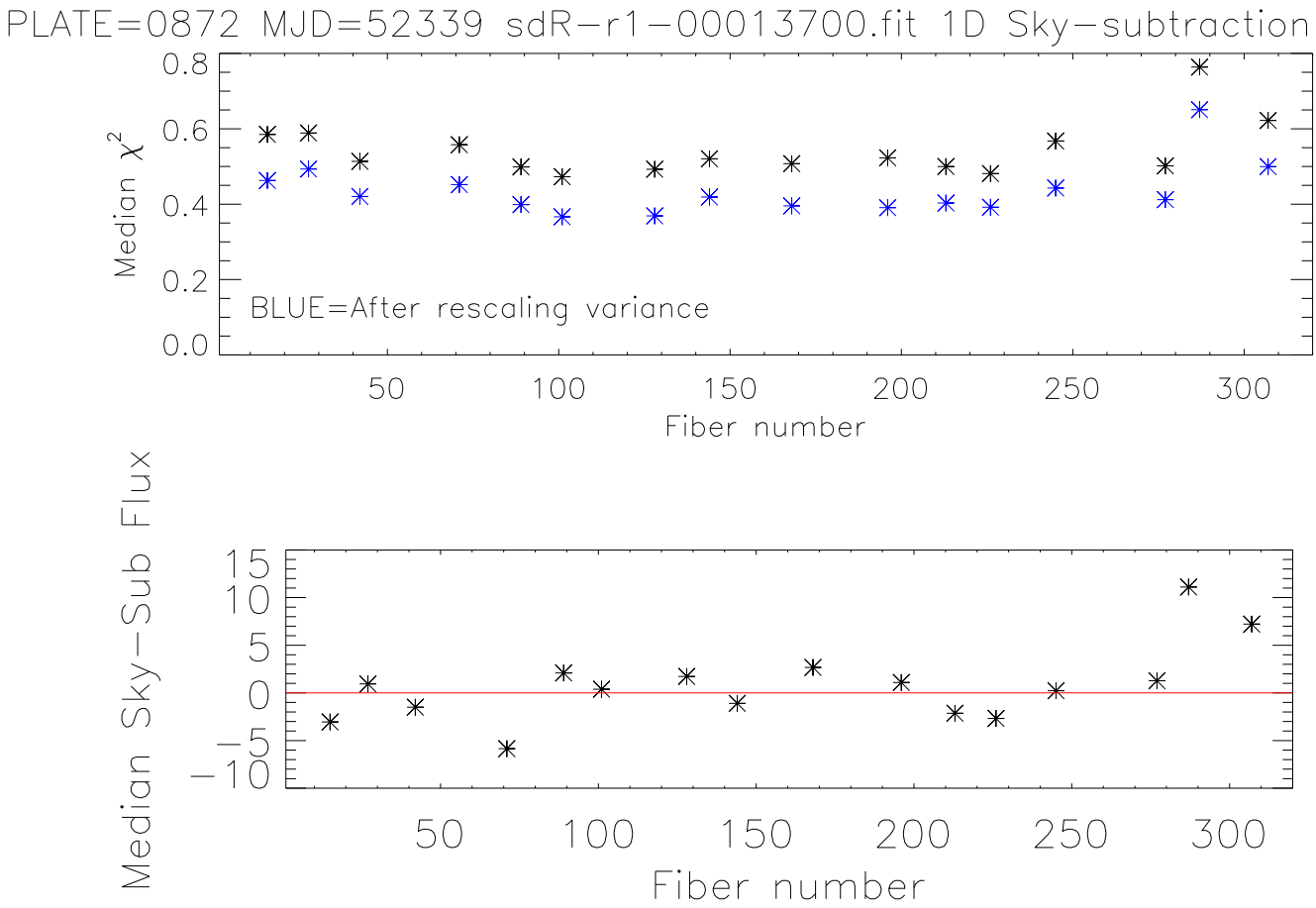

8919.6100
meas − arc
0.8
0.7
0.6
0.5
0.4
0.3
0
100
200
300
400

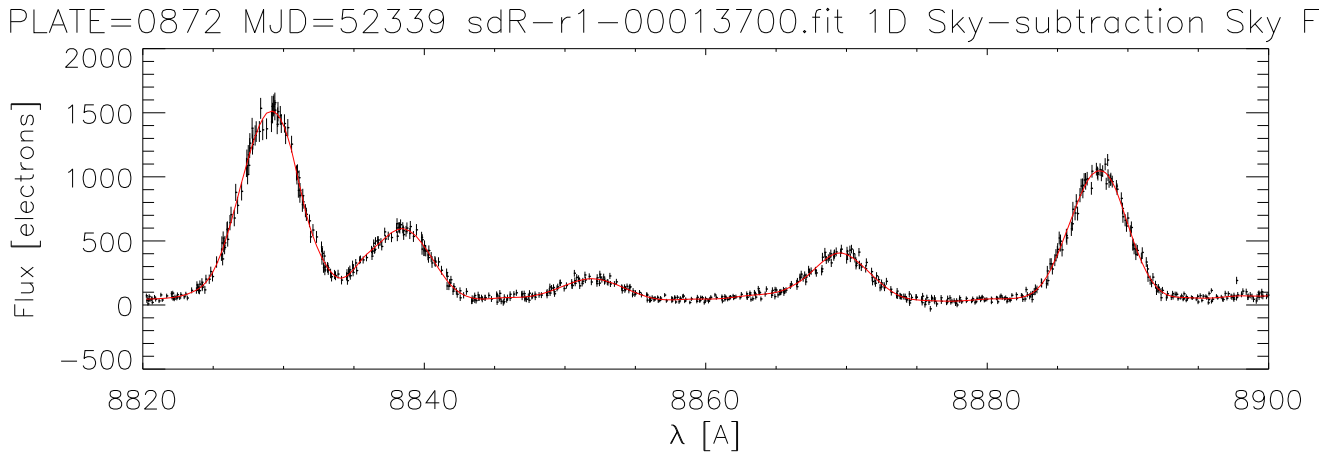

6300.3040
stdev 0.023
extra 0.56
6363.7760
stdev 0.030
extra 0.60
6553.6100
stdev 0.061
extra 0.60
6923.2100
stdev 0.080
extra 0.58
6949.0300
stdev 0.053
extra 0.67
7571.7500
stdev 0.057
extra 0.62
7794.1200
stdev 0.041
extra 0.49
7821.5100
stdev 0.027
extra 0.52
8399.1600
stdev 0.034
extra 0.58
8430.1700
stdev 0.030
extra 0.56
8885.8300
stdev 0.038
extra 0.60
8919.6100
stdev 0.035
extra 0.59
meas − pred, pix
mfhd2 16

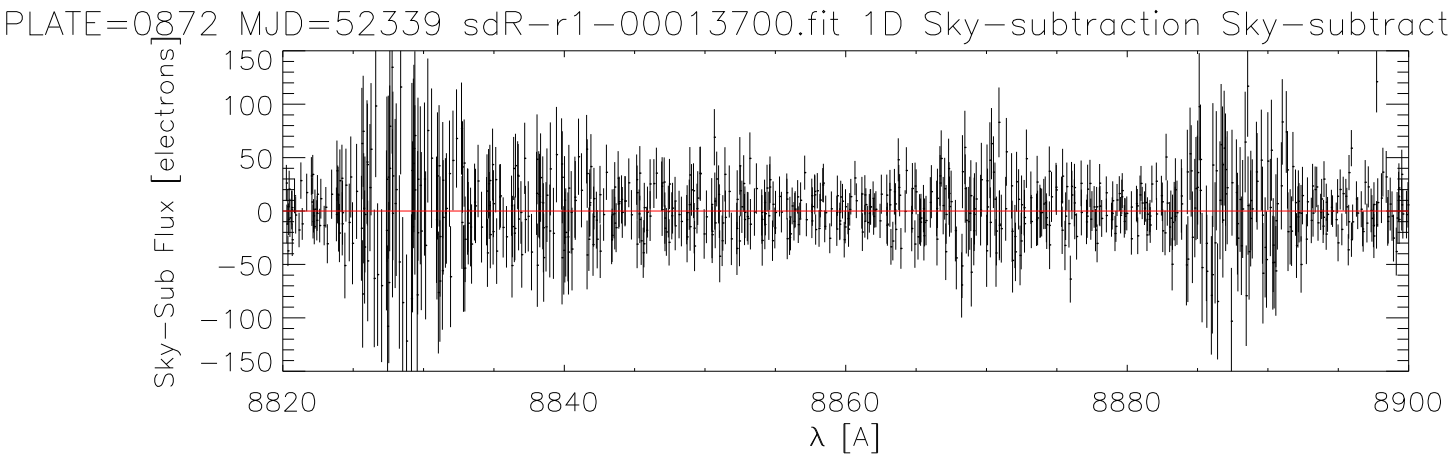

sky shift, pixels
0.65
0.60
0.55
0.50
5000
6000
7000
8000
9000
10000

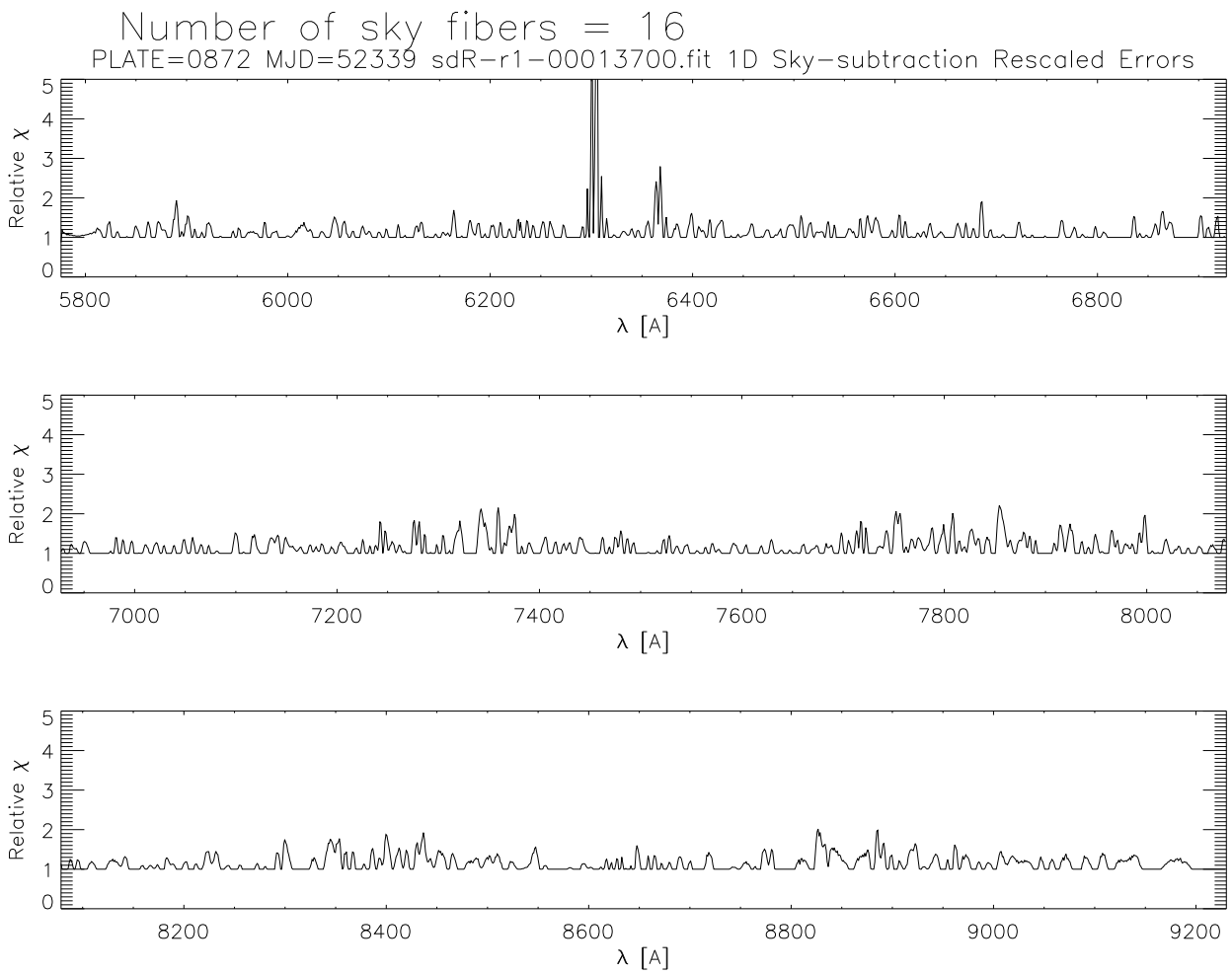

PLATE=0872 MJD=52339 Smooth superflat for sdR-r1-00013700.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

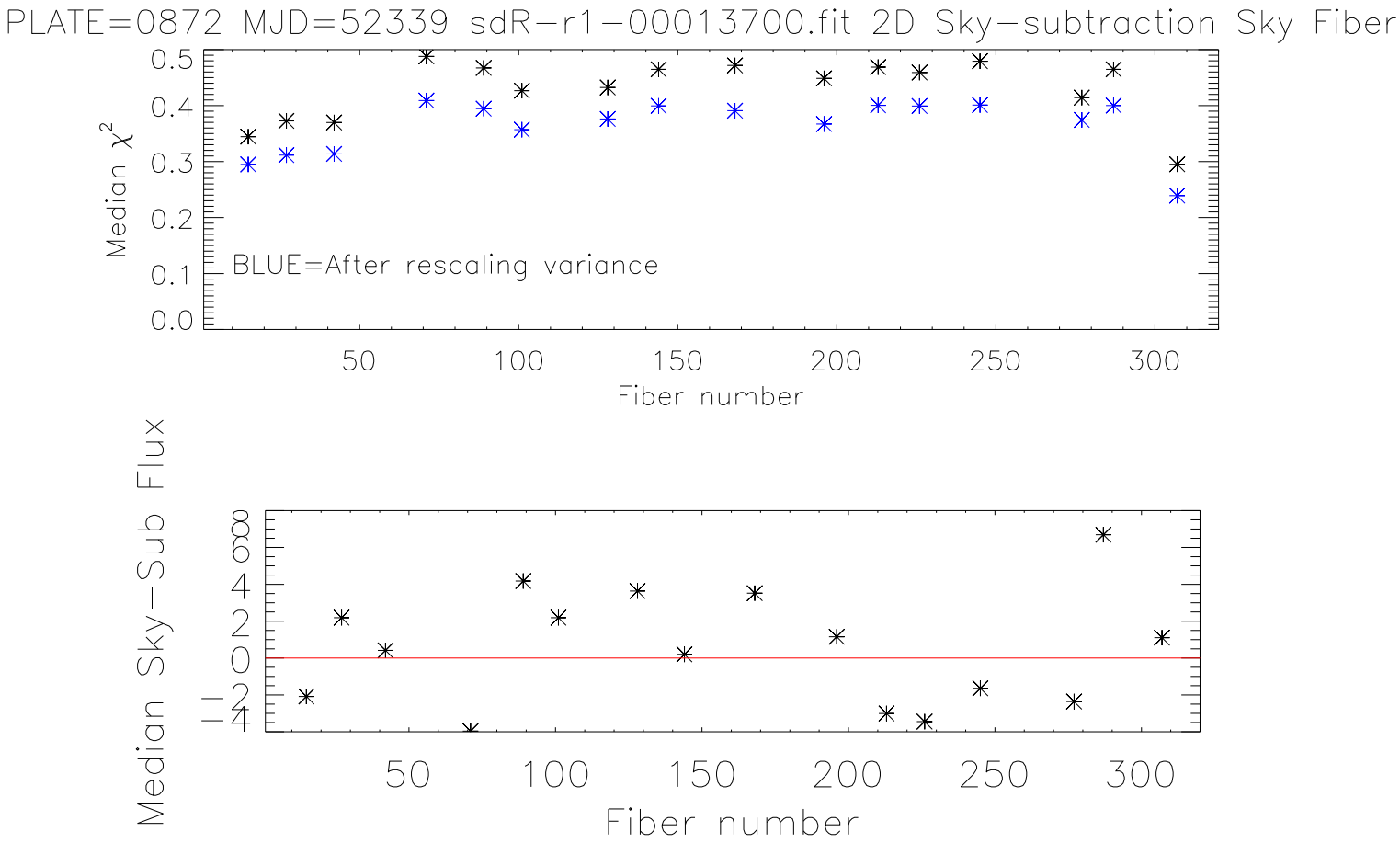
es= 0.0000

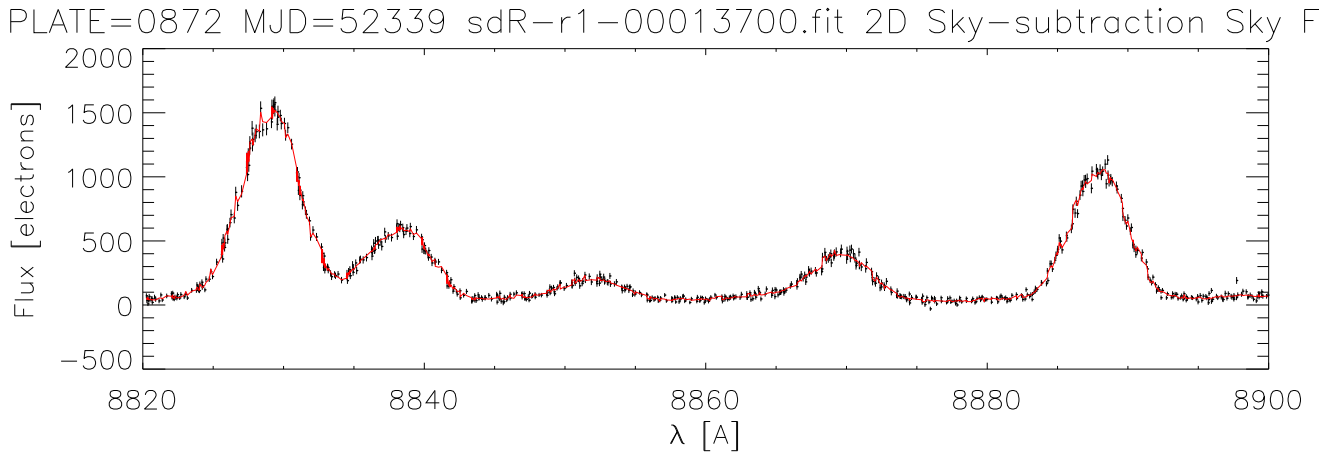

PLATE=0872 MJD=52339 sdR-r1-00013700.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

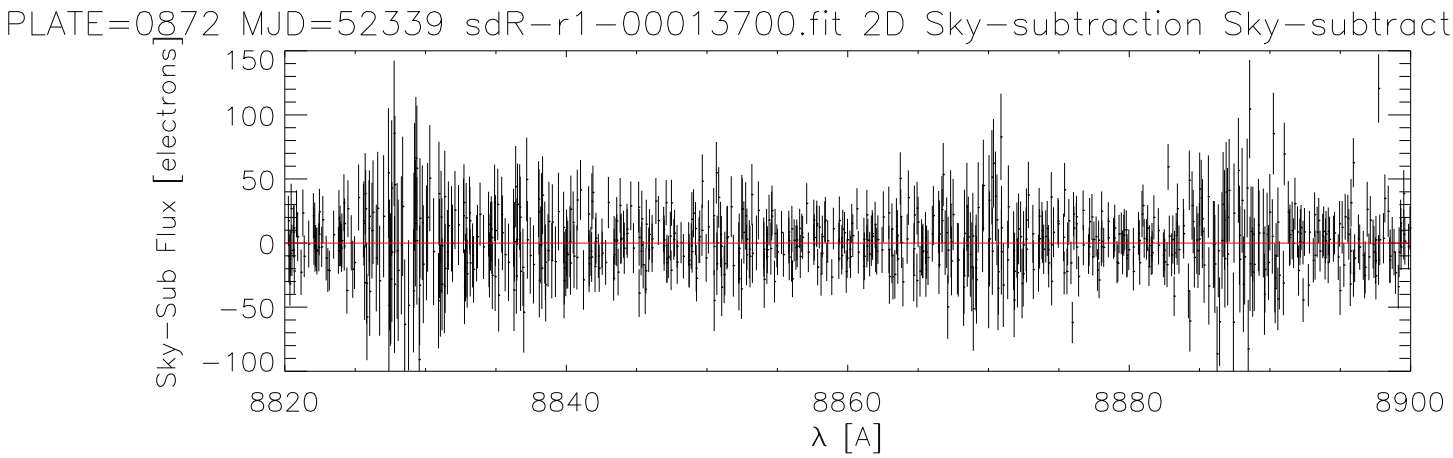

PLATE=0872 MJD=52339 sdR-r1-00013700.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

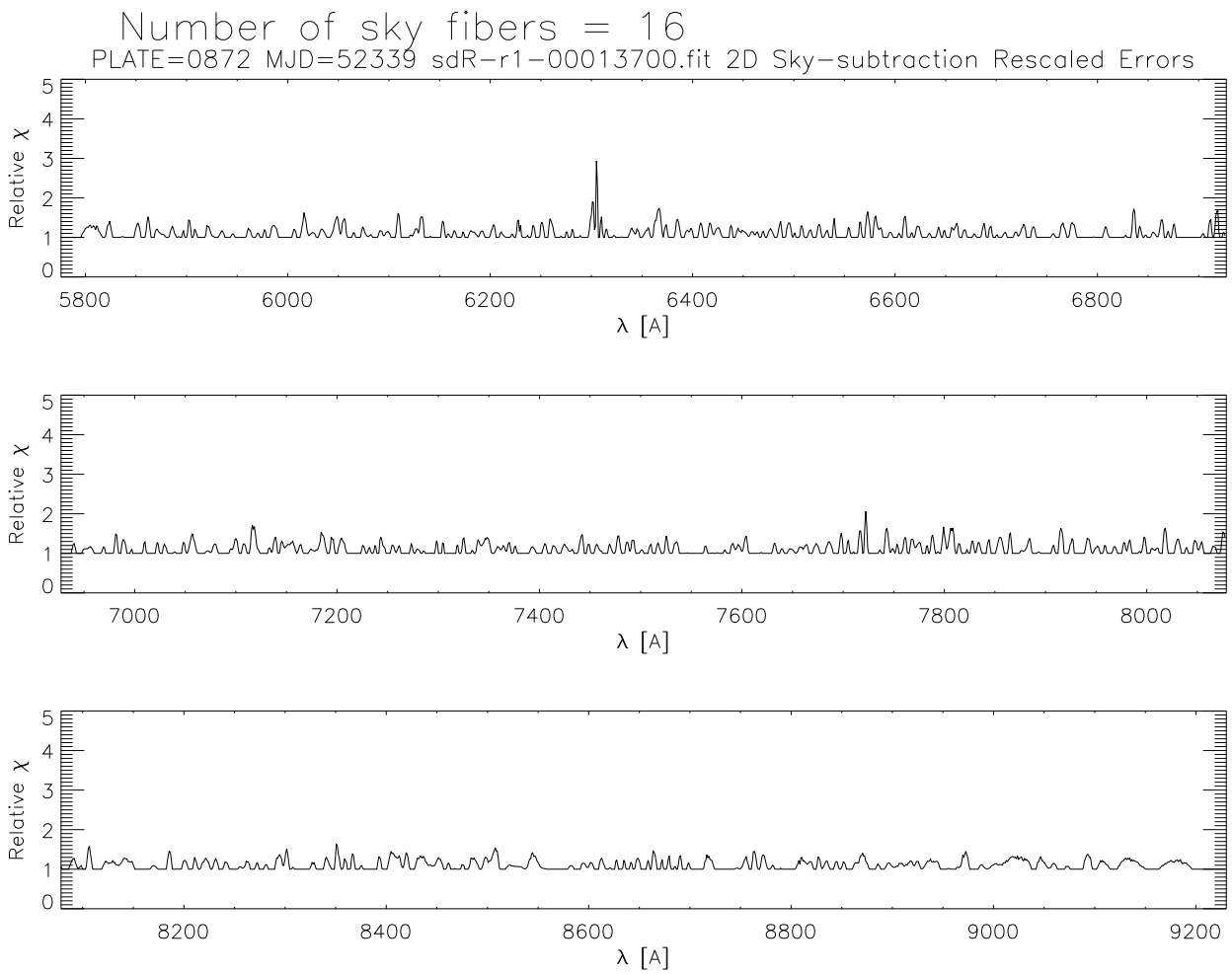

PLATE=0872 MJD=52339 sdR-r1-00013700.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

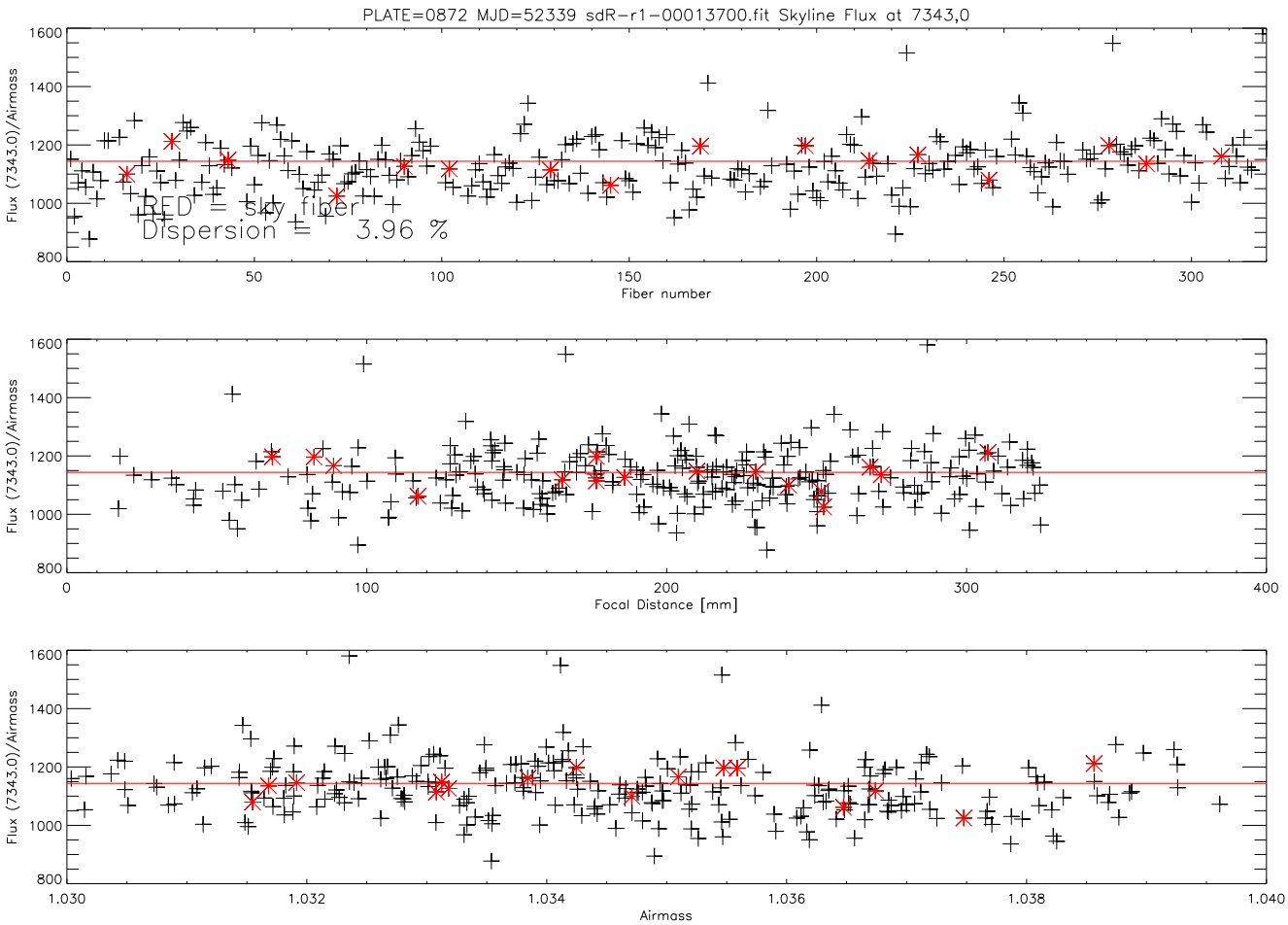

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r1-00013700.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

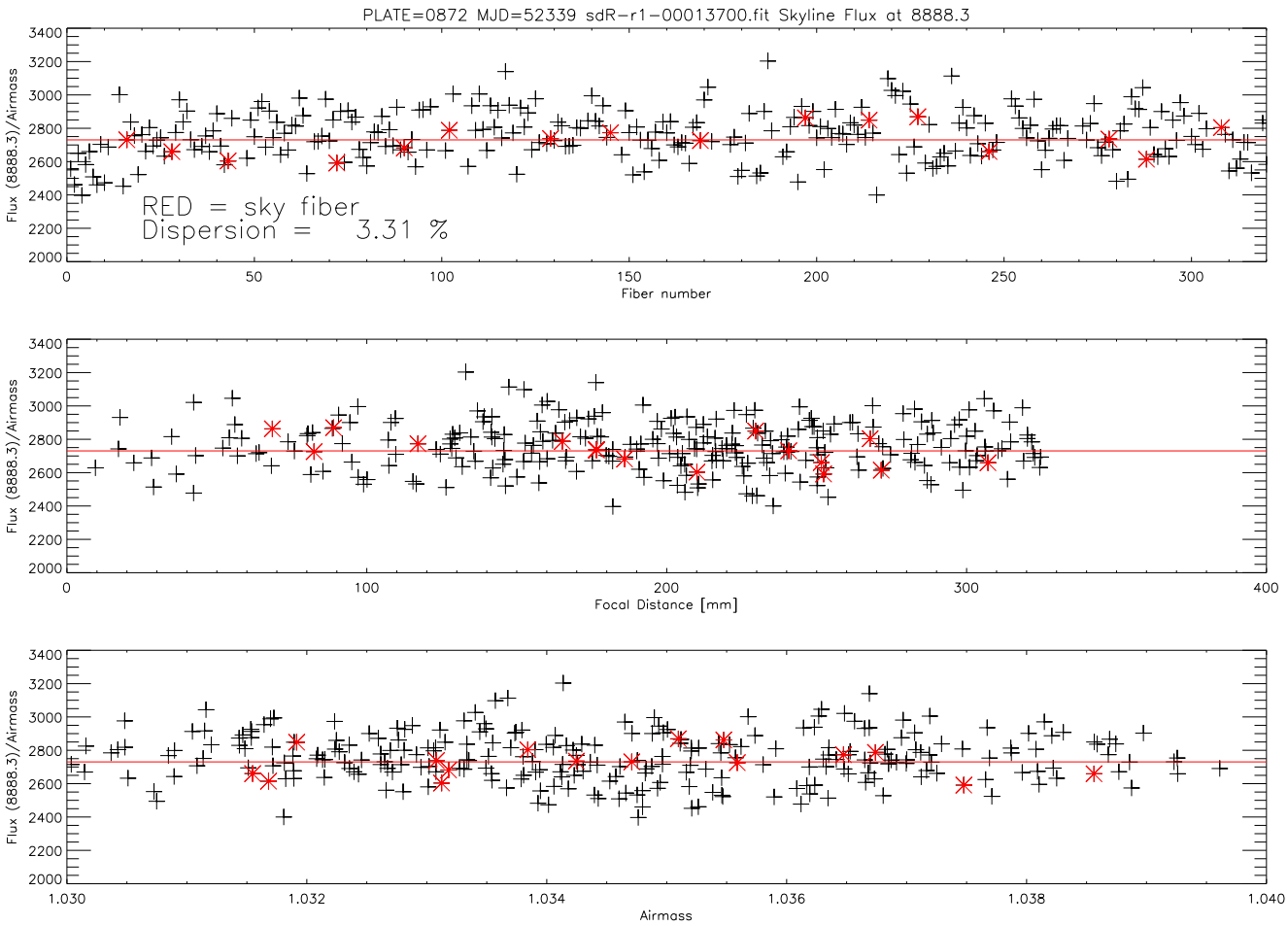

PLATE=0872 MJD=52339 sdR-r1-00013700.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

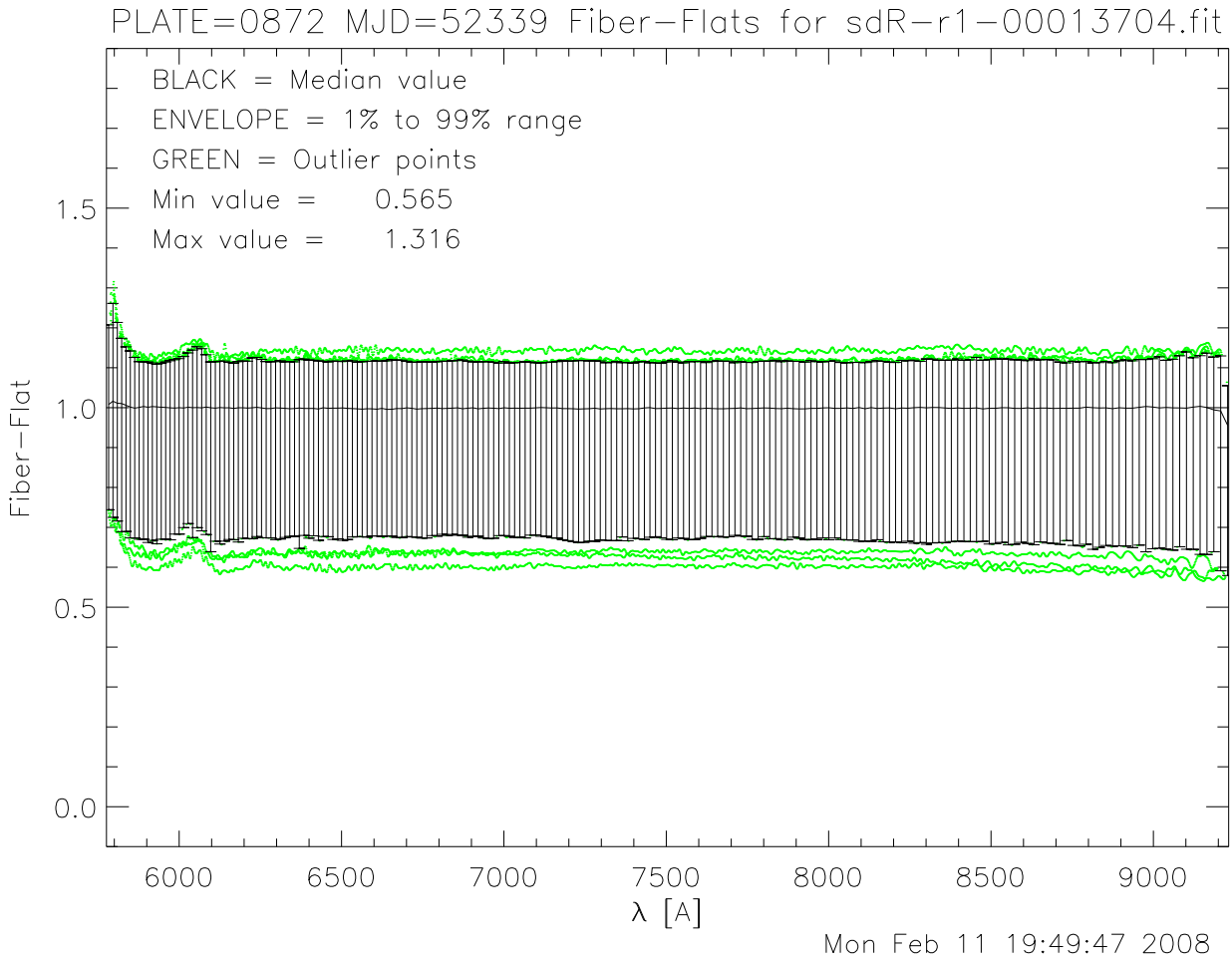

PLATE=0872 MJD=52339 sdR-r1-00013700.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

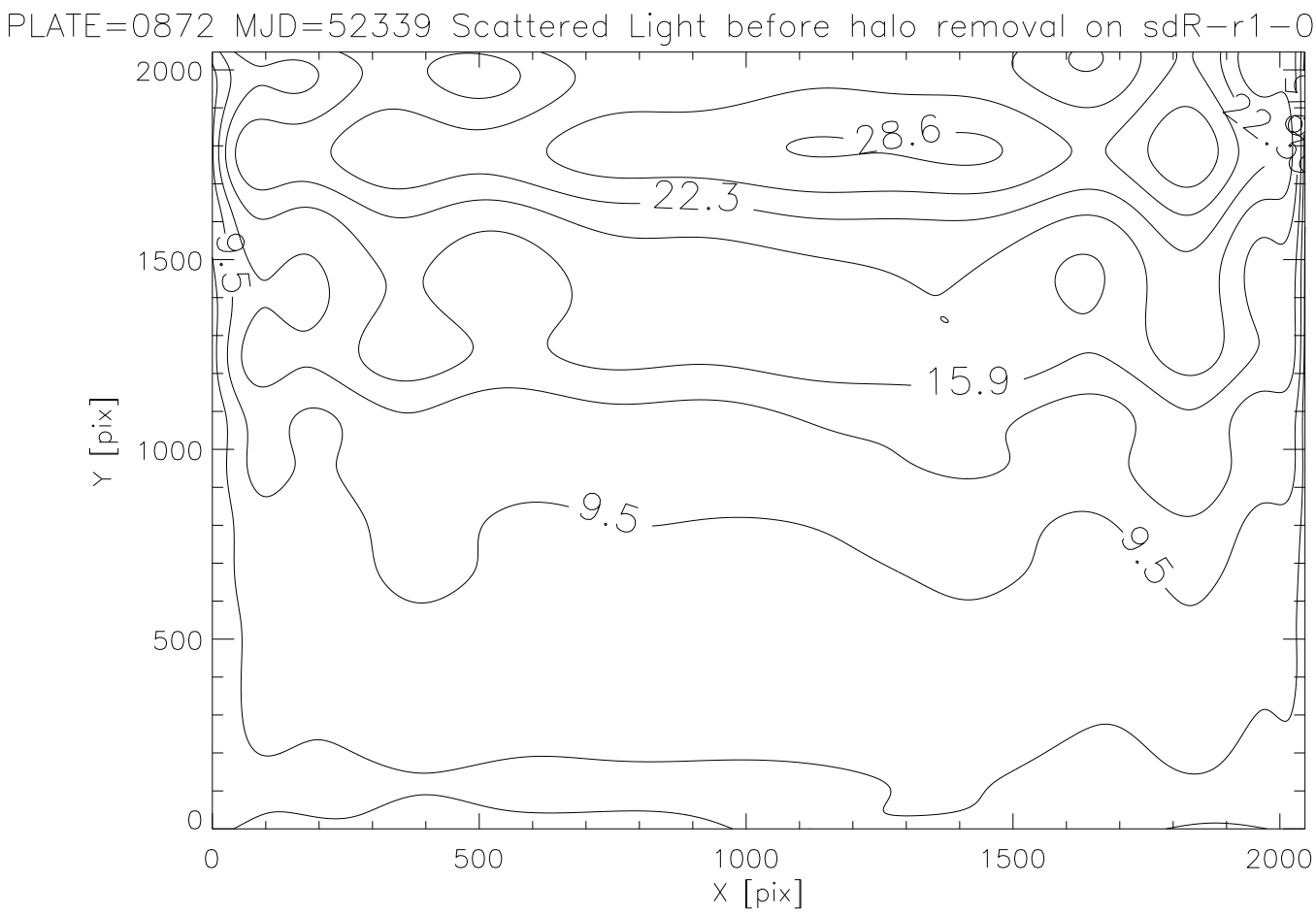

PLATE=0872 MJD=52339 sdR-r1-00013700.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
8820
8840
8860
8880
8900
λ [A]

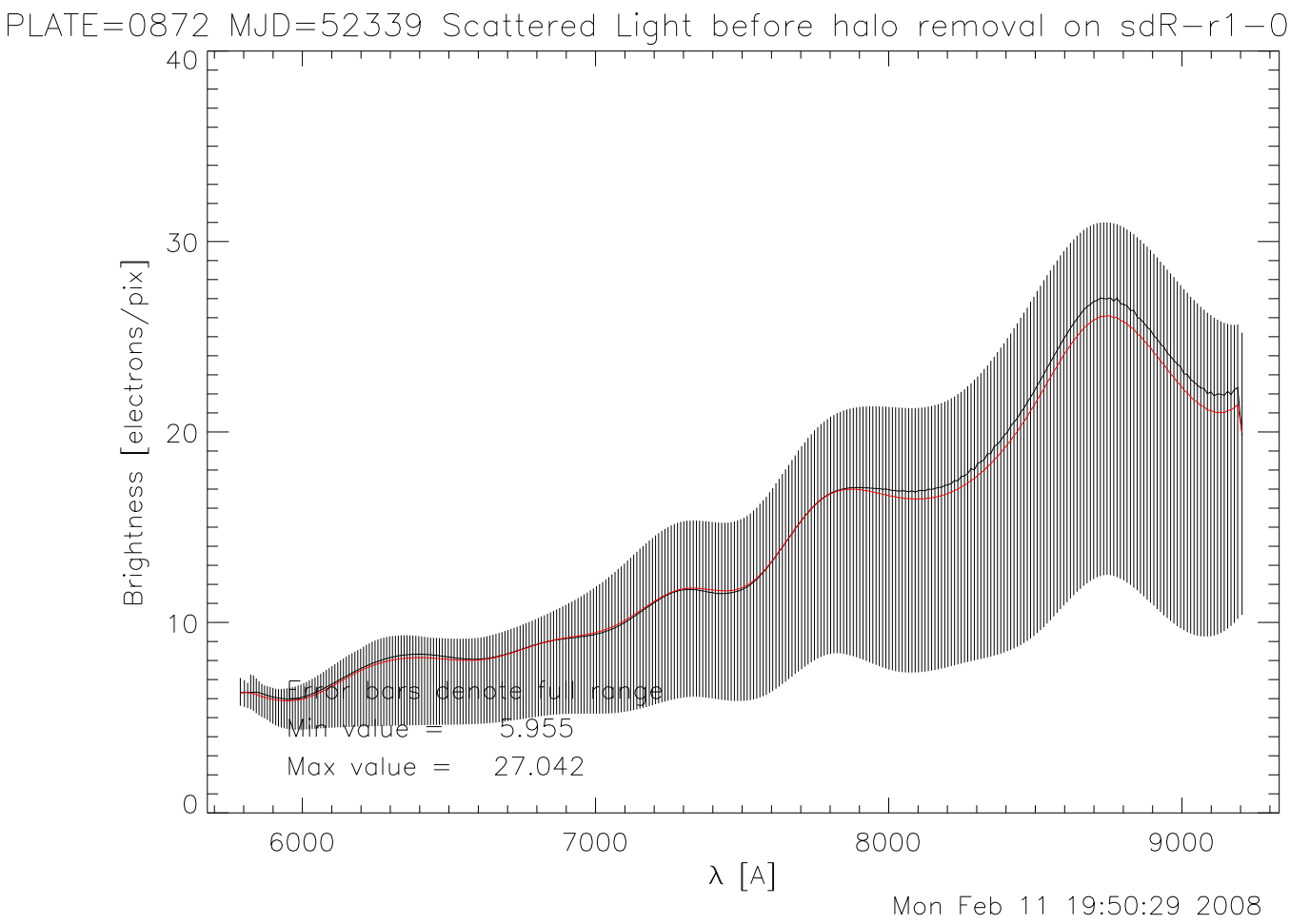

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r1-00013700.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

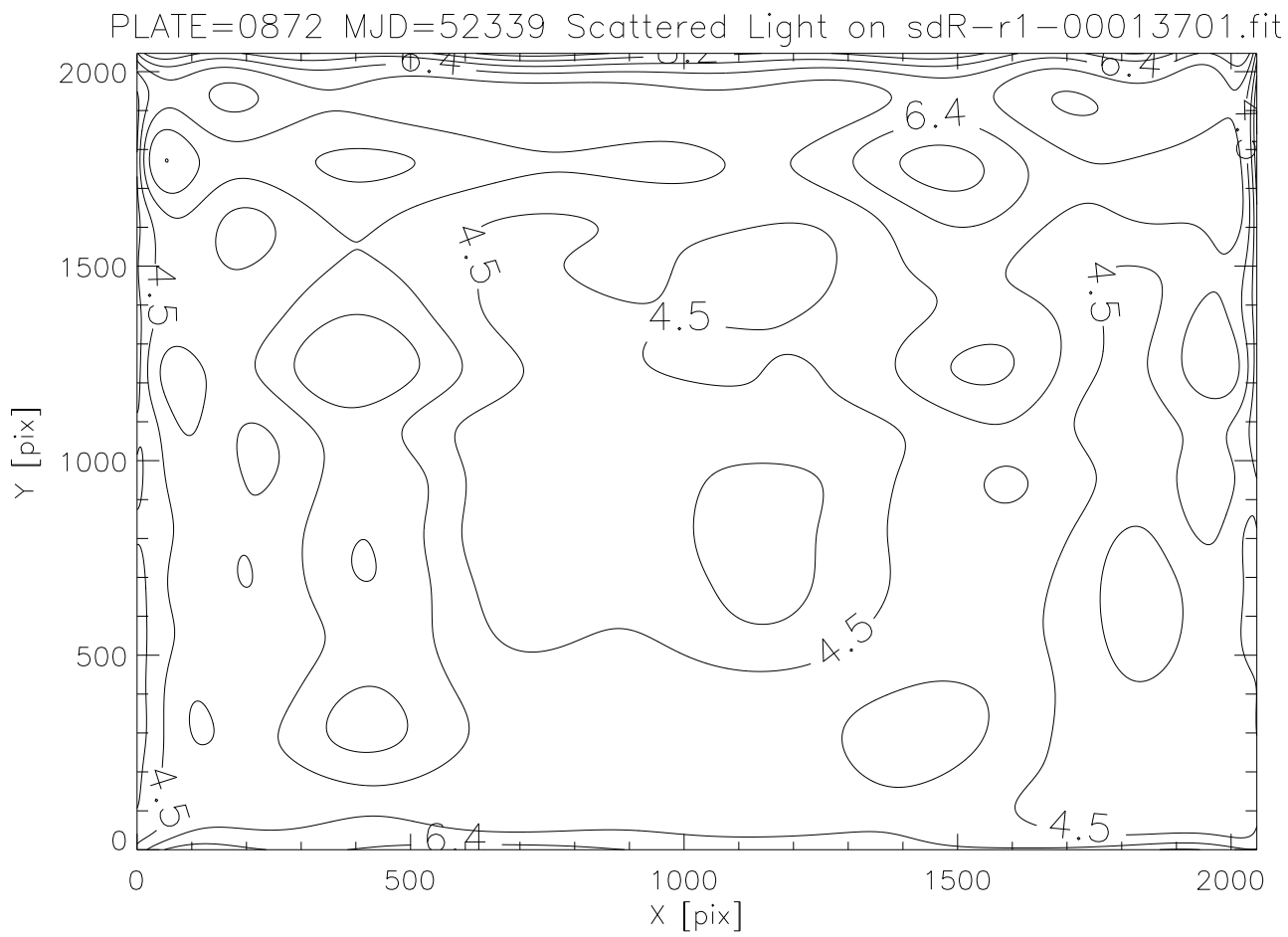

PLATE=0872 MJD=52339 sdR-r1-00013700.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.96 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

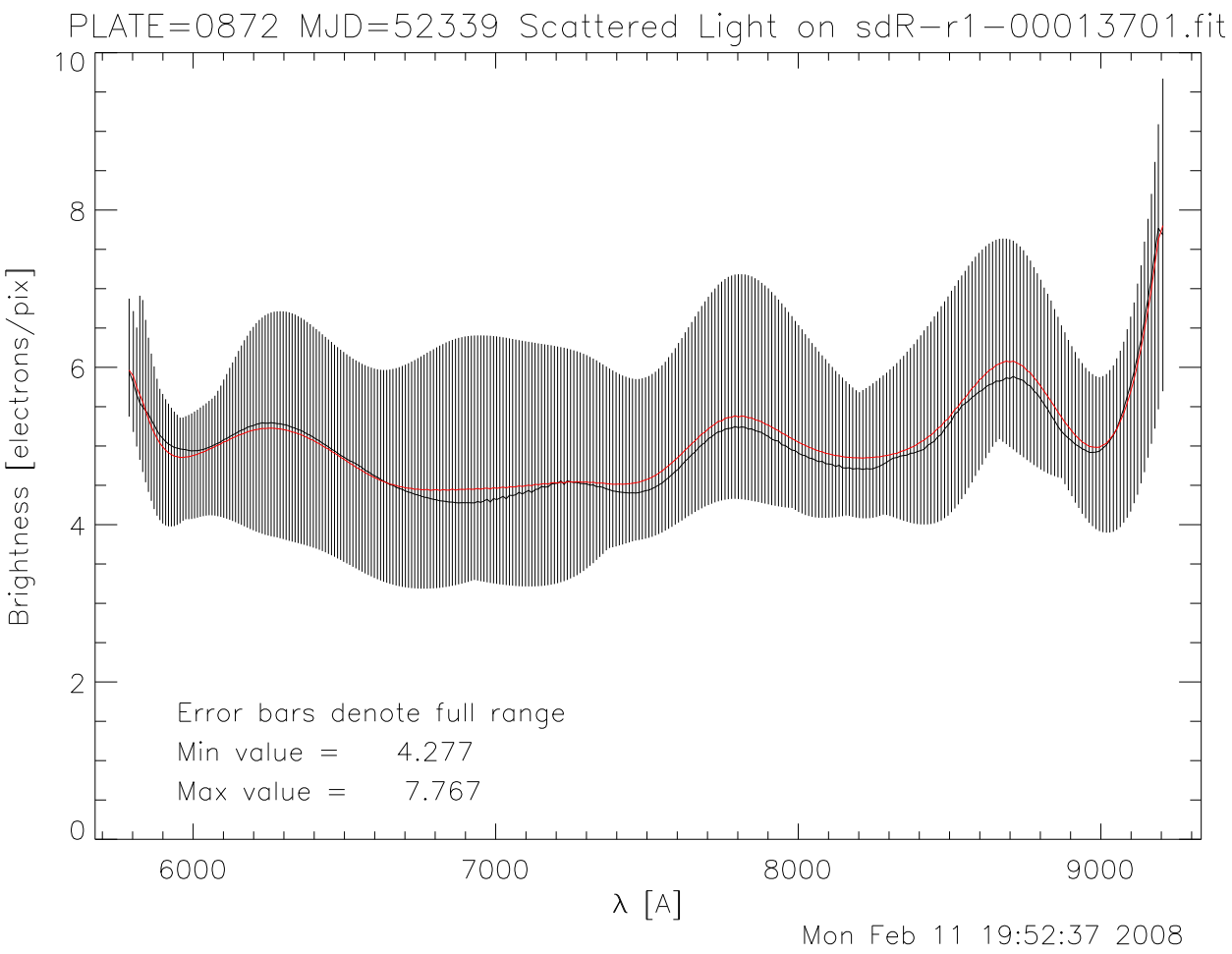

PLATE=0872 MJD=52339 sdR-r1-00013700.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.31 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

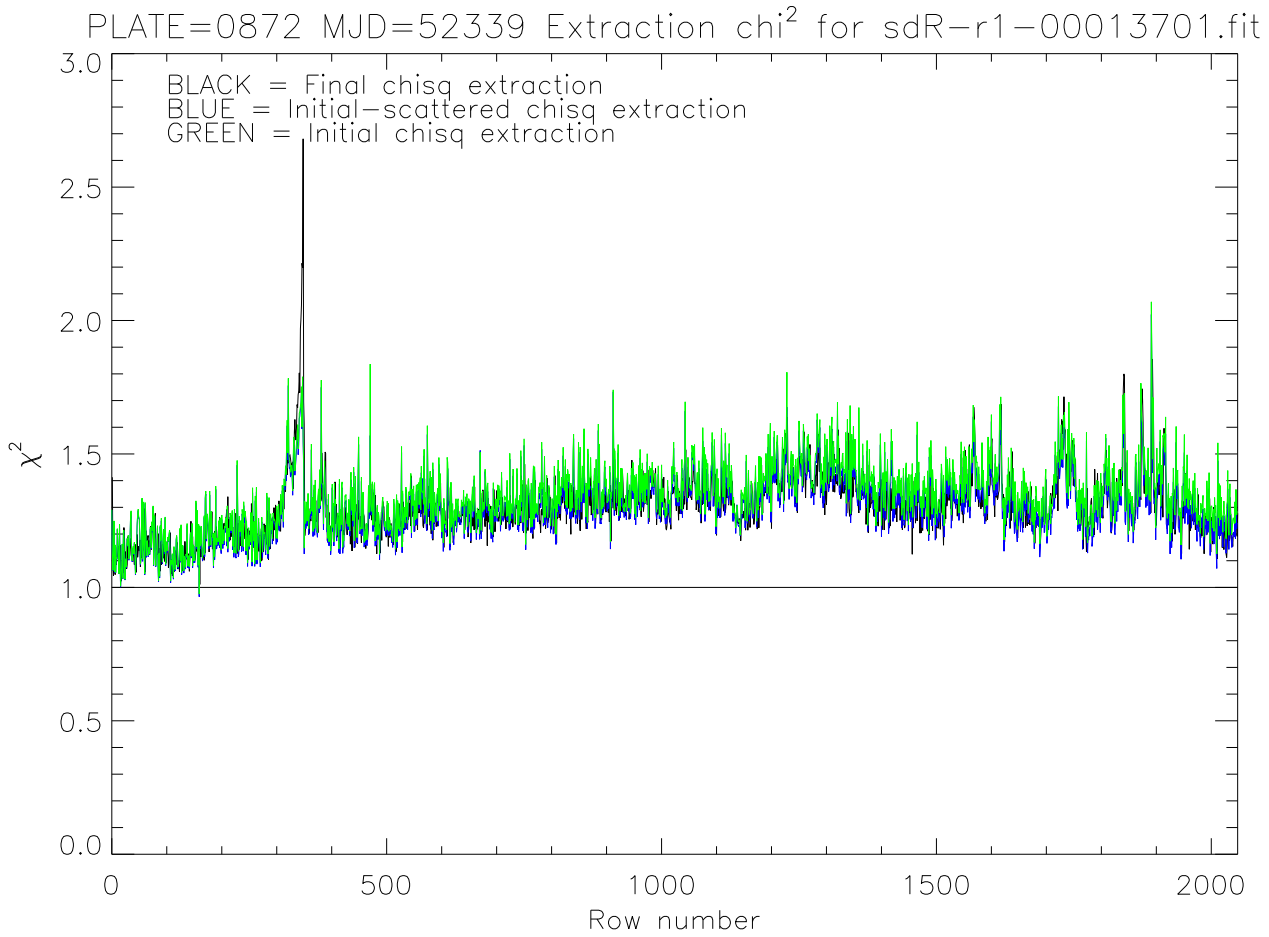

PLATE=0872 MJD=52339 Fiber−Flats for sdR−r1−00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.565
Max value = 1.316
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 19:49:47 2008

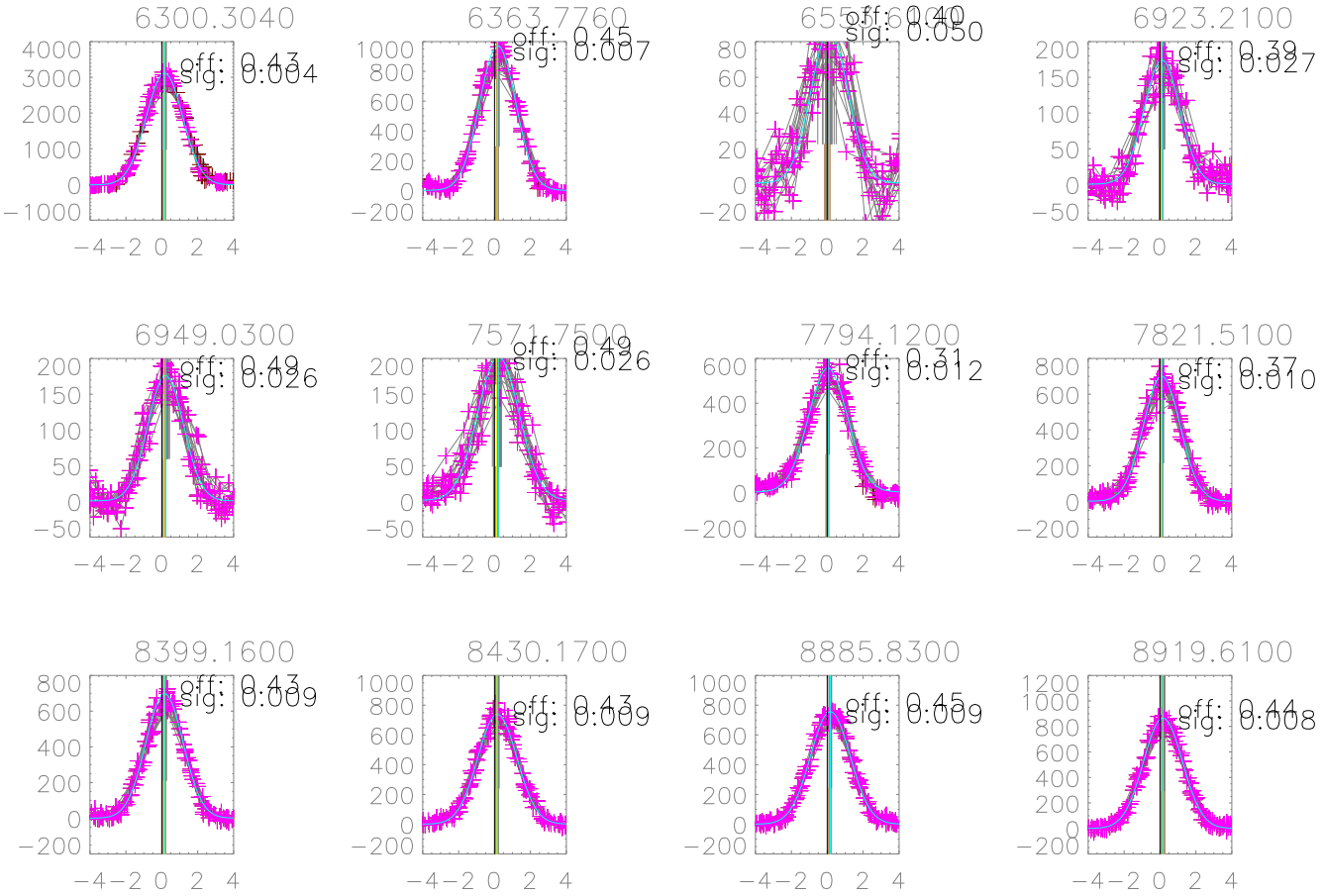

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR−r1−00013701.fi
28.6
22.3
15.9
9.5
9.5
9.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

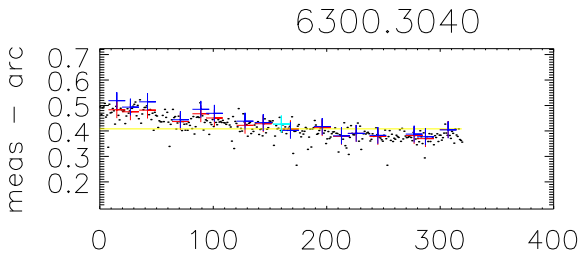

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r1-00013701.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.955
Max value = 27.042
Mon Feb 11 19:50:29 2008

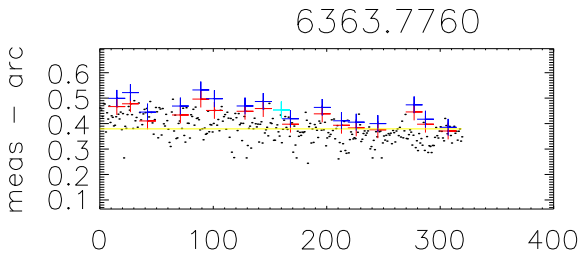

PLATE=0872 MJD=52339 Scattered Light on sdR-r1-00013701.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.4
4.5

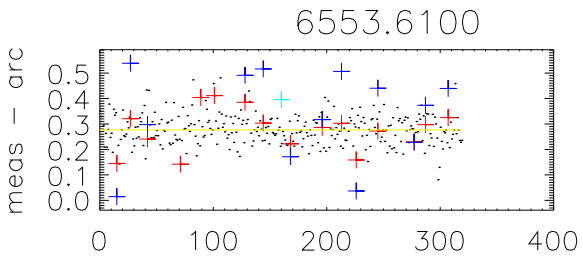

PLATE=0872 MJD=52339 Scattered Light on sdR-r1-00013701.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.277
Max value = 7.767
Mon Feb 11 19:52:37 2008

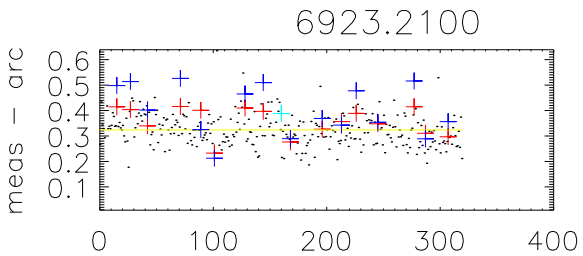

PLATE=0872 MJD=52339 Extraction chi^2 for sdR−r1−00013701.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

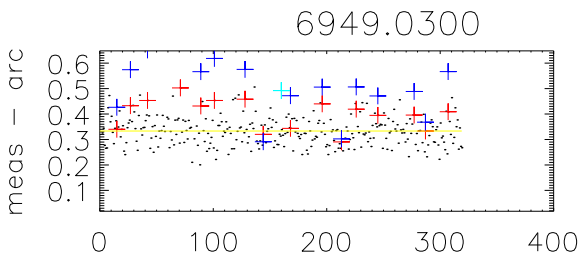

6300.3040
off: 0.43
sig: 0.004
6363.7760
off: 0.45
sig: 0.007
6555.6040
off: 0.40
sig: 0.050
6923.2100
off: 0.39
sig: 0.027
6949.0300
off: 0.49
sig: 0.026
7571.7500
off: 0.49
sig: 0.026
7794.1200
off: 0.31
sig: 0.012
7821.5100
off: 0.37
sig: 0.010
8399.1600
off: 0.43
sig: 0.009
8430.1700
off: 0.43
sig: 0.009
8885.8300
off: 0.45
sig: 0.009
8919.6100
off: 0.44
sig: 0.008

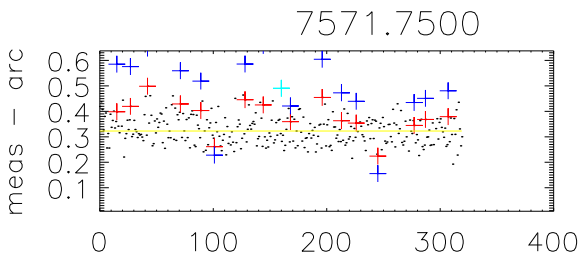

6300.3040
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

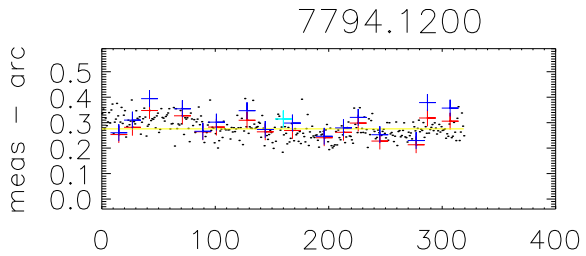

6363.7760
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

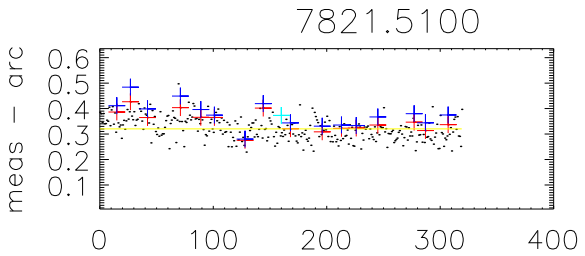

6553.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

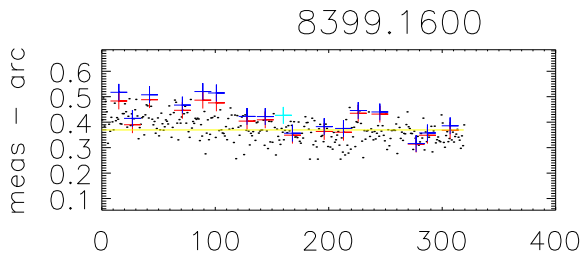

6923.2100
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

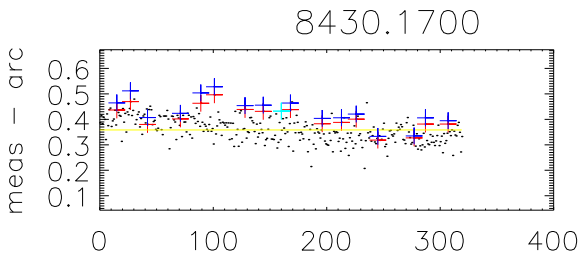

6949.0300
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

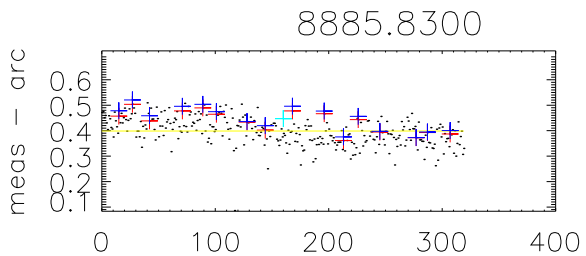

7571.7500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

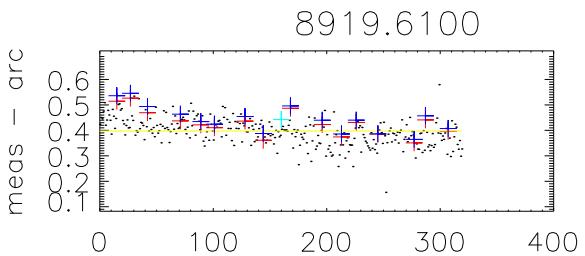

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

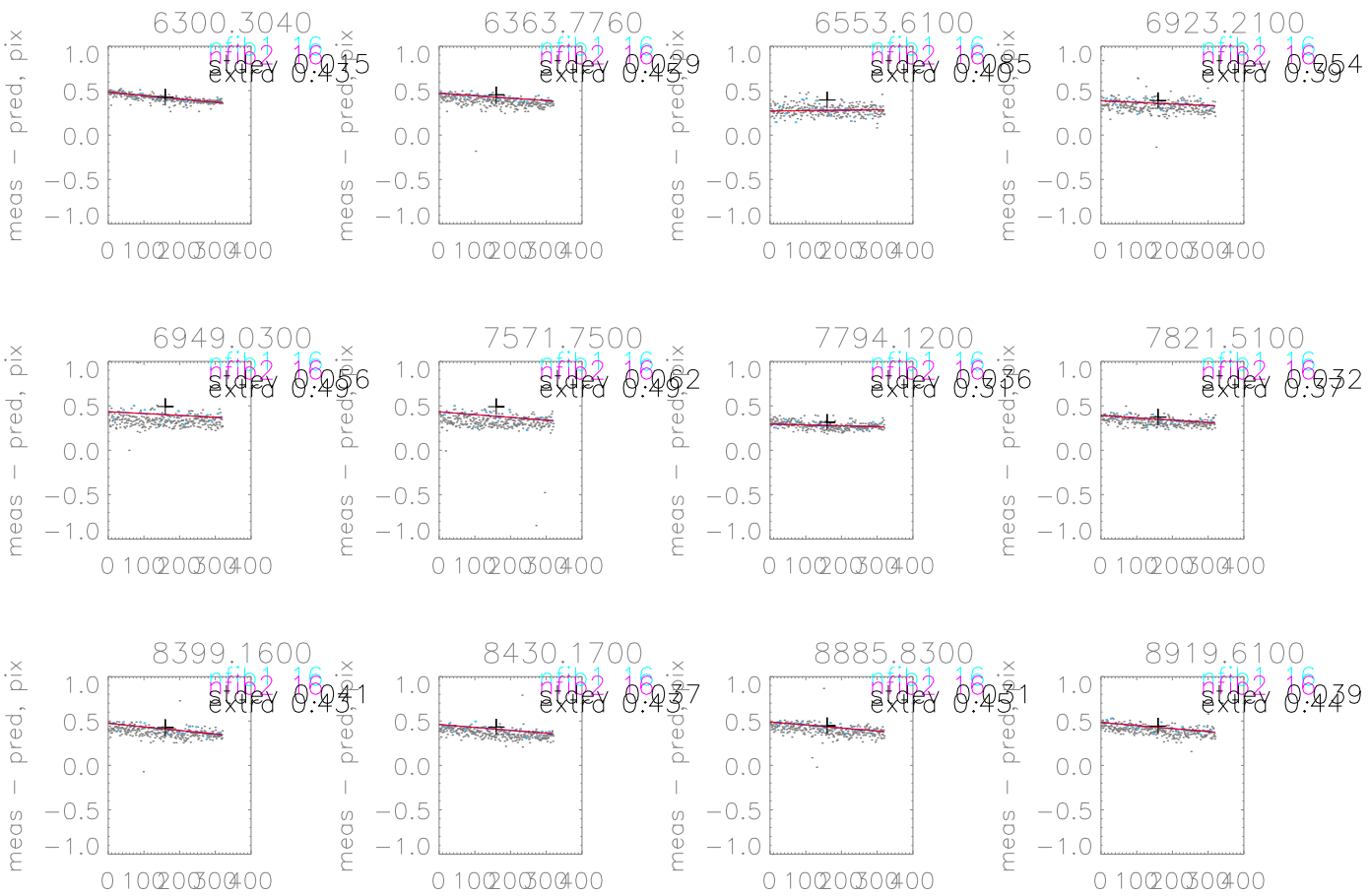

7821.5100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

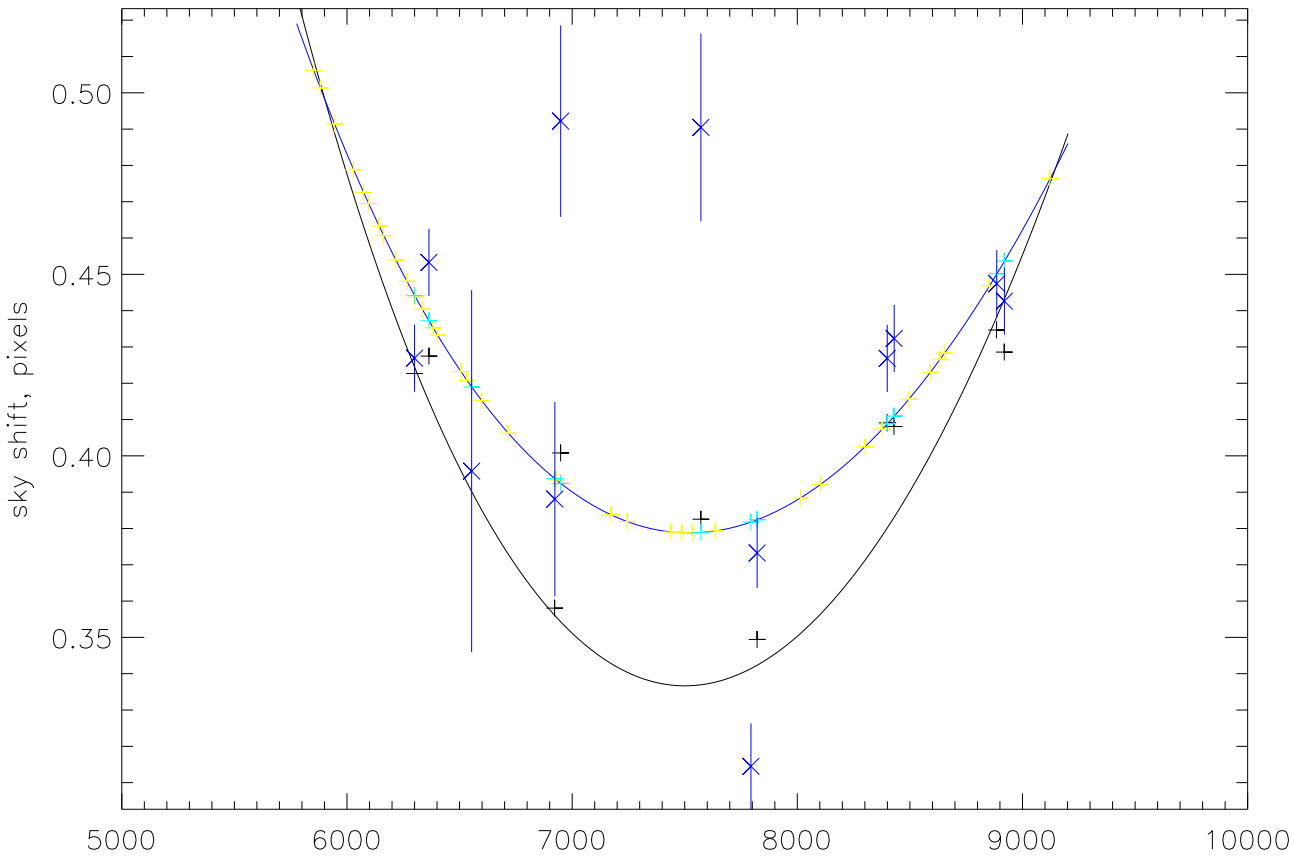

8399.1600
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

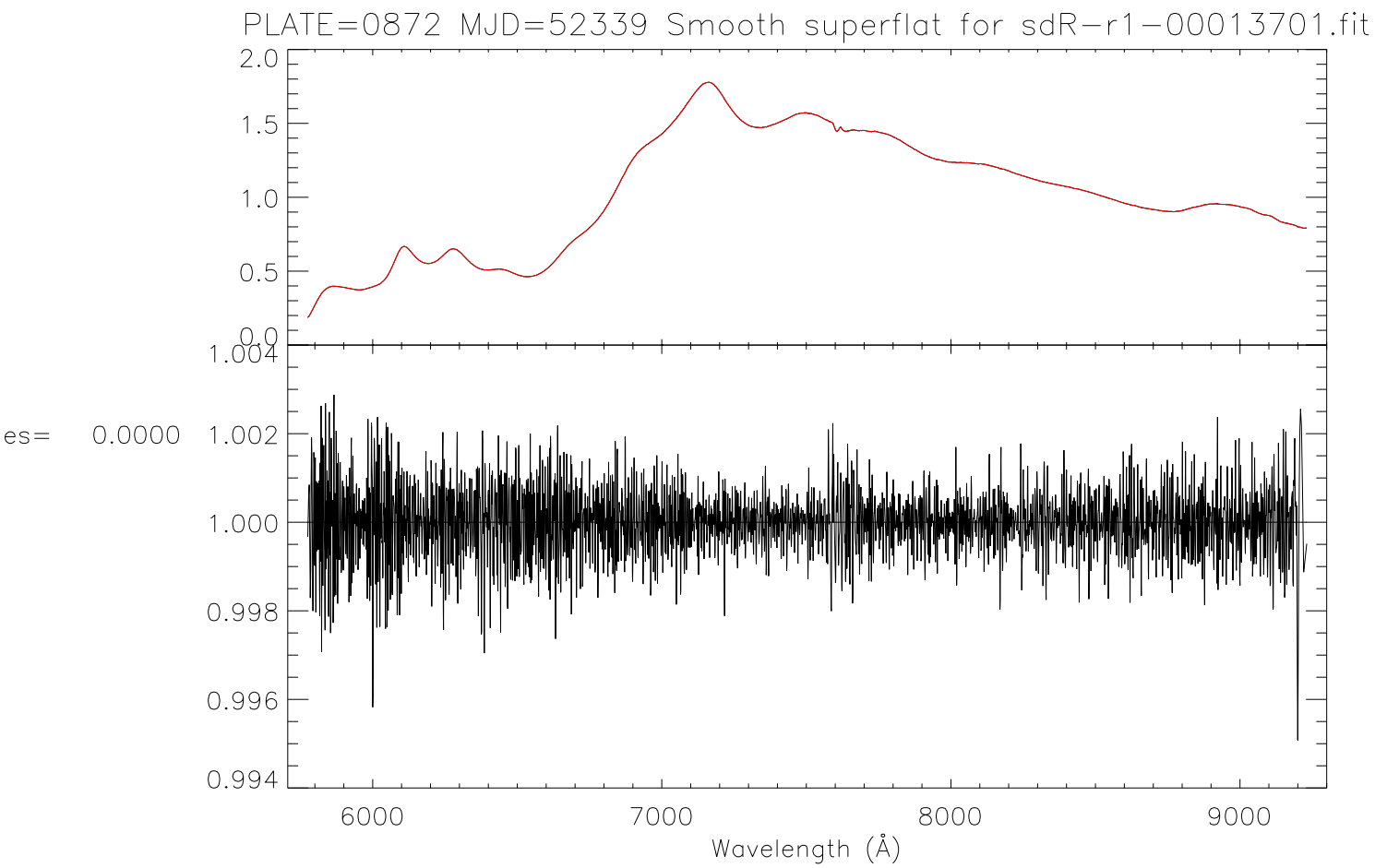

8430.1700
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


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

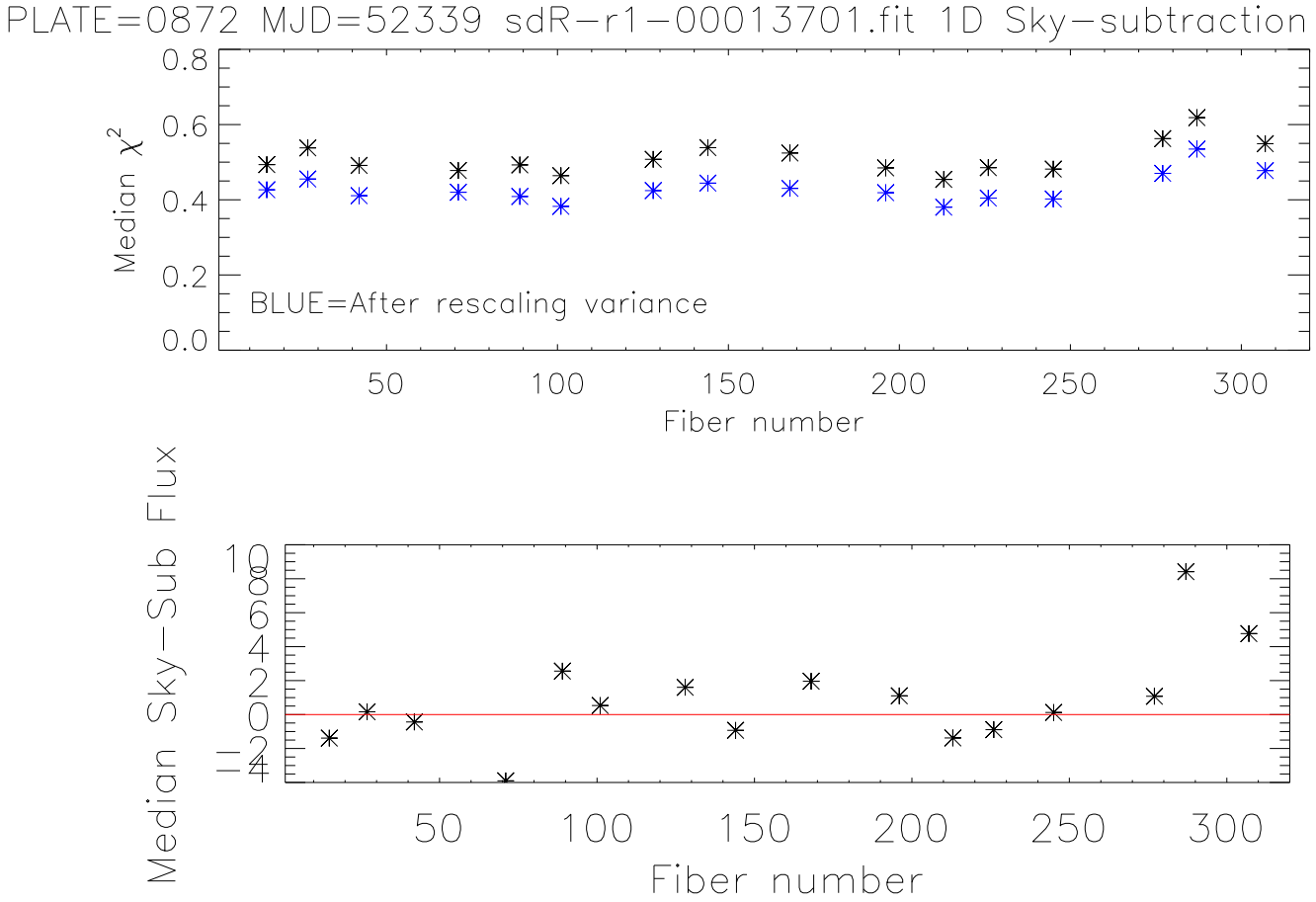

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


6300.3040
stdev 0.015
extra 0.43
6363.7760
stdev 0.029
extra 0.45
6553.6100
stdev 0.085
extra 0.40
6923.2100
stdev 0.054
extra 0.39
6949.0300
stdev 0.056
extra 0.49
7571.7500
stdev 0.062
extra 0.49
7794.1200
stdev 0.036
extra 0.31
7821.5100
stdev 0.032
extra 0.37
8399.1600
stdev 0.041
extra 0.43
8430.1700
stdev 0.037
extra 0.43
8885.8300
stdev 0.031
extra 0.45
8919.6100
stdev 0.039
extra 0.44
meas − pred, pix
mfhd2 16
mfhd1 16

