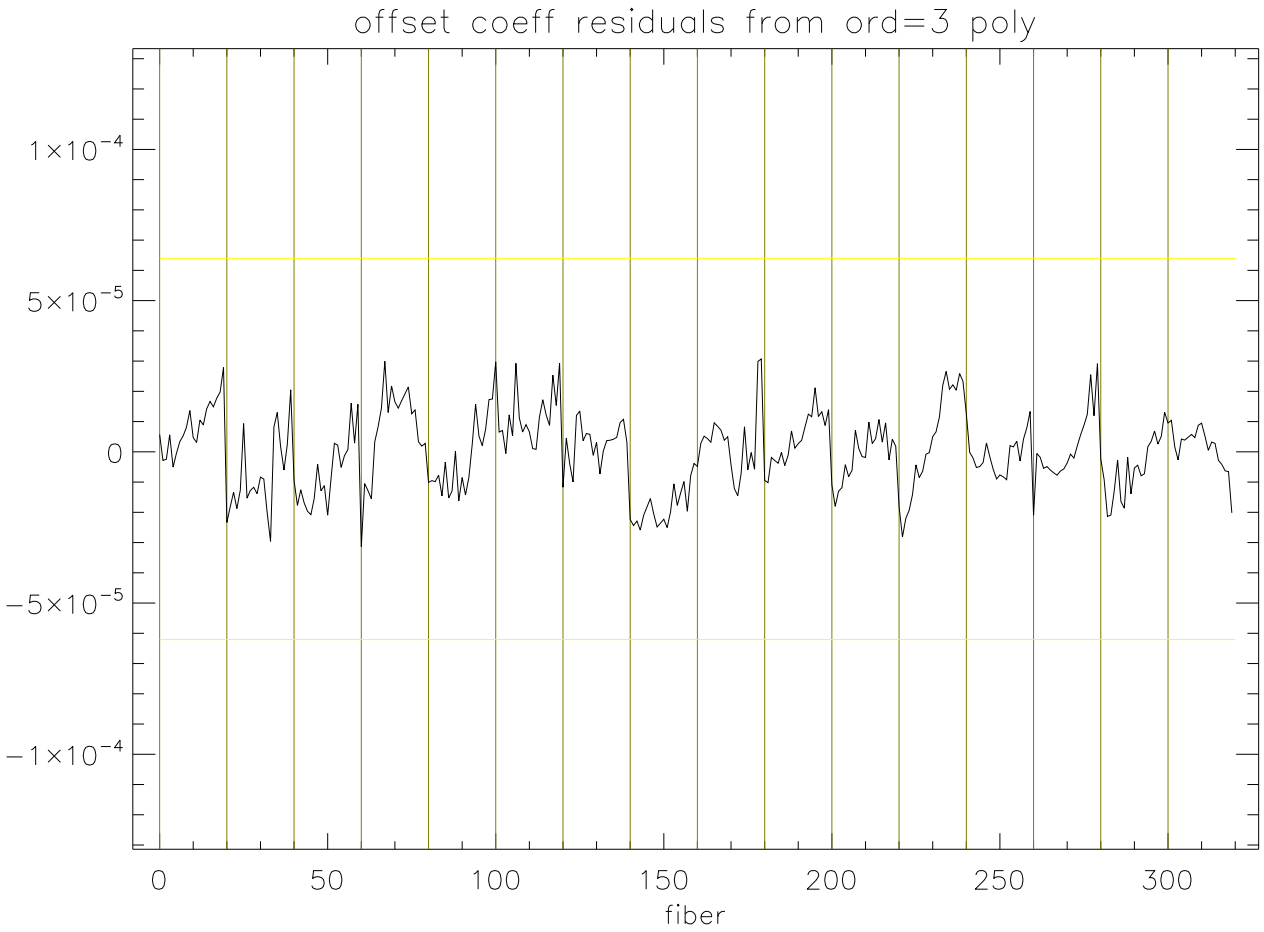
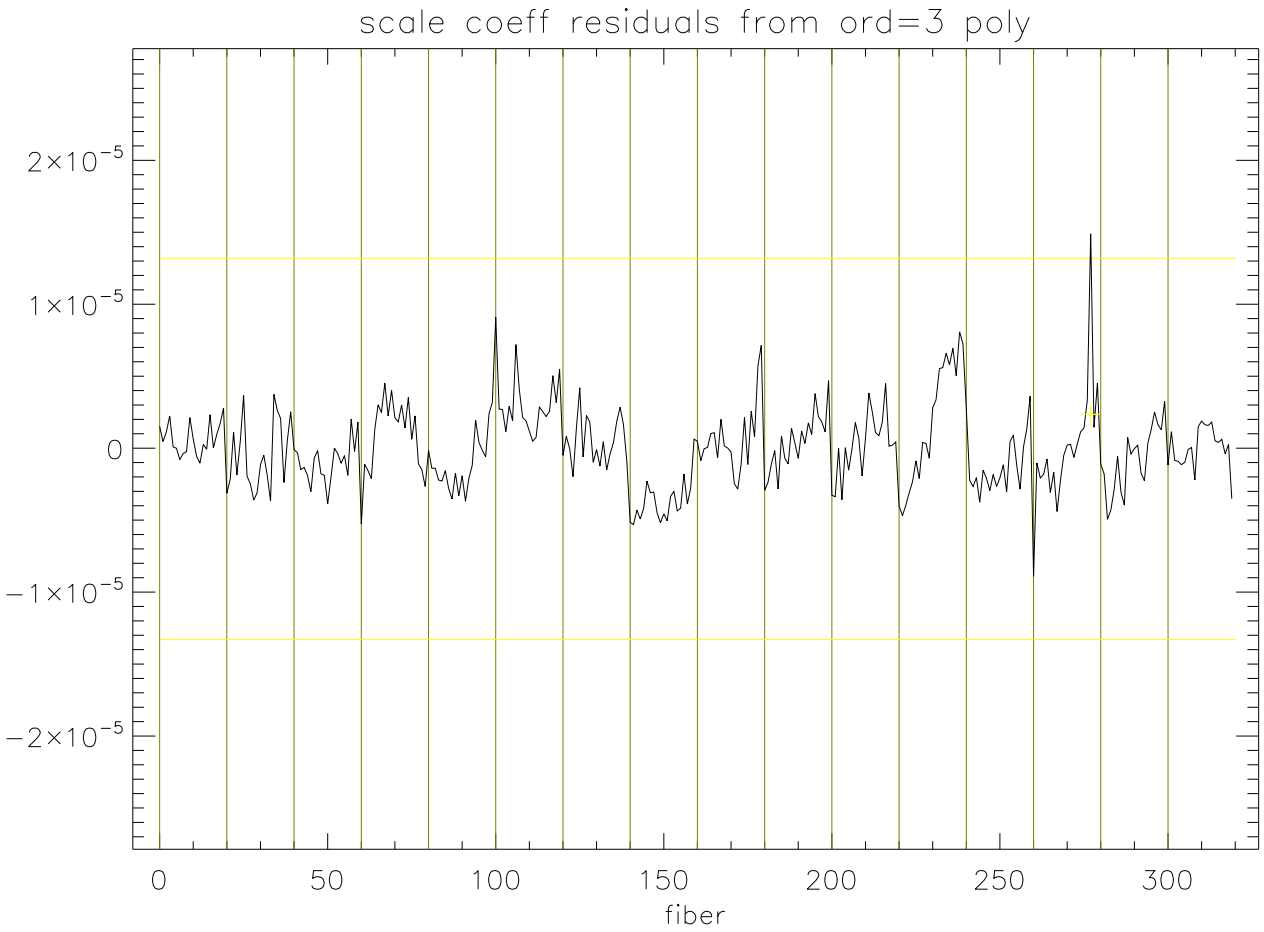
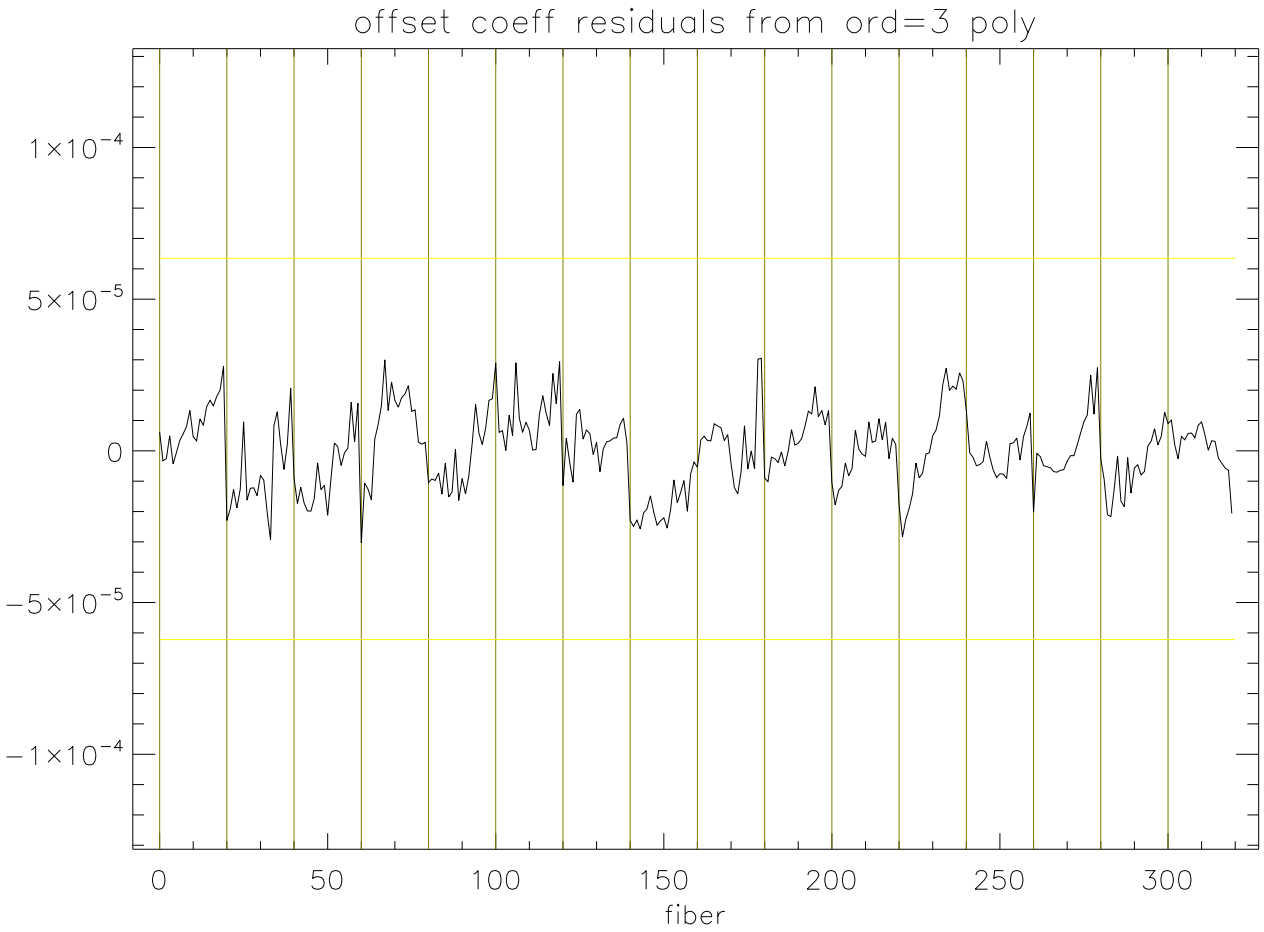
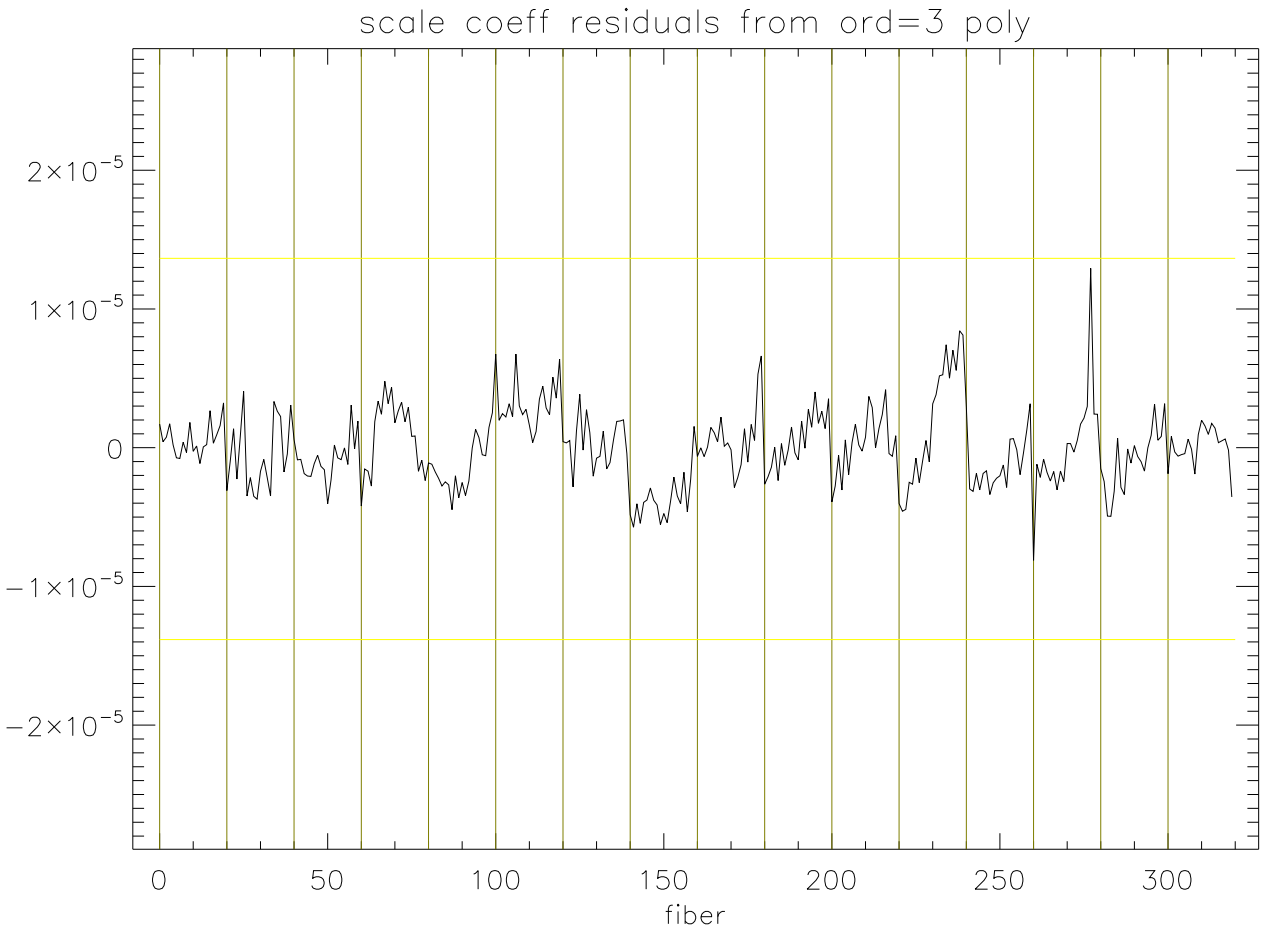
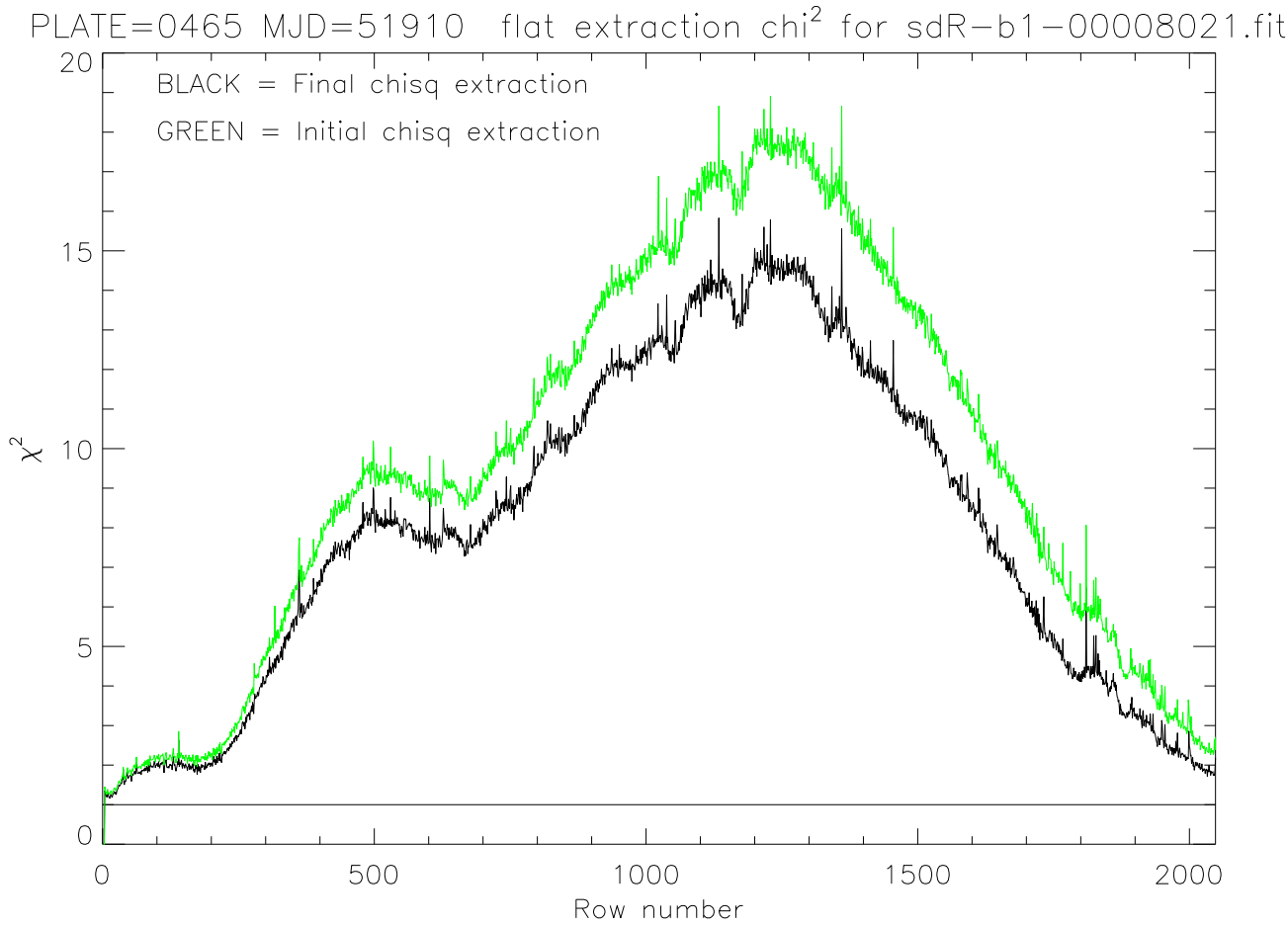
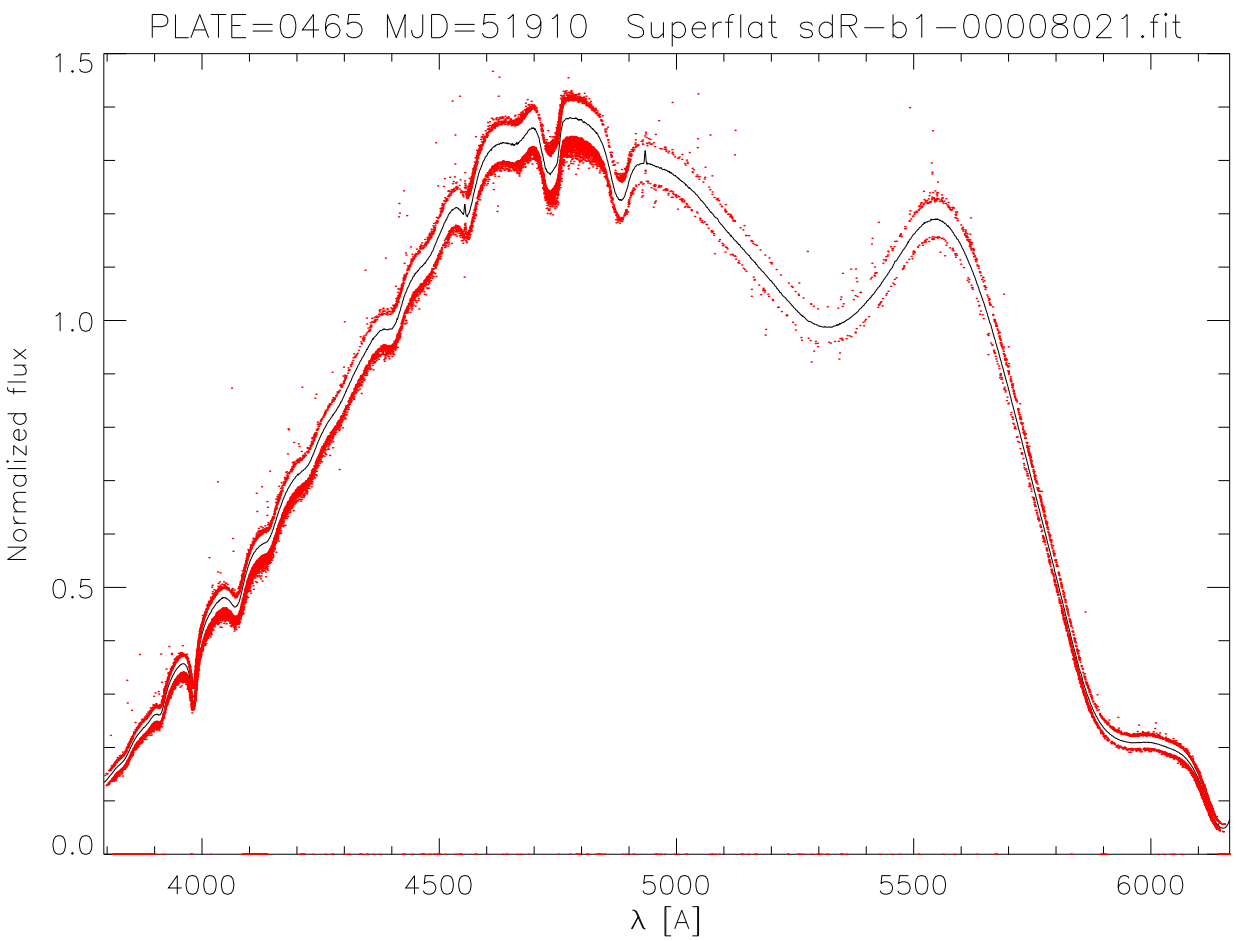

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

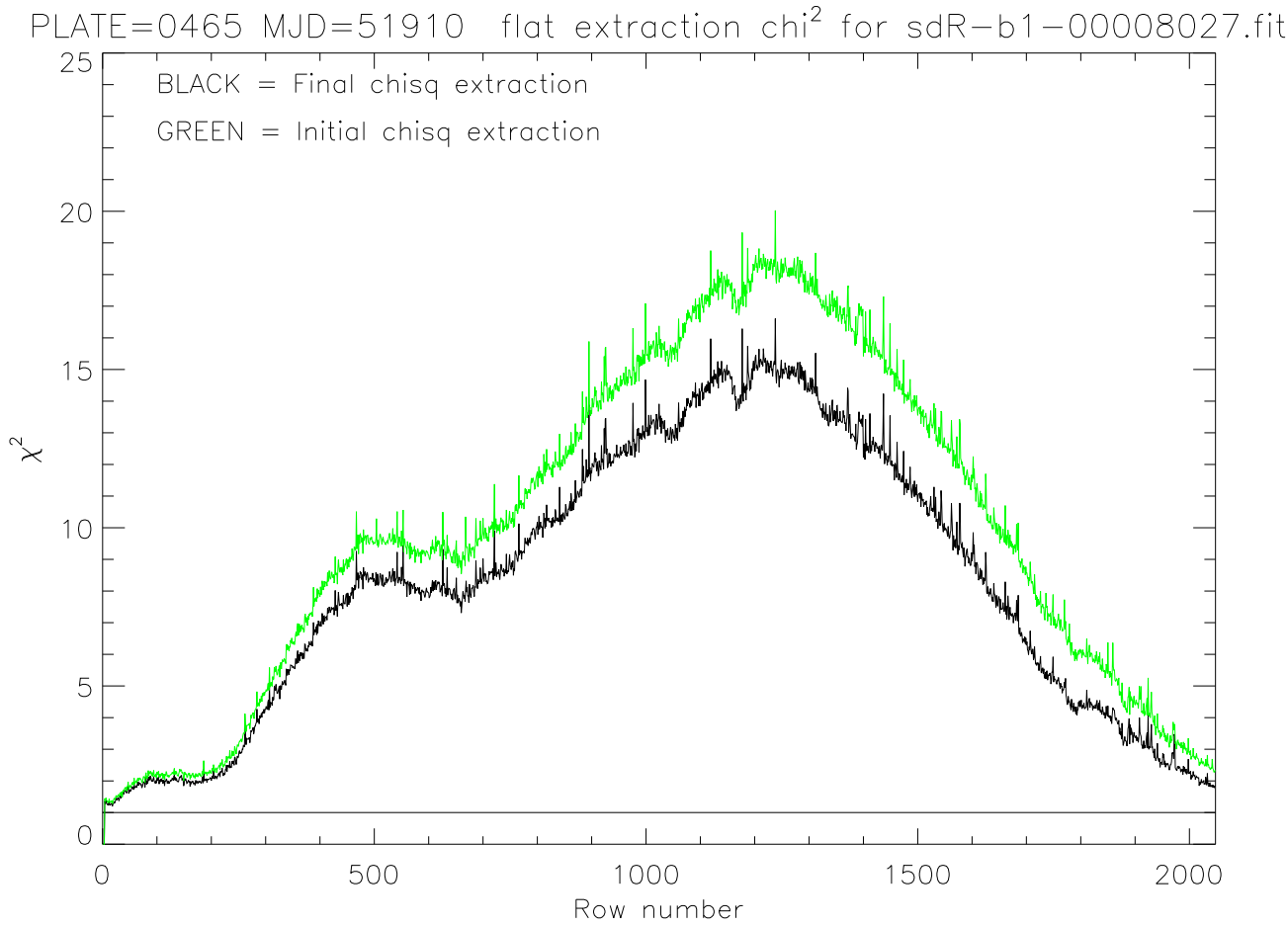

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

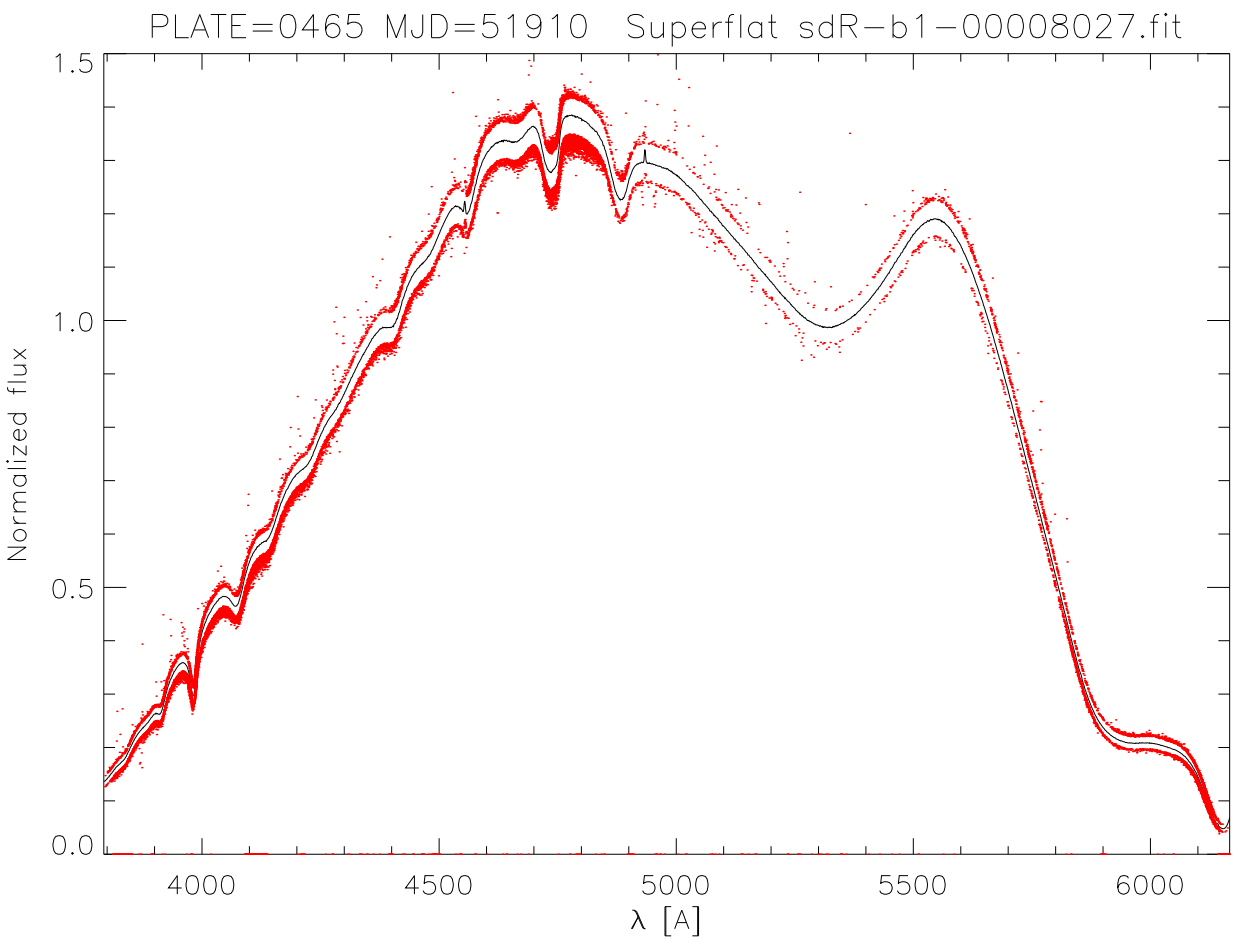

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

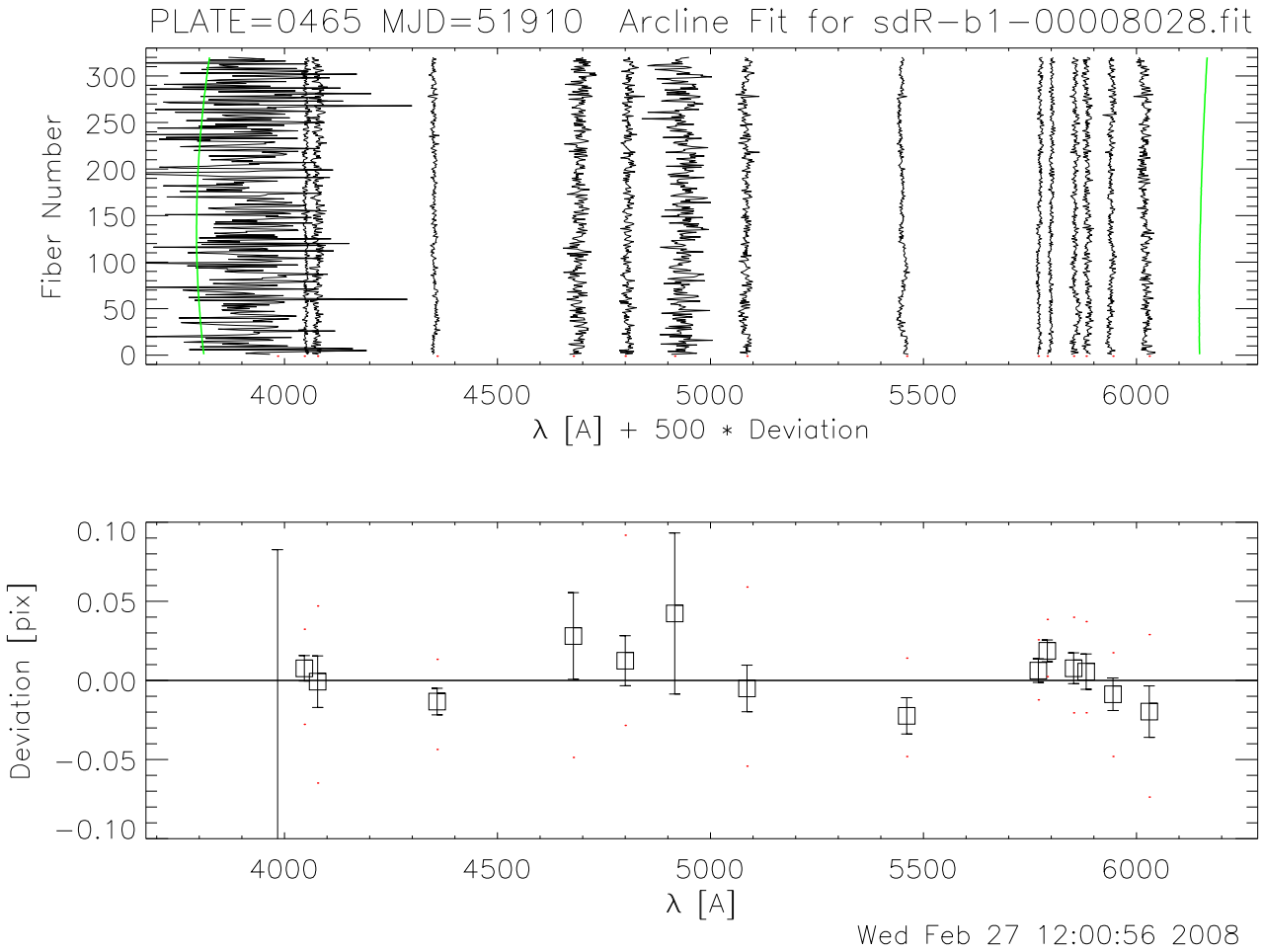

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

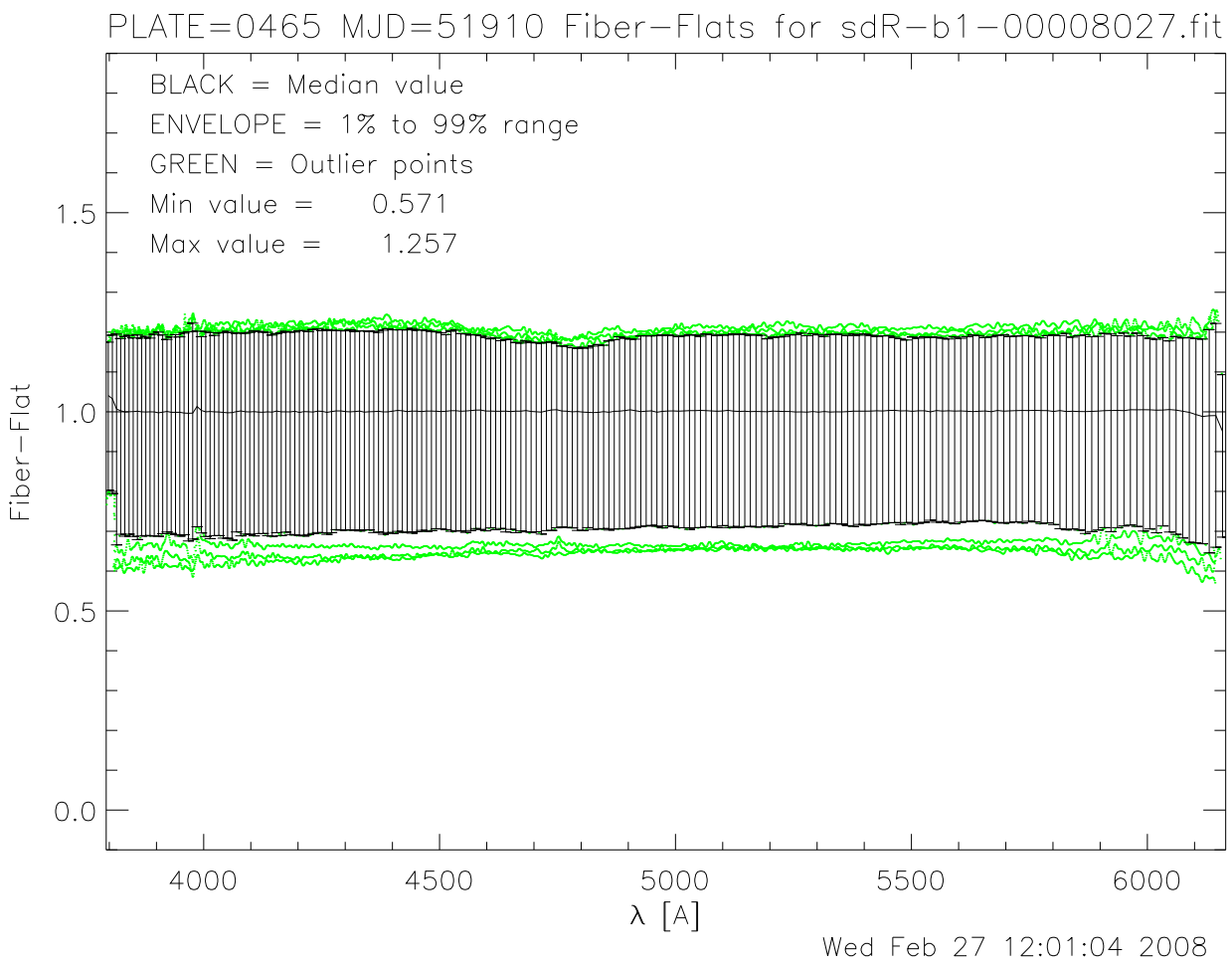

PLATE=0465 MJD=51910 flat extraction chi^2 for sdR−b1−00008021.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

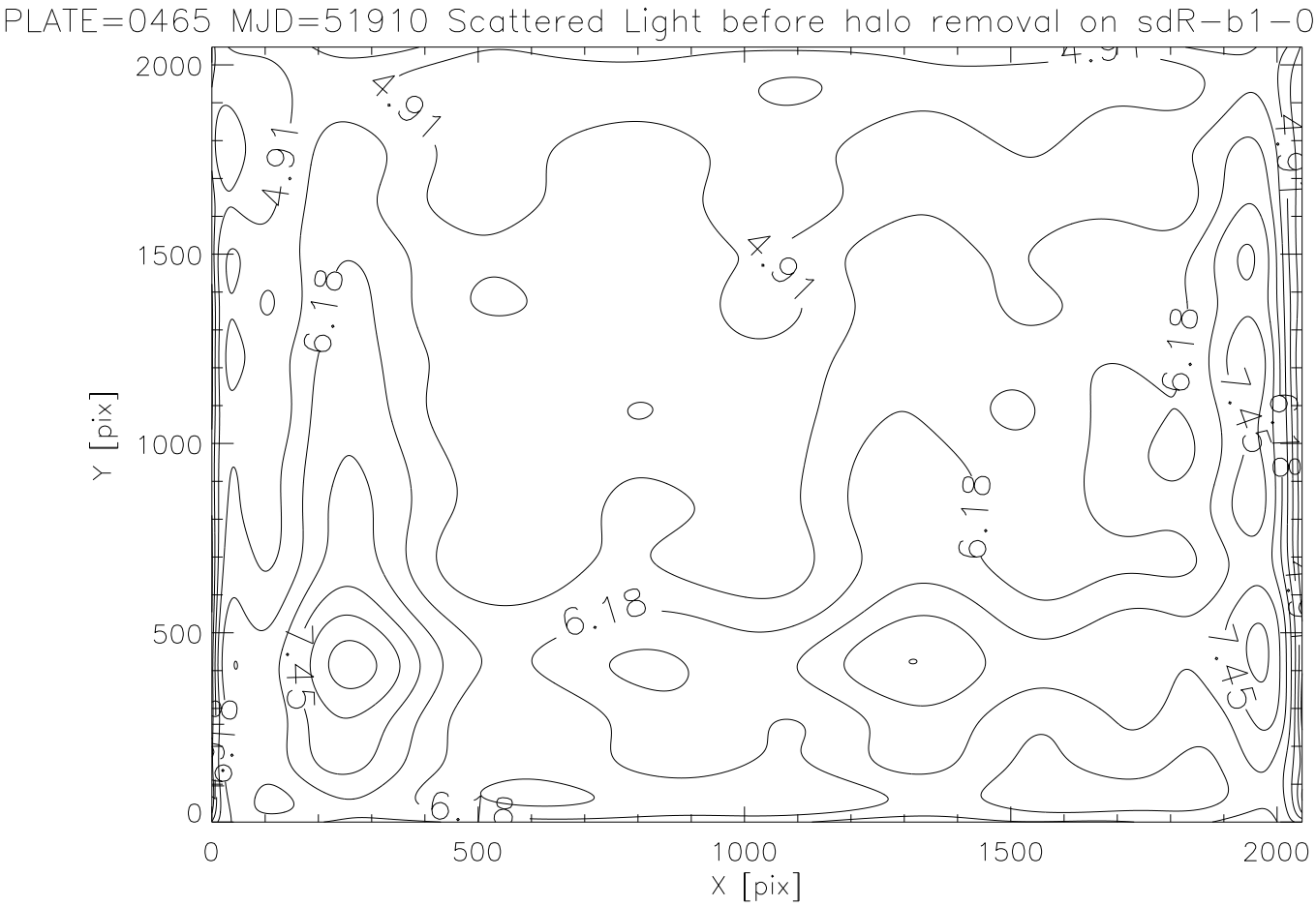

PLATE=0465 MJD=51910 Superflat sdR-b1-00008021.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

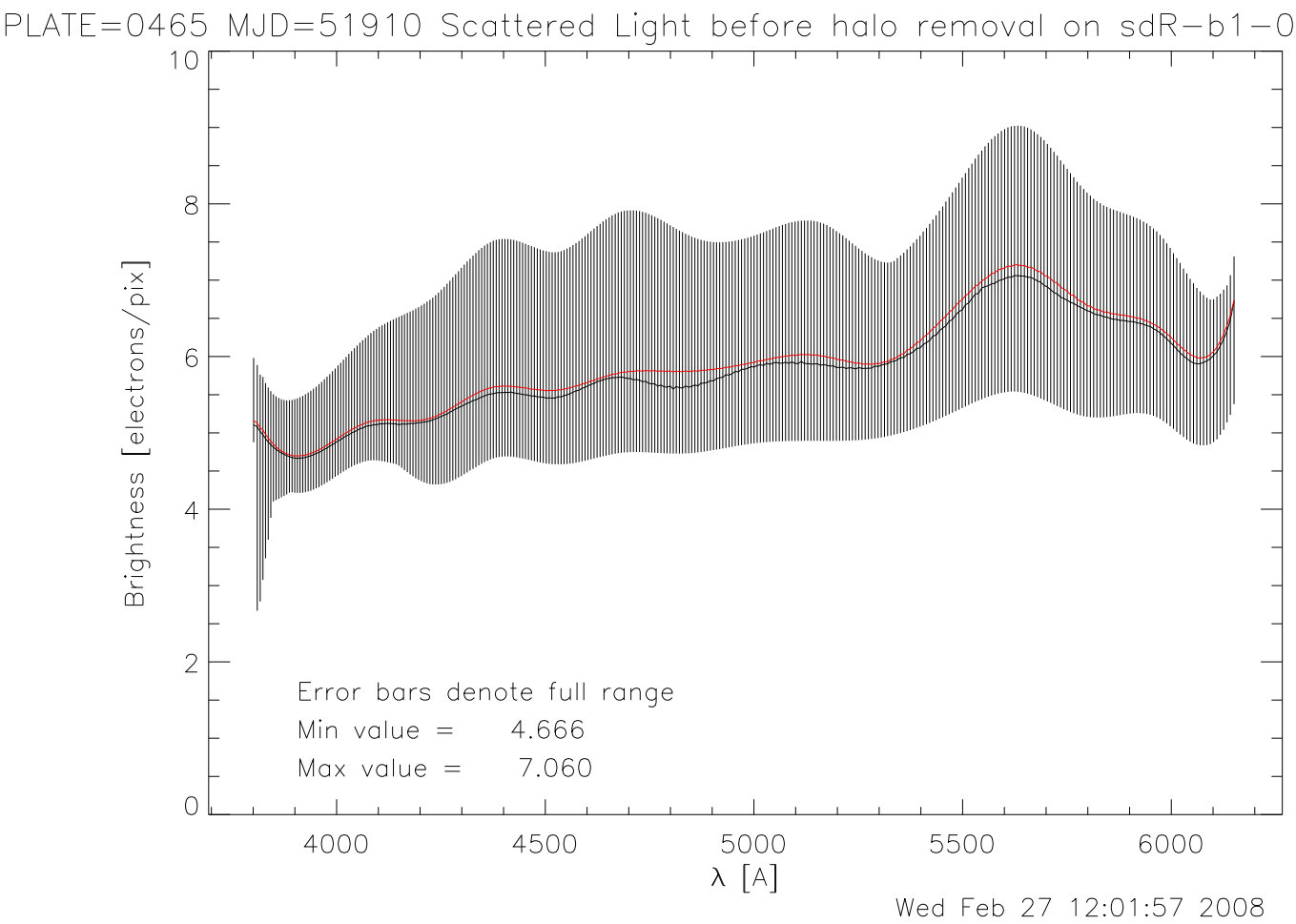

PLATE=0465 MJD=51910 flat extraction chi^2 for sdR−b1−00008027.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
25
0
500
1000
1500
2000

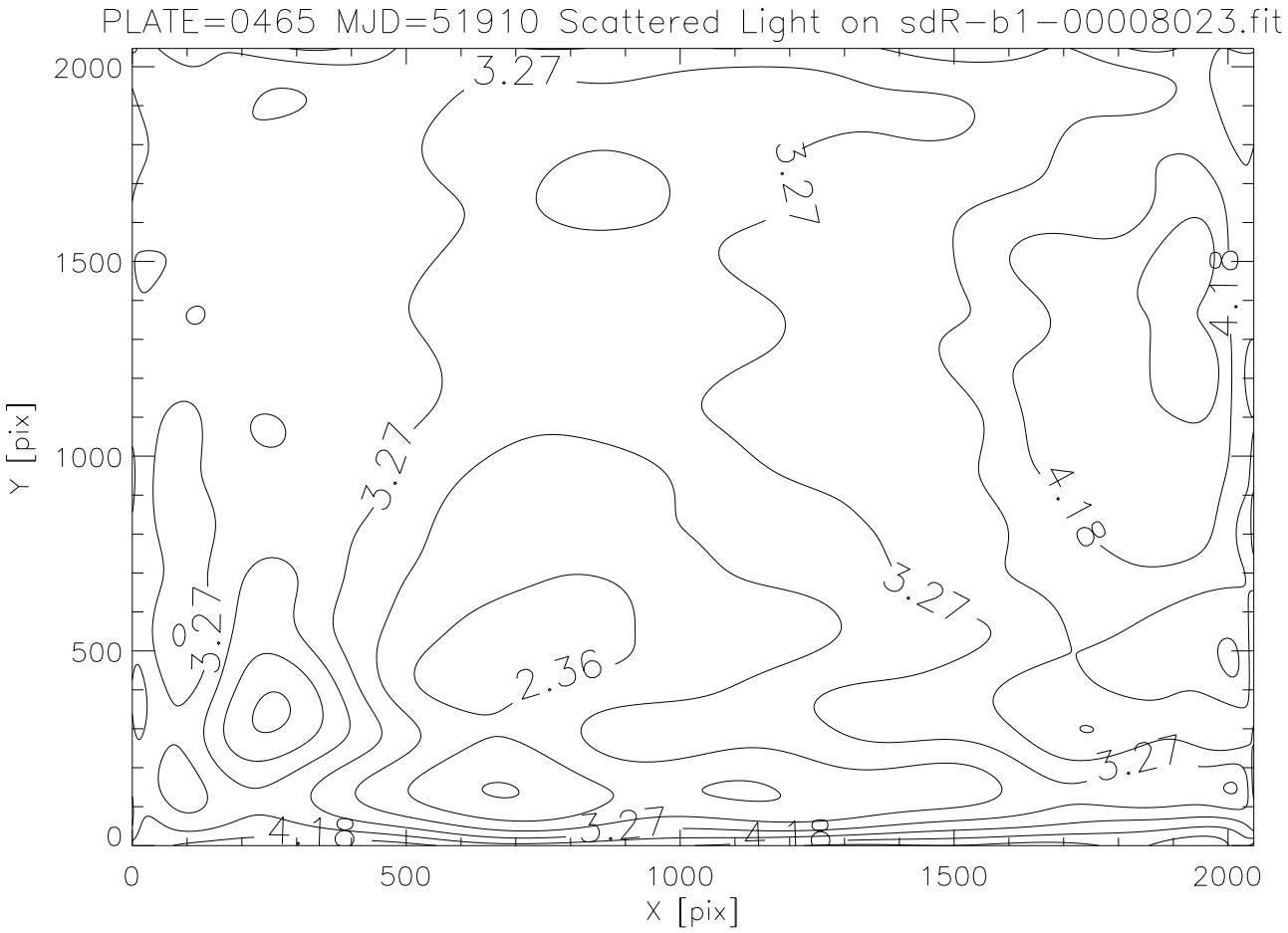

PLATE=0465 MJD=51910 Superflat sdR-b1-00008027.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

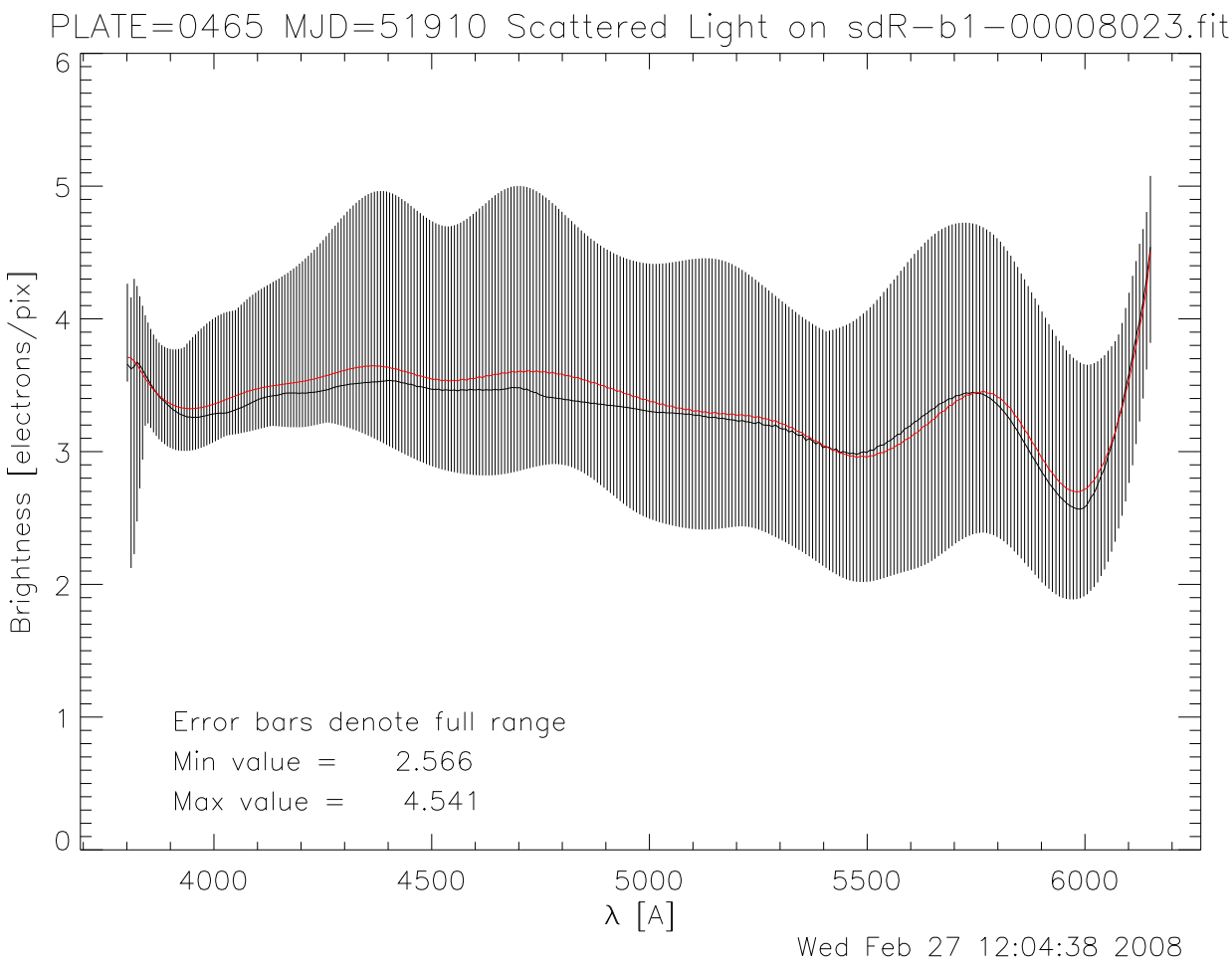

PLATE=0465 MJD=51910 Arcline Fit for sdR-b1-00008028.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:00:56 2008

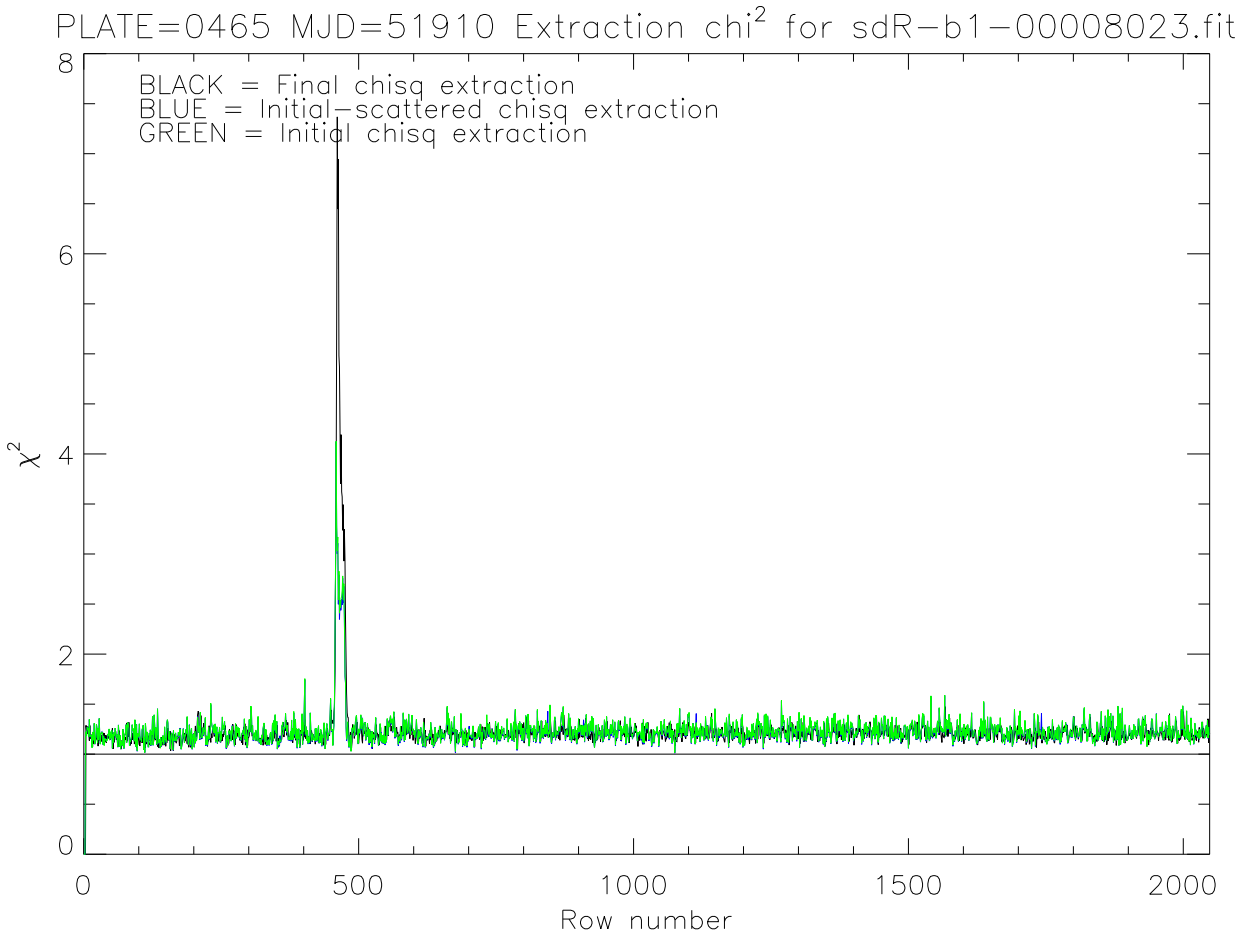

PLATE=0465 MJD=51910 Fiber-Flats for sdR-b1-00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.571
Max value = 1.257
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:01:04 2008

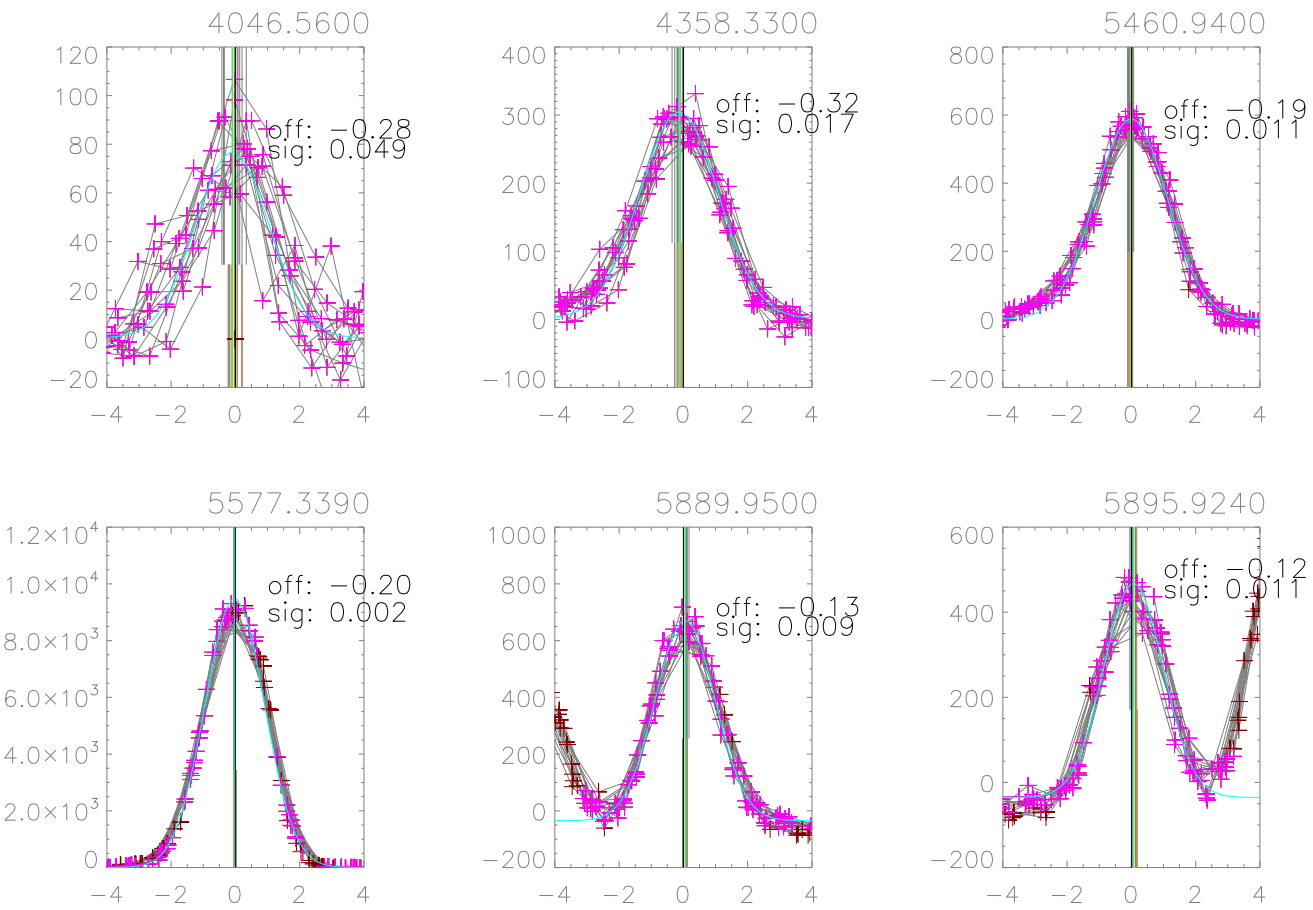

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR−b1−00008023.f
Y [pix]
X [pix]
0
500
1000
1500
2000
4.91
6.18
7.45
0

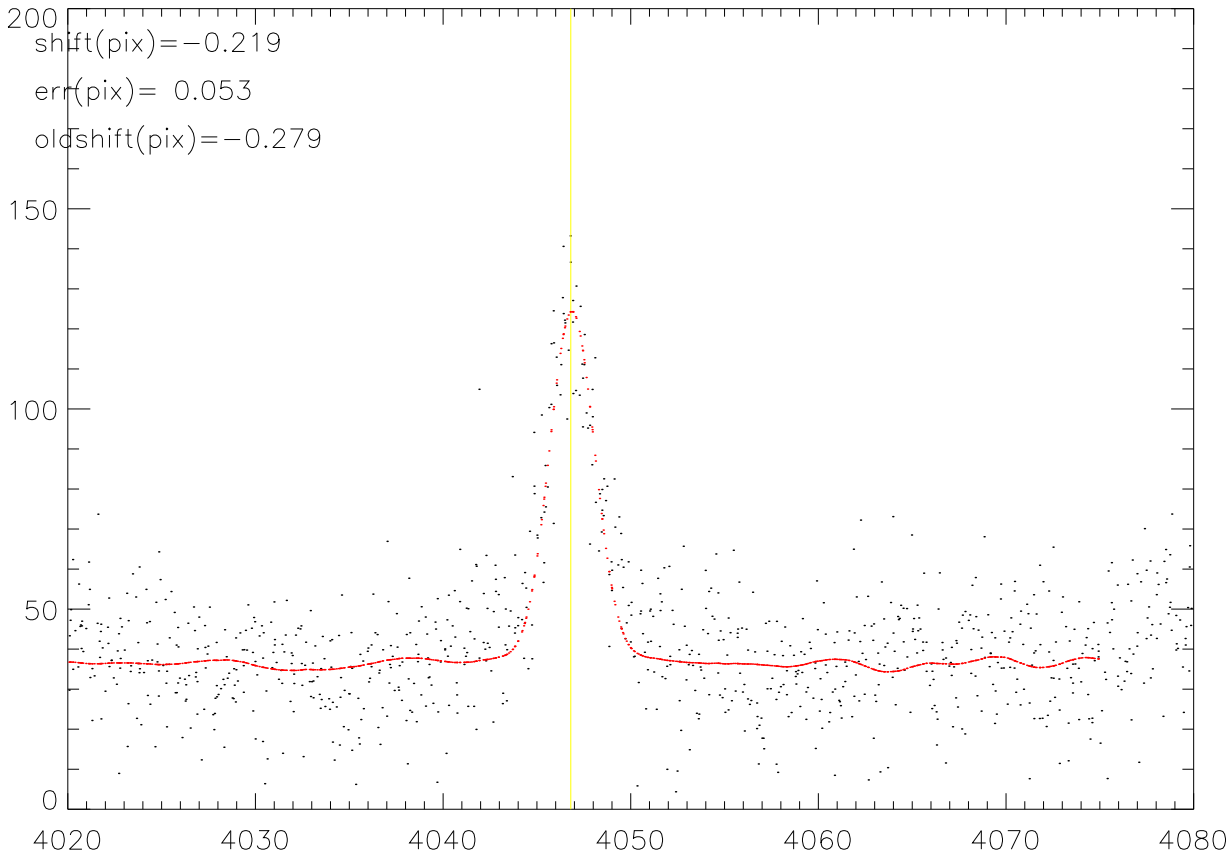

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-b1-00008023.f
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 4.666
Max value = 7.060
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:01:57 2008

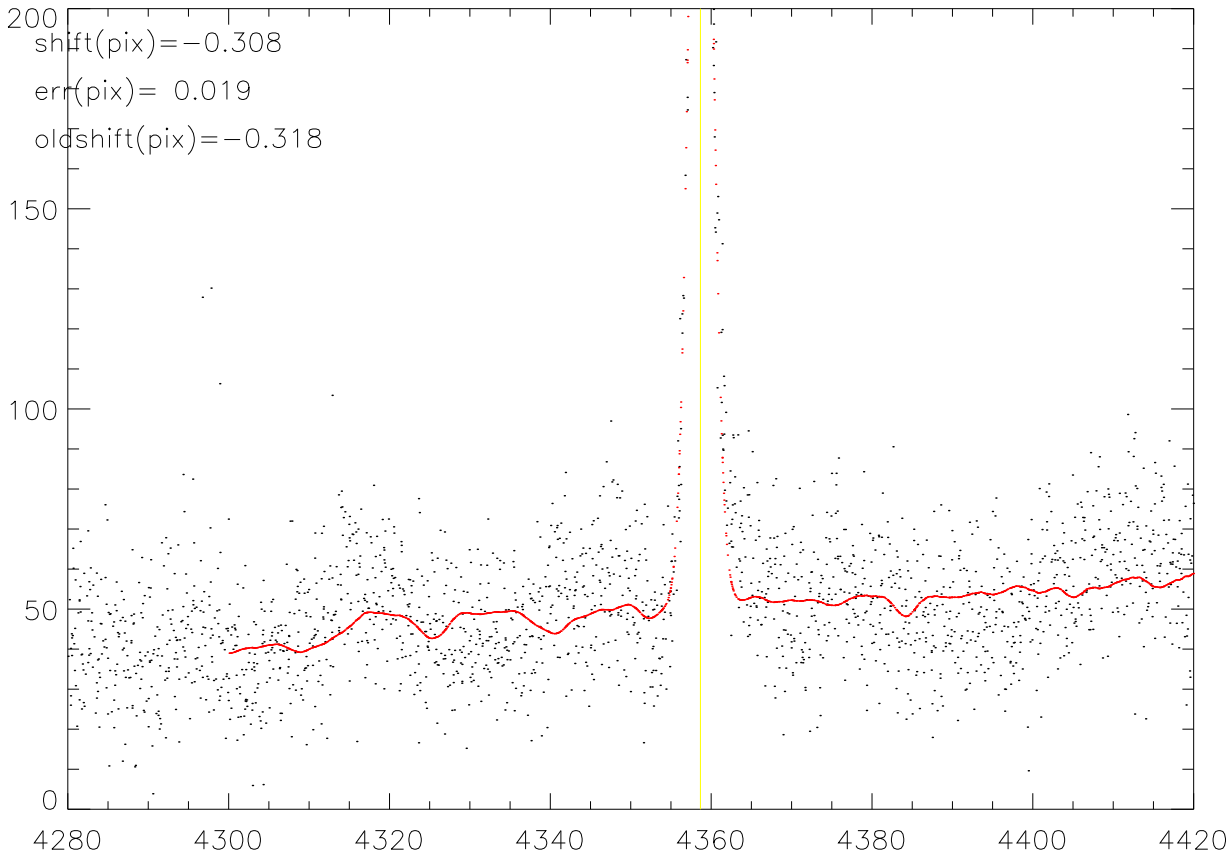

PLATE=0465 MJD=51910 Scattered Light on sdR-b1-00008023.fit
3.27
3.27
4.18
3.27
4.18
3.27
3.27
2.36
3.27
4.18
3.27
4.18
Y [pix]
X [pix]
0
500
1000
1500
2000

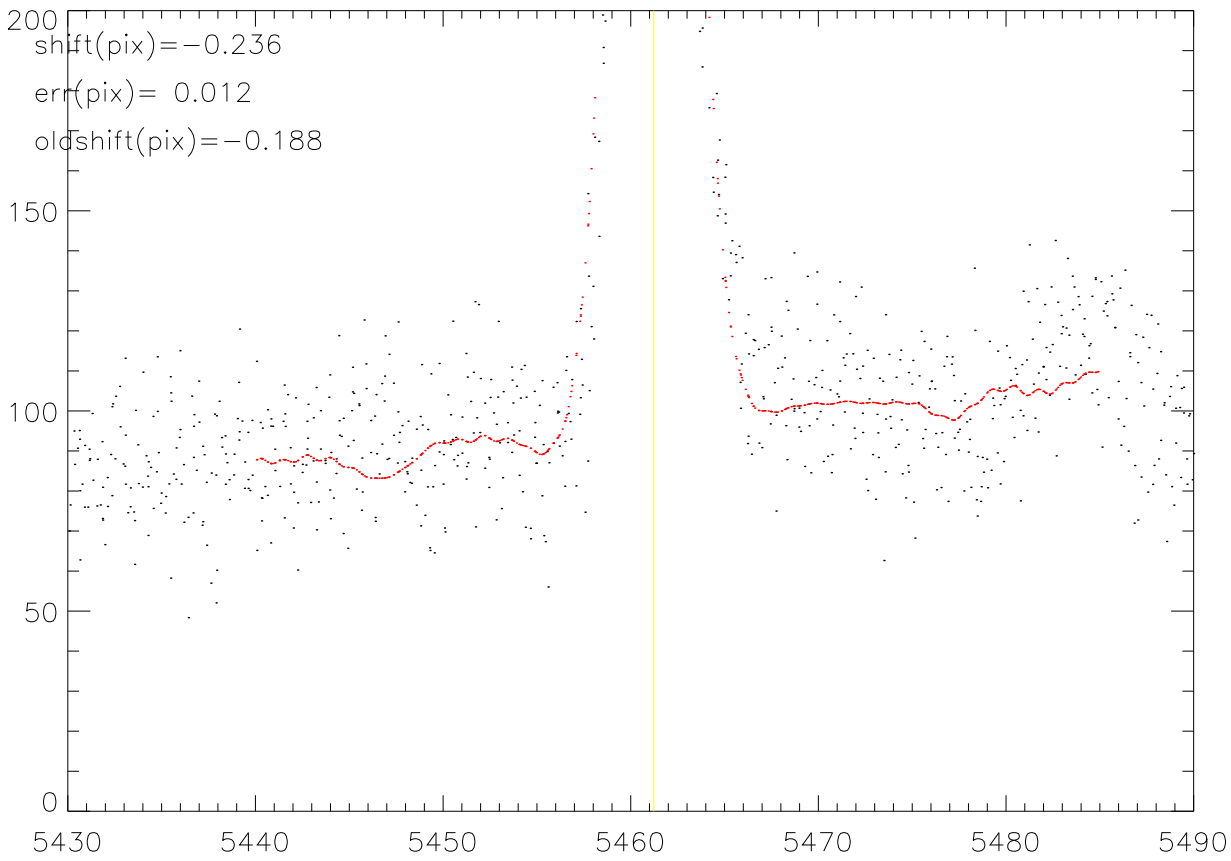

PLATE=0465 MJD=51910 Scattered Light on sdR-b1-00008023.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.566
Max value = 4.541
Wed Feb 27 12:04:38 2008

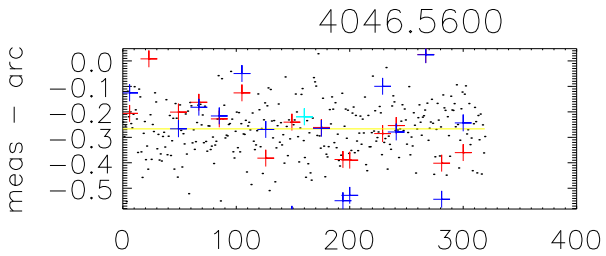

PLATE=0465 MJD=51910 Extraction chi^2 for sdR-b1-00008023.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

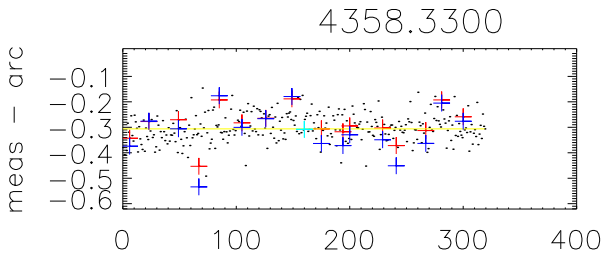

4046.5600
off: −0.28
sig: 0.049
4358.3300
off: −0.32
sig: 0.017
5460.9400
off: −0.19
sig: 0.011
5577.3390
off: −0.20
sig: 0.002
5889.9500
off: −0.13
sig: 0.009
5895.9240
off: −0.12
sig: 0.011

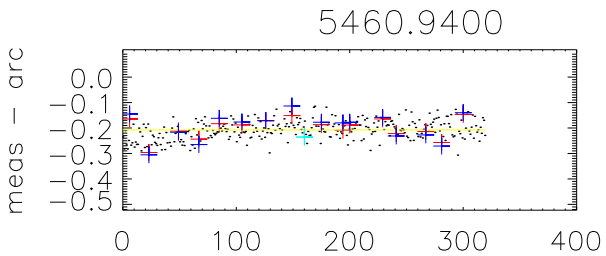

shift(pix)=−0.219
err(pix)= 0.053
oldshift(pix)=−0.279
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

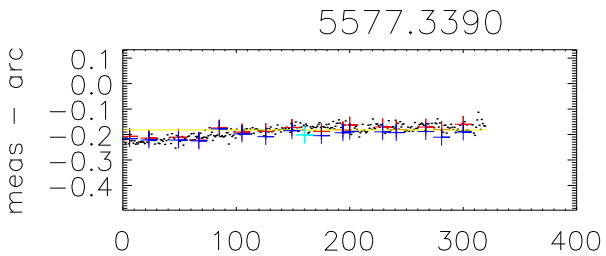

shift(pix)=−0.308
err(pix)= 0.019
oldshift(pix)=−0.318
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

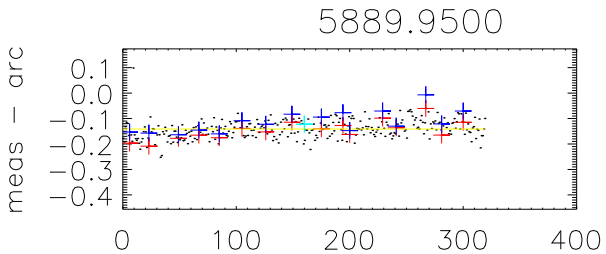

shift(pix)=−0.236
err(pix)= 0.012
oldshift(pix)=−0.188
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

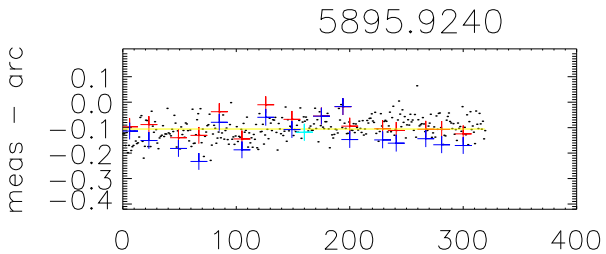

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

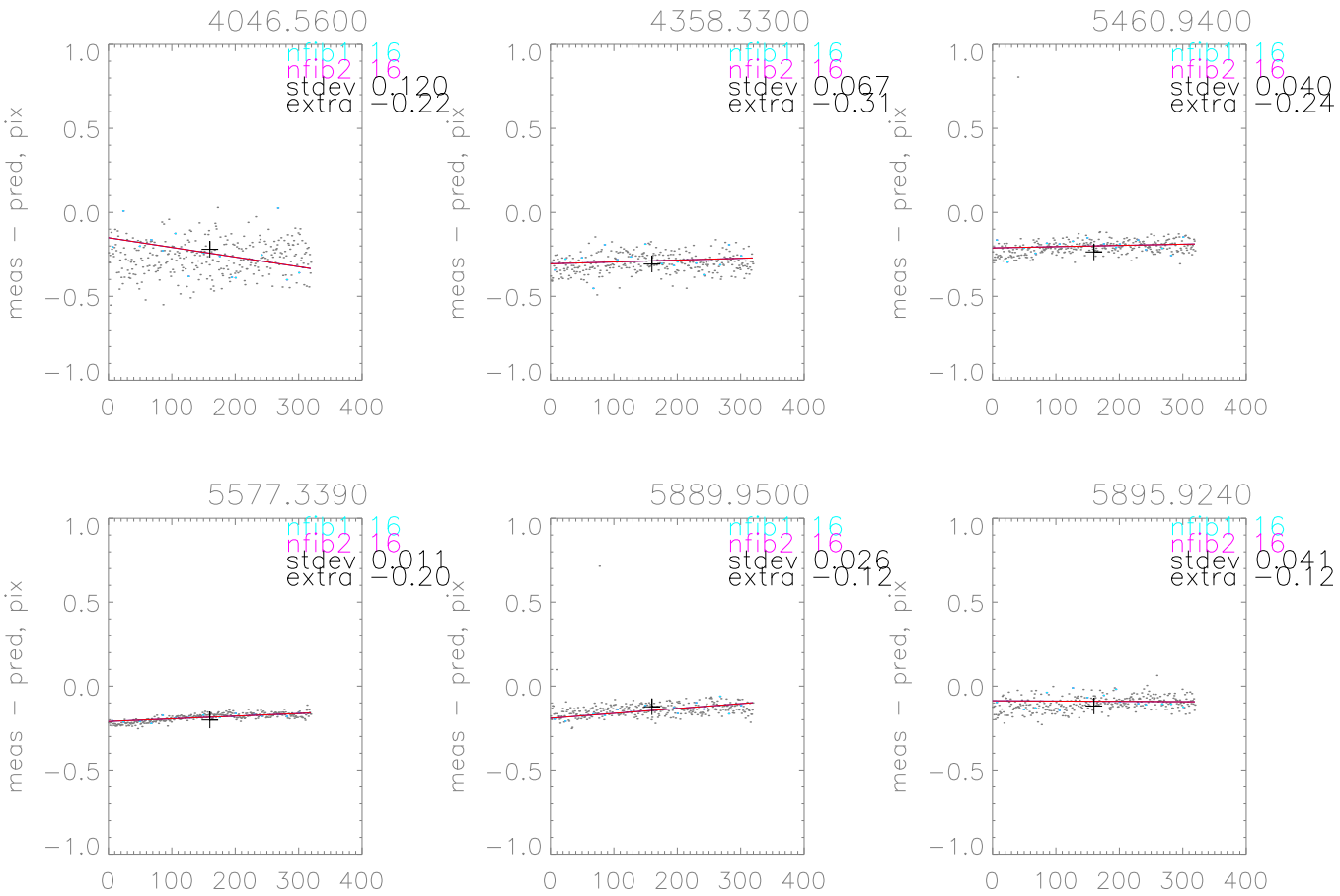

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

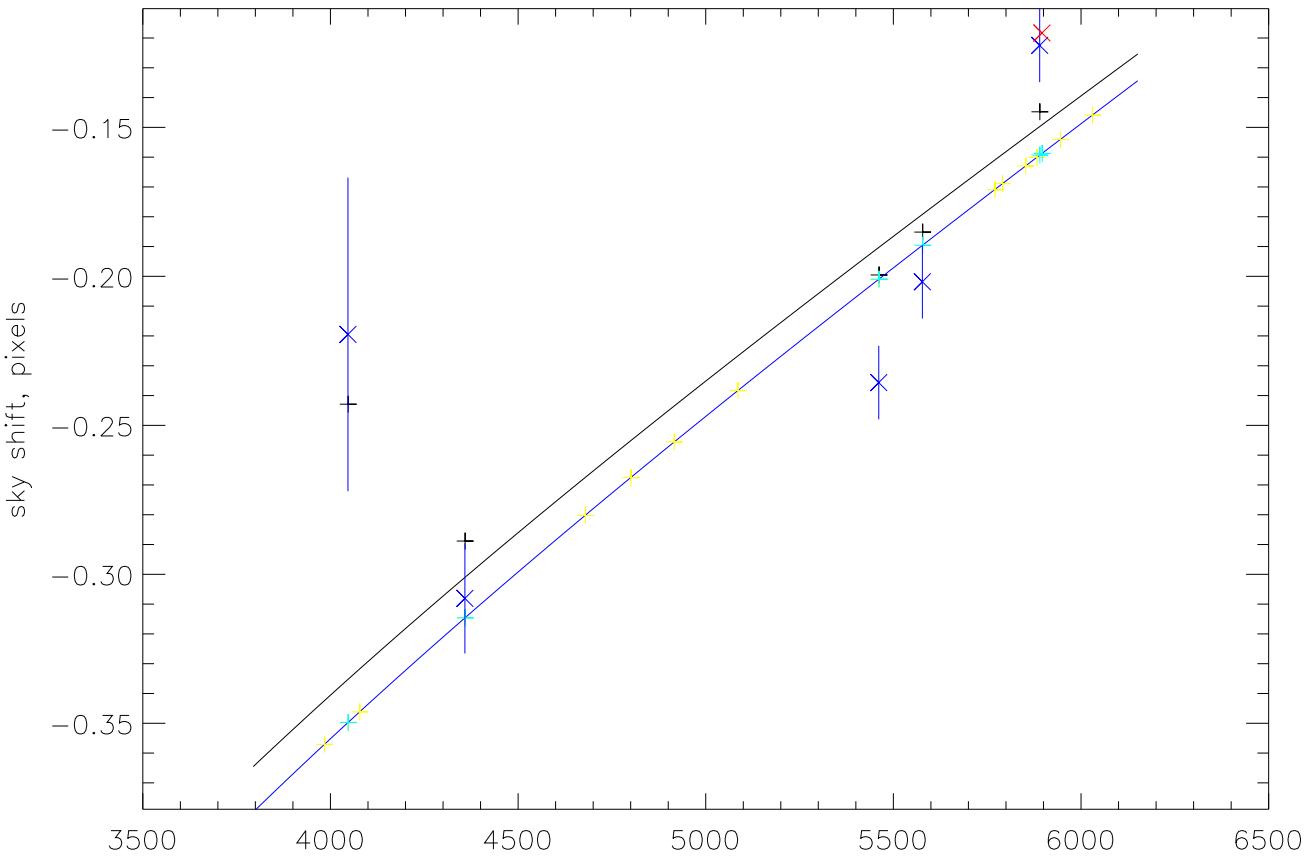

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

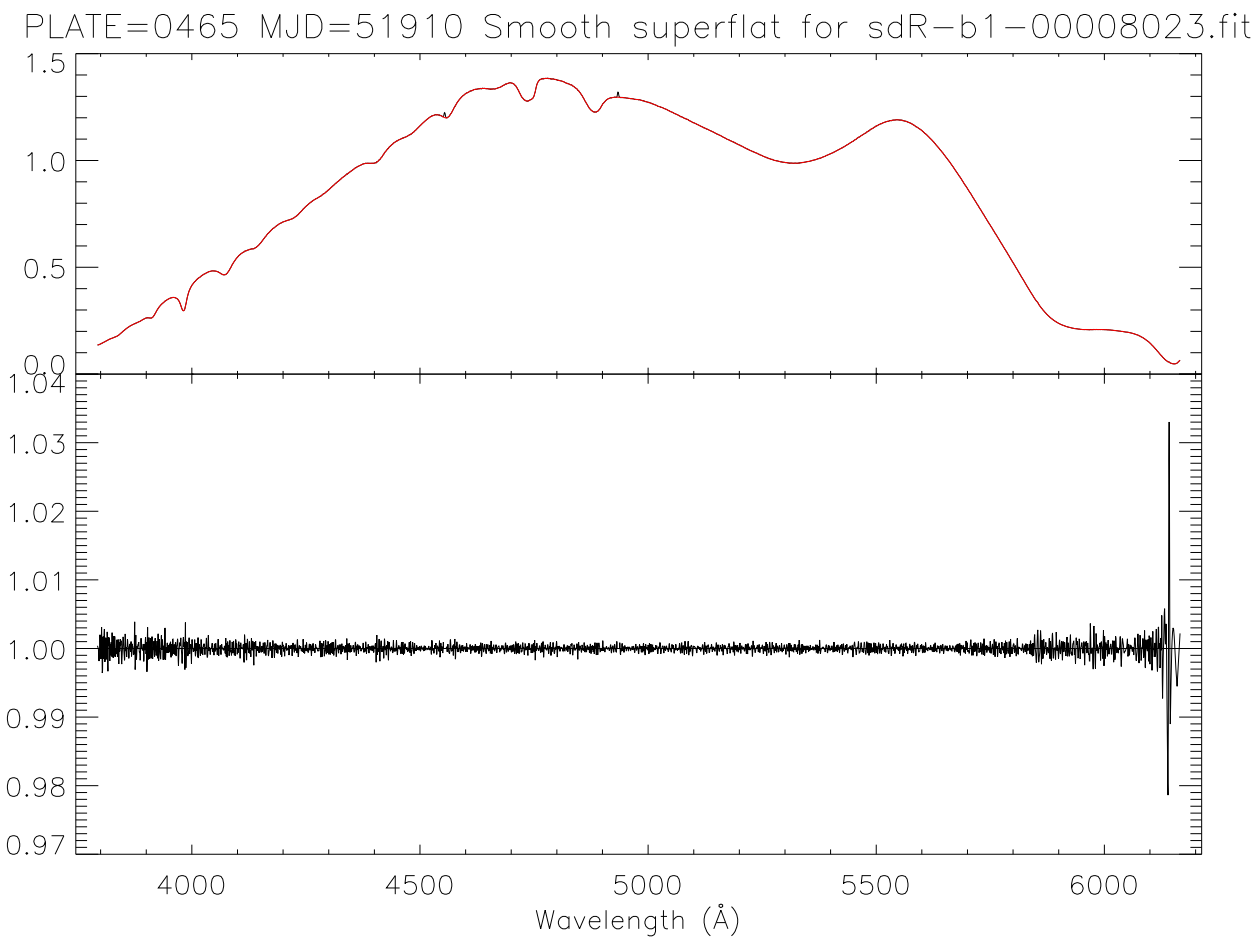

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

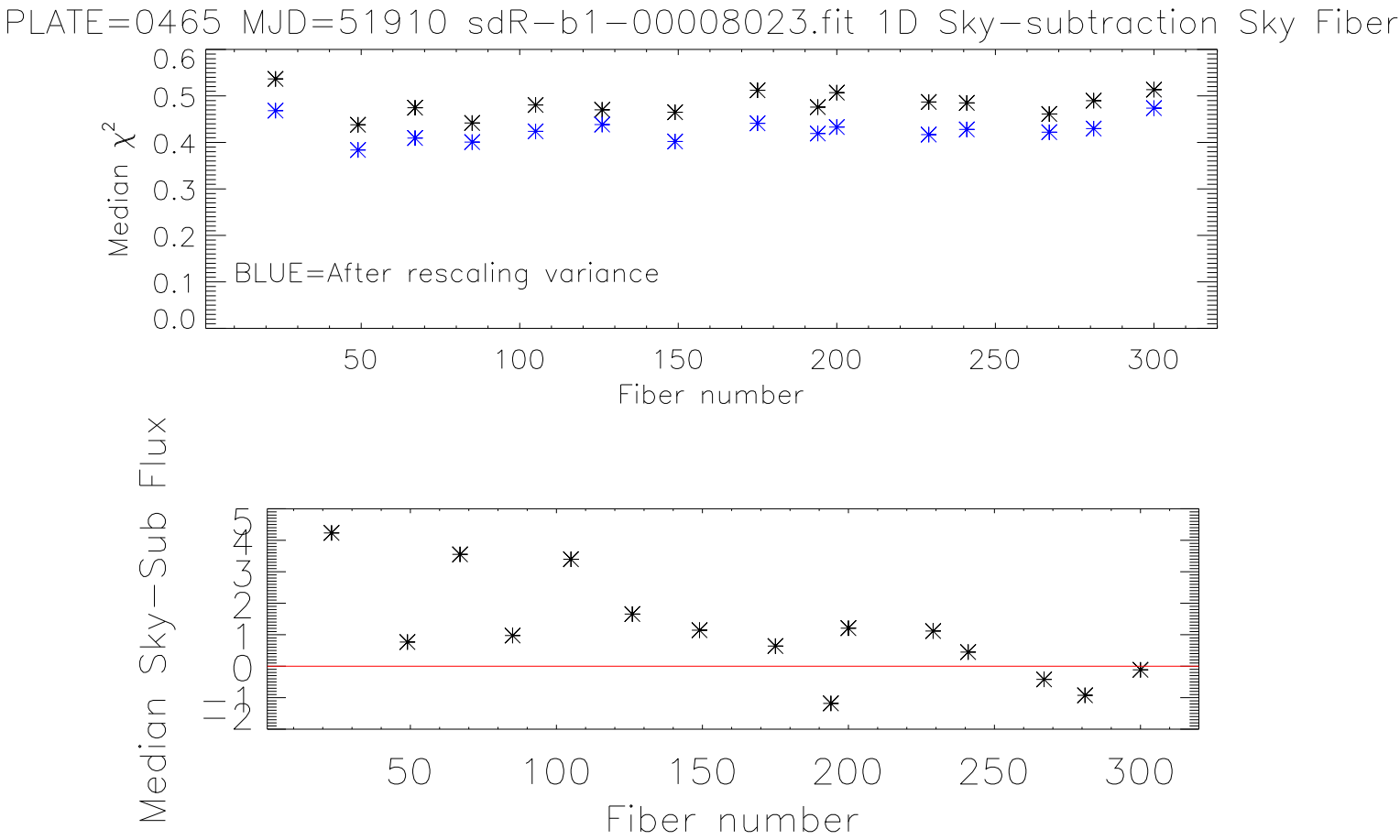

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

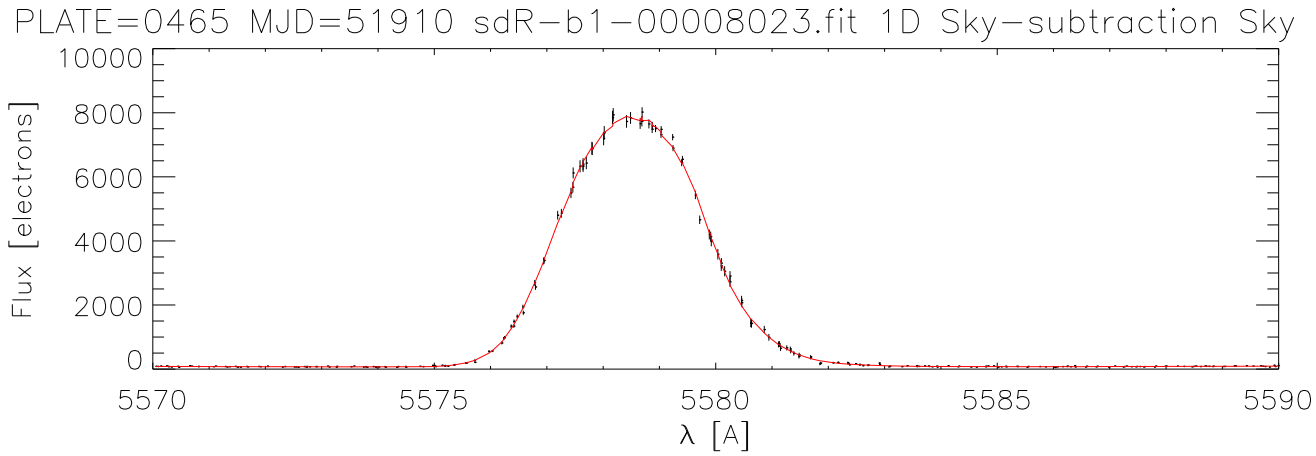

4046.5600
nfib1 16
nfib2 16
stdev 0.120
extra −0.22
4358.3300
nfib1 16
nfib2 16
stdev 0.067
extra −0.31
5460.9400
nfib1 16
nfib2 16
stdev 0.040
extra −0.24
5577.3390
nfib1 16
nfib2 16
stdev 0.011
extra −0.20
5889.9500
nfib1 16
nfib2 16
stdev 0.026
extra −0.12
5895.9240
nfib1 16
nfib2 16
stdev 0.041
extra −0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

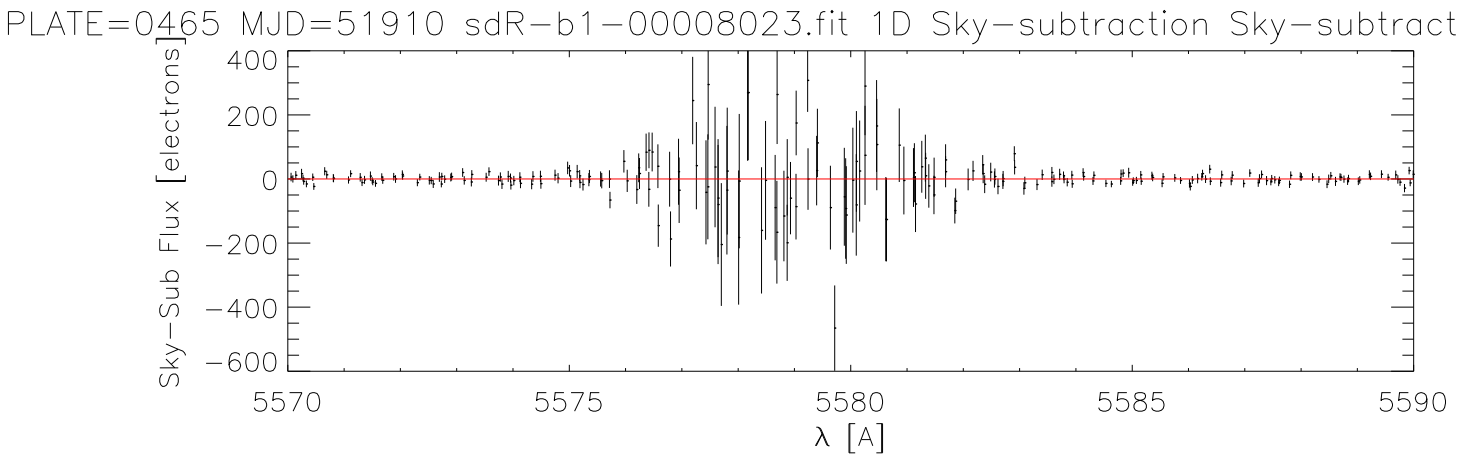

sky shift, pixels
−0.15
−0.20
−0.25
−0.30
−0.35
3500
4000
4500
5000
5500
6000
6500

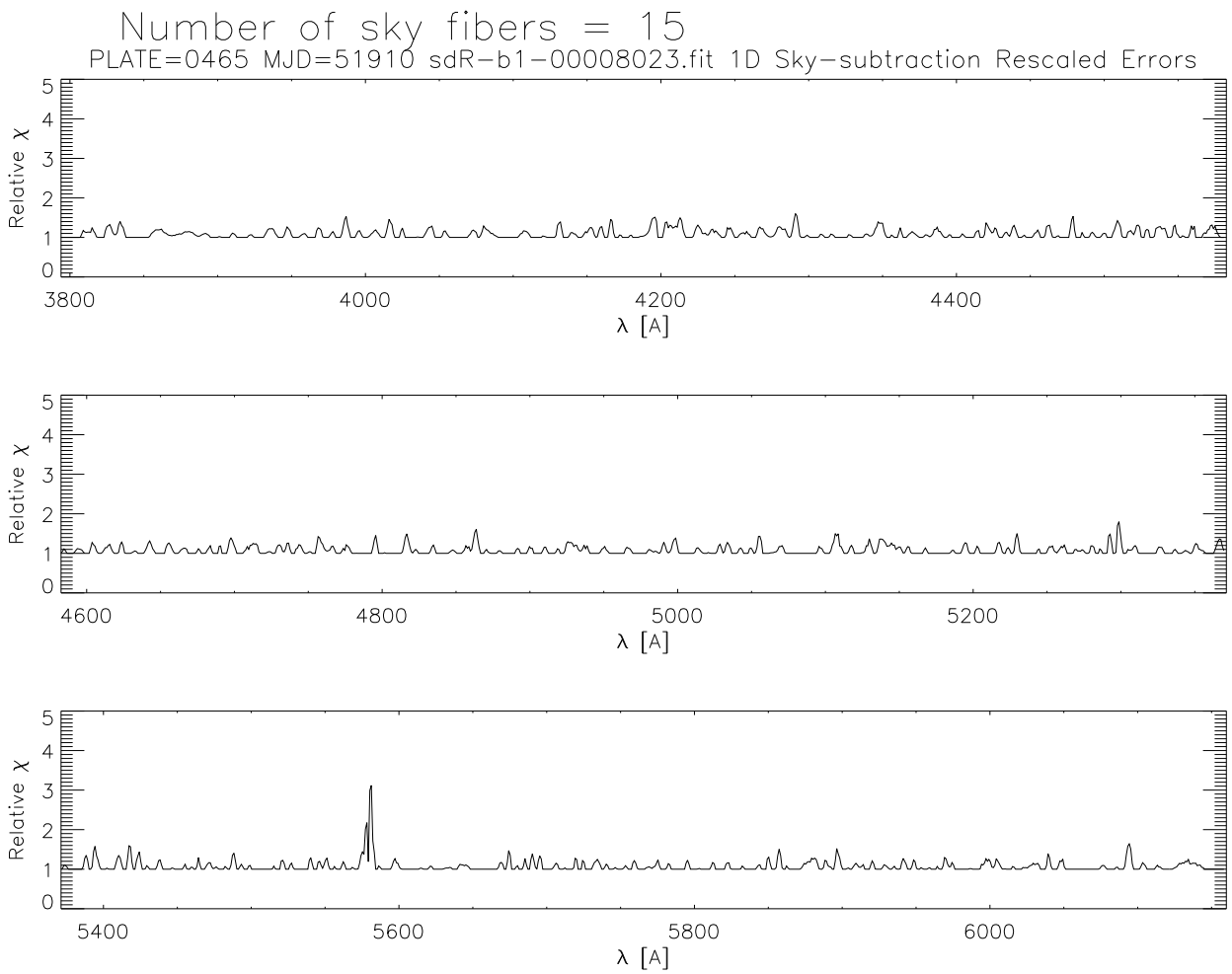
es= 0.0000

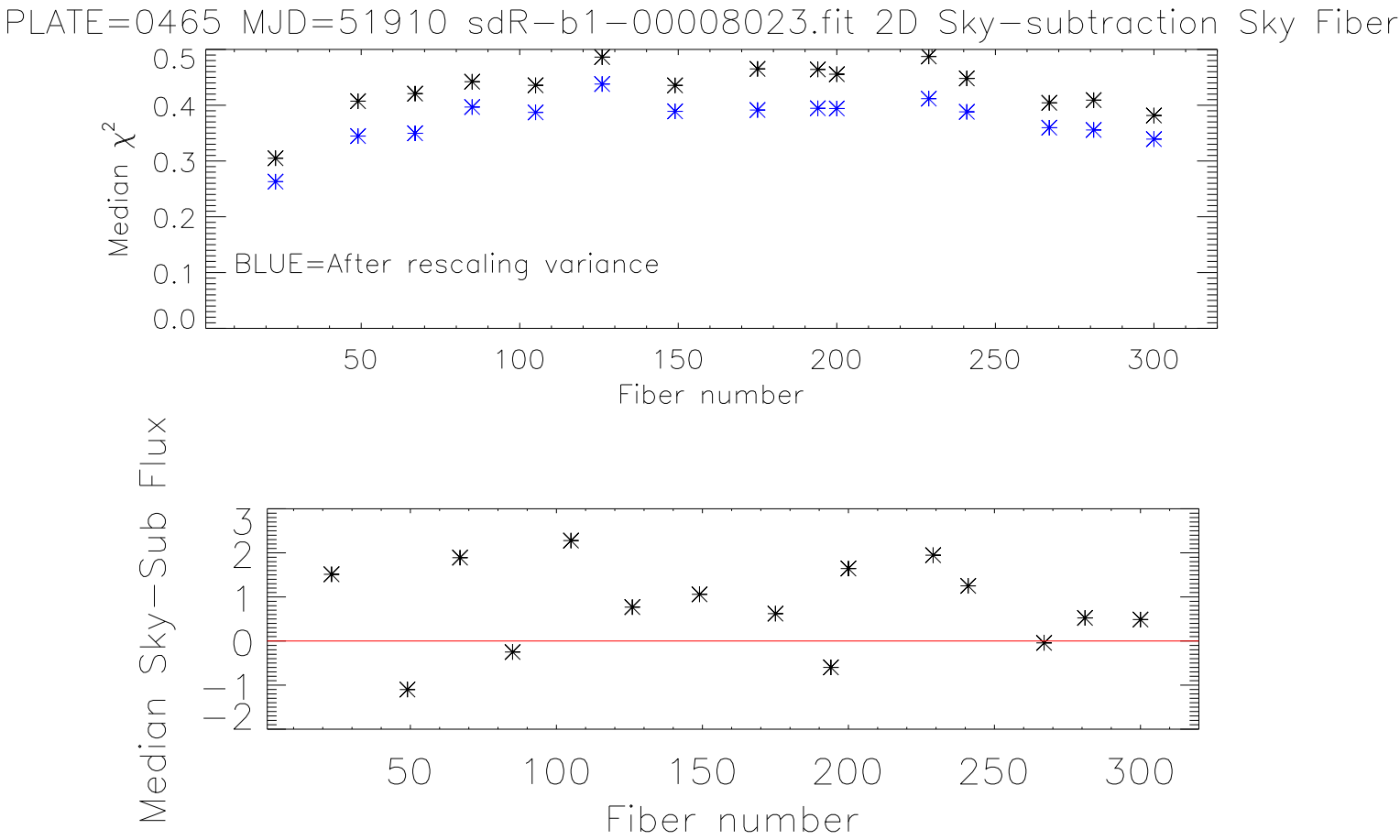

PLATE=0465 MJD=51910 Smooth superflat for sdR-b1-00008023.fit
1.5
1.0
0.5
0.0
1.04
1.03
1.02
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

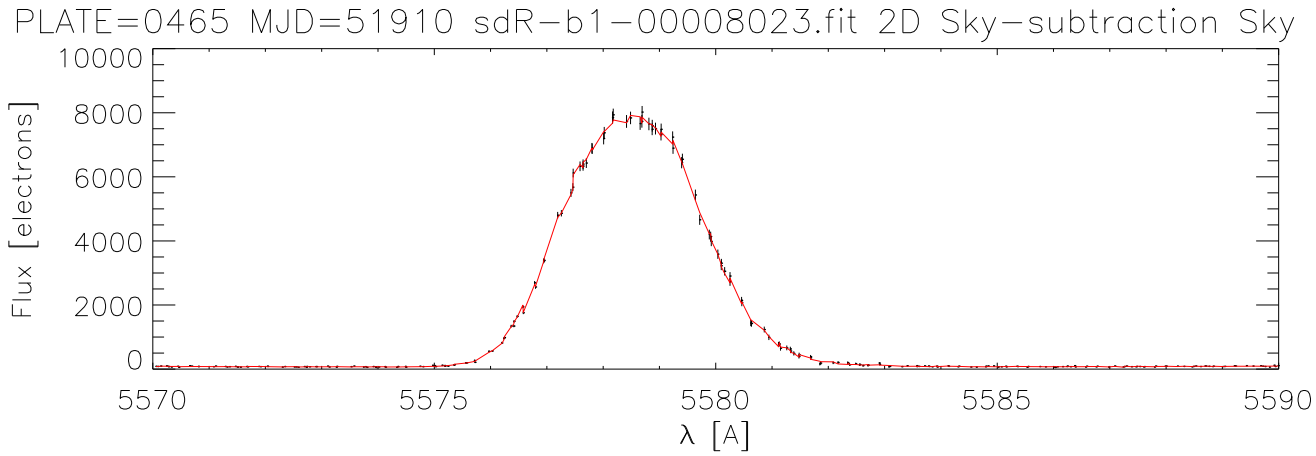

PLATE=0465 MJD=51910 sdR-b1-00008023.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
5
50
100
150
200
250
300
Fiber number

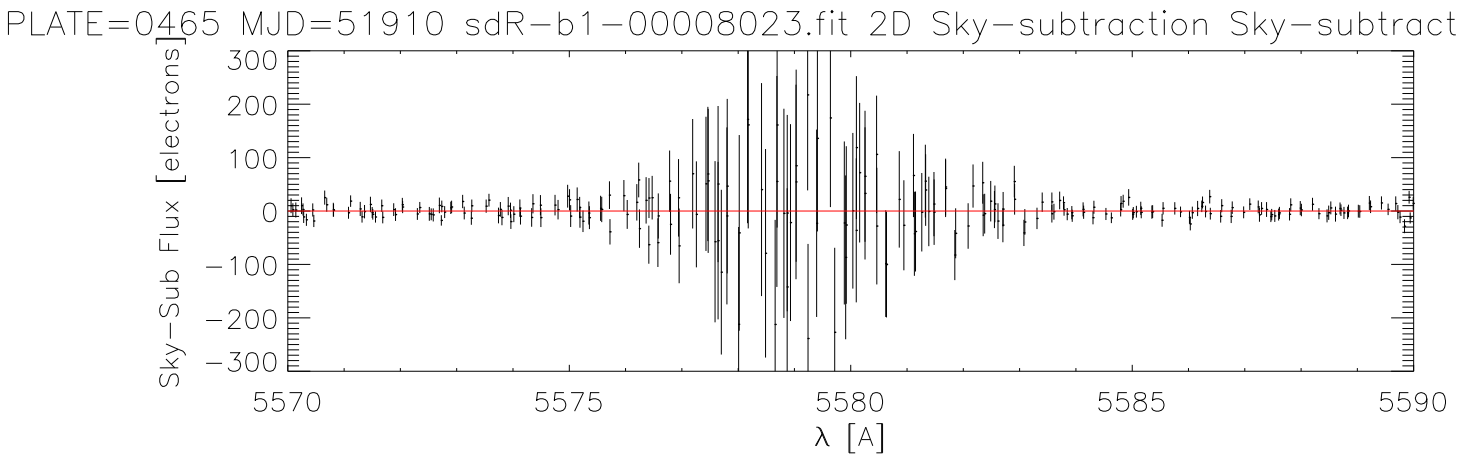

PLATE=0465 MJD=51910 sdR-b1-00008023.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

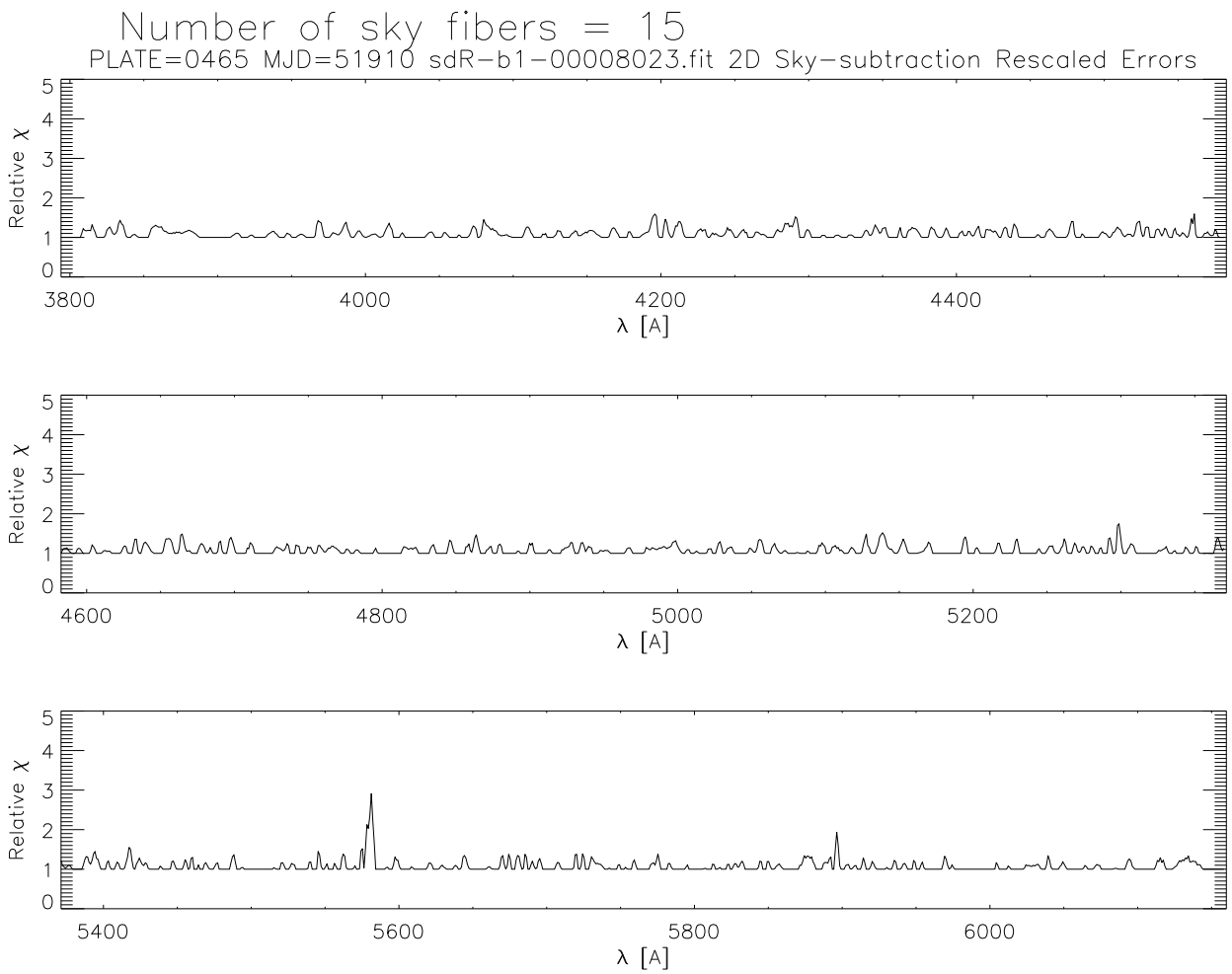

PLATE=0465 MJD=51910 sdR-b1-00008023.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
5570
5575
5580
5585
5590
λ [A]

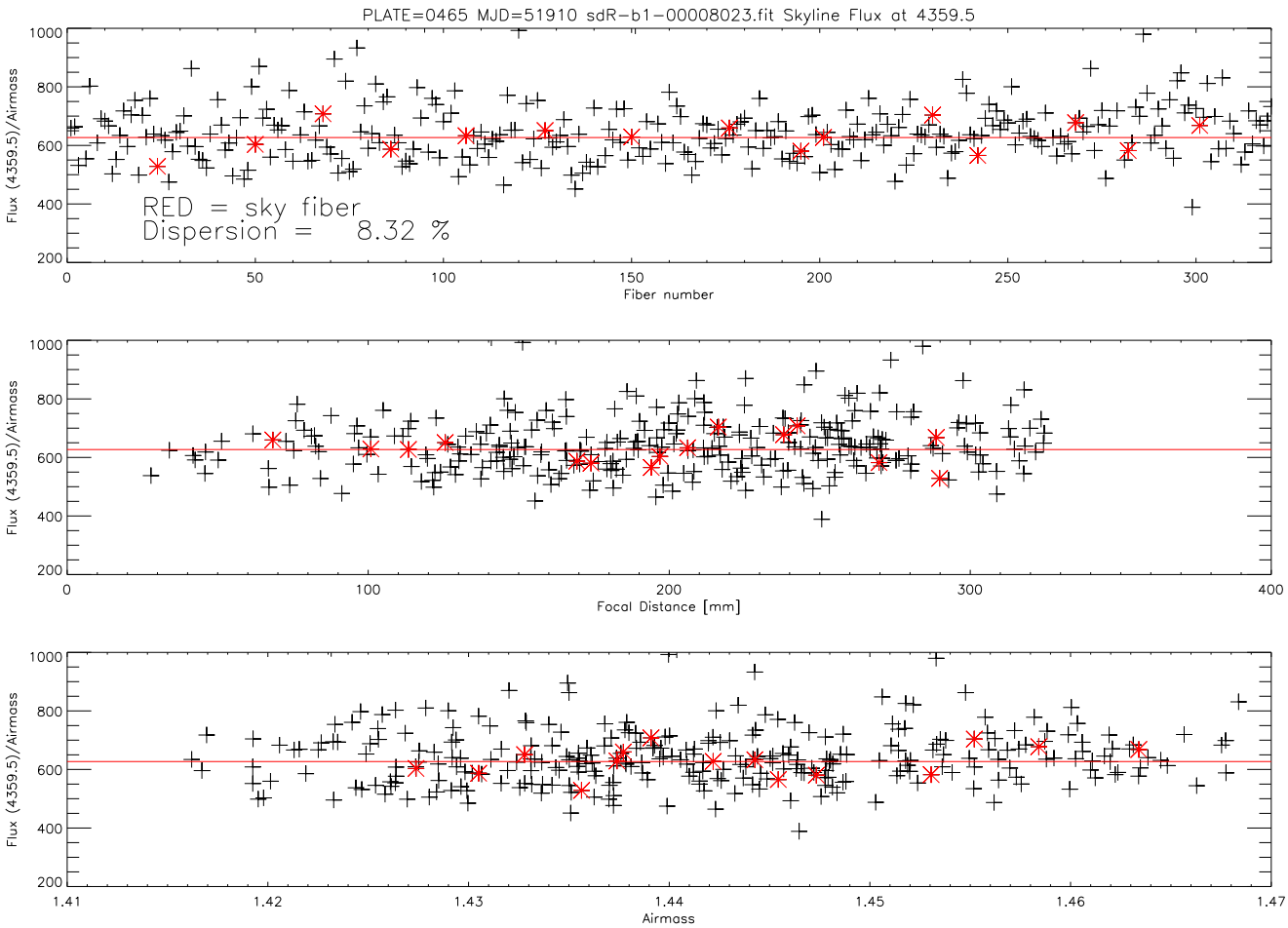

Number of sky fibers = 15
PLATE=0465 MJD=51910 sdR-b1-00008023.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

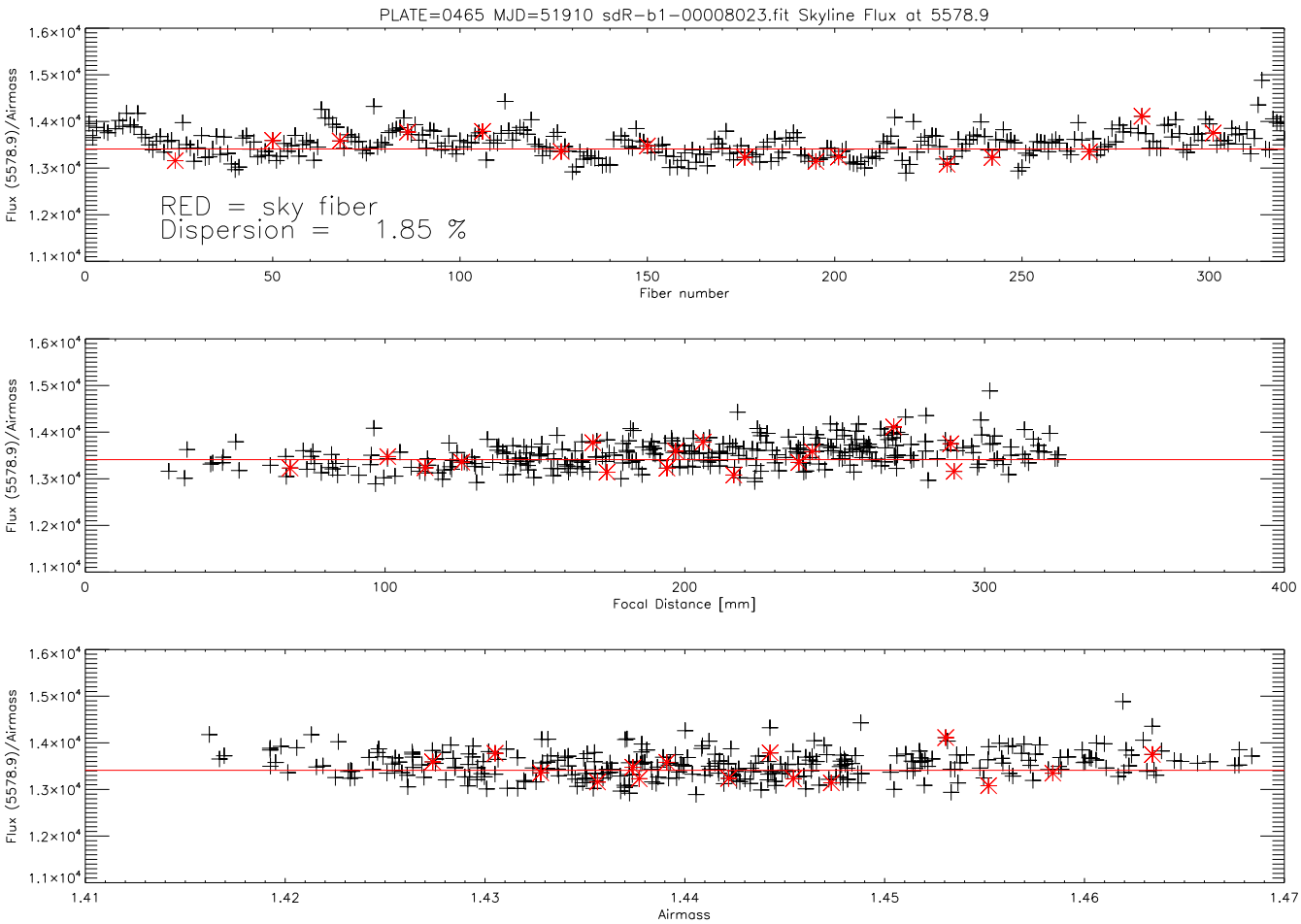

PLATE=0465 MJD=51910 sdR-b1-00008023.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

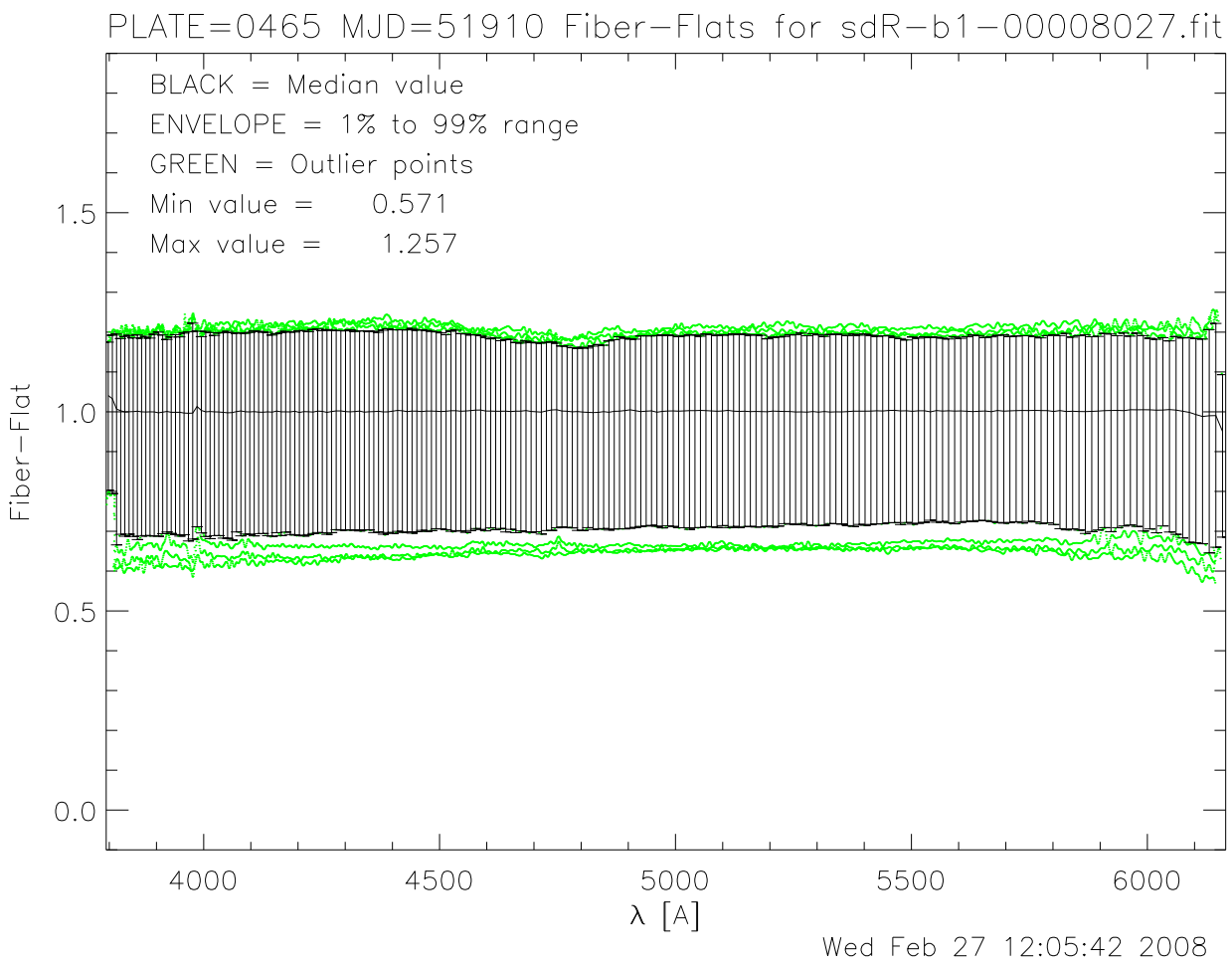

PLATE=0465 MJD=51910 sdR-b1-00008023.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

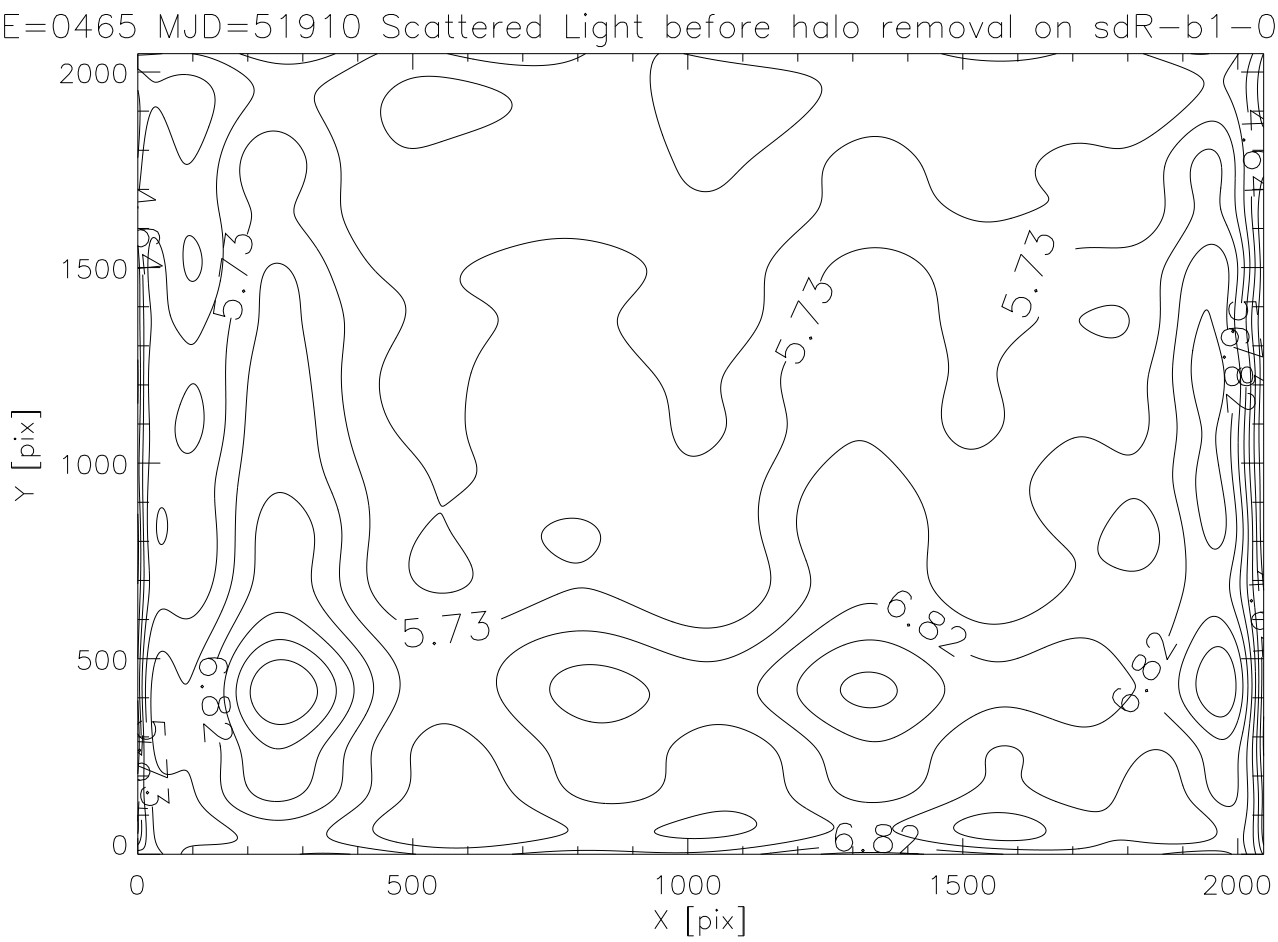

PLATE=0465 MJD=51910 sdR-b1-00008023.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

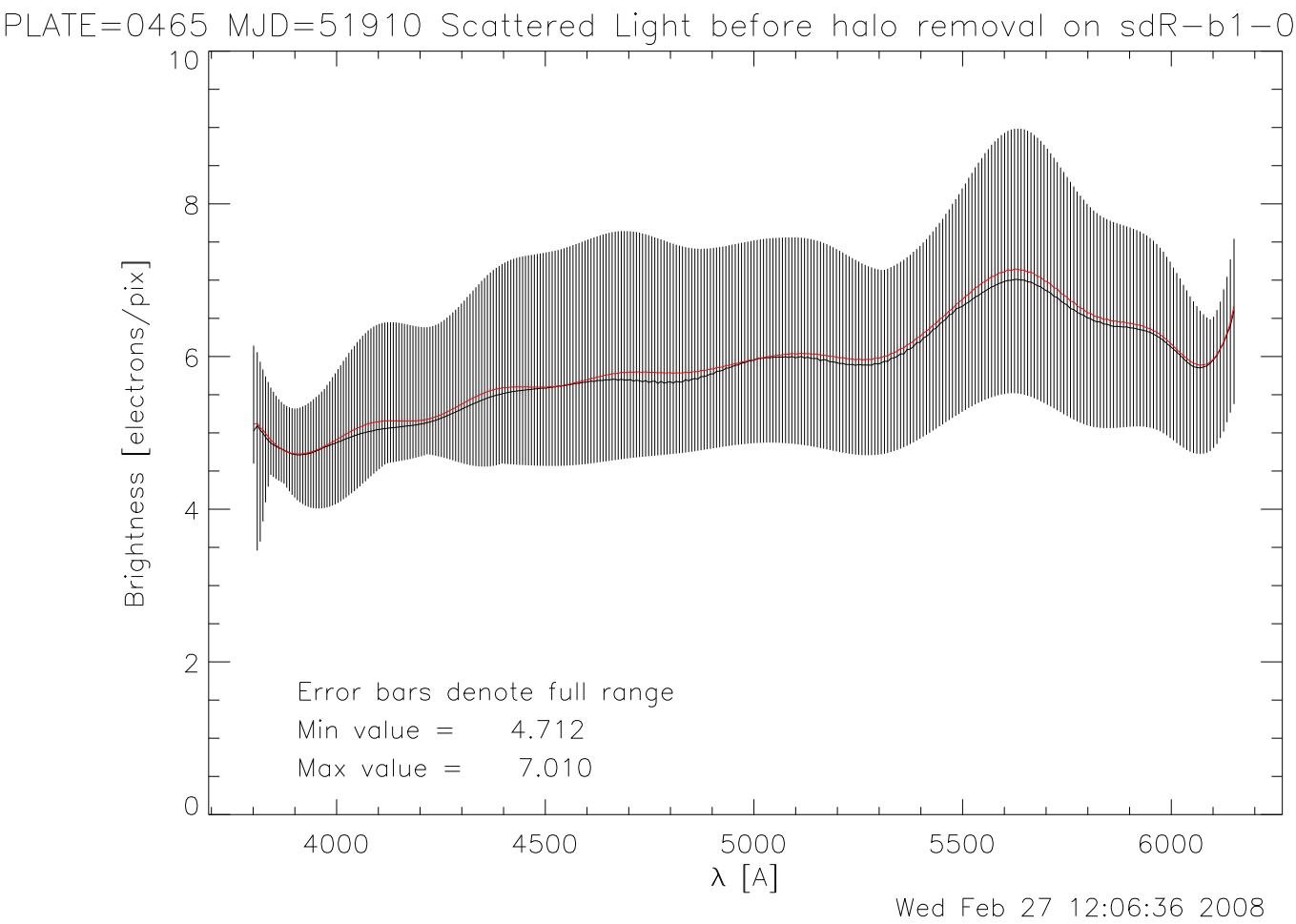

Number of sky fibers = 15
PLATE=0465 MJD=51910 sdR-b1-00008023.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

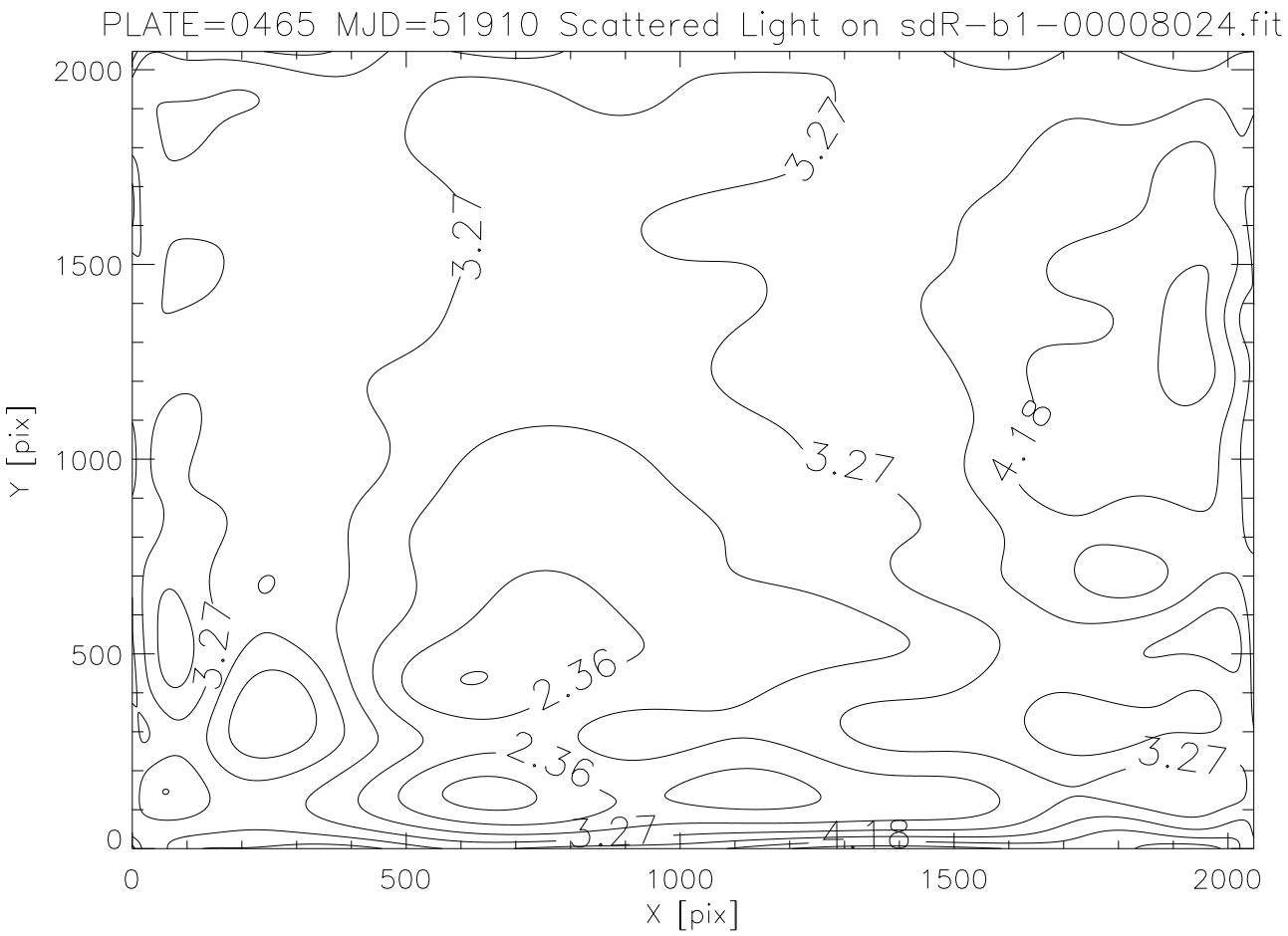

PLATE=0465 MJD=51910 sdR-b1-00008023.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.32 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

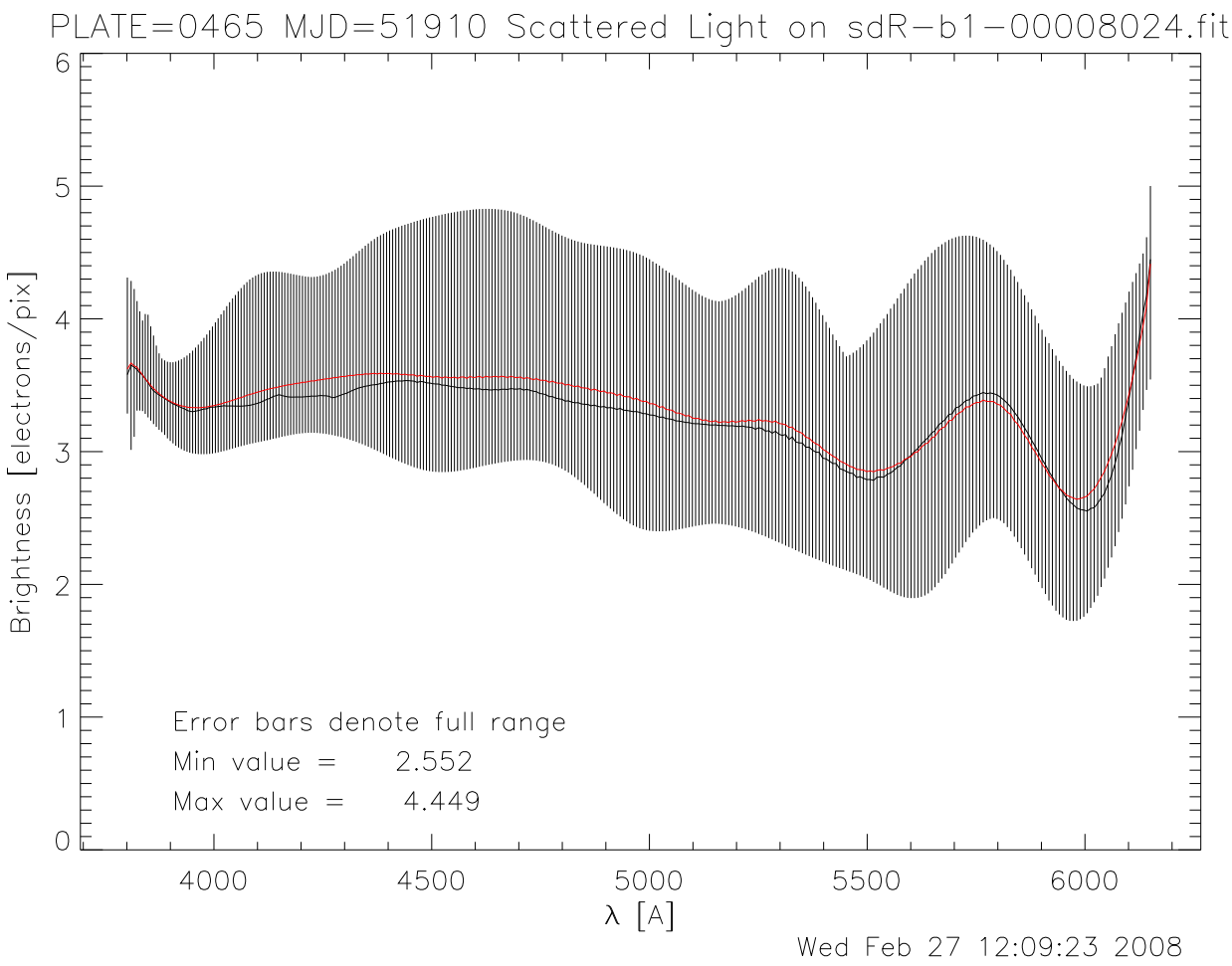

PLATE=0465 MJD=51910 sdR-b1-00008023.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.85 %
Fiber number
Focal Distance [mm]
Airmass

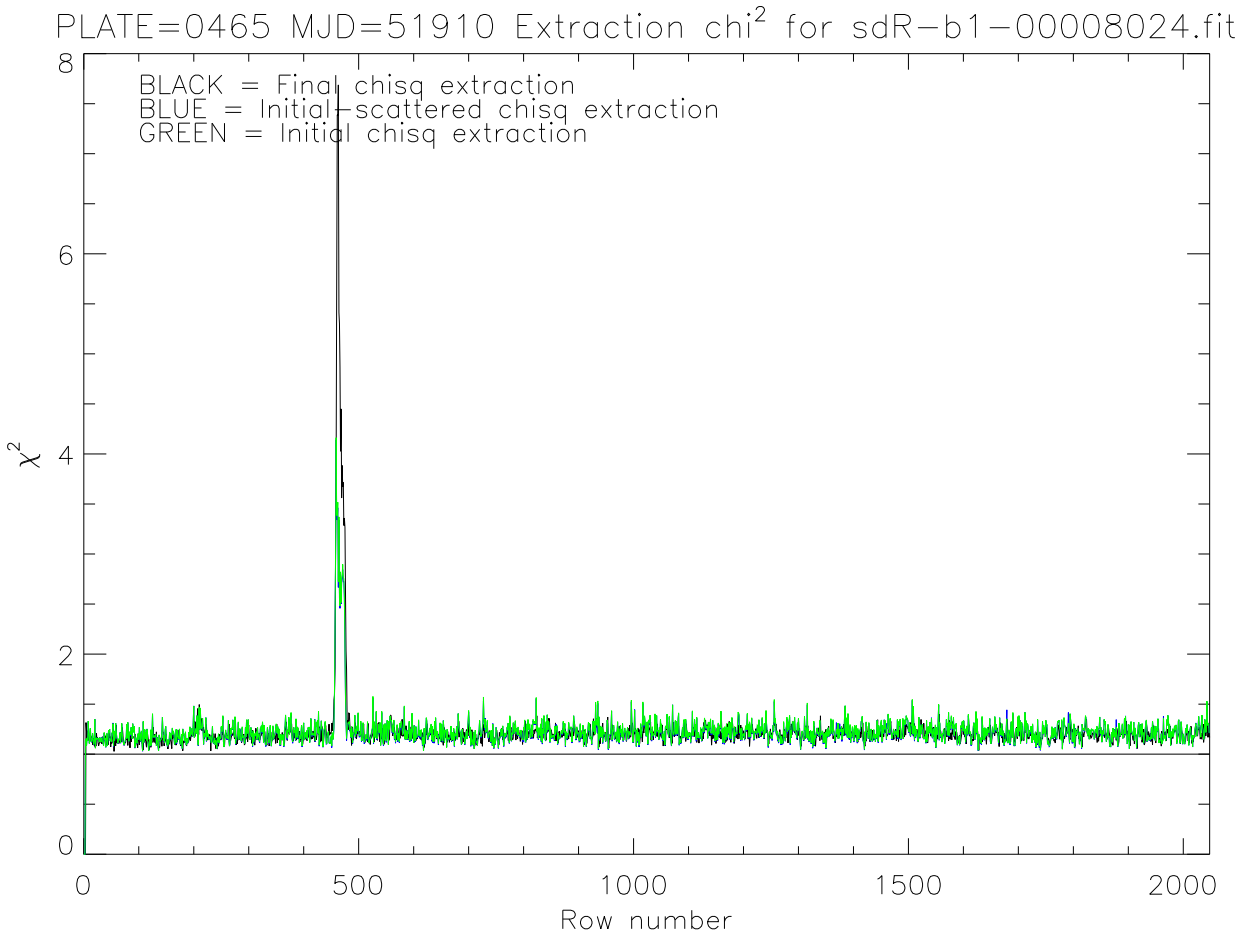

PLATE=0465 MJD=51910 Fiber-Flats for sdR-b1-00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.571
Max value = 1.257
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:05:42 2008

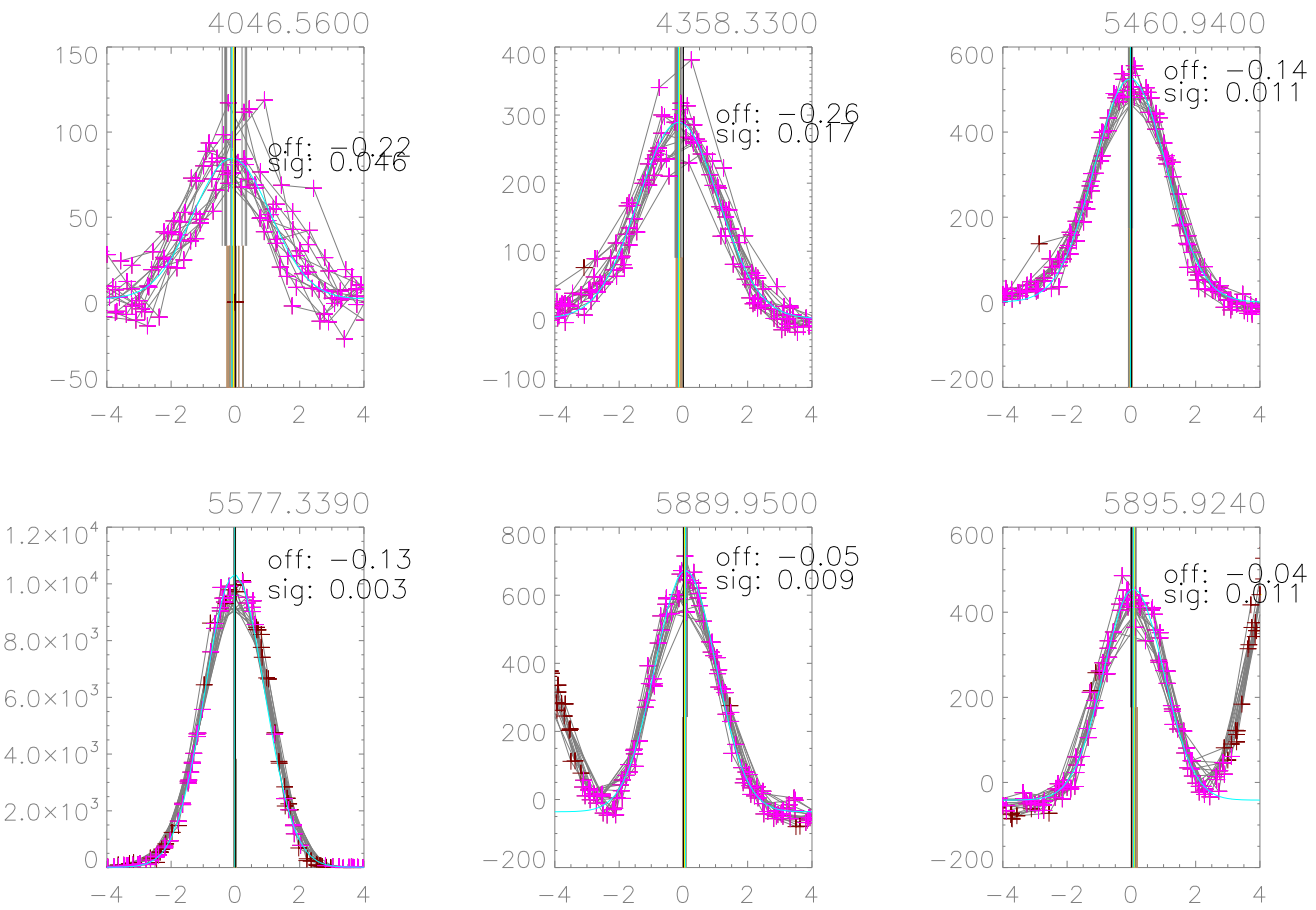

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR−b1−00008024.f
Y [pix]
X [pix]
0
500
1000
1500
2000
5.73
6.82

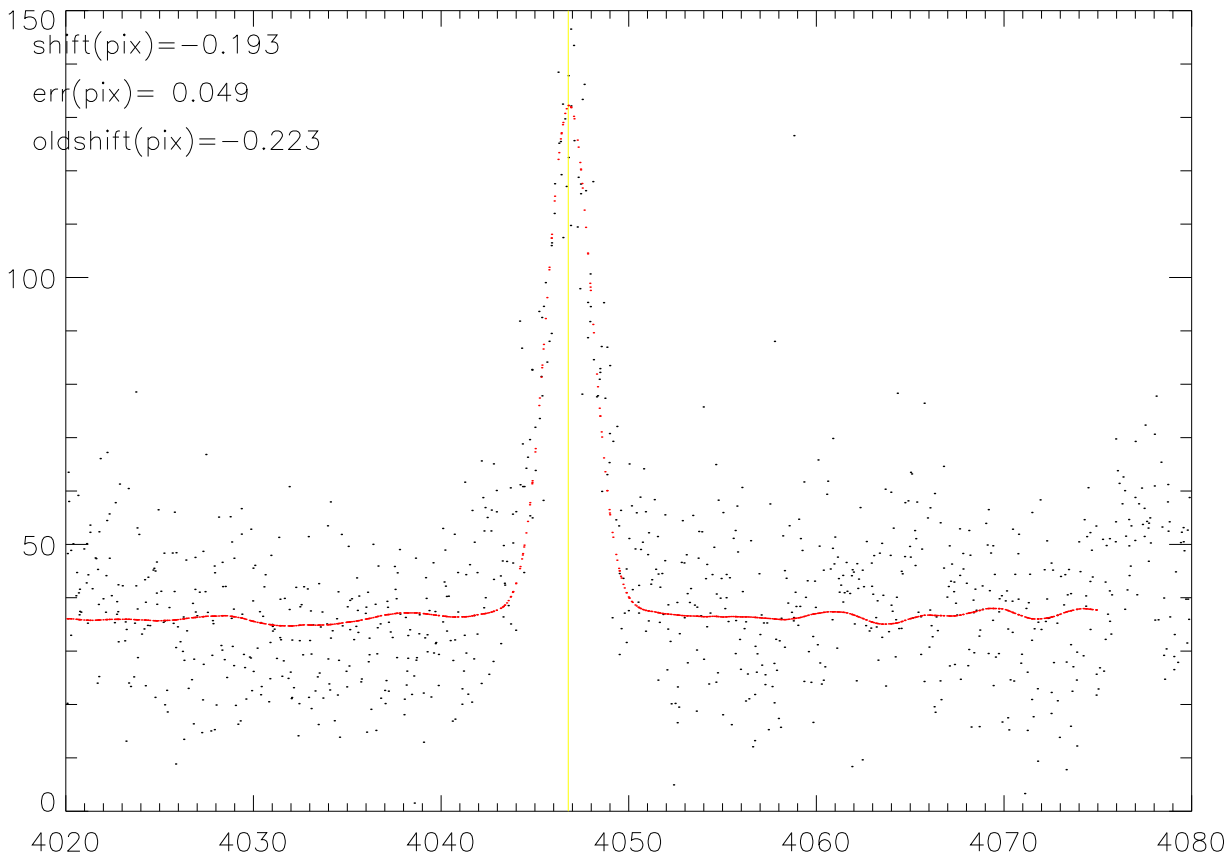

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-b1-00008024.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.712
Max value = 7.010
Wed Feb 27 12:06:36 2008

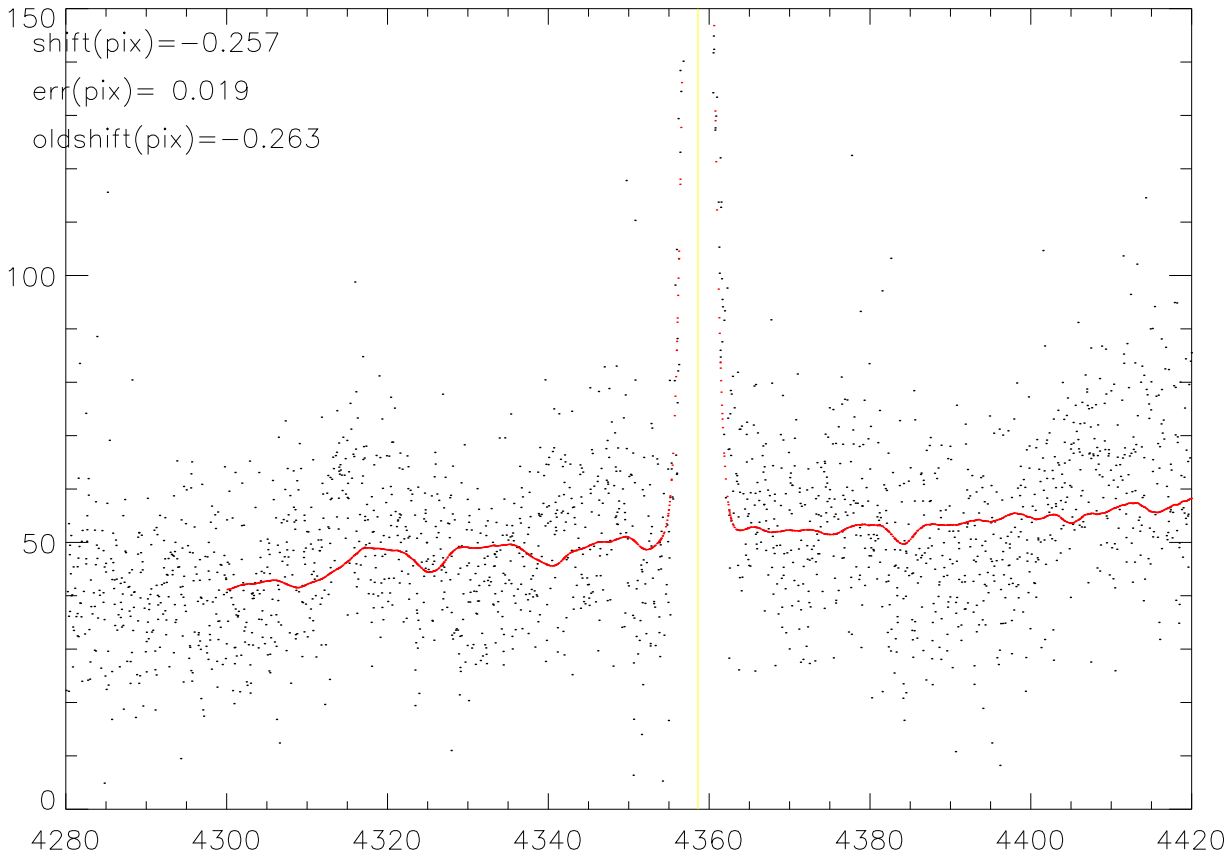

PLATE=0465 MJD=51910 Scattered Light on sdR-b1-00008024.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.27
2.36
4.18

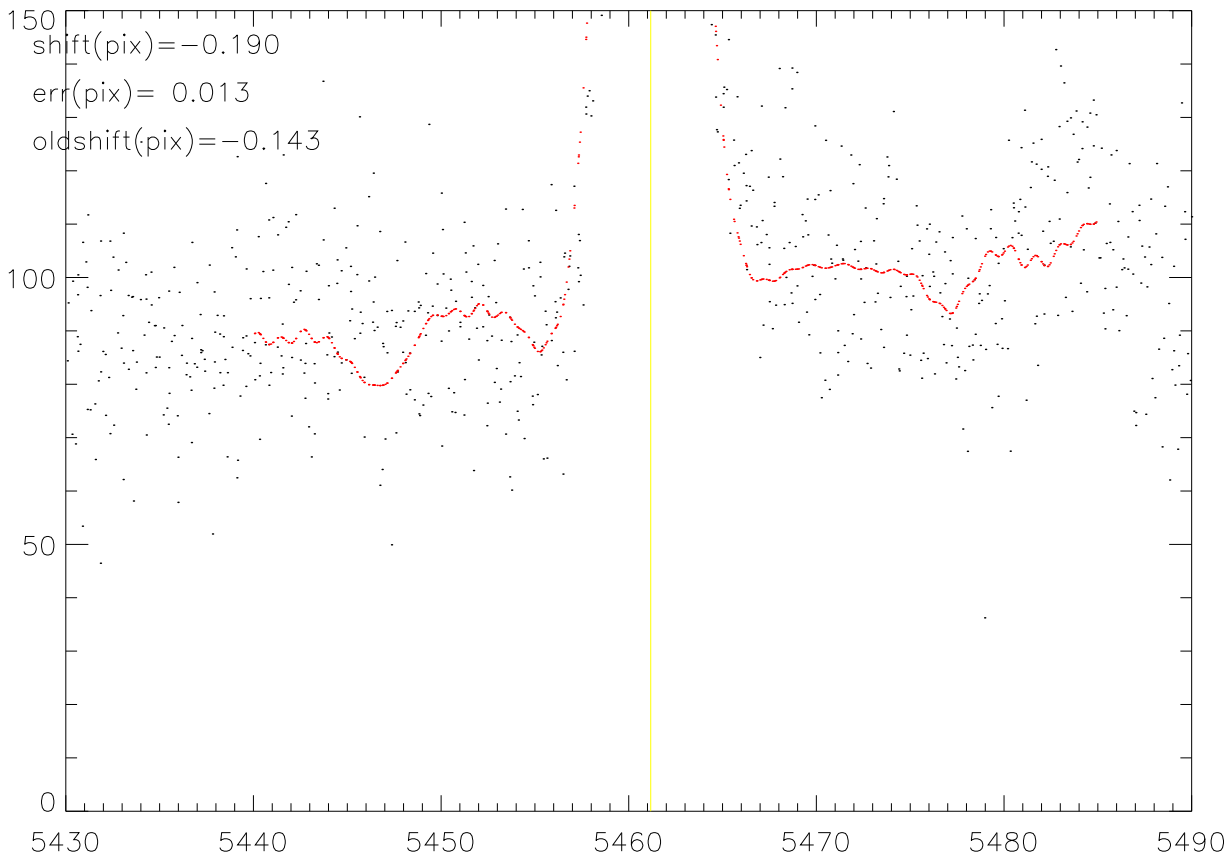

PLATE=0465 MJD=51910 Scattered Light on sdR-b1-00008024.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.552
Max value = 4.449
Wed Feb 27 12:09:23 2008

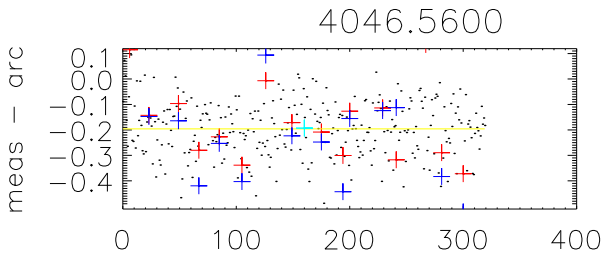

PLATE=0465 MJD=51910 Extraction chi^2 for sdR-b1-00008024.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

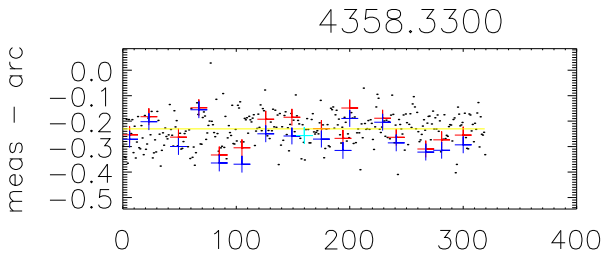

4046.5600
off: −0.22
sig: 0.046
4358.3300
off: −0.26
sig: 0.017
5460.9400
off: −0.14
sig: 0.011
5577.3390
off: −0.13
sig: 0.003
5889.9500
off: −0.05
sig: 0.009
5895.9240
off: −0.04
sig: 0.011

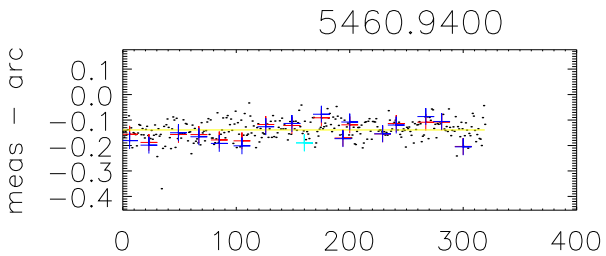

shift(pix)=−0.193
err(pix)= 0.049
oldshift(pix)=−0.223
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

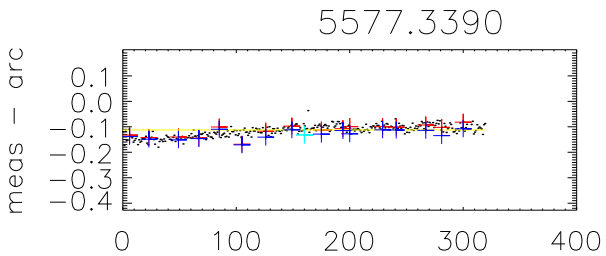

shift(pix)=−0.257
err(pix)= 0.019
oldshift(pix)=−0.263
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

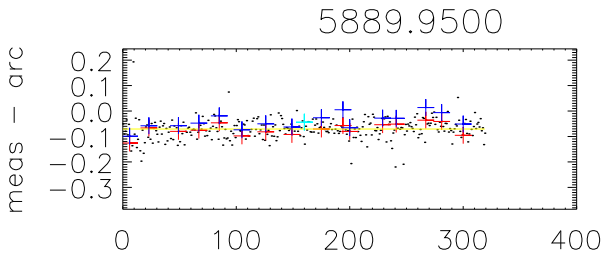

shift(pix)=−0.190
err(pix)= 0.013
oldshift(pix)=−0.143
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

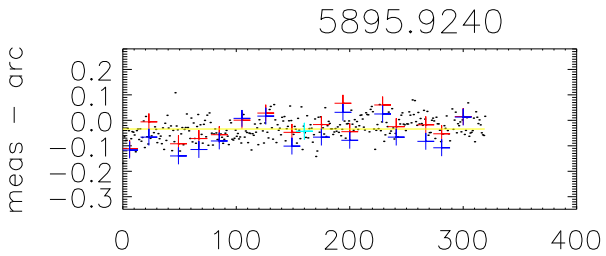

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

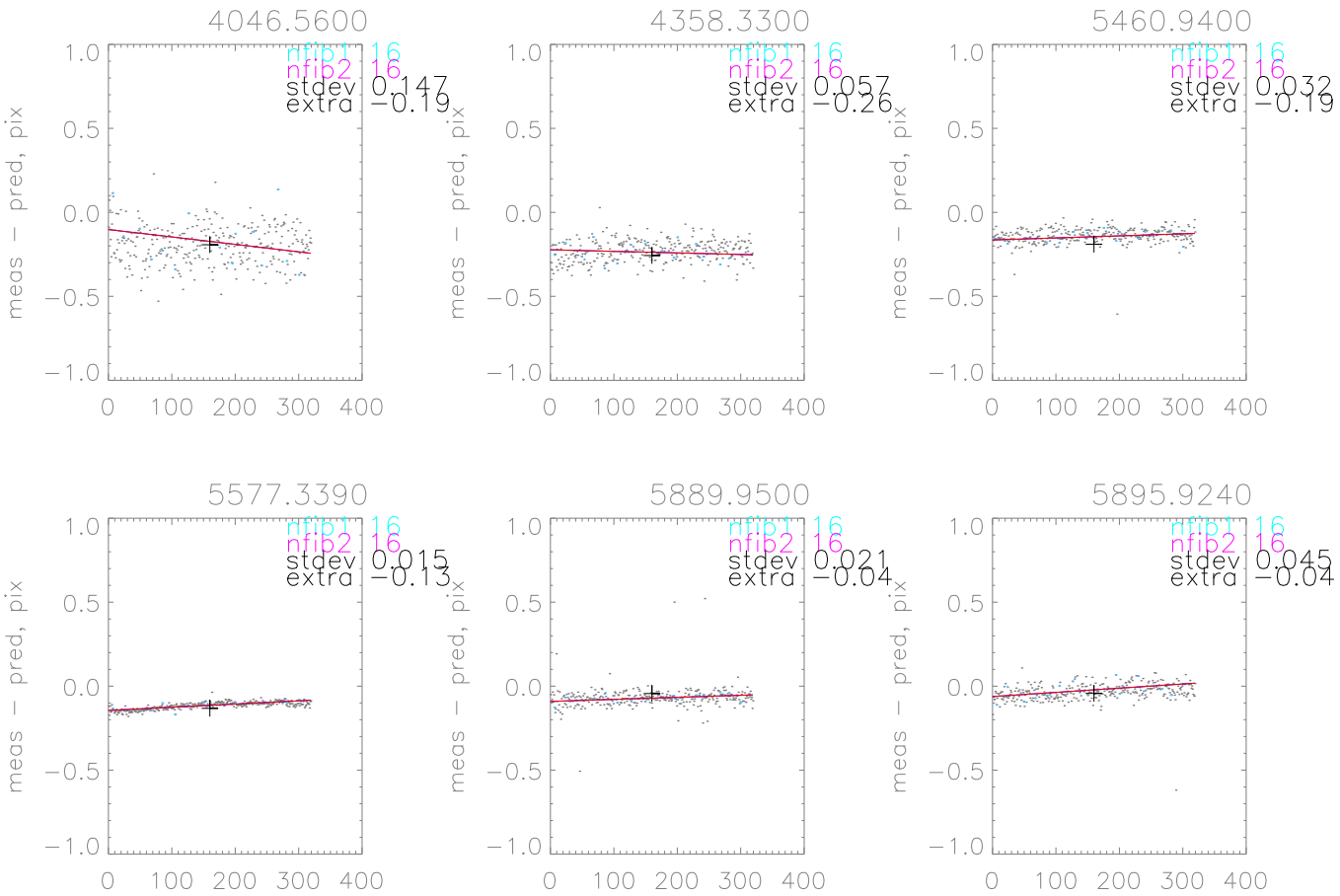

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

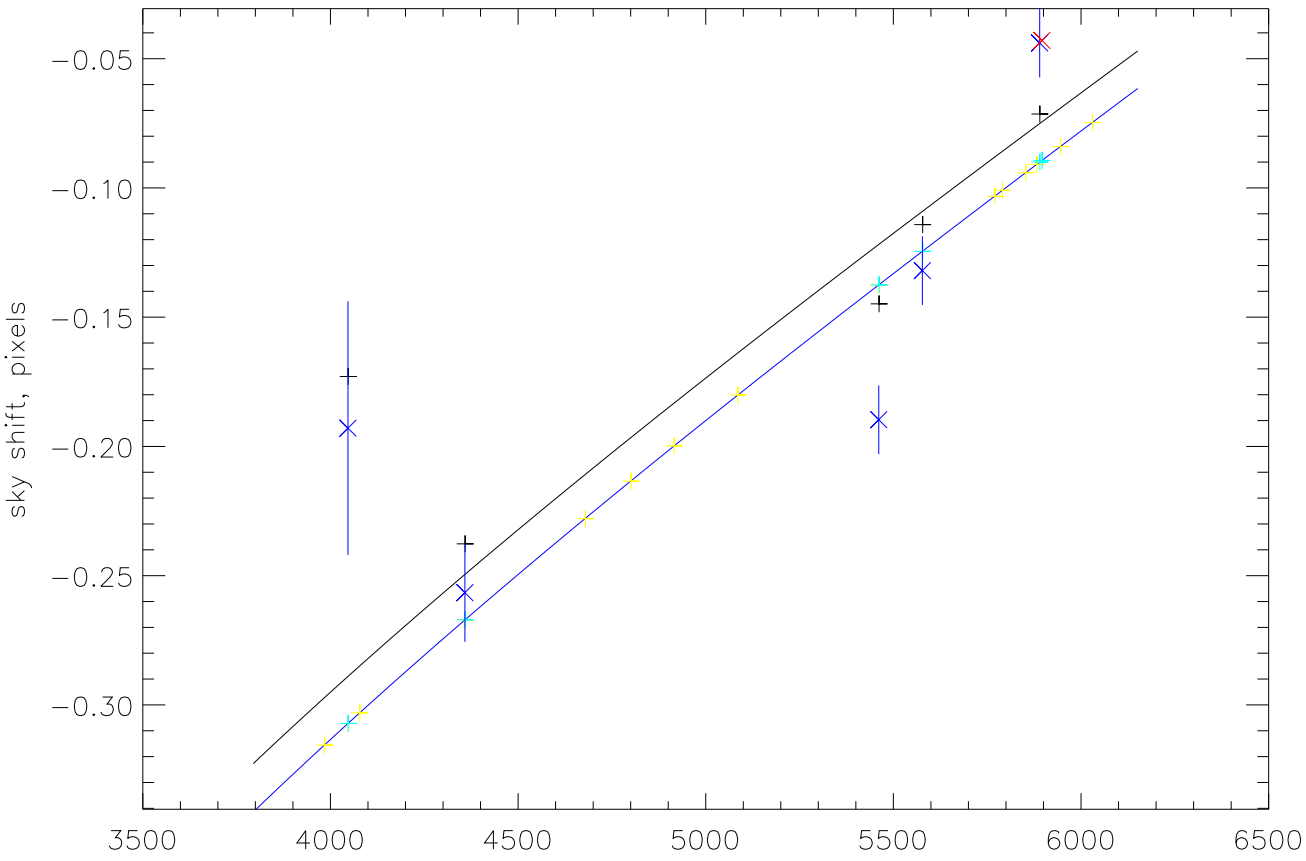

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

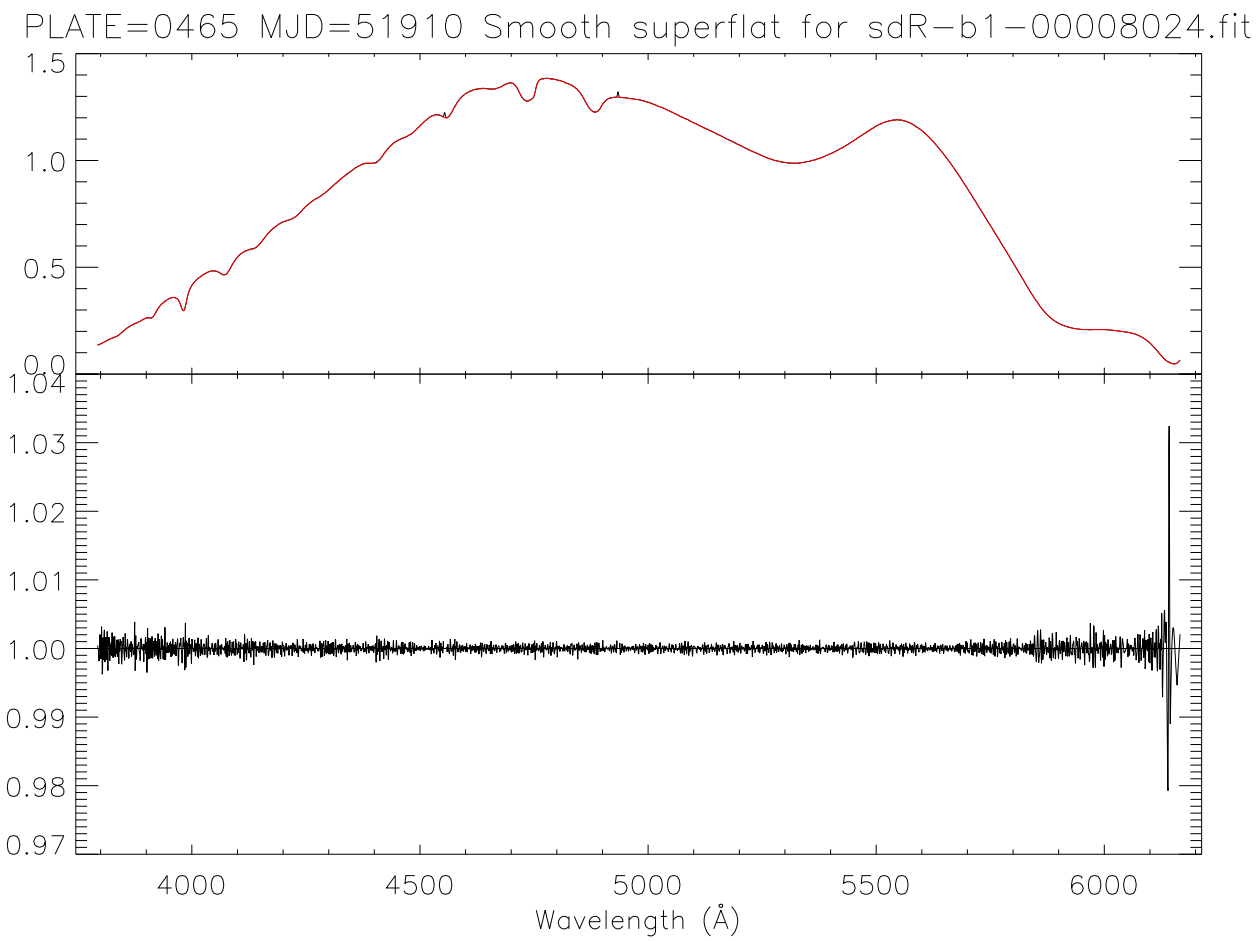

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

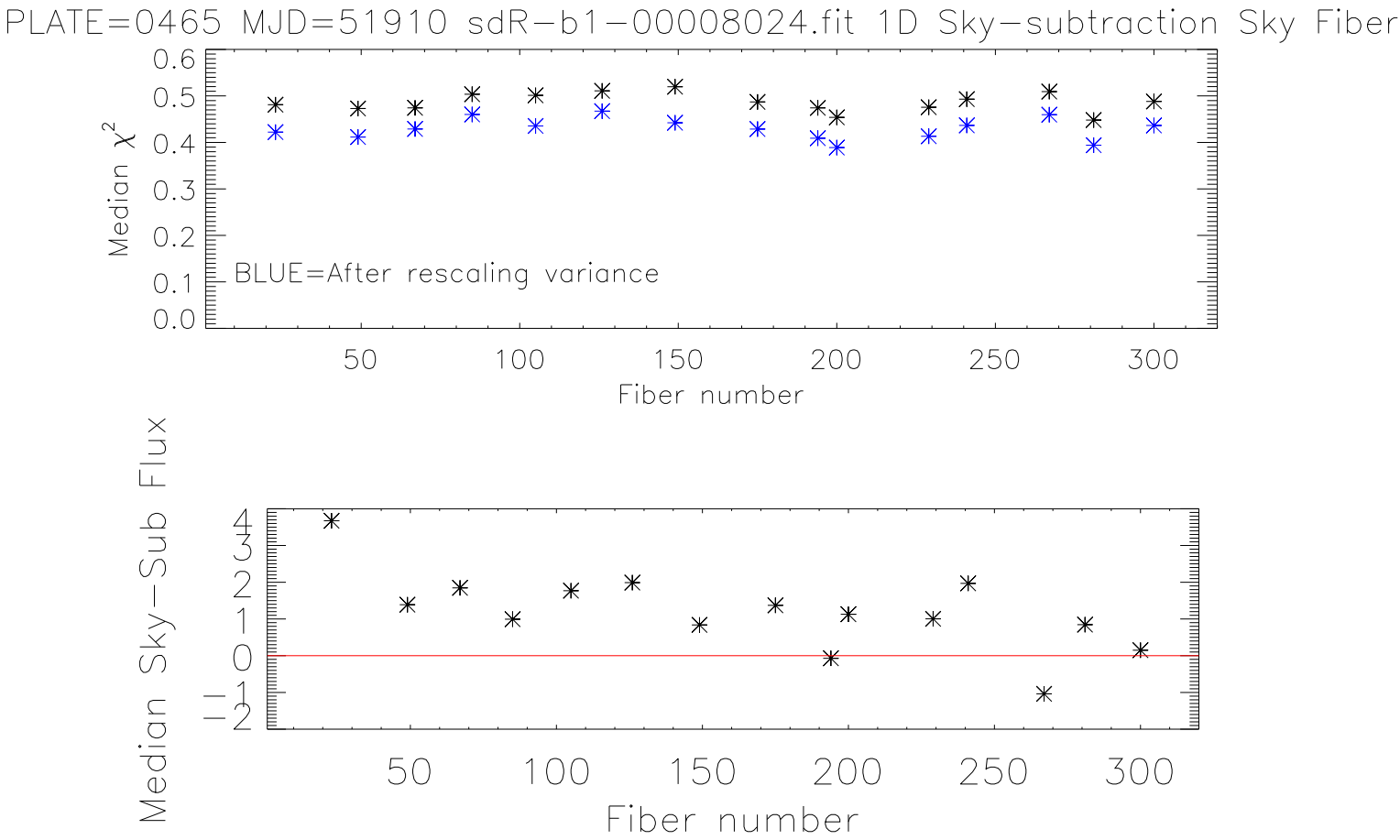

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

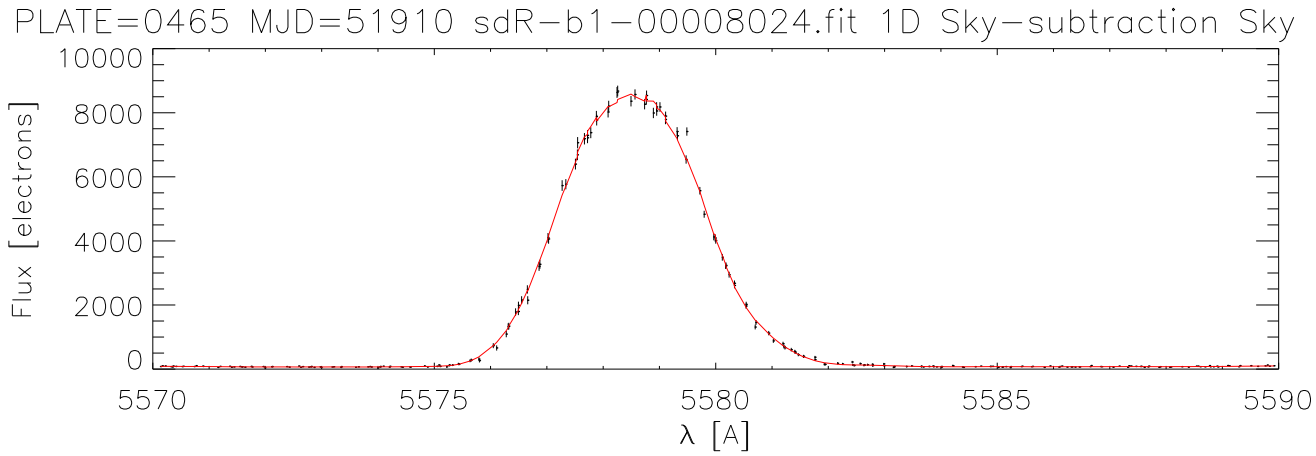

4046.5600
nfib1 16
nfib2 16
stdev 0.147
extra −0.19
4358.3300
nfib1 16
nfib2 16
stdev 0.057
extra −0.26
5460.9400
nfib1 16
nfib2 16
stdev 0.032
extra −0.19
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra −0.13
5889.9500
nfib1 16
nfib2 16
stdev 0.021
extra −0.04
5895.9240
nfib1 16
nfib2 16
stdev 0.045
extra −0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

