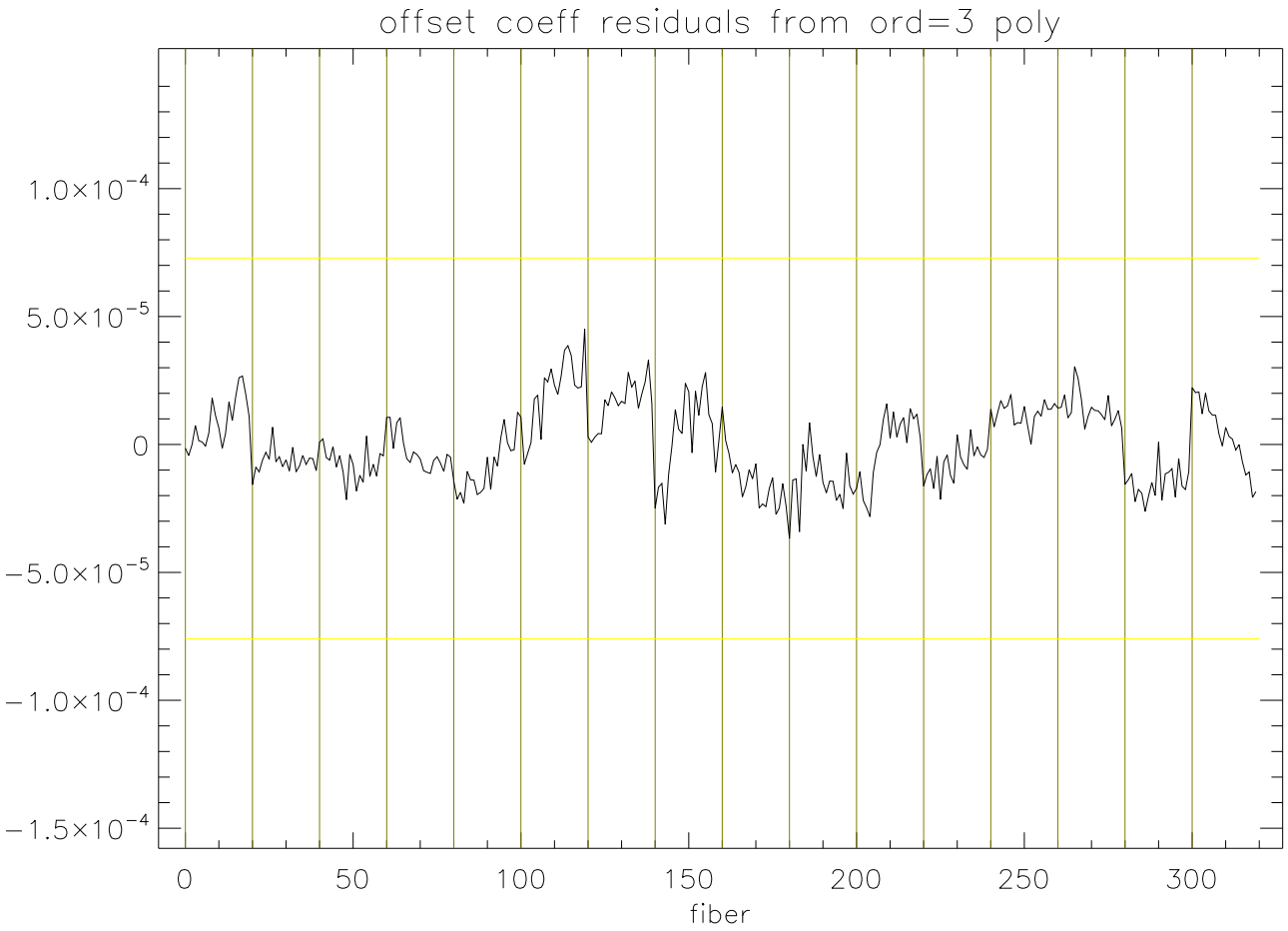
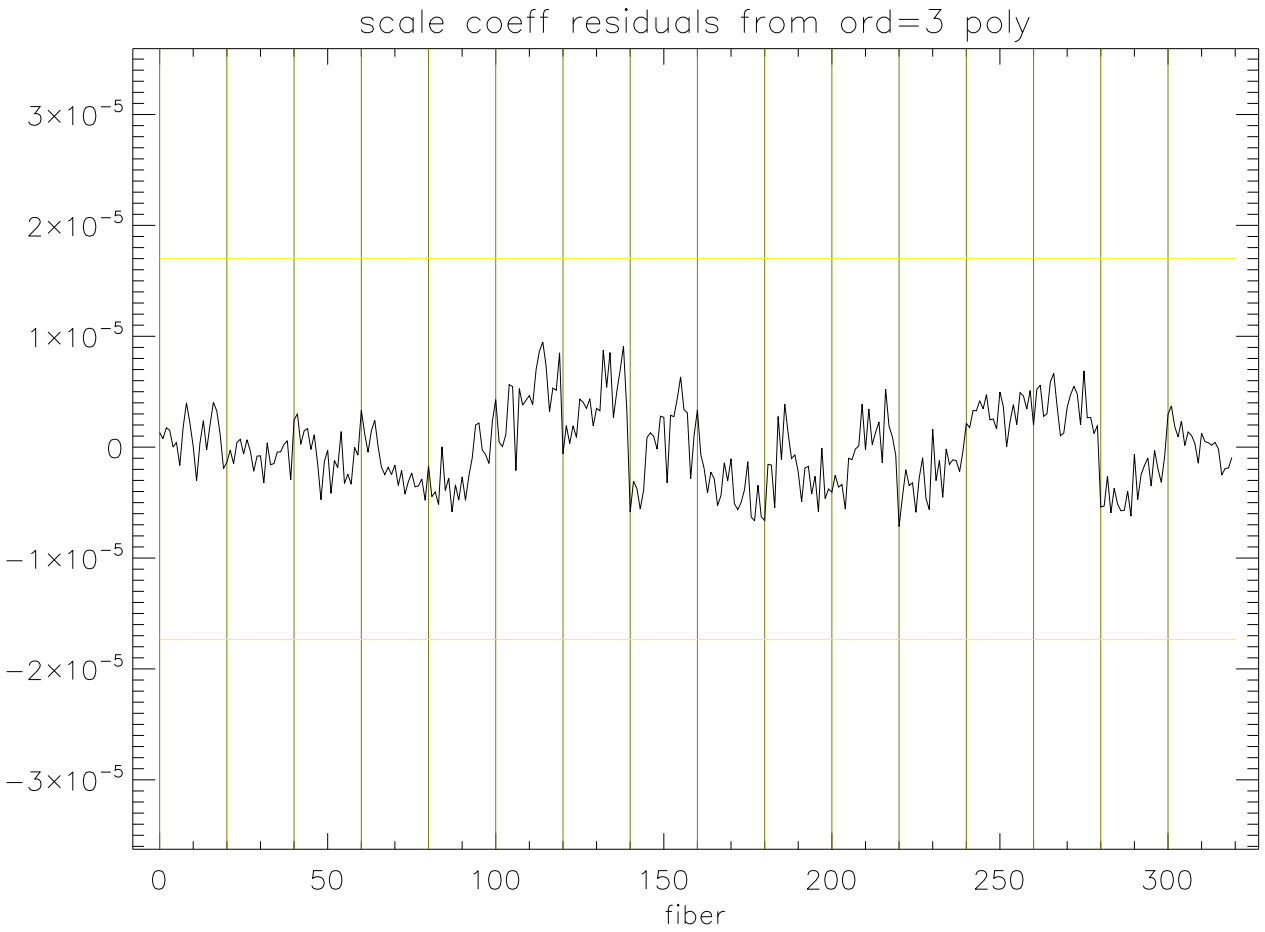
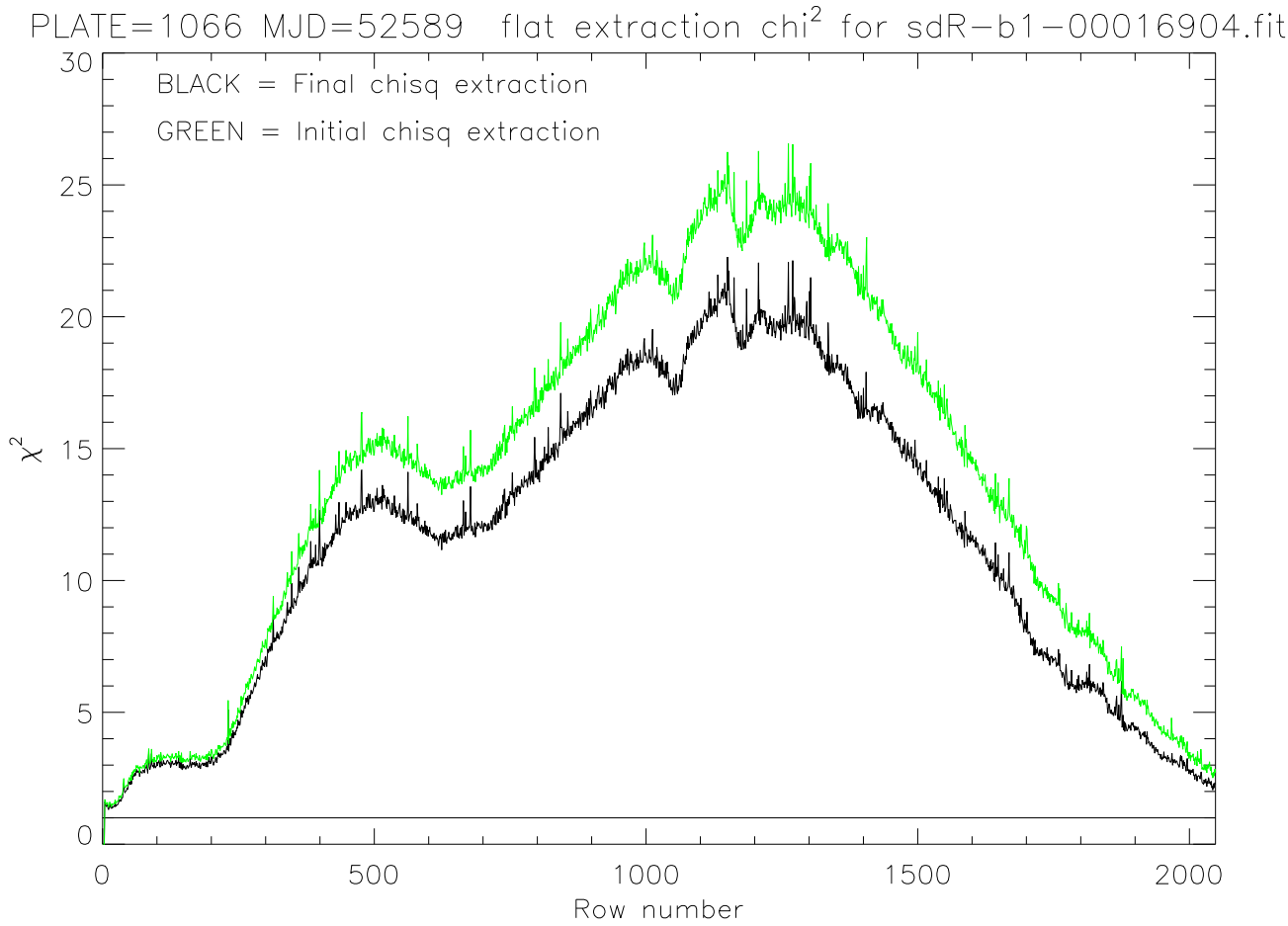
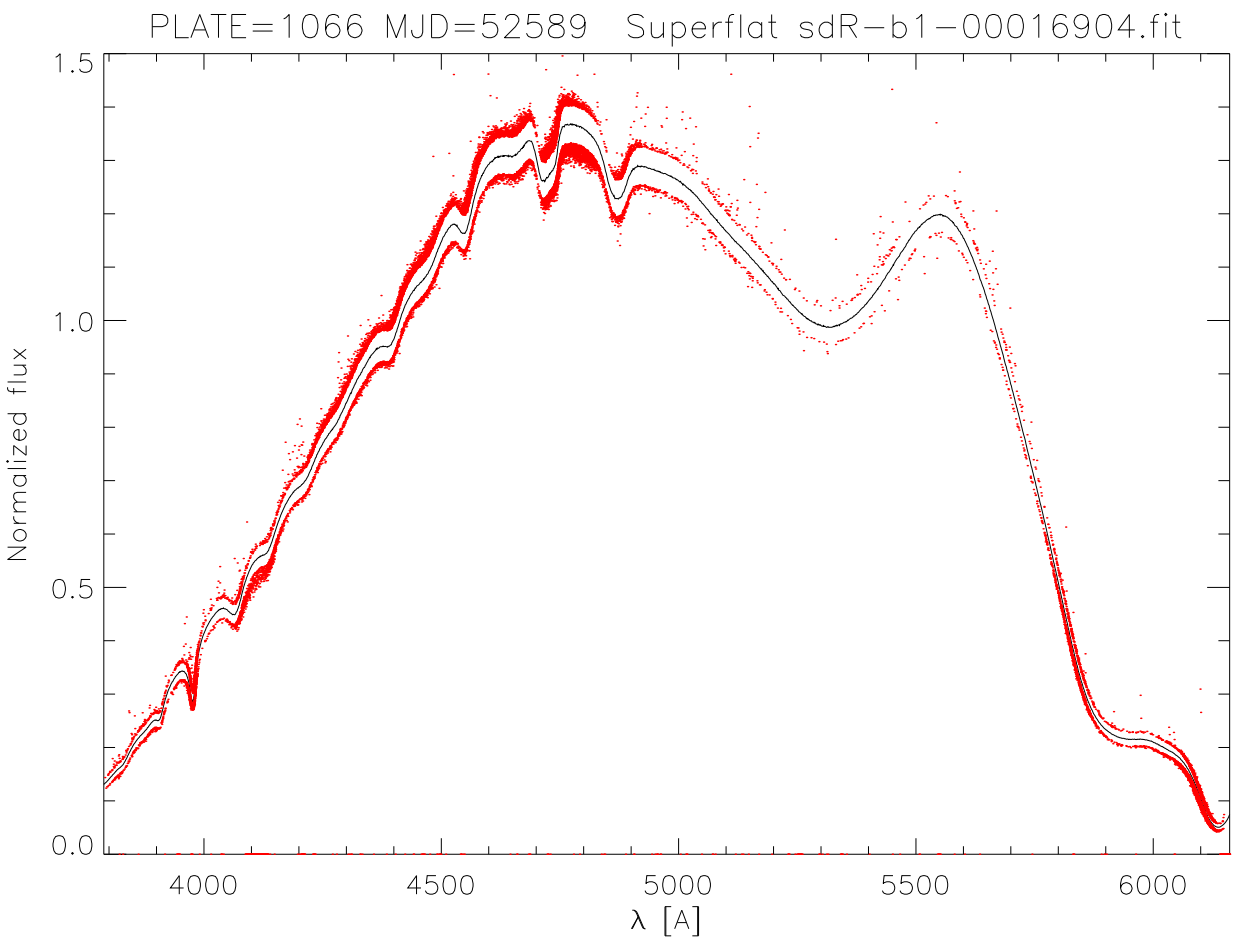
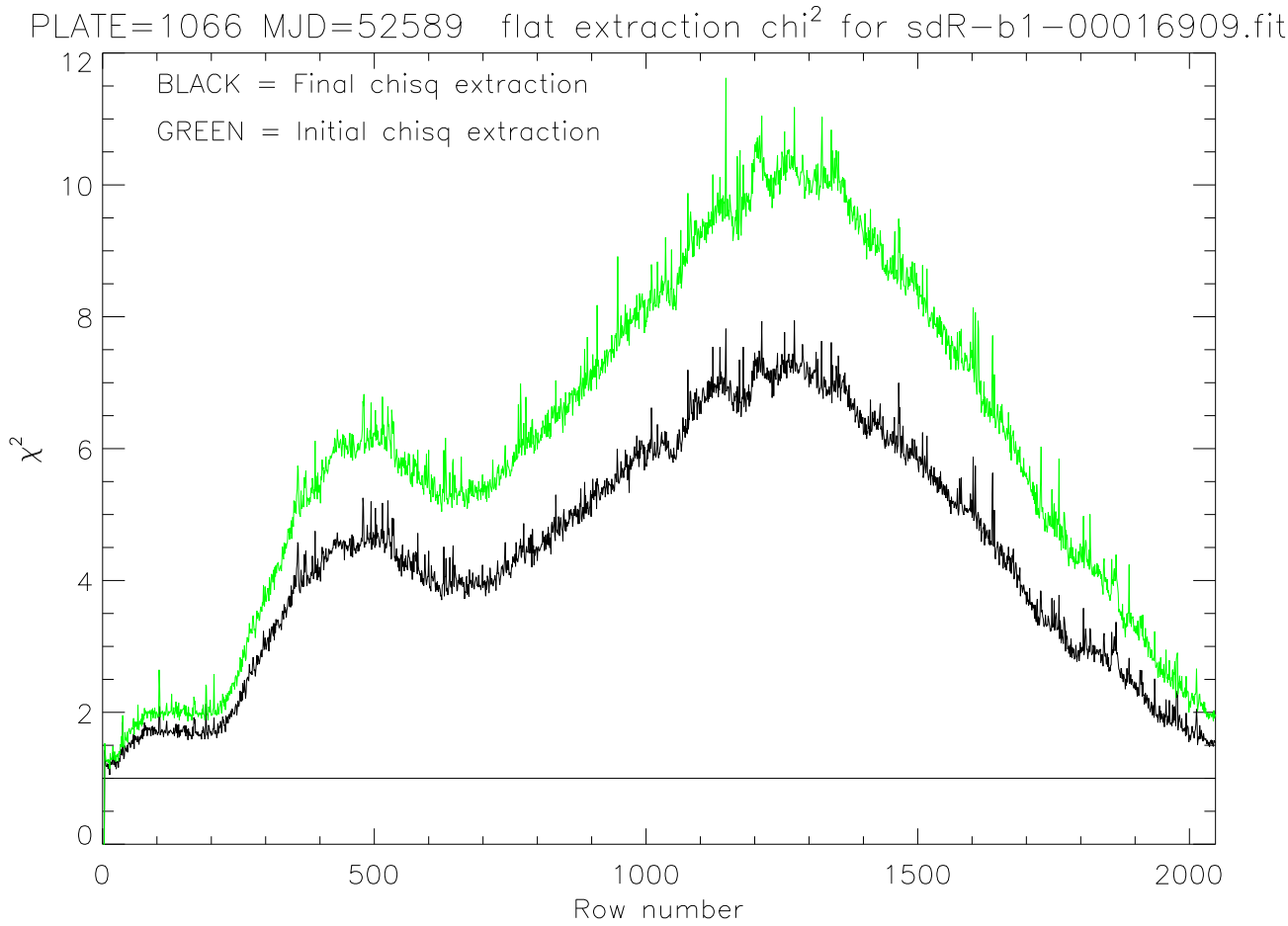
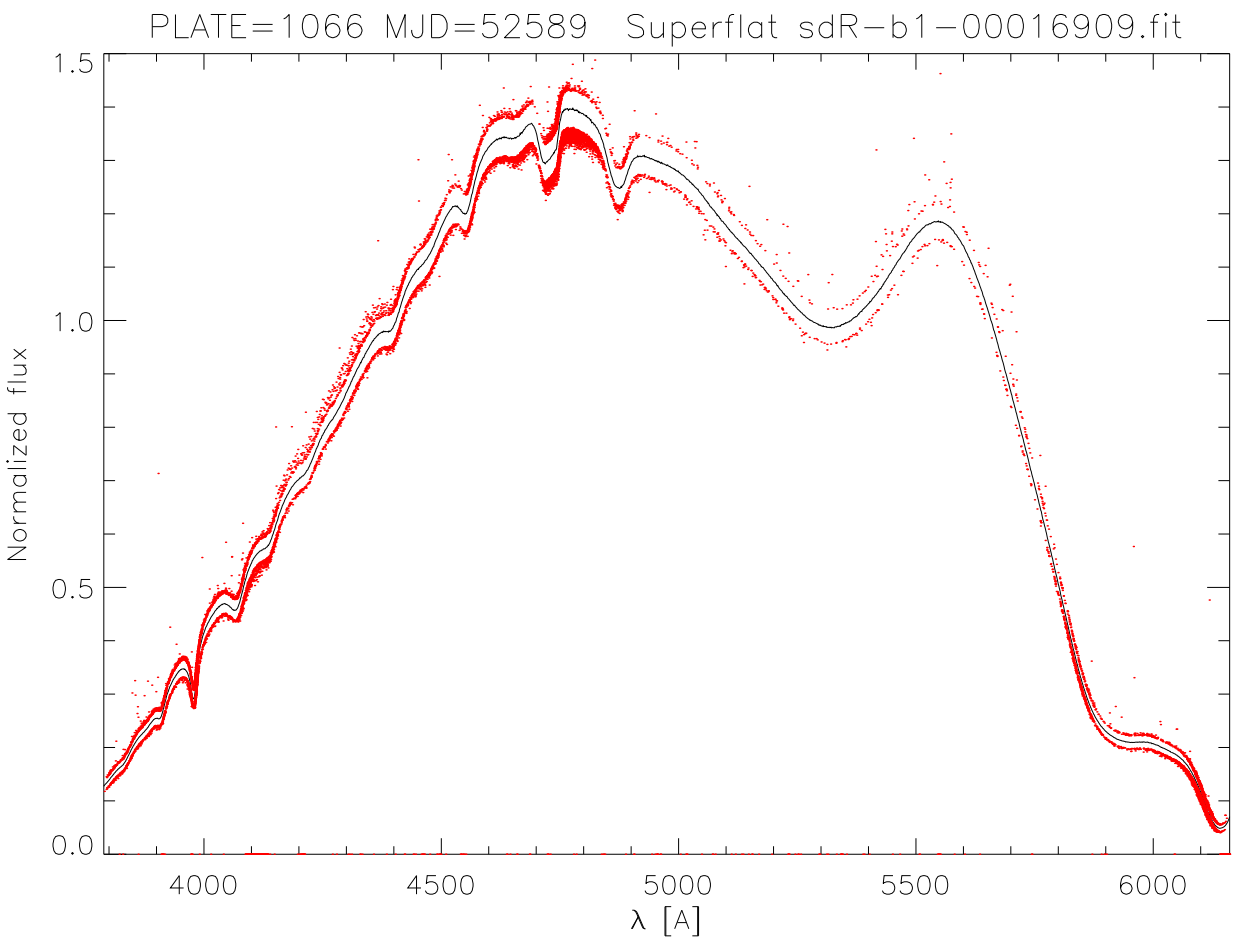

offset coeff residuals from ord=3 poly
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

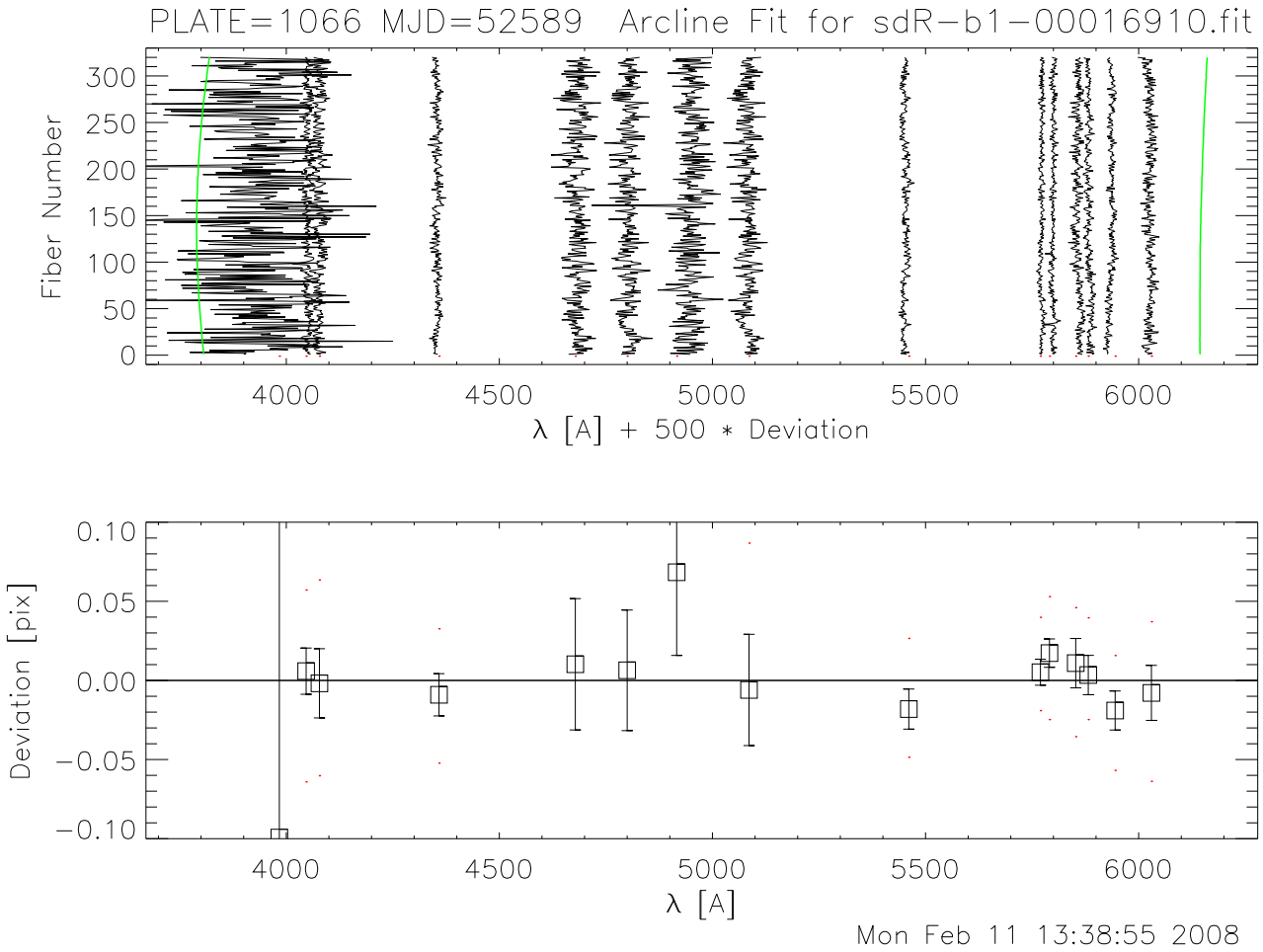

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

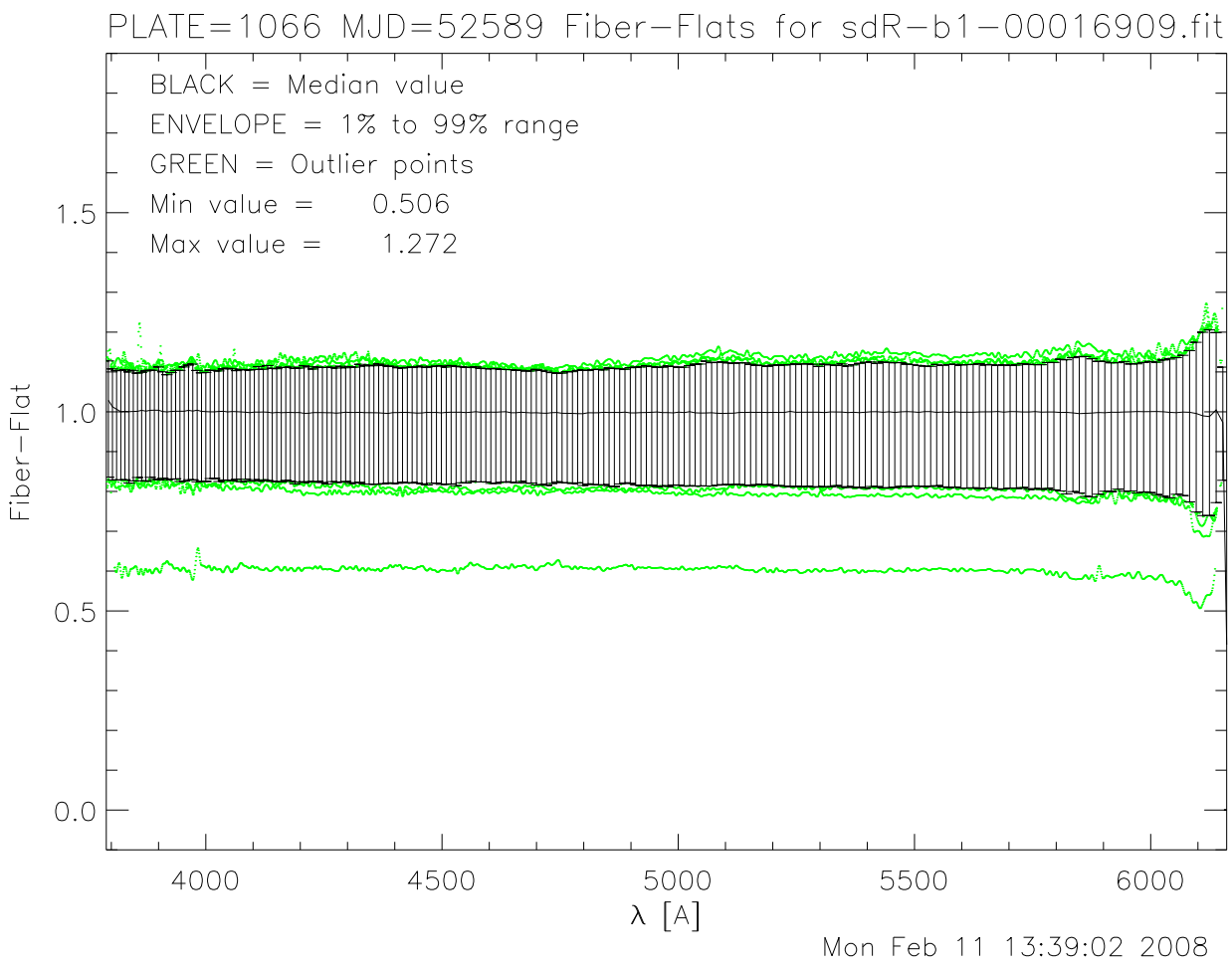

PLATE=1066 MJD=52589 flat extraction chi^2 for sdR−b1−00016904.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
25
30
0
500
1000
1500
2000

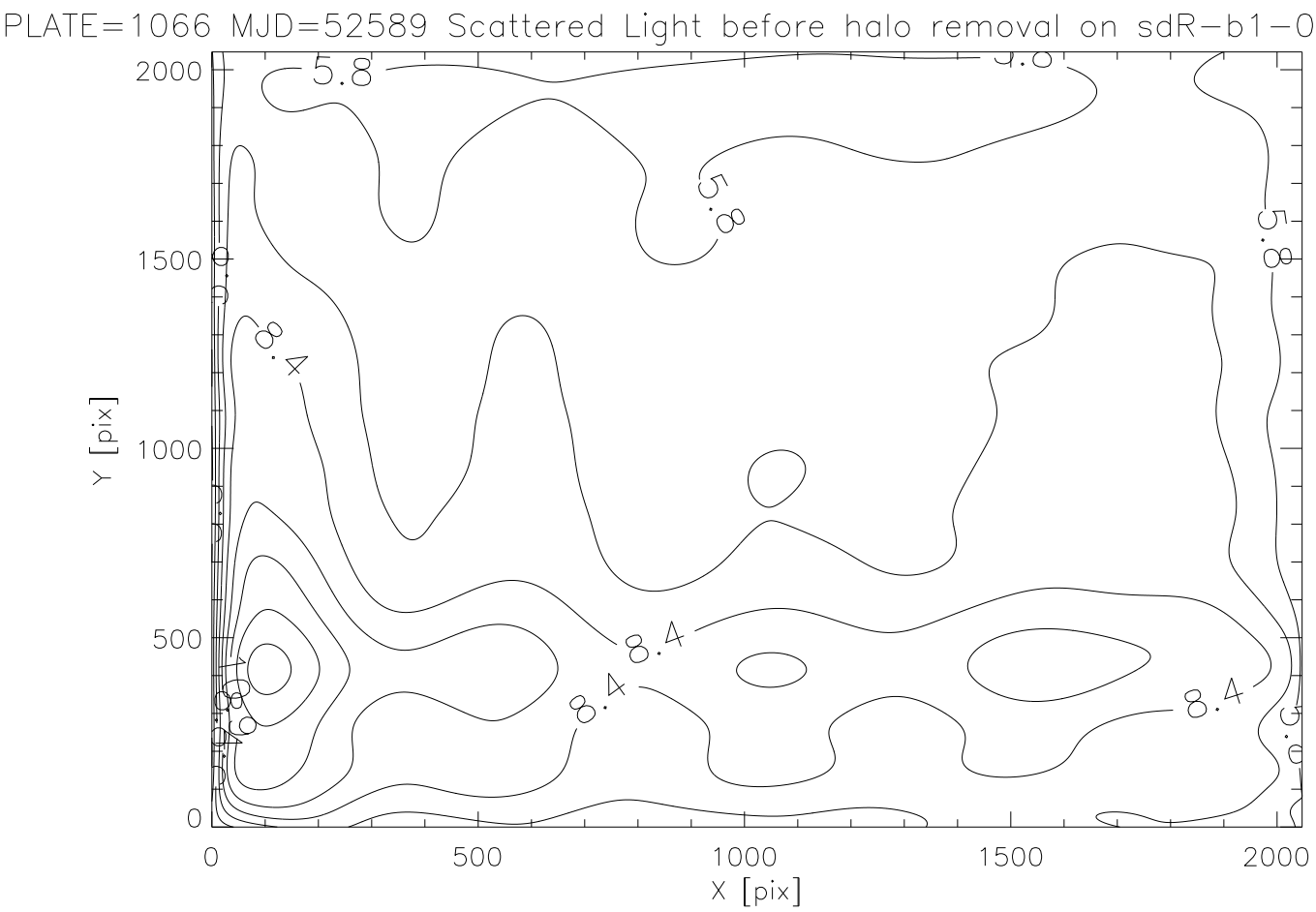

PLATE=1066 MJD=52589 Superflat sdR-b1-00016904.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

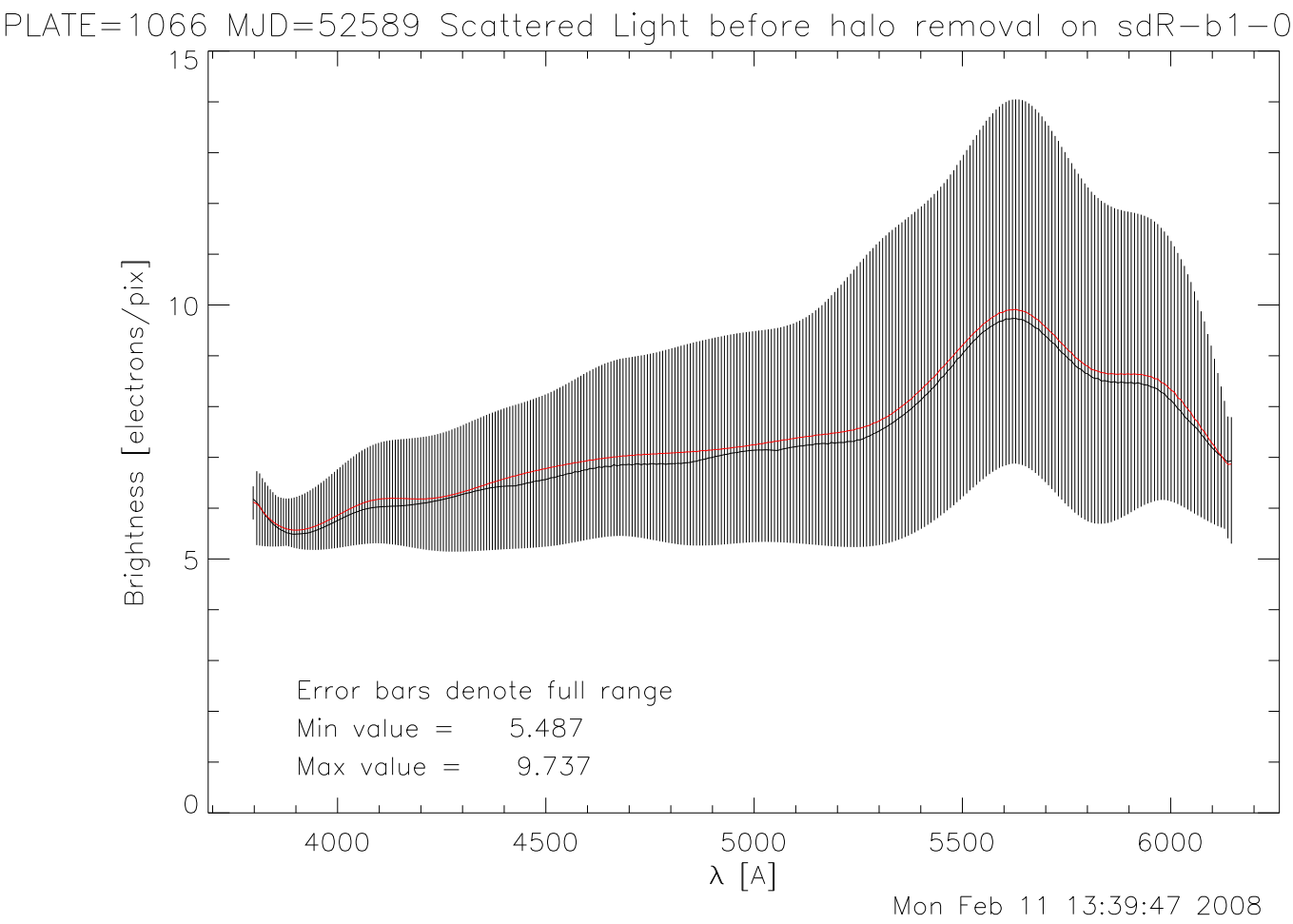

PLATE=1066 MJD=52589 flat extraction chi^2 for sdR−b1−00016909.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

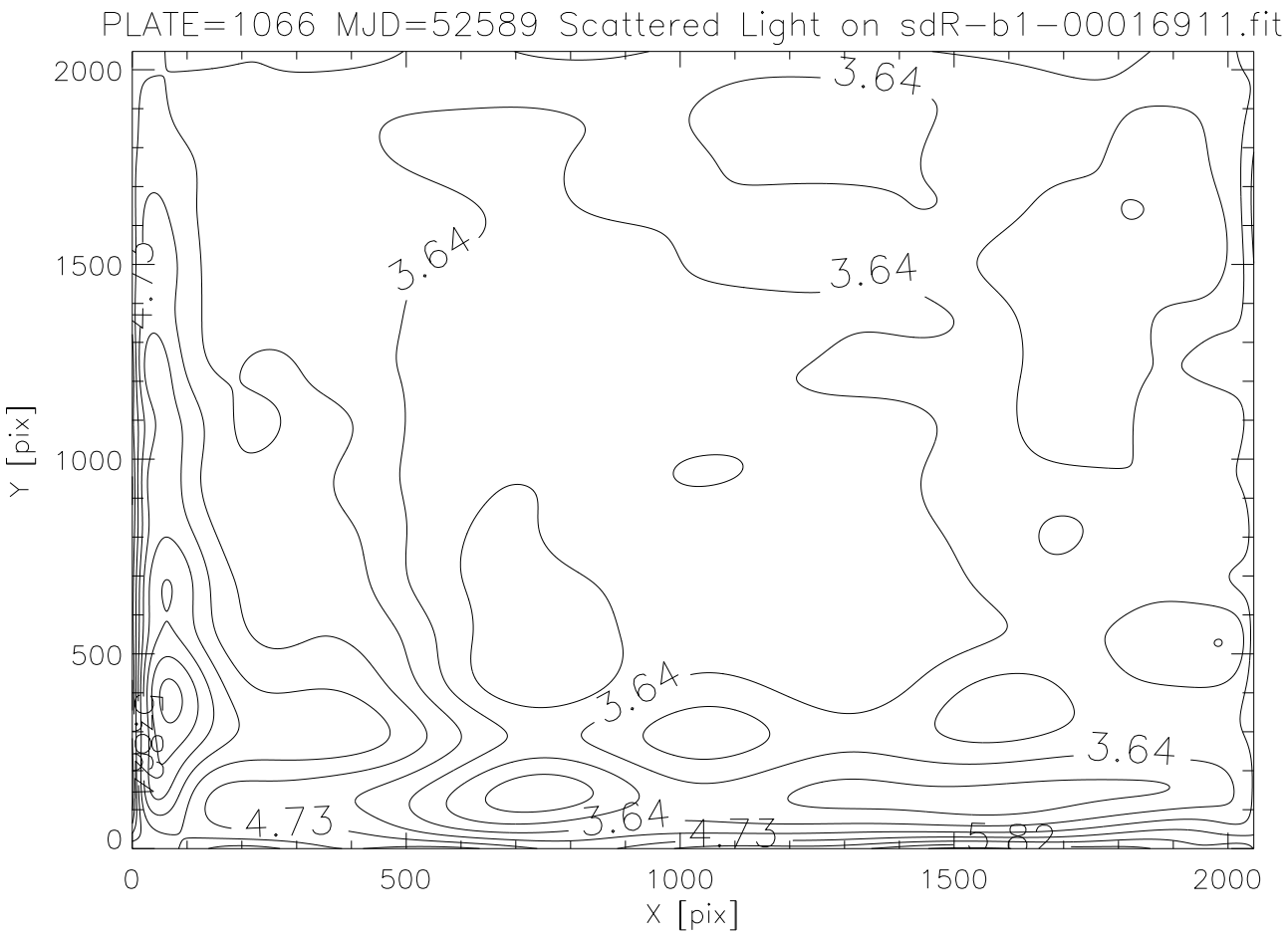

PLATE=1066 MJD=52589 Superflat sdR-b1-00016909.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

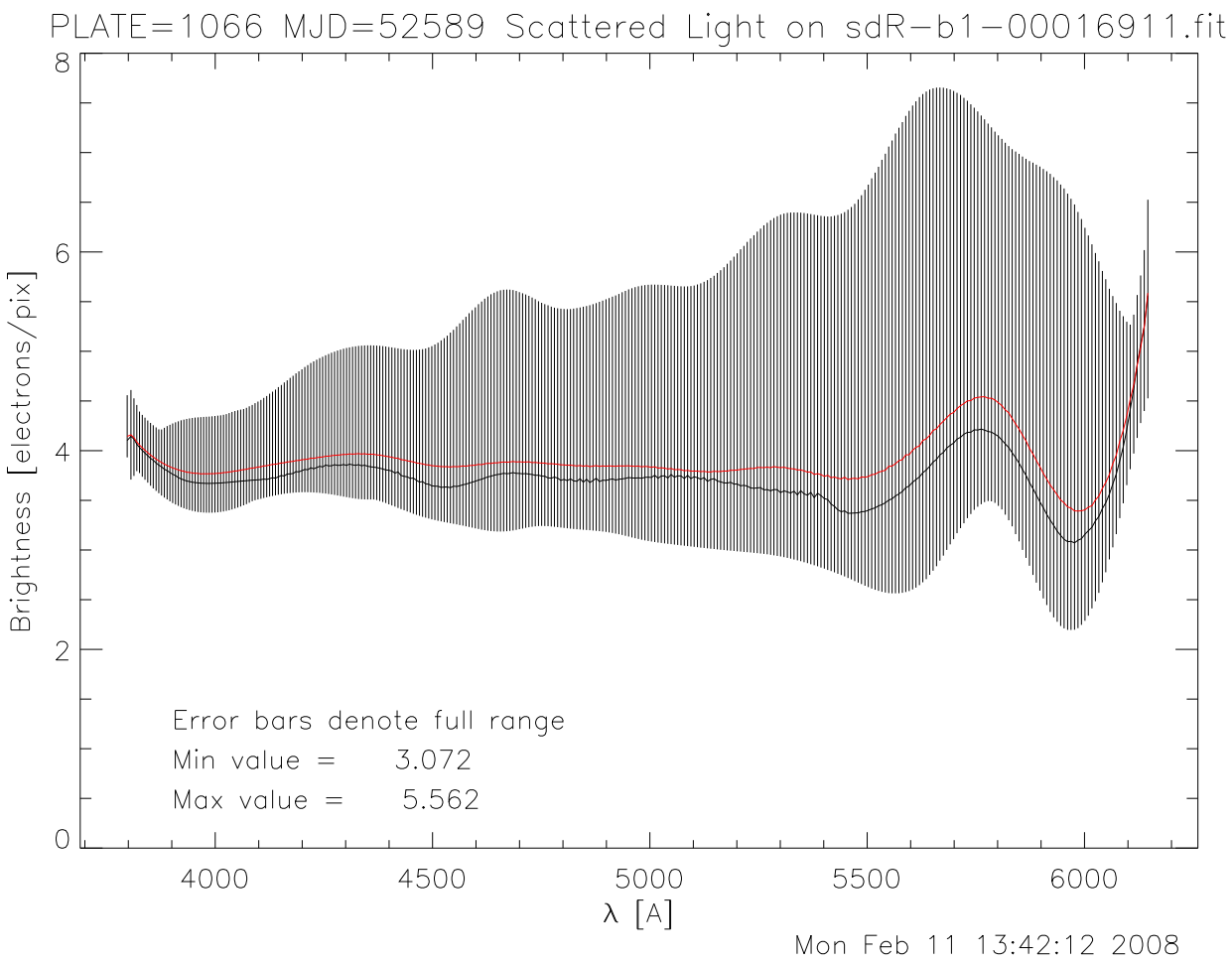

PLATE=1066 MJD=52589 Arcline Fit for sdR-b1-00016910.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 13:38:55 2008

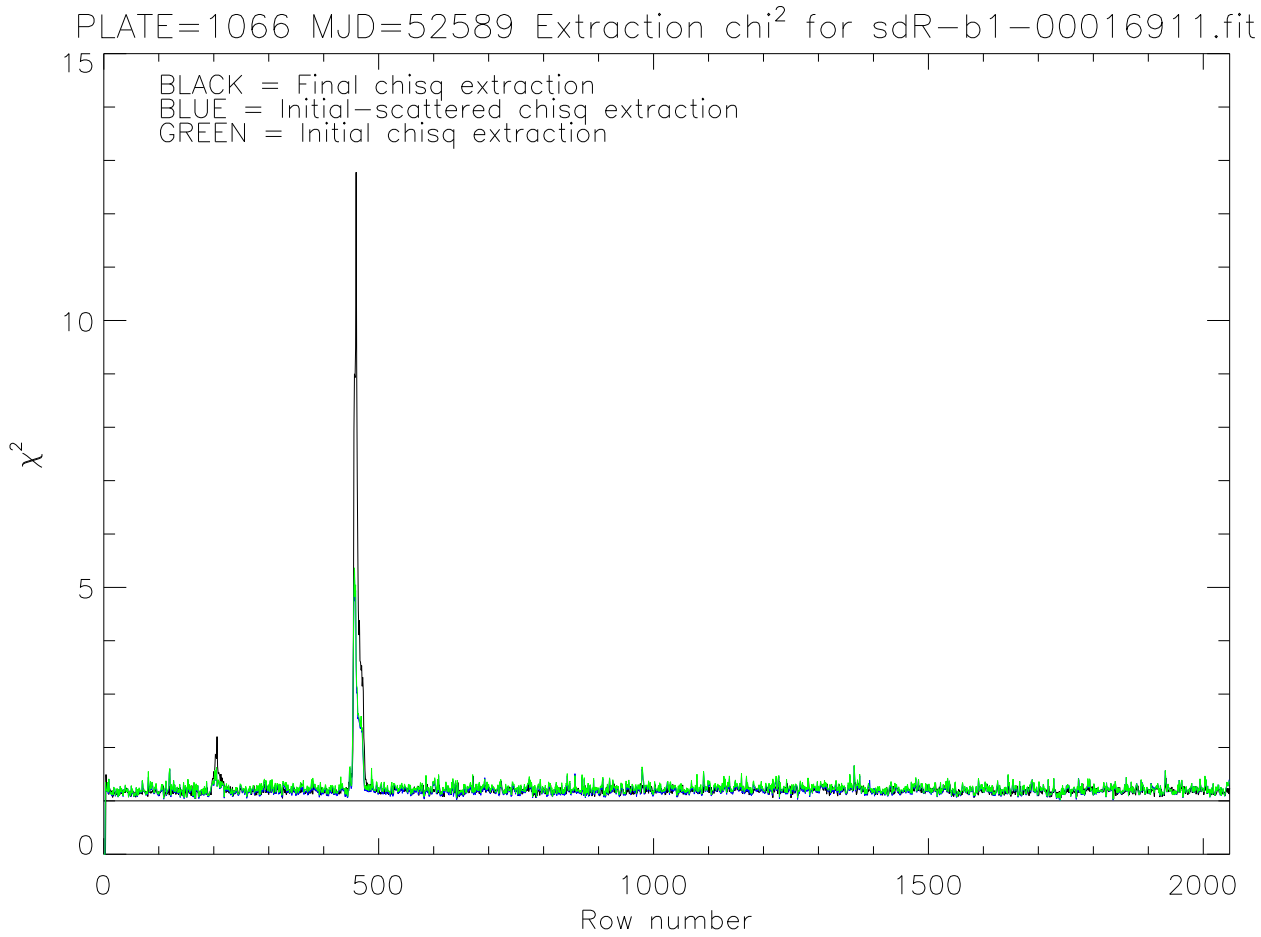

PLATE=1066 MJD=52589 Fiber−Flats for sdR−b1−00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.506
Max value = 1.272
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 13:39:02 2008

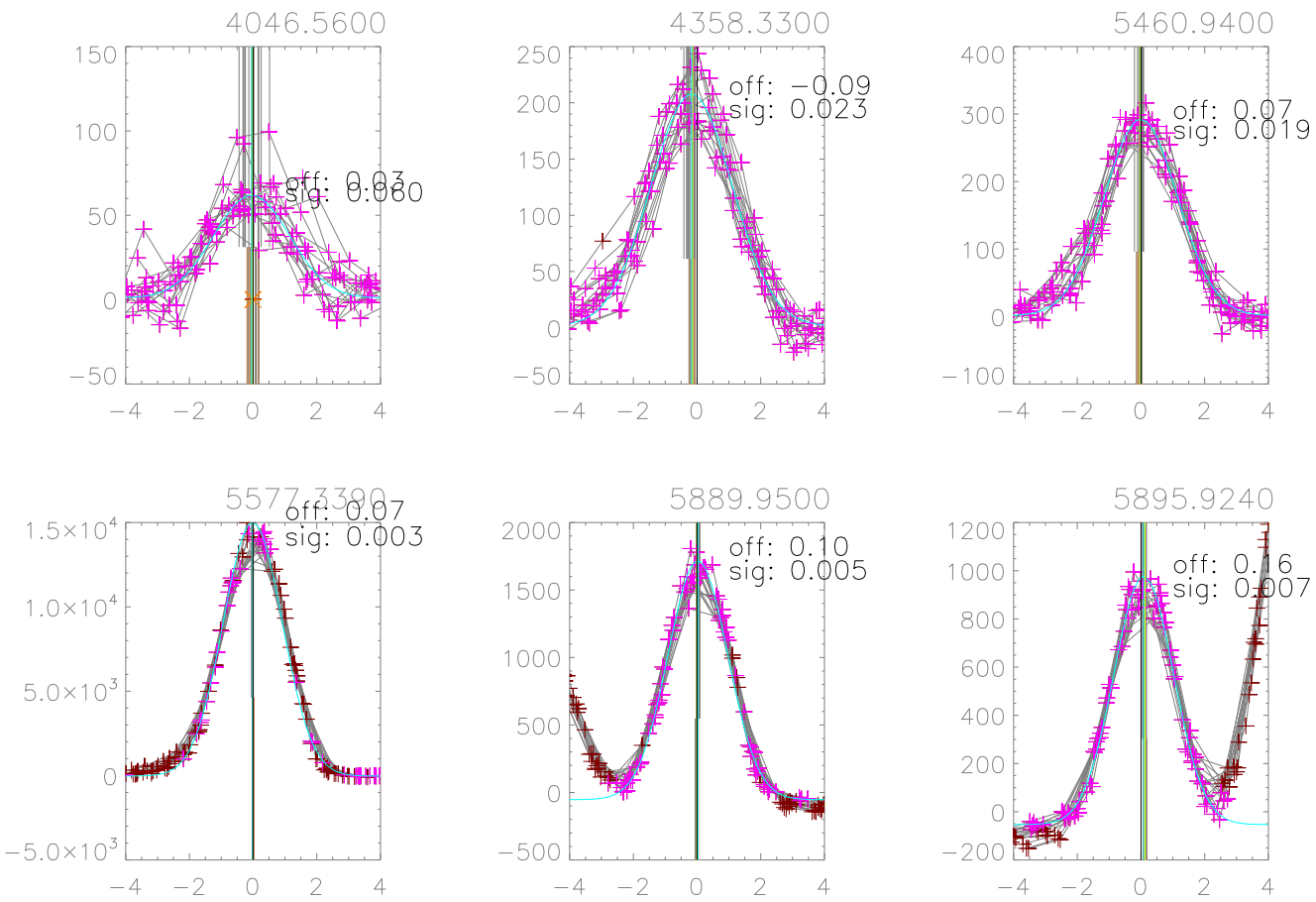

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR−b1−00016911.f
5.8
8.4
Y [pix]
X [pix]
0
500
1000
1500
2000

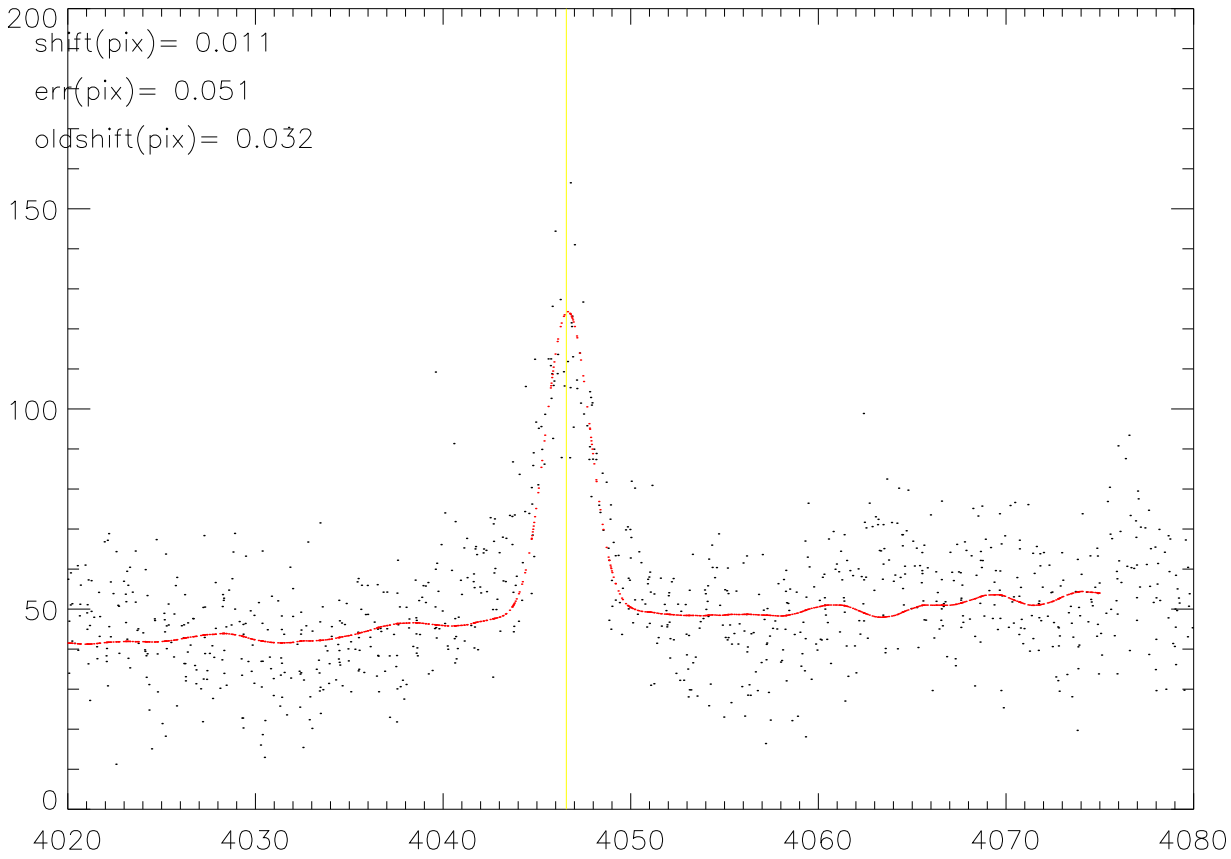

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-b1-00016911.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.487
Max value = 9.737
Mon Feb 11 13:39:47 2008

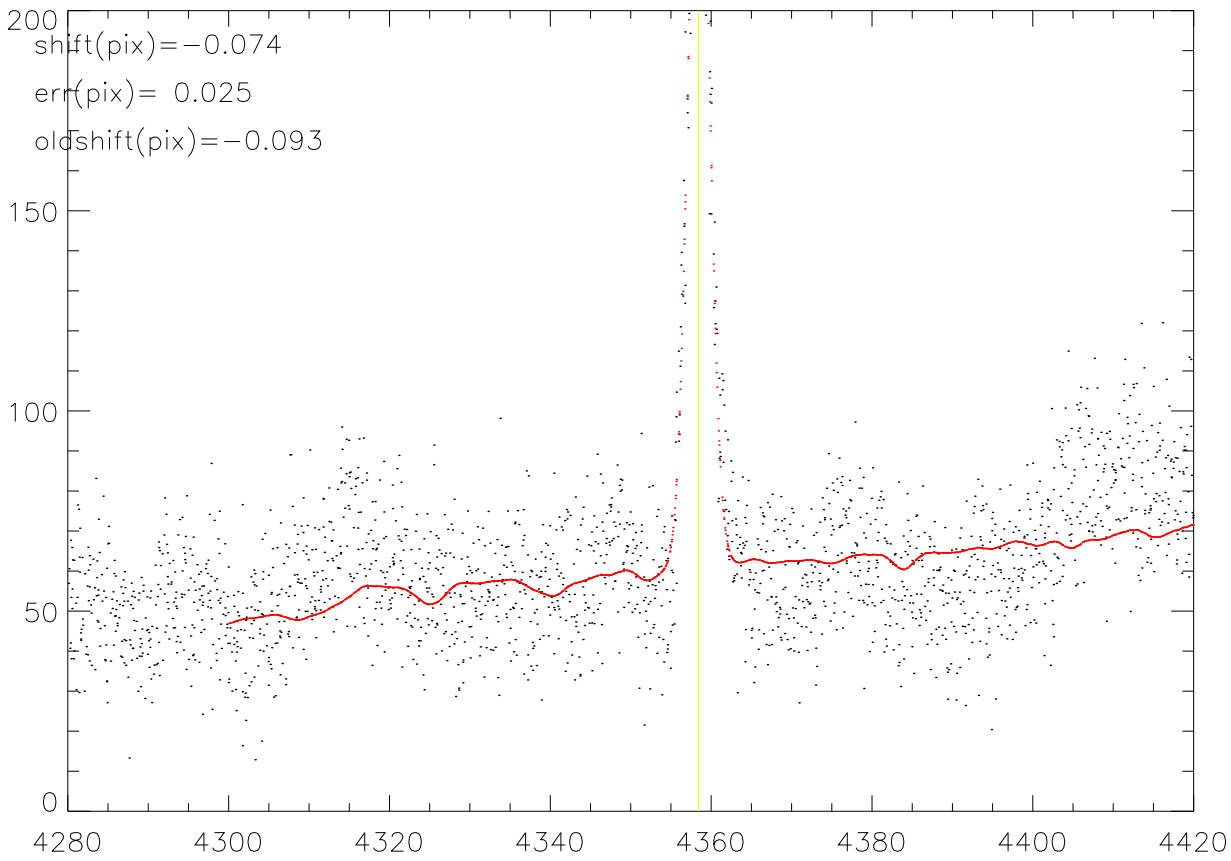

PLATE=1066 MJD=52589 Scattered Light on sdR-b1-00016911.fit
3.64
3.64
3.64
3.64
3.64
4.73
4.73
5.82
Y [pix]
X [pix]
0
500
1000
1500
2000

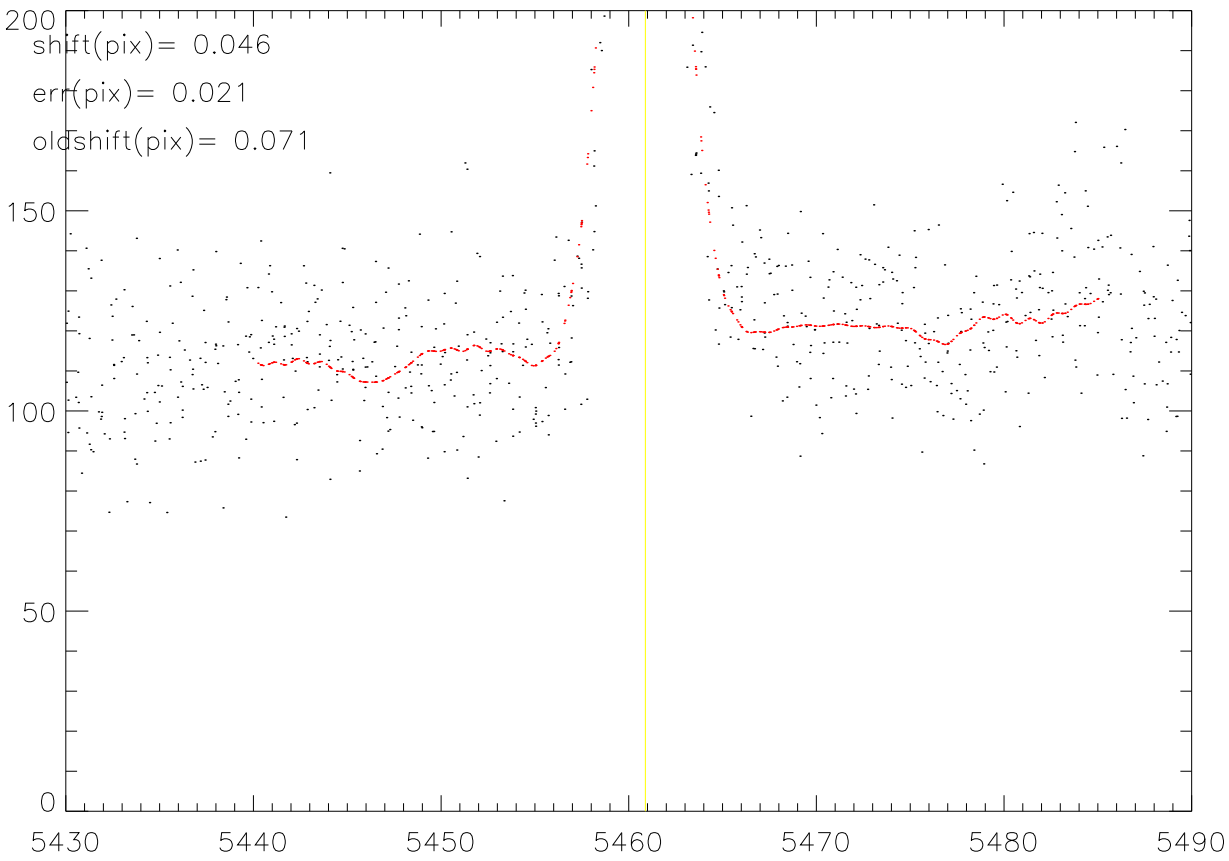

PLATE=1066 MJD=52589 Scattered Light on sdR-b1-00016911.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.072
Max value = 5.562
Mon Feb 11 13:42:12 2008

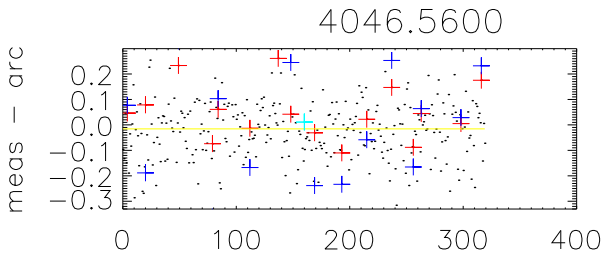

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-b1-00016911.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
0
500
1000
1500
2000
Row number

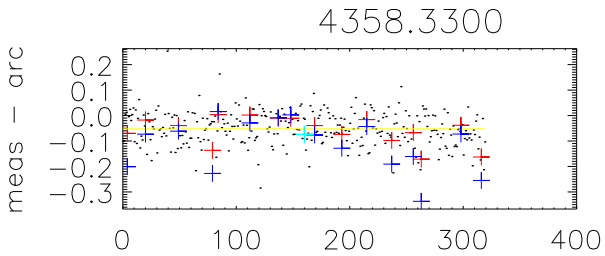

4046.5600
off: 0.03
sig: 0.060
4358.3300
off: −0.09
sig: 0.023
5460.9400
off: 0.07
sig: 0.019
5577.3390
off: 0.07
sig: 0.003
5889.9500
off: 0.10
sig: 0.005
5895.9240
off: 0.16
sig: 0.007

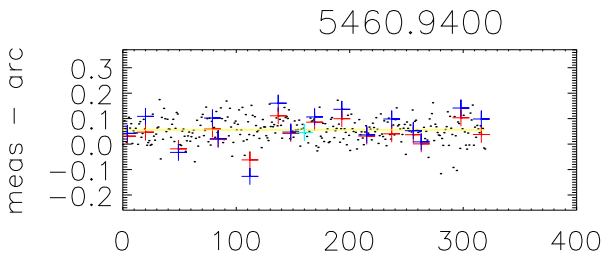

shift(pix)= 0.011
err(pix)= 0.051
oldshift(pix)= 0.032
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

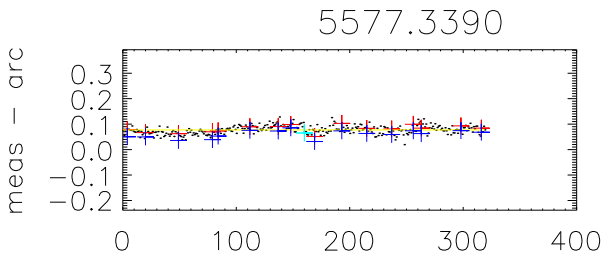

shift(pix)=−0.074
err(pix)= 0.025
oldshift(pix)=−0.093
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

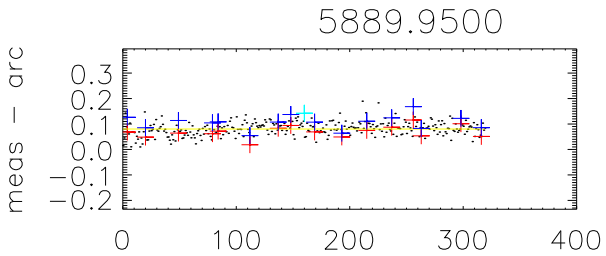

shift(pix)= 0.046
err(pix)= 0.021
oldshift(pix)= 0.071
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

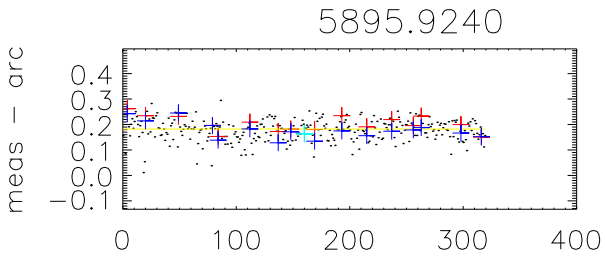

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

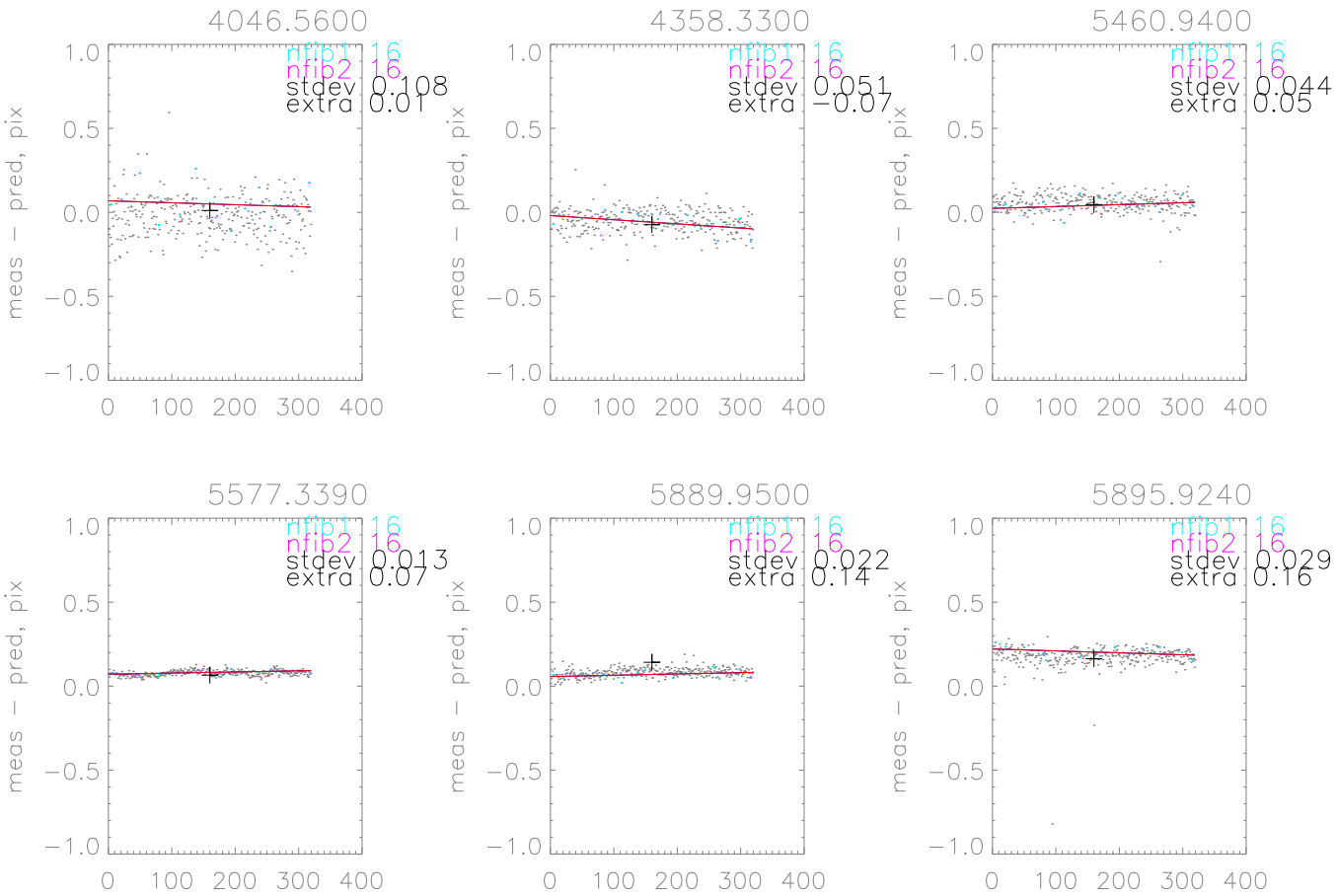

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

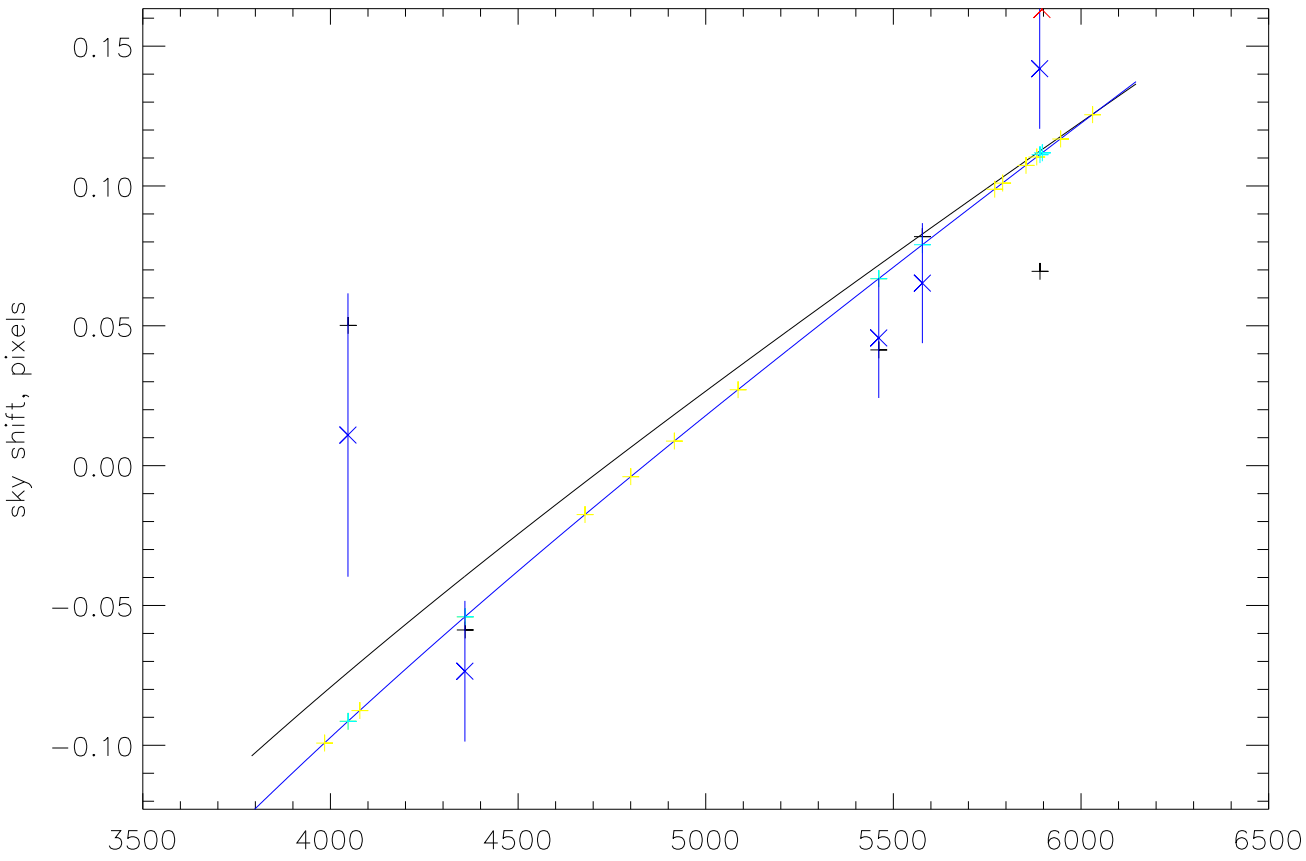

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

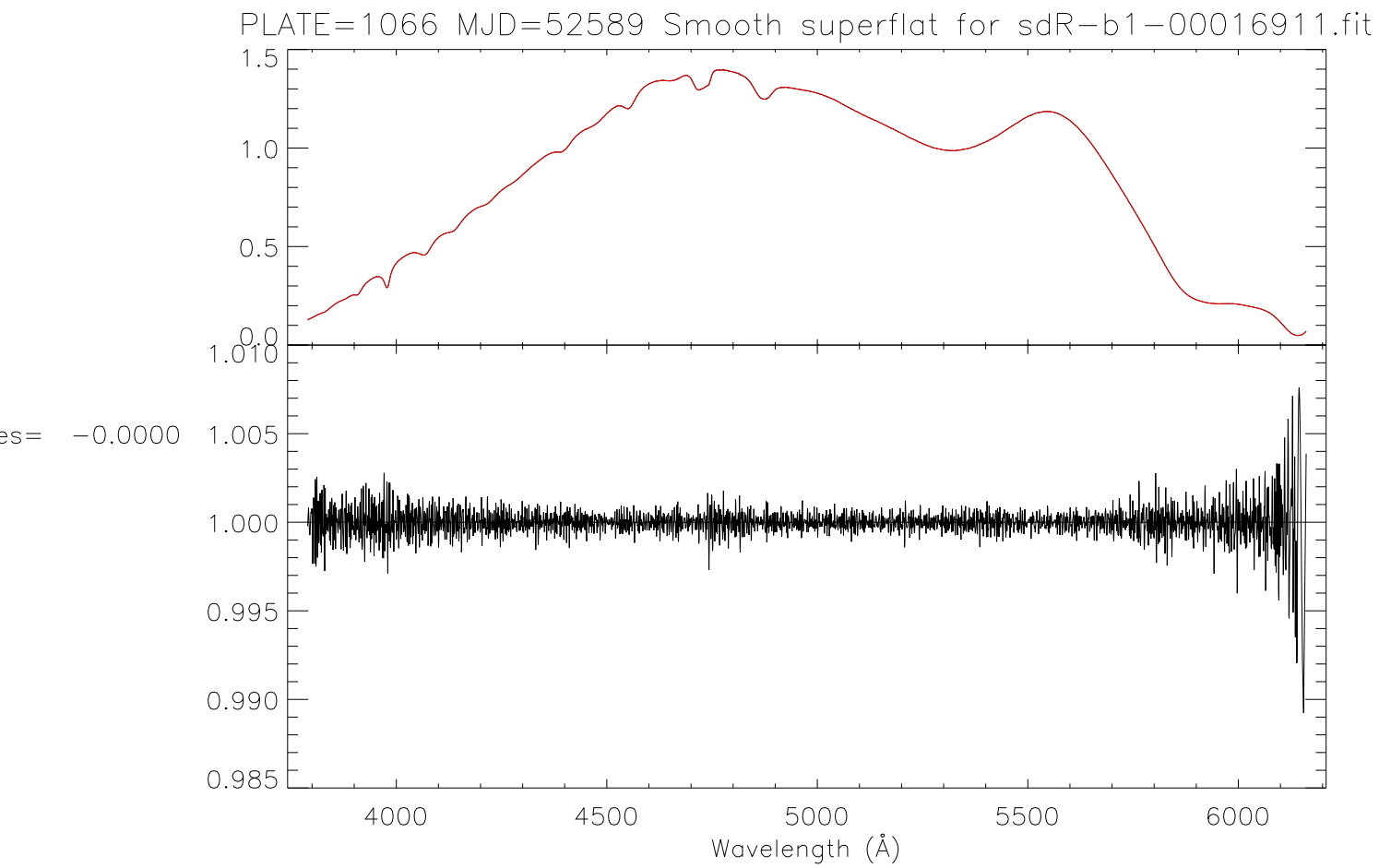

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

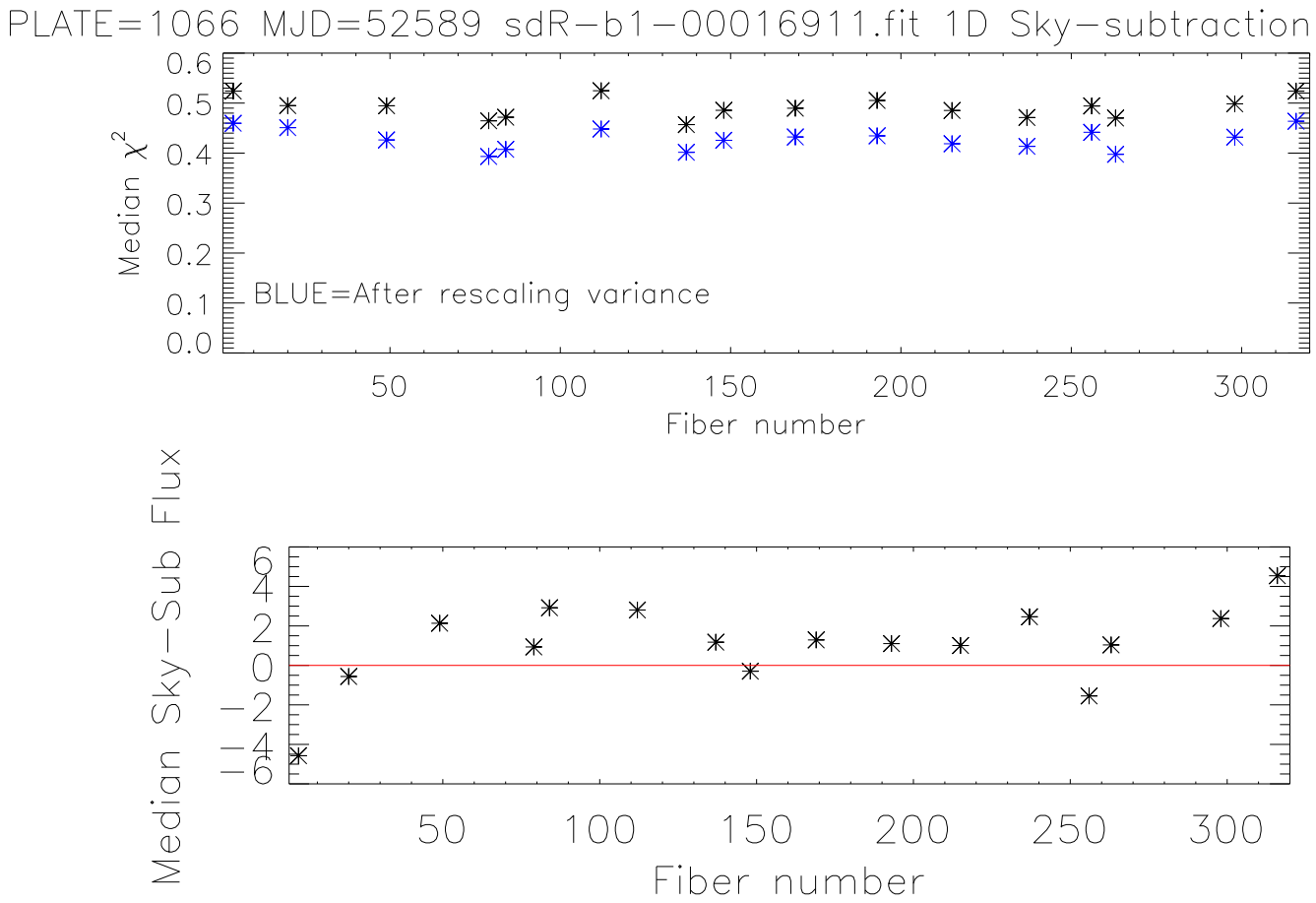

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

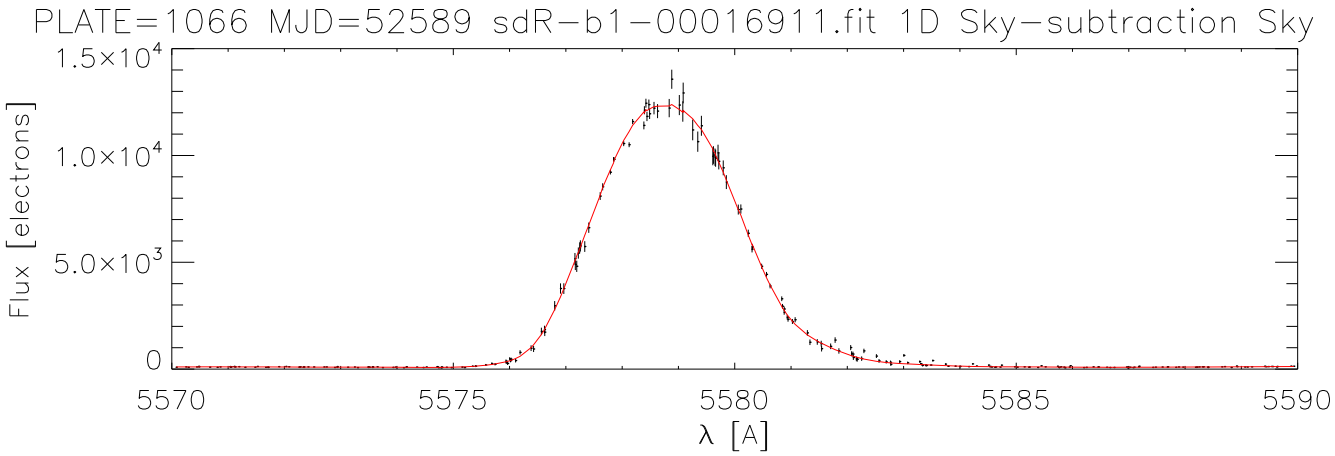

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

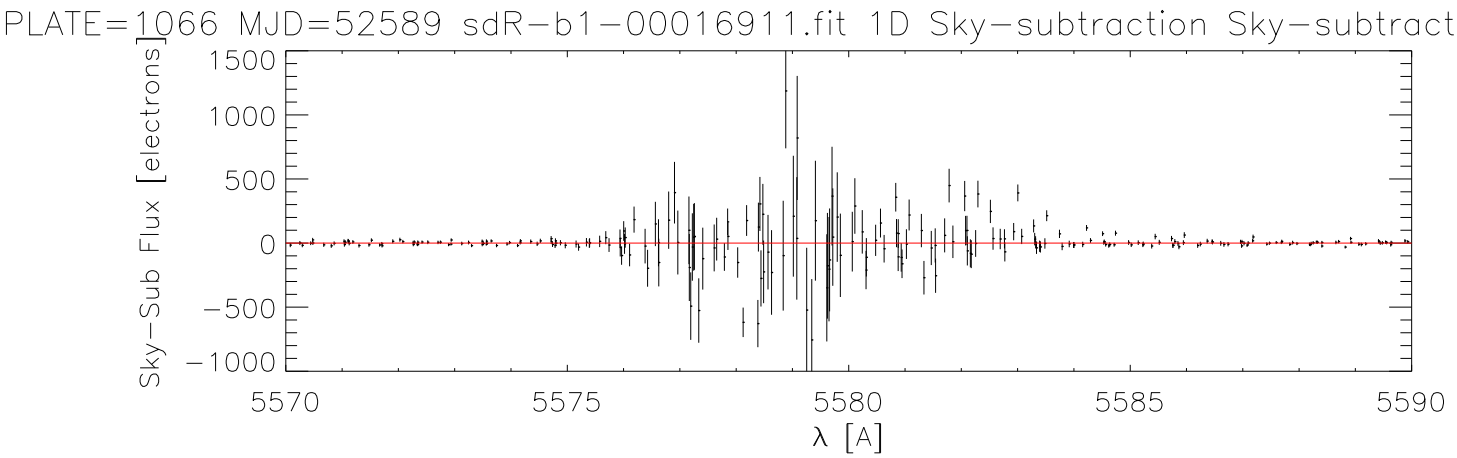

4046.5600
nfib1 16
nfib2 16
stdev 0.108
extra 0.01
4358.3300
nfib1 16
nfib2 16
stdev 0.051
extra −0.07
5460.9400
nfib1 16
nfib2 16
stdev 0.044
extra 0.05
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra 0.07
5889.9500
nfib1 16
nfib2 16
stdev 0.022
extra 0.14
5895.9240
nfib1 16
nfib2 16
stdev 0.029
extra 0.16
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

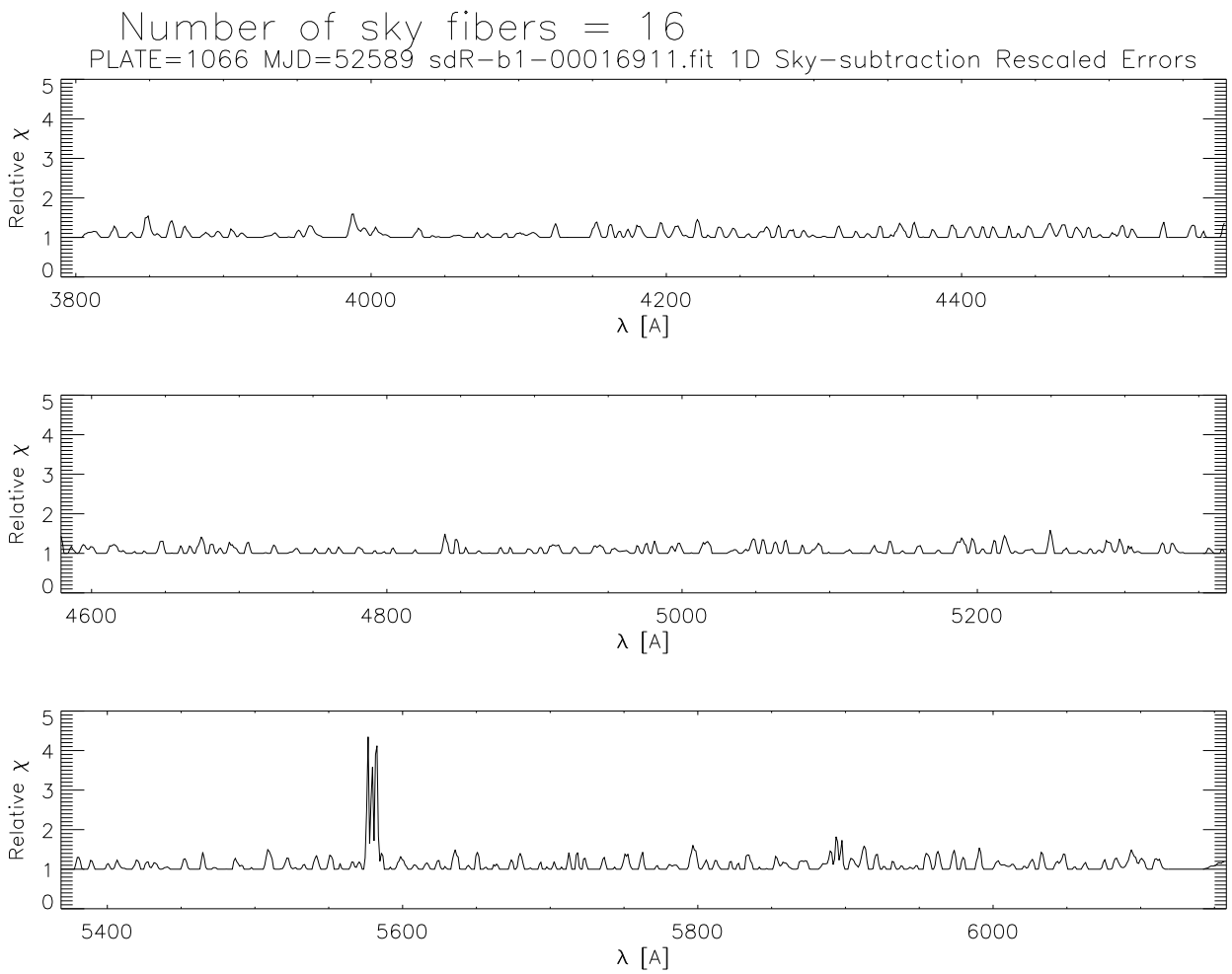

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
3500
4000
4500
5000
5500
6000
6500

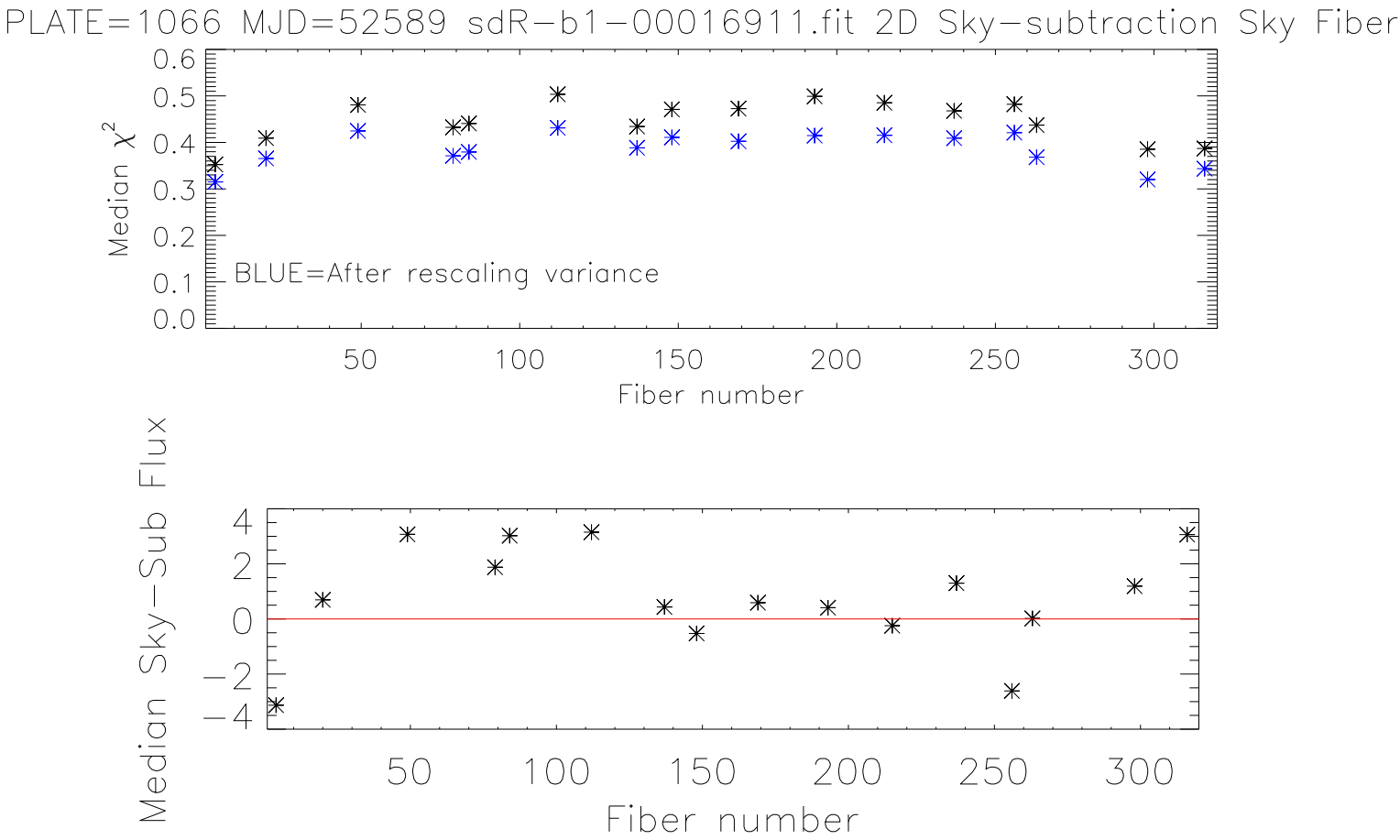

PLATE=1066 MJD=52589 Smooth superflat for sdR-b1-00016911.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

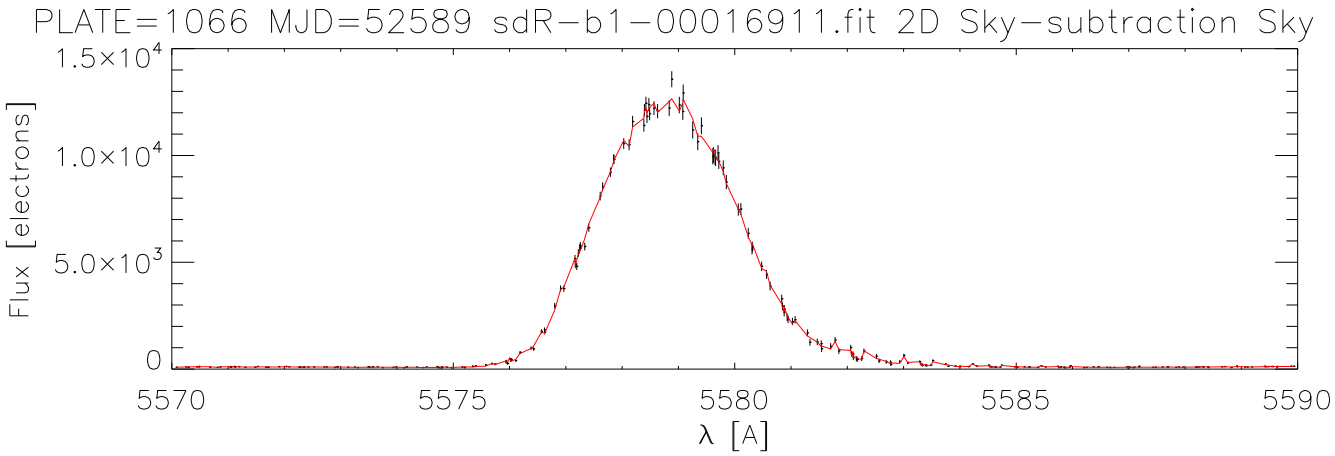

PLATE=1066 MJD=52589 sdR-b1-00016911.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

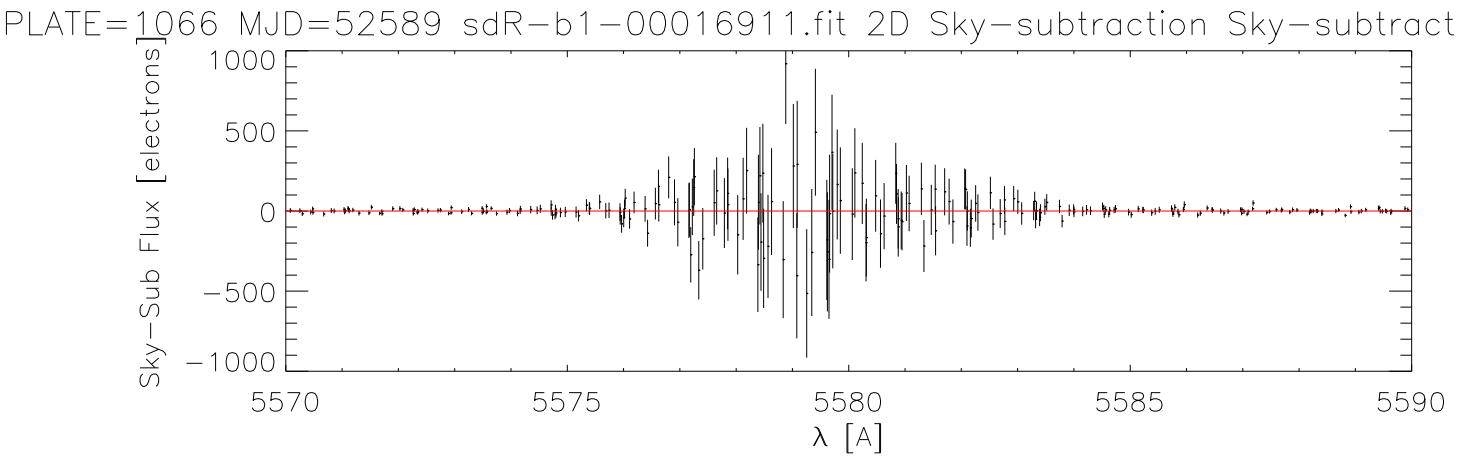

PLATE=1066 MJD=52589 sdR-b1-00016911.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

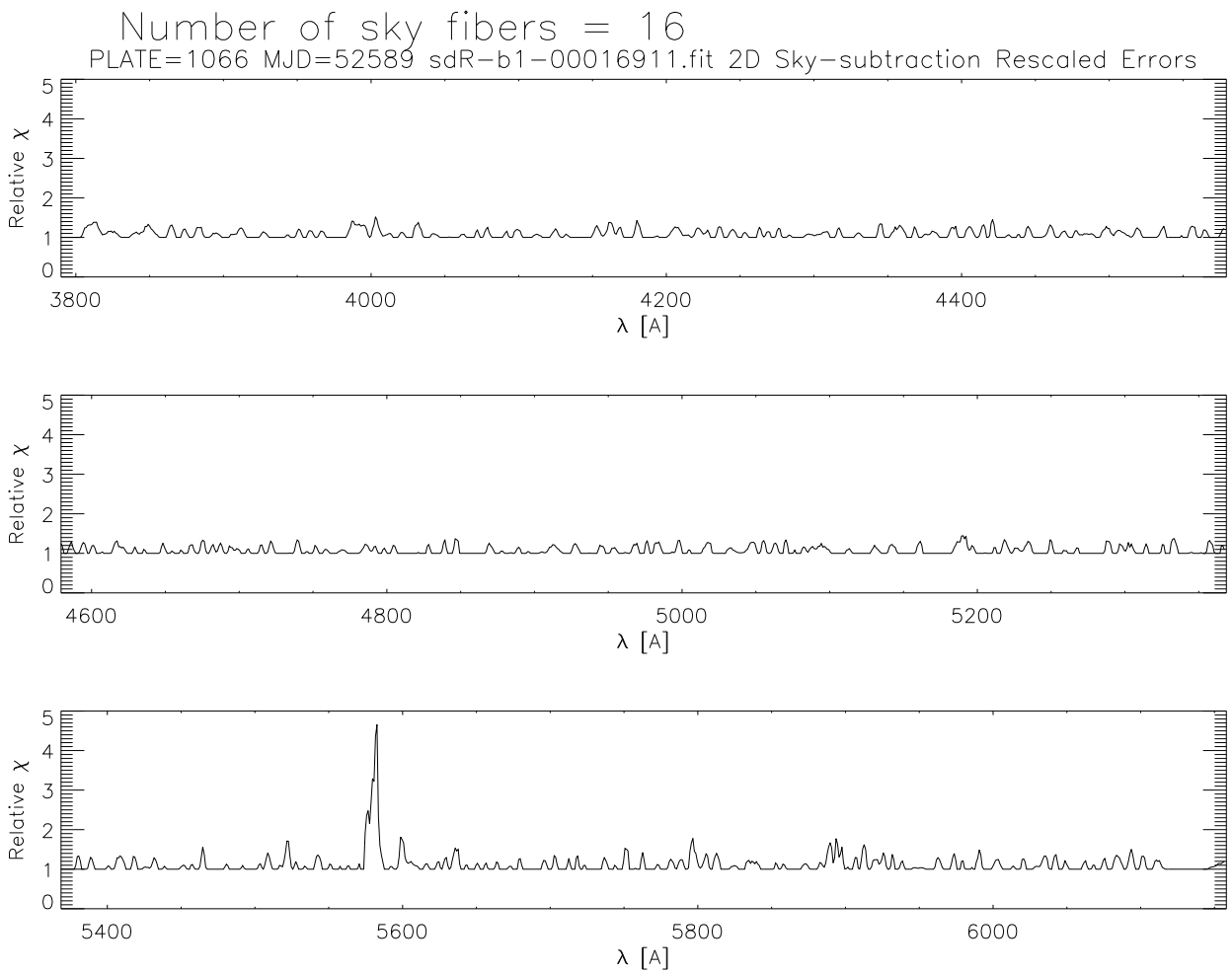

PLATE=1066 MJD=52589 sdR-b1-00016911.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

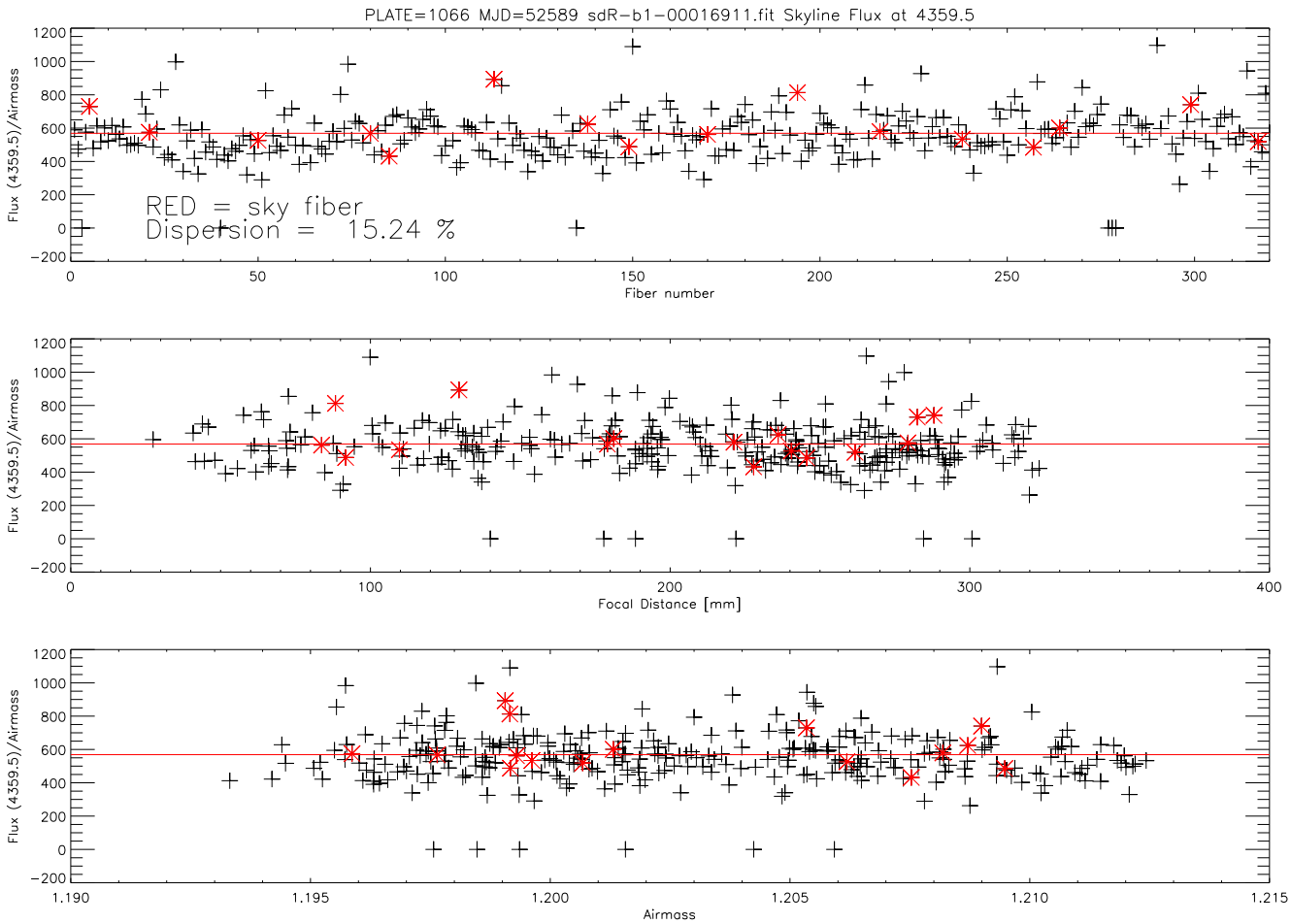

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b1-00016911.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

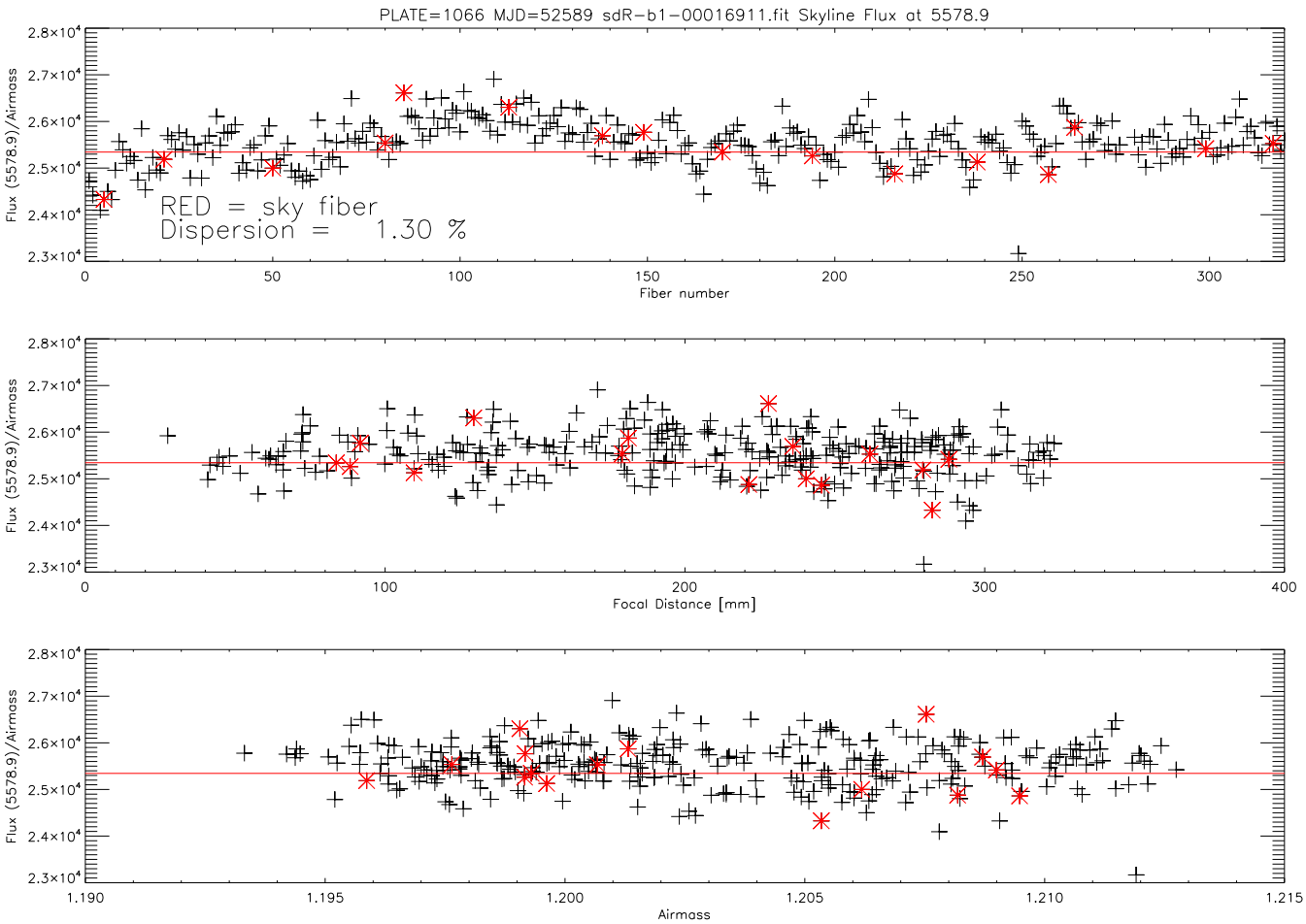

PLATE=1066 MJD=52589 sdR-b1-00016911.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

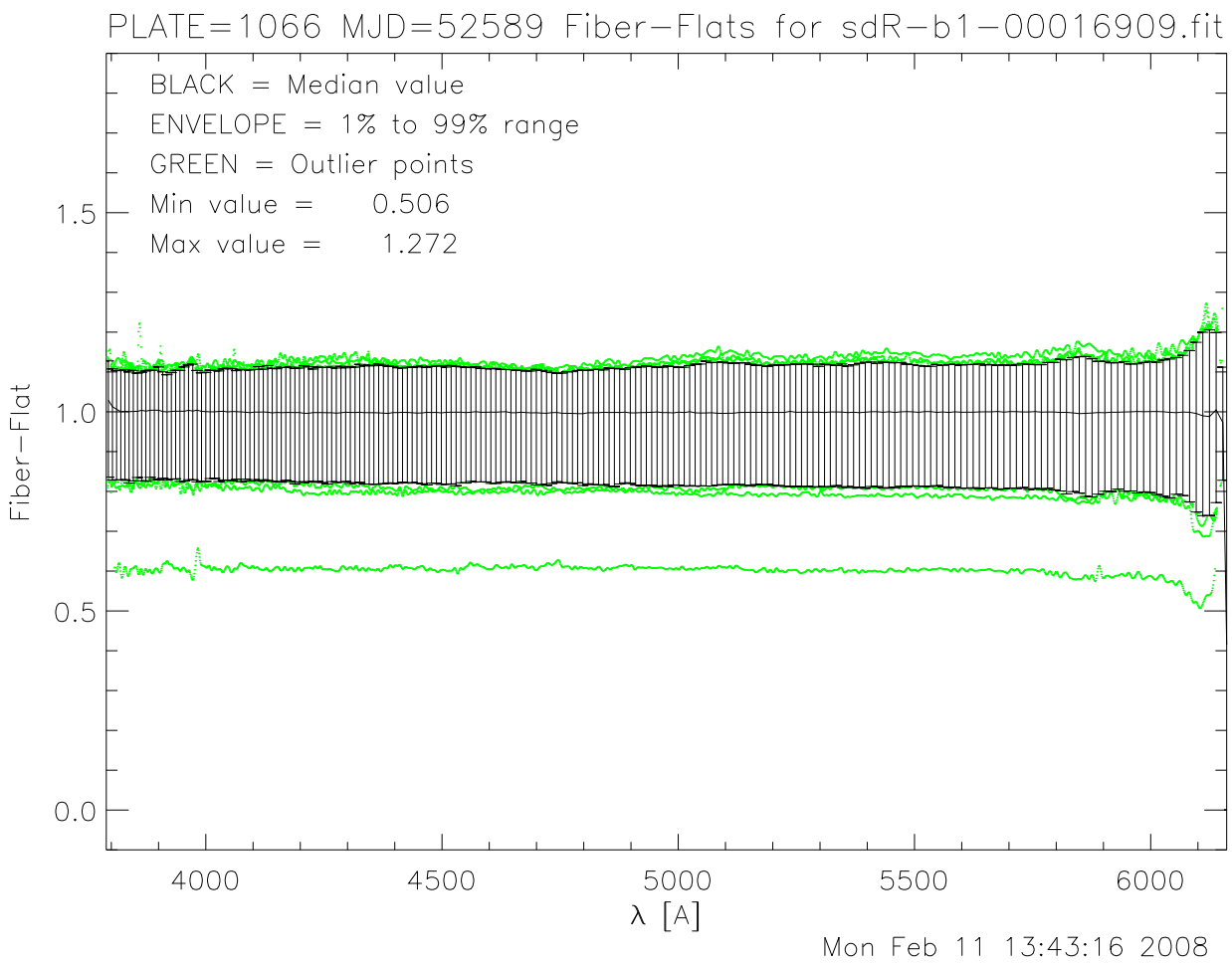

PLATE=1066 MJD=52589 sdR-b1-00016911.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

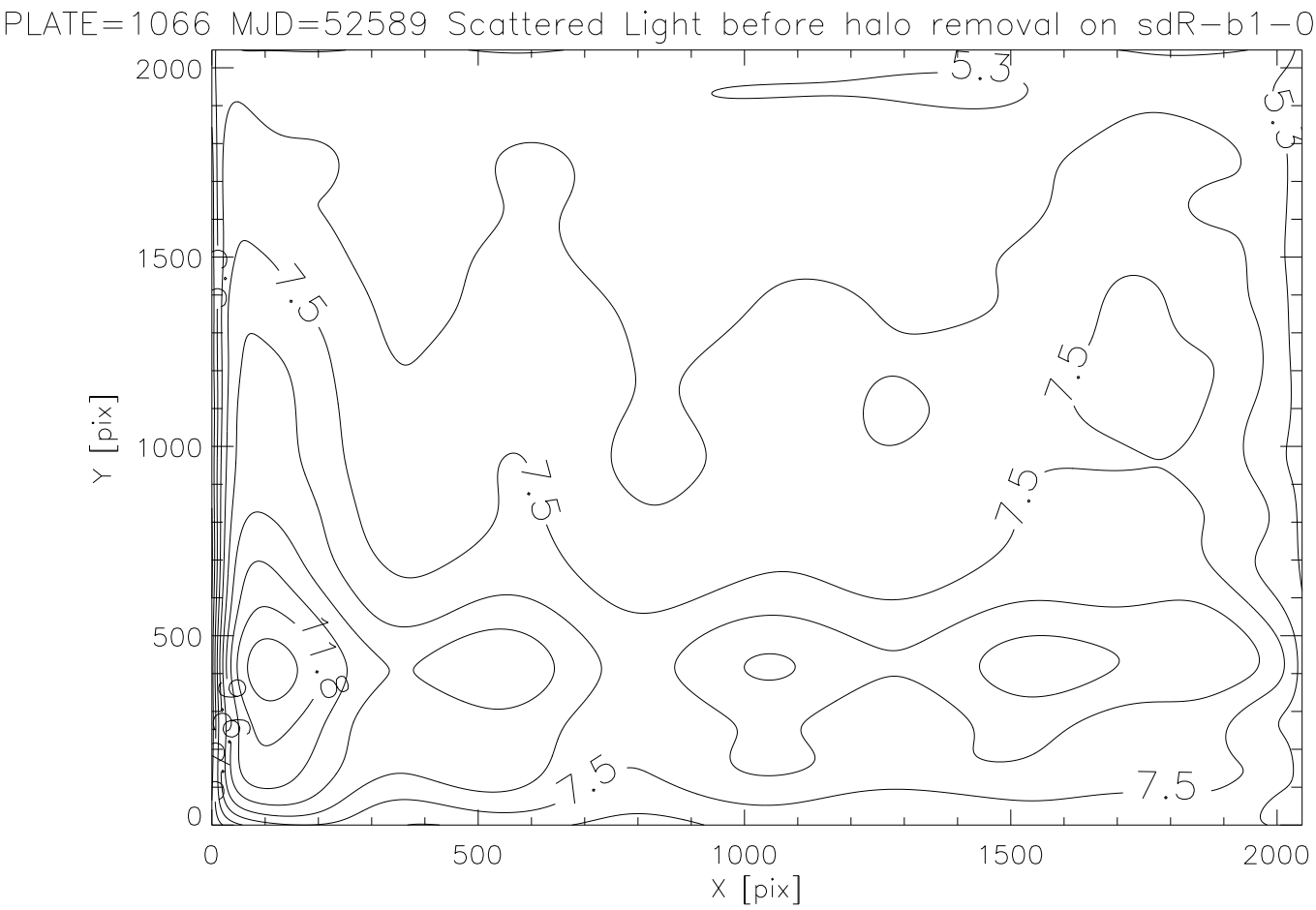

PLATE=1066 MJD=52589 sdR-b1-00016911.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
-1000
5570
5575
5580
5585
5590
λ [A]

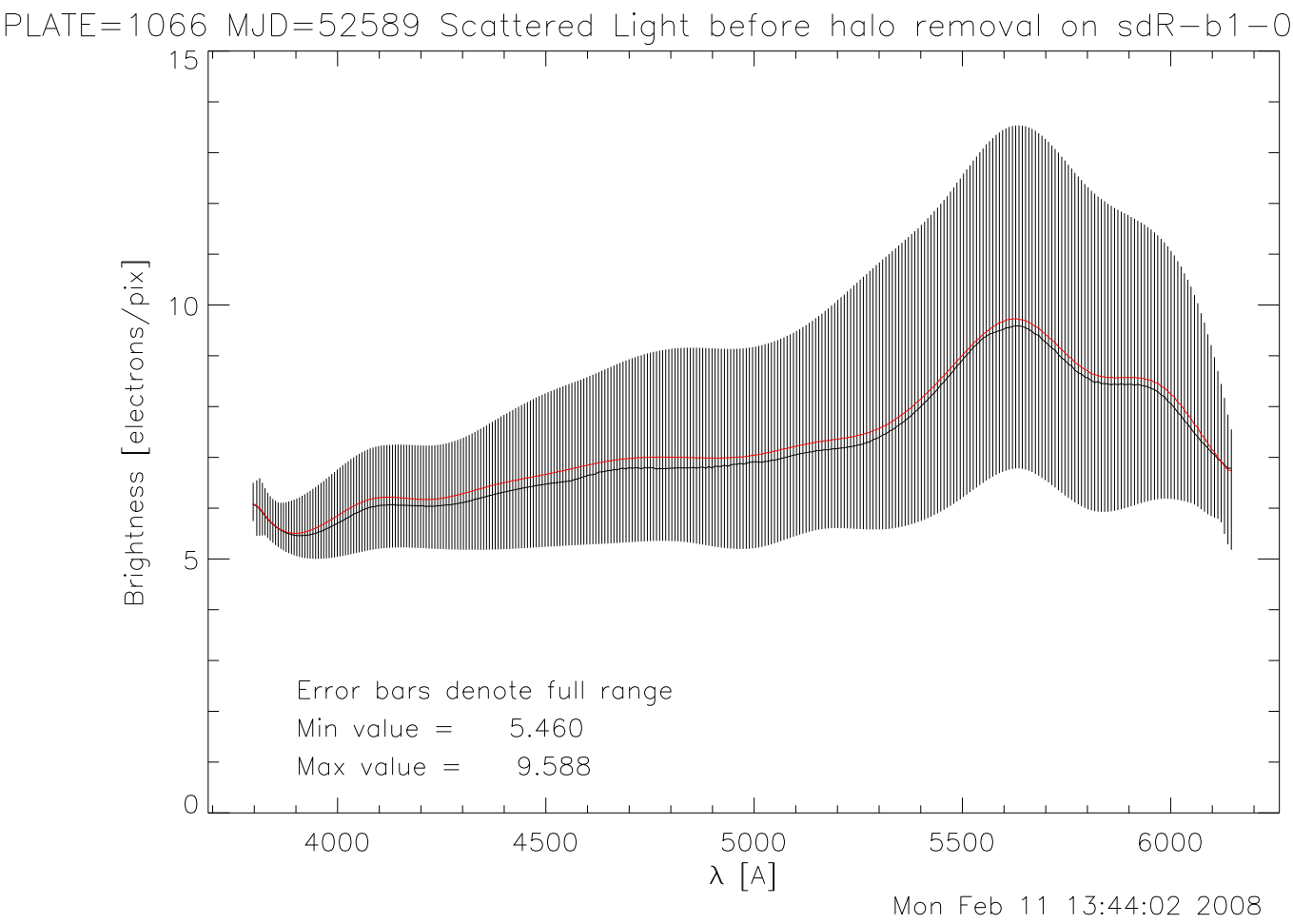

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b1-00016911.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

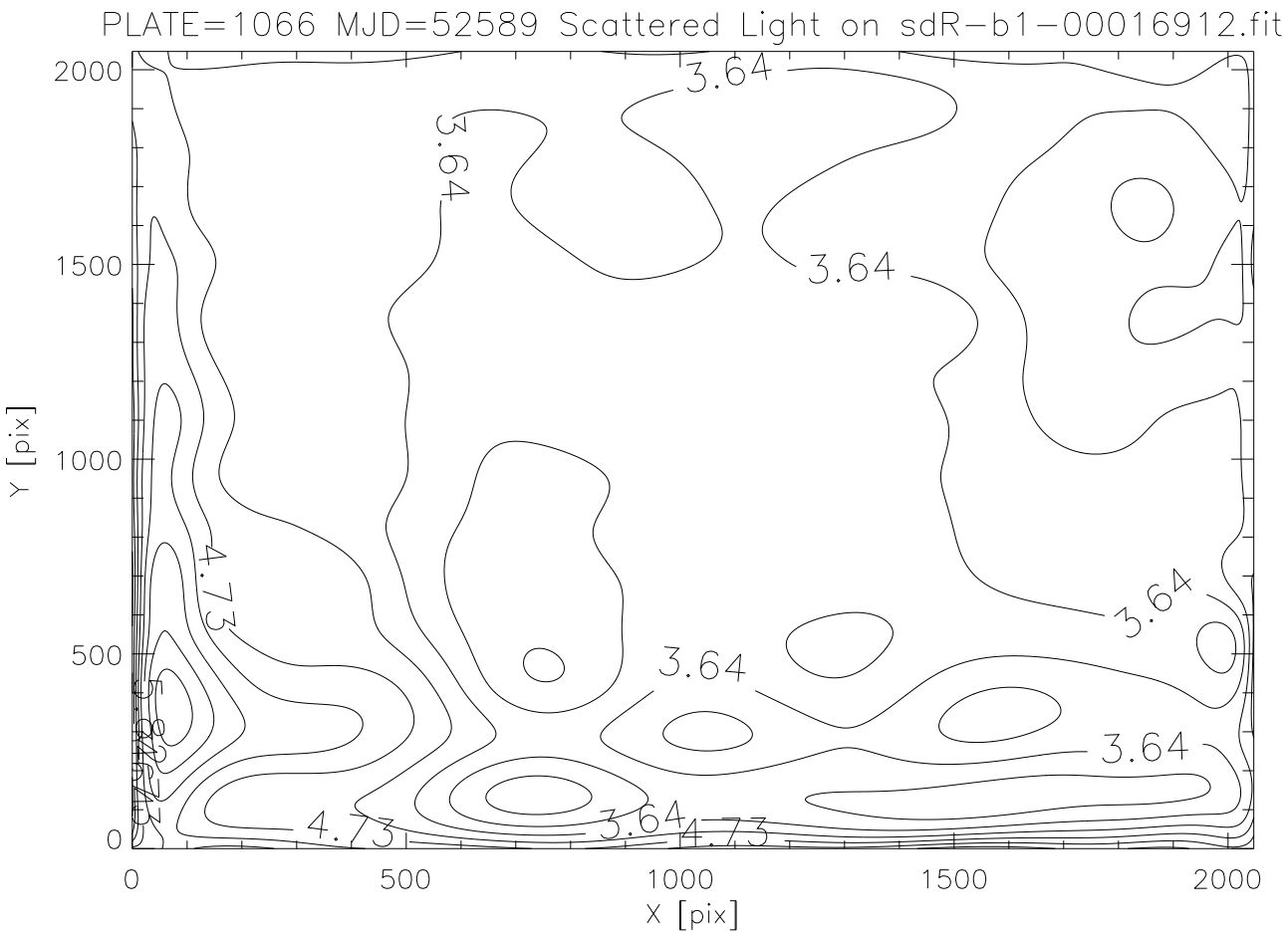

PLATE=1066 MJD=52589 sdR-b1-00016911.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 15.24 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

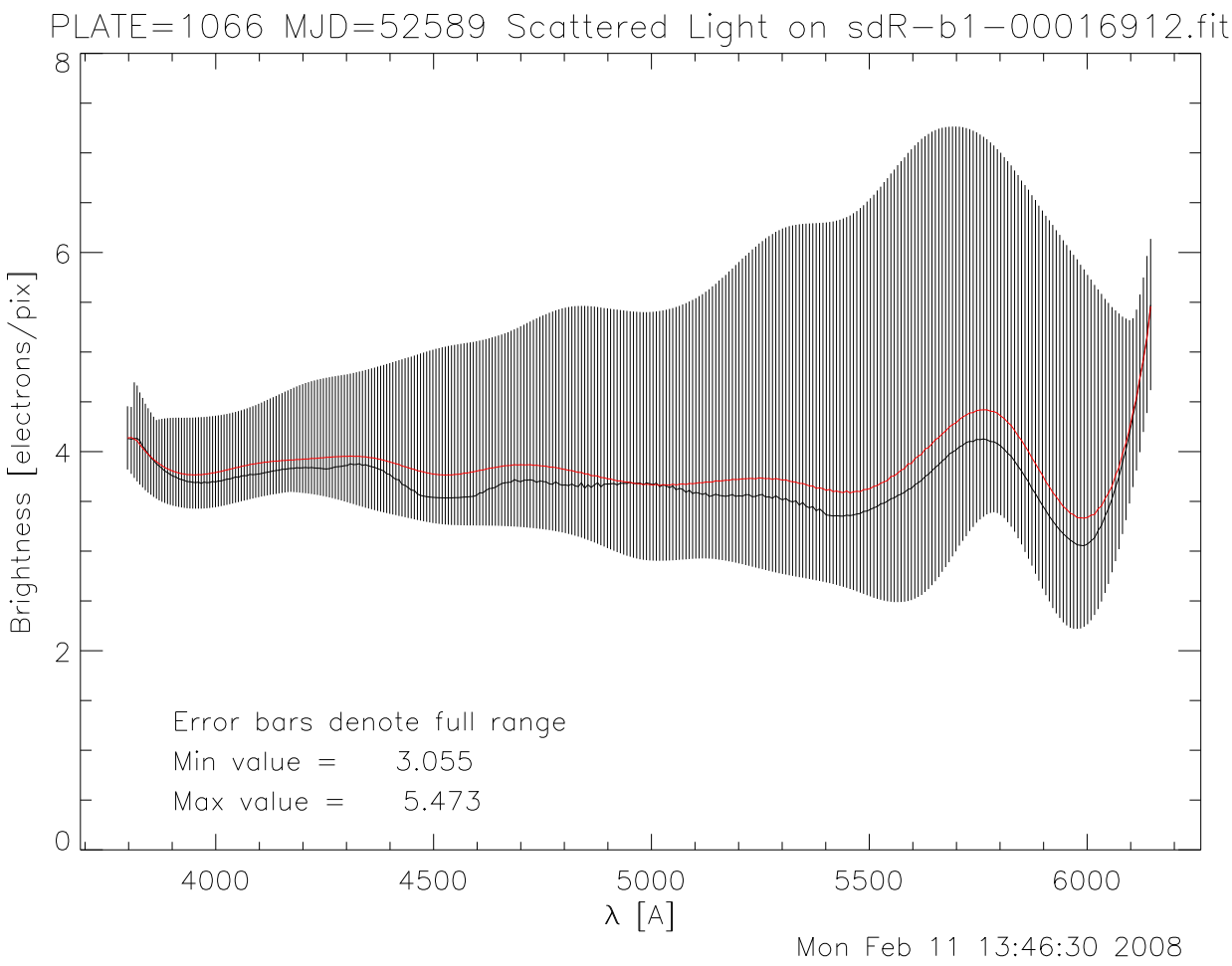

PLATE=1066 MJD=52589 sdR-b1-00016911.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.30 %
Fiber number
Focal Distance [mm]
Airmass

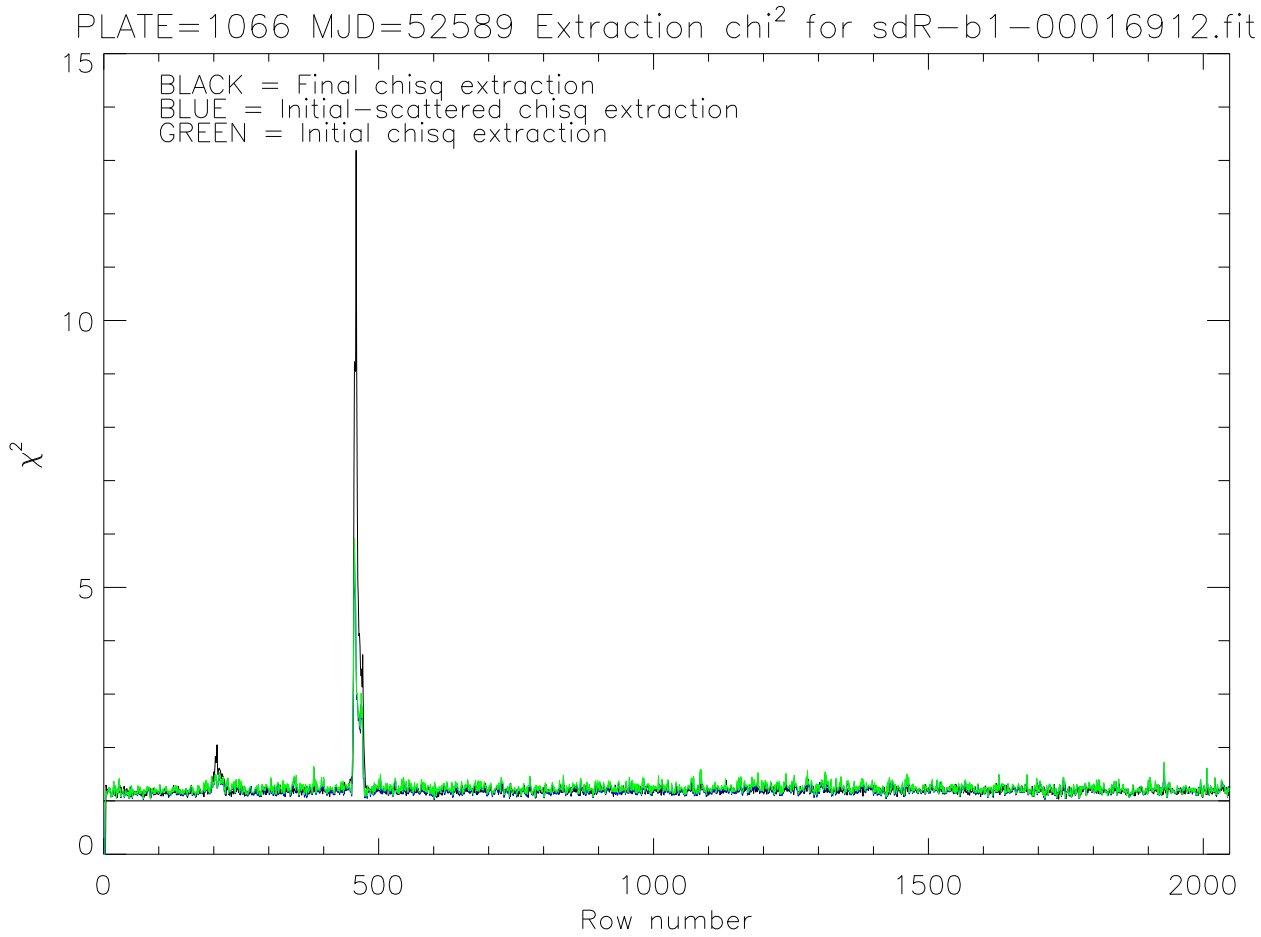

PLATE=1066 MJD=52589 Fiber−Flats for sdR−b1−00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.506
Max value = 1.272
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 13:43:16 2008

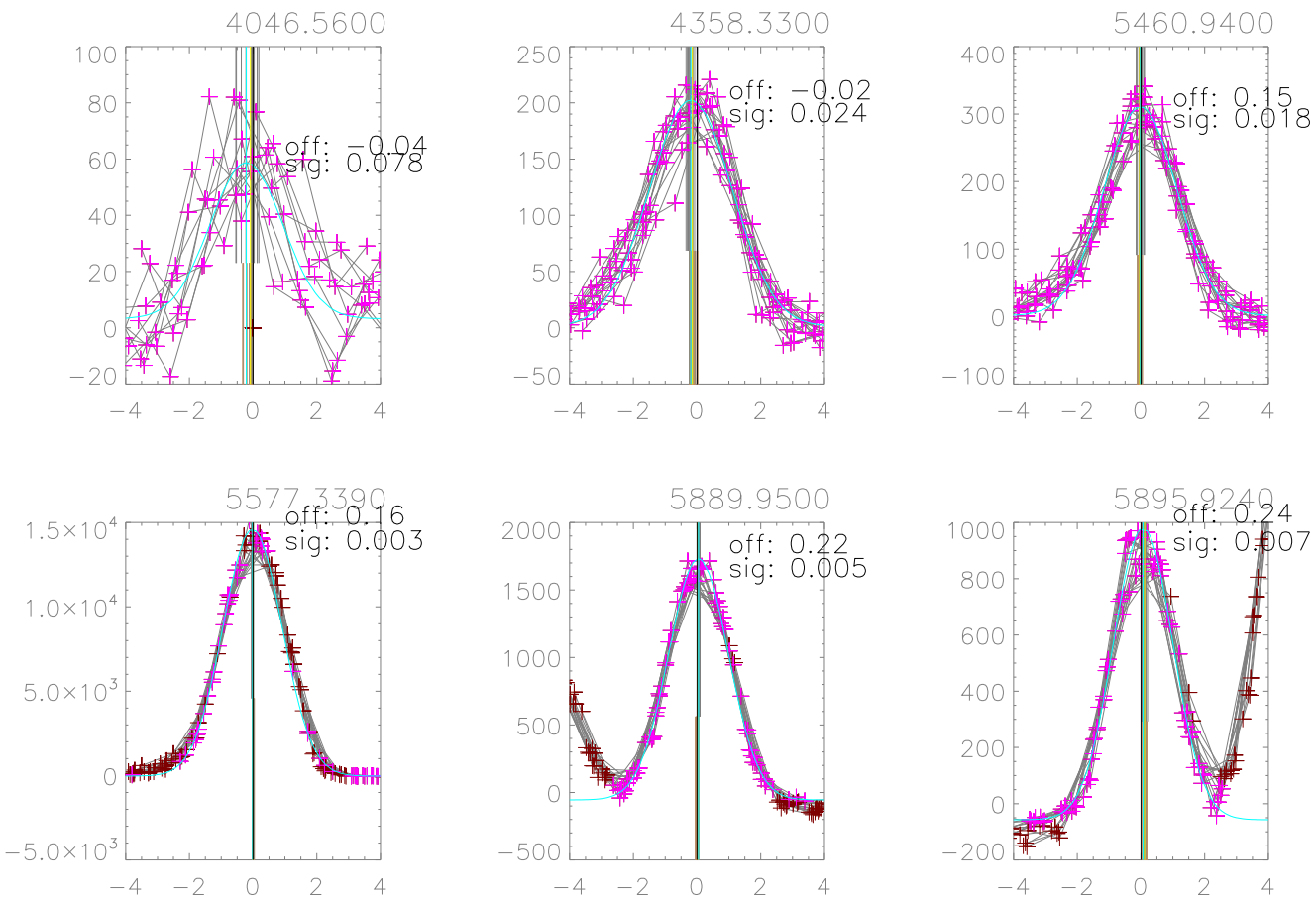

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR−b1−00016912.f
Y [pix]
X [pix]
0
500
1000
1500
2000
5.3
7.5
11.8

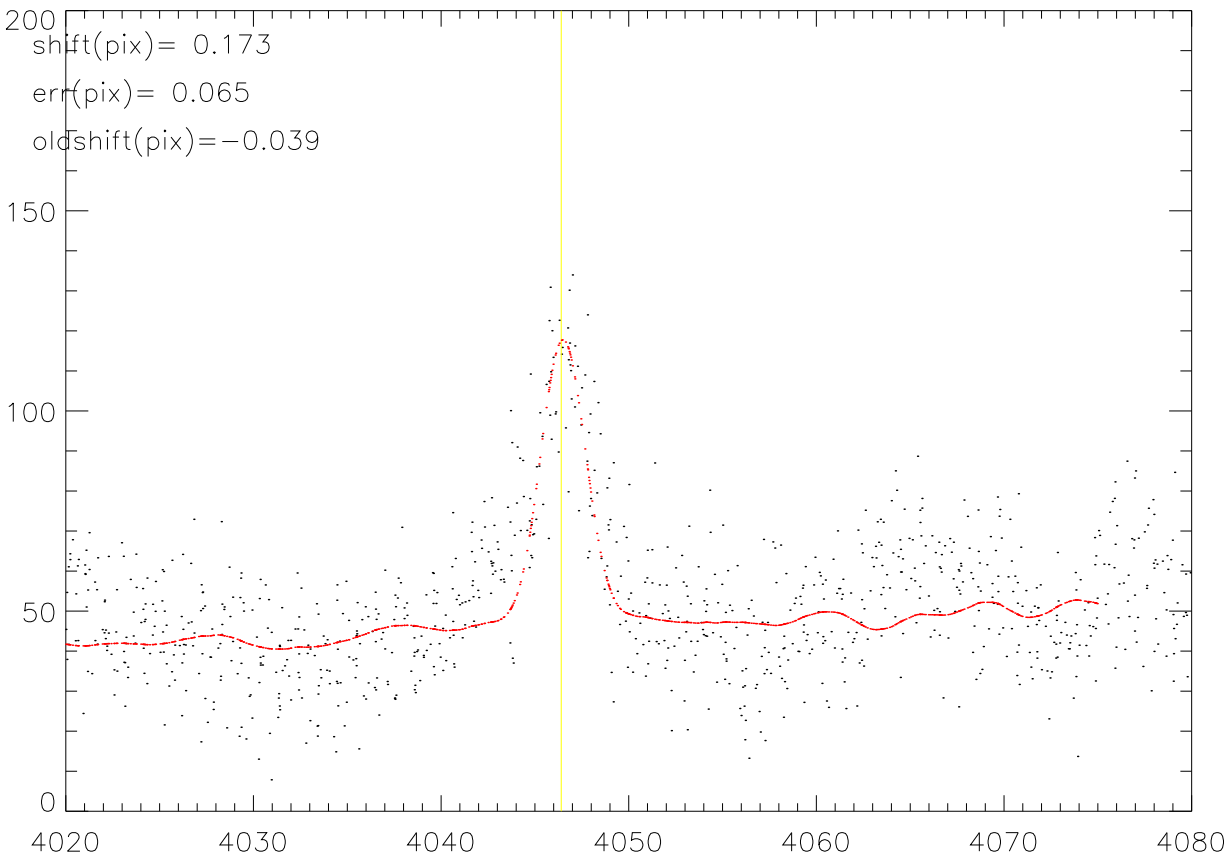

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-b1-00016912.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.460
Max value = 9.588
Mon Feb 11 13:44:02 2008

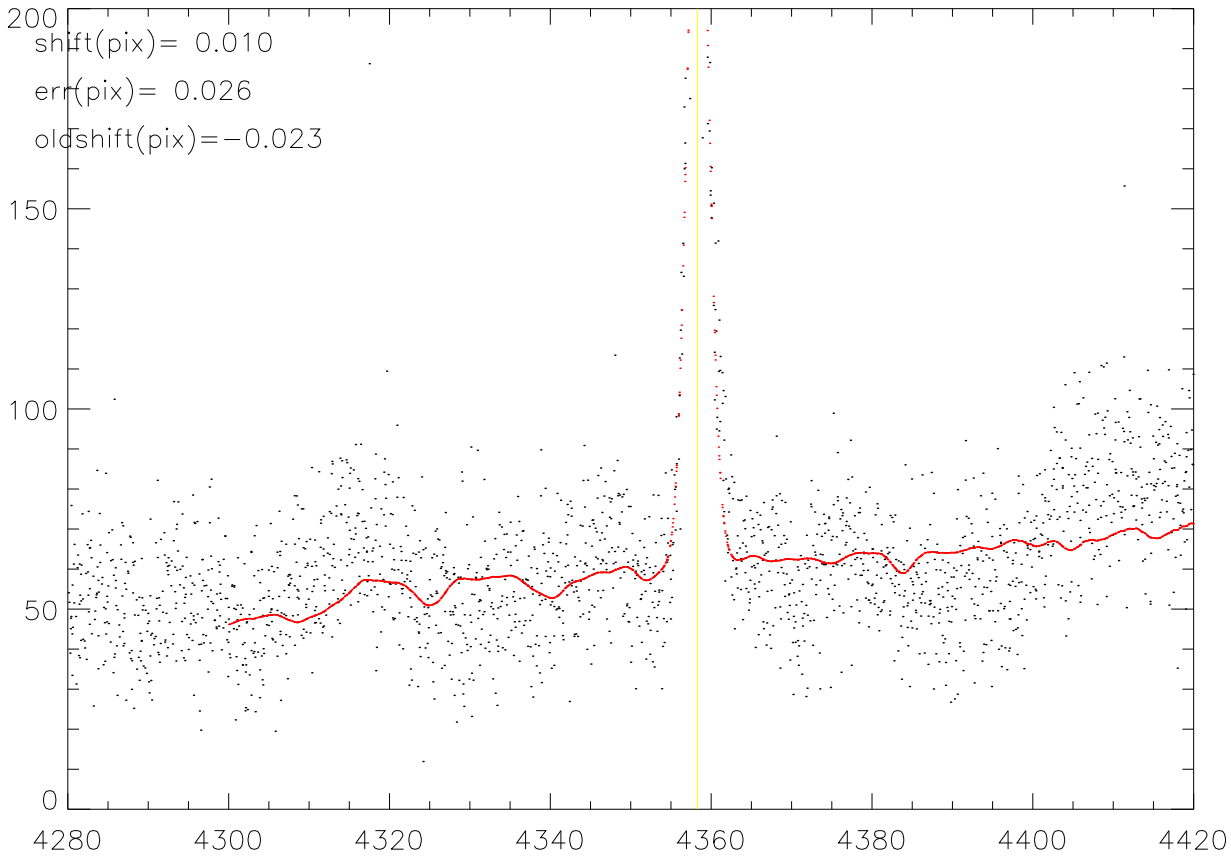

PLATE=1066 MJD=52589 Scattered Light on sdR-b1-00016912.fit
3.64
3.64
3.64
3.64
3.64
3.64
4.73
4.73
4.73
Y [pix]
X [pix]
0
500
1000
1500
2000

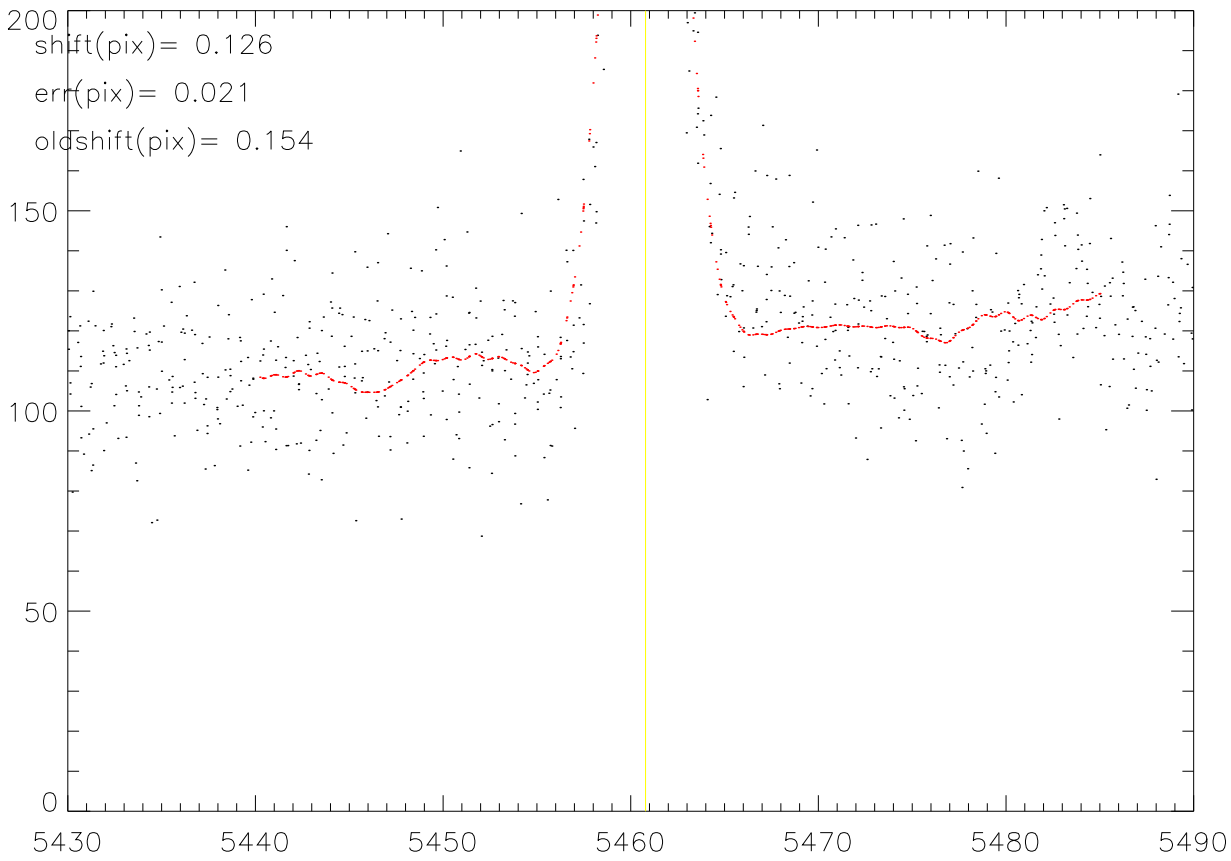

PLATE=1066 MJD=52589 Scattered Light on sdR-b1-00016912.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.055
Max value = 5.473
Mon Feb 11 13:46:30 2008

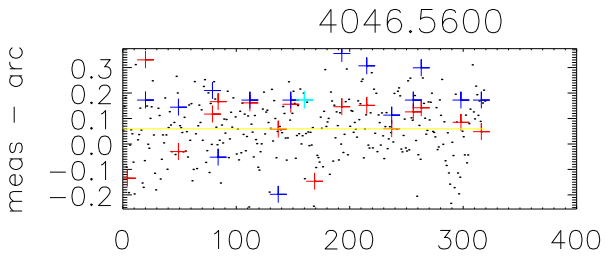

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-b1-00016912.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
0
500
1000
1500
2000
Row number

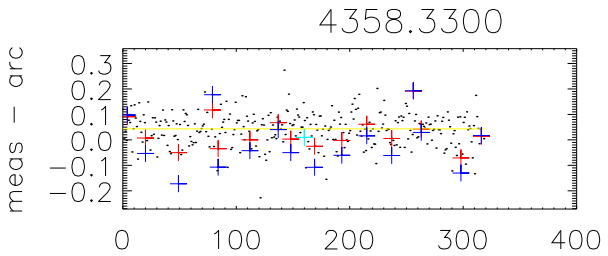

4046.5600
off: −0.04
sig: 0.078
4358.3300
off: −0.02
sig: 0.024
5460.9400
off: 0.15
sig: 0.018
5577.3390
off: 0.16
sig: 0.003
5889.9500
off: 0.22
sig: 0.005
5895.9240
off: 0.24
sig: 0.007

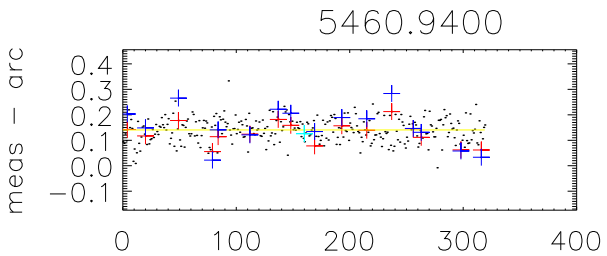

shift(pix)= 0.173
err(pix)= 0.065
oldshift(pix)=-0.039
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

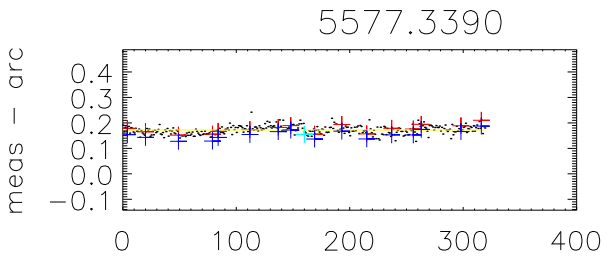

shift(pix)= 0.010
err(pix)= 0.026
oldshift(pix)=−0.023
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

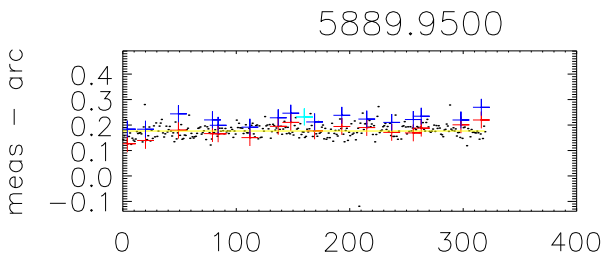

shift(pix)= 0.126
err(pix)= 0.021
oldshift(pix)= 0.154
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

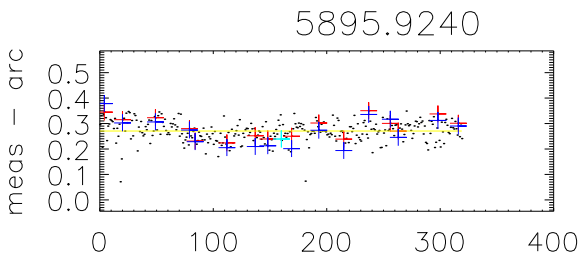

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

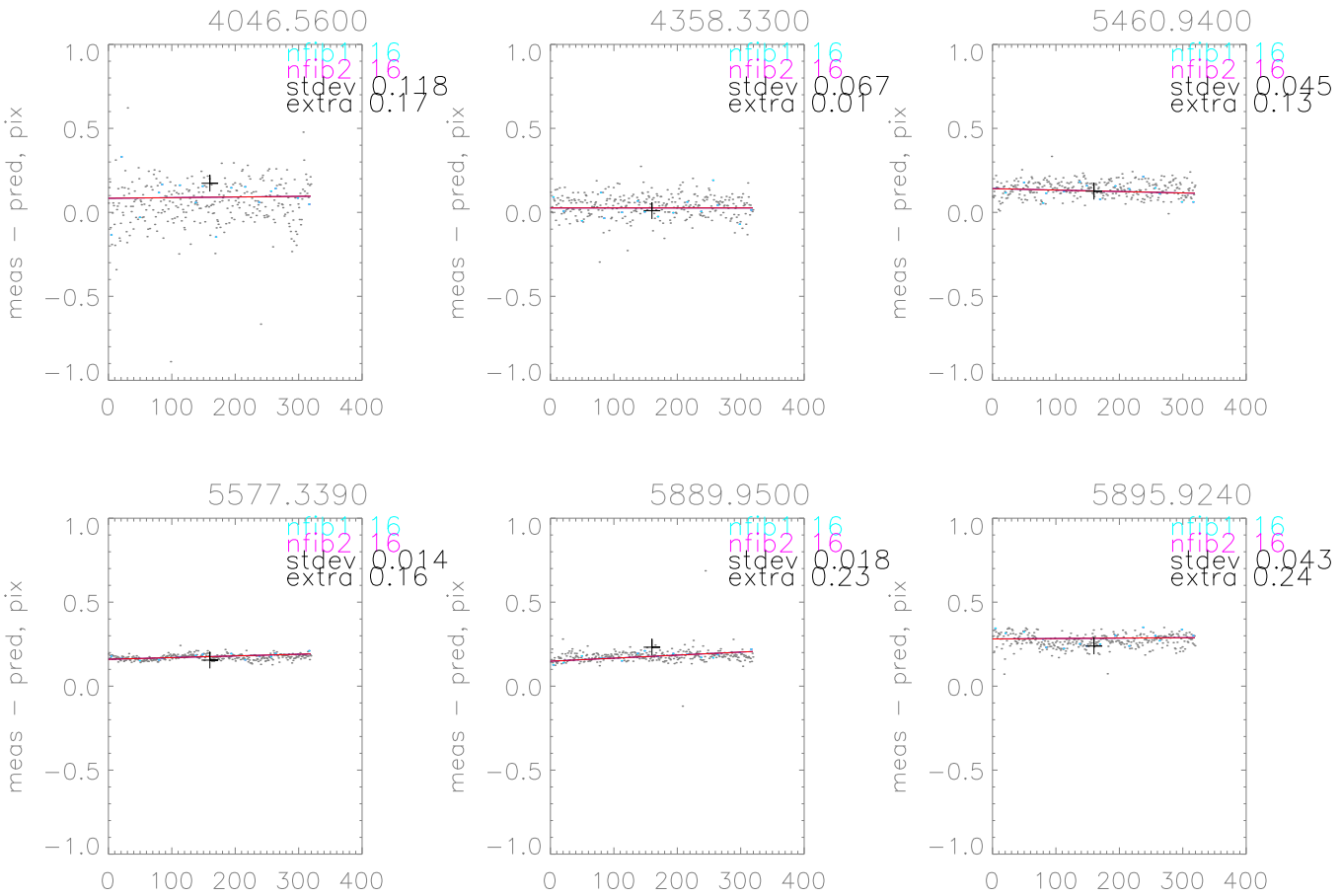

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

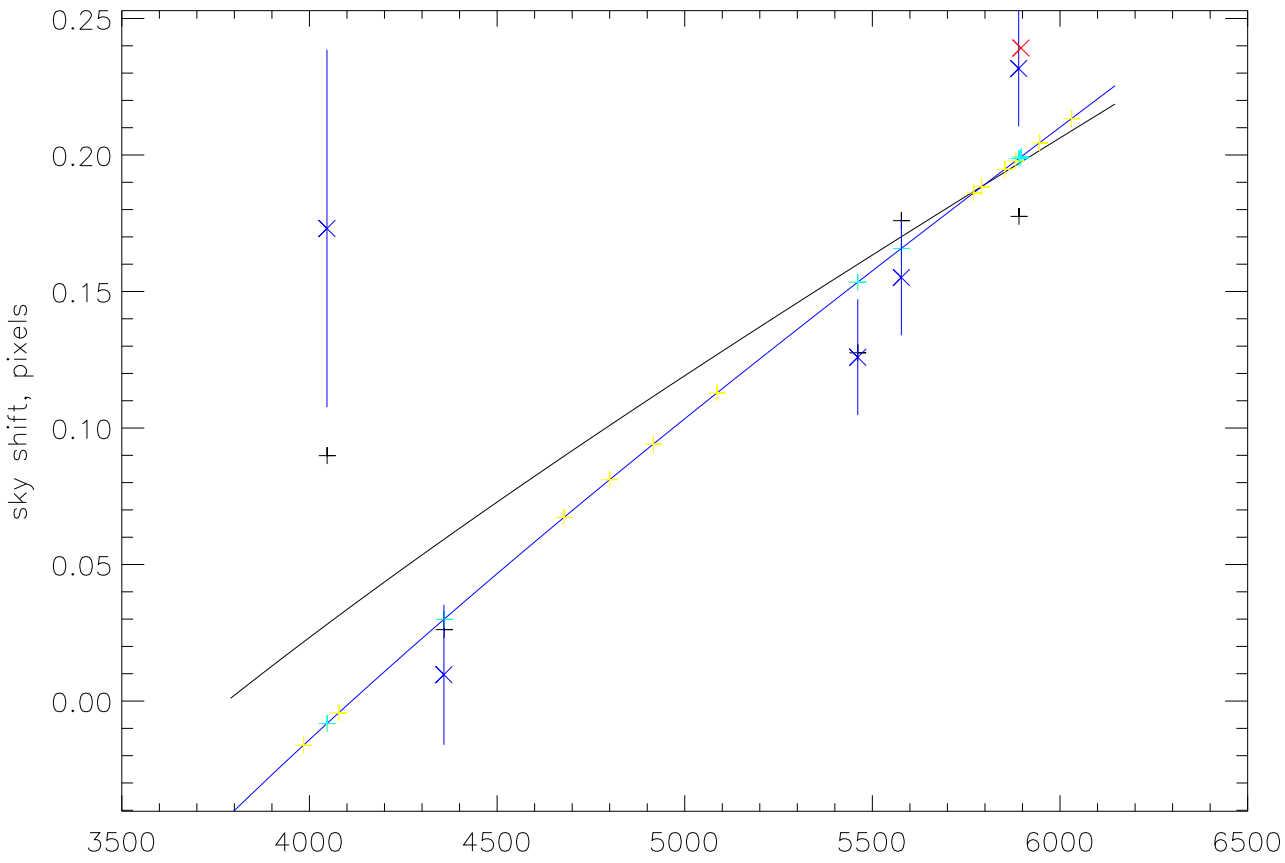

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

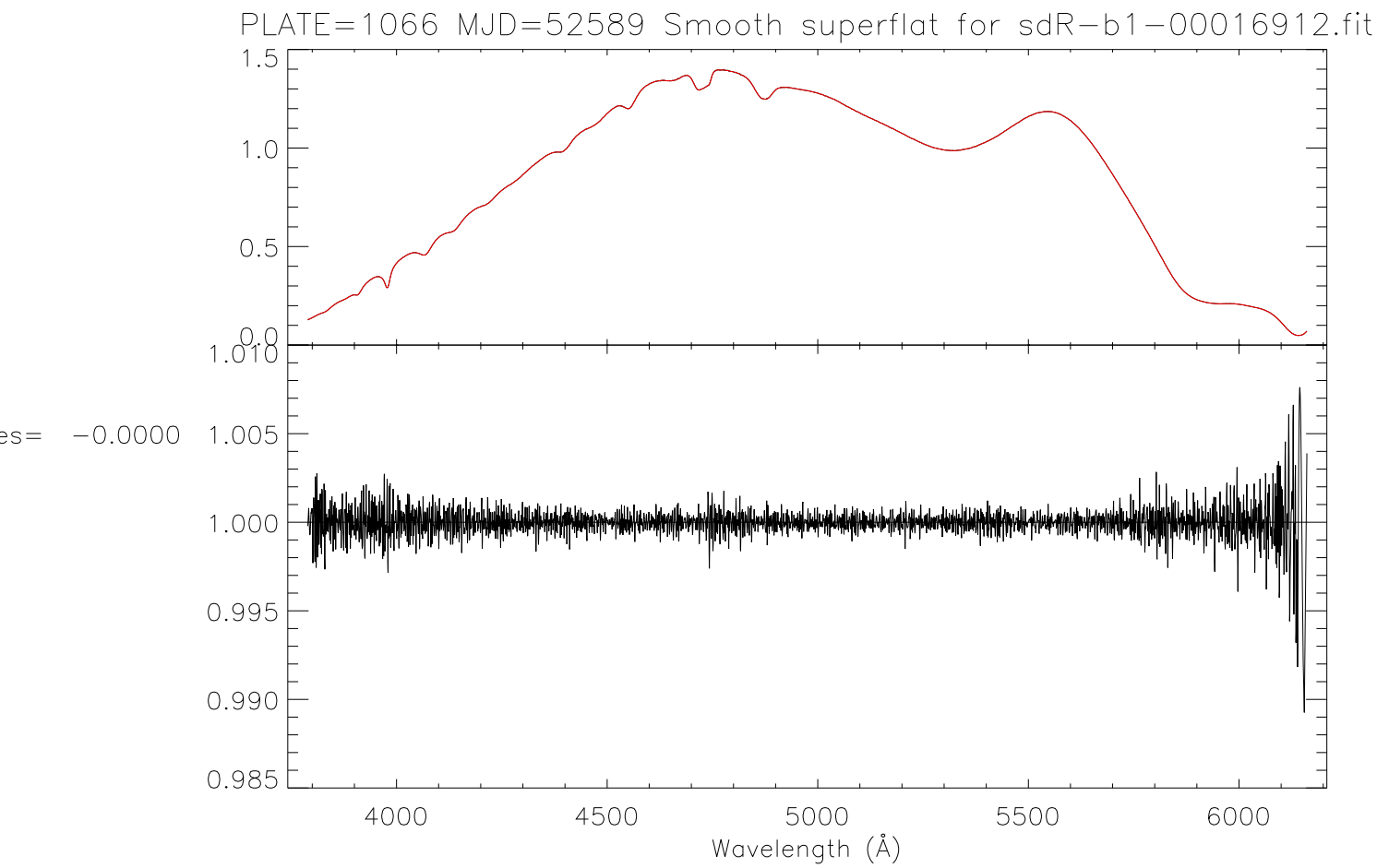

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

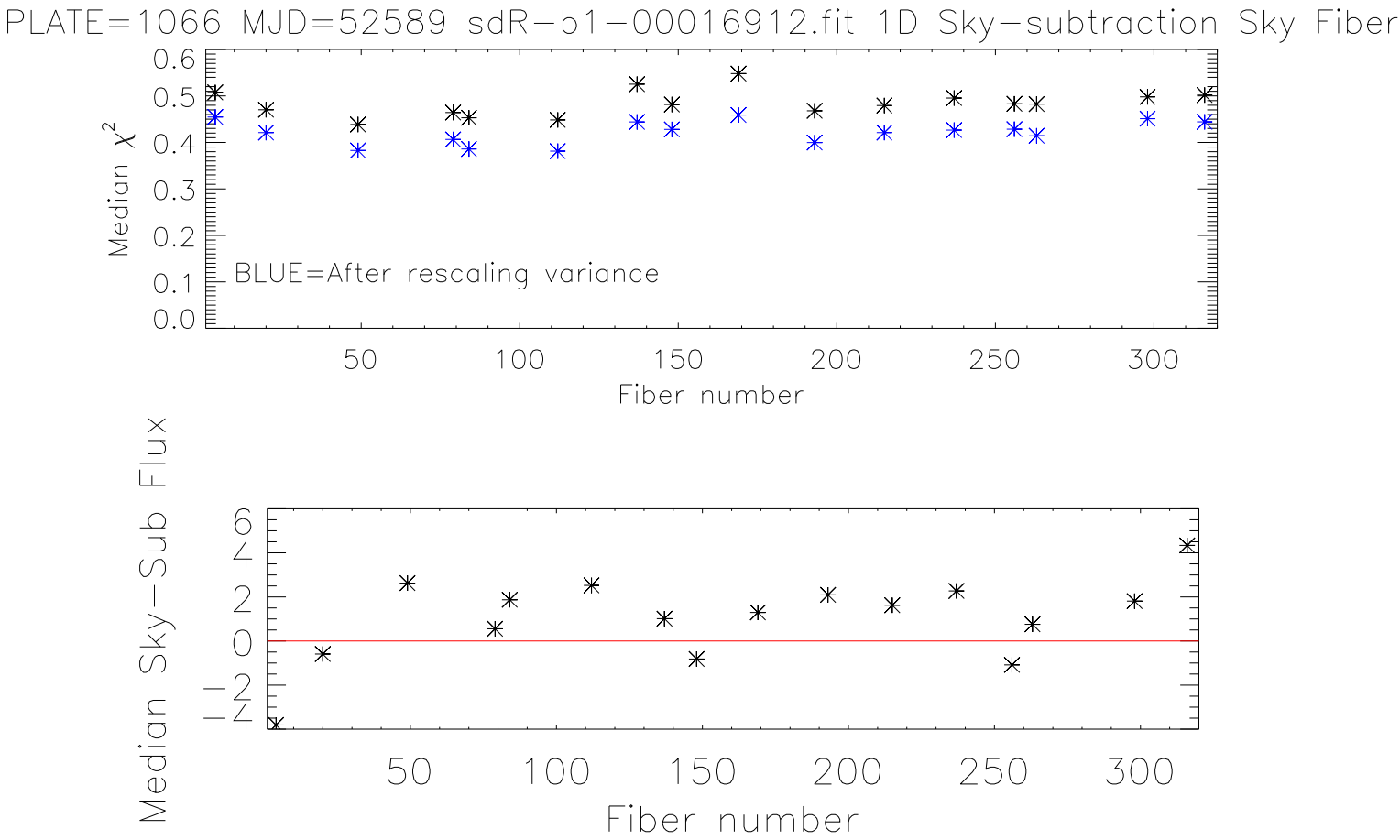

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

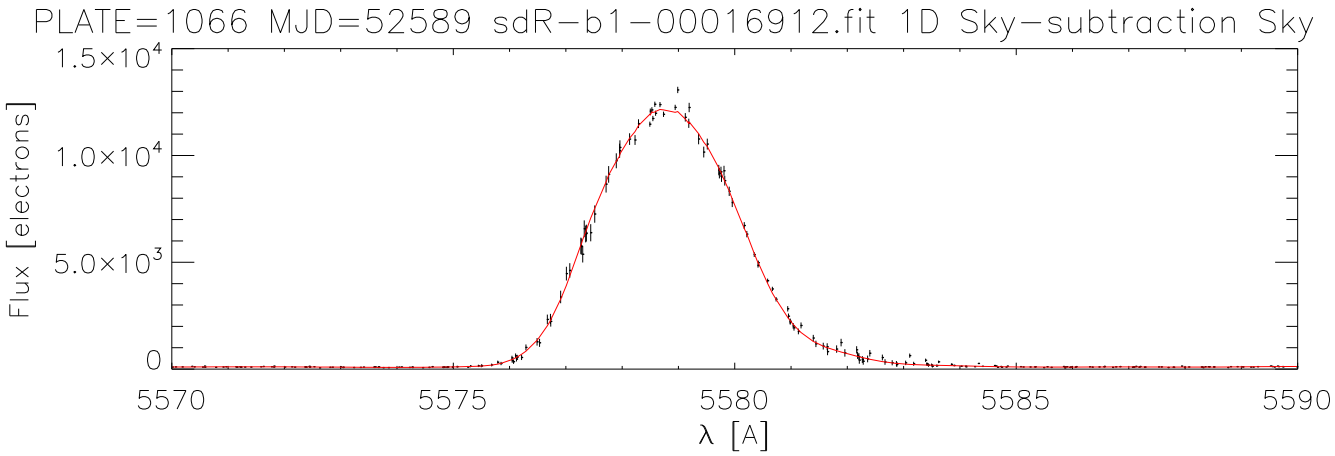

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

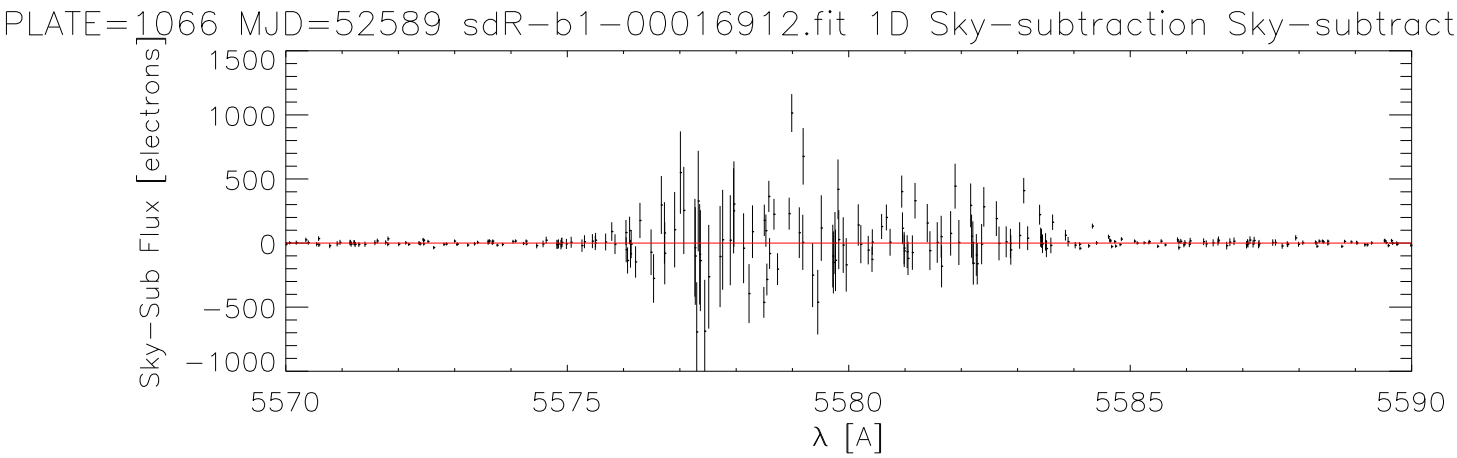

4046.5600
nfib1 16
nfib2 16
stdev 0.118
extra 0.17
4358.3300
nfib1 16
nfib2 16
stdev 0.067
extra 0.01
5460.9400
nfib1 16
nfib2 16
stdev 0.045
extra 0.13
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra 0.16
5889.9500
nfib1 16
nfib2 16
stdev 0.018
extra 0.23
5895.9240
nfib1 16
nfib2 16
stdev 0.043
extra 0.24
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

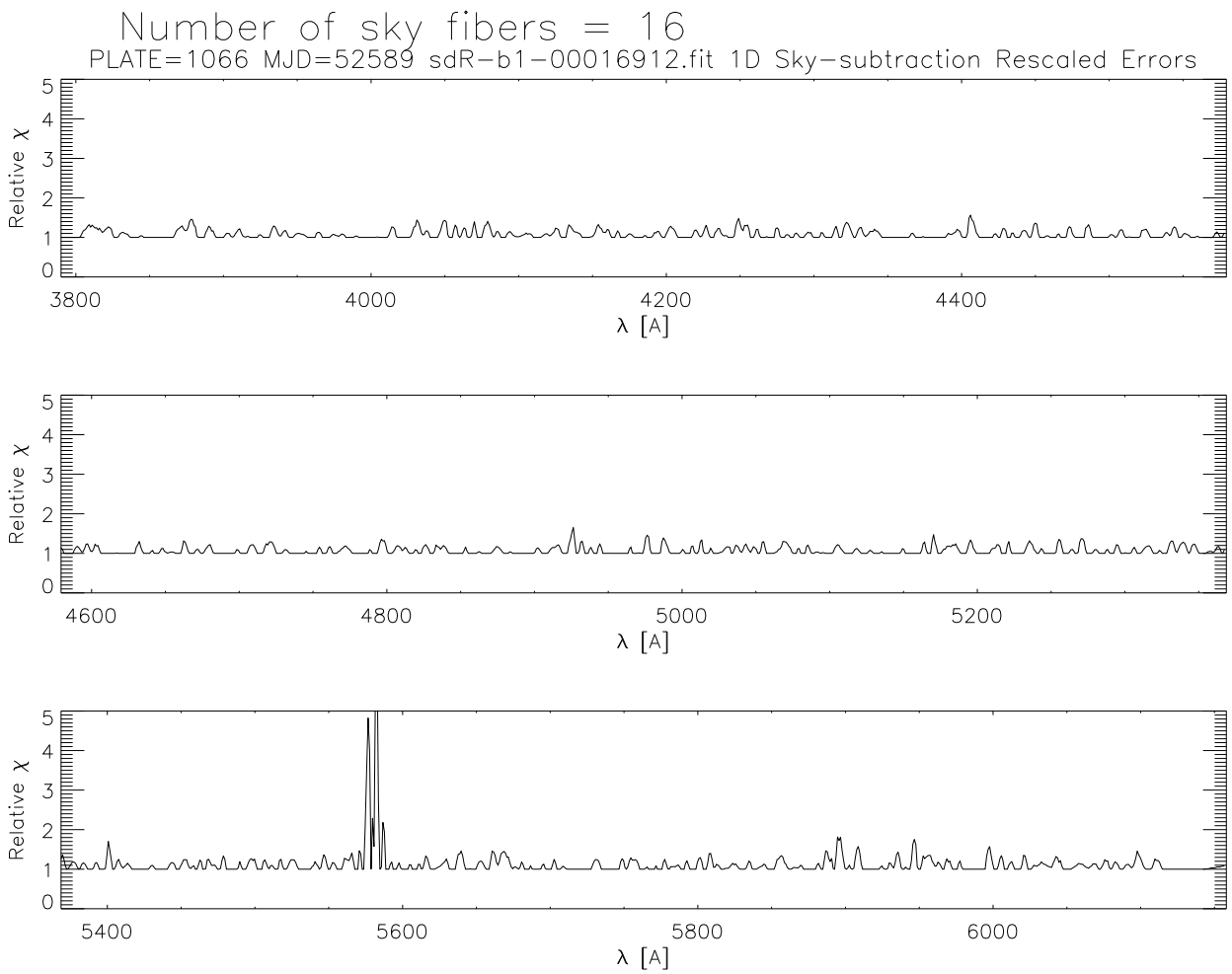

0.25
0.20
0.15
0.10
0.05
0.00
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