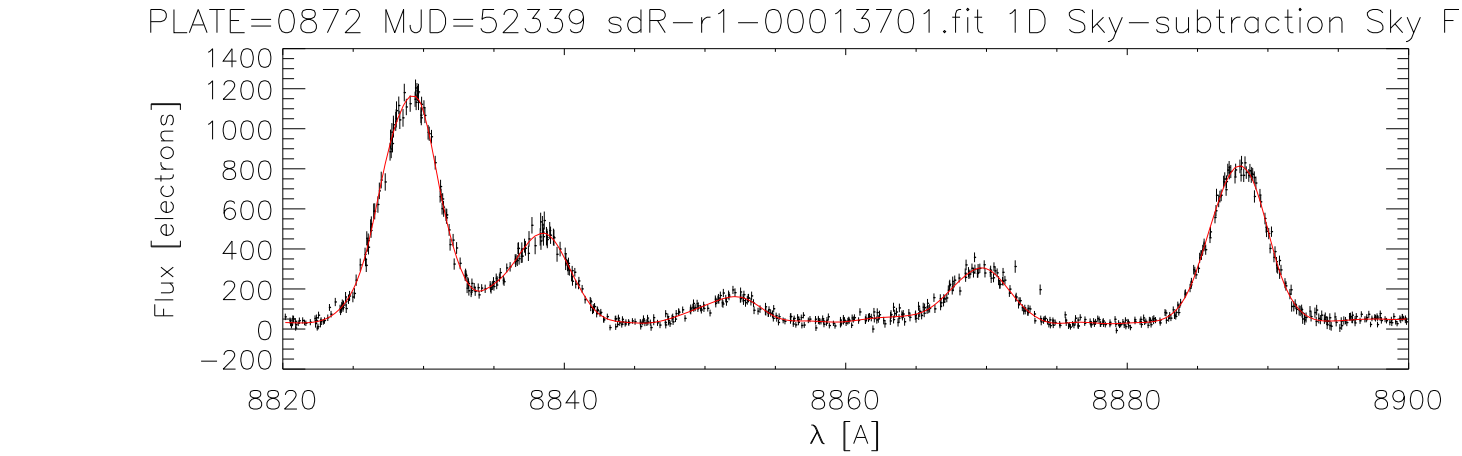

0.50
0.45
0.40
0.35
sky shift, pixels
5000
6000
7000
8000
9000
10000

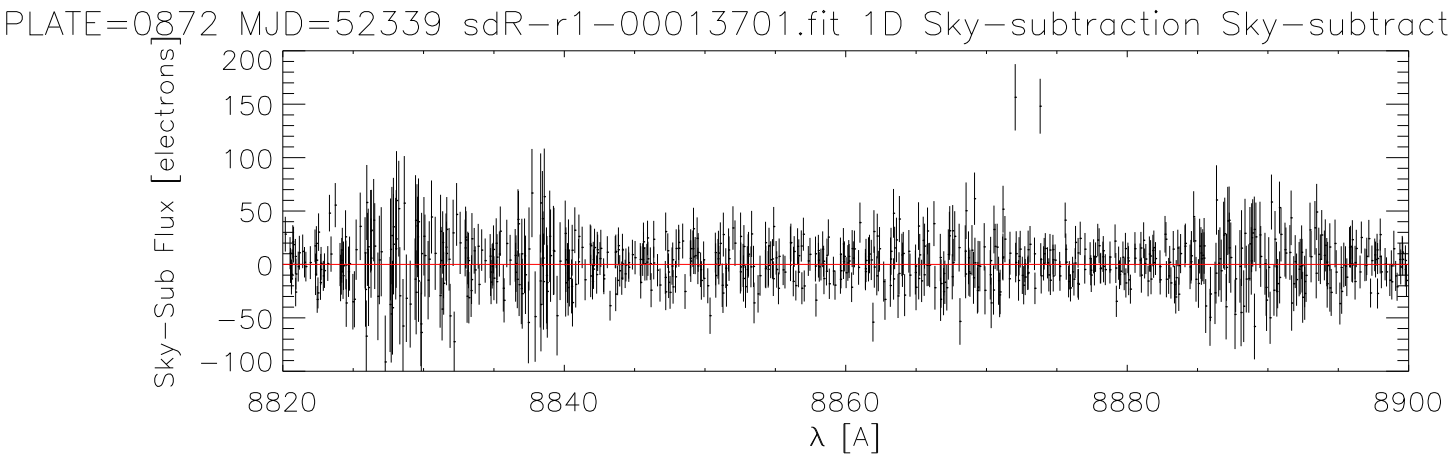

PLATE=0872 MJD=52339 Smooth superflat for sdR-r1-00013701.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

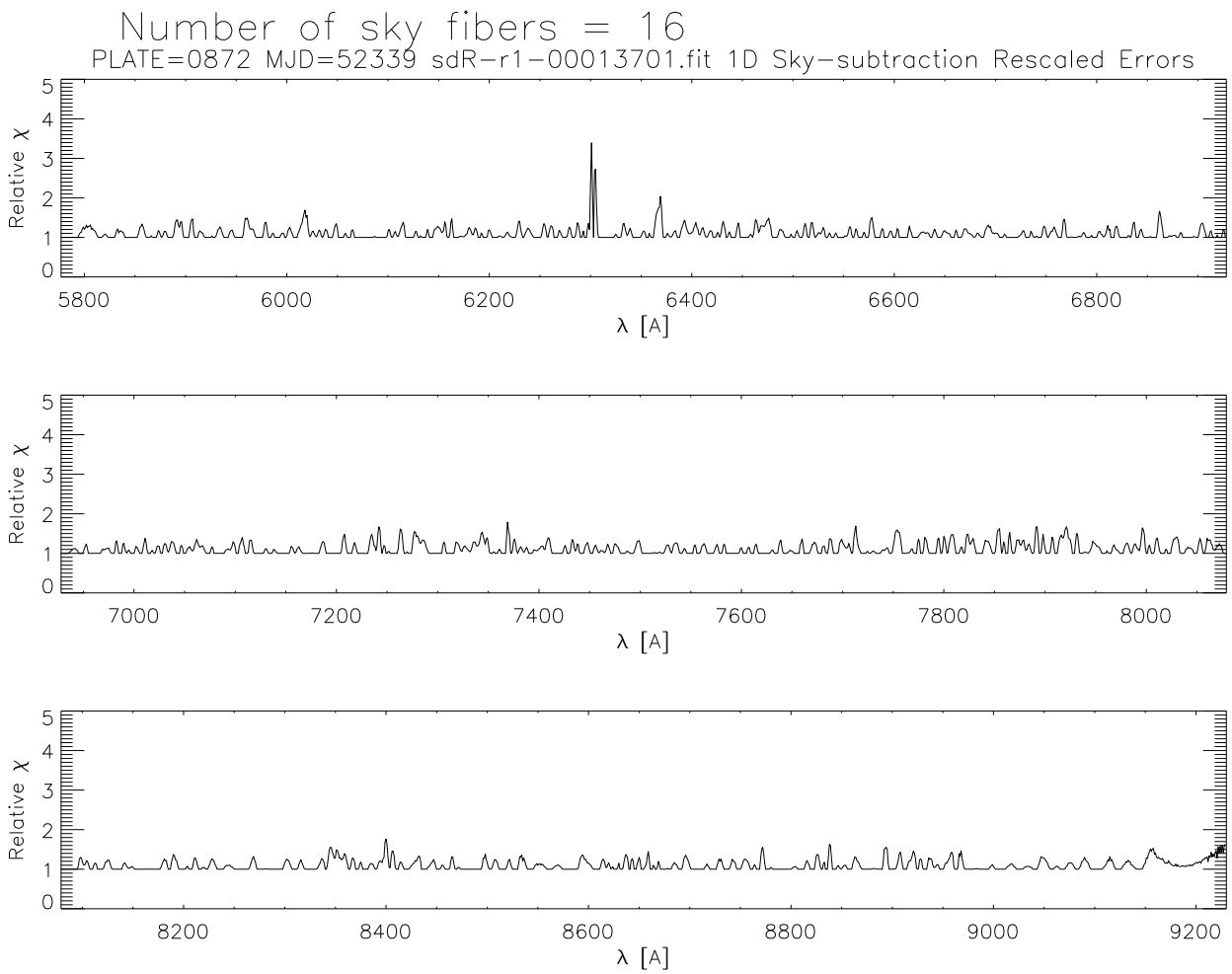
es= 0.0000

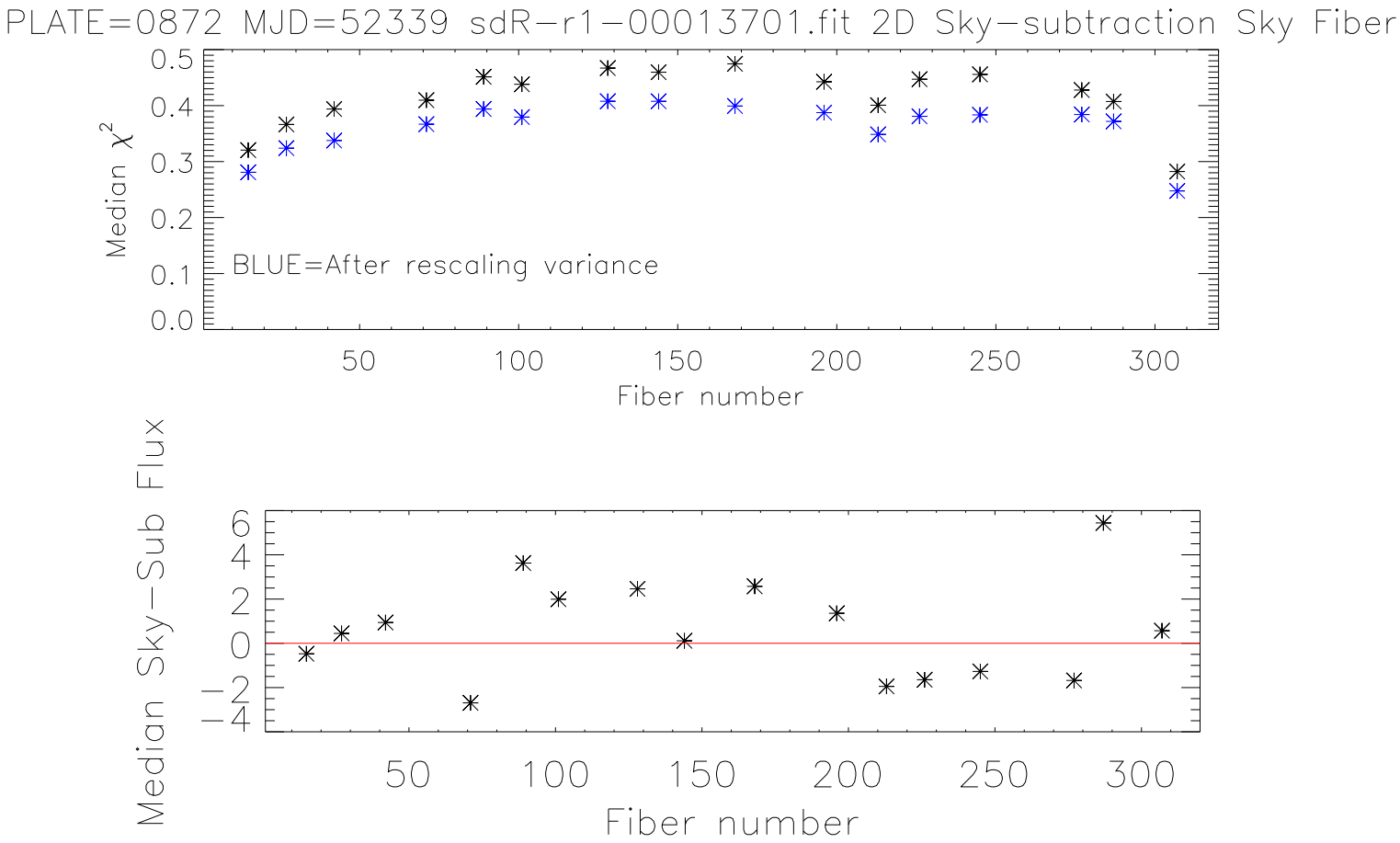

PLATE=0872 MJD=52339 sdR-r1-00013701.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

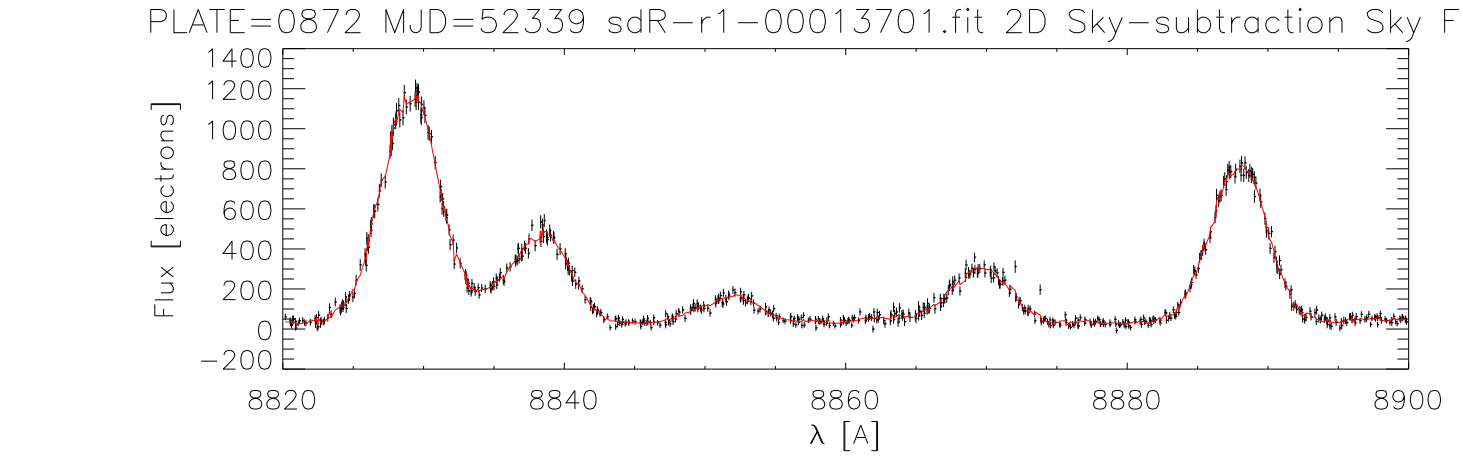
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
10
50
100
150
200
250
300
Fiber number

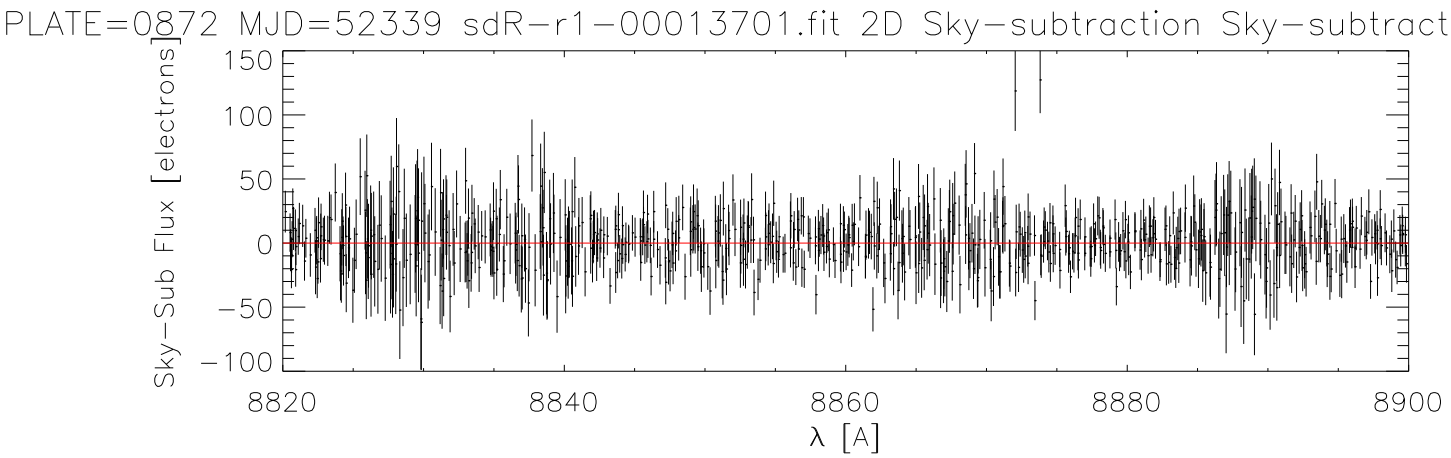

PLATE=0872 MJD=52339 sdR-r1-00013701.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1400
1200
1000
800
600
400
200
0
−200
8820
8840
8860
8880
8900
λ [A]

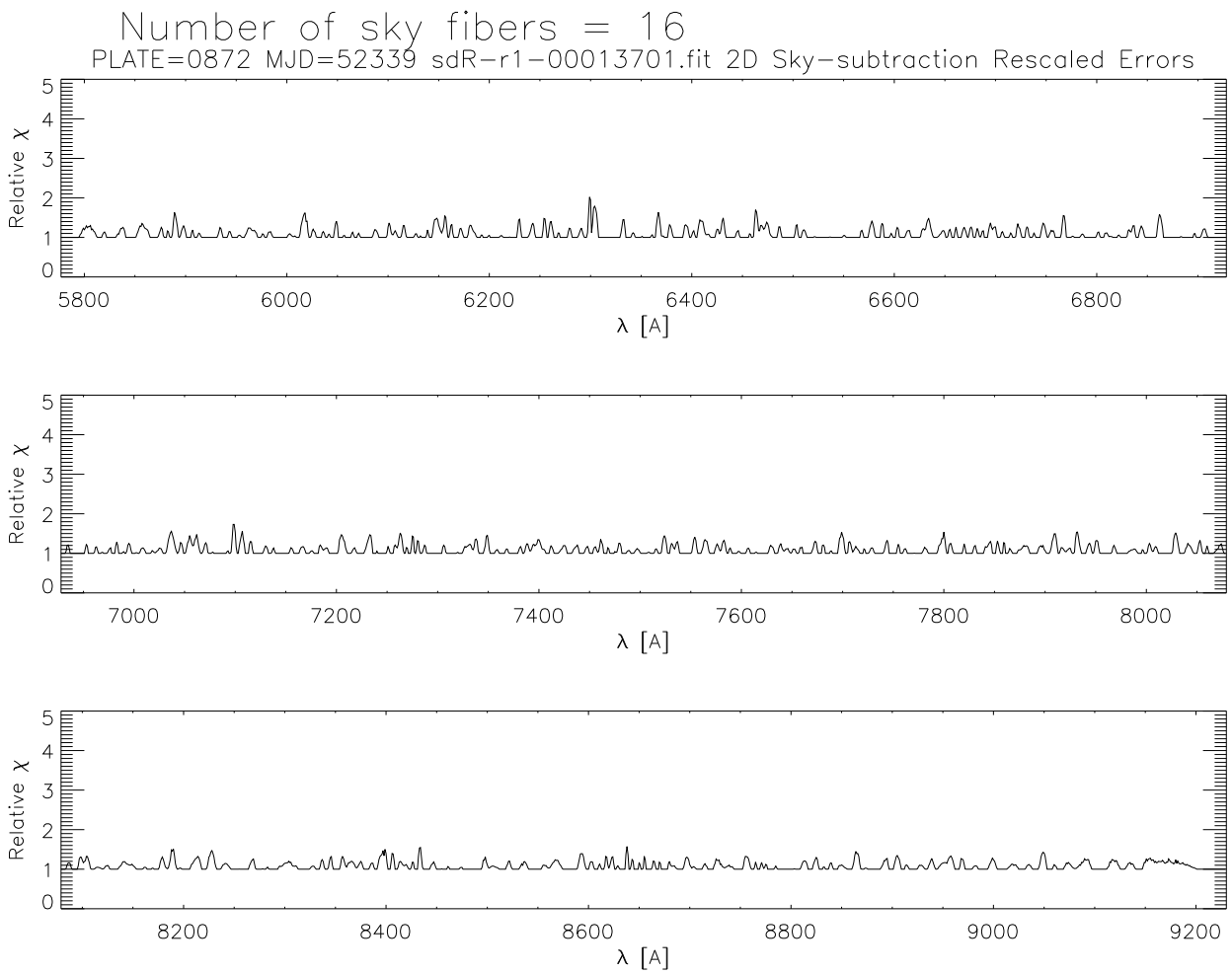

PLATE=0872 MJD=52339 sdR-r1-00013701.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
150
100
50
0
−50
−100
8820
8840
8860
8880
8900
λ [A]

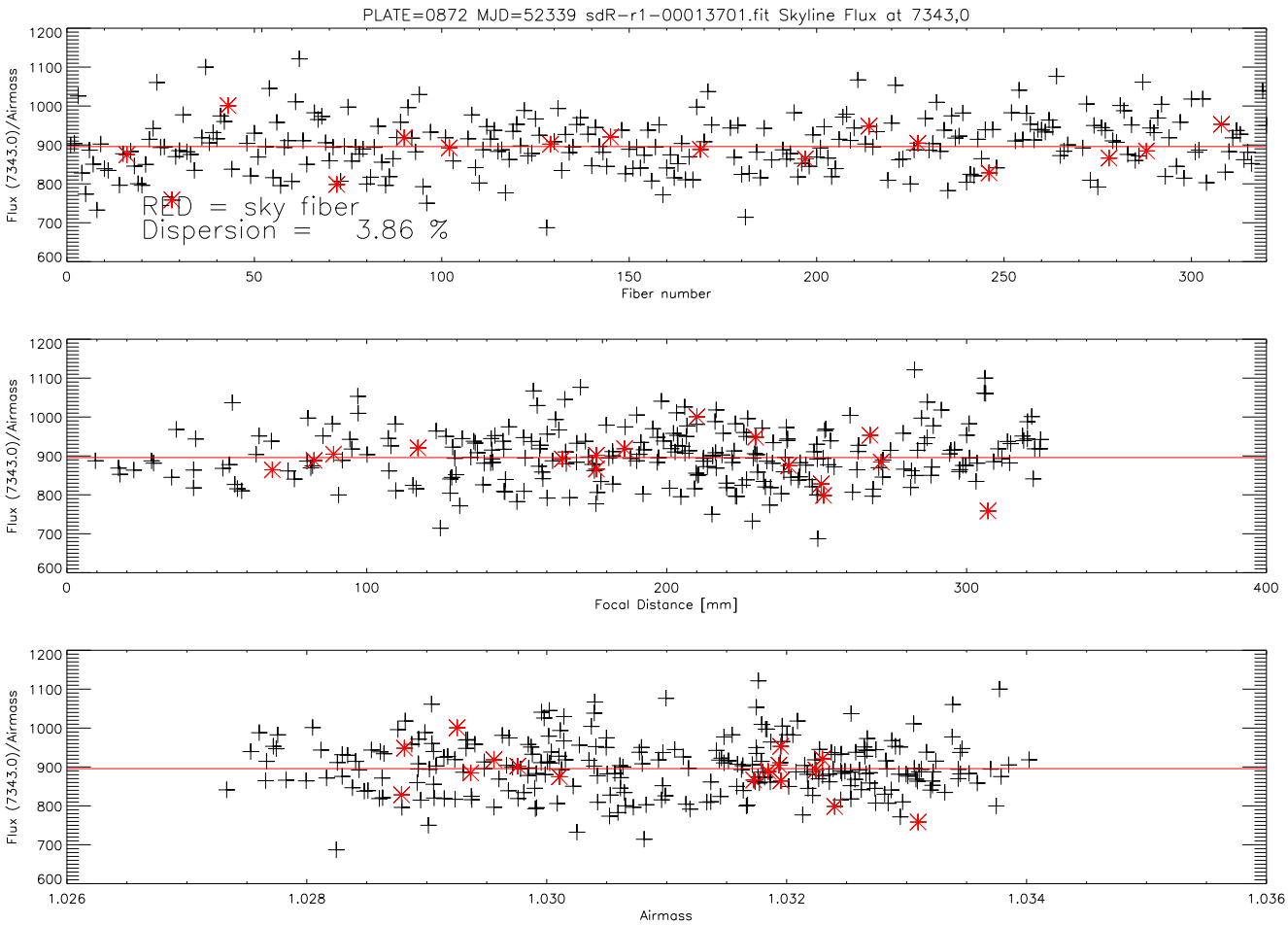

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r1-00013701.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

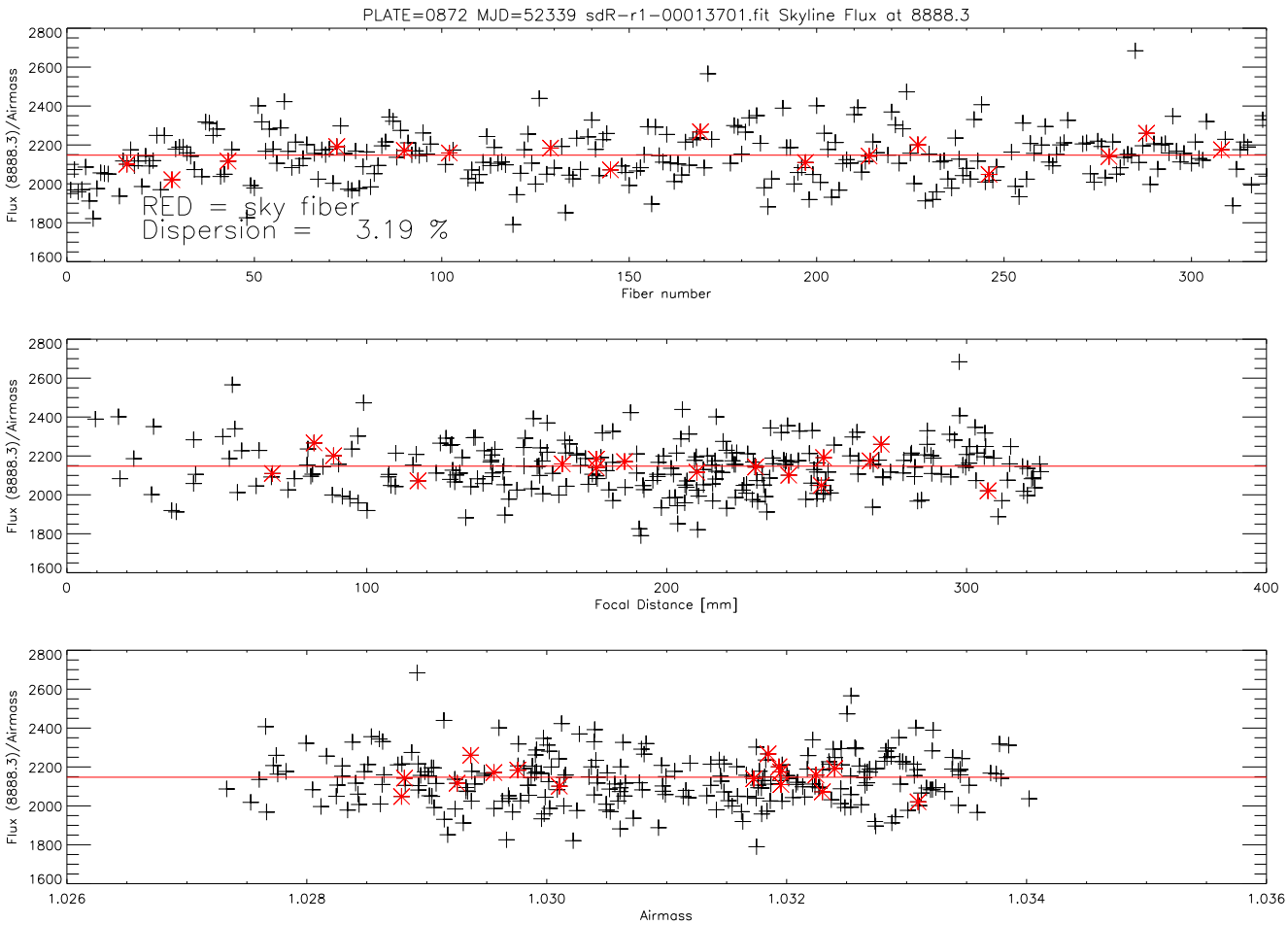

PLATE=0872 MJD=52339 sdR-r1-00013701.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

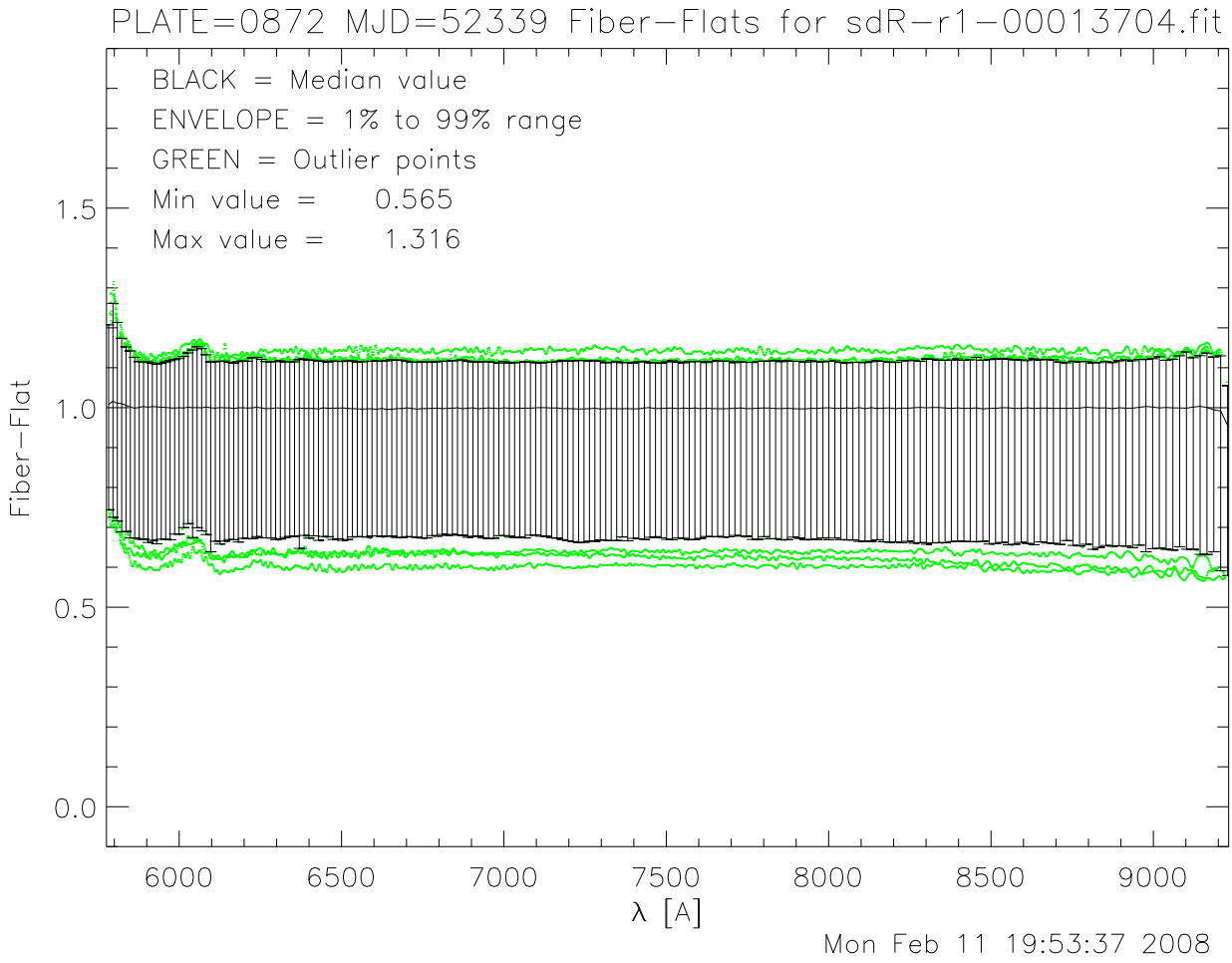

PLATE=0872 MJD=52339 sdR-r1-00013701.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1400
1200
1000
800
600
400
200
0
−200
8820
8840
8860
8880
8900
λ [A]

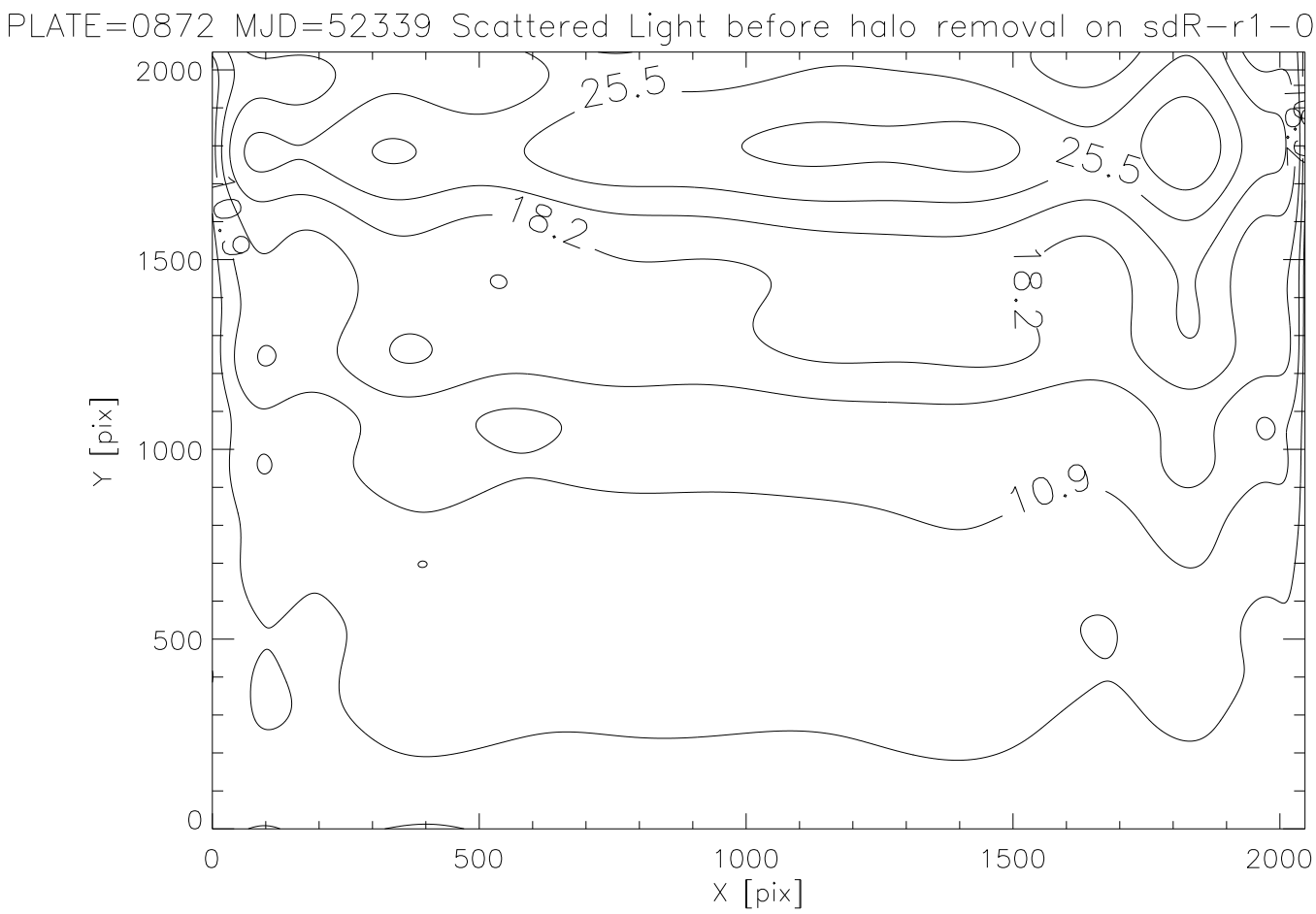

PLATE=0872 MJD=52339 sdR-r1-00013701.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
8820
8840
8860
8880
8900
λ [A]

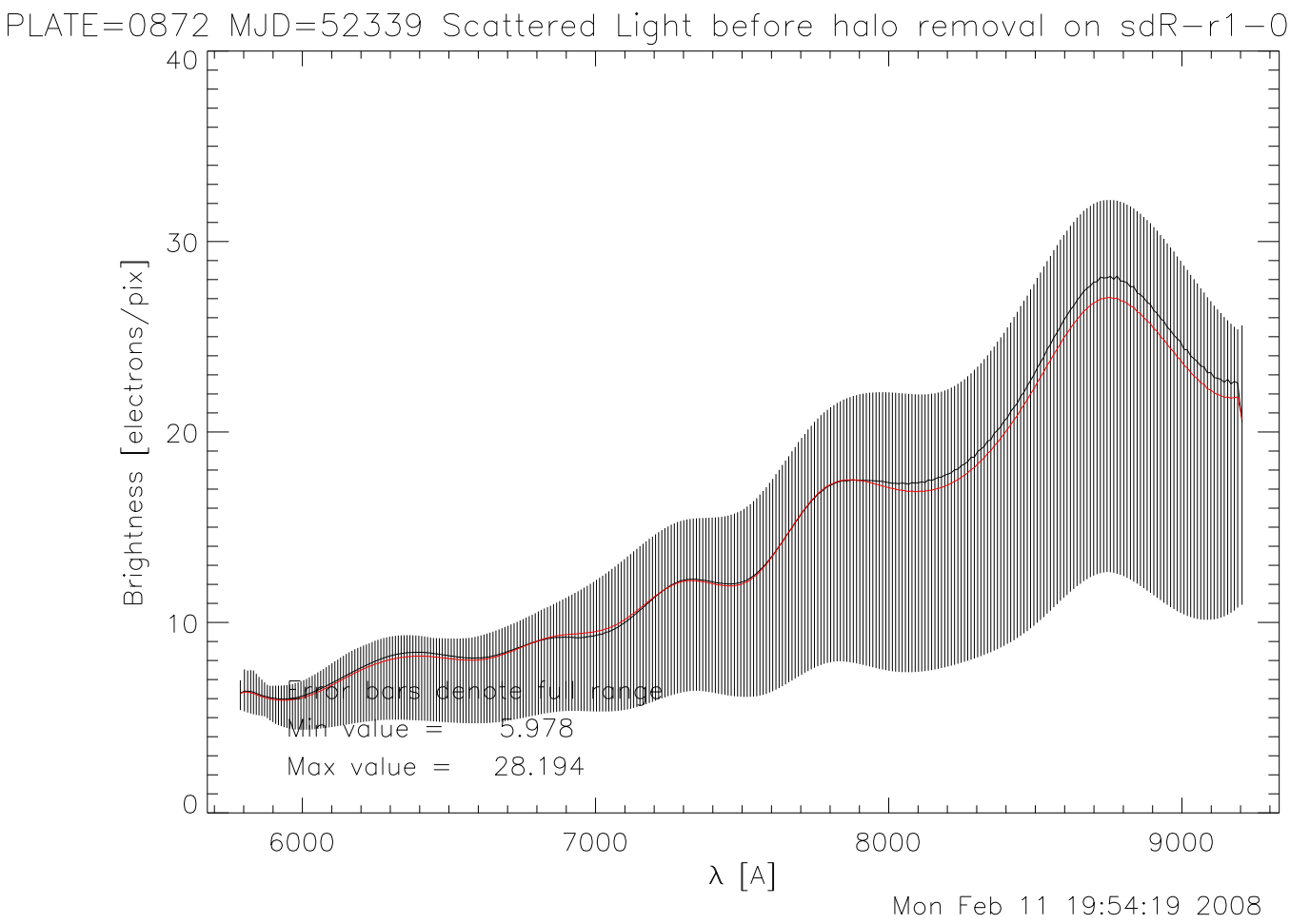

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r1-00013701.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

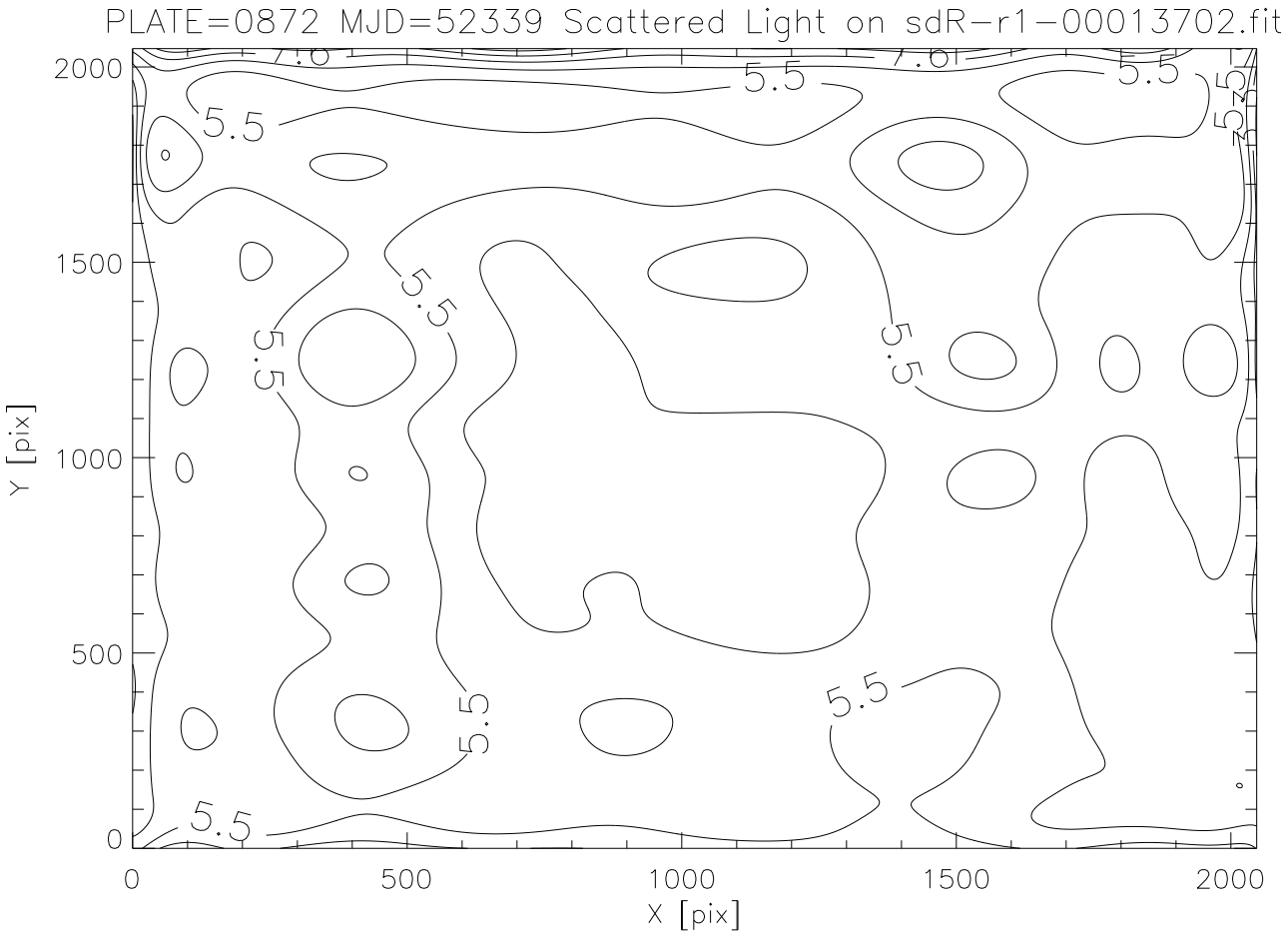

PLATE=0872 MJD=52339 sdR-r1-00013701.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.86 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

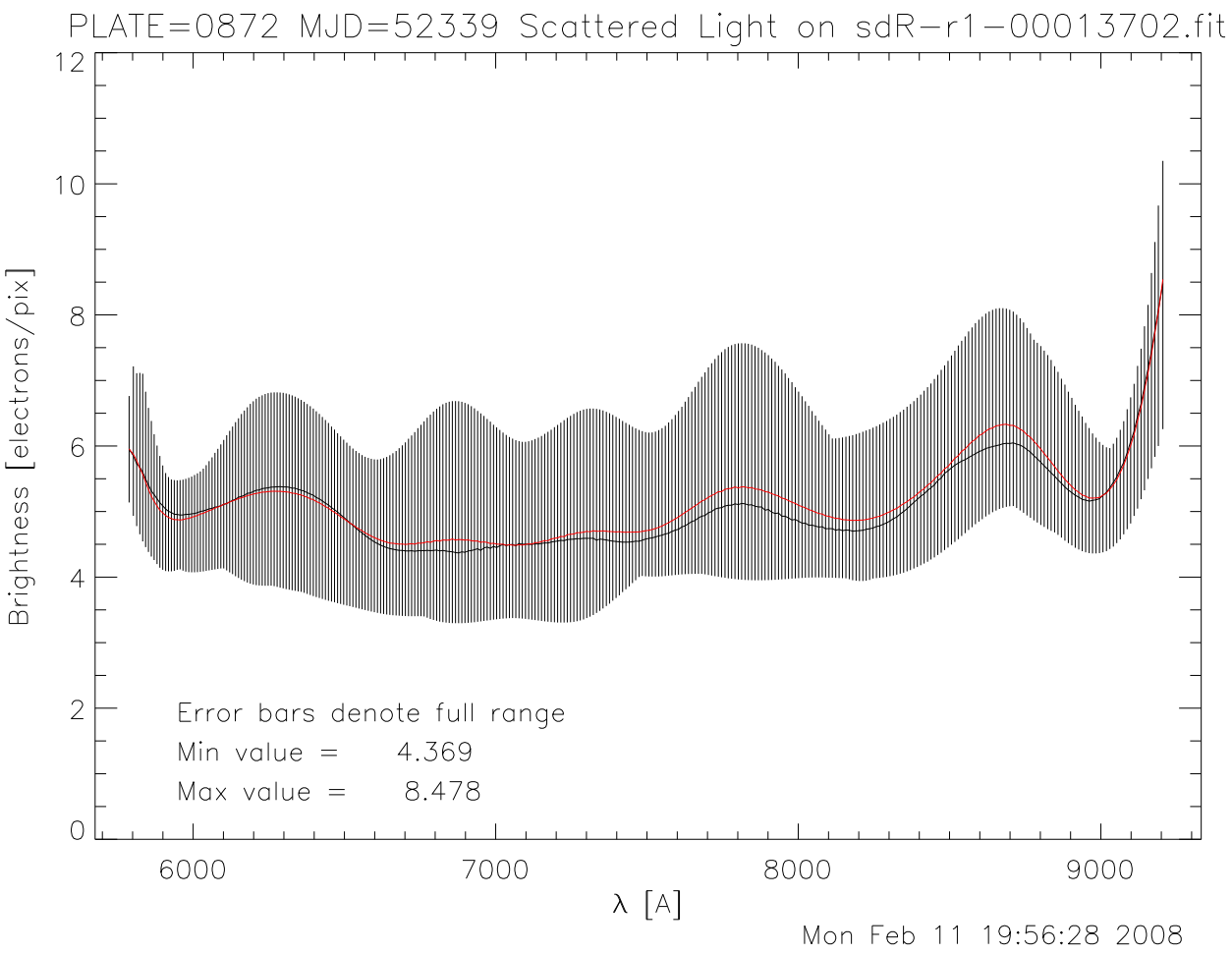

PLATE=0872 MJD=52339 sdR-r1-00013701.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.19 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

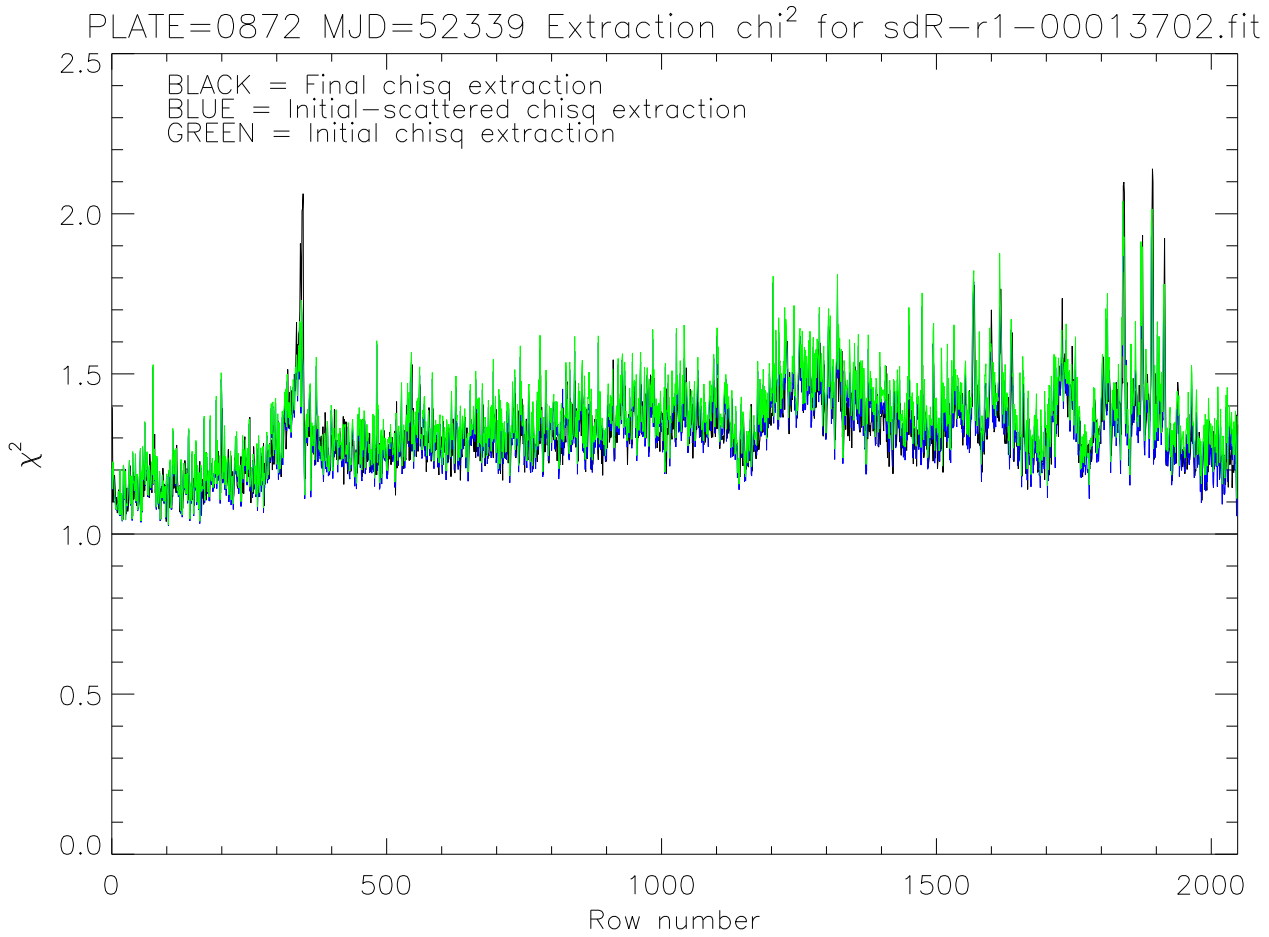

PLATE=0872 MJD=52339 Fiber-Flats for sdR-r1-00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.565
Max value = 1.316
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 19:53:37 2008

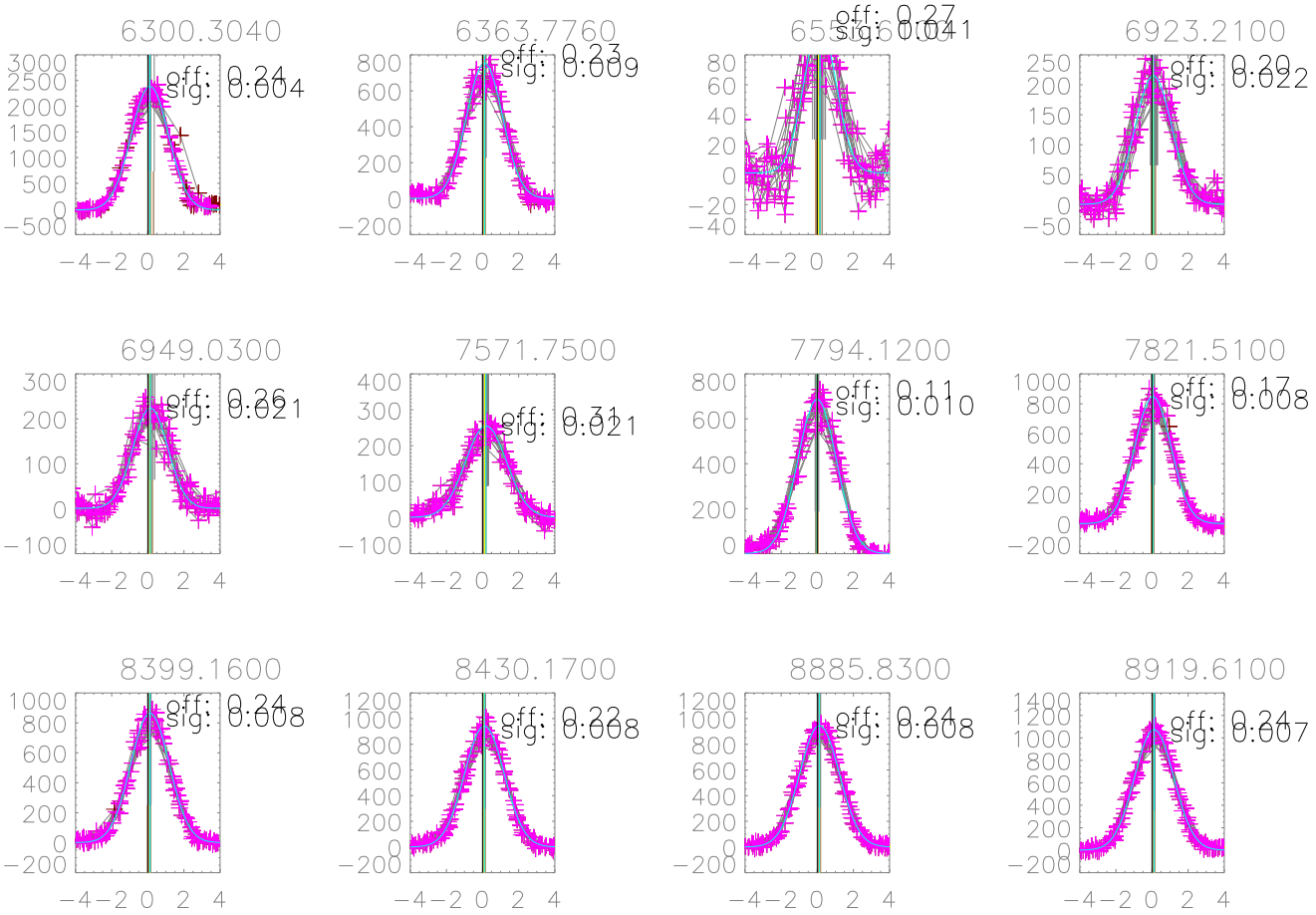

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r1-00013702.fi
25.5
25.5
18.2
18.2
10.9
10.9
0
0
0
0
Y [pix]
X [pix]
2000
1500
1000
500
0
0
500
1000
1500
2000

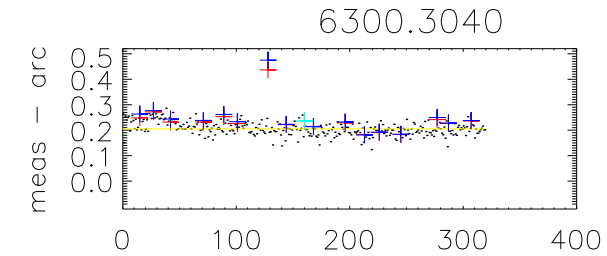

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r1-00013702.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.978
Max value = 28.194
Mon Feb 11 19:54:19 2008

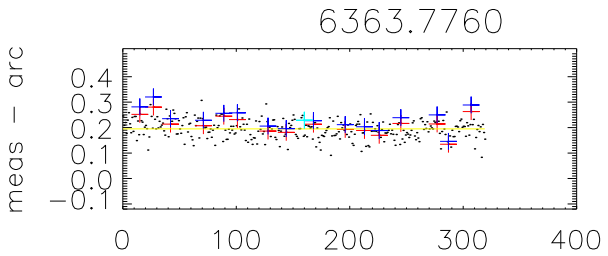

PLATE=0872 MJD=52339 Scattered Light on sdR−r1−00013702.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.5

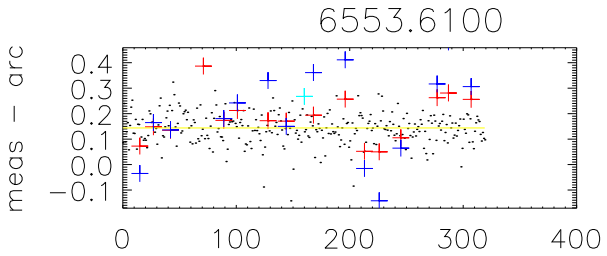

PLATE=0872 MJD=52339 Scattered Light on sdR-r1-00013702.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.369
Max value = 8.478
Mon Feb 11 19:56:28 2008

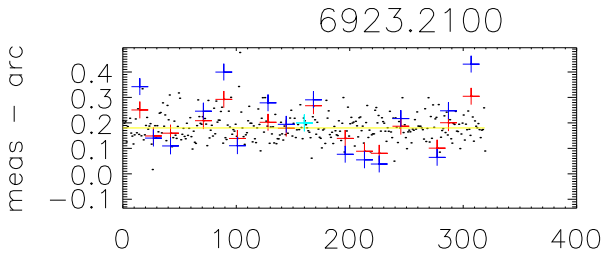

PLATE=0872 MJD=52339 Extraction chi^2 for sdR-r1-00013702.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

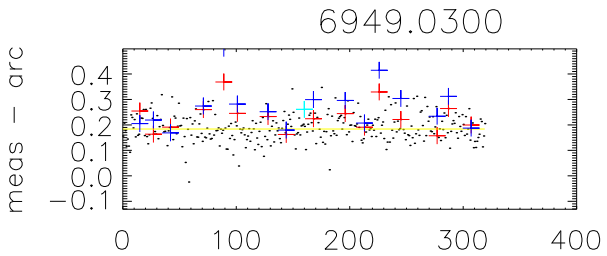

6300.3040
off: 0.24
sig: 0.004
6363.7760
off: 0.23
sig: 0.009
6555.6041
off: 0.27
sig: 0.041
6923.2100
off: 0.20
sig: 0.022
6949.0300
off: 0.26
sig: 0.021
7571.7500
off: 0.31
sig: 0.021
7794.1200
off: 0.11
sig: 0.010
7821.5100
off: 0.17
sig: 0.008
8399.1600
off: 0.24
sig: 0.008
8430.1700
off: 0.22
sig: 0.008
8885.8300
off: 0.24
sig: 0.008
8919.6100
off: 0.24
sig: 0.007

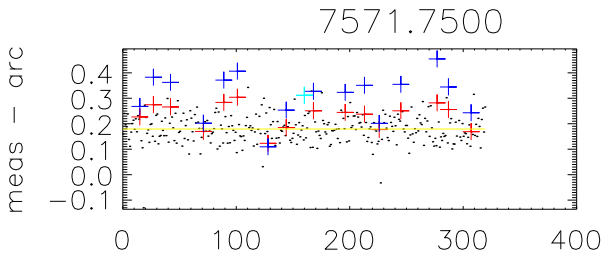

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

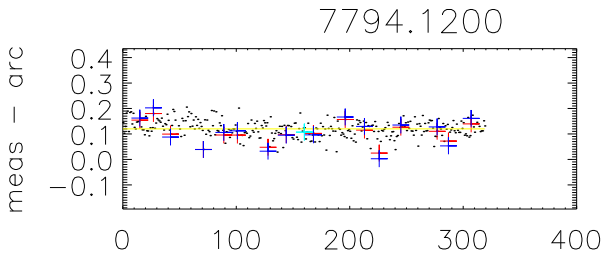

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

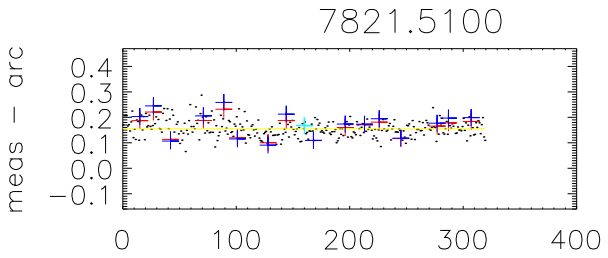

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

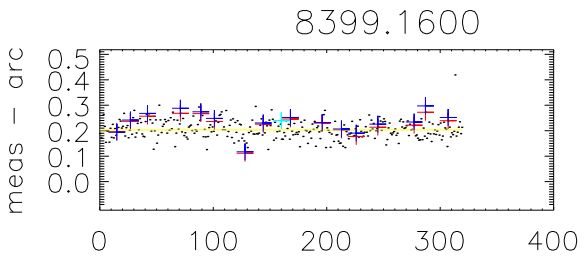

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

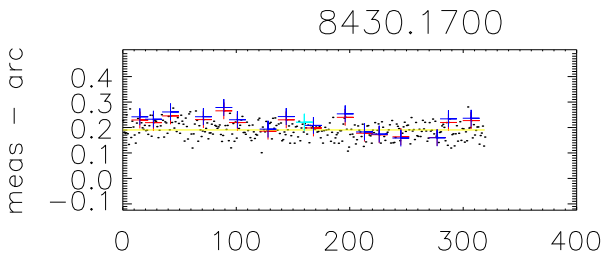

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

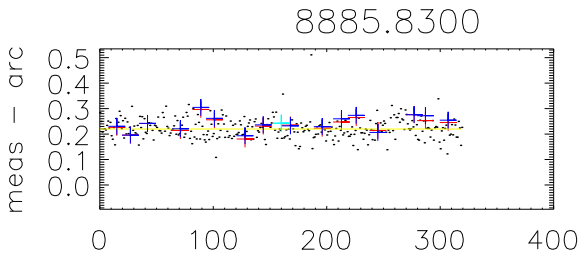

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

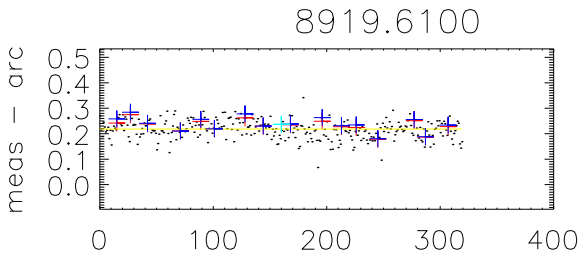

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

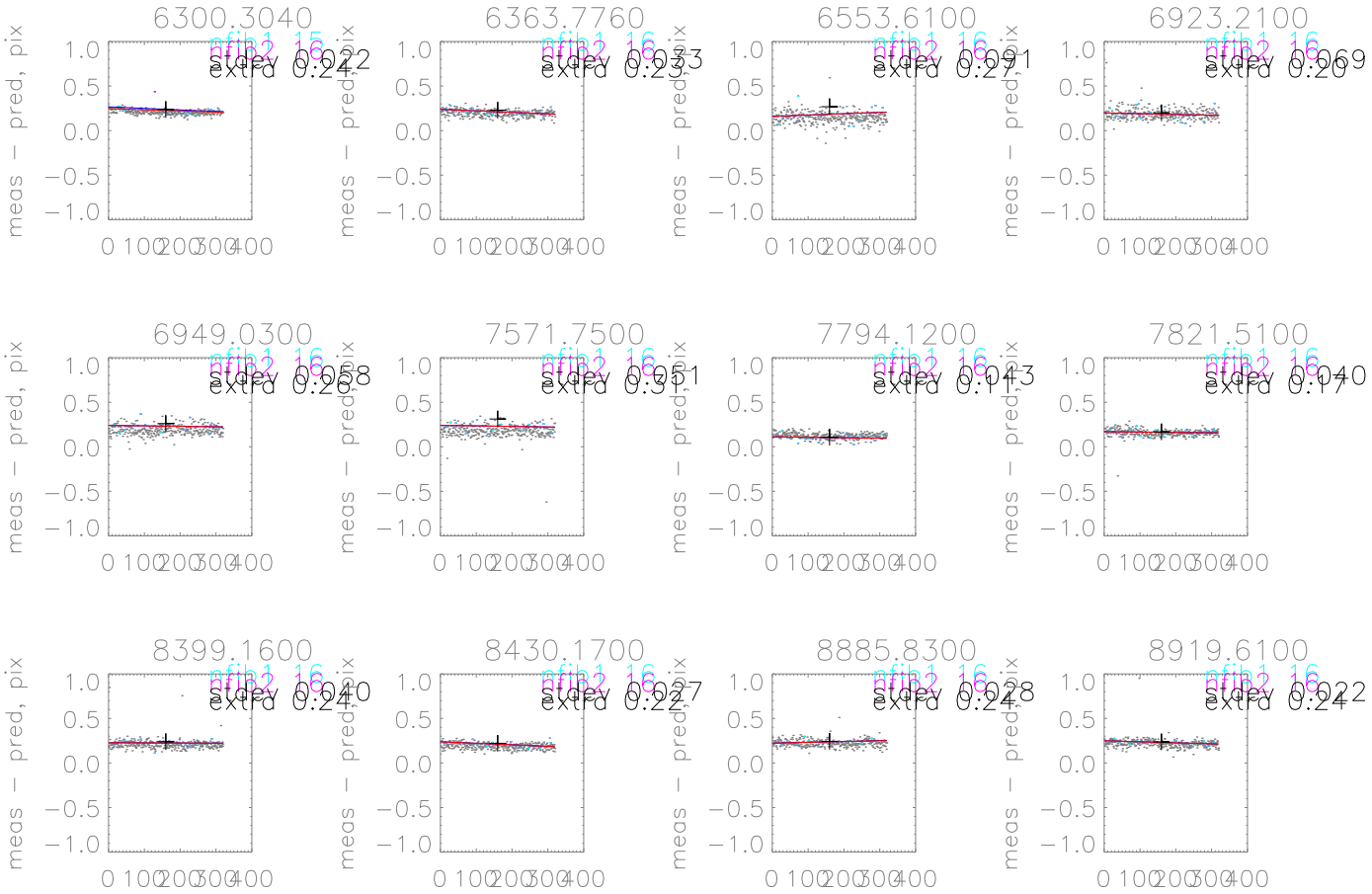

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

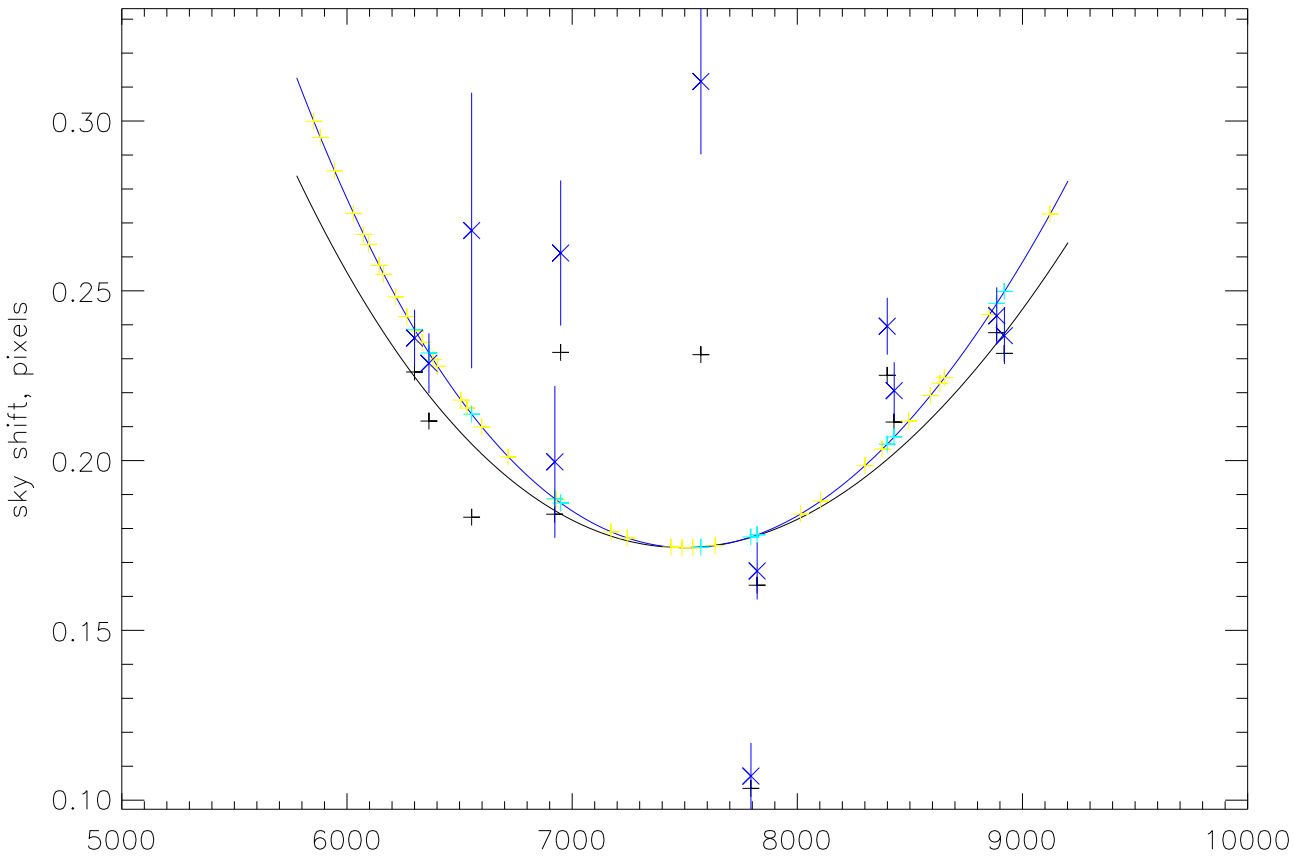

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

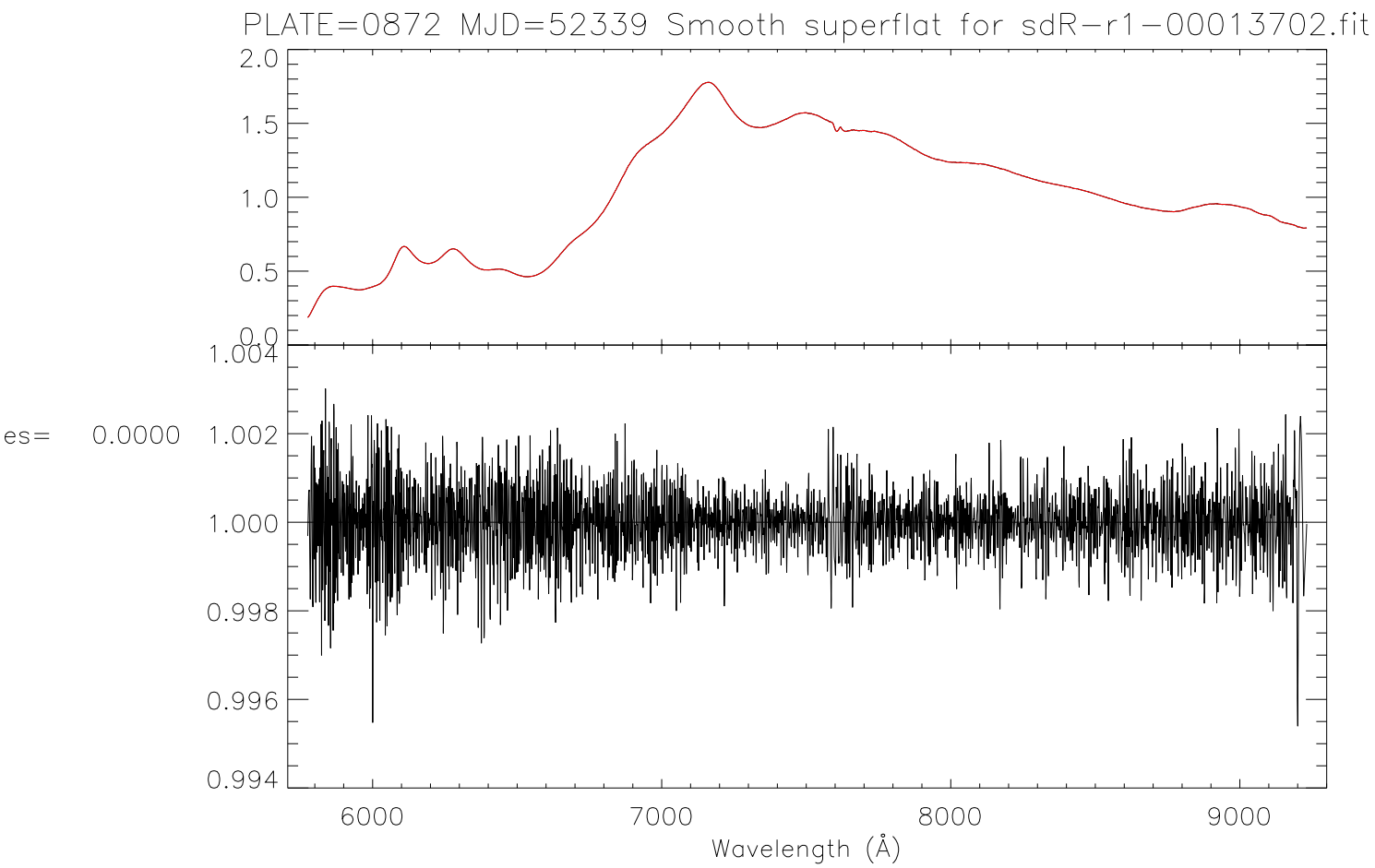

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

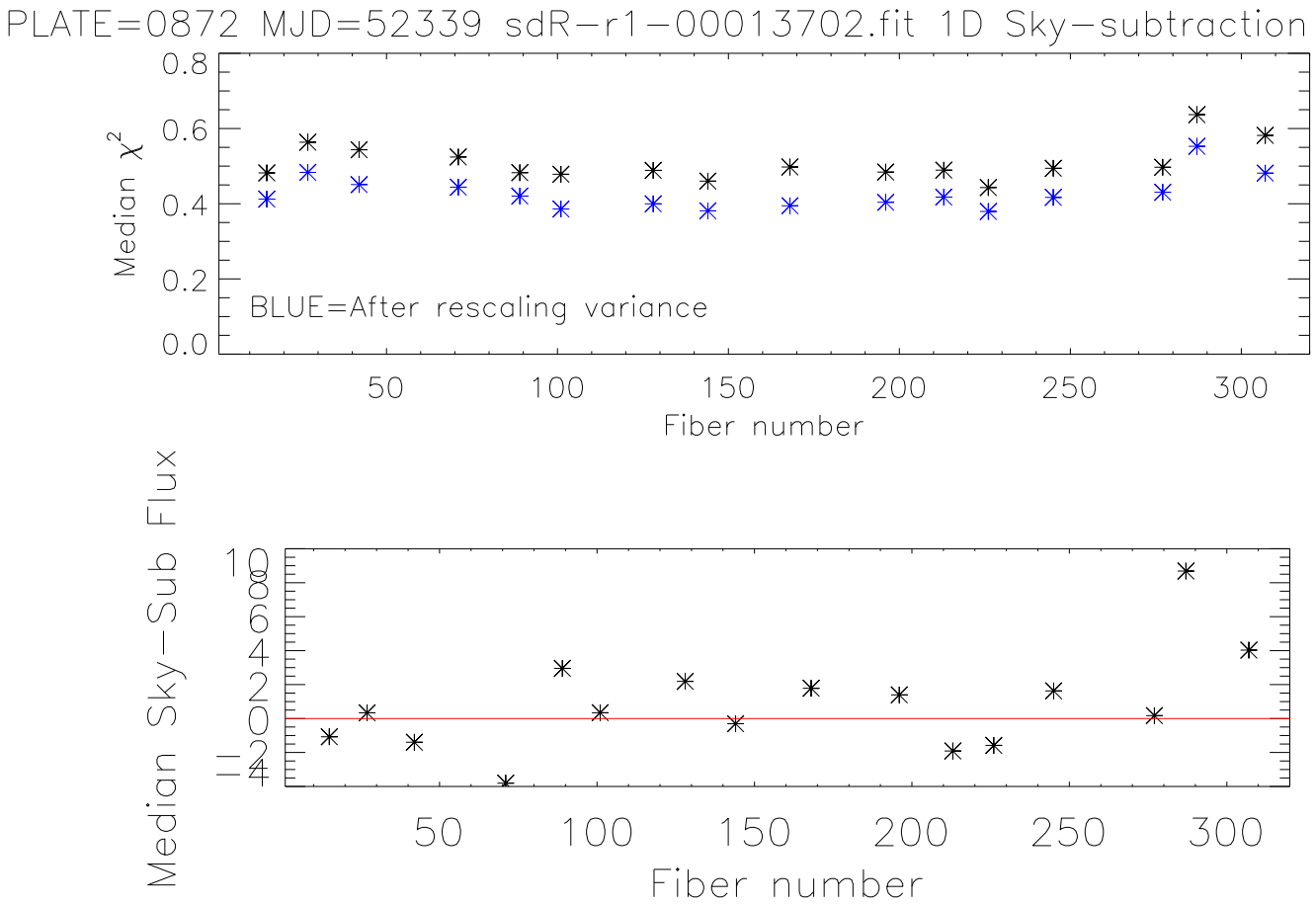

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

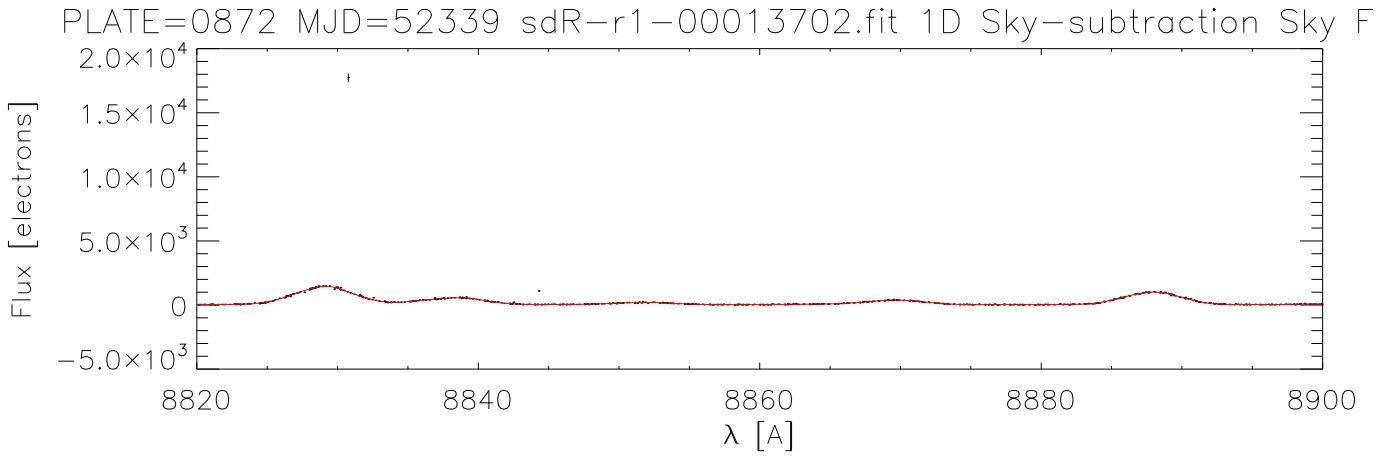

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

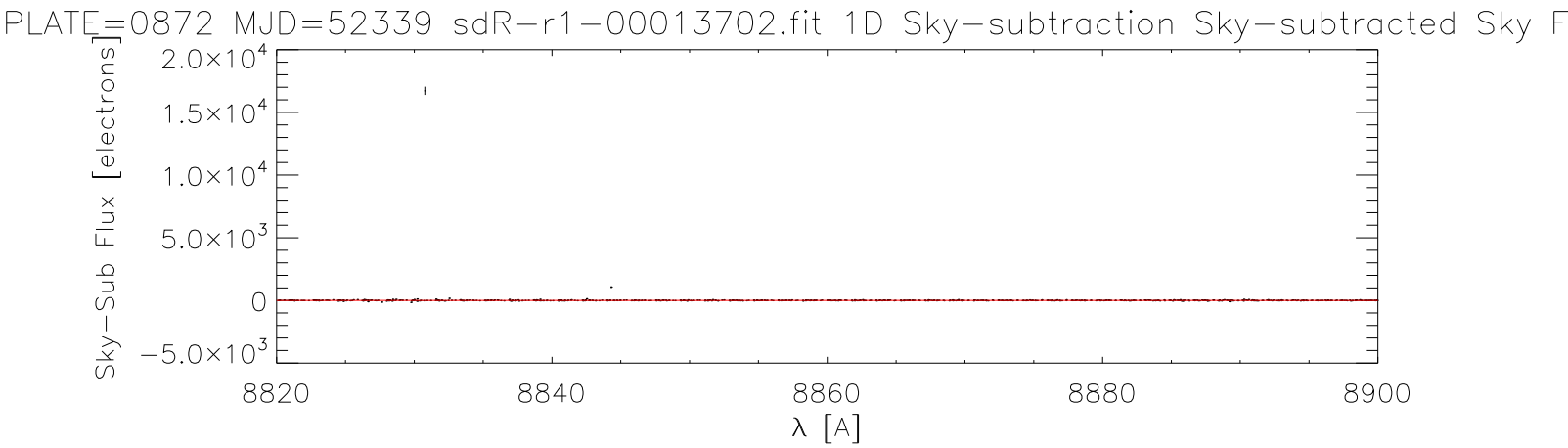

6300.3040
stdev 0.022
extra 0.24
6363.7760
stdev 0.033
extra 0.23
6553.6100
stdev 0.091
extra 0.27
6923.2100
stdev 0.069
extra 0.20
6949.0300
stdev 0.058
extra 0.26
7571.7500
stdev 0.051
extra 0.31
7794.1200
stdev 0.043
extra 0.11
7821.5100
stdev 0.040
extra 0.17
8399.1600
stdev 0.040
extra 0.24
8430.1700
stdev 0.027
extra 0.22
8885.8300
stdev 0.028
extra 0.24
8919.6100
stdev 0.022
extra 0.24
meas − pred, pix