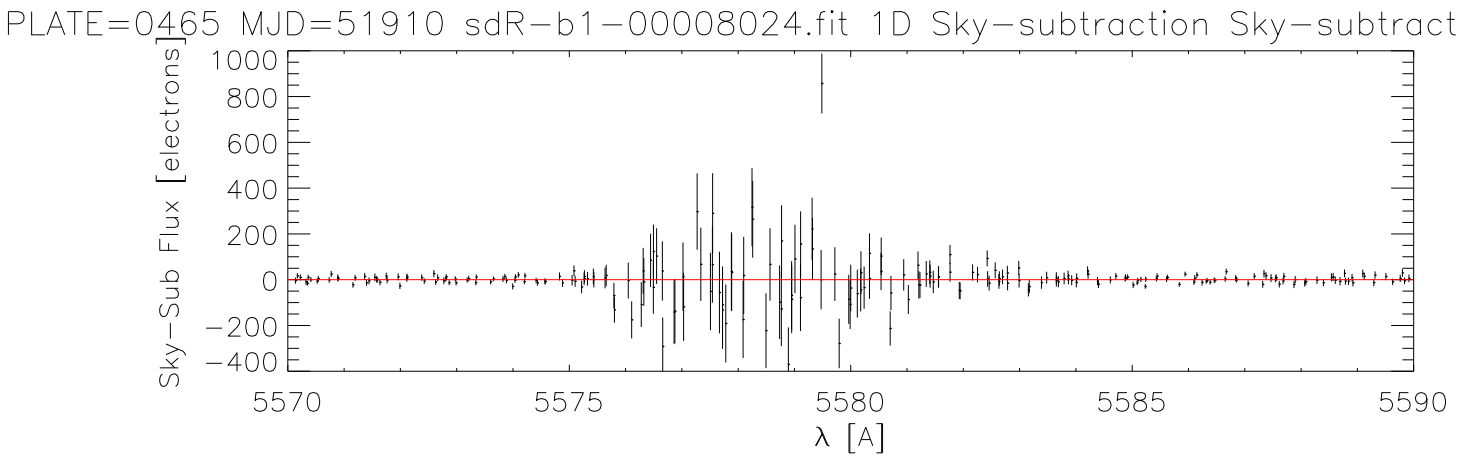

−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

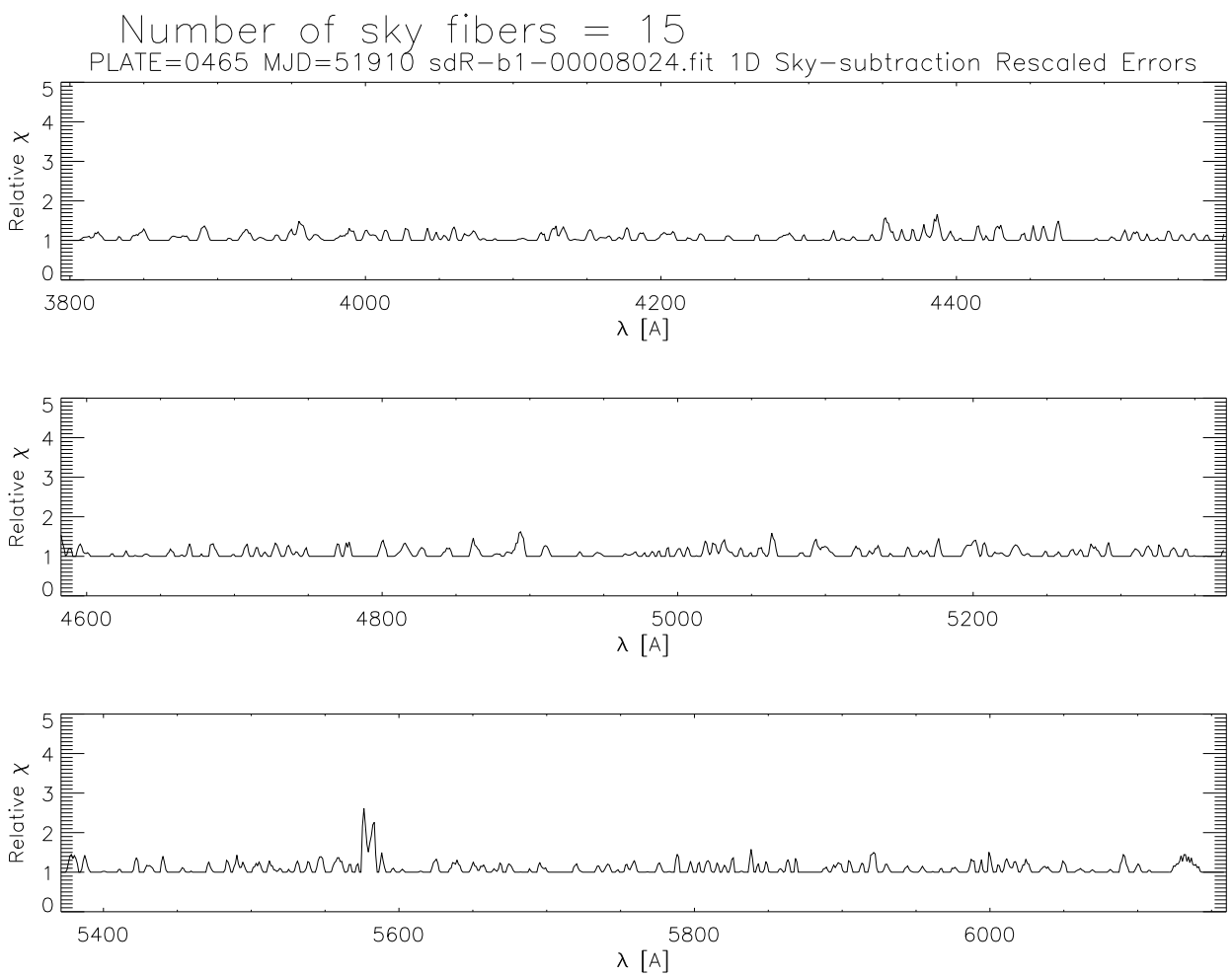
es= 0.0000

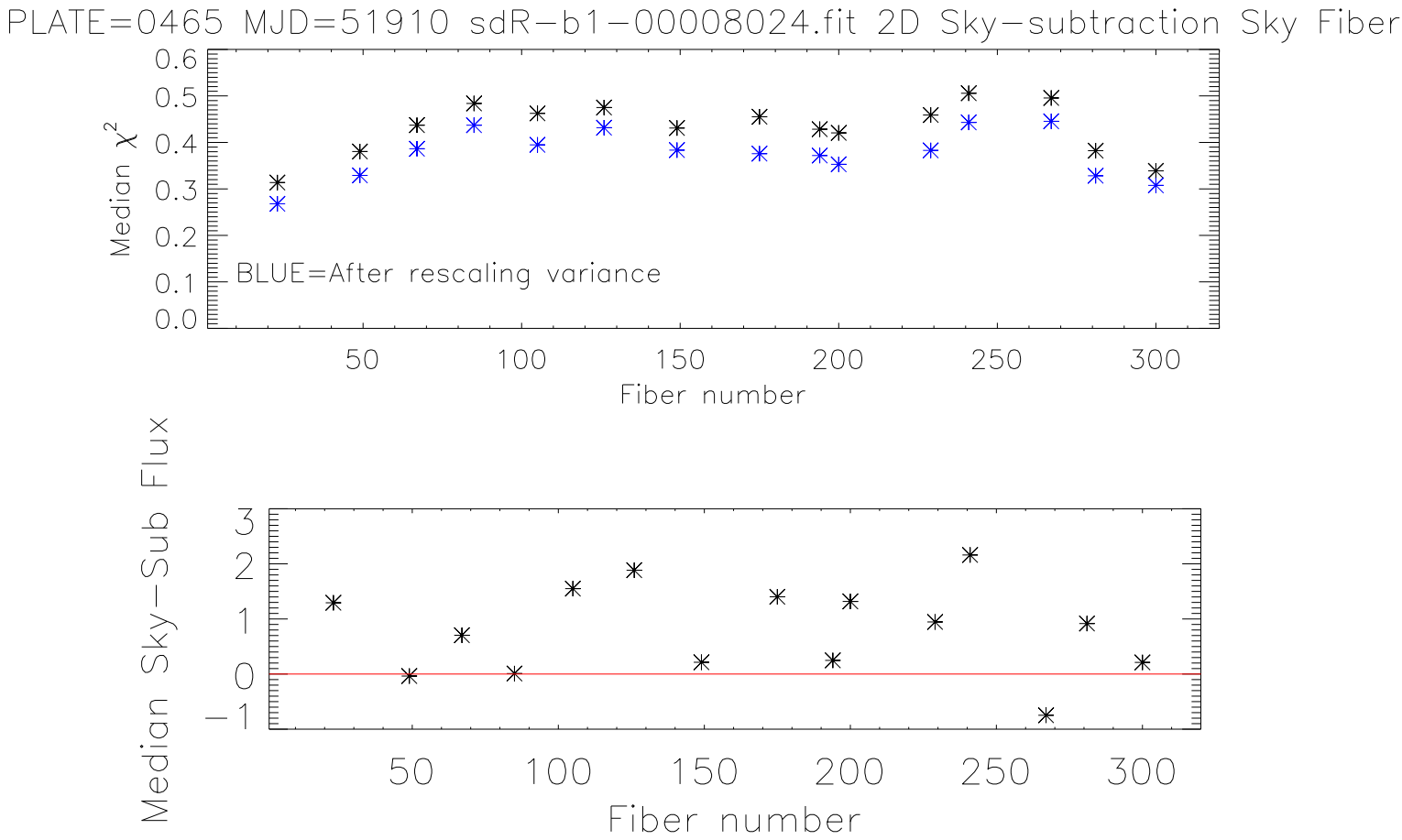

PLATE=0465 MJD=51910 Smooth superflat for sdR-b1-00008024.fit
1.5
1.0
0.5
0.0
1.04
1.03
1.02
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

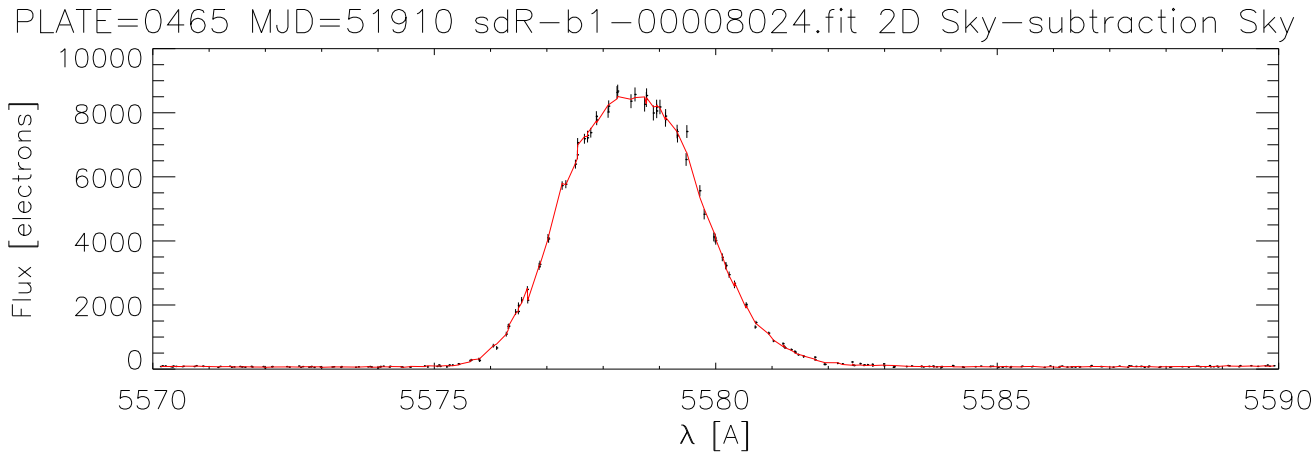

PLATE=0465 MJD=51910 sdR-b1-00008024.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

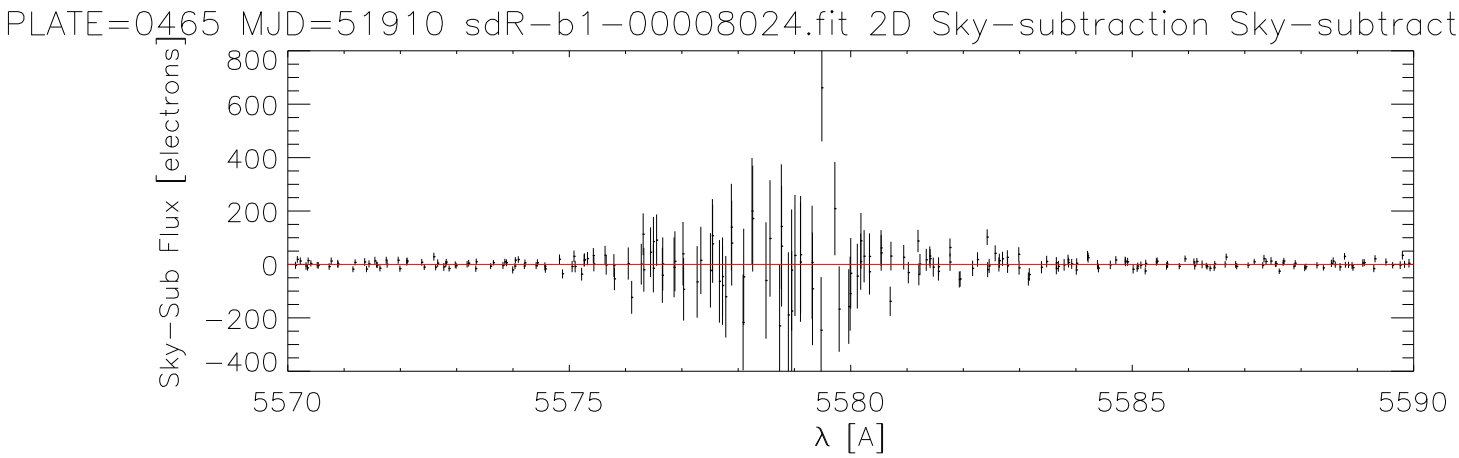

PLATE=0465 MJD=51910 sdR-b1-00008024.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

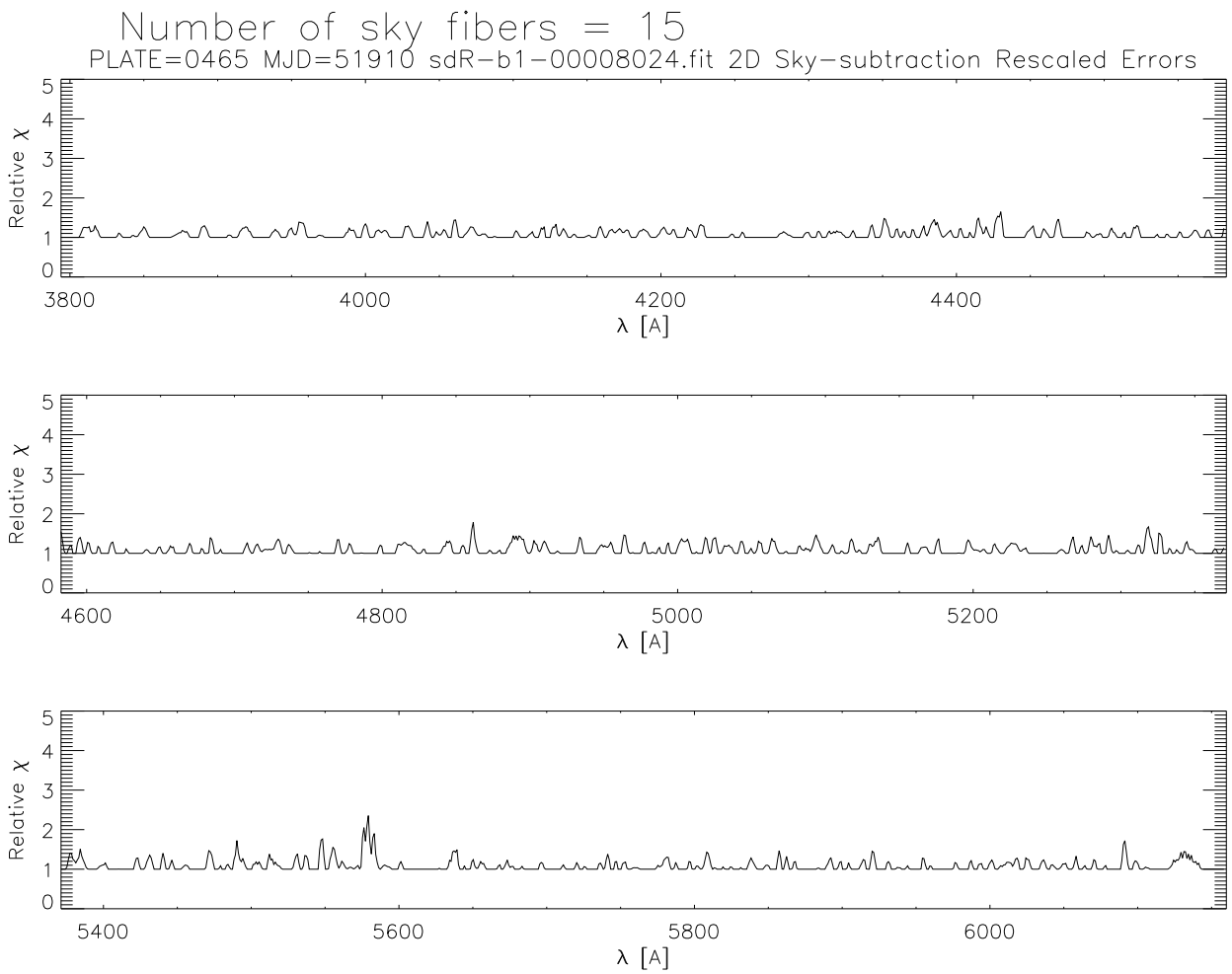

PLATE=0465 MJD=51910 sdR-b1-00008024.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

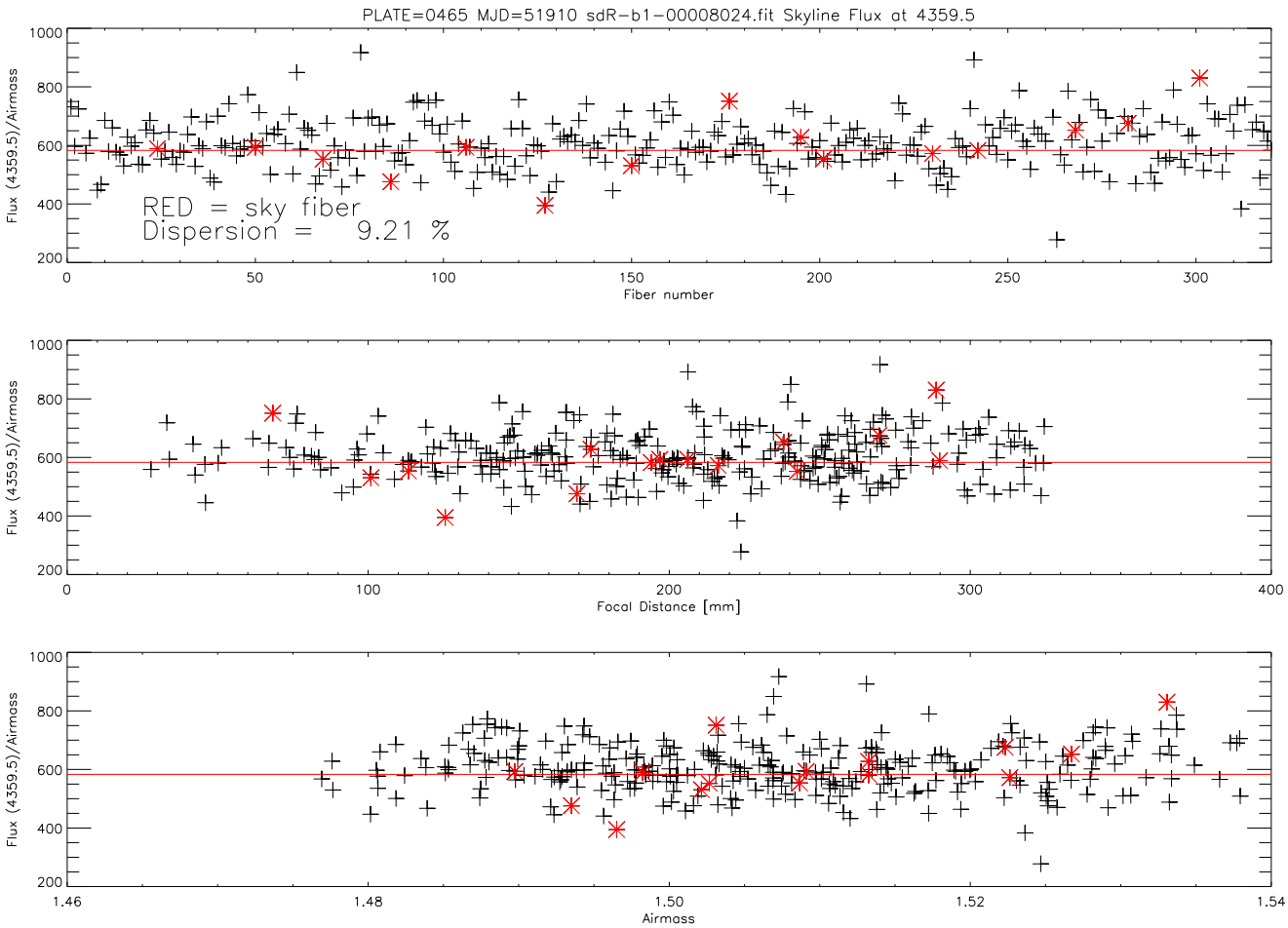

Number of sky fibers = 15
PLATE=0465 MJD=51910 sdR-b1-00008024.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

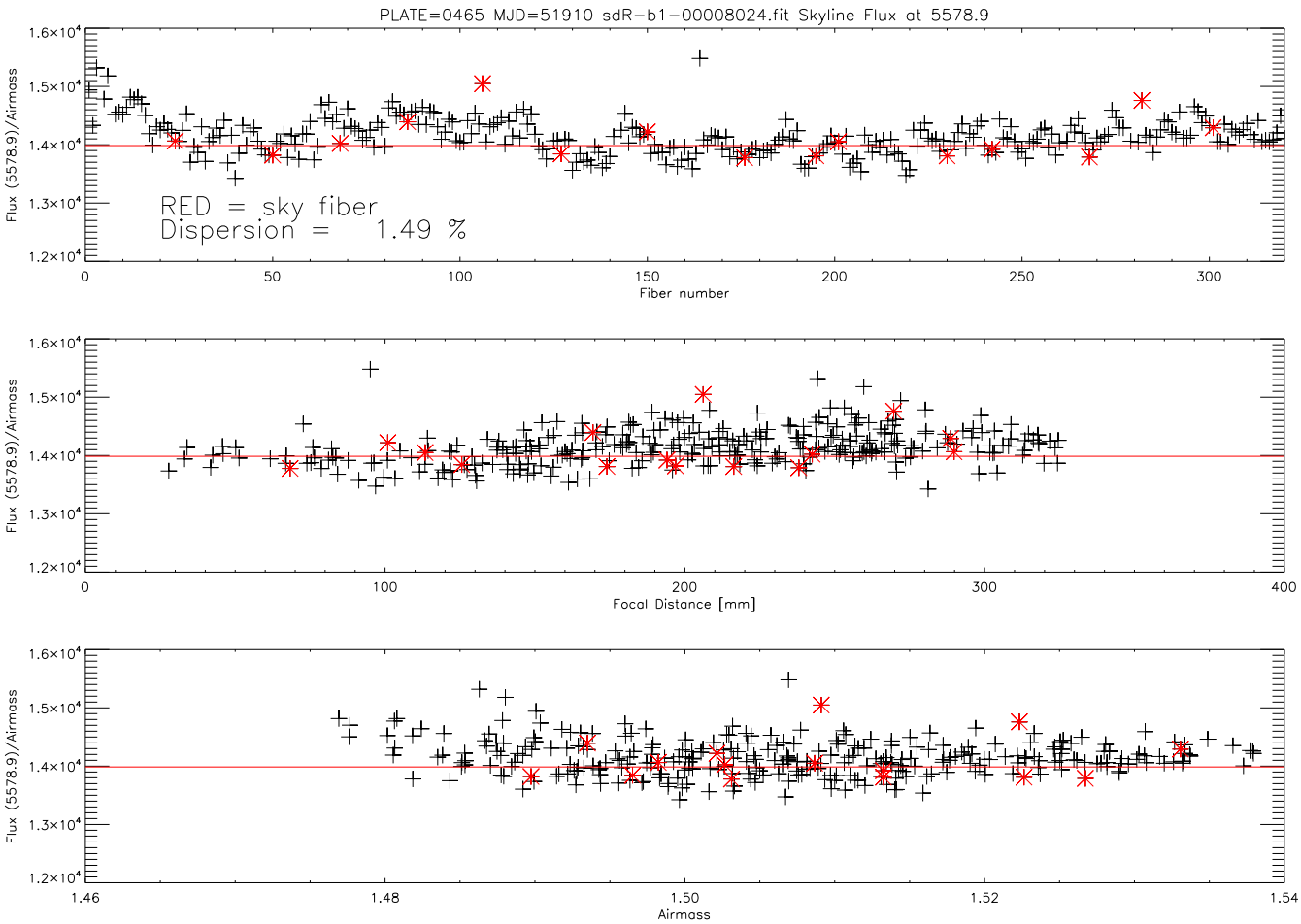

PLATE=0465 MJD=51910 sdR-b1-00008024.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

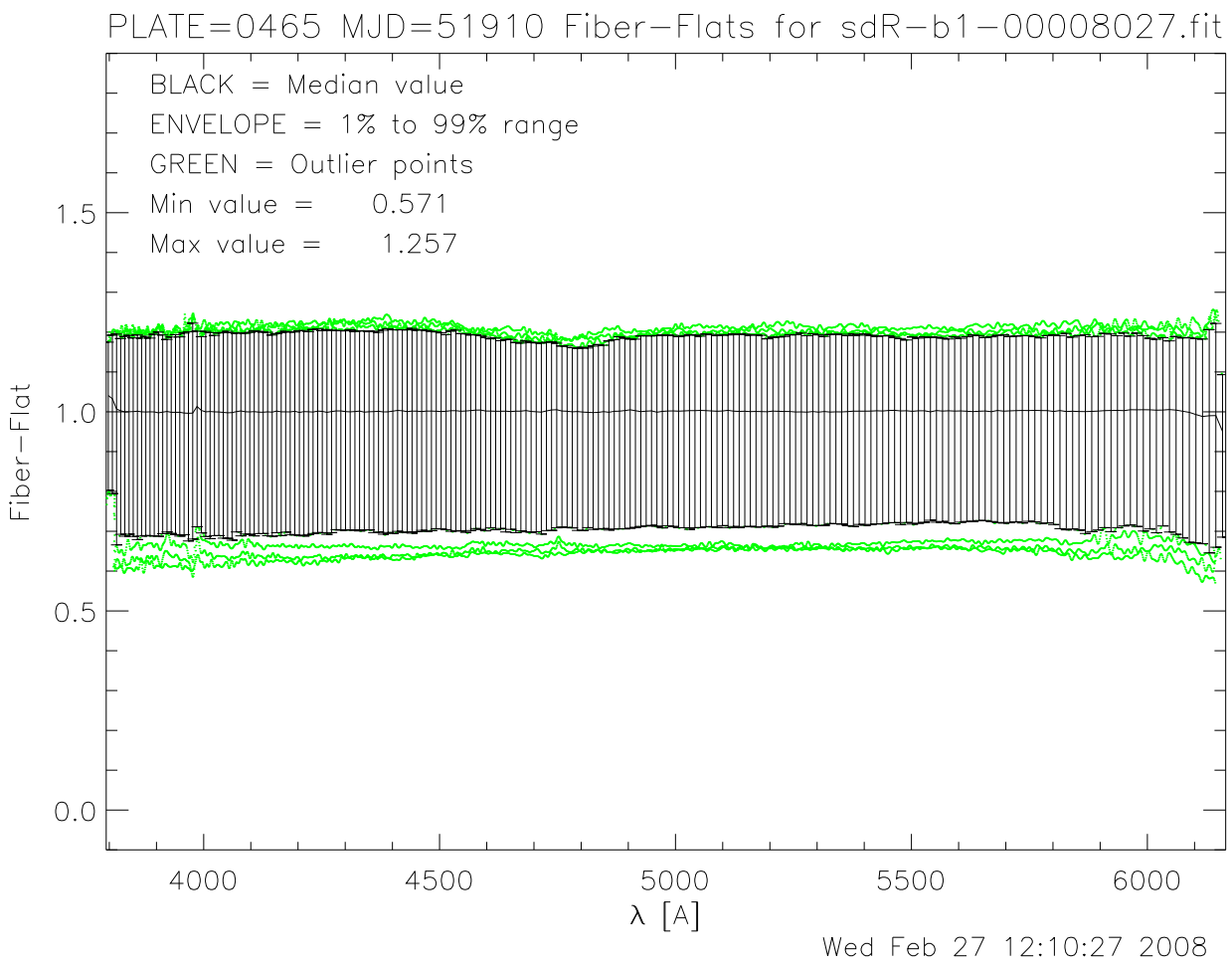

PLATE=0465 MJD=51910 sdR-b1-00008024.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

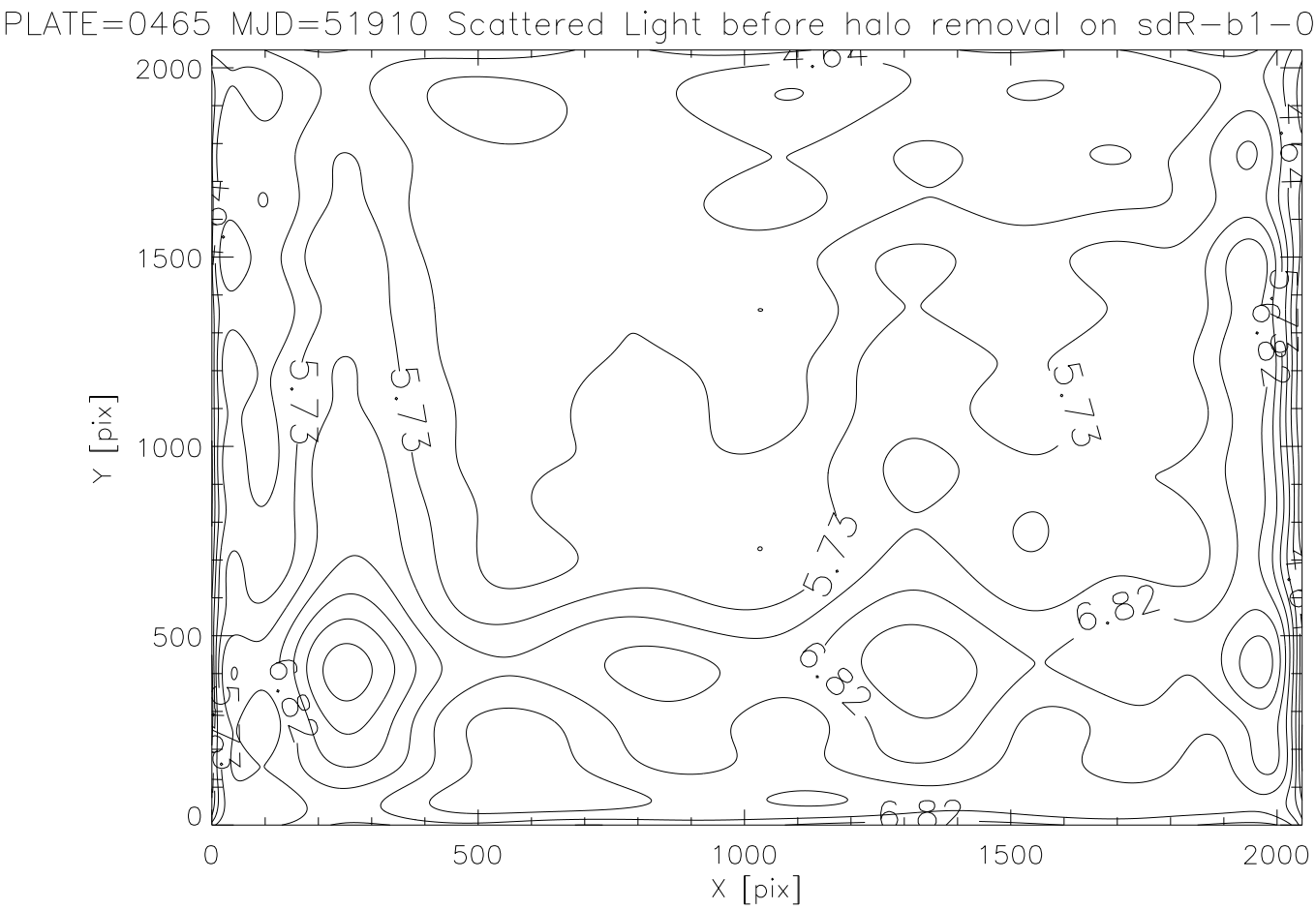

PLATE=0465 MJD=51910 sdR-b1-00008024.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

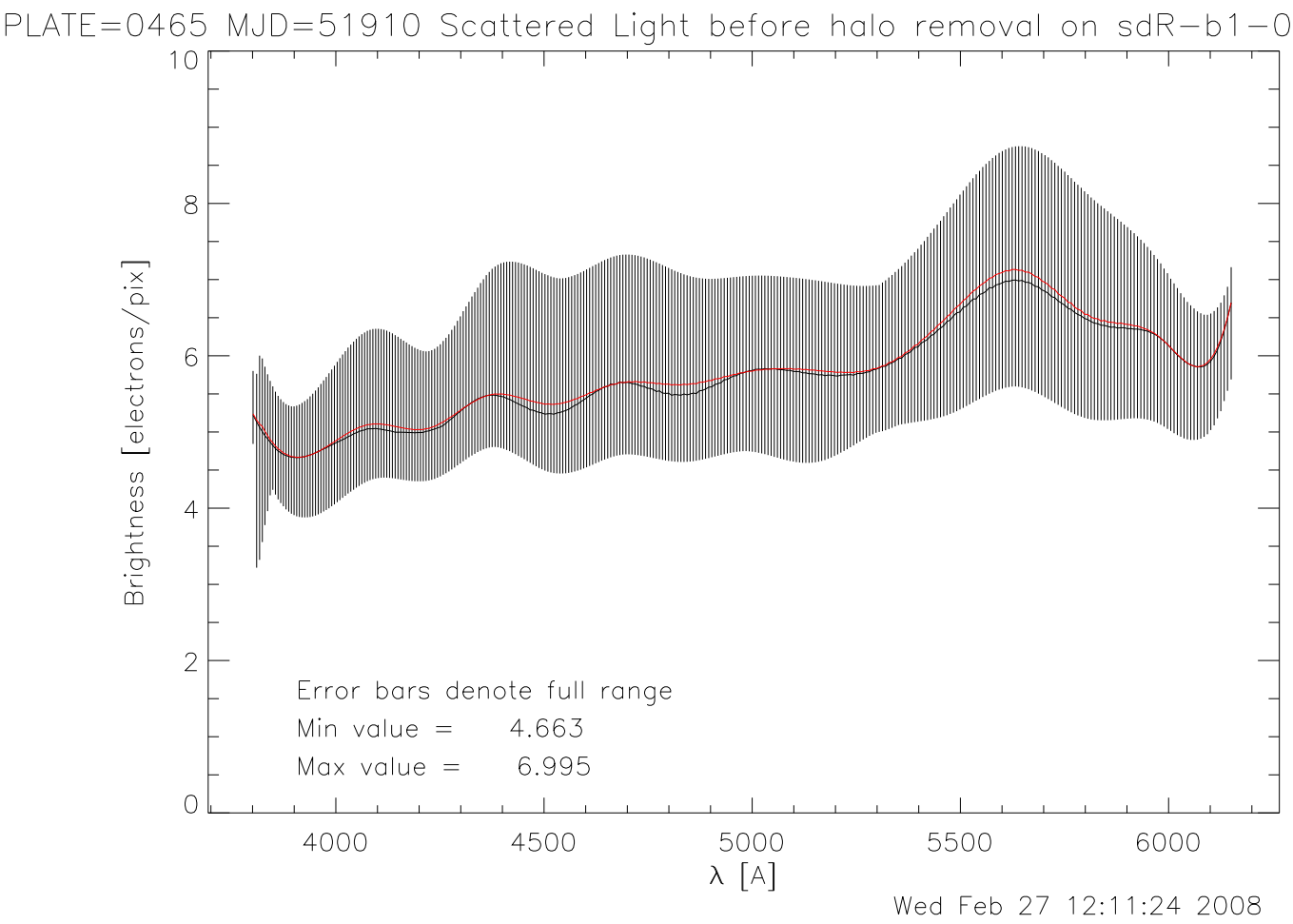

Number of sky fibers = 15
PLATE=0465 MJD=51910 sdR-b1-00008024.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

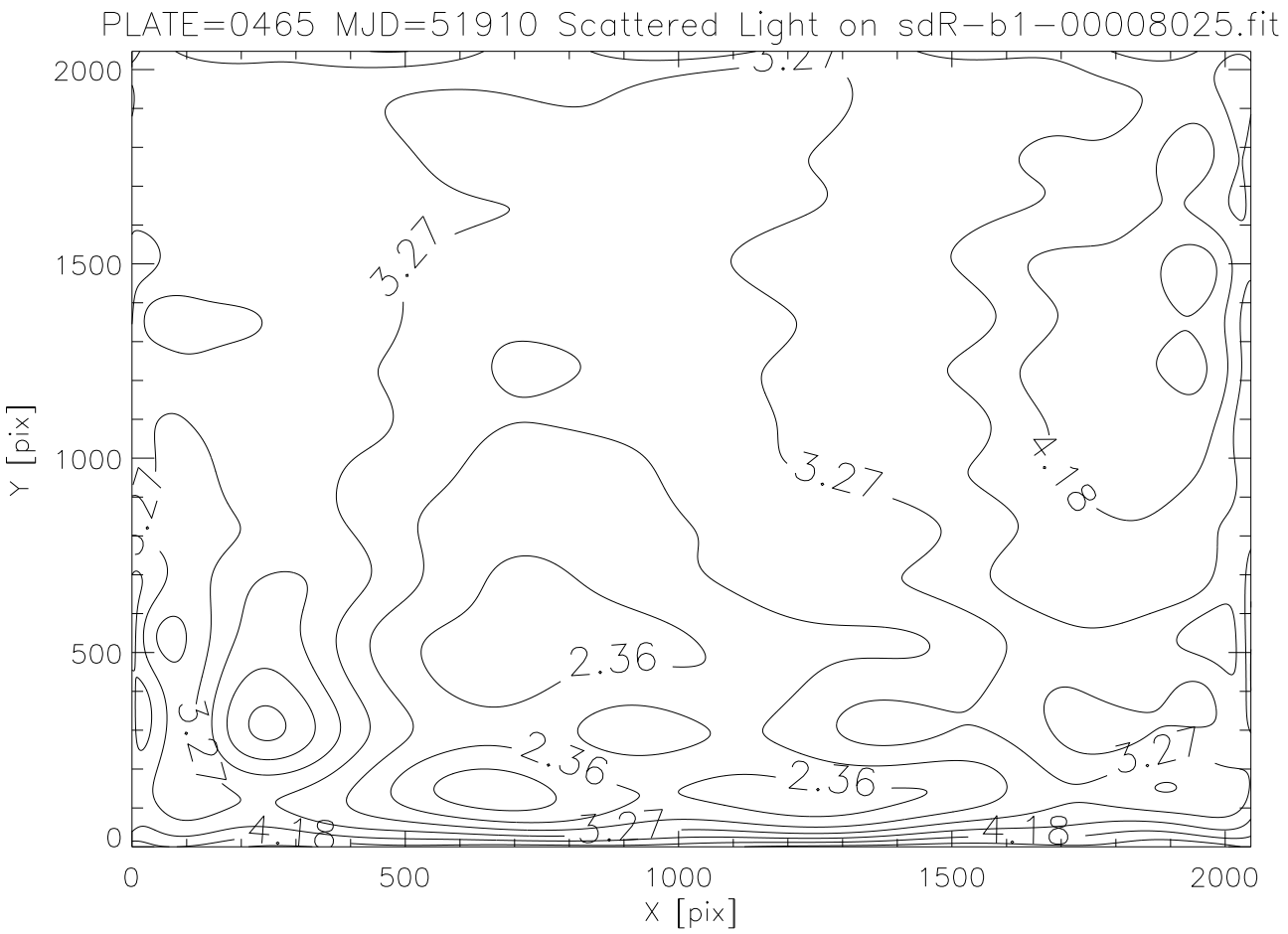

PLATE=0465 MJD=51910 sdR-b1-00008024.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 9.21 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

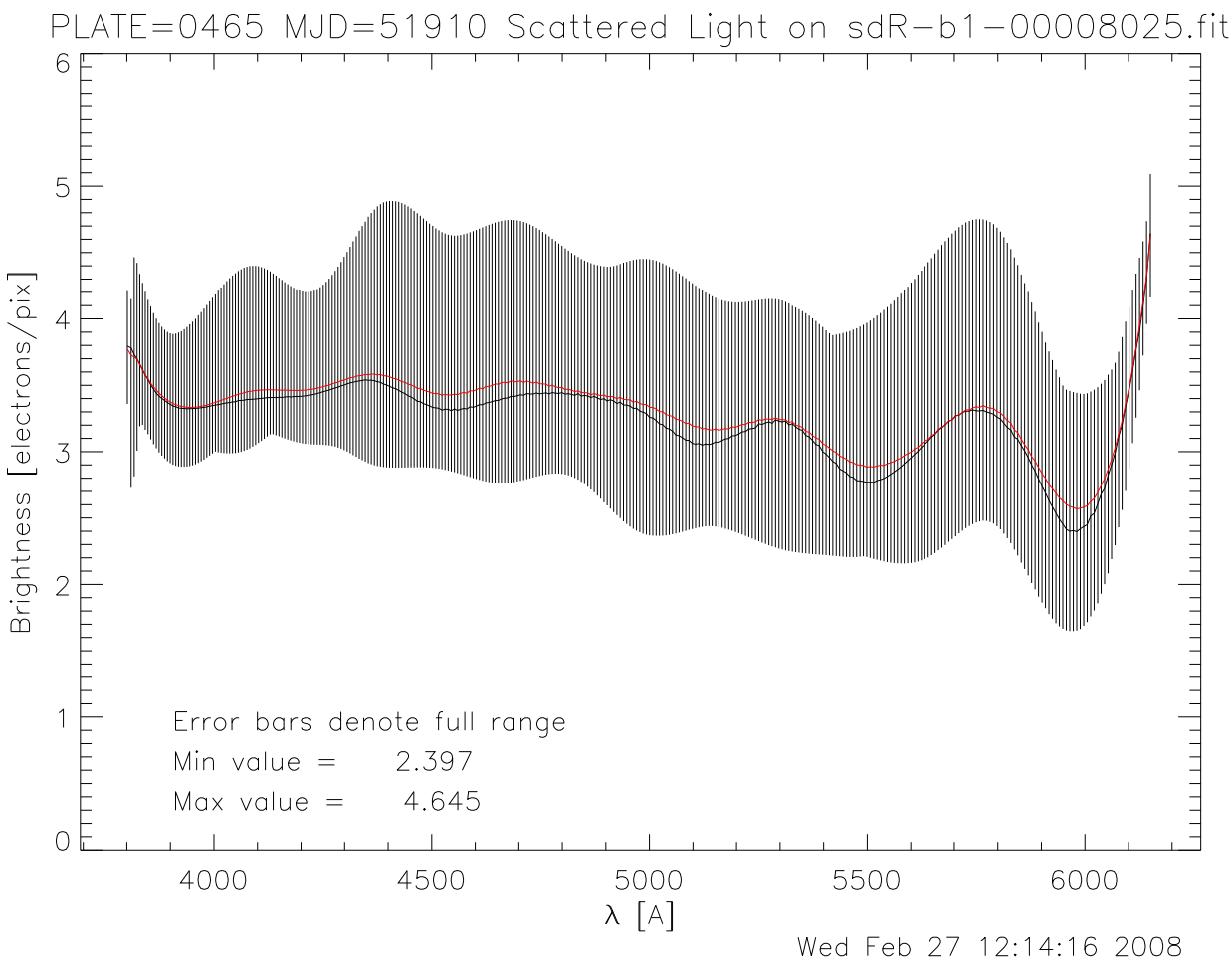

PLATE=0465 MJD=51910 sdR-b1-00008024.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.49 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

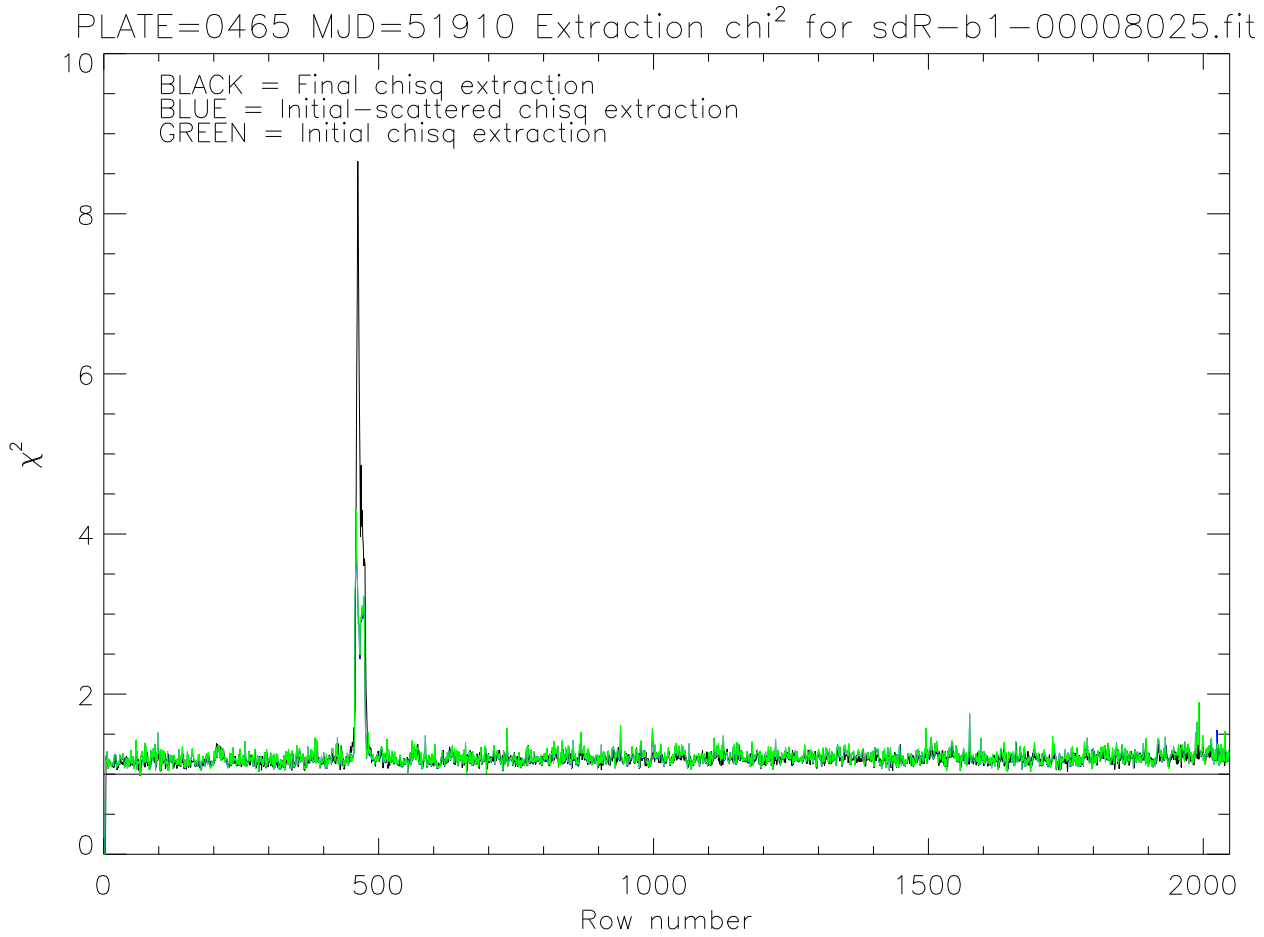

PLATE=0465 MJD=51910 Fiber-Flats for sdR-b1-00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.571
Max value = 1.257
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:10:27 2008

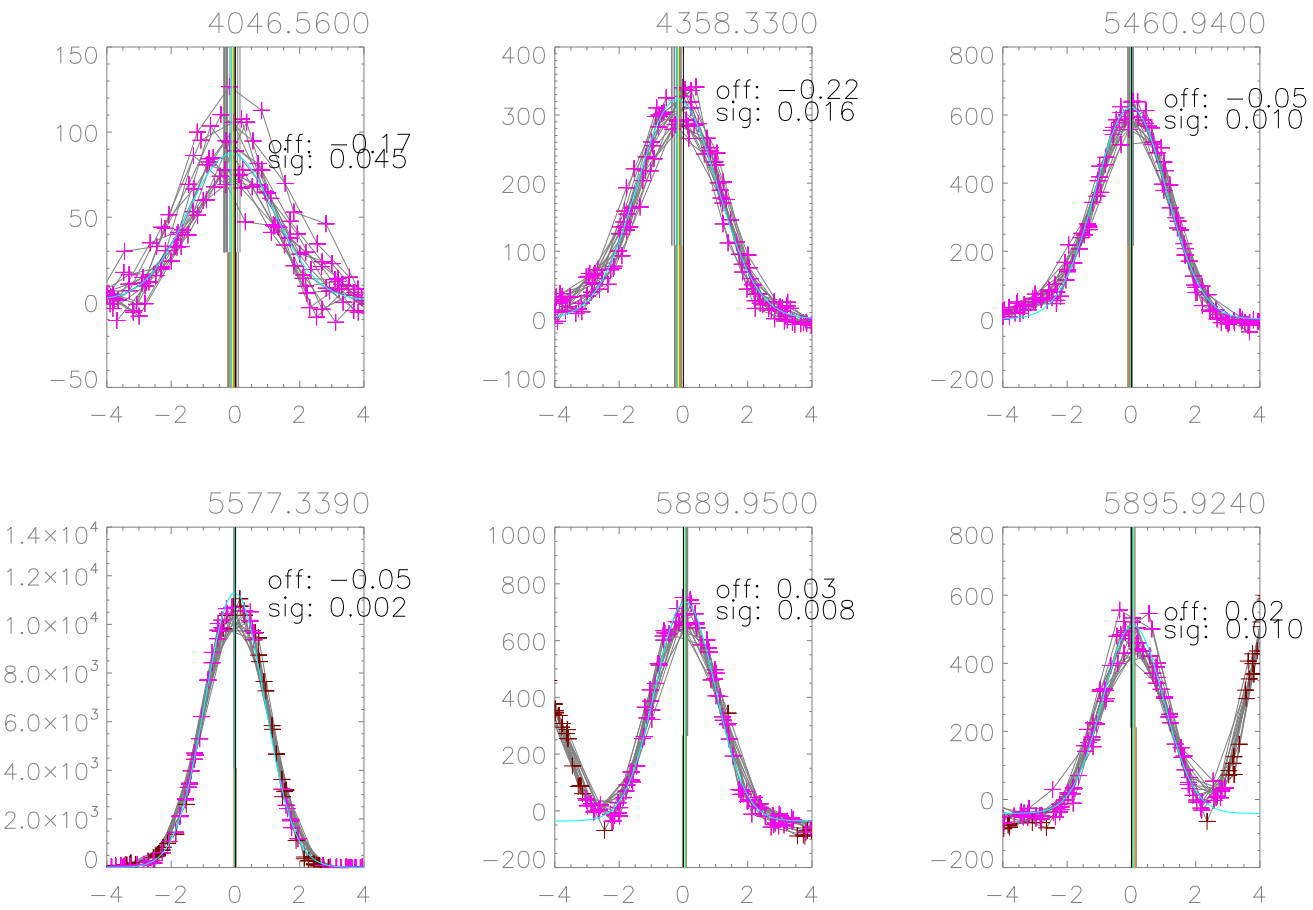

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR−b1−00008025.f
4.64
4.64
4.64
5.73
5.73
5.73
5.73
5.73
6.82
6.82
6.82
6.82
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

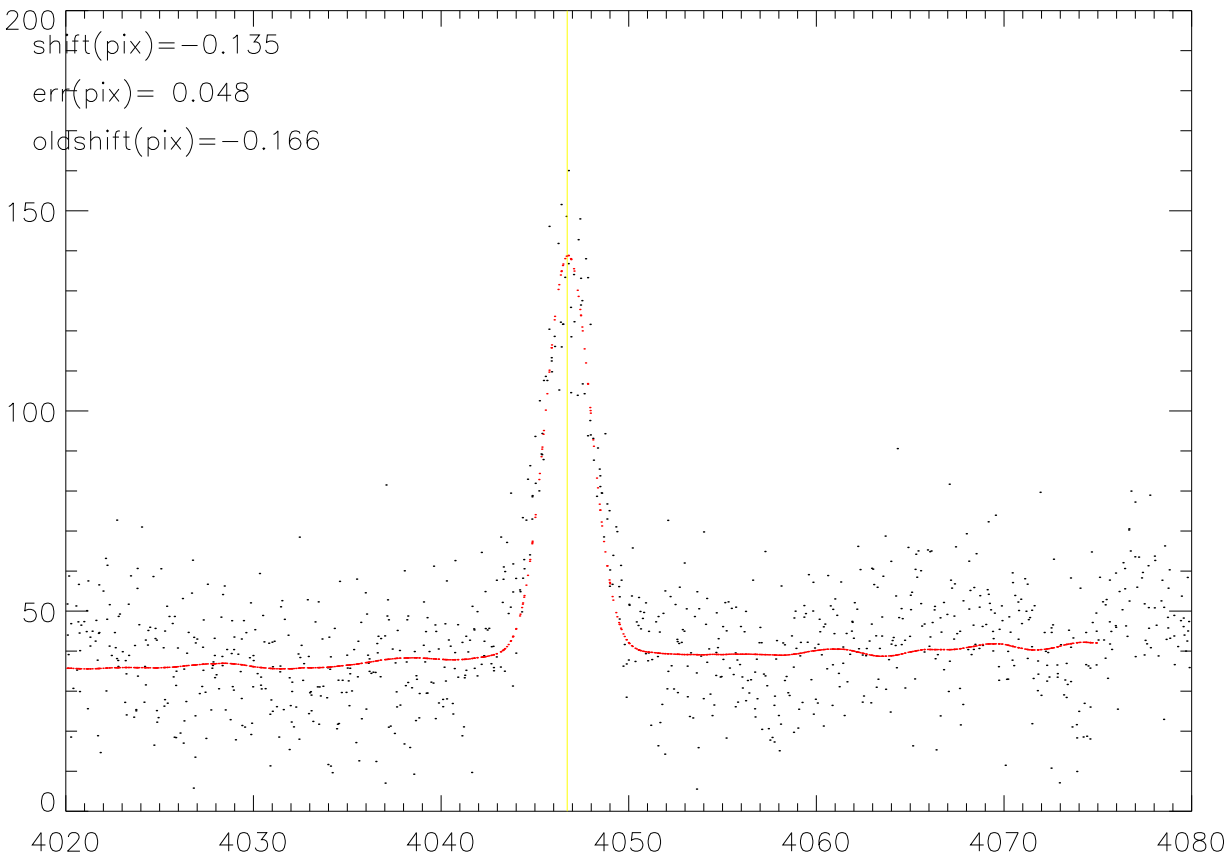

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR−b1−00008025.f
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 4.663
Max value = 6.995
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:11:24 2008

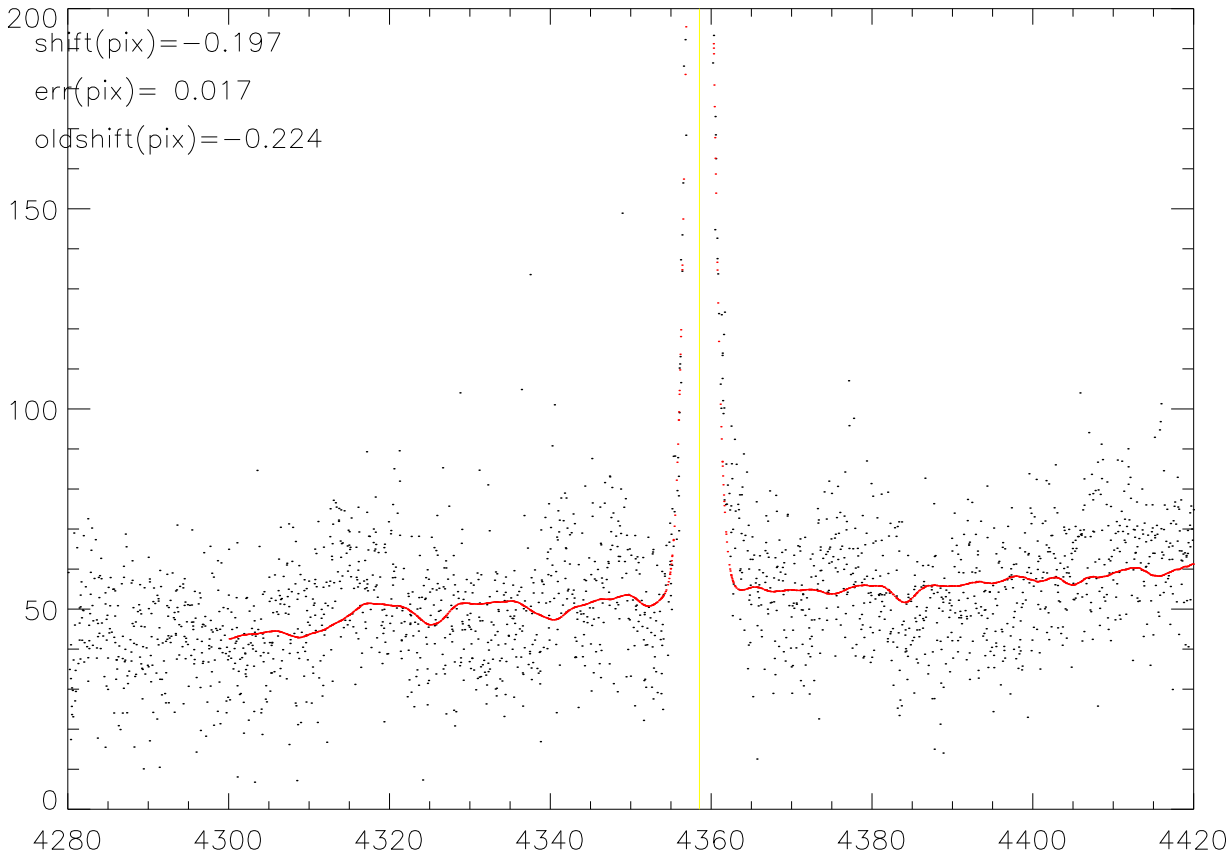

PLATE=0465 MJD=51910 Scattered Light on sdR-b1-00008025.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.27
2.36
4.18

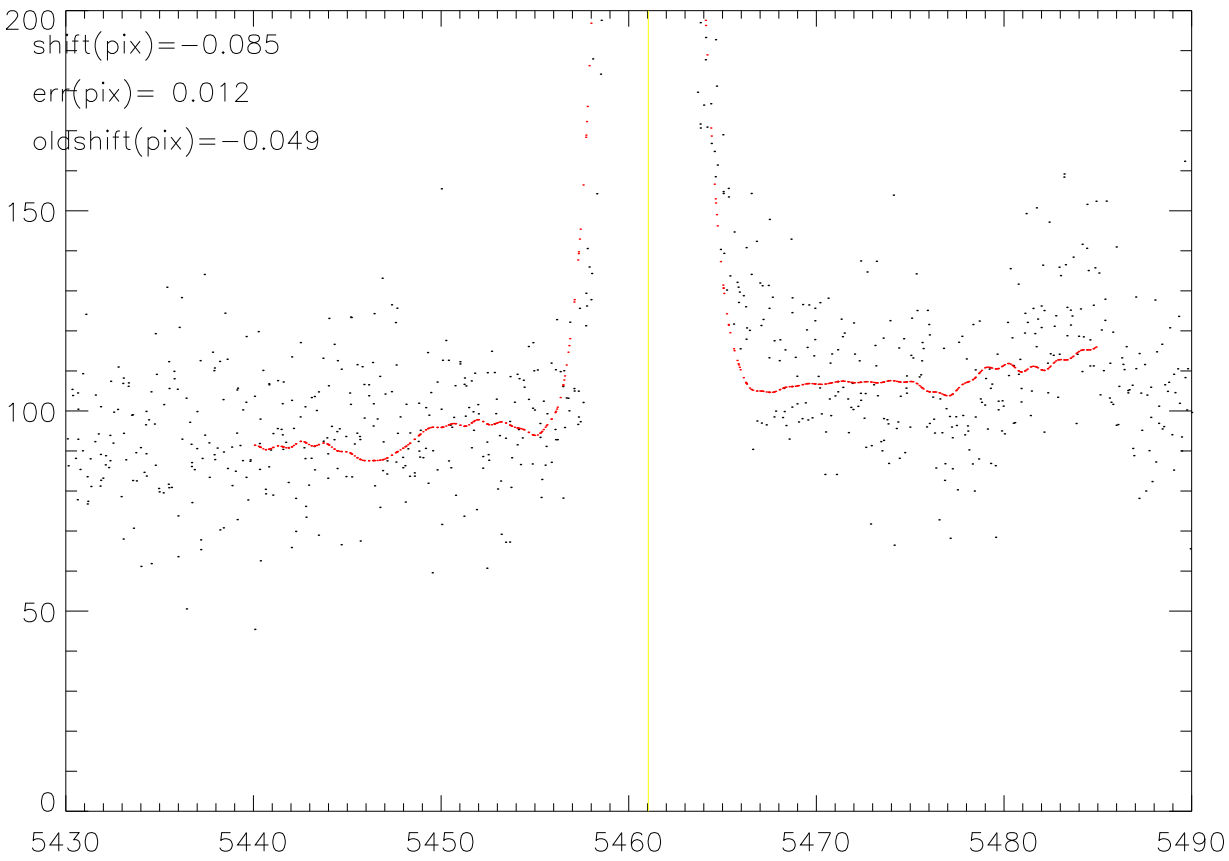

PLATE=0465 MJD=51910 Scattered Light on sdR-b1-00008025.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.397
Max value = 4.645
Wed Feb 27 12:14:16 2008

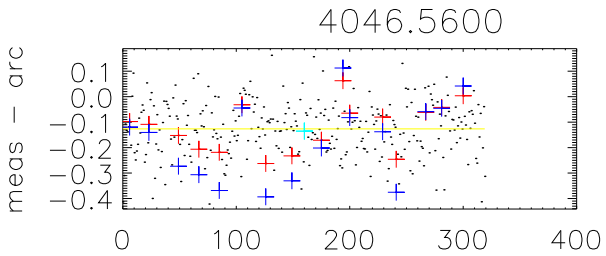

PLATE=0465 MJD=51910 Extraction chi^2 for sdR-b1-00008025.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

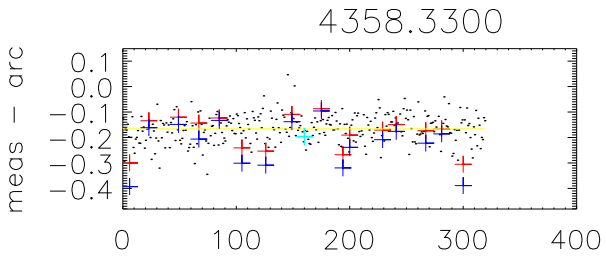

4046.5600
off: −0.17
sig: 0.045
4358.3300
off: −0.22
sig: 0.016
5460.9400
off: −0.05
sig: 0.010
5577.3390
off: −0.05
sig: 0.002
5889.9500
off: 0.03
sig: 0.008
5895.9240
off: 0.02
sig: 0.010

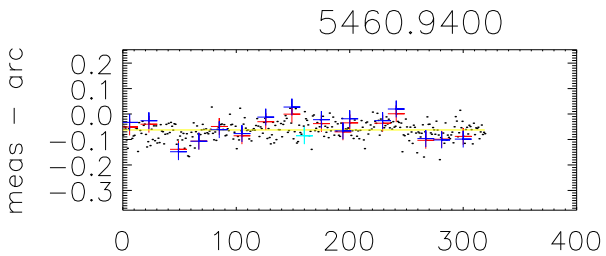

shift(pix)=−0.135
err(pix)= 0.048
oldshift(pix)=−0.166
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

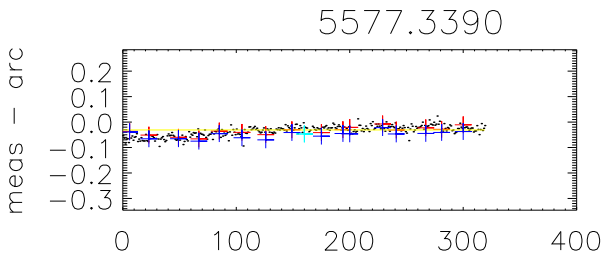

shift(pix)=−0.197
err(pix)= 0.017
oldshift(pix)=−0.224
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

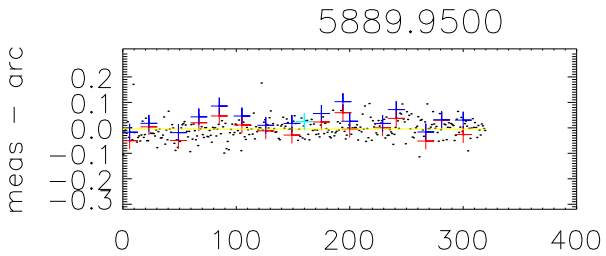

shift(pix)=−0.085
err(pix)= 0.012
oldshift(pix)=−0.049
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

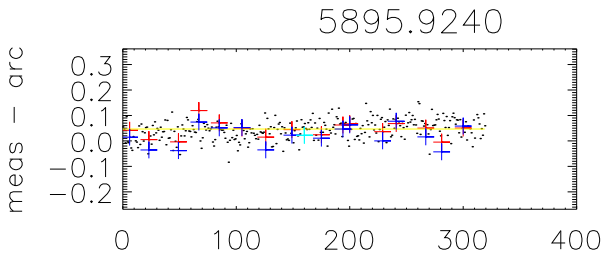

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

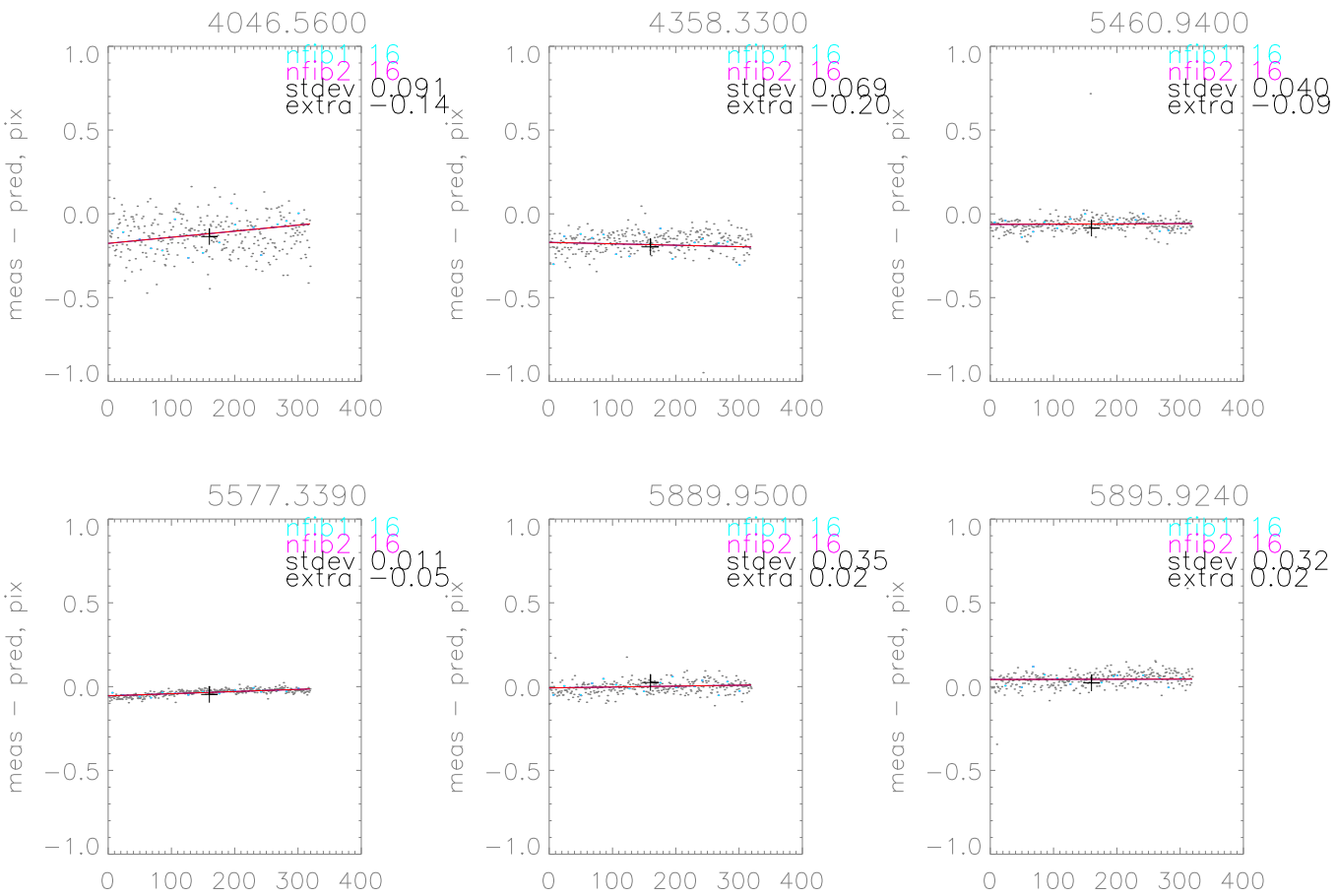

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

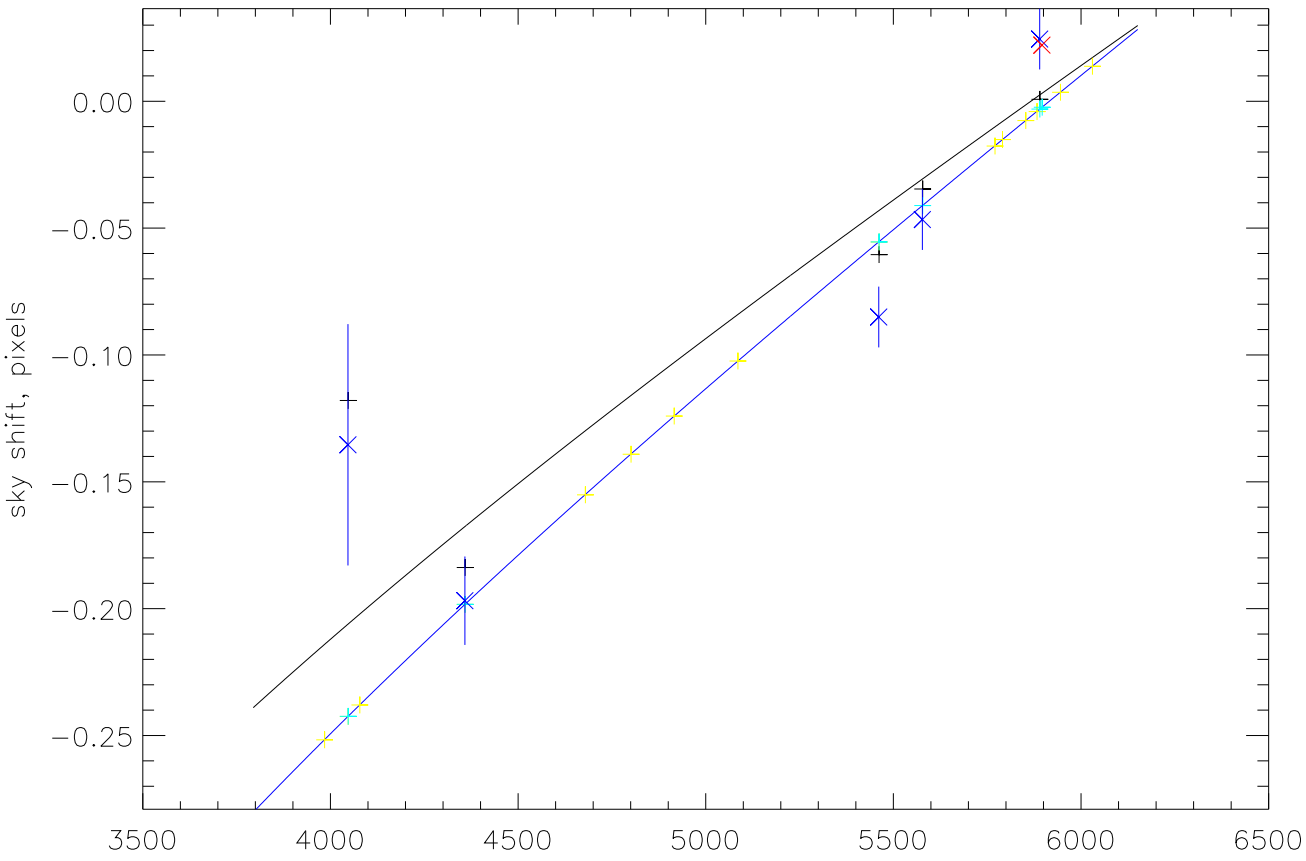

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

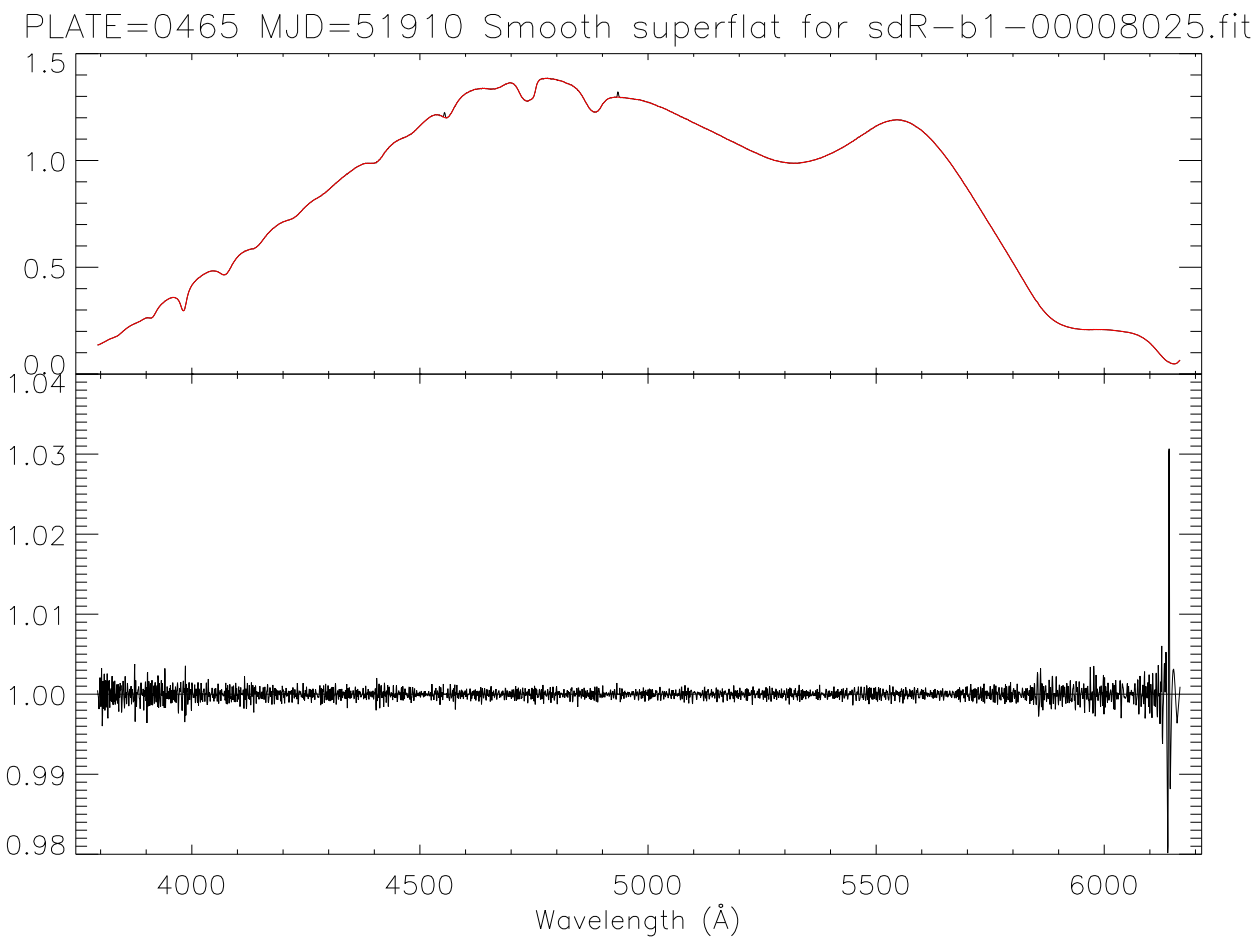

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

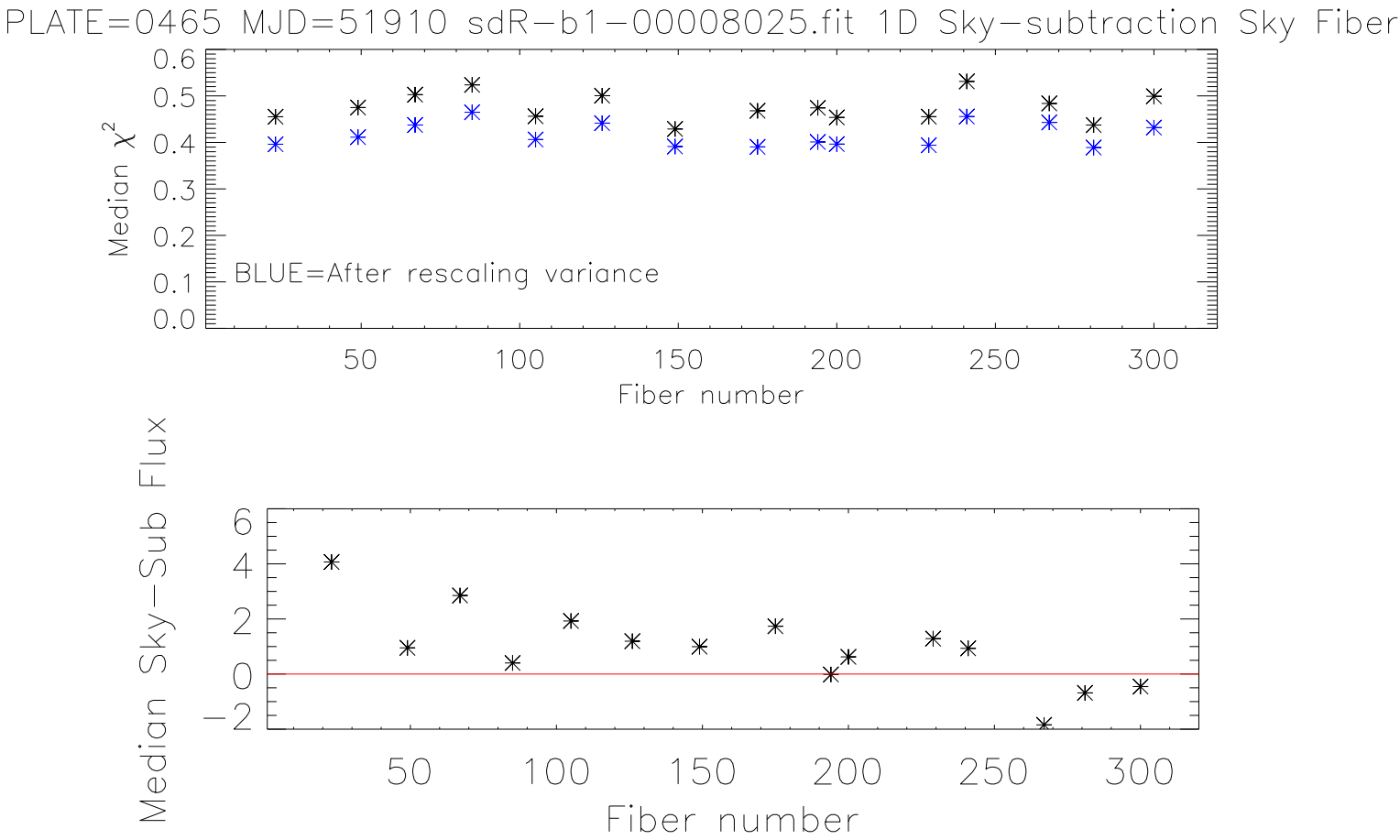

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

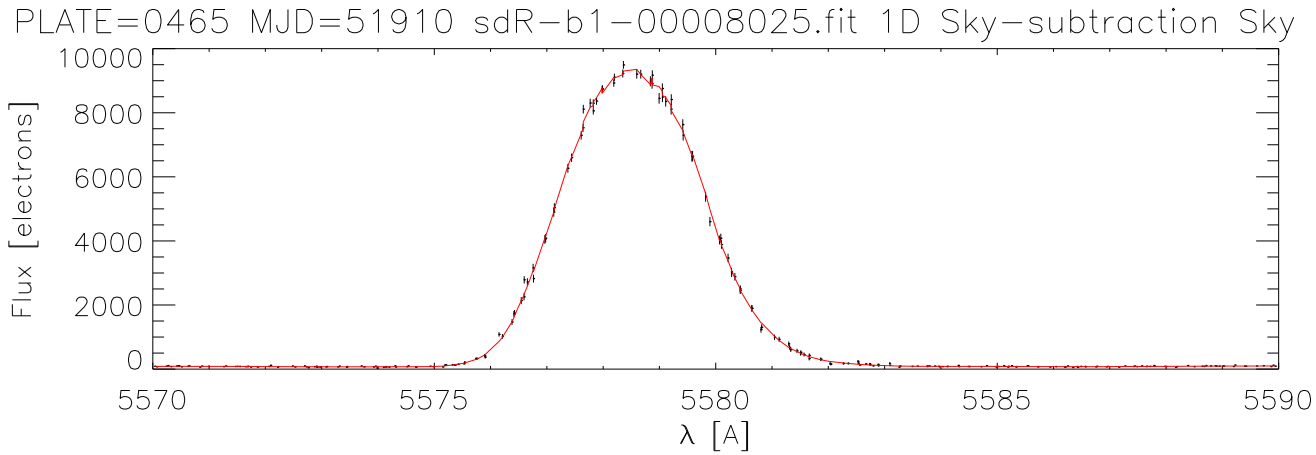

4046.5600
nfib1 16
nfib2 16
stdev 0.091
extra −0.14
4358.3300
nfib1 16
nfib2 16
stdev 0.069
extra −0.20
5460.9400
nfib1 16
nfib2 16
stdev 0.040
extra −0.09
5577.3390
nfib1 16
nfib2 16
stdev 0.011
extra −0.05
5889.9500
nfib1 16
nfib2 16
stdev 0.035
extra 0.02
5895.9240
nfib1 16
nfib2 16
stdev 0.032
extra 0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

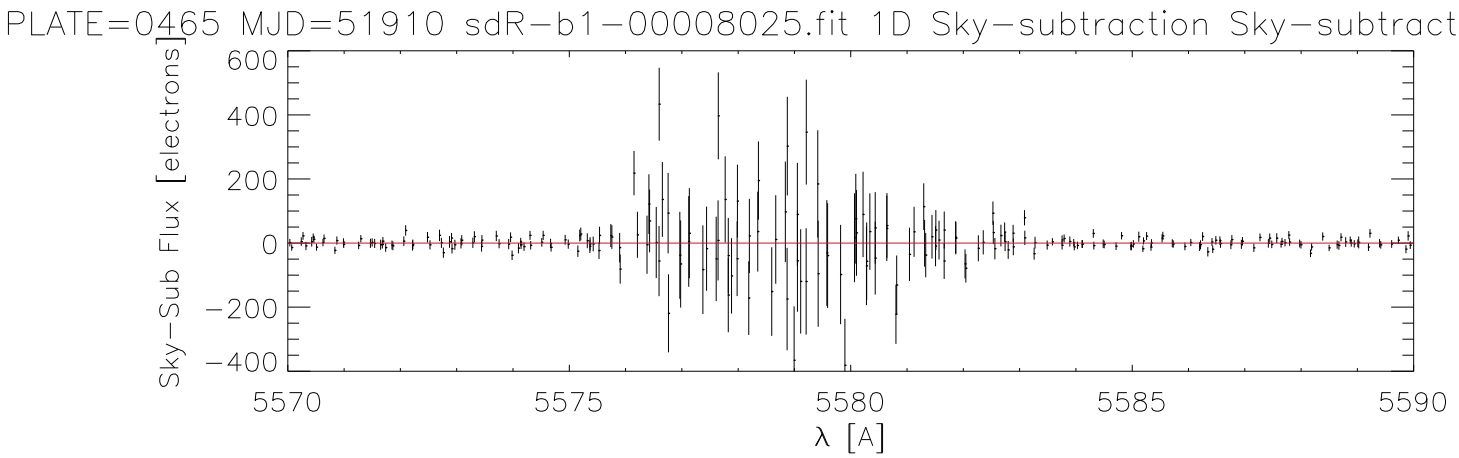

0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

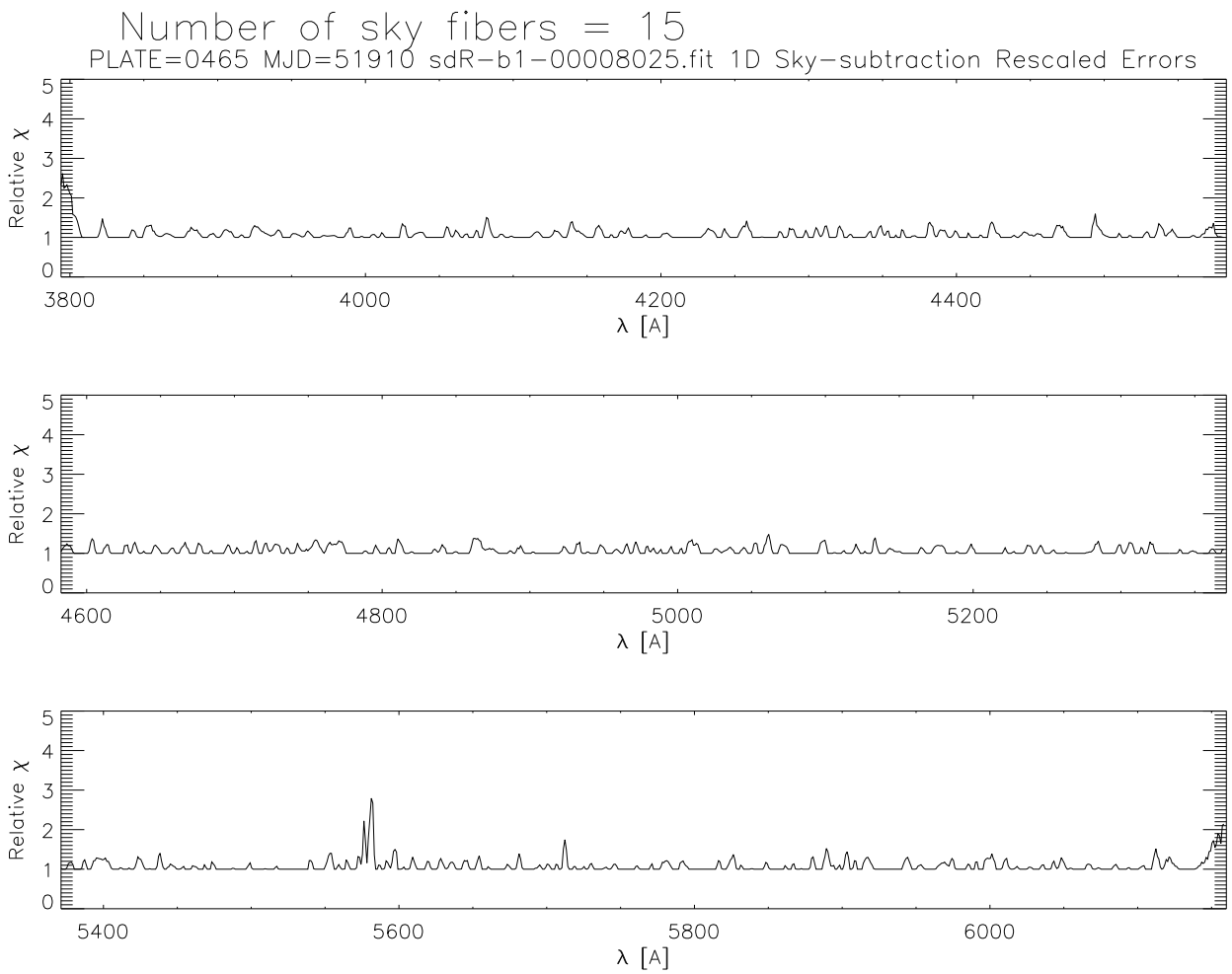
es= 0.0000

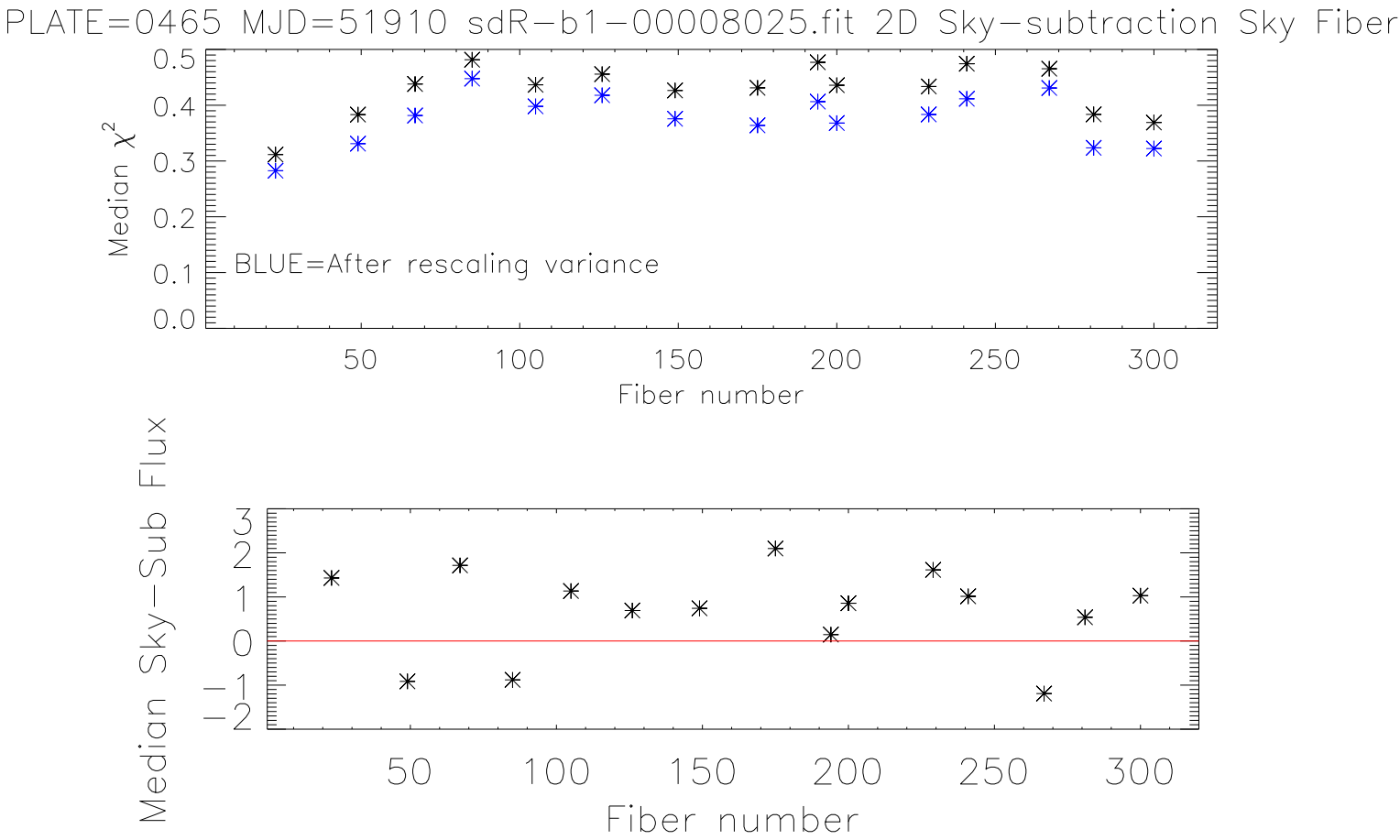

PLATE=0465 MJD=51910 Smooth superflat for sdR-b1-00008025.fit
1.5
1.0
0.5
0.0
1.04
1.03
1.02
1.01
1.00
0.99
0.98
4000
4500
5000
5500
6000
Wavelength (Å)

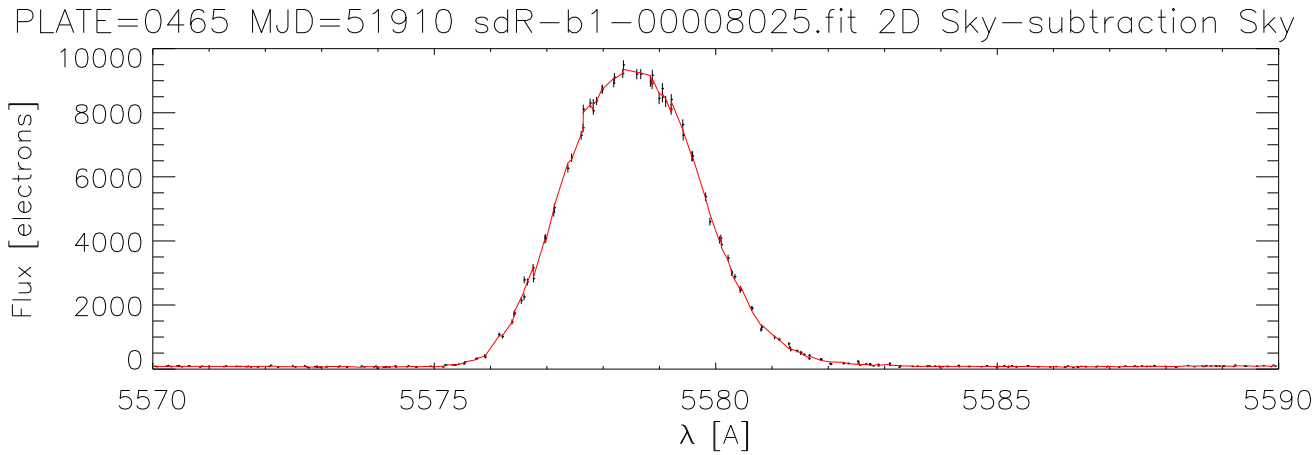

PLATE=0465 MJD=51910 sdR-b1-00008025.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

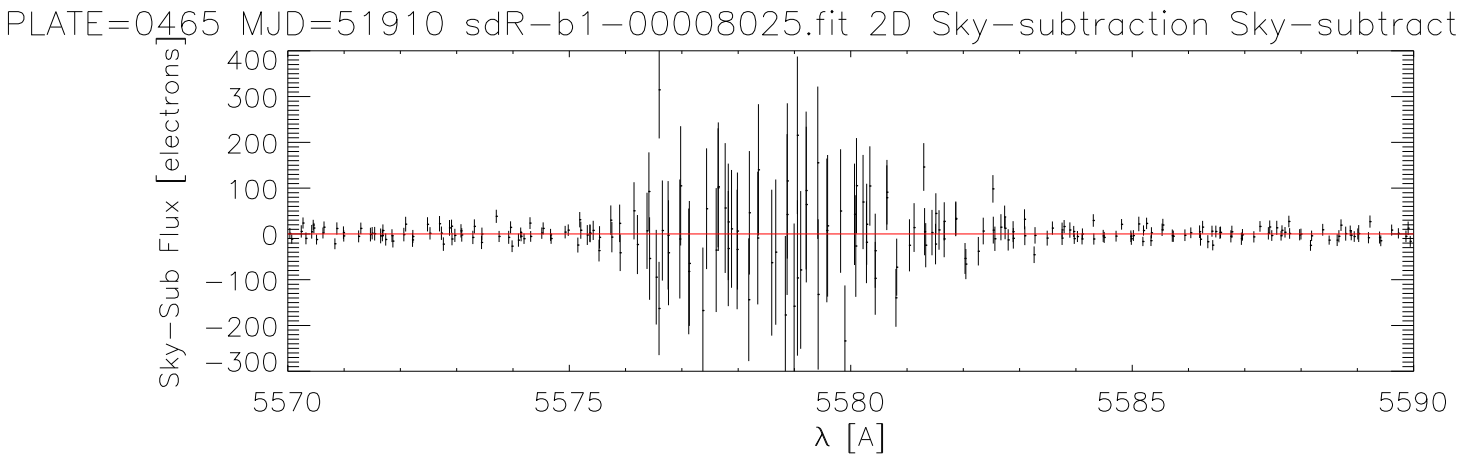

PLATE=0465 MJD=51910 sdR-b1-00008025.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

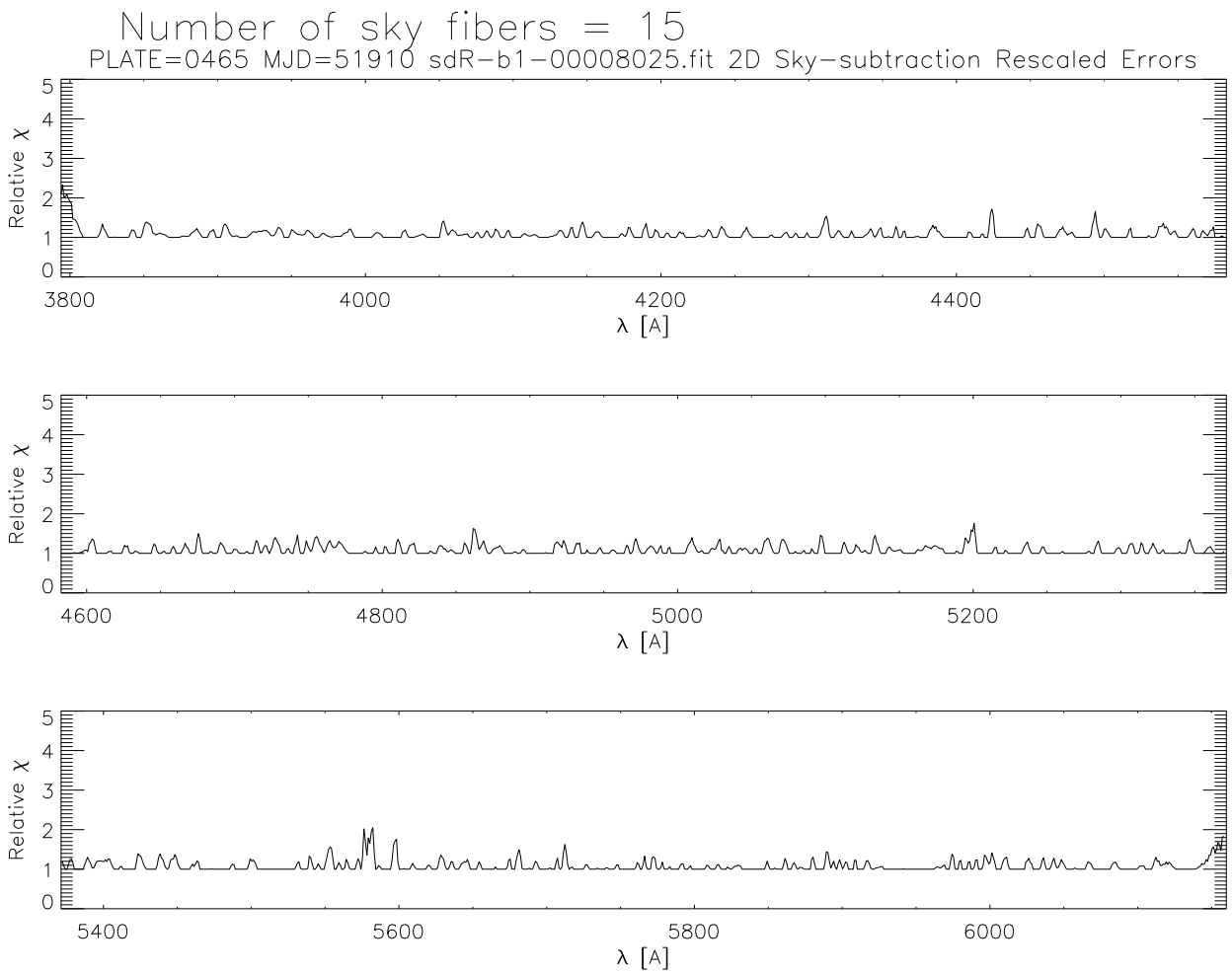

PLATE=0465 MJD=51910 sdR-b1-00008025.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

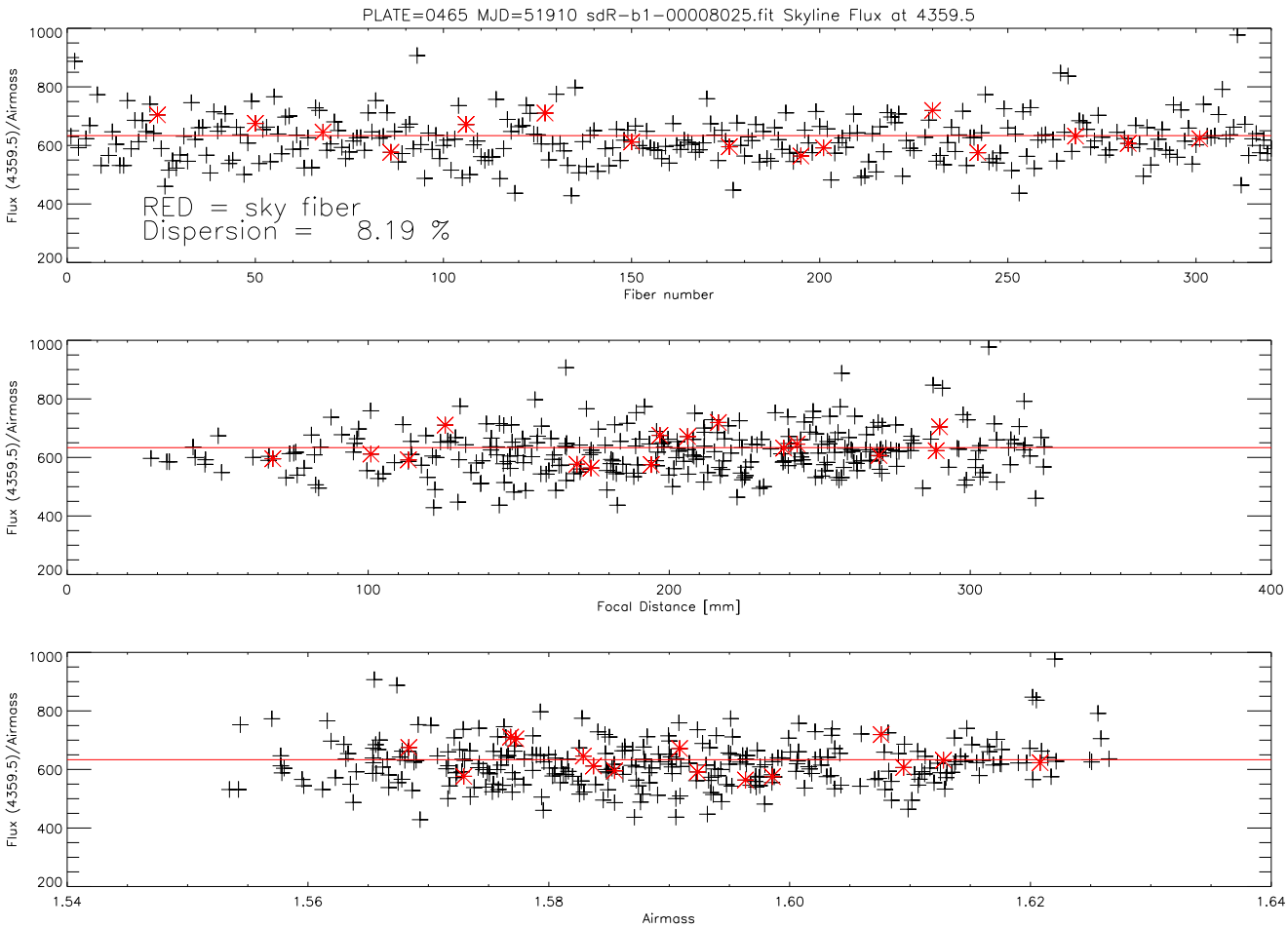

Number of sky fibers = 15
PLATE=0465 MJD=51910 sdR-b1-00008025.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

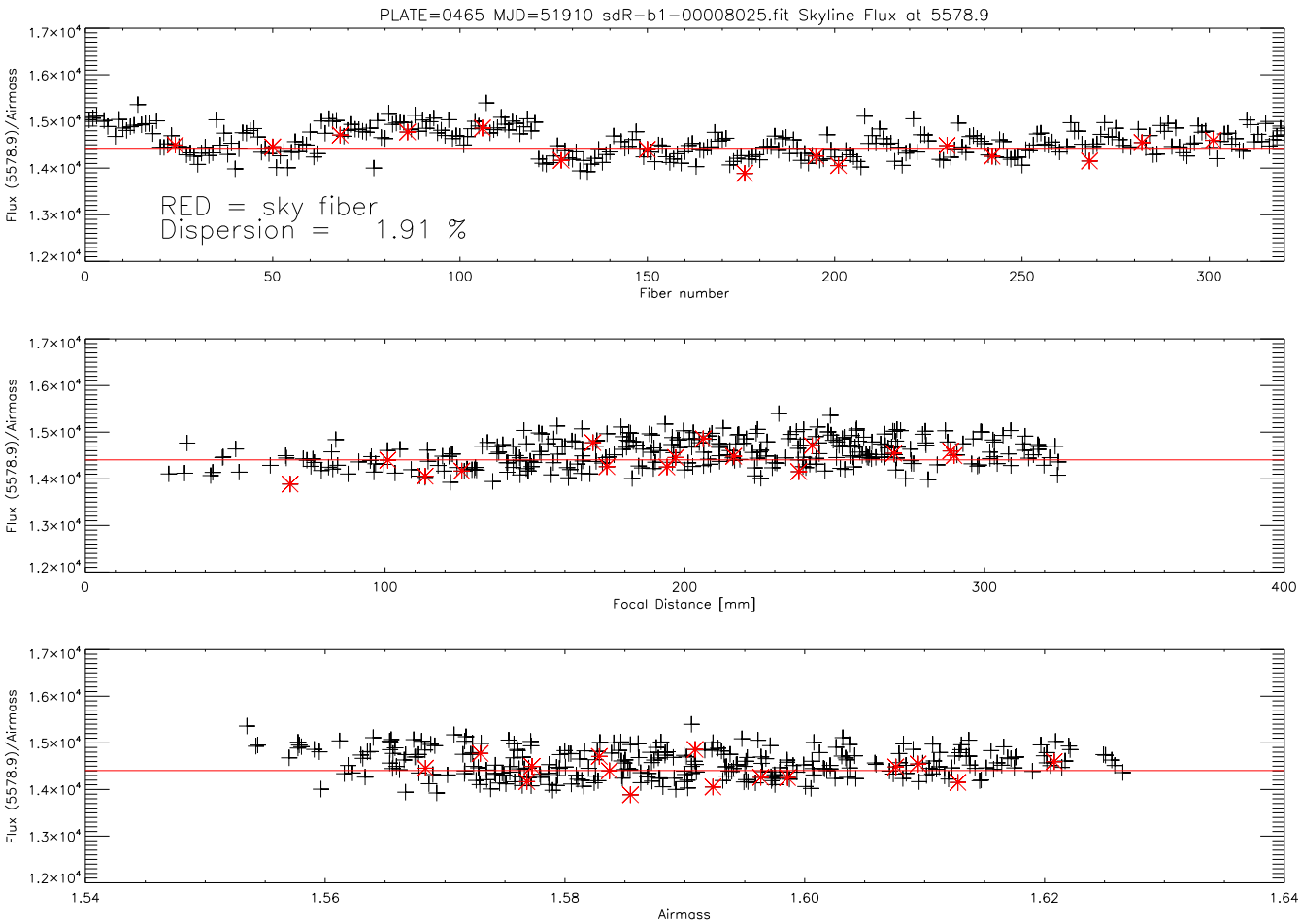

PLATE=0465 MJD=51910 sdR-b1-00008025.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

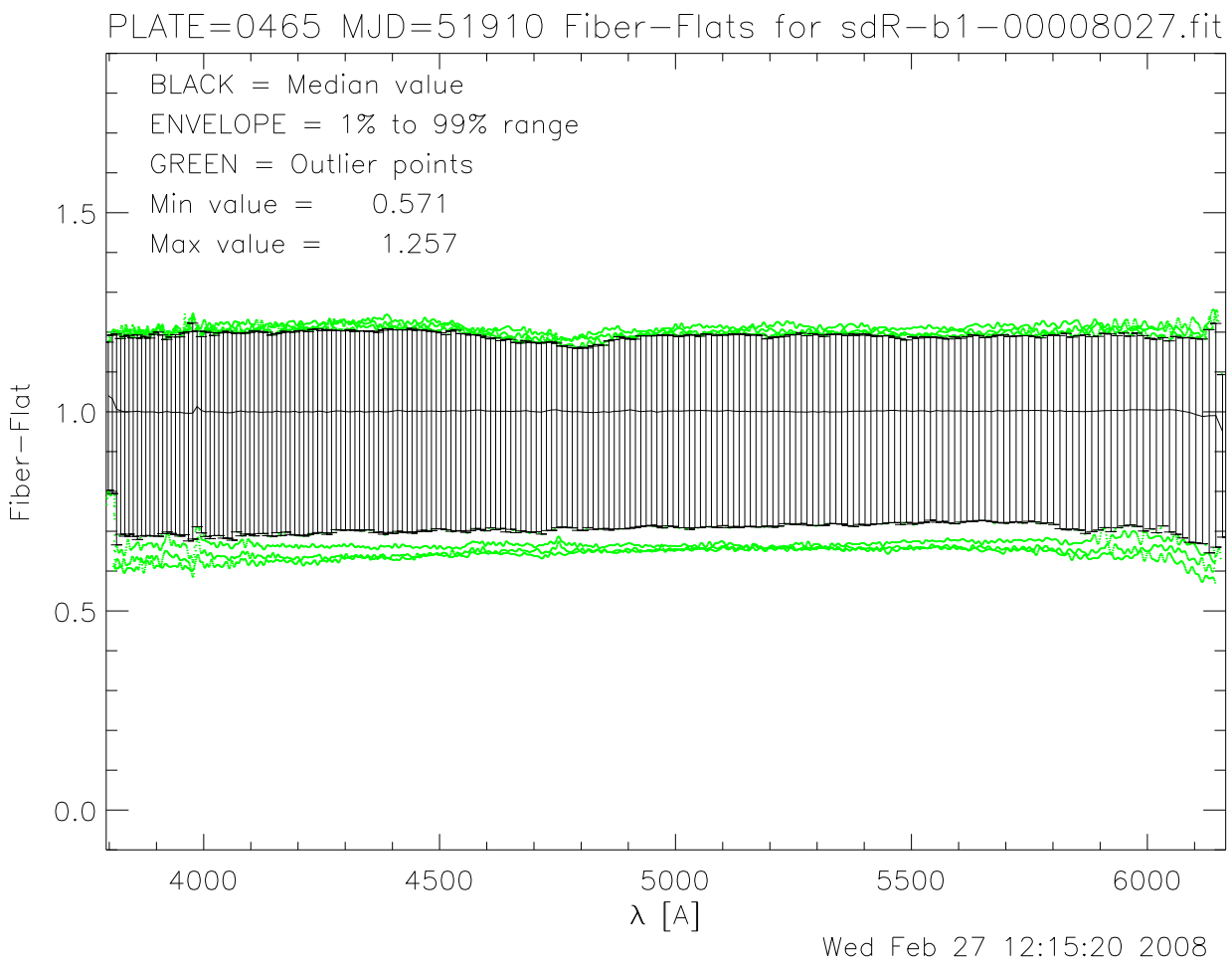

PLATE=0465 MJD=51910 sdR-b1-00008025.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=0465 MJD=51910 sdR-b1-00008025.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]


Number of sky fibers = 15
PLATE=0465 MJD=51910 sdR-b1-00008025.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=0465 MJD=51910 sdR-b1-00008025.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.19 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass


PLATE=0465 MJD=51910 sdR-b1-00008025.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.91 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=0465 MJD=51910 Fiber-Flats for sdR-b1-00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.571
Max value = 1.257
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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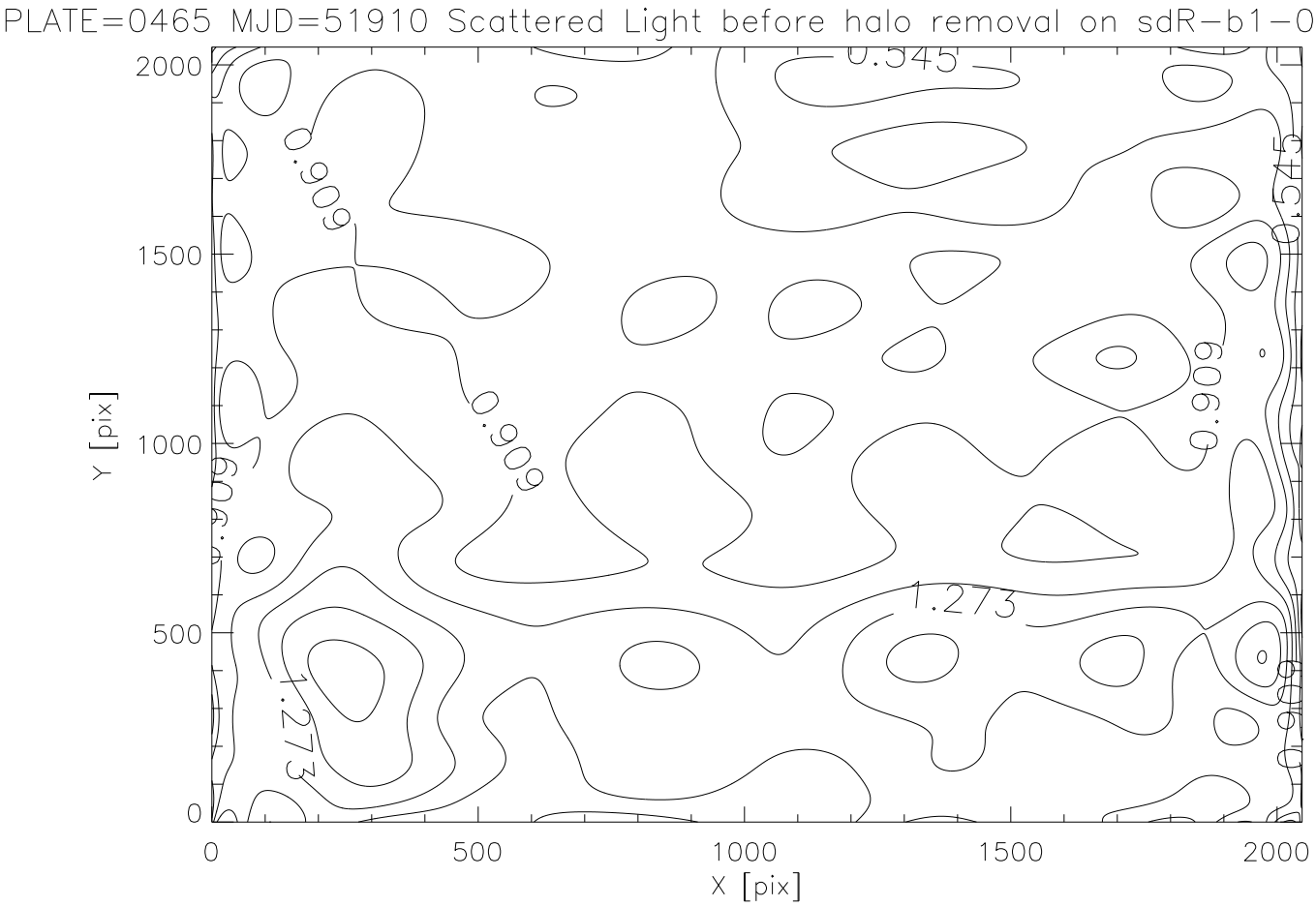
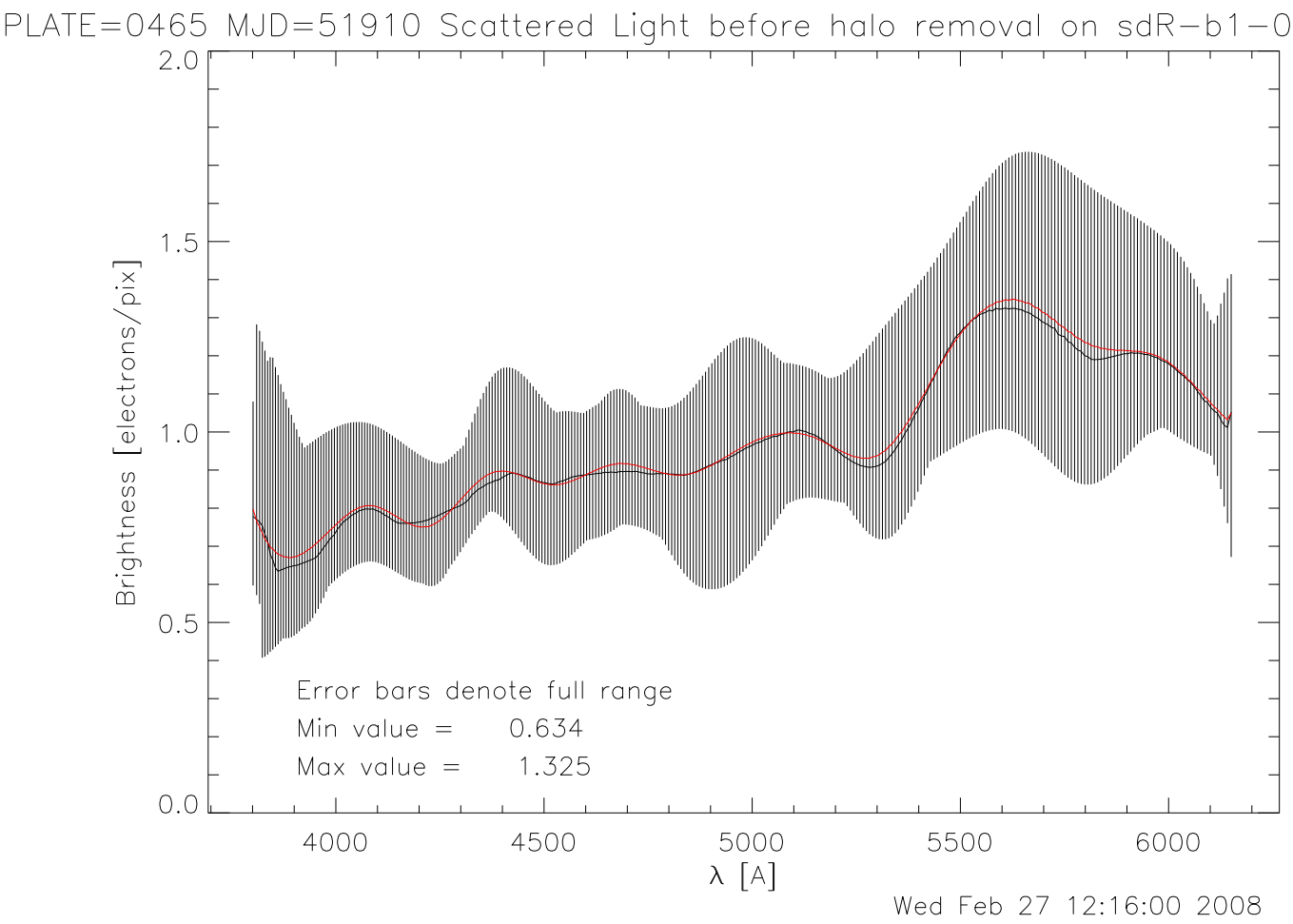

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-b1-00008026.f
0.545
0.909
0.909
0.909
1.273
1.273
0.545
0.909
0.909
0
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]


PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-b1-00008026.f
Brightness [electrons/pix]
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.634
Max value = 1.325
4000
4500
5000
5500
6000
λ [A]
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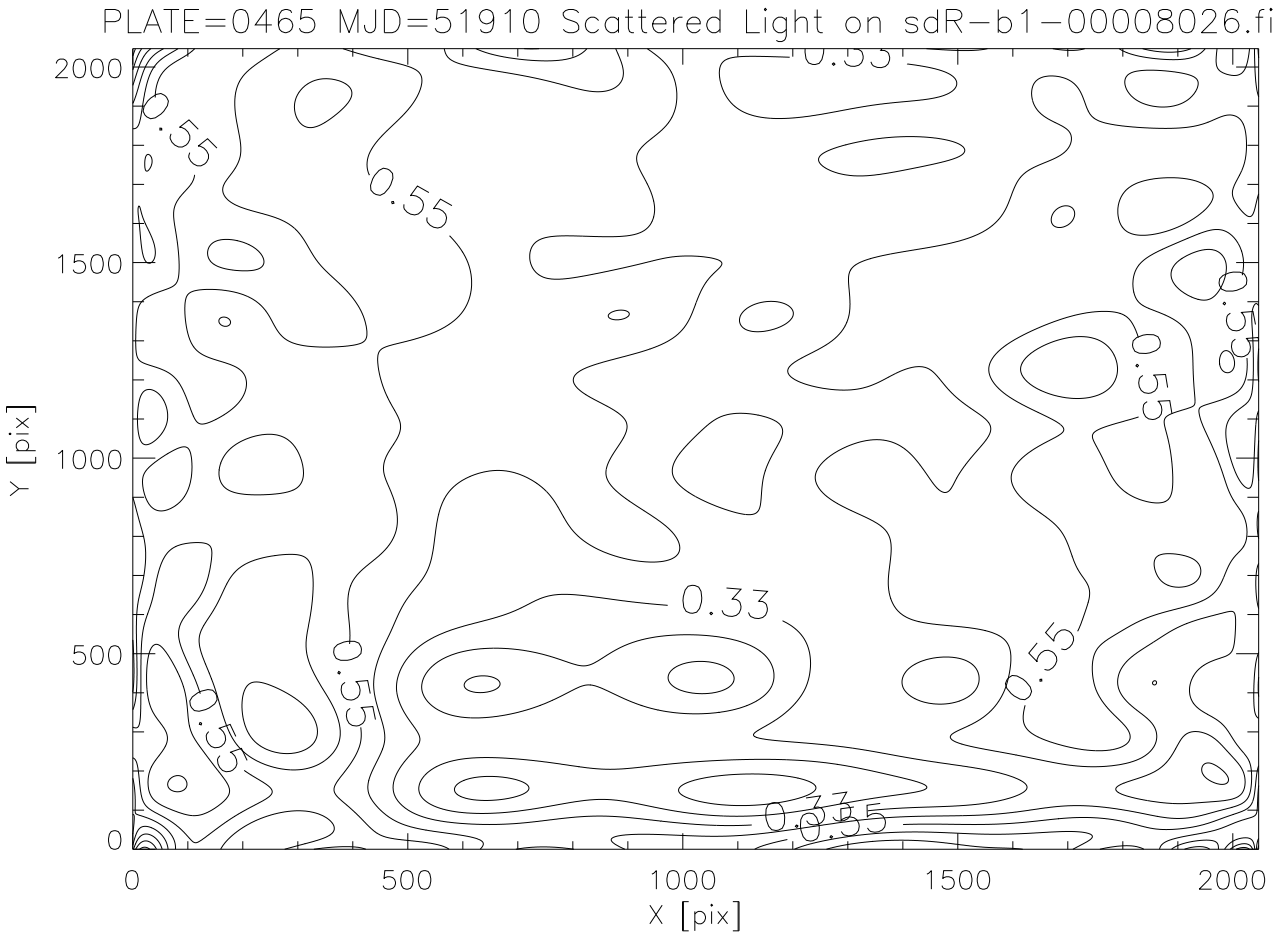
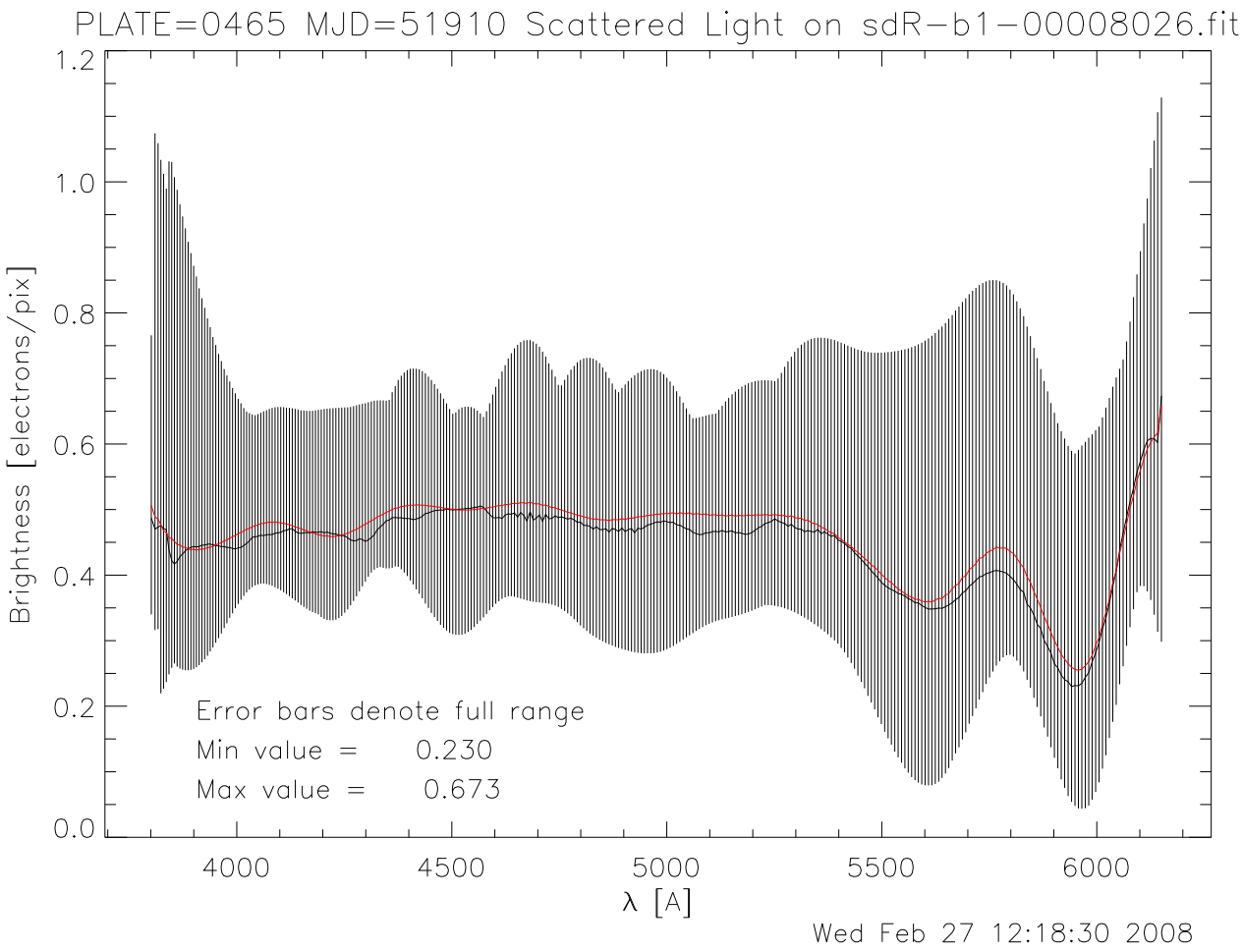
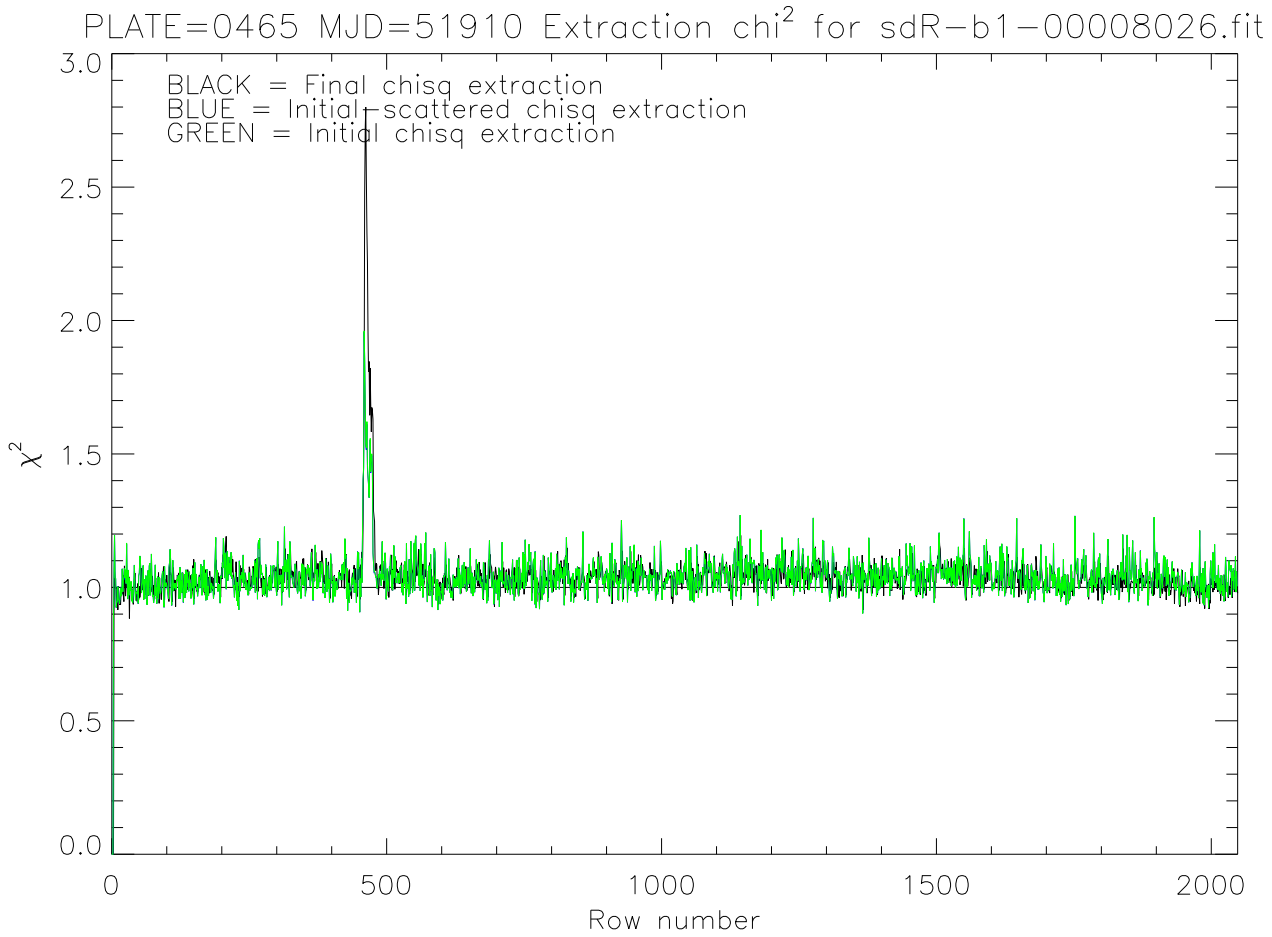
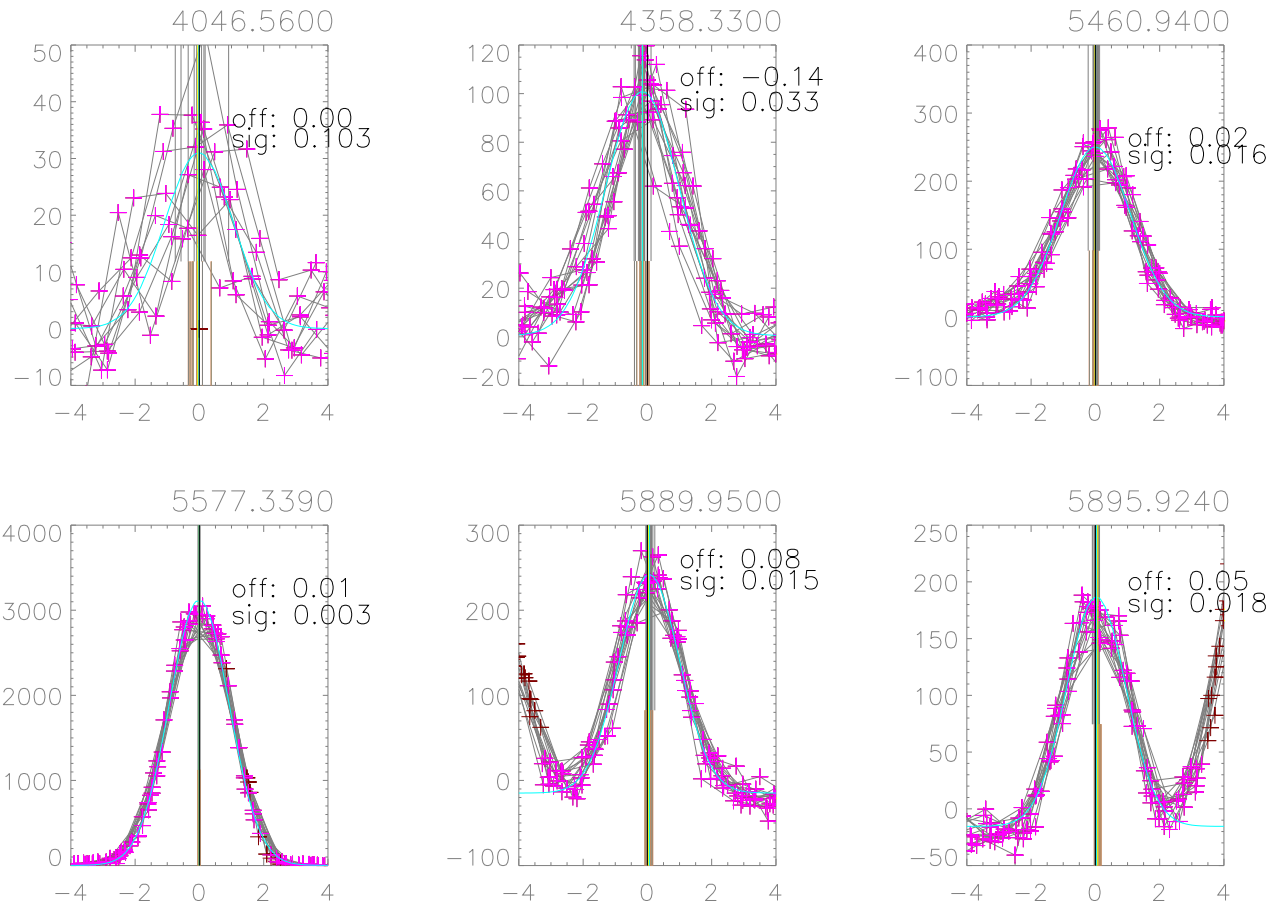
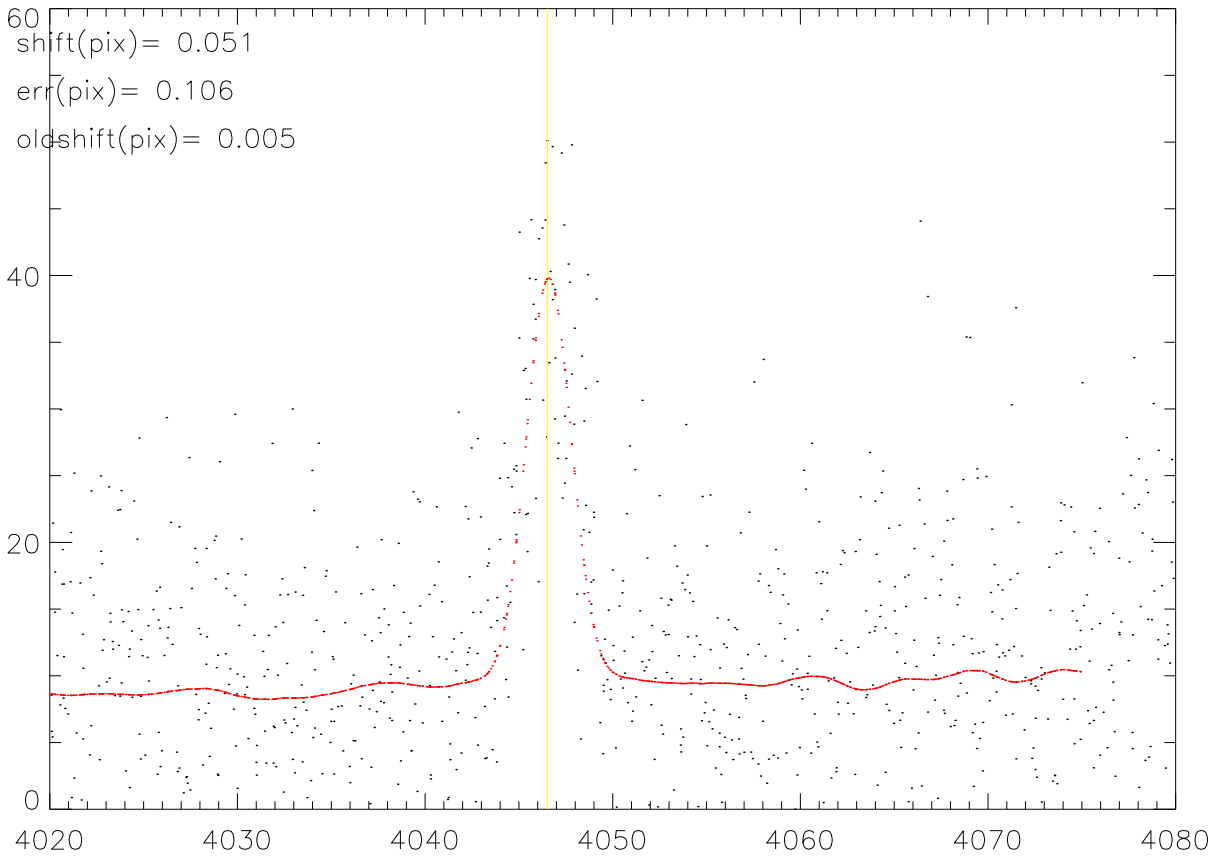
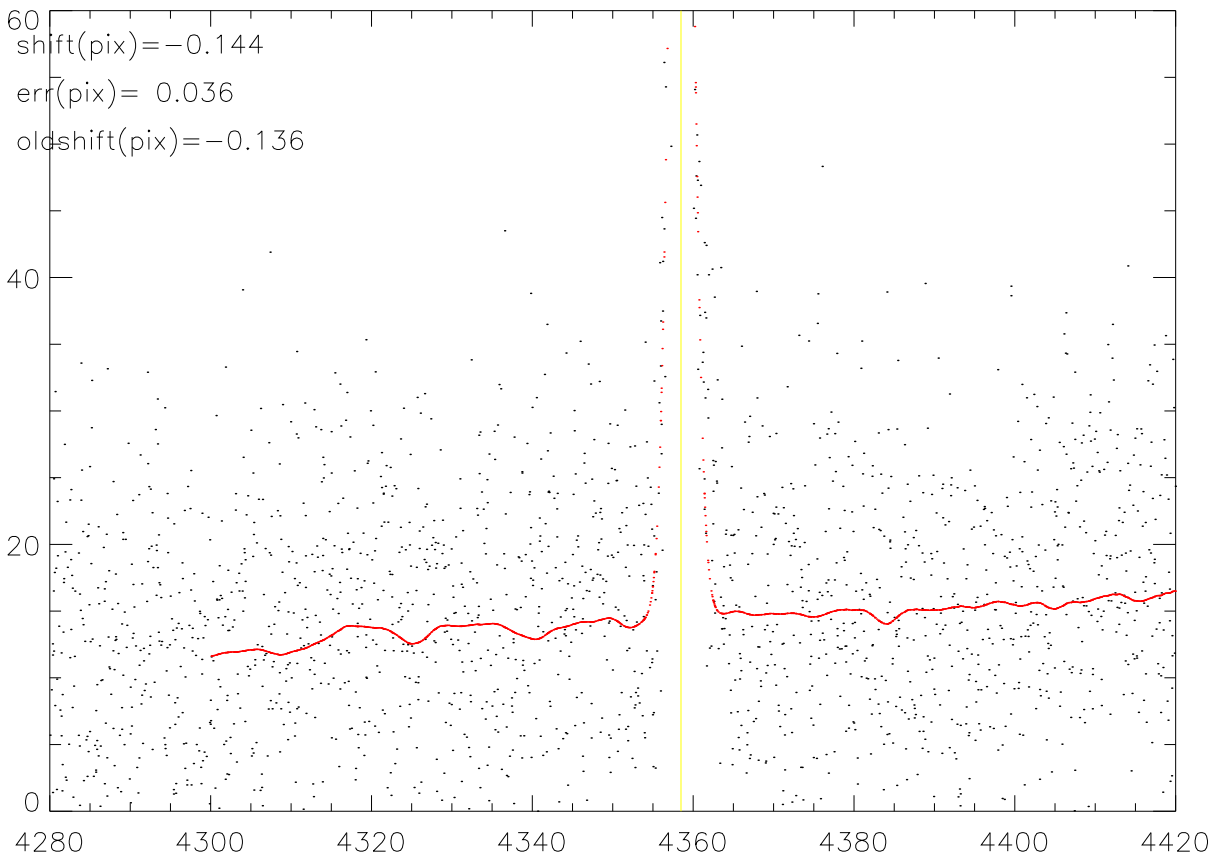

PLATE=0465 MJD=51910 Scattered Light on sdR-b1-00008026.fit
0.55
0.55
0.55
0.55
0.55
0.33
0.55
0.55
0.55
0.55
0.55

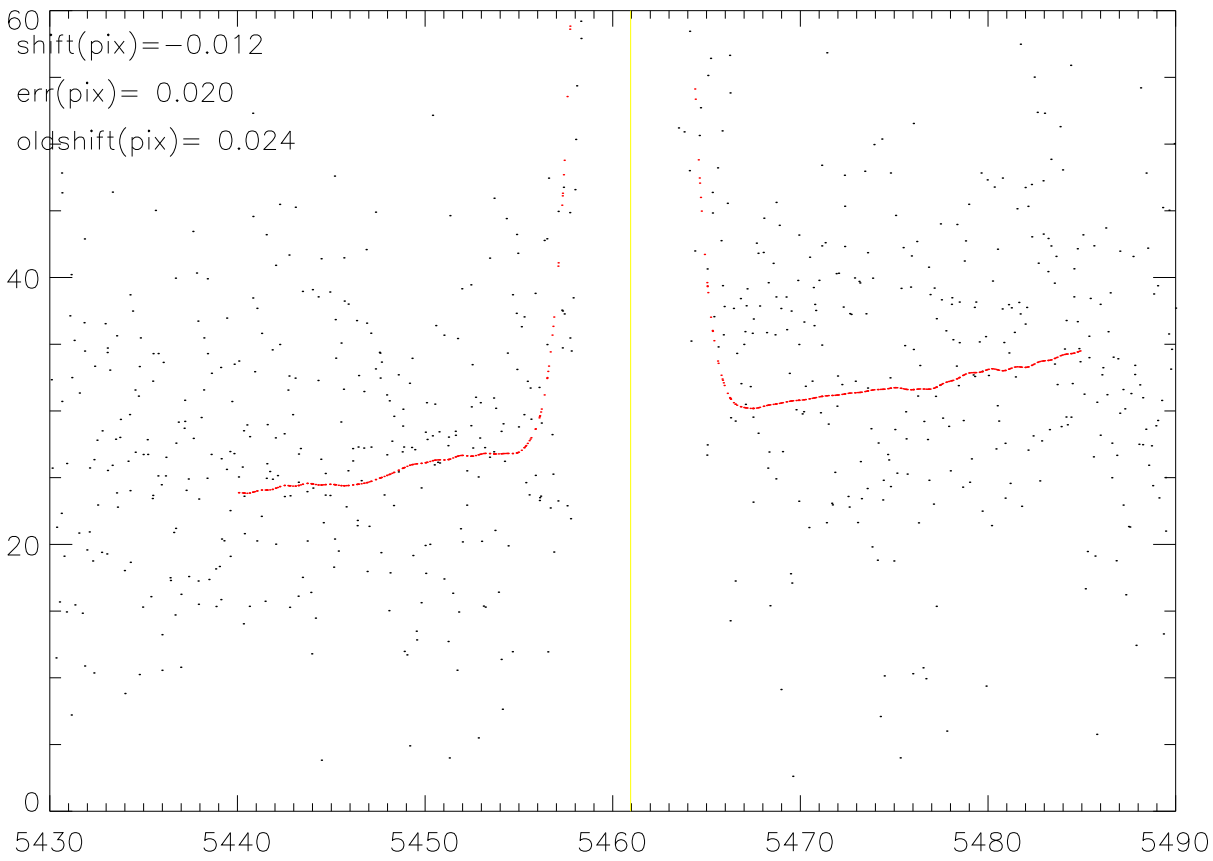

PLATE=0465 MJD=51910 Scattered Light on sdR-b1-00008026.fit
Brightness [electrons/pix]
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Error bars denote full range
Min value = 0.230
Max value = 0.673
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:18:30 2008

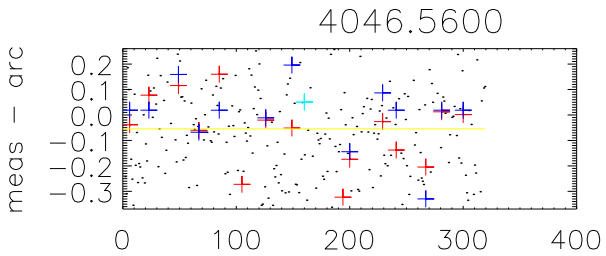

PLATE=0465 MJD=51910 Extraction chi^2 for sdR-b1-00008026.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

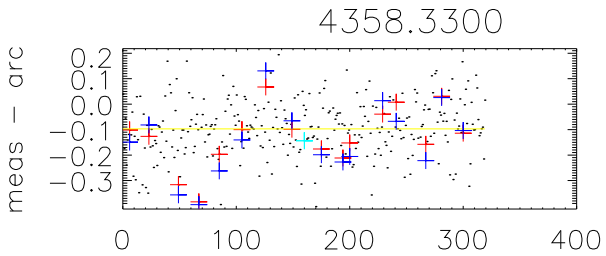

4046.5600
off: 0.00
sig: 0.103
4358.3300
off: −0.14
sig: 0.033
5460.9400
off: 0.02
sig: 0.016
5577.3390
off: 0.01
sig: 0.003
5889.9500
off: 0.08
sig: 0.015
5895.9240
off: 0.05
sig: 0.018

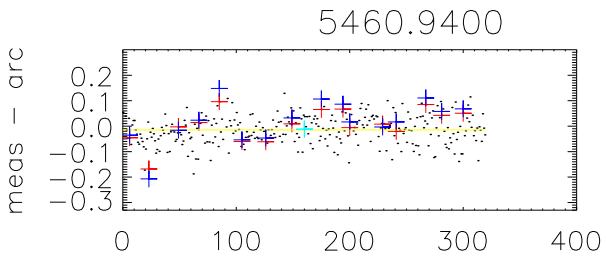

shift(pix)= 0.051
err(pix)= 0.106
oldshift(pix)= 0.005
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

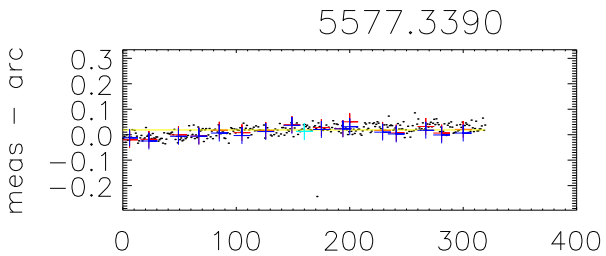

shift(pix)=−0.144
err(pix)= 0.036
oldshift(pix)=−0.136
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

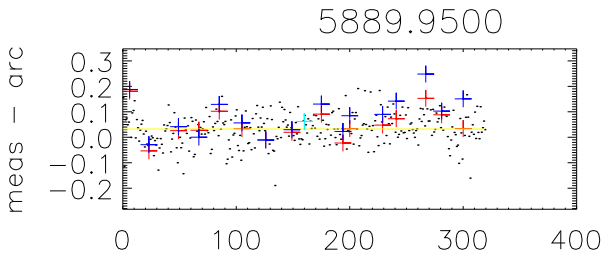

shift(pix)=−0.012
err(pix)= 0.020
oldshift(pix)= 0.024
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

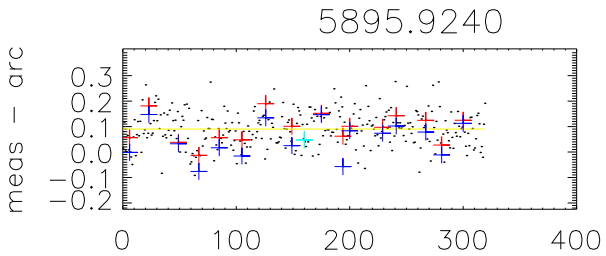

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

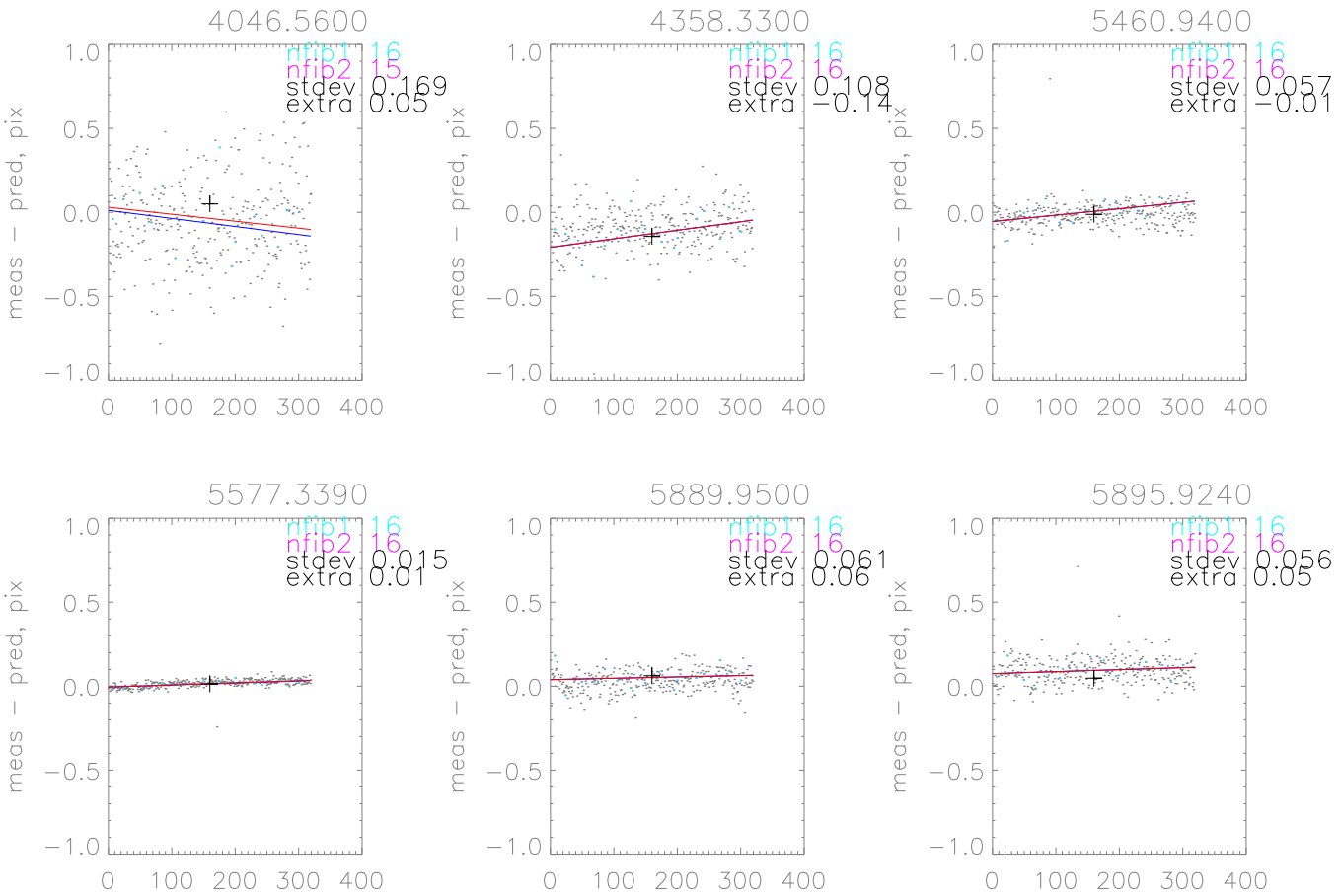

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

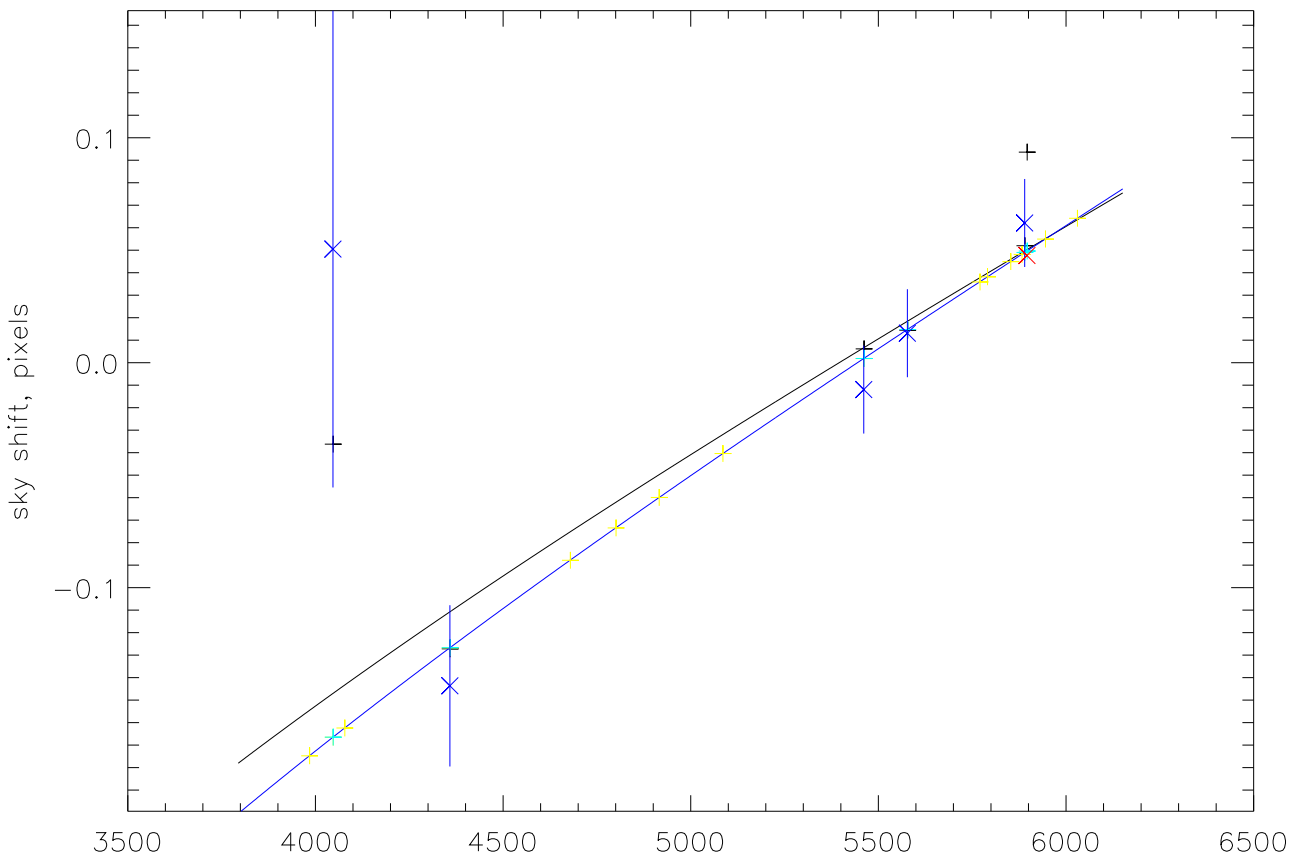

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

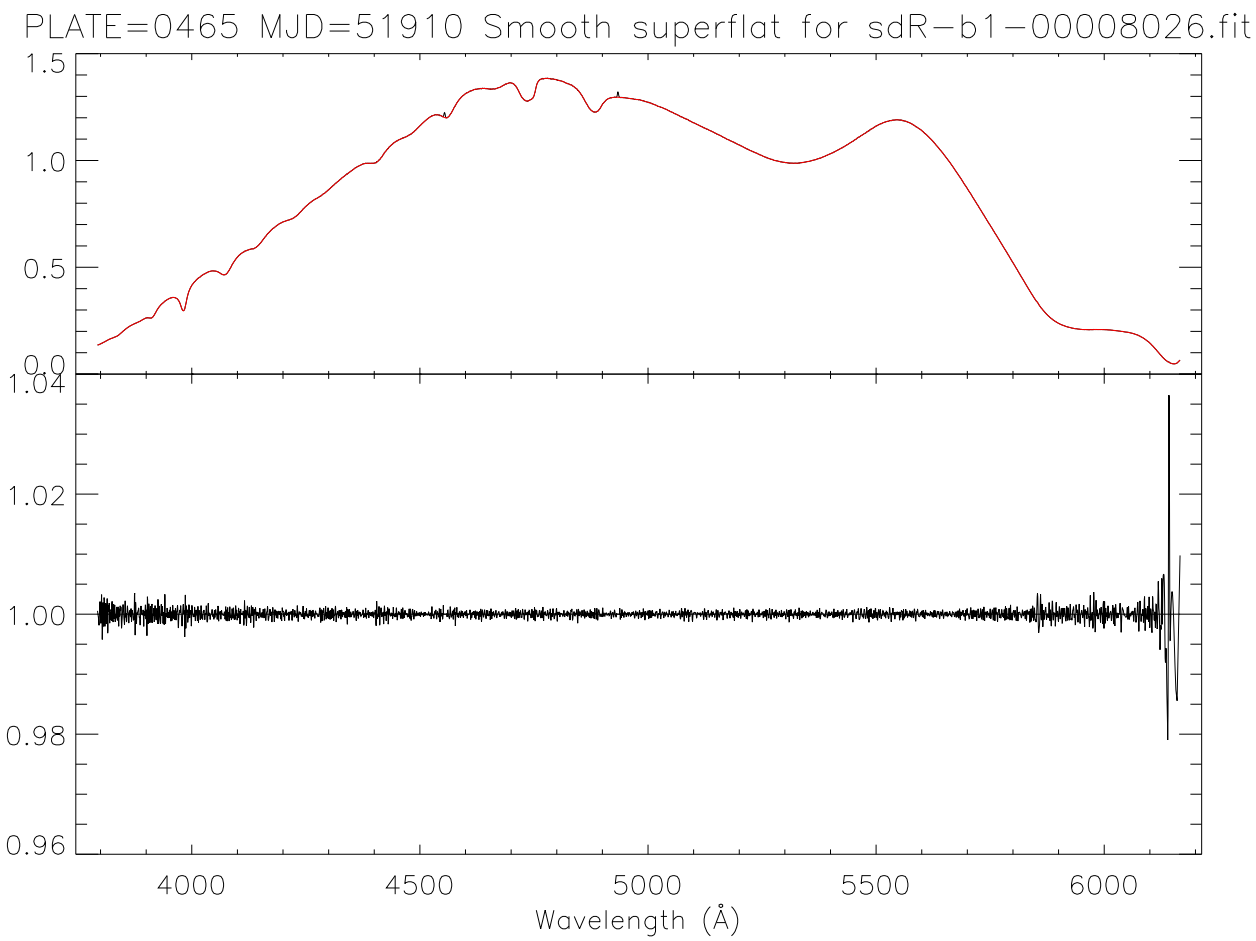

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

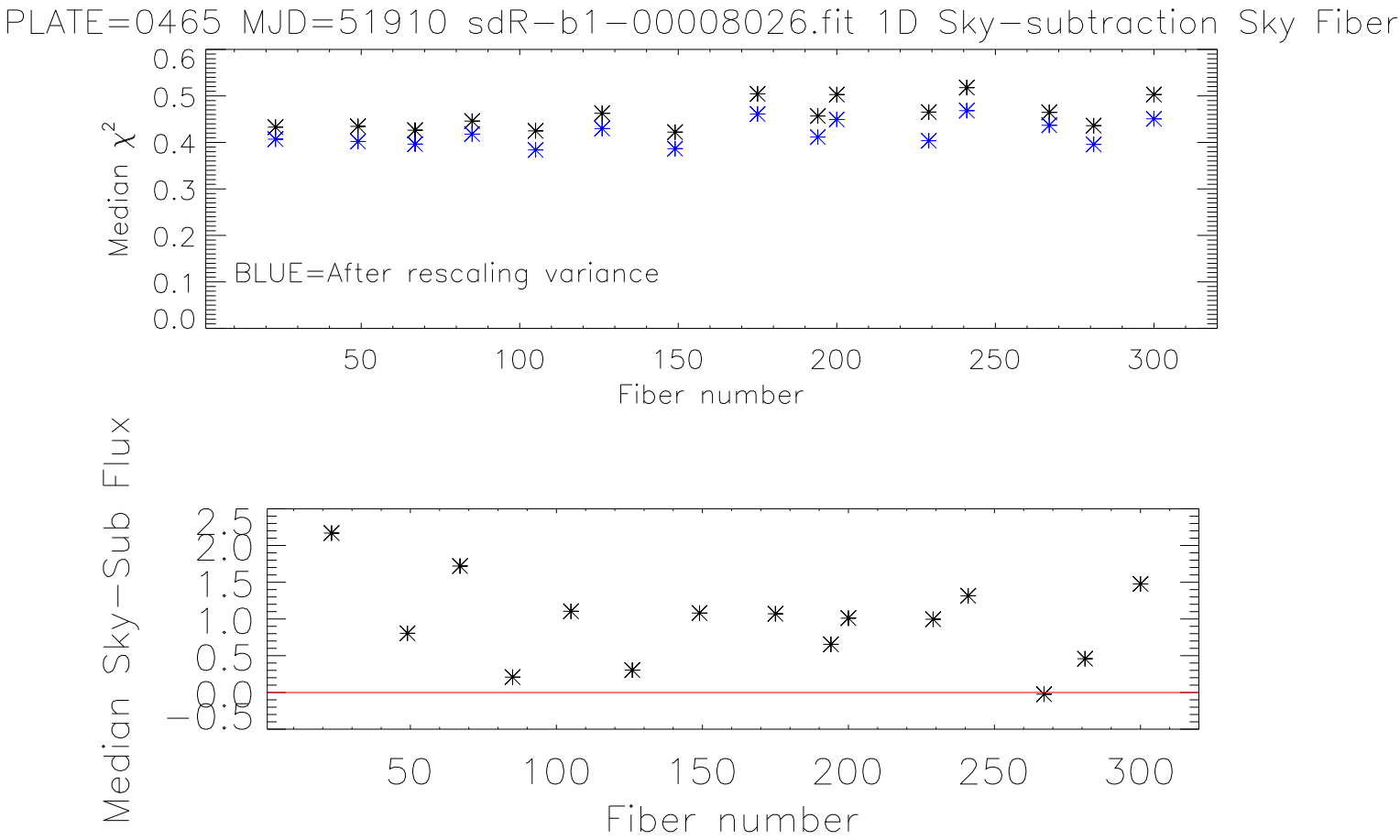

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

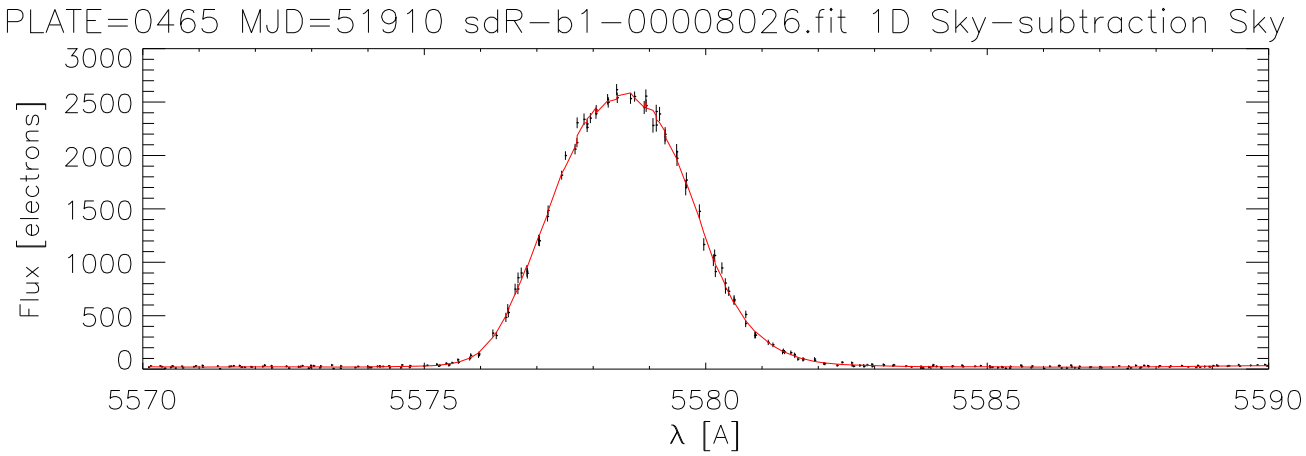

4046.5600
nfib1 16
nfib2 15
stdev 0.169
extra 0.05
4358.3300
nfib1 16
nfib2 16
stdev 0.108
extra −0.14
5460.9400
nfib1 16
nfib2 16
stdev 0.057
extra −0.01
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra 0.01
5889.9500
nfib1 16
nfib2 16
stdev 0.061
extra 0.06
5895.9240
nfib1 16
nfib2 16
stdev 0.056
extra 0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

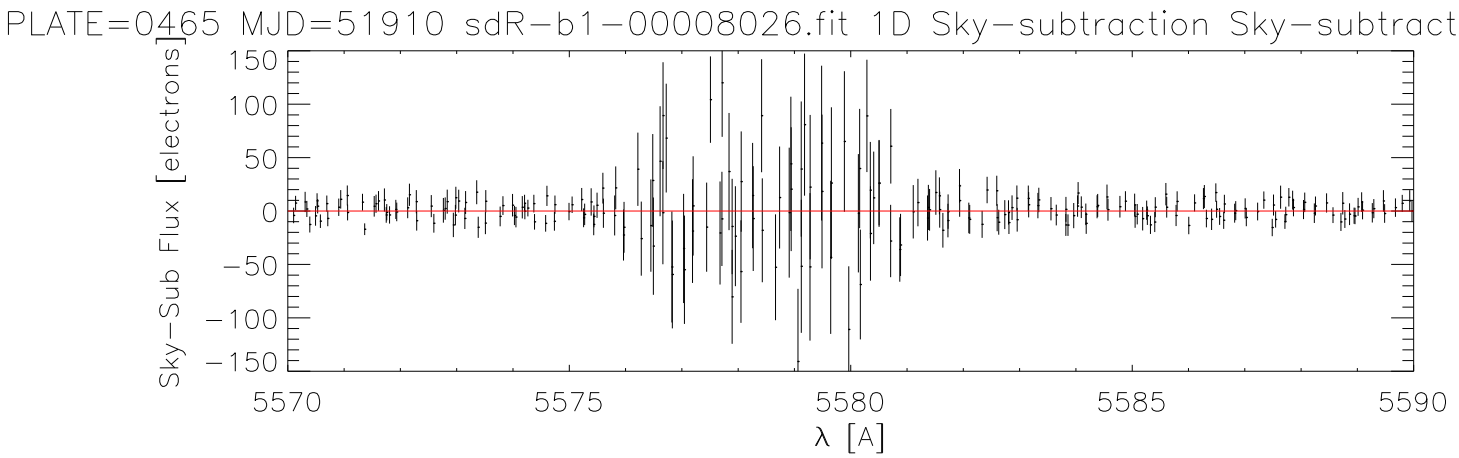

sky shift, pixels
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

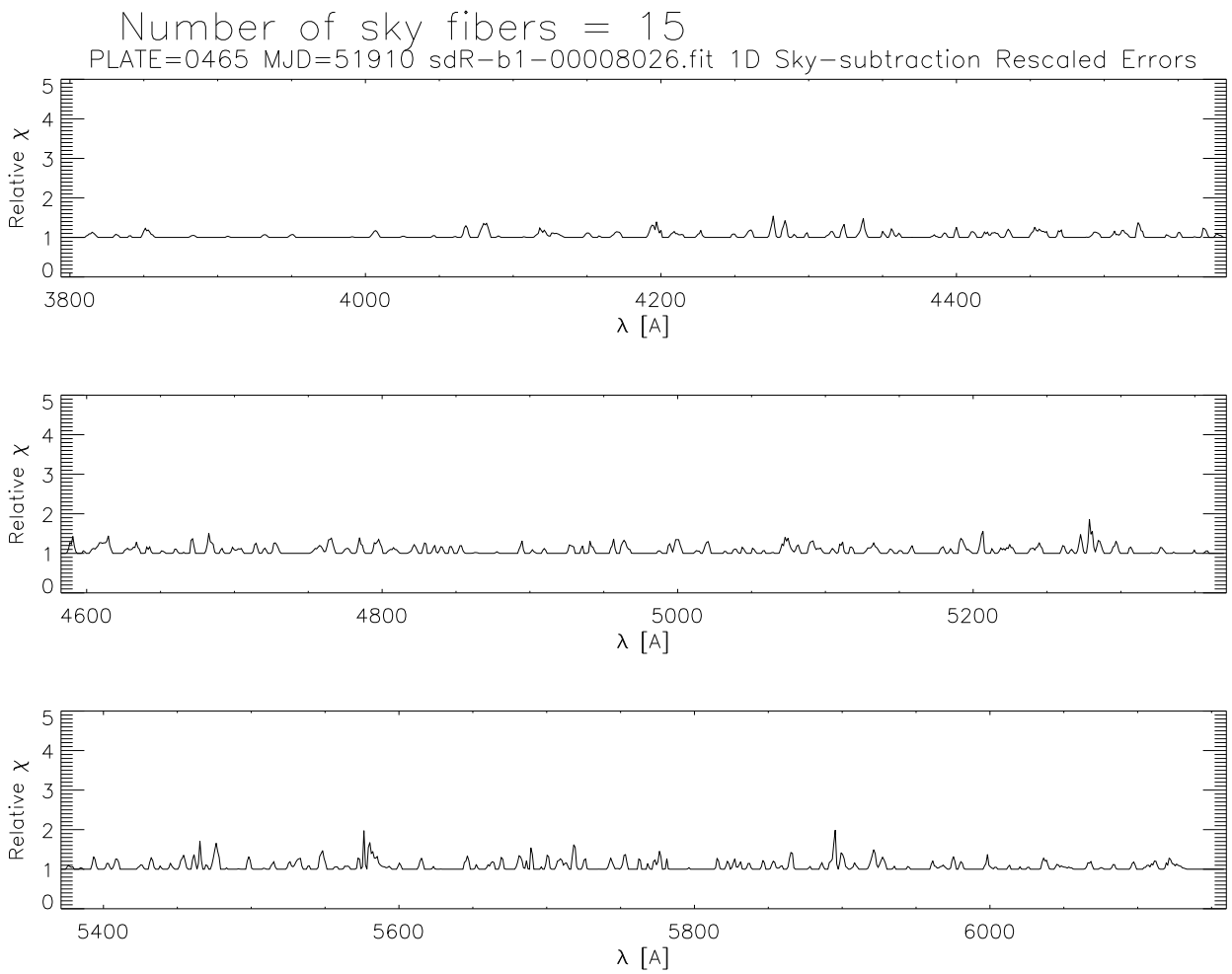
es= 0.0000

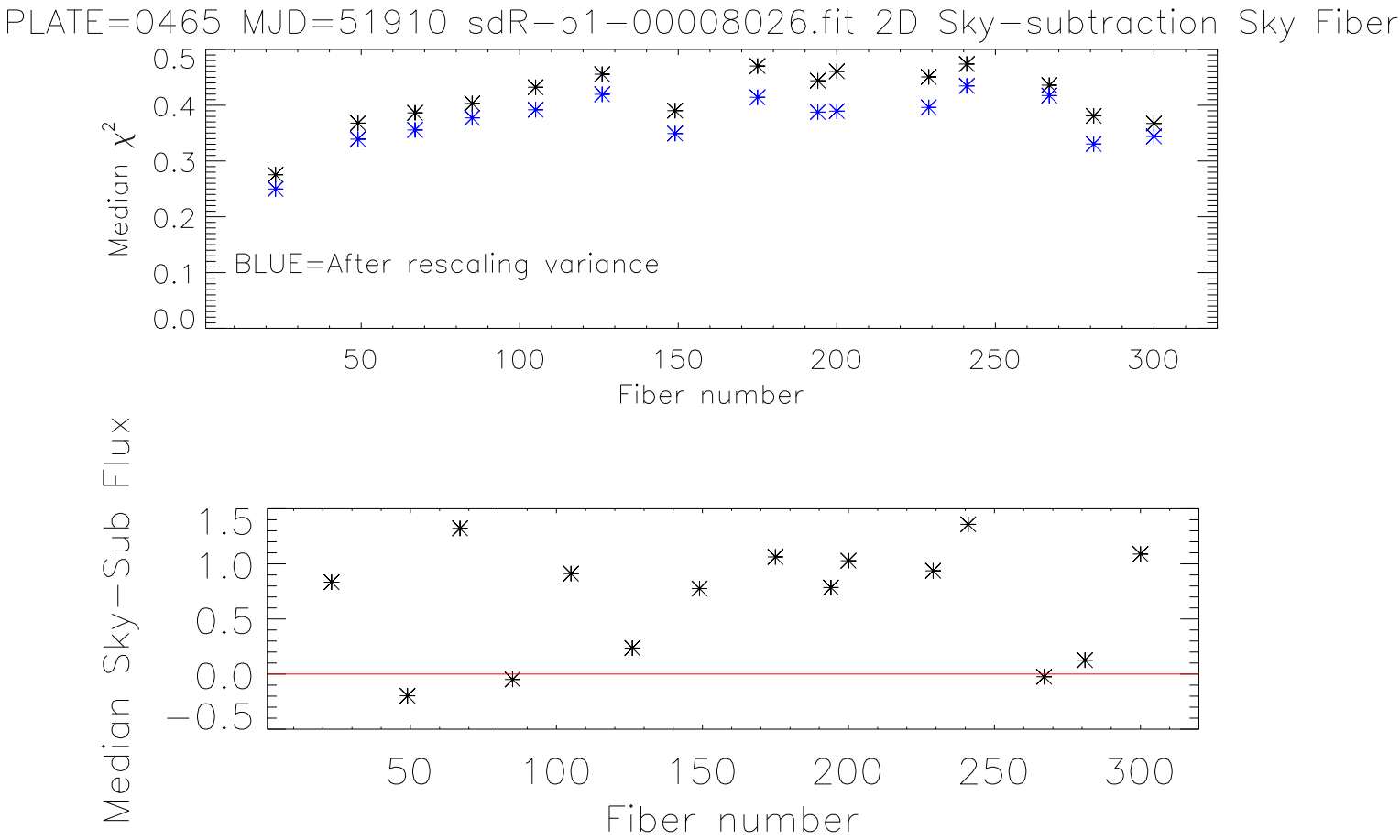

PLATE=0465 MJD=51910 Smooth superflat for sdR-b1-00008026.fit
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

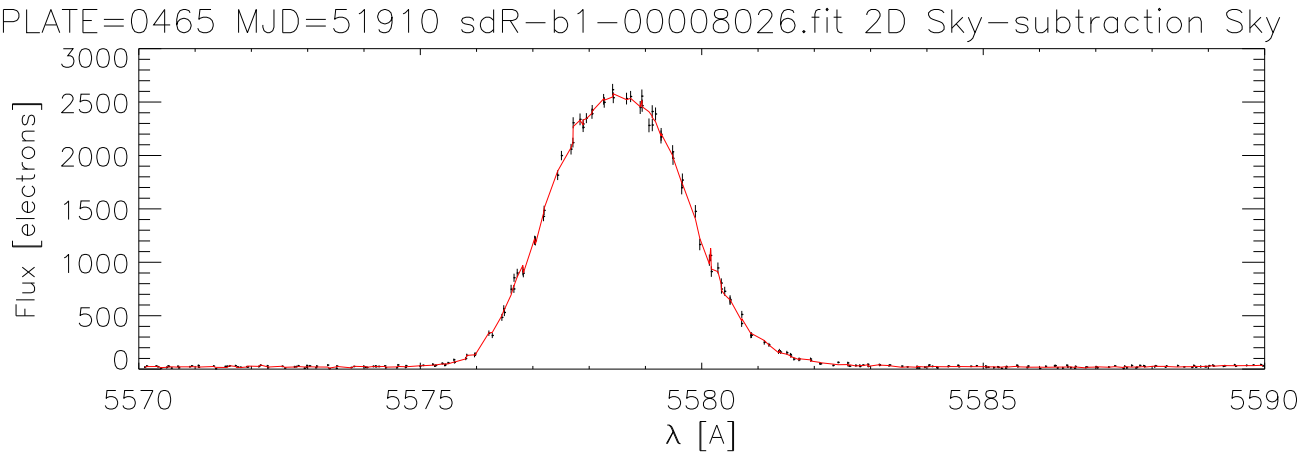

PLATE=0465 MJD=51910 sdR-b1-00008026.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

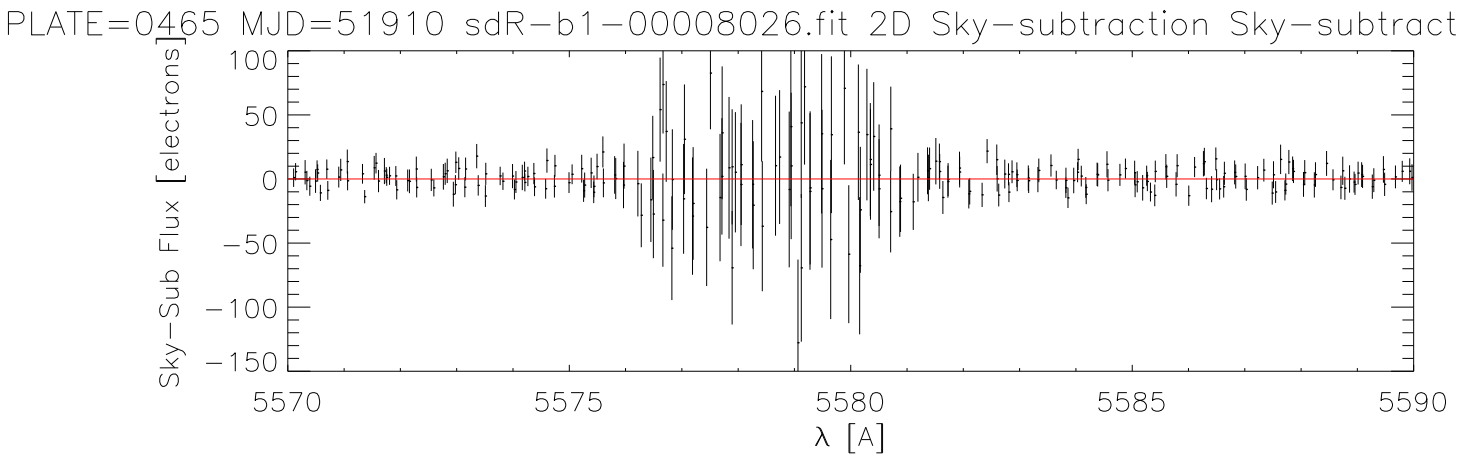

PLATE=0465 MJD=51910 sdR-b1-00008026.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