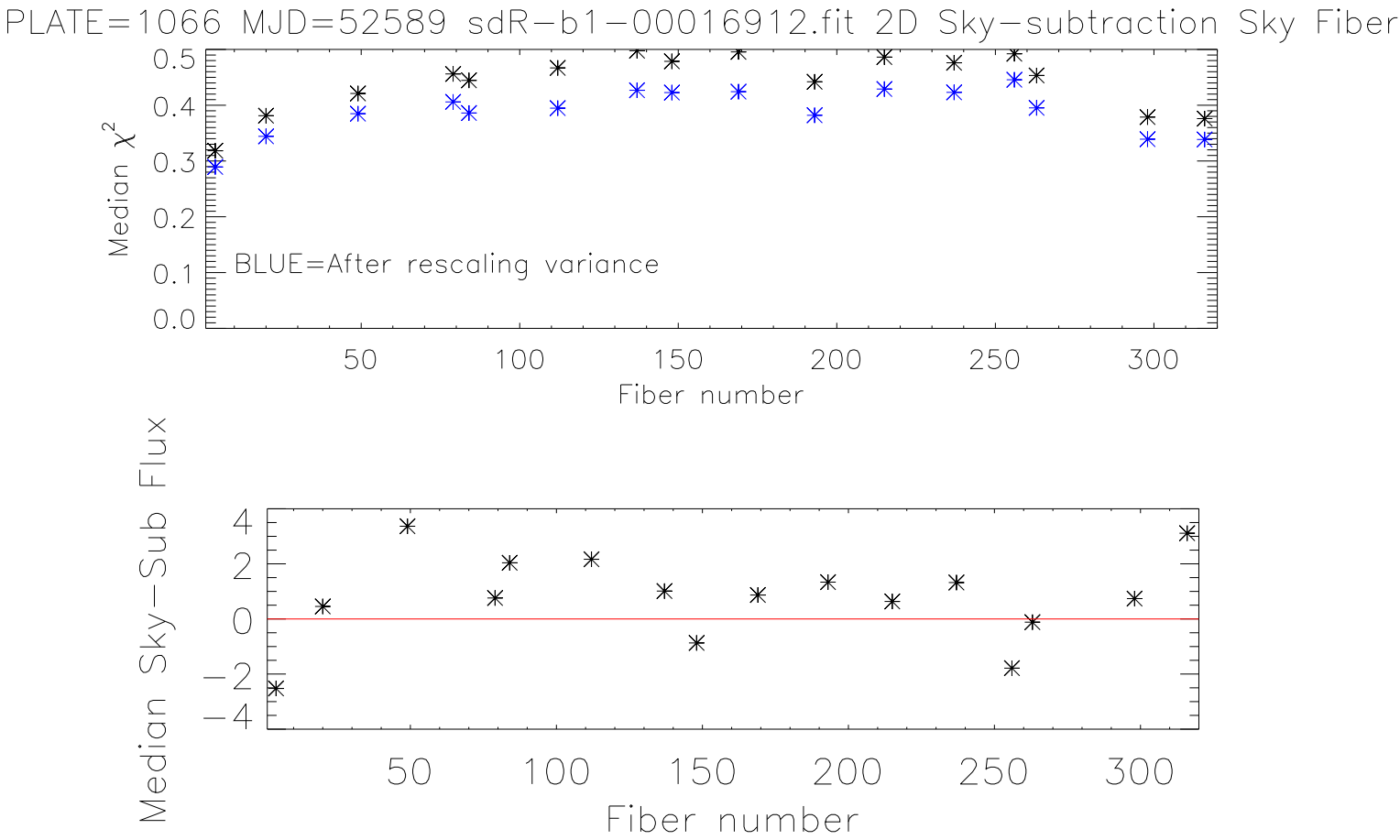

PLATE=1066 MJD=52589 Smooth superflat for sdR-b1-00016912.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

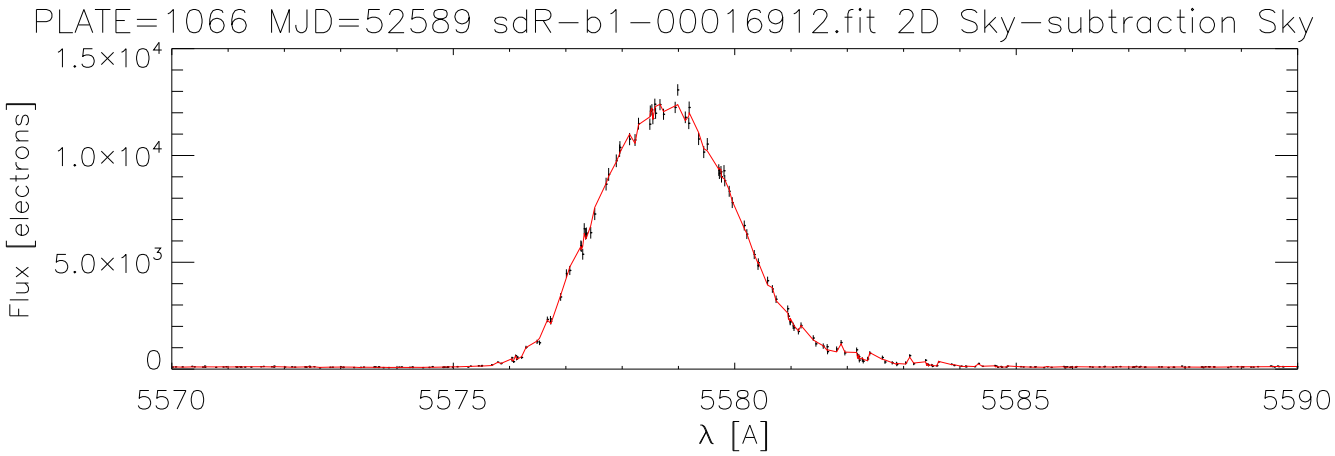

PLATE=1066 MJD=52589 sdR-b1-00016912.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

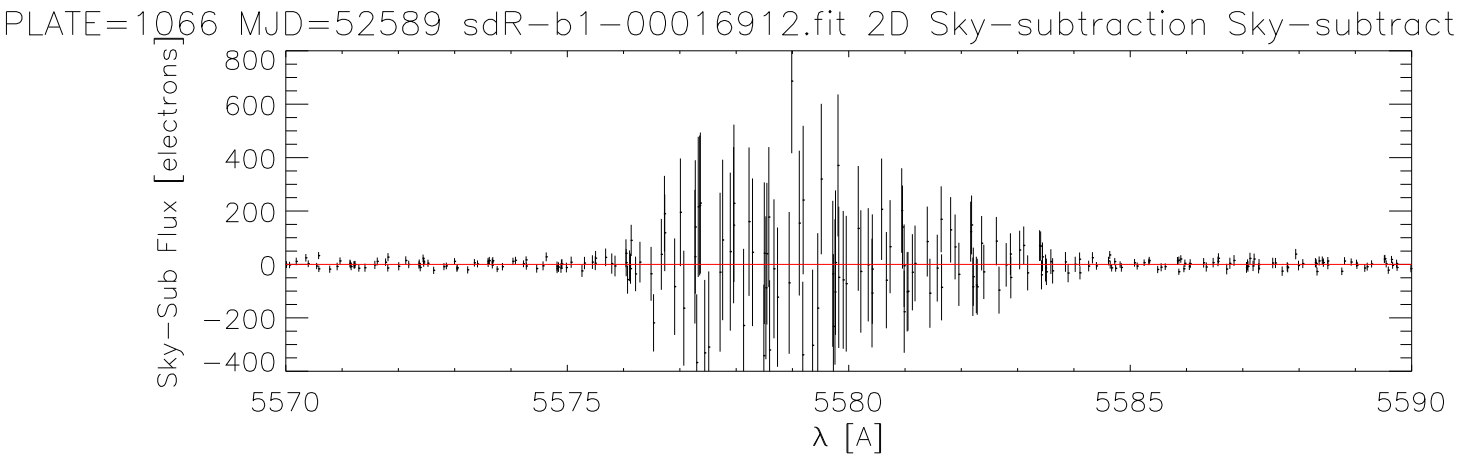

PLATE=1066 MJD=52589 sdR-b1-00016912.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

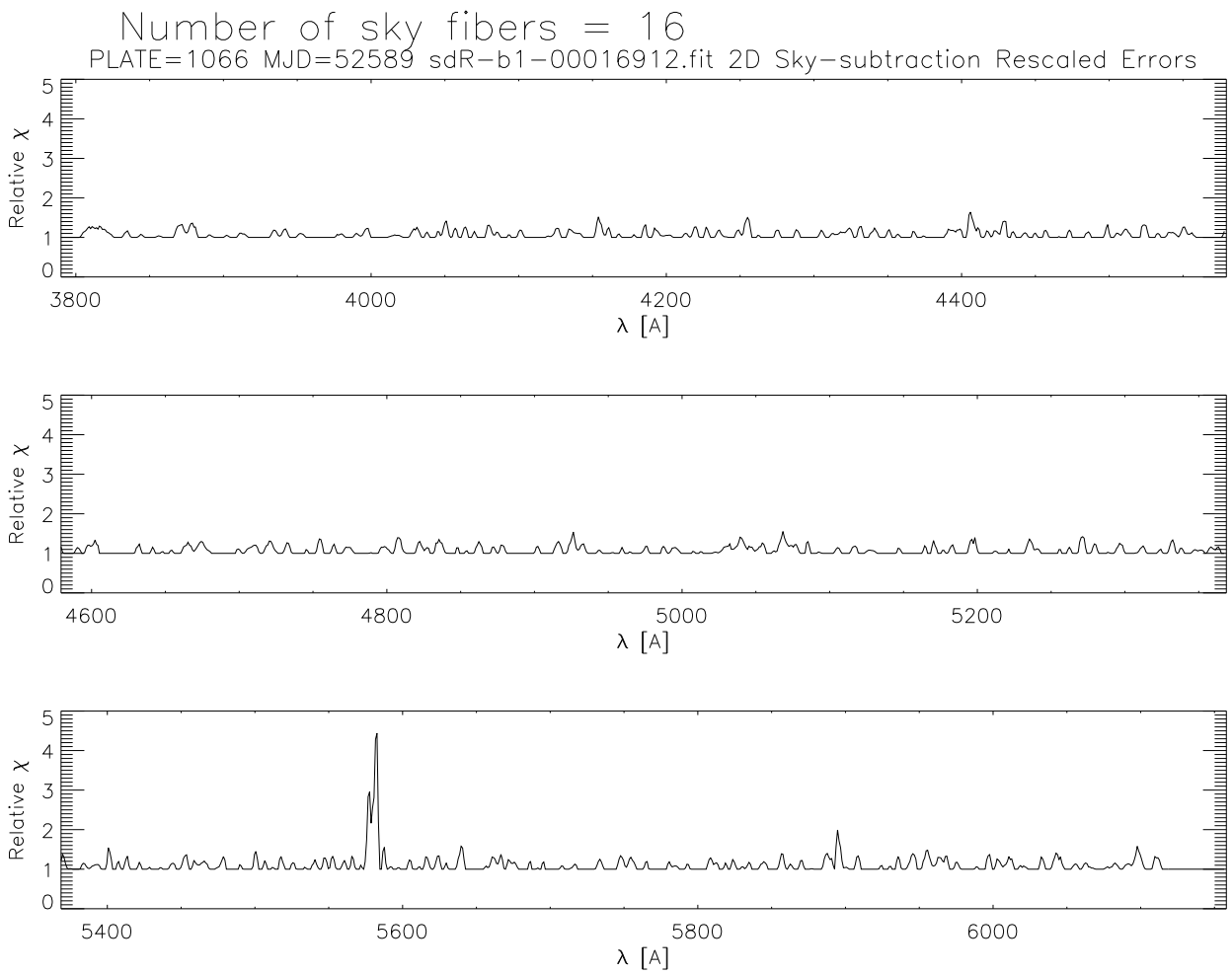

PLATE=1066 MJD=52589 sdR-b1-00016912.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

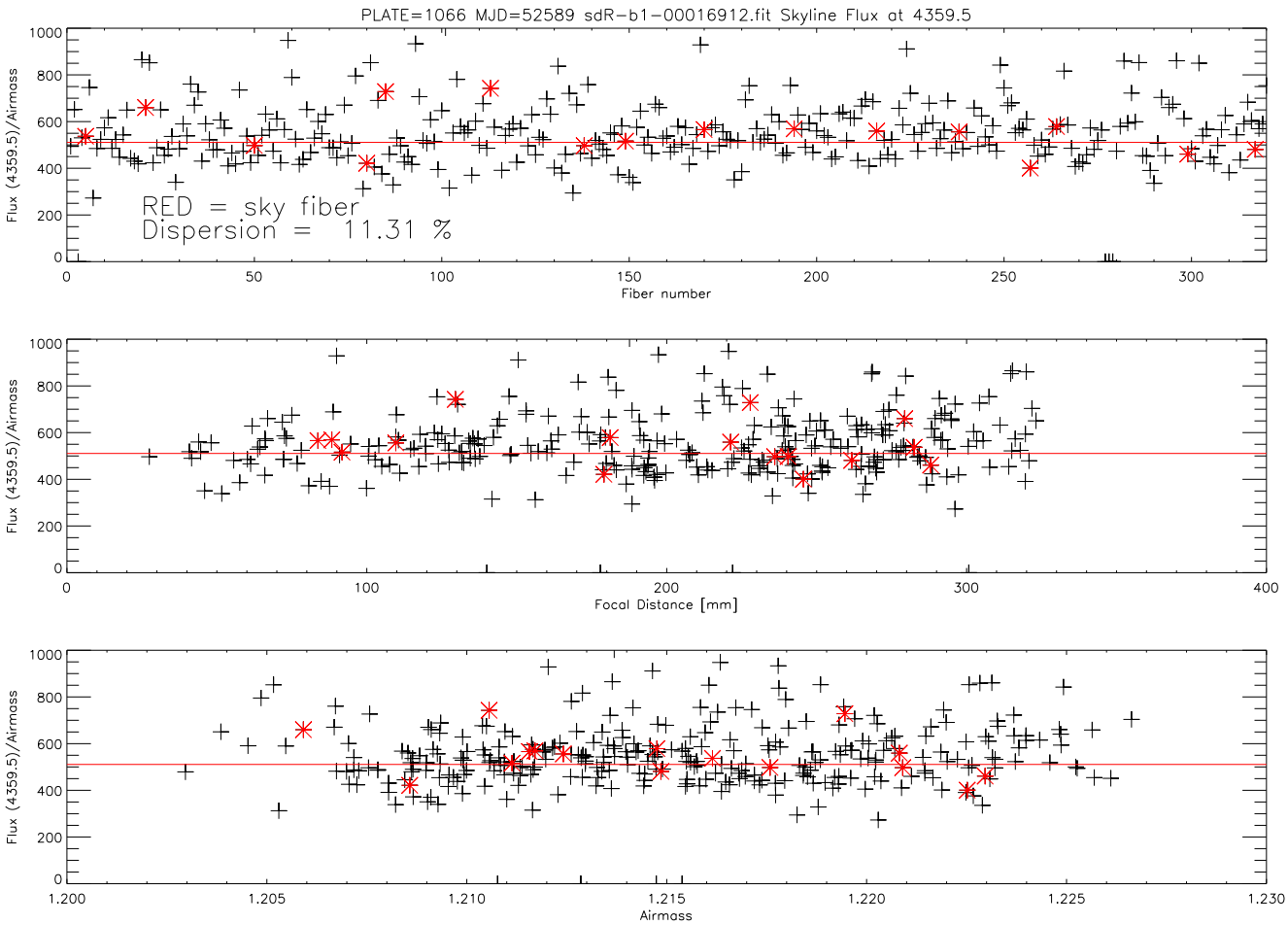

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b1-00016912.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

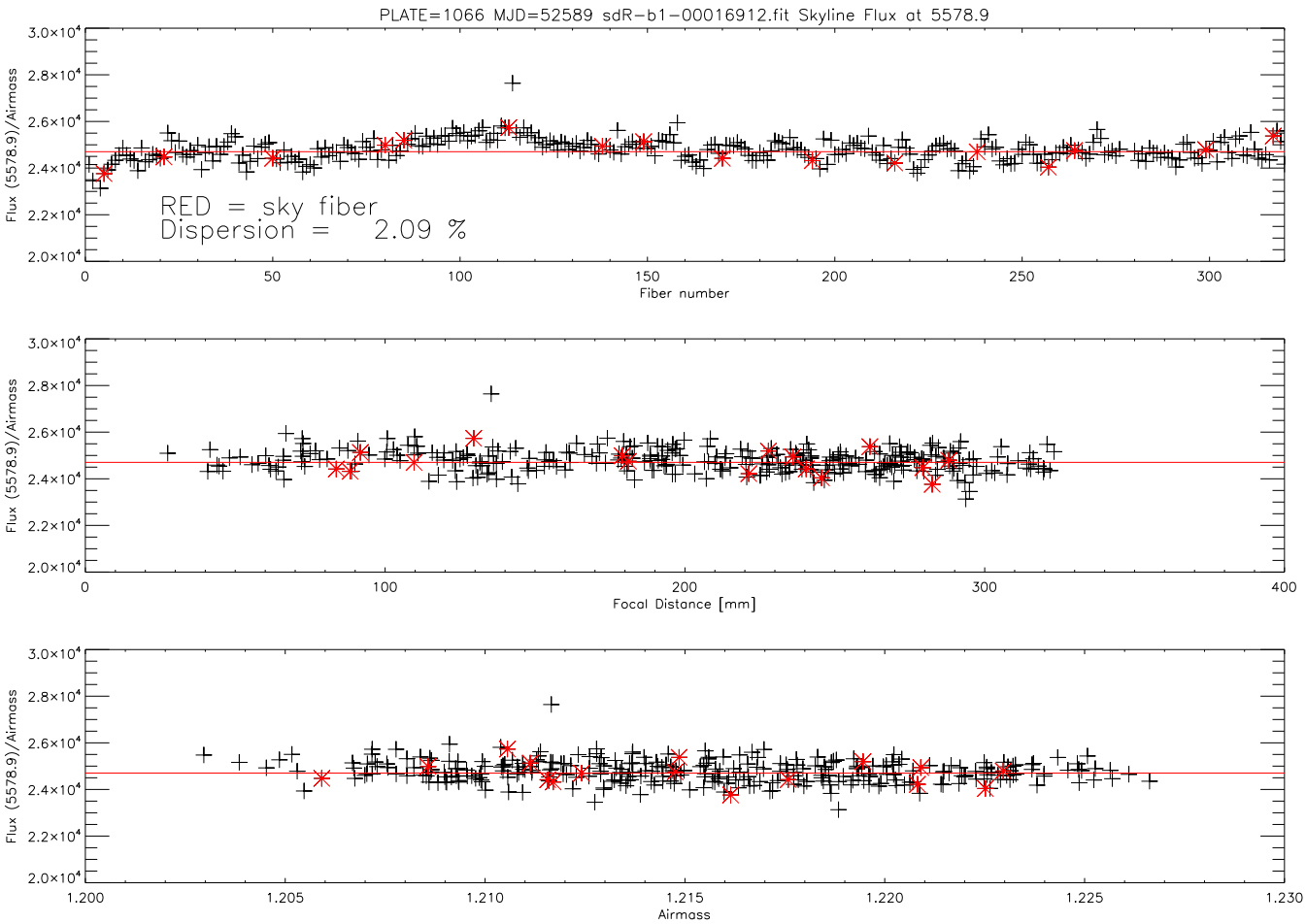

PLATE=1066 MJD=52589 sdR-b1-00016912.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

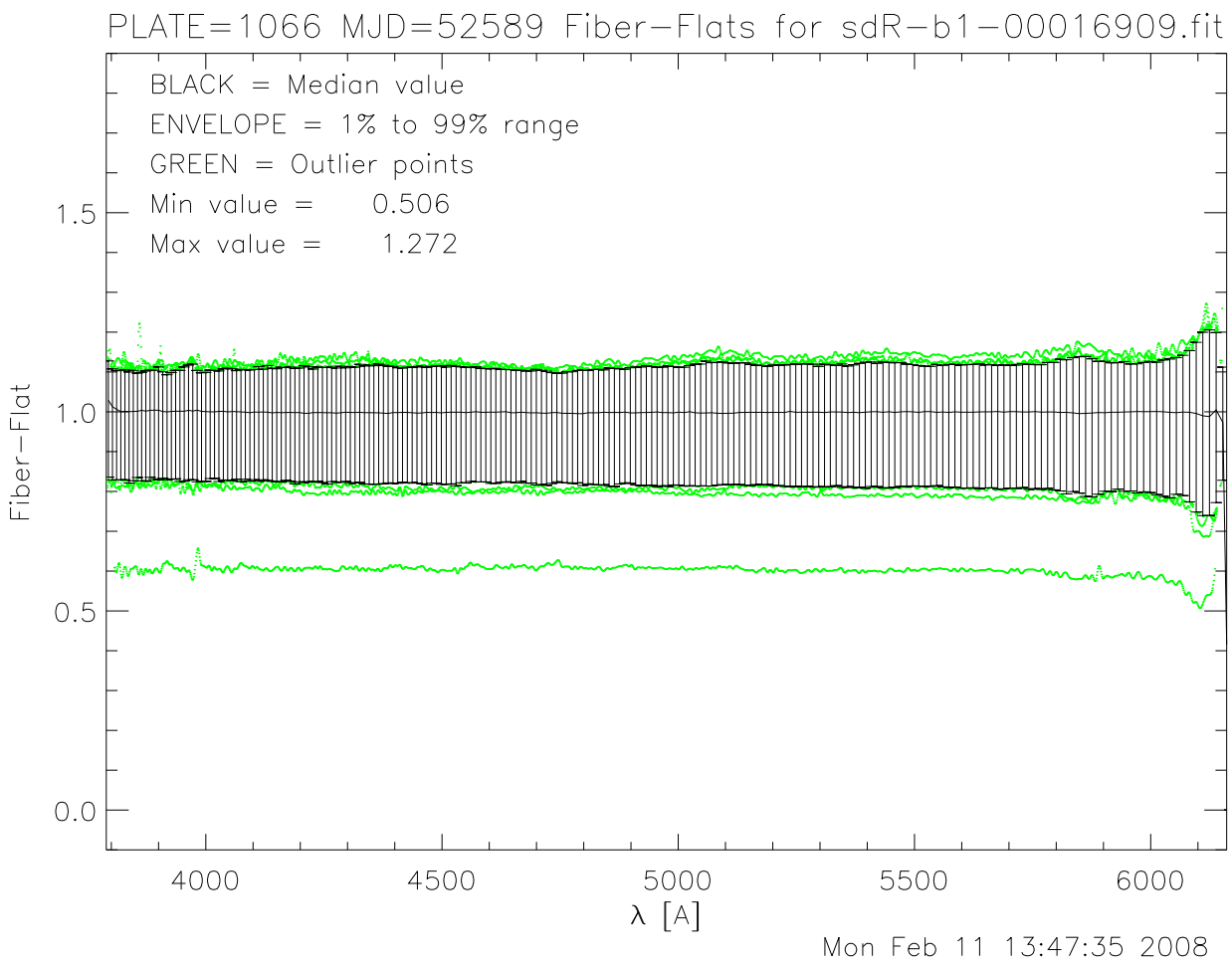

PLATE=1066 MJD=52589 sdR-b1-00016912.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

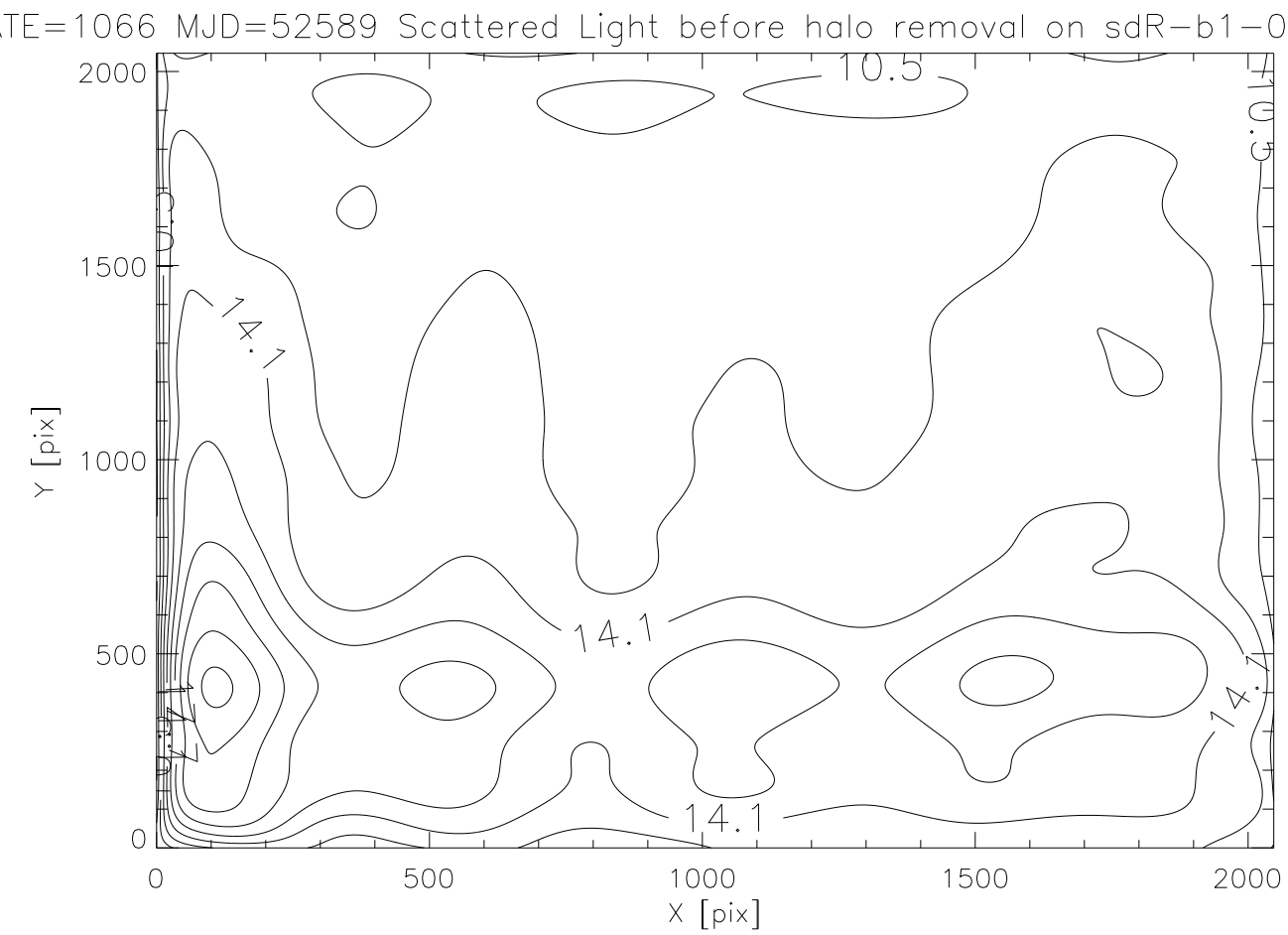

PLATE=1066 MJD=52589 sdR-b1-00016912.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

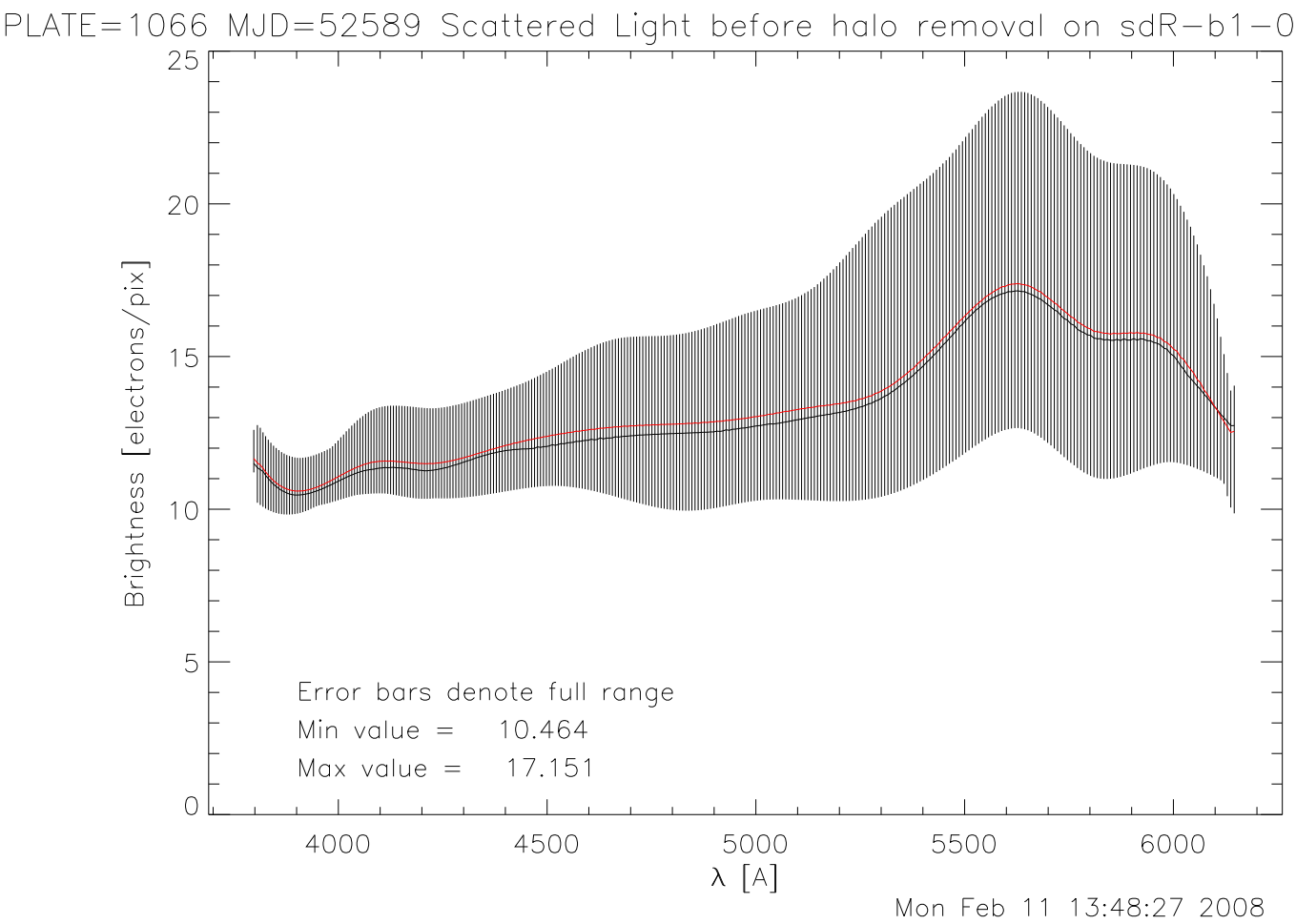

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b1-00016912.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

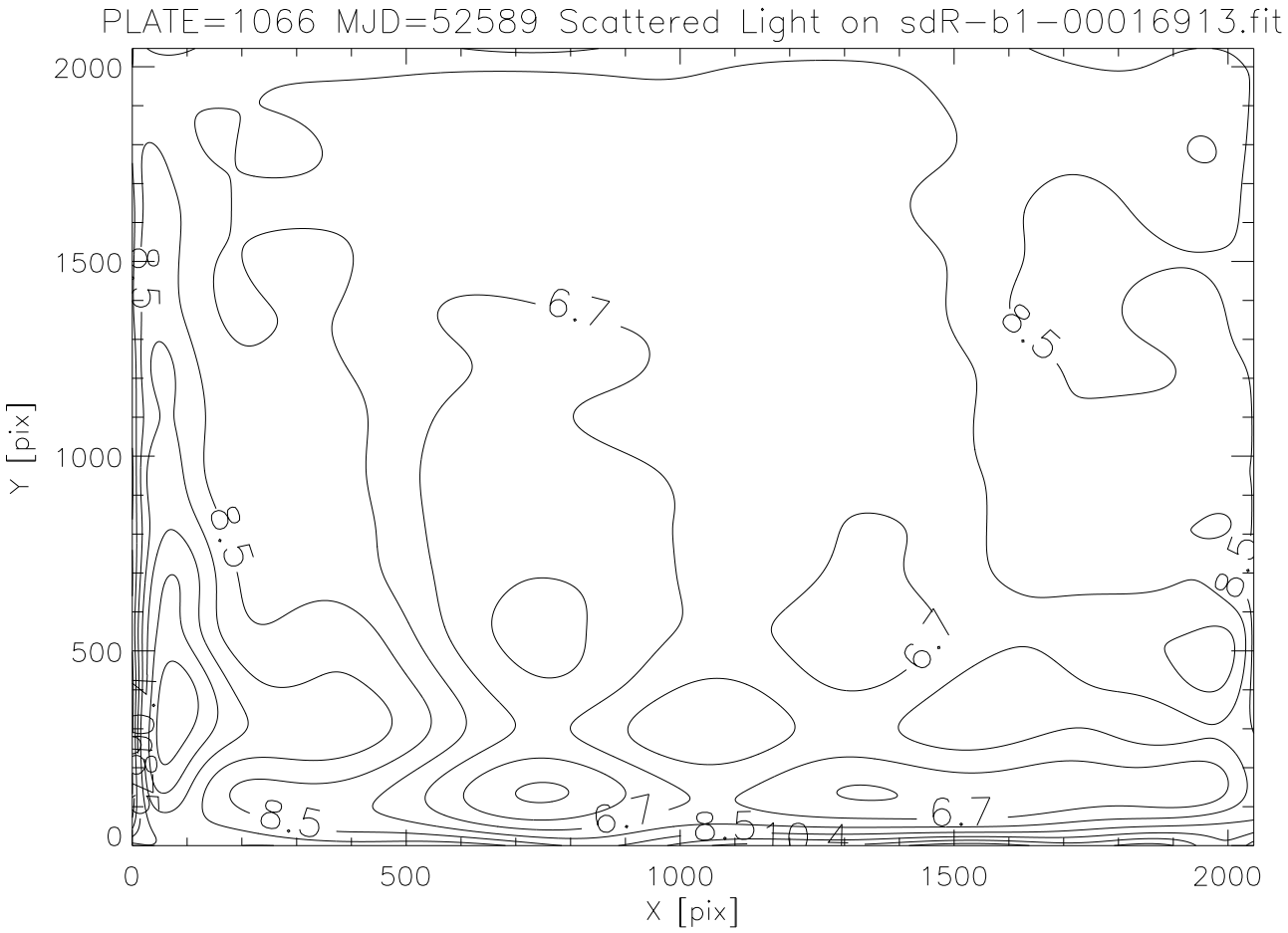

PLATE=1066 MJD=52589 sdR-b1-00016912.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.31 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

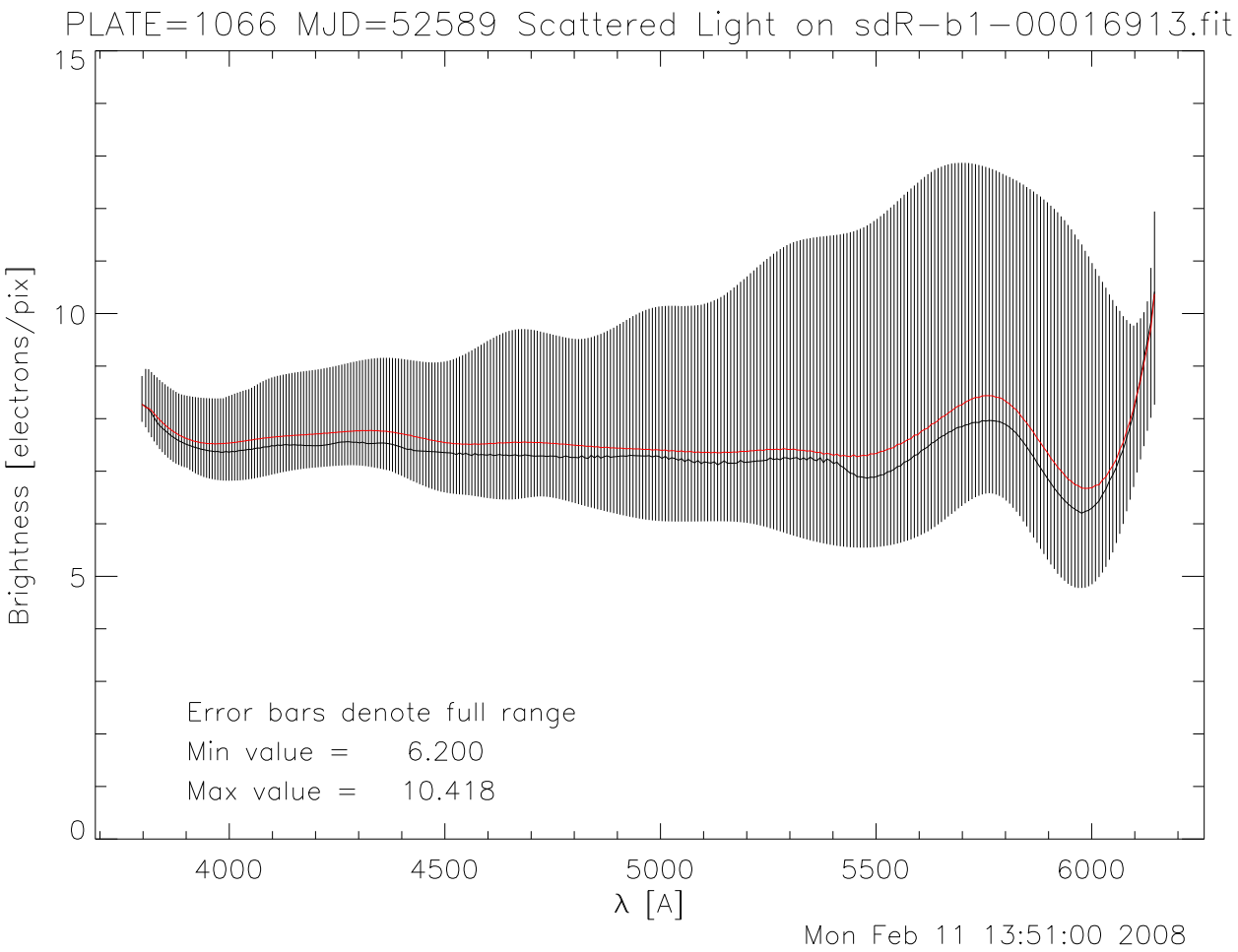

PLATE=1066 MJD=52589 sdR-b1-00016912.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.09 %
Fiber number
Focal Distance [mm]
Airmass

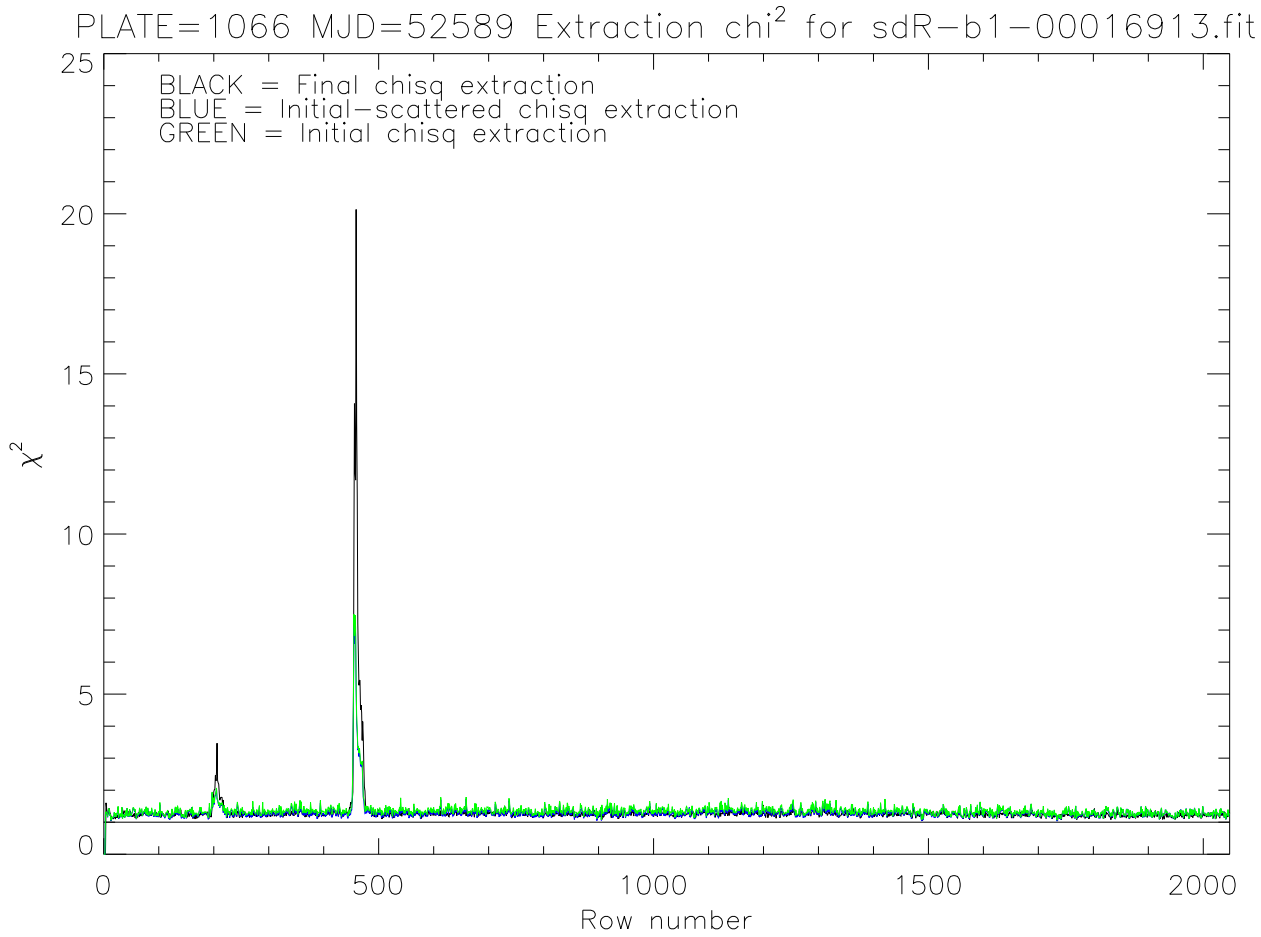

PLATE=1066 MJD=52589 Fiber-Flats for sdR-b1-00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.506
Max value = 1.272
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 13:47:35 2008

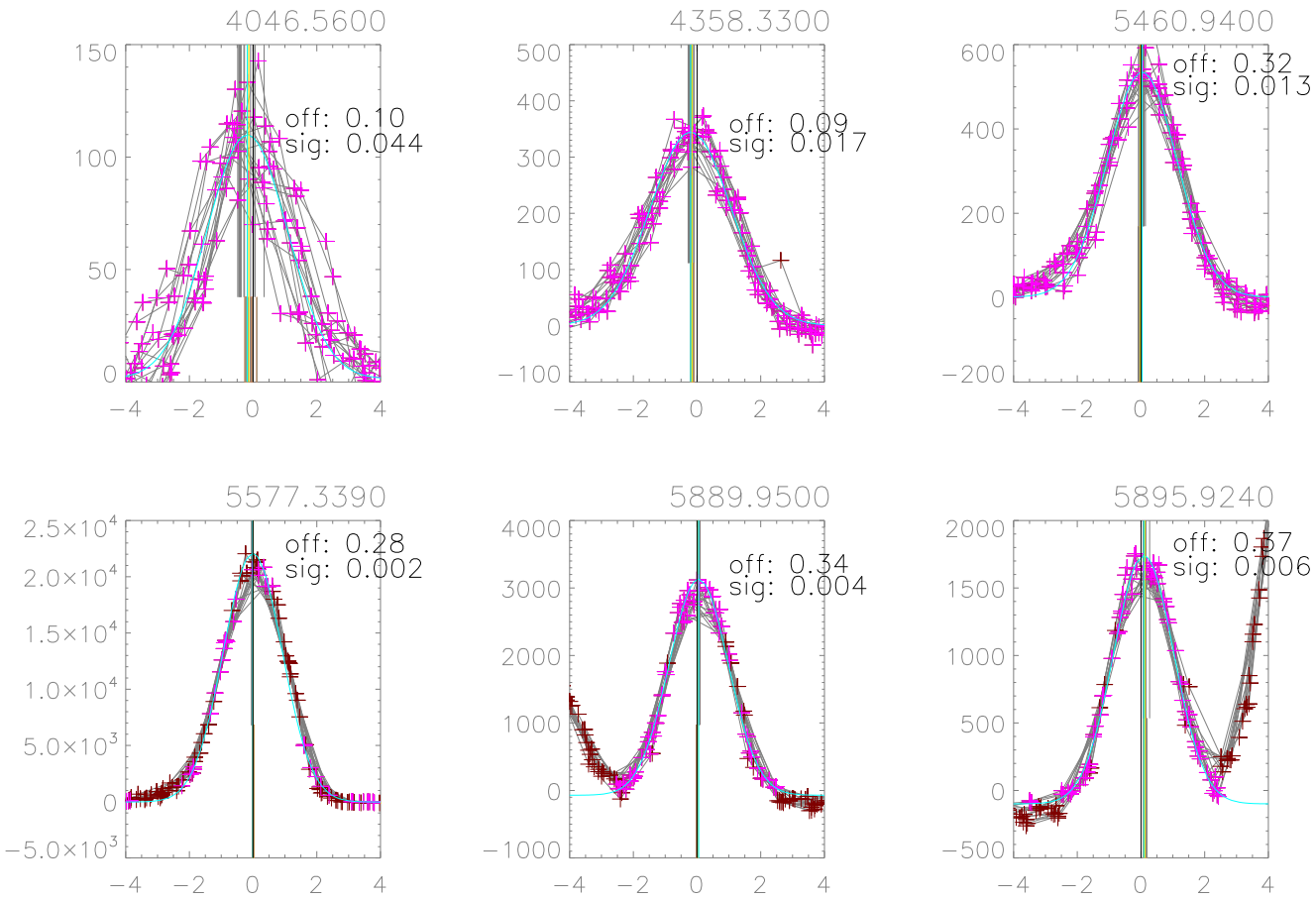

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR−b1−00016913.f
10.5
14.1
Y [pix]
X [pix]
0
500
1000
1500
2000

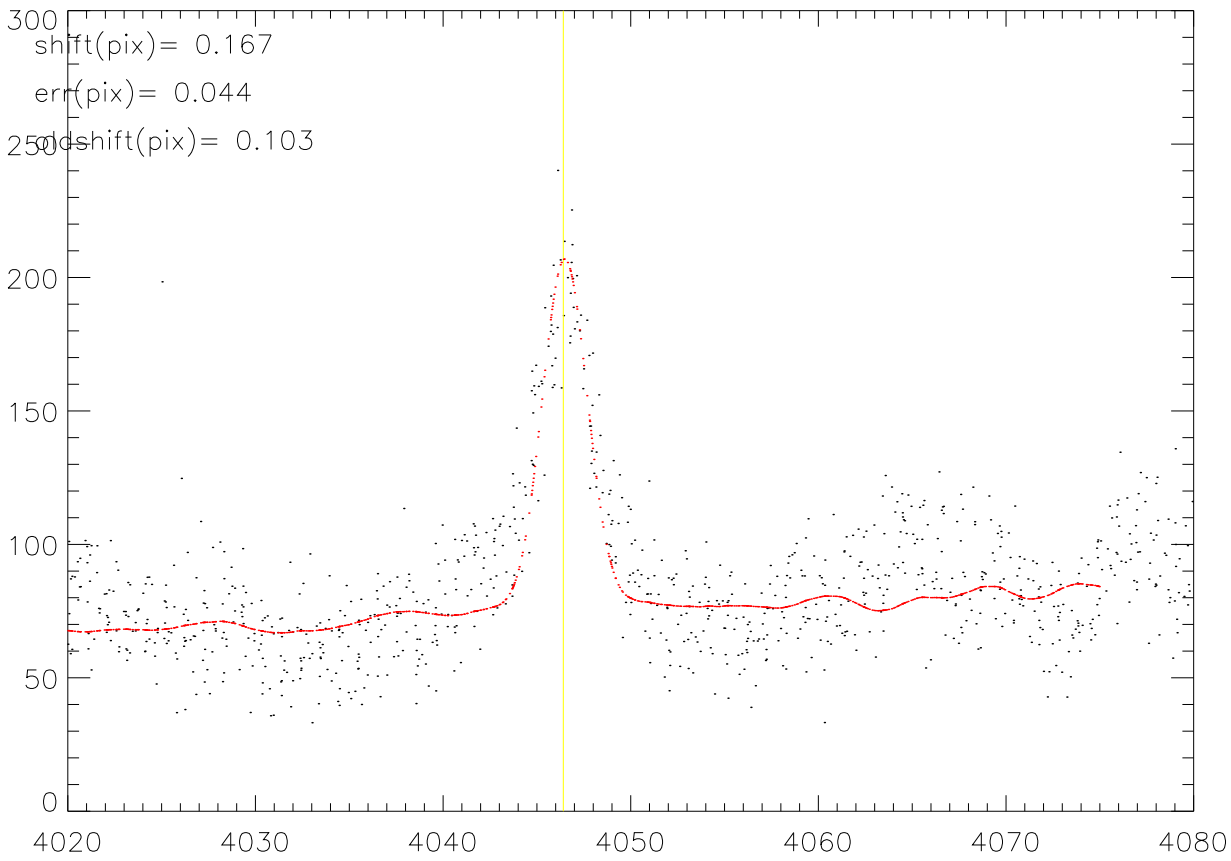

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-b1-00016913.f
Brightness [electrons/pix]
25
20
15
10
5
0
Error bars denote full range
Min value = 10.464
Max value = 17.151
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 13:48:27 2008

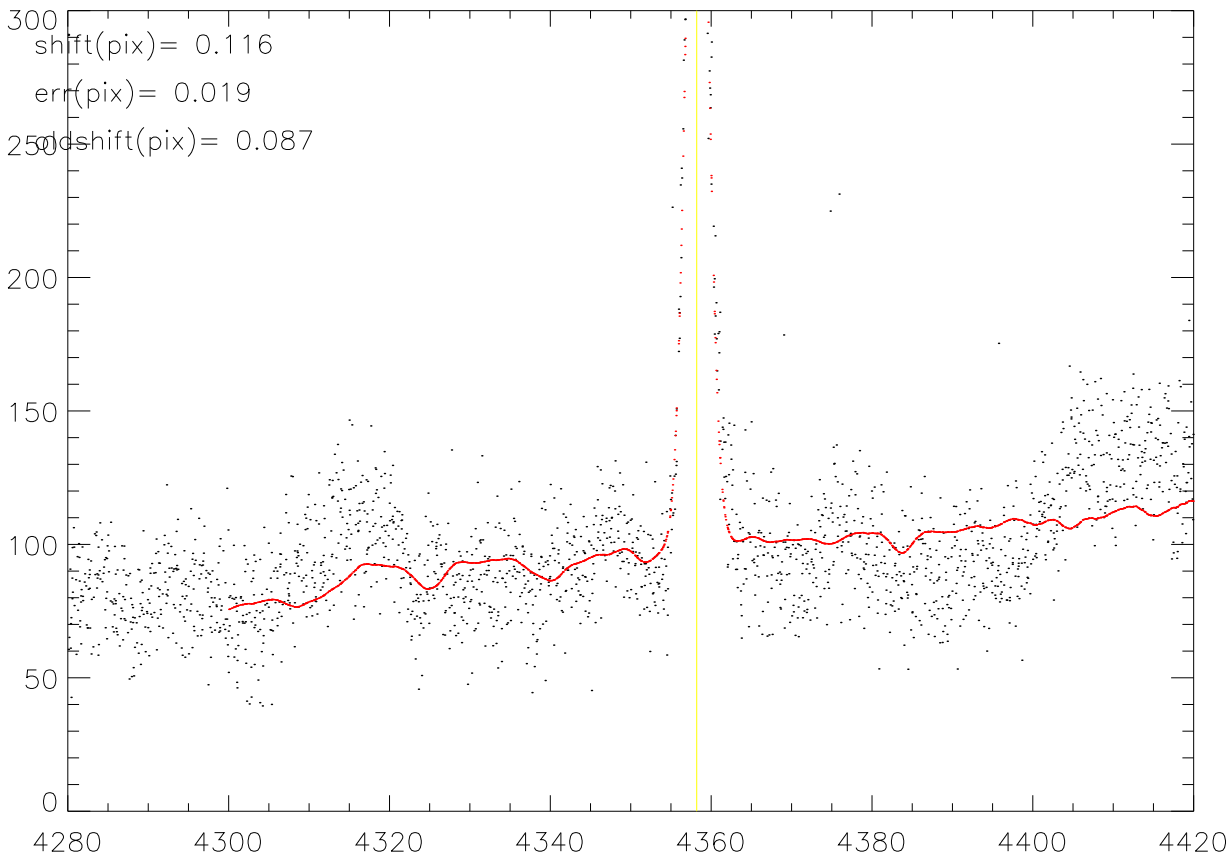

PLATE=1066 MJD=52589 Scattered Light on sdR-b1-00016913.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.5
6.7
10.4

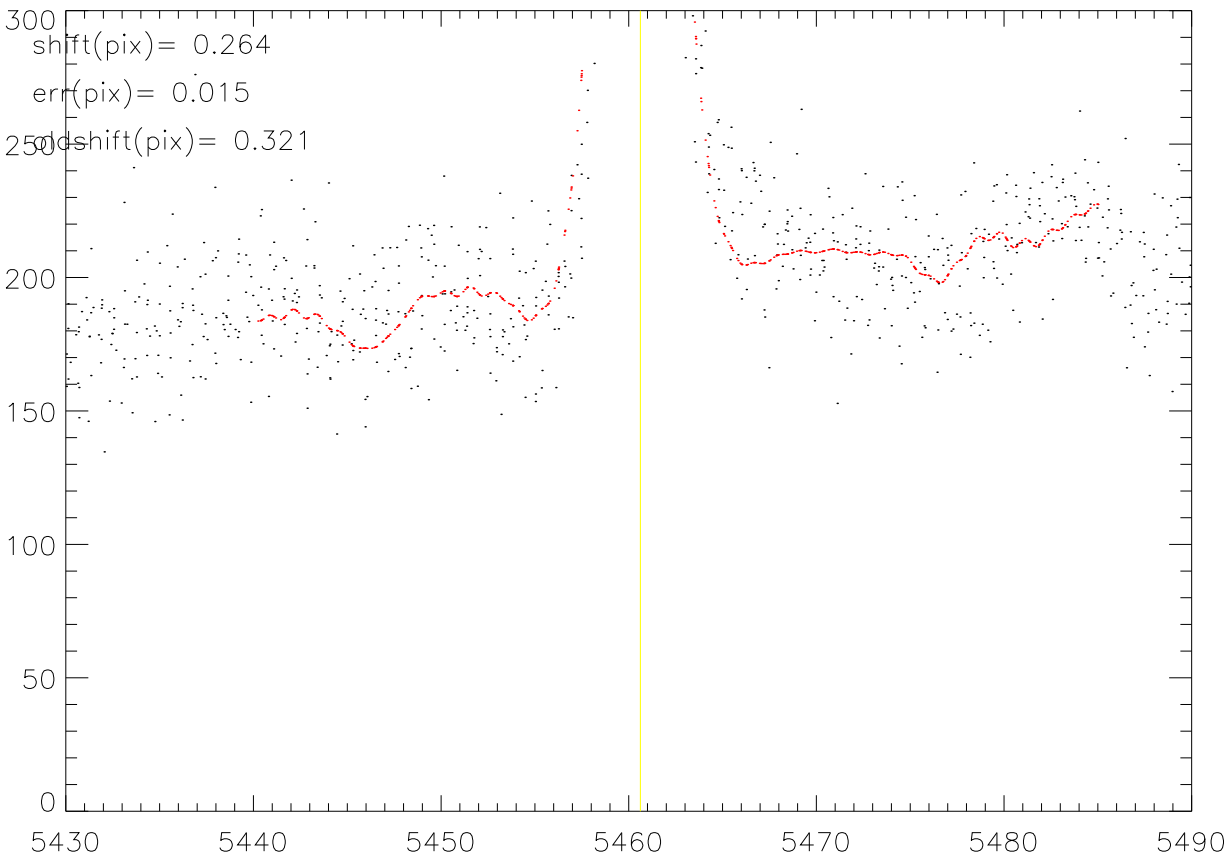

PLATE=1066 MJD=52589 Scattered Light on sdR-b1-00016913.fit
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 6.200
Max value = 10.418
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 13:51:00 2008

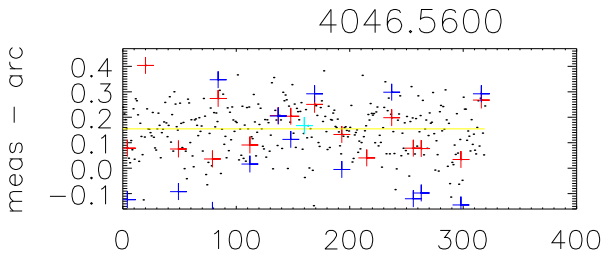

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-b1-00016913.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
25
0
500
1000
1500
2000
Row number

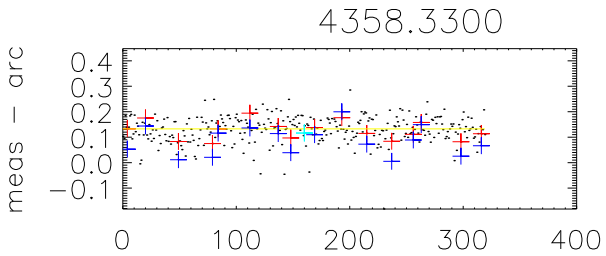

4046.5600
off: 0.10
sig: 0.044
4358.3300
off: 0.09
sig: 0.017
5460.9400
off: 0.32
sig: 0.013
5577.3390
off: 0.28
sig: 0.002
5889.9500
off: 0.34
sig: 0.004
5895.9240
off: 0.37
sig: 0.006

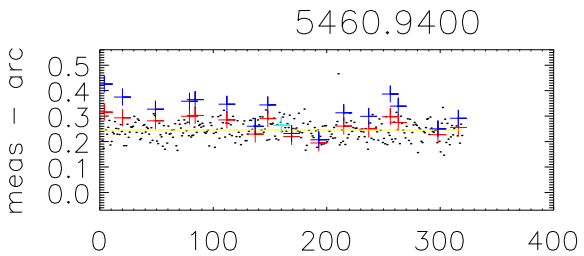

shift(pix)= 0.167
err(pix)= 0.044
oldshift(pix)= 0.103
300
250
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

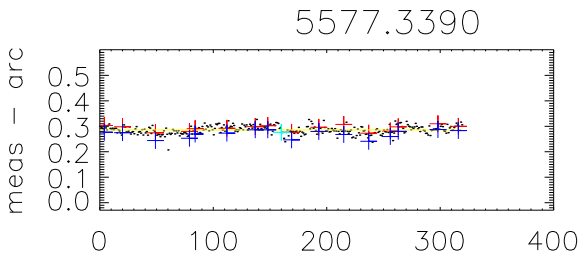

shift(pix)= 0.116
err(pix)= 0.019
oldshift(pix)= 0.087
300
250
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

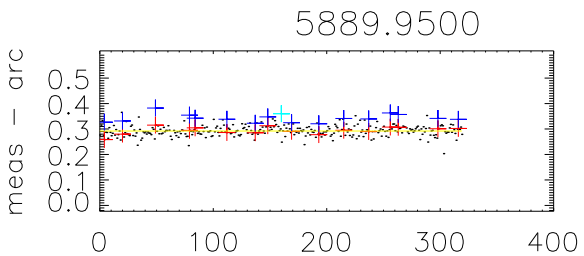

shift(pix)= 0.264
err(pix)= 0.015
oldshift(pix)= 0.321
300
250
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

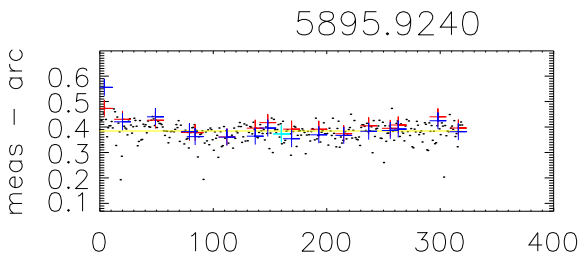

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

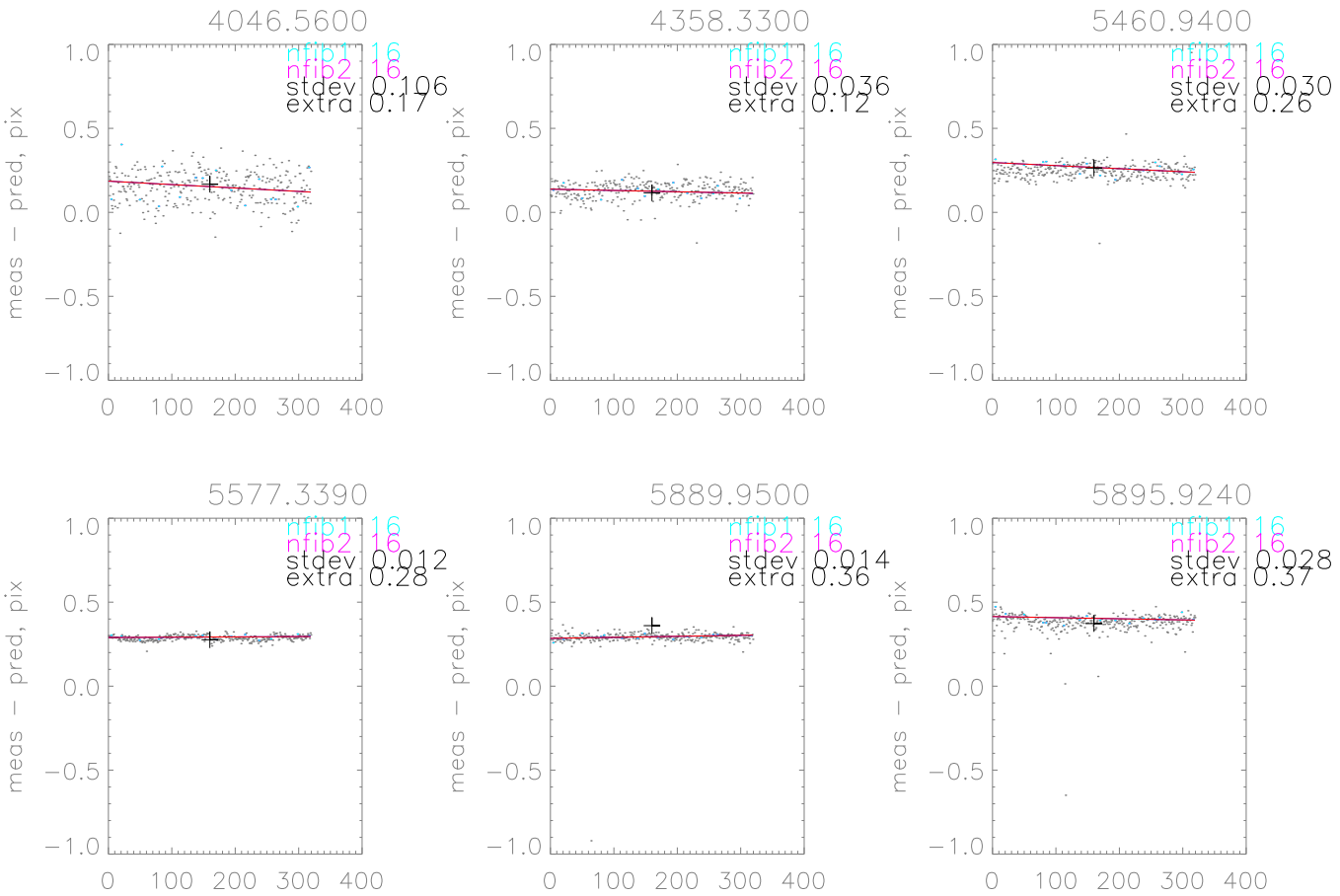

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

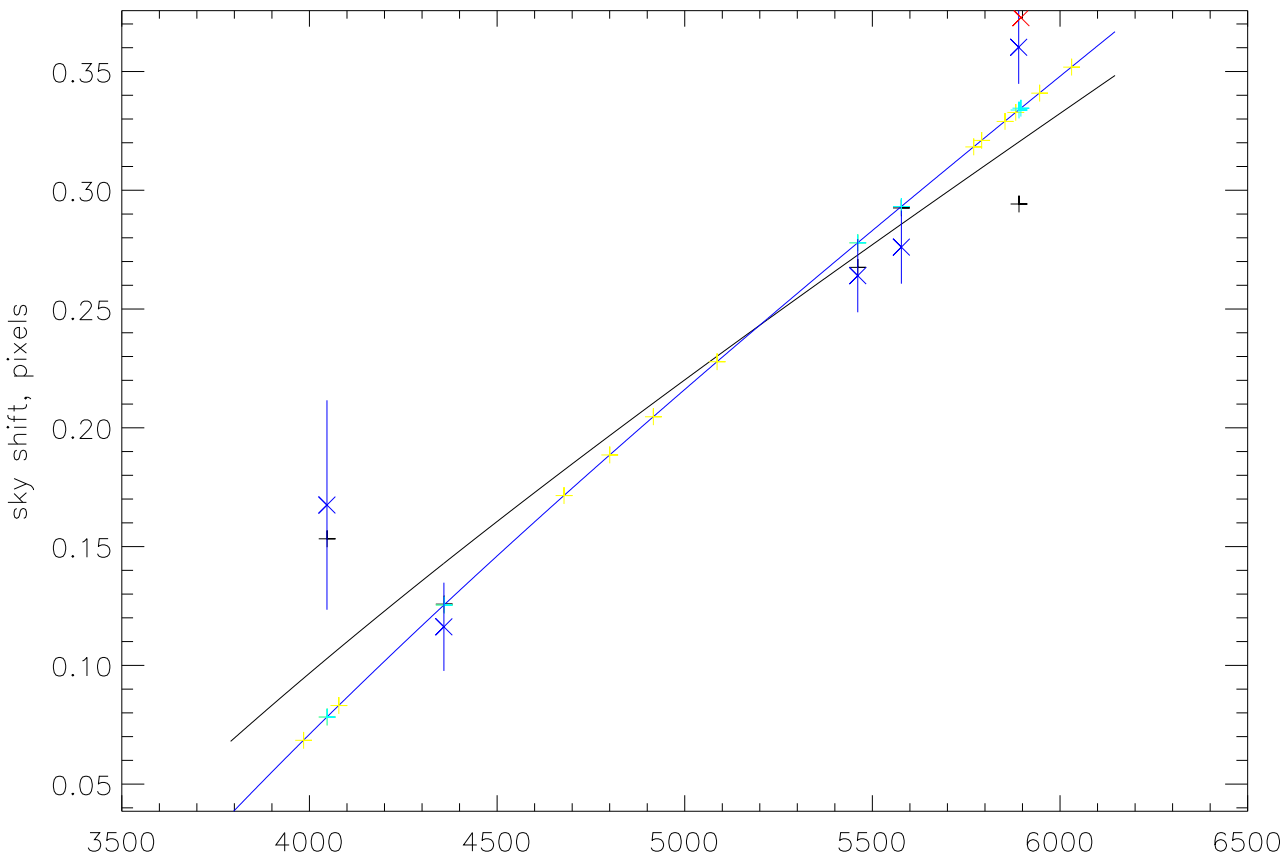

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

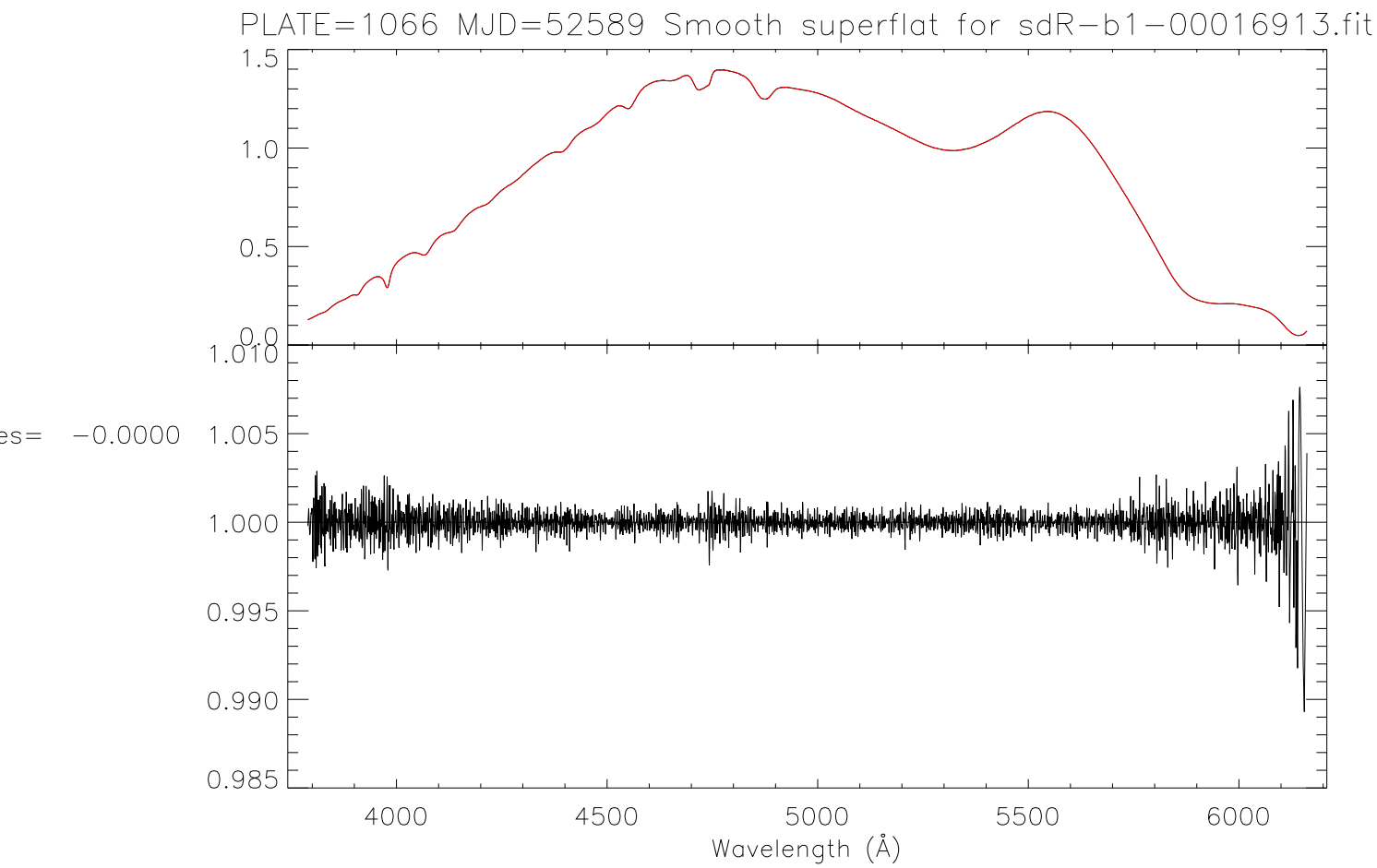

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

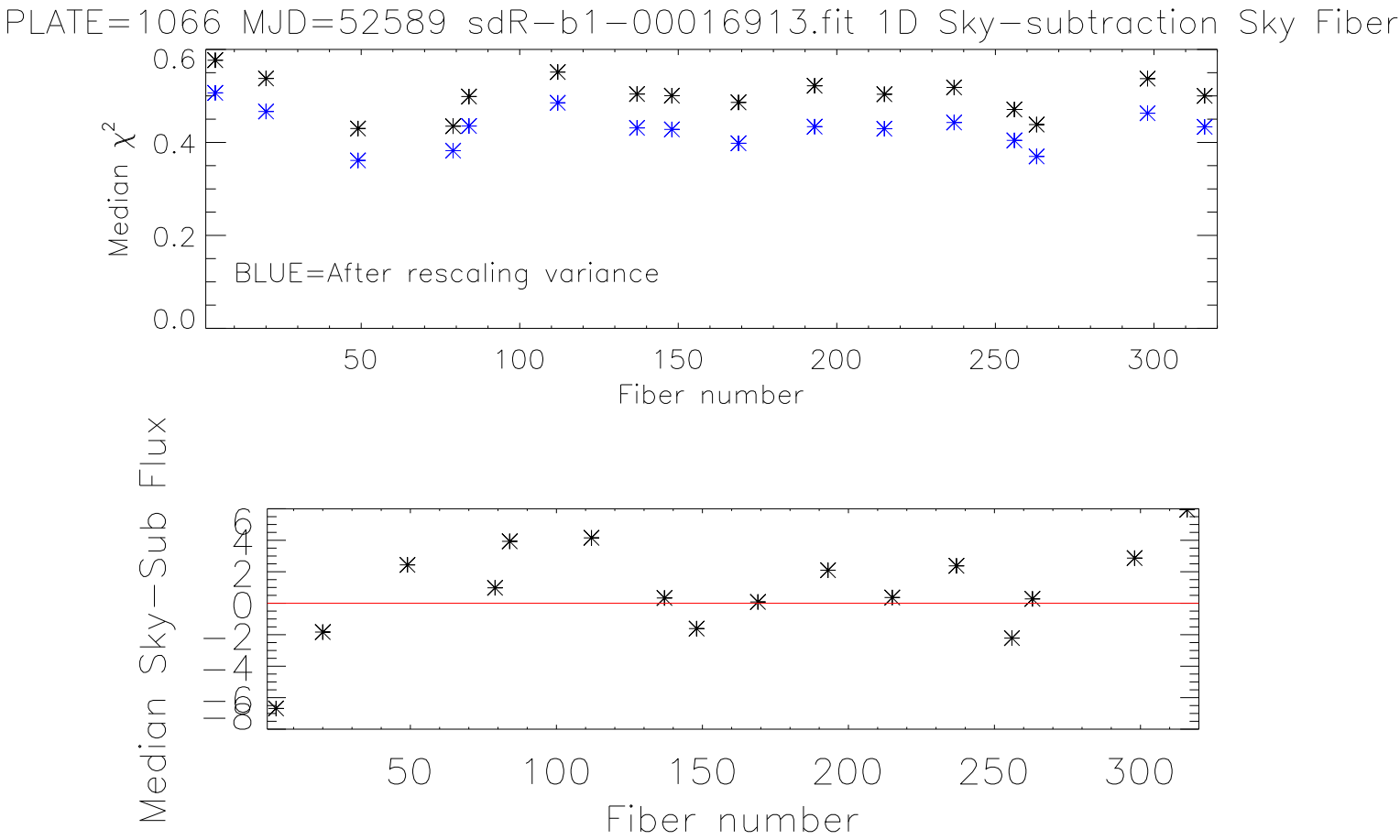

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

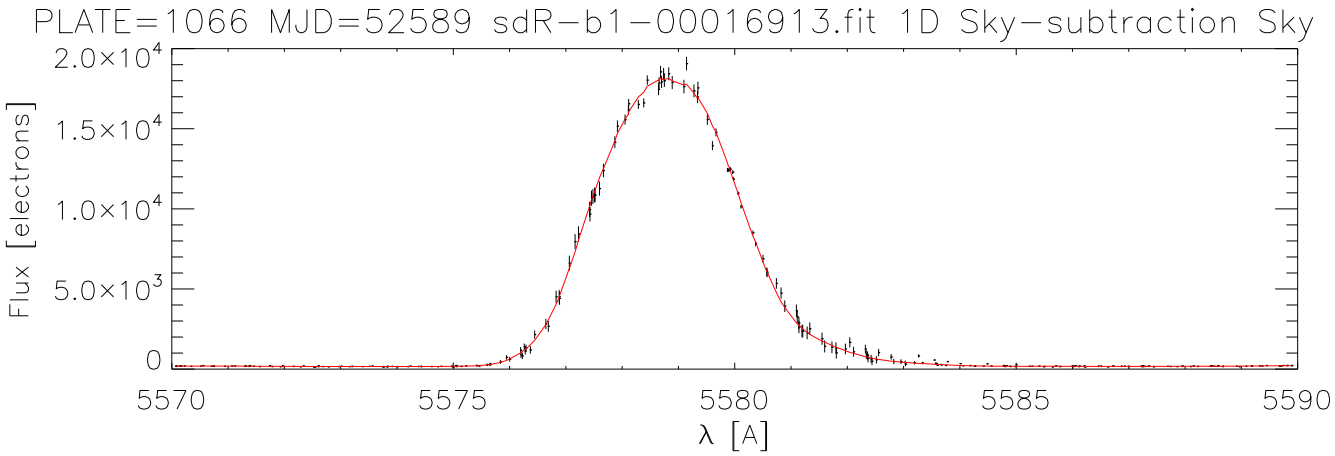

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

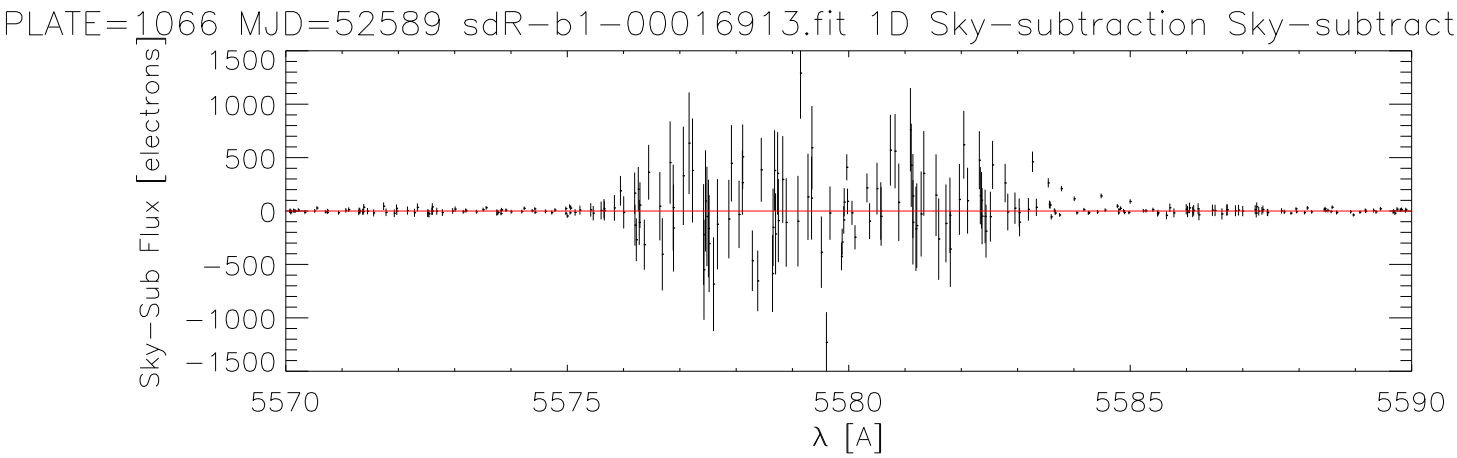

4046.5600
nfib1 16
nfib2 16
stdev 0.106
extra 0.17
4358.3300
nfib1 16
nfib2 16
stdev 0.036
extra 0.12
5460.9400
nfib1 16
nfib2 16
stdev 0.030
extra 0.26
5577.3390
nfib1 16
nfib2 16
stdev 0.012
extra 0.28
5889.9500
nfib1 16
nfib2 16
stdev 0.014
extra 0.36
5895.9240
nfib1 16
nfib2 16
stdev 0.028
extra 0.37
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

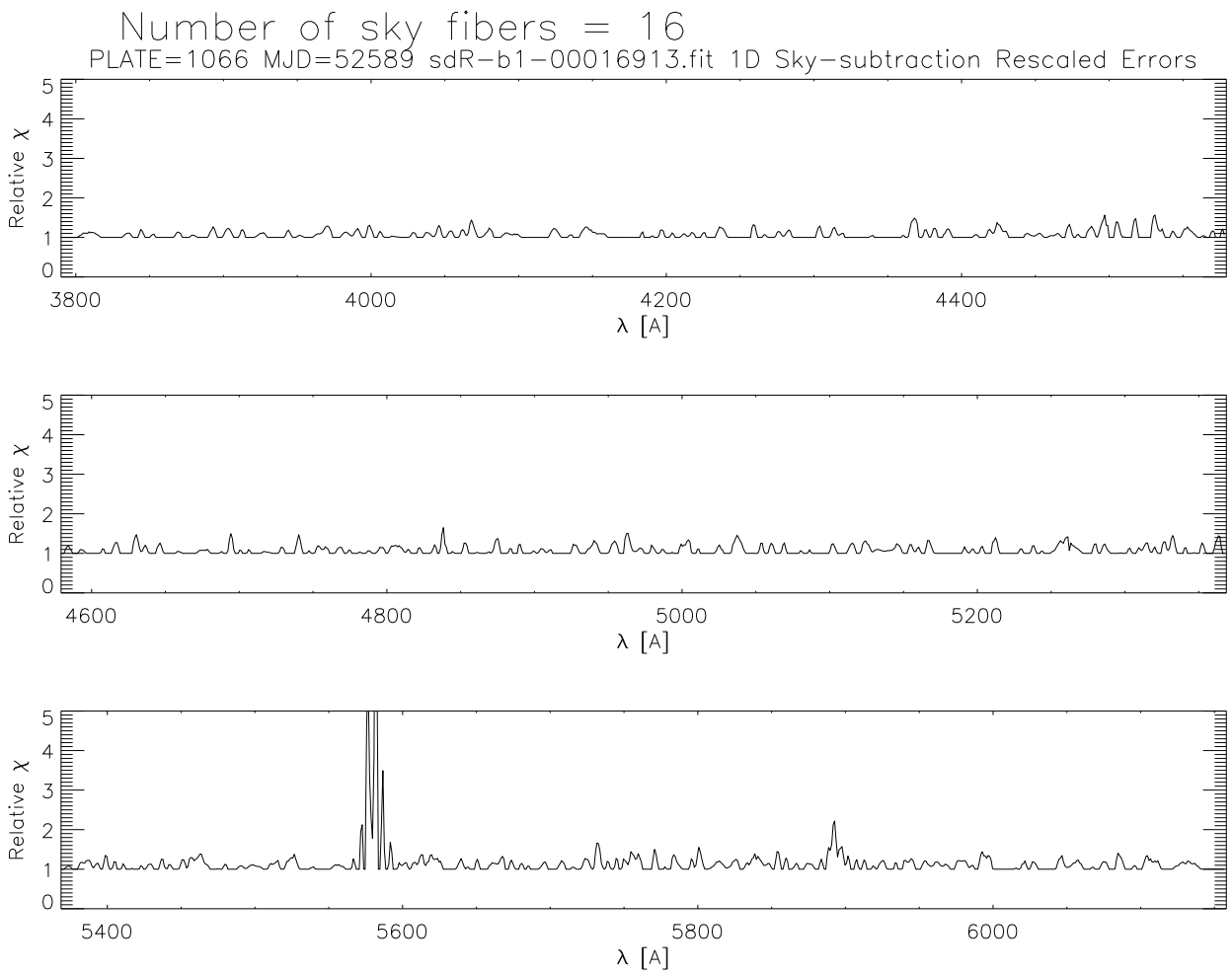

sky shift, pixels
0.05
0.10
0.15
0.20
0.25
0.30
0.35
3500
4000
4500
5000
5500
6000
6500

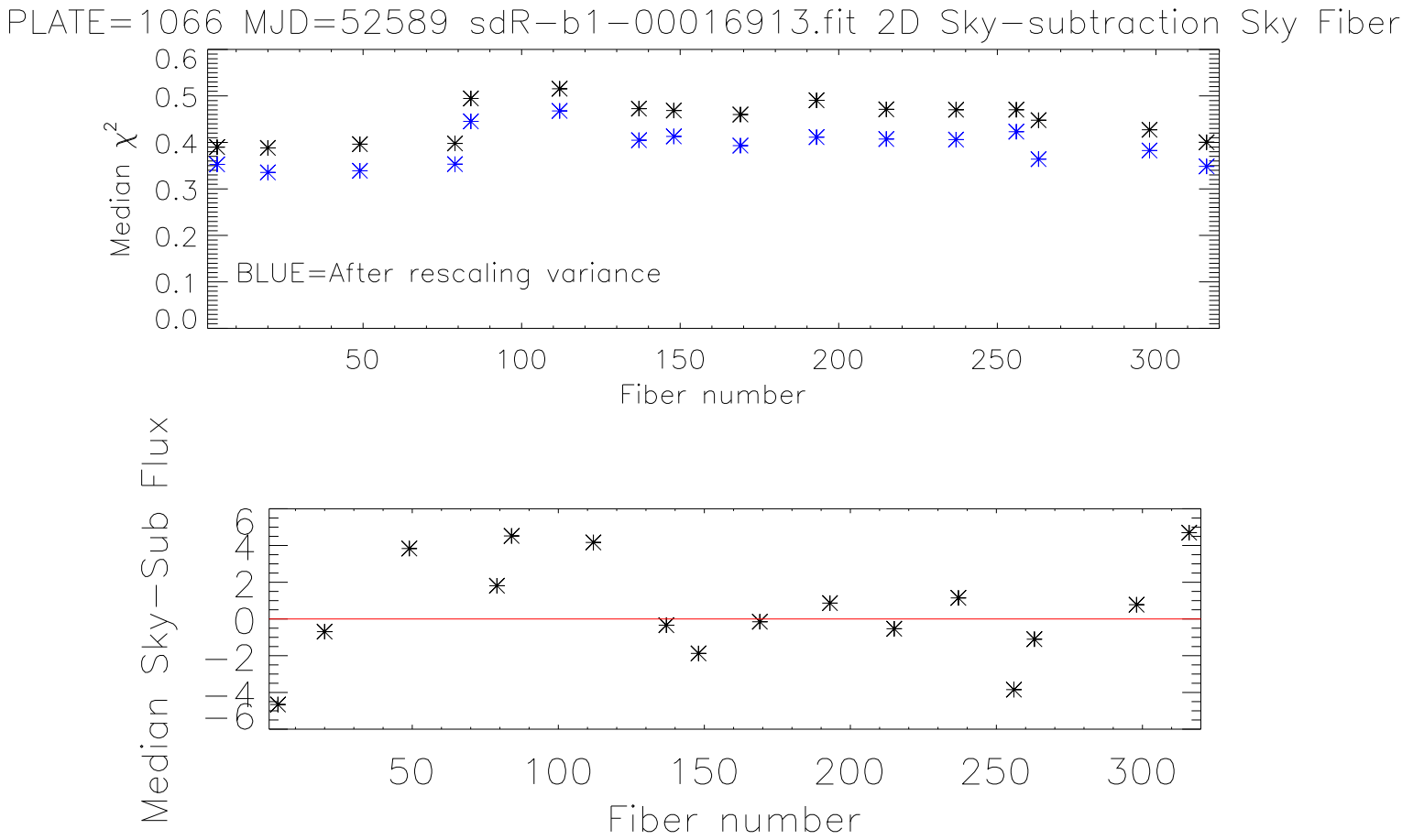

PLATE=1066 MJD=52589 Smooth superflat for sdR-b1-00016913.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

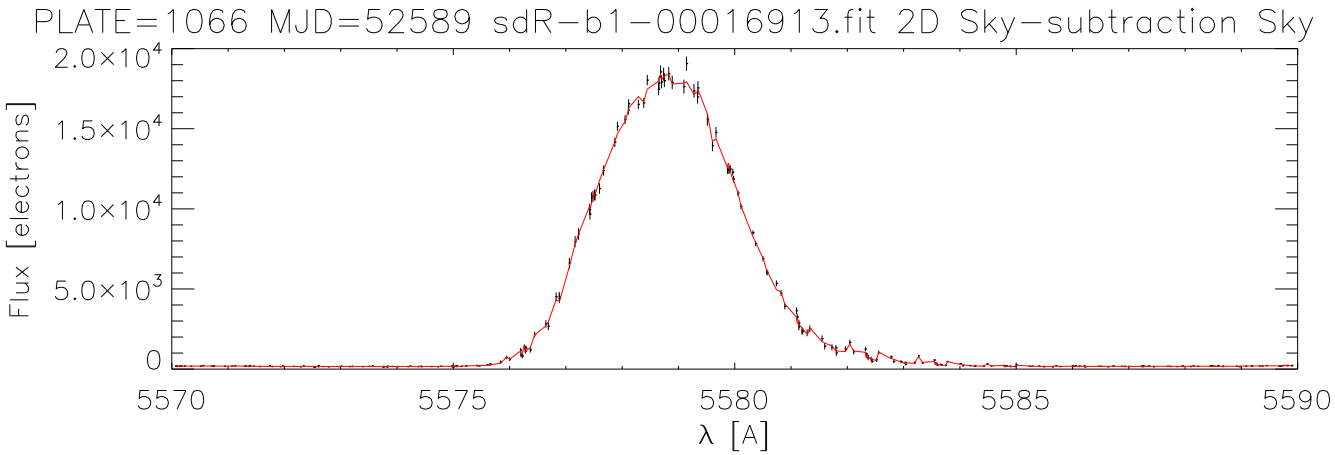

PLATE=1066 MJD=52589 sdR-b1-00016913.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-1.1
-1.0
-0.9
-0.8
-0.7
-0.6
50
100
150
200
250
300
Fiber number

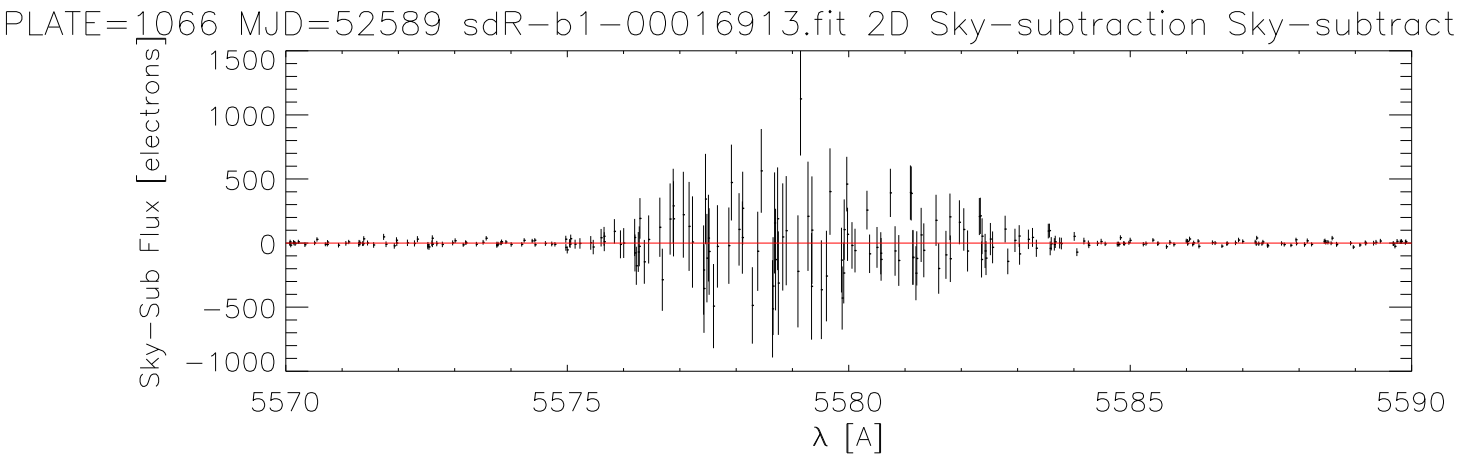

PLATE=1066 MJD=52589 sdR-b1-00016913.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

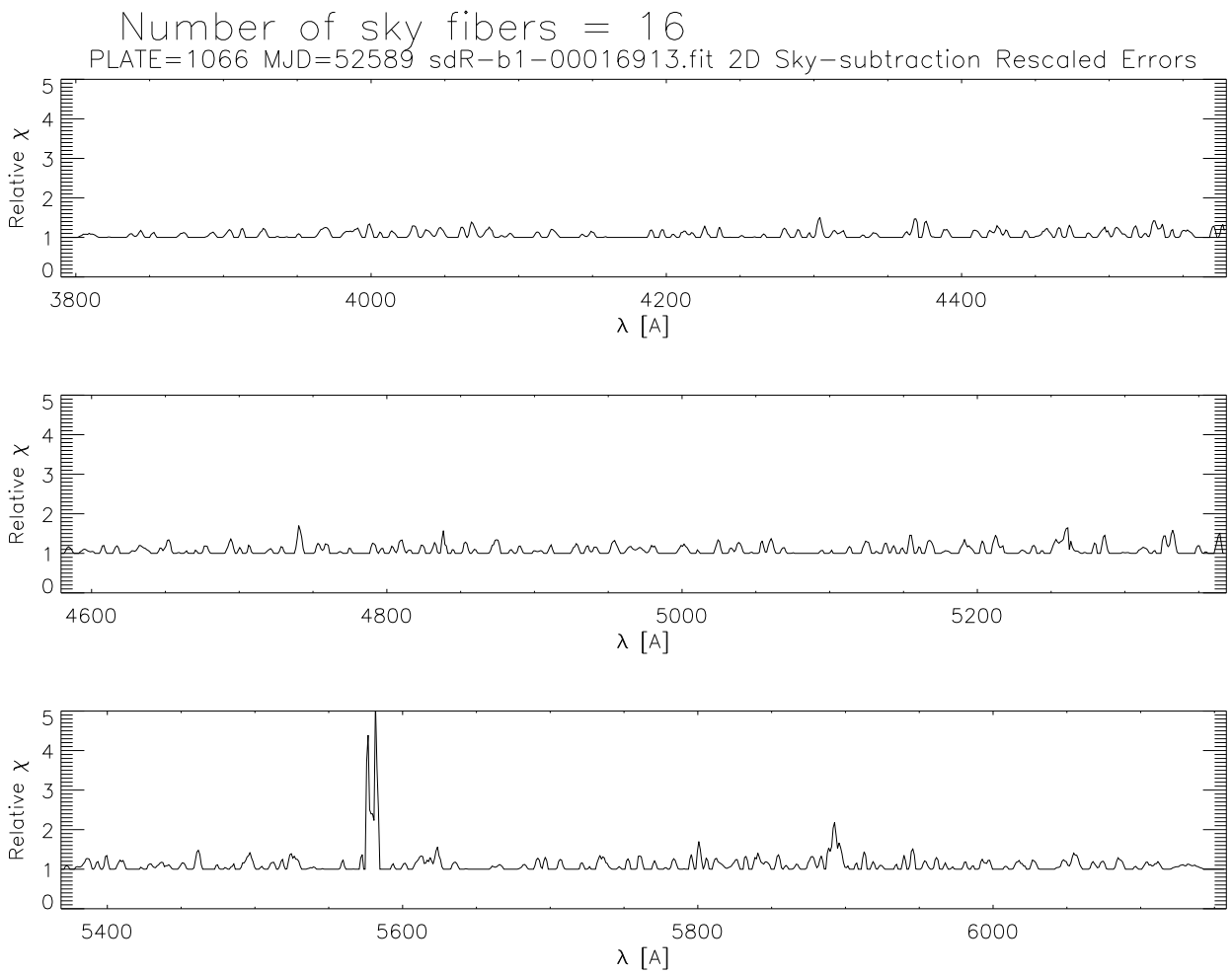

PLATE=1066 MJD=52589 sdR-b1-00016913.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
−1500
5570
5575
5580
5585
5590
λ [A]

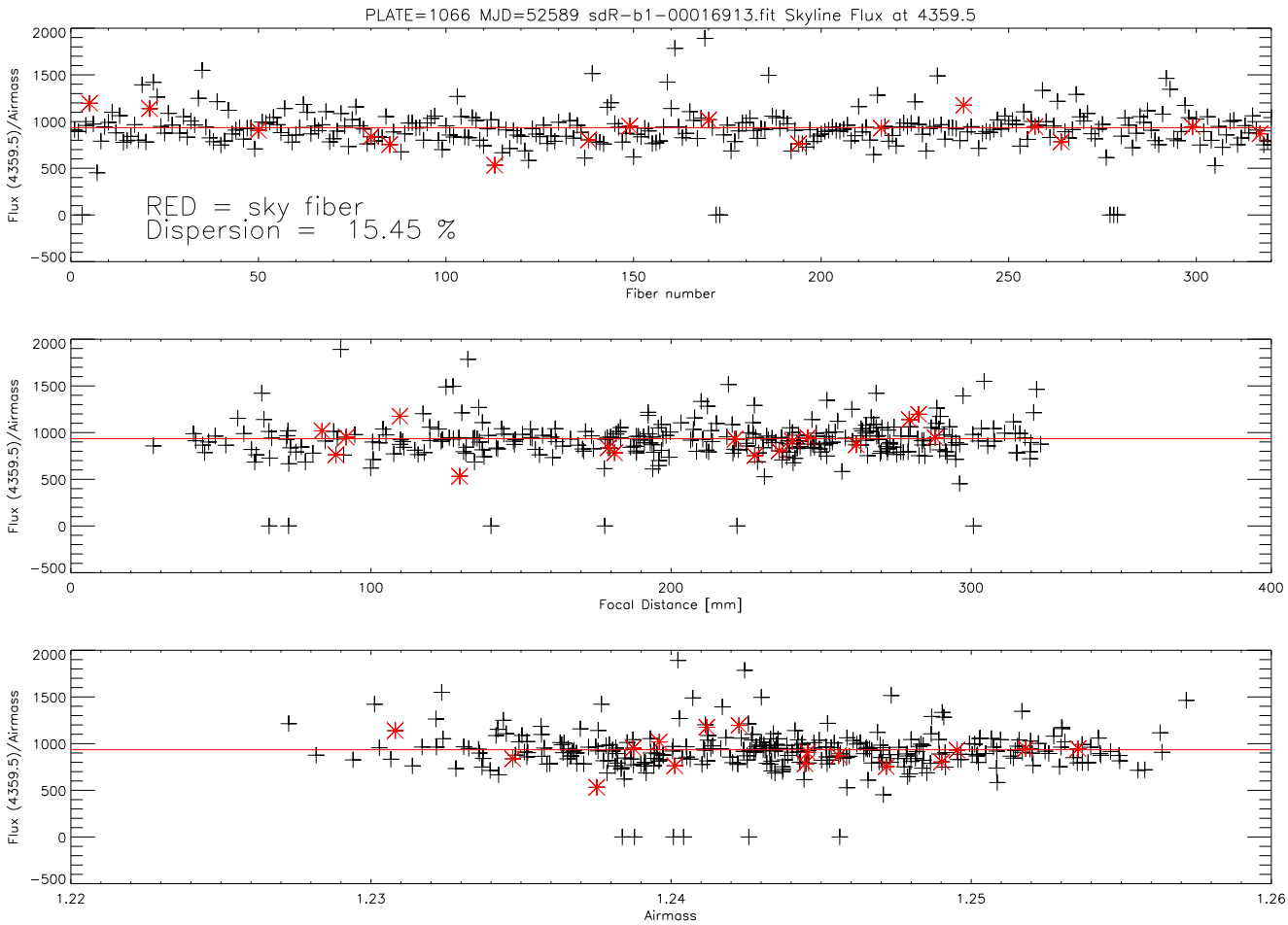

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b1-00016913.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

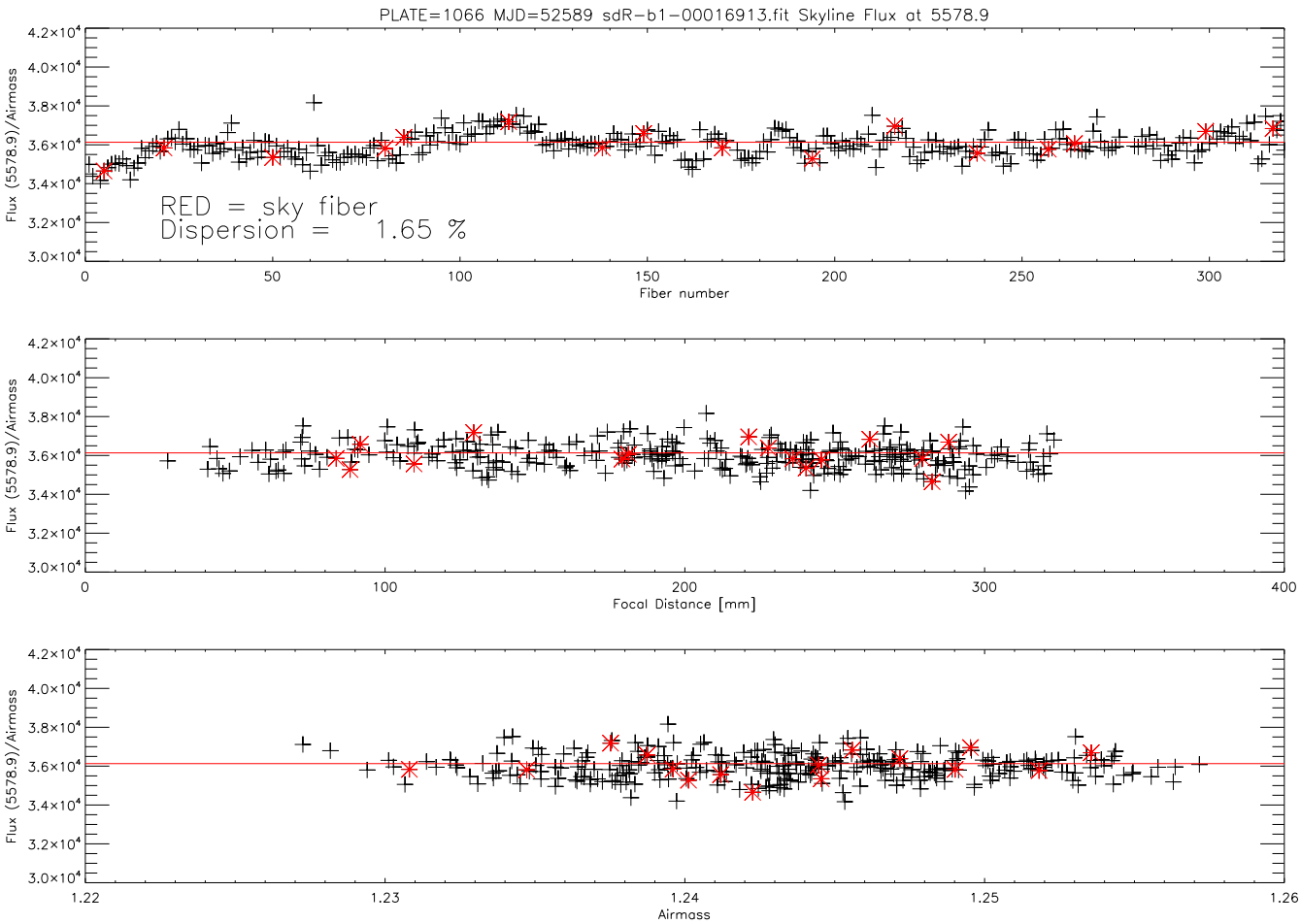

PLATE=1066 MJD=52589 sdR-b1-00016913.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

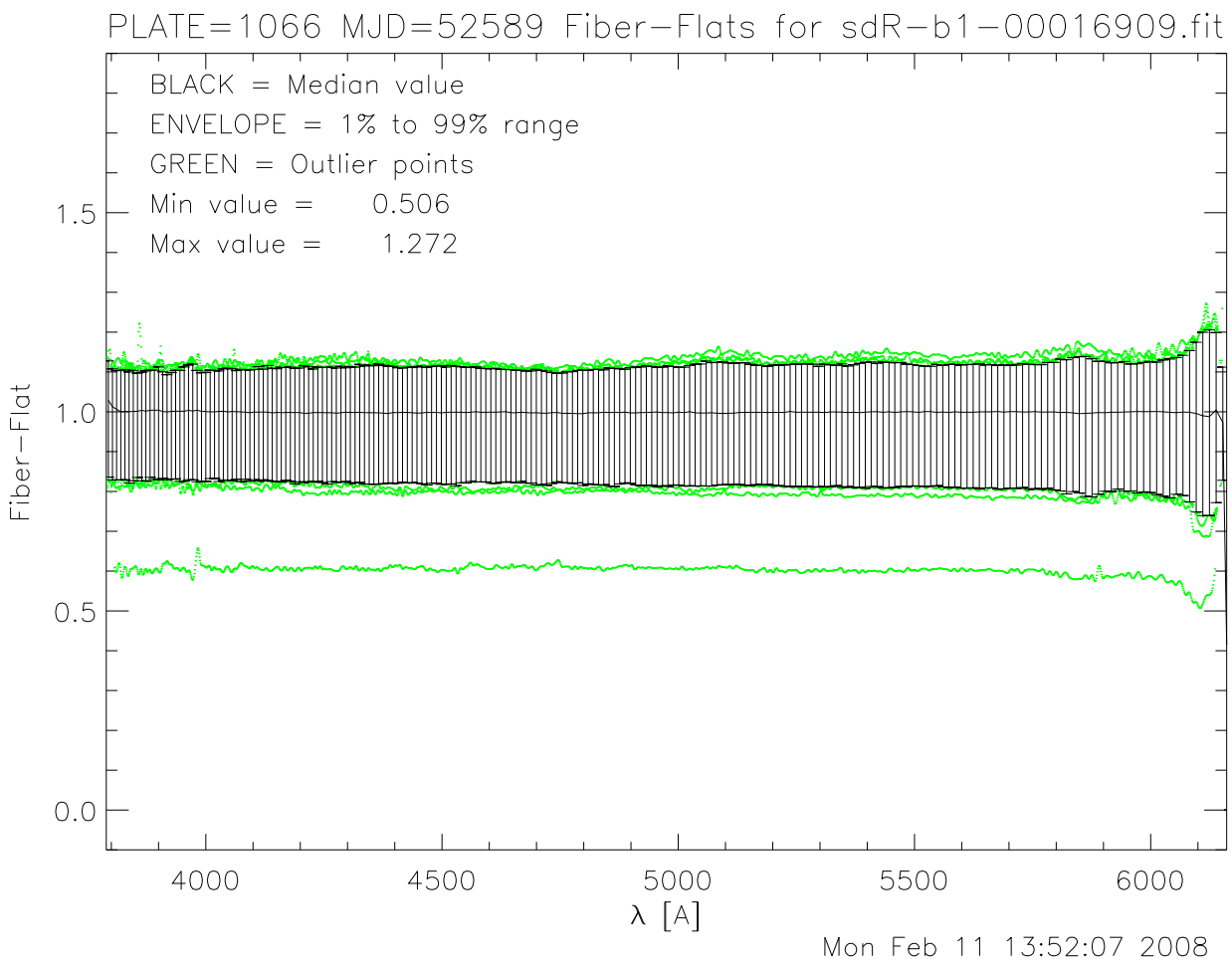

PLATE=1066 MJD=52589 sdR-b1-00016913.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

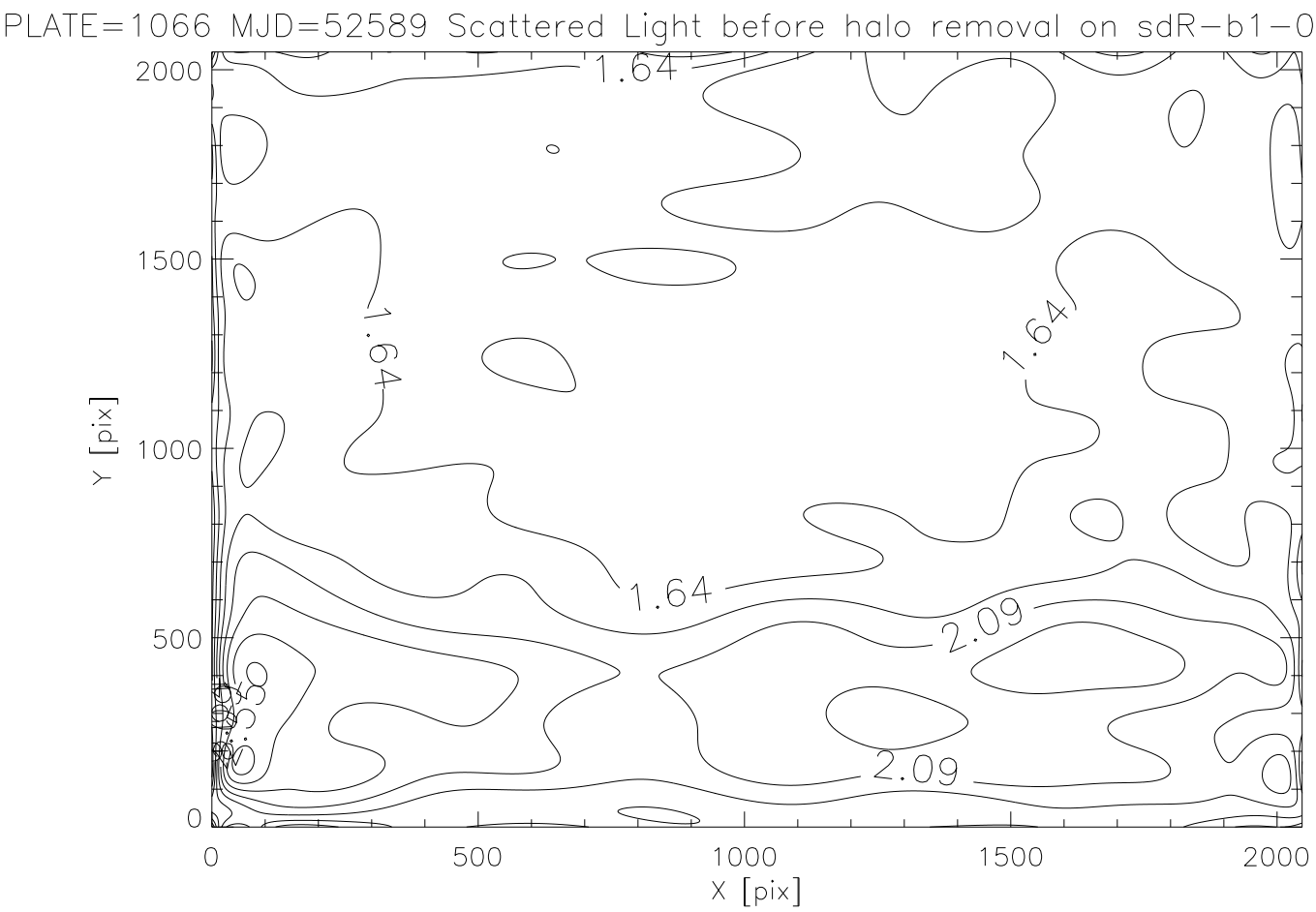

PLATE=1066 MJD=52589 sdR-b1-00016913.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

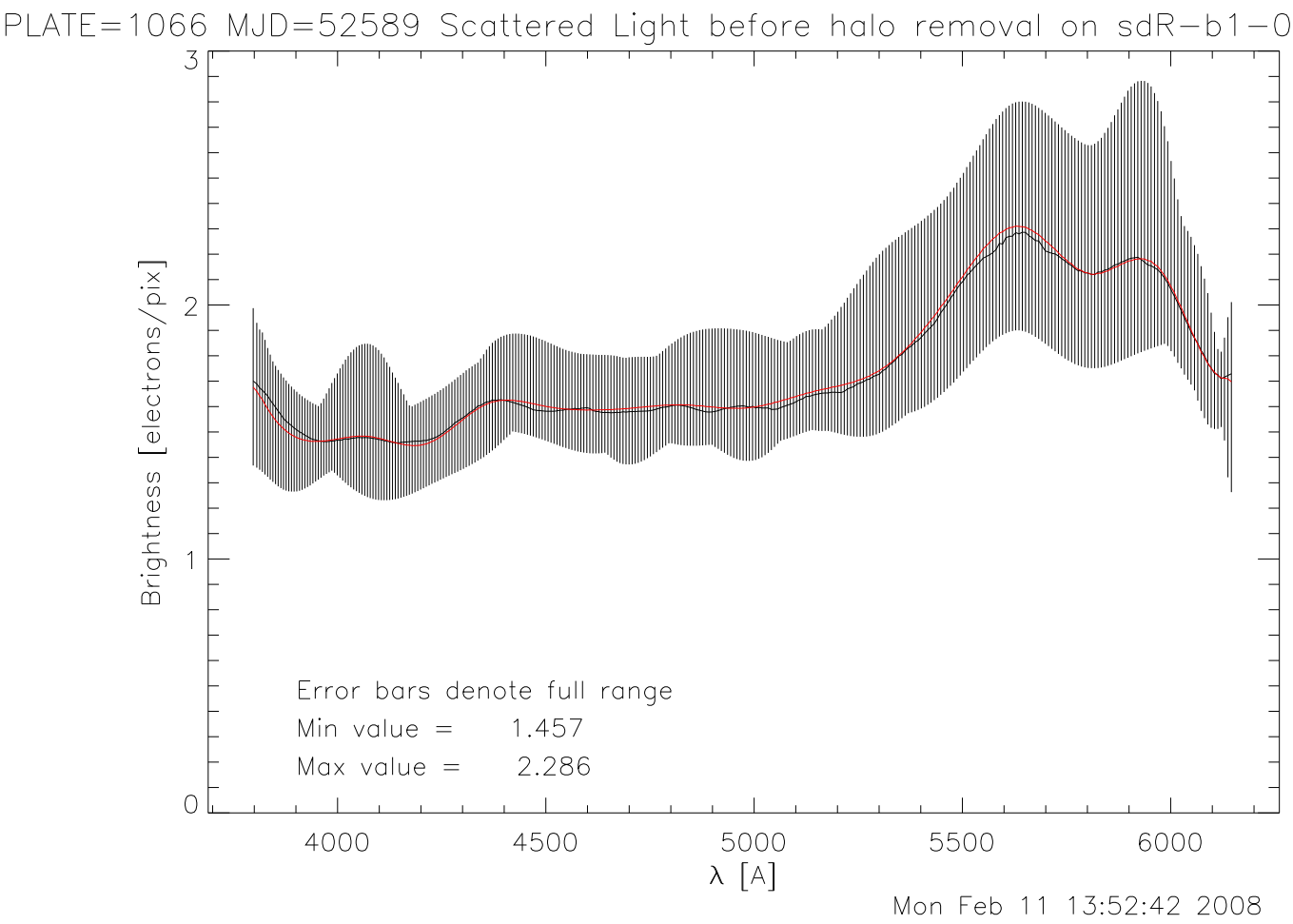

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b1-00016913.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

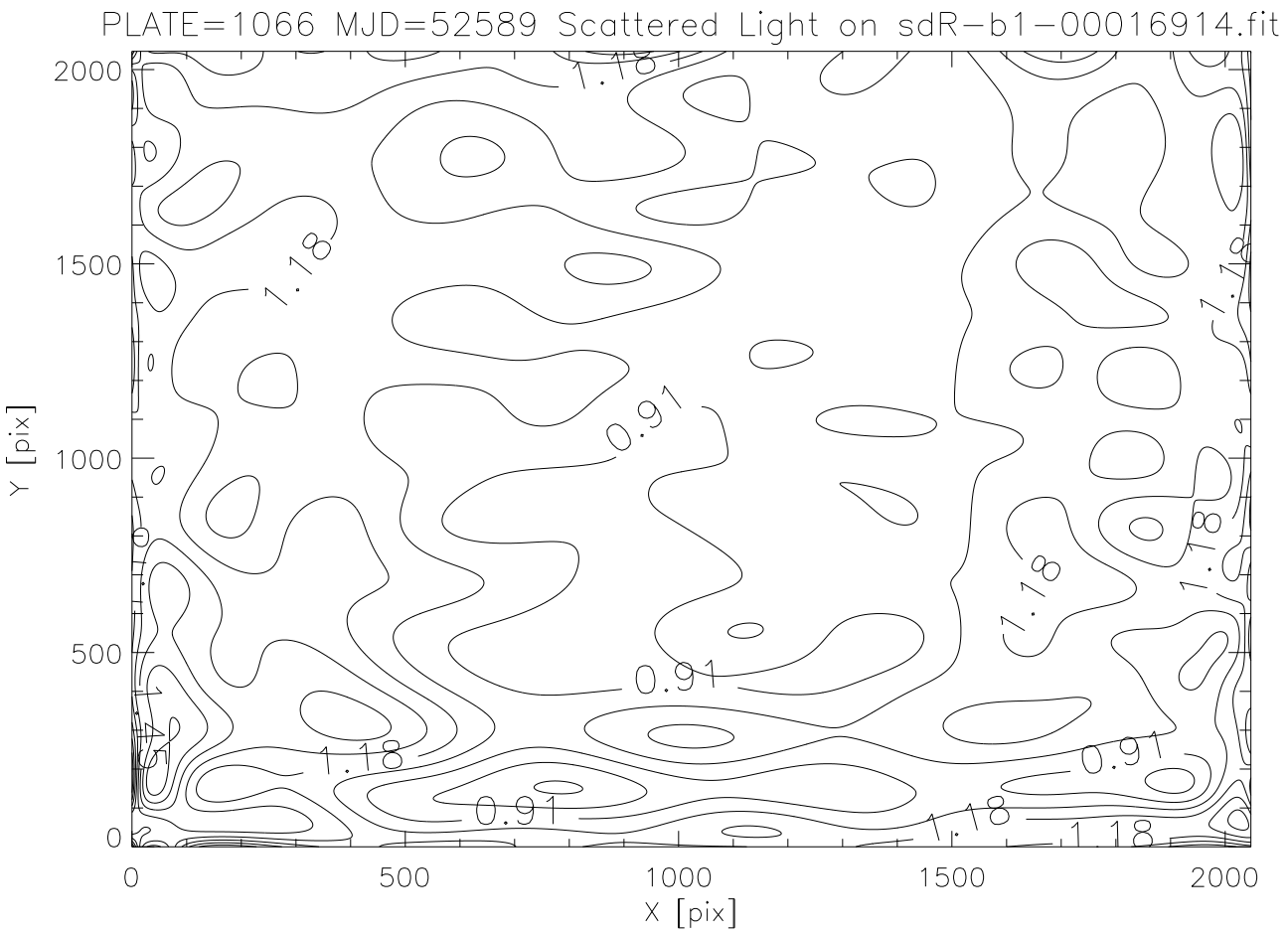

PLATE=1066 MJD=52589 sdR-b1-00016913.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 15.45 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

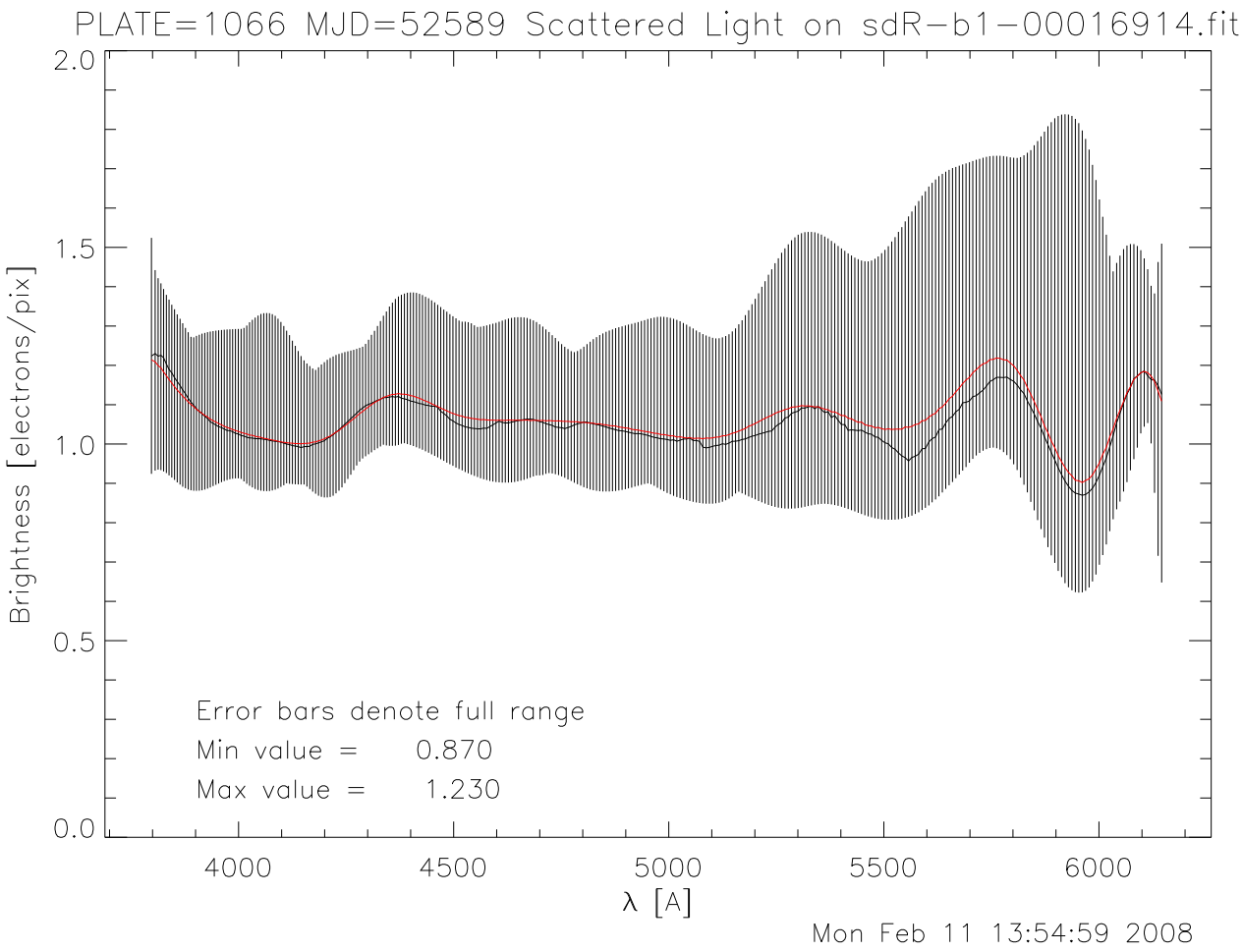

PLATE=1066 MJD=52589 sdR-b1-00016913.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.65 %
Fiber number
Focal Distance [mm]
Airmass

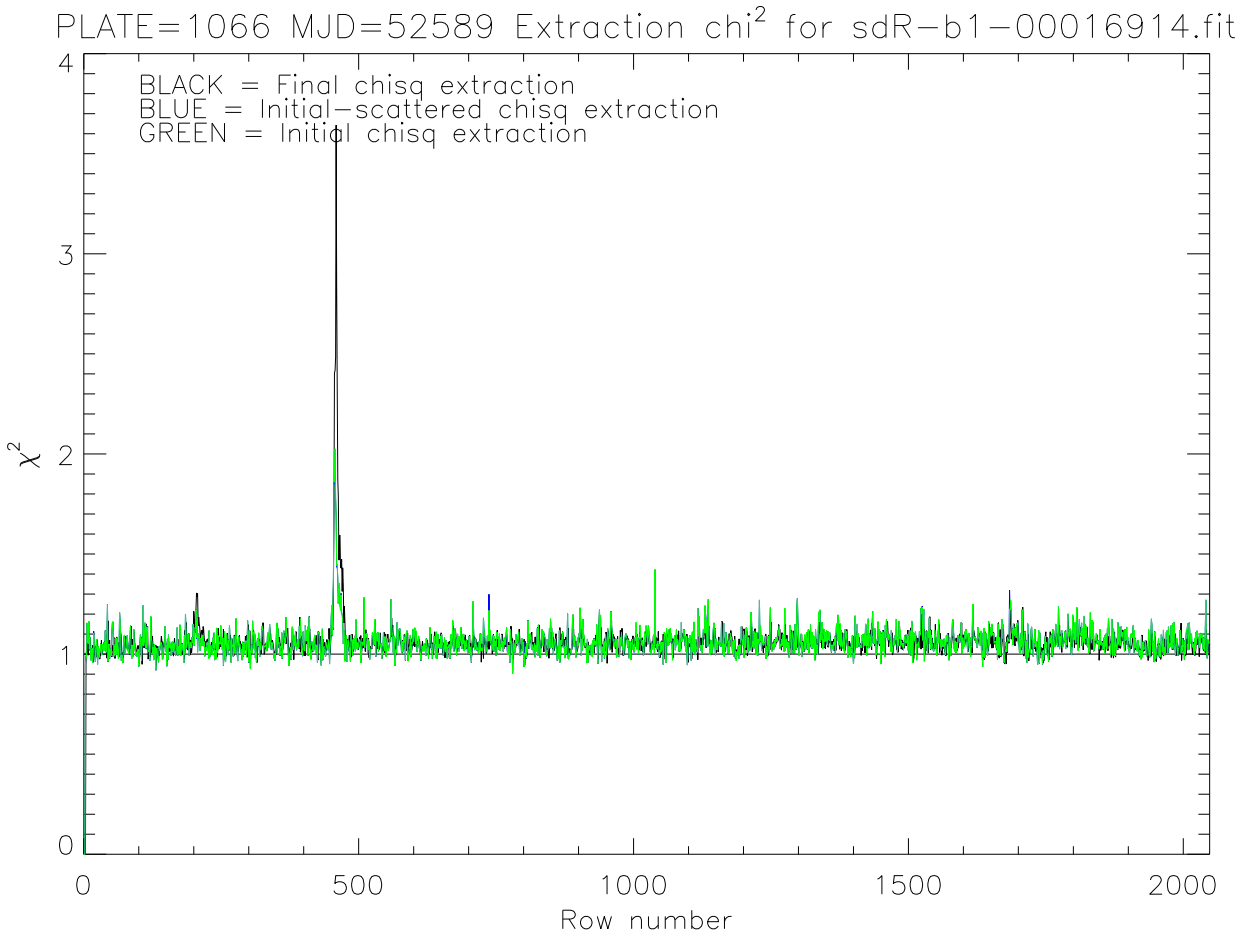

PLATE=1066 MJD=52589 Fiber-Flats for sdR-b1-00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.506
Max value = 1.272
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 13:52:07 2008

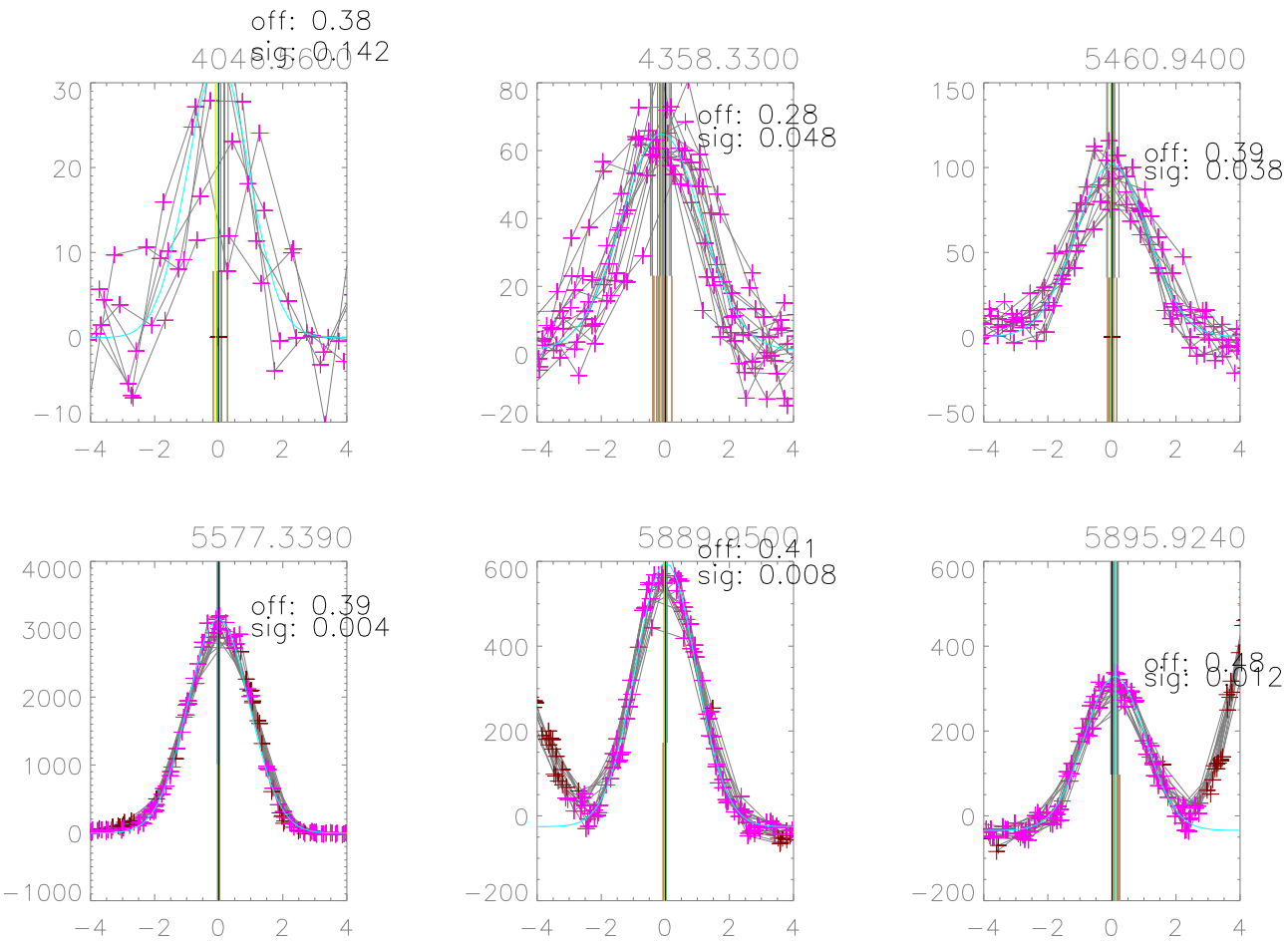

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR−b1−00016914.f
1.64
1.64
1.64
1.64
2.09
2.09
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

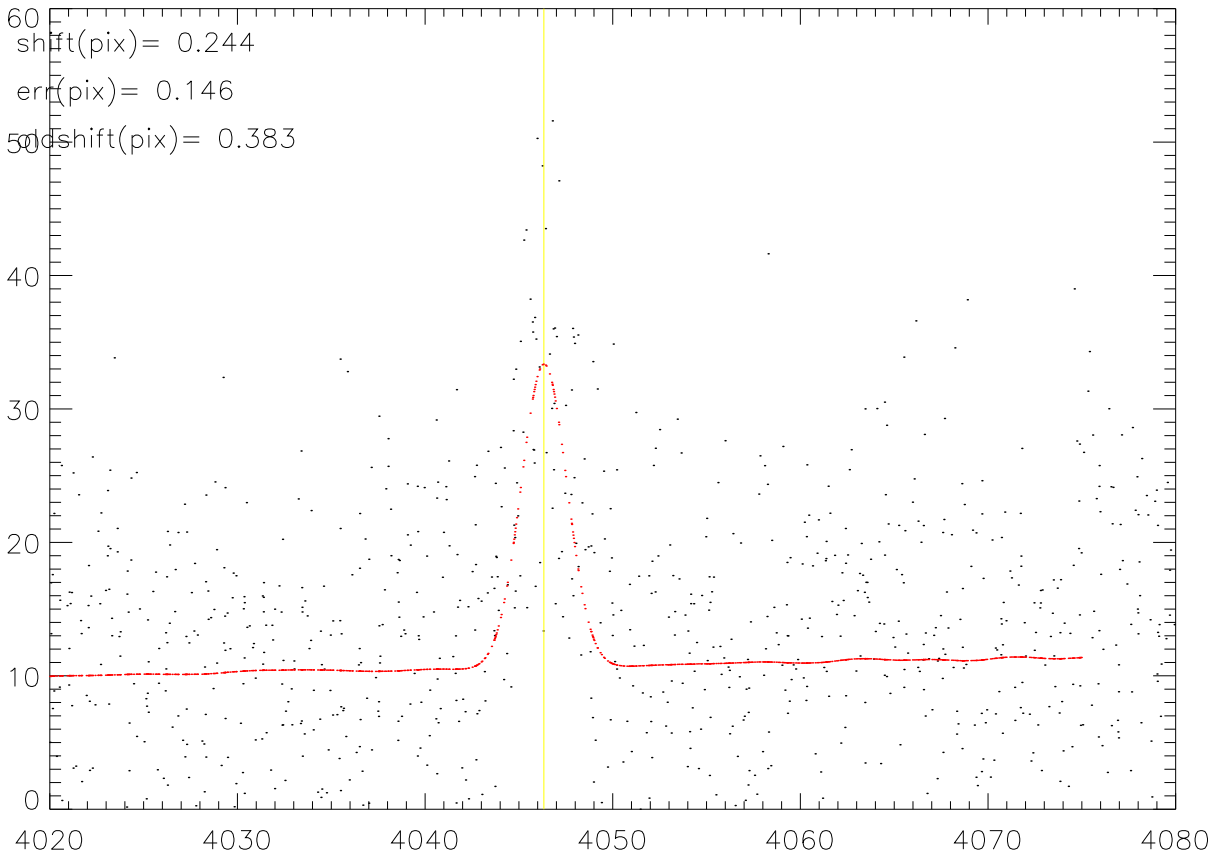

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-b1-00016914.f
Brightness [electrons/pix]
0
1
2
3
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 1.457
Max value = 2.286
Mon Feb 11 13:52:42 2008

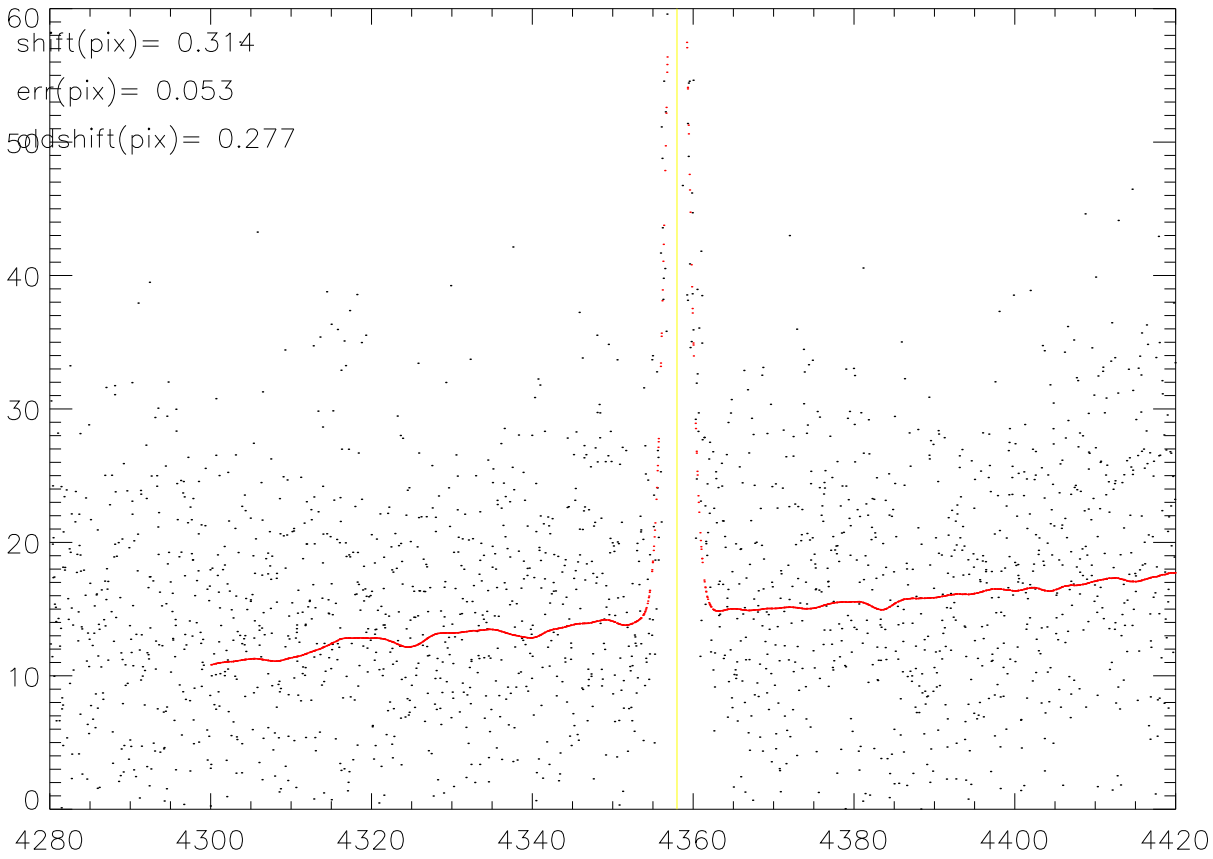

PLATE=1066 MJD=52589 Scattered Light on sdR-b1-00016914.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
1.18
0.91

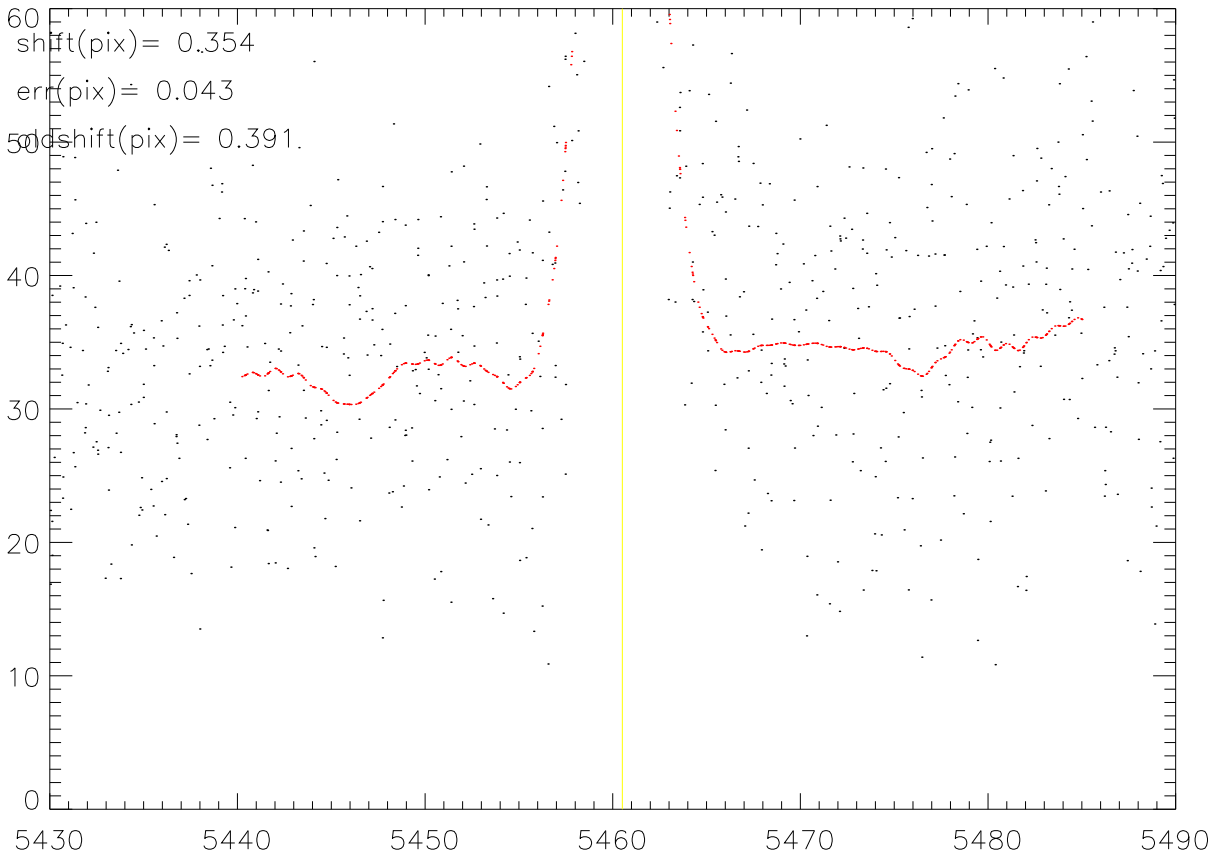

PLATE=1066 MJD=52589 Scattered Light on sdR-b1-00016914.fit
Brightness [electrons/pix]
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.870
Max value = 1.230
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 13:54:59 2008

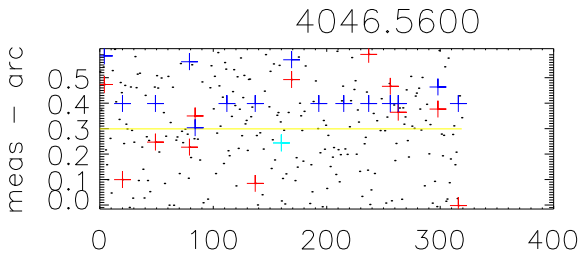

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-b1-00016914.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

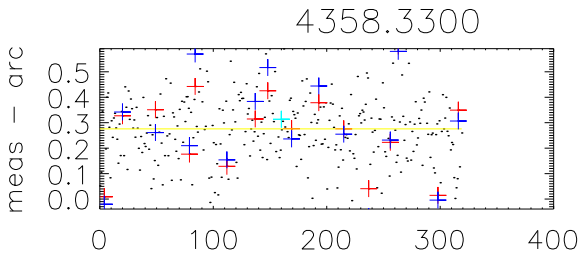

4046.5600
off: 0.38
sig: 0.142
4358.3300
off: 0.28
sig: 0.048
5460.9400
off: 0.39
sig: 0.038
5577.3390
off: 0.39
sig: 0.004
5889.9500
off: 0.41
sig: 0.008
5895.9240
off: 0.48
sig: 0.012

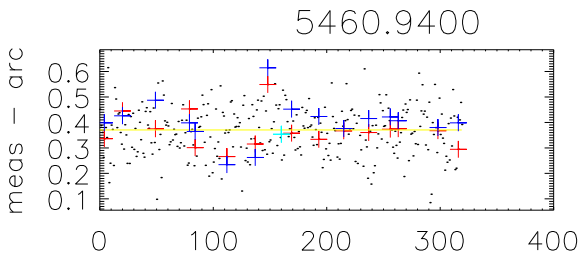

shift(pix)= 0.244
err(pix)= 0.146
oldshift(pix)= 0.383
60
50
40
30
20
10
0
4020
4030
4040
4050
4060
4070
4080

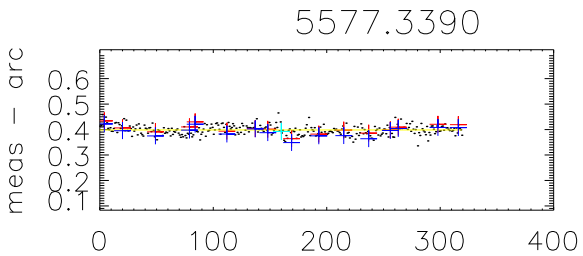

shift(pix)= 0.314
err(pix)= 0.053
oldshift(pix)= 0.277
60
50
40
30
20
10
0
4280
4300
4320
4340
4360
4380
4400
4420

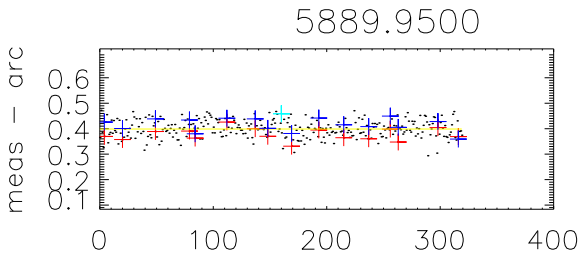

shift(pix)= 0.354
err(pix)= 0.043
oldshift(pix)= 0.391
60
50
40
30
20
10
0
5430
5440
5450
5460
5470
5480
5490

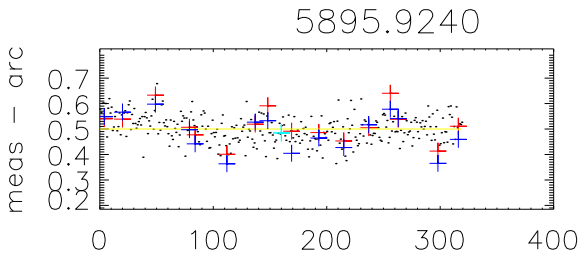

4046.5600
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

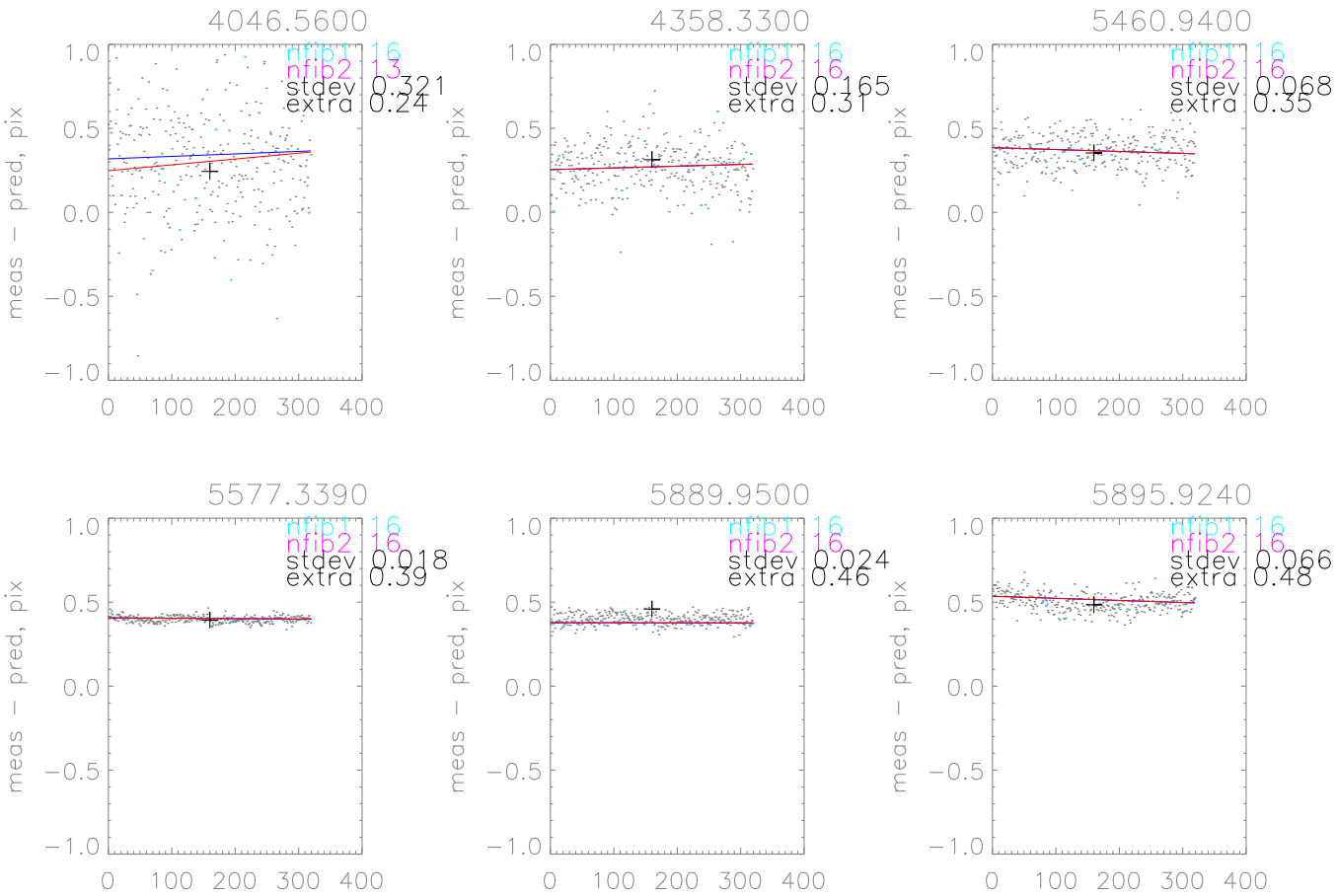

4358.3300
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

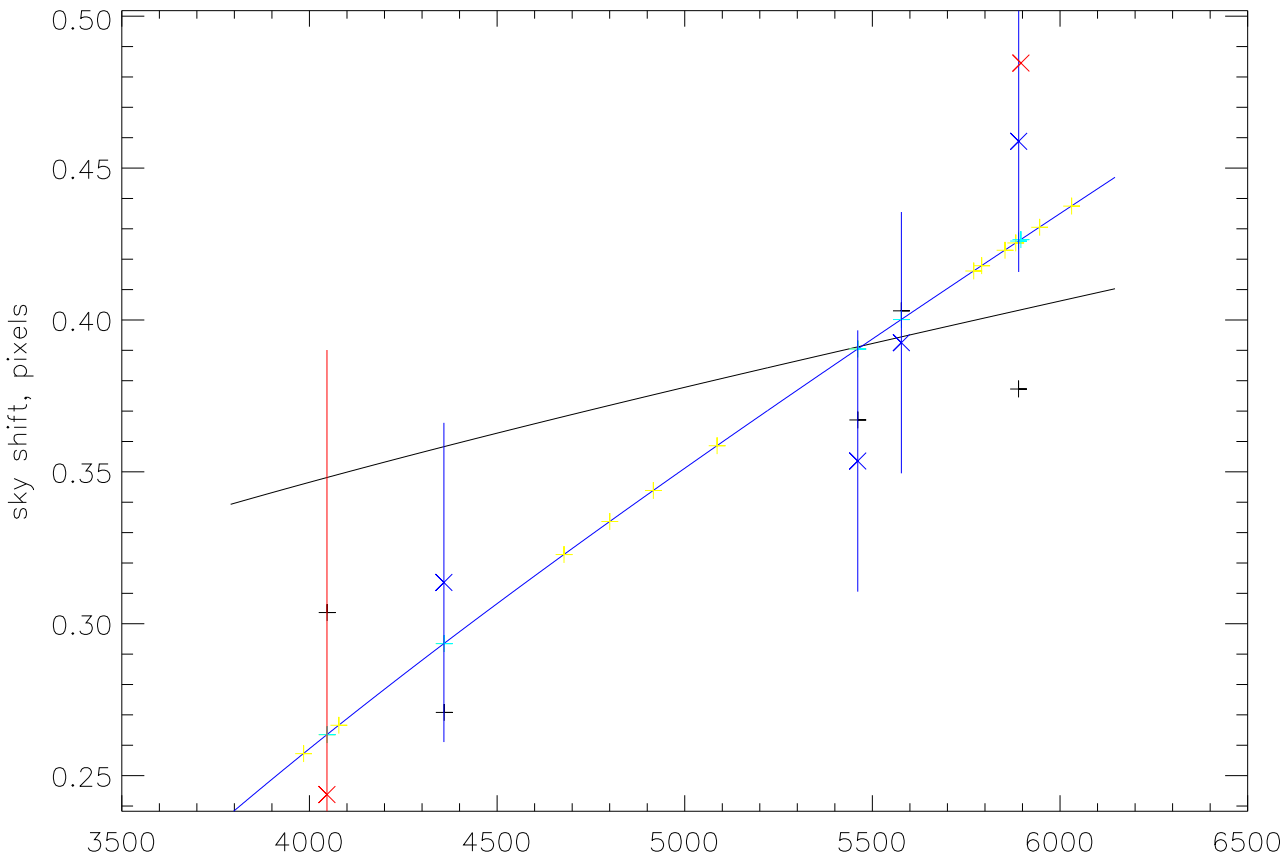

5460.9400
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

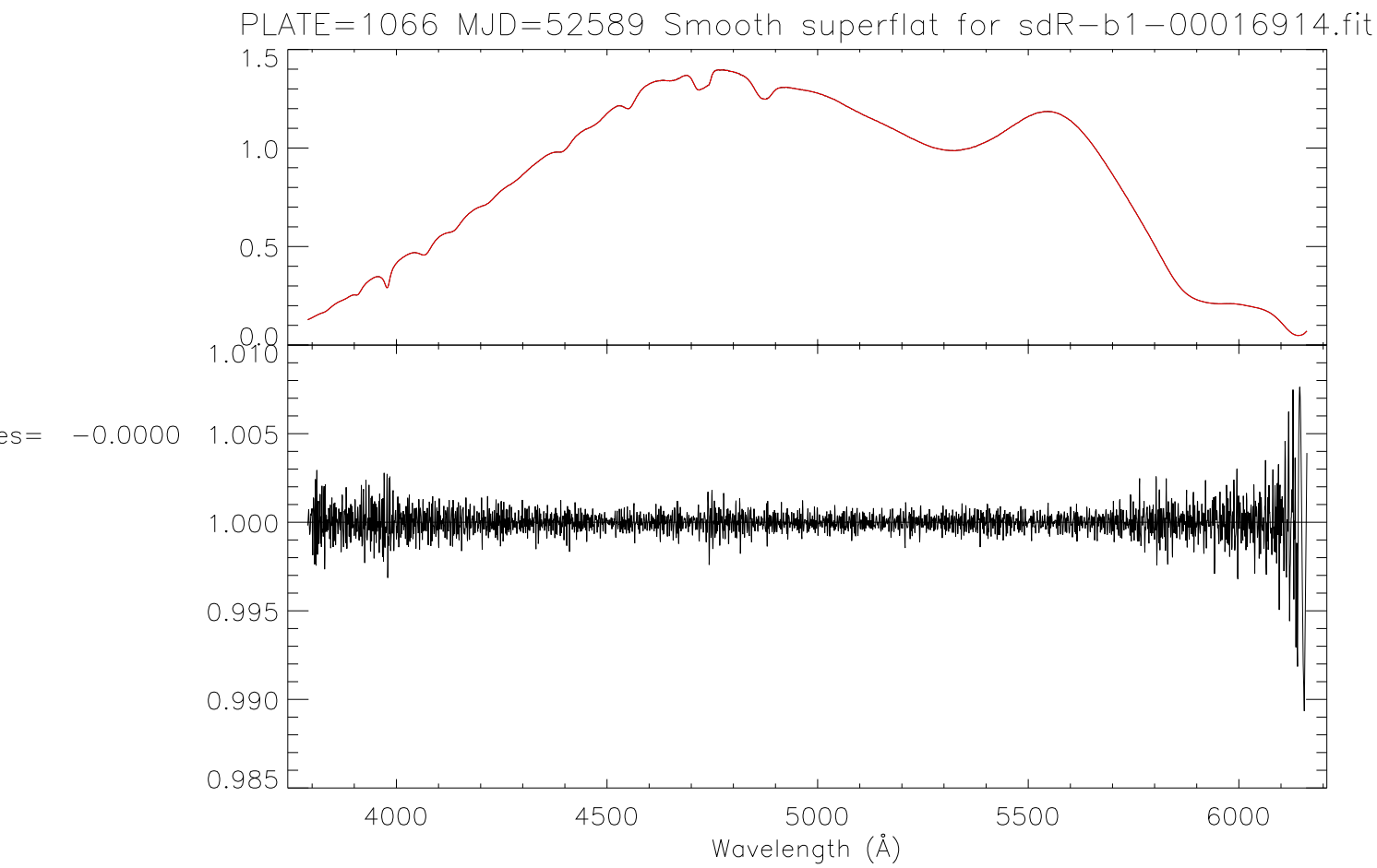

5577.3390
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

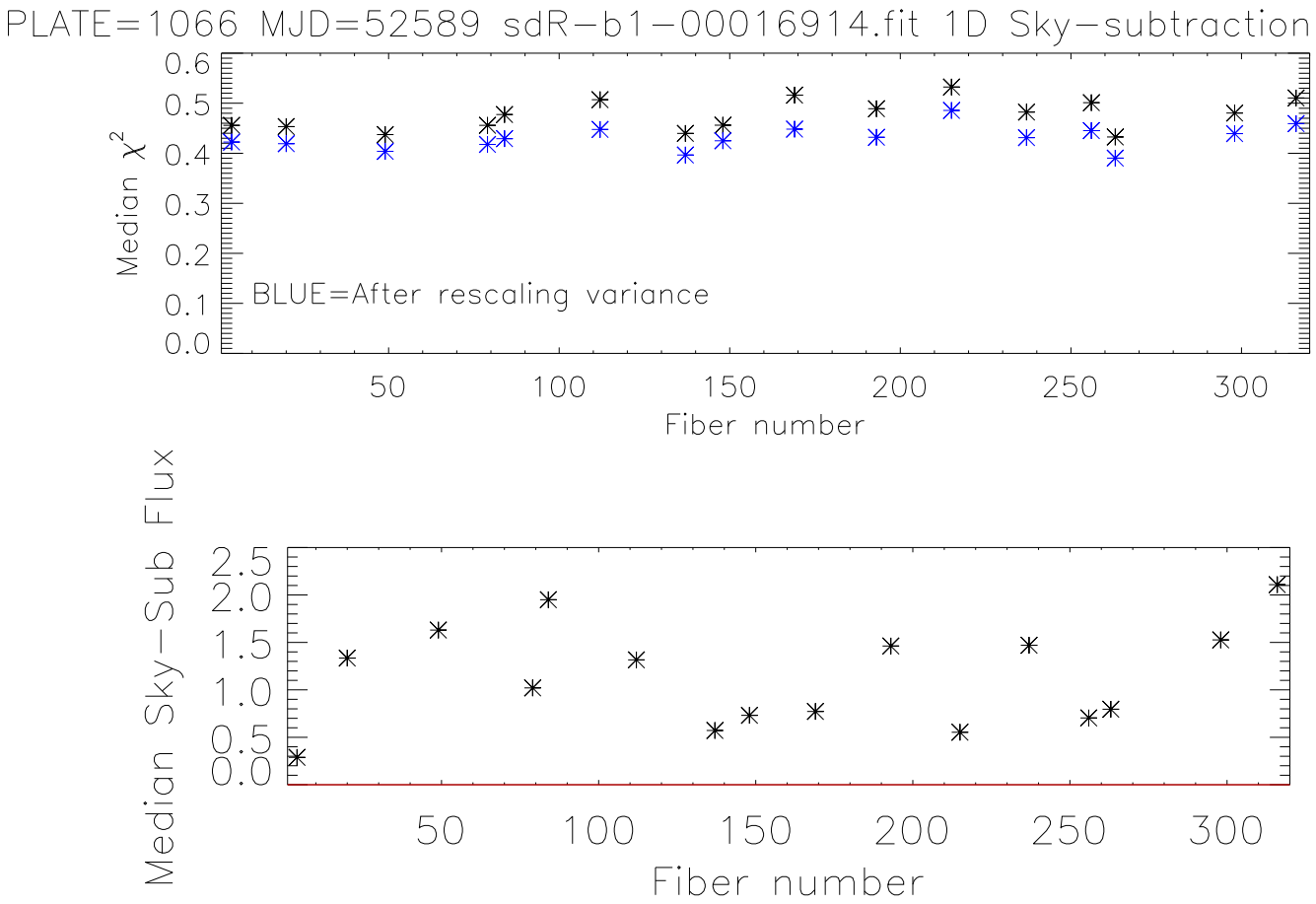

5889.9500
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

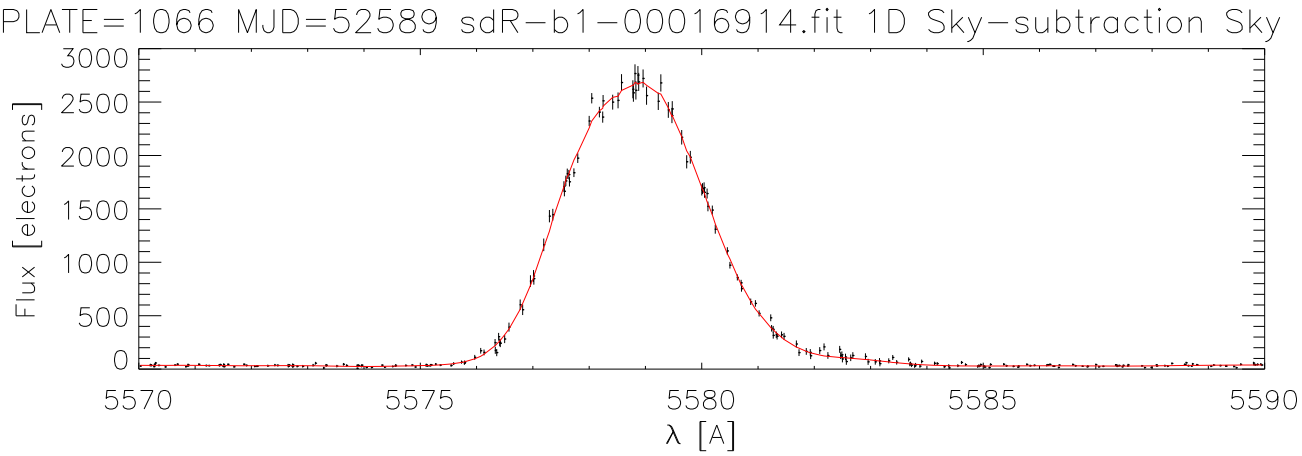

5895.9240
meas − arc
0.2
0.3
0.4
0.5
0.6
0.7
0
100
200
300
400

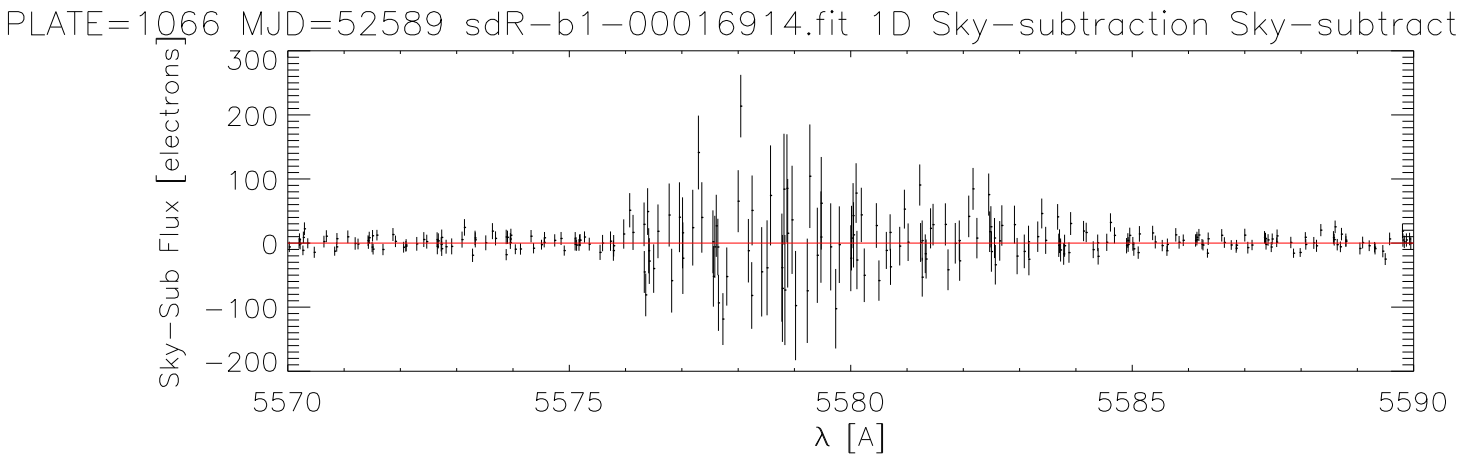

4046.5600
nfib1 16
nfib2 13
stdev 0.321
extra 0.24
4358.3300
nfib1 16
nfib2 16
stdev 0.165
extra 0.31
5460.9400
nfib1 16
nfib2 16
stdev 0.068
extra 0.35
5577.3390
nfib1 16
nfib2 16
stdev 0.018
extra 0.39
5889.9500
nfib1 16
nfib2 16
stdev 0.024
extra 0.46
5895.9240
nfib1 16
nfib2 16
stdev 0.066
extra 0.48
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

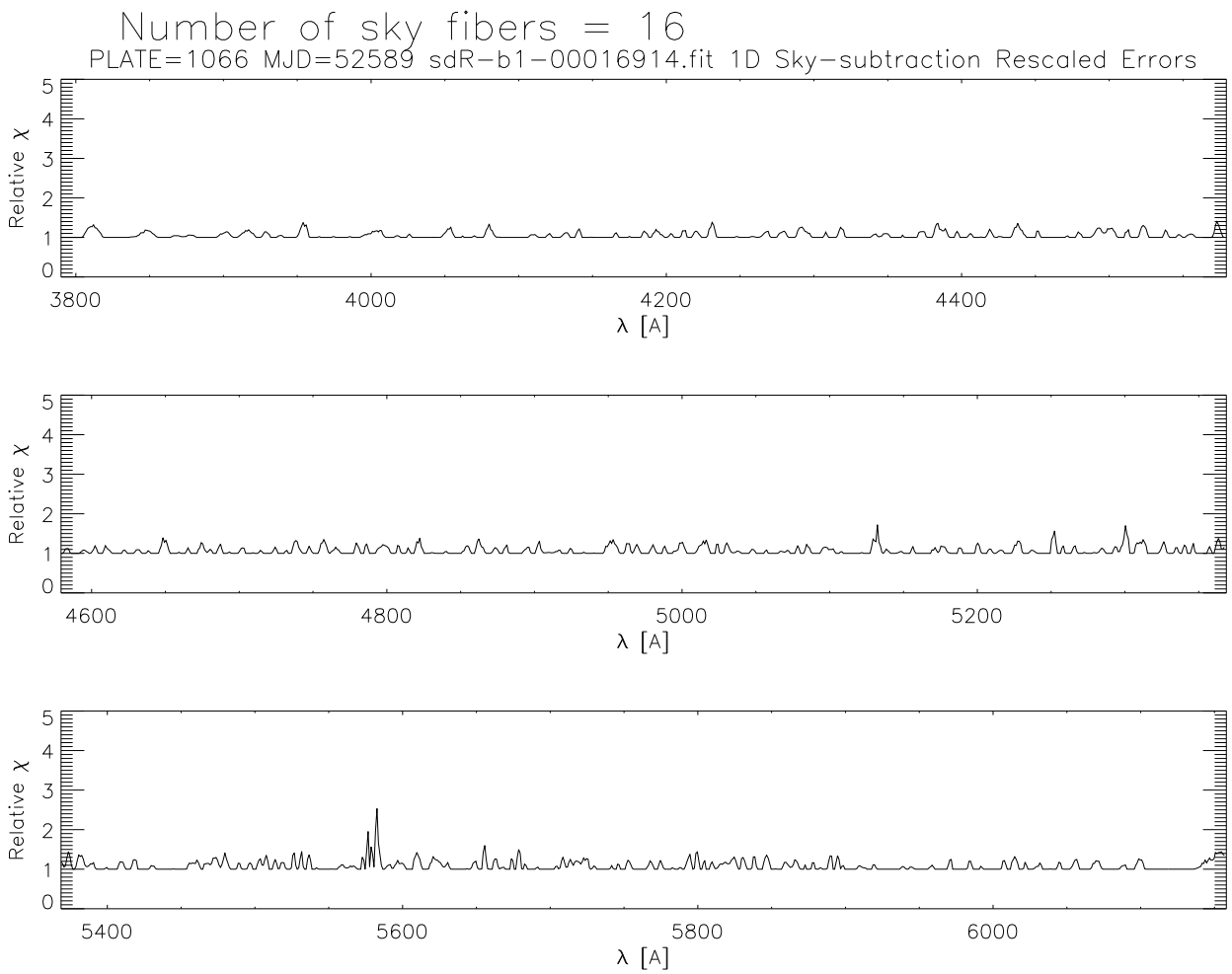

0.50
0.45
0.40
0.35
0.30
0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

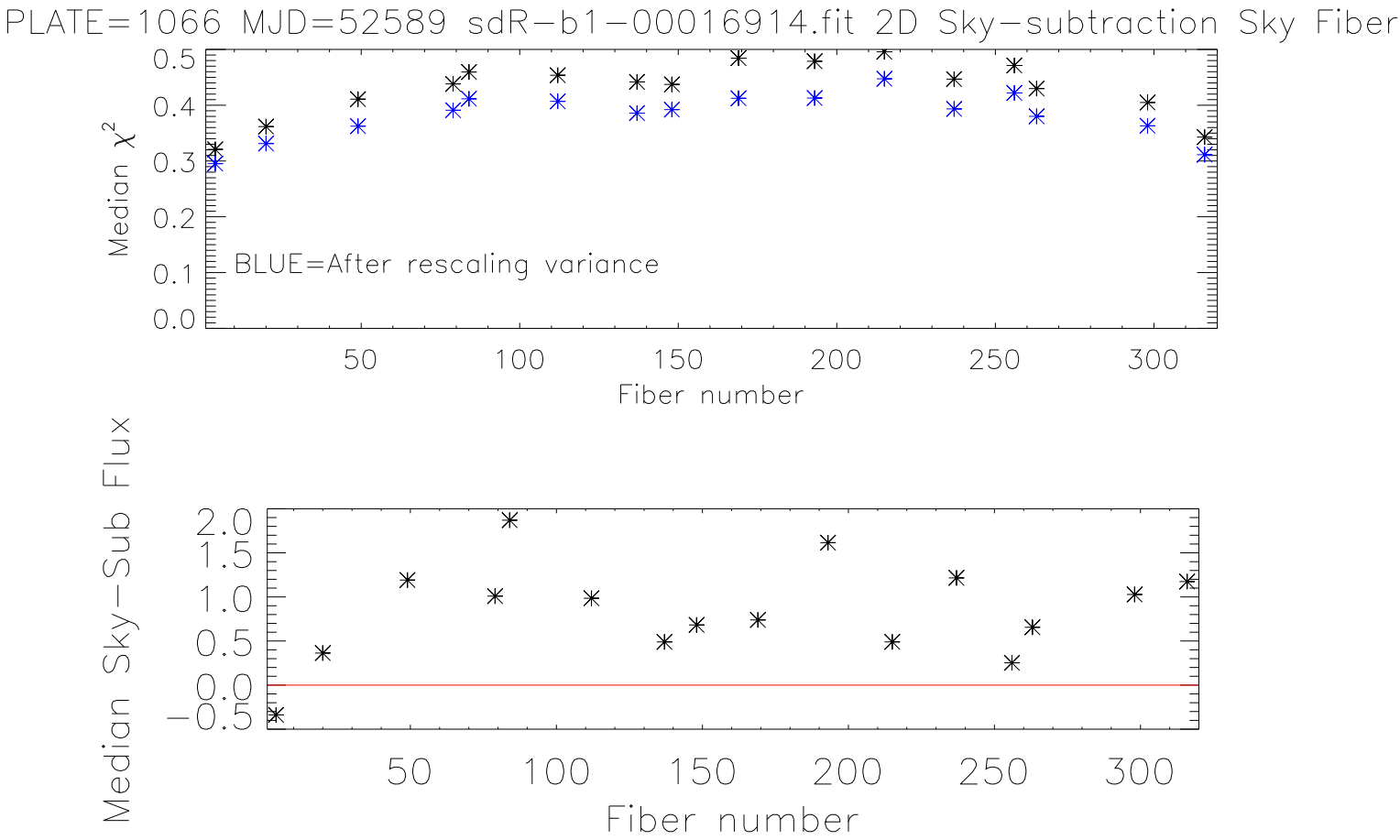

PLATE=1066 MJD=52589 Smooth superflat for sdR-b1-00016914.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

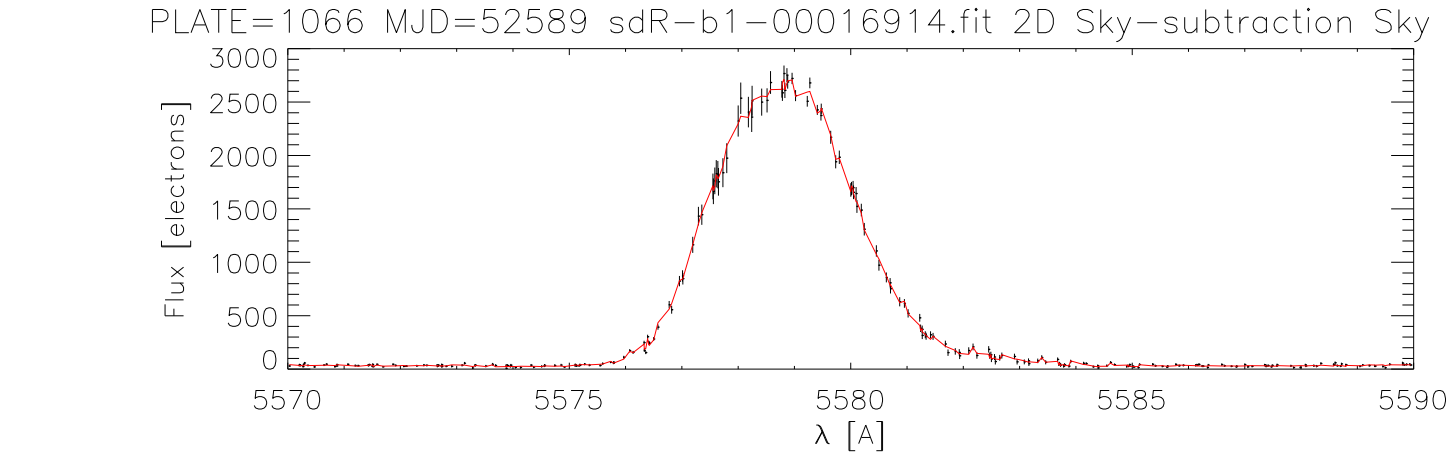

PLATE=1066 MJD=52589 sdR-b1-00016914.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

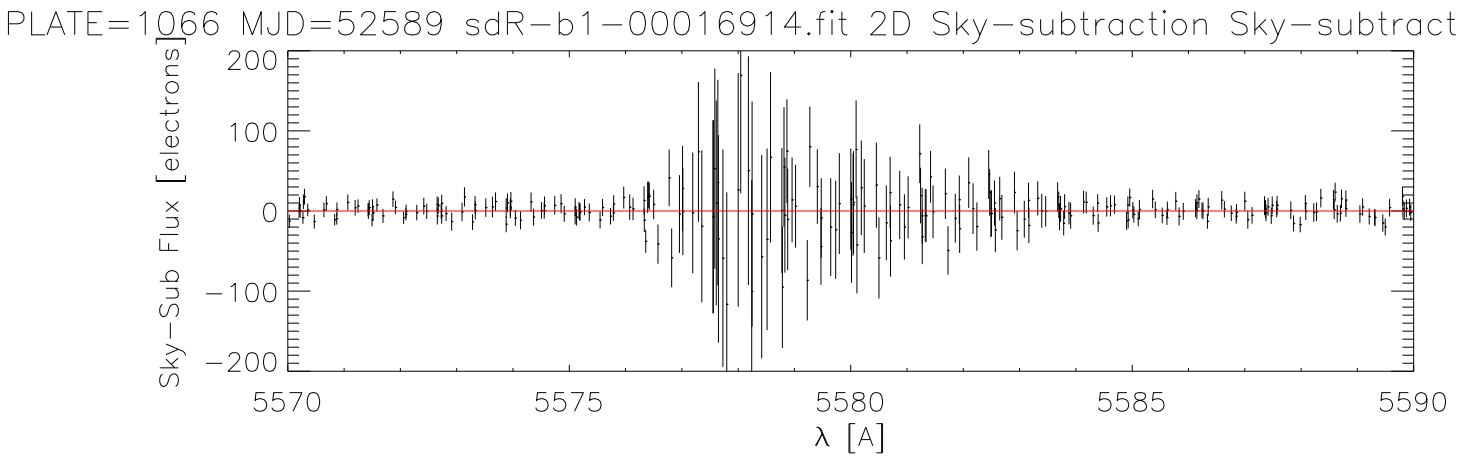

PLATE=1066 MJD=52589 sdR-b1-00016914.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