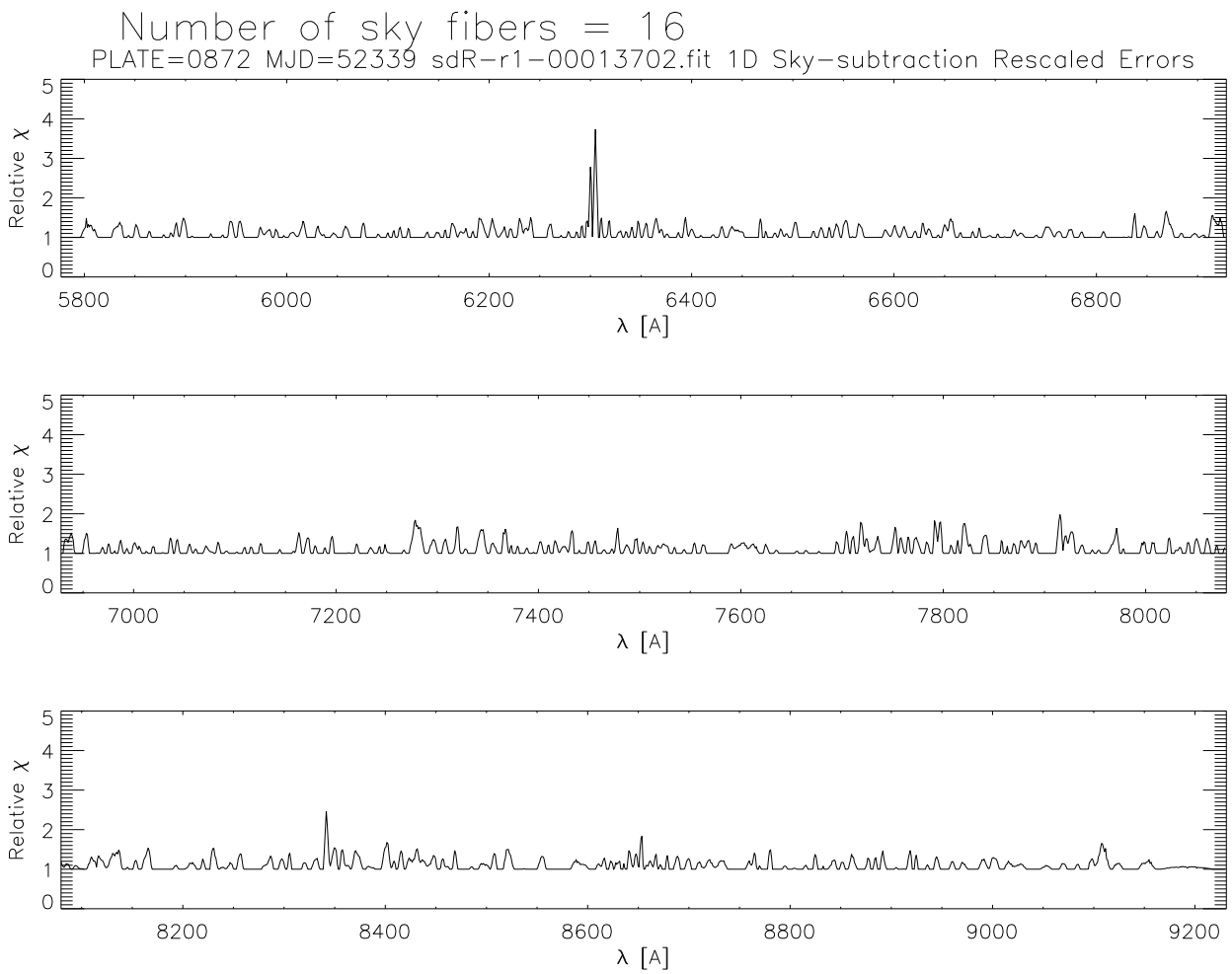

sky shift, pixels
0.30
0.25
0.20
0.15
0.10
5000
6000
7000
8000
9000
10000

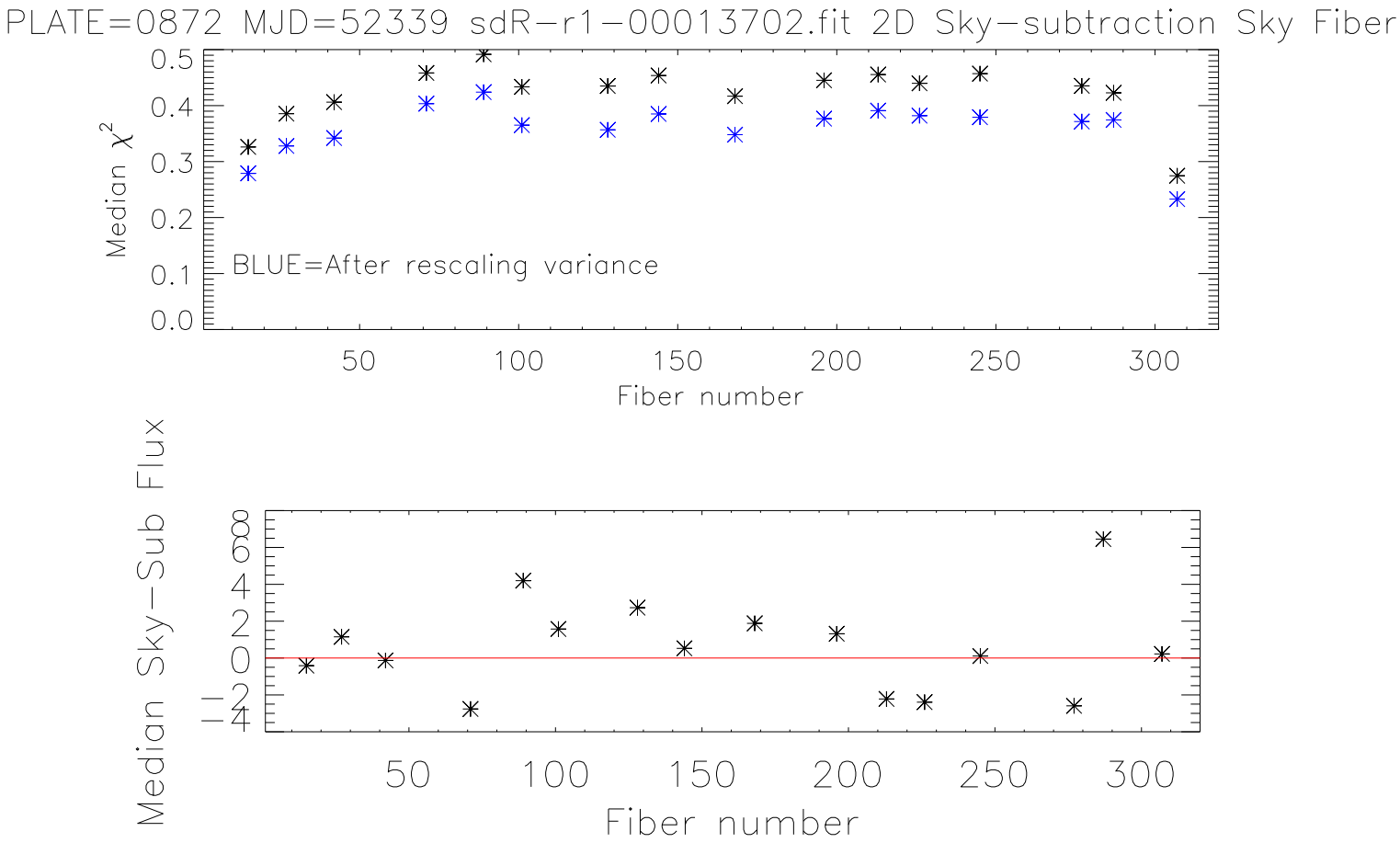

PLATE=0872 MJD=52339 Smooth superflat for sdR-r1-00013702.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
es= 0.0000
6000
7000
8000
9000
Wavelength (Å)

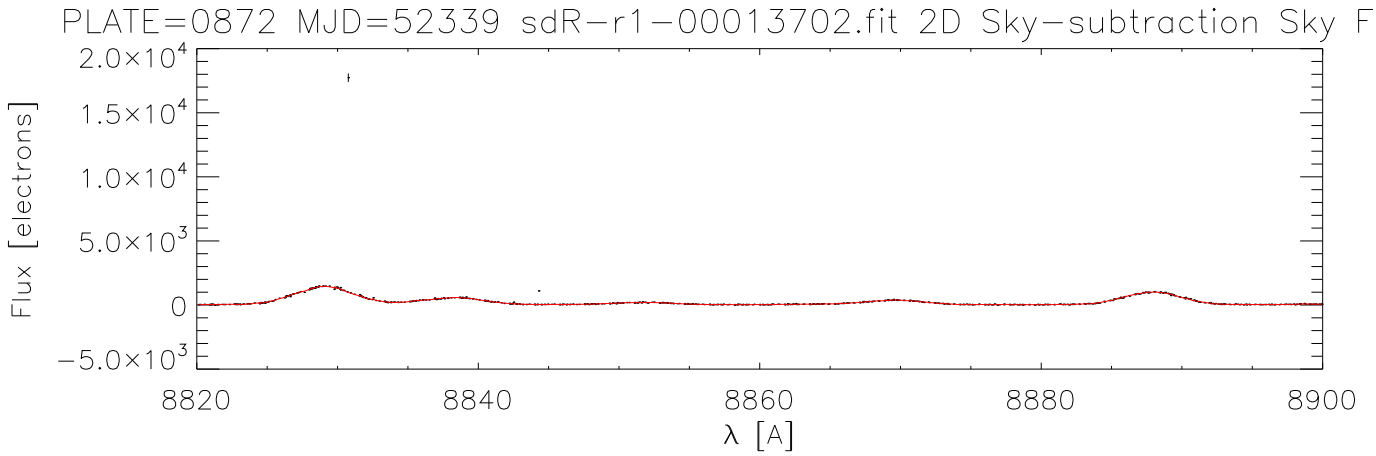

PLATE=0872 MJD=52339 sdR-r1-00013702.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-10
-8
-6
-4
-2
0
2
4
6
8
10
50
100
150
200
250
300
Fiber number

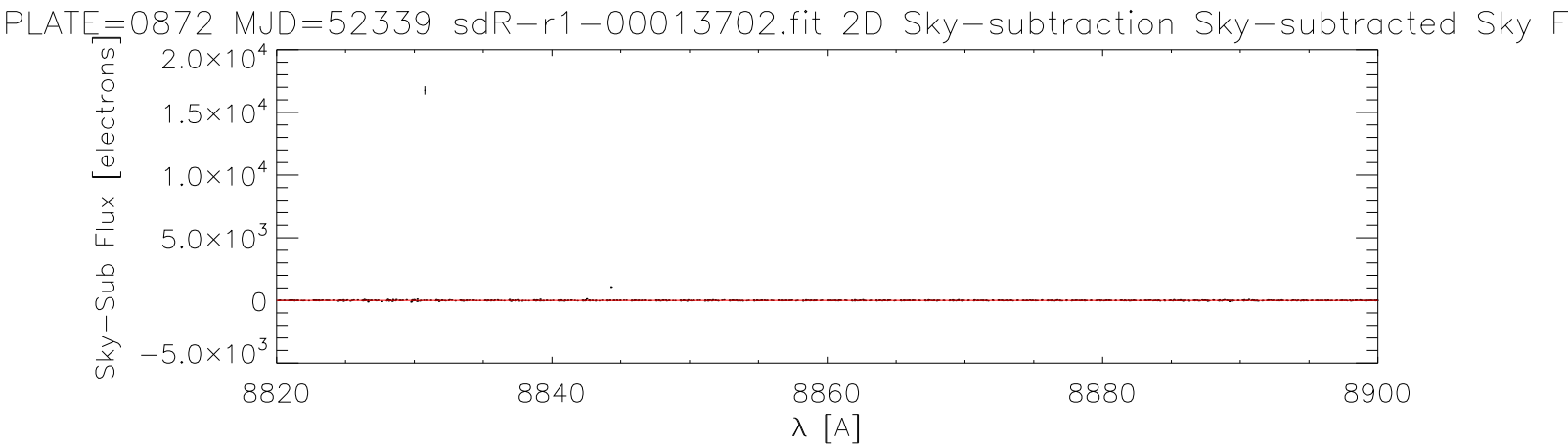

PLATE=0872 MJD=52339 sdR-r1-00013702.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

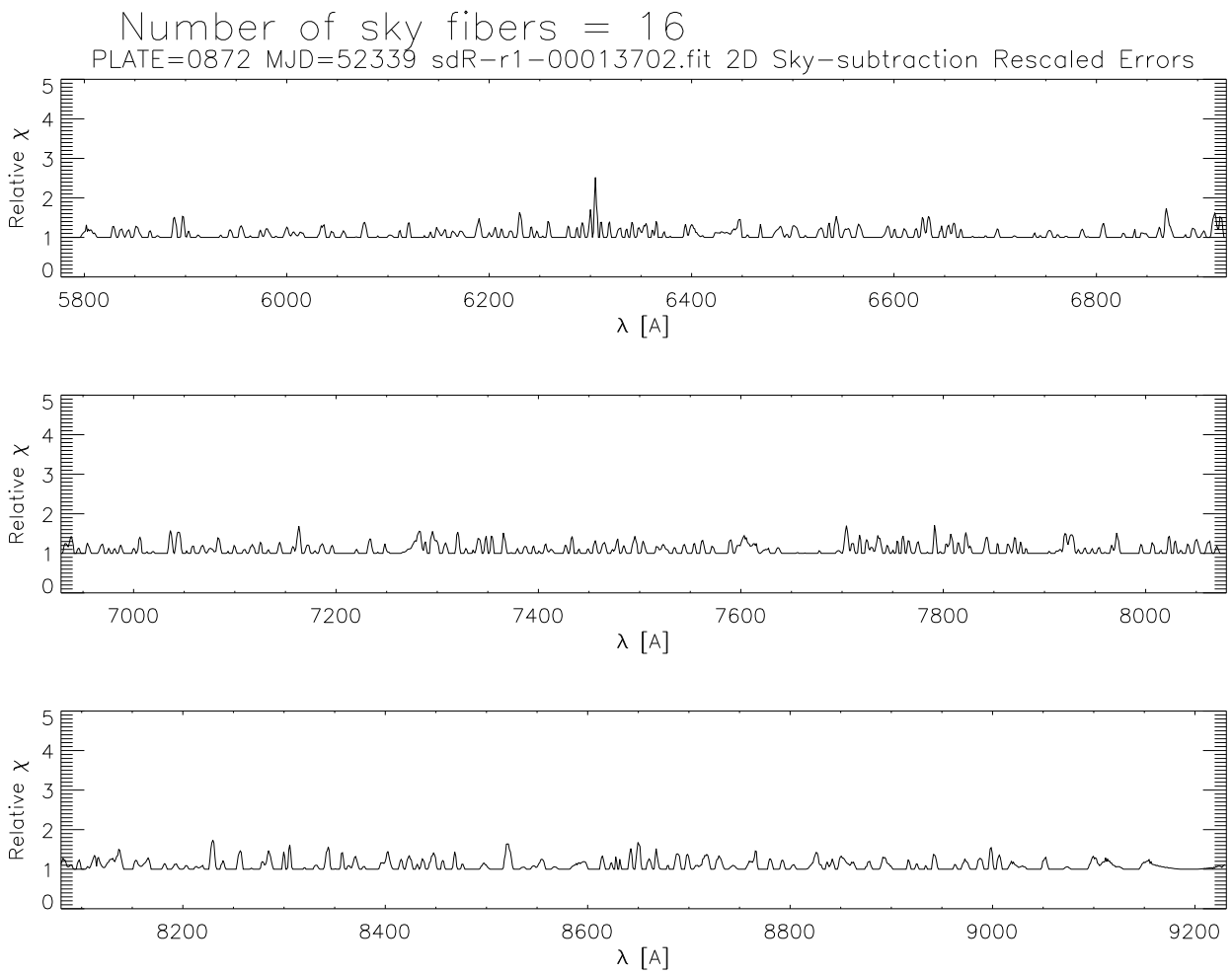

PLATE=0872 MJD=52339 sdR-r1-00013702.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

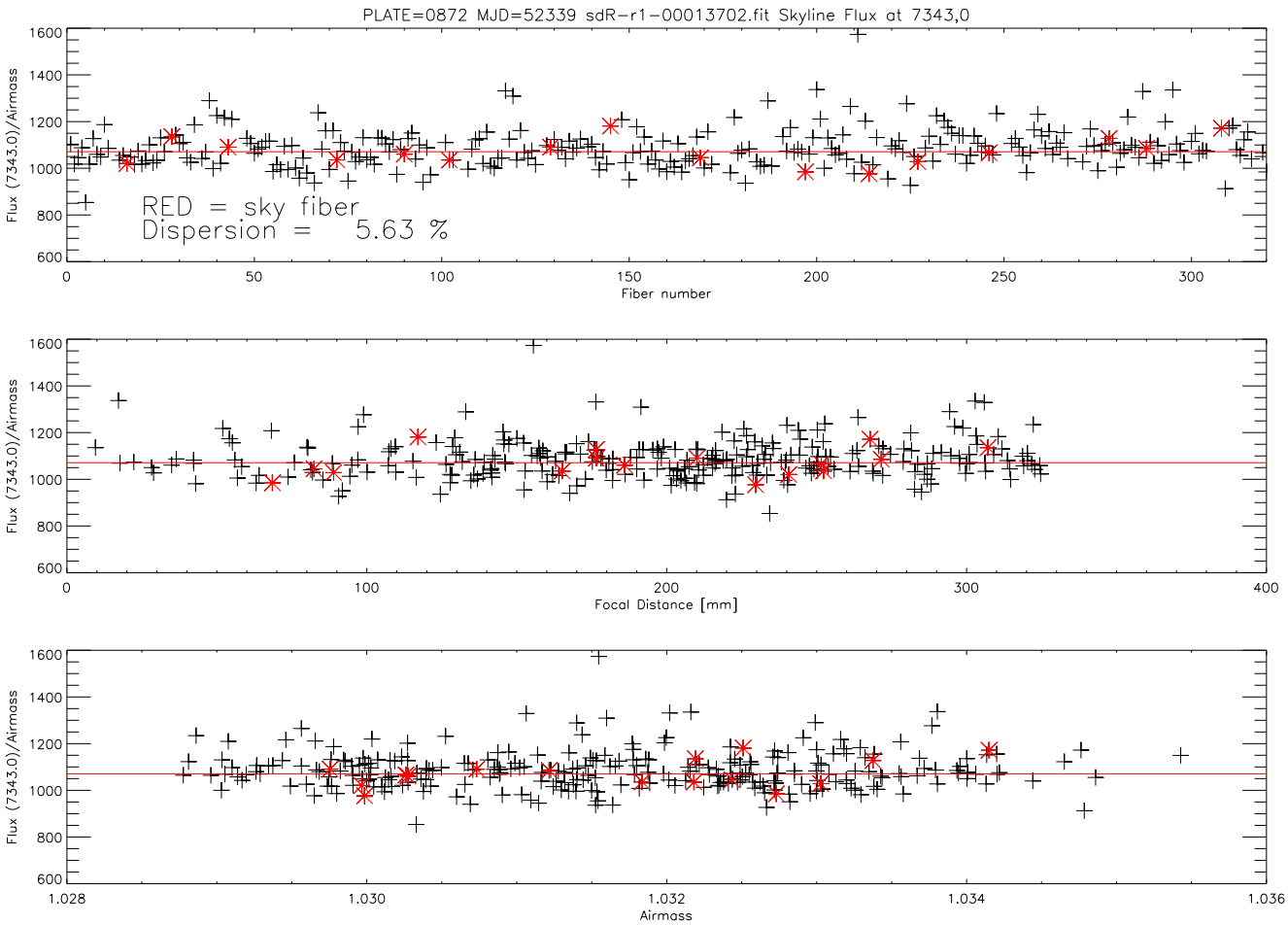

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r1-00013702.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

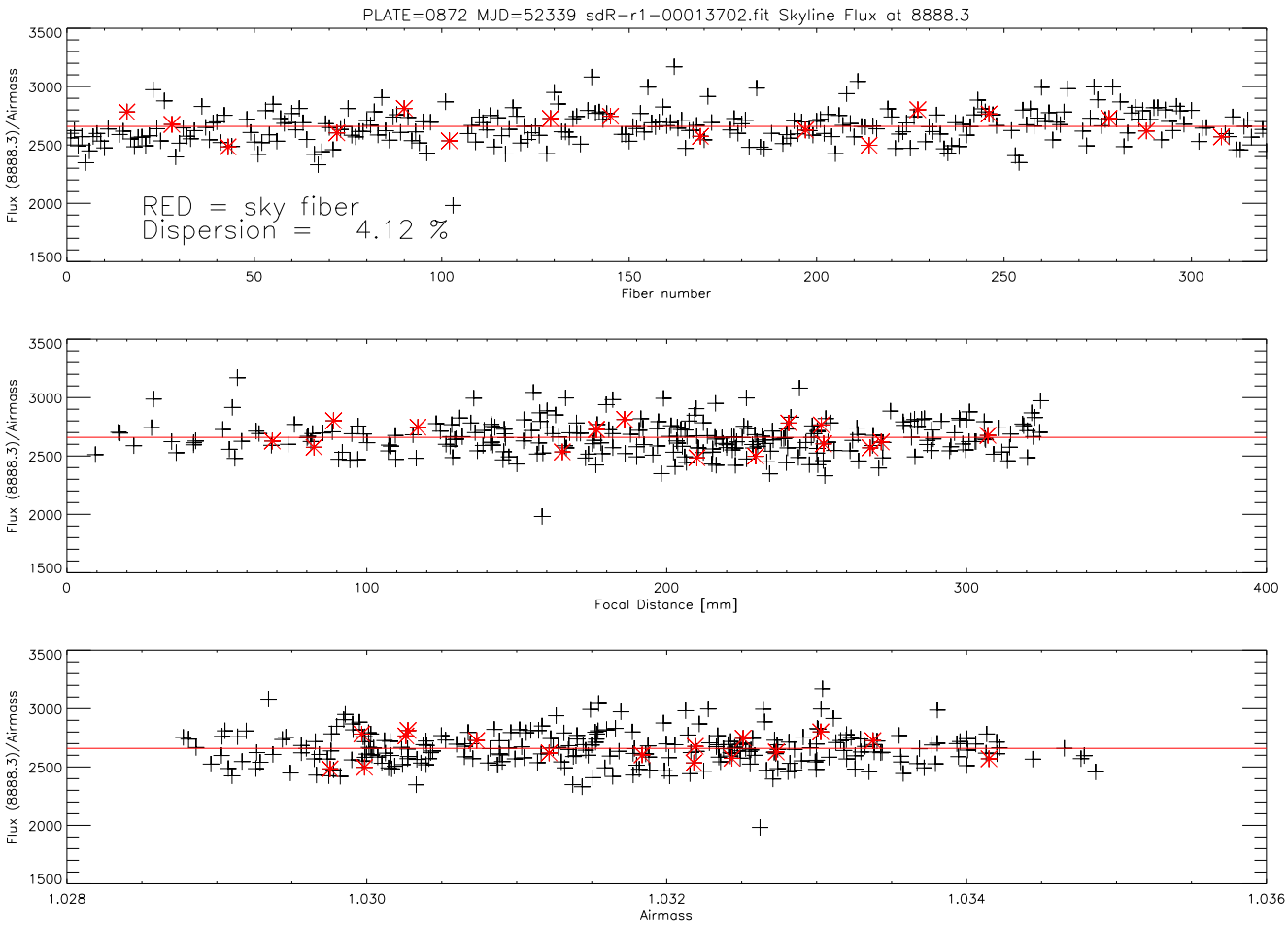

PLATE=0872 MJD=52339 sdR-r1-00013702.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

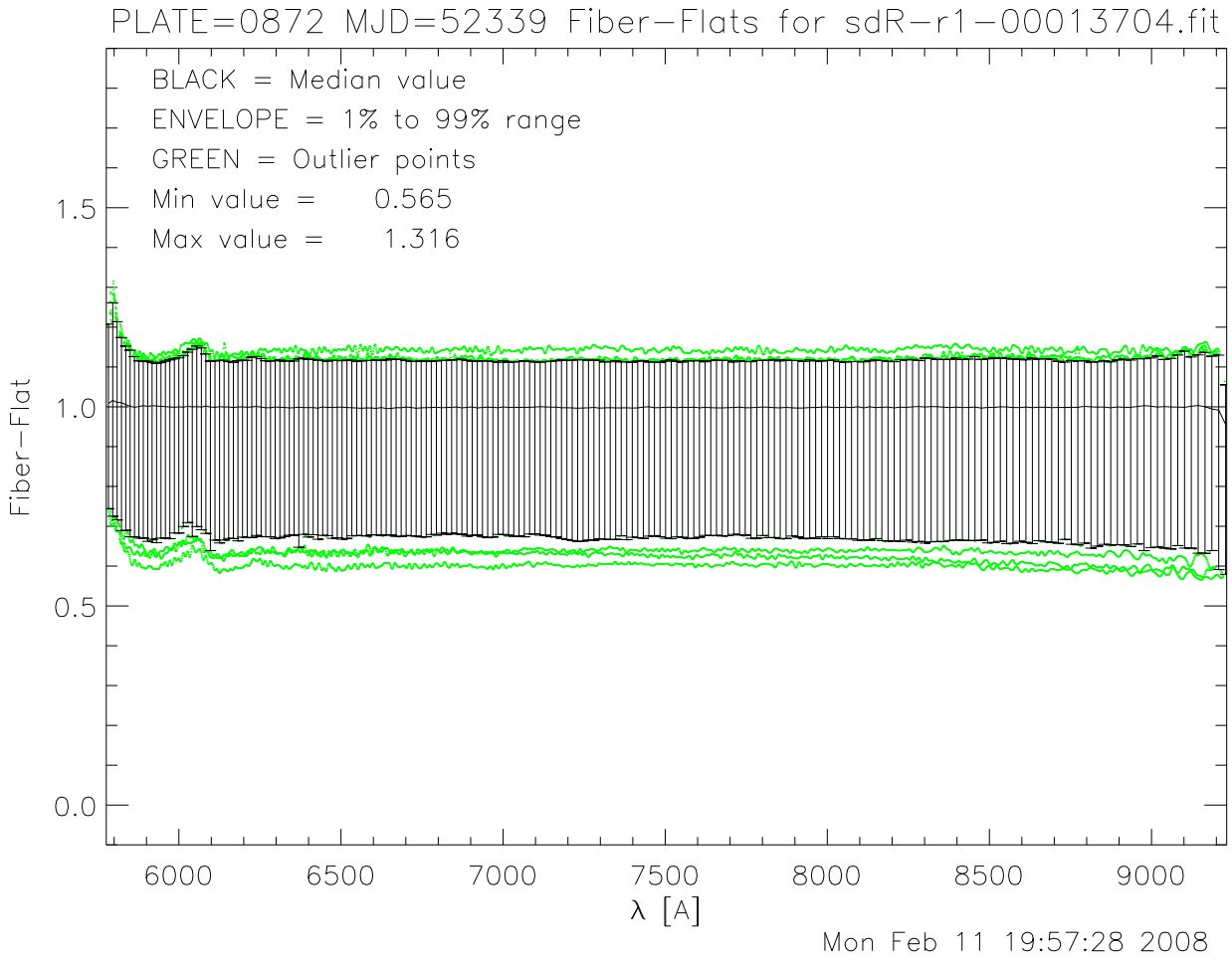

PLATE=0872 MJD=52339 sdR-r1-00013702.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

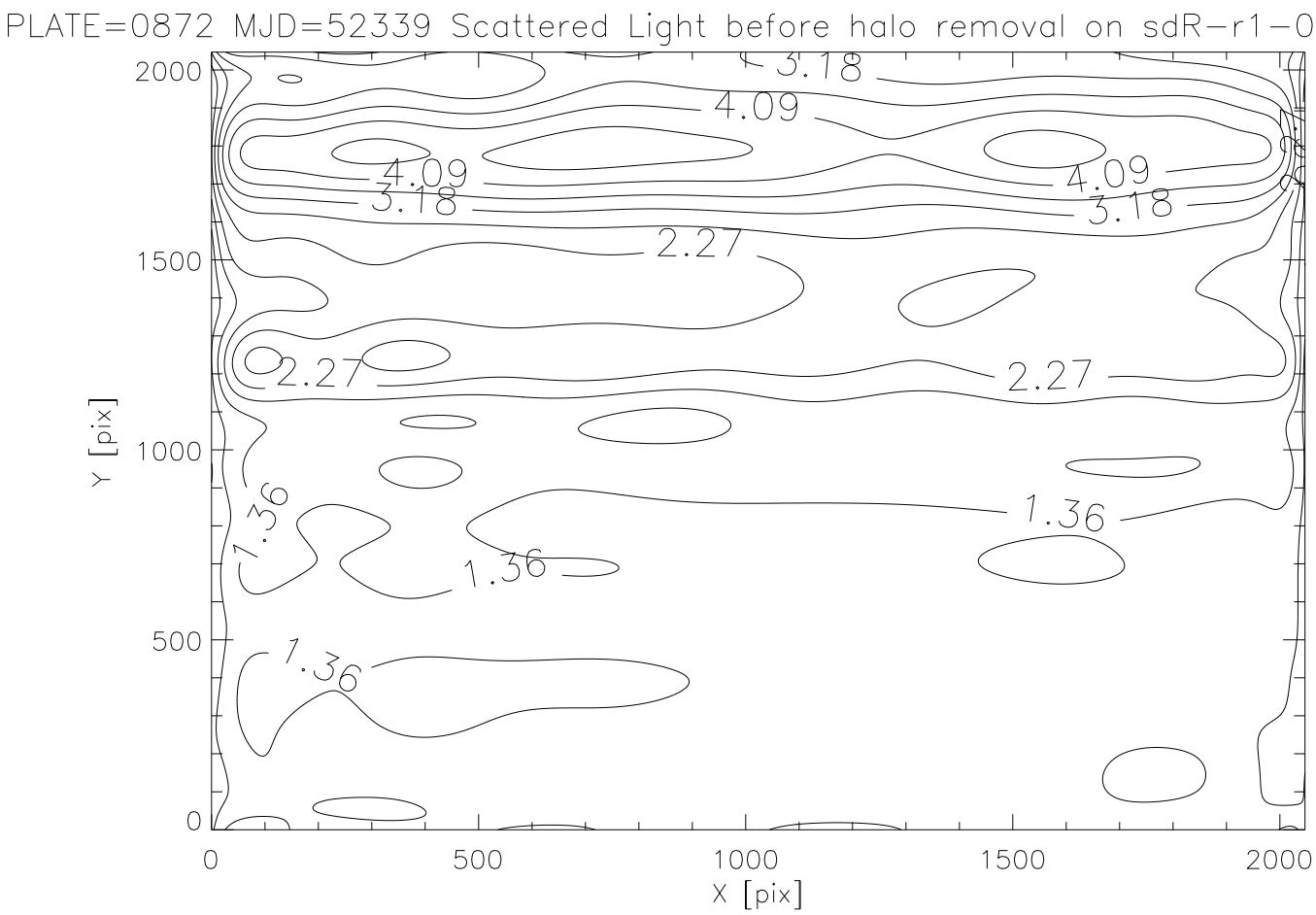

PLATE=0872 MJD=52339 sdR-r1-00013702.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
−5.0×10^3
8820
8840
8860
8880
8900
λ [A]

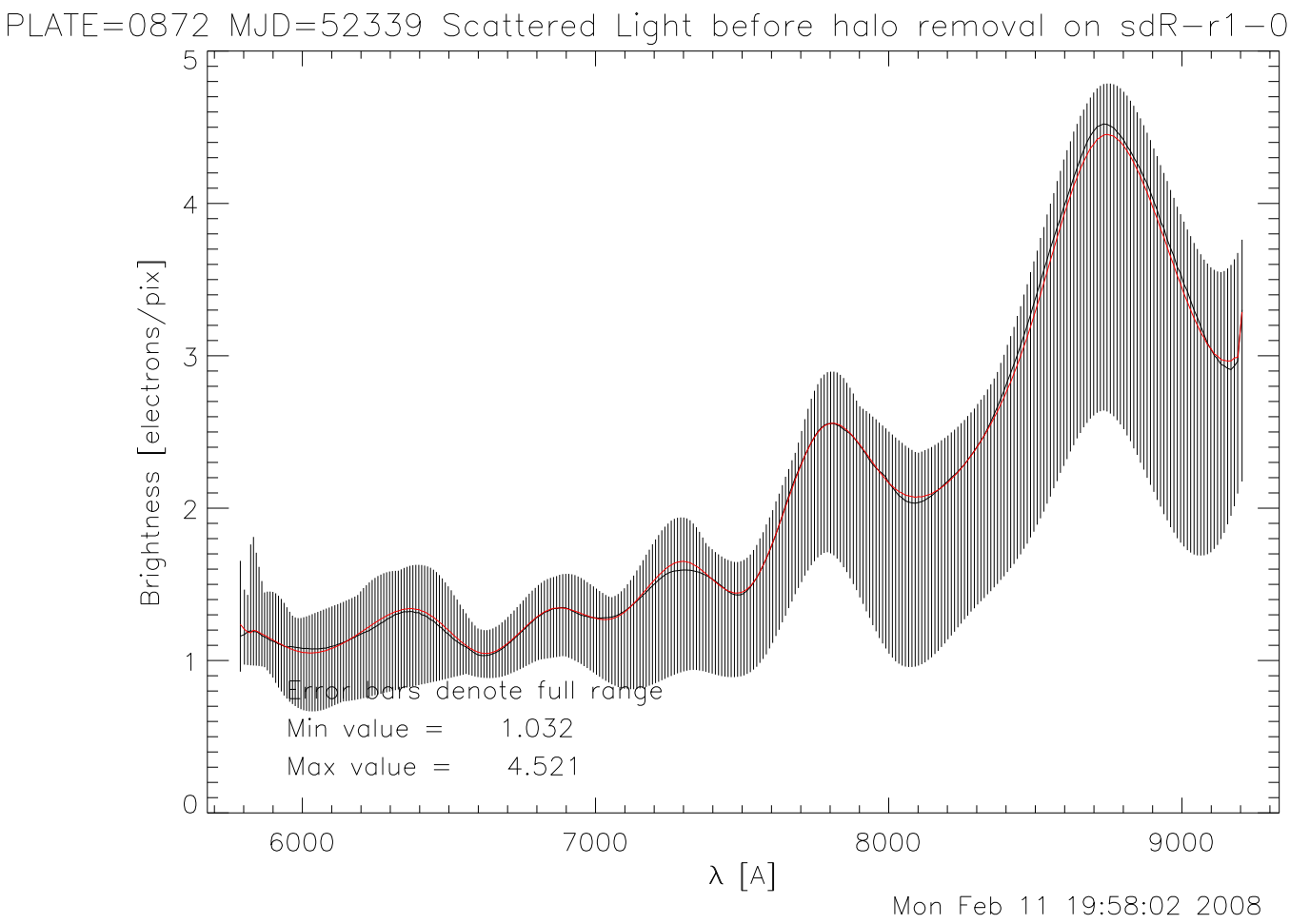

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r1-00013702.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

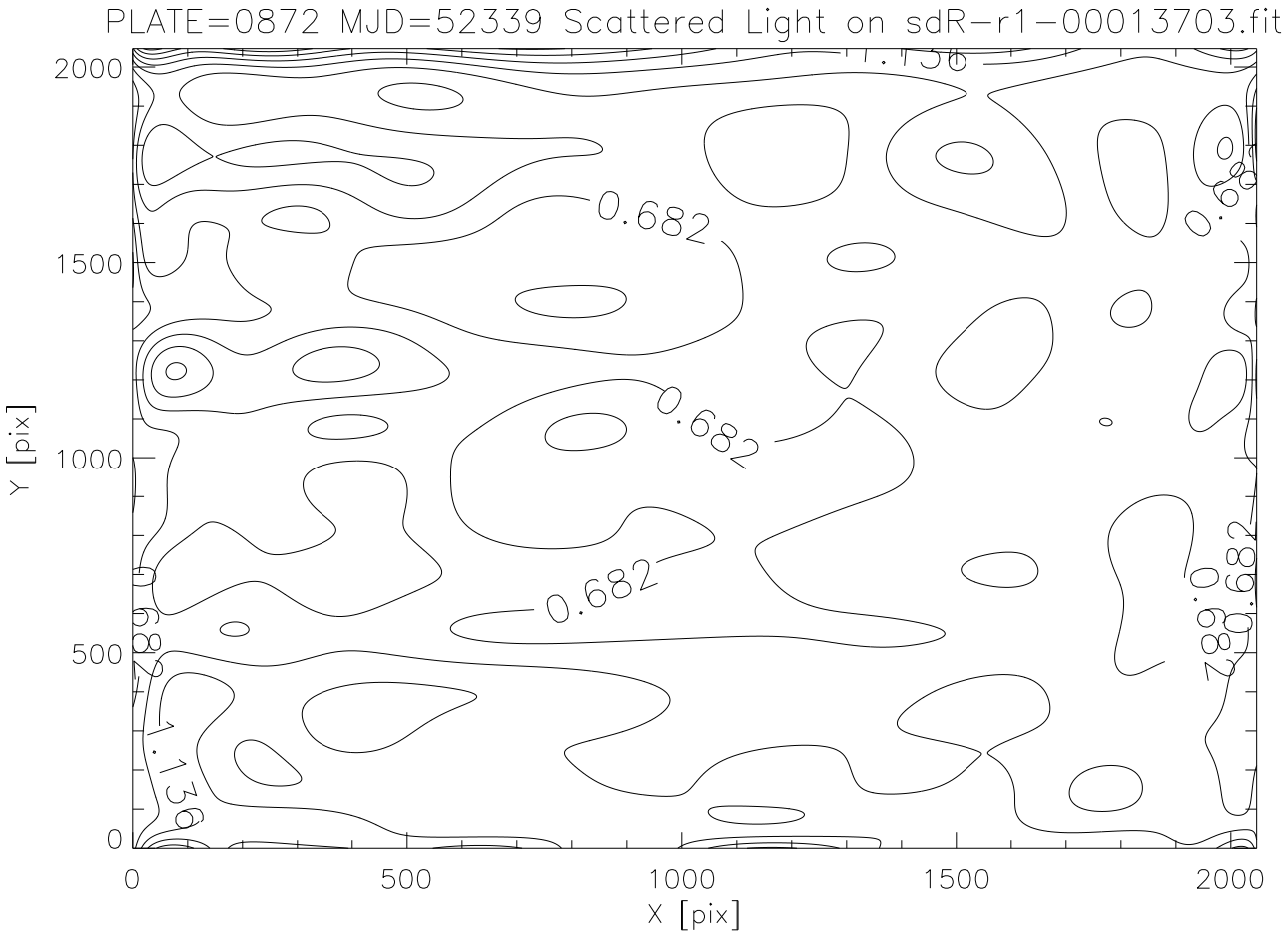

PLATE=0872 MJD=52339 sdR-r1-00013702.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 5.63 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

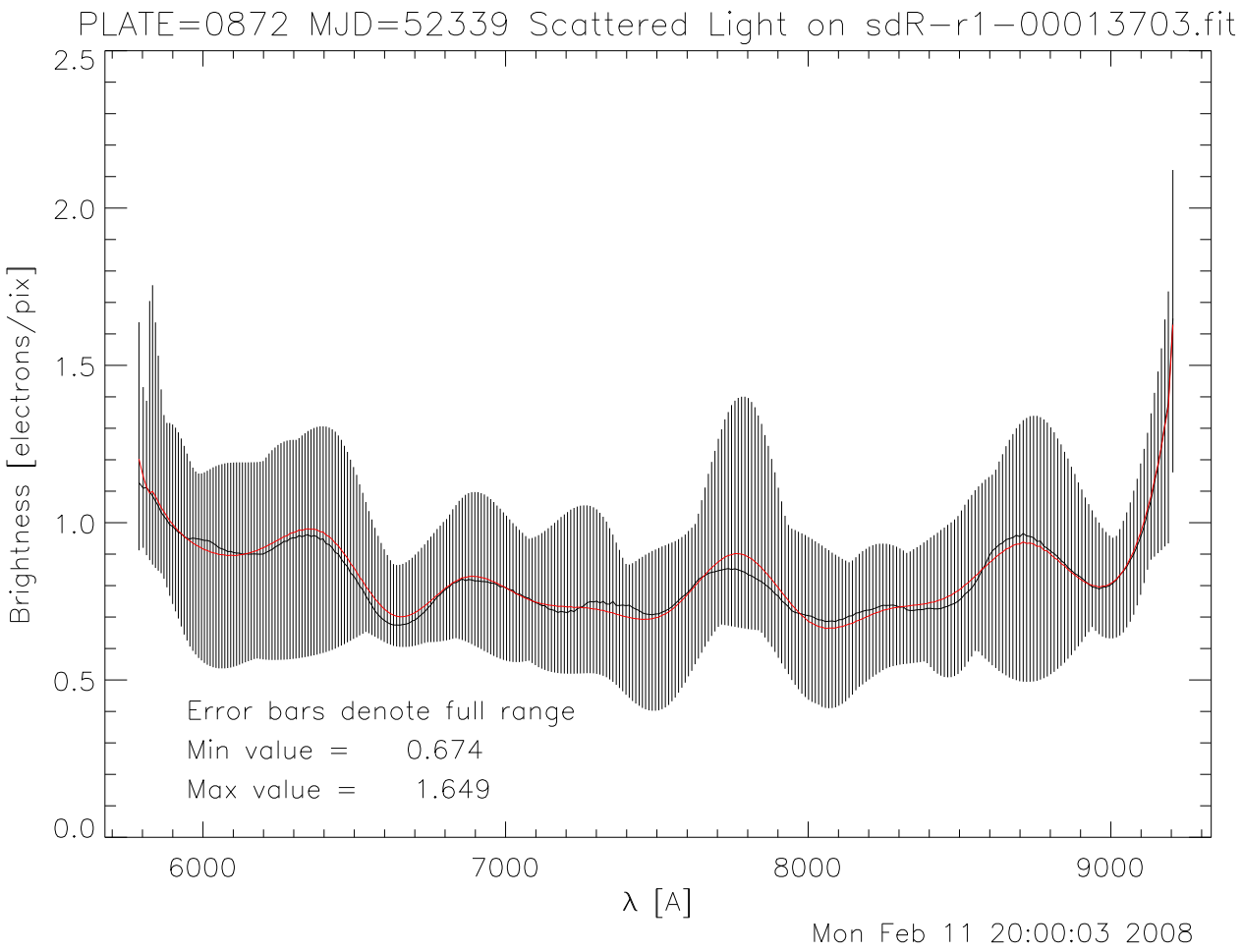

PLATE=0872 MJD=52339 sdR-r1-00013702.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.12 %
Fiber number
Focal Distance [mm]
Airmass

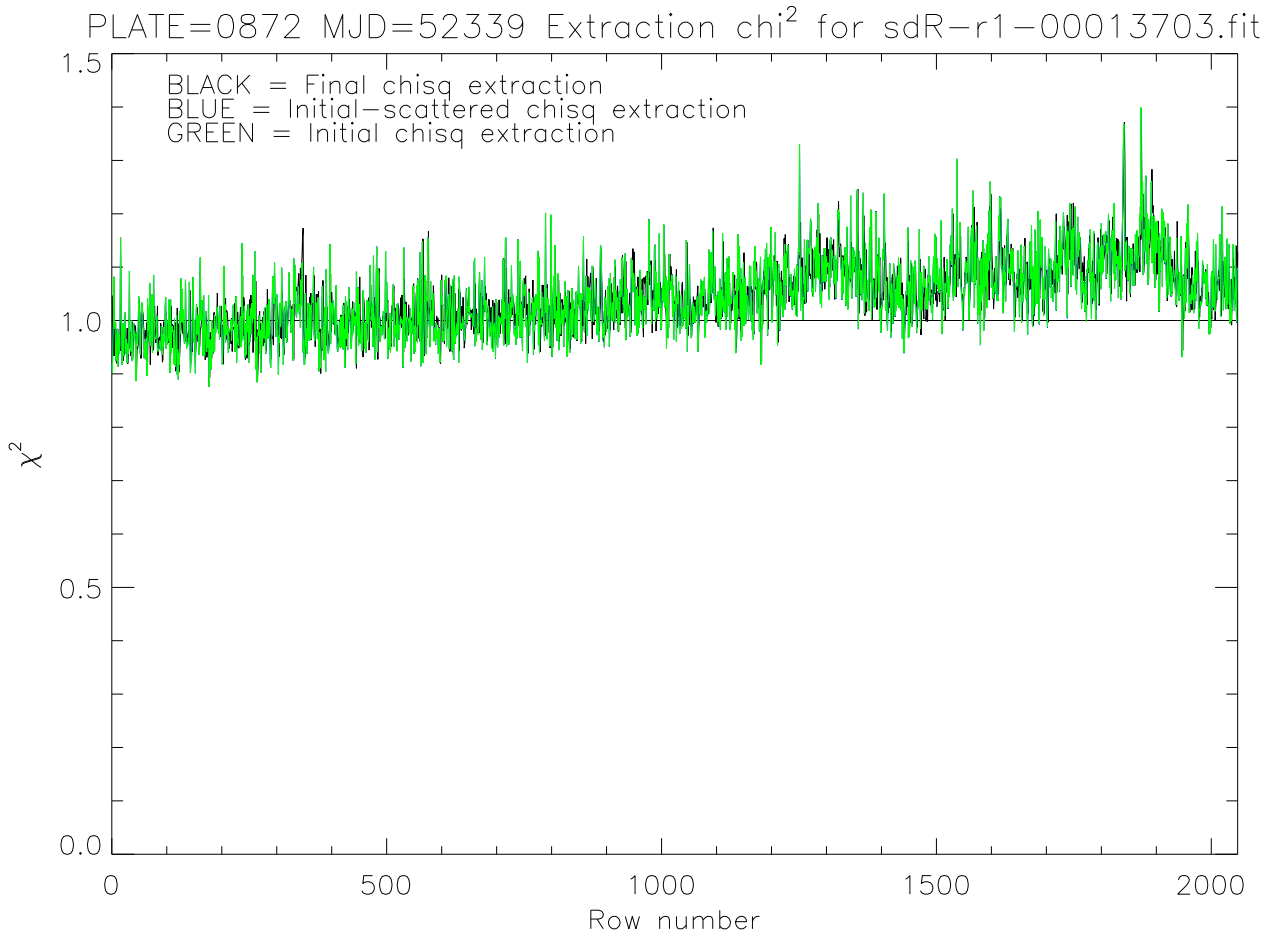

PLATE=0872 MJD=52339 Fiber−Flats for sdR−r1−00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.565
Max value = 1.316
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 19:57:28 2008

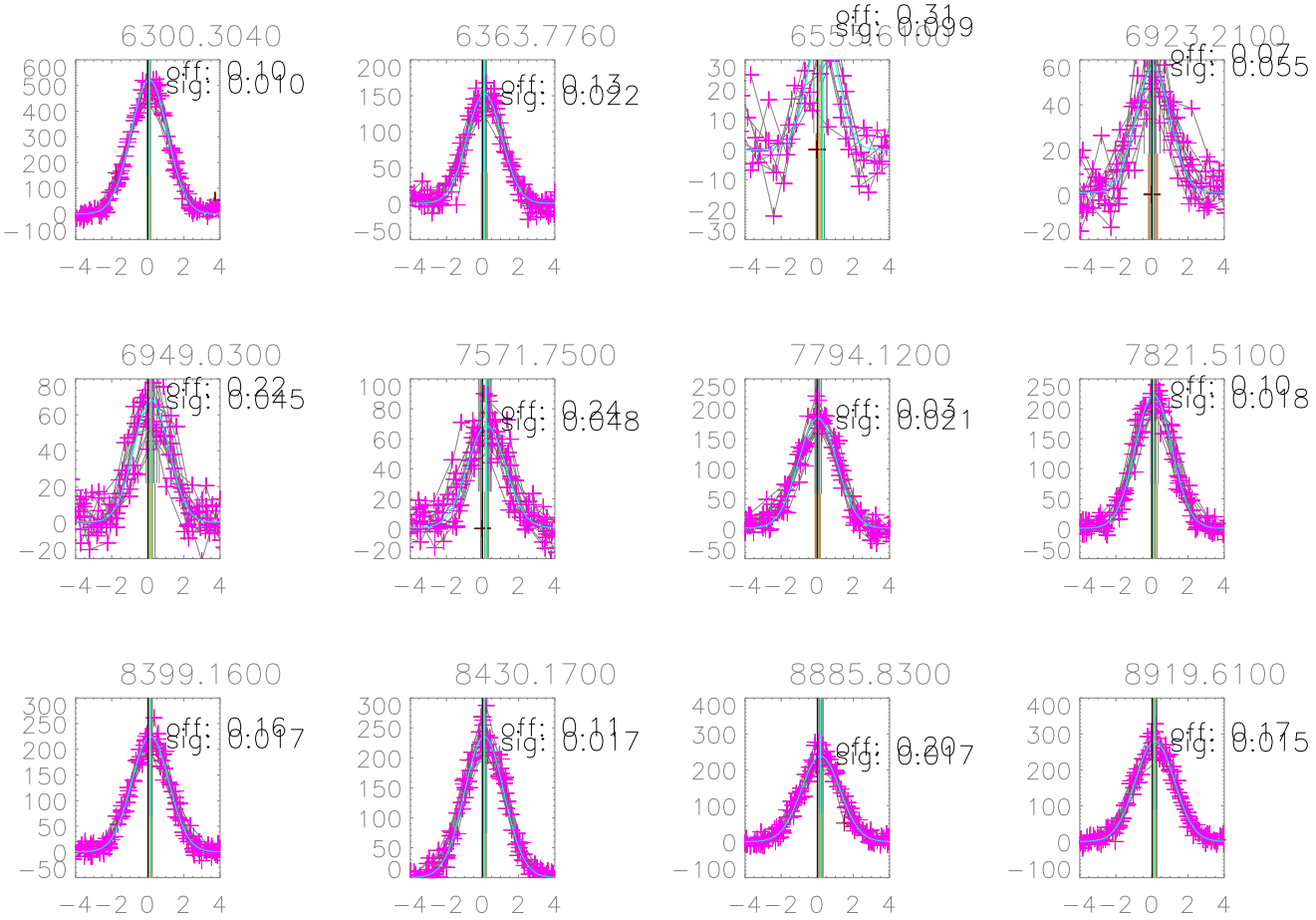

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r1-00013703.fi
3.18
4.09
4.09
3.18
4.09
3.18
2.27
2.27
2.27
1.36
1.36
1.36
1.36
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

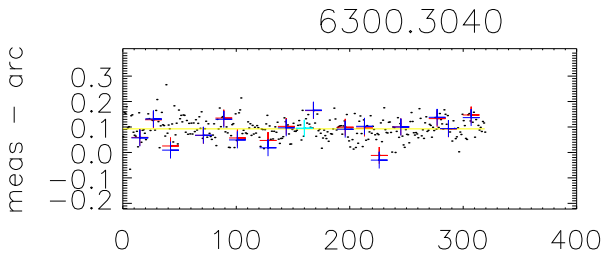

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r1-00013703.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.032
Max value = 4.521
Mon Feb 11 19:58:02 2008

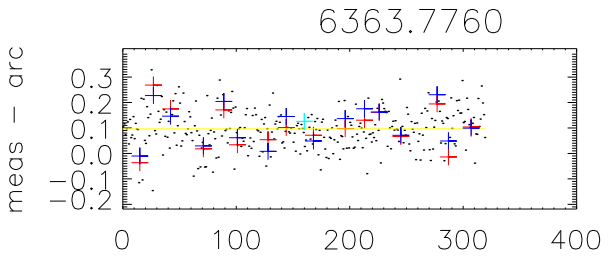

PLATE=0872 MJD=52339 Scattered Light on sdR-r1-00013703.fit
0.682
1.136
Y [pix]
X [pix]
0
500
1000
1500
2000

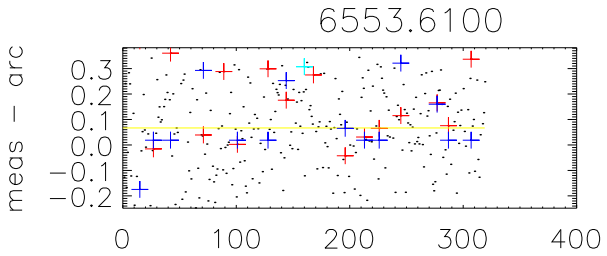

PLATE=0872 MJD=52339 Scattered Light on sdR-r1-00013703.fit
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.674
Max value = 1.649
6000
7000
8000
9000
λ [A]
Mon Feb 11 20:00:03 2008

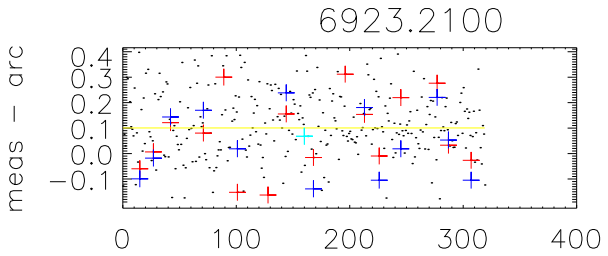

PLATE=0872 MJD=52339 Extraction chi^2 for sdR−r1−00013703.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
1.5
1.0
0.5
0.0
χ^2
0
500
1000
1500
2000
Row number

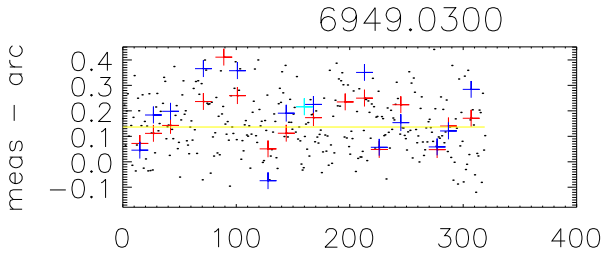

6300.3040
off: 0.10
sig: 0.010
6363.7760
off: 0.13
sig: 0.022
6553.6100
off: 0.31
sig: 0.099
6923.2100
off: 0.07
sig: 0.055
6949.0300
off: 0.22
sig: 0.045
7571.7500
off: 0.24
sig: 0.048
7794.1200
off: 0.03
sig: 0.021
7821.5100
off: 0.10
sig: 0.018
8399.1600
off: 0.16
sig: 0.017
8430.1700
off: 0.11
sig: 0.017
8885.8300
off: 0.20
sig: 0.017
8919.6100
off: 0.17
sig: 0.015