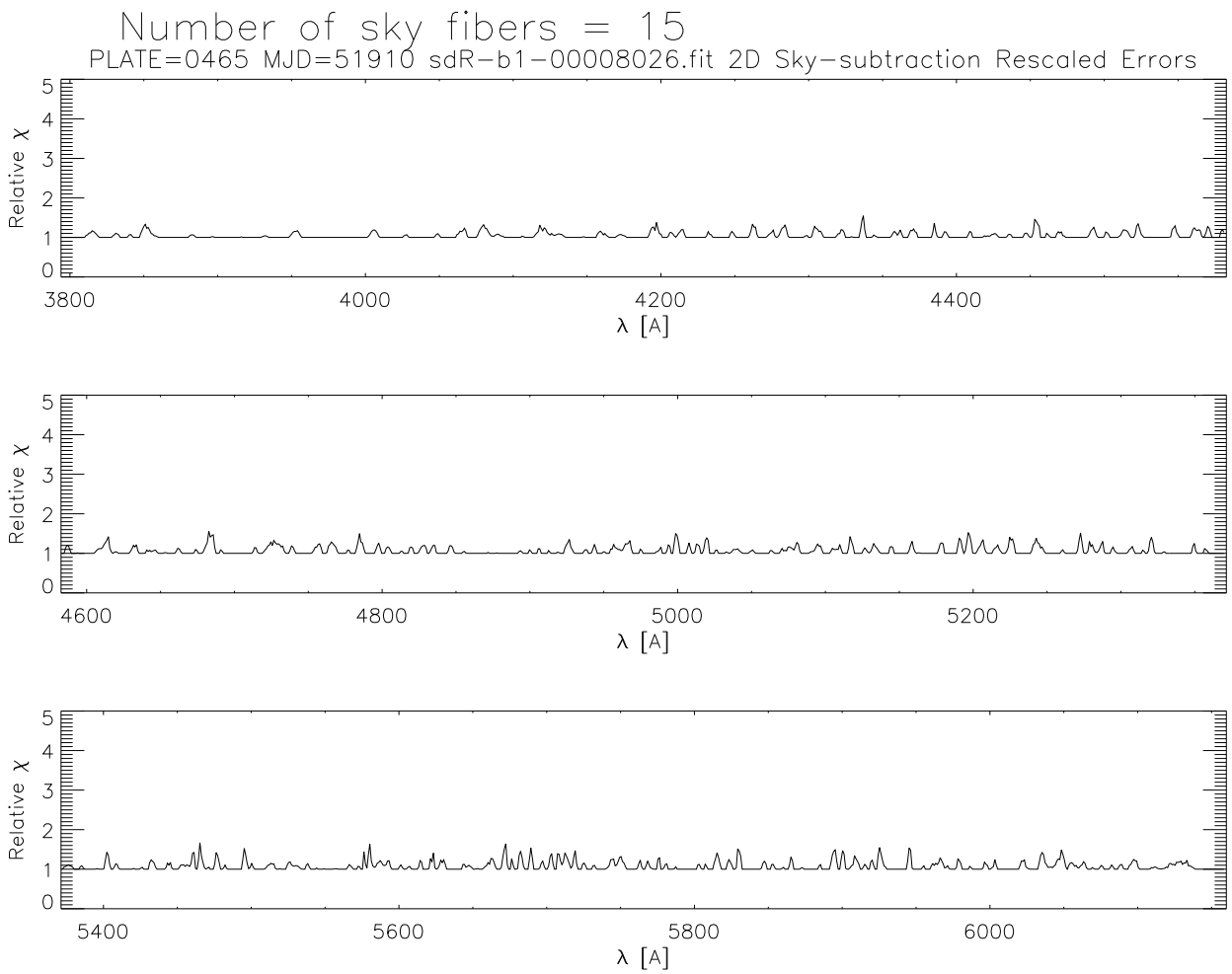

PLATE=0465 MJD=51910 sdR-b1-00008026.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

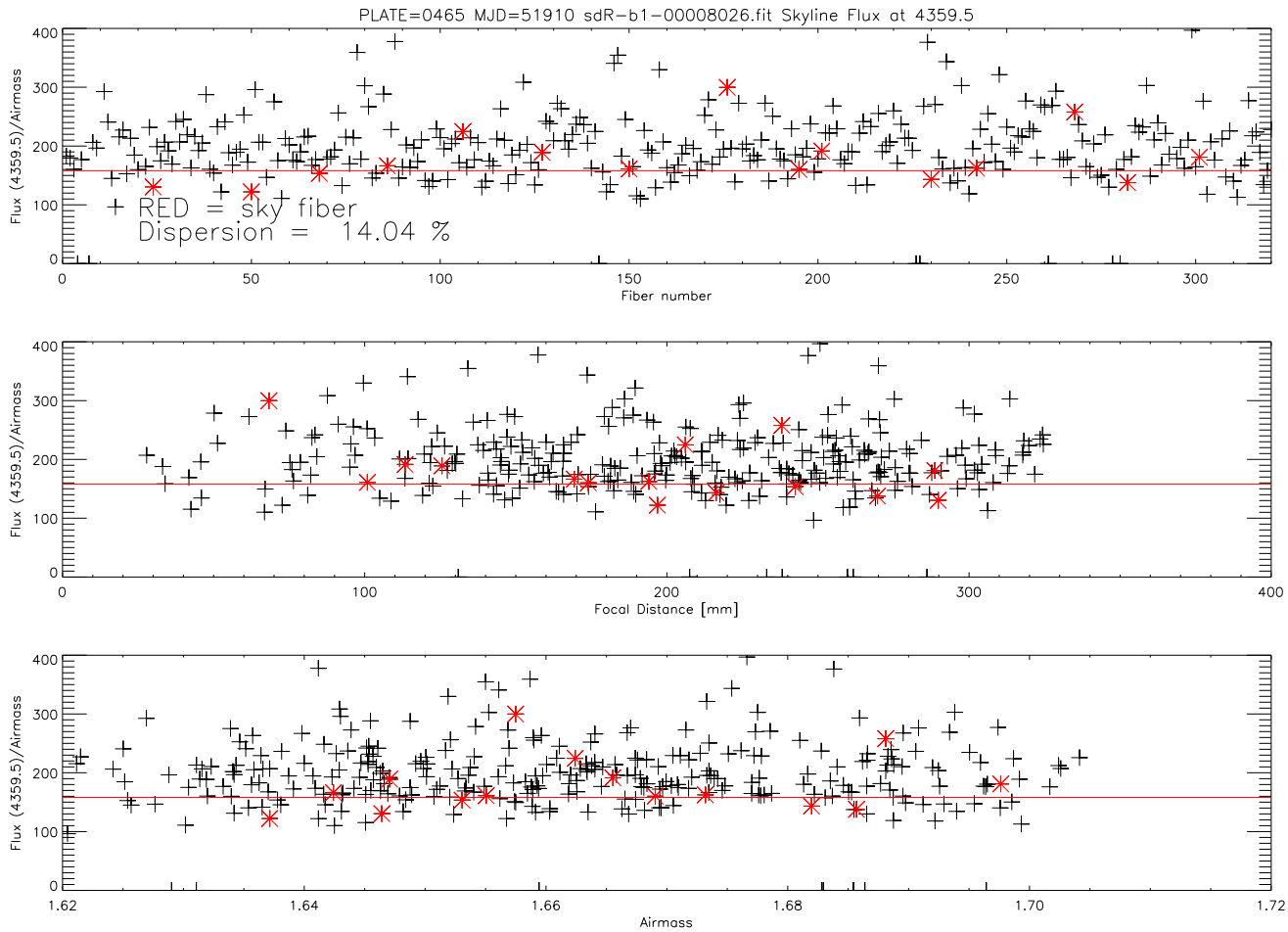

Number of sky fibers = 15
PLATE=0465 MJD=51910 sdR-b1-00008026.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

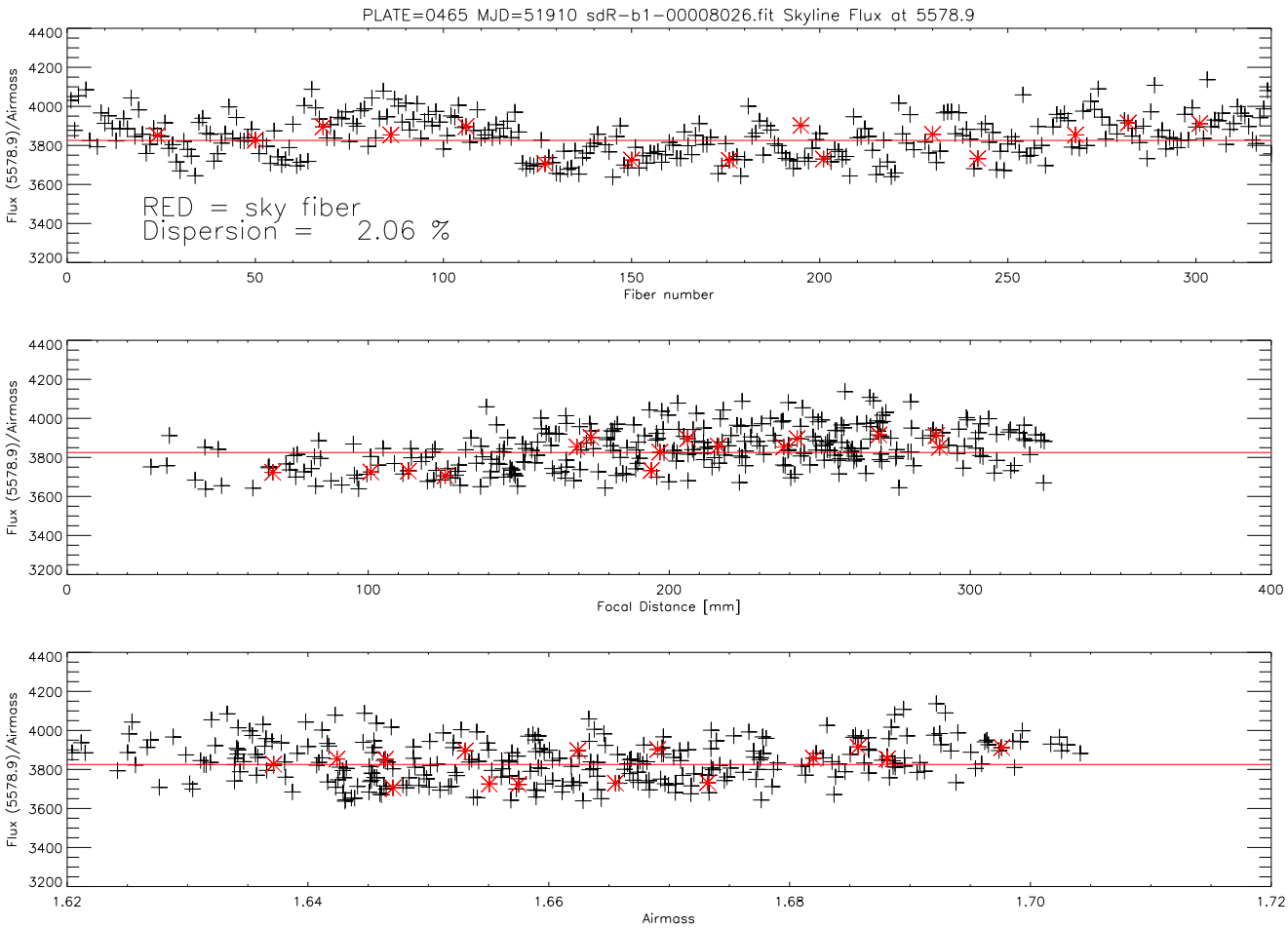

PLATE=0465 MJD=51910 sdR-b1-00008026.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

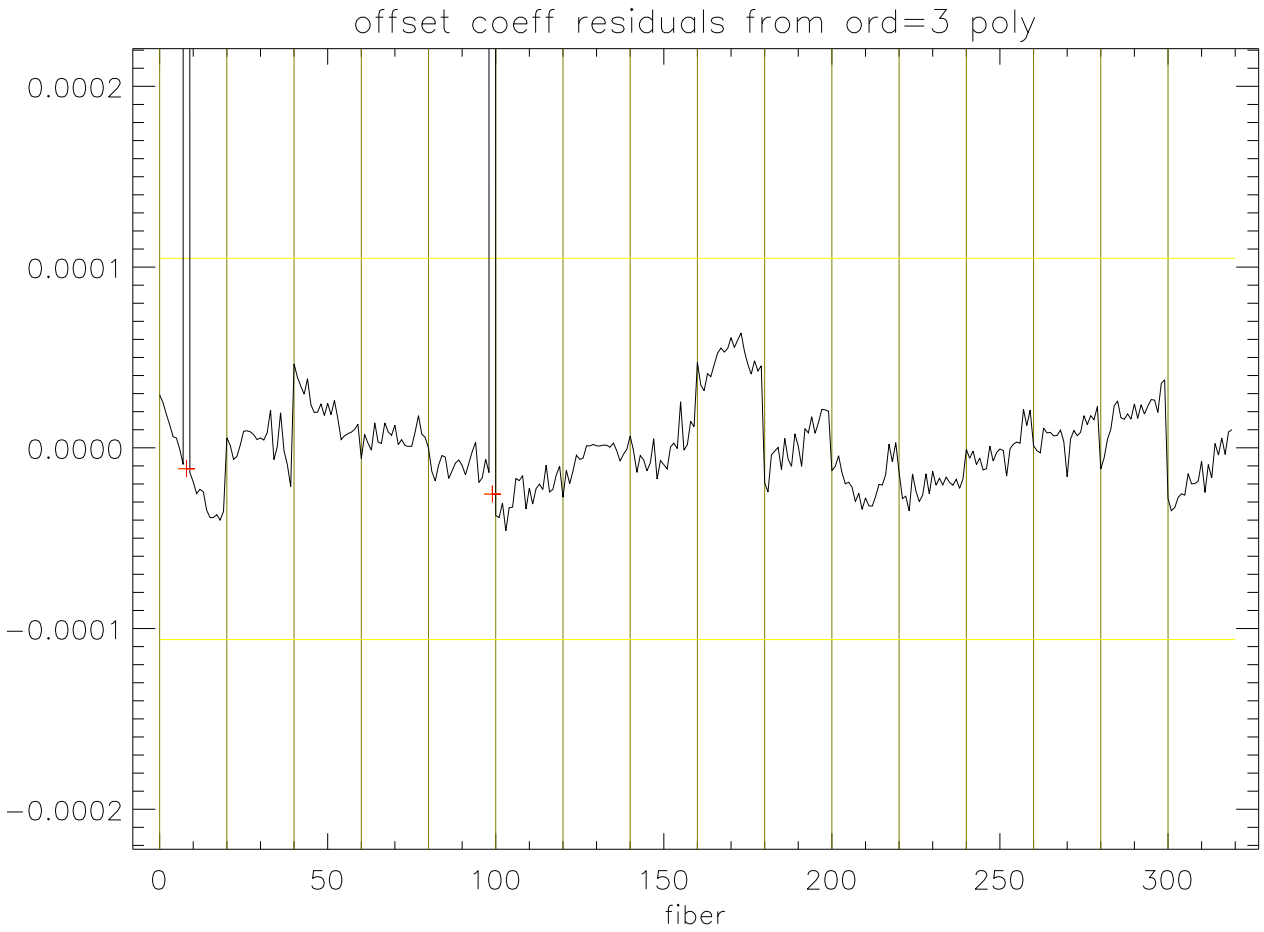

PLATE=0465 MJD=51910 sdR-b1-00008026.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

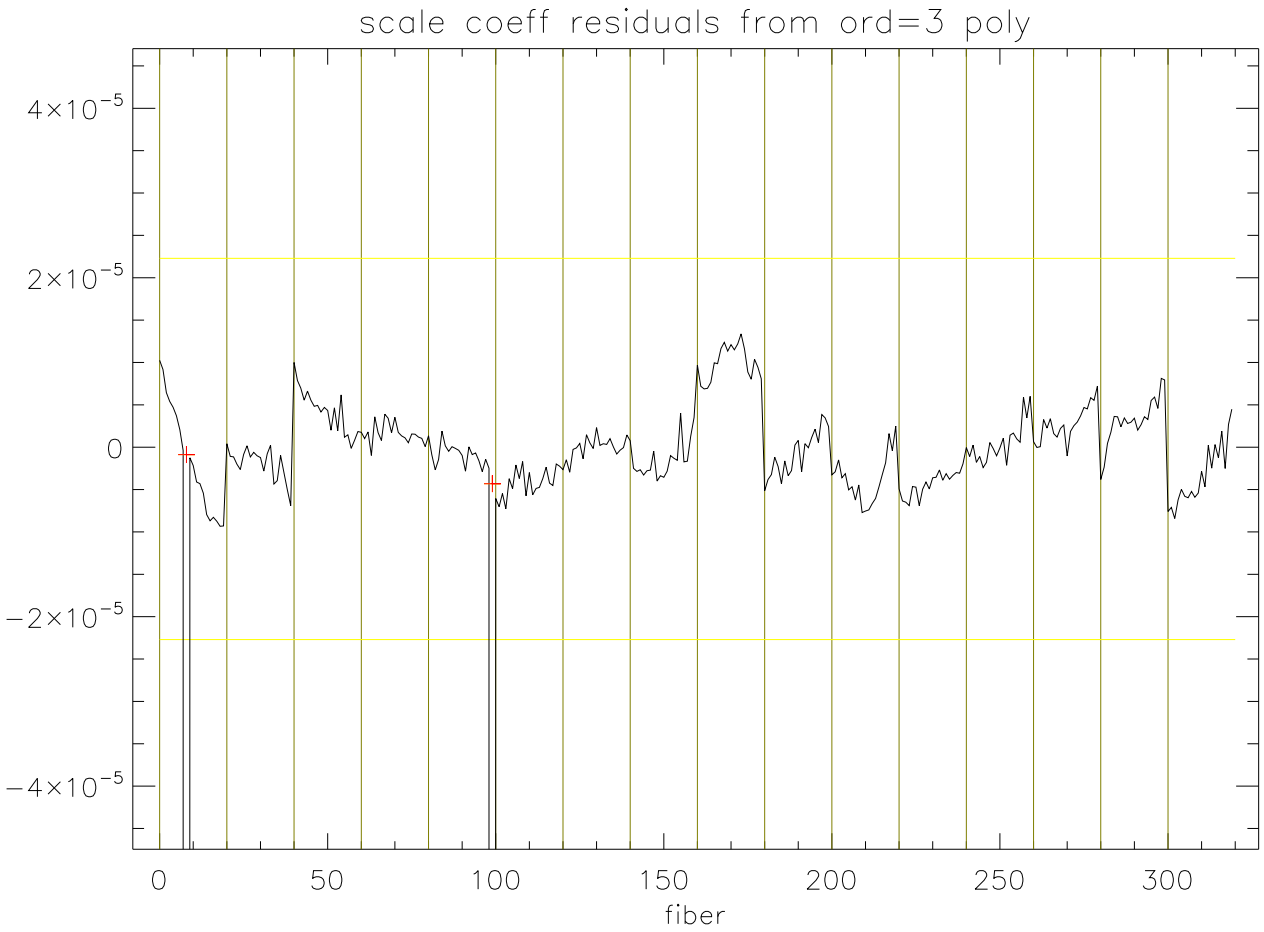

PLATE=0465 MJD=51910 sdR-b1-00008026.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

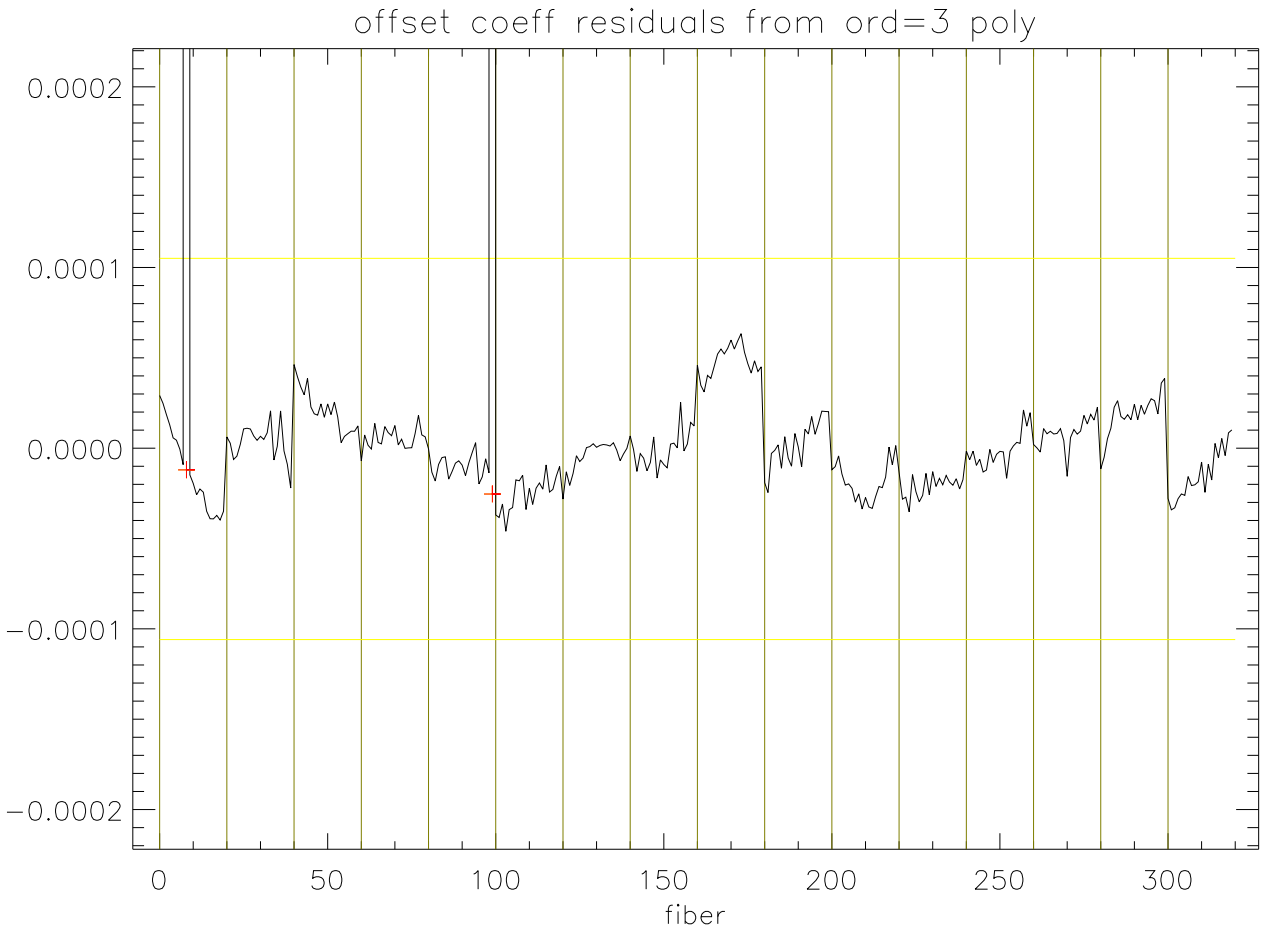

Number of sky fibers = 15
PLATE=0465 MJD=51910 sdR-b1-00008026.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

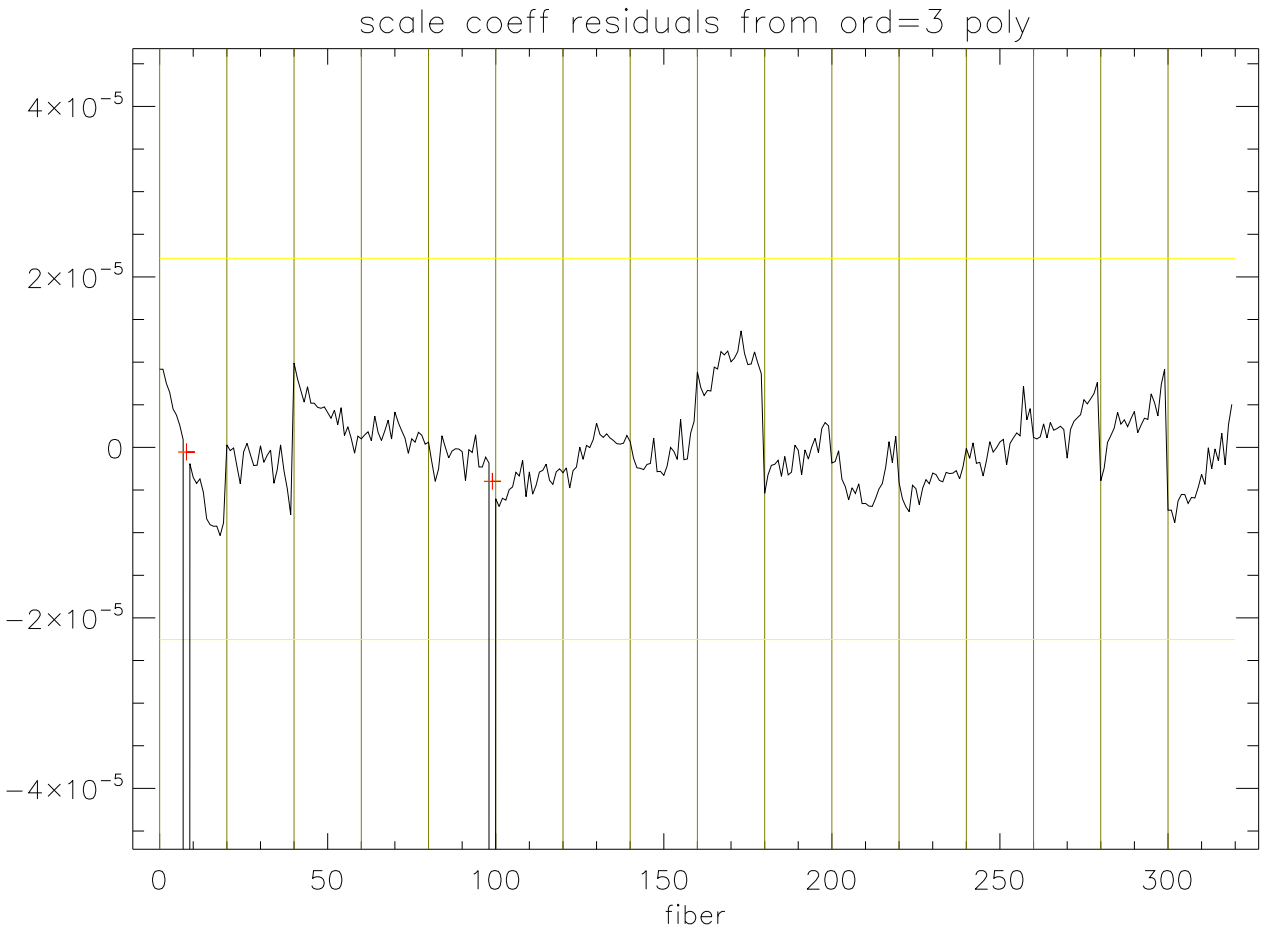

PLATE=0465 MJD=51910 sdR-b1-00008026.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
+ RED = sky fiber
Dispersion = 14.04 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

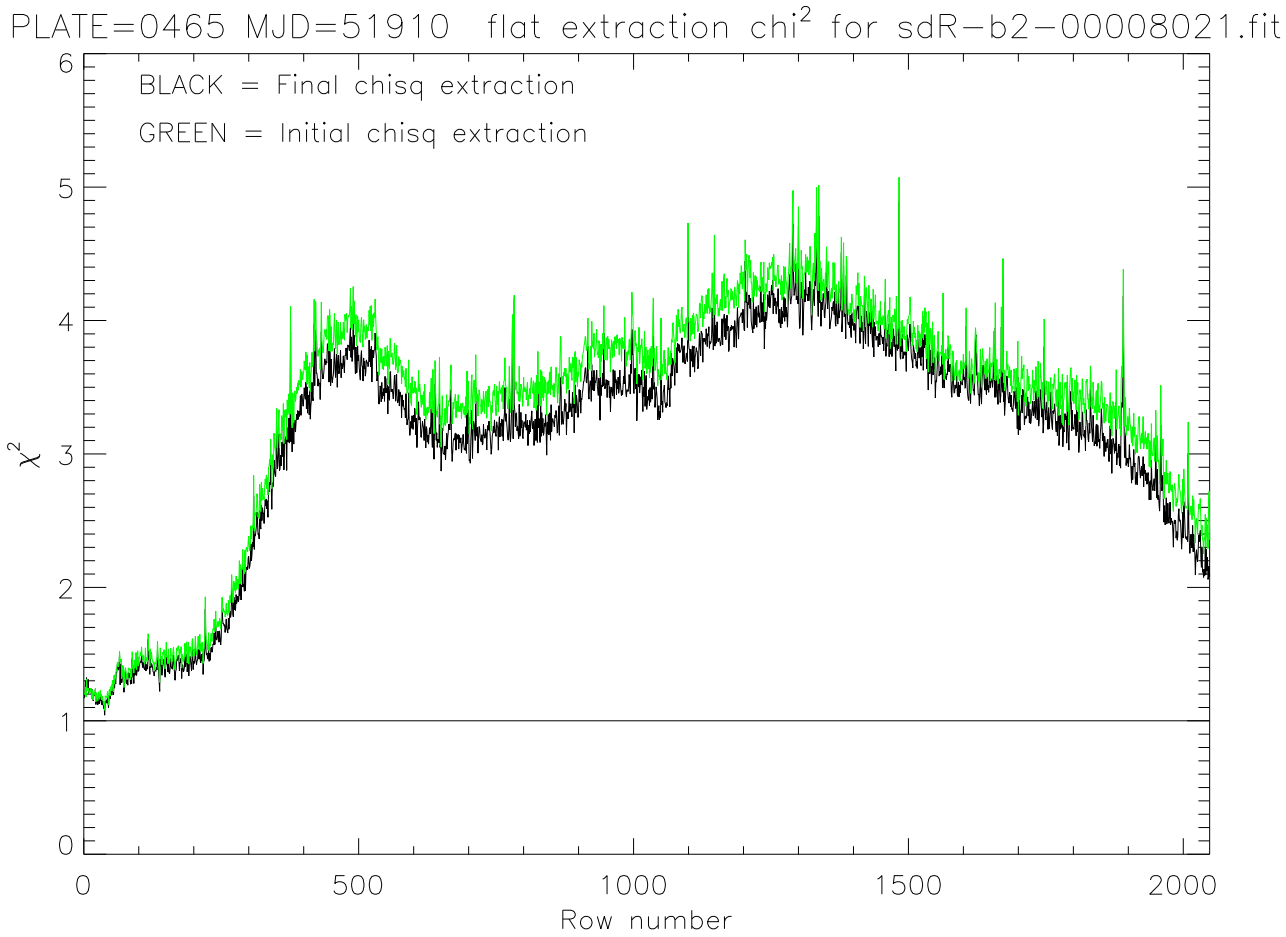

PLATE=0465 MJD=51910 sdR-b1-00008026.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.06 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

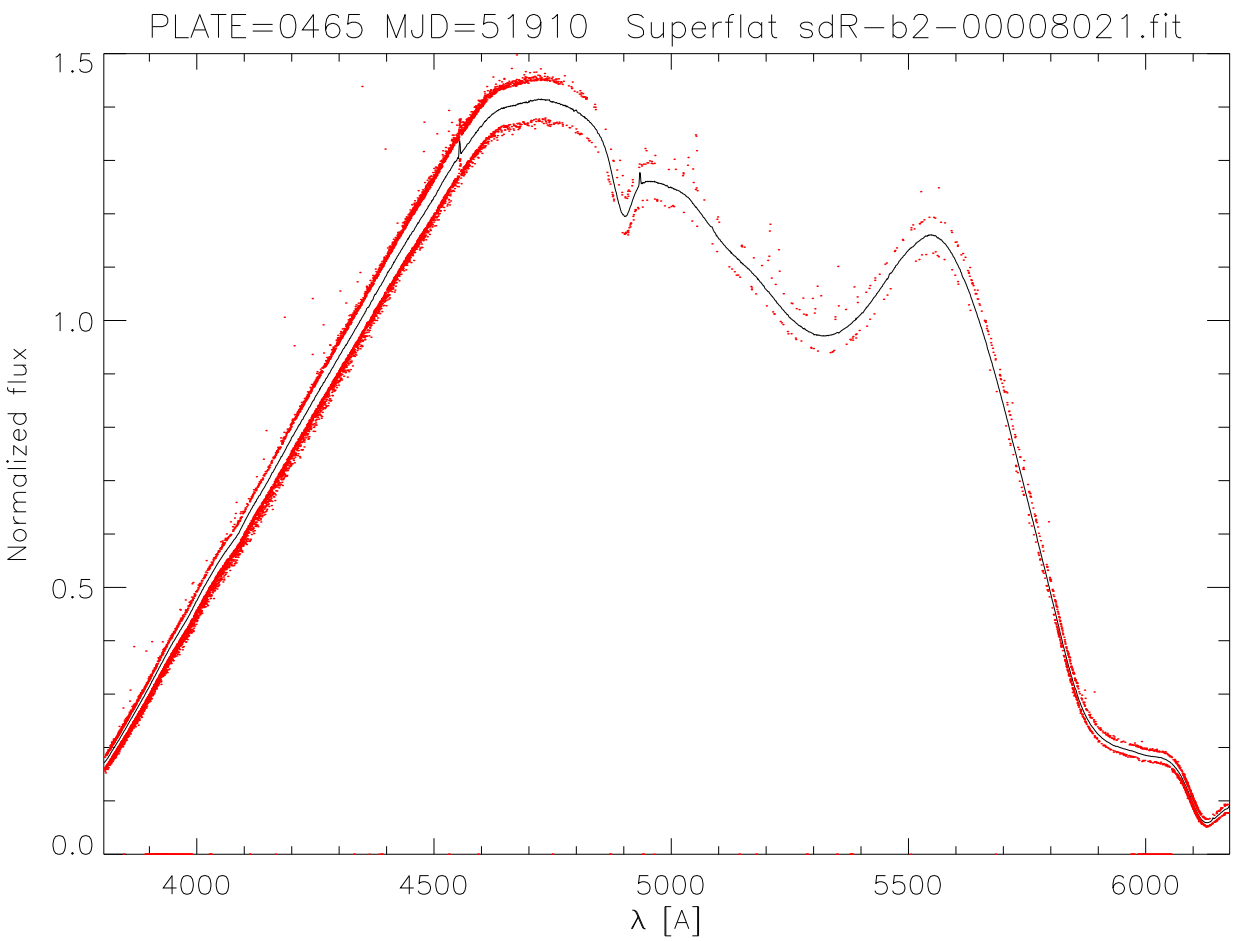

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

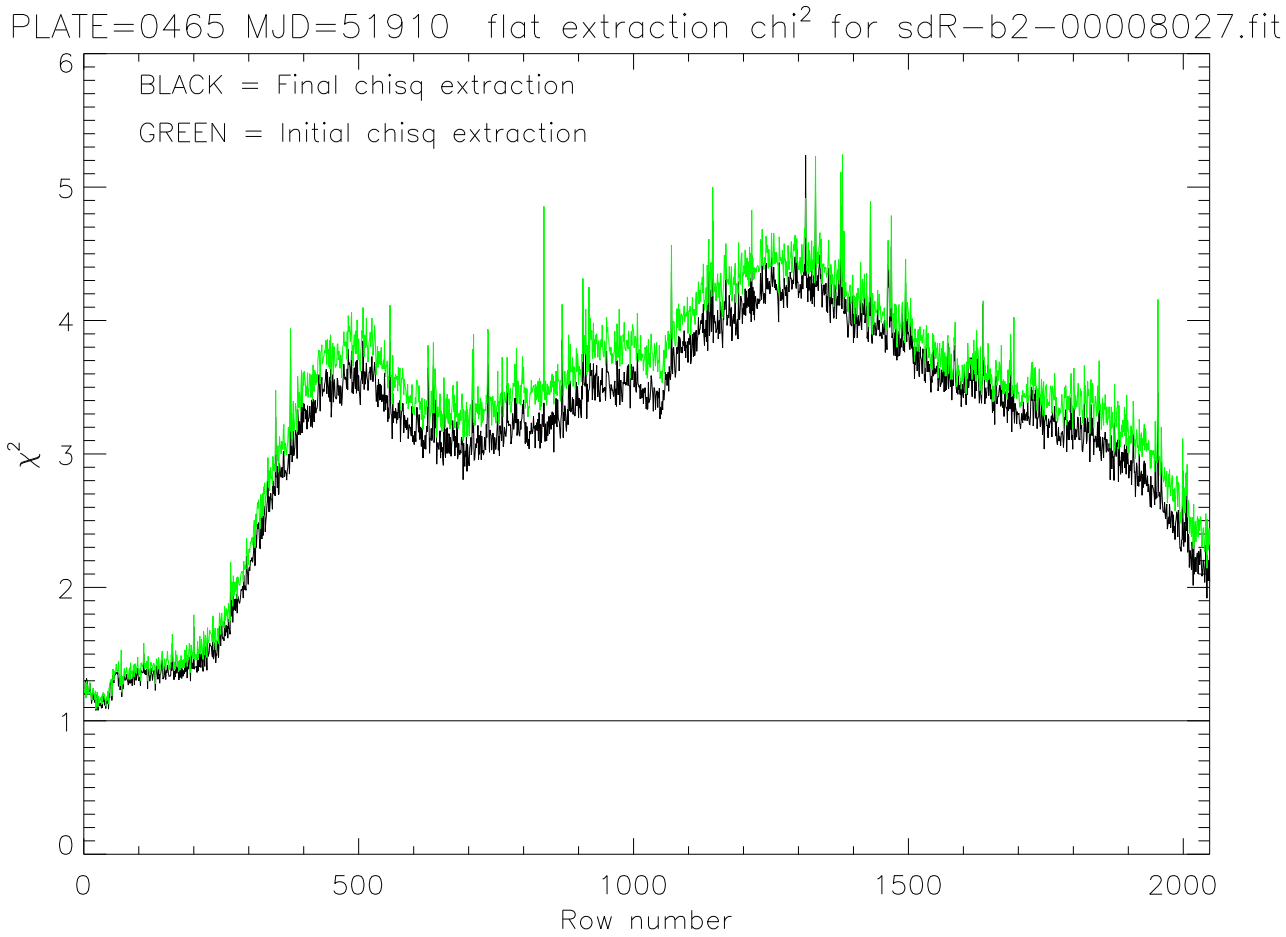

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

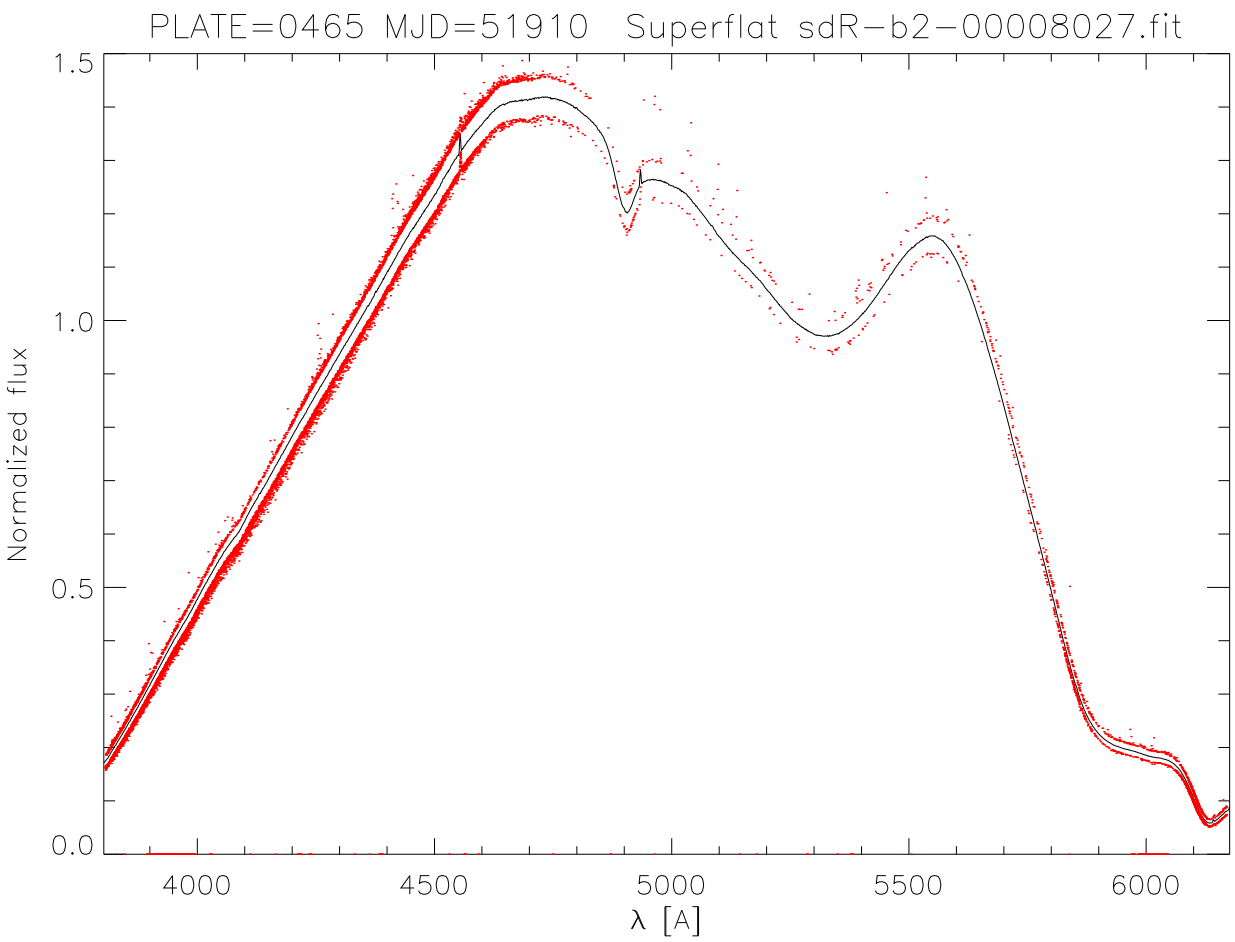

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

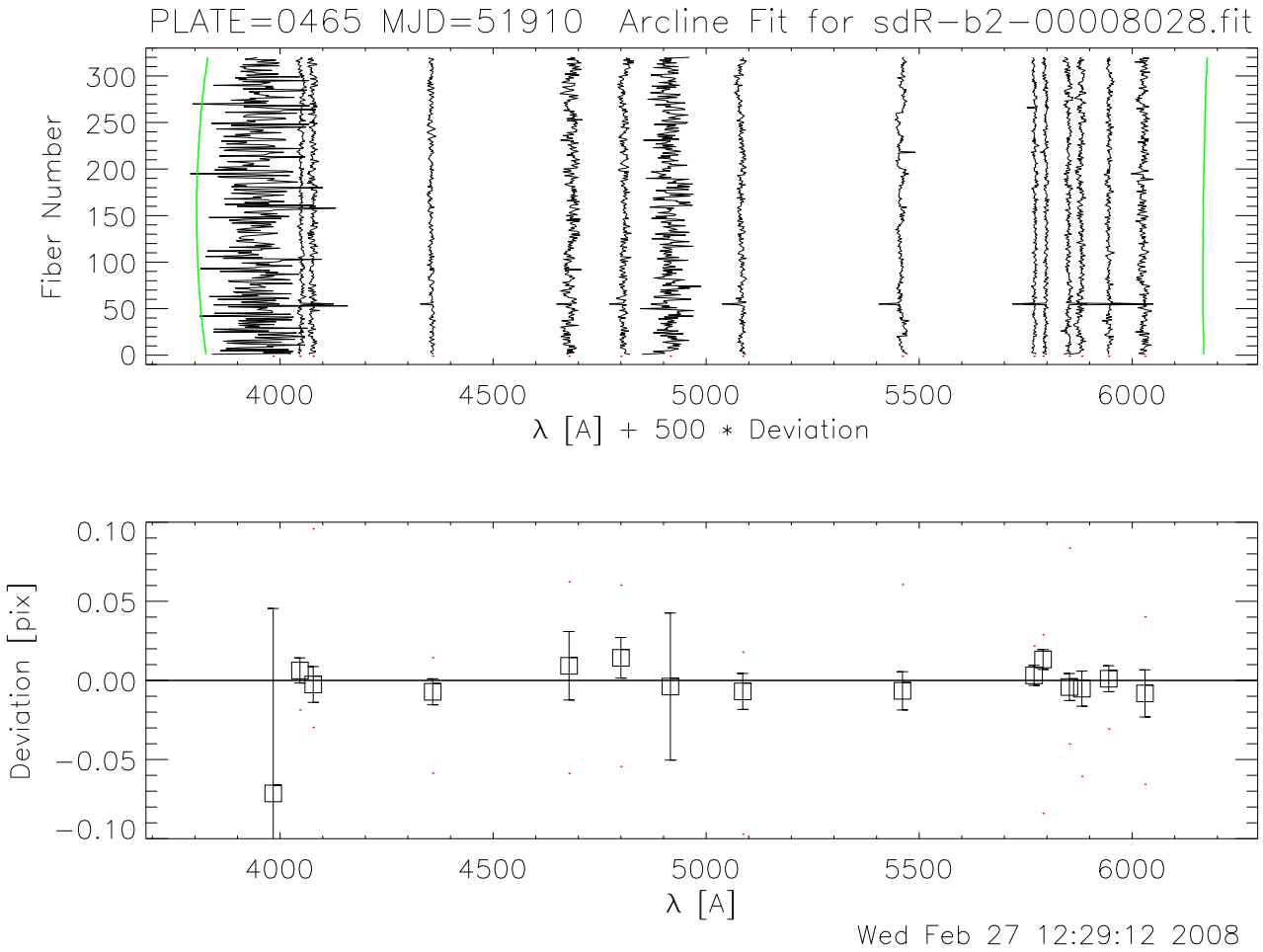

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

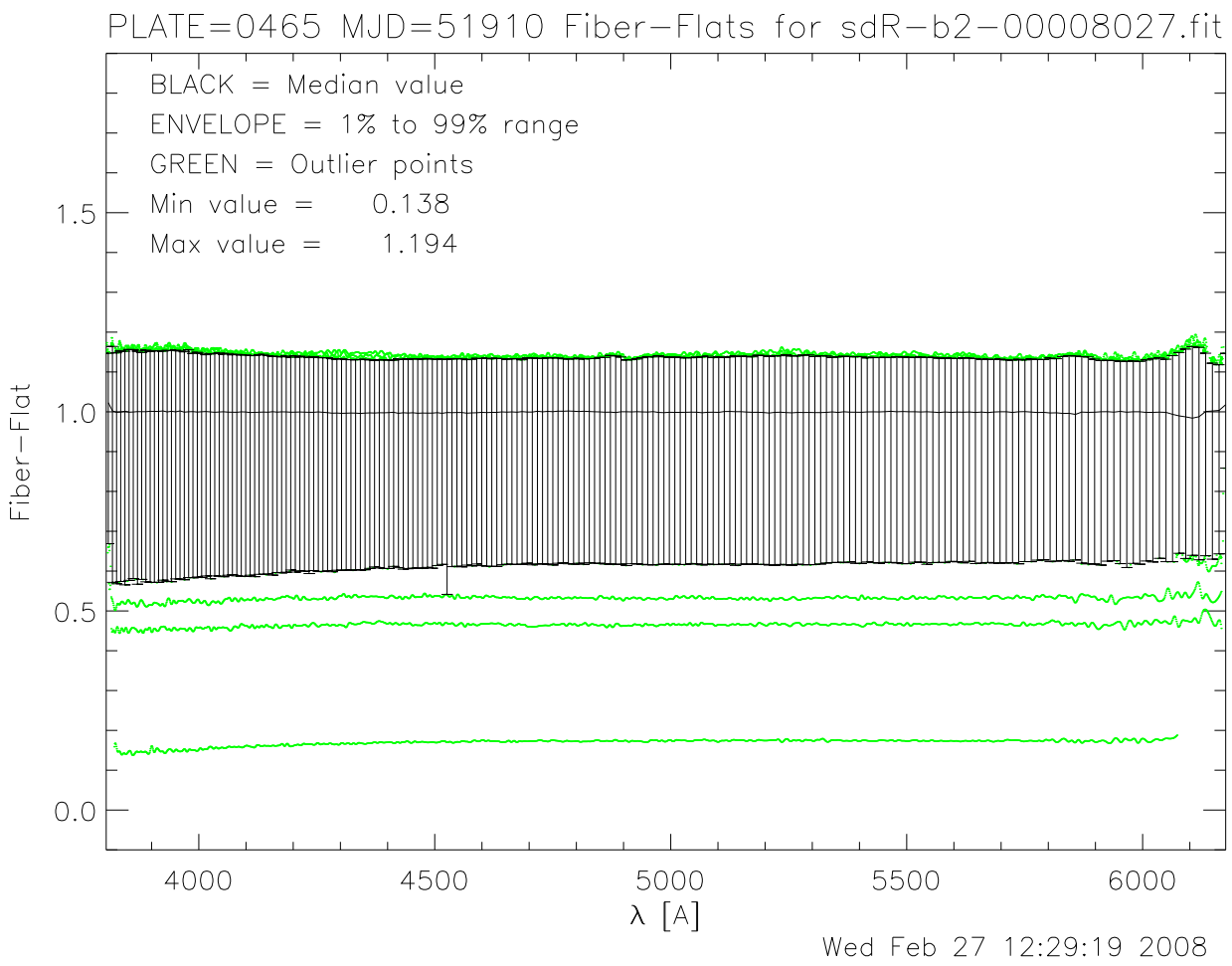

PLATE=0465 MJD=51910 flat extraction chi^2 for sdR−b2−00008021.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

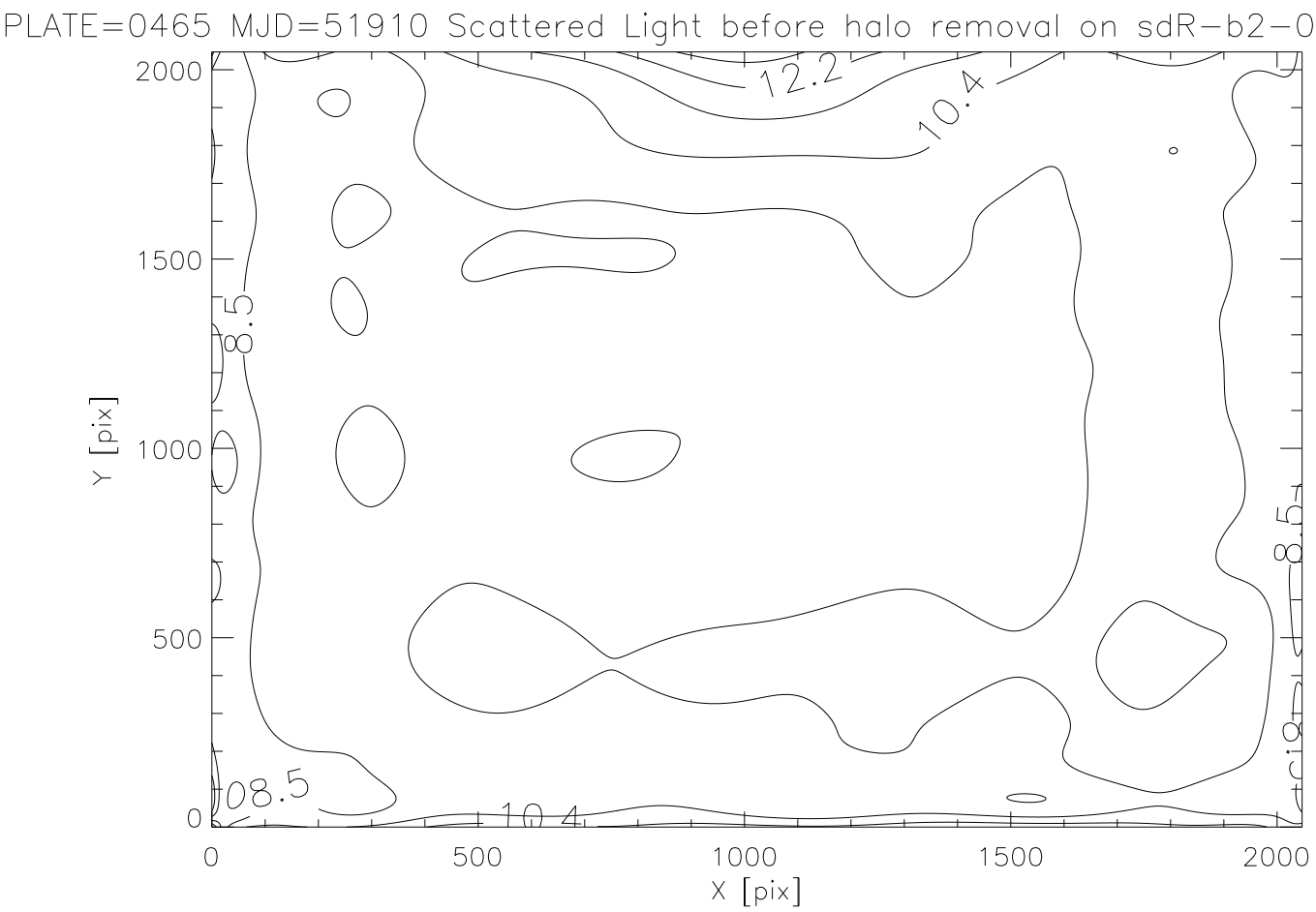

PLATE=0465 MJD=51910 Superflat sdR-b2-00008021.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

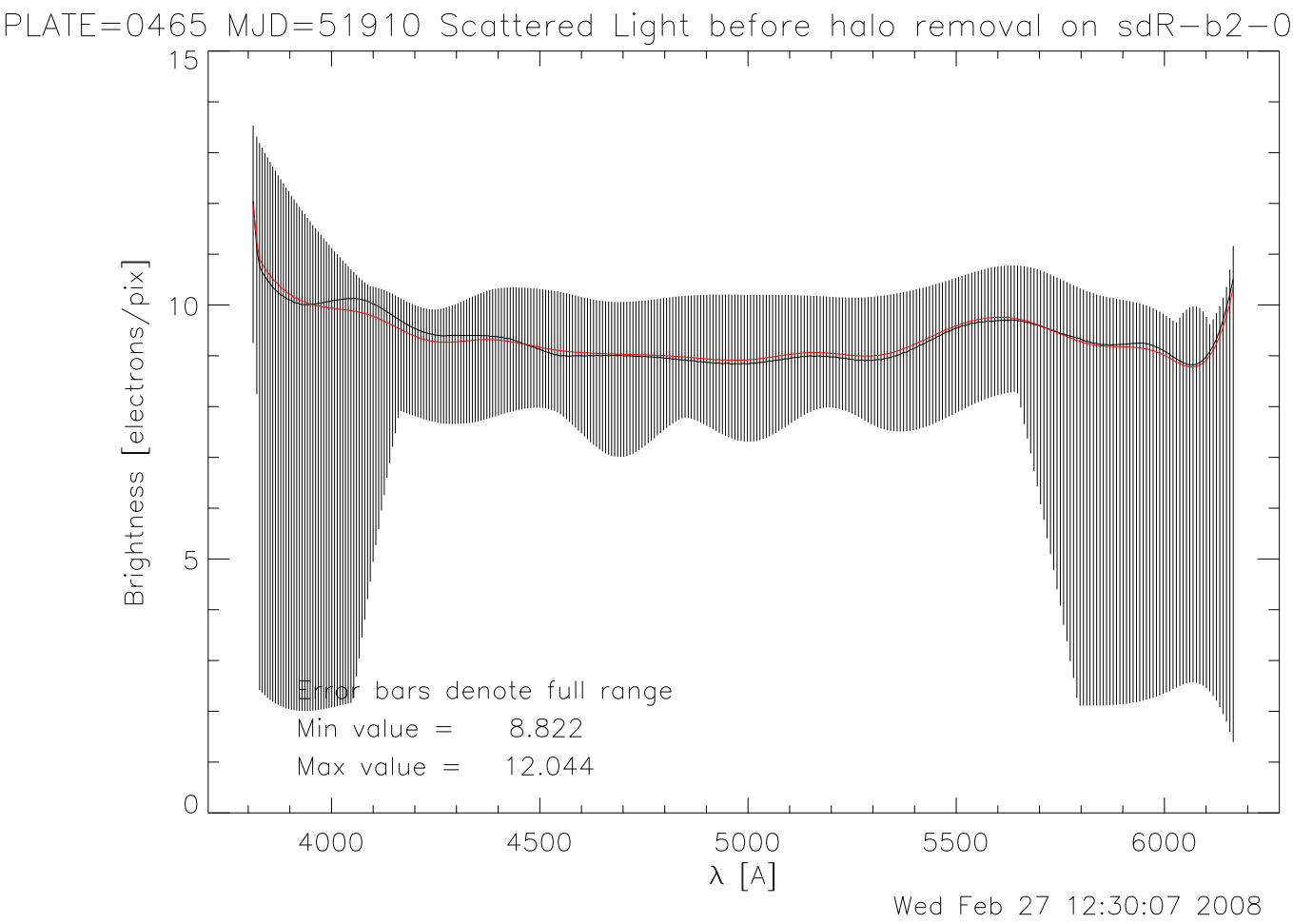

PLATE=0465 MJD=51910 flat extraction chi^2 for sdR−b2−00008027.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

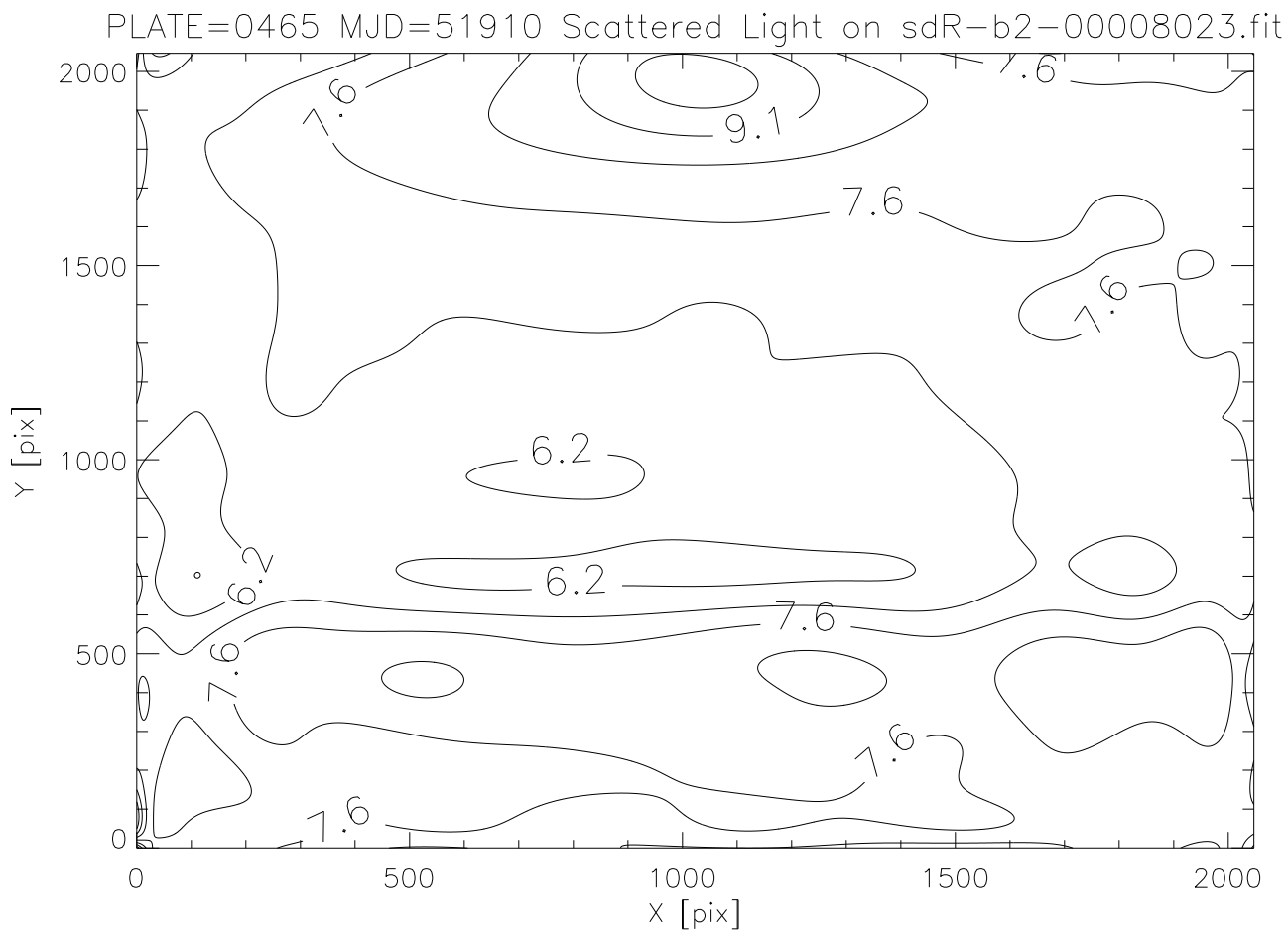

PLATE=0465 MJD=51910 Superflat sdR-b2-00008027.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

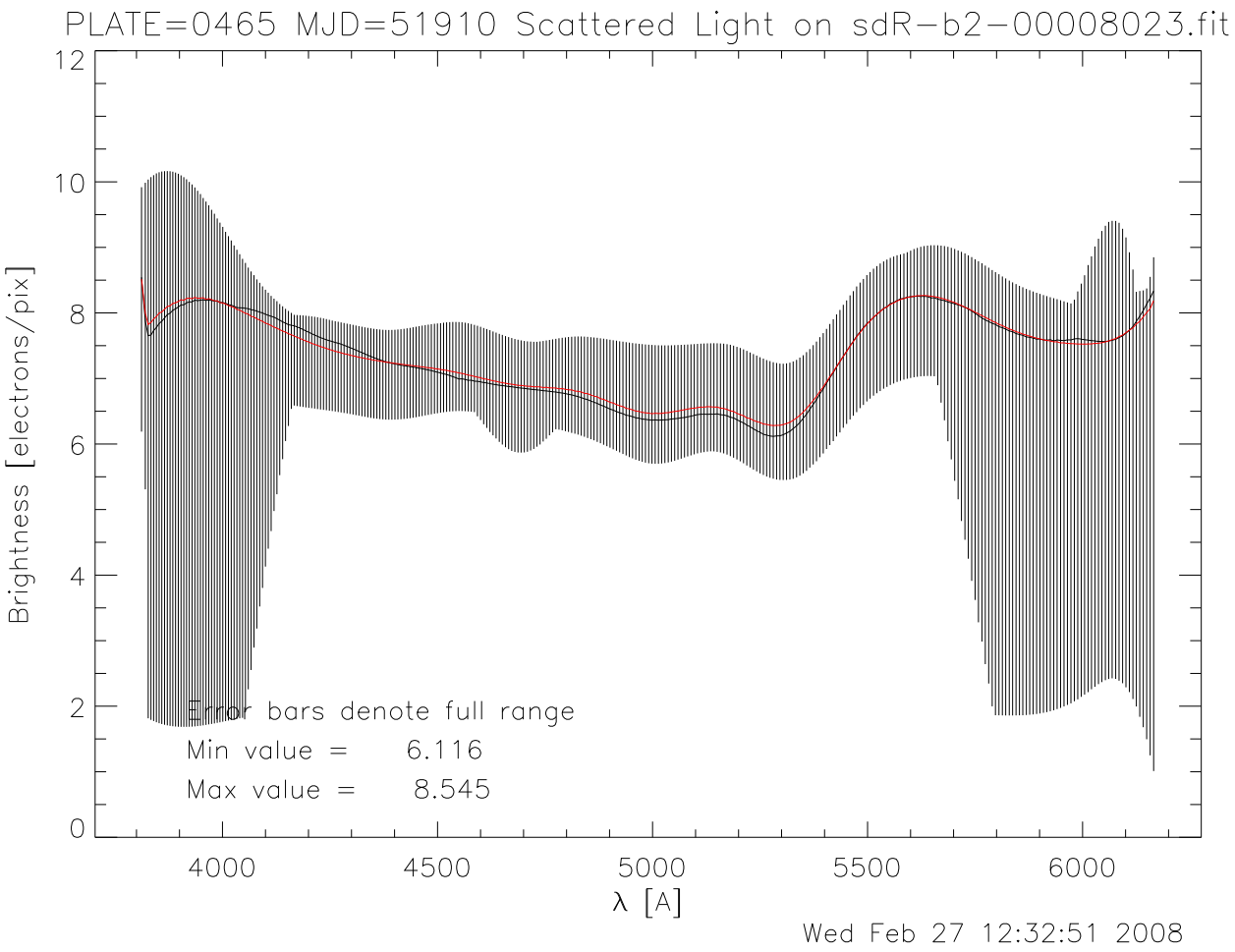

PLATE=0465 MJD=51910 Arcline Fit for sdR-b2-00008028.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:29:12 2008

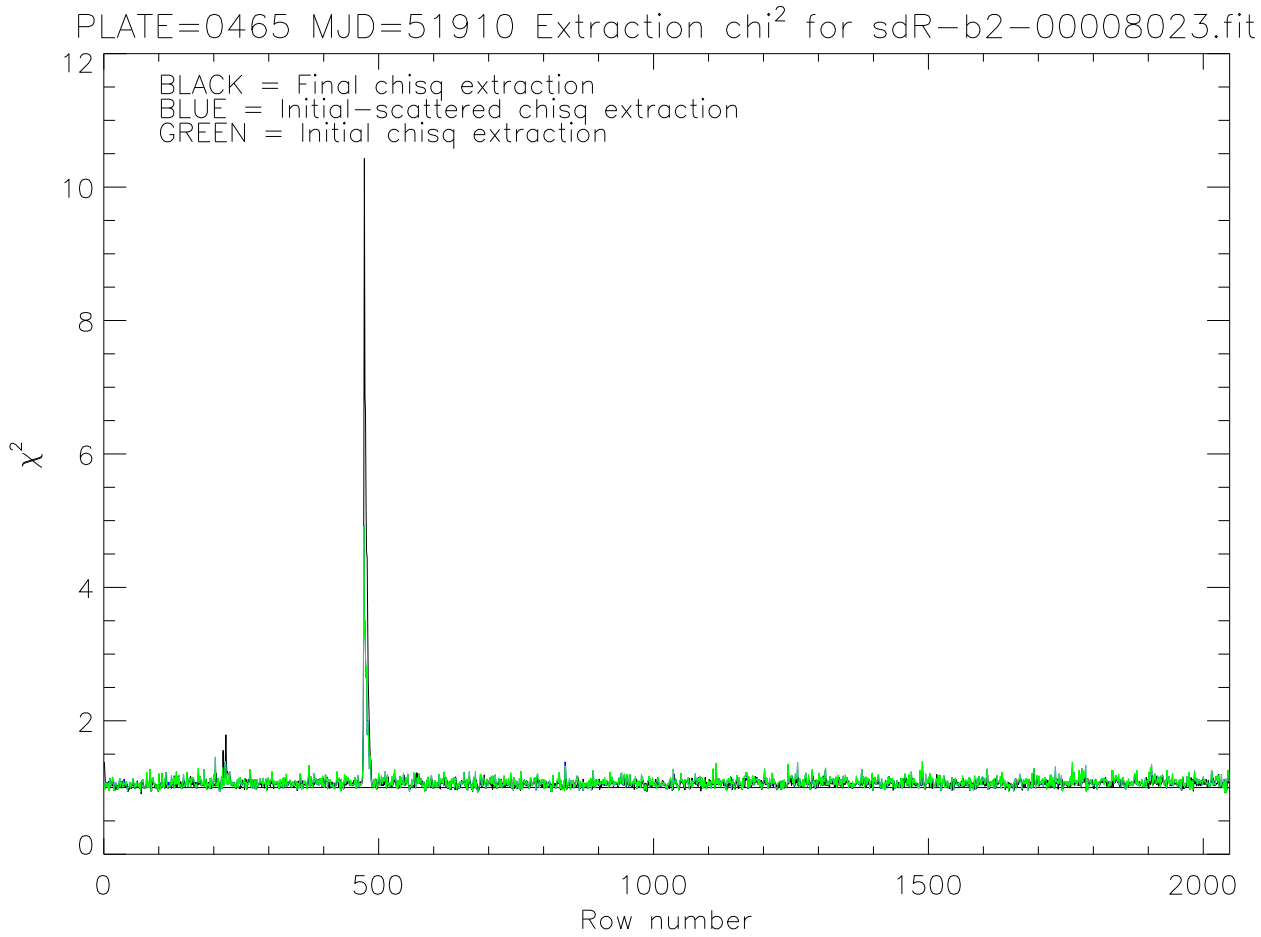

PLATE=0465 MJD=51910 Fiber-Flats for sdR-b2-00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.138
Max value = 1.194
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:29:19 2008

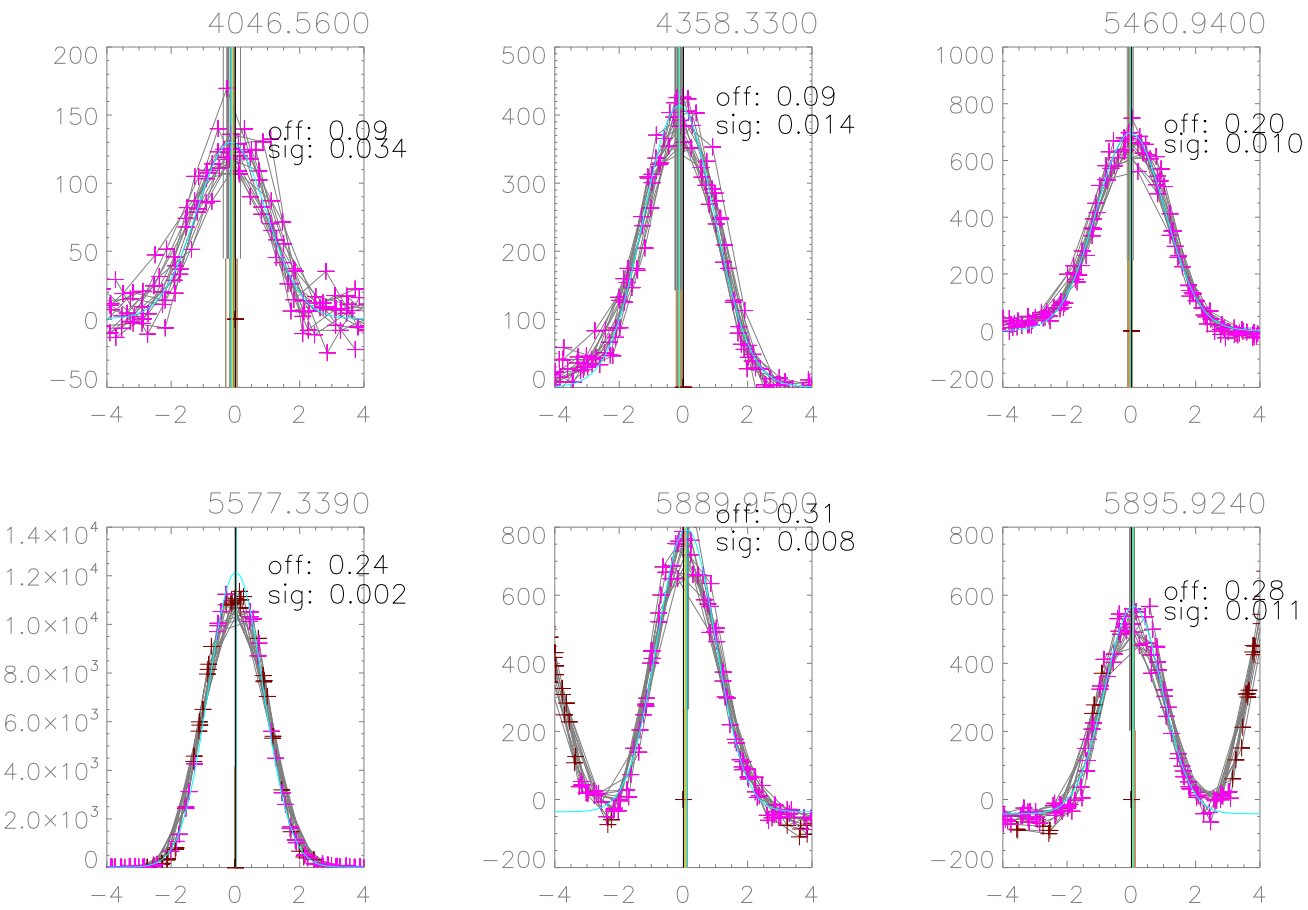

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR−b2−00008023.f
12.2
10.4
8.5
8.5
8.5
10.4
Y [pix]
X [pix]
0
500
1000
1500
2000

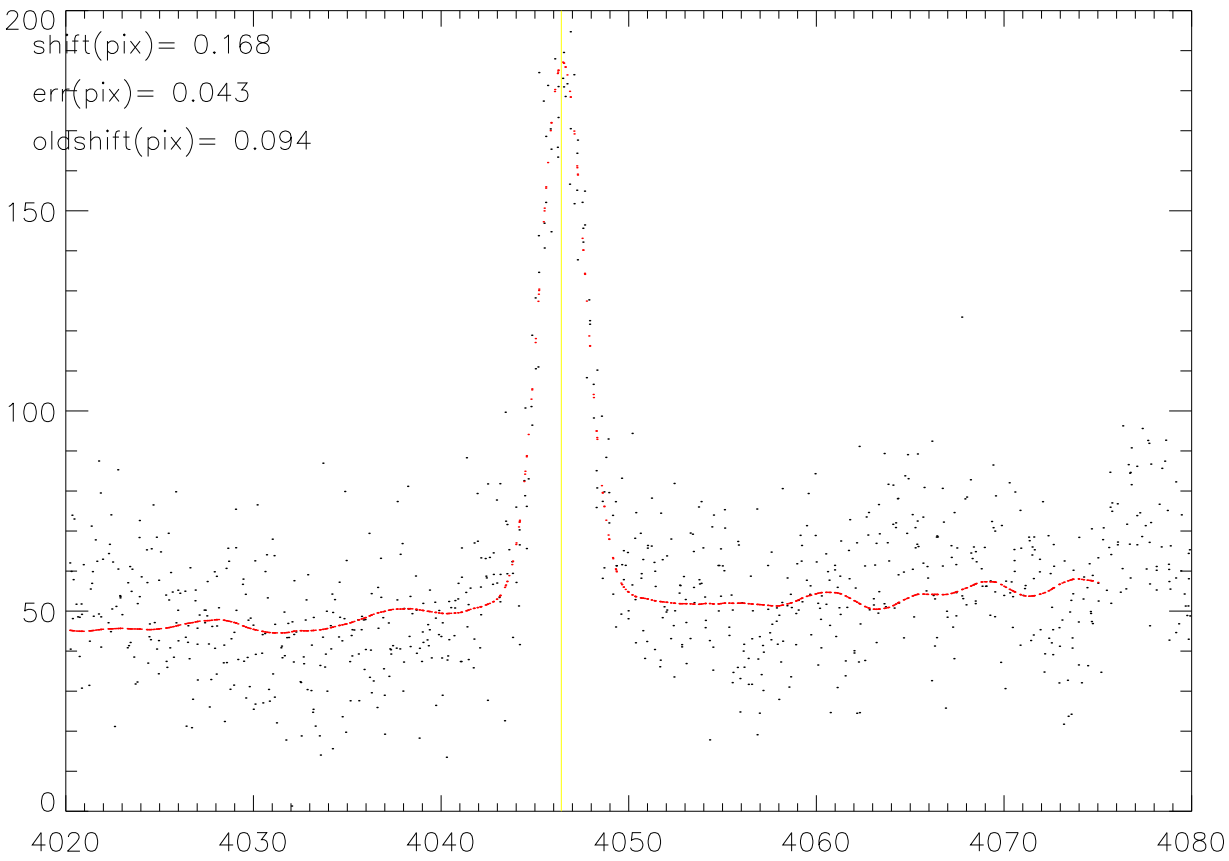

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-b2-00008023.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.822
Max value = 12.044
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:30:07 2008

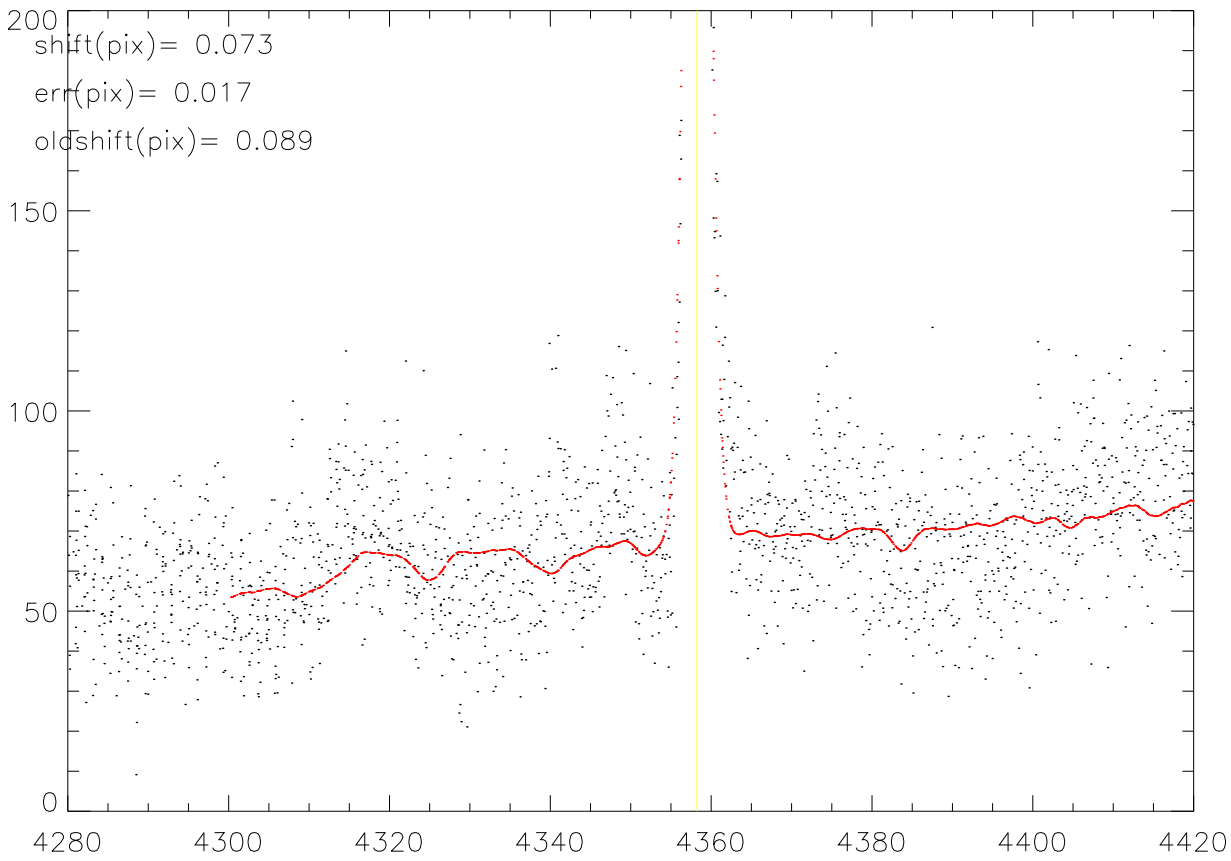

PLATE=0465 MJD=51910 Scattered Light on sdR-b2-00008023.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
7.6
6.2

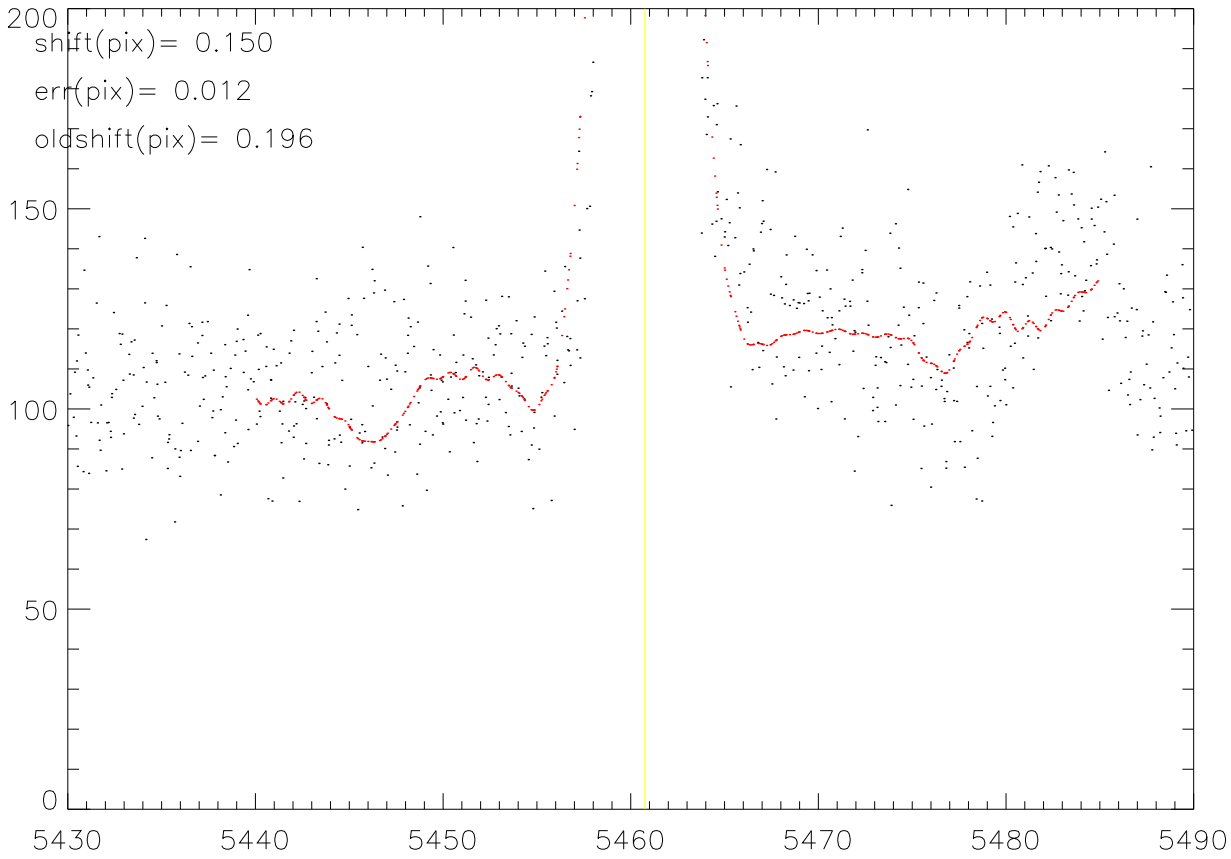

PLATE=0465 MJD=51910 Scattered Light on sdR-b2-00008023.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.116
Max value = 8.545
Wed Feb 27 12:32:51 2008

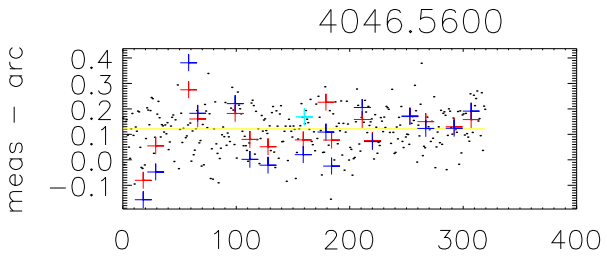

PLATE=0465 MJD=51910 Extraction chi^2 for sdR-b2-00008023.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

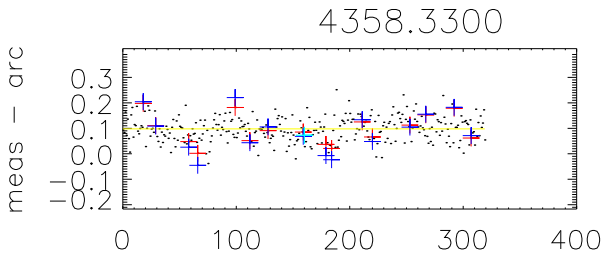

4046.5600
off: 0.09
sig: 0.034
4358.3300
off: 0.09
sig: 0.014
5460.9400
off: 0.20
sig: 0.010
5577.3390
off: 0.24
sig: 0.002
5889.9500
off: 0.31
sig: 0.008
5895.9240
off: 0.28
sig: 0.011

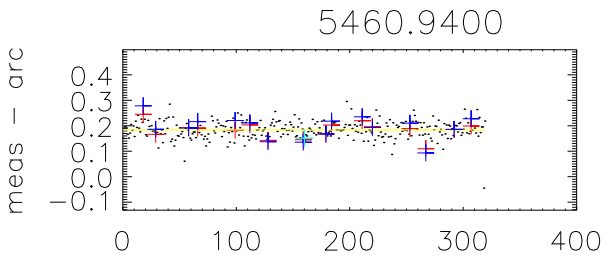

shift(pix)= 0.168
err(pix)= 0.043
oldshift(pix)= 0.094
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

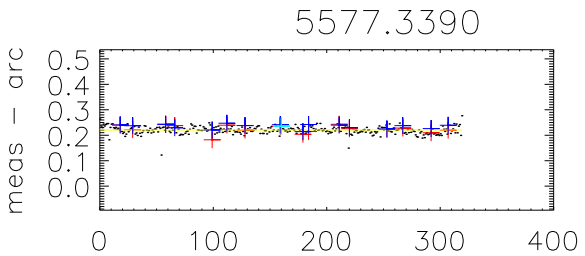

shift(pix)= 0.073
err(pix)= 0.017
oldshift(pix)= 0.089
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

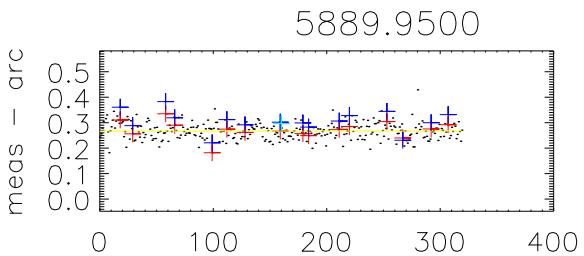

shift(pix)= 0.150
err(pix)= 0.012
oldshift(pix)= 0.196
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

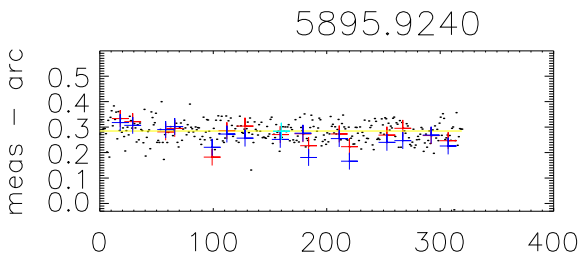

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

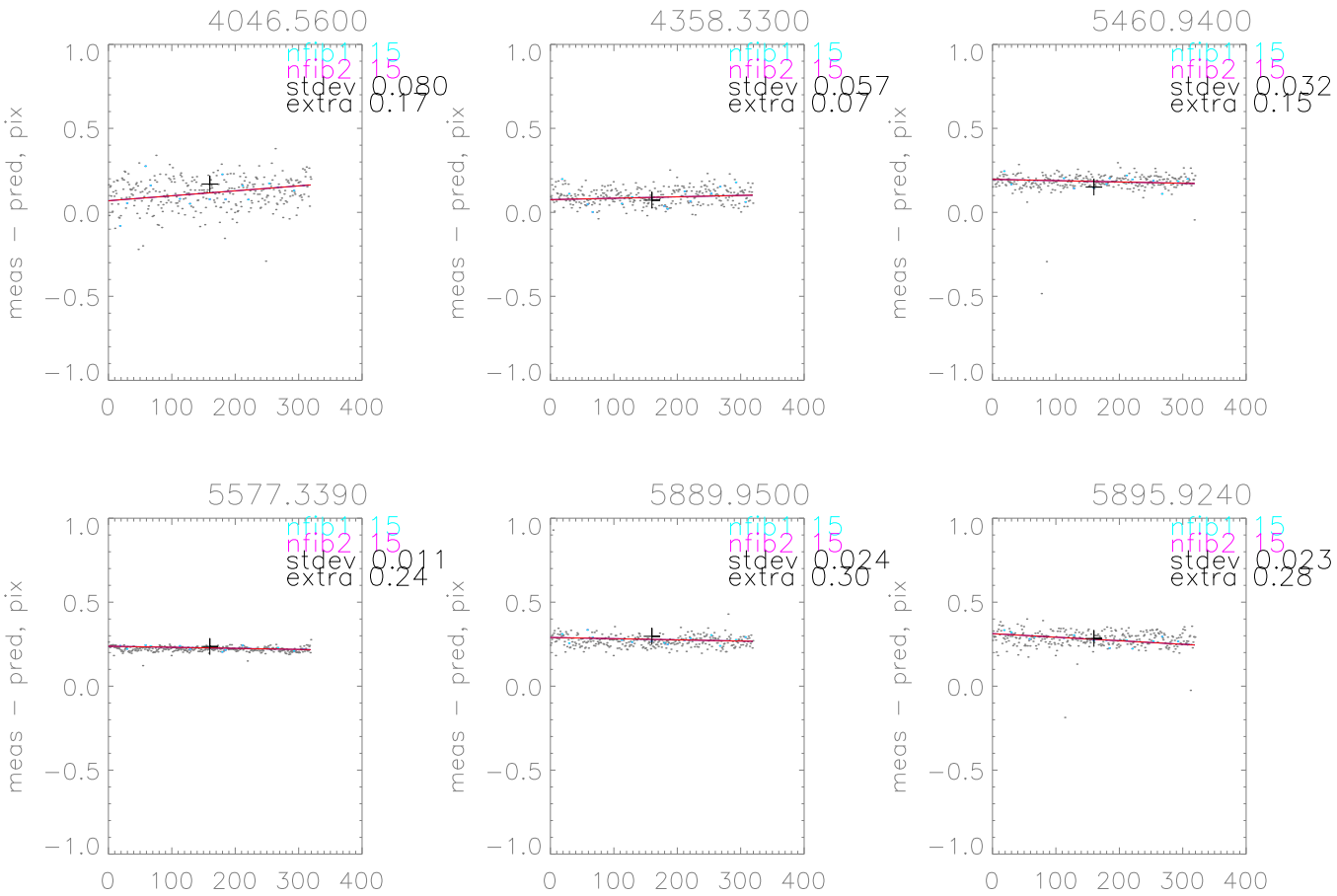

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

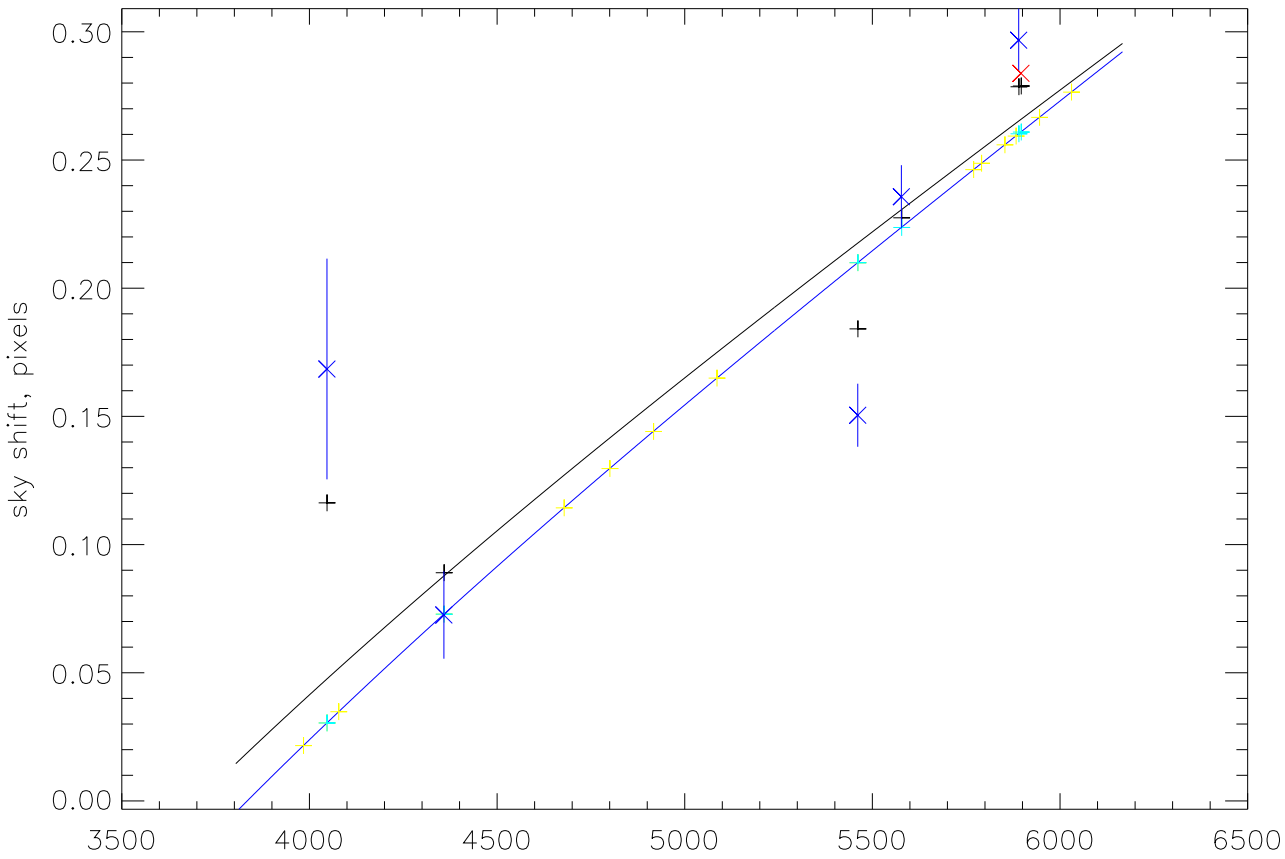

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

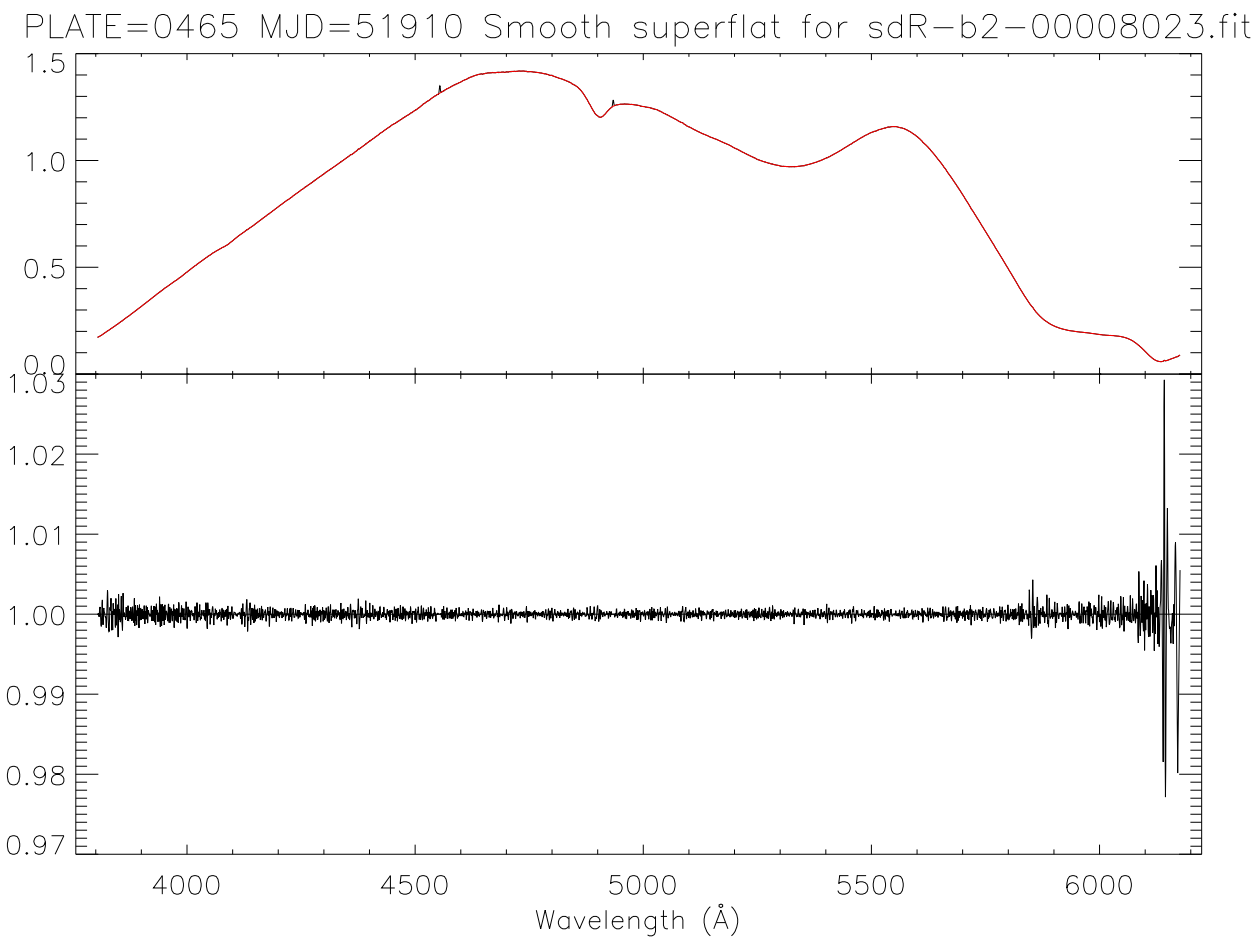

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

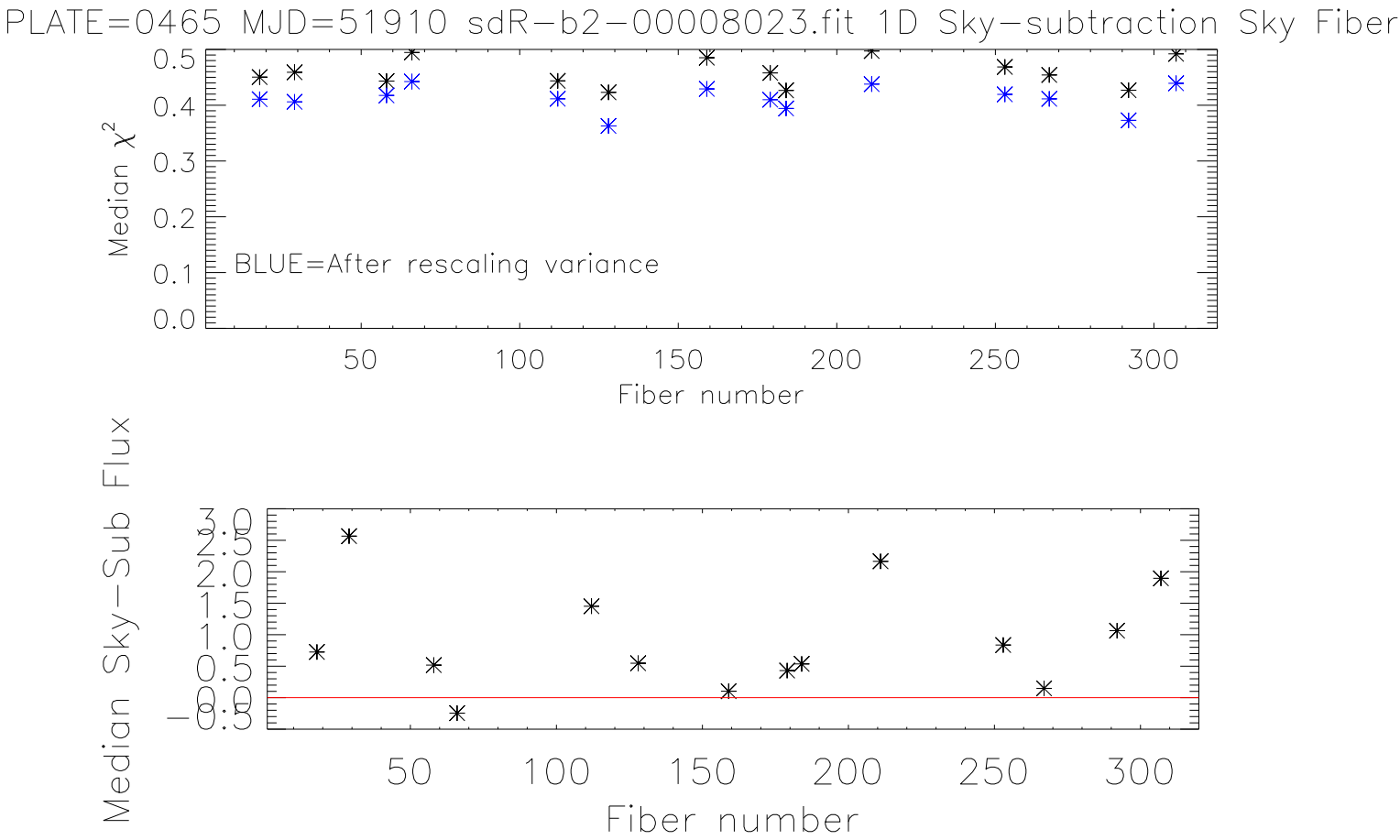

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

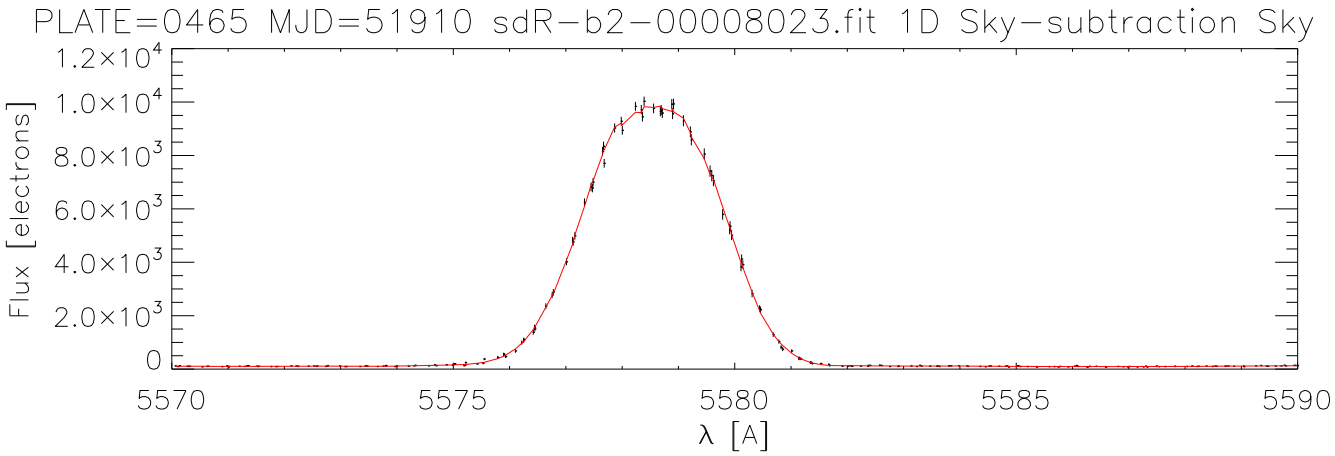

4046.5600
nfib1 15
nfib2 15
stdev 0.080
extra 0.17
4358.3300
nfib1 15
nfib2 15
stdev 0.057
extra 0.07
5460.9400
nfib1 15
nfib2 15
stdev 0.032
extra 0.15
5577.3390
nfib1 15
nfib2 15
stdev 0.011
extra 0.24
5889.9500
nfib1 15
nfib2 15
stdev 0.024
extra 0.30
5895.9240
nfib1 15
nfib2 15
stdev 0.023
extra 0.28
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

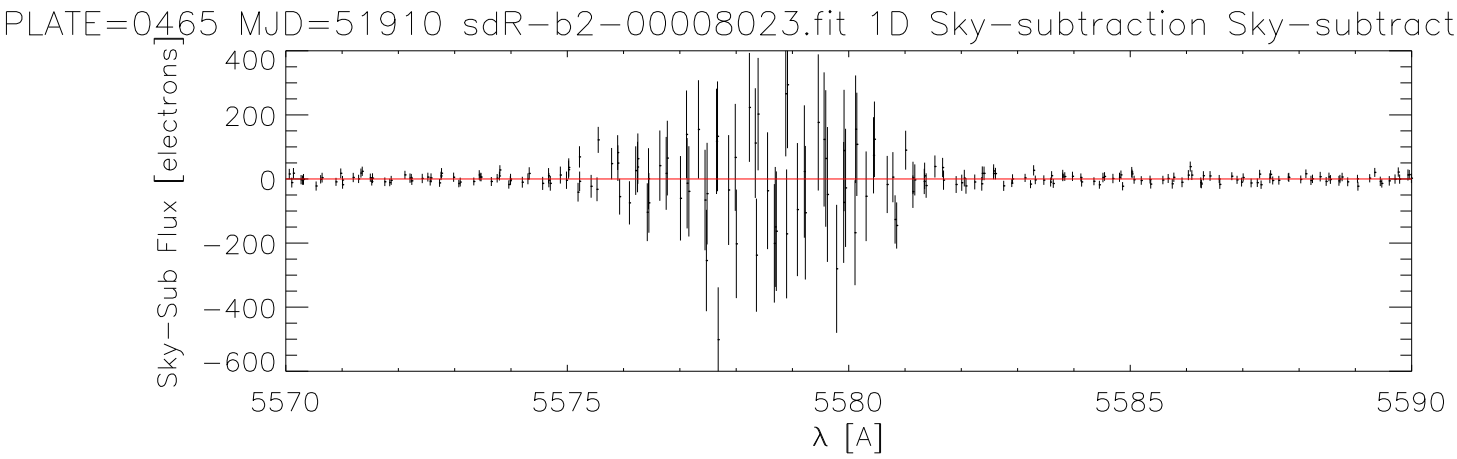

0.30
0.25
0.20
0.15
0.10
0.05
0.00
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

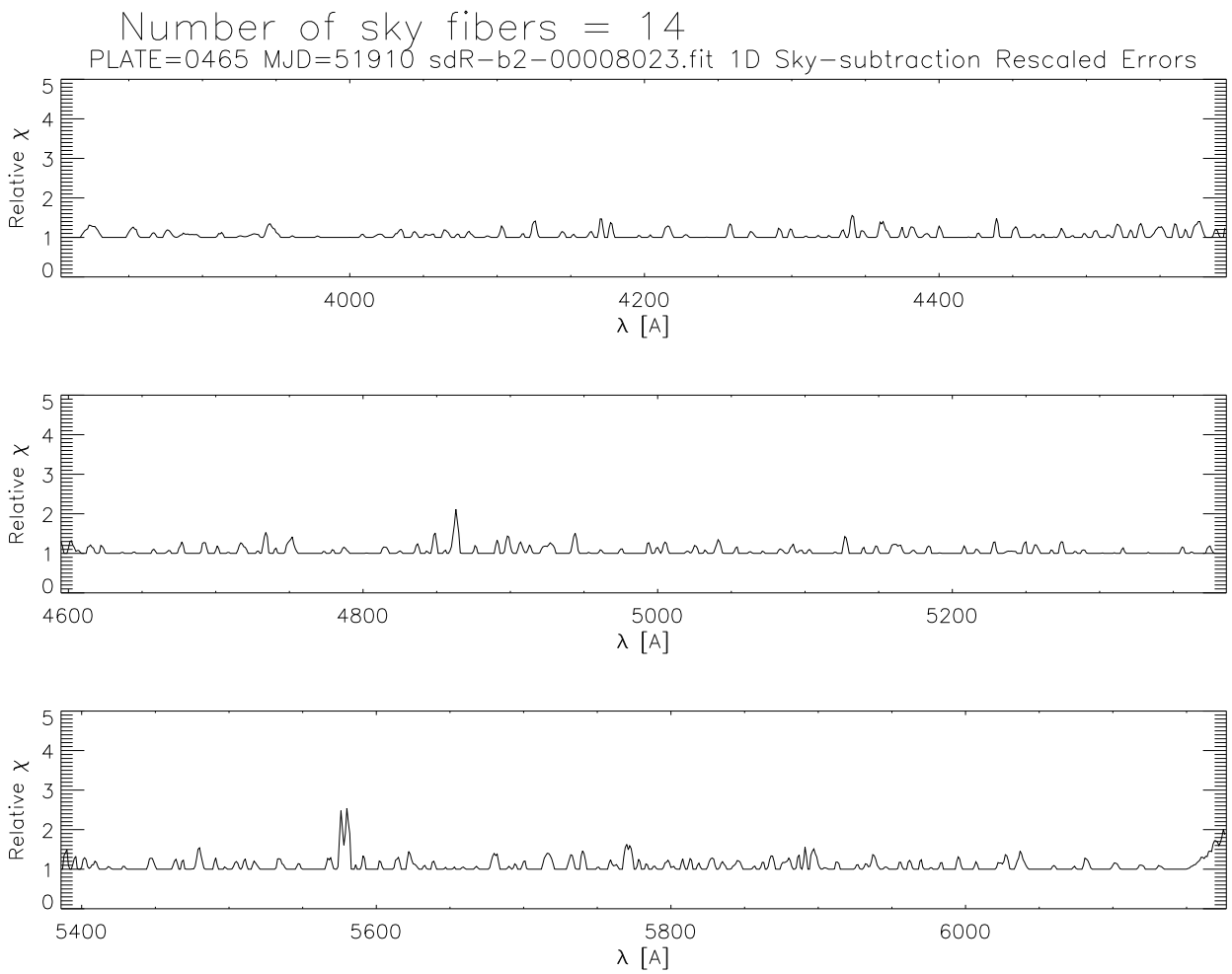
es= 0.0000

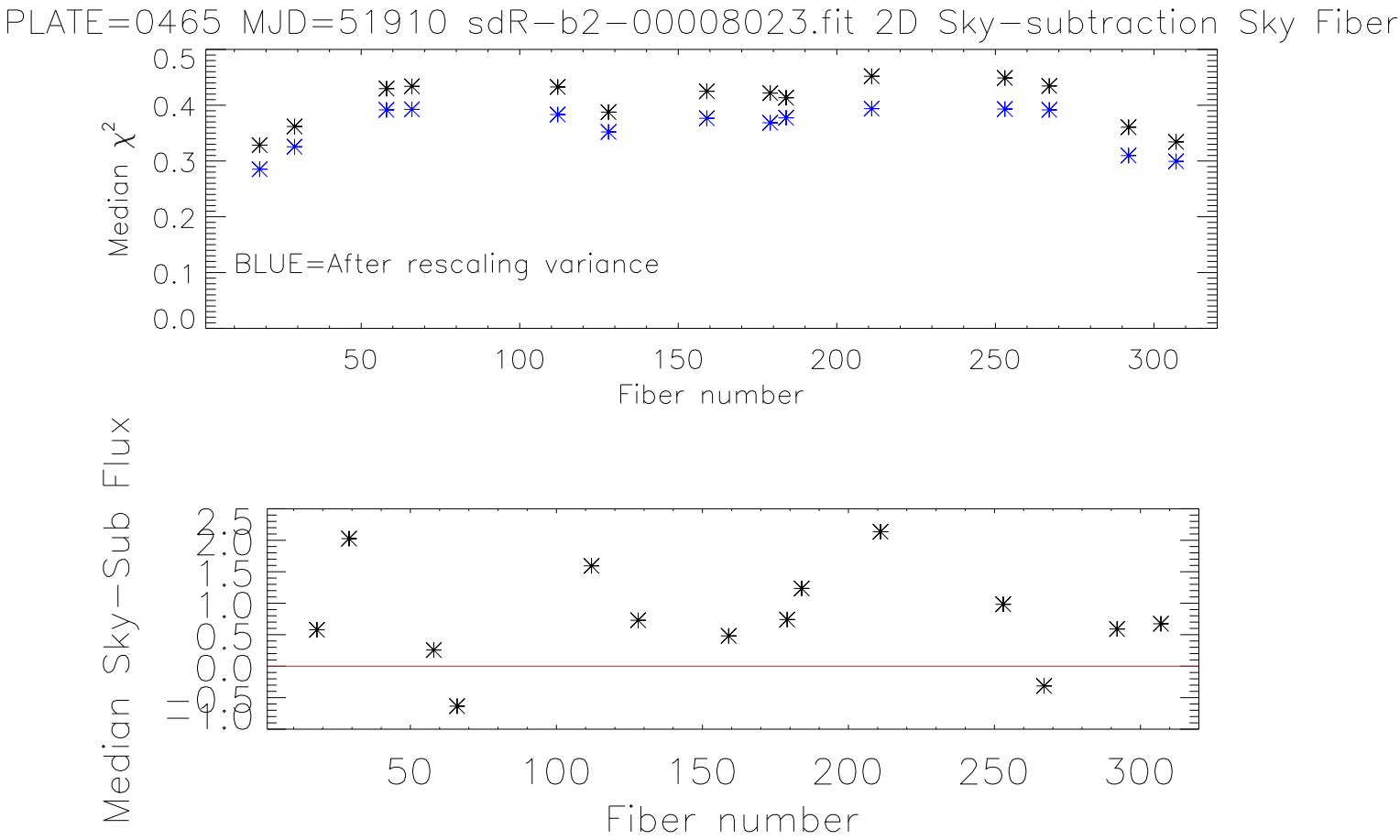

PLATE=0465 MJD=51910 Smooth superflat for sdR-b2-00008023.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

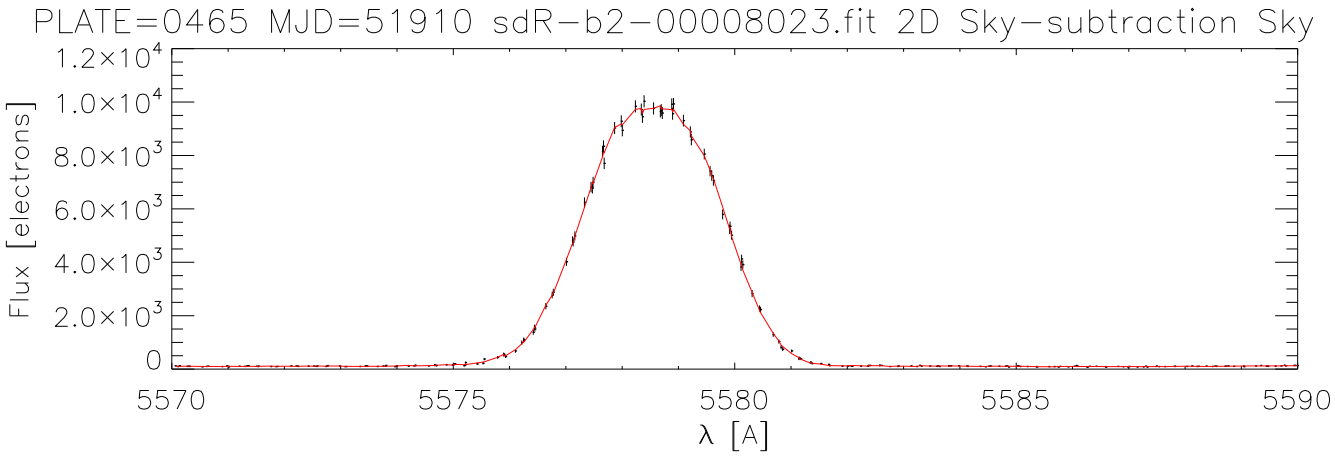

PLATE=0465 MJD=51910 sdR-b2-00008023.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

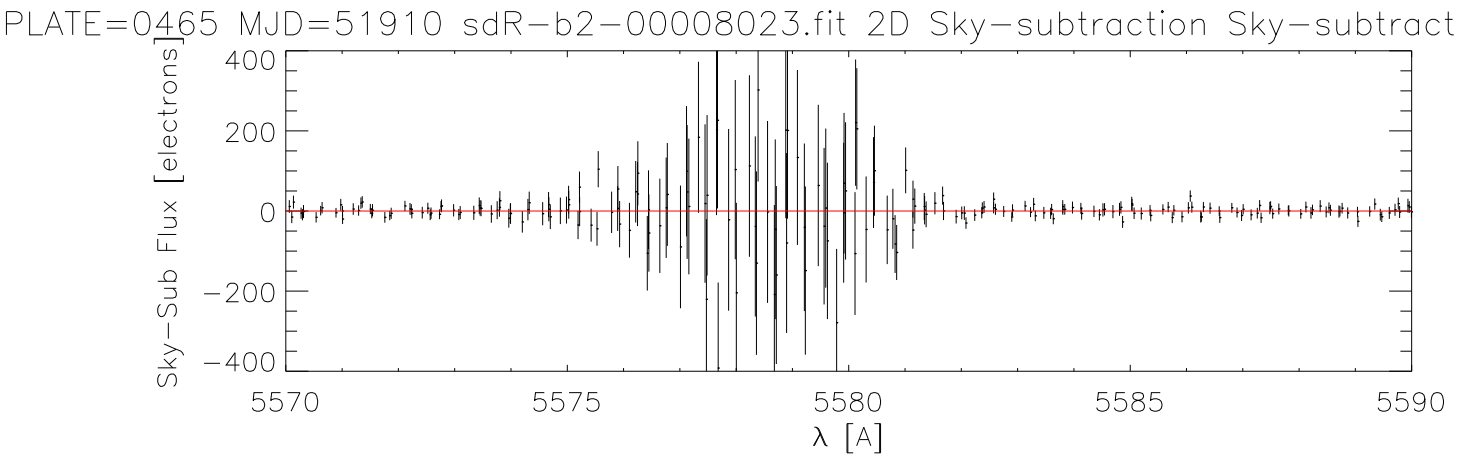

PLATE=0465 MJD=51910 sdR-b2-00008023.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

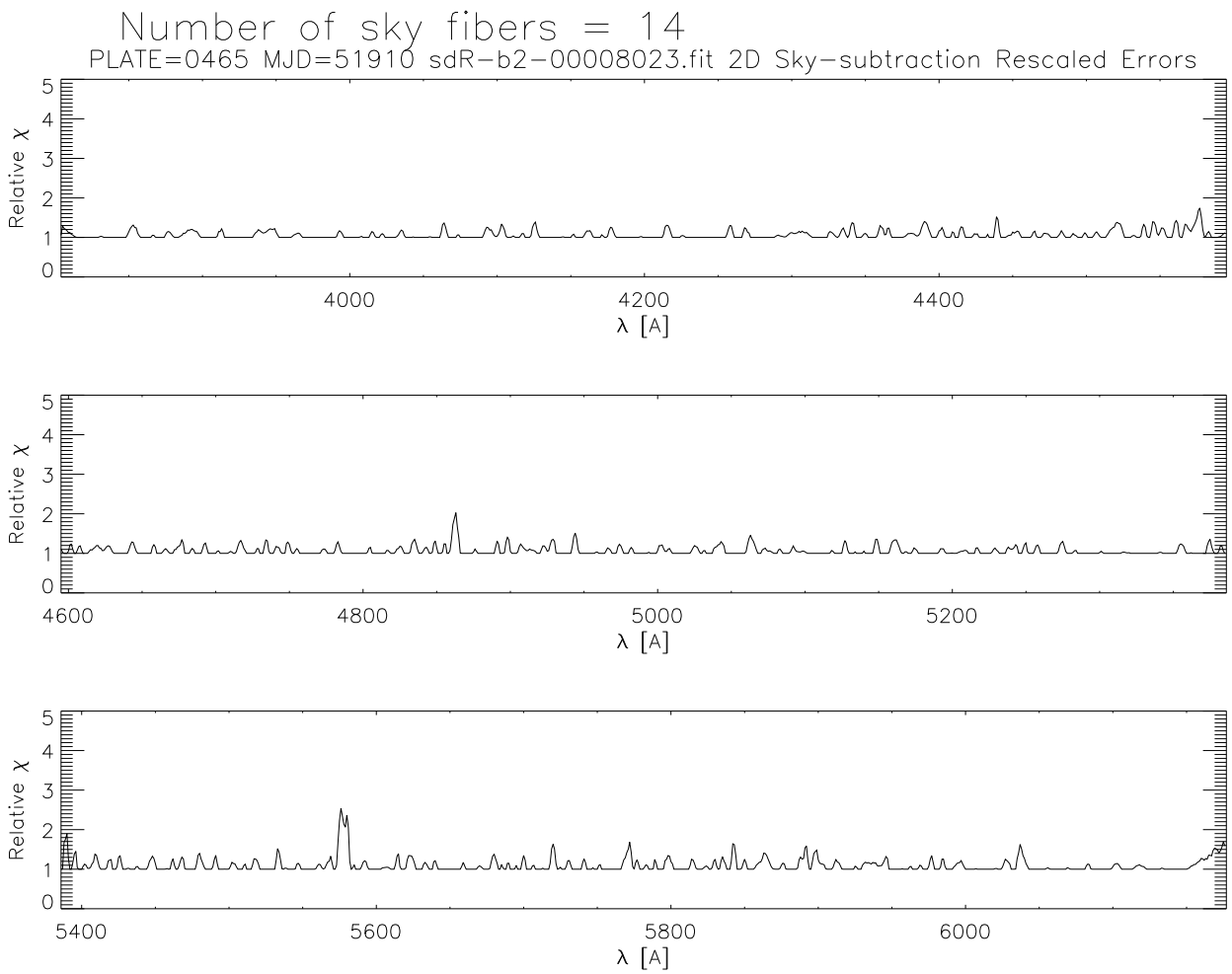

PLATE=0465 MJD=51910 sdR-b2-00008023.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
−600
5570
5575
5580
5585
5590
λ [A]

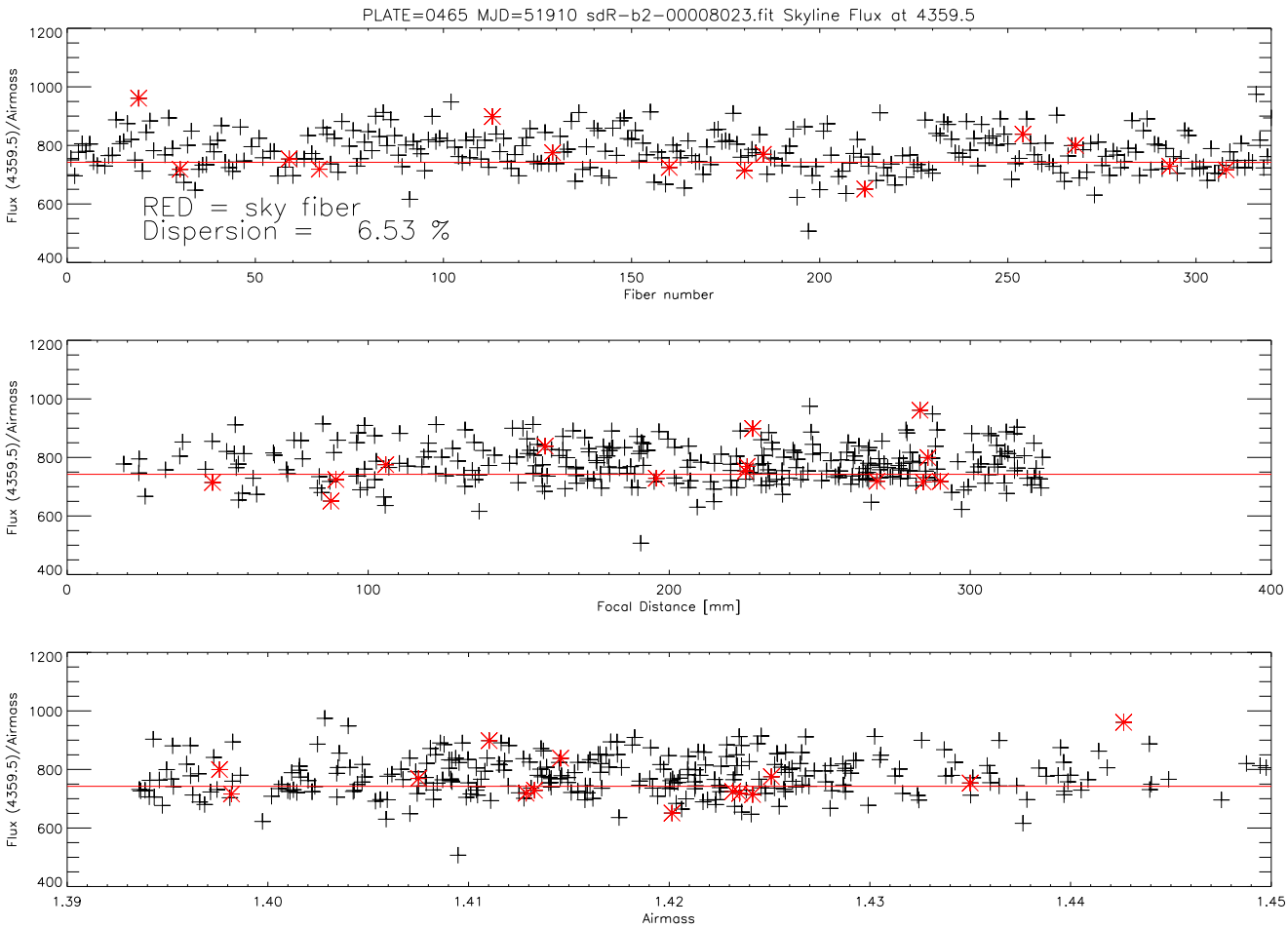

Number of sky fibers = 14
PLATE=0465 MJD=51910 sdR-b2-00008023.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

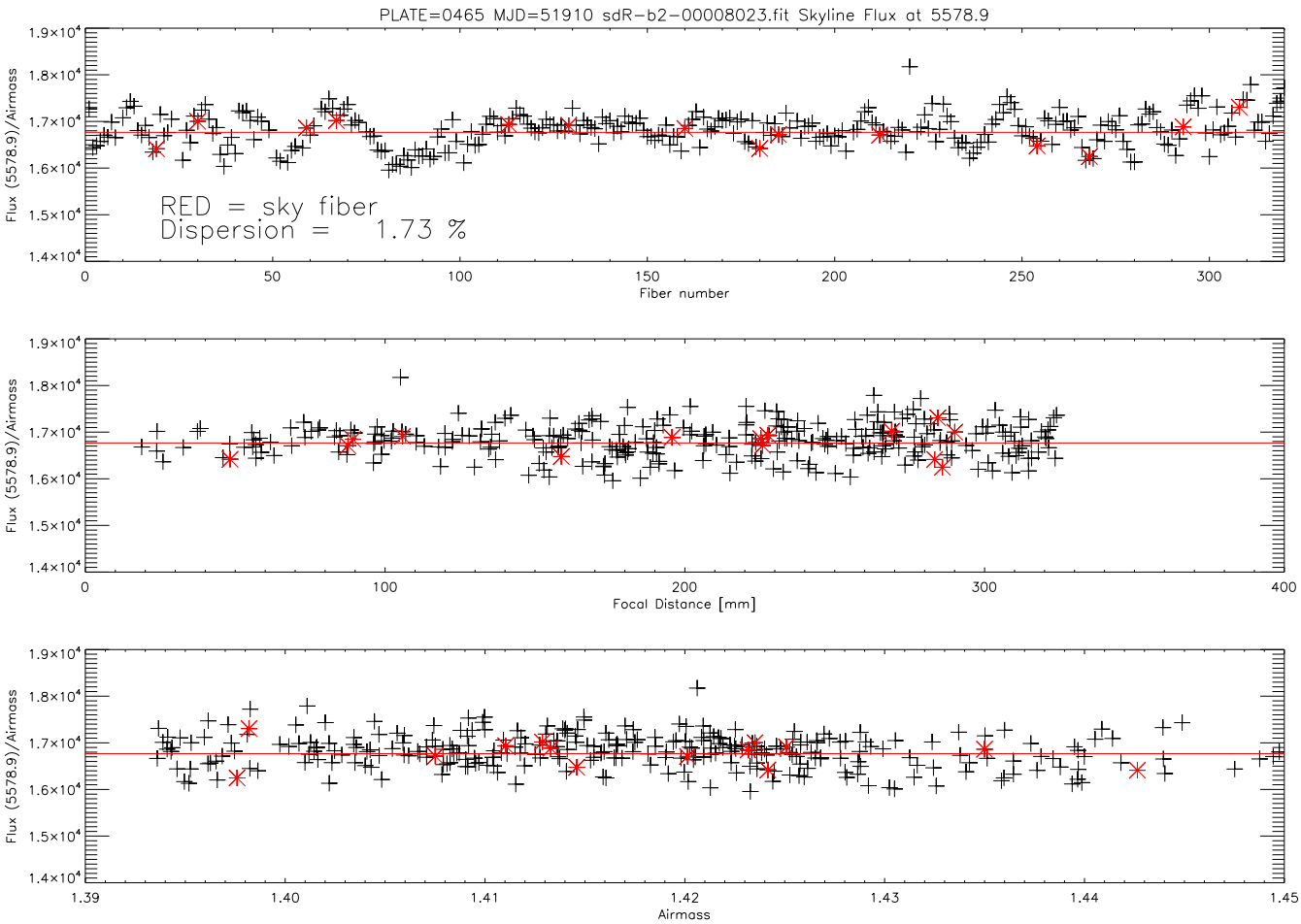

PLATE=0465 MJD=51910 sdR-b2-00008023.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

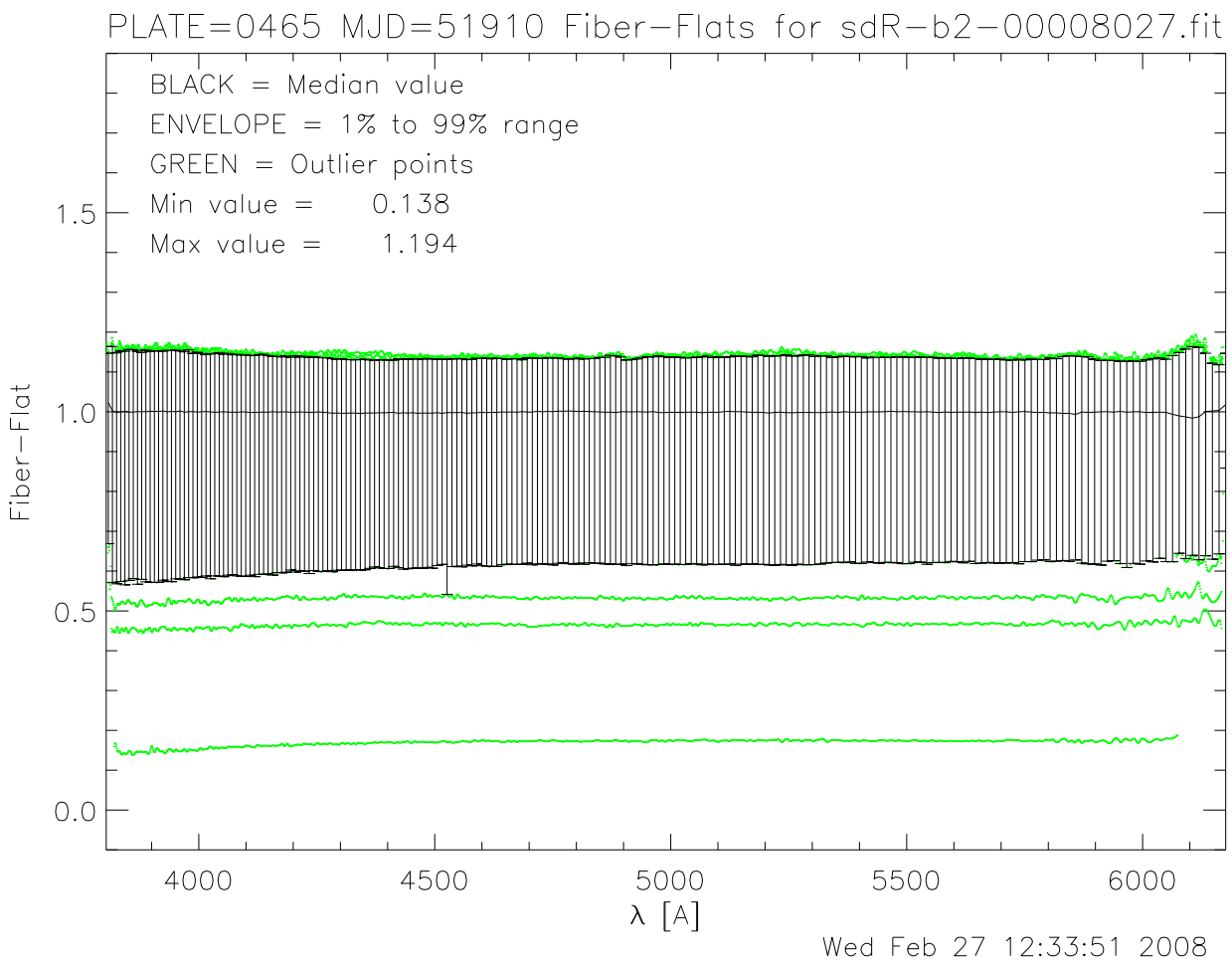

PLATE=0465 MJD=51910 sdR-b2-00008023.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

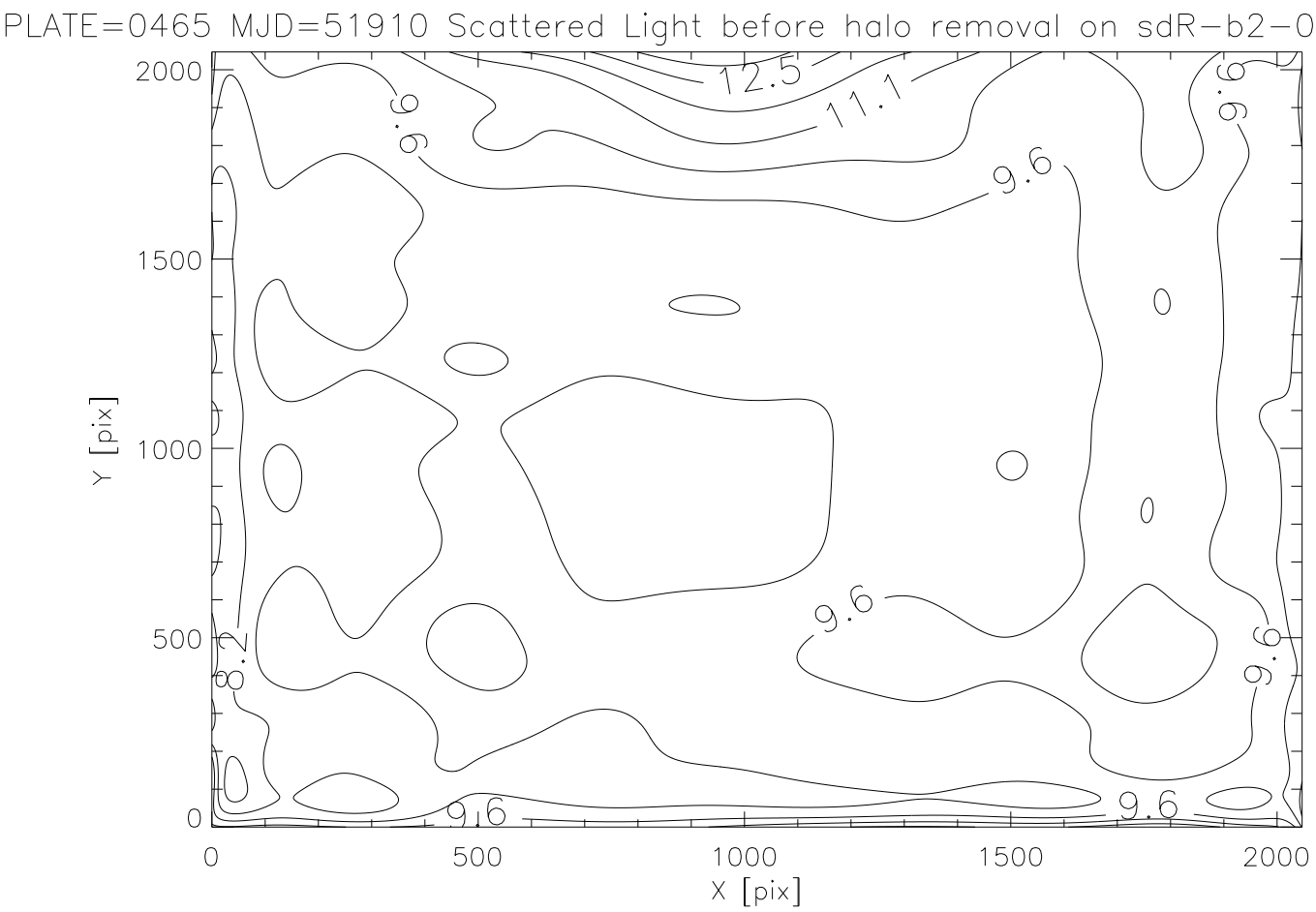

PLATE=0465 MJD=51910 sdR-b2-00008023.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

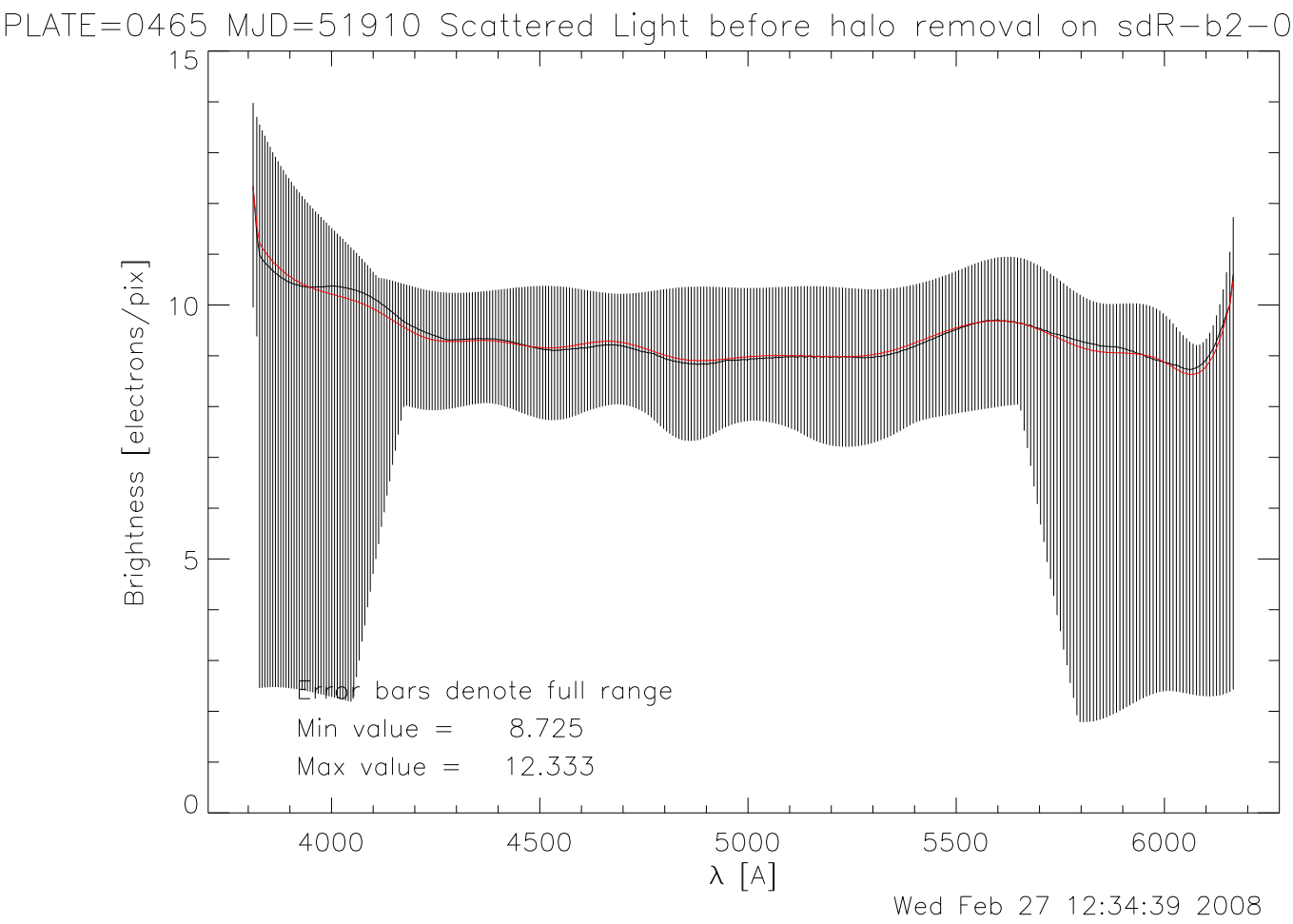

Number of sky fibers = 14
PLATE=0465 MJD=51910 sdR-b2-00008023.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

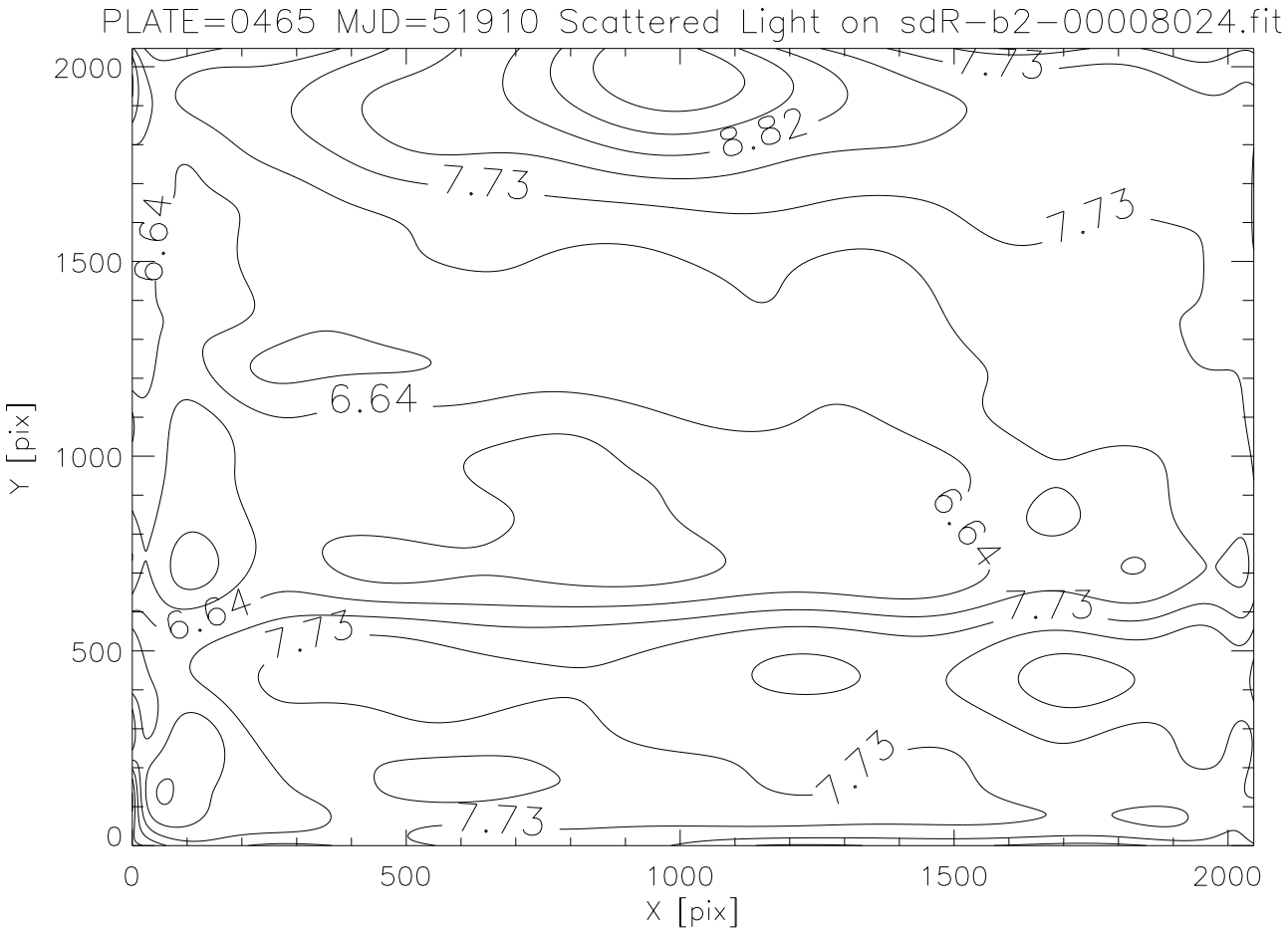

PLATE=0465 MJD=51910 sdR-b2-00008023.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 6.53 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

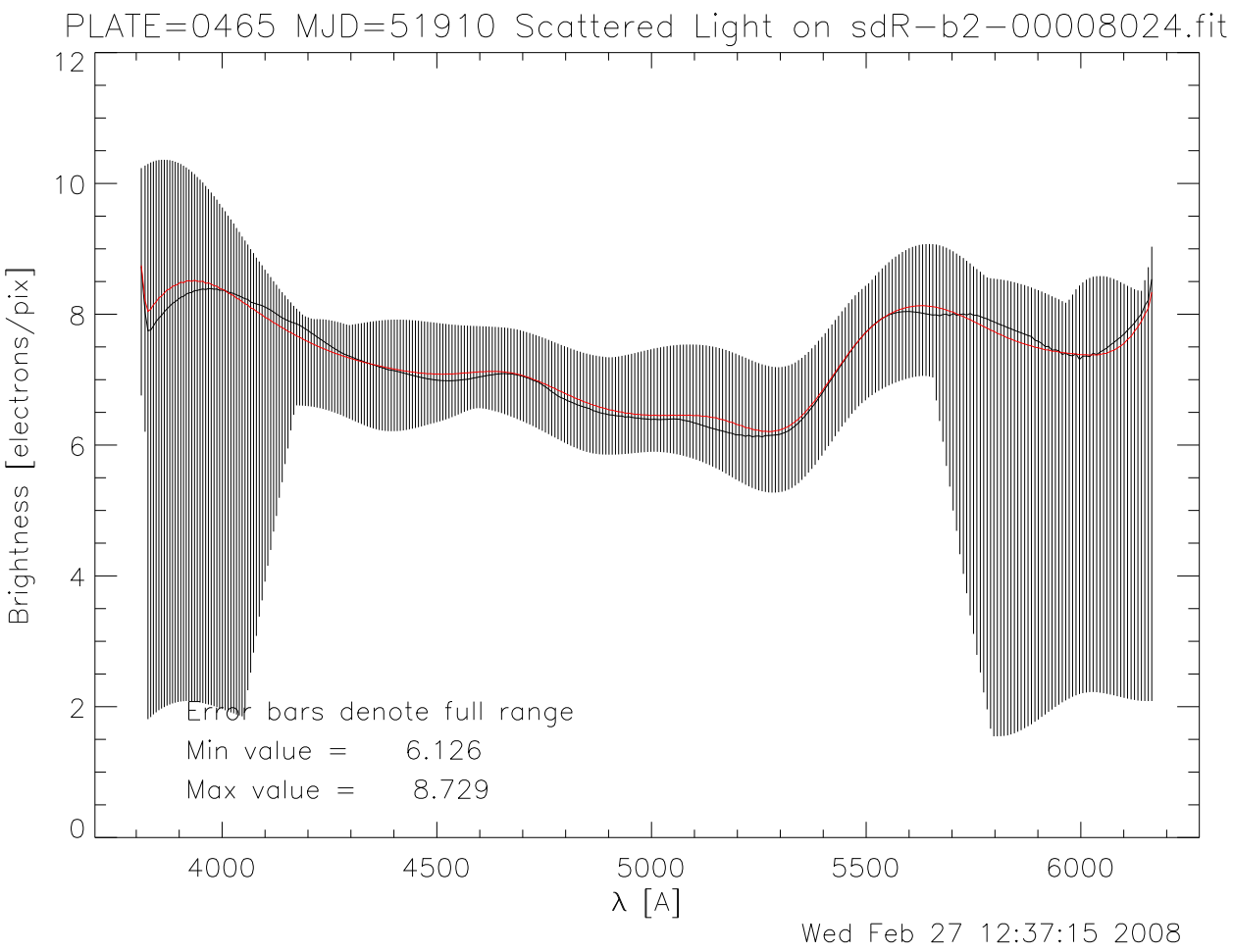

PLATE=0465 MJD=51910 sdR-b2-00008023.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.73 %
Fiber number
Focal Distance [mm]
Airmass

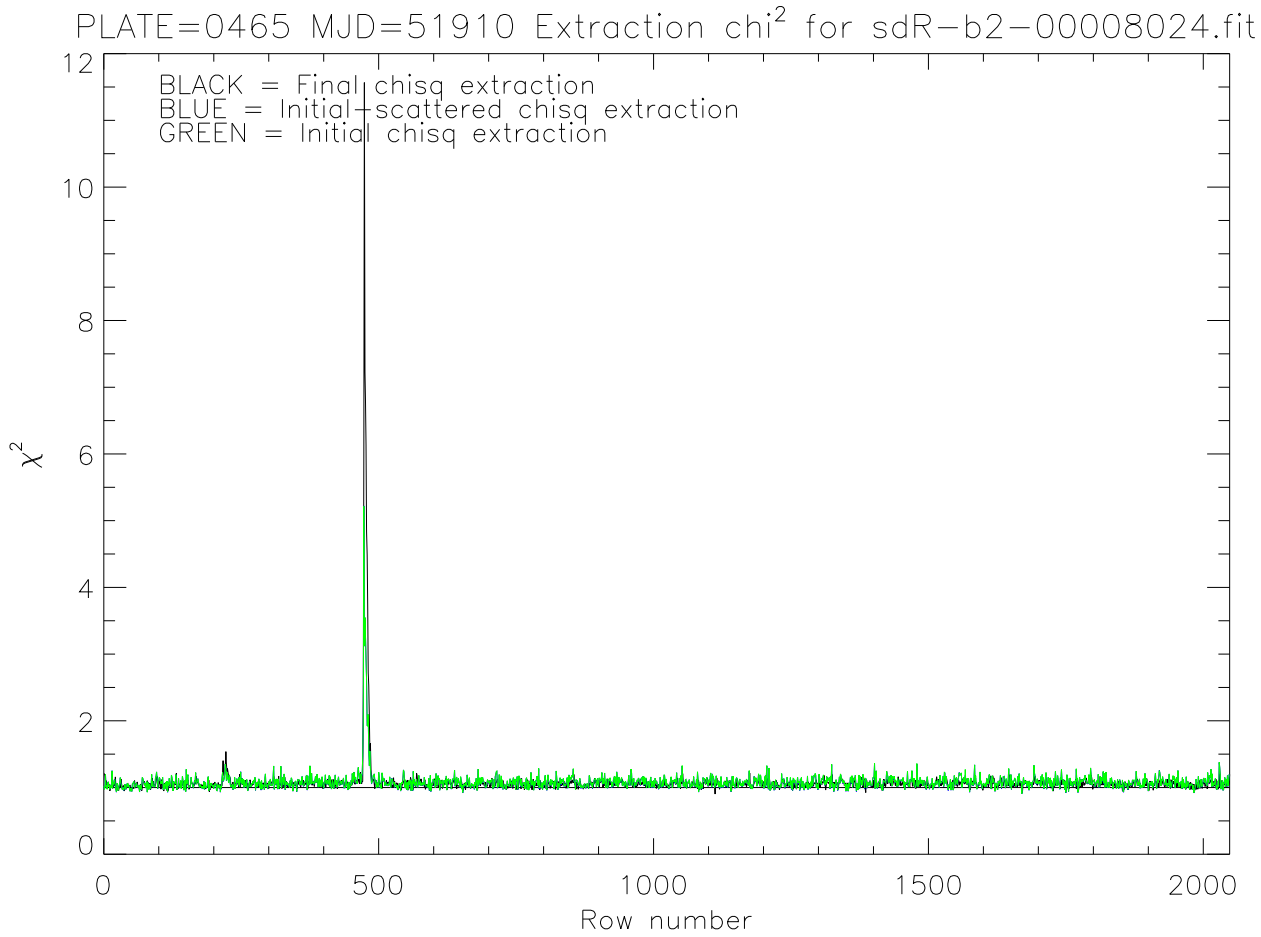

PLATE=0465 MJD=51910 Fiber−Flats for sdR−b2−00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.138
Max value = 1.194
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:33:51 2008

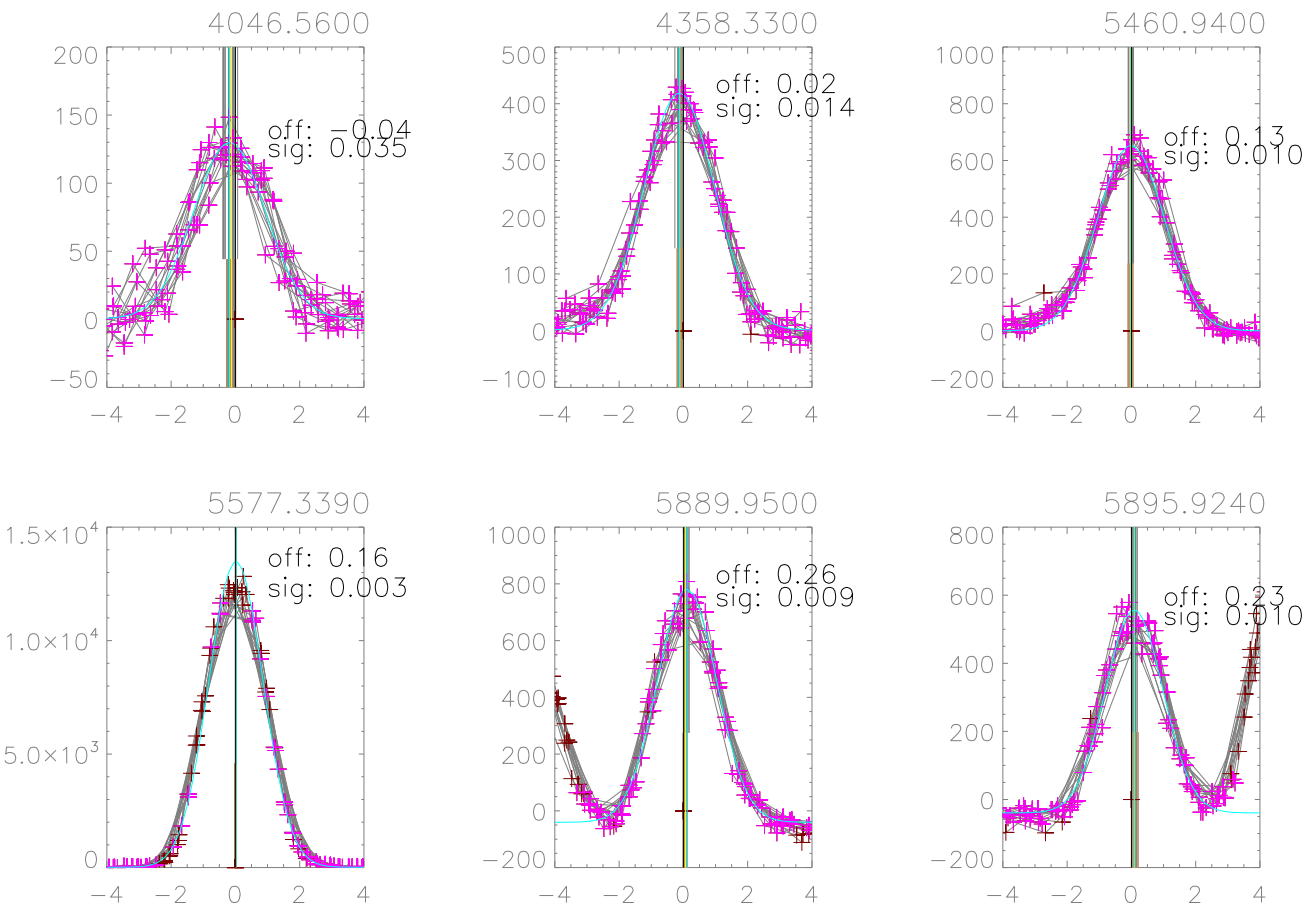

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR−b2−00008024.f
12.5
11.1
9.6
0
Y [pix]
X [pix]
0
500
1000
1500
2000

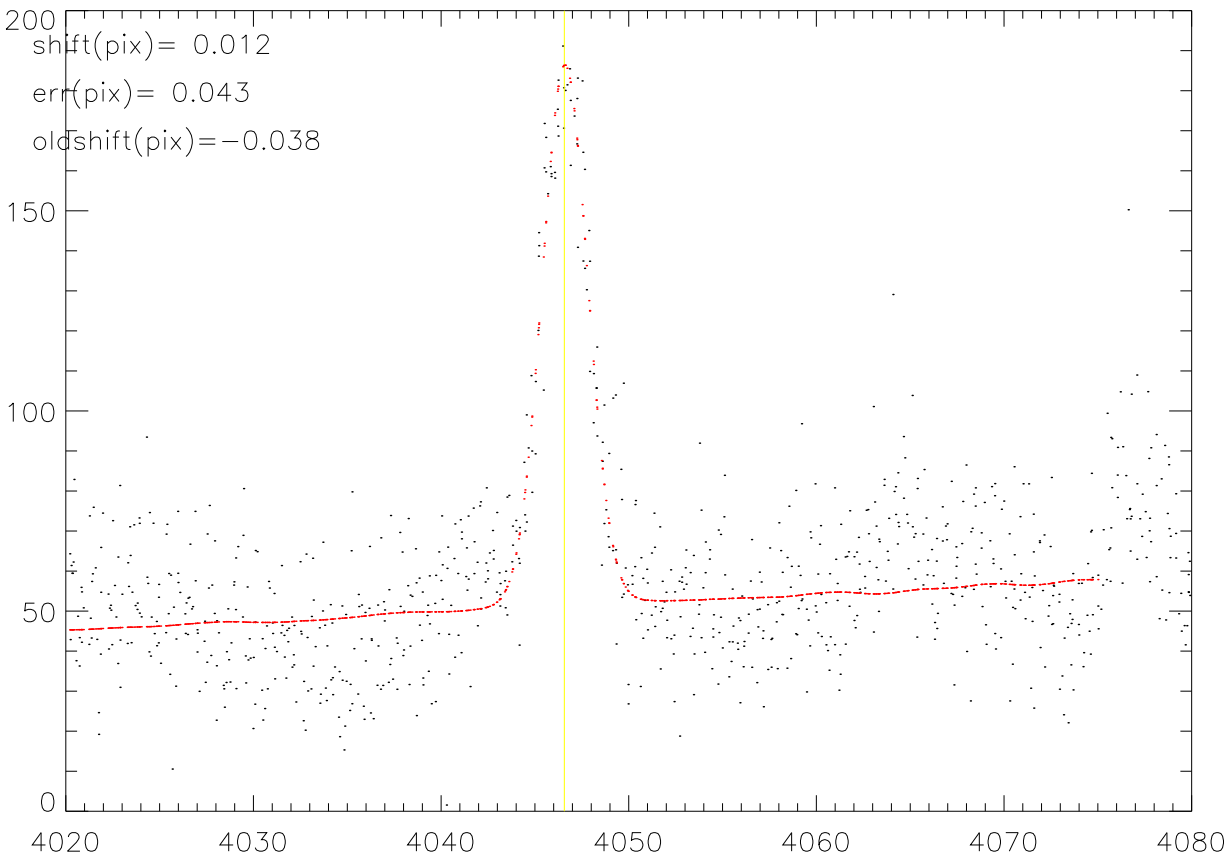

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-b2-00008024.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.725
Max value = 12.333
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:34:39 2008

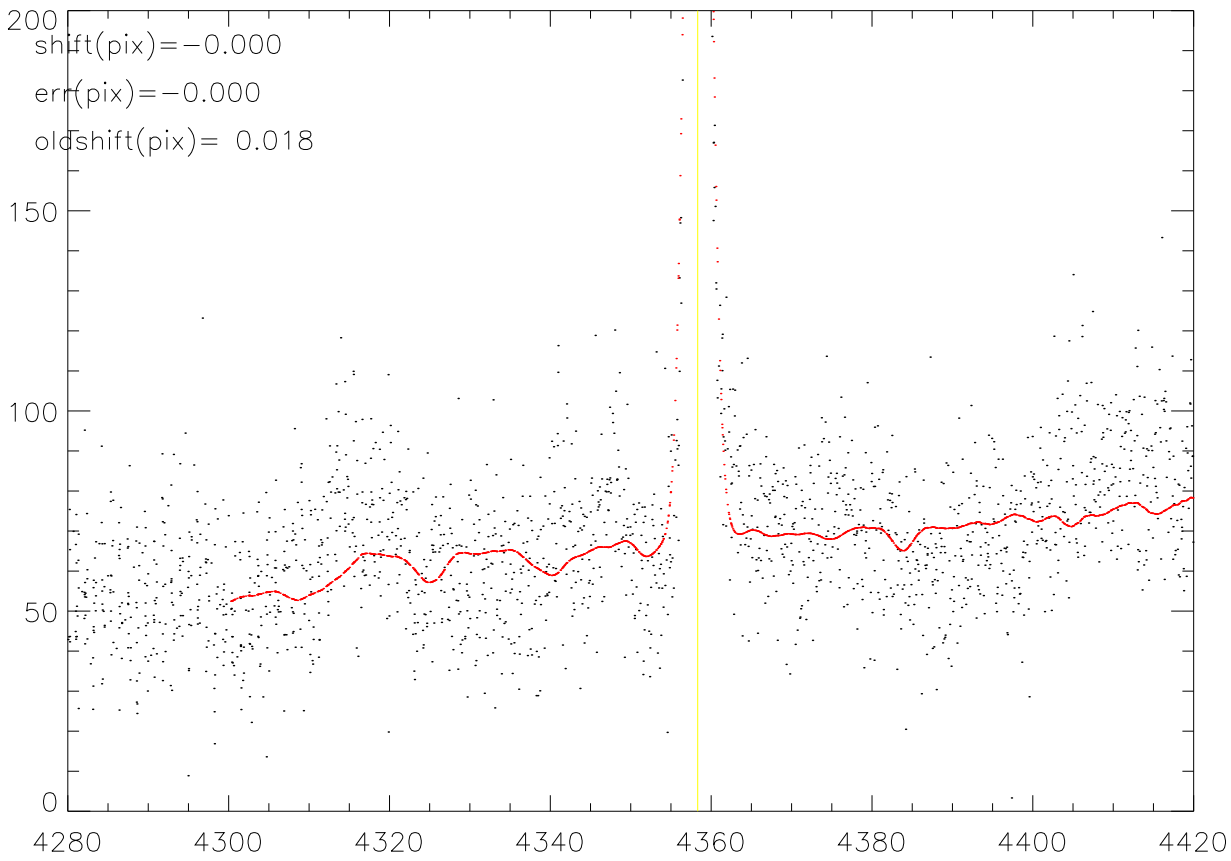

PLATE=0465 MJD=51910 Scattered Light on sdR-b2-00008024.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.82
7.73
6.64
0

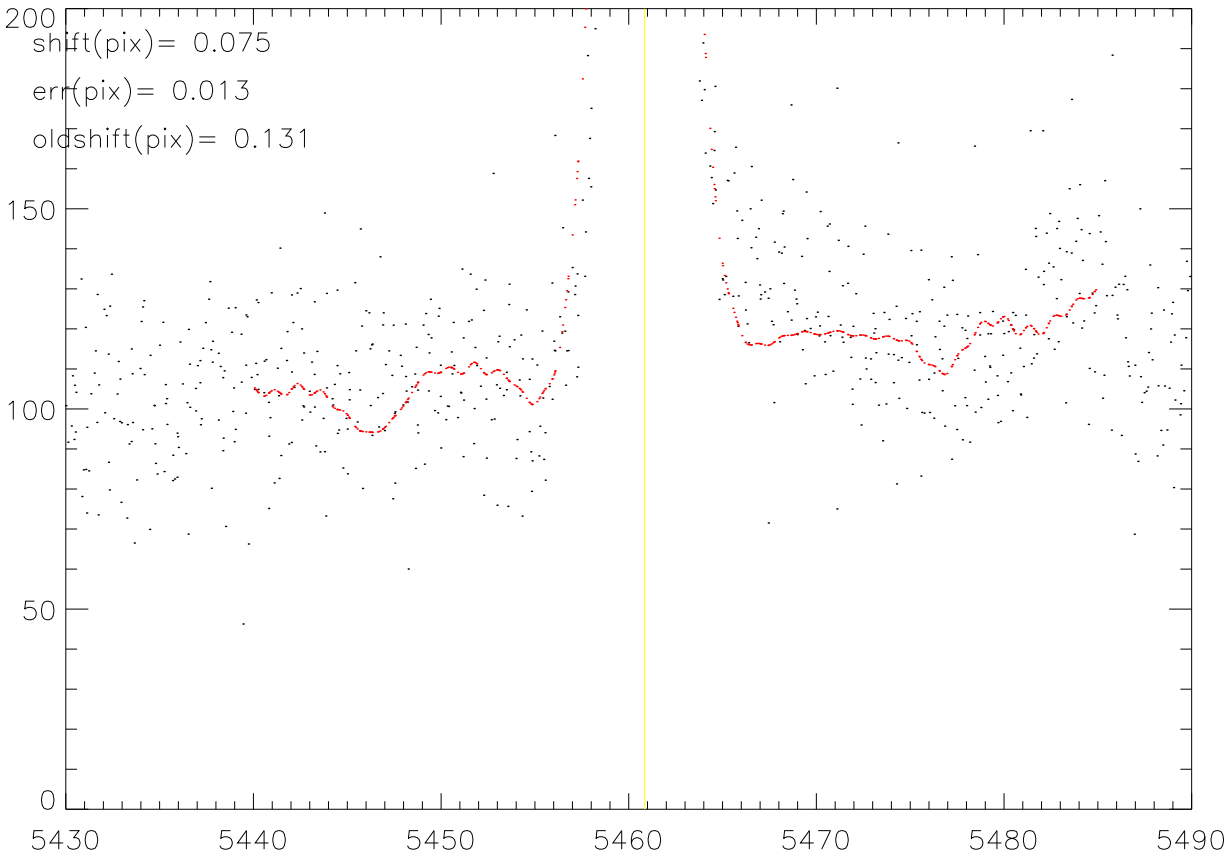

PLATE=0465 MJD=51910 Scattered Light on sdR-b2-00008024.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.126
Max value = 8.729
Wed Feb 27 12:37:15 2008

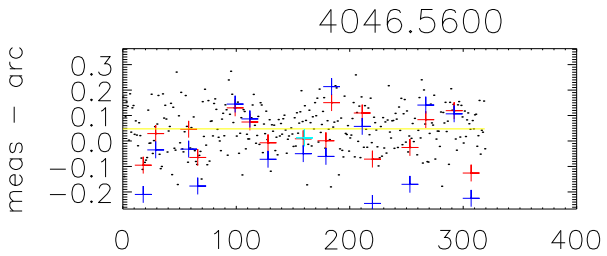

PLATE=0465 MJD=51910 Extraction chi^2 for sdR-b2-00008024.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

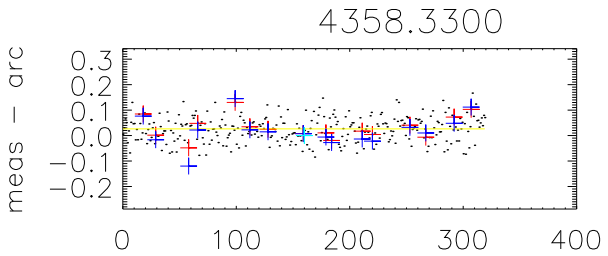

4046.5600
off: −0.04
sig: 0.035
4358.3300
off: 0.02
sig: 0.014
5460.9400
off: 0.13
sig: 0.010
5577.3390
off: 0.16
sig: 0.003
5889.9500
off: 0.26
sig: 0.009
5895.9240
off: 0.23
sig: 0.010

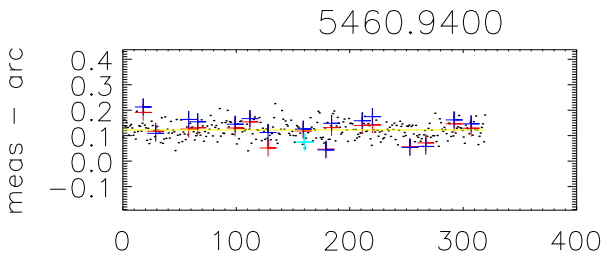

shift(pix)= 0.012
err(pix)= 0.043
oldshift(pix)=-0.038
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

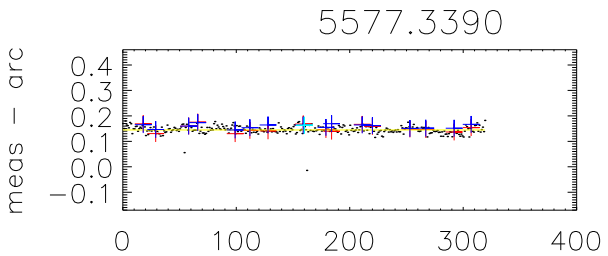

shift(pix)=−0.000
err(pix)=−0.000
oldshift(pix)= 0.018
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

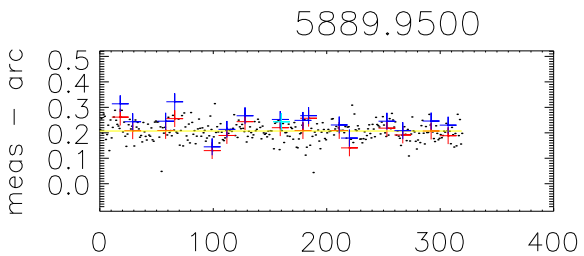

shift(pix)= 0.075
err(pix)= 0.013
oldshift(pix)= 0.131
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

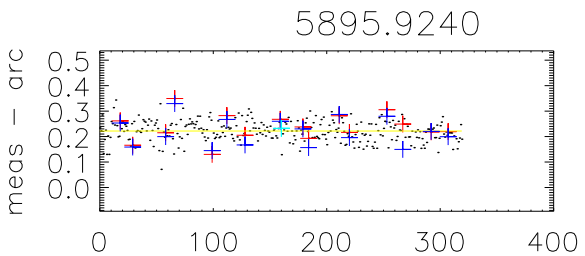

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

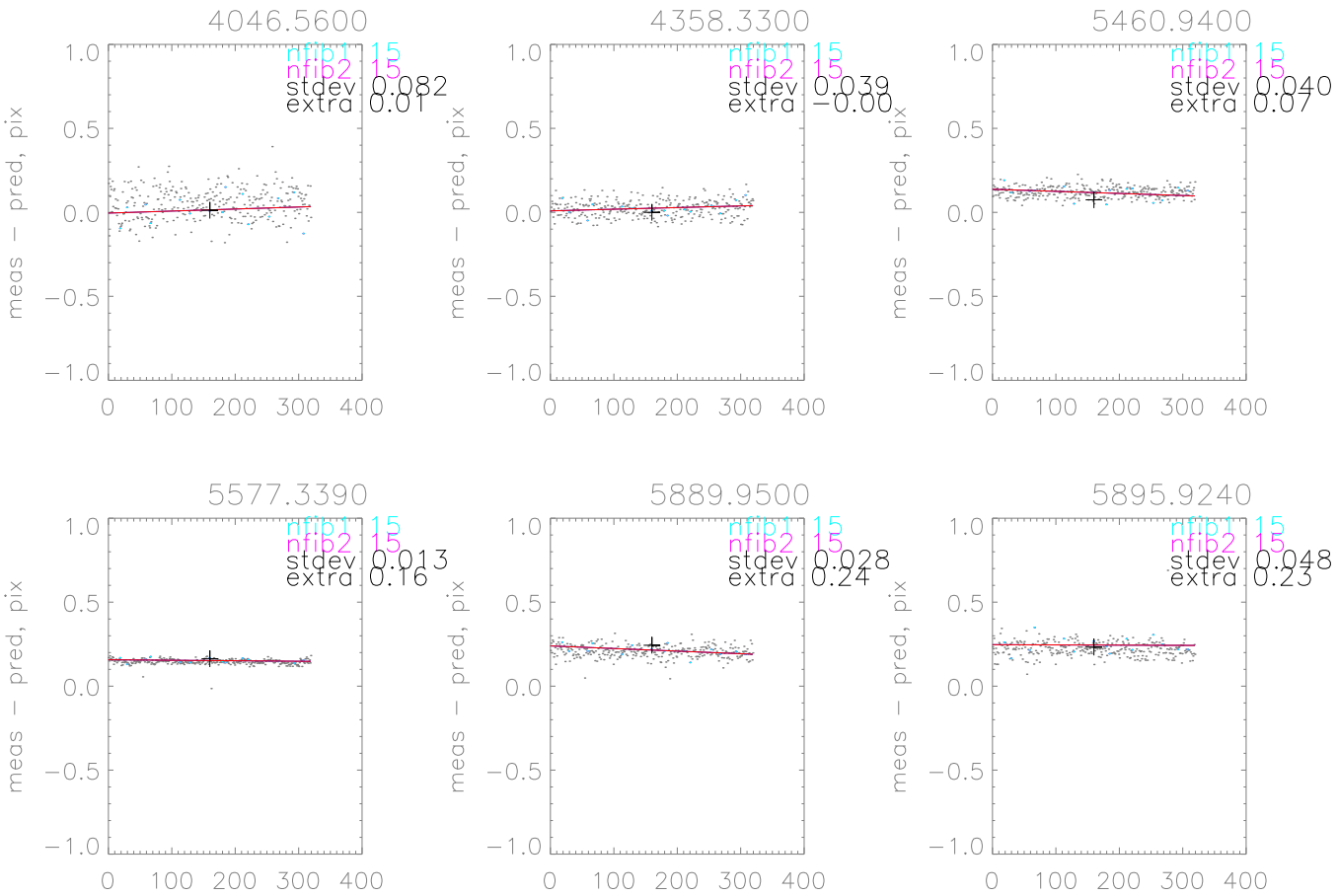

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

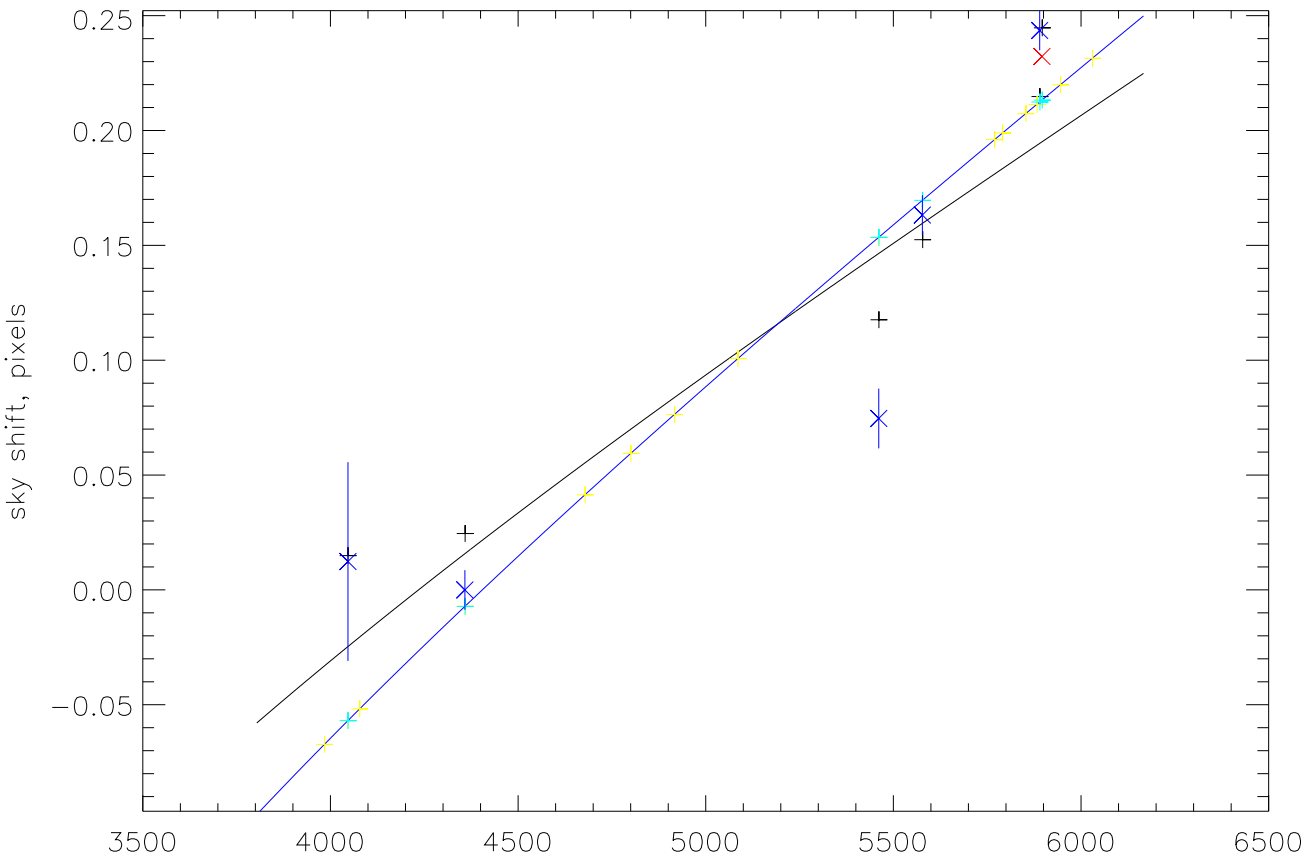

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

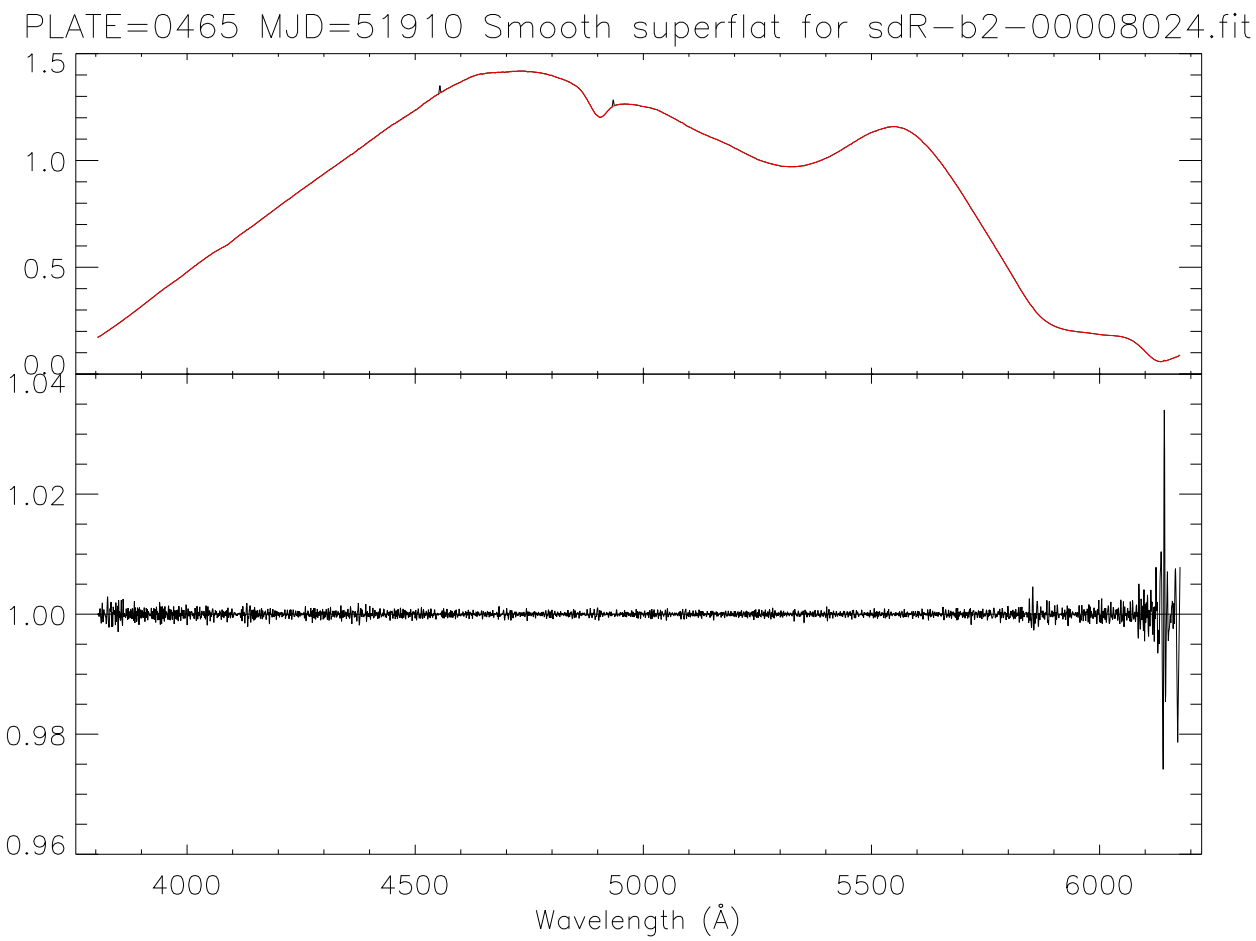

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

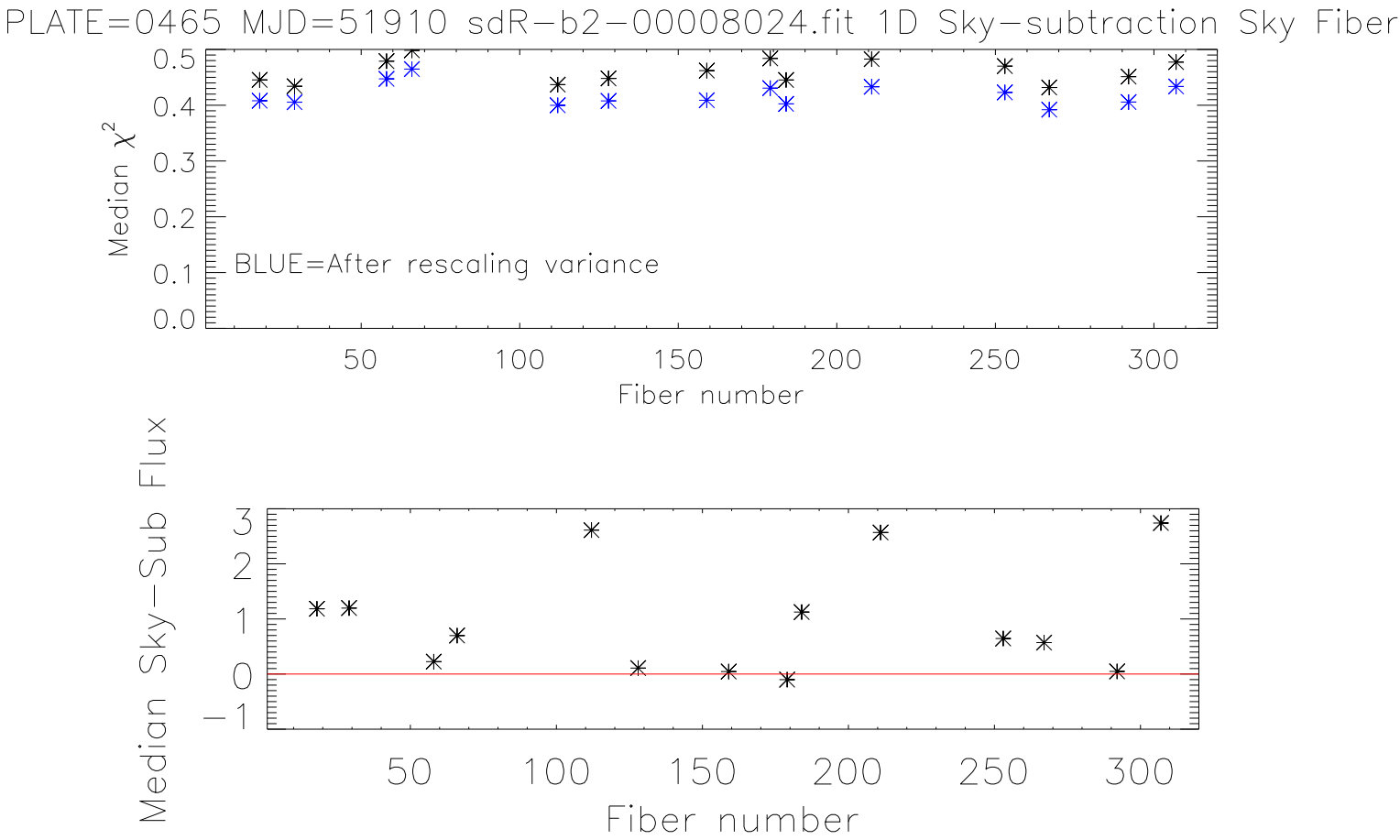

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

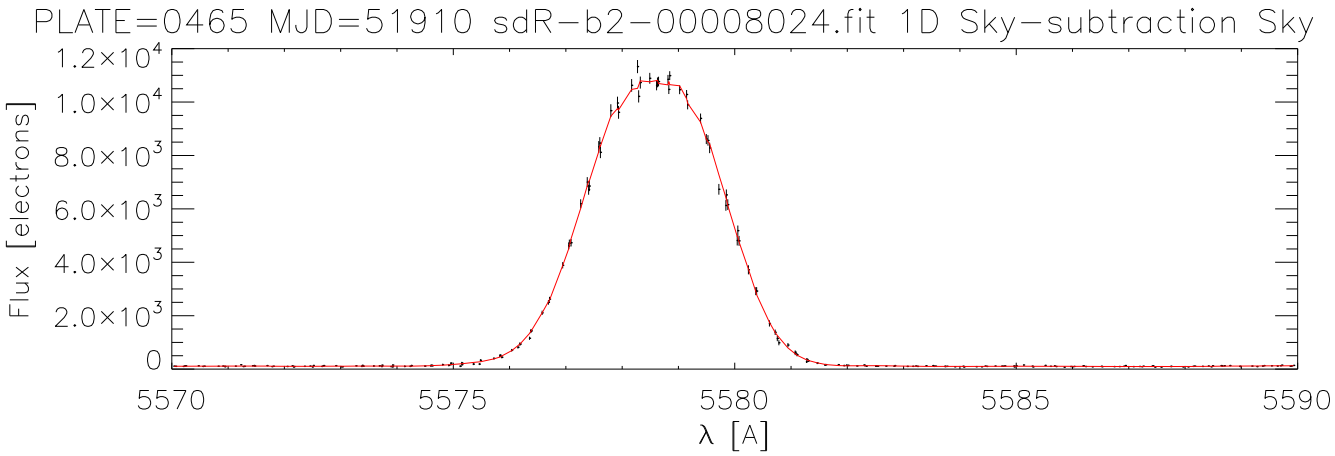

4046.5600
nfib1 15
nfib2 15
stdev 0.082
extra 0.01
4358.3300
nfib1 15
nfib2 15
stdev 0.039
extra −0.00
5460.9400
nfib1 15
nfib2 15
stdev 0.040
extra 0.07
5577.3390
nfib1 15
nfib2 15
stdev 0.013
extra 0.16
5889.9500
nfib1 15
nfib2 15
stdev 0.028
extra 0.24
5895.9240
nfib1 15
nfib2 15
stdev 0.048
extra 0.23
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