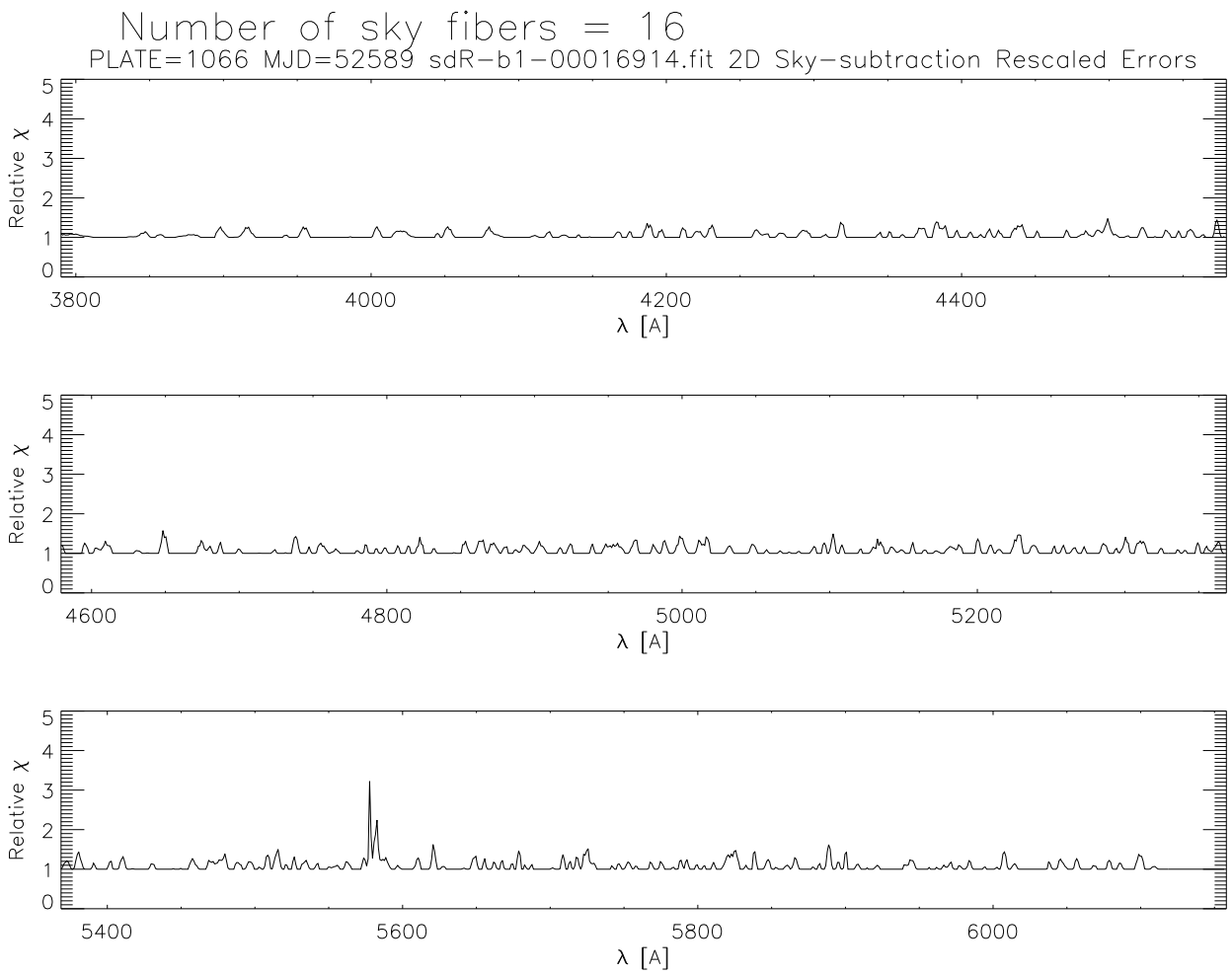

PLATE=1066 MJD=52589 sdR-b1-00016914.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
−100
−200
5570
5575
5580
5585
5590
λ [A]

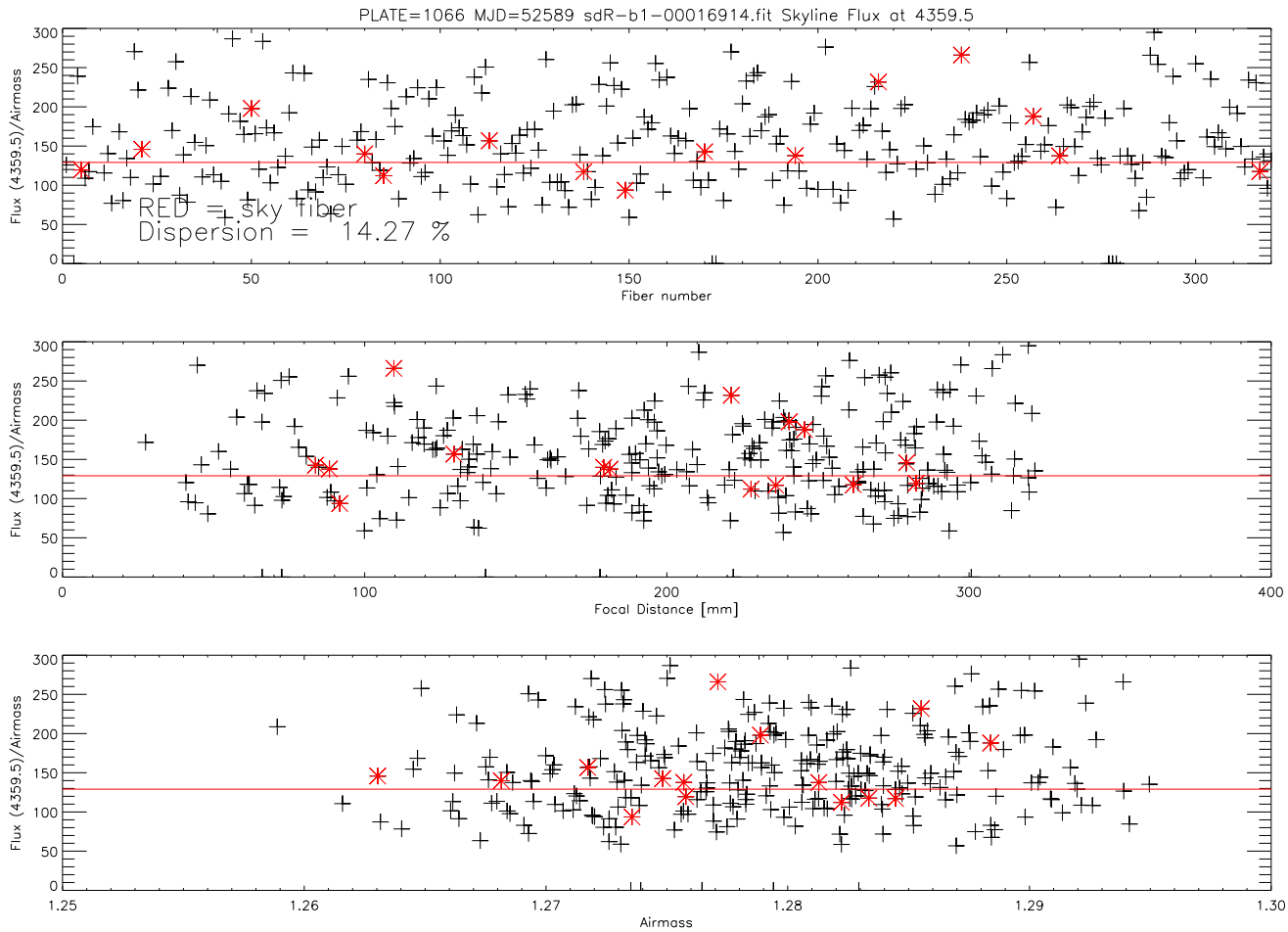

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b1-00016914.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

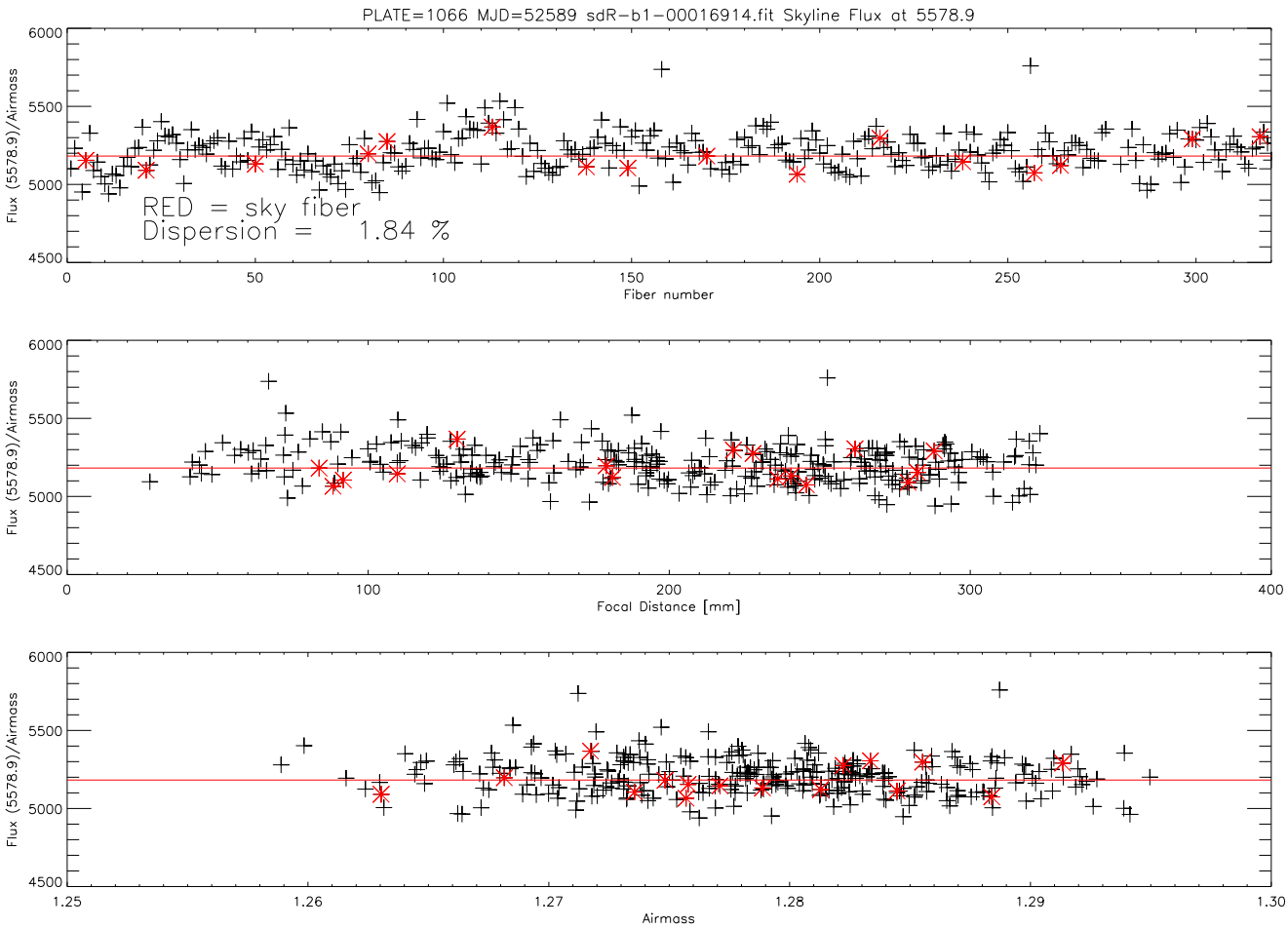

PLATE=1066 MJD=52589 sdR-b1-00016914.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

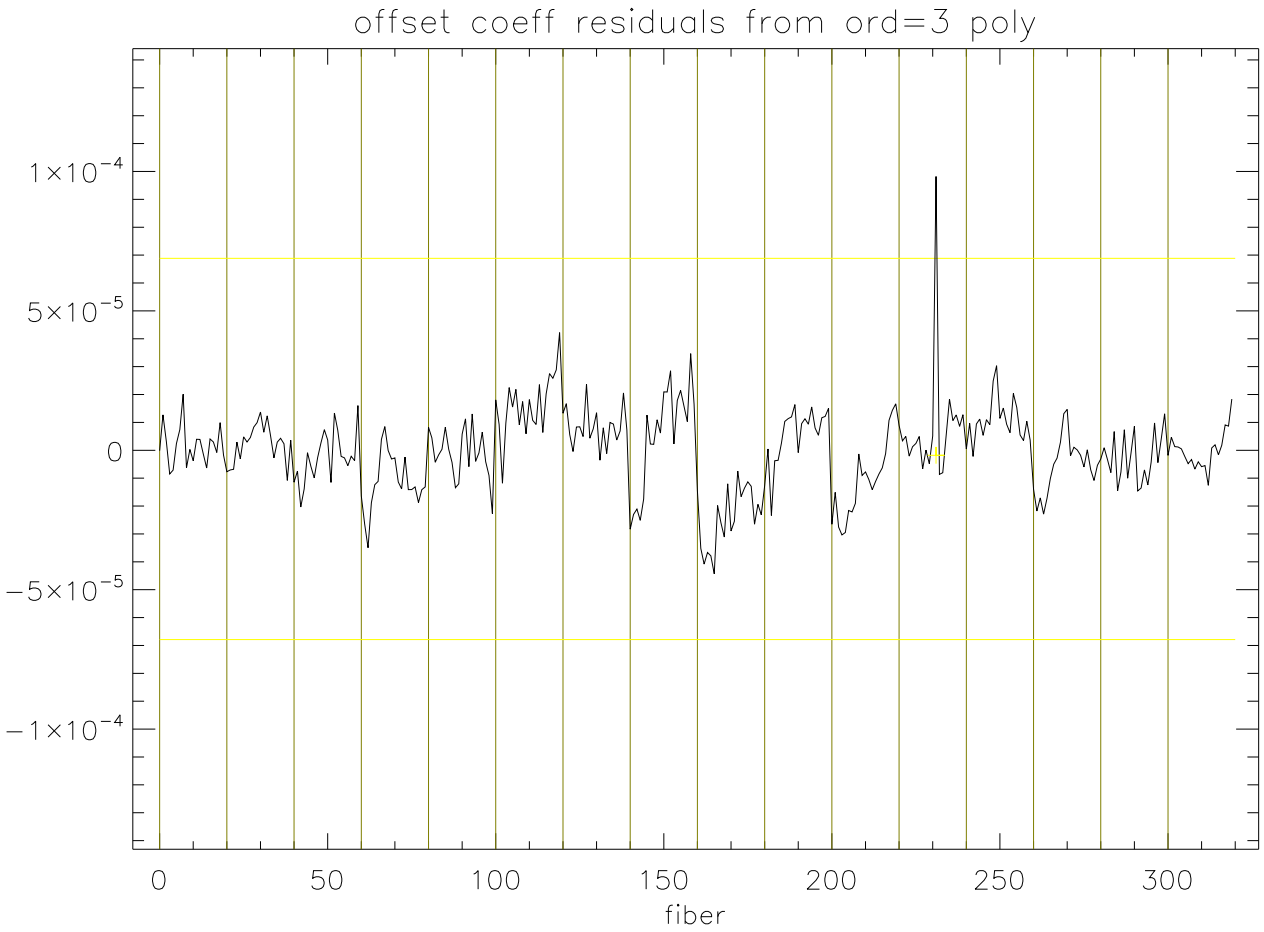

PLATE=1066 MJD=52589 sdR-b1-00016914.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

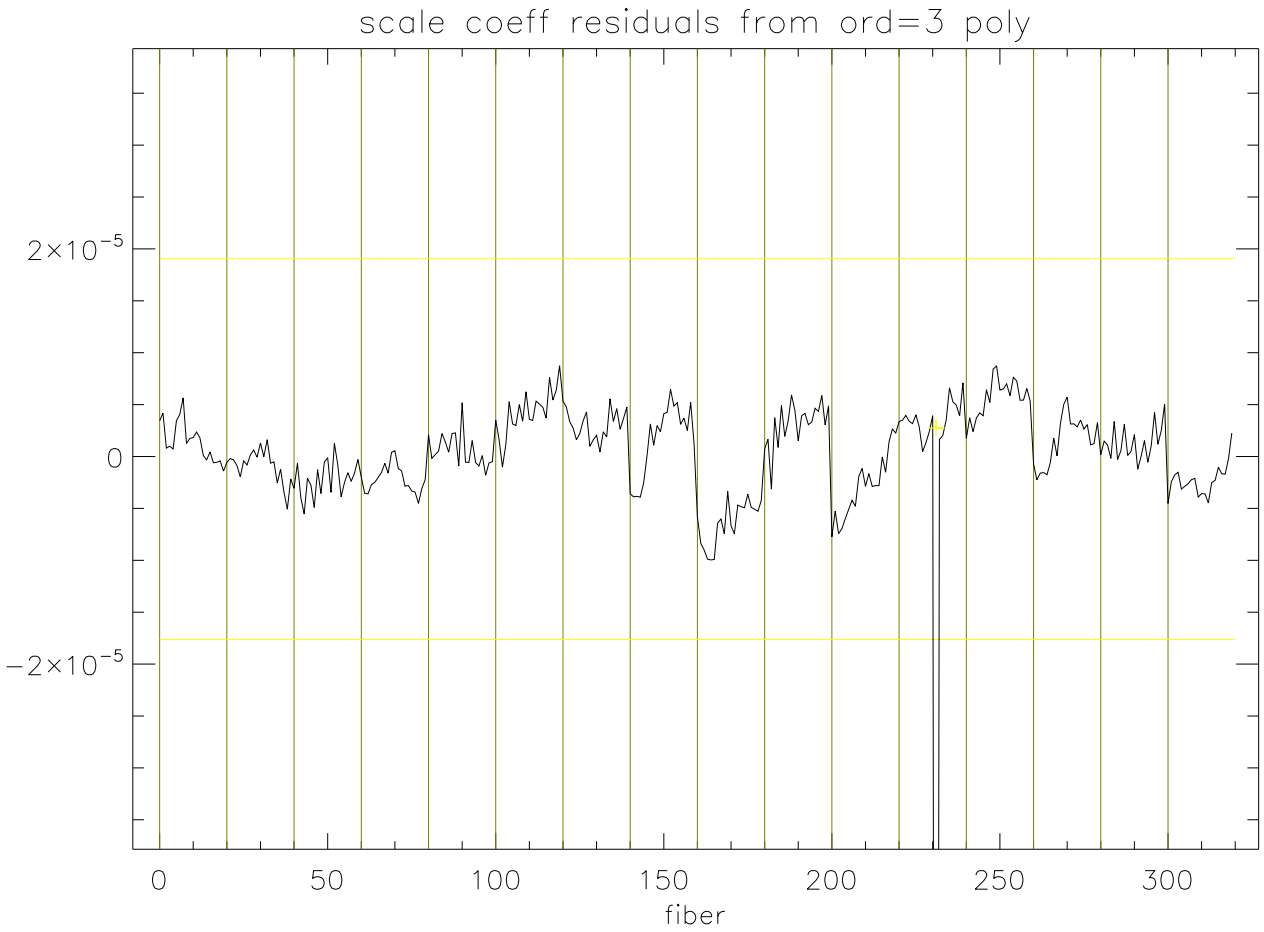

PLATE=1066 MJD=52589 sdR-b1-00016914.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

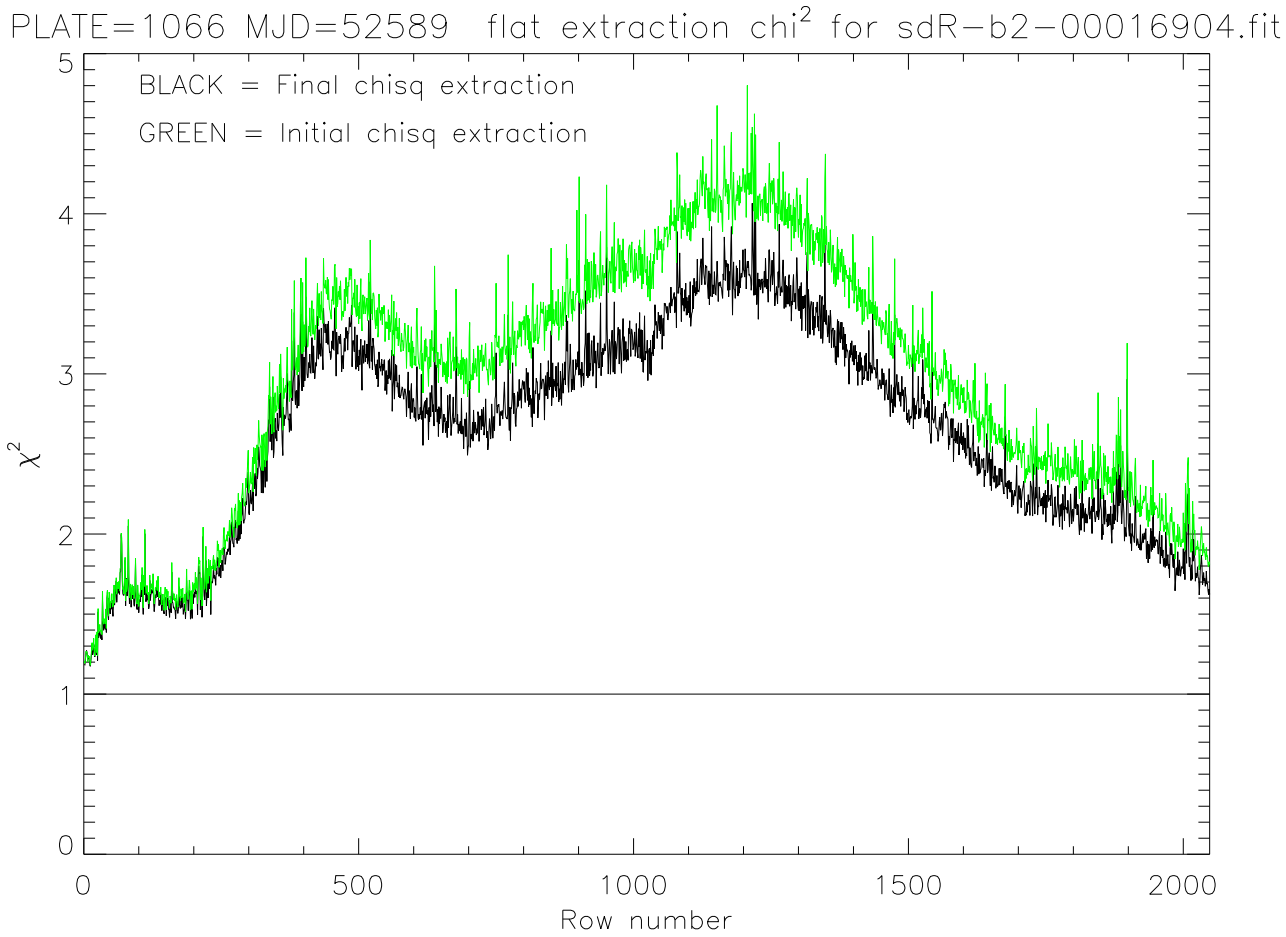

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b1-00016914.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

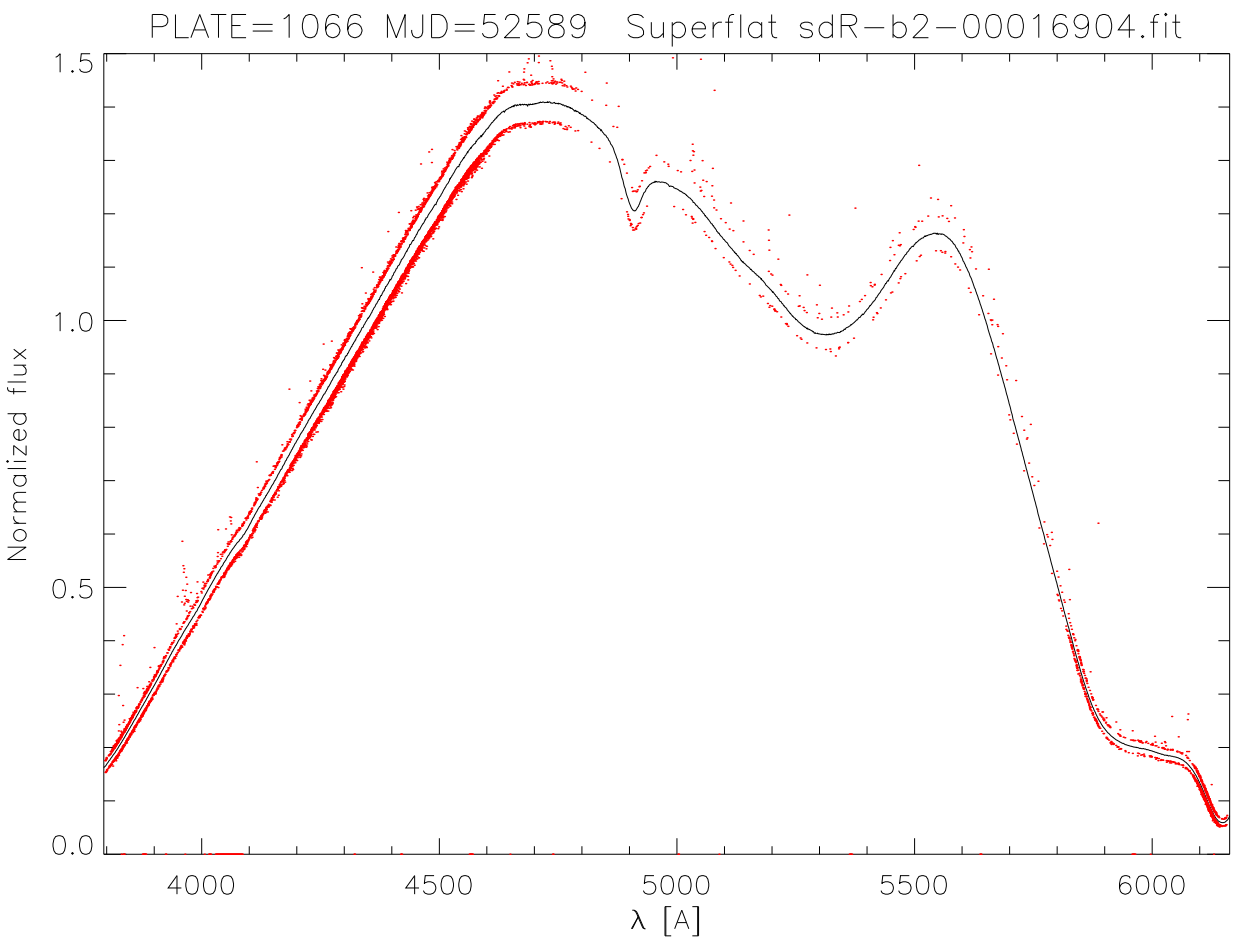

PLATE=1066 MJD=52589 sdR-b1-00016914.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 14.27 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

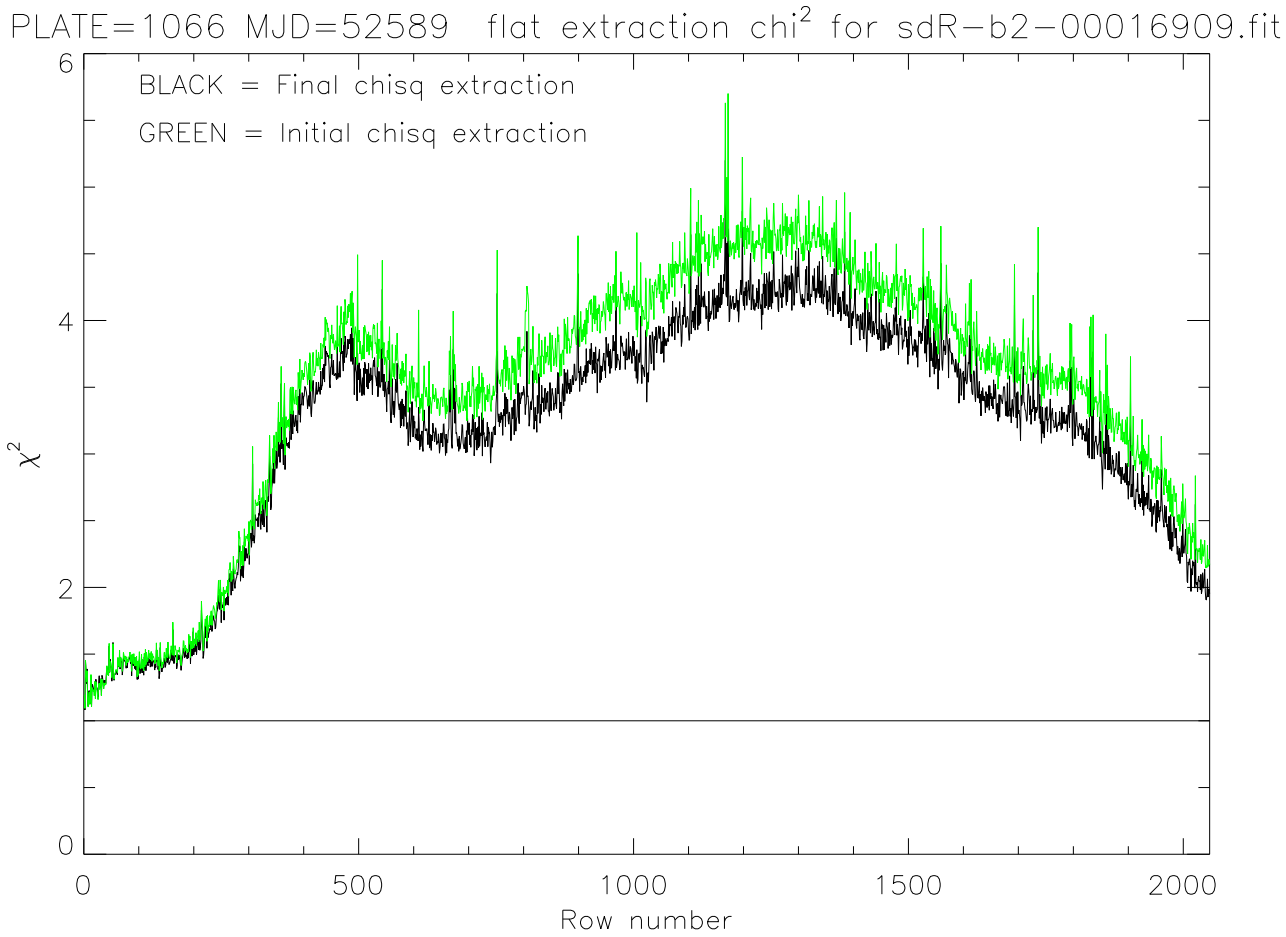

PLATE=1066 MJD=52589 sdR-b1-00016914.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.84 %
Fiber number
Focal Distance [mm]
Airmass

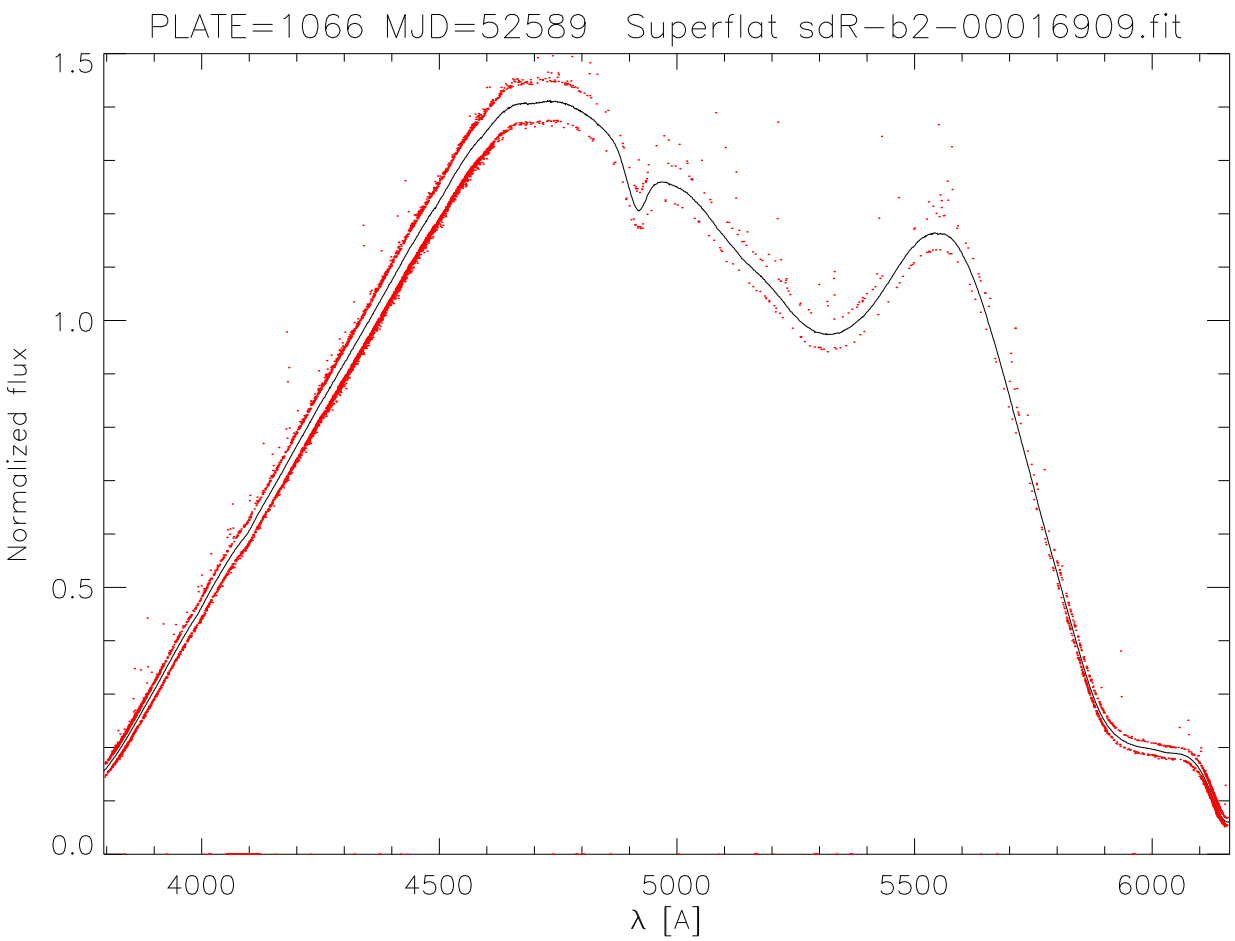

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

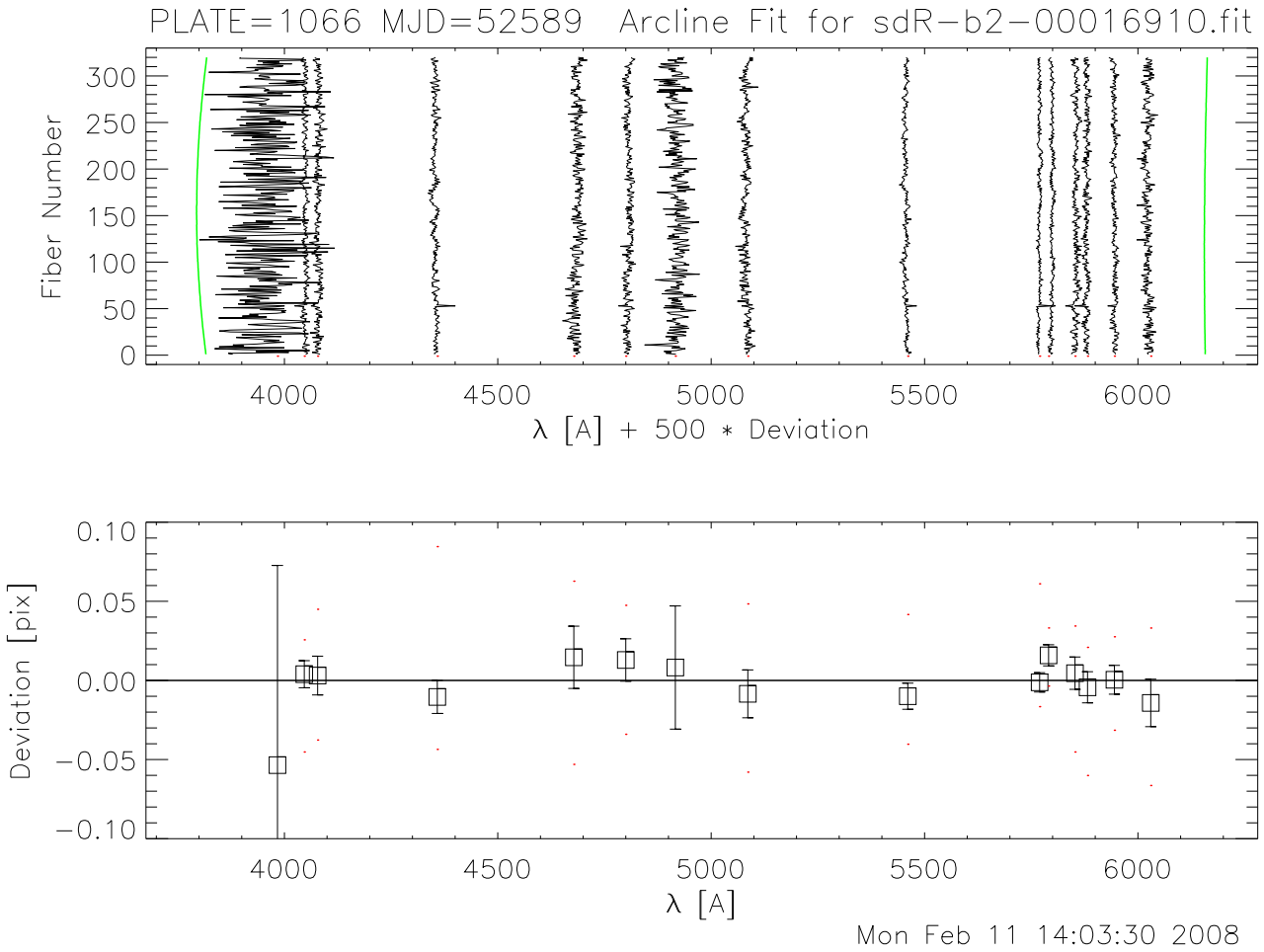

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

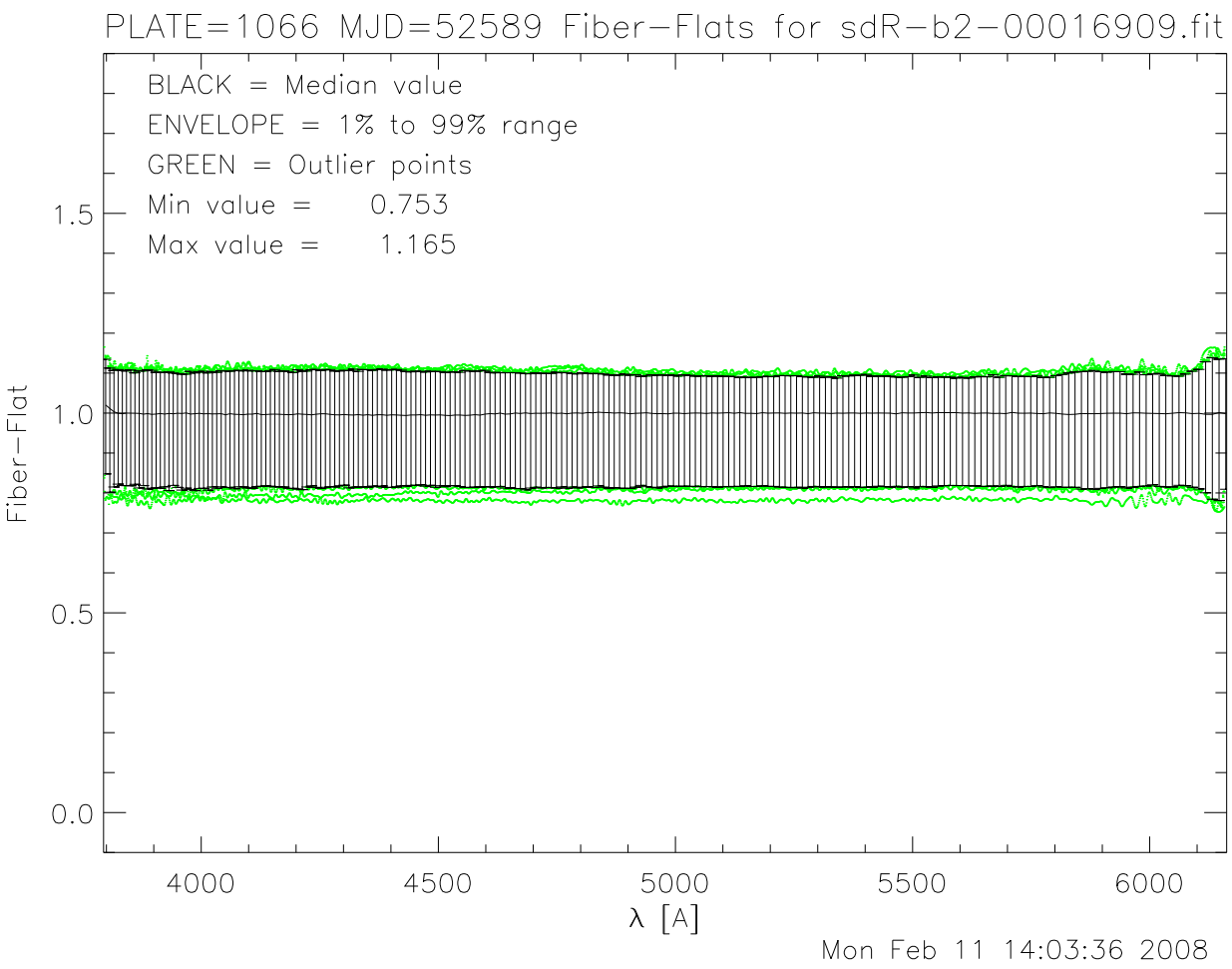

PLATE=1066 MJD=52589 flat extraction chi^2 for sdR−b2−00016904.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

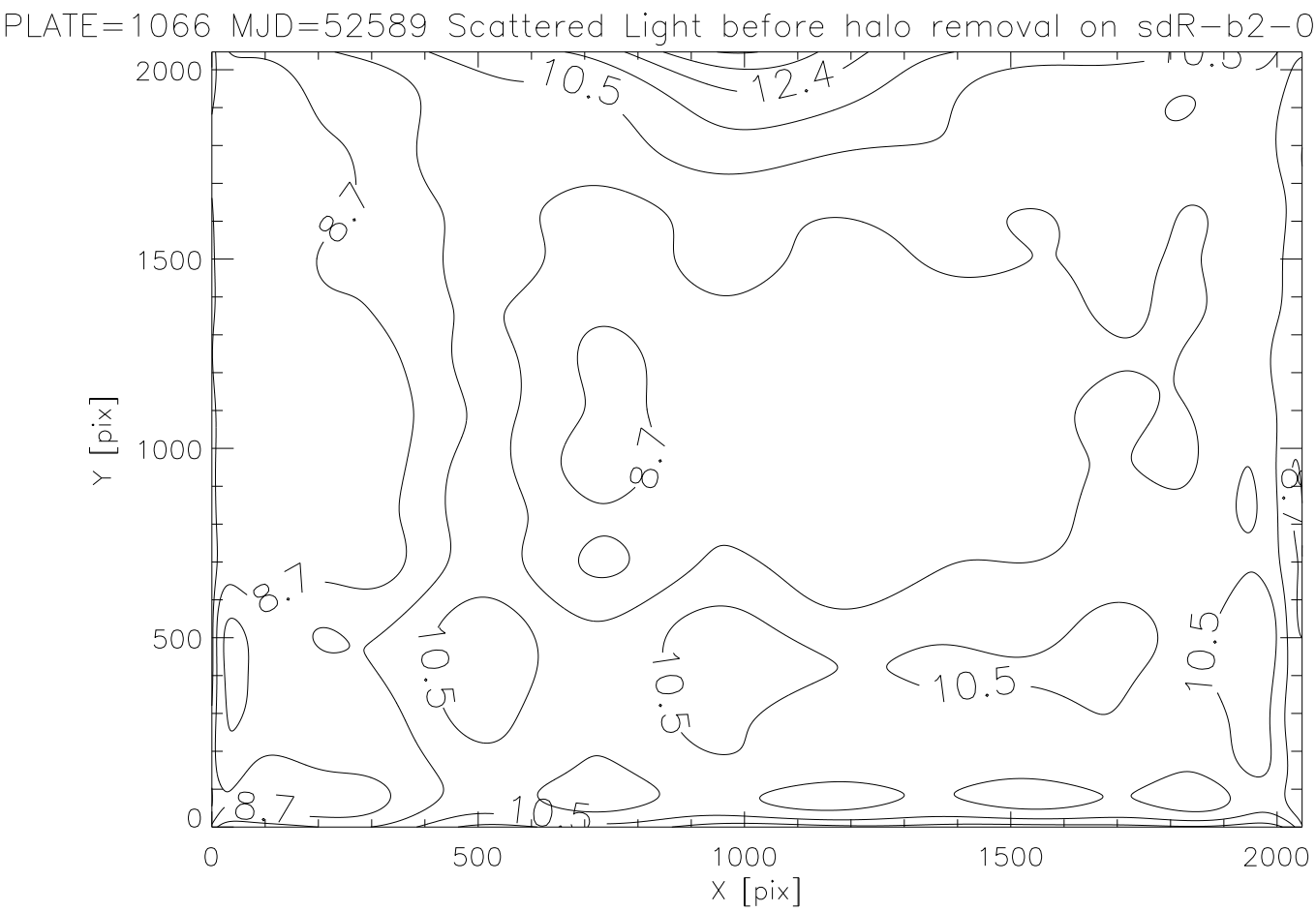

PLATE=1066 MJD=52589 Superflat sdR-b2-00016904.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

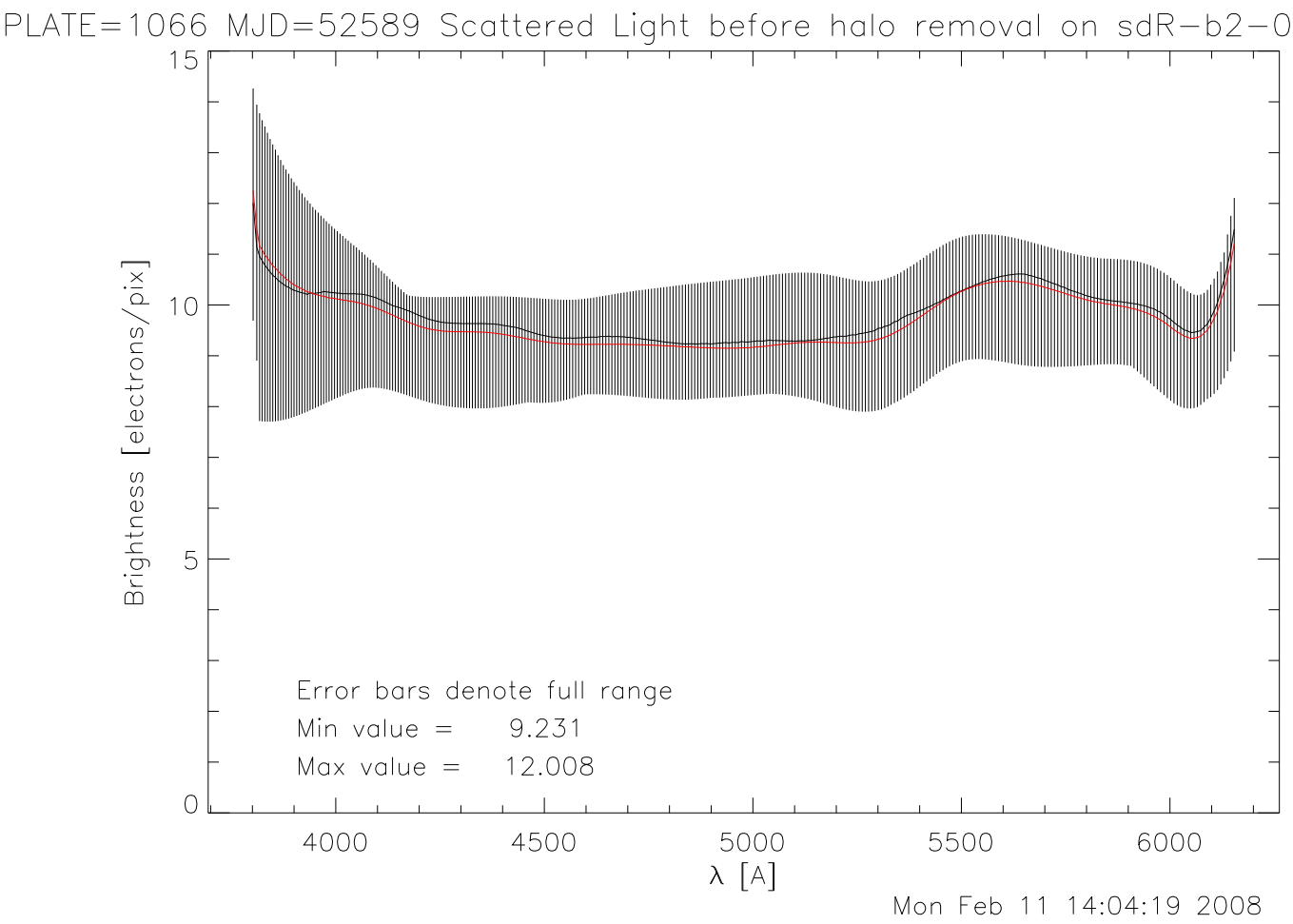

PLATE=1066 MJD=52589 flat extraction chi^2 for sdR−b2−00016909.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

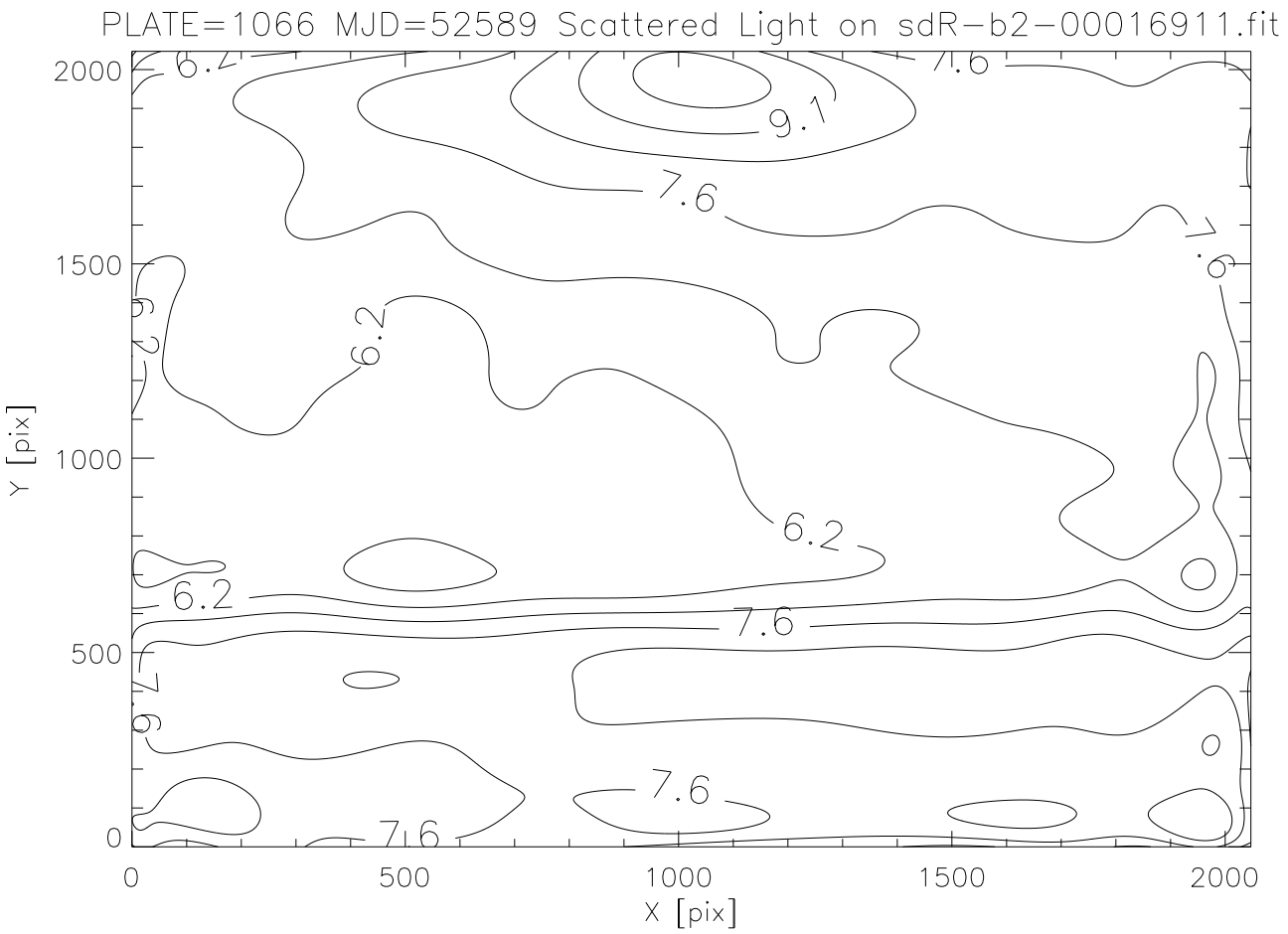

PLATE=1066 MJD=52589 Superflat sdR-b2-00016909.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

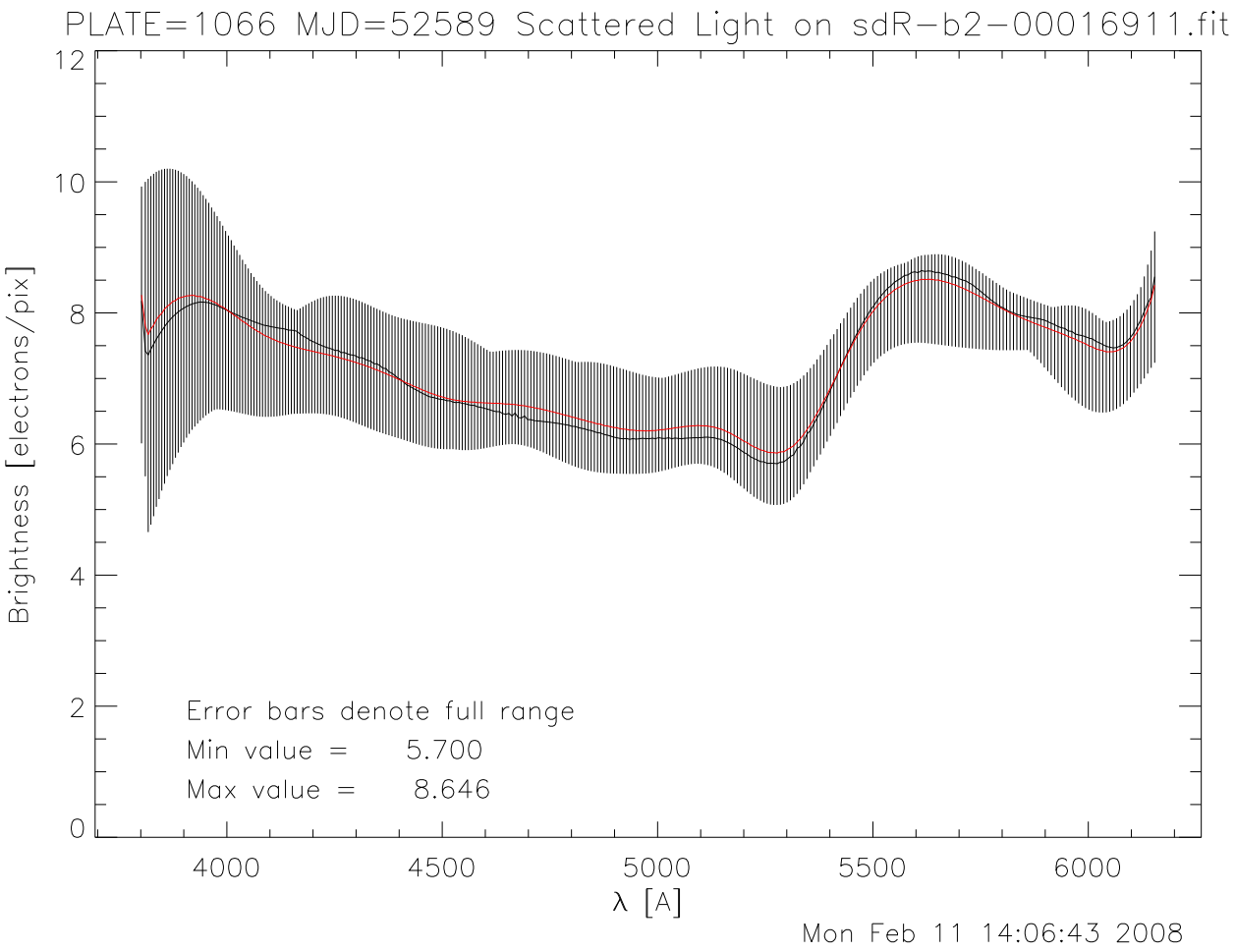

PLATE=1066 MJD=52589 Arcline Fit for sdR-b2-00016910.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 14:03:30 2008

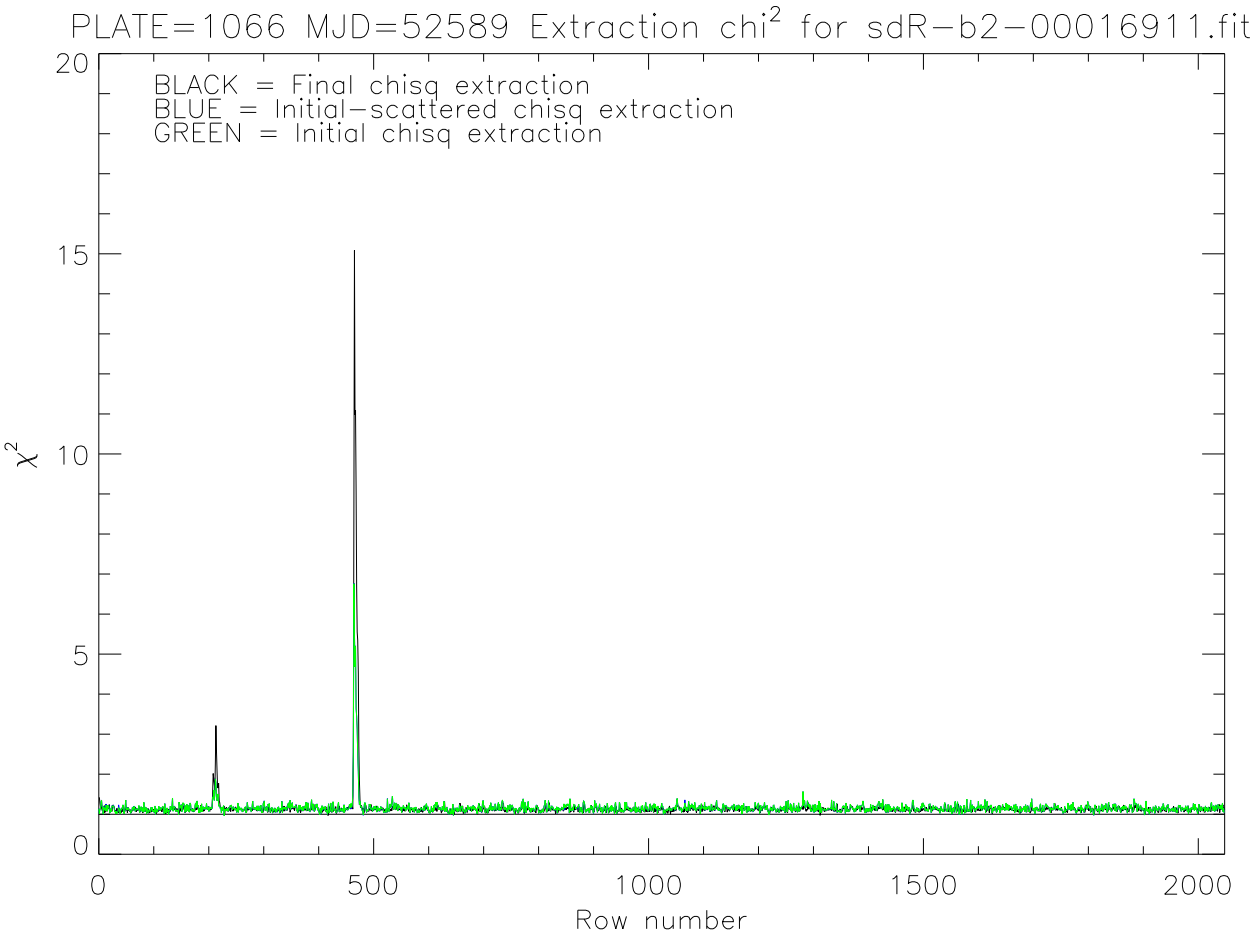

PLATE=1066 MJD=52589 Fiber-Flats for sdR-b2-00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.753
Max value = 1.165
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 14:03:36 2008

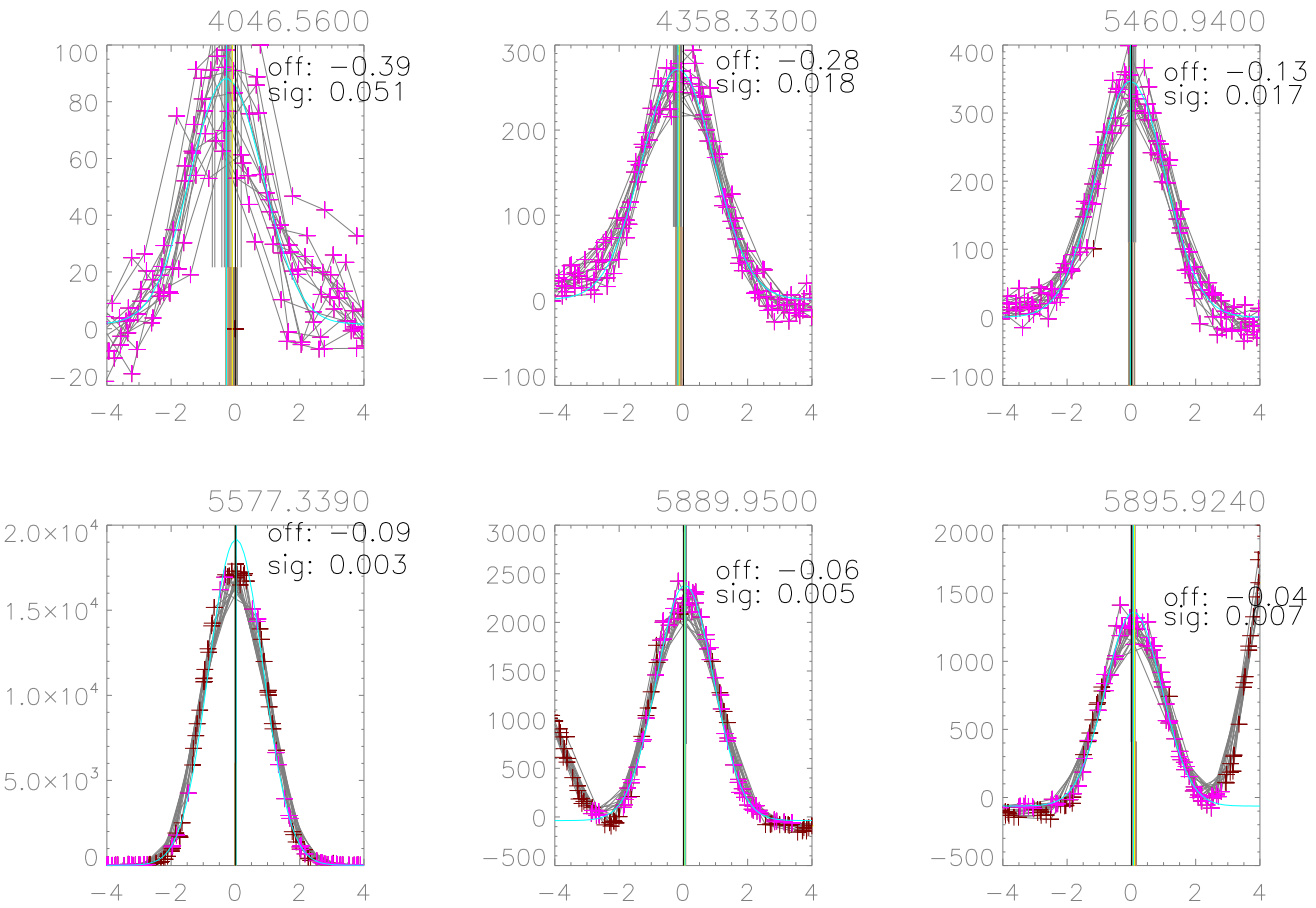

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-b2-00016911.f
10.5
12.4
8.7
10.5
8.7
8.7
10.5
10.5
10.5
8.7
10.5
Y [pix]
X [pix]
0
500
1000
1500
2000

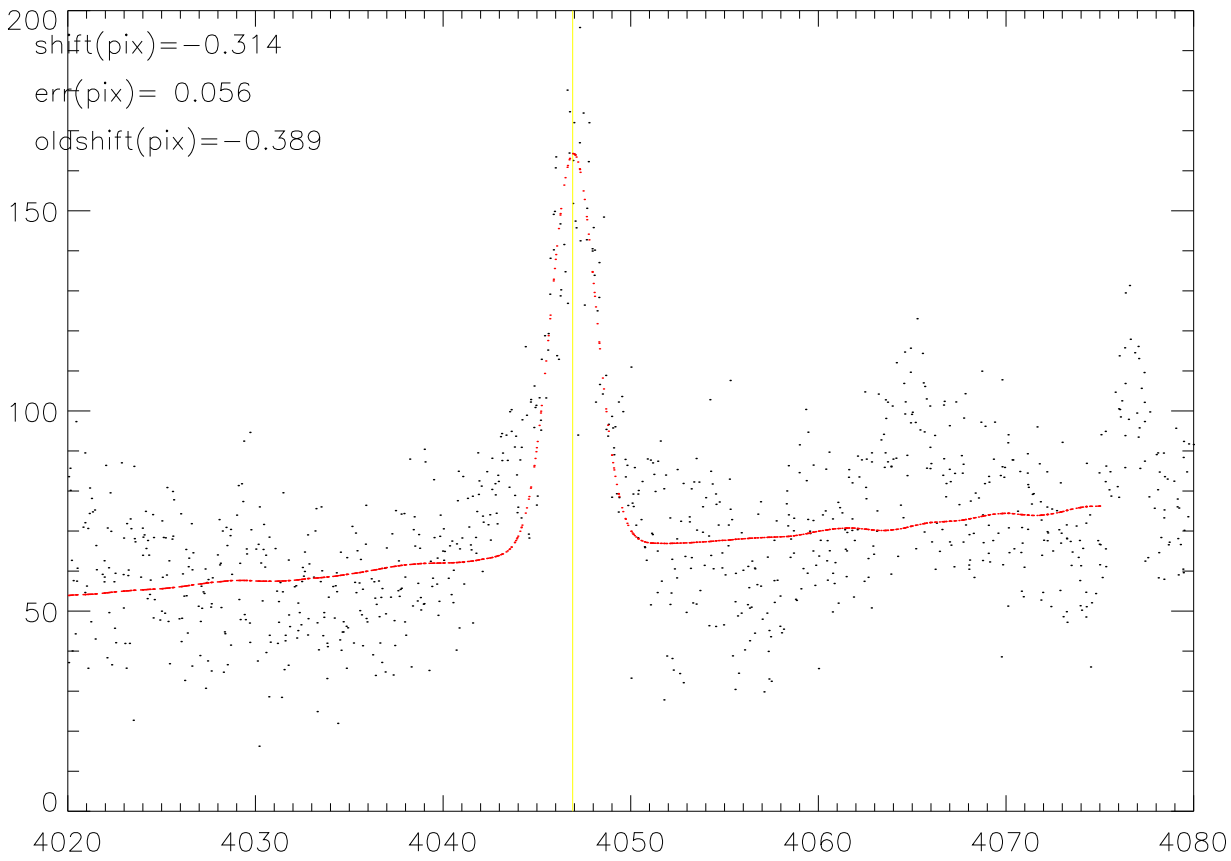

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-b2-00016911.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 9.231
Max value = 12.008
Mon Feb 11 14:04:19 2008

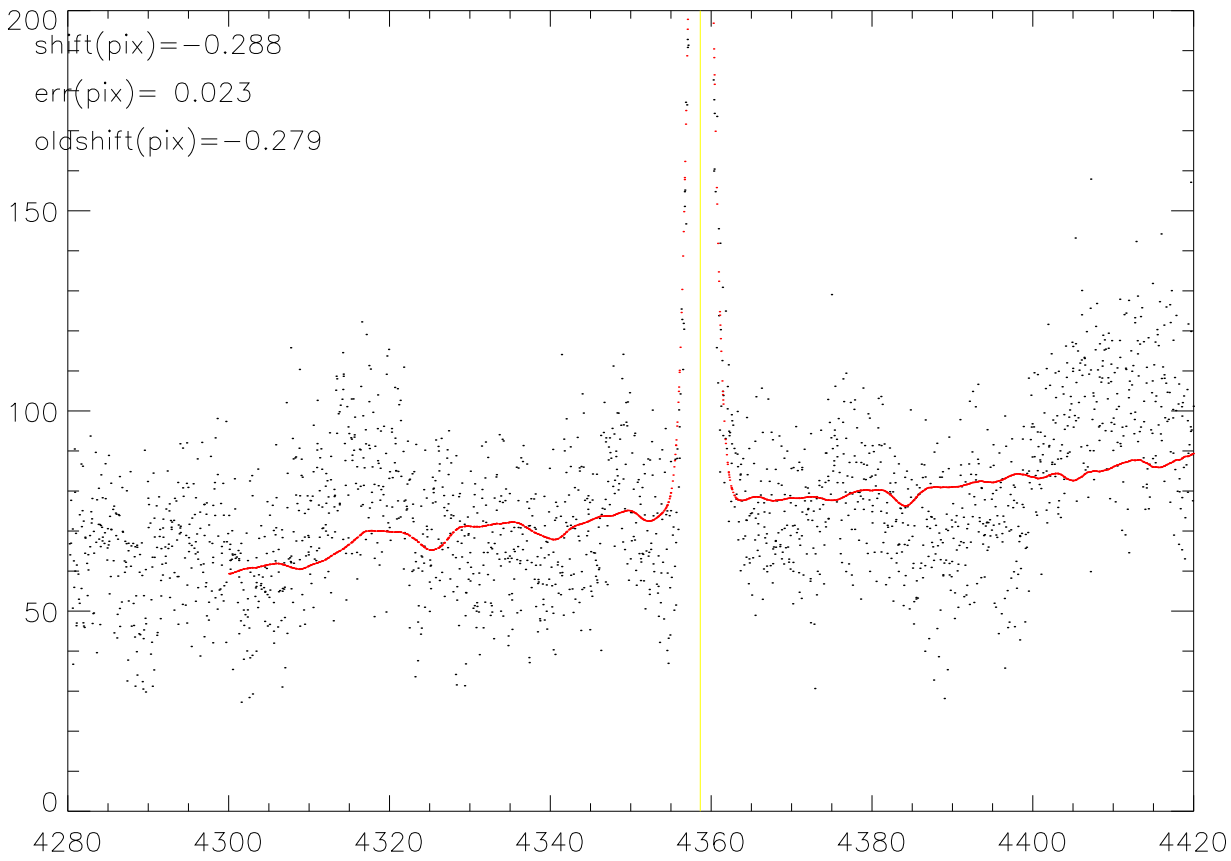

PLATE=1066 MJD=52589 Scattered Light on sdR-b2-00016911.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.2
7.6
9.1
7.6
6.2
6.2
7.6
7.6
7.6
7.6

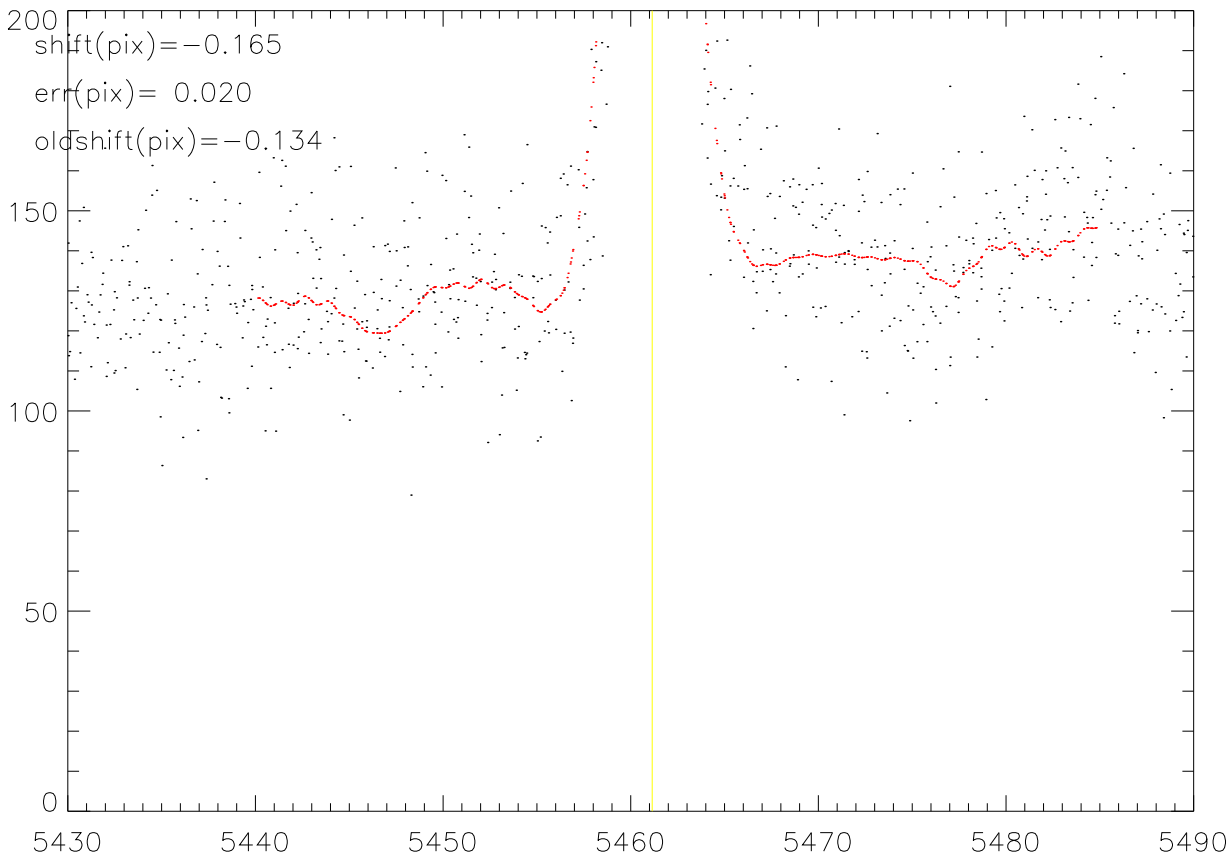

PLATE=1066 MJD=52589 Scattered Light on sdR-b2-00016911.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.700
Max value = 8.646
Mon Feb 11 14:06:43 2008

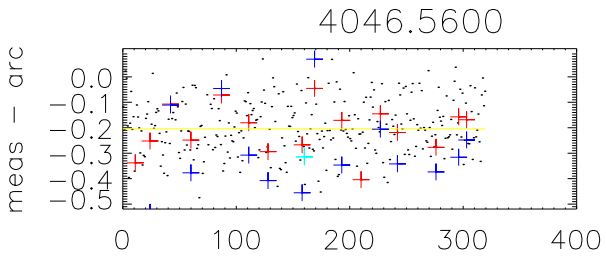

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-b2-00016911.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

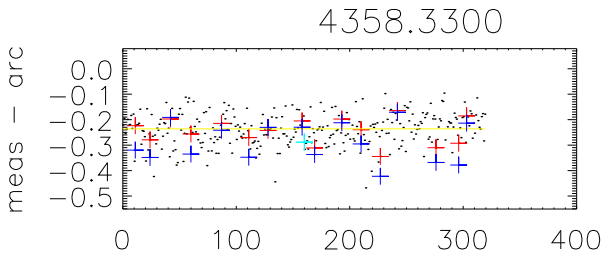

4046.5600
off: −0.39
sig: 0.051
4358.3300
off: −0.28
sig: 0.018
5460.9400
off: −0.13
sig: 0.017
5577.3390
off: −0.09
sig: 0.003
5889.9500
off: −0.06
sig: 0.005
5895.9240
off: −0.04
sig: 0.007

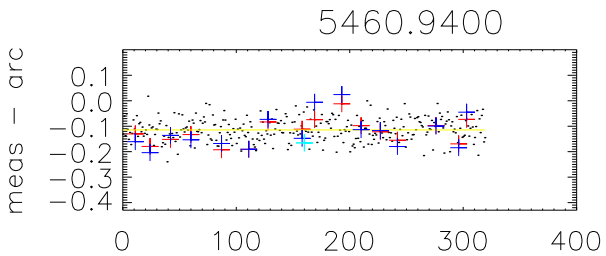

shift(pix)=−0.314
err(pix)= 0.056
oldshift(pix)=−0.389
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

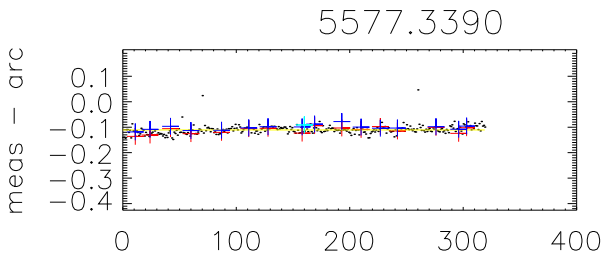

shift(pix)=−0.288
err(pix)= 0.023
oldshift(pix)=−0.279
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

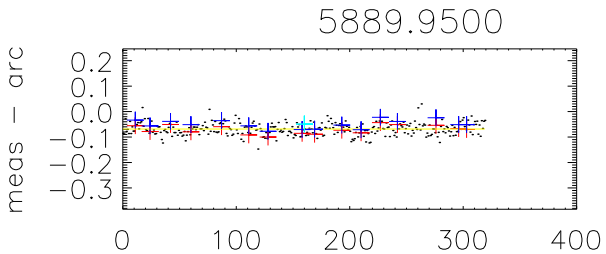

shift(pix)=−0.165
err(pix)= 0.020
oldshift(pix)=−0.134
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

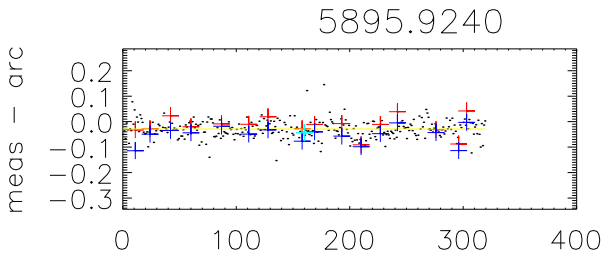

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

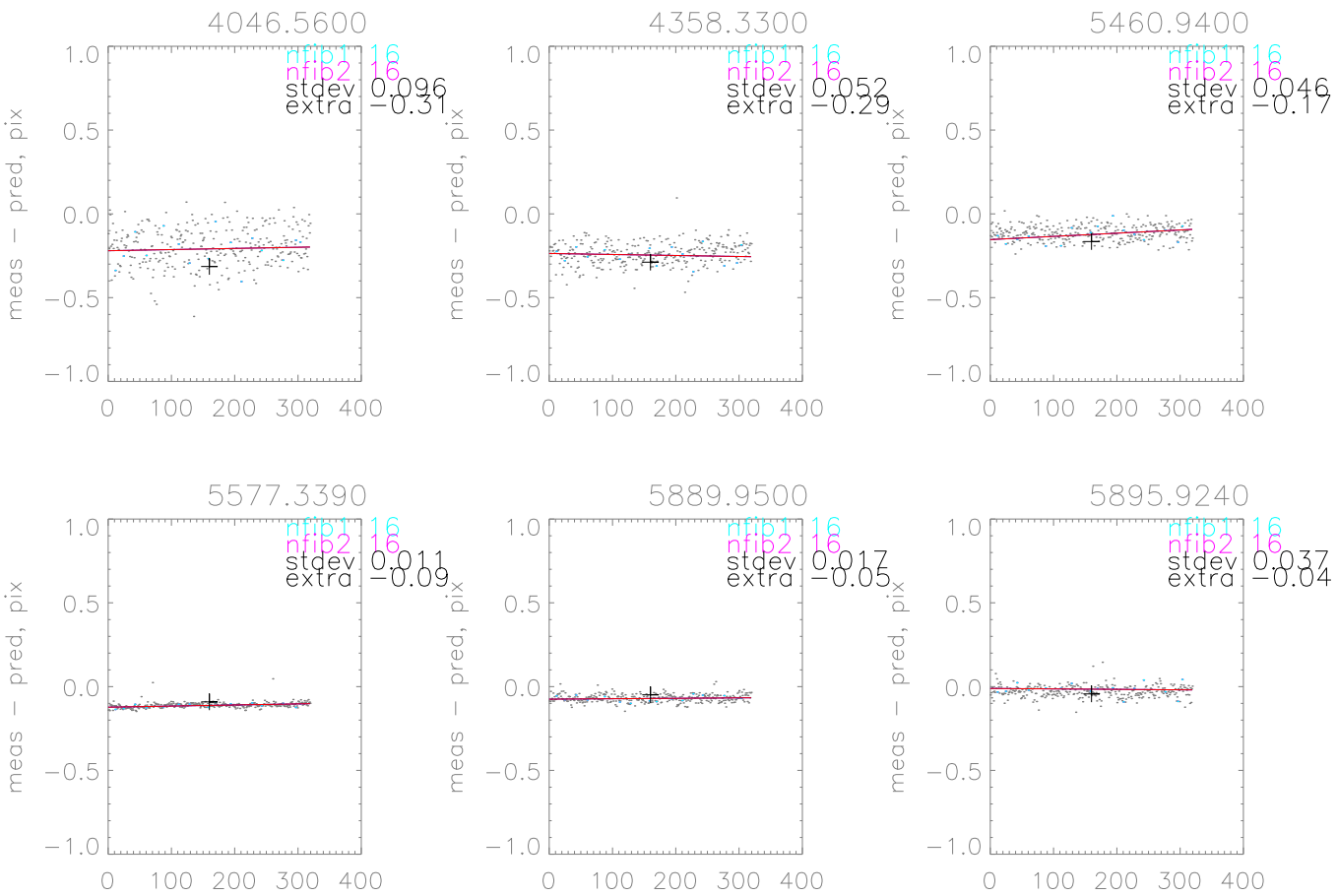

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

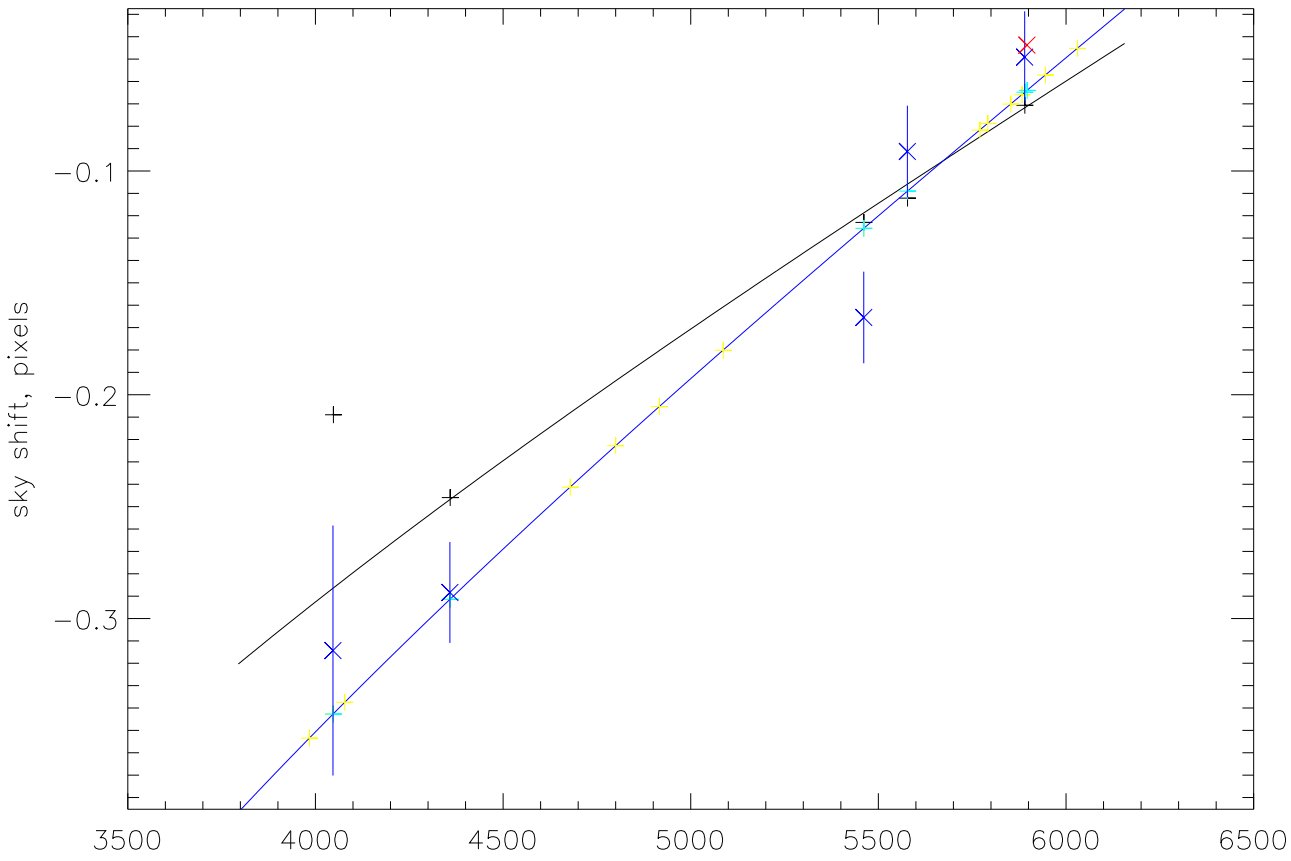

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

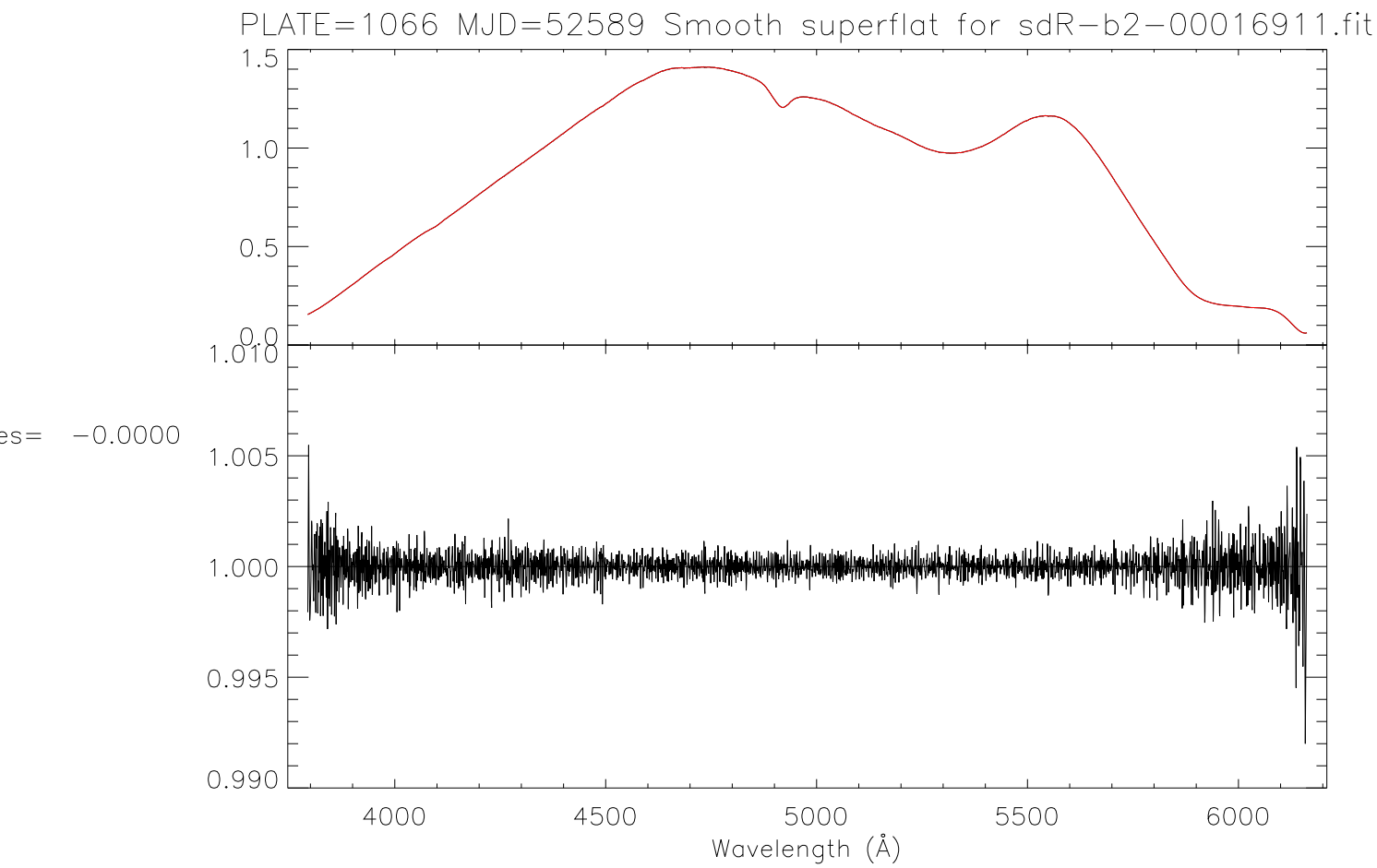

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

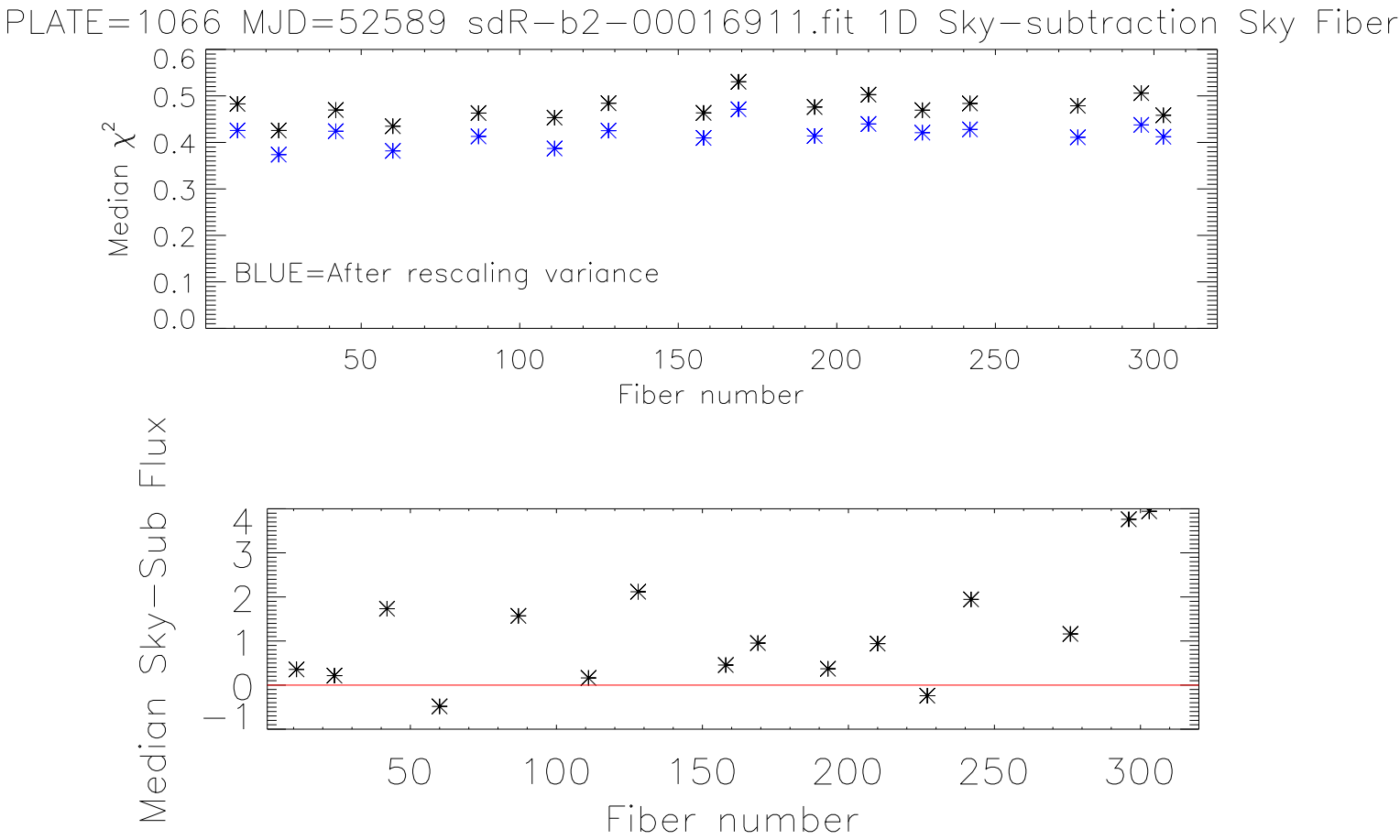

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

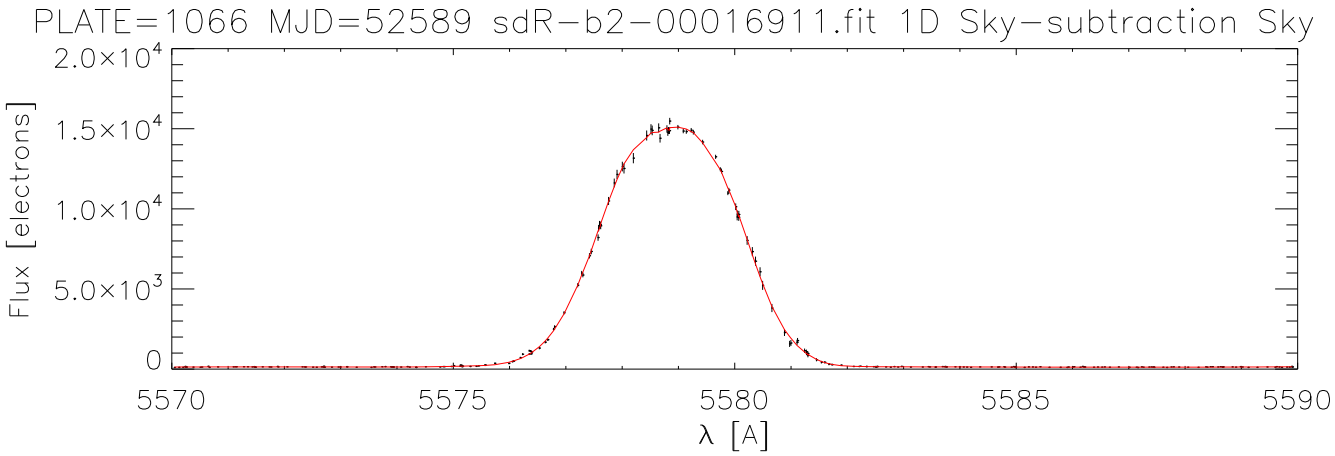

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

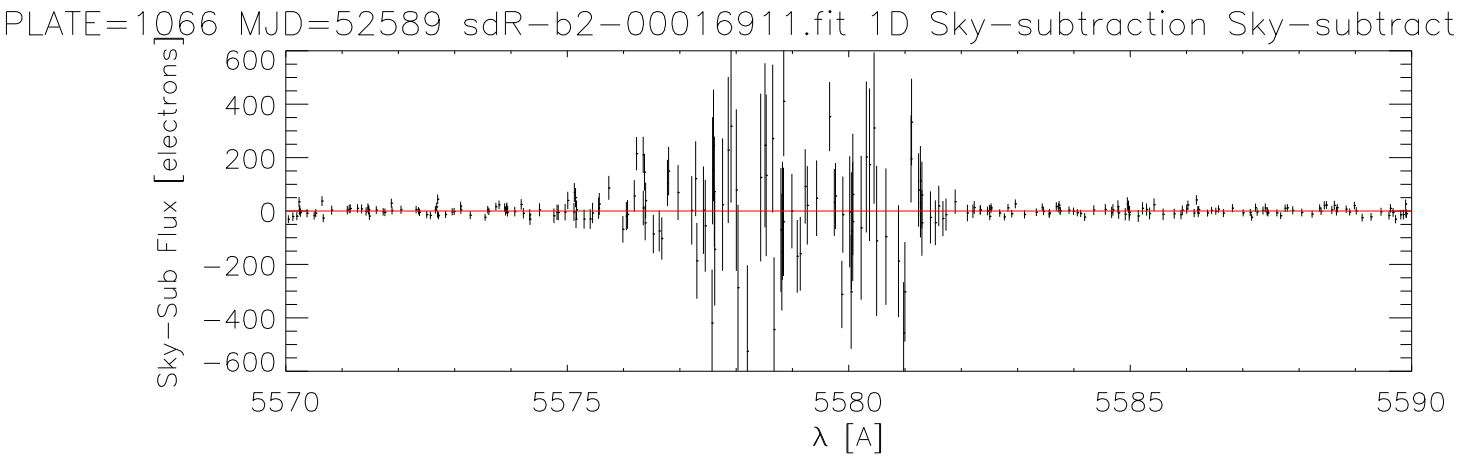

4046.5600
nfib1 16
nfib2 16
stdev 0.096
extra −0.31
4358.3300
nfib1 16
nfib2 16
stdev 0.052
extra −0.29
5460.9400
nfib1 16
nfib2 16
stdev 0.046
extra −0.17
5577.3390
nfib1 16
nfib2 16
stdev 0.011
extra −0.09
5889.9500
nfib1 16
nfib2 16
stdev 0.017
extra −0.05
5895.9240
nfib1 16
nfib2 16
stdev 0.037
extra −0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

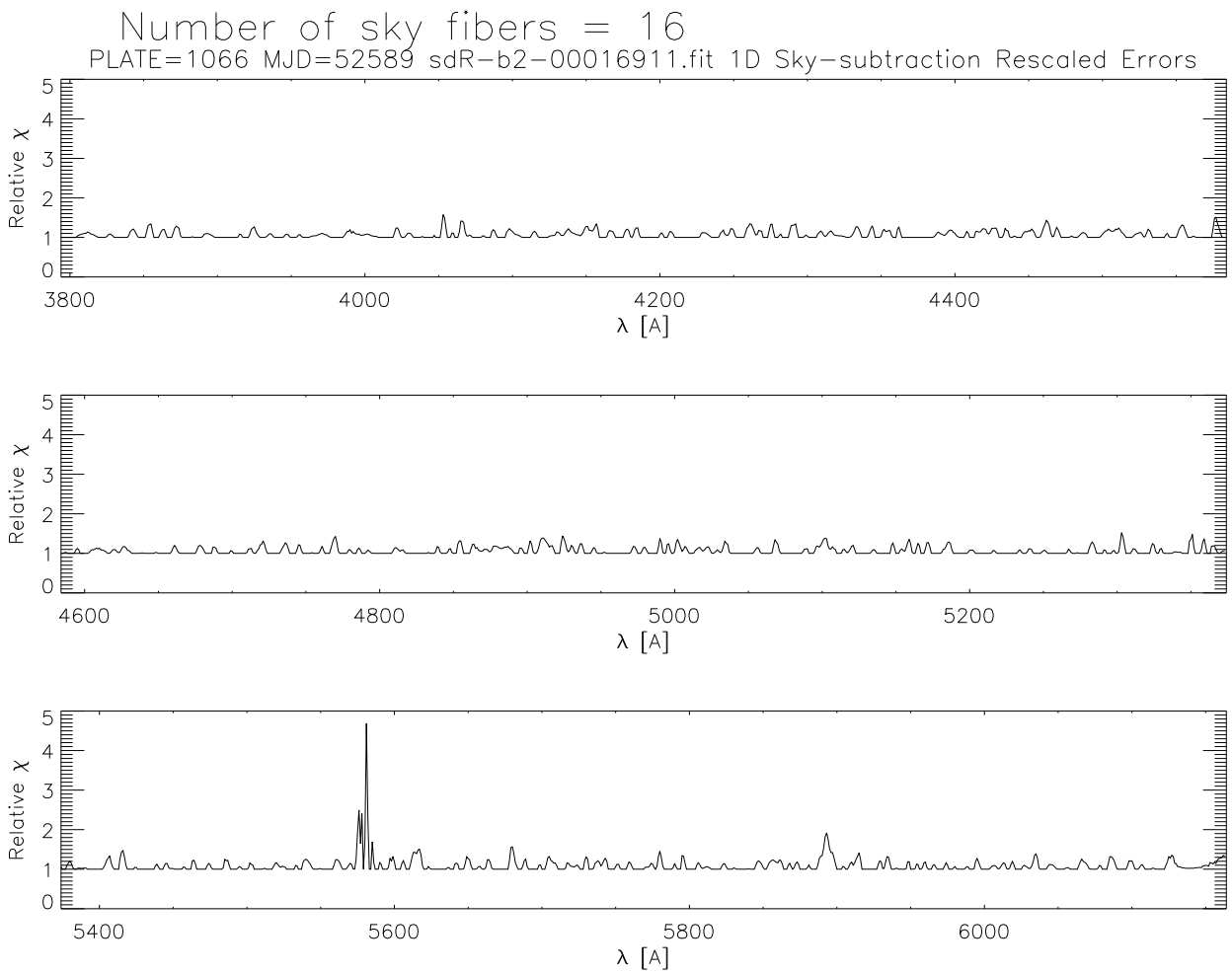

sky shift, pixels
−0.1
−0.2
−0.3
3500
4000
4500
5000
5500
6000
6500

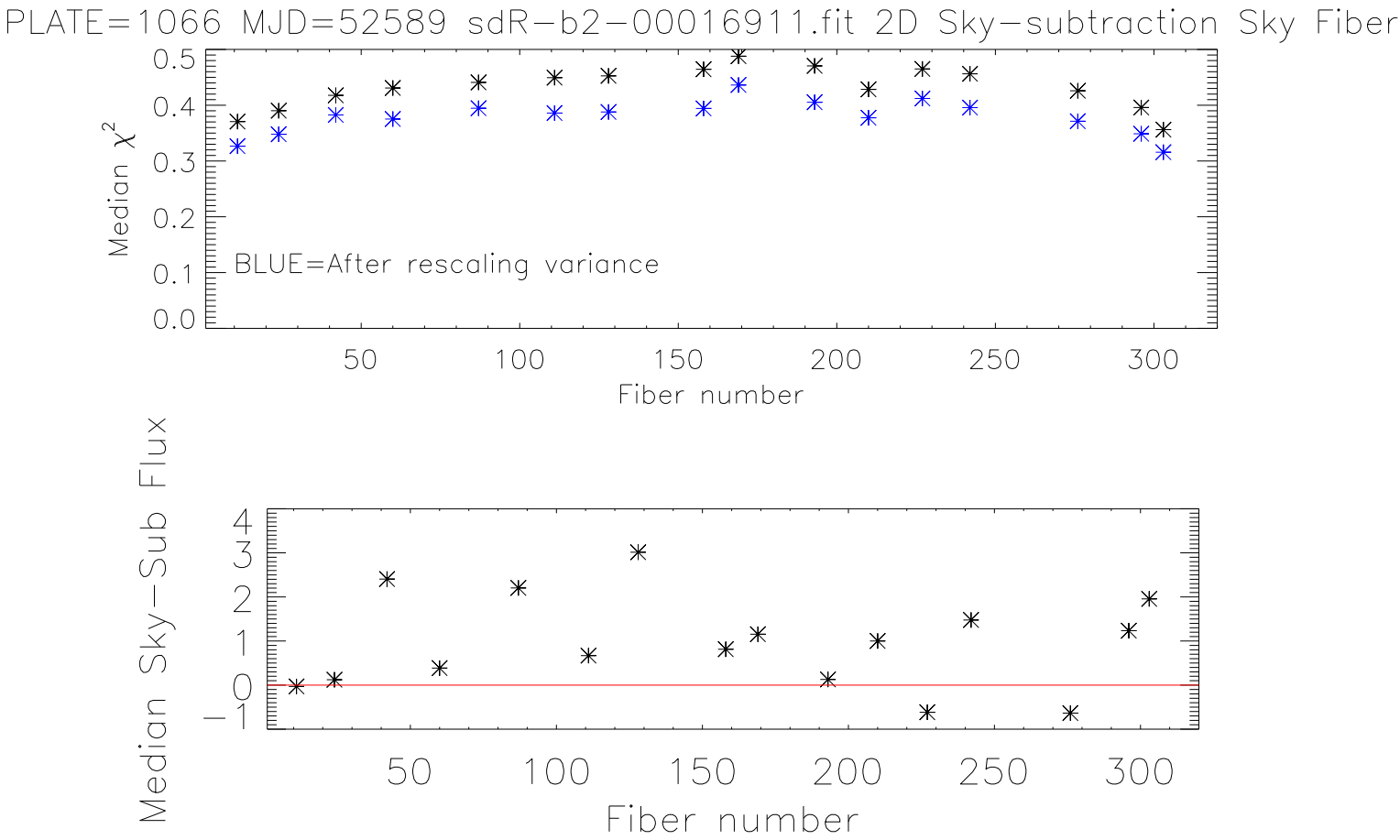

PLATE=1066 MJD=52589 Smooth superflat for sdR-b2-00016911.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

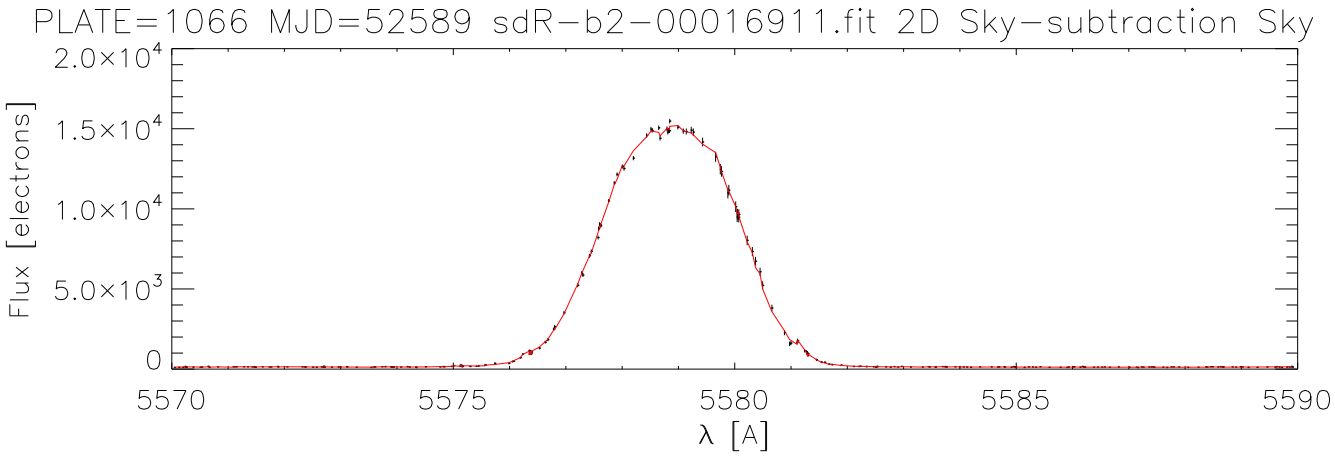

PLATE=1066 MJD=52589 sdR-b2-00016911.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

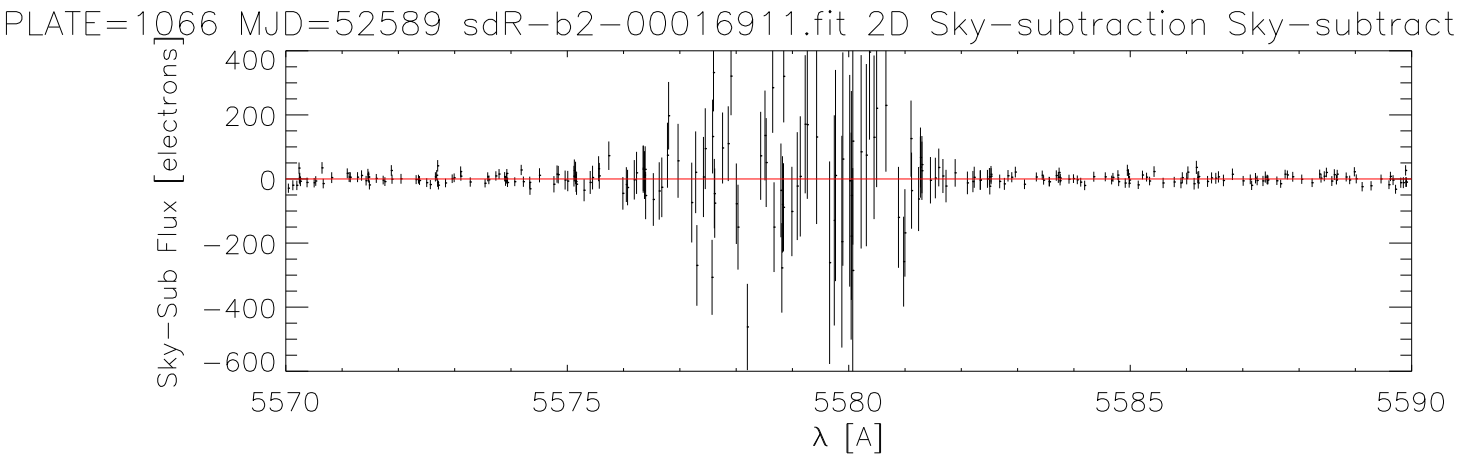

PLATE=1066 MJD=52589 sdR-b2-00016911.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

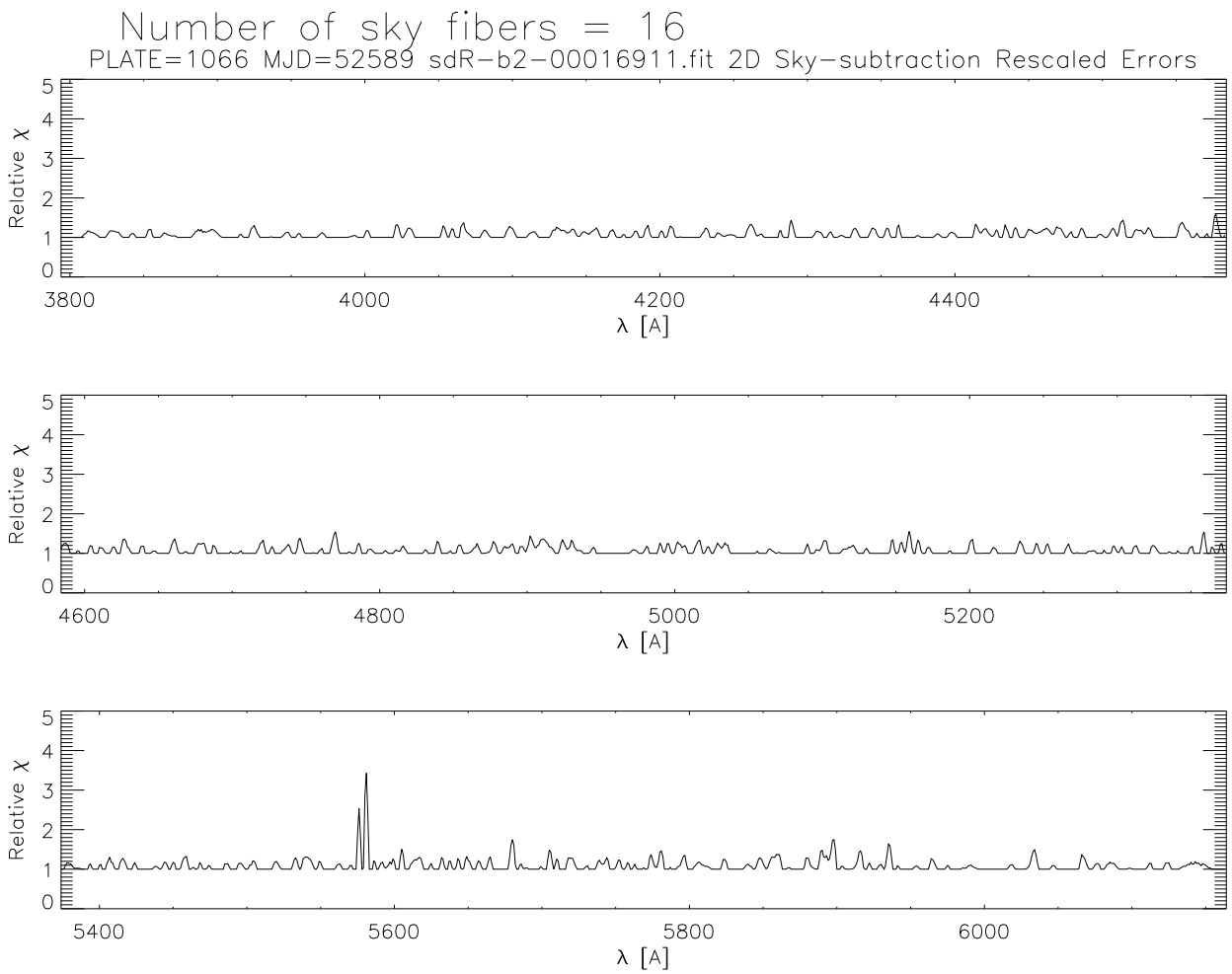

PLATE=1066 MJD=52589 sdR-b2-00016911.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
−600
5570
5575
5580
5585
5590
λ [A]

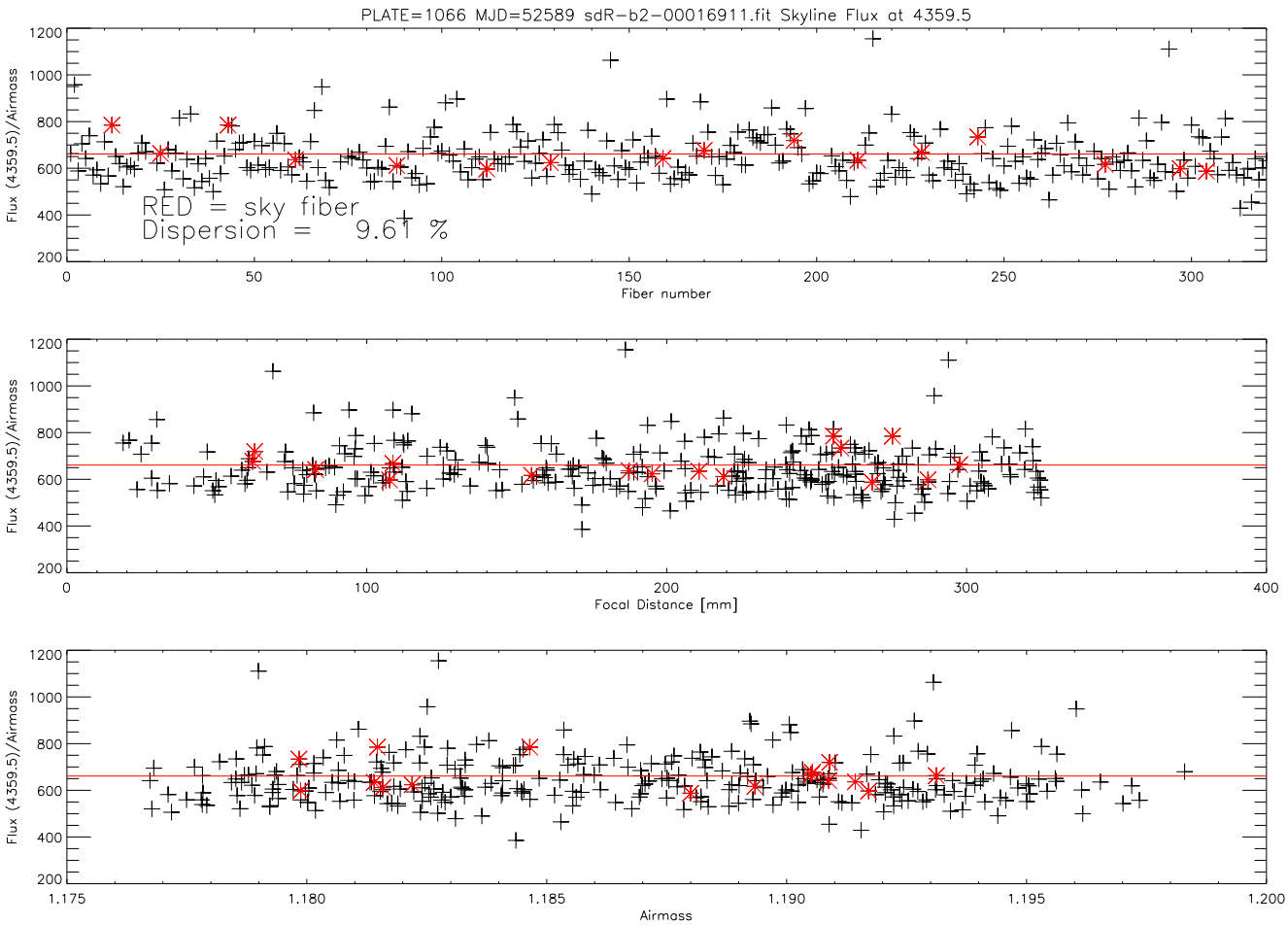

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b2-00016911.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

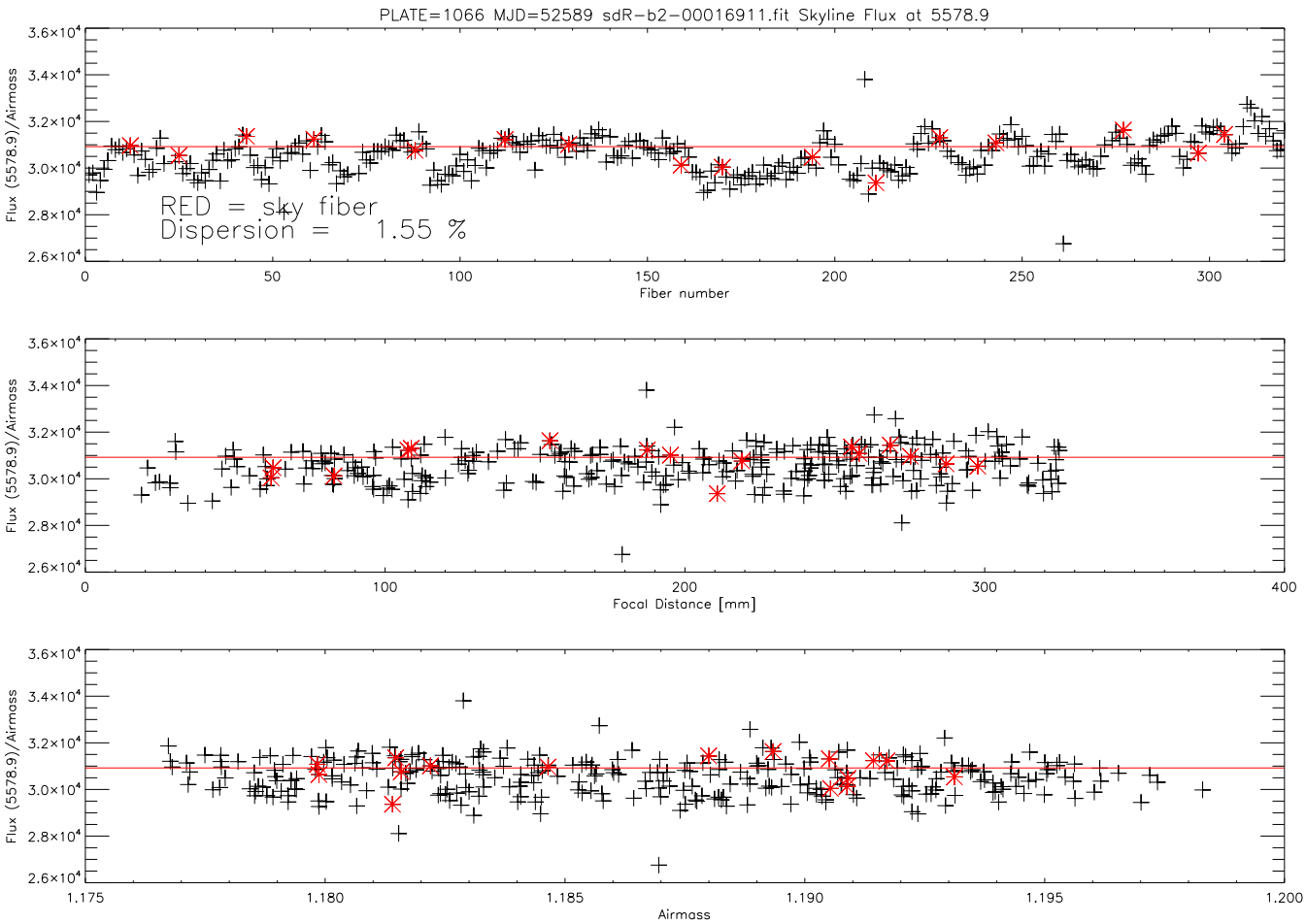

PLATE=1066 MJD=52589 sdR-b2-00016911.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

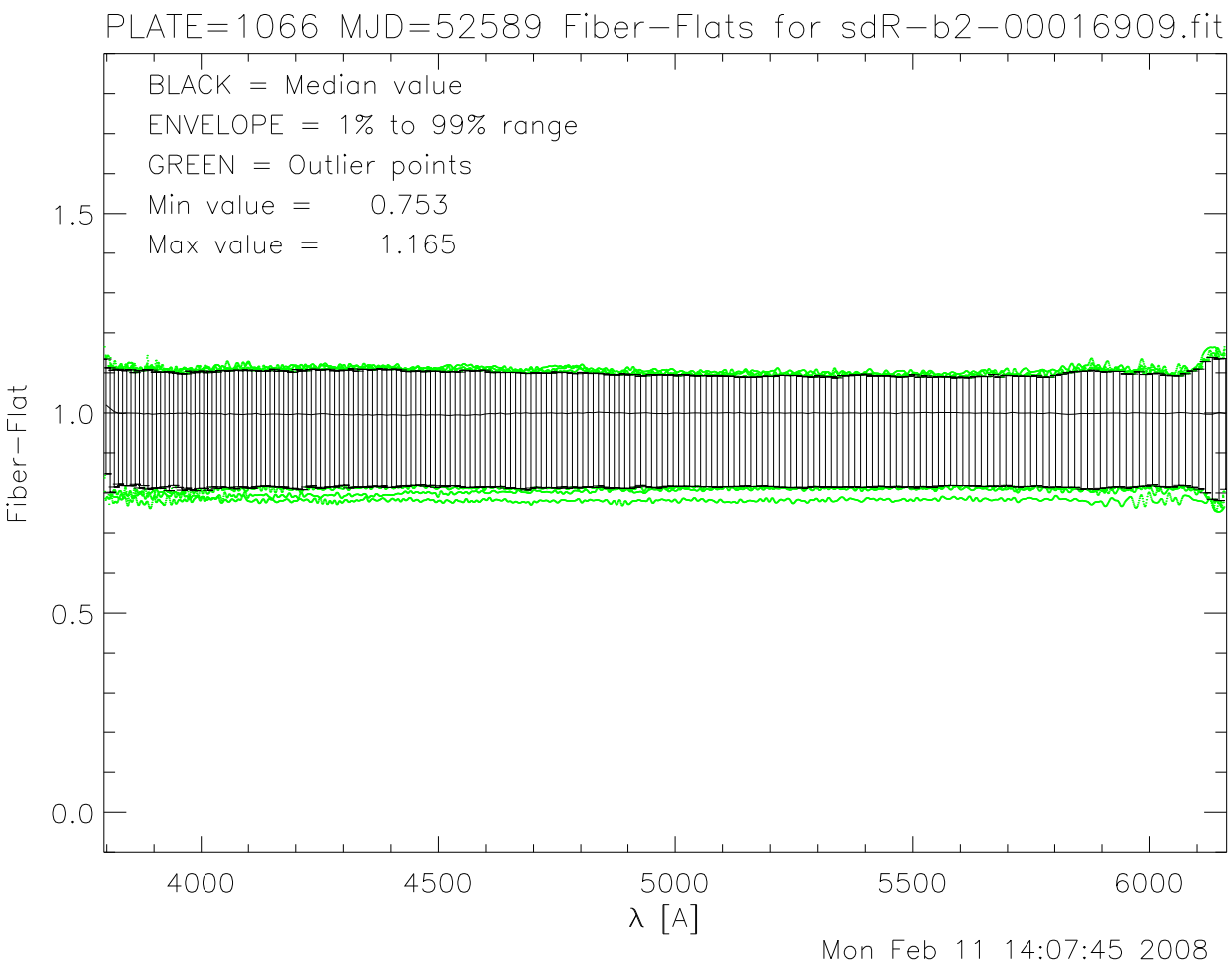

PLATE=1066 MJD=52589 sdR-b2-00016911.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

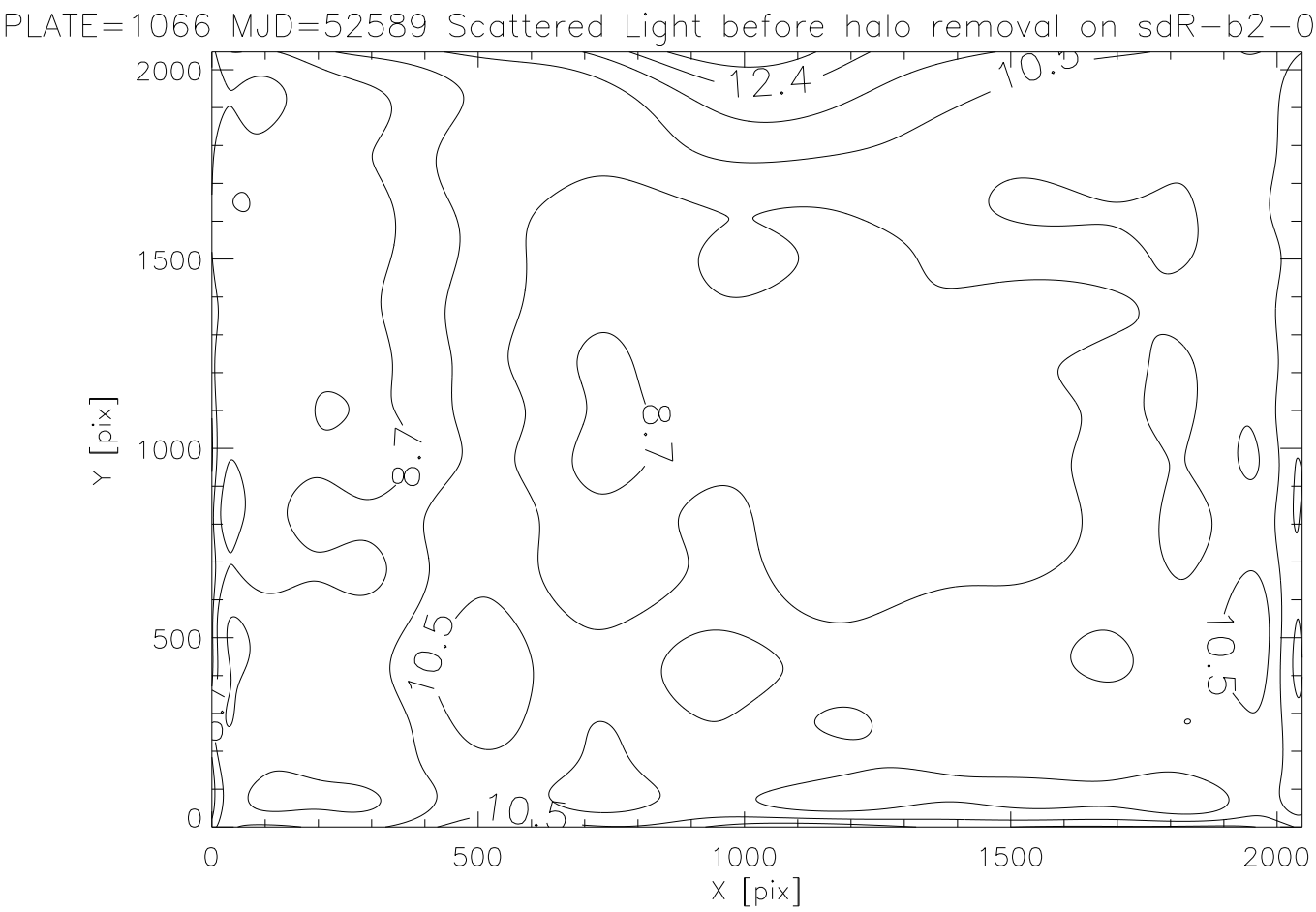

PLATE=1066 MJD=52589 sdR-b2-00016911.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
−600
5570
5575
5580
5585
5590
λ [A]

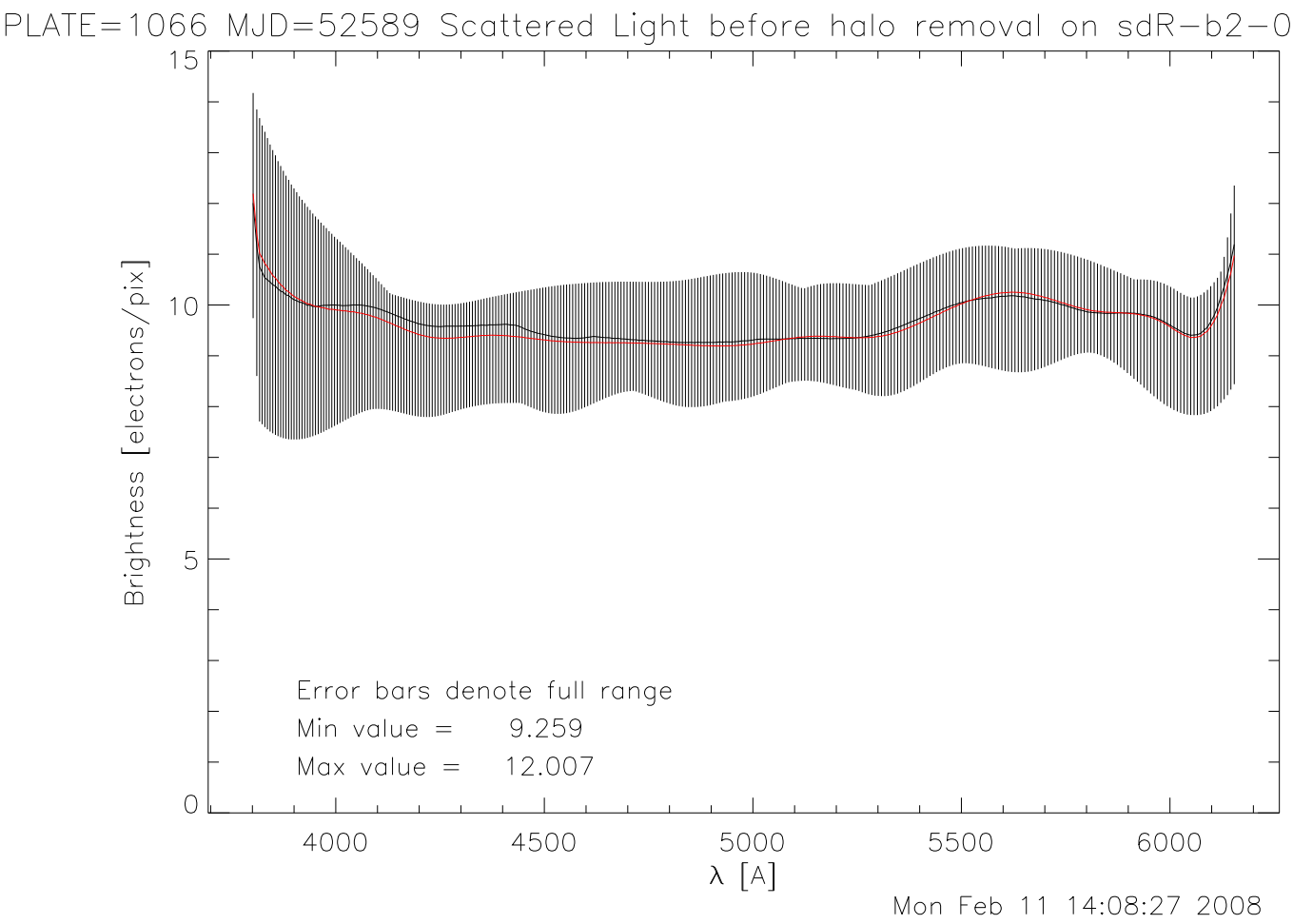

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b2-00016911.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

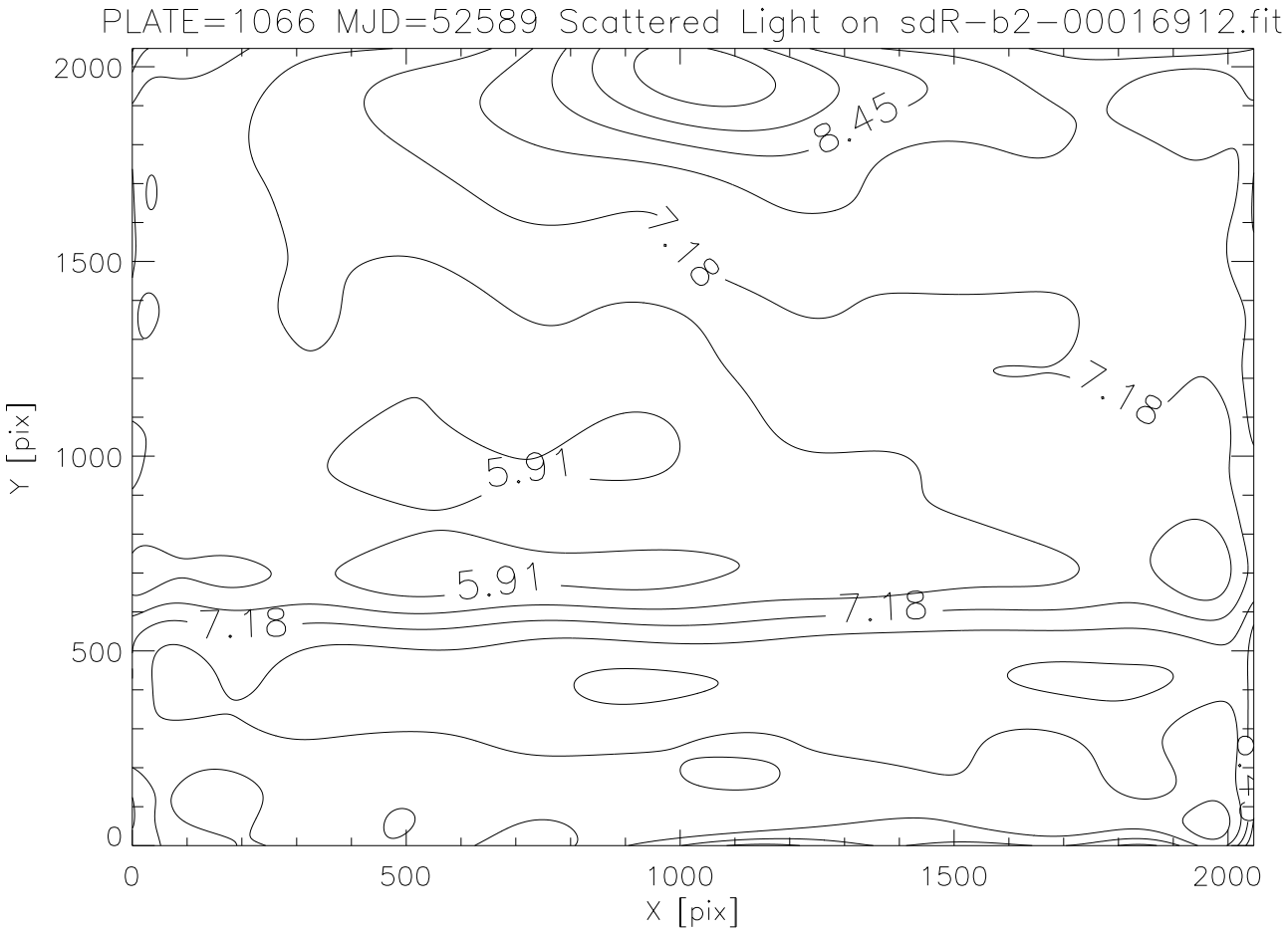

PLATE=1066 MJD=52589 sdR-b2-00016911.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 9.61 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

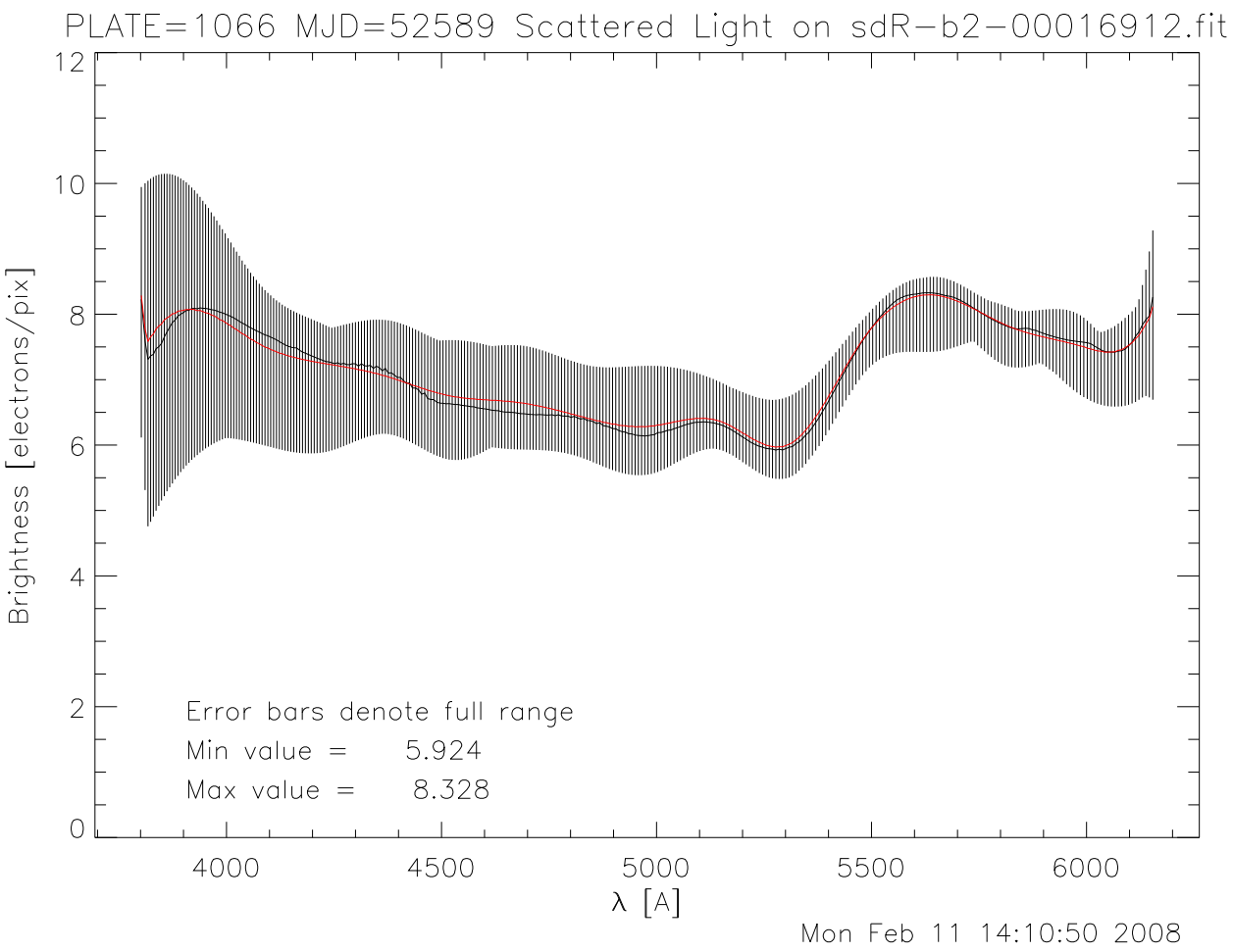

PLATE=1066 MJD=52589 sdR-b2-00016911.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.55 %
Fiber number
Focal Distance [mm]
Airmass

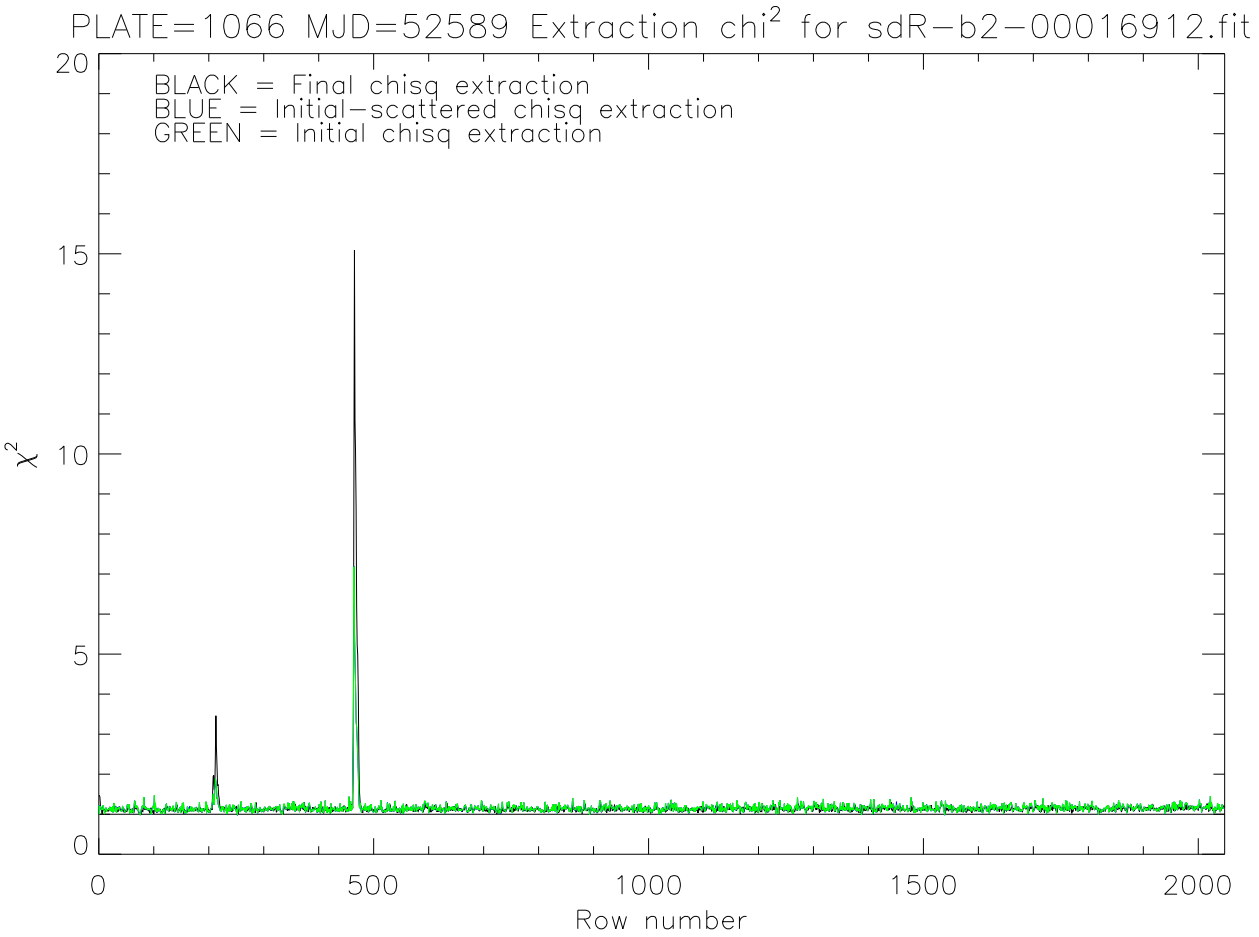

PLATE=1066 MJD=52589 Fiber-Flats for sdR-b2-00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.753
Max value = 1.165
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 14:07:45 2008

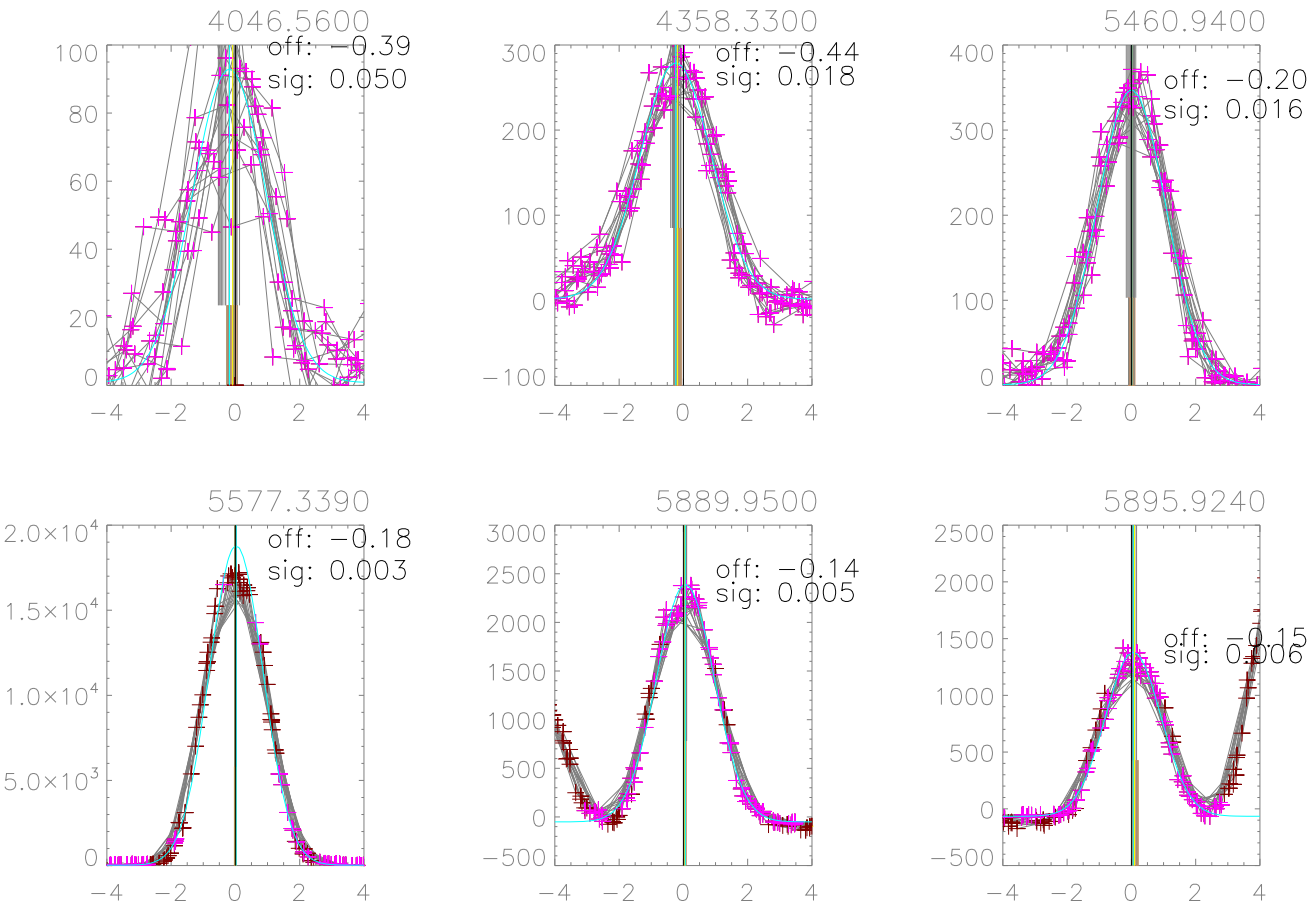

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-b2-00016912.f
12.4
10.5
8.7
8.7
10.5
10.5
10.5
Y [pix]
X [pix]
0
500
1000
1500
2000

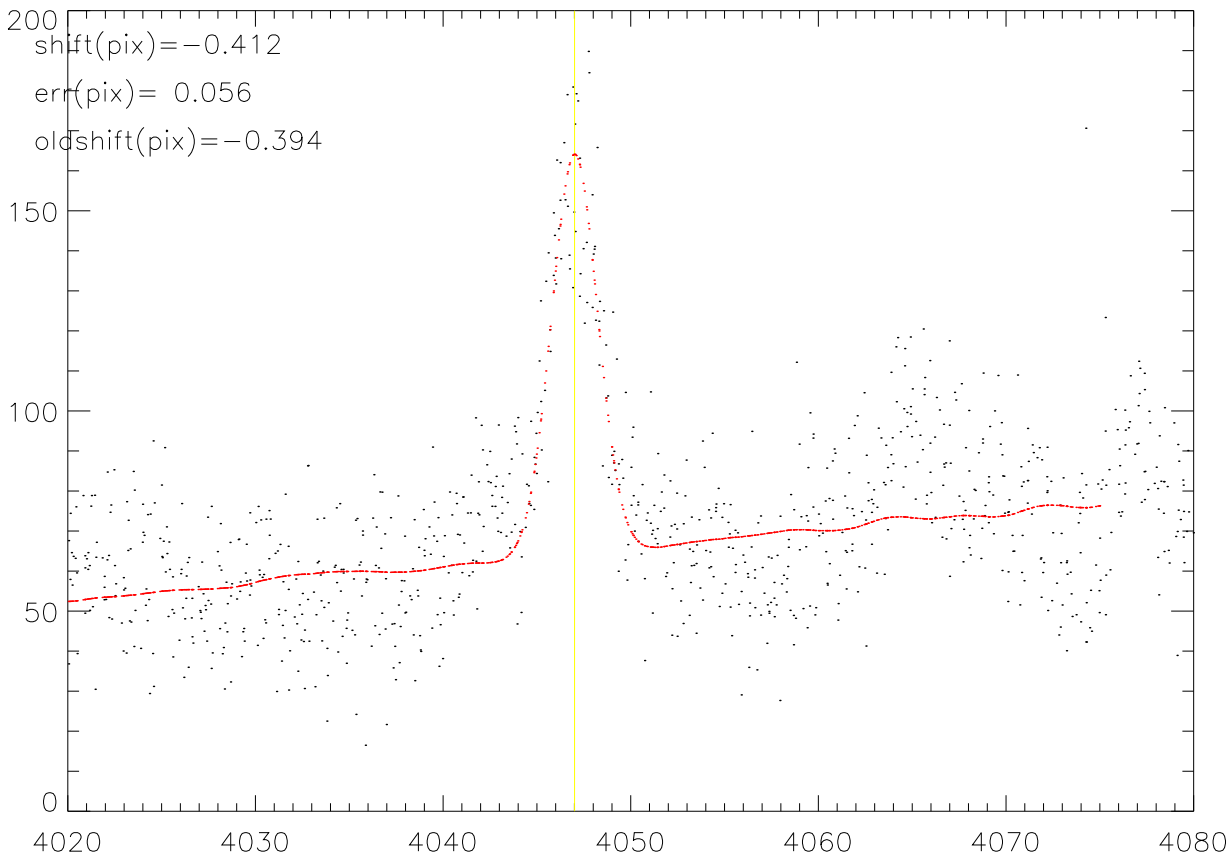

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-b2-00016912.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 9.259
Max value = 12.007
Mon Feb 11 14:08:27 2008

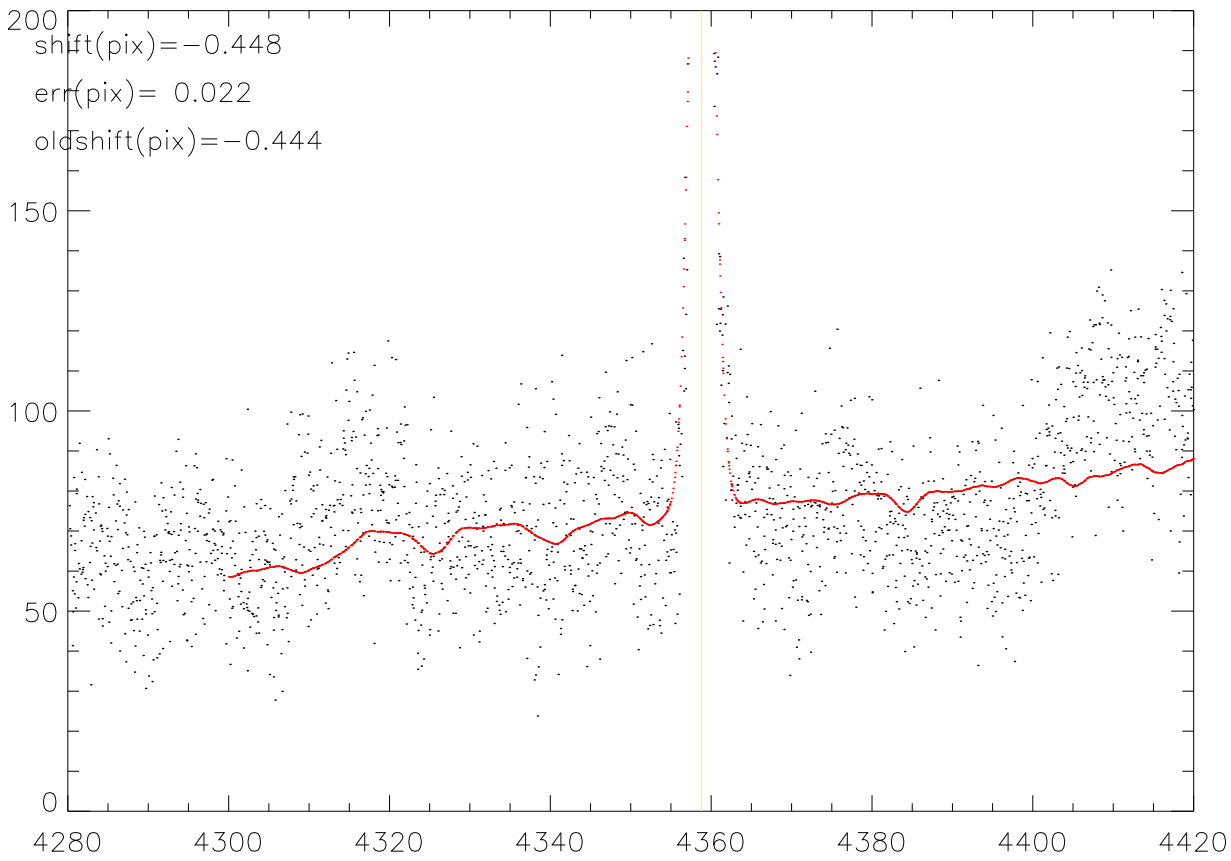

PLATE=1066 MJD=52589 Scattered Light on sdR-b2-00016912.fit
8.45
7.18
7.18
5.91
5.91
7.18
7.18
0
0
0
Y [pix]
X [pix]
0
500
1000
1500
2000

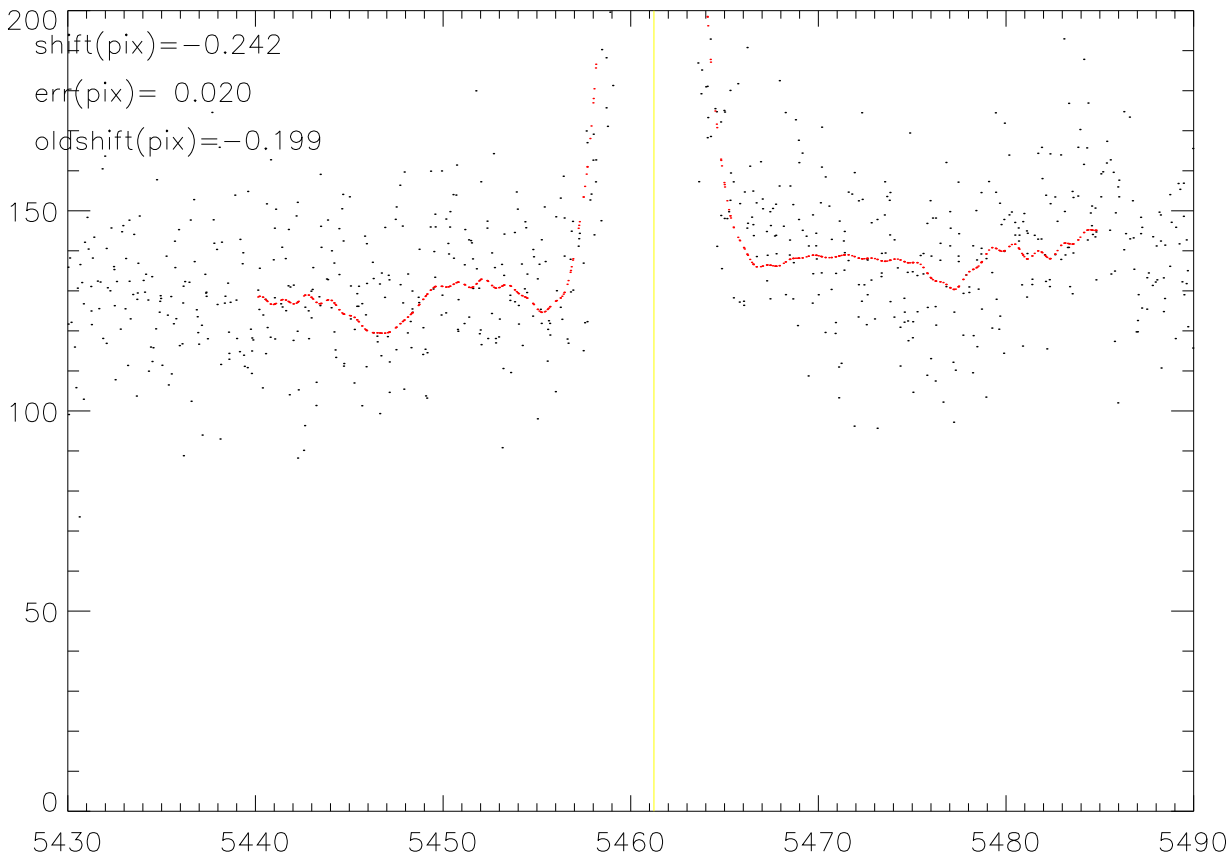

PLATE=1066 MJD=52589 Scattered Light on sdR-b2-00016912.fit
Brightness [electrons/pix]
12
10
8
6
4
2
0
Error bars denote full range
Min value = 5.924
Max value = 8.328
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 14:10:50 2008

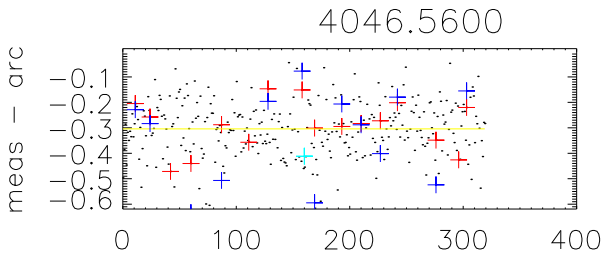

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-b2-00016912.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

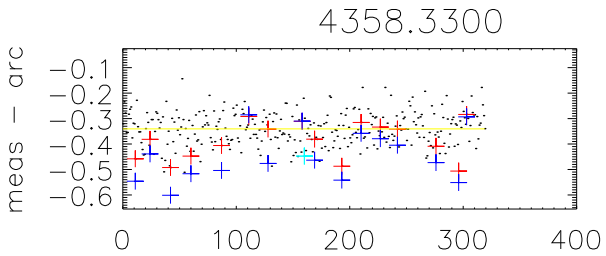

4046.5600
off: −0.39
sig: 0.050
4358.3300
off: −0.44
sig: 0.018
5460.9400
off: −0.20
sig: 0.016
5577.3390
off: −0.18
sig: 0.003
5889.9500
off: −0.14
sig: 0.005
5895.9240
off: −0.15
sig: 0.006

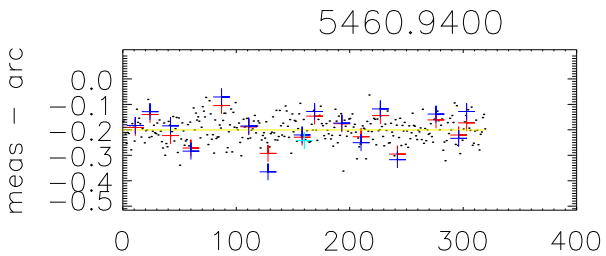

shift(pix)=−0.412
err(pix)= 0.056
oldshift(pix)=−0.394
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

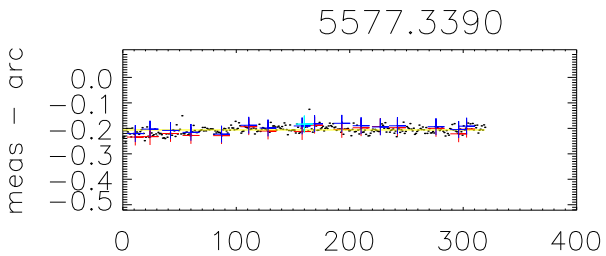

shift(pix)=−0.448
err(pix)= 0.022
oldshift(pix)=−0.444
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

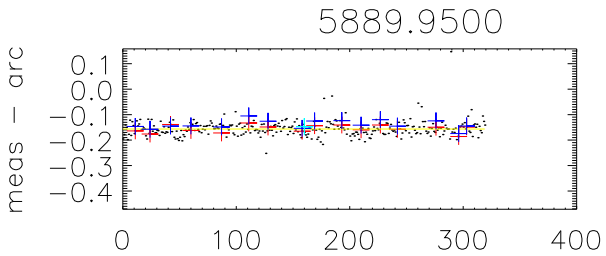

shift(pix)=−0.242
err(pix)= 0.020
oldshift(pix)=.−0.199
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

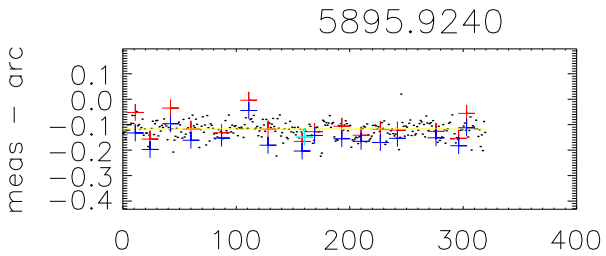

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

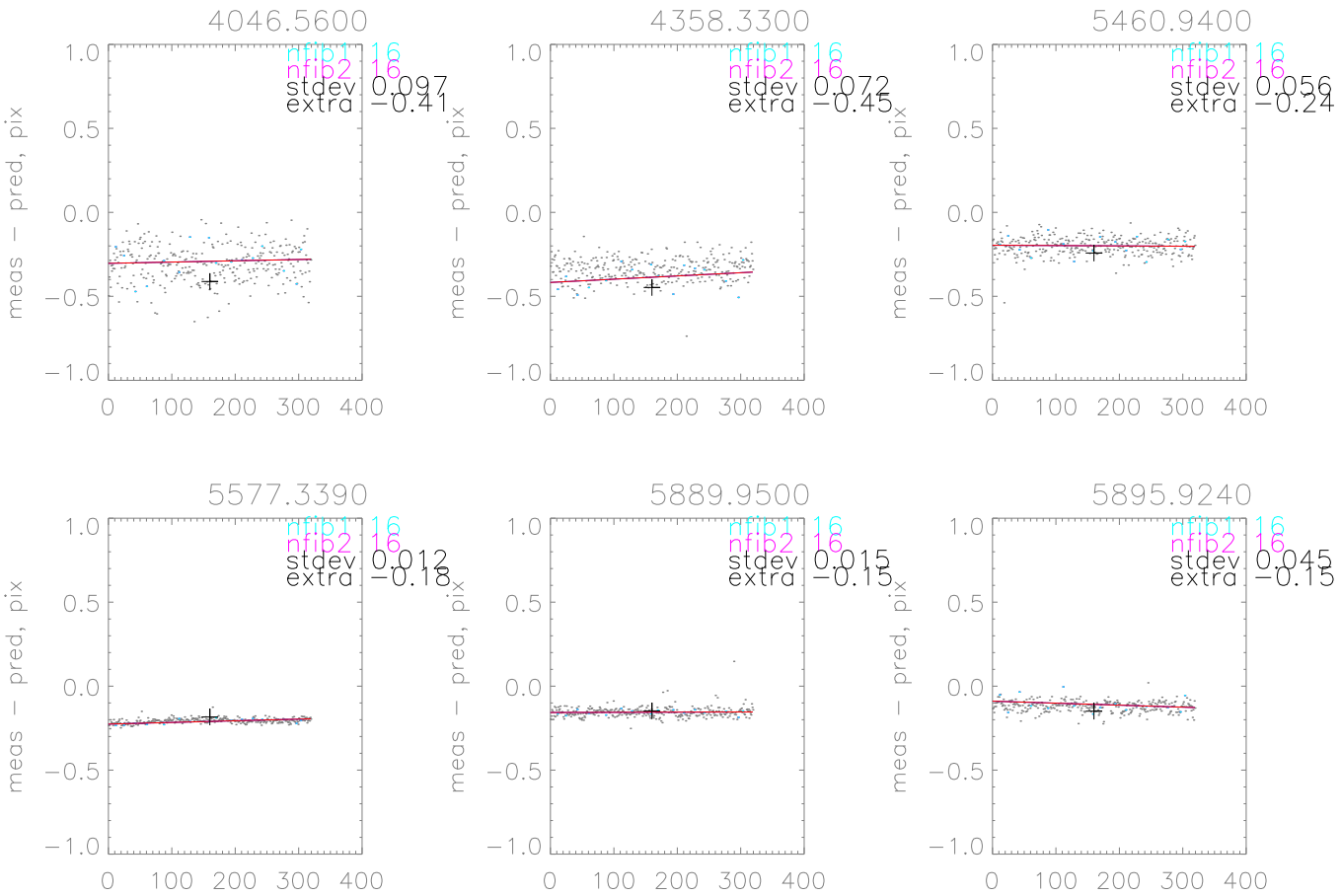

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

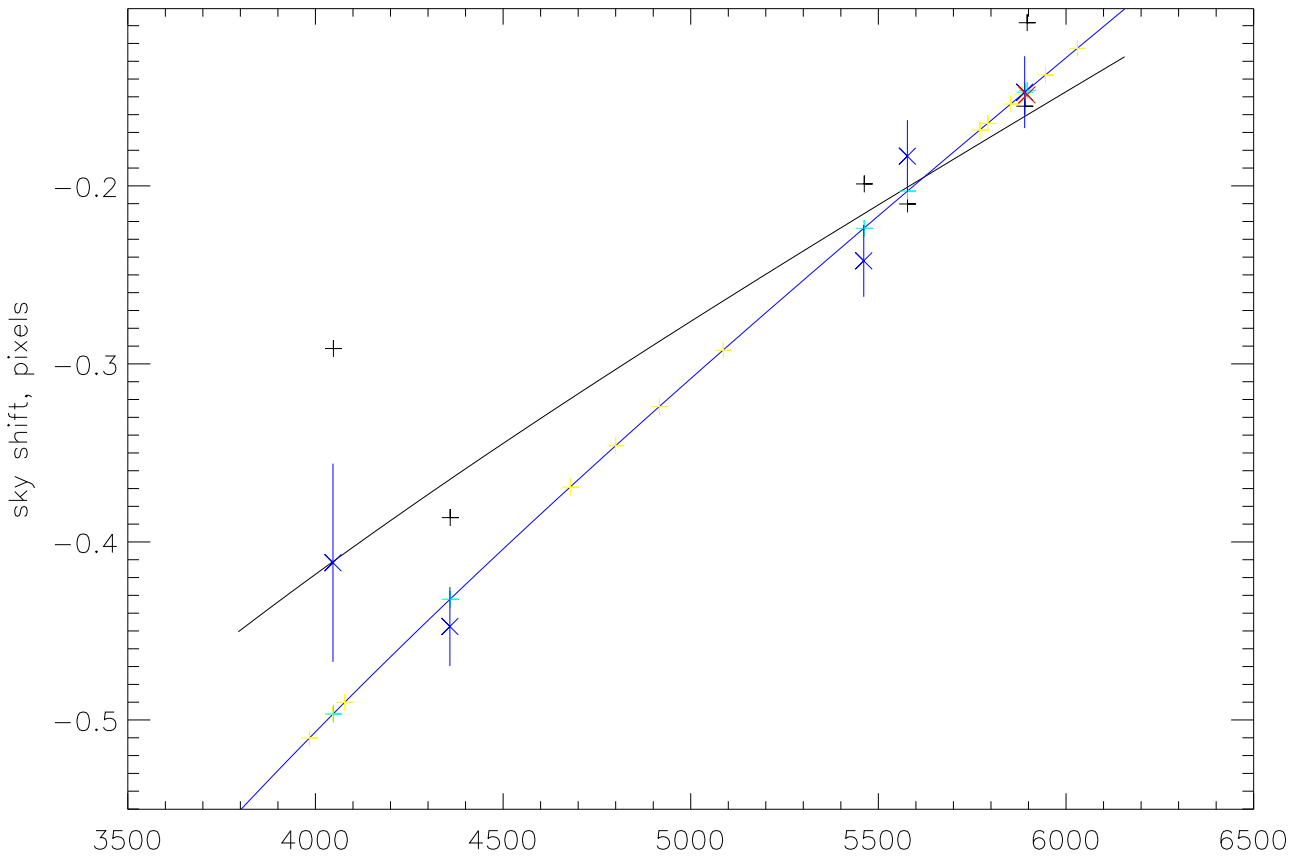

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

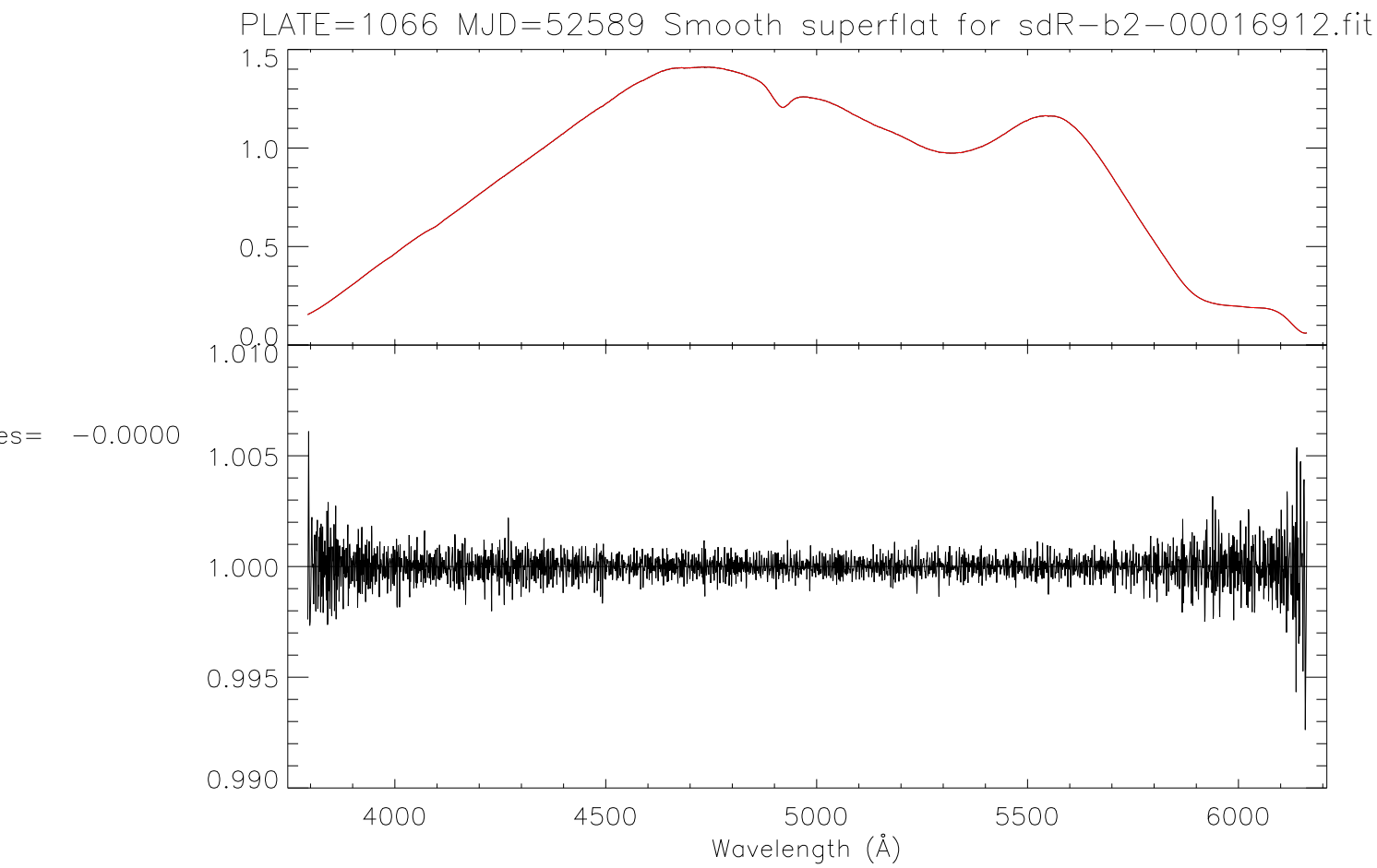

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

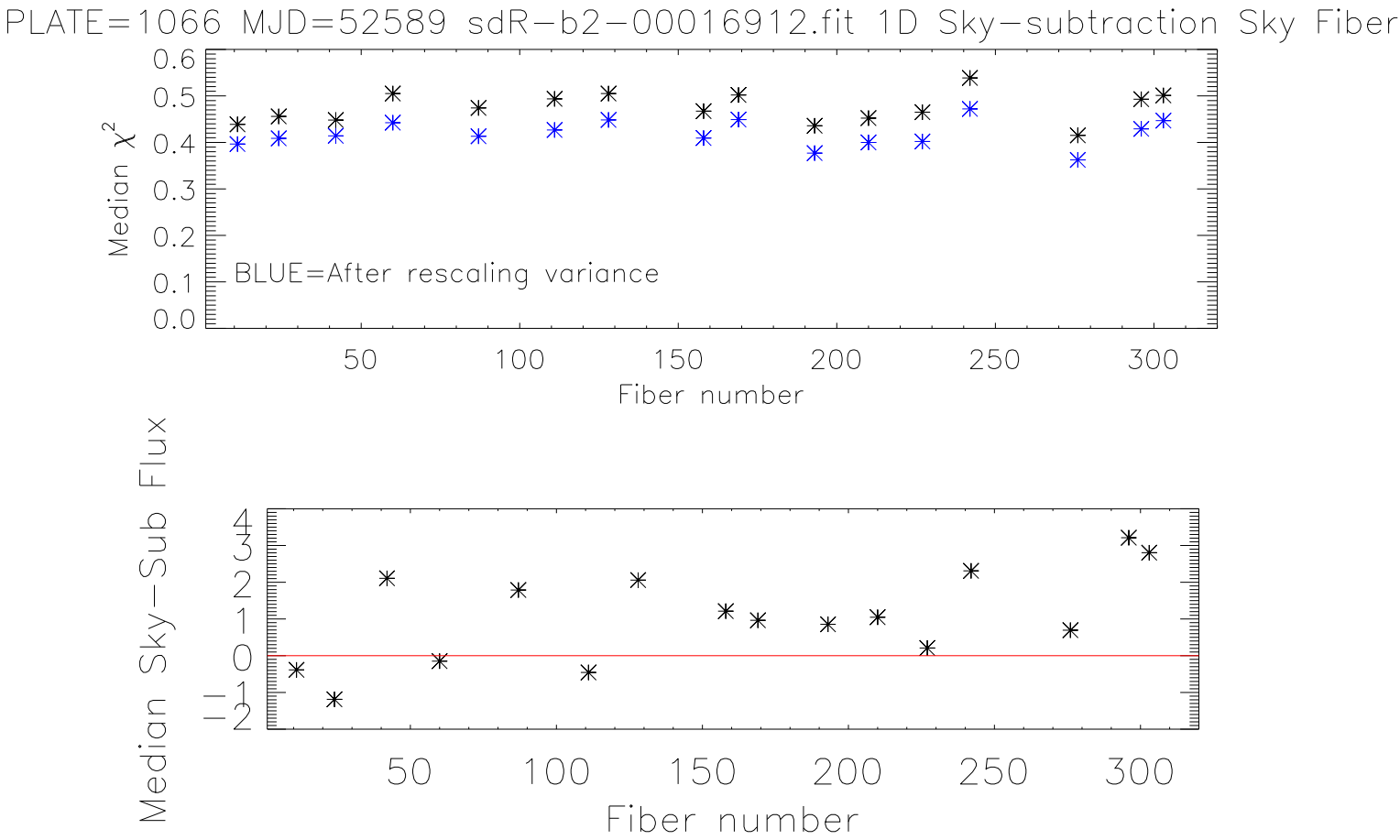

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

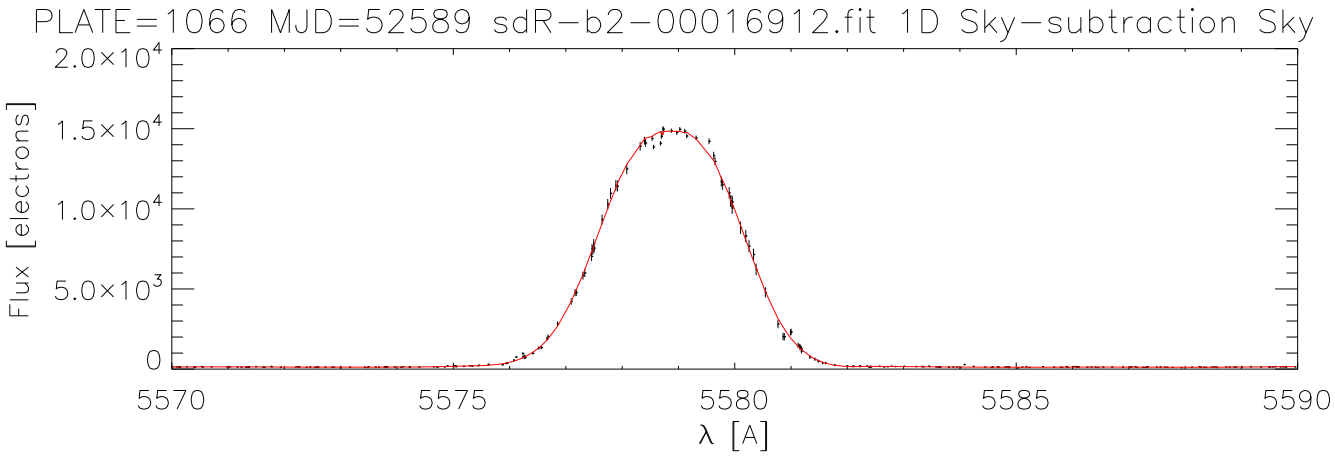

4046.5600
nfib1 16
nfib2 16
stdev 0.097
extra −0.41
4358.3300
nfib1 16
nfib2 16
stdev 0.072
extra −0.45
5460.9400
nfib1 16
nfib2 16
stdev 0.056
extra −0.24
5577.3390
nfib1 16
nfib2 16
stdev 0.012
extra −0.18
5889.9500
nfib1 16
nfib2 16
stdev 0.015
extra −0.15
5895.9240
nfib1 16
nfib2 16
stdev 0.045
extra −0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