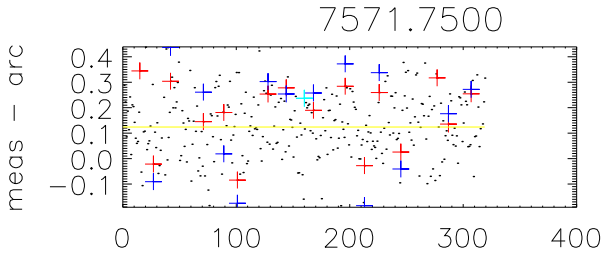

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

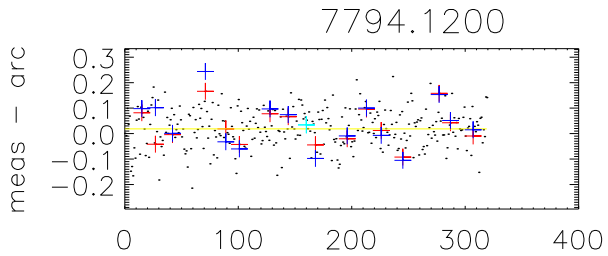

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

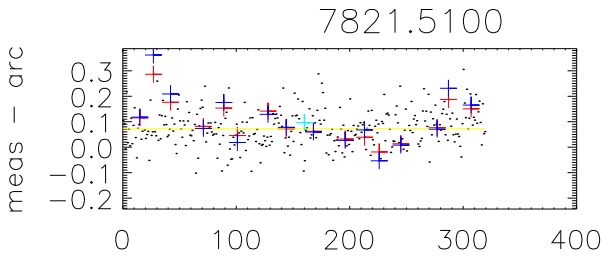

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

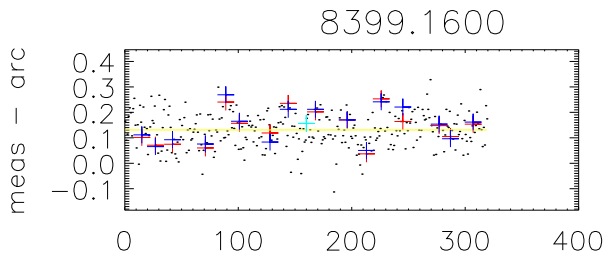

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

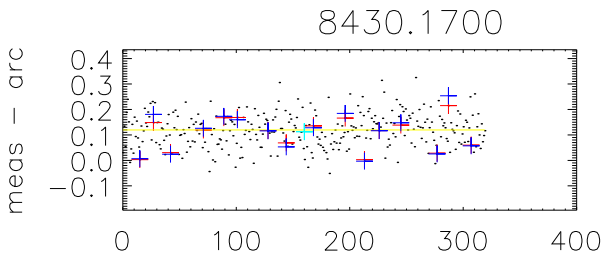

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

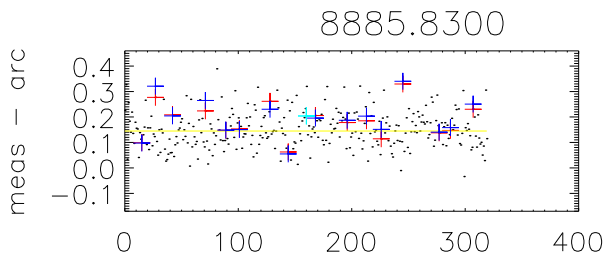

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

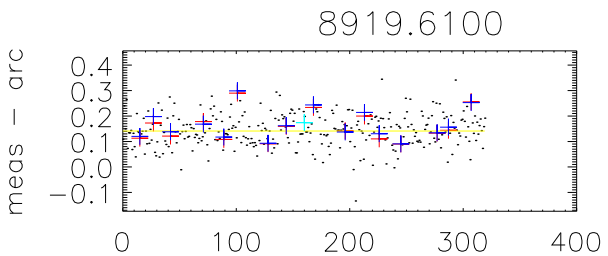

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

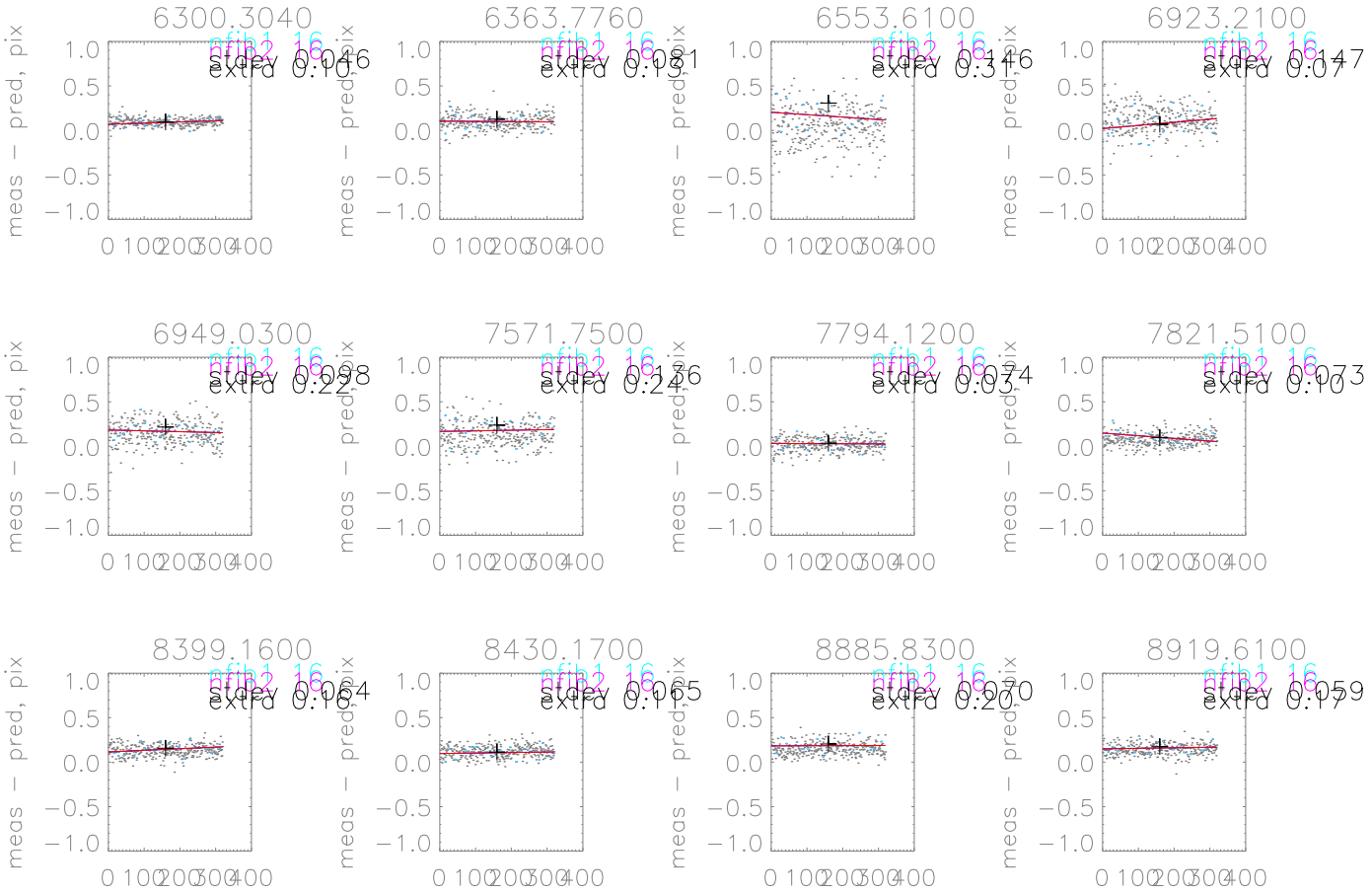

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

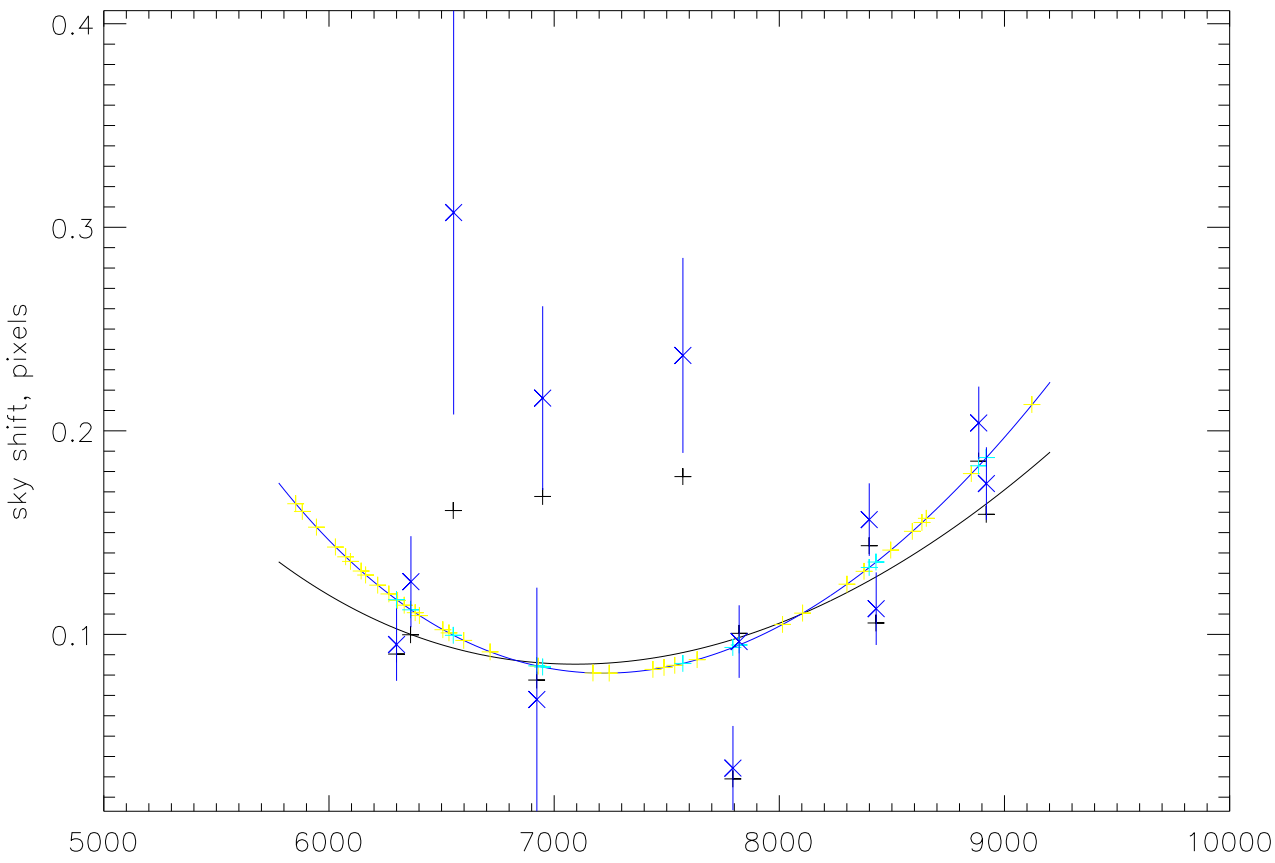

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

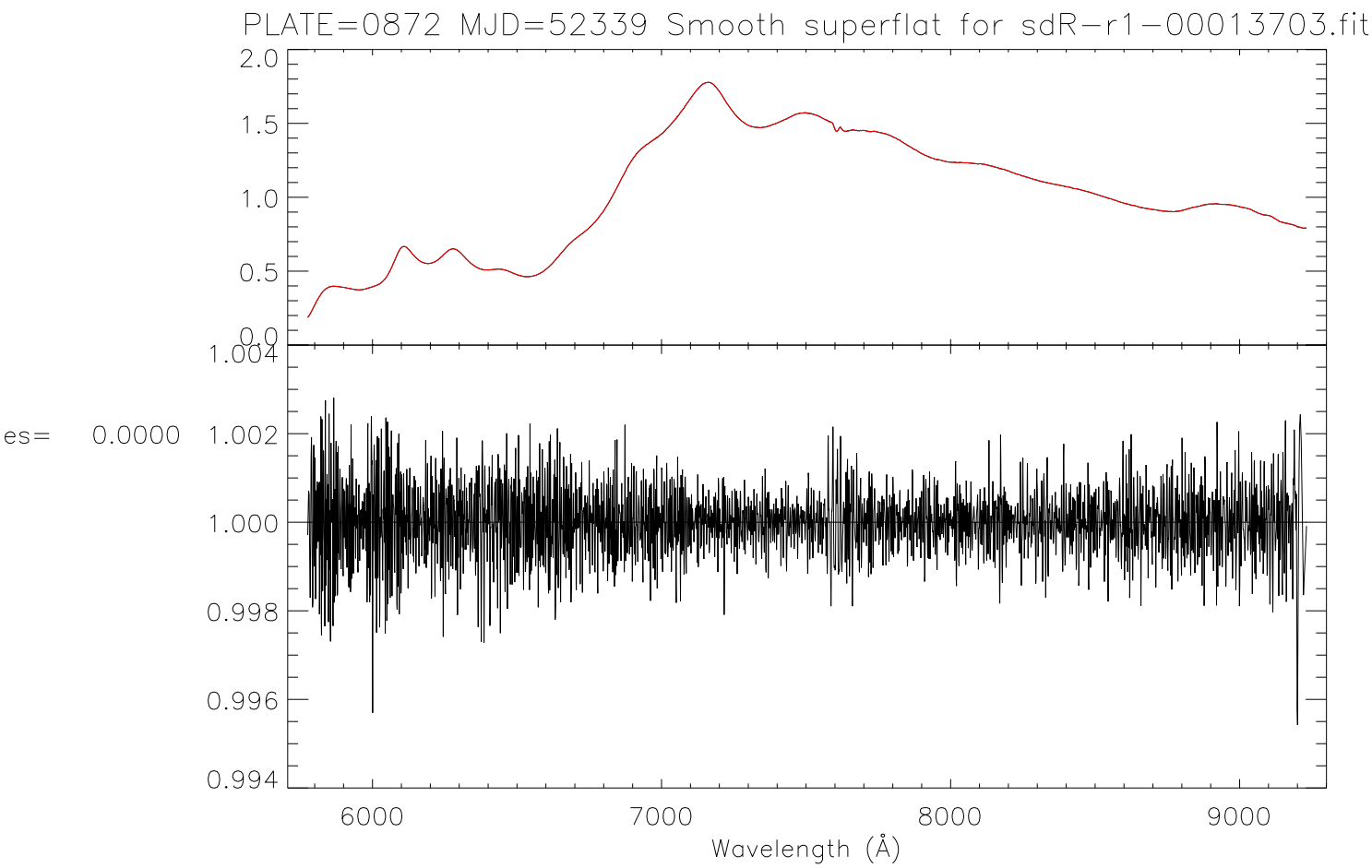

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

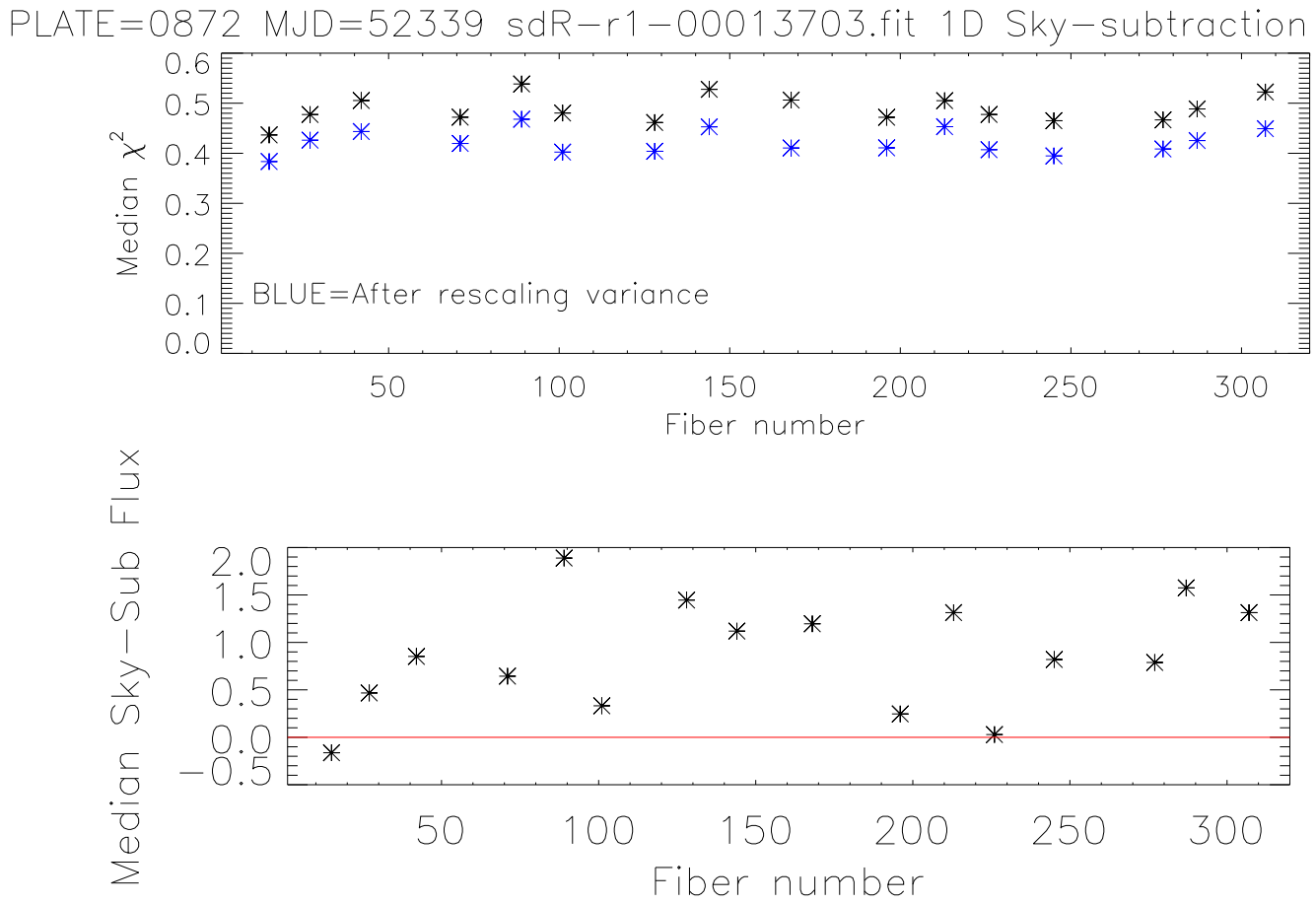

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

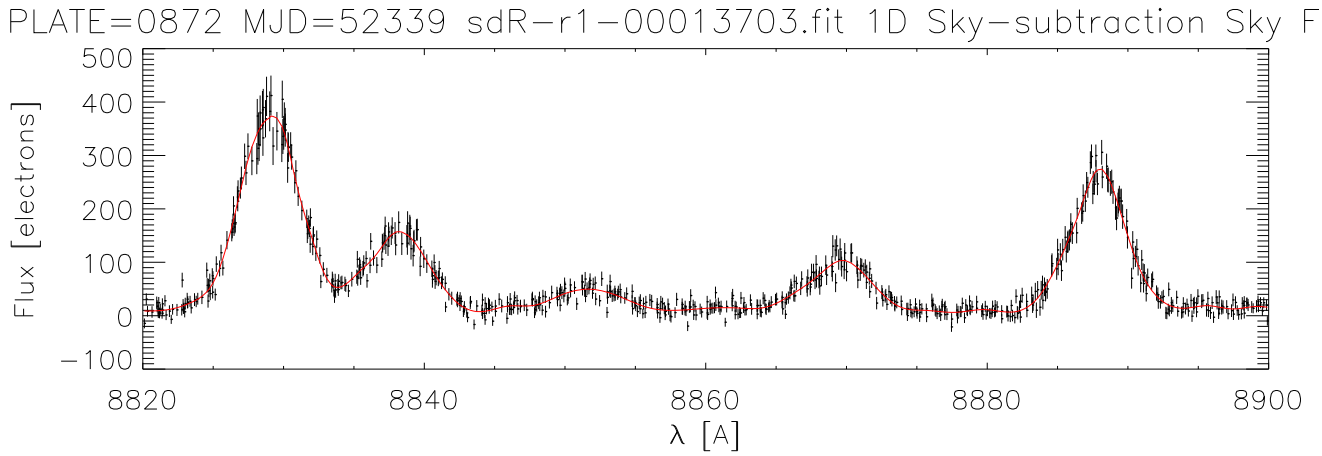

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

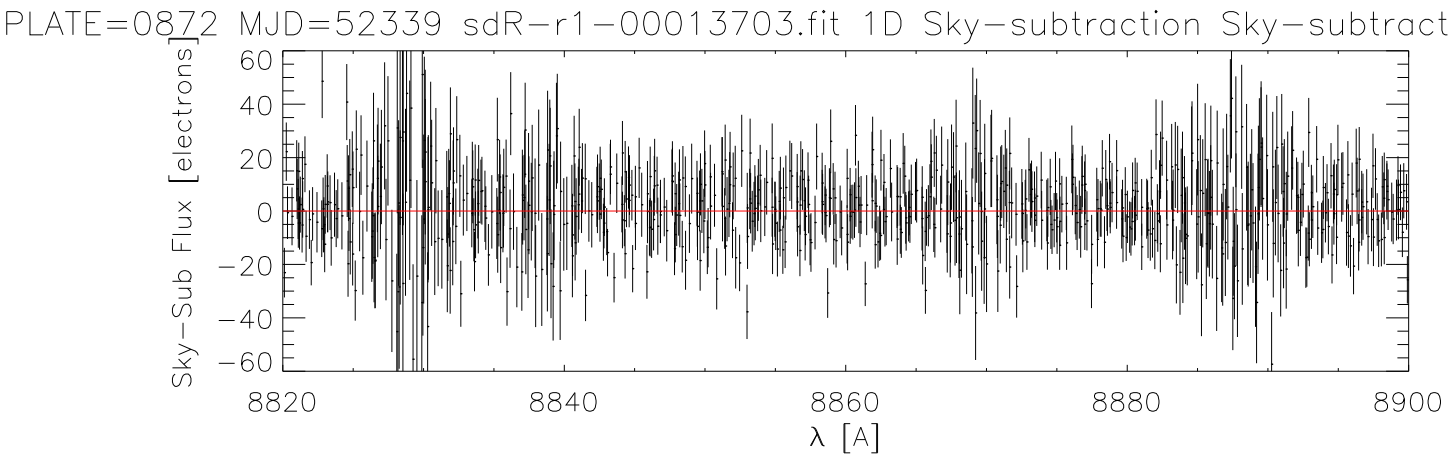

6300.3040
stdev 0.046
extra 0.10
6363.7760
stdev 0.081
extra 0.13
6553.6100
stdev 0.146
extra 0.31
6923.2100
stdev 0.147
extra 0.07
6949.0300
stdev 0.098
extra 0.22
7571.7500
stdev 0.136
extra 0.24
7794.1200
stdev 0.074
extra 0.03
7821.5100
stdev 0.073
extra 0.10
8399.1600
stdev 0.064
extra 0.16
8430.1700
stdev 0.065
extra 0.11
8885.8300
stdev 0.070
extra 0.20
8919.6100
stdev 0.059
extra 0.17
meas − pred, pix
mfib1 16
mfib2 16

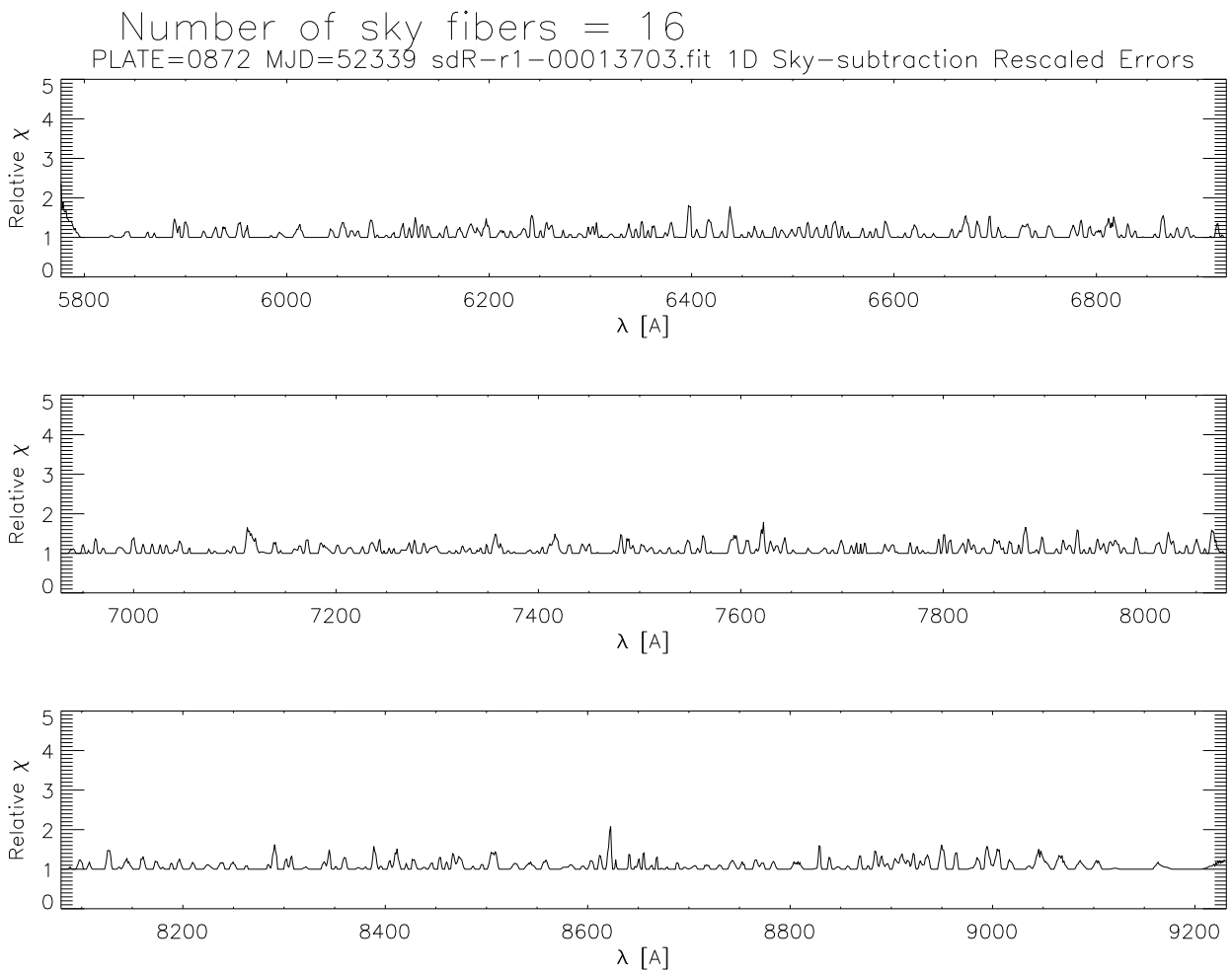

0.4
0.3
0.2
0.1
sky shift, pixels
5000
6000
7000
8000
9000
10000

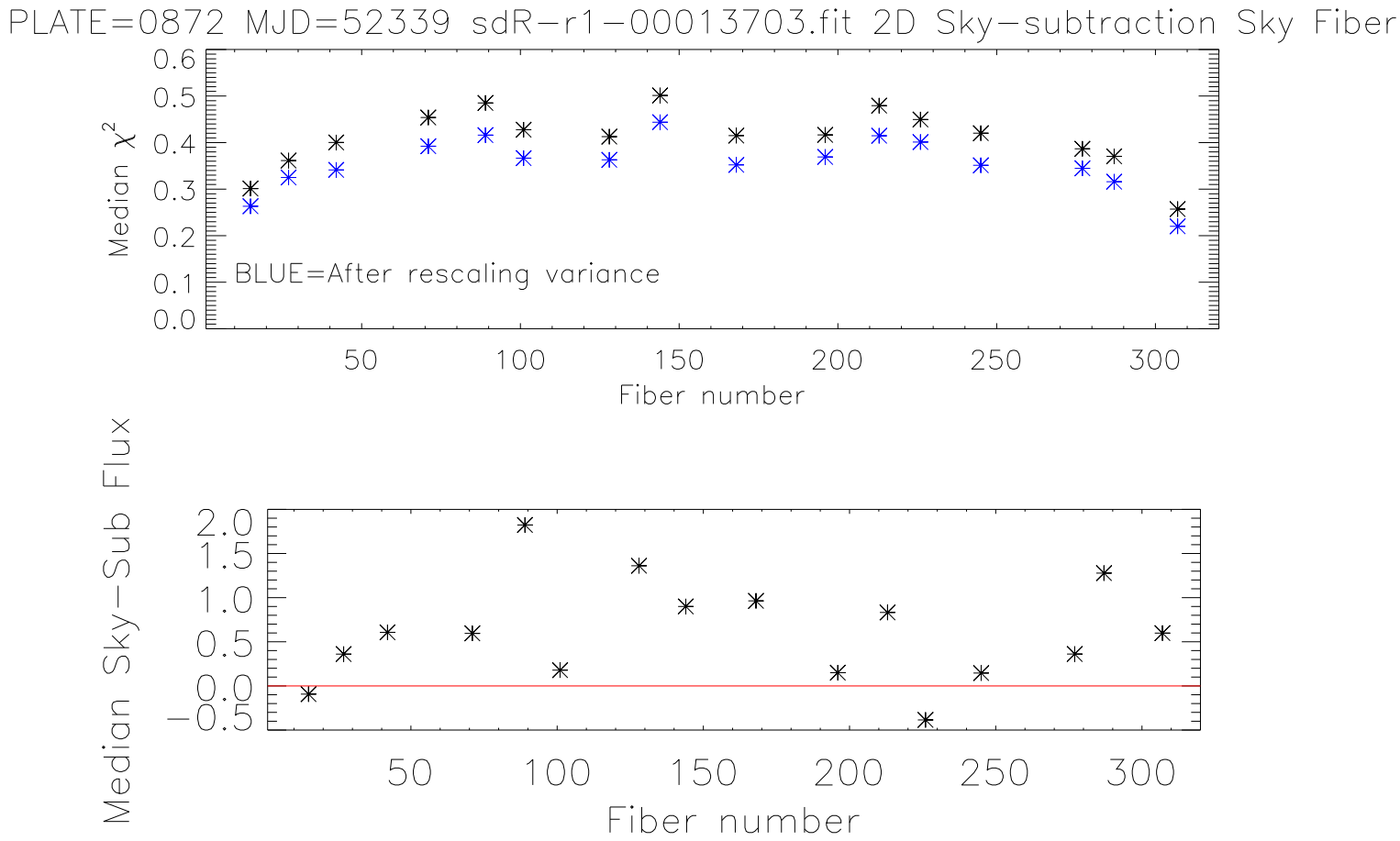

PLATE=0872 MJD=52339 Smooth superflat for sdR-r1-00013703.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
es= 0.0000
6000
7000
8000
9000
Wavelength (Å)

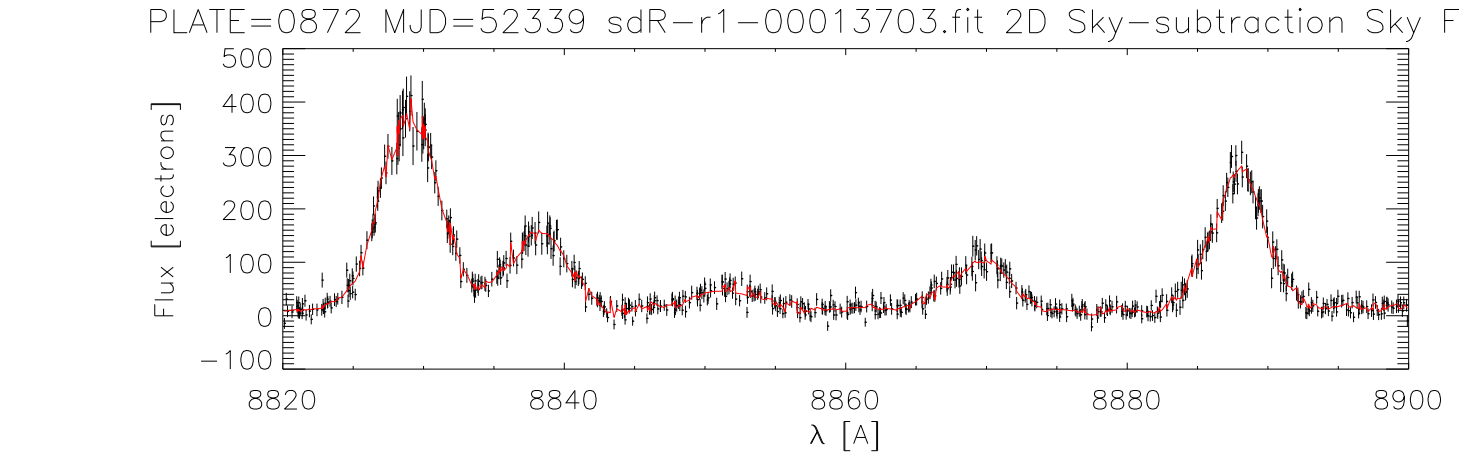

PLATE=0872 MJD=52339 sdR-r1-00013703.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

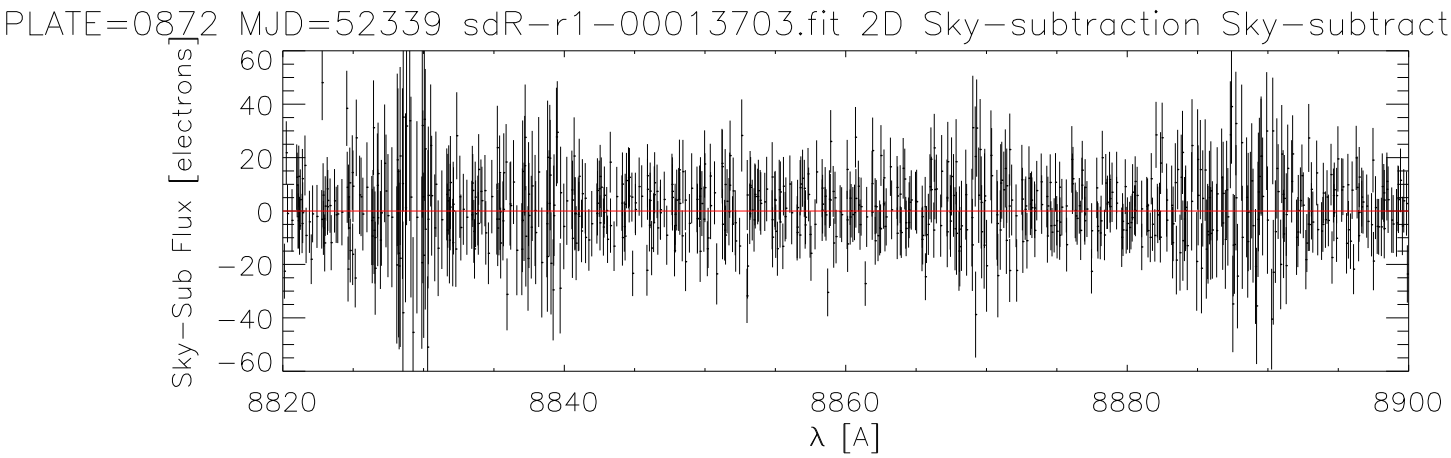

PLATE=0872 MJD=52339 sdR-r1-00013703.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
500
400
300
200
100
0
−100
8820
8840
8860
8880
8900
λ [A]

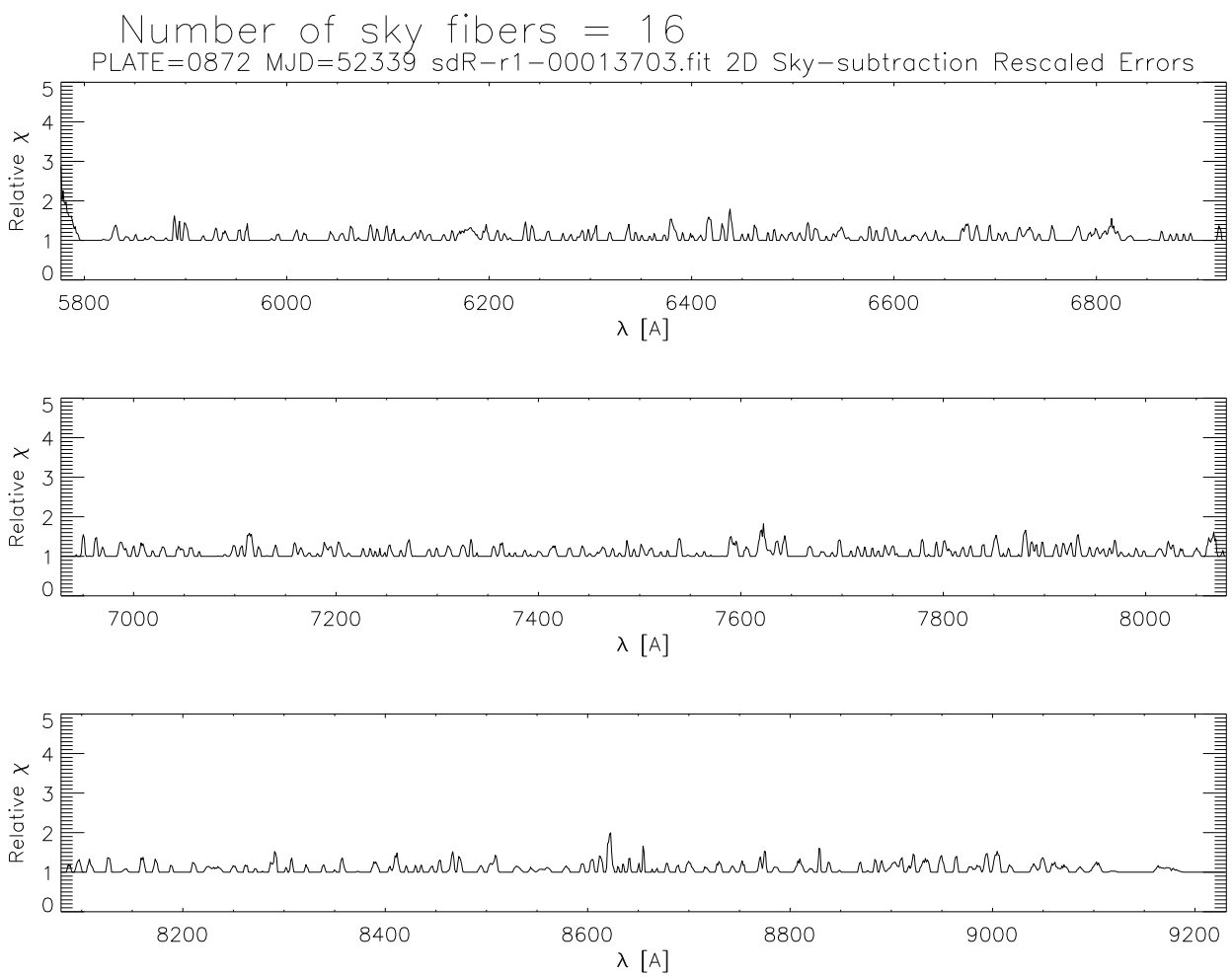

PLATE=0872 MJD=52339 sdR-r1-00013703.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
−20
−40
−60
8820
8840
8860
8880
8900
λ [A]

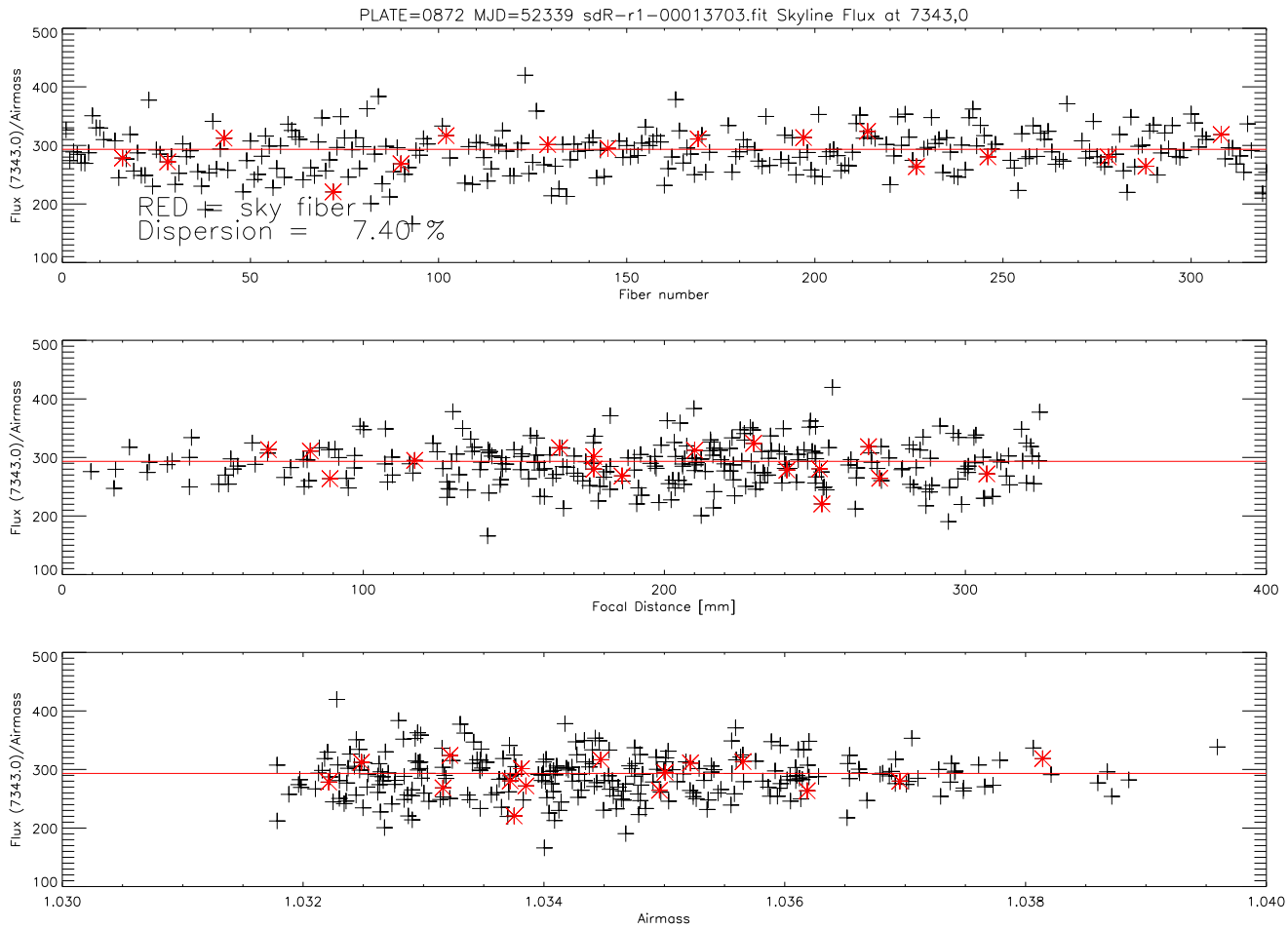

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r1-00013703.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

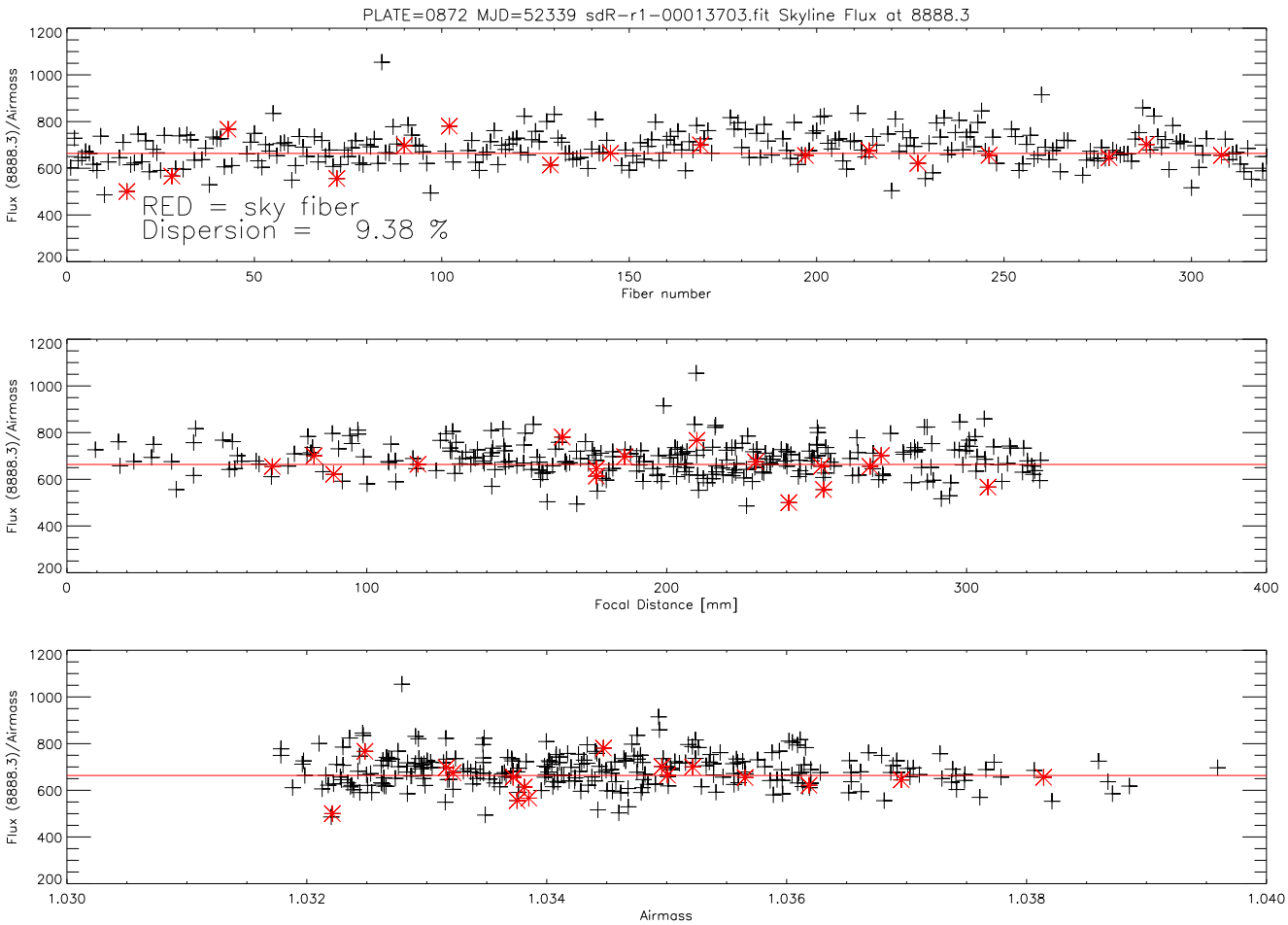

PLATE=0872 MJD=52339 sdR-r1-00013703.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

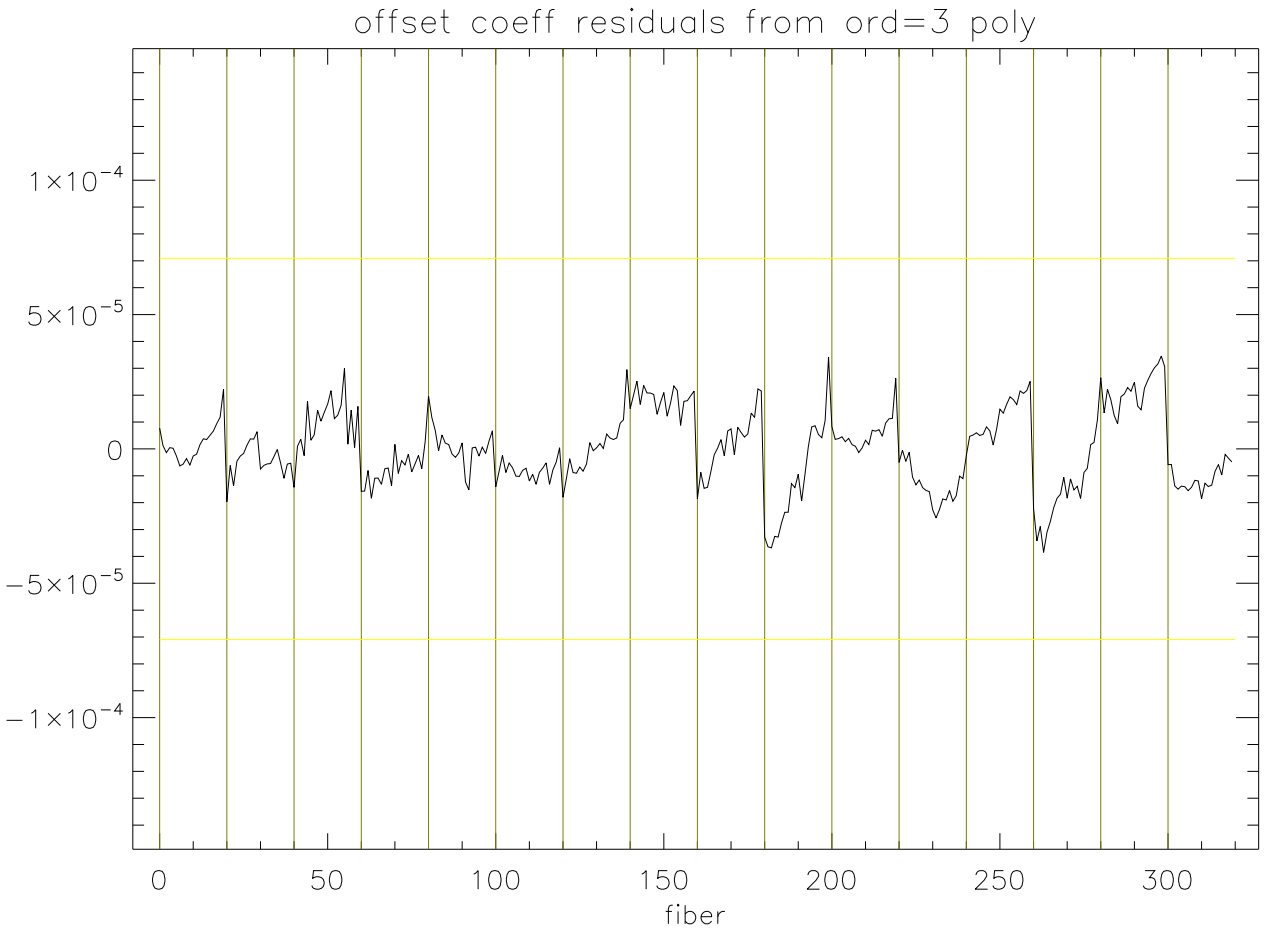

PLATE=0872 MJD=52339 sdR-r1-00013703.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
500
400
300
200
100
0
−100
8820
8840
8860
8880
8900
λ [A]

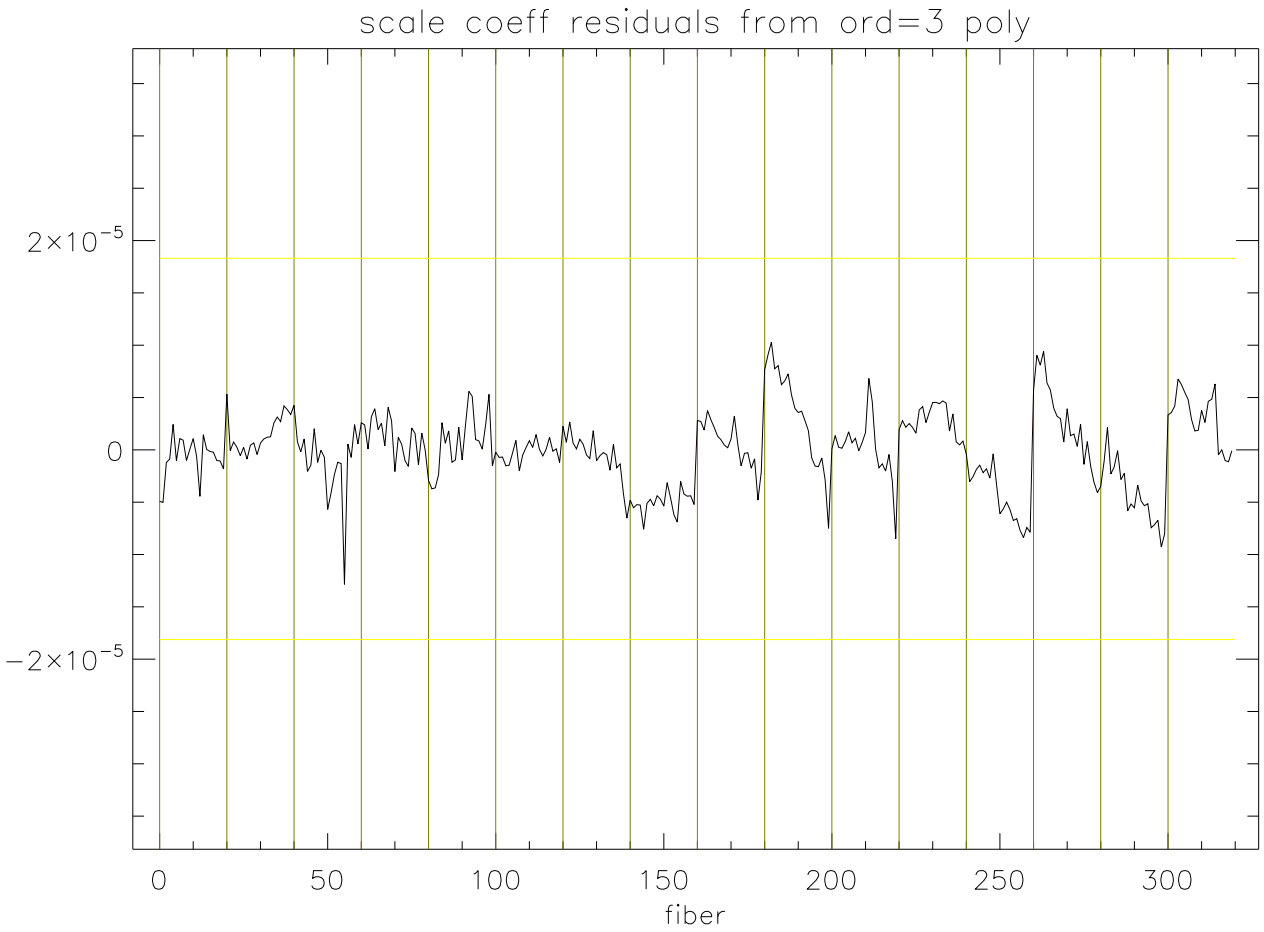

PLATE=0872 MJD=52339 sdR-r1-00013703.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
−20
−40
−60
8820
8840
8860
8880
8900
λ [A]

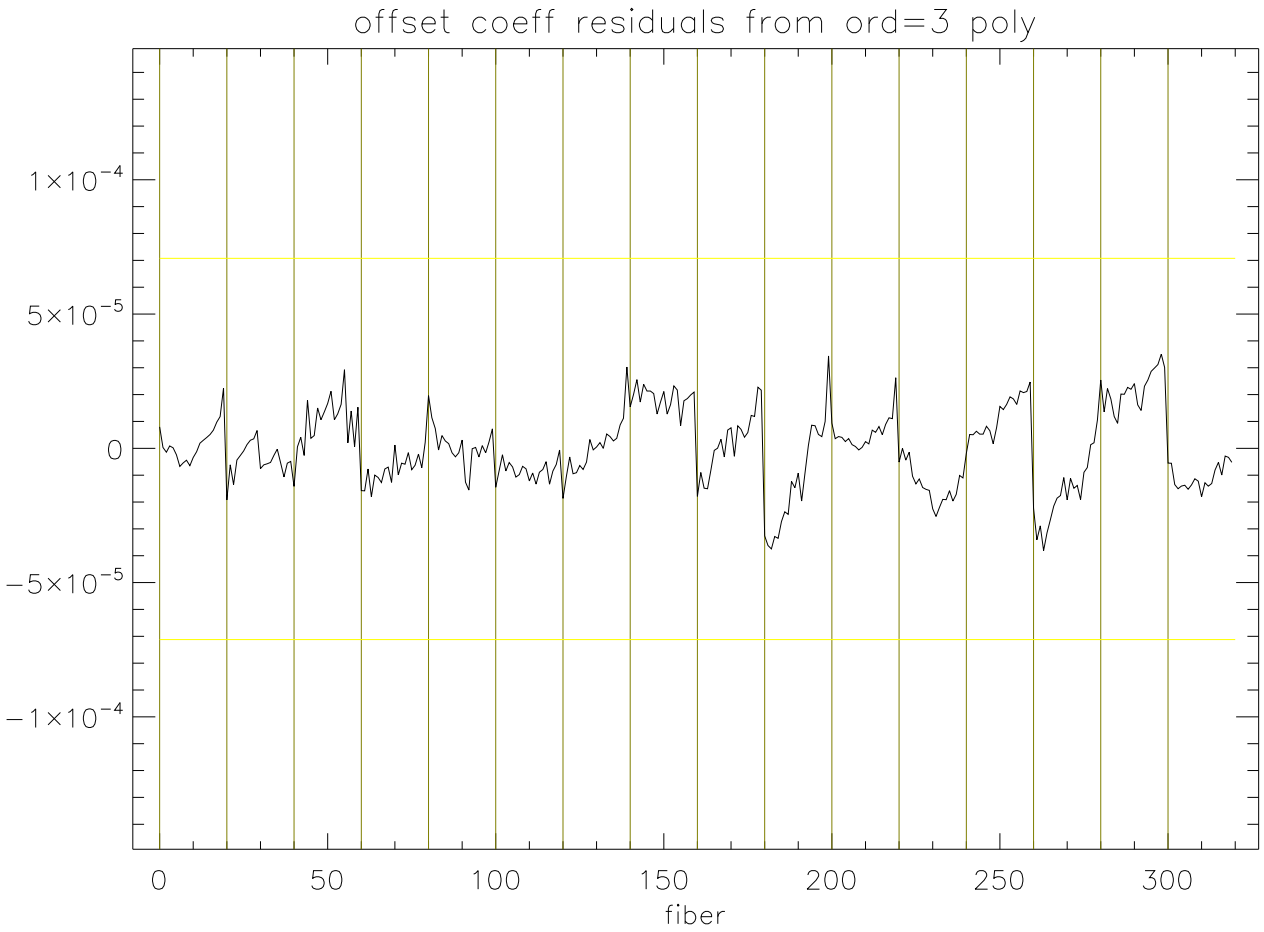

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r1-00013703.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

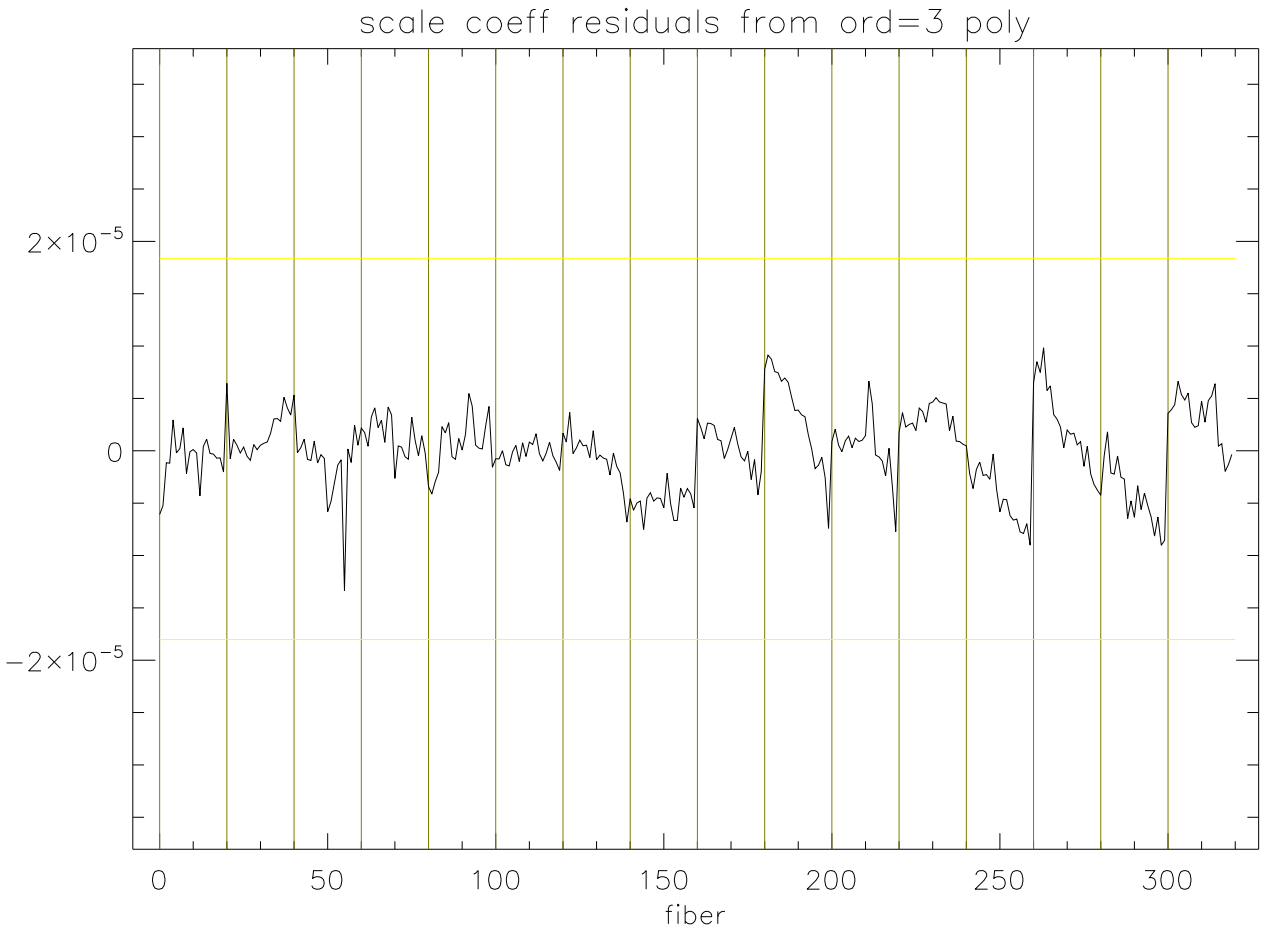

PLATE=0872 MJD=52339 sdR-r1-00013703.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 7.40 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

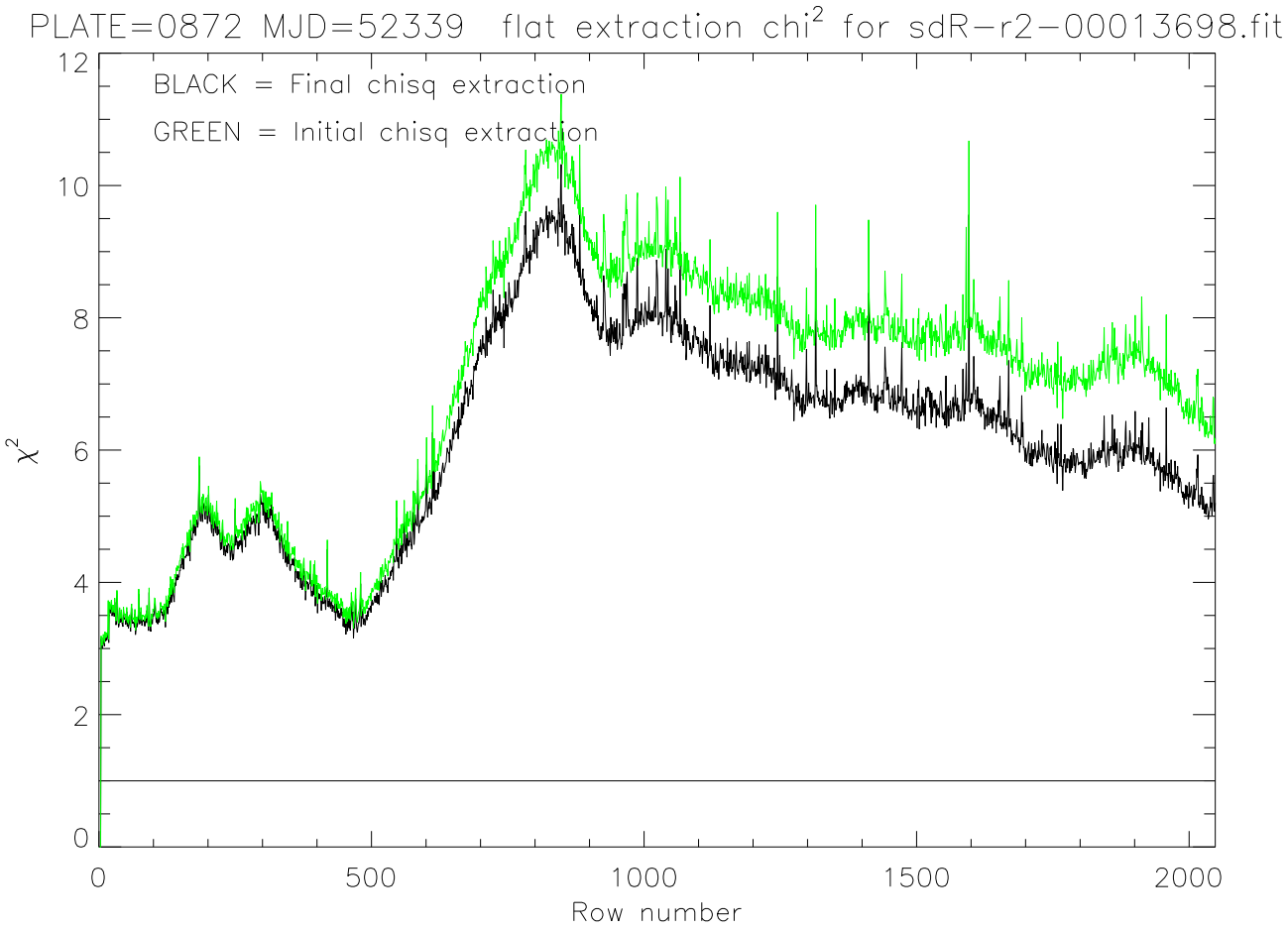

PLATE=0872 MJD=52339 sdR-r1-00013703.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 9.38 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

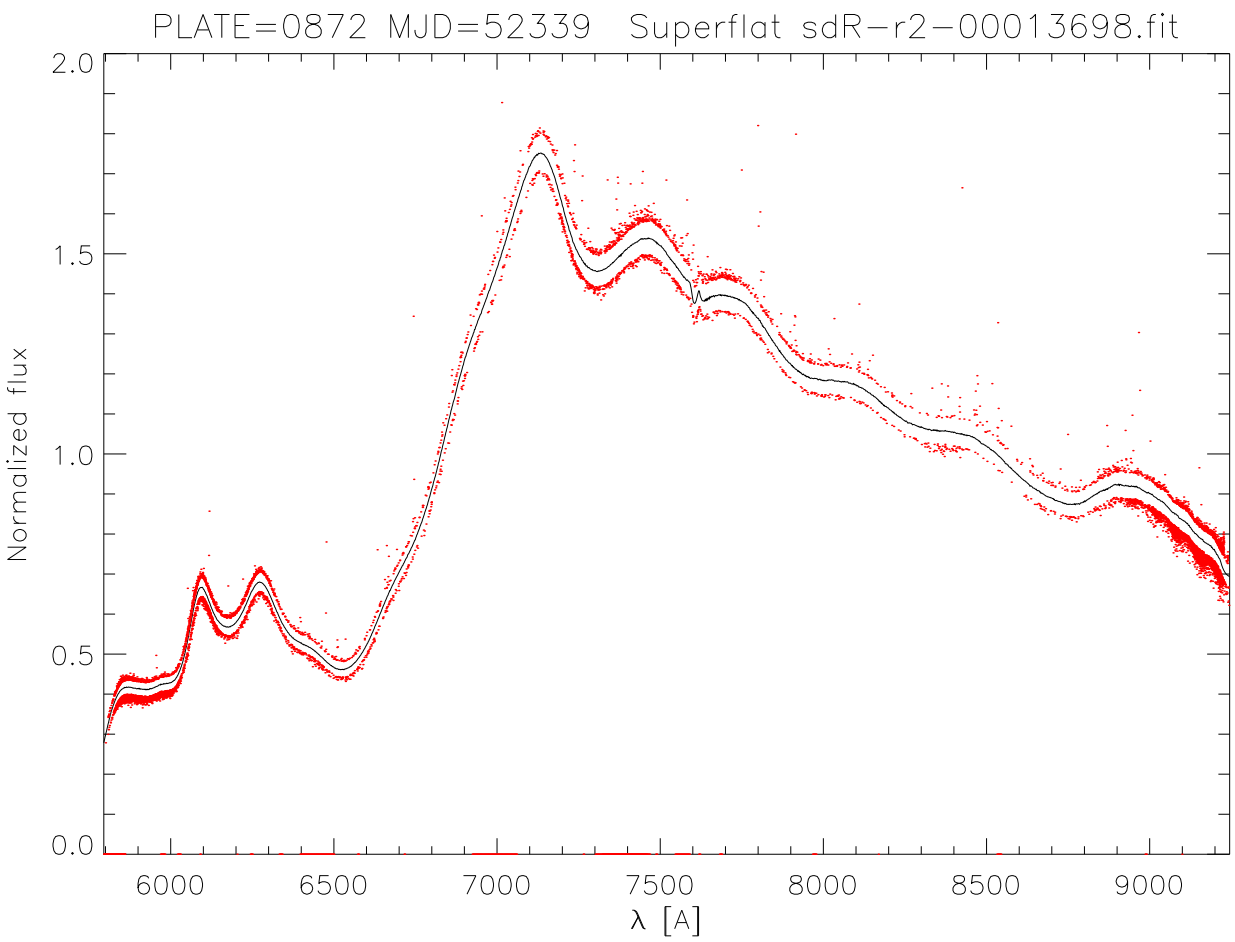

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

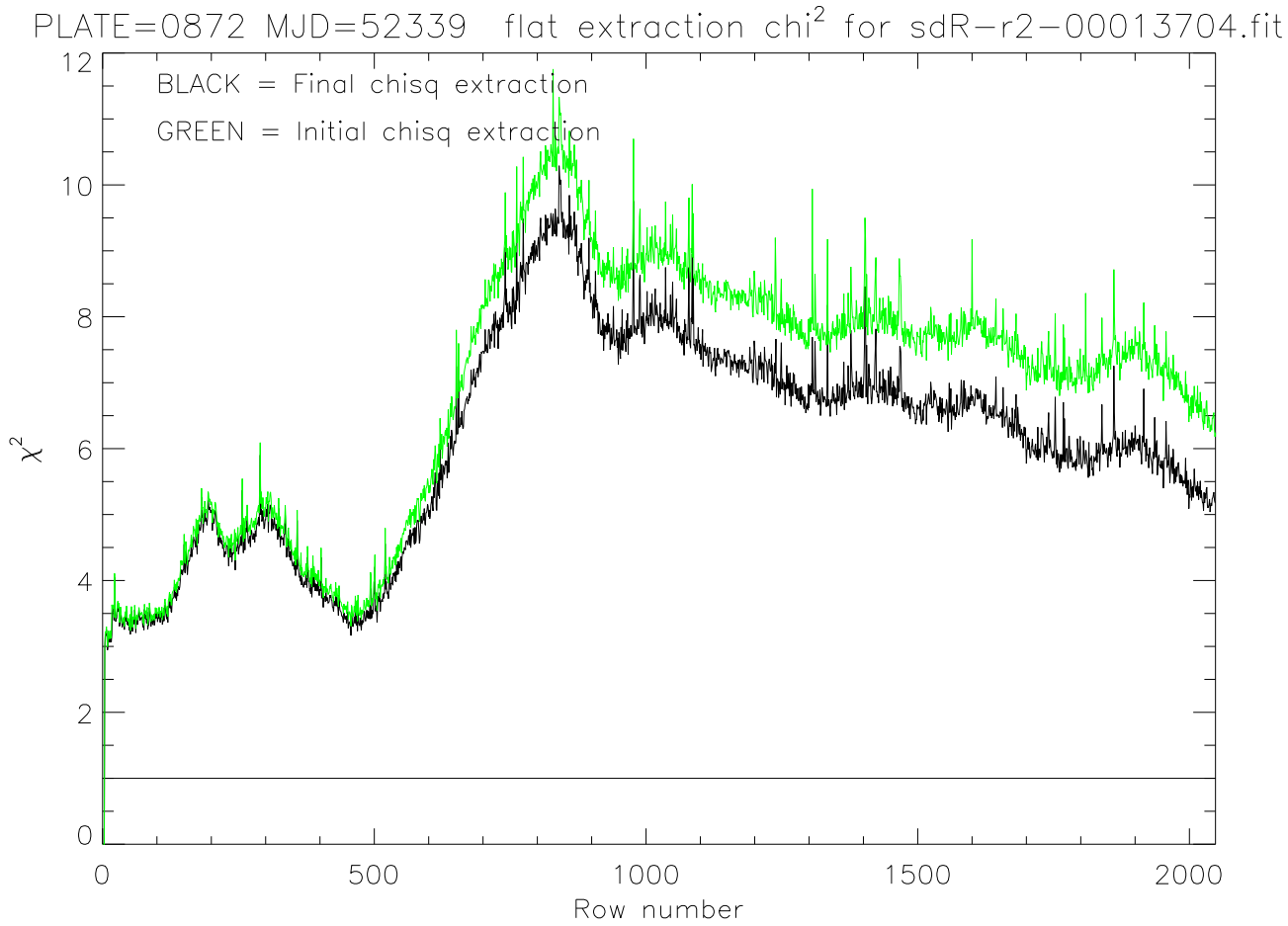

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
0
50
100
150
200
250
300
fiber

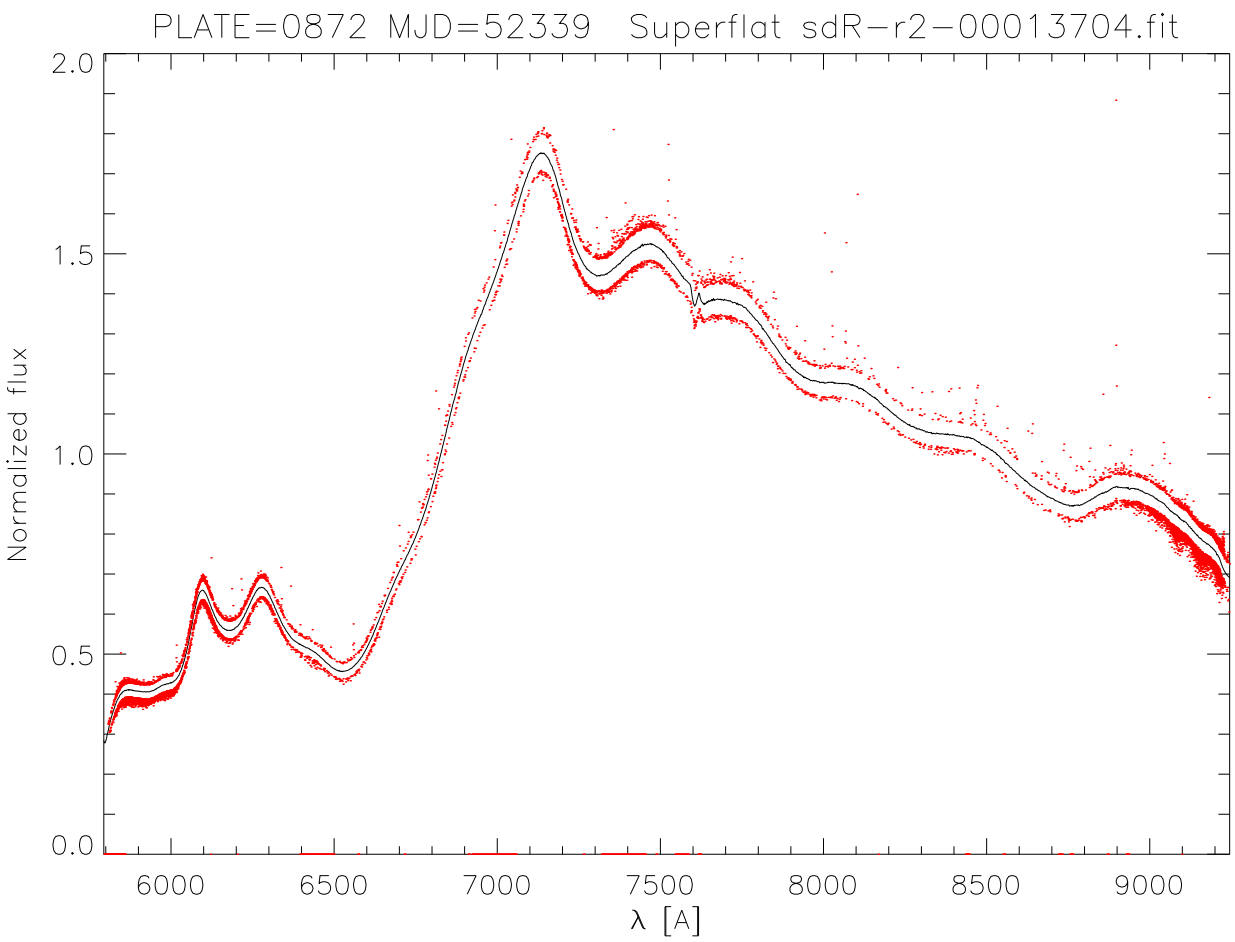

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

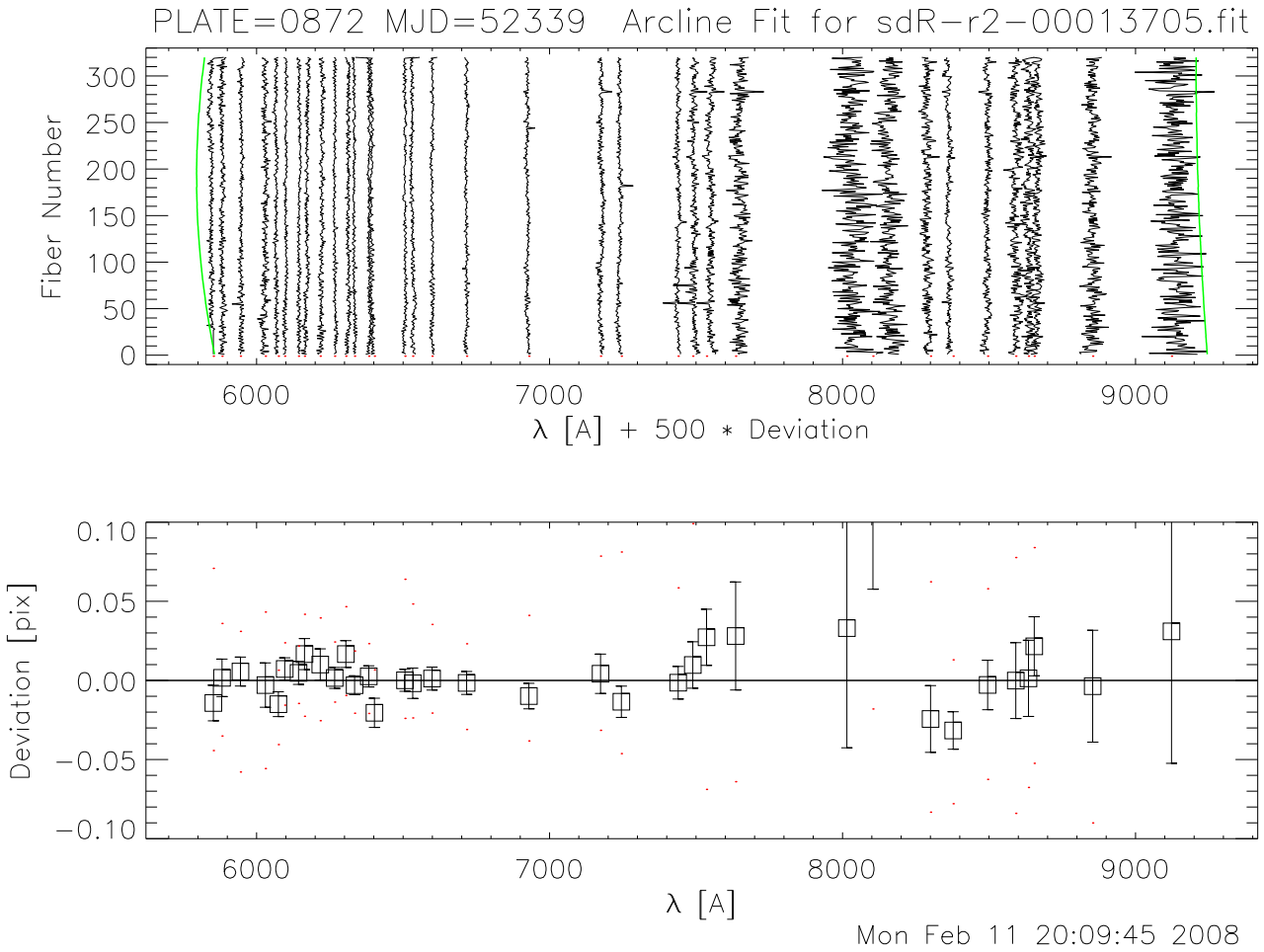

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

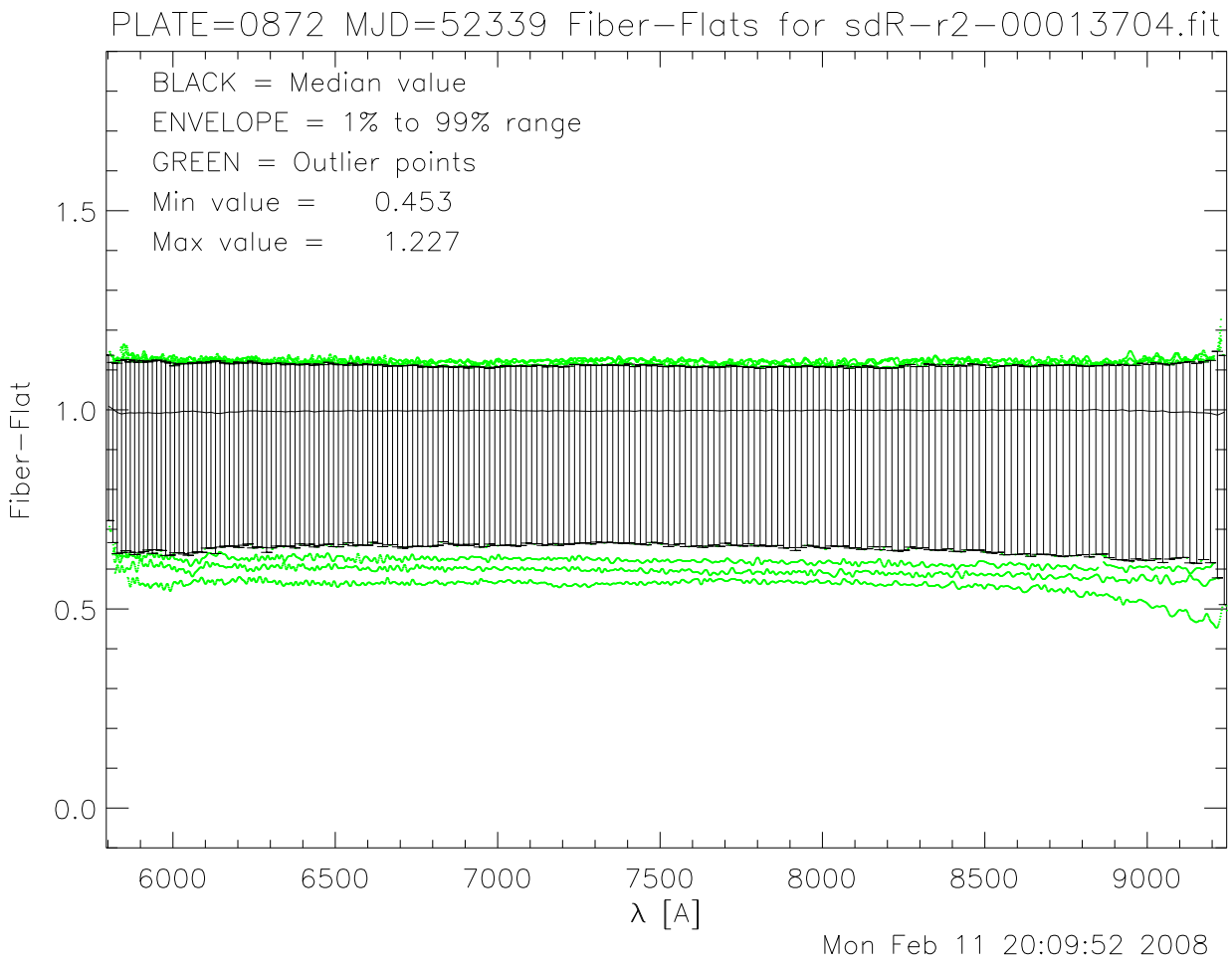

PLATE=0872 MJD=52339 flat extraction chi^2 for sdR−r2−00013698.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