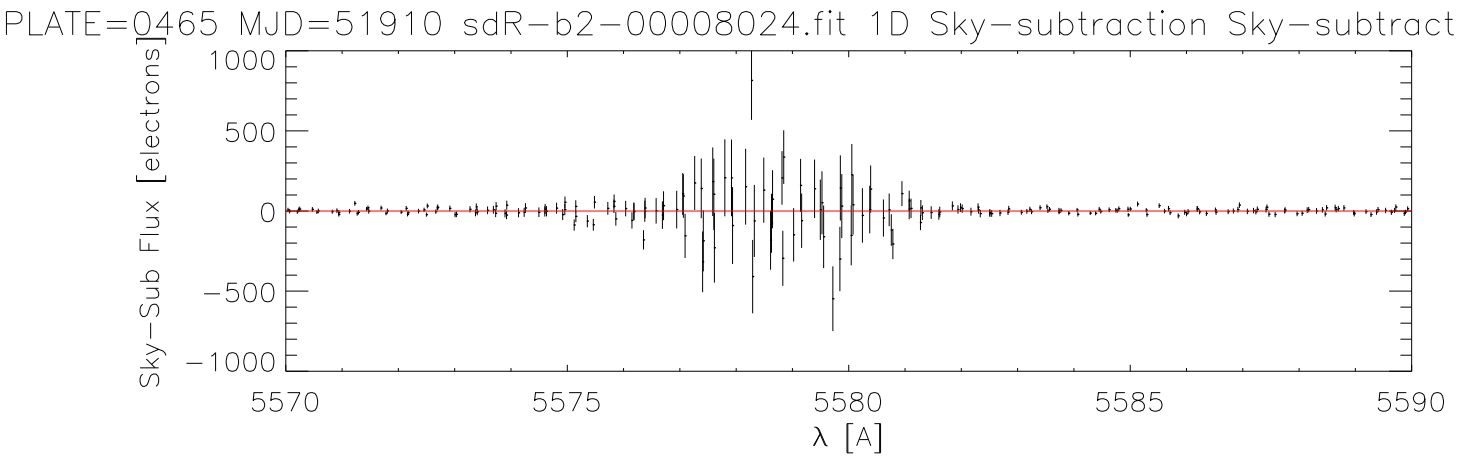

0.25
0.20
0.15
0.10
0.05
0.00
−0.05
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

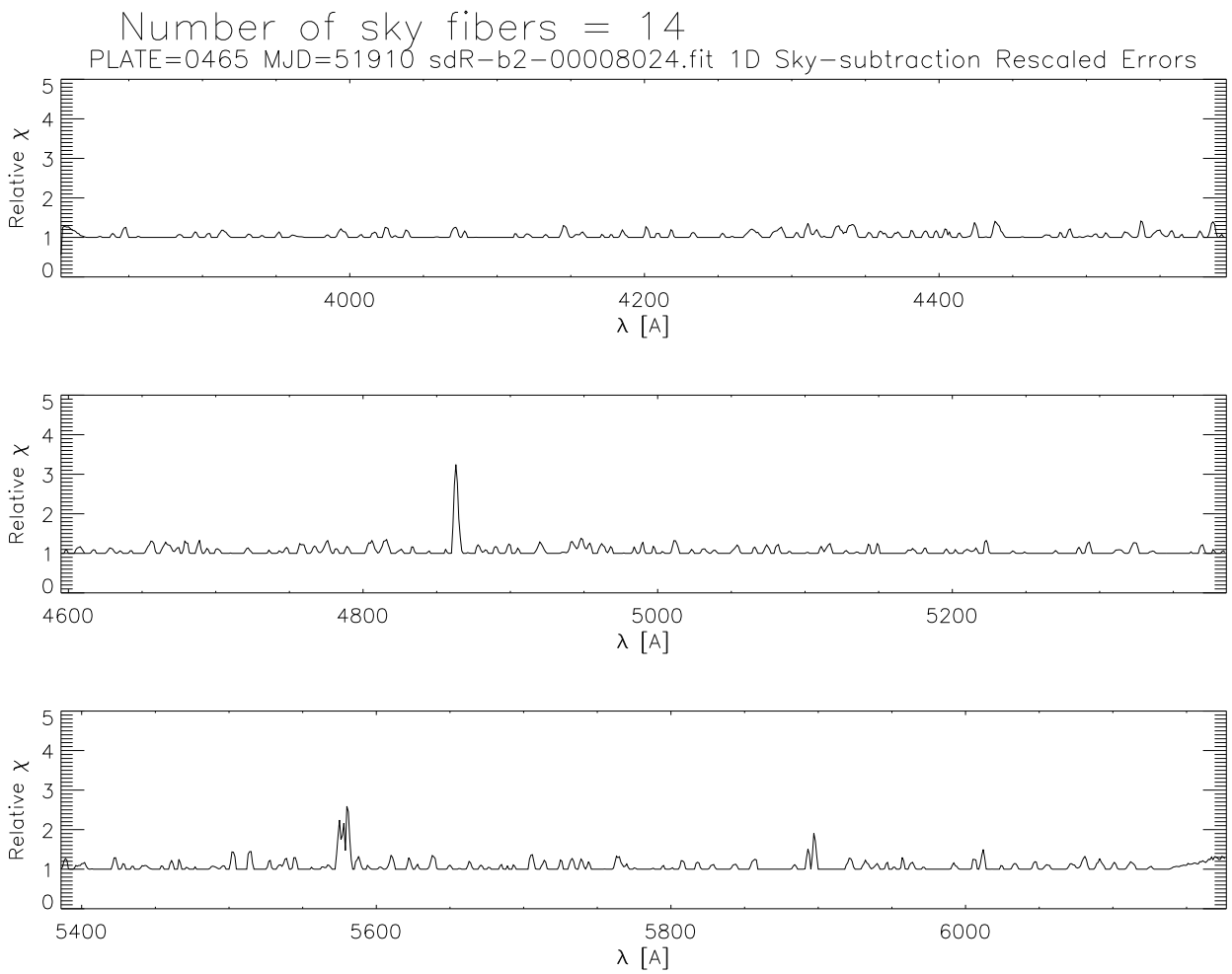
es= 0.0000

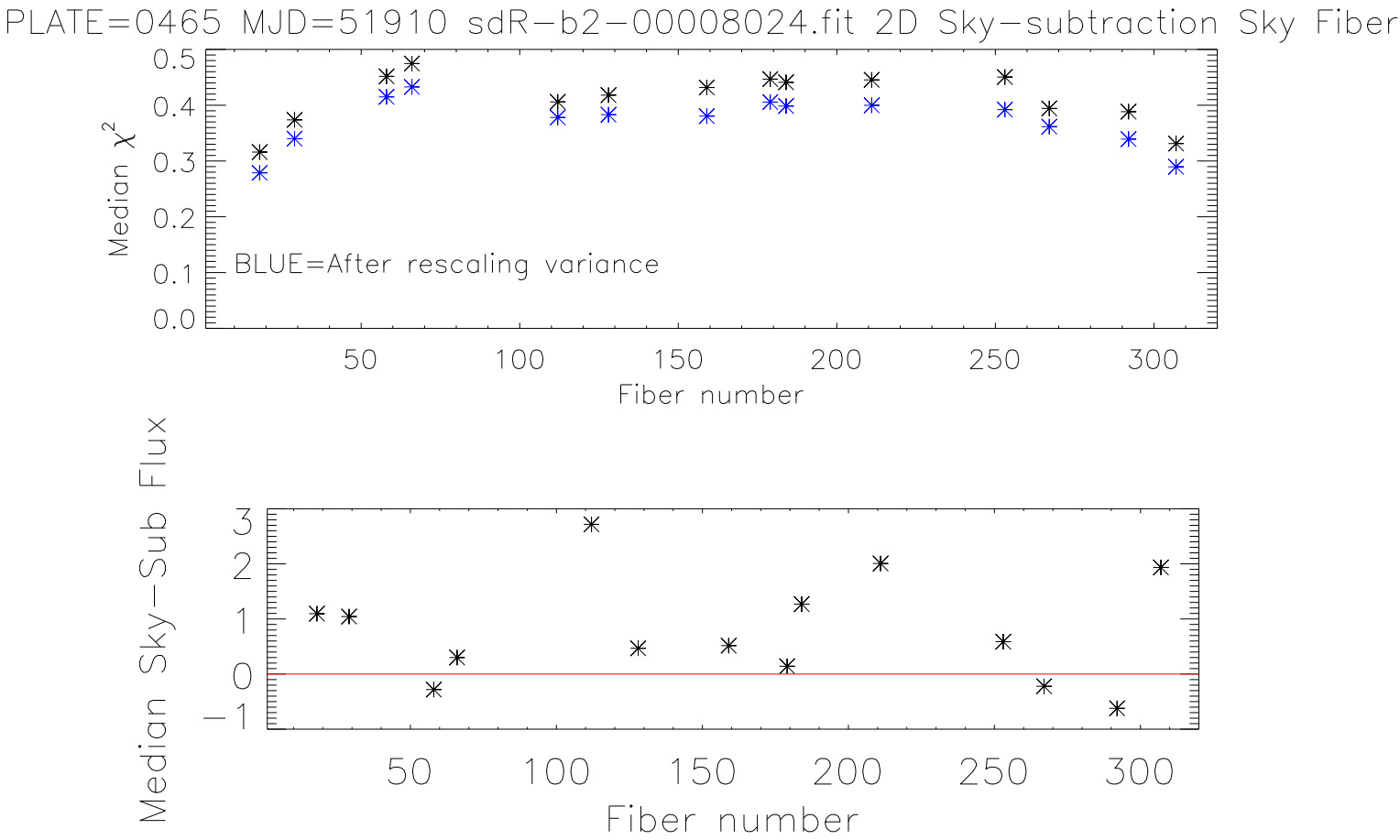

PLATE=0465 MJD=51910 Smooth superflat for sdR-b2-00008024.fit
1.5
1.0
0.5
0.0
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

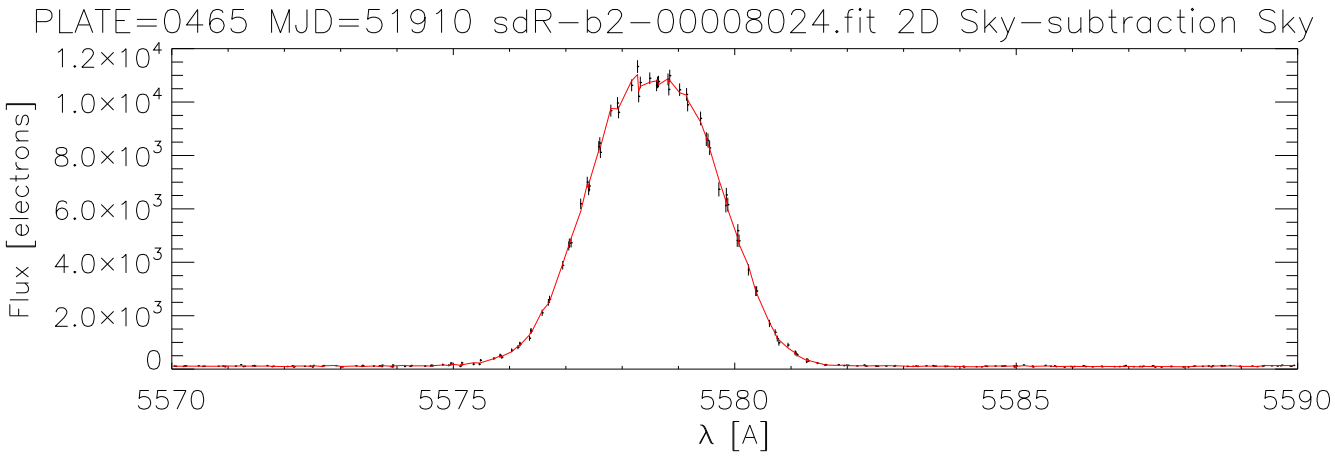

PLATE=0465 MJD=51910 sdR-b2-00008024.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

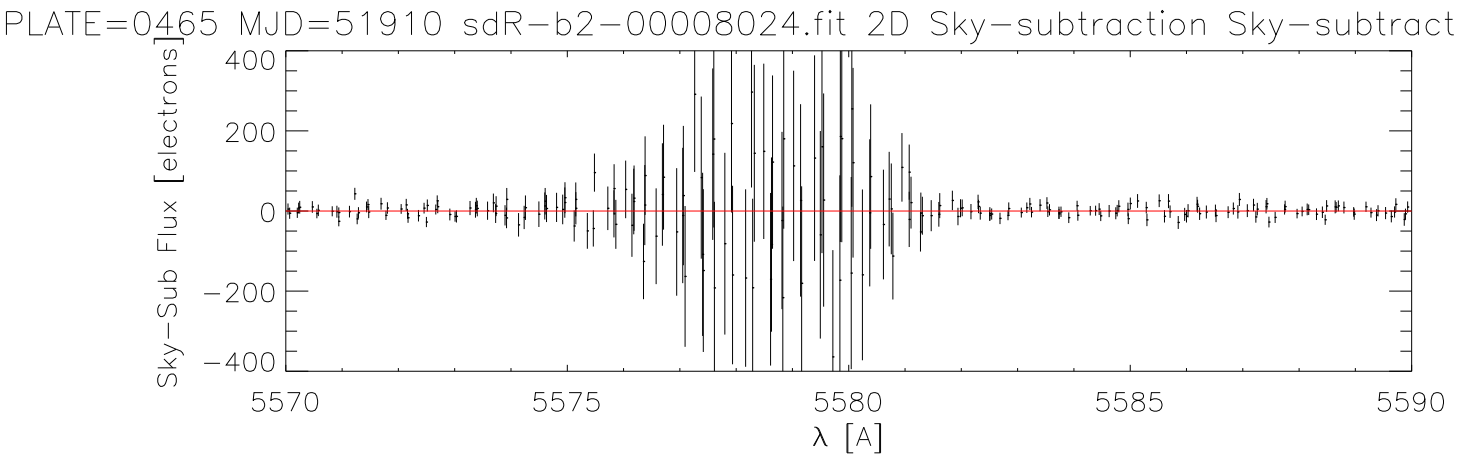

PLATE=0465 MJD=51910 sdR-b2-00008024.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

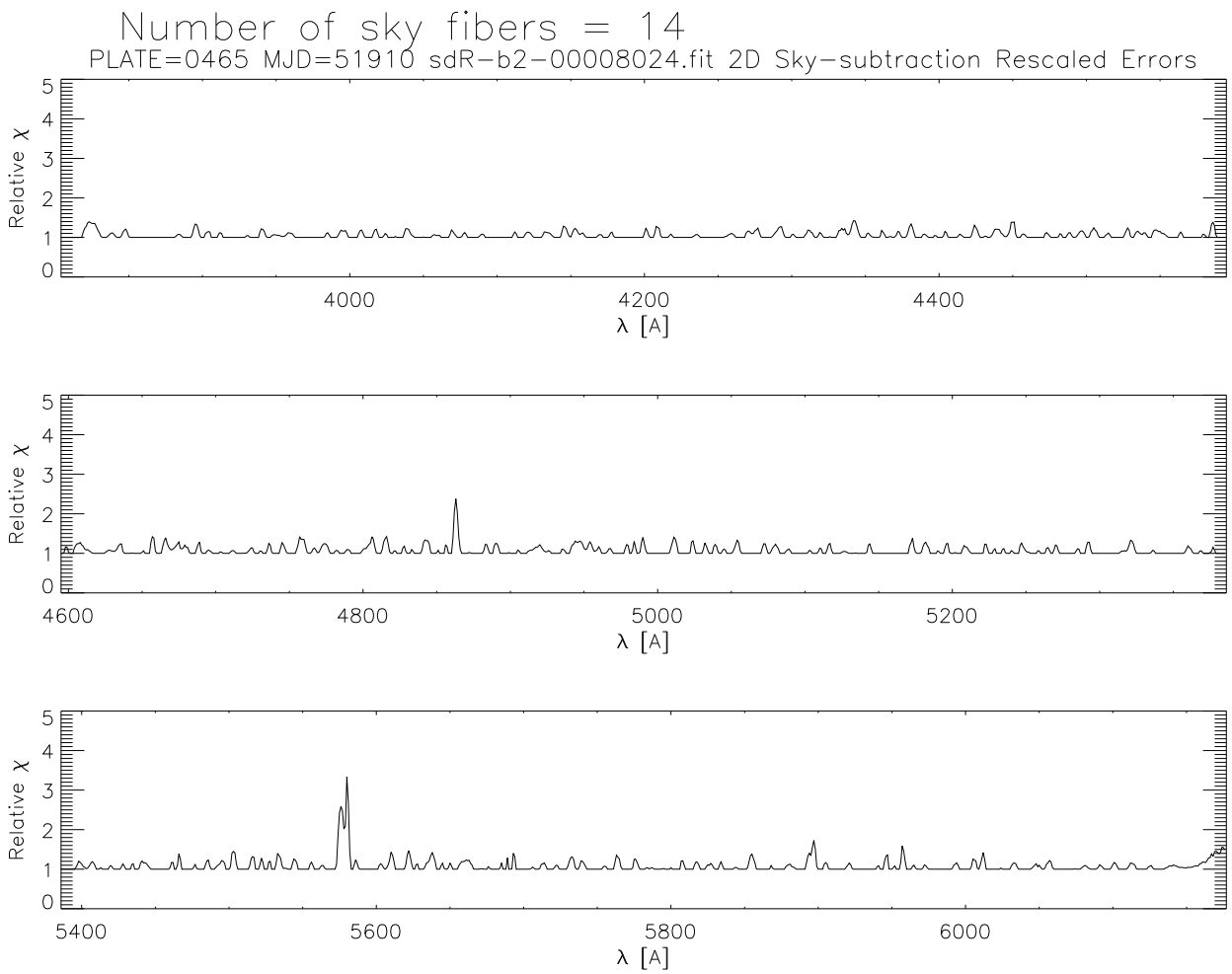

PLATE=0465 MJD=51910 sdR-b2-00008024.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

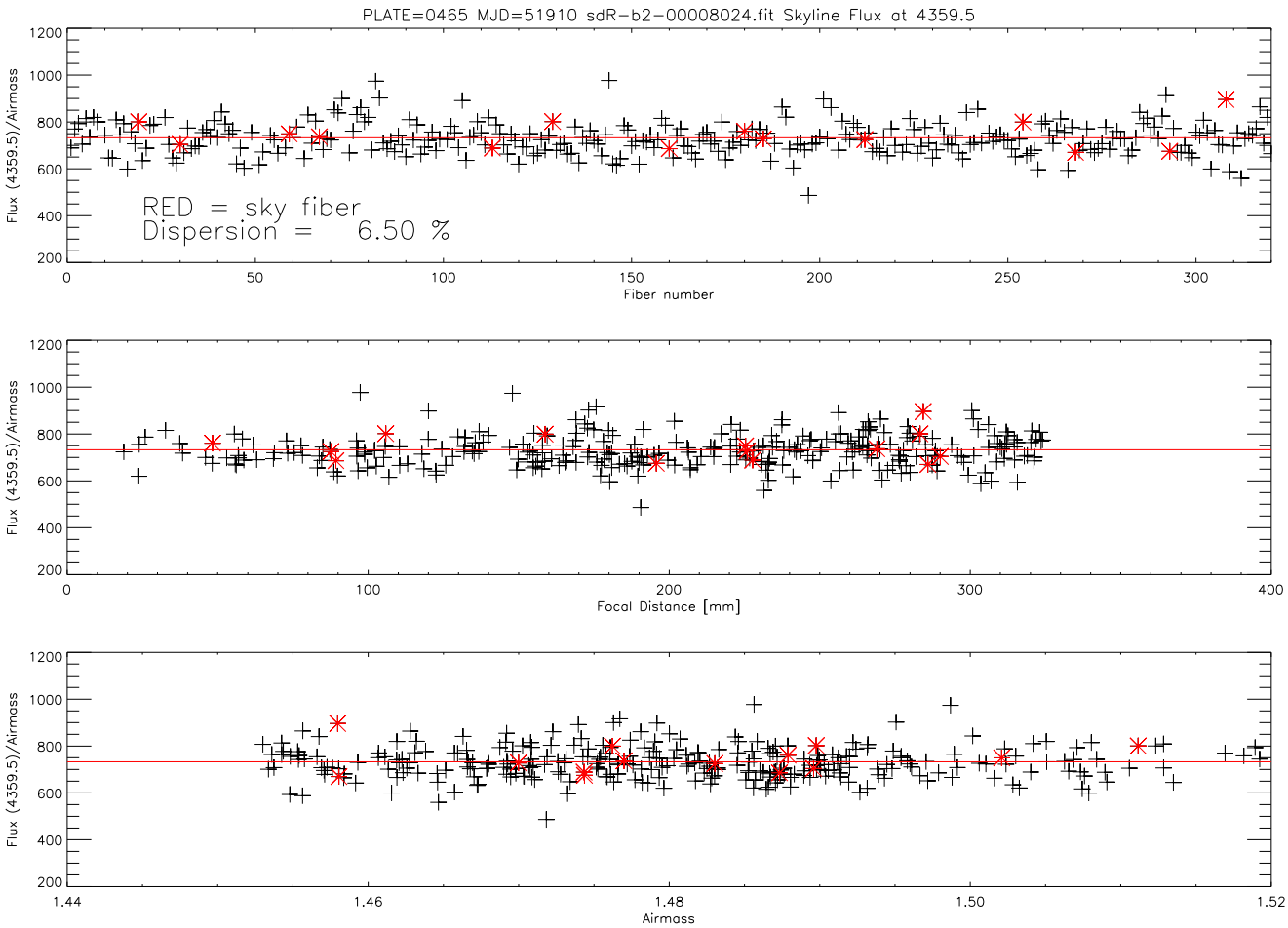

Number of sky fibers = 14
PLATE=0465 MJD=51910 sdR-b2-00008024.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

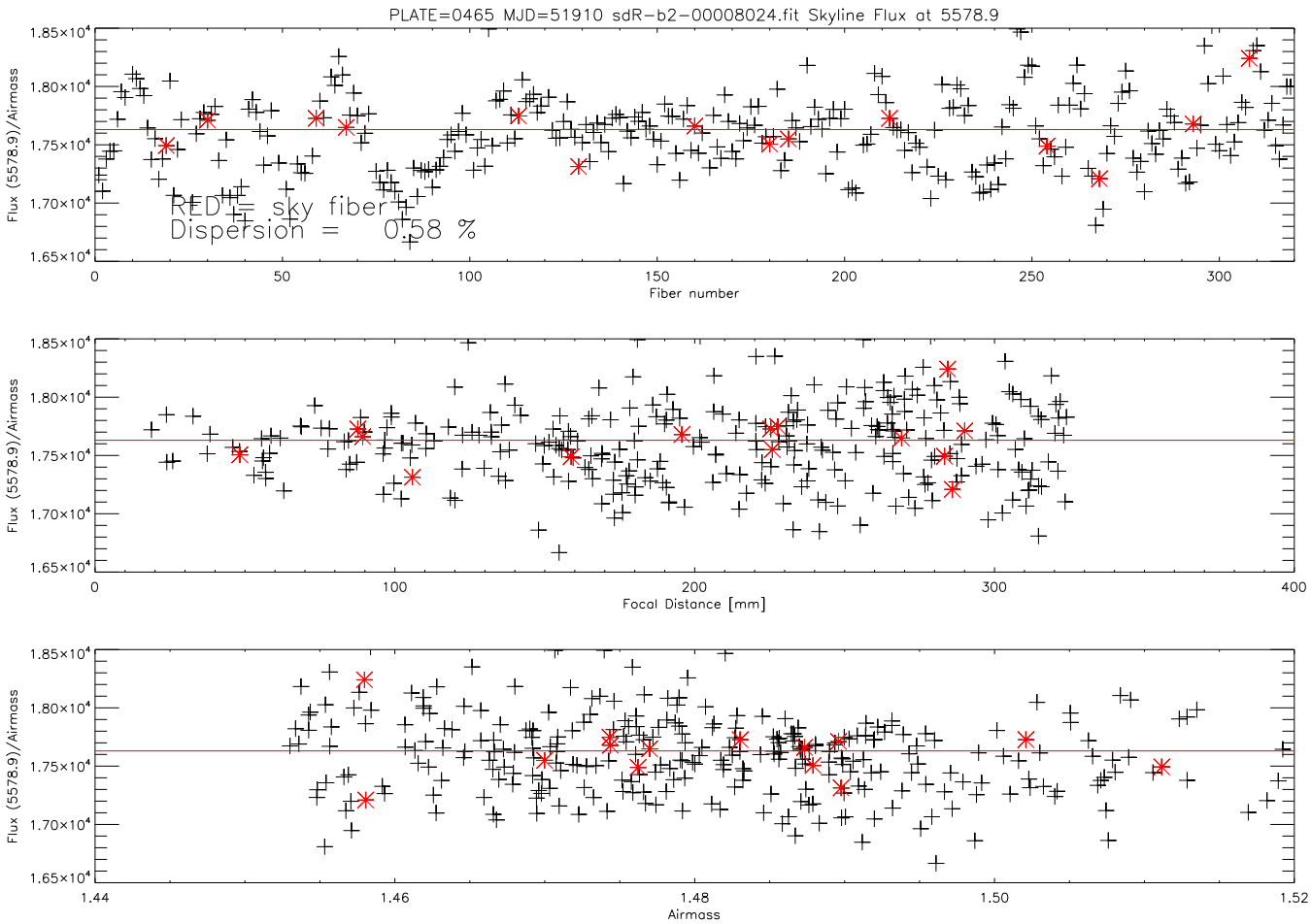

PLATE=0465 MJD=51910 sdR-b2-00008024.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

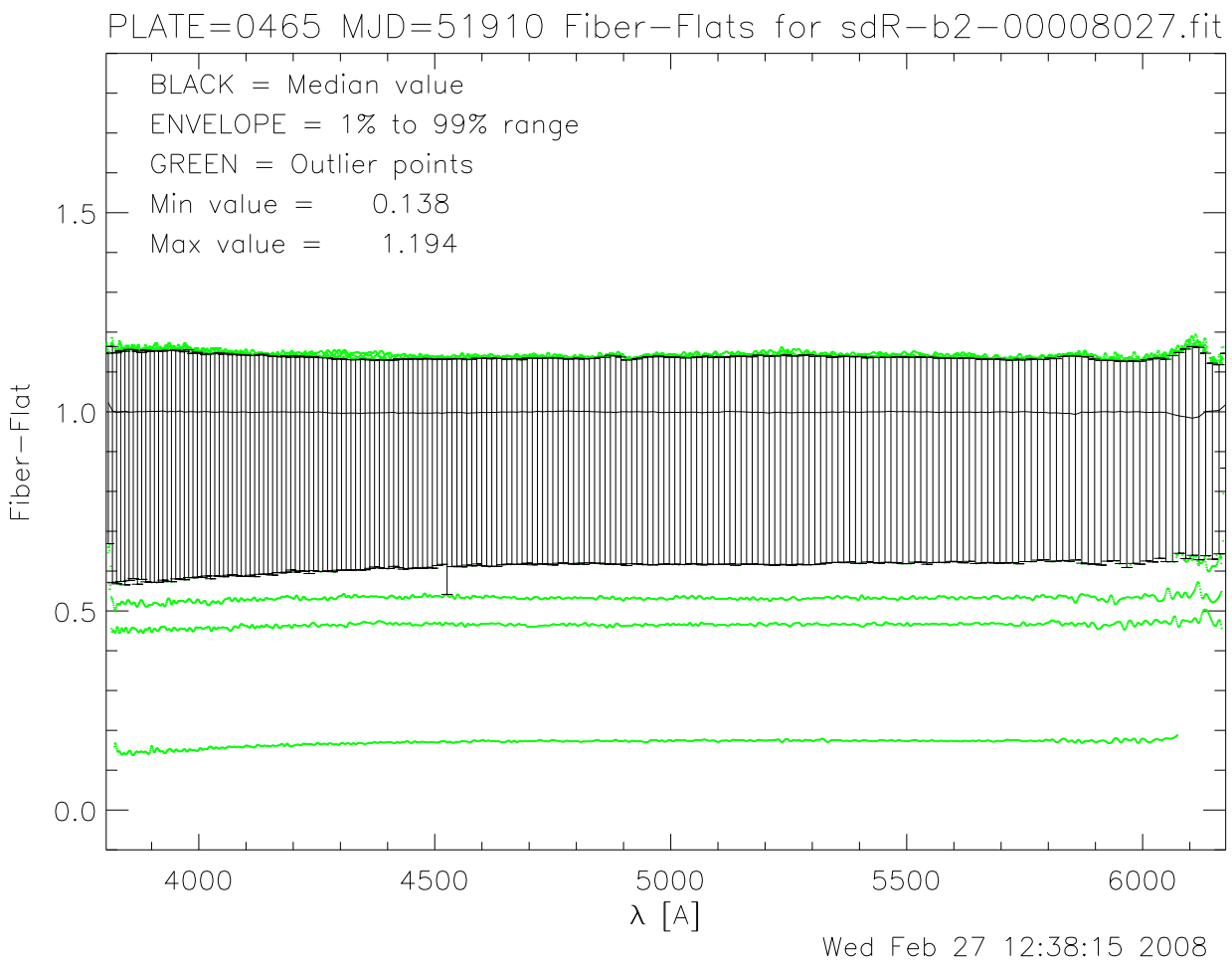

PLATE=0465 MJD=51910 sdR-b2-00008024.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

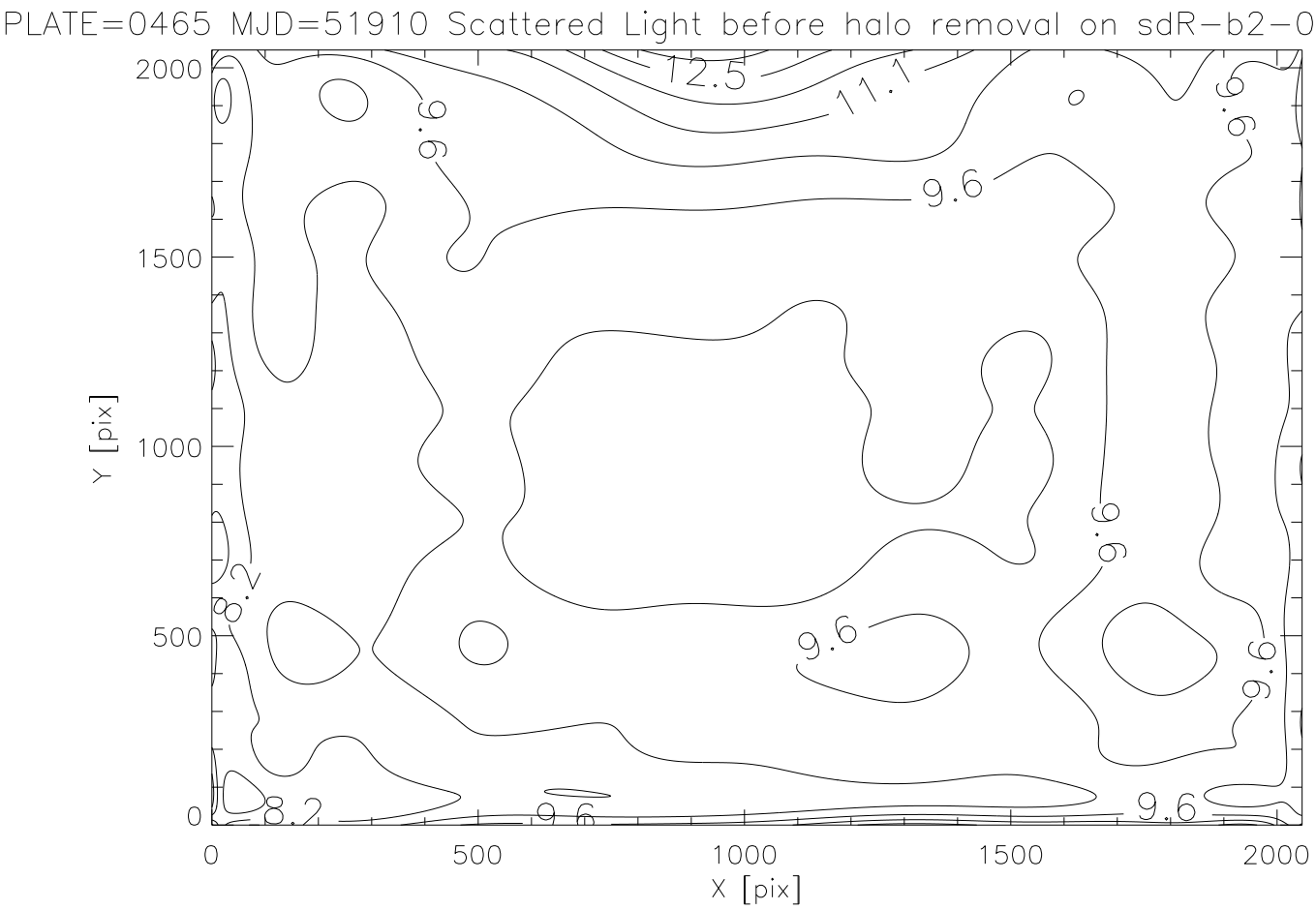

PLATE=0465 MJD=51910 sdR-b2-00008024.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

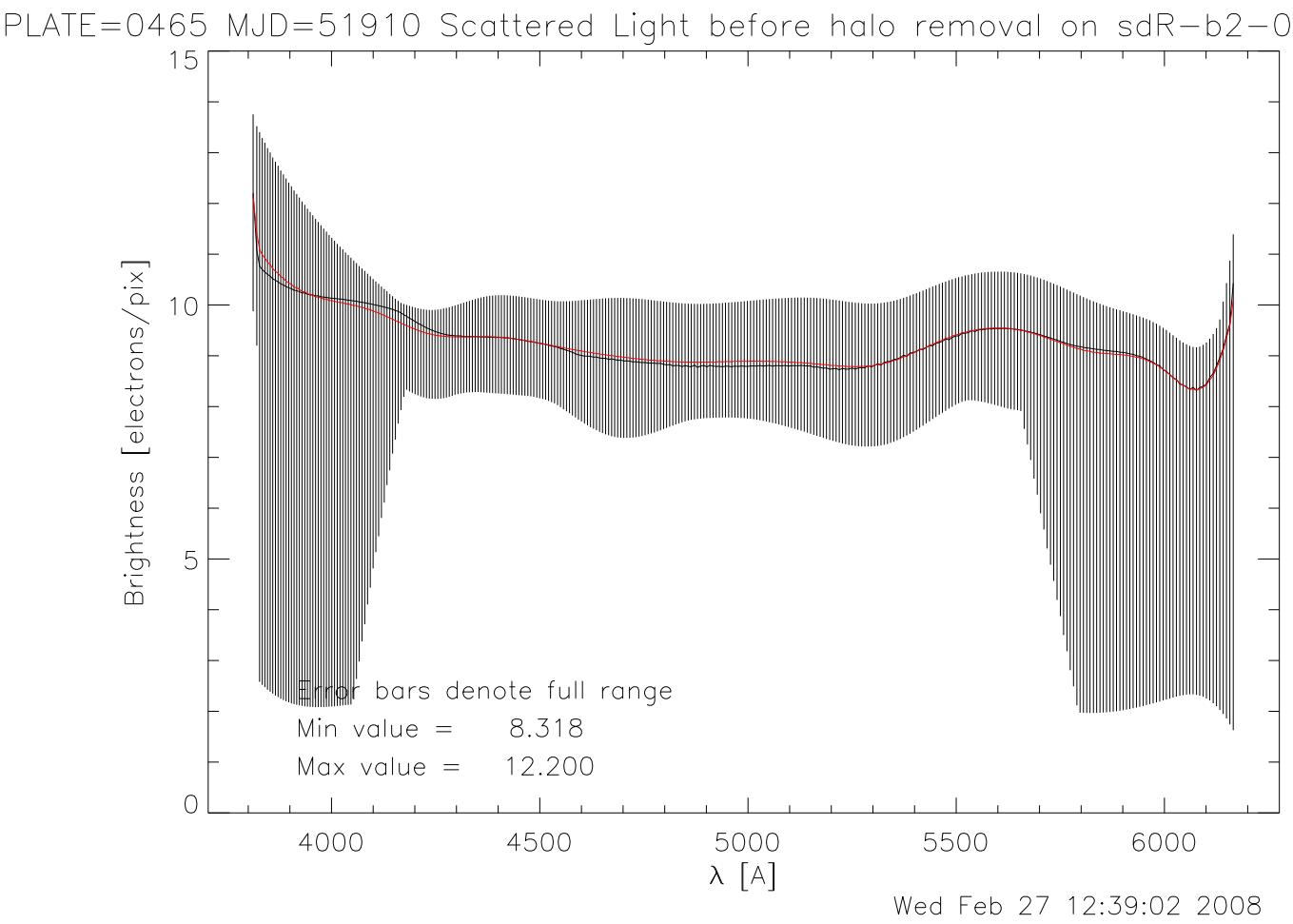

Number of sky fibers = 14
PLATE=0465 MJD=51910 sdR-b2-00008024.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

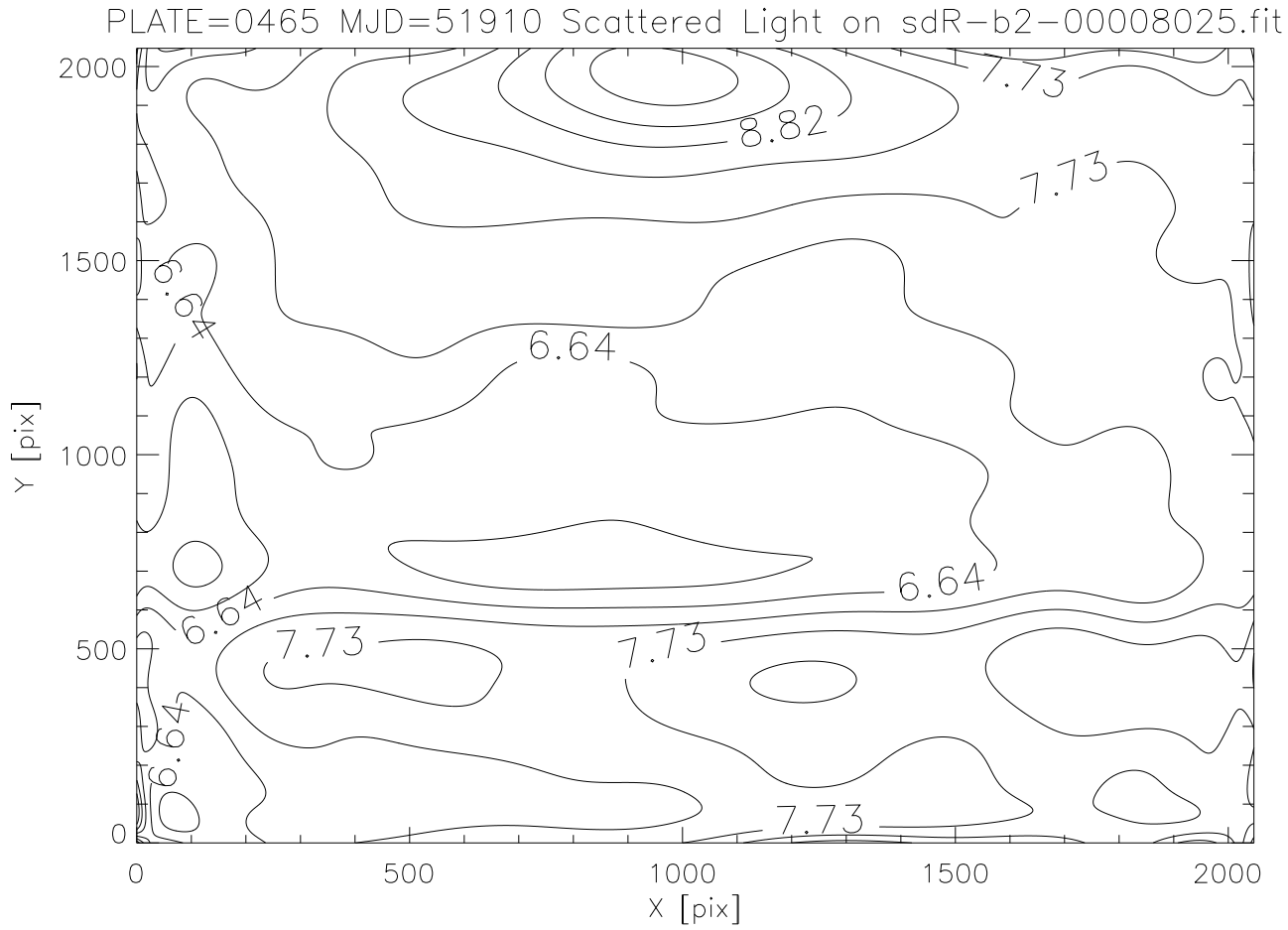

PLATE=0465 MJD=51910 sdR-b2-00008024.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 6.50 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

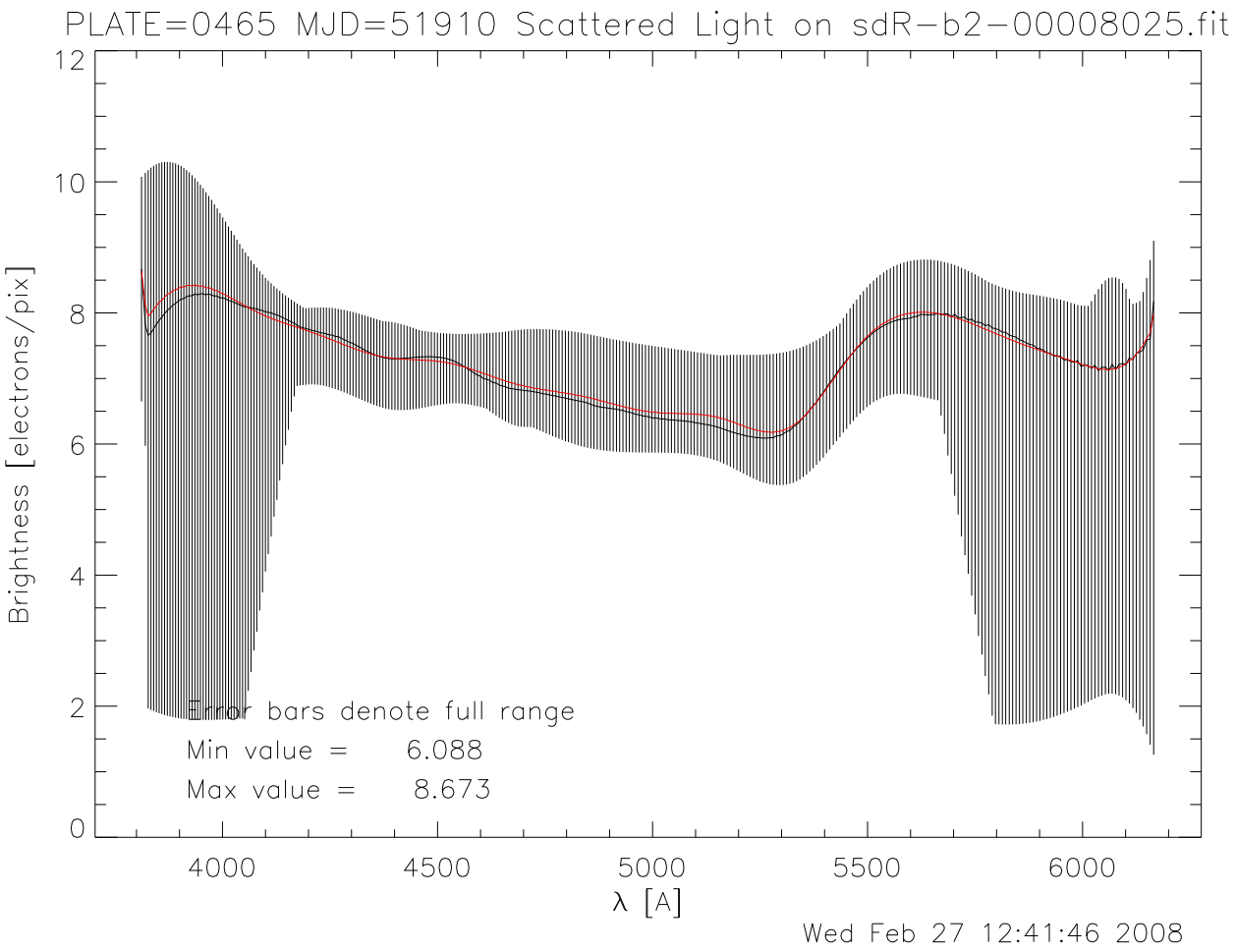

PLATE=0465 MJD=51910 sdR-b2-00008024.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.85×10^4
1.80×10^4
1.75×10^4
1.70×10^4
1.65×10^4
RED = sky fiber
Dispersion = 0.58 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1.85×10^4
1.80×10^4
1.75×10^4
1.70×10^4
1.65×10^4
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.85×10^4
1.80×10^4
1.75×10^4
1.70×10^4
1.65×10^4
1.44
1.46
1.48
1.50
1.52
Airmass

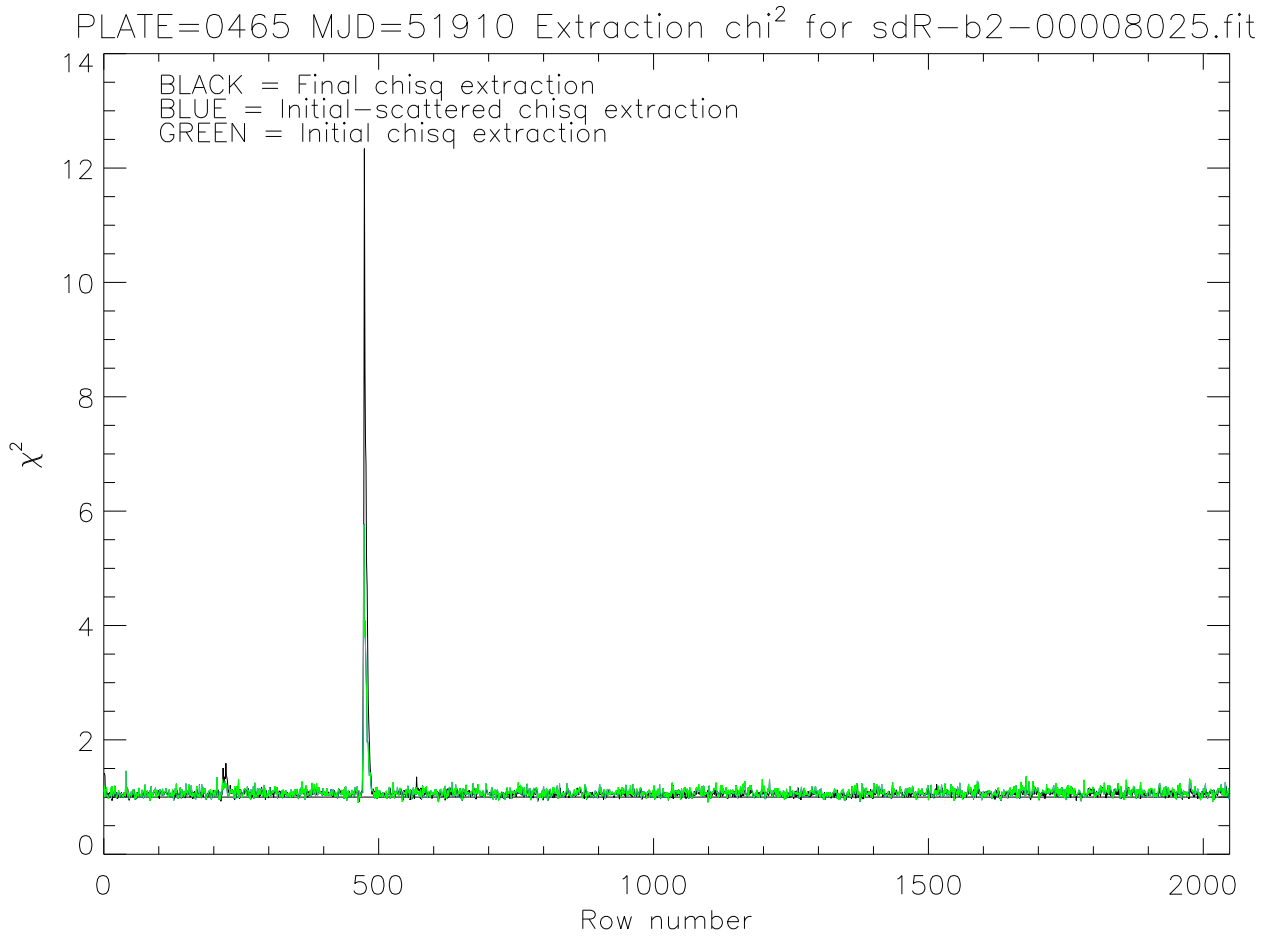

PLATE=0465 MJD=51910 Fiber-Flats for sdR-b2-00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.138
Max value = 1.194
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:38:15 2008

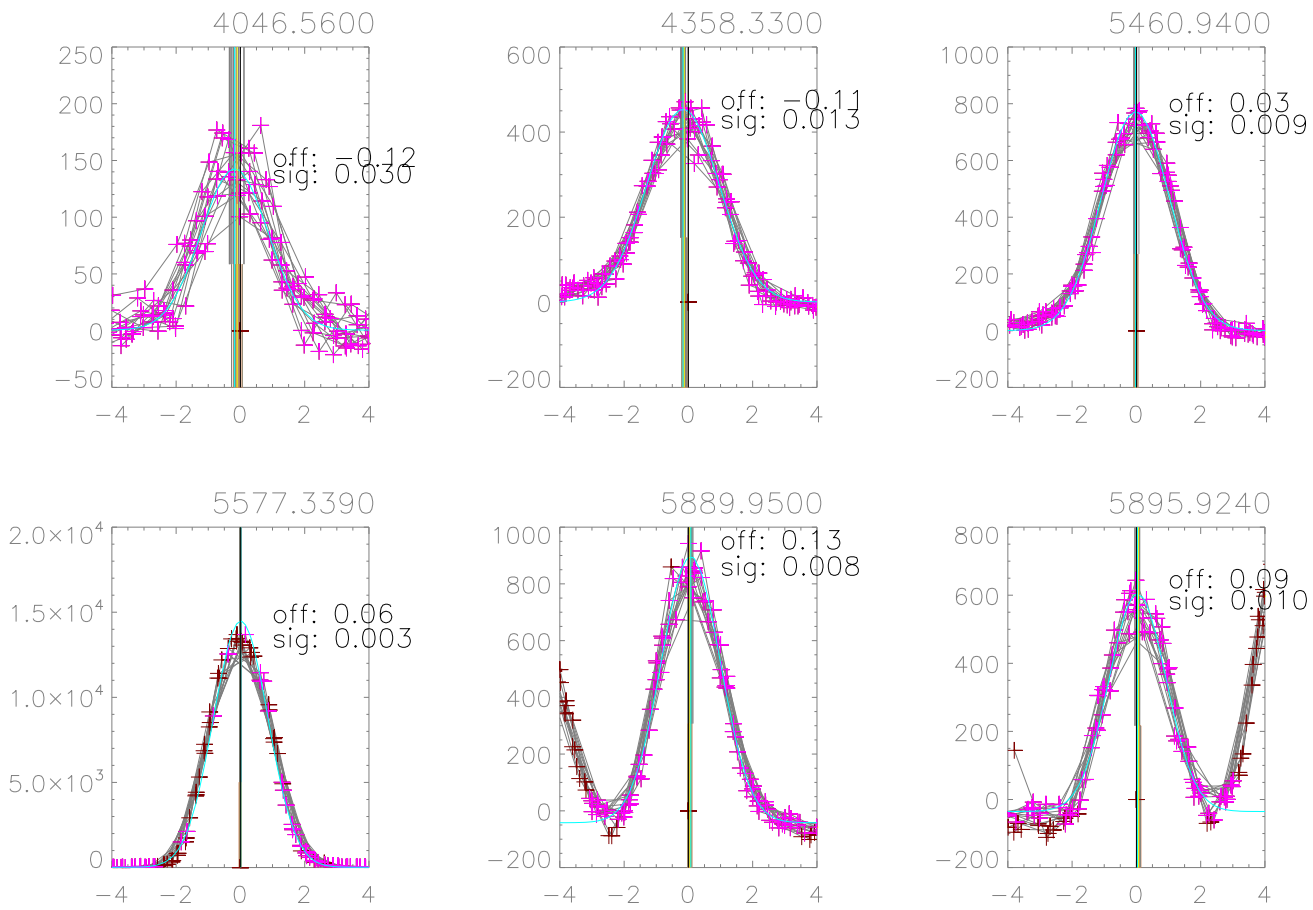

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-b2-00008025.f
12.5
11.1
9.6
8.2
Y [pix]
X [pix]
0
500
1000
1500
2000

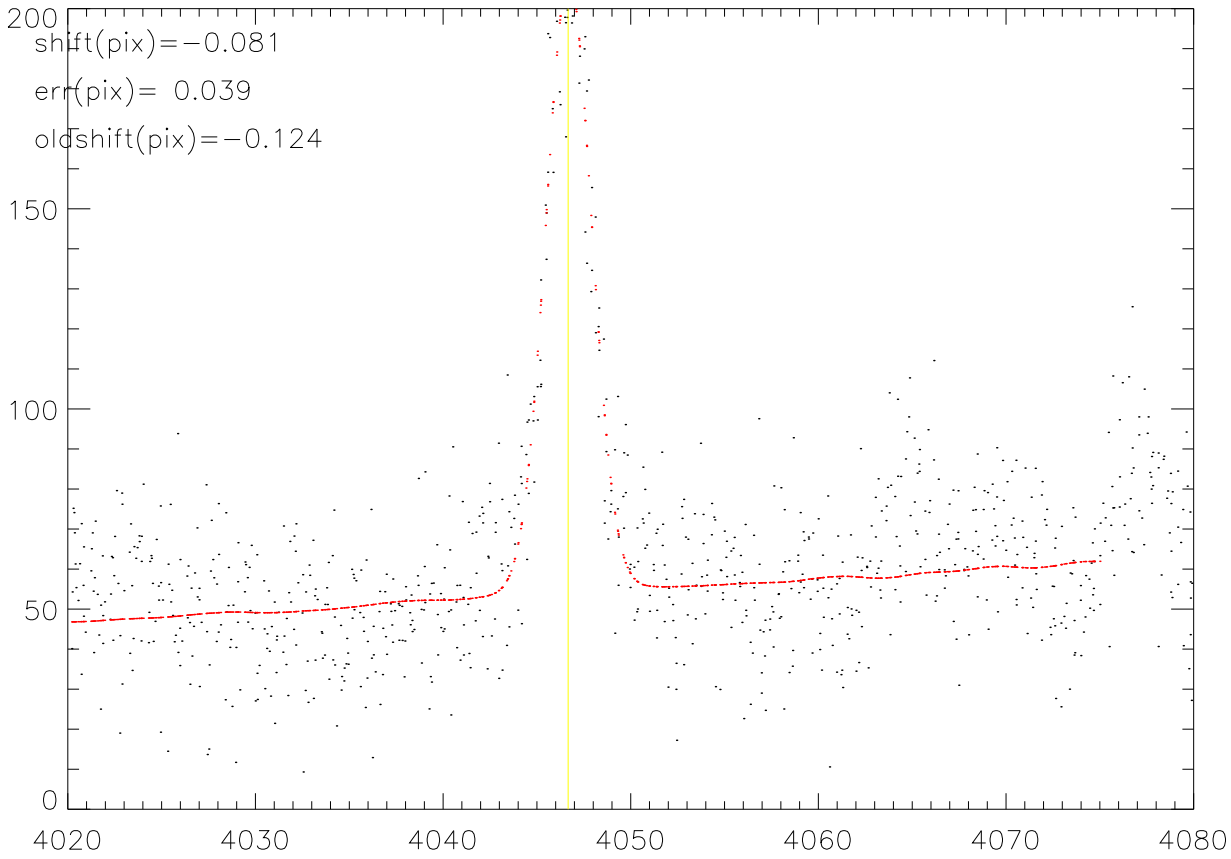

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR−b2−00008025.f
15
10
5
0
Brightness [electrons/pix]
Error bars denote full range
Min value = 8.318
Max value = 12.200
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:39:02 2008

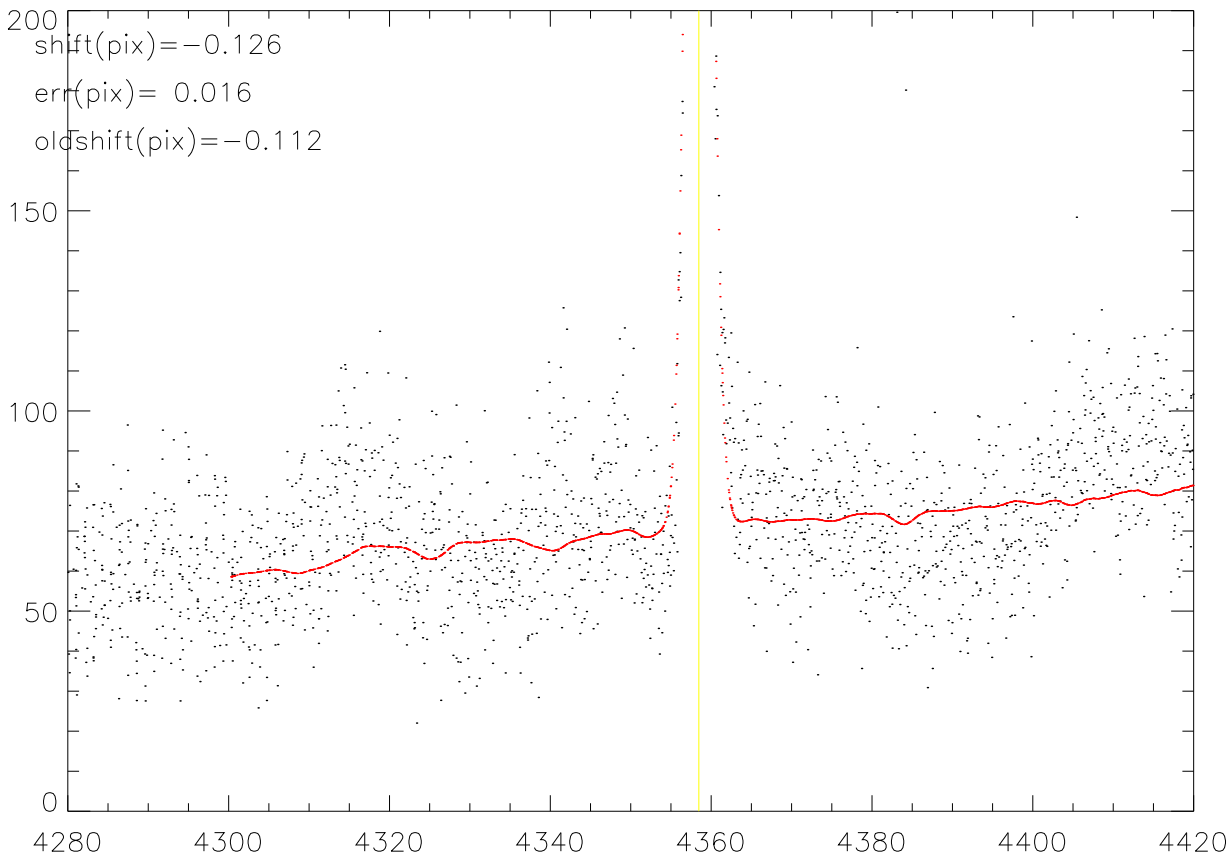

PLATE=0465 MJD=51910 Scattered Light on sdR-b2-00008025.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.82
7.73
6.64

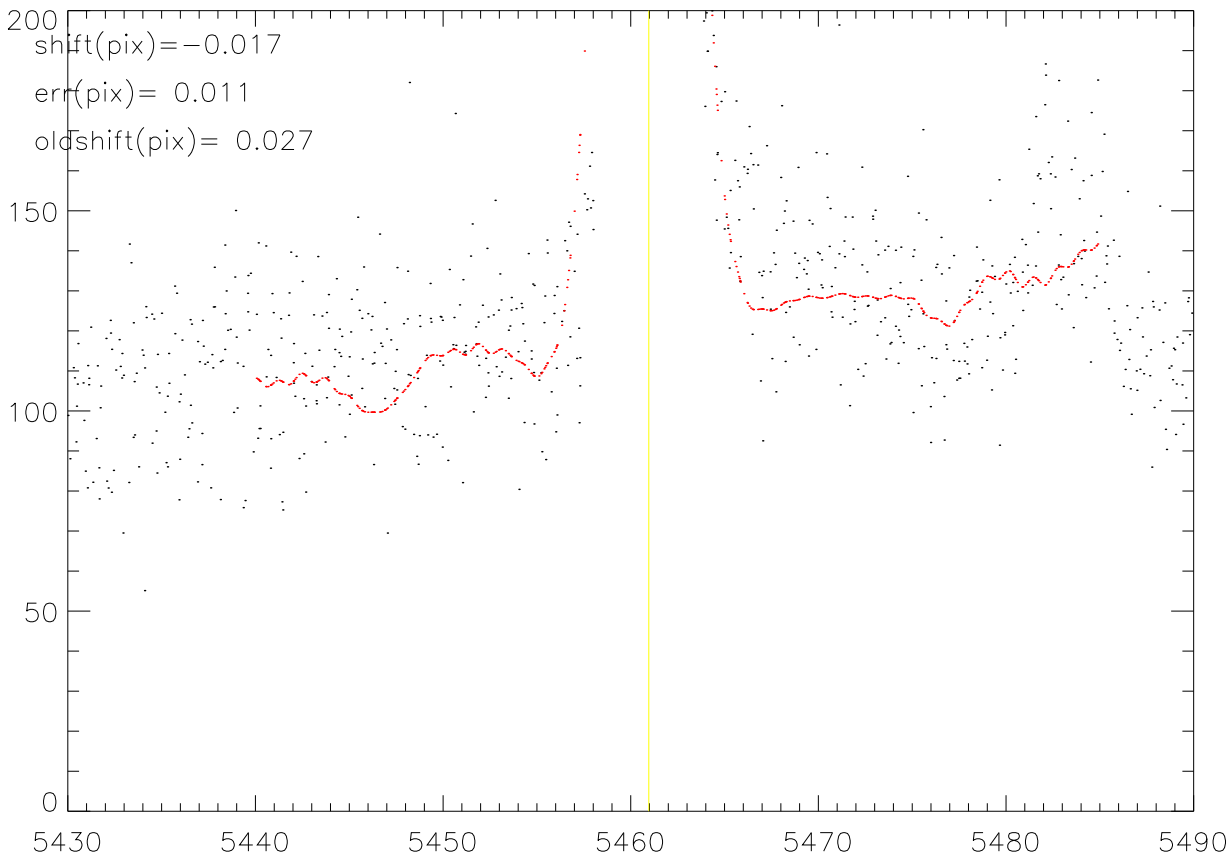

PLATE=0465 MJD=51910 Scattered Light on sdR-b2-00008025.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.088
Max value = 8.673
Wed Feb 27 12:41:46 2008

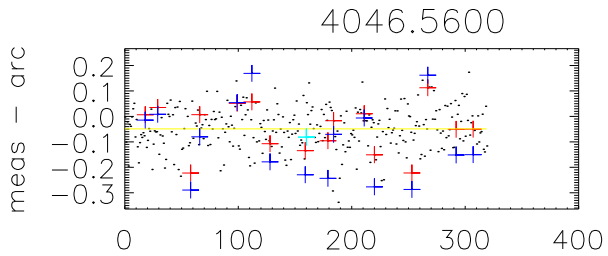

PLATE=0465 MJD=51910 Extraction chi^2 for sdR-b2-00008025.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
14
0
500
1000
1500
2000
Row number

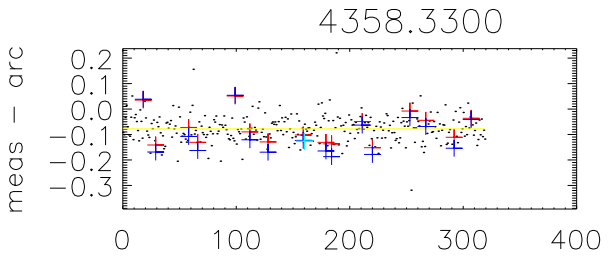

4046.5600
off: −0.12
sig: 0.030
4358.3300
off: −0.11
sig: 0.013
5460.9400
off: 0.03
sig: 0.009
5577.3390
off: 0.06
sig: 0.003
5889.9500
off: 0.13
sig: 0.008
5895.9240
off: 0.09
sig: 0.010

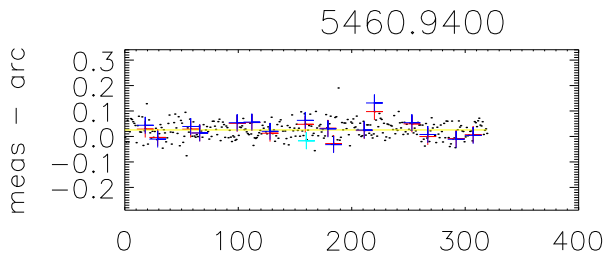

shift(pix)=−0.081
err(pix)= 0.039
oldshift(pix)=−0.124
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

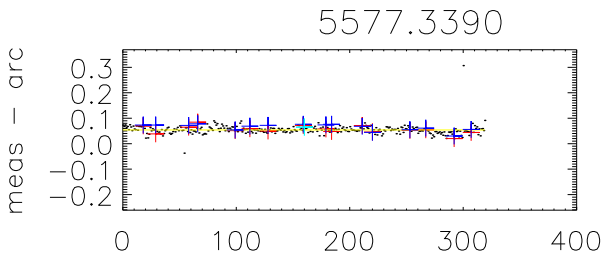

shift(pix)=−0.126
err(pix)= 0.016
oldshift(pix)=−0.112
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

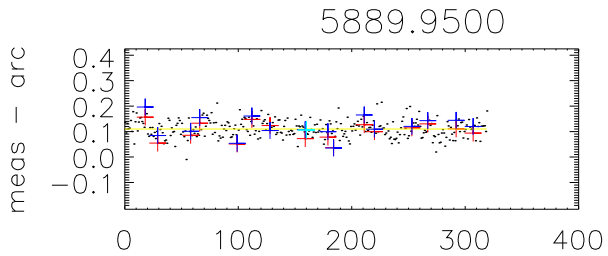

shift(pix)=−0.017
err(pix)= 0.011
oldshift(pix)= 0.027
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

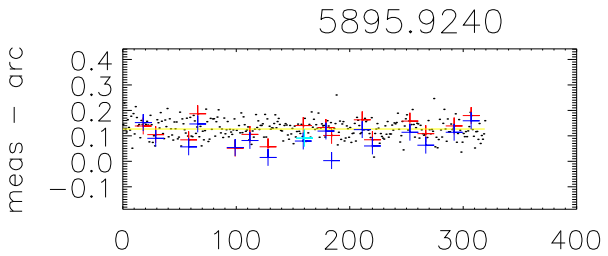

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

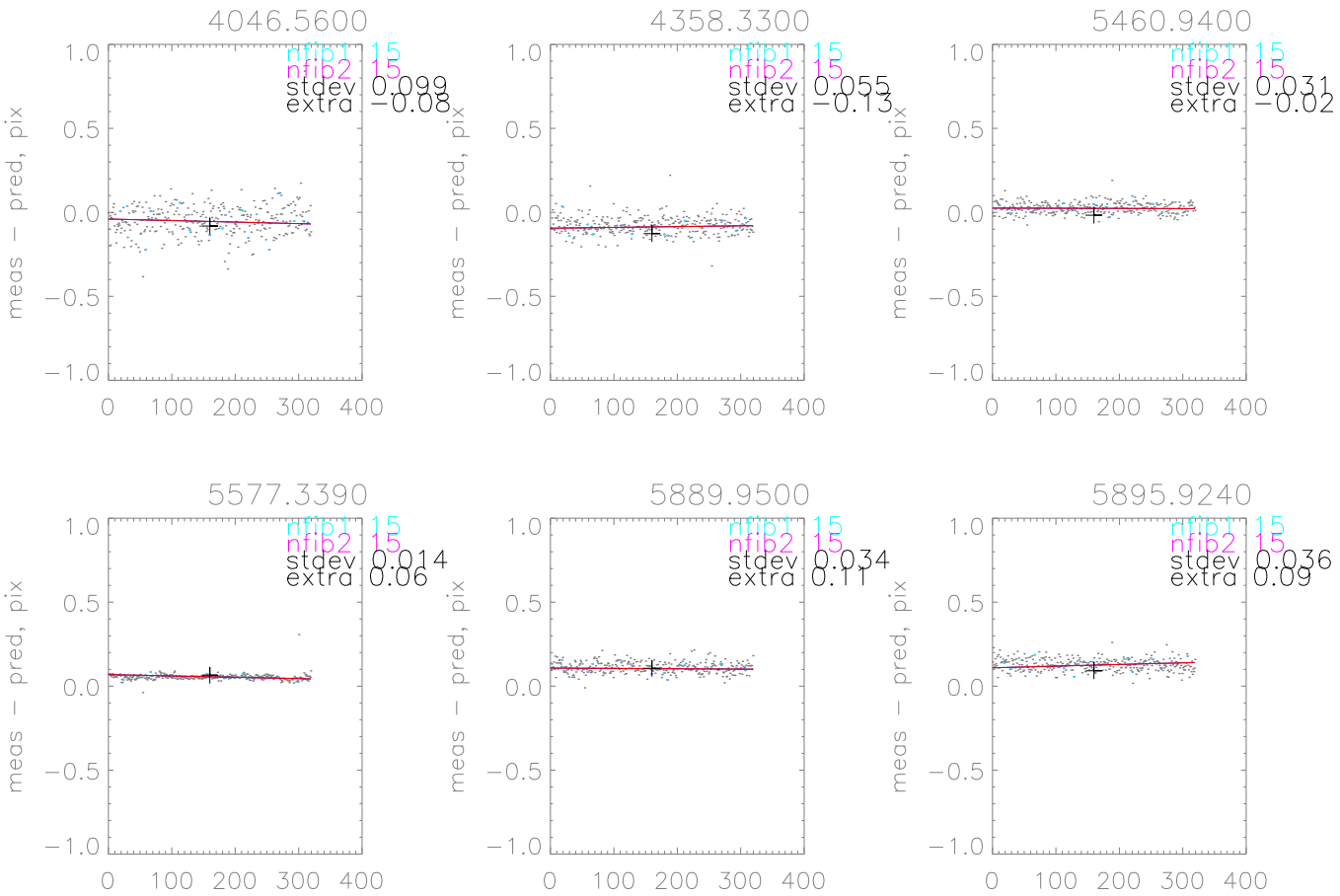

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

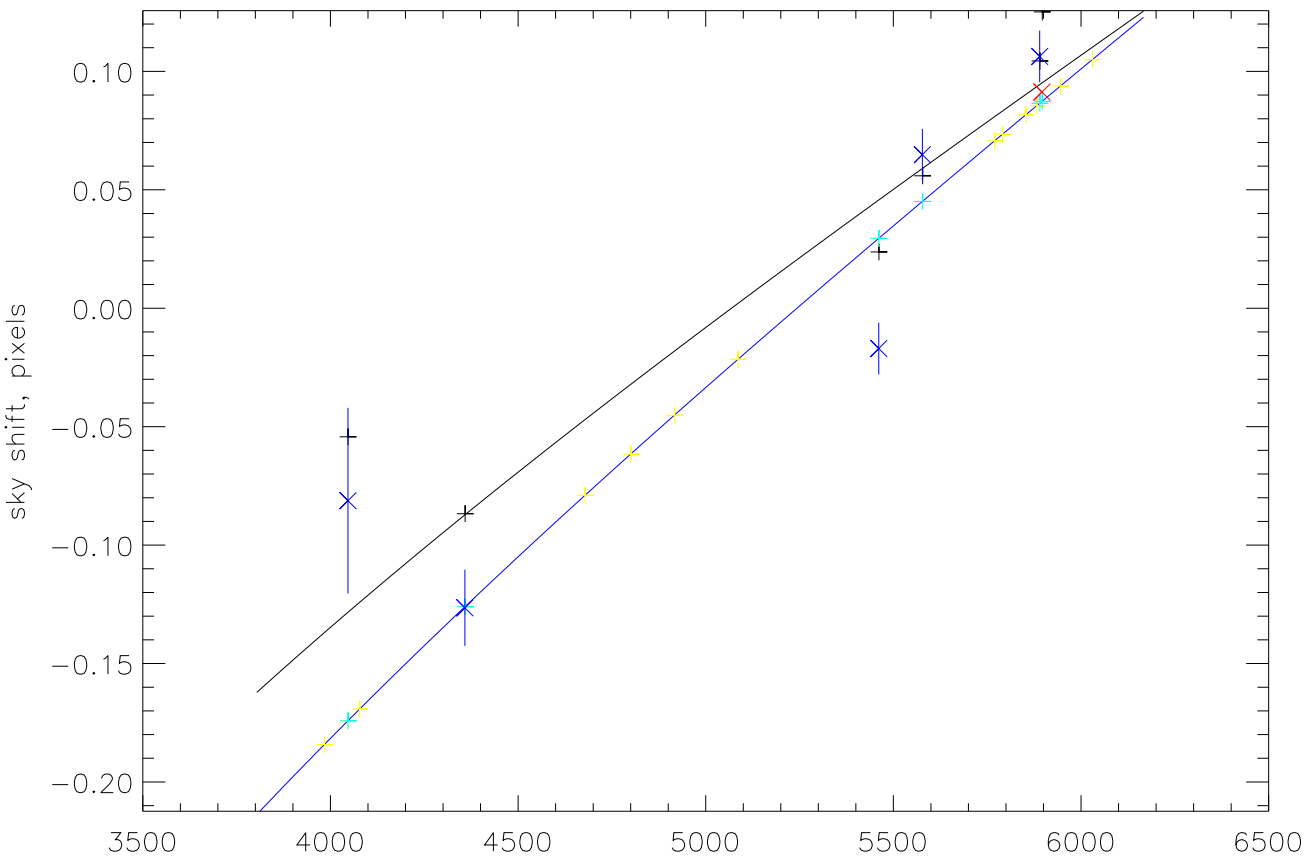

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

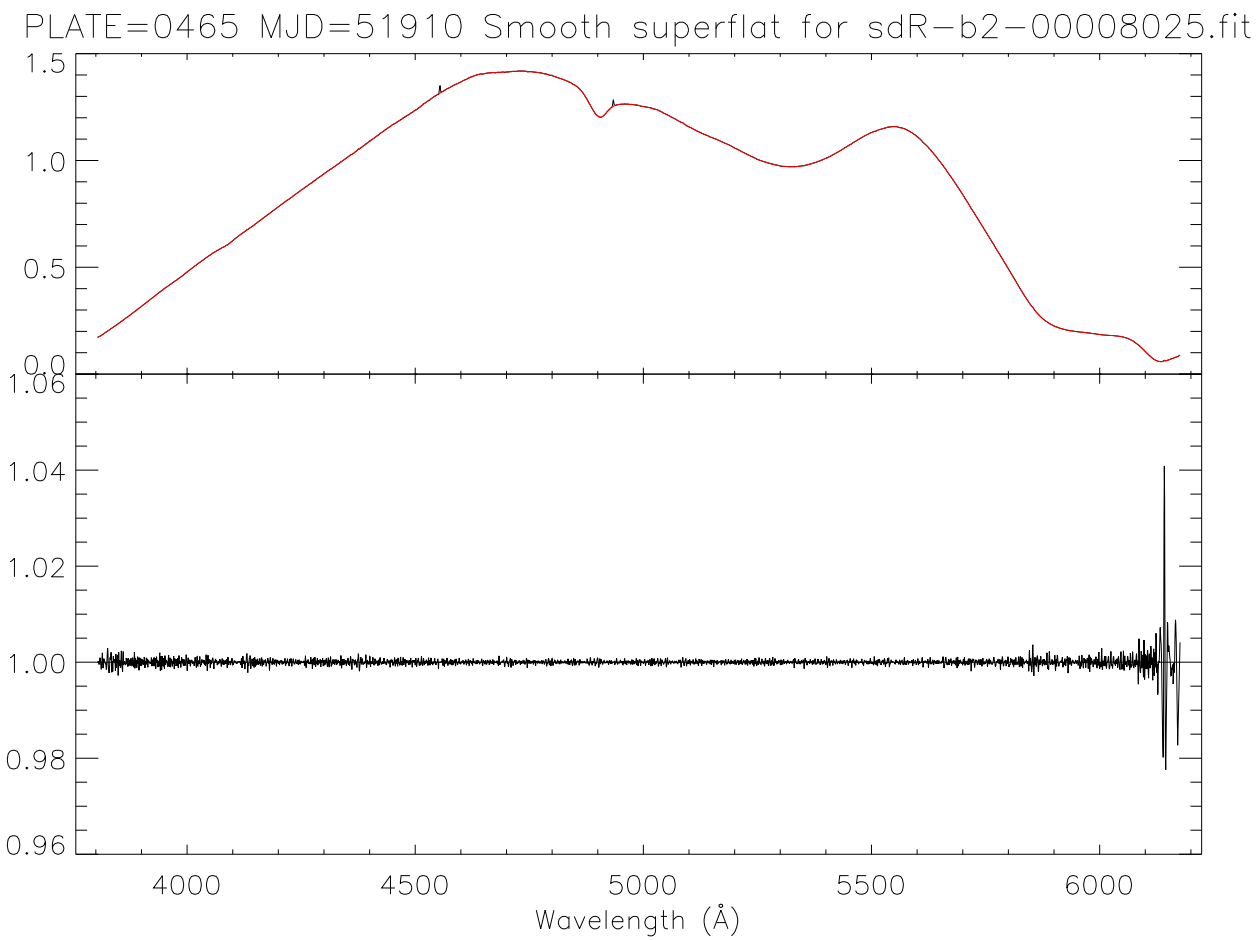

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

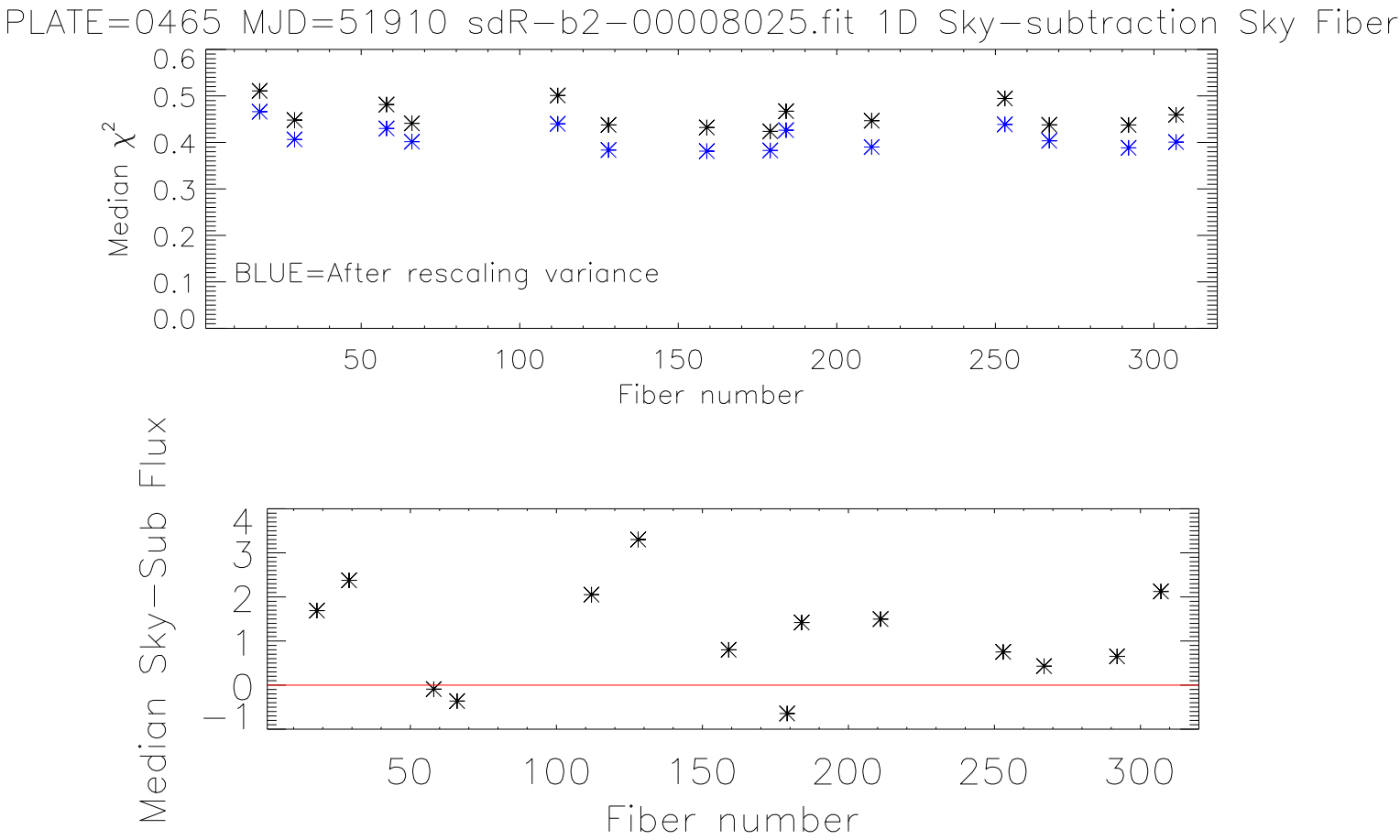

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

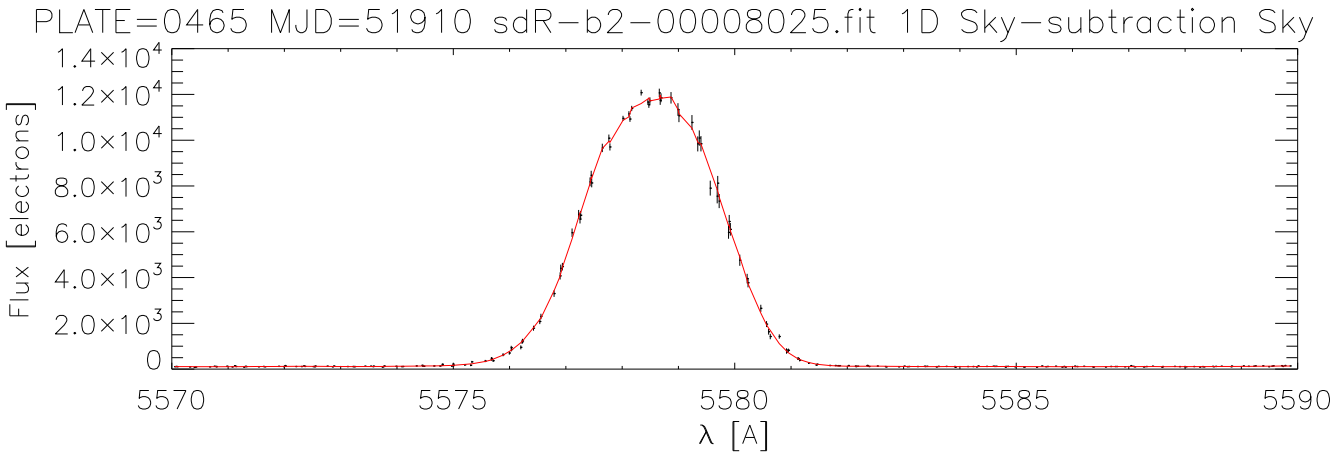

4046.5600
nfib1 15
nfib2 15
stdev 0.099
extra −0.08
4358.3300
nfib1 15
nfib2 15
stdev 0.055
extra −0.13
5460.9400
nfib1 15
nfib2 15
stdev 0.031
extra −0.02
5577.3390
nfib1 15
nfib2 15
stdev 0.014
extra 0.06
5889.9500
nfib1 15
nfib2 15
stdev 0.034
extra 0.11
5895.9240
nfib1 15
nfib2 15
stdev 0.036
extra 0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

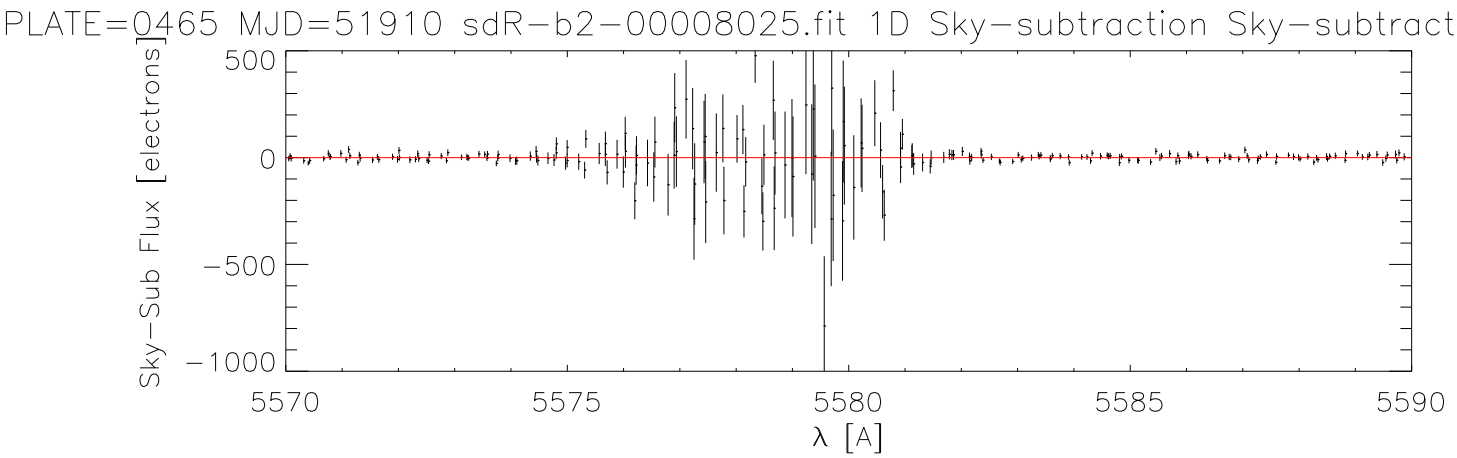

sky shift, pixels
0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
3500
4000
4500
5000
5500
6000
6500

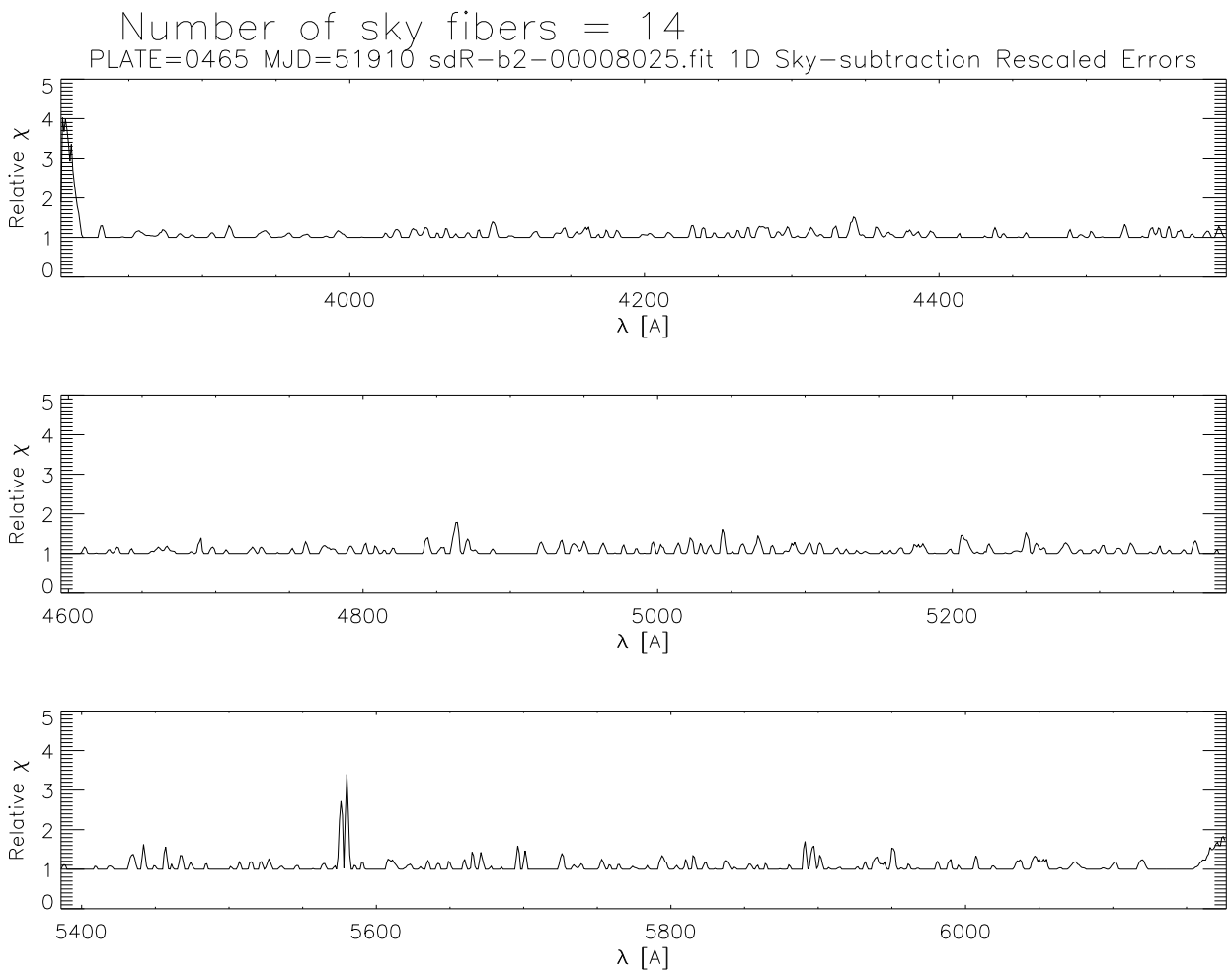
es= 0.0000

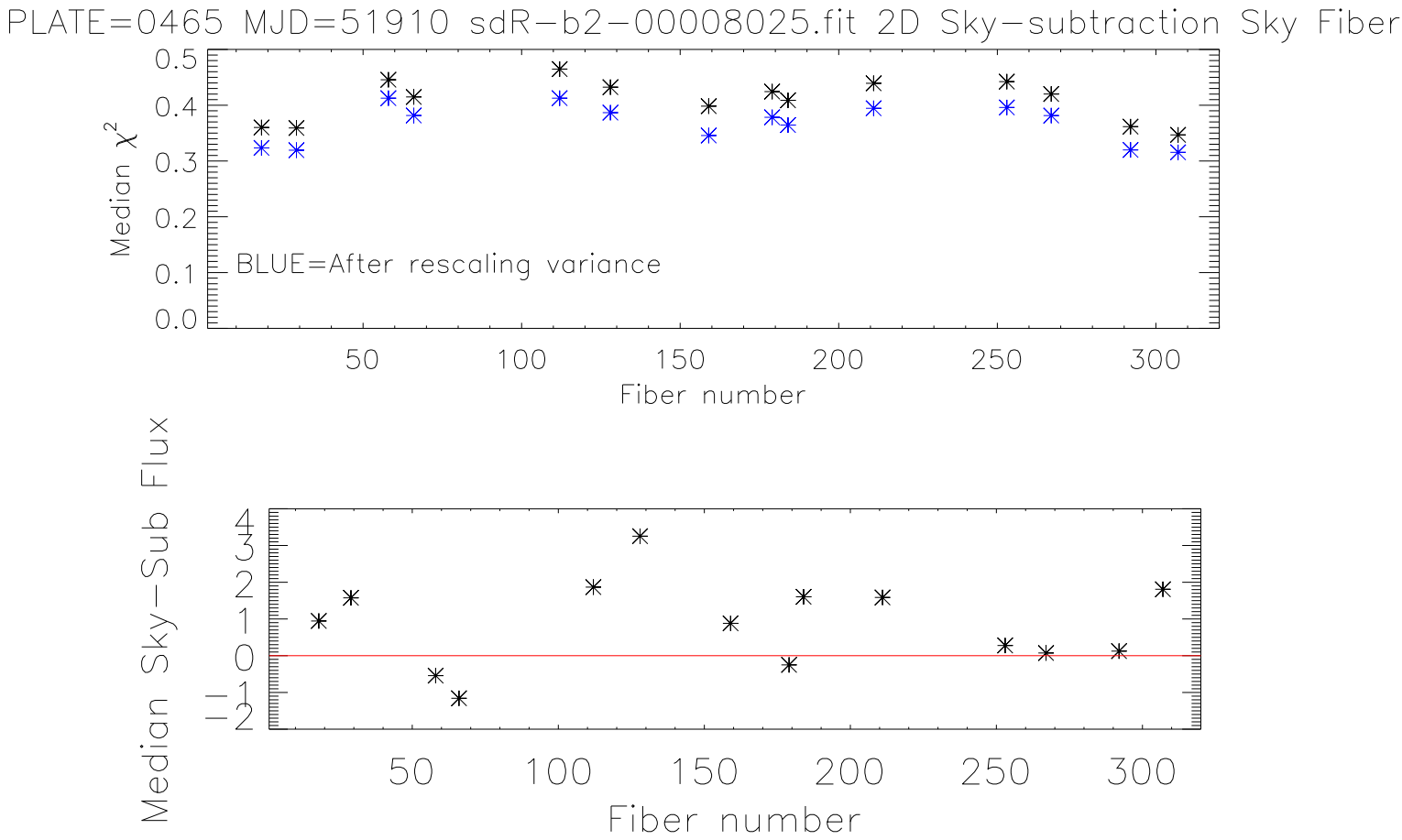

PLATE=0465 MJD=51910 Smooth superflat for sdR-b2-00008025.fit
1.5
1.0
0.5
0.0
1.06
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

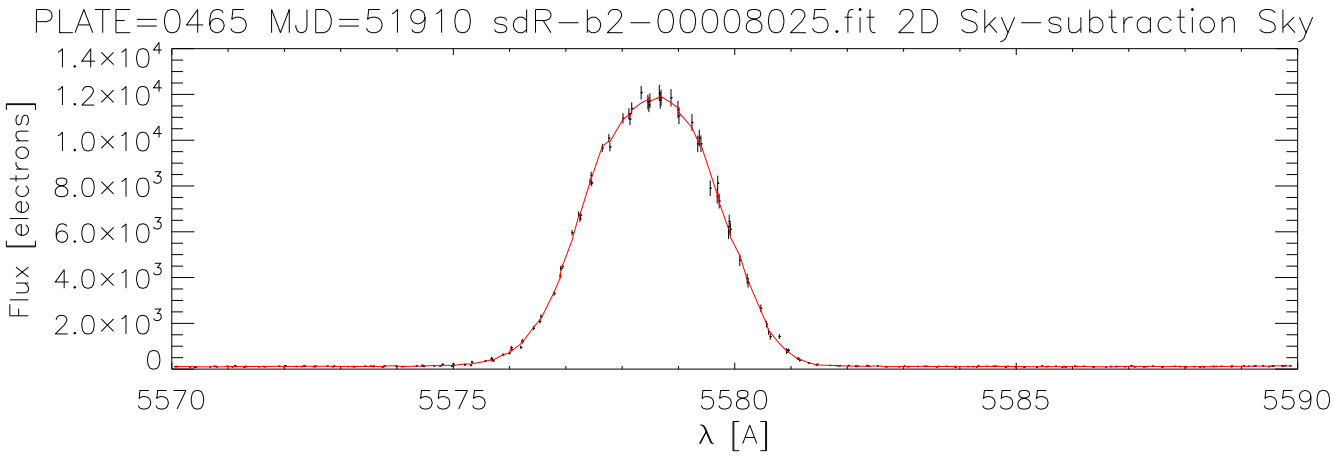

PLATE=0465 MJD=51910 sdR-b2-00008025.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

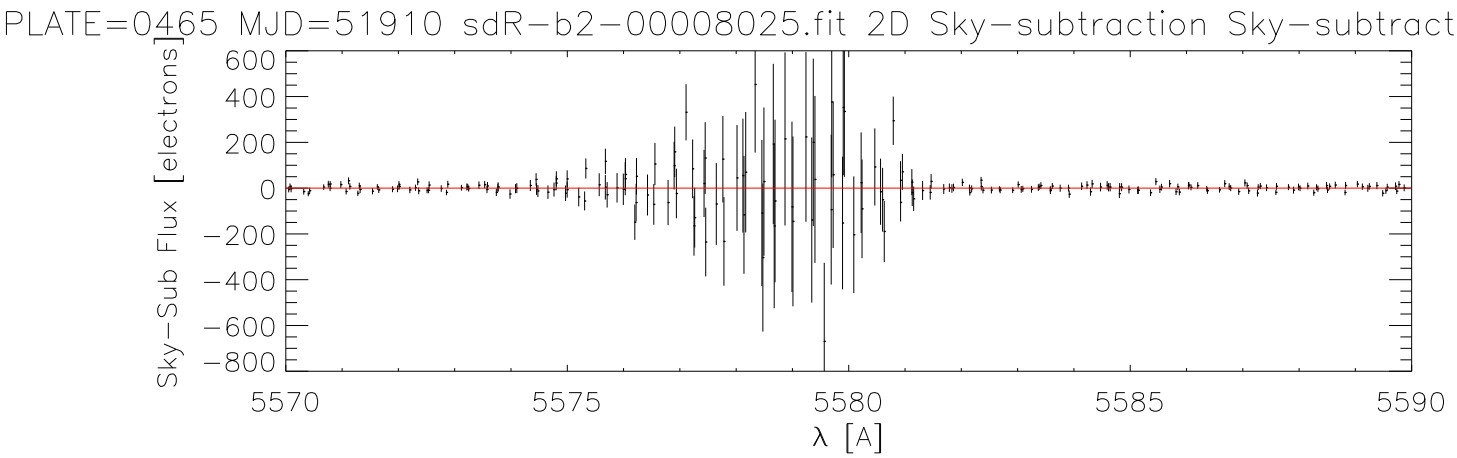

PLATE=0465 MJD=51910 sdR-b2-00008025.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.4×10^4
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

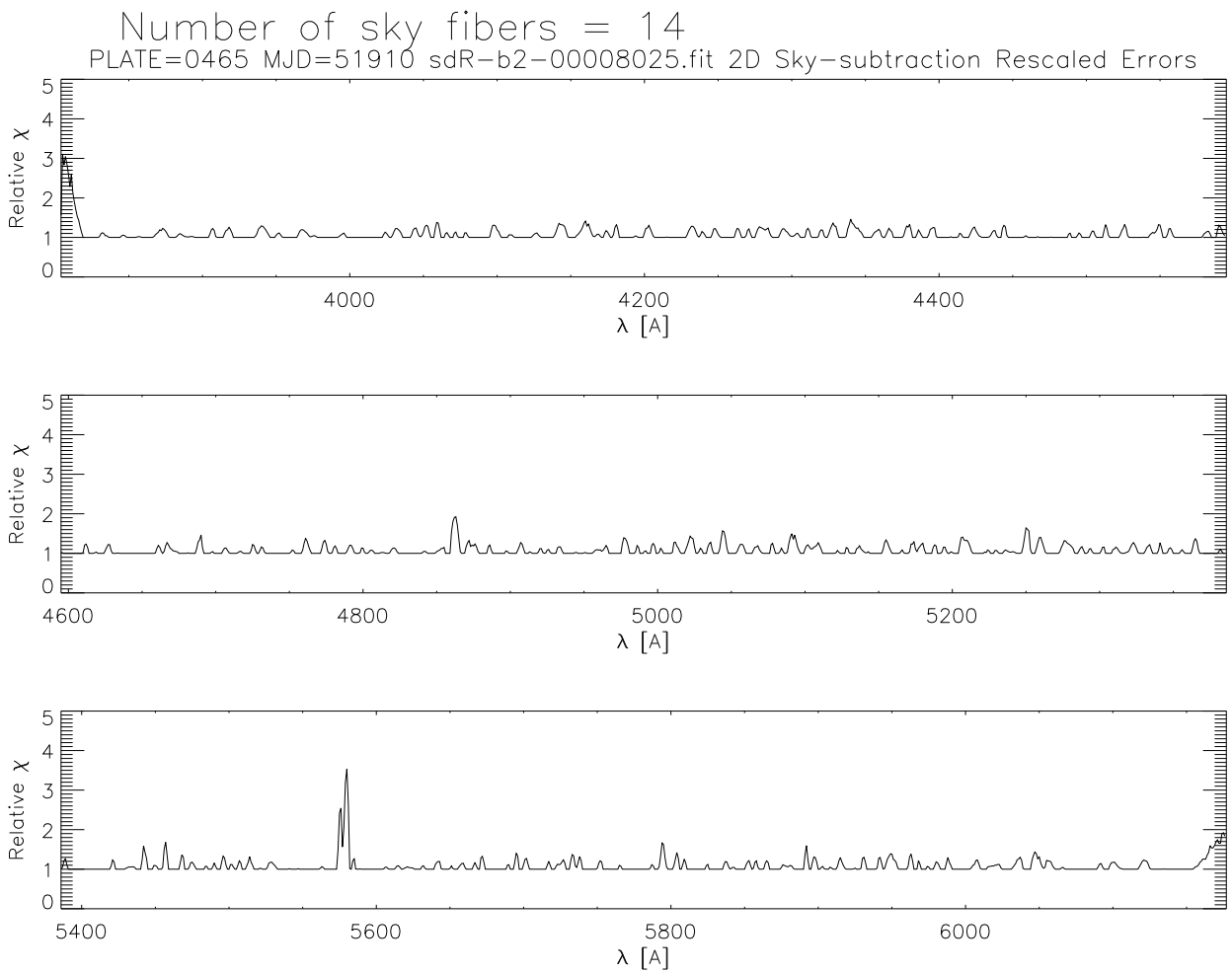

PLATE=0465 MJD=51910 sdR-b2-00008025.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

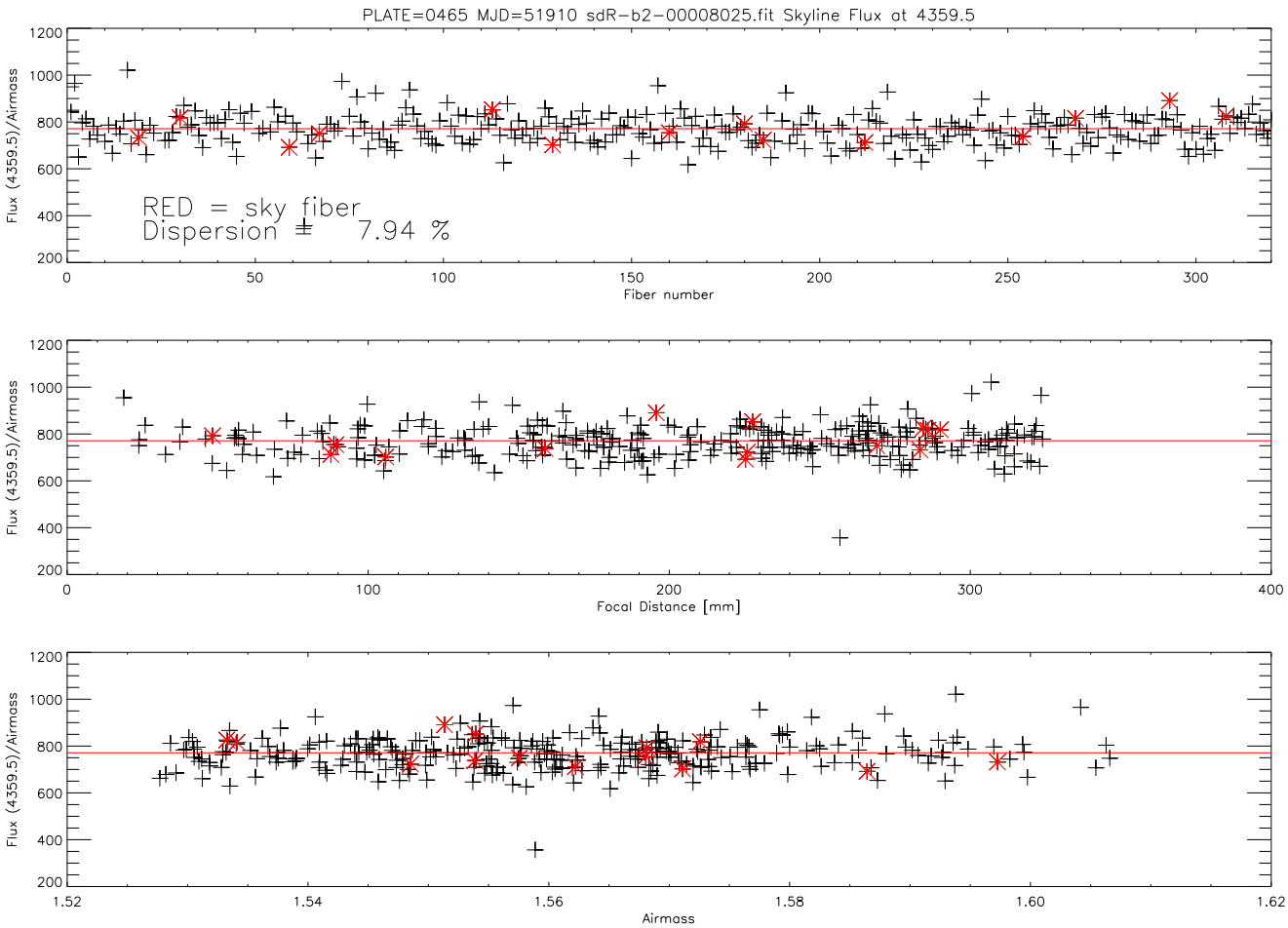

Number of sky fibers = 14
PLATE=0465 MJD=51910 sdR-b2-00008025.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

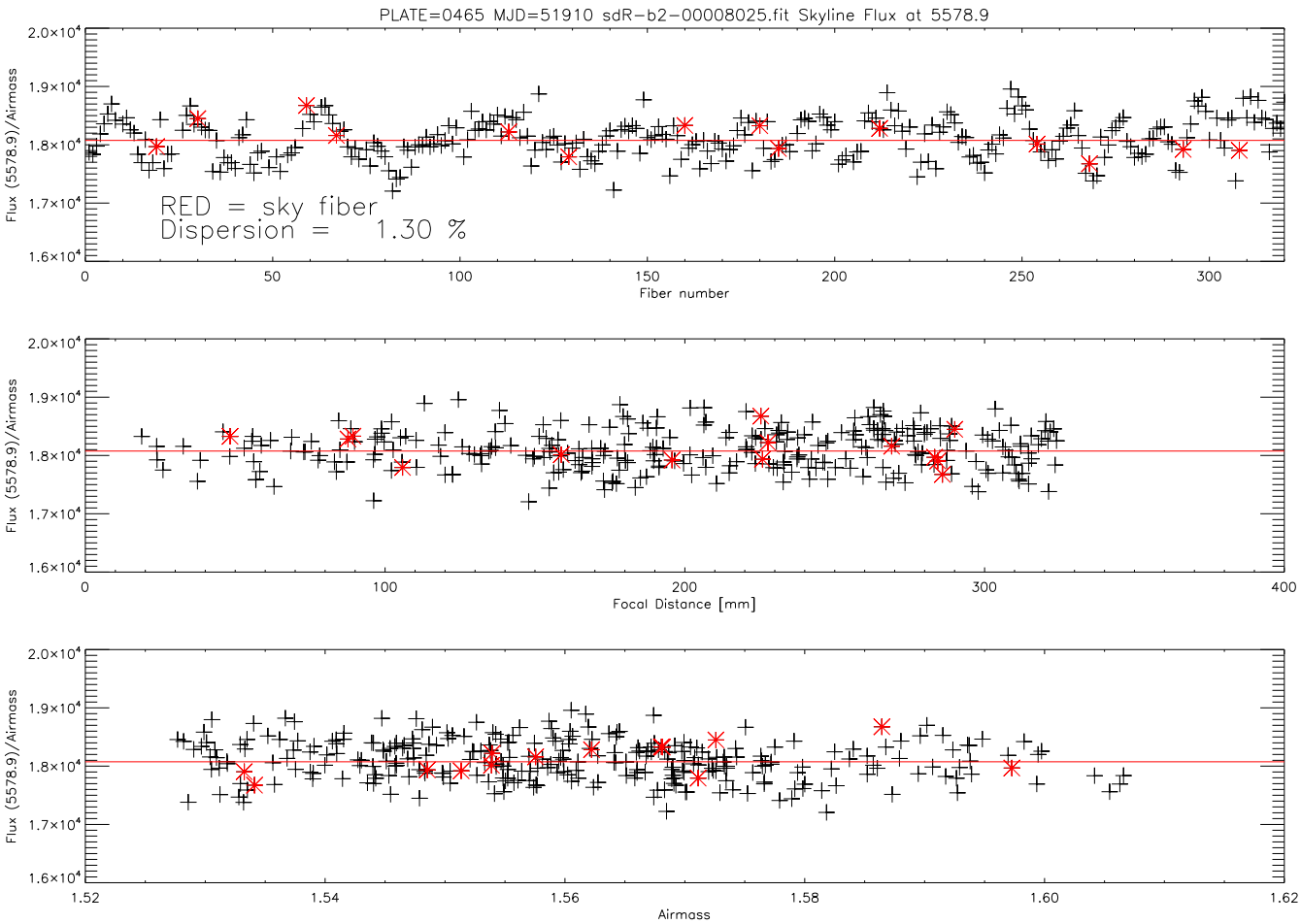

PLATE=0465 MJD=51910 sdR-b2-00008025.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

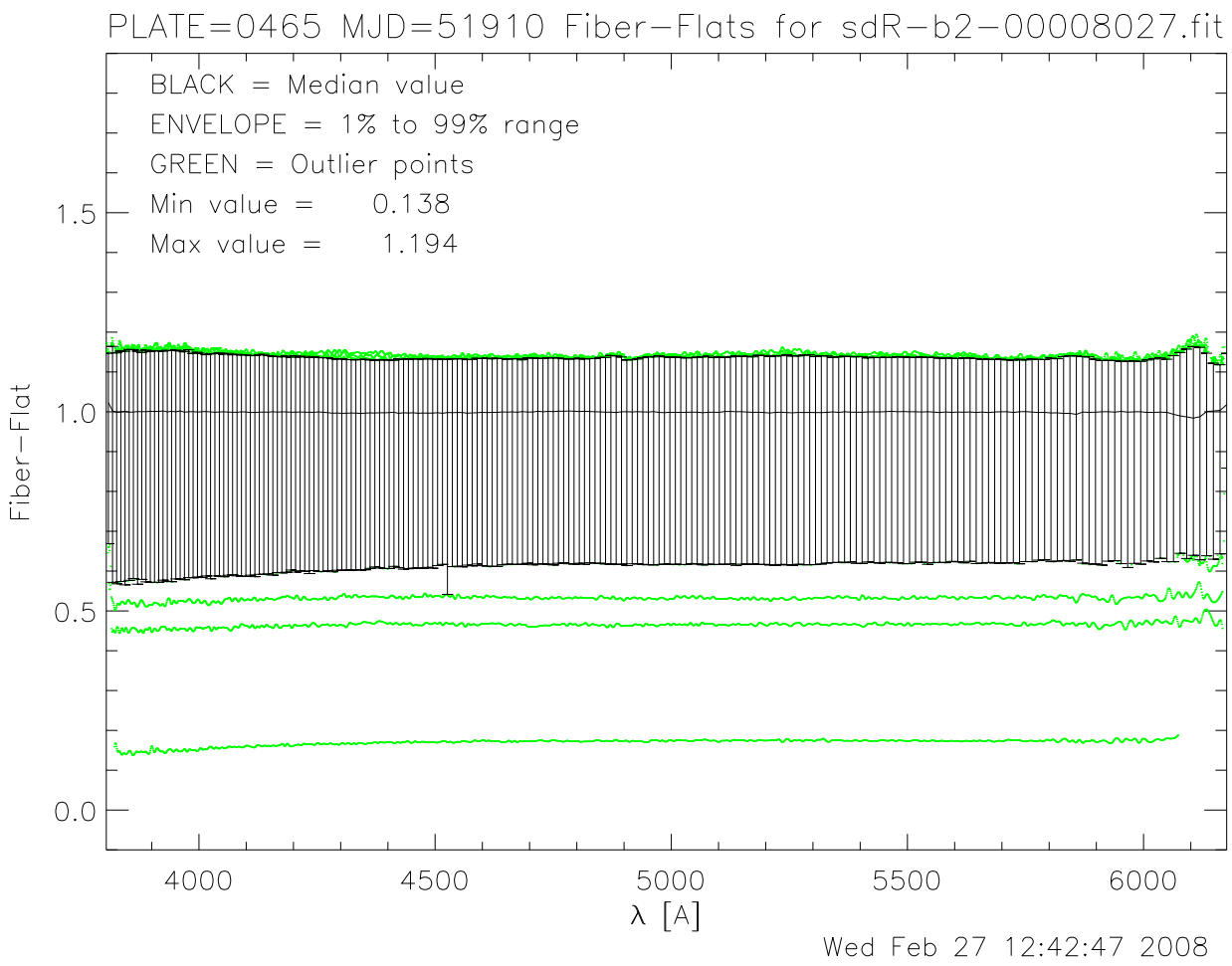

PLATE=0465 MJD=51910 sdR-b2-00008025.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.4×10^4
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

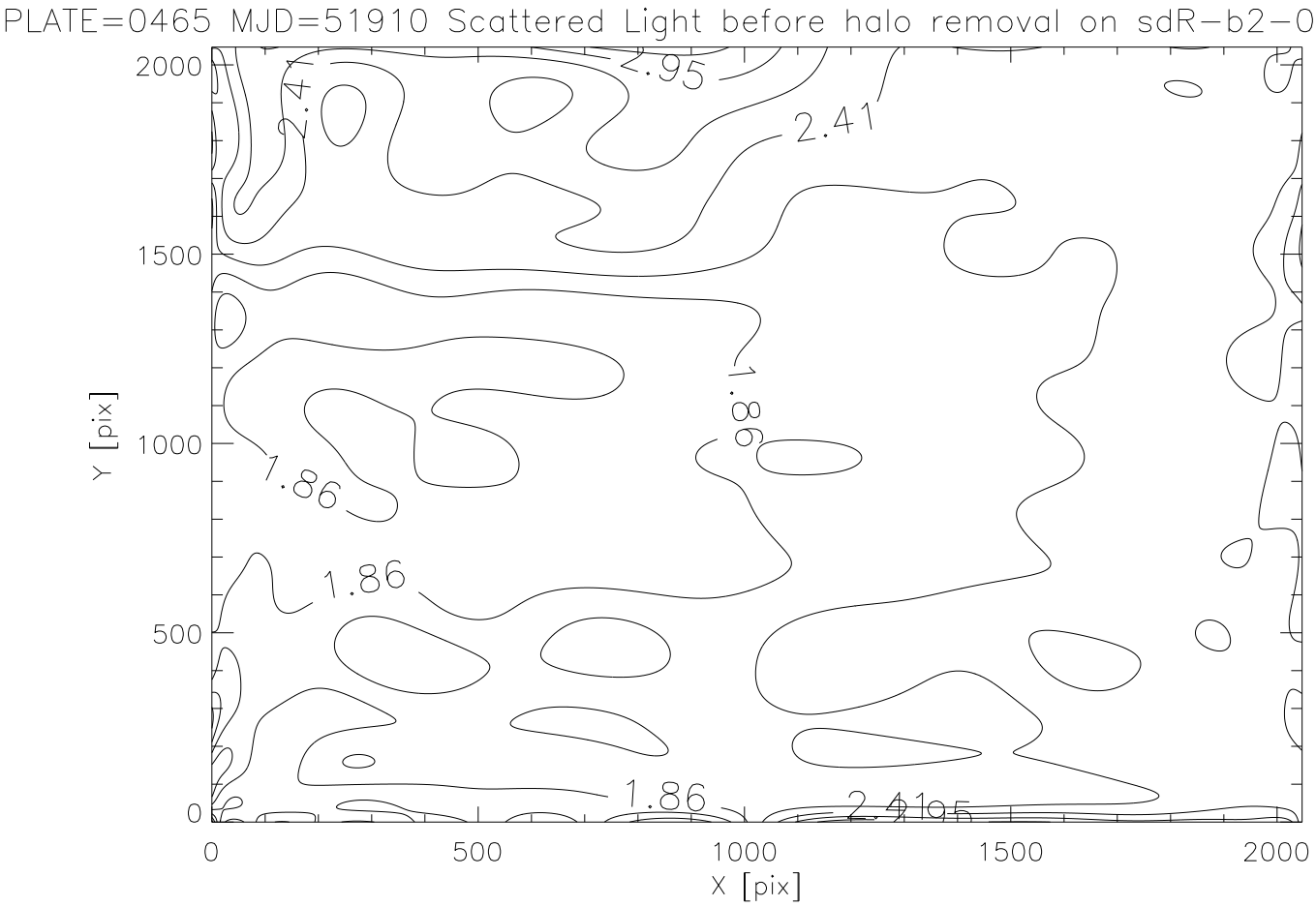

PLATE=0465 MJD=51910 sdR-b2-00008025.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
−600
−800
5570
5575
5580
5585
5590
λ [A]

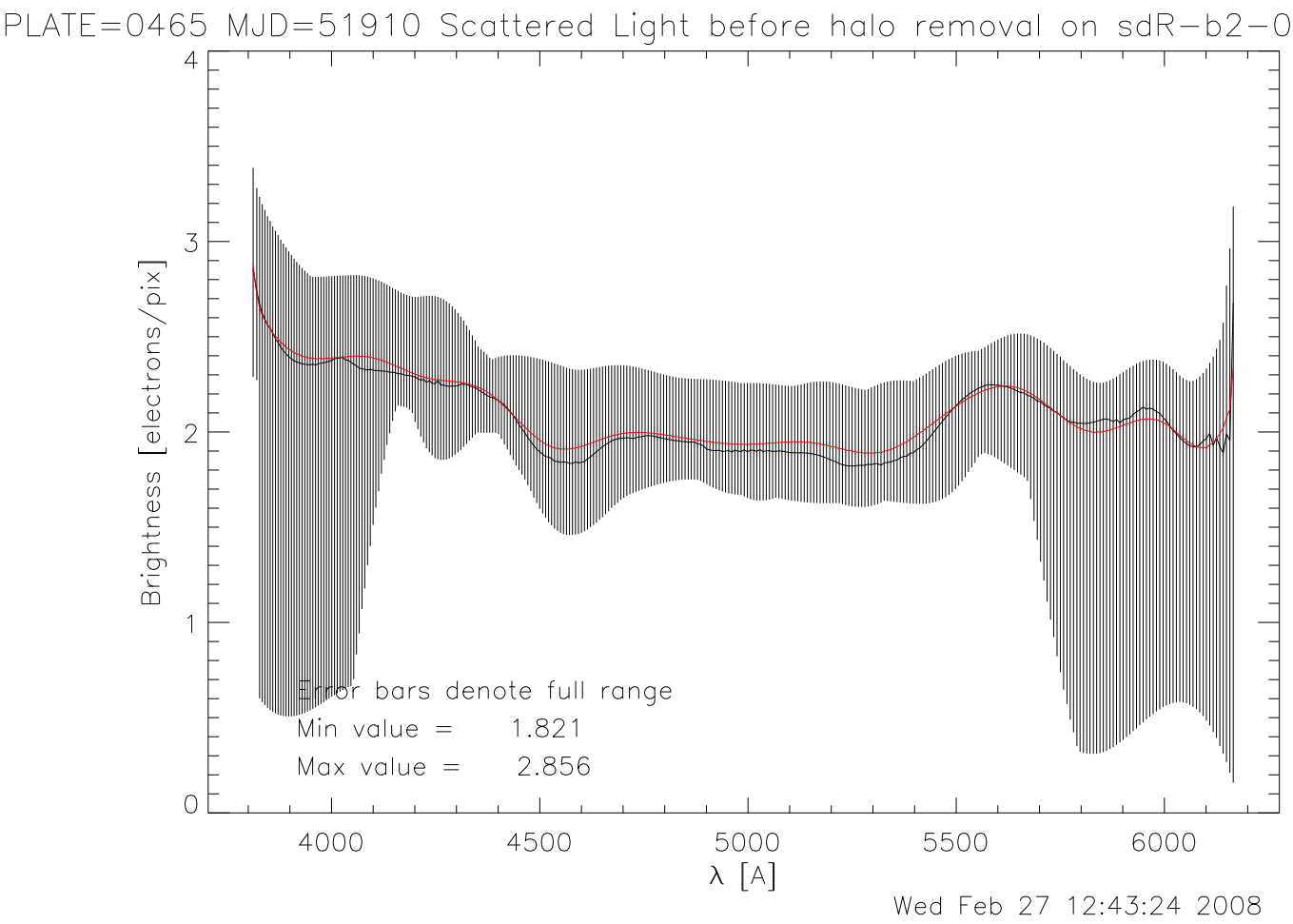

Number of sky fibers = 14
PLATE=0465 MJD=51910 sdR-b2-00008025.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

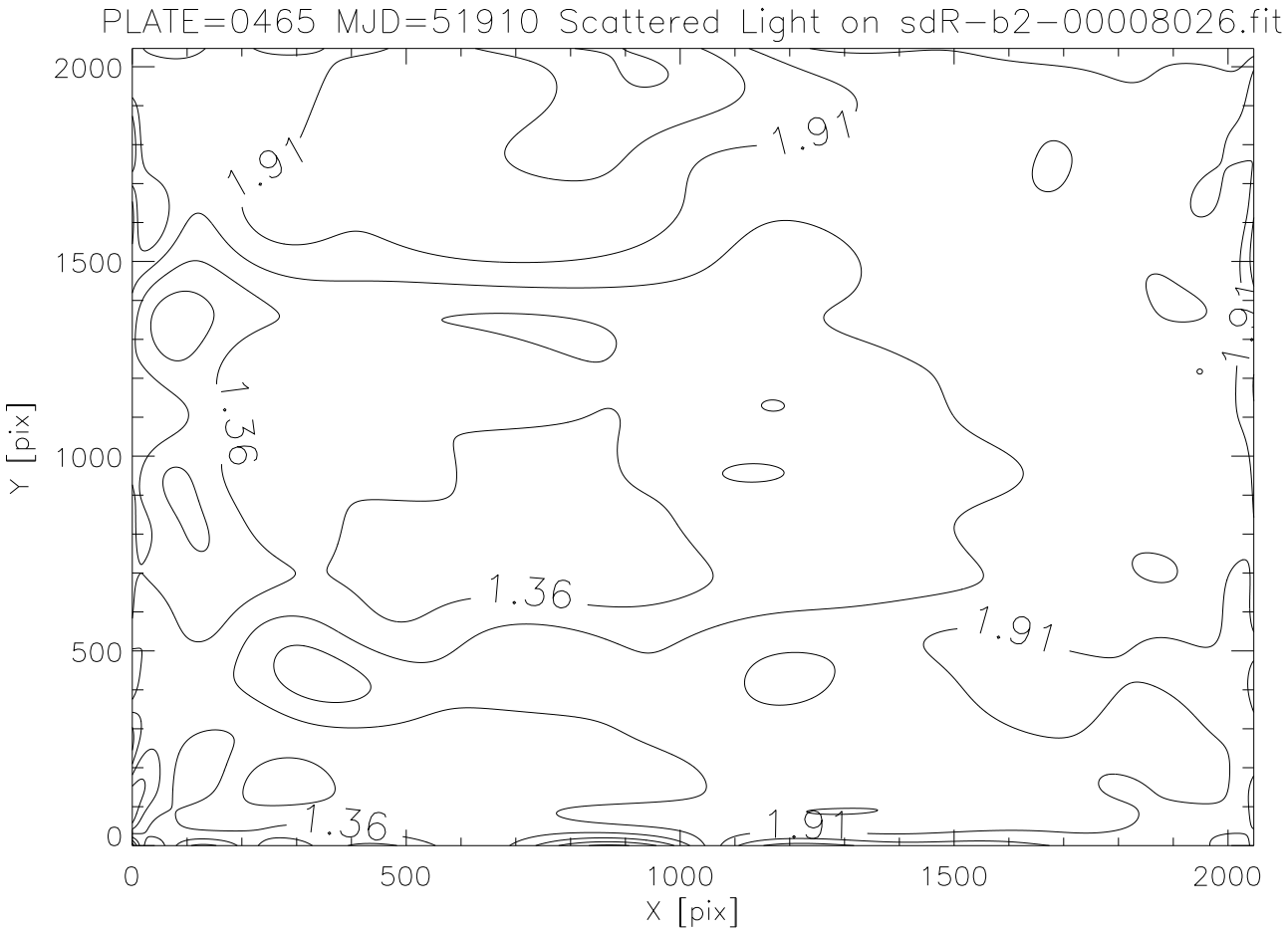

PLATE=0465 MJD=51910 sdR-b2-00008025.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 7.94 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

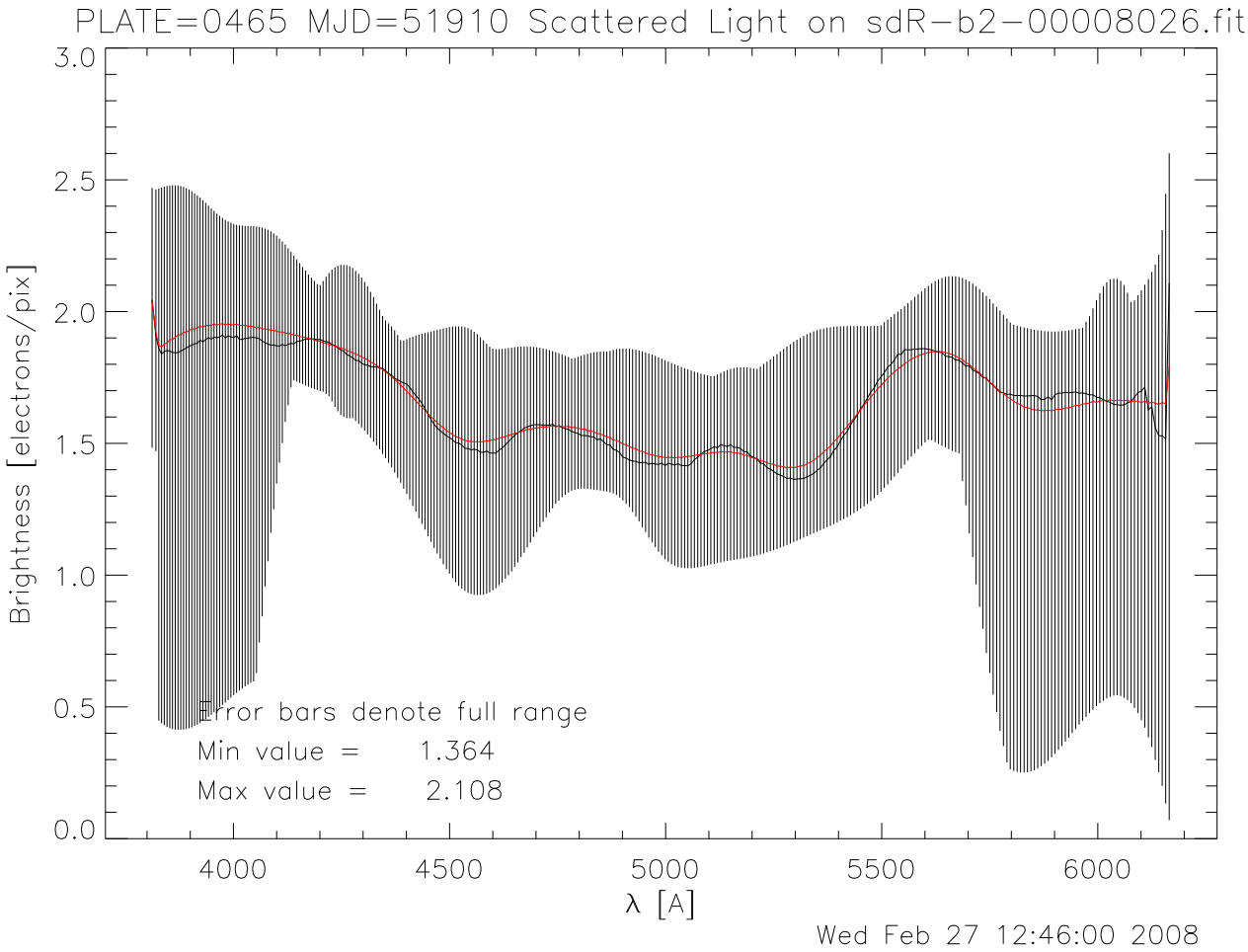

PLATE=0465 MJD=51910 sdR-b2-00008025.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
2.0×10^4
1.9×10^4
1.8×10^4
1.7×10^4
1.6×10^4
RED = sky fiber
Dispersion = 1.30 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
2.0×10^4
1.9×10^4
1.8×10^4
1.7×10^4
1.6×10^4
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
2.0×10^4
1.9×10^4
1.8×10^4
1.7×10^4
1.6×10^4
1.52
1.54
1.56
1.58
1.60
1.62
Airmass

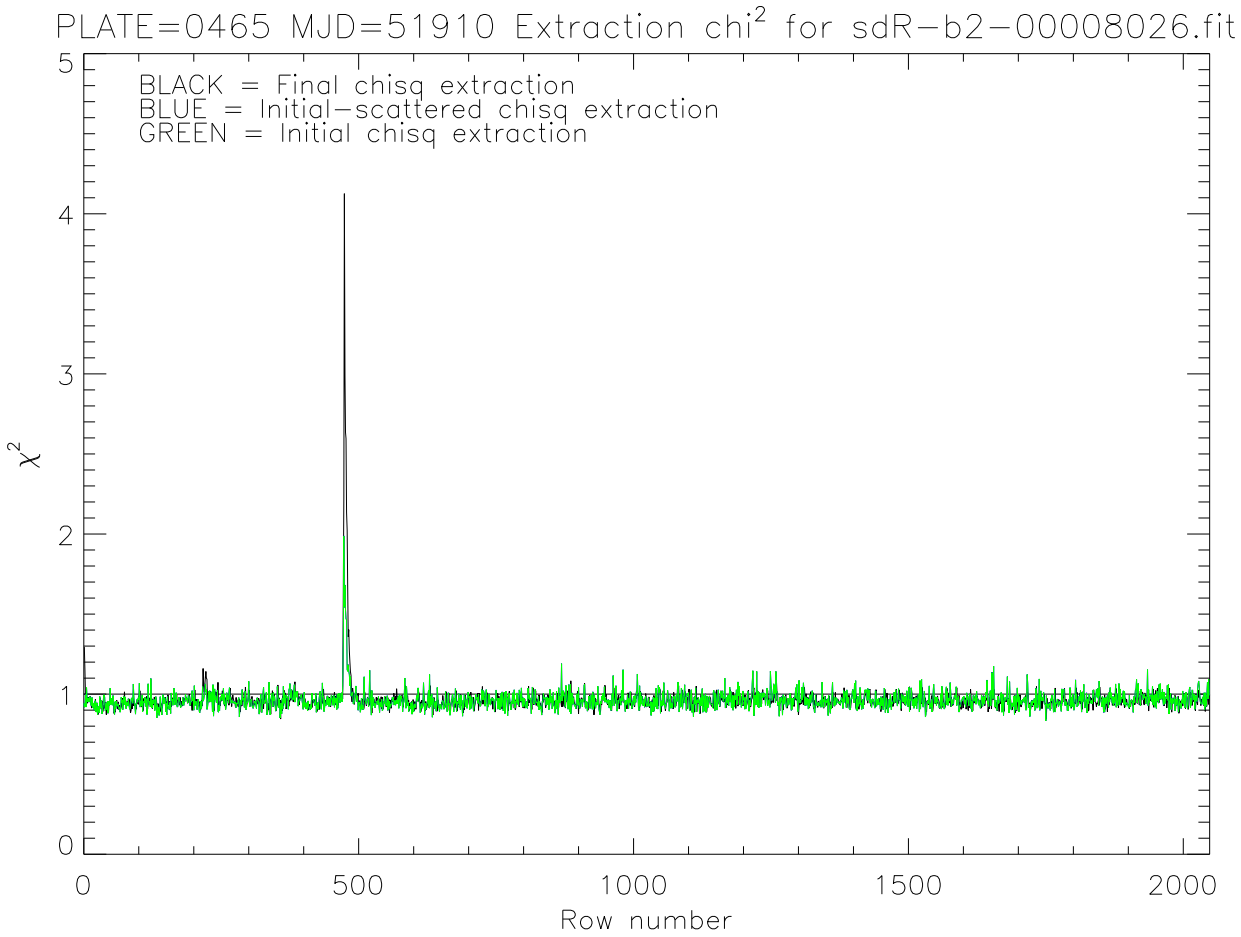

PLATE=0465 MJD=51910 Fiber-Flats for sdR-b2-00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.138
Max value = 1.194
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:42:47 2008

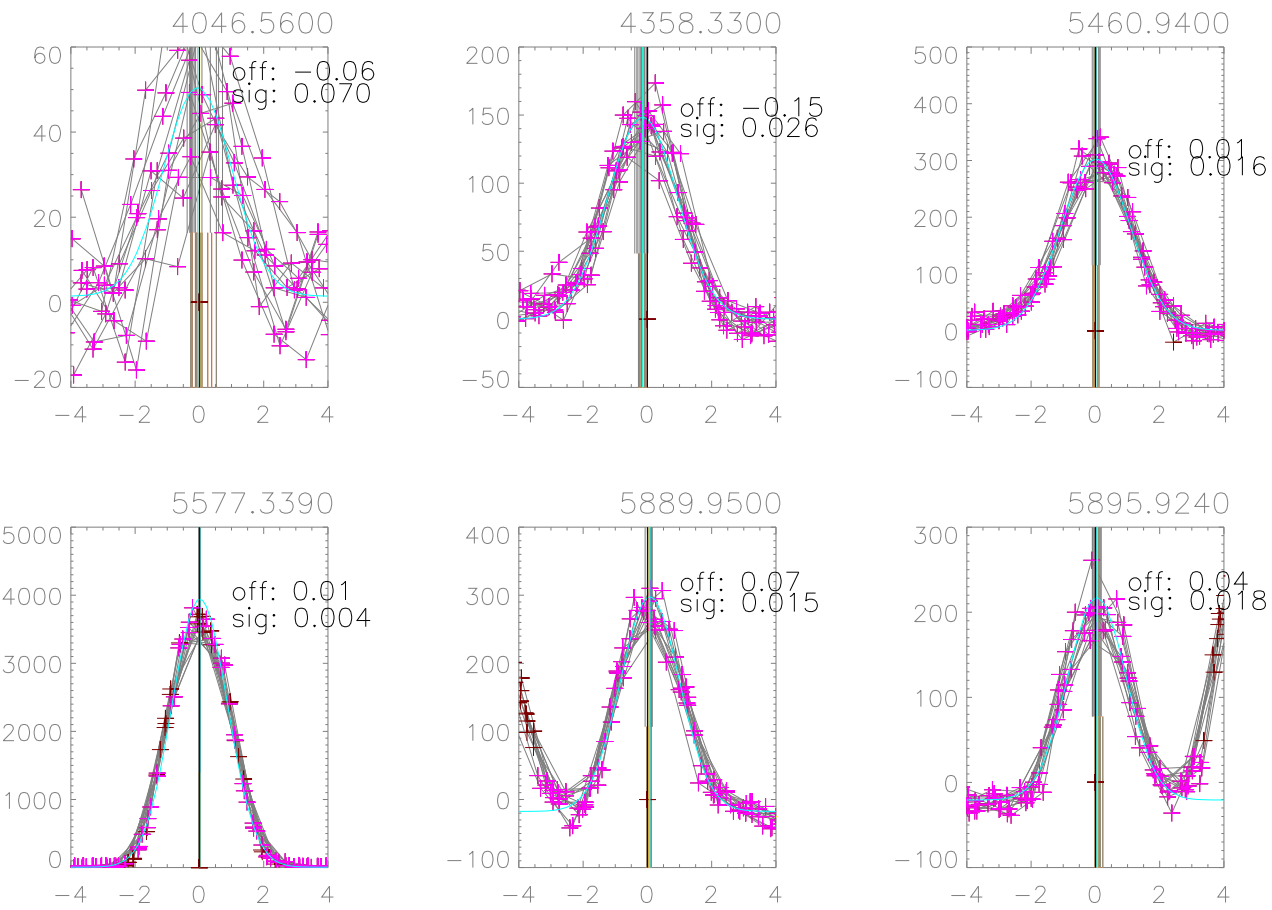

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-b2-00008026.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
2.95
2.41
1.86
1.86
1.86
2.41

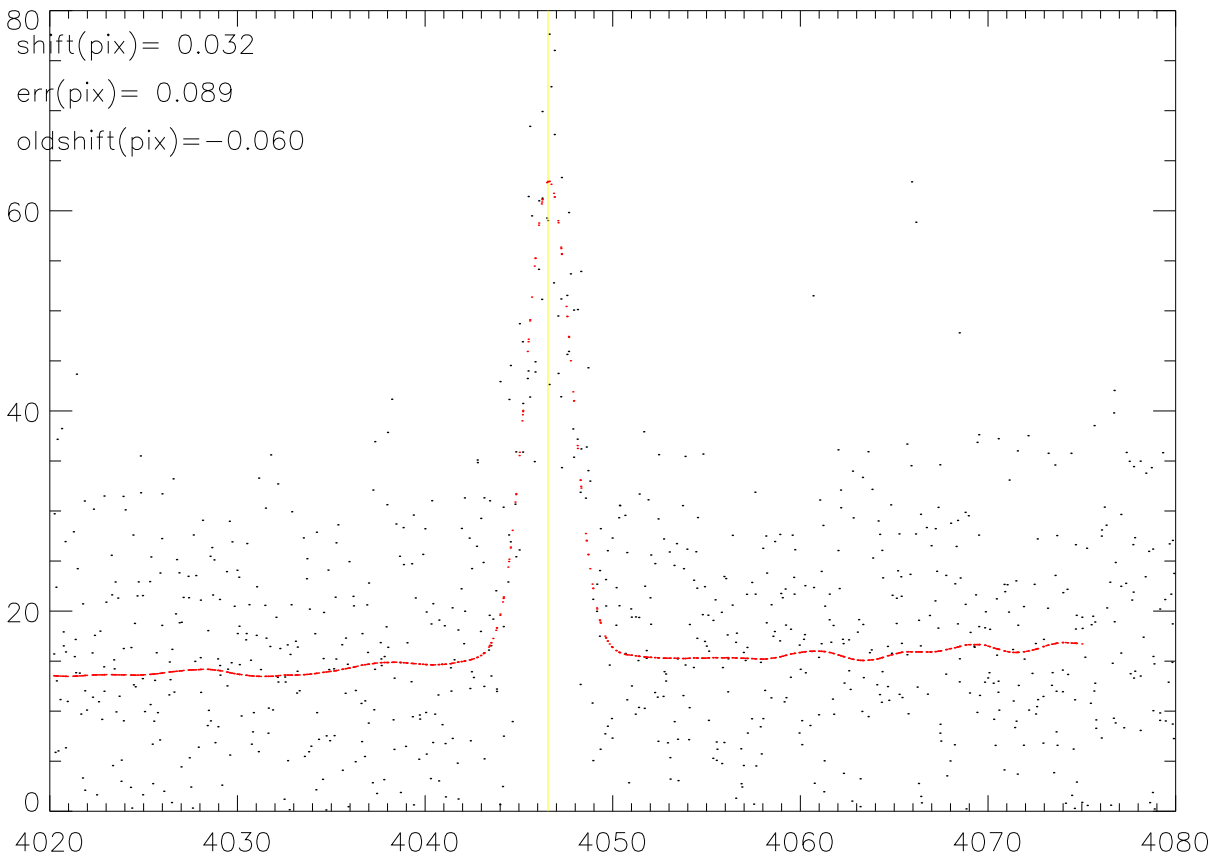

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR−b2−00008026.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.821
Max value = 2.856
Wed Feb 27 12:43:24 2008

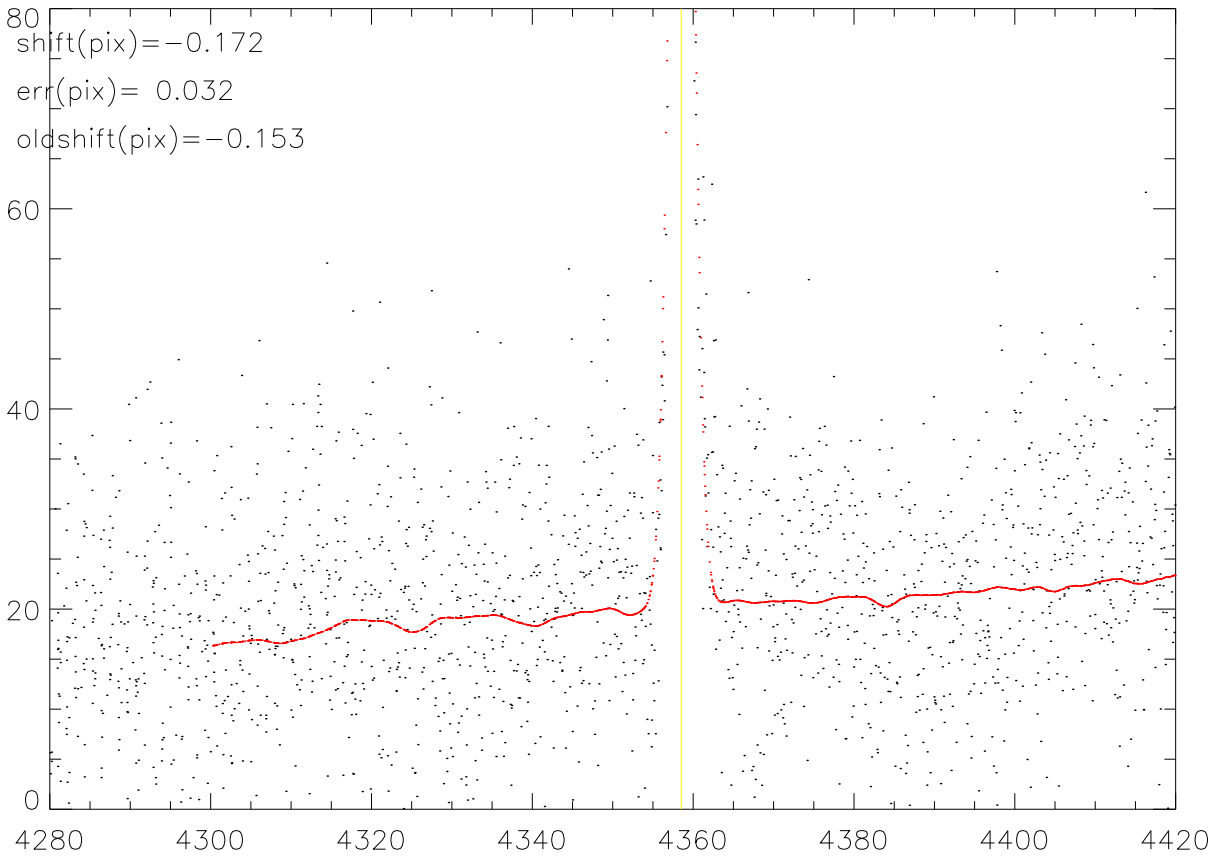

PLATE=0465 MJD=51910 Scattered Light on sdR-b2-00008026.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
1.91
1.36
0

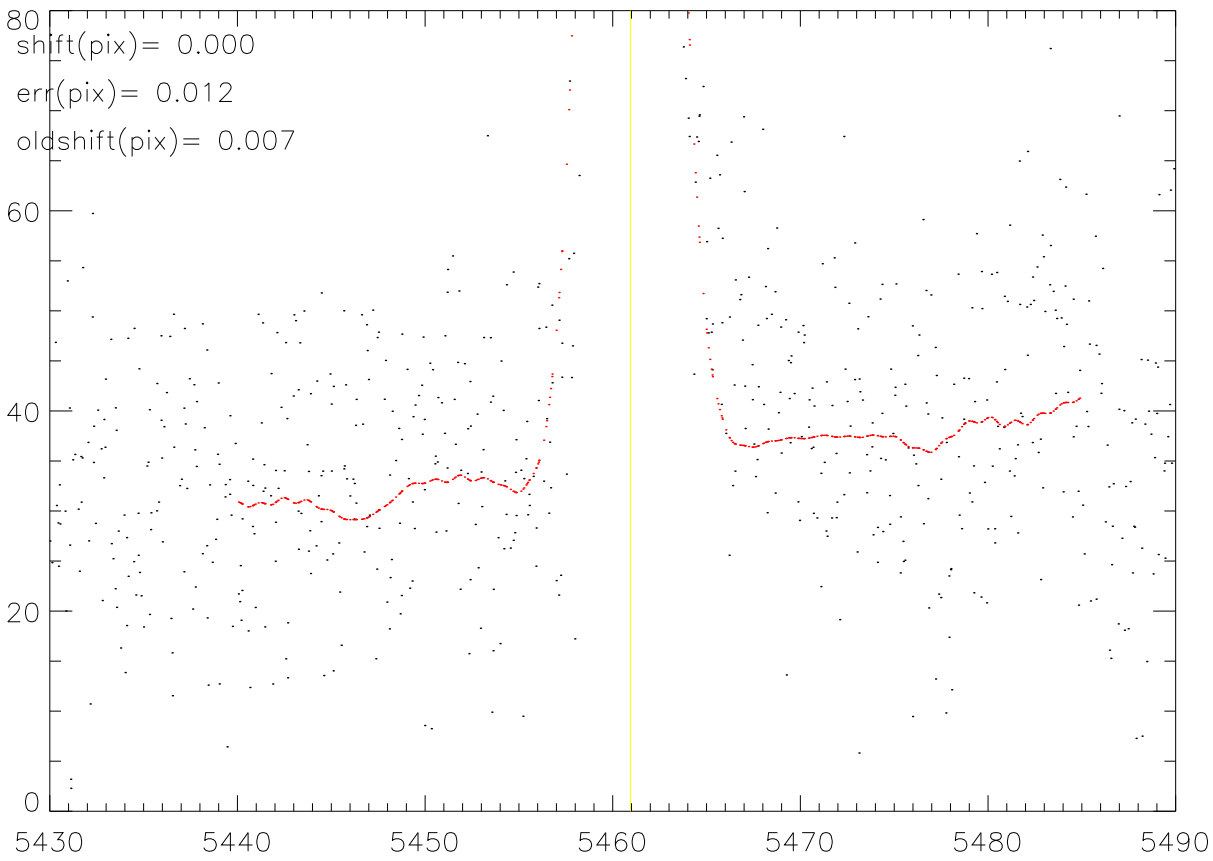

PLATE=0465 MJD=51910 Scattered Light on sdR-b2-00008026.fit
Brightness [electrons/pix]
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 1.364
Max value = 2.108
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 12:46:00 2008

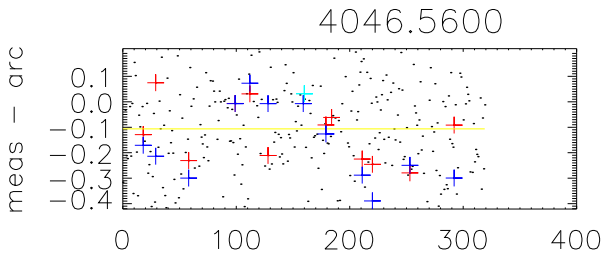

PLATE=0465 MJD=51910 Extraction chi^2 for sdR-b2-00008026.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

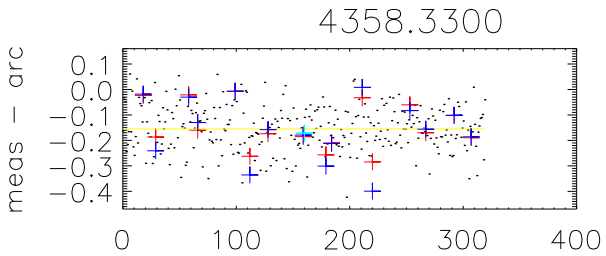

4046.5600
off: −0.06
sig: 0.070
4358.3300
off: −0.15
sig: 0.026
5460.9400
off: 0.01
sig: 0.016
5577.3390
off: 0.01
sig: 0.004
5889.9500
off: 0.07
sig: 0.015
5895.9240
off: 0.04
sig: 0.018

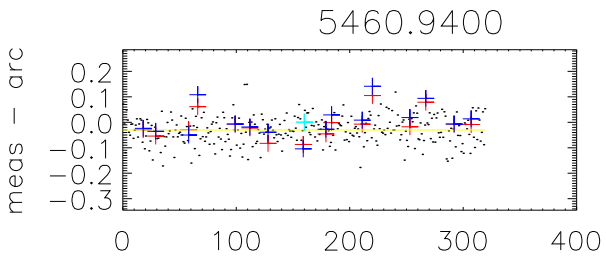

shift(pix)= 0.032
err(pix)= 0.089
oldshift(pix)=-0.060
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

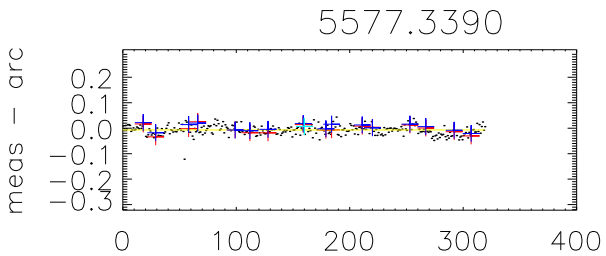

shift(pix)=−0.172
err(pix)= 0.032
oldshift(pix)=−0.153
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

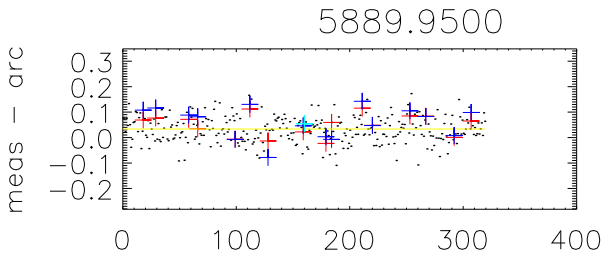

shift(pix)= 0.000
err(pix)= 0.012
oldshift(pix)= 0.007
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

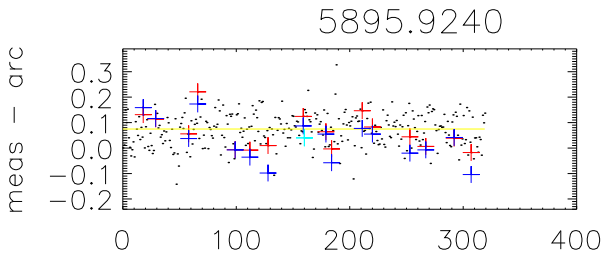

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

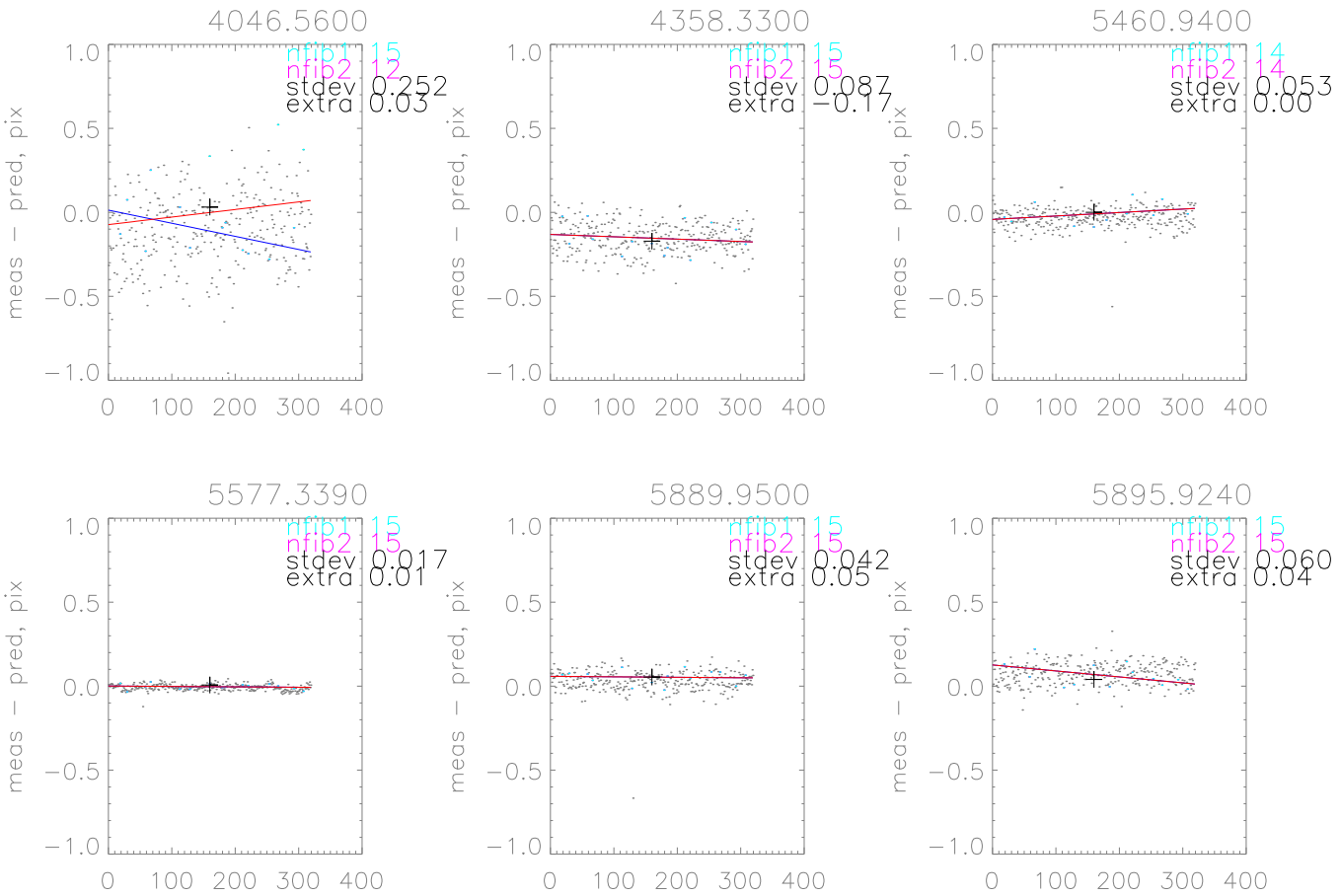

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

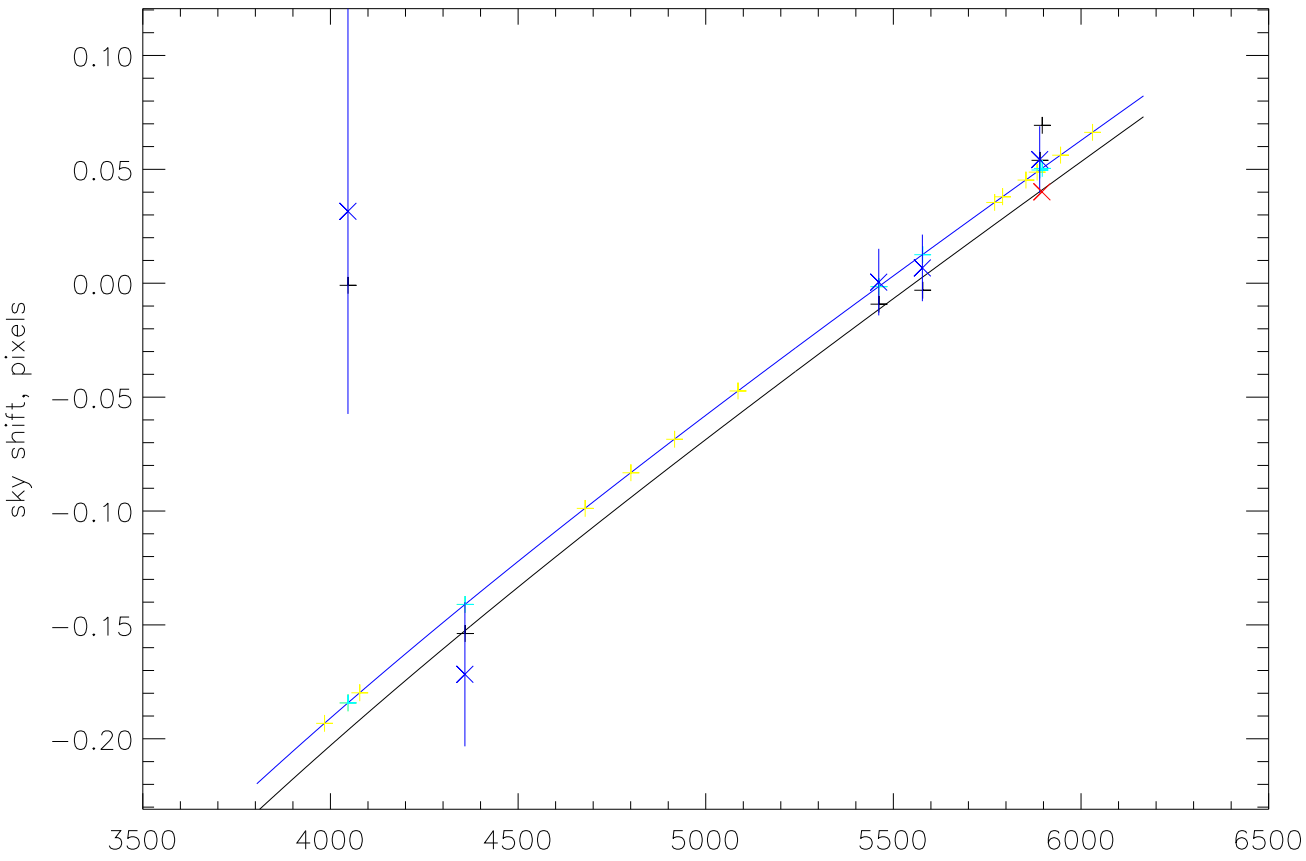

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

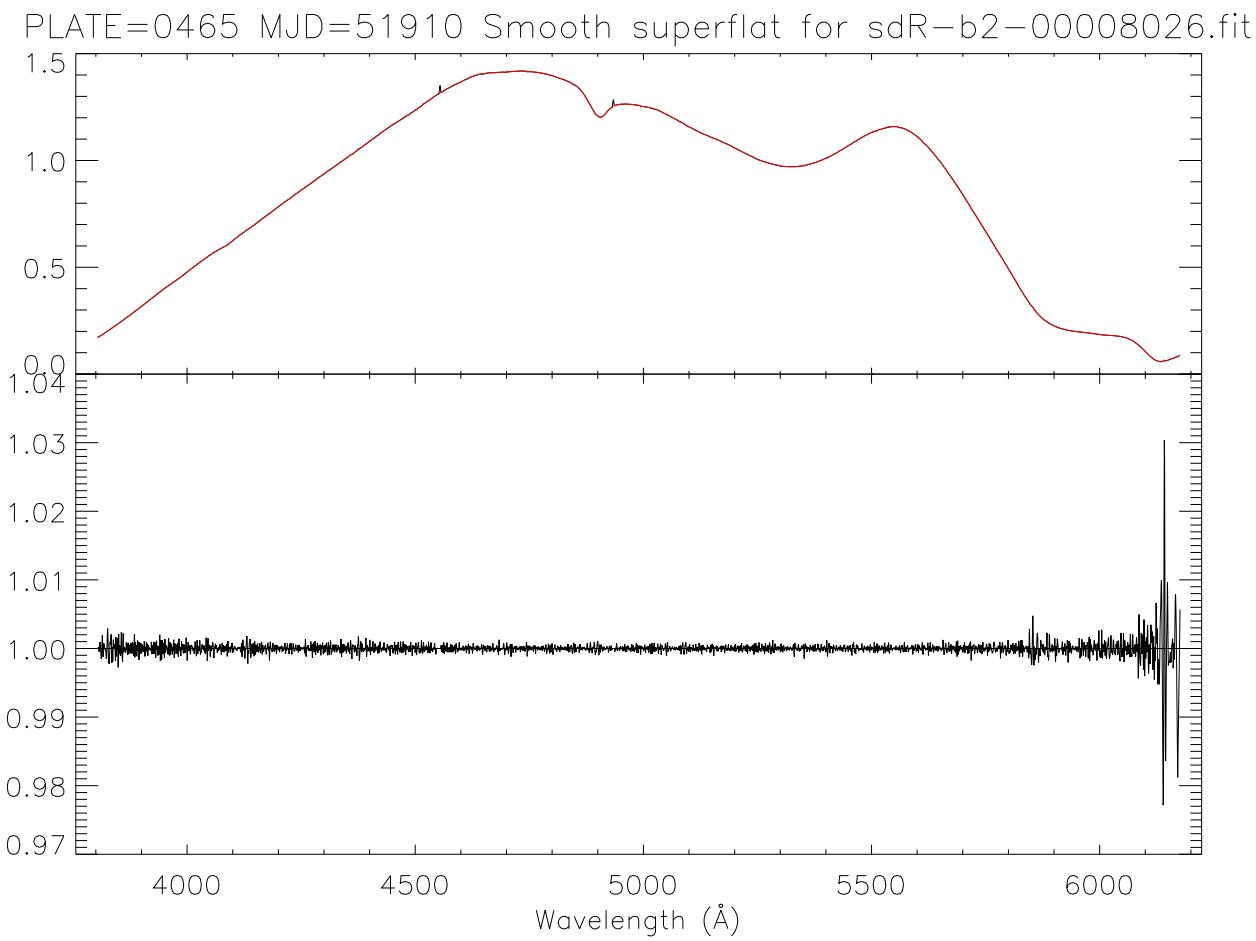

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

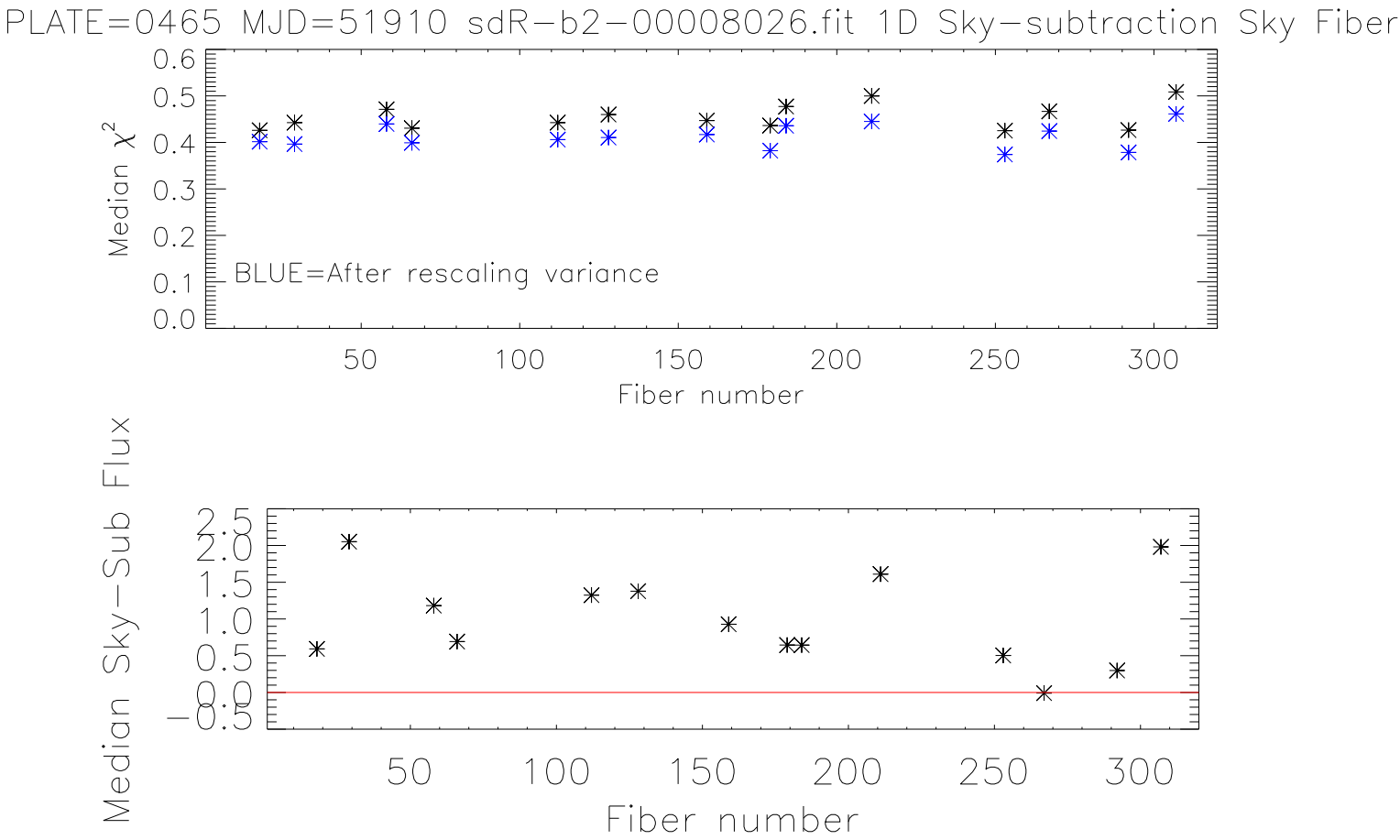

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

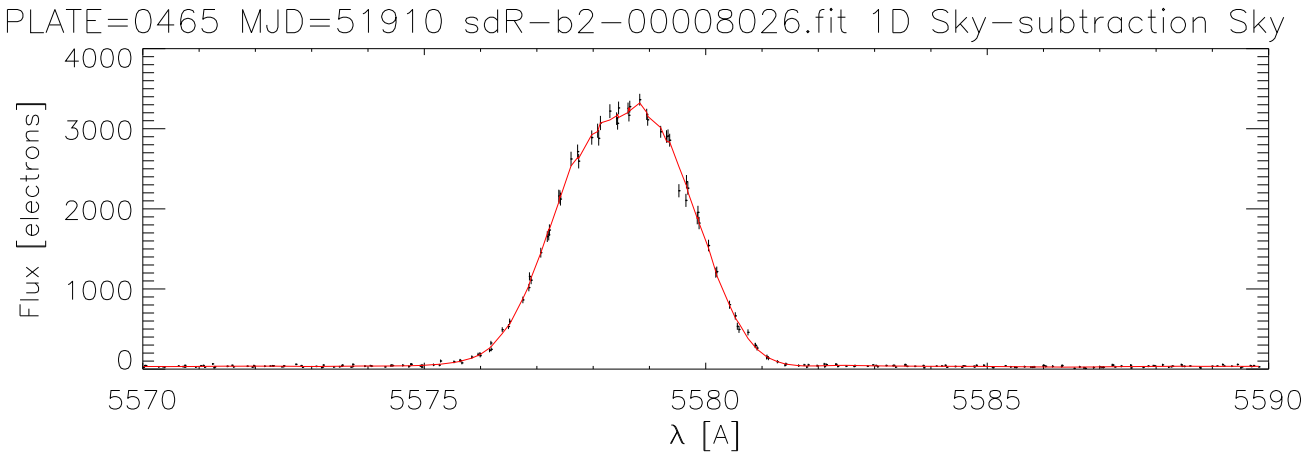

4046.5600
nfib1 15
nfib2 12
stdev 0.252
extra 0.03
4358.3300
nfib1 15
nfib2 15
stdev 0.087
extra −0.17
5460.9400
nfib1 14
nfib2 14
stdev 0.053
extra 0.00
5577.3390
nfib1 15
nfib2 15
stdev 0.017
extra 0.01
5889.9500
nfib1 15
nfib2 15
stdev 0.042
extra 0.05
5895.9240
nfib1 15
nfib2 15
stdev 0.060
extra 0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

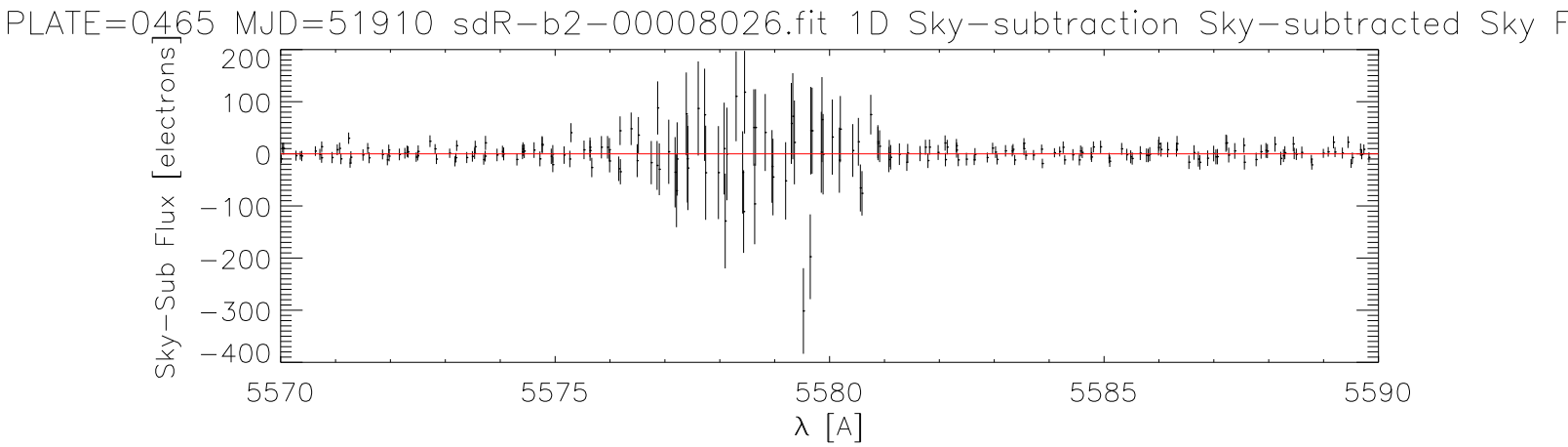

0.10
0.05
0.00
−0.05
−0.10
−0.15
−0.20
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