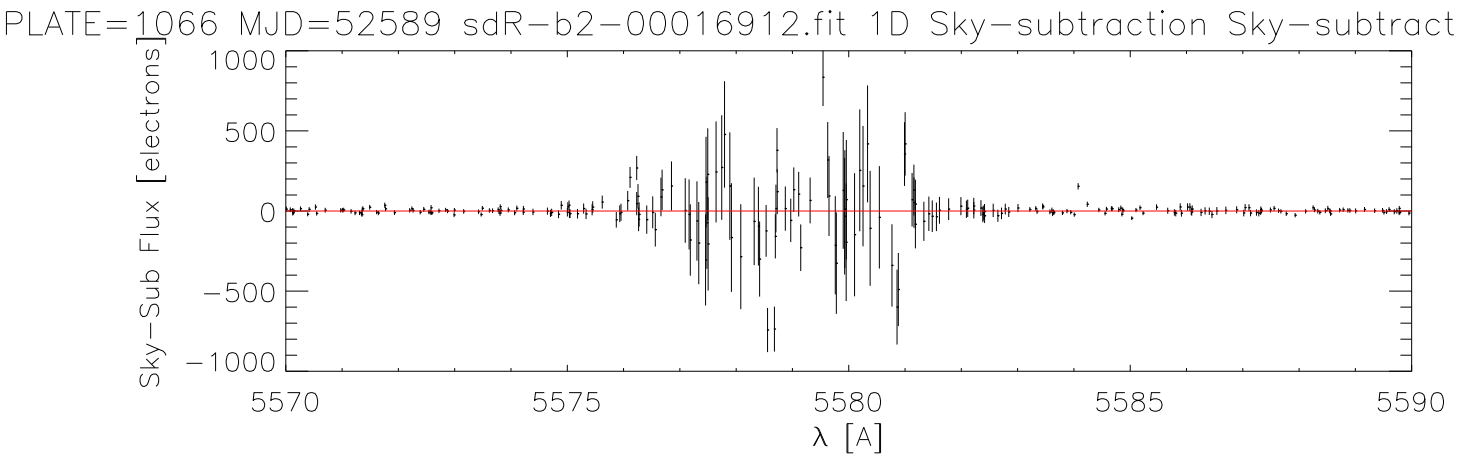

sky shift, pixels
−0.2
−0.3
−0.4
−0.5
3500
4000
4500
5000
5500
6000
6500

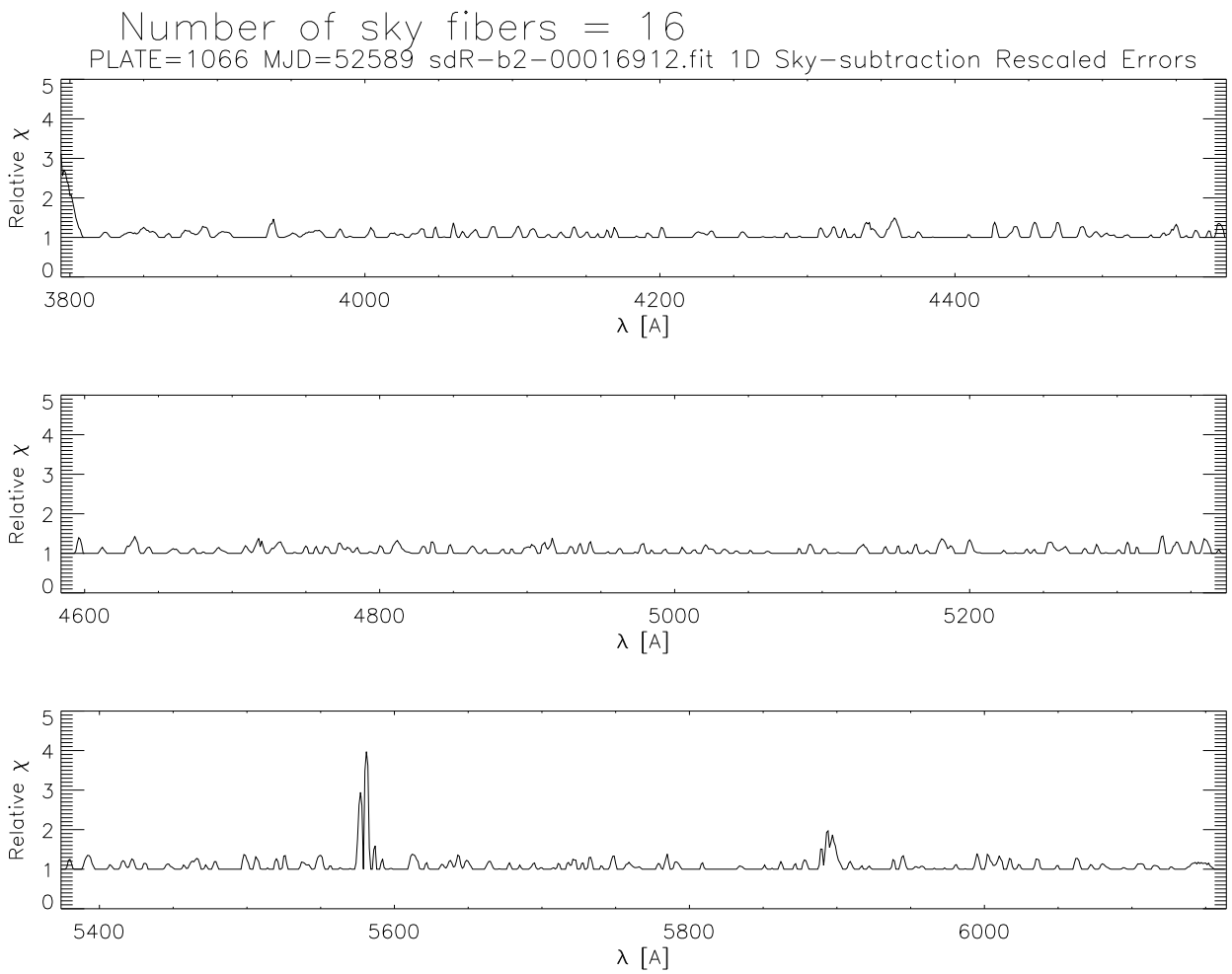

PLATE=1066 MJD=52589 Smooth superflat for sdR-b2-00016912.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

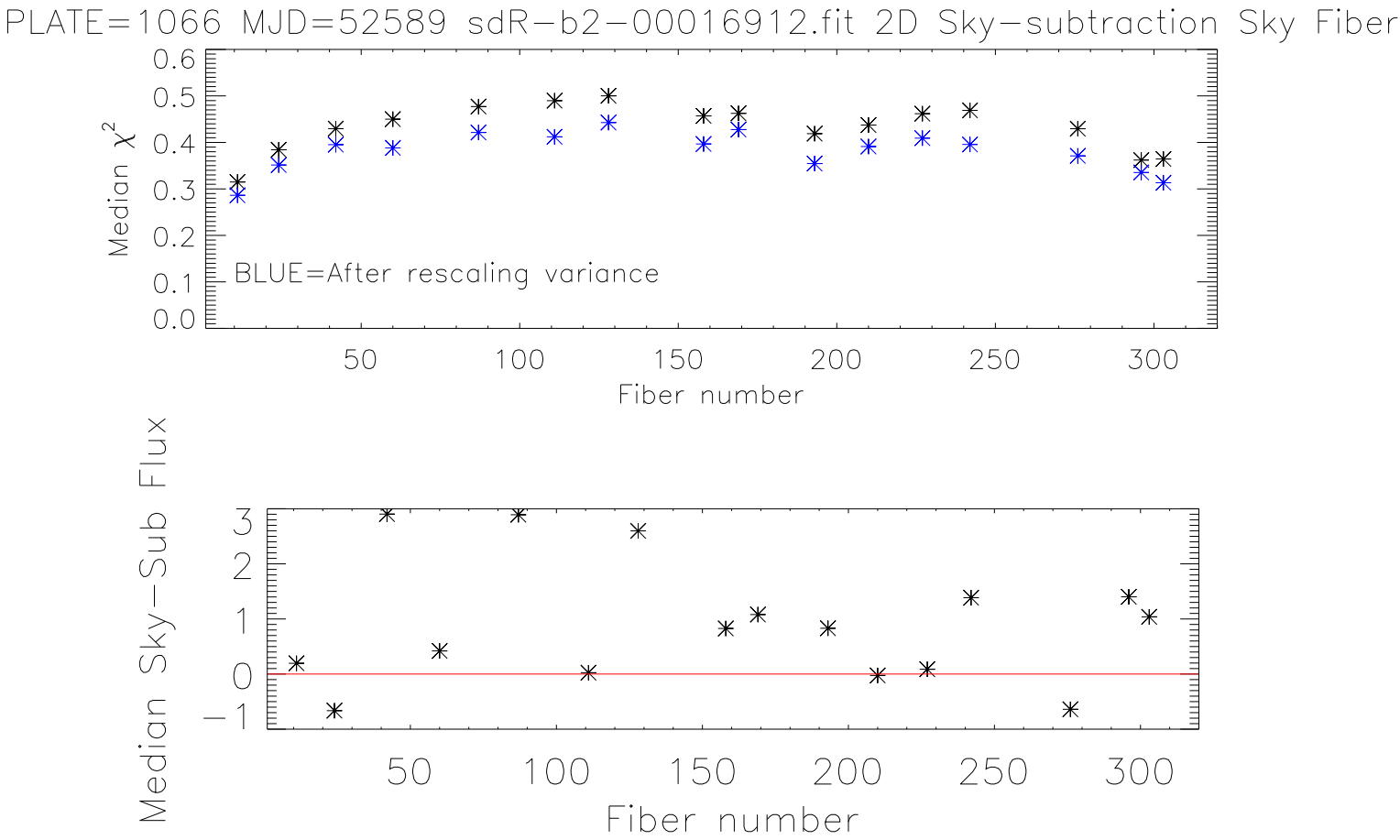
es= −0.0000

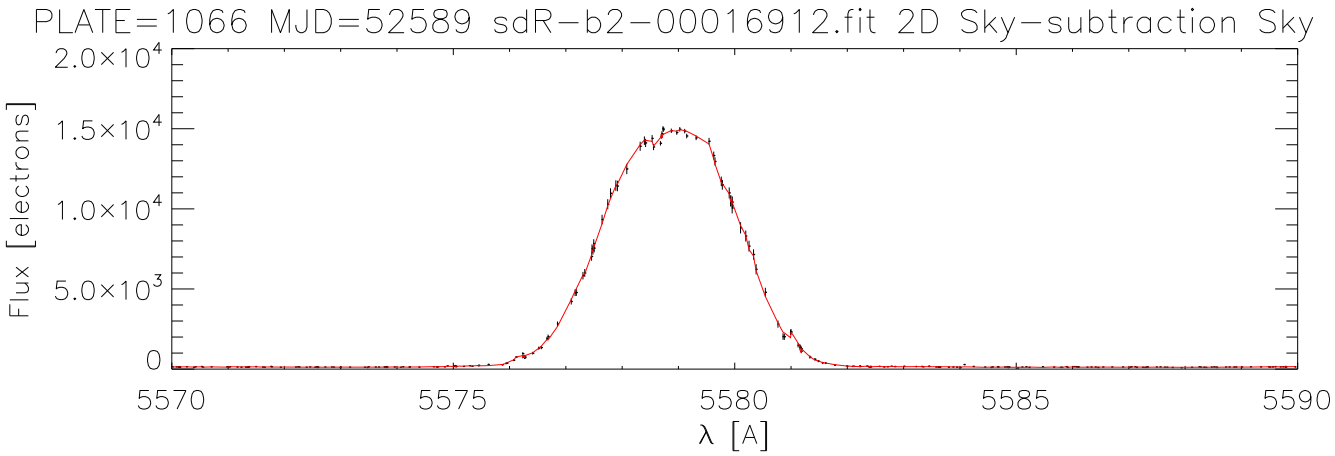

PLATE=1066 MJD=52589 sdR-b2-00016912.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

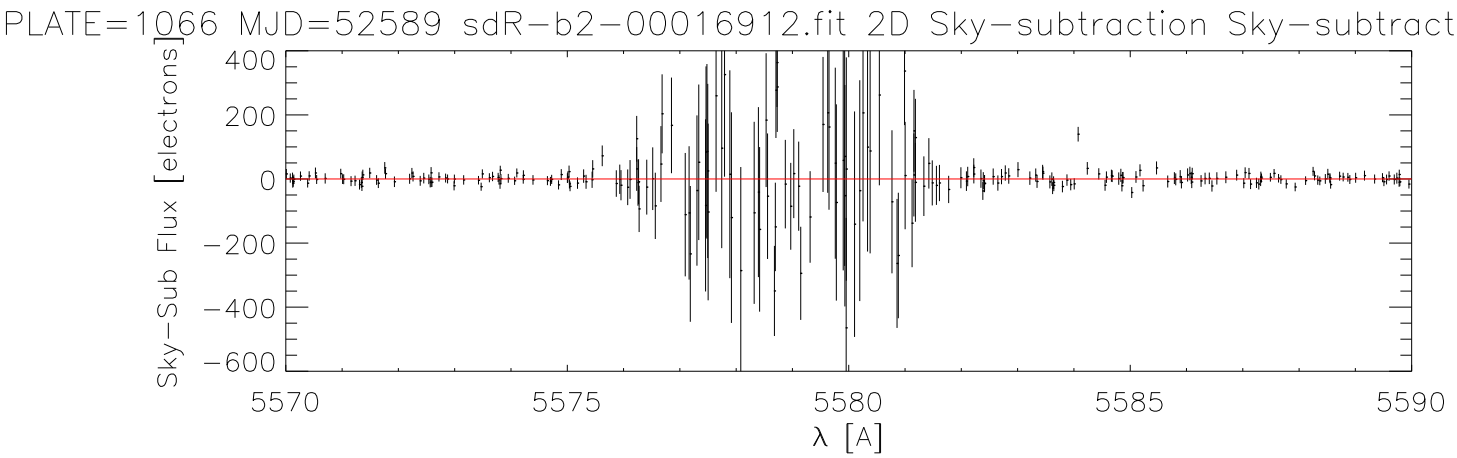

PLATE=1066 MJD=52589 sdR-b2-00016912.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

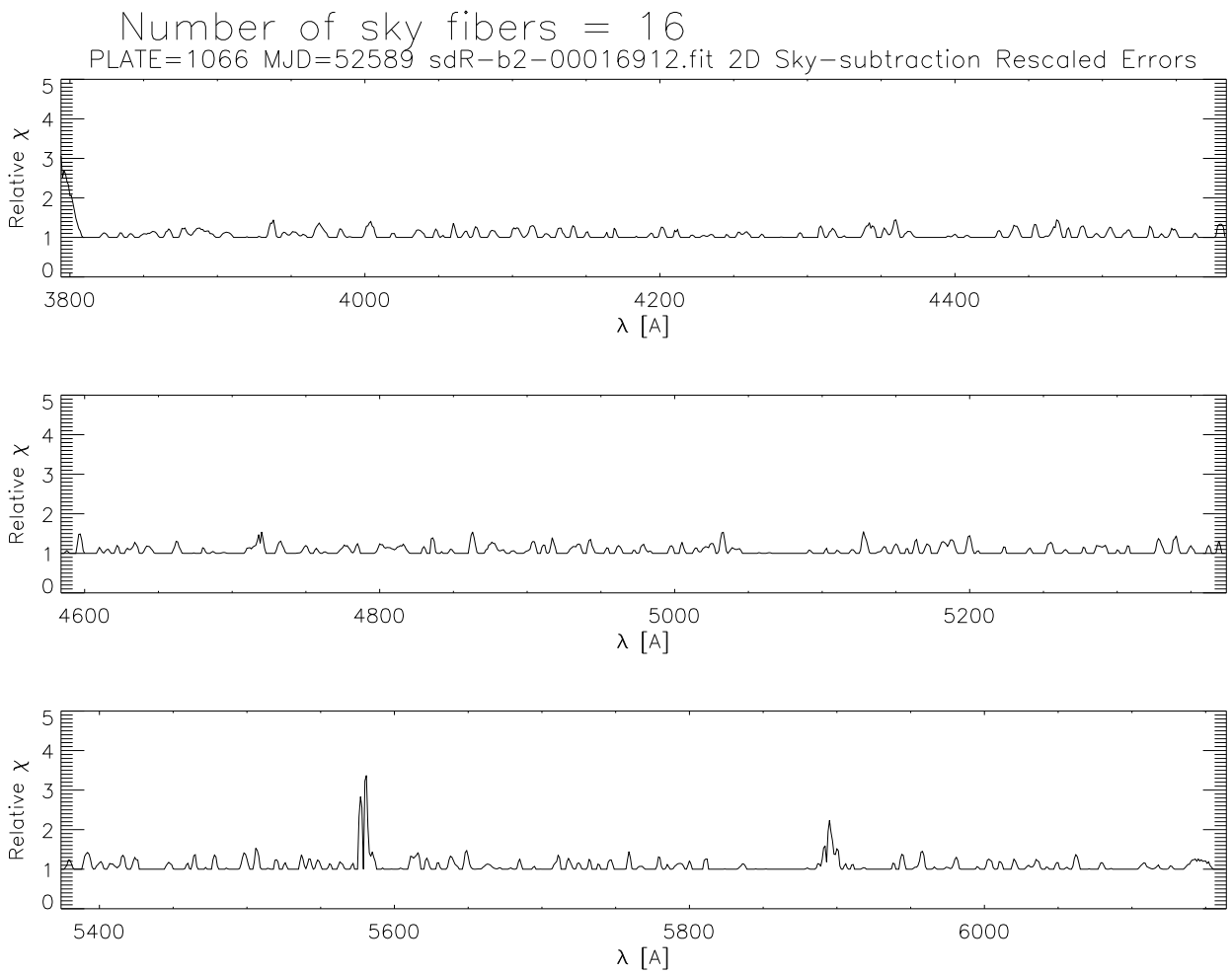

PLATE=1066 MJD=52589 sdR-b2-00016912.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

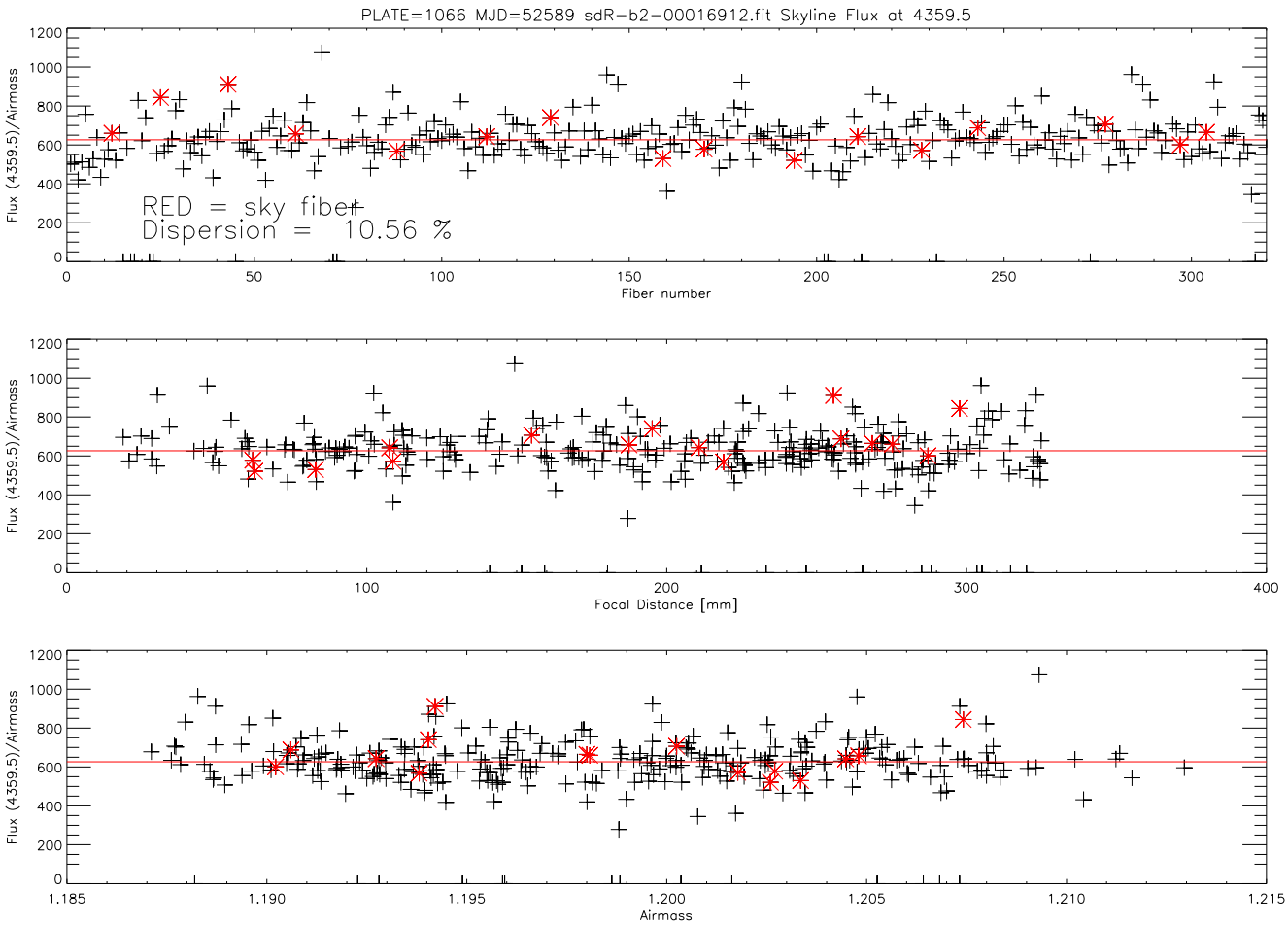

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b2-00016912.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

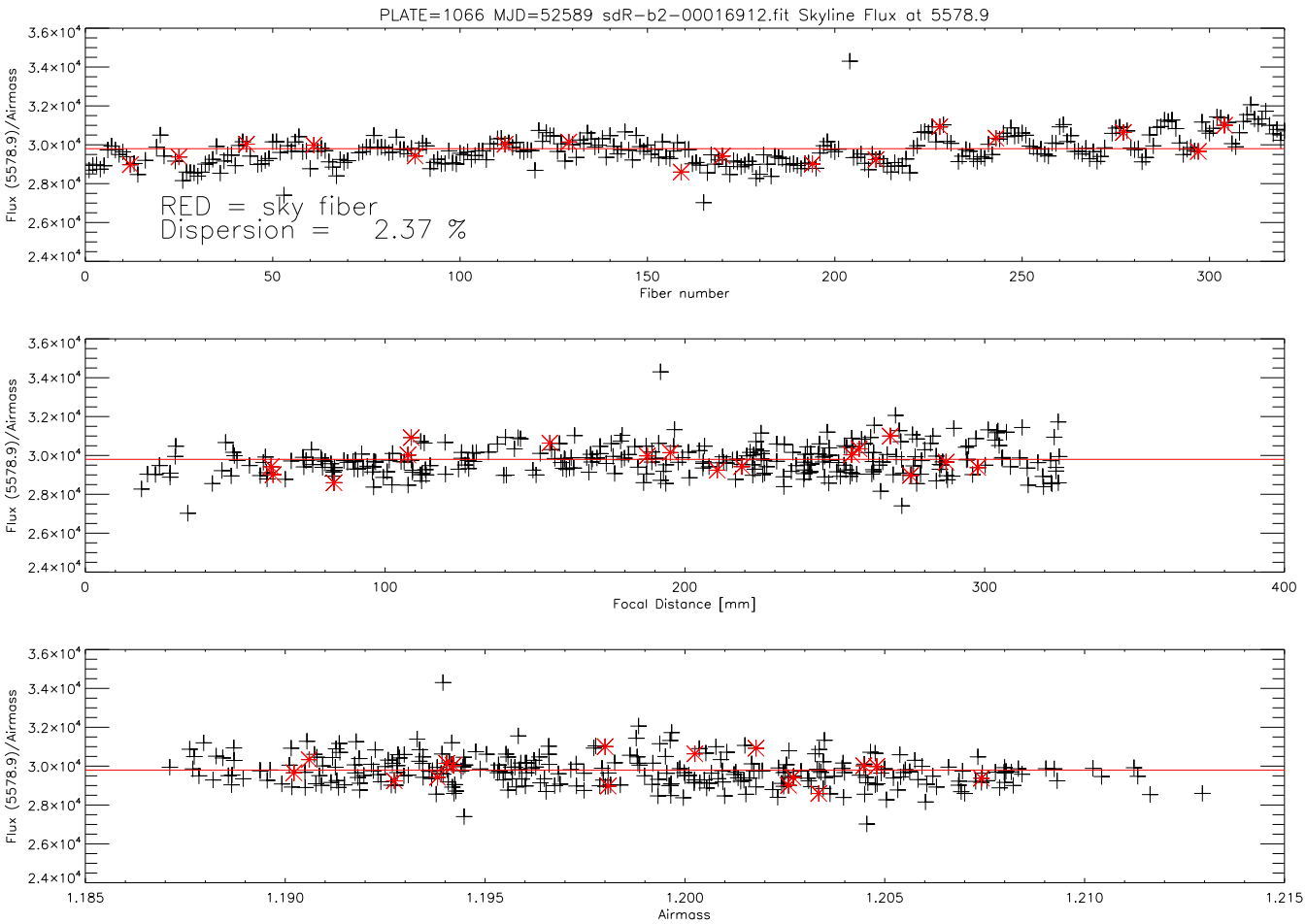

PLATE=1066 MJD=52589 sdR-b2-00016912.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

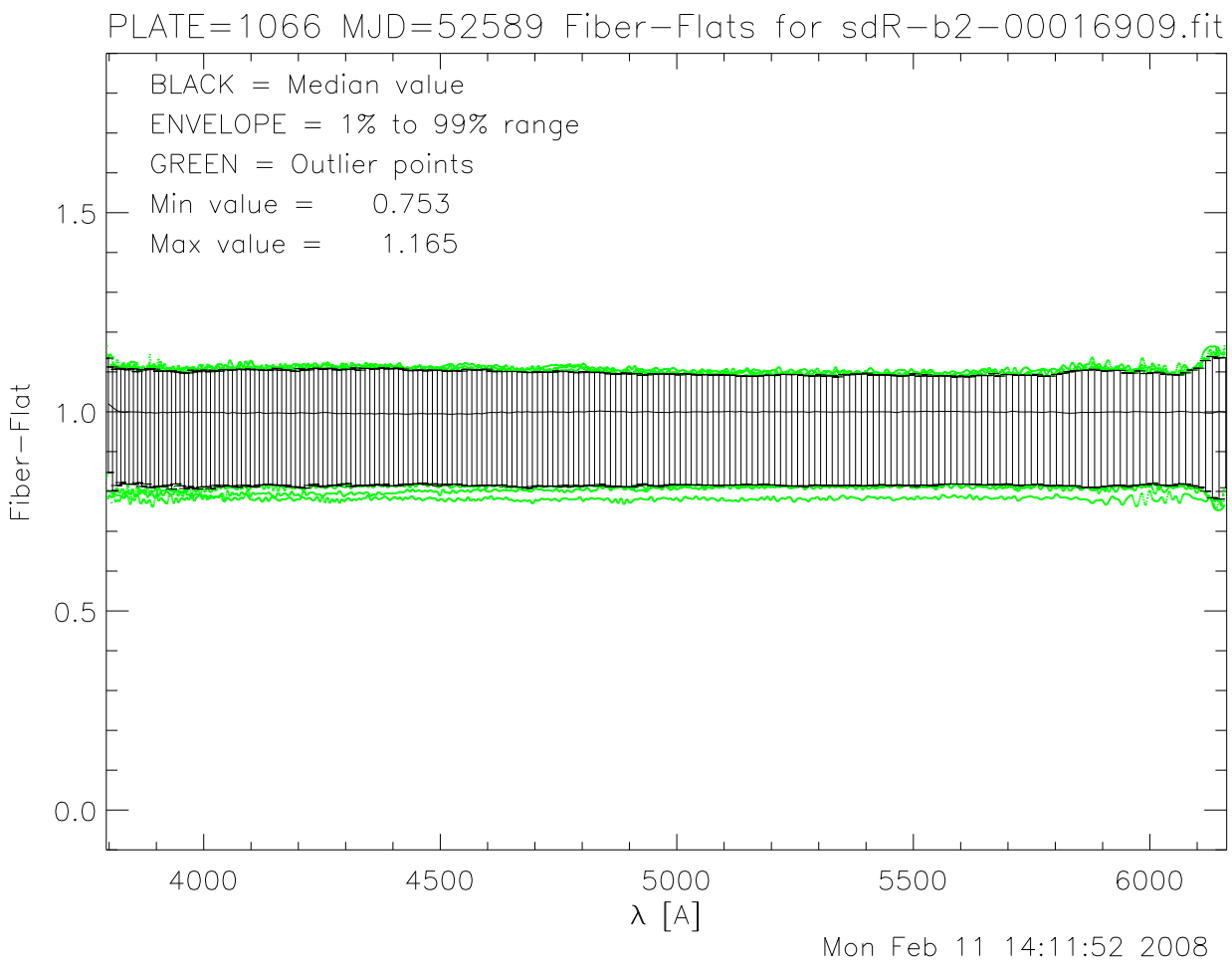

PLATE=1066 MJD=52589 sdR-b2-00016912.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

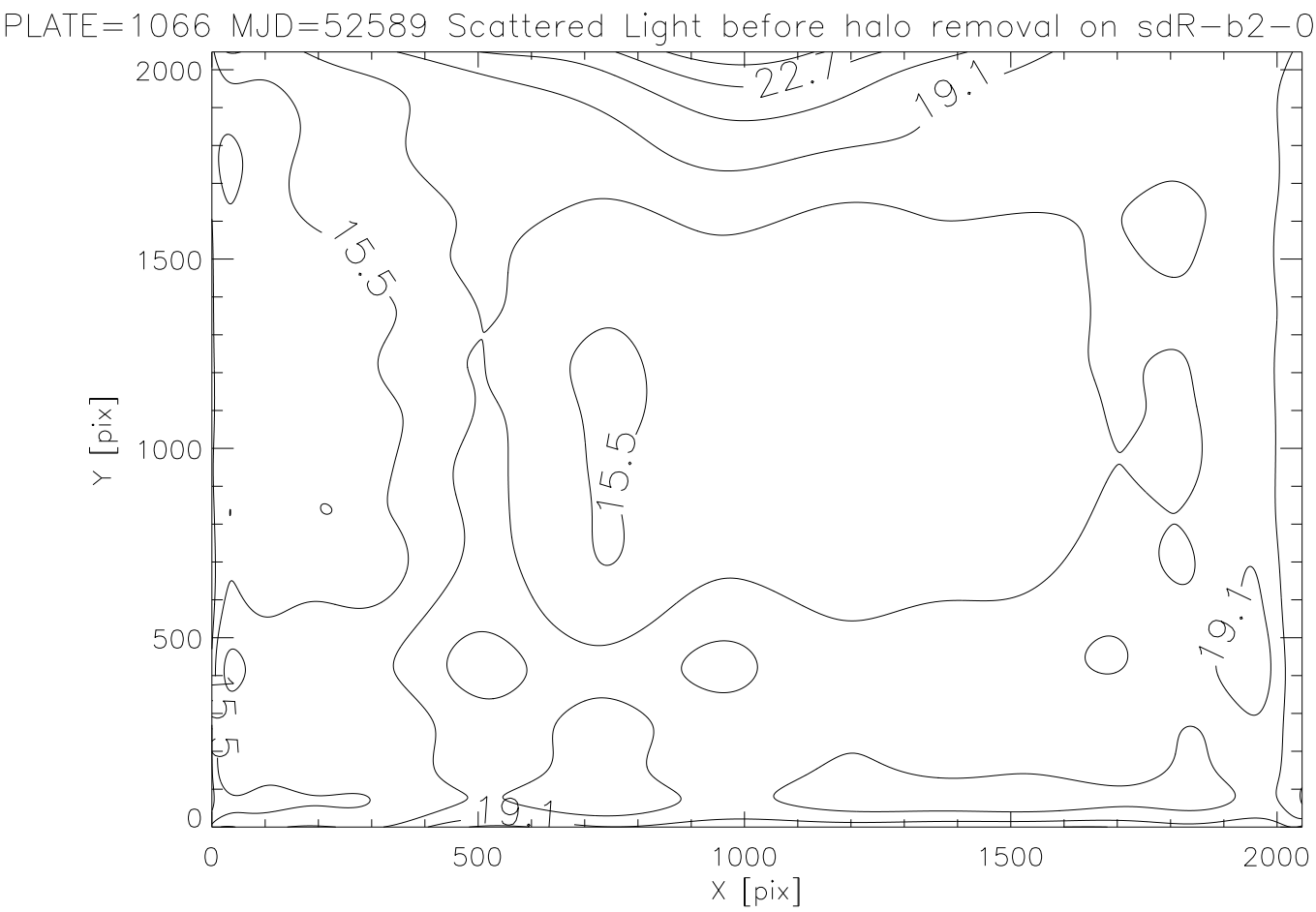

PLATE=1066 MJD=52589 sdR-b2-00016912.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
−600
5570
5575
5580
5585
5590
λ [A]

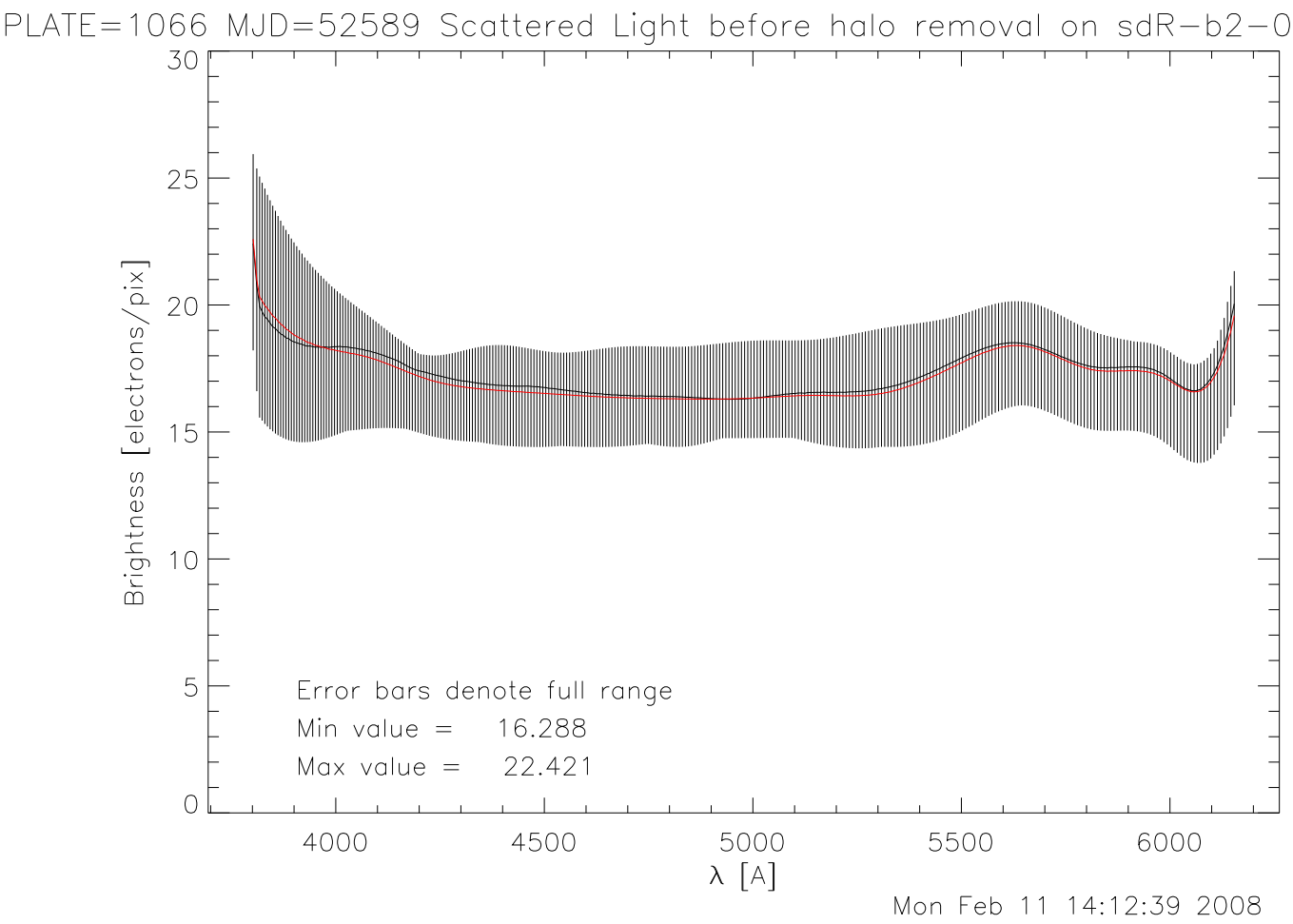

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b2-00016912.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

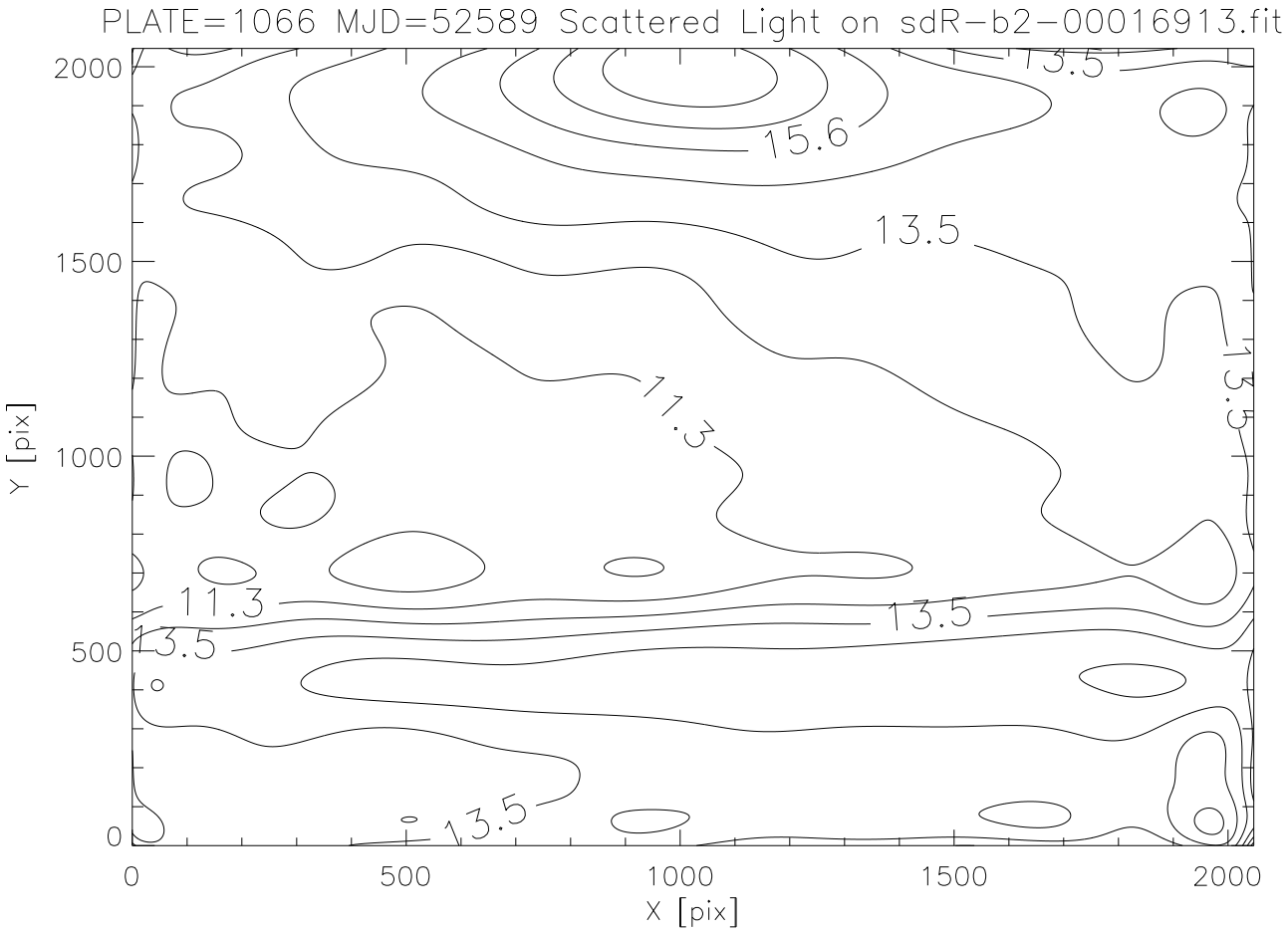

PLATE=1066 MJD=52589 sdR-b2-00016912.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.56 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

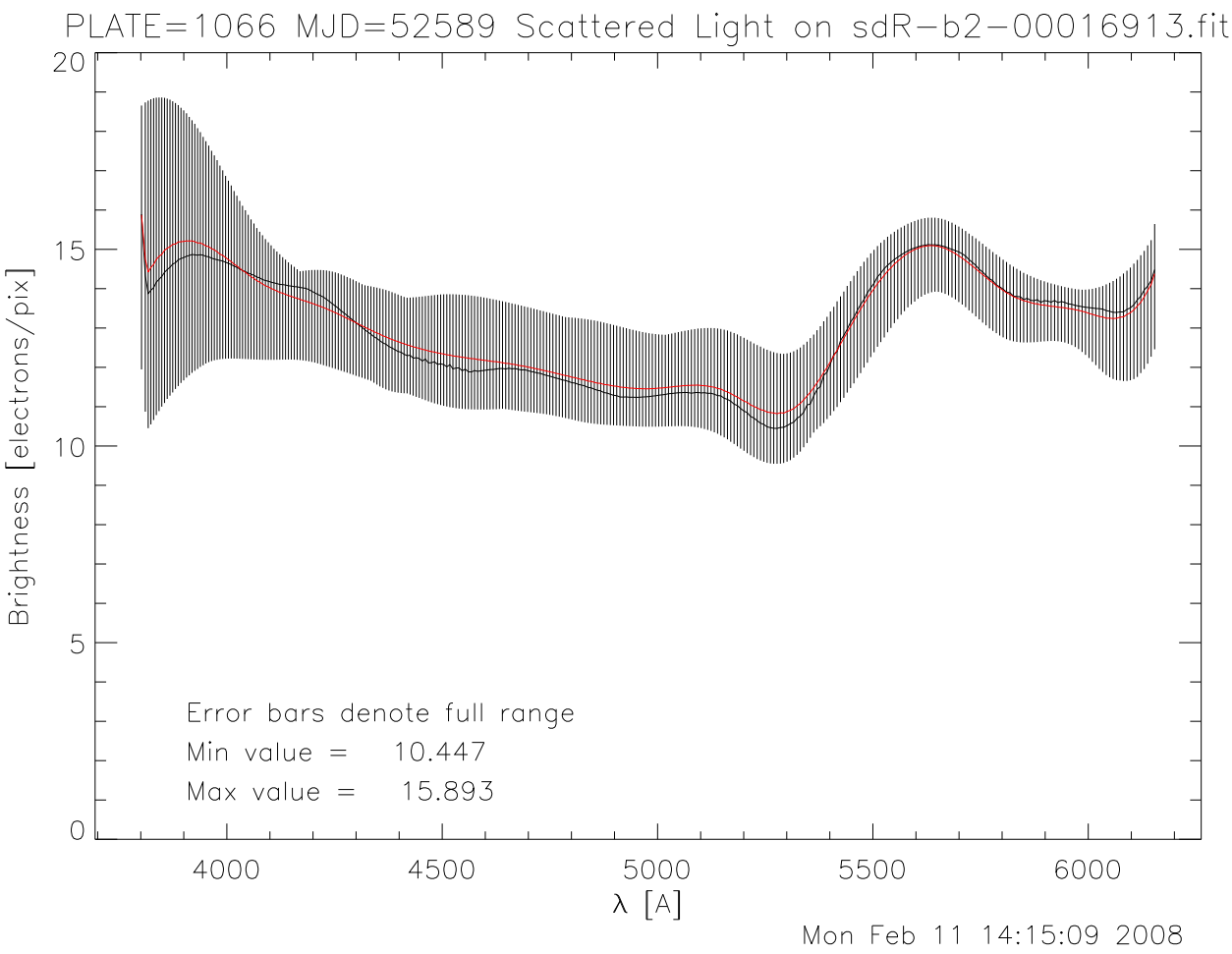

PLATE=1066 MJD=52589 sdR-b2-00016912.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.37 %
Fiber number
Focal Distance [mm]
Airmass

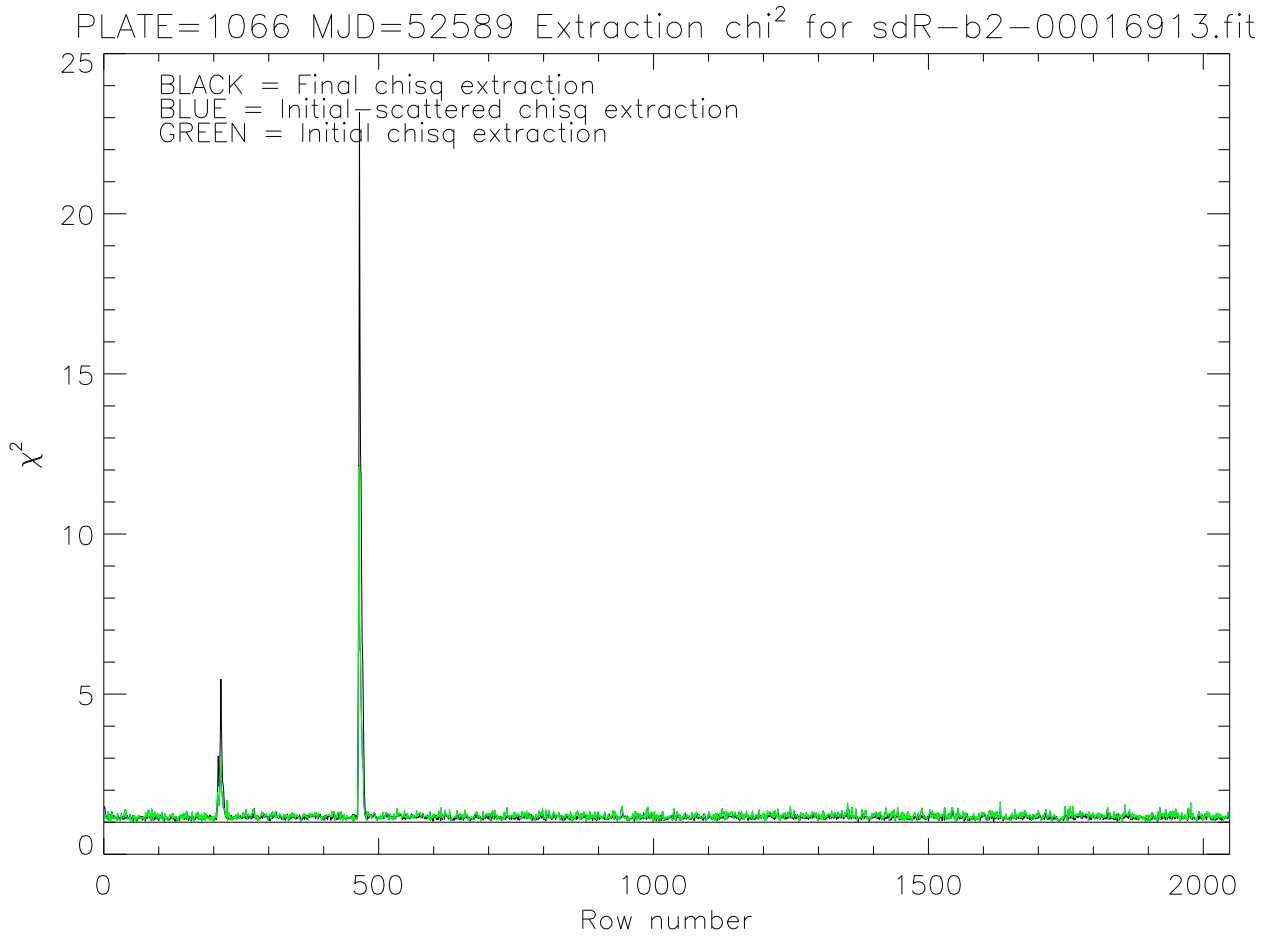

PLATE=1066 MJD=52589 Fiber-Flats for sdR-b2-00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.753
Max value = 1.165
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 14:11:52 2008

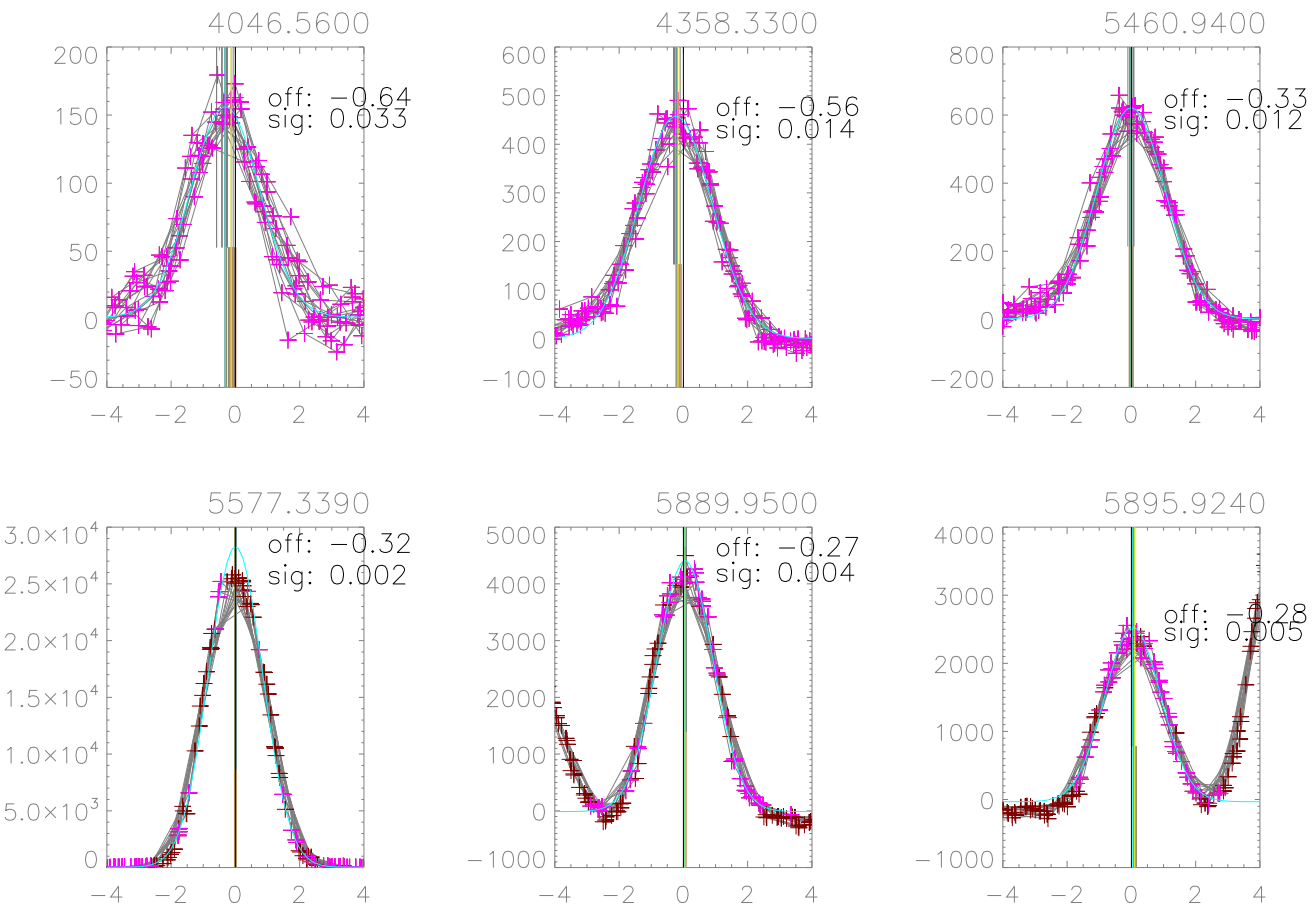

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-b2-00016913.f
22.7
19.1
15.5
15.5
19.1
19.1
15.5
Y [pix]
X [pix]
0
500
1000
1500
2000

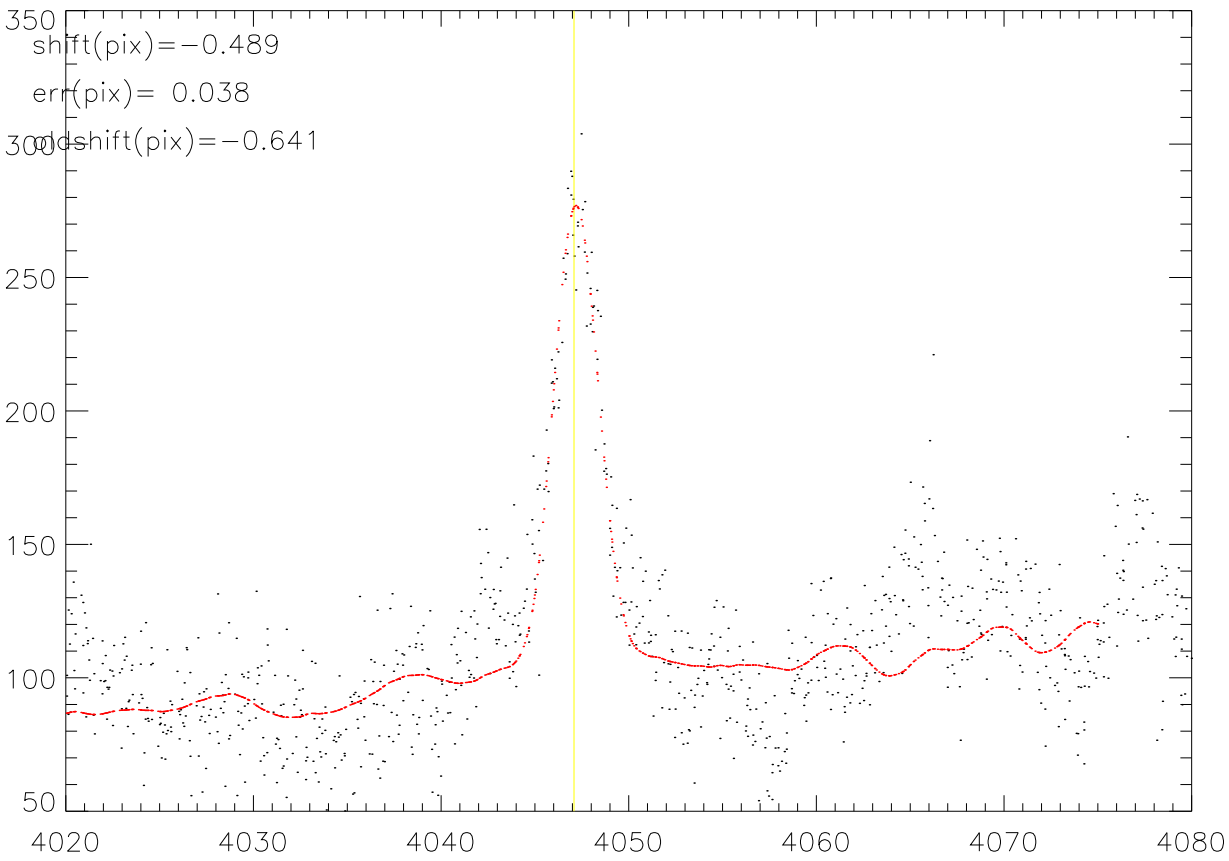

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-b2-00016913.f
Brightness [electrons/pix]
30
25
20
15
10
5
0
Error bars denote full range
Min value = 16.288
Max value = 22.421
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 14:12:39 2008

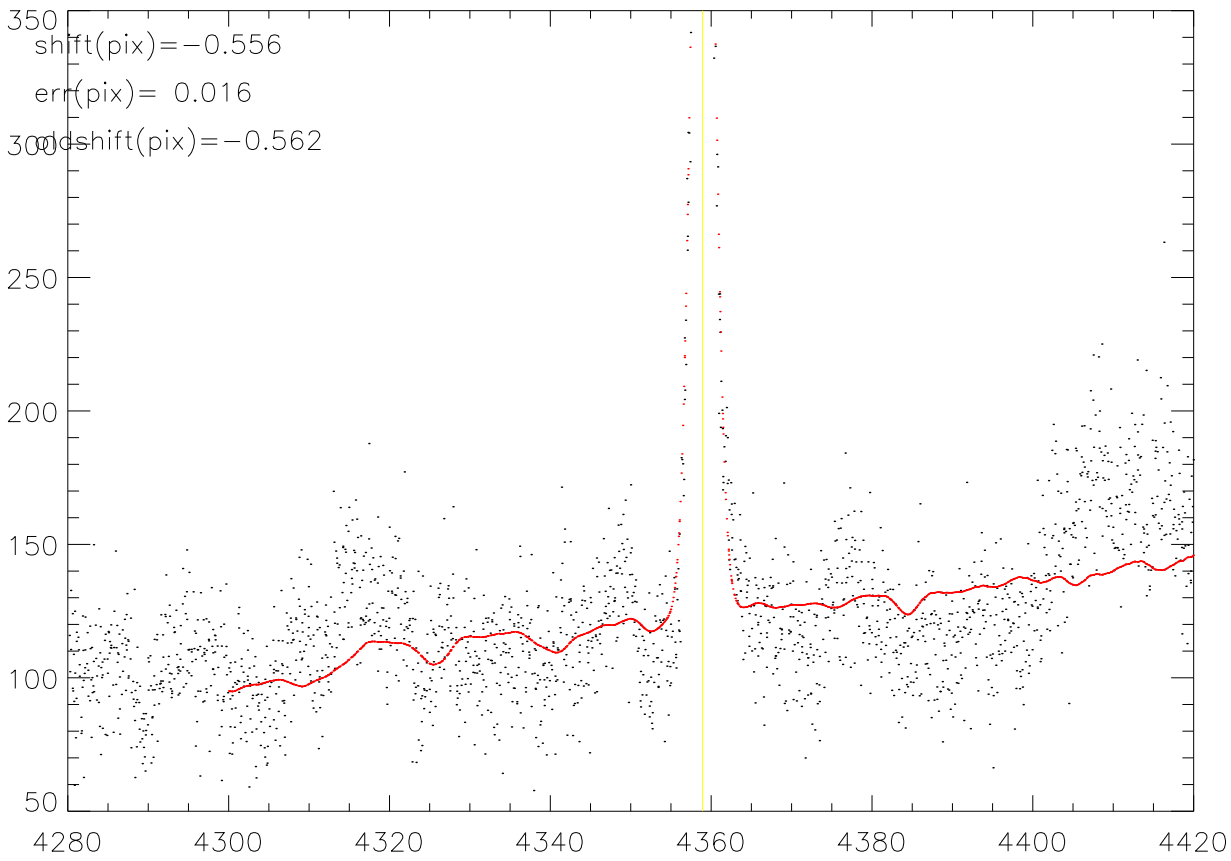

PLATE=1066 MJD=52589 Scattered Light on sdR-b2-00016913.fit
15.6
13.5
11.3
13.5
11.3
13.5
13.5
13.5
13.5
Y [pix]
X [pix]
0
500
1000
1500
2000

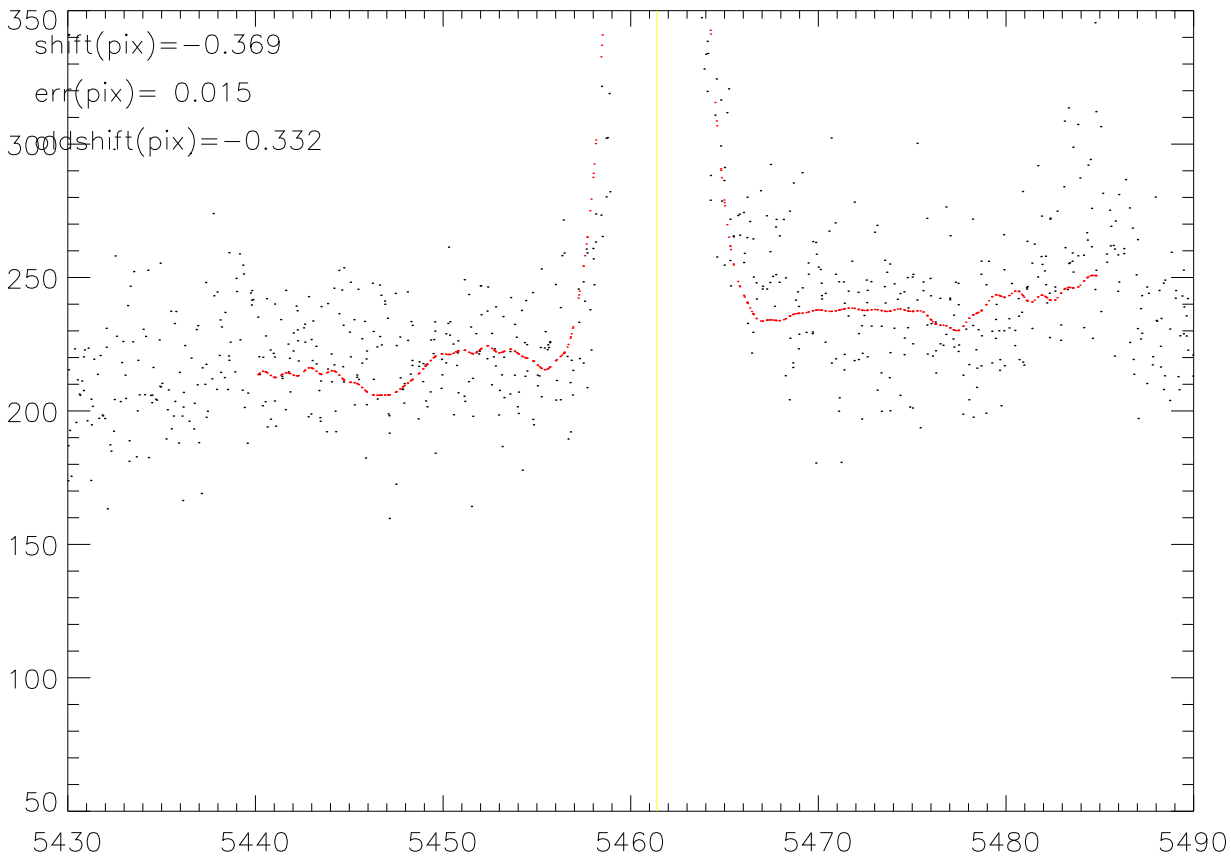

PLATE=1066 MJD=52589 Scattered Light on sdR-b2-00016913.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 10.447
Max value = 15.893
Mon Feb 11 14:15:09 2008

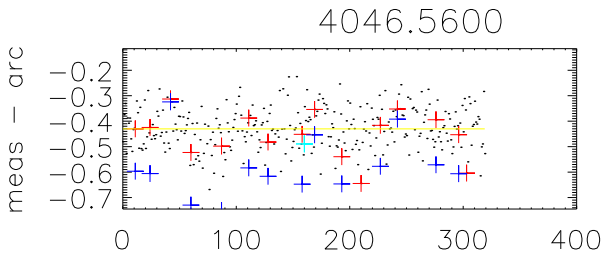

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-b2-00016913.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
25
0
500
1000
1500
2000
Row number

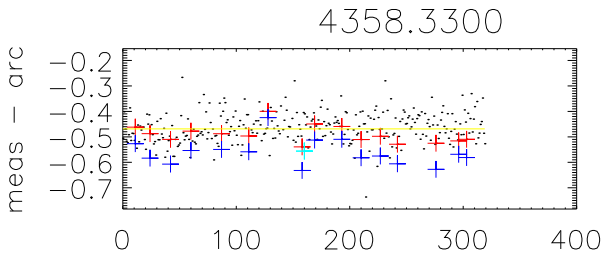

4046.5600
off: −0.64
sig: 0.033
4358.3300
off: −0.56
sig: 0.014
5460.9400
off: −0.33
sig: 0.012
5577.3390
off: −0.32
sig: 0.002
5889.9500
off: −0.27
sig: 0.004
5895.9240
off: −0.28
sig: 0.005

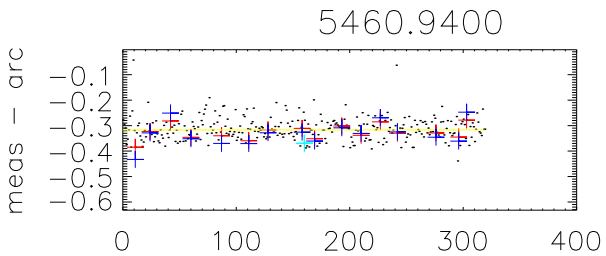

shift(pix)=−0.489
err(pix)= 0.038
oldshift(pix)=−0.641
350
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

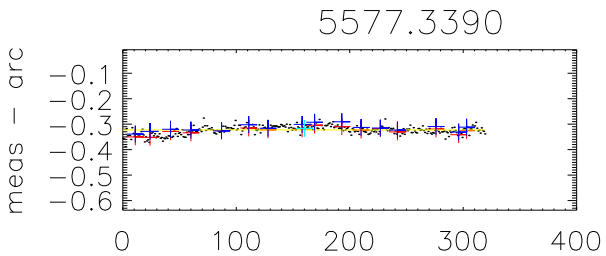

shift(pix)=−0.556
err(pix)= 0.016
oldshift(pix)=−0.562
350
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

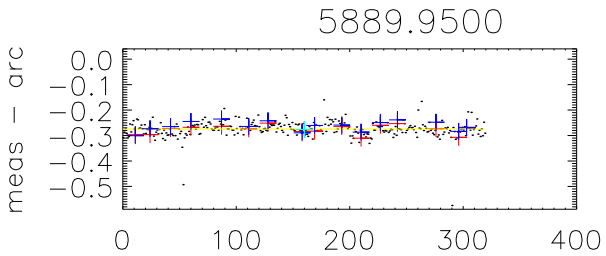

shift(pix)=−0.369
err(pix)= 0.015
oldshift(pix)=−0.332
350
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

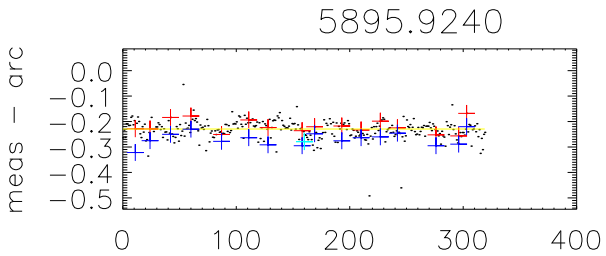

4046.5600
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

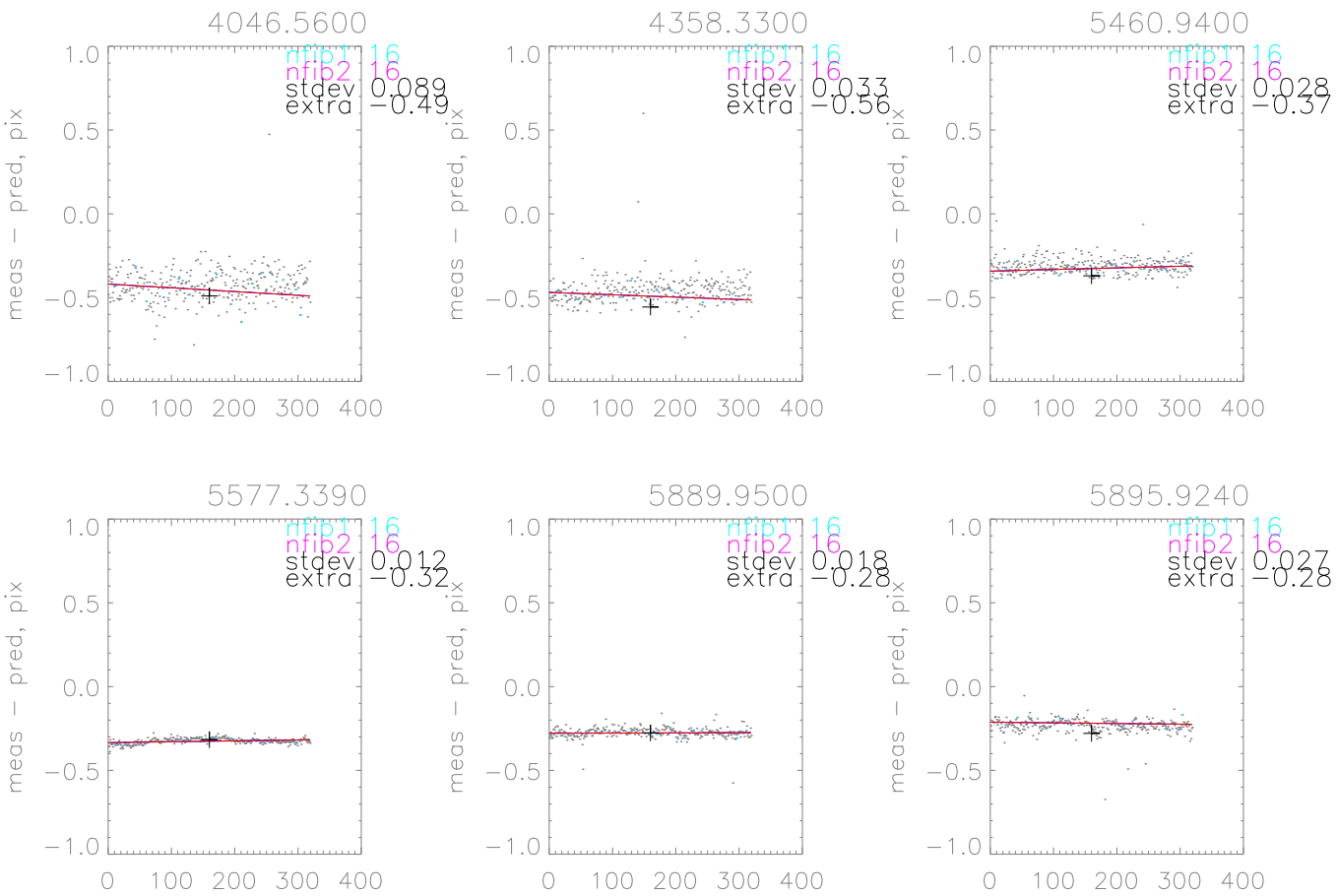

4358.3300
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

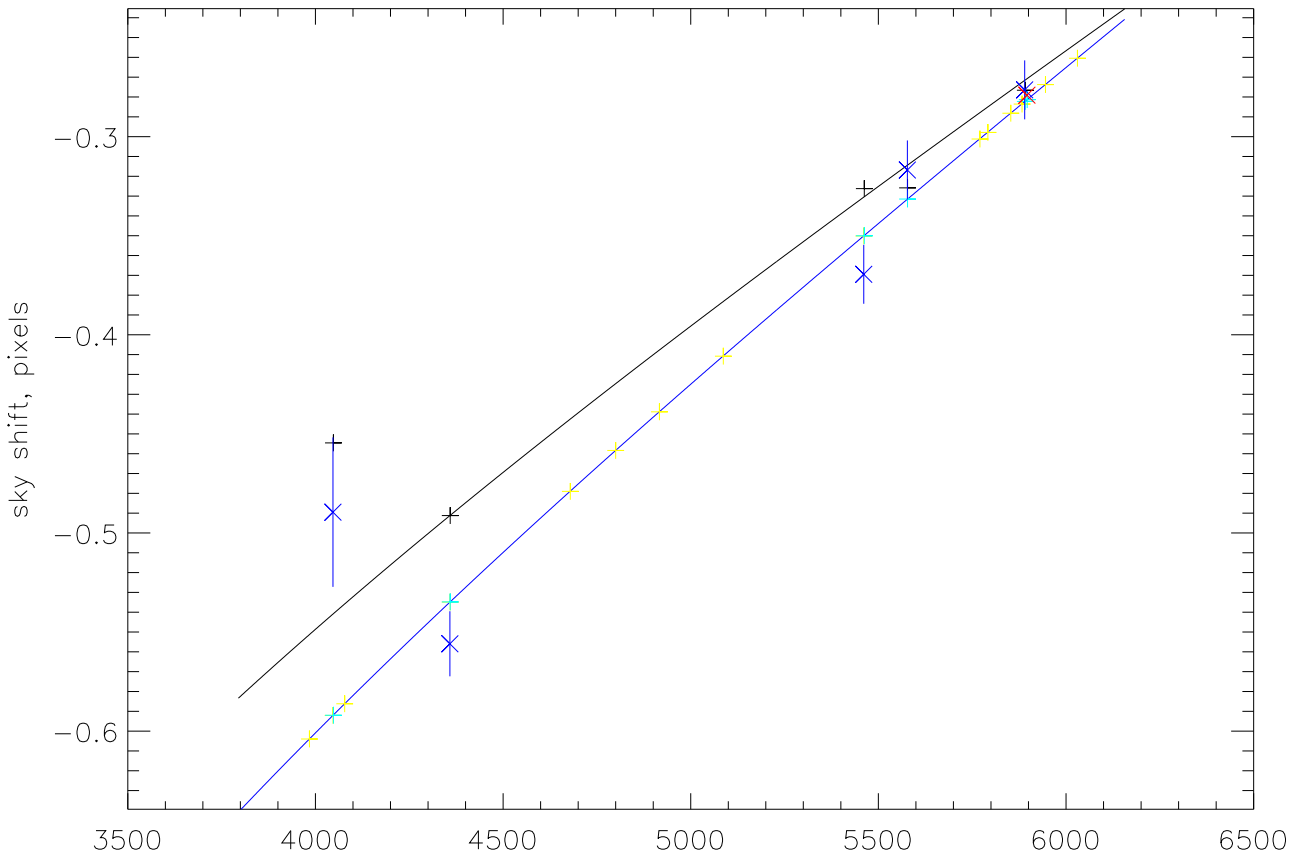

5460.9400
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


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

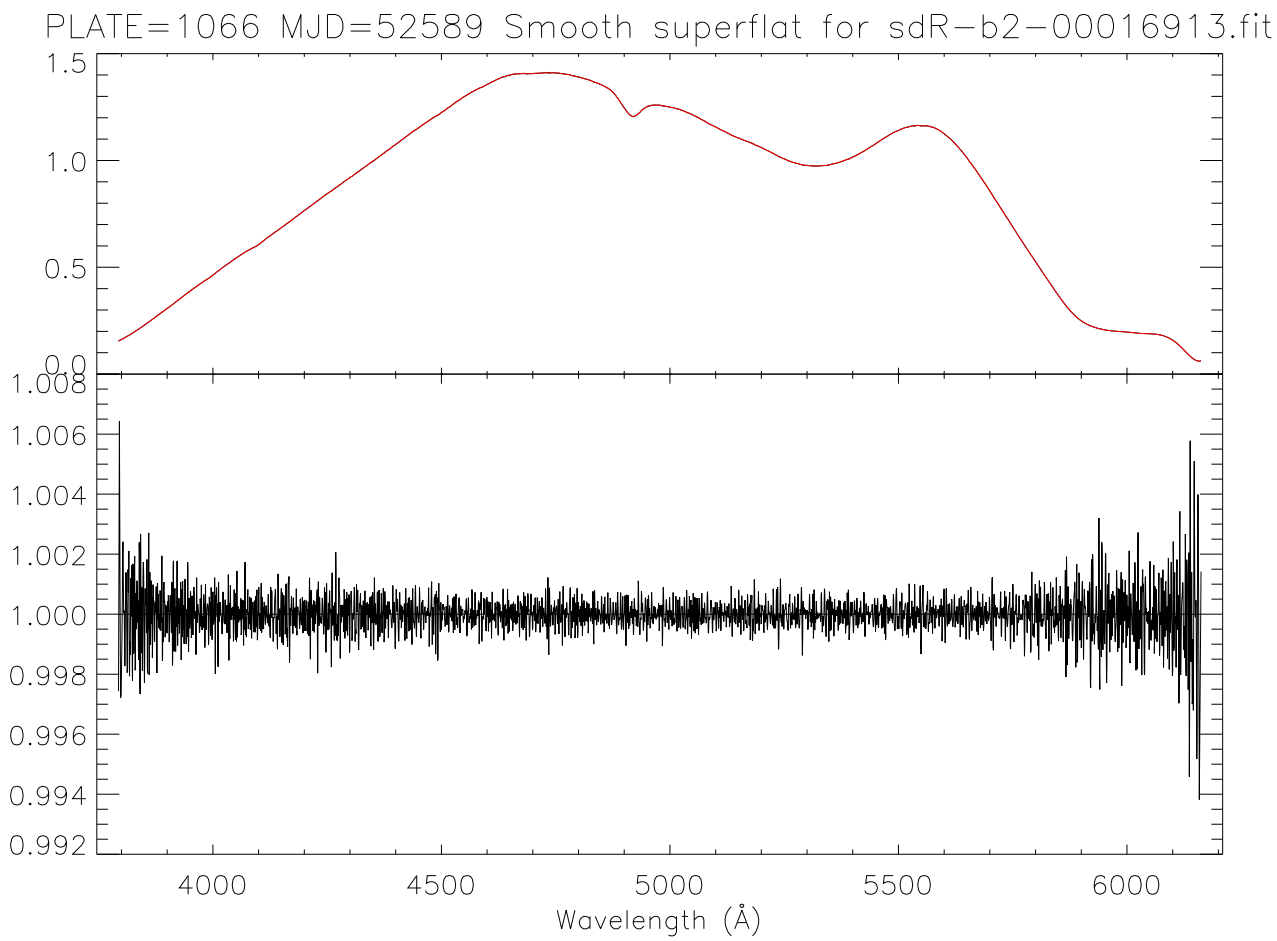

5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

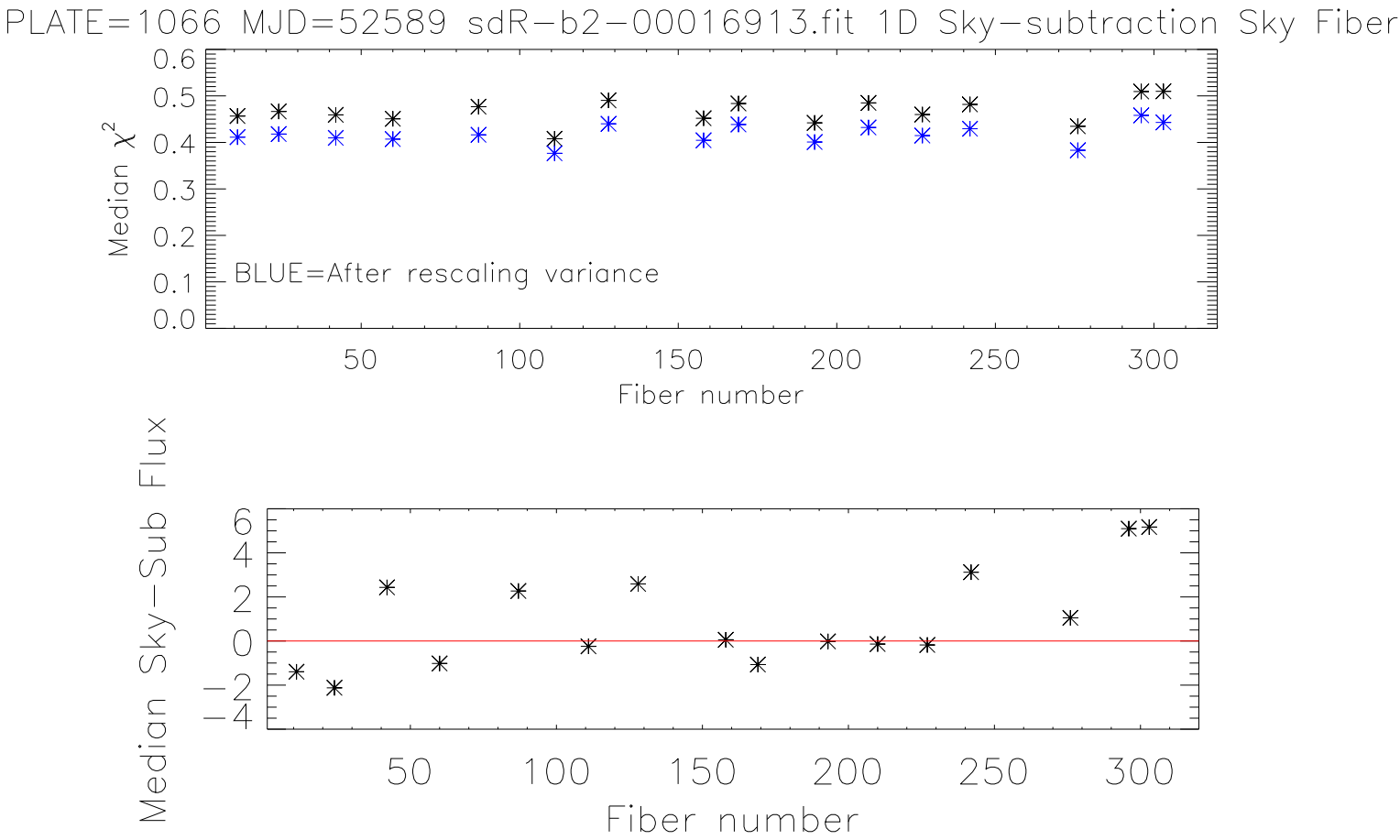

5895.9240
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

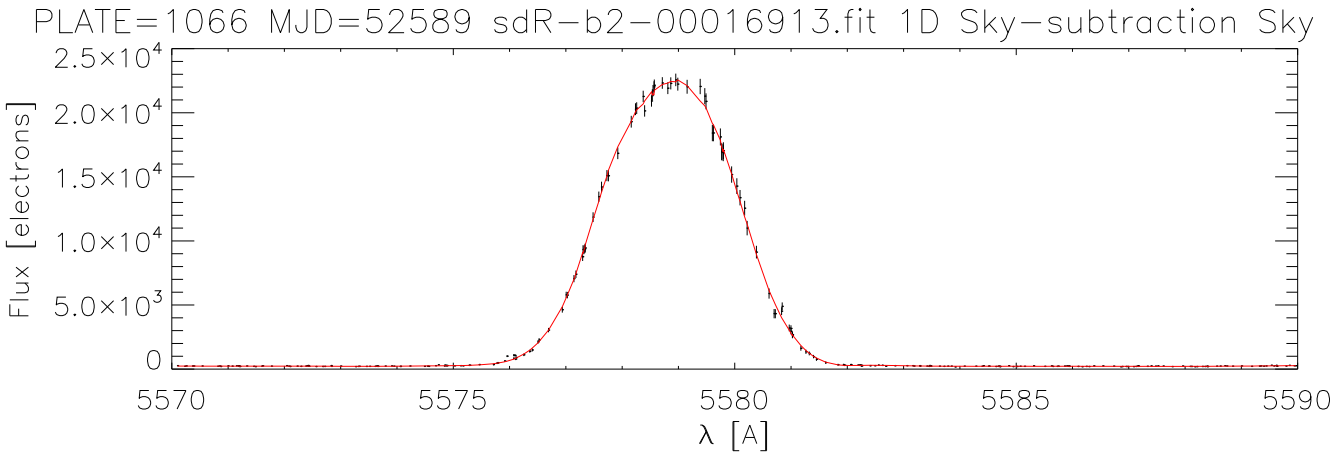

4046.5600
4358.3300
5460.9400
5577.3390
5889.9500
5895.9240
nfib1 16
nfib2 16
stdev 0.089
extra −0.49
stdev 0.033
extra −0.56
stdev 0.028
extra −0.37
stdev 0.012
extra −0.32
stdev 0.018
extra −0.28
stdev 0.027
extra −0.28
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

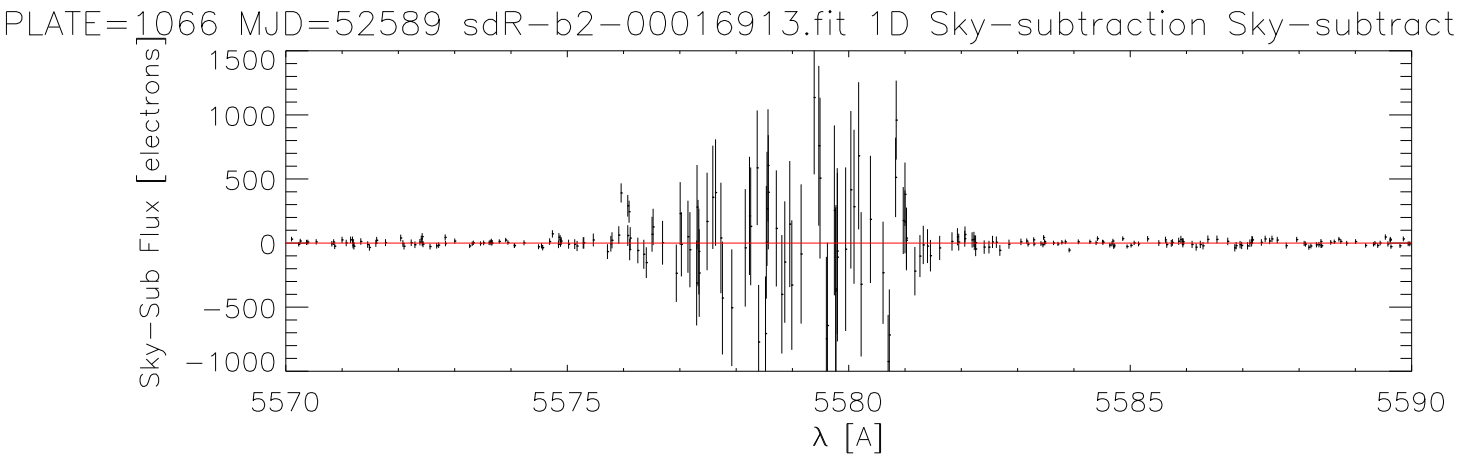

sky shift, pixels
−0.3
−0.4
−0.5
−0.6
3500
4000
4500
5000
5500
6000
6500

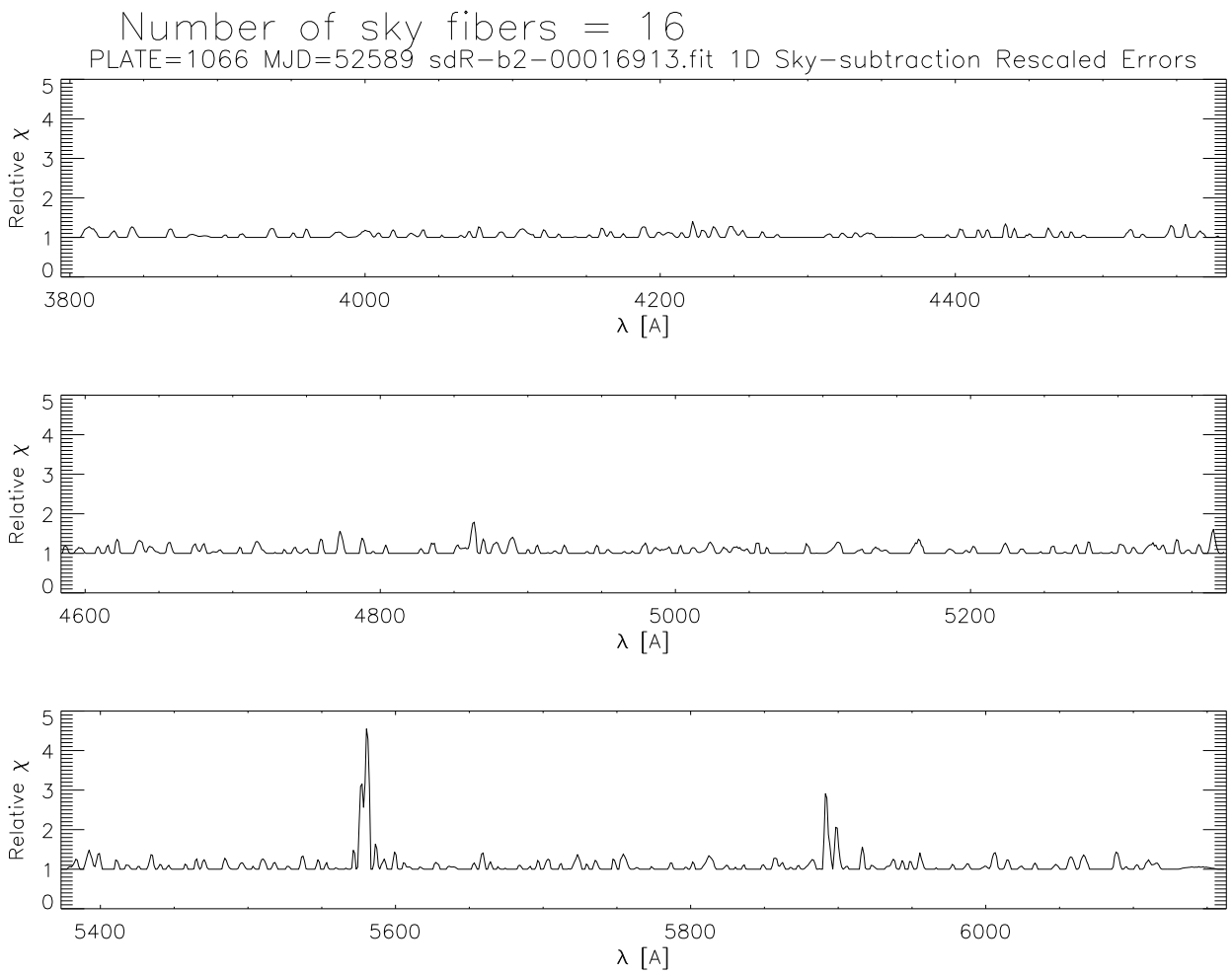
es= −0.0000

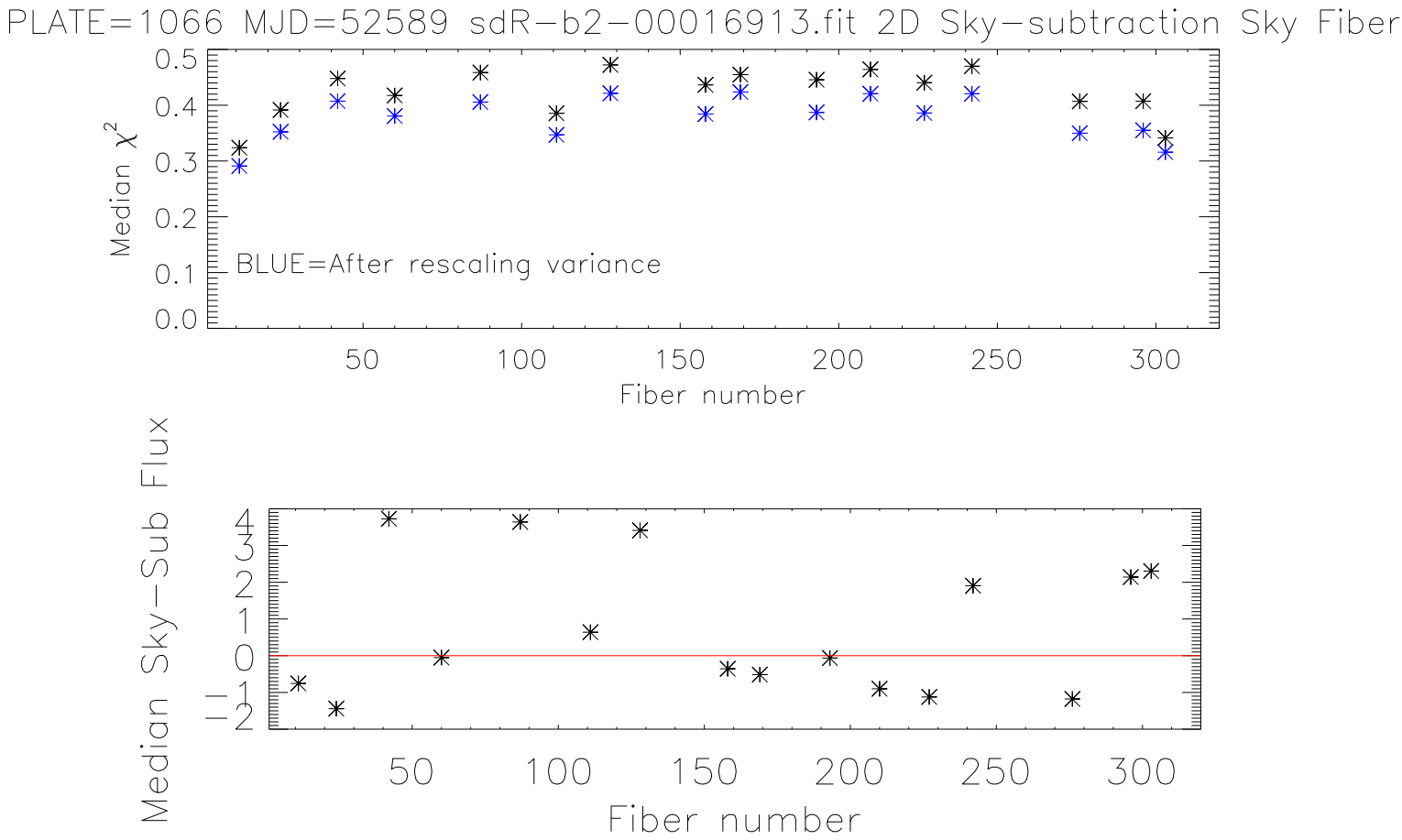

PLATE=1066 MJD=52589 Smooth superflat for sdR−b2−00016913.fit
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
4000
4500
5000
5500
6000
Wavelength (Å)

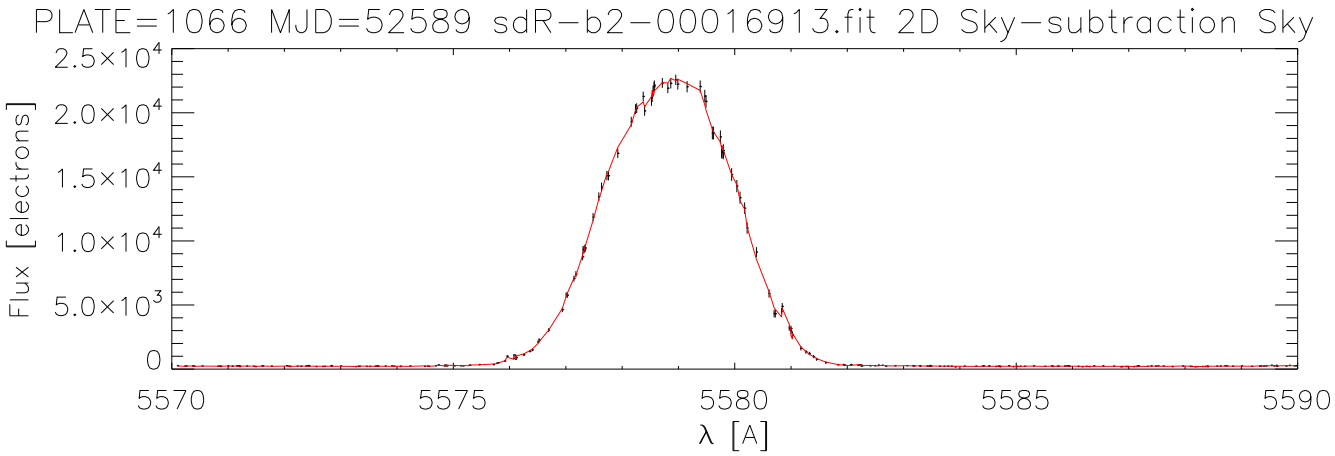

PLATE=1066 MJD=52589 sdR-b2-00016913.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

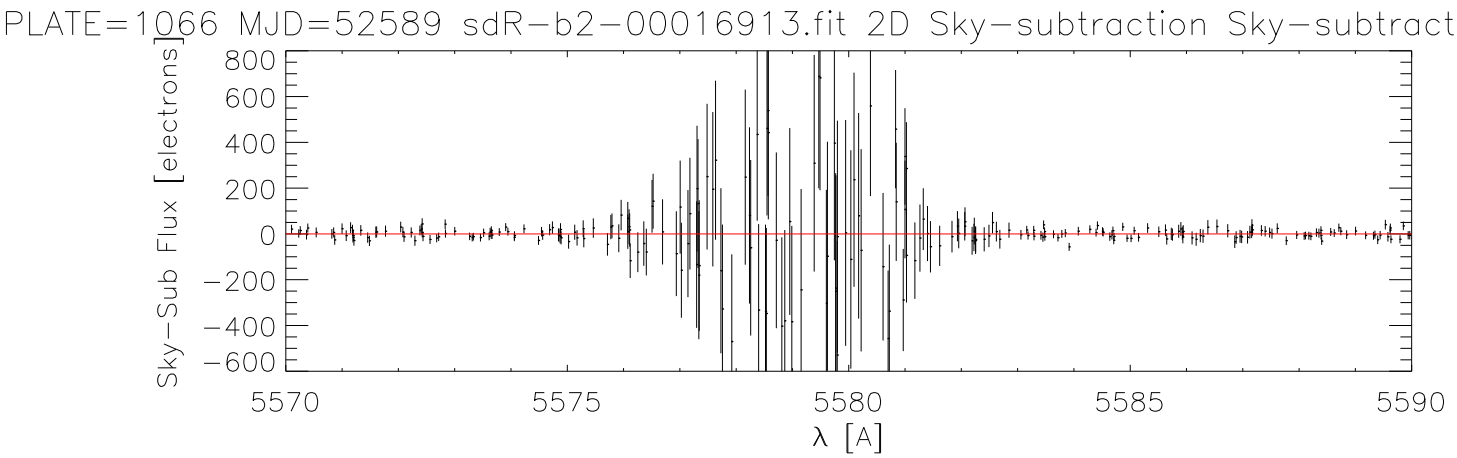

PLATE=1066 MJD=52589 sdR-b2-00016913.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2.5×10^4
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

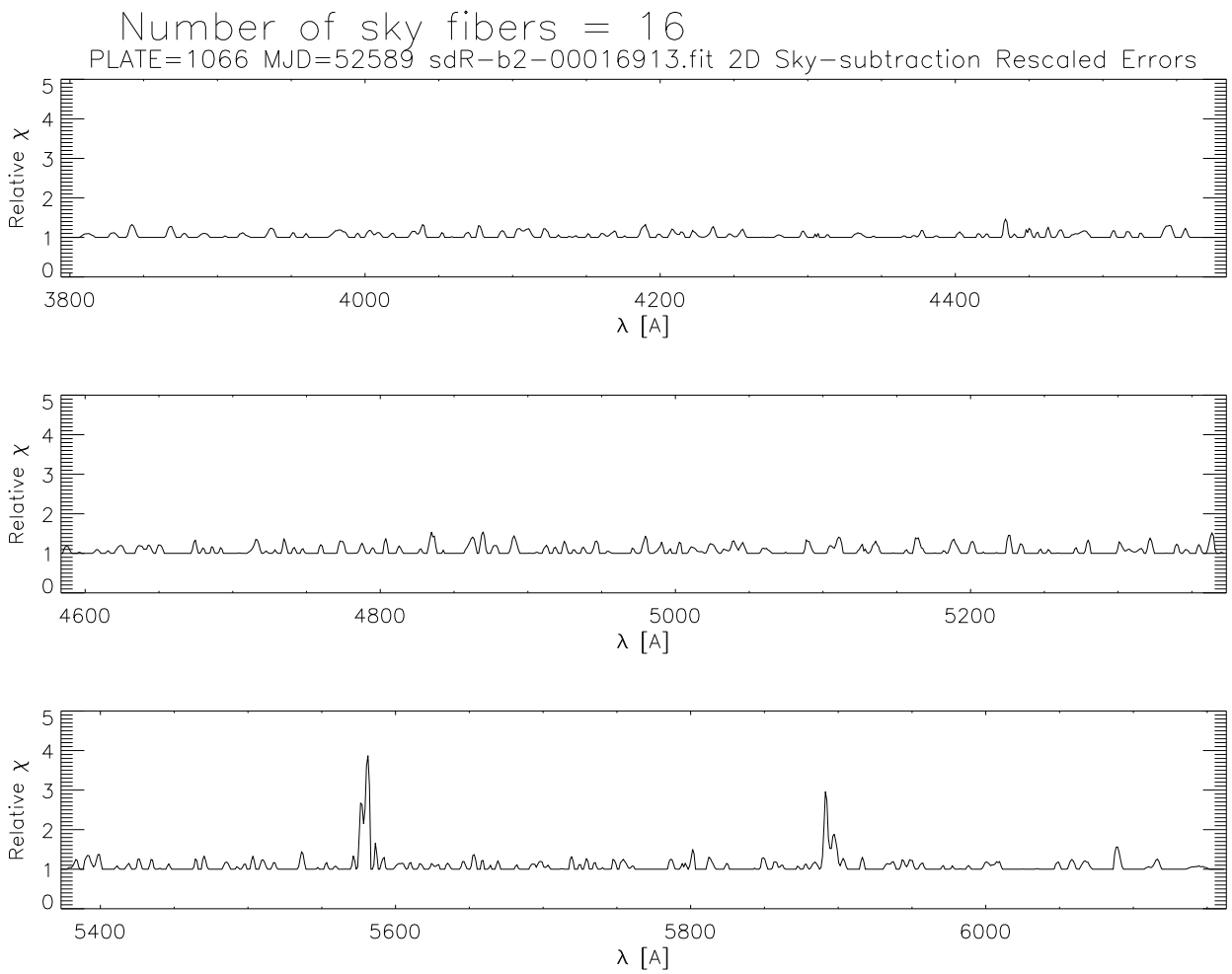

PLATE=1066 MJD=52589 sdR-b2-00016913.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

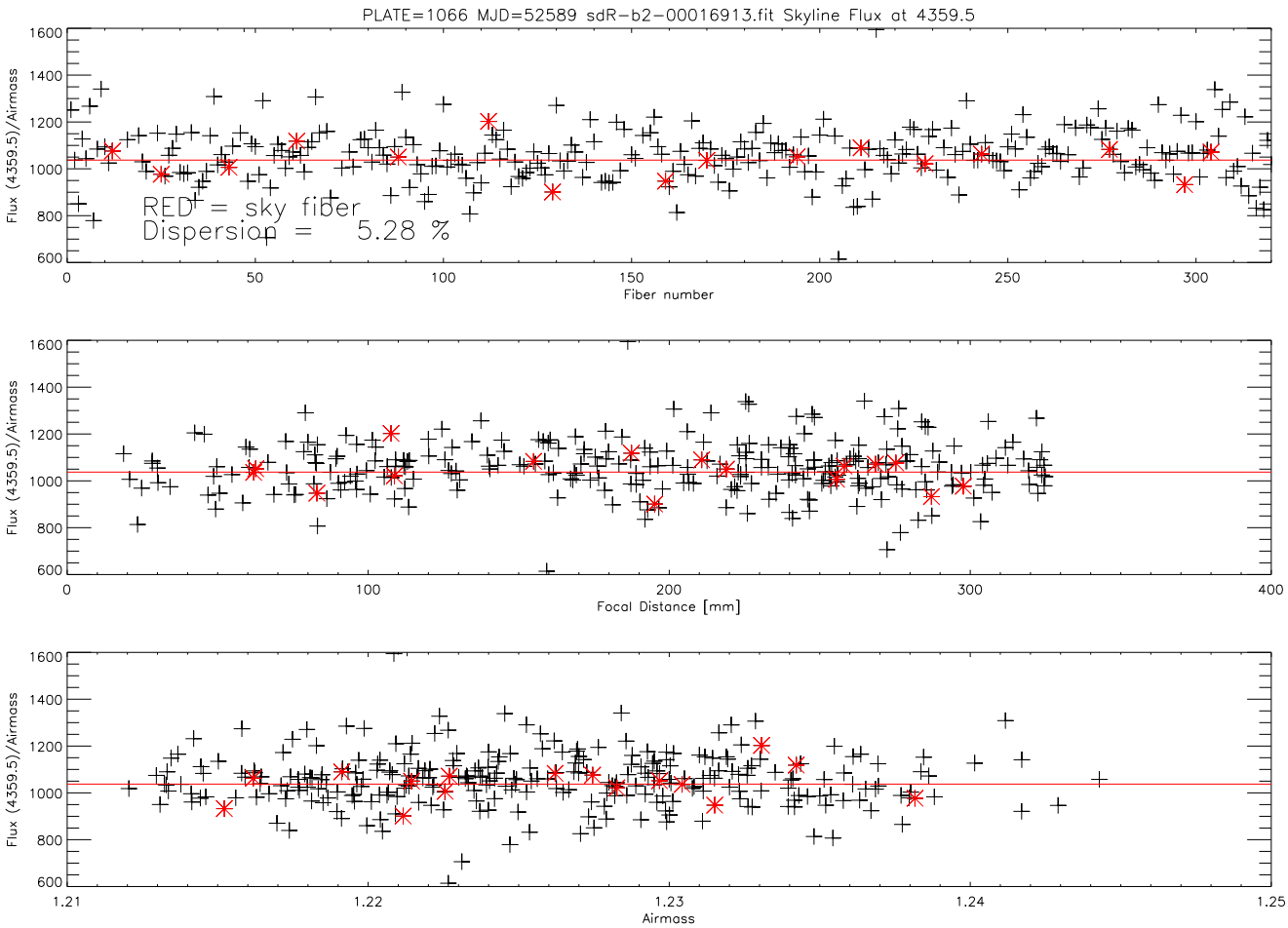

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b2-00016913.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

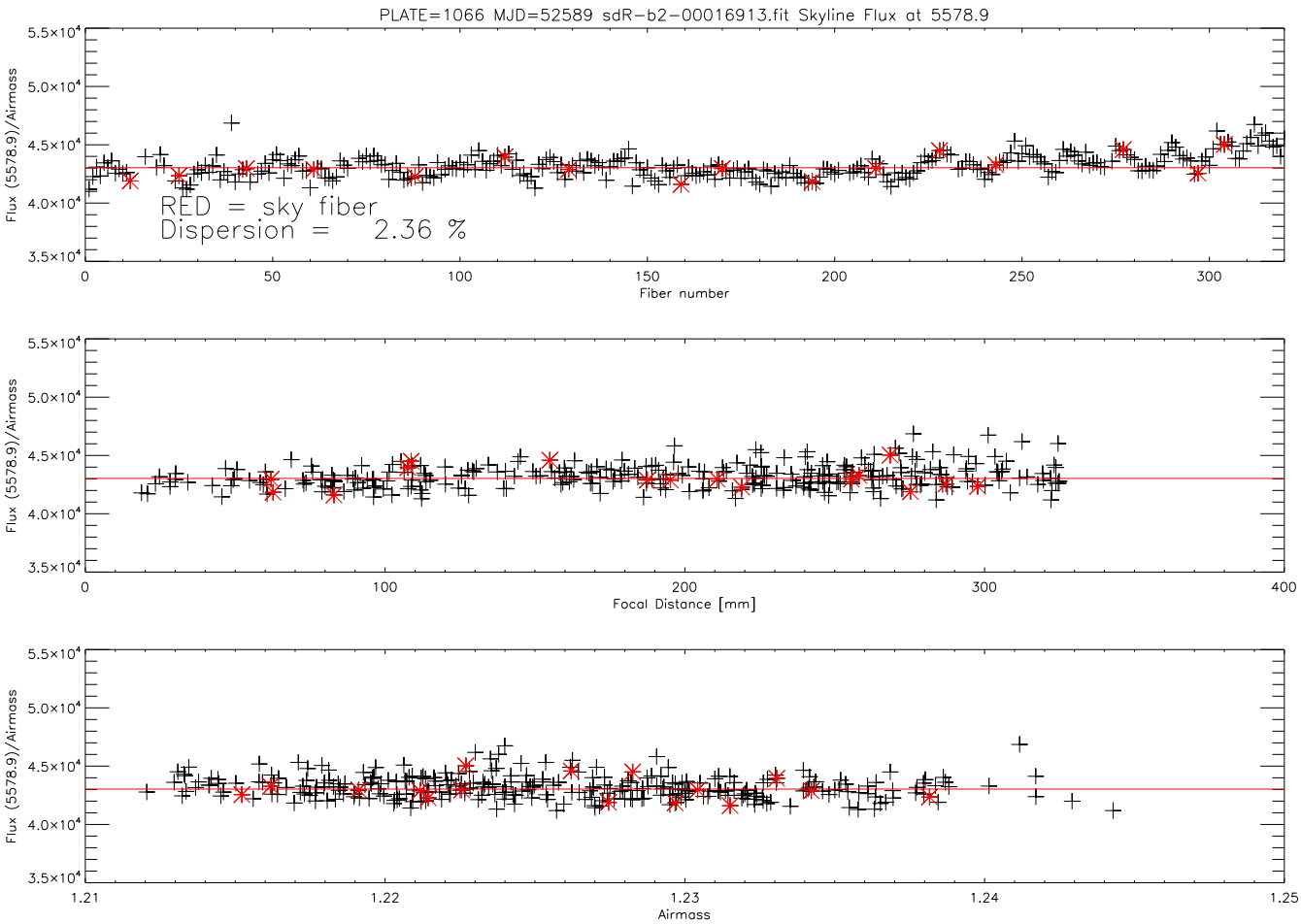

PLATE=1066 MJD=52589 sdR-b2-00016913.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

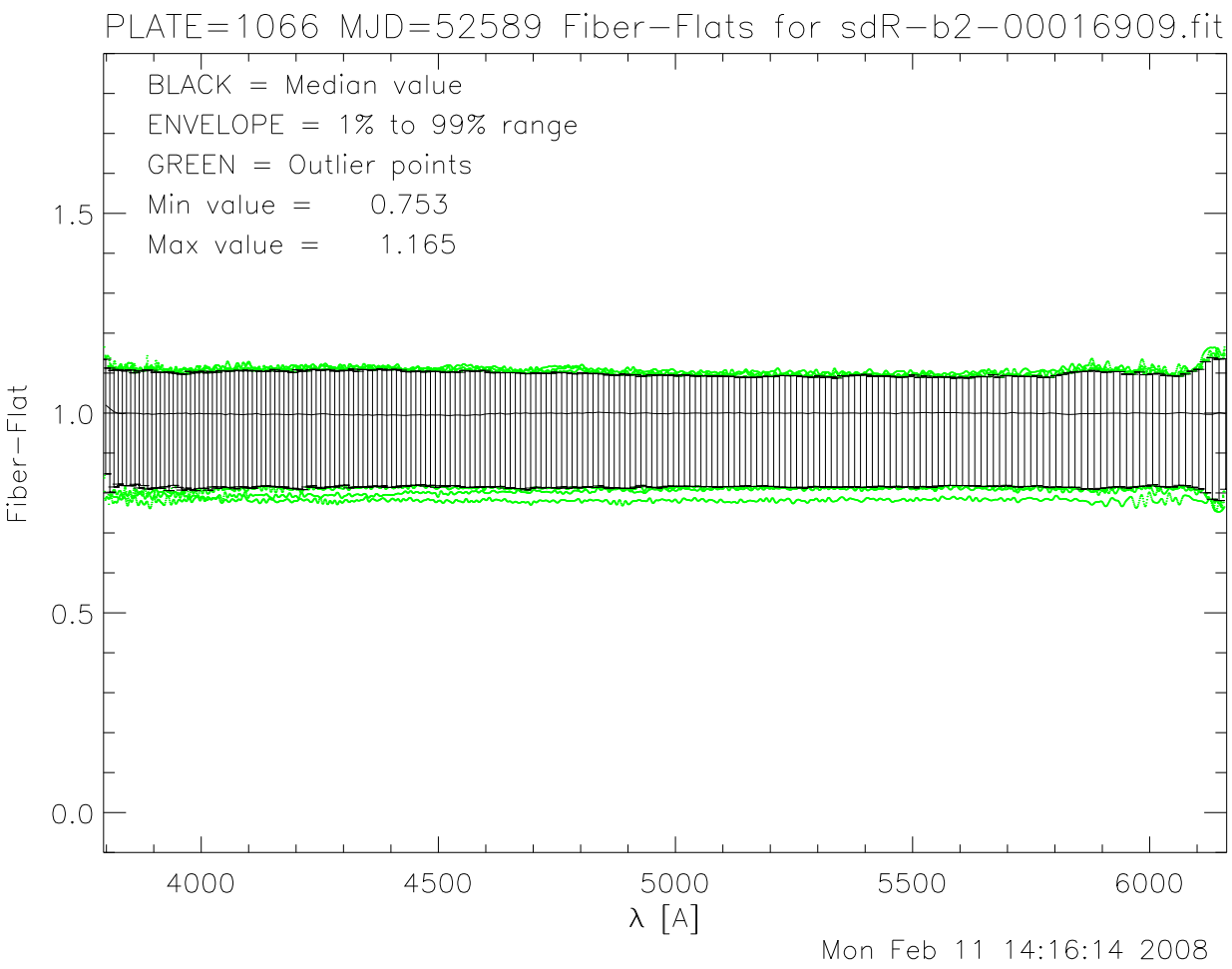

PLATE=1066 MJD=52589 sdR-b2-00016913.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2.5×10^4
2.0×10^4
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

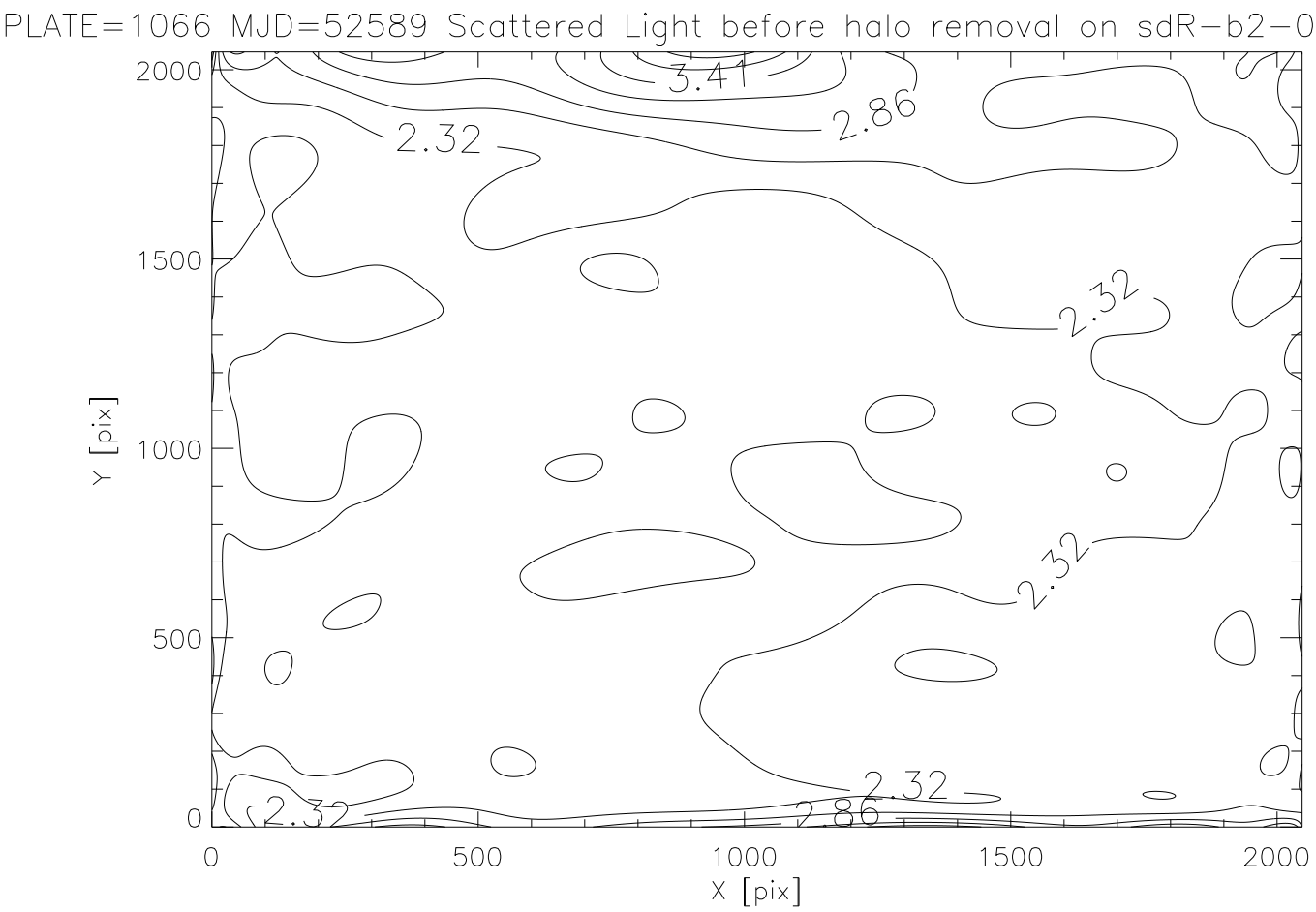

PLATE=1066 MJD=52589 sdR-b2-00016913.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
−200
−400
−600
5570
5575
5580
5585
5590
λ [A]

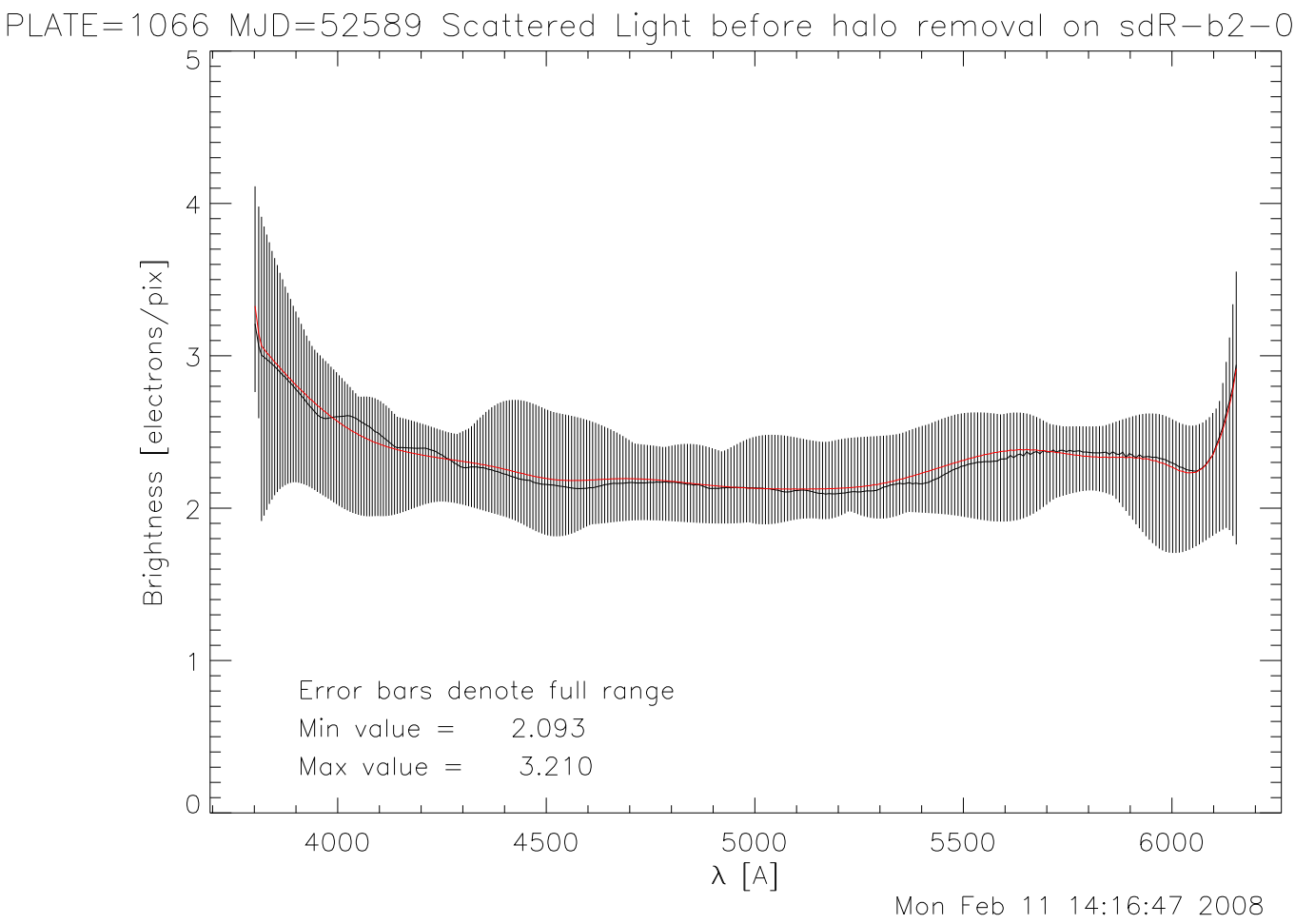

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b2-00016913.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

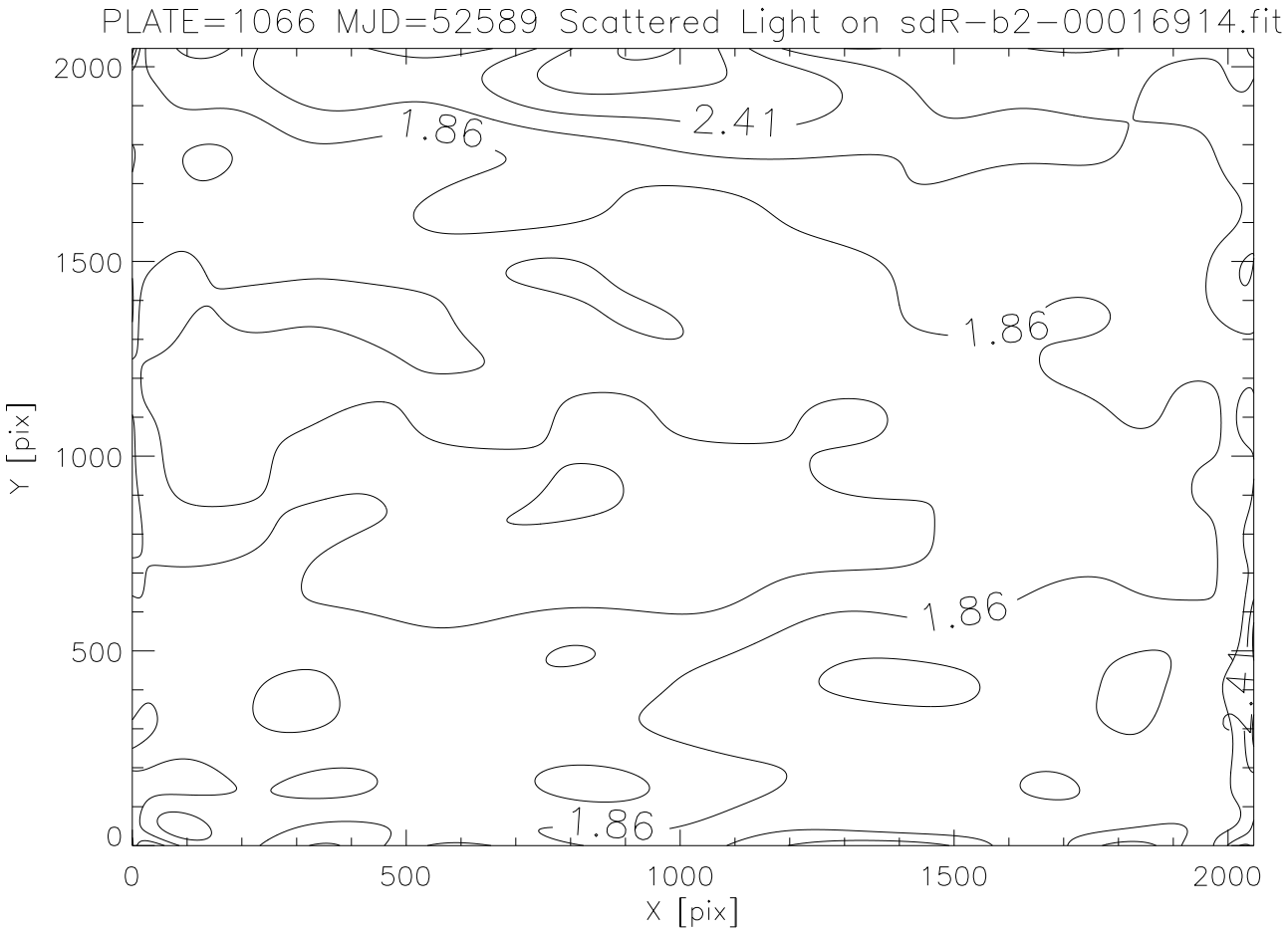

PLATE=1066 MJD=52589 sdR-b2-00016913.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 5.28 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

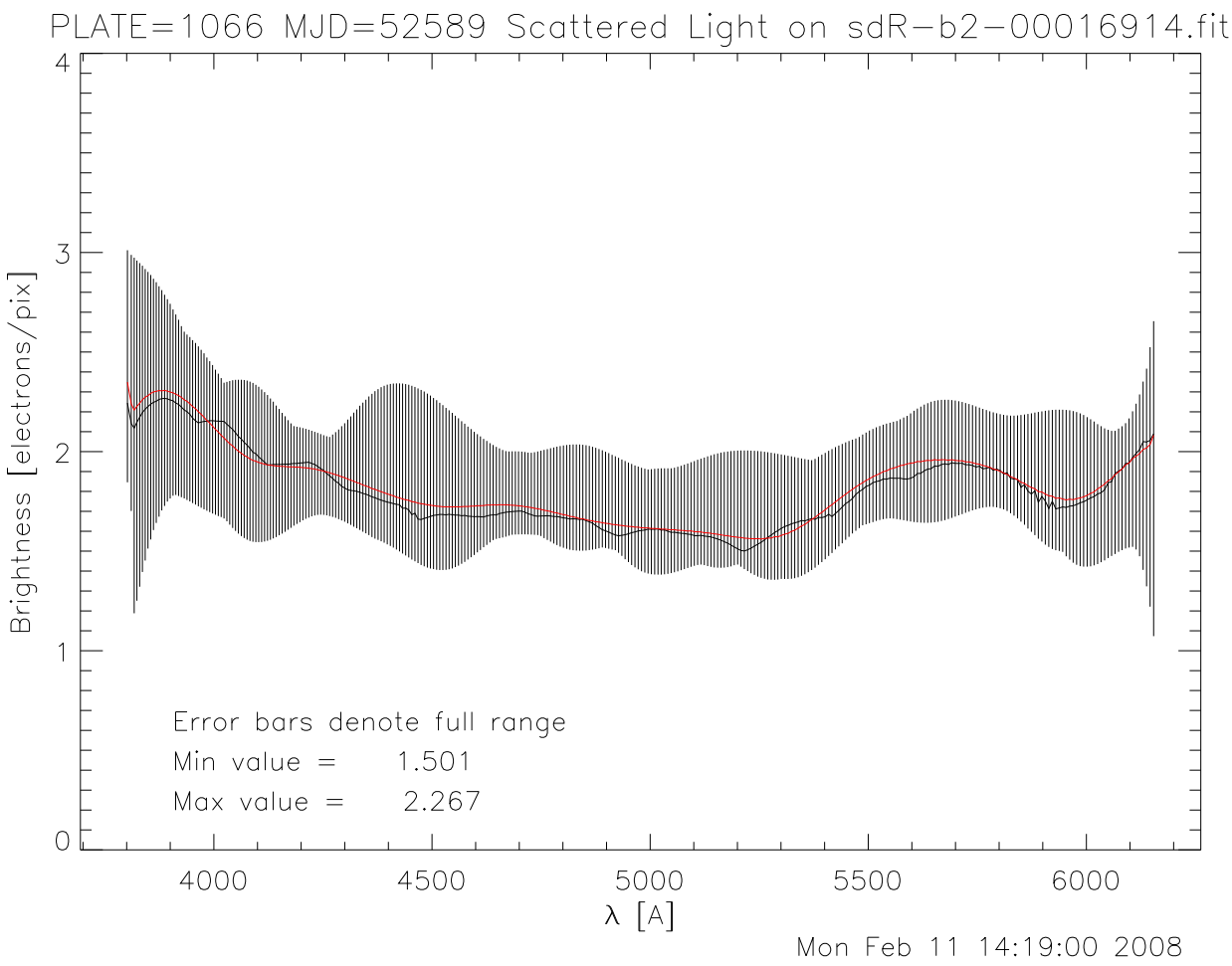

PLATE=1066 MJD=52589 sdR-b2-00016913.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
5.5×10⁴
5.0×10⁴
4.5×10⁴
4.0×10⁴
3.5×10⁴
RED = sky fiber
Dispersion = 2.36 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
5.5×10⁴
5.0×10⁴
4.5×10⁴
4.0×10⁴
3.5×10⁴
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
5.5×10⁴
5.0×10⁴
4.5×10⁴
4.0×10⁴
3.5×10⁴
1.21
1.22
1.23
1.24
1.25
Airmass

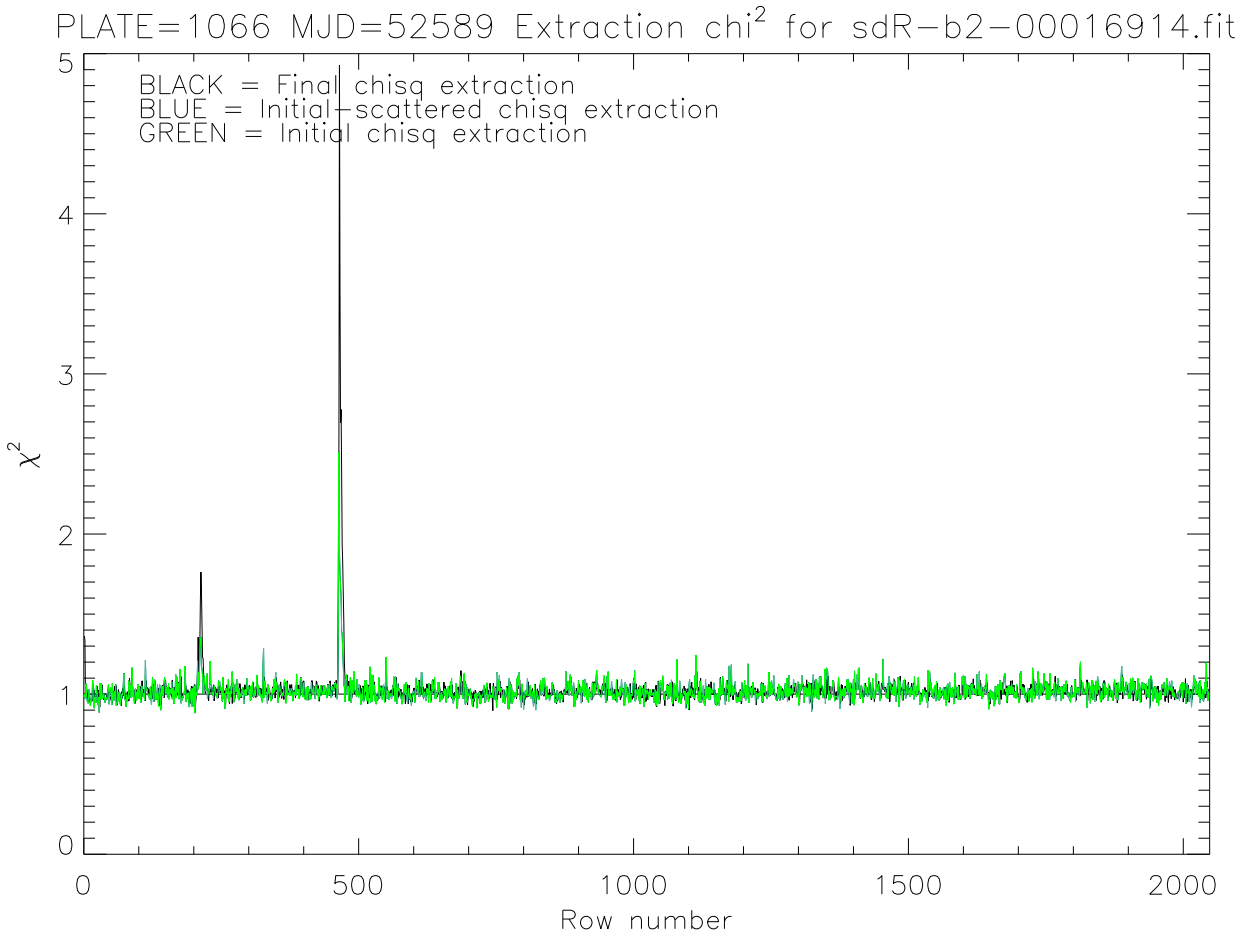

PLATE=1066 MJD=52589 Fiber-Flats for sdR-b2-00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.753
Max value = 1.165
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 14:16:14 2008

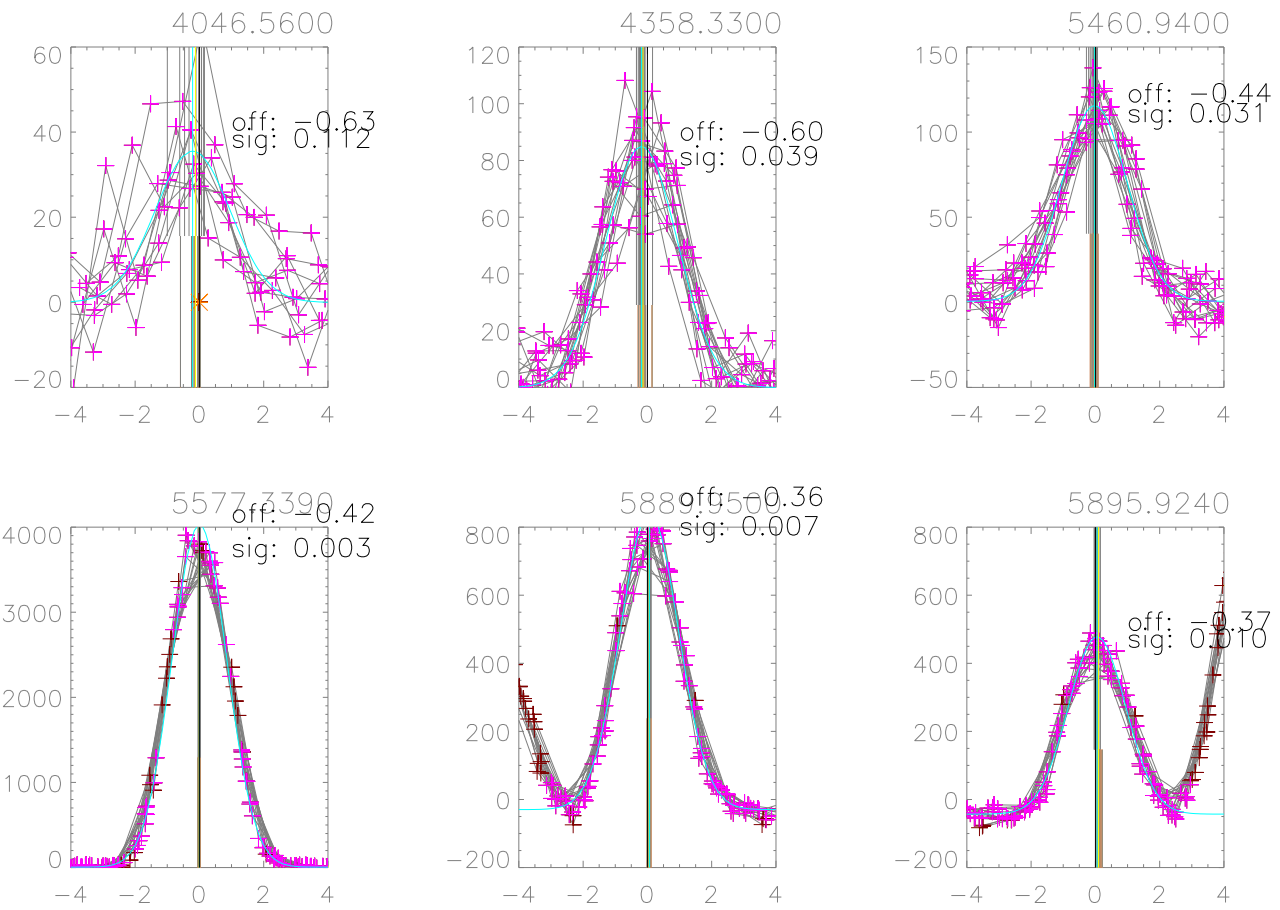

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-b2-00016914.f
3.41
2.86
2.32
2.32
2.32
2.32
2.32
2.86
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

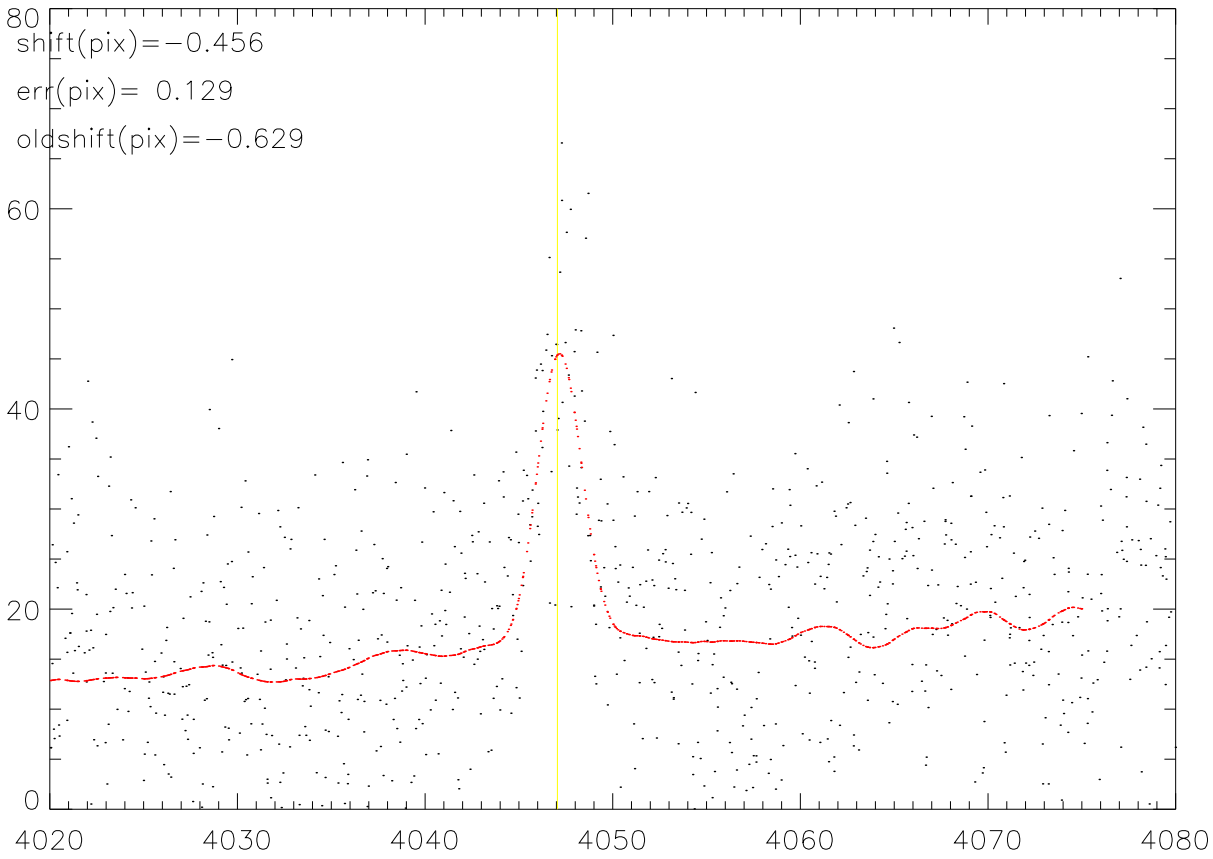

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-b2-00016914.f
Brightness [electrons/pix]
0
1
2
3
4
5
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 2.093
Max value = 3.210
Mon Feb 11 14:16:47 2008

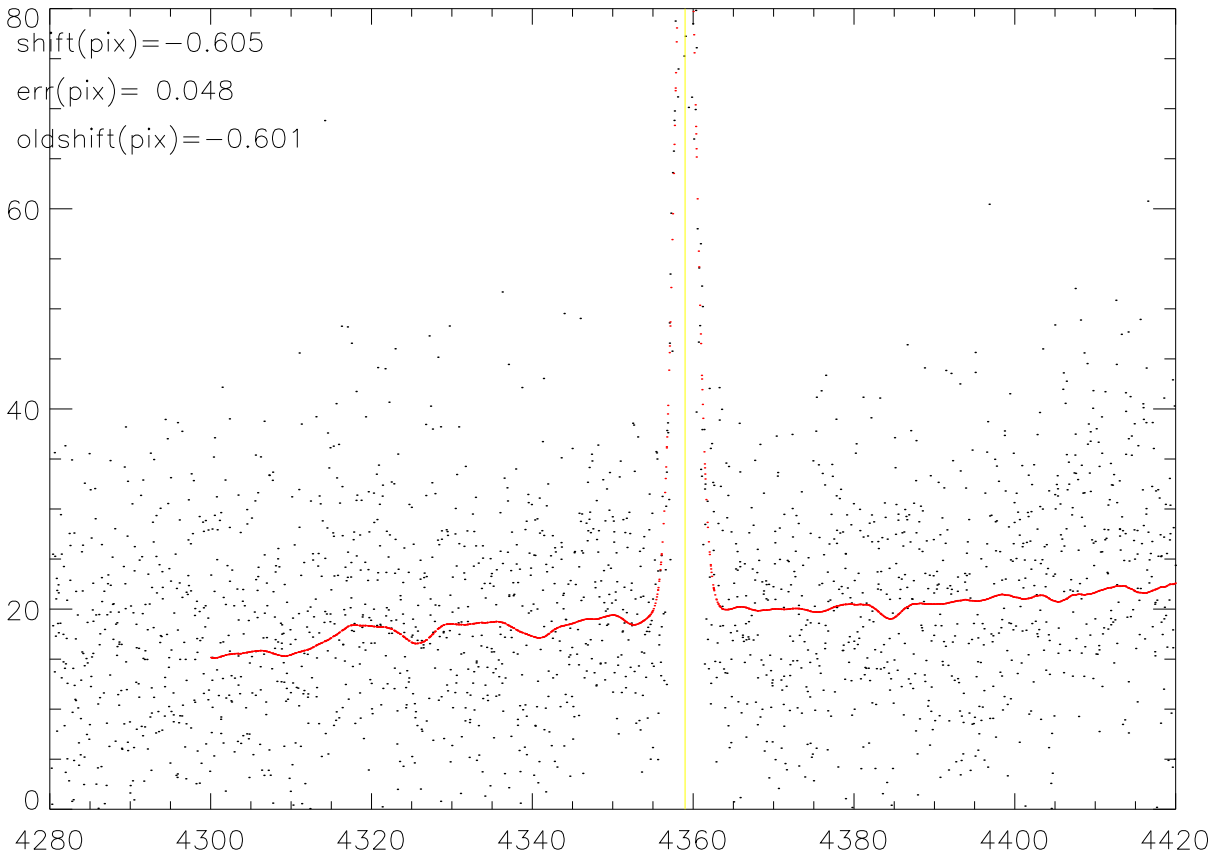

PLATE=1066 MJD=52589 Scattered Light on sdR-b2-00016914.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.86
2.41
1.86
1.86
1.86
2.41

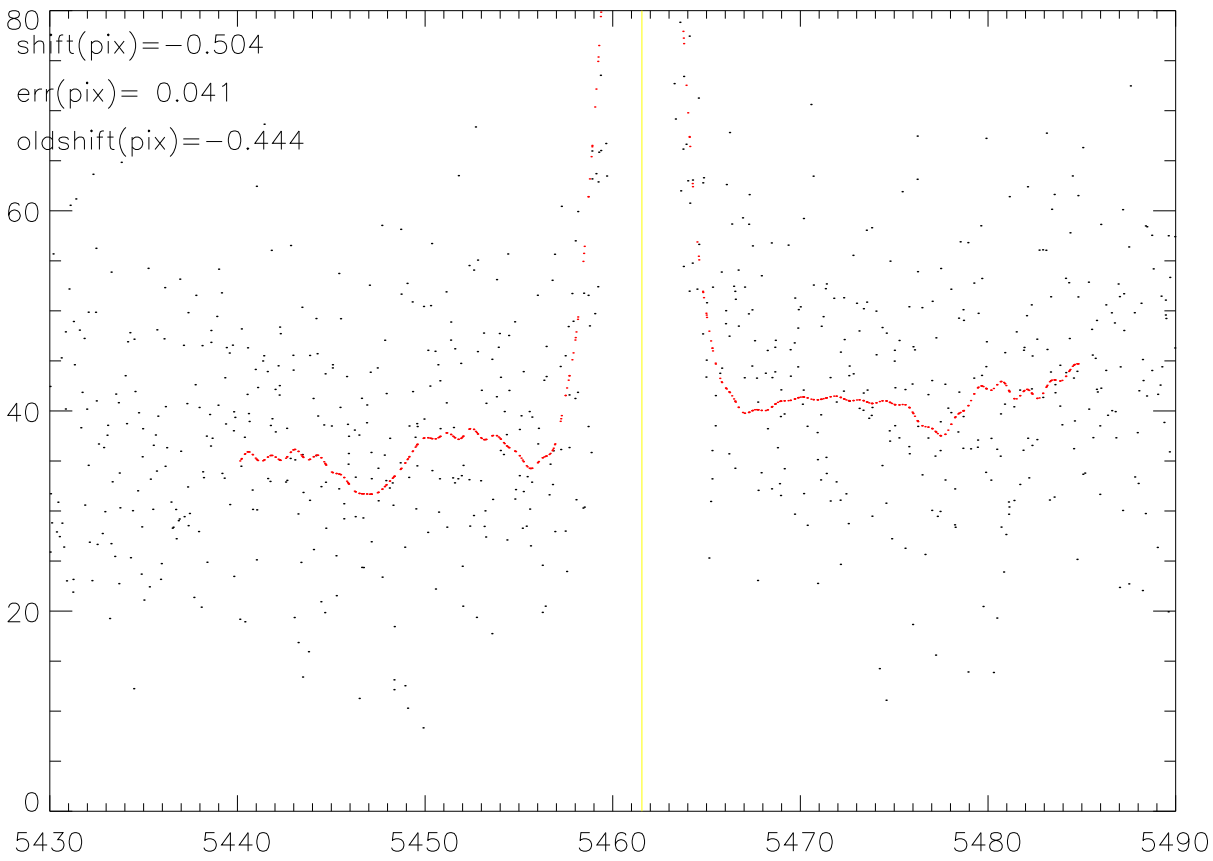

PLATE=1066 MJD=52589 Scattered Light on sdR-b2-00016914.fit
Brightness [electrons/pix]
0
1
2
3
4
Error bars denote full range
Min value = 1.501
Max value = 2.267
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 14:19:00 2008

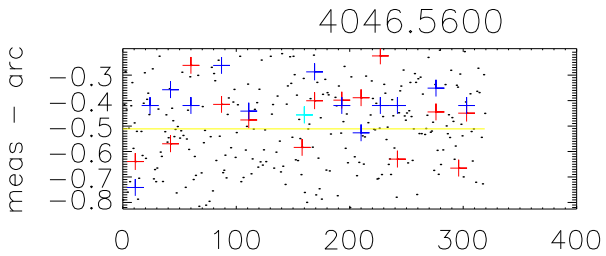

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-b2-00016914.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

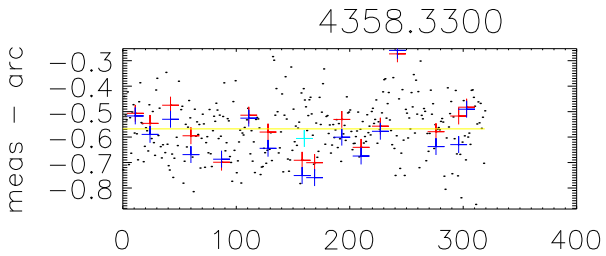

4046.5600
off: −0.63
sig: 0.112
4358.3300
off: −0.60
sig: 0.039
5460.9400
off: −0.44
sig: 0.031
5577.3390
off: −0.42
sig: 0.003
5889.9500
off: −0.36
sig: 0.007
5895.9240
off: −0.37
sig: 0.010

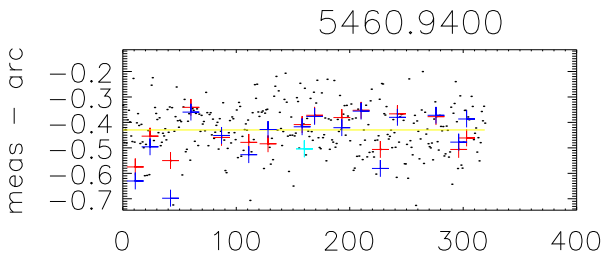

shift(pix)=−0.456
err(pix)= 0.129
oldshift(pix)=−0.629
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

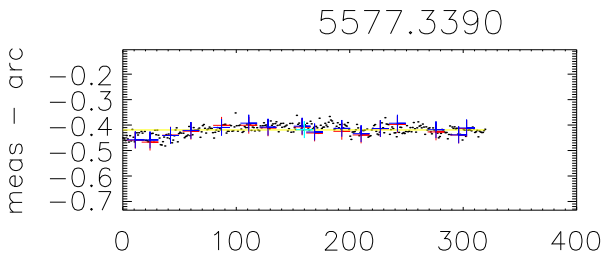

shift(pix)=−0.605
err(pix)= 0.048
oldshift(pix)=−0.601
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

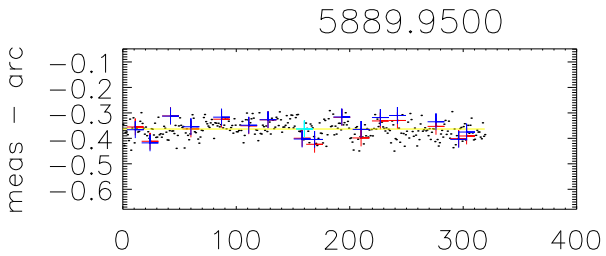

shift(pix)=−0.504
err(pix)= 0.041
oldshift(pix)=−0.444
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

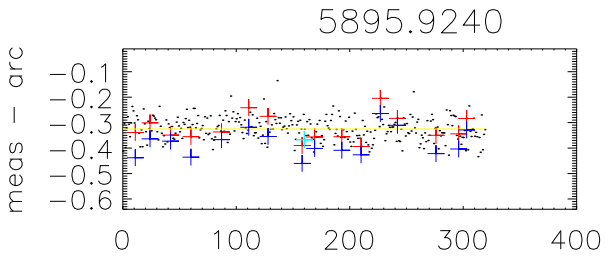

4046.5600
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

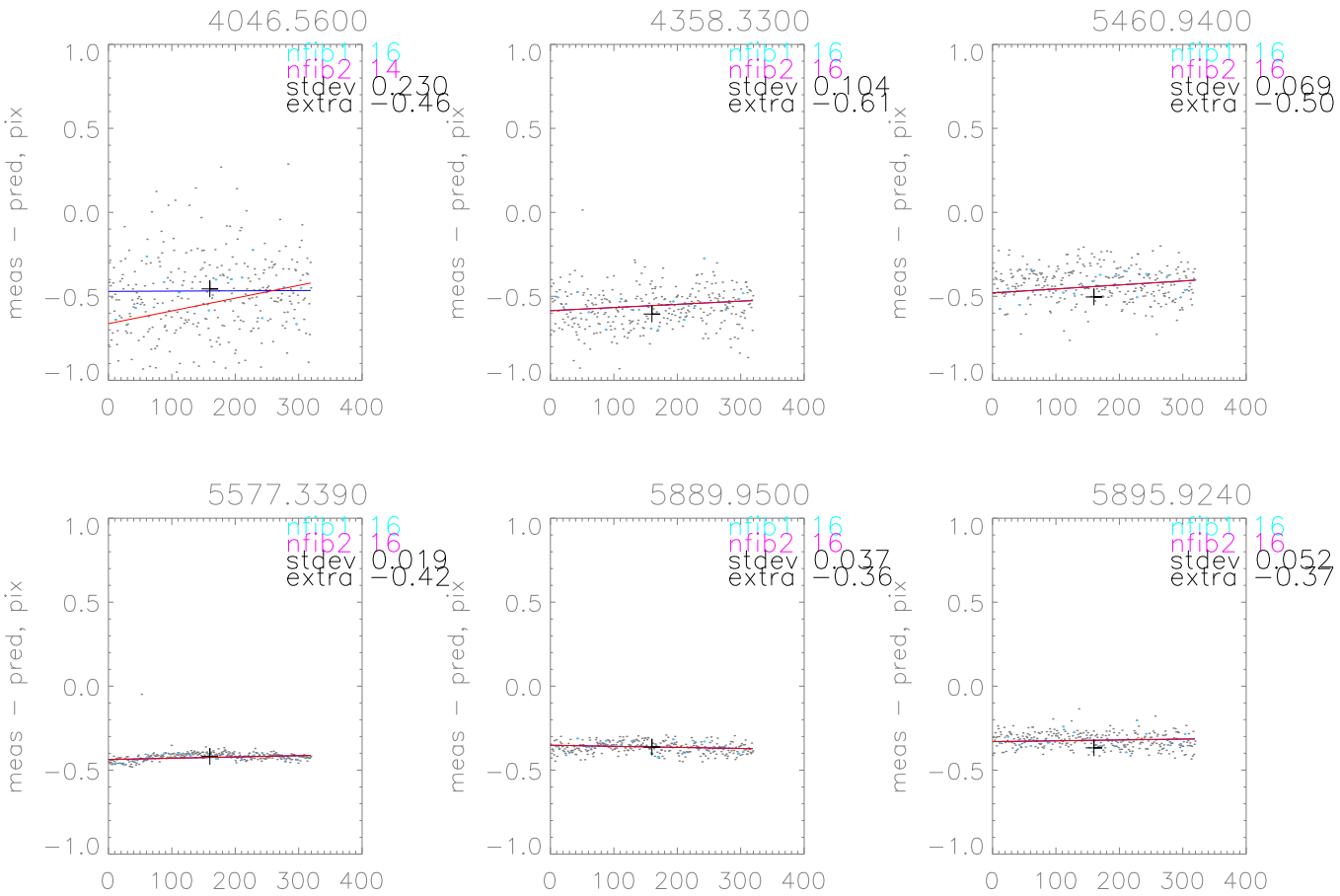

4358.3300
meas − arc
−0.3
−0.4
−0.5
−0.6
−0.7
−0.8
0
100
200
300
400

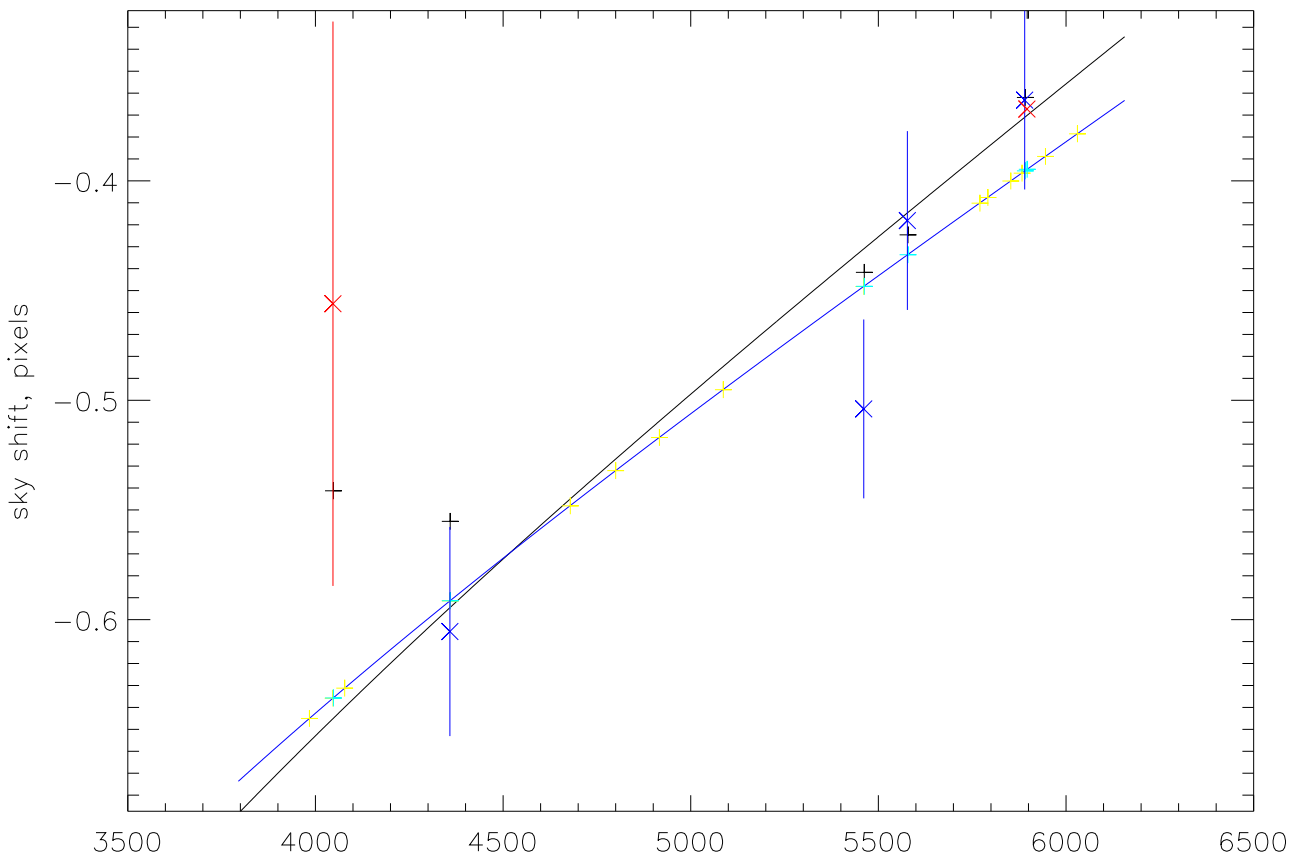

5460.9400
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

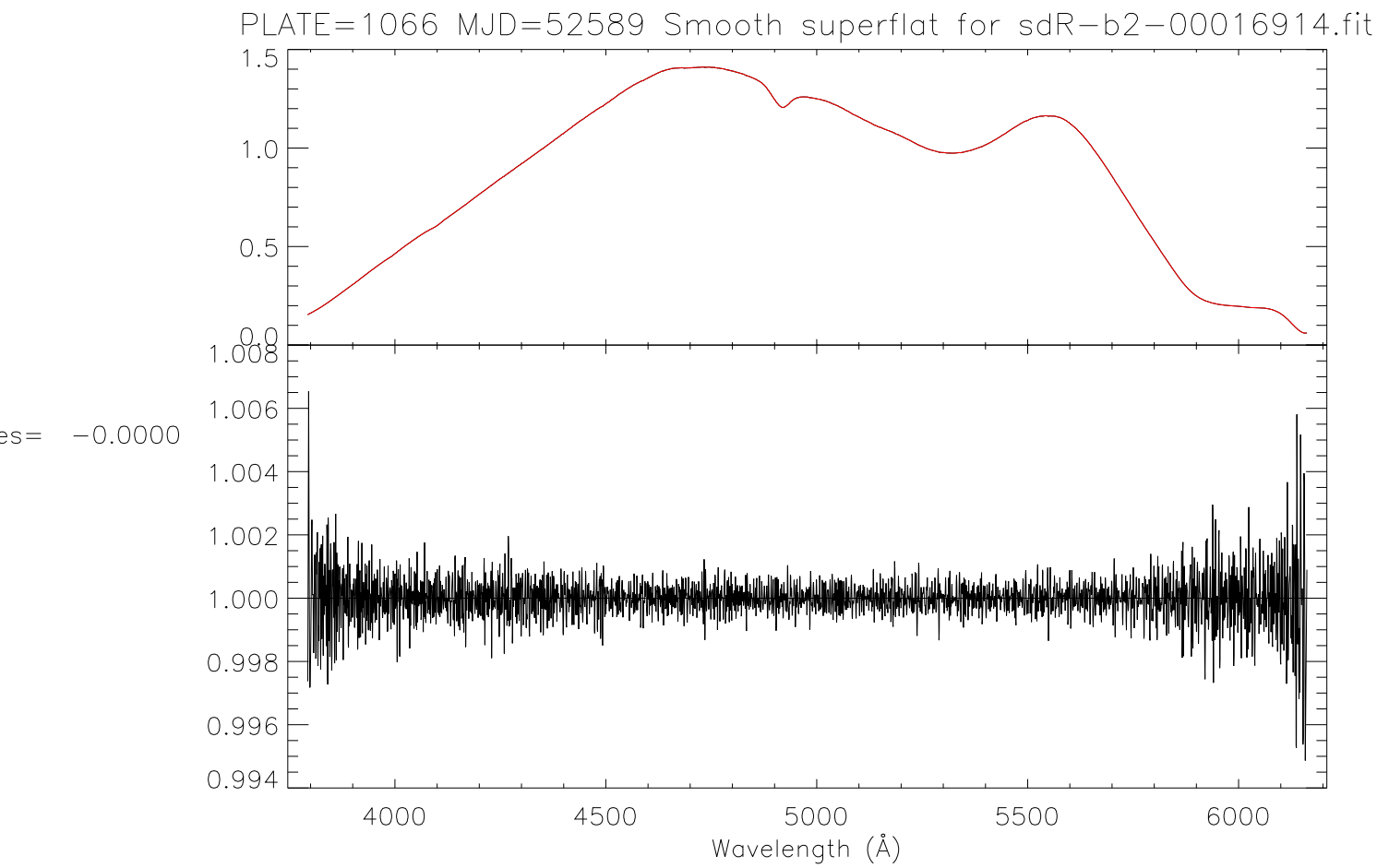

5577.3390
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400


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

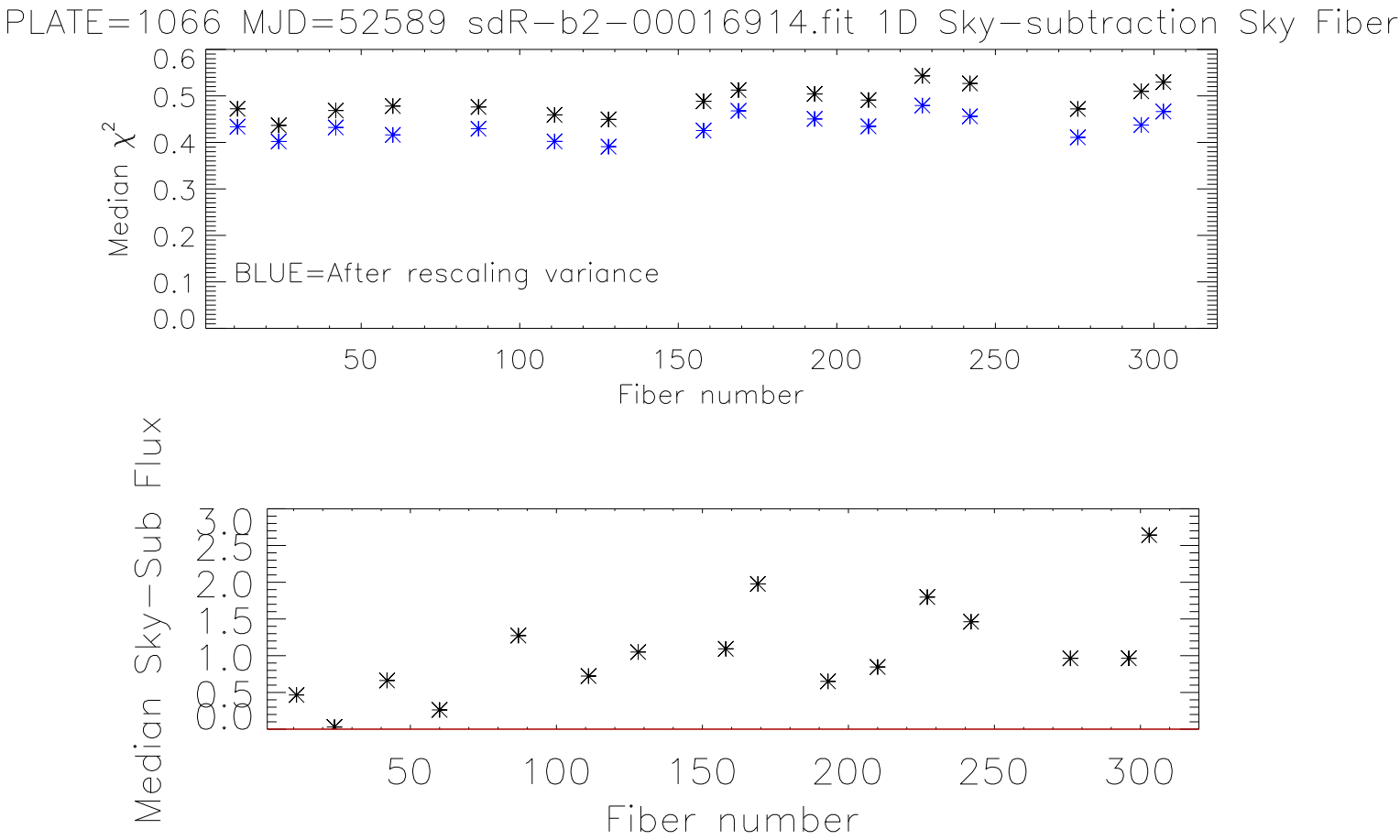

5895.9240
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

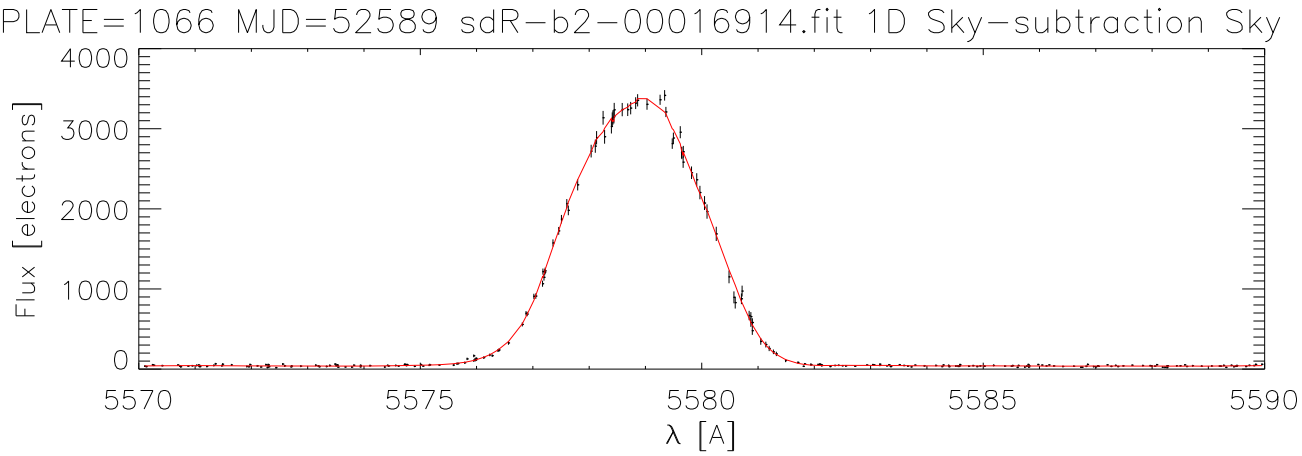

4046.5600
nfib1 16
nfib2 14
stdev 0.230
extra −0.46
4358.3300
nfib1 16
nfib2 16
stdev 0.104
extra −0.61
5460.9400
nfib1 16
nfib2 16
stdev 0.069
extra −0.50
5577.3390
nfib1 16
nfib2 16
stdev 0.019
extra −0.42
5889.9500
nfib1 16
nfib2 16
stdev 0.037
extra −0.36
5895.9240
nfib1 16
nfib2 16
stdev 0.052
extra −0.37
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