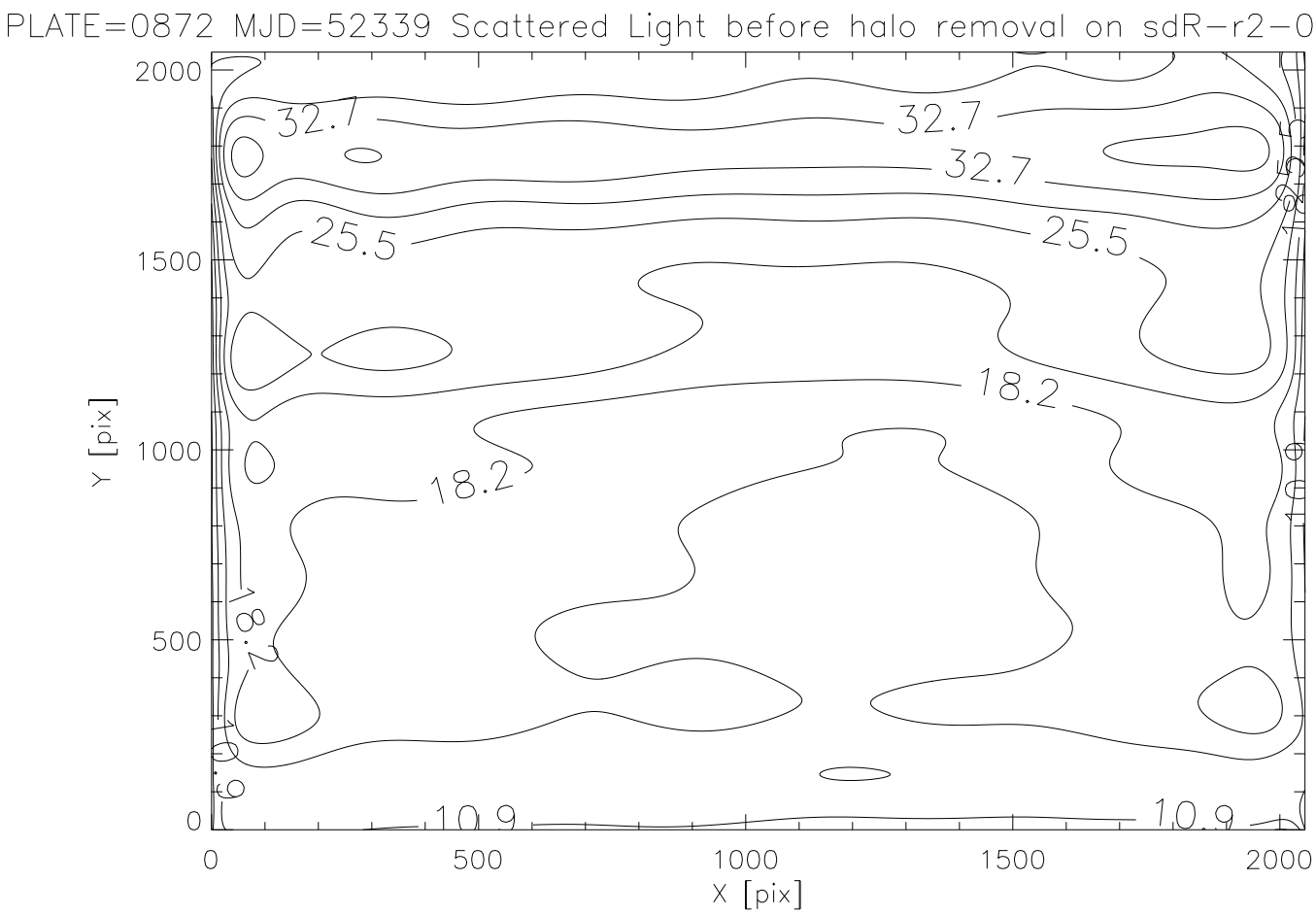

PLATE=0872 MJD=52339 Superflat sdR-r2-00013698.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

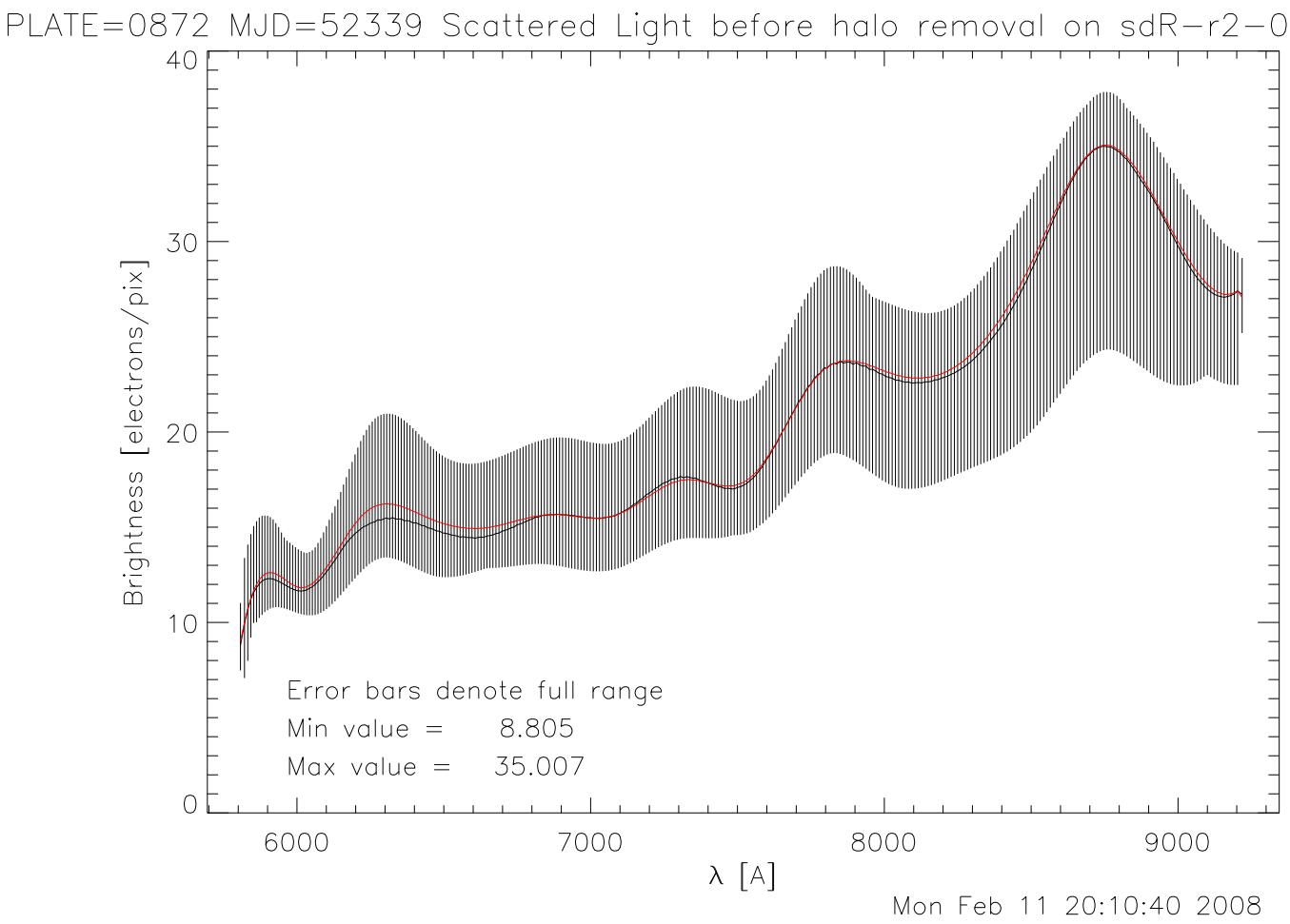

PLATE=0872 MJD=52339 flat extraction chi^2 for sdR−r2−00013704.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

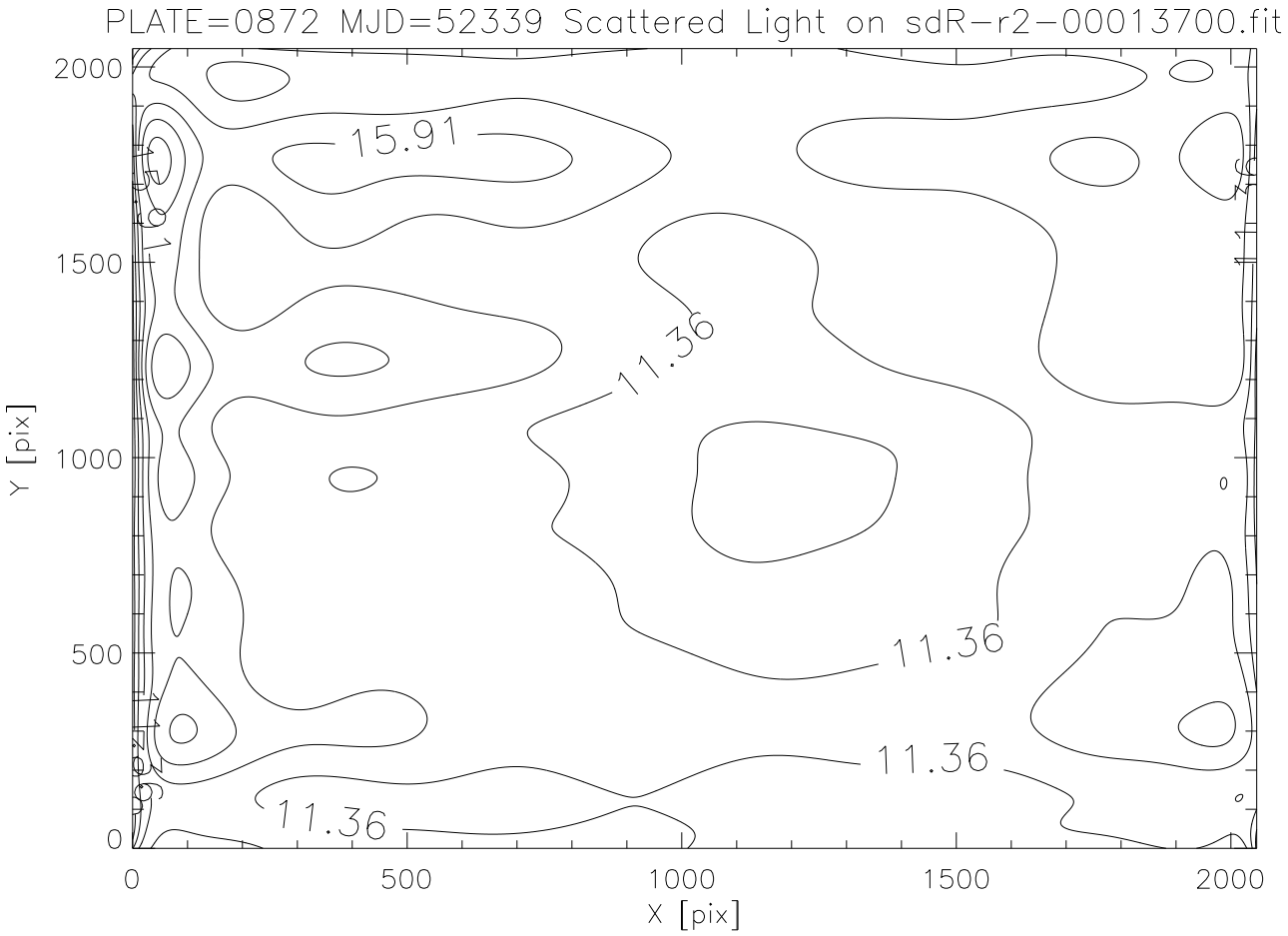

PLATE=0872 MJD=52339 Superflat sdR-r2-00013704.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

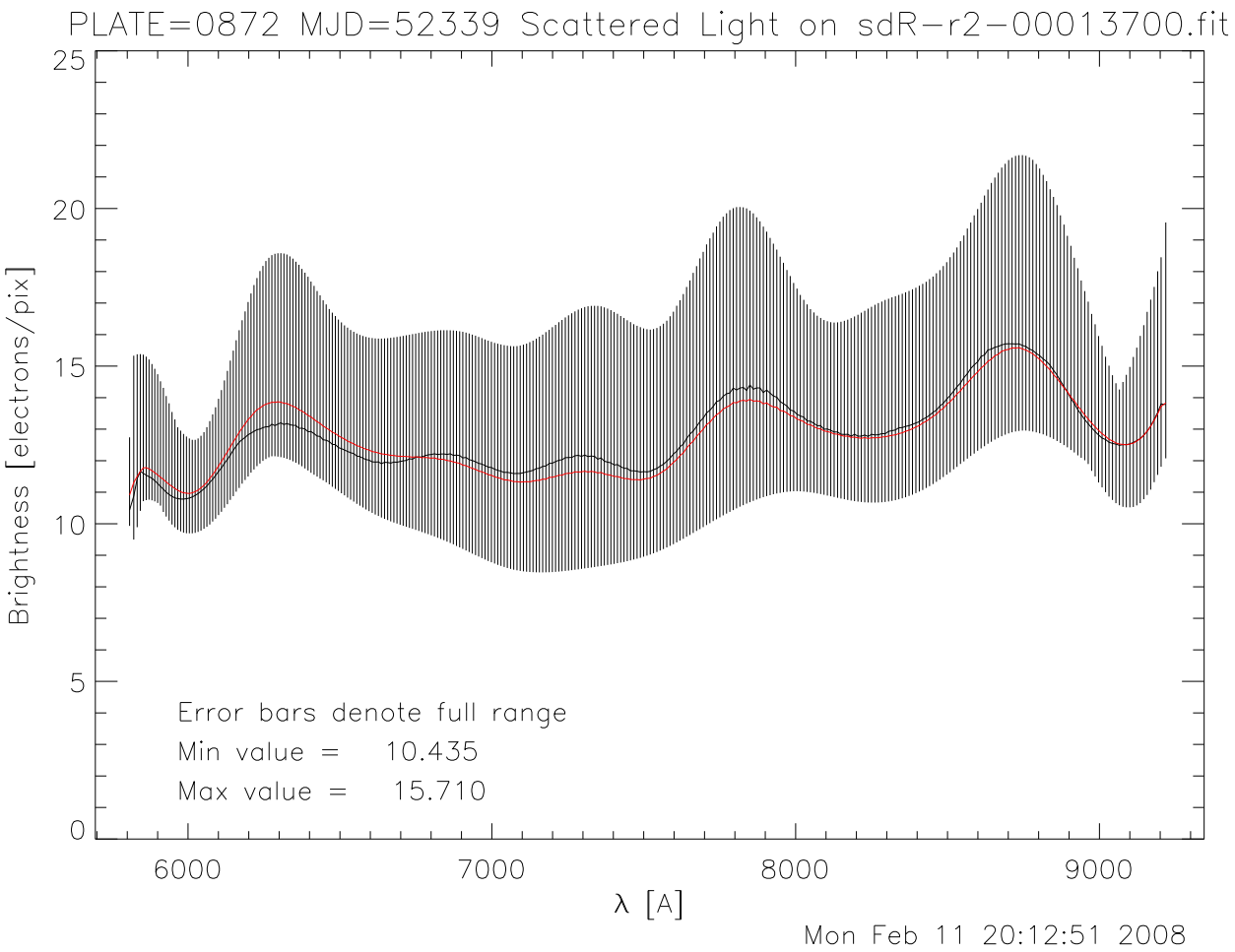

PLATE=0872 MJD=52339 Arcline Fit for sdR-r2-00013705.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 11 20:09:45 2008

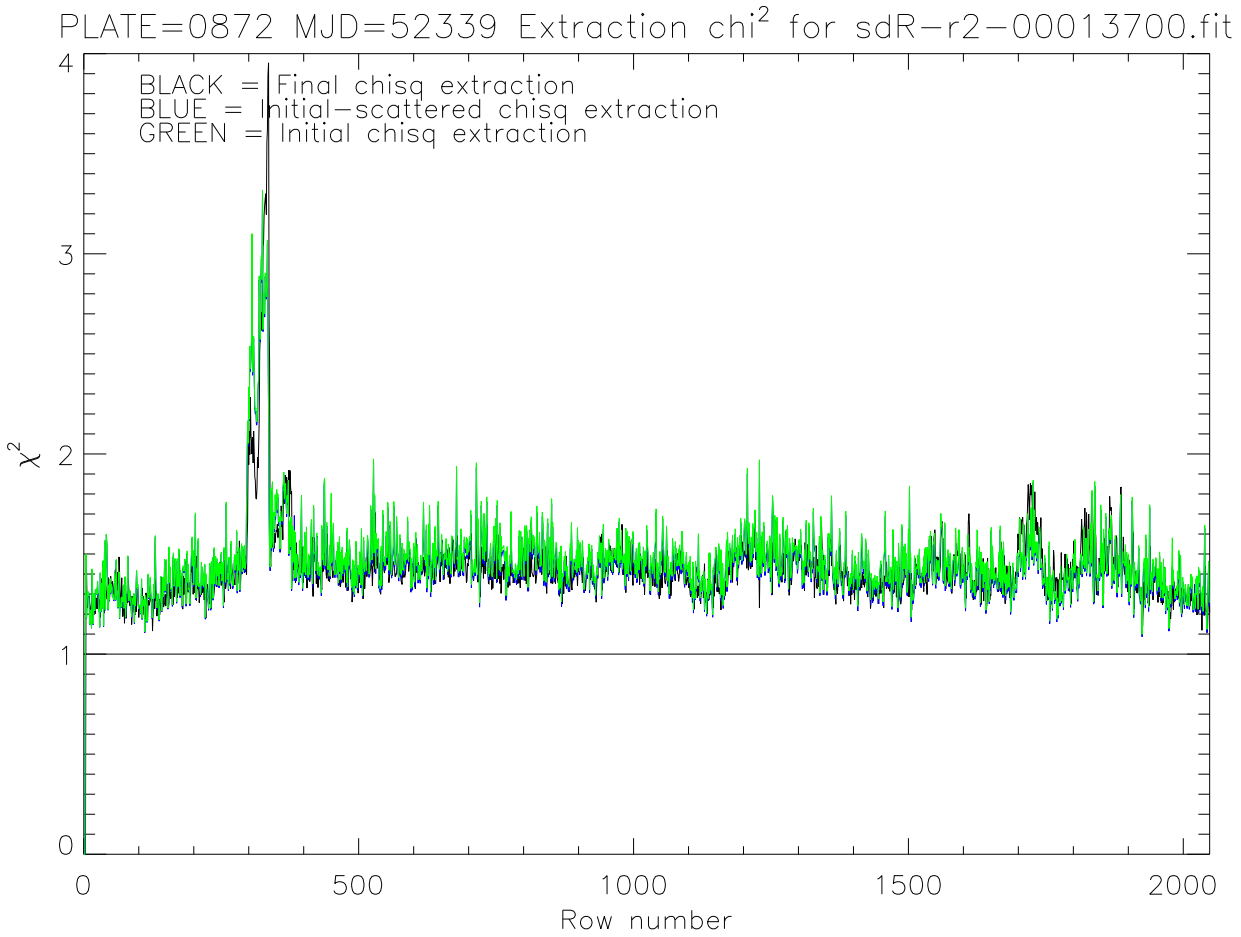

PLATE=0872 MJD=52339 Fiber-Flats for sdR-r2-00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.453
Max value = 1.227
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 20:09:52 2008

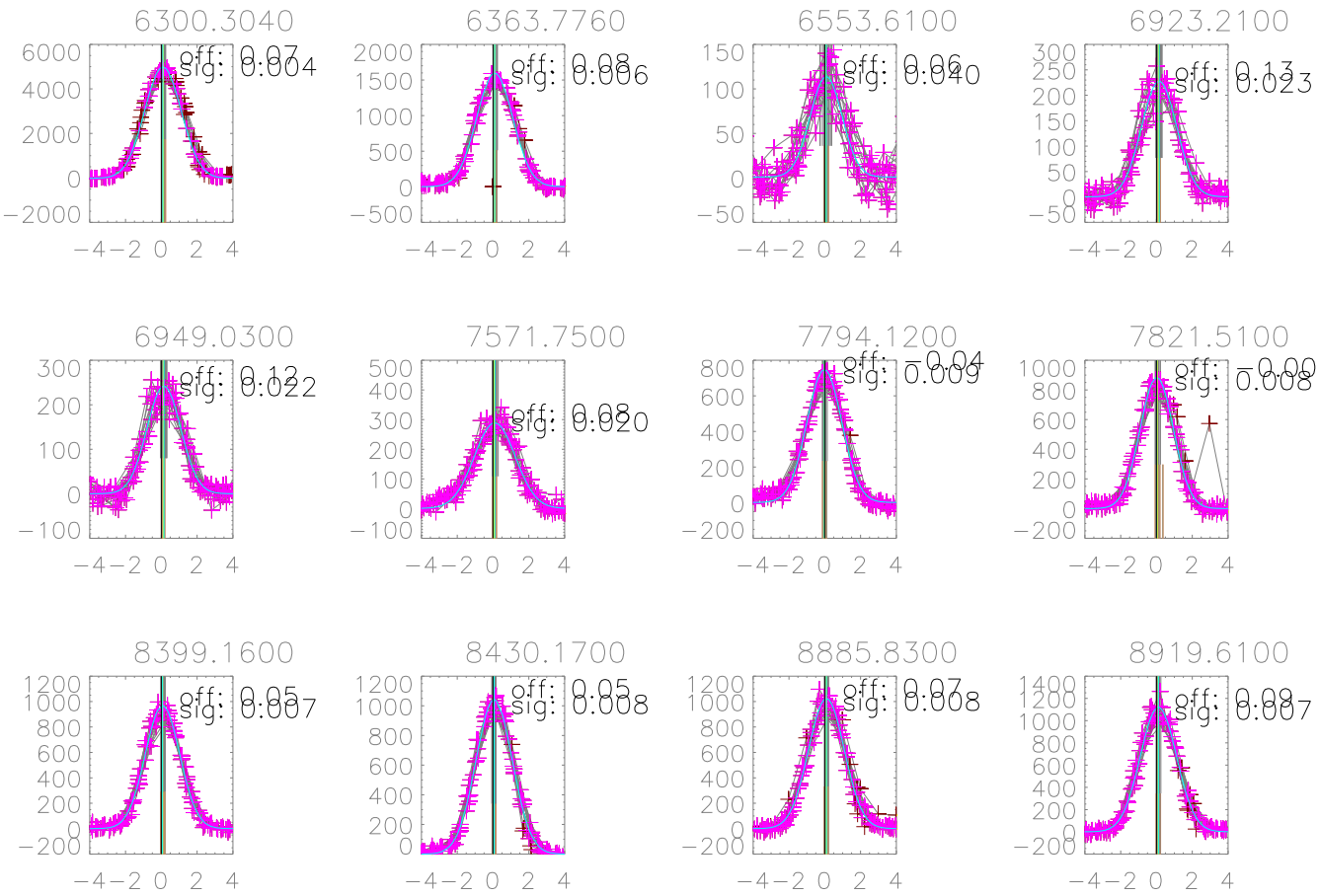

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r2-00013700.fi
32.7
32.7
32.7
25.5
25.5
18.2
18.2
18.2
10.9
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

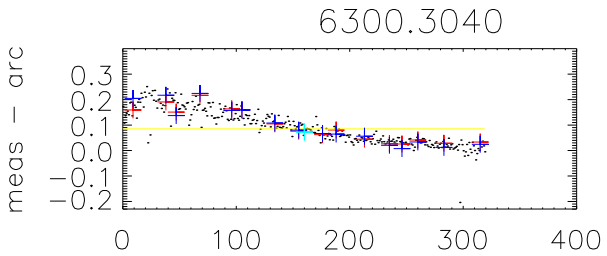

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r2-00013700.fi
Brightness [electrons/pix]
40
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 8.805
Max value = 35.007
Mon Feb 11 20:10:40 2008

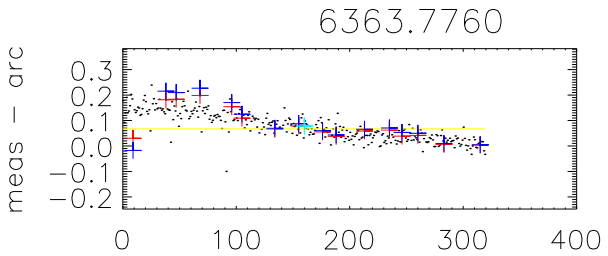

PLATE=0872 MJD=52339 Scattered Light on sdR-r2-00013700.fit
15.91
11.36
11.36
11.36
11.36
Y [pix]
X [pix]
0
500
1000
1500
2000

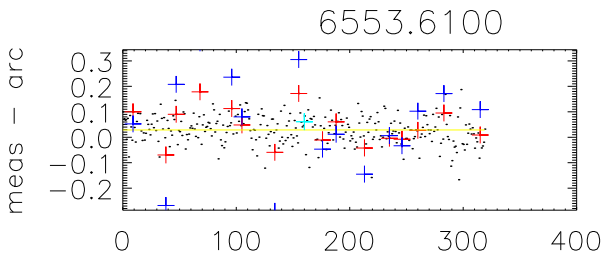

PLATE=0872 MJD=52339 Scattered Light on sdR-r2-00013700.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 10.435
Max value = 15.710
Mon Feb 11 20:12:51 2008

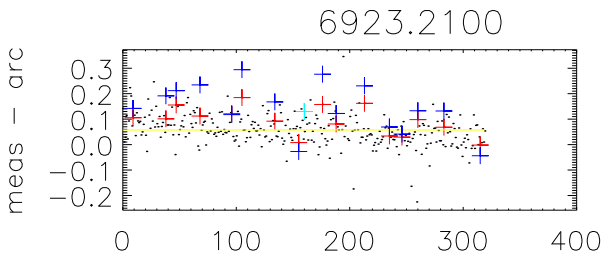

PLATE=0872 MJD=52339 Extraction chi^2 for sdR-r2-00013700.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

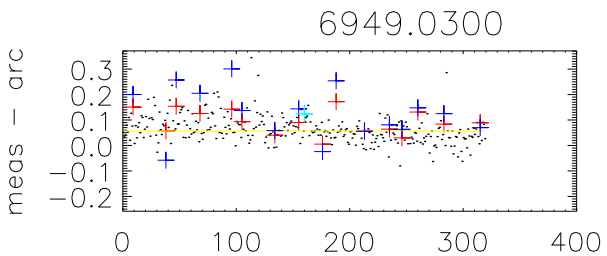

6300.3040
off: 0.07
sig: 0.004
6363.7760
off: 0.08
sig: 0.006
6553.6100
off: 0.06
sig: 0.040
6923.2100
off: 0.13
sig: 0.023
6949.0300
off: 0.12
sig: 0.022
7571.7500
off: 0.08
sig: 0.020
7794.1200
off: −0.04
sig: 0.009
7821.5100
off: −0.00
sig: 0.008
8399.1600
off: 0.05
sig: 0.007
8430.1700
off: 0.05
sig: 0.008
8885.8300
off: 0.07
sig: 0.008
8919.6100
off: 0.08
sig: 0.007

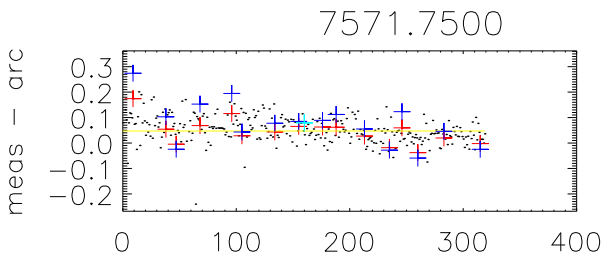

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

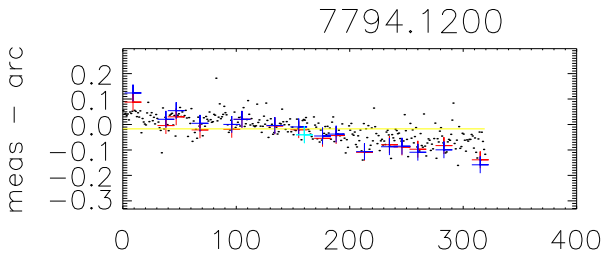

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

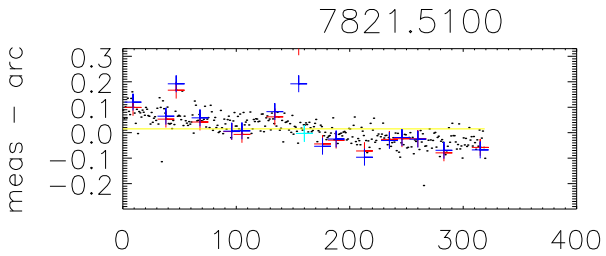

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

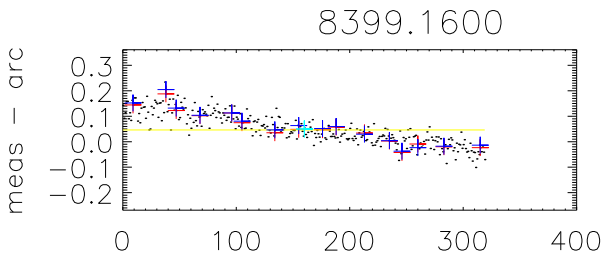

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

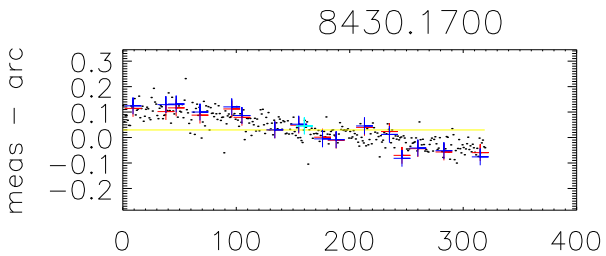

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

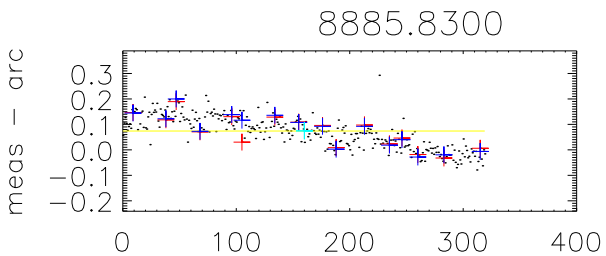

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

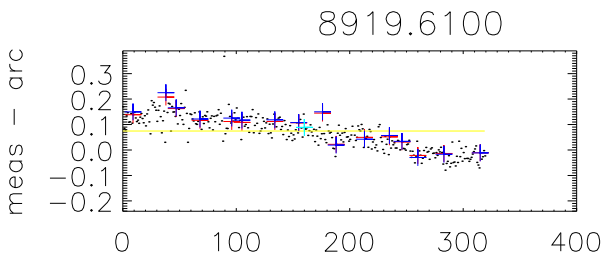

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

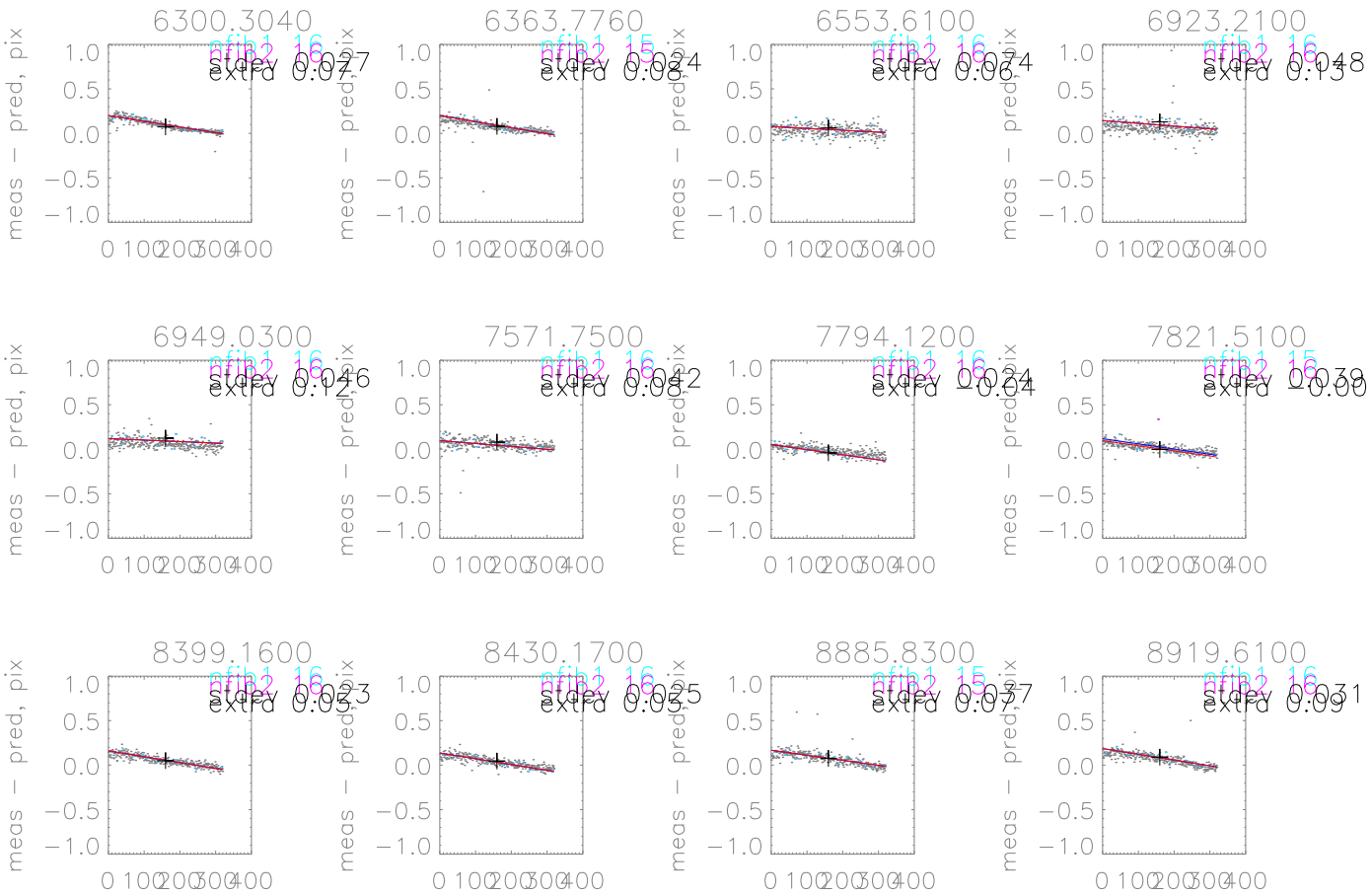

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

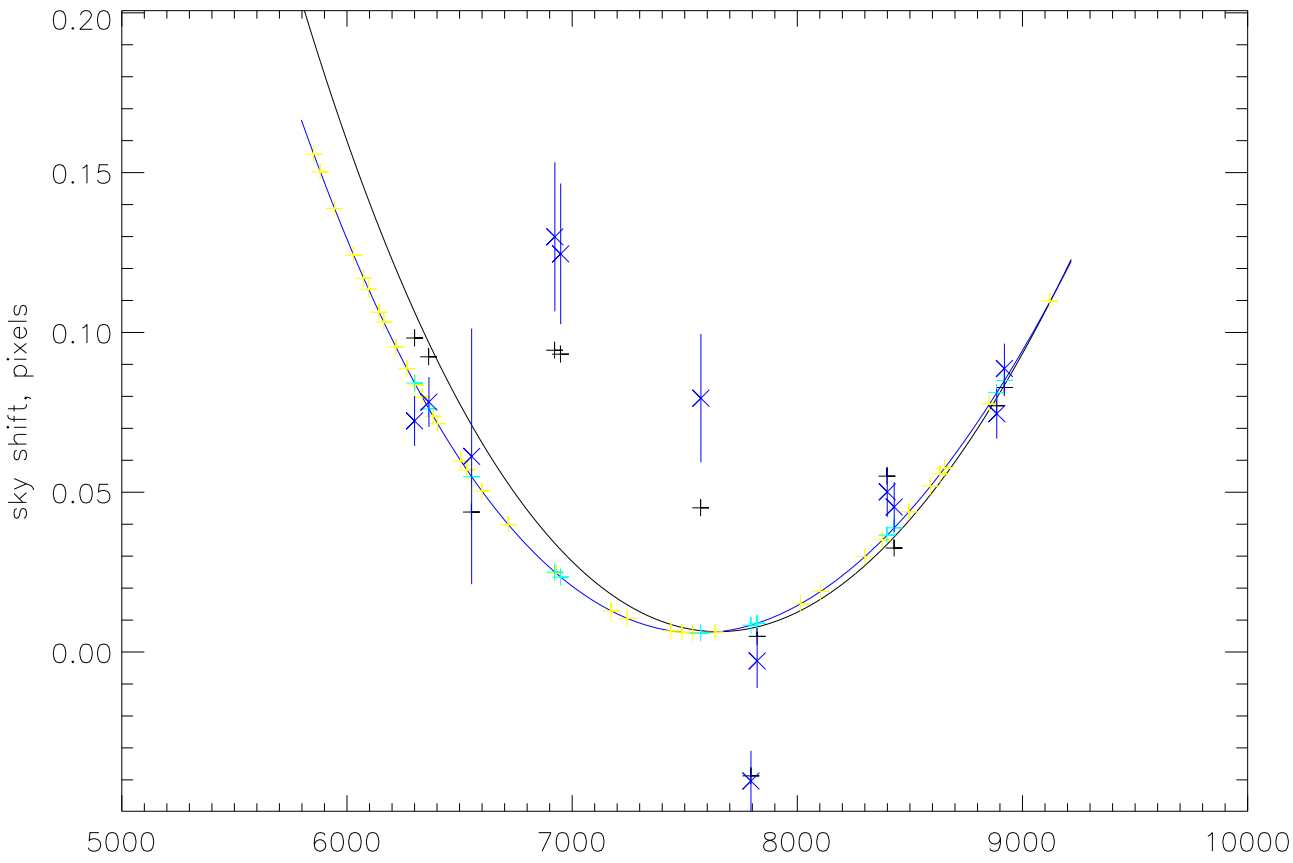

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

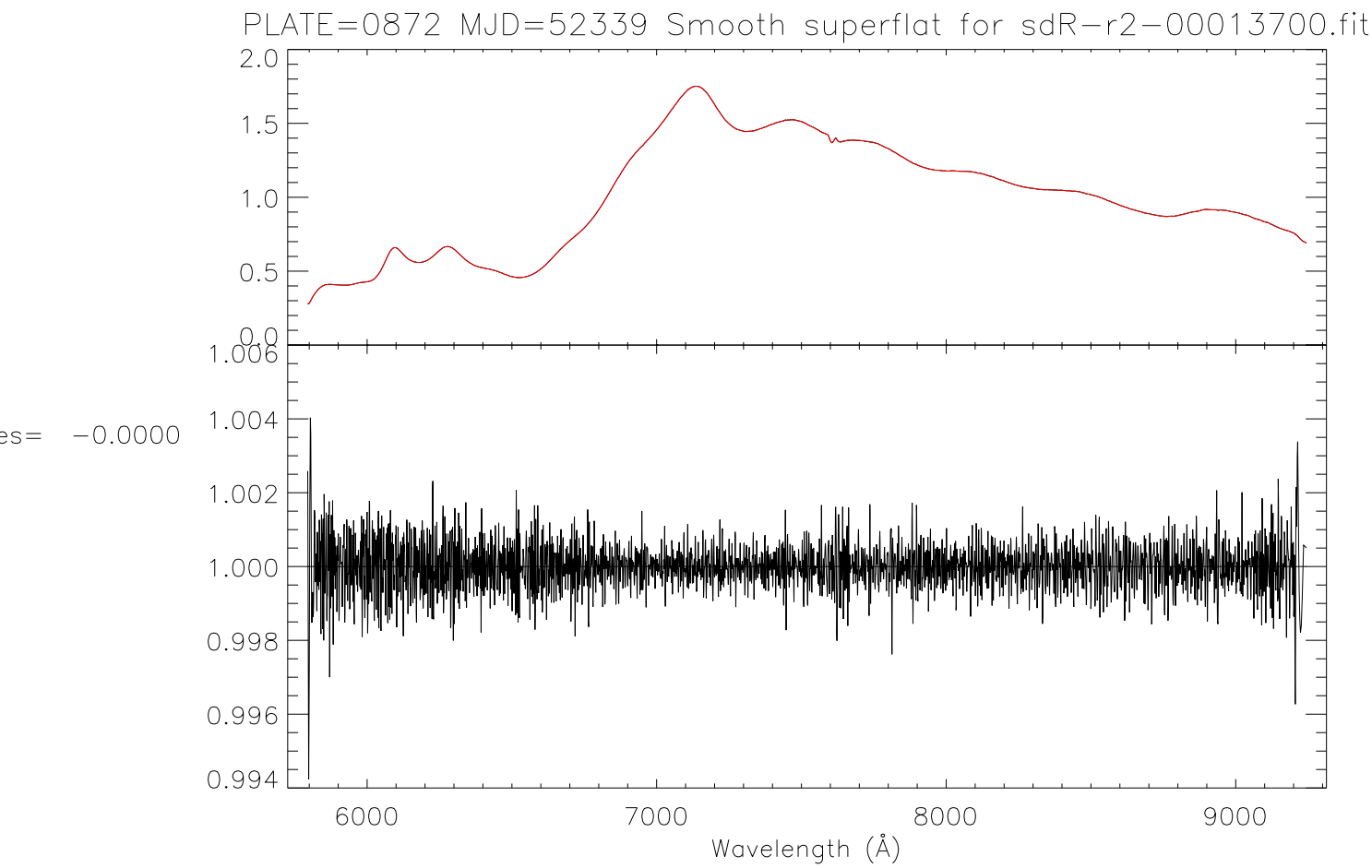

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

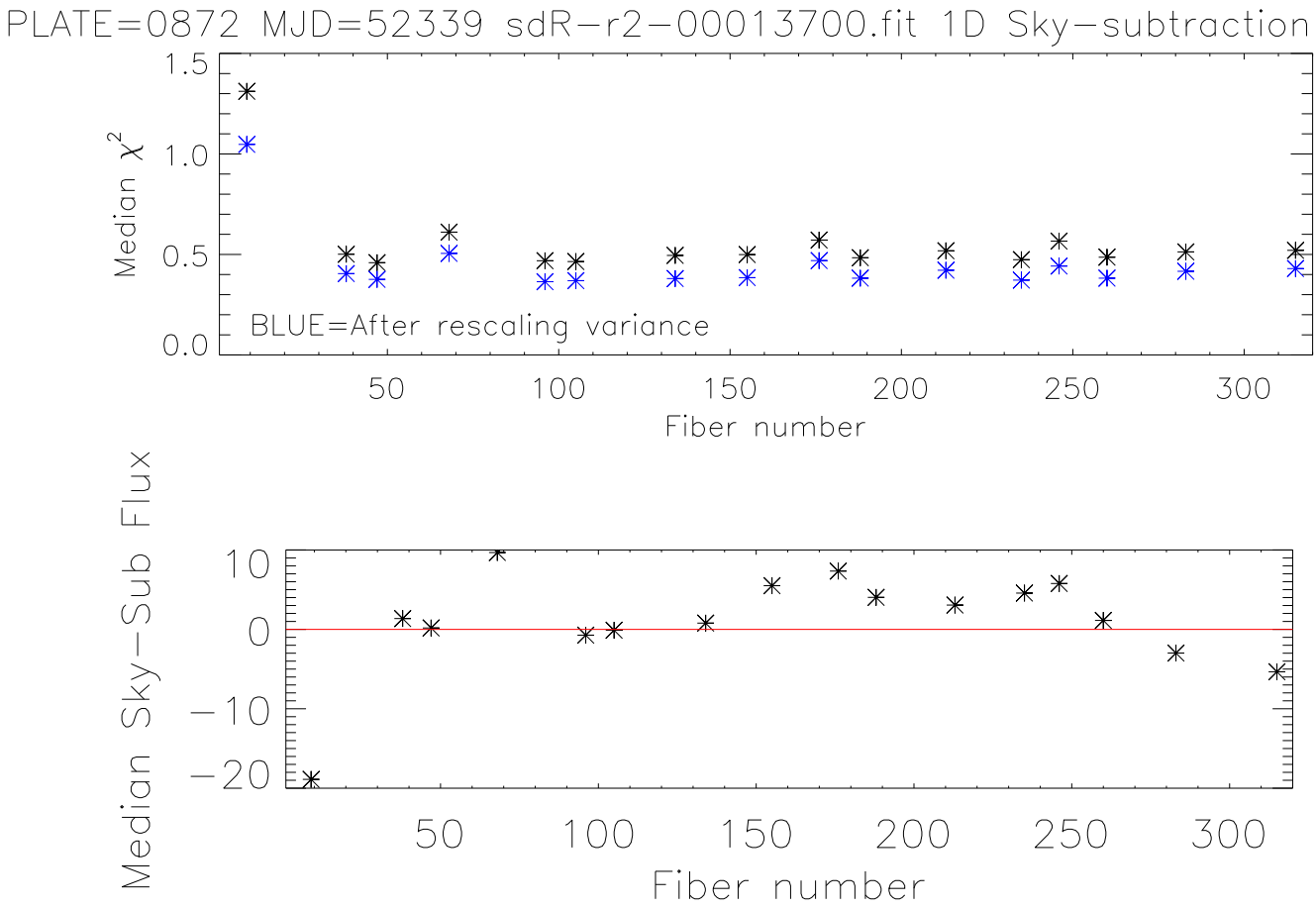

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

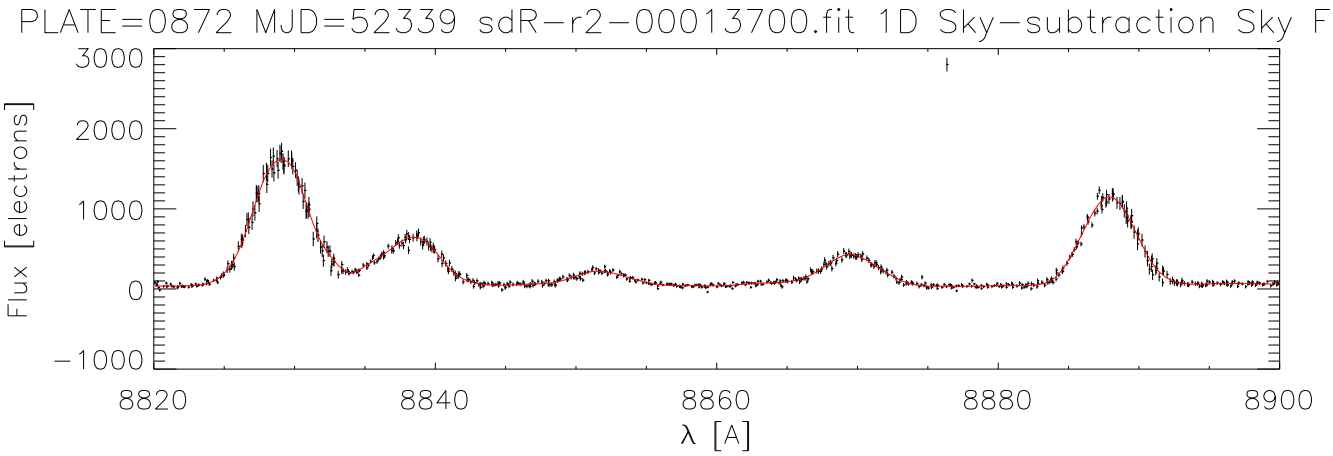

6300.3040
stdev 0.027
extra 0.07
6363.7760
stdev 0.024
extra 0.08
6553.6100
stdev 0.074
extra 0.06
6923.2100
stdev 0.048
extra 0.13
6949.0300
stdev 0.046
extra 0.12
7571.7500
stdev 0.042
extra 0.08
7794.1200
stdev 0.024
extra −0.04
7821.5100
stdev 0.039
extra −0.00
8399.1600
stdev 0.023
extra 0.03
8430.1700
stdev 0.025
extra 0.03
8885.8300
stdev 0.037
extra 0.07
8919.6100
stdev 0.031
extra 0.09
meas − pred, pix

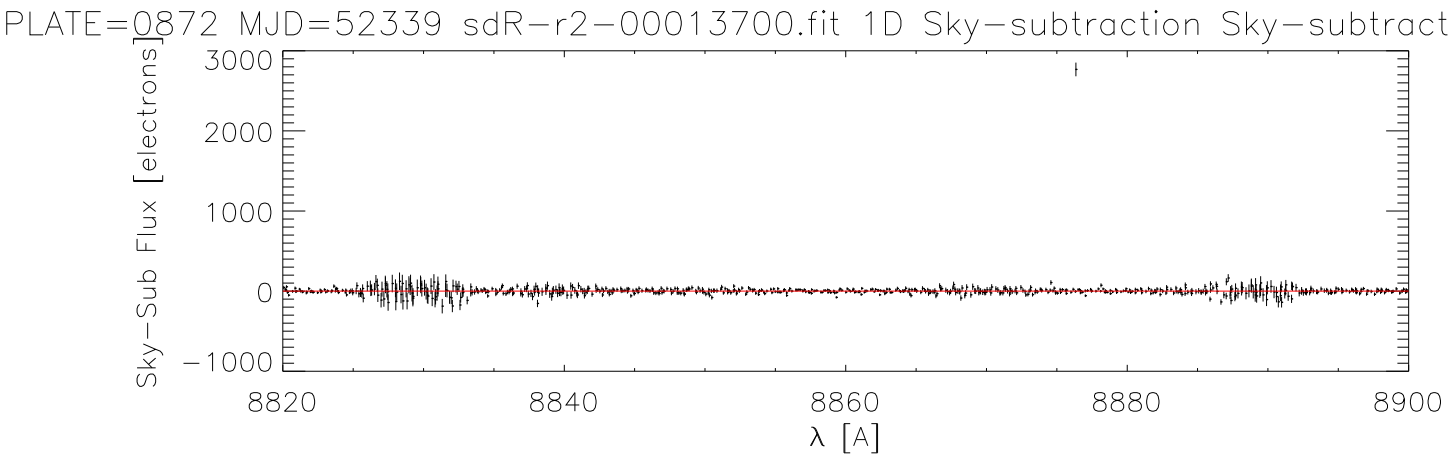

0.20
0.15
0.10
0.05
0.00
sky shift, pixels
5000
6000
7000
8000
9000
10000

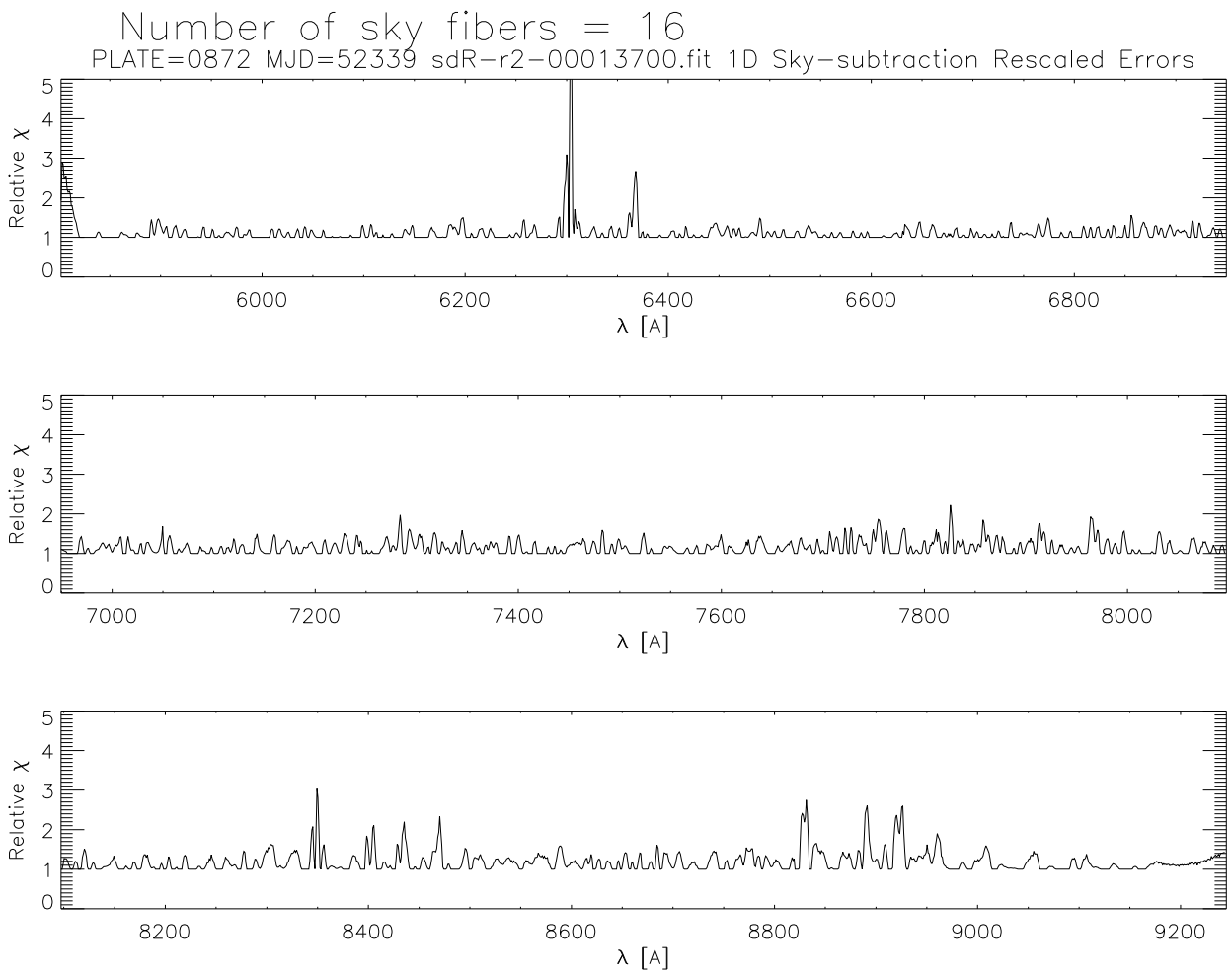

PLATE=0872 MJD=52339 Smooth superflat for sdR-r2-00013700.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

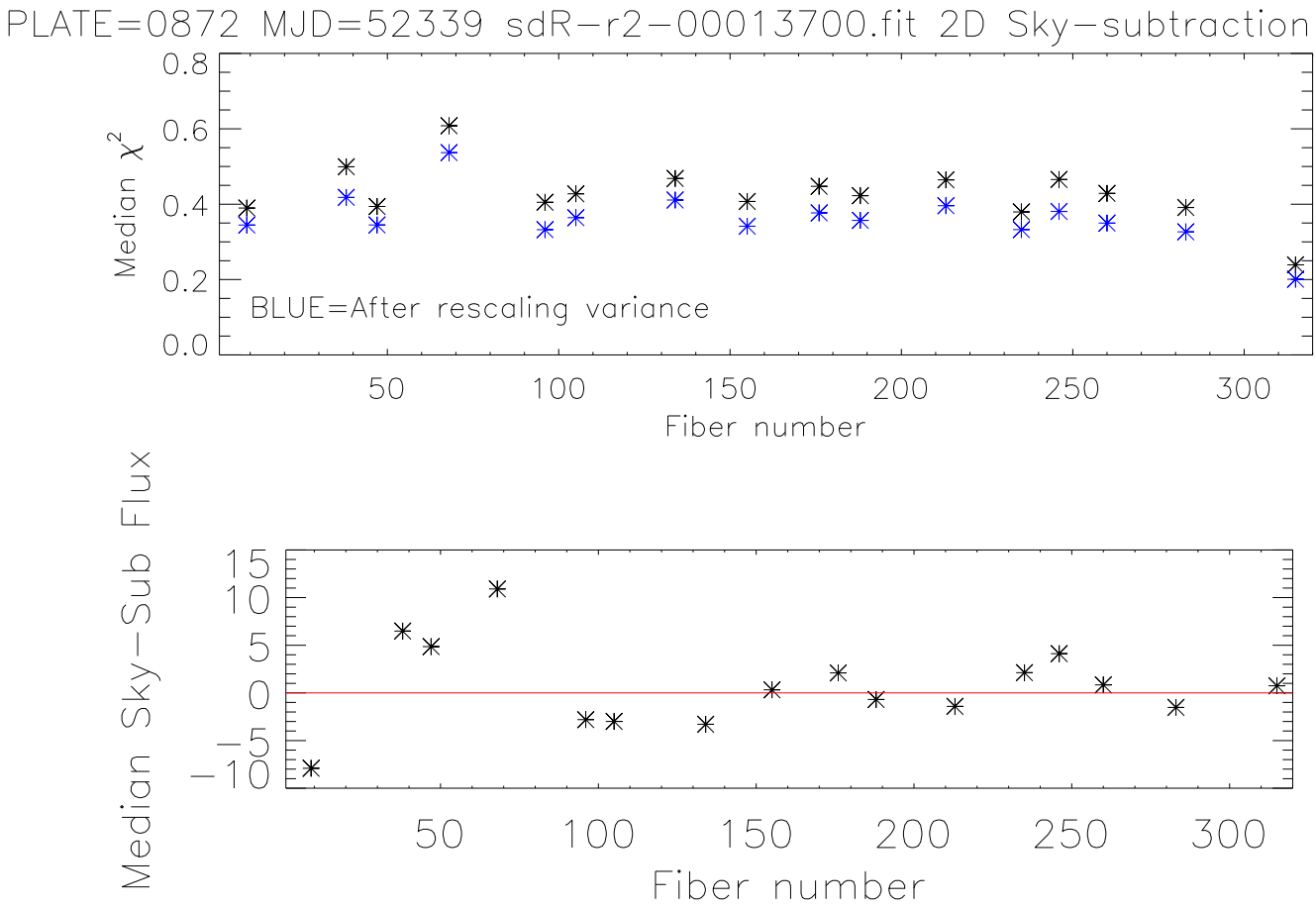
es= −0.0000

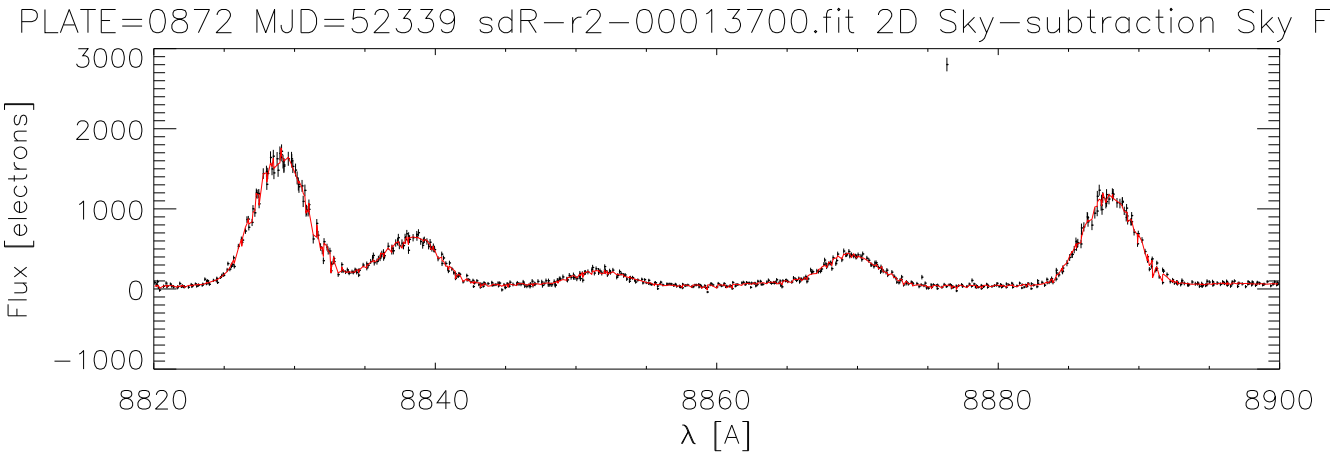

PLATE=0872 MJD=52339 sdR-r2-00013700.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
0
-10
-20
50
100
150
200
250
300
Fiber number

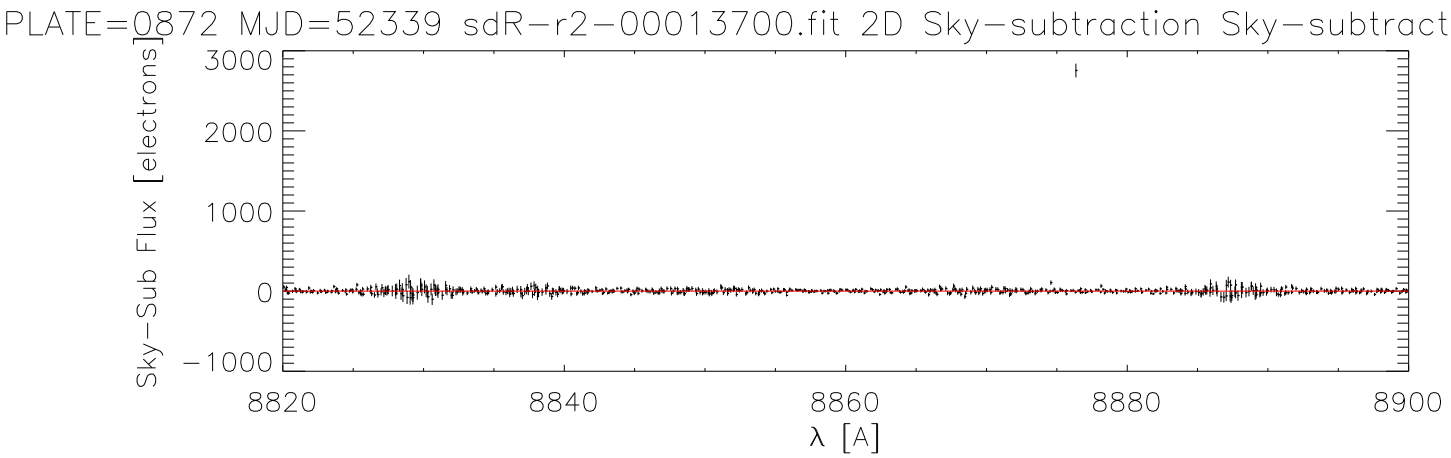

PLATE=0872 MJD=52339 sdR-r2-00013700.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

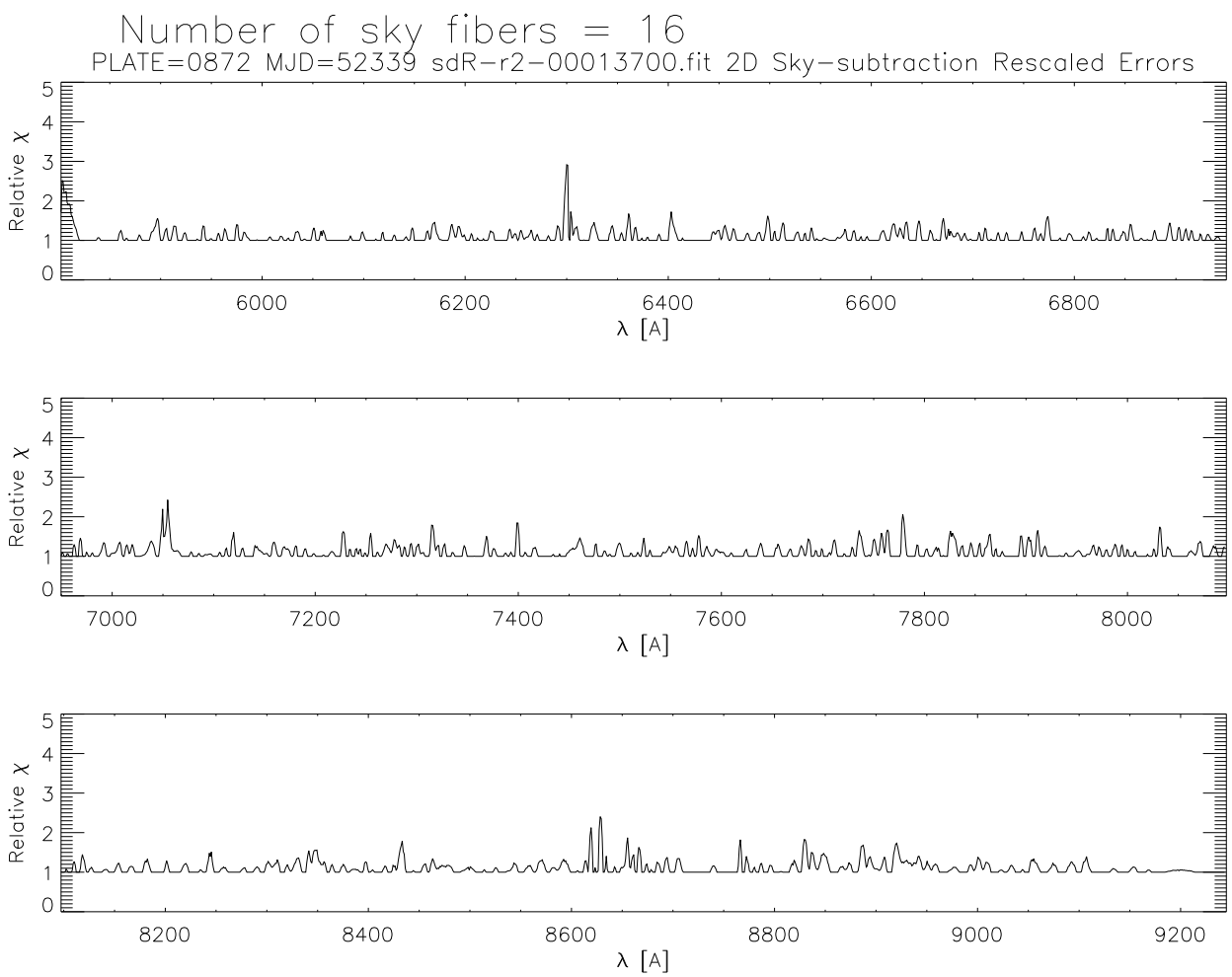

PLATE=0872 MJD=52339 sdR-r2-00013700.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

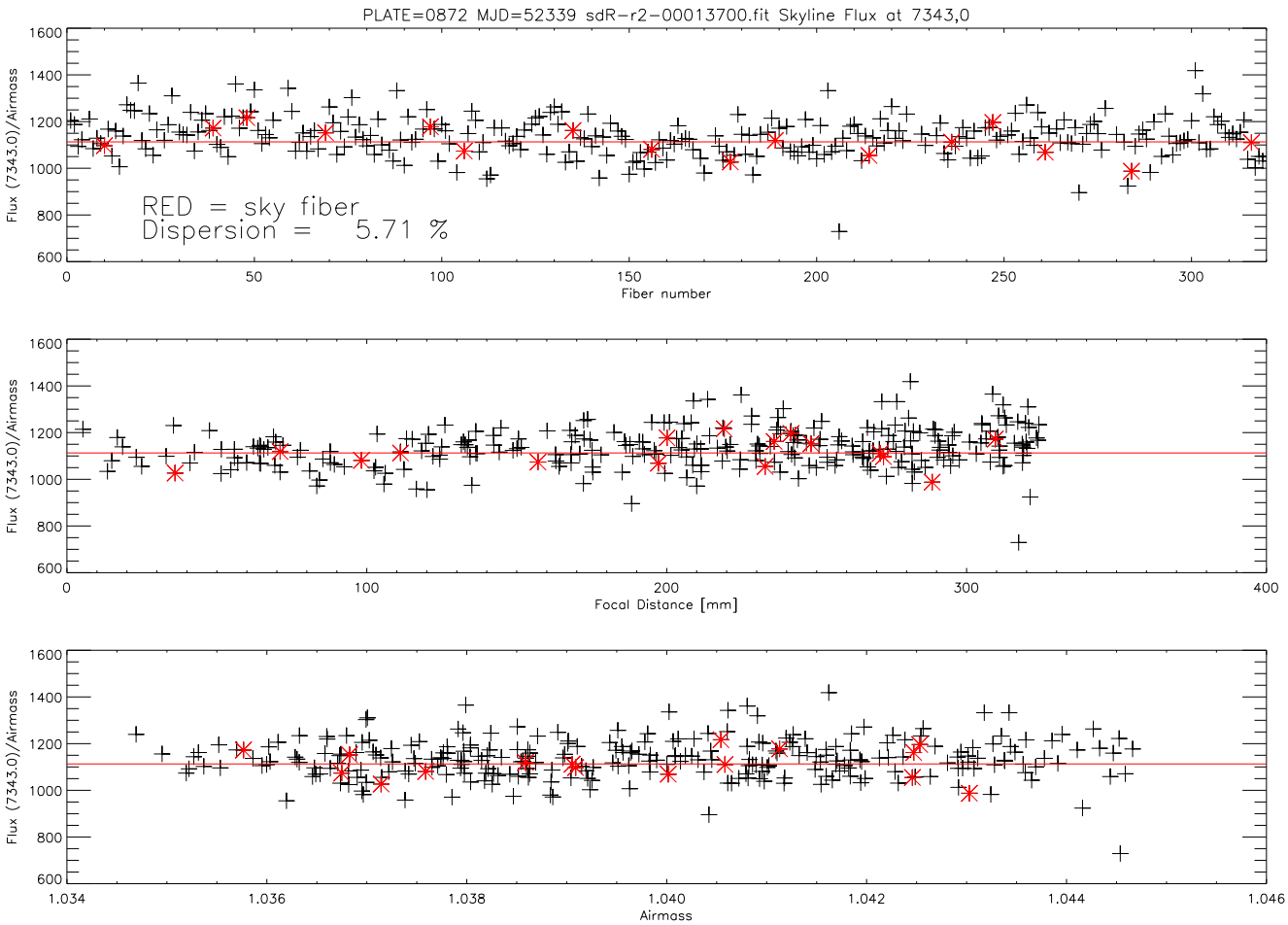

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r2-00013700.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

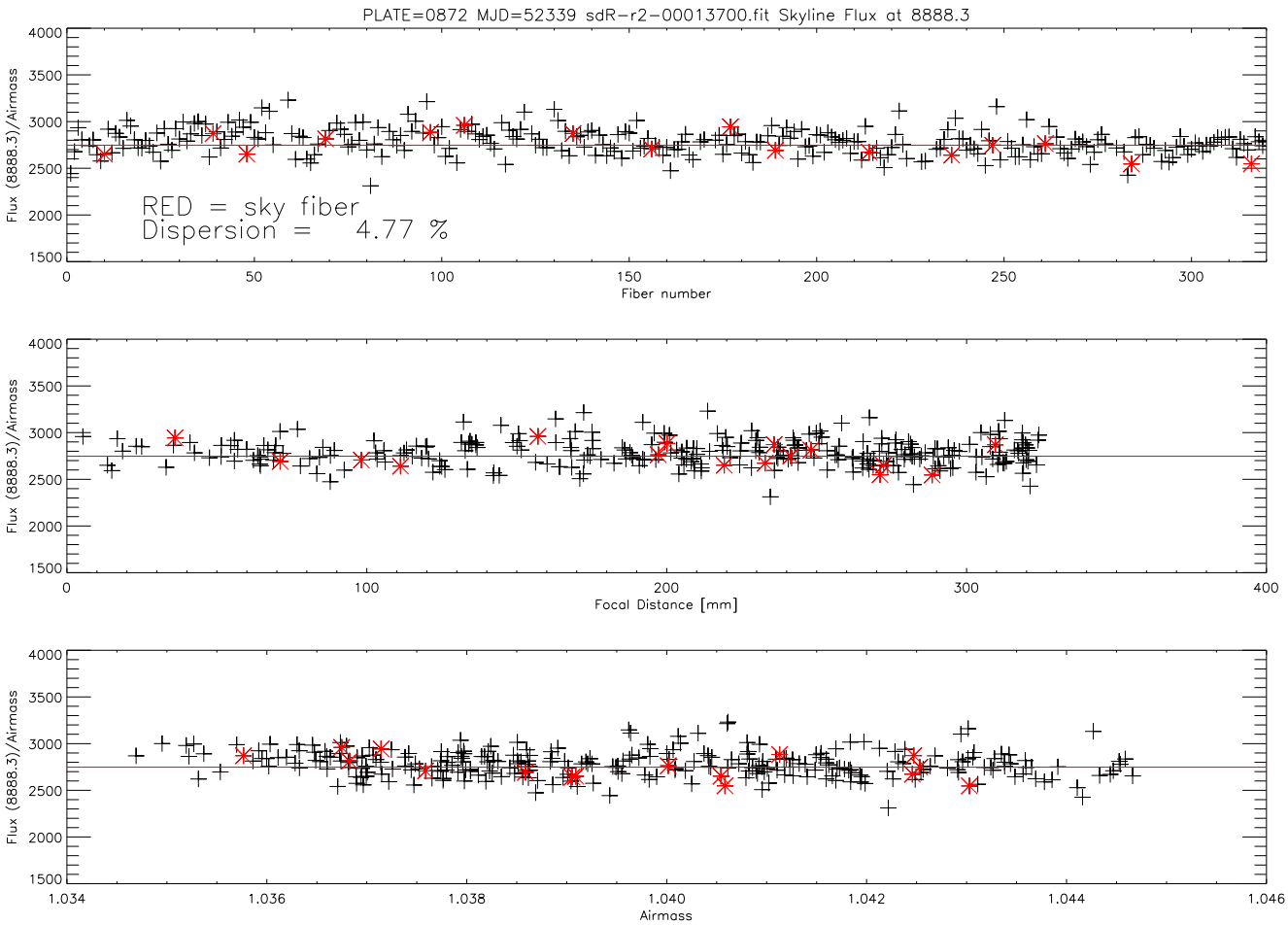

PLATE=0872 MJD=52339 sdR-r2-00013700.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

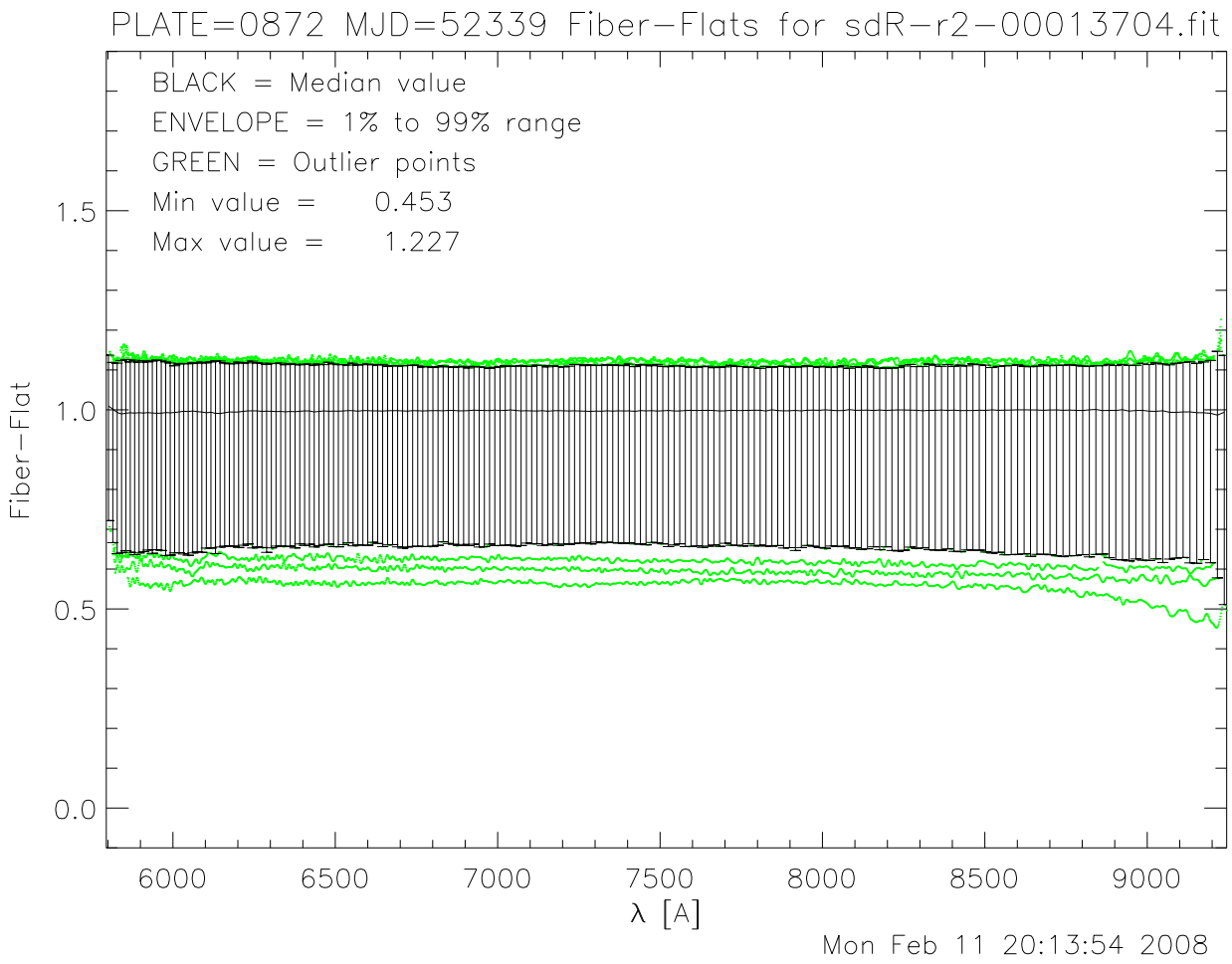

PLATE=0872 MJD=52339 sdR-r2-00013700.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