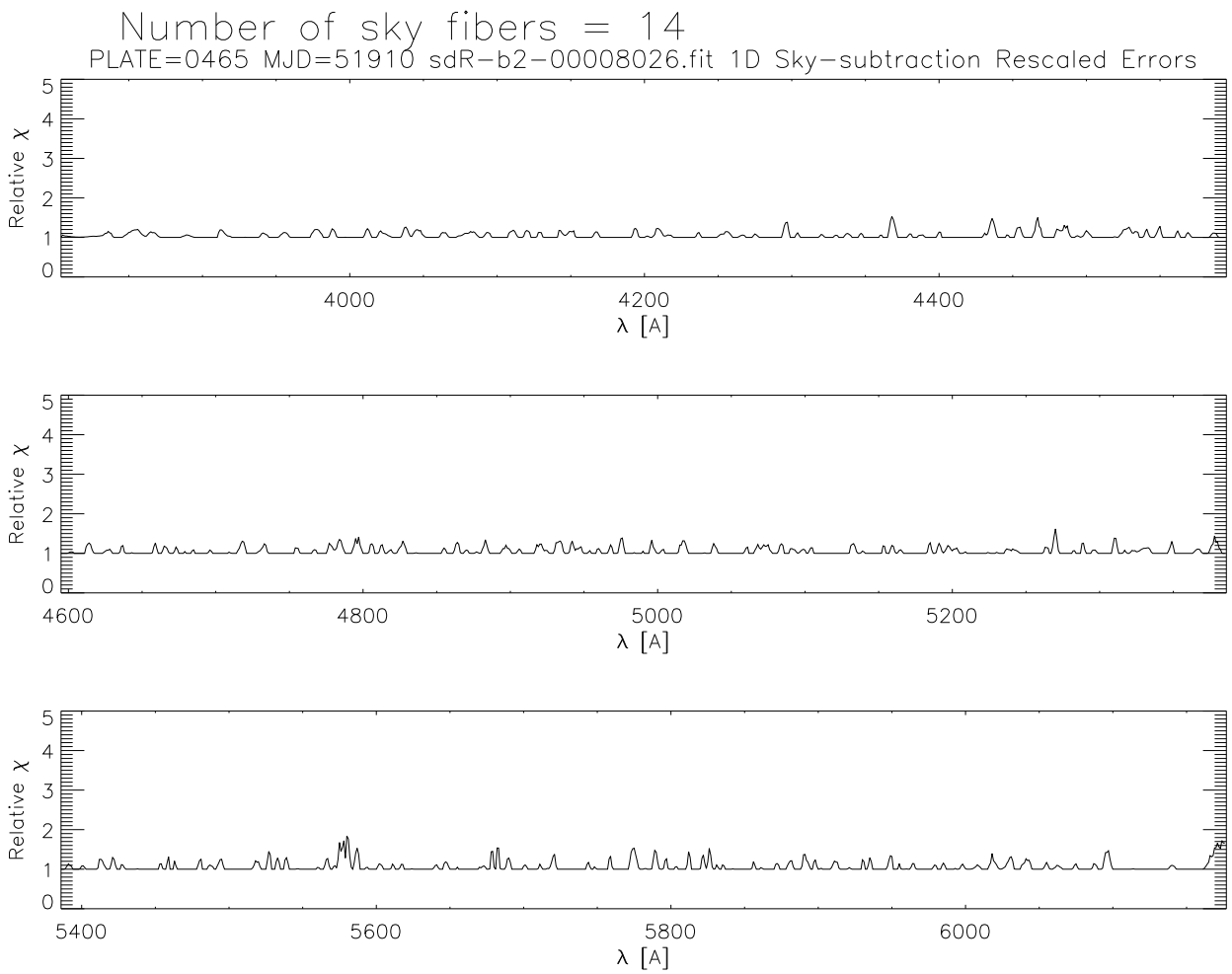
es= 0.0000

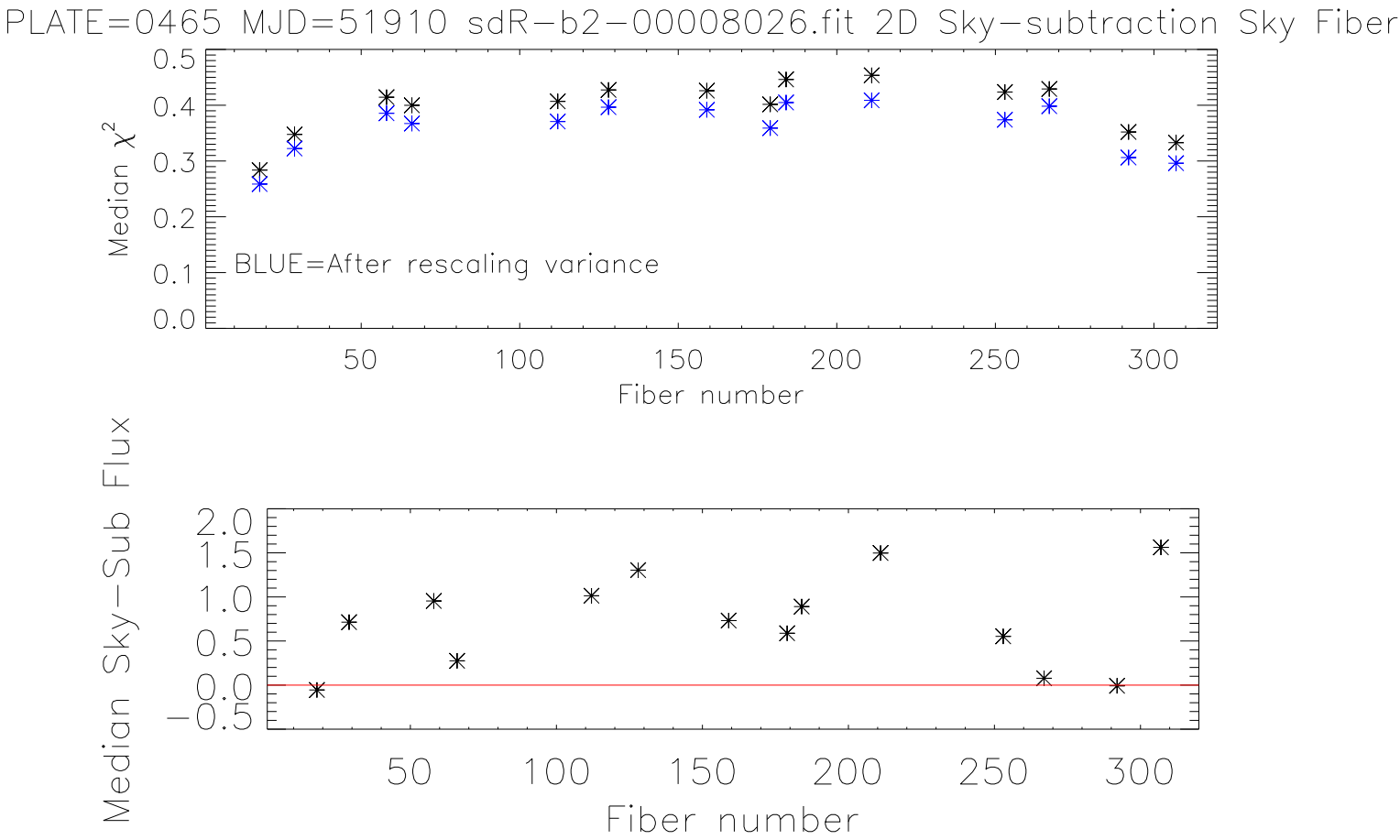

PLATE=0465 MJD=51910 Smooth superflat for sdR-b2-00008026.fit
1.5
1.0
0.5
0.0
1.04
1.03
1.02
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

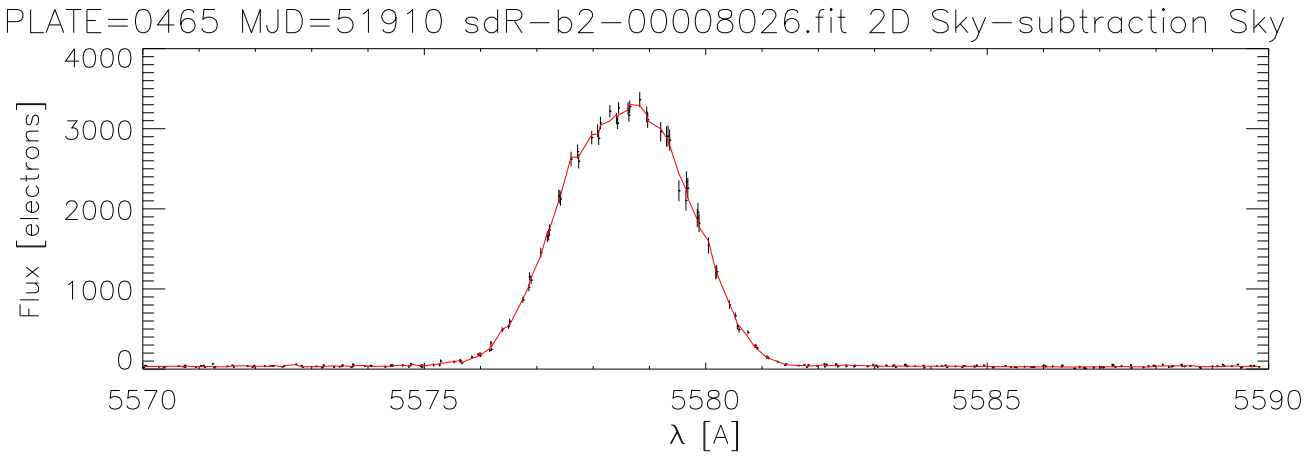

PLATE=0465 MJD=51910 sdR-b2-00008026.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

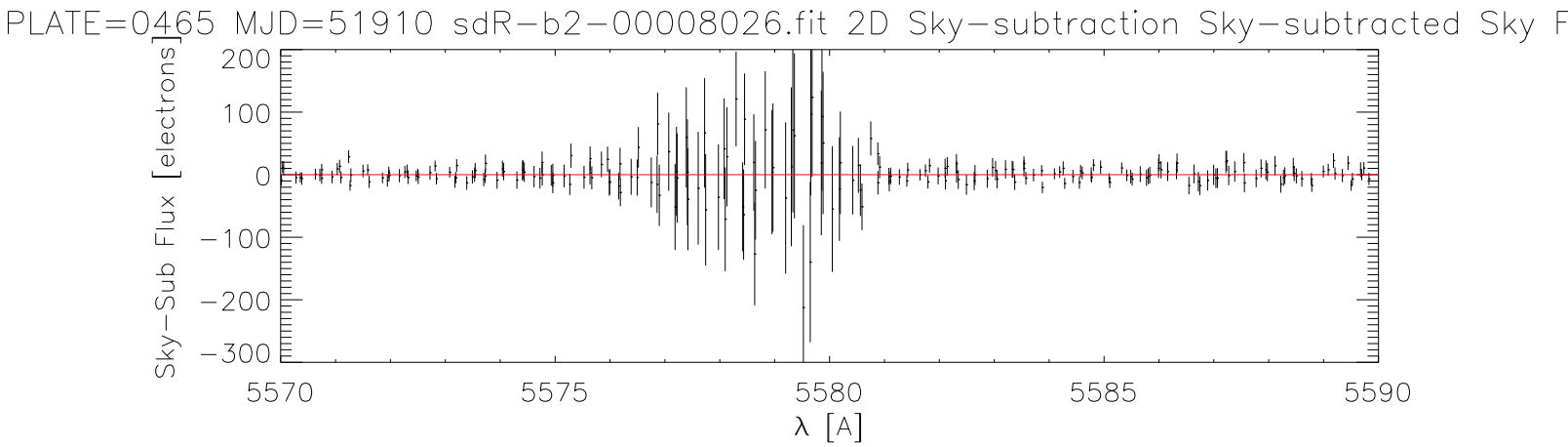

PLATE=0465 MJD=51910 sdR-b2-00008026.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

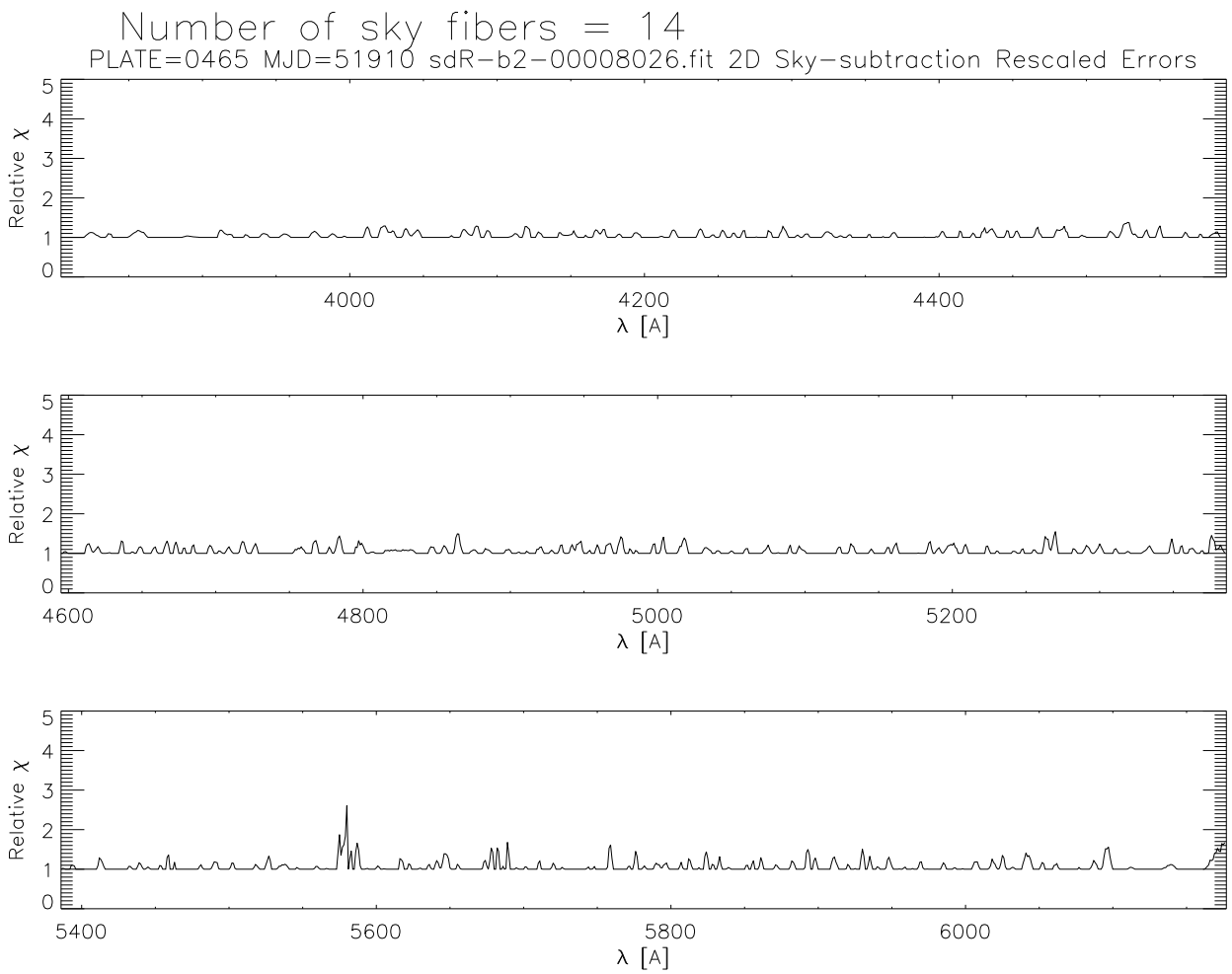

PLATE=0465 MJD=51910 sdR-b2-00008026.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
-400
5570
5575
5580
5585
5590
λ [A]

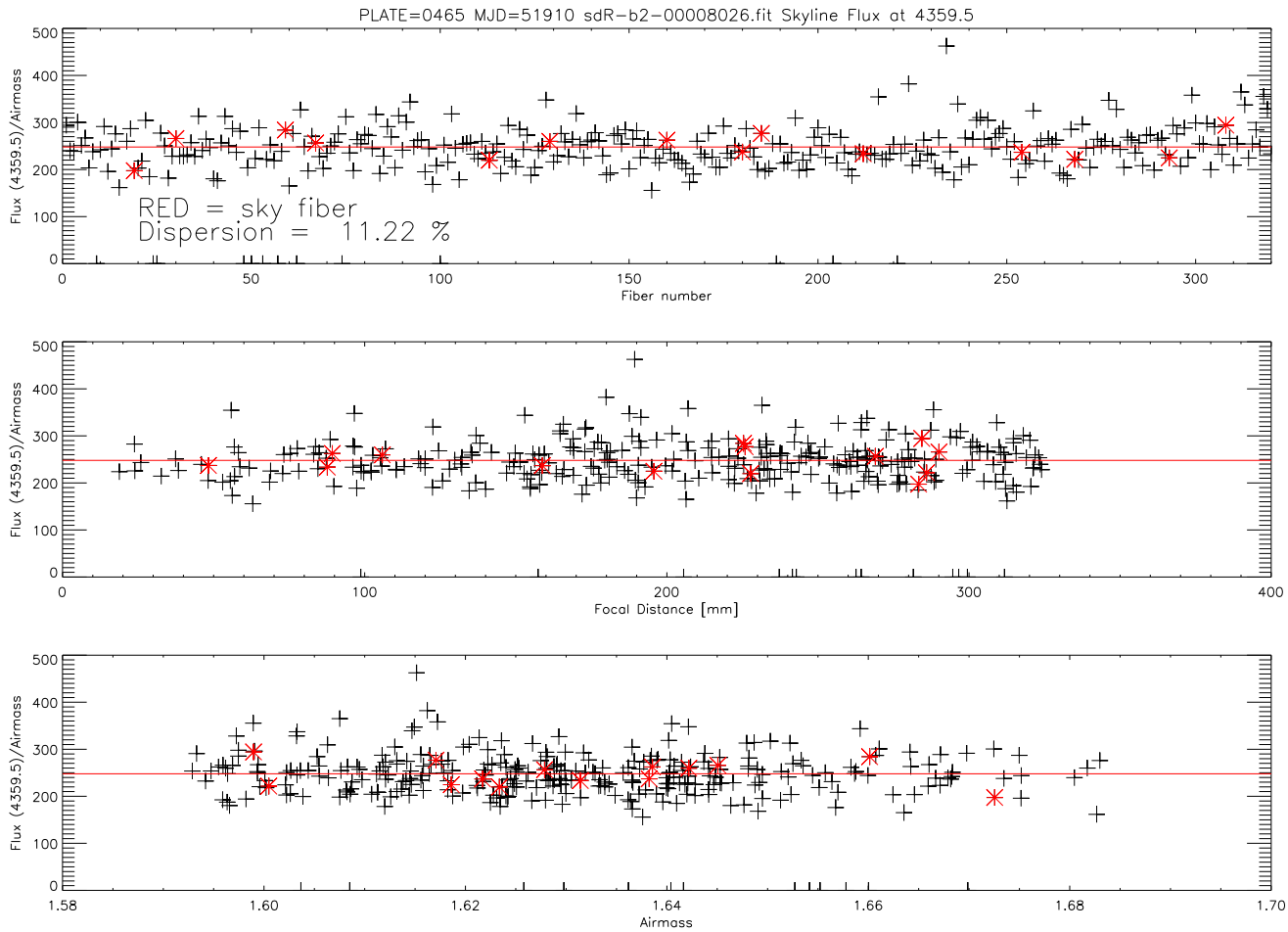

Number of sky fibers = 14
PLATE=0465 MJD=51910 sdR-b2-00008026.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

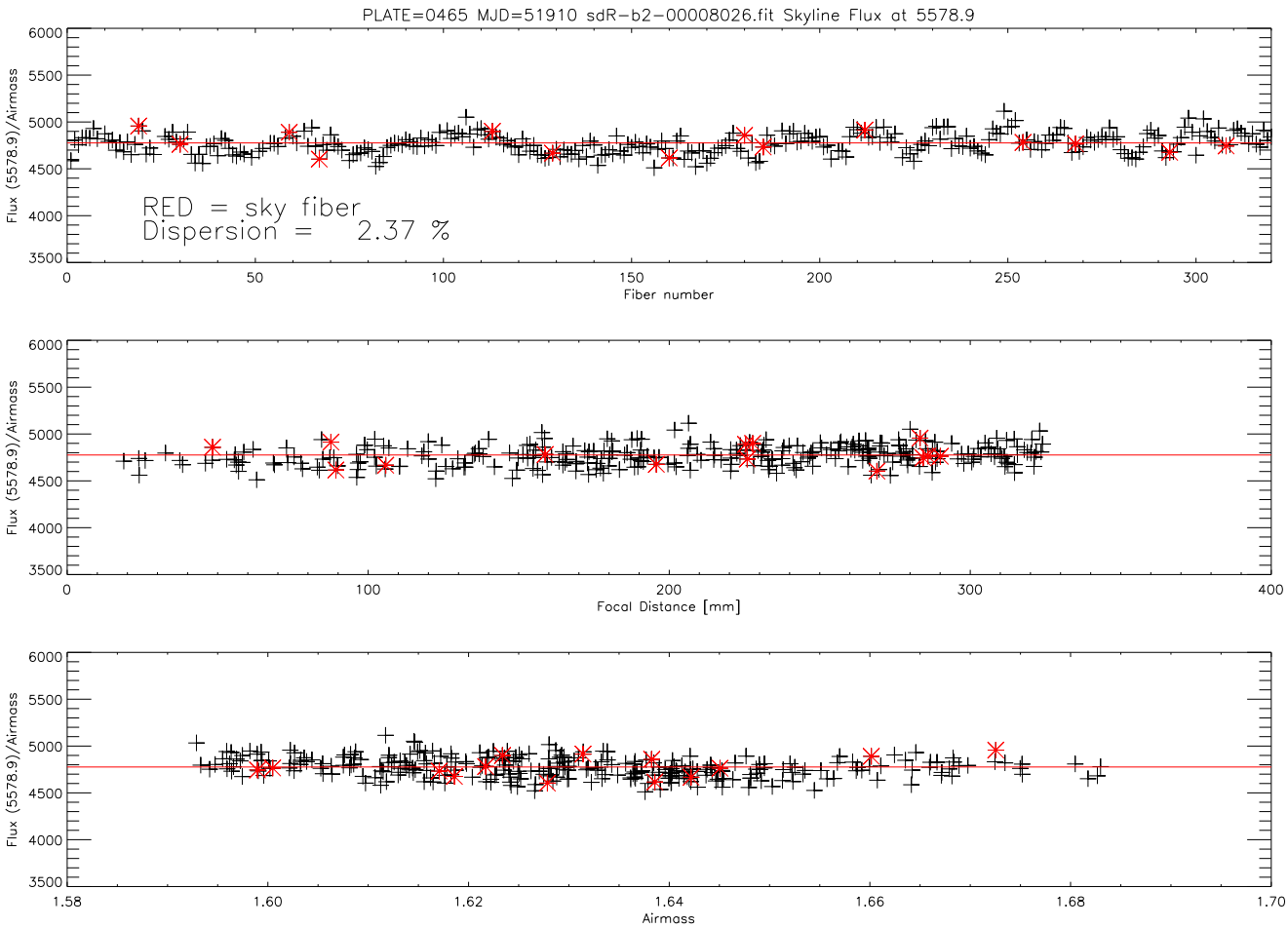

PLATE=0465 MJD=51910 sdR-b2-00008026.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

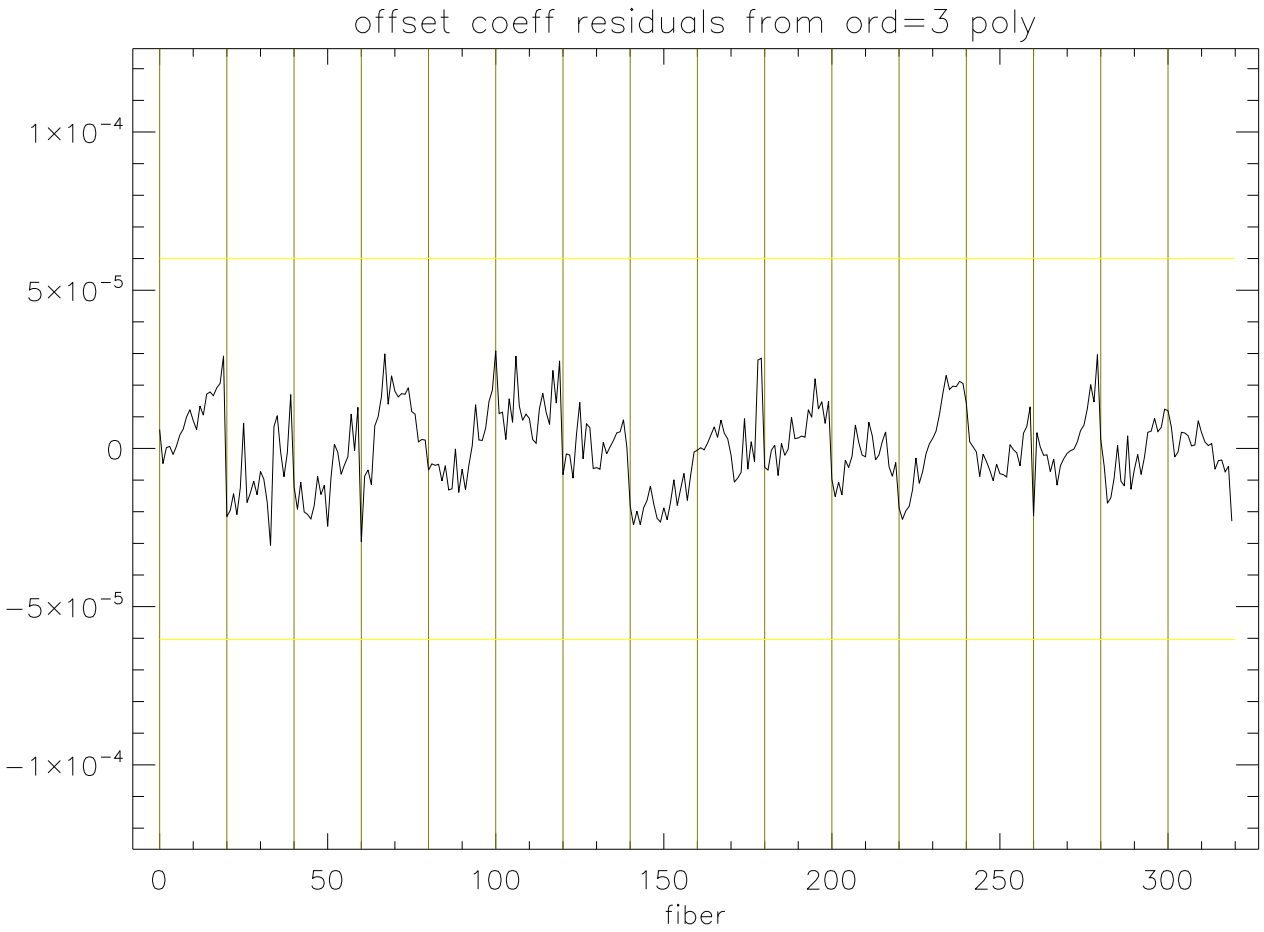

PLATE=0465 MJD=51910 sdR-b2-00008026.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

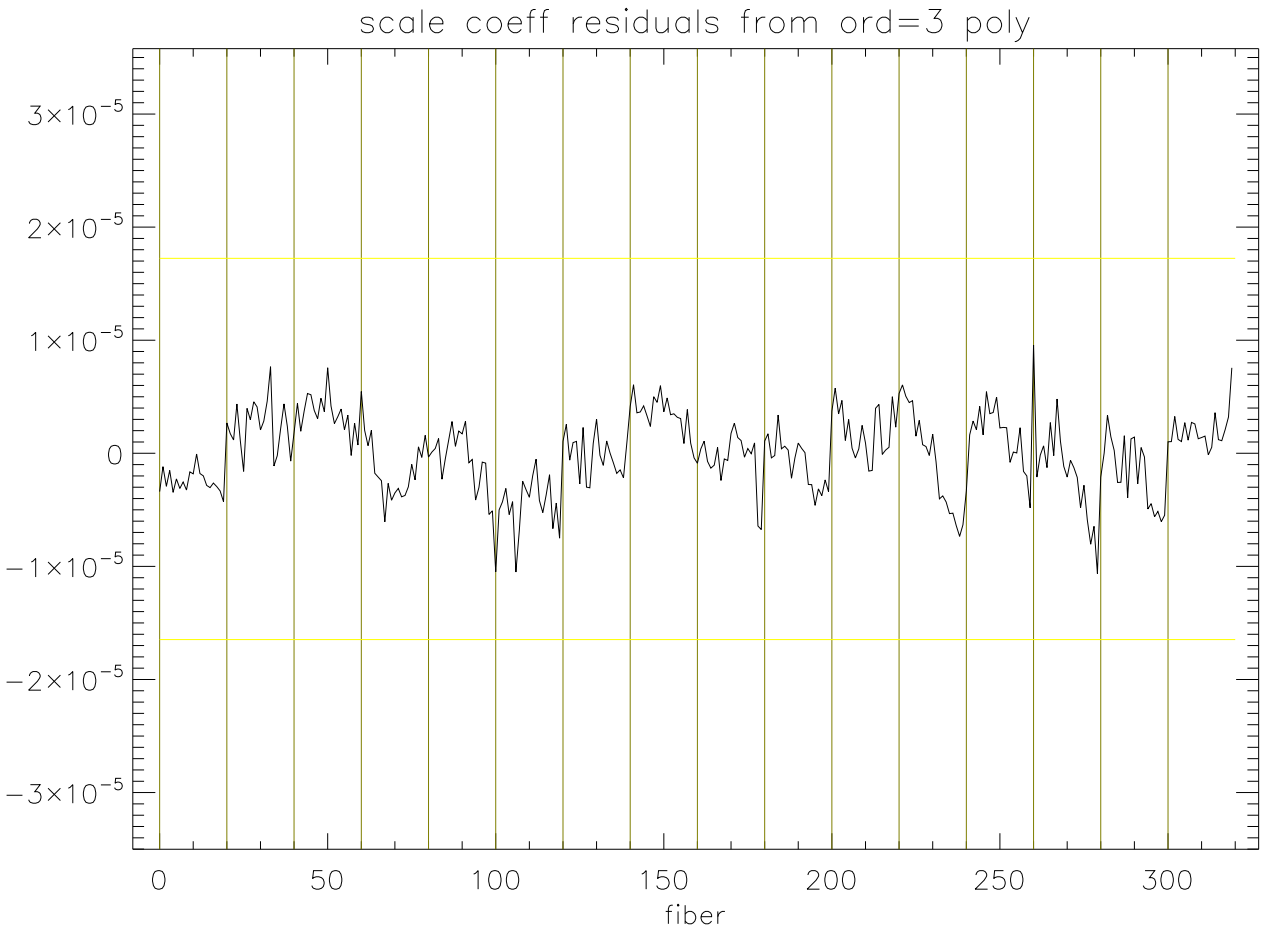

PLATE=0465 MJD=51910 sdR-b2-00008026.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

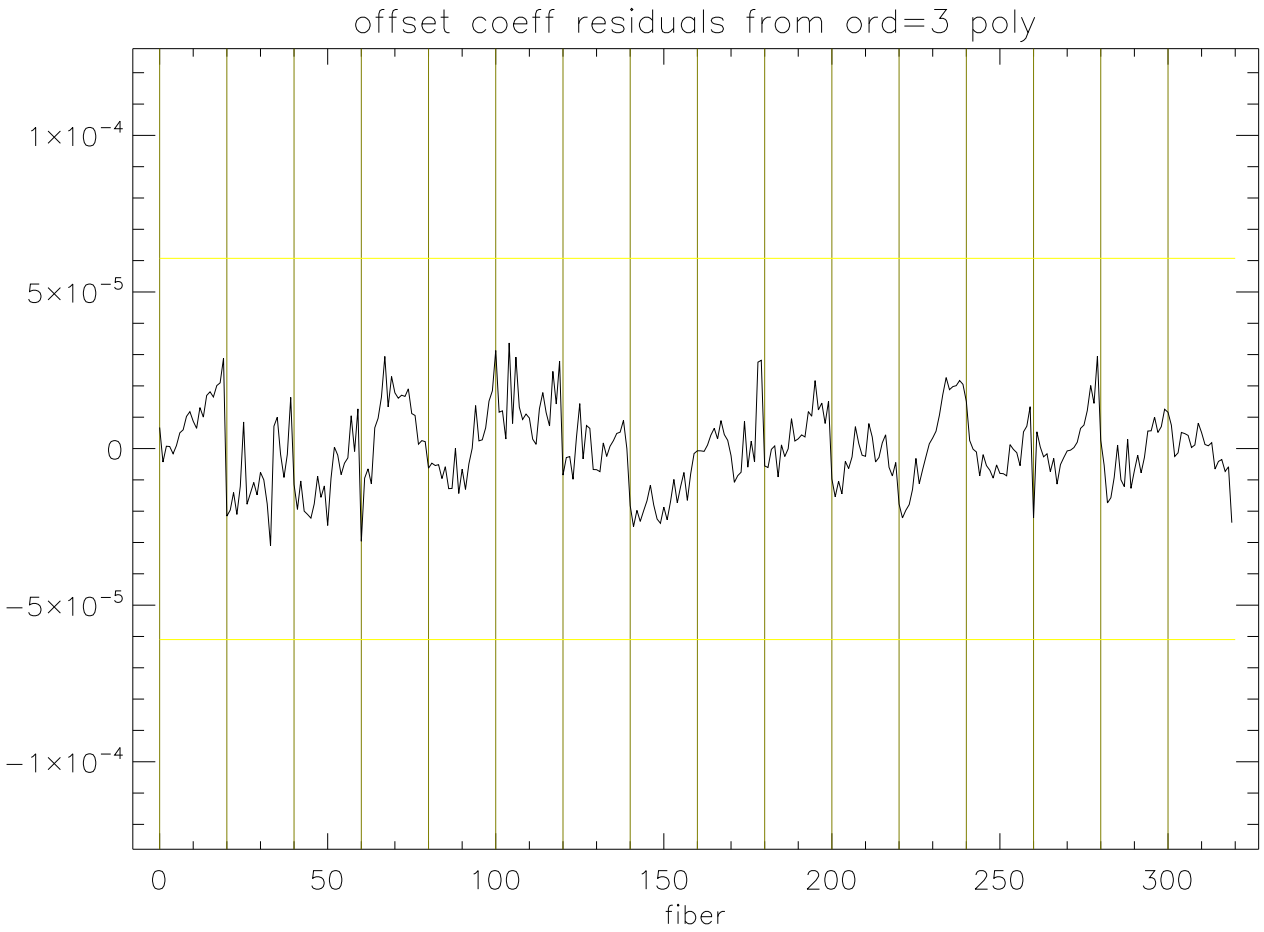

Number of sky fibers = 14
PLATE=0465 MJD=51910 sdR-b2-00008026.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

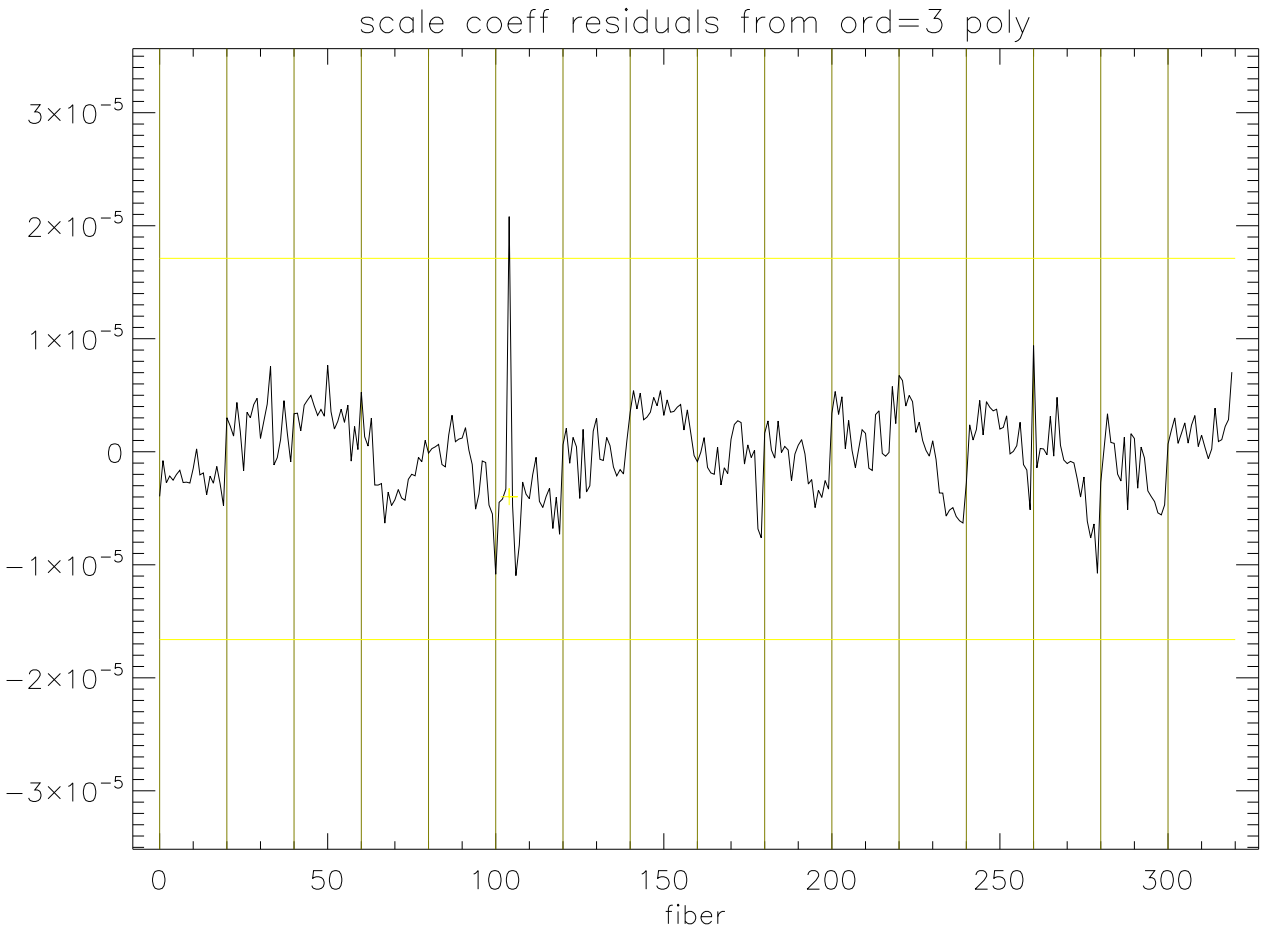

PLATE=0465 MJD=51910 sdR-b2-00008026.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.22 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

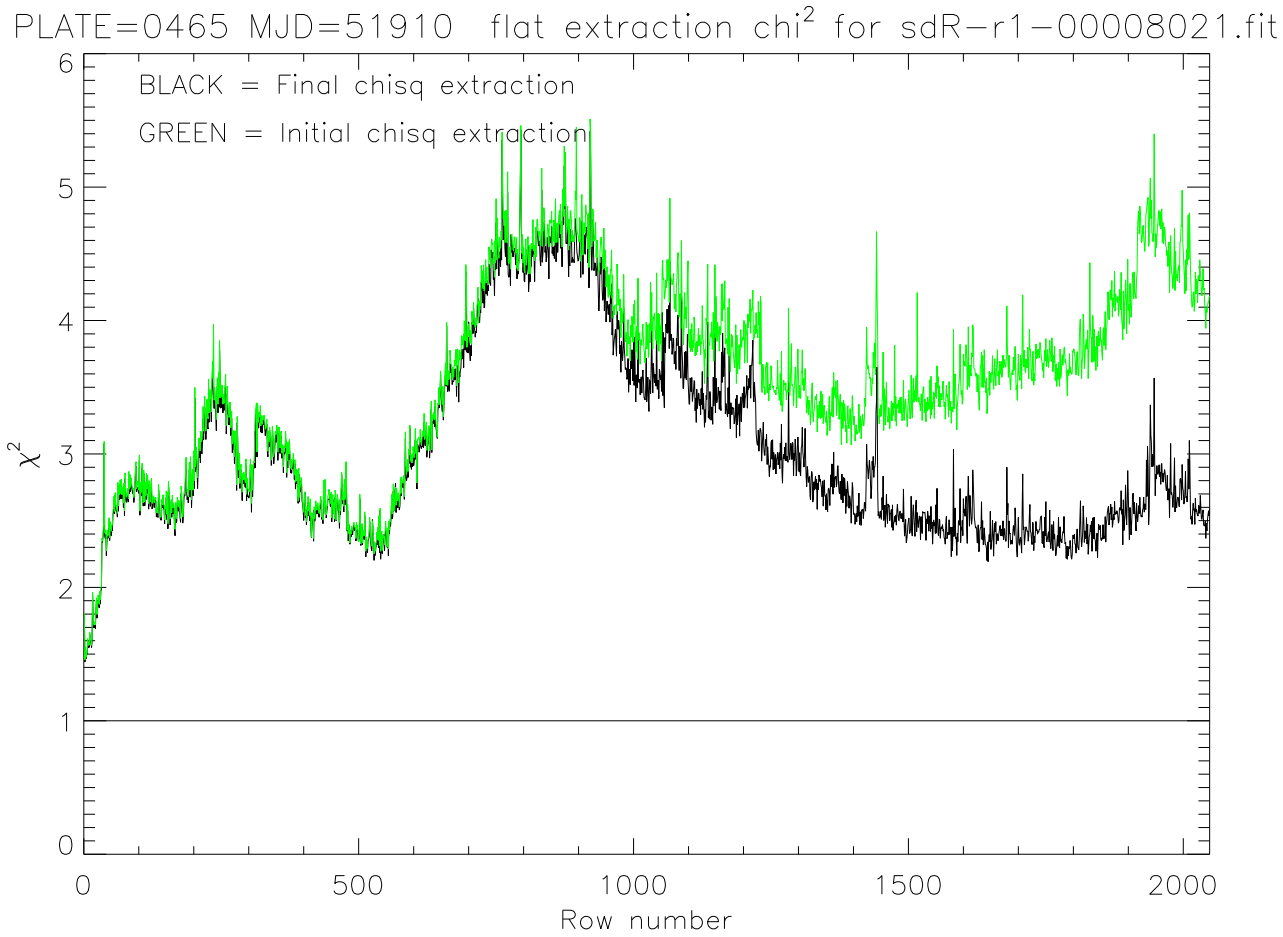

PLATE=0465 MJD=51910 sdR-b2-00008026.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.37 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

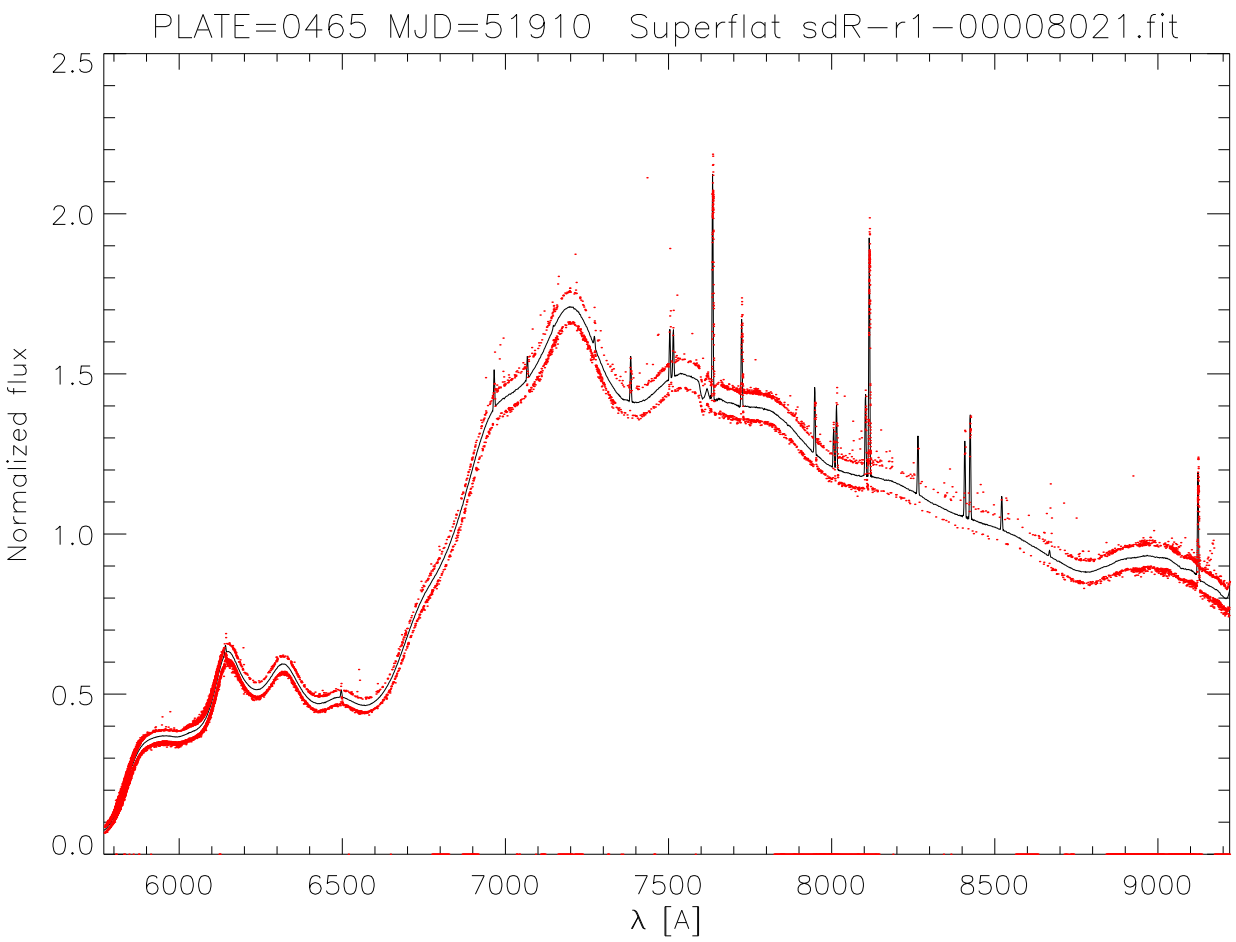

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

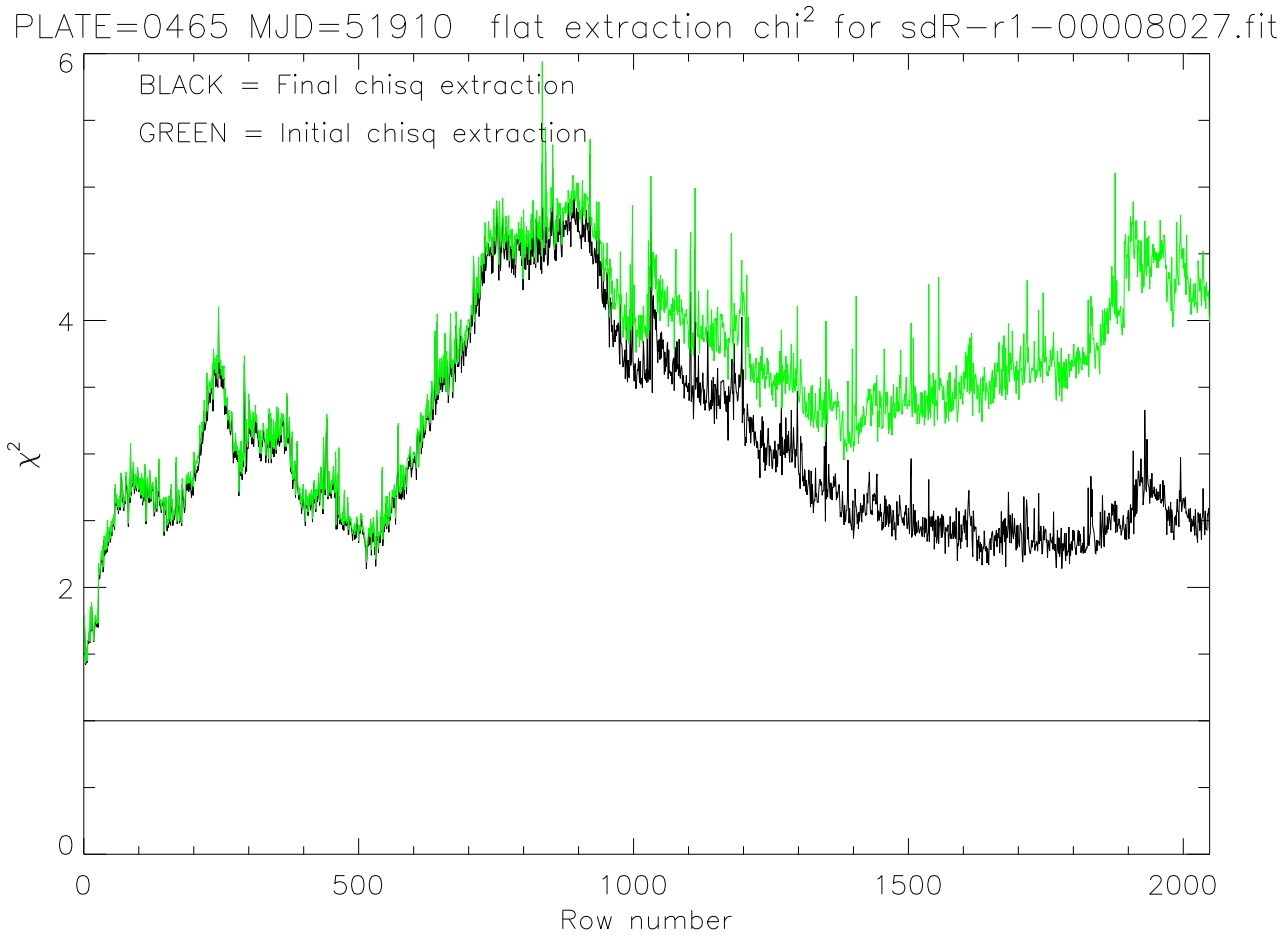

scale coeff residuals from ord=3 poly
3×10^-5
2×10^-5
1×10^-5
0
−1×10^-5
−2×10^-5
−3×10^-5
0
50
100
150
200
250
300
fiber

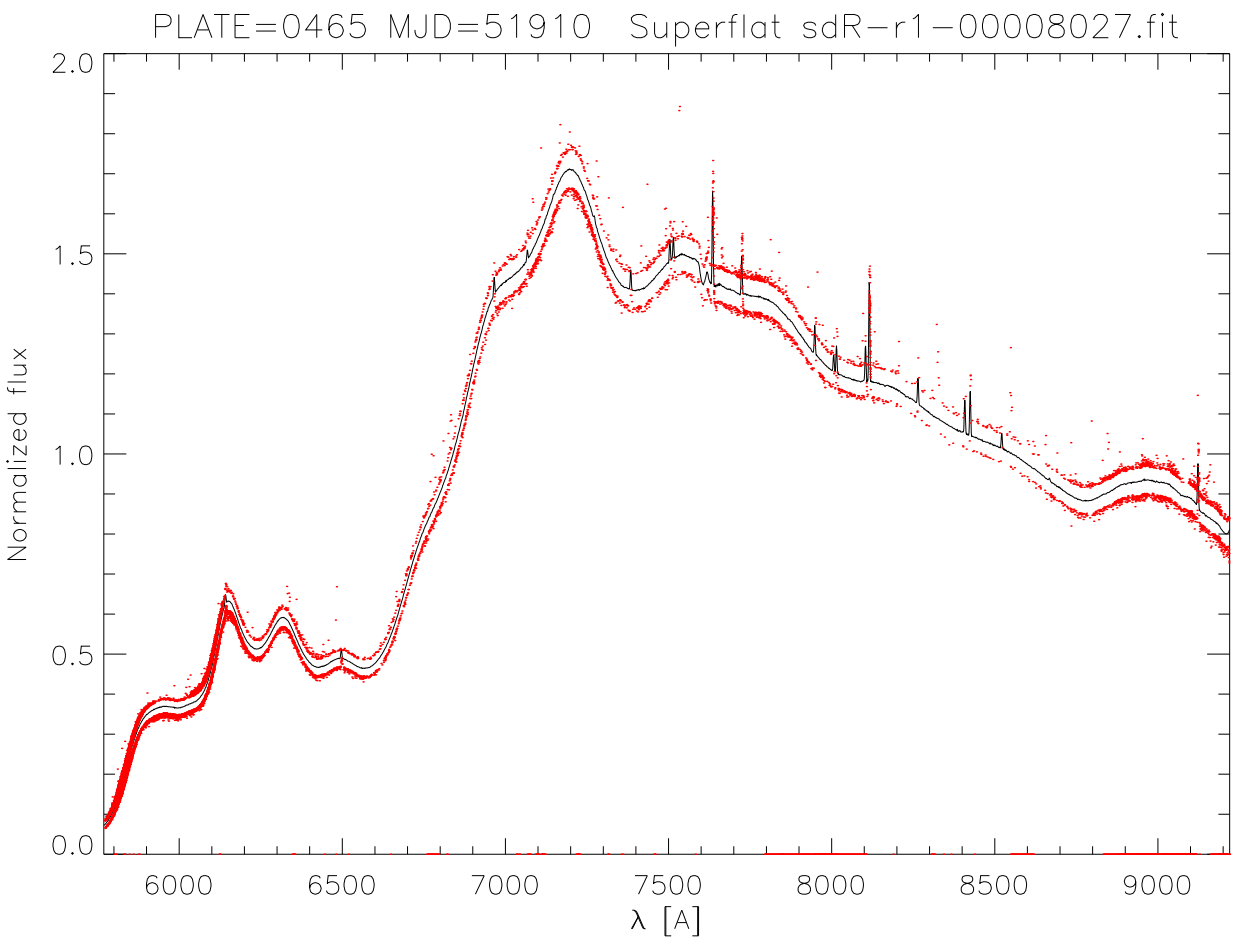

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

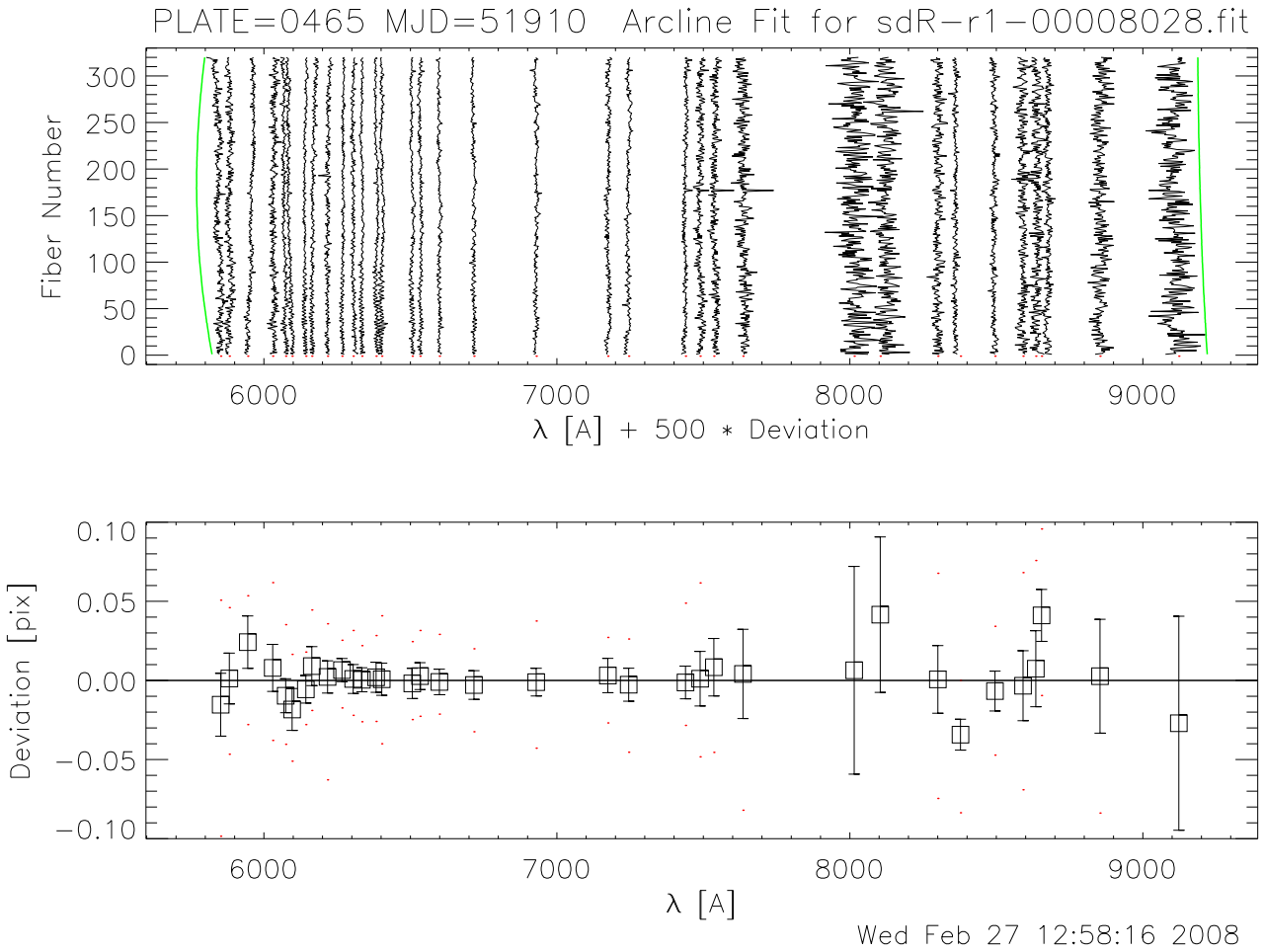

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

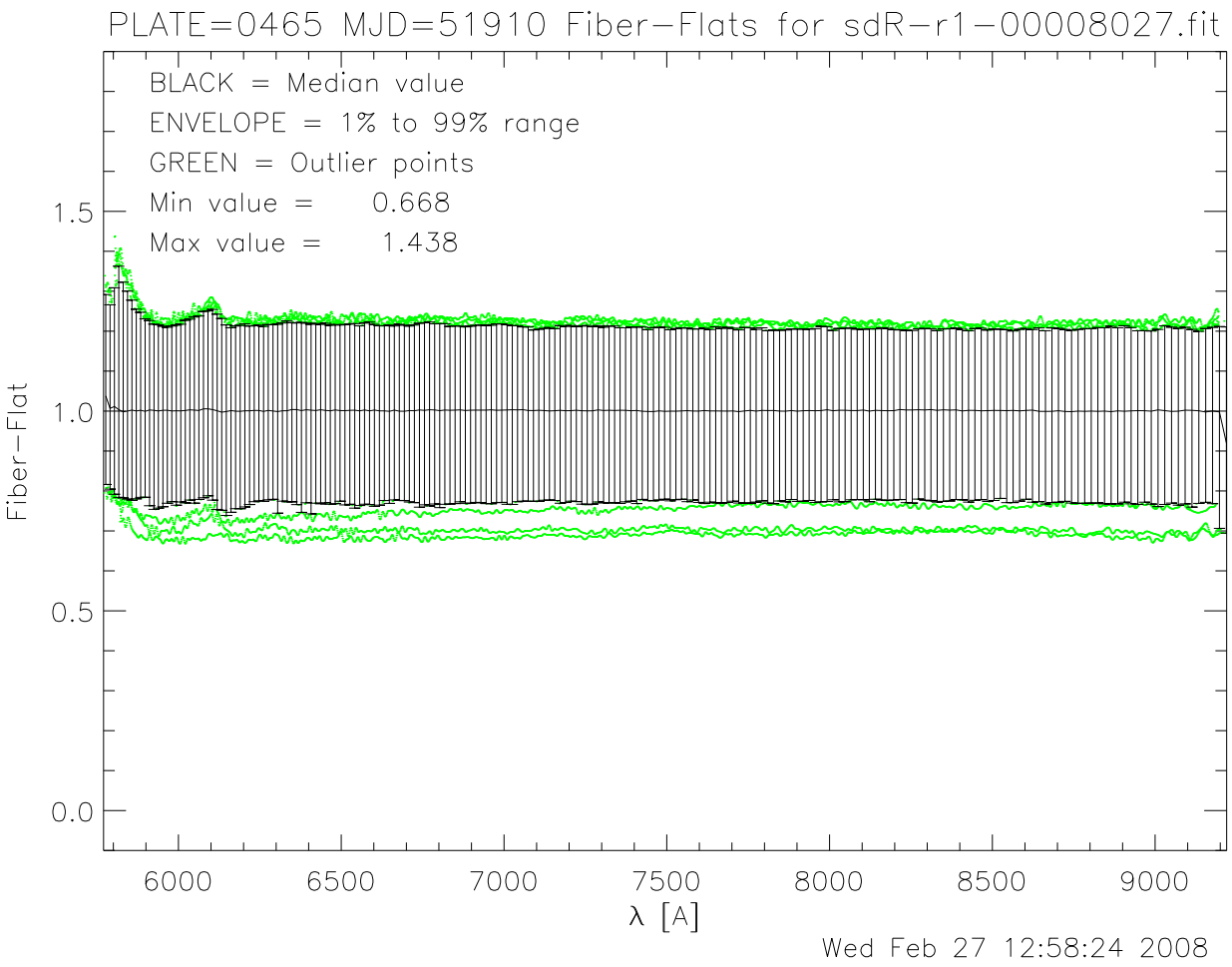

PLATE=0465 MJD=51910 flat extraction chi^2 for sdR−r1−00008021.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

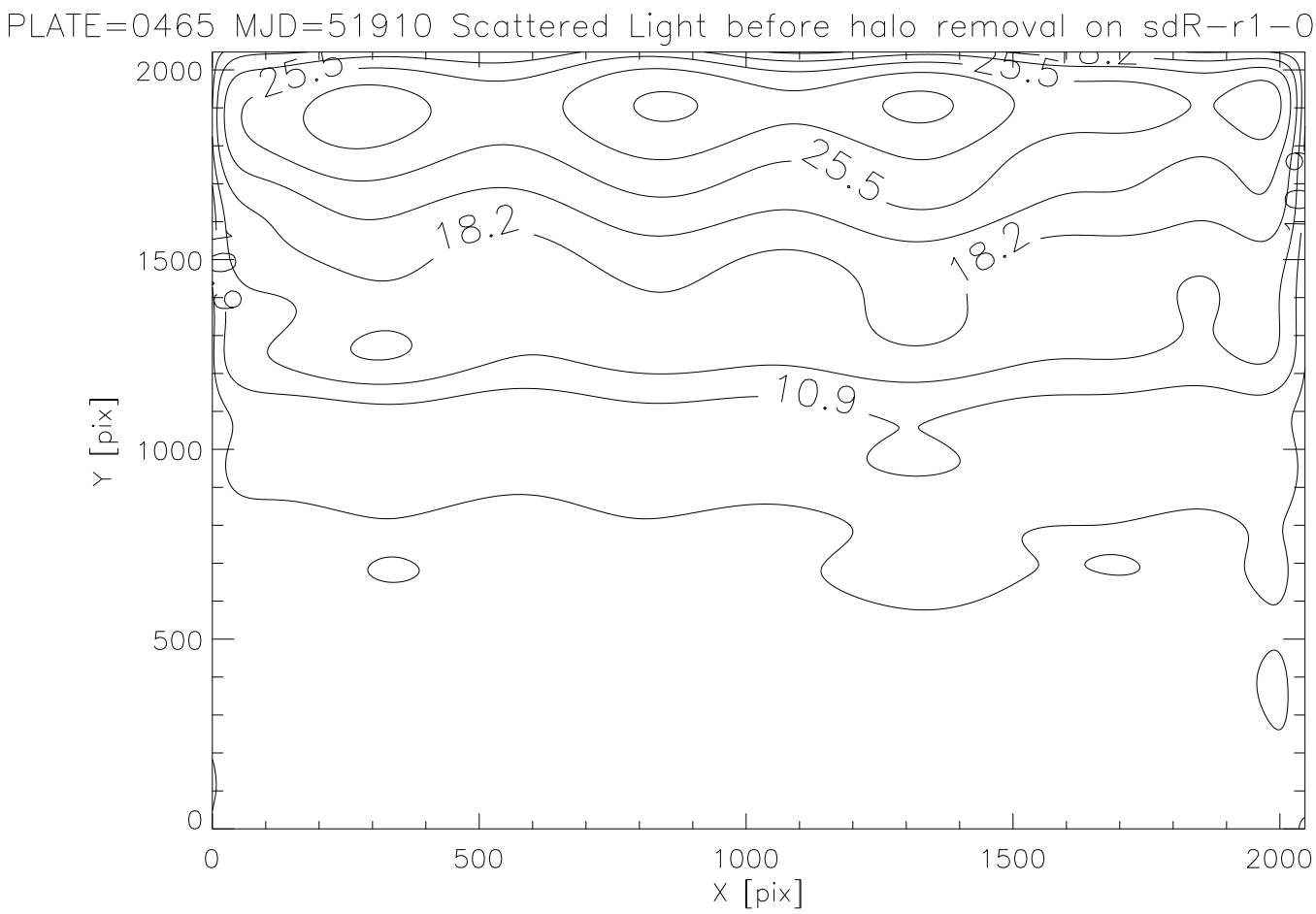

PLATE=0465 MJD=51910 Superflat sdR-r1-00008021.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
2.5
6000
6500
7000
7500
8000
8500
9000

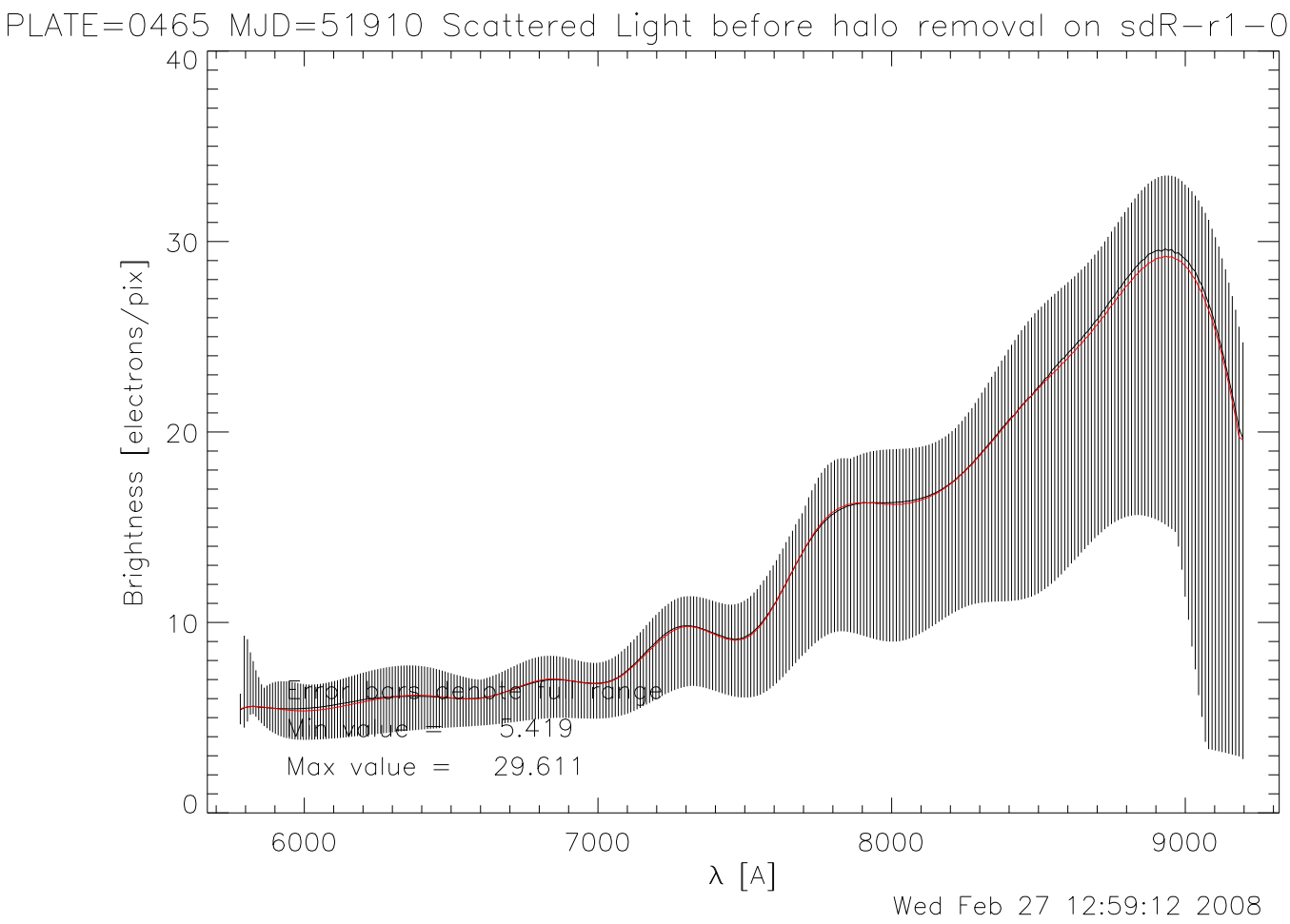

PLATE=0465 MJD=51910 flat extraction chi^2 for sdR−r1−00008027.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

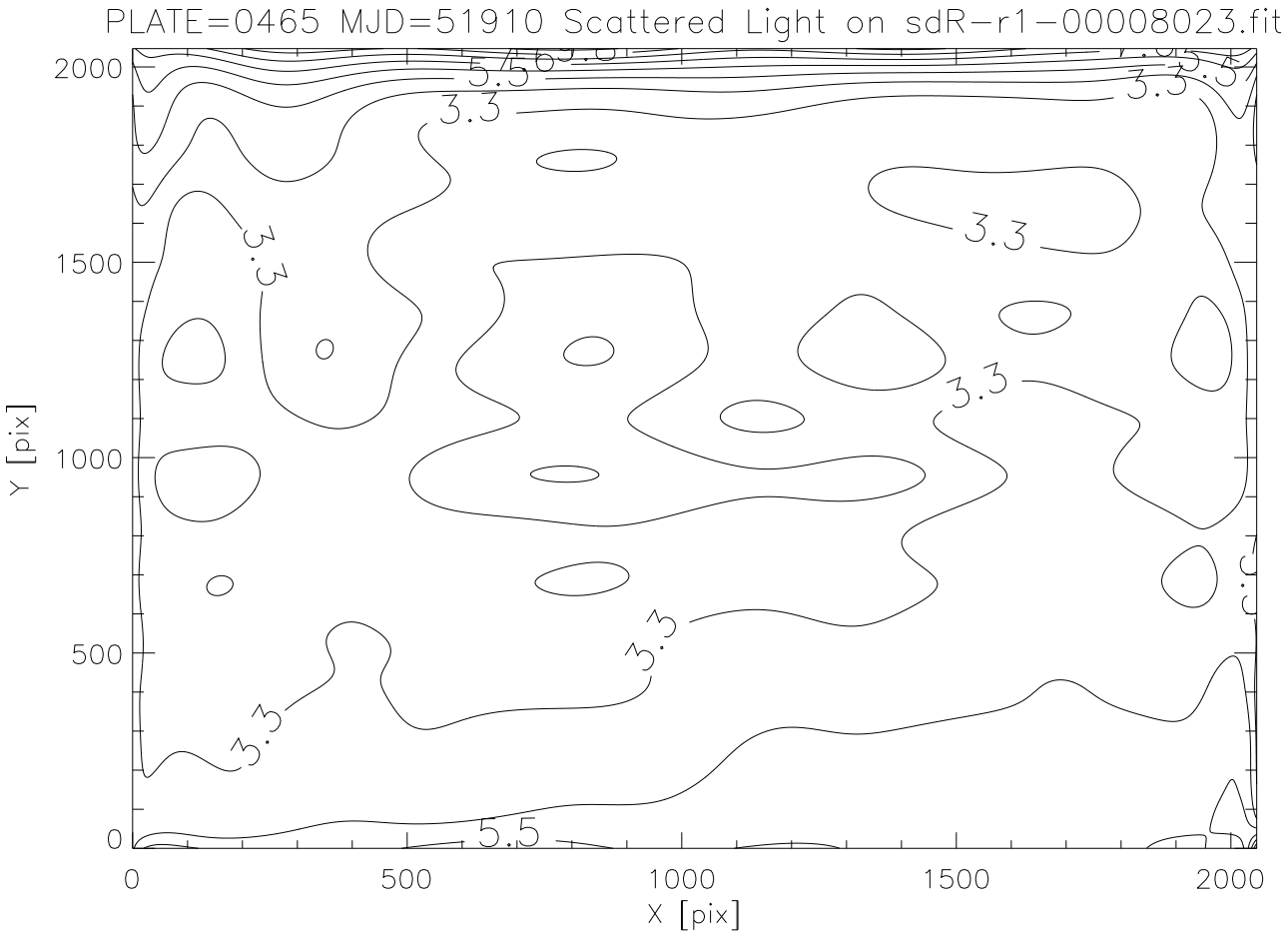

PLATE=0465 MJD=51910 Superflat sdR-r1-00008027.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

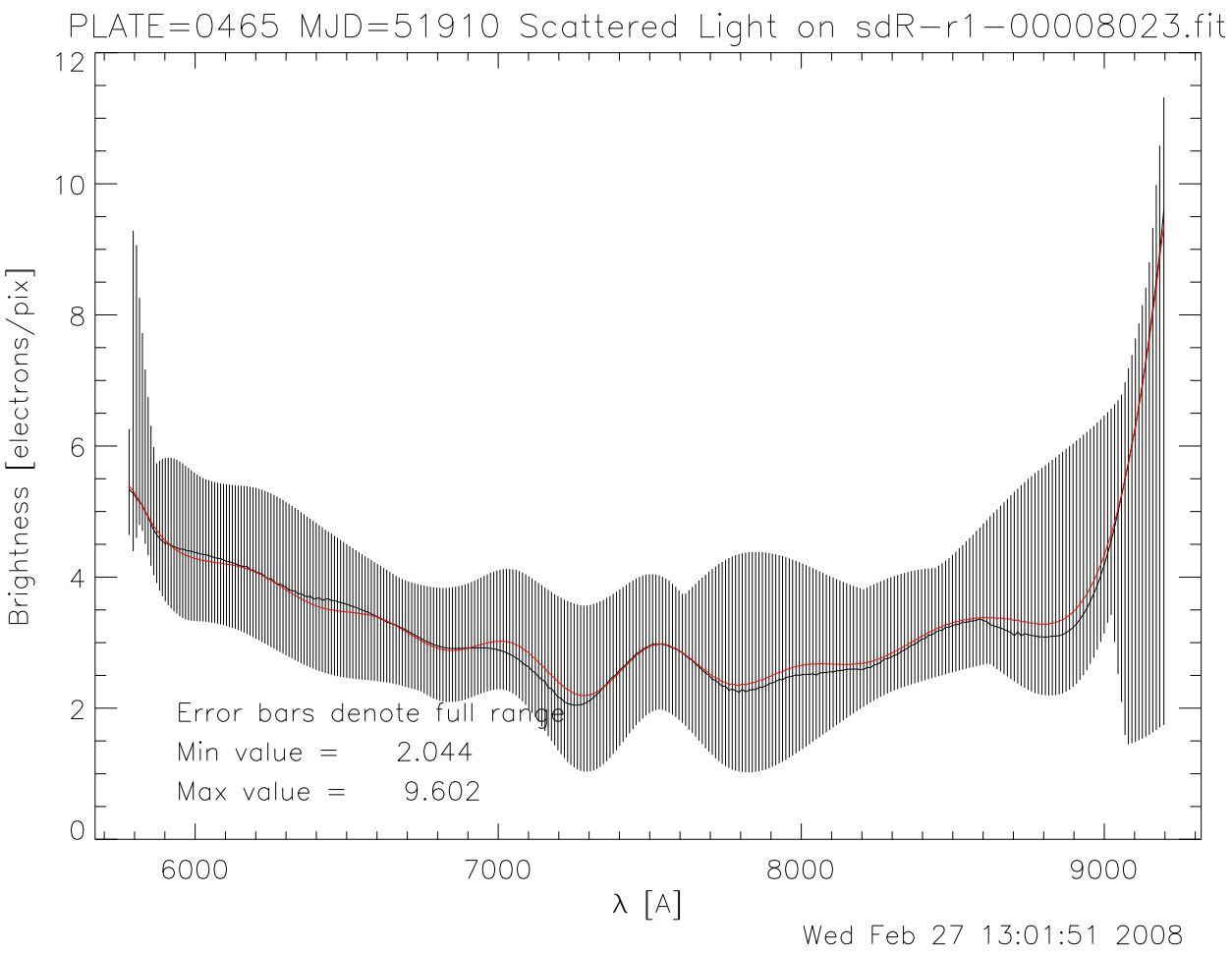

PLATE=0465 MJD=51910 Arcline Fit for sdR-r1-00008028.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Wed Feb 27 12:58:16 2008

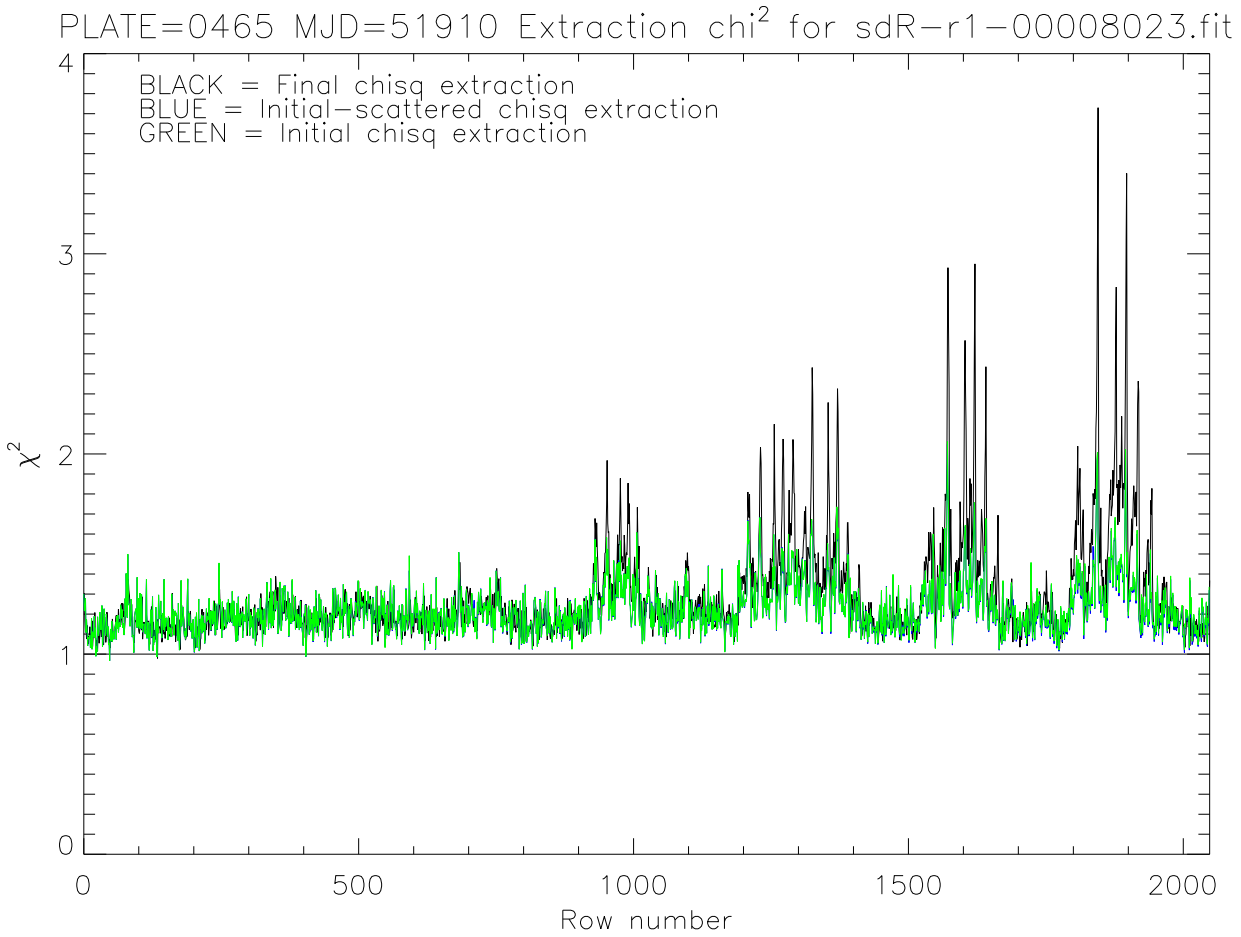

PLATE=0465 MJD=51910 Fiber−Flats for sdR−r1−00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.668
Max value = 1.438
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 12:58:24 2008

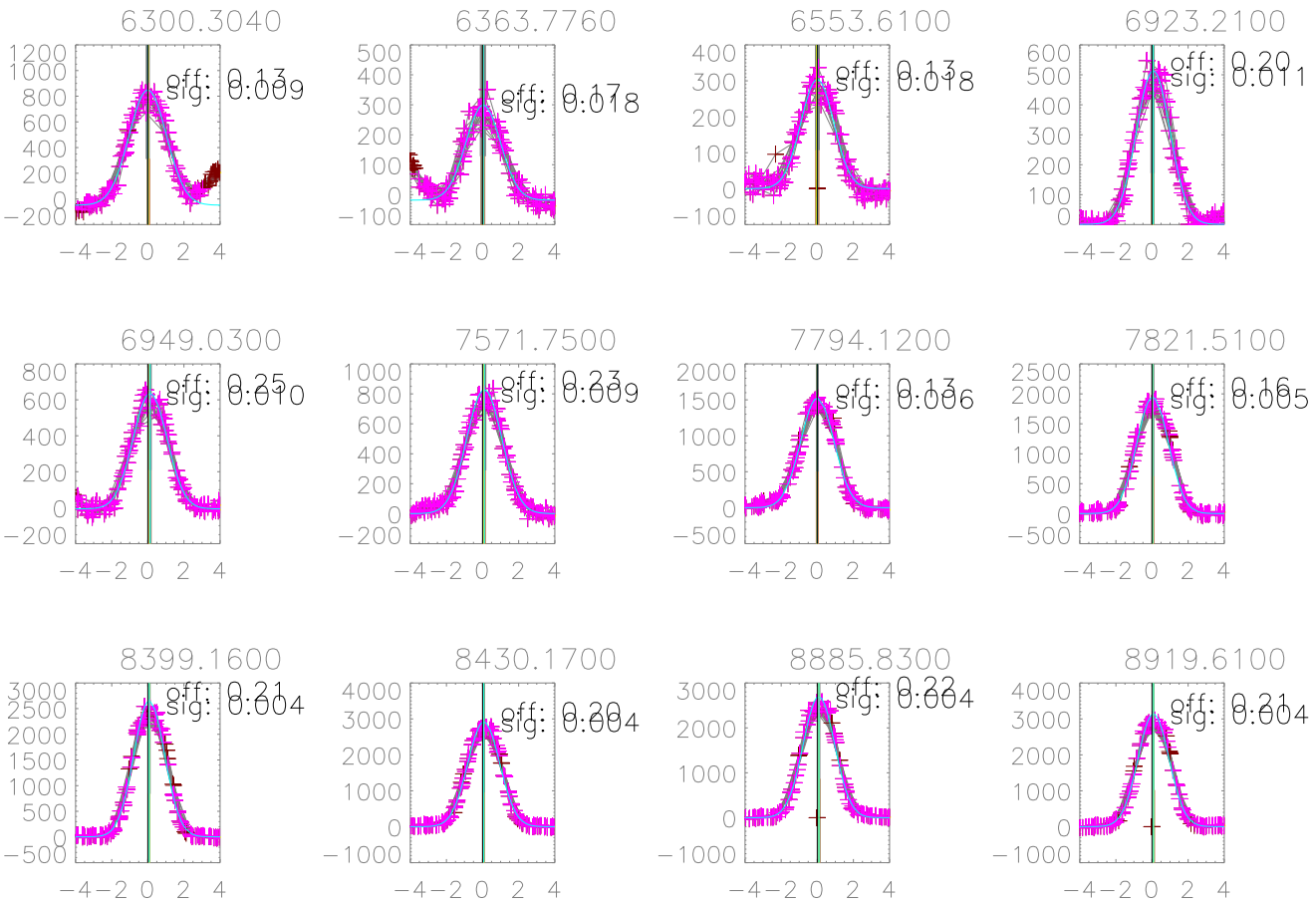

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR−r1−00008023.fi
25.5
25.5
25.5
18.2
18.2
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

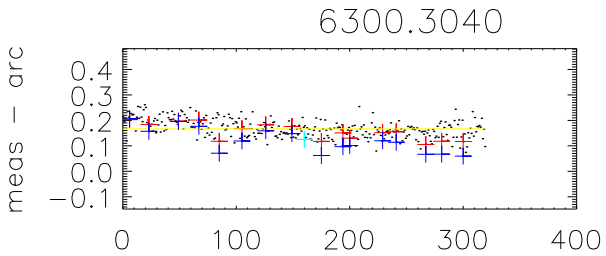

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r1-00008023.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.419
Max value = 29.611
Wed Feb 27 12:59:12 2008

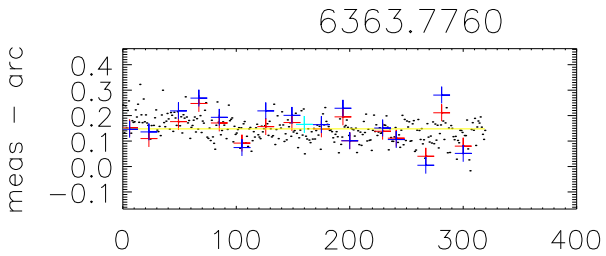

PLATE=0465 MJD=51910 Scattered Light on sdR-r1-00008023.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.5
3.3
0

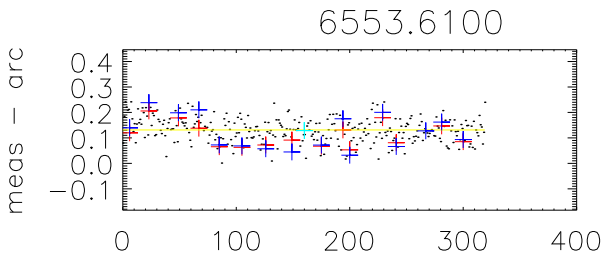

PLATE=0465 MJD=51910 Scattered Light on sdR-r1-00008023.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.044
Max value = 9.602
Wed Feb 27 13:01:51 2008

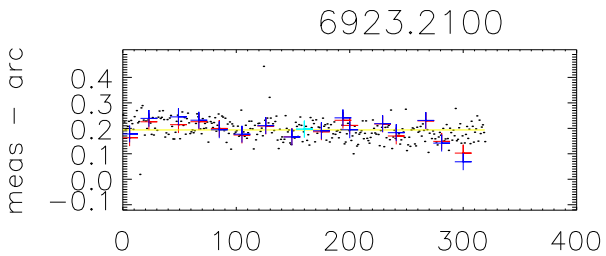

PLATE=0465 MJD=51910 Extraction chi^2 for sdR−r1−00008023.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

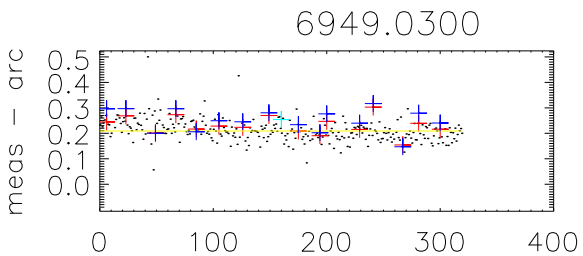

6300.3040
off: 0.13
sig: 0.009
6363.7760
off: 0.17
sig: 0.018
6553.6100
off: 0.13
sig: 0.018
6923.2100
off: 0.20
sig: 0.011
6949.0300
off: 0.25
sig: 0.010
7571.7500
off: 0.23
sig: 0.009
7794.1200
off: 0.13
sig: 0.006
7821.5100
off: 0.16
sig: 0.005
8399.1600
off: 0.21
sig: 0.004
8430.1700
off: 0.20
sig: 0.004
8885.8300
off: 0.22
sig: 0.004
8919.6100
off: 0.21
sig: 0.004

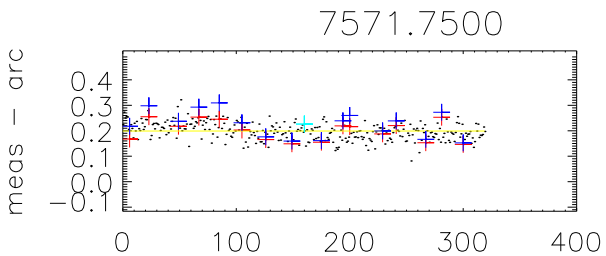

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

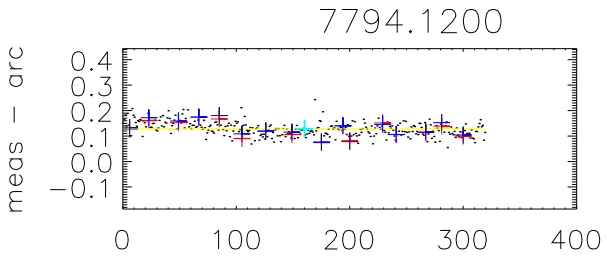

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

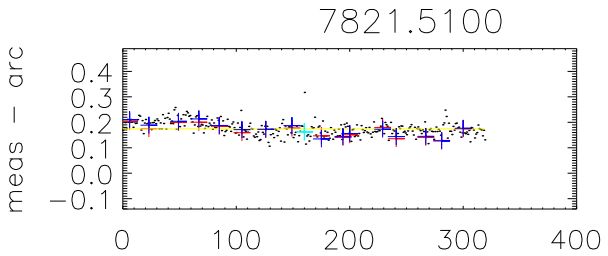

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

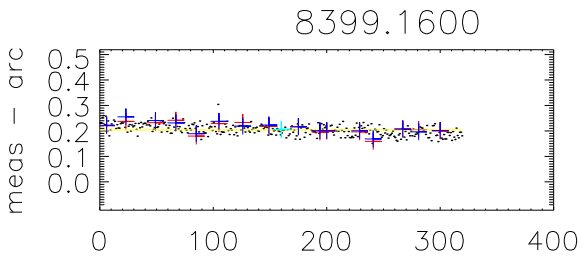

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

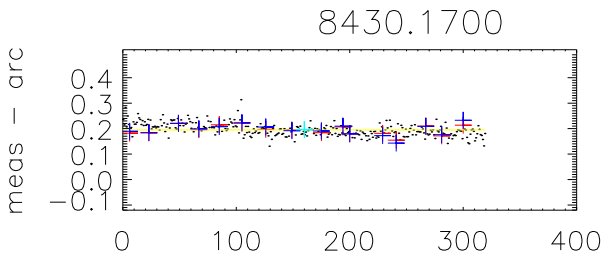

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

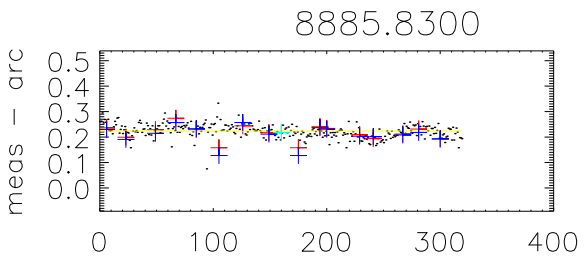

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

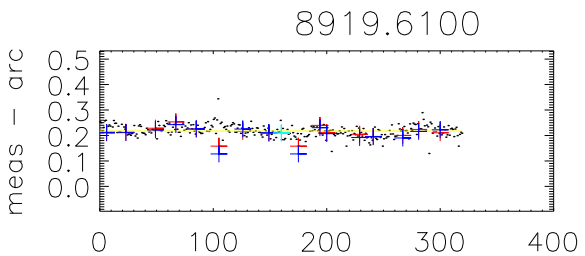

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

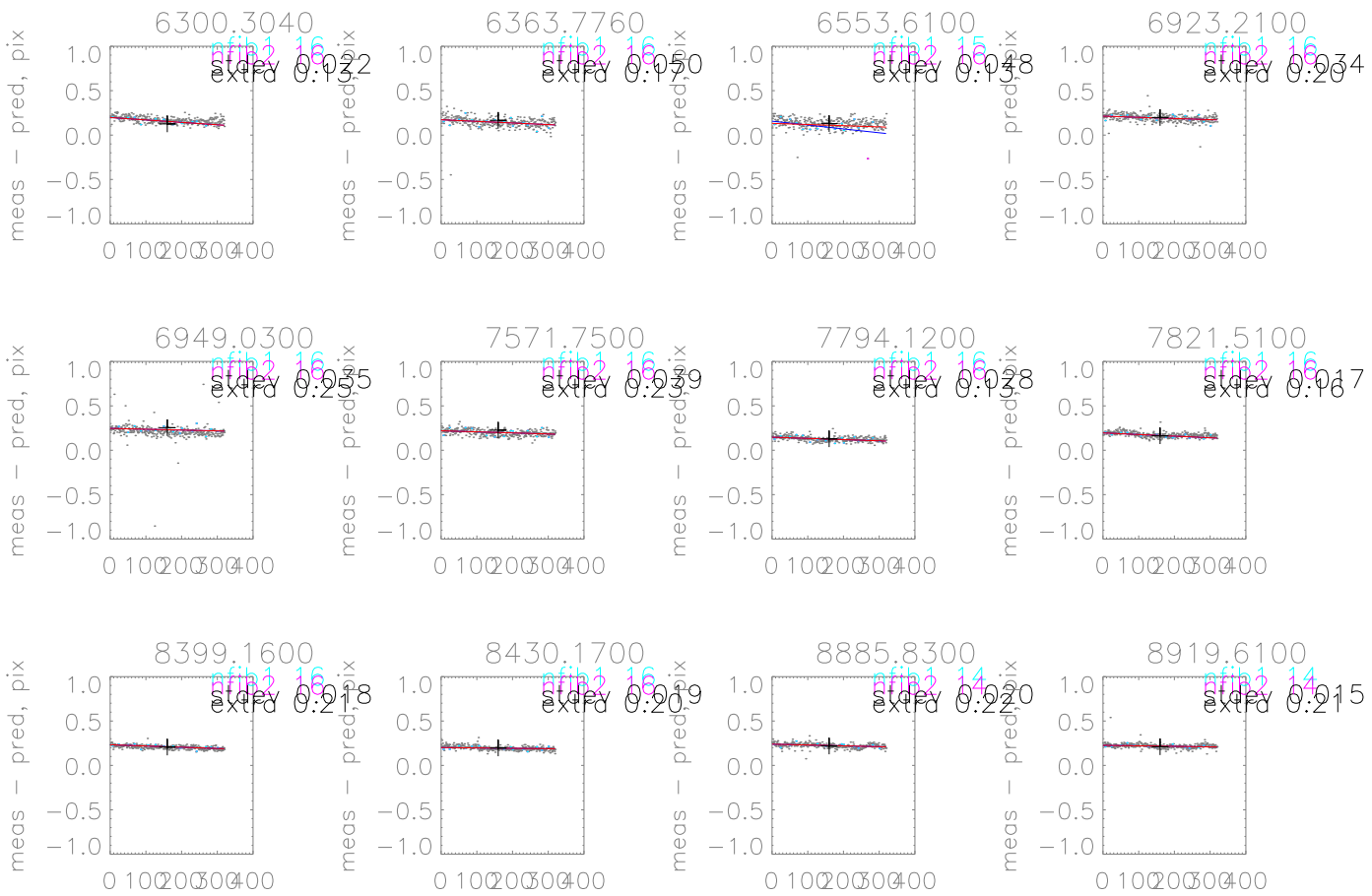

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

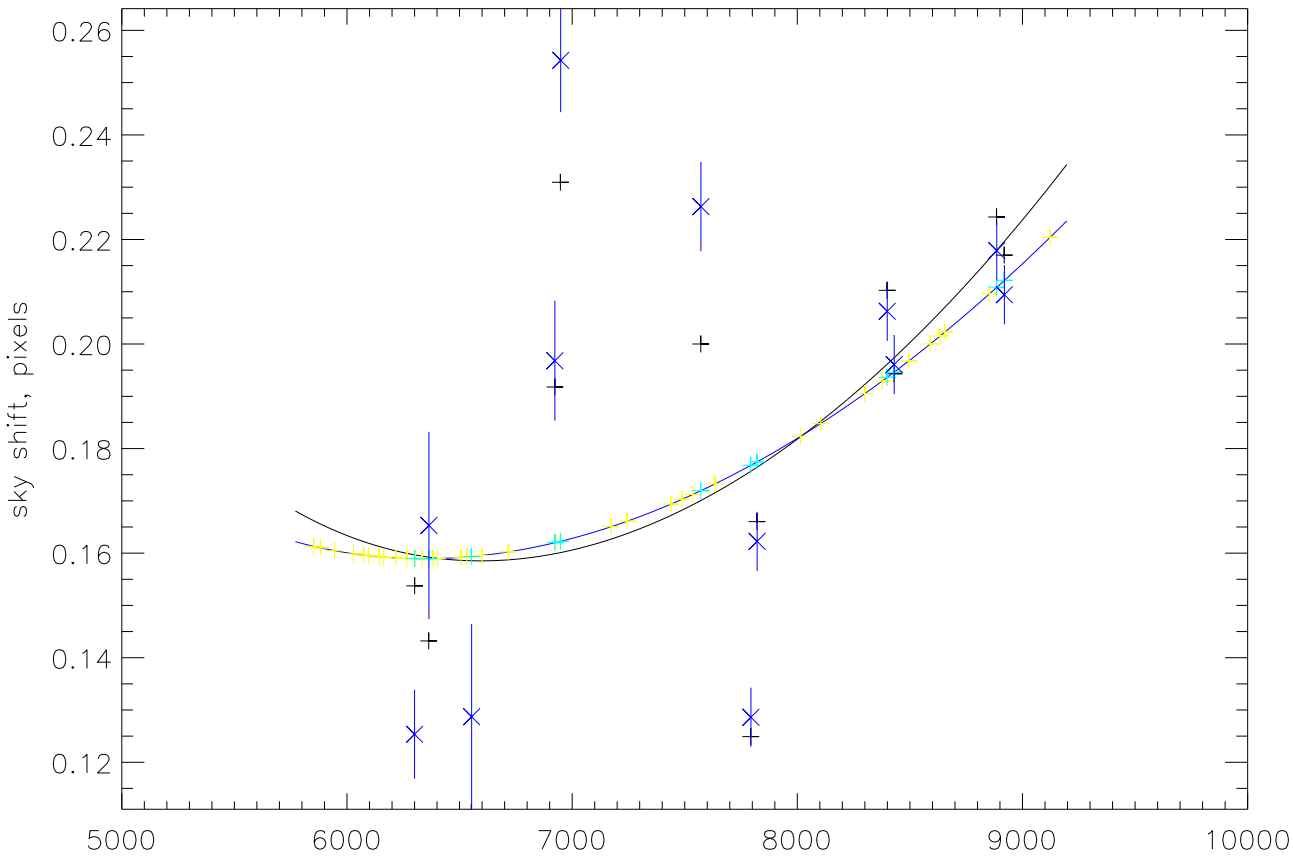

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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

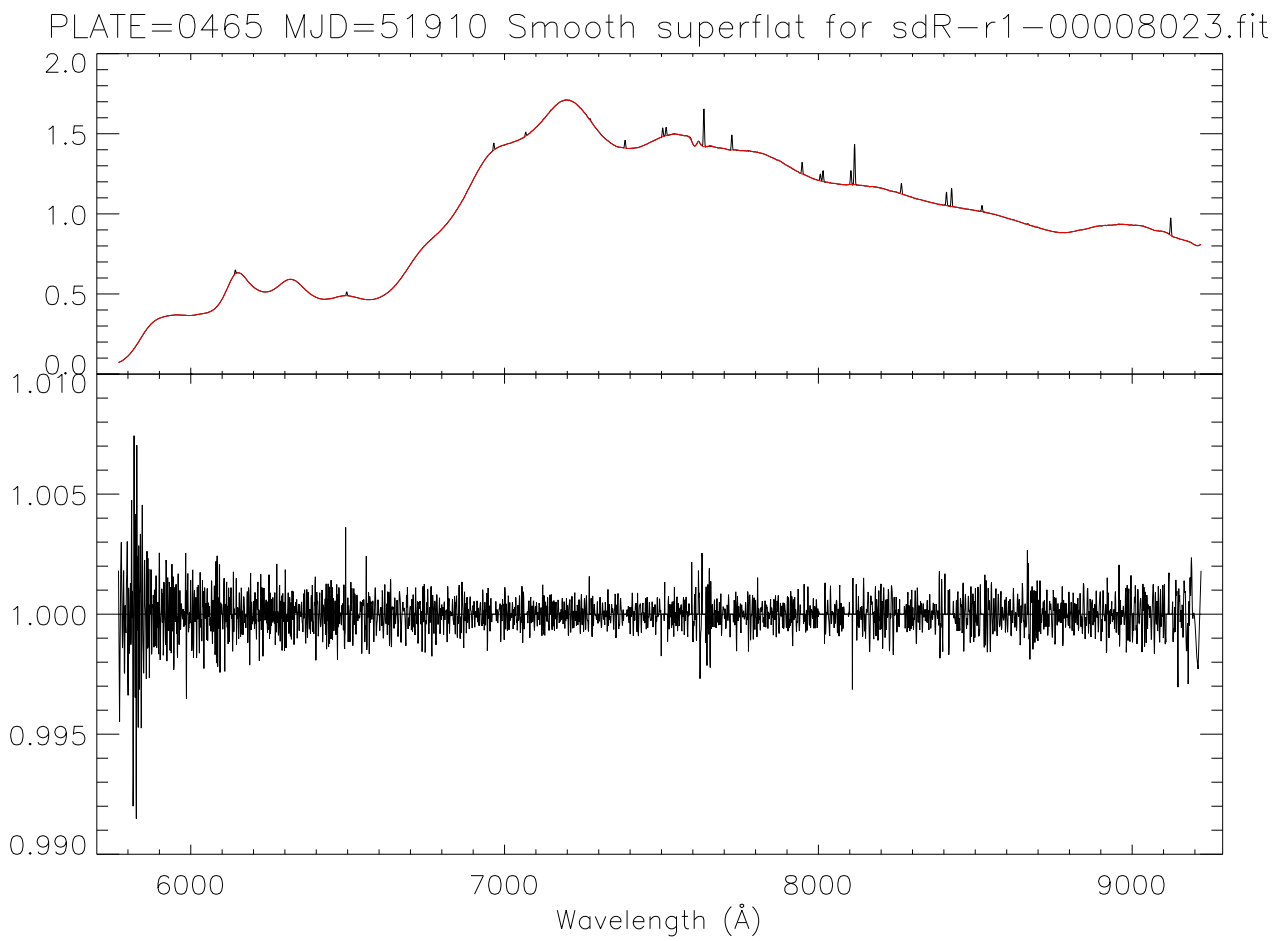

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

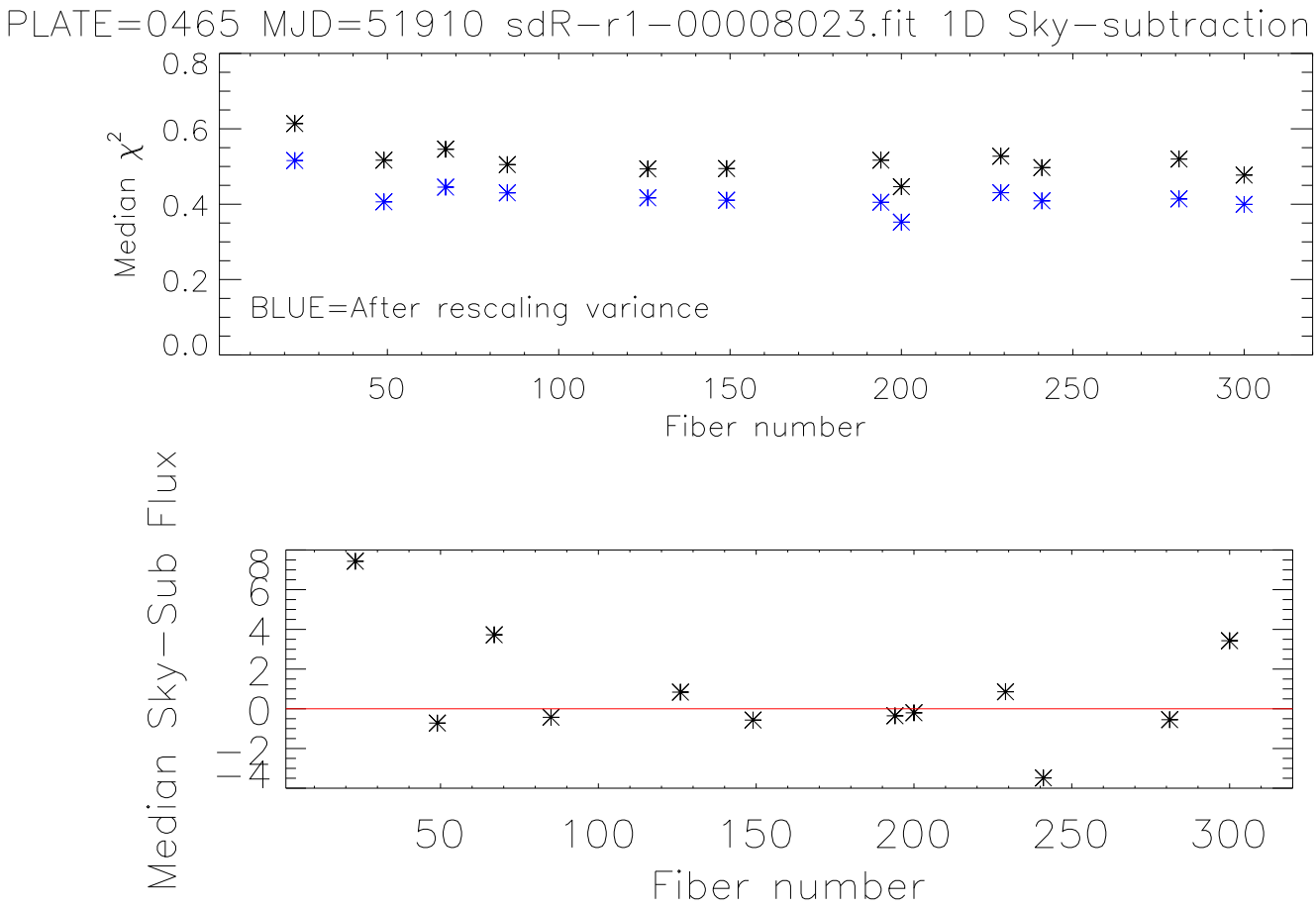

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


6300.3040
mfib1 16
mfib2 16
stdev 0.022
extra 0.132
6363.7760
mfib1 16
mfib2 16
stdev 0.050
extra 0.170
6553.6100
mfib1 15
mfib2 16
stdev 0.048
extra 0.138
6923.2100
mfib1 16
mfib2 16
stdev 0.034
extra 0.200
6949.0300
mfib1 16
mfib2 16
stdev 0.035
extra 0.255
7571.7500
mfib1 16
mfib2 16
stdev 0.039
extra 0.239
7794.1200
mfib1 16
mfib2 16
stdev 0.028
extra 0.138
7821.5100
mfib1 16
mfib2 16
stdev 0.017
extra 0.160
8399.1600
mfib1 16
mfib2 16
stdev 0.018
extra 0.218
8430.1700
mfib1 16
mfib2 16
stdev 0.019
extra 0.209
8885.8300
mfib1 14
mfib2 14
stdev 0.020
extra 0.222
8919.6100
mfib1 14
mfib2 14
stdev 0.015
extra 0.211
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

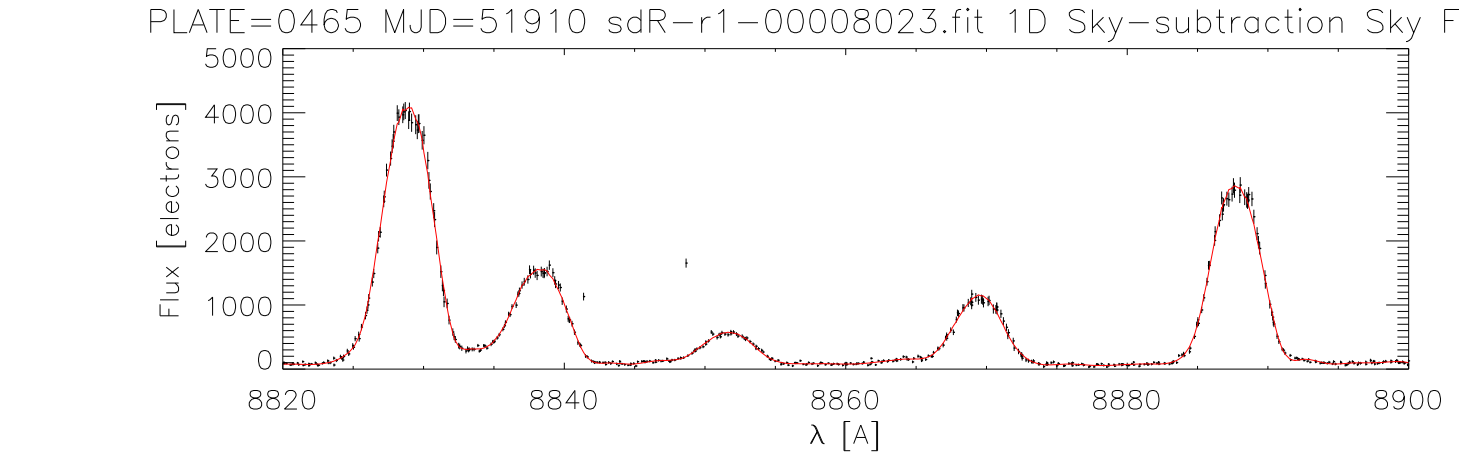

0.26
0.24
0.22
0.20
0.18
0.16
0.14
0.12
sky shift, pixels
5000
6000
7000
8000
9000
10000

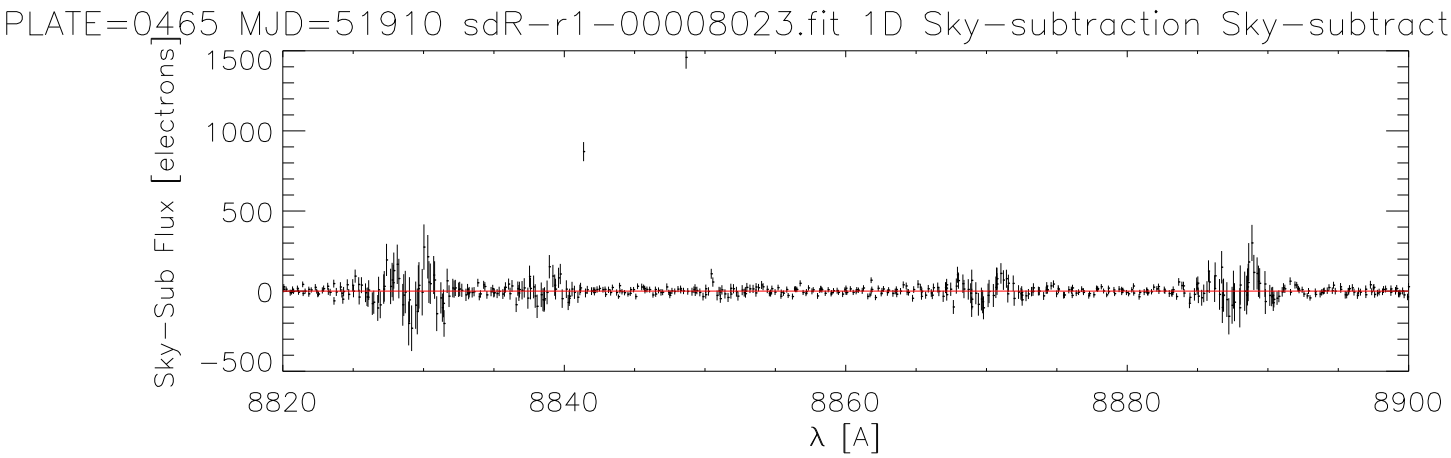
es= 0.0000

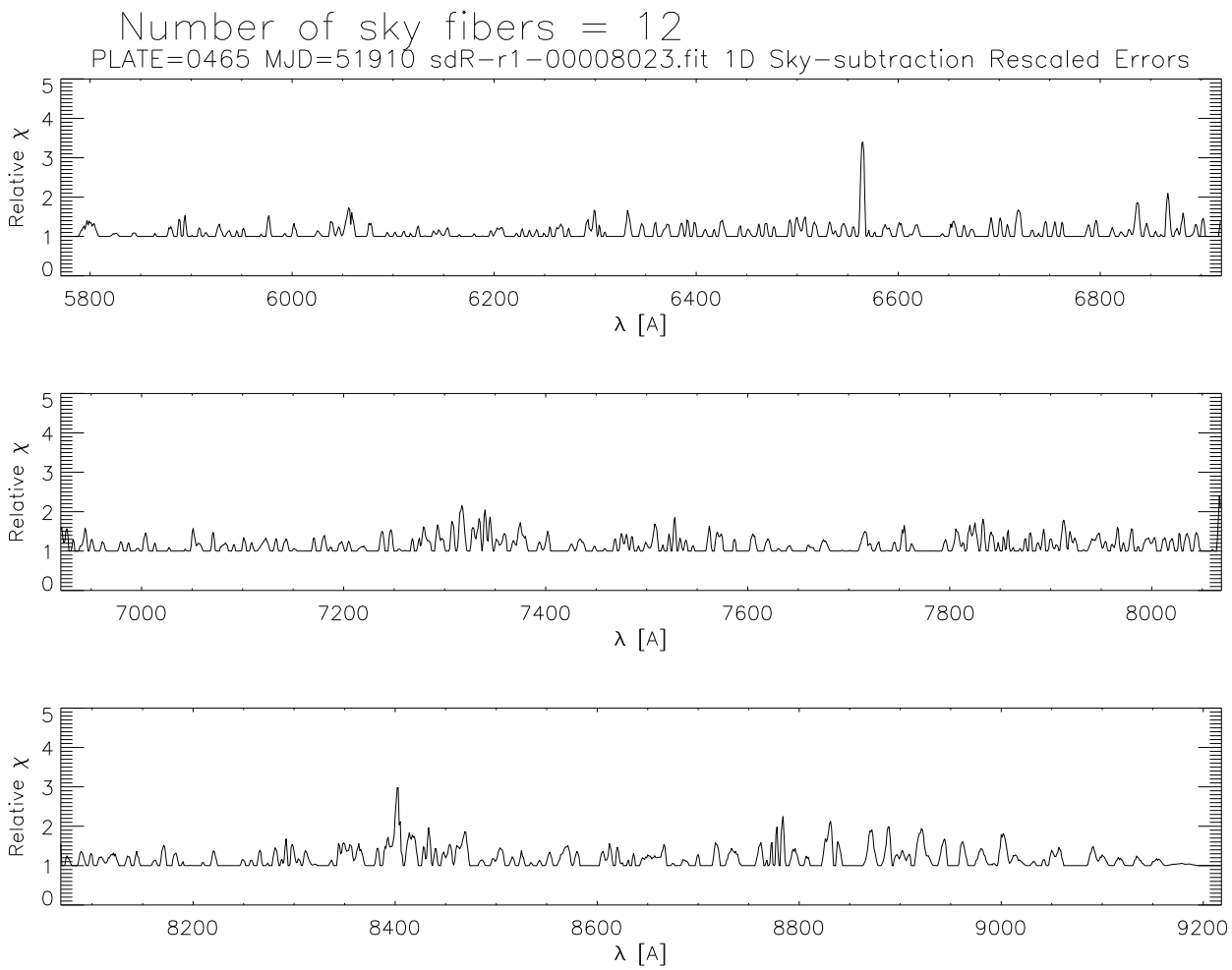

PLATE=0465 MJD=51910 Smooth superflat for sdR-r1-00008023.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

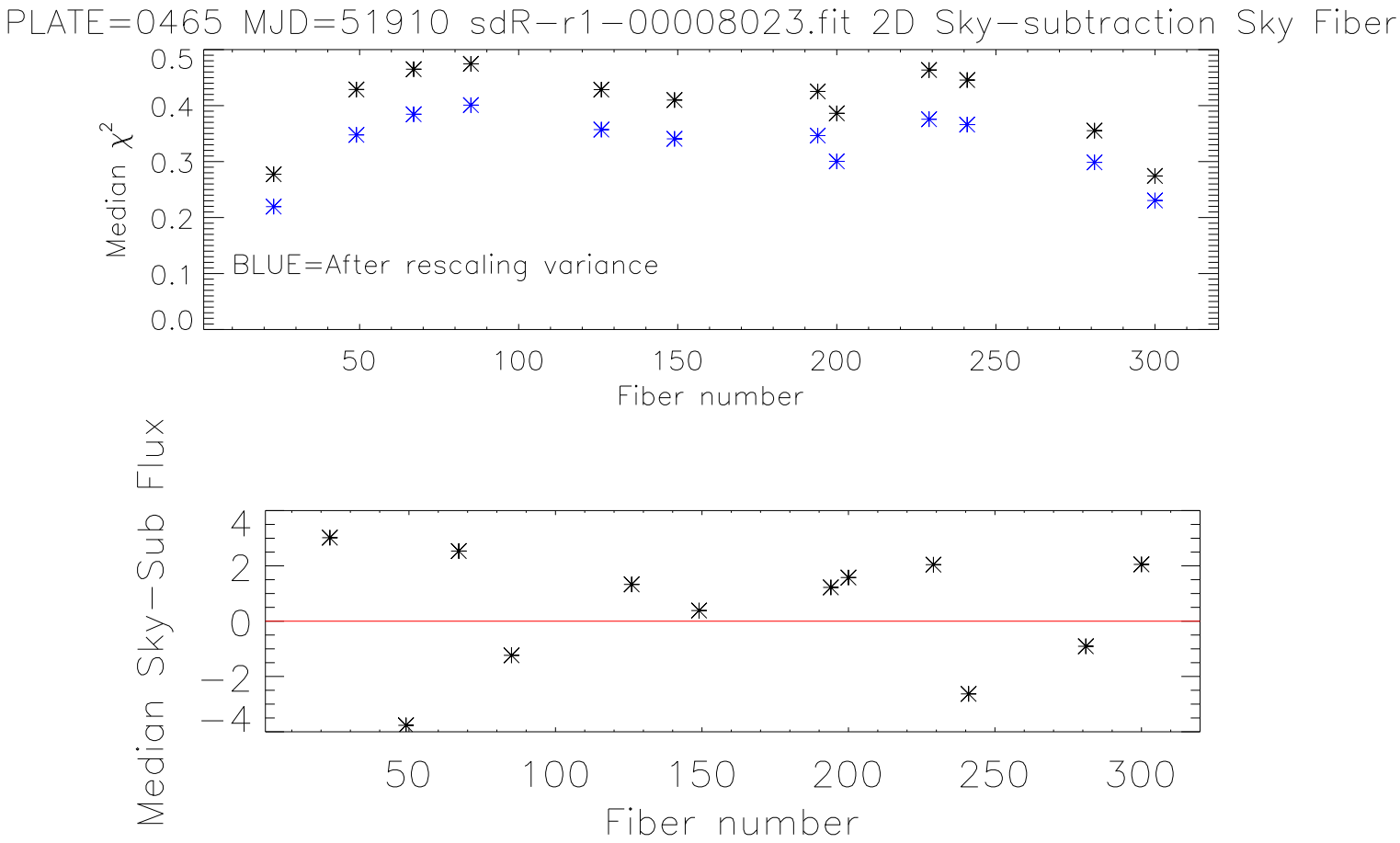

PLATE=0465 MJD=51910 sdR-r1-00008023.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

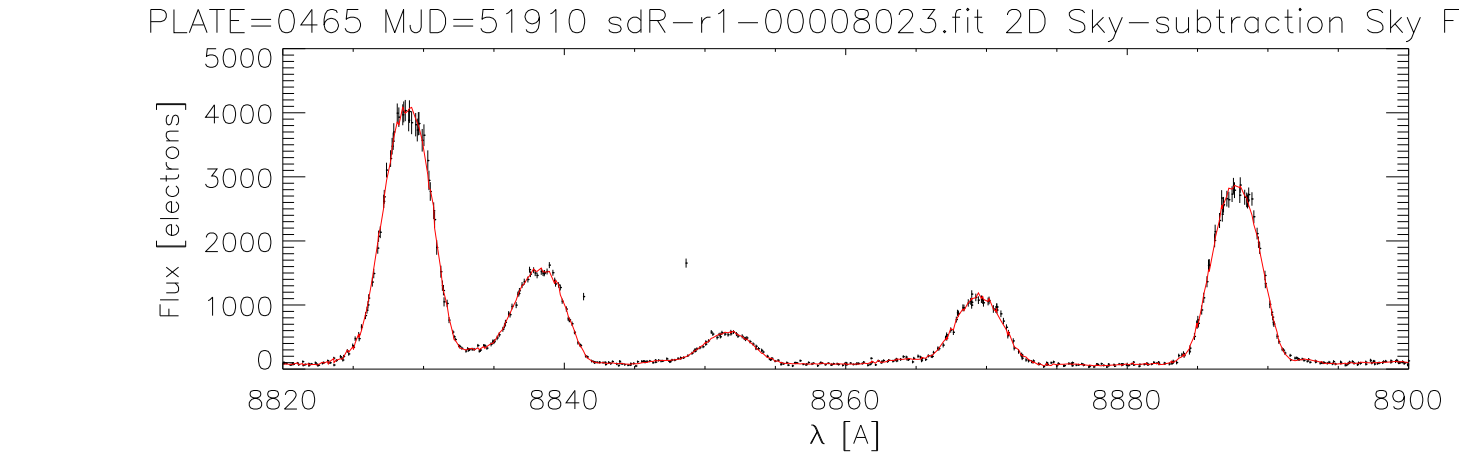
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

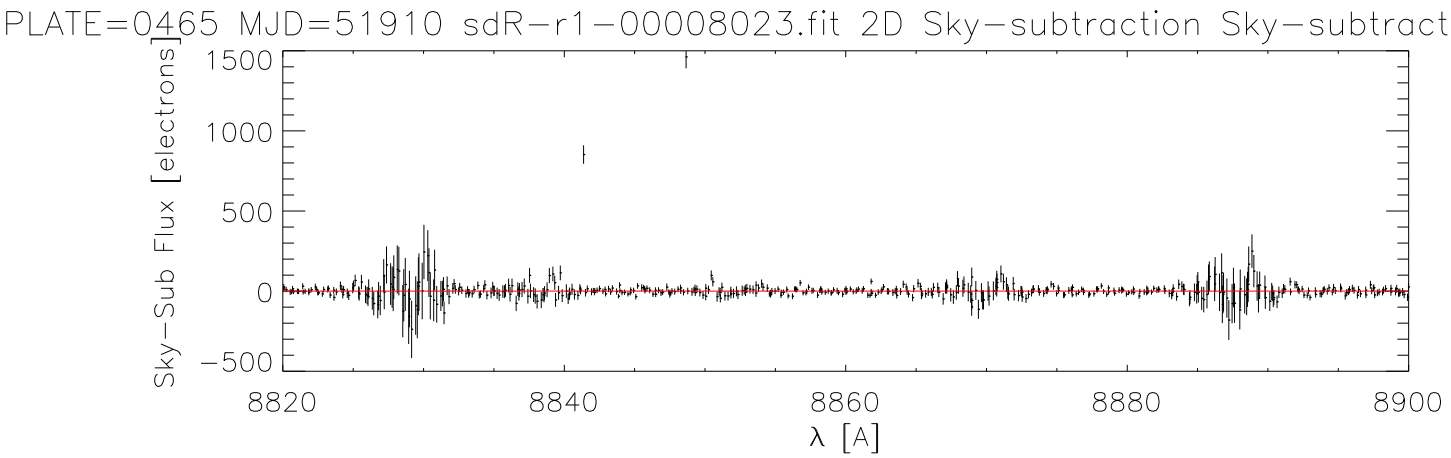

PLATE=0465 MJD=51910 sdR-r1-00008023.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

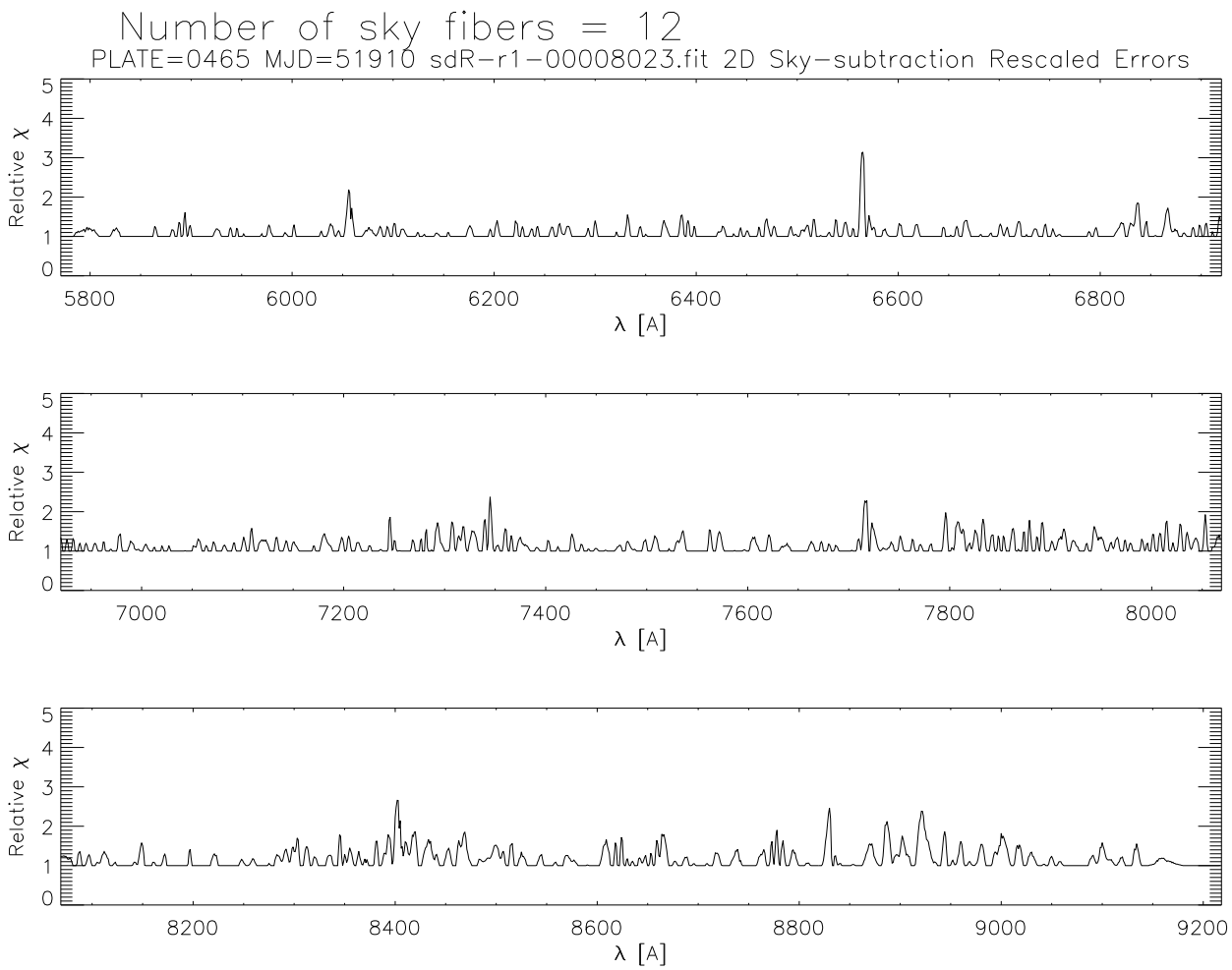

PLATE=0465 MJD=51910 sdR-r1-00008023.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

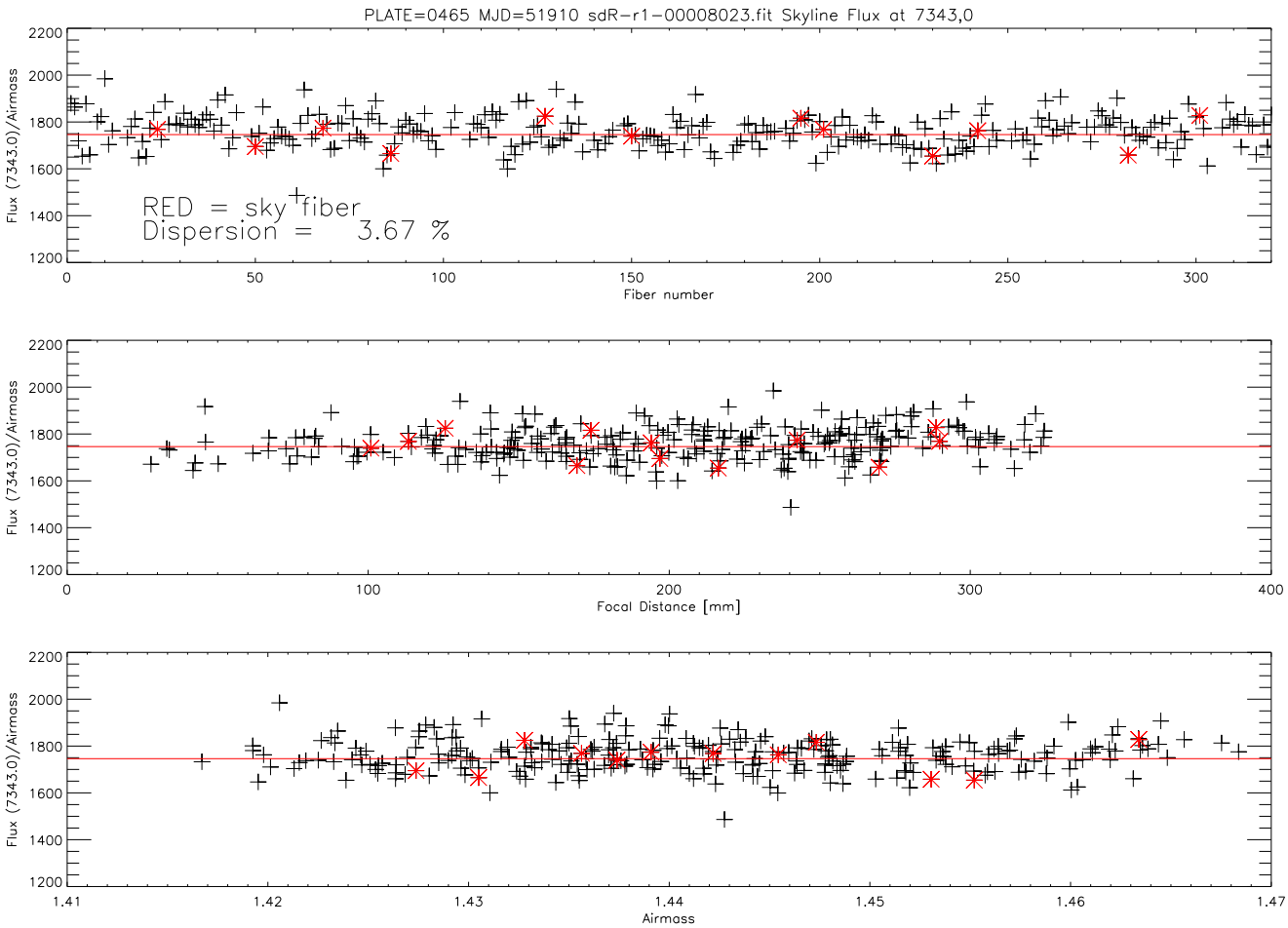

Number of sky fibers = 12
PLATE=0465 MJD=51910 sdR-r1-00008023.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

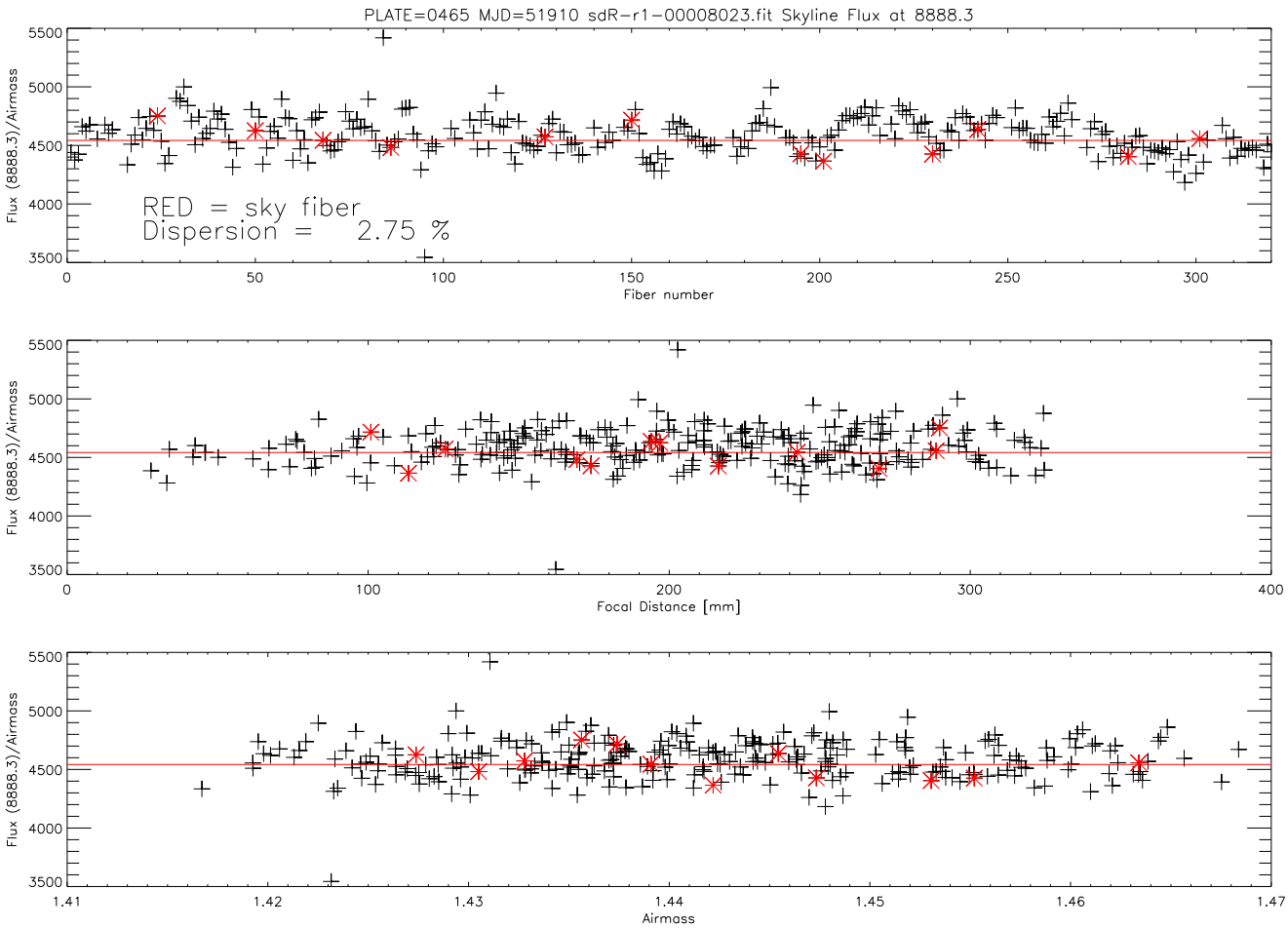

PLATE=0465 MJD=51910 sdR-r1-00008023.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

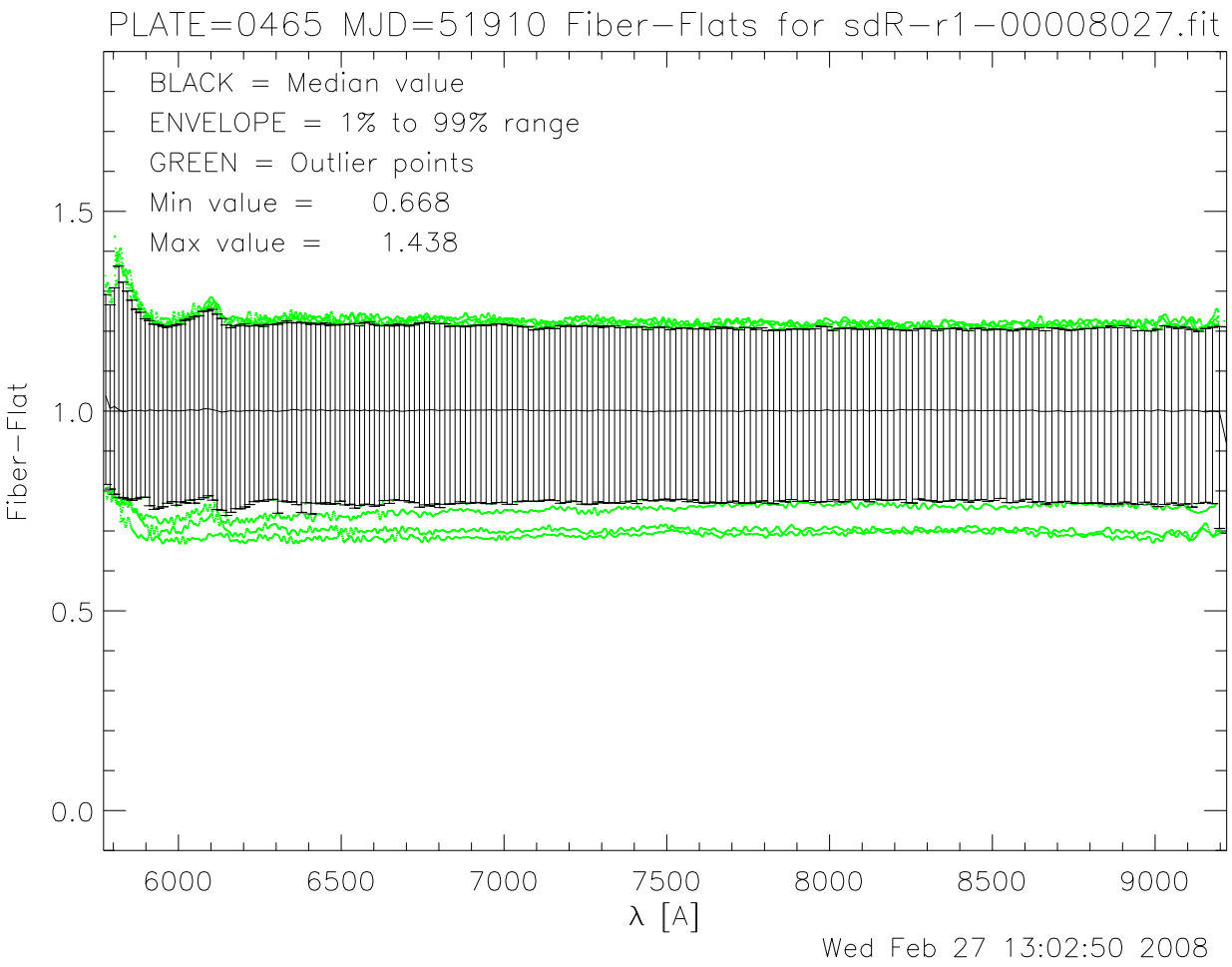

PLATE=0465 MJD=51910 sdR-r1-00008023.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

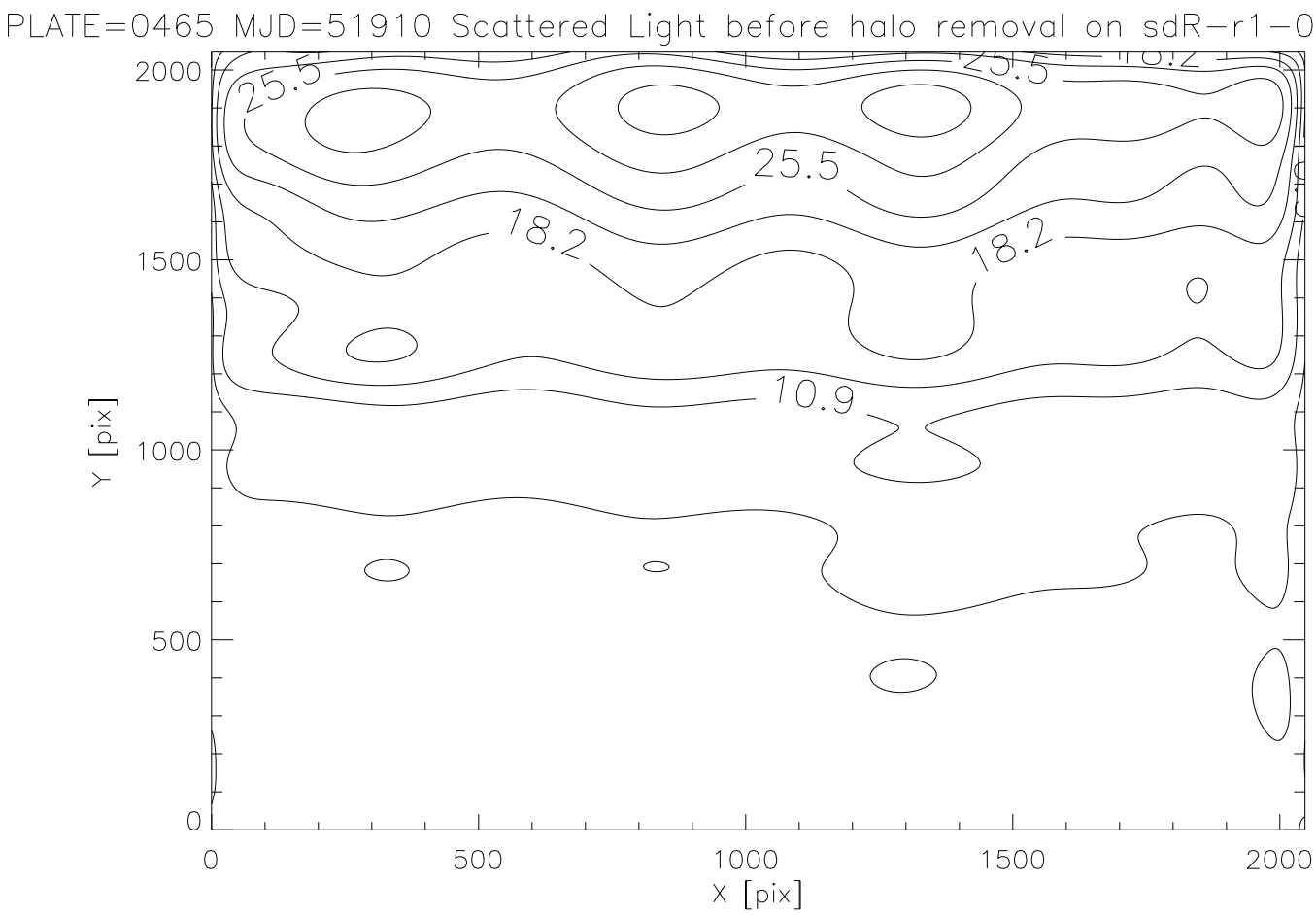

PLATE=0465 MJD=51910 sdR-r1-00008023.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

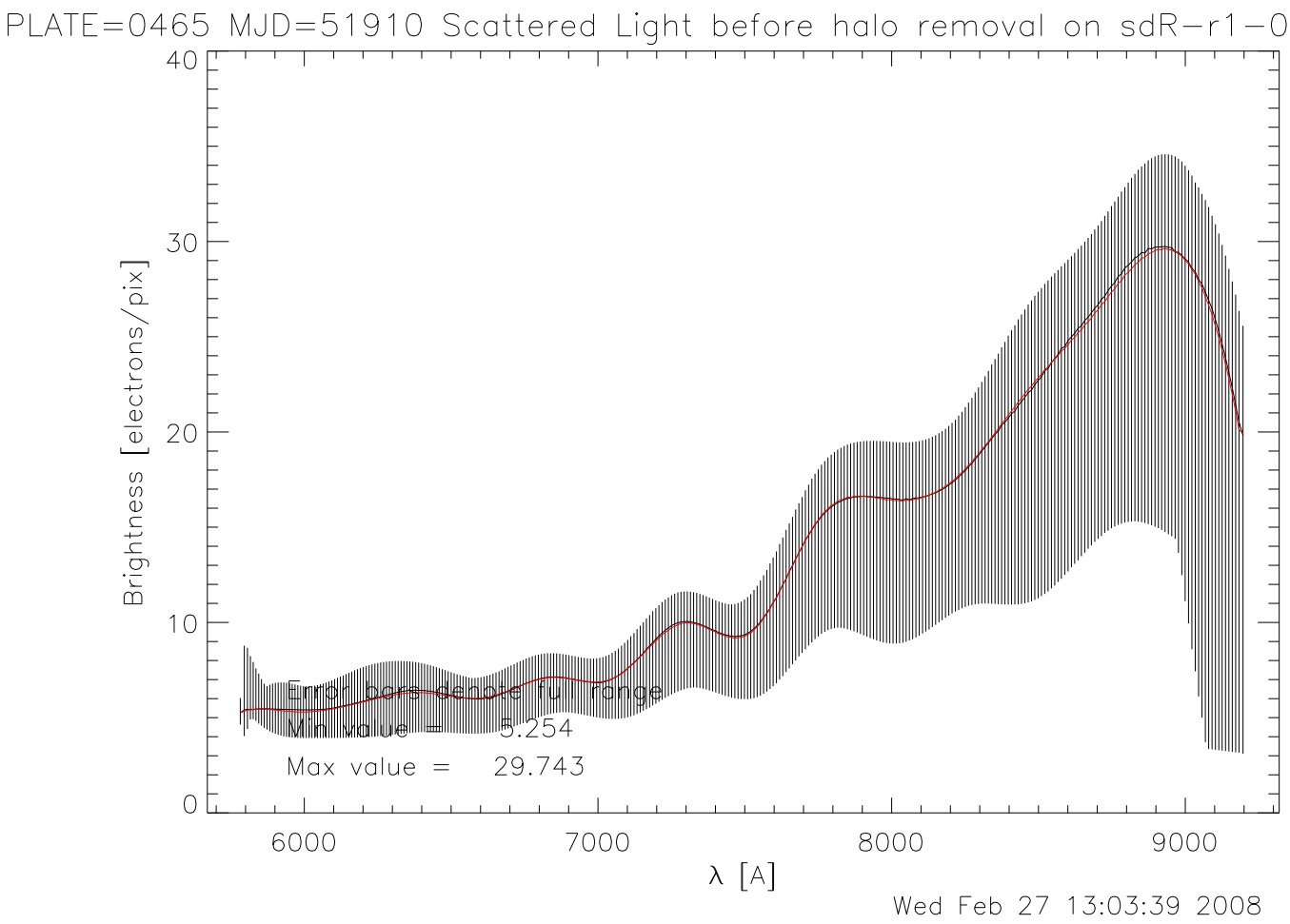

Number of sky fibers = 12
PLATE=0465 MJD=51910 sdR-r1-00008023.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

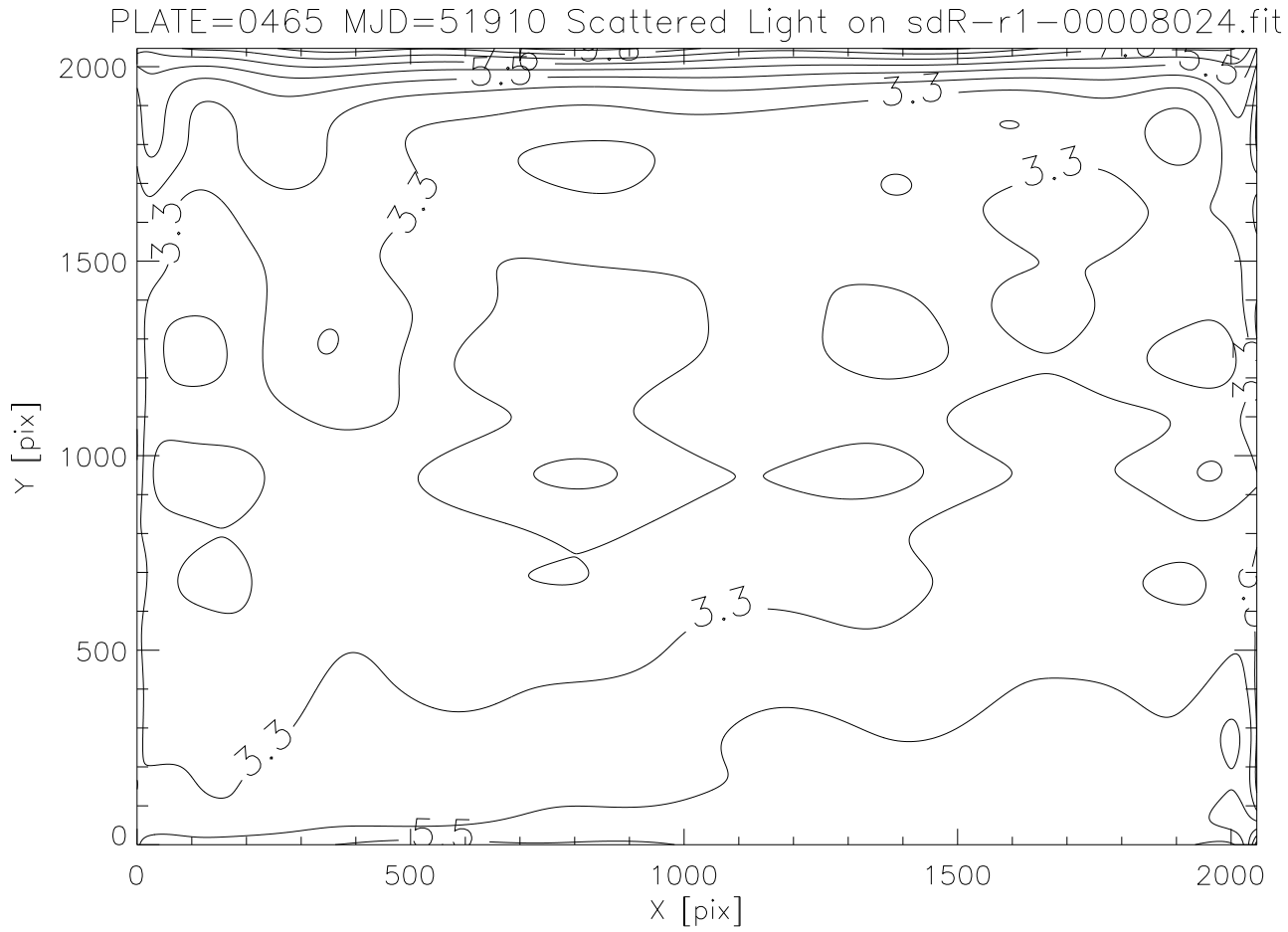

PLATE=0465 MJD=51910 sdR-r1-00008023.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.67 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

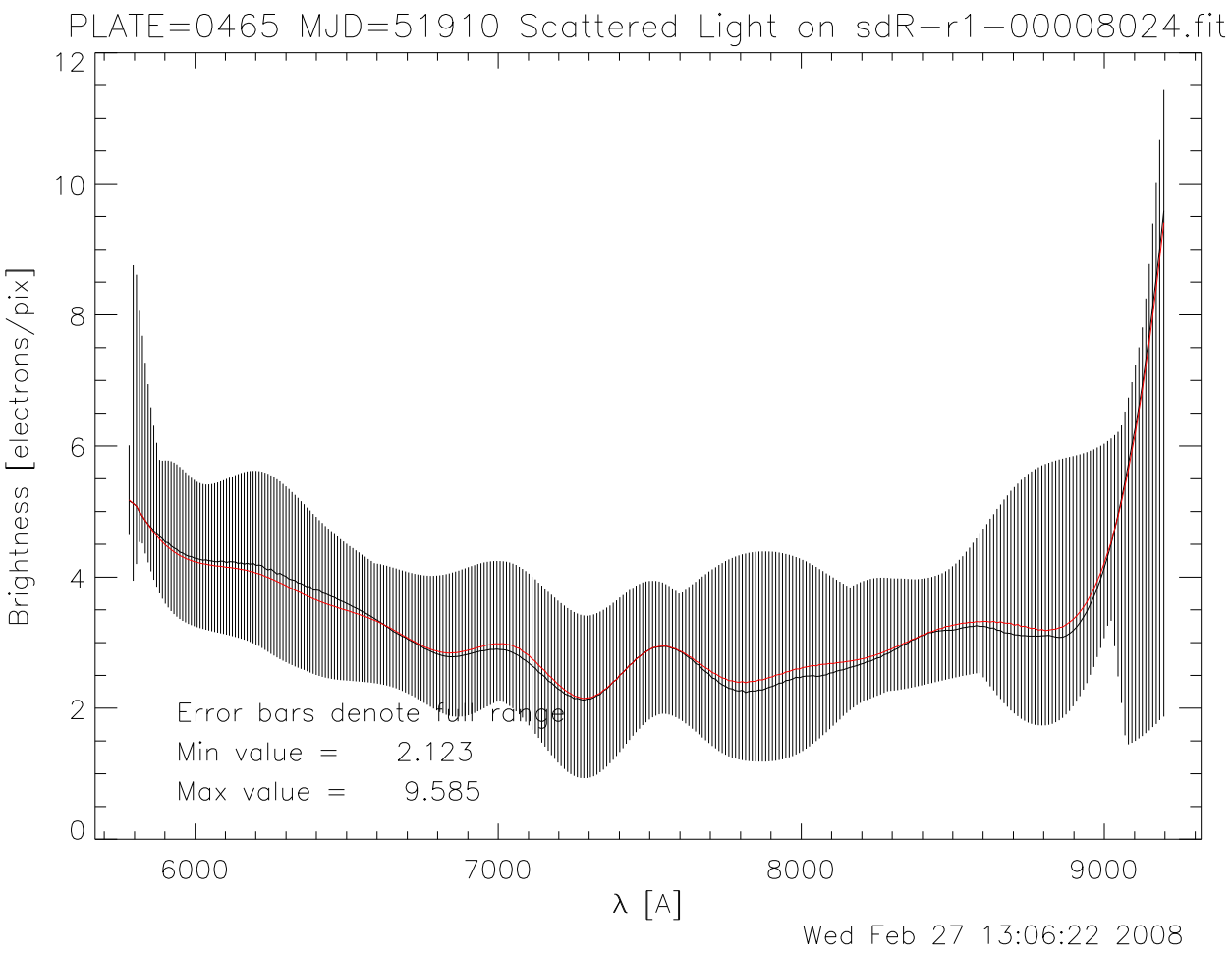

PLATE=0465 MJD=51910 sdR-r1-00008023.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.75 %
Fiber number
Focal Distance [mm]
Airmass

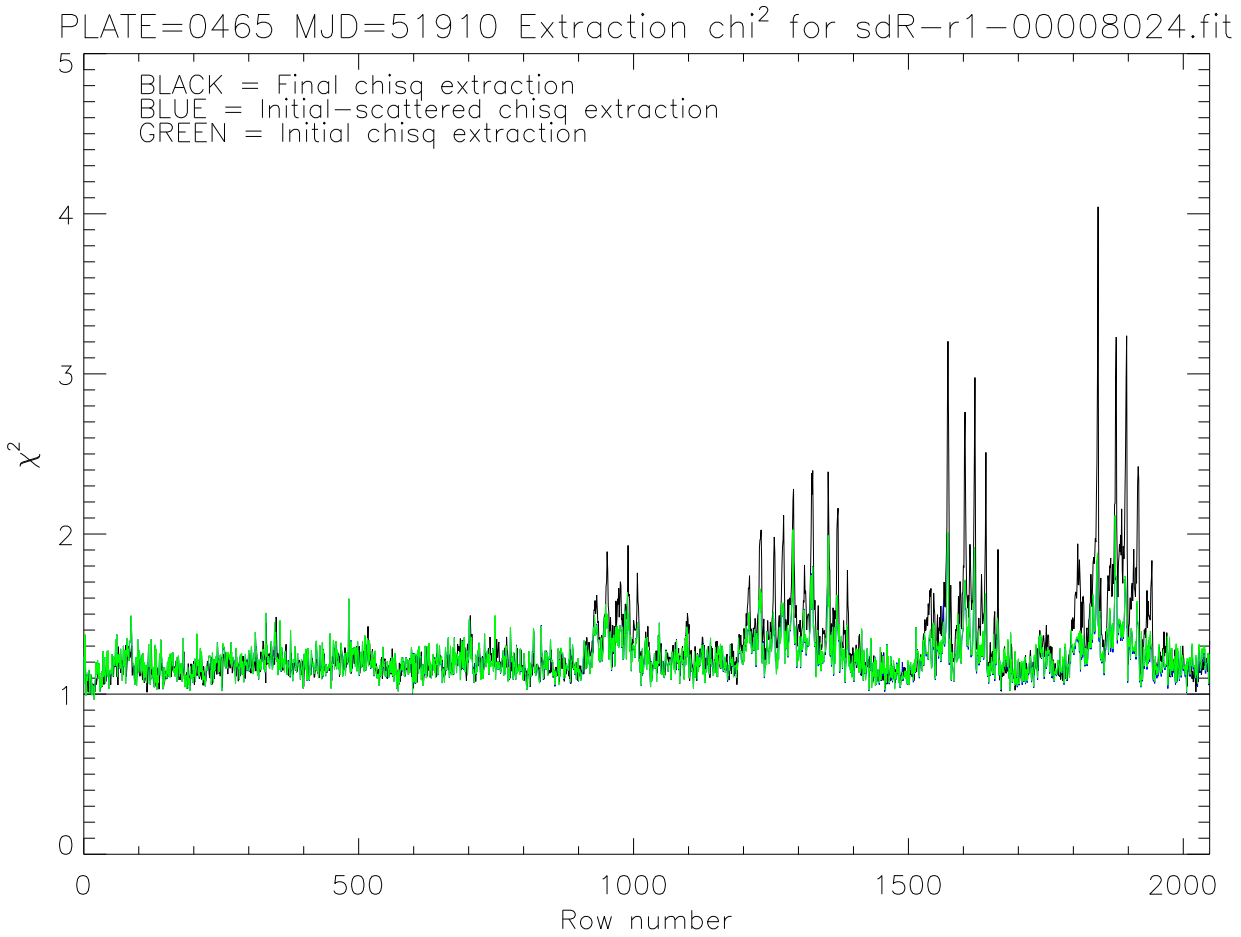

PLATE=0465 MJD=51910 Fiber−Flats for sdR−r1−00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.668
Max value = 1.438
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 13:02:50 2008

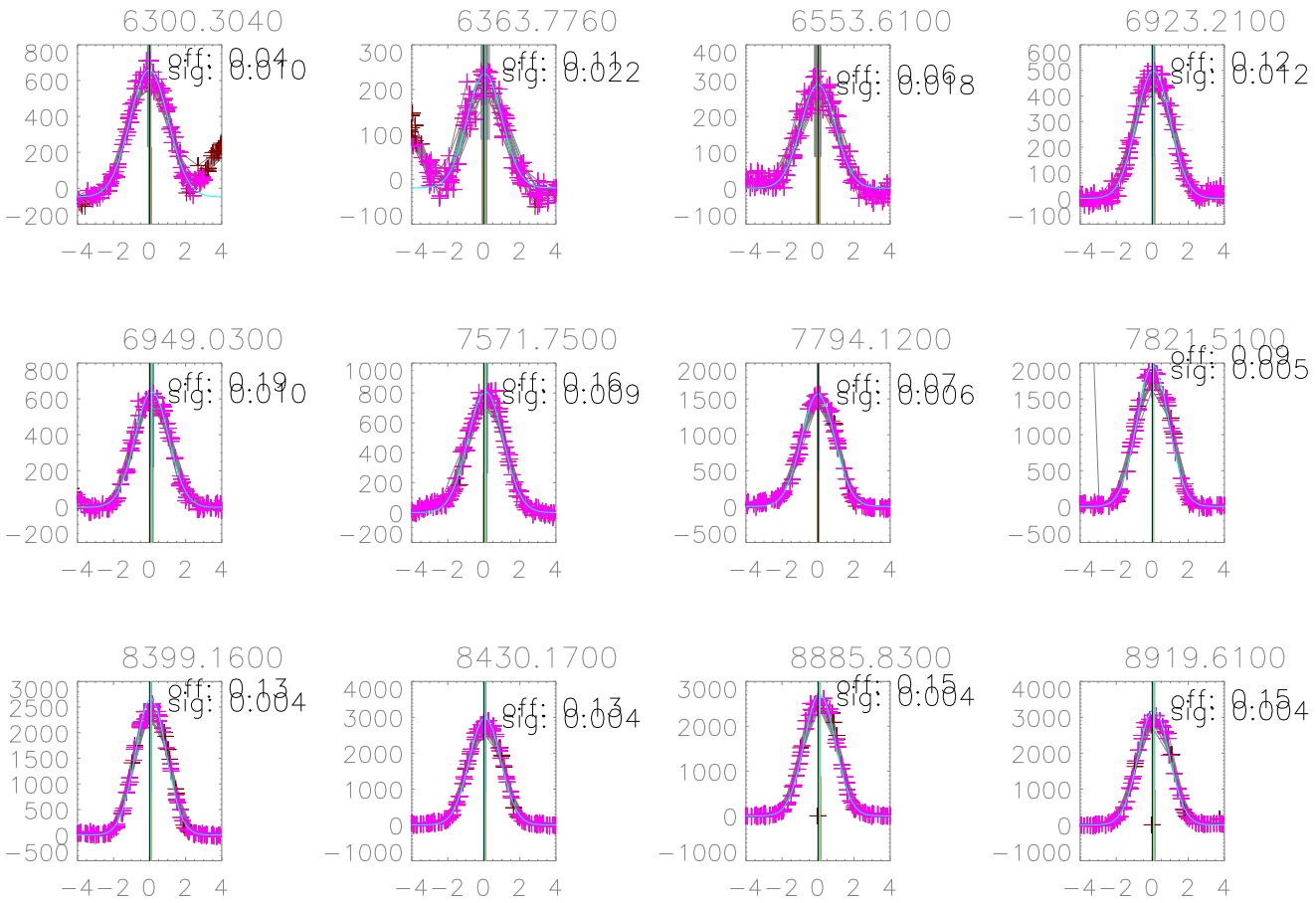

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR−r1−00008024.fi
25.5
25.5
25.5
18.2
18.2
0
10.9
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

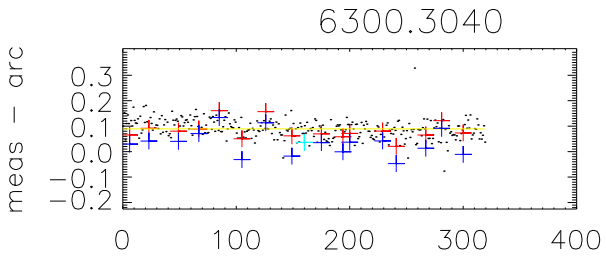

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r1-00008024.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.254
Max value = 29.743
Wed Feb 27 13:03:39 2008

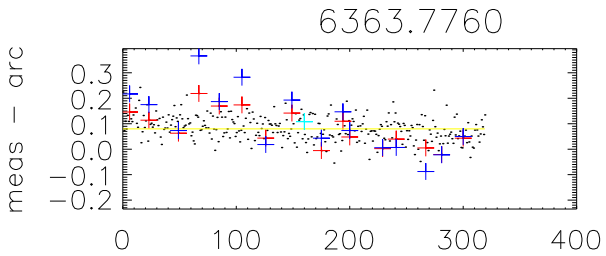

PLATE=0465 MJD=51910 Scattered Light on sdR-r1-00008024.fit
5.5
3.3
3.3
3.3
3.3
3.3
5.5
Y [pix]
X [pix]
0
500
1000
1500
2000

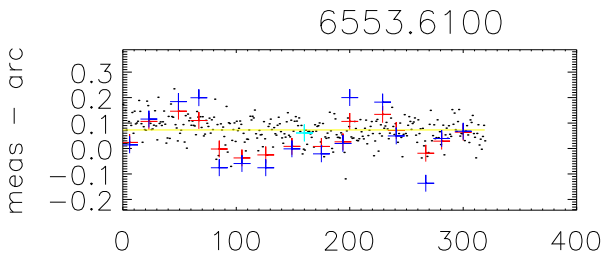

PLATE=0465 MJD=51910 Scattered Light on sdR-r1-00008024.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.123
Max value = 9.585
Wed Feb 27 13:06:22 2008

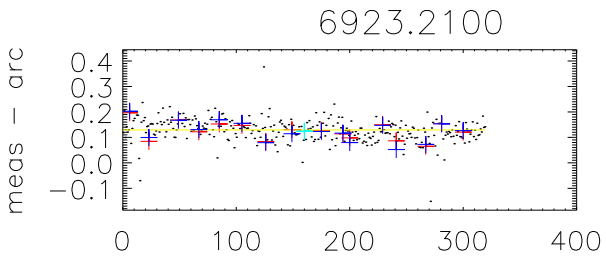

PLATE=0465 MJD=51910 Extraction chi^2 for sdR−r1−00008024.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

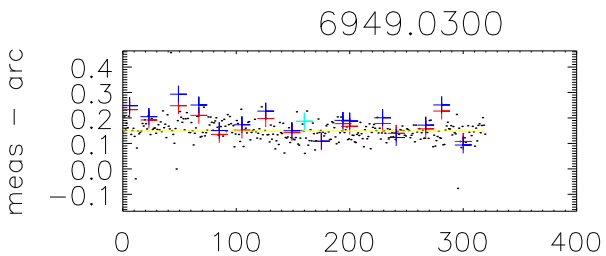

6300.3040
off: 0.04
sig: 0.010
6363.7760
off: 0.11
sig: 0.022
6553.6100
off: 0.06
sig: 0.018
6923.2100
off: 0.12
sig: 0.012
6949.0300
off: 0.19
sig: 0.010
7571.7500
off: 0.16
sig: 0.009
7794.1200
off: 0.07
sig: 0.006
7821.5100
off: 0.09
sig: 0.005
8399.1600
off: 0.13
sig: 0.004
8430.1700
off: 0.13
sig: 0.004
8885.8300
off: 0.15
sig: 0.004
8919.6100
off: 0.15
sig: 0.004

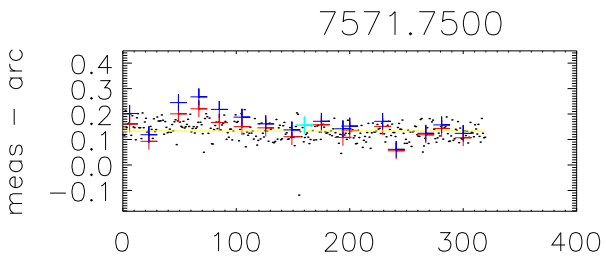

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

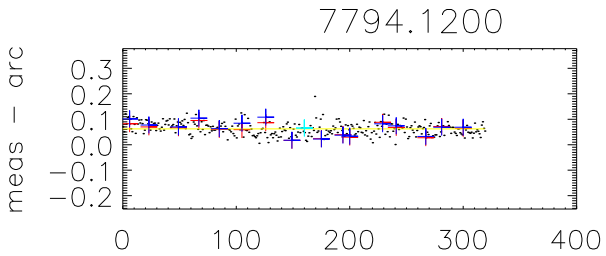

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

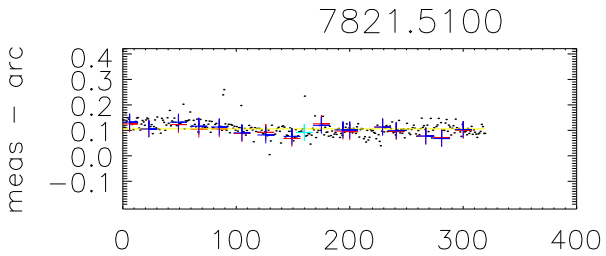

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

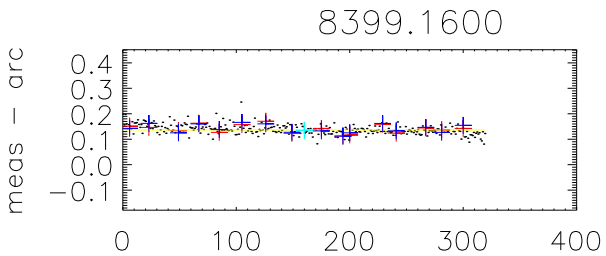

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

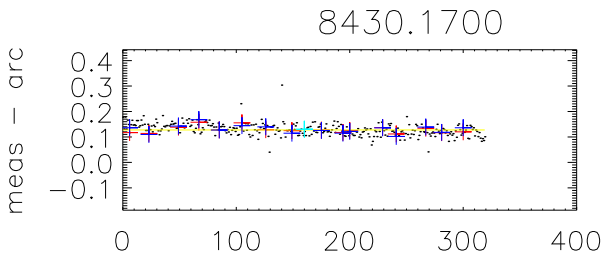

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

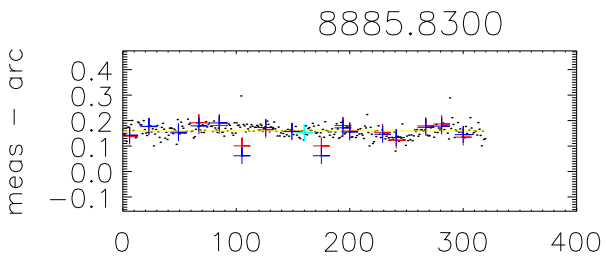

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

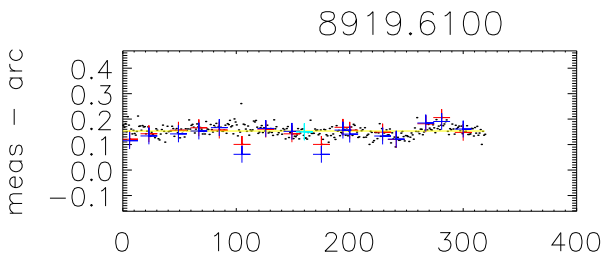

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

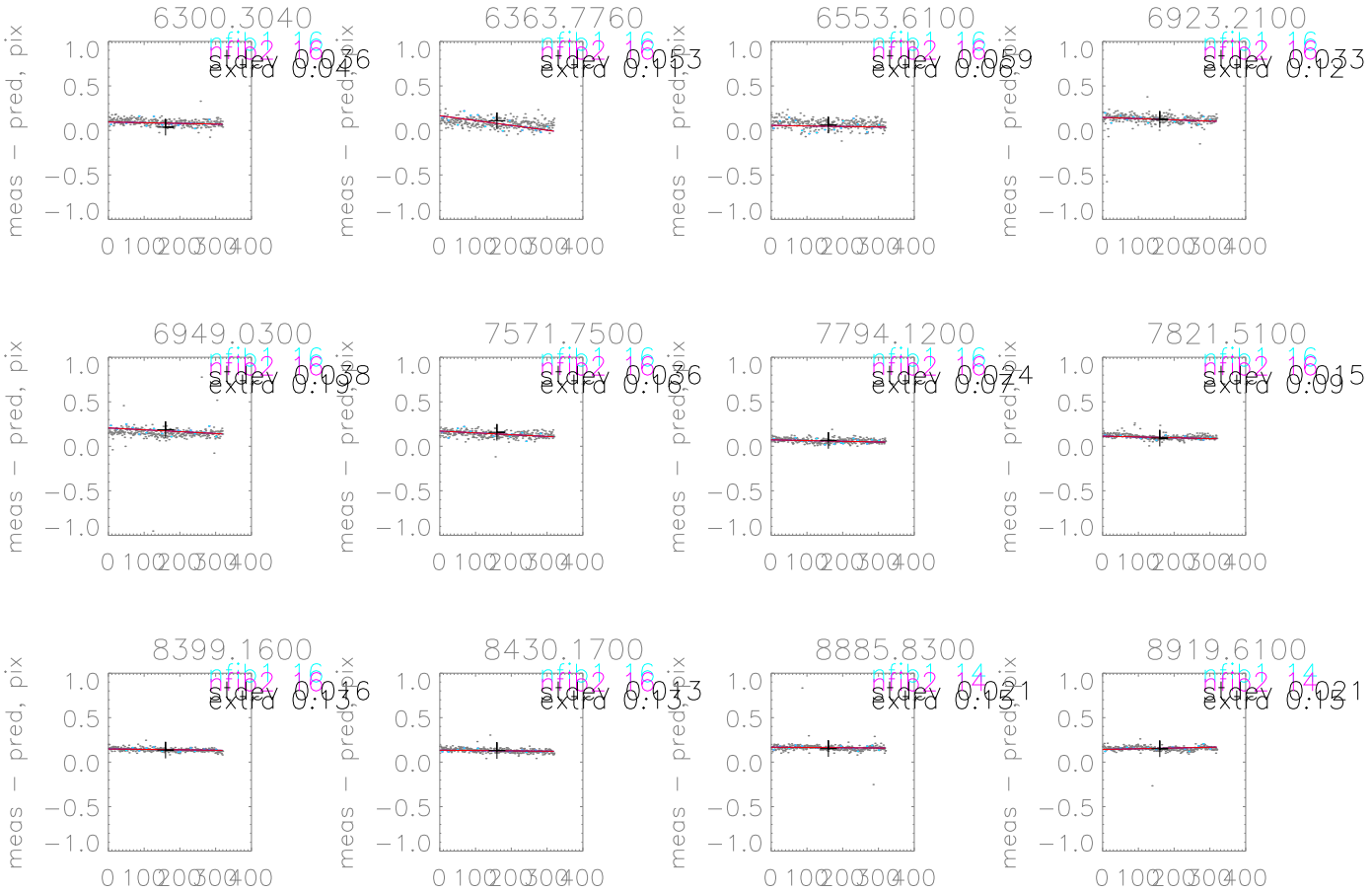

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

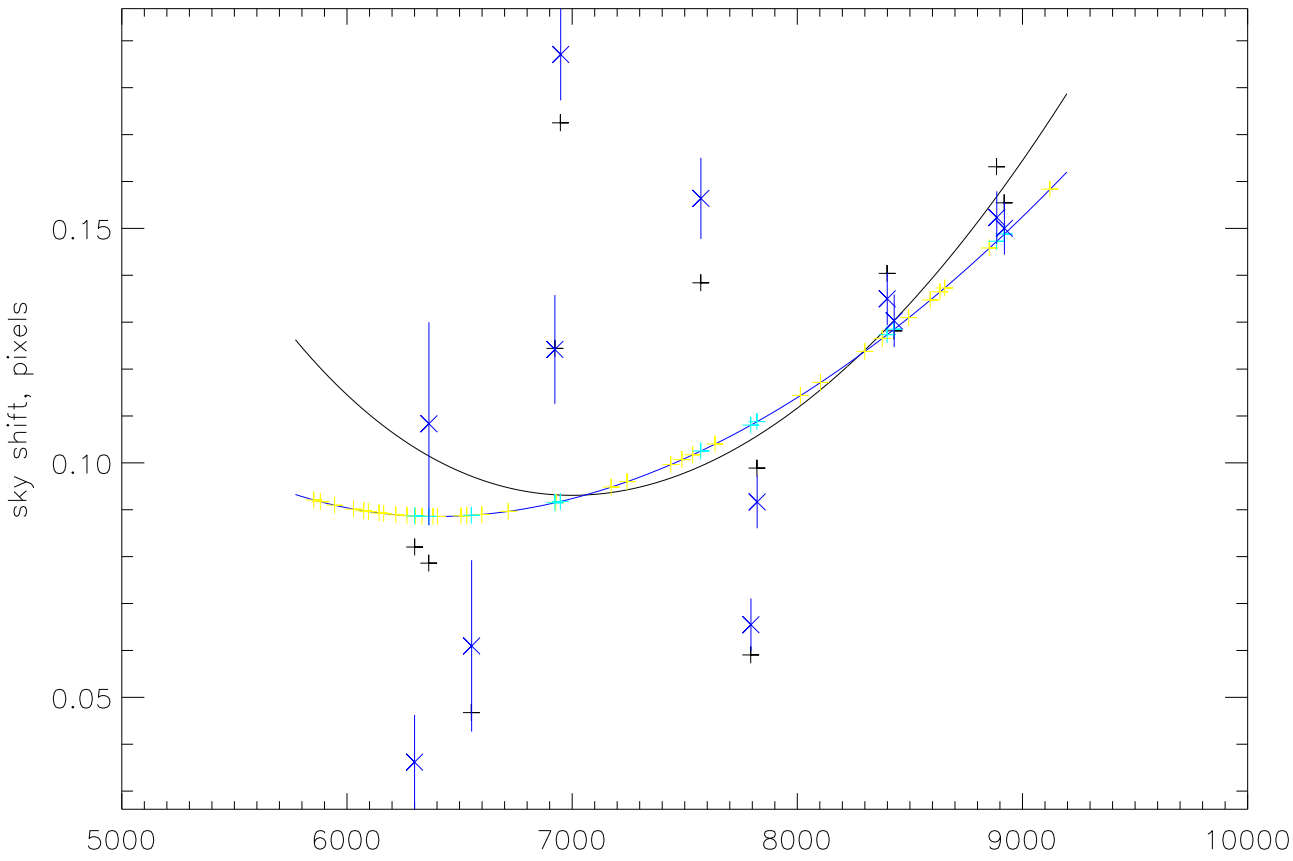

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

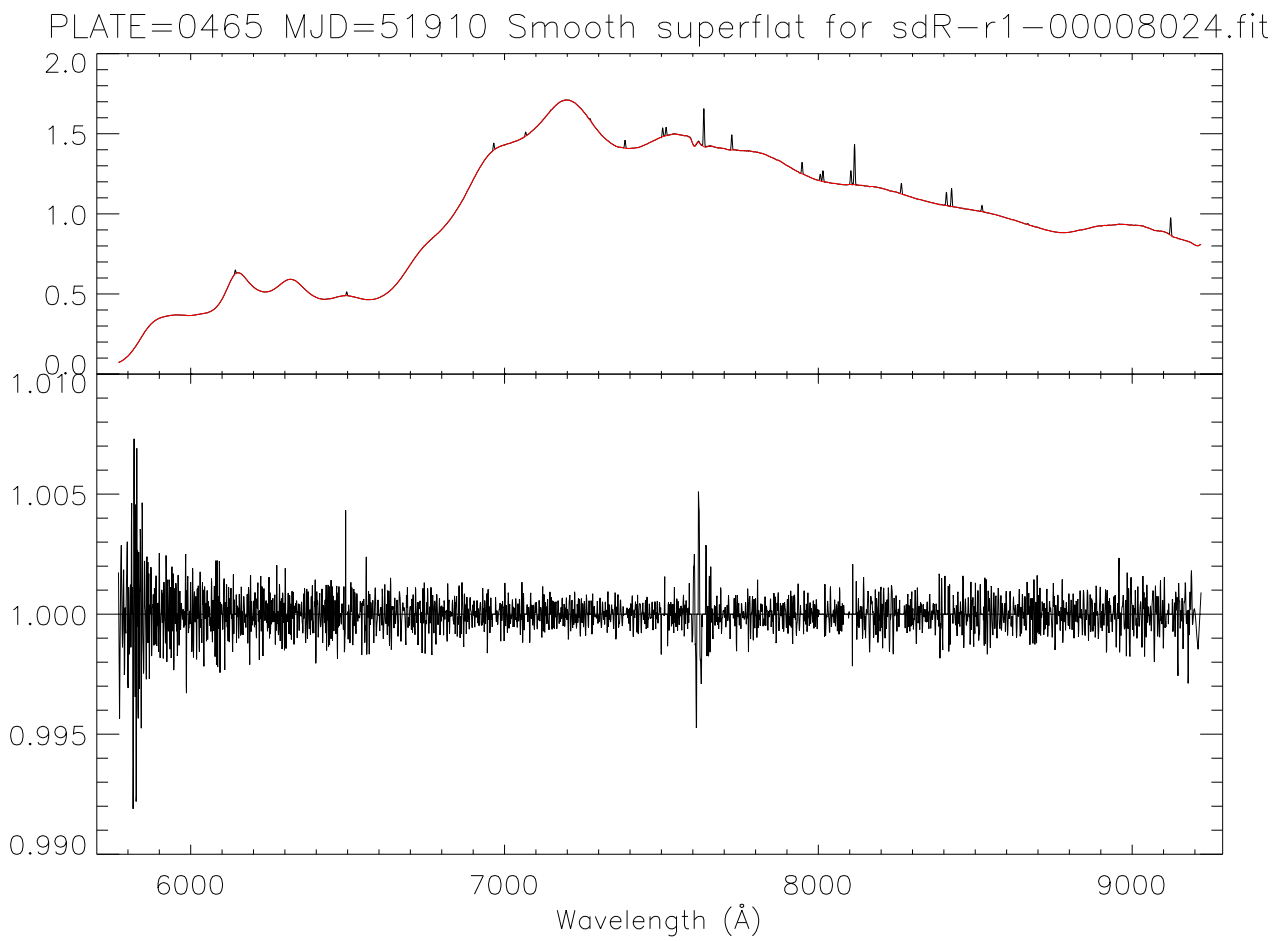

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

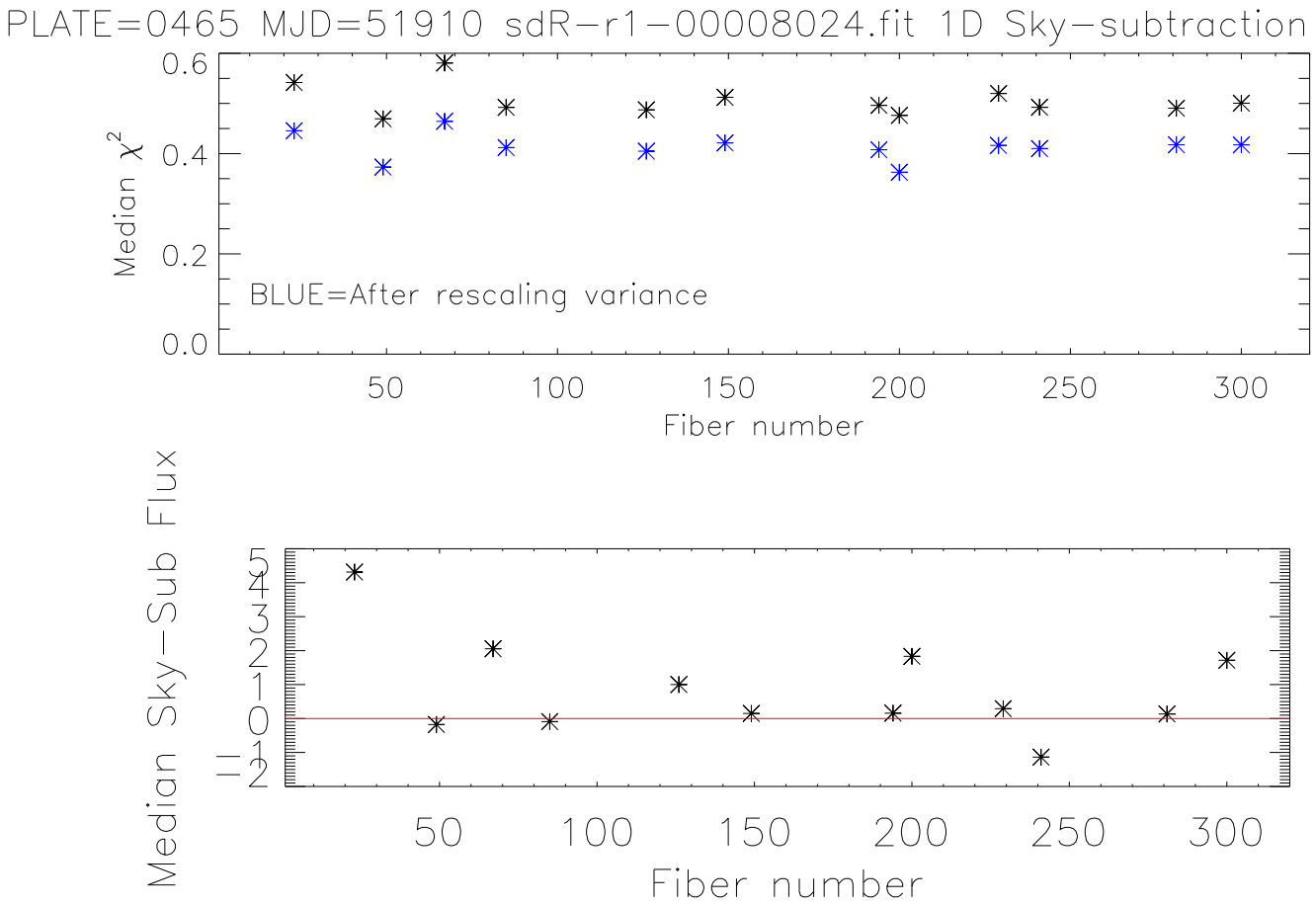

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

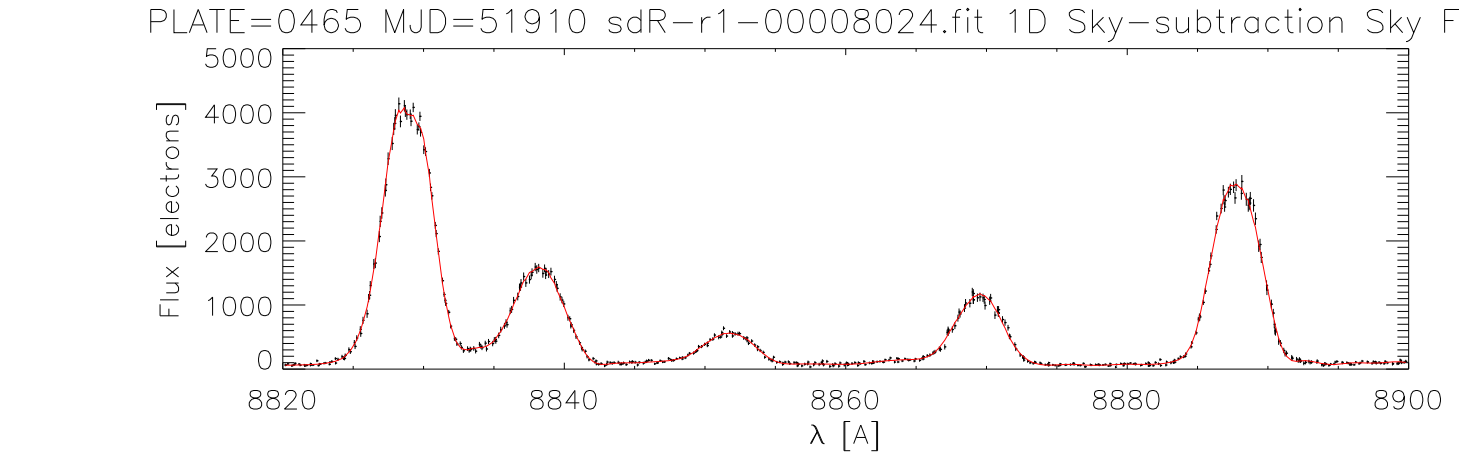

6300.3040
mfhd2 16
stdev 0.036
extra 0.04
6363.7760
mfhd2 16
stdev 0.053
extra 0.11
6553.6100
mfhd2 16
stdev 0.059
extra 0.06
6923.2100
mfhd2 16
stdev 0.033
extra 0.12
6949.0300
mfhd2 16
stdev 0.038
extra 0.19
7571.7500
mfhd2 16
stdev 0.036
extra 0.16
7794.1200
mfhd2 16
stdev 0.074
extra 0.07
7821.5100
mfhd2 16
stdev 0.015
extra 0.09
8399.1600
mfhd2 16
stdev 0.036
extra 0.13
8430.1700
mfhd2 16
stdev 0.043
extra 0.13
8885.8300
mfhd2 14
stdev 0.021
extra 0.13
8919.6100
mfhd2 14
stdev 0.021
extra 0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