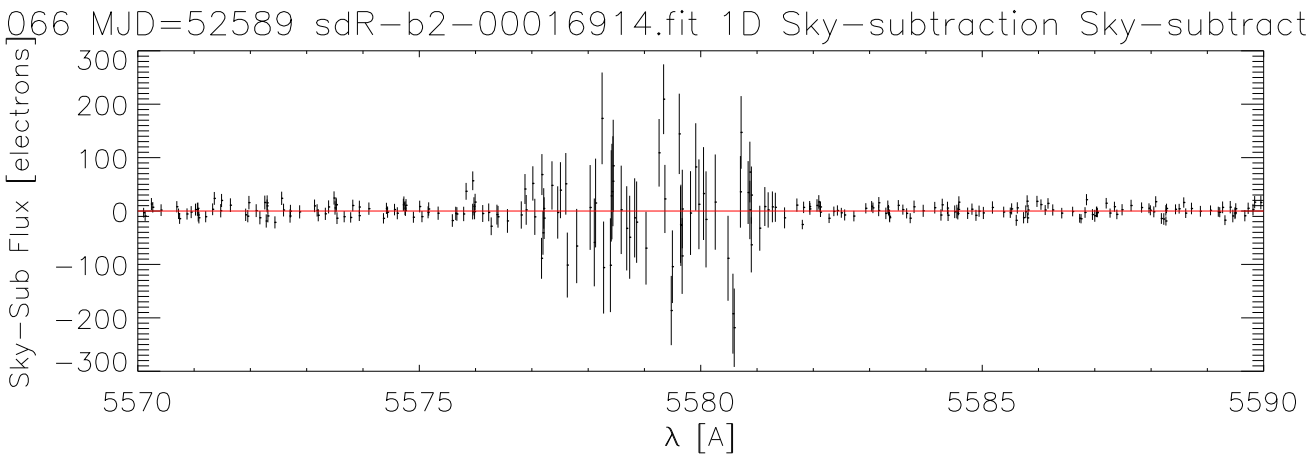

sky shift, pixels
−0.4
−0.5
−0.6
3500
4000
4500
5000
5500
6000
6500

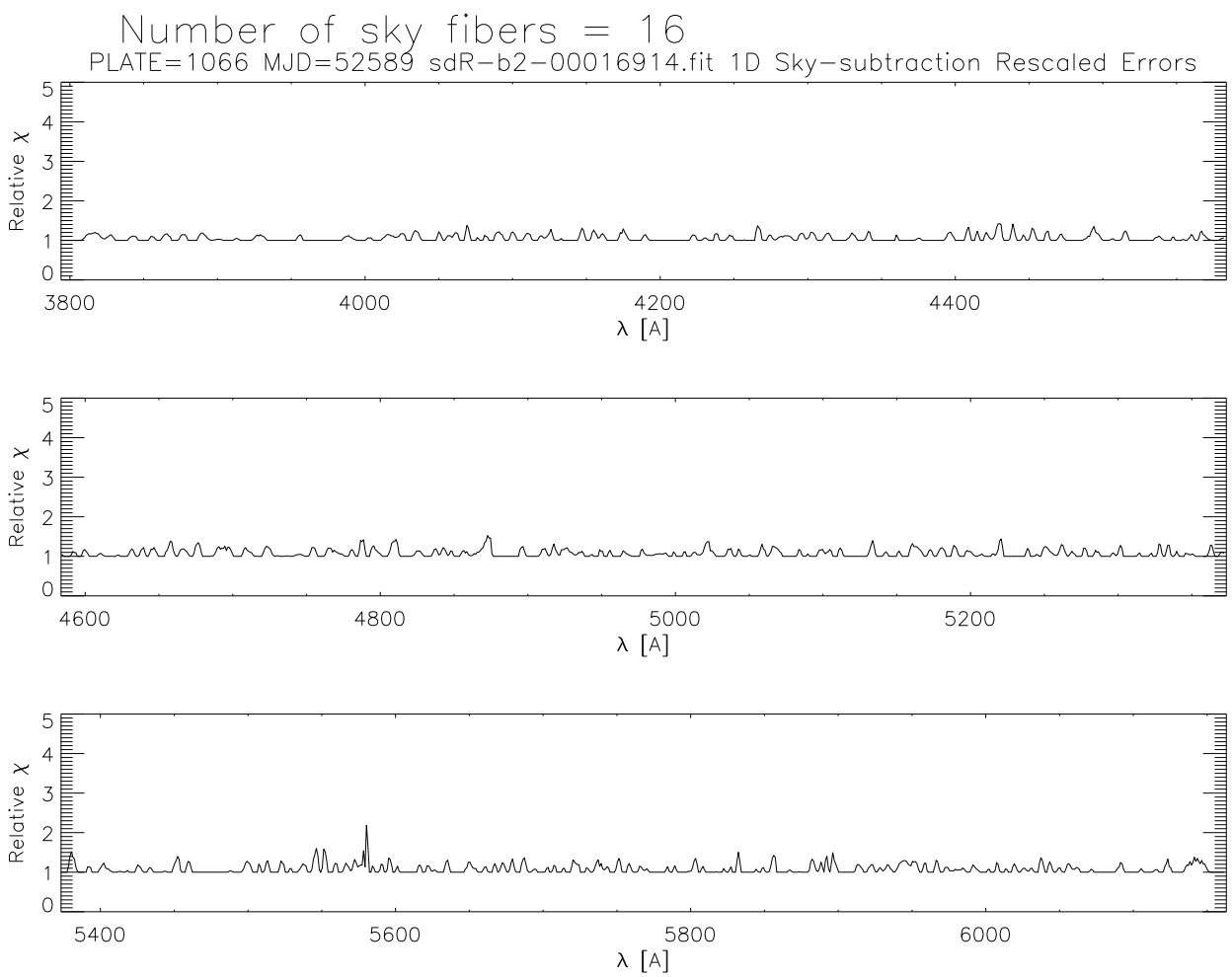

PLATE=1066 MJD=52589 Smooth superflat for sdR-b2-00016914.fit
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

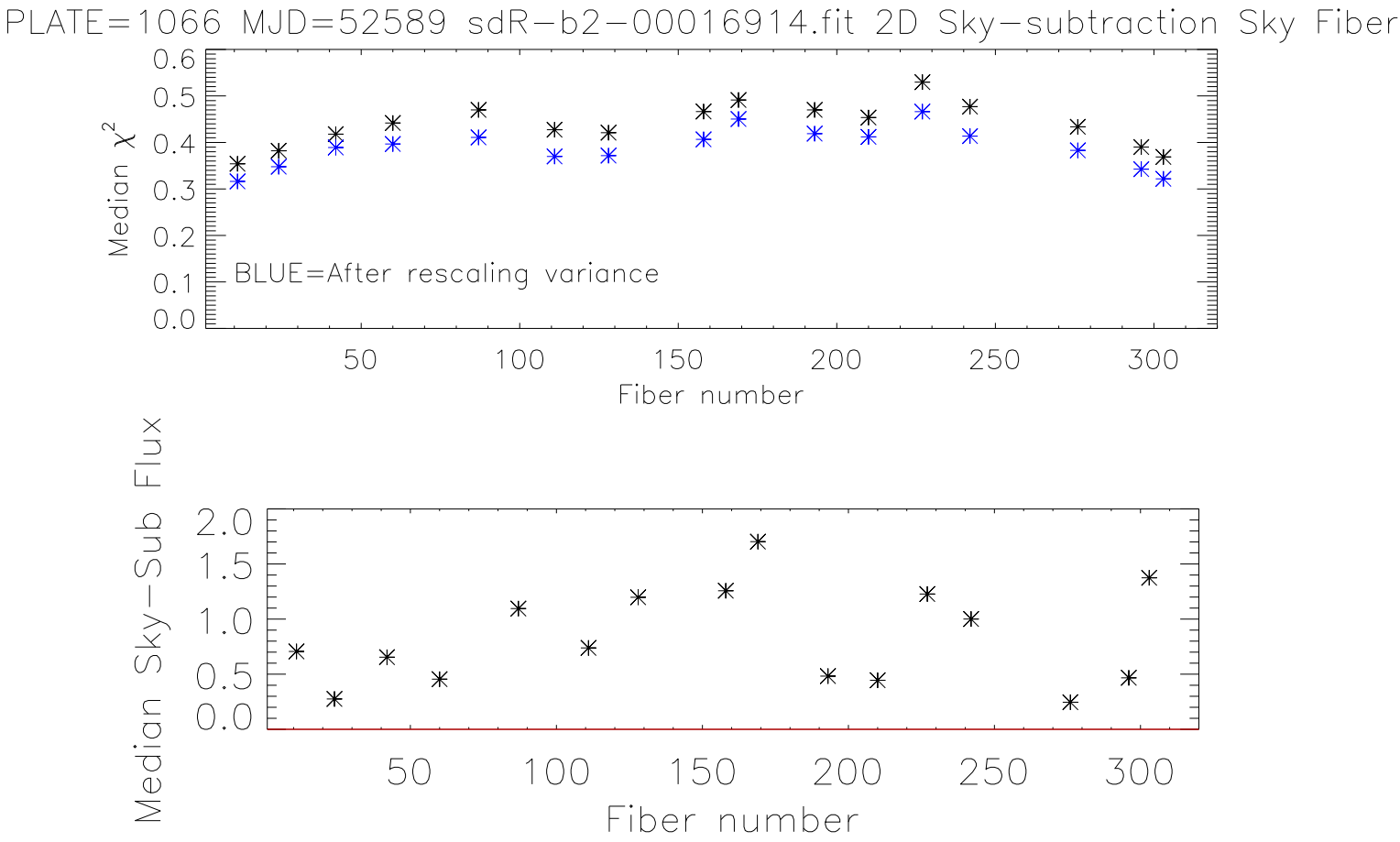
es= −0.0000

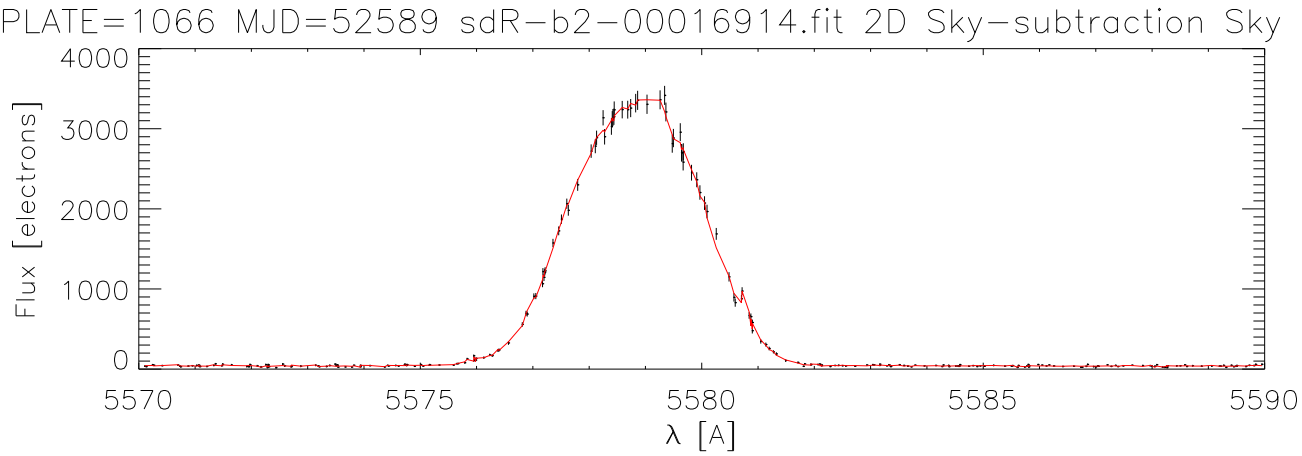

PLATE=1066 MJD=52589 sdR-b2-00016914.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

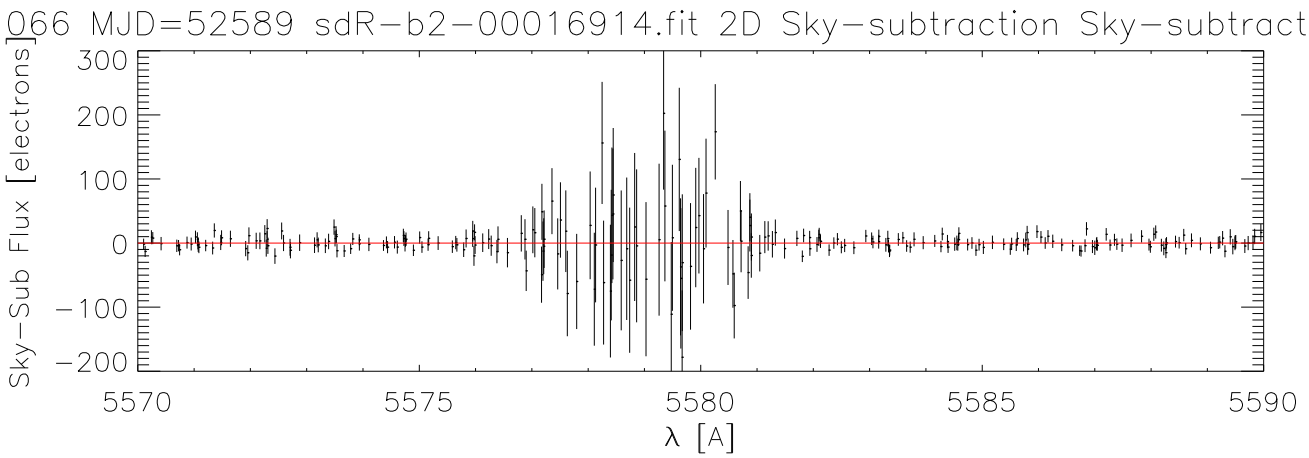

PLATE=1066 MJD=52589 sdR-b2-00016914.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

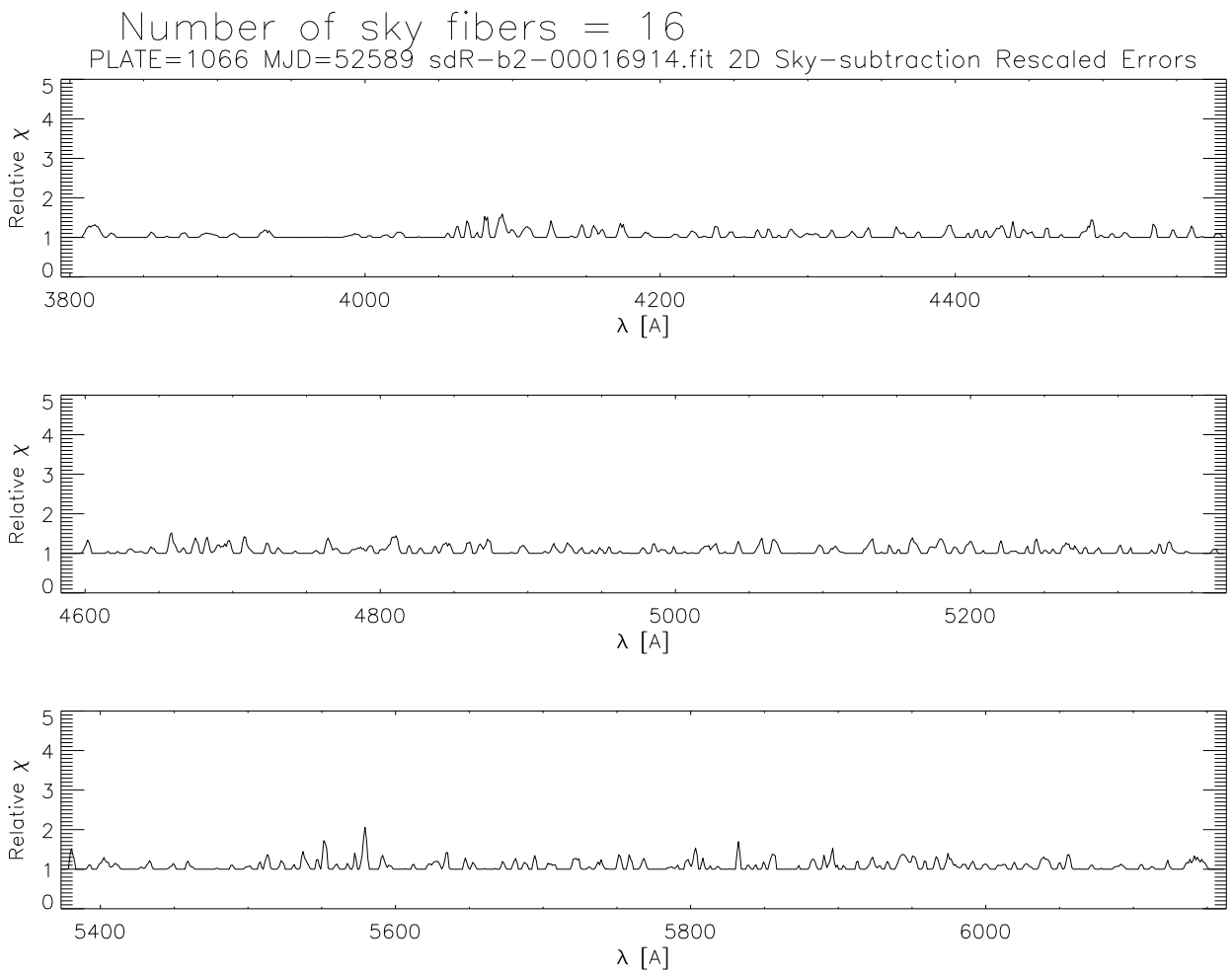

PLATE=1066 MJD=52589 sdR-b2-00016914.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

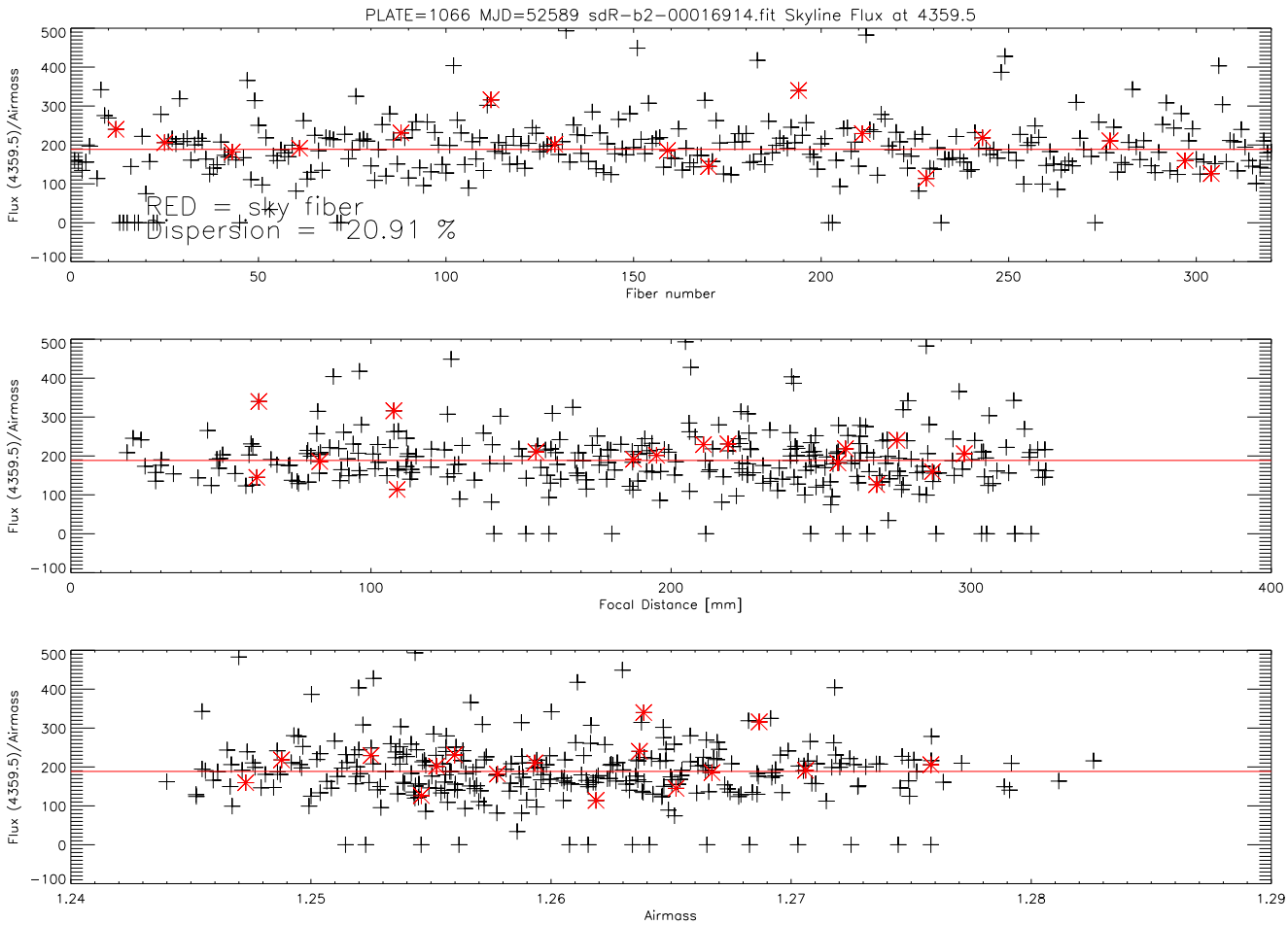

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b2-00016914.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

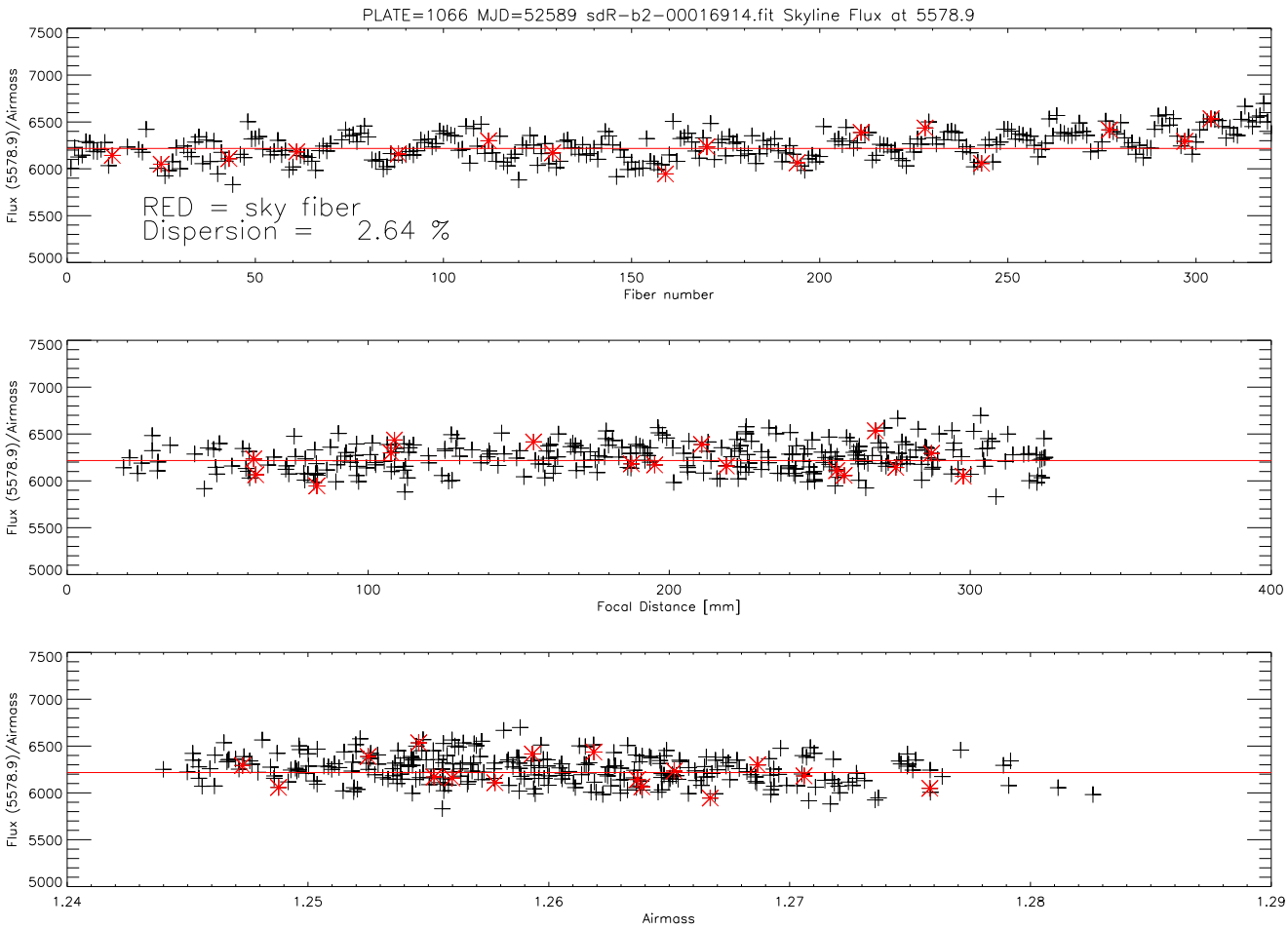

PLATE=1066 MJD=52589 sdR-b2-00016914.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

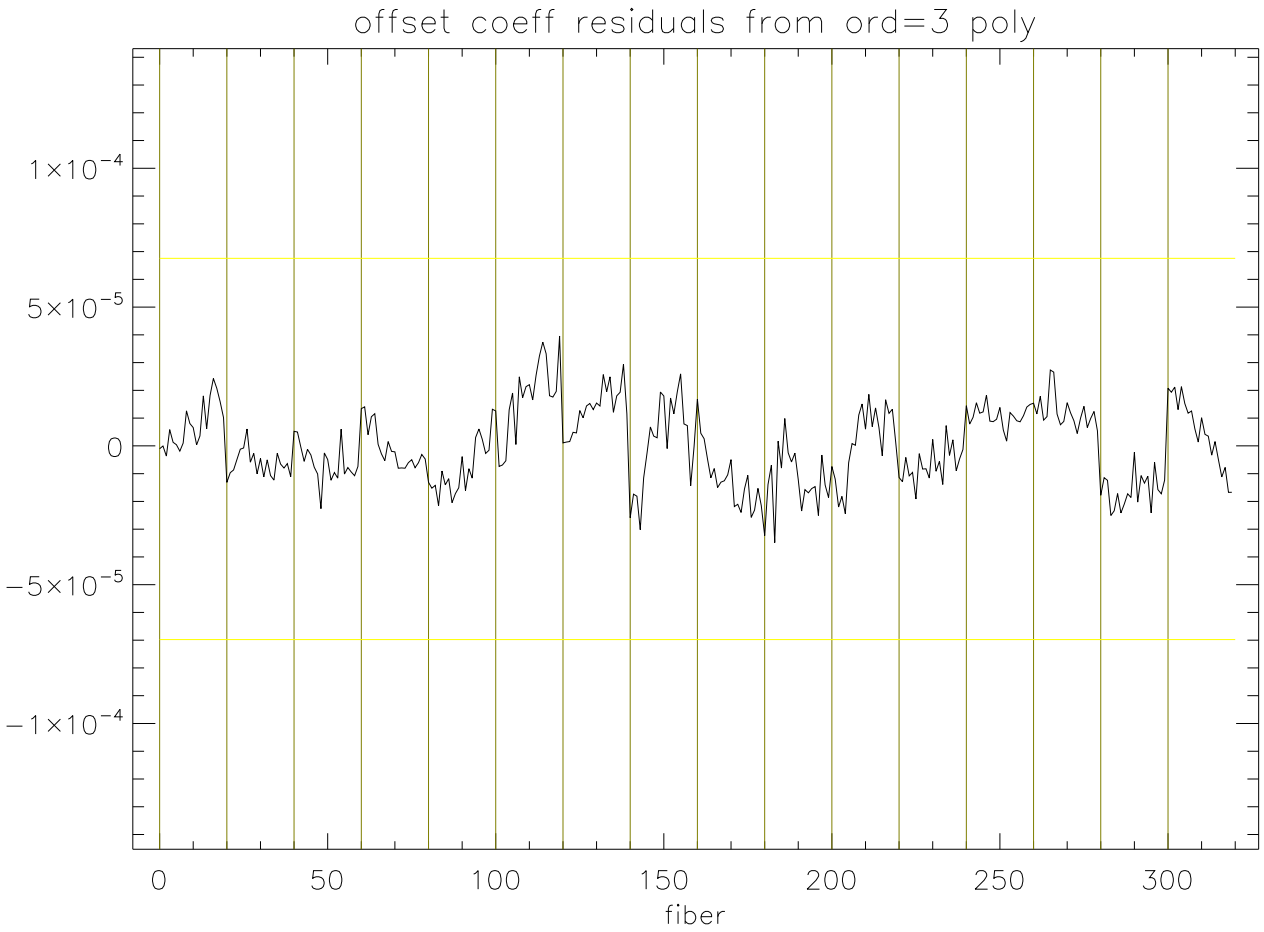

PLATE=1066 MJD=52589 sdR-b2-00016914.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

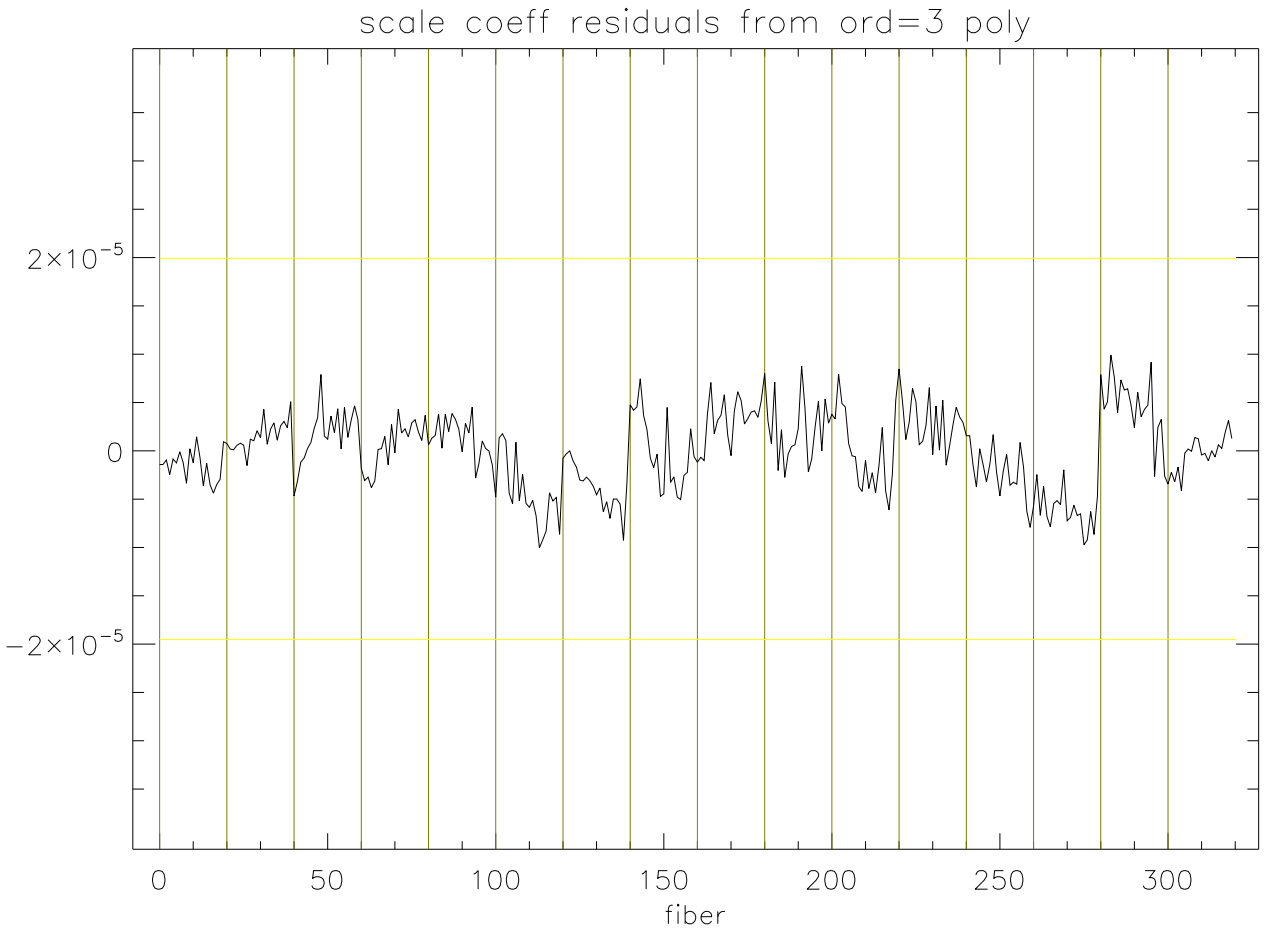

PLATE=1066 MJD=52589 sdR-b2-00016914.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

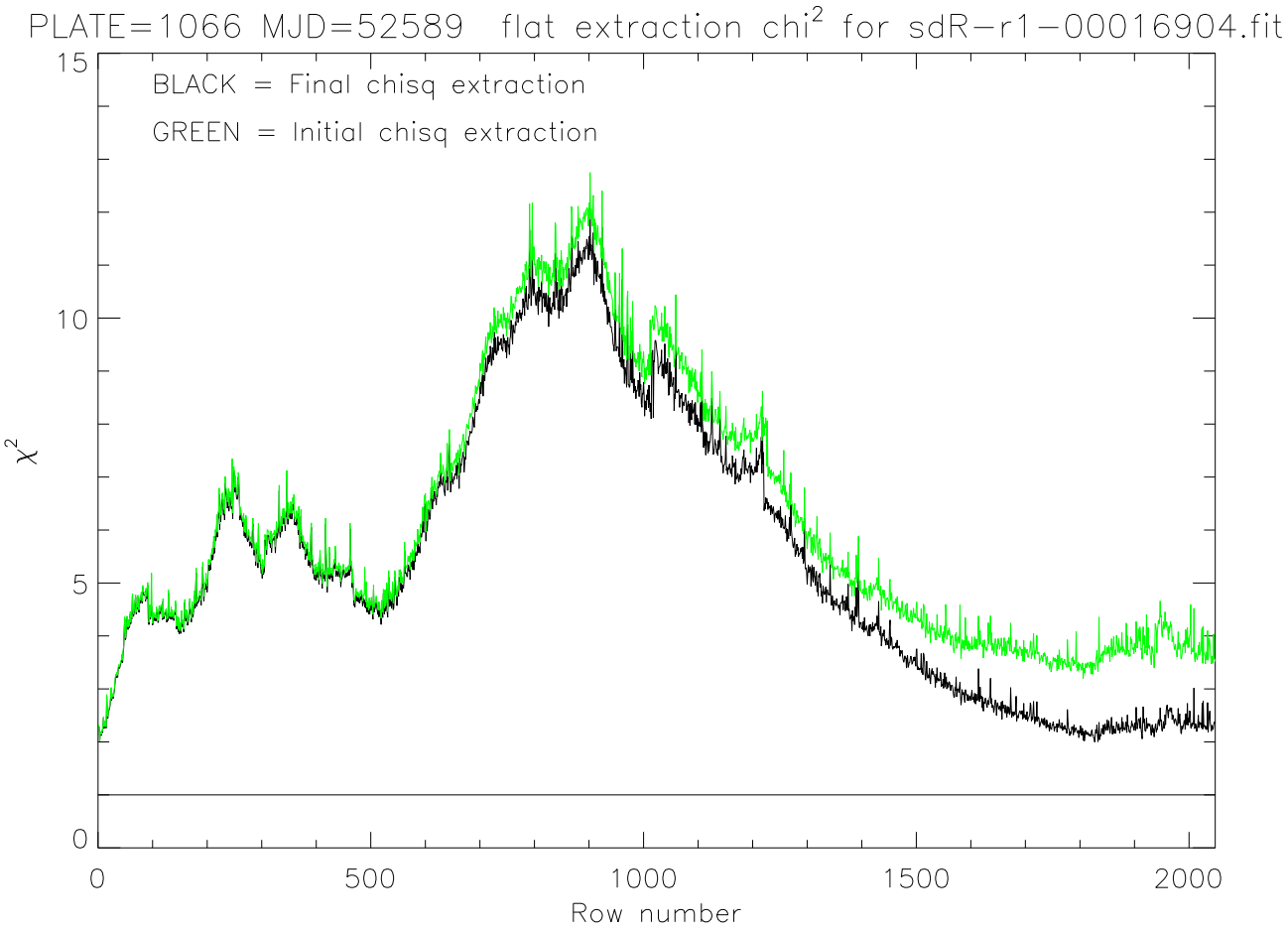

Number of sky fibers = 16
PLATE=1066 MJD=52589 sdR-b2-00016914.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

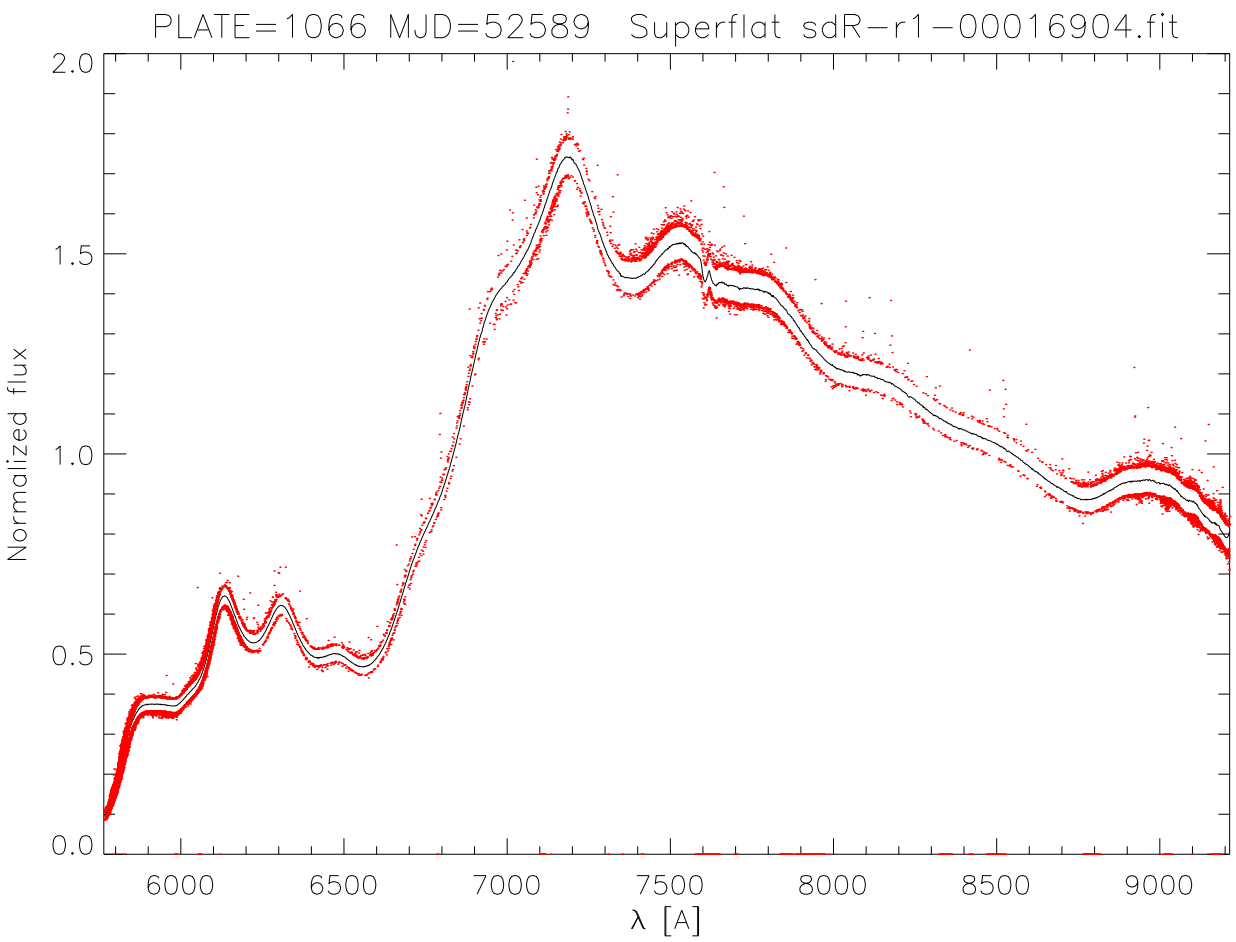

PLATE=1066 MJD=52589 sdR-b2-00016914.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 20.91 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

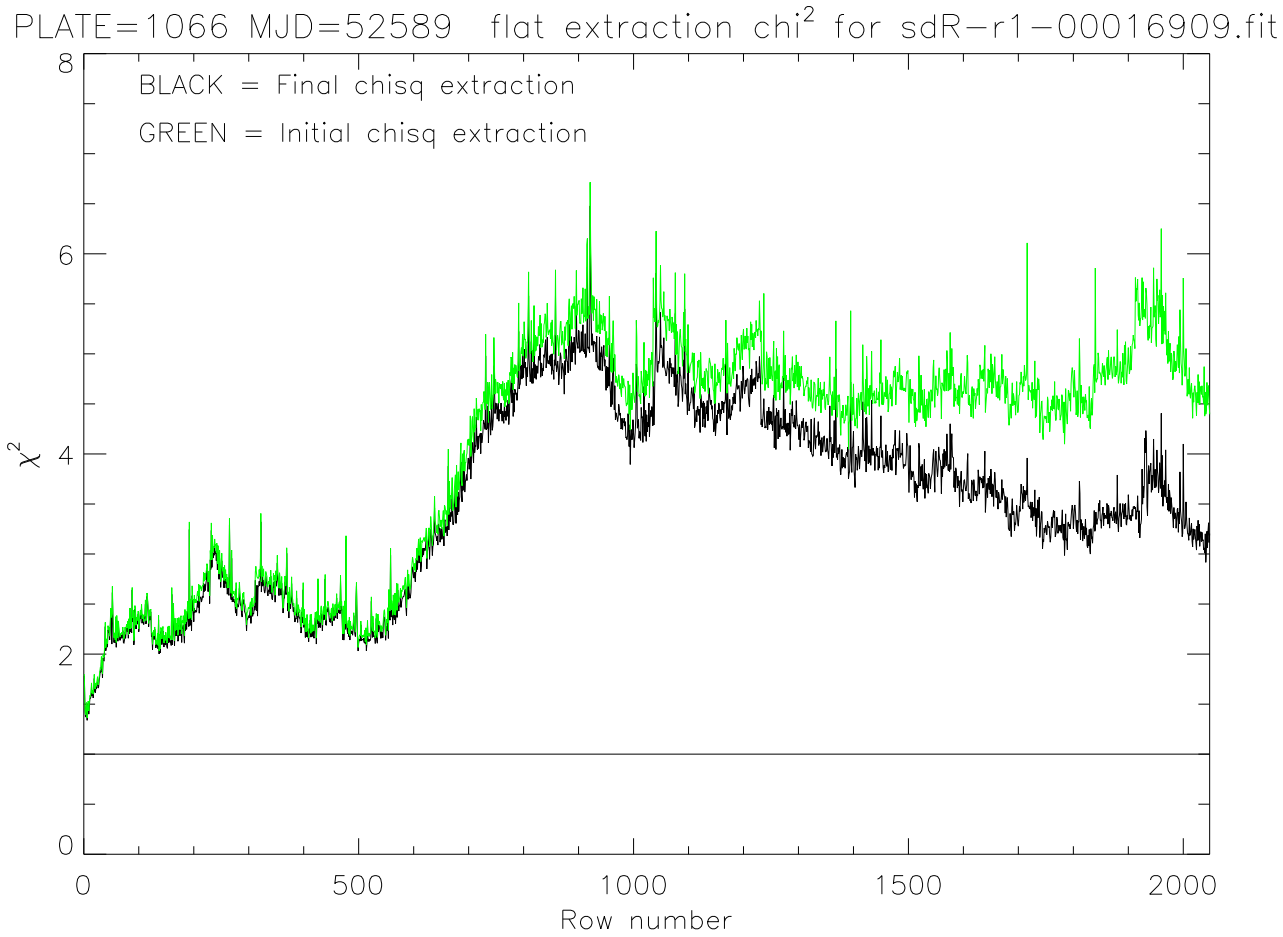

PLATE=1066 MJD=52589 sdR-b2-00016914.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.64 %
Fiber number
Focal Distance [mm]
Airmass

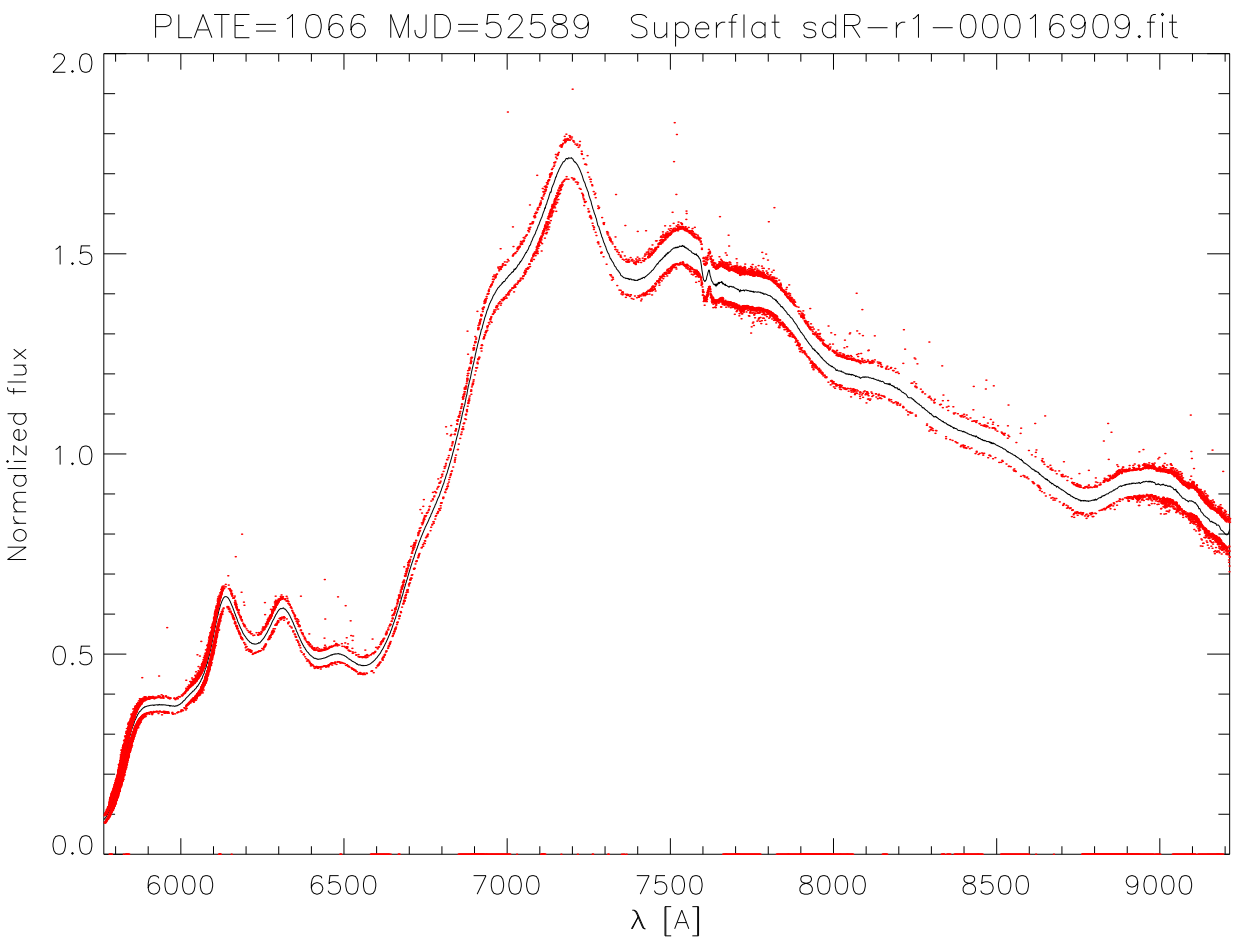

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

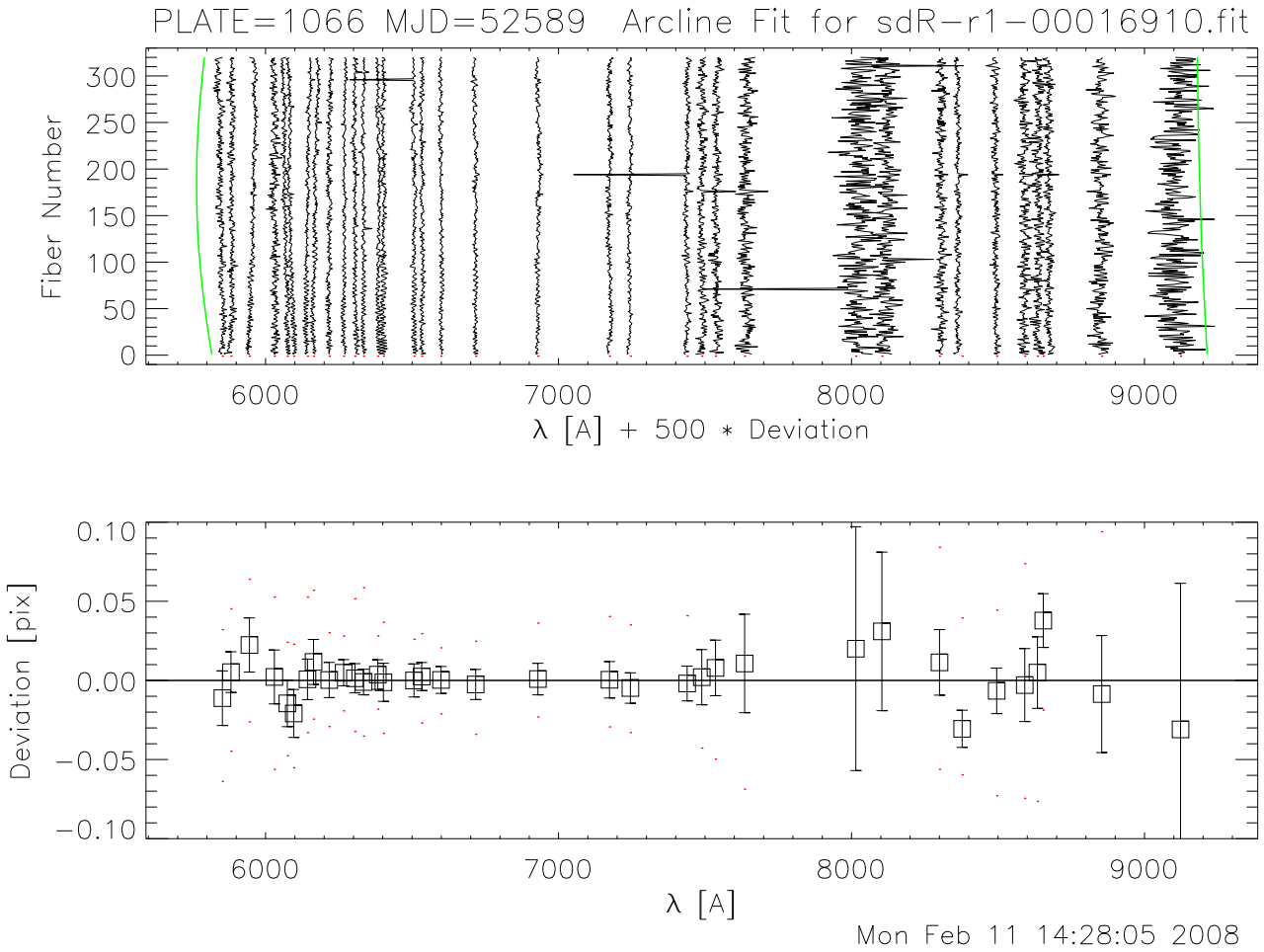

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

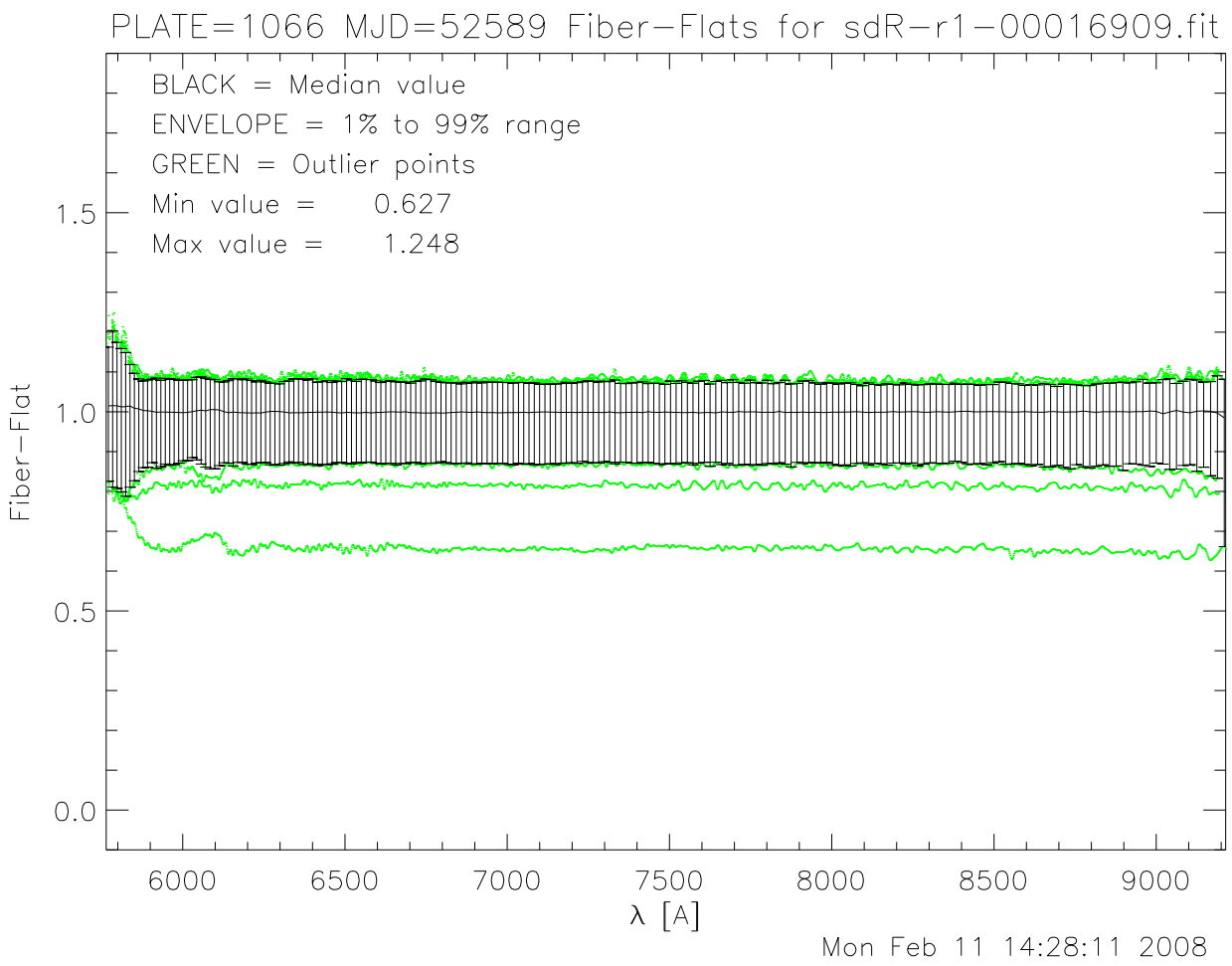

PLATE=1066 MJD=52589 flat extraction chi^2 for sdR−r1−00016904.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
15
10
5
0
0
500
1000
1500
2000
Row number

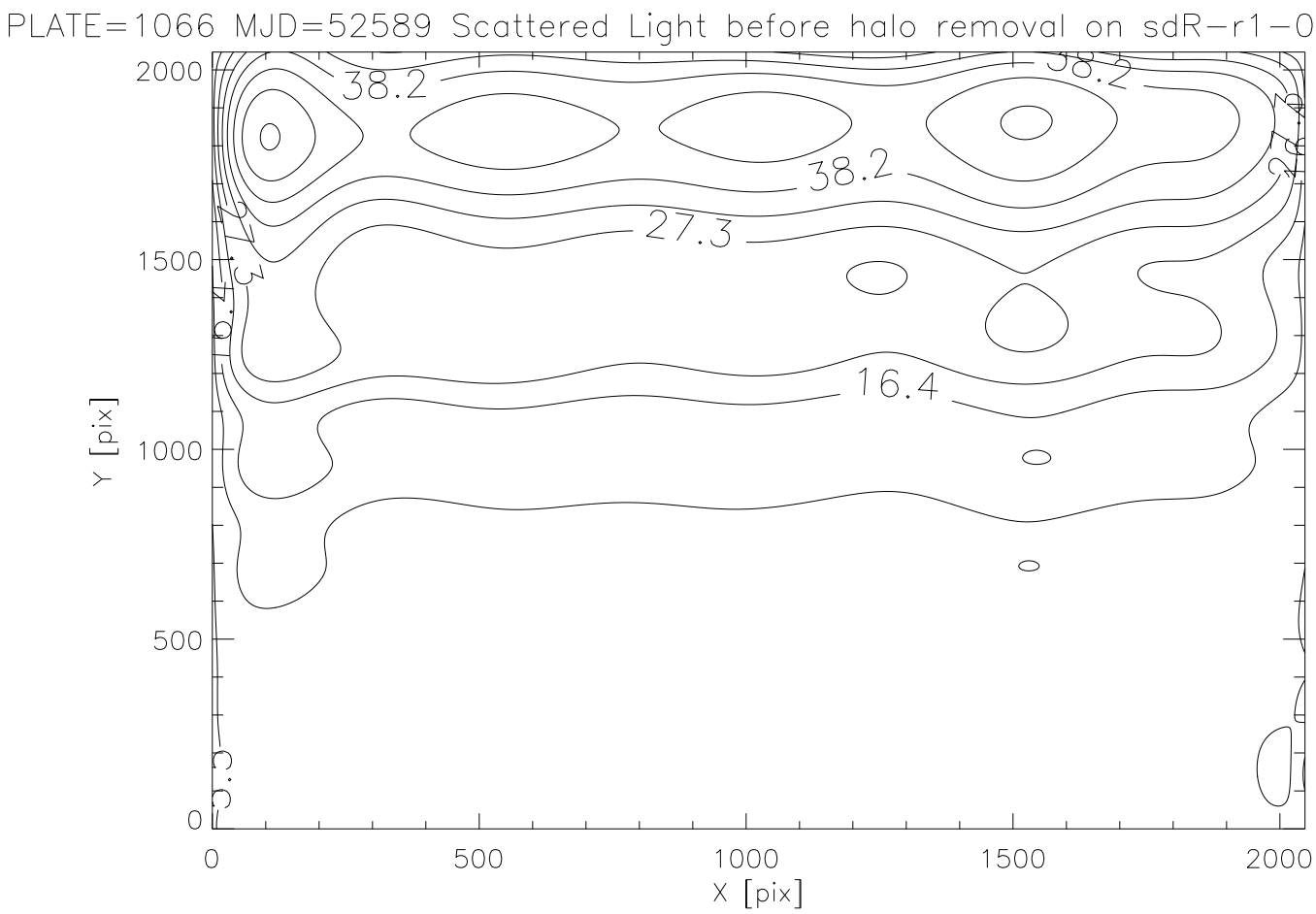

PLATE=1066 MJD=52589 Superflat sdR-r1-00016904.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

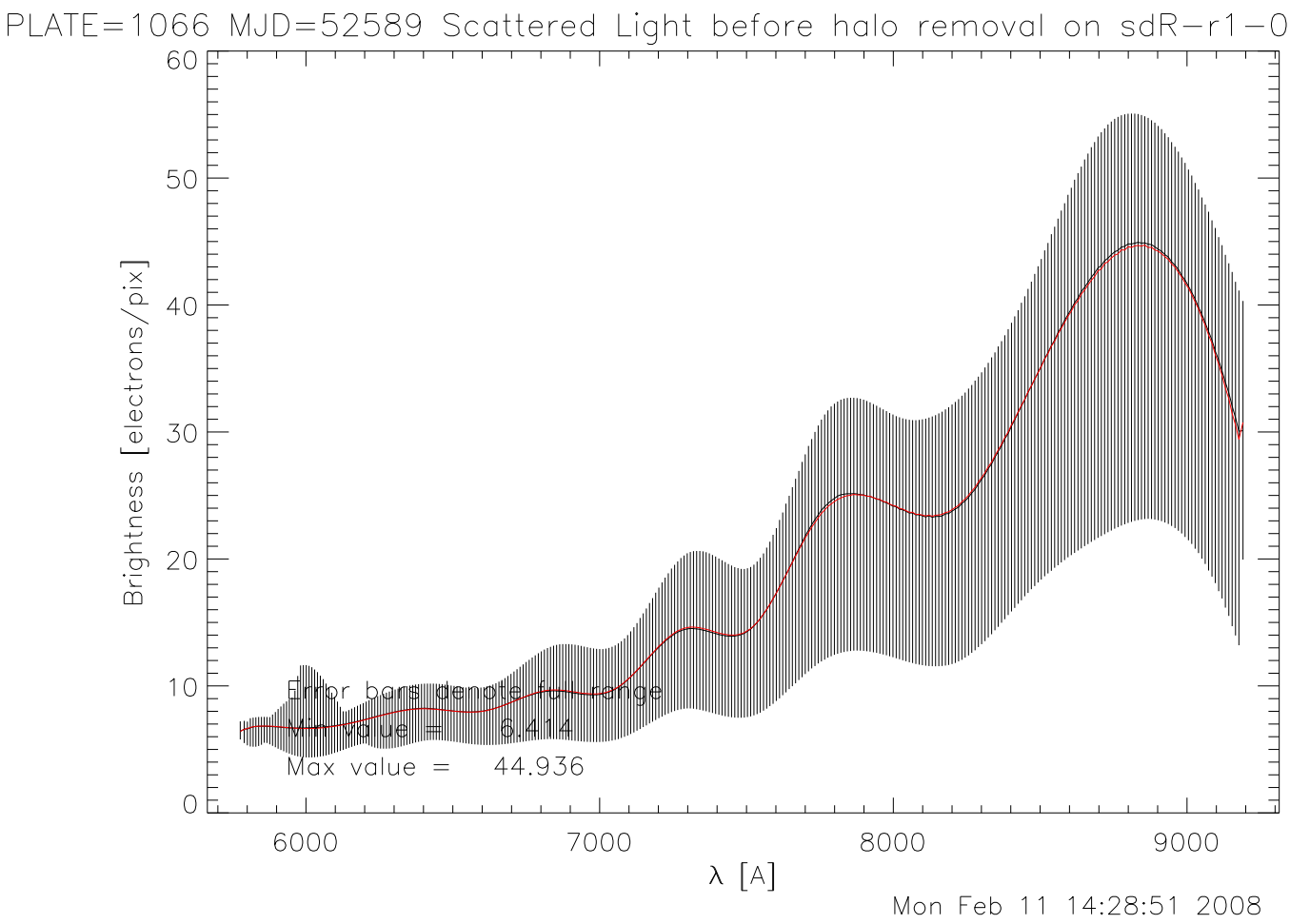

PLATE=1066 MJD=52589 flat extraction chi^2 for sdR−r1−00016909.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

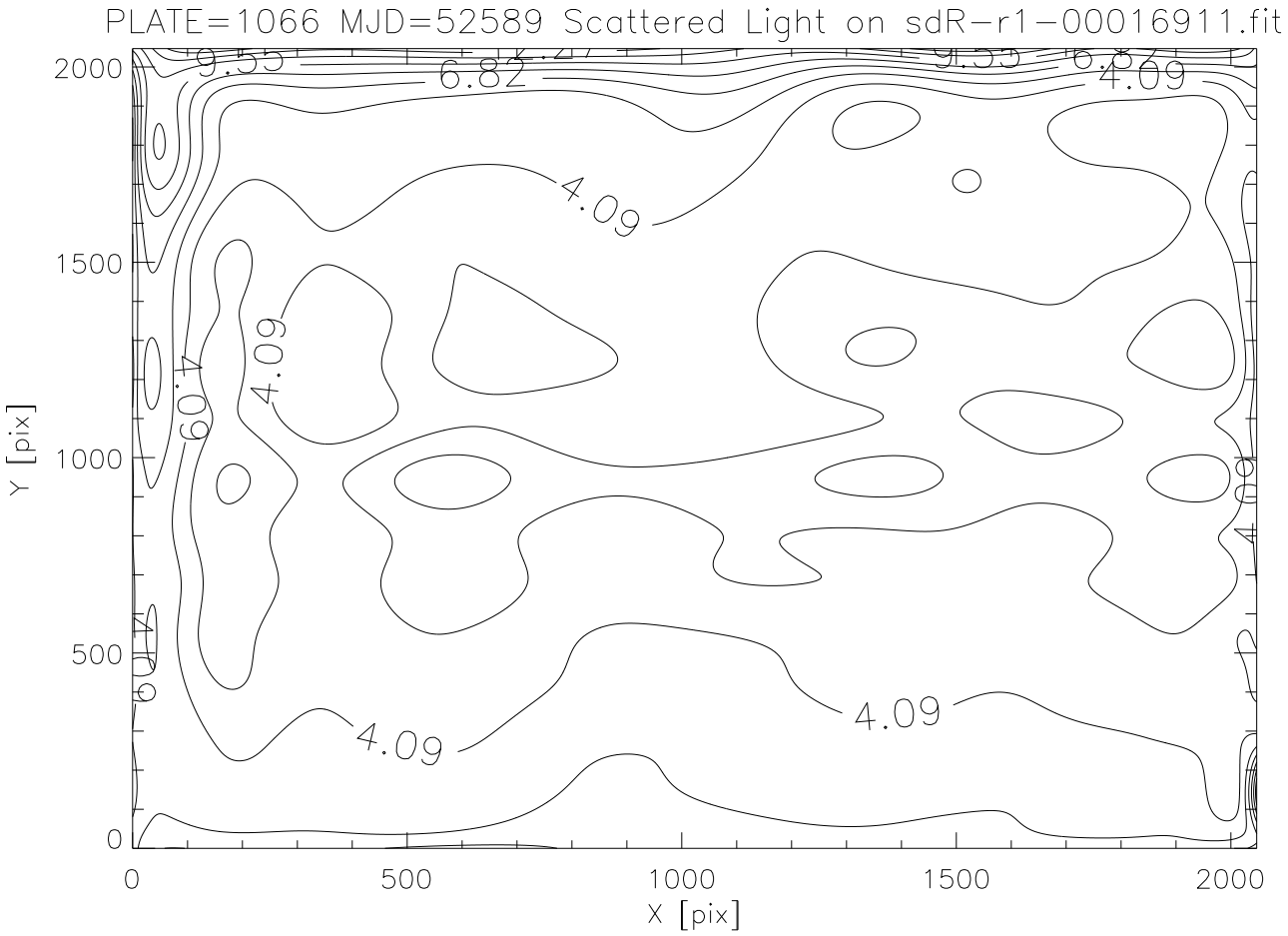

PLATE=1066 MJD=52589 Superflat sdR-r1-00016909.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

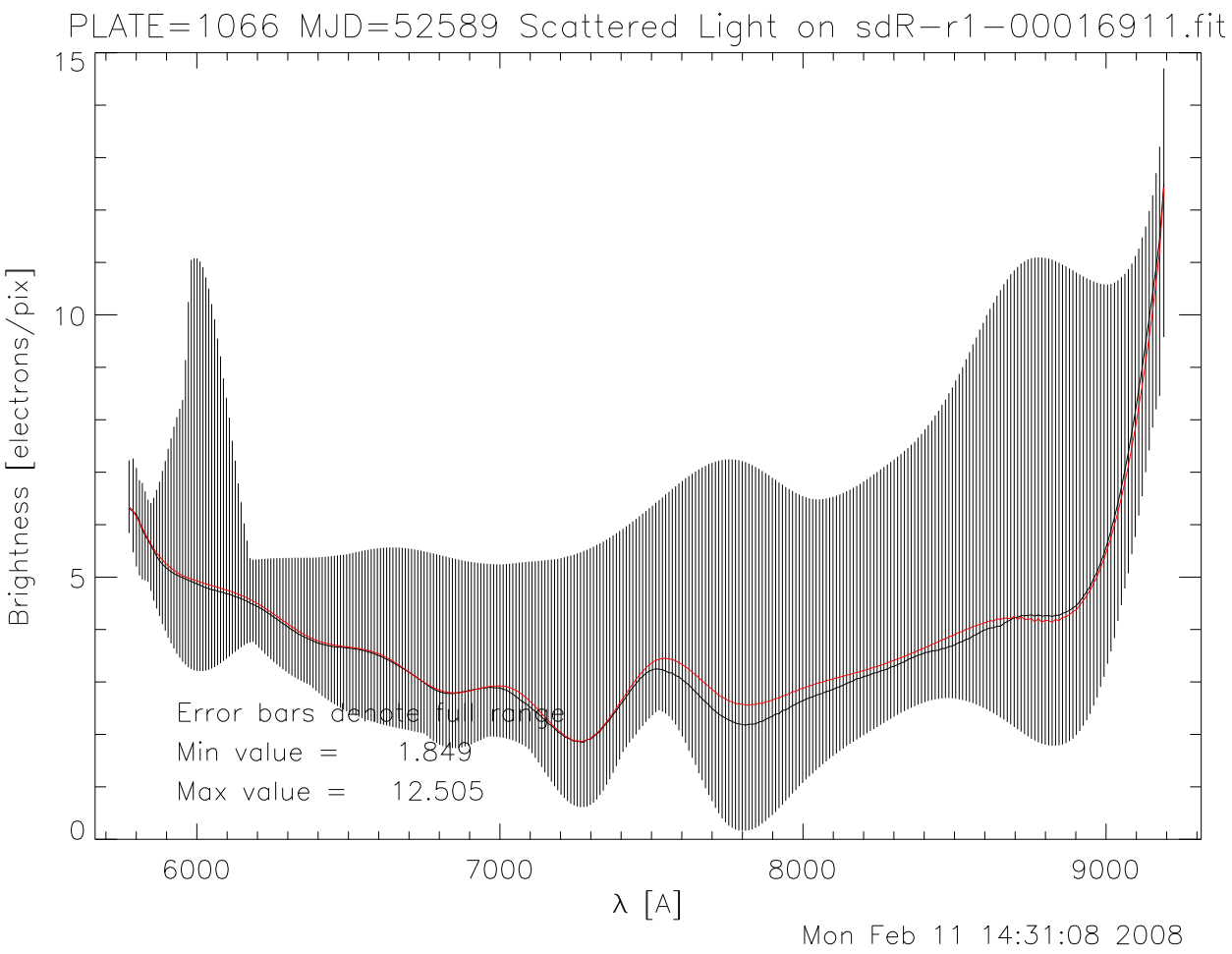

PLATE=1066 MJD=52589 Arcline Fit for sdR-r1-00016910.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 11 14:28:05 2008

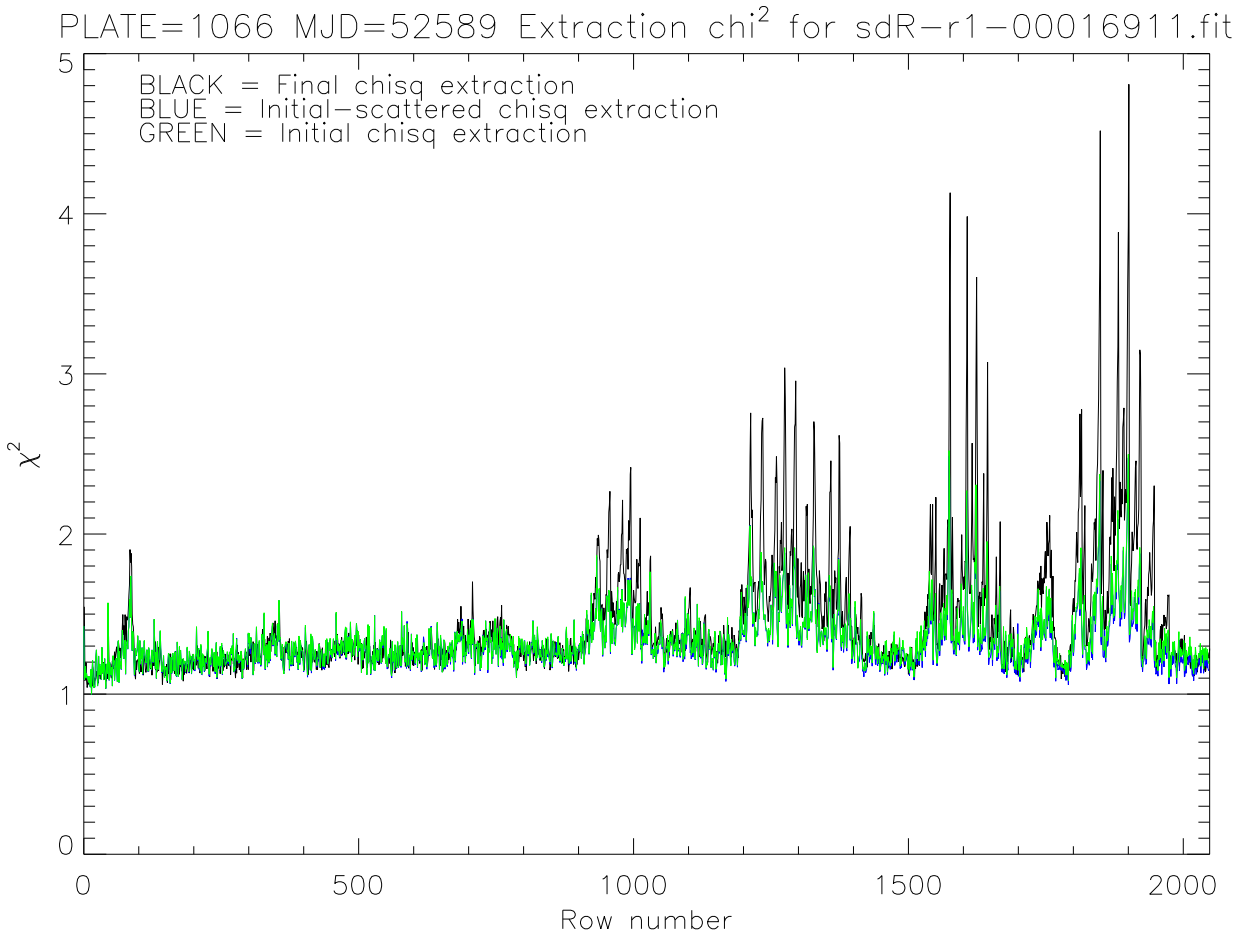

PLATE=1066 MJD=52589 Fiber−Flats for sdR−r1−00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.627
Max value = 1.248
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 14:28:11 2008

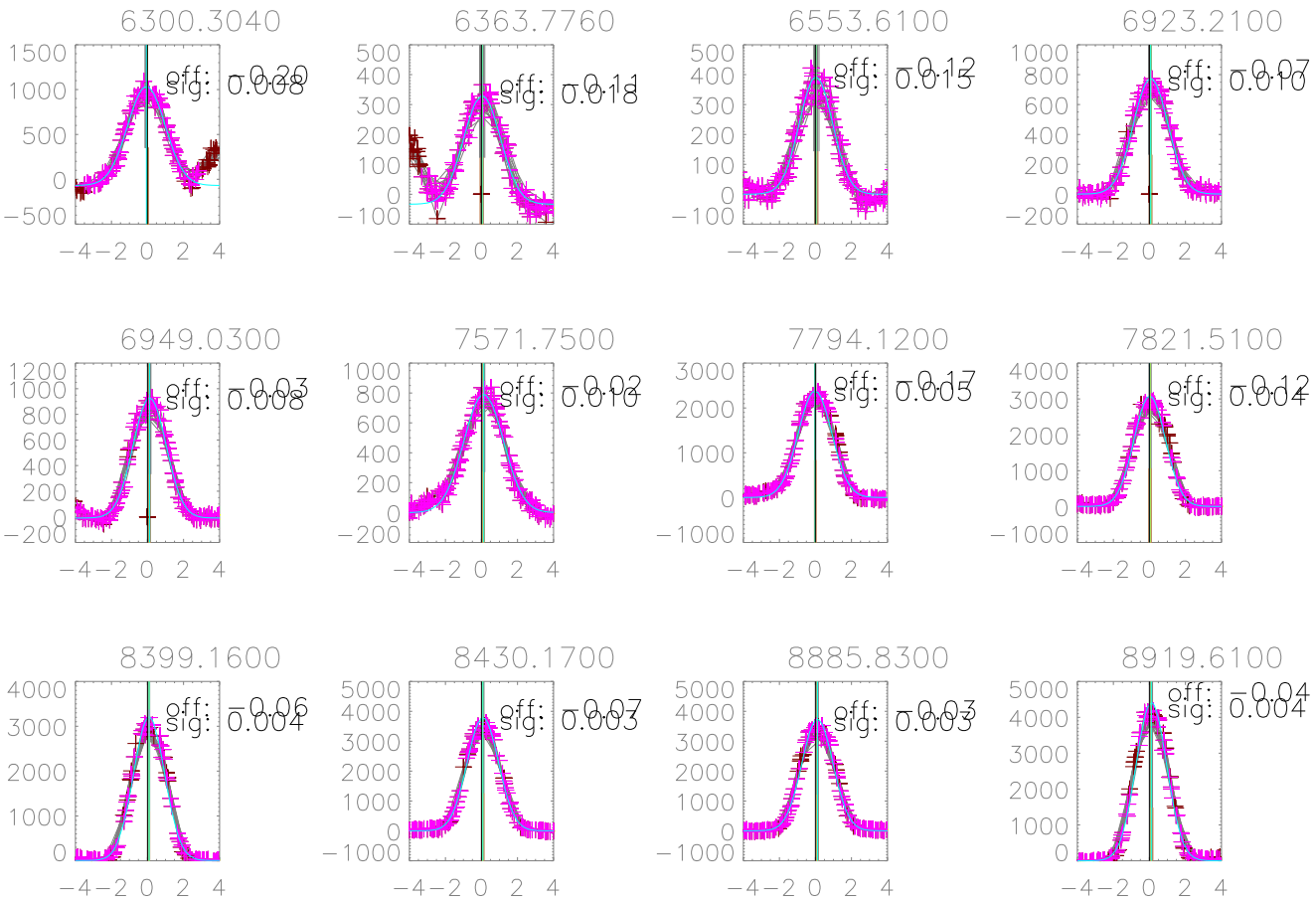

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r1-00016911.fi
38.2
38.2
38.2
27.3
27.3
16.4
0
0
0
0
0
500
1000
1500
2000
Y [pix]
X [pix]

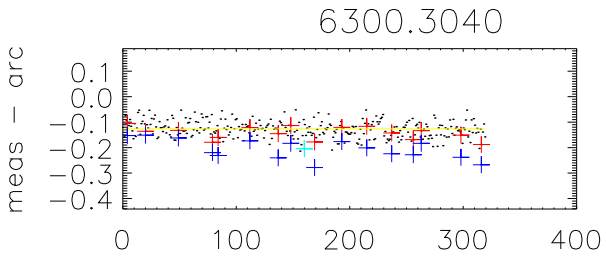

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r1-00016911.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.414
Max value = 44.936
Mon Feb 11 14:28:51 2008

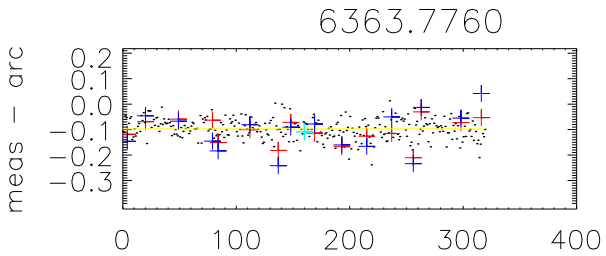

PLATE=1066 MJD=52589 Scattered Light on sdR−r1−00016911.fit
9.55
6.82
4.09
Y [pix]
X [pix]
0
500
1000
1500
2000

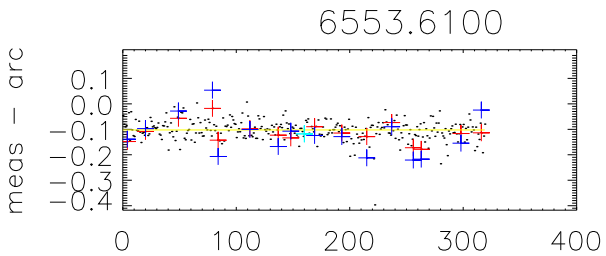

PLATE=1066 MJD=52589 Scattered Light on sdR-r1-00016911.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 1.849
Max value = 12.505
Mon Feb 11 14:31:08 2008

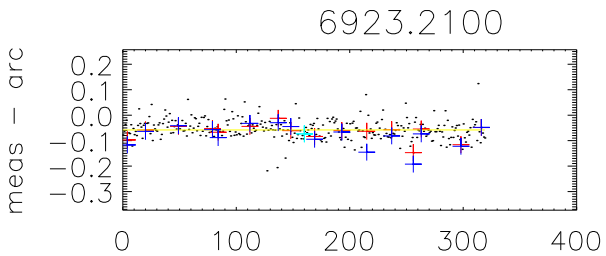

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-r1-00016911.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

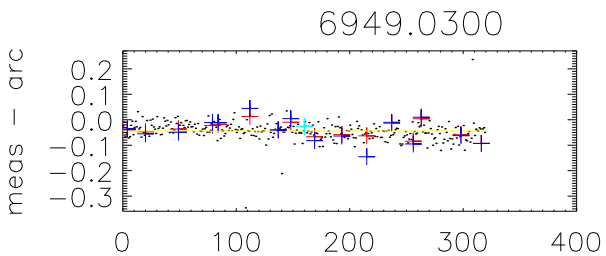

6300.3040
off: −0.20
sig: 0.008
6363.7760
off: −0.11
sig: 0.018
6553.6100
off: −0.12
sig: 0.015
6923.2100
off: −0.07
sig: 0.010
6949.0300
off: −0.03
sig: 0.008
7571.7500
off: −0.02
sig: 0.010
7794.1200
off: −0.17
sig: 0.005
7821.5100
off: −0.12
sig: 0.004
8399.1600
off: −0.06
sig: 0.004
8430.1700
off: −0.07
sig: 0.003
8885.8300
off: −0.03
sig: 0.003
8919.6100
off: −0.04
sig: 0.004

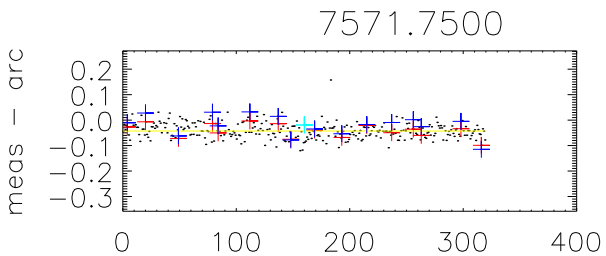

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

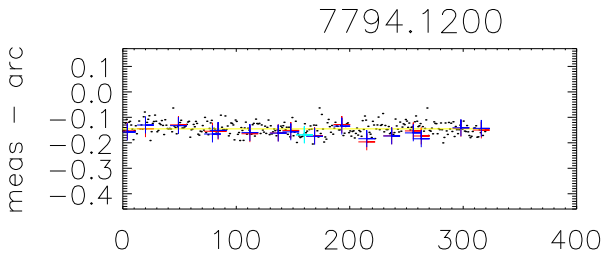

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

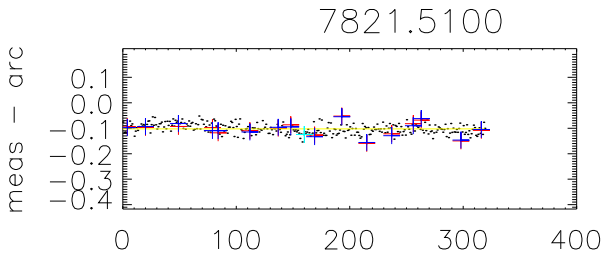

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

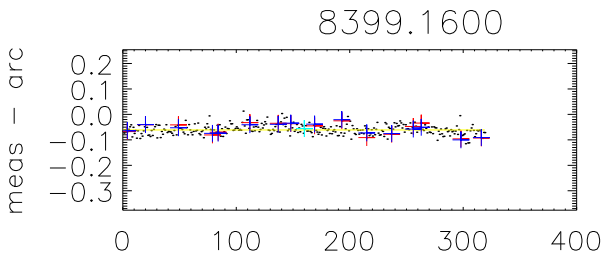

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

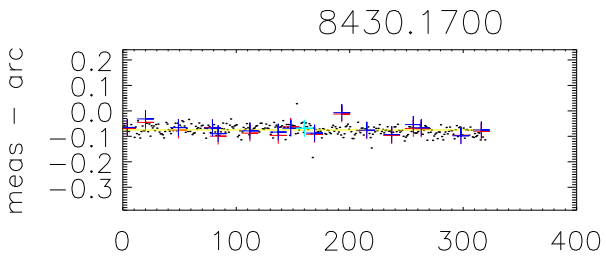

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

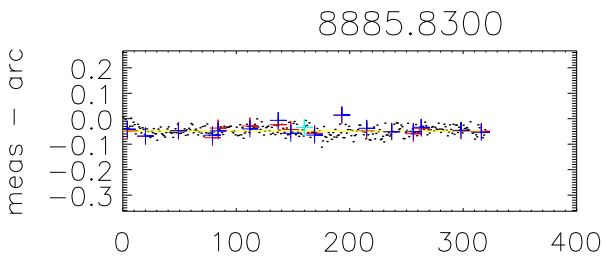

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

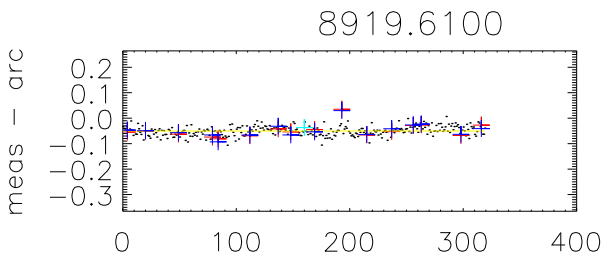

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

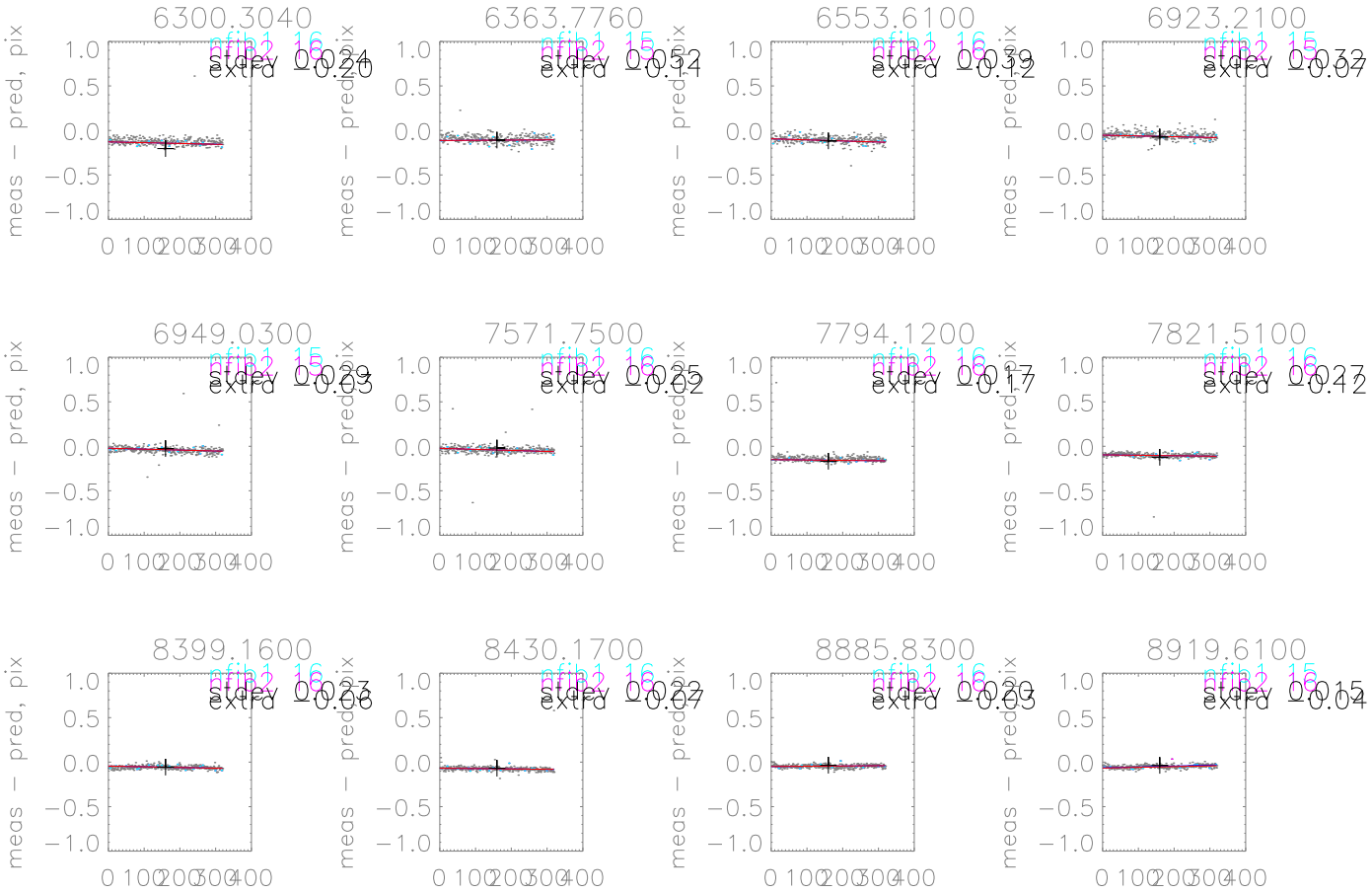

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

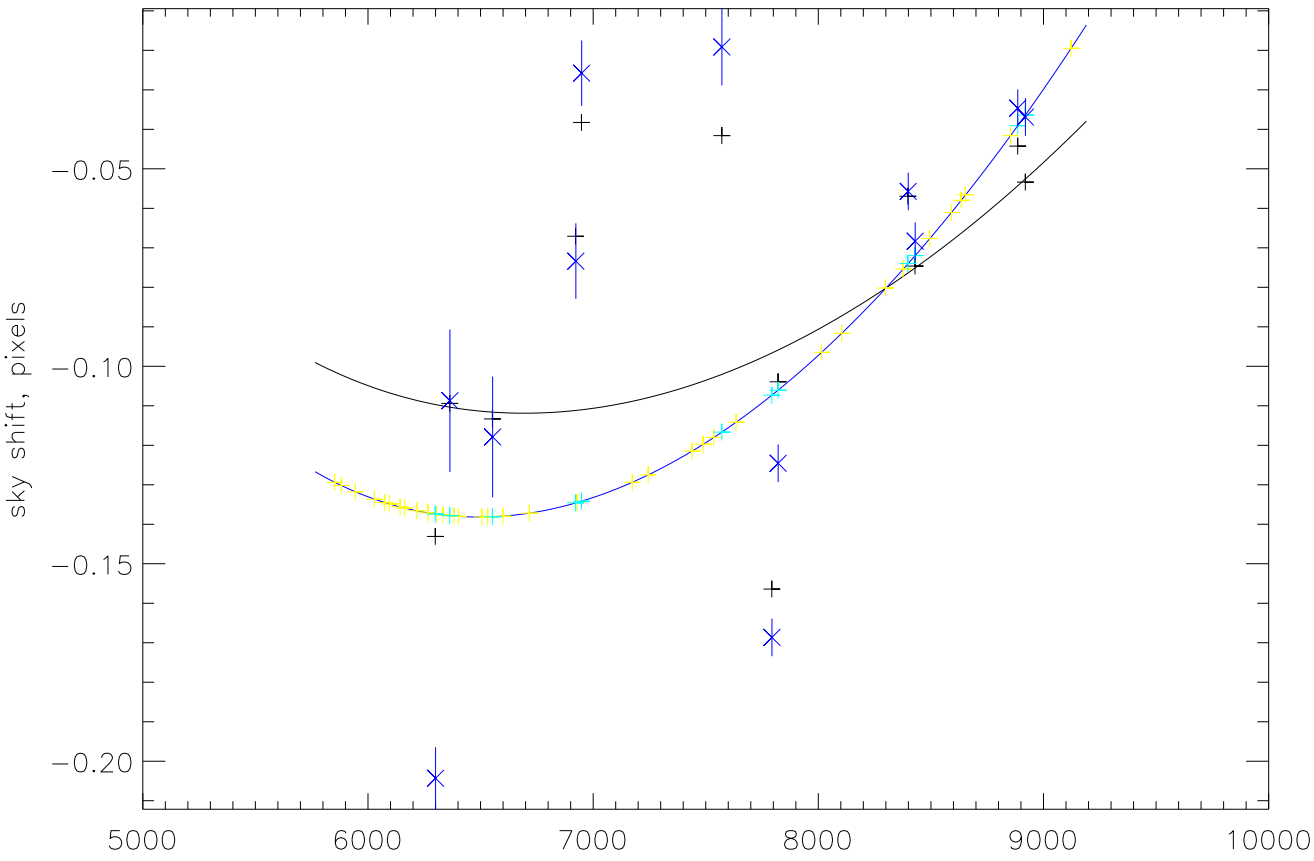

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

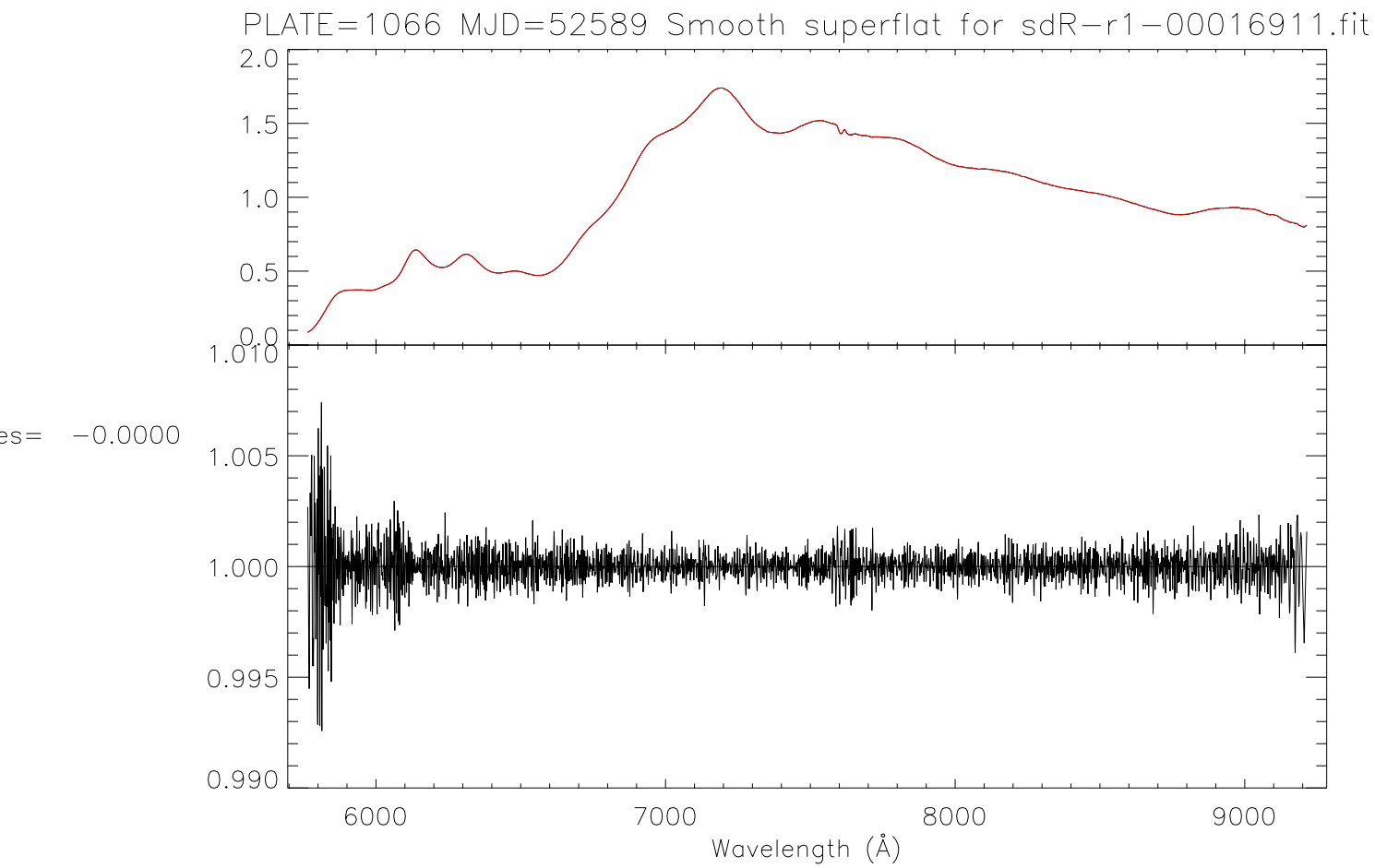

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

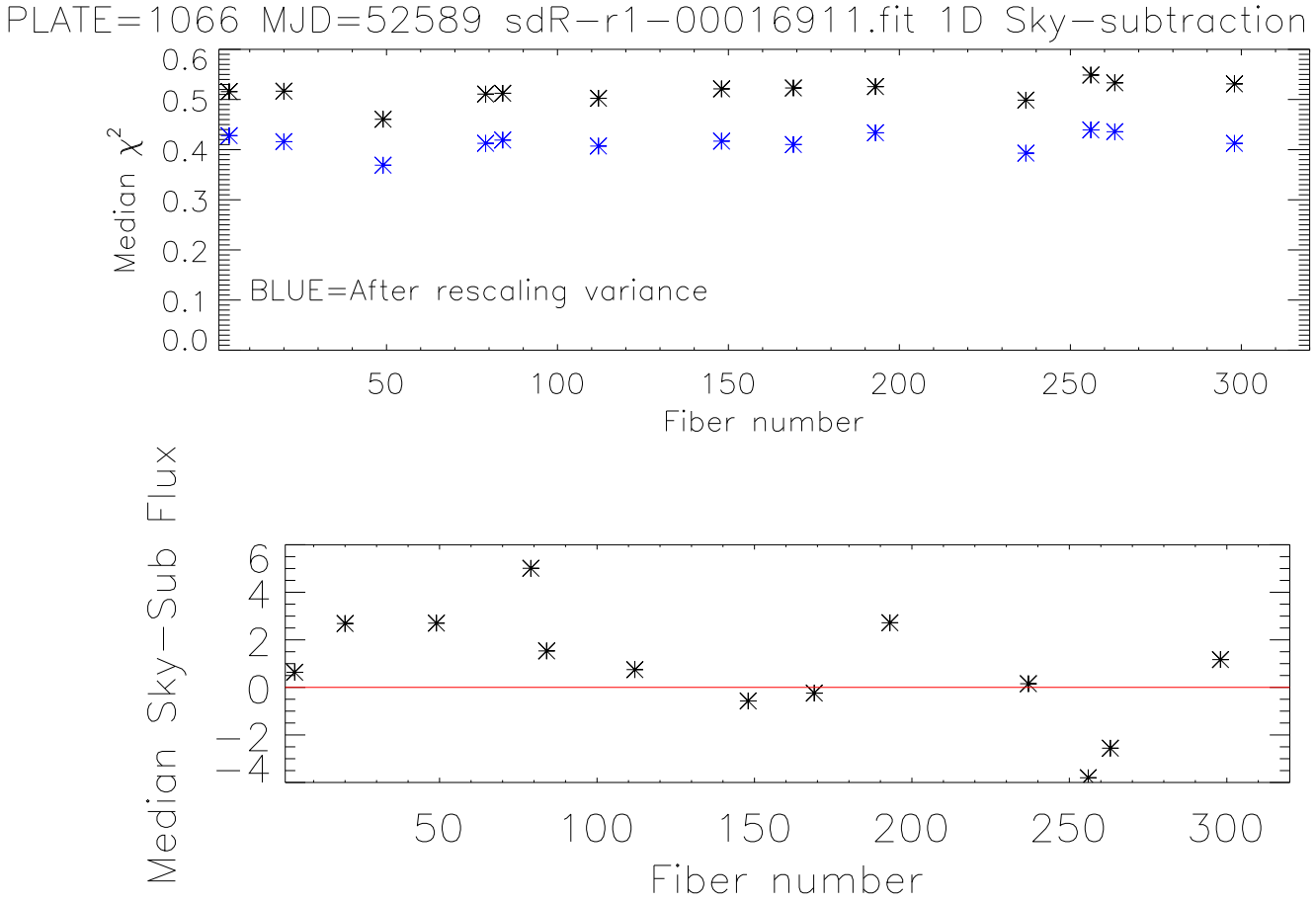

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

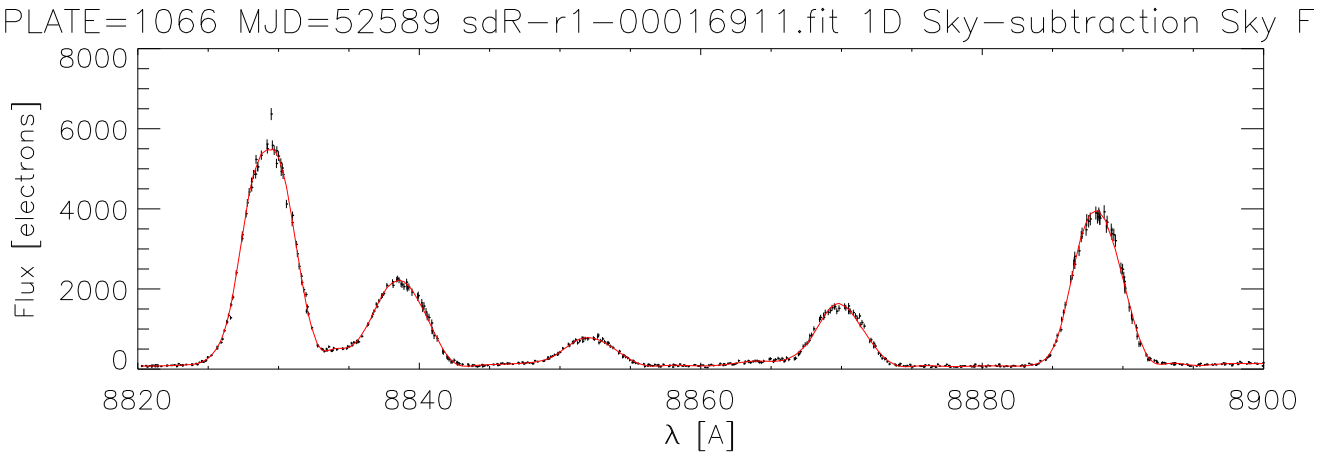

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

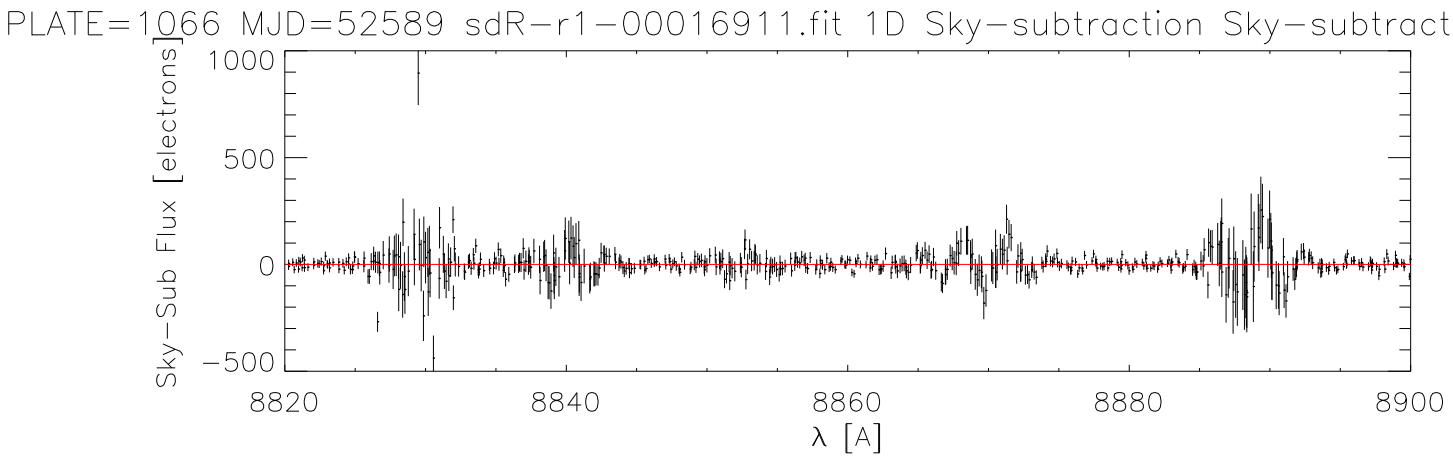

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib2 16
mfib1 15
stdev 0.24
extrd 0.20
stdev 0.52
extrd 0.14
stdev 0.39
extrd 0.12
stdev 0.32
extrd 0.07
stdev 0.29
extrd 0.03
stdev 0.25
extrd 0.02
stdev 0.17
extrd 0.17
stdev 0.27
extrd 0.42
stdev 0.23
extrd 0.06
stdev 0.22
extrd 0.07
stdev 0.20
extrd 0.03
stdev 0.15
extrd 0.04

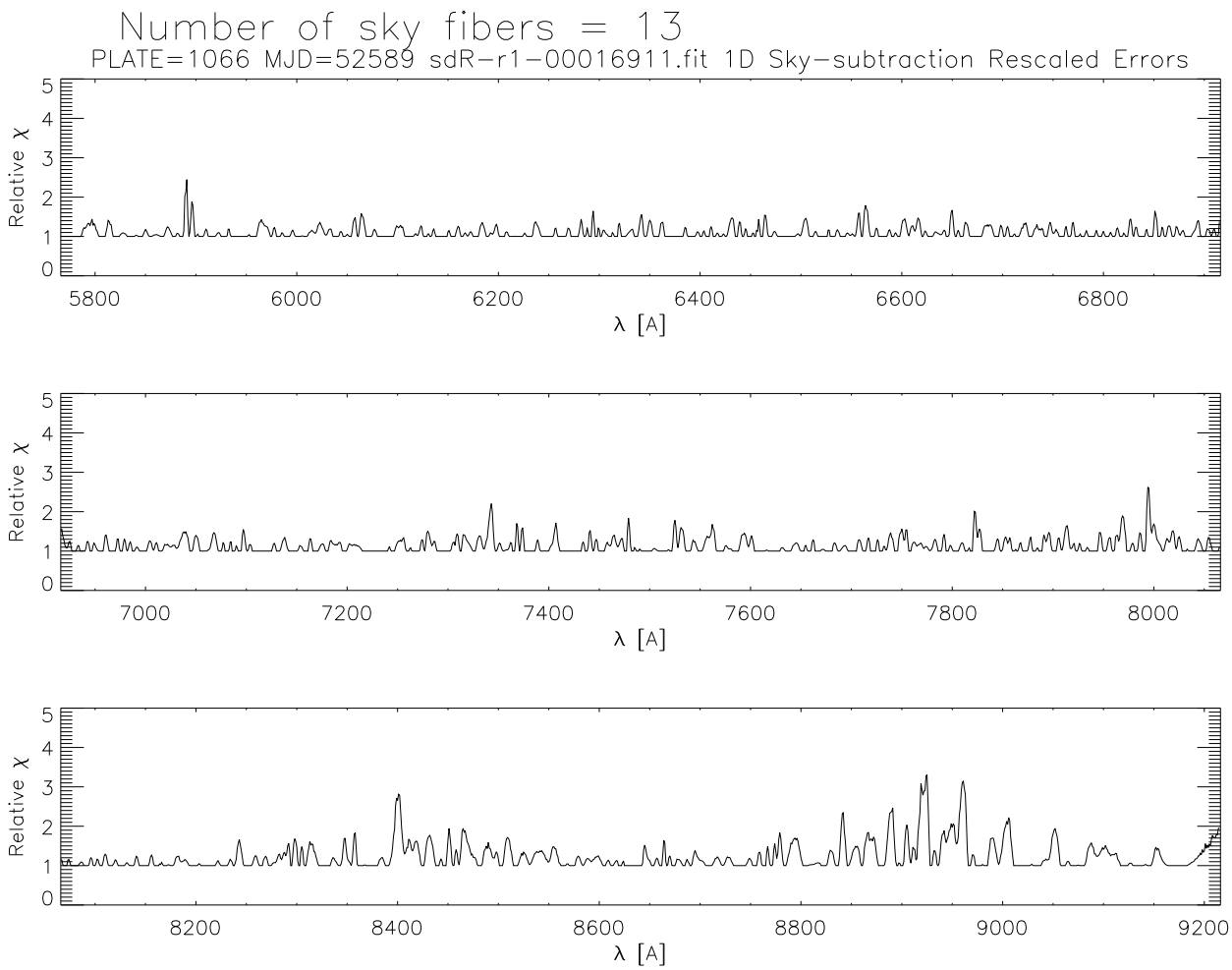

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
5000
6000
7000
8000
9000
10000

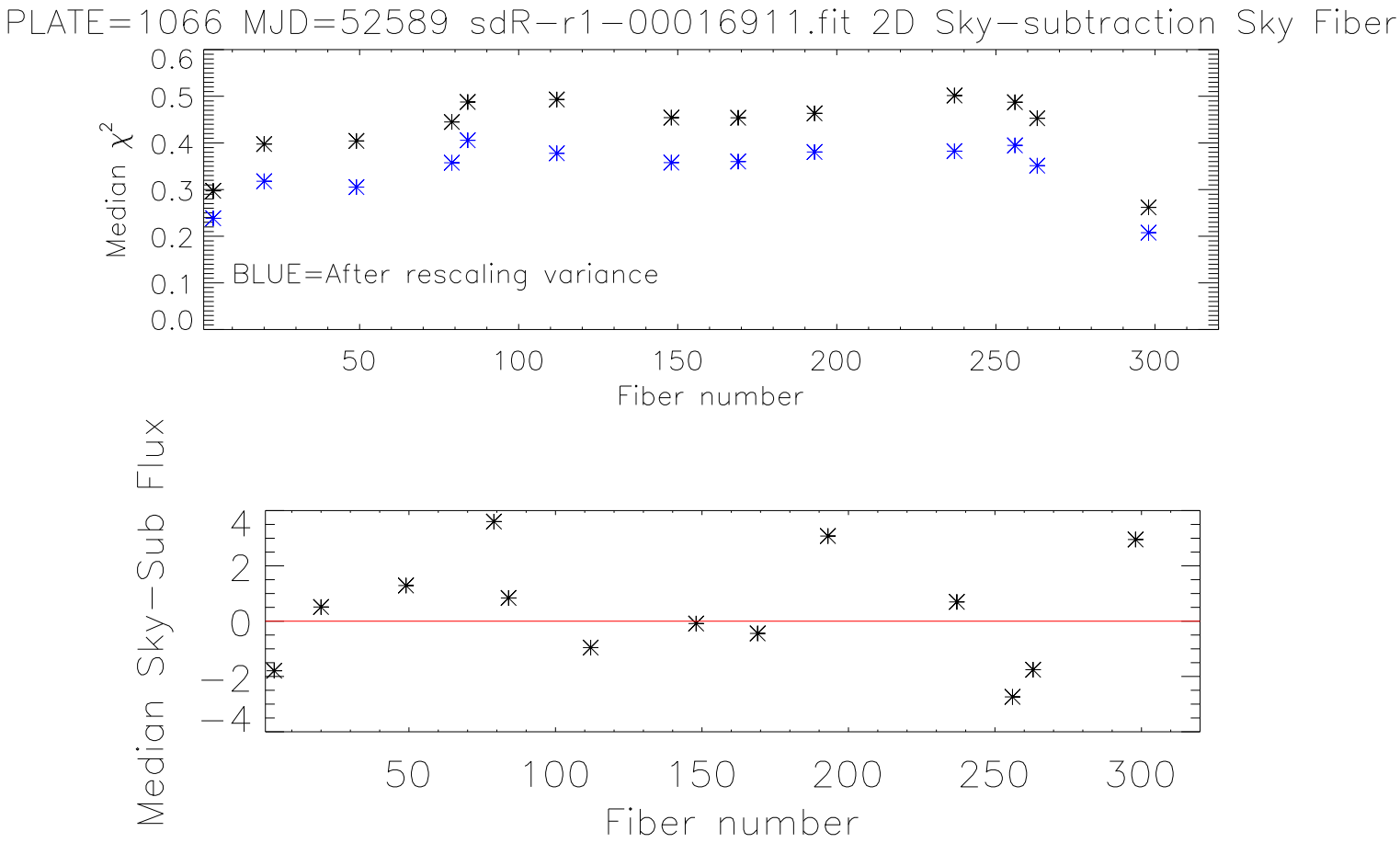

PLATE=1066 MJD=52589 Smooth superflat for sdR-r1-00016911.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

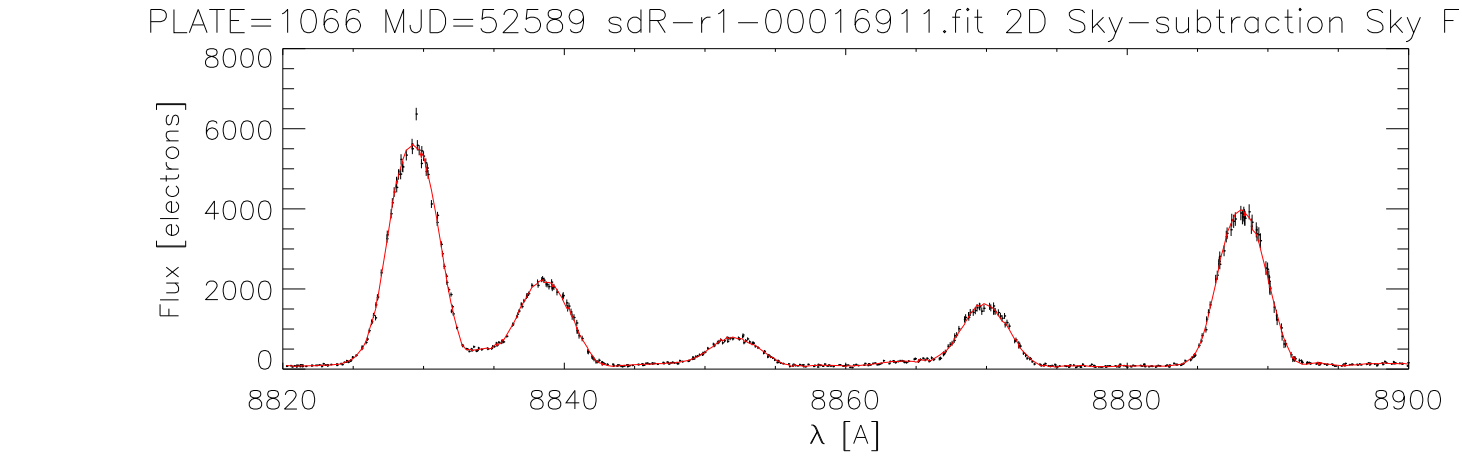

PLATE=1066 MJD=52589 sdR-r1-00016911.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

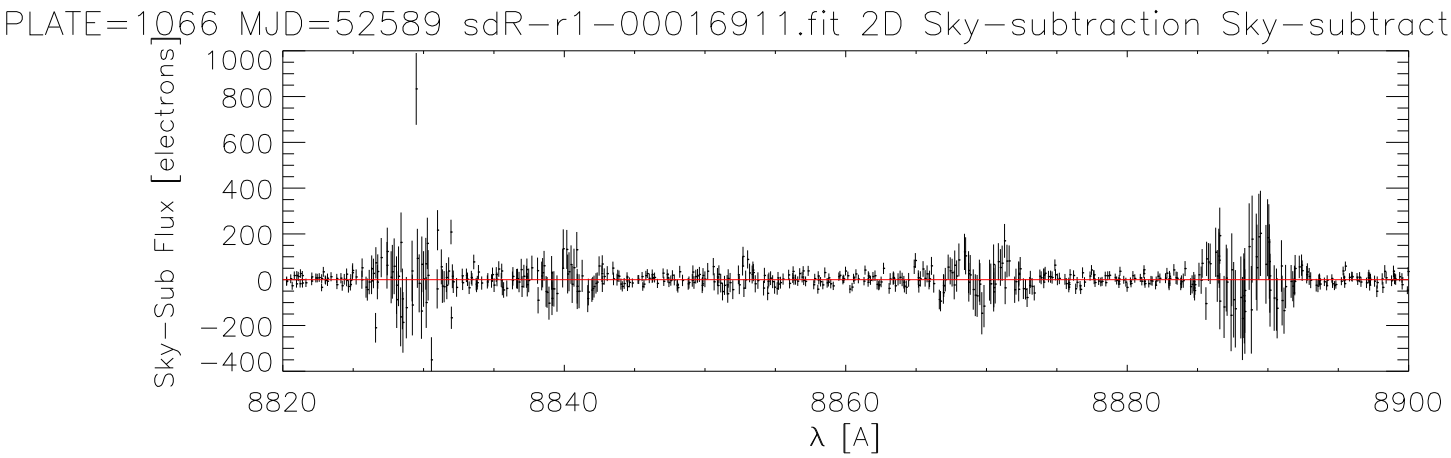

PLATE=1066 MJD=52589 sdR-r1-00016911.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

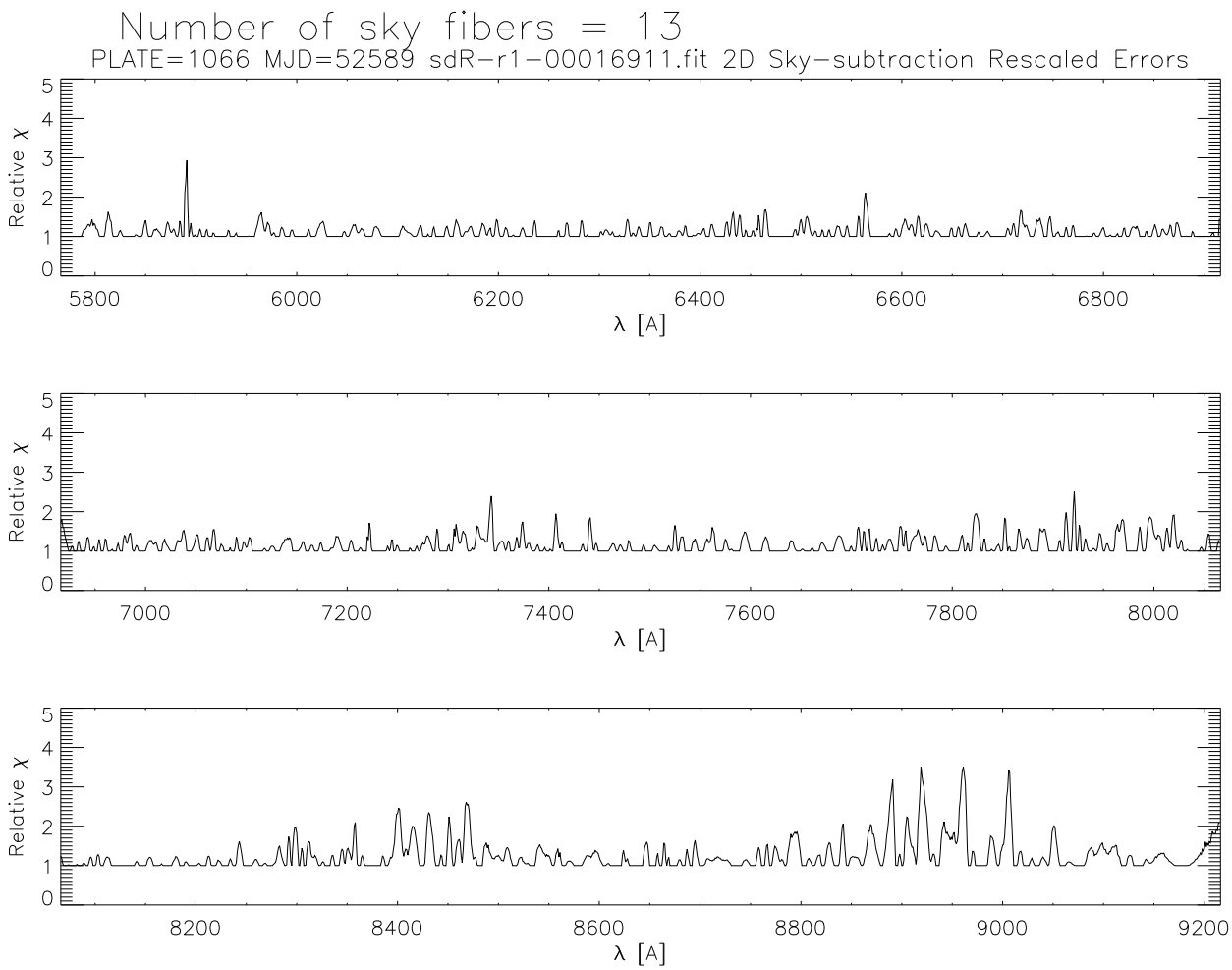

PLATE=1066 MJD=52589 sdR-r1-00016911.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

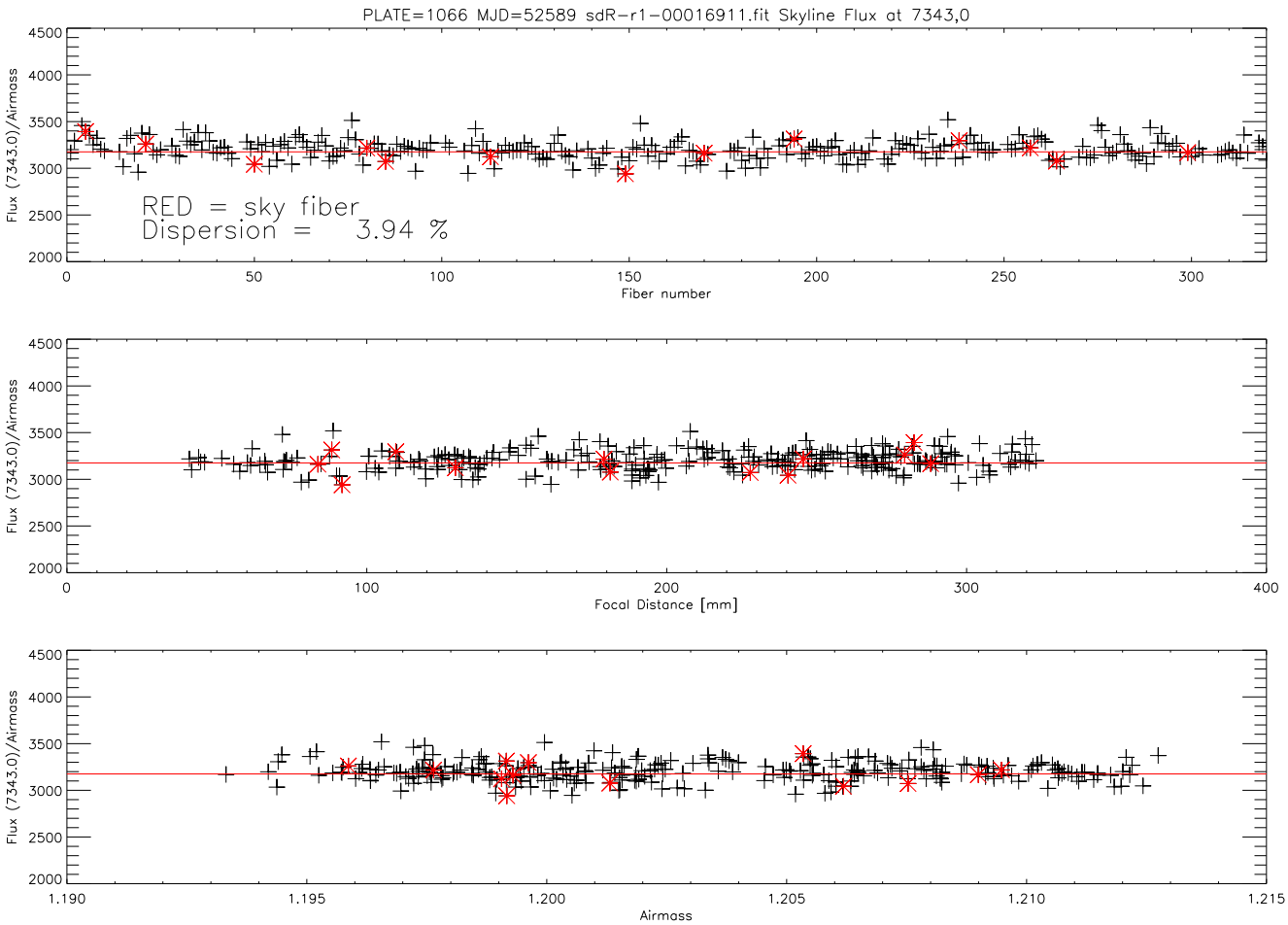

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r1-00016911.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

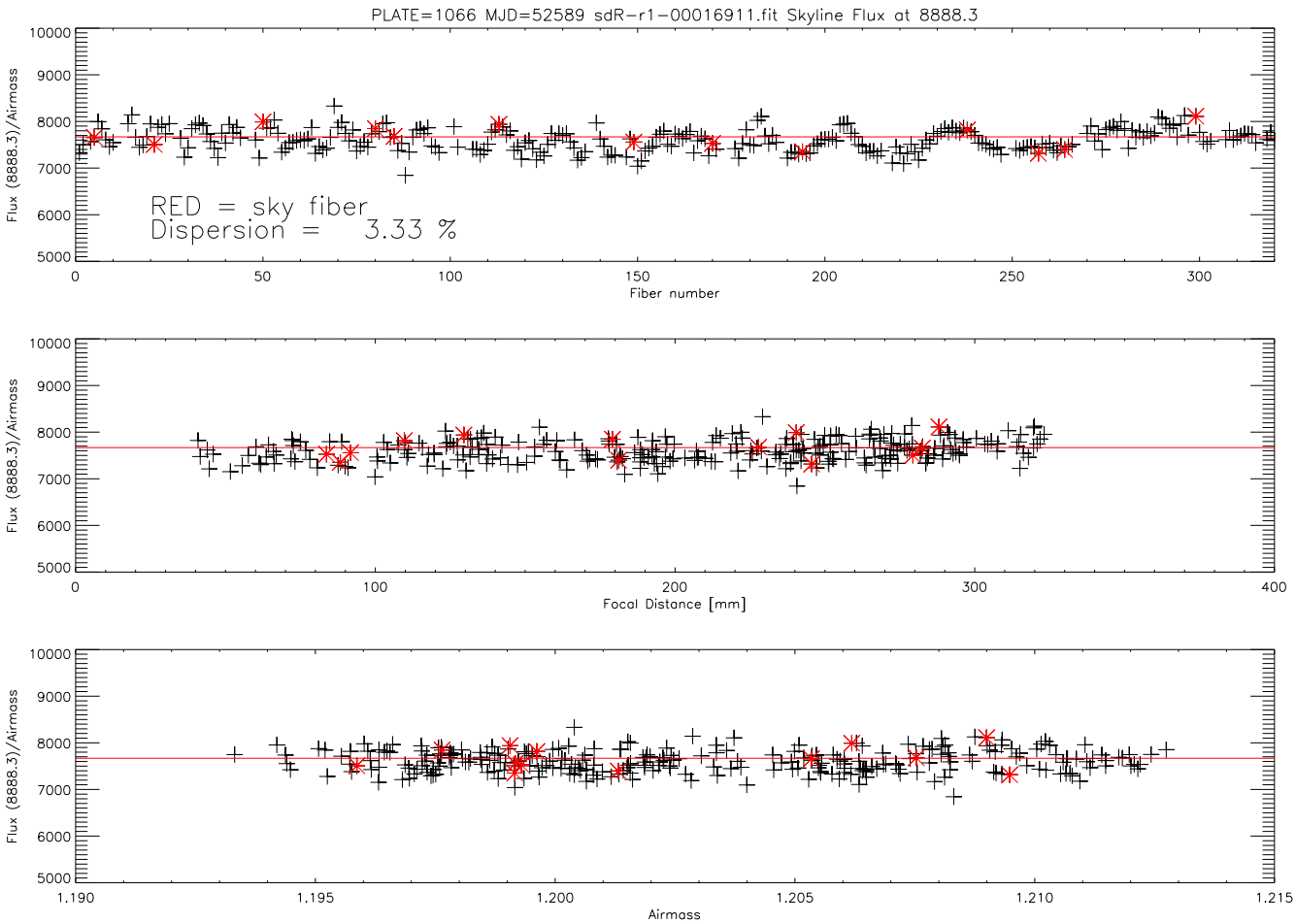

PLATE=1066 MJD=52589 sdR-r1-00016911.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
50
100
150
200
250
300
Fiber number

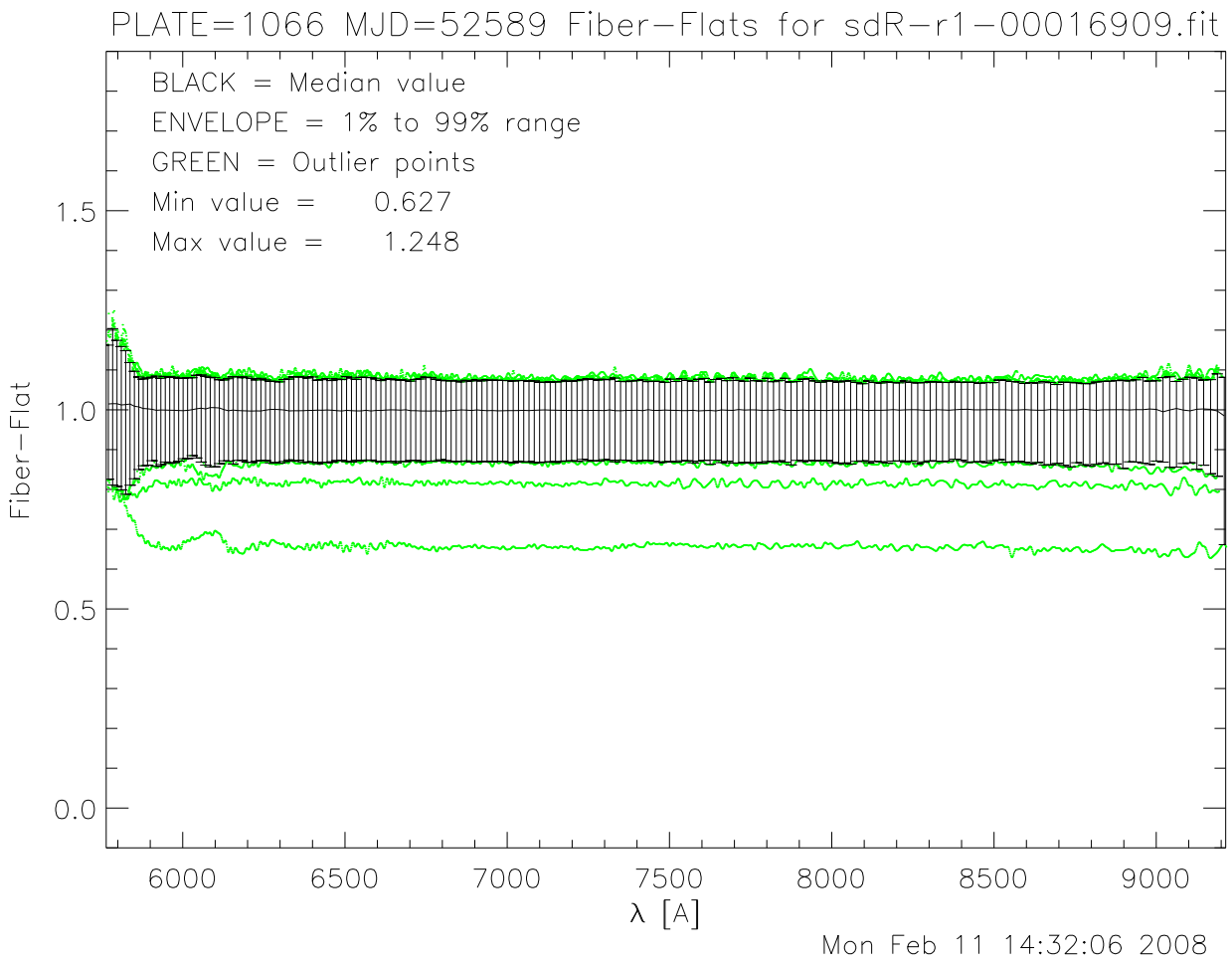

PLATE=1066 MJD=52589 sdR-r1-00016911.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

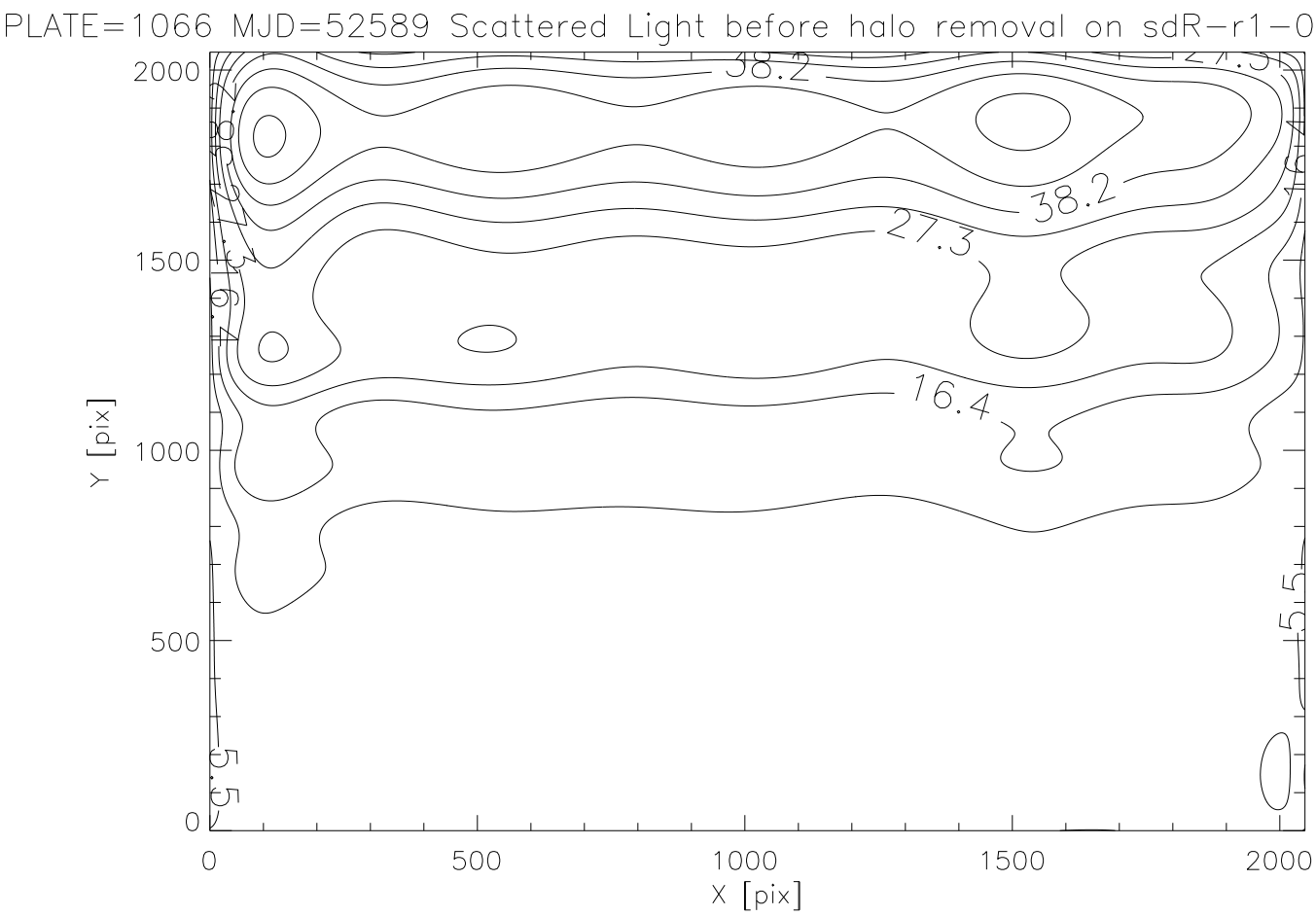

PLATE=1066 MJD=52589 sdR-r1-00016911.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

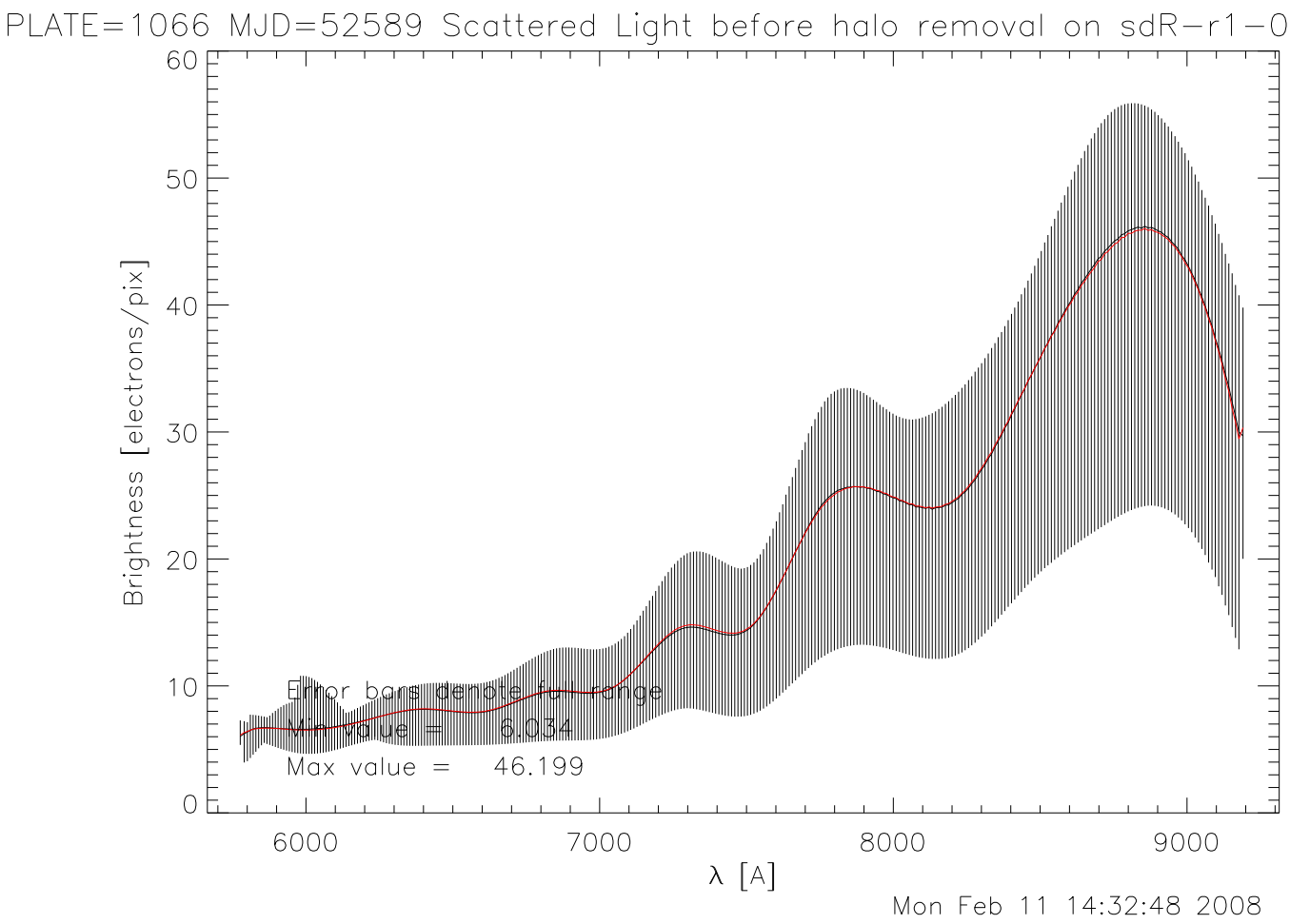

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r1-00016911.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

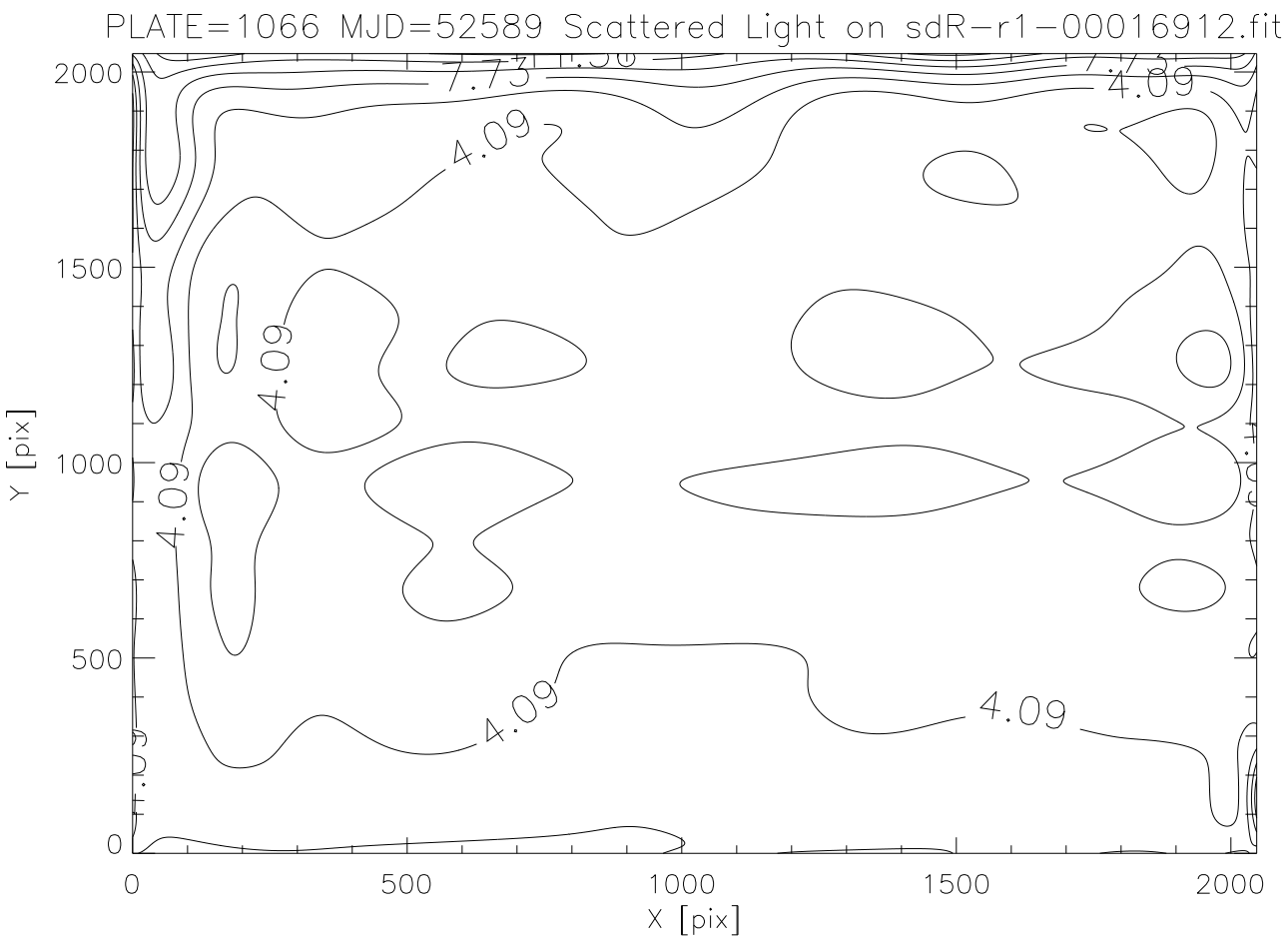

PLATE=1066 MJD=52589 sdR-r1-00016911.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.94 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

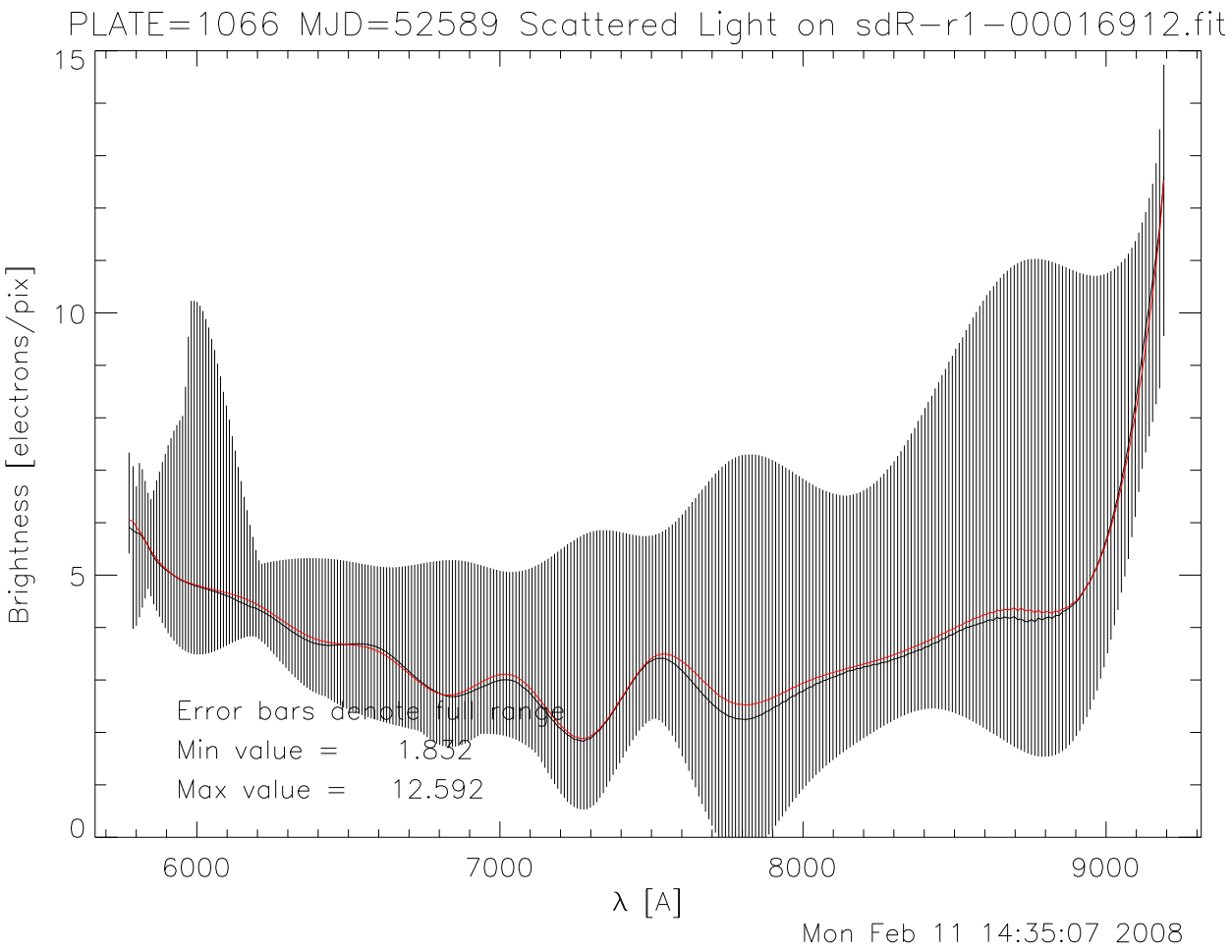

PLATE=1066 MJD=52589 sdR-r1-00016911.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.33 %
Fiber number
Focal Distance [mm]
Airmass

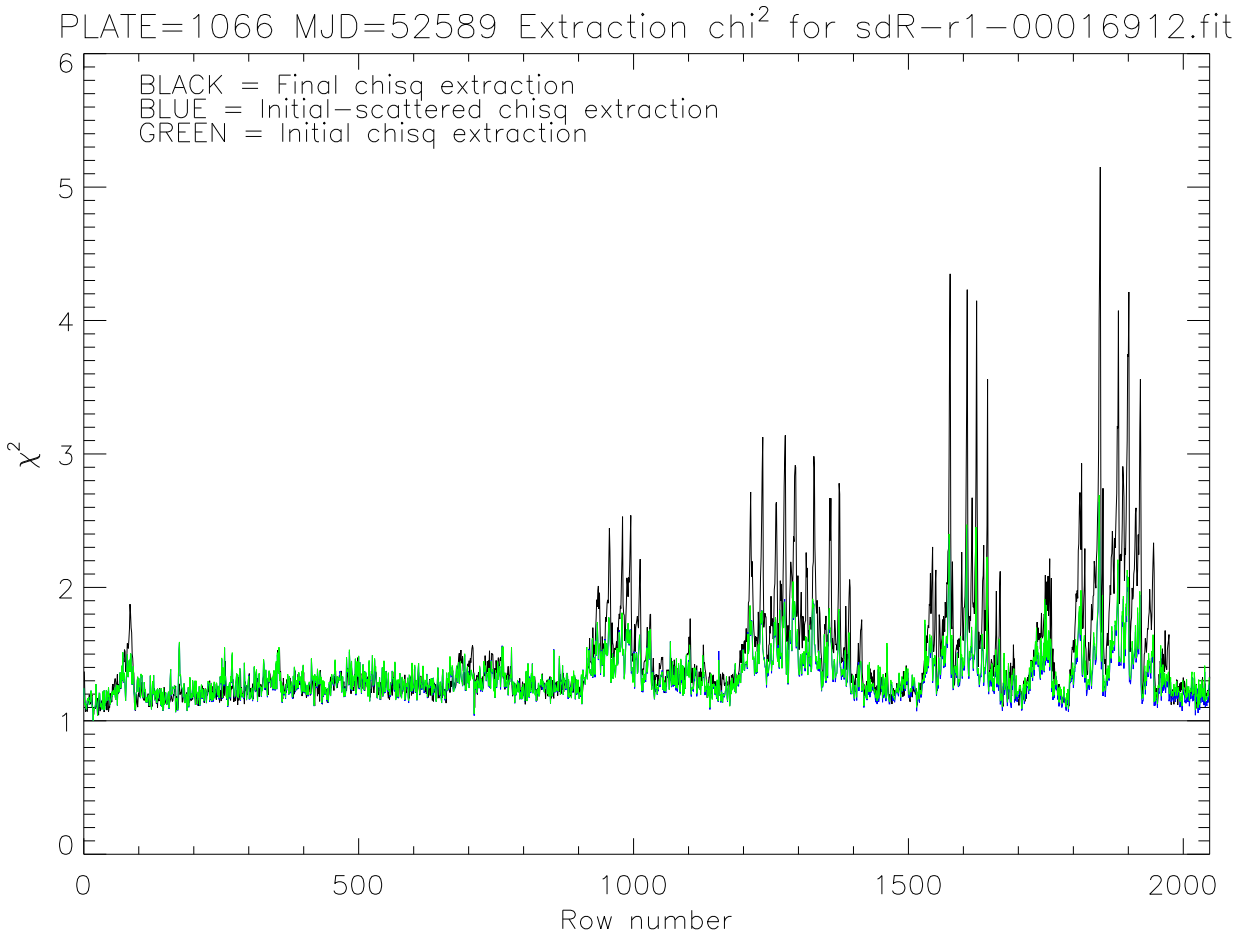

PLATE=1066 MJD=52589 Fiber−Flats for sdR−r1−00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.627
Max value = 1.248
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 14:32:06 2008

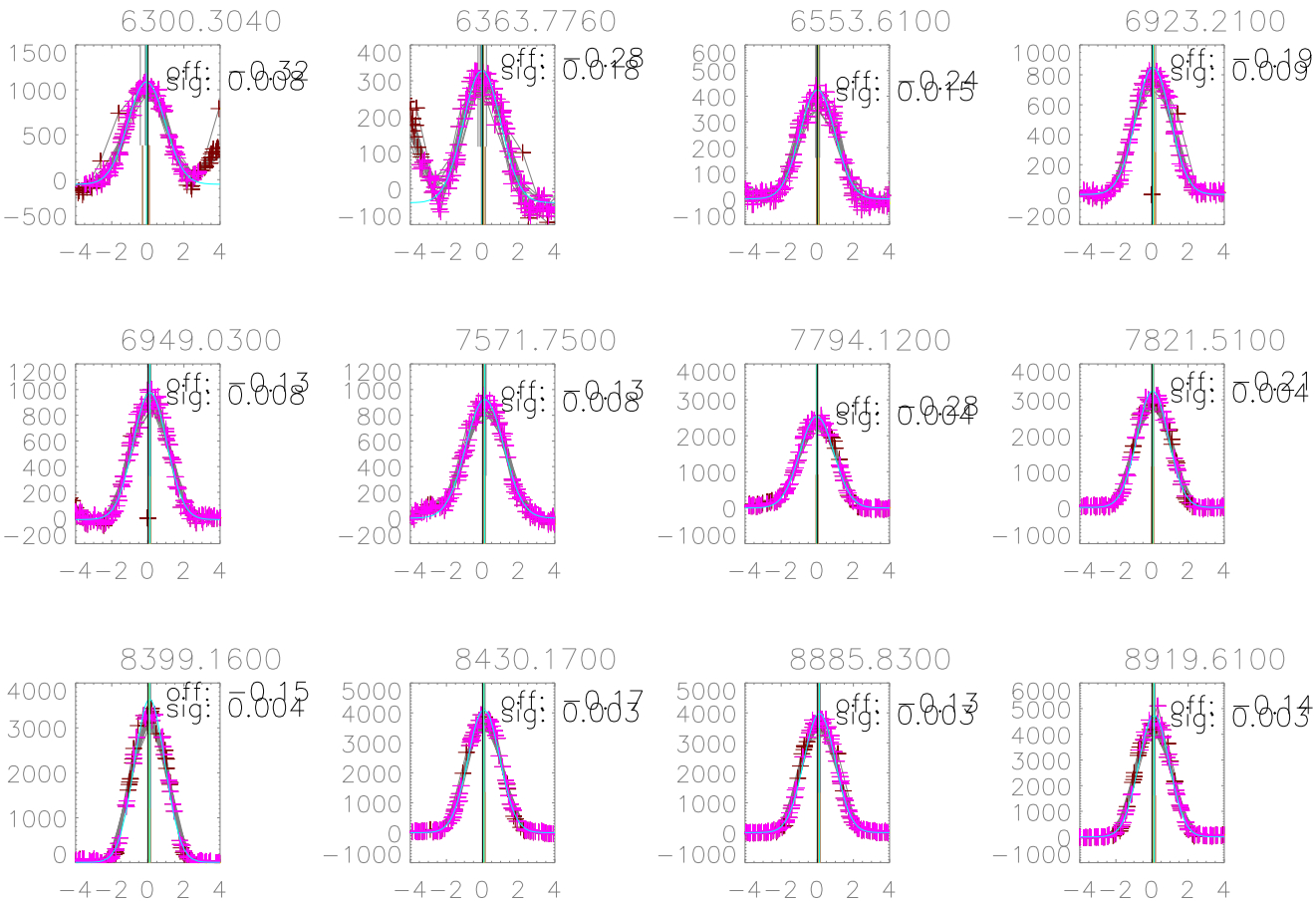

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r1-00016912.fi
38.2
38.2
27.3
16.4
5.5
Y [pix]
X [pix]
0
500
1000
1500
2000

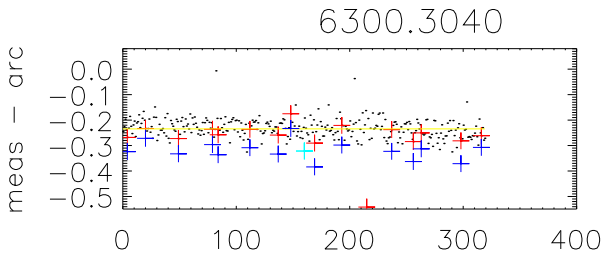

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r1-00016912.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 6.034
Max value = 46.199
Mon Feb 11 14:32:48 2008

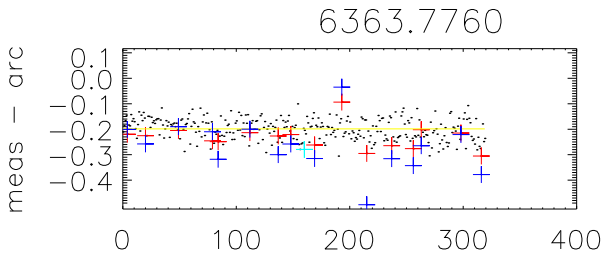

PLATE=1066 MJD=52589 Scattered Light on sdR−r1−00016912.fit
7.73
4.09
4.09
4.09
4.09
4.09
4.09
Y [pix]
X [pix]
0
500
1000
1500
2000

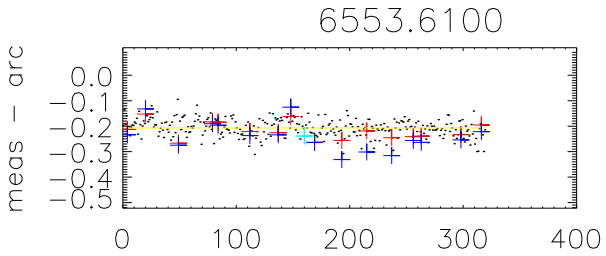

PLATE=1066 MJD=52589 Scattered Light on sdR-r1-00016912.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 1.832
Max value = 12.592
Mon Feb 11 14:35:07 2008

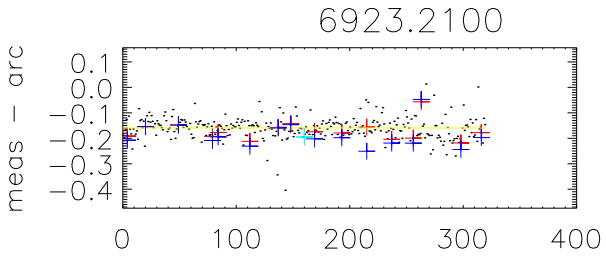

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-r1-00016912.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

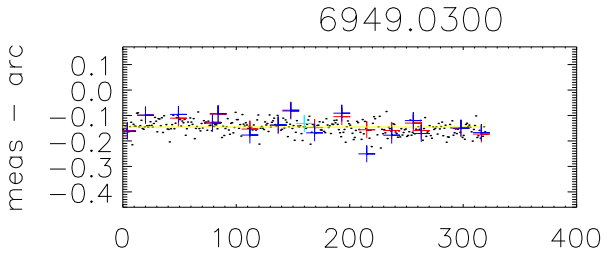

6300.3040
off: −0.32
sig: 0.008
6363.7760
off: −0.28
sig: 0.018
6553.6100
off: −0.24
sig: 0.015
6923.2100
off: −0.19
sig: 0.009
6949.0300
off: −0.13
sig: 0.008
7571.7500
off: −0.13
sig: 0.008
7794.1200
off: −0.28
sig: 0.004
7821.5100
off: −0.21
sig: 0.004
8399.1600
off: −0.15
sig: 0.004
8430.1700
off: −0.17
sig: 0.003
8885.8300
off: −0.13
sig: 0.003
8919.6100
off: −0.14
sig: 0.003

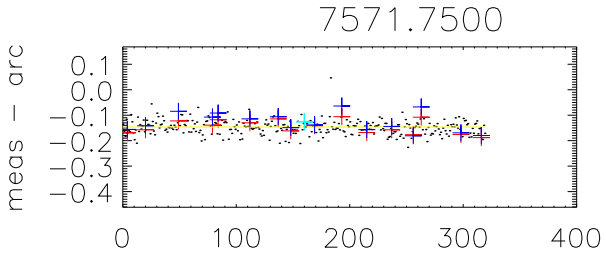

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

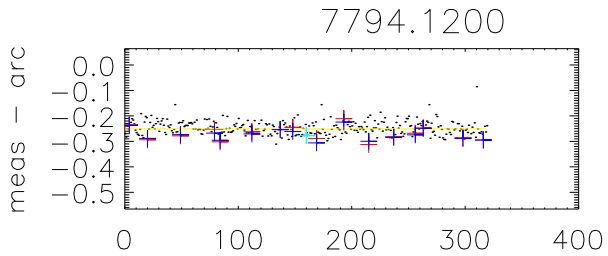

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

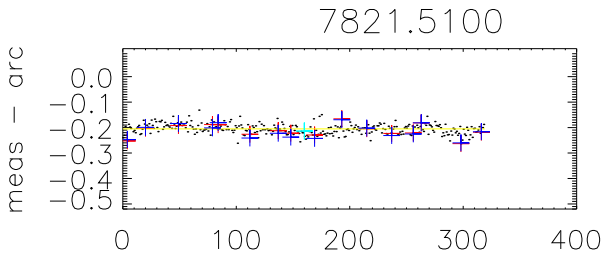

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

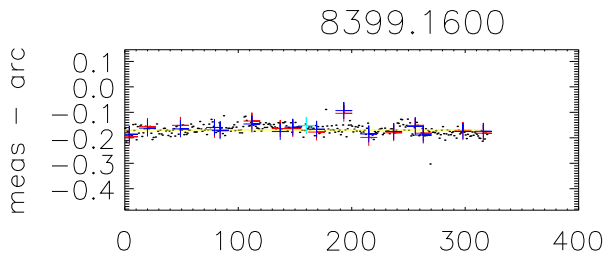

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

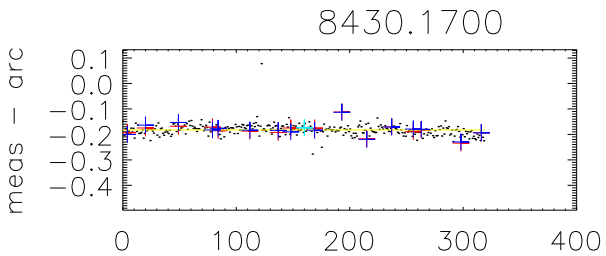

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

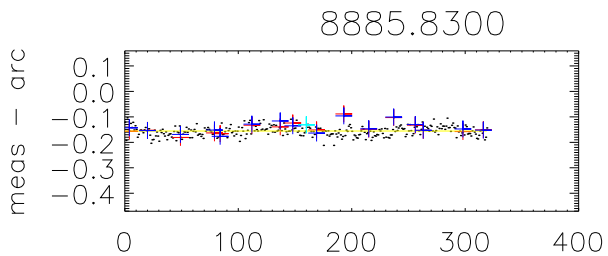

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

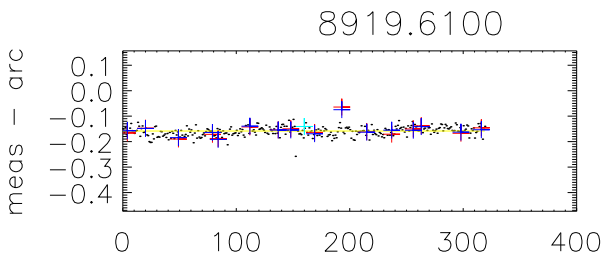

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

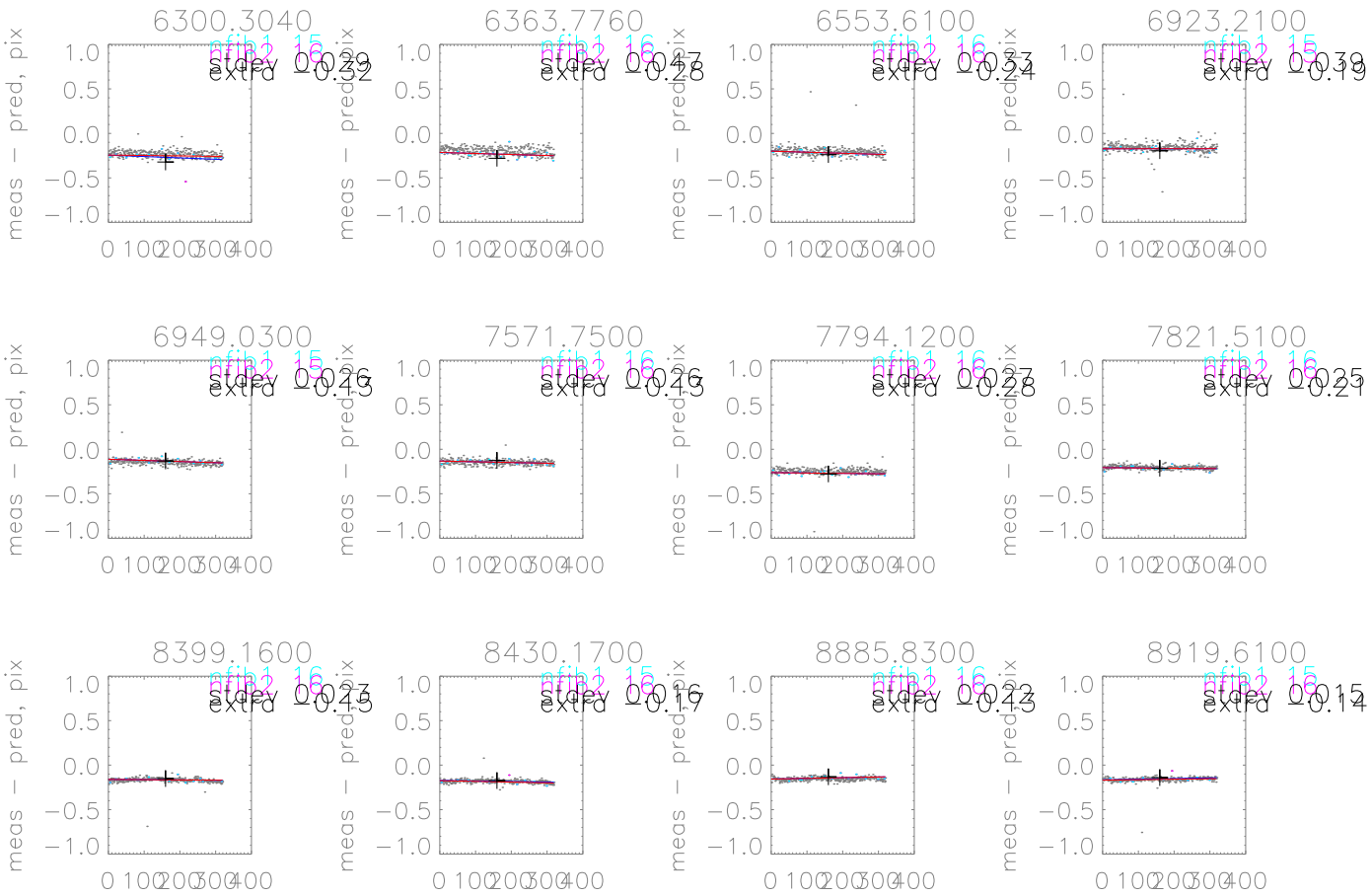

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

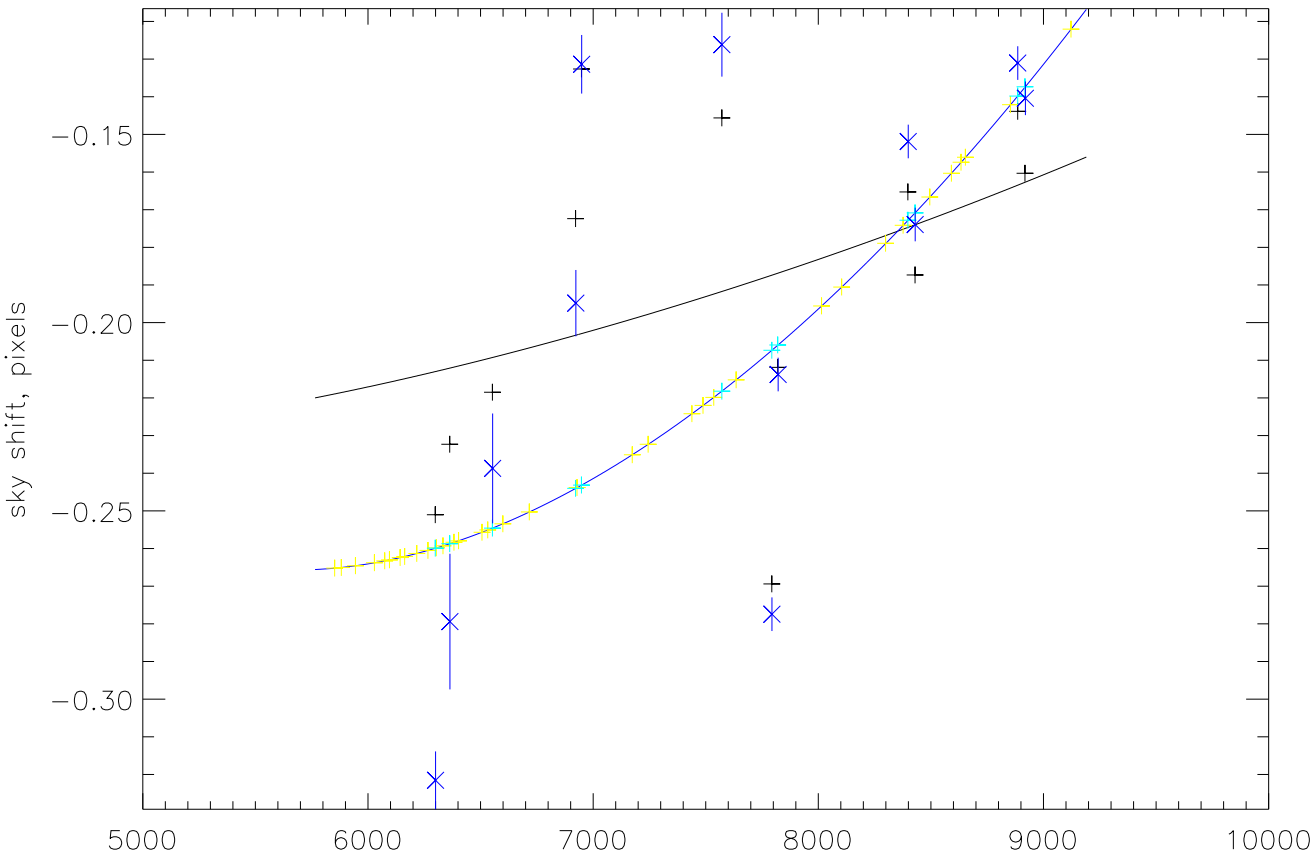

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

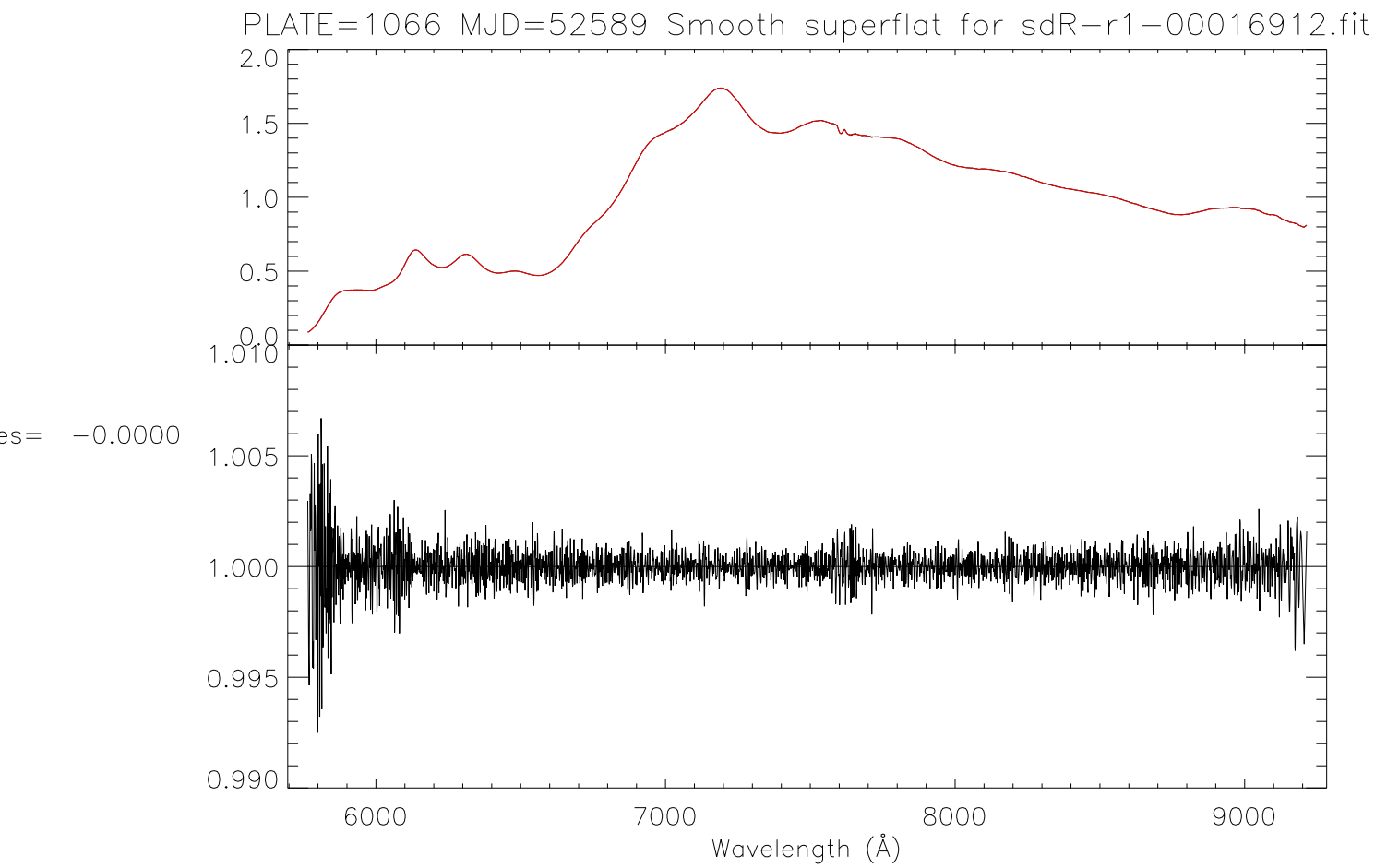

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

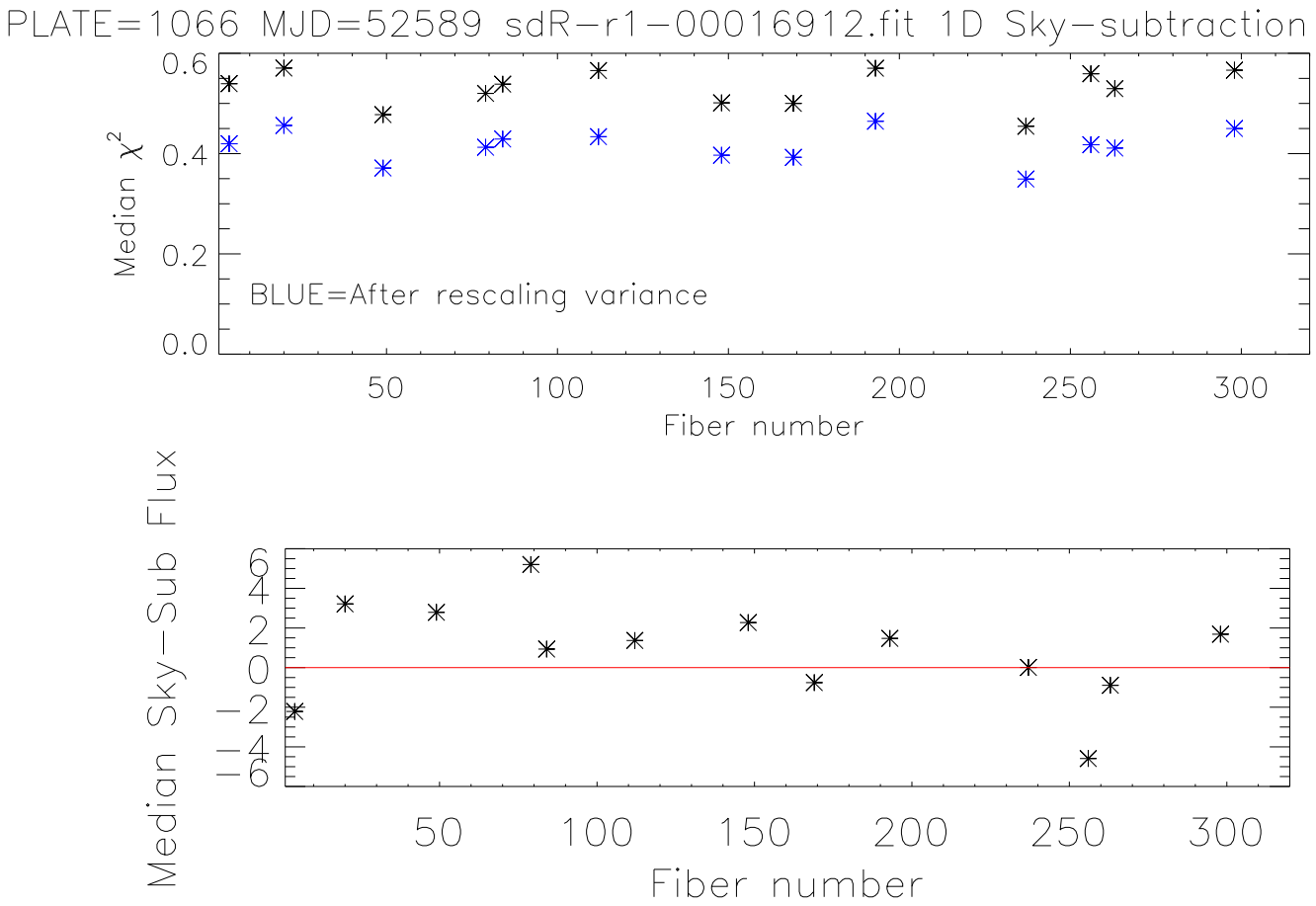

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

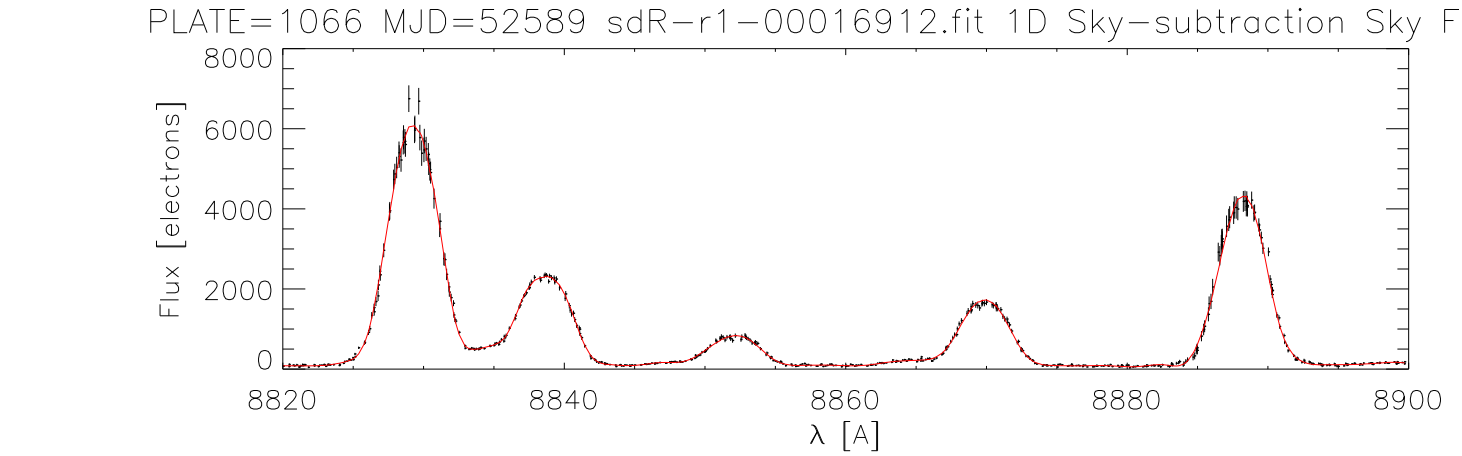

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfib2 15
mfib2 16
stdev 0.029
extra 0.32
stdev 0.047
extra 0.28
stdev 0.033
extra 0.24
stdev 0.038
extra 0.19
stdev 0.026
extra 0.43
stdev 0.026
extra 0.43
stdev 0.037
extra 0.28
stdev 0.025
extra 0.21
stdev 0.027
extra 0.45
stdev 0.016
extra 0.17
stdev 0.022
extra 0.43
stdev 0.015
extra 0.14