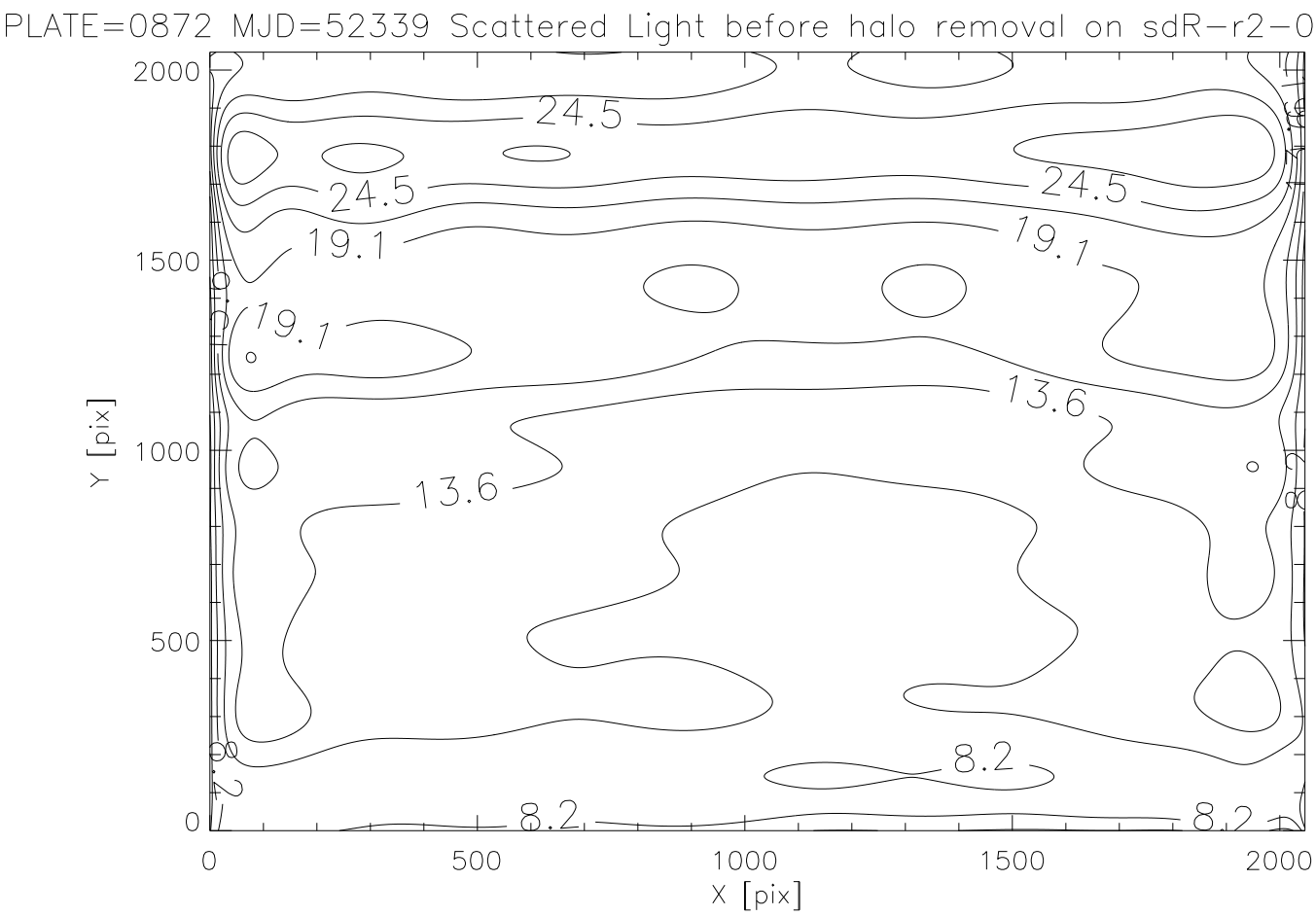

PLATE=0872 MJD=52339 sdR-r2-00013700.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

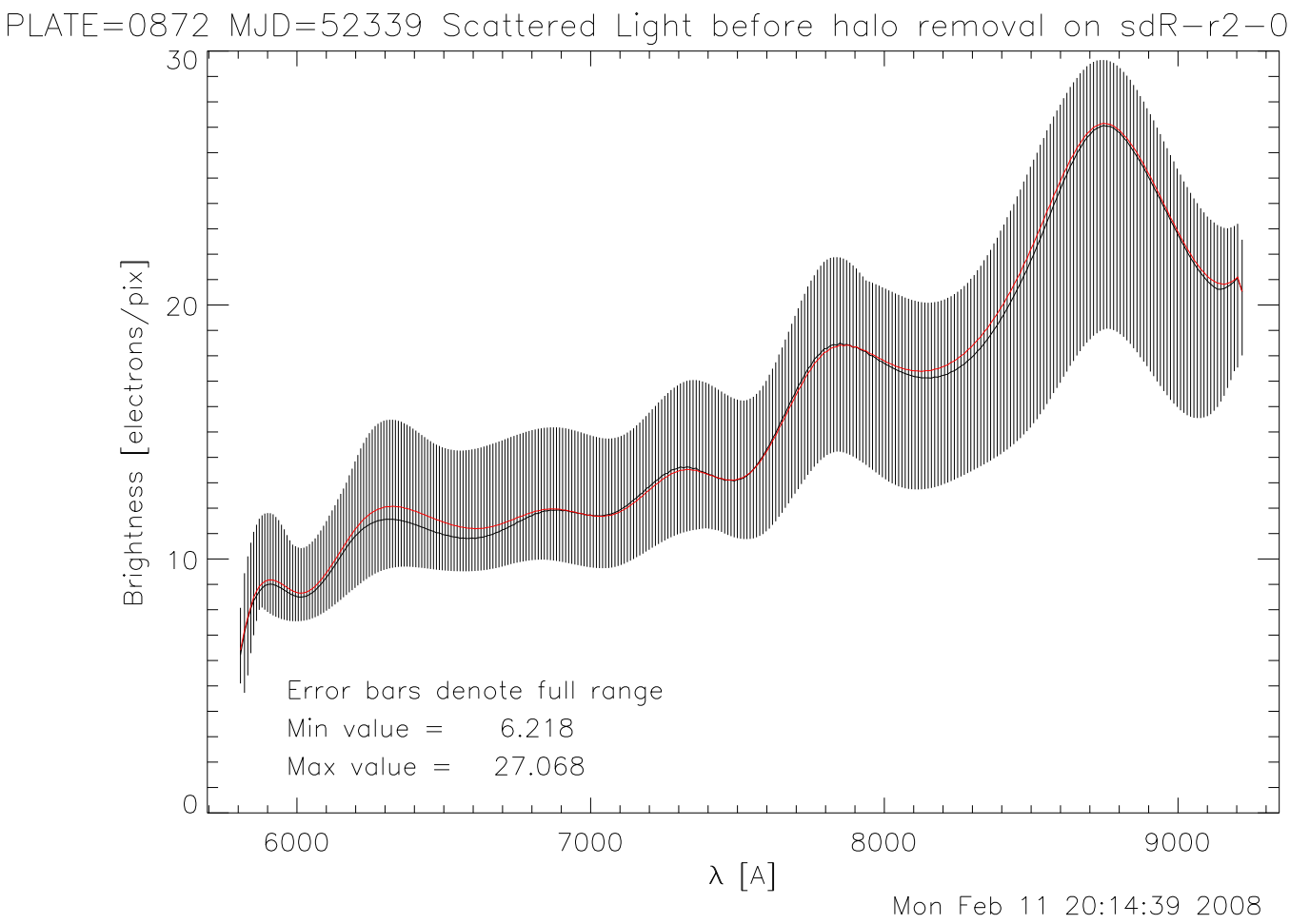

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r2-00013700.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

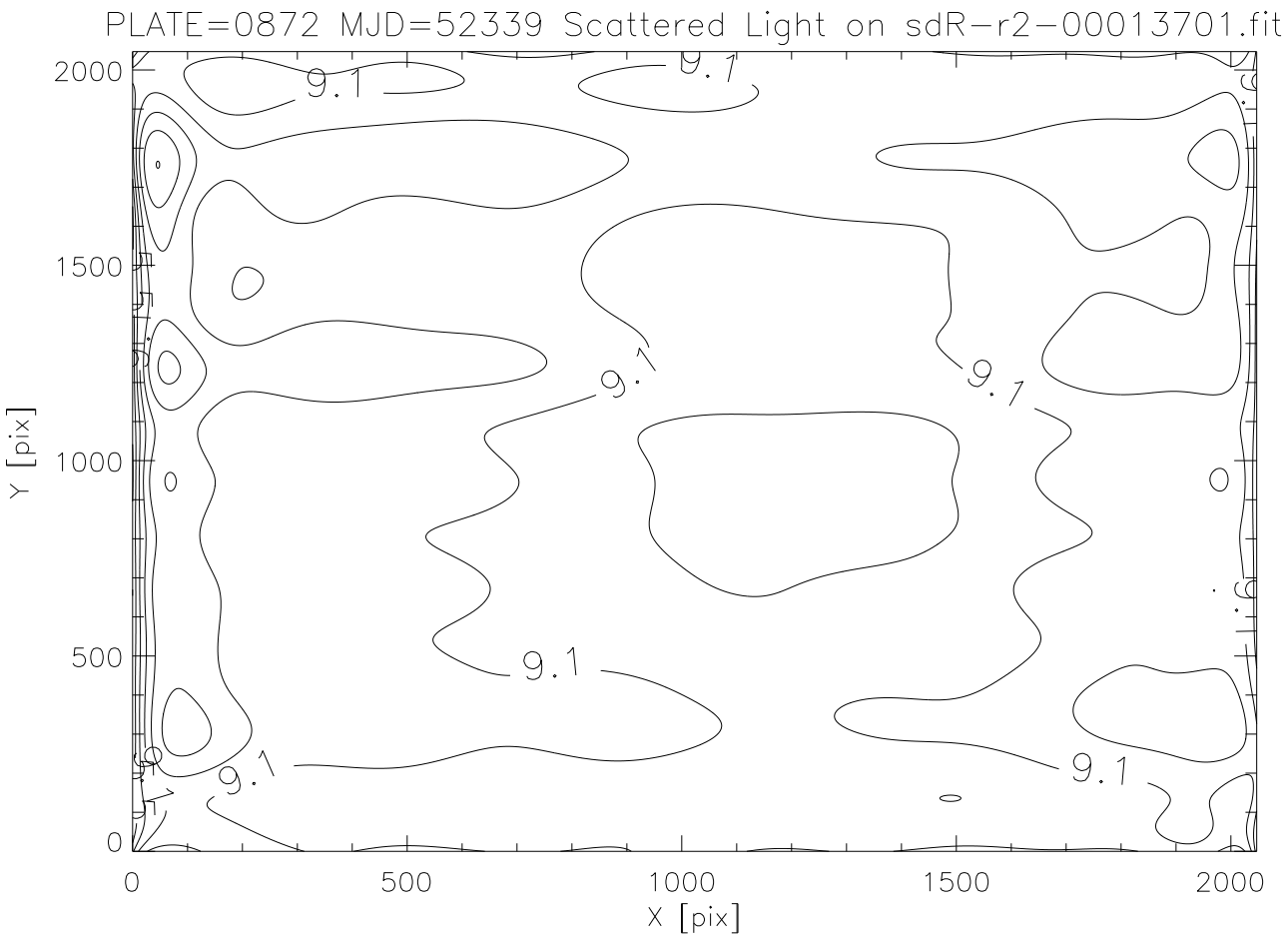

PLATE=0872 MJD=52339 sdR-r2-00013700.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 5.71 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

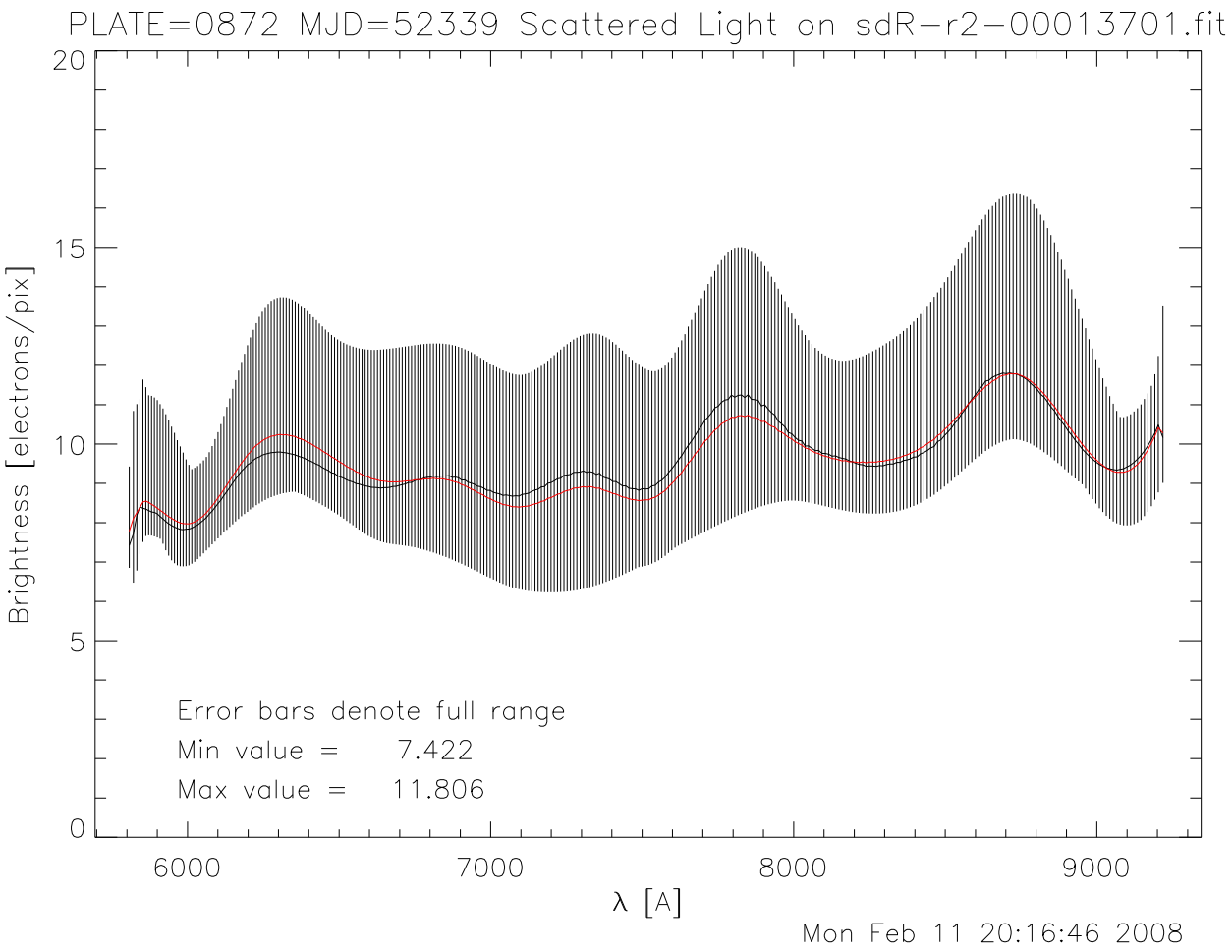

PLATE=0872 MJD=52339 sdR-r2-00013700.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.77 %
Fiber number
Focal Distance [mm]
Airmass

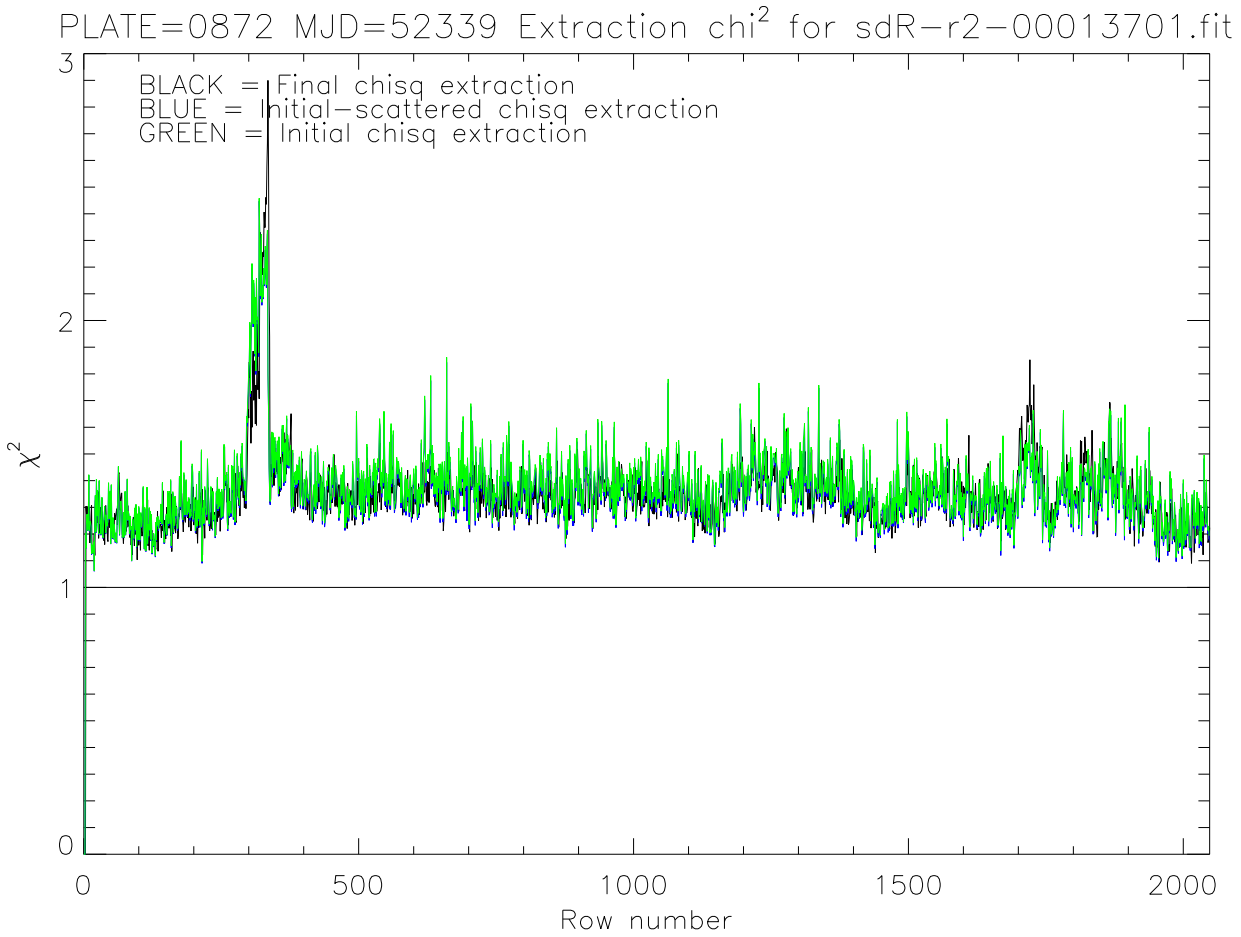

PLATE=0872 MJD=52339 Fiber-Flats for sdR-r2-00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.453
Max value = 1.227
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 20:13:54 2008

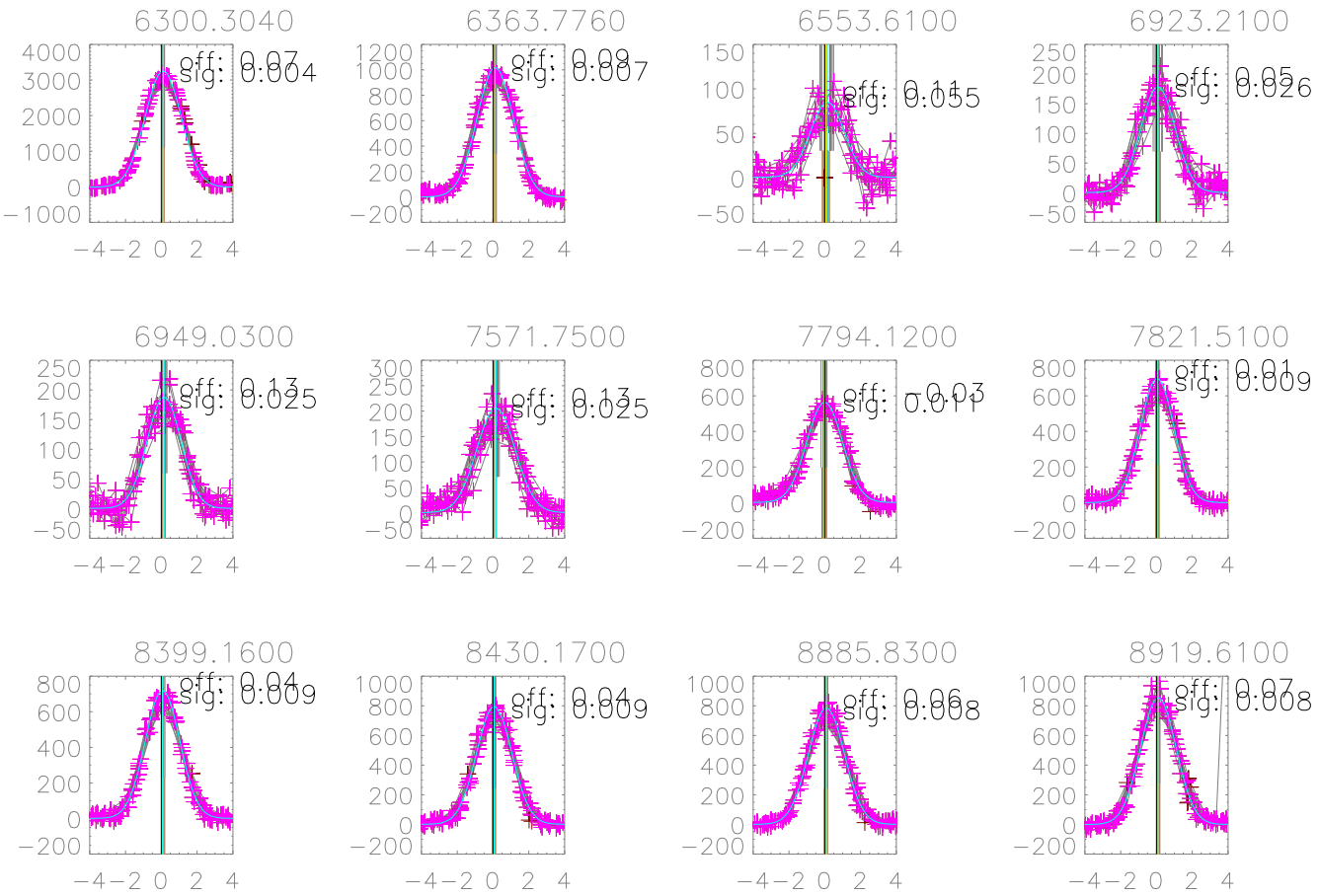

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r2-00013701.fi
24.5
24.5
24.5
19.1
19.1
19.1
13.6
13.6
8.2
8.2
8.2
Y [pix]
X [pix]
0
500
1000
1500
2000

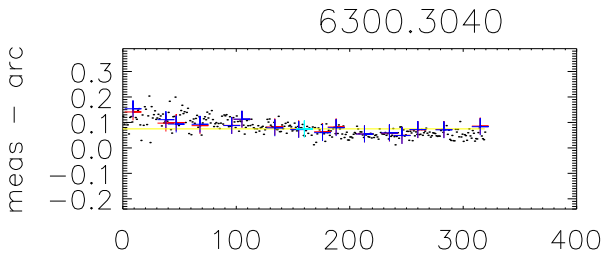

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r2-00013701.fi
Brightness [electrons/pix]
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.218
Max value = 27.068
Mon Feb 11 20:14:39 2008

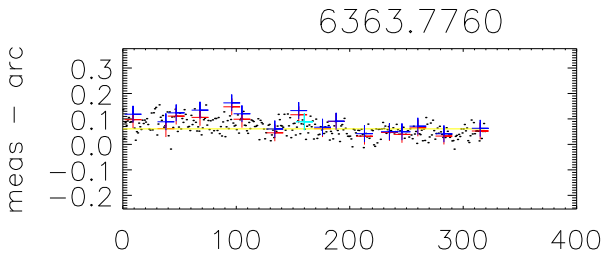

PLATE=0872 MJD=52339 Scattered Light on sdR-r2-00013701.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
0

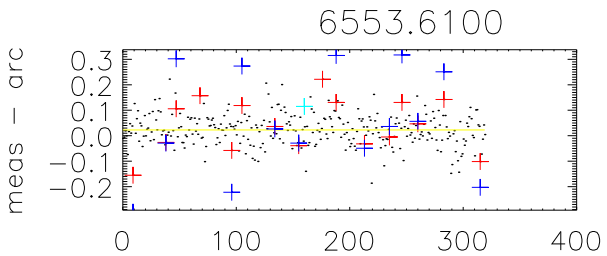

PLATE=0872 MJD=52339 Scattered Light on sdR-r2-00013701.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 7.422
Max value = 11.806
Mon Feb 11 20:16:46 2008

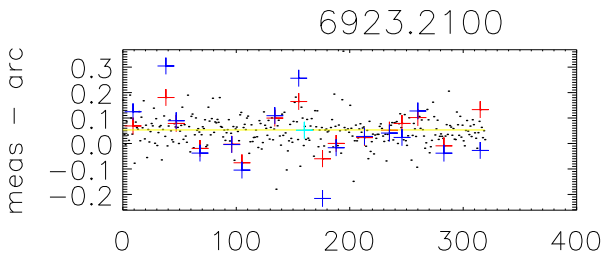

PLATE=0872 MJD=52339 Extraction chi^2 for sdR−r2−00013701.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
0
500
1000
1500
2000
Row number

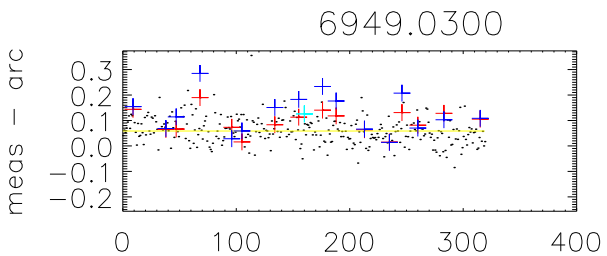

6300.3040
off: 0.07
sig: 0.004
6363.7760
off: 0.09
sig: 0.007
6553.6100
off: 0.11
sig: 0.055
6923.2100
off: 0.05
sig: 0.026
6949.0300
off: 0.13
sig: 0.025
7571.7500
off: 0.13
sig: 0.025
7794.1200
off: 0.03
sig: 0.011
7821.5100
off: 0.01
sig: 0.009
8399.1600
off: 0.04
sig: 0.009
8430.1700
off: 0.04
sig: 0.009
8885.8300
off: 0.06
sig: 0.008
8919.6100
off: 0.07
sig: 0.008

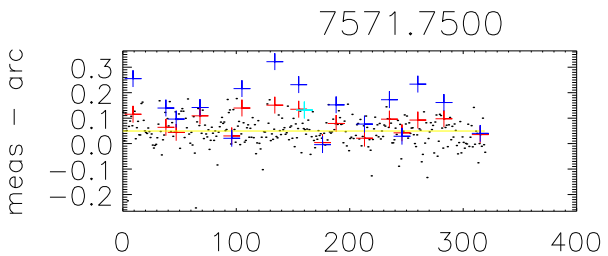

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

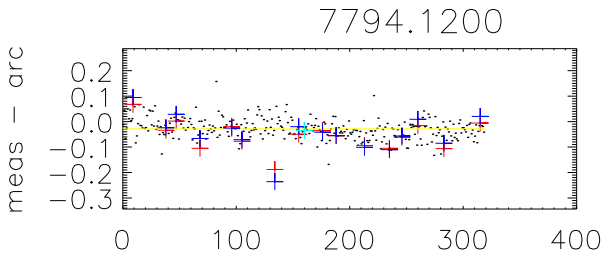

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

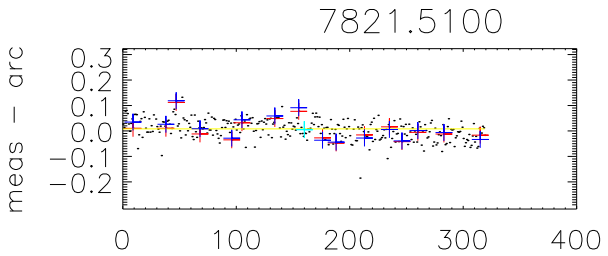

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

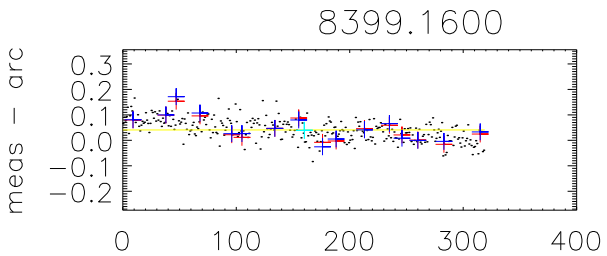

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

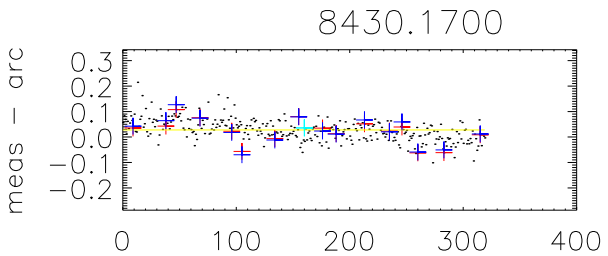

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

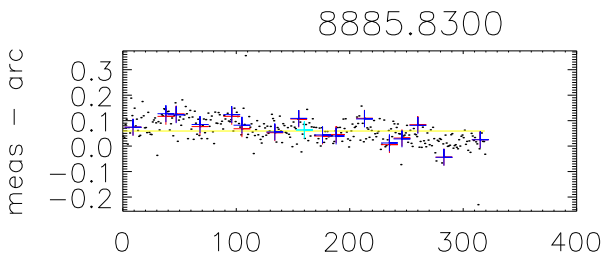

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

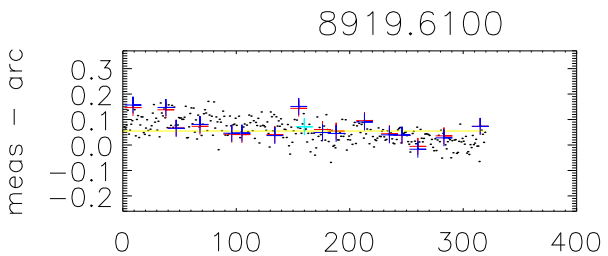

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

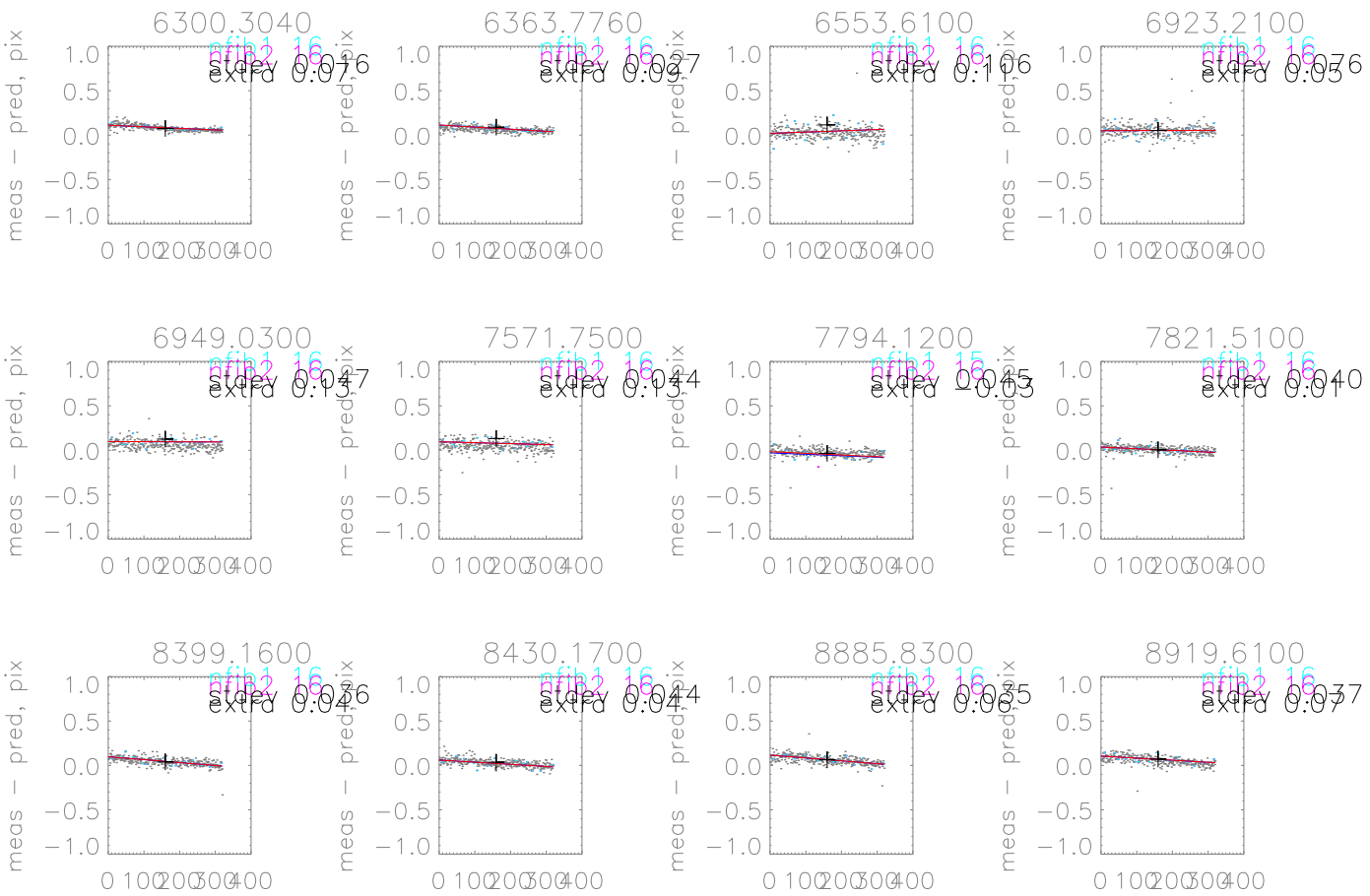

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

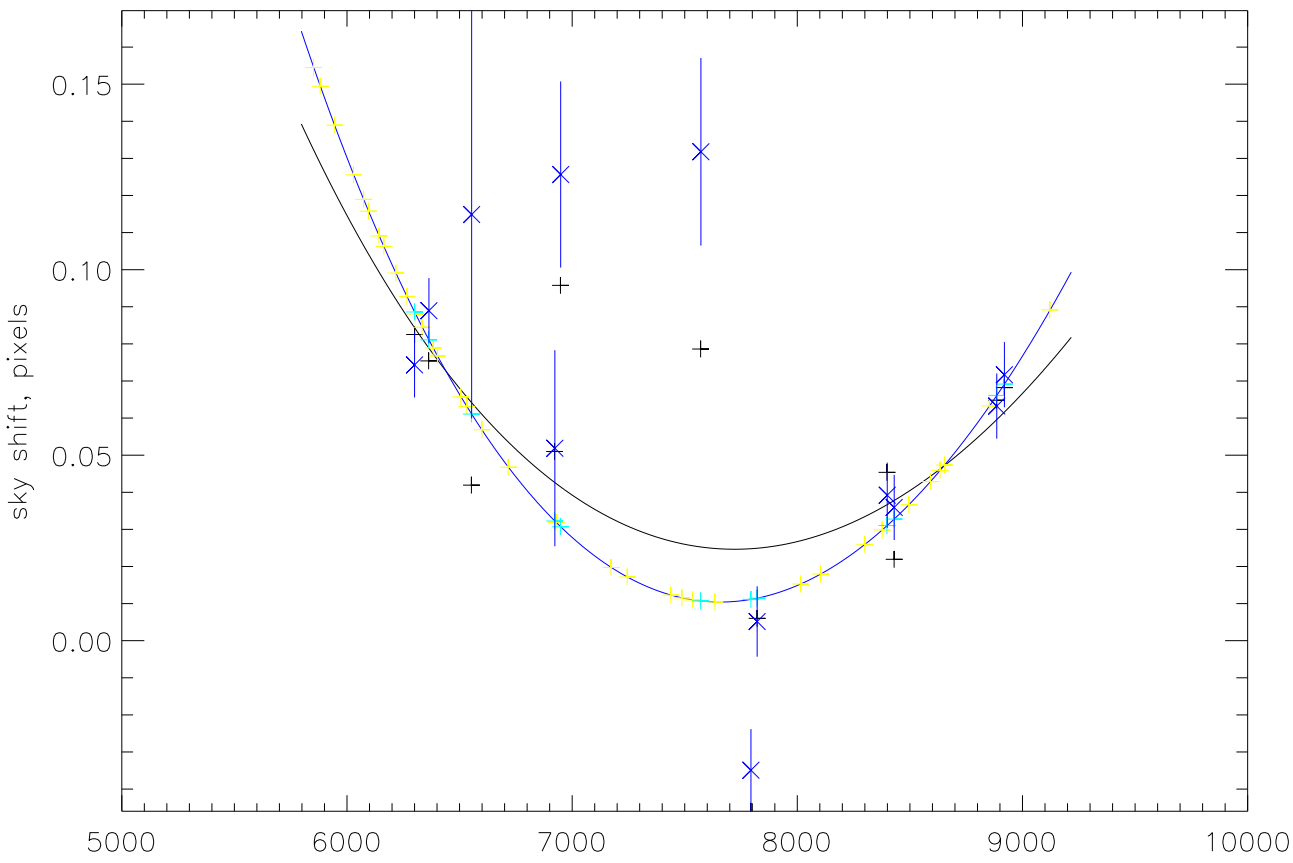

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

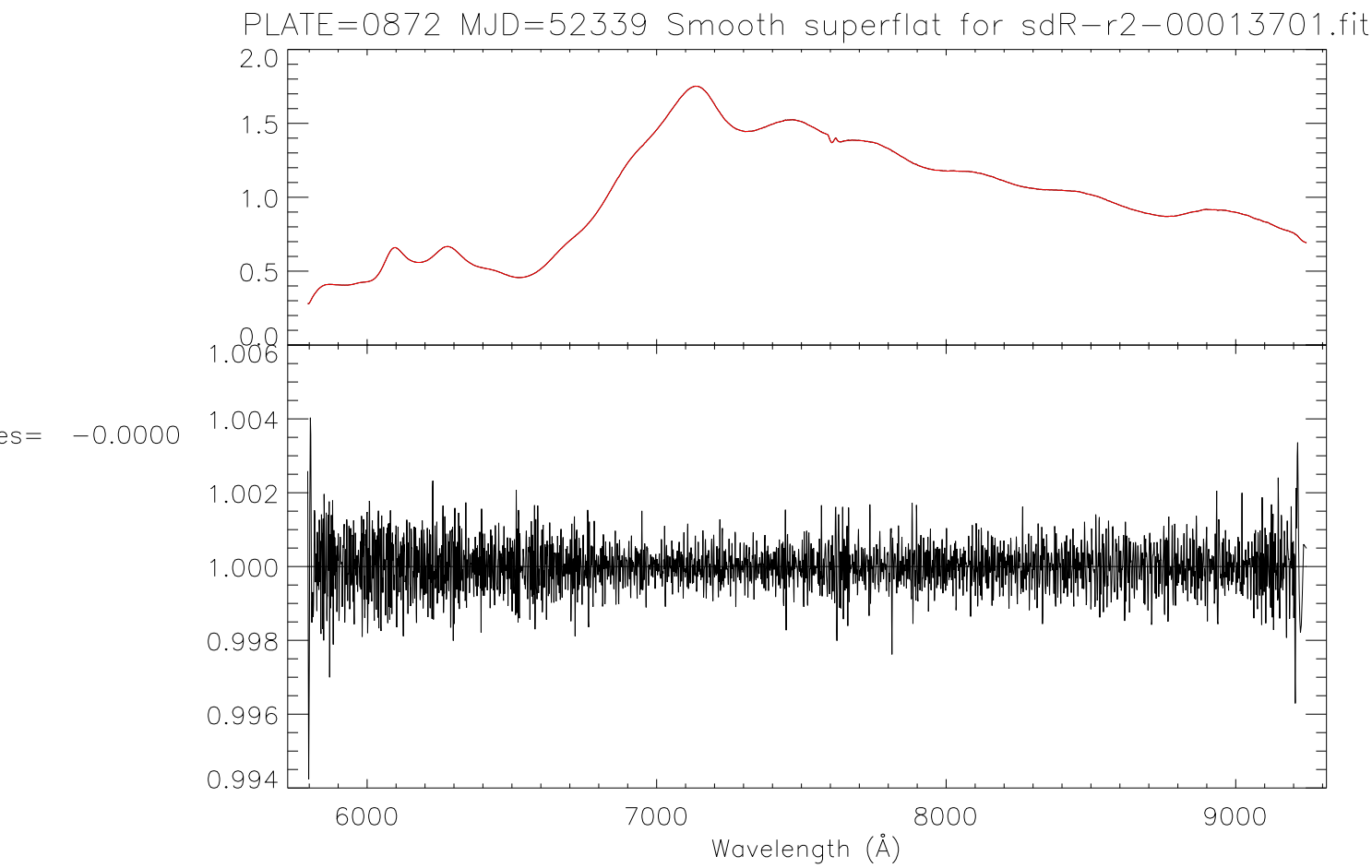

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

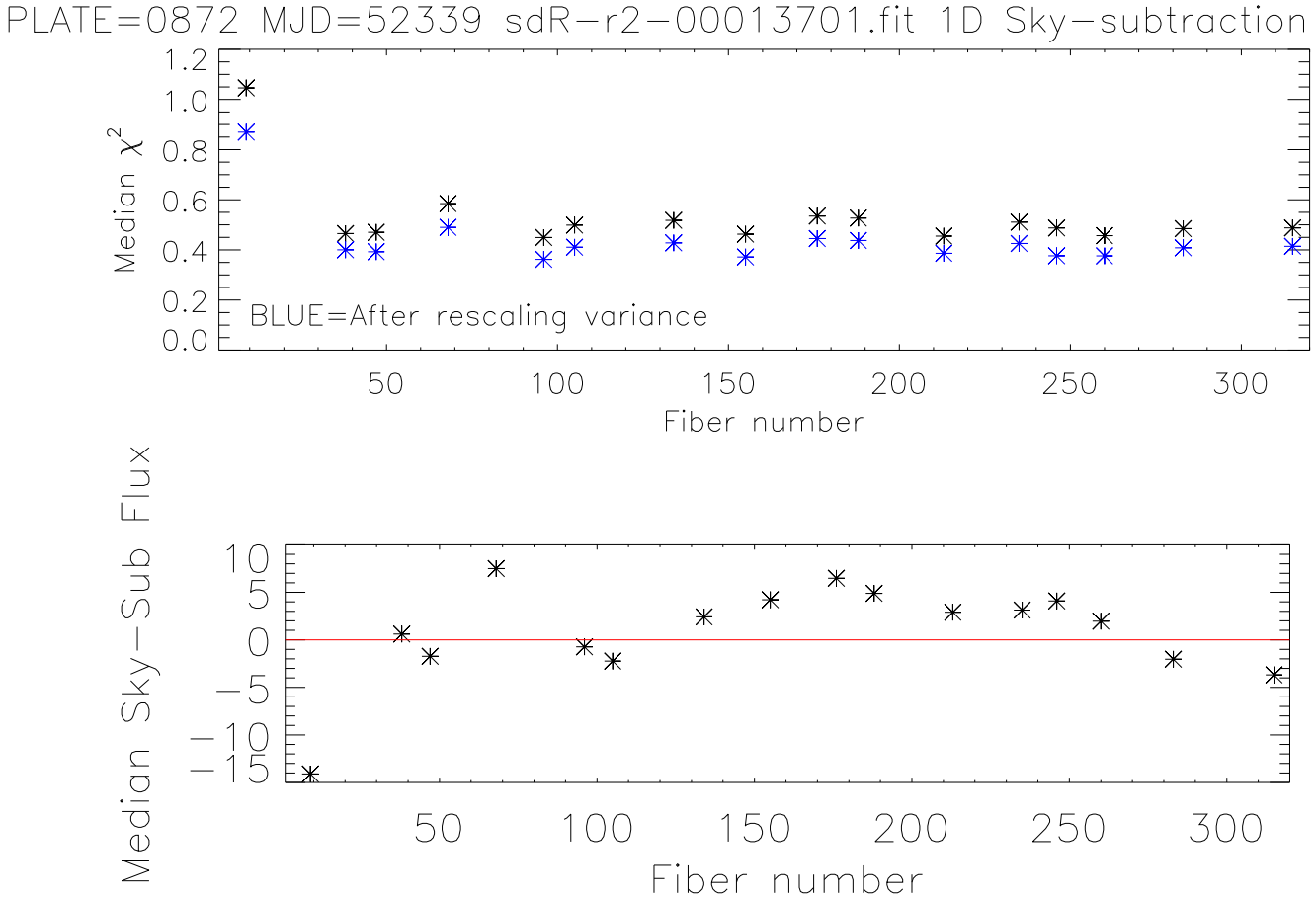

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

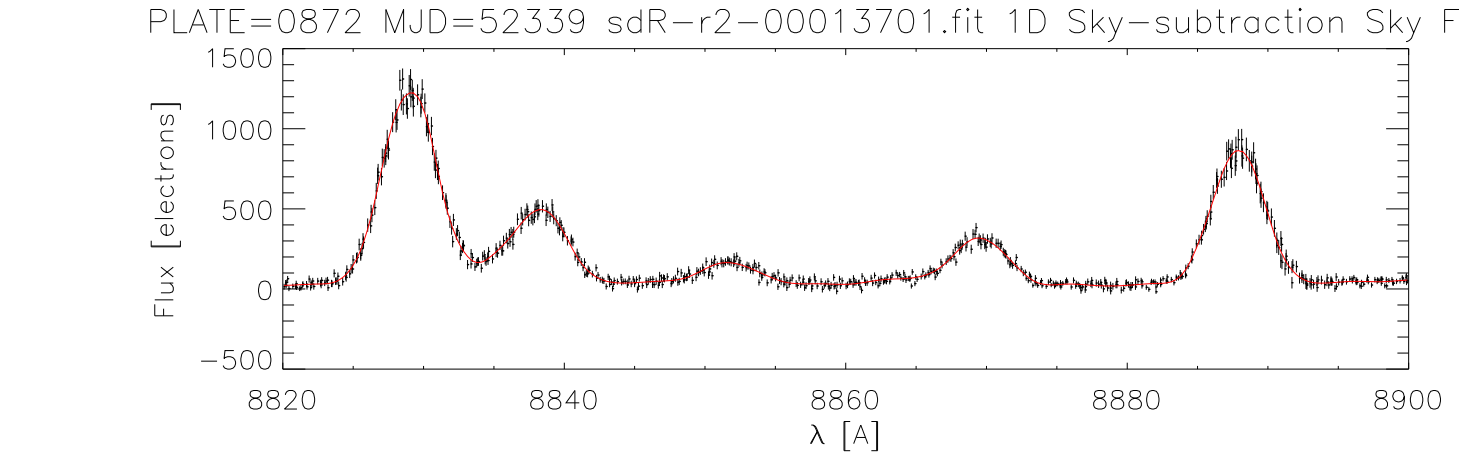

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

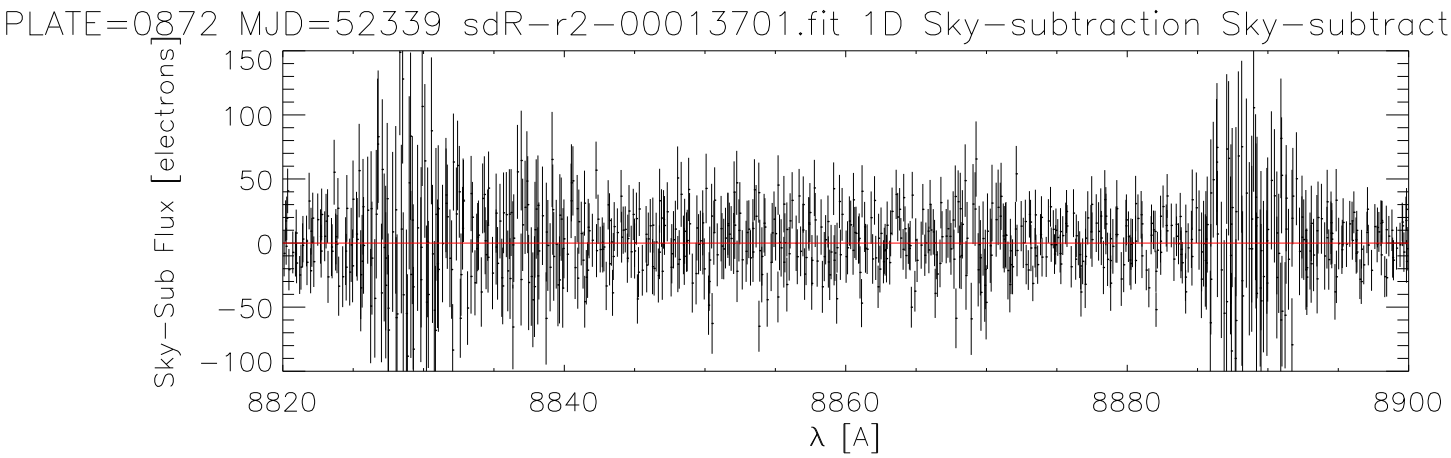

6300.3040
stdev 0.076
extra 0.07
6363.7760
stdev 0.077
extra 0.06
6553.6100
stdev 0.106
extra 0.1
6923.2100
stdev 0.076
extra 0.05
6949.0300
stdev 0.047
extra 0.13
7571.7500
stdev 0.044
extra 0.13
7794.1200
stdev 0.045
extra −0.03
7821.5100
stdev 0.040
extra 0.01
8399.1600
stdev 0.076
extra 0.04
8430.1700
stdev 0.044
extra 0.04
8885.8300
stdev 0.035
extra 0.06
8919.6100
stdev 0.037
extra 0.07
meas − pred, pix
mfib2 16
mfib1 16
0 100 200 300 400
1.0
0.5
0.0
−0.5
−1.0

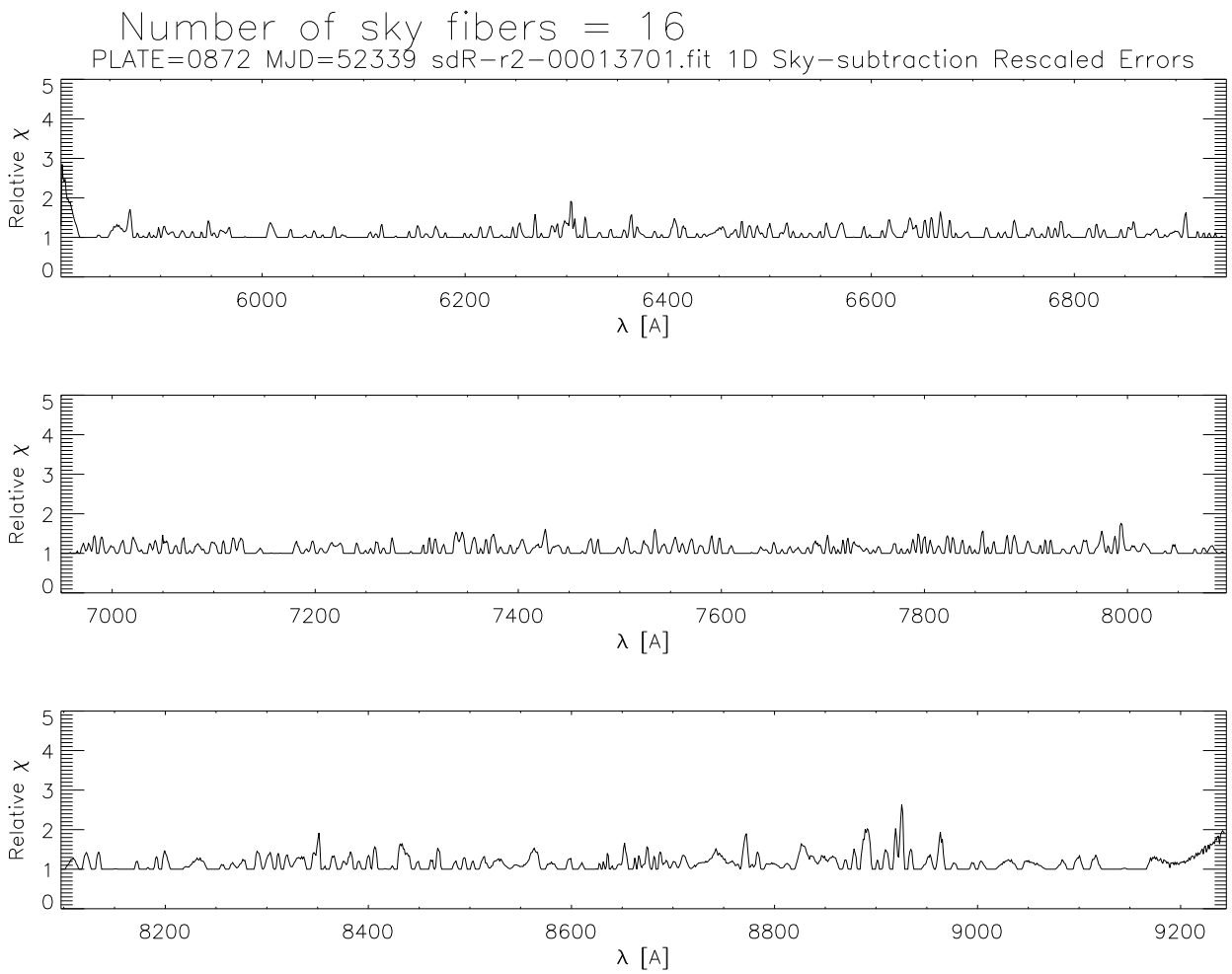

0.15
0.10
0.05
0.00
sky shift, pixels
5000
6000
7000
8000
9000
10000

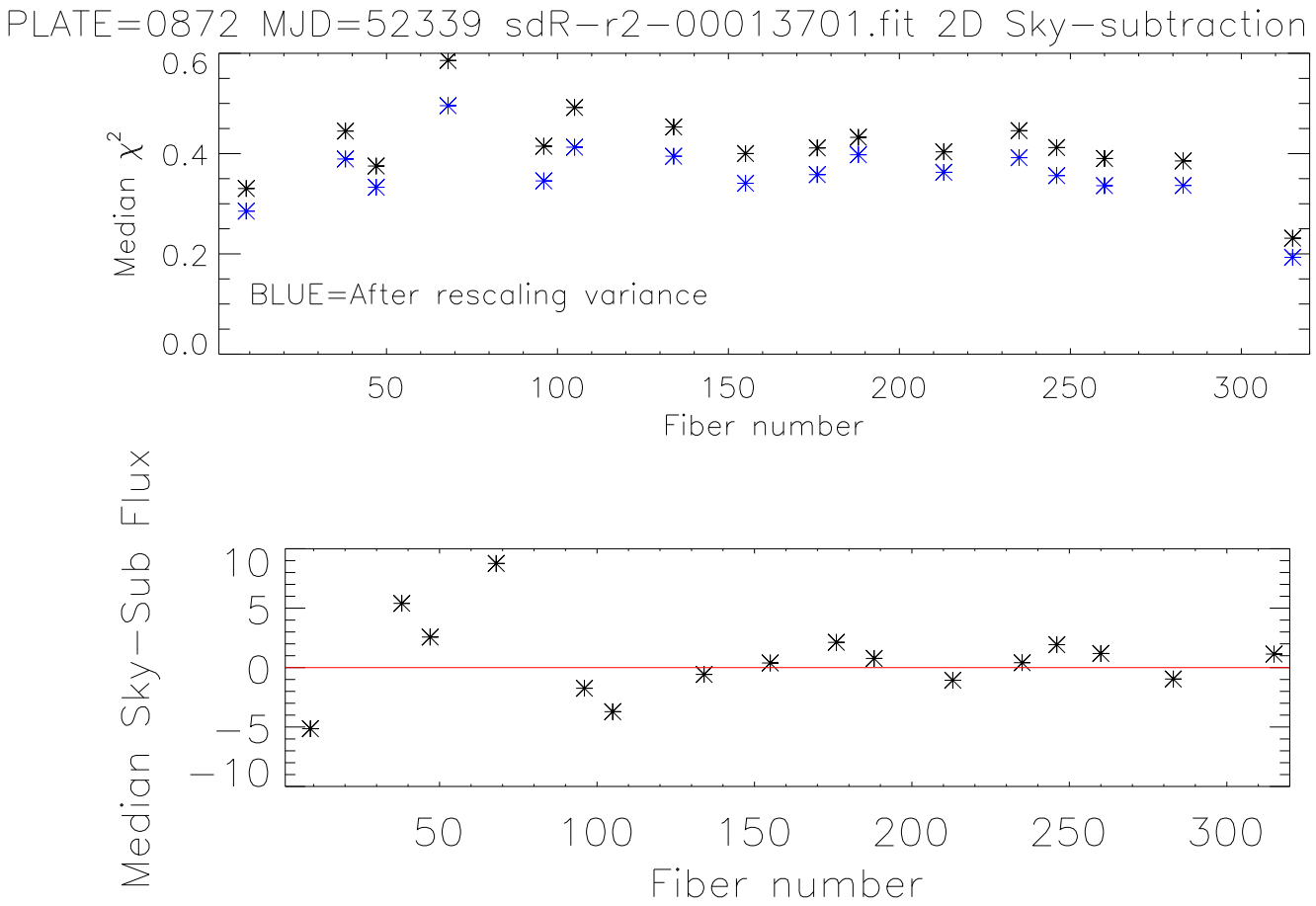

PLATE=0872 MJD=52339 Smooth superflat for sdR-r2-00013701.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

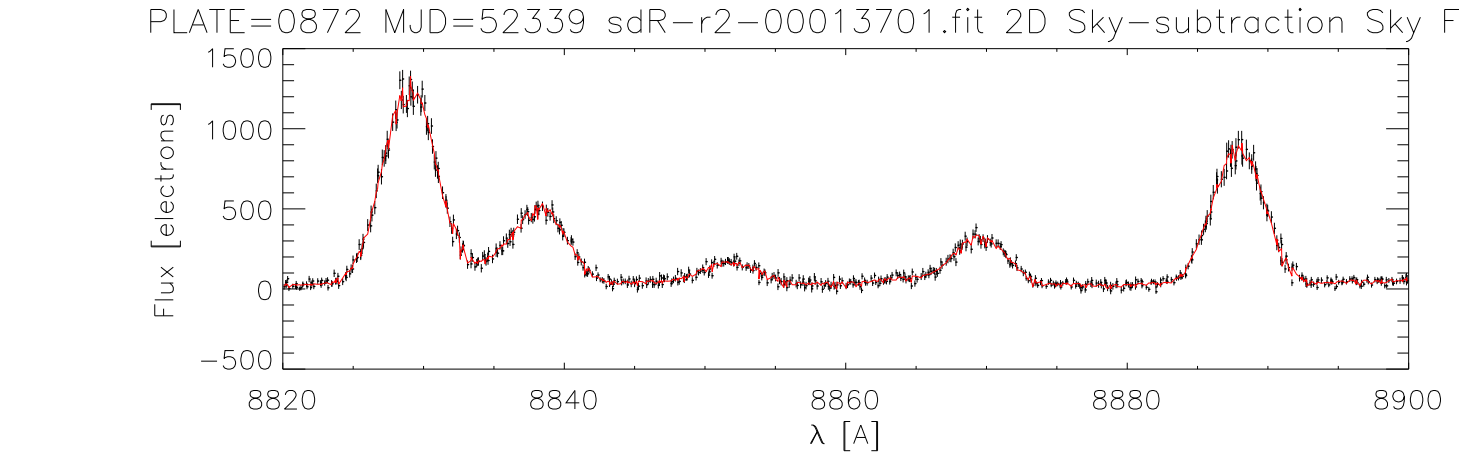

PLATE=0872 MJD=52339 sdR-r2-00013701.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

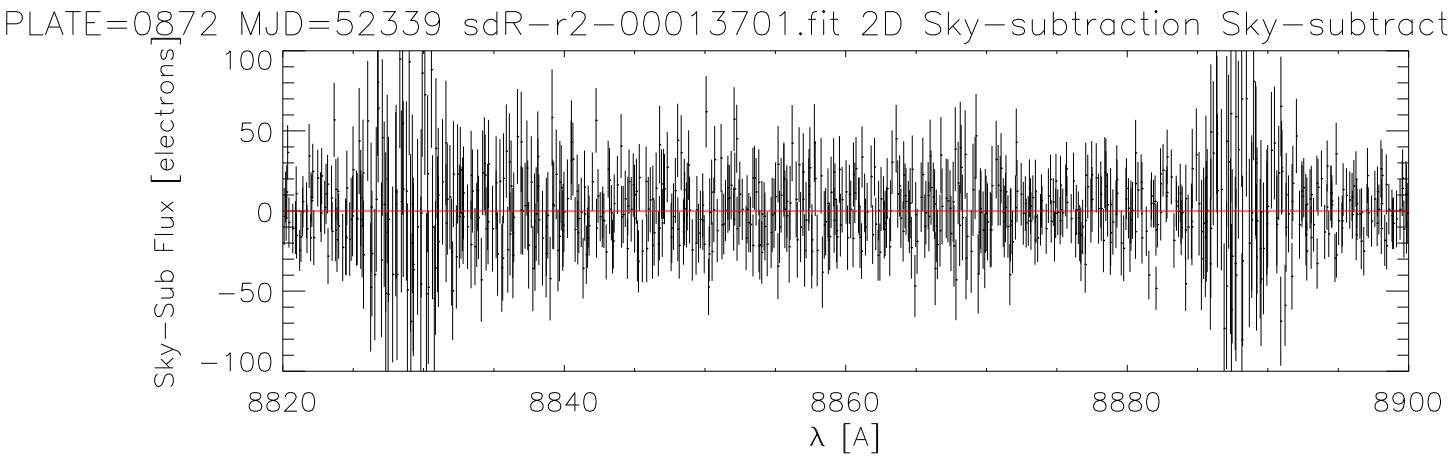

PLATE=0872 MJD=52339 sdR-r2-00013701.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

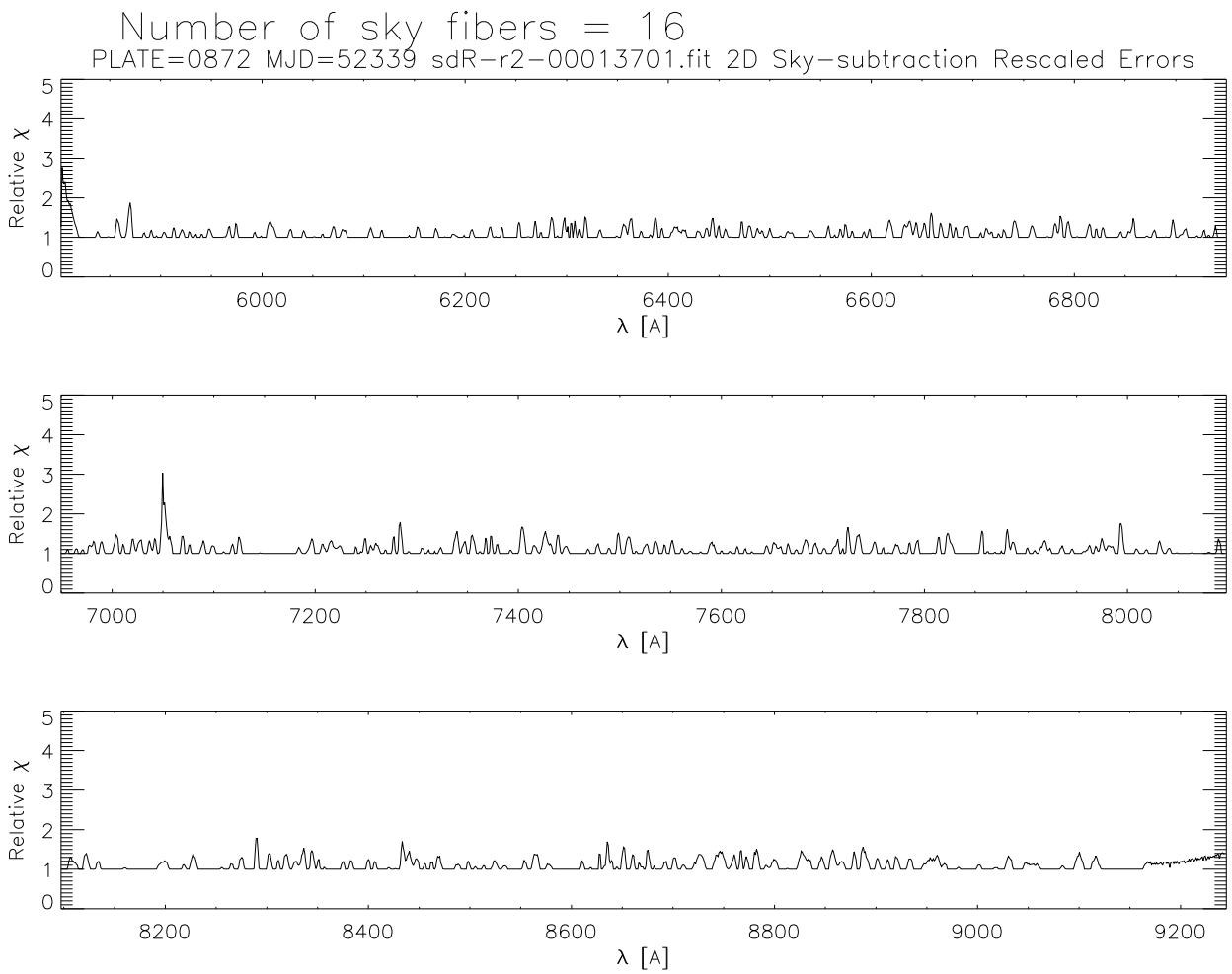

PLATE=0872 MJD=52339 sdR-r2-00013701.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

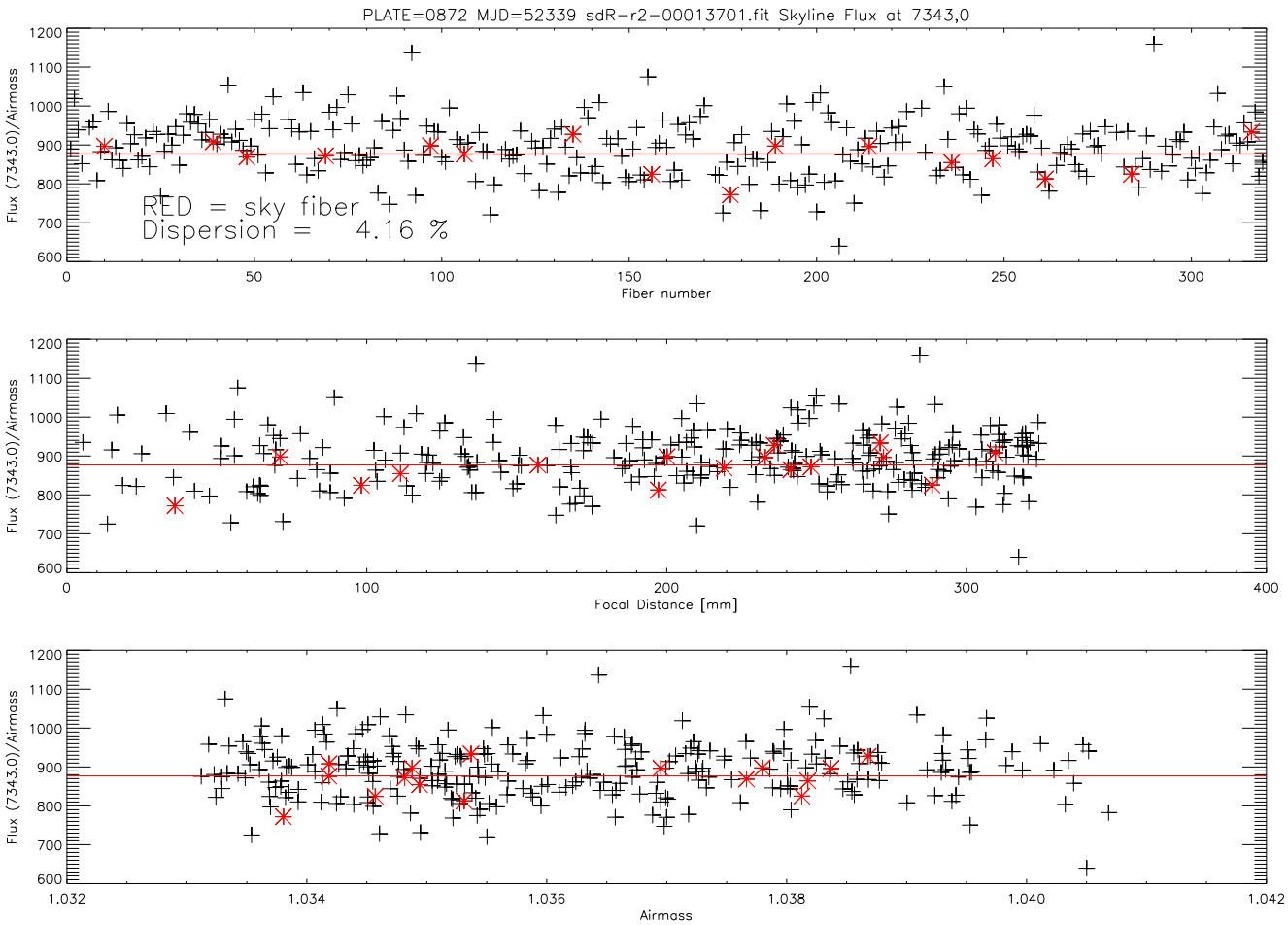

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r2-00013701.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

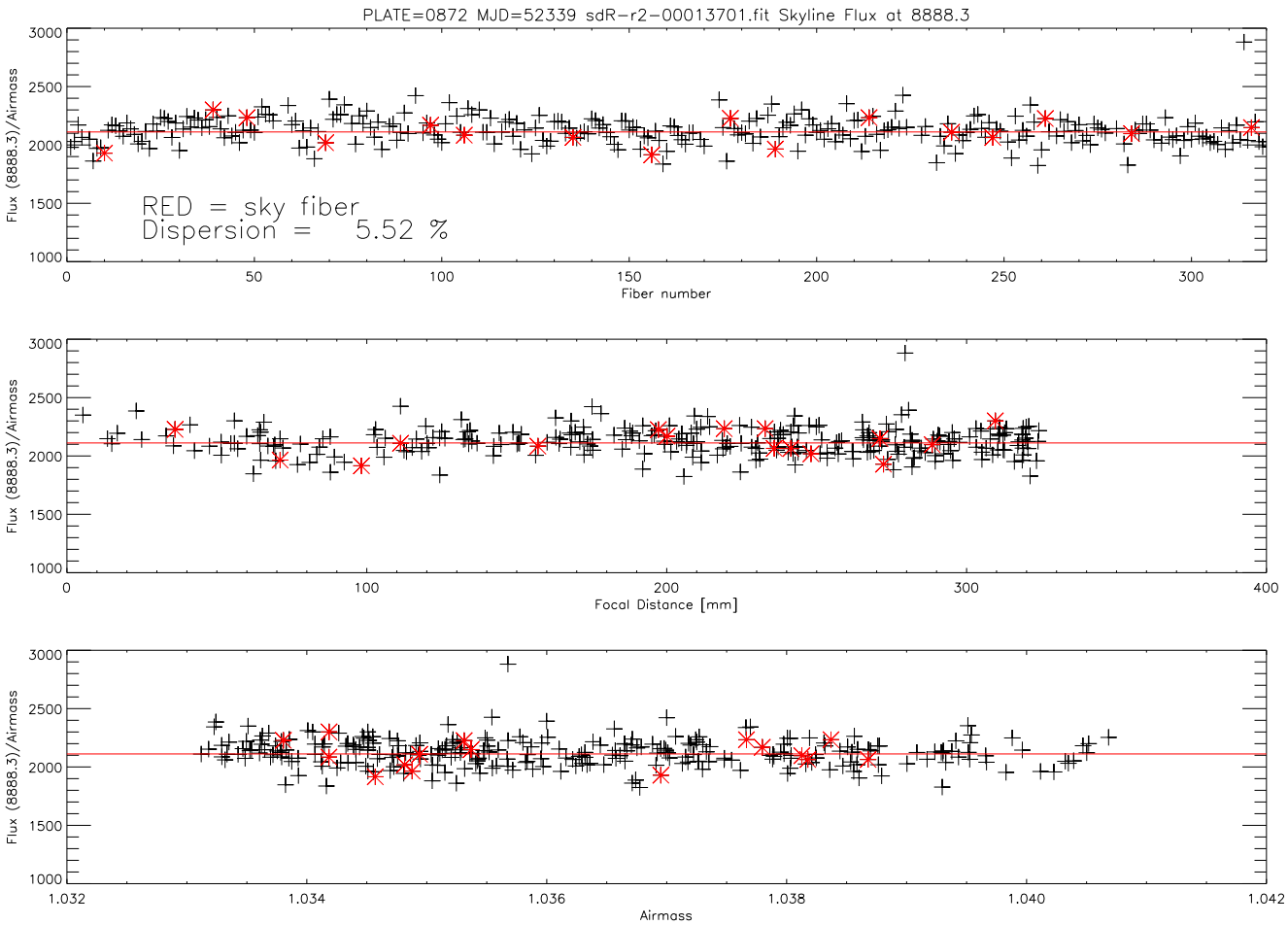

PLATE=0872 MJD=52339 sdR-r2-00013701.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

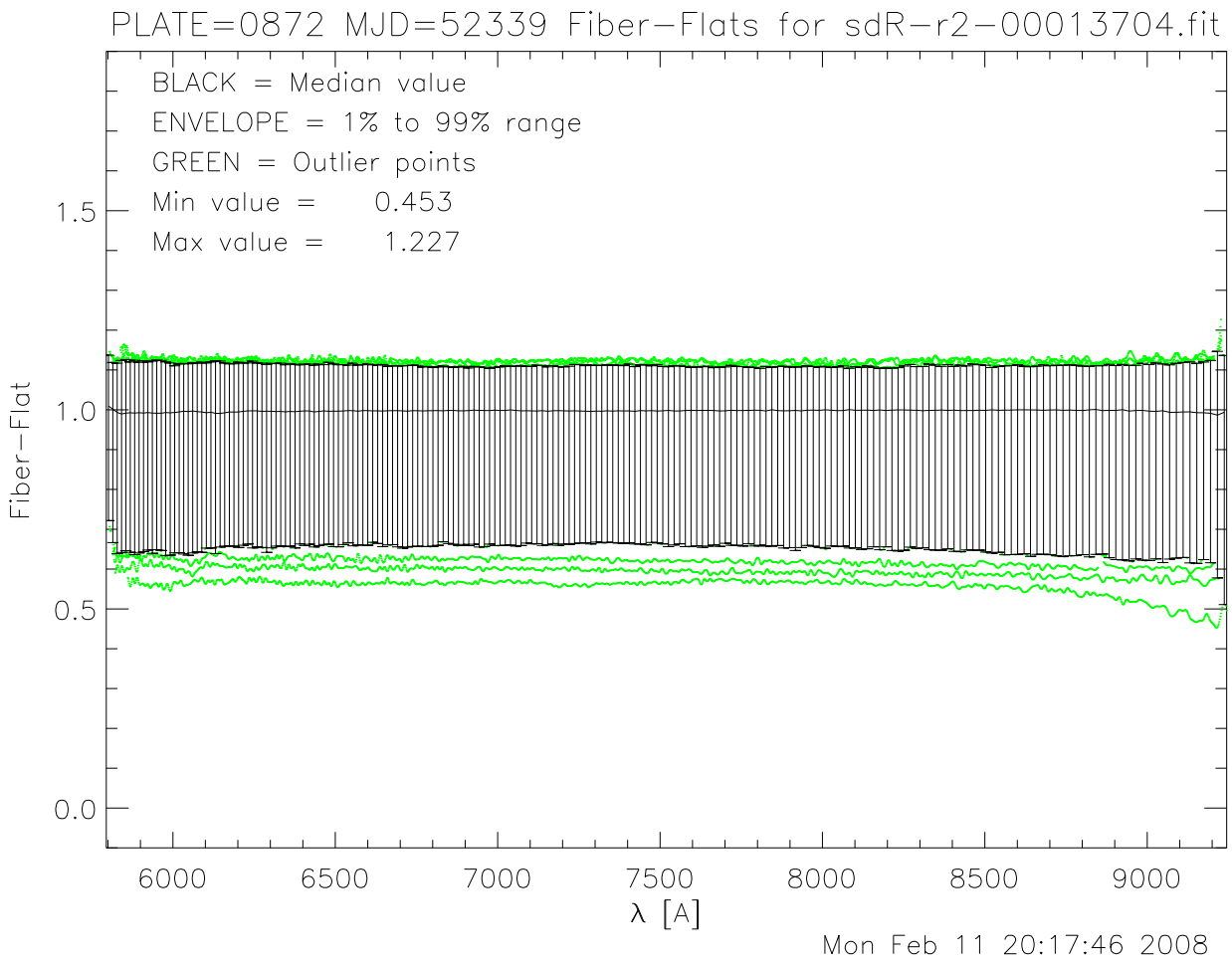

PLATE=0872 MJD=52339 sdR-r2-00013701.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