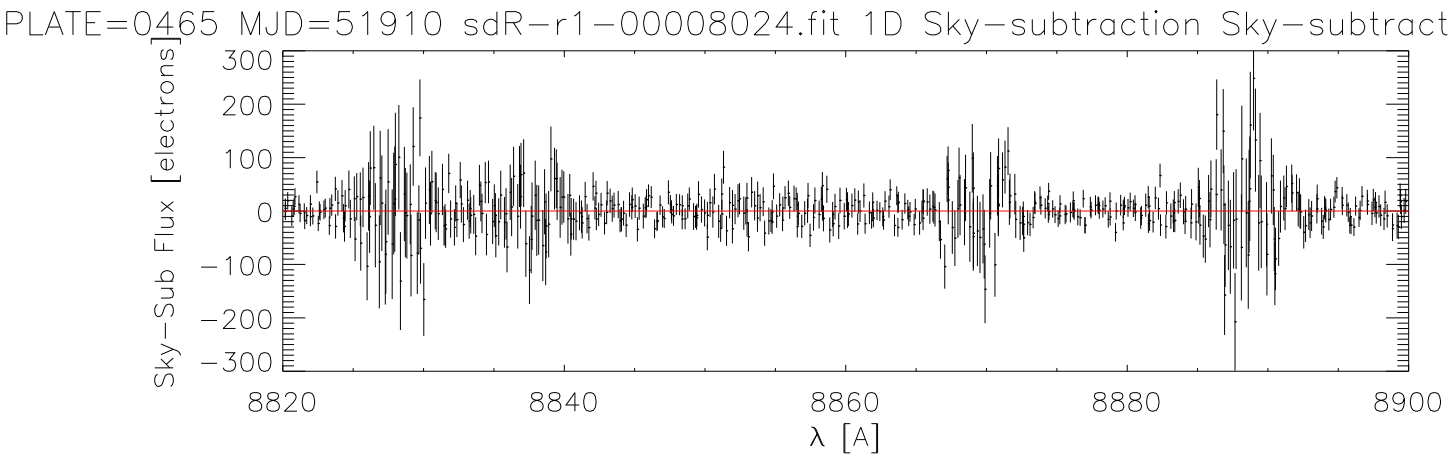

sky shift, pixels
0.15
0.10
0.05
5000
6000
7000
8000
9000
10000

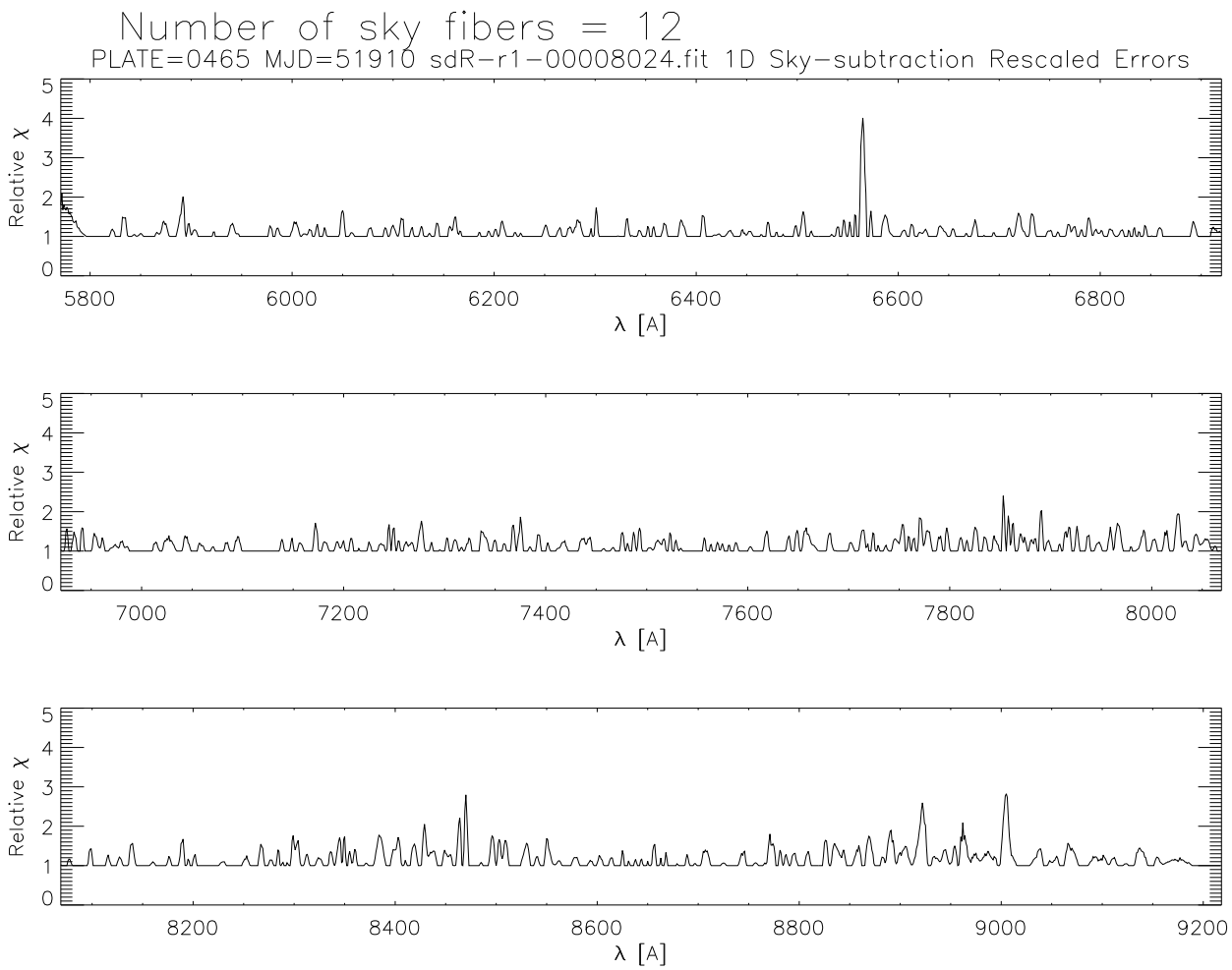
es= 0.0000

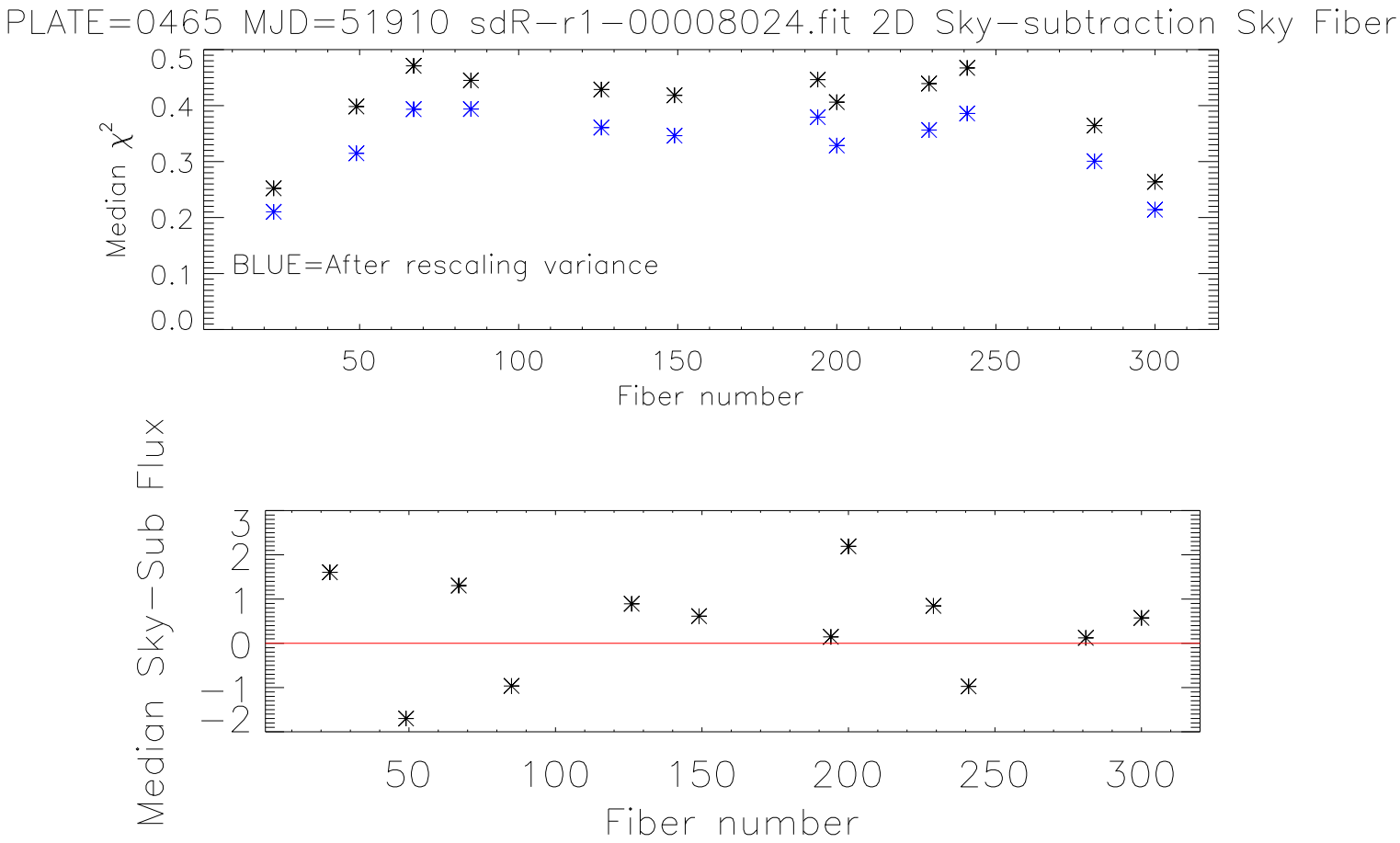

PLATE=0465 MJD=51910 Smooth superflat for sdR-r1-00008024.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

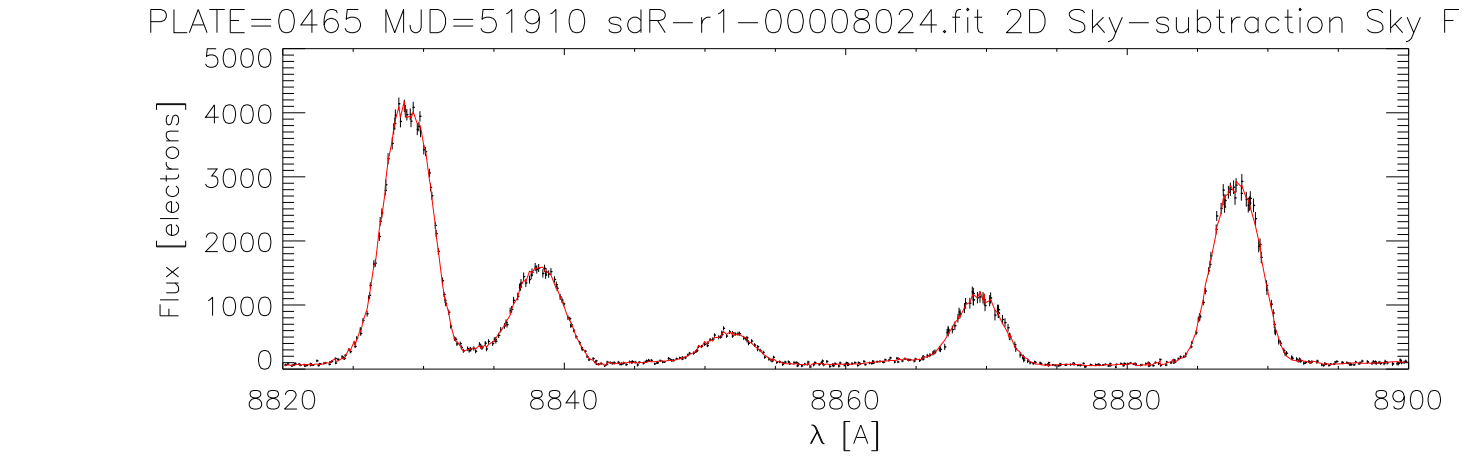

PLATE=0465 MJD=51910 sdR-r1-00008024.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
5
50
100
150
200
250
300
Fiber number

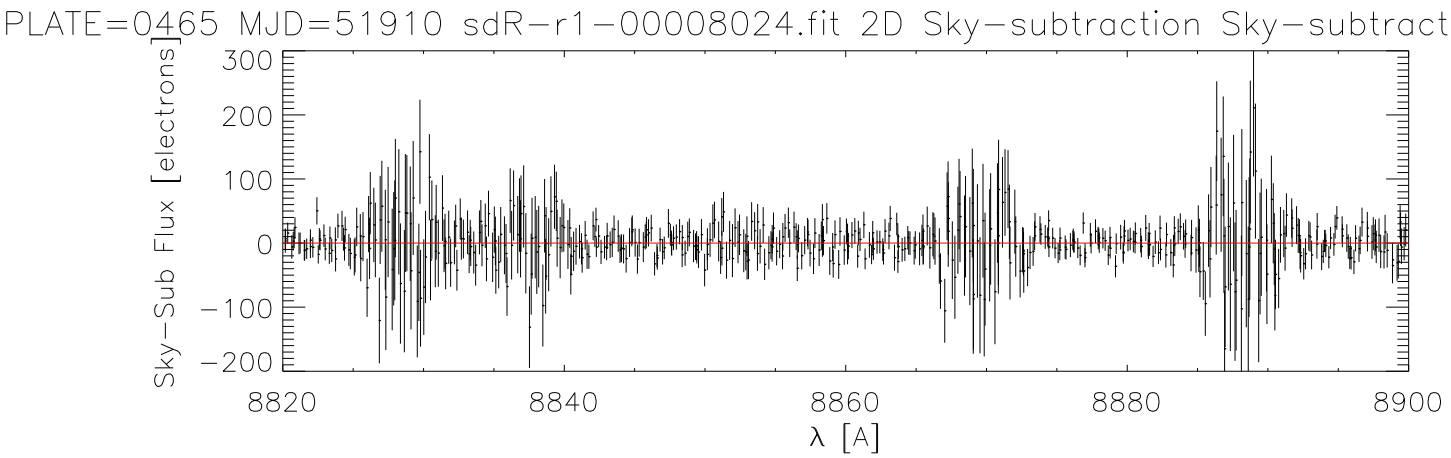

PLATE=0465 MJD=51910 sdR-r1-00008024.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

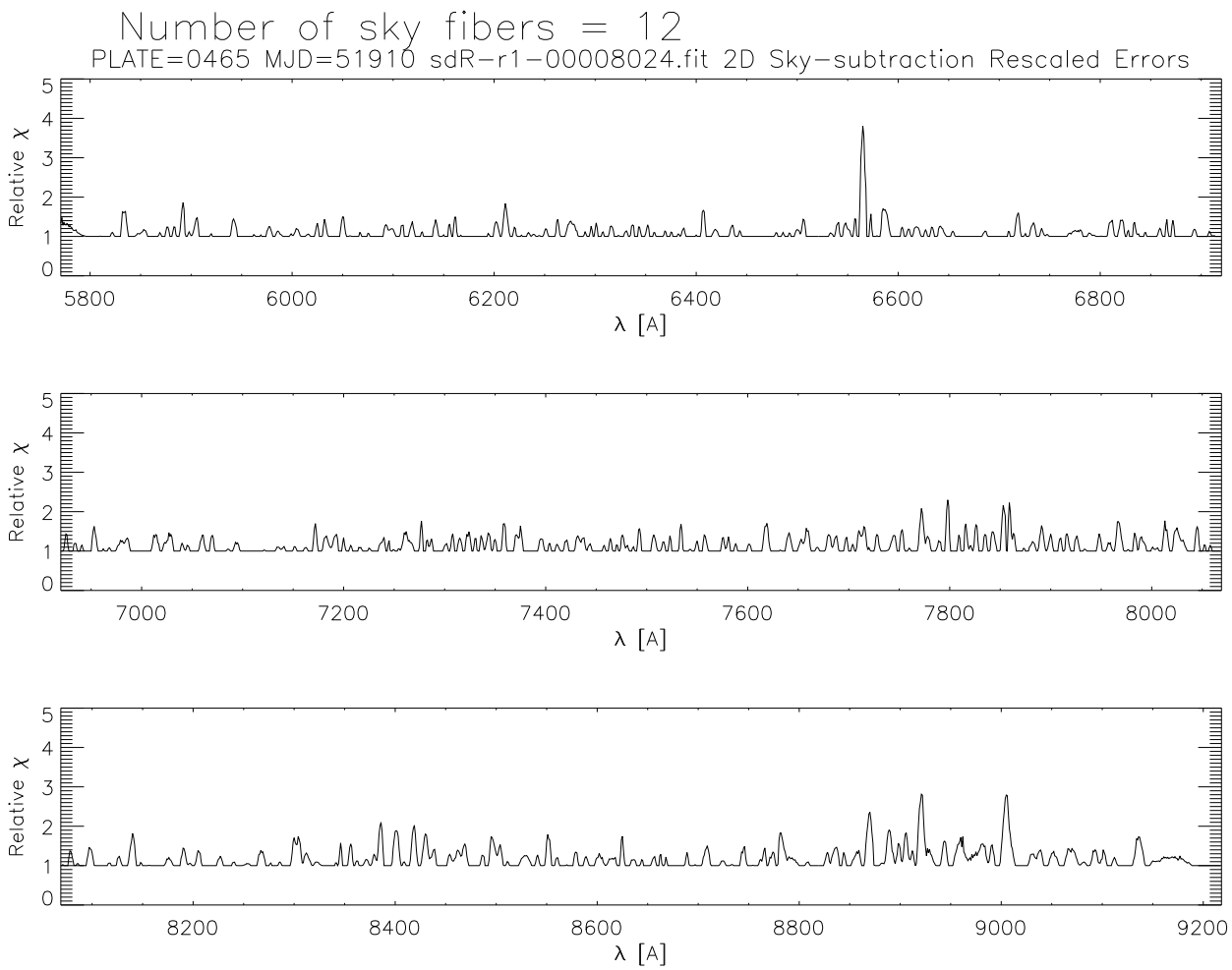

PLATE=0465 MJD=51910 sdR-r1-00008024.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

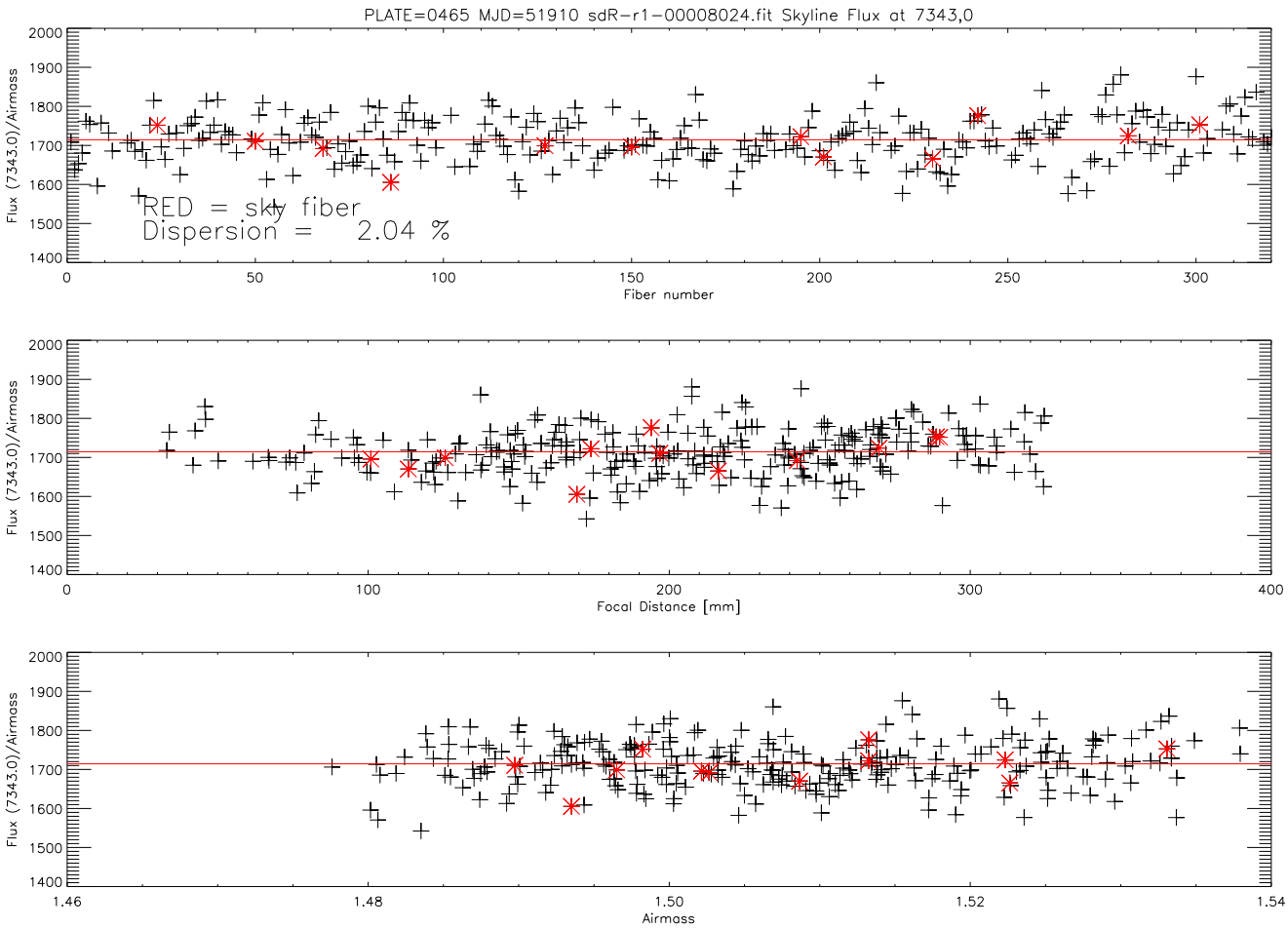

Number of sky fibers = 12
PLATE=0465 MJD=51910 sdR-r1-00008024.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

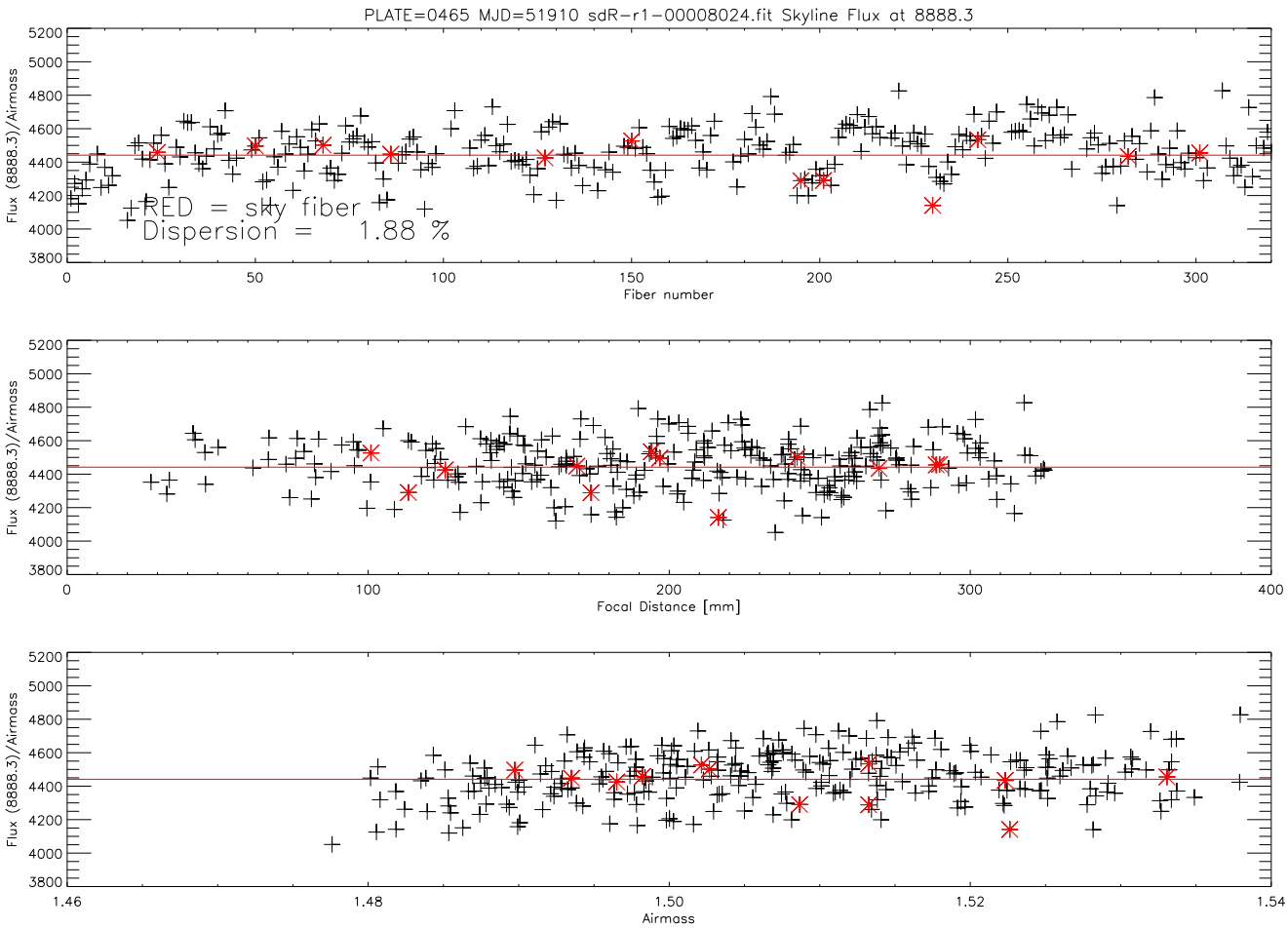

PLATE=0465 MJD=51910 sdR-r1-00008024.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

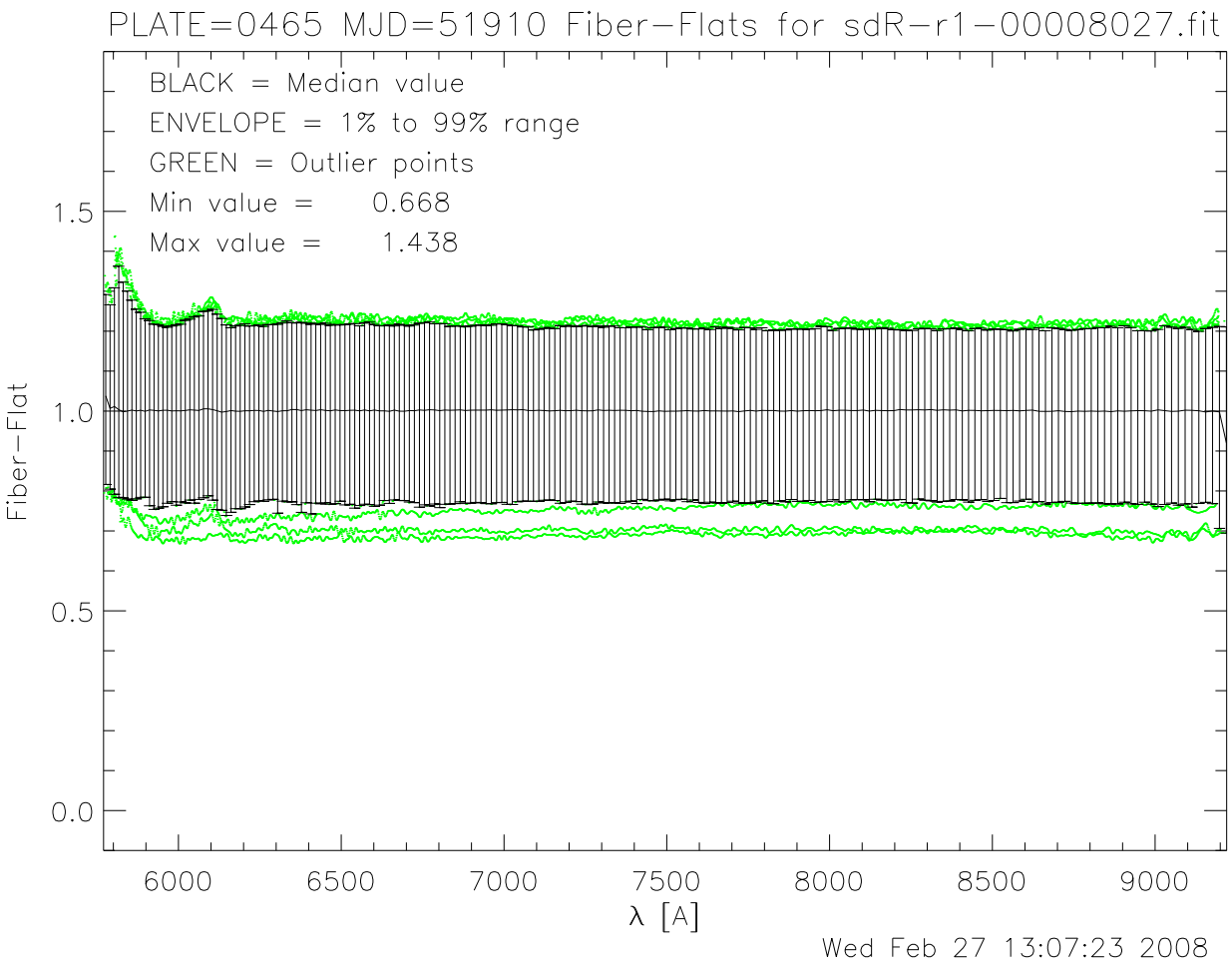

PLATE=0465 MJD=51910 sdR-r1-00008024.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

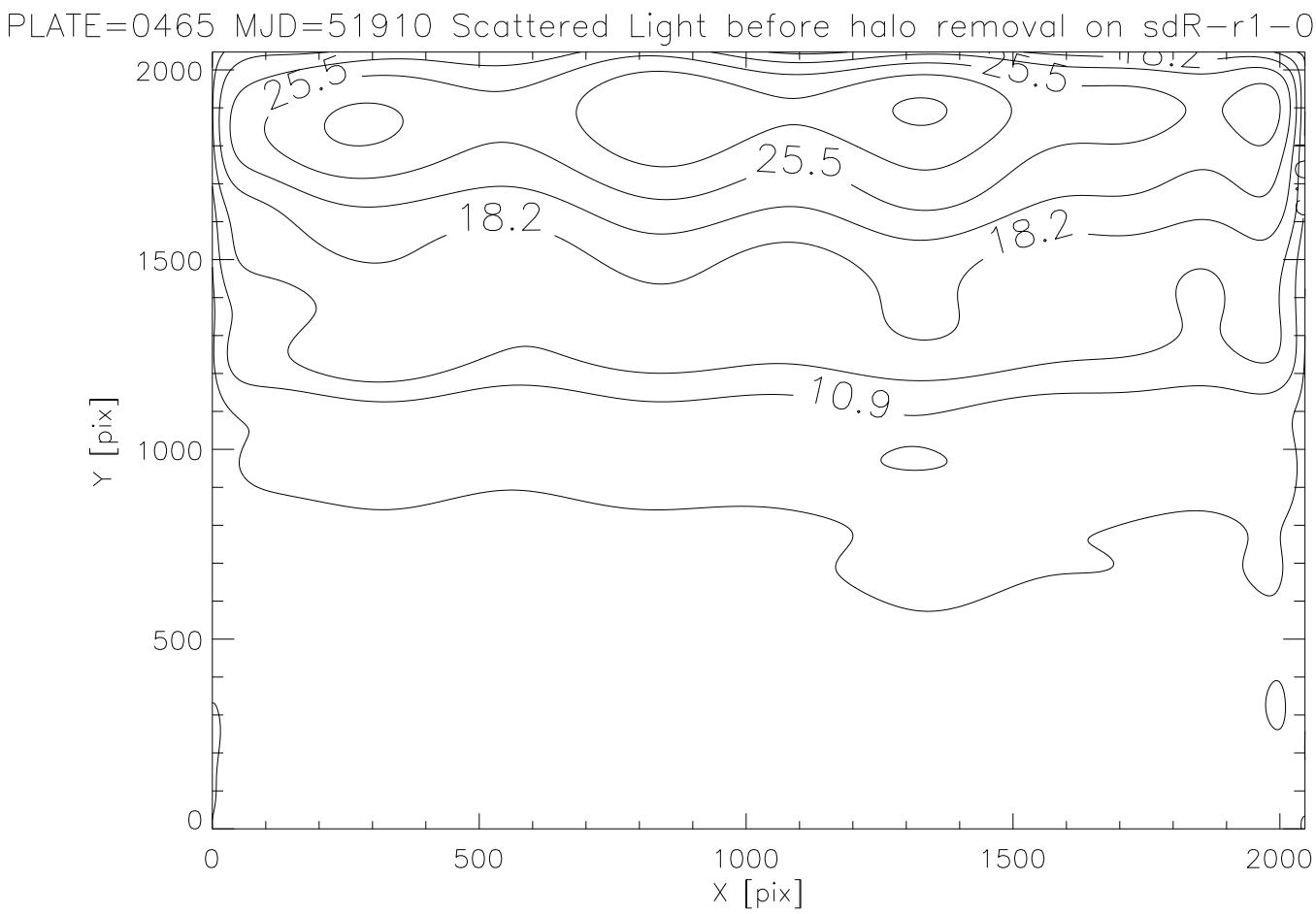

PLATE=0465 MJD=51910 sdR-r1-00008024.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

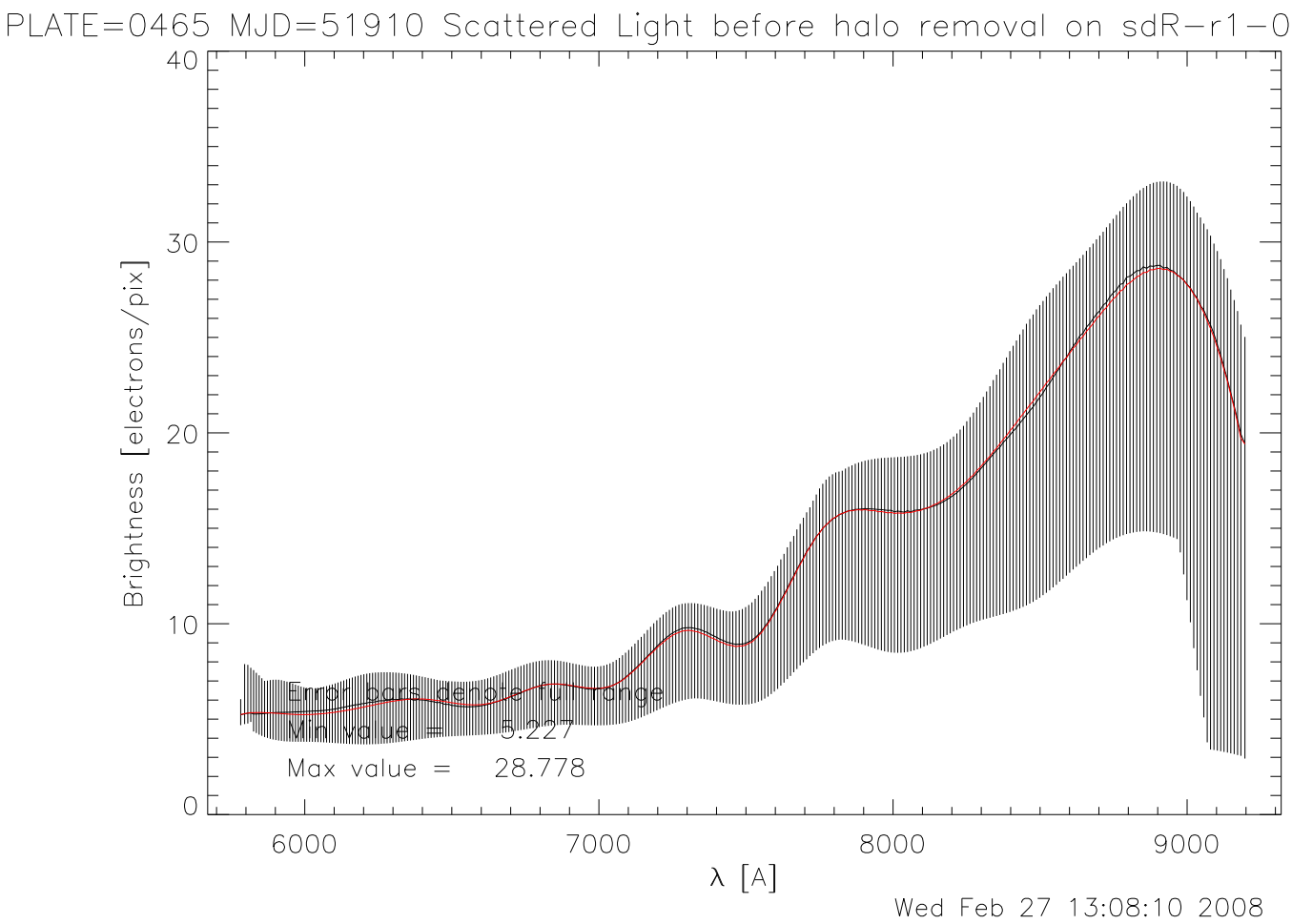

Number of sky fibers = 12
PLATE=0465 MJD=51910 sdR-r1-00008024.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

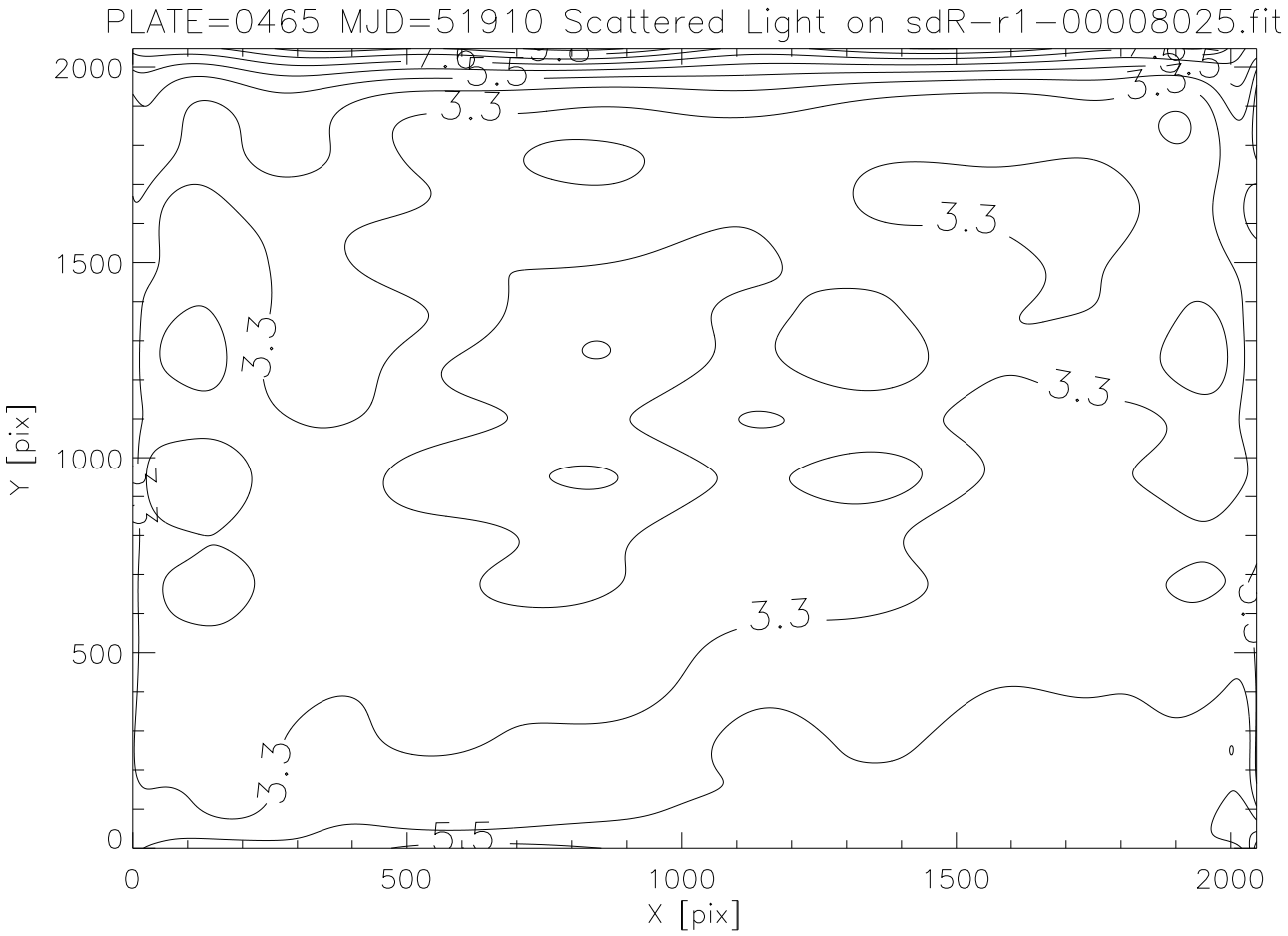

PLATE=0465 MJD=51910 sdR-r1-00008024.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.04 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

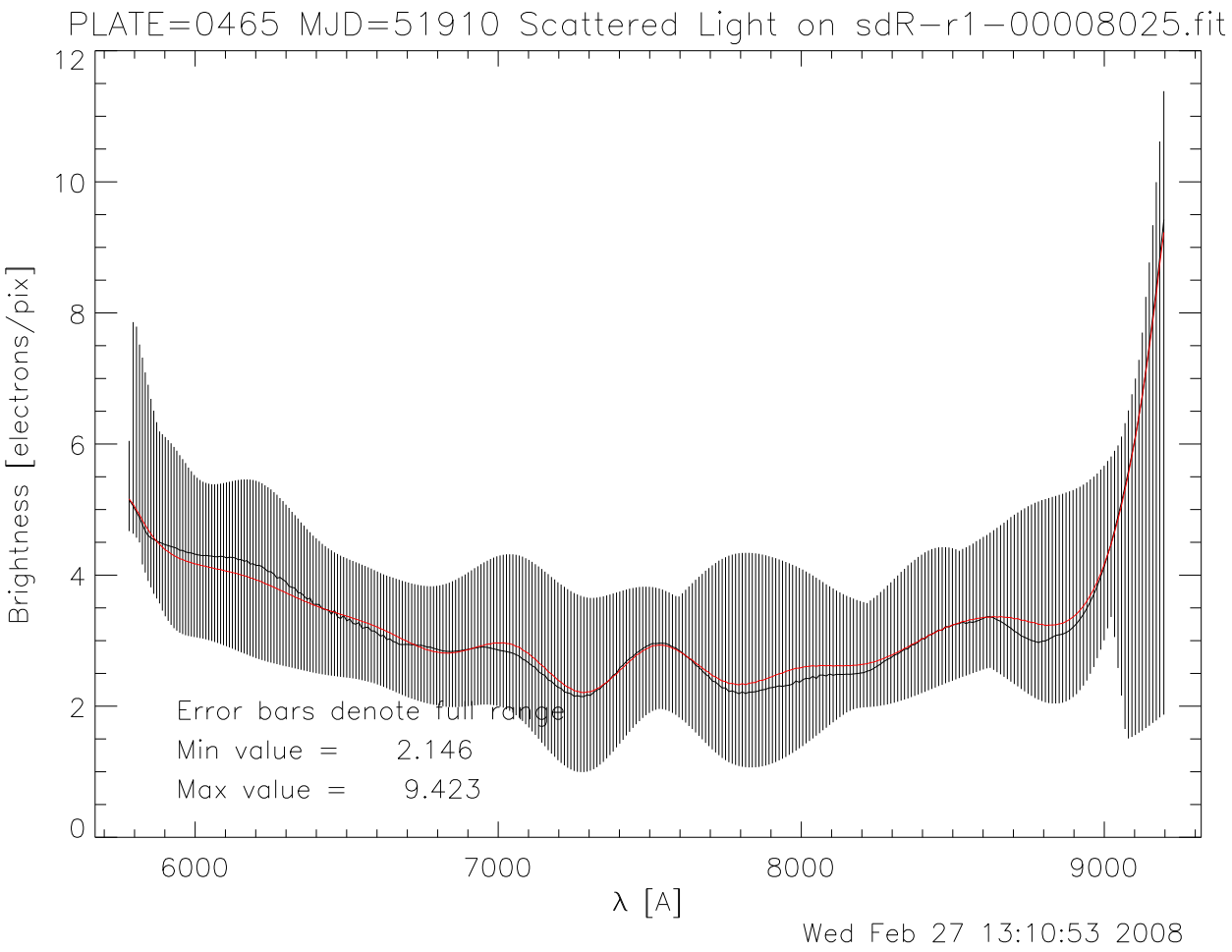

PLATE=0465 MJD=51910 sdR-r1-00008024.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.88 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

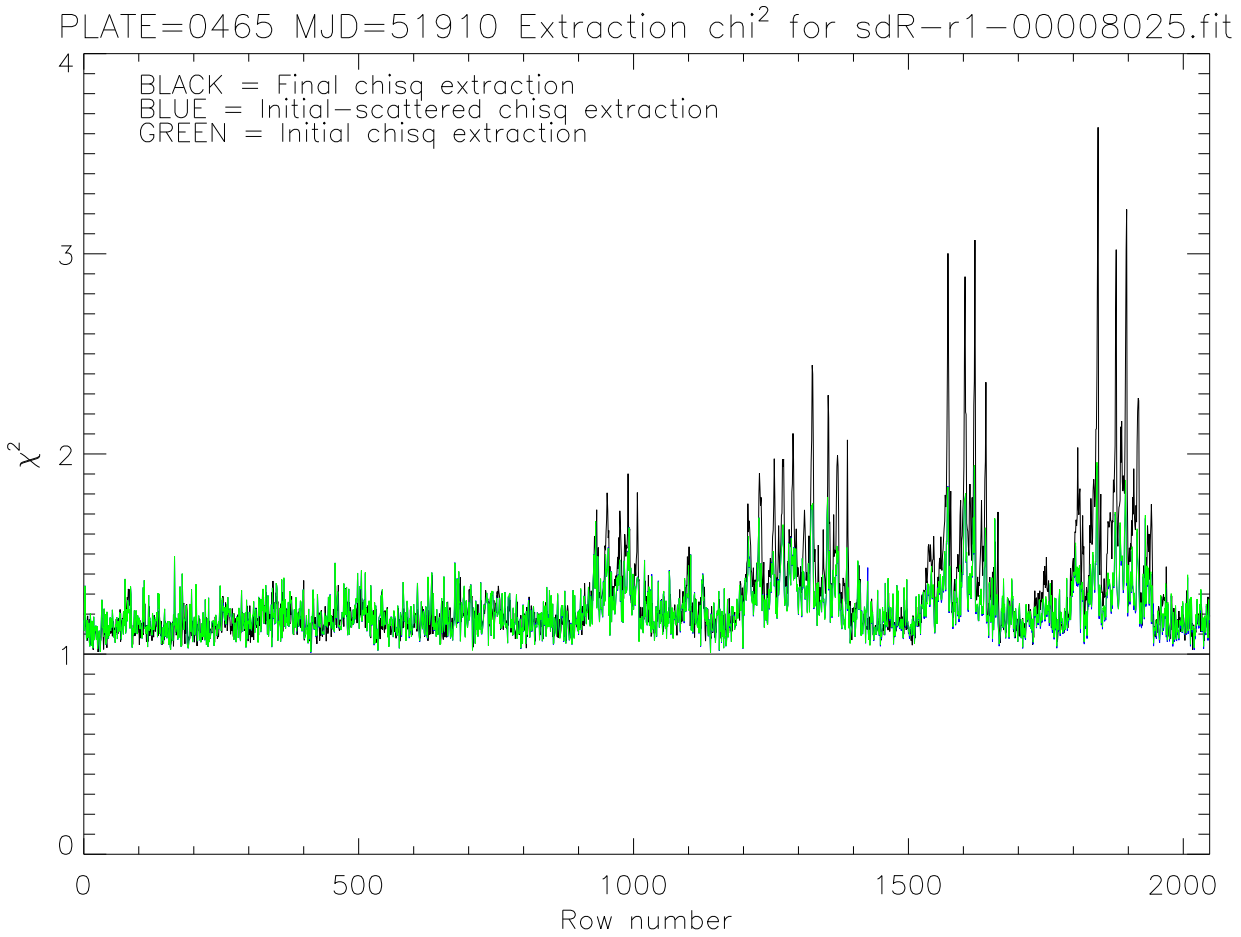

PLATE=0465 MJD=51910 Fiber−Flats for sdR−r1−00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.668
Max value = 1.438
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 13:07:23 2008

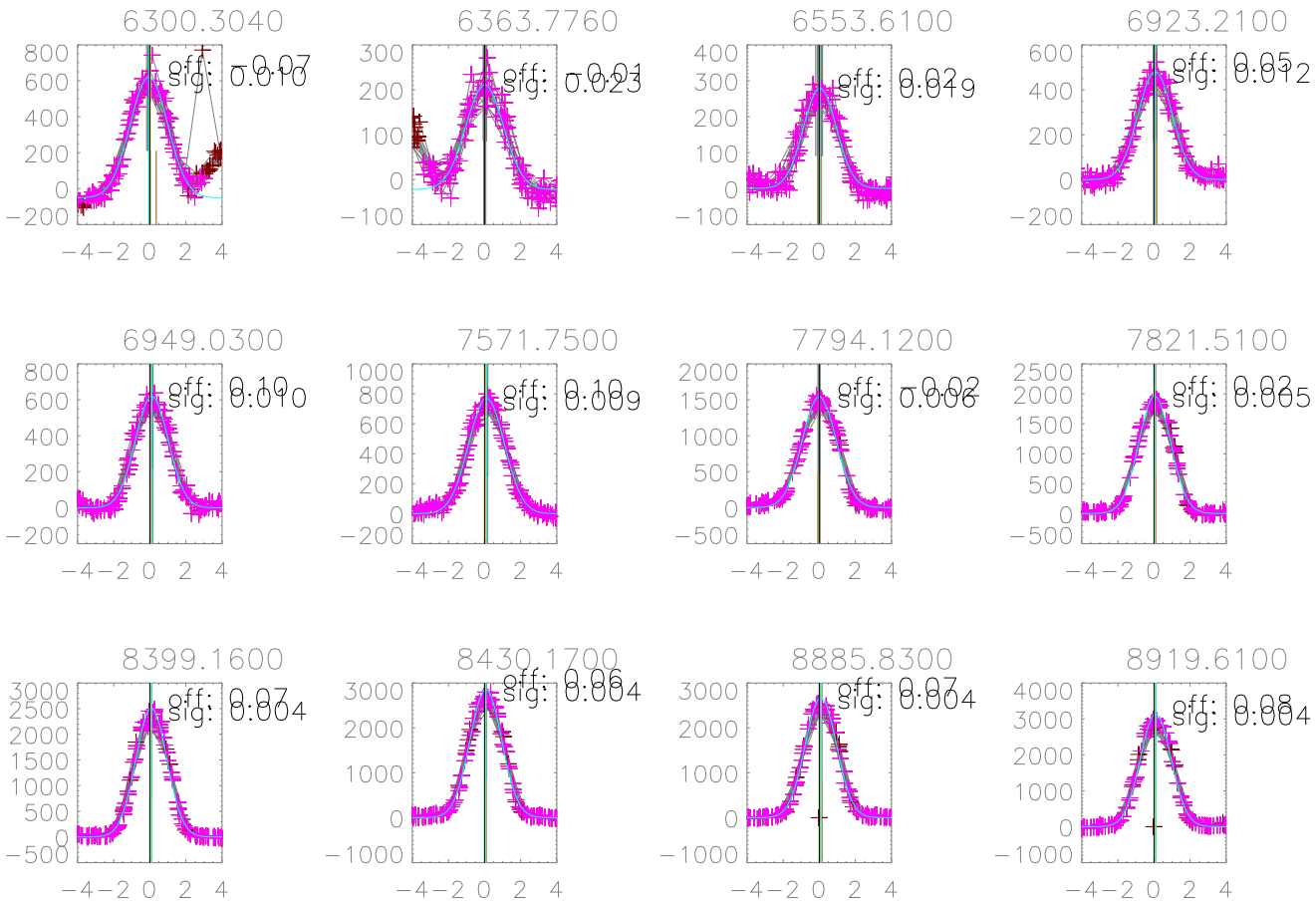

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r1-00008025.fi
25.5
25.5
25.5
18.2
18.2
10.9
0
Y [pix]
X [pix]
0
500
1000
1500
2000

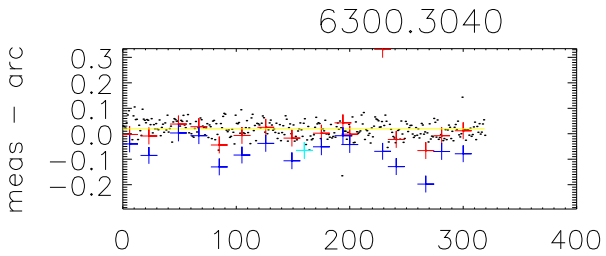

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r1-00008025.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.227
Max value = 28.778
Wed Feb 27 13:08:10 2008

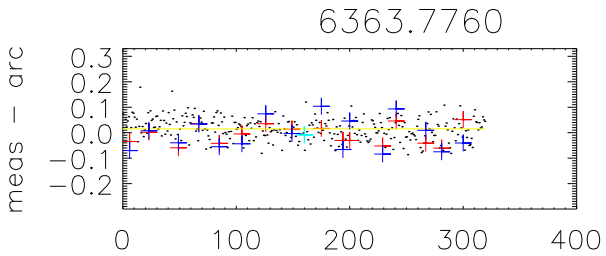

PLATE=0465 MJD=51910 Scattered Light on sdR-r1-00008025.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
5.5
3.3

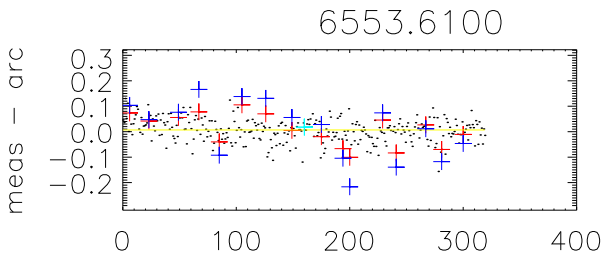

PLATE=0465 MJD=51910 Scattered Light on sdR-r1-00008025.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.146
Max value = 9.423
Wed Feb 27 13:10:53 2008

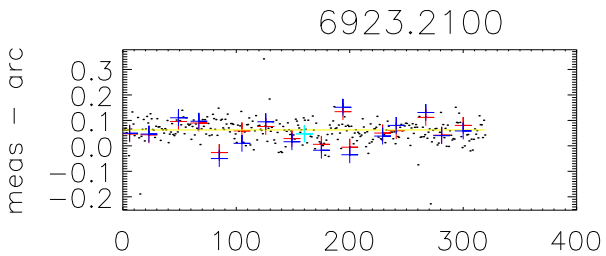

PLATE=0465 MJD=51910 Extraction chi^2 for sdR−r1−00008025.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

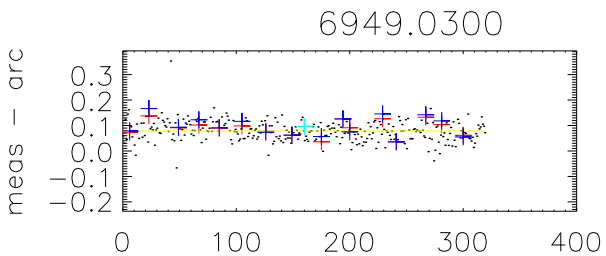

6300.3040
off: −0.07
sig: 0.010
6363.7760
off: −0.01
sig: 0.023
6553.6100
off: 0.02
sig: 0.049
6923.2100
off: 0.05
sig: 0.012
6949.0300
off: 0.10
sig: 0.010
7571.7500
off: 0.10
sig: 0.009
7794.1200
off: −0.02
sig: 0.006
7821.5100
off: 0.02
sig: 0.005
8399.1600
off: 0.07
sig: 0.004
8430.1700
off: 0.06
sig: 0.004
8885.8300
off: 0.07
sig: 0.004
8919.6100
off: 0.08
sig: 0.004

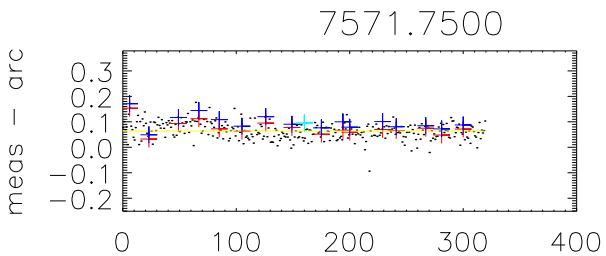

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

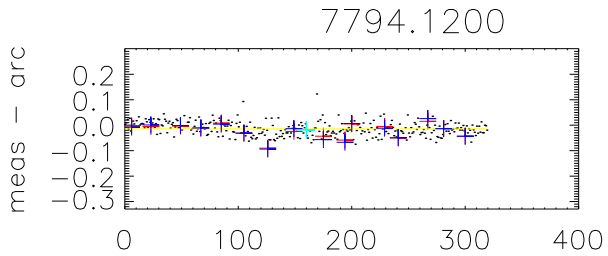

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

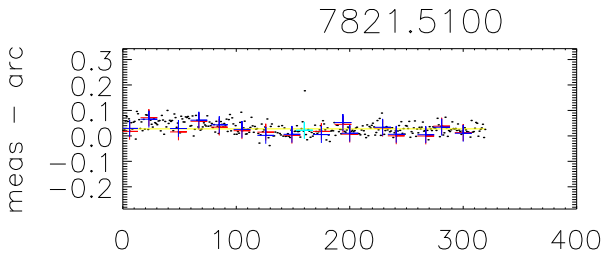

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

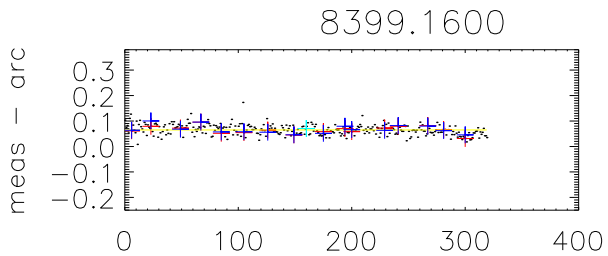

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

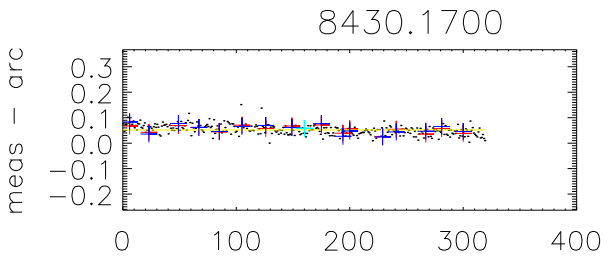

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

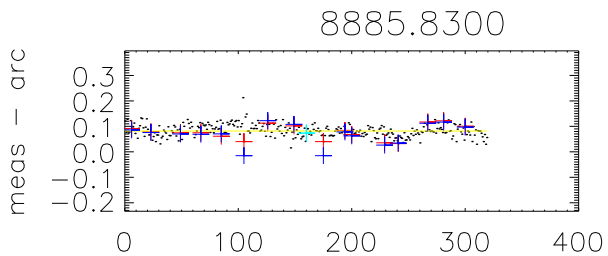

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

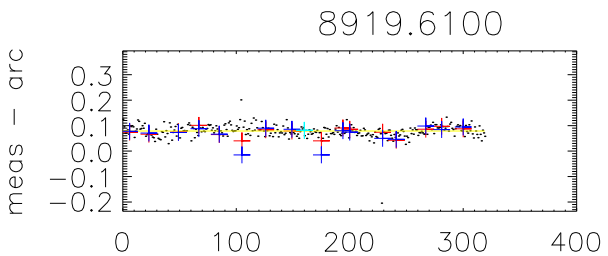

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

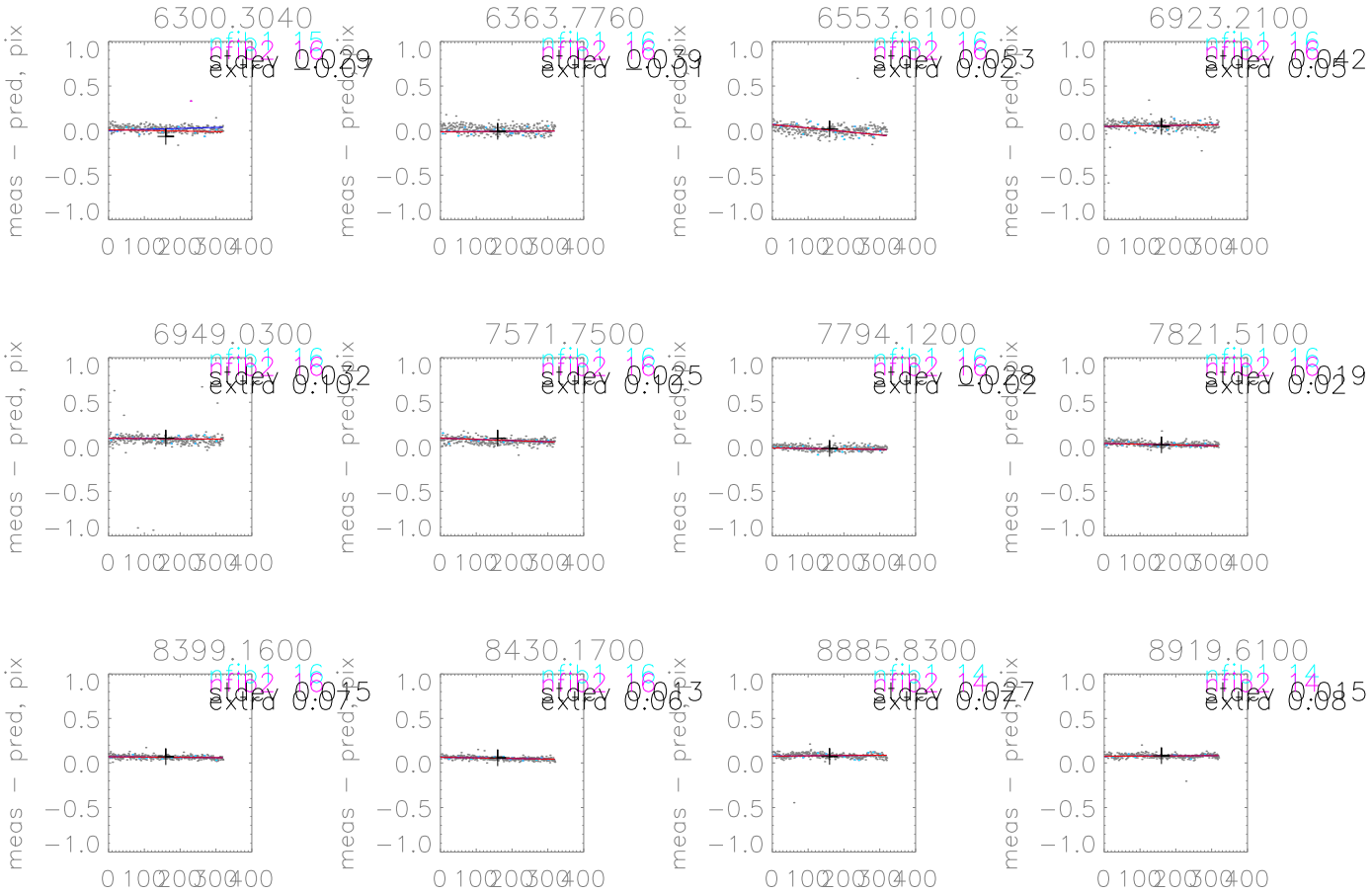

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

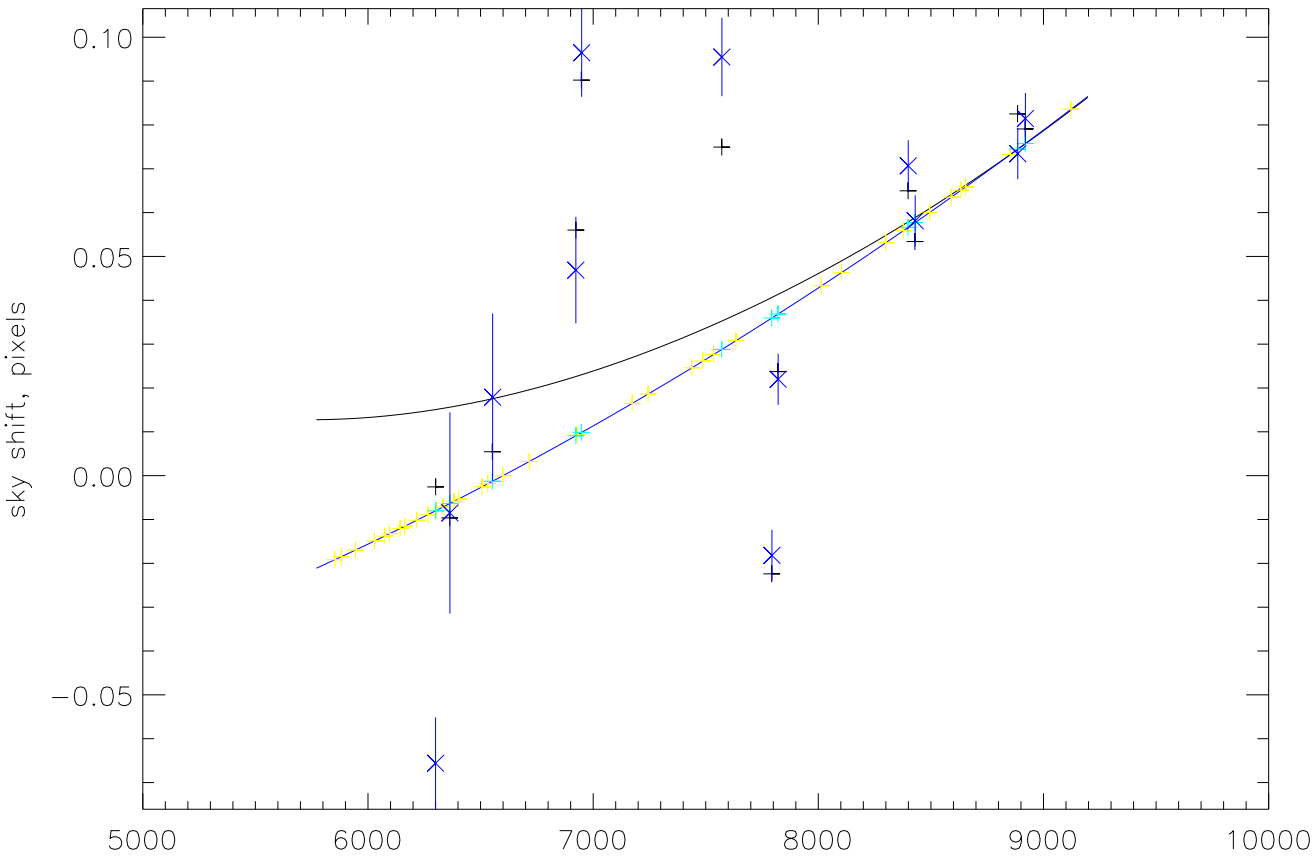

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

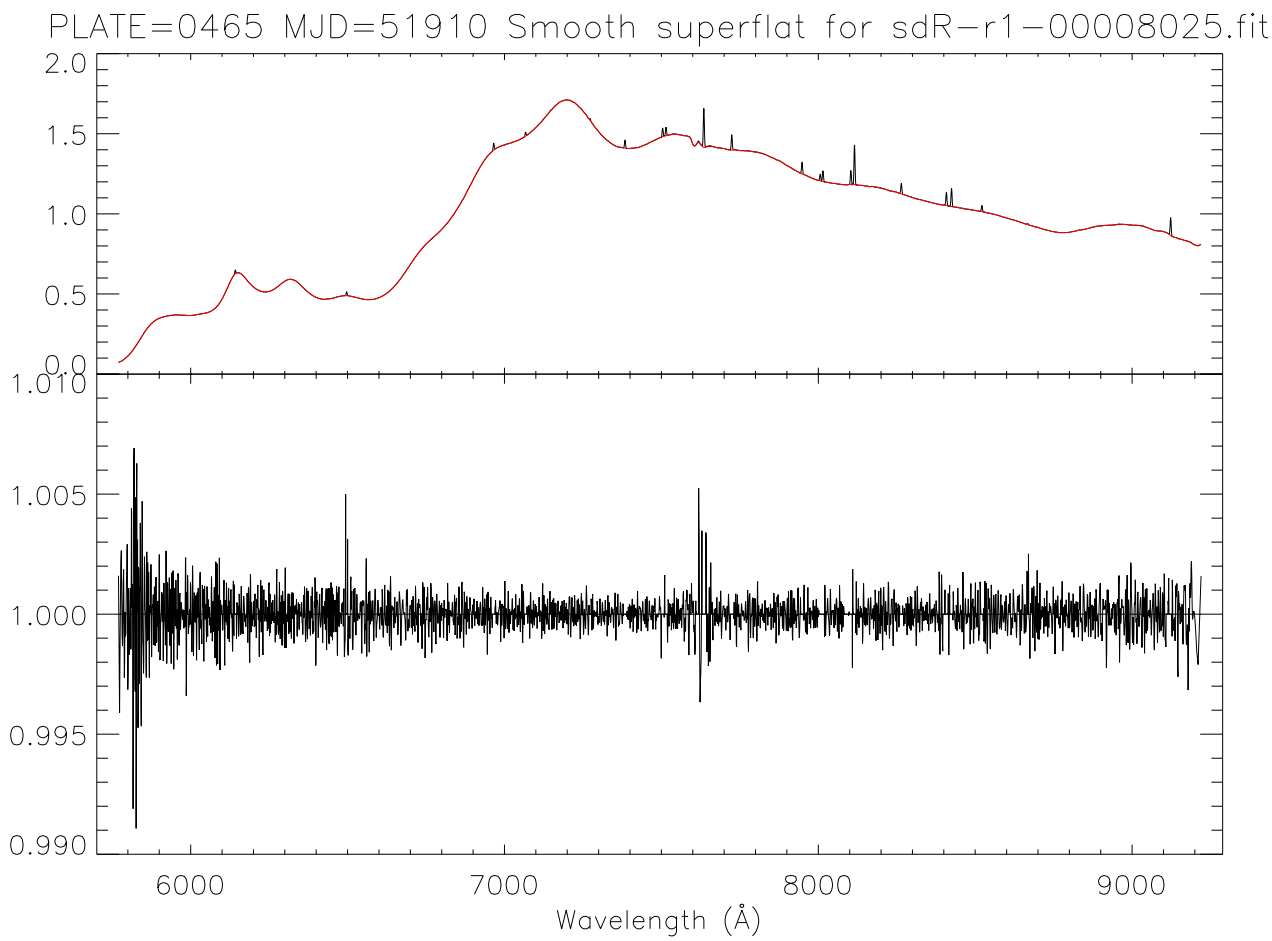

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

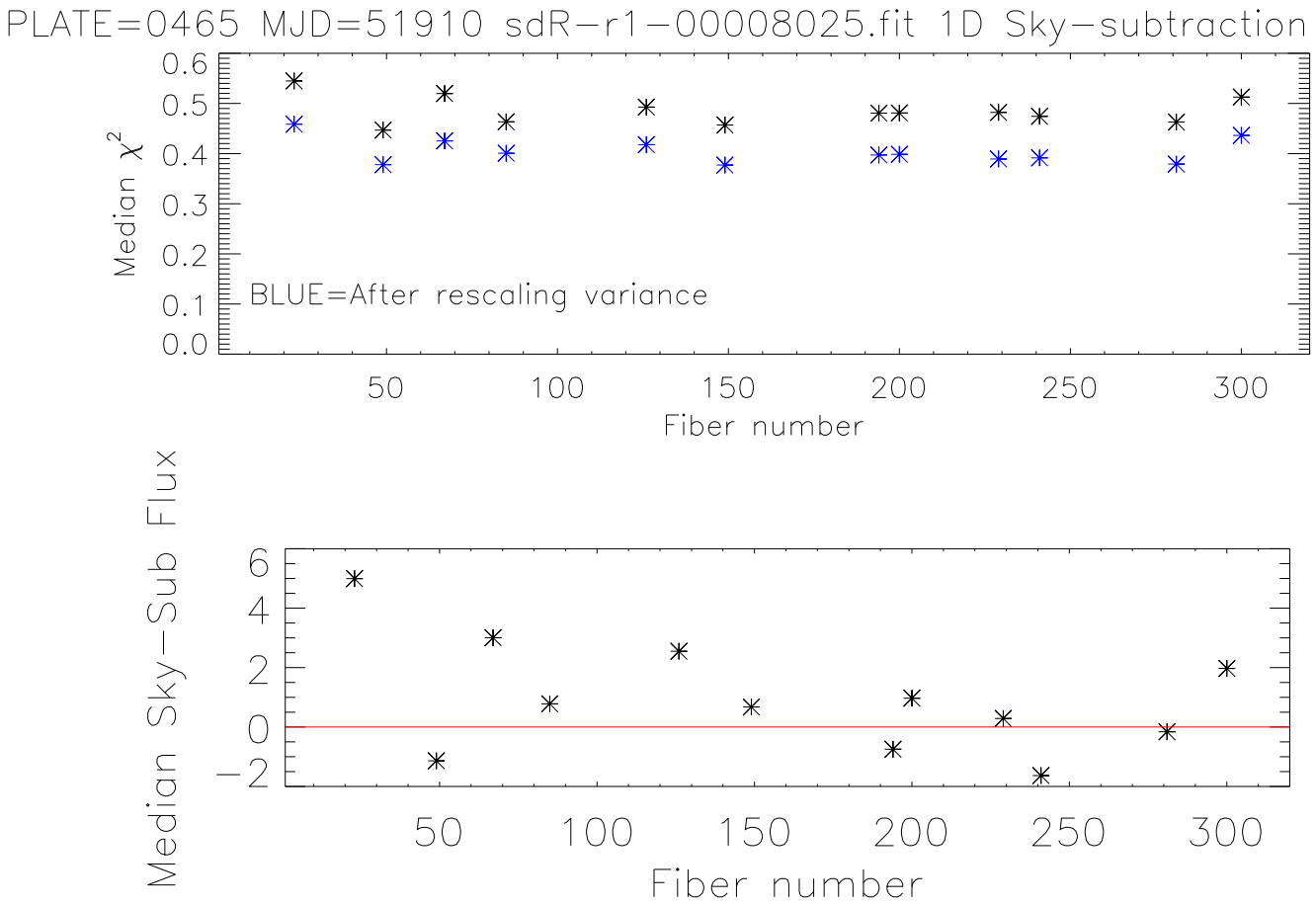

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

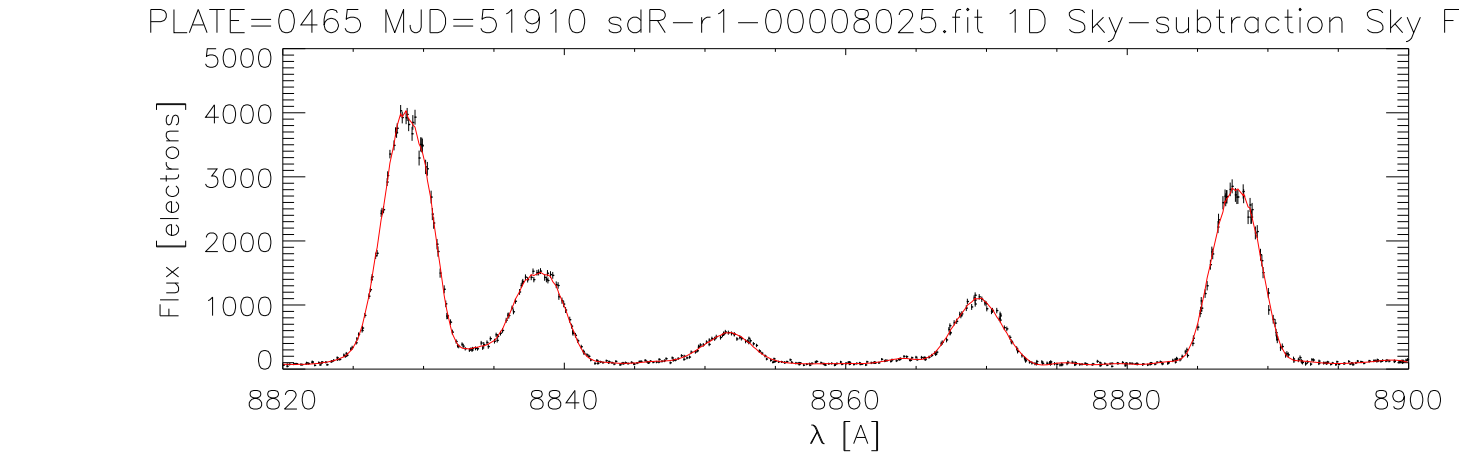

6300.3040
mfhi1 15
mflo1 16
stdev 0.029
extra −0.07
6363.7760
mfhi1 16
mflo1 16
stdev 0.039
extra −0.01
6553.6100
mfhi1 16
mflo1 16
stdev 0.053
extra 0.023
6923.2100
mfhi1 16
mflo1 16
stdev 0.042
extra 0.05
6949.0300
mfhi1 16
mflo1 16
stdev 0.032
extra 0.102
7571.7500
mfhi1 16
mflo1 16
stdev 0.025
extra 0.16
7794.1200
mfhi1 16
mflo1 16
stdev 0.028
extra −0.02
7821.5100
mfhi1 16
mflo1 16
stdev 0.019
extra 0.02
8399.1600
mfhi1 16
mflo1 16
stdev 0.075
extra 0.07
8430.1700
mfhi1 16
mflo1 16
stdev 0.043
extra 0.06
8885.8300
mfhi1 14
mflo1 14
stdev 0.027
extra 0.07
8919.6100
mfhi1 14
mflo1 14
stdev 0.015
extra 0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

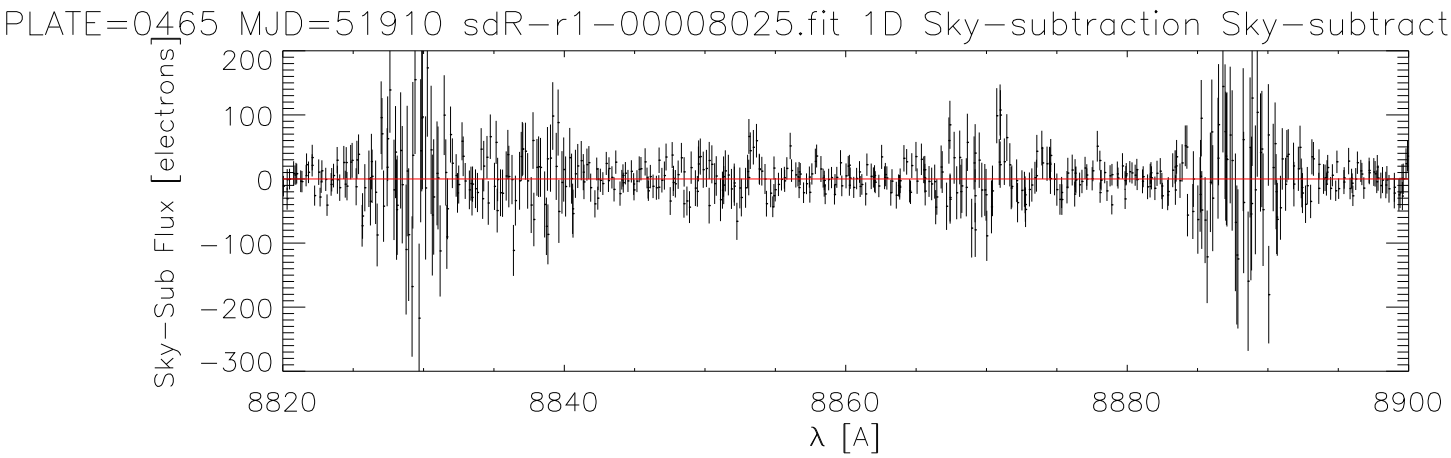

0.10
0.05
0.00
−0.05
sky shift, pixels
5000
6000
7000
8000
9000
10000

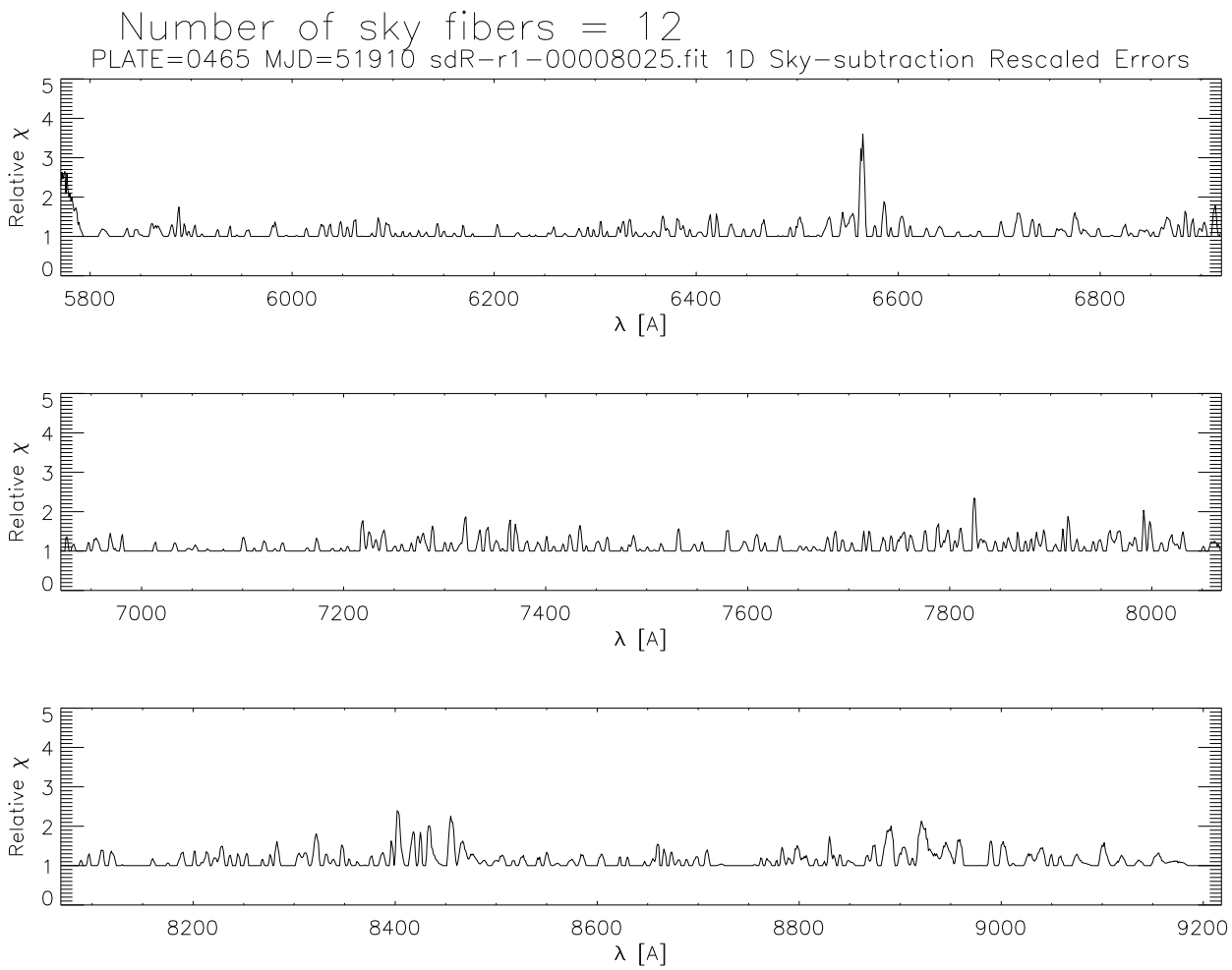
es= 0.0000

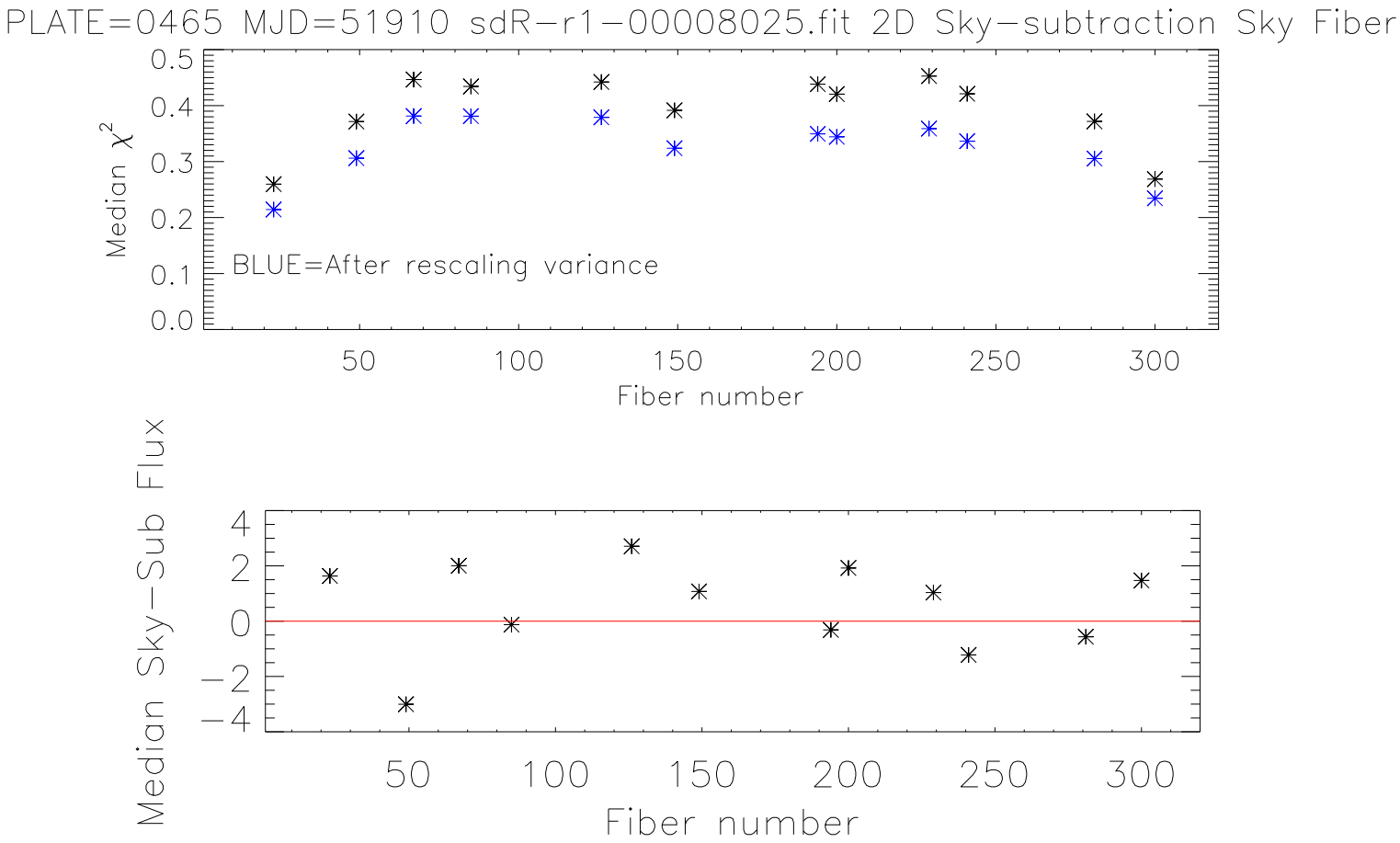

PLATE=0465 MJD=51910 Smooth superflat for sdR-r1-00008025.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

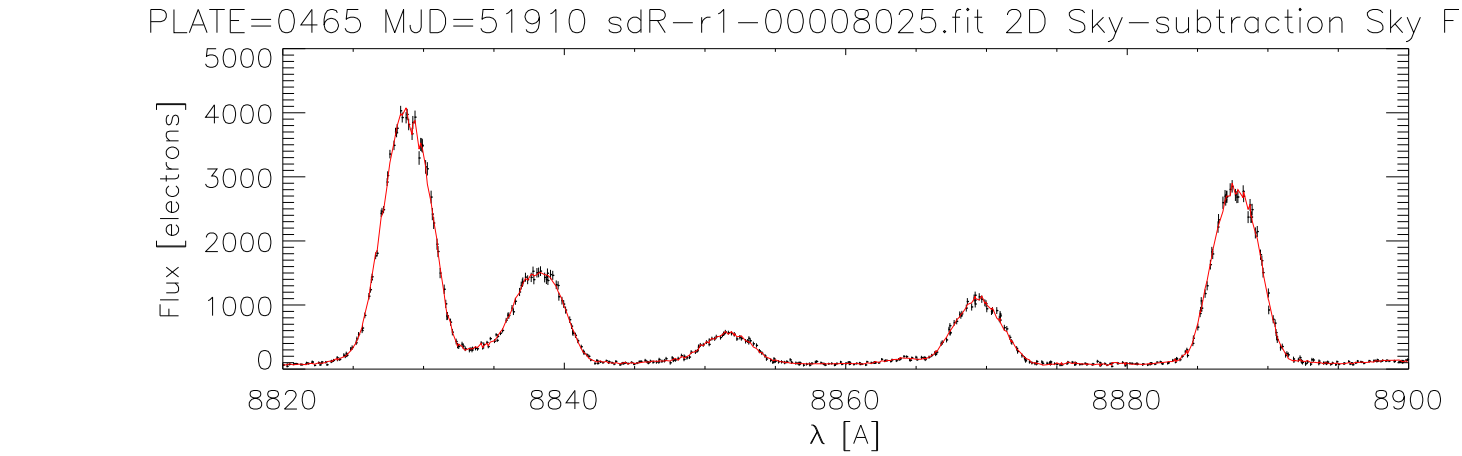

PLATE=0465 MJD=51910 sdR-r1-00008025.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

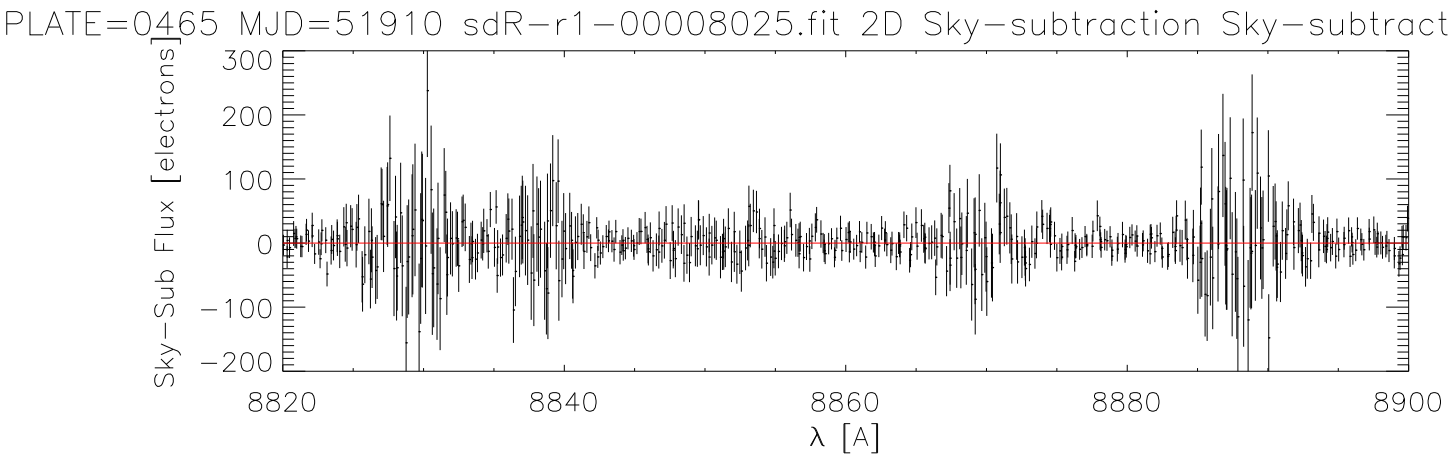

PLATE=0465 MJD=51910 sdR-r1-00008025.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

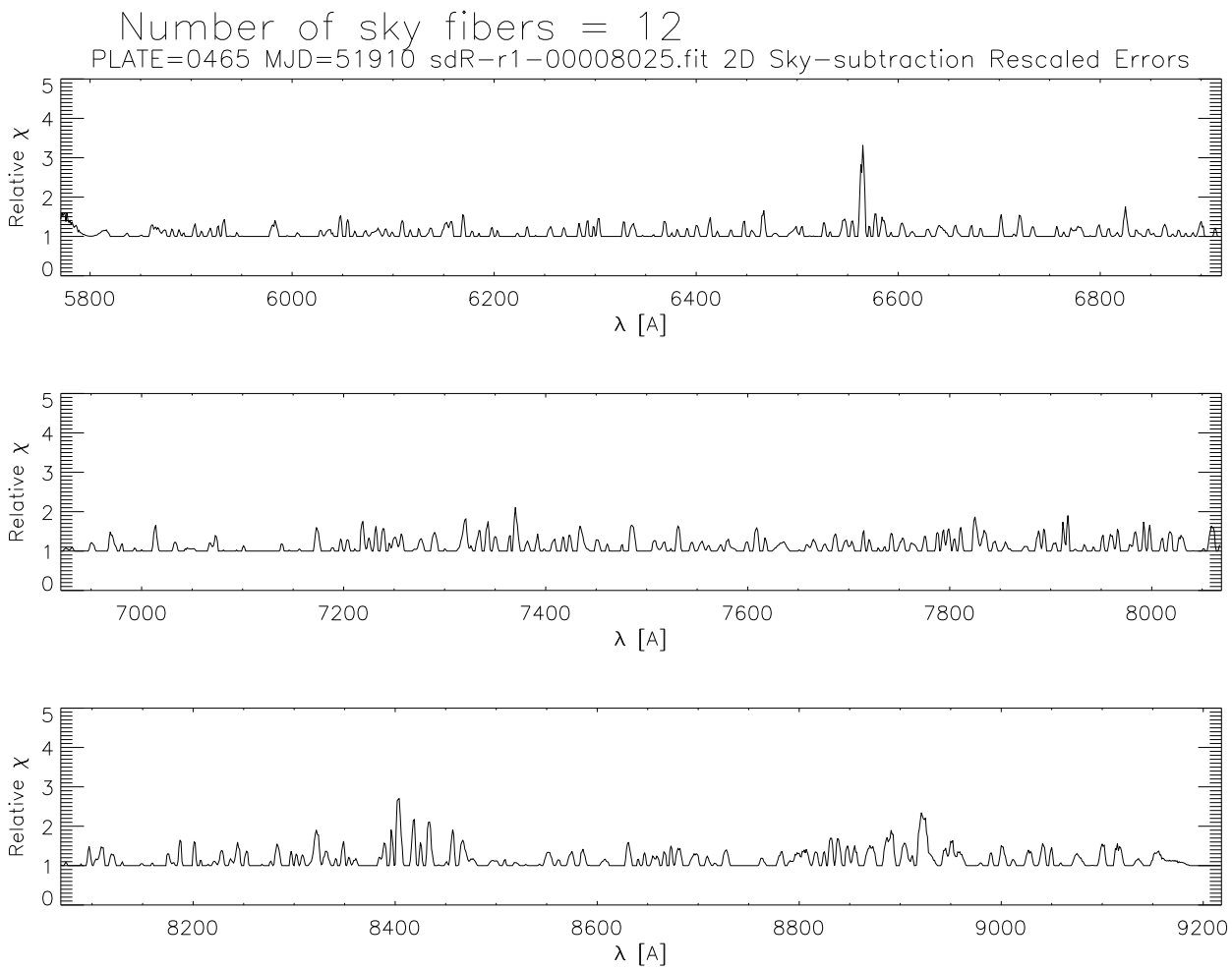

PLATE=0465 MJD=51910 sdR-r1-00008025.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

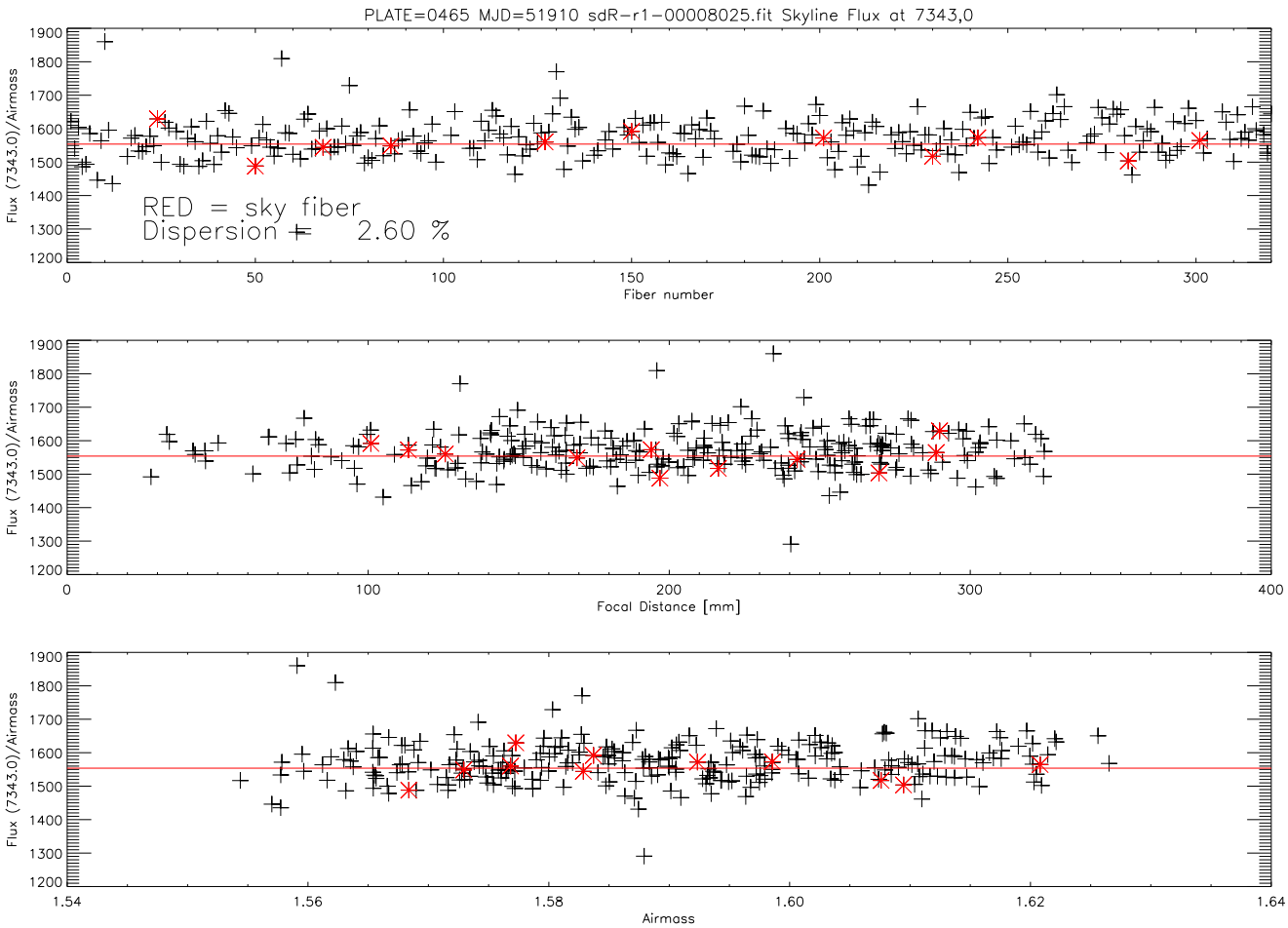

Number of sky fibers = 12
PLATE=0465 MJD=51910 sdR-r1-00008025.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

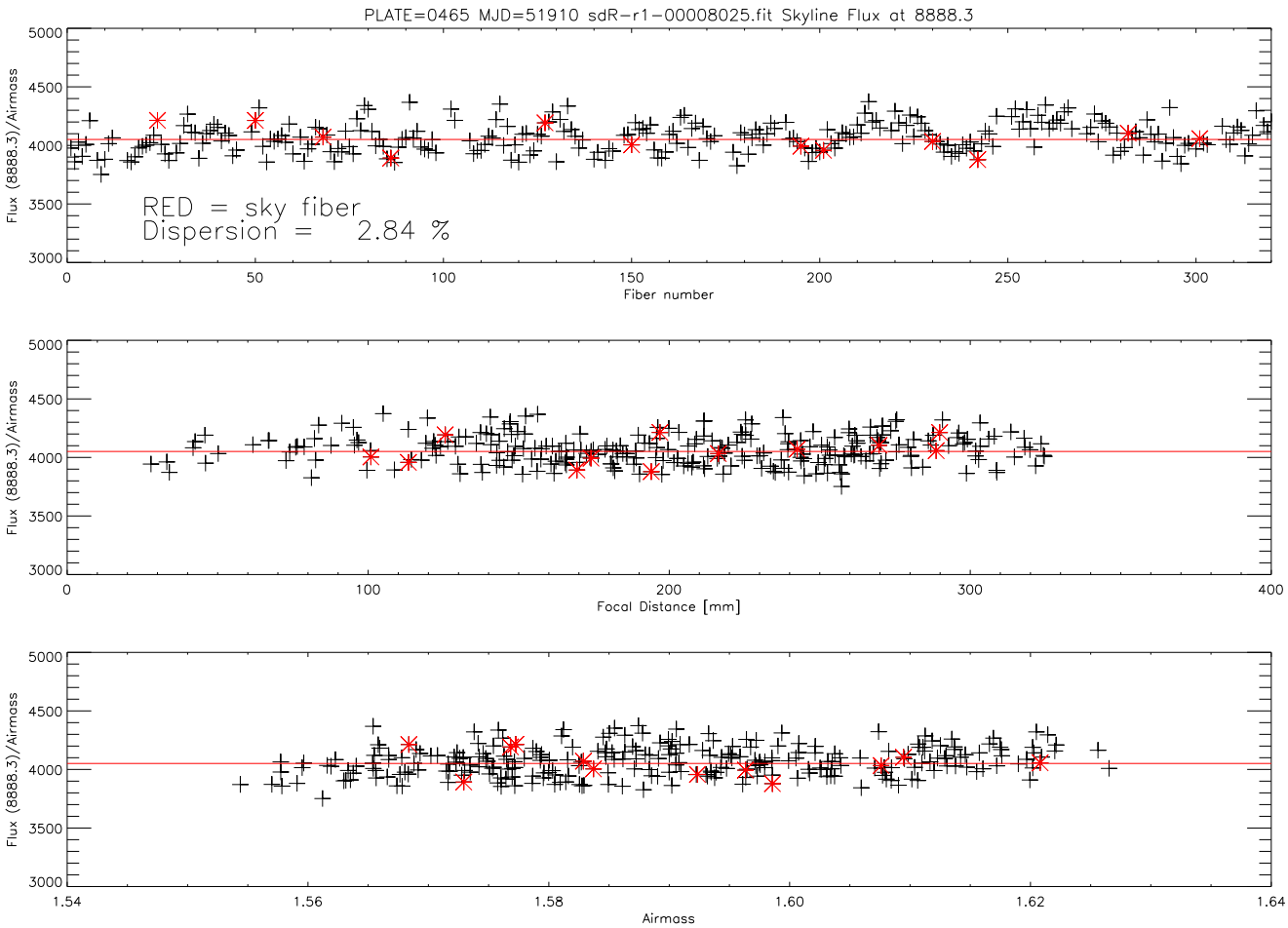

PLATE=0465 MJD=51910 sdR-r1-00008025.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

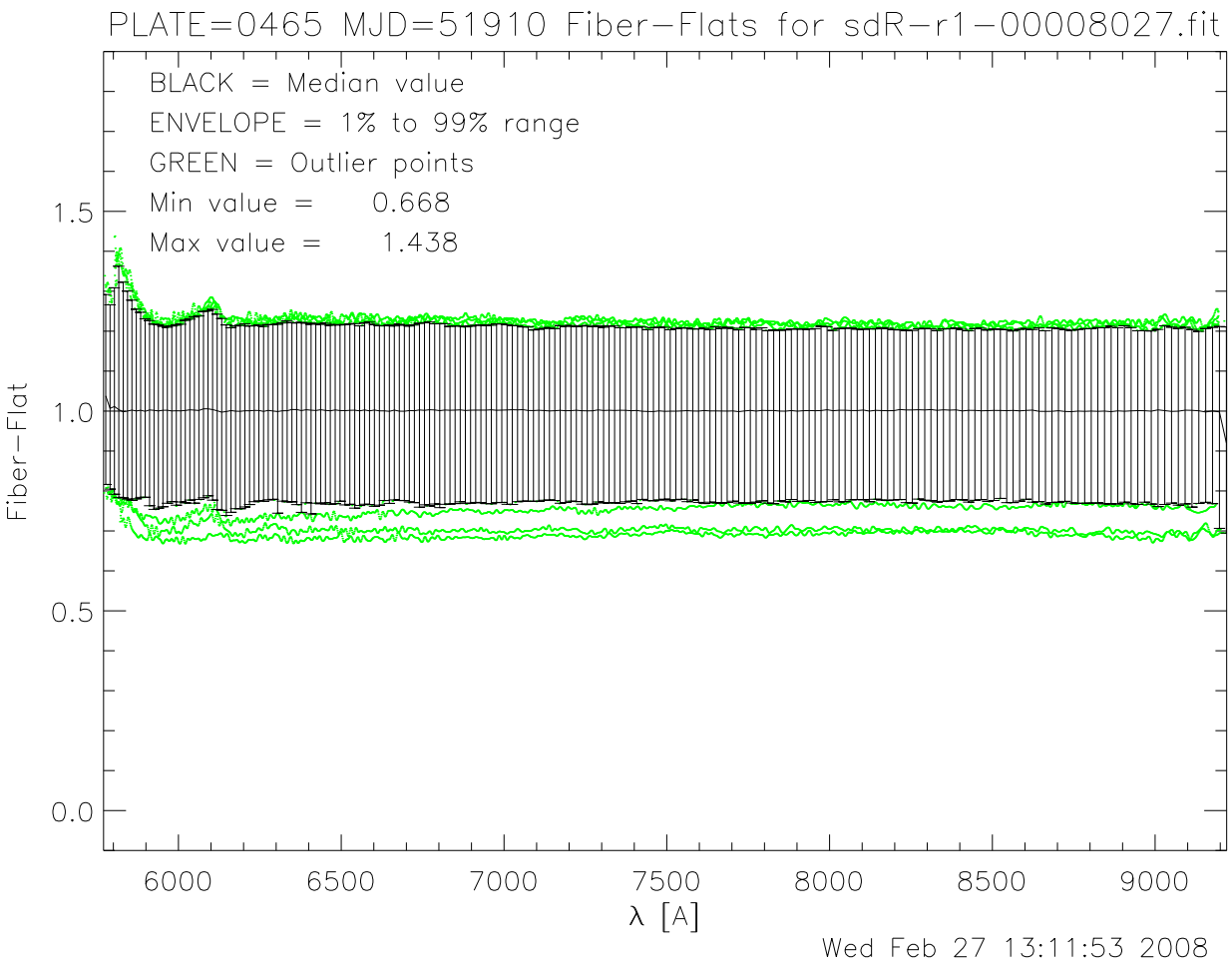

PLATE=0465 MJD=51910 sdR-r1-00008025.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

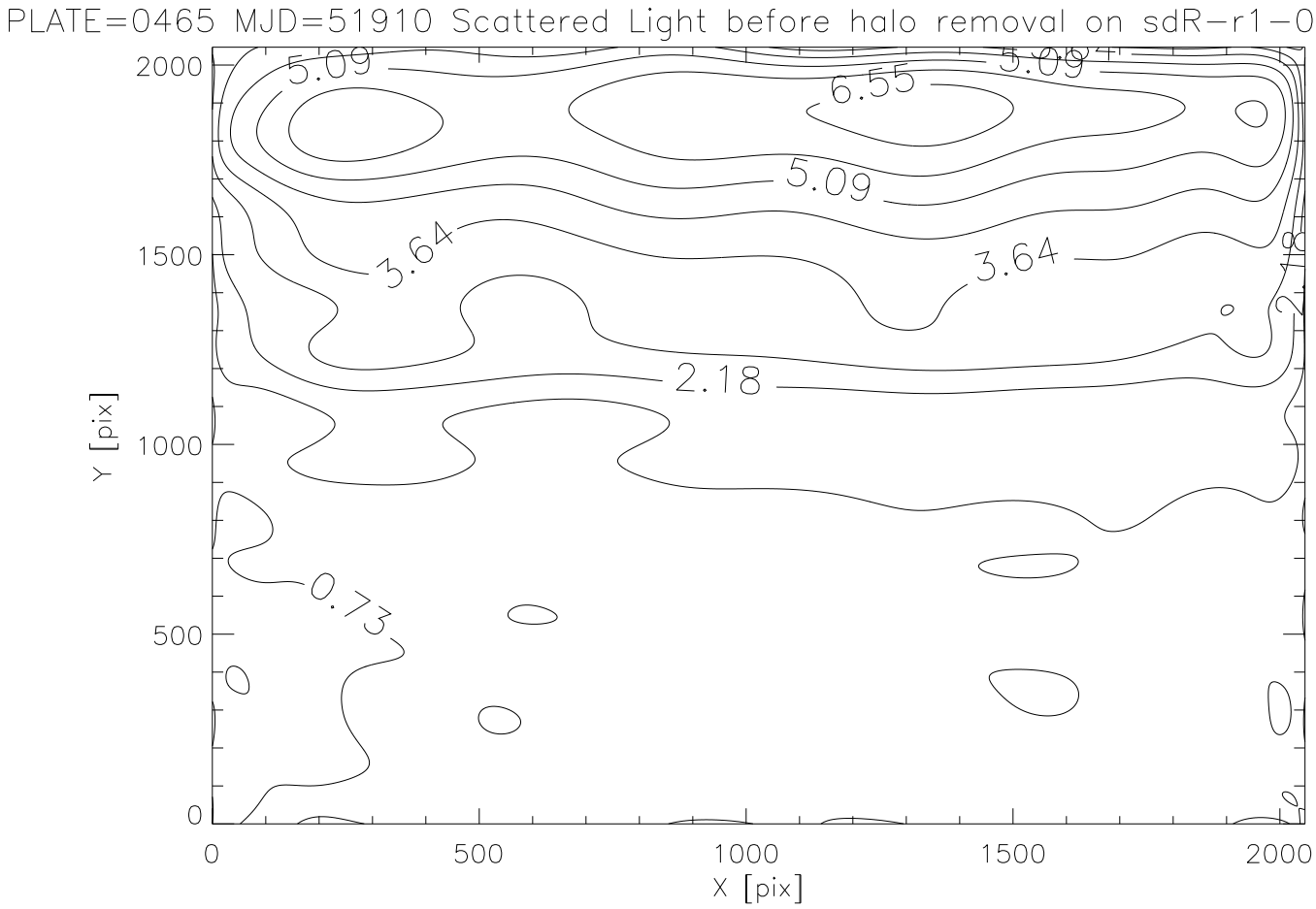

PLATE=0465 MJD=51910 sdR-r1-00008025.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

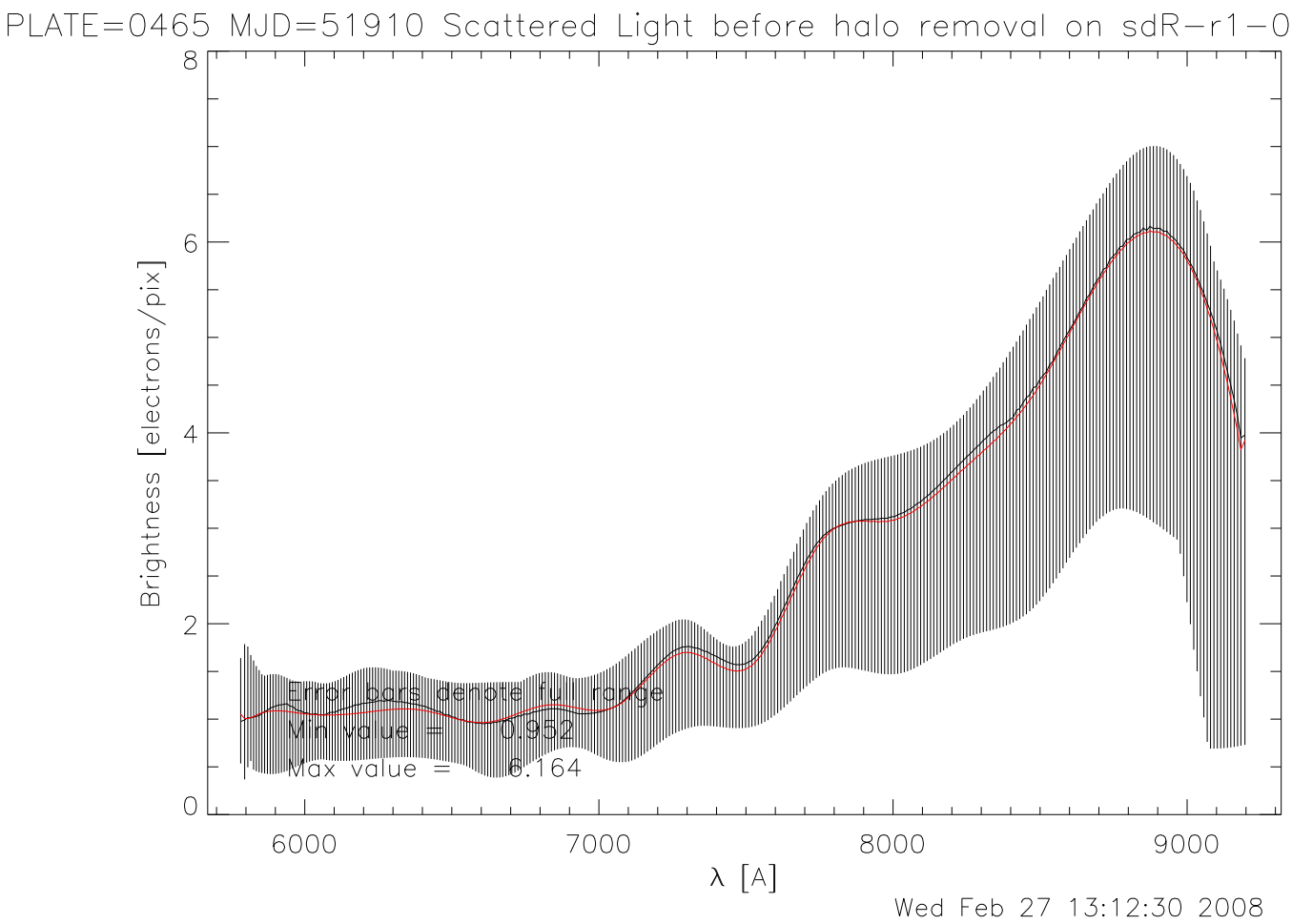

Number of sky fibers = 12
PLATE=0465 MJD=51910 sdR-r1-00008025.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

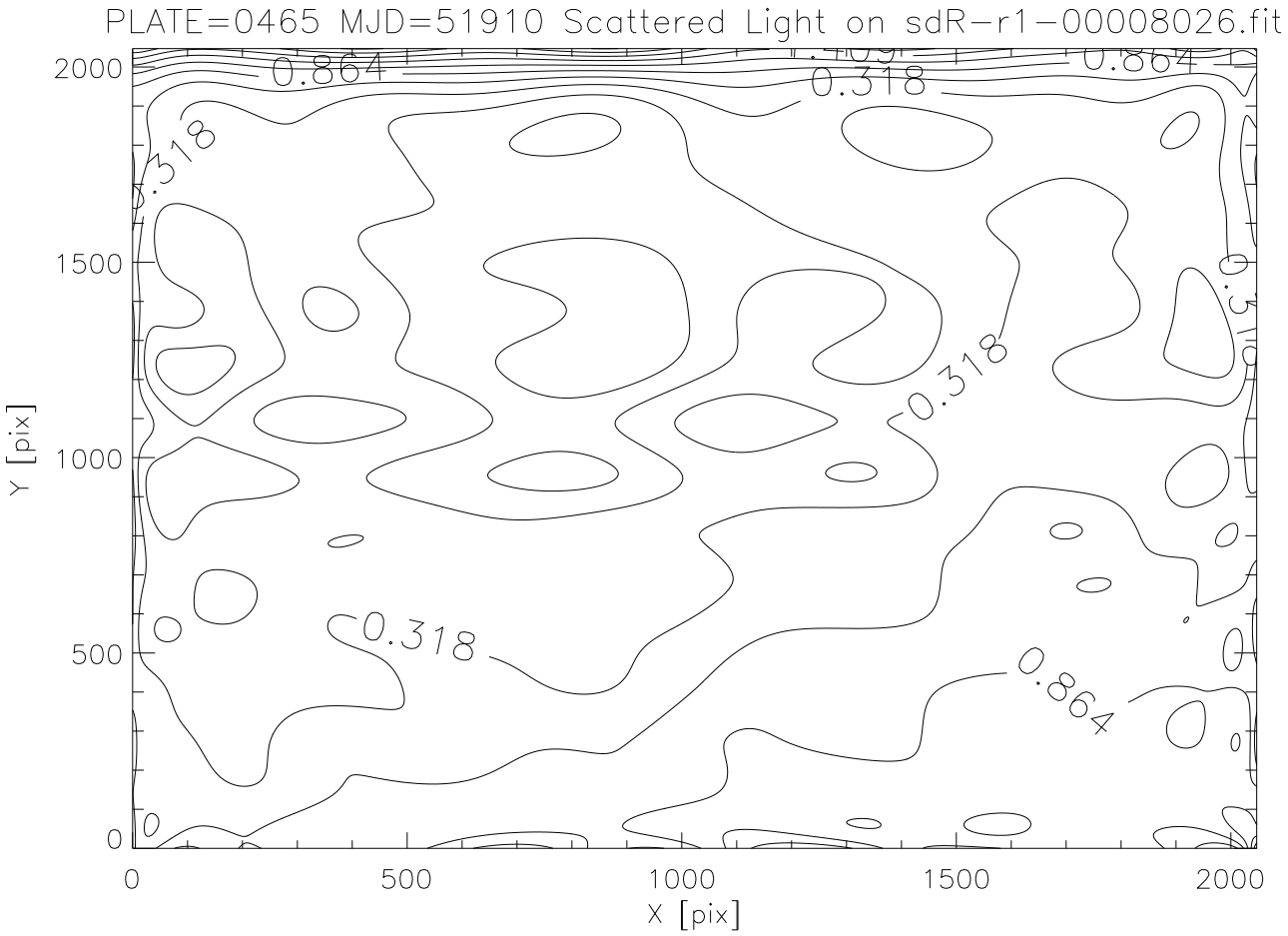

PLATE=0465 MJD=51910 sdR-r1-00008025.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.60 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

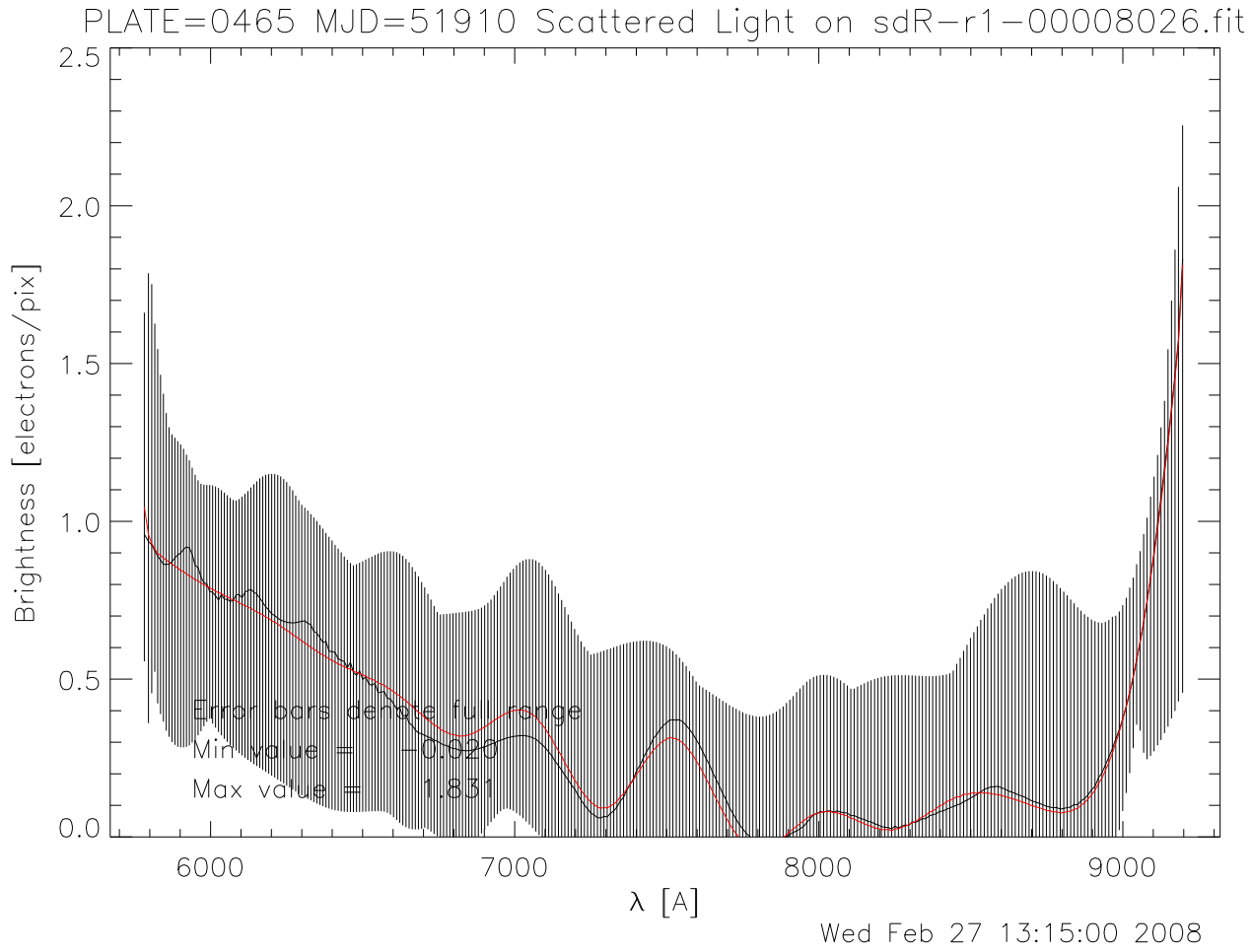

PLATE=0465 MJD=51910 sdR-r1-00008025.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.84 %
Fiber number
Focal Distance [mm]
Airmass

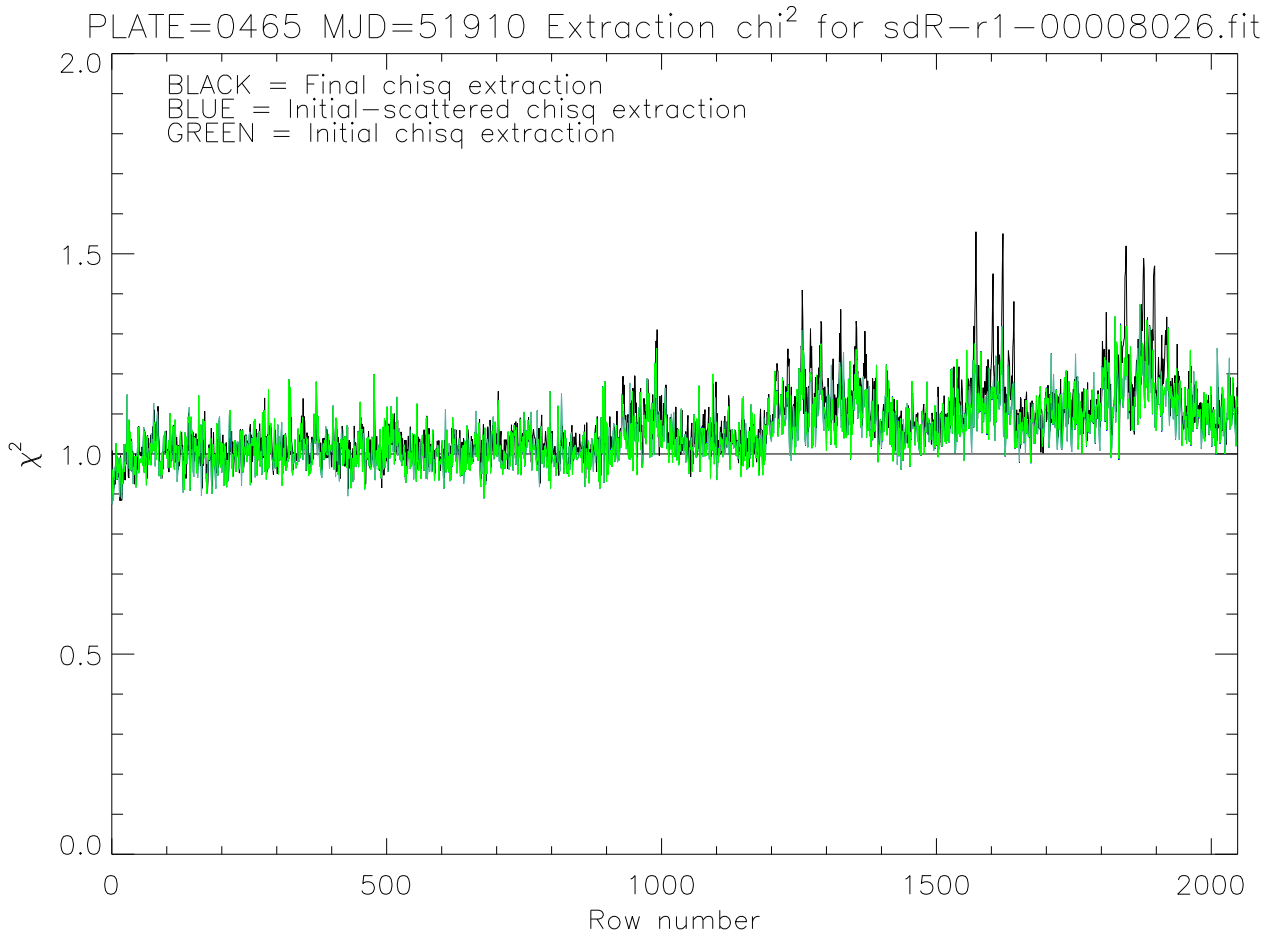

PLATE=0465 MJD=51910 Fiber−Flats for sdR−r1−00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.668
Max value = 1.438
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 13:11:53 2008

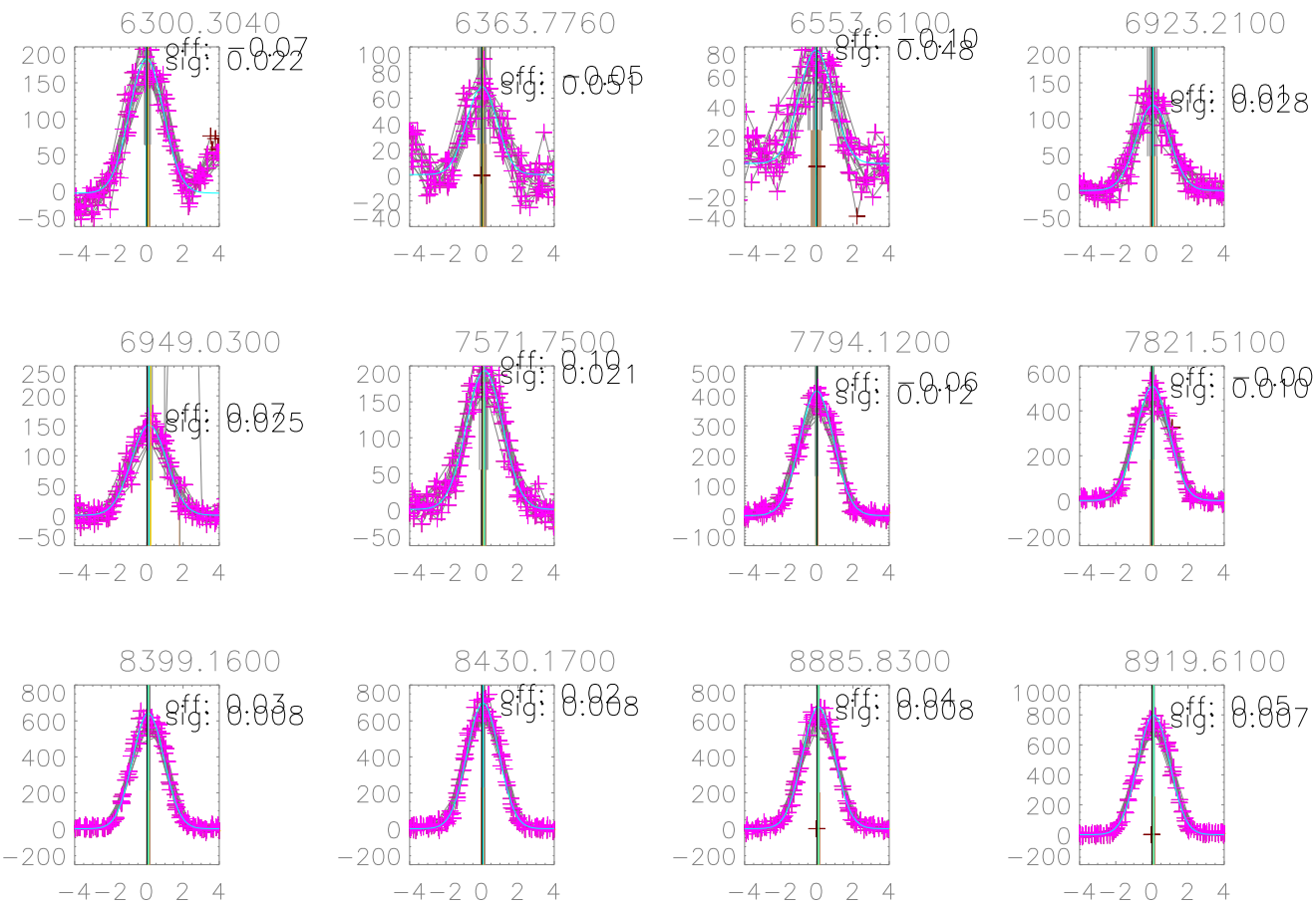

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r1-00008026.fi
5.09
6.55
5.09
5.09
3.64
3.64
2.18
0.73
0
0
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

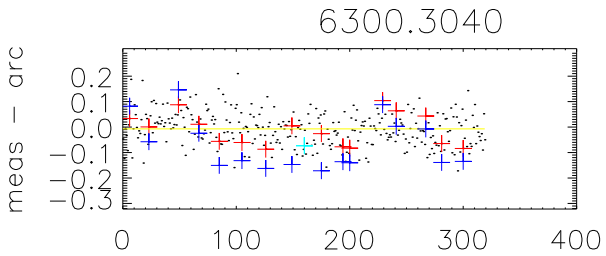

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r1-00008026.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.952
Max value = 6.164
Wed Feb 27 13:12:30 2008

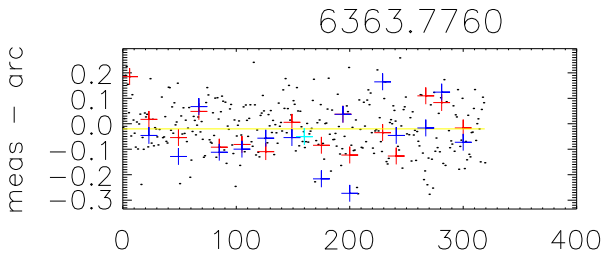

PLATE=0465 MJD=51910 Scattered Light on sdR-r1-00008026.fit
0.864
0.318
0.318
0.318
0.318
0.864
0
0
0
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

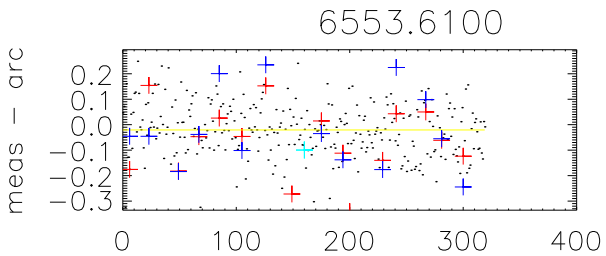

PLATE=0465 MJD=51910 Scattered Light on sdR-r1-00008026.fit
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = -0.620
Max value = 1.831
Wed Feb 27 13:15:00 2008

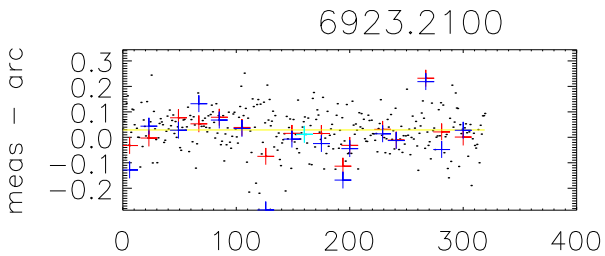

PLATE=0465 MJD=51910 Extraction chi^2 for sdR-r1-00008026.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

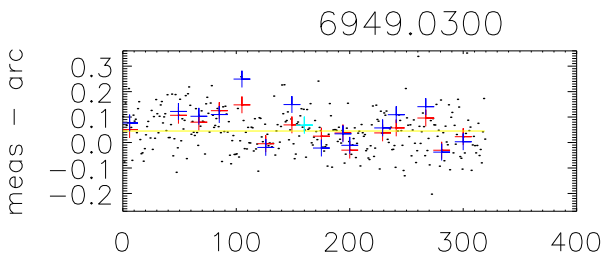

6300.3040
off: −0.07
sig: 0.022
6363.7760
off: −0.05
sig: 0.051
6553.6100
off: −0.10
sig: 0.048
6923.2100
off: 0.01
sig: 0.028
6949.0300
off: 0.07
sig: 0.025
7571.7500
off: 0.10
sig: 0.021
7794.1200
off: −0.06
sig: 0.012
7821.5100
off: −0.00
sig: 0.010
8399.1600
off: 0.03
sig: 0.008
8430.1700
off: 0.02
sig: 0.008
8885.8300
off: 0.04
sig: 0.008
8919.6100
off: 0.05
sig: 0.007

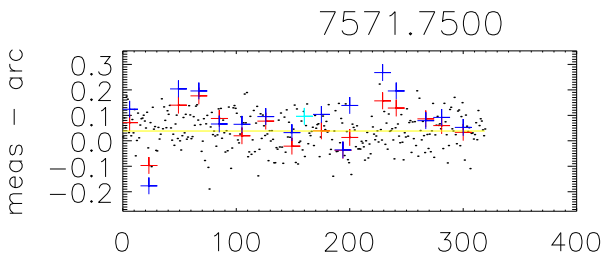

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

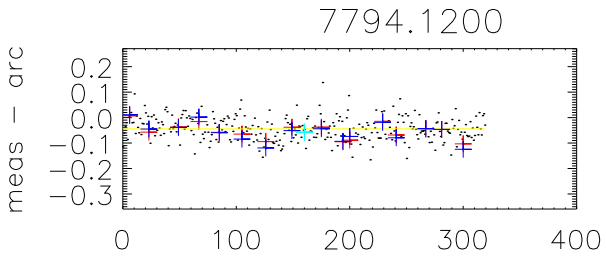

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

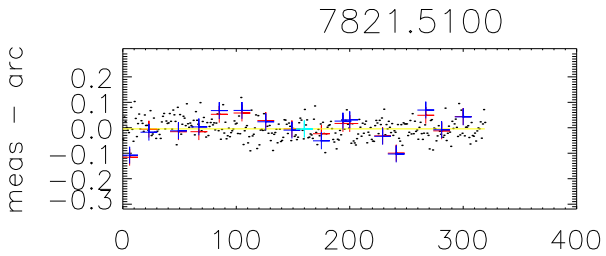

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

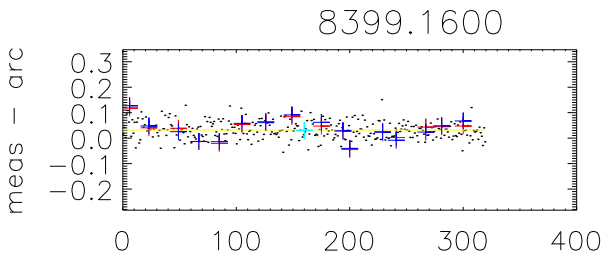

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

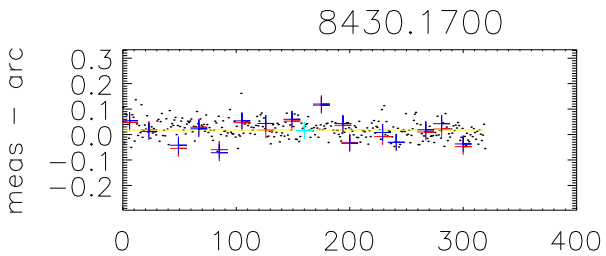

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

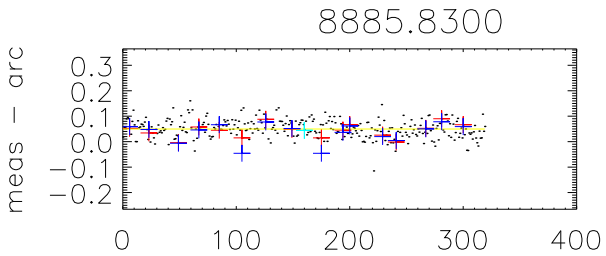

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

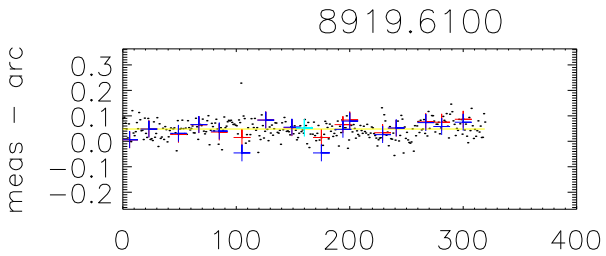

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

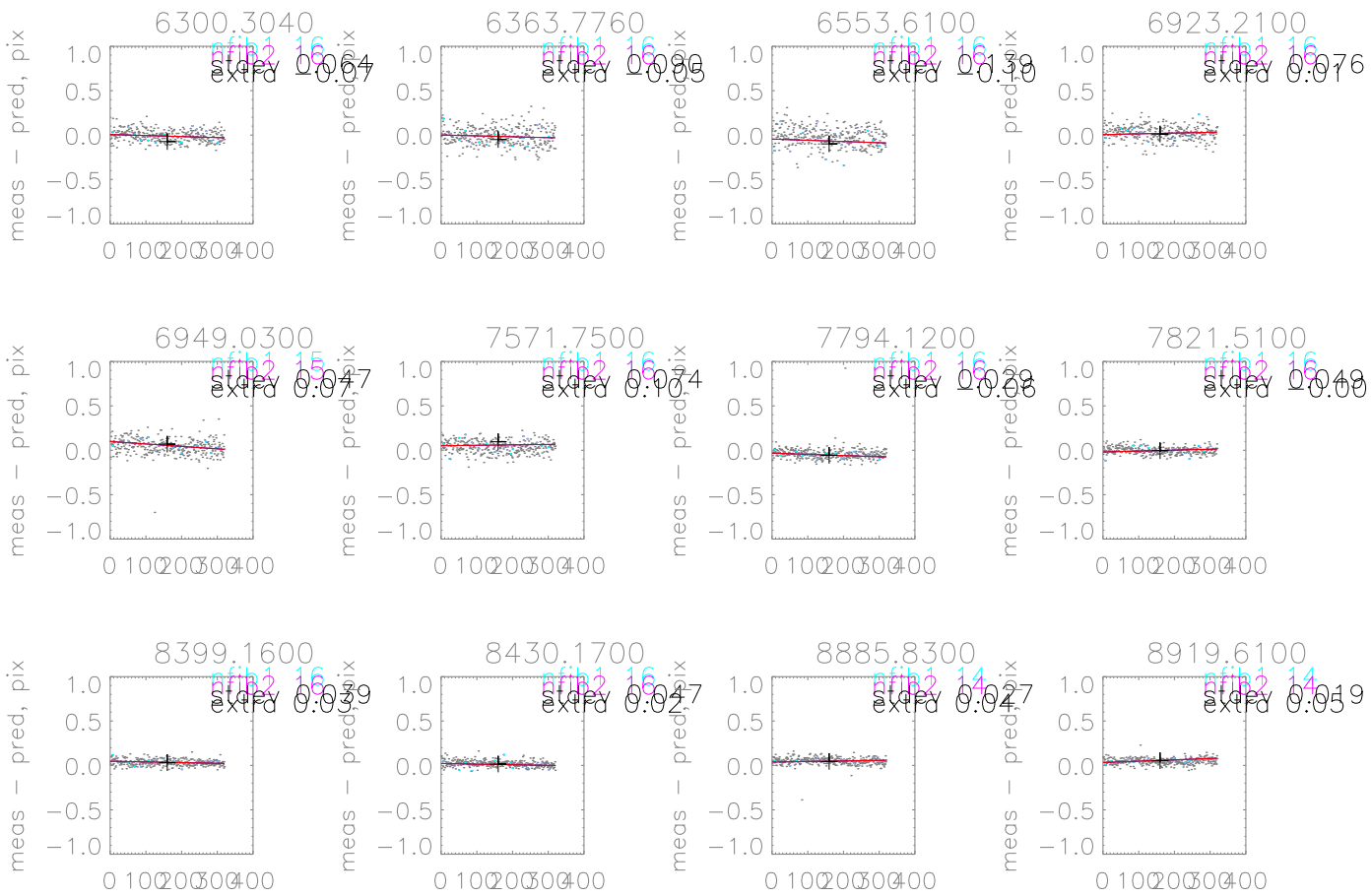

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

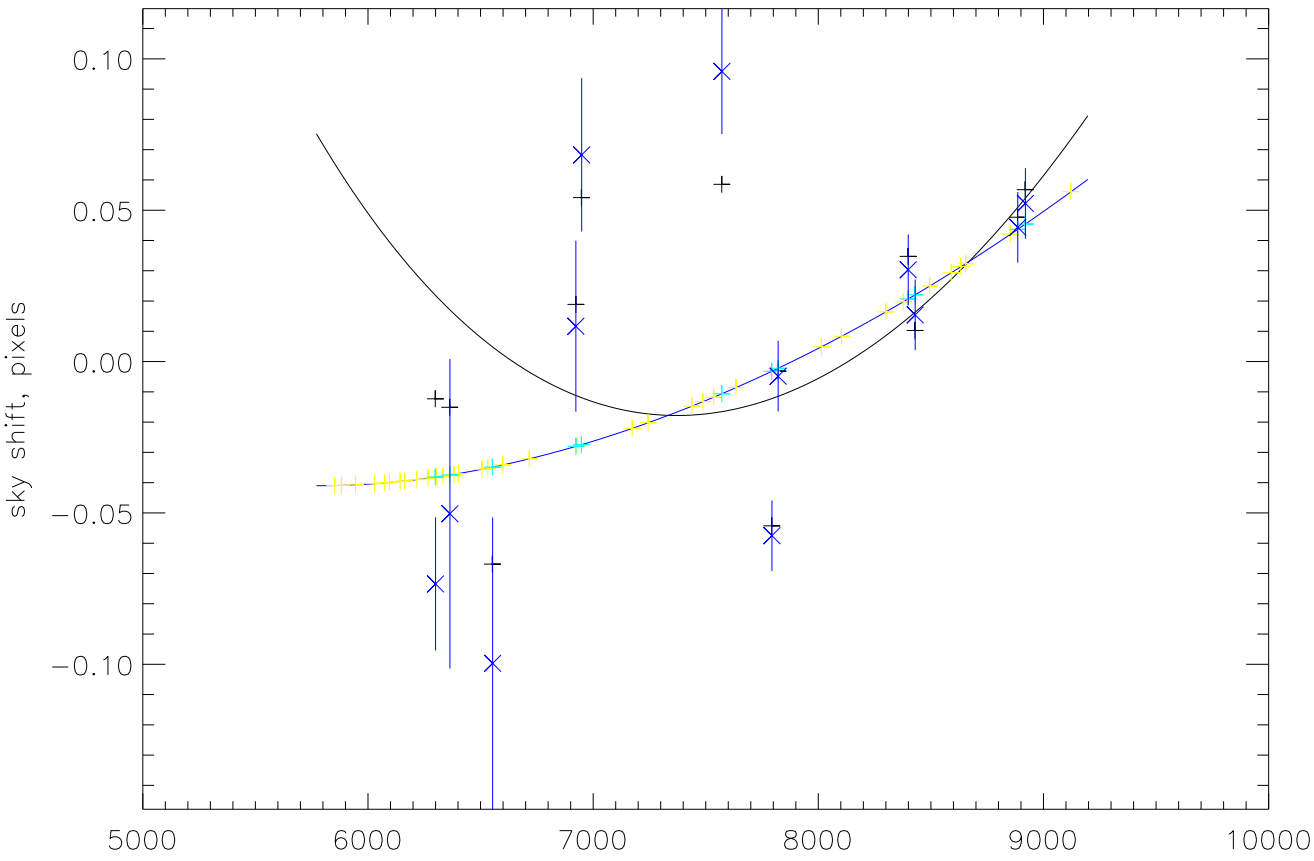

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

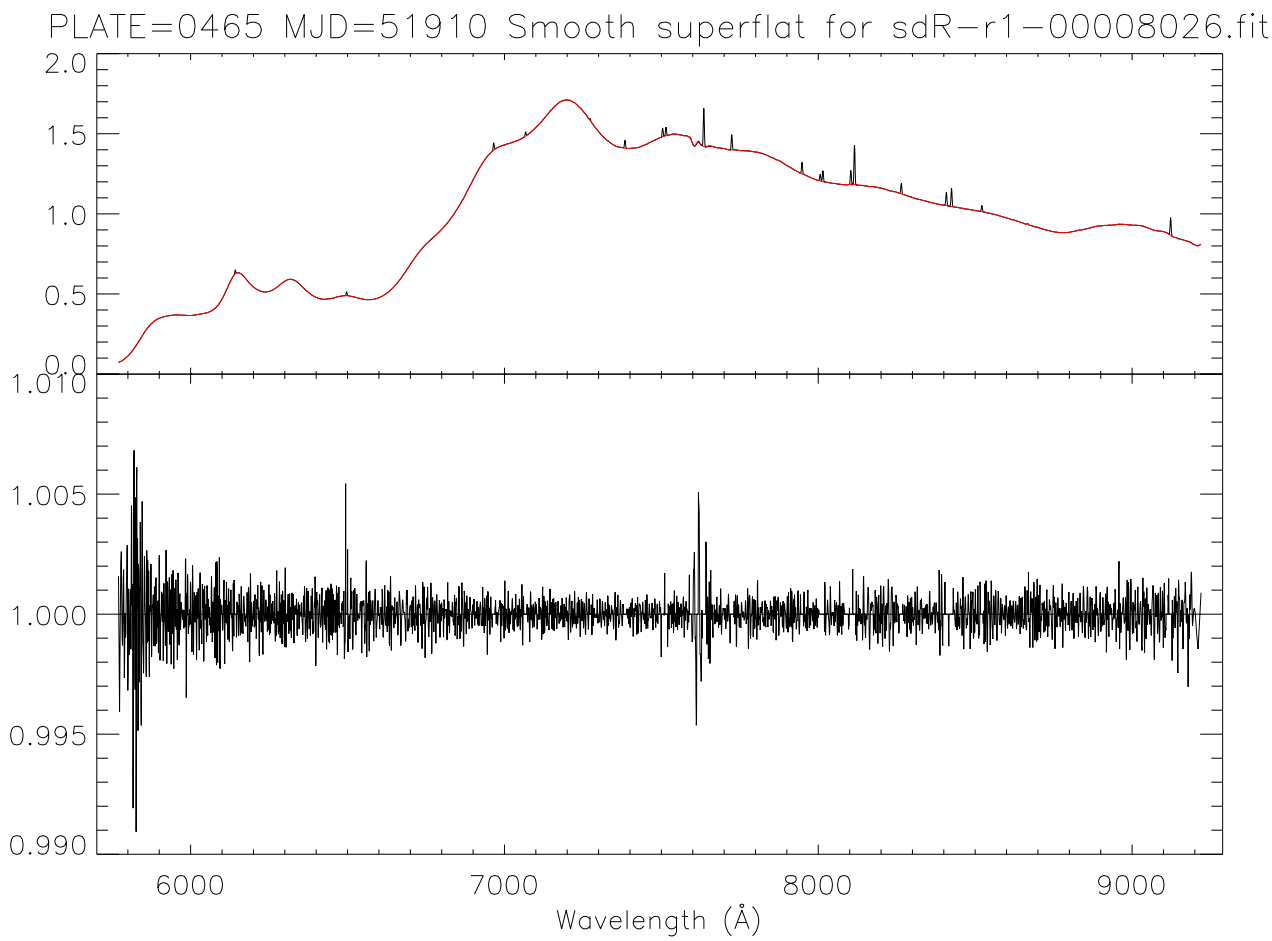

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

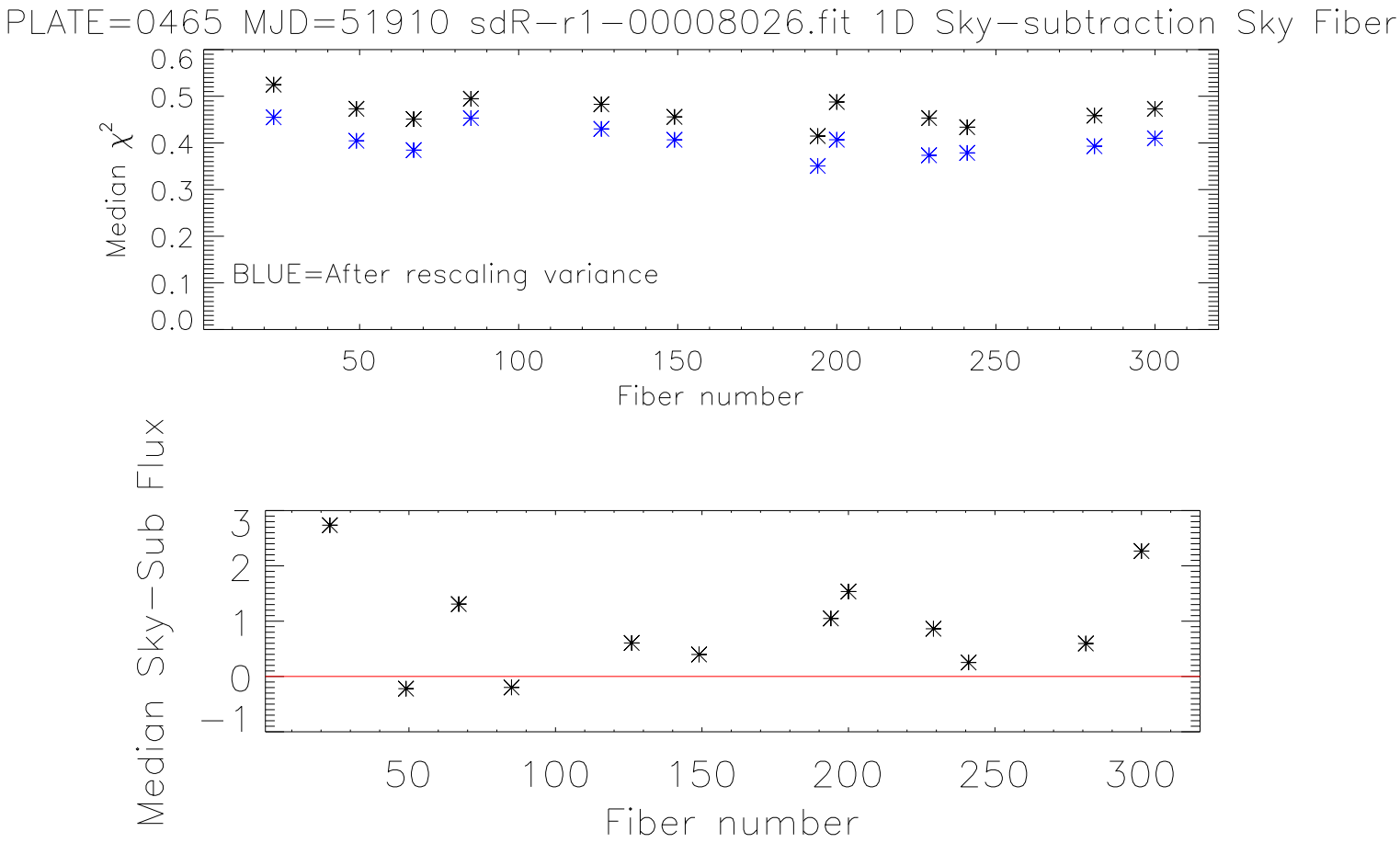

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

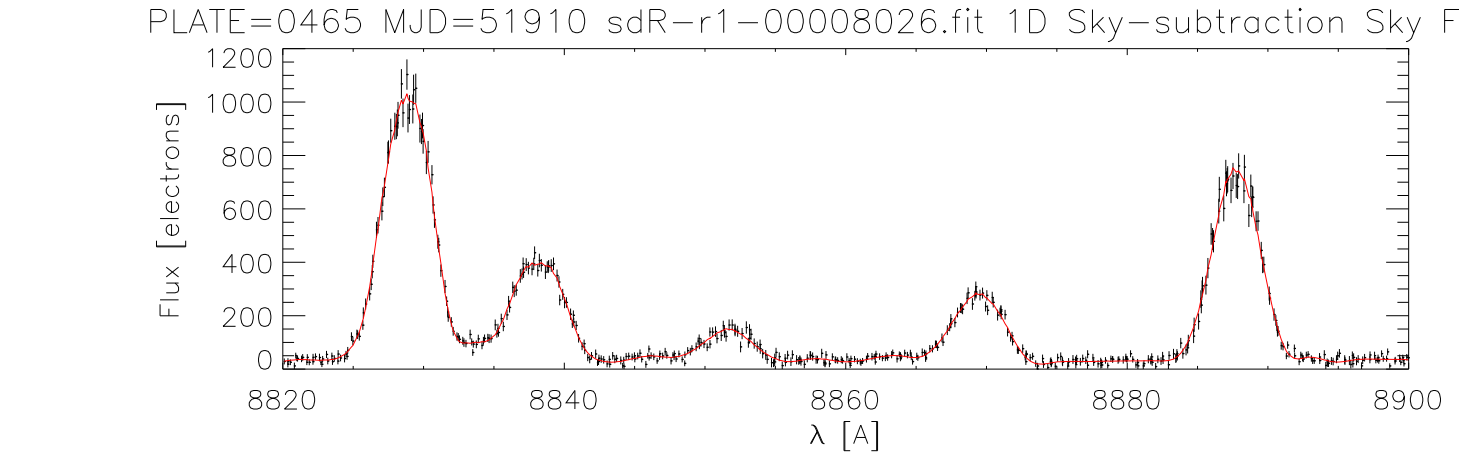

6300.3040
mfib1 16
mfib2 16
stdev 0.064
extra −0.07
6363.7760
mfib1 16
mfib2 16
stdev 0.080
extra −0.05
6553.6100
mfib1 16
mfib2 16
stdev 0.139
extra −0.10
6923.2100
mfib1 16
mfib2 16
stdev 0.076
extra 0.01
6949.0300
mfib1 15
mfib2 16
stdev 0.047
extra 0.07
7571.7500
mfib1 16
mfib2 16
stdev 0.074
extra 0.10
7794.1200
mfib1 16
mfib2 16
stdev 0.029
extra −0.08
7821.5100
mfib1 16
mfib2 16
stdev 0.049
extra −0.00
8399.1600
mfib1 16
mfib2 16
stdev 0.039
extra 0.03
8430.1700
mfib1 16
mfib2 16
stdev 0.047
extra 0.02
8885.8300
mfib1 14
mfib2 14
stdev 0.027
extra 0.04
8919.6100
mfib1 14
mfib2 14
stdev 0.019
extra 0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

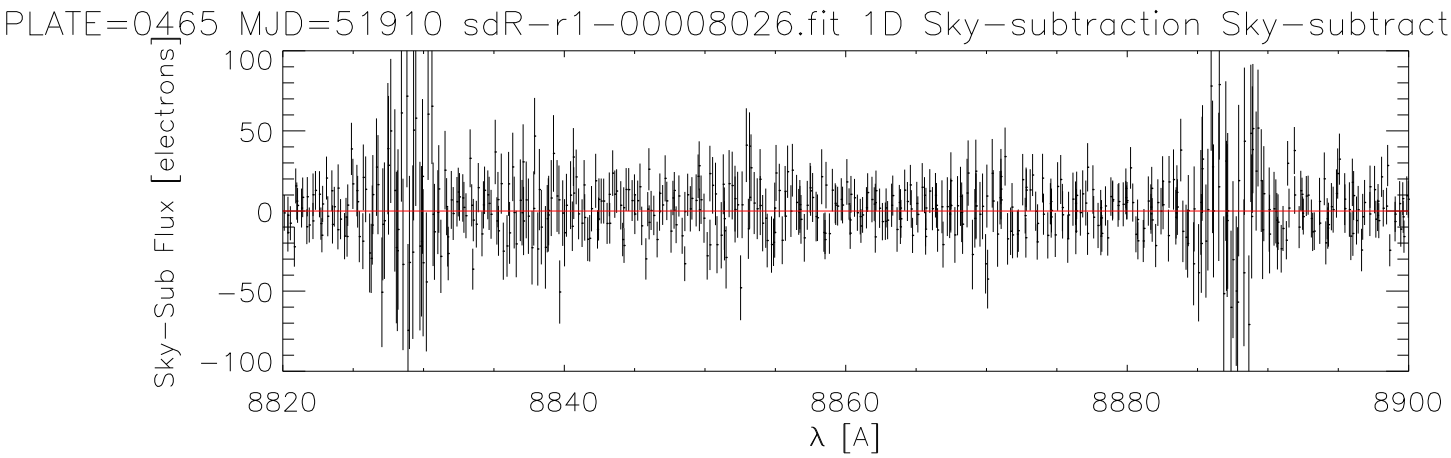

0.10
0.05
0.00
−0.05
−0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

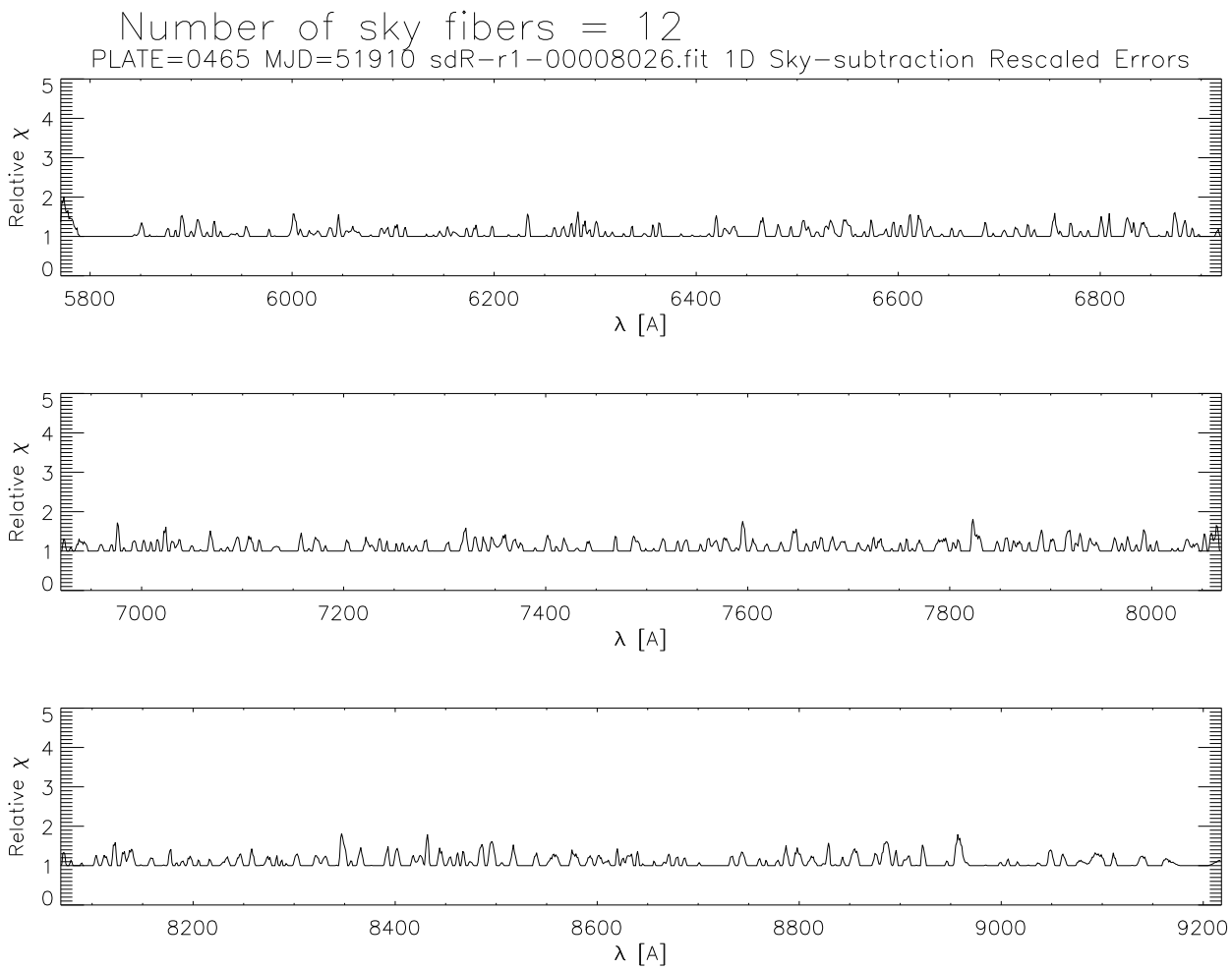
es= 0.0000

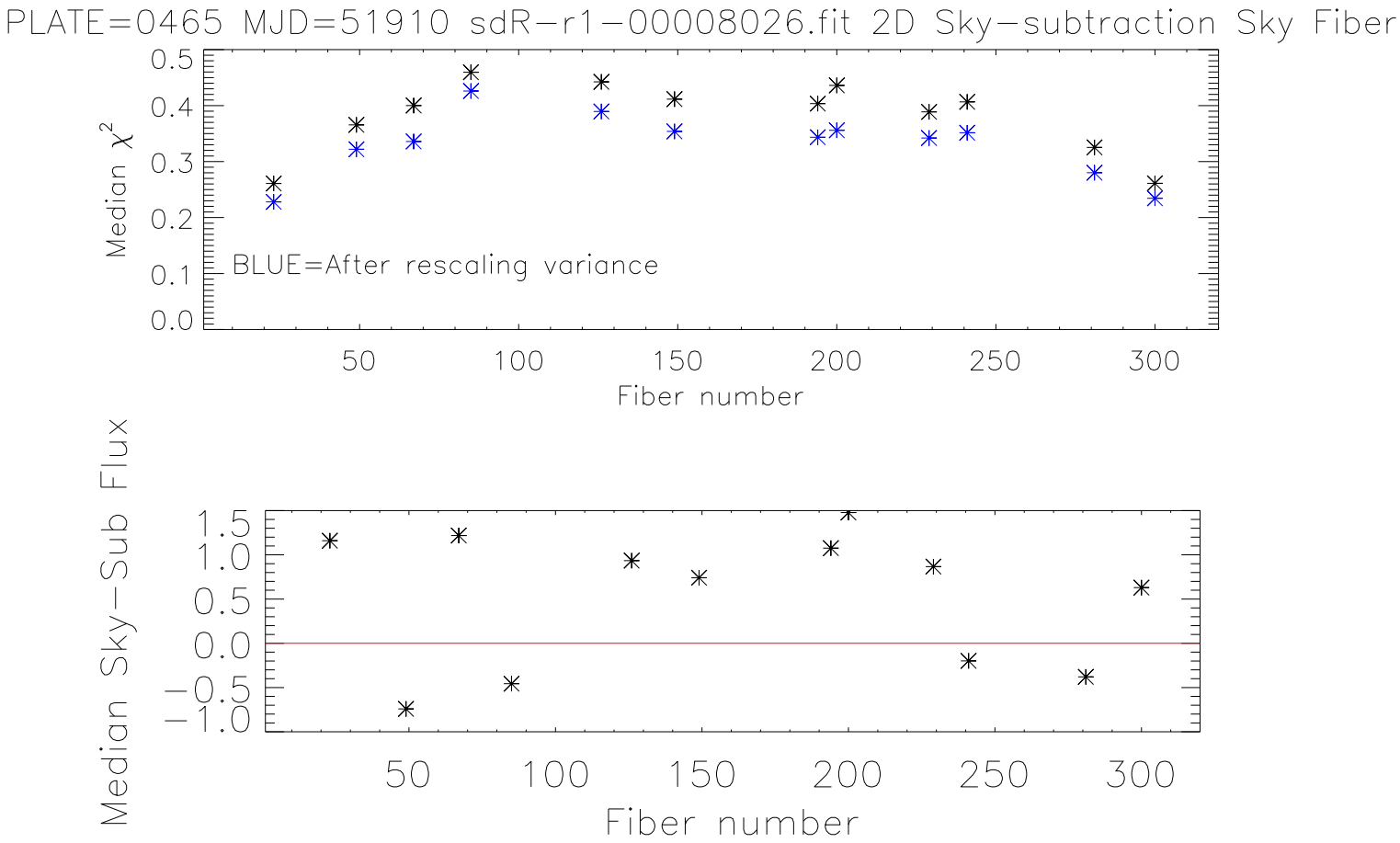

PLATE=0465 MJD=51910 Smooth superflat for sdR-r1-00008026.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

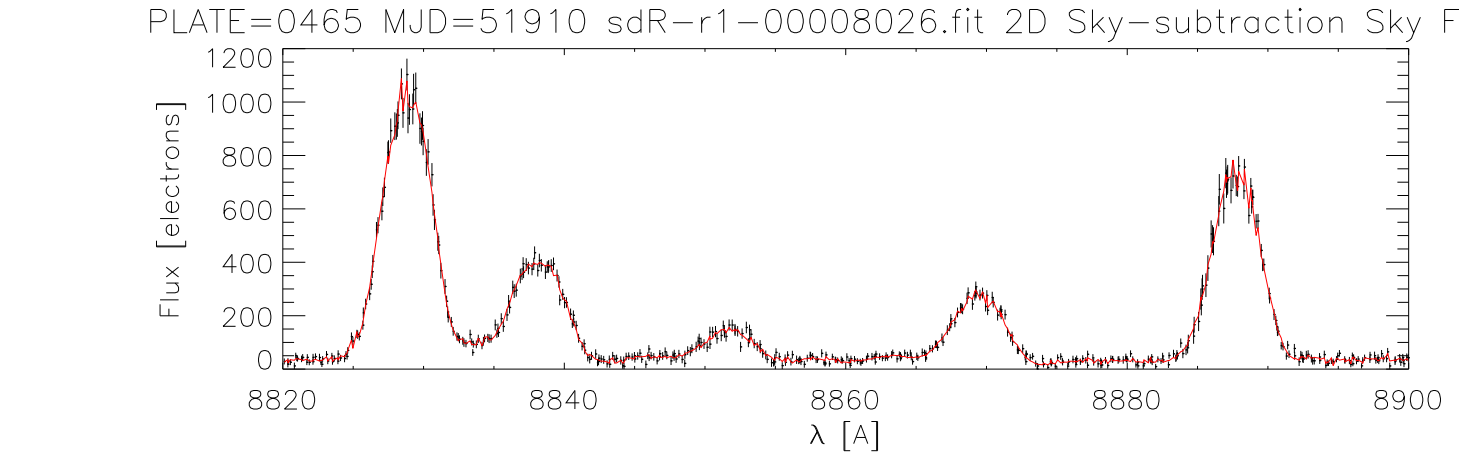

PLATE=0465 MJD=51910 sdR-r1-00008026.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

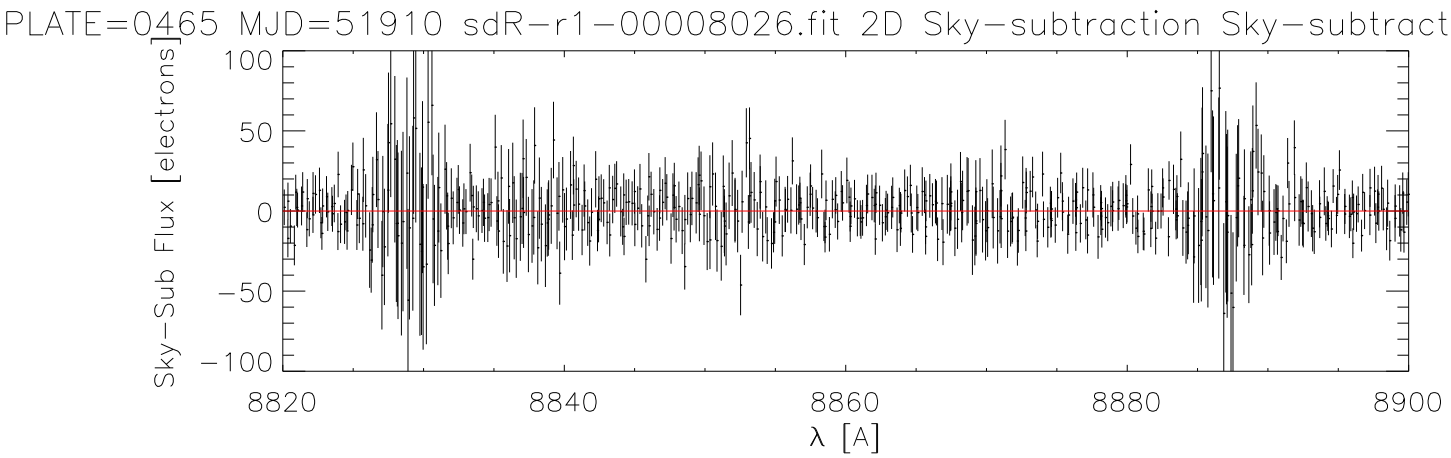

PLATE=0465 MJD=51910 sdR-r1-00008026.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
8820
8840
8860
8880
8900
λ [A]