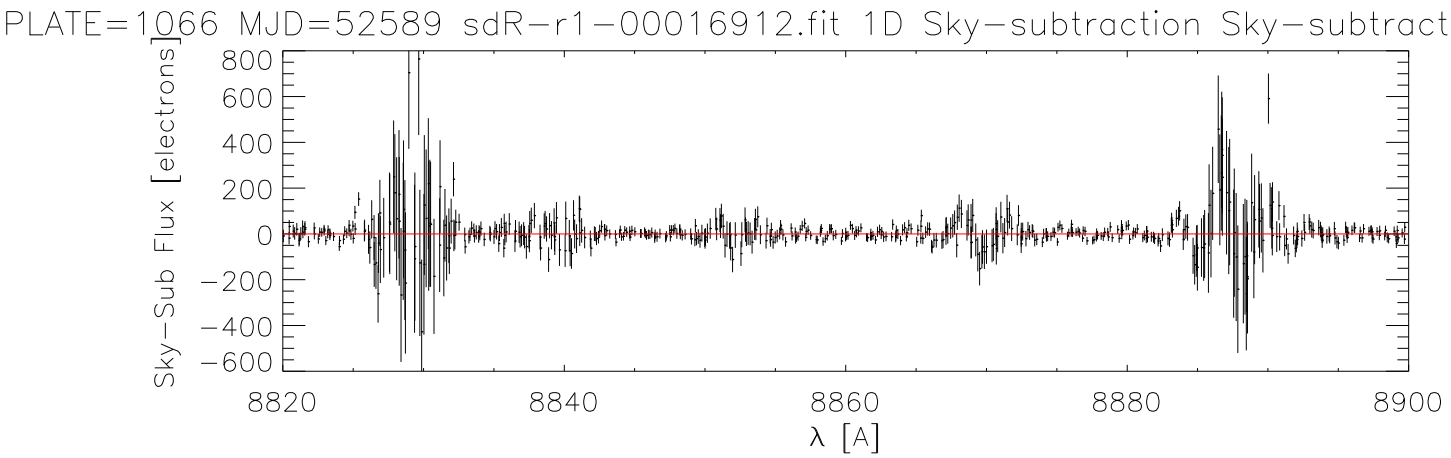

sky shift, pixels
−0.15
−0.20
−0.25
−0.30
5000
6000
7000
8000
9000
10000

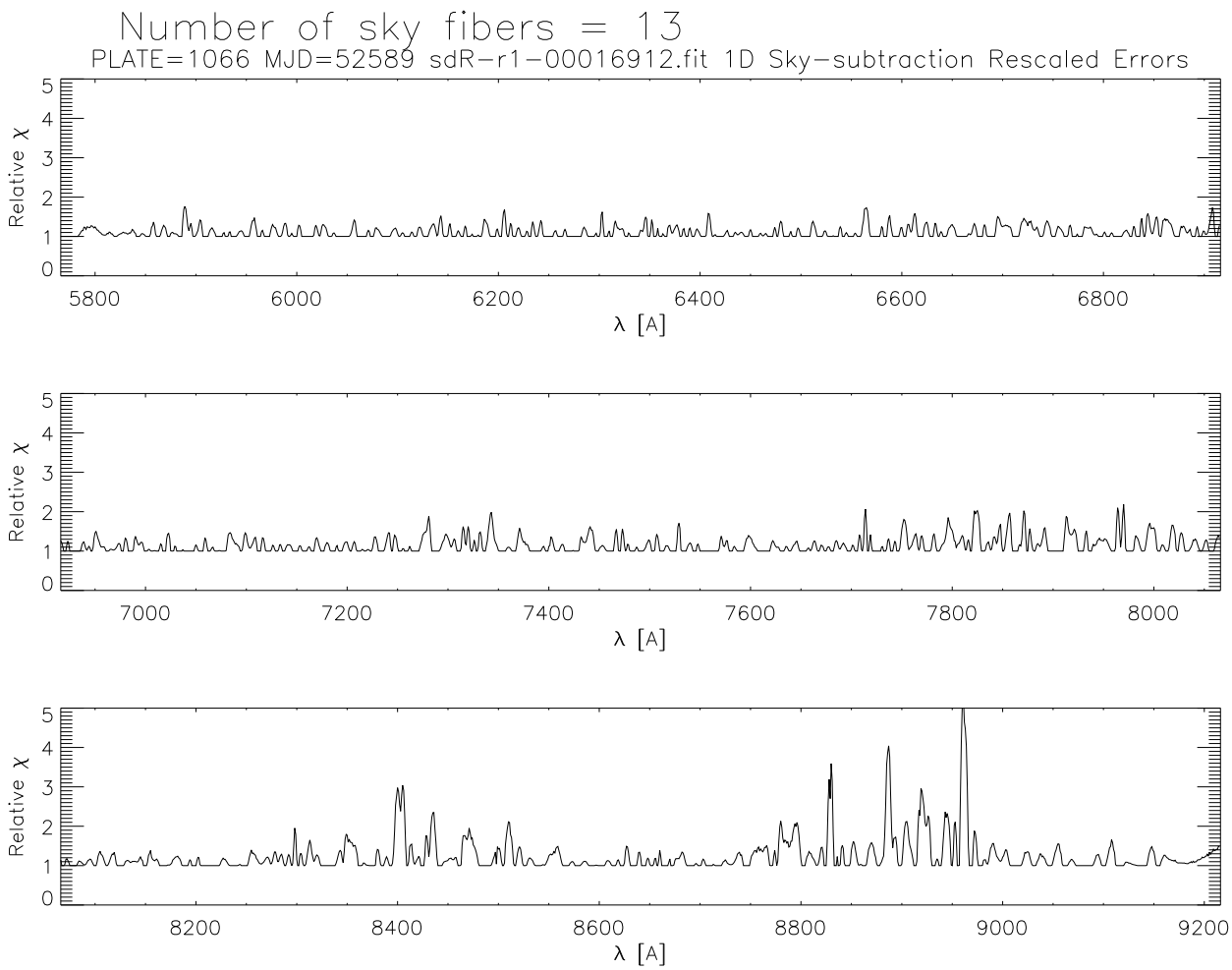

PLATE=1066 MJD=52589 Smooth superflat for sdR-r1-00016912.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

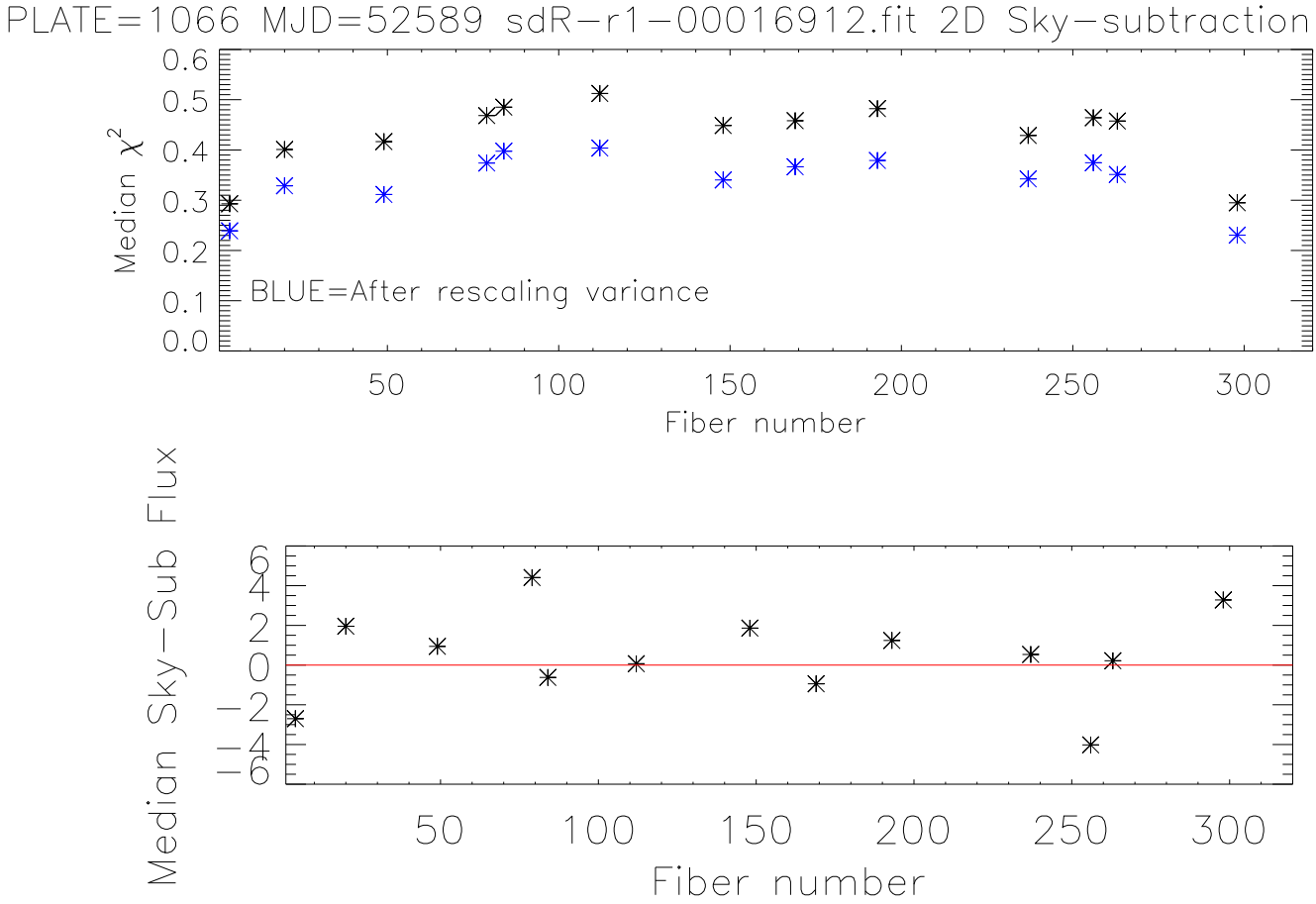

PLATE=1066 MJD=52589 sdR-r1-00016912.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

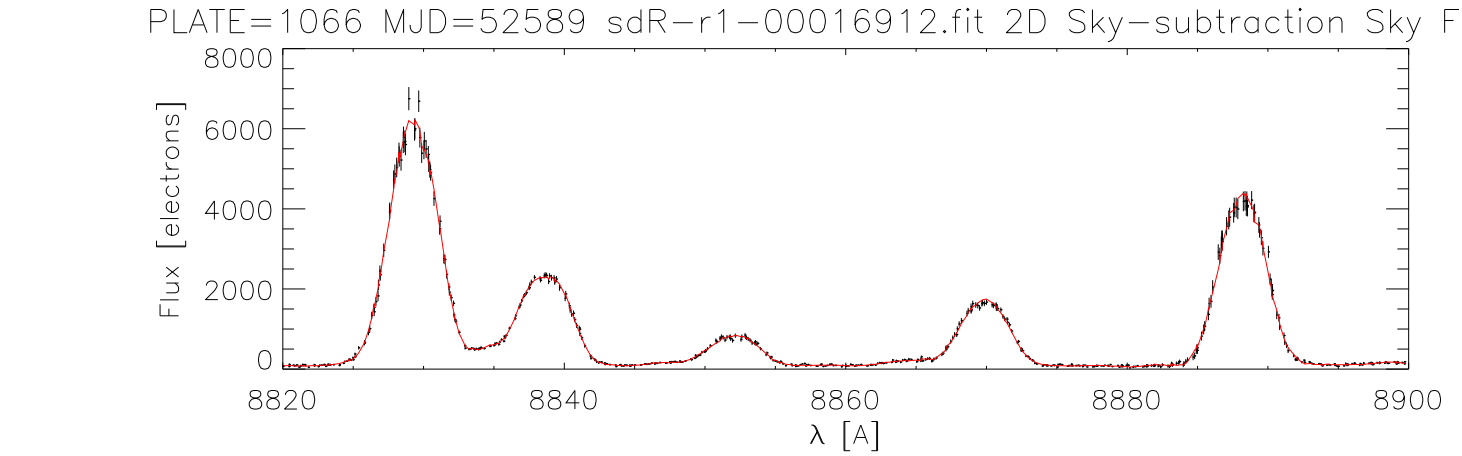
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

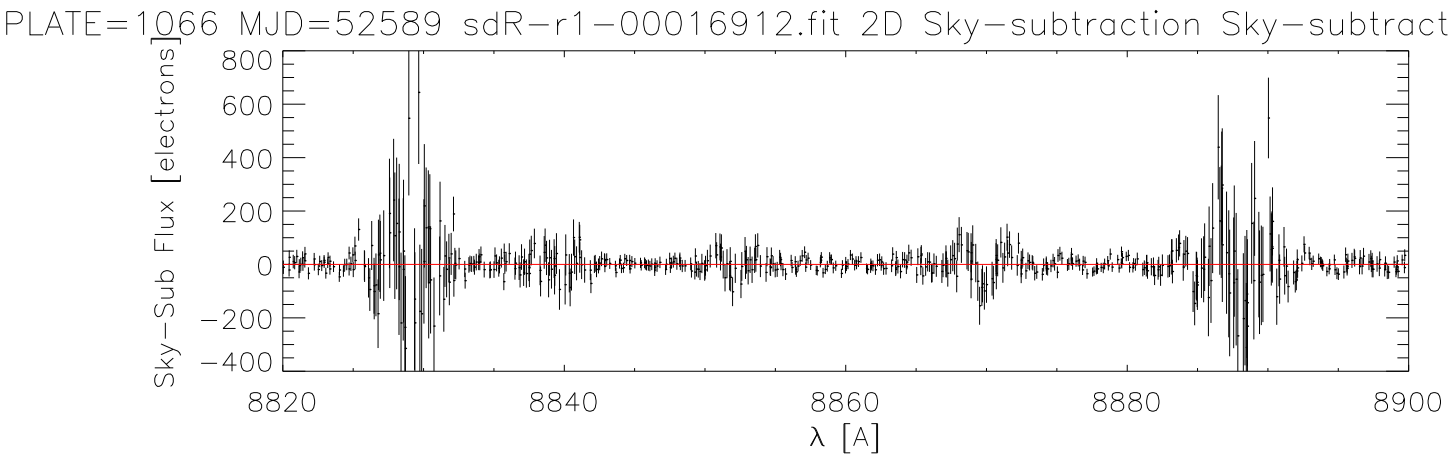

PLATE=1066 MJD=52589 sdR-r1-00016912.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

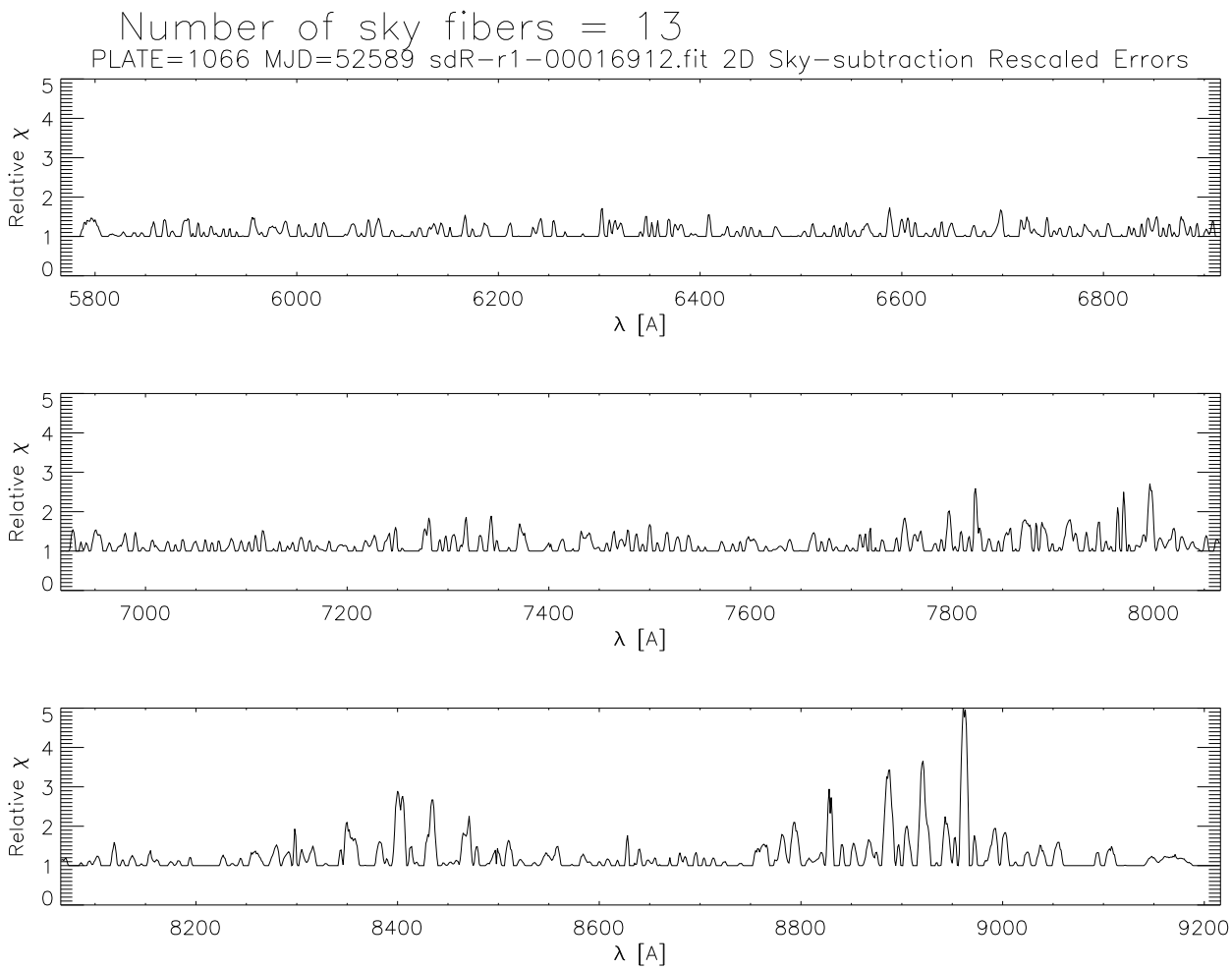

PLATE=1066 MJD=52589 sdR-r1-00016912.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

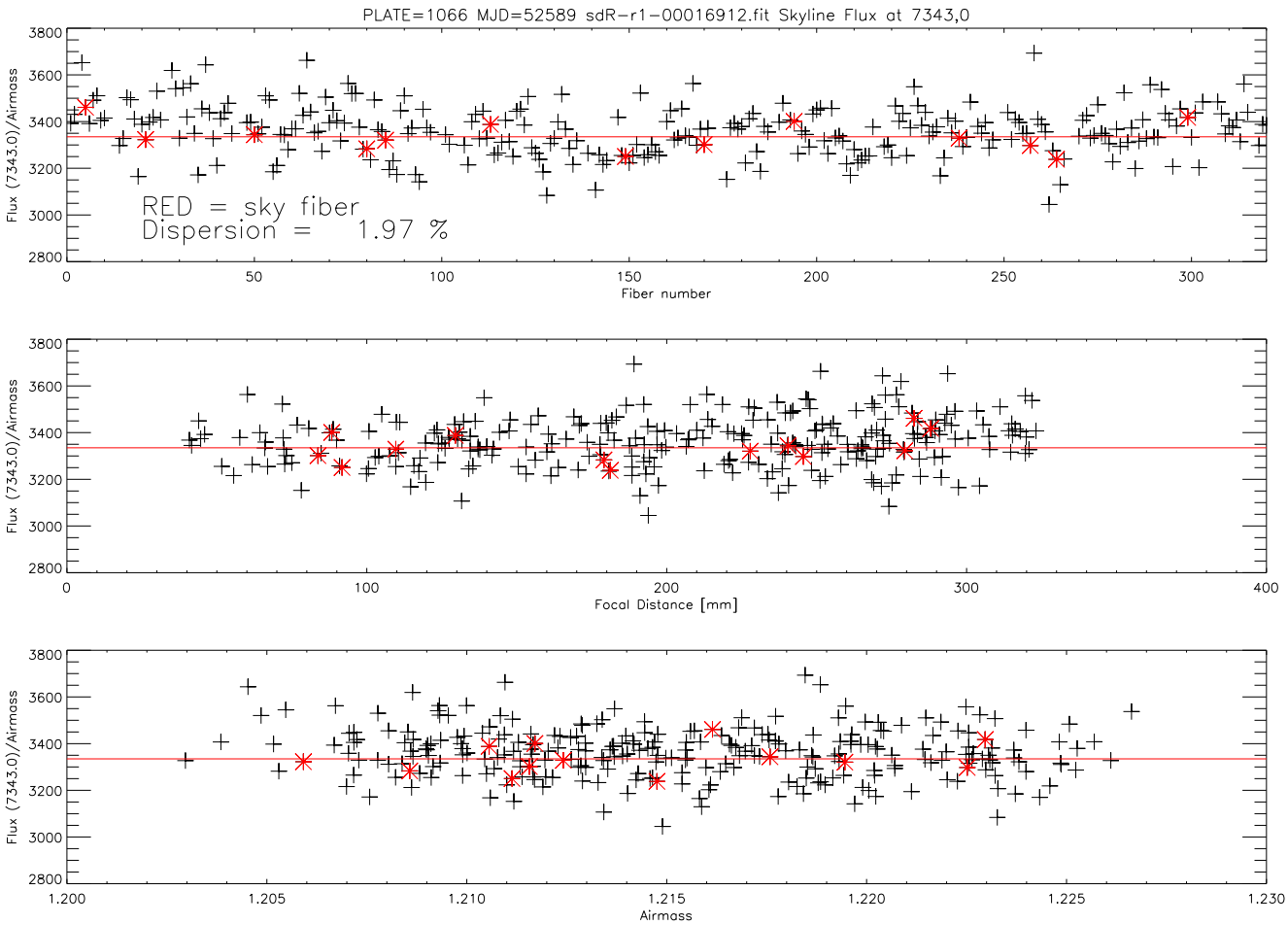

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r1-00016912.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

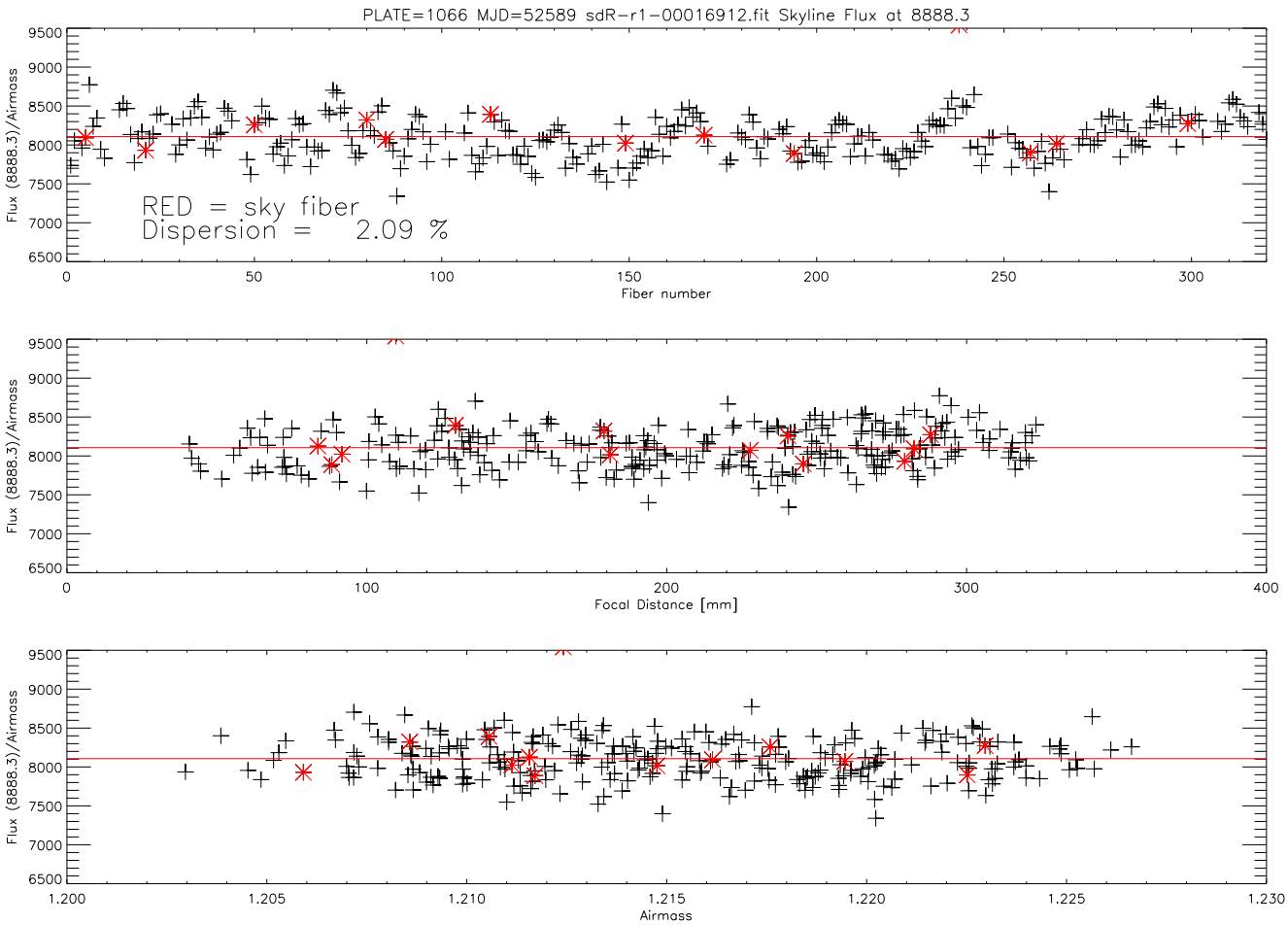

PLATE=1066 MJD=52589 sdR-r1-00016912.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

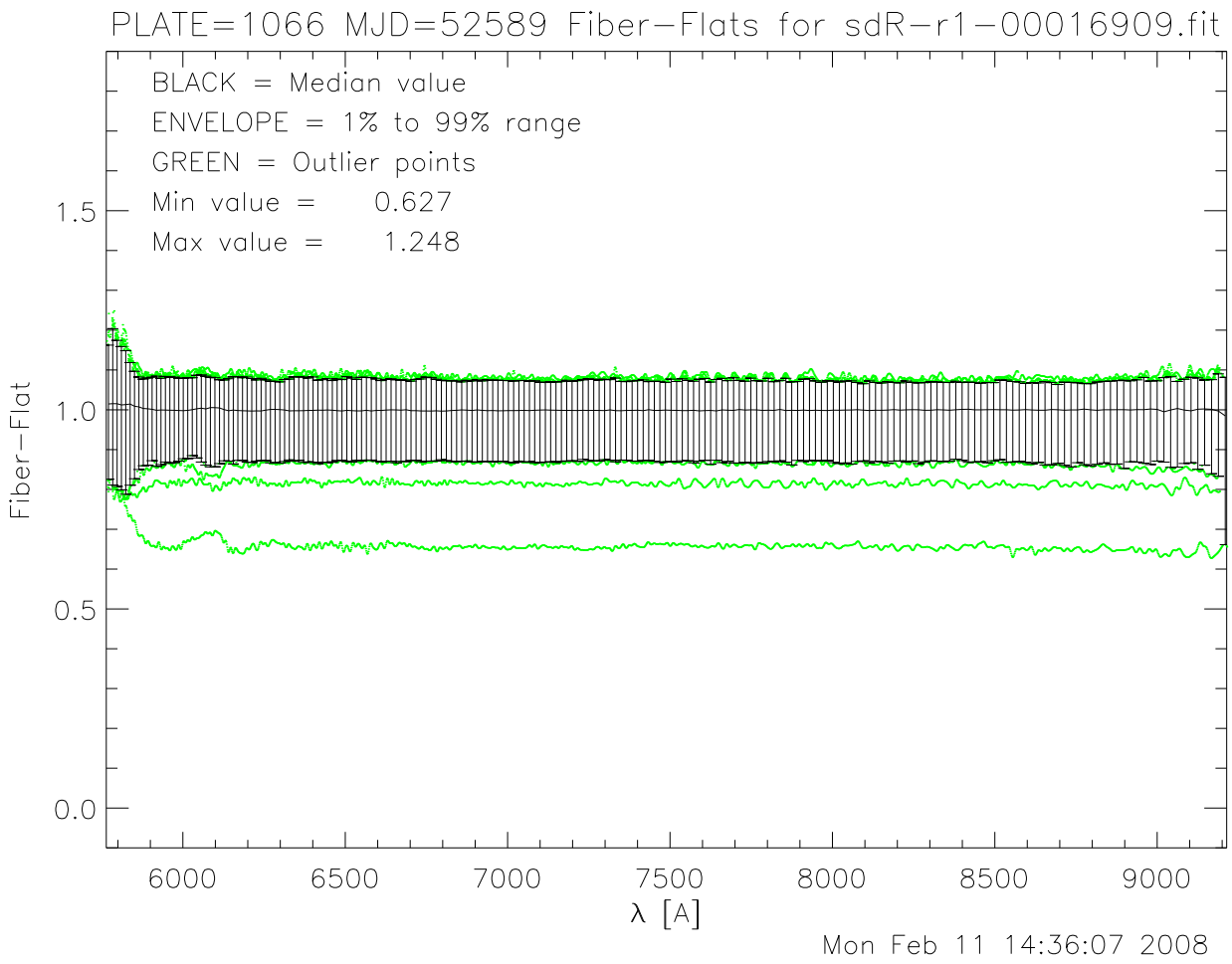

PLATE=1066 MJD=52589 sdR-r1-00016912.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

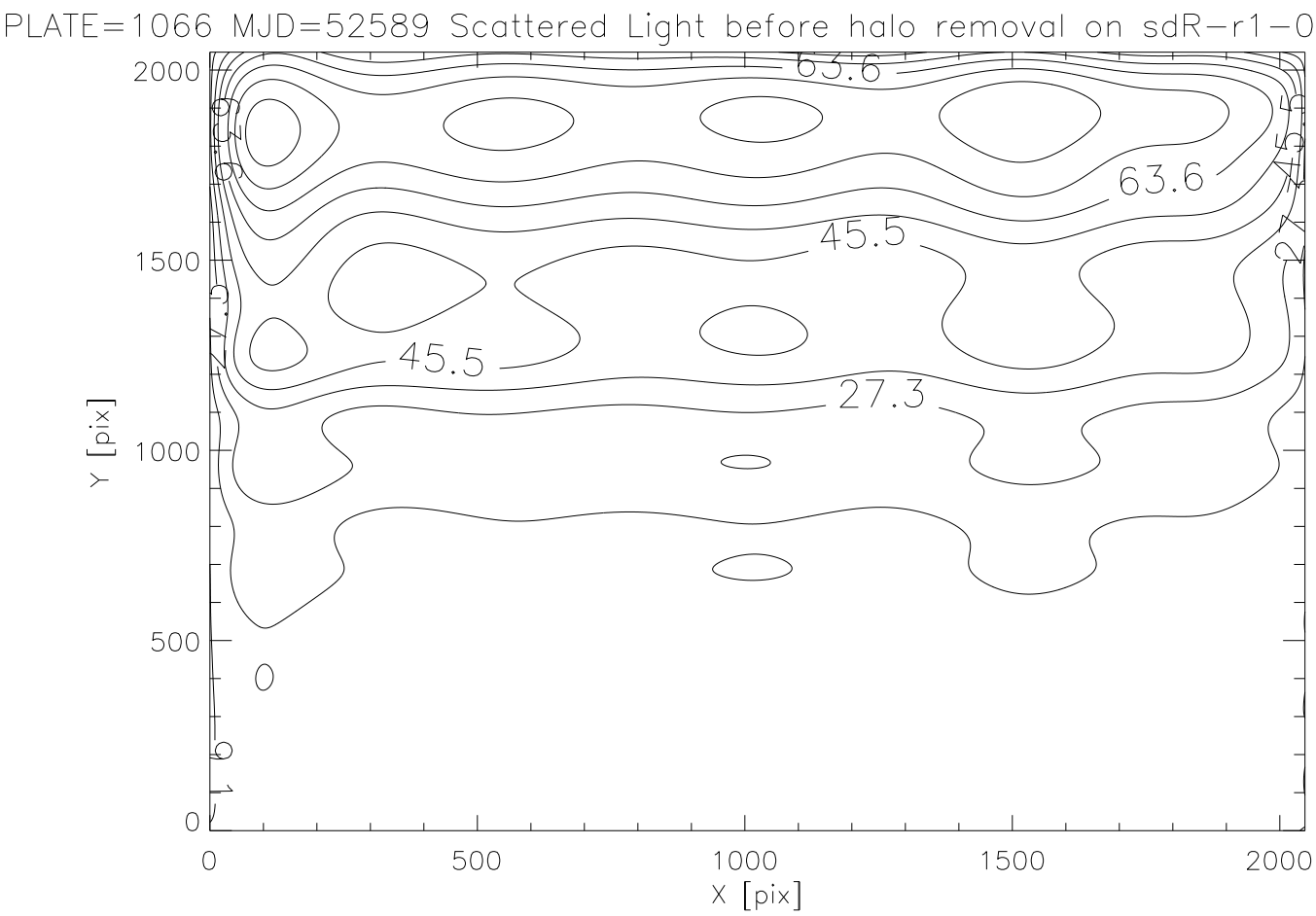

PLATE=1066 MJD=52589 sdR-r1-00016912.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

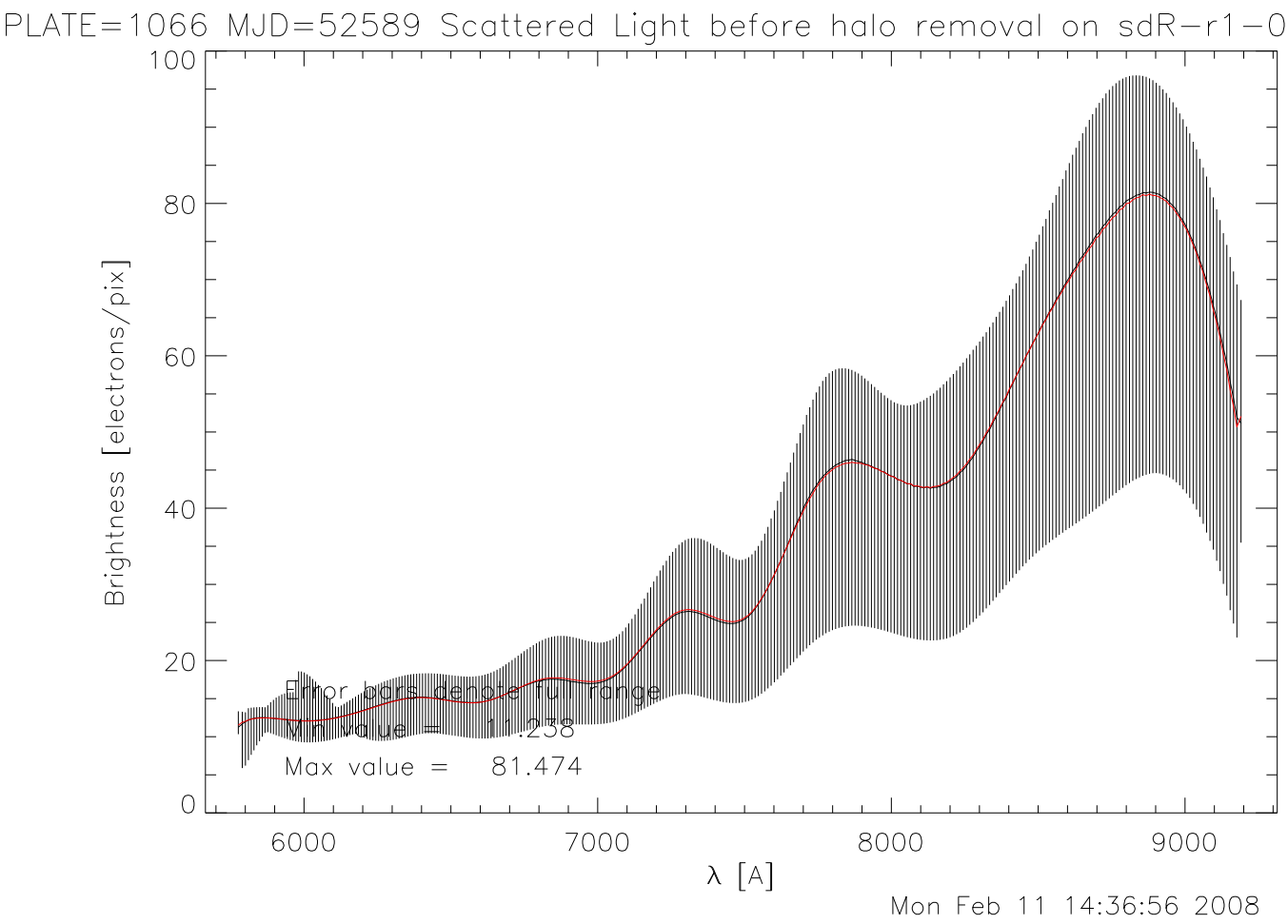

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r1-00016912.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

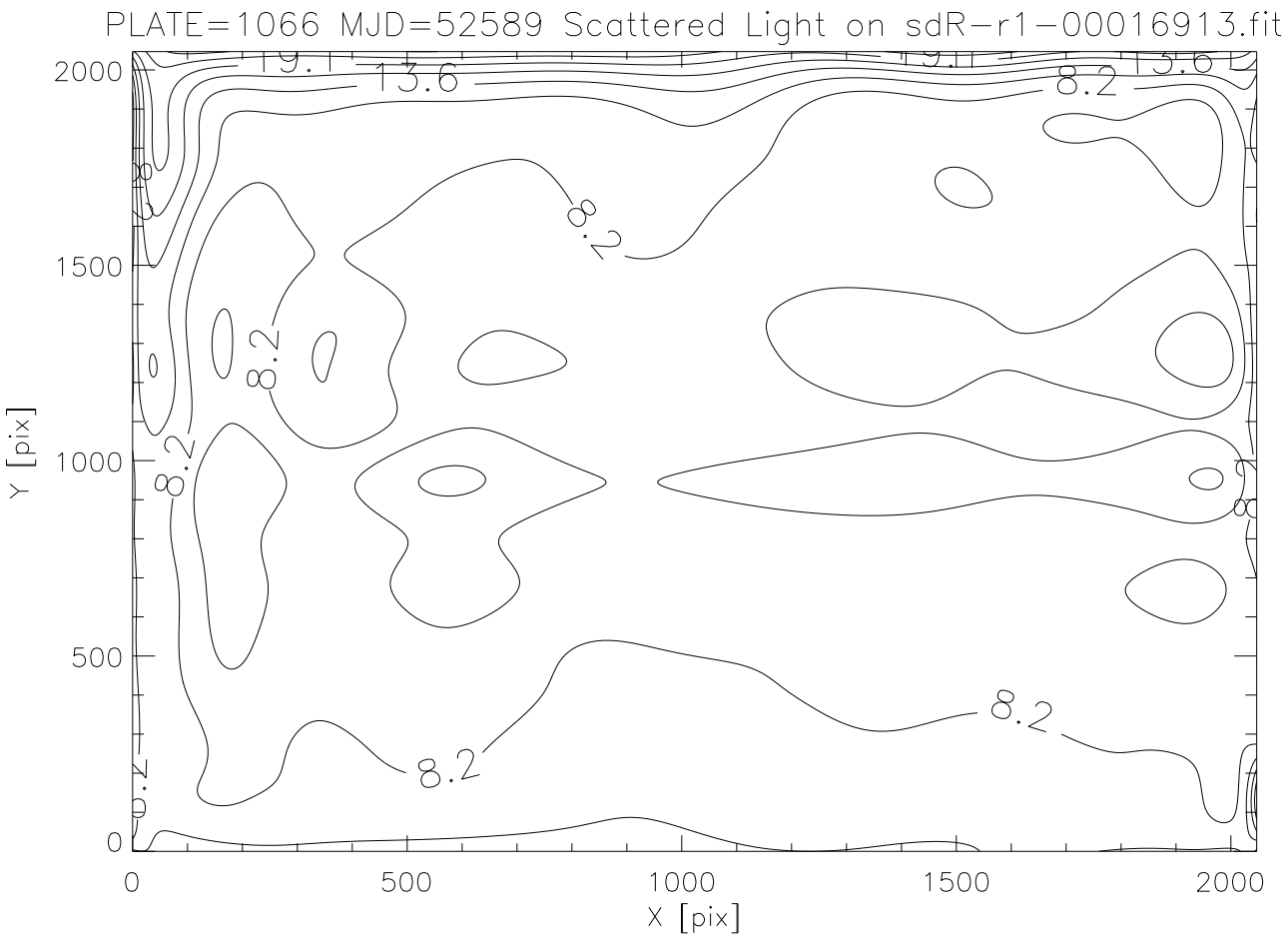

PLATE=1066 MJD=52589 sdR-r1-00016912.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.97 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

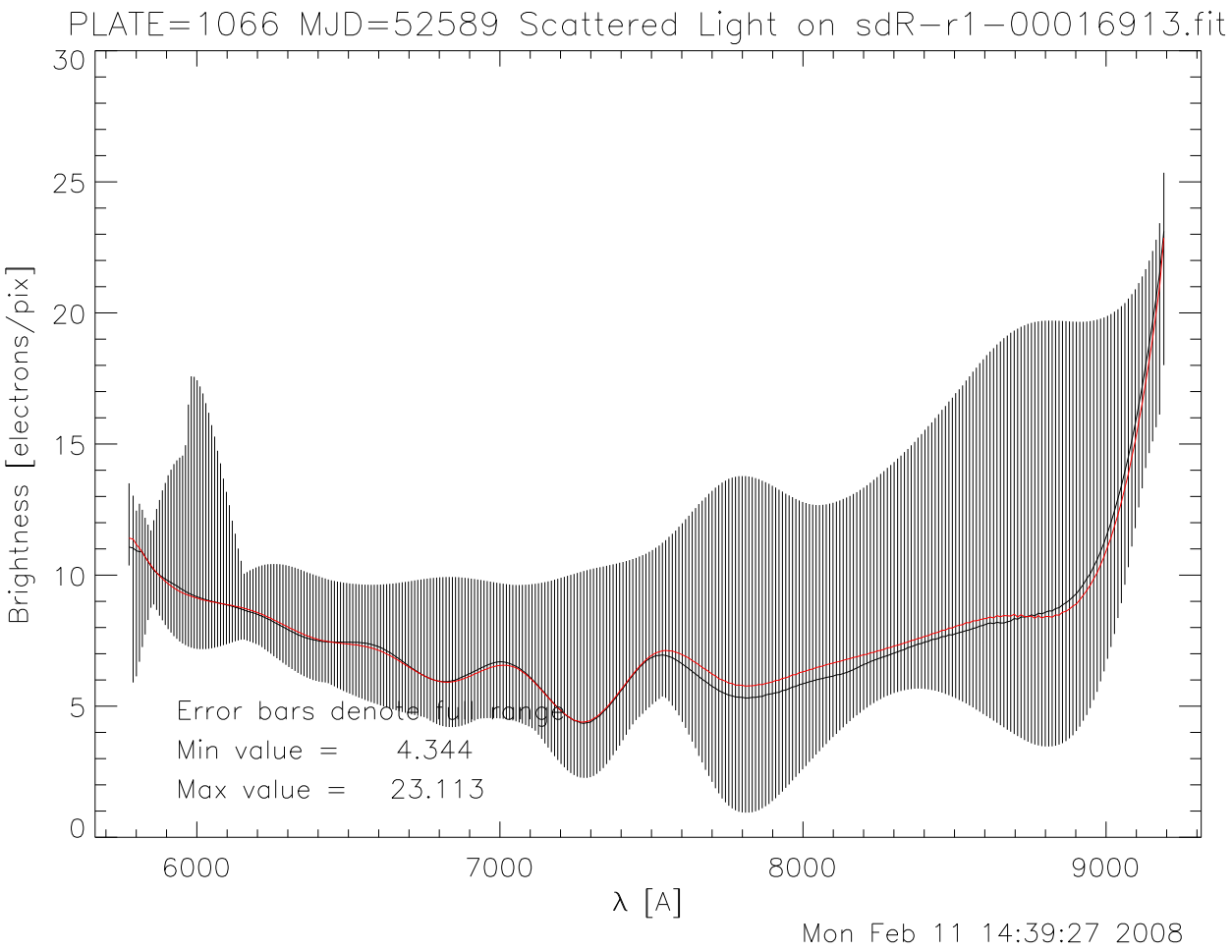

PLATE=1066 MJD=52589 sdR-r1-00016912.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.09 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

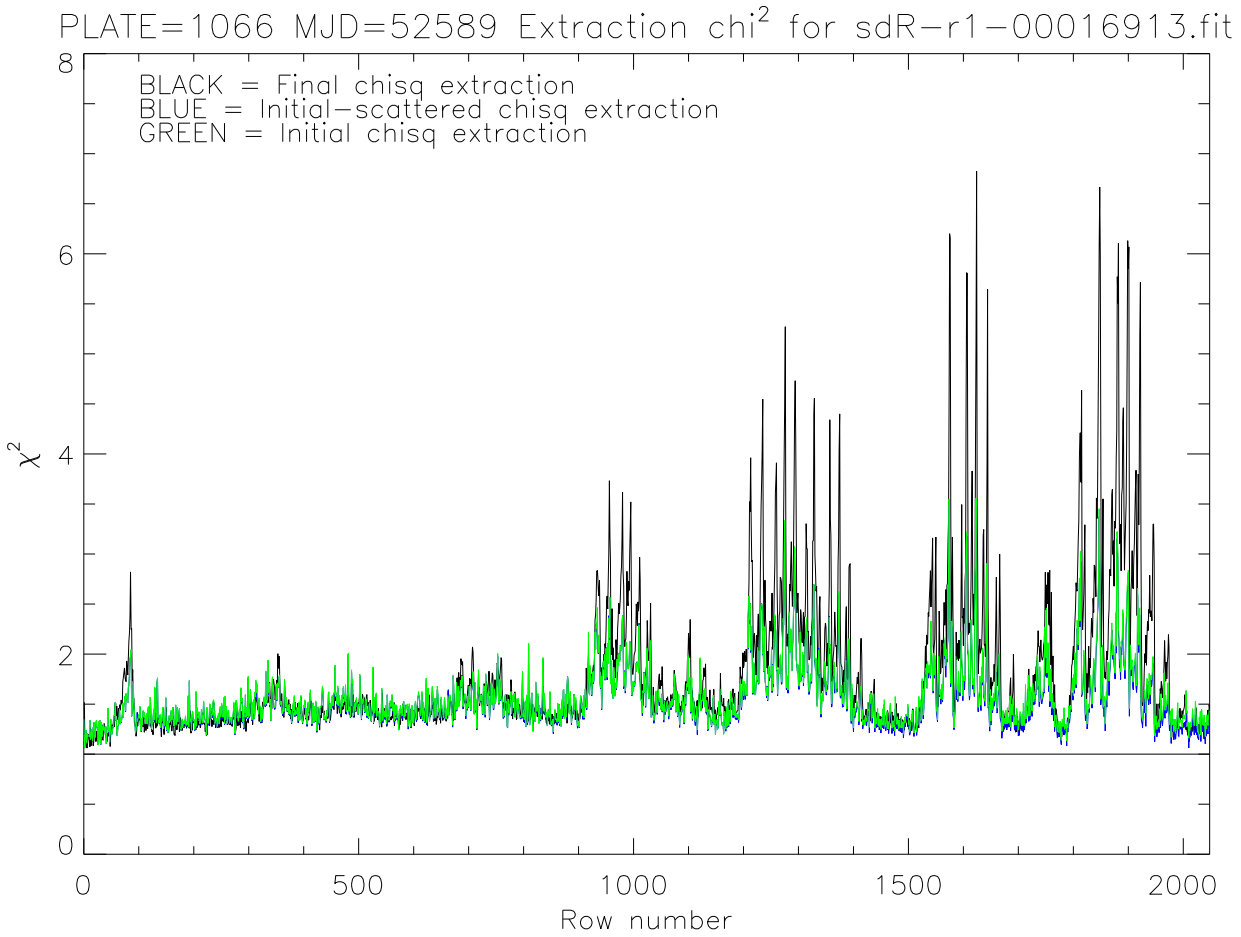

PLATE=1066 MJD=52589 Fiber−Flats for sdR−r1−00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.627
Max value = 1.248
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 14:36:07 2008

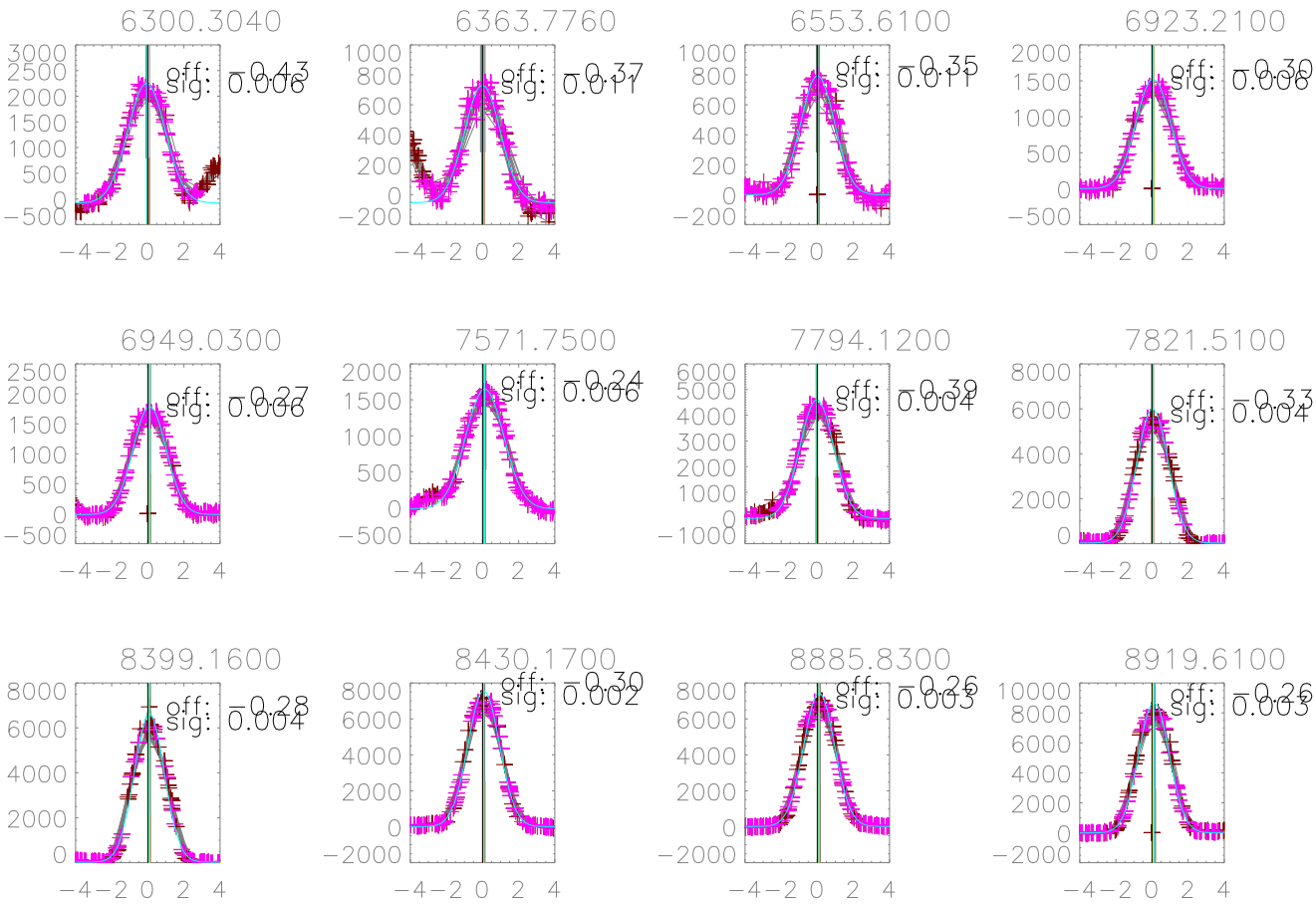

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r1-00016913.fi
63.6
63.6
45.5
45.5
27.3
0
Y [pix]
X [pix]
0
500
1000
1500
2000

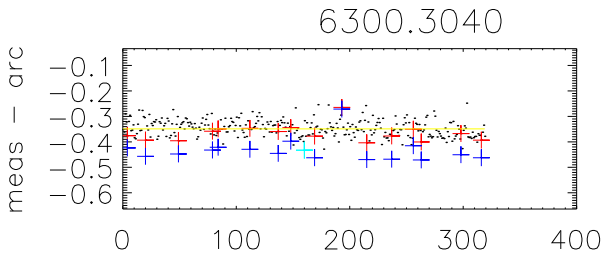

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r1-00016913.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.1238
Max value = 81.474
Mon Feb 11 14:36:56 2008

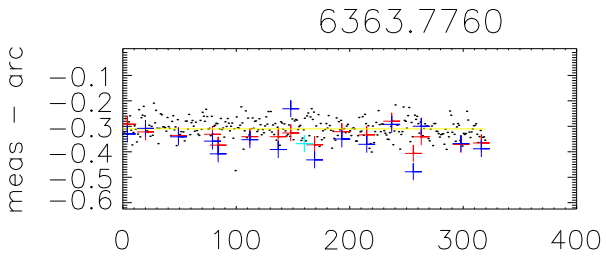

PLATE=1066 MJD=52589 Scattered Light on sdR-r1-00016913.fit
19.1
13.6
8.2
0
500
1000
1500
2000
Y [pix]
X [pix]

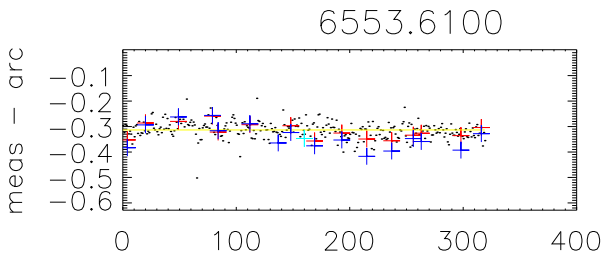

PLATE=1066 MJD=52589 Scattered Light on sdR-r1-00016913.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.344
Max value = 23.113
Mon Feb 11 14:39:27 2008

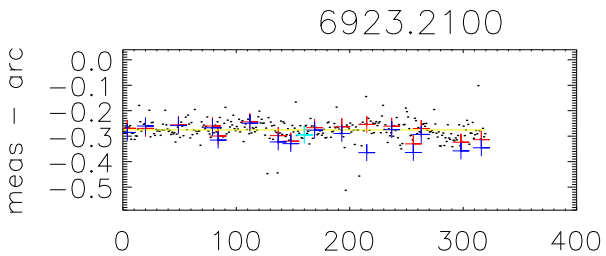

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-r1-00016913.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

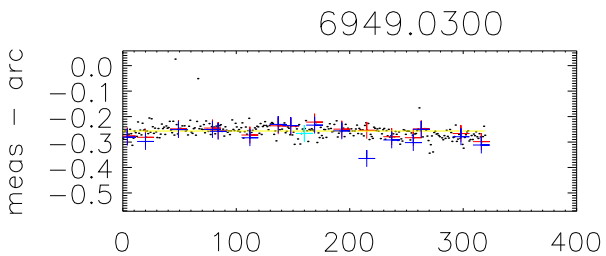

6300.3040
off: −0.43
sig: 0.006
6363.7760
off: −0.37
sig: 0.011
6553.6100
off: −0.35
sig: 0.011
6923.2100
off: −0.30
sig: 0.006
6949.0300
off: −0.27
sig: 0.006
7571.7500
off: −0.24
sig: 0.006
7794.1200
off: −0.39
sig: 0.004
7821.5100
off: −0.33
sig: 0.004
8399.1600
off: −0.28
sig: 0.004
8430.1700
off: −0.30
sig: 0.002
8885.8300
off: −0.26
sig: 0.003
8919.6100
off: −0.26
sig: 0.003

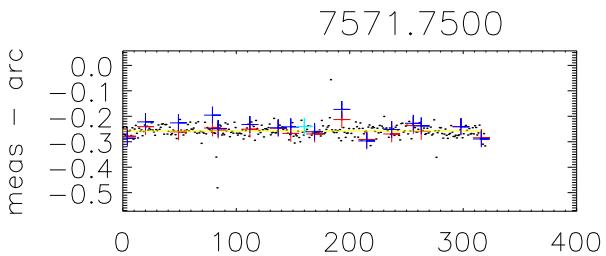

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

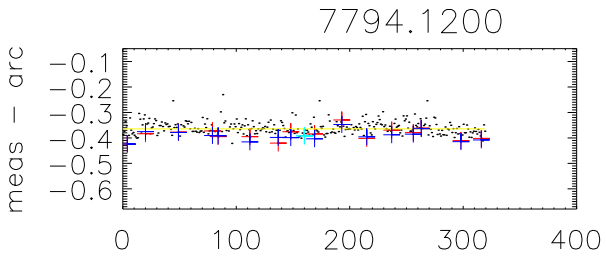

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

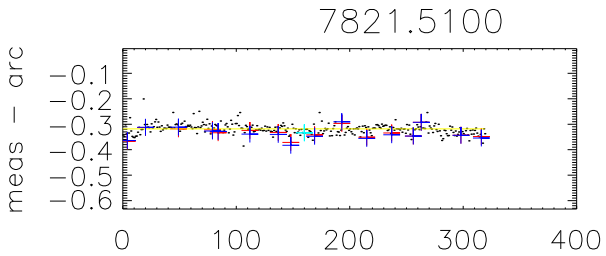

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

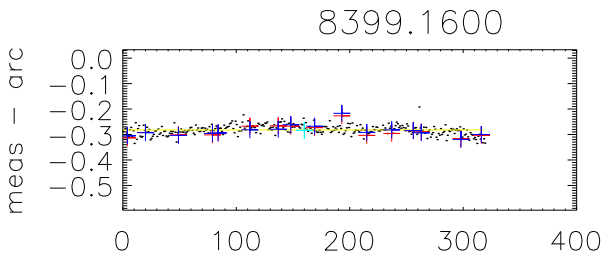

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

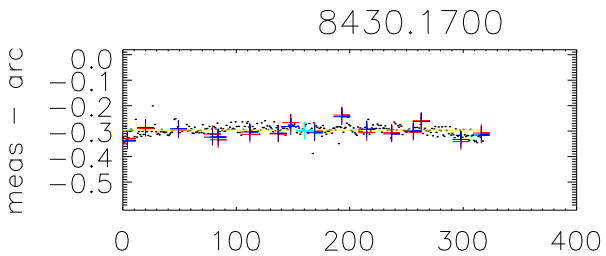

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

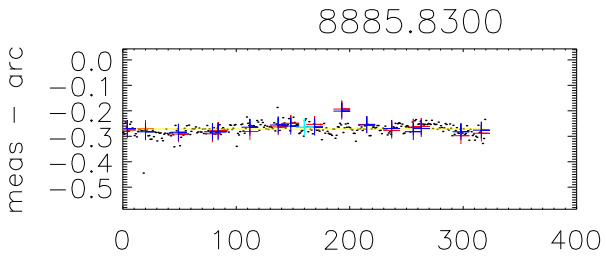

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

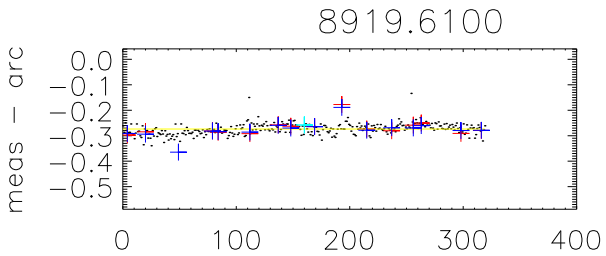

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

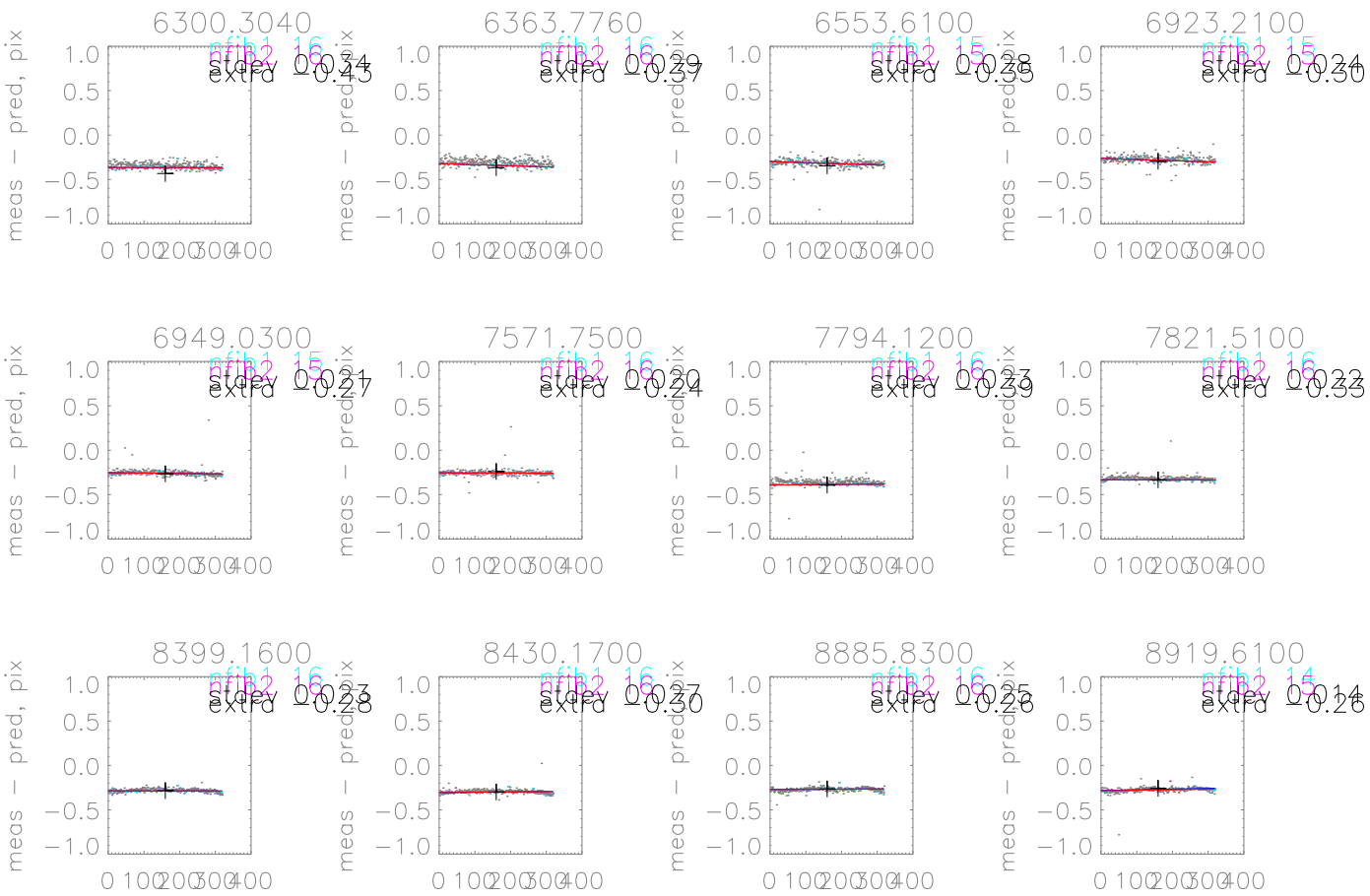

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

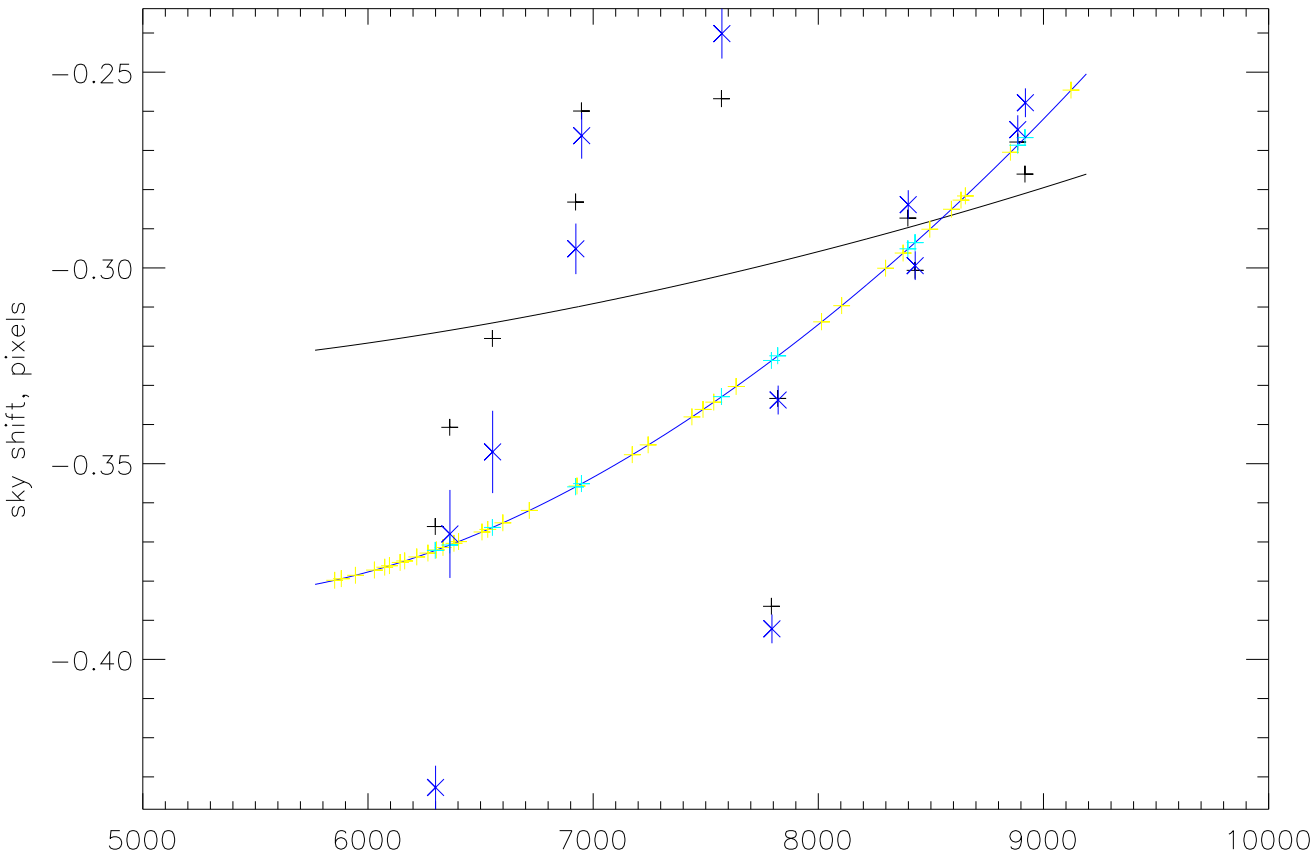

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

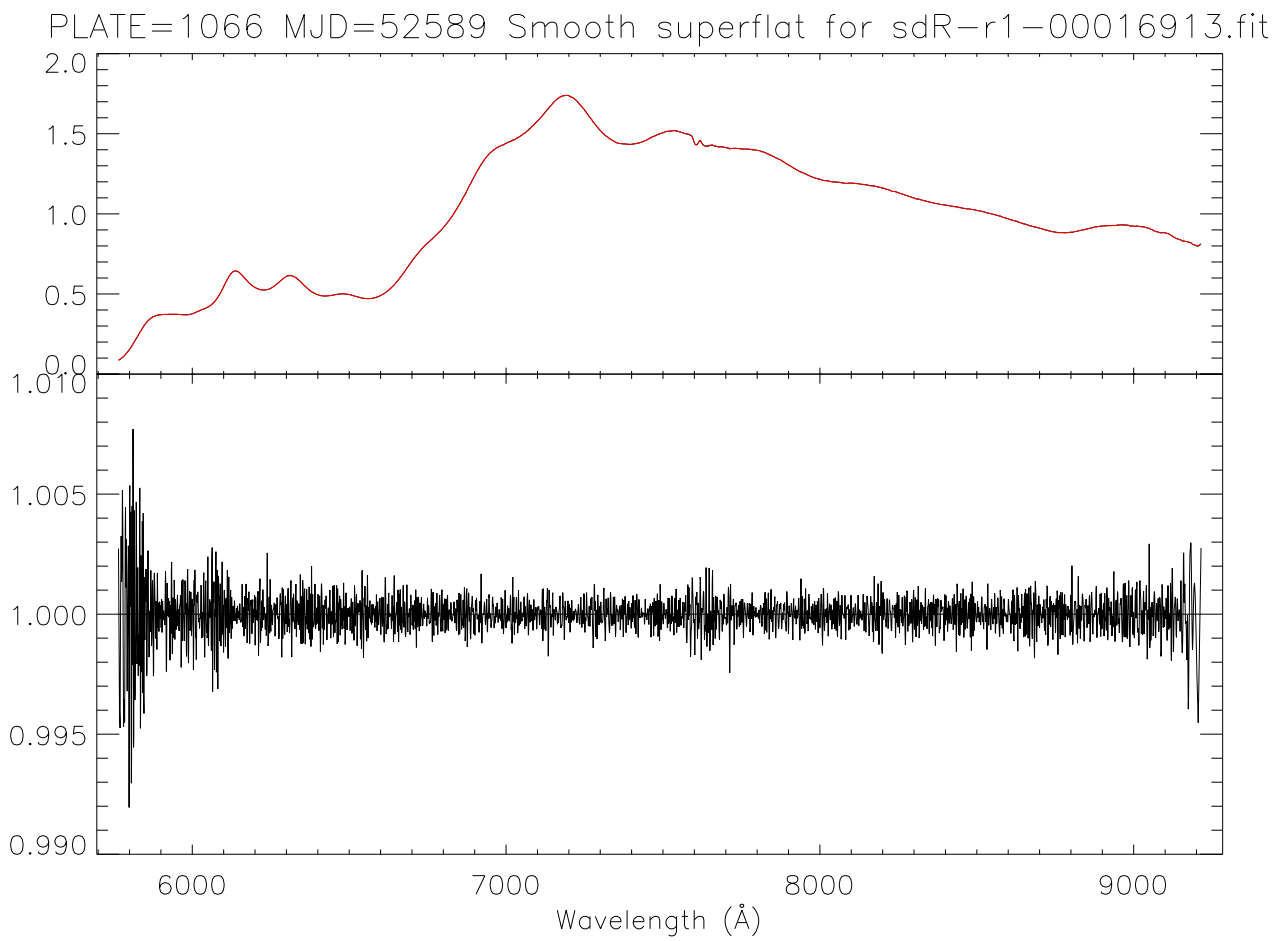

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

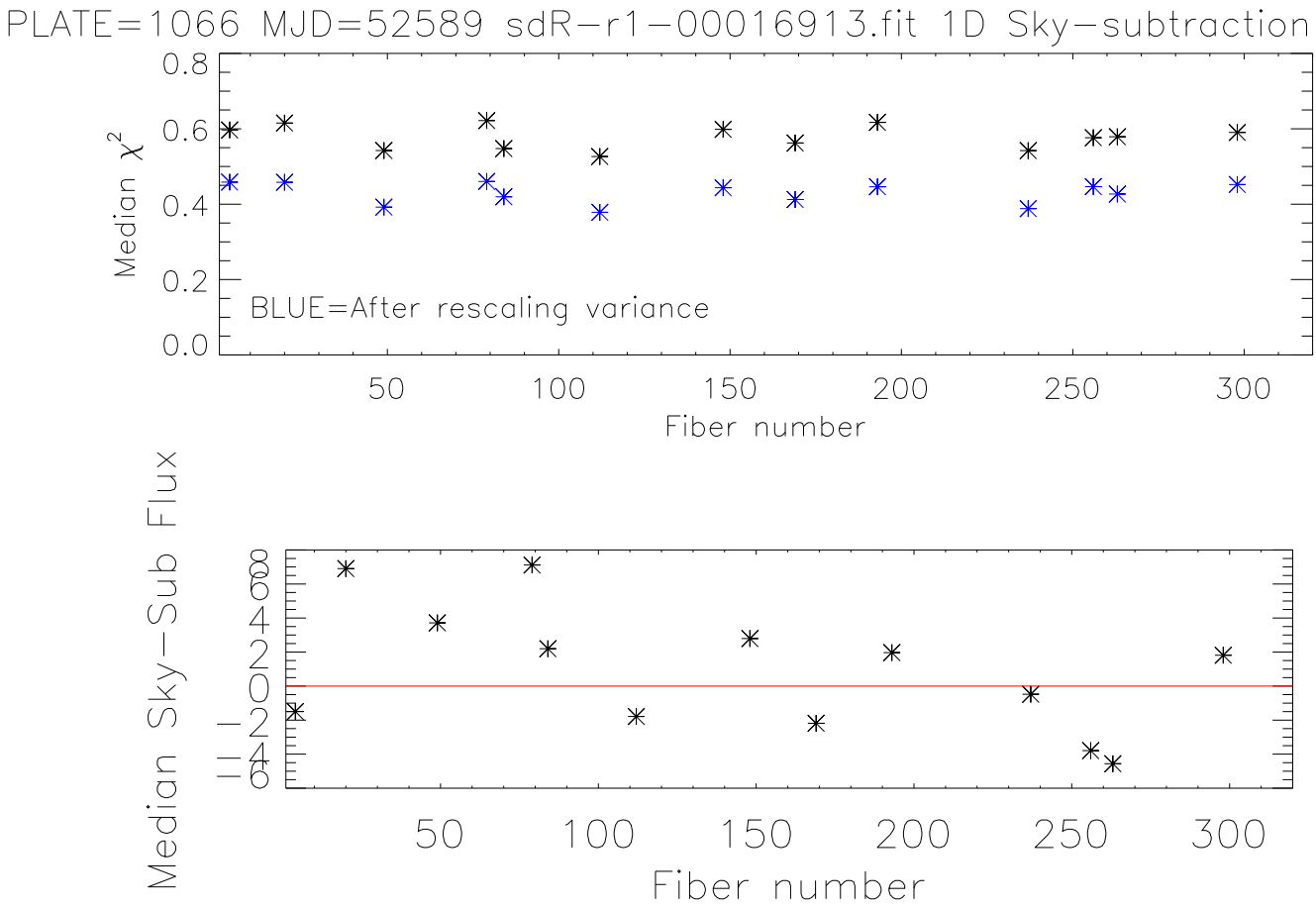

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

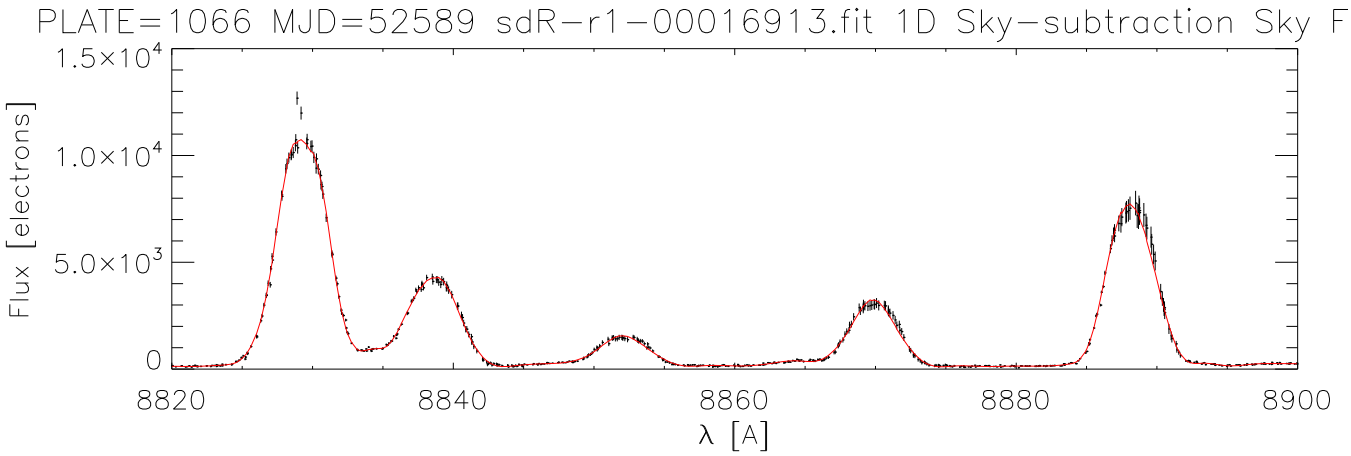

6300.3040
mfhi1 16
mfhi2 15
stdev 0.34
extra −0.45
6363.7760
mfhi1 16
mfhi2 16
stdev 0.29
extra −0.37
6553.6100
mfhi1 16
mfhi2 15
stdev 0.28
extra −0.35
6923.2100
mfhi1 16
mfhi2 15
stdev 0.24
extra −0.30
6949.0300
mfhi1 15
mfhi2 15
stdev 0.21
extra −0.27
7571.7500
mfhi1 16
mfhi2 16
stdev 0.20
extra −0.24
7794.1200
mfhi1 16
mfhi2 16
stdev 0.23
extra −0.29
7821.5100
mfhi1 16
mfhi2 16
stdev 0.22
extra −0.33
8399.1600
mfhi1 16
mfhi2 16
stdev 0.23
extra −0.28
8430.1700
mfhi1 16
mfhi2 16
stdev 0.27
extra −0.30
8885.8300
mfhi1 16
mfhi2 16
stdev 0.25
extra −0.28
8919.6100
mfhi1 14
mfhi2 15
stdev 0.14
extra −0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

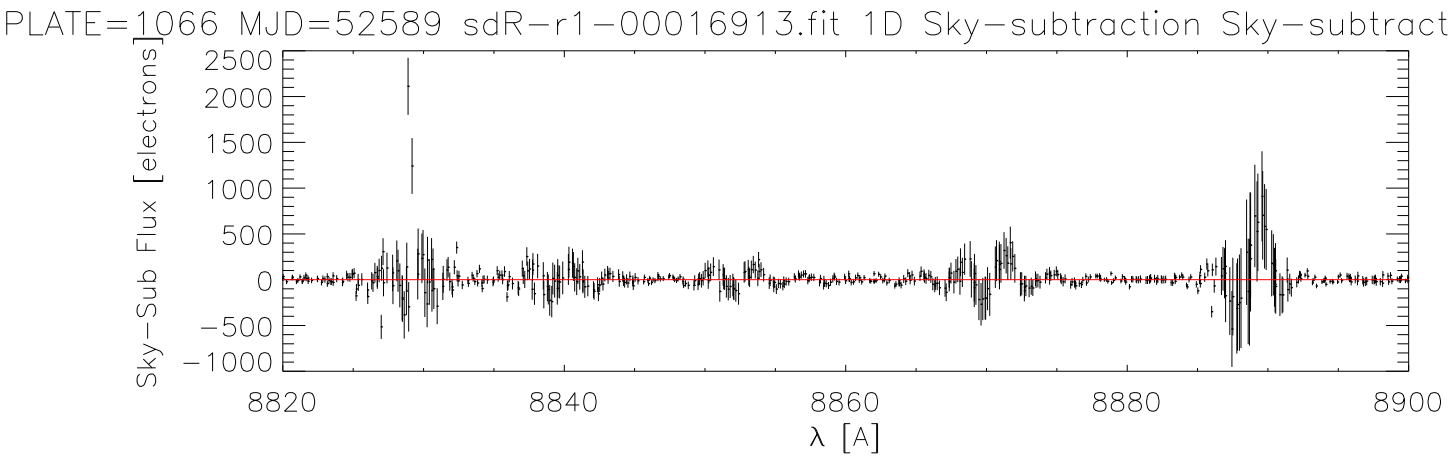

−0.25
−0.30
−0.35
−0.40
sky shift, pixels
5000
6000
7000
8000
9000
10000

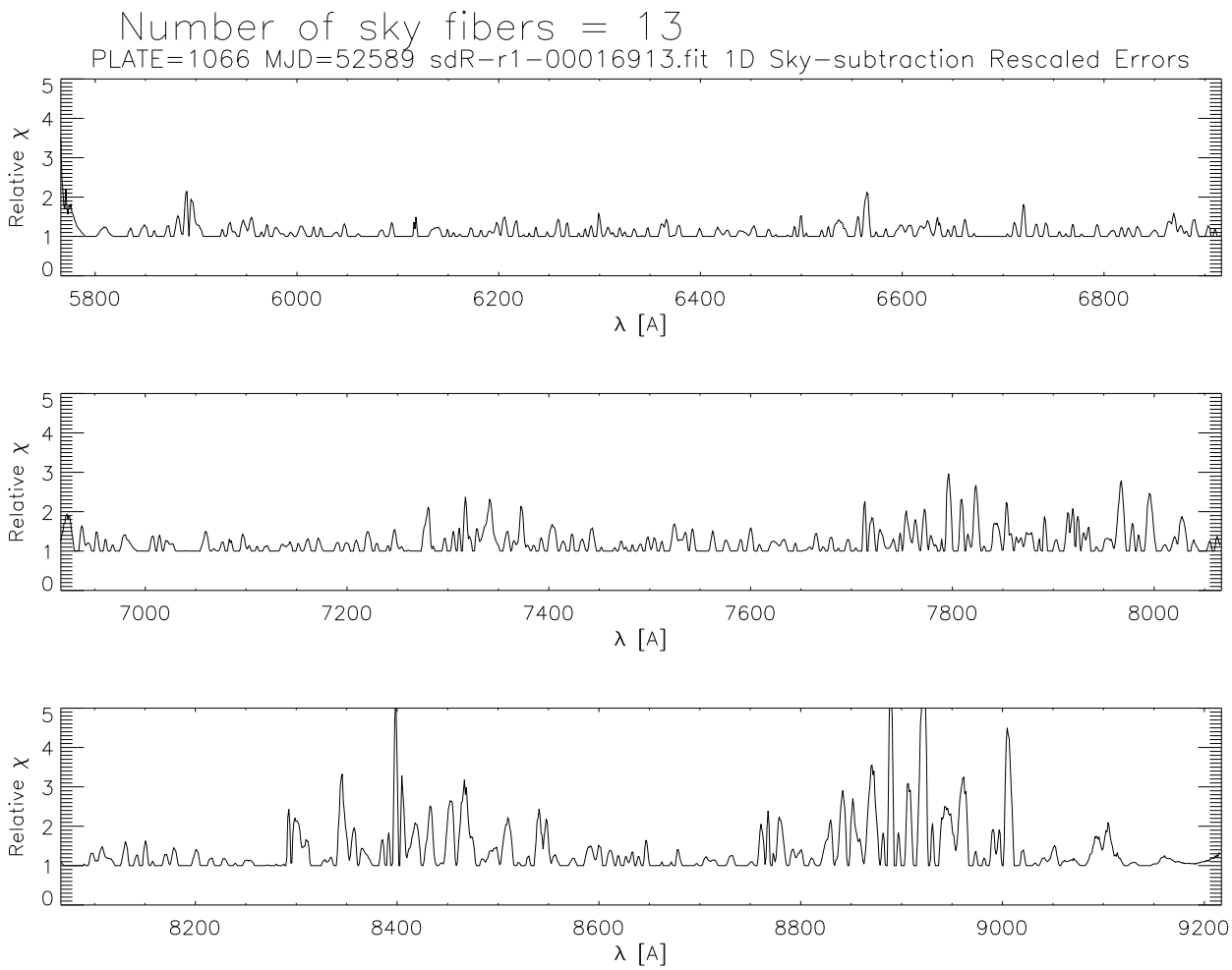
es= 0.0000

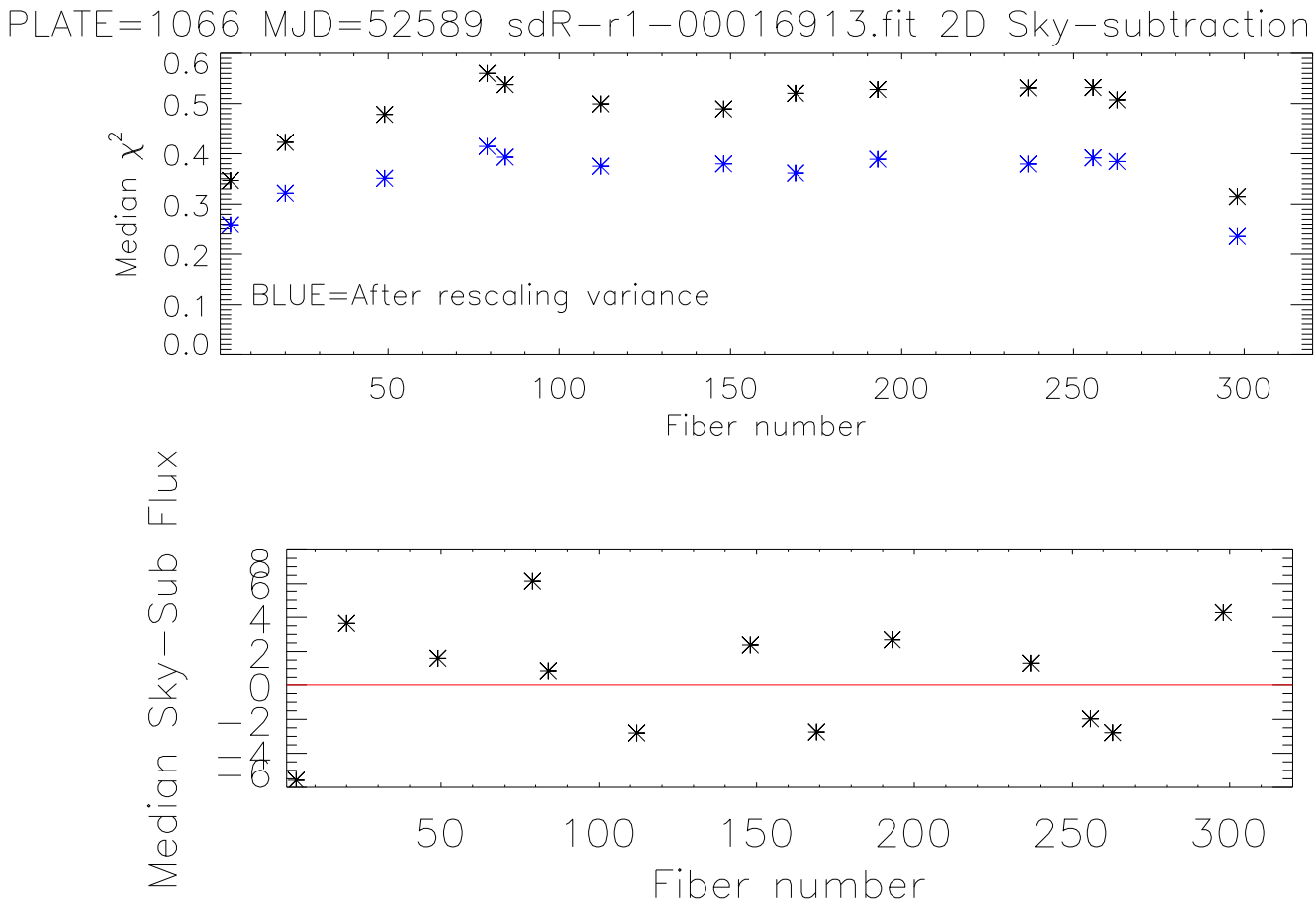

PLATE=1066 MJD=52589 Smooth superflat for sdR-r1-00016913.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

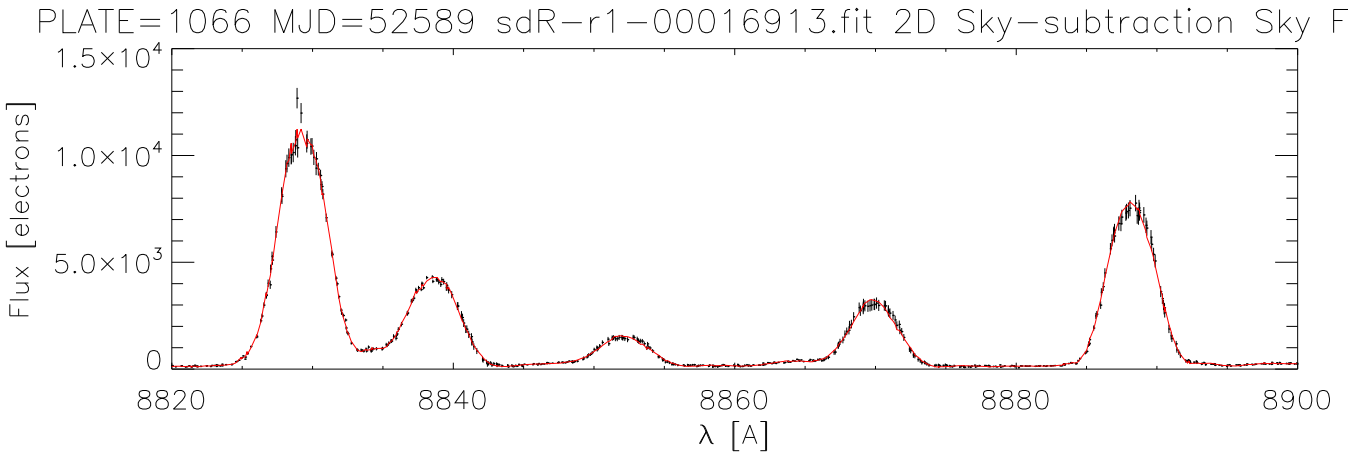

PLATE=1066 MJD=52589 sdR-r1-00016913.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6e-11
-4e-11
-2e-11
0
2e-11
4e-11
6e-11
50
100
150
200
250
300
Fiber number

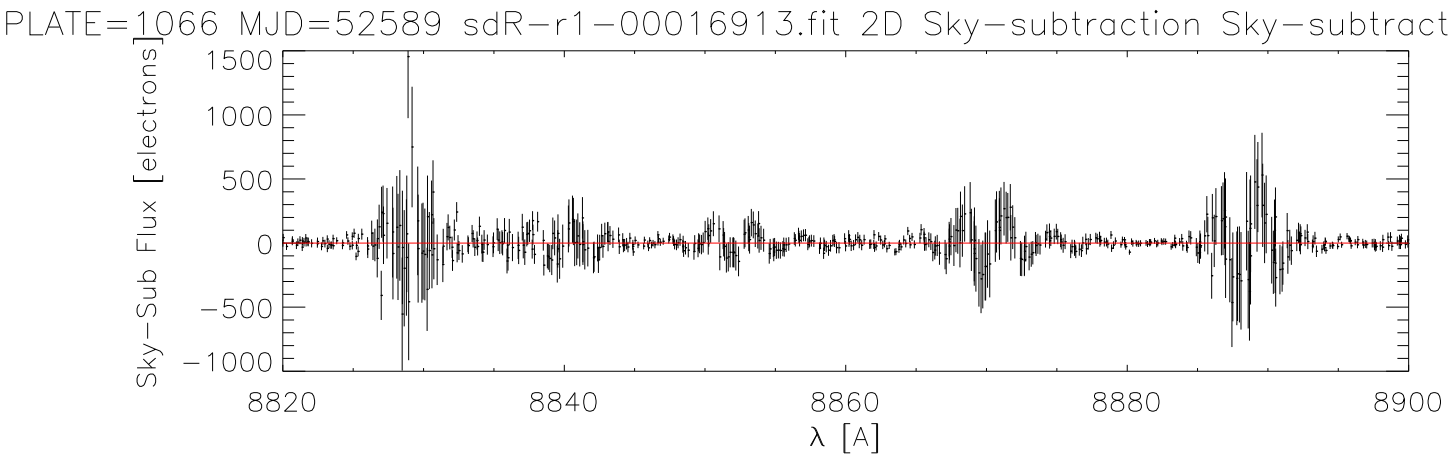

PLATE=1066 MJD=52589 sdR-r1-00016913.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
8820
8840
8860
8880
8900
λ [A]

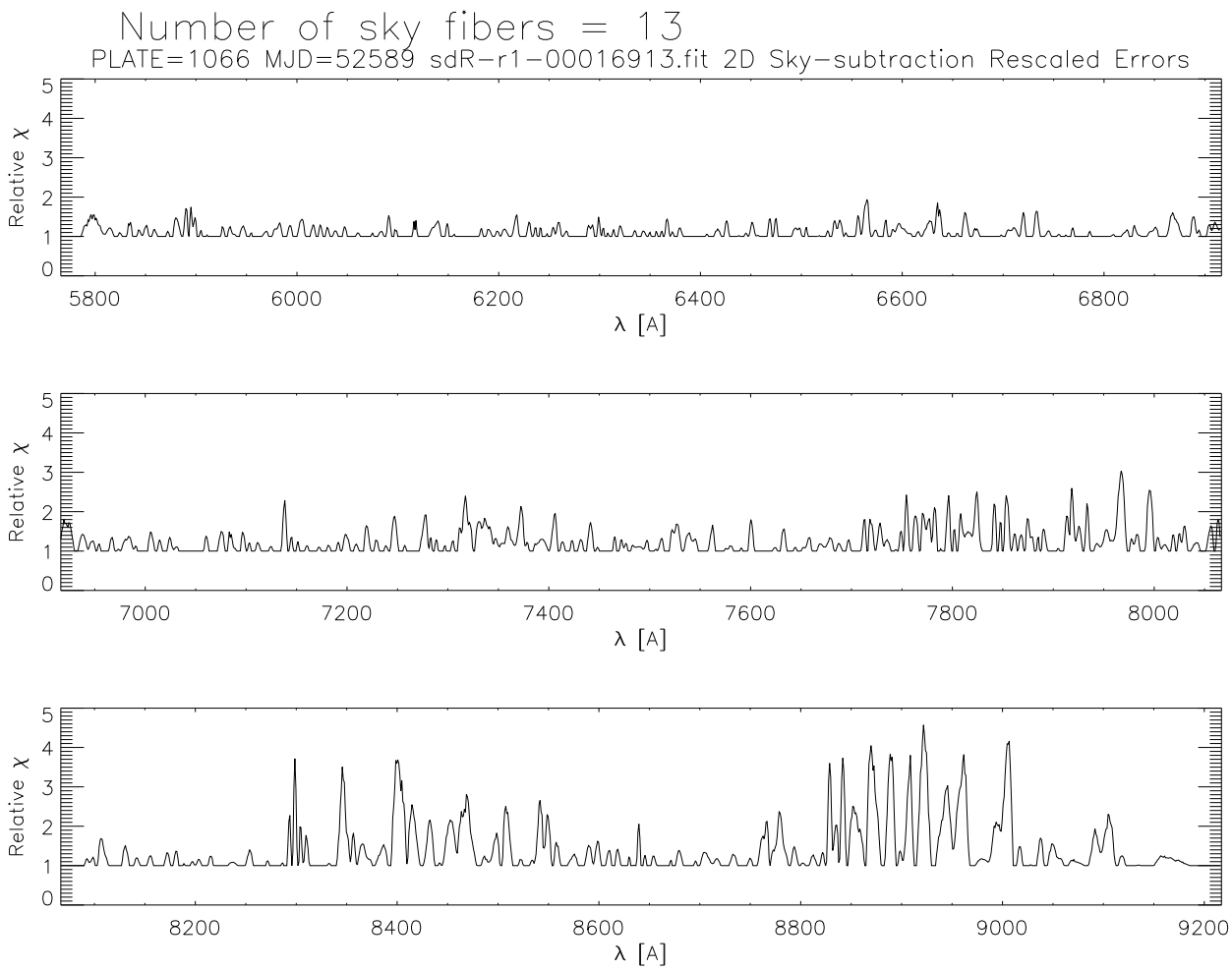

PLATE=1066 MJD=52589 sdR-r1-00016913.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
−500
−1000
8820
8840
8860
8880
8900
λ [A]

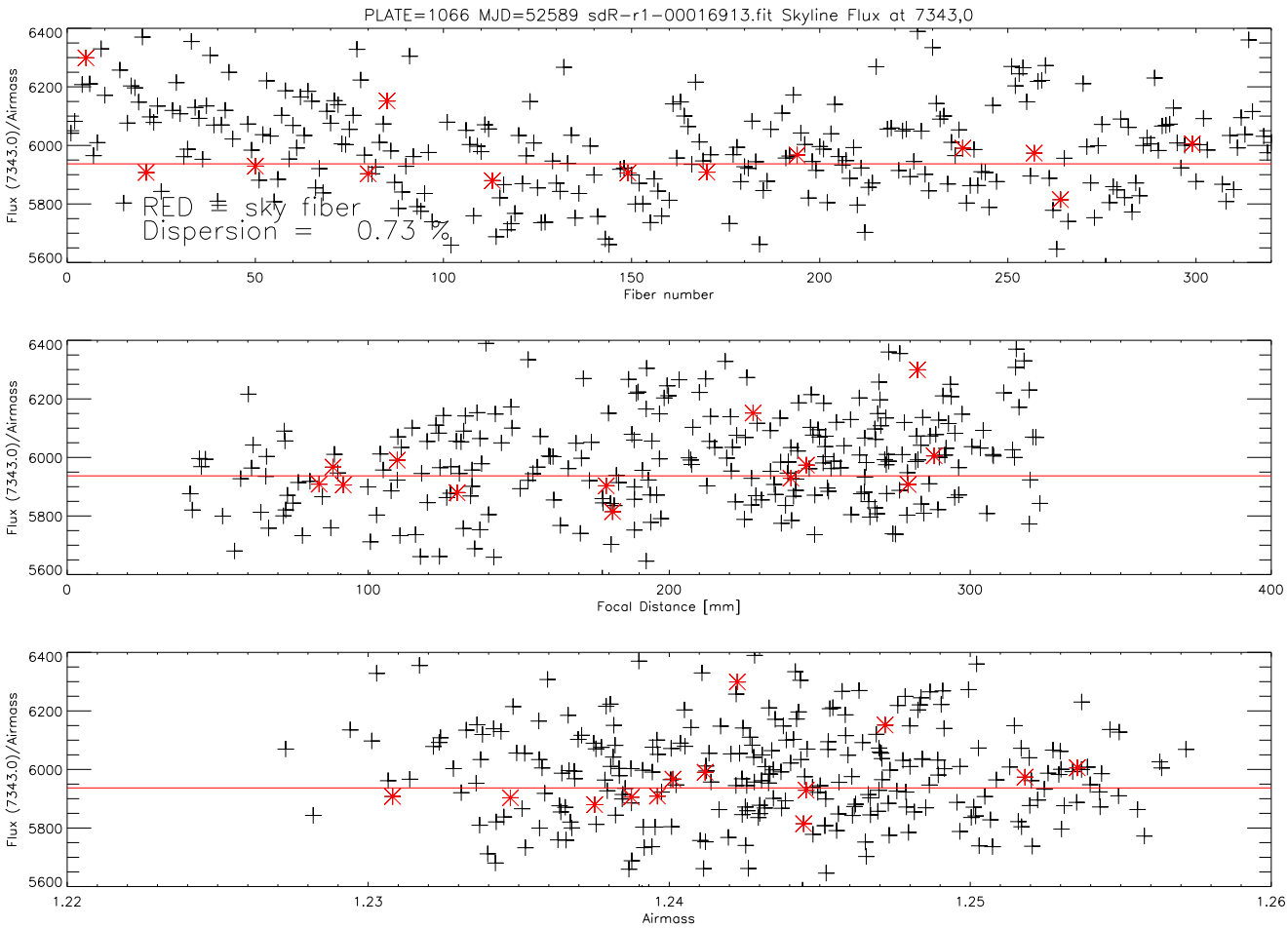

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r1-00016913.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

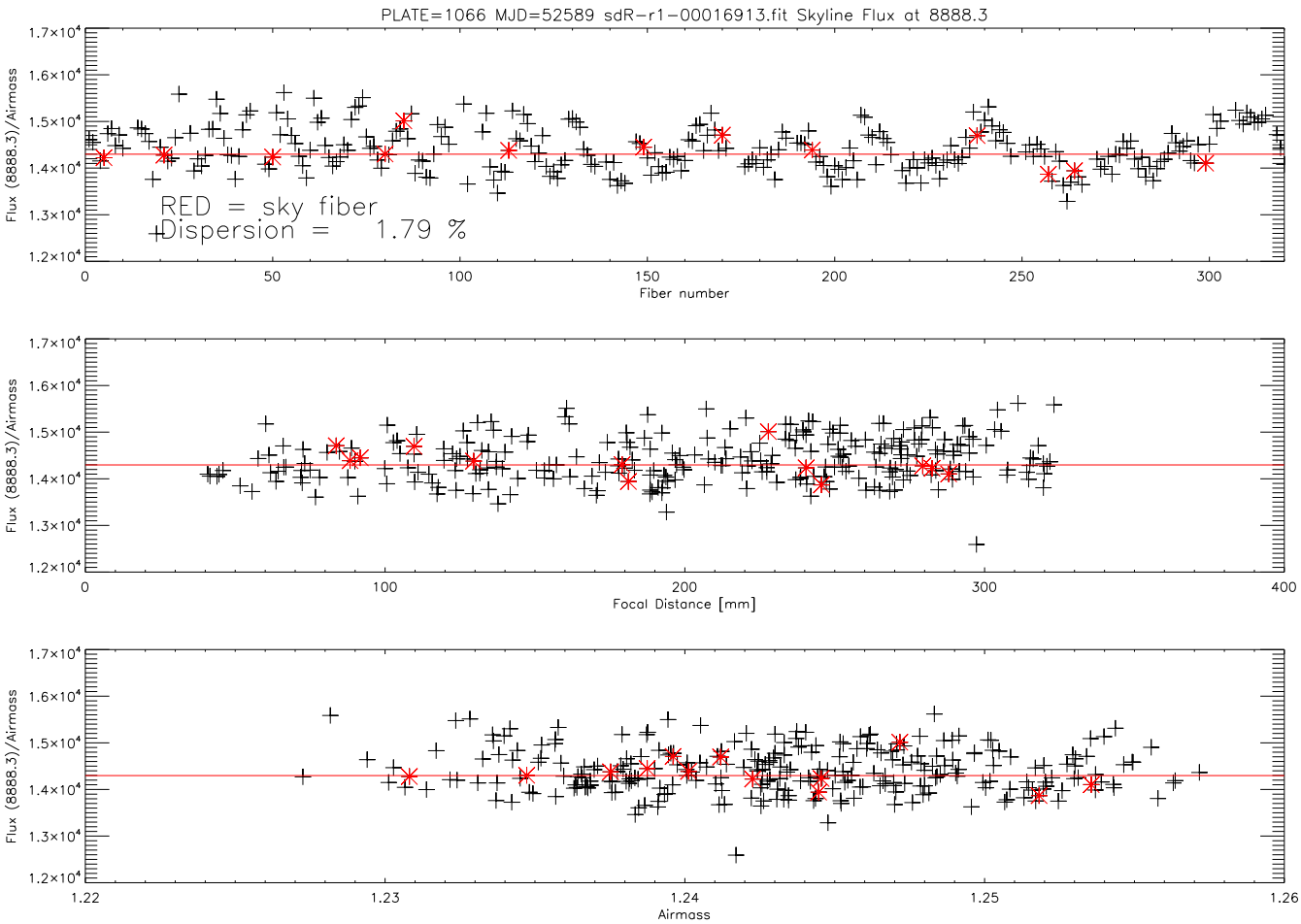

PLATE=1066 MJD=52589 sdR-r1-00016913.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

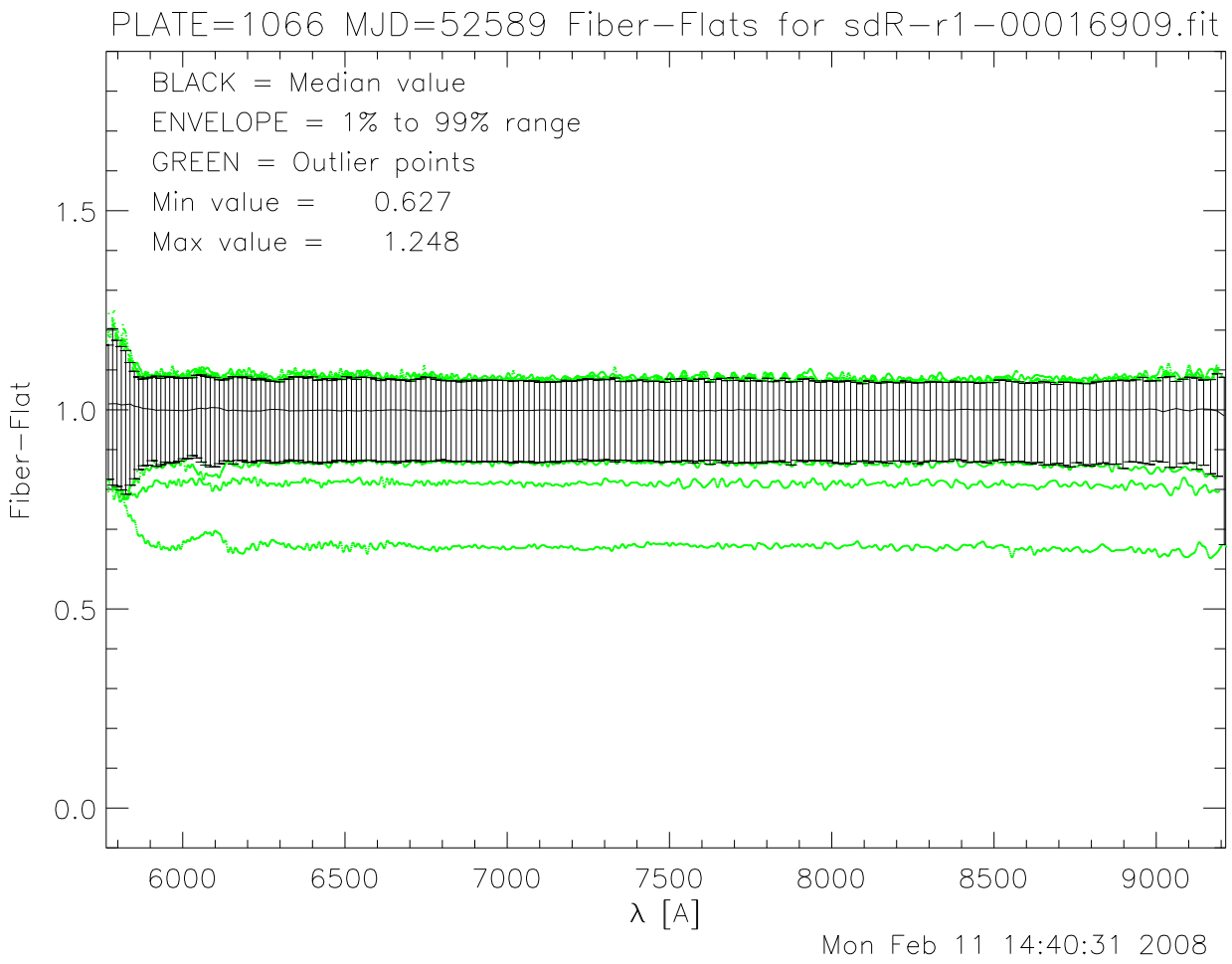

PLATE=1066 MJD=52589 sdR-r1-00016913.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
8820
8840
8860
8880
8900
λ [A]

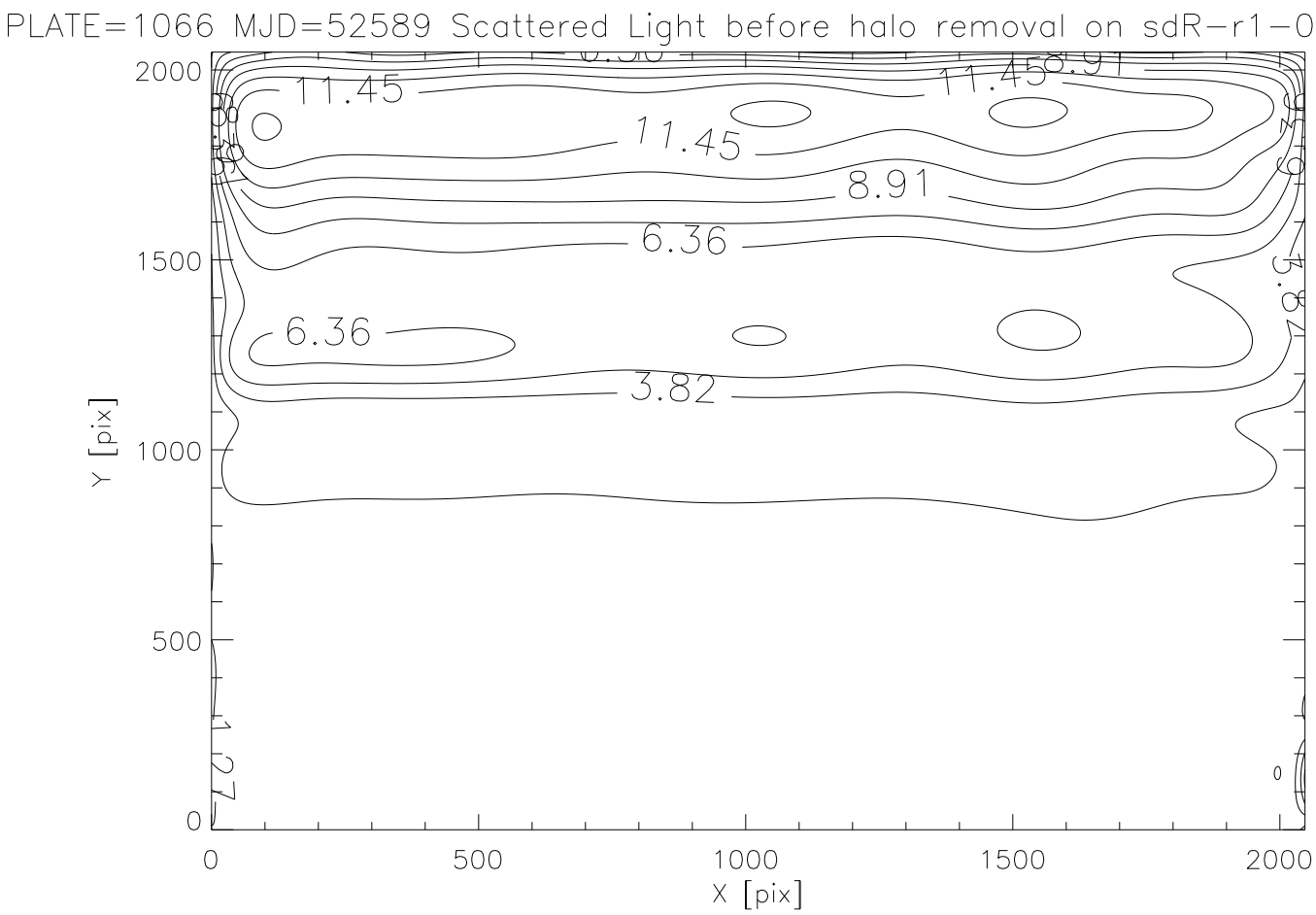

PLATE=1066 MJD=52589 sdR-r1-00016913.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
8820
8840
8860
8880
8900
λ [A]

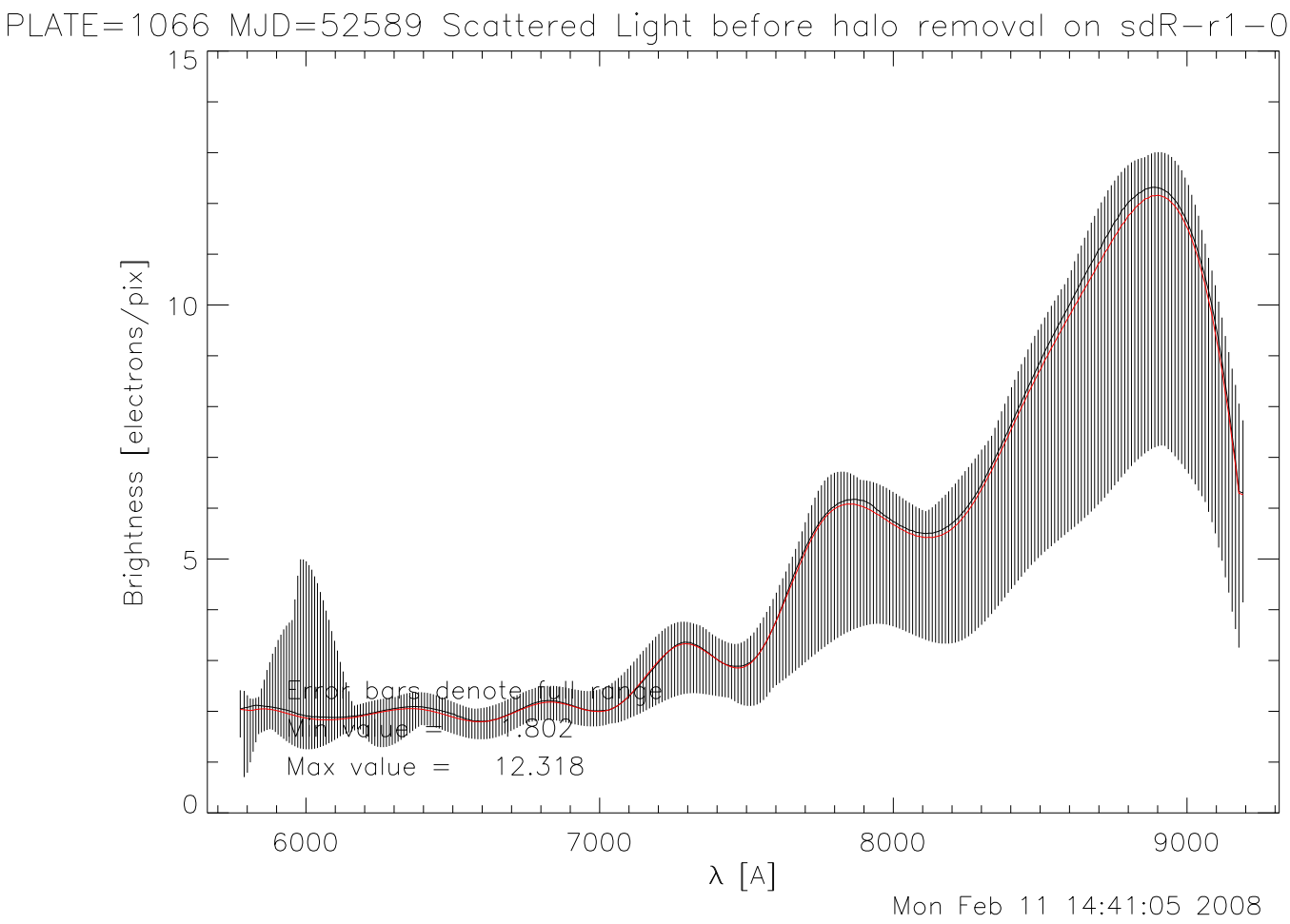

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r1-00016913.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

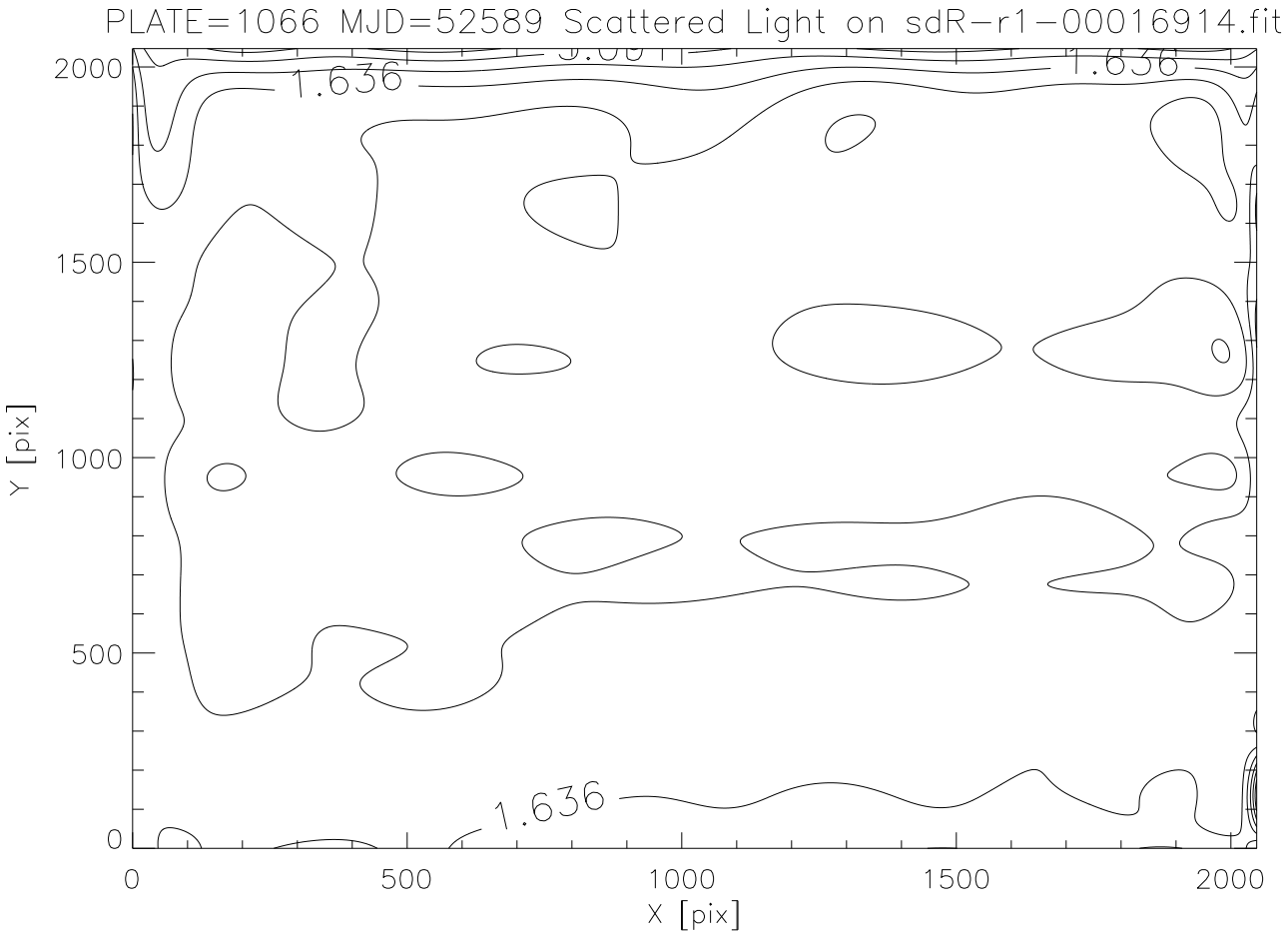

PLATE=1066 MJD=52589 sdR-r1-00016913.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 0.73 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

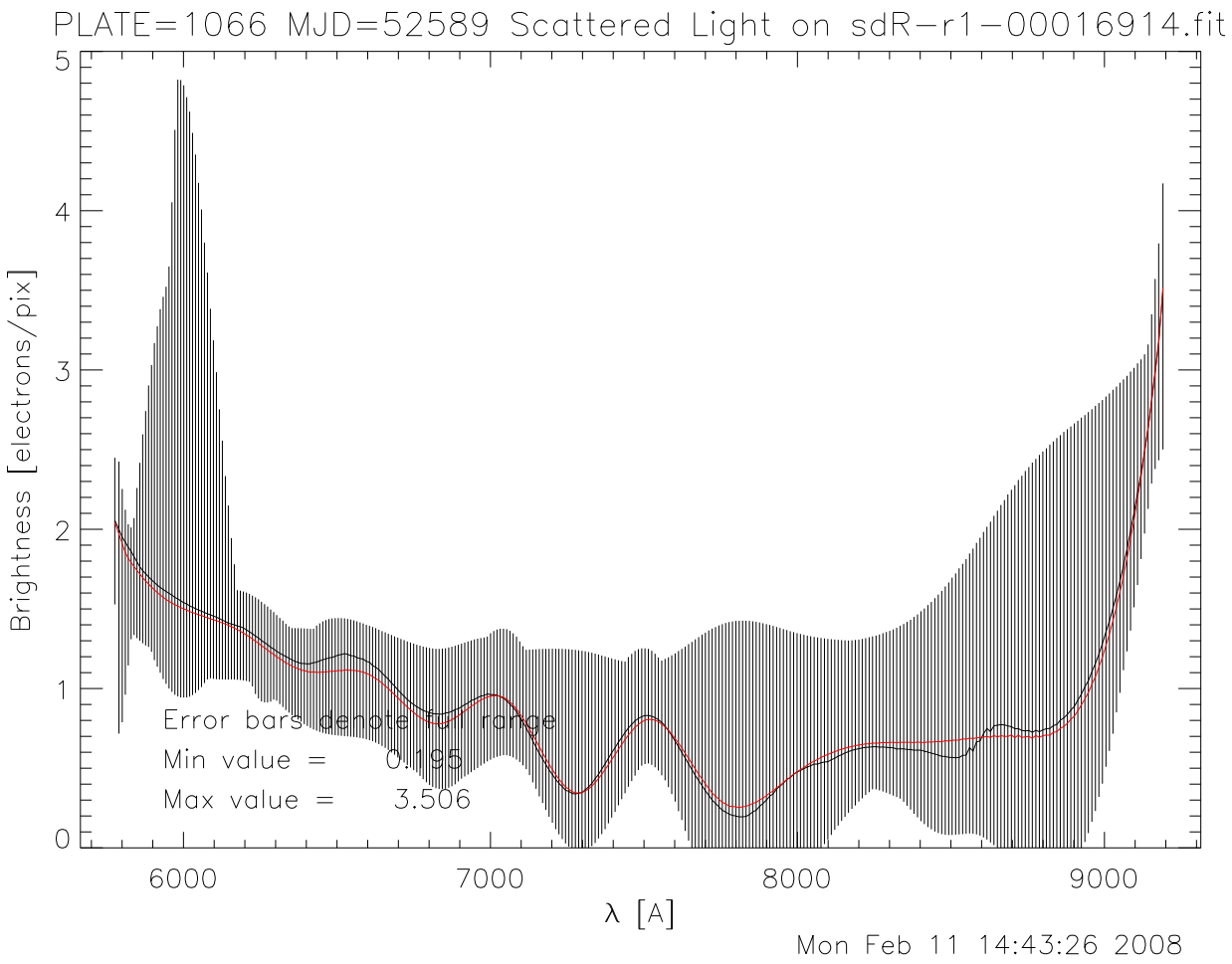

PLATE=1066 MJD=52589 sdR-r1-00016913.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.79 %
Fiber number
Focal Distance [mm]
Airmass

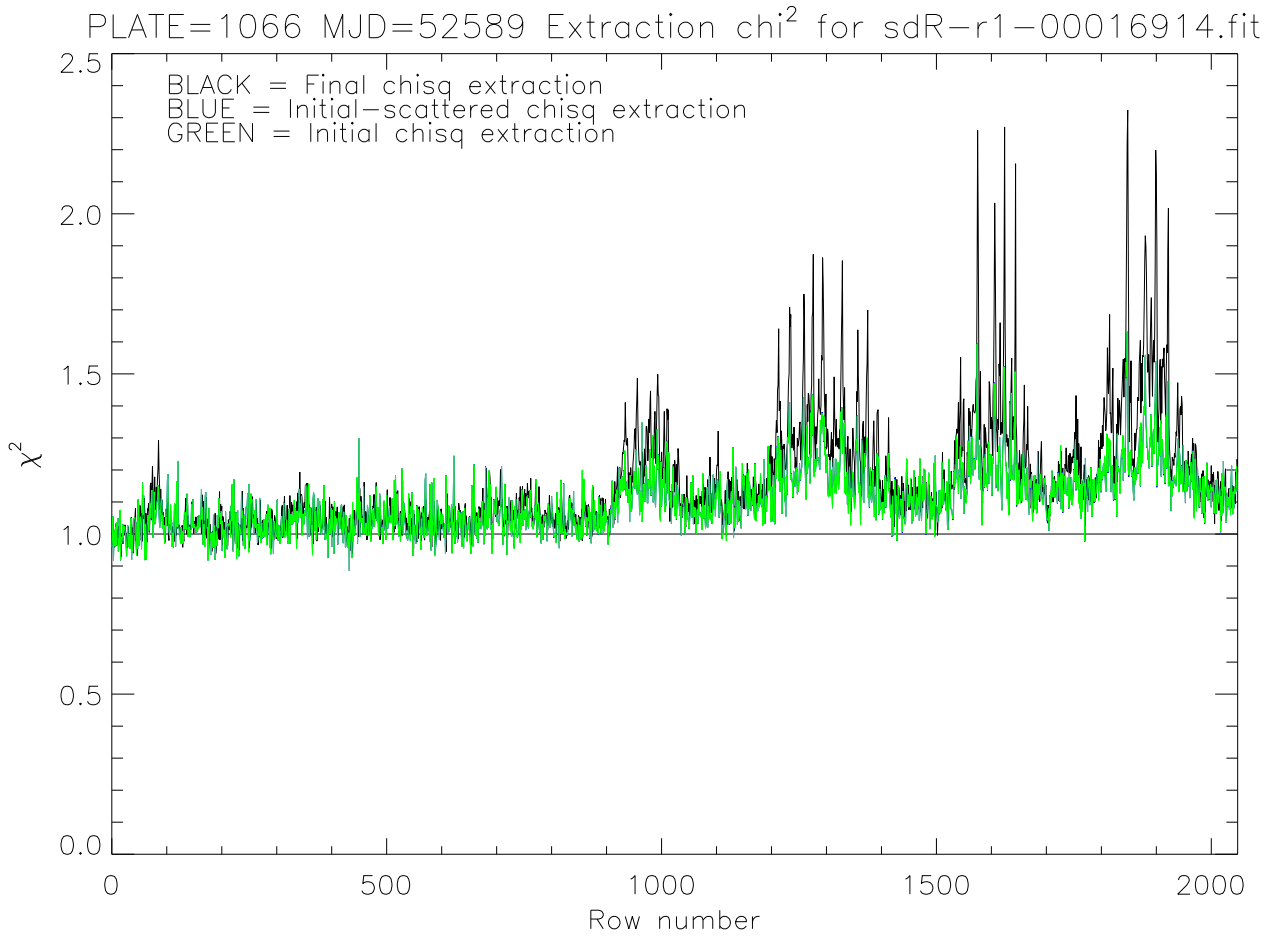

PLATE=1066 MJD=52589 Fiber−Flats for sdR−r1−00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.627
Max value = 1.248
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 14:40:31 2008

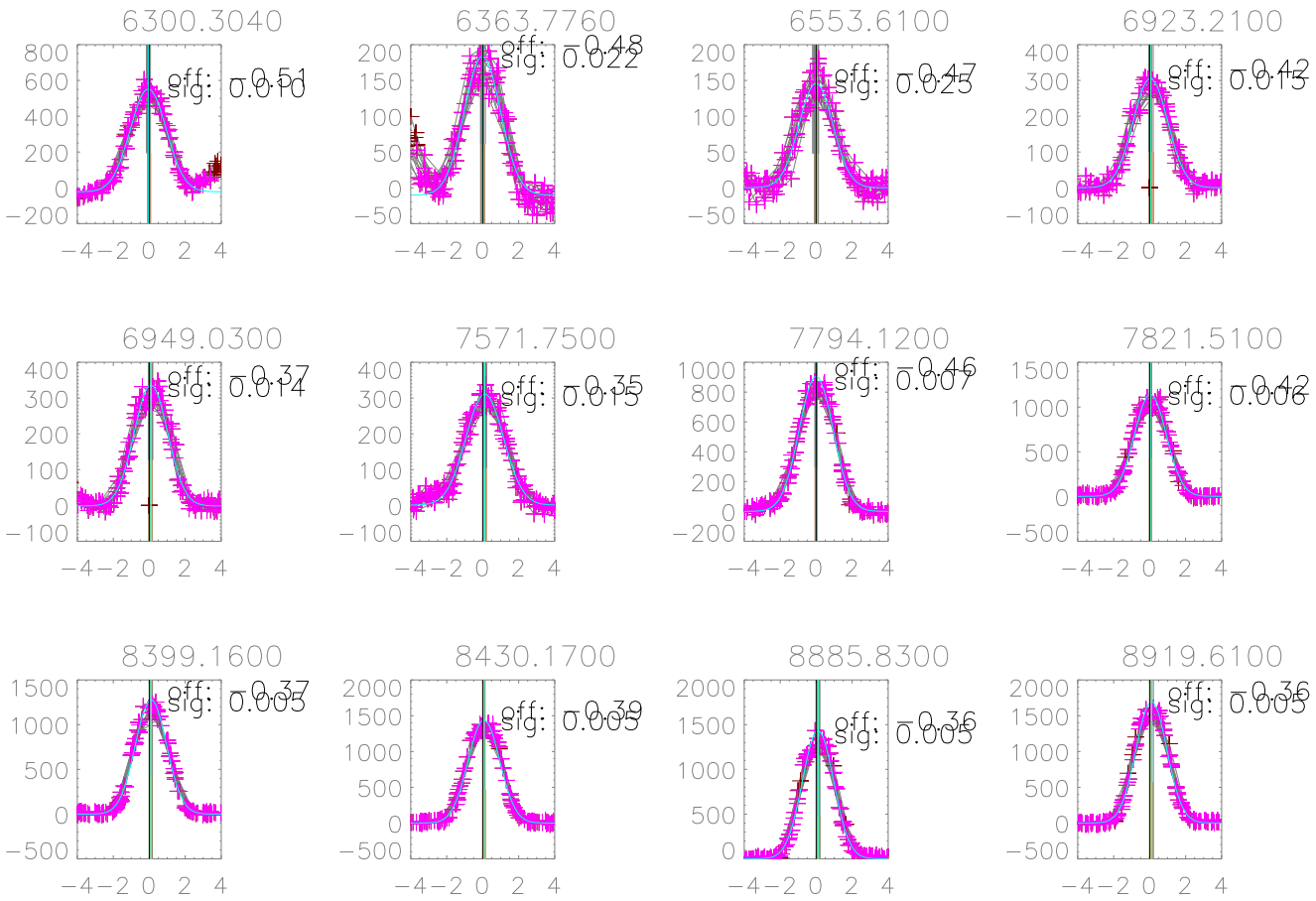

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r1-00016914.fi
11.45
11.45
8.91
6.36
6.36
3.82
Y [pix]
X [pix]
0
500
1000
1500
2000

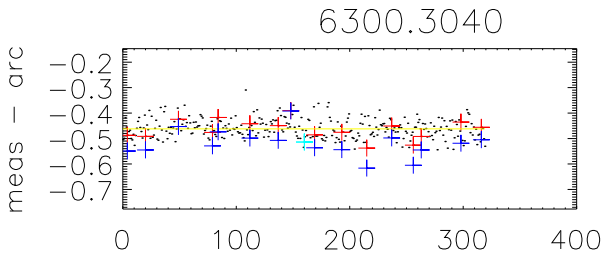

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r1-00016914.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = .802
Max value = 12.318
Mon Feb 11 14:41:05 2008

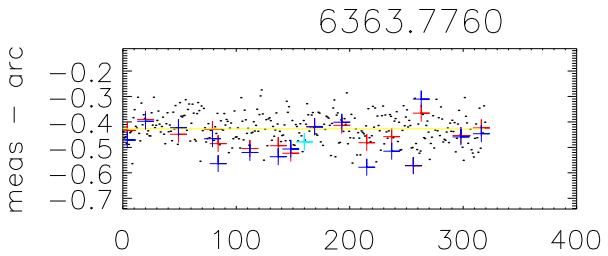

PLATE=1066 MJD=52589 Scattered Light on sdR-r1-00016914.fit
1.636
1.636
1.636
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

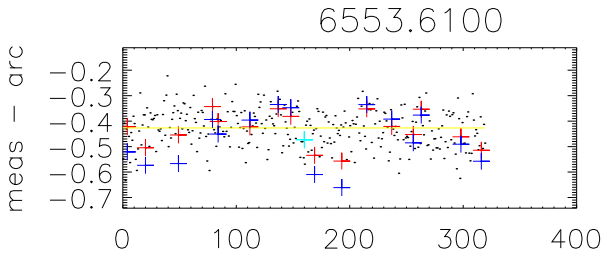

PLATE=1066 MJD=52589 Scattered Light on sdR-r1-00016914.fit
Brightness [electrons/pix]
λ [A]
Error bars denote 1σ range
Min value = 0.195
Max value = 3.506
Mon Feb 11 14:43:26 2008

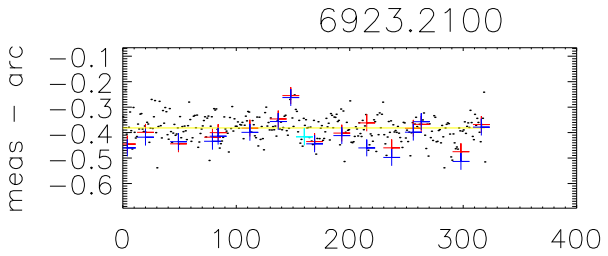

PLATE=1066 MJD=52589 Extraction chi^2 for sdR−r1−00016914.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

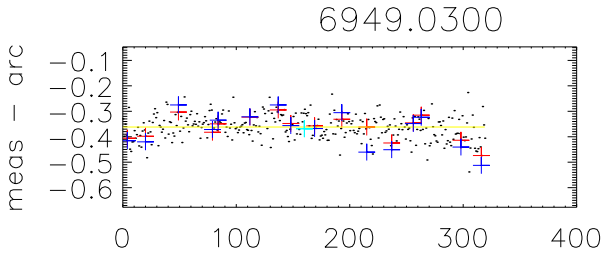

6300.3040
off: −0.51
sig: 0.010
6363.7760
off: −0.48
sig: 0.022
6553.6100
off: −0.47
sig: 0.023
6923.2100
off: −0.42
sig: 0.015
6949.0300
off: −0.37
sig: 0.014
7571.7500
off: −0.35
sig: 0.015
7794.1200
off: −0.46
sig: 0.007
7821.5100
off: −0.42
sig: 0.006
8399.1600
off: −0.37
sig: 0.005
8430.1700
off: −0.39
sig: 0.005
8885.8300
off: −0.36
sig: 0.005
8919.6100
off: −0.36
sig: 0.005

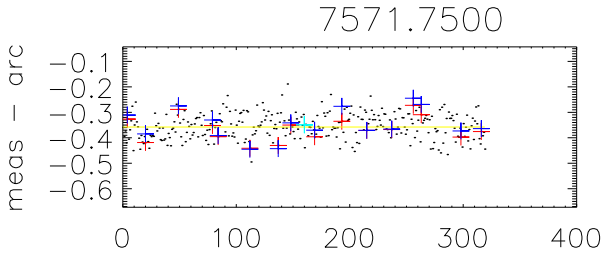

6300.3040
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

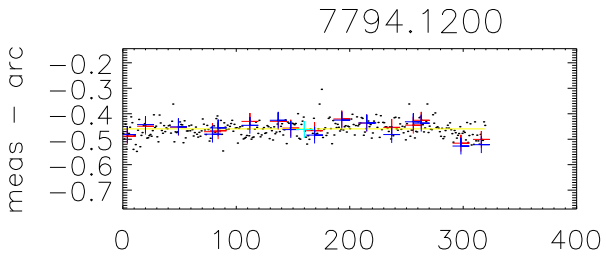

6363.7760
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

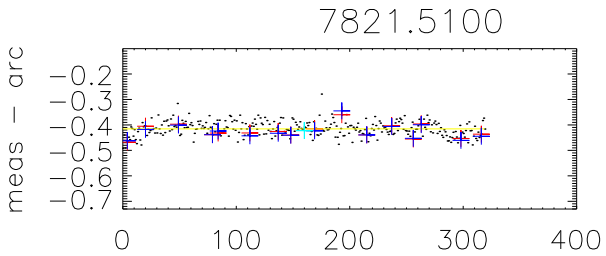

6553.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

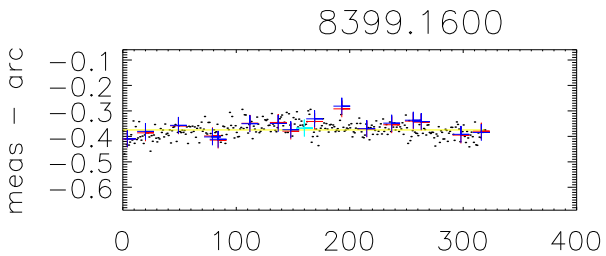

6923.2100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

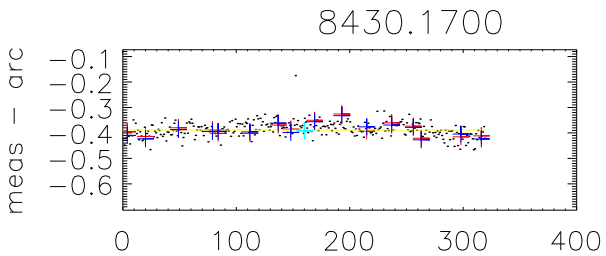

6949.0300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

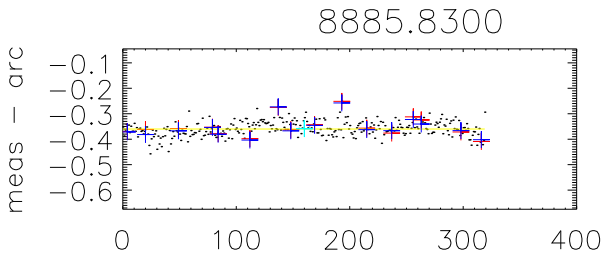

7571.7500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

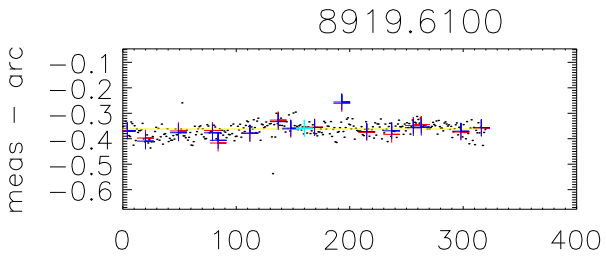

7794.1200
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

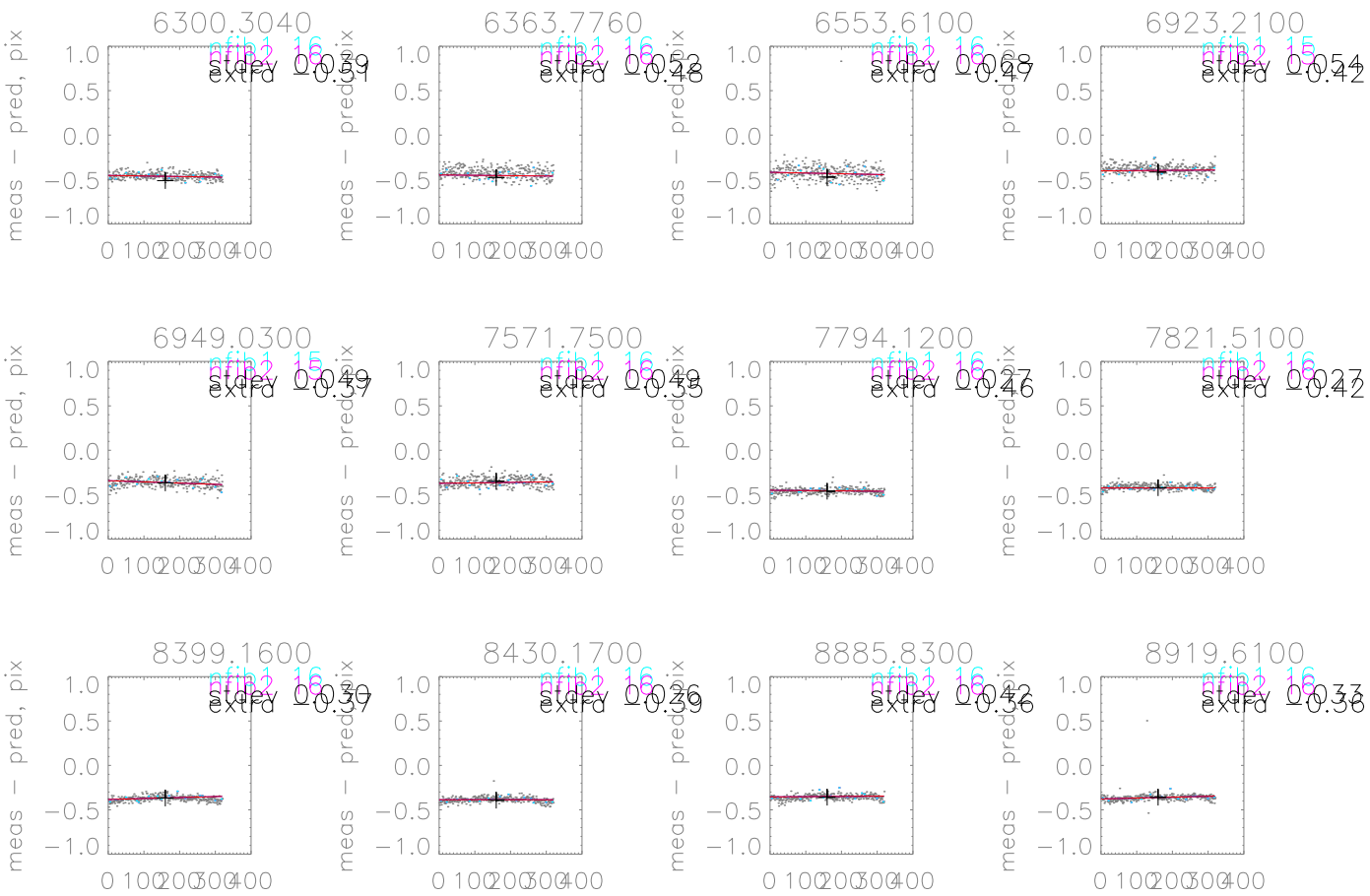

7821.5100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

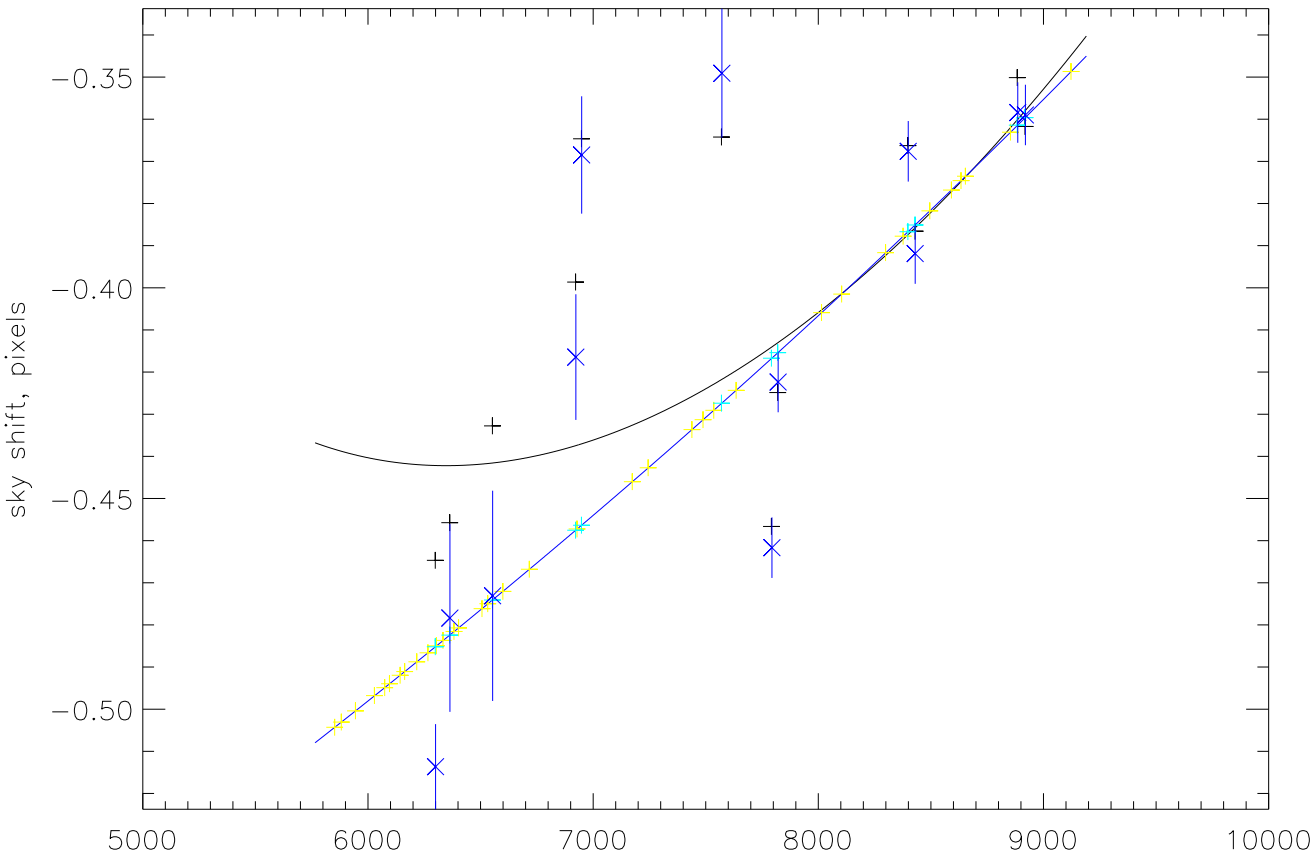

8399.1600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

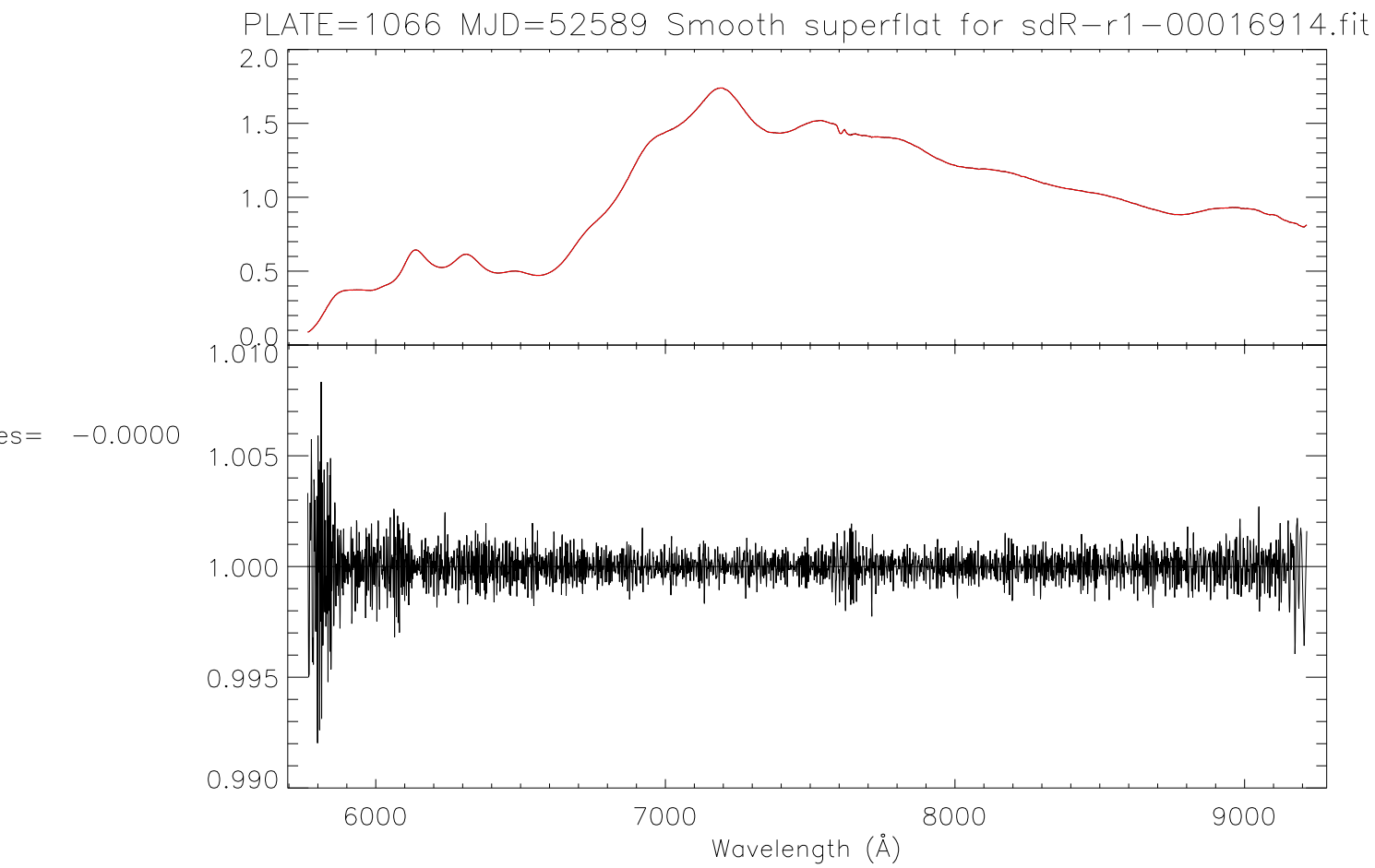

8430.1700
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

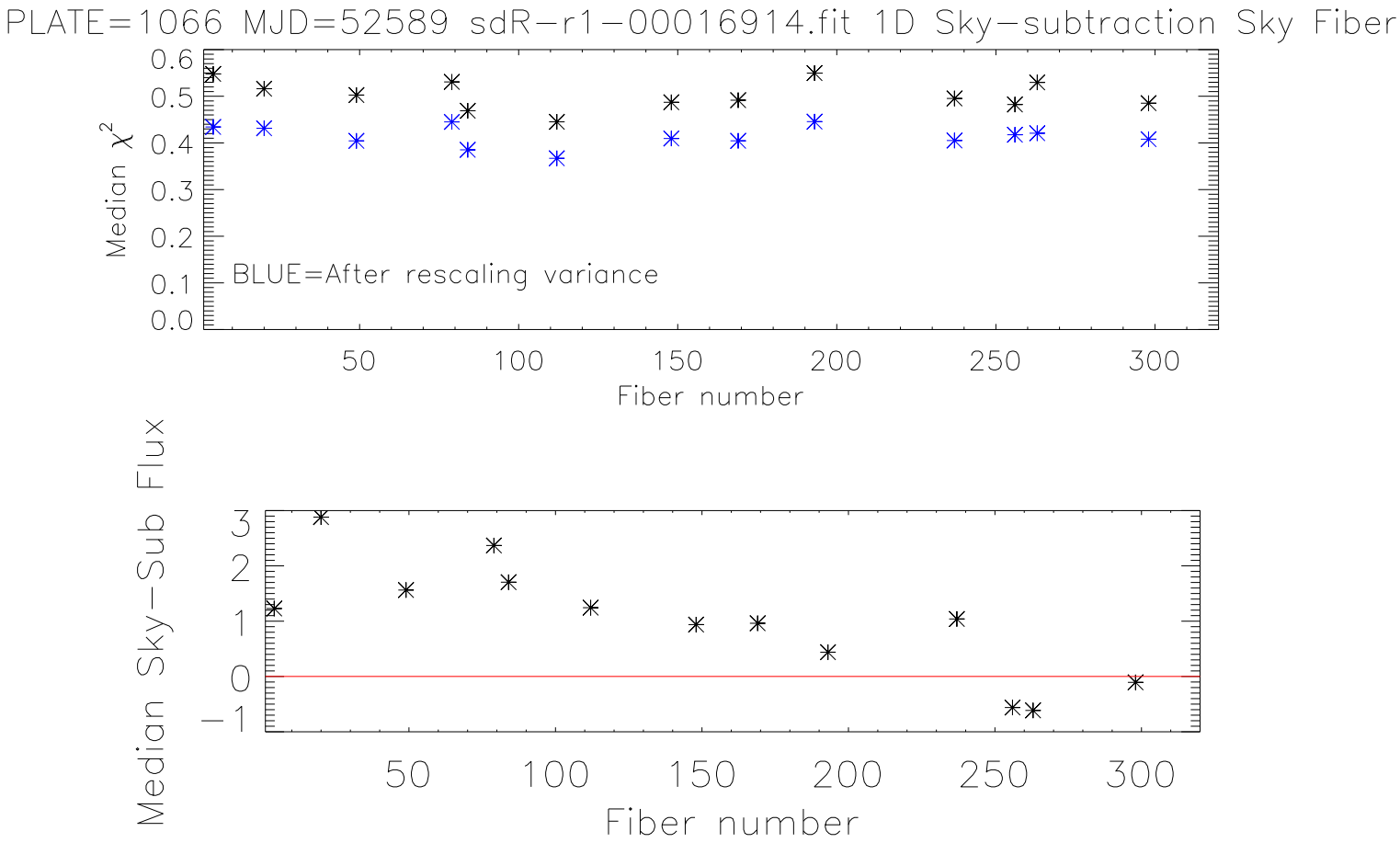

8885.8300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

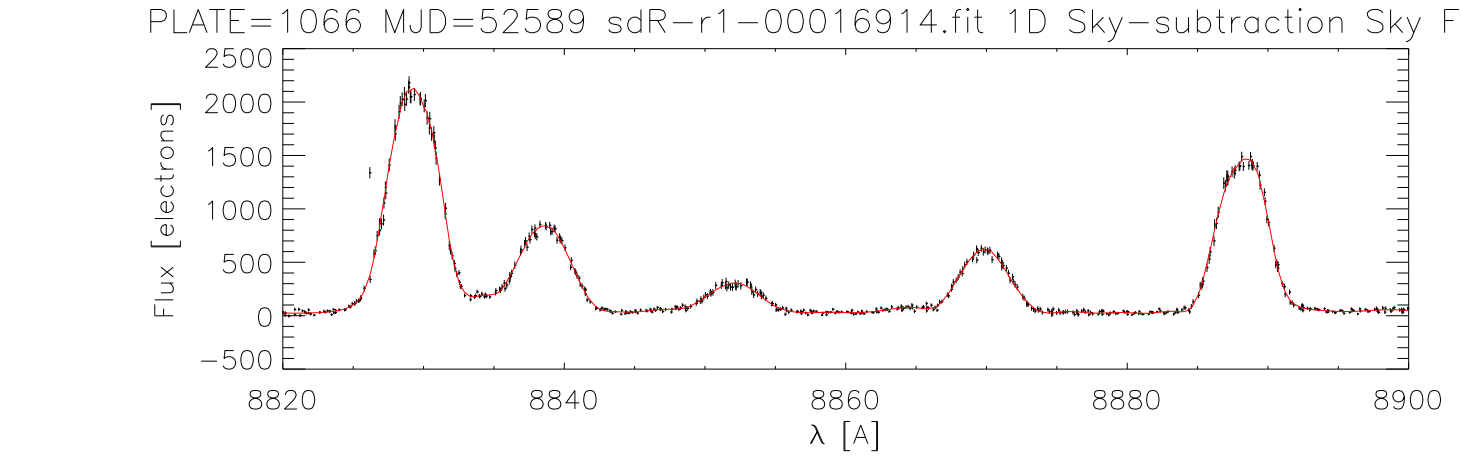

8919.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

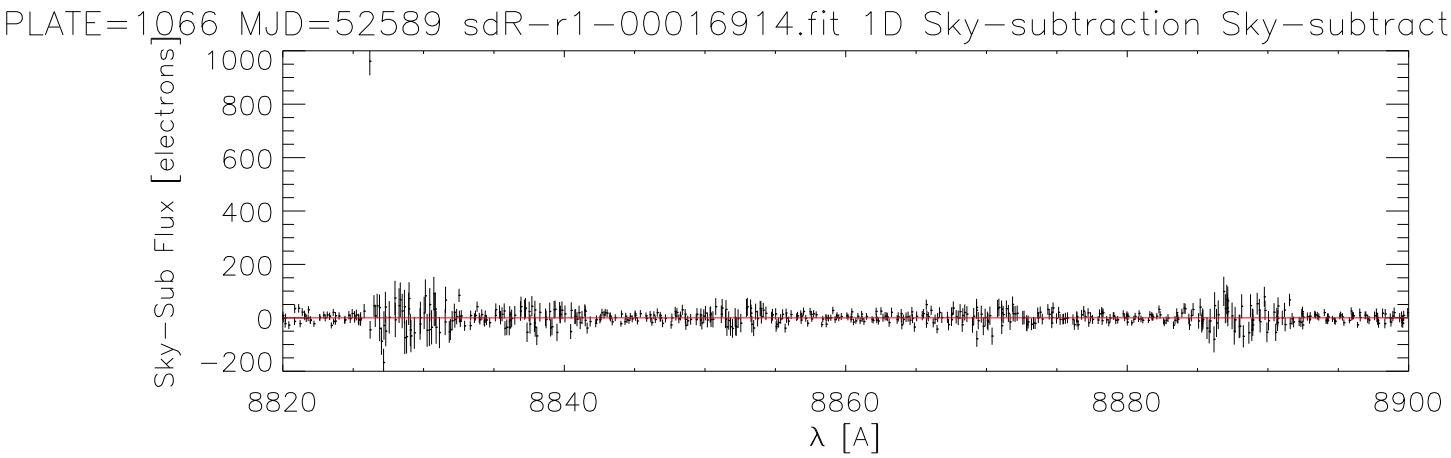

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfhi2 16
mflo2 15
stdev 0.039
extrd 0.51
stdev 0.052
extrd 0.48
stdev 0.068
extrd 0.47
stdev 0.054
extrd 0.42
stdev 0.049
extrd 0.37
stdev 0.049
extrd 0.35
stdev 0.027
extrd 0.46
stdev 0.027
extrd 0.42
stdev 0.030
extrd 0.37
stdev 0.026
extrd 0.39
stdev 0.042
extrd 0.36
stdev 0.033
extrd 0.36

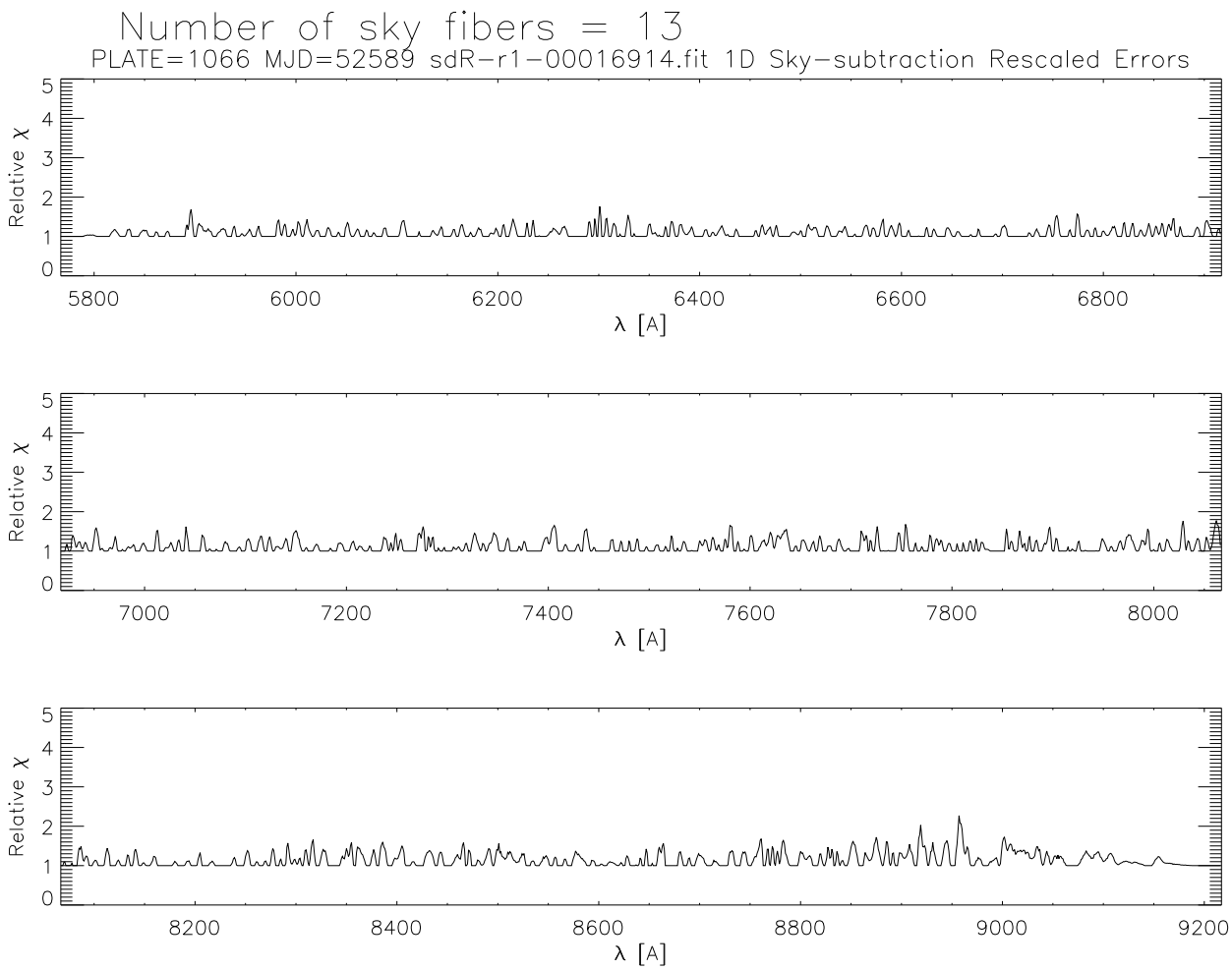

−0.35
−0.40
−0.45
−0.50
sky shift, pixels
5000
6000
7000
8000
9000
10000

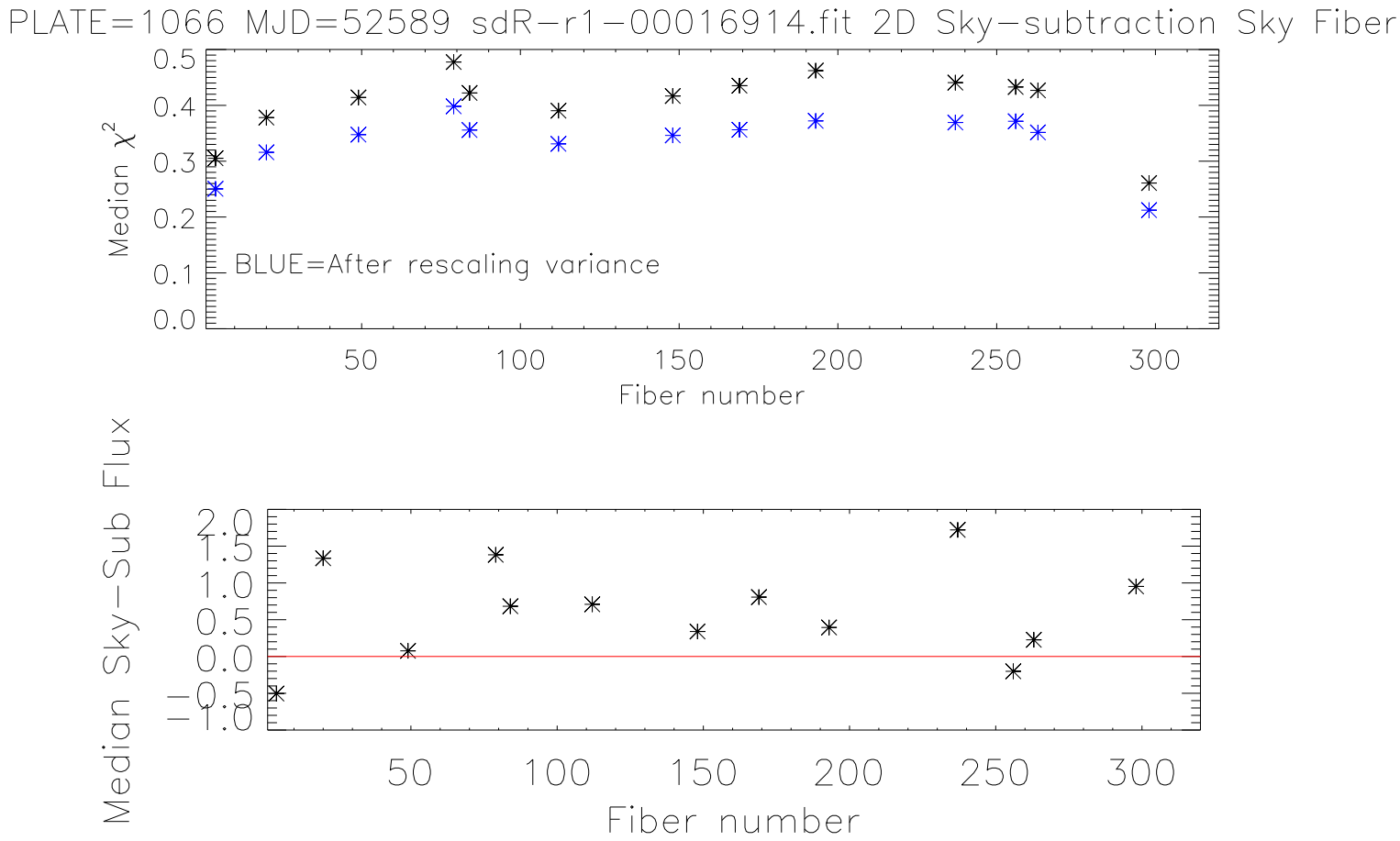

PLATE=1066 MJD=52589 Smooth superflat for sdR-r1-00016914.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

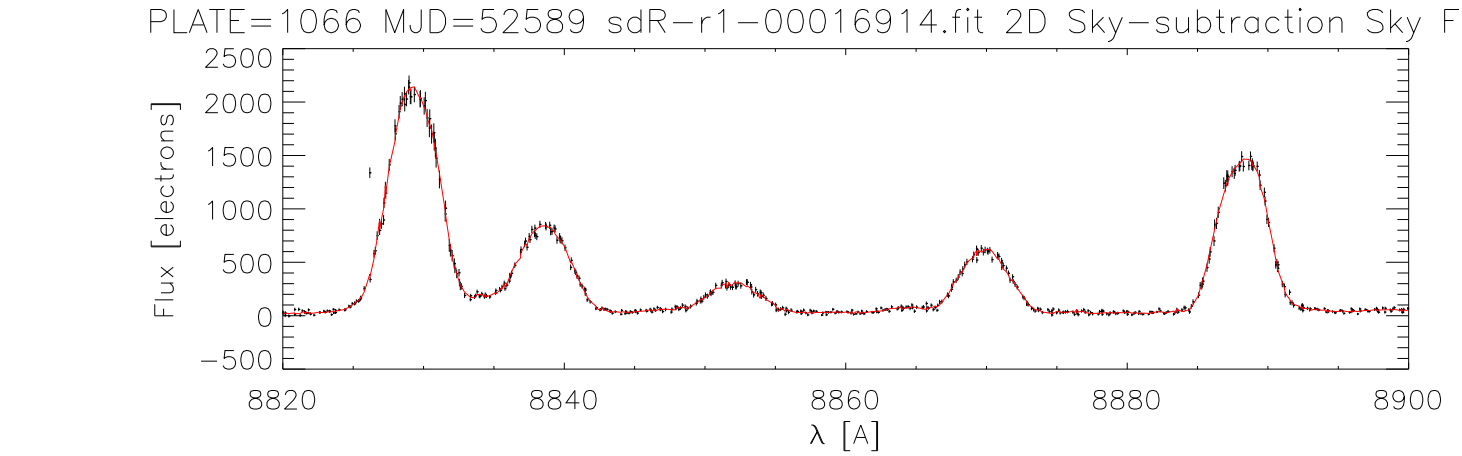

PLATE=1066 MJD=52589 sdR-r1-00016914.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

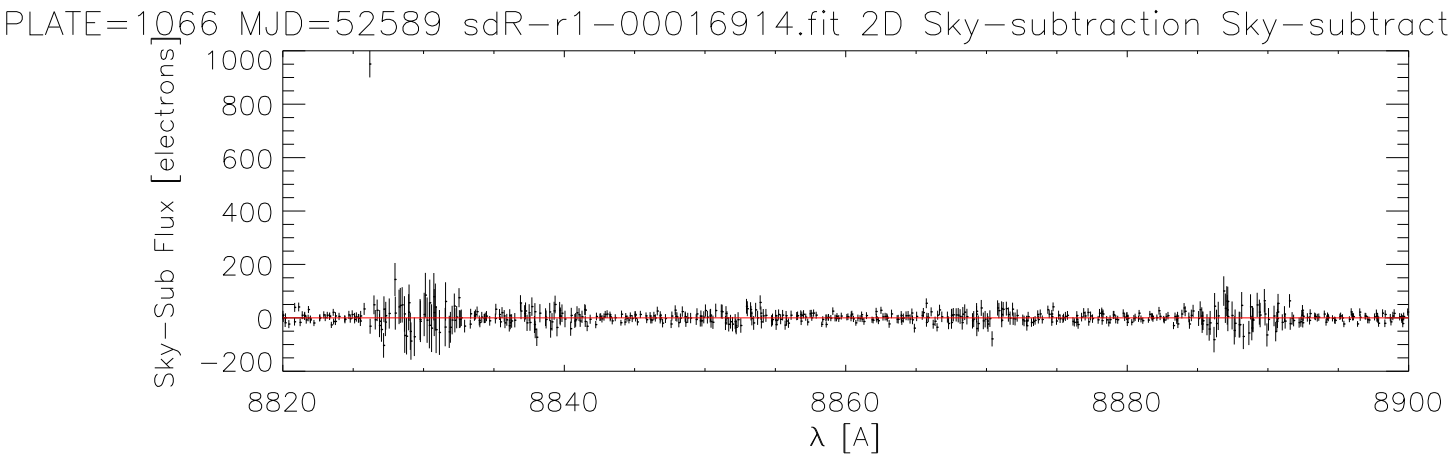

PLATE=1066 MJD=52589 sdR-r1-00016914.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