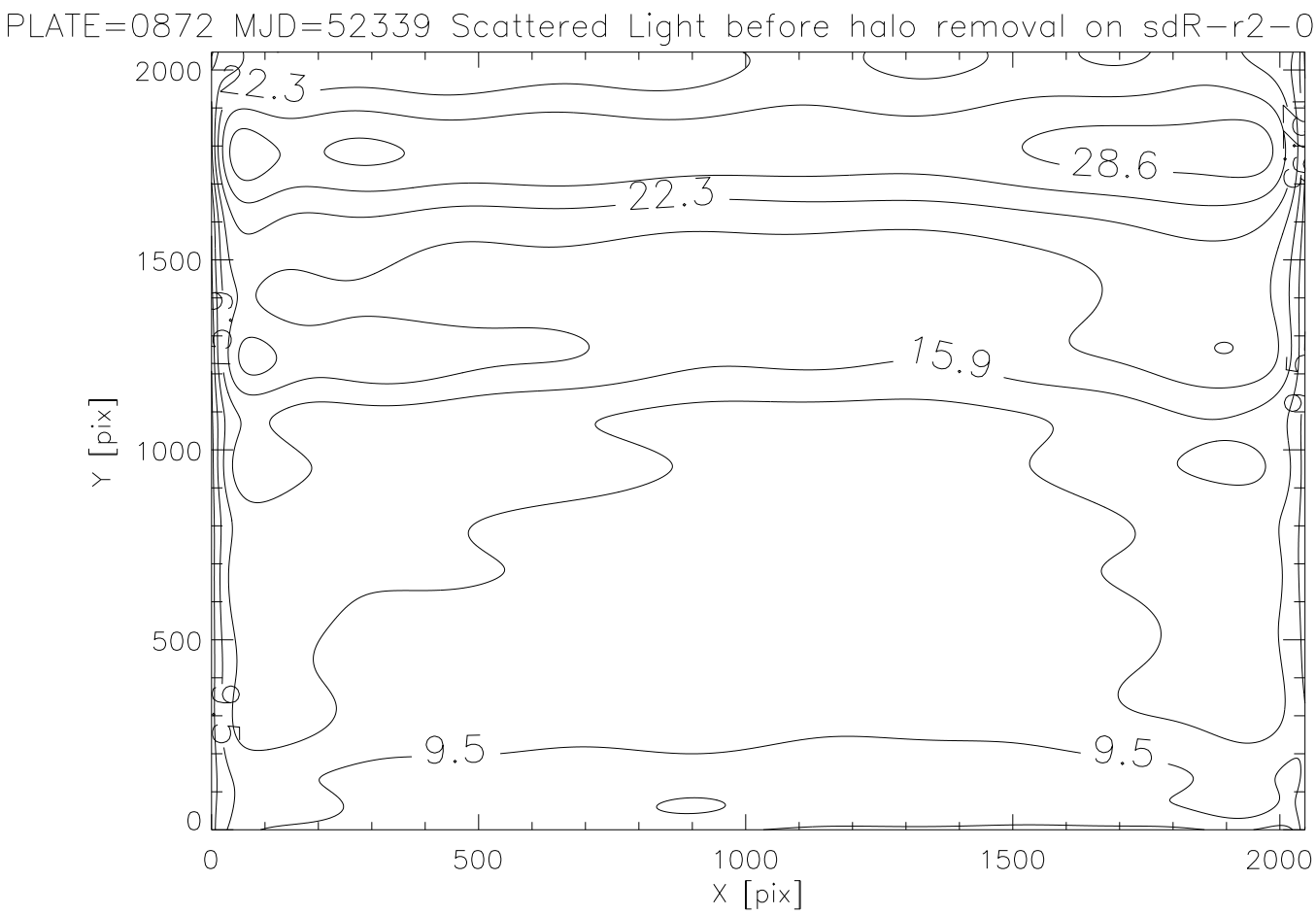

PLATE=0872 MJD=52339 sdR-r2-00013701.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

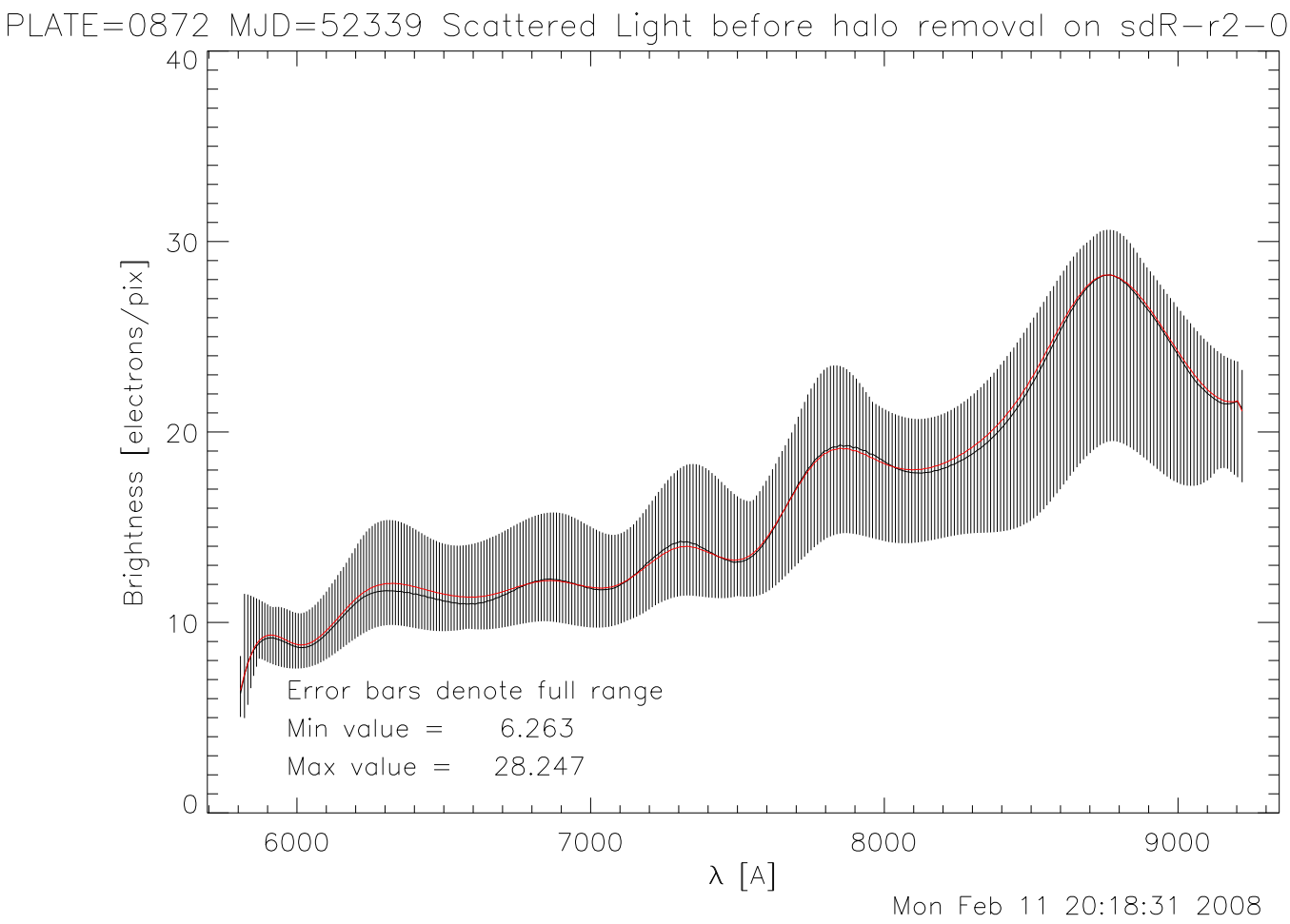

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r2-00013701.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

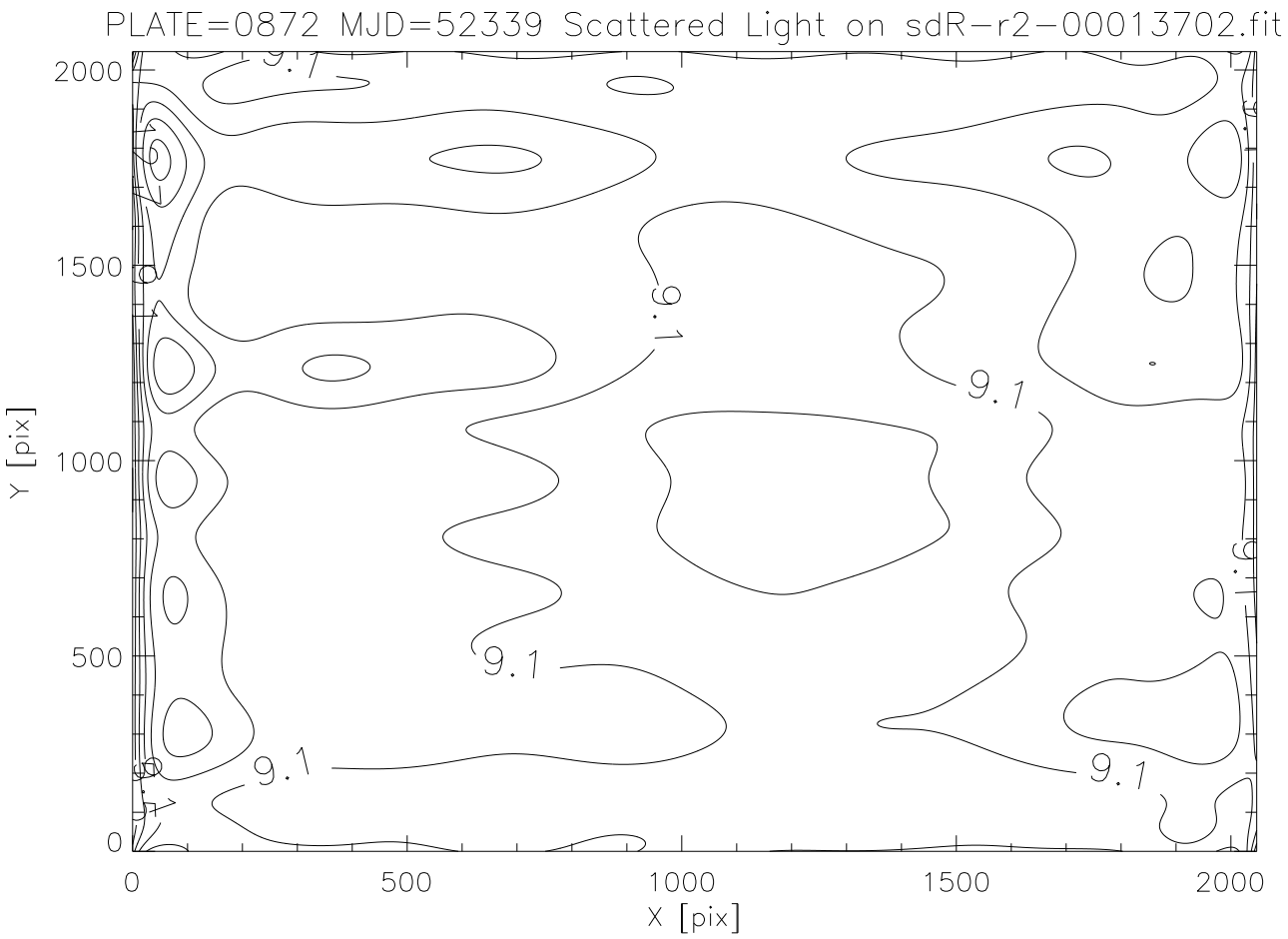

PLATE=0872 MJD=52339 sdR-r2-00013701.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.16 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

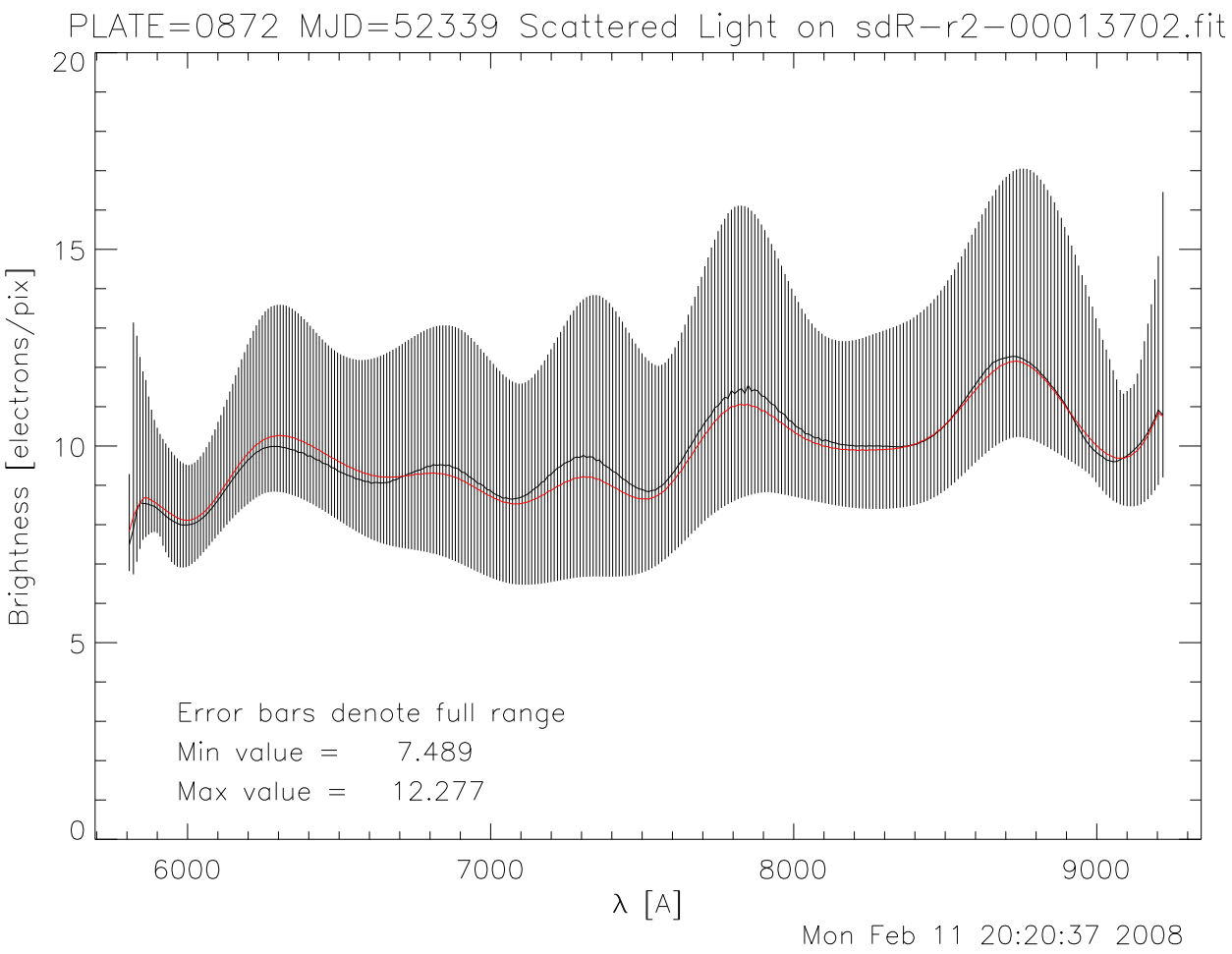

PLATE=0872 MJD=52339 sdR-r2-00013701.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 5.52 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

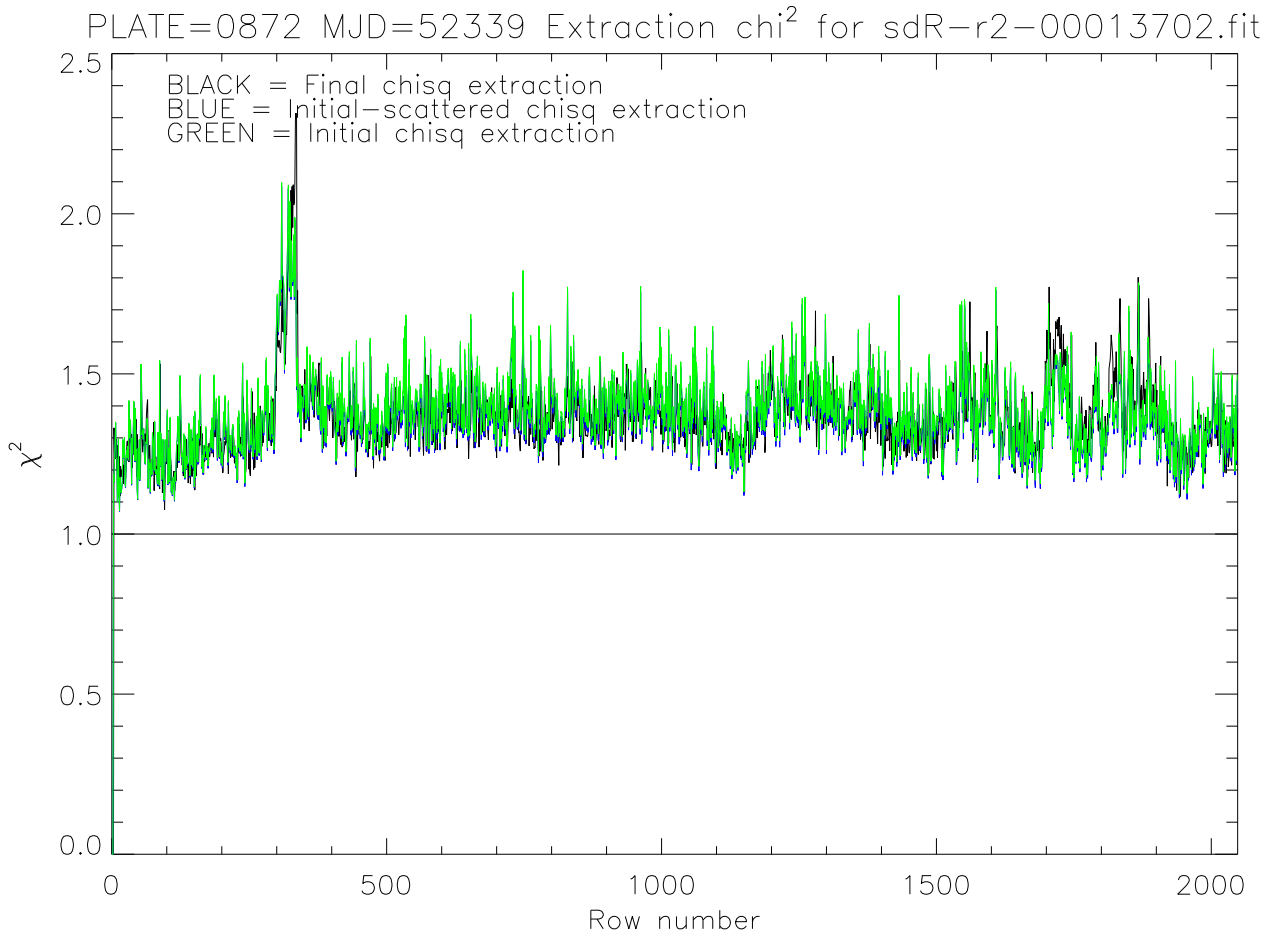

PLATE=0872 MJD=52339 Fiber−Flats for sdR−r2−00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.453
Max value = 1.227
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 20:17:46 2008

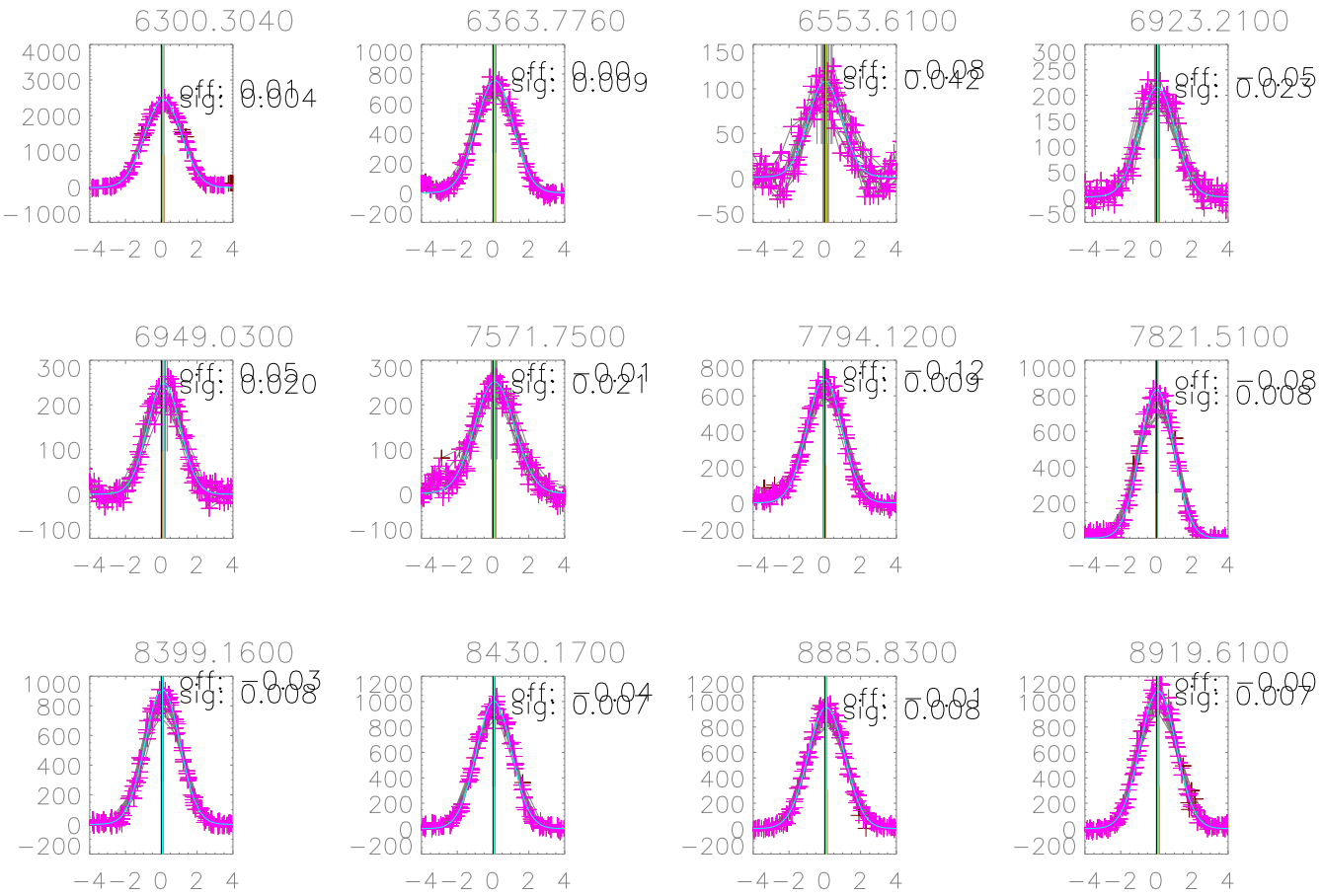

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r2-00013702.fi
22.3
28.6
22.3
15.9
9.5
9.5
Y [pix]
X [pix]
0
500
1000
1500
2000

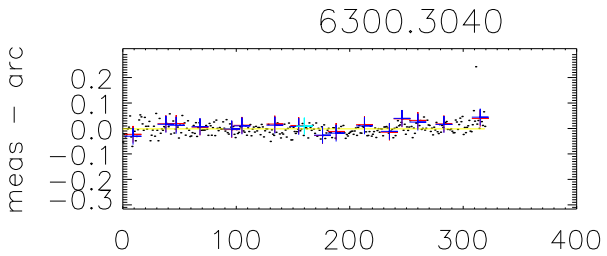

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r2-00013702.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.263
Max value = 28.247
Mon Feb 11 20:18:31 2008

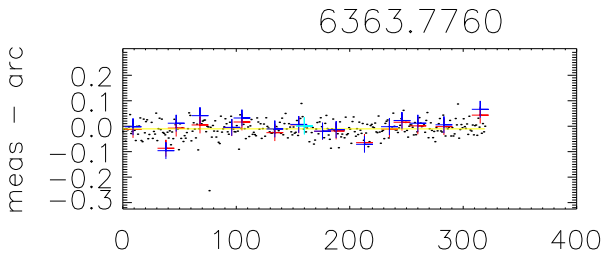

PLATE=0872 MJD=52339 Scattered Light on sdR-r2-00013702.fit
9.1
9.1
9.1

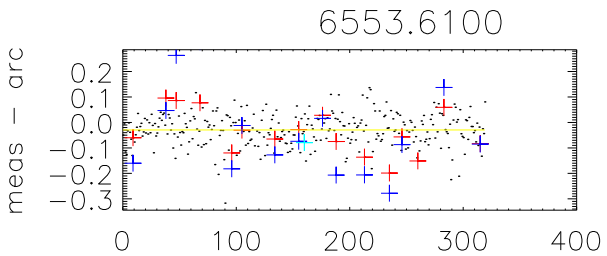

PLATE=0872 MJD=52339 Scattered Light on sdR-r2-00013702.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 7.489
Max value = 12.277
Mon Feb 11 20:20:37 2008

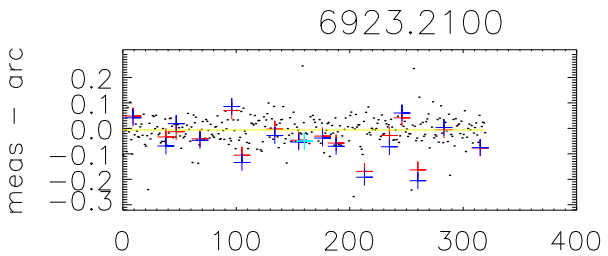

PLATE=0872 MJD=52339 Extraction chi^2 for sdR-r2-00013702.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

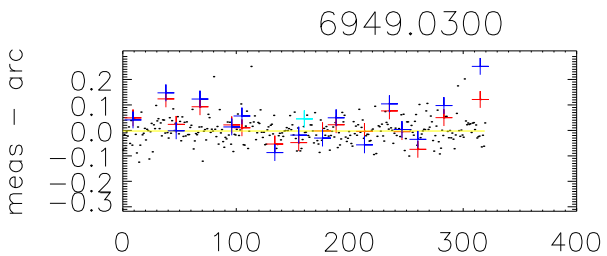

6300.3040
off: 0.01
sig: 0.004
6363.7760
off: 0.00
sig: 0.009
6553.6100
off: -0.08
sig: 0.042
6923.2100
off: -0.05
sig: 0.023
6949.0300
off: 0.05
sig: 0.020
7571.7500
off: -0.01
sig: 0.021
7794.1200
off: -0.12
sig: 0.009
7821.5100
off: -0.08
sig: 0.008
8399.1600
off: -0.03
sig: 0.008
8430.1700
off: -0.04
sig: 0.007
8885.8300
off: -0.01
sig: 0.008
8919.6100
off: -0.09
sig: 0.007

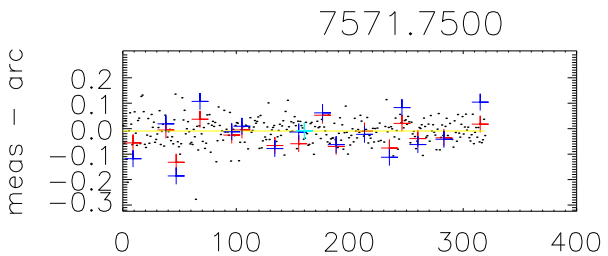

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

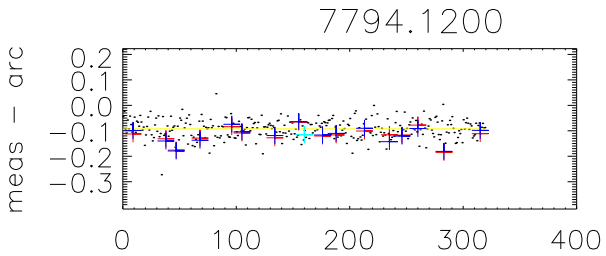

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

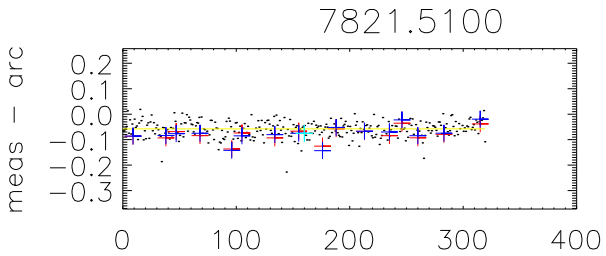

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

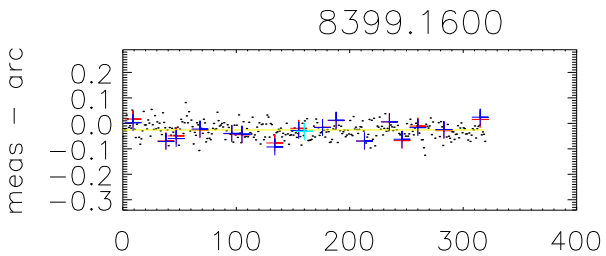

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

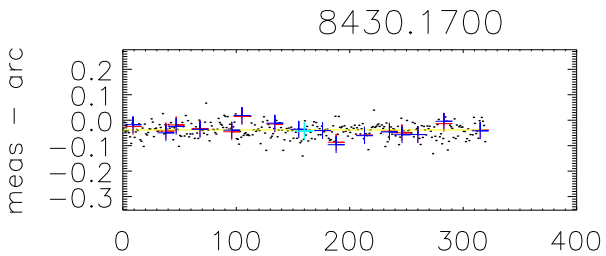

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

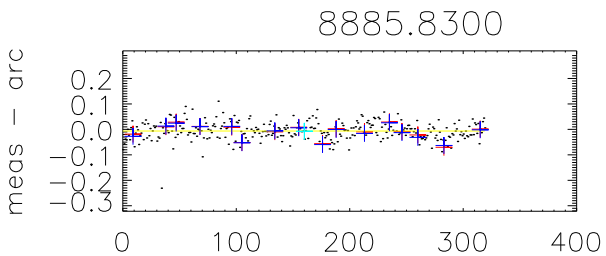

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

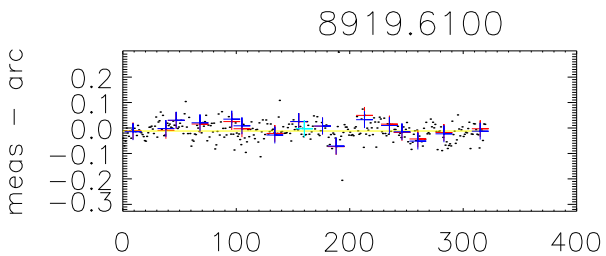

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

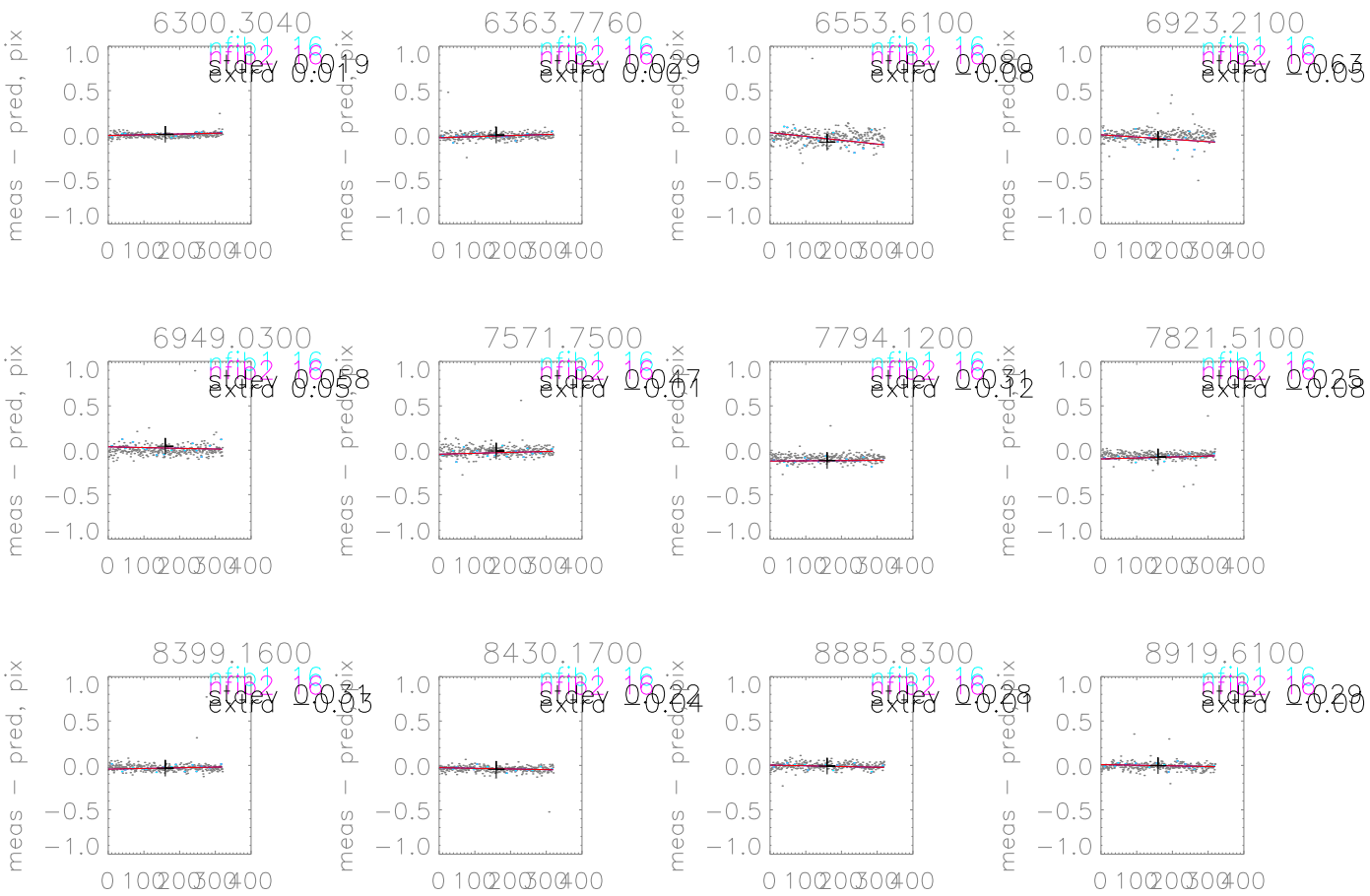

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

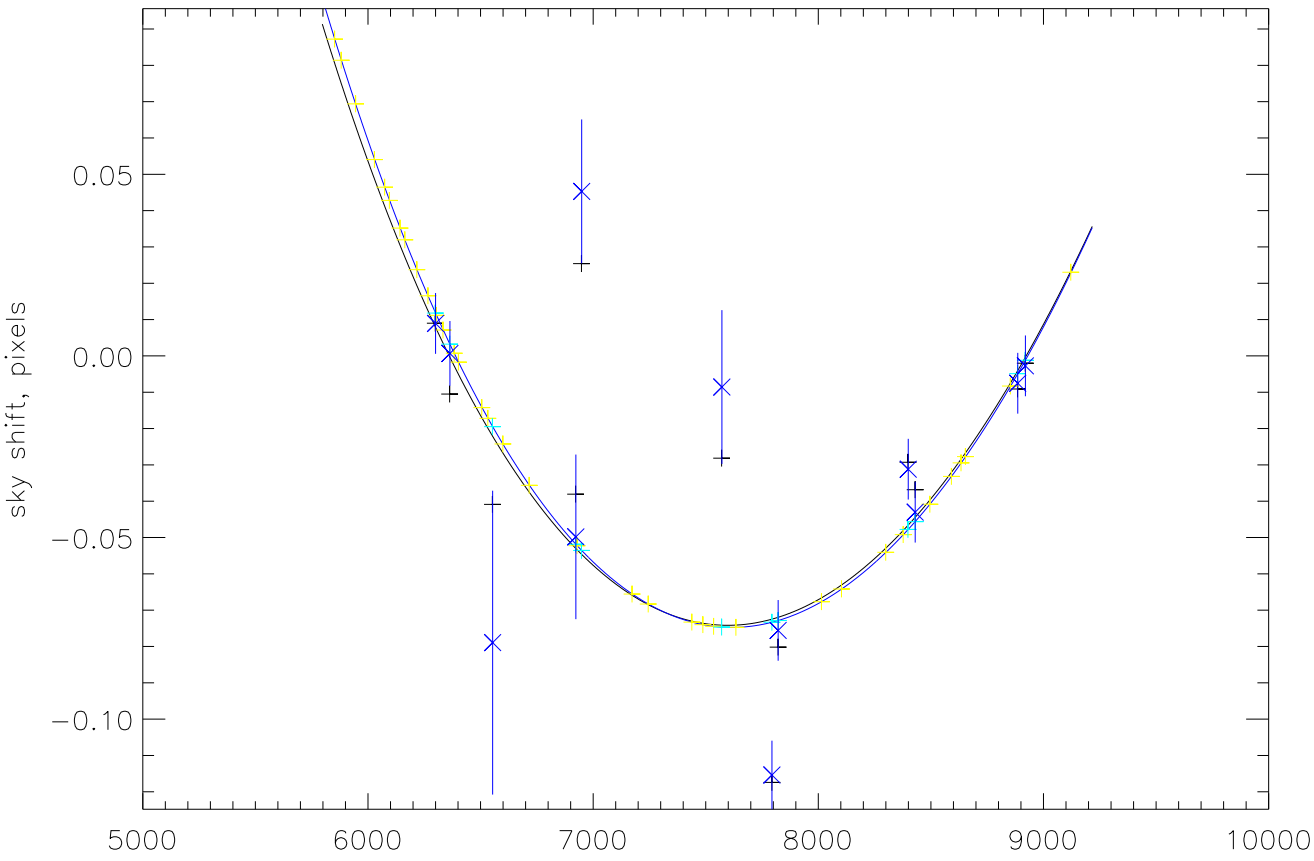

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

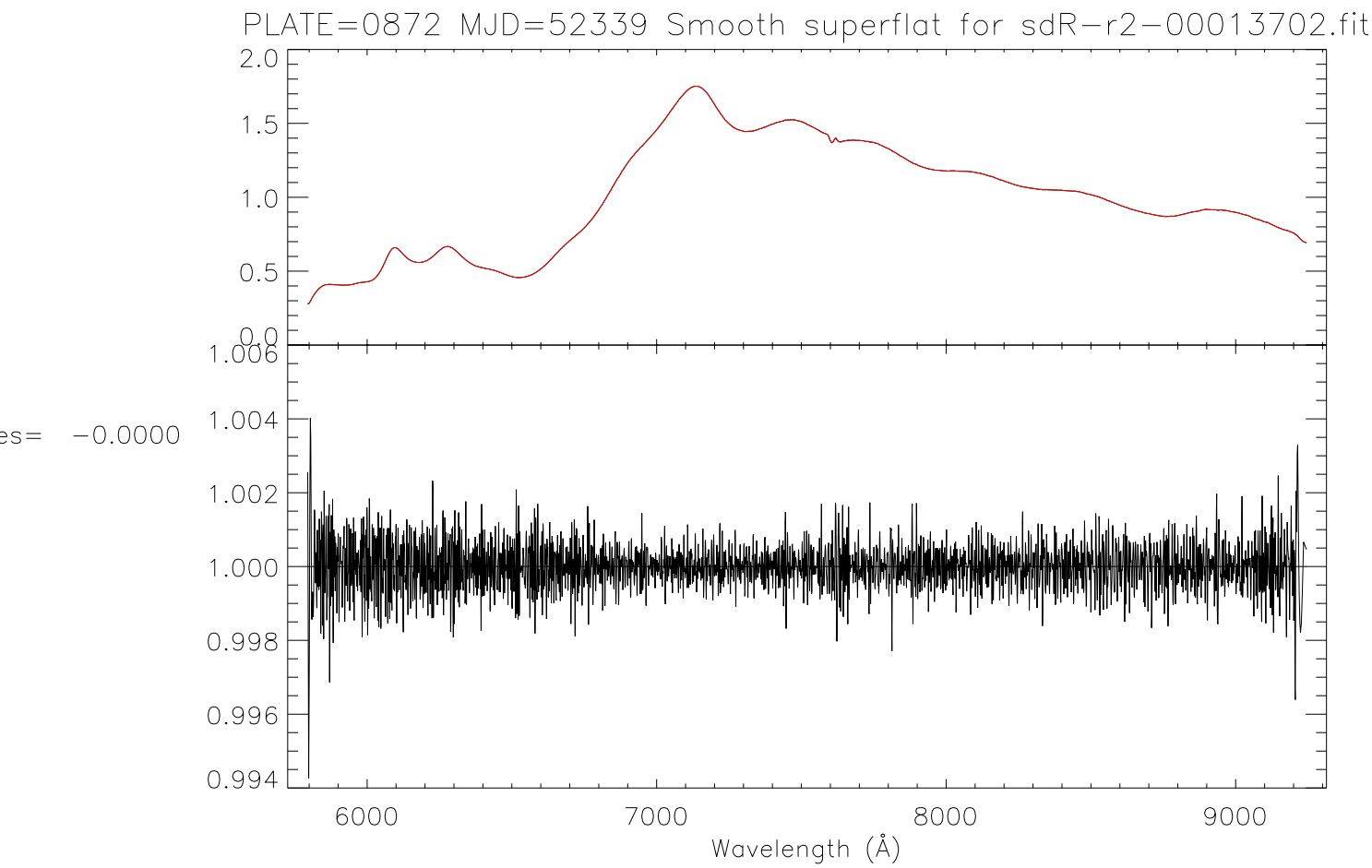

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

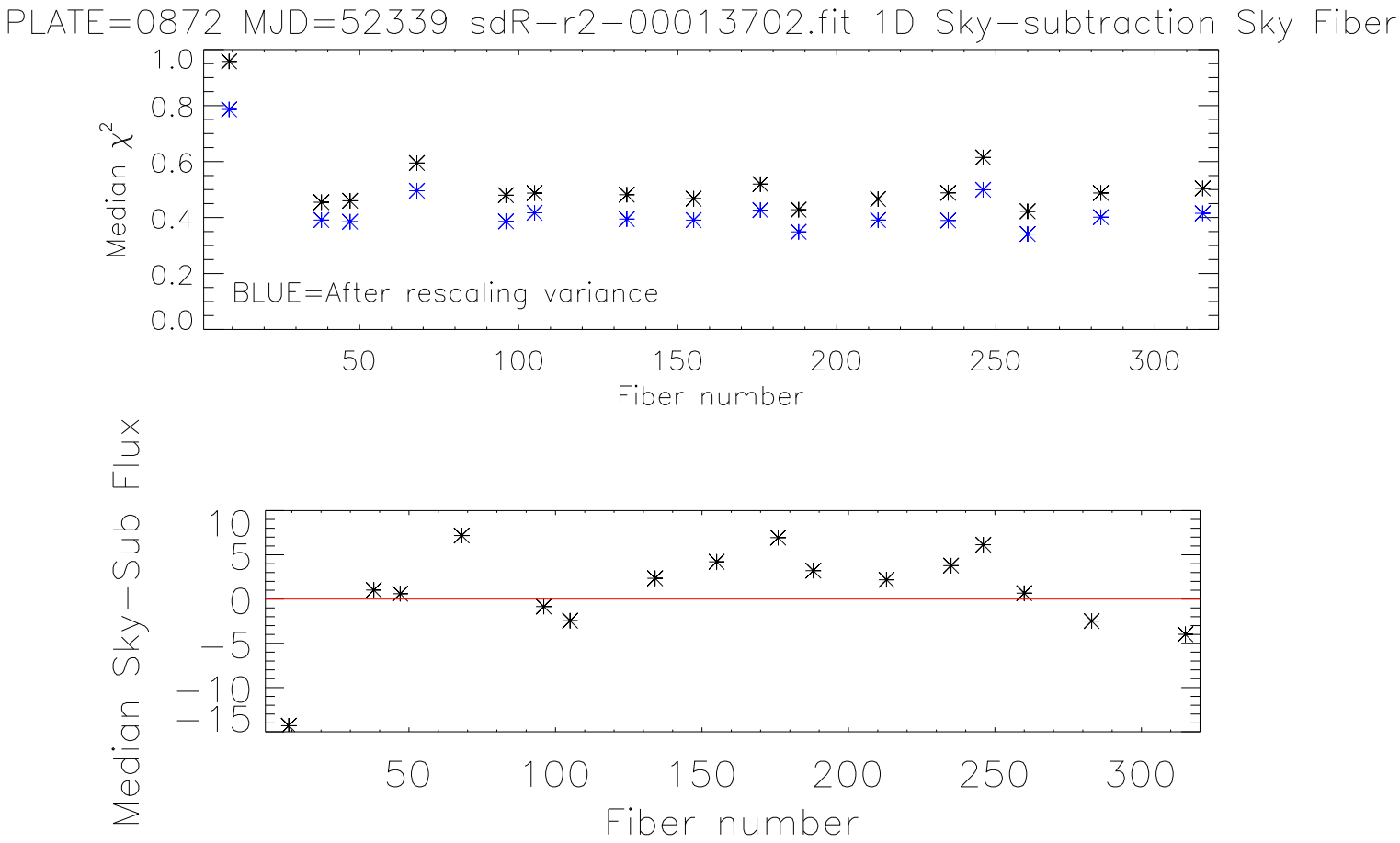

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

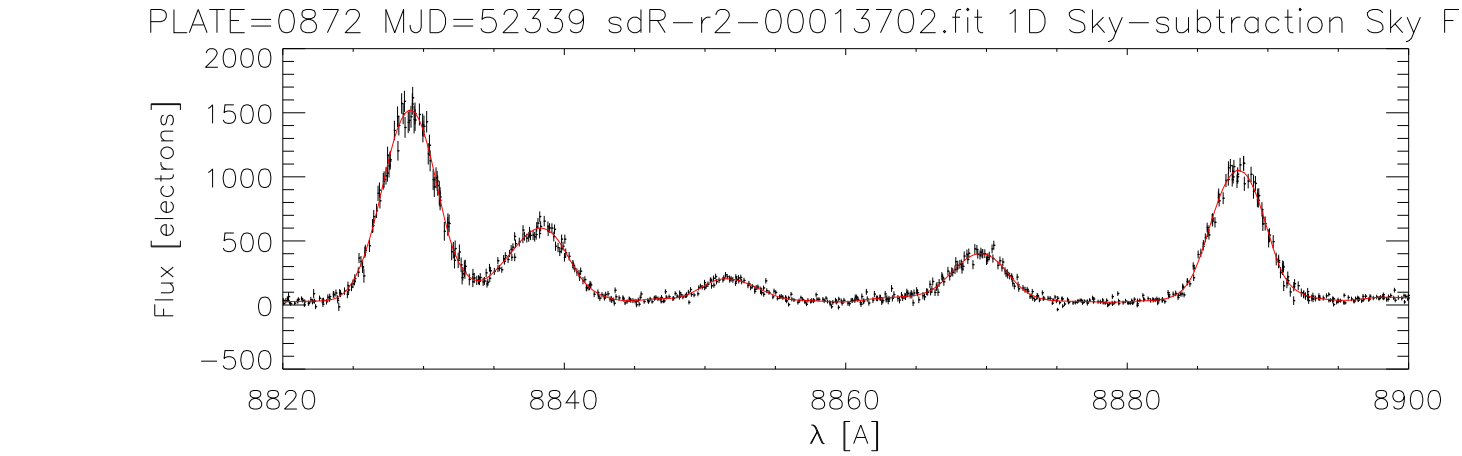

6300.3040
stdev 0.019
extra 0.01
6363.7760
stdev 0.029
extra 0.06
6553.6100
stdev 0.080
extra −0.08
6923.2100
stdev 0.063
extra −0.05
6949.0300
stdev 0.058
extra 0.05
7571.7500
stdev 0.047
extra −0.01
7794.1200
stdev 0.031
extra −0.12
7821.5100
stdev 0.025
extra −0.08
8399.1600
stdev 0.031
extra −0.03
8430.1700
stdev 0.022
extra −0.04
8885.8300
stdev 0.028
extra −0.01
8919.6100
stdev 0.029
extra −0.00
meas − pred, pix
mfhd2 16

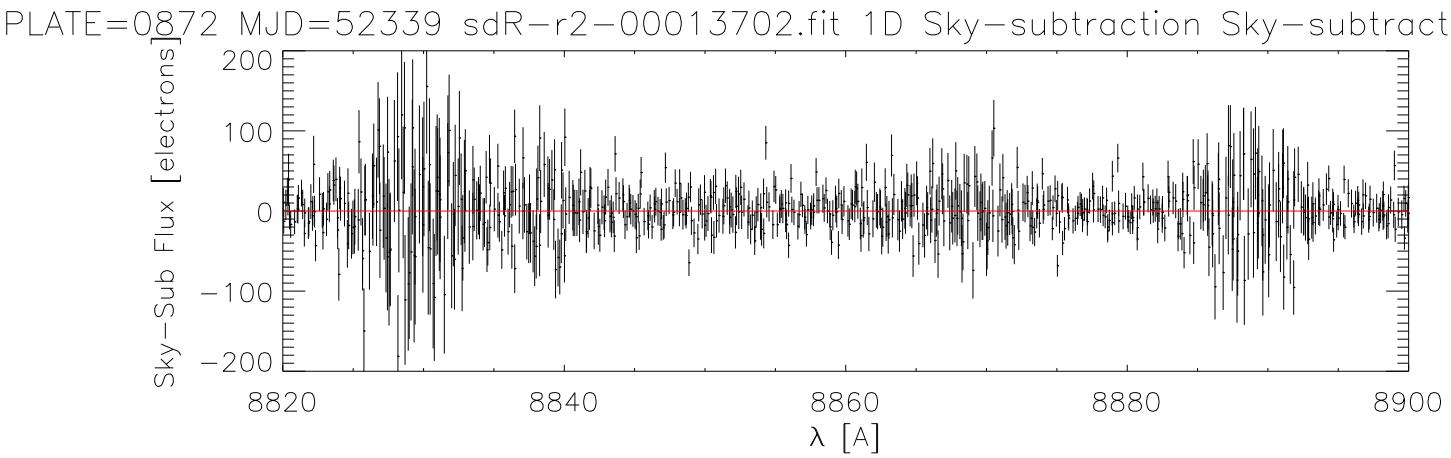

sky shift, pixels
0.05
0.00
−0.05
−0.10
5000
6000
7000
8000
9000
10000

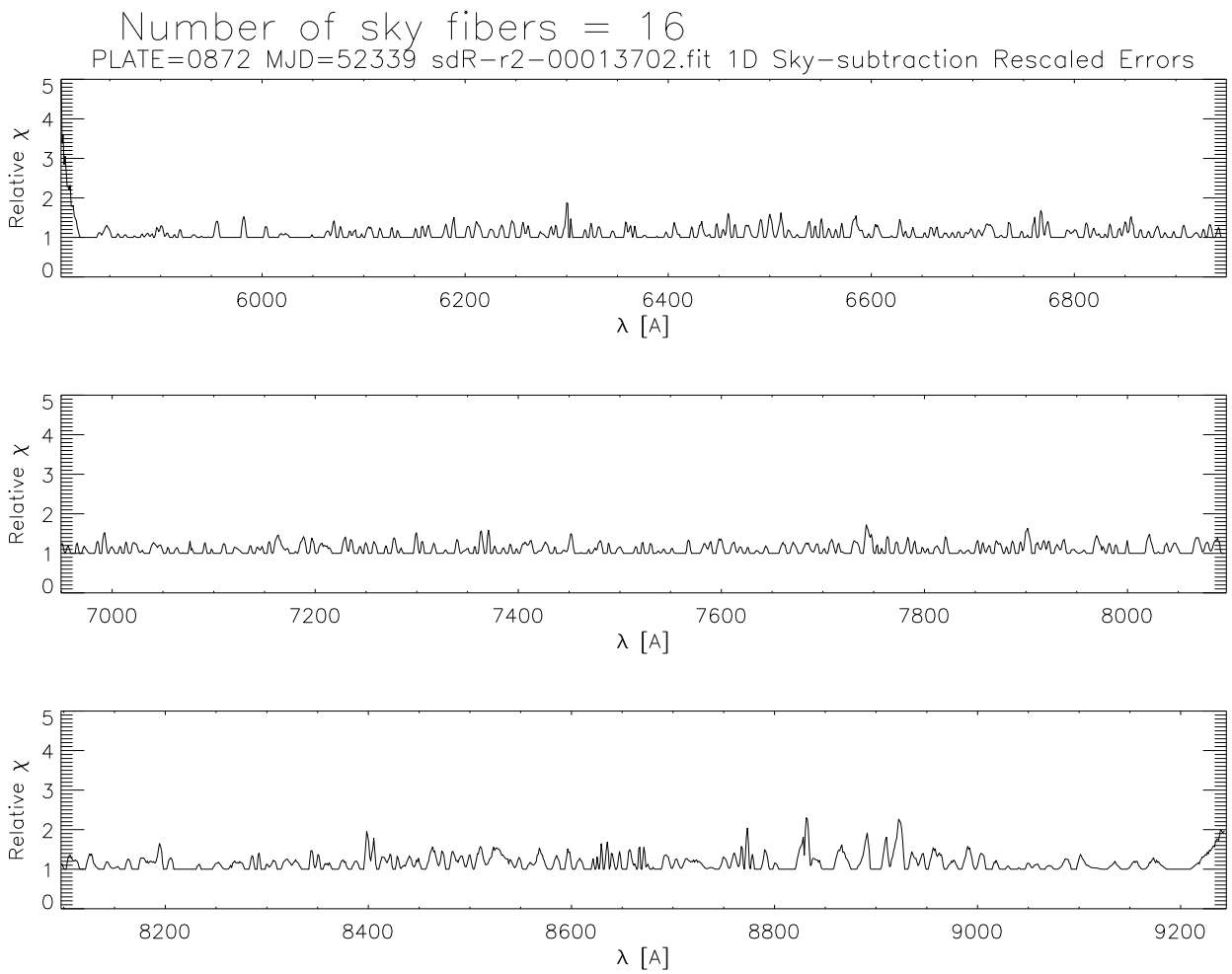

PLATE=0872 MJD=52339 Smooth superflat for sdR-r2-00013702.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

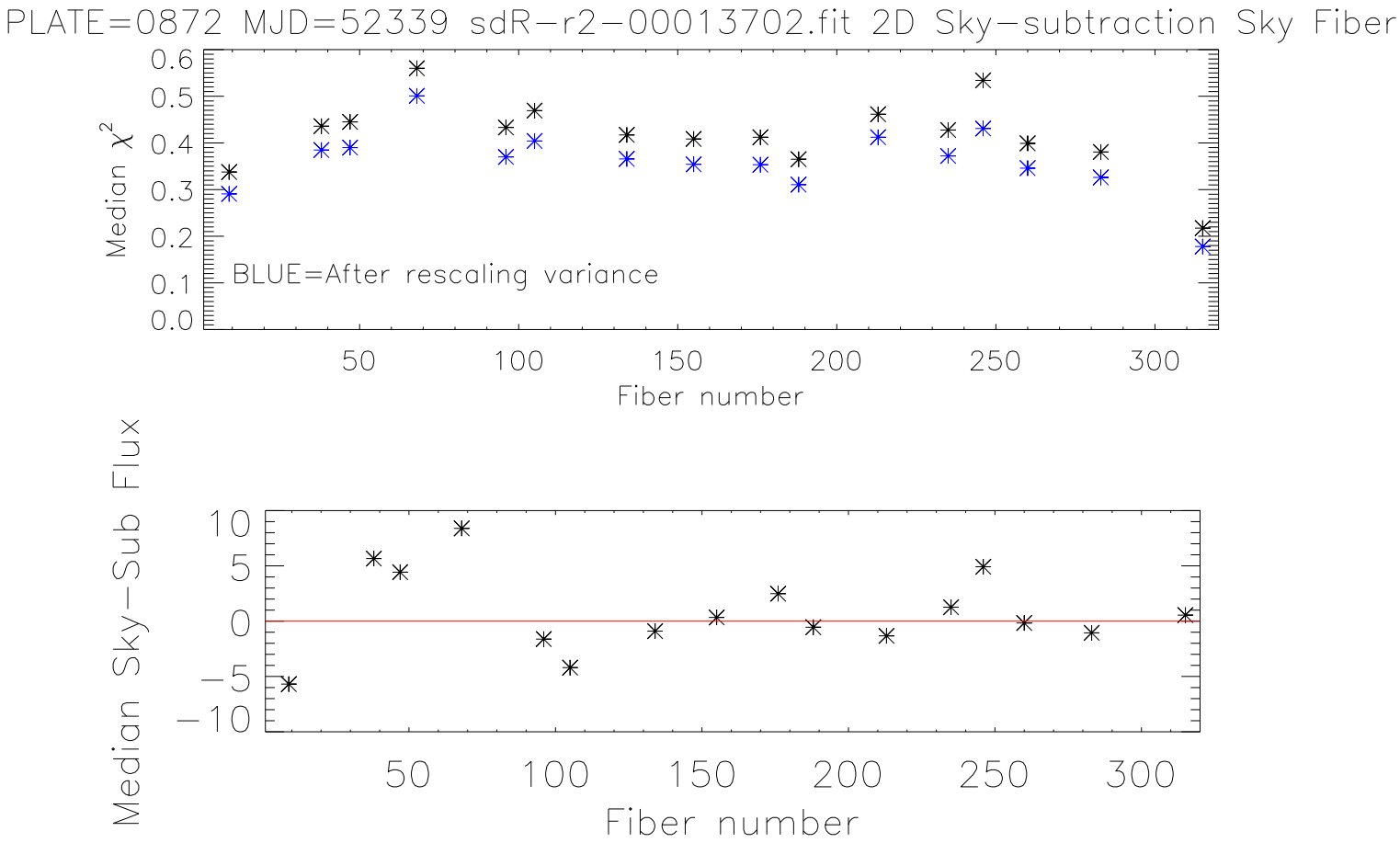
es= −0.0000

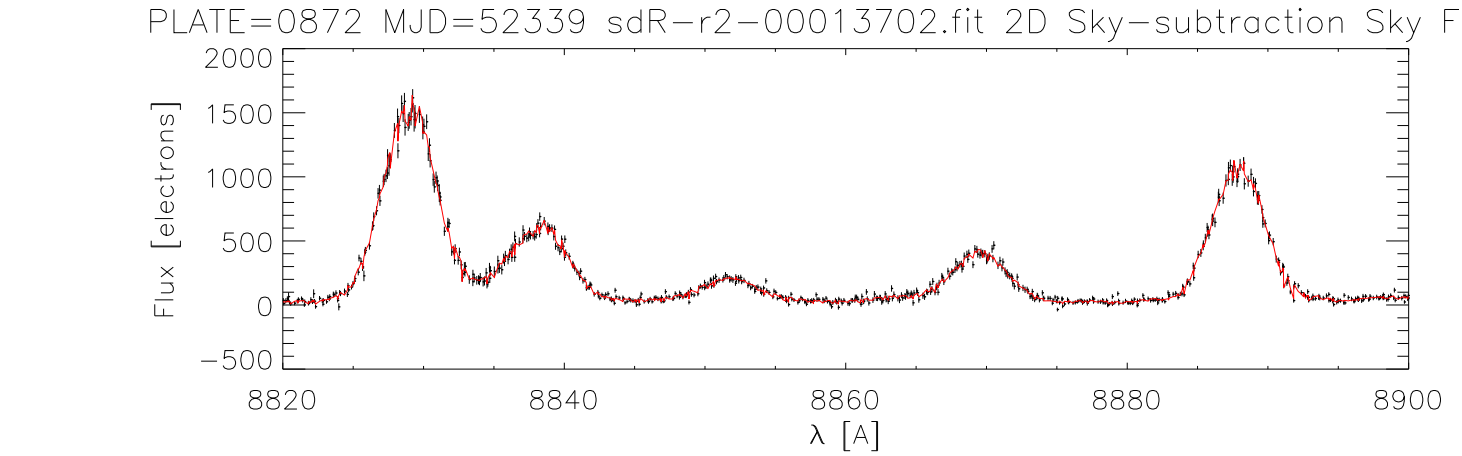

PLATE=0872 MJD=52339 sdR-r2-00013702.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

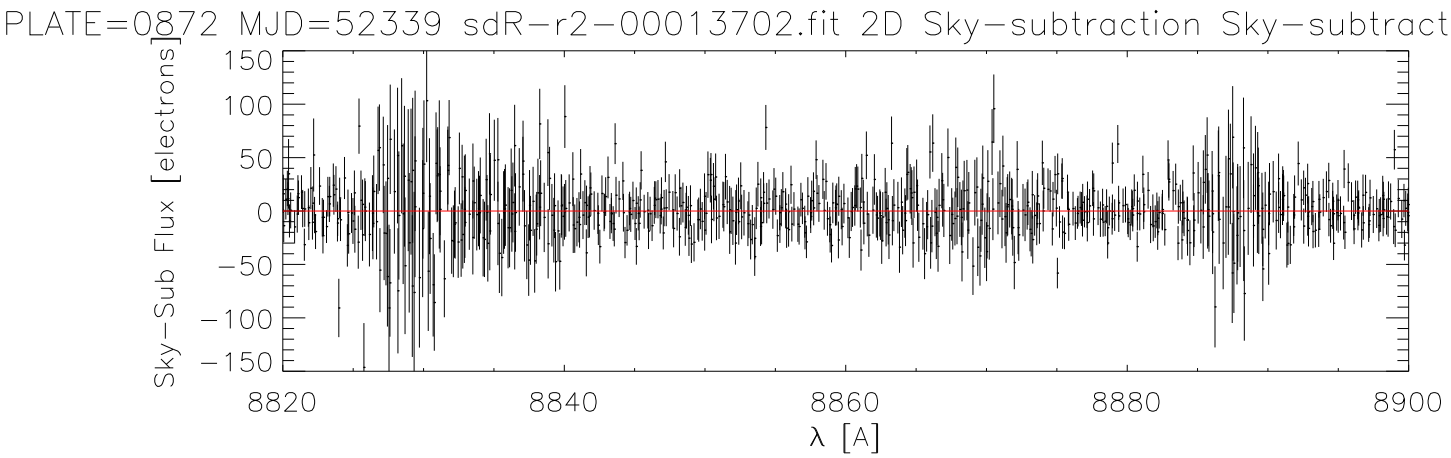

PLATE=0872 MJD=52339 sdR-r2-00013702.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

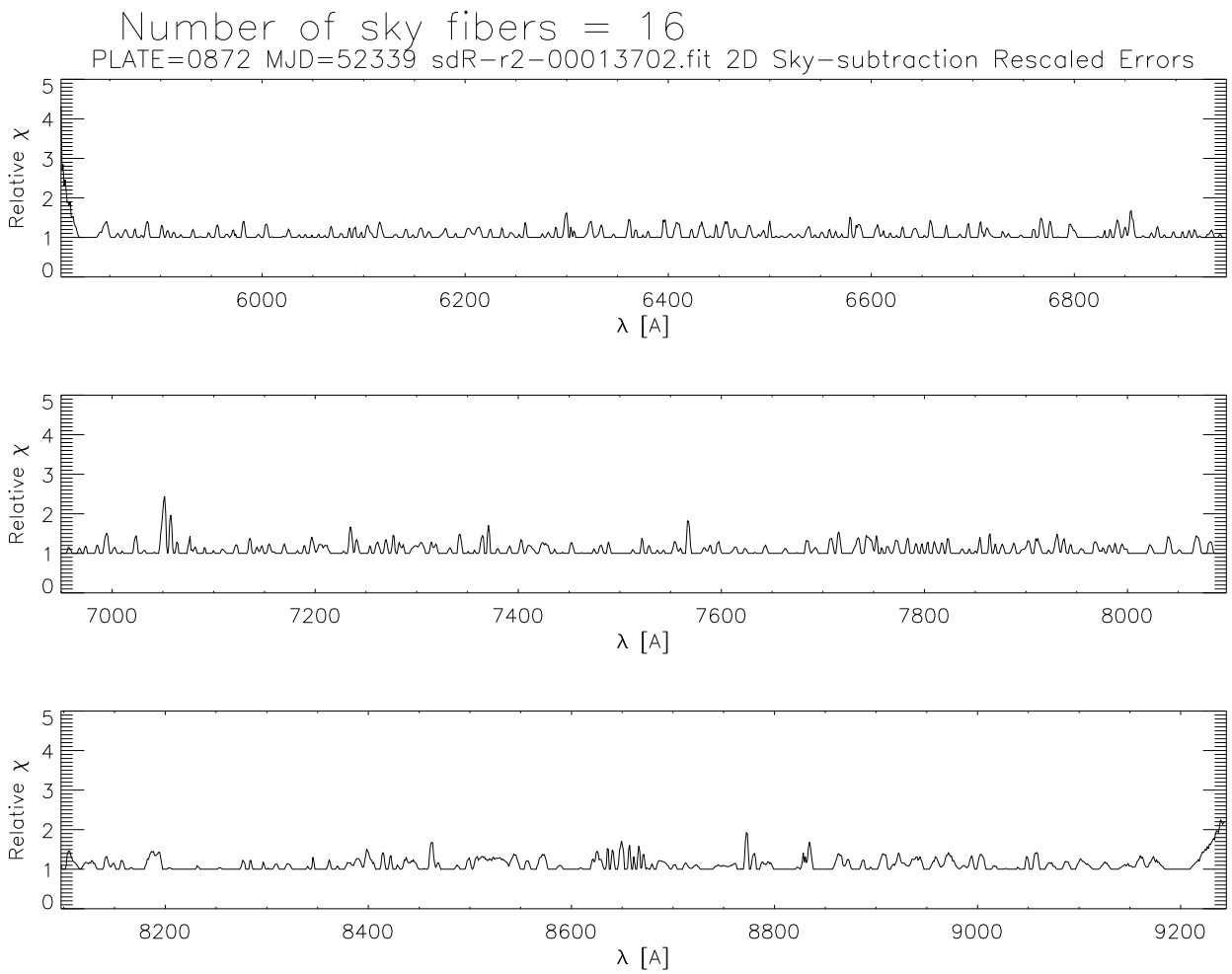

PLATE=0872 MJD=52339 sdR-r2-00013702.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

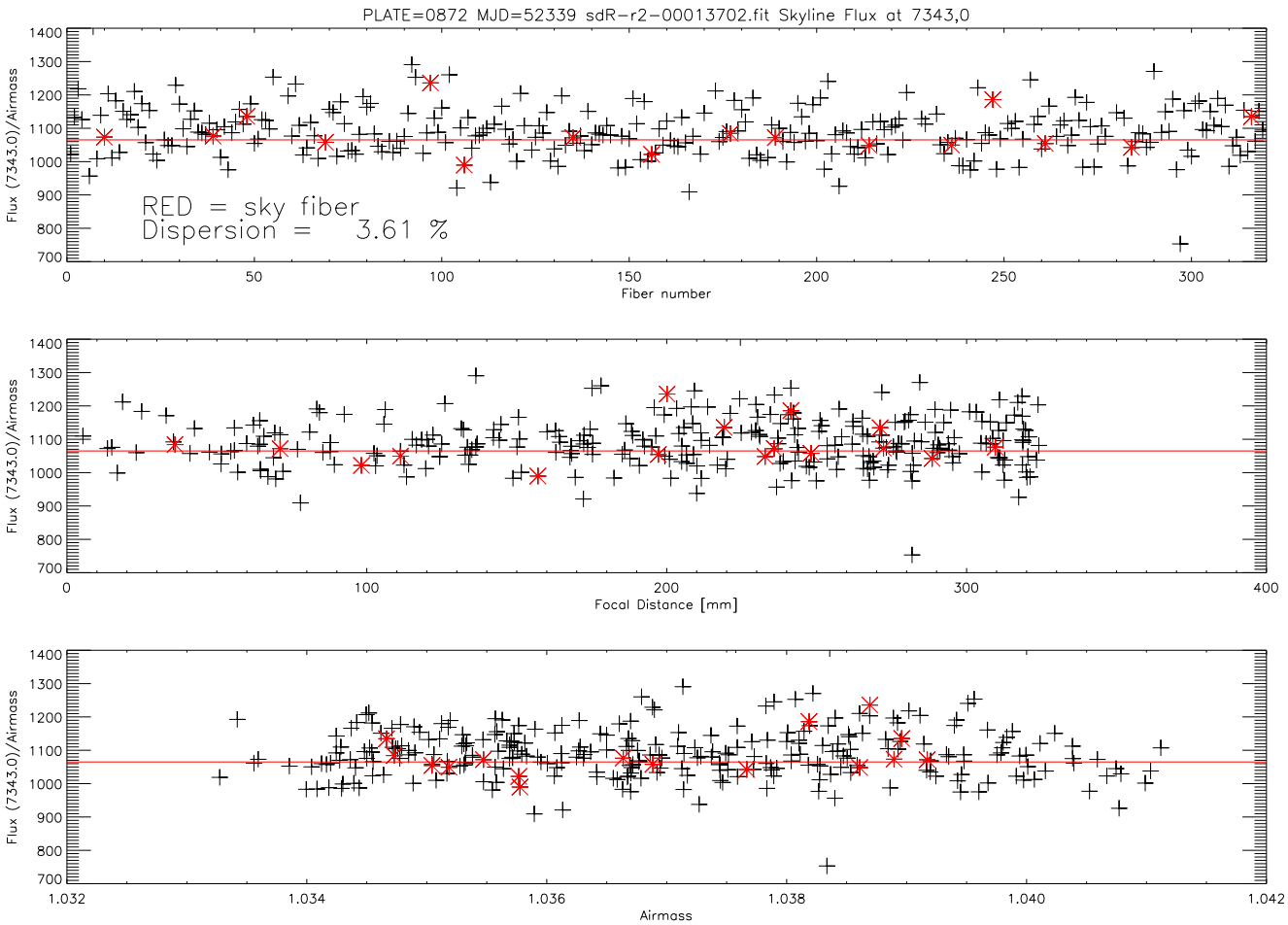

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r2-00013702.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

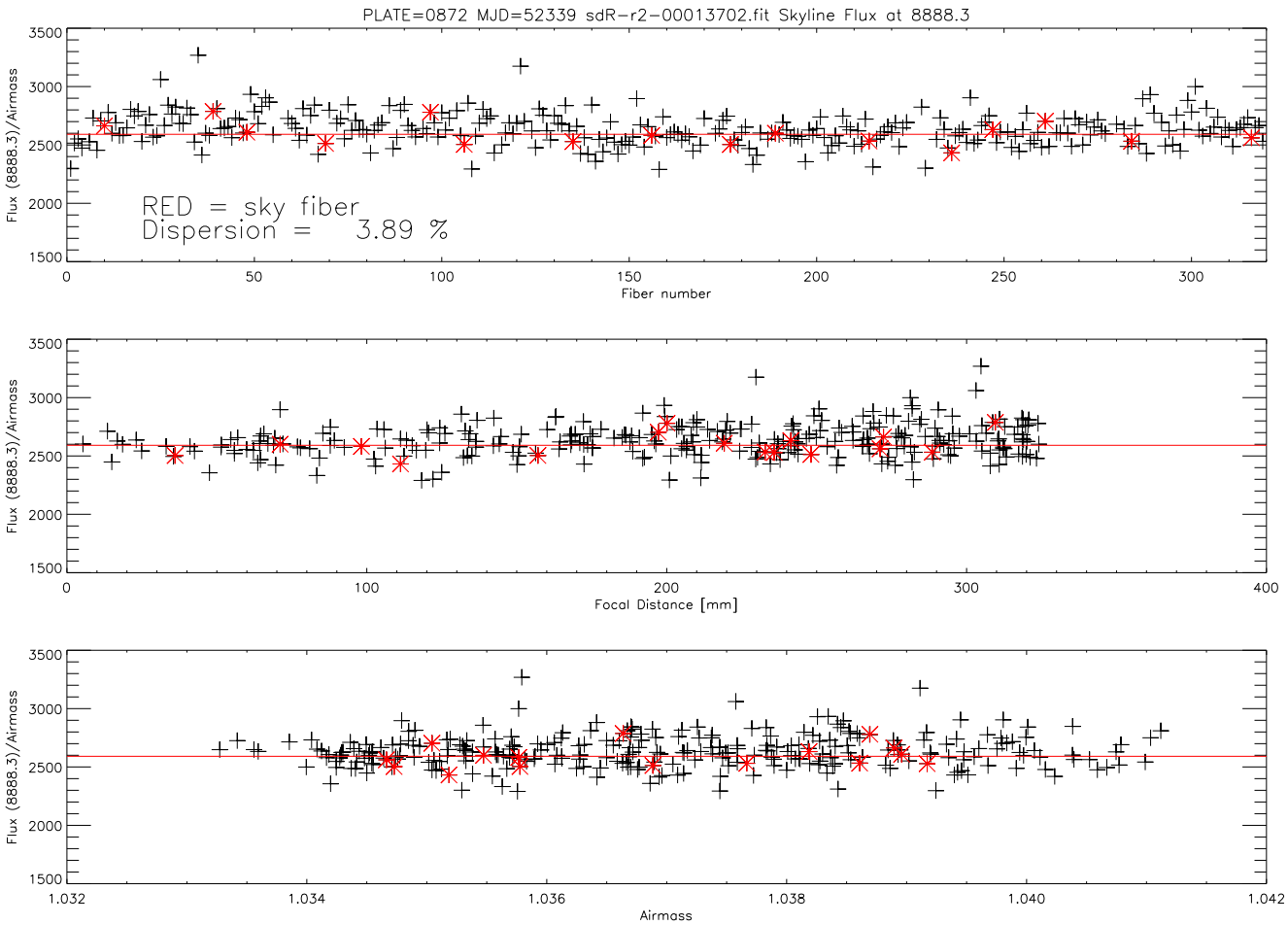

PLATE=0872 MJD=52339 sdR-r2-00013702.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