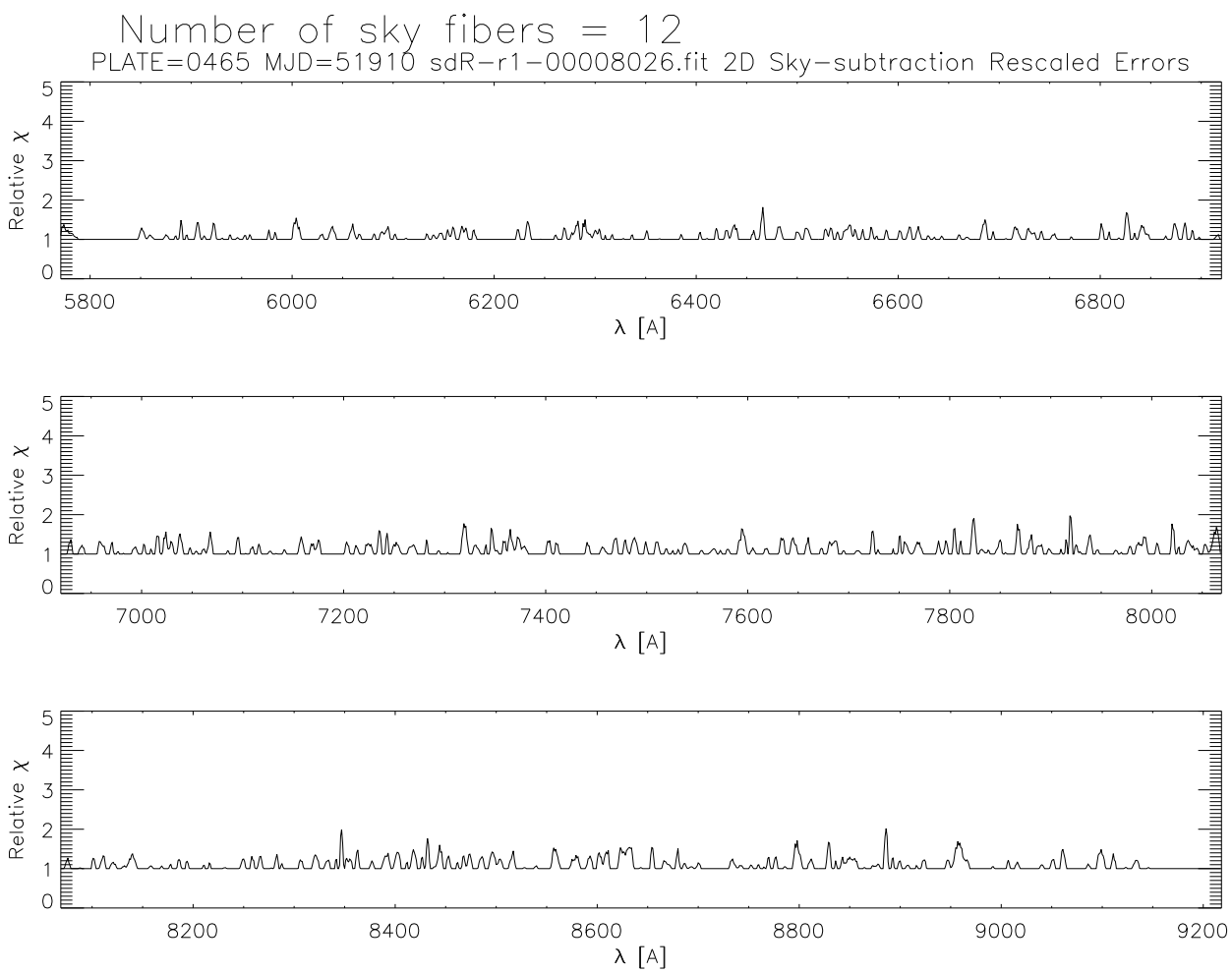

PLATE=0465 MJD=51910 sdR-r1-00008026.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

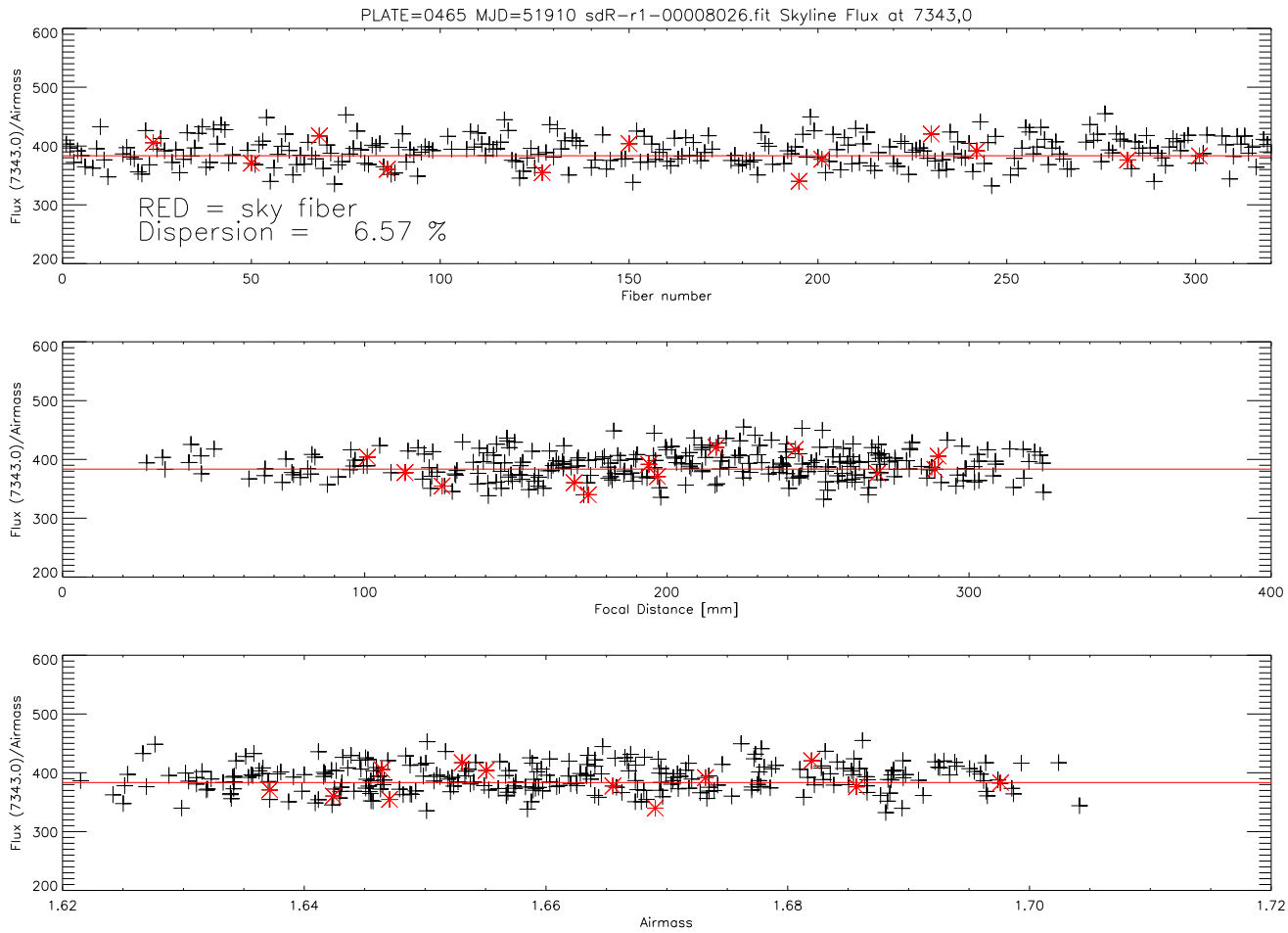

Number of sky fibers = 12
PLATE=0465 MJD=51910 sdR-r1-00008026.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

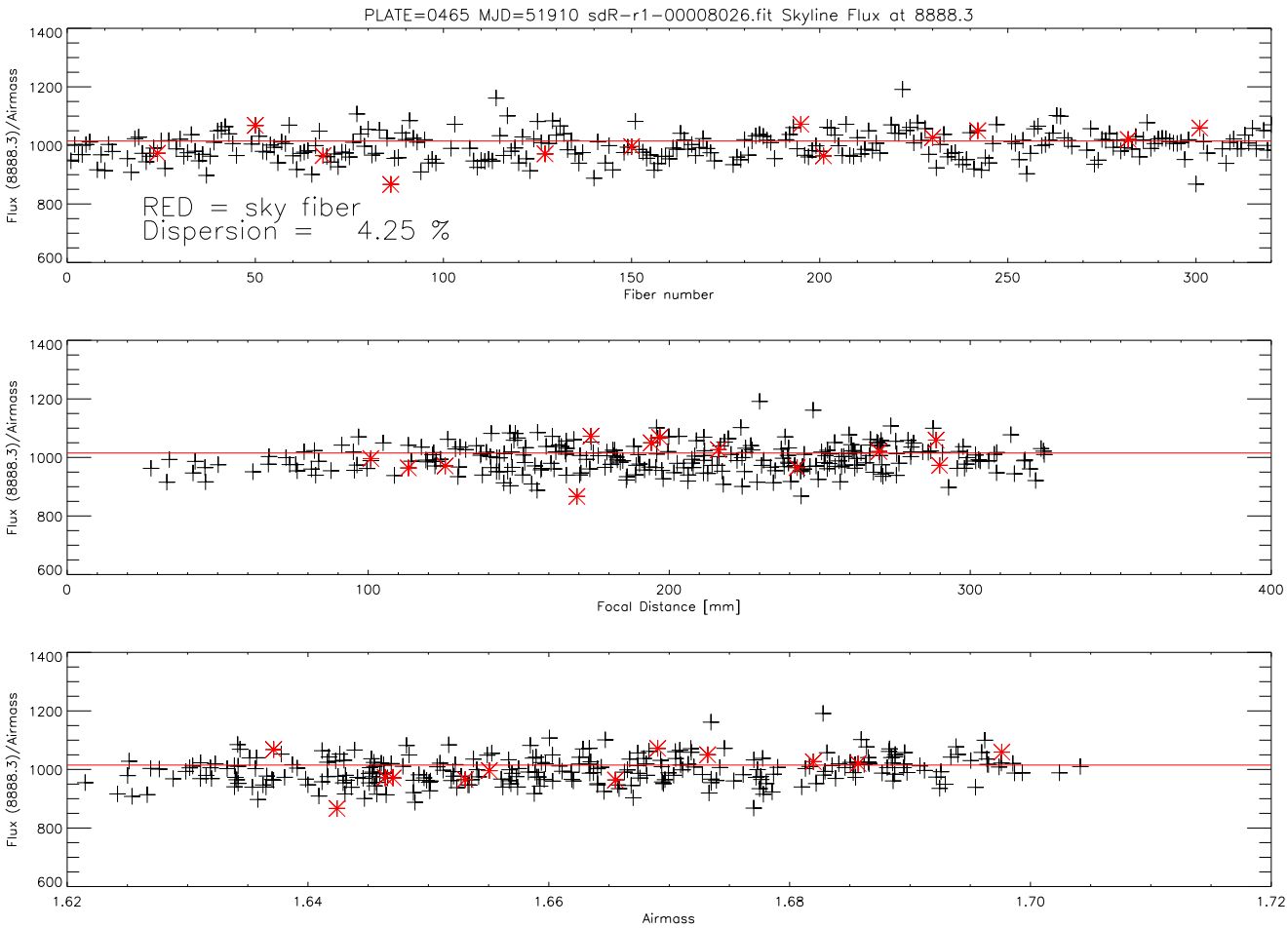

PLATE=0465 MJD=51910 sdR-r1-00008026.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

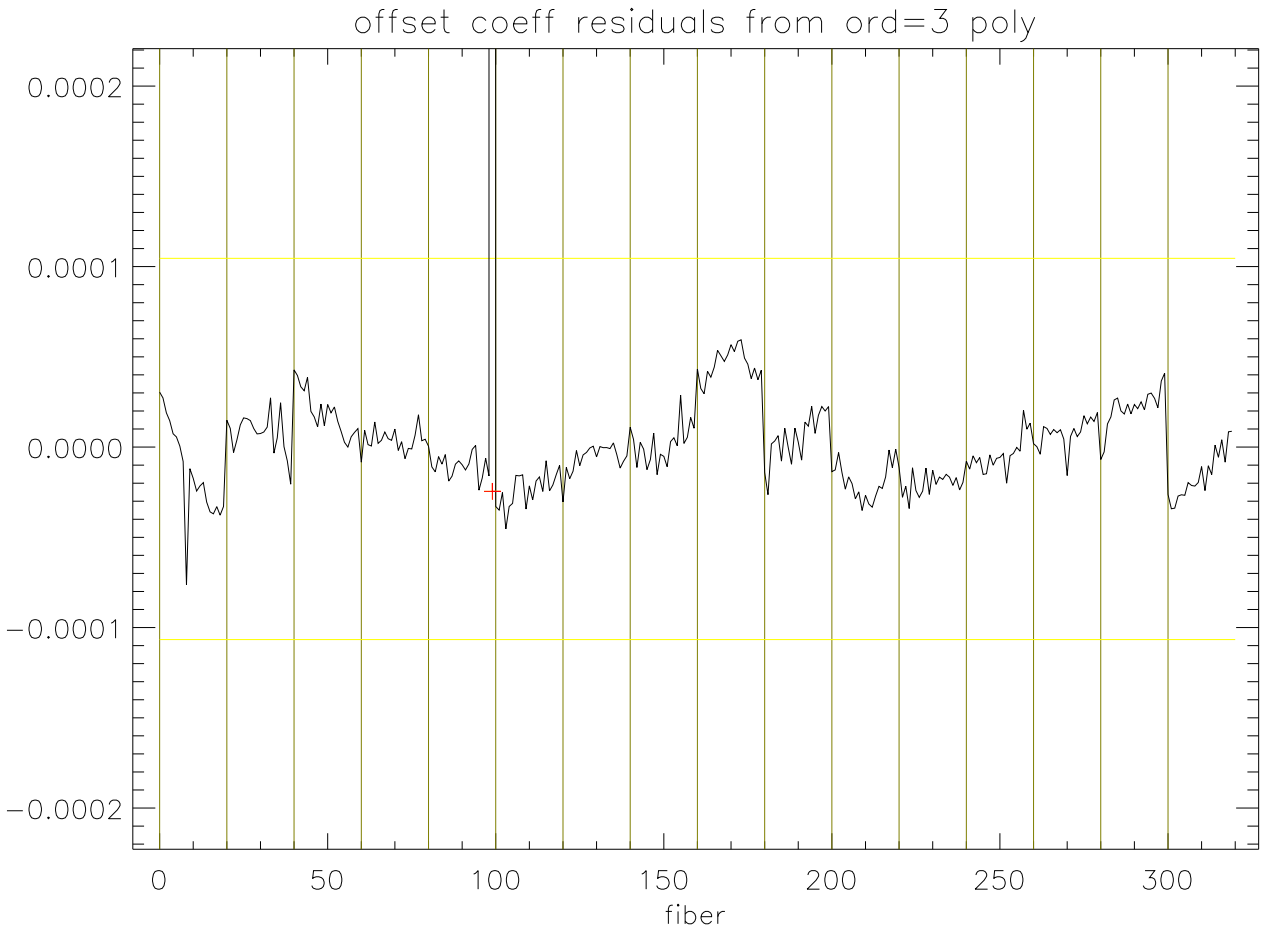

PLATE=0465 MJD=51910 sdR-r1-00008026.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
8820
8840
8860
8880
8900
λ [A]

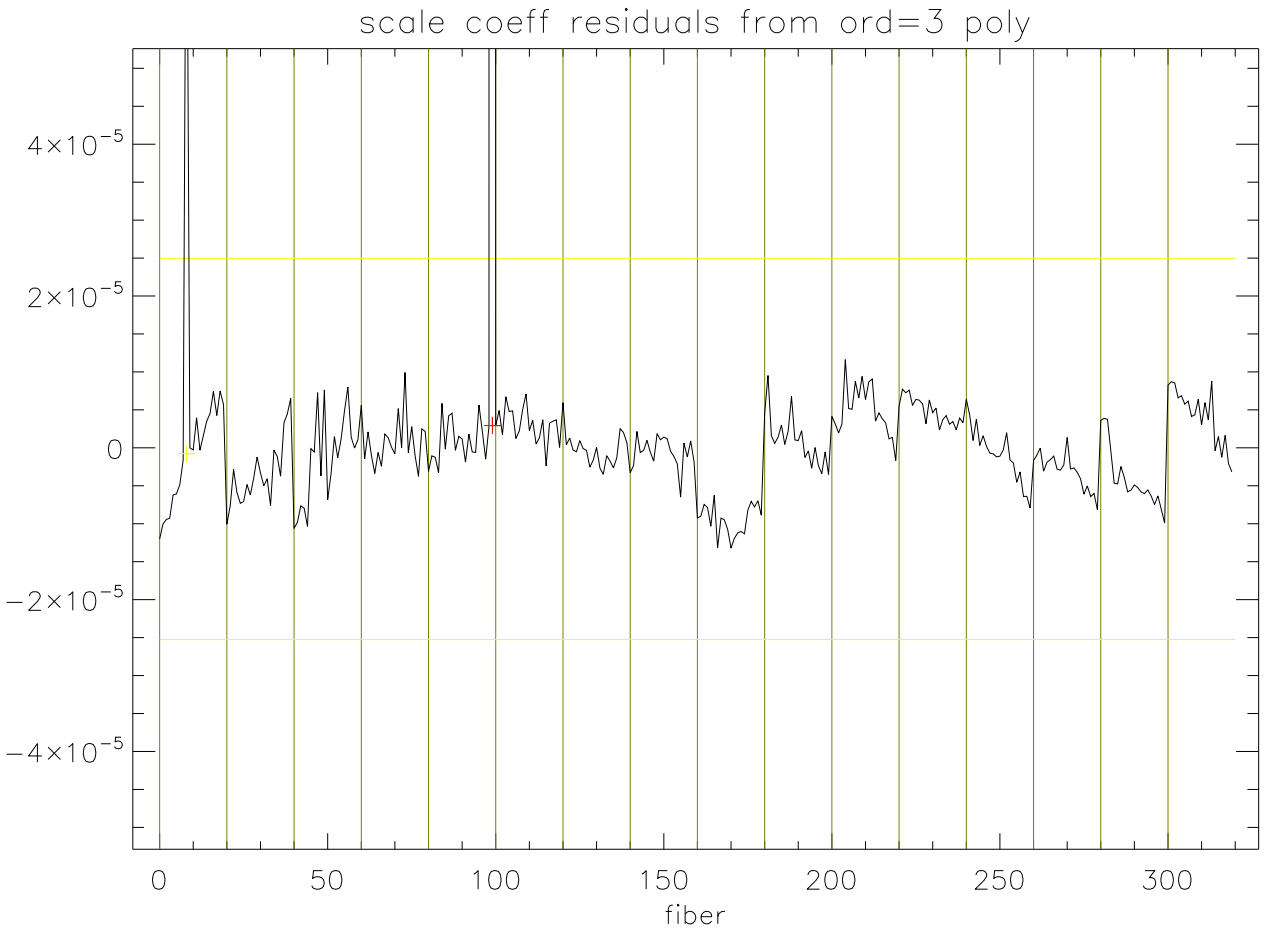

PLATE=0465 MJD=51910 sdR-r1-00008026.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

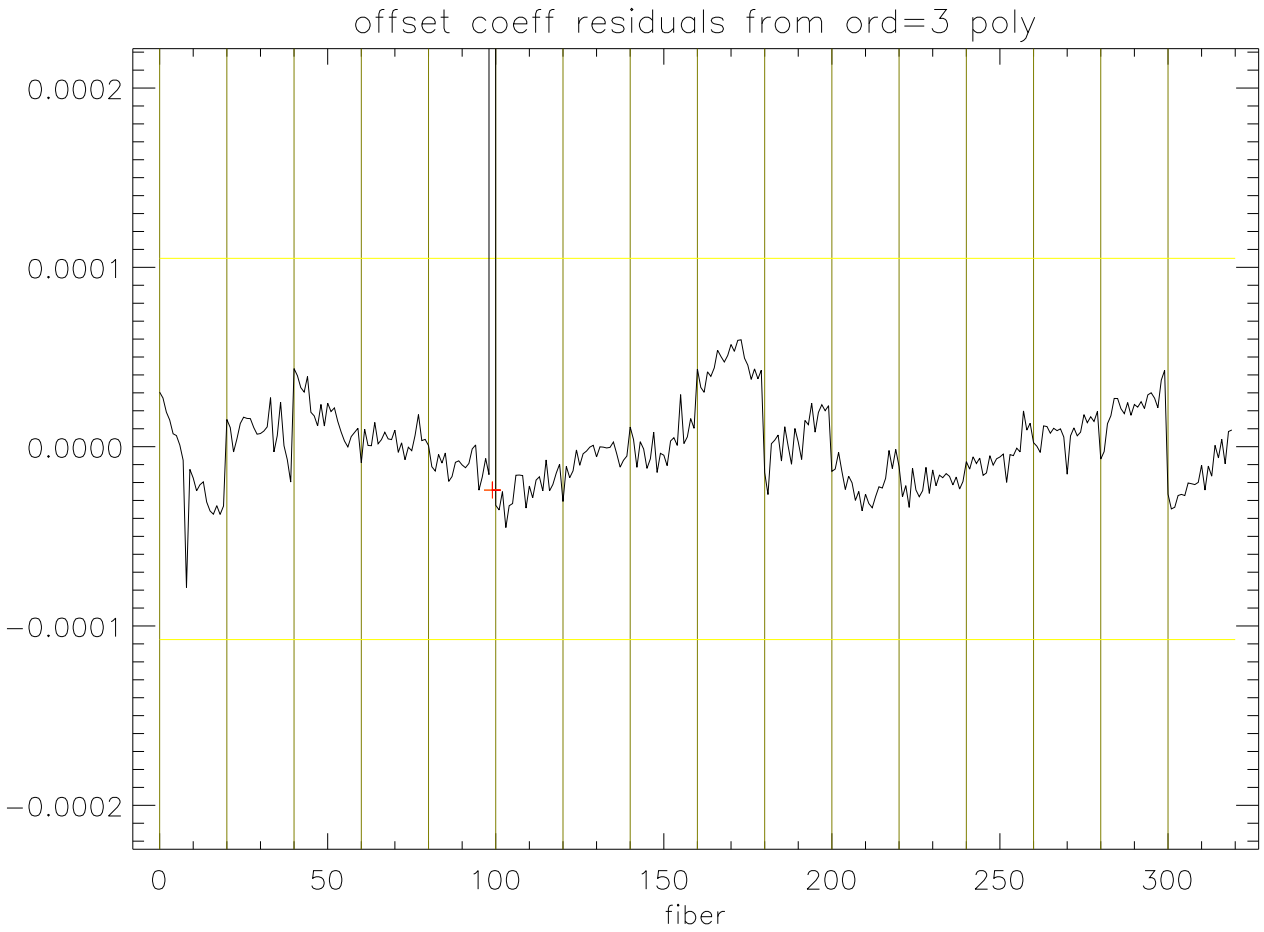

Number of sky fibers = 12
PLATE=0465 MJD=51910 sdR-r1-00008026.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

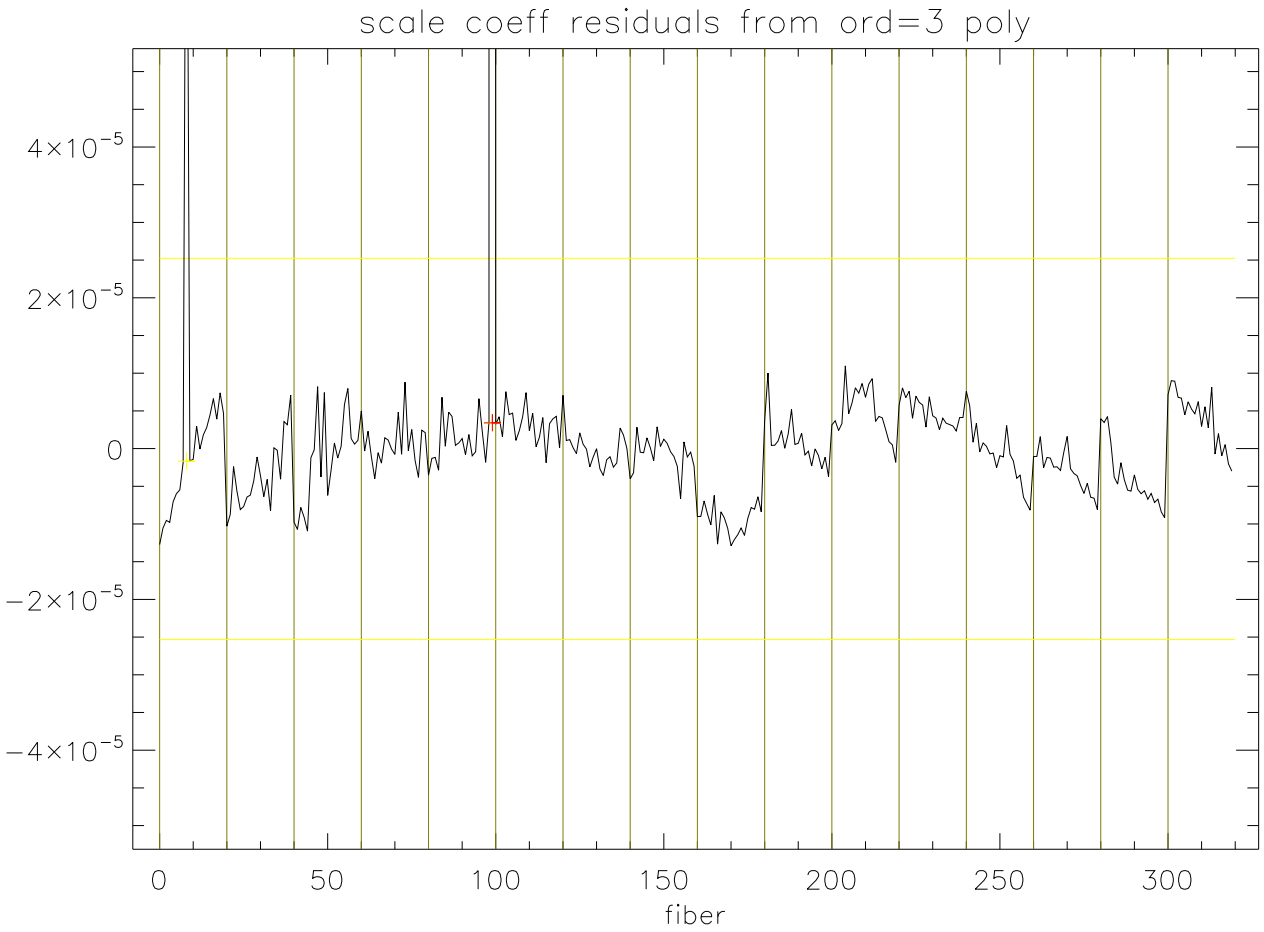

PLATE=0465 MJD=51910 sdR-r1-00008026.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 6.57 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

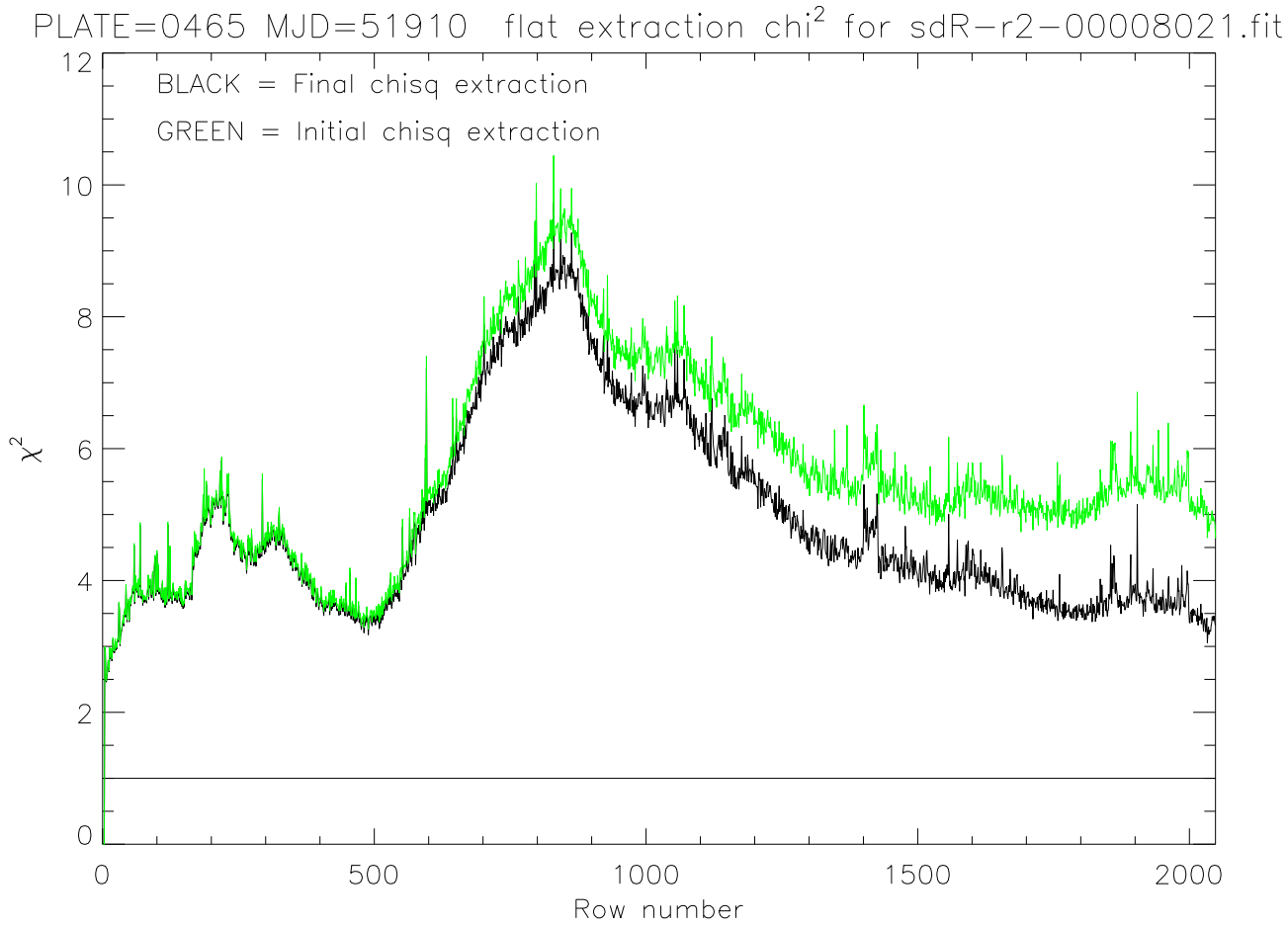

PLATE=0465 MJD=51910 sdR-r1-00008026.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.25 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

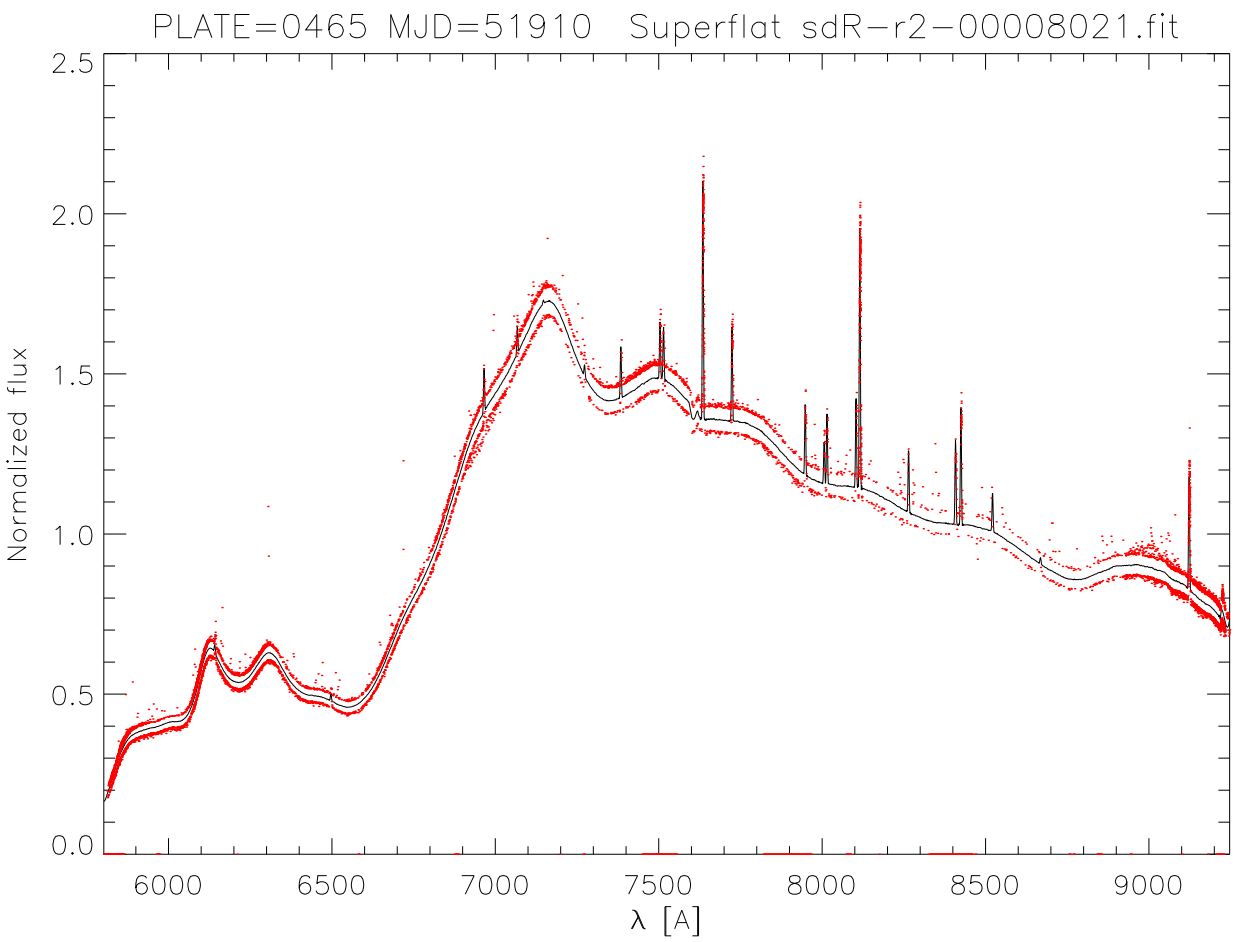

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

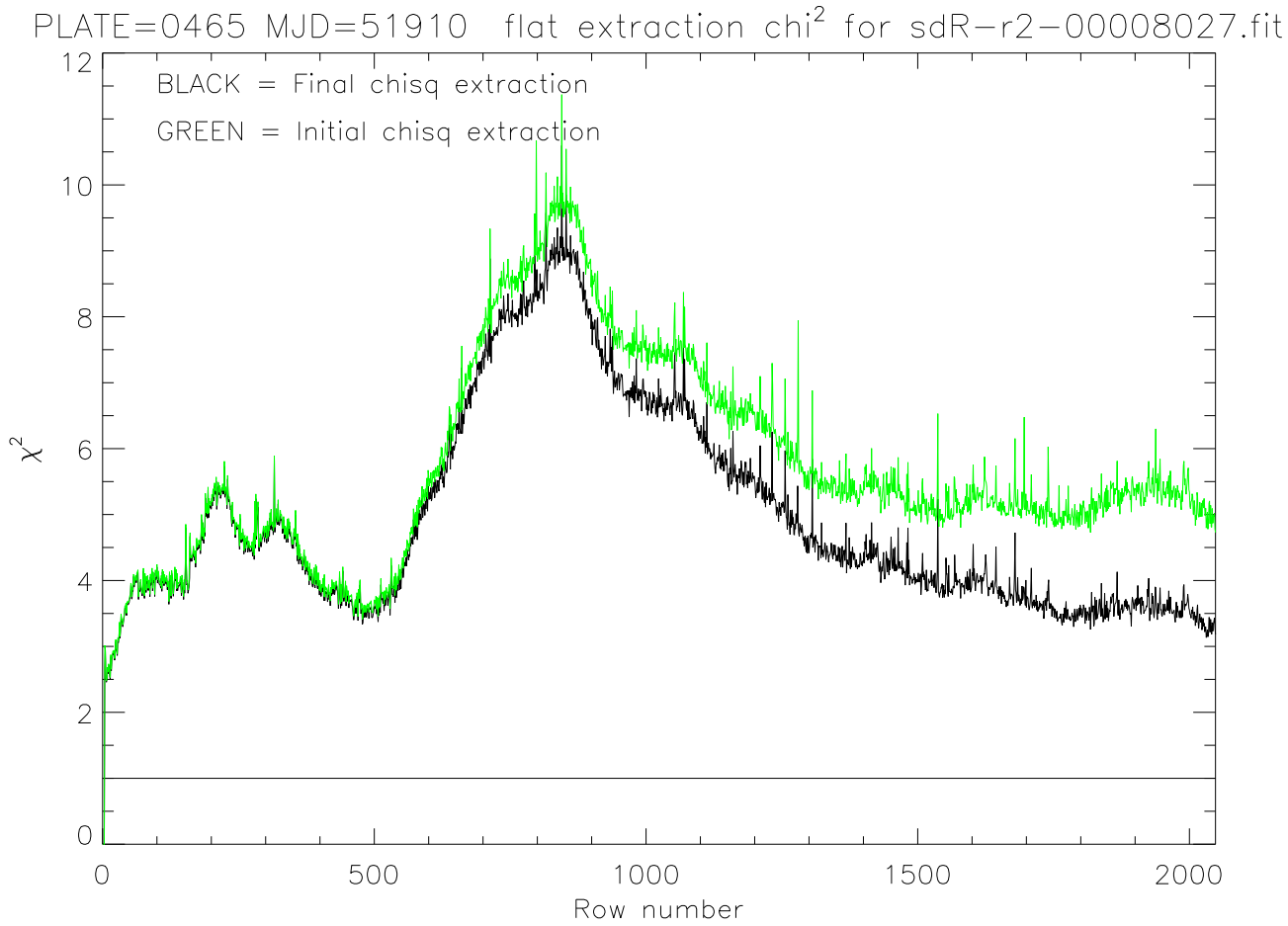

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

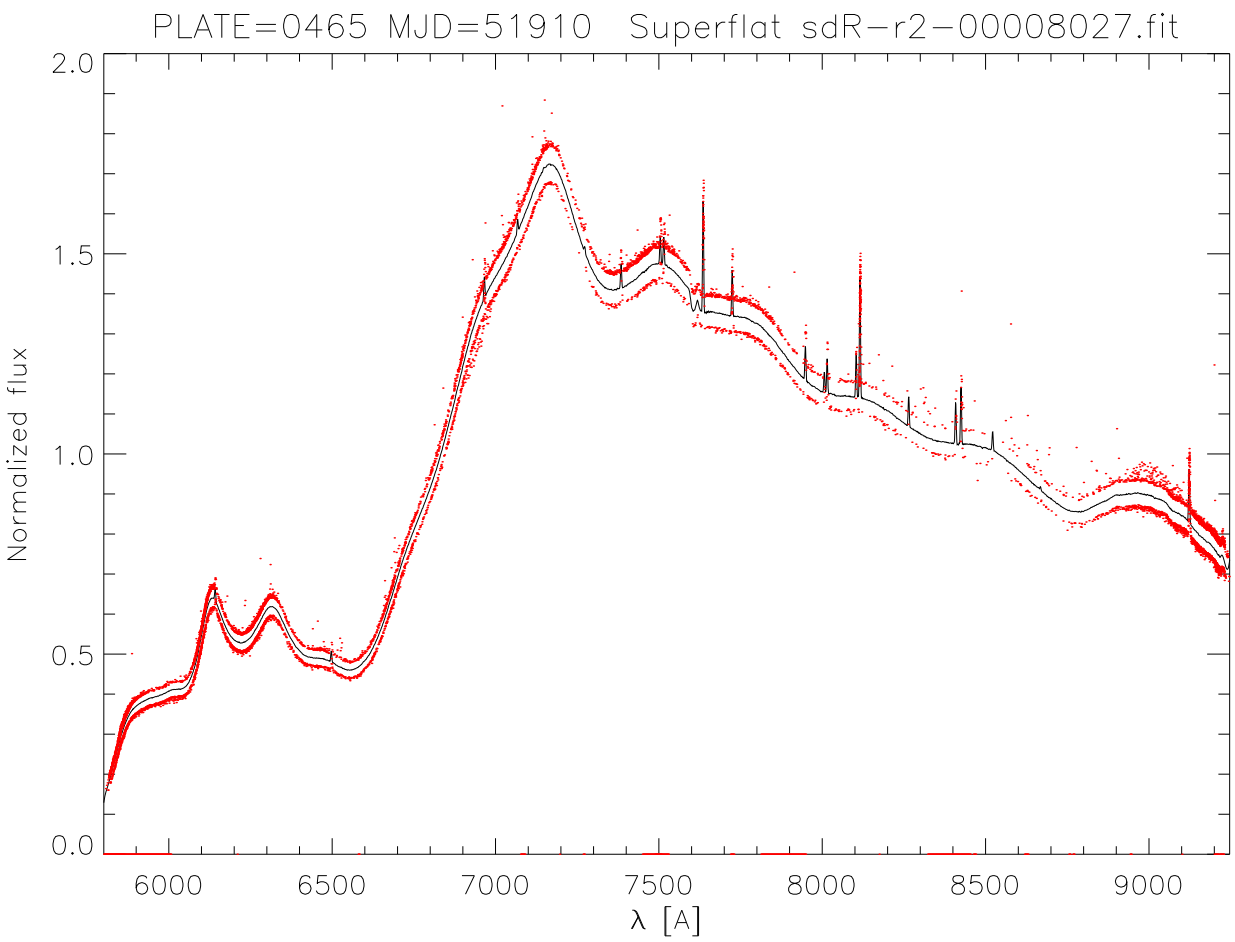

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

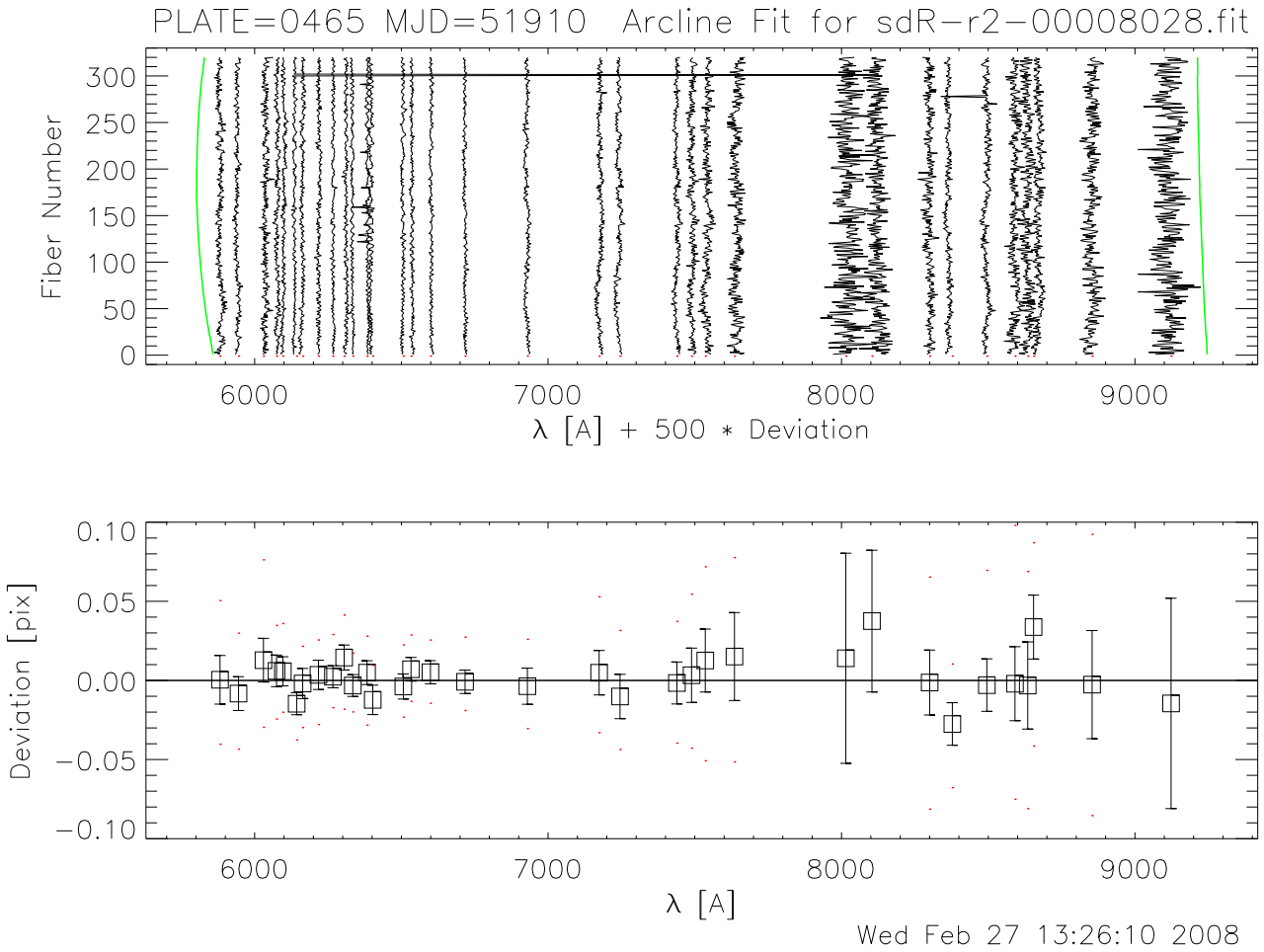

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

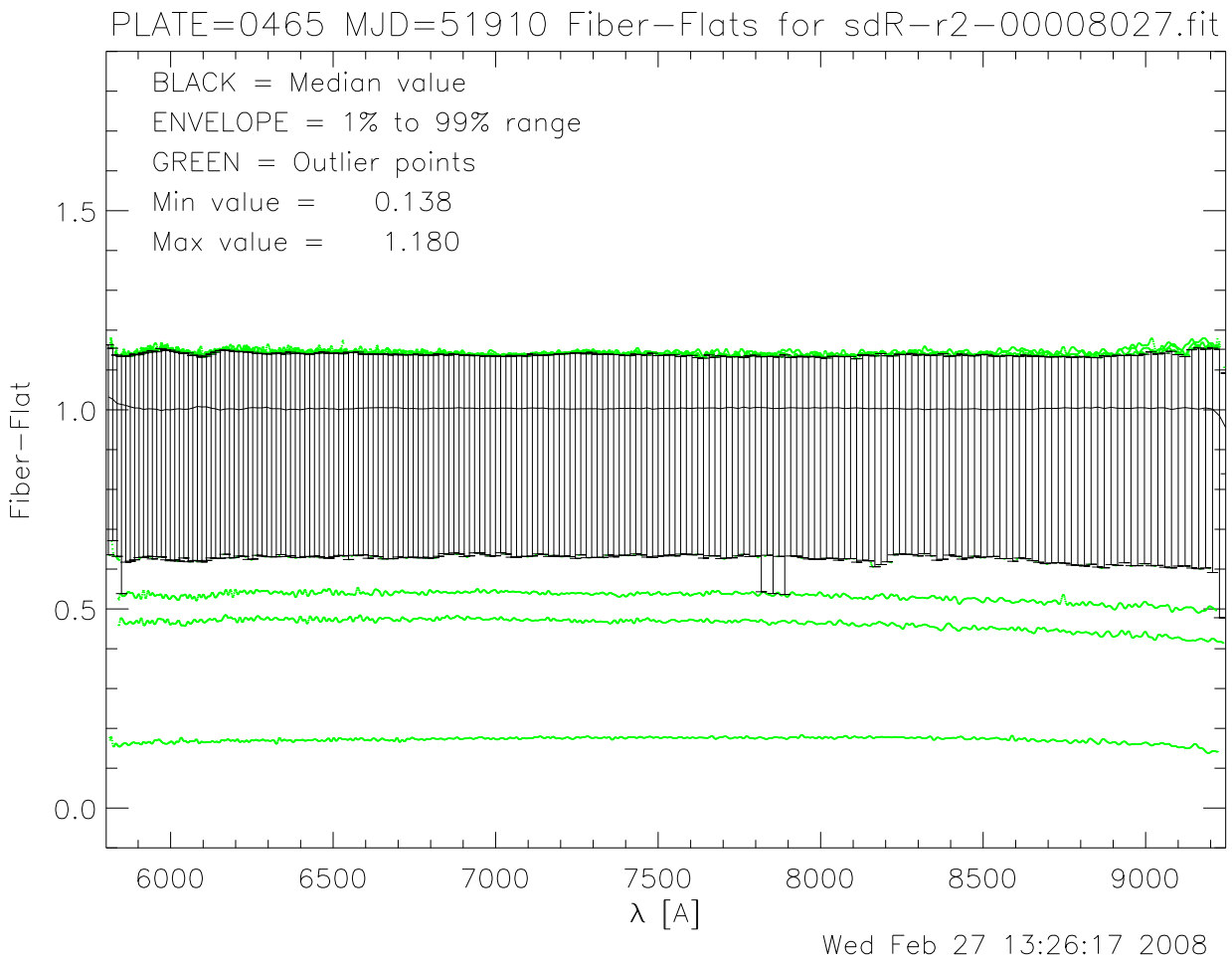

PLATE=0465 MJD=51910 flat extraction chi^2 for sdR−r2−00008021.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

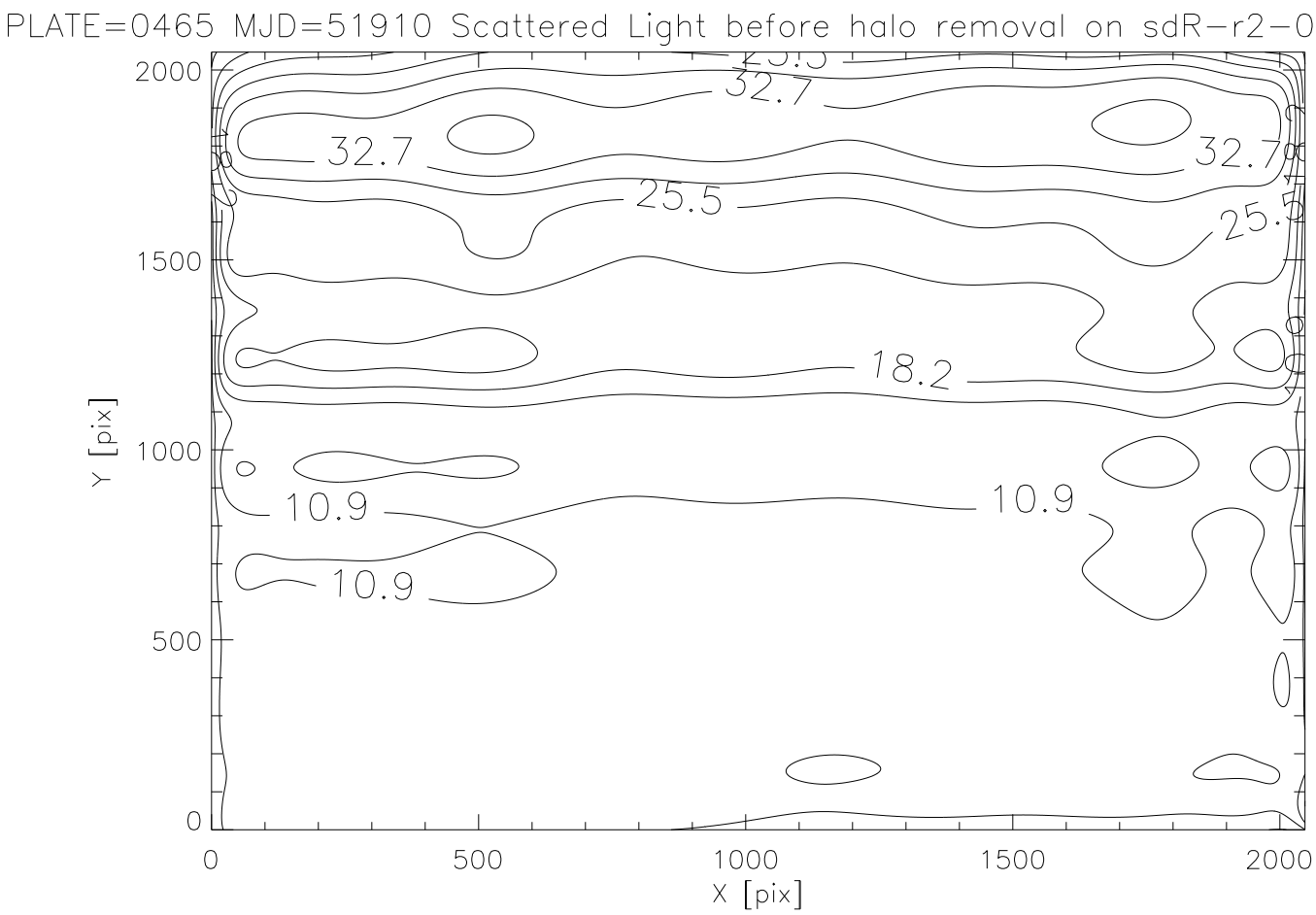

PLATE=0465 MJD=51910 Superflat sdR-r2-00008021.fit
Normalized flux
2.5
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

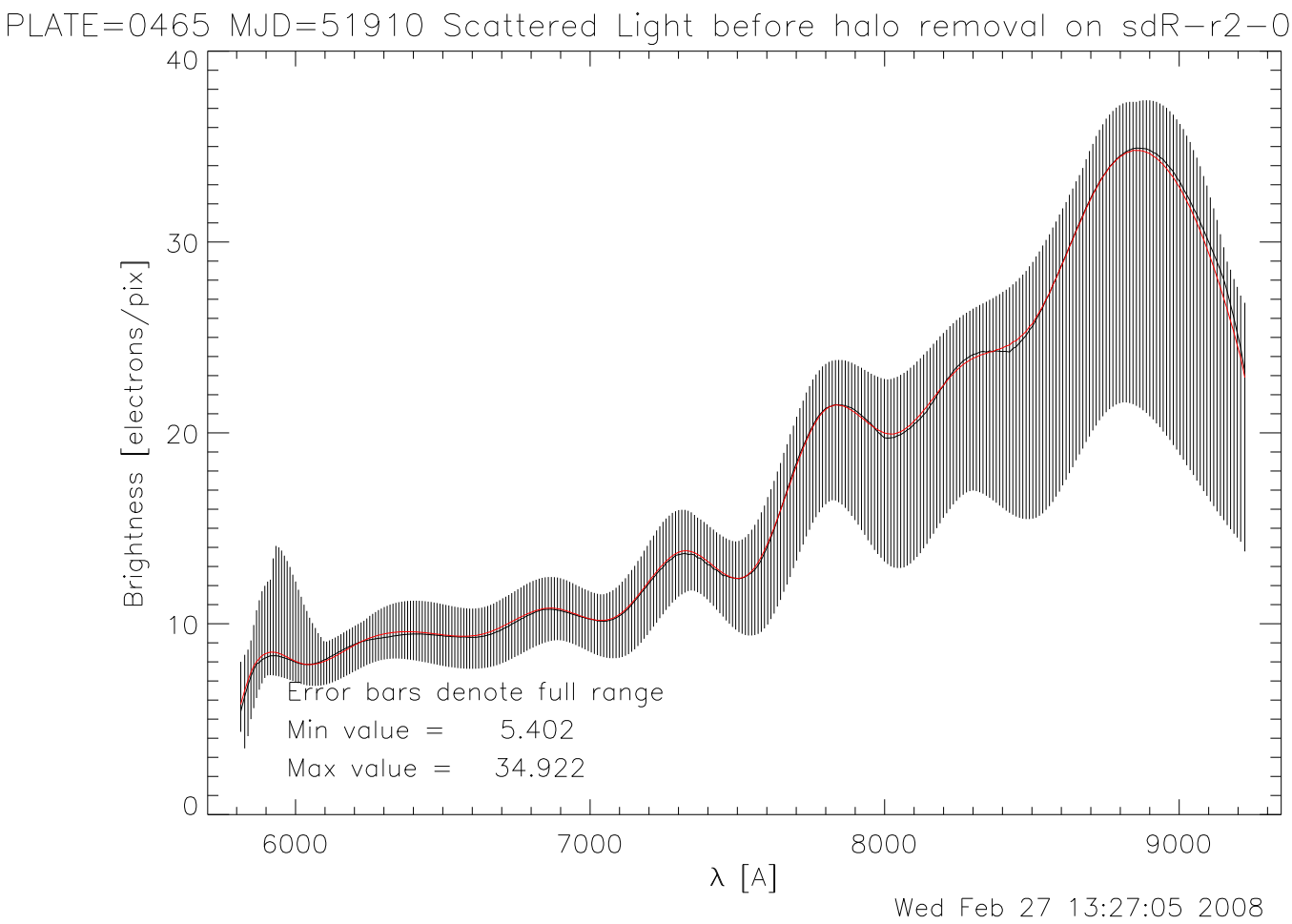

PLATE=0465 MJD=51910 flat extraction chi^2 for sdR−r2−00008027.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

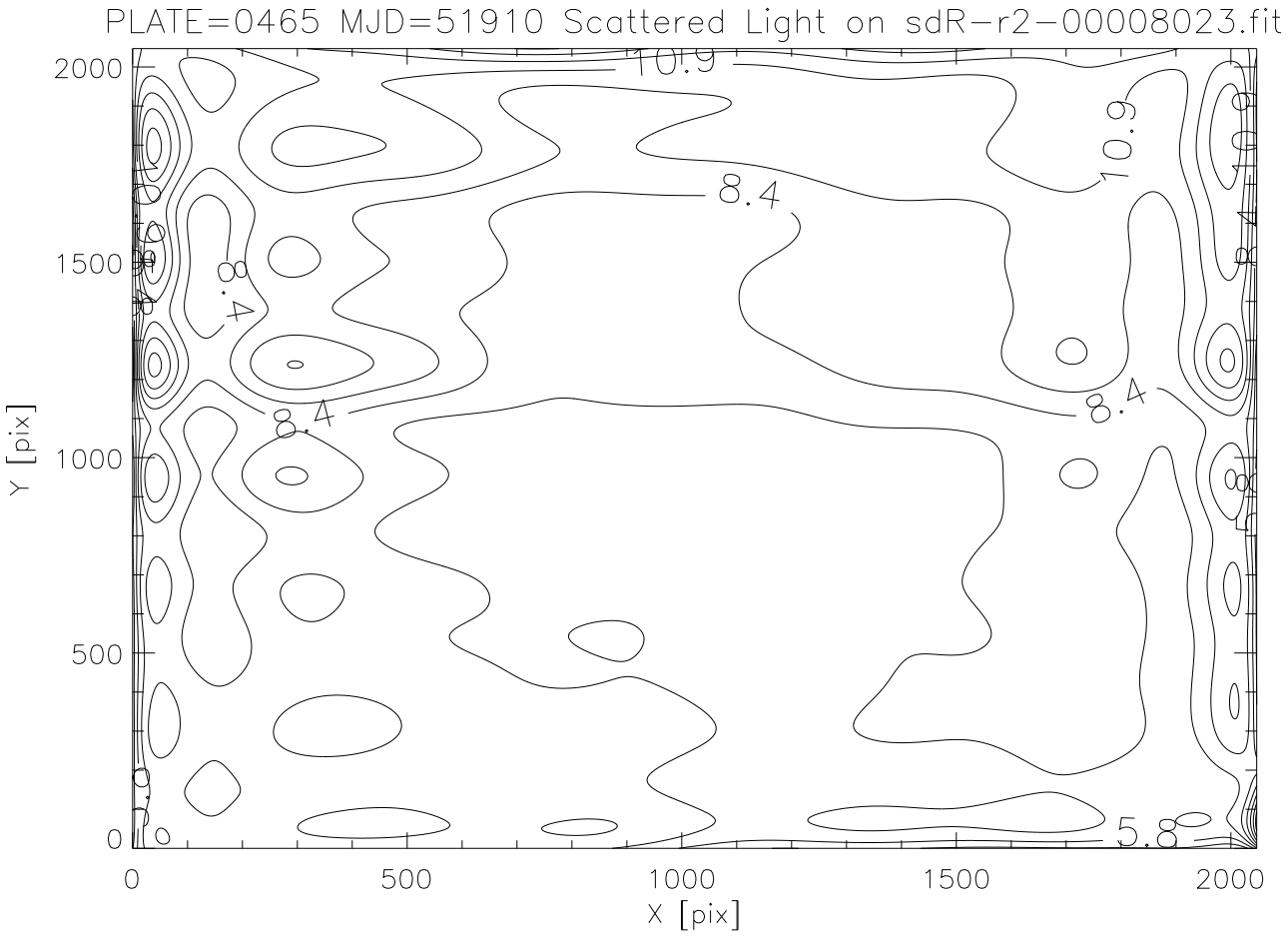

PLATE=0465 MJD=51910 Superflat sdR-r2-00008027.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

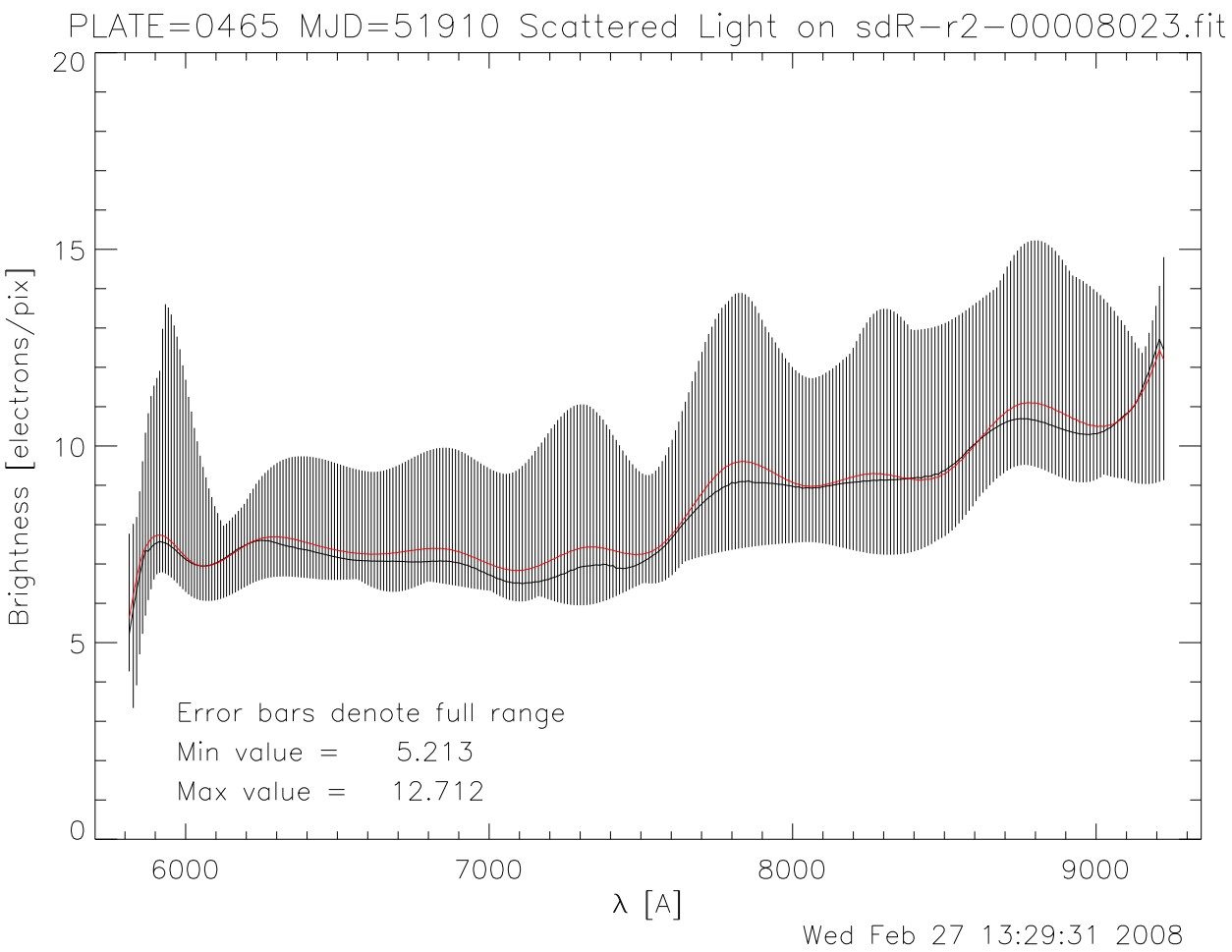

PLATE=0465 MJD=51910 Arcline Fit for sdR-r2-00008028.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Wed Feb 27 13:26:10 2008

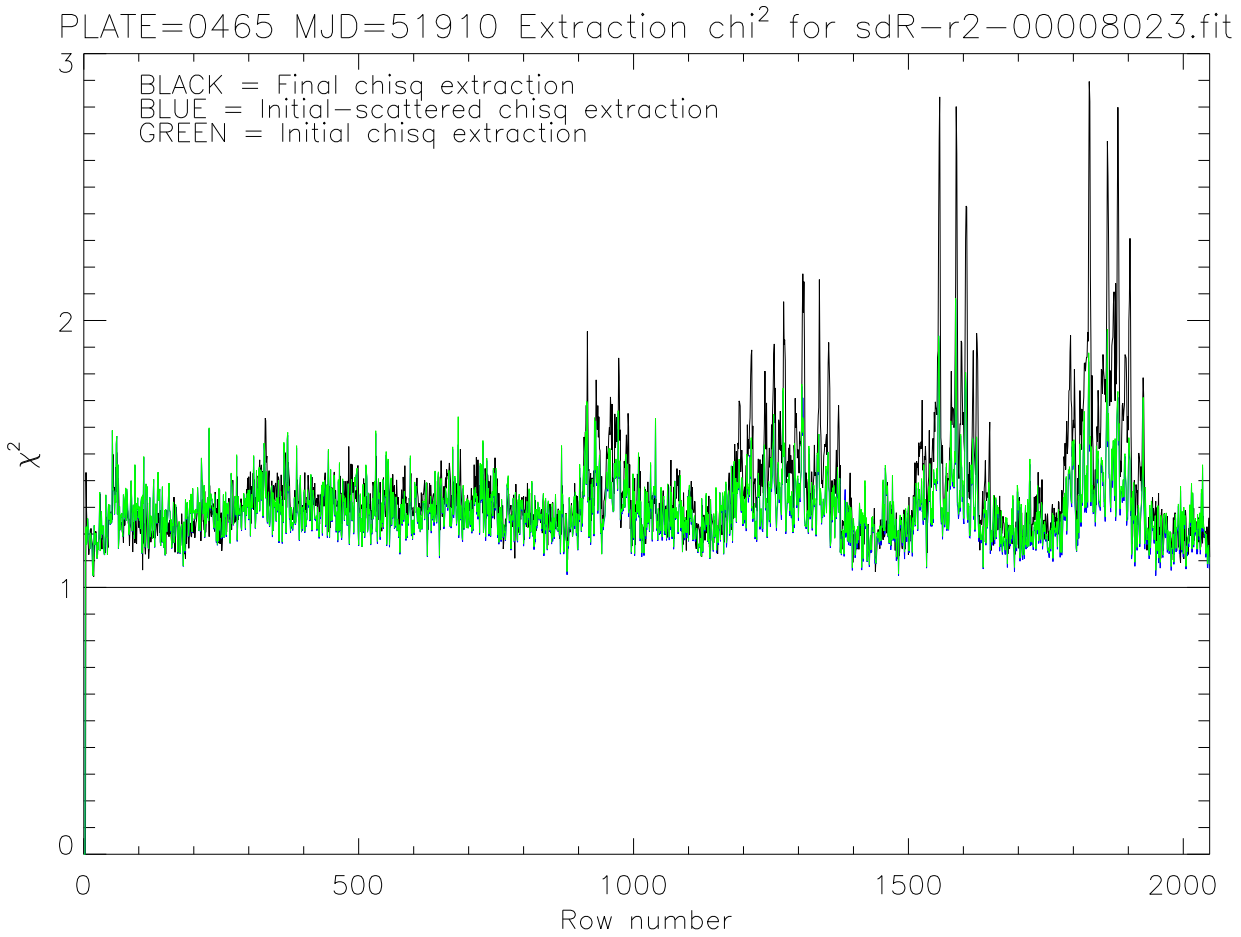

PLATE=0465 MJD=51910 Fiber−Flats for sdR−r2−00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.138
Max value = 1.180
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 13:26:17 2008

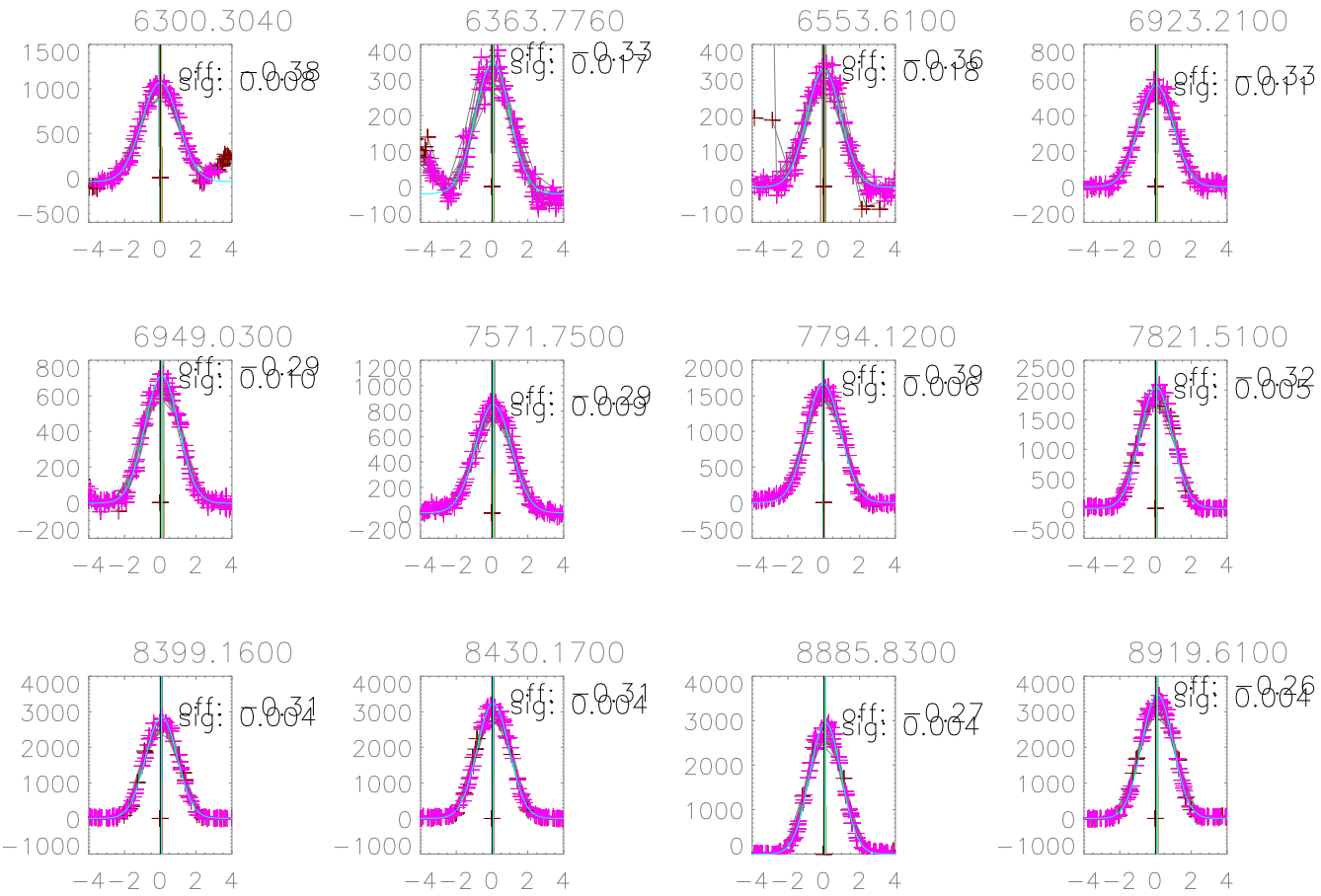

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r2-00008023.fi
32.7
32.7
32.7
25.5
25.5
18.2
10.9
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

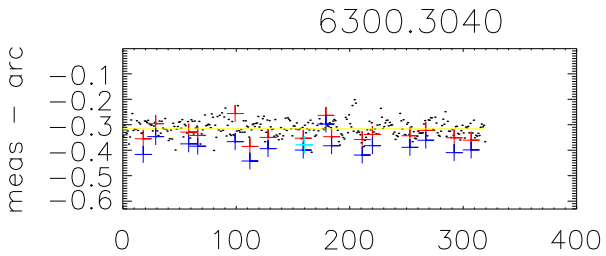

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r2-00008023.fi
Brightness [electrons/pix]
40
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.402
Max value = 34.922
Wed Feb 27 13:27:05 2008

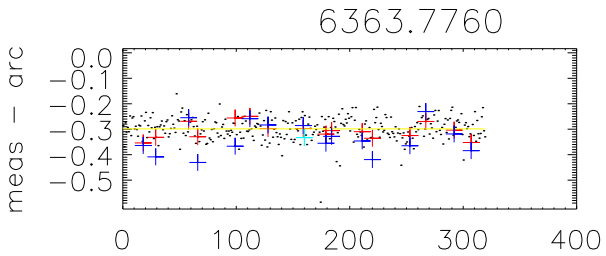

PLATE=0465 MJD=51910 Scattered Light on sdR-r2-00008023.fit
10.9
8.4
5.8
Y [pix]
X [pix]
0
500
1000
1500
2000

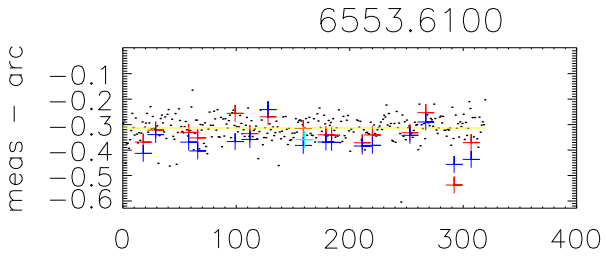

PLATE=0465 MJD=51910 Scattered Light on sdR-r2-00008023.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.213
Max value = 12.712
Wed Feb 27 13:29:31 2008

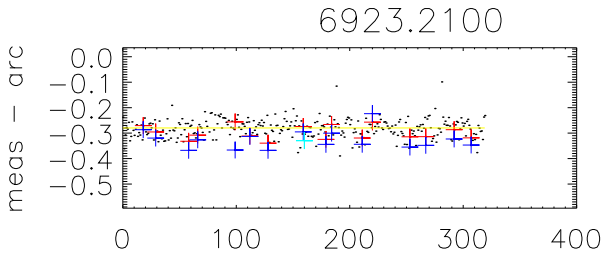

PLATE=0465 MJD=51910 Extraction chi^2 for sdR−r2−00008023.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
0
500
1000
1500
2000
Row number

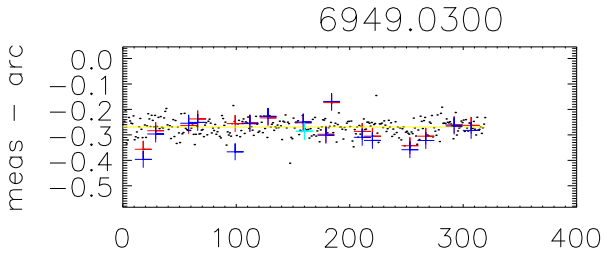

6300.3040
off: -0.38
sig: 0.008
6363.7760
off: -0.33
sig: 0.017
6553.6100
off: -0.36
sig: 0.018
6923.2100
off: -0.33
sig: 0.011
6949.0300
off: -0.29
sig: 0.010
7571.7500
off: -0.29
sig: 0.009
7794.1200
off: -0.39
sig: 0.008
7821.5100
off: -0.32
sig: 0.005
8399.1600
off: -0.31
sig: 0.004
8430.1700
off: -0.31
sig: 0.004
8885.8300
off: -0.27
sig: 0.004
8919.6100
off: -0.26
sig: 0.004

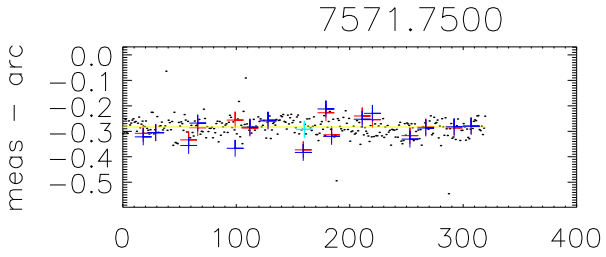

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

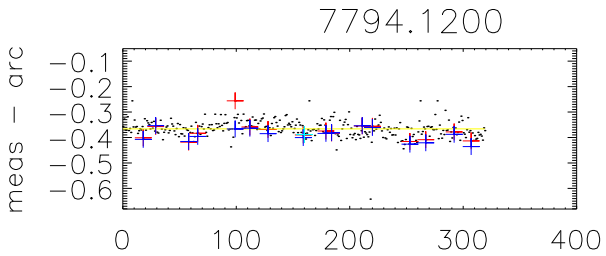

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

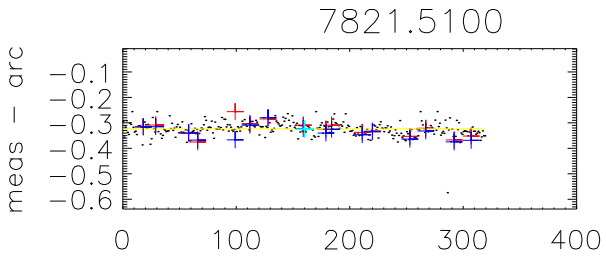

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

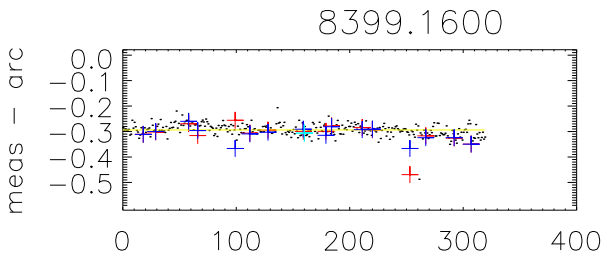

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

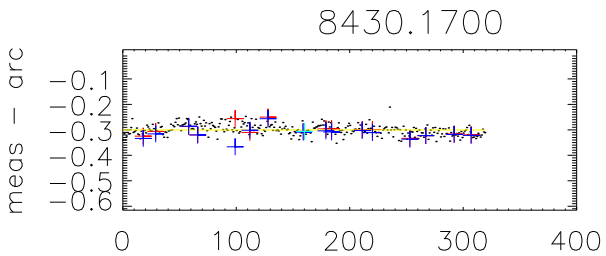

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

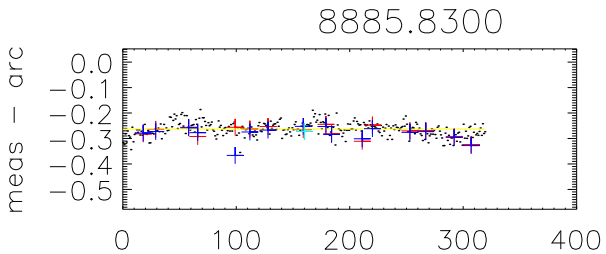

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

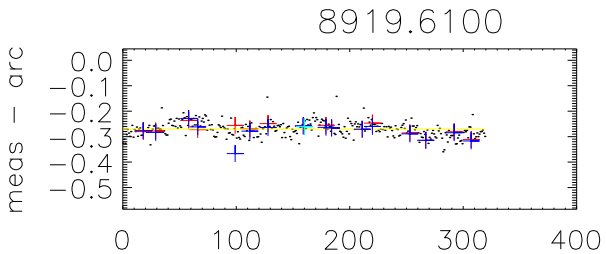

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

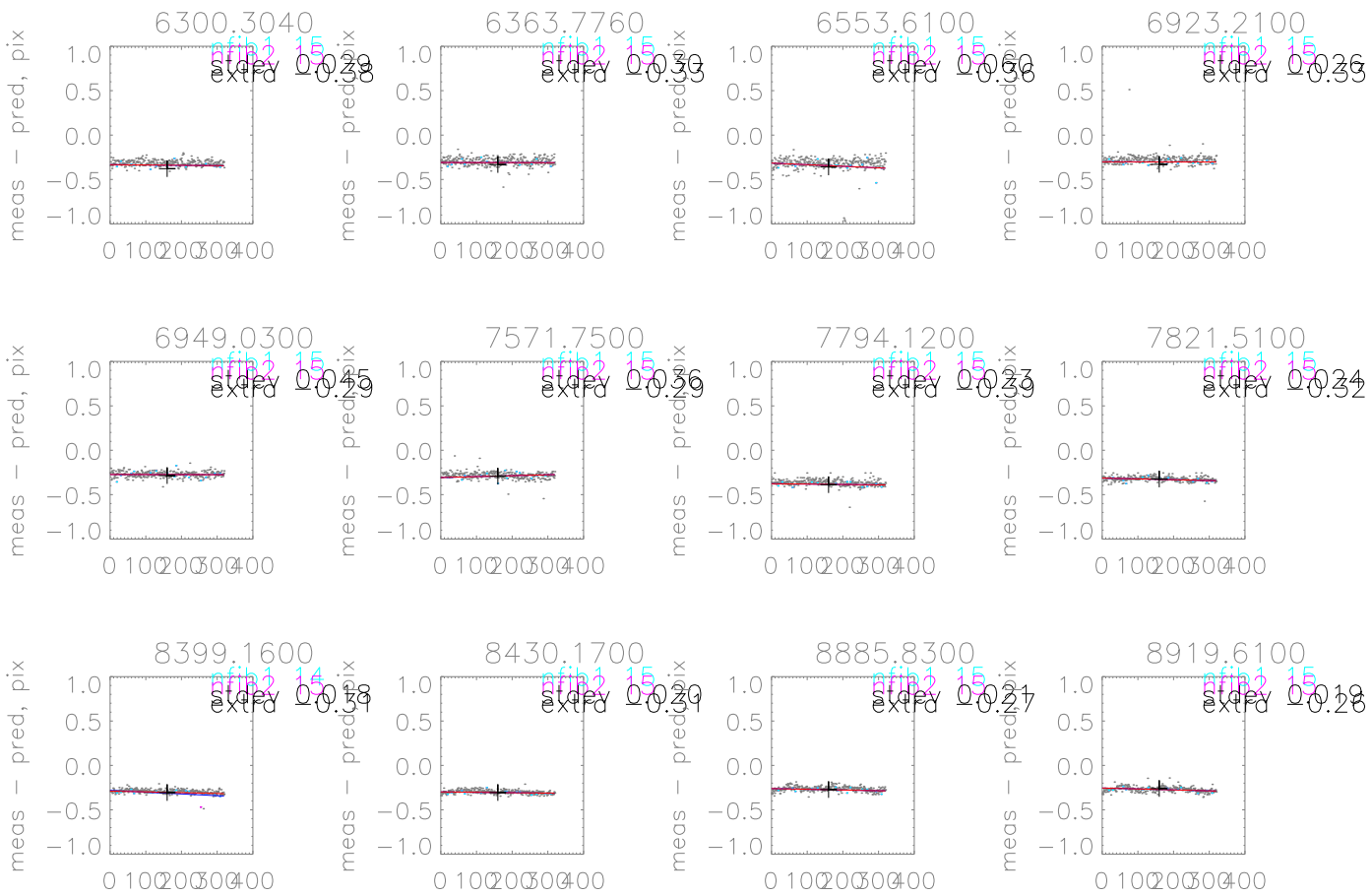

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

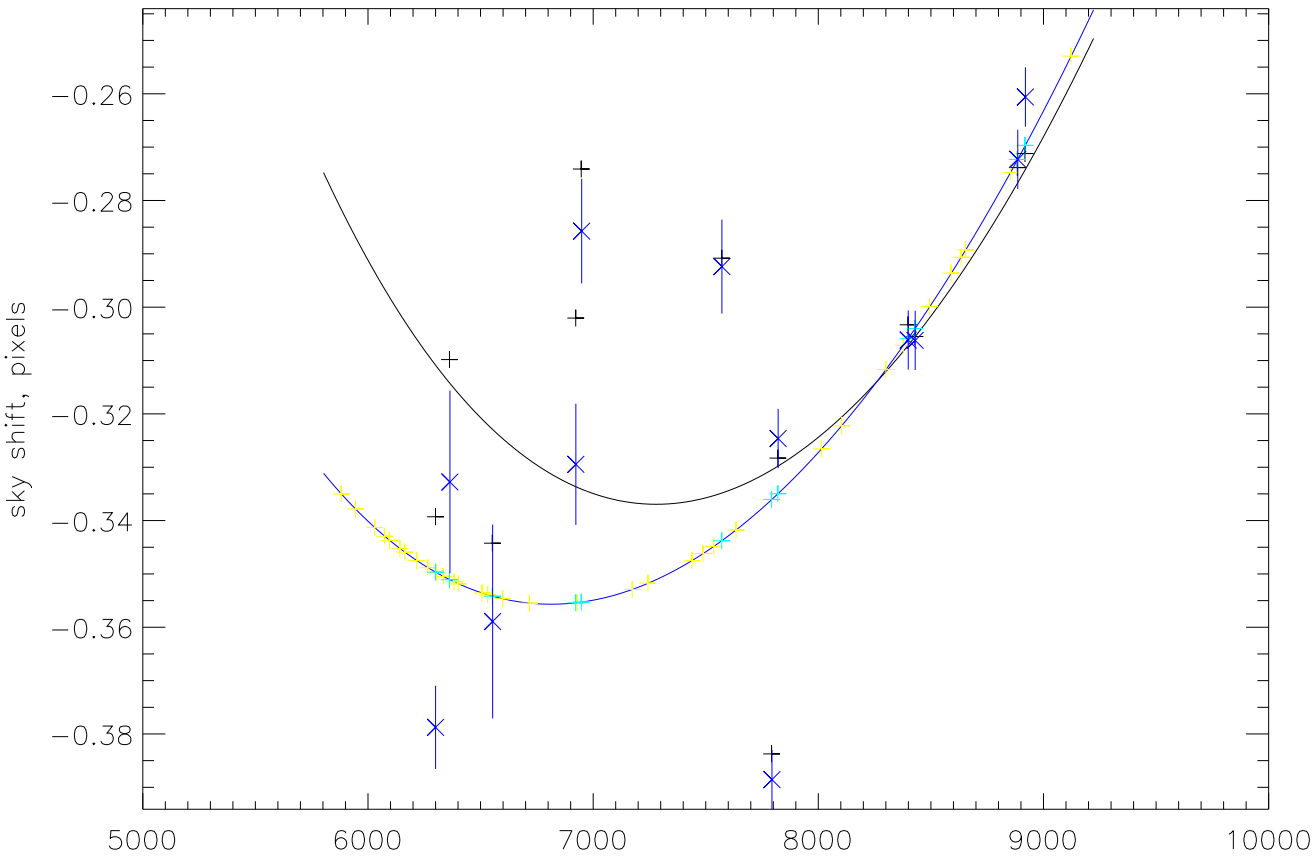

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

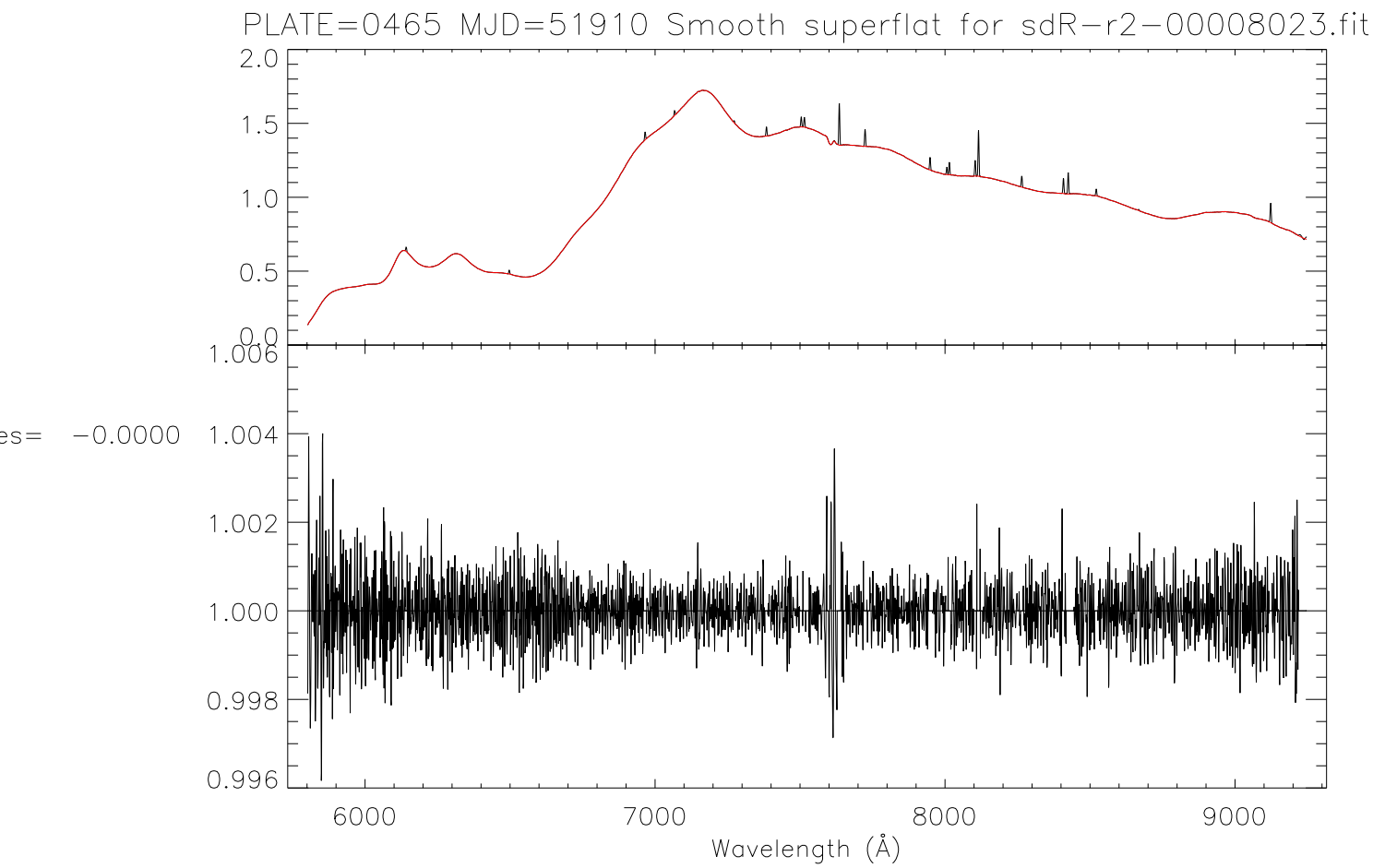

8430.1700
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

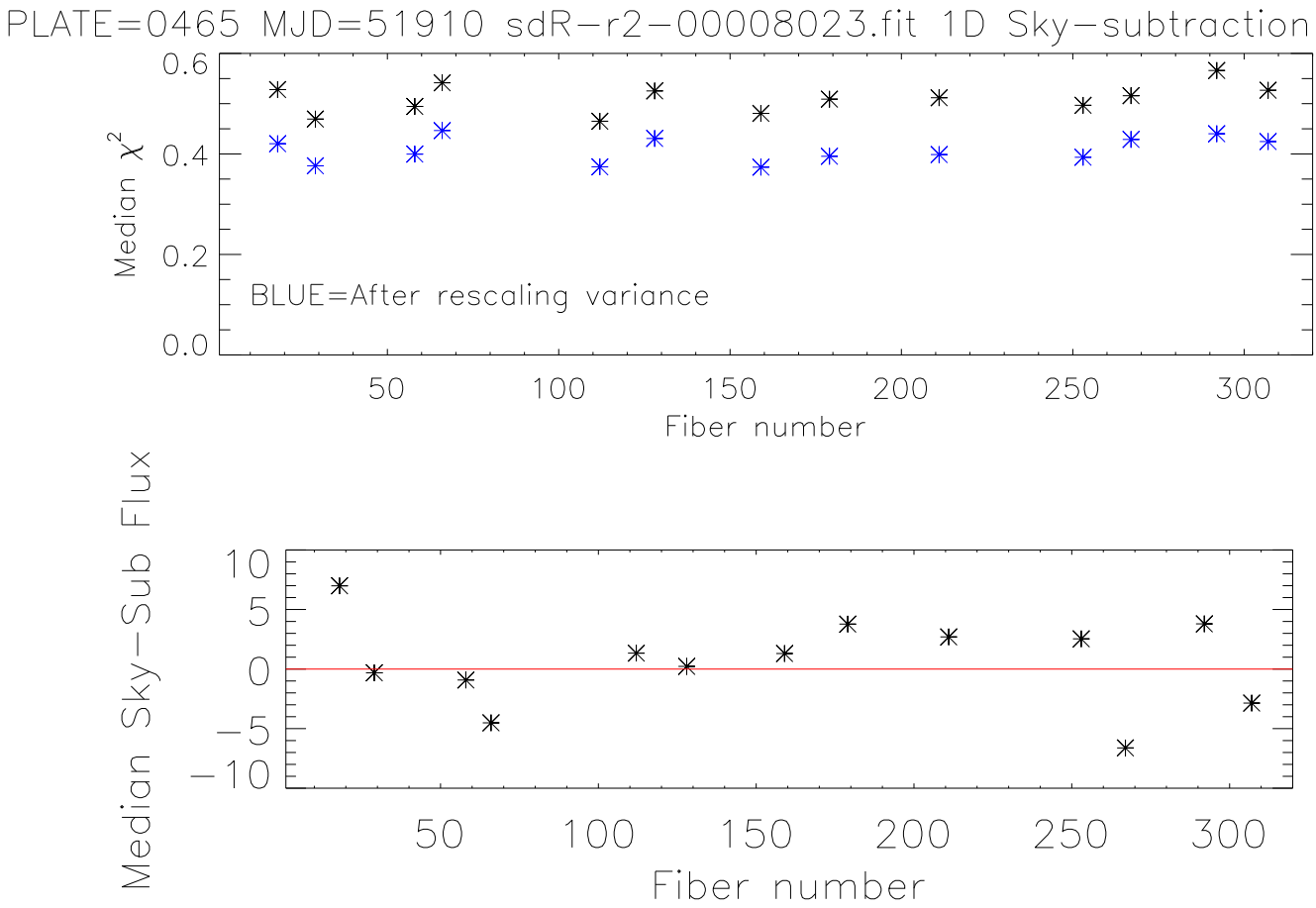

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

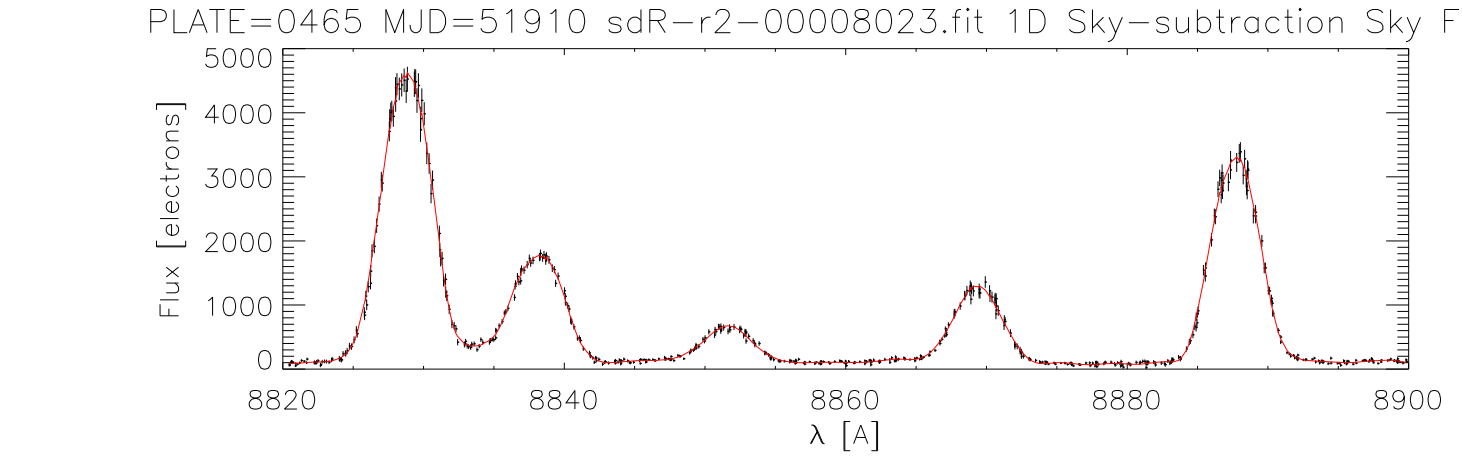

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

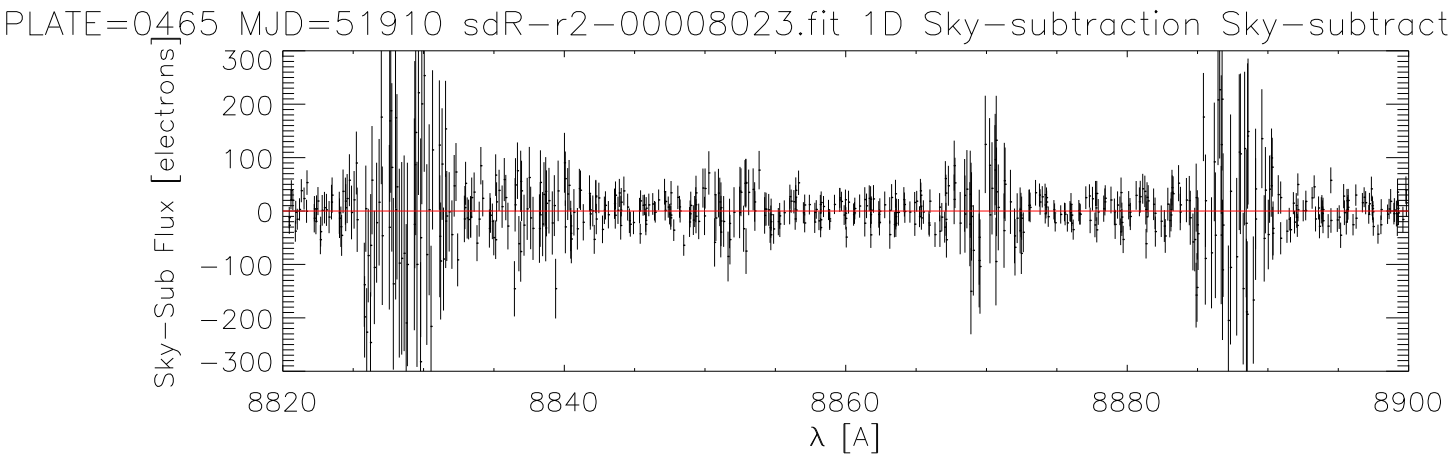

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhi2 15
stdev 0.29
extrd 0.38
stdev 0.30
extrd 0.33
stdev 0.60
extrd 0.56
stdev 0.26
extrd 0.33
stdev 0.45
extrd 0.29
stdev 0.36
extrd 0.29
stdev 0.23
extrd 0.39
stdev 0.24
extrd 0.32
mfhi2 14
stdev 0.18
extrd 0.31
stdev 0.20
extrd 0.31
stdev 0.21
extrd 0.27
stdev 0.19
extrd 0.28

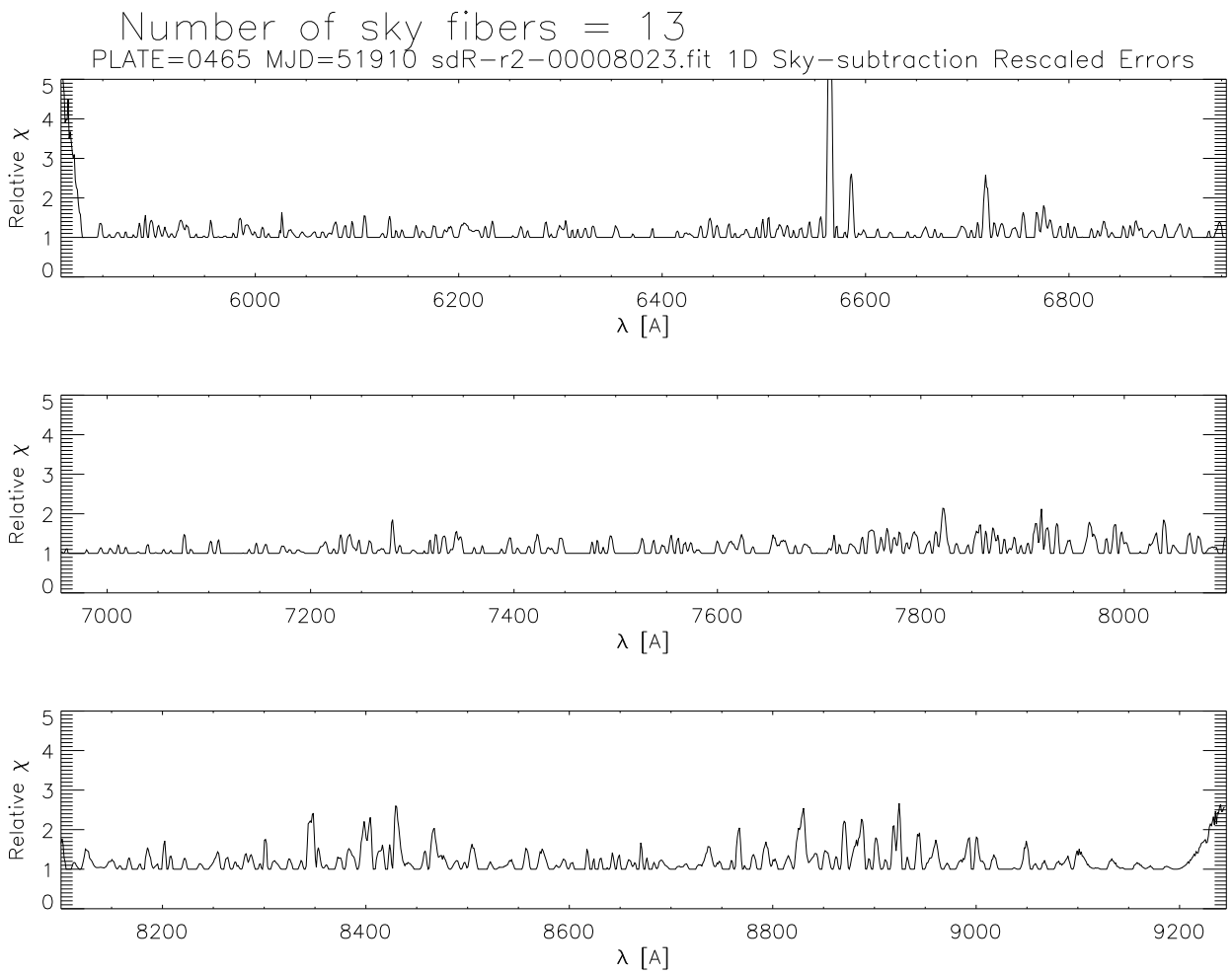

sky shift, pixels
−0.26
−0.28
−0.30
−0.32
−0.34
−0.36
−0.38
5000
6000
7000
8000
9000
10000

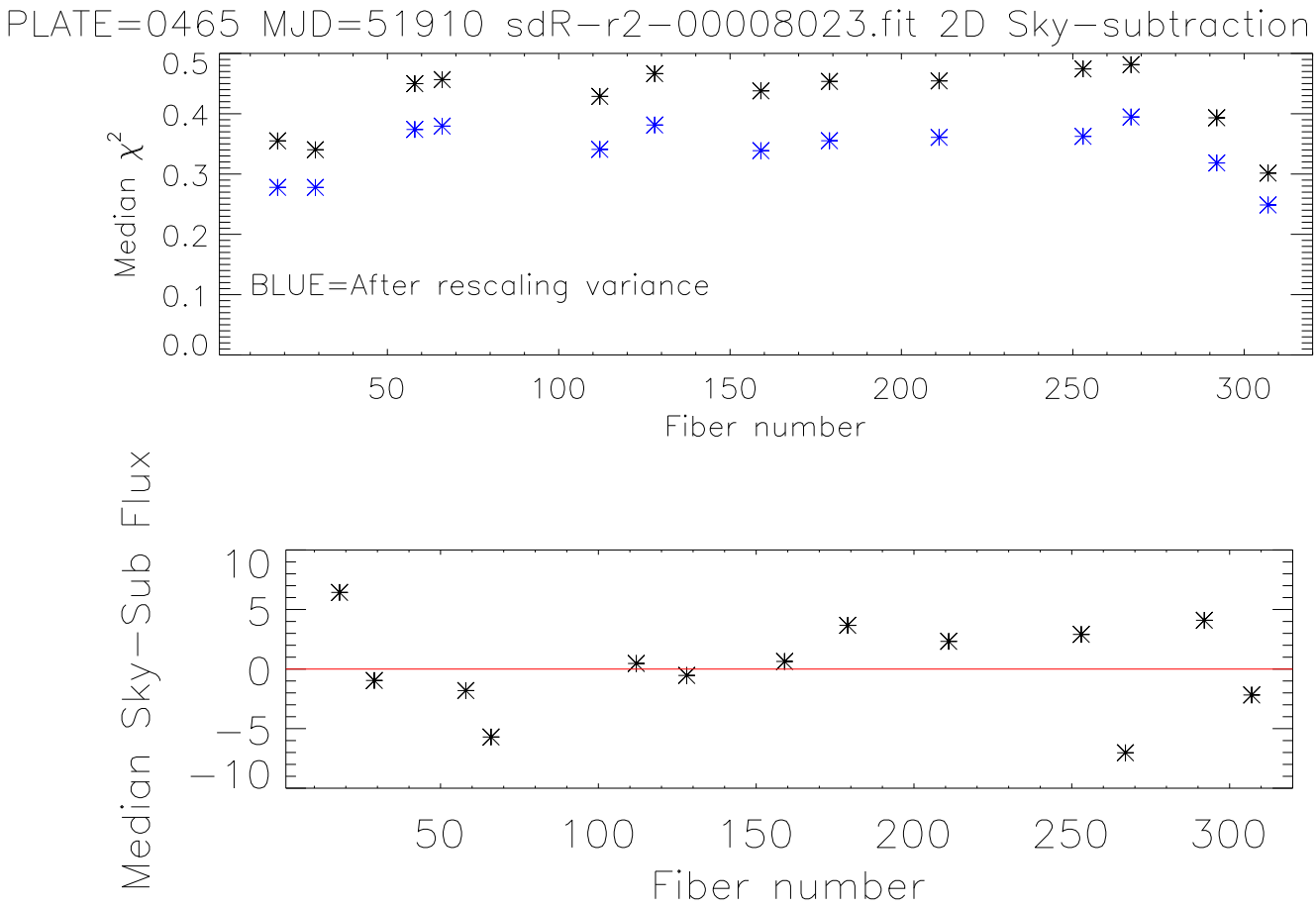

PLATE=0465 MJD=51910 Smooth superflat for sdR-r2-00008023.fit
2.0
1.5
1.0
0.5
0.0
es= −0.0000
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

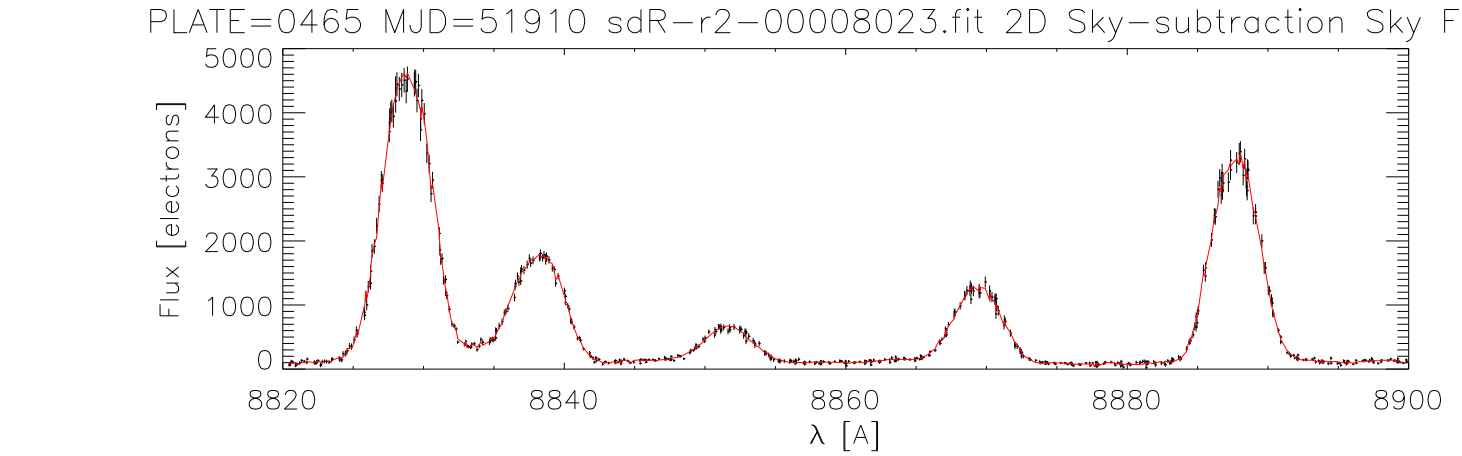

PLATE=0465 MJD=51910 sdR-r2-00008023.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

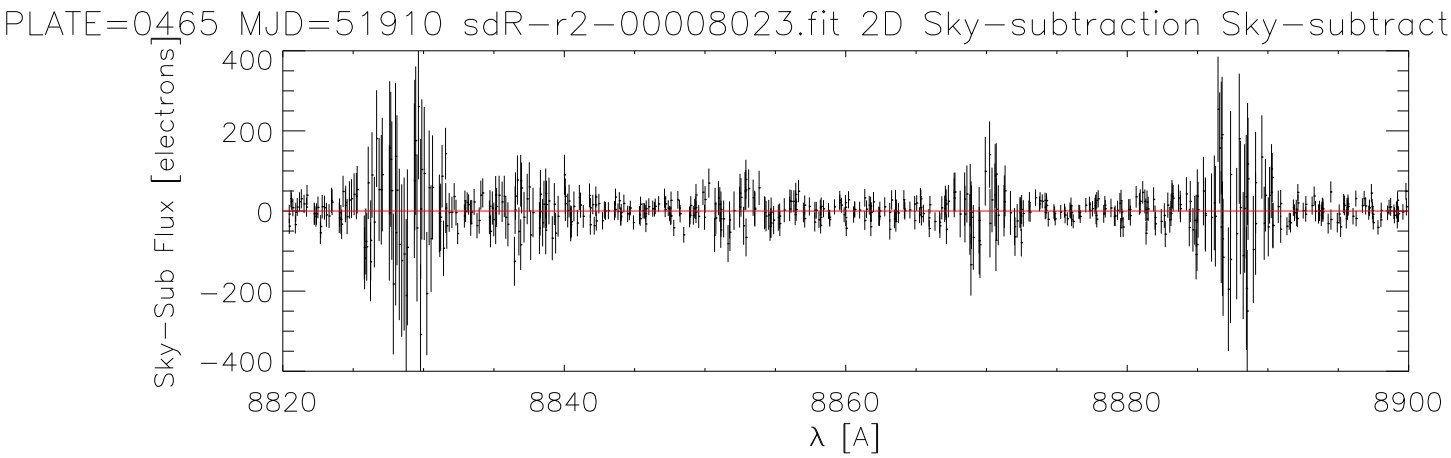

PLATE=0465 MJD=51910 sdR-r2-00008023.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

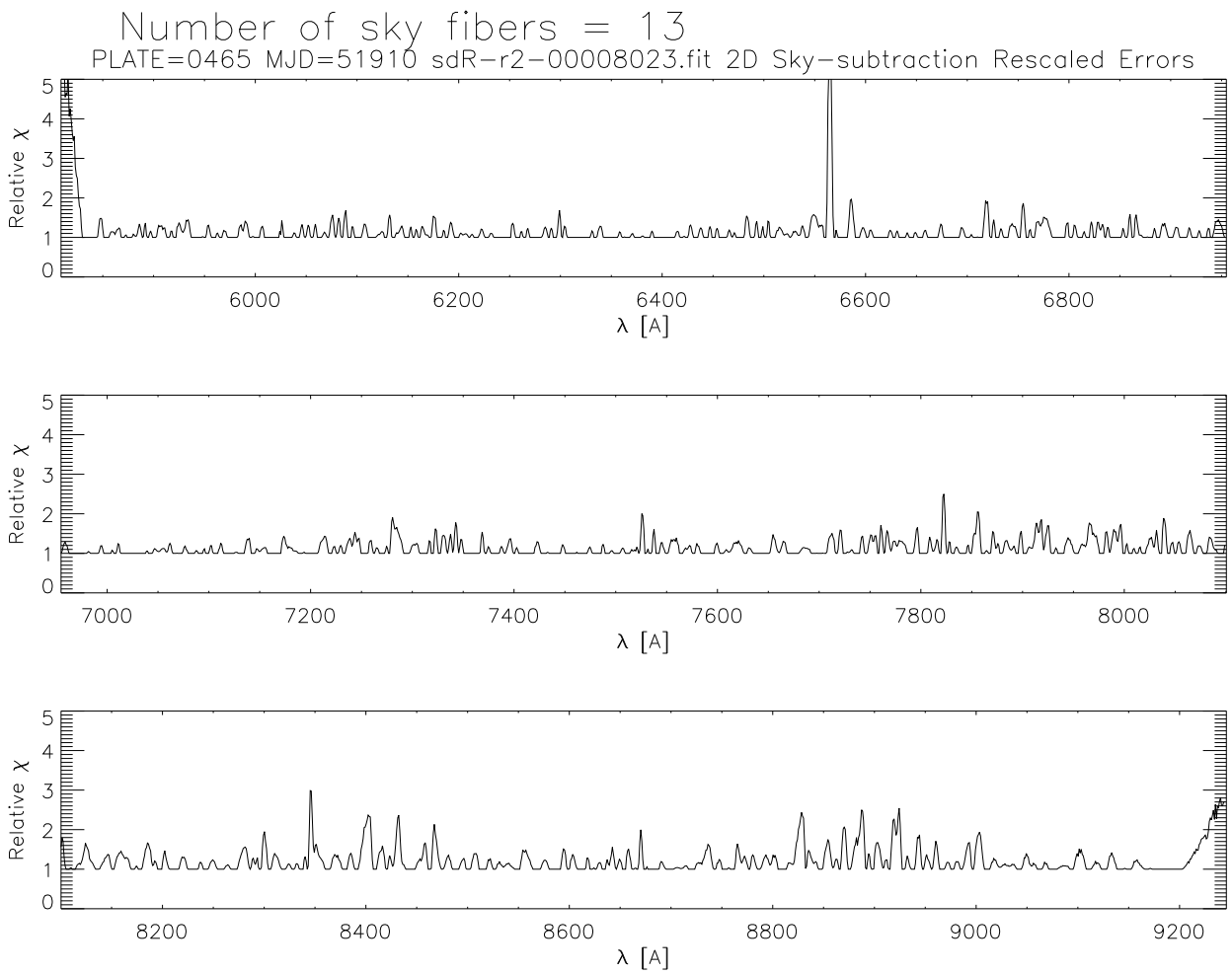

PLATE=0465 MJD=51910 sdR-r2-00008023.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

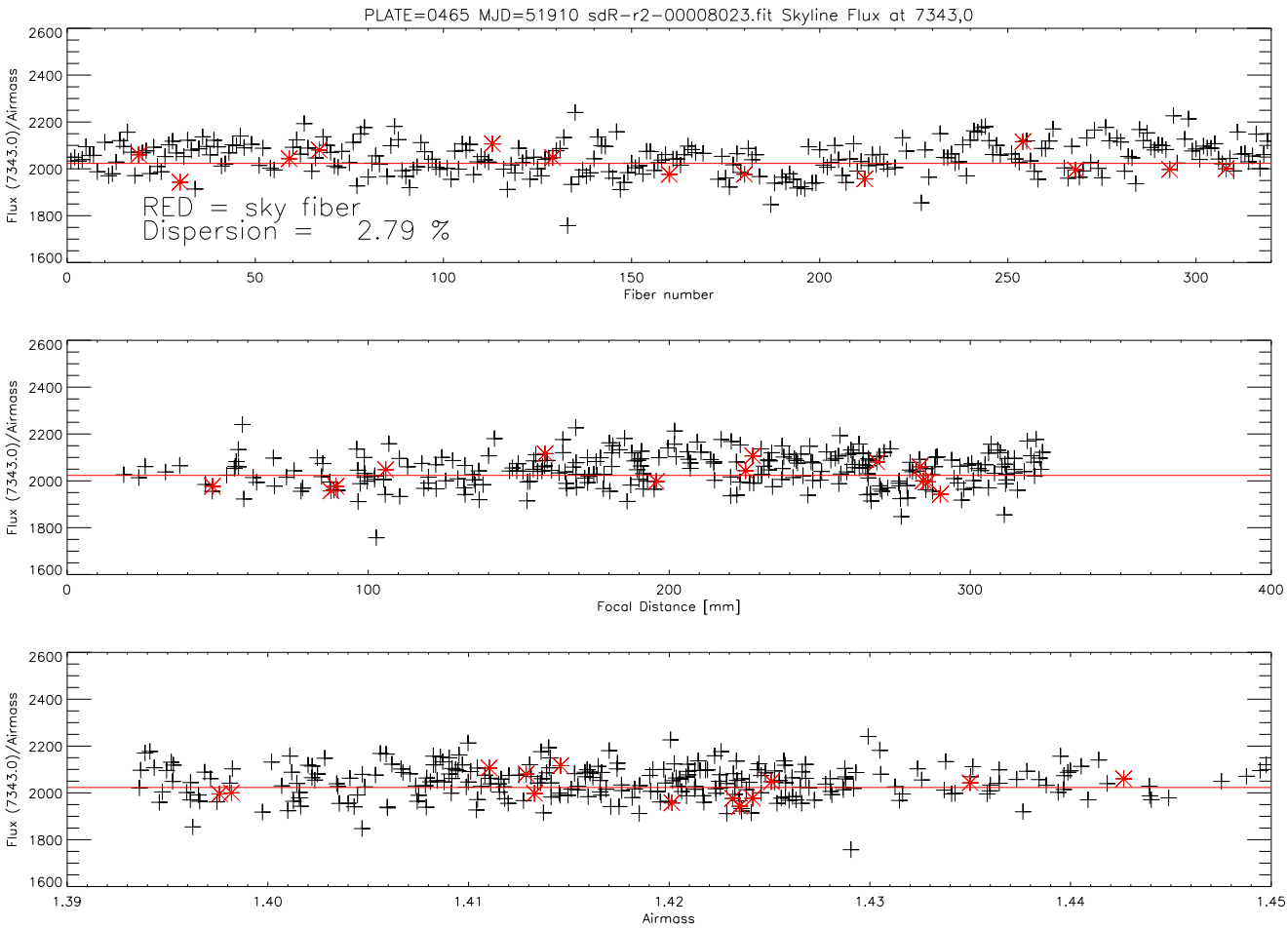

Number of sky fibers = 13
PLATE=0465 MJD=51910 sdR-r2-00008023.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

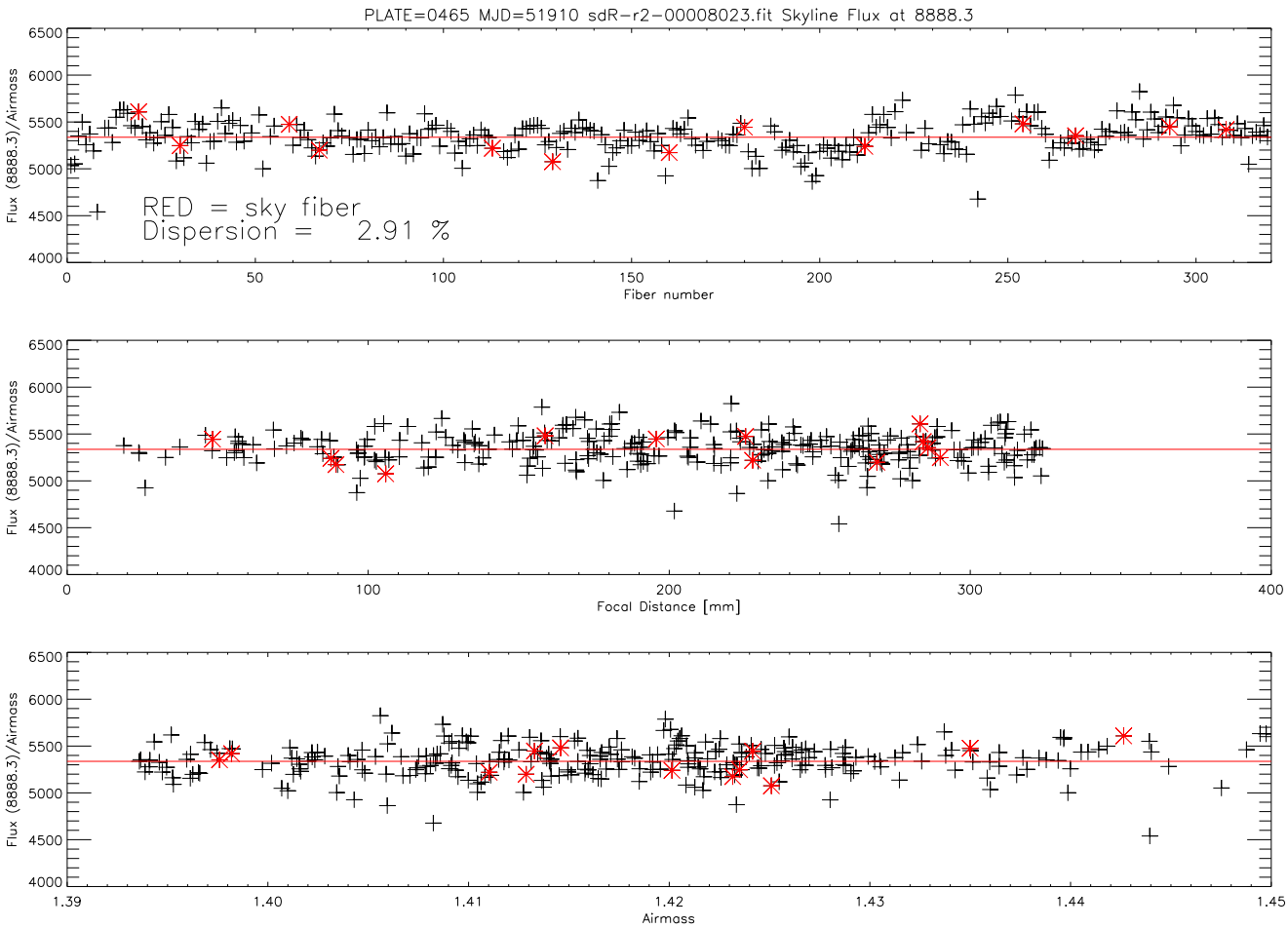

PLATE=0465 MJD=51910 sdR-r2-00008023.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

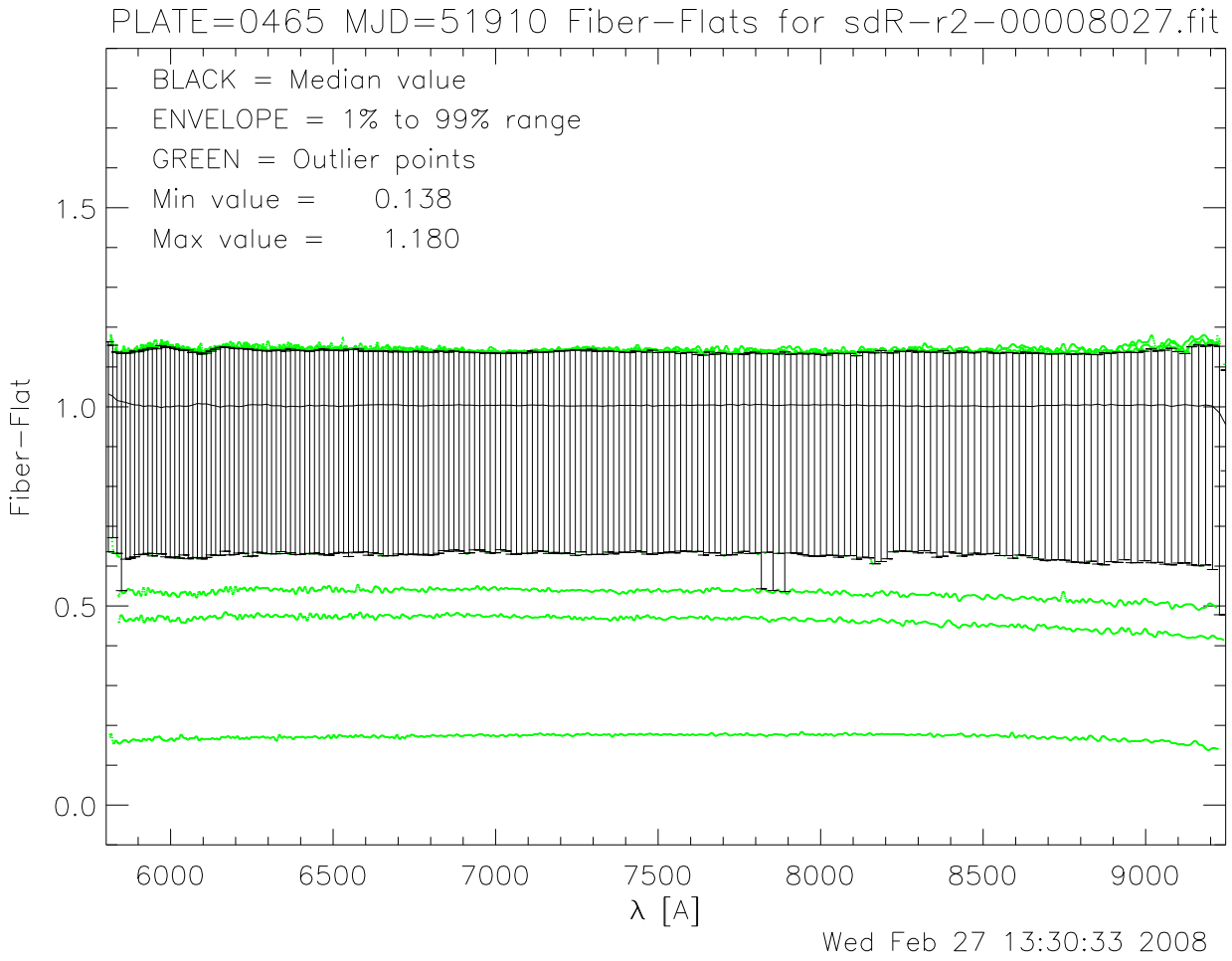

PLATE=0465 MJD=51910 sdR-r2-00008023.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

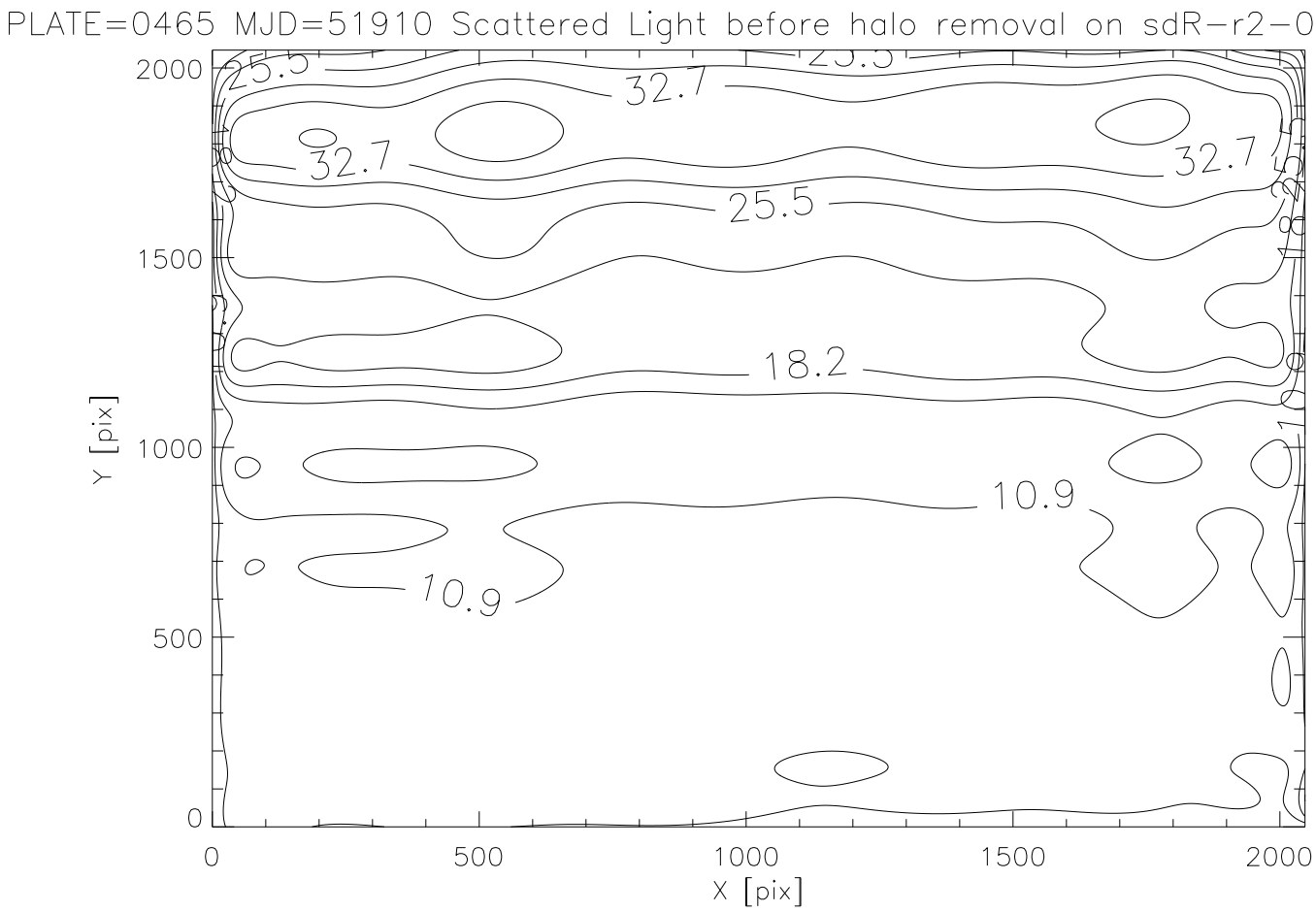

PLATE=0465 MJD=51910 sdR-r2-00008023.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

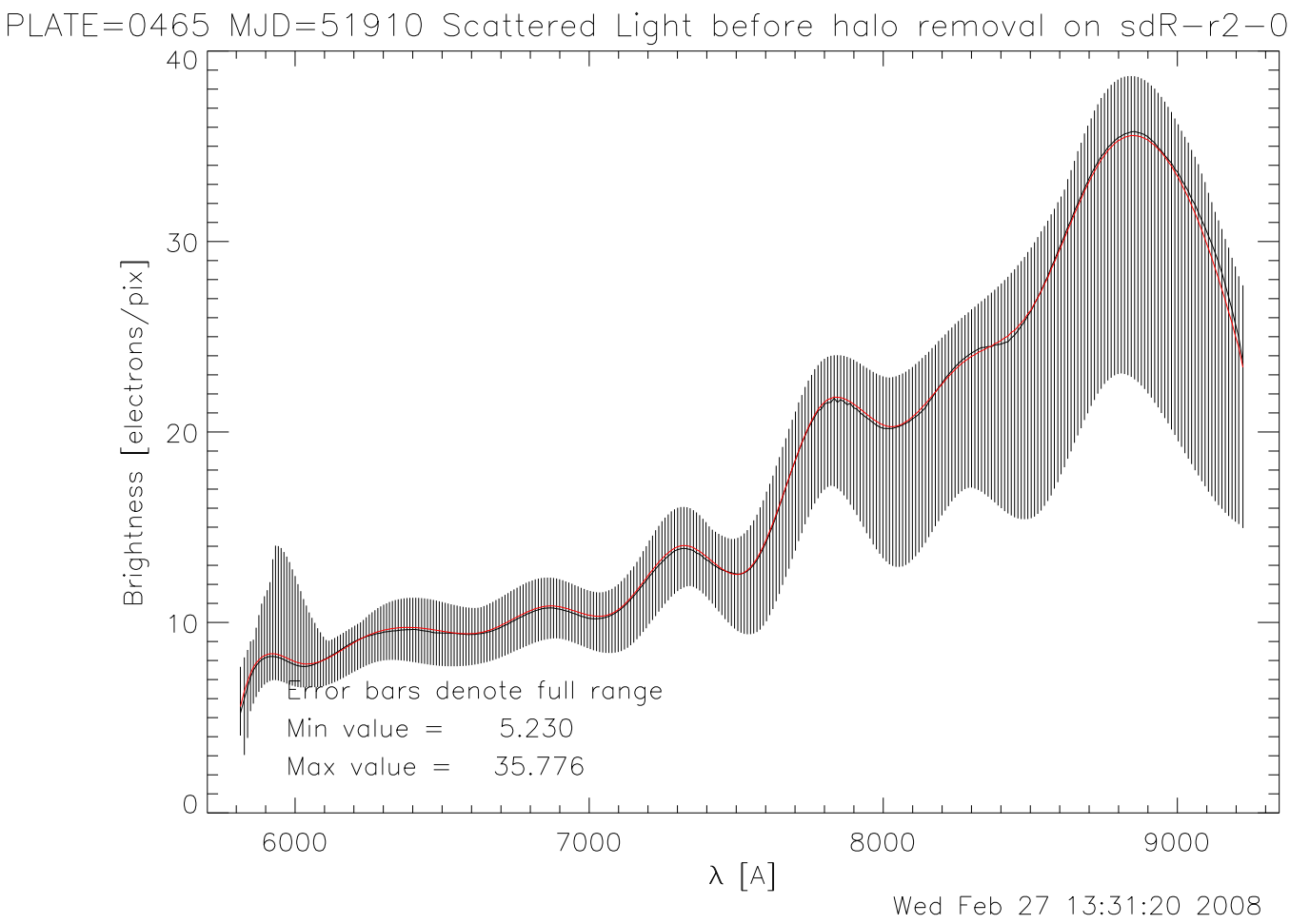

Number of sky fibers = 13
PLATE=0465 MJD=51910 sdR-r2-00008023.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

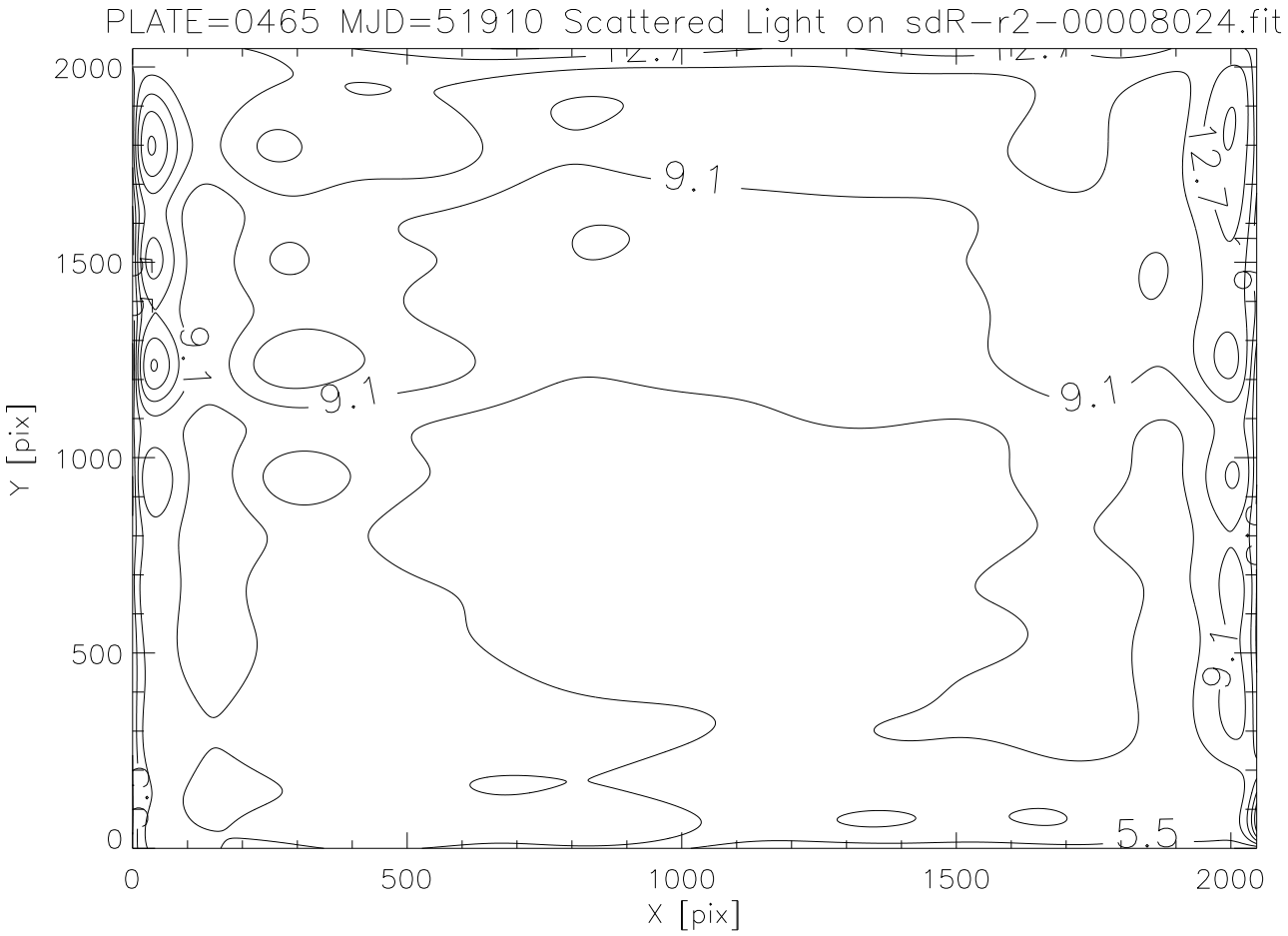

PLATE=0465 MJD=51910 sdR-r2-00008023.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.79 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

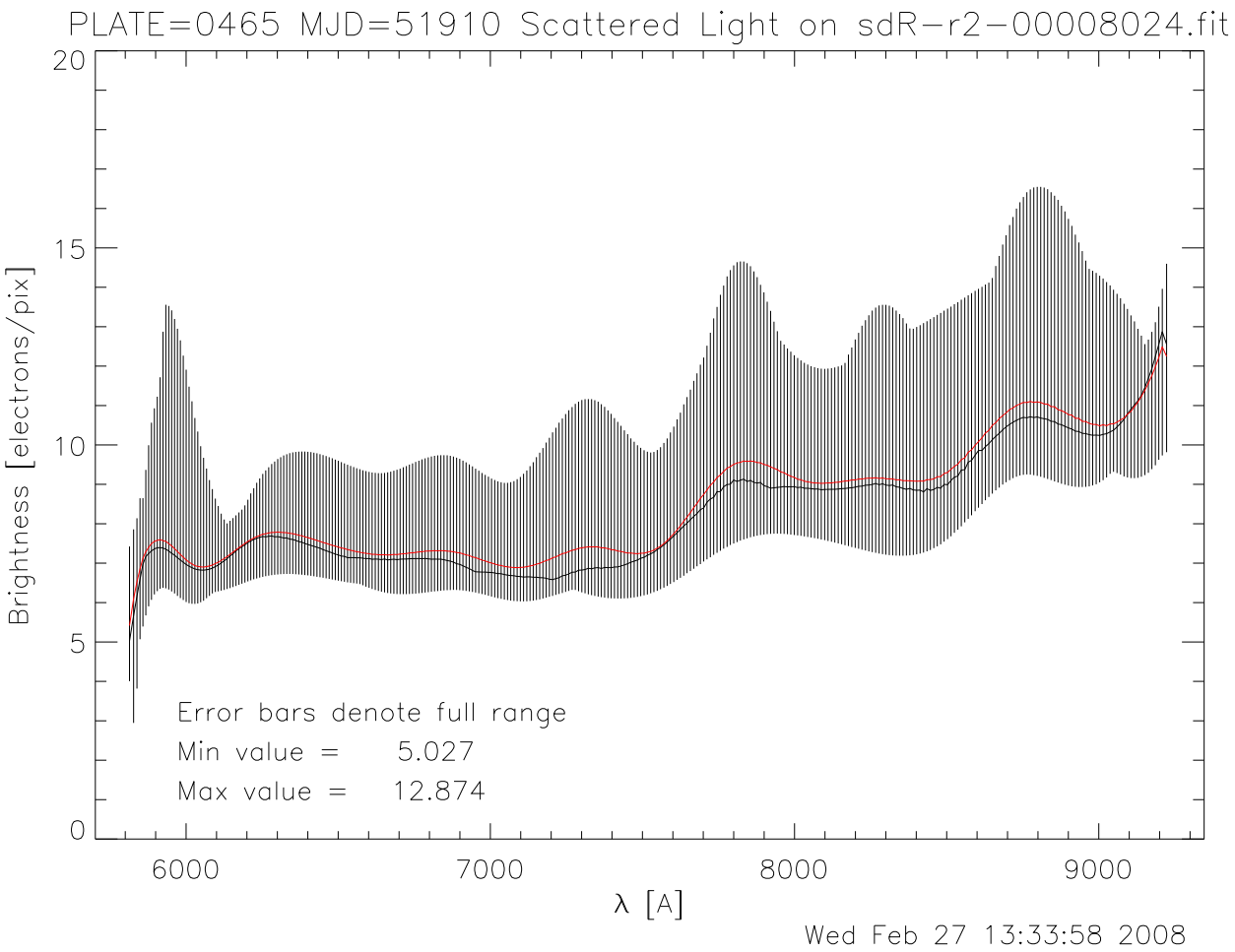

PLATE=0465 MJD=51910 sdR-r2-00008023.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.91 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

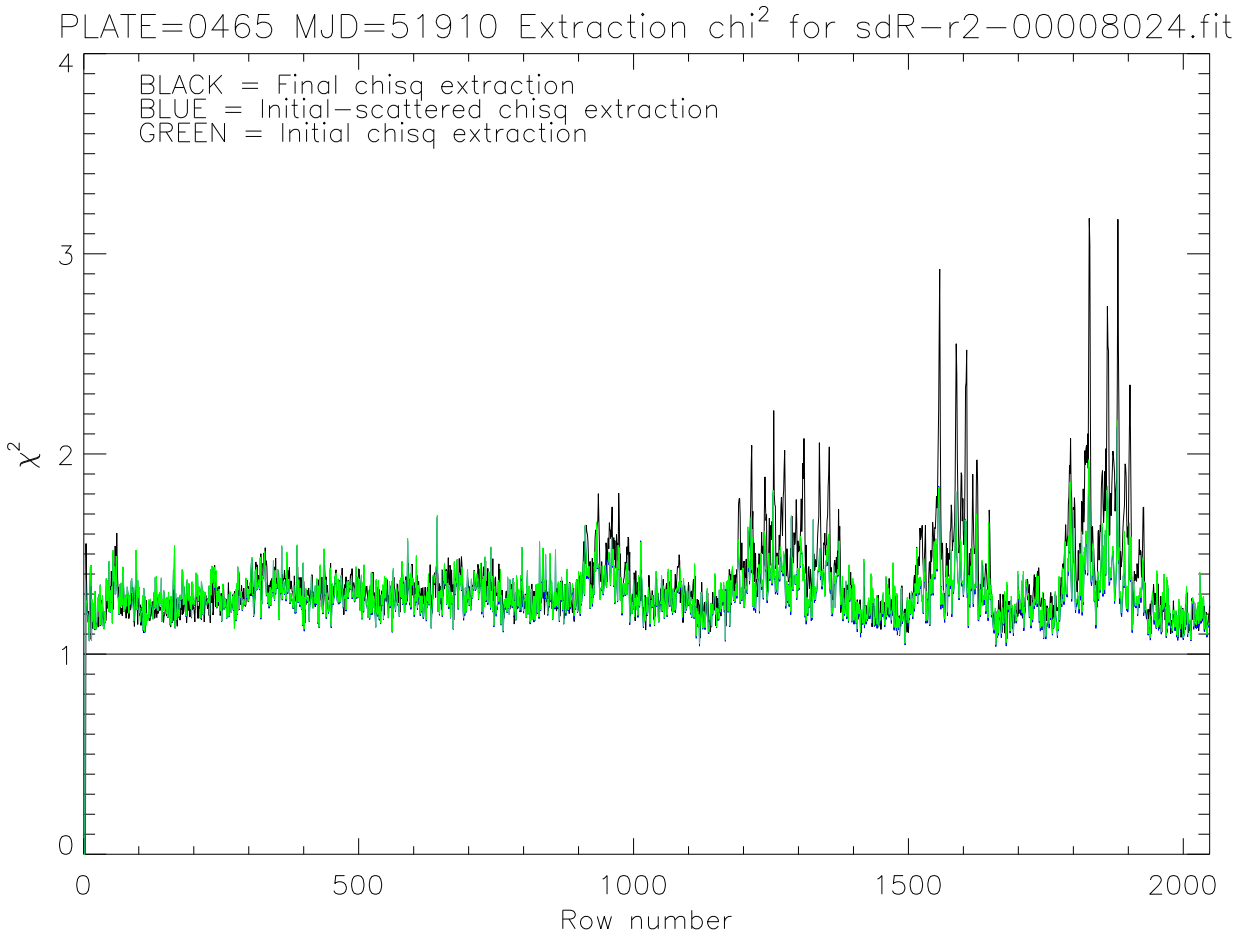

PLATE=0465 MJD=51910 Fiber−Flats for sdR−r2−00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.138
Max value = 1.180
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 13:30:33 2008

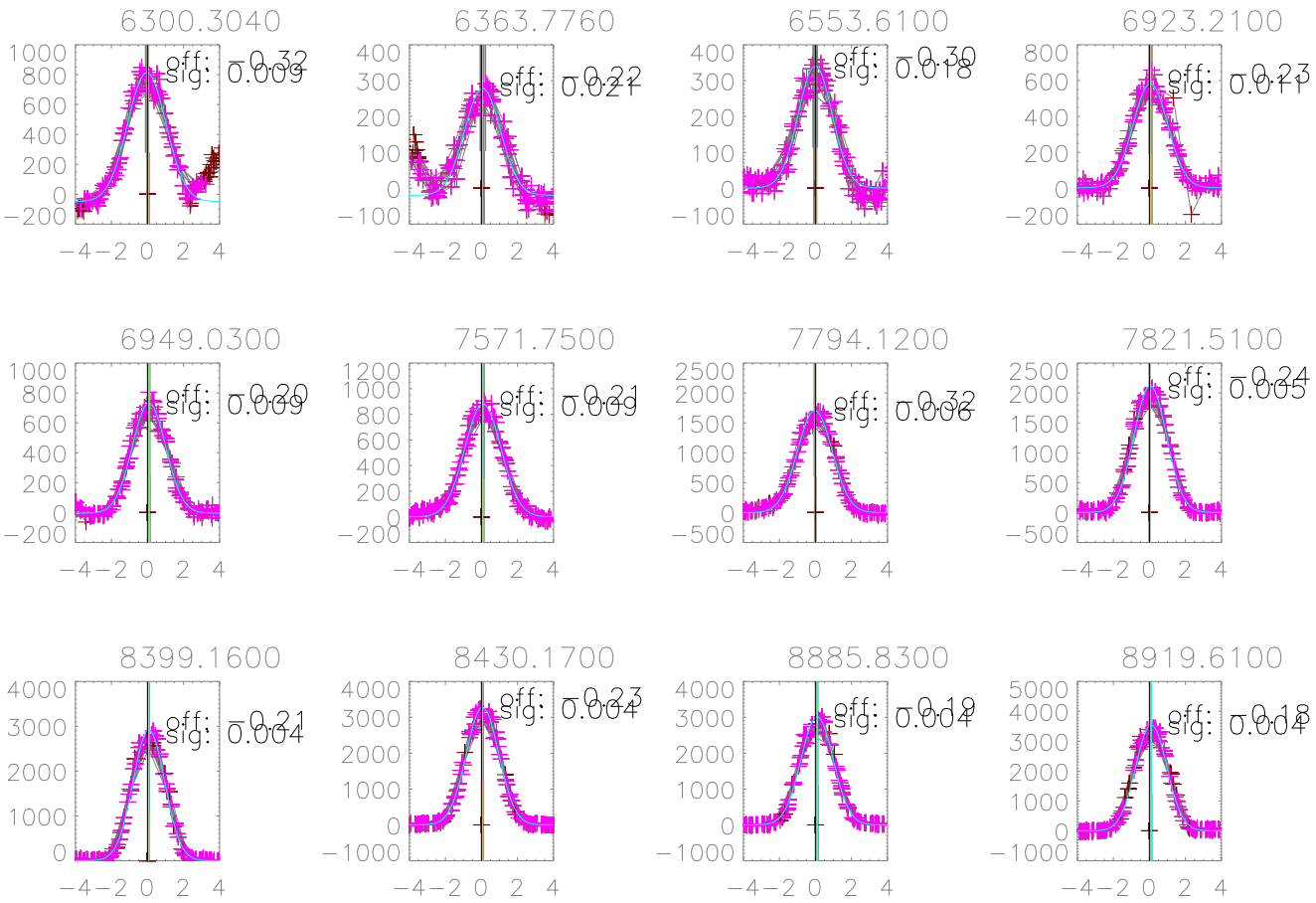

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r2-00008024.fi
25.5
32.7
32.7
32.7
25.5
18.2
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000

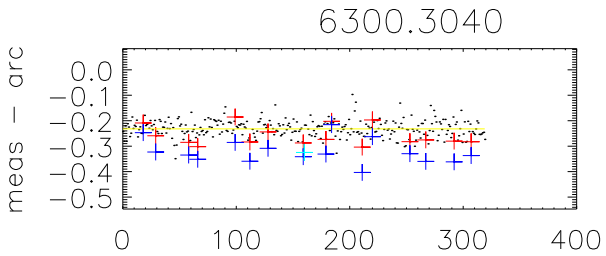

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r2-00008024.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.230
Max value = 35.776
Wed Feb 27 13:31:20 2008

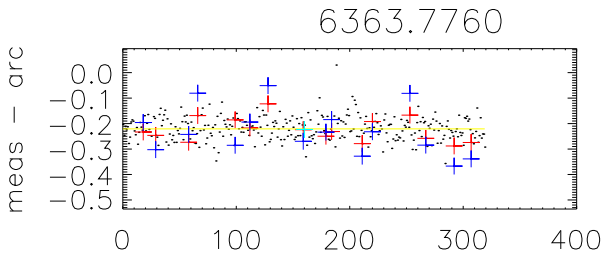

PLATE=0465 MJD=51910 Scattered Light on sdR-r2-00008024.fit
12.7
12.7
9.1
9.1
9.1
9.1
9.1
5.5
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

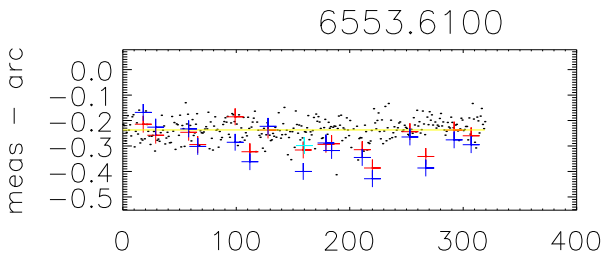

PLATE=0465 MJD=51910 Scattered Light on sdR-r2-00008024.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.027
Max value = 12.874
Wed Feb 27 13:33:58 2008

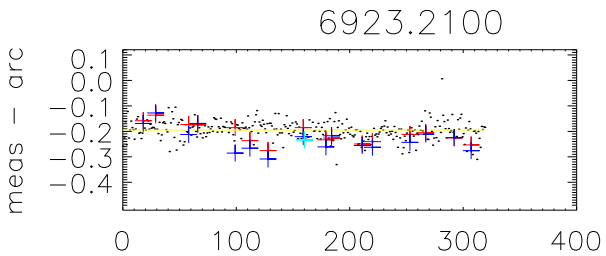

PLATE=0465 MJD=51910 Extraction chi^2 for sdR-r2-00008024.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

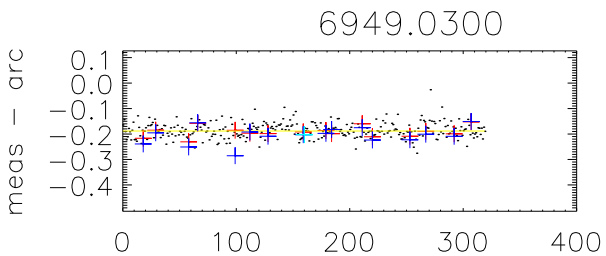

6300.3040
off: −0.32
sig: 0.009
6363.7760
off: −0.22
sig: 0.021
6553.6100
off: −0.30
sig: 0.018
6923.2100
off: −0.23
sig: 0.011
6949.0300
off: −0.20
sig: 0.009
7571.7500
off: −0.21
sig: 0.009
7794.1200
off: −0.32
sig: 0.006
7821.5100
off: −0.24
sig: 0.005
8399.1600
off: −0.21
sig: 0.004
8430.1700
off: −0.23
sig: 0.004
8885.8300
off: −0.19
sig: 0.004
8919.6100
off: −0.18
sig: 0.004

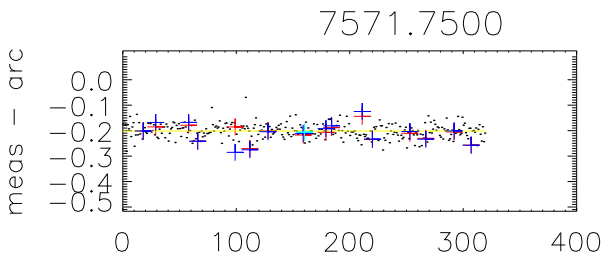

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

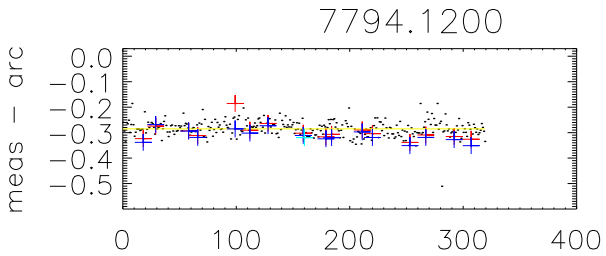

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

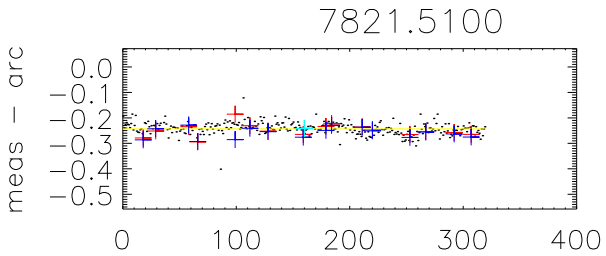

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

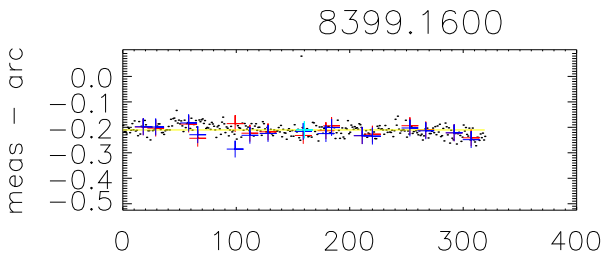

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

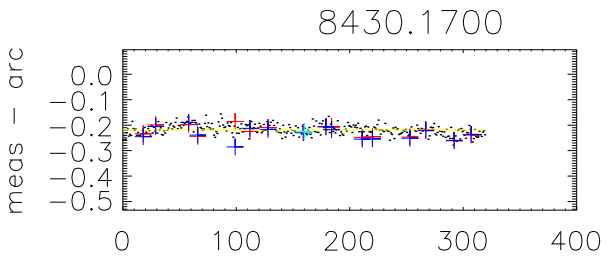

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

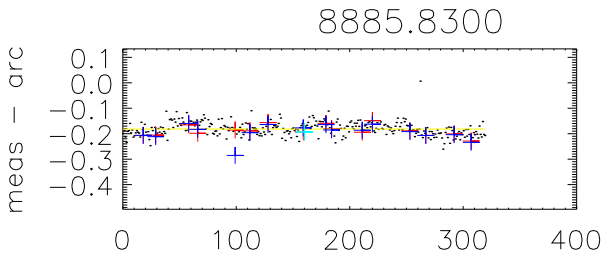

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

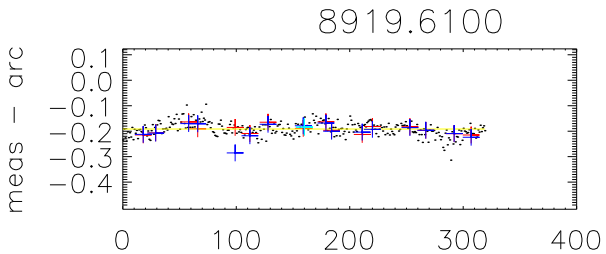

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

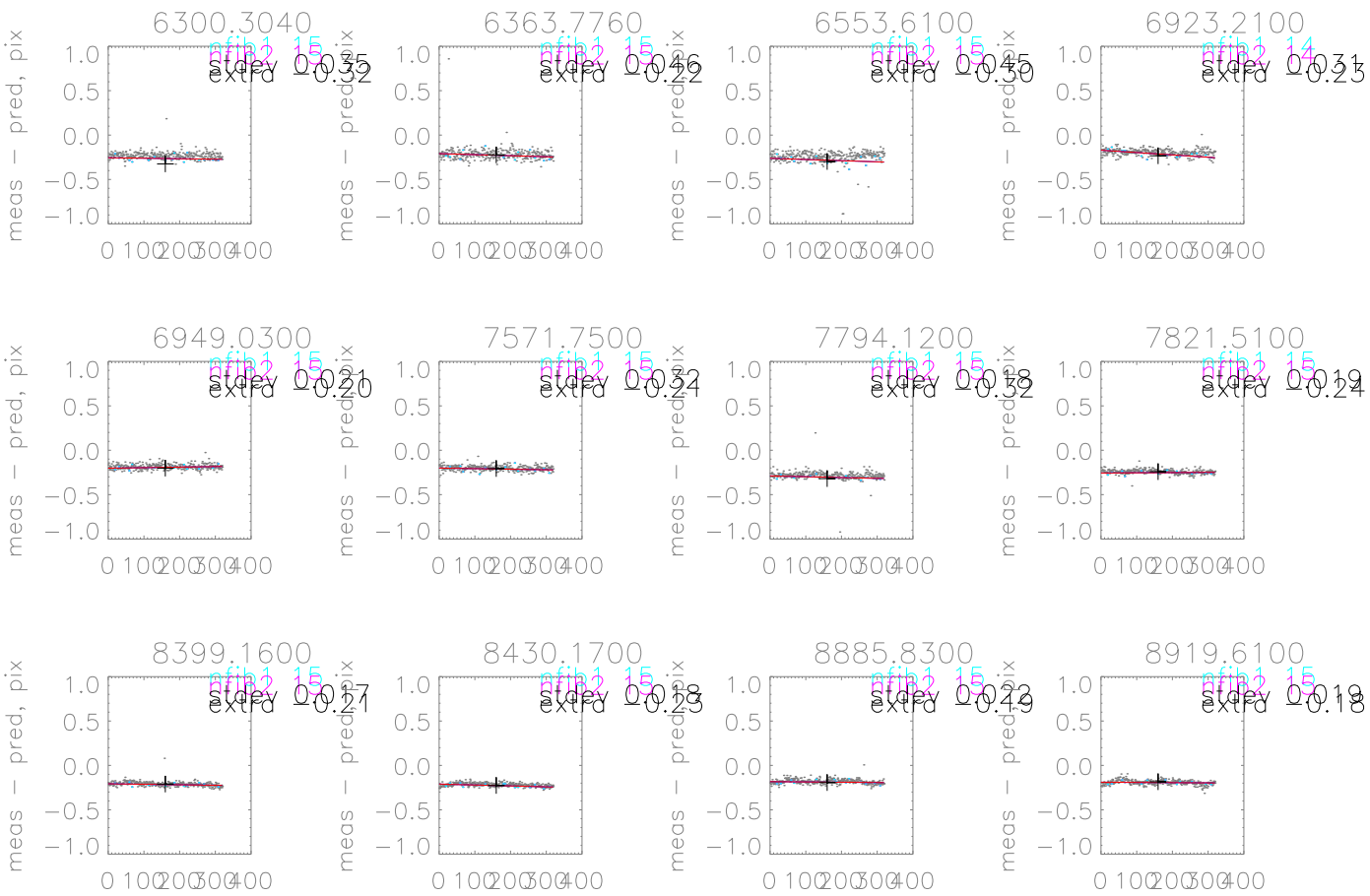

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

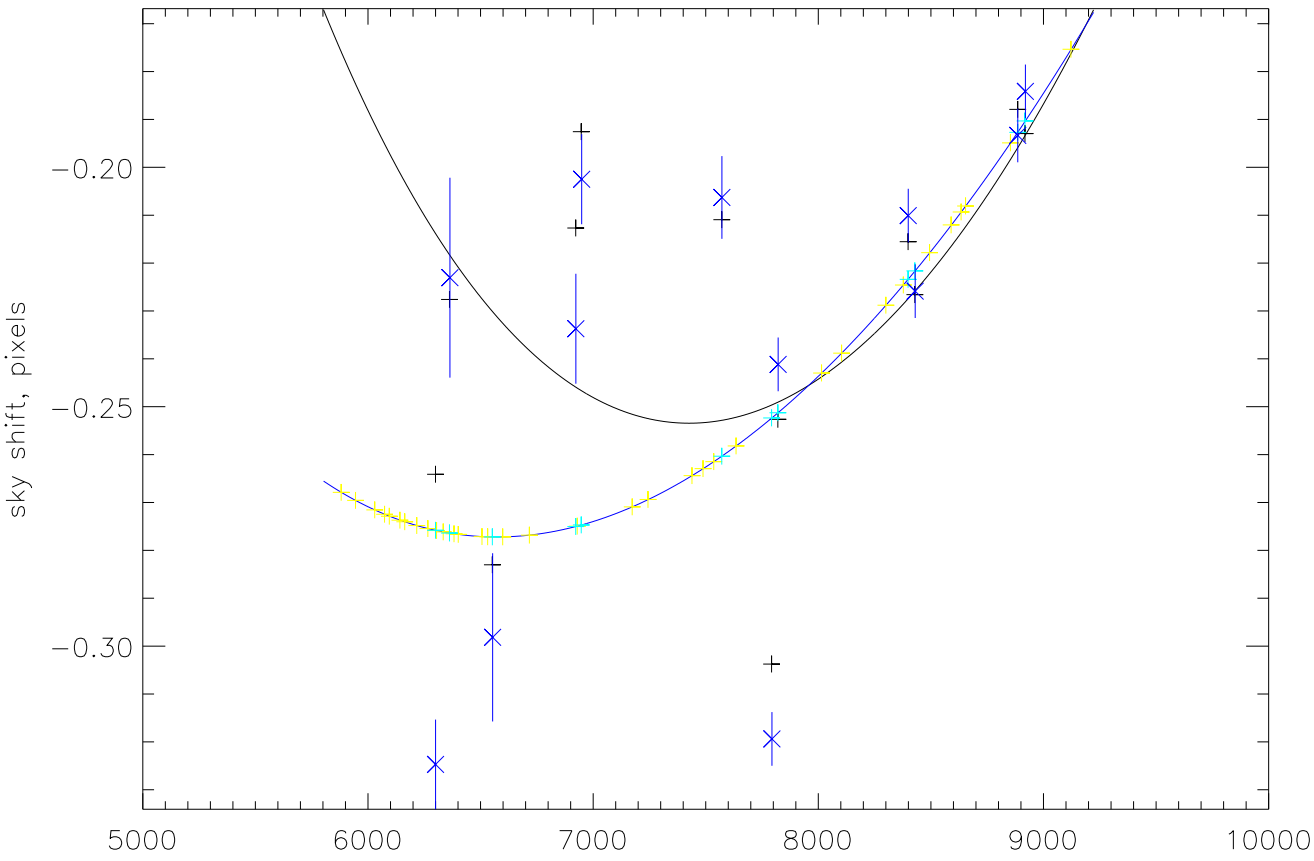

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

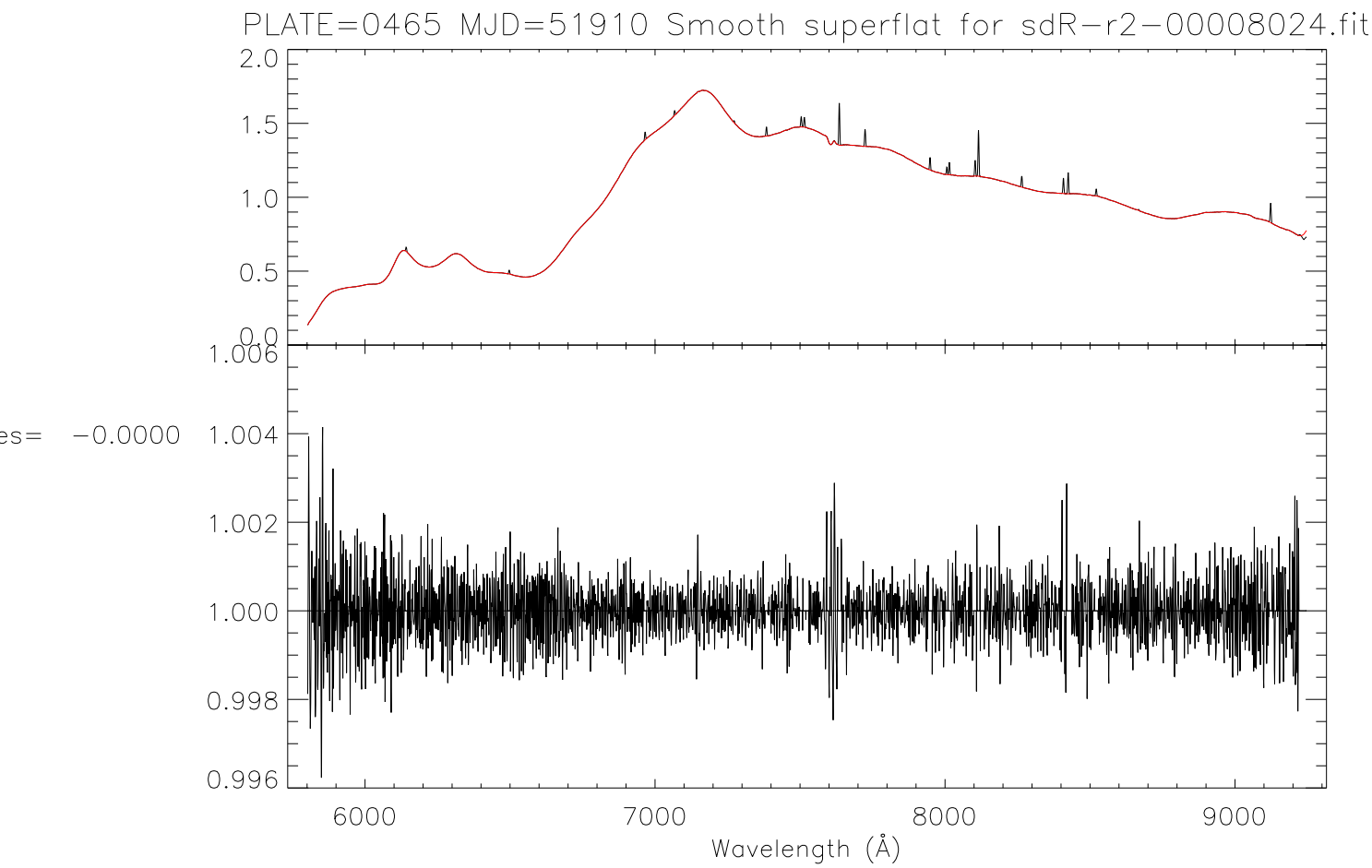

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

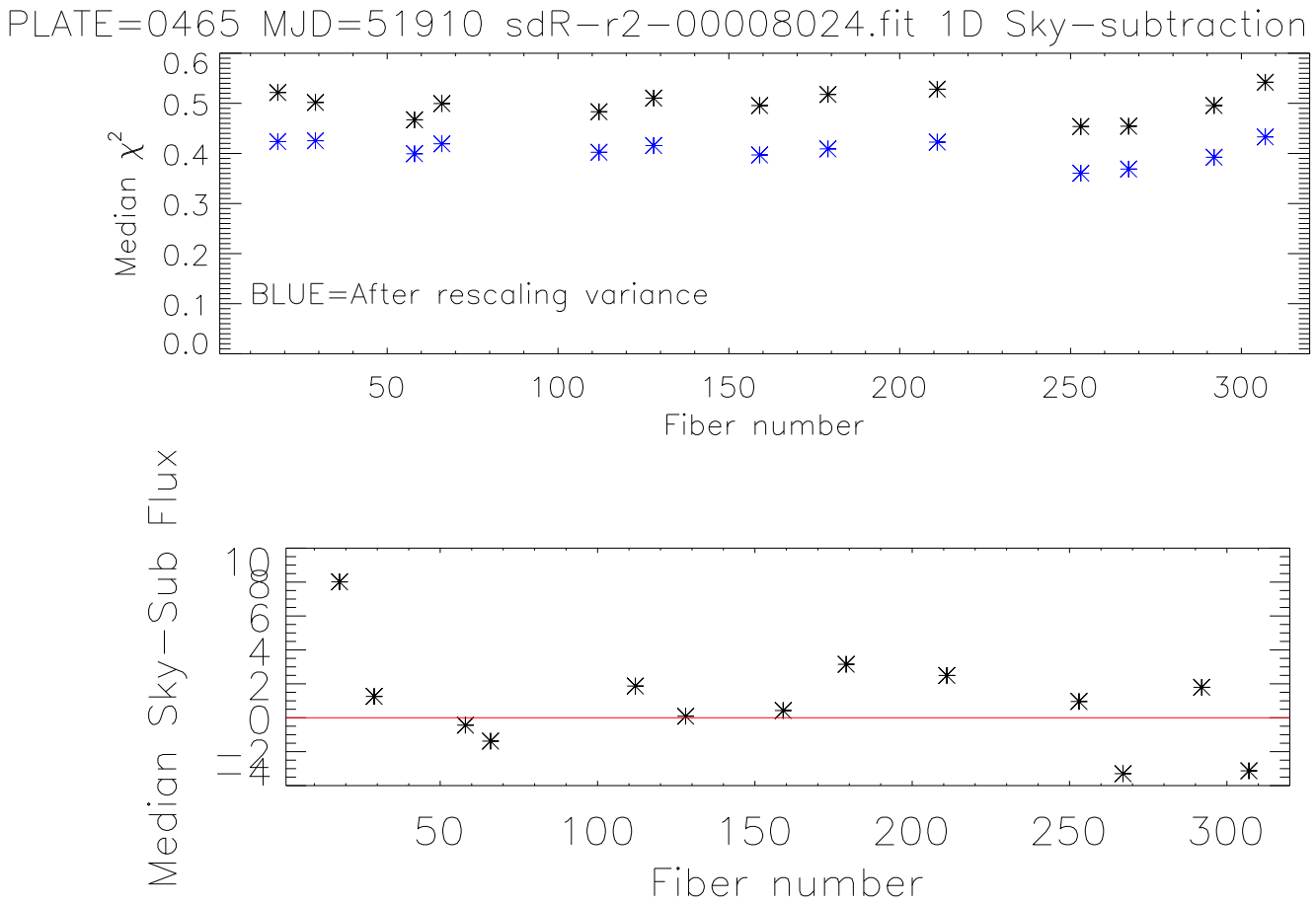

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

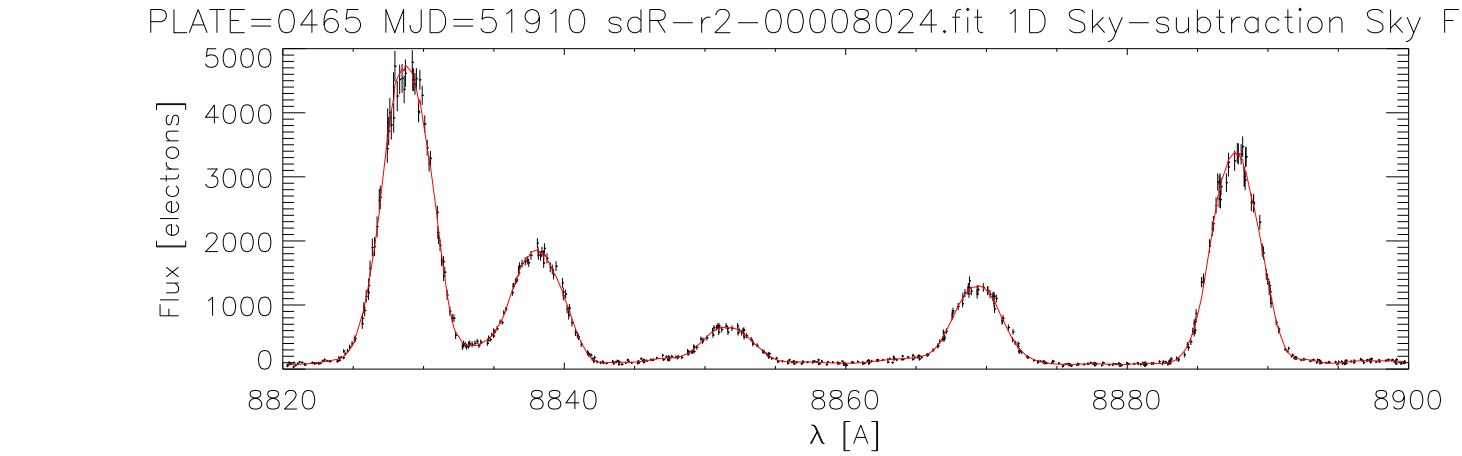

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

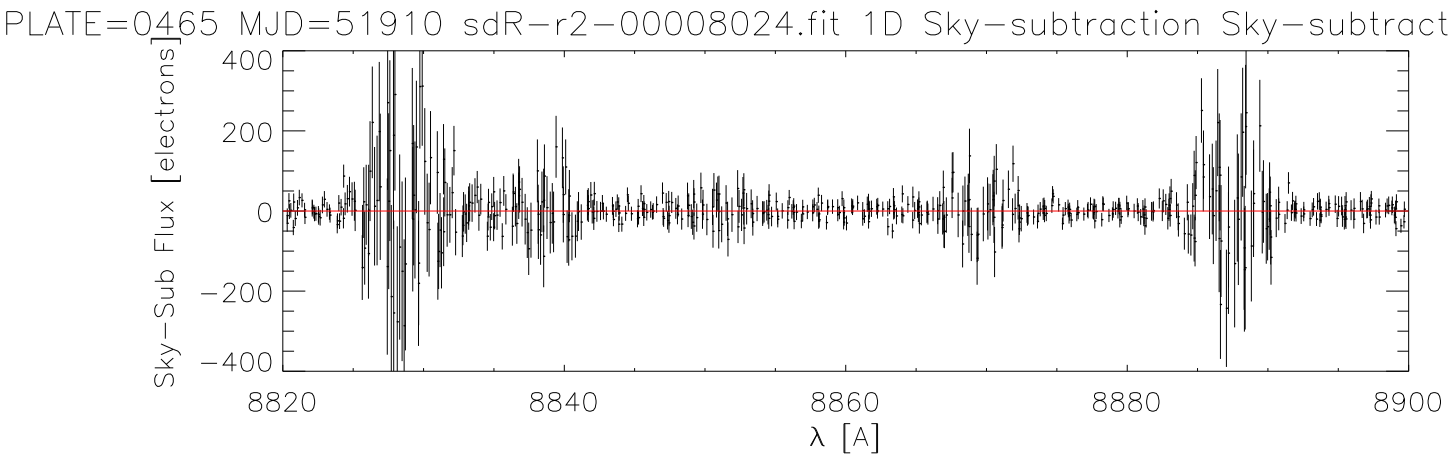

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhd2 15
stdev 0.035
extrd 0.32
stdev 0.046
extrd 0.22
stdev 0.045
extrd 0.30
mfhd2 14
stdev 0.031
extrd 0.23
stdev 0.021
extrd 0.20
stdev 0.032
extrd 0.24
stdev 0.018
extrd 0.32
stdev 0.019
extrd 0.24
stdev 0.017
extrd 0.21
stdev 0.018
extrd 0.23
stdev 0.032
extrd 0.49
stdev 0.019
extrd 0.18

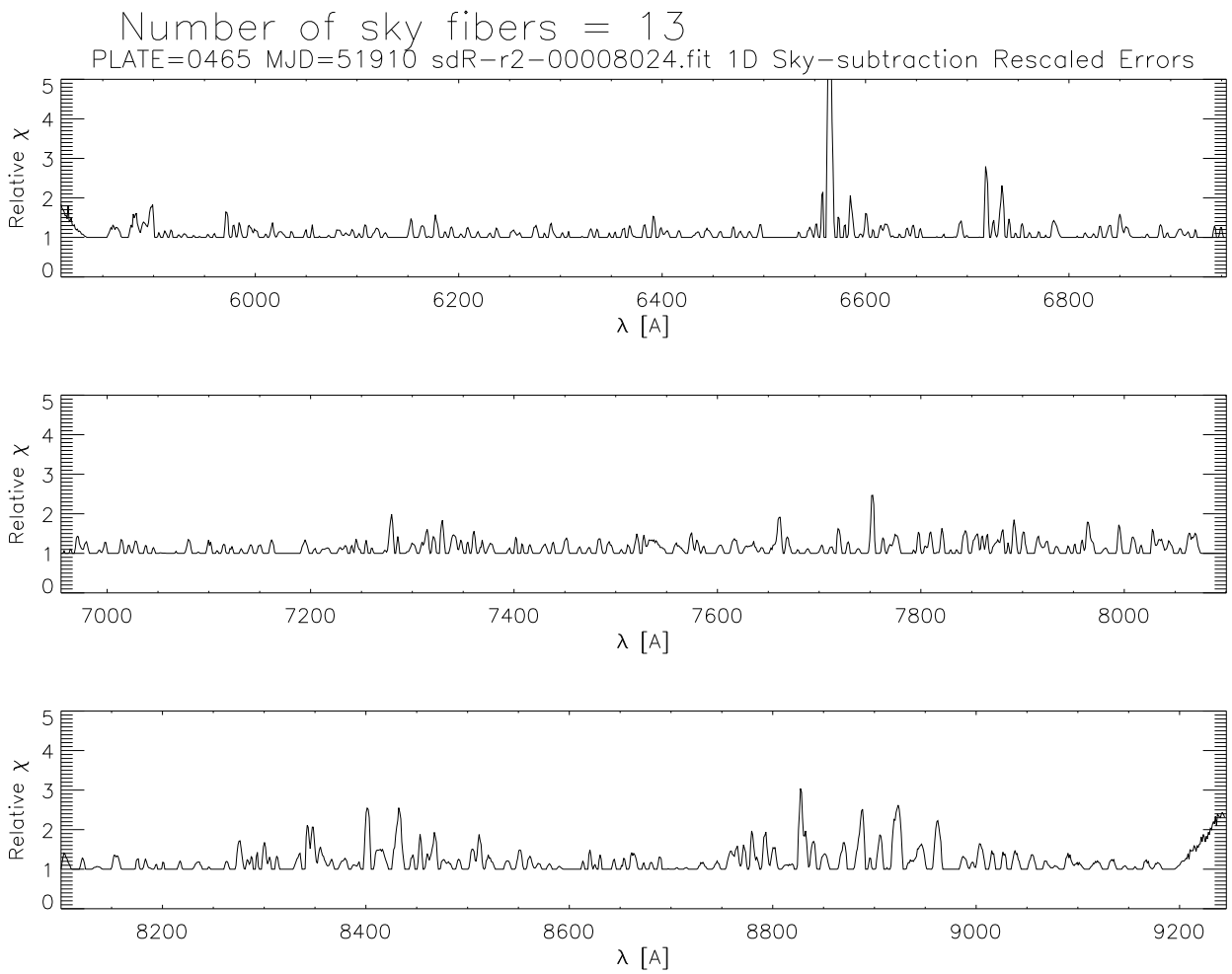

sky shift, pixels
−0.20
−0.25
−0.30
5000
6000
7000
8000
9000
10000

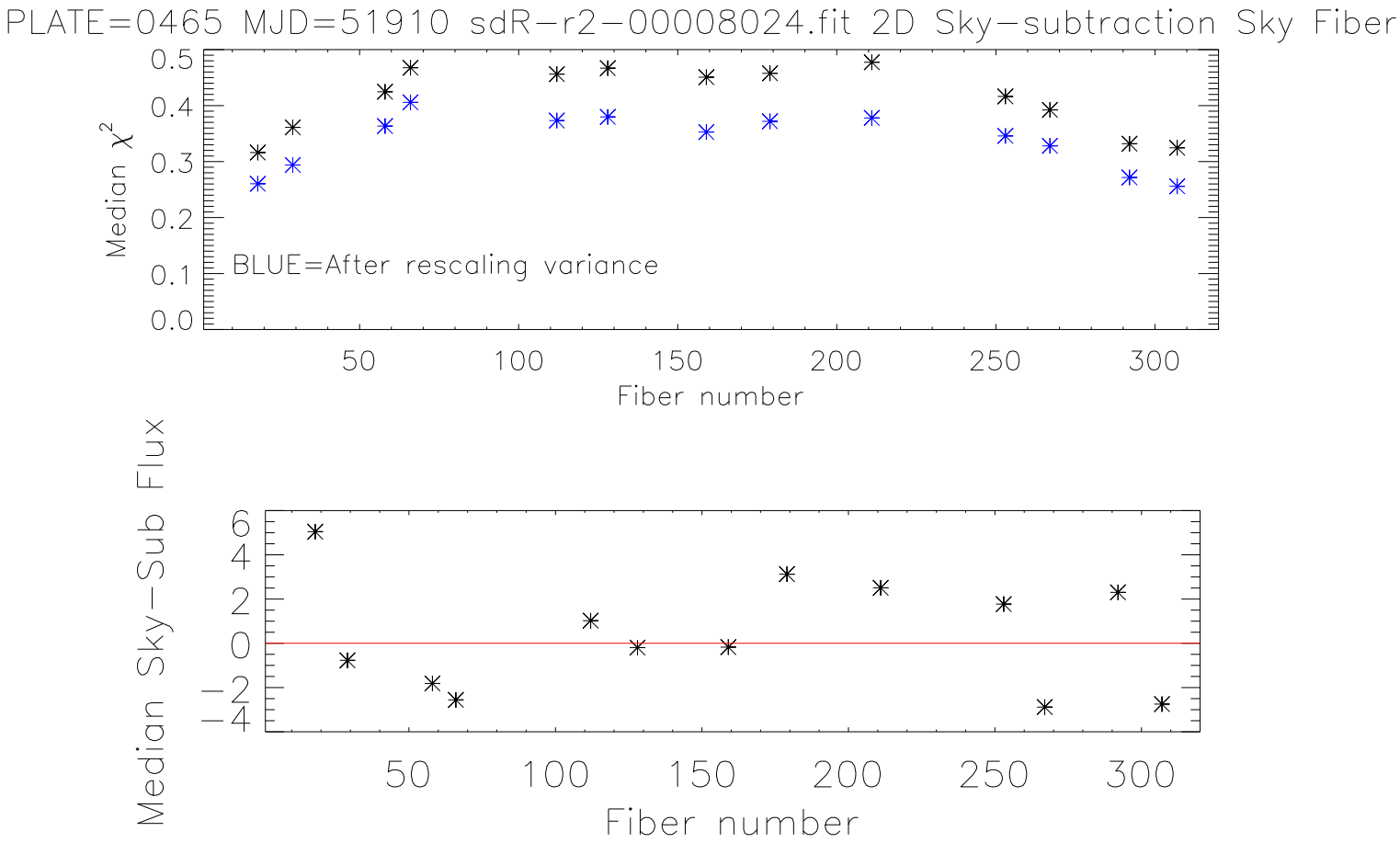

PLATE=0465 MJD=51910 Smooth superflat for sdR-r2-00008024.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

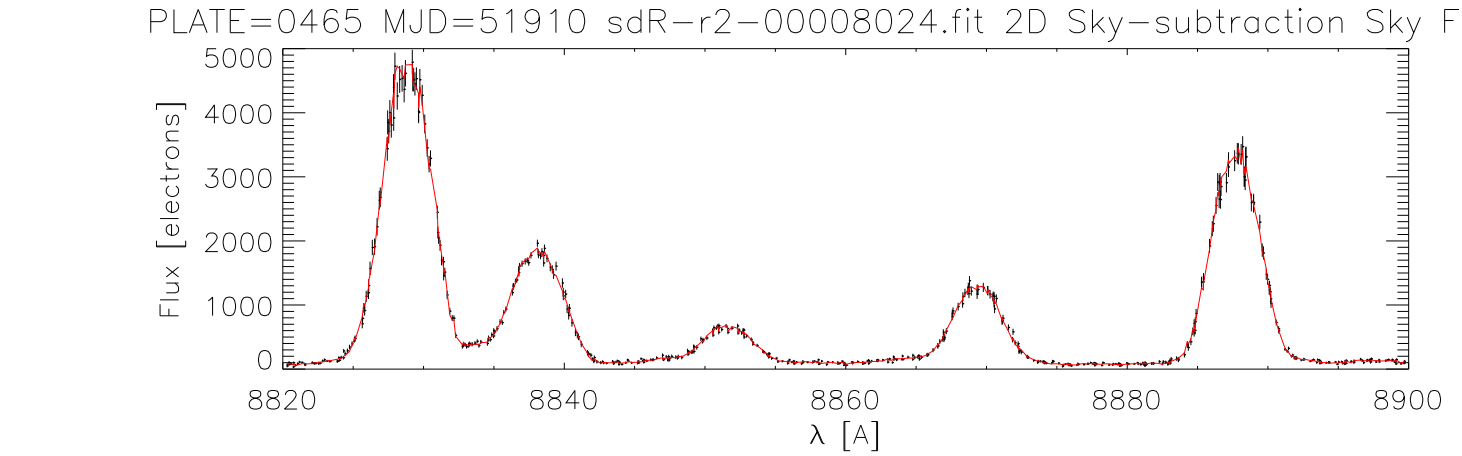

PLATE=0465 MJD=51910 sdR-r2-00008024.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
0
2
4
6
8
10
50
100
150
200
250
300
Fiber number

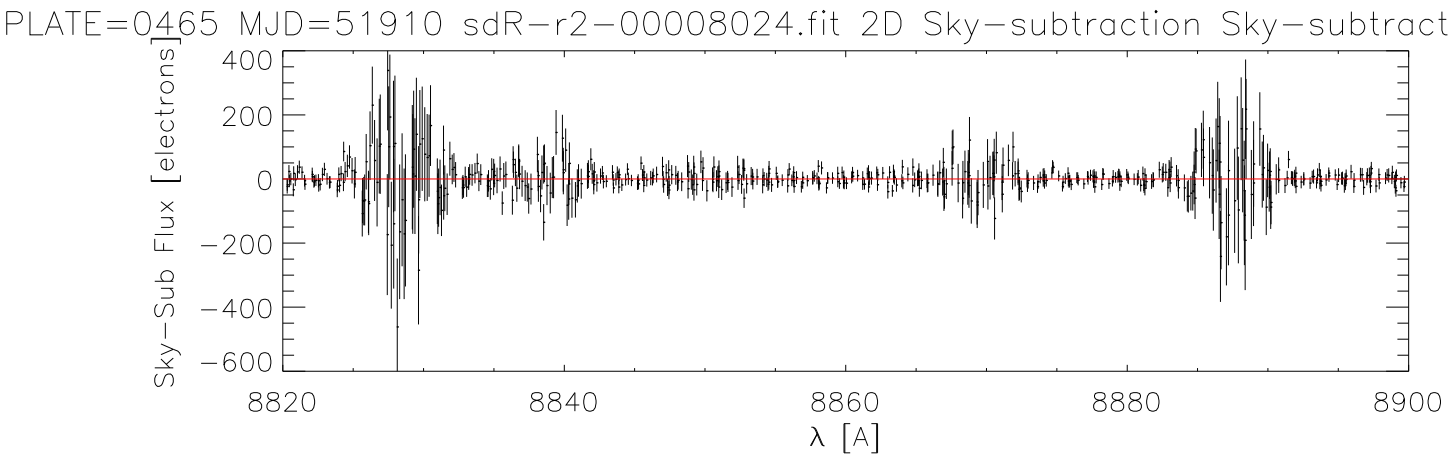

PLATE=0465 MJD=51910 sdR-r2-00008024.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

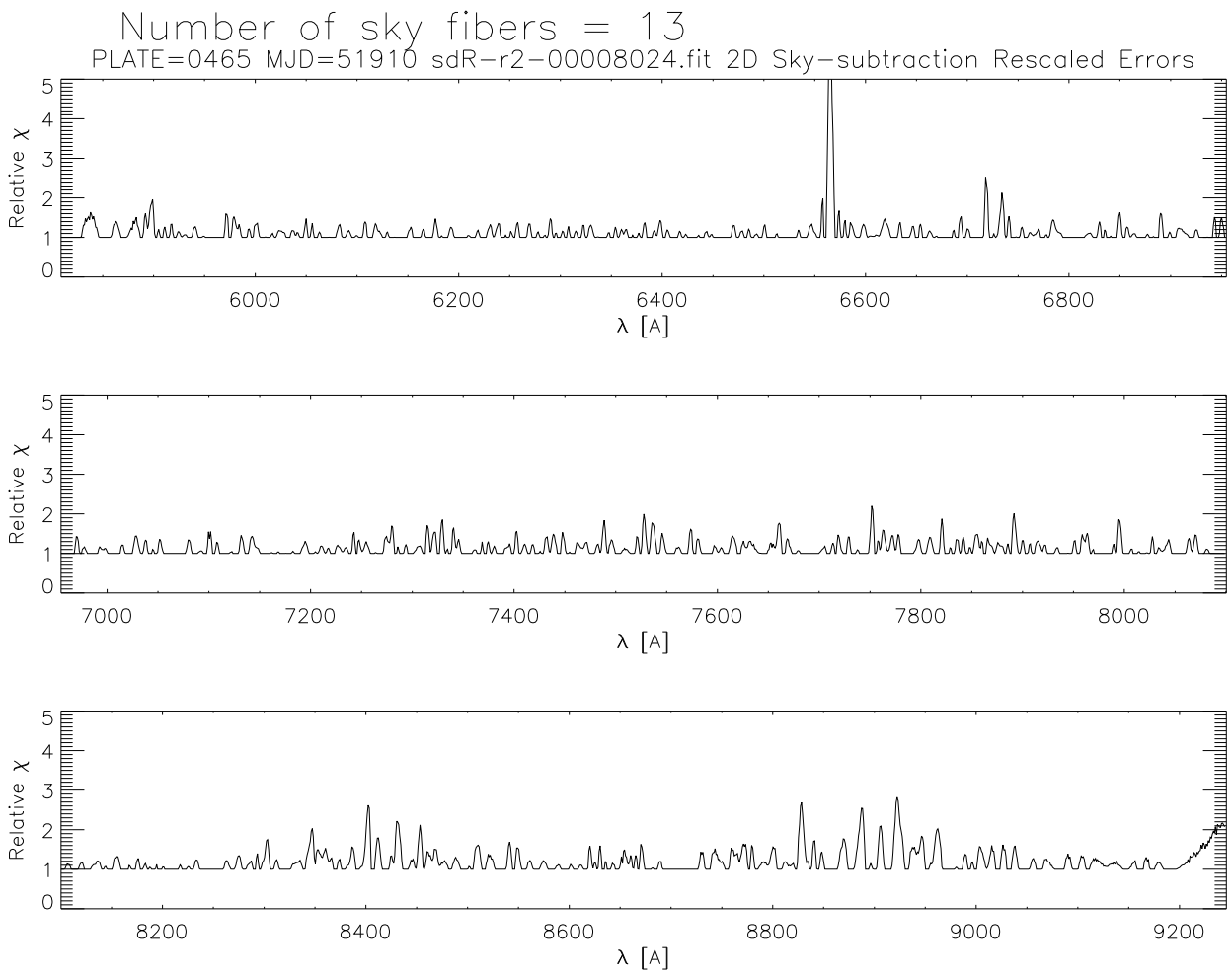

PLATE=0465 MJD=51910 sdR-r2-00008024.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

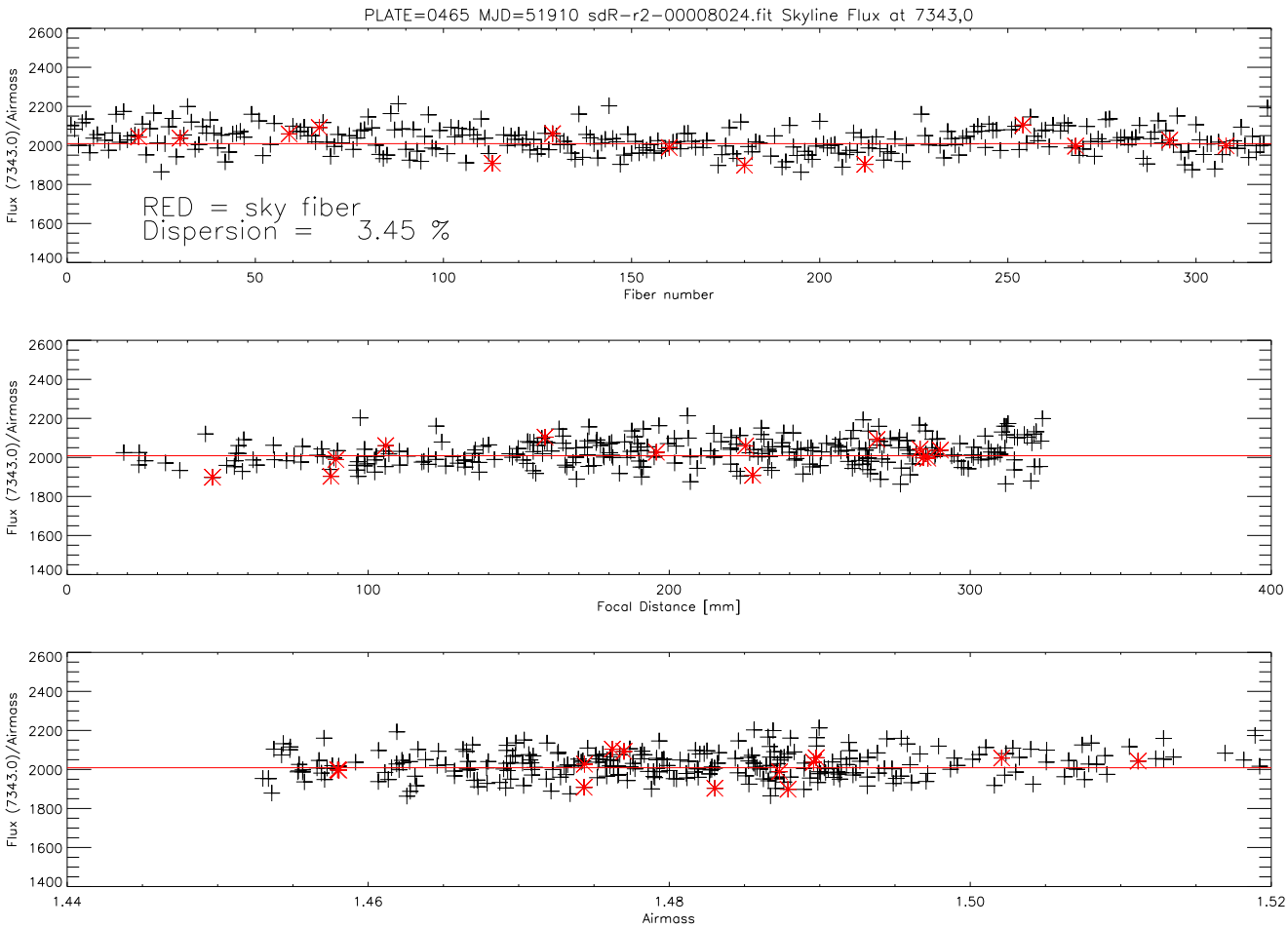

Number of sky fibers = 13
PLATE=0465 MJD=51910 sdR-r2-00008024.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

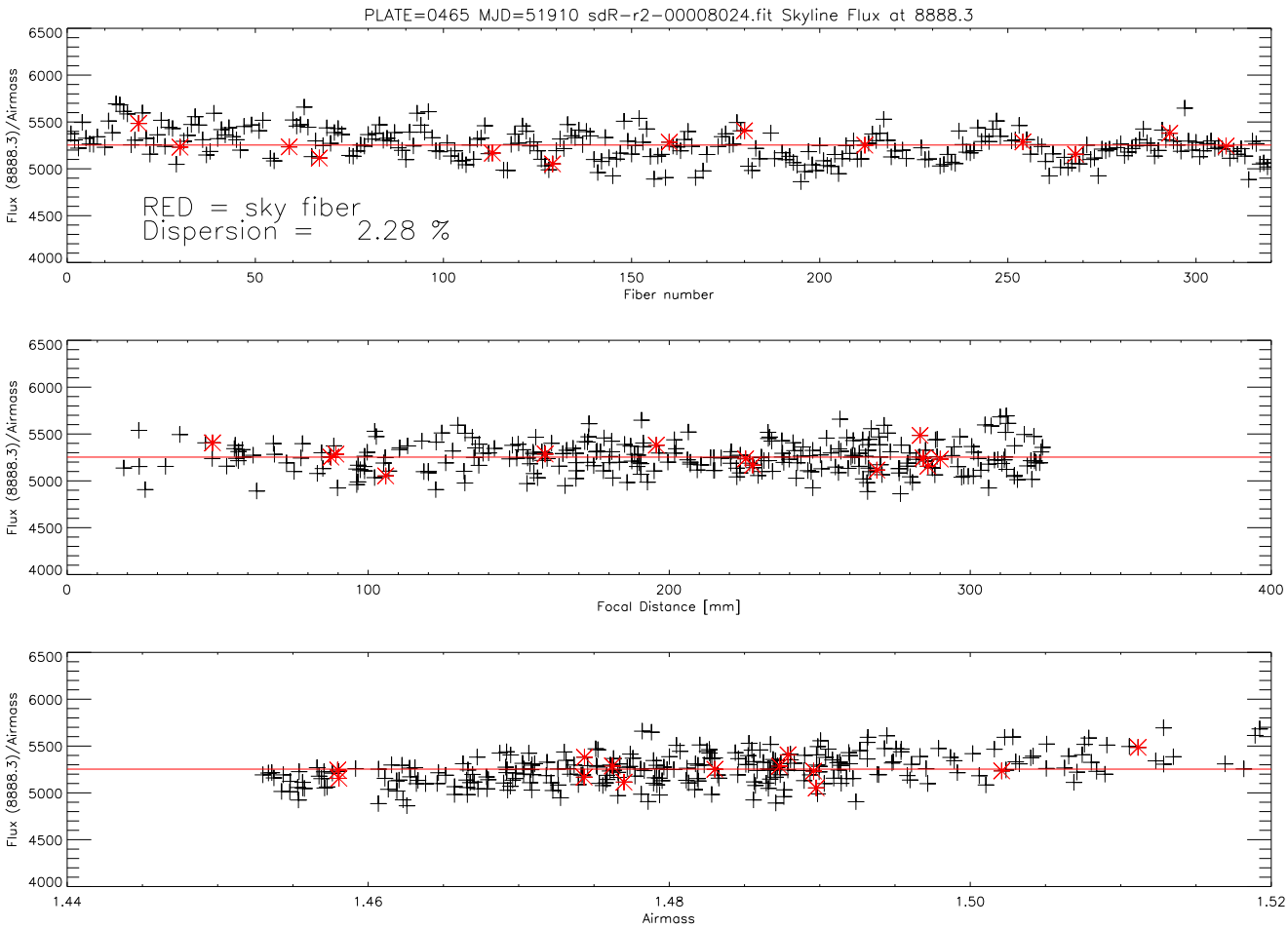

PLATE=0465 MJD=51910 sdR-r2-00008024.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

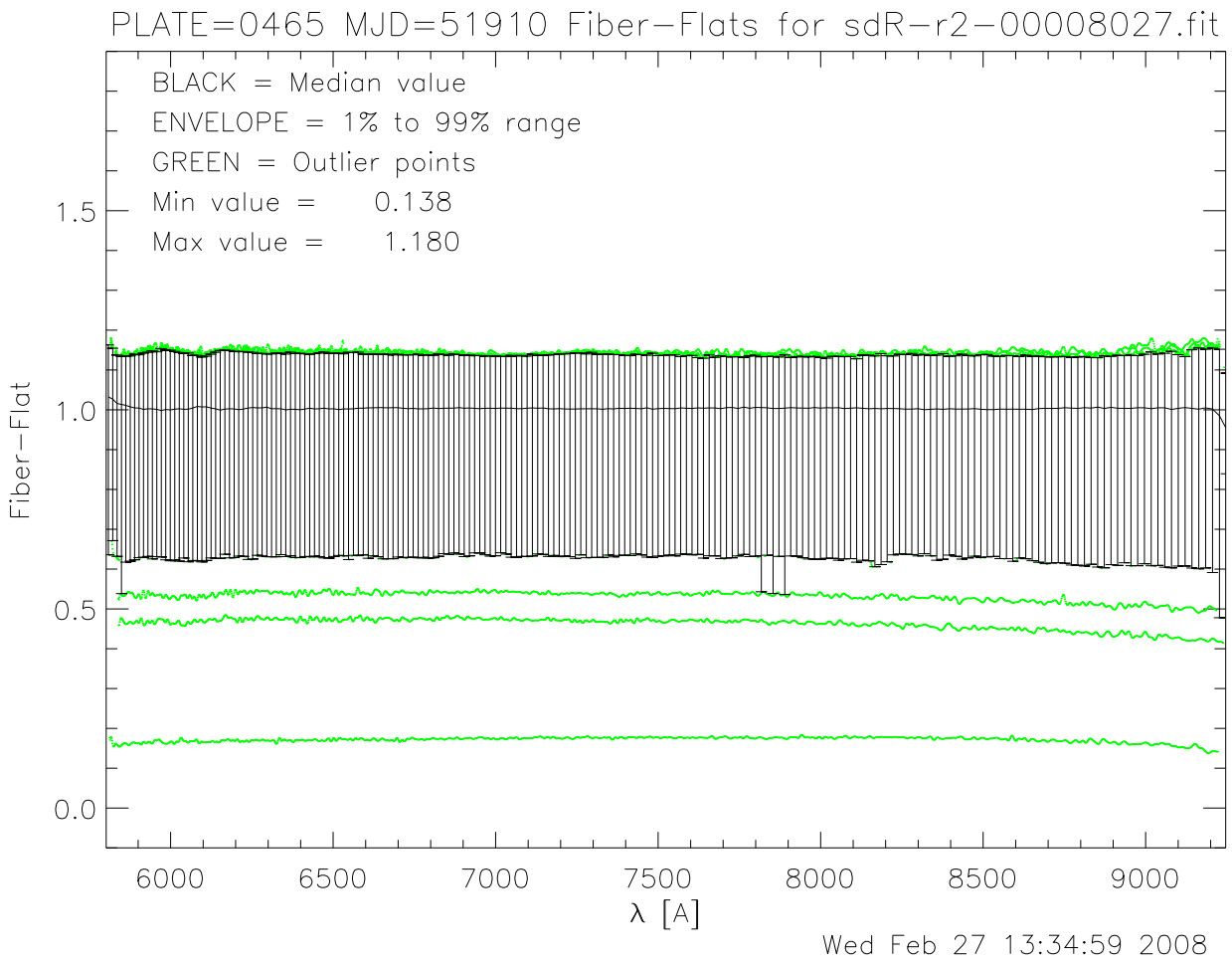

PLATE=0465 MJD=51910 sdR-r2-00008024.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

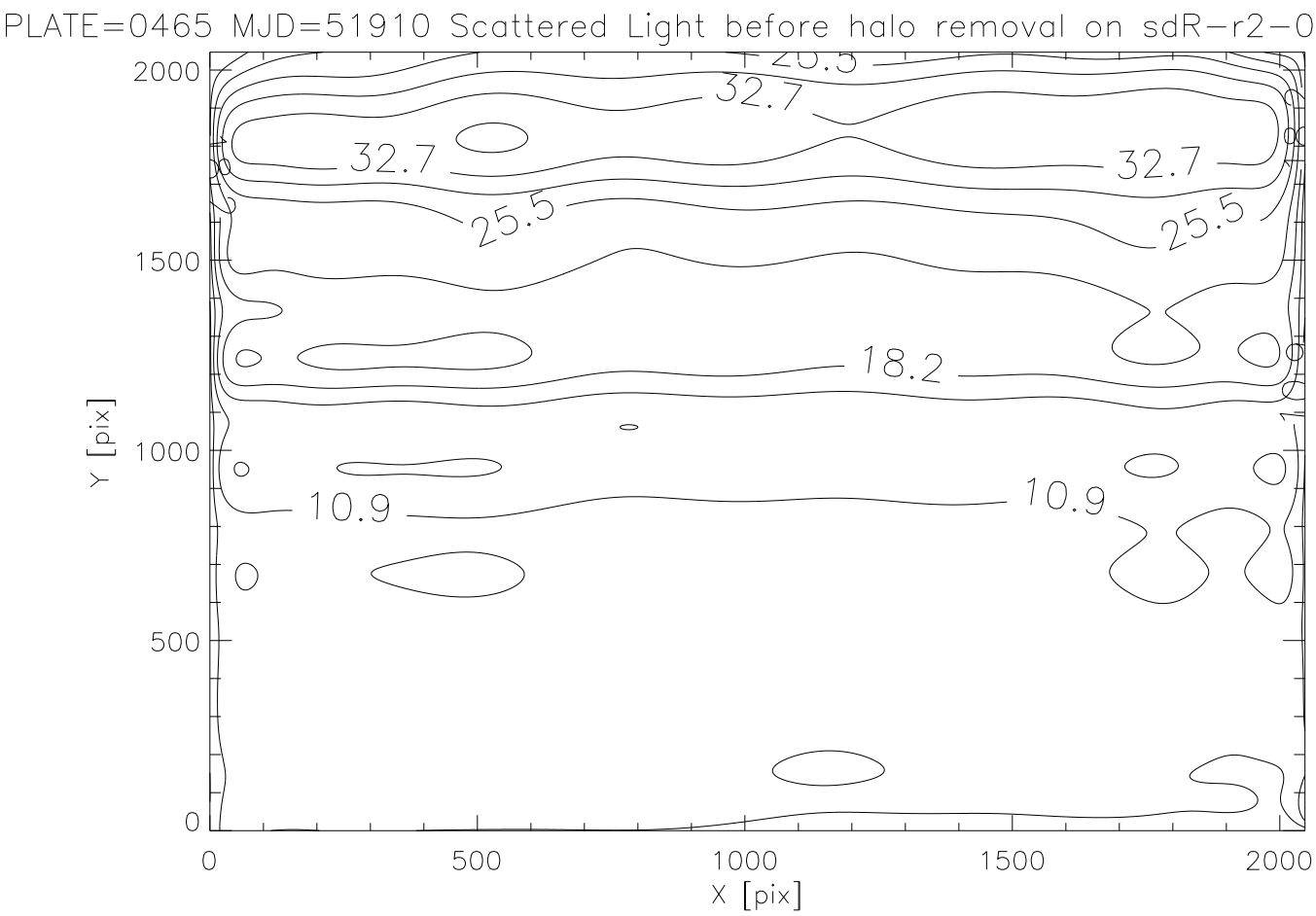

PLATE=0465 MJD=51910 sdR-r2-00008024.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

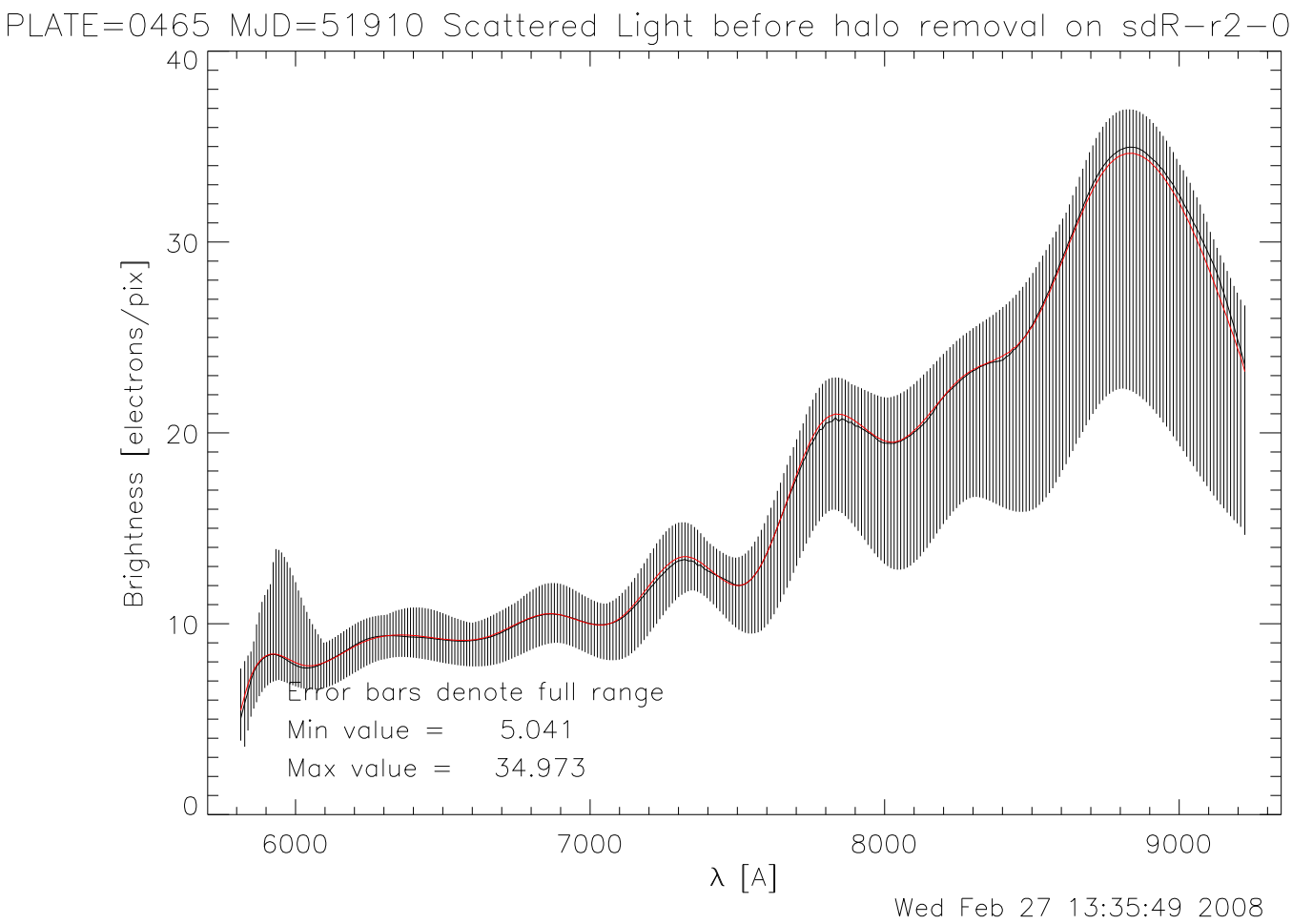

Number of sky fibers = 13
PLATE=0465 MJD=51910 sdR-r2-00008024.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

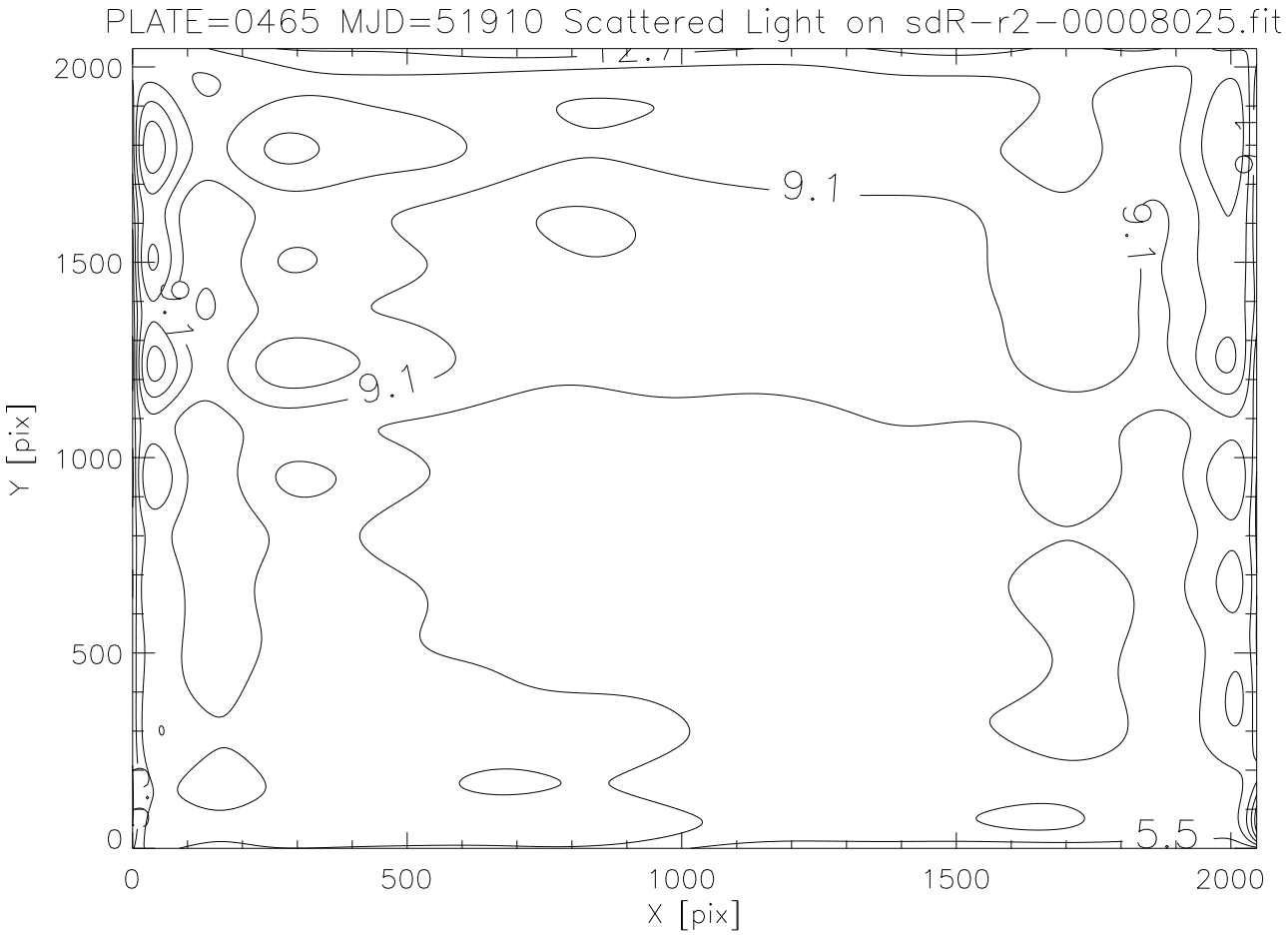

PLATE=0465 MJD=51910 sdR-r2-00008024.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.45 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

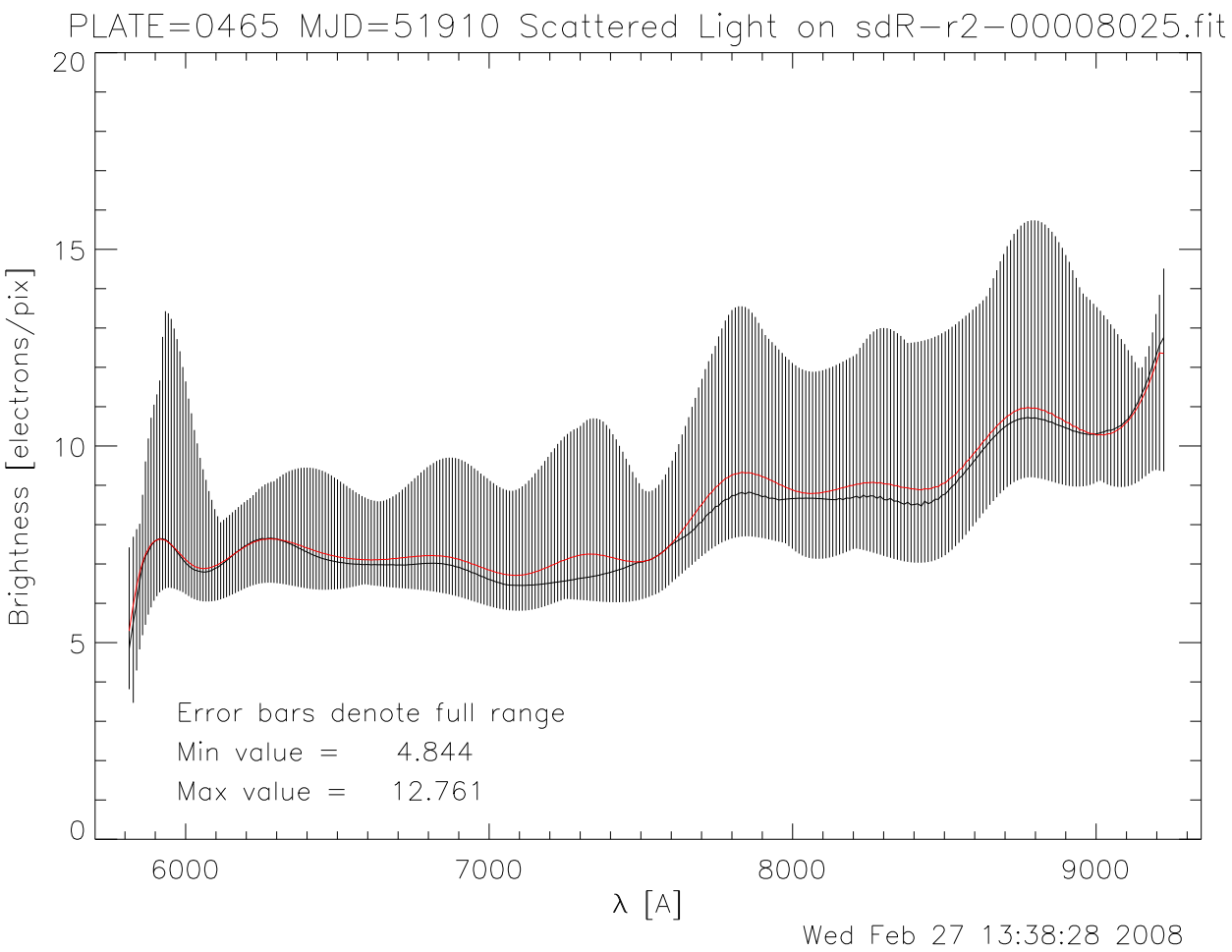

PLATE=0465 MJD=51910 sdR-r2-00008024.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.28 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

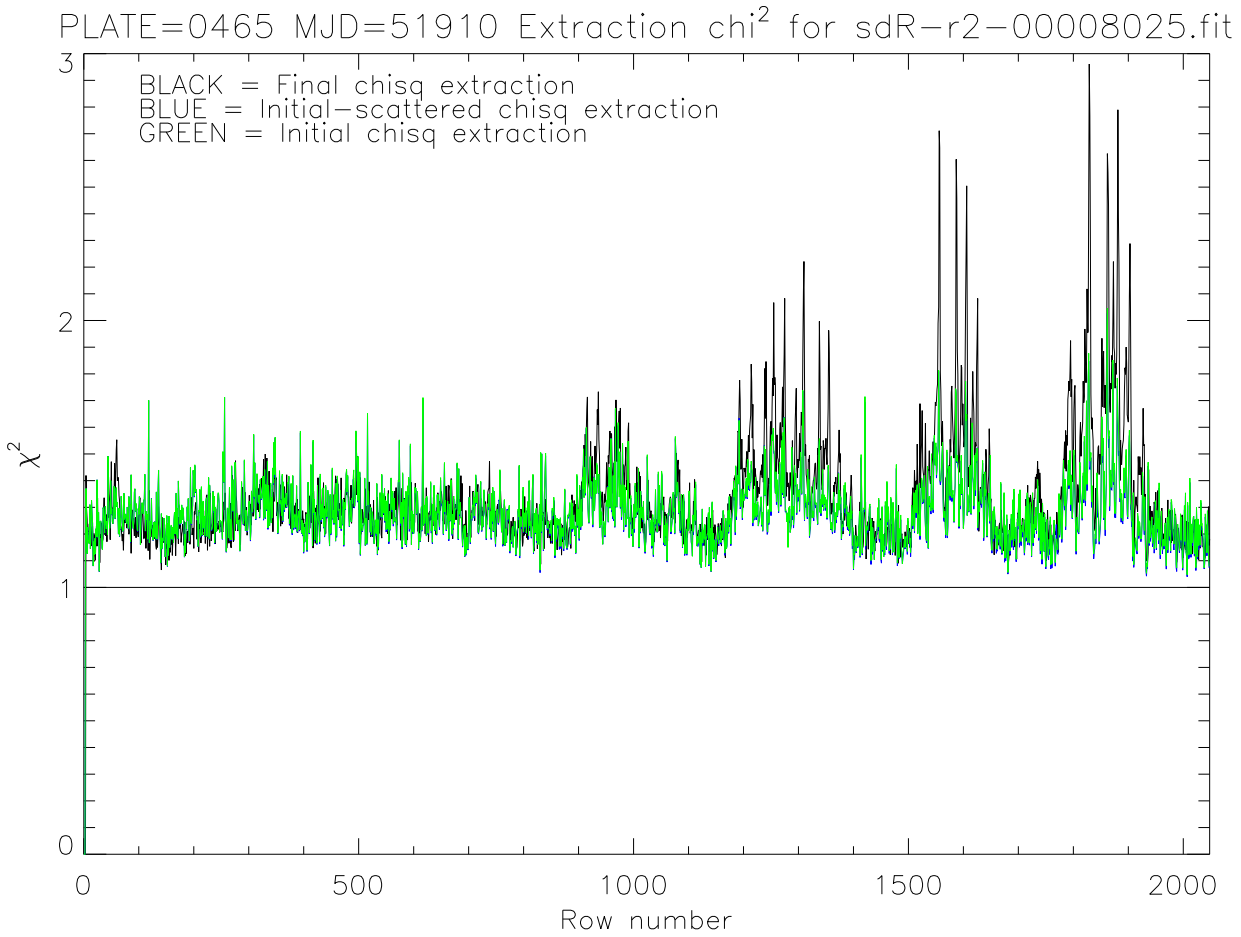

PLATE=0465 MJD=51910 Fiber−Flats for sdR−r2−00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.138
Max value = 1.180
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 13:34:59 2008

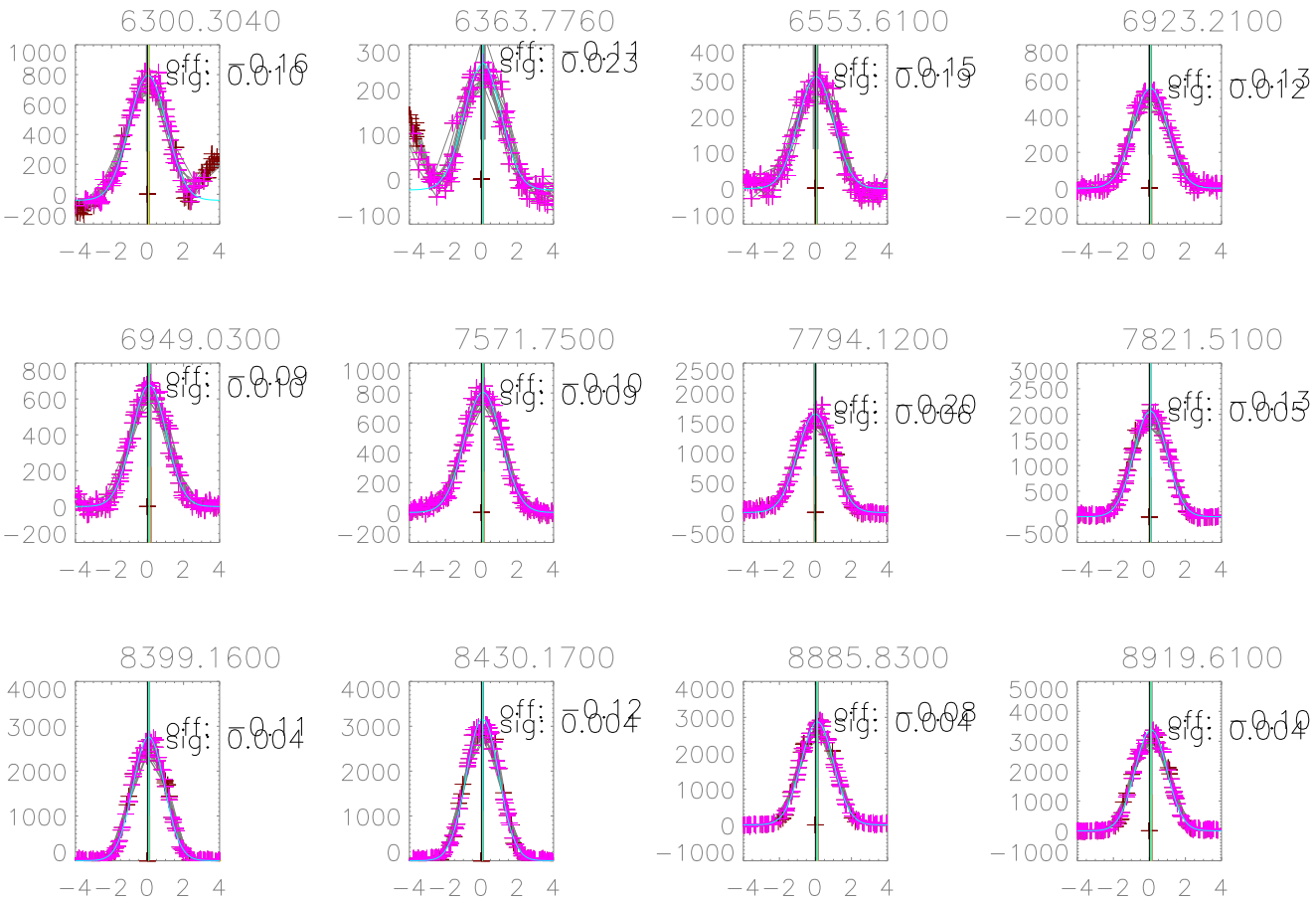

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r2-00008025.fi
25.5
32.7
32.7
32.7
25.5
25.5
18.2
10.9
10.9
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

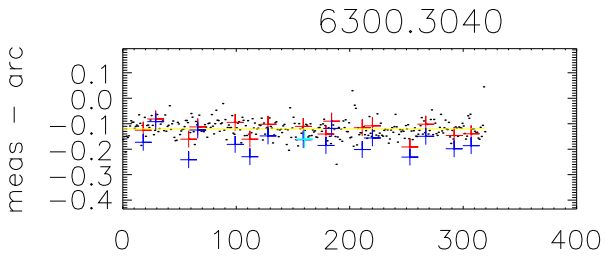

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r2-00008025.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.041
Max value = 34.973
Wed Feb 27 13:35:49 2008

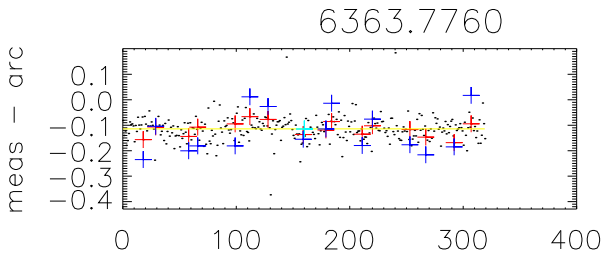

PLATE=0465 MJD=51910 Scattered Light on sdR-r2-00008025.fit
9.1
9.1
9.1
5.5
Y [pix]
X [pix]
0
500
1000
1500
2000

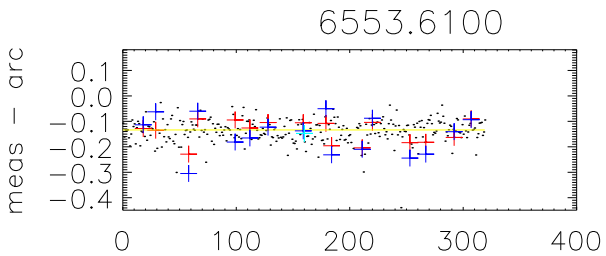

PLATE=0465 MJD=51910 Scattered Light on sdR-r2-00008025.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 4.844
Max value = 12.761
Wed Feb 27 13:38:28 2008

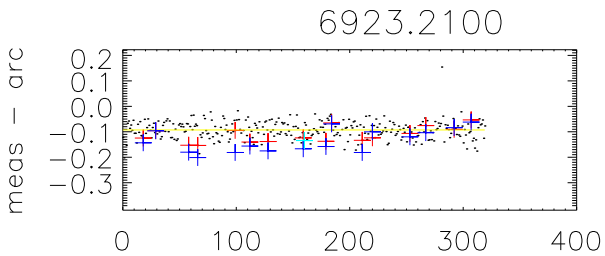

PLATE=0465 MJD=51910 Extraction chi^2 for sdR−r2−00008025.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
0
500
1000
1500
2000
Row number

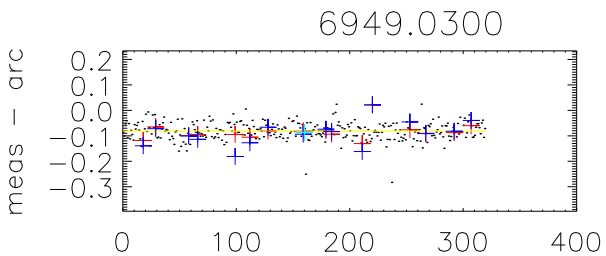

6300.3040
off: −0.16
sig: 0.010
6363.7760
off: −0.11
sig: 0.023
6553.6100
off: −0.15
sig: 0.019
6923.2100
off: −0.13
sig: 0.012
6949.0300
off: −0.09
sig: 0.010
7571.7500
off: −0.10
sig: 0.009
7794.1200
off: −0.20
sig: 0.006
7821.5100
off: −0.13
sig: 0.005
8399.1600
off: −0.11
sig: 0.004
8430.1700
off: −0.12
sig: 0.004
8885.8300
off: −0.08
sig: 0.004
8919.6100
off: −0.10
sig: 0.004

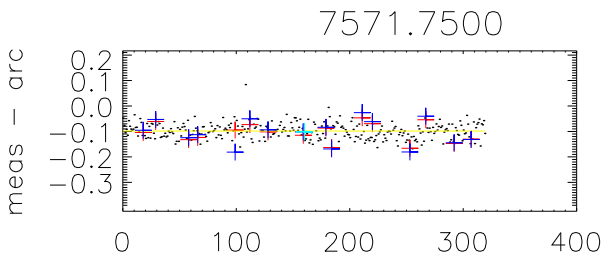

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

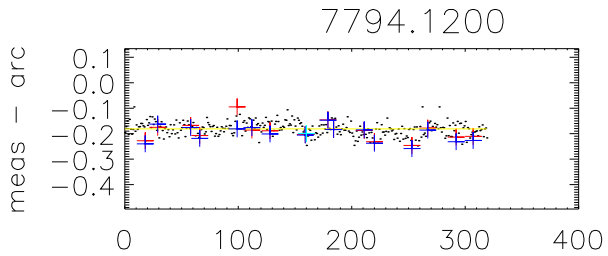

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

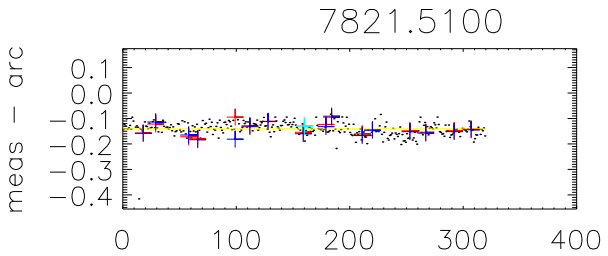

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

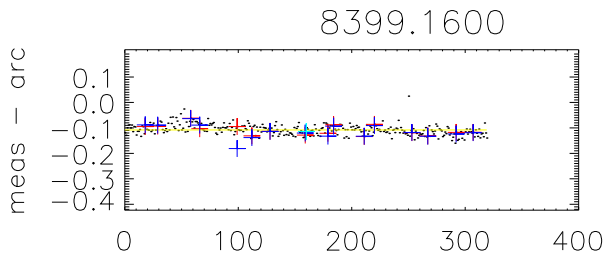

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

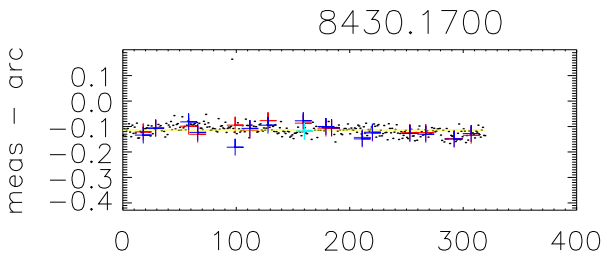

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

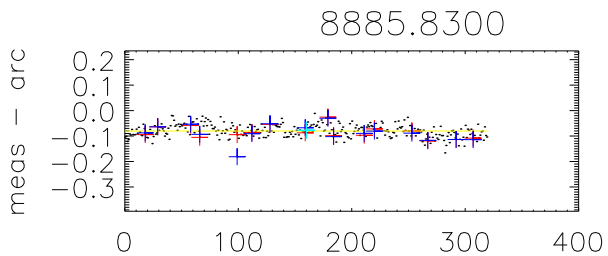

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

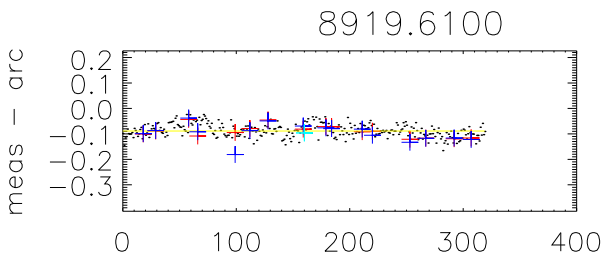

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

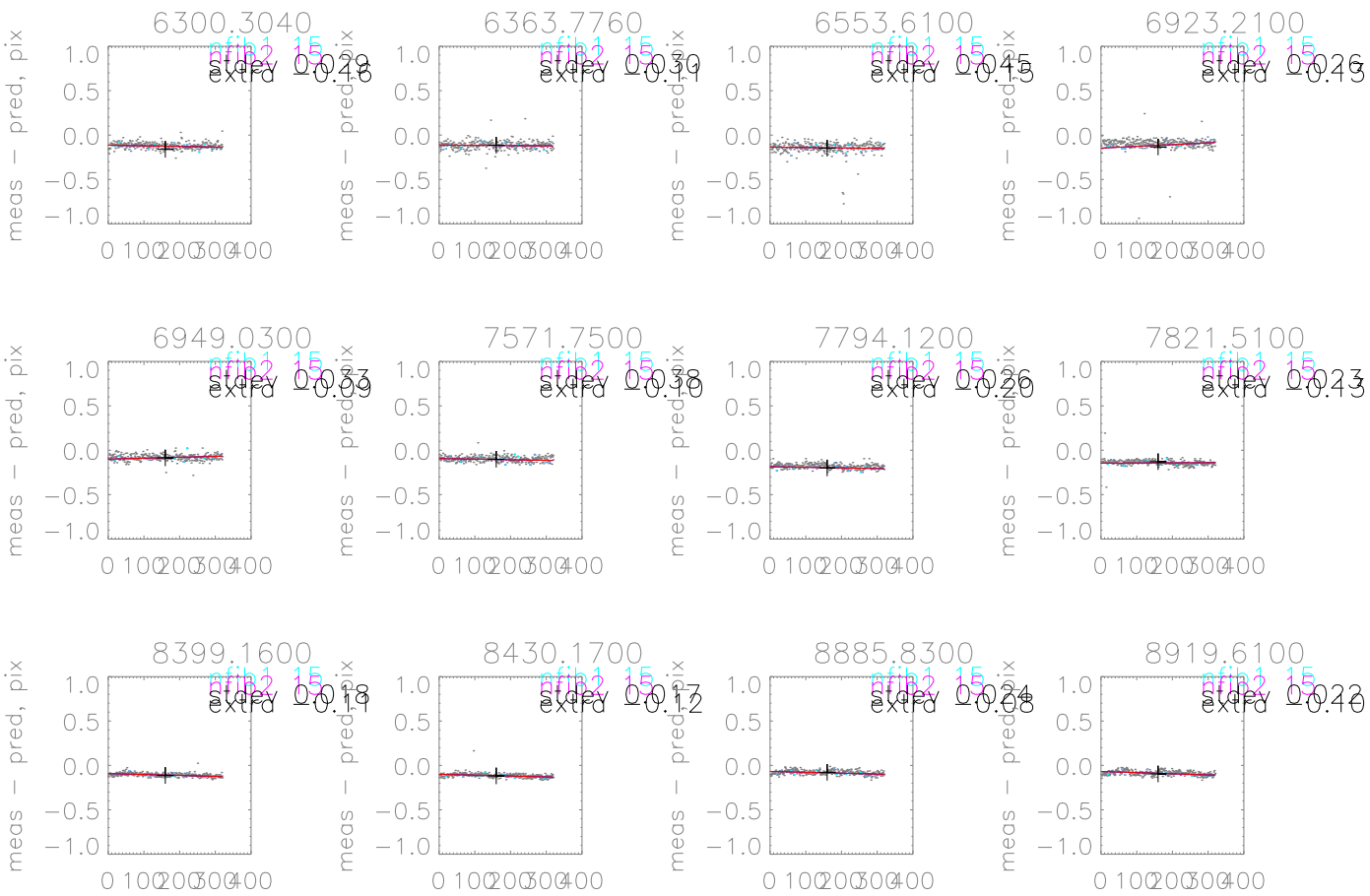

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

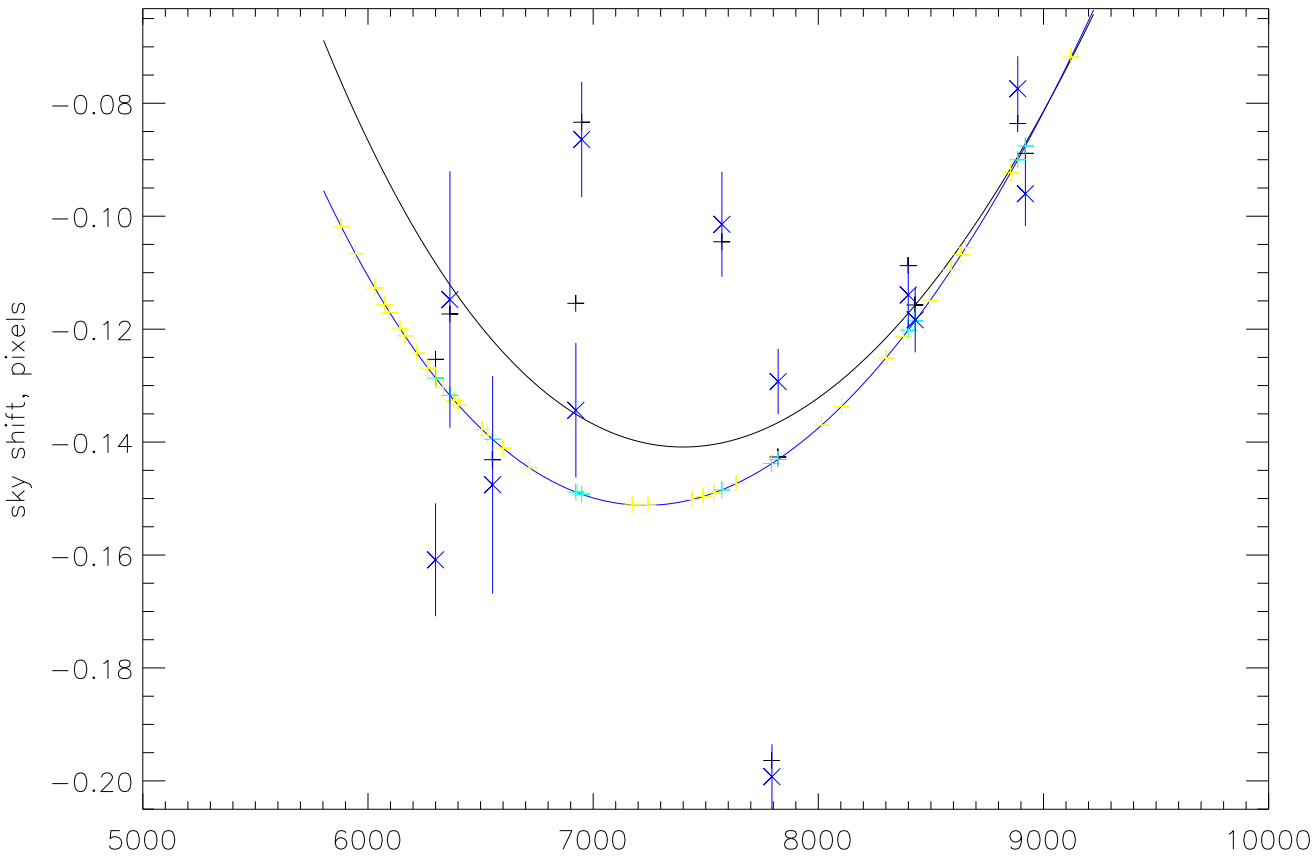

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

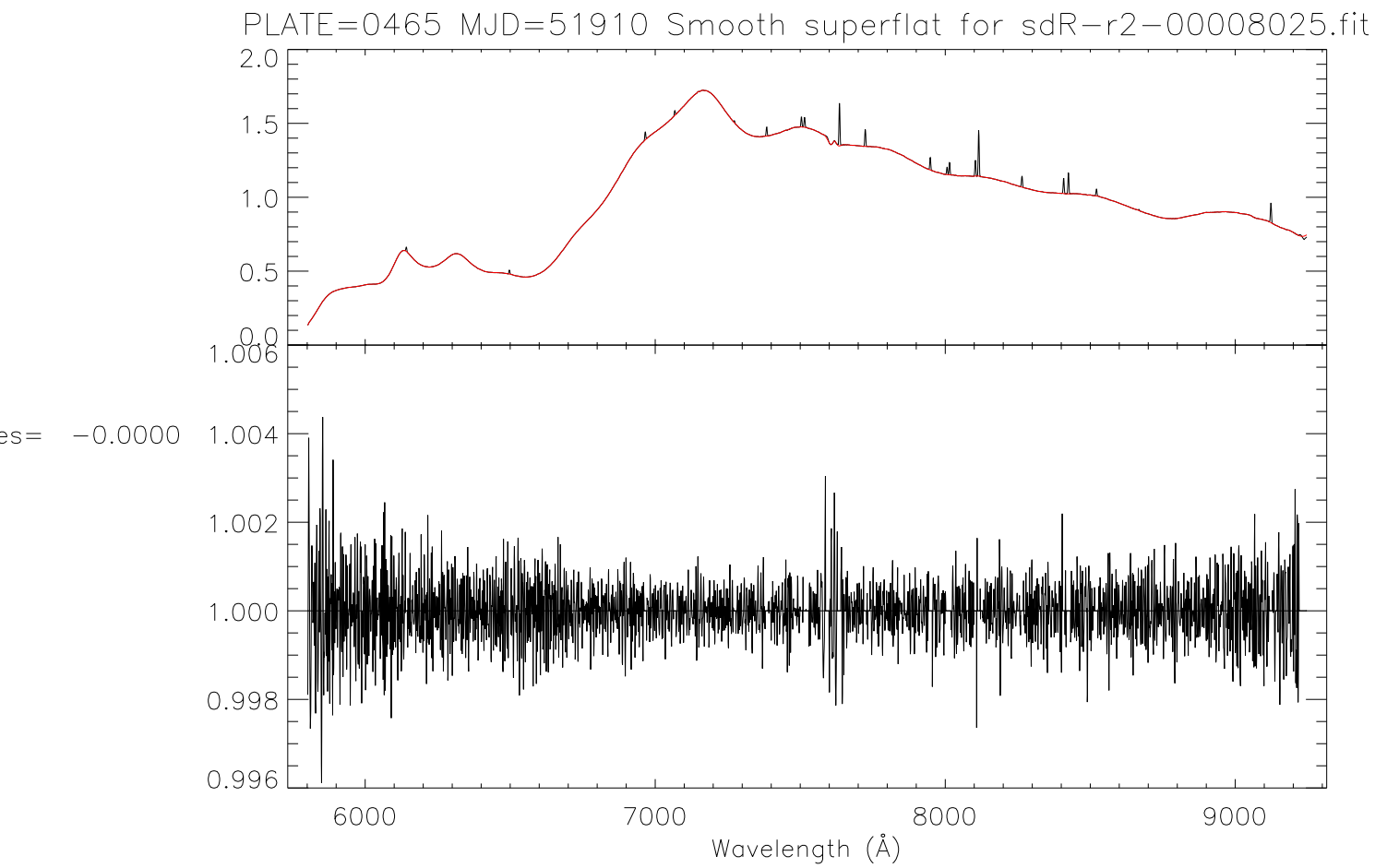

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

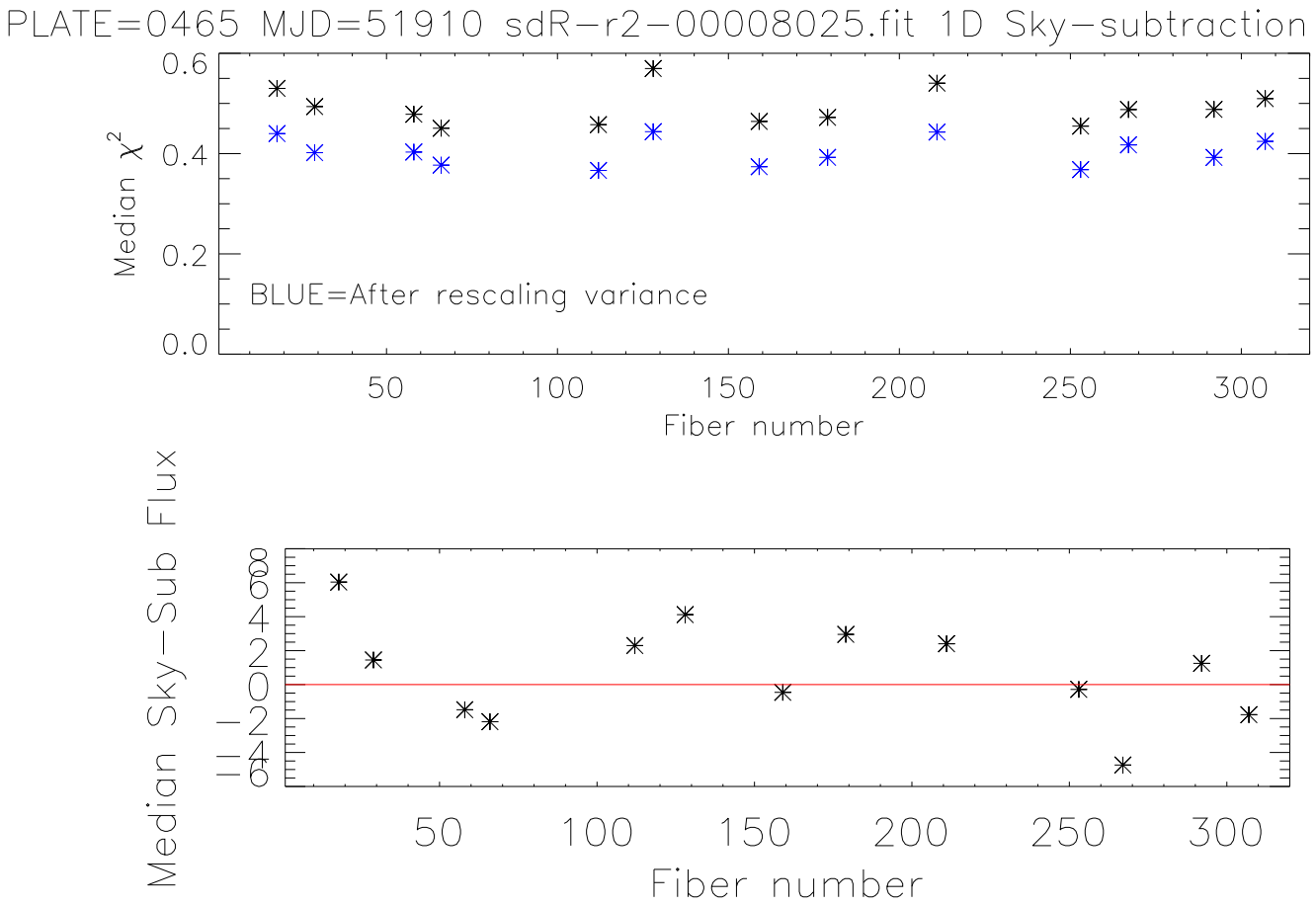

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

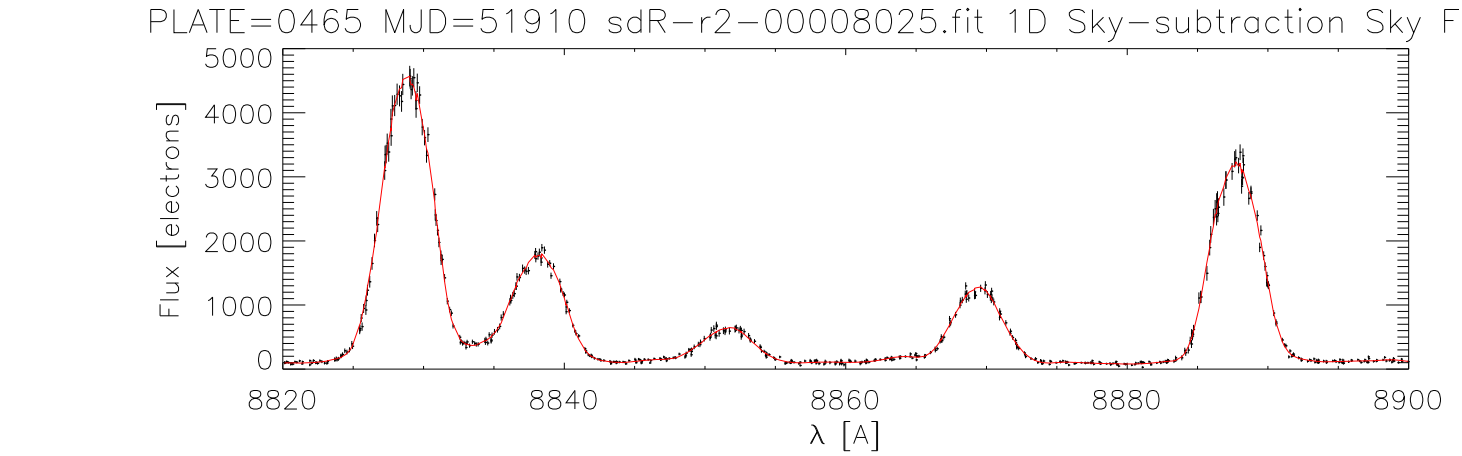

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

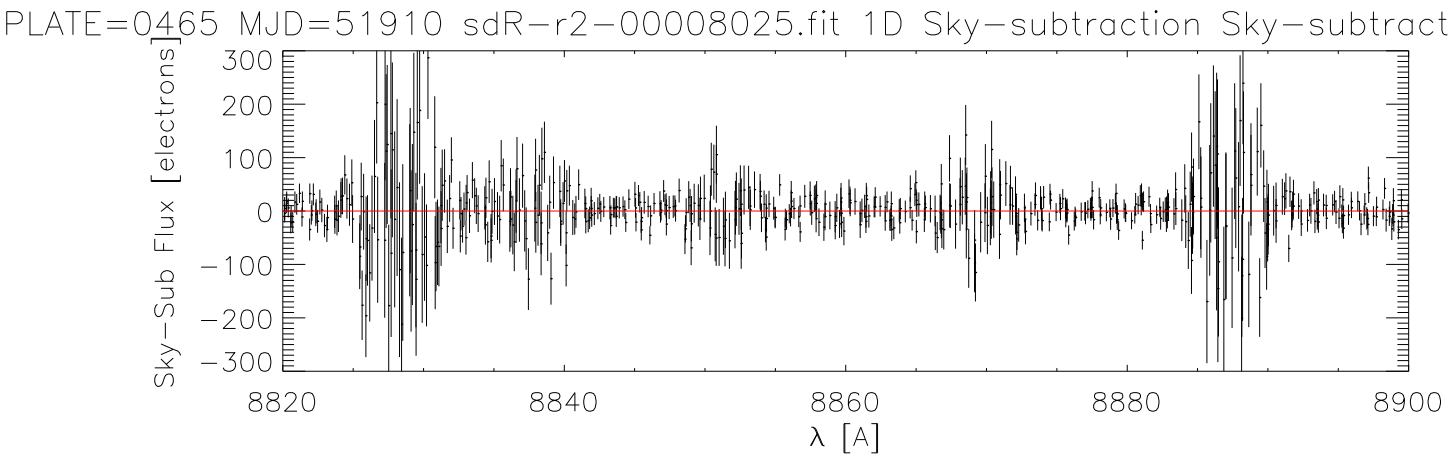

6300.3040
stdev 0.029
extra 0.48
6363.7760
stdev 0.030
extra 0.41
6553.6100
stdev 0.045
extra 0.15
6923.2100
stdev 0.026
extra 0.43
6949.0300
stdev 0.033
extra 0.09
7571.7500
stdev 0.038
extra 0.10
7794.1200
stdev 0.026
extra 0.20
7821.5100
stdev 0.023
extra 0.43
8399.1600
stdev 0.018
extra 0.11
8430.1700
stdev 0.017
extra 0.12
8885.8300
stdev 0.024
extra 0.08
8919.6100
stdev 0.022
extra 0.40
meas − pred, pix
mfhd2 15

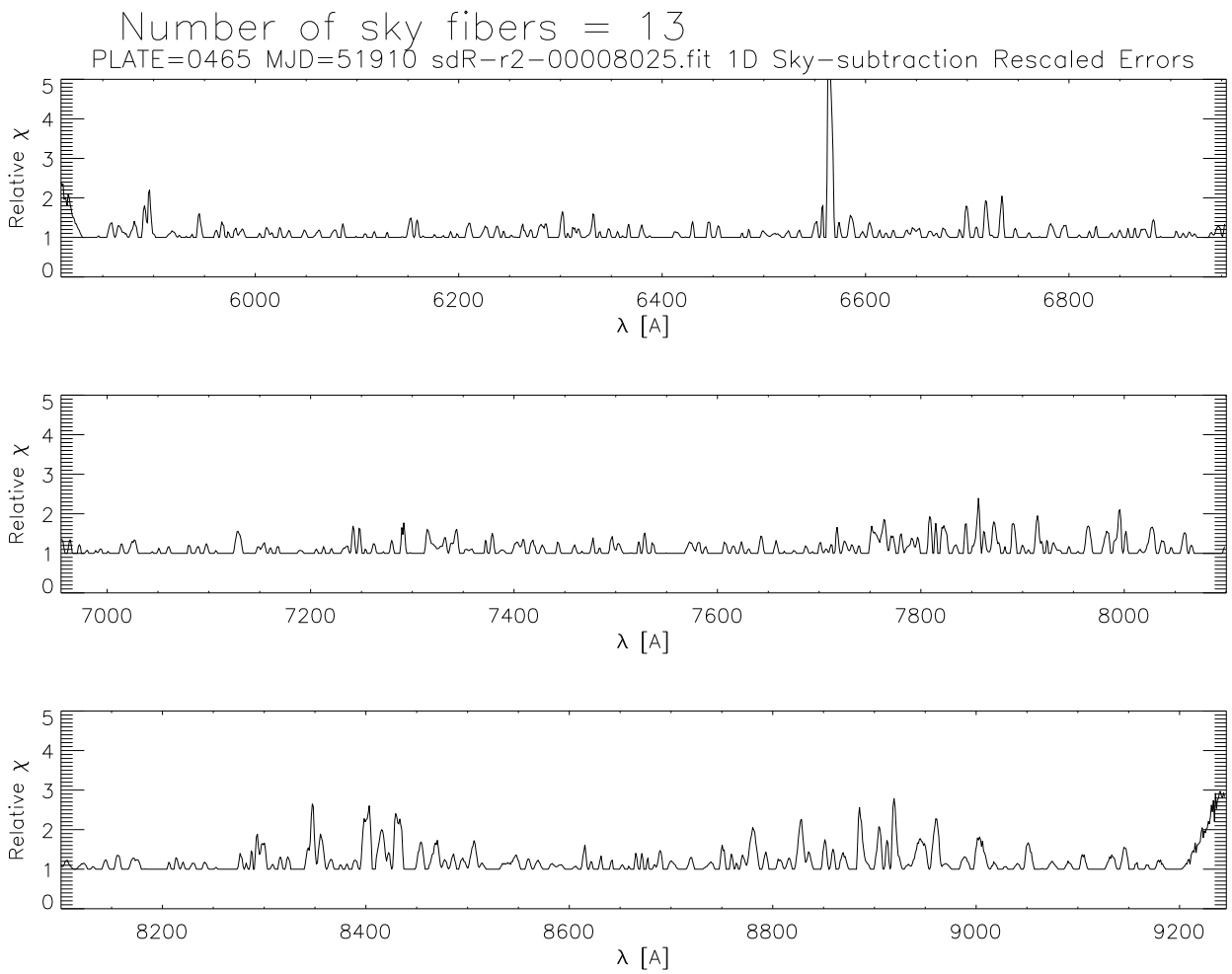

sky shift, pixels
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
−0.20
5000
6000
7000
8000
9000
10000

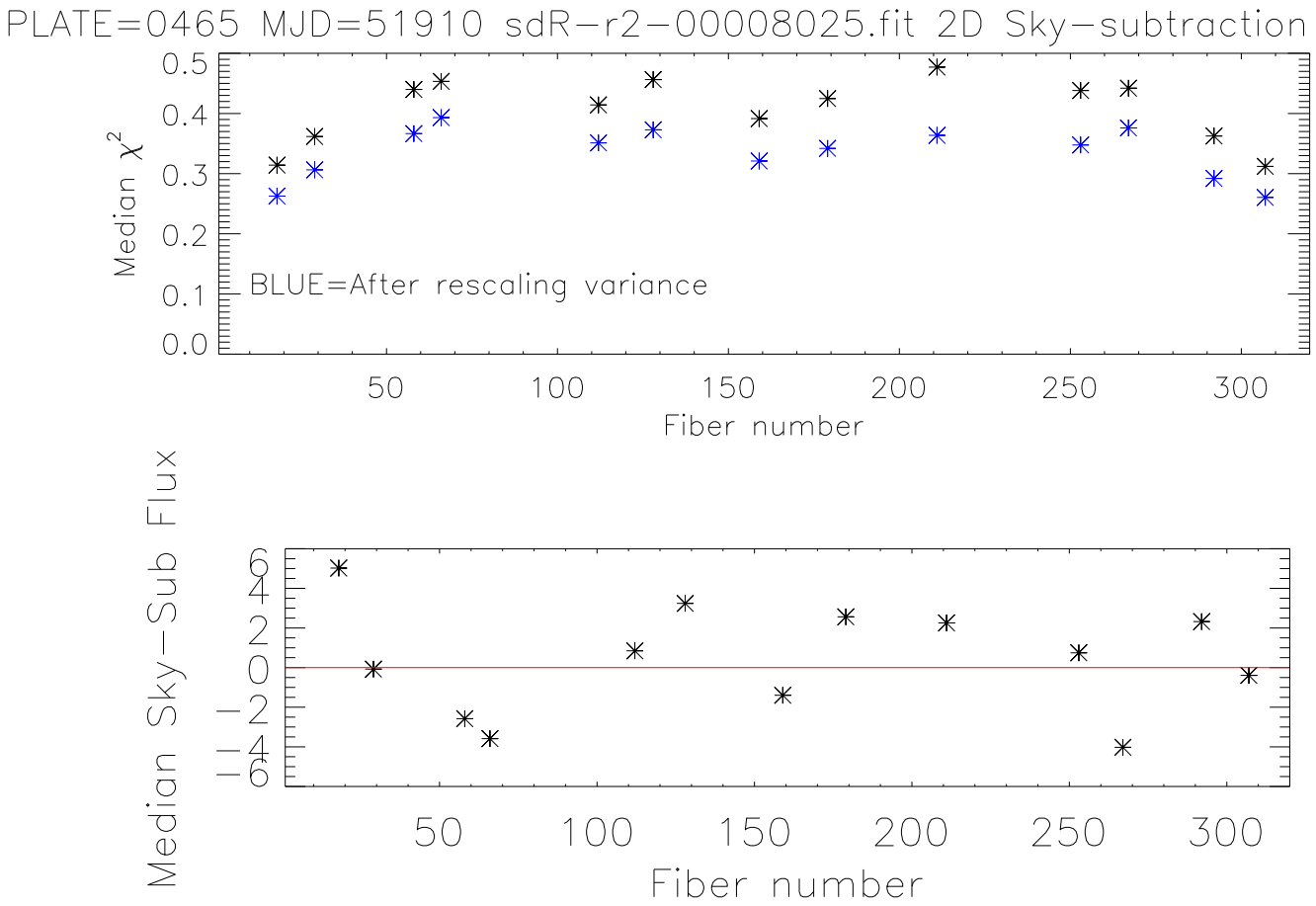

PLATE=0465 MJD=51910 Smooth superflat for sdR-r2-00008025.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.006
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

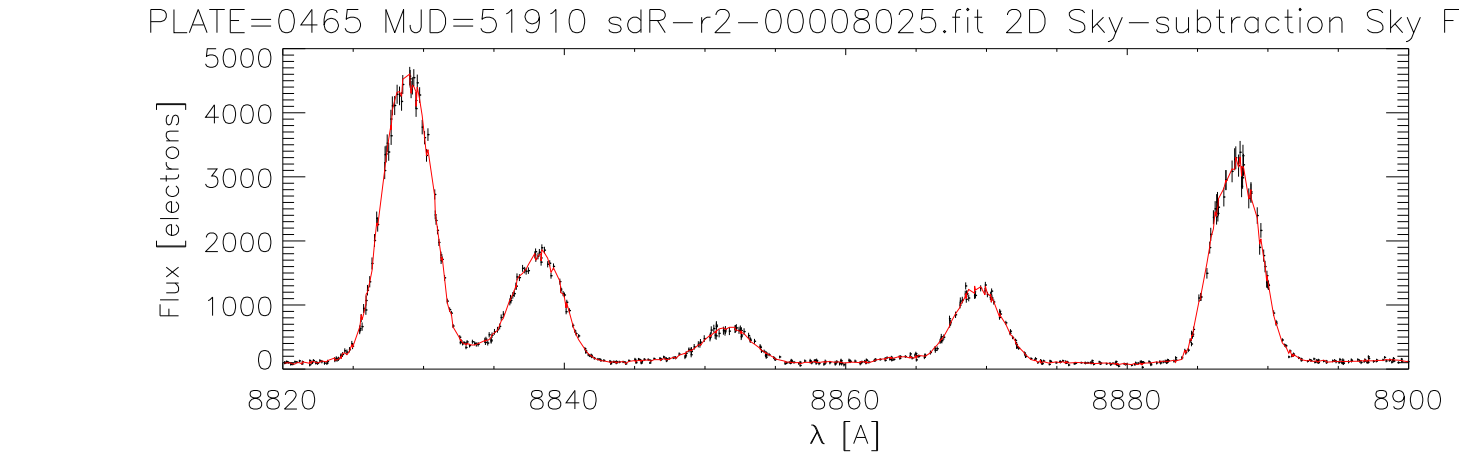

PLATE=0465 MJD=51910 sdR-r2-00008025.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-11
-10
-9
-8
-7
-6
50
100
150
200
250
300
Fiber number

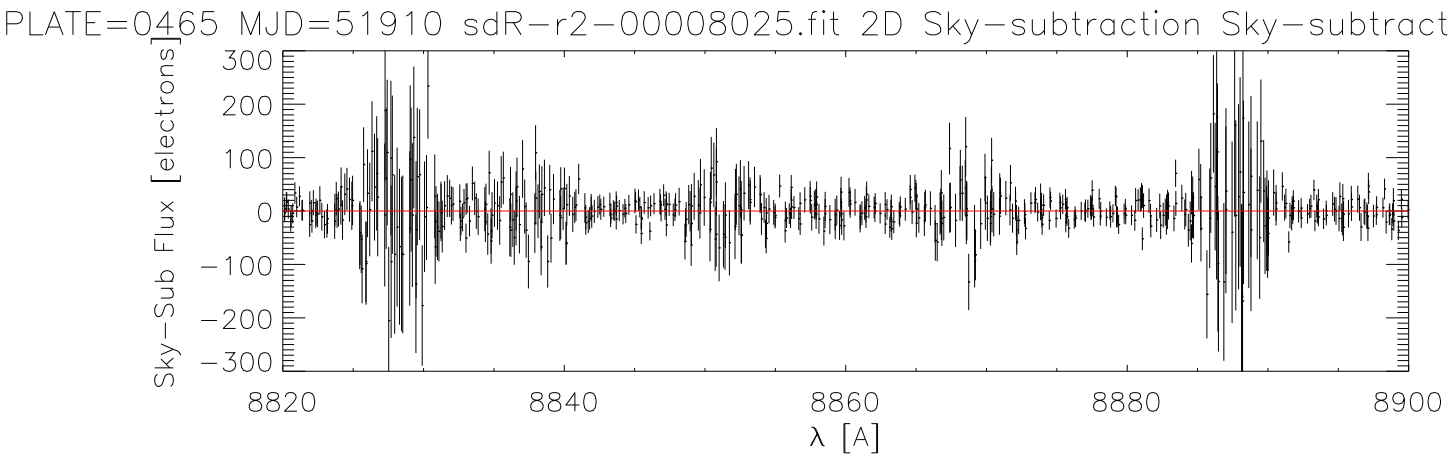

PLATE=0465 MJD=51910 sdR-r2-00008025.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

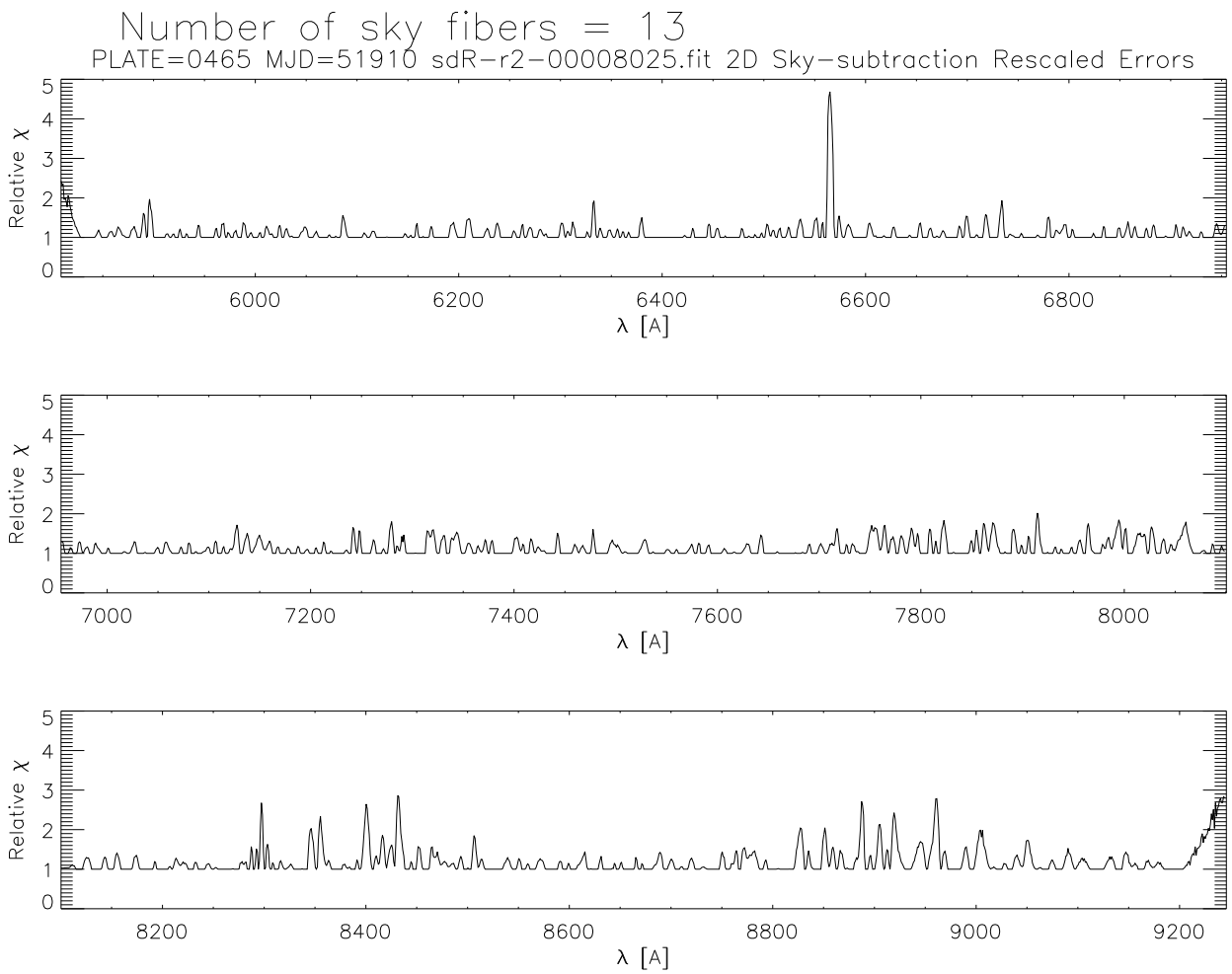

PLATE=0465 MJD=51910 sdR-r2-00008025.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

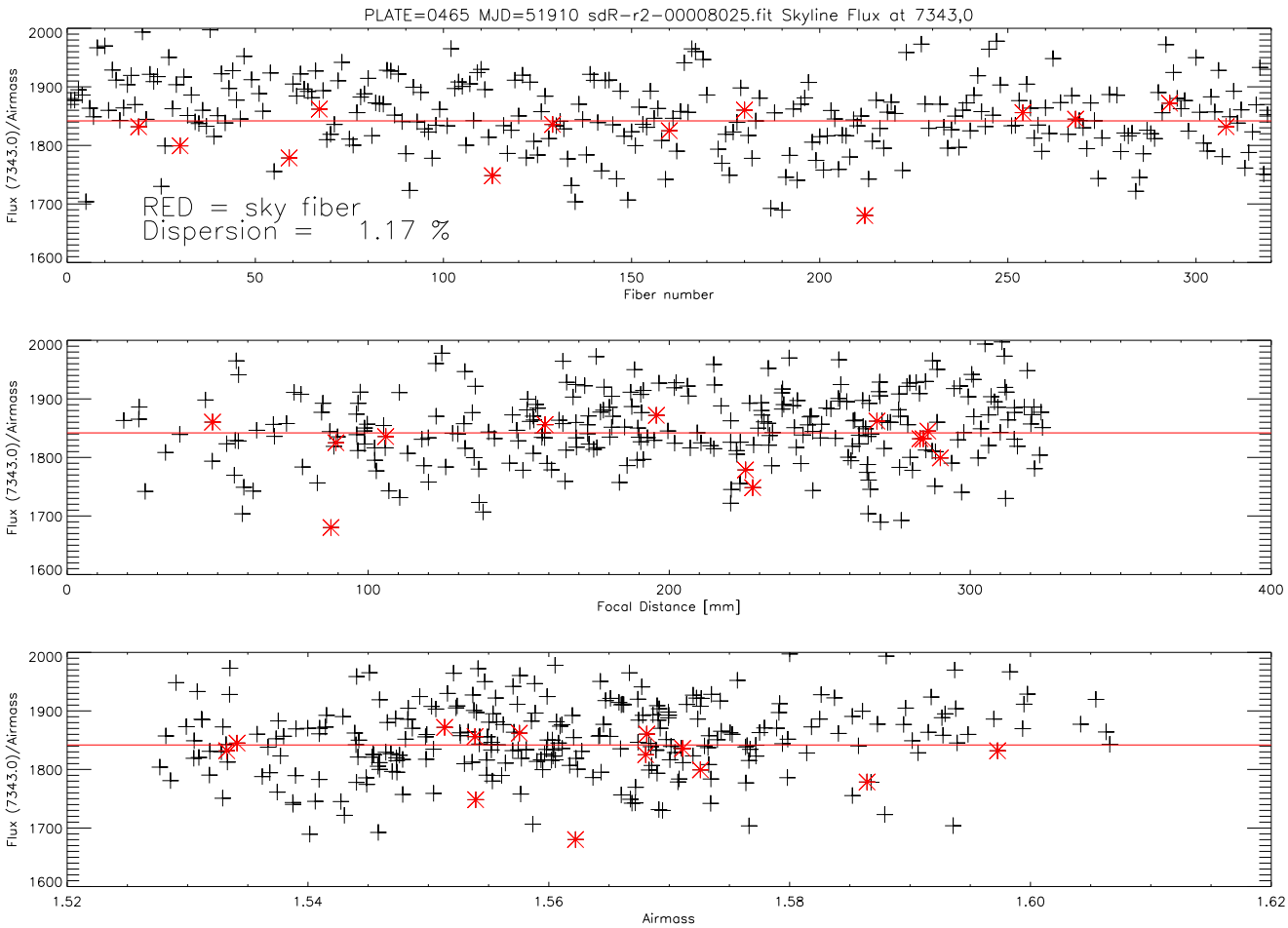

Number of sky fibers = 13
PLATE=0465 MJD=51910 sdR-r2-00008025.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

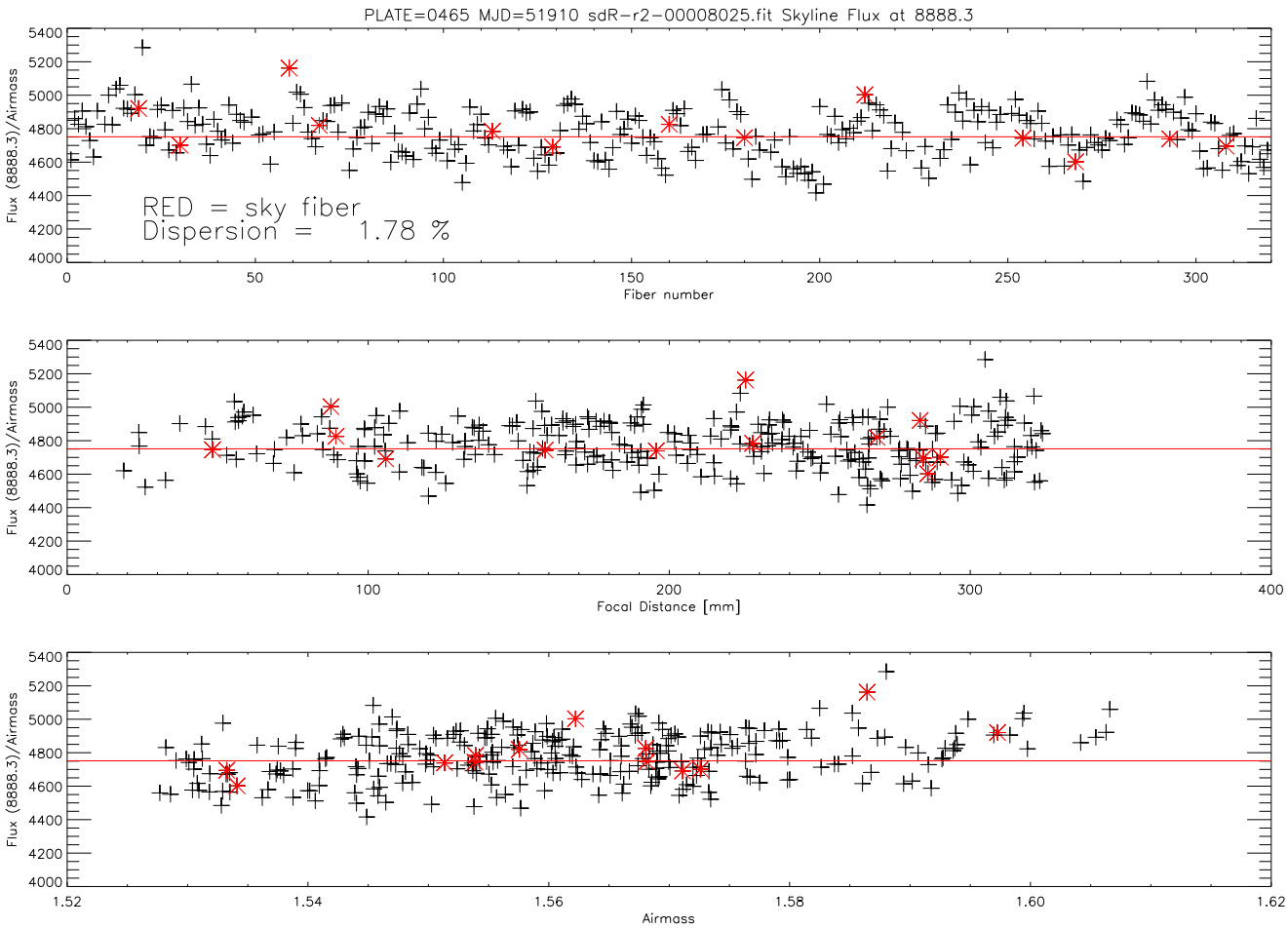

PLATE=0465 MJD=51910 sdR-r2-00008025.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

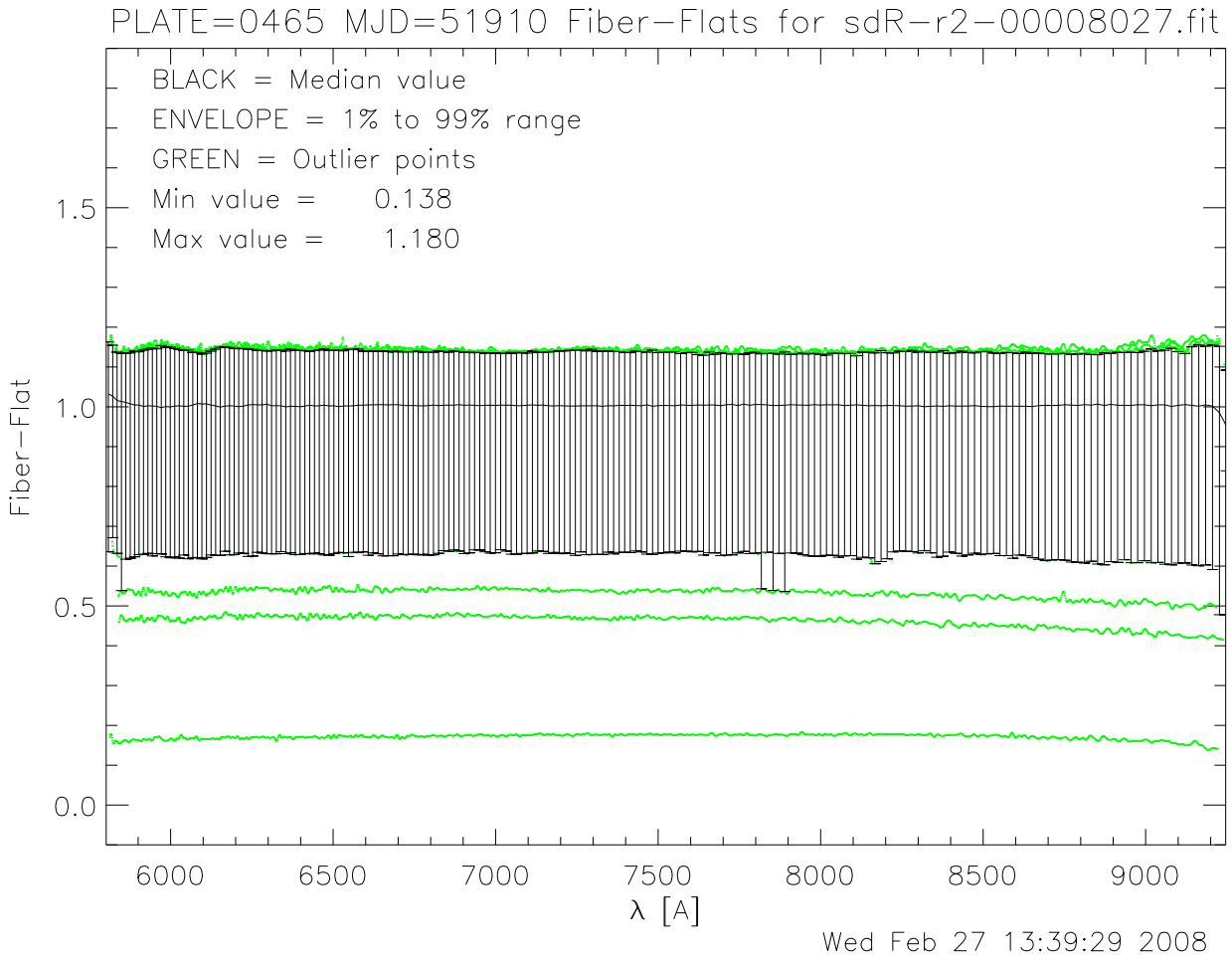

PLATE=0465 MJD=51910 sdR-r2-00008025.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=0465 MJD=51910 sdR-r2-00008025.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 13
PLATE=0465 MJD=51910 sdR-r2-00008025.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=0465 MJD=51910 sdR-r2-00008025.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.17 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=0465 MJD=51910 sdR-r2-00008025.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.78 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass


PLATE=0465 MJD=51910 Fiber−Flats for sdR−r2−00008027.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.138
Max value = 1.180
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
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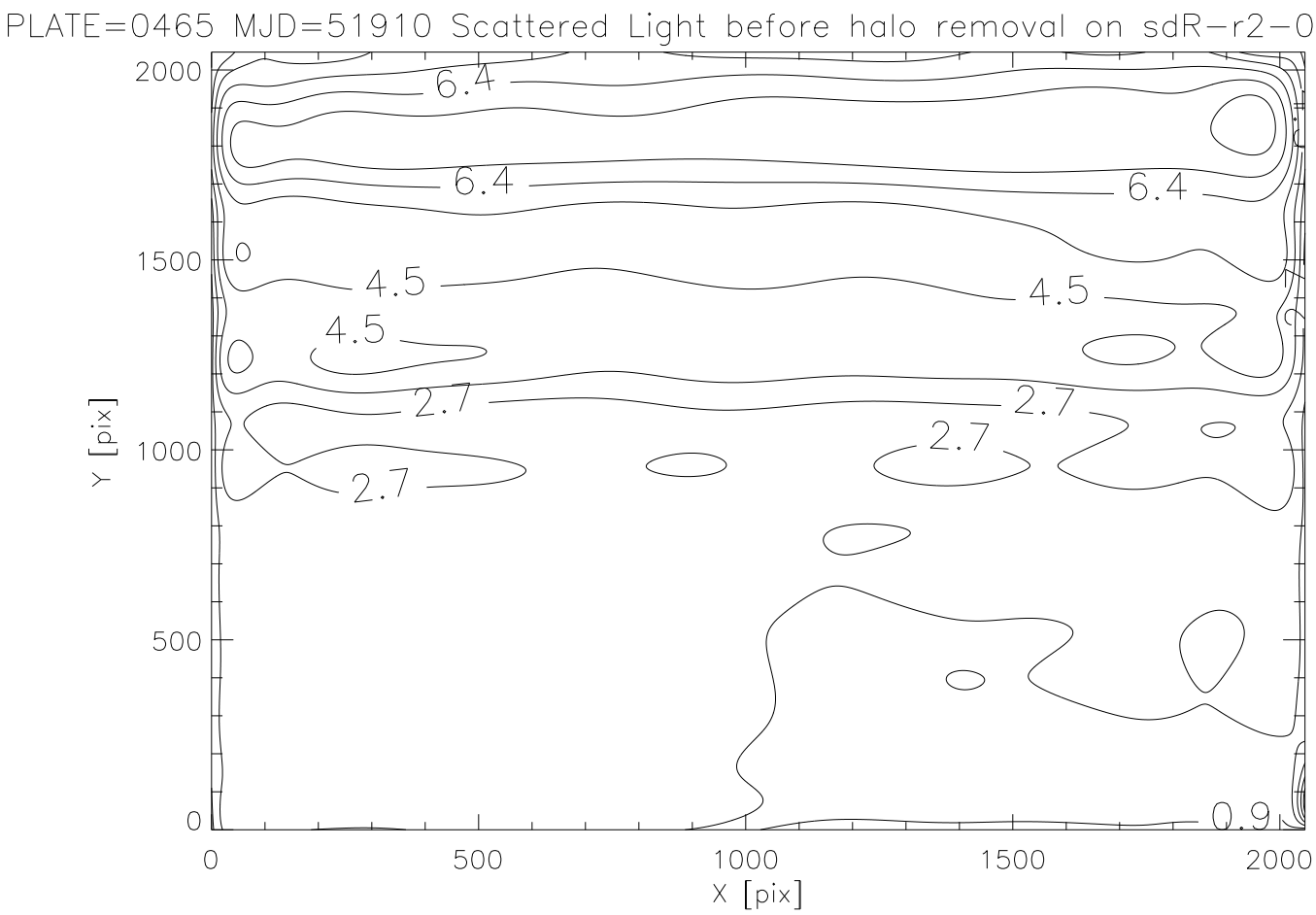
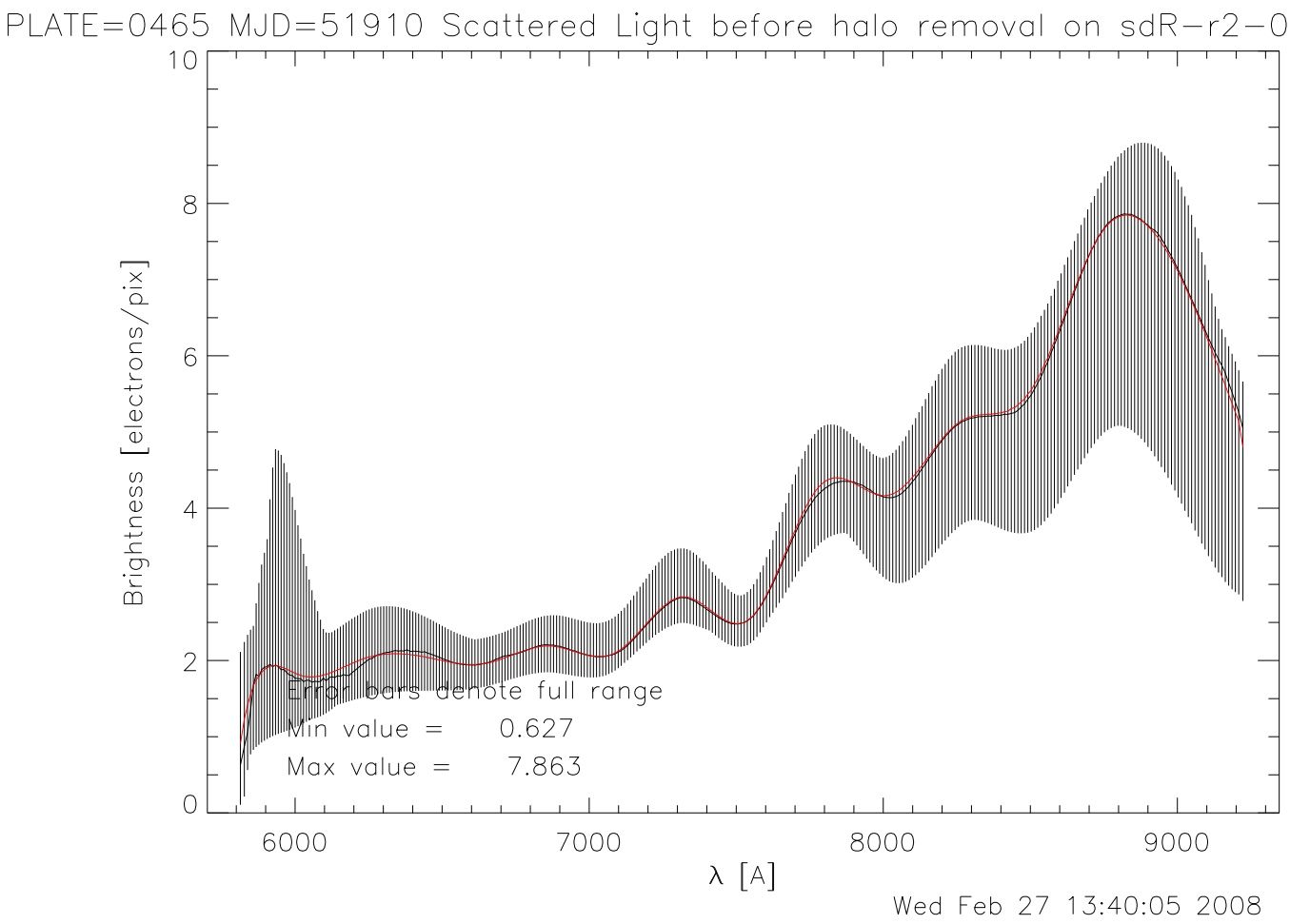
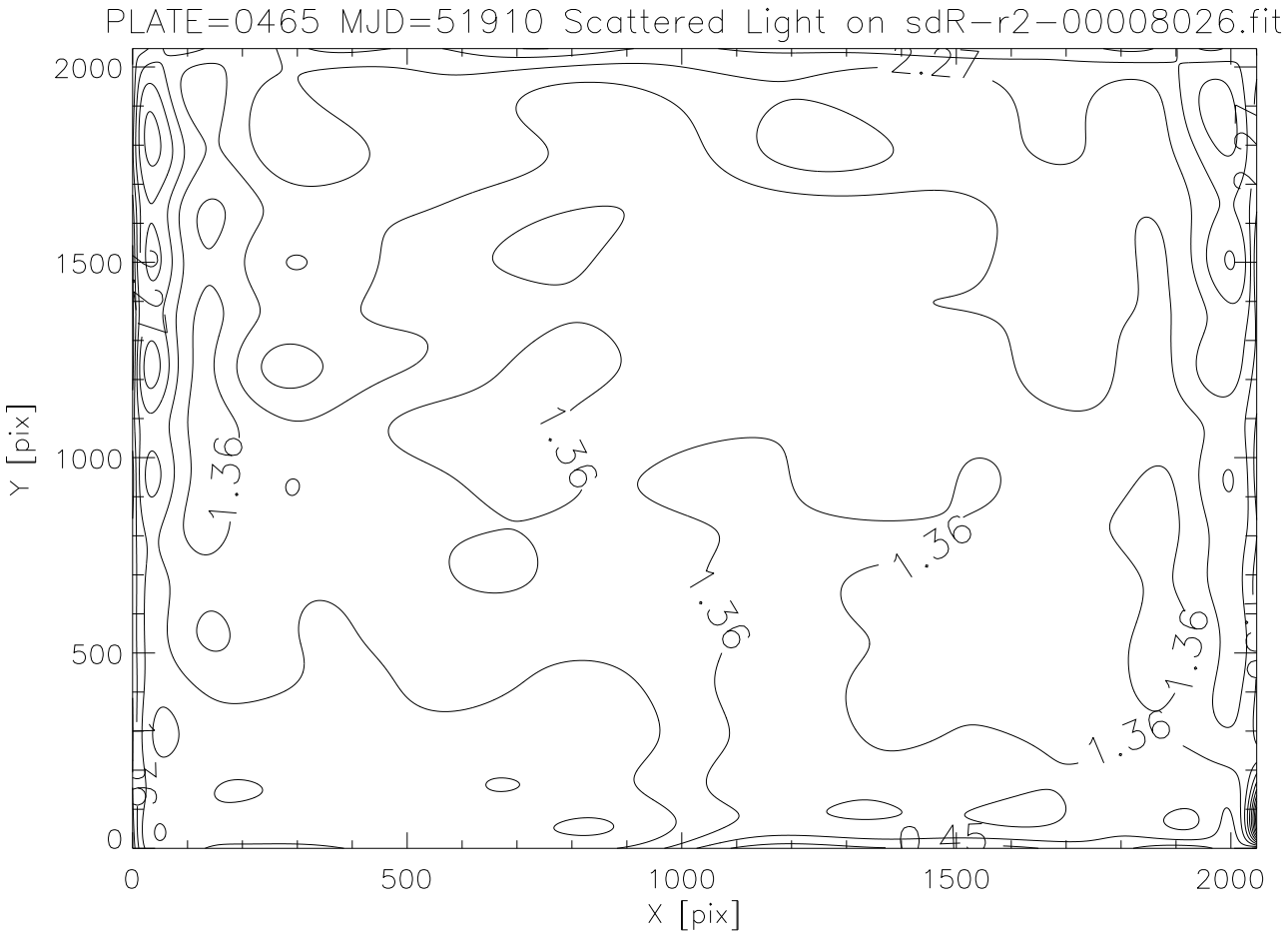
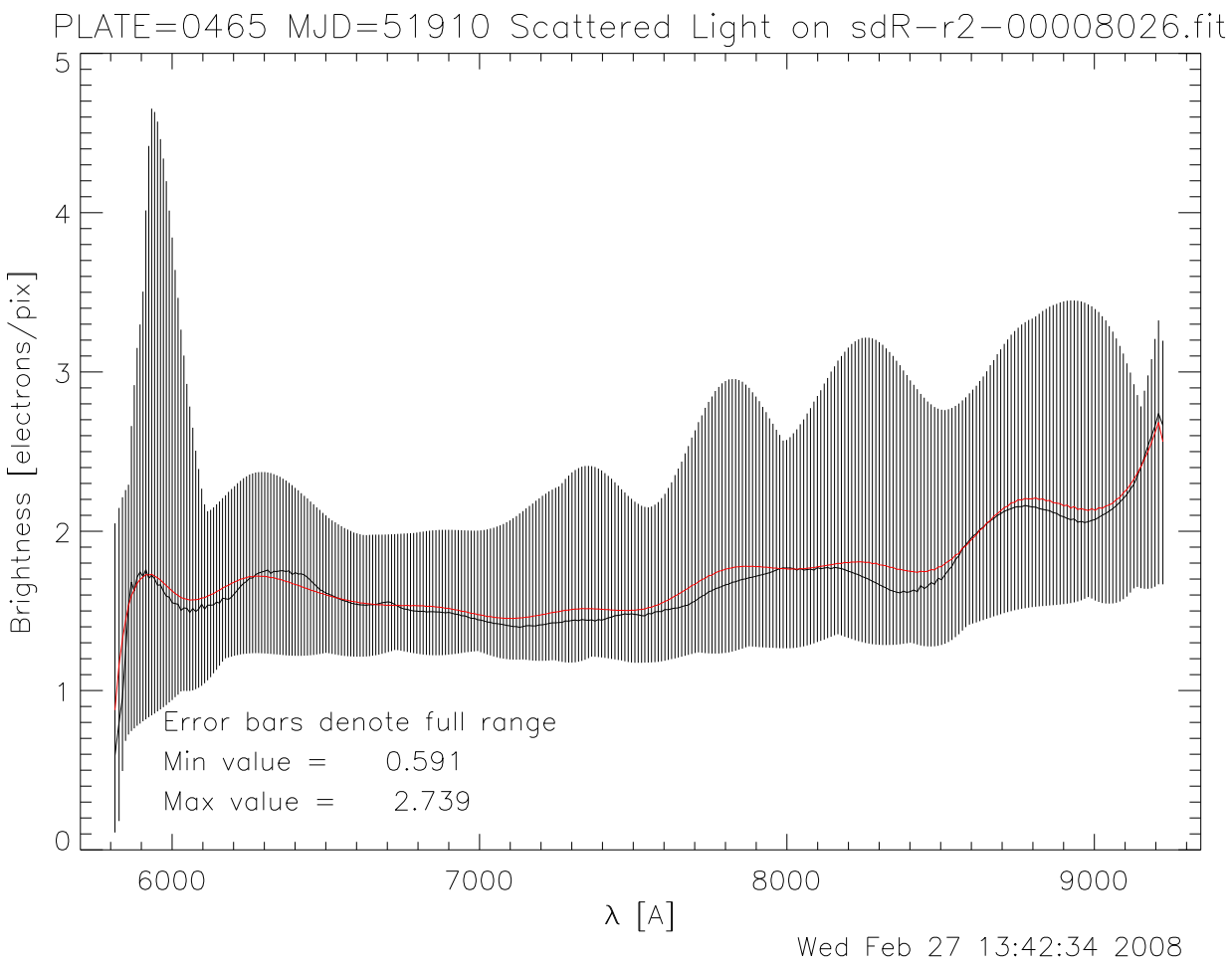
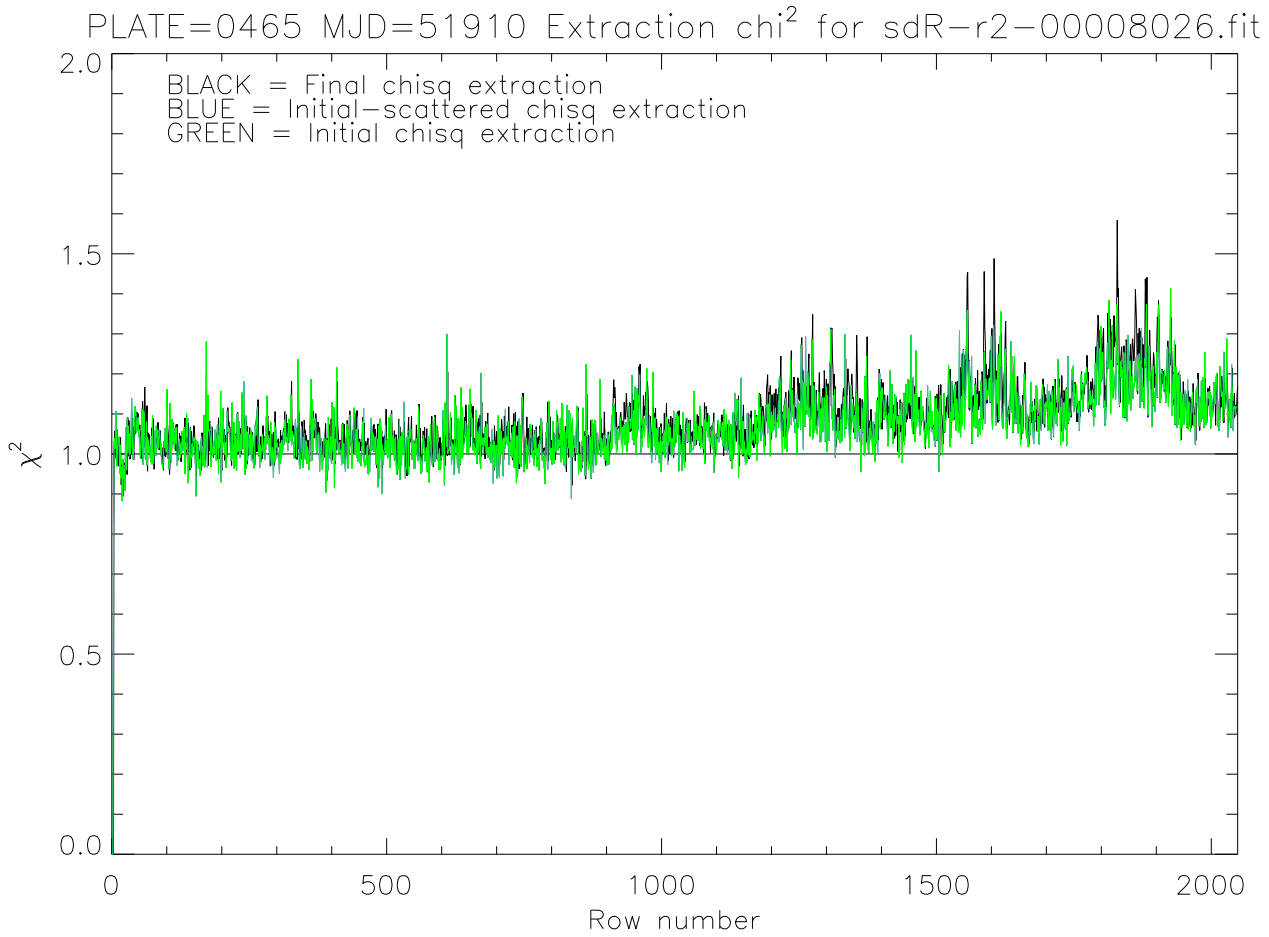
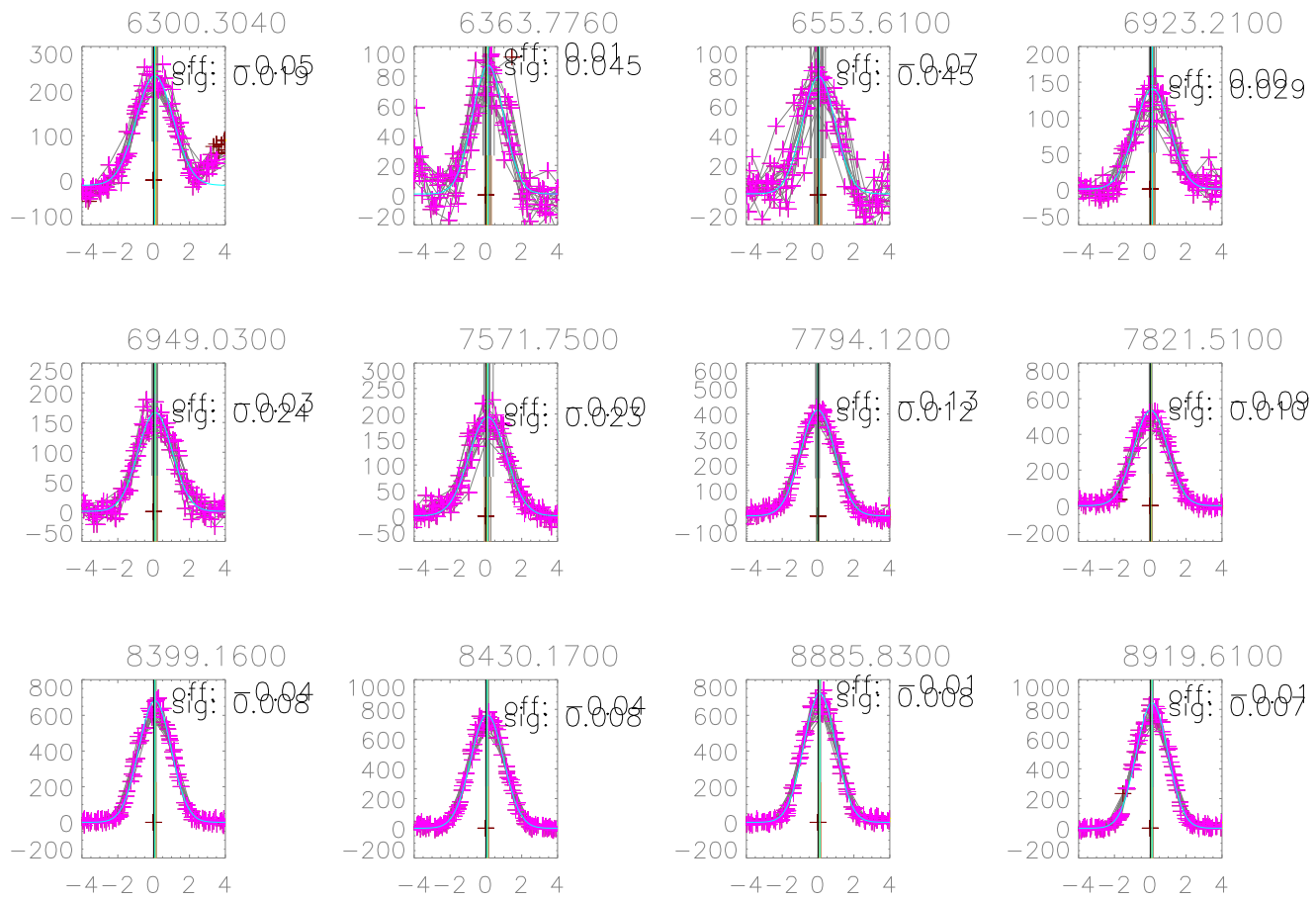

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r2-00008026.fi
6.4
6.4
6.4
0
4.5
4.5
4.5
2.7
2.7
2.7
2.7
0.9
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

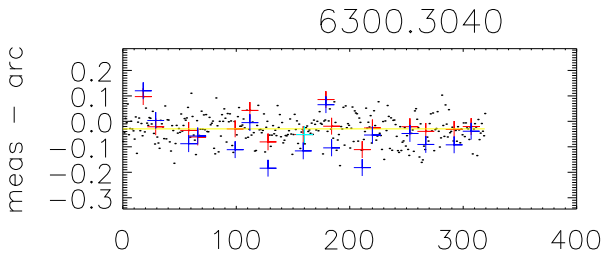

PLATE=0465 MJD=51910 Scattered Light before halo removal on sdR-r2-00008026.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.627
Max value = 7.863
Wed Feb 27 13:40:05 2008

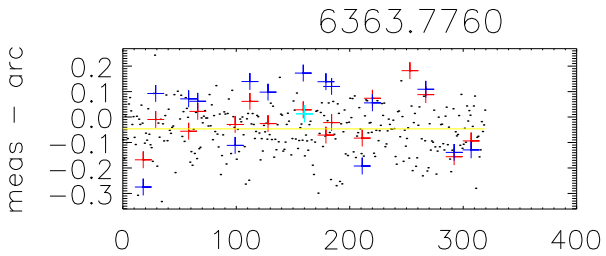

PLATE=0465 MJD=51910 Scattered Light on sdR-r2-00008026.fit
2.27
1.36
0.45
0
Y [pix]
X [pix]
0
500
1000
1500
2000

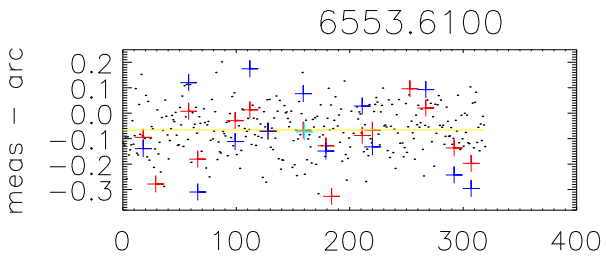

PLATE=0465 MJD=51910 Scattered Light on sdR-r2-00008026.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.591
Max value = 2.739
Wed Feb 27 13:42:34 2008

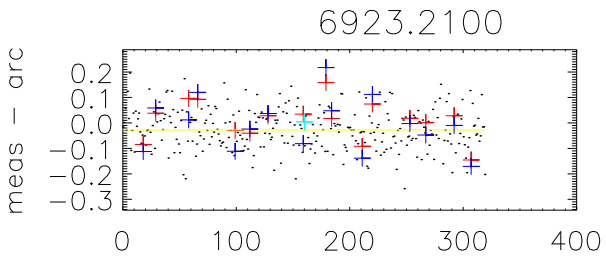

PLATE=0465 MJD=51910 Extraction chi^2 for sdR−r2−00008026.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

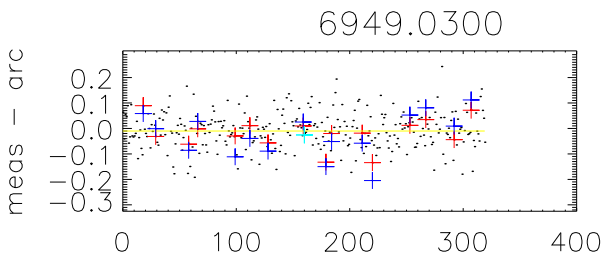

6300.3040
off: −0.05
sig: 0.019
6363.7760
off: 0.01
sig: 0.045
6553.6100
off: −0.07
sig: 0.045
6923.2100
off: 0.00
sig: 0.029
6949.0300
off: −0.03
sig: 0.024
7571.7500
off: −0.00
sig: 0.023
7794.1200
off: −0.13
sig: 0.012
7821.5100
off: −0.09
sig: 0.010
8399.1600
off: −0.04
sig: 0.008
8430.1700
off: −0.04
sig: 0.008
8885.8300
off: −0.01
sig: 0.008
8919.6100
off: −0.01
sig: 0.007

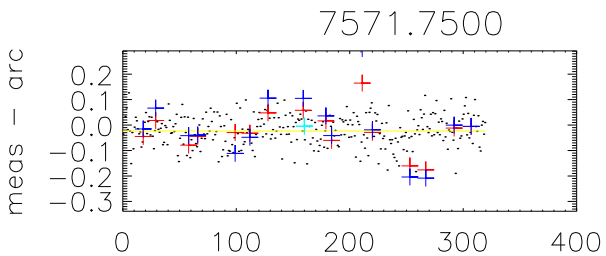

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

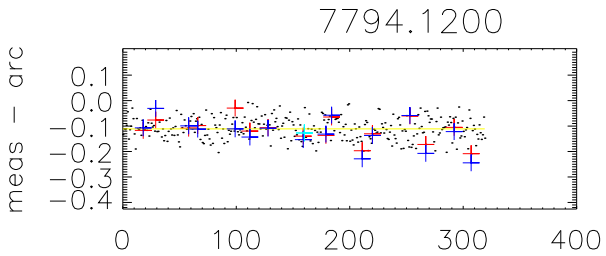

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

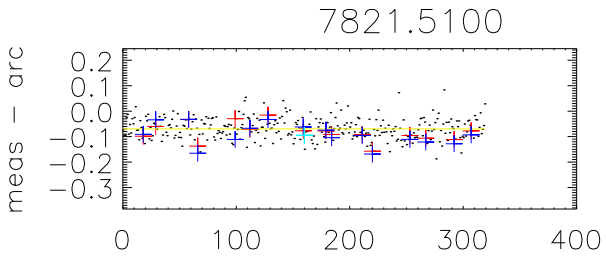

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

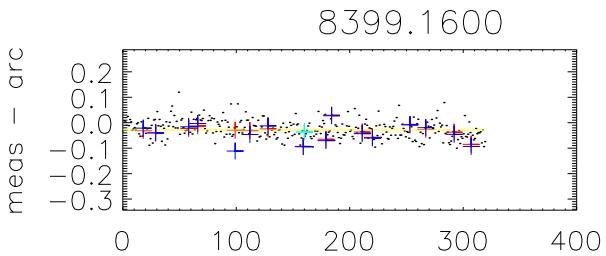

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

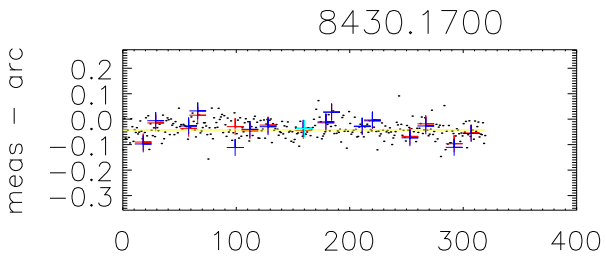

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

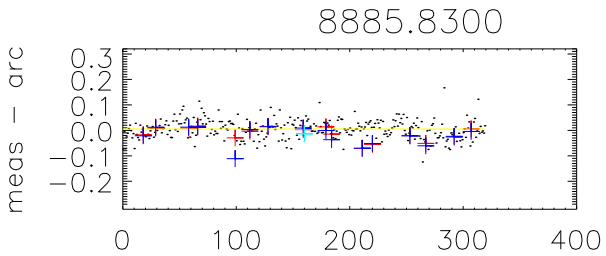

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

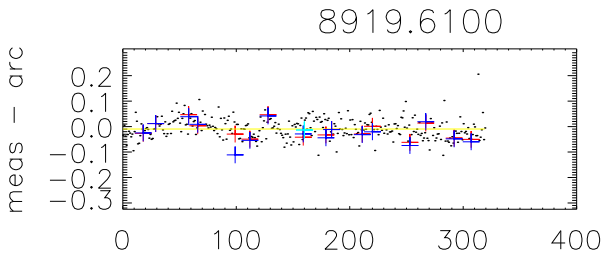

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

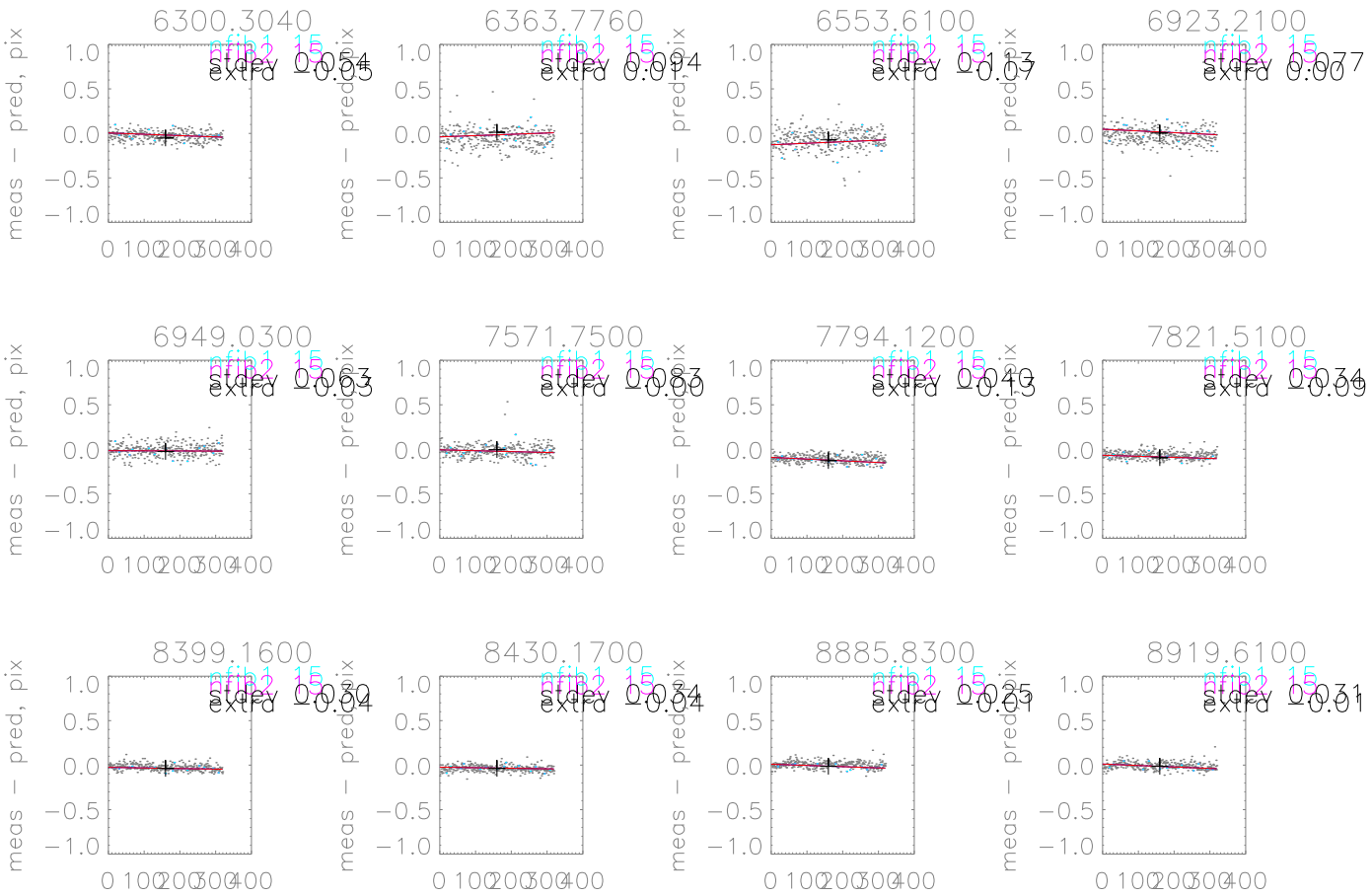

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

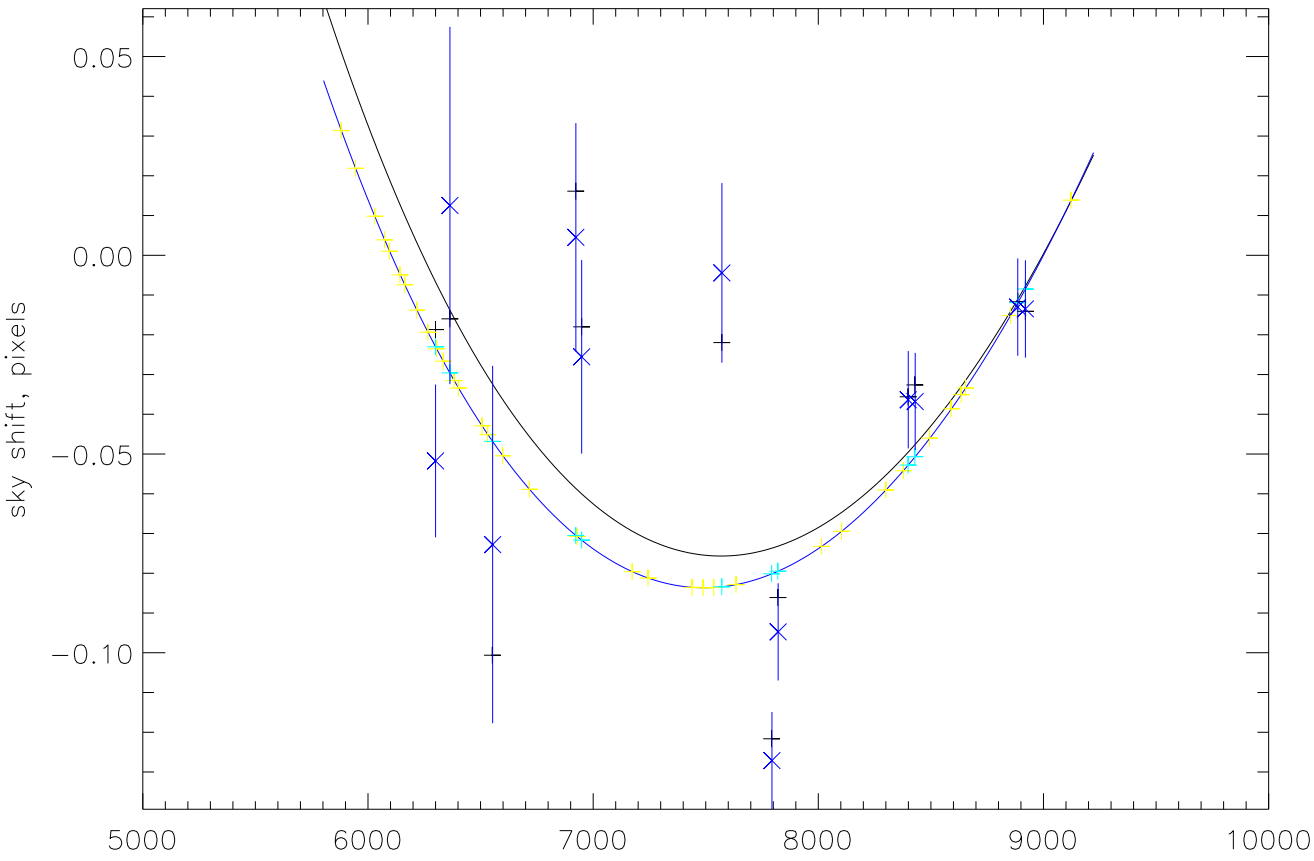

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

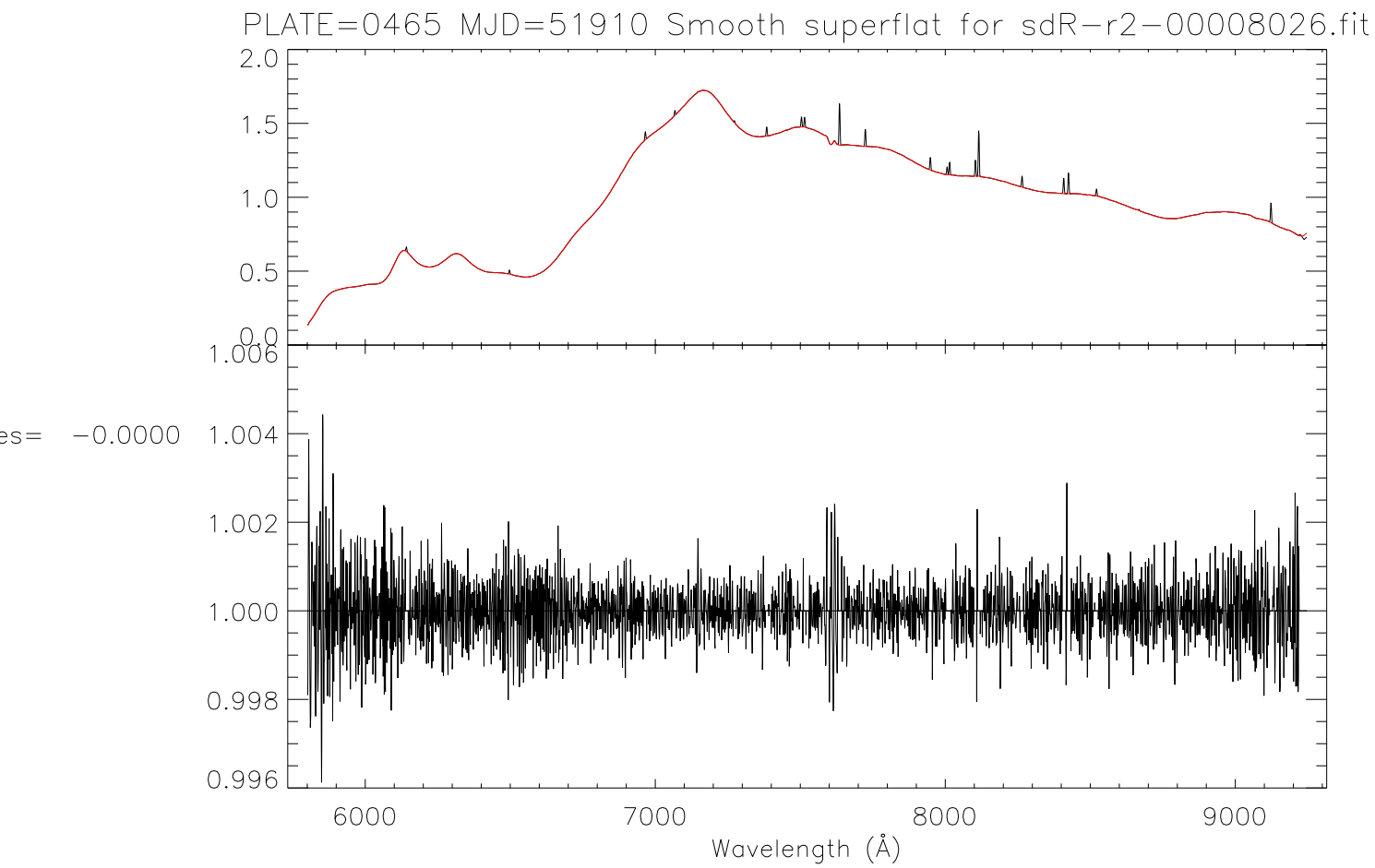

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

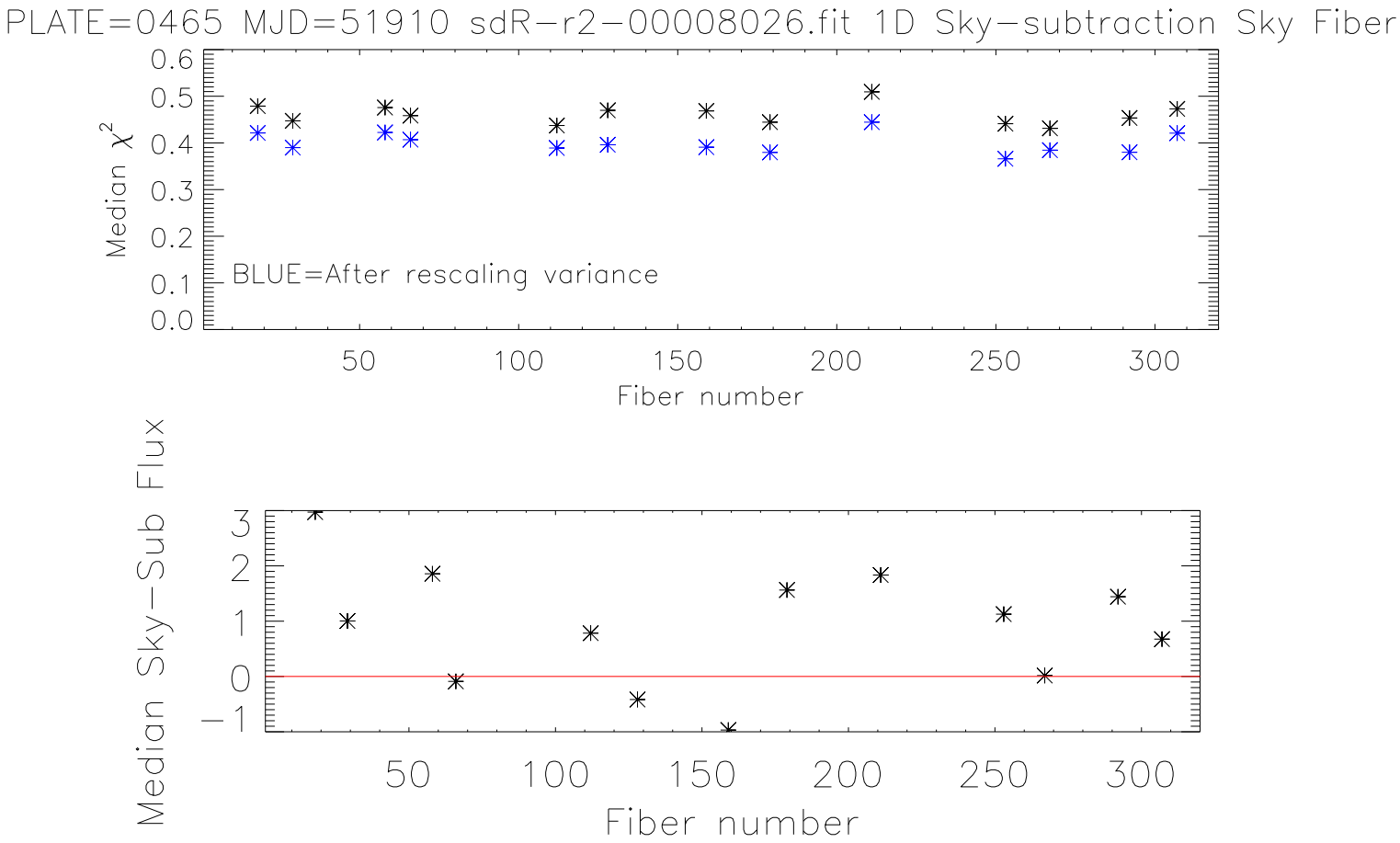

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

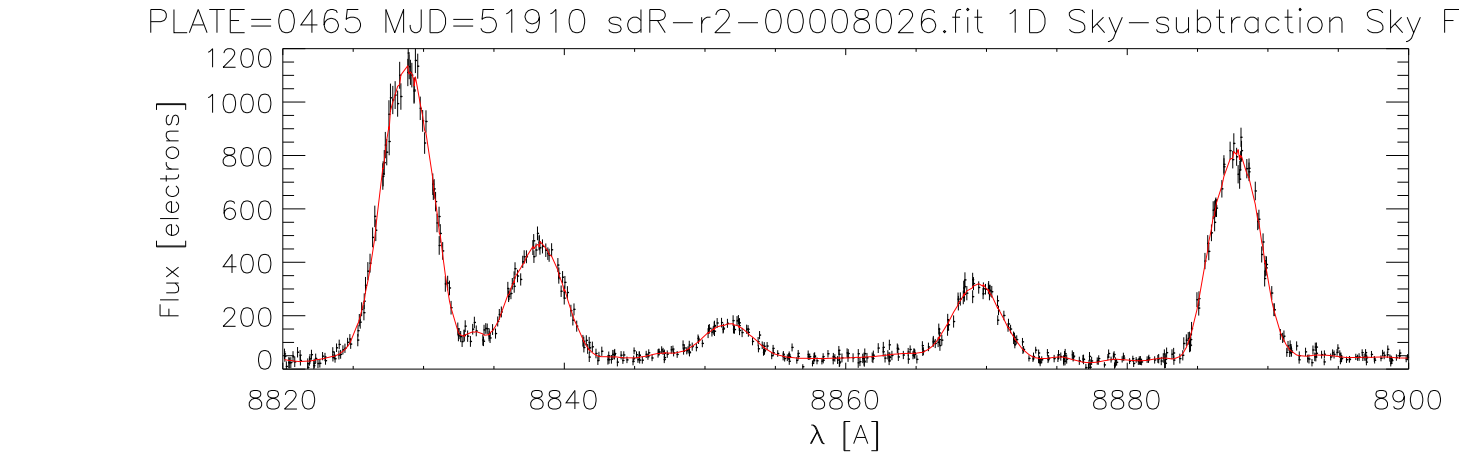

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

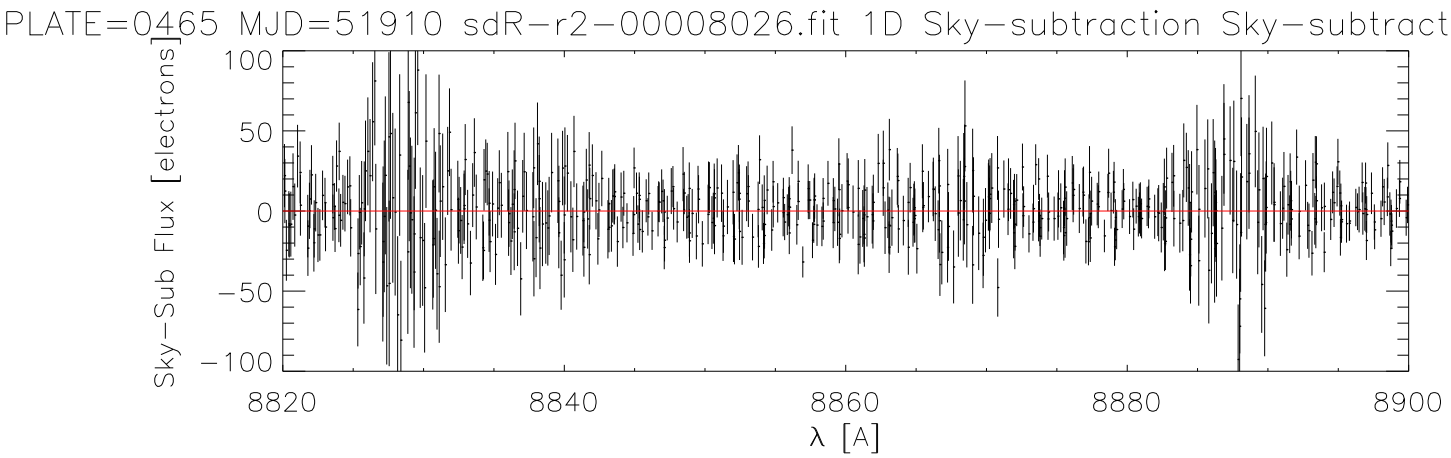

6300.3040
stdev 0.054
extra 0.05
6363.7760
stdev 0.094
extra 0.01
6553.6100
stdev 0.113
extra 0.07
6923.2100
stdev 0.077
extra 0.00
6949.0300
stdev 0.063
extra 0.03
7571.7500
stdev 0.083
extra 0.00
7794.1200
stdev 0.040
extra 0.13
7821.5100
stdev 0.034
extra 0.09
8399.1600
stdev 0.030
extra 0.04
8430.1700
stdev 0.034
extra 0.04
8885.8300
stdev 0.025
extra 0.01
8919.6100
stdev 0.031
extra 0.01
meas − pred, pix
mfh32 15

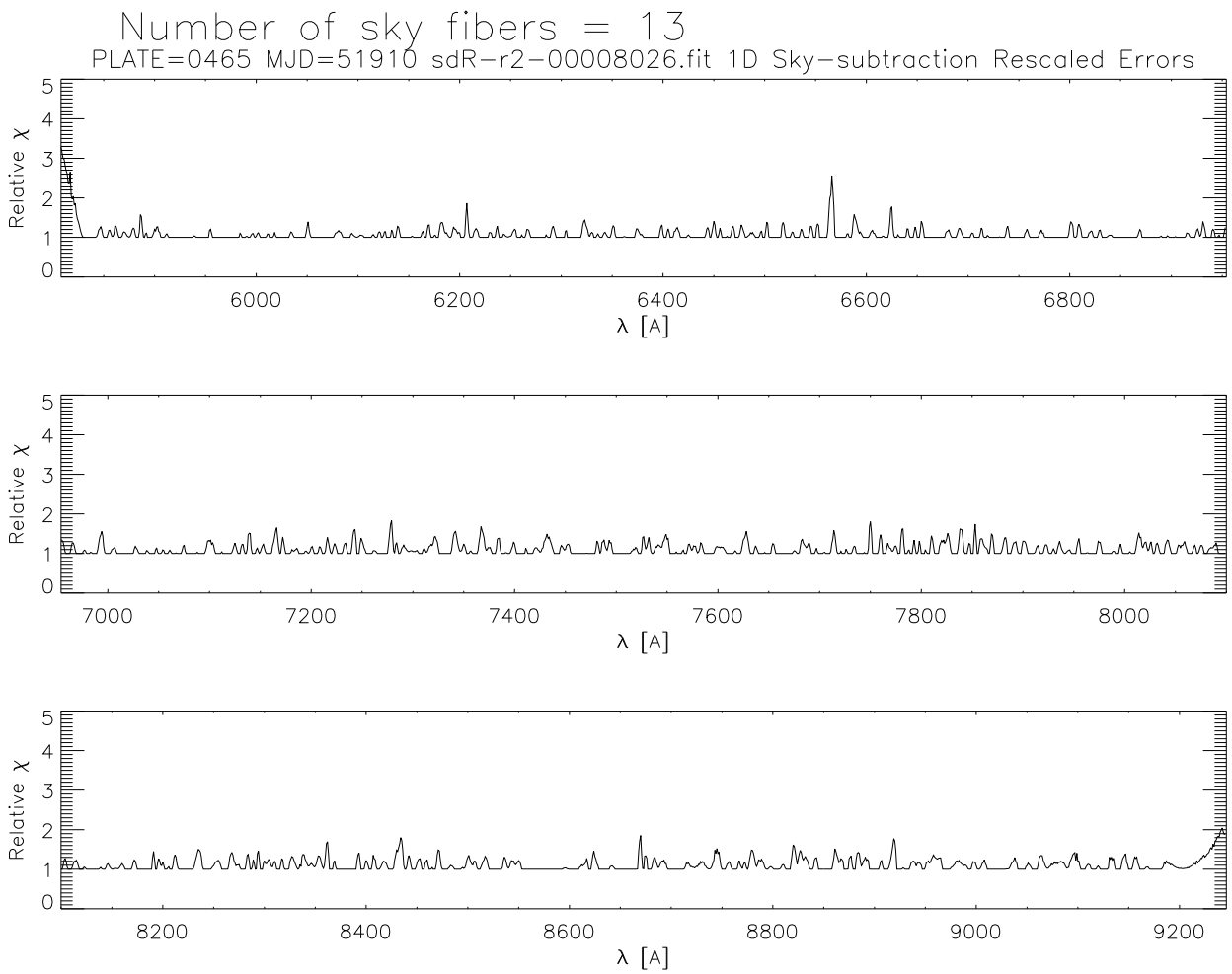

0.05
0.00
−0.05
−0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

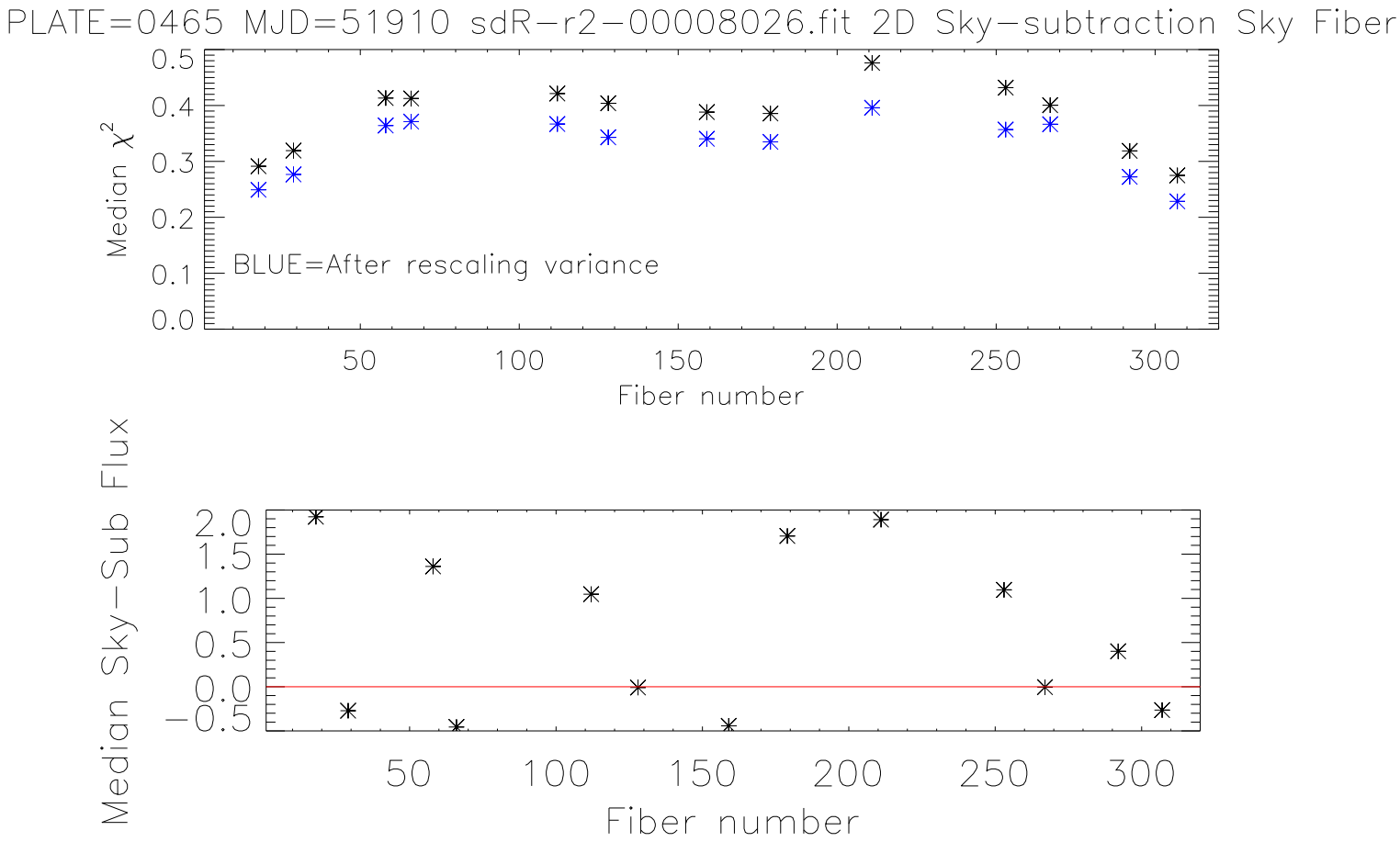

PLATE=0465 MJD=51910 Smooth superflat for sdR-r2-00008026.fit
2.0
1.5
1.0
0.5
0.0
1.006
es= −0.0000 1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

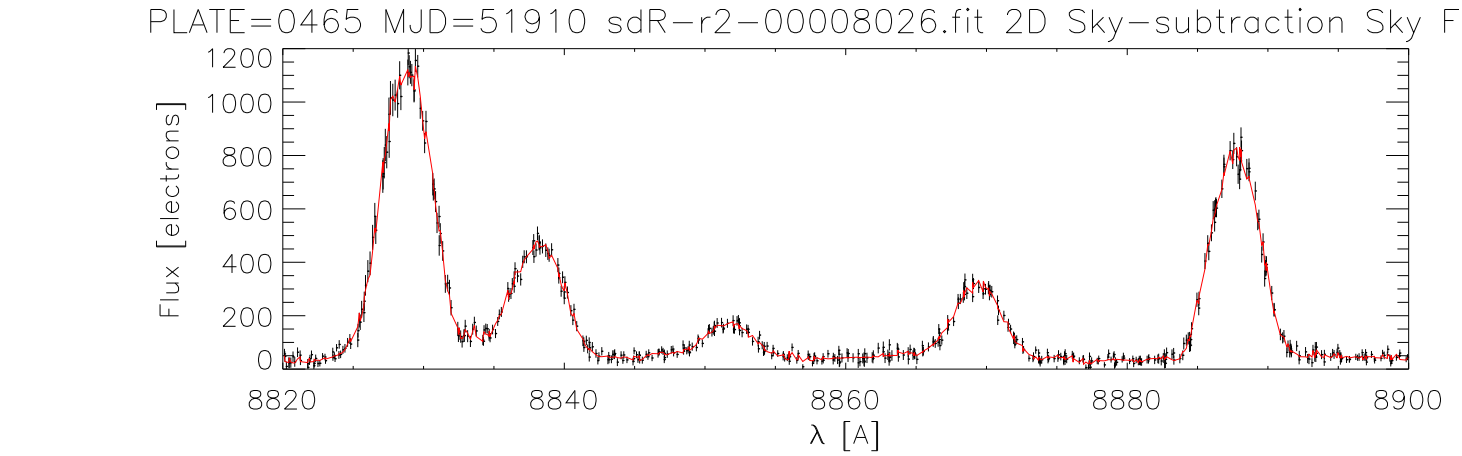

PLATE=0465 MJD=51910 sdR-r2-00008026.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

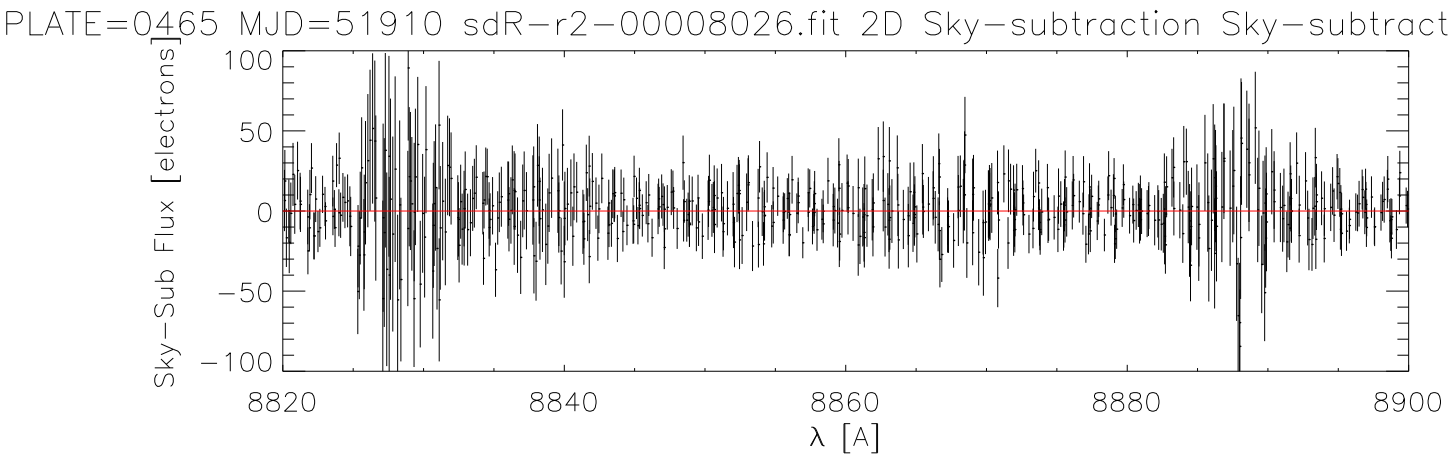

PLATE=0465 MJD=51910 sdR-r2-00008026.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
8820
8840
8860
8880
8900
λ [A]

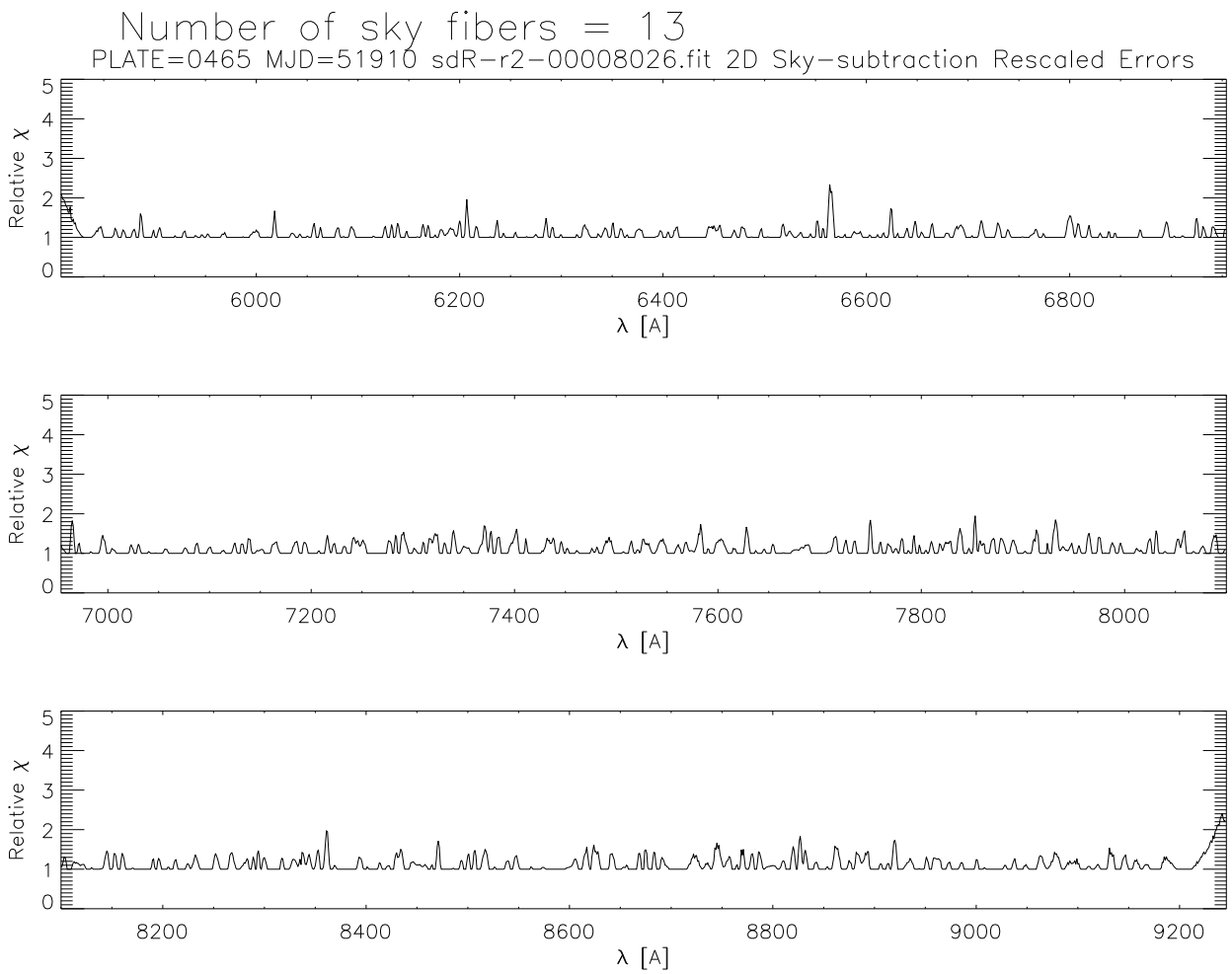

PLATE=0465 MJD=51910 sdR-r2-00008026.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

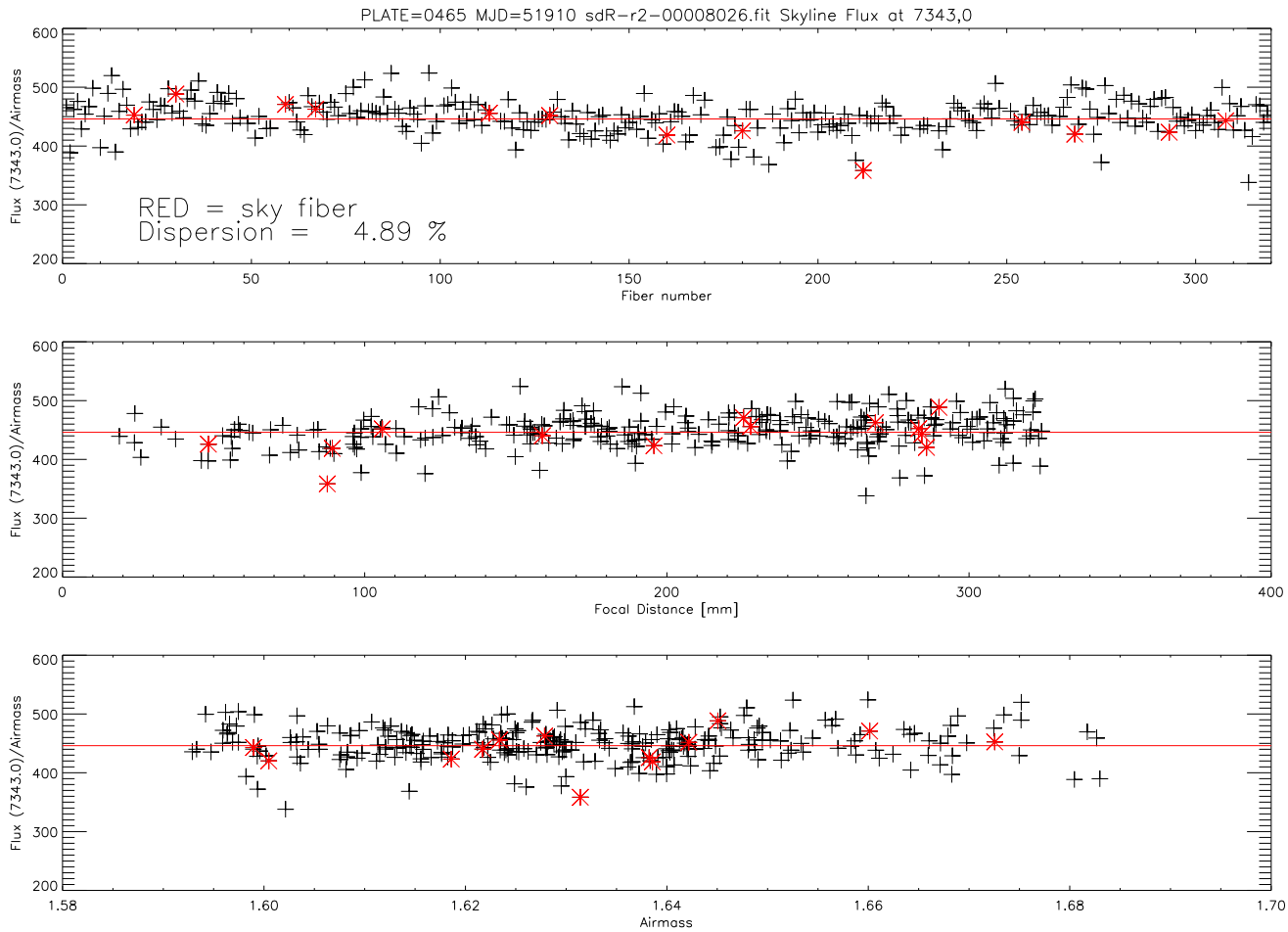

Number of sky fibers = 13
PLATE=0465 MJD=51910 sdR-r2-00008026.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

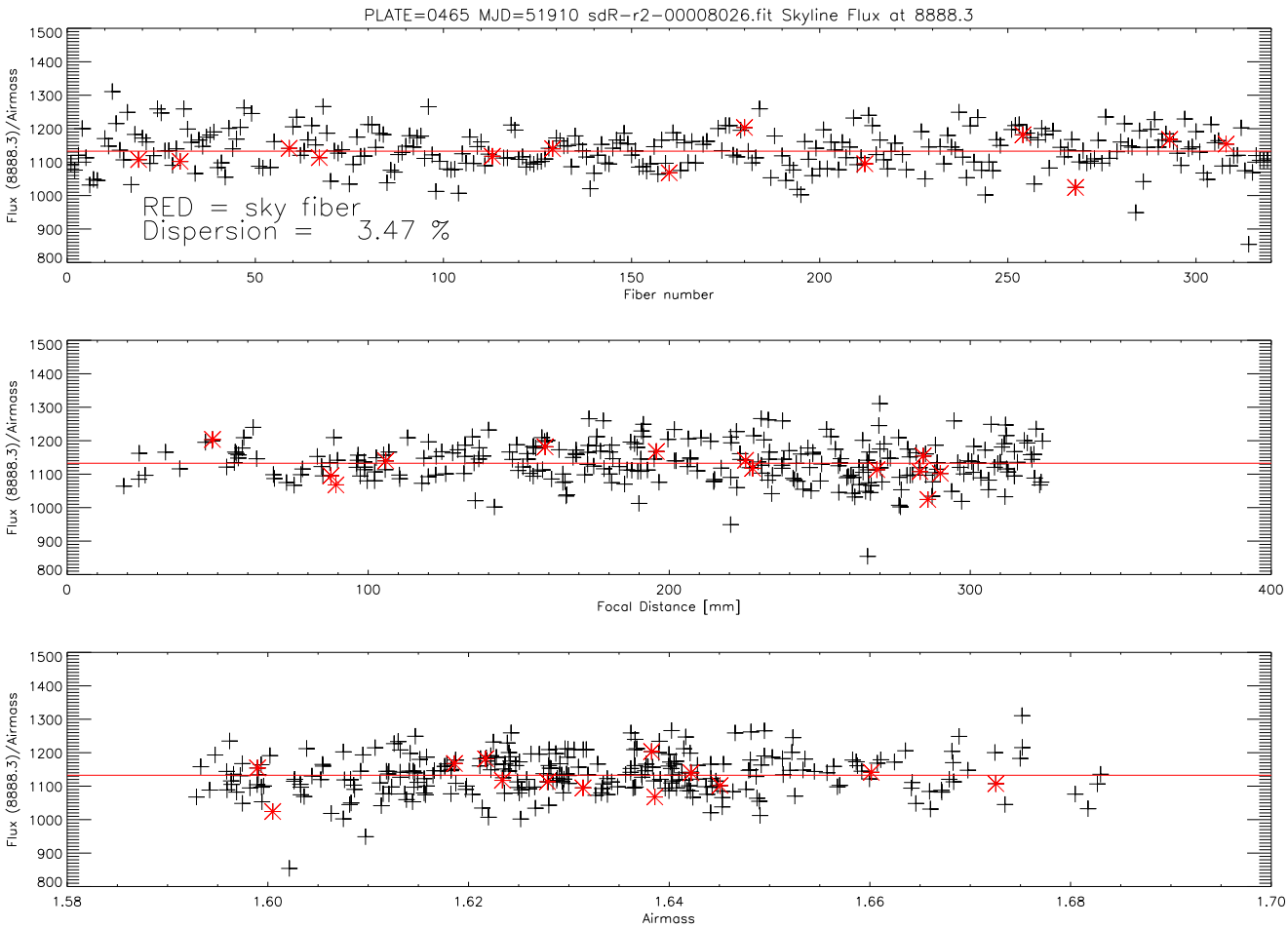

PLATE=0465 MJD=51910 sdR-r2-00008026.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=0465 MJD=51910 sdR-r2-00008026.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1200
1000
800
600
400
200
0
8820
8840
8860
8880
8900
λ [A]


PLATE=0465 MJD=51910 sdR-r2-00008026.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 = 13
PLATE=0465 MJD=51910 sdR-r2-00008026.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=0465 MJD=51910 sdR-r2-00008026.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.89 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=0465 MJD=51910 sdR-r2-00008026.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.47 %
Fiber number
Focal Distance [mm]
Airmass