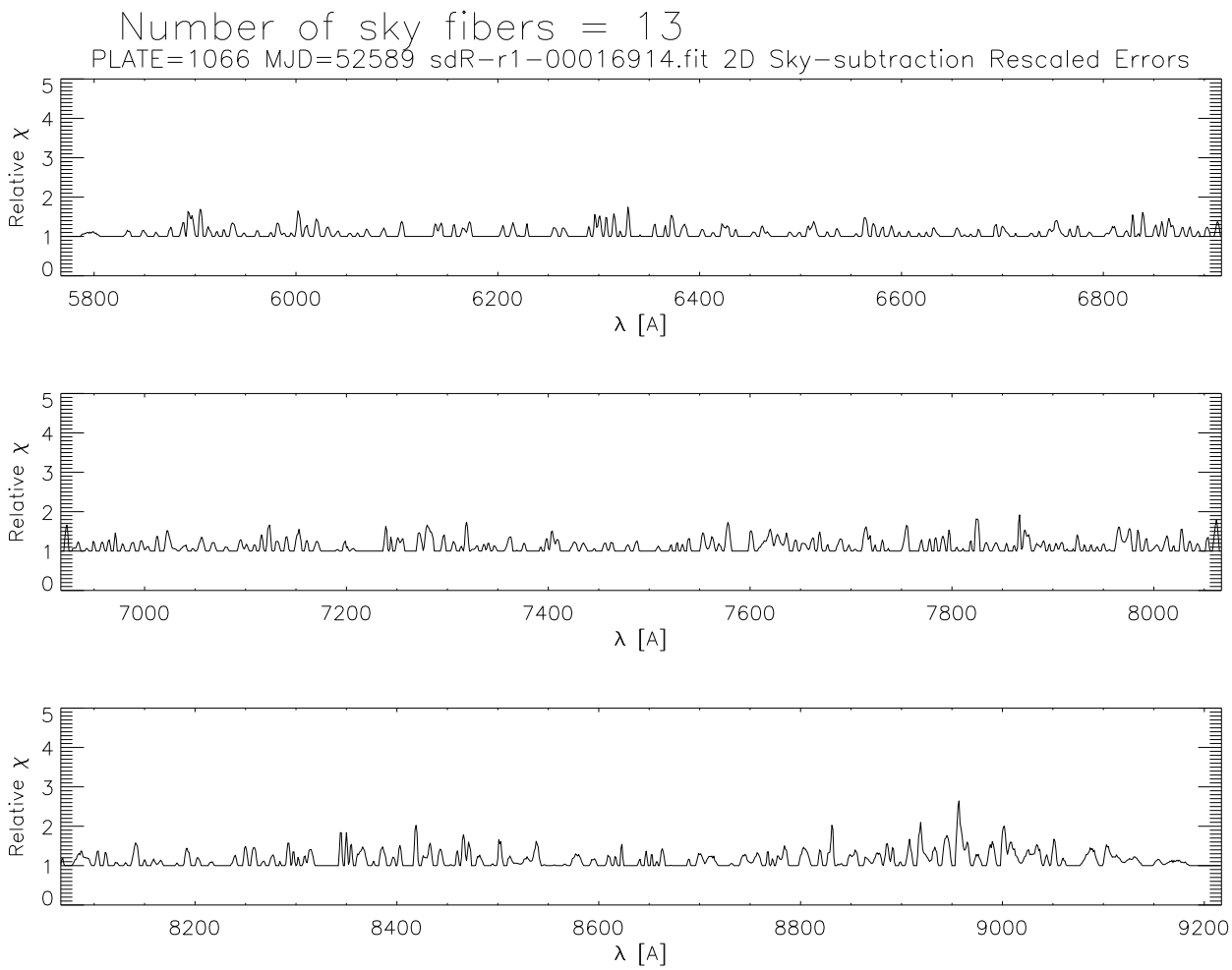

PLATE=1066 MJD=52589 sdR-r1-00016914.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
−200
8820
8840
8860
8880
8900
λ [A]

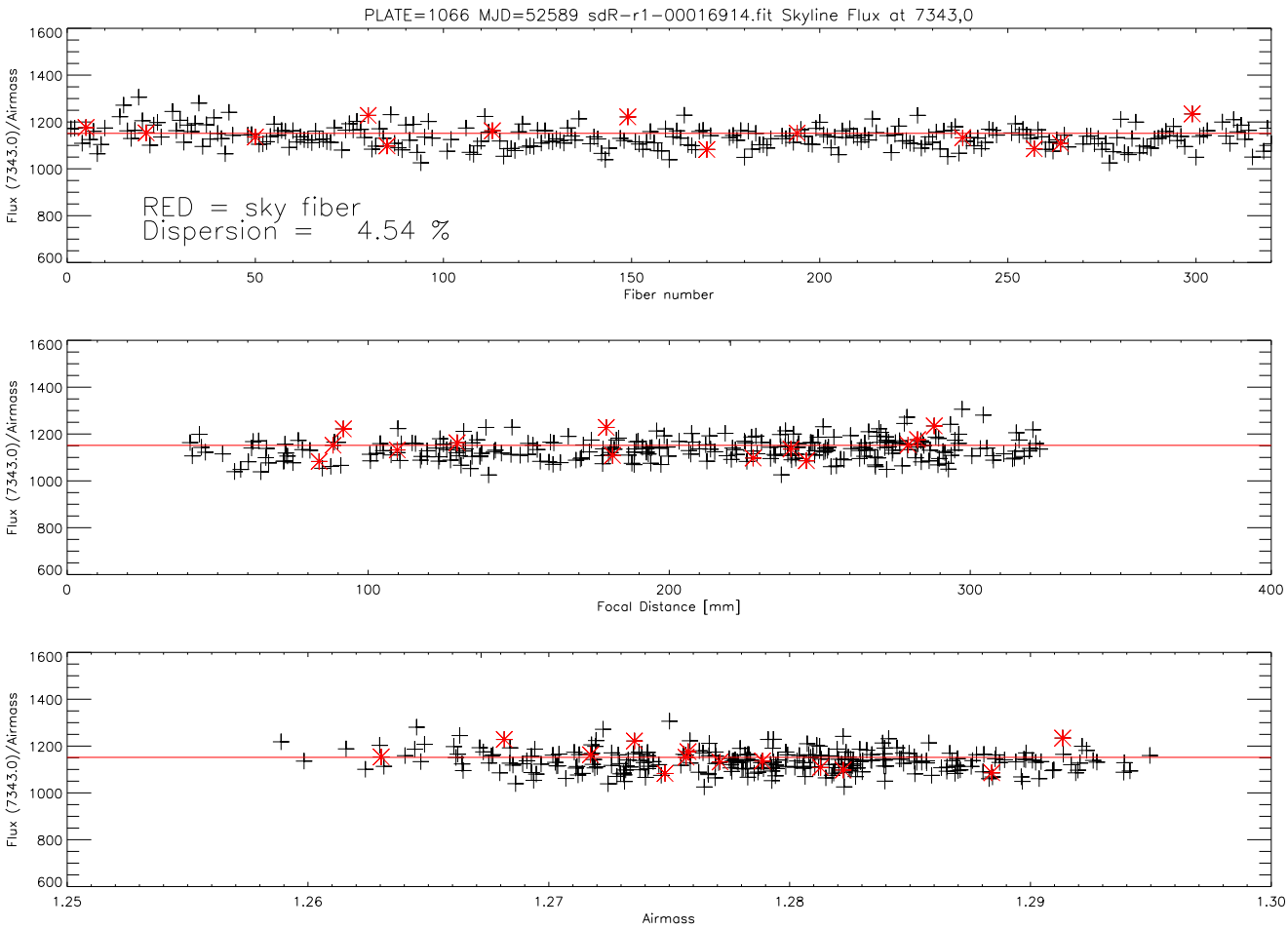

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r1-00016914.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

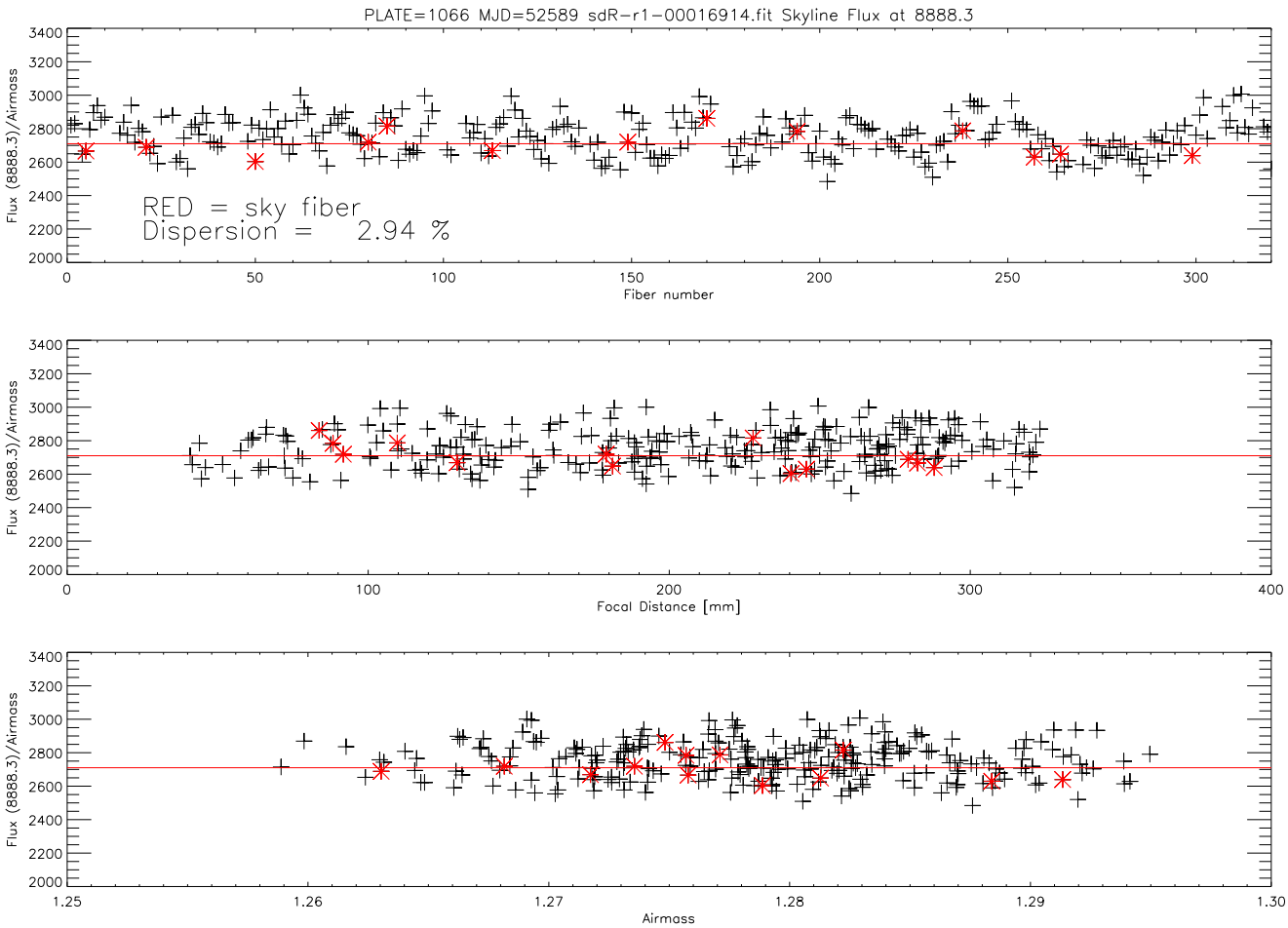

PLATE=1066 MJD=52589 sdR-r1-00016914.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

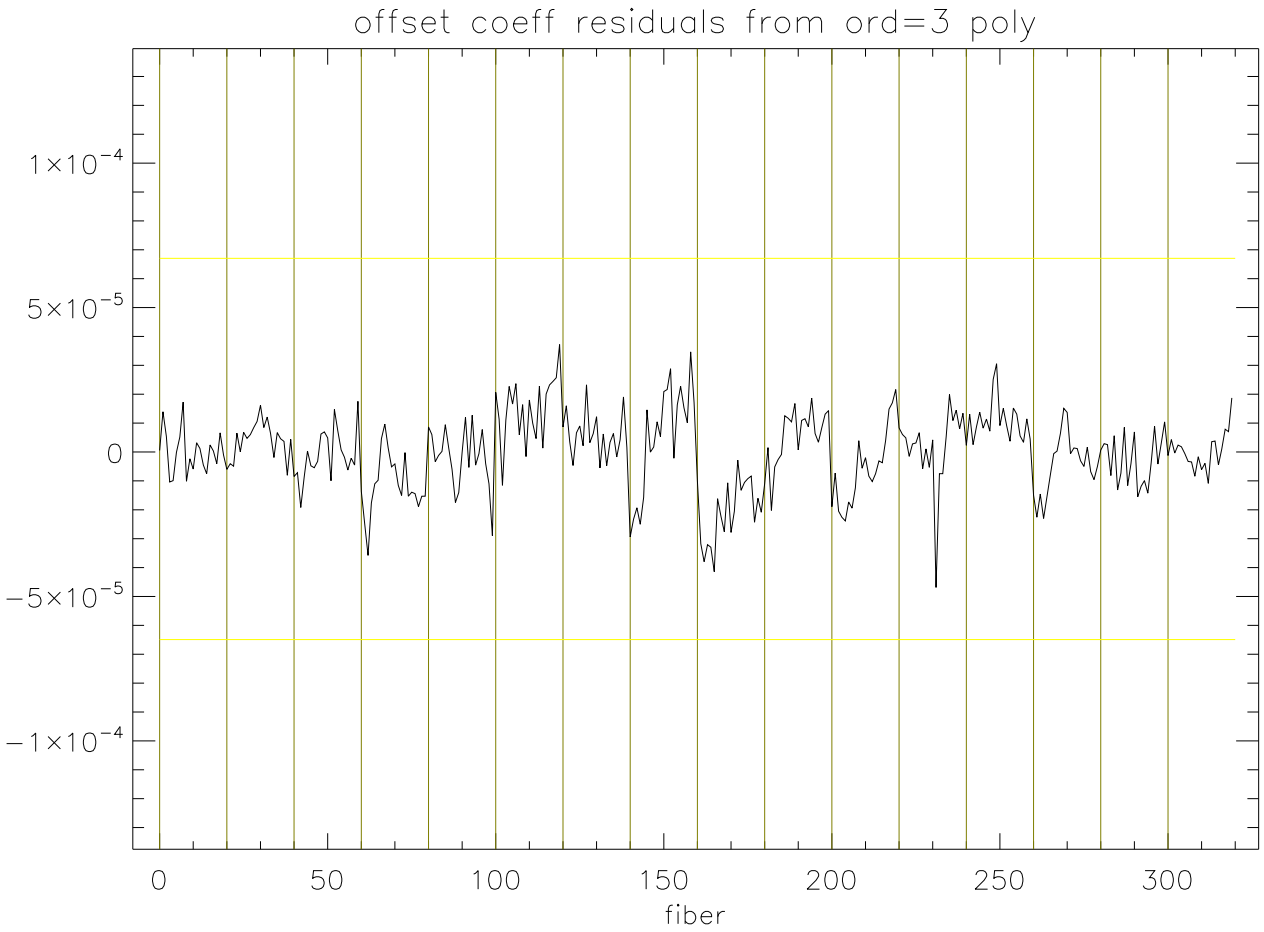

PLATE=1066 MJD=52589 sdR-r1-00016914.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

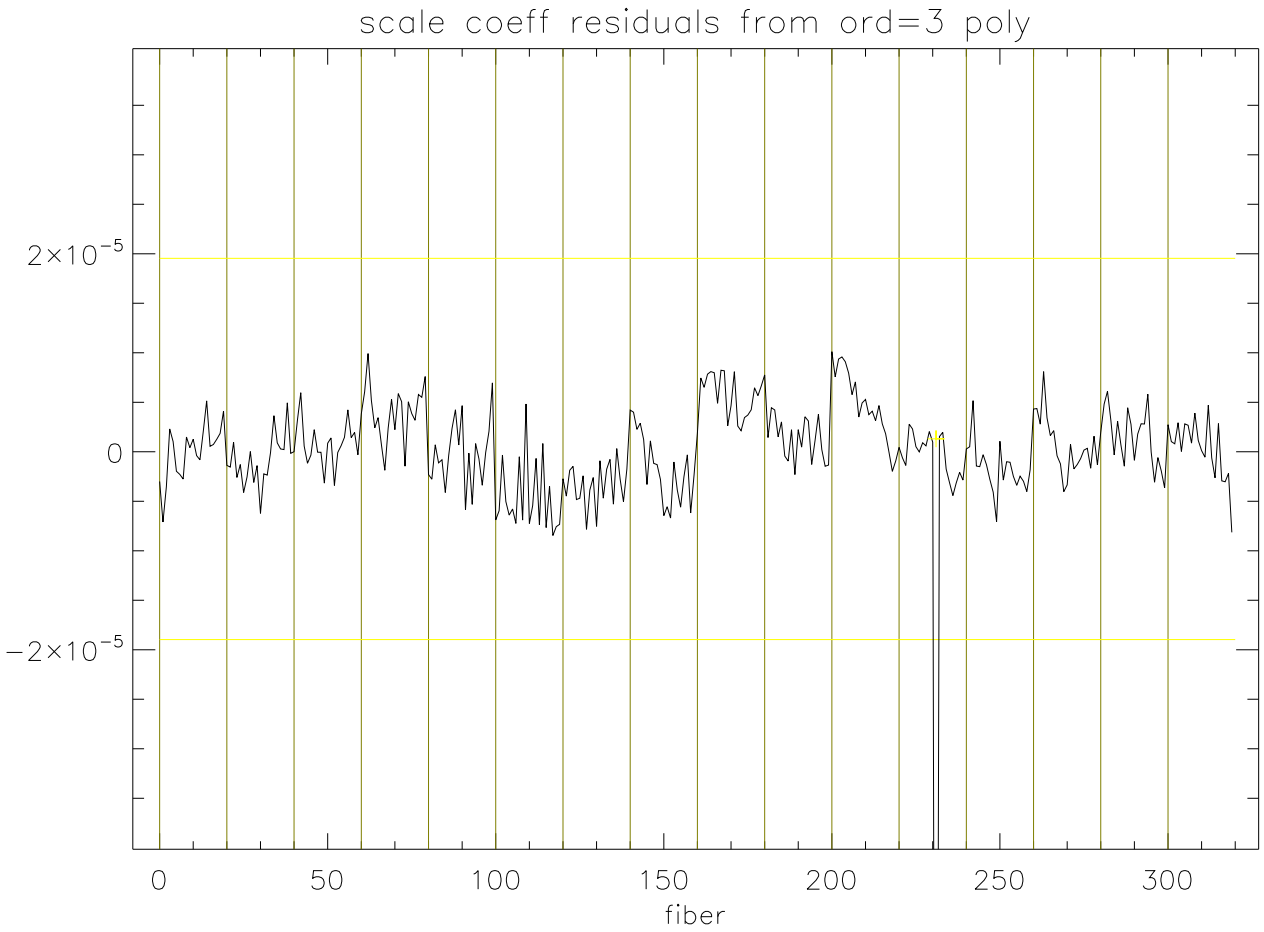

PLATE=1066 MJD=52589 sdR-r1-00016914.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

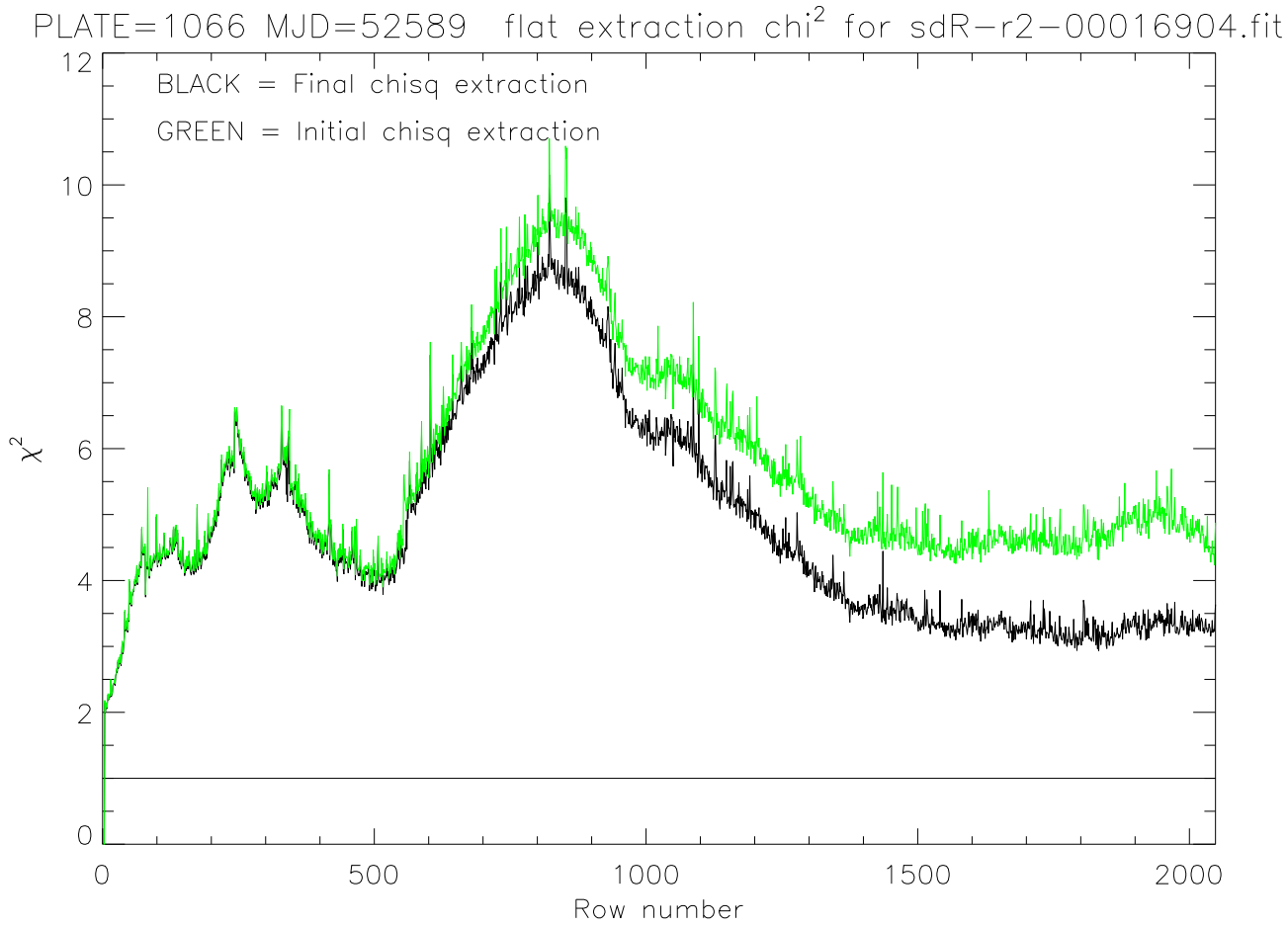

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r1-00016914.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

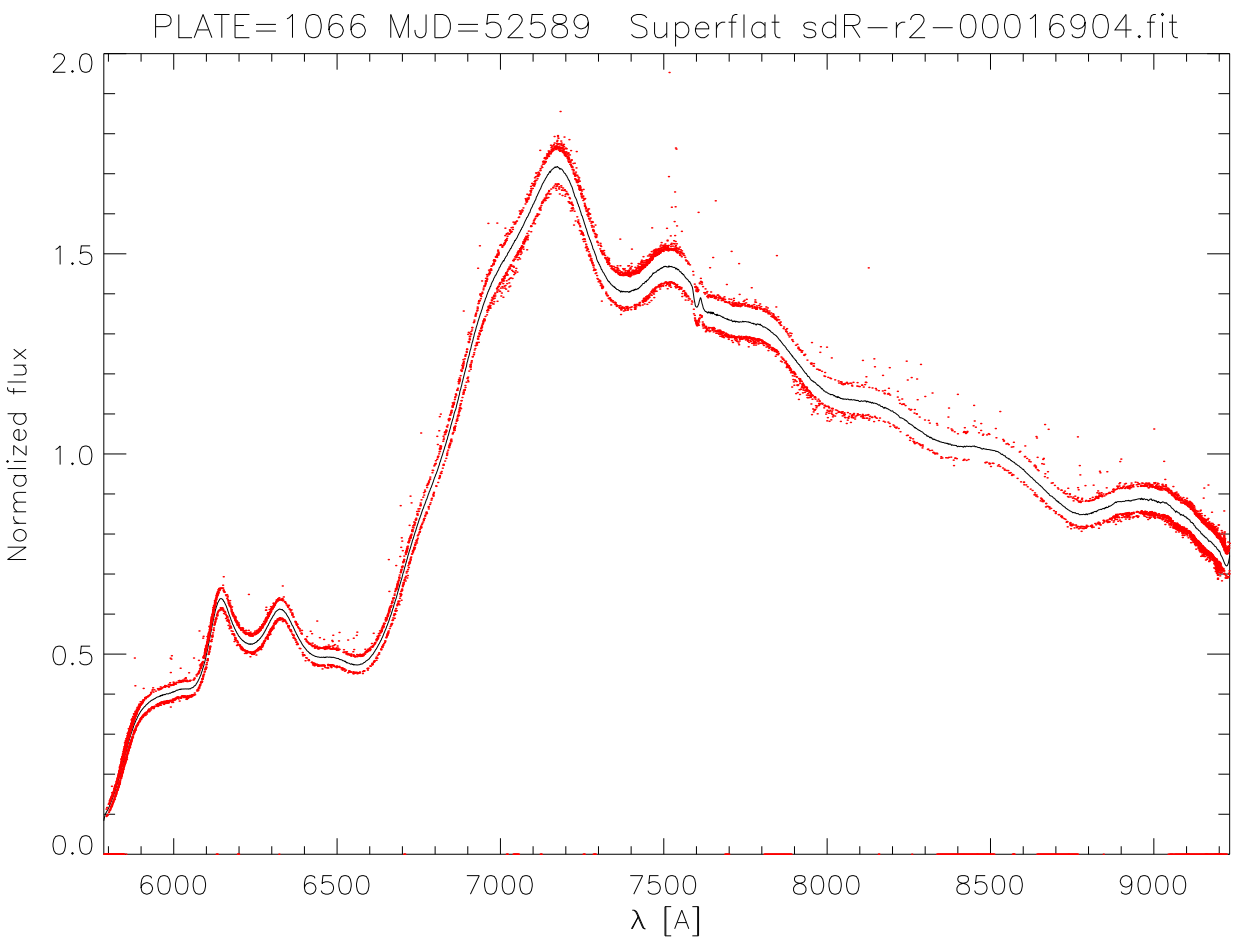

PLATE=1066 MJD=52589 sdR-r1-00016914.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.54 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

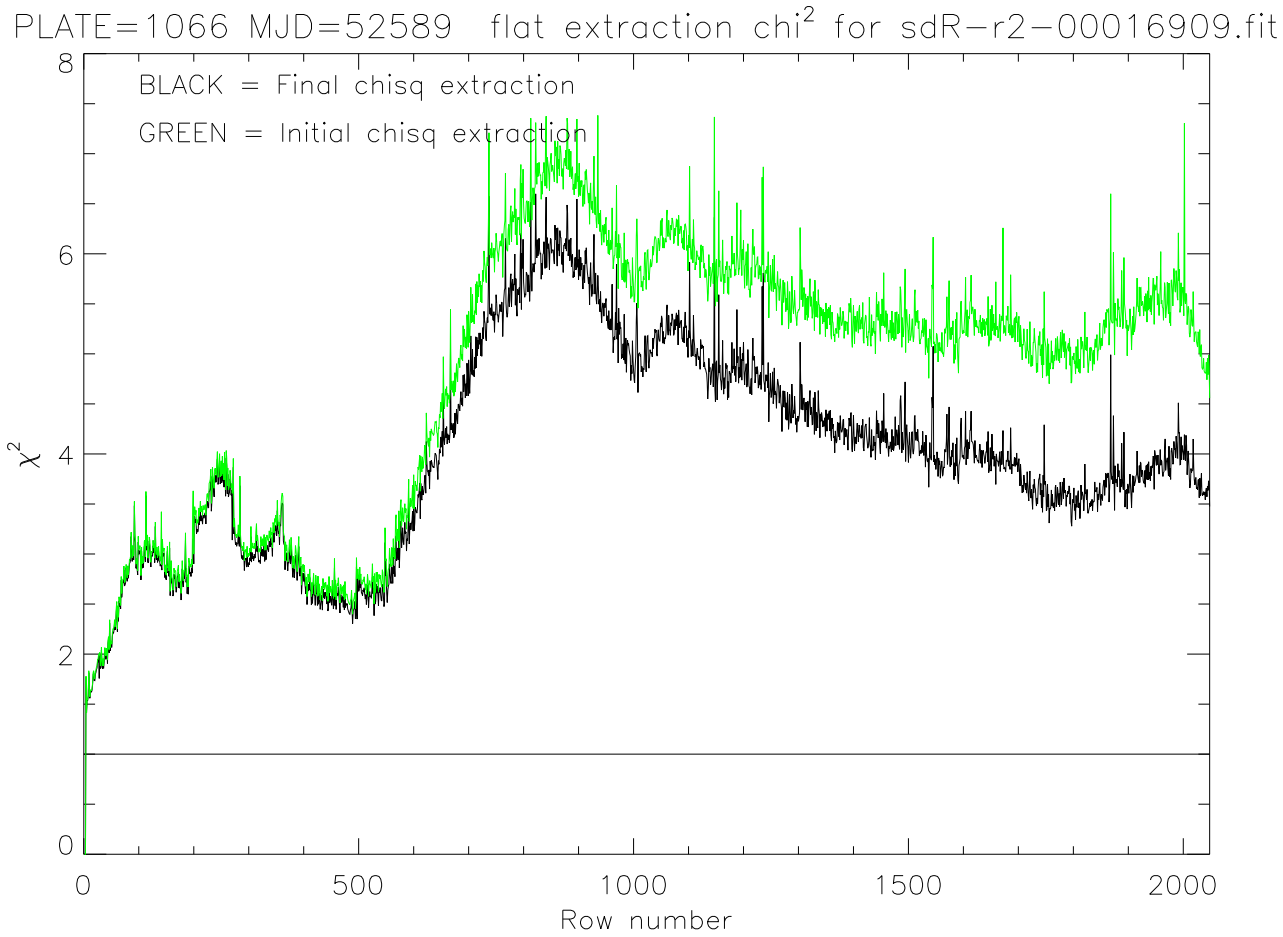

PLATE=1066 MJD=52589 sdR-r1-00016914.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.94 %
Fiber number
Focal Distance [mm]
Airmass

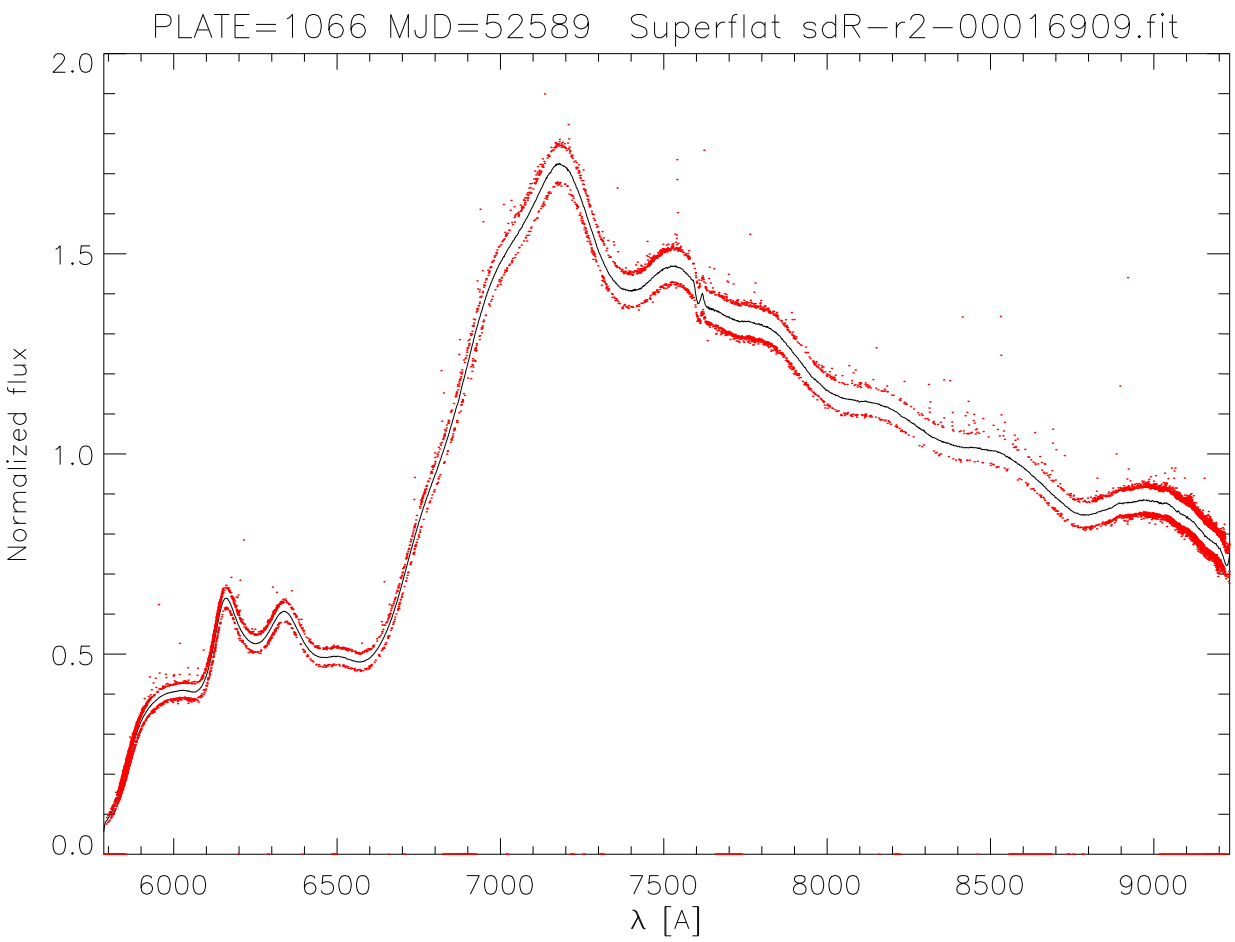

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

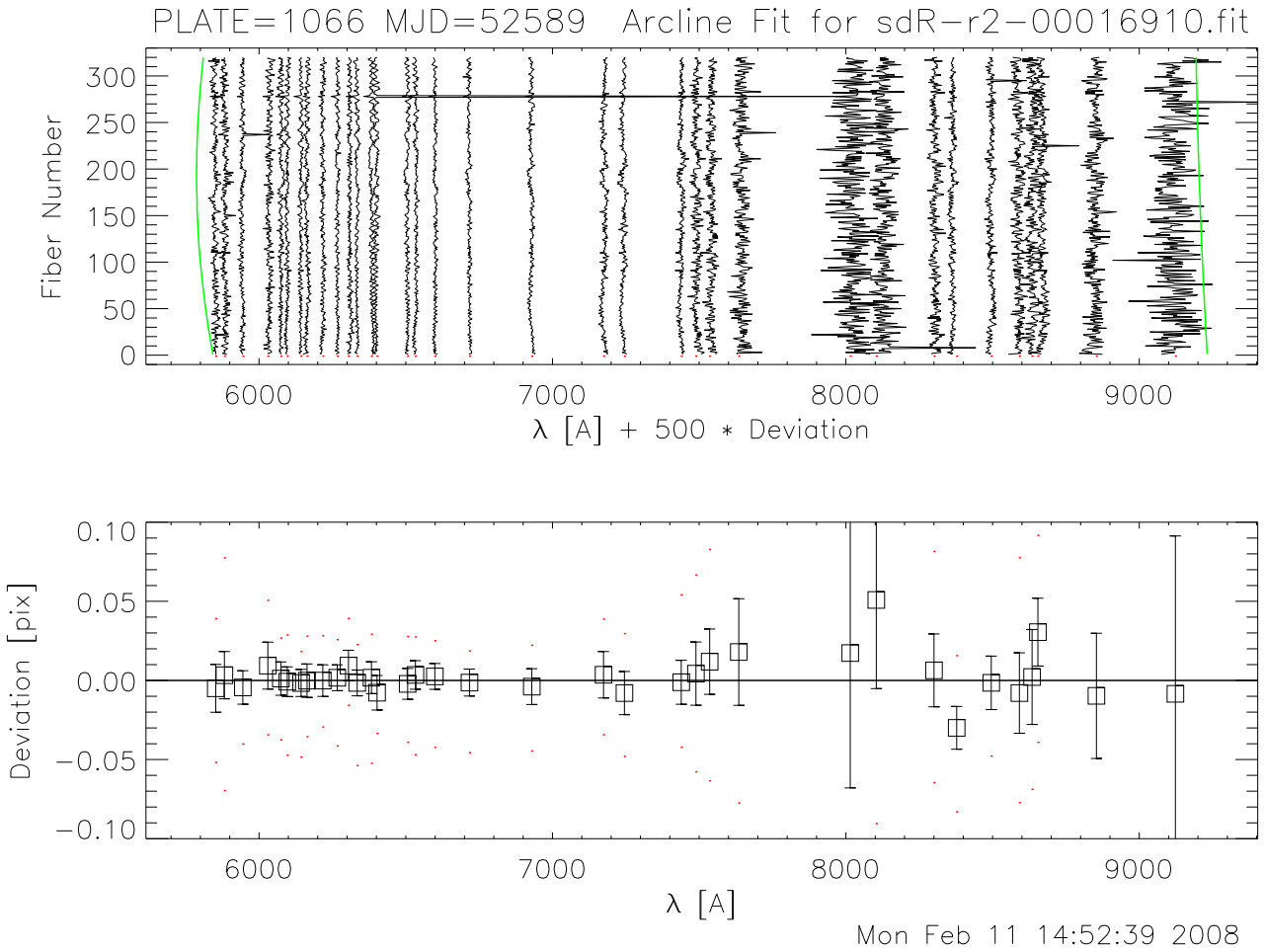

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

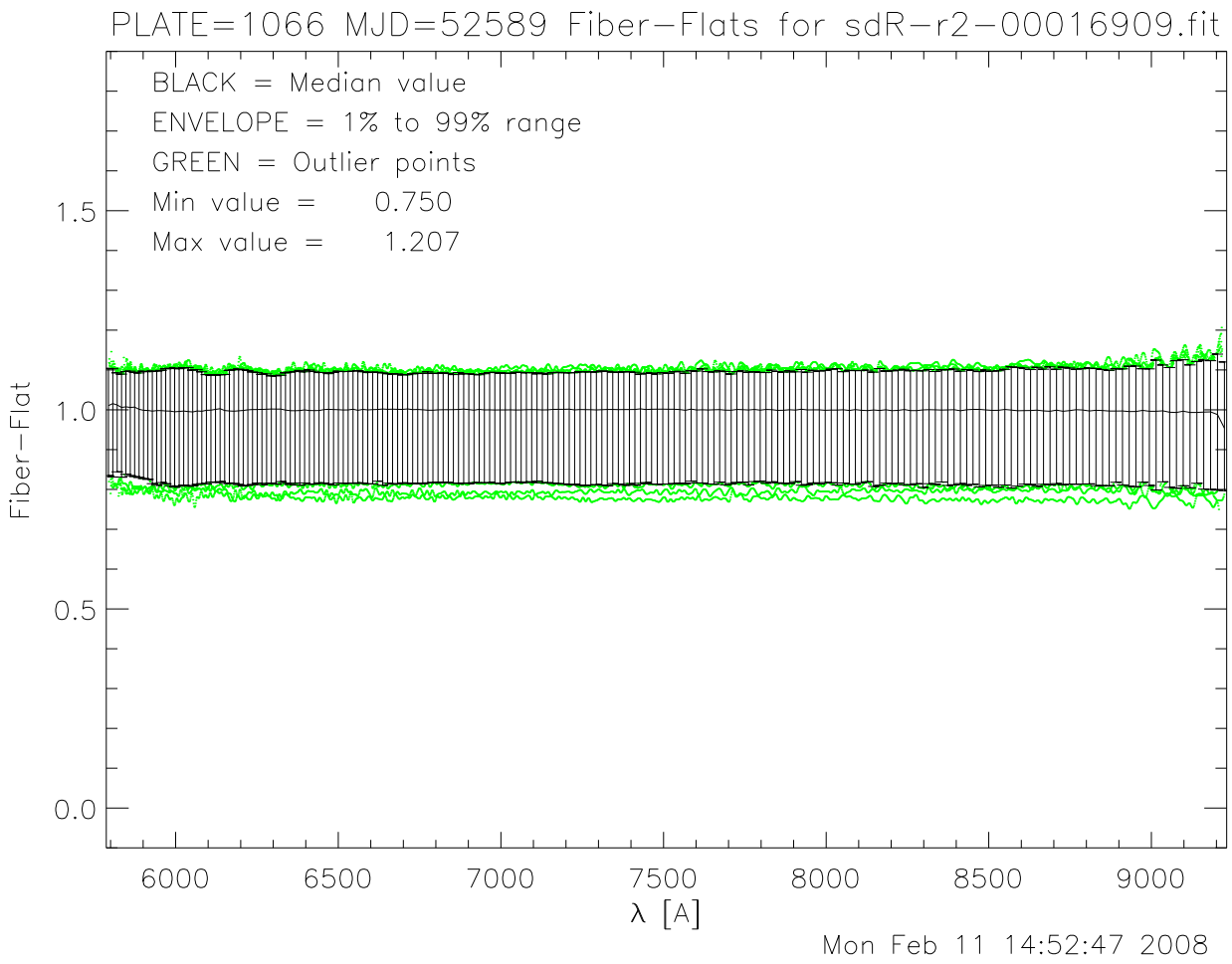

PLATE=1066 MJD=52589 flat extraction chi^2 for sdR−r2−00016904.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

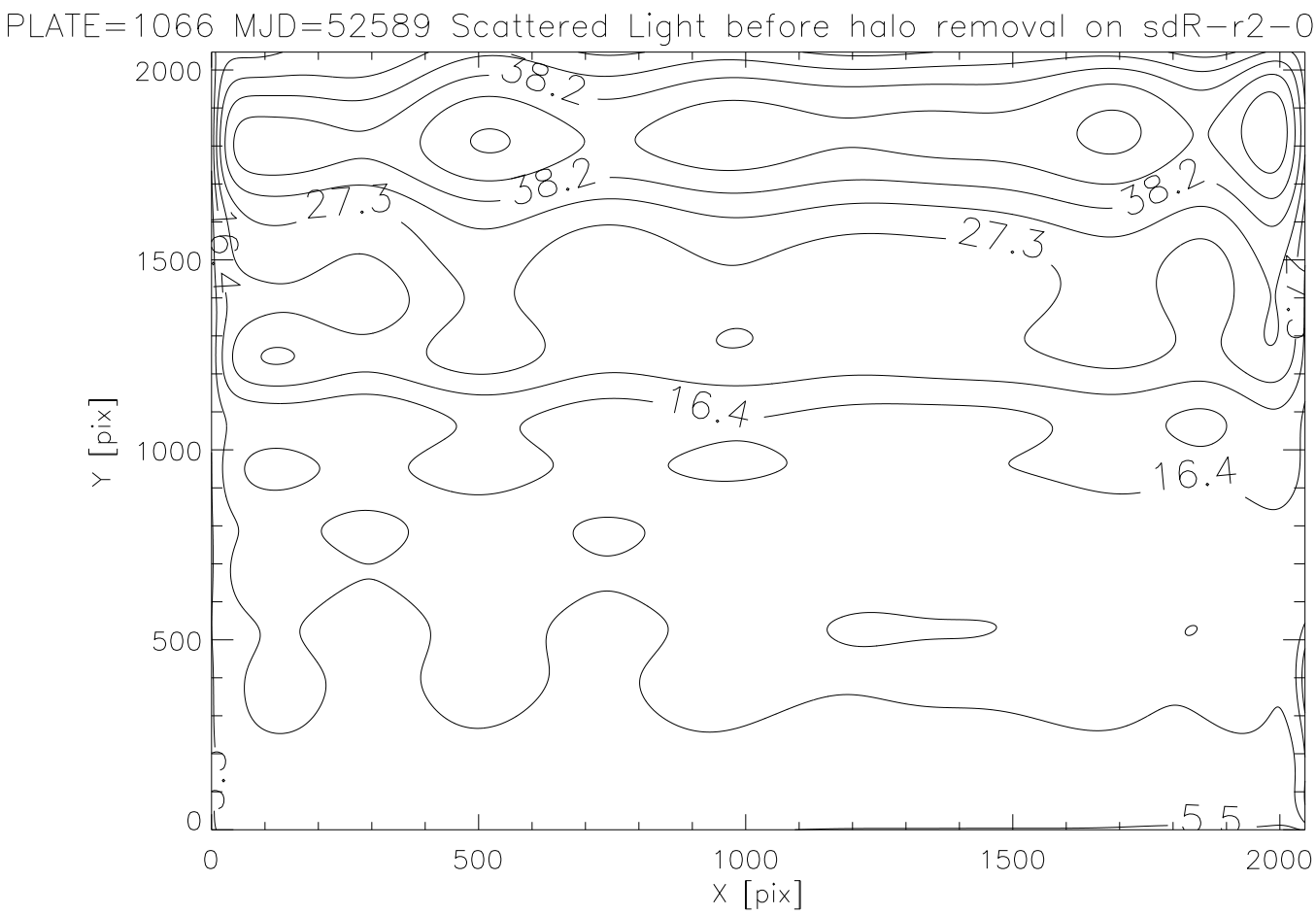

PLATE=1066 MJD=52589 Superflat sdR-r2-00016904.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

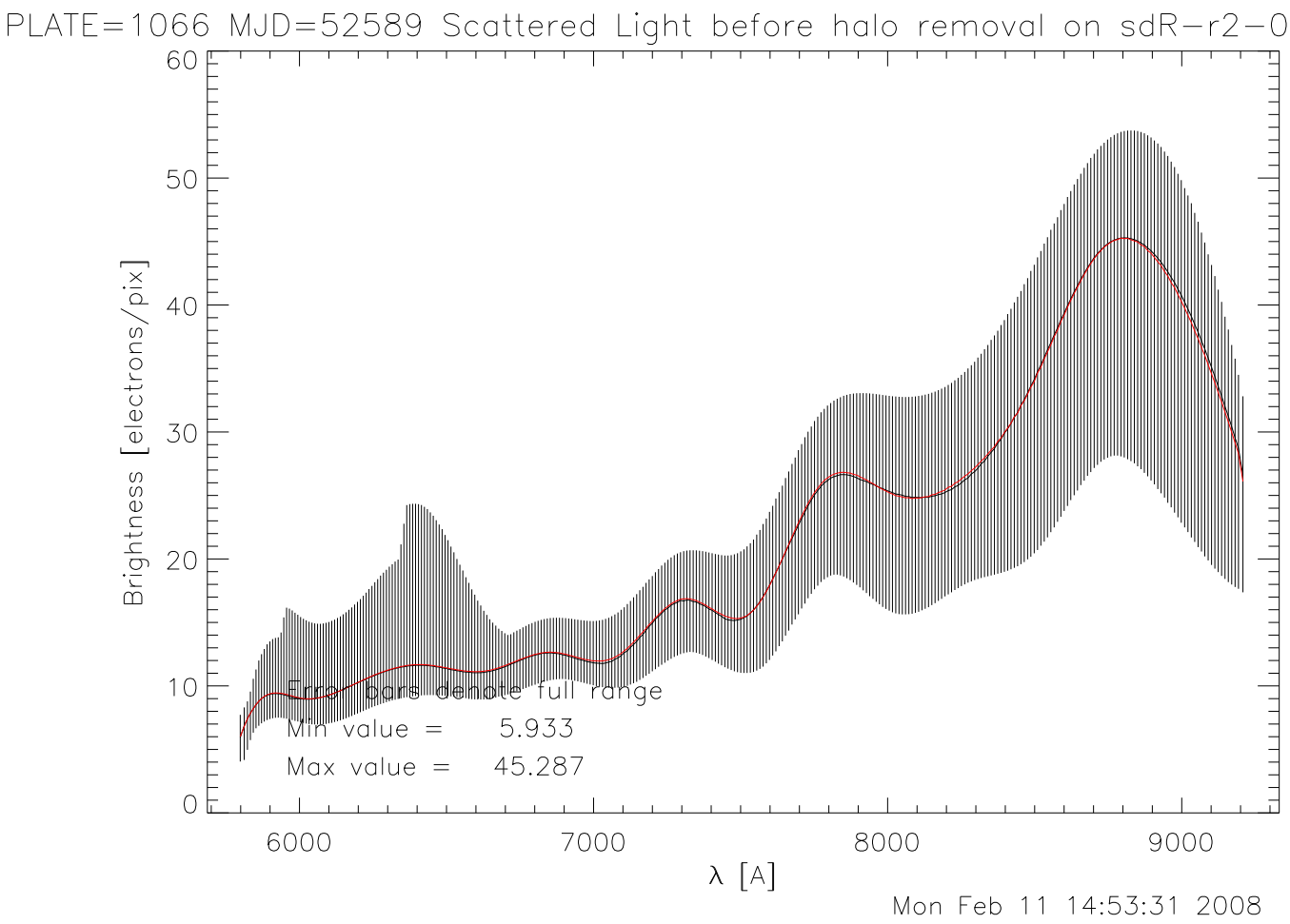

PLATE=1066 MJD=52589 flat extraction chi^2 for sdR−r2−00016909.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

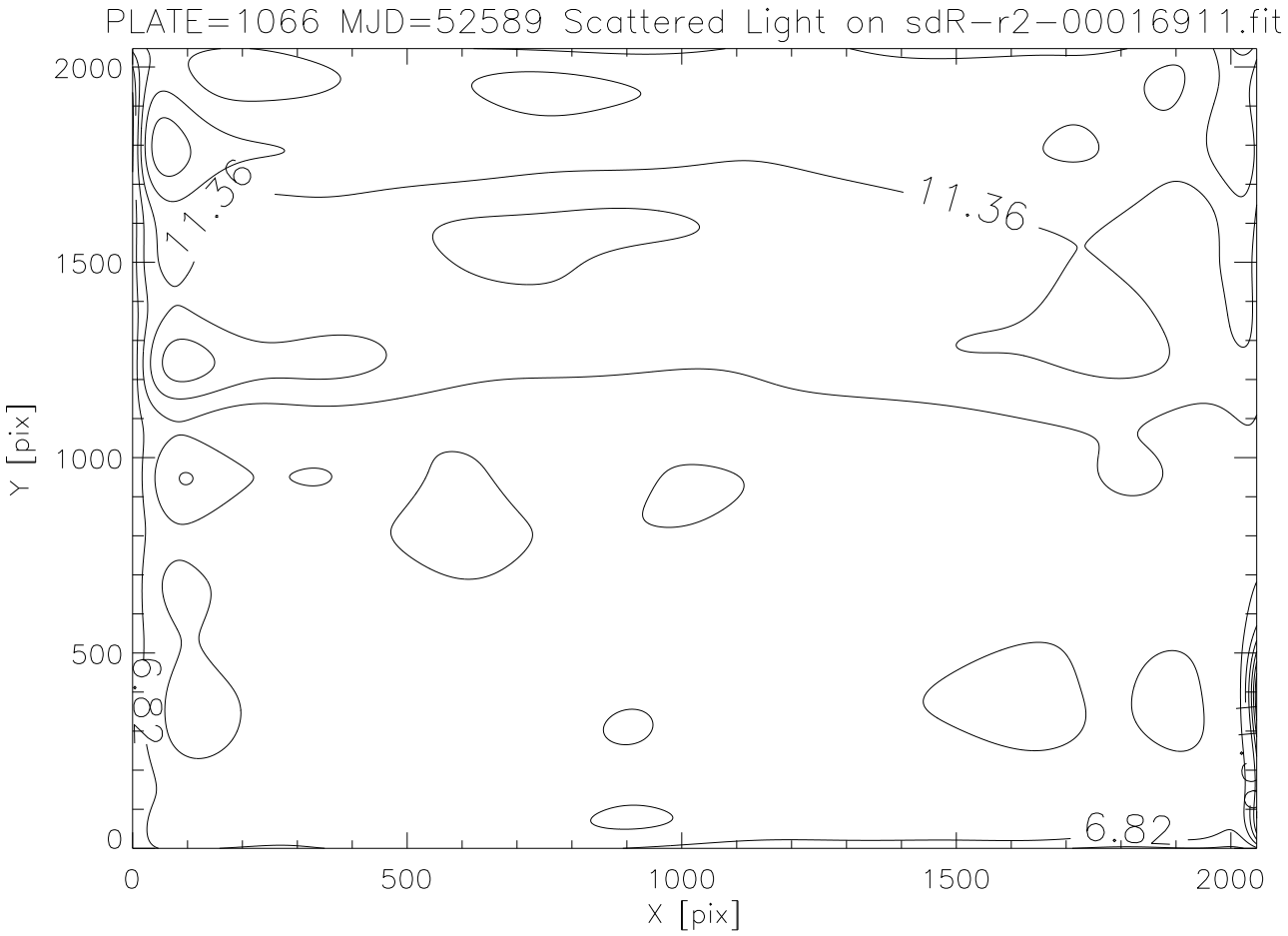

PLATE=1066 MJD=52589 Superflat sdR-r2-00016909.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

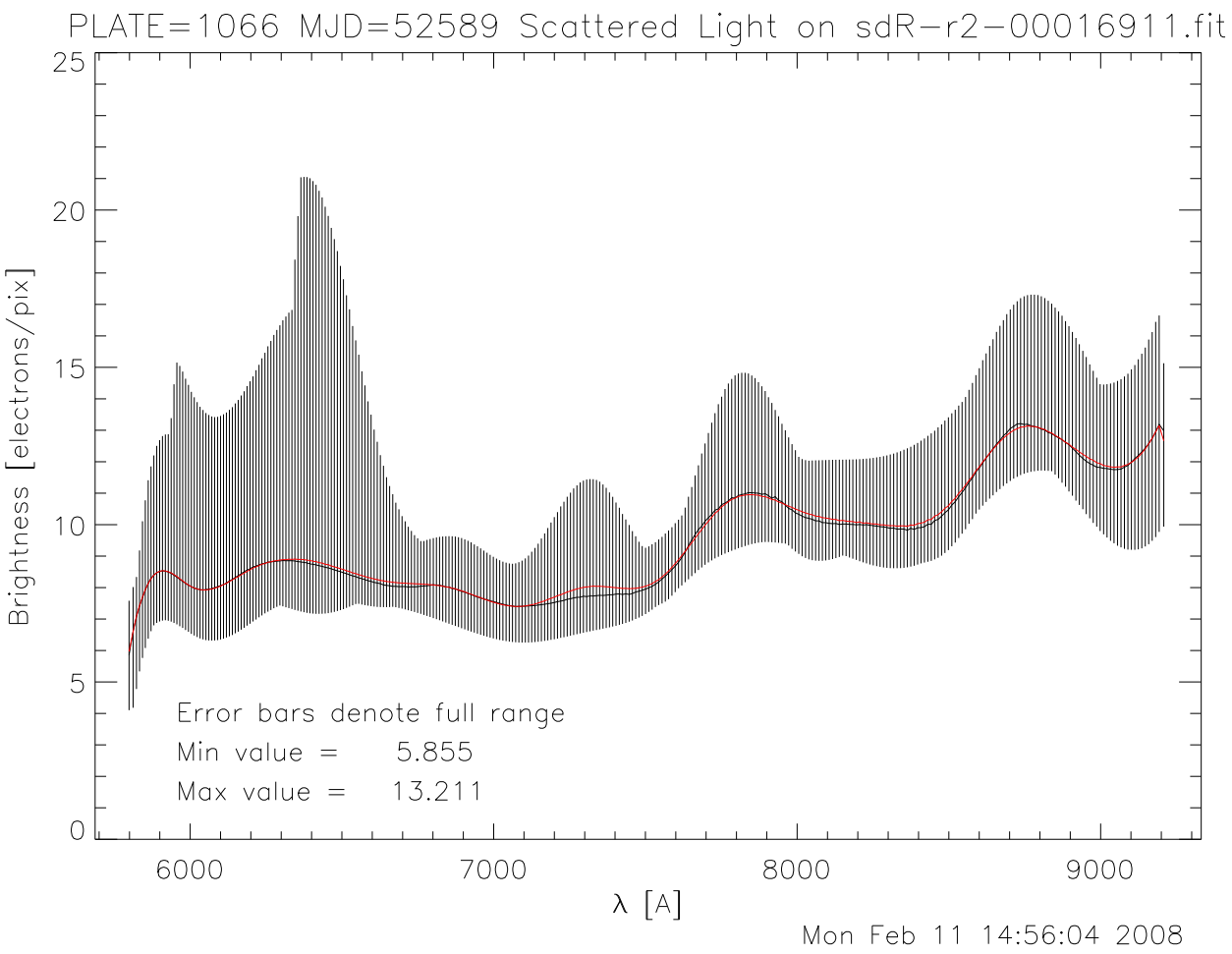

PLATE=1066 MJD=52589 Arcline Fit for sdR-r2-00016910.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 11 14:52:39 2008

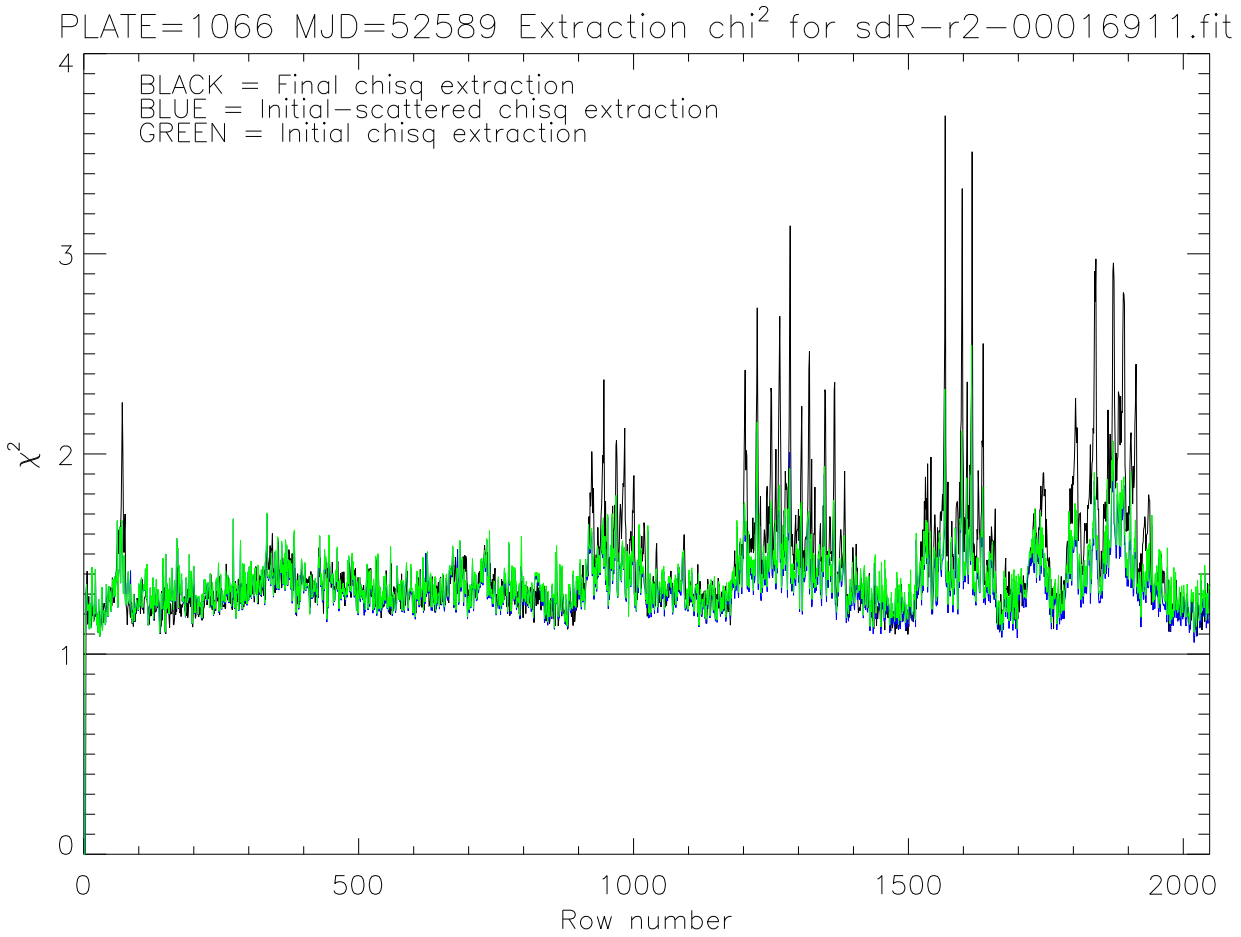

PLATE=1066 MJD=52589 Fiber−Flats for sdR−r2−00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.750
Max value = 1.207
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 14:52:47 2008

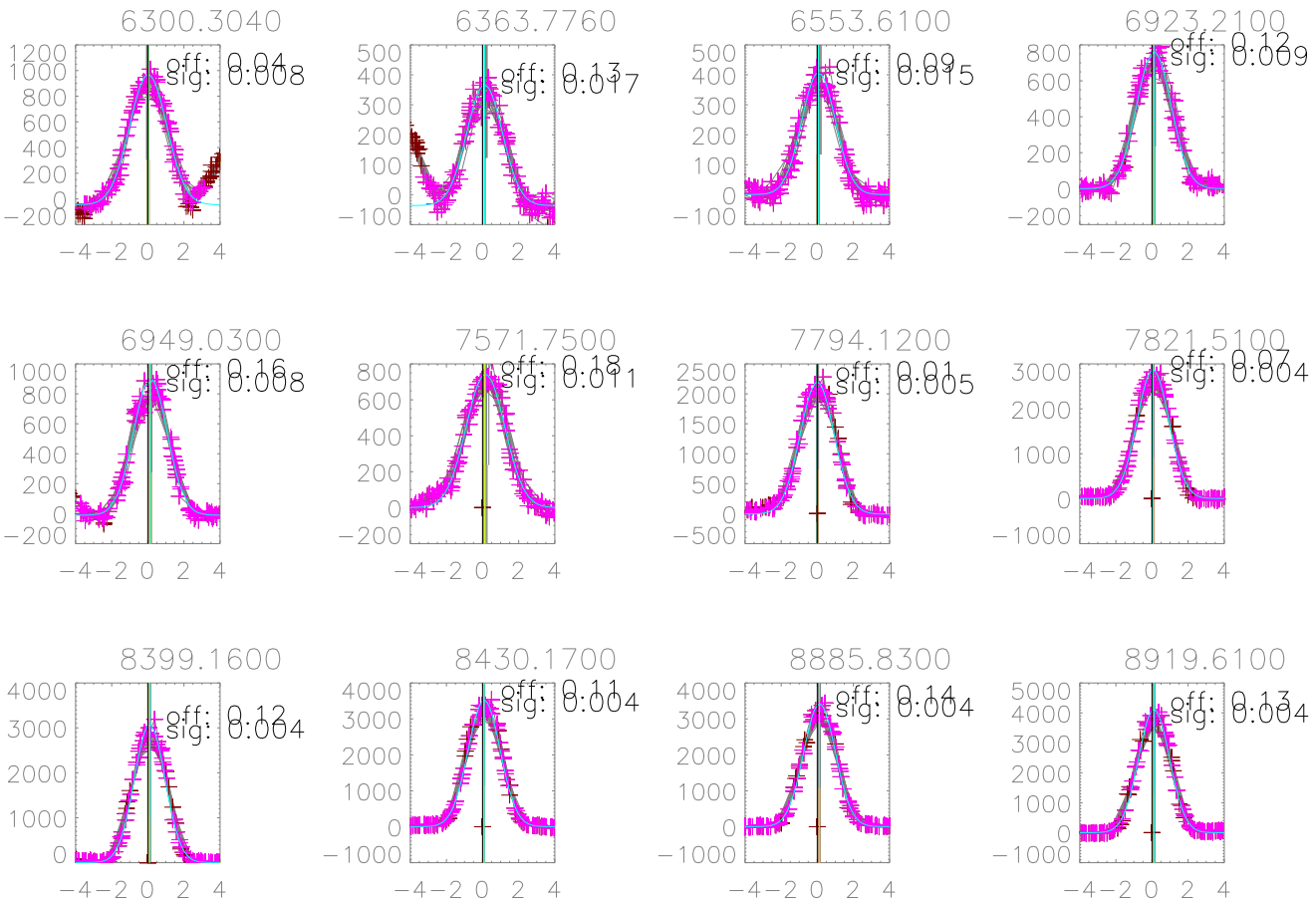

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r2-00016911.fi
38.2
38.2
38.2
27.3
27.3
16.4
16.4
16.4
5.5
5.5
Y [pix]
X [pix]
0
500
1000
1500
2000

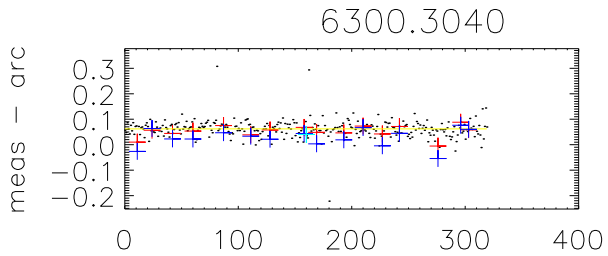

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r2-00016911.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.933
Max value = 45.287
Mon Feb 11 14:53:31 2008

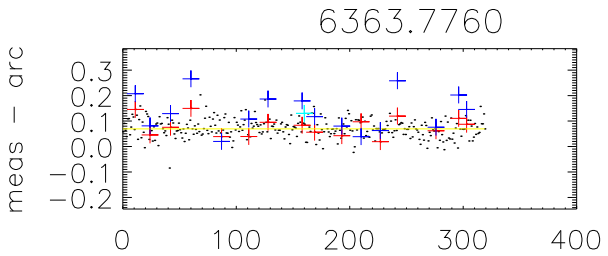

PLATE=1066 MJD=52589 Scattered Light on sdR-r2-00016911.fit
11.36
11.36
6.82
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

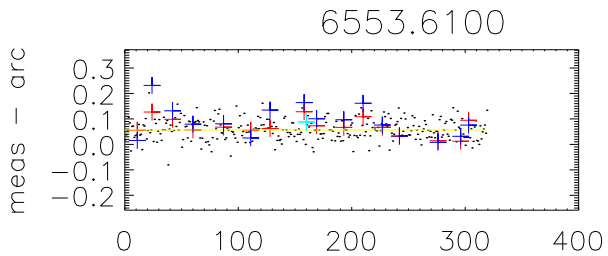

PLATE=1066 MJD=52589 Scattered Light on sdR-r2-00016911.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.855
Max value = 13.211
Mon Feb 11 14:56:04 2008

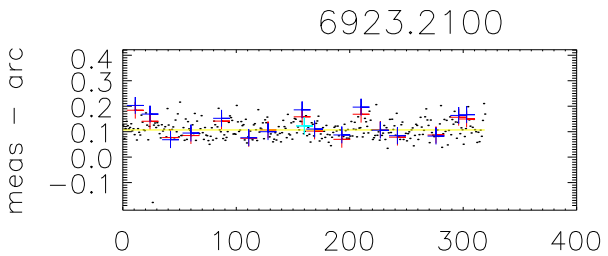

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-r2-00016911.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

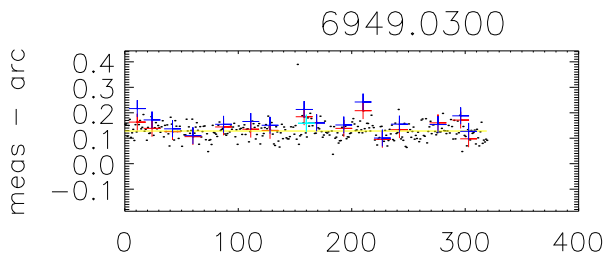

6300.3040
off: 0.04
sig: 0.008
6363.7760
off: 0.13
sig: 0.017
6553.6100
off: 0.09
sig: 0.015
6923.2100
off: 0.12
sig: 0.009
6949.0300
off: 0.16
sig: 0.008
7571.7500
off: 0.18
sig: 0.011
7794.1200
off: 0.01
sig: 0.005
7821.5100
off: 0.07
sig: 0.004
8399.1600
off: 0.12
sig: 0.004
8430.1700
off: 0.11
sig: 0.004
8885.8300
off: 0.14
sig: 0.004
8919.6100
off: 0.13
sig: 0.004

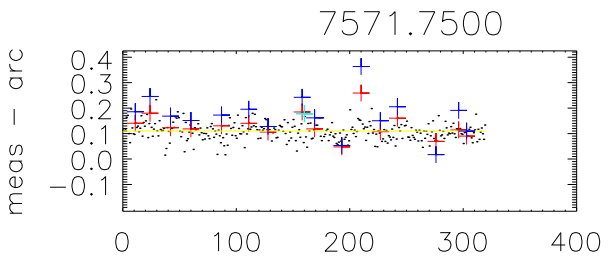

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

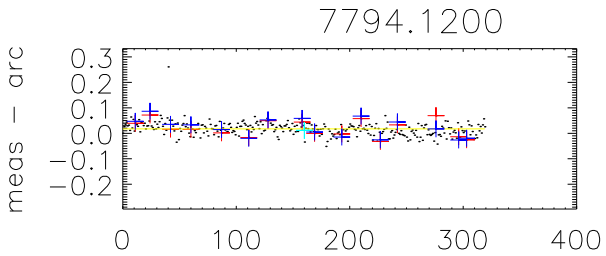

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

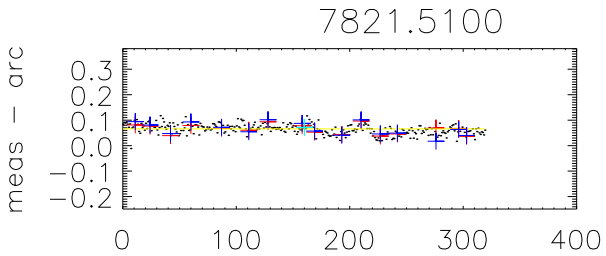

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

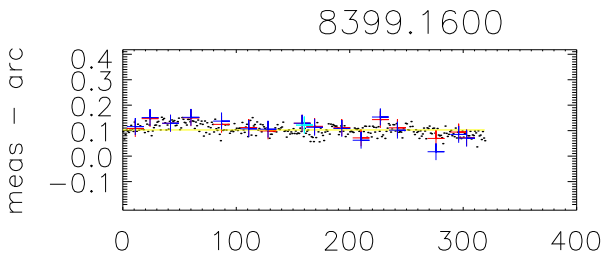

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

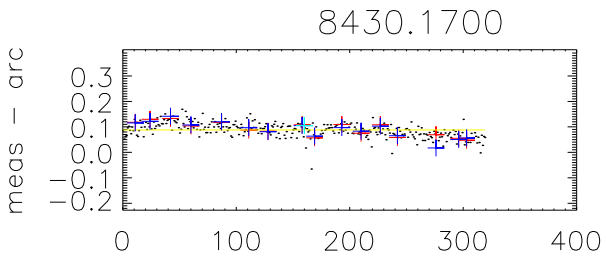

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

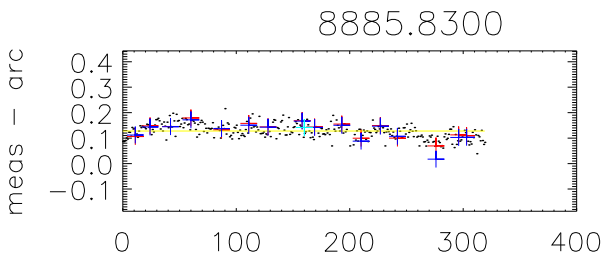

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

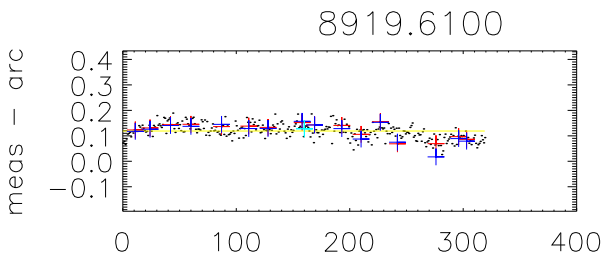

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

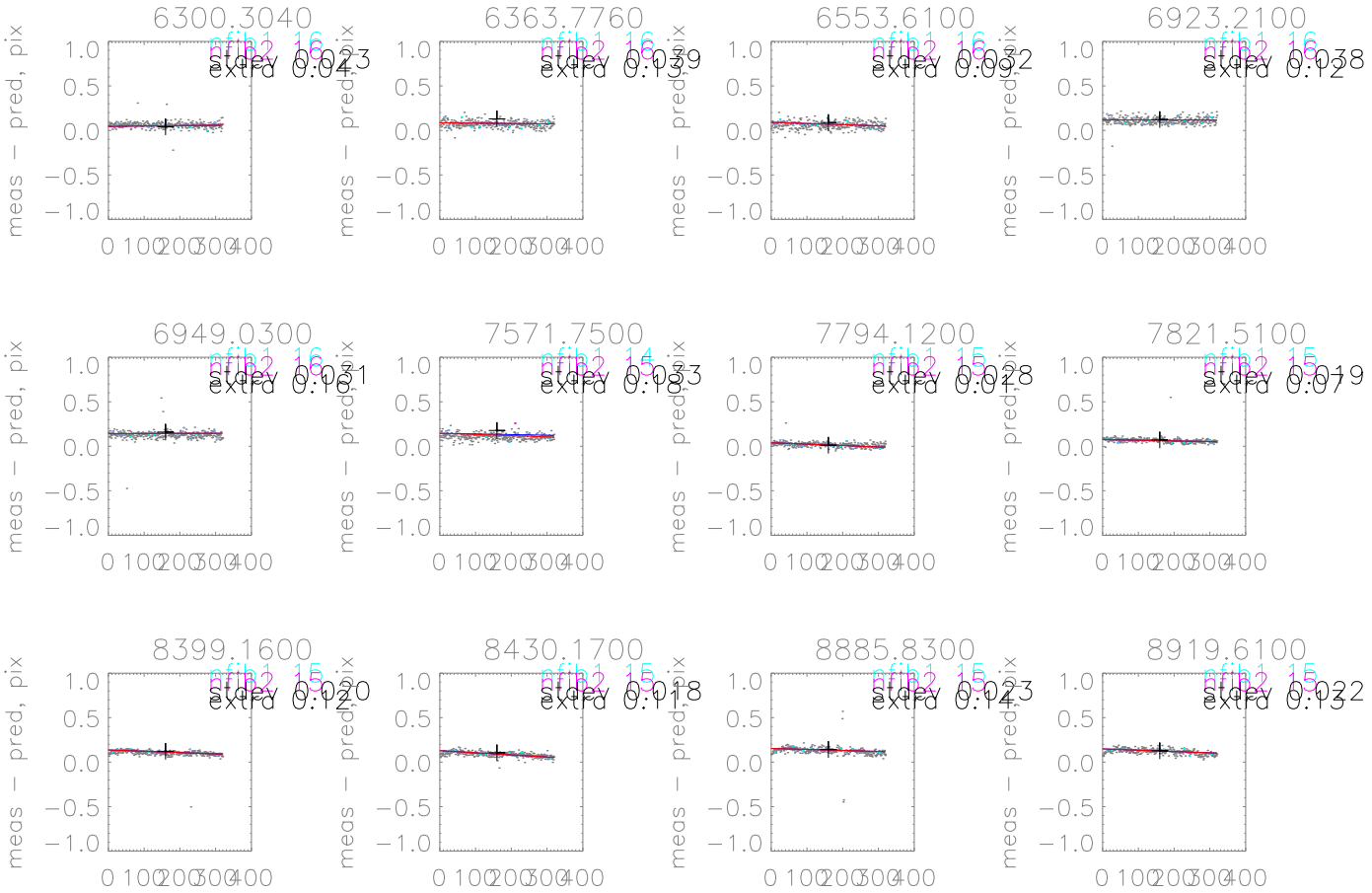

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

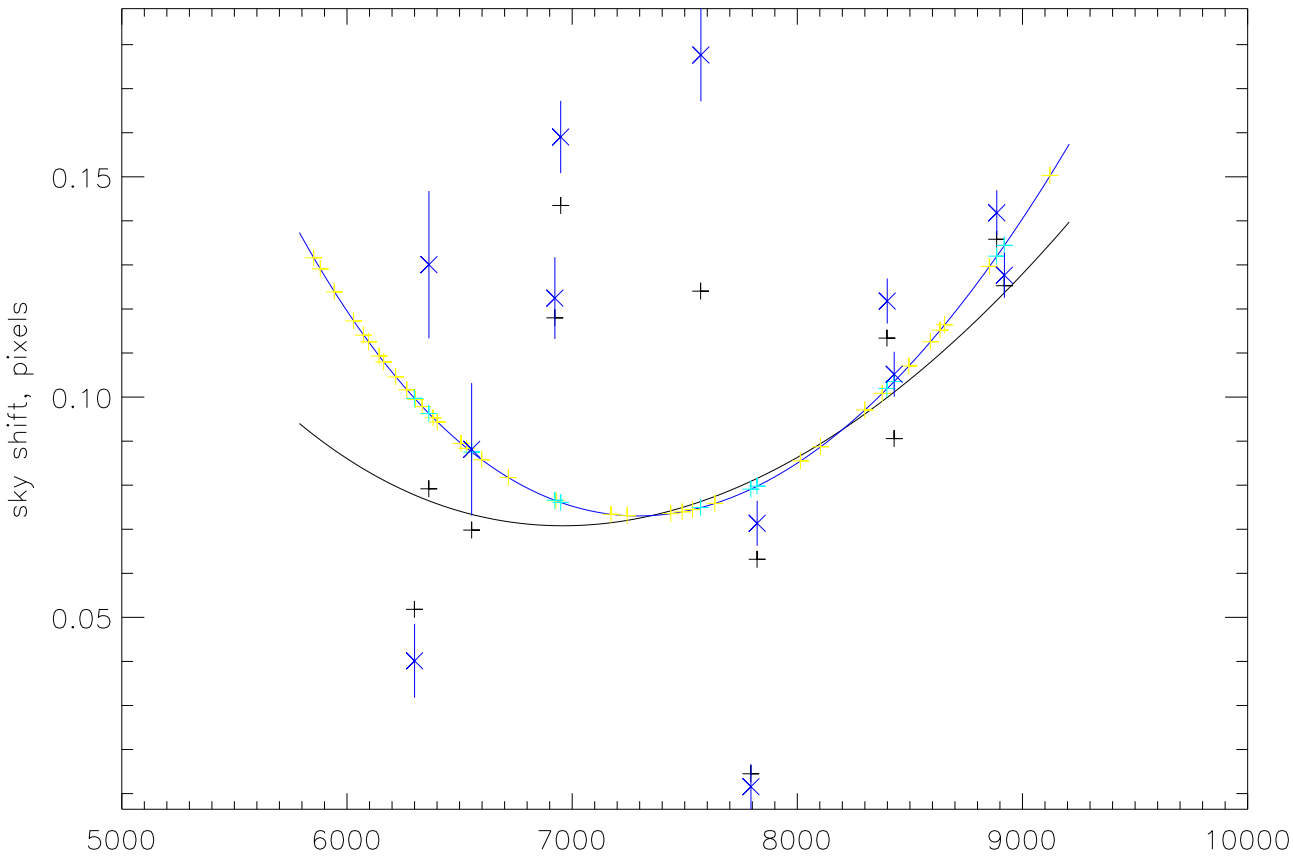

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

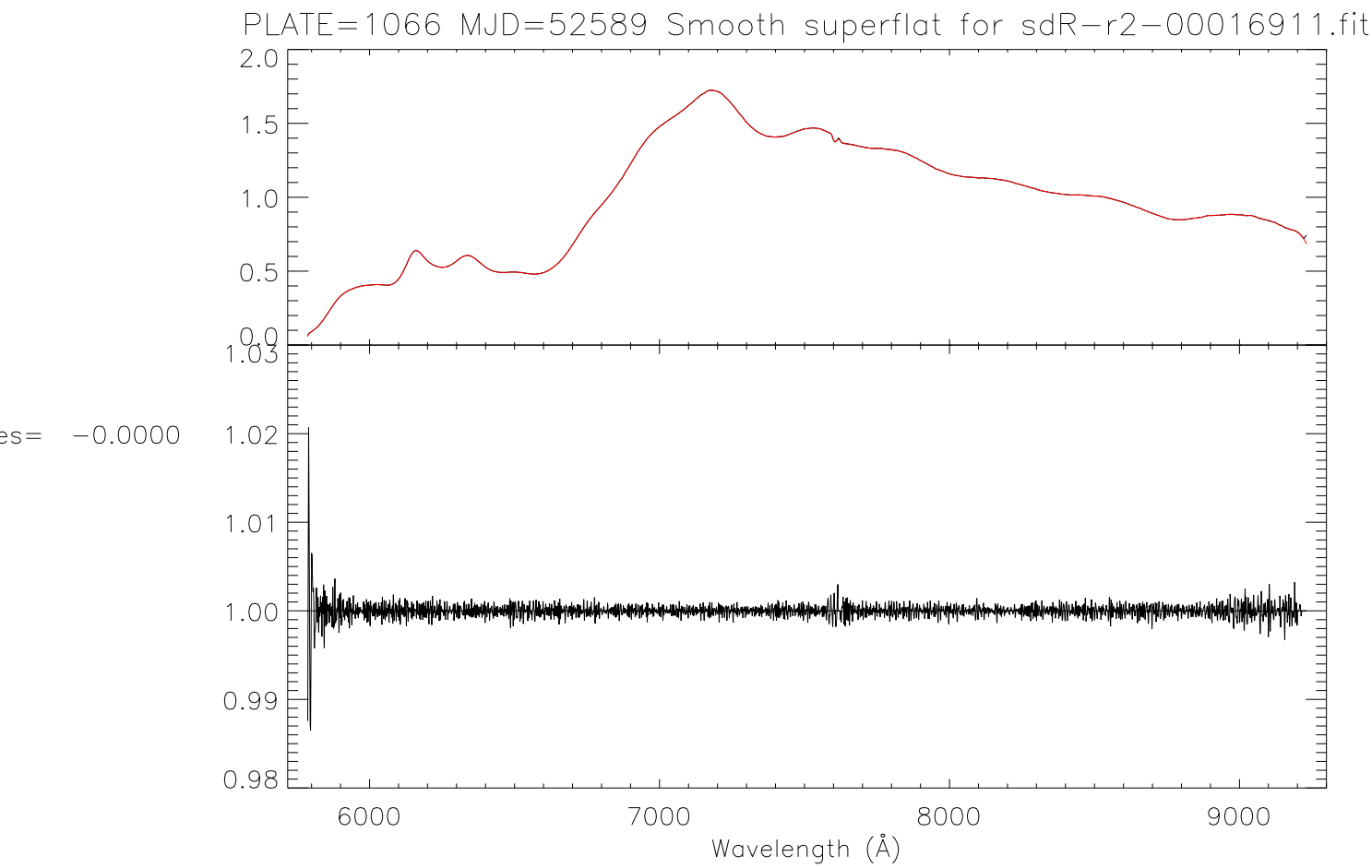

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

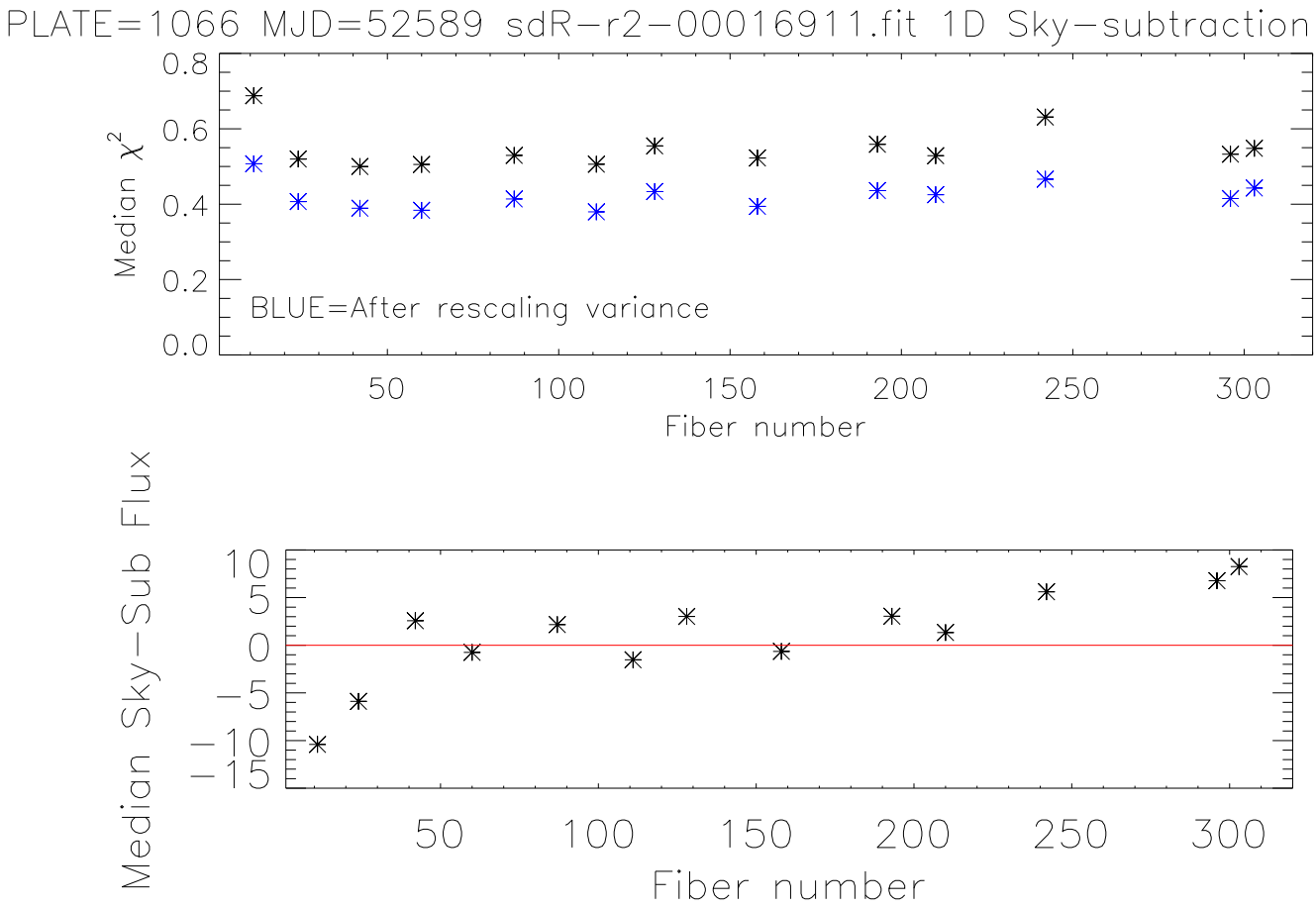

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

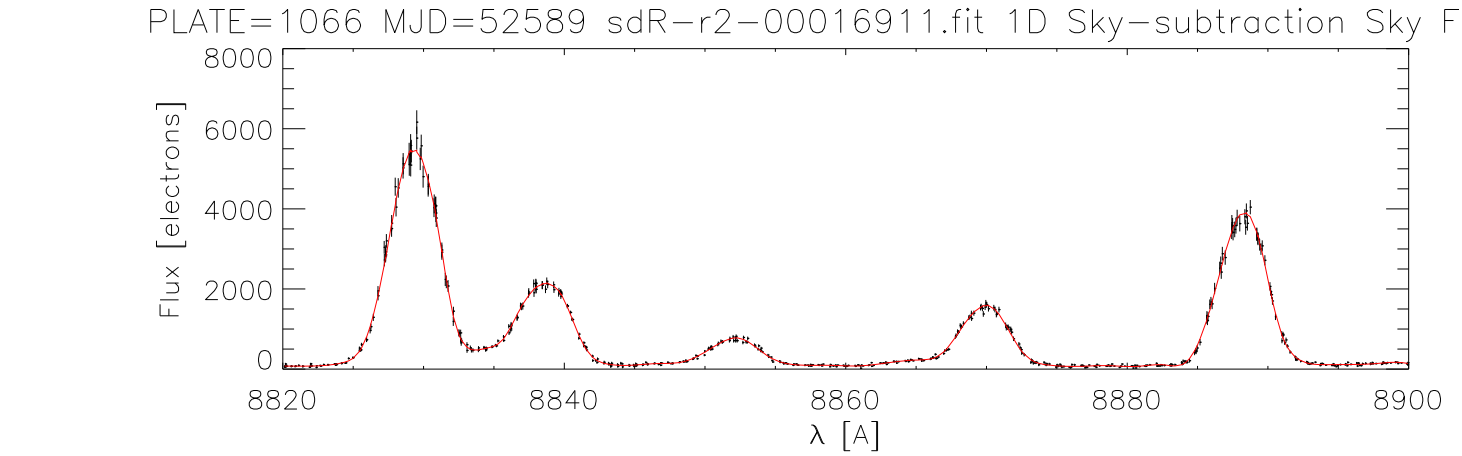

6300.3040
mfib1 16
mfib2 16
stdev 0.023
extra 0.04
6363.7760
mfib1 16
mfib2 16
stdev 0.039
extra 0.139
6553.6100
mfib1 16
mfib2 16
stdev 0.032
extra 0.092
6923.2100
mfib1 16
mfib2 16
stdev 0.038
extra 0.12
6949.0300
mfib1 16
mfib2 16
stdev 0.031
extra 0.161
7571.7500
mfib1 14
mfib2 15
stdev 0.033
extra 0.118
7794.1200
mfib1 15
mfib2 15
stdev 0.028
extra 0.071
7821.5100
mfib1 15
mfib2 15
stdev 0.019
extra 0.07
8399.1600
mfib1 15
mfib2 15
stdev 0.020
extra 0.12
8430.1700
mfib1 15
mfib2 15
stdev 0.018
extra 0.111
8885.8300
mfib1 15
mfib2 15
stdev 0.023
extra 0.14
8919.6100
mfib1 15
mfib2 15
stdev 0.022
extra 0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

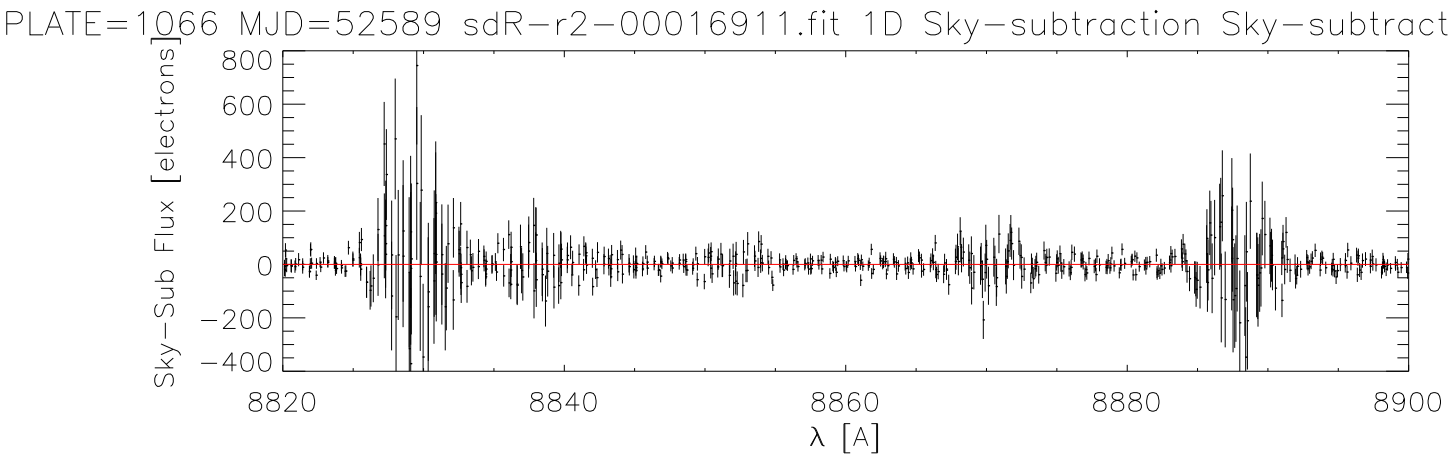

sky shift, pixels
0.15
0.10
0.05
5000
6000
7000
8000
9000
10000

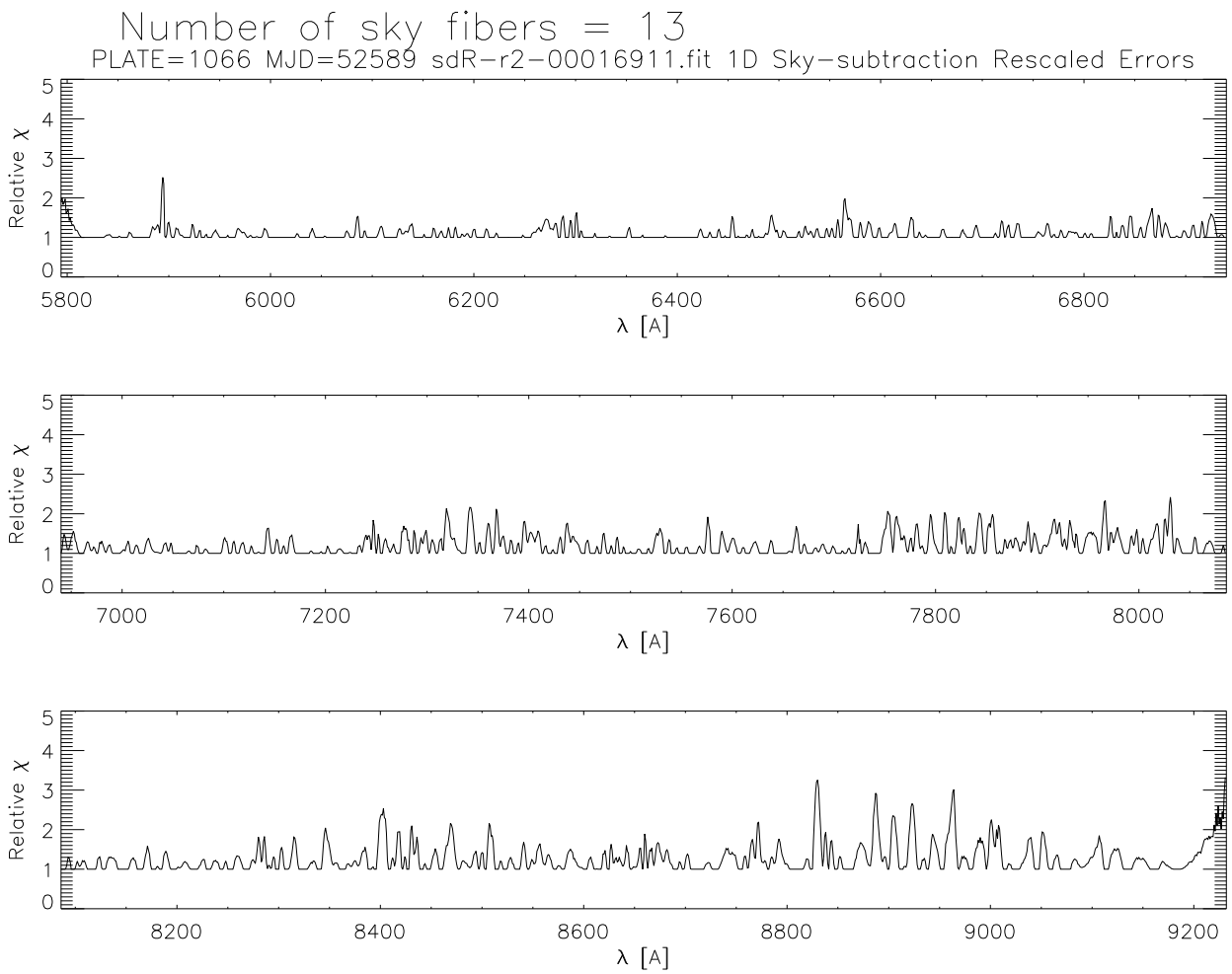

PLATE=1066 MJD=52589 Smooth superflat for sdR-r2-00016911.fit
2.0
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
6000
7000
8000
9000
Wavelength (Å)

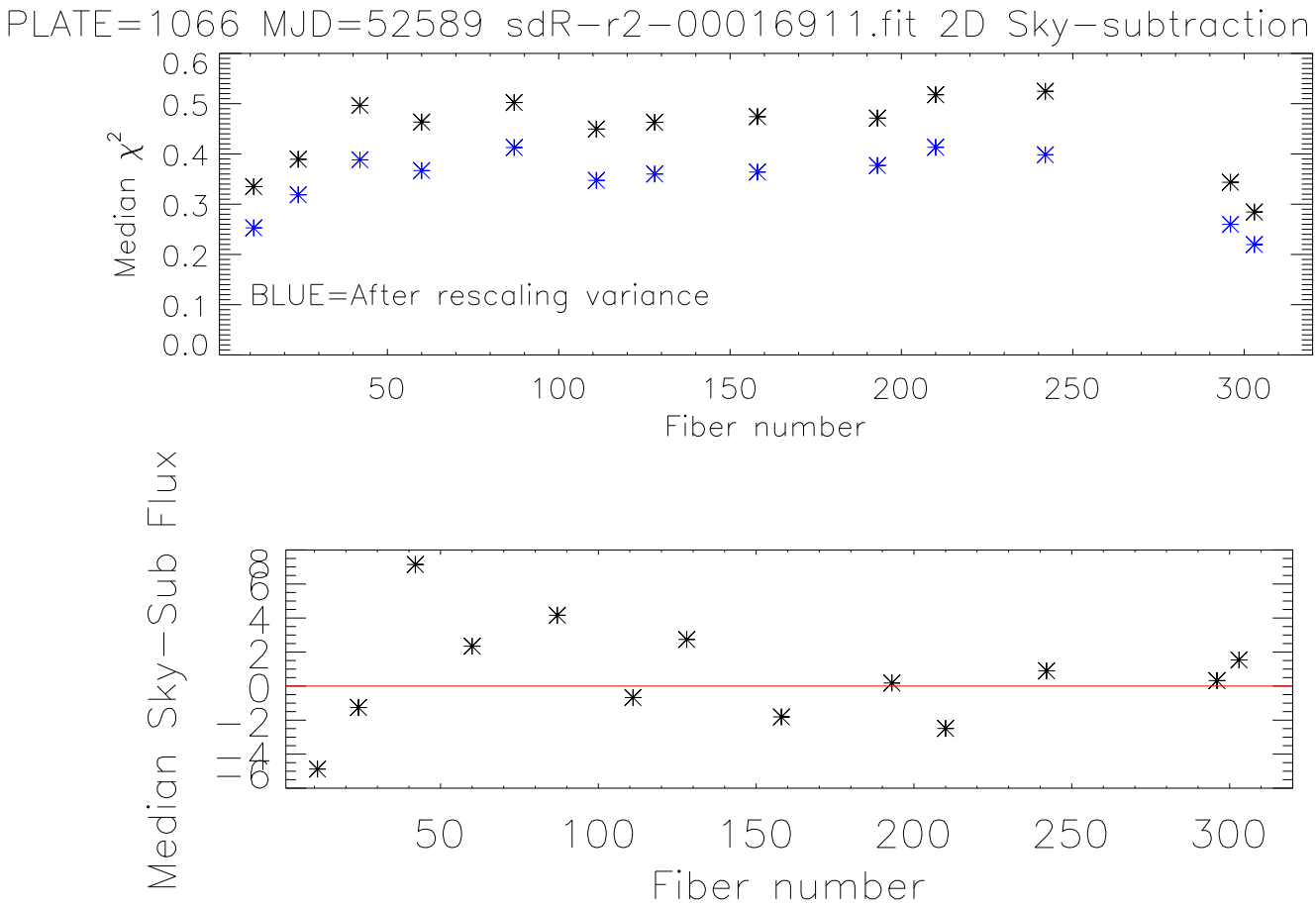
es= −0.0000

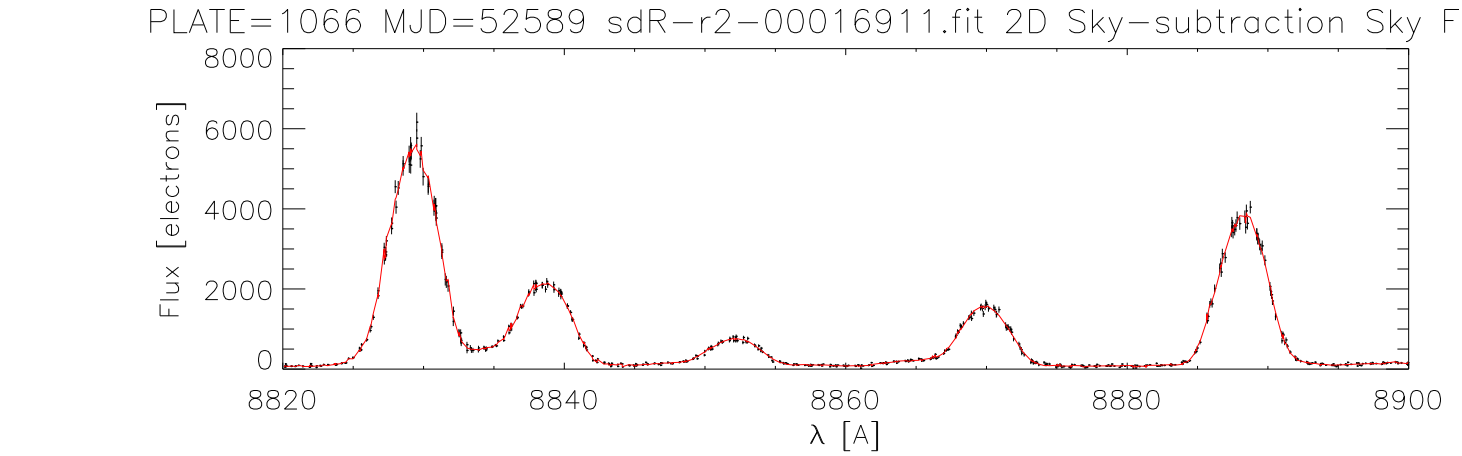

PLATE=1066 MJD=52589 sdR-r2-00016911.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

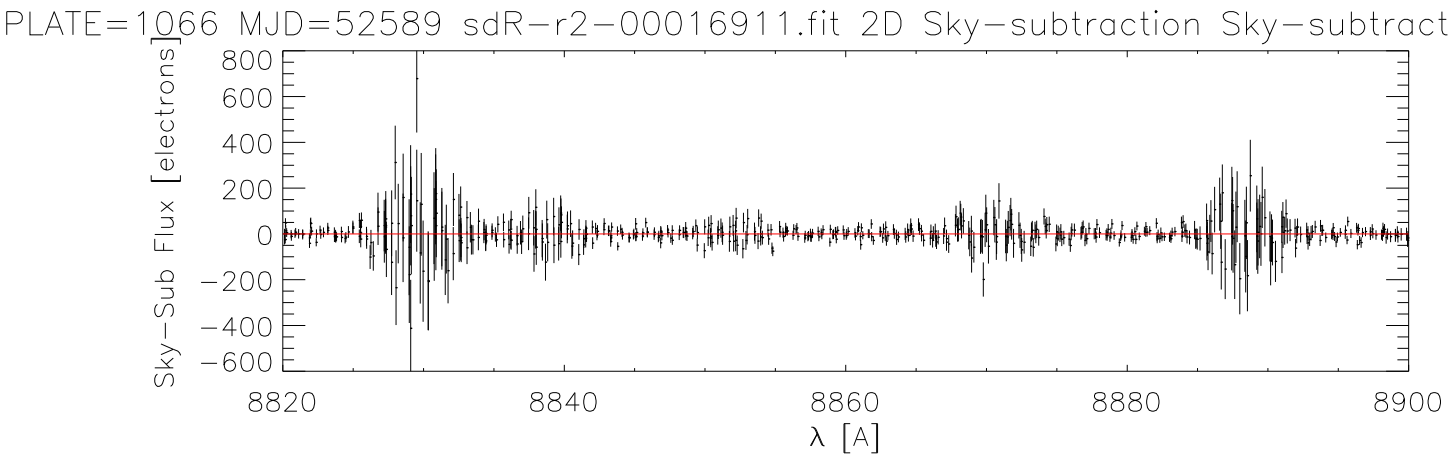

PLATE=1066 MJD=52589 sdR-r2-00016911.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

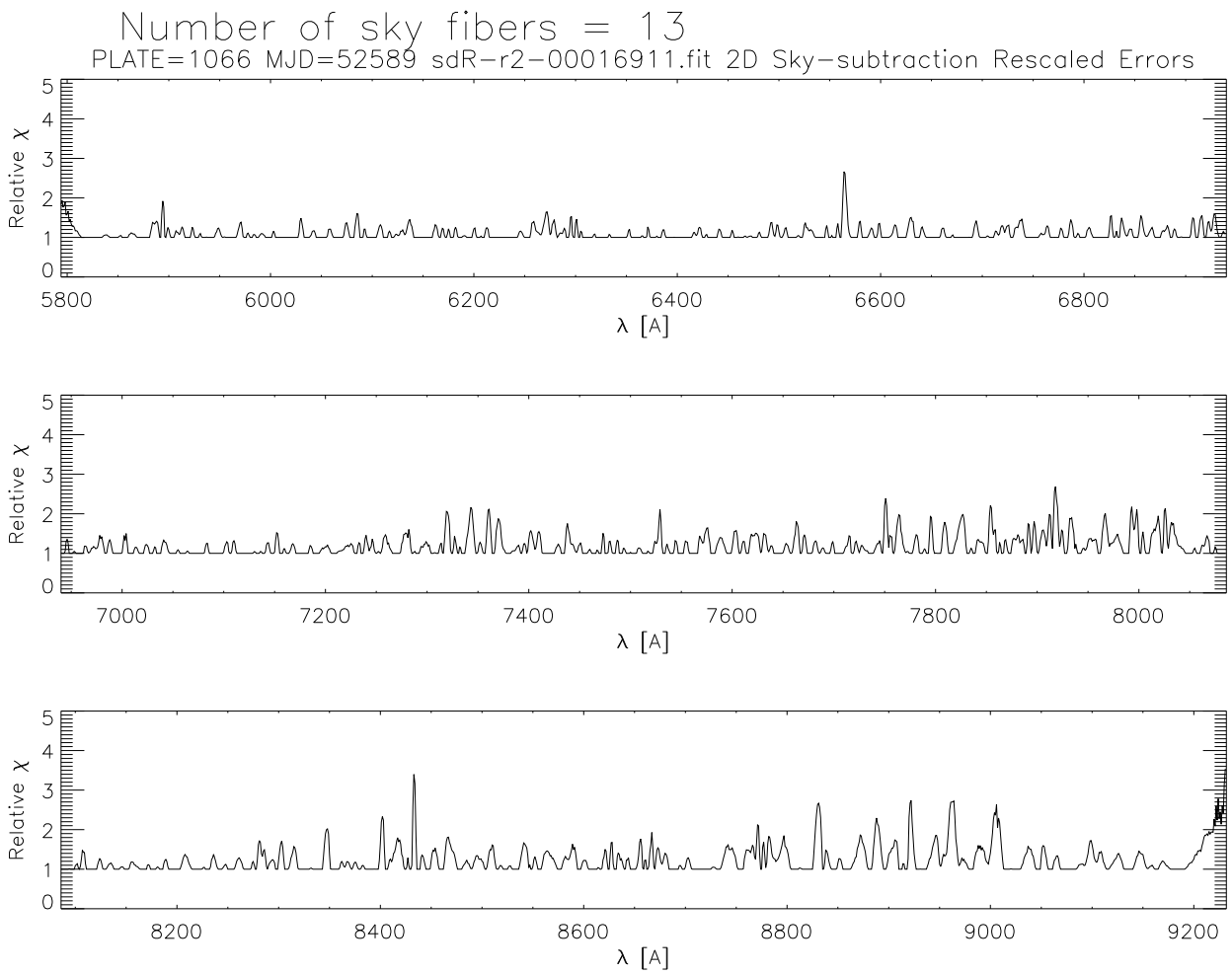

PLATE=1066 MJD=52589 sdR-r2-00016911.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

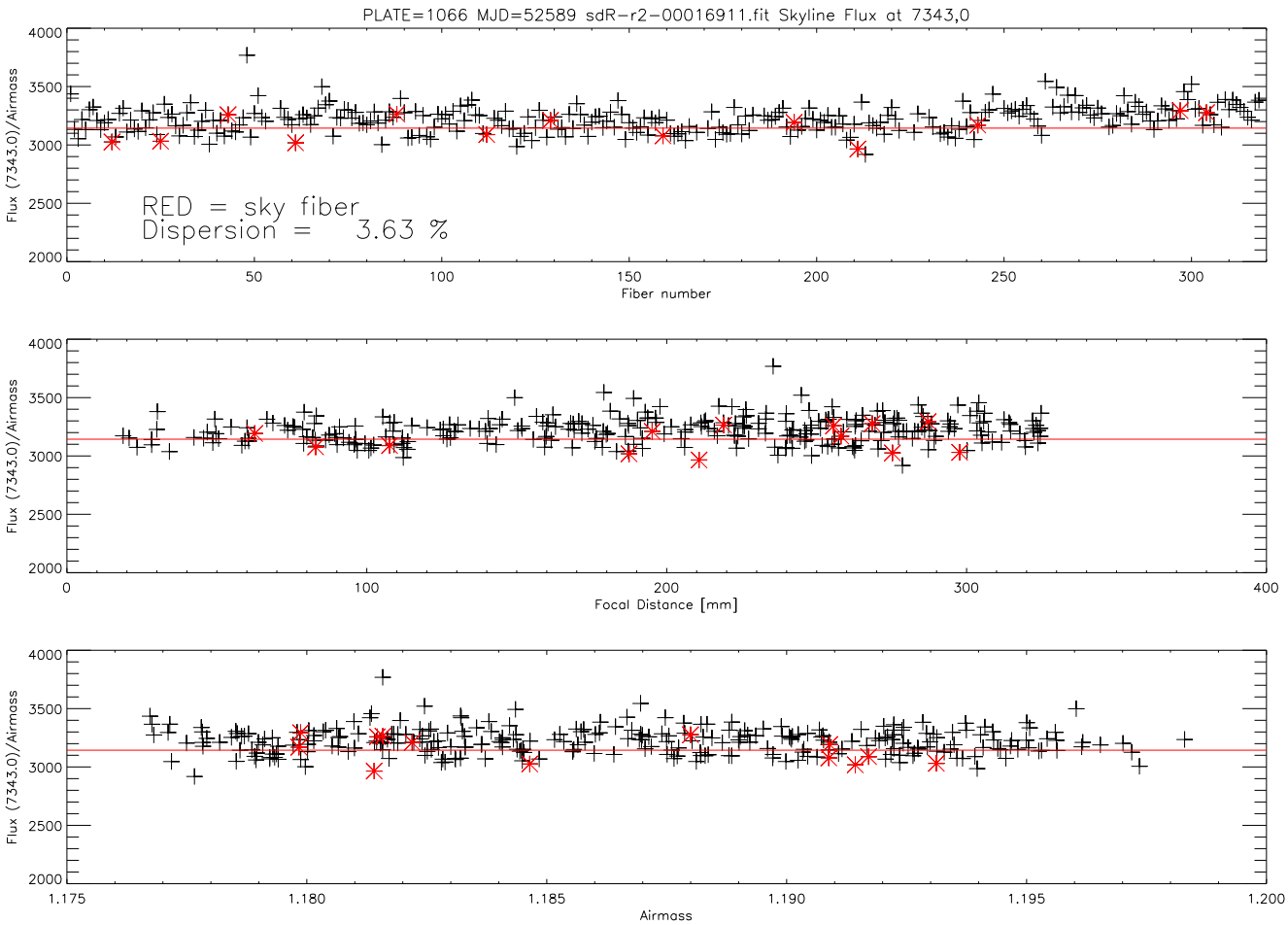

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r2-00016911.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

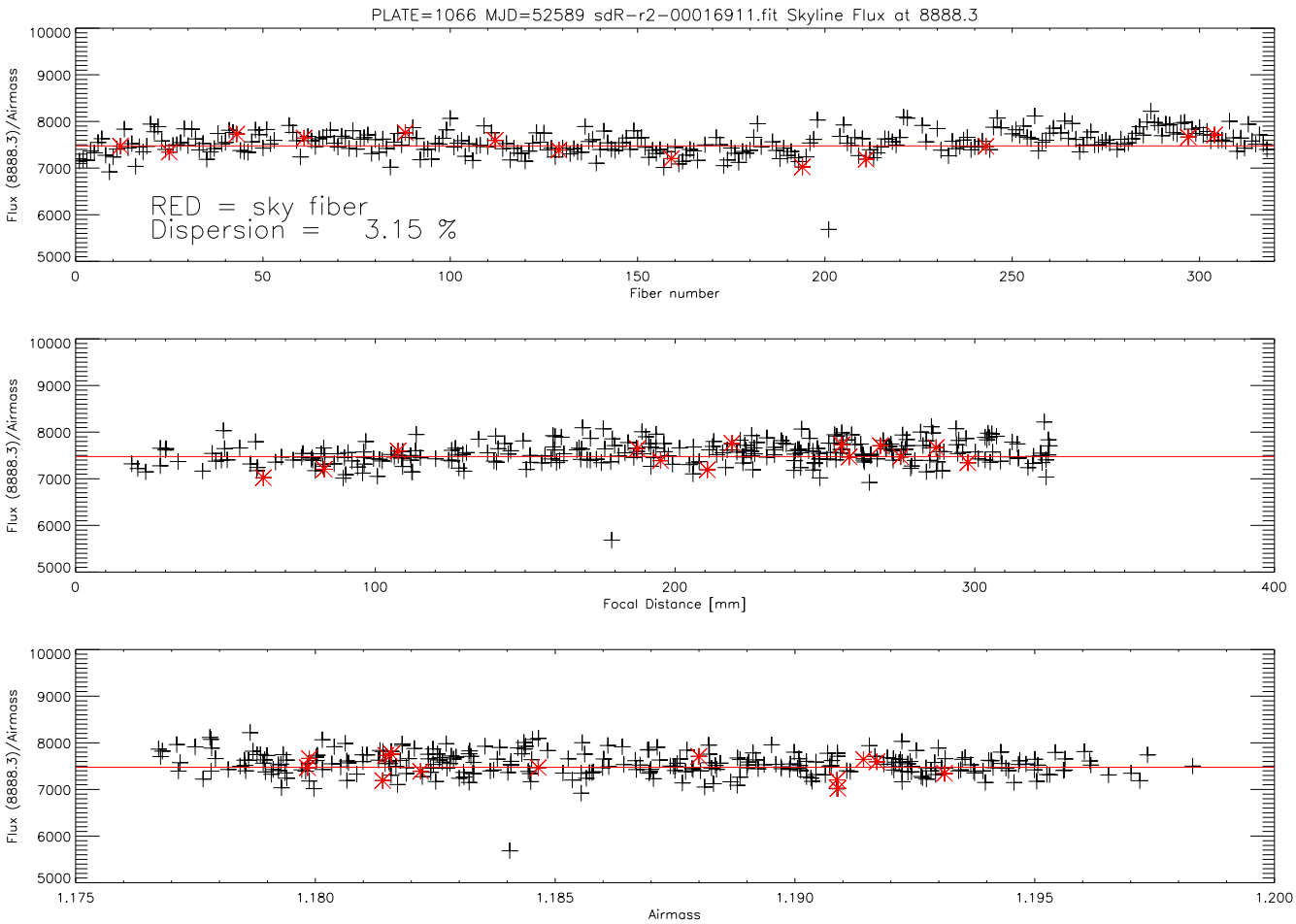

PLATE=1066 MJD=52589 sdR-r2-00016911.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-11
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

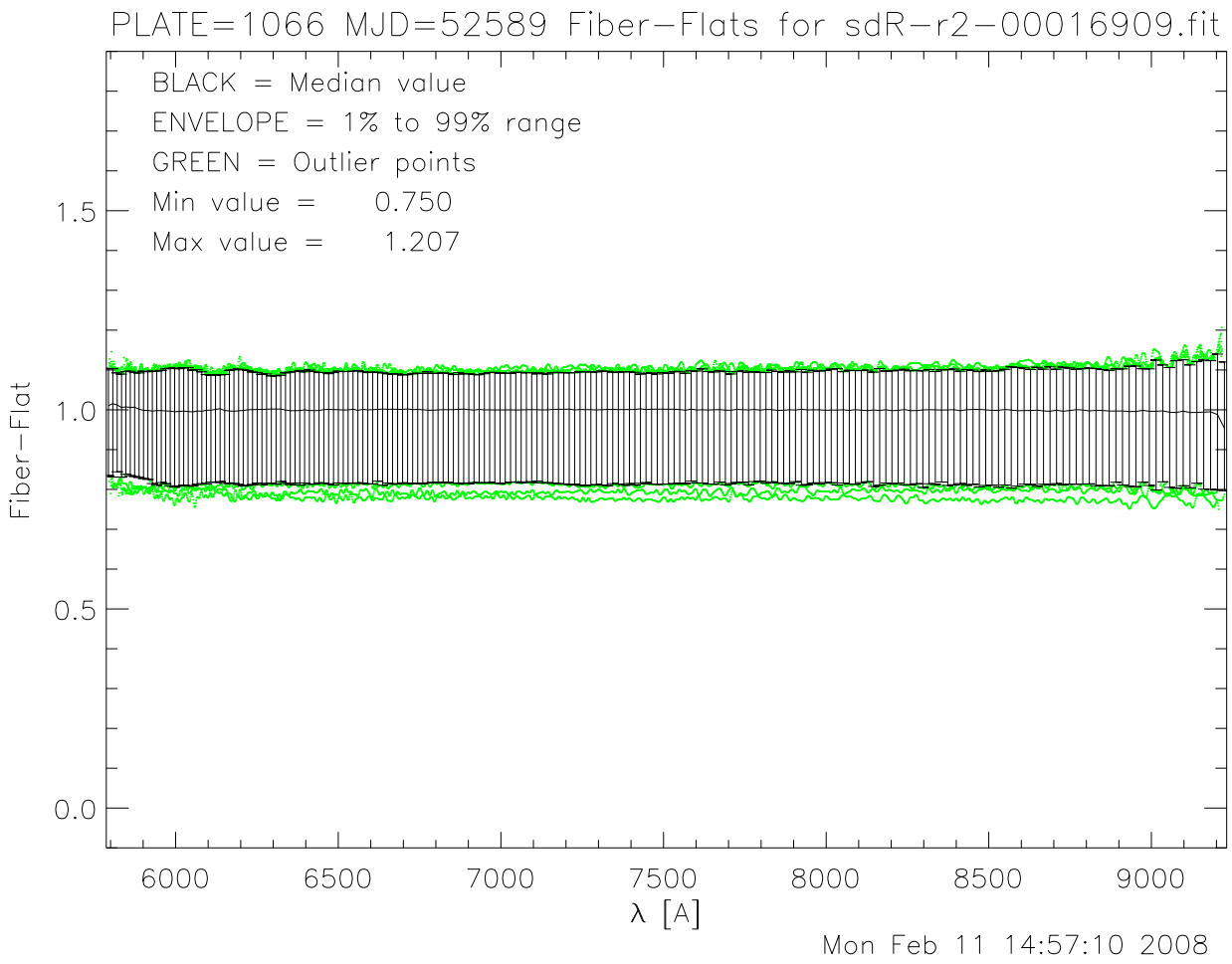

PLATE=1066 MJD=52589 sdR-r2-00016911.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

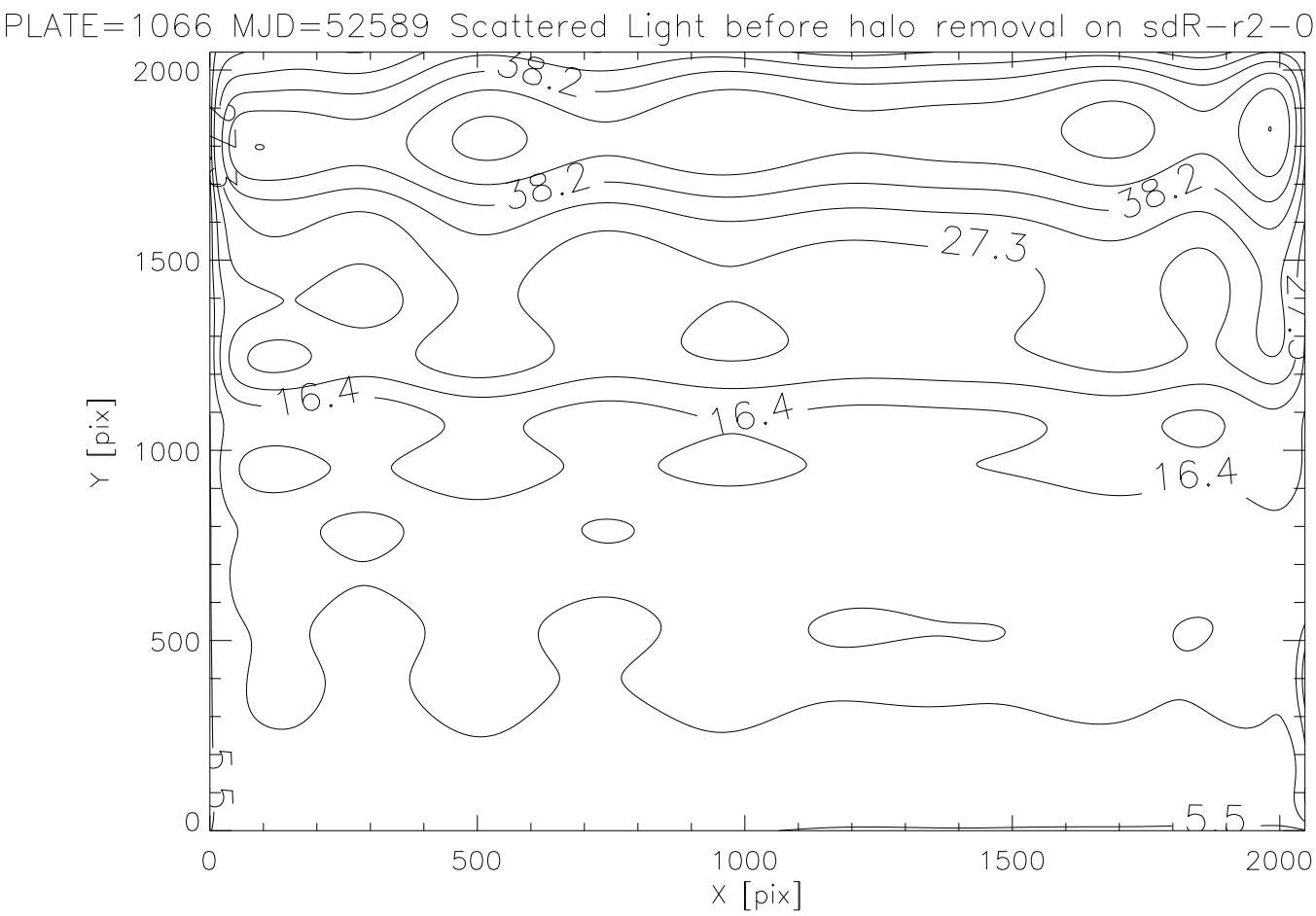

PLATE=1066 MJD=52589 sdR-r2-00016911.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

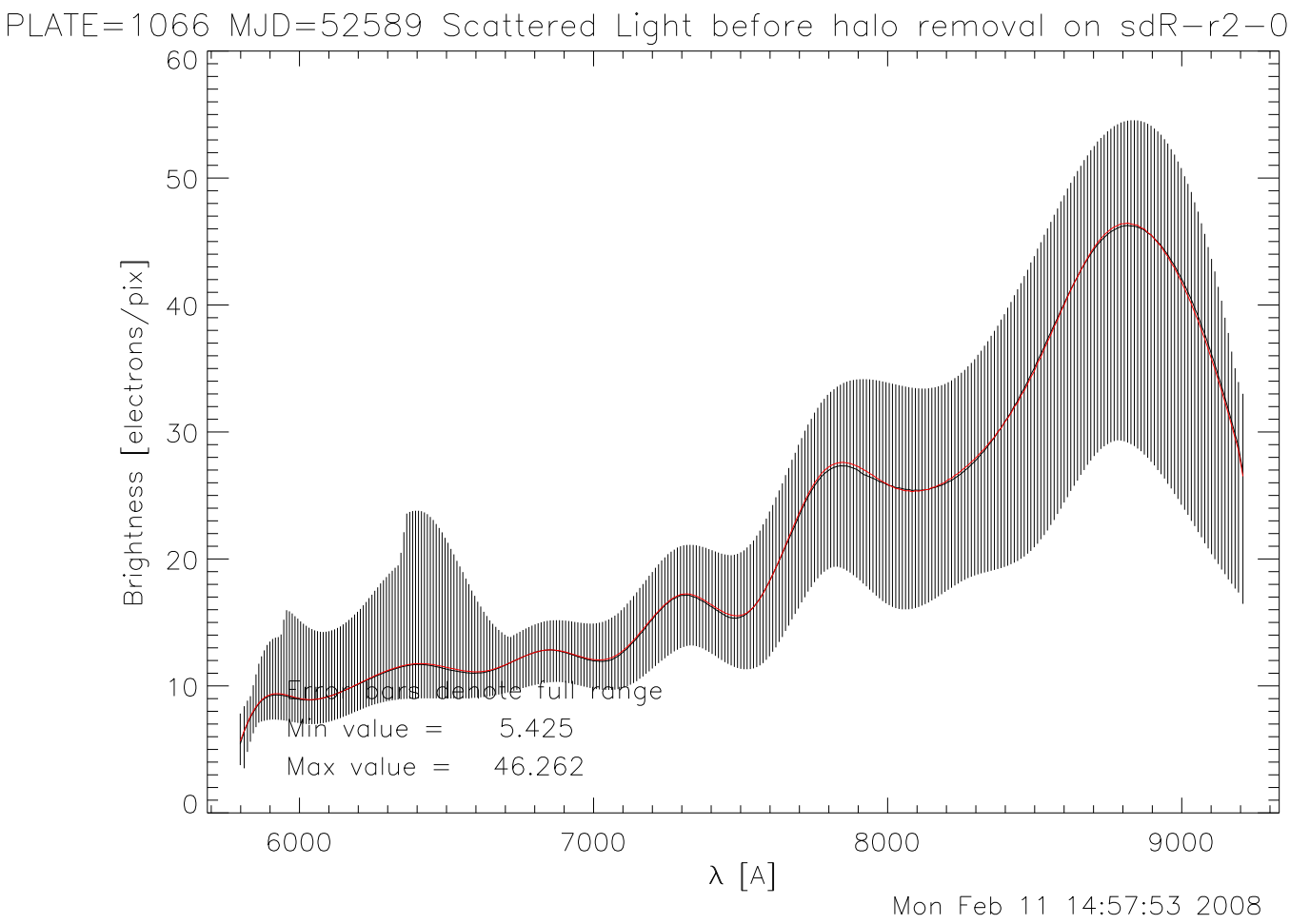

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r2-00016911.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

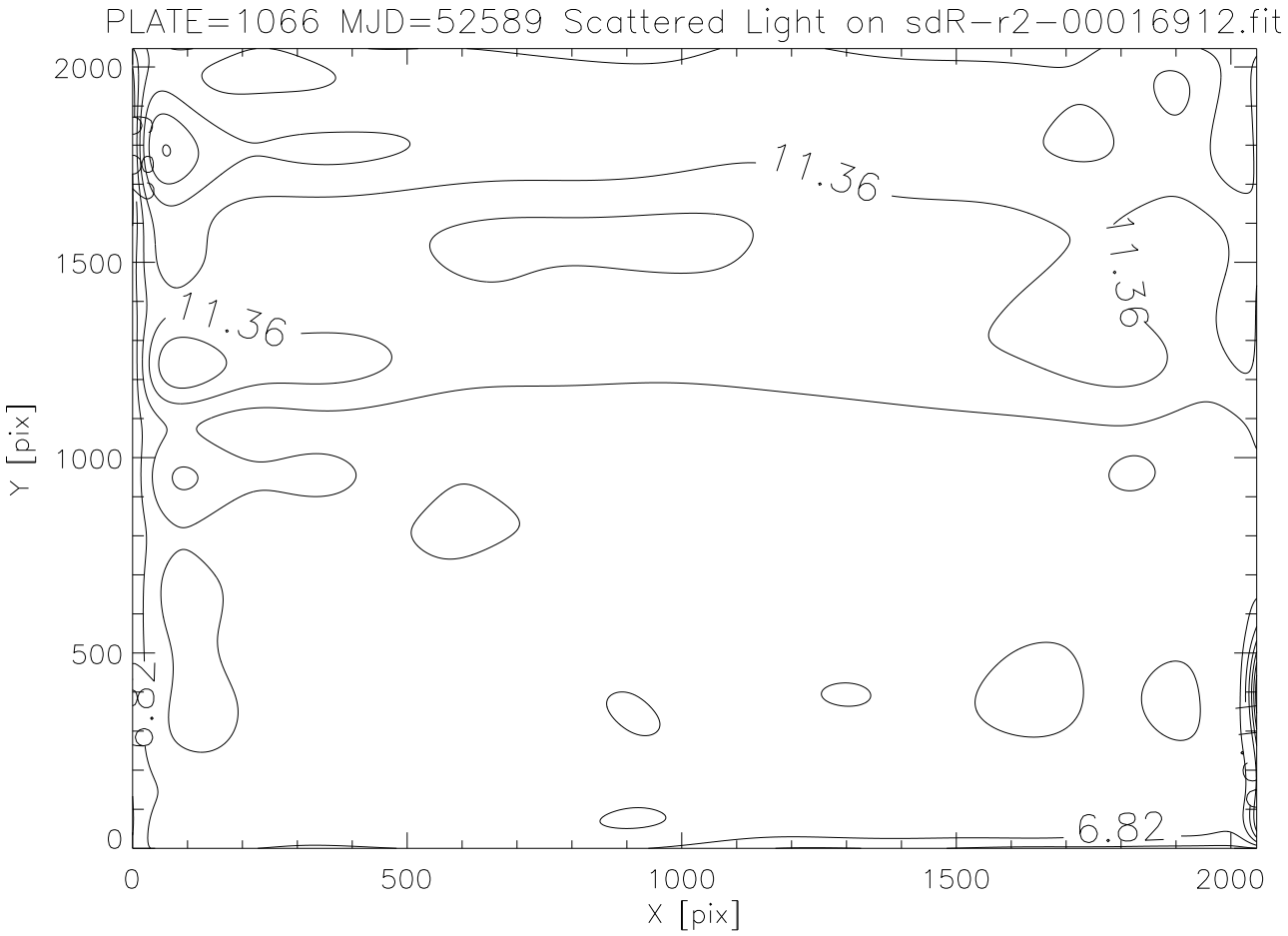

PLATE=1066 MJD=52589 sdR-r2-00016911.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.63 %
Fiber number
Focal Distance [mm]
Airmass

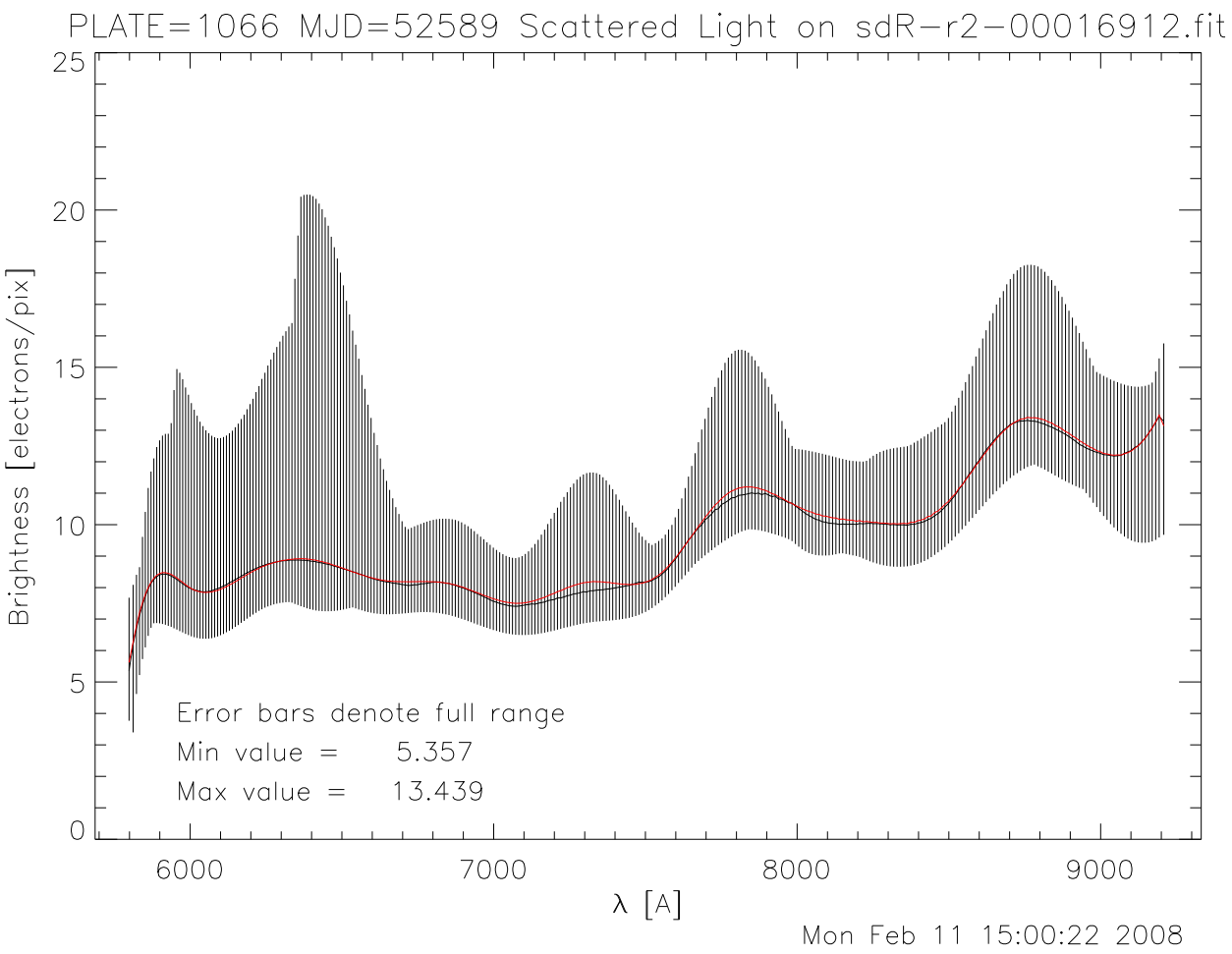

PLATE=1066 MJD=52589 sdR-r2-00016911.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.15 %
Fiber number
Focal Distance [mm]
Airmass

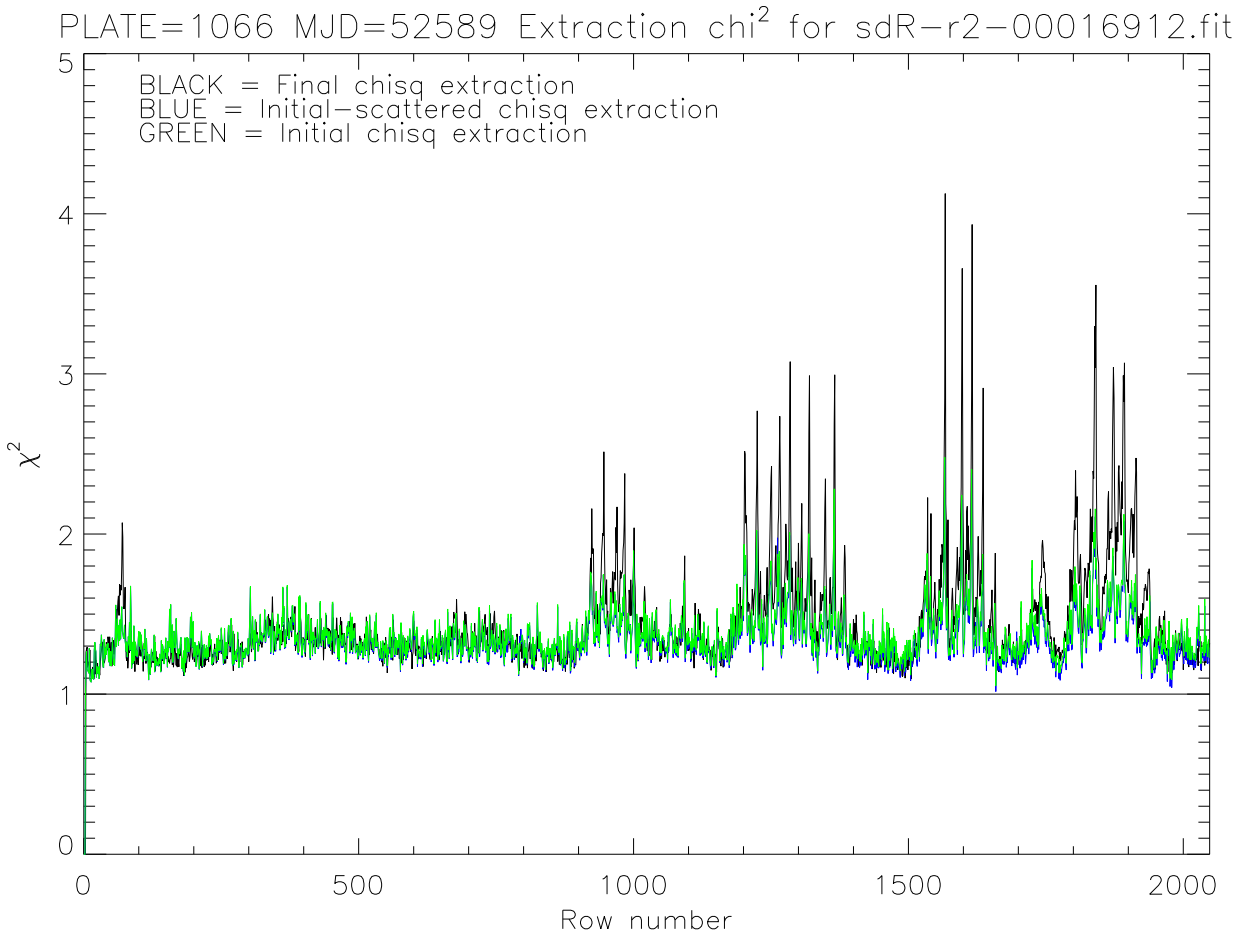

PLATE=1066 MJD=52589 Fiber−Flats for sdR−r2−00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.750
Max value = 1.207
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 14:57:10 2008

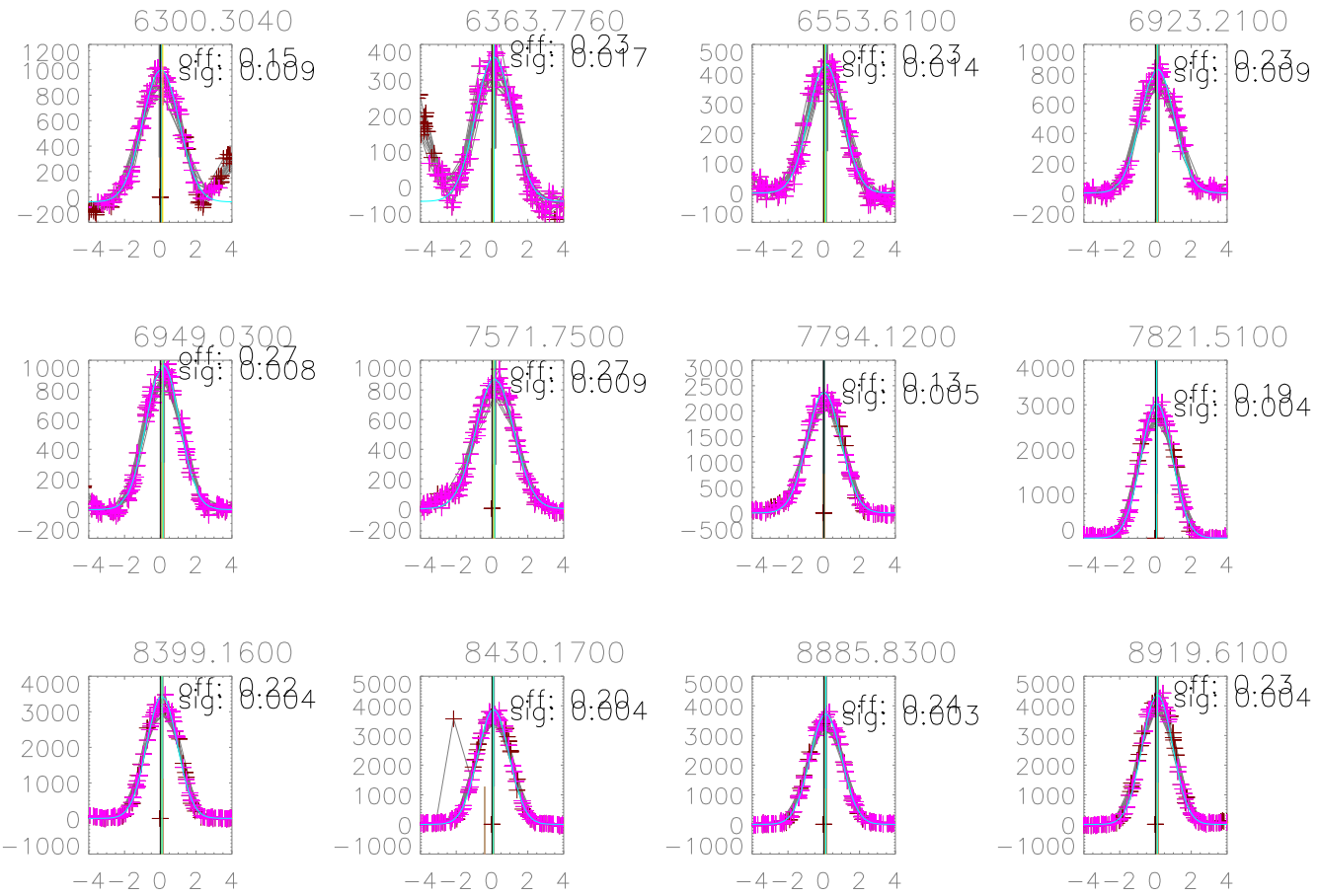

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r2-00016912.fi
38.2
38.2
38.2
27.3
16.4
16.4
16.4
5.5
5
5
Y [pix]
X [pix]
0
500
1000
1500
2000

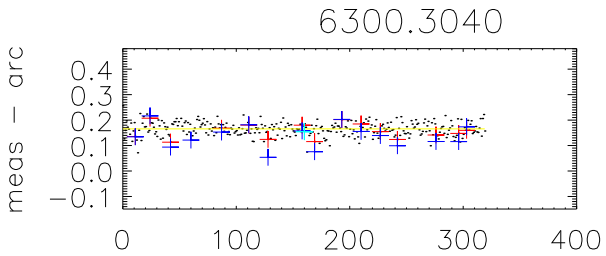

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r2-00016912.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.425
Max value = 46.262
Mon Feb 11 14:57:53 2008

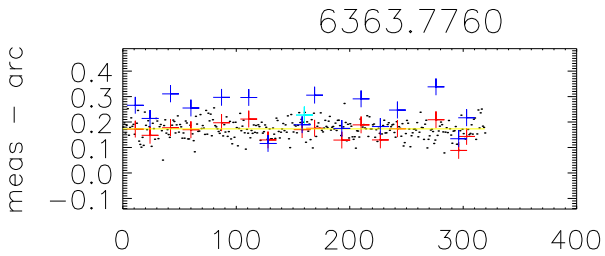

PLATE=1066 MJD=52589 Scattered Light on sdR-r2-00016912.fit
11.36
11.36
11.36
6.82
6.82
Y [pix]
X [pix]
0
500
1000
1500
2000

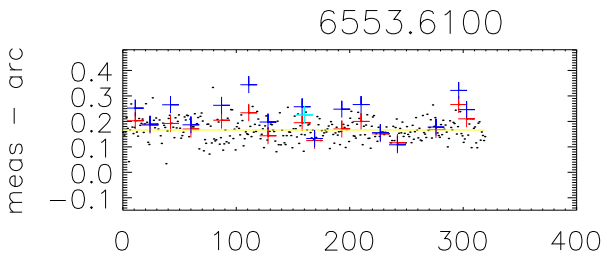

PLATE=1066 MJD=52589 Scattered Light on sdR-r2-00016912.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.357
Max value = 13.439
Mon Feb 11 15:00:22 2008

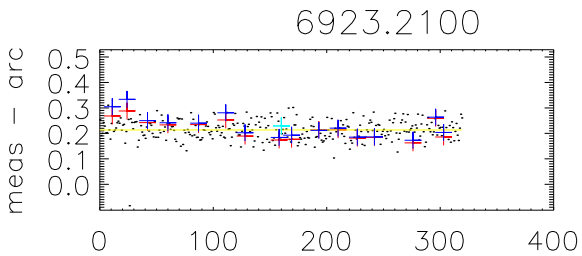

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-r2-00016912.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

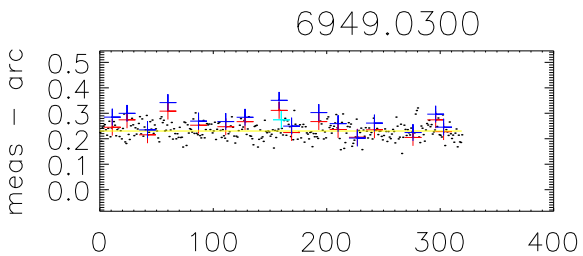

6300.3040
off: 0.15
sig: 0.009
6363.7760
off: 0.23
sig: 0.017
6553.6100
off: 0.23
sig: 0.014
6923.2100
off: 0.23
sig: 0.009
6949.0300
off: 0.27
sig: 0.008
7571.7500
off: 0.27
sig: 0.009
7794.1200
off: 0.13
sig: 0.005
7821.5100
off: 0.19
sig: 0.004
8399.1600
off: 0.22
sig: 0.004
8430.1700
off: 0.20
sig: 0.004
8885.8300
off: 0.24
sig: 0.003
8919.6100
off: 0.23
sig: 0.004

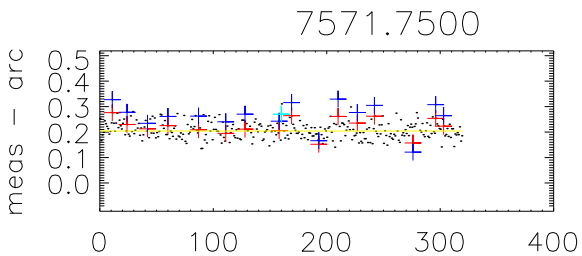

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

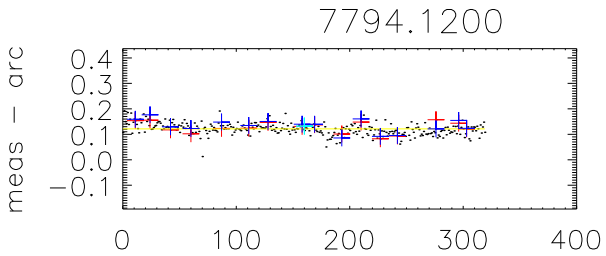

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

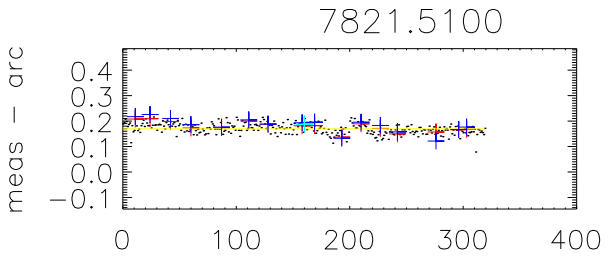

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

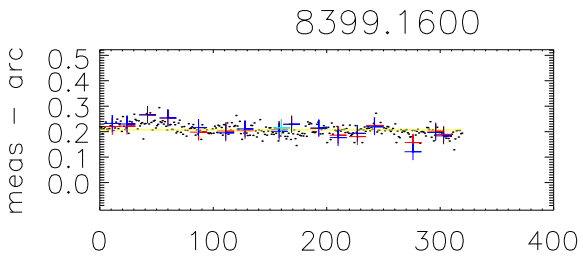

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

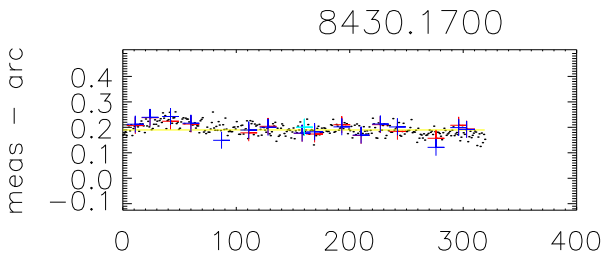

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

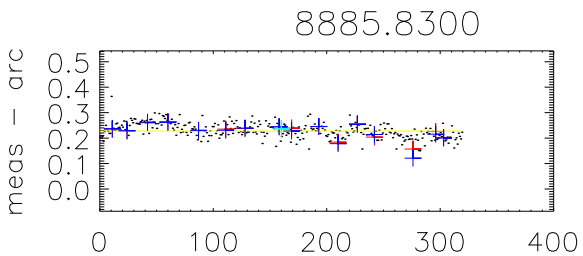

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

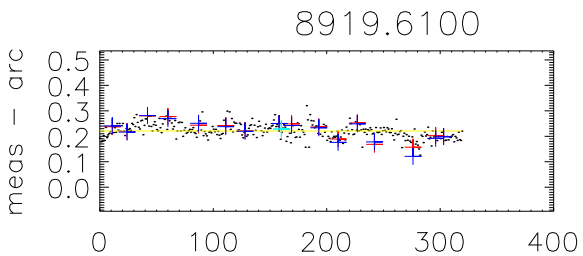

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

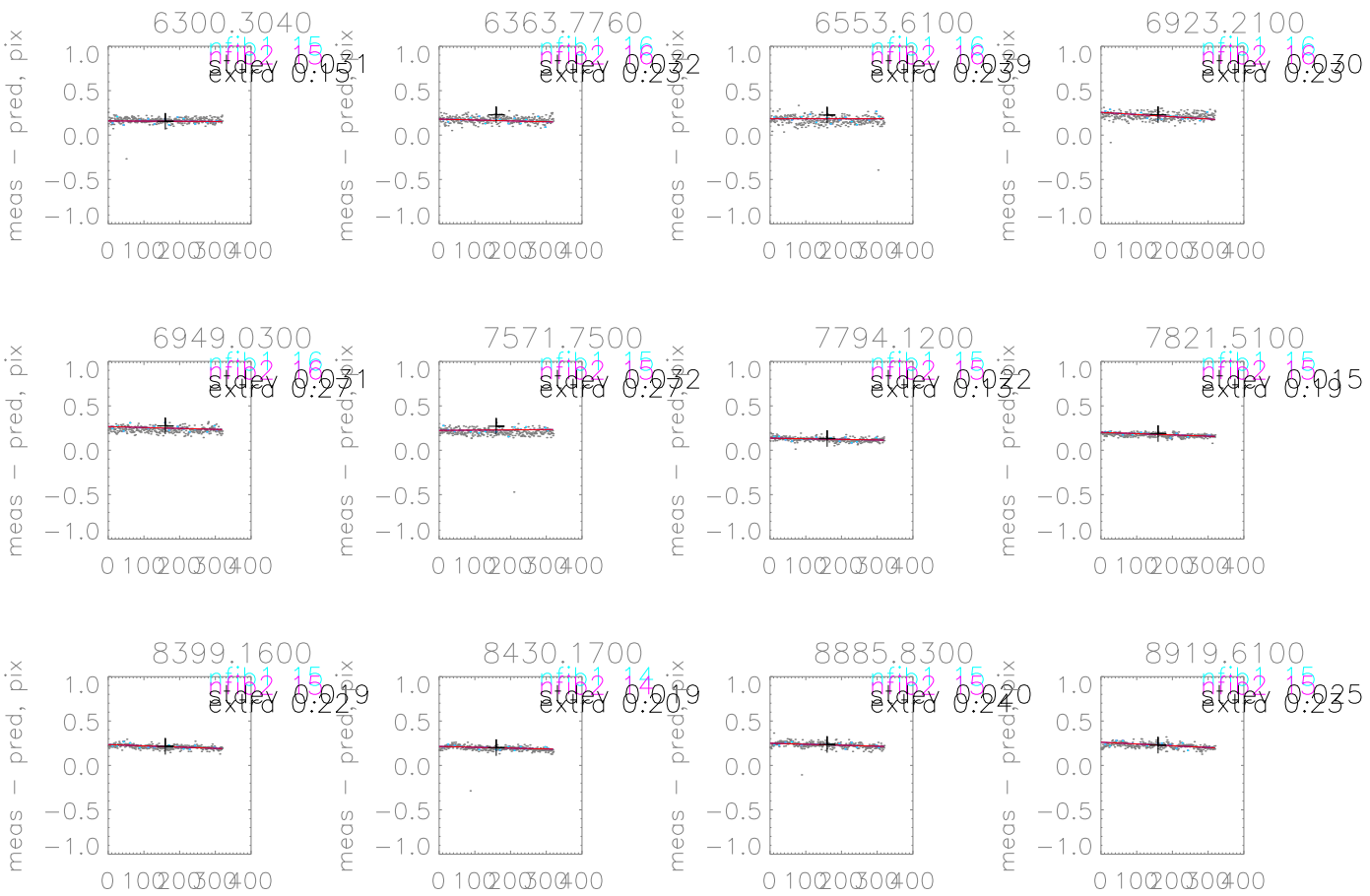

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

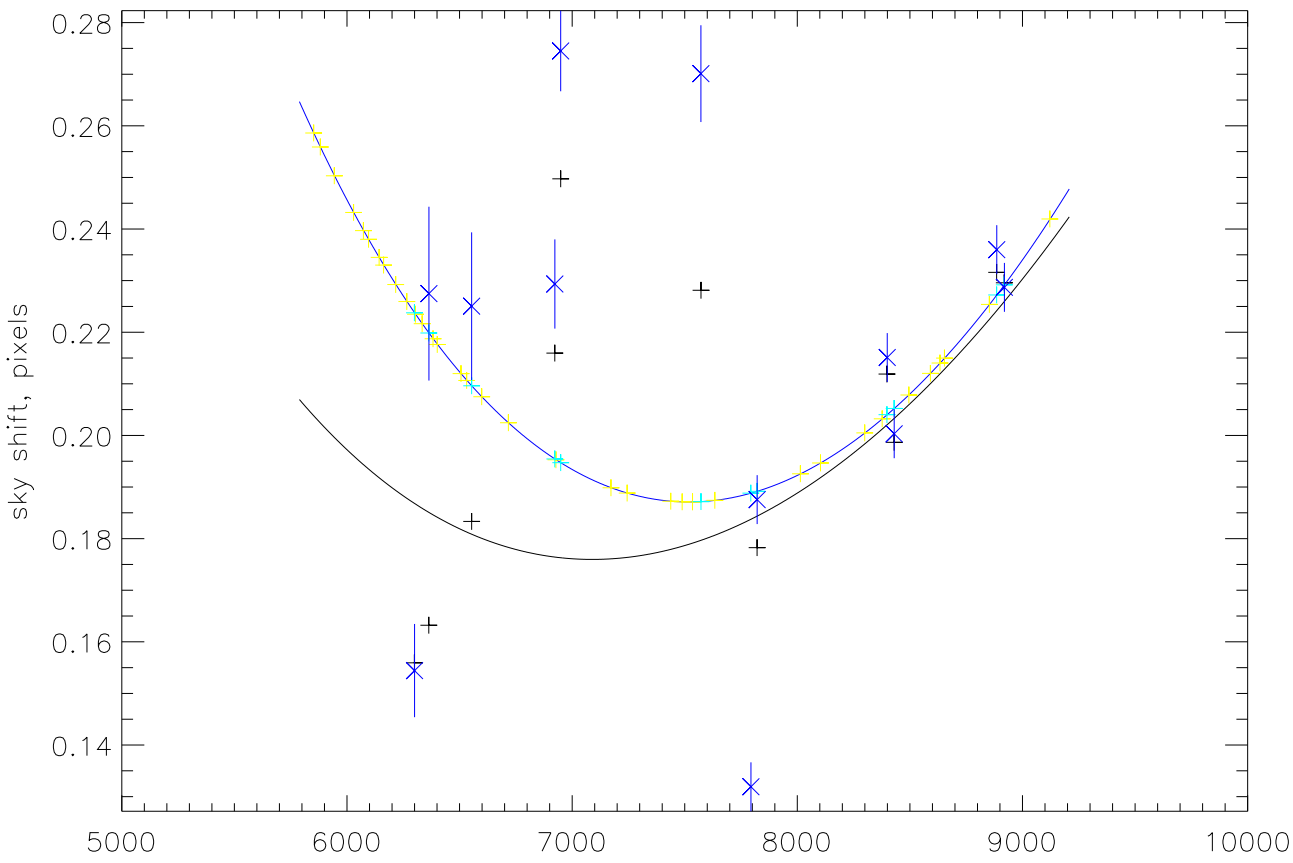

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

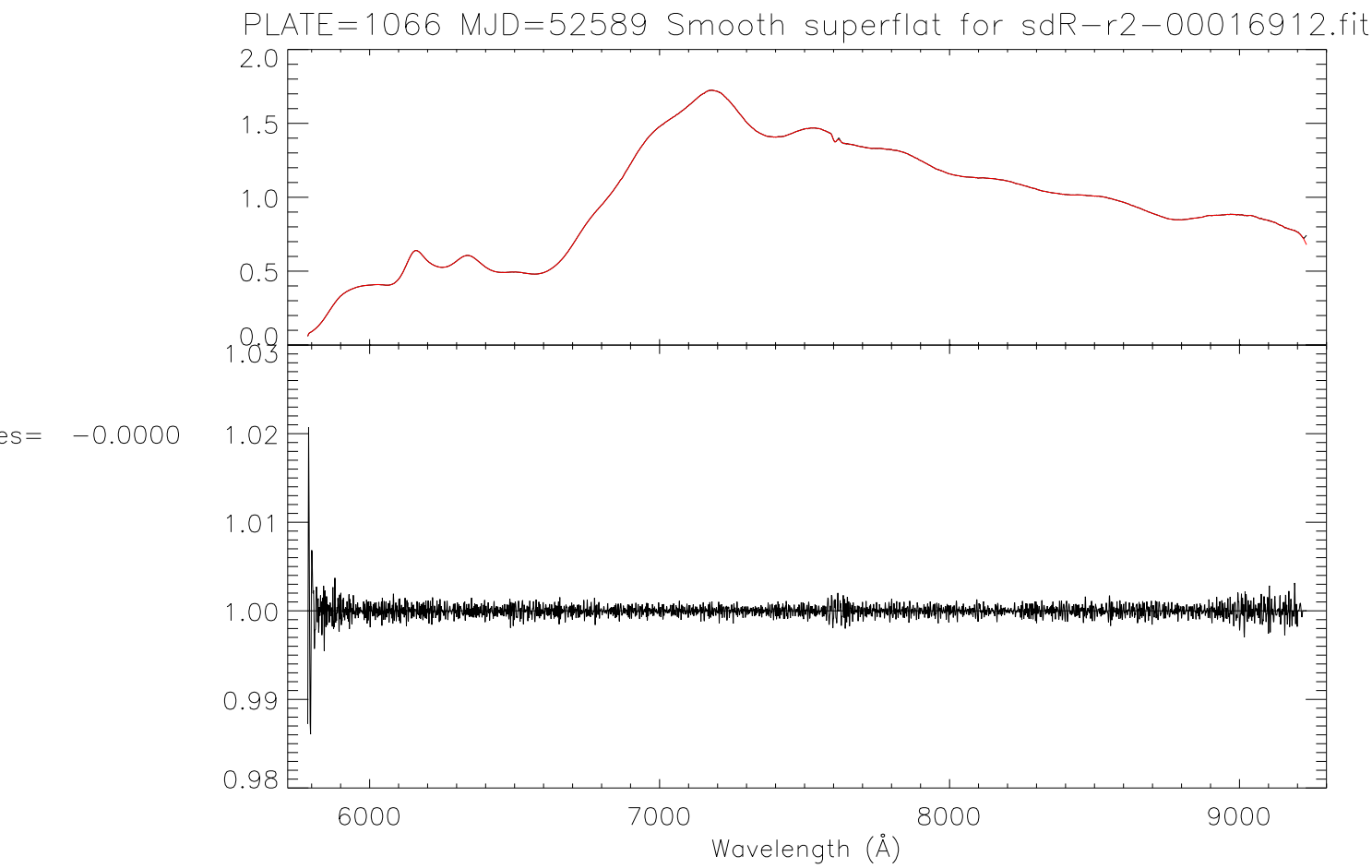

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

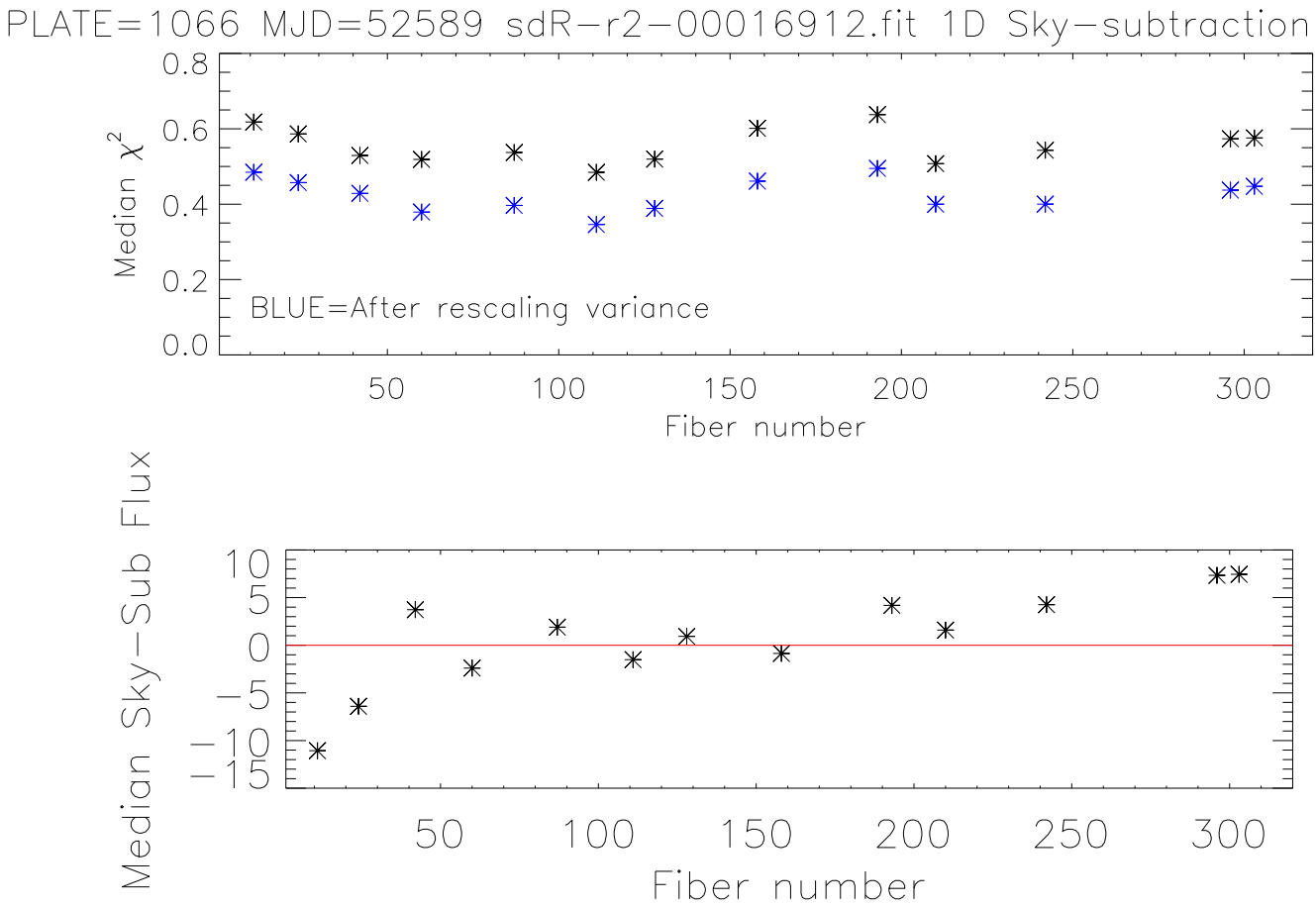

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

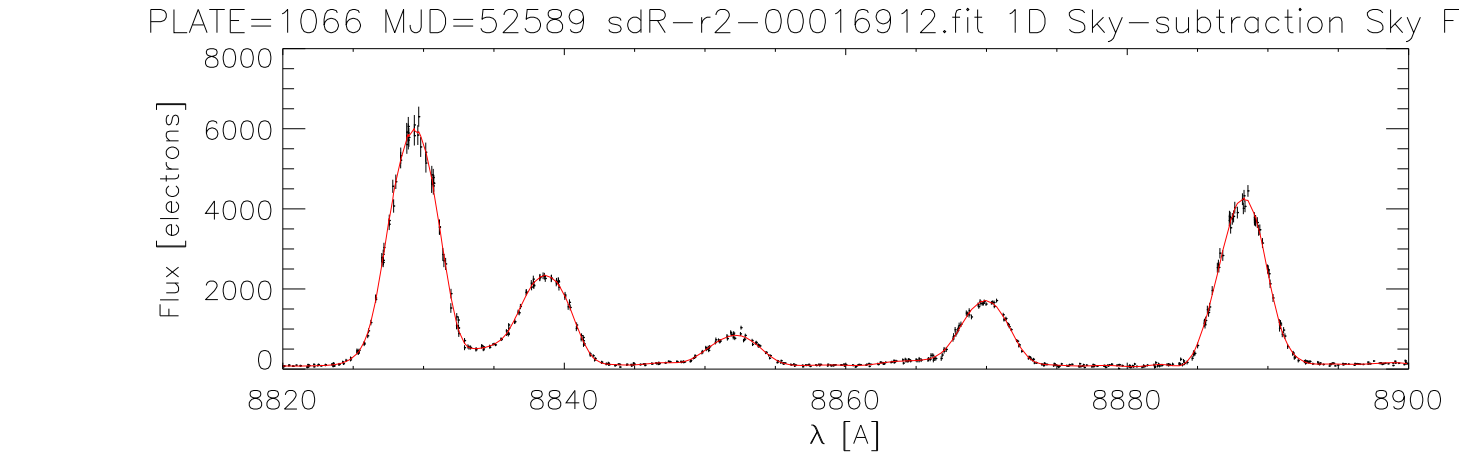

6300.3040
mfhi2 15
stdev 0.031
extra 0.15
6363.7760
mfhi2 16
stdev 0.032
extra 0.23
6553.6100
mfhi2 16
stdev 0.039
extra 0.23
6923.2100
mfhi2 16
stdev 0.030
extra 0.23
6949.0300
mfhi2 16
stdev 0.031
extra 0.27
7571.7500
mfhi2 15
stdev 0.032
extra 0.27
7794.1200
mfhi2 15
stdev 0.022
extra 0.13
7821.5100
mfhi2 15
stdev 0.015
extra 0.19
8399.1600
mfhi2 15
stdev 0.019
extra 0.22
8430.1700
mfhi2 14
stdev 0.019
extra 0.20
8885.8300
mfhi2 15
stdev 0.020
extra 0.24
8919.6100
mfhi2 15
stdev 0.025
extra 0.23
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

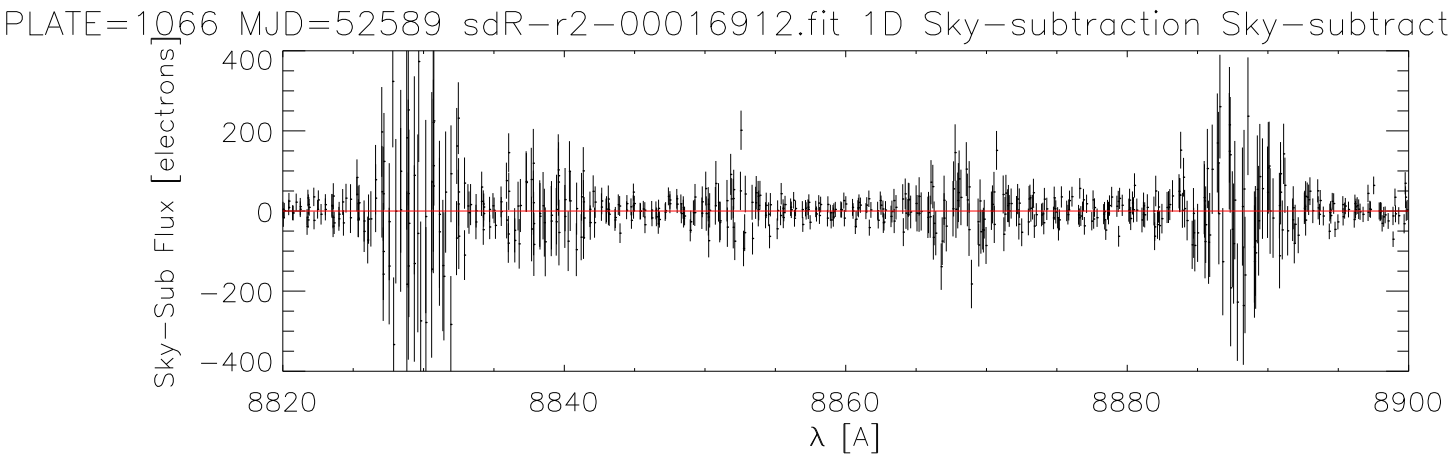

sky shift, pixels
0.28
0.26
0.24
0.22
0.20
0.18
0.16
0.14
5000
6000
7000
8000
9000
10000

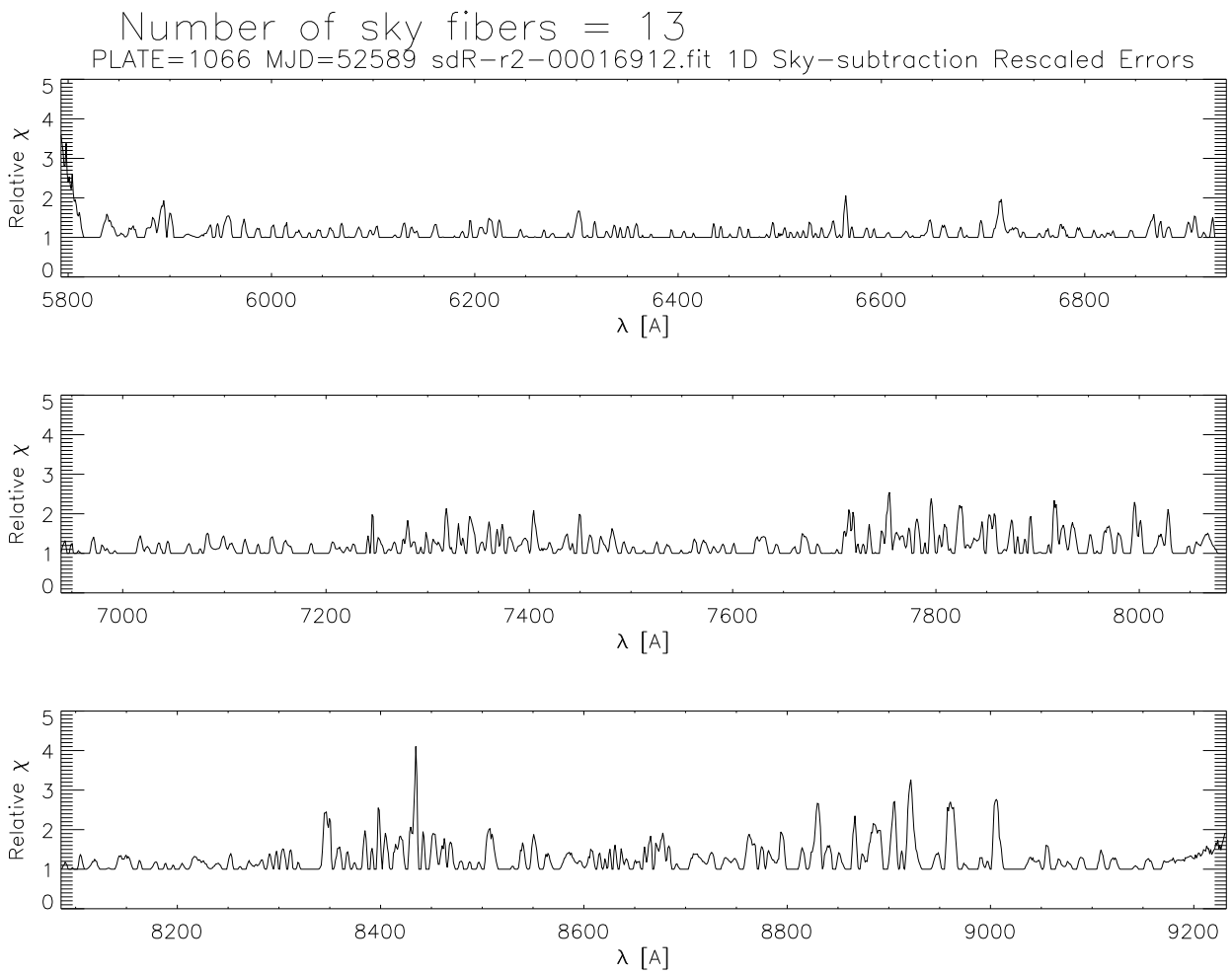

PLATE=1066 MJD=52589 Smooth superflat for sdR-r2-00016912.fit
2.0
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
6000
7000
8000
9000
Wavelength (Å)

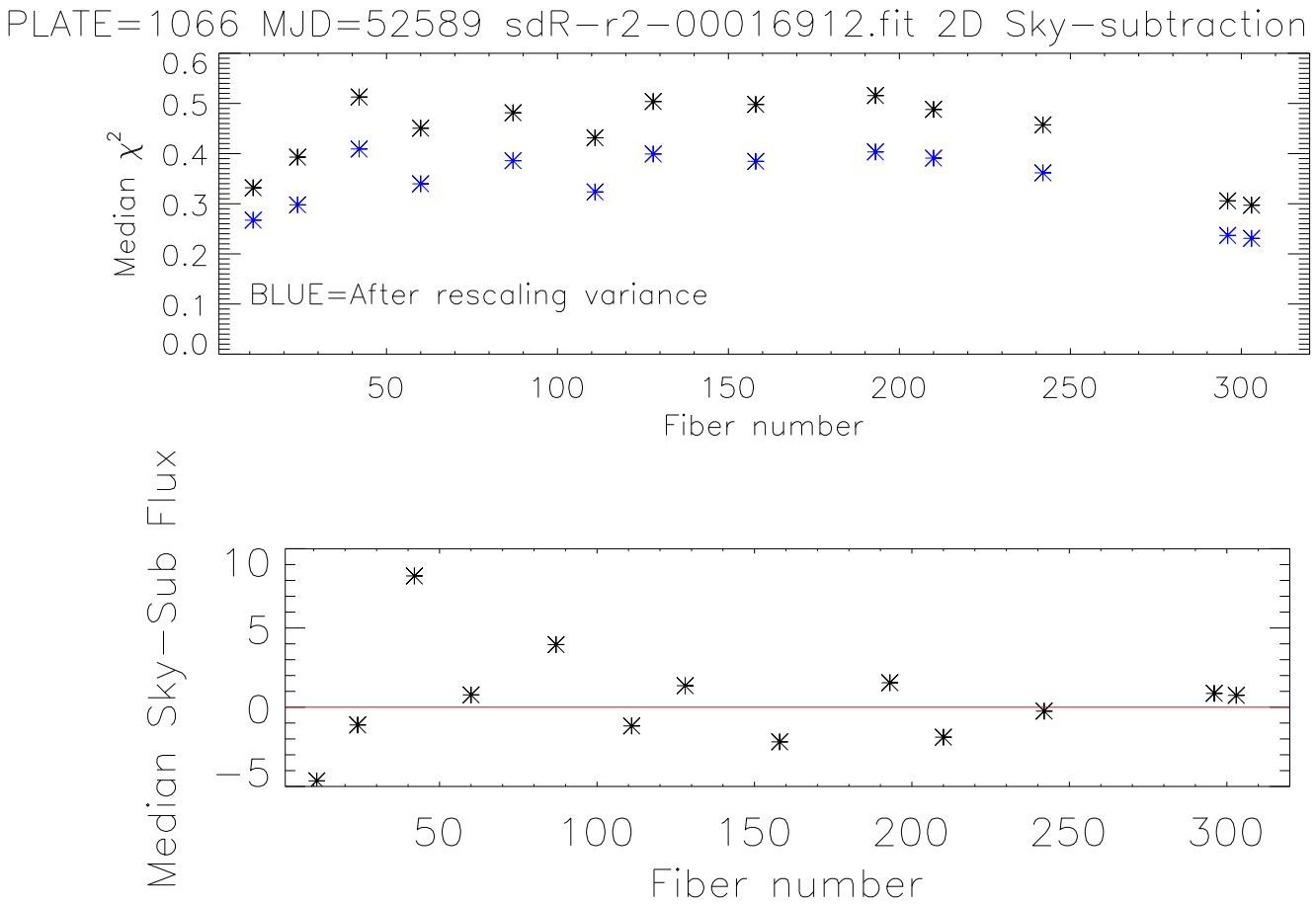
es= −0.0000

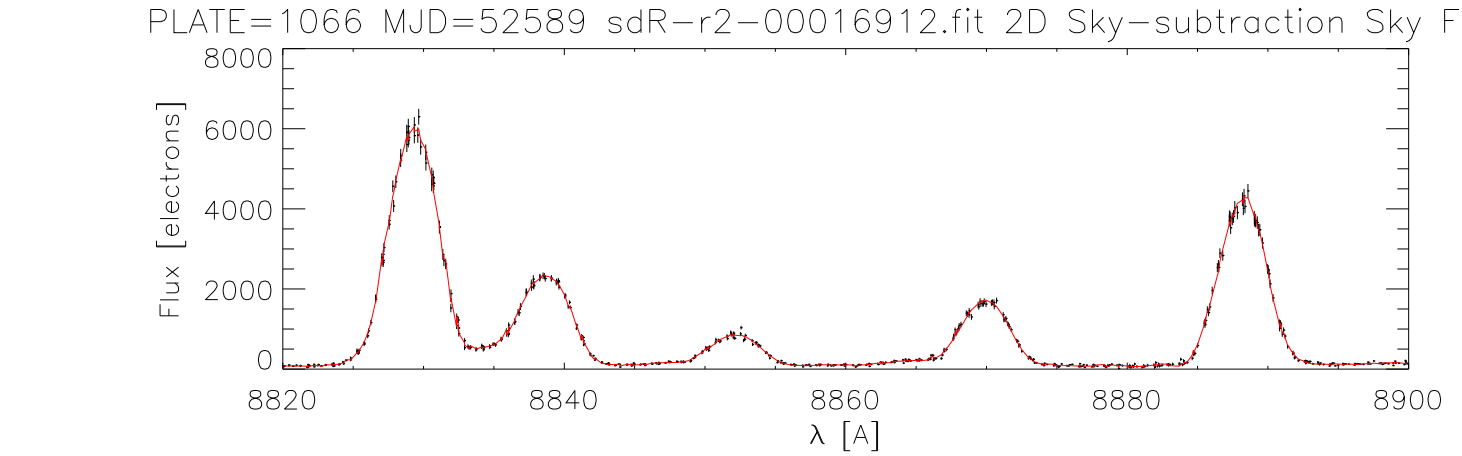

PLATE=1066 MJD=52589 sdR-r2-00016912.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

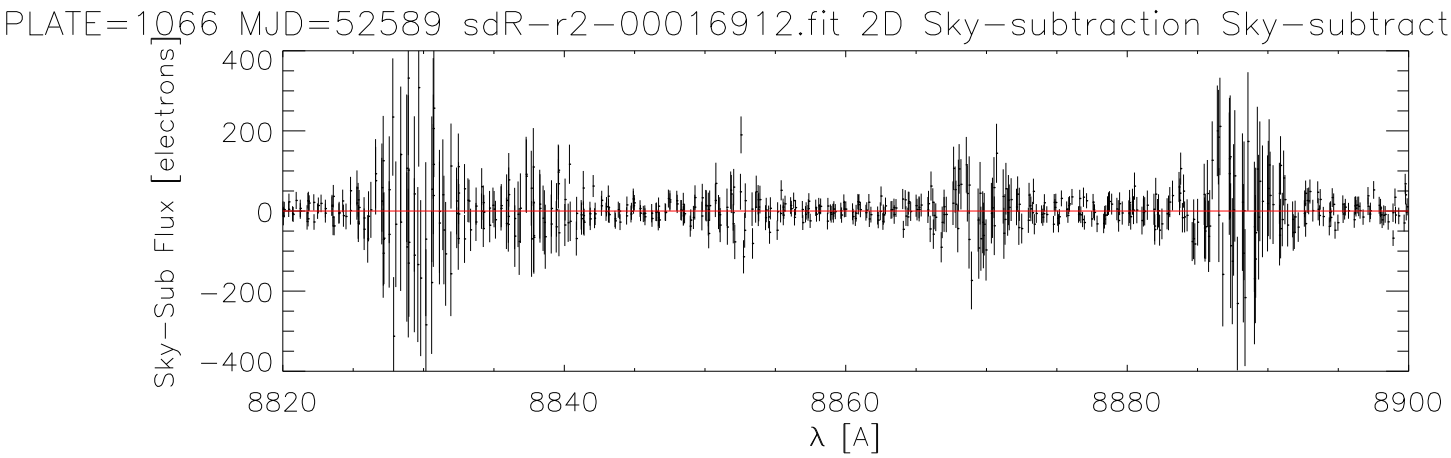

PLATE=1066 MJD=52589 sdR-r2-00016912.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

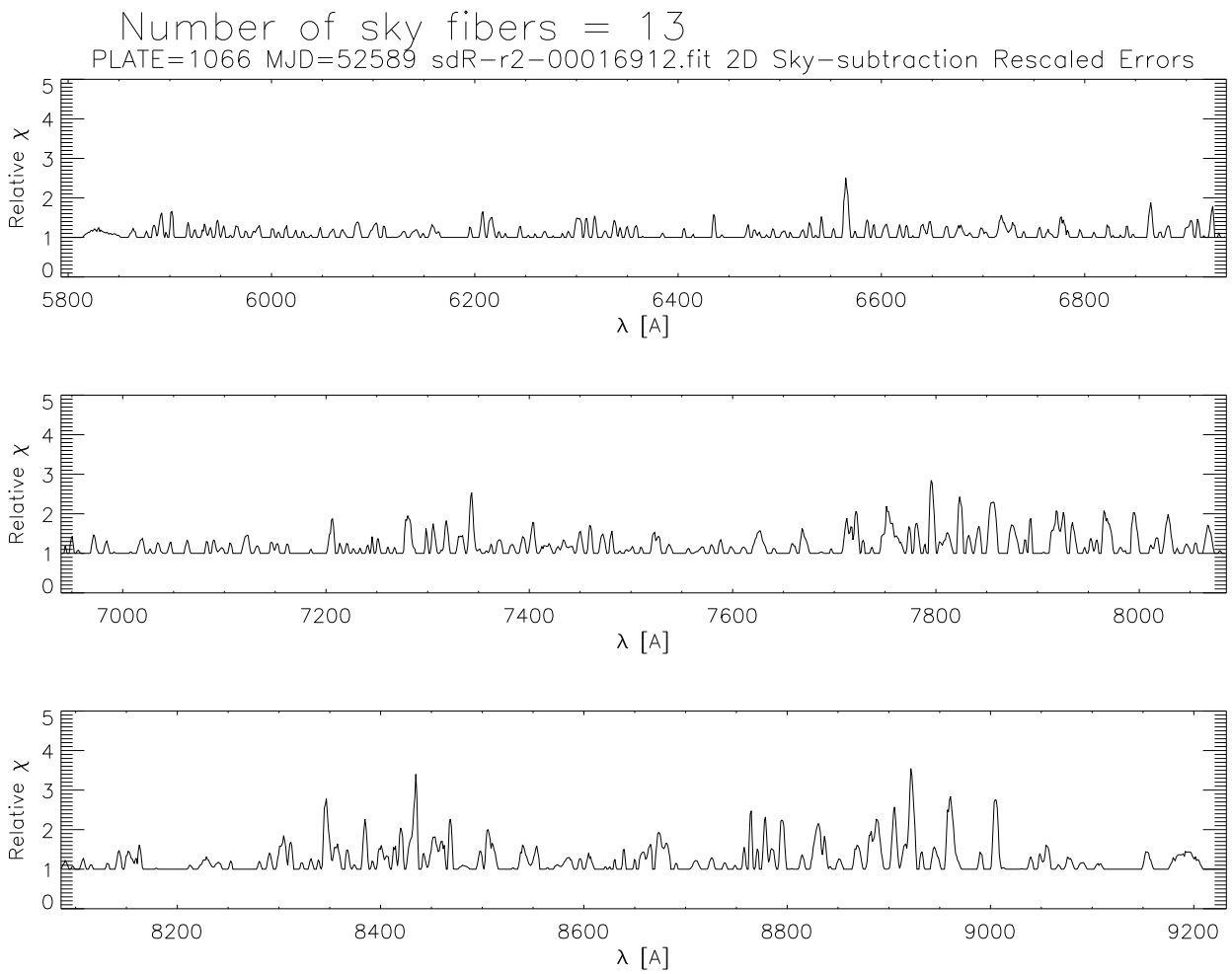

PLATE=1066 MJD=52589 sdR-r2-00016912.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

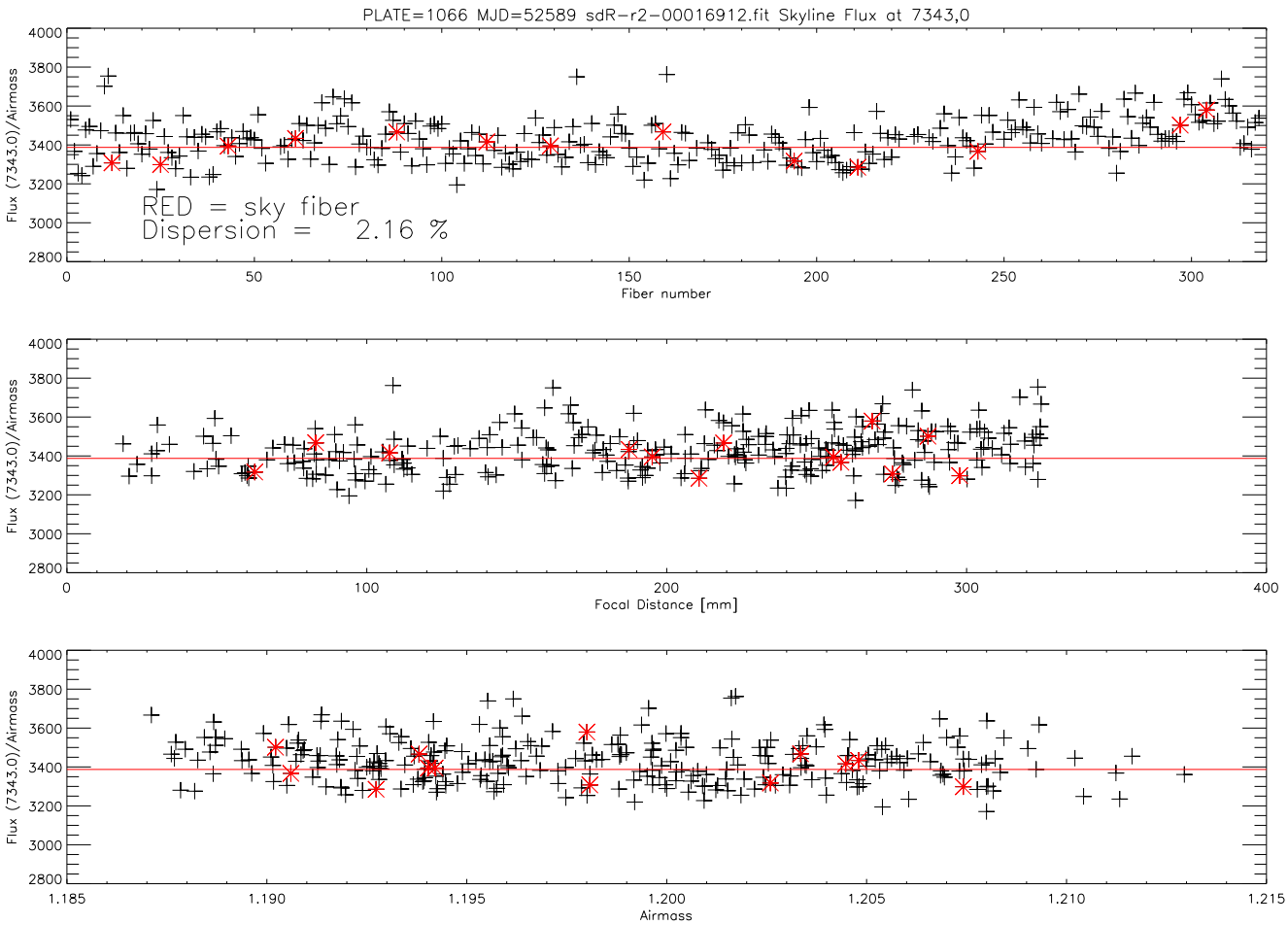

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r2-00016912.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

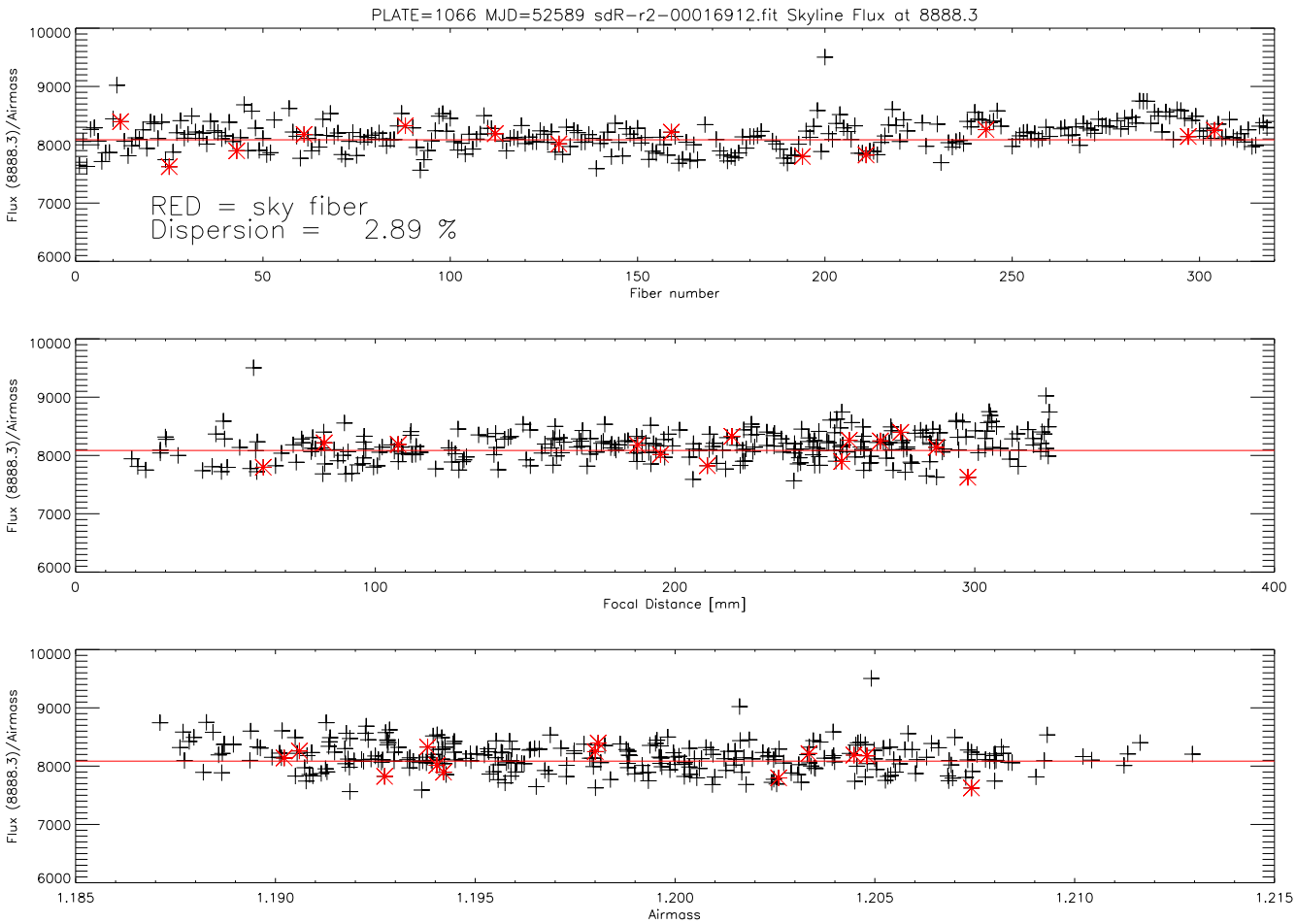

PLATE=1066 MJD=52589 sdR-r2-00016912.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

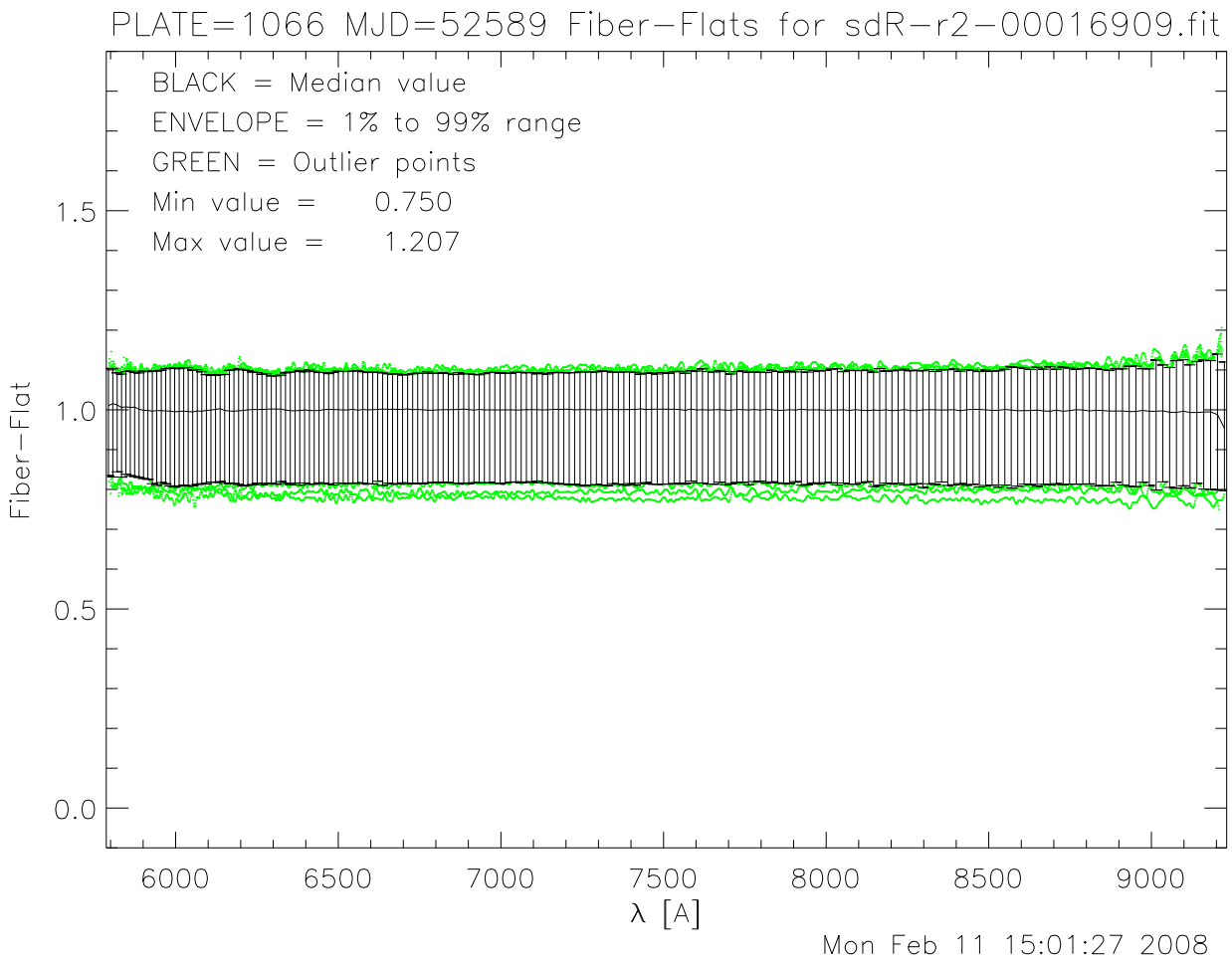

PLATE=1066 MJD=52589 sdR-r2-00016912.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

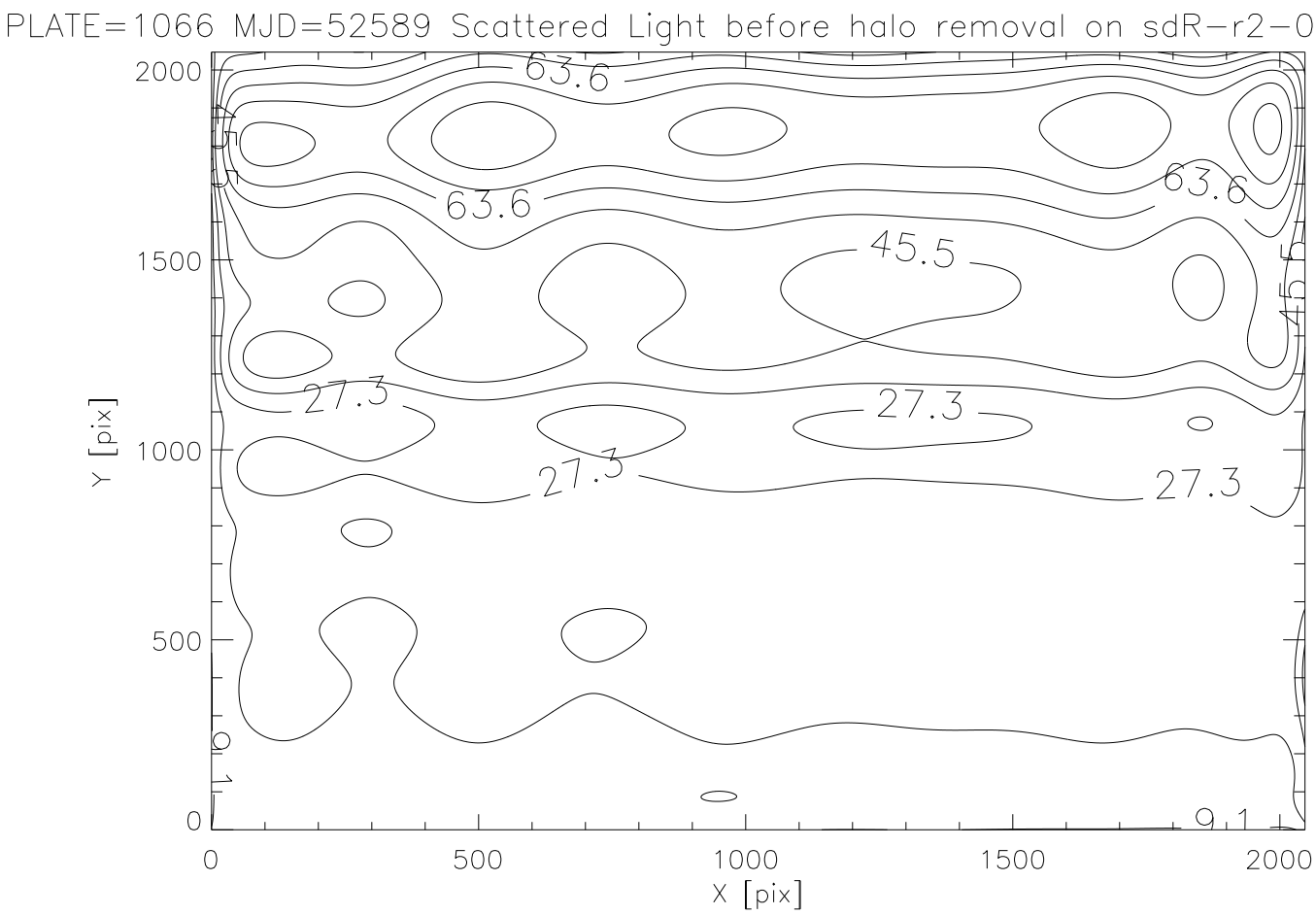

PLATE=1066 MJD=52589 sdR-r2-00016912.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

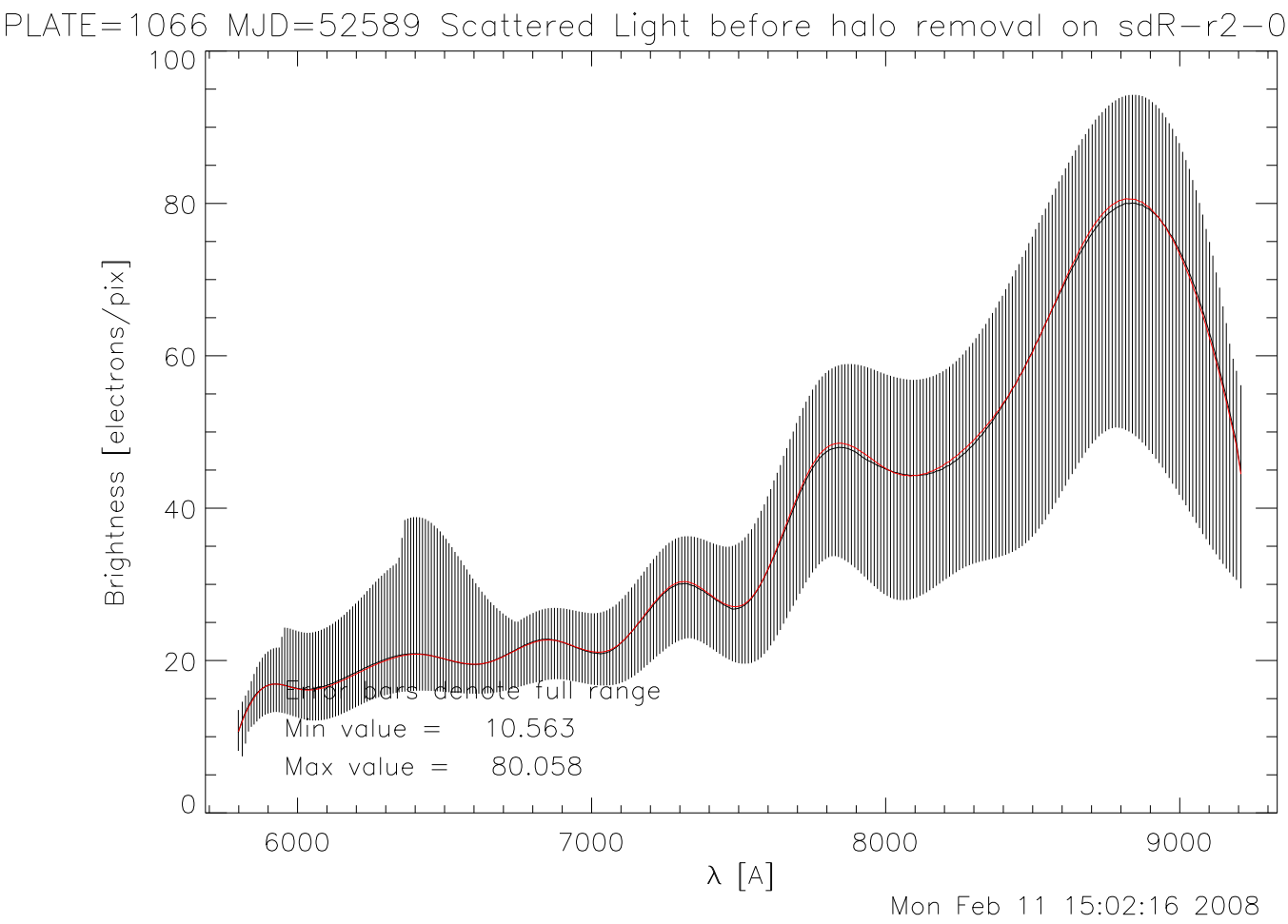

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r2-00016912.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

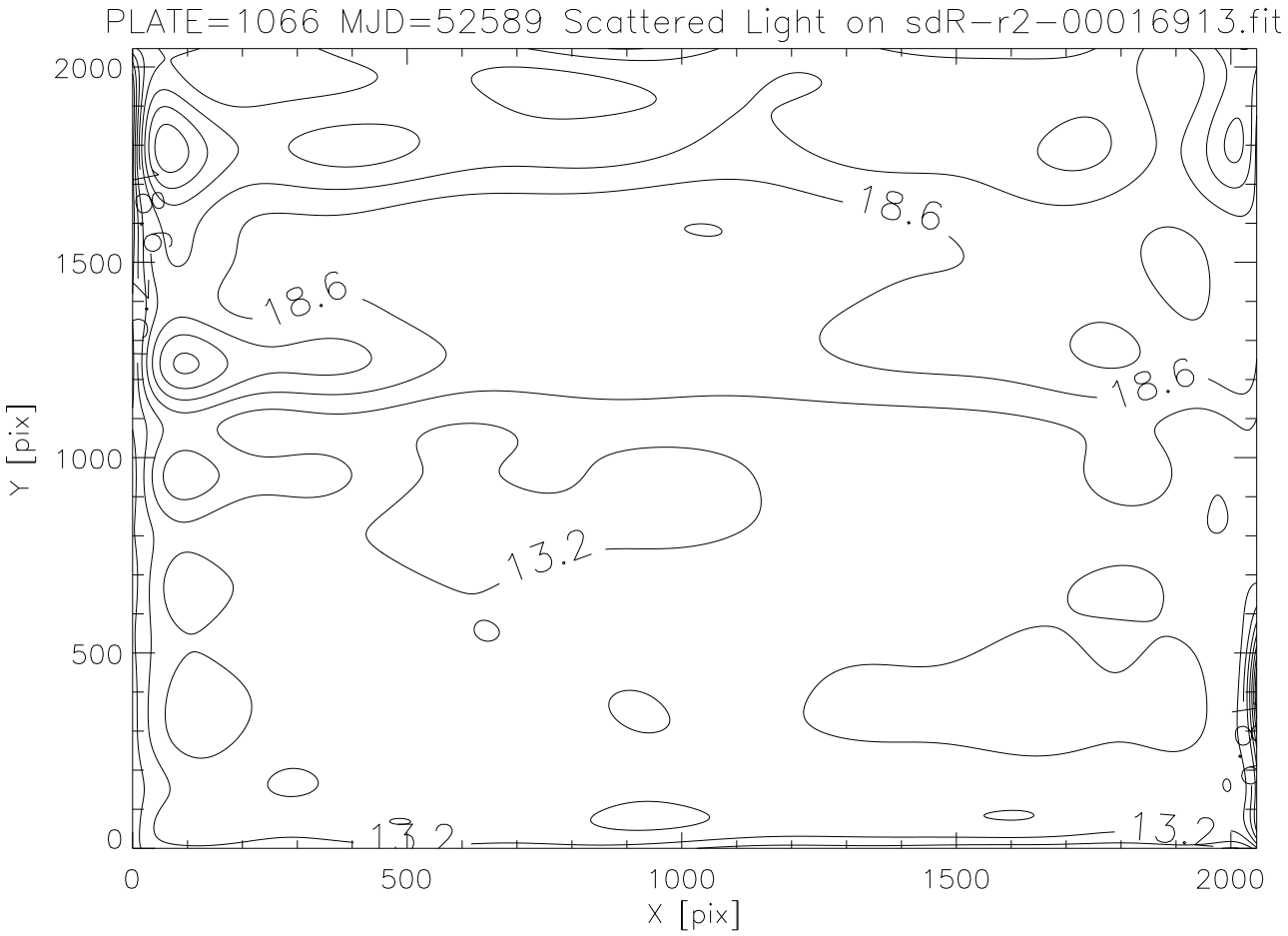

PLATE=1066 MJD=52589 sdR-r2-00016912.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.16 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

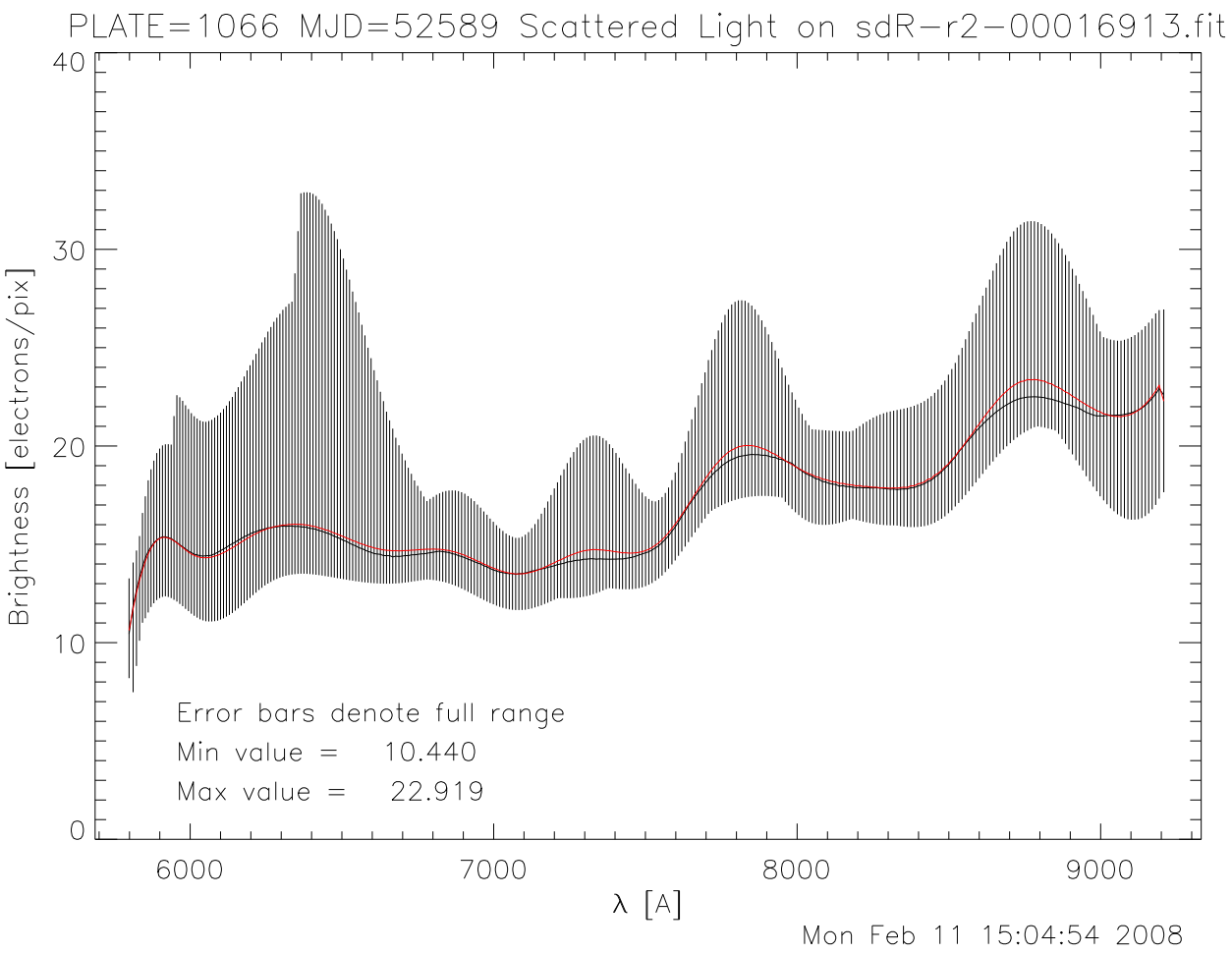

PLATE=1066 MJD=52589 sdR-r2-00016912.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.89 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

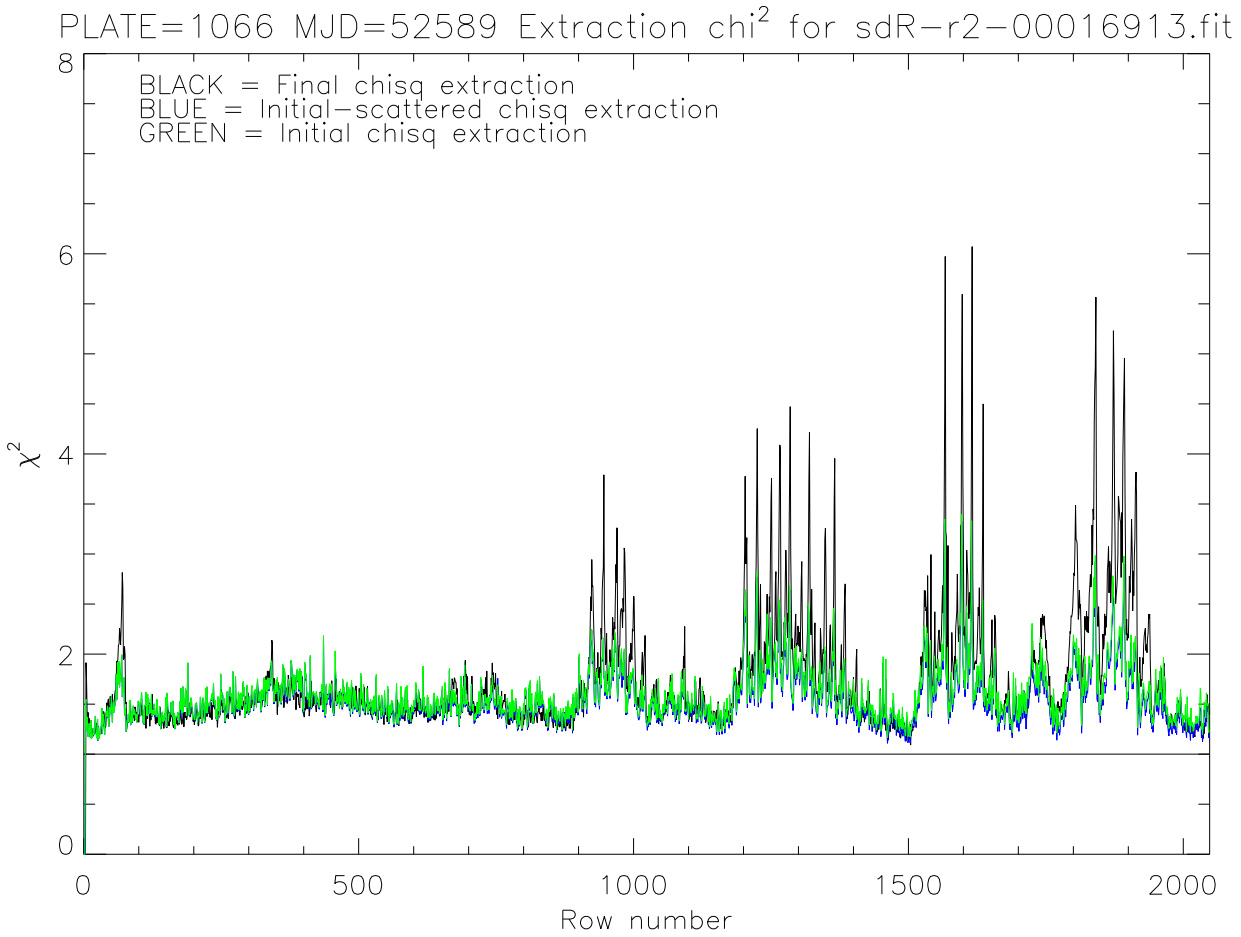

PLATE=1066 MJD=52589 Fiber−Flats for sdR−r2−00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.750
Max value = 1.207
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 15:01:27 2008

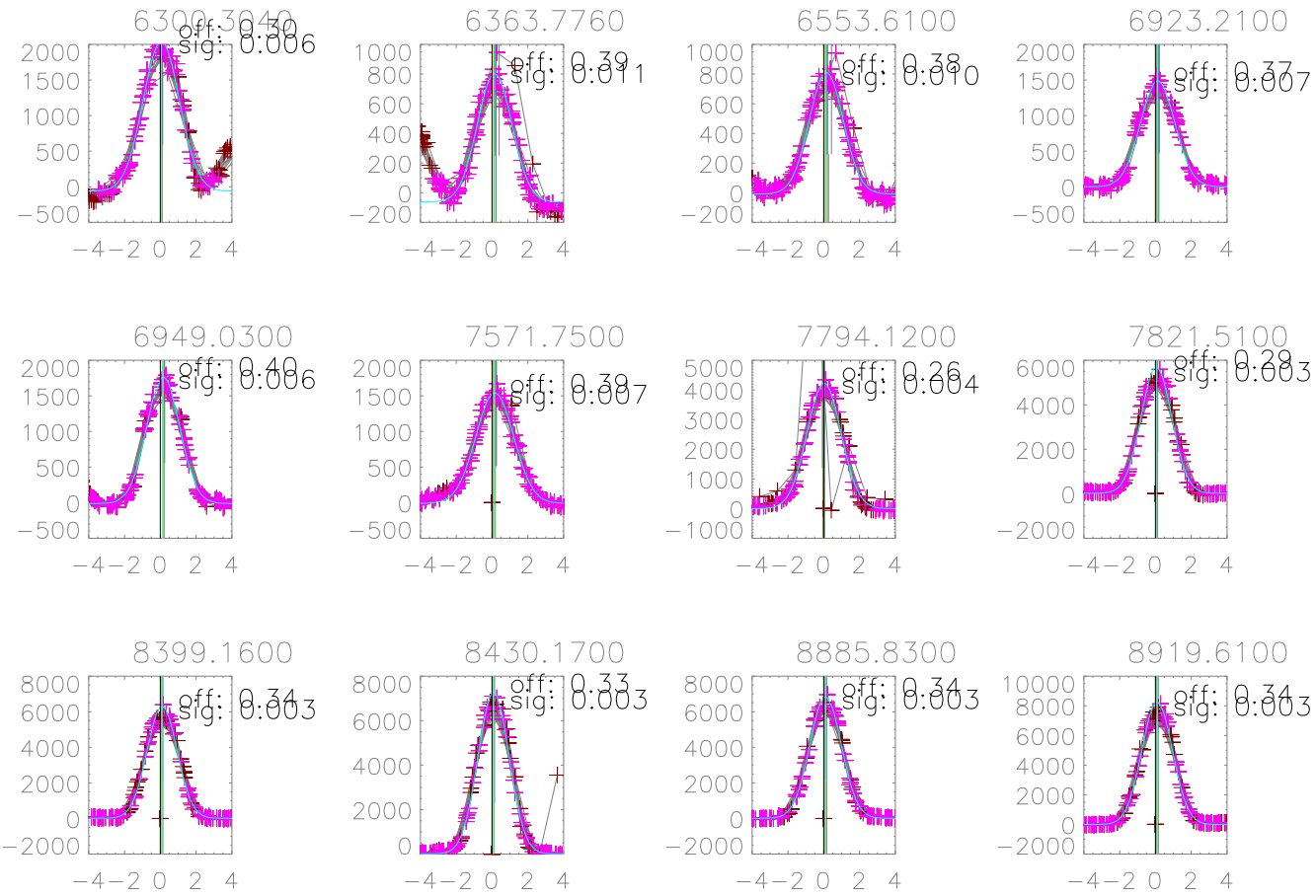

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r2-00016913.fi
63.6
63.6
63.6
45.5
45.5
27.3
27.3
27.3
27.3
9.1
9.1
Y [pix]
X [pix]
0
500
1000
1500
2000

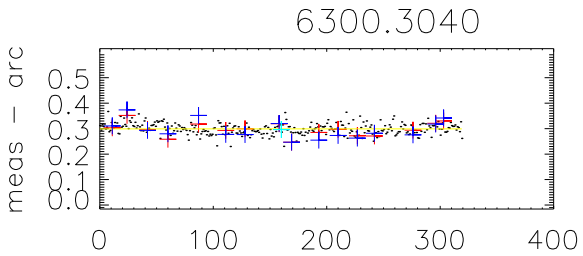

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r2-00016913.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.563
Max value = 80.058
Mon Feb 11 15:02:16 2008

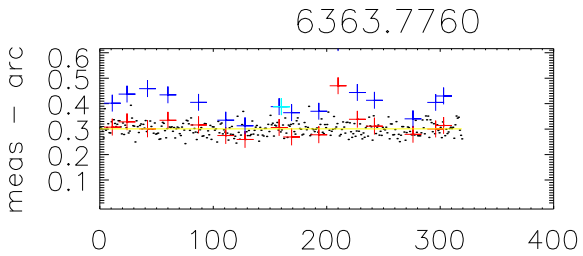

PLATE=1066 MJD=52589 Scattered Light on sdR-r2-00016913.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
18.6
13.2

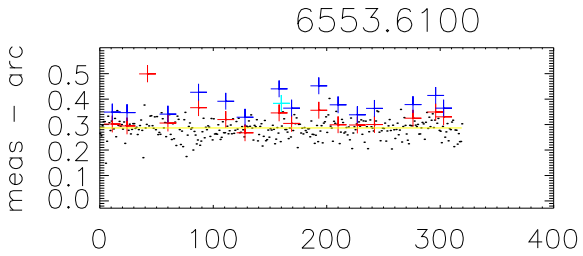

PLATE=1066 MJD=52589 Scattered Light on sdR-r2-00016913.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.440
Max value = 22.919
Mon Feb 11 15:04:54 2008

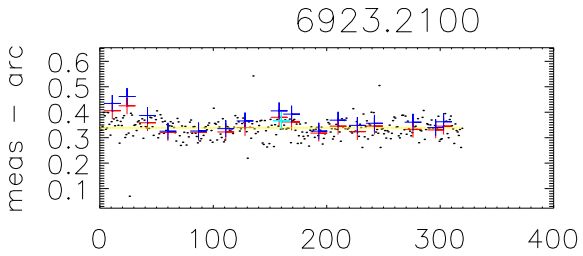

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-r2-00016913.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

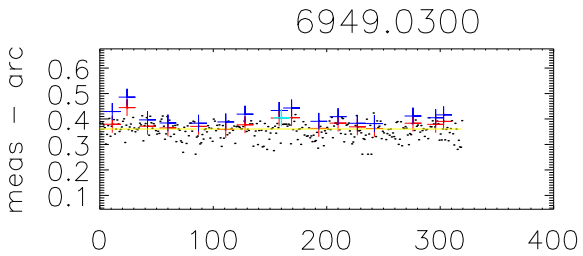

6300.3040
off: 0.30
sig: 0.006
6363.7760
off: 0.39
sig: 0.011
6553.6100
off: 0.38
sig: 0.010
6923.2100
off: 0.37
sig: 0.007
6949.0300
off: 0.40
sig: 0.006
7571.7500
off: 0.38
sig: 0.007
7794.1200
off: 0.26
sig: 0.004
7821.5100
off: 0.28
sig: 0.003
8399.1600
off: 0.34
sig: 0.003
8430.1700
off: 0.33
sig: 0.003
8885.8300
off: 0.34
sig: 0.003
8919.6100
off: 0.34
sig: 0.003

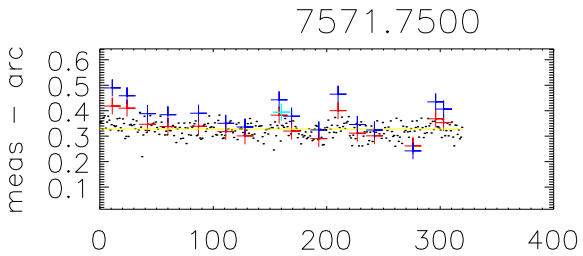

6300.3040
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

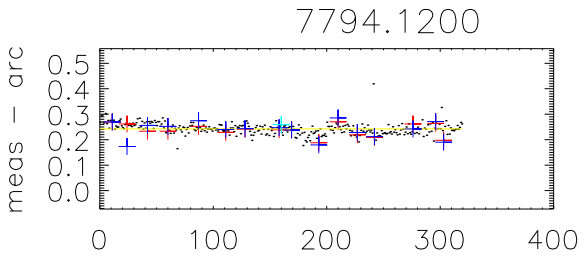

6363.7760
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

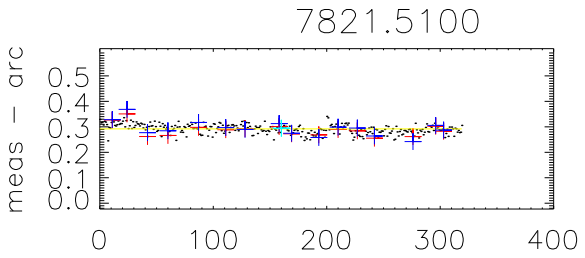

6553.6100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

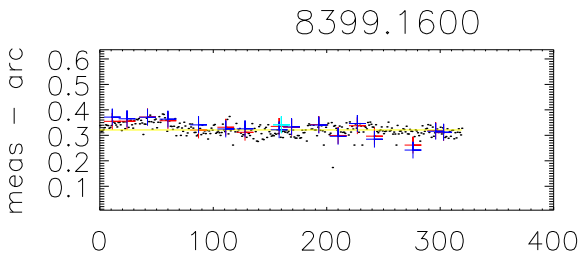

6923.2100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

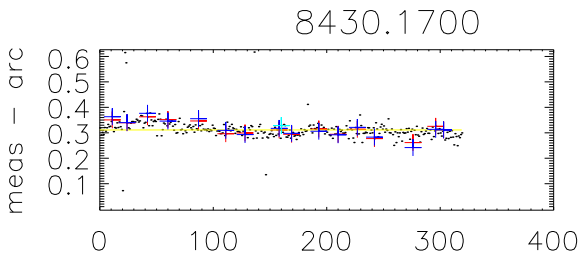

6949.0300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

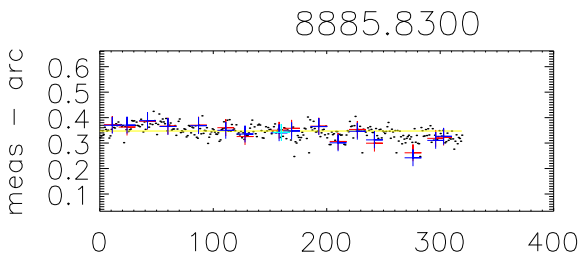

7571.7500
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

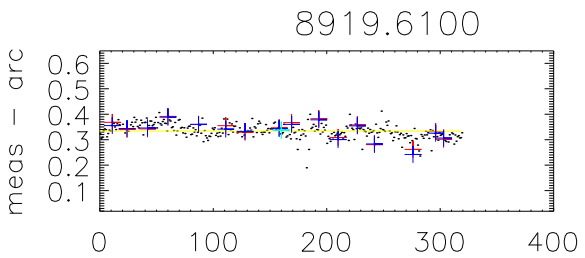

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

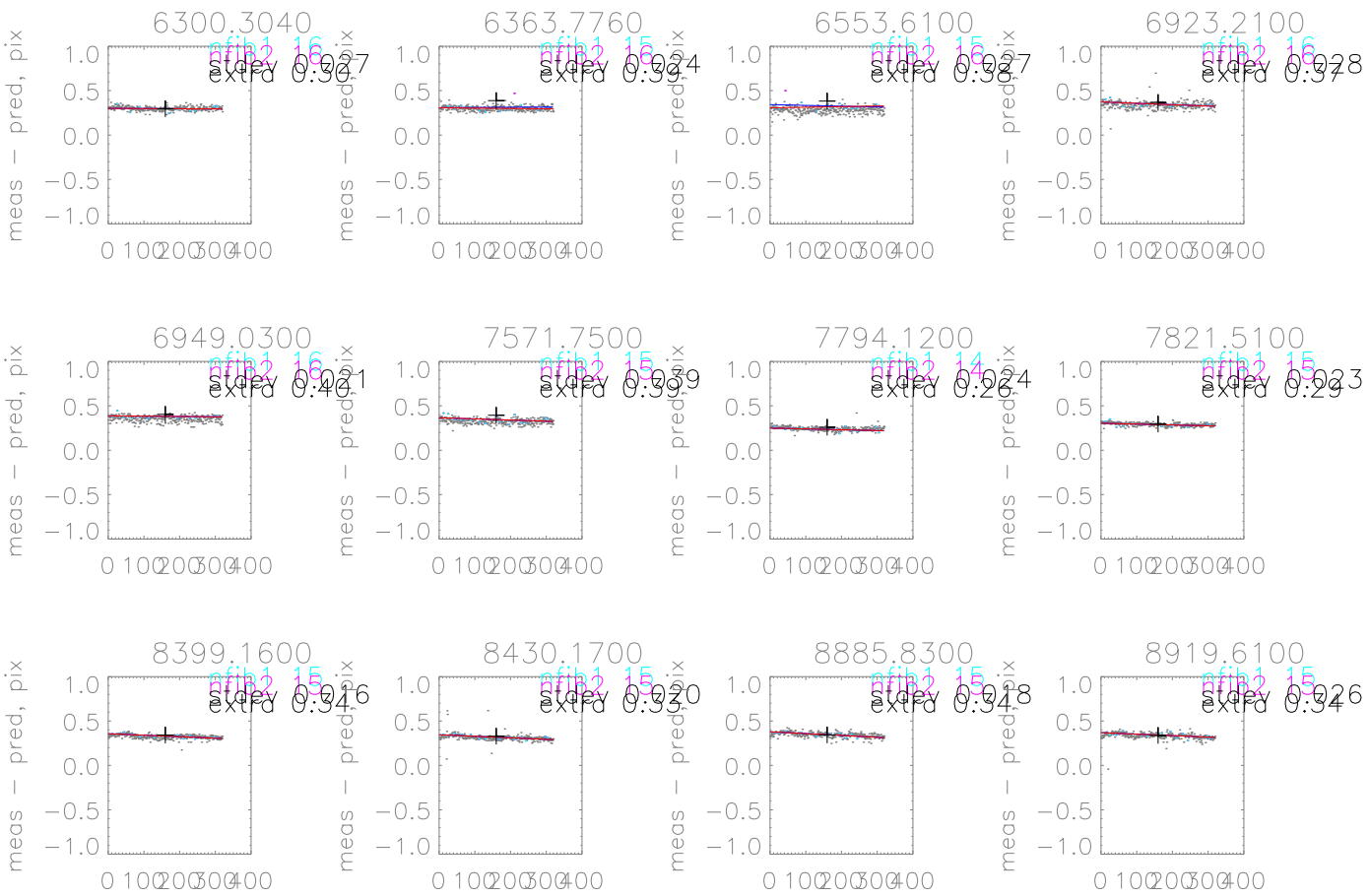

7821.5100
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

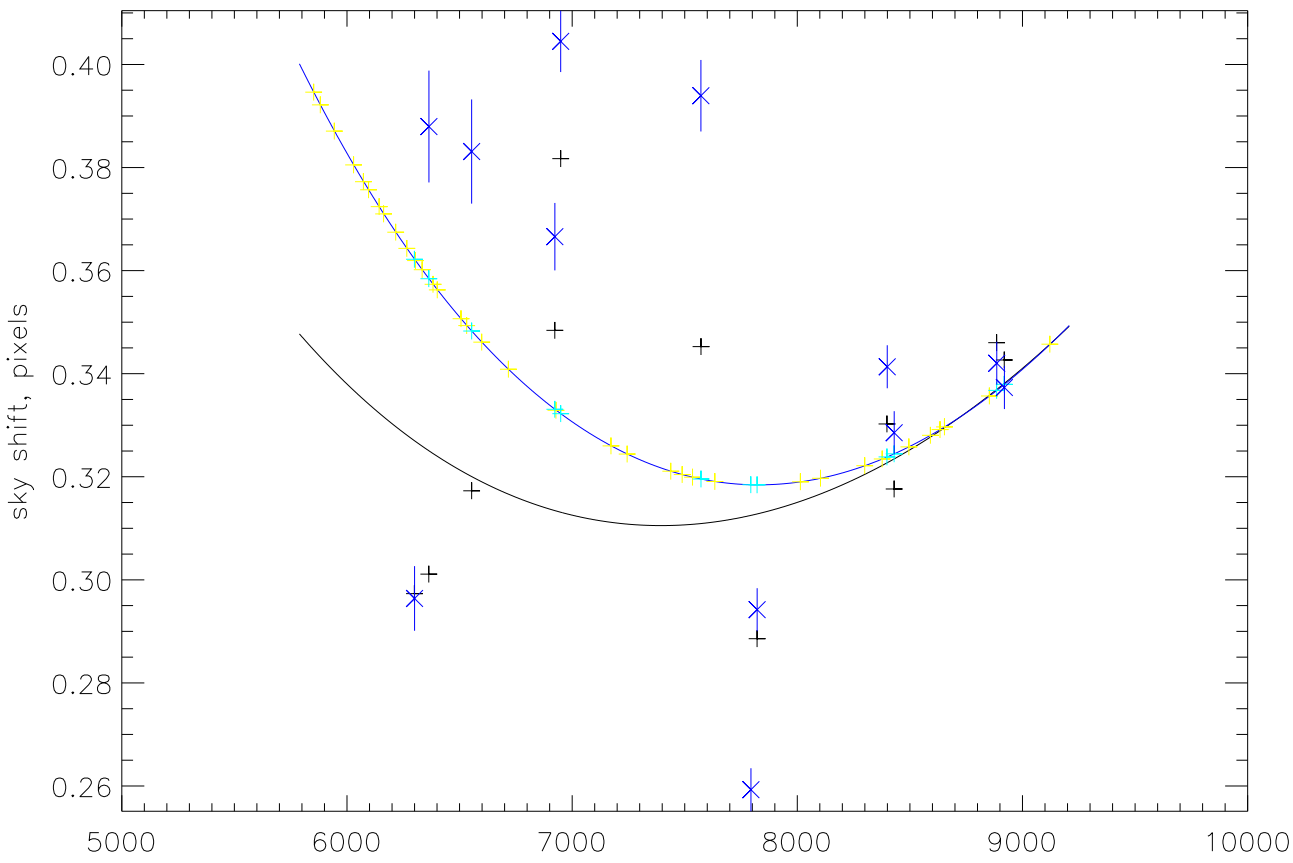

8399.1600
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

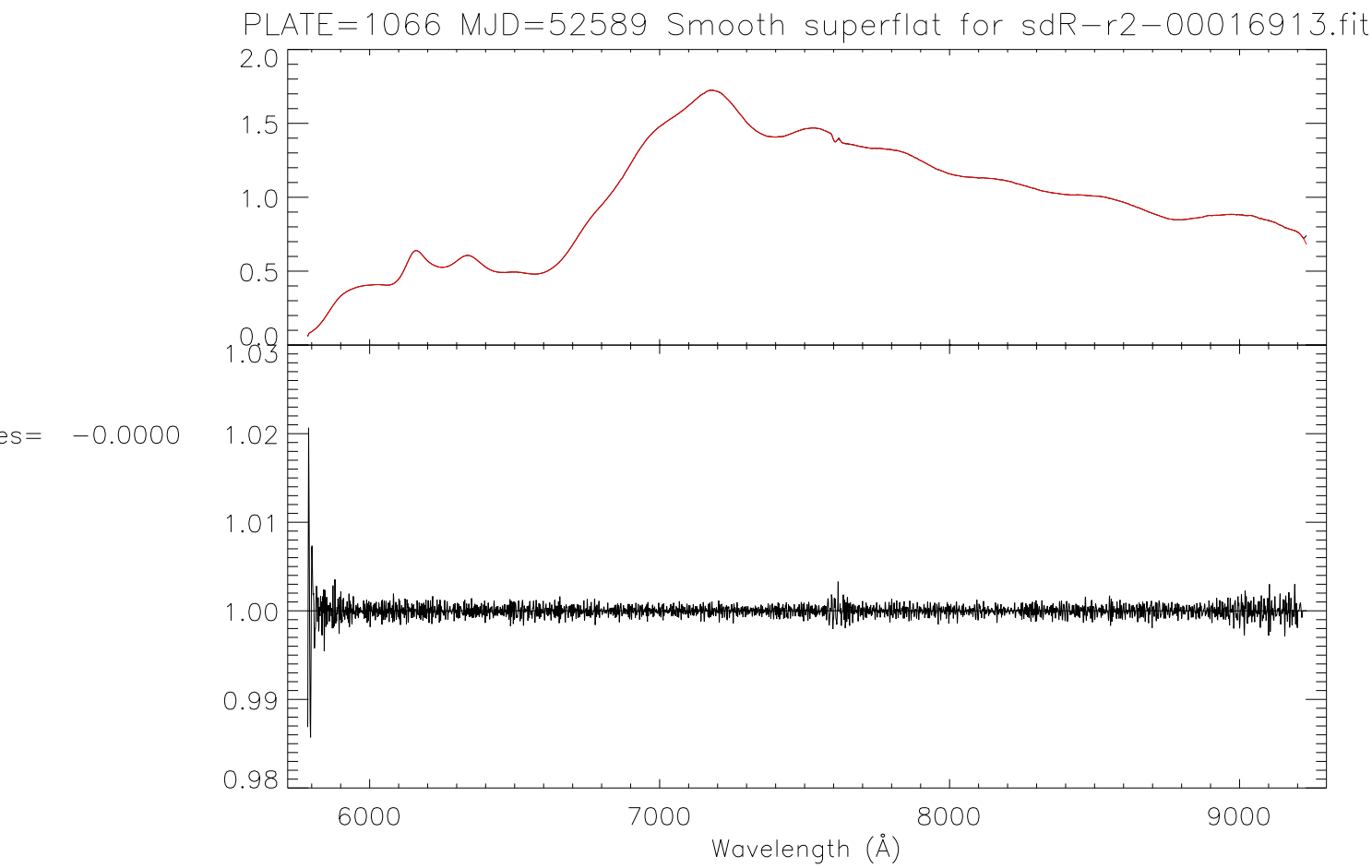

8430.1700
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


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

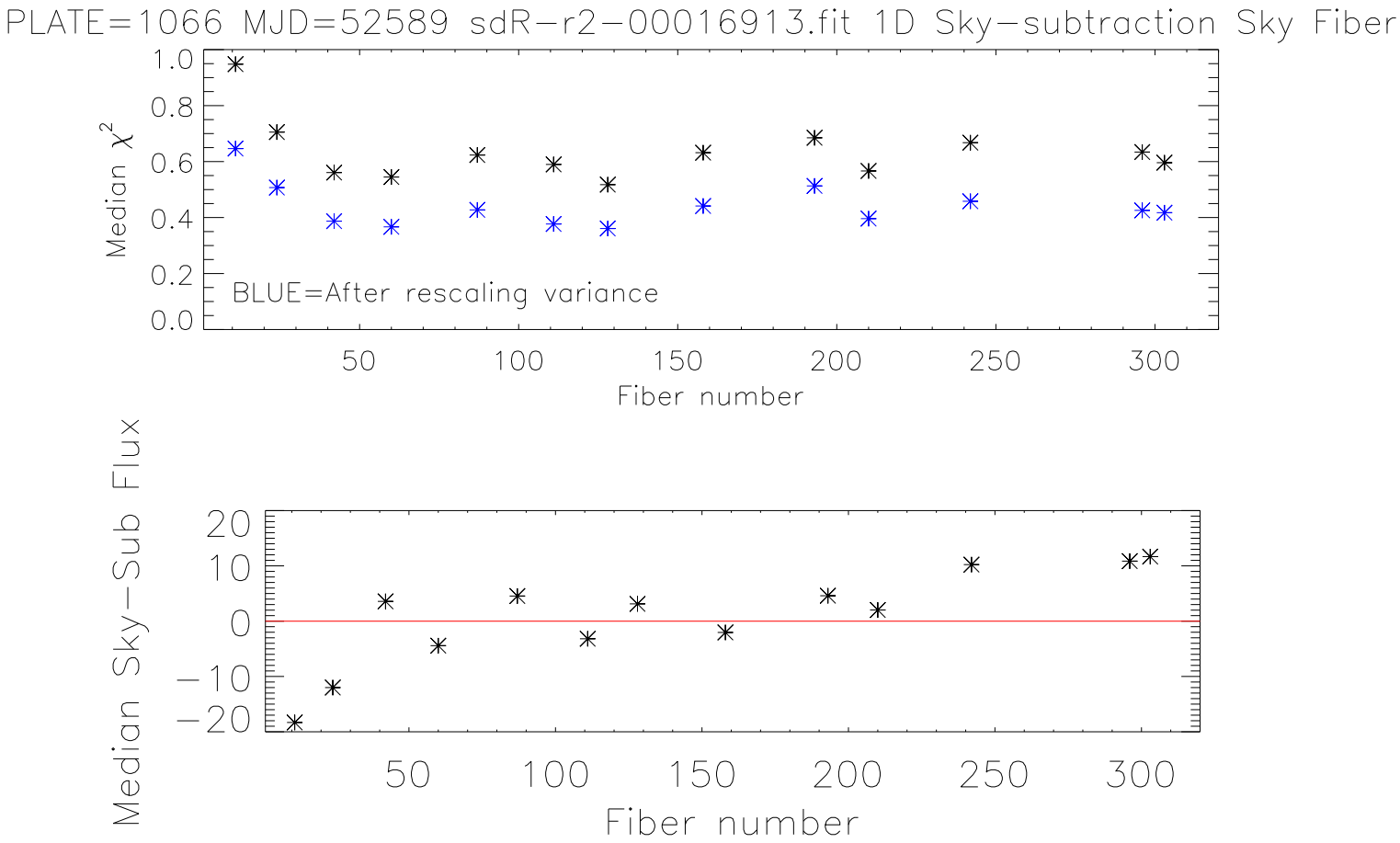

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

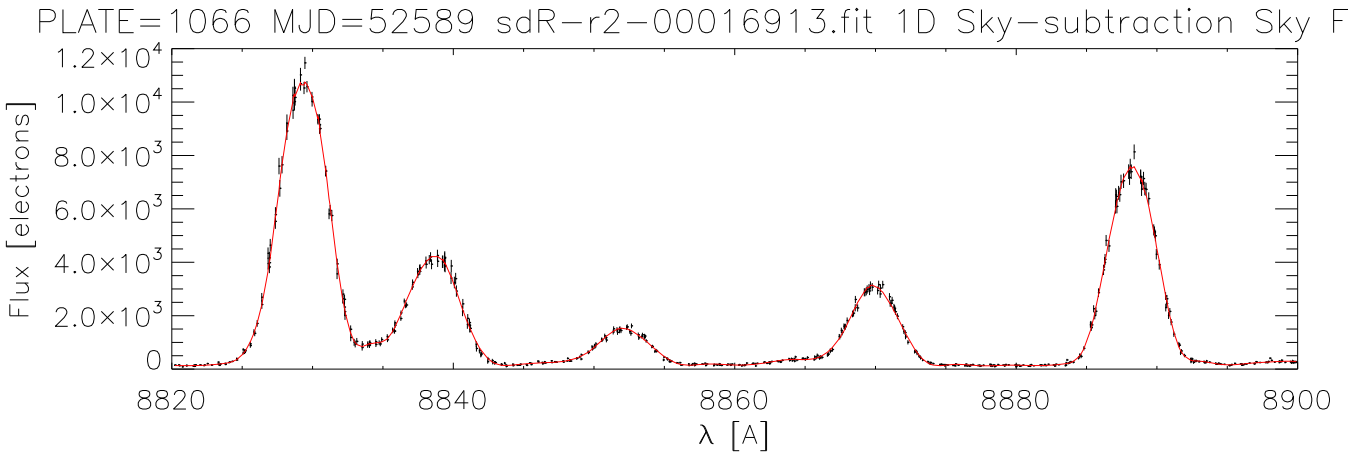

6300.3040
mfib1 16
mfib2 16
stdev 0.027
extra 0.36
6363.7760
mfib1 15
mfib2 15
stdev 0.024
extra 0.39
6553.6100
mfib1 15
mfib2 15
stdev 0.027
extra 0.38
6923.2100
mfib1 16
mfib2 16
stdev 0.028
extra 0.37
6949.0300
mfib1 16
mfib2 16
stdev 0.021
extra 0.46
7571.7500
mfib1 15
mfib2 15
stdev 0.039
extra 0.39
7794.1200
mfib1 14
mfib2 15
stdev 0.024
extra 0.26
7821.5100
mfib1 15
mfib2 15
stdev 0.023
extra 0.29
8399.1600
mfib1 15
mfib2 15
stdev 0.016
extra 0.34
8430.1700
mfib1 15
mfib2 15
stdev 0.020
extra 0.33
8885.8300
mfib1 15
mfib2 15
stdev 0.018
extra 0.34
8919.6100
mfib1 15
mfib2 15
stdev 0.026
extra 0.34
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

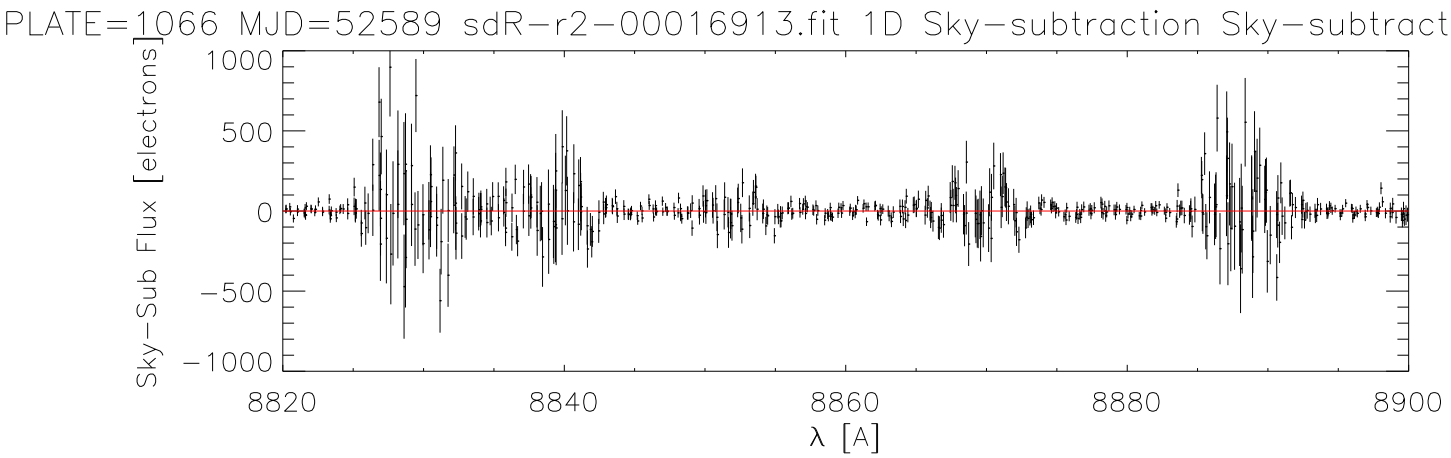

sky shift, pixels
0.40
0.38
0.36
0.34
0.32
0.30
0.28
0.26
5000
6000
7000
8000
9000
10000

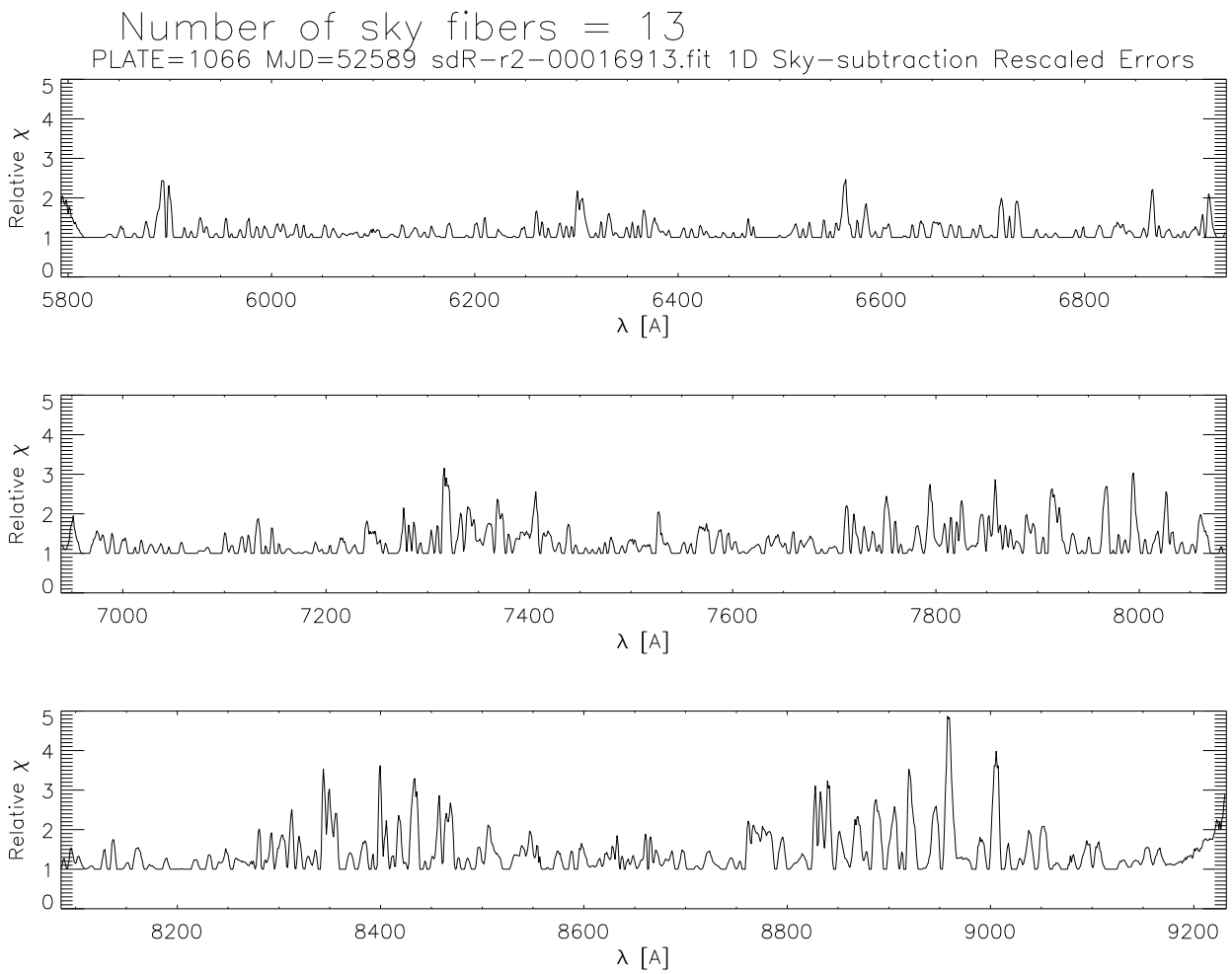

PLATE=1066 MJD=52589 Smooth superflat for sdR-r2-00016913.fit
2.0
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
6000
7000
8000
9000
Wavelength (Å)

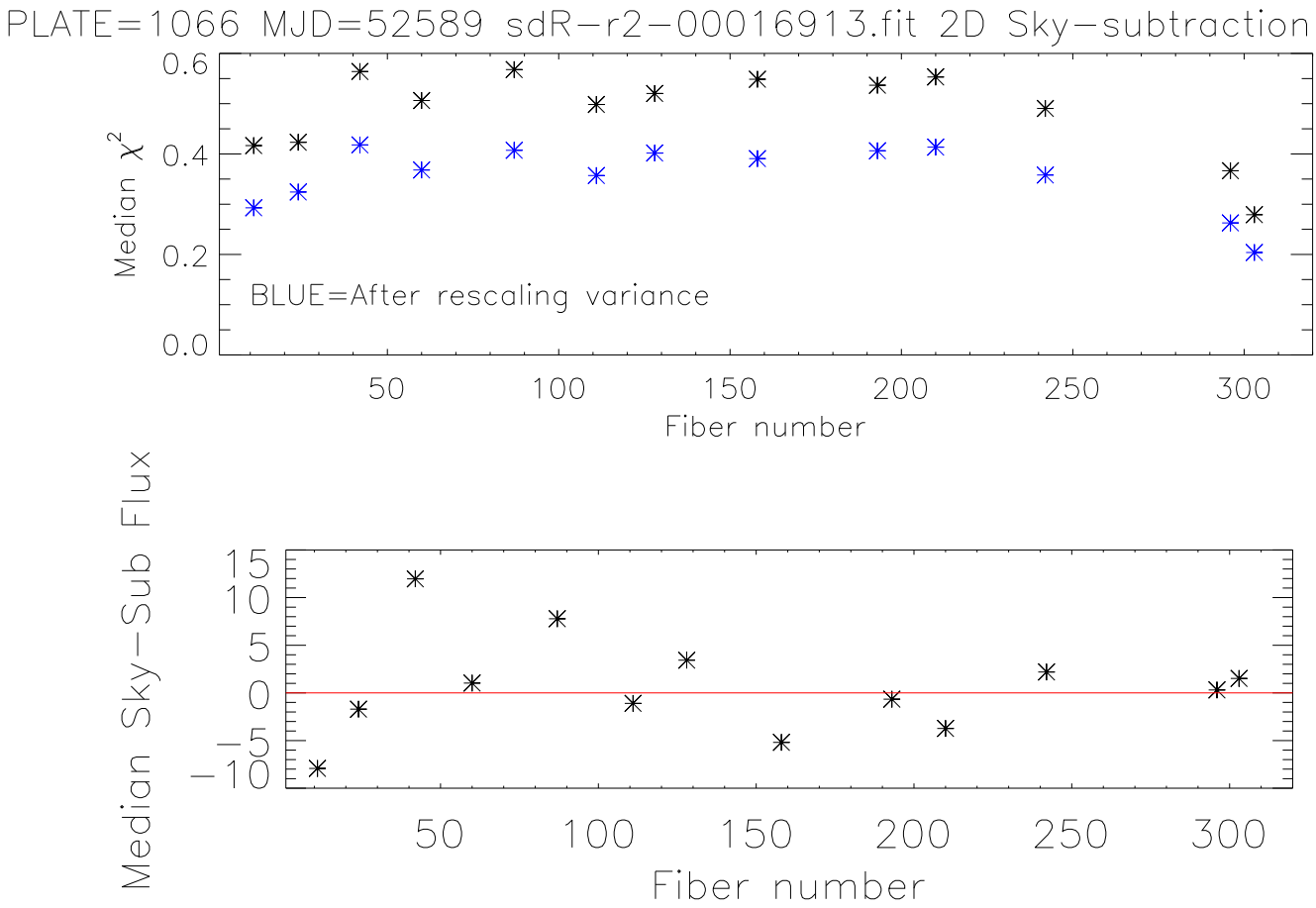
es= −0.0000

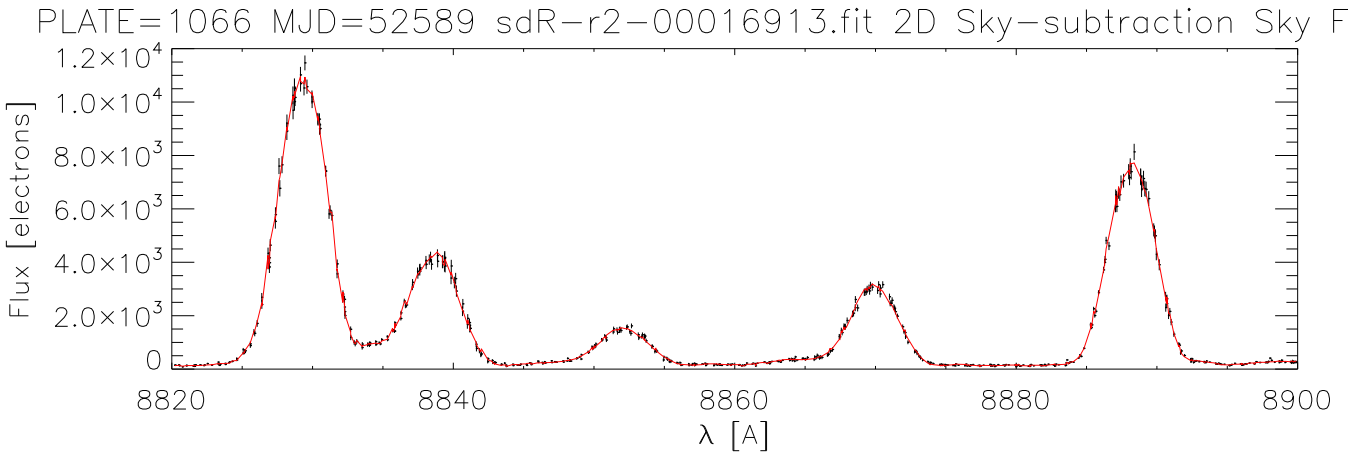

PLATE=1066 MJD=52589 sdR-r2-00016913.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
20
10
0
-10
-20
50
100
150
200
250
300
Fiber number

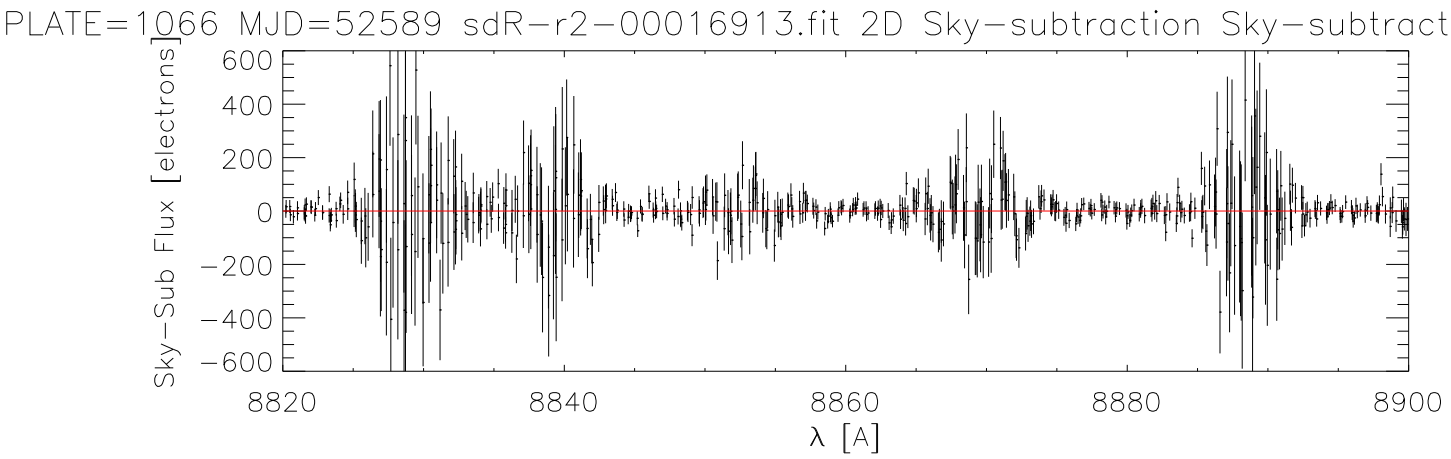

PLATE=1066 MJD=52589 sdR-r2-00016913.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
8820
8840
8860
8880
8900
λ [A]

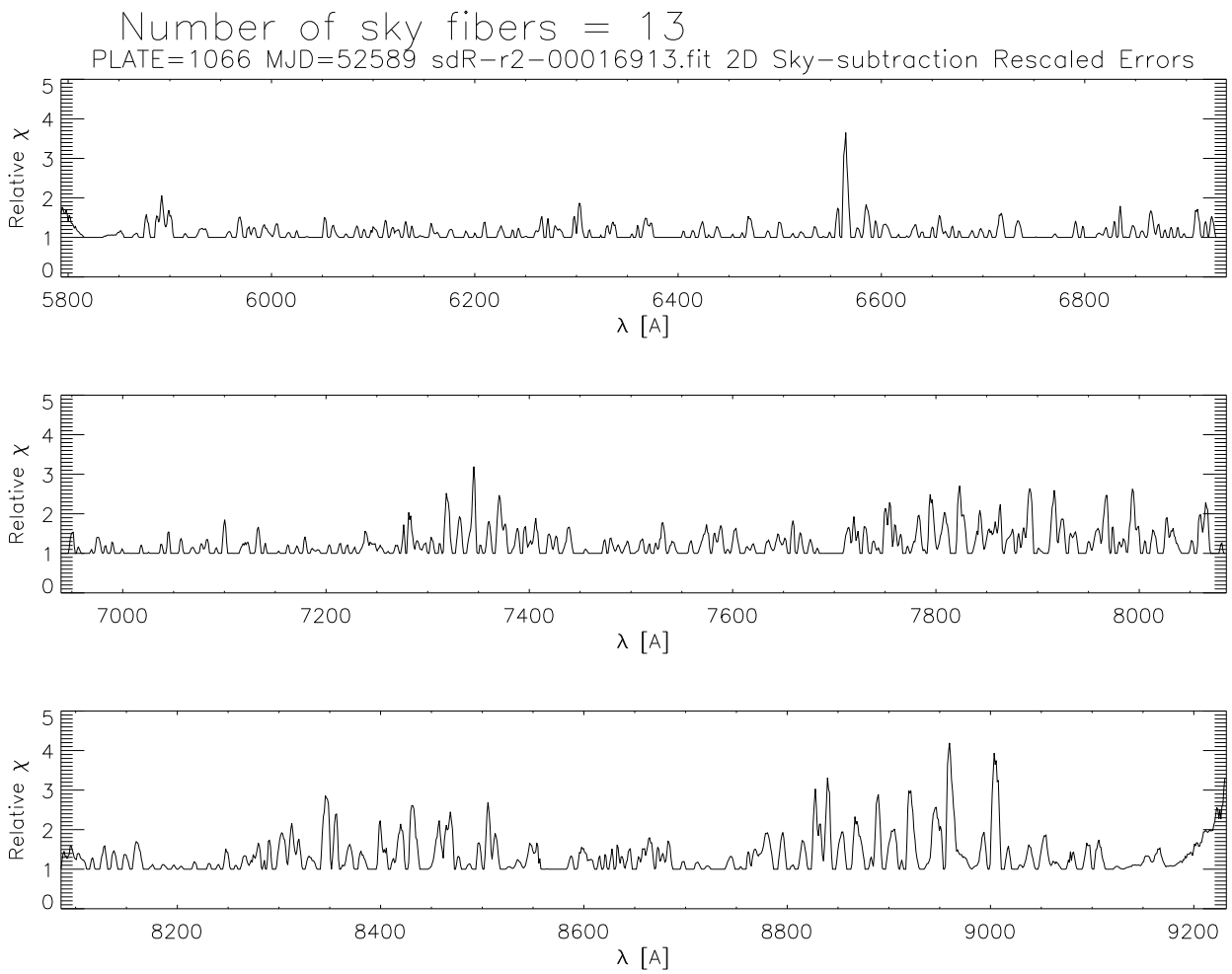

PLATE=1066 MJD=52589 sdR-r2-00016913.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
−500
−1000
8820
8840
8860
8880
8900
λ [A]

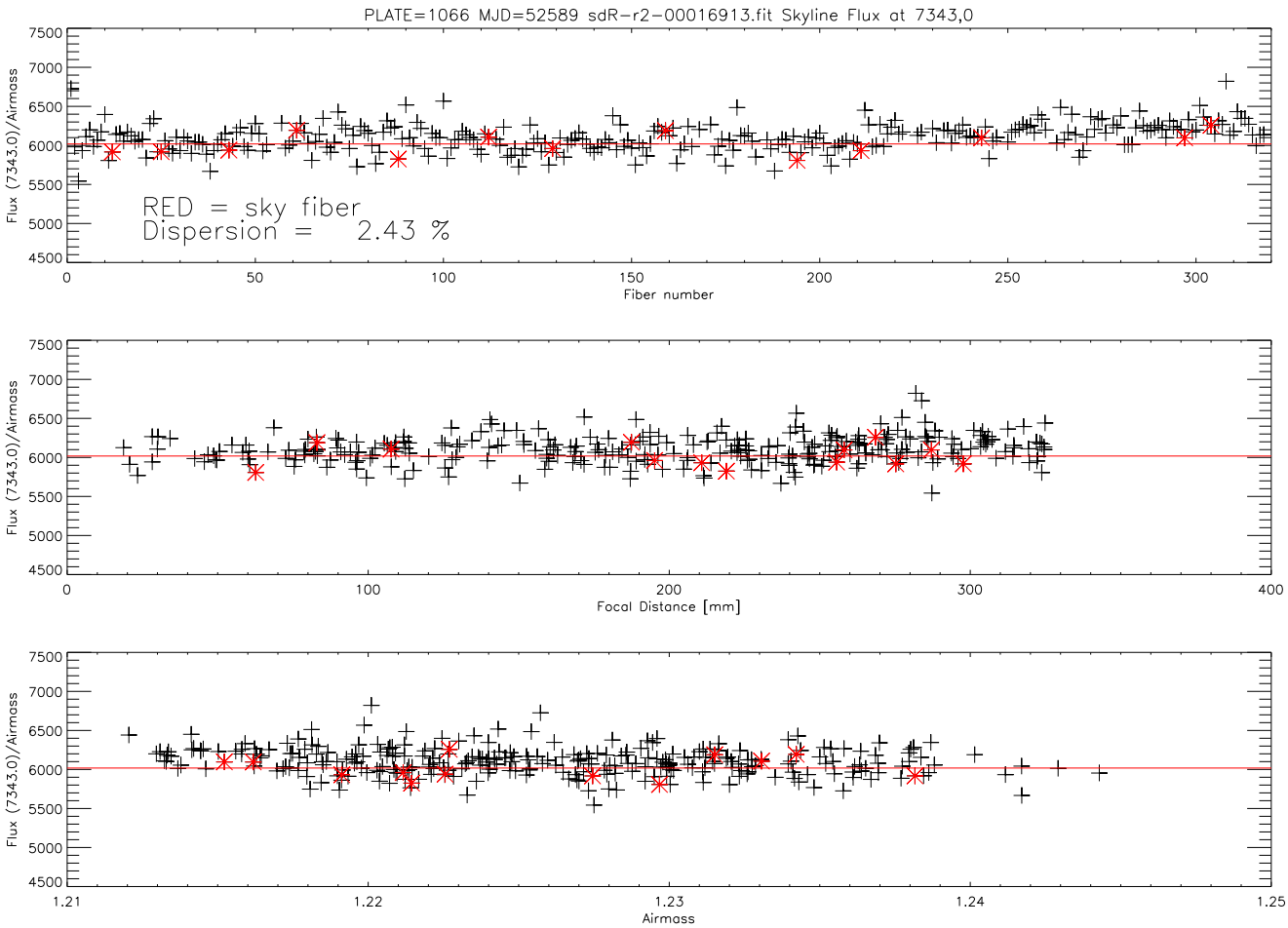

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r2-00016913.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

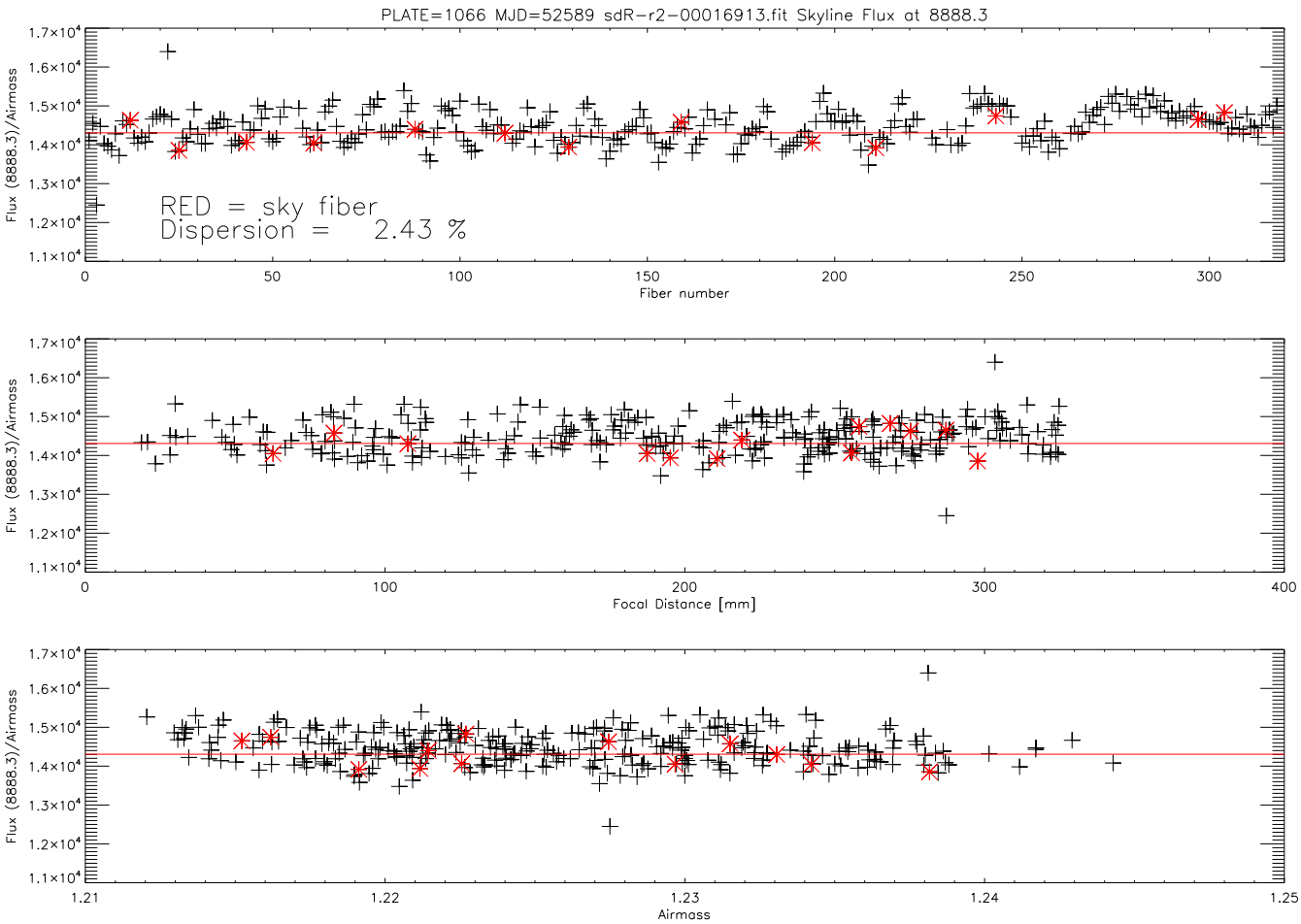

PLATE=1066 MJD=52589 sdR-r2-00016913.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

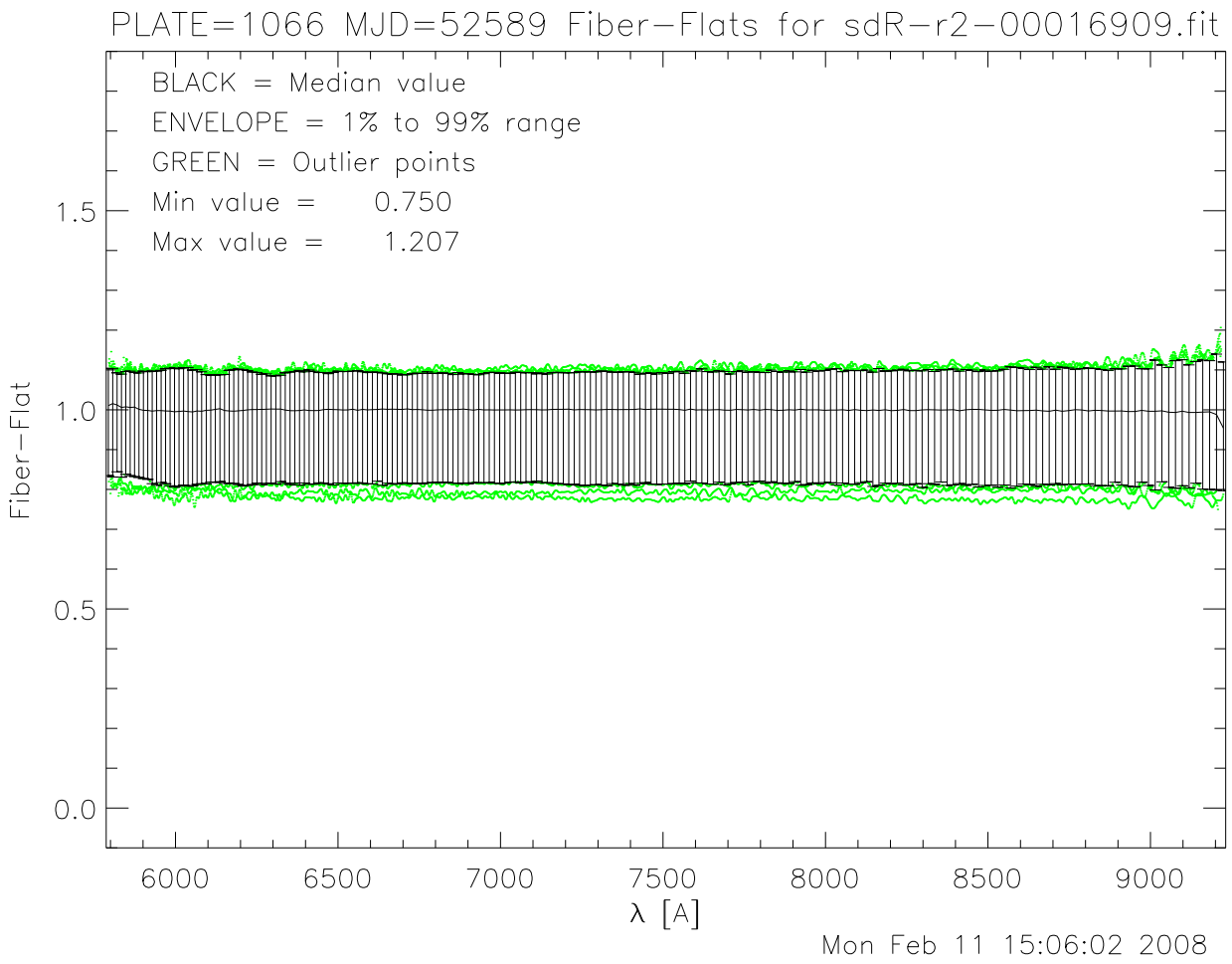

PLATE=1066 MJD=52589 sdR-r2-00016913.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
8820
8840
8860
8880
8900
λ [A]

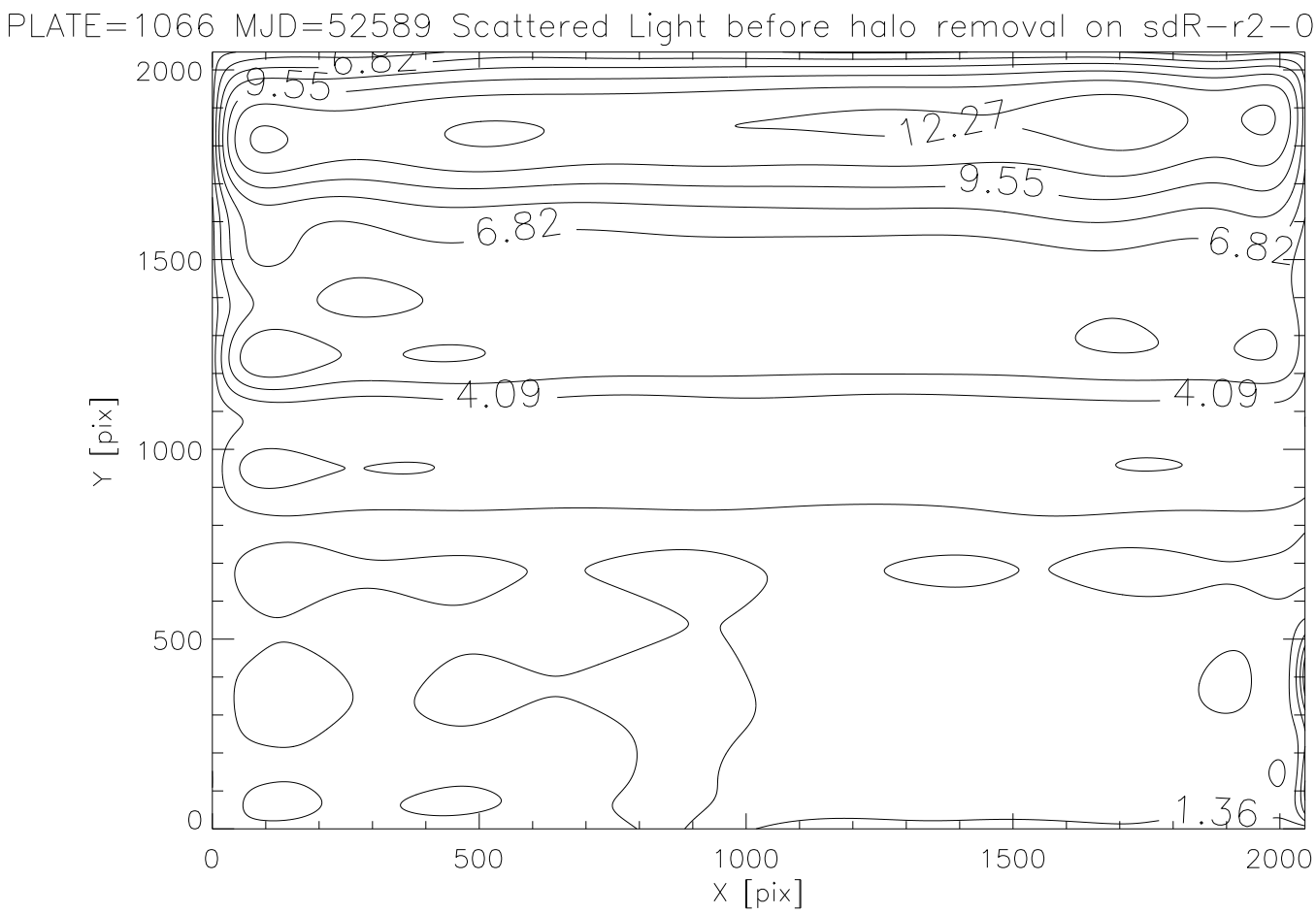

PLATE=1066 MJD=52589 sdR-r2-00016913.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
−600
8820
8840
8860
8880
8900
λ [A]

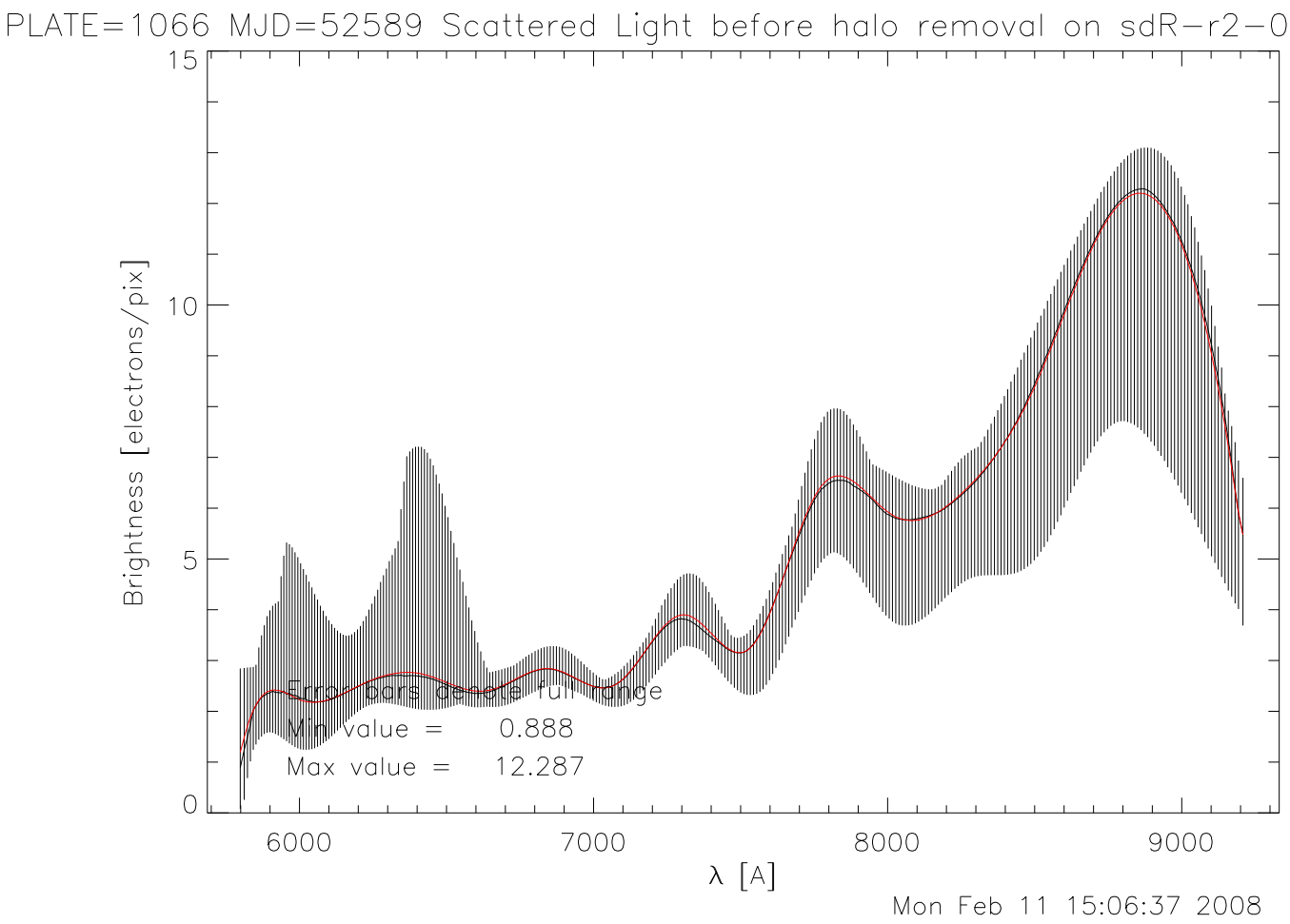

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r2-00016913.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

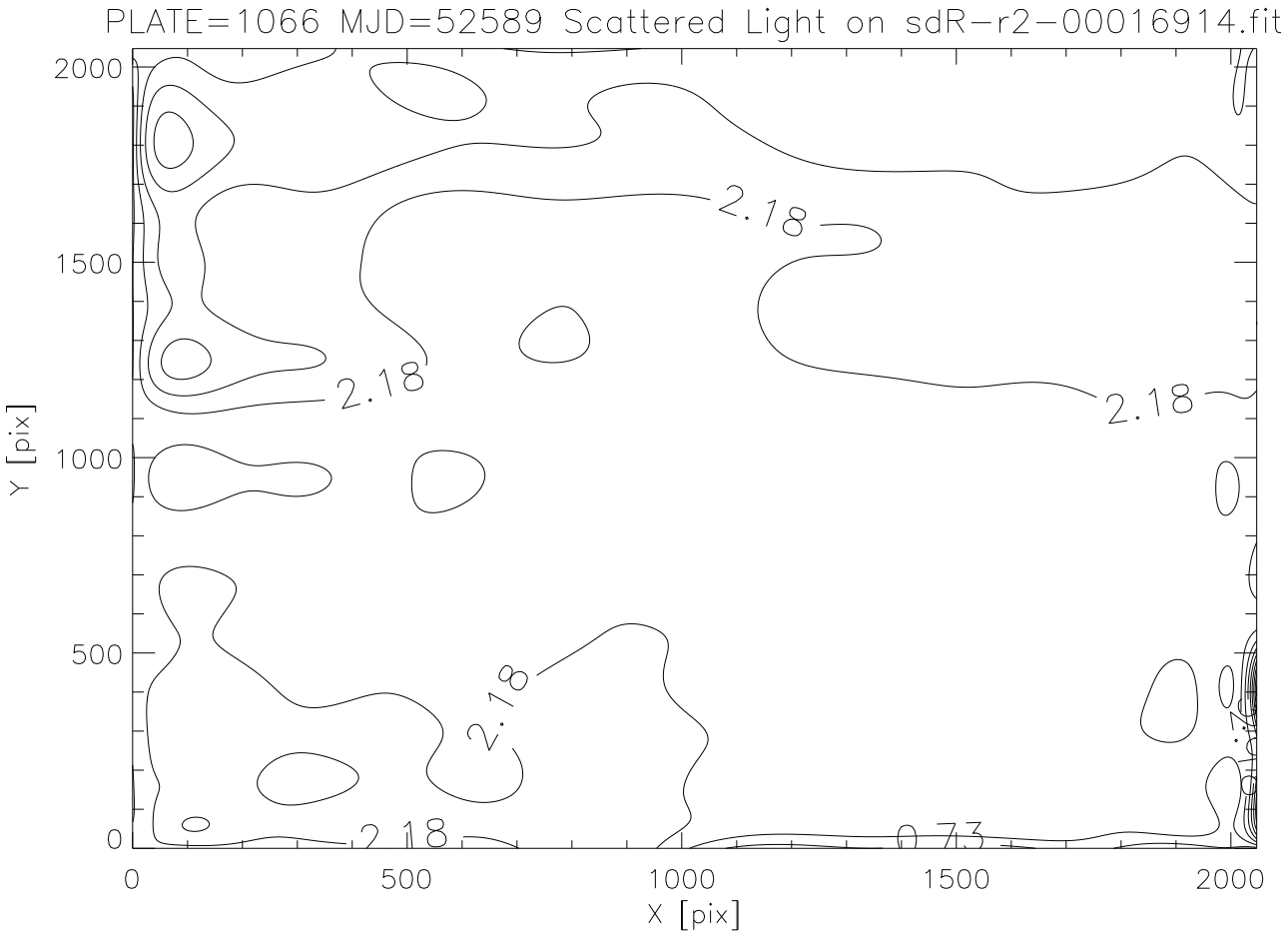

PLATE=1066 MJD=52589 sdR-r2-00016913.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.43 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

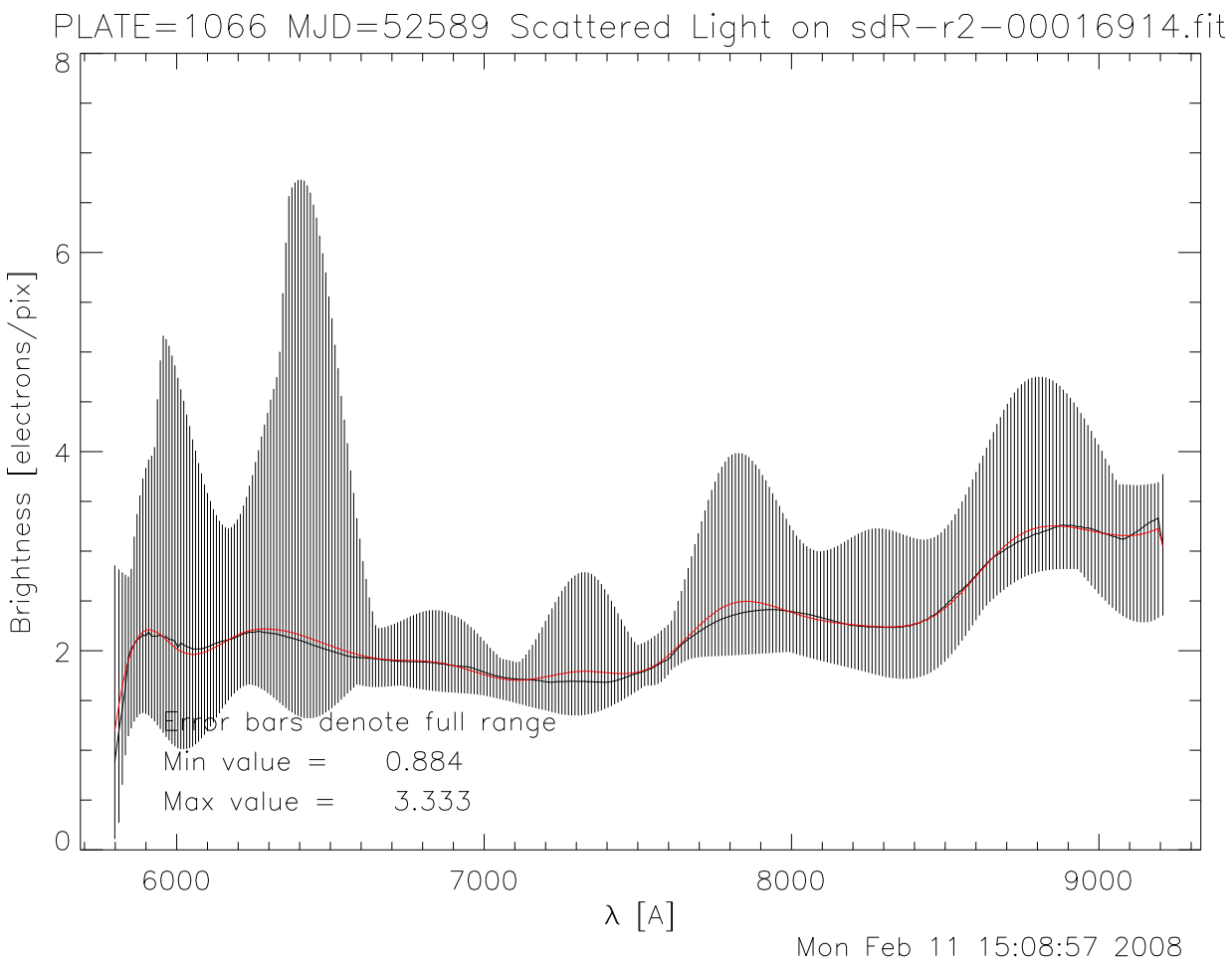

PLATE=1066 MJD=52589 sdR-r2-00016913.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.43 %
Fiber number
Focal Distance [mm]
Airmass

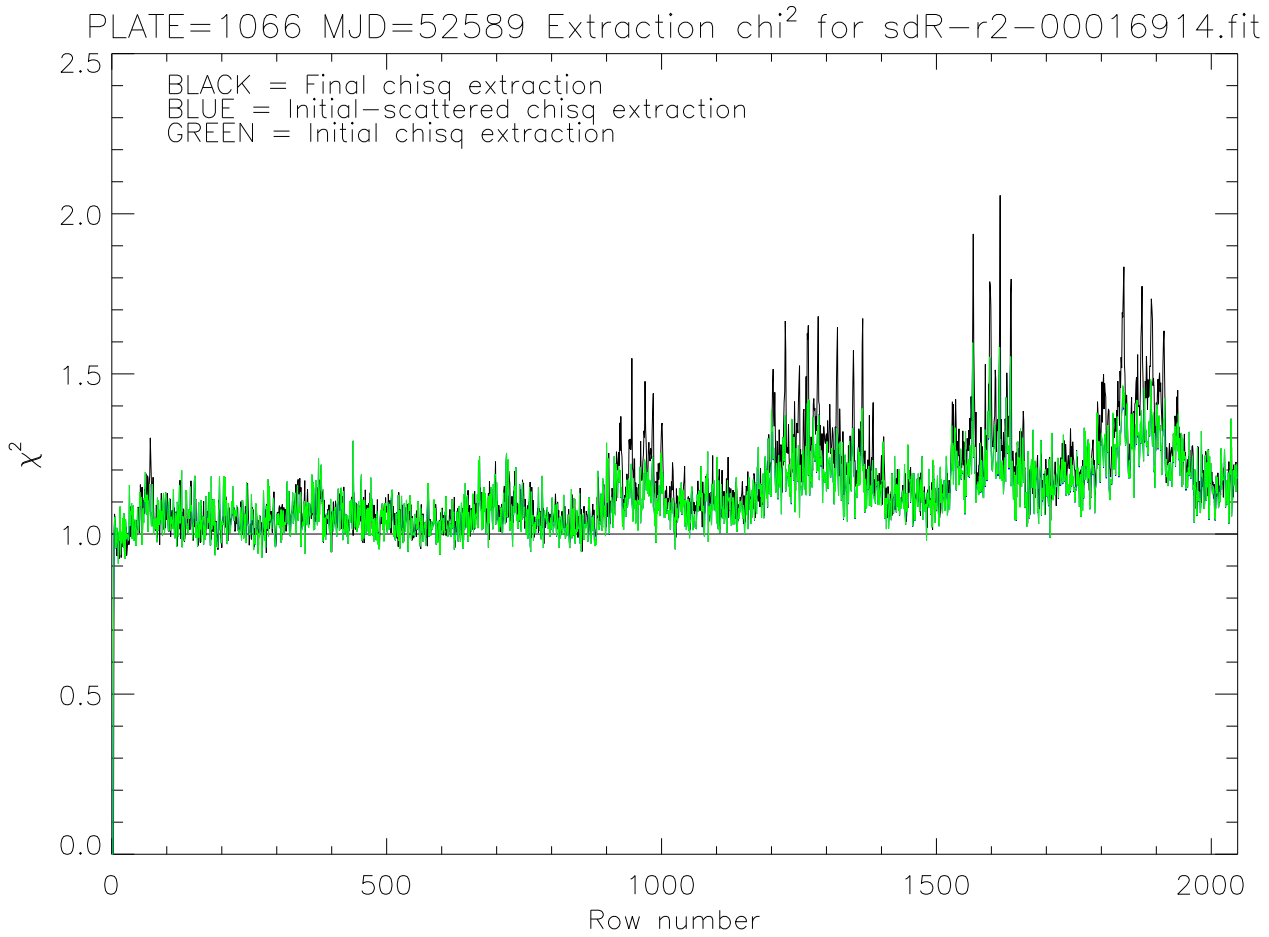

PLATE=1066 MJD=52589 Fiber−Flats for sdR−r2−00016909.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.750
Max value = 1.207
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 15:06:02 2008

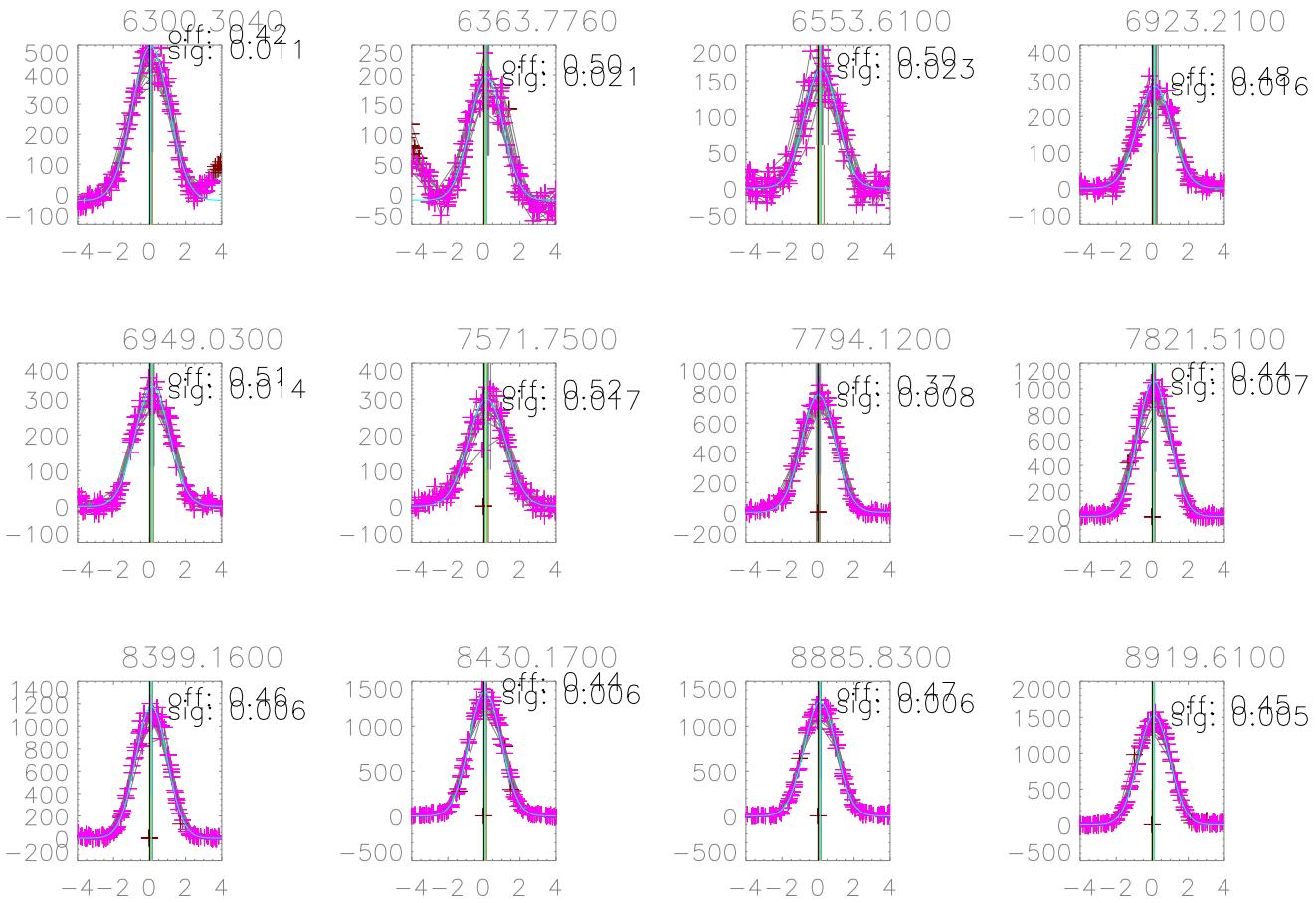

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r2-00016914.fi
6.82
9.55
12.27
9.55
6.82
6.82
4.09
4.09
0
1.36
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

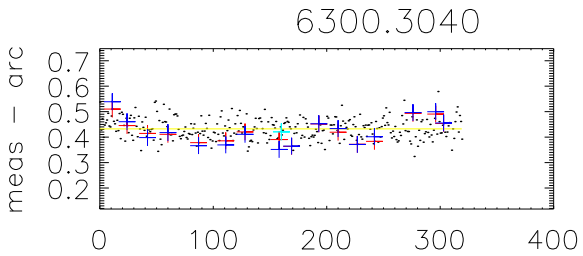

PLATE=1066 MJD=52589 Scattered Light before halo removal on sdR-r2-00016914.fi
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 0.888
Max value = 12.287
Mon Feb 11 15:06:37 2008

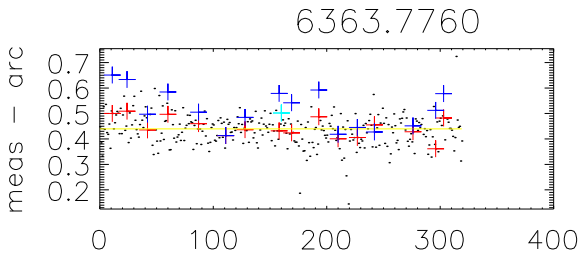

PLATE=1066 MJD=52589 Scattered Light on sdR-r2-00016914.fit
2000
1500
1000
500
0
Y [pix]
2.18
2.18
2.18
2.18
0
0
0.73
0
0
500
1000
1500
2000
X [pix]

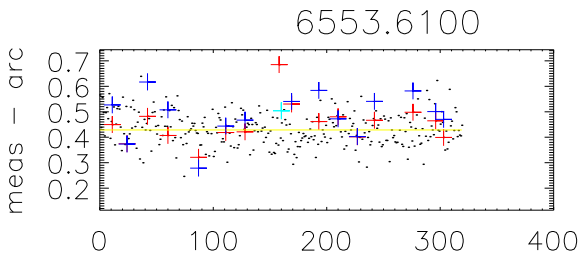

PLATE=1066 MJD=52589 Scattered Light on sdR-r2-00016914.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.884
Max value = 3.333
Mon Feb 11 15:08:57 2008

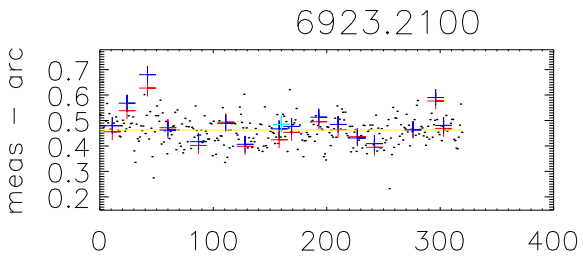

PLATE=1066 MJD=52589 Extraction chi^2 for sdR-r2-00016914.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

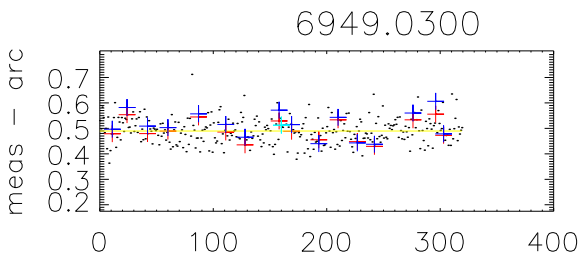

6300.3040
off: 0.42
sig: 0.011
6363.7760
off: 0.50
sig: 0.021
6553.6100
off: 0.50
sig: 0.023
6923.2100
off: 0.48
sig: 0.016
6949.0300
off: 0.51
sig: 0.014
7571.7500
off: 0.52
sig: 0.017
7794.1200
off: 0.37
sig: 0.008
7821.5100
off: 0.44
sig: 0.007
8399.1600
off: 0.46
sig: 0.006
8430.1700
off: 0.44
sig: 0.006
8885.8300
off: 0.47
sig: 0.006
8919.6100
off: 0.45
sig: 0.005

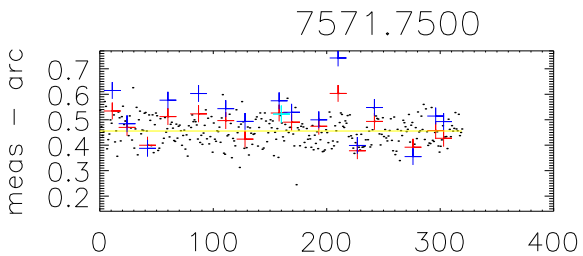

6300.3040
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

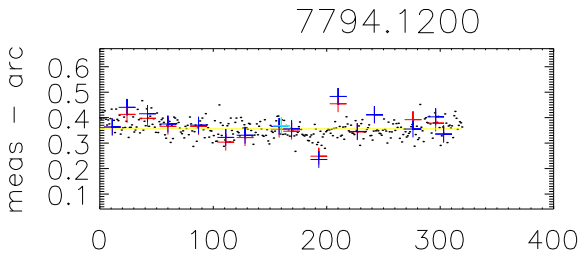

6363.7760
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

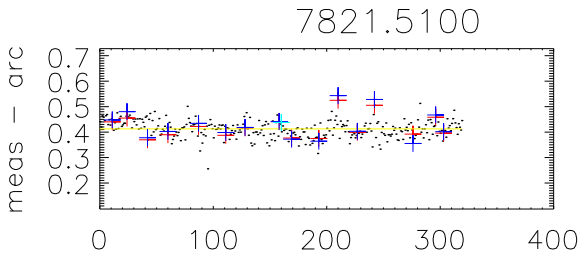

6553.6100
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

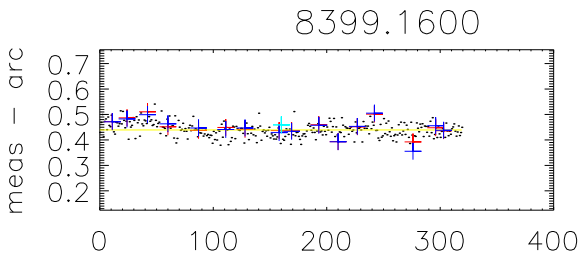

6923.2100
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

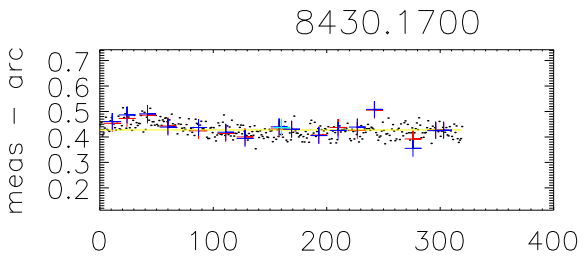

6949.0300
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

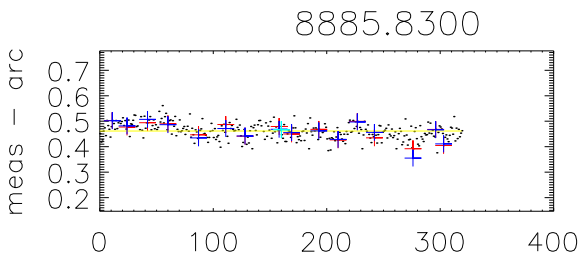

7571.7500
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

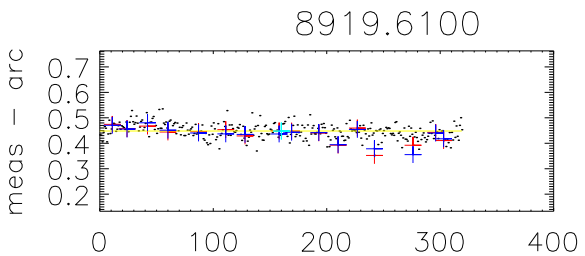

7794.1200
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

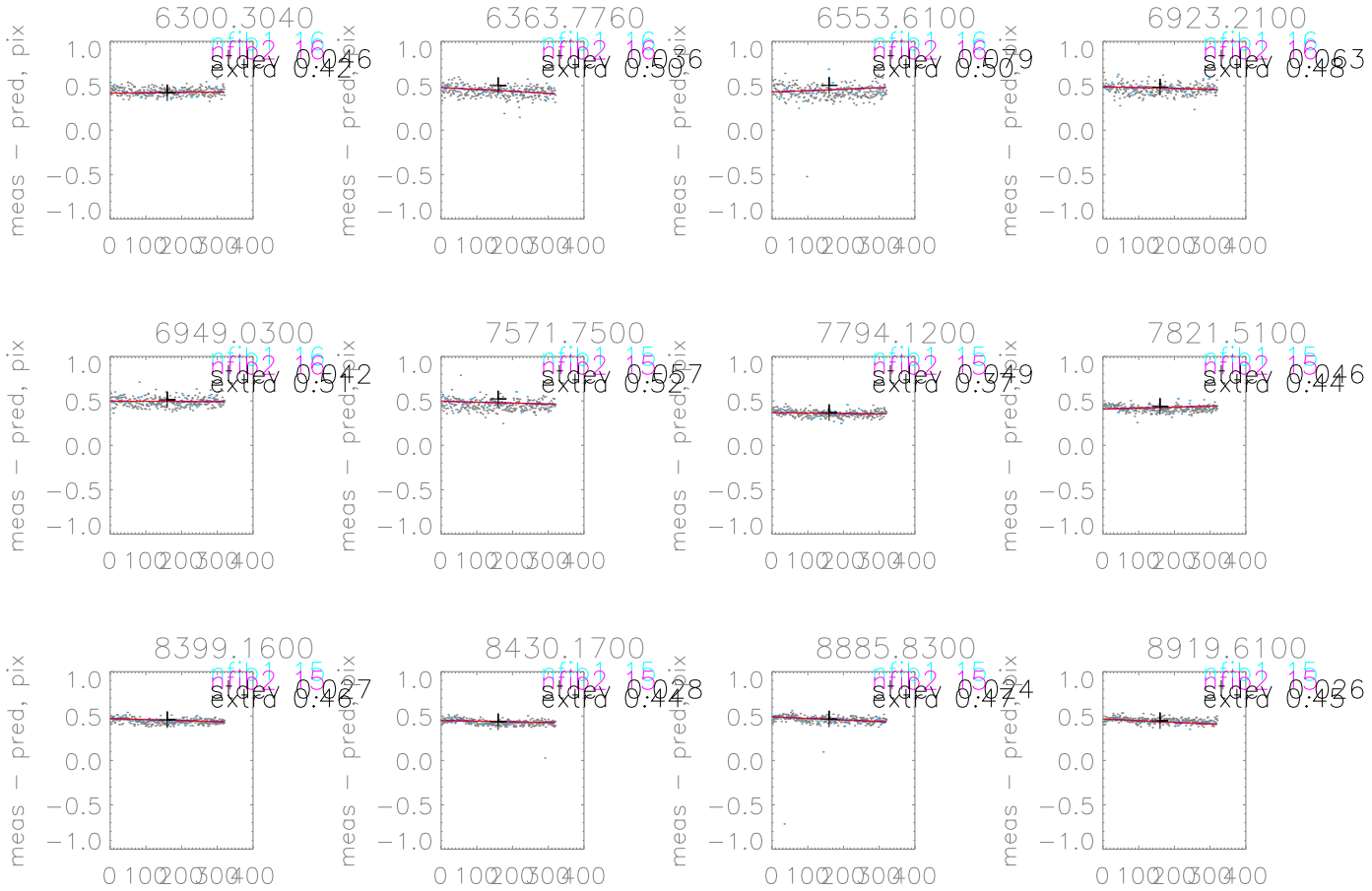

7821.5100
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

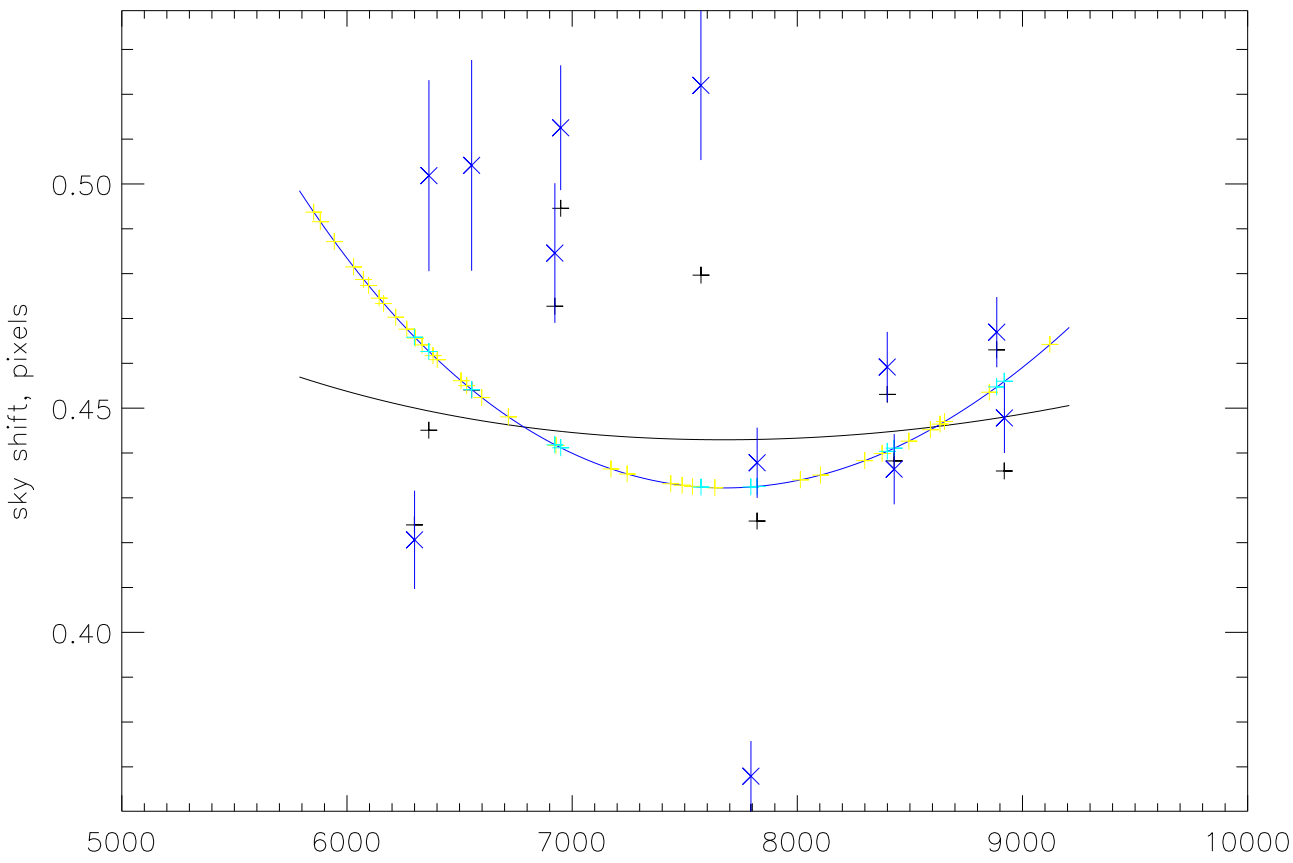

8399.1600
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

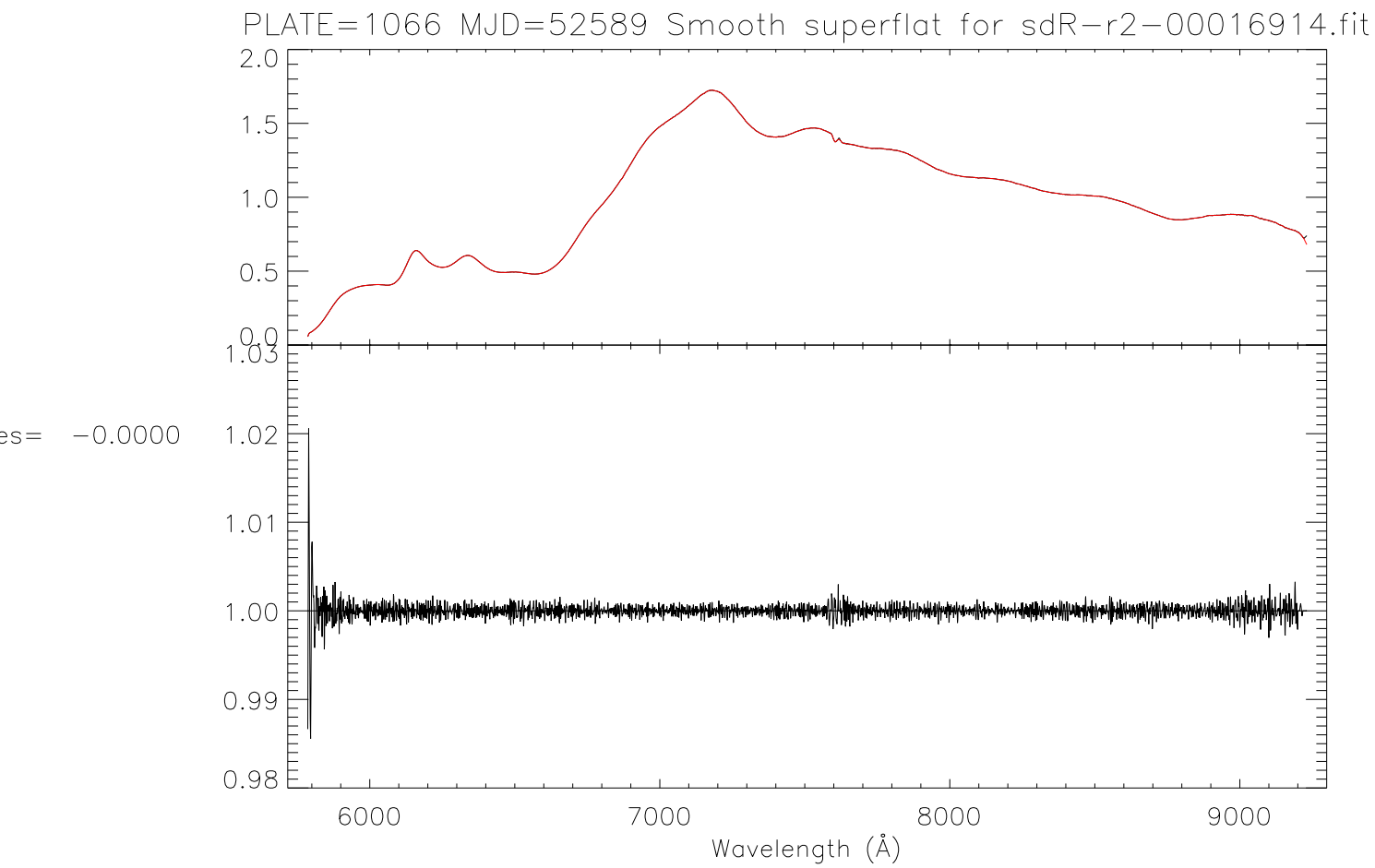

8430.1700
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400


8885.8300
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

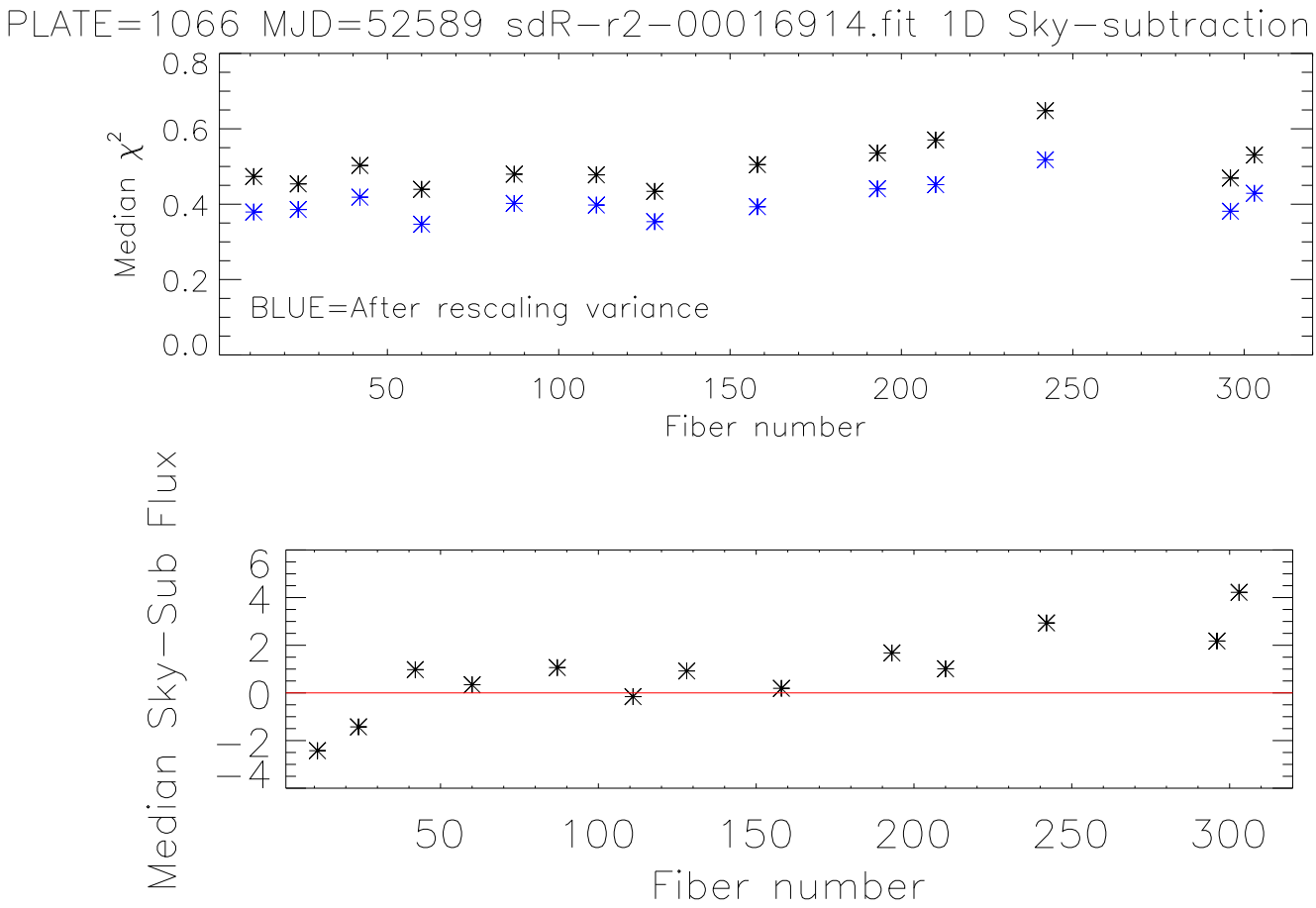

8919.6100
meas − arc
0.7
0.6
0.5
0.4
0.3
0.2
0
100
200
300
400

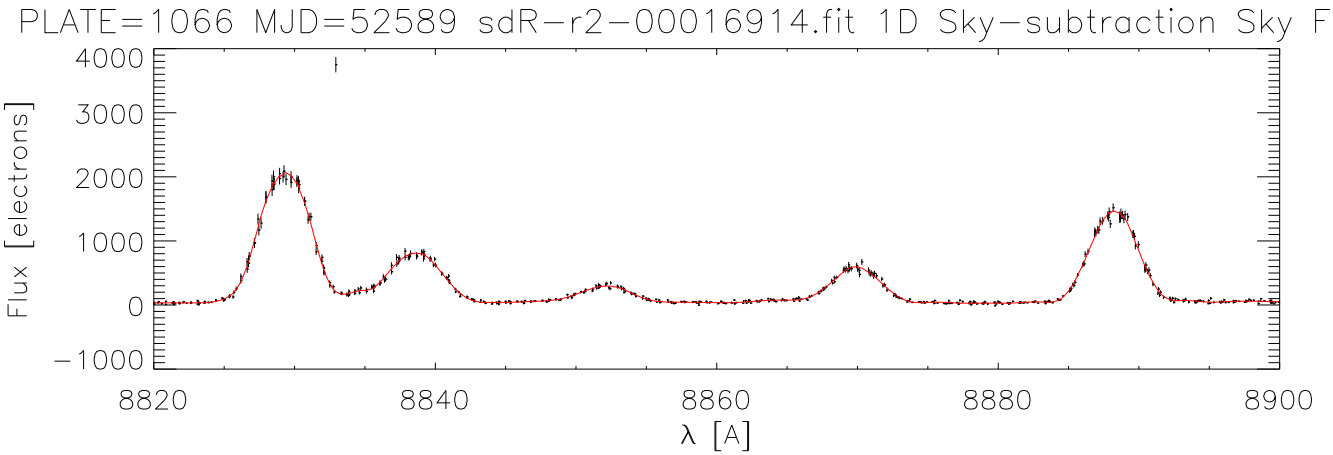

6300.3040
stdev 0.046
extra 0.42
6363.7760
stdev 0.036
extra 0.50
6553.6100
stdev 0.079
extra 0.50
6923.2100
stdev 0.063
extra 0.48
6949.0300
stdev 0.042
extra 0.51
7571.7500
stdev 0.057
extra 0.52
7794.1200
stdev 0.049
extra 0.37
7821.5100
stdev 0.046
extra 0.44
8399.1600
stdev 0.027
extra 0.46
8430.1700
stdev 0.028
extra 0.44
8885.8300
stdev 0.074
extra 0.47
8919.6100
stdev 0.026
extra 0.45
meas − pred, pix
mfb2 16
mfb2 15

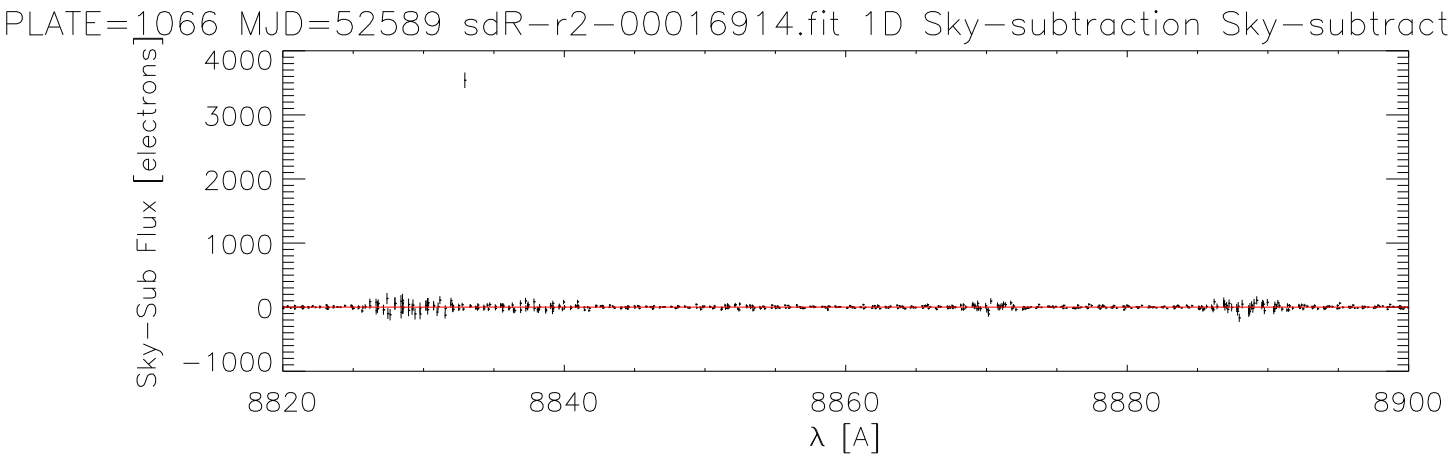

sky shift, pixels
0.50
0.45
0.40
5000
6000
7000
8000
9000
10000

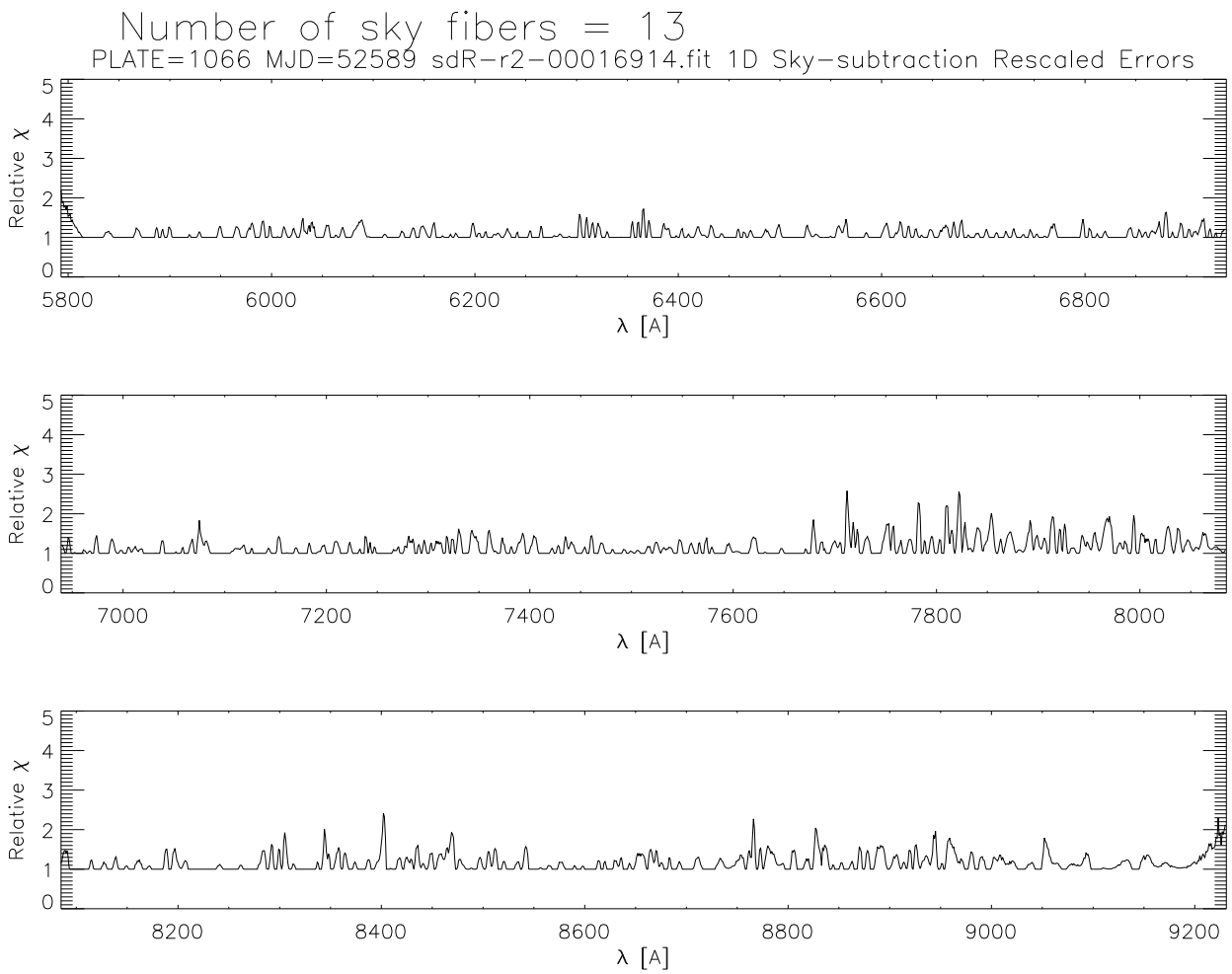

PLATE=1066 MJD=52589 Smooth superflat for sdR-r2-00016914.fit
2.0
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
6000
7000
8000
9000
Wavelength (Å)

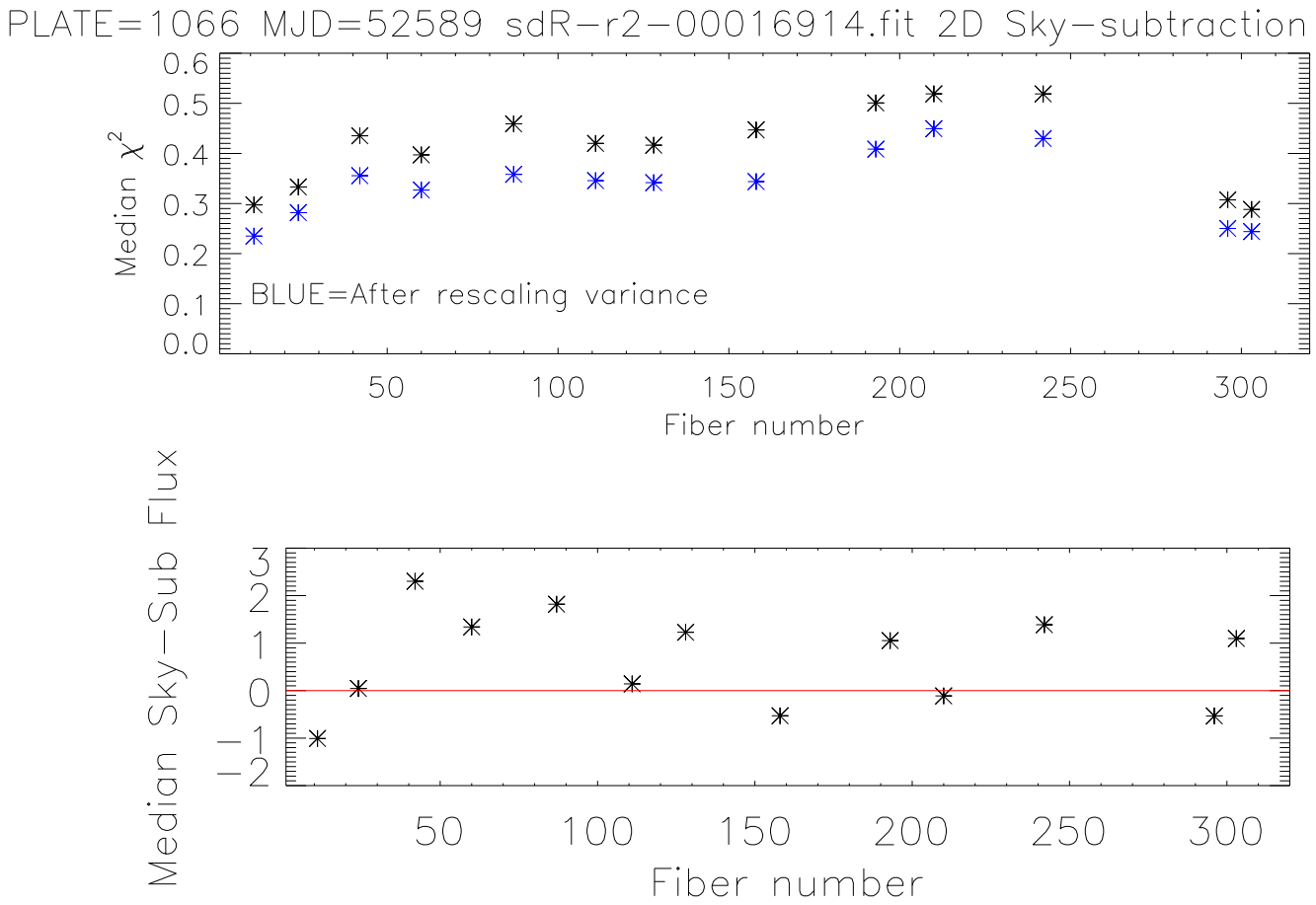
es= −0.0000

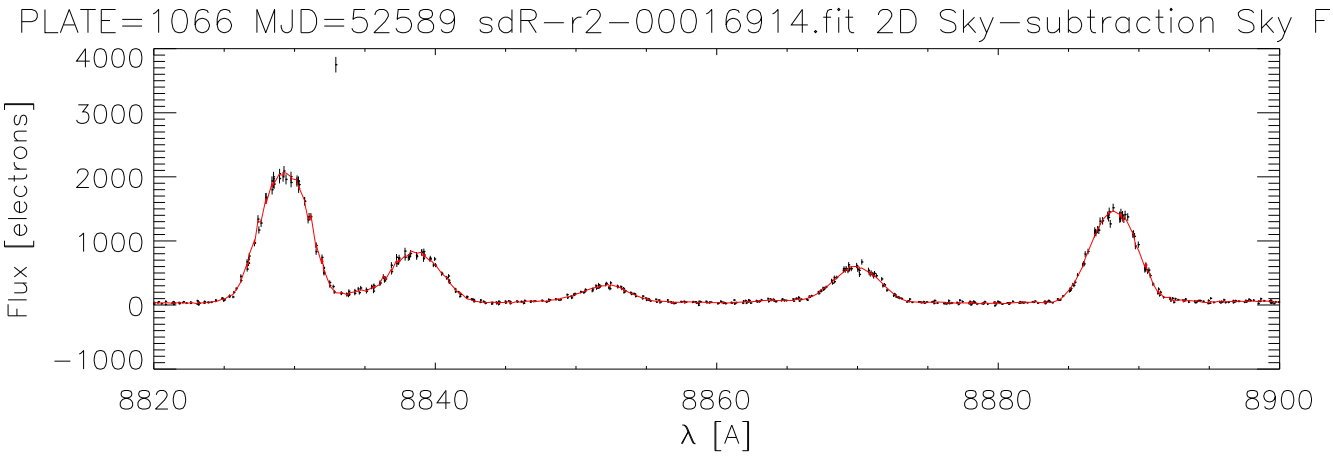

PLATE=1066 MJD=52589 sdR-r2-00016914.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

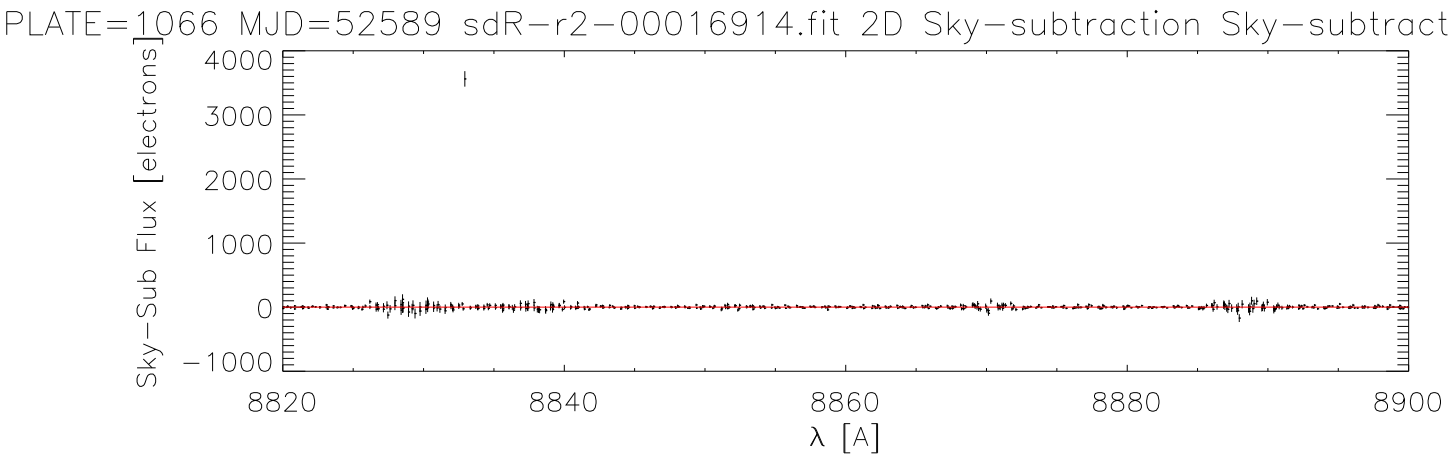

PLATE=1066 MJD=52589 sdR-r2-00016914.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

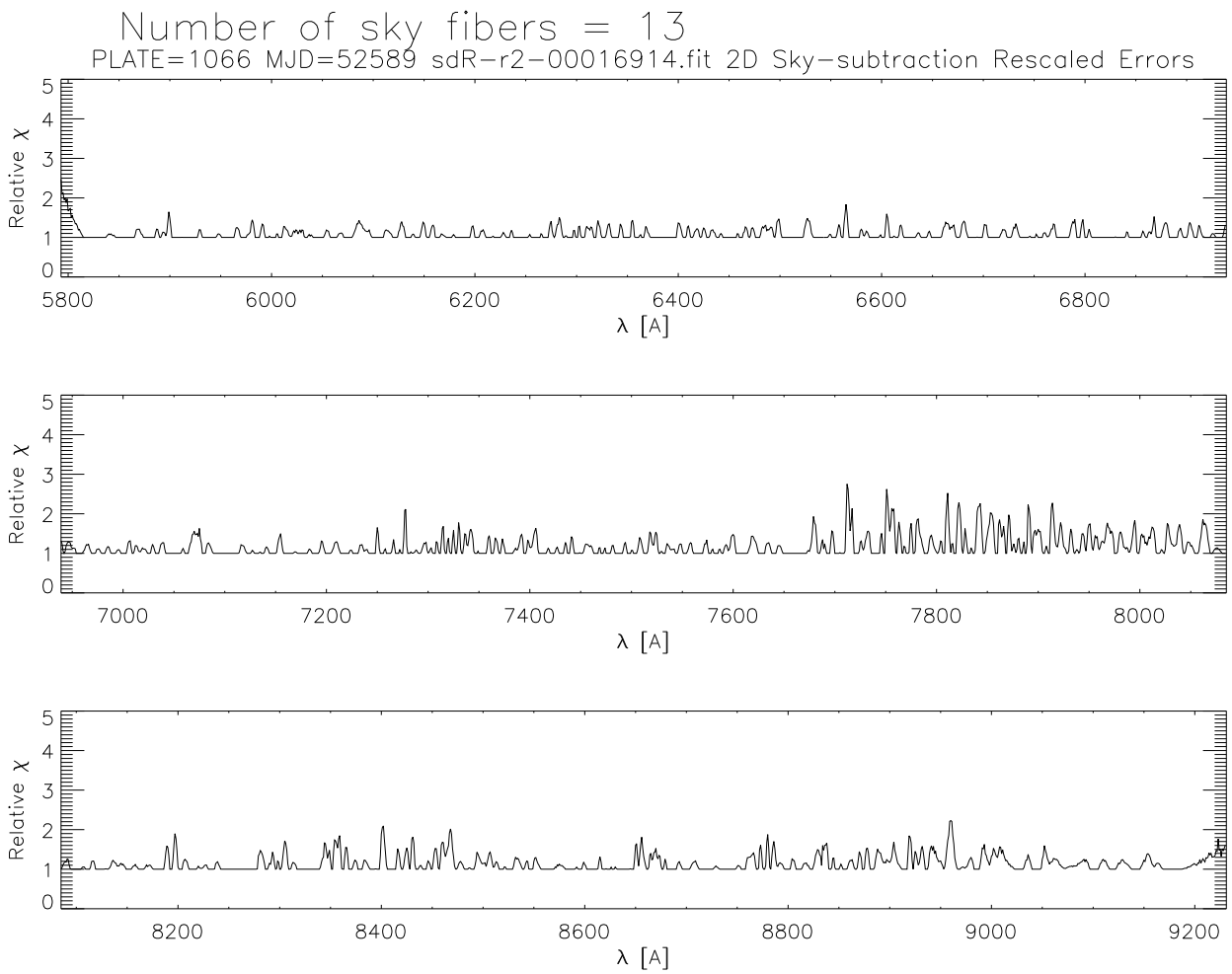

PLATE=1066 MJD=52589 sdR-r2-00016914.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

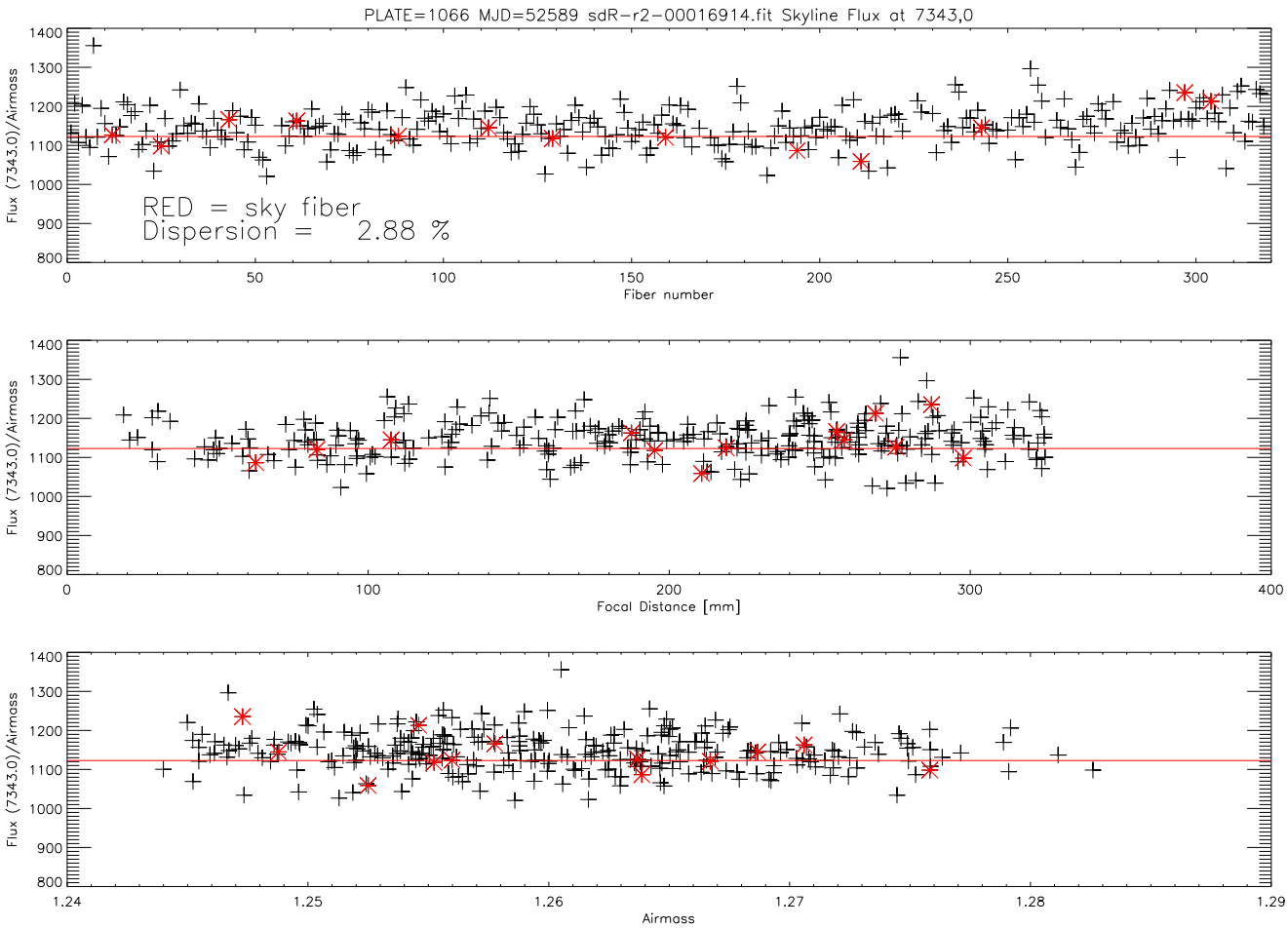

Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r2-00016914.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

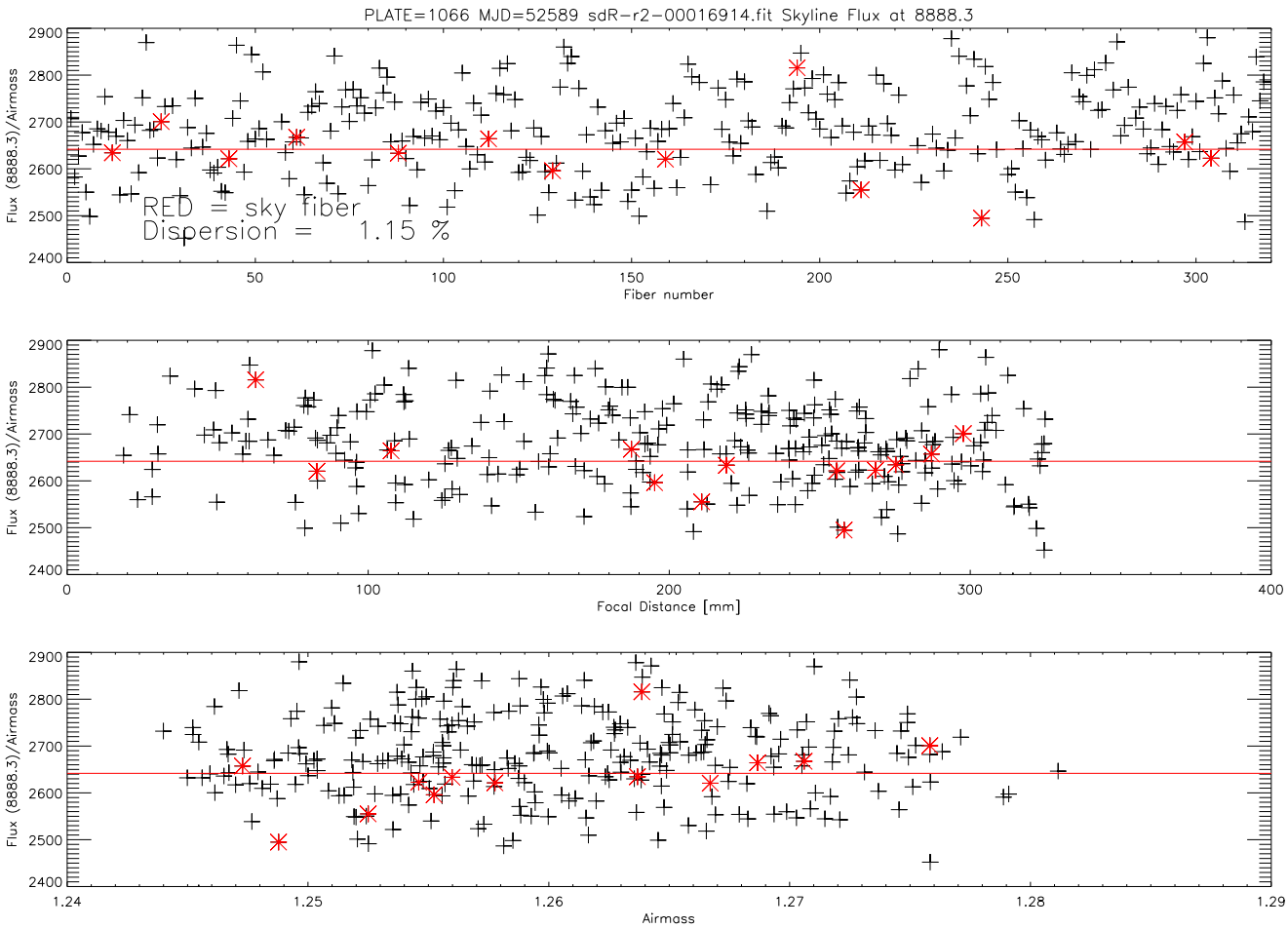

PLATE=1066 MJD=52589 sdR-r2-00016914.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=1066 MJD=52589 sdR-r2-00016914.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]


PLATE=1066 MJD=52589 sdR-r2-00016914.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 13
PLATE=1066 MJD=52589 sdR-r2-00016914.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=1066 MJD=52589 sdR-r2-00016914.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.88 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=1066 MJD=52589 sdR-r2-00016914.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.15 %
Fiber number
Focal Distance [mm]
Airmass