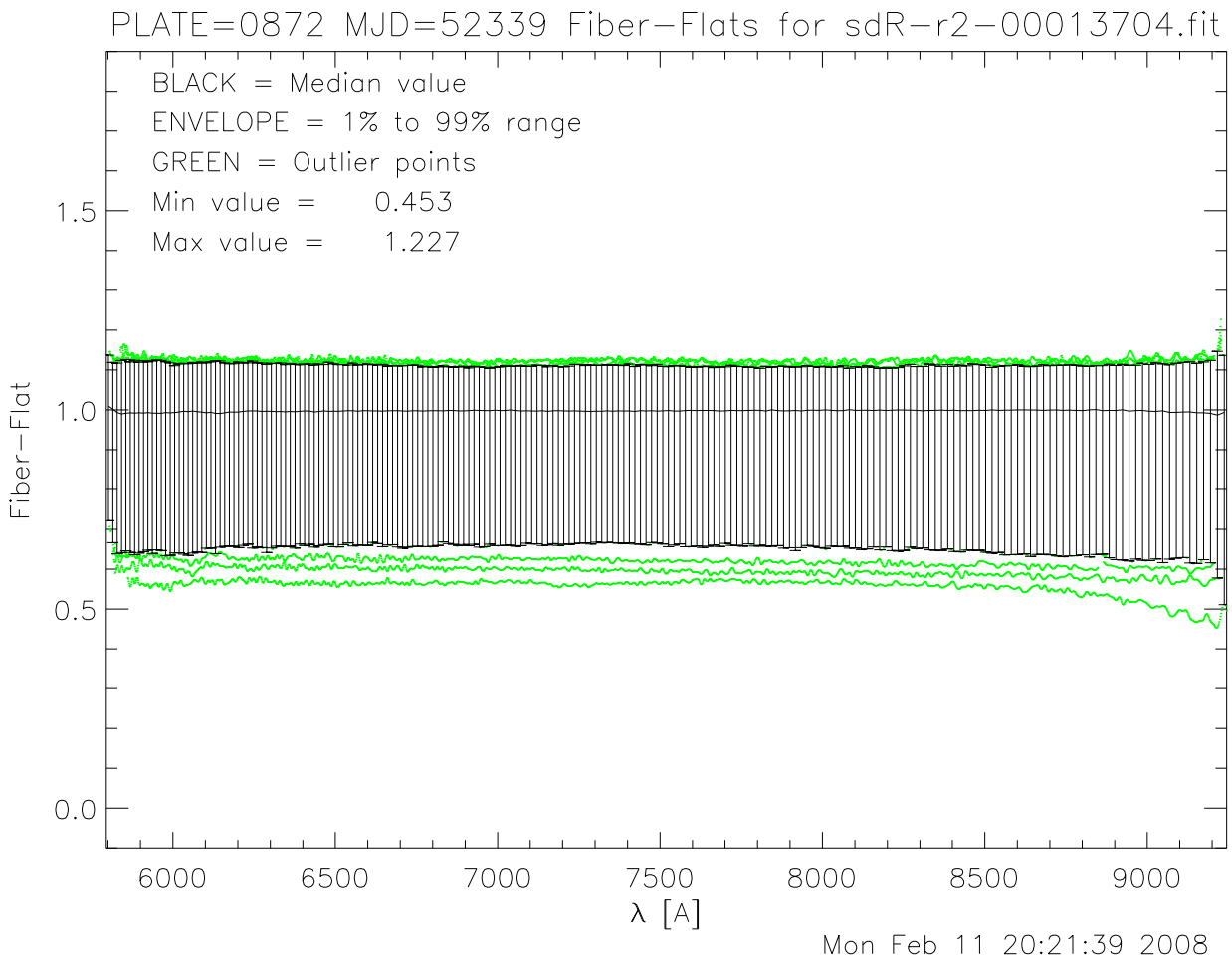

PLATE=0872 MJD=52339 sdR-r2-00013702.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

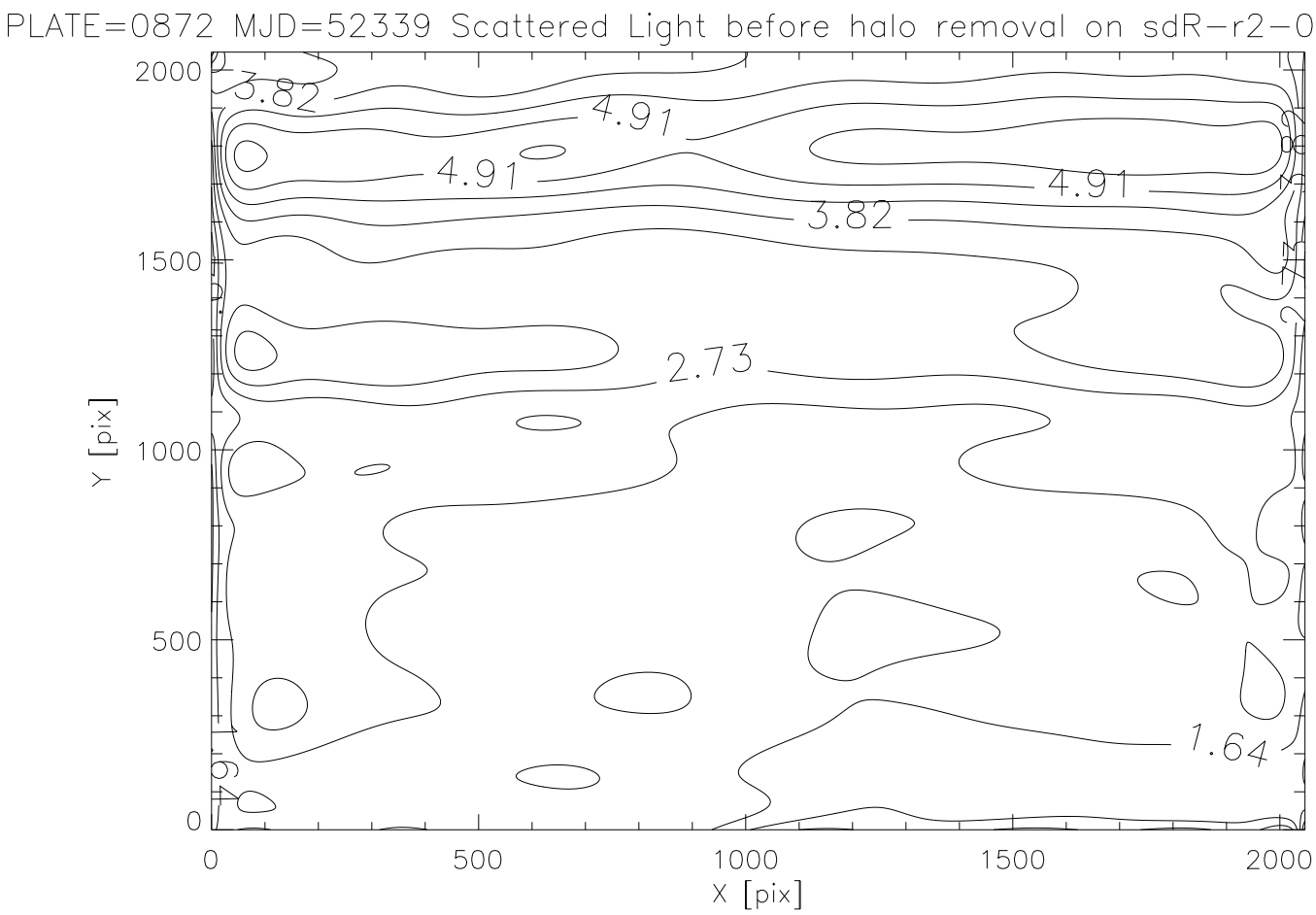

PLATE=0872 MJD=52339 sdR-r2-00013702.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

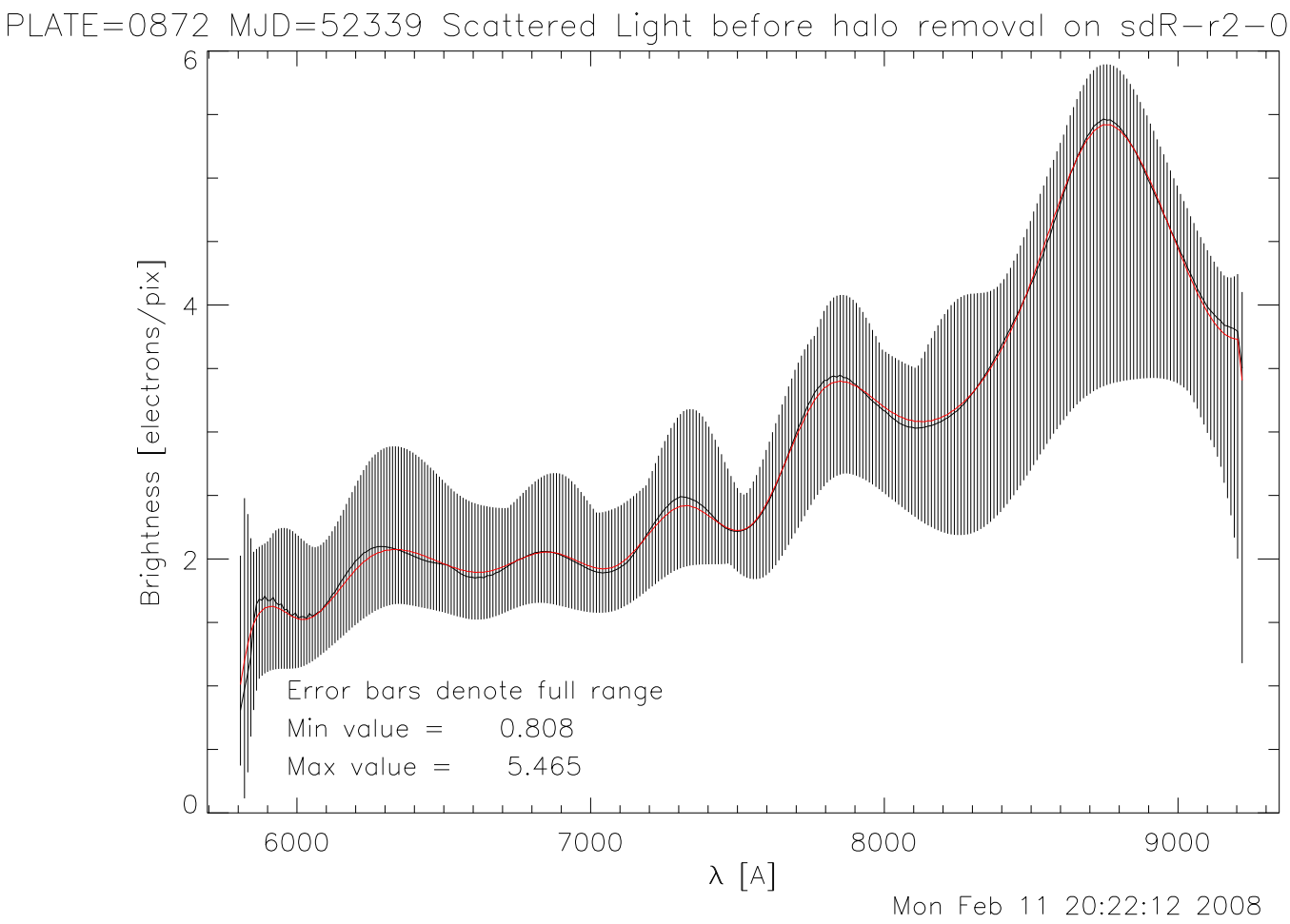

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r2-00013702.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

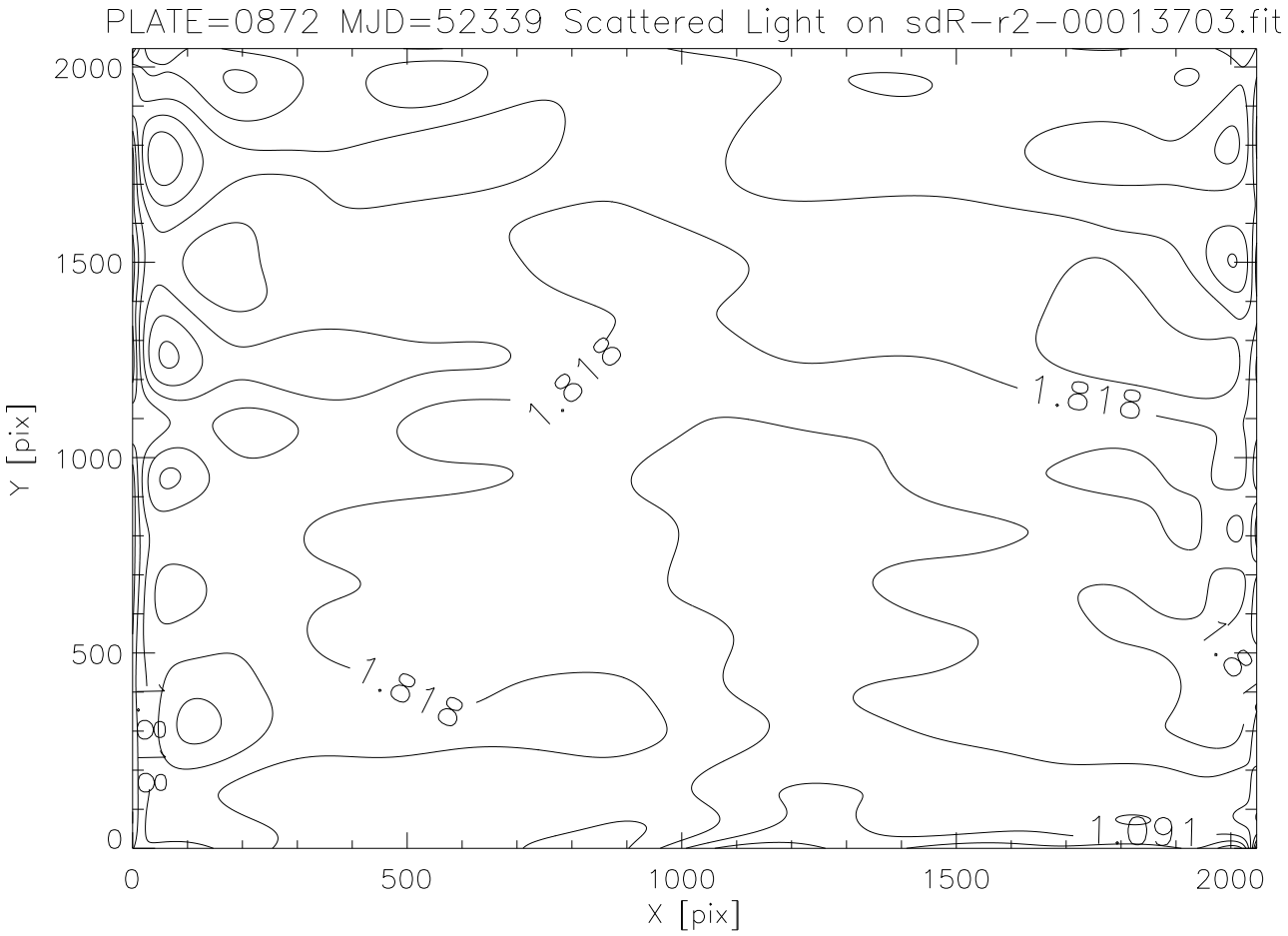

PLATE=0872 MJD=52339 sdR-r2-00013702.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.61 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

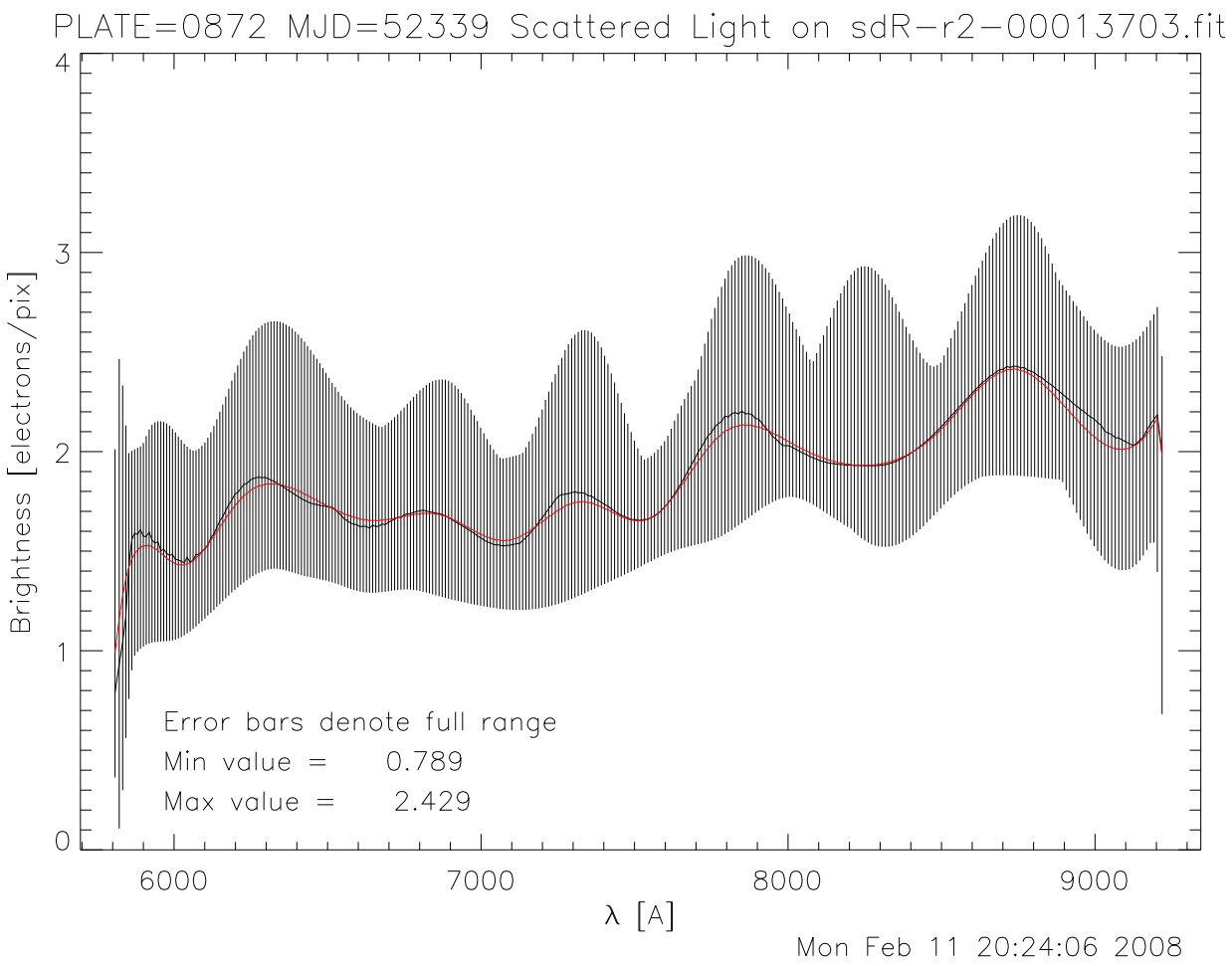

PLATE=0872 MJD=52339 sdR-r2-00013702.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.89 %
Fiber number
Focal Distance [mm]
Airmass

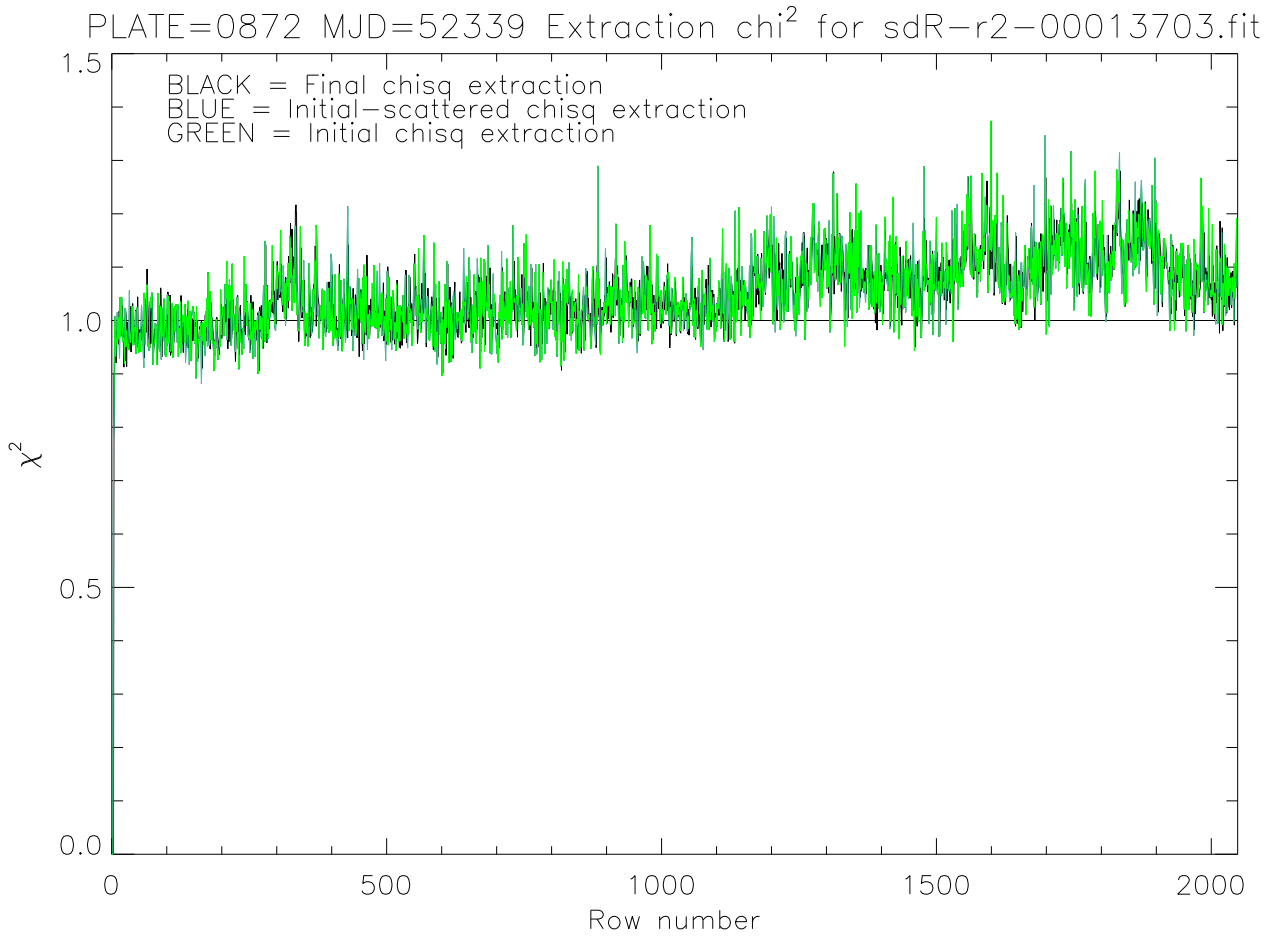

PLATE=0872 MJD=52339 Fiber−Flats for sdR−r2−00013704.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.453
Max value = 1.227
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 20:21:39 2008

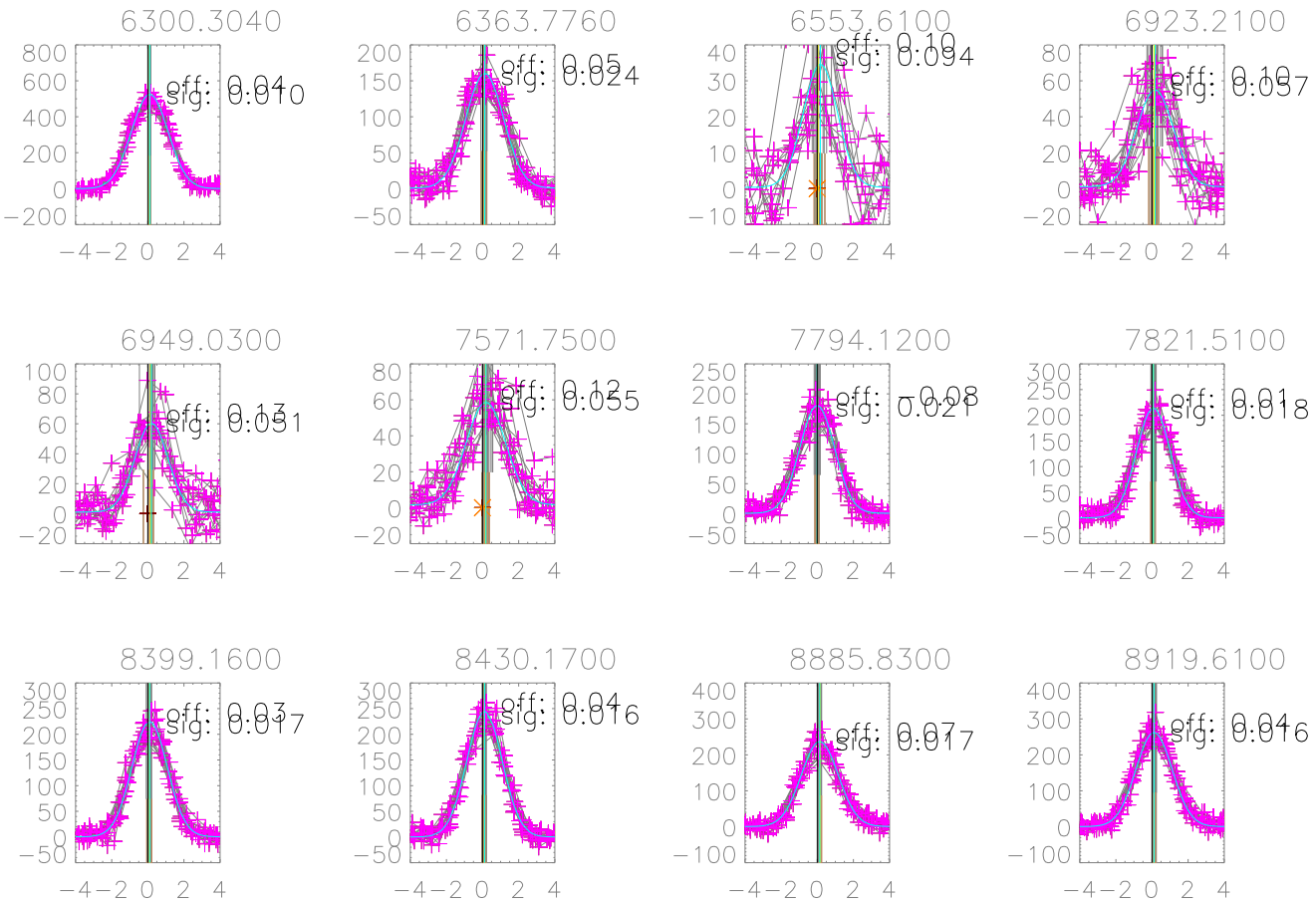

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r2-00013703.fi
3.82
4.91
4.91
4.91
3.82
2.73
1.64
Y [pix]
X [pix]
0
500
1000
1500
2000

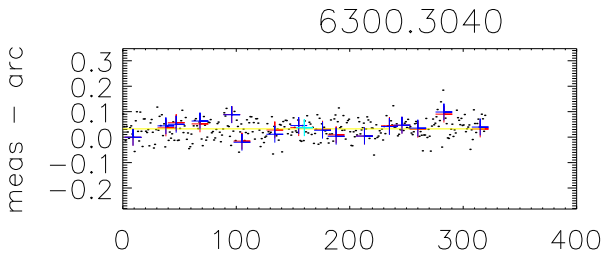

PLATE=0872 MJD=52339 Scattered Light before halo removal on sdR-r2-00013703.fi
Brightness [electrons/pix]
0
2
4
6
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 0.808
Max value = 5.465
Mon Feb 11 20:22:12 2008

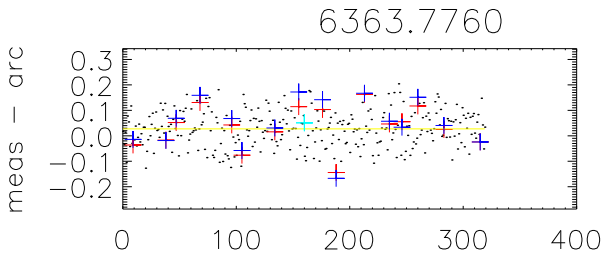

PLATE=0872 MJD=52339 Scattered Light on sdR-r2-00013703.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.818
1.818
1.818
1.818
1.091

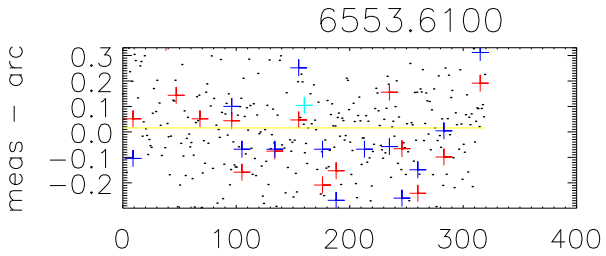

PLATE=0872 MJD=52339 Scattered Light on sdR-r2-00013703.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.789
Max value = 2.429
Mon Feb 11 20:24:06 2008

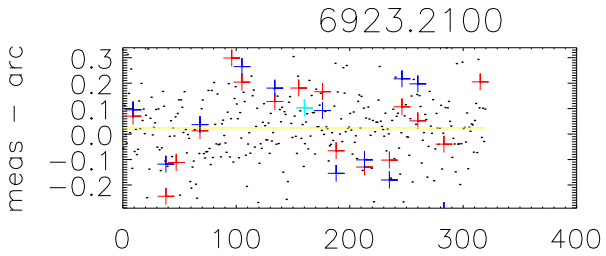

PLATE=0872 MJD=52339 Extraction chi^2 for sdR−r2−00013703.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
1.5
1.0
0.5
0.0
χ^2
0
500
1000
1500
2000
Row number

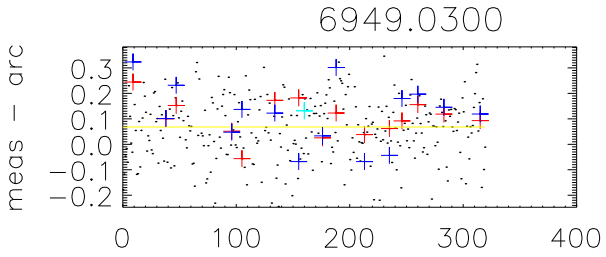

6300.3040
off: 0.04
sig: 0.010
6363.7760
off: 0.05
sig: 0.024
6553.6100
off: 0.10
sig: 0.094
6923.2100
off: 0.10
sig: 0.057
6949.0300
off: 0.13
sig: 0.051
7571.7500
off: 0.12
sig: 0.055
7794.1200
off: -0.08
sig: 0.021
7821.5100
off: 0.01
sig: 0.018
8399.1600
off: 0.03
sig: 0.017
8430.1700
off: 0.04
sig: 0.016
8885.8300
off: 0.07
sig: 0.017
8919.6100
off: 0.04
sig: 0.016

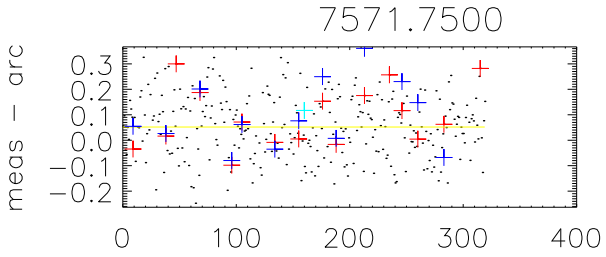

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

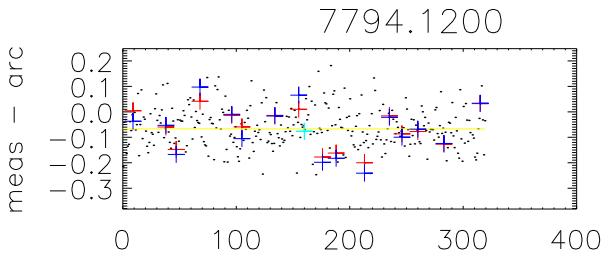

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

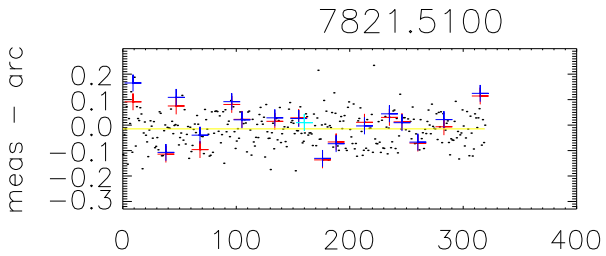

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

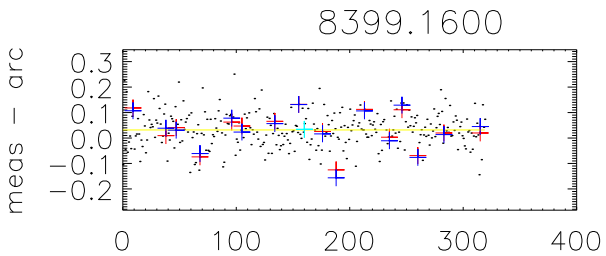

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

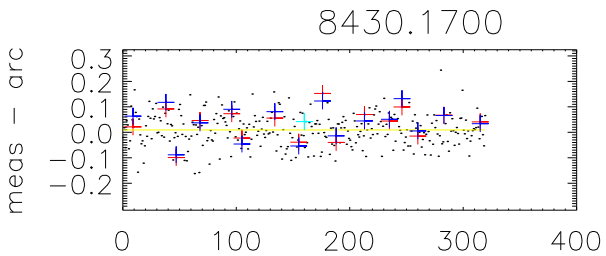

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

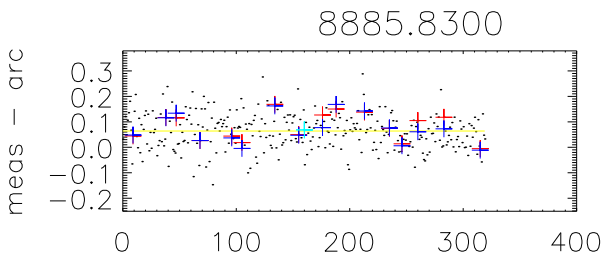

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

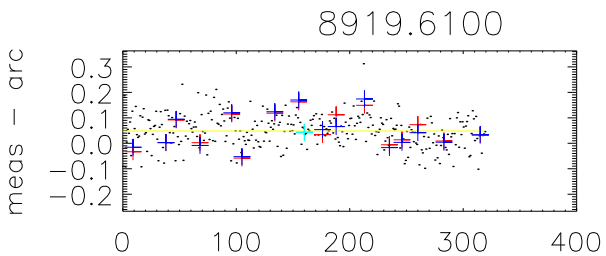

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

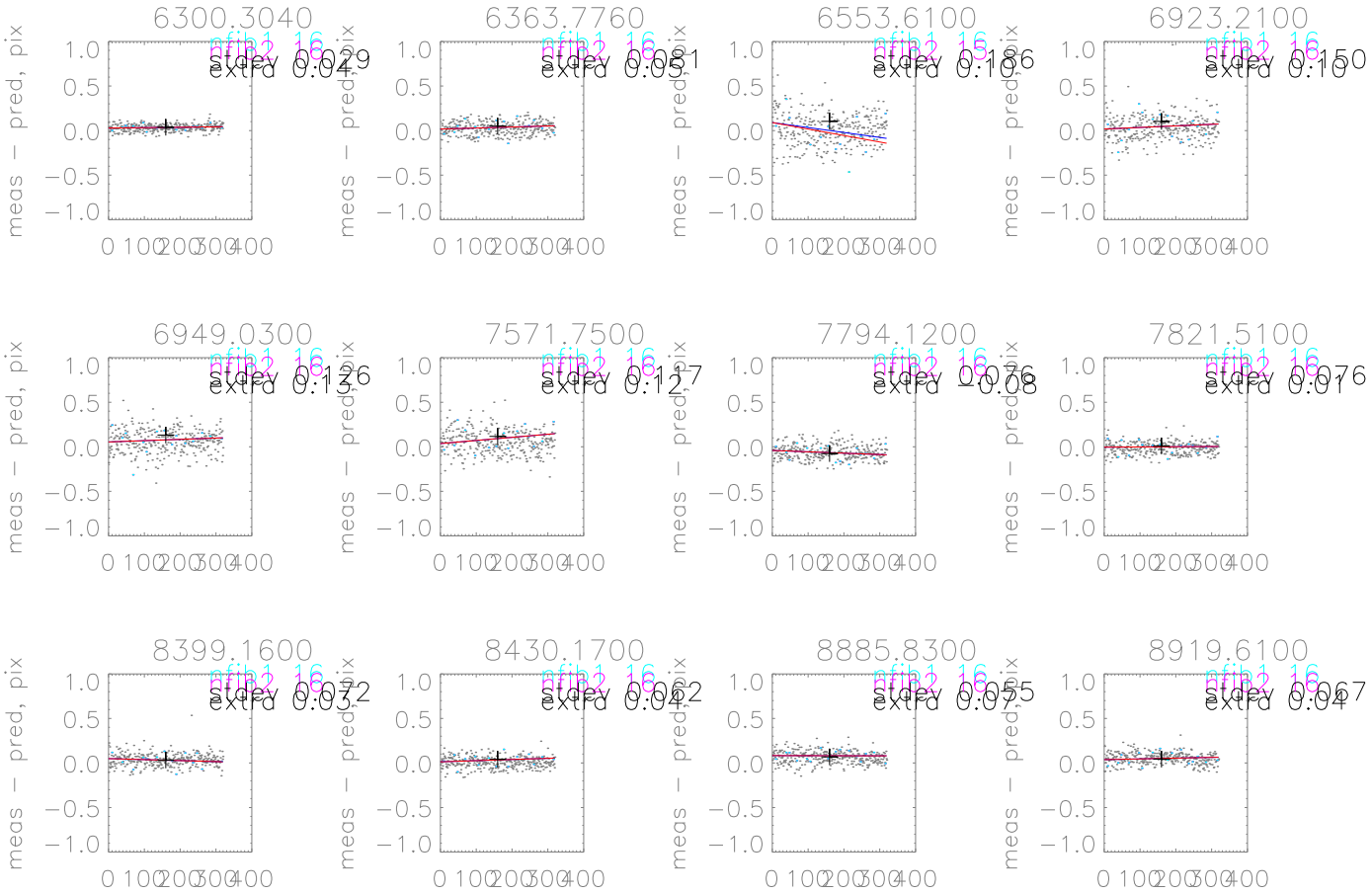

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

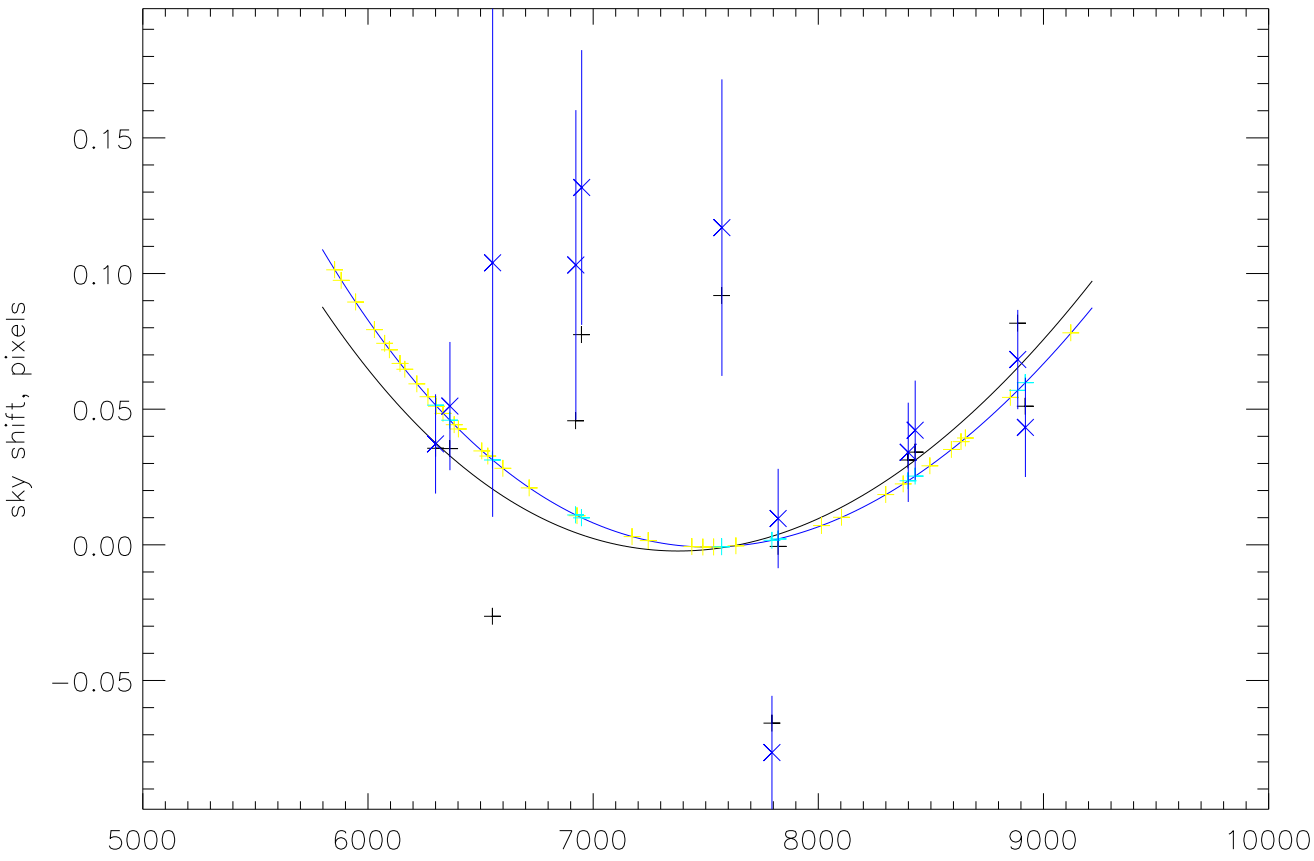

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

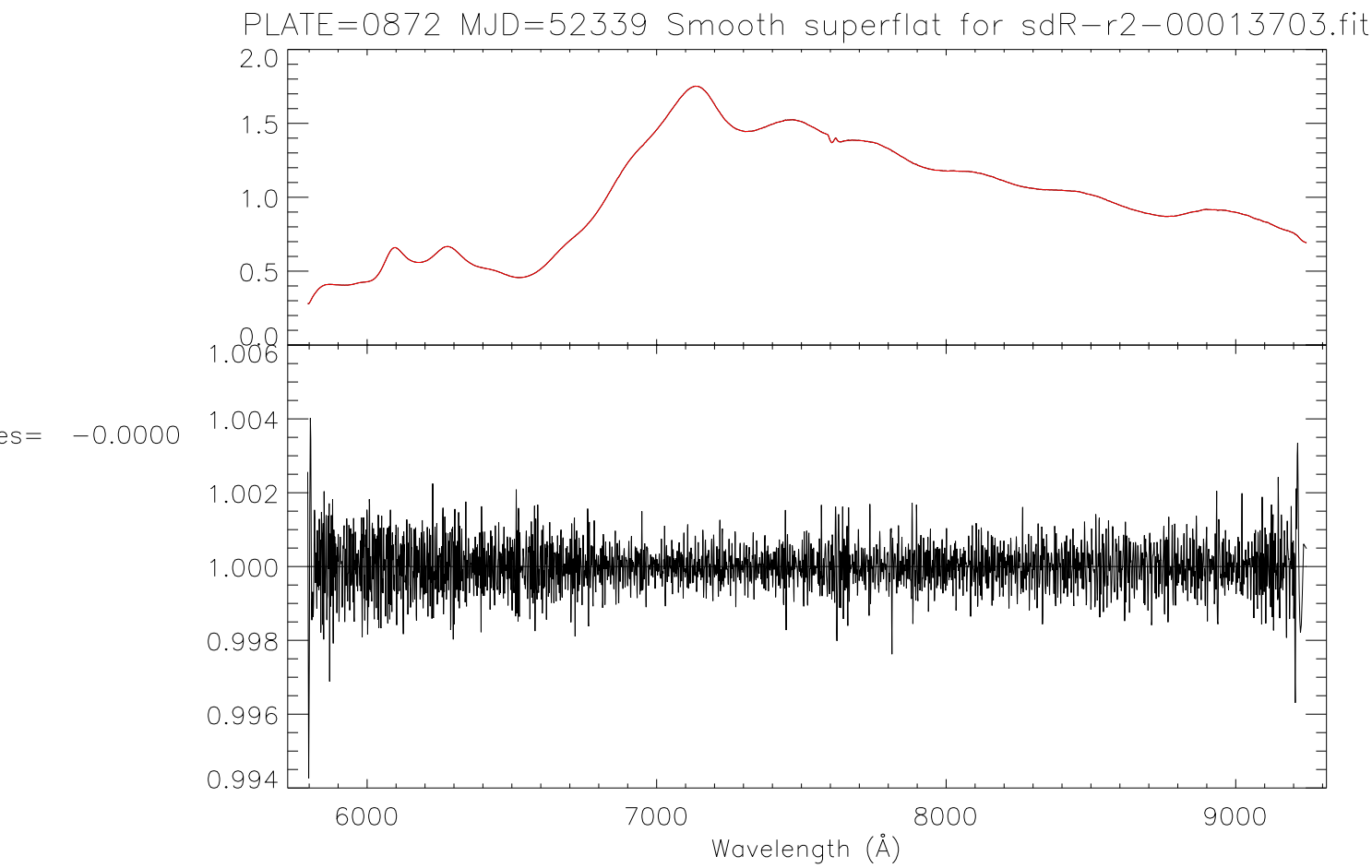

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

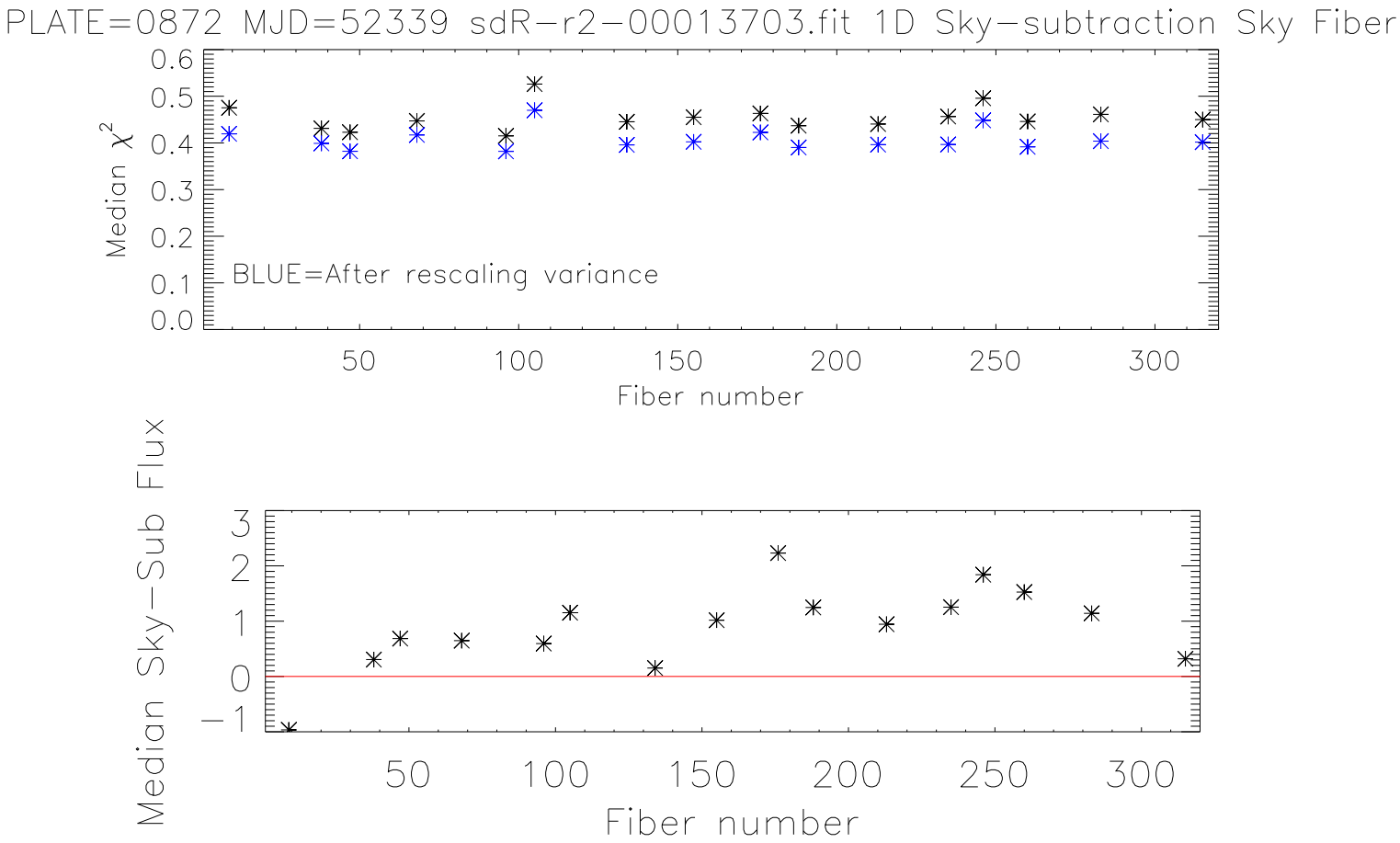

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

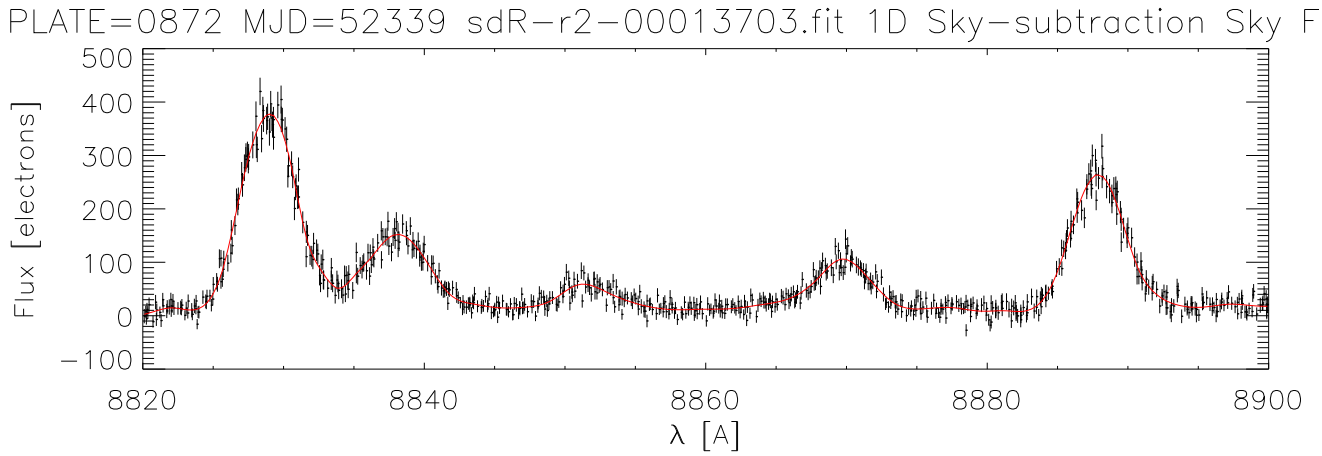

6300.3040
stdev 0.029
extra 0.04
6363.7760
stdev 0.051
extra 0.051
6553.6100
stdev 0.106
extra 0.10
6923.2100
stdev 0.150
extra 0.10
6949.0300
stdev 0.126
extra 0.13
7571.7500
stdev 0.117
extra 0.12
7794.1200
stdev 0.076
extra −0.08
7821.5100
stdev 0.076
extra 0.01
8399.1600
stdev 0.072
extra 0.03
8430.1700
stdev 0.062
extra 0.04
8885.8300
stdev 0.055
extra 0.07
8919.6100
stdev 0.067
extra 0.04
meas − pred, pix
mfb32 16

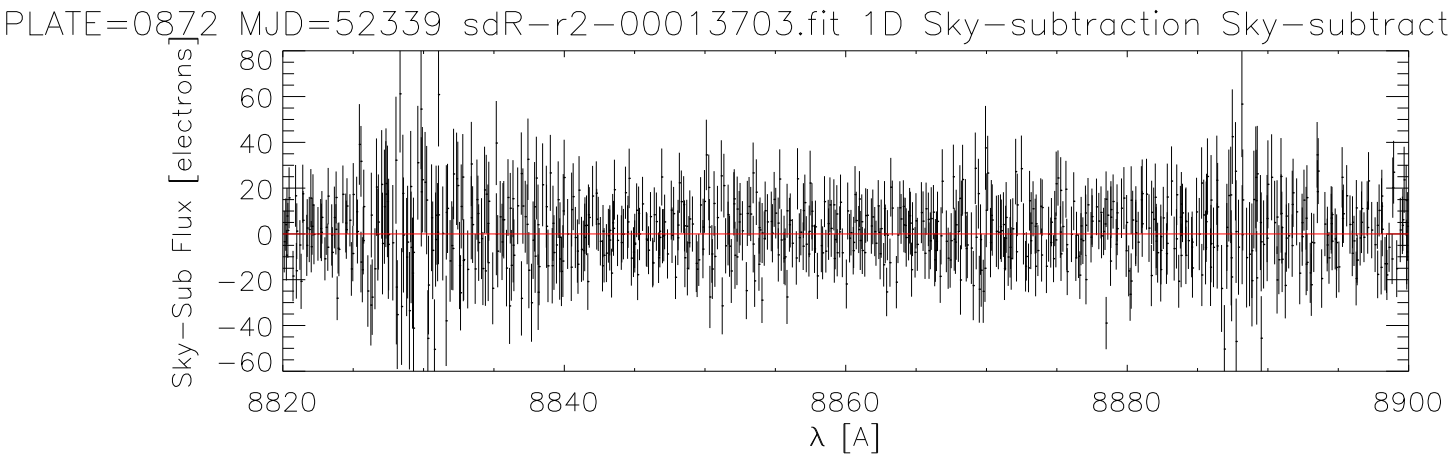

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
5000
6000
7000
8000
9000
10000

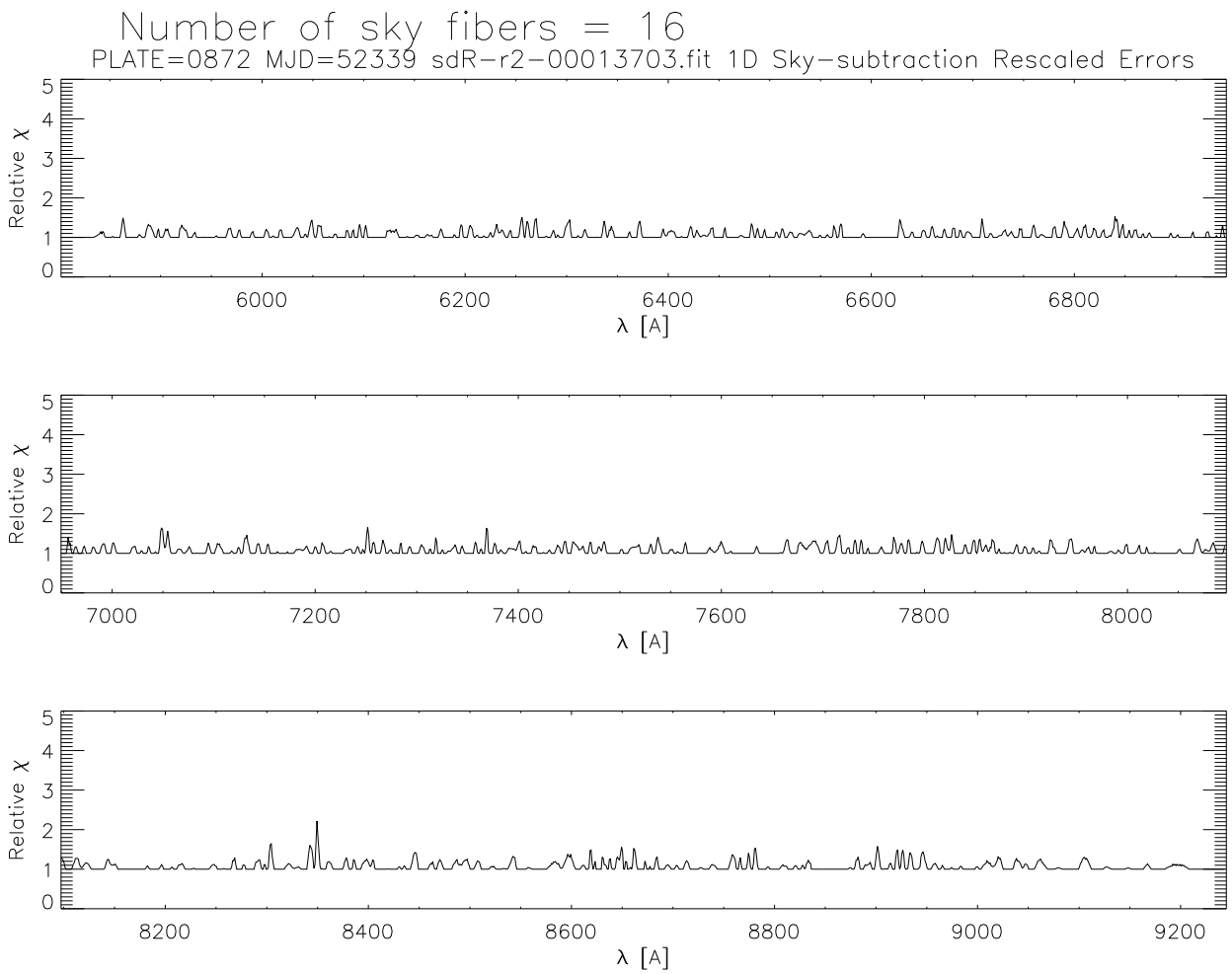

PLATE=0872 MJD=52339 Smooth superflat for sdR-r2-00013703.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

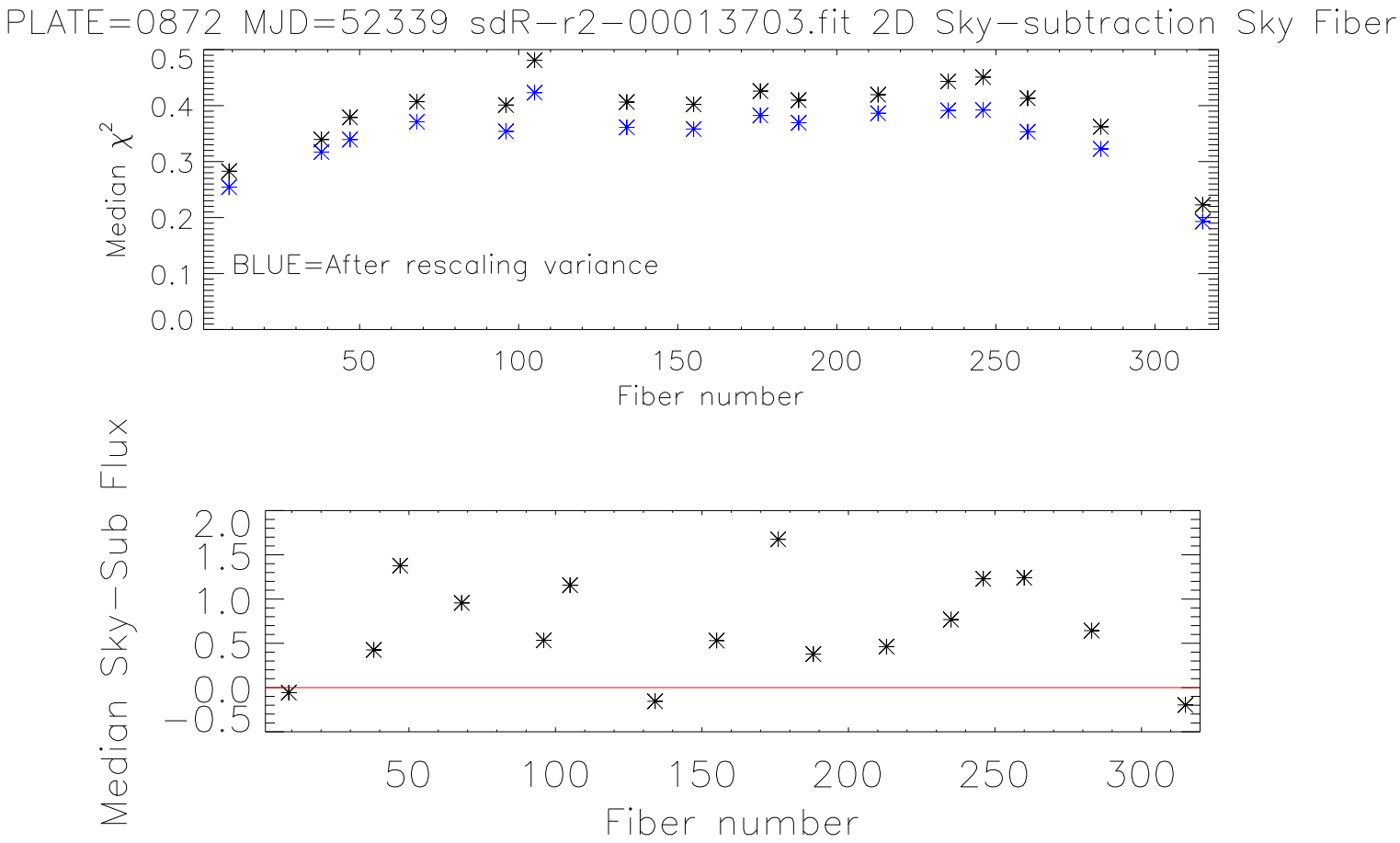
es= −0.0000

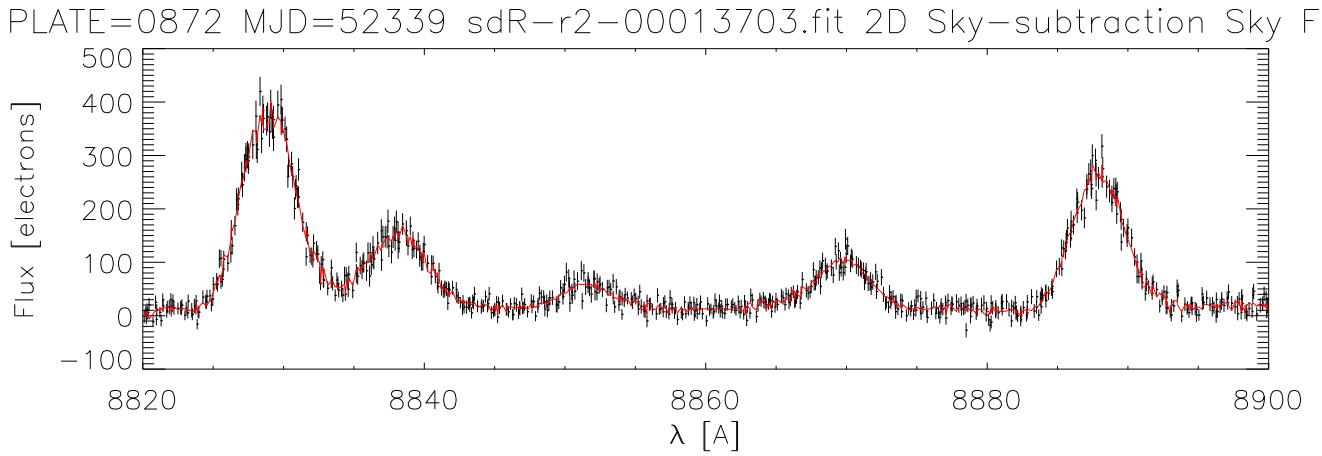

PLATE=0872 MJD=52339 sdR-r2-00013703.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

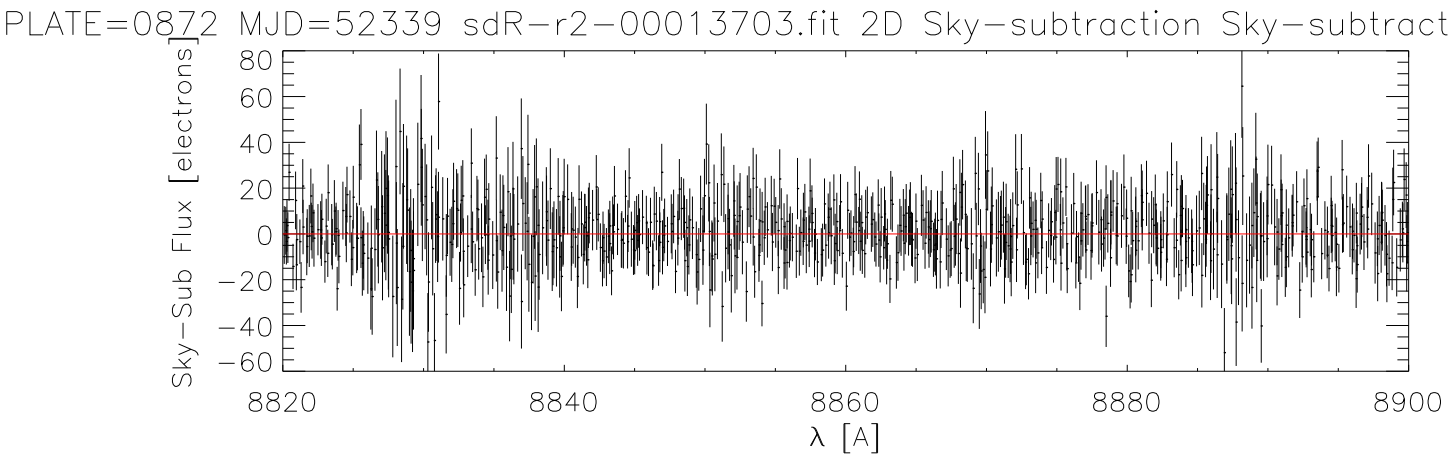

PLATE=0872 MJD=52339 sdR-r2-00013703.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
500
400
300
200
100
0
−100
8820
8840
8860
8880
8900
λ [A]

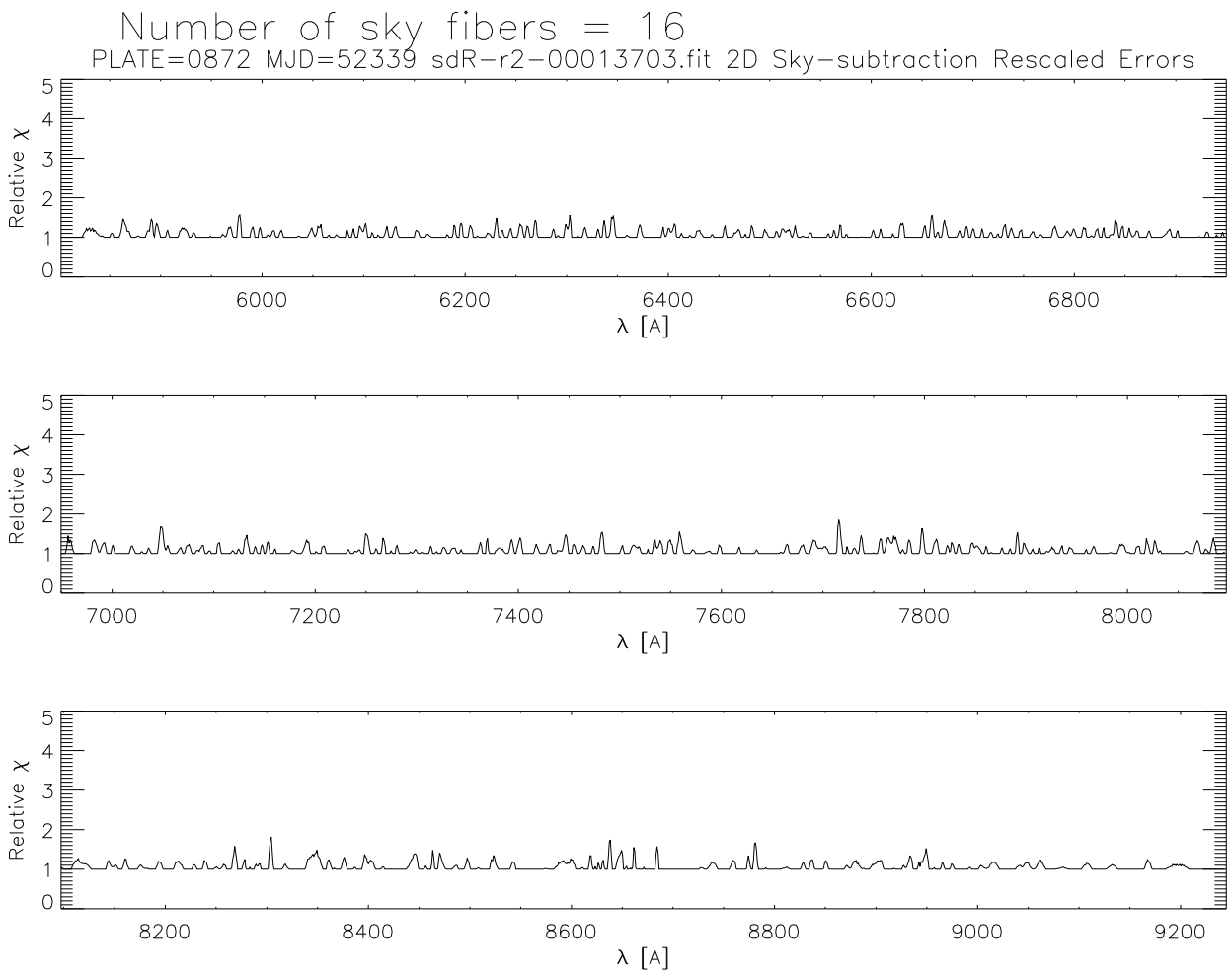

PLATE=0872 MJD=52339 sdR-r2-00013703.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
80
60
40
20
0
−20
−40
−60
8820
8840
8860
8880
8900
λ [A]

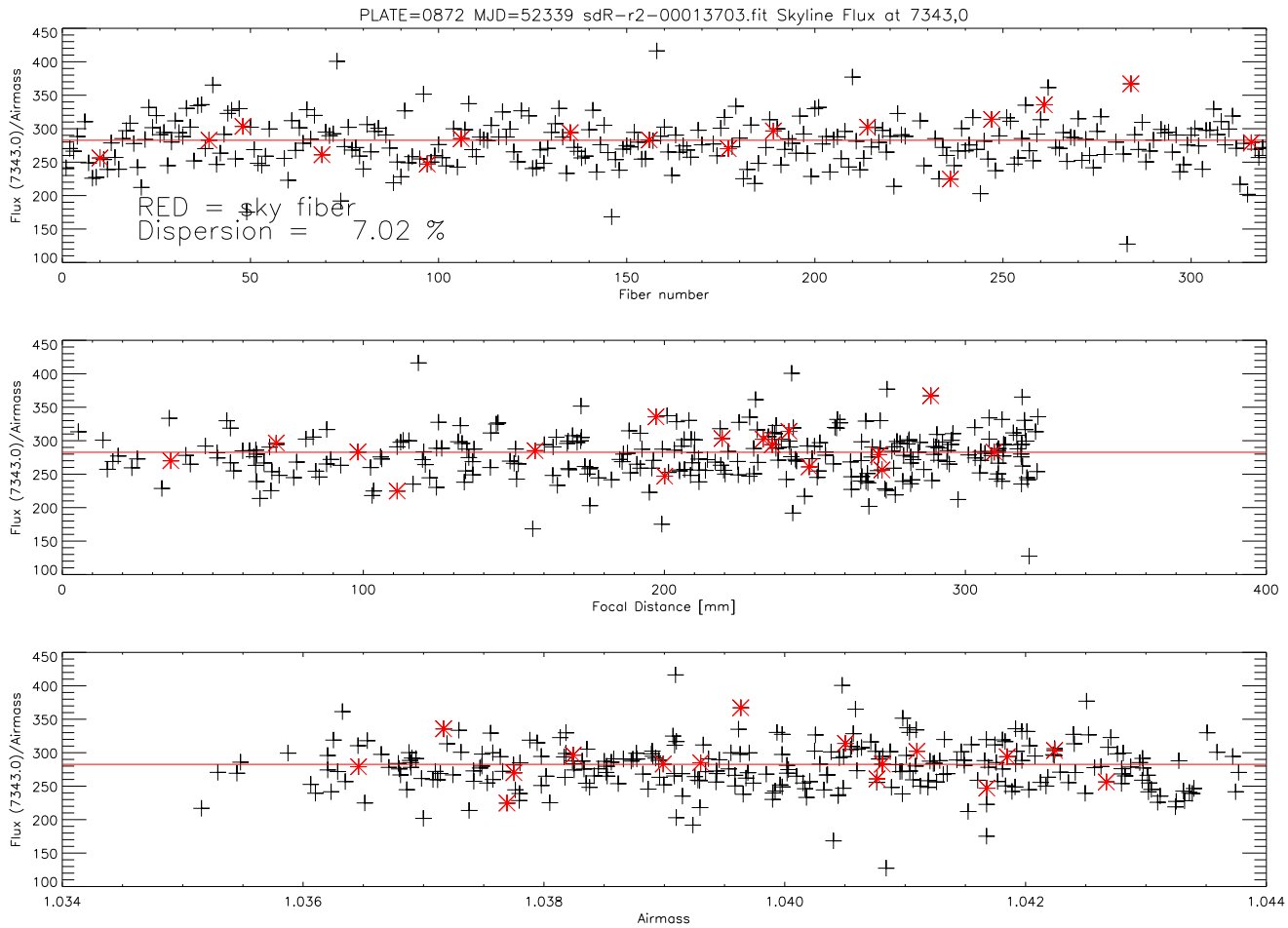

Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r2-00013703.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

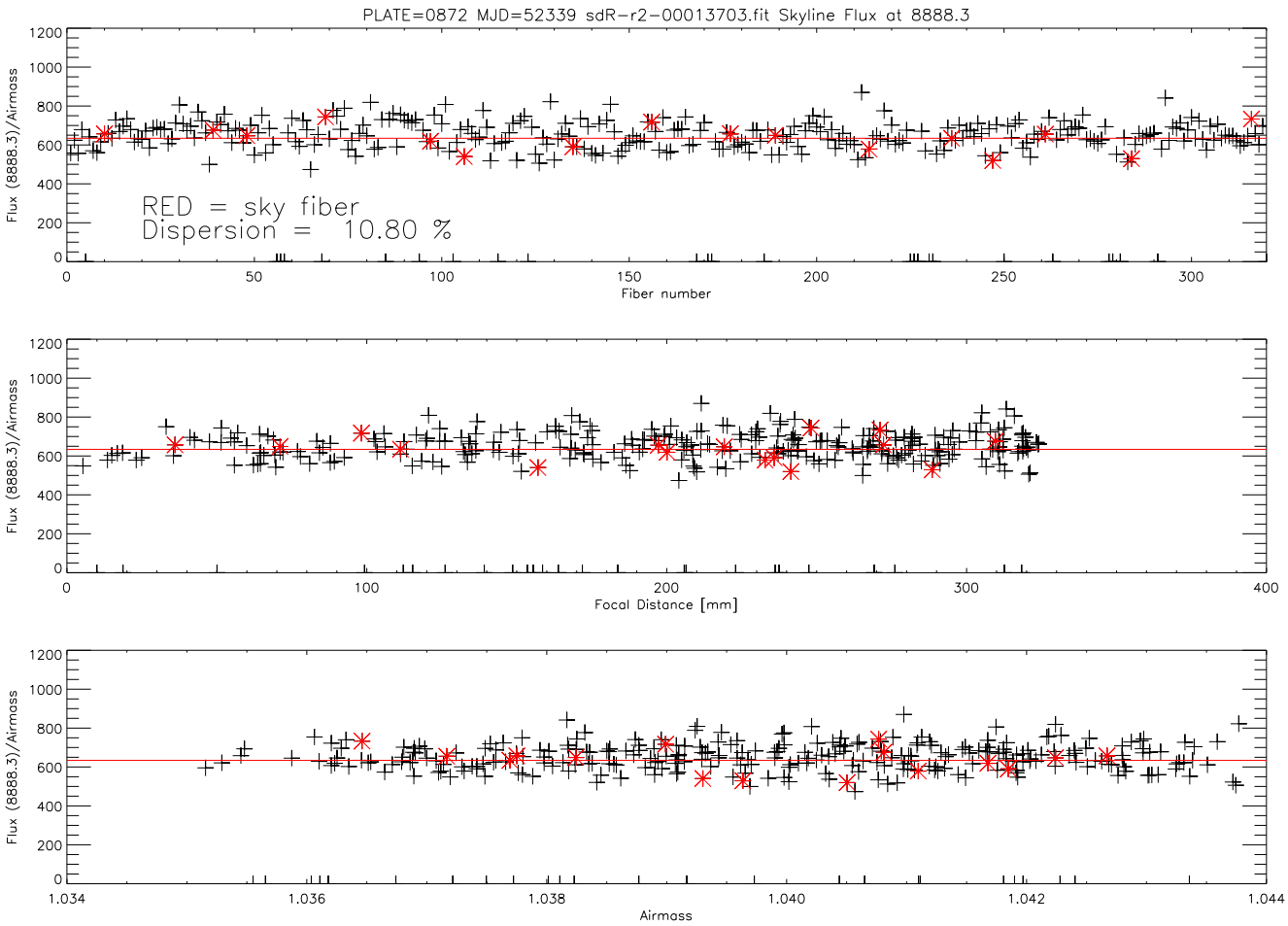

PLATE=0872 MJD=52339 sdR-r2-00013703.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=0872 MJD=52339 sdR-r2-00013703.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
500
400
300
200
100
0
−100
8820
8840
8860
8880
8900
λ [A]


PLATE=0872 MJD=52339 sdR-r2-00013703.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
80
60
40
20
0
−20
−40
−60
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 16
PLATE=0872 MJD=52339 sdR-r2-00013703.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200


PLATE=0872 MJD=52339 sdR-r2-00013703.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 7.02 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=0872 MJD=52339 sdR-r2-00013703.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 10.80 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass