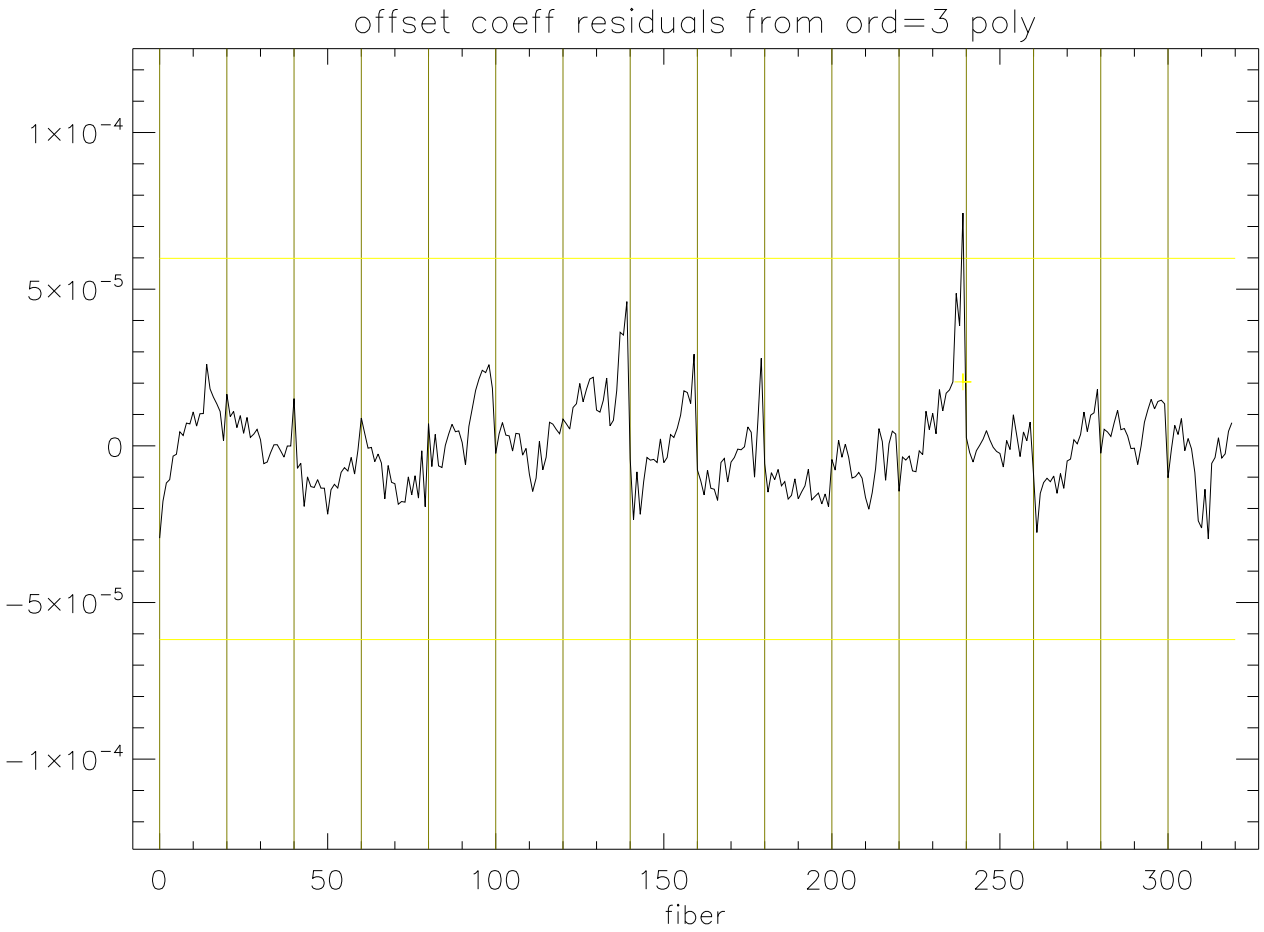
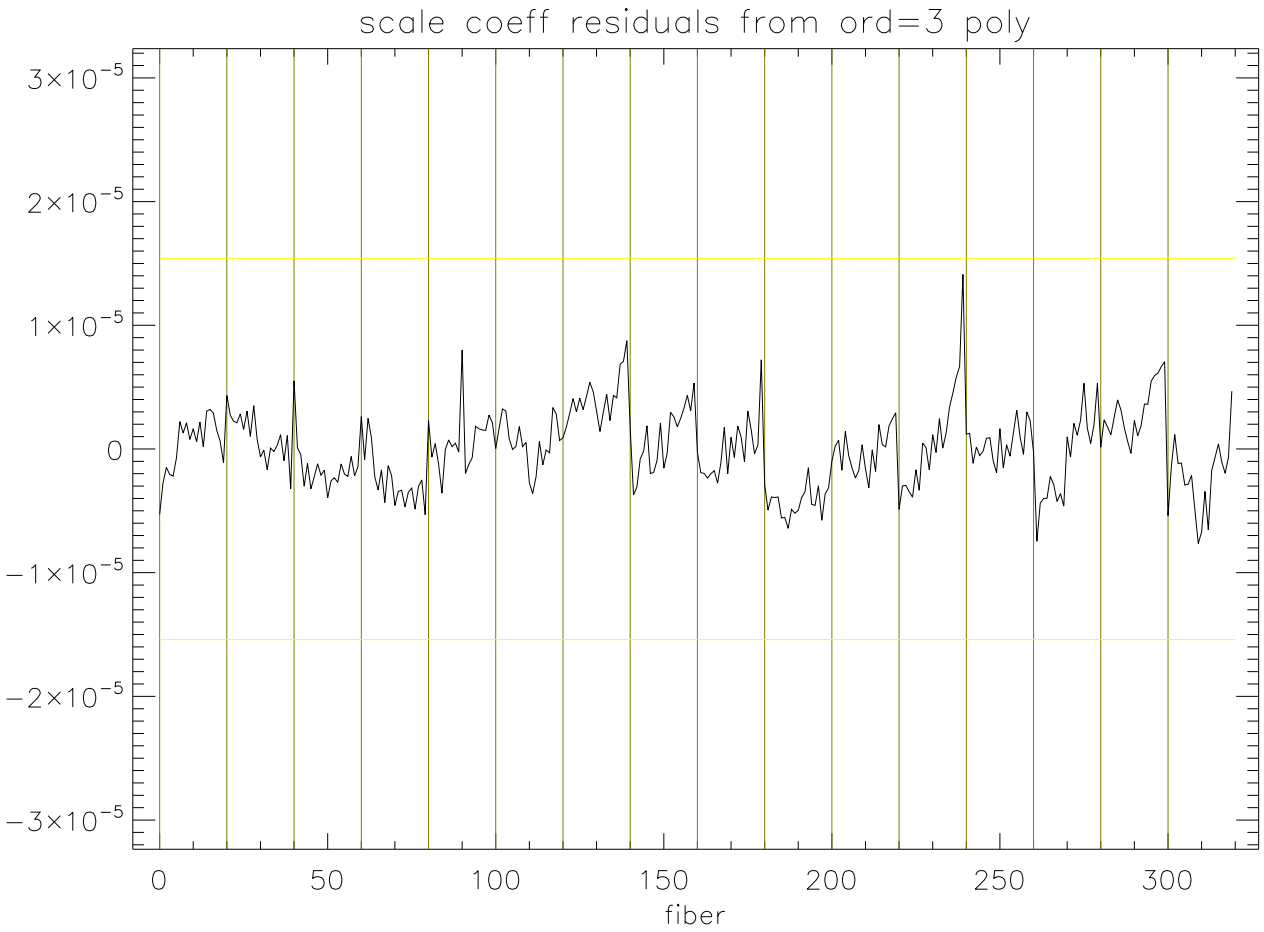
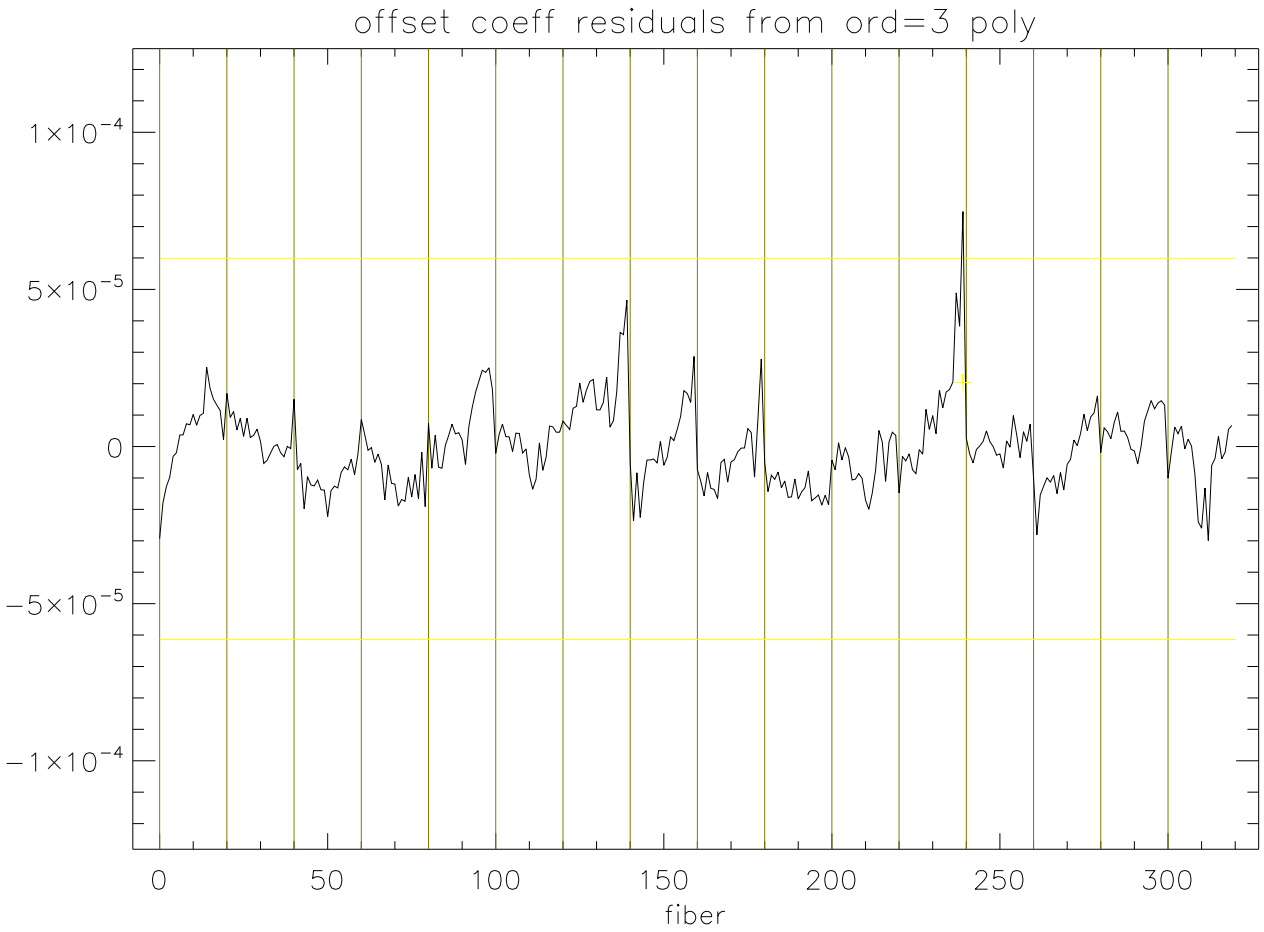
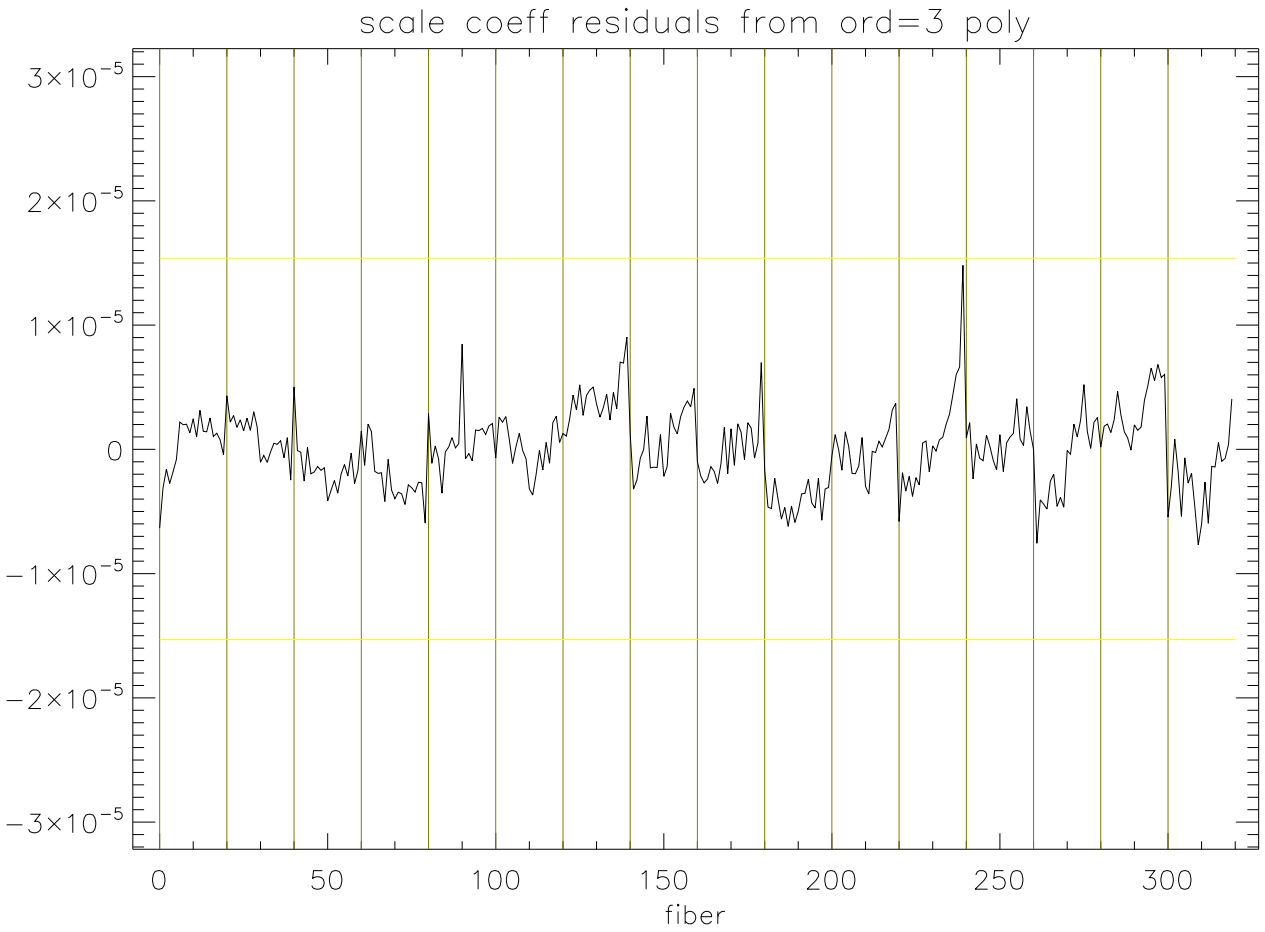
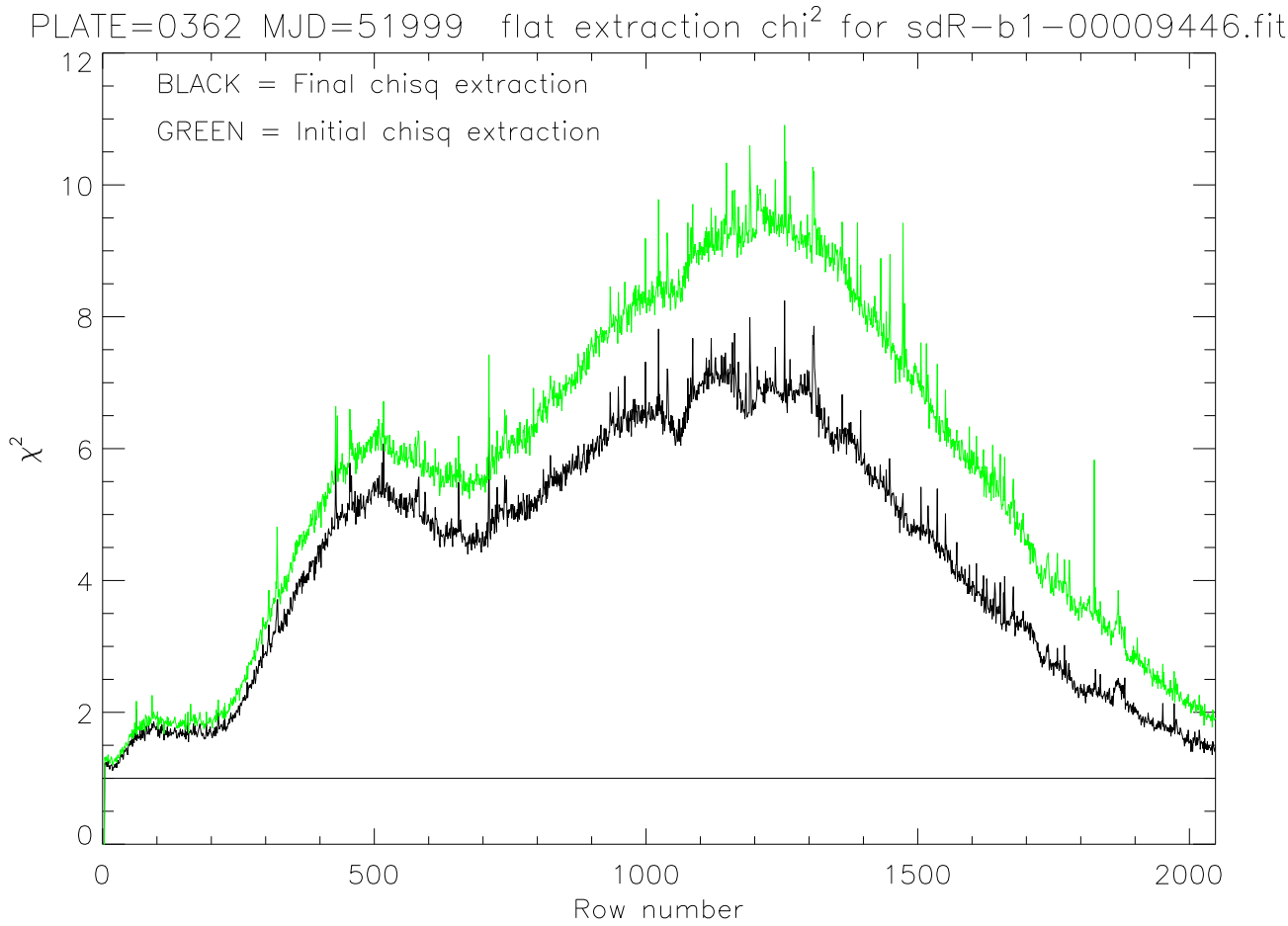
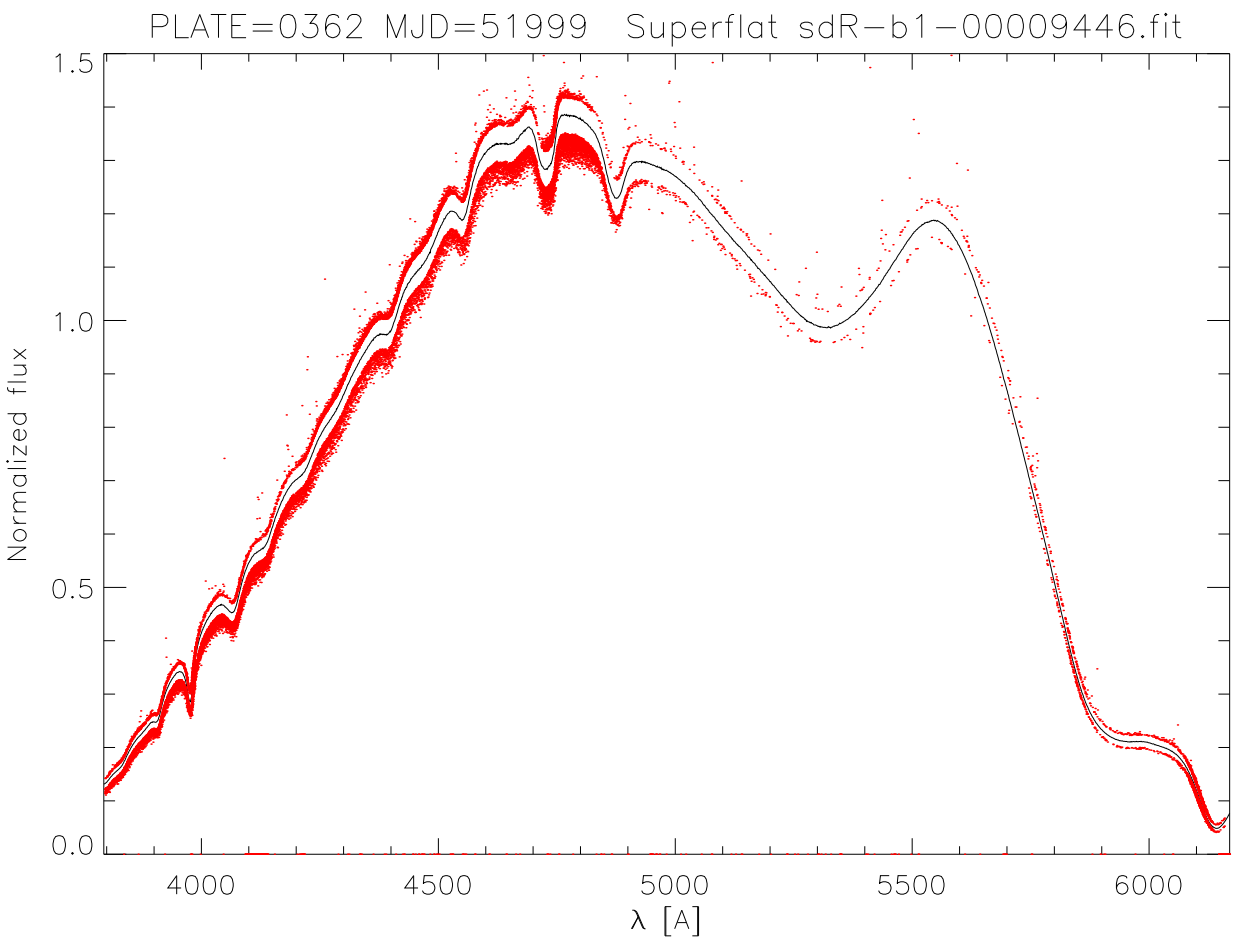

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

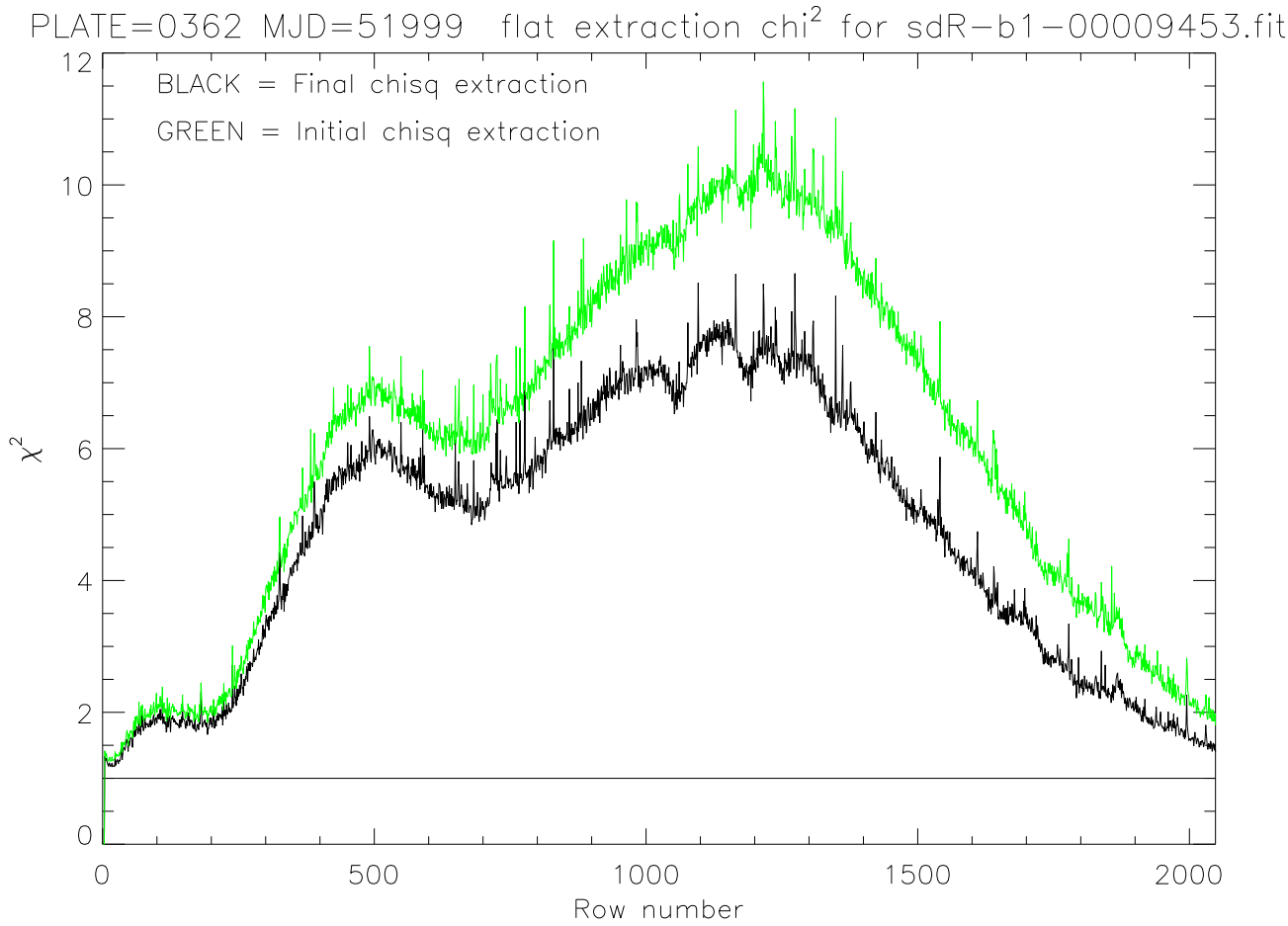

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

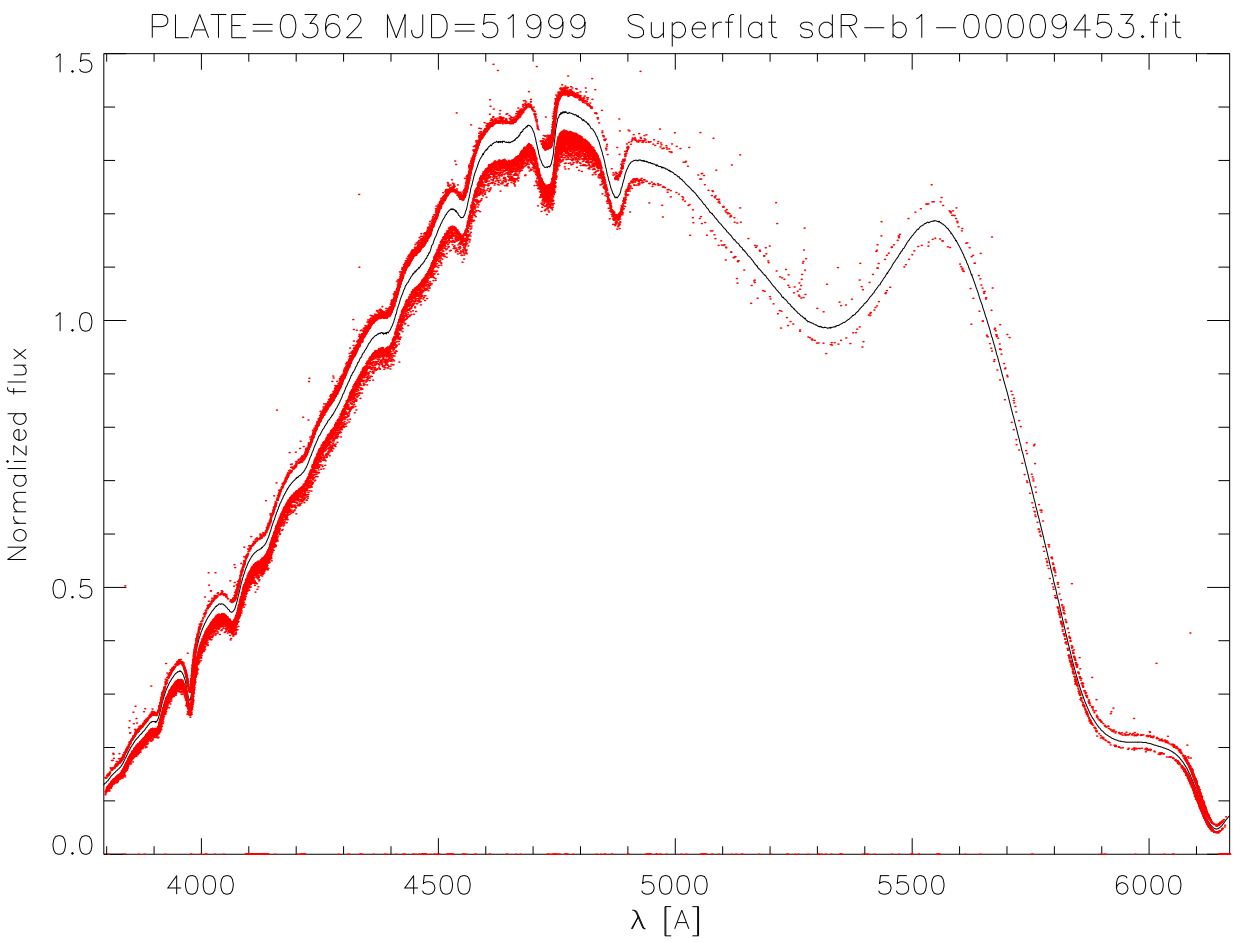

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

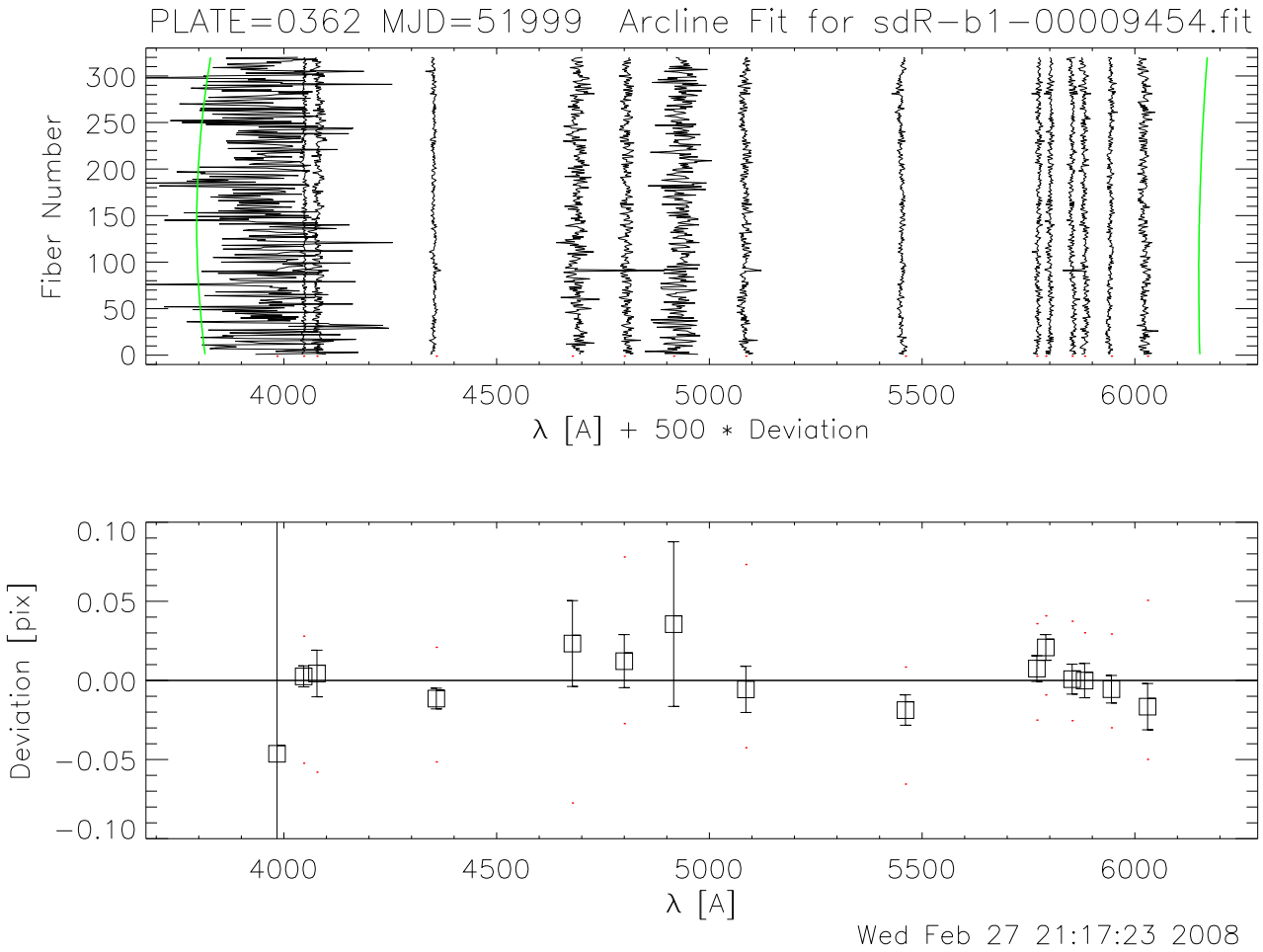

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

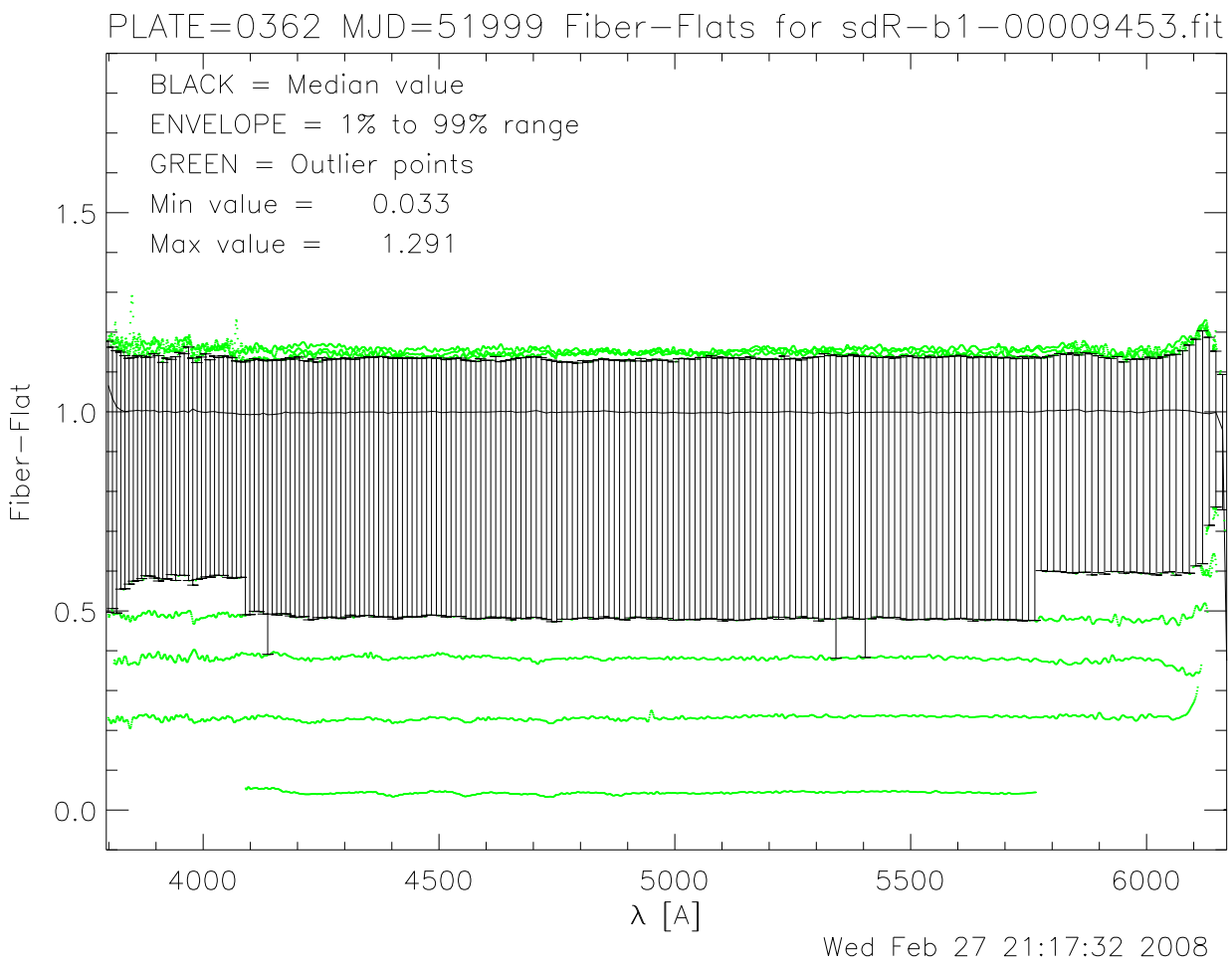

PLATE=0362 MJD=51999 flat extraction chi^2 for sdR−b1−00009446.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

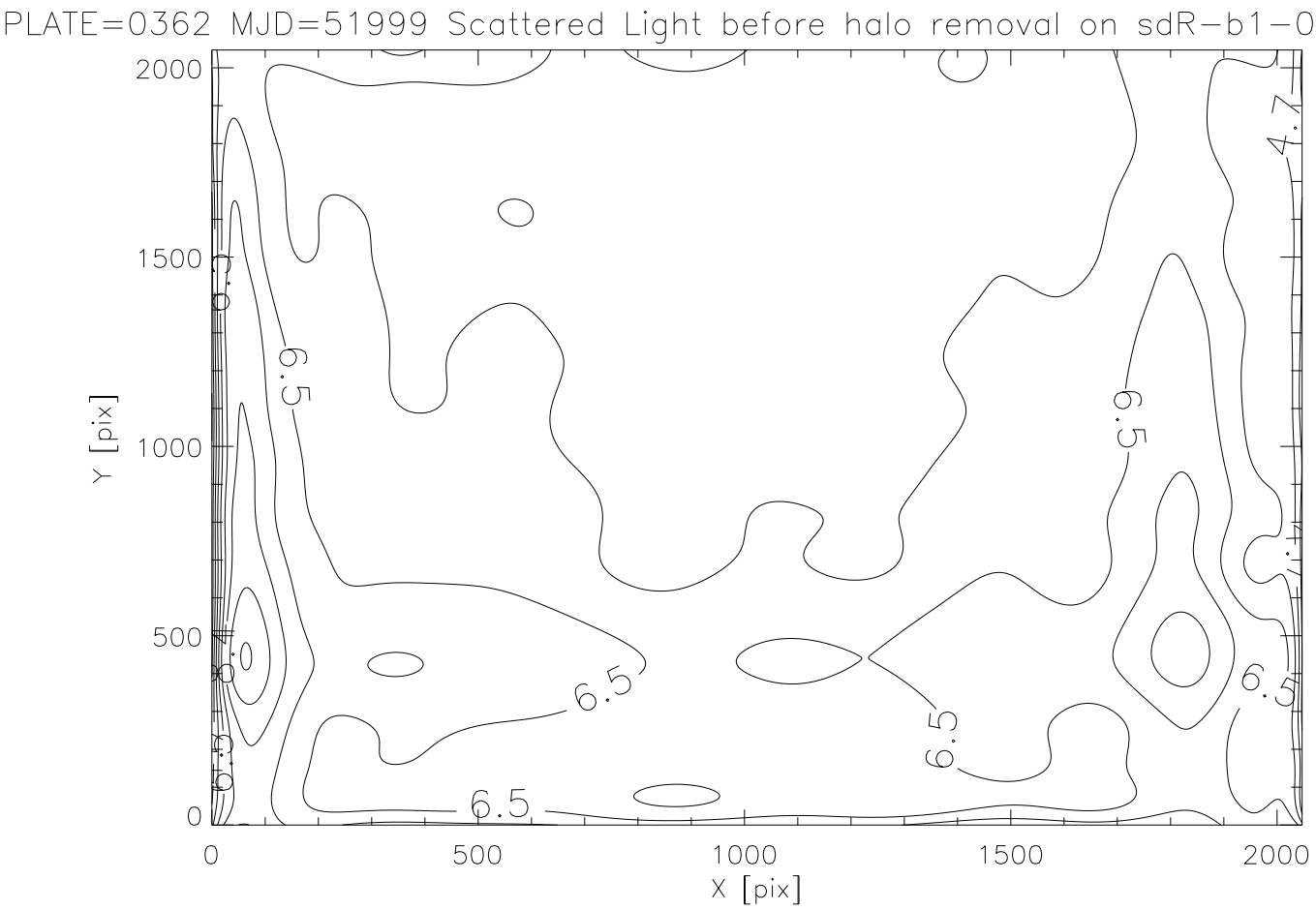

PLATE=0362 MJD=51999 Superflat sdR-b1-00009446.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

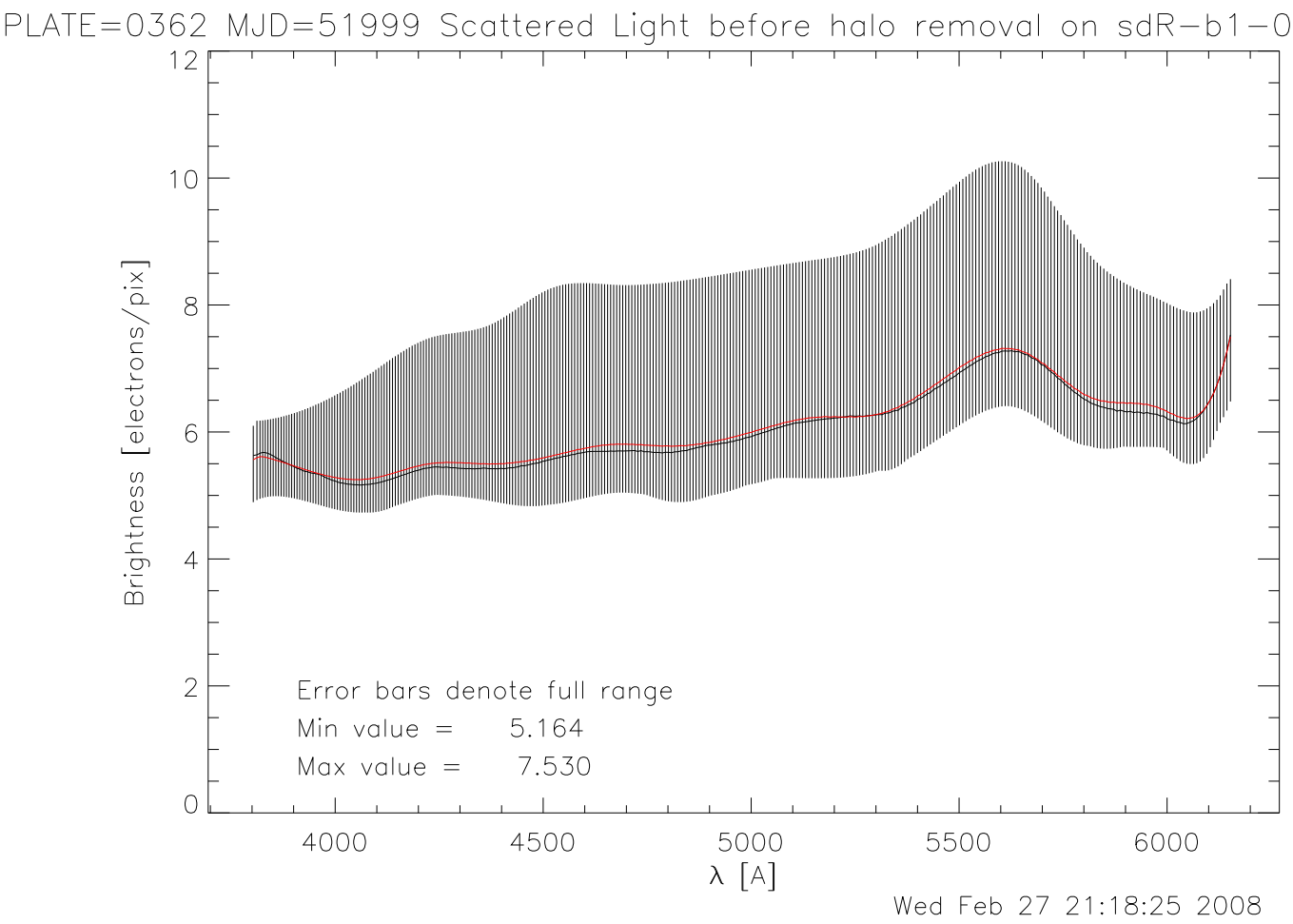

PLATE=0362 MJD=51999 flat extraction chi^2 for sdR−b1−00009453.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

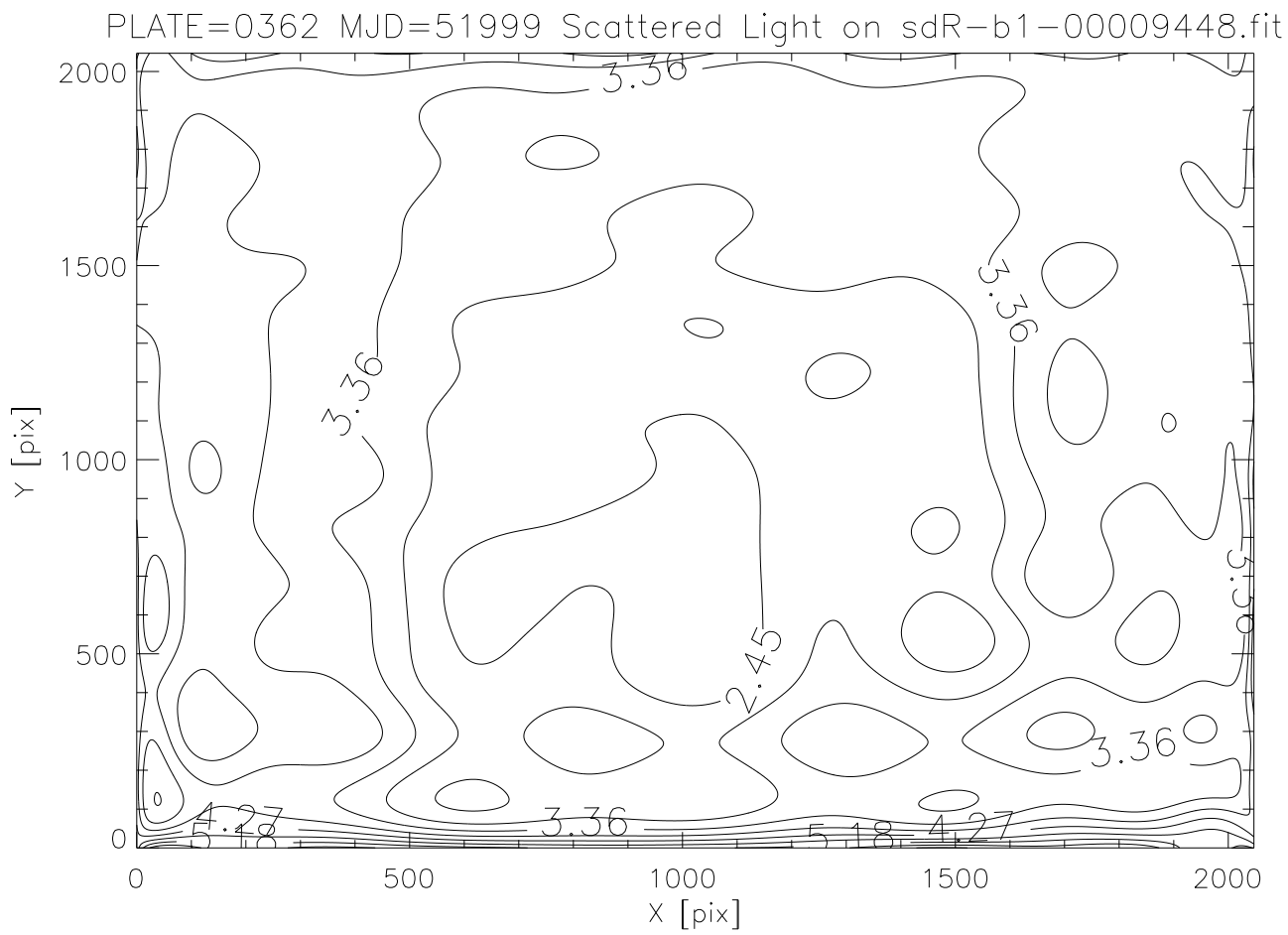

PLATE=0362 MJD=51999 Superflat sdR-b1-00009453.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

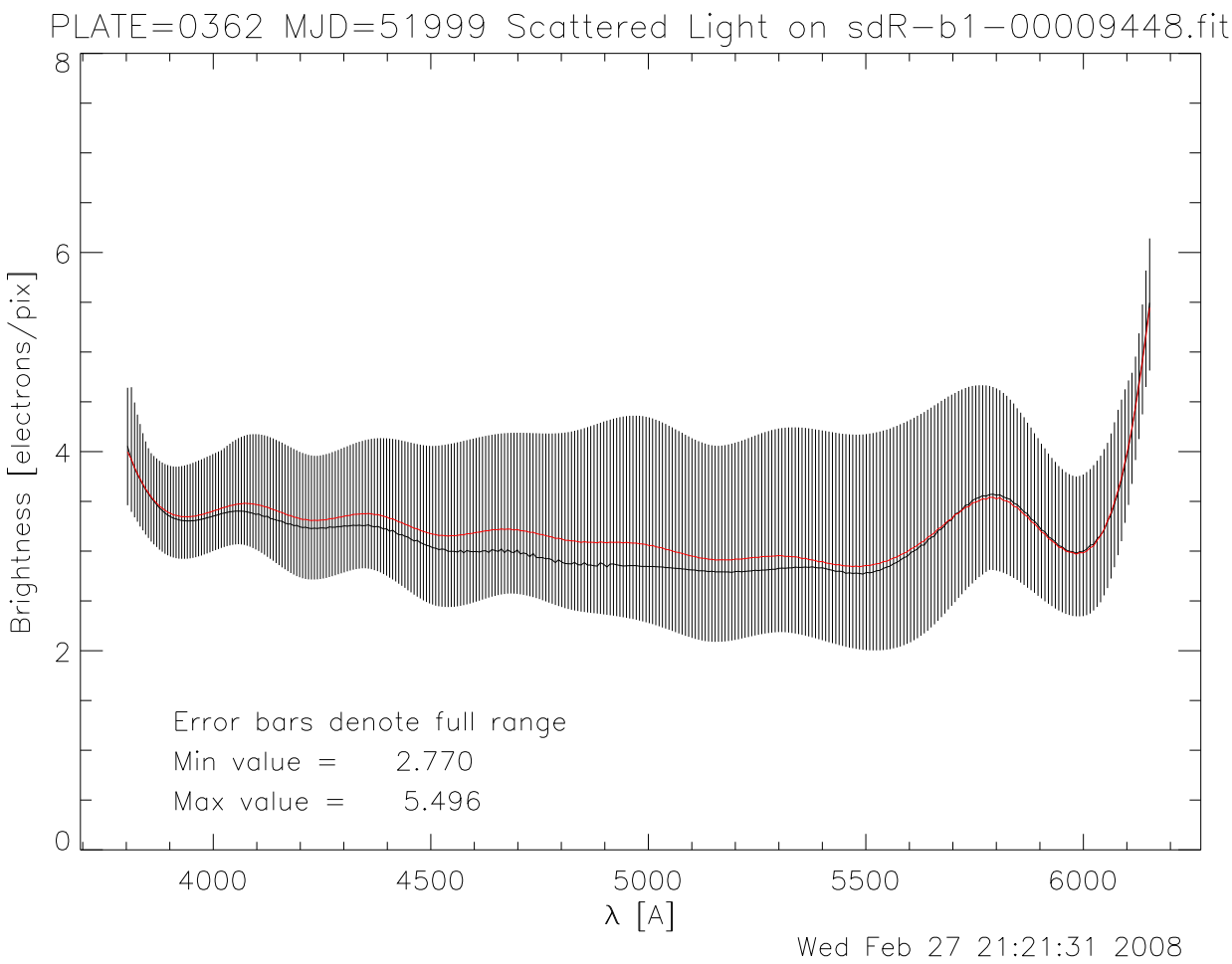

PLATE=0362 MJD=51999 Arcline Fit for sdR-b1-00009454.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:17:23 2008

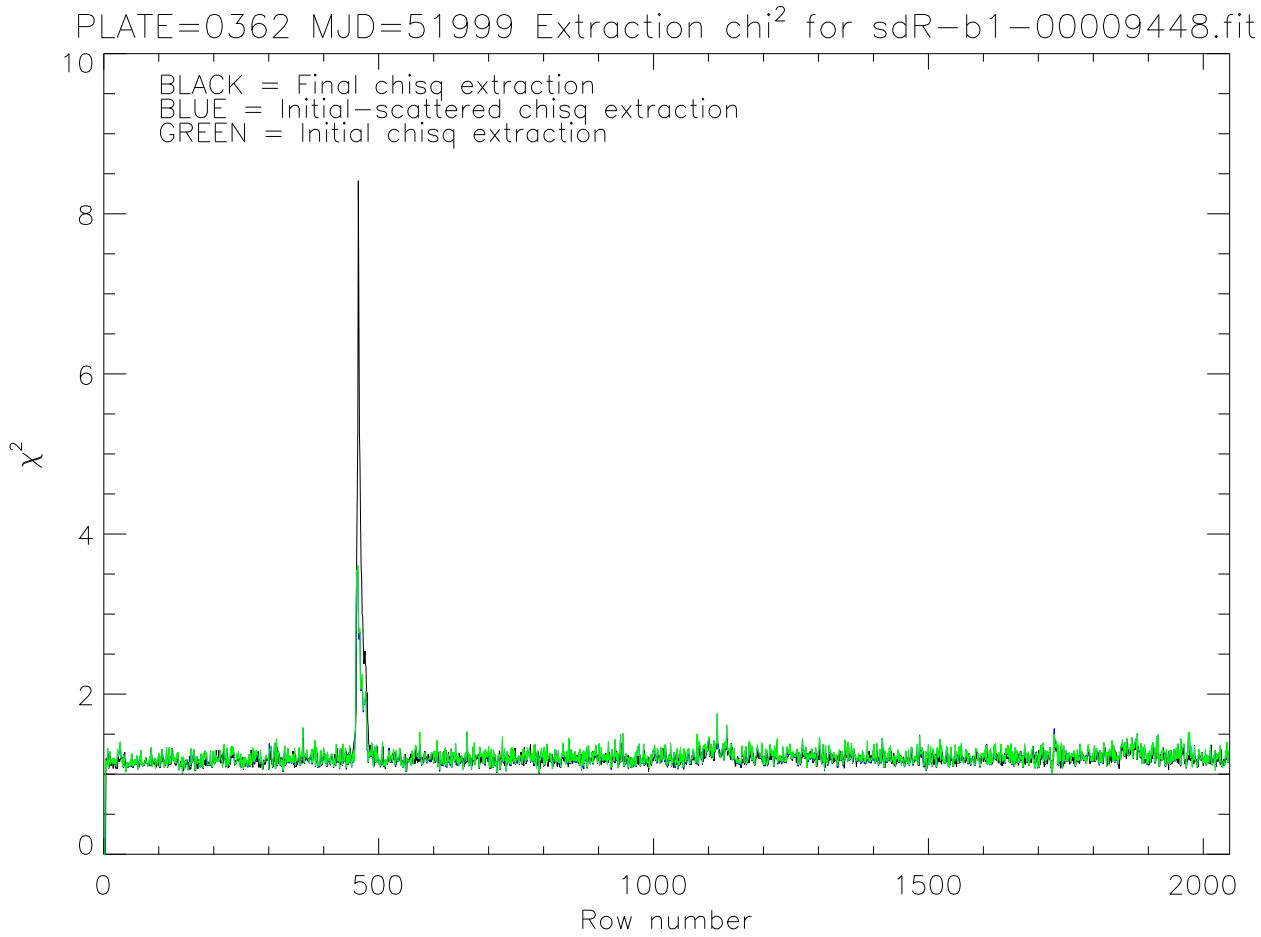

PLATE=0362 MJD=51999 Fiber−Flats for sdR−b1−00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.033
Max value = 1.291
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:17:32 2008

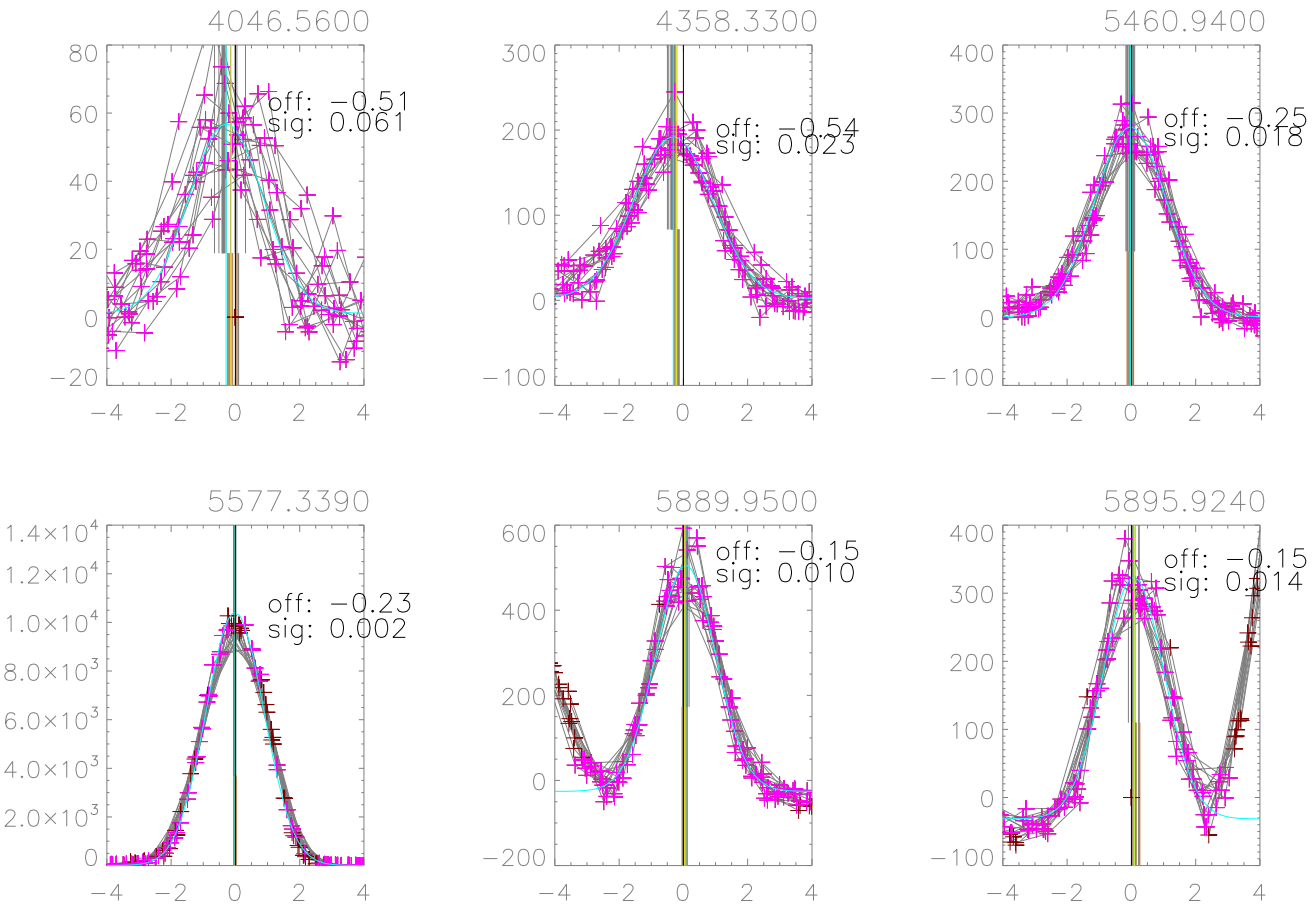

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR−b1−00009448.f
Y [pix]
X [pix]
0
500
1000
1500
2000
6.5
6.5
6.5

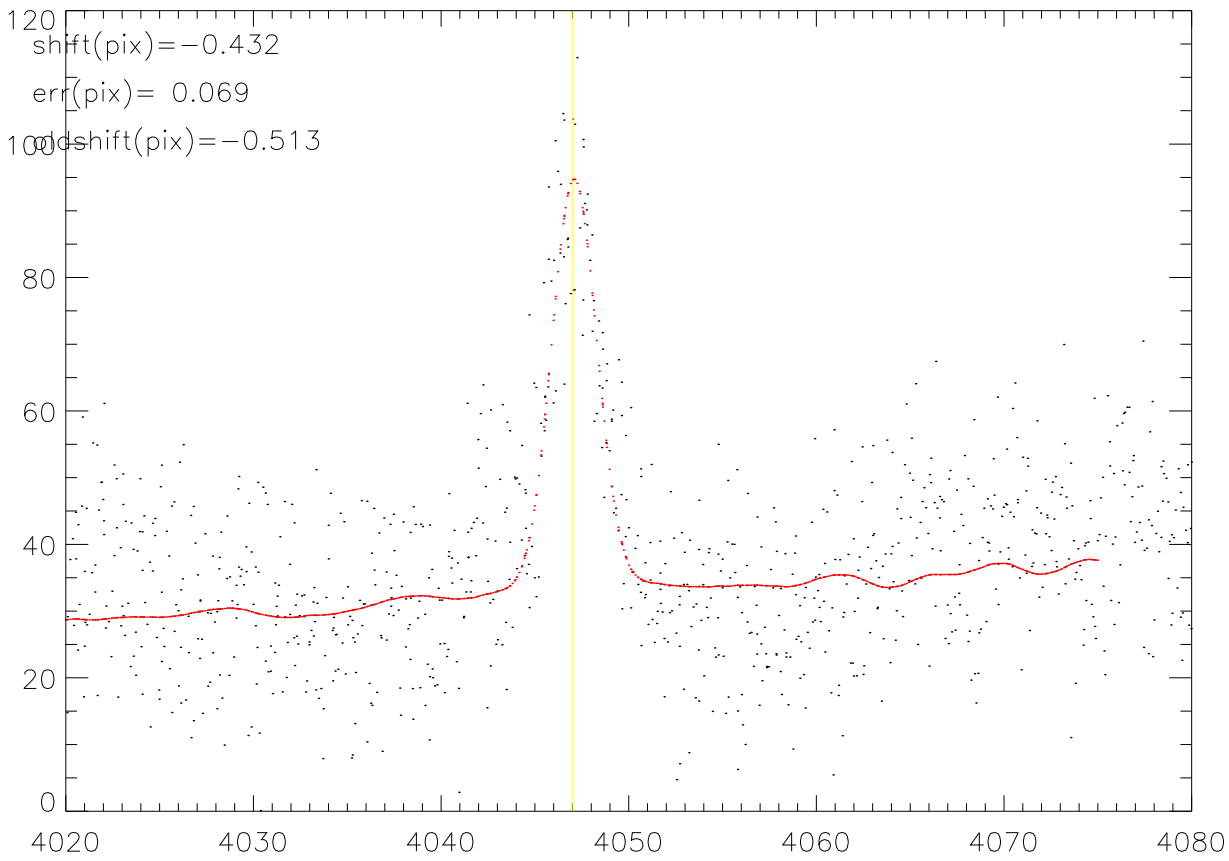

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR−b1−00009448.f
Brightness [electrons/pix]
12
10
8
6
4
2
0
Error bars denote full range
Min value = 5.164
Max value = 7.530
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:18:25 2008

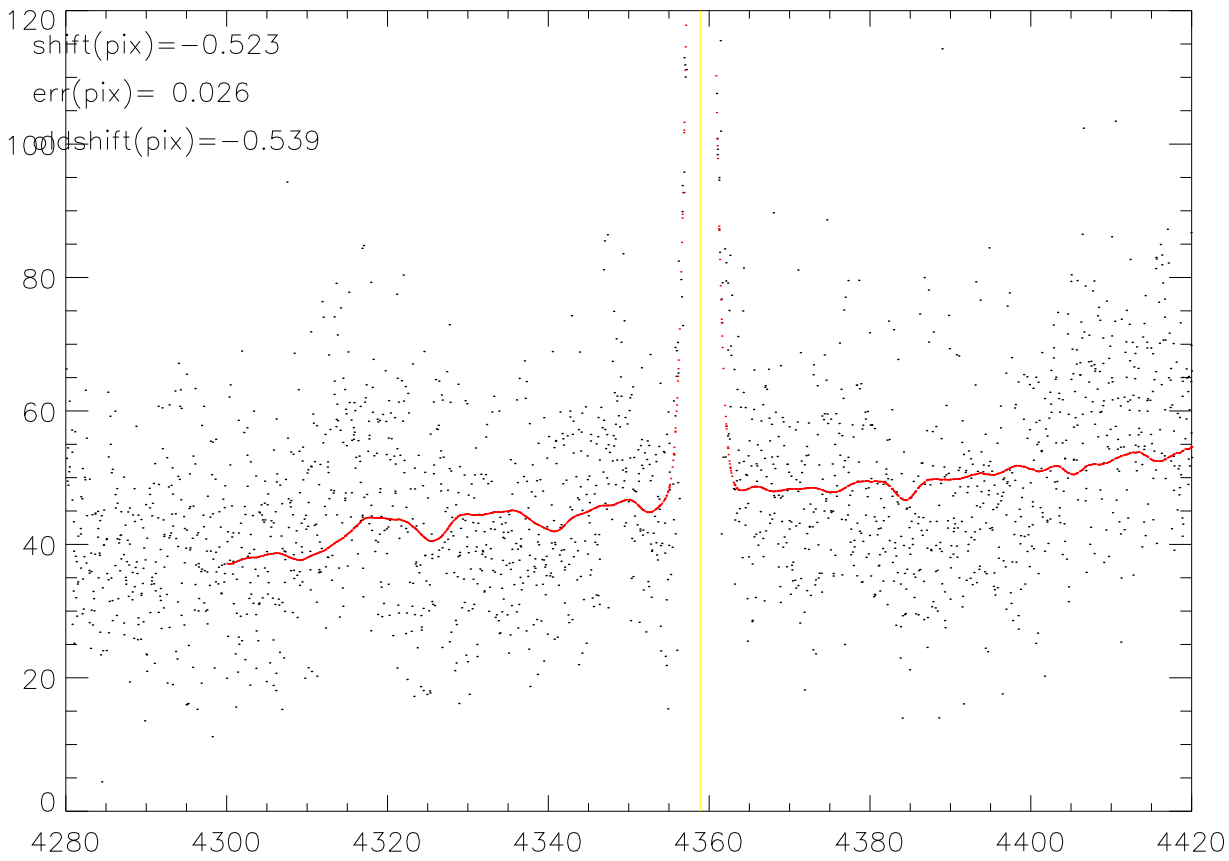

PLATE=0362 MJD=51999 Scattered Light on sdR-b1-00009448.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.36
2.45
4.27
5.18
0

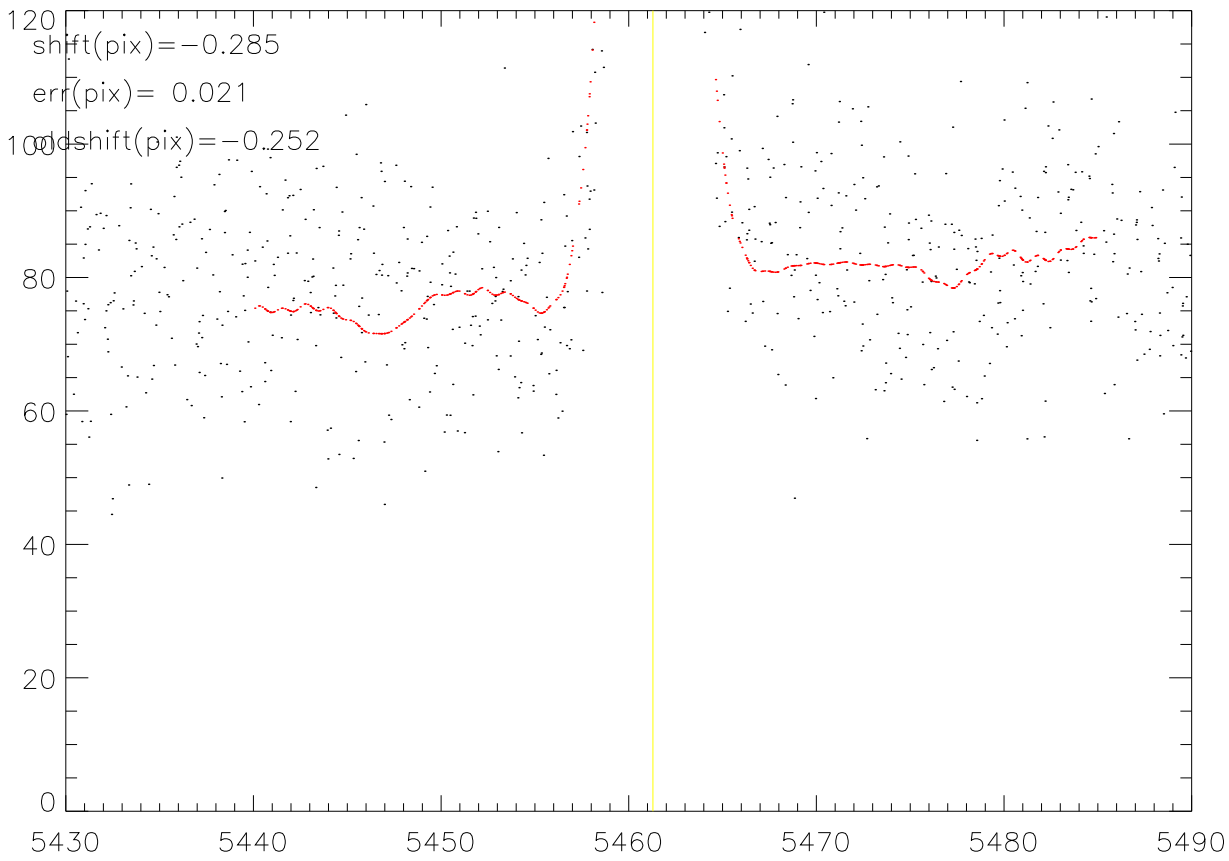

PLATE=0362 MJD=51999 Scattered Light on sdR-b1-00009448.fit
Brightness [electrons/pix]
0
2
4
6
8
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 2.770
Max value = 5.496
Wed Feb 27 21:21:31 2008

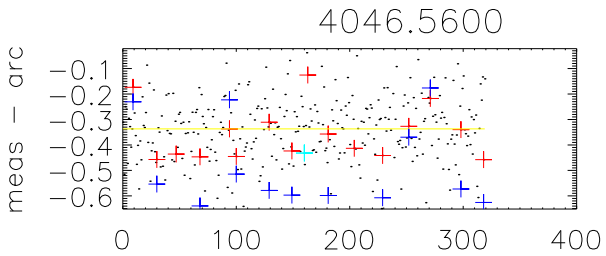

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-b1-00009448.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
0
500
1000
1500
2000
Row number

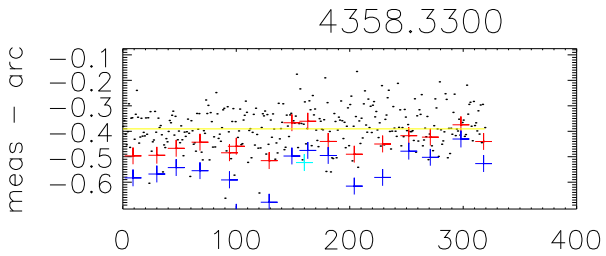

4046.5600
off: −0.51
sig: 0.061
4358.3300
off: −0.54
sig: 0.023
5460.9400
off: −0.25
sig: 0.018
5577.3390
off: −0.23
sig: 0.002
5889.9500
off: −0.15
sig: 0.010
5895.9240
off: −0.15
sig: 0.014

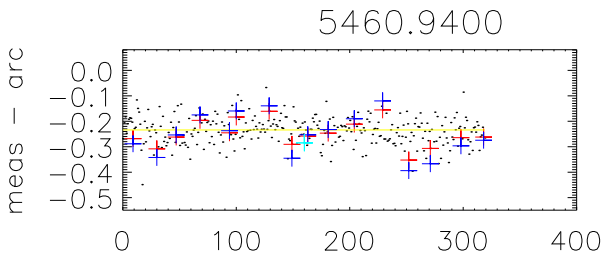

shift(pix)=−0.432
err(pix)= 0.069
oldshift(pix)=−0.513
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

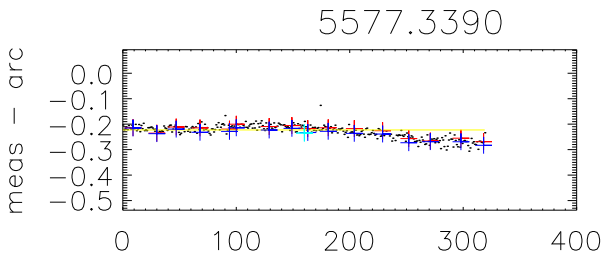

shift(pix)=−0.523
err(pix)= 0.026
oldshift(pix)=−0.539
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

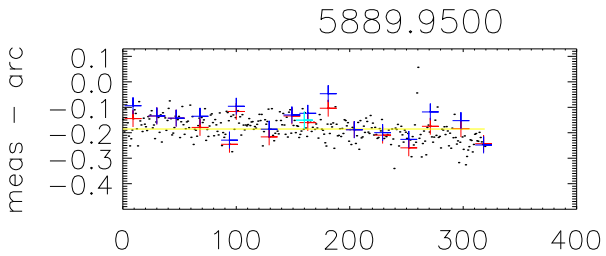

shift(pix)=−0.285
err(pix)= 0.021
oldshift(pix)=−0.252
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

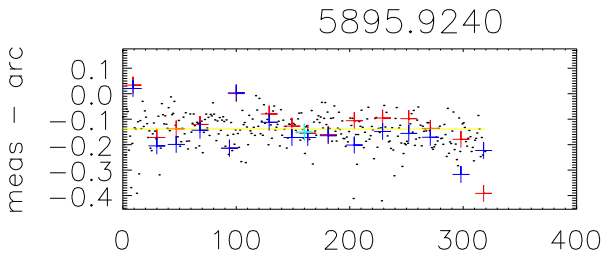

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

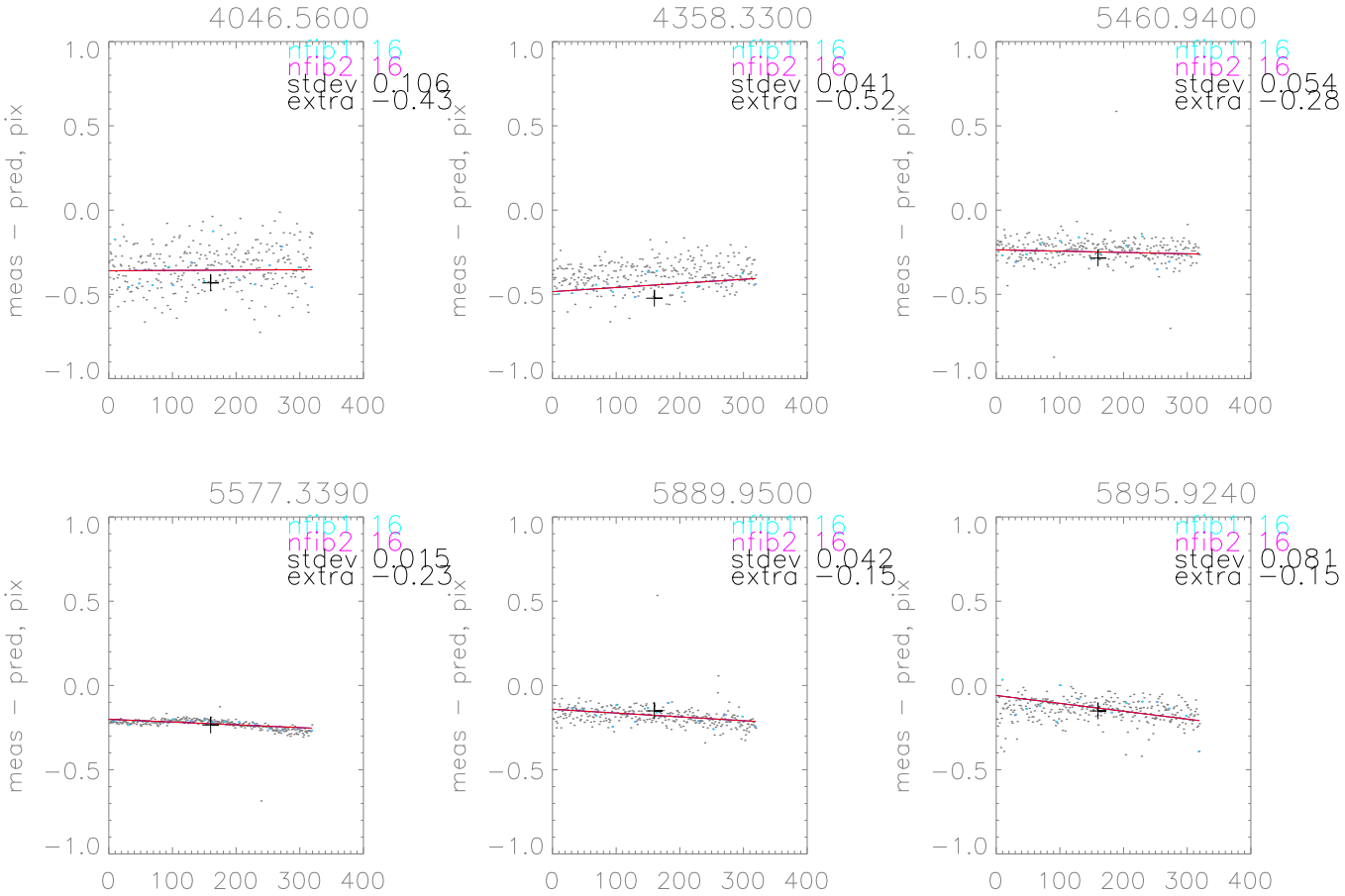

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

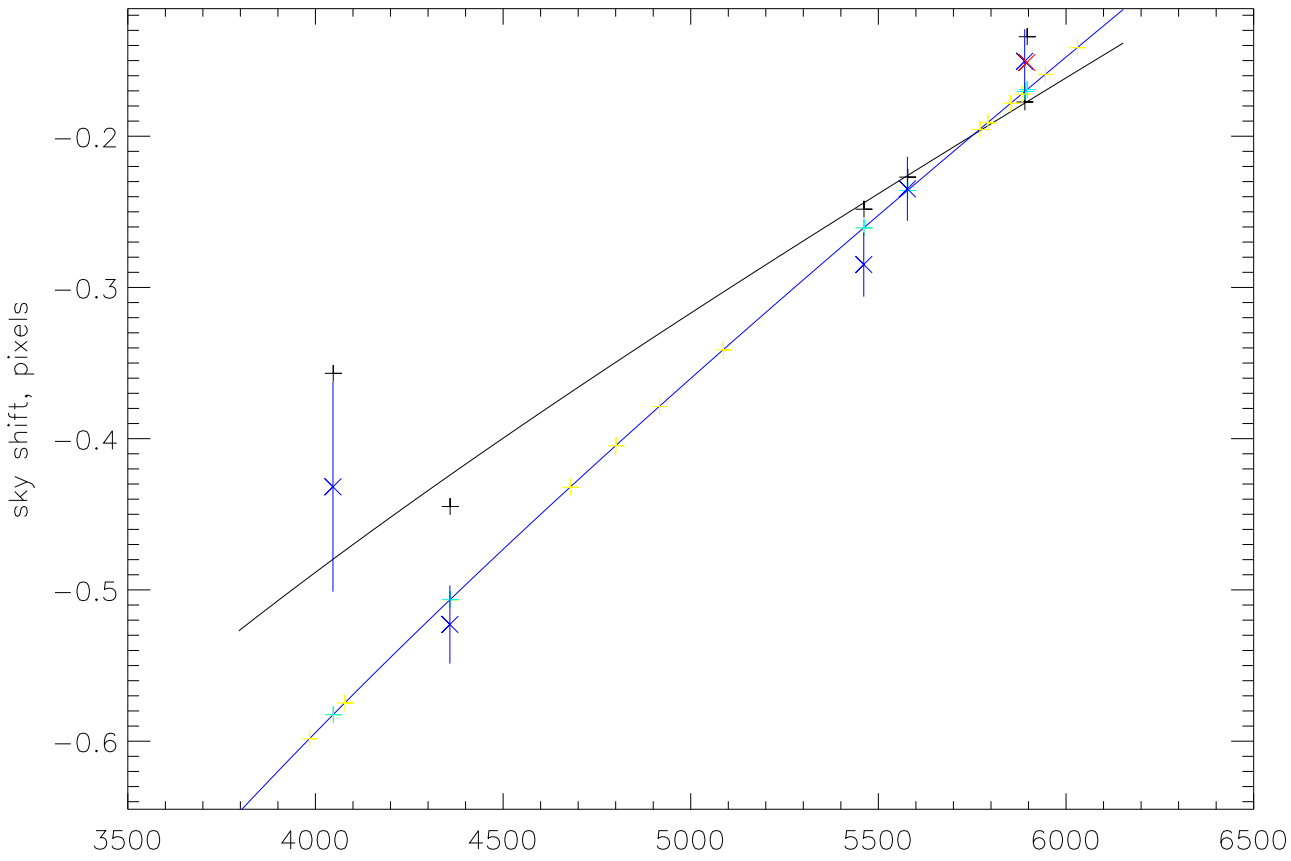

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

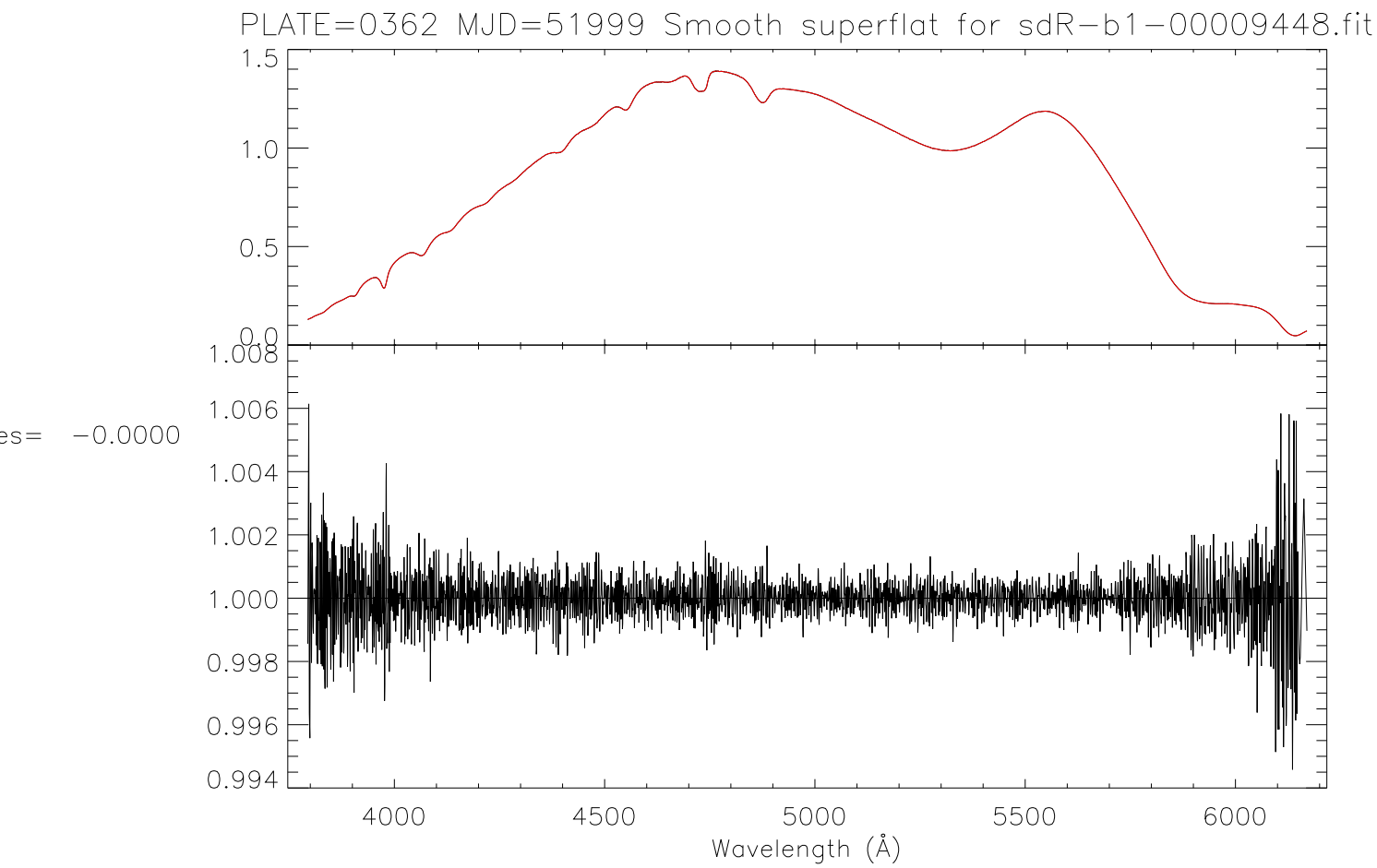

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

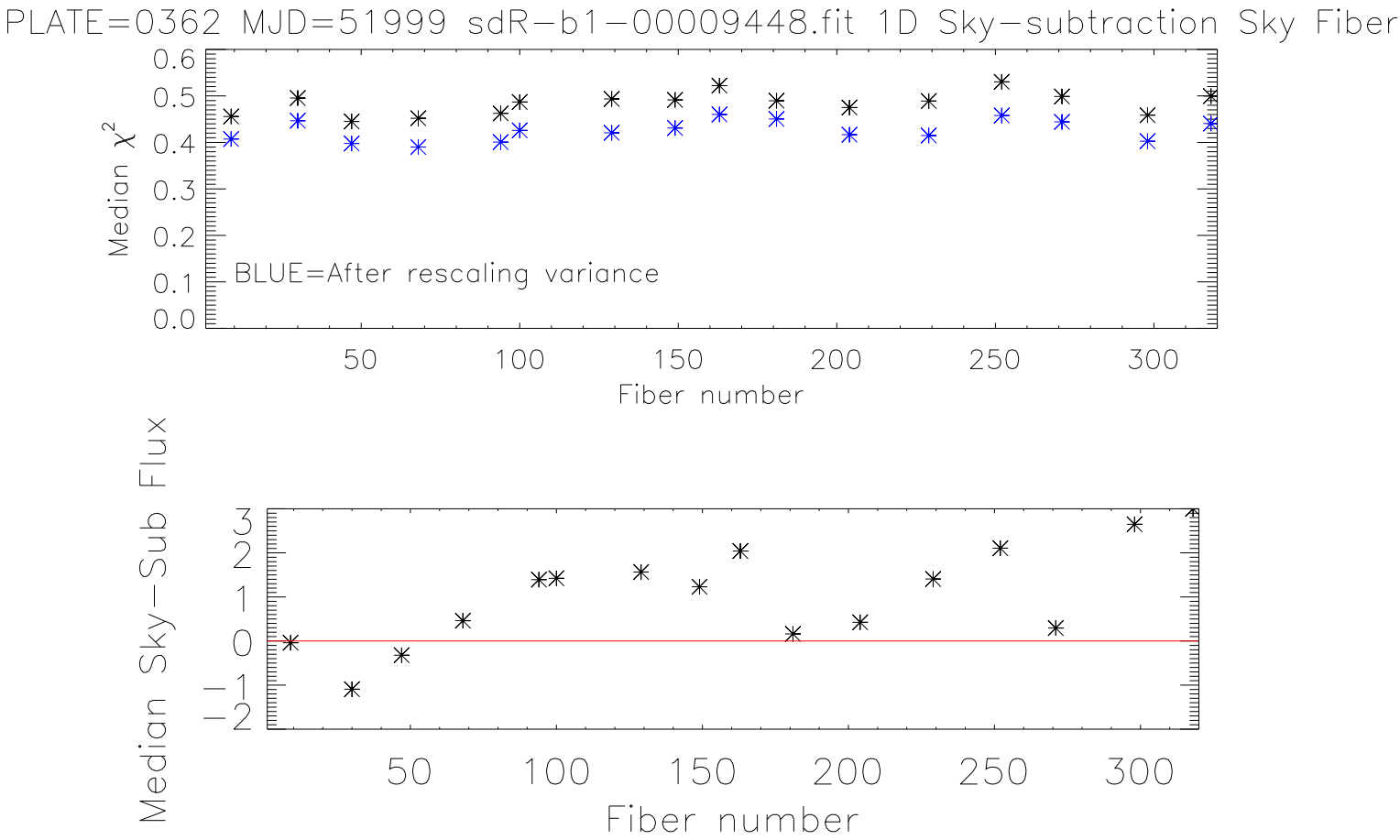

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

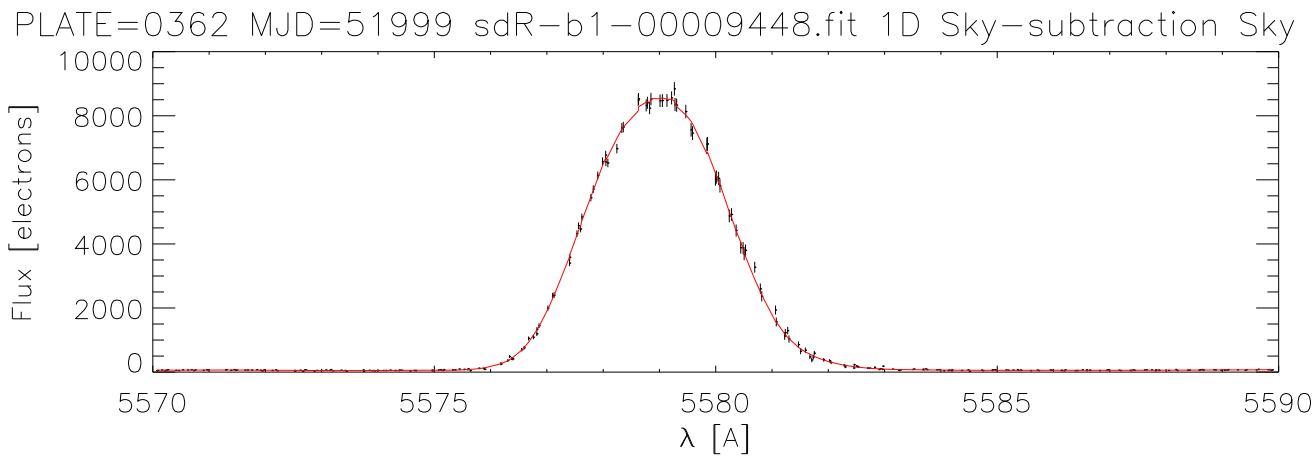

4046.5600
nfib1 16
nfib2 16
stdev 0.106
extra −0.43
4358.3300
nfib1 16
nfib2 16
stdev 0.041
extra −0.52
5460.9400
nfib1 16
nfib2 16
stdev 0.054
extra −0.28
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra −0.23
5889.9500
nfib1 16
nfib2 16
stdev 0.042
extra −0.15
5895.9240
nfib1 16
nfib2 16
stdev 0.081
extra −0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

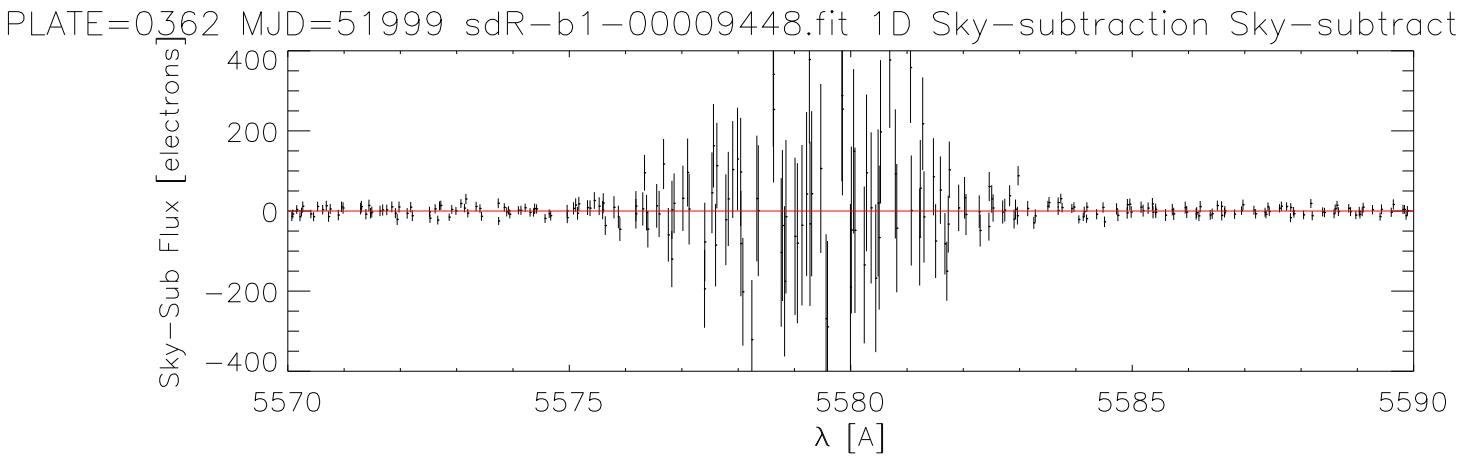

sky shift, pixels
−0.2
−0.3
−0.4
−0.5
−0.6
3500
4000
4500
5000
5500
6000
6500

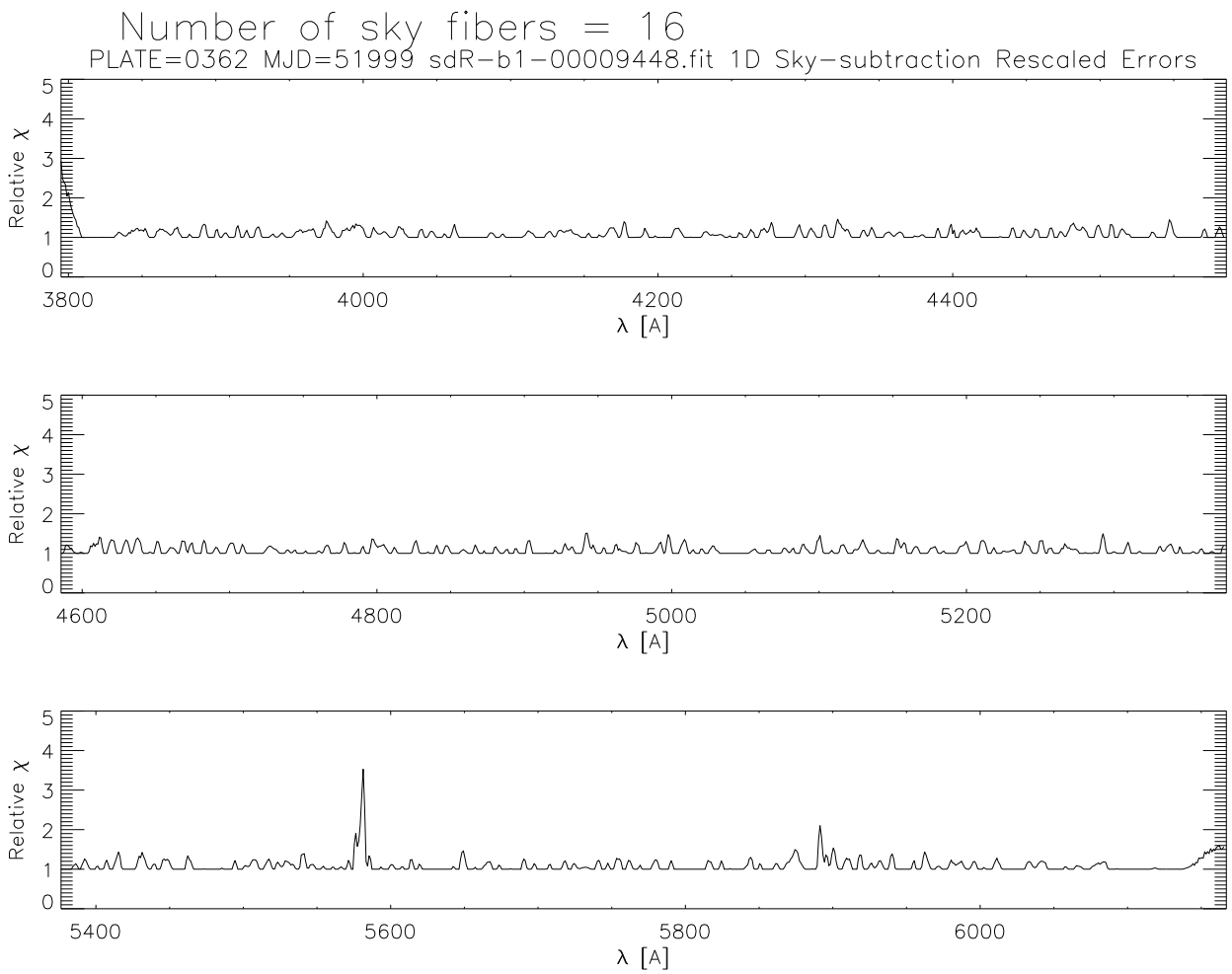

PLATE=0362 MJD=51999 Smooth superflat for sdR-b1-00009448.fit
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

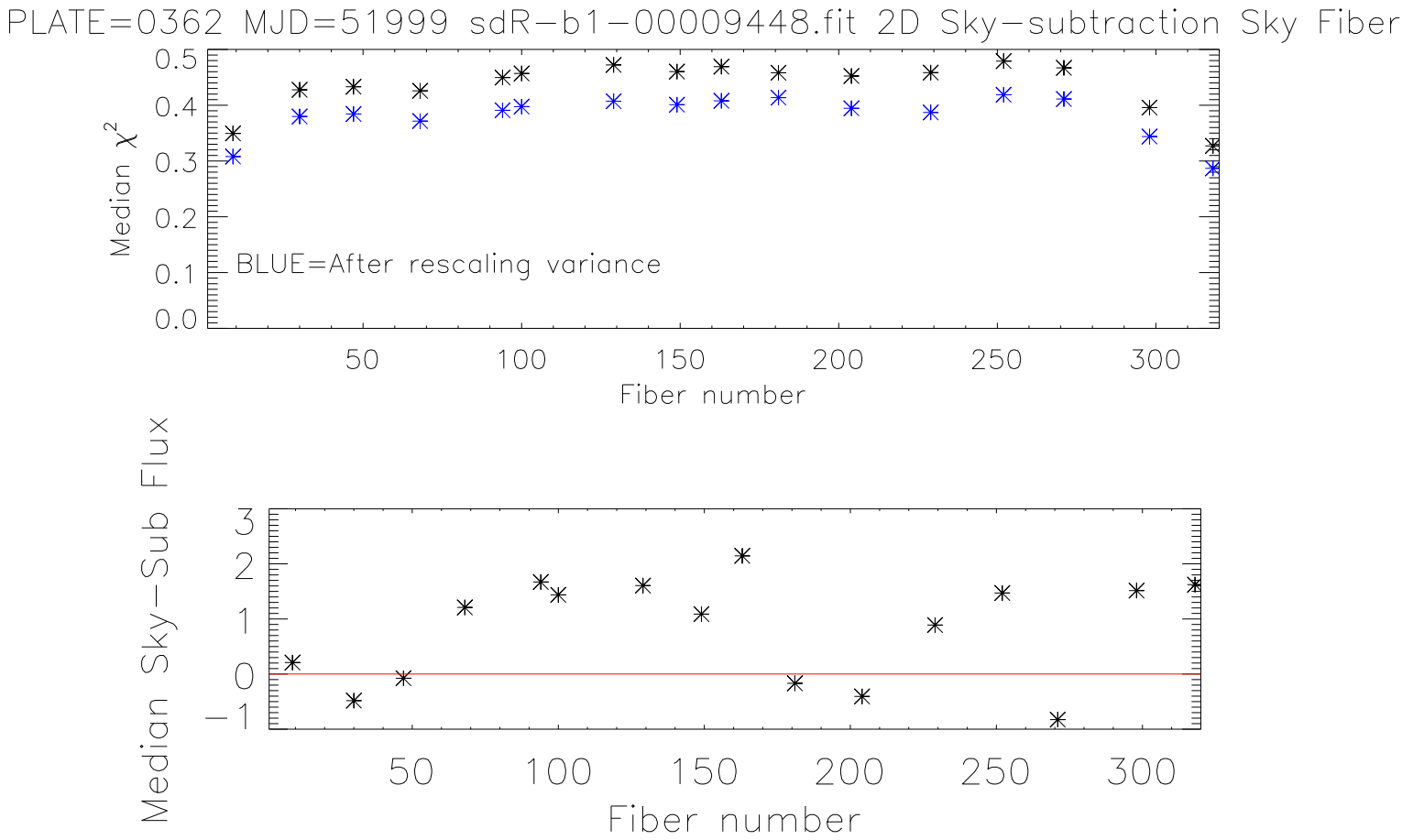
es= −0.0000

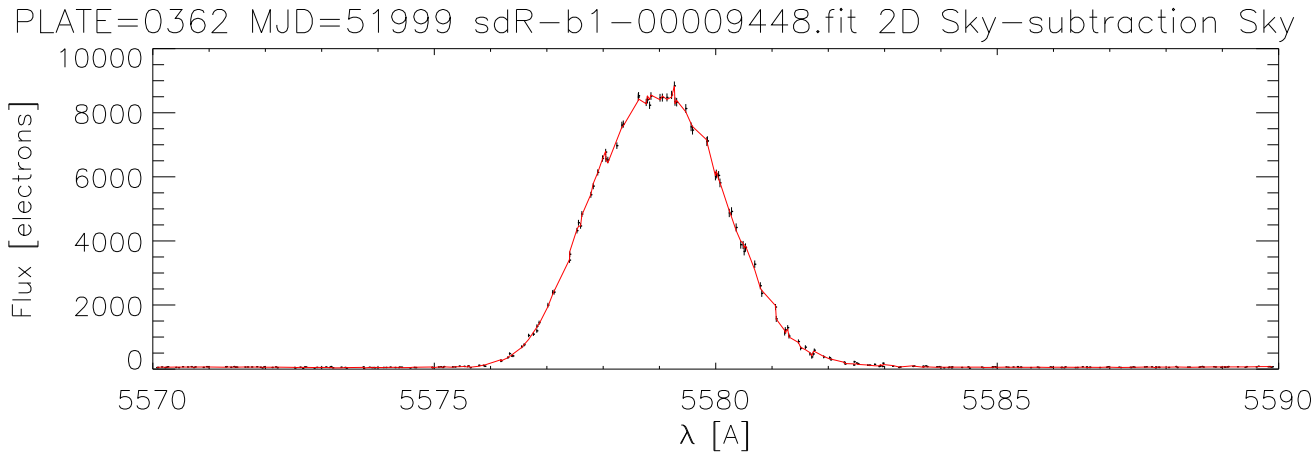

PLATE=0362 MJD=51999 sdR-b1-00009448.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

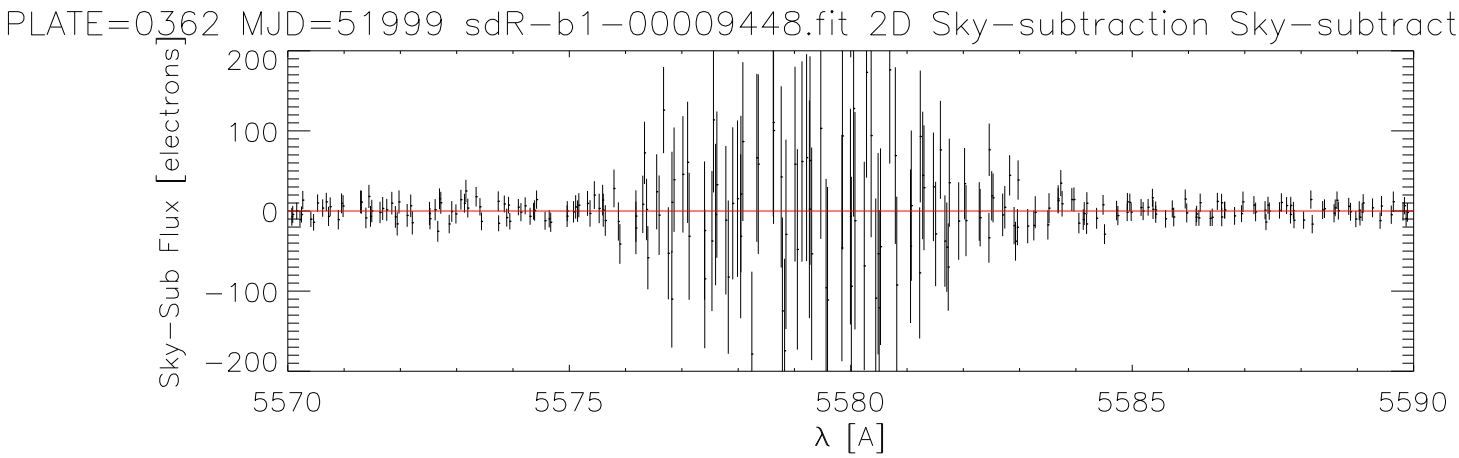

PLATE=0362 MJD=51999 sdR-b1-00009448.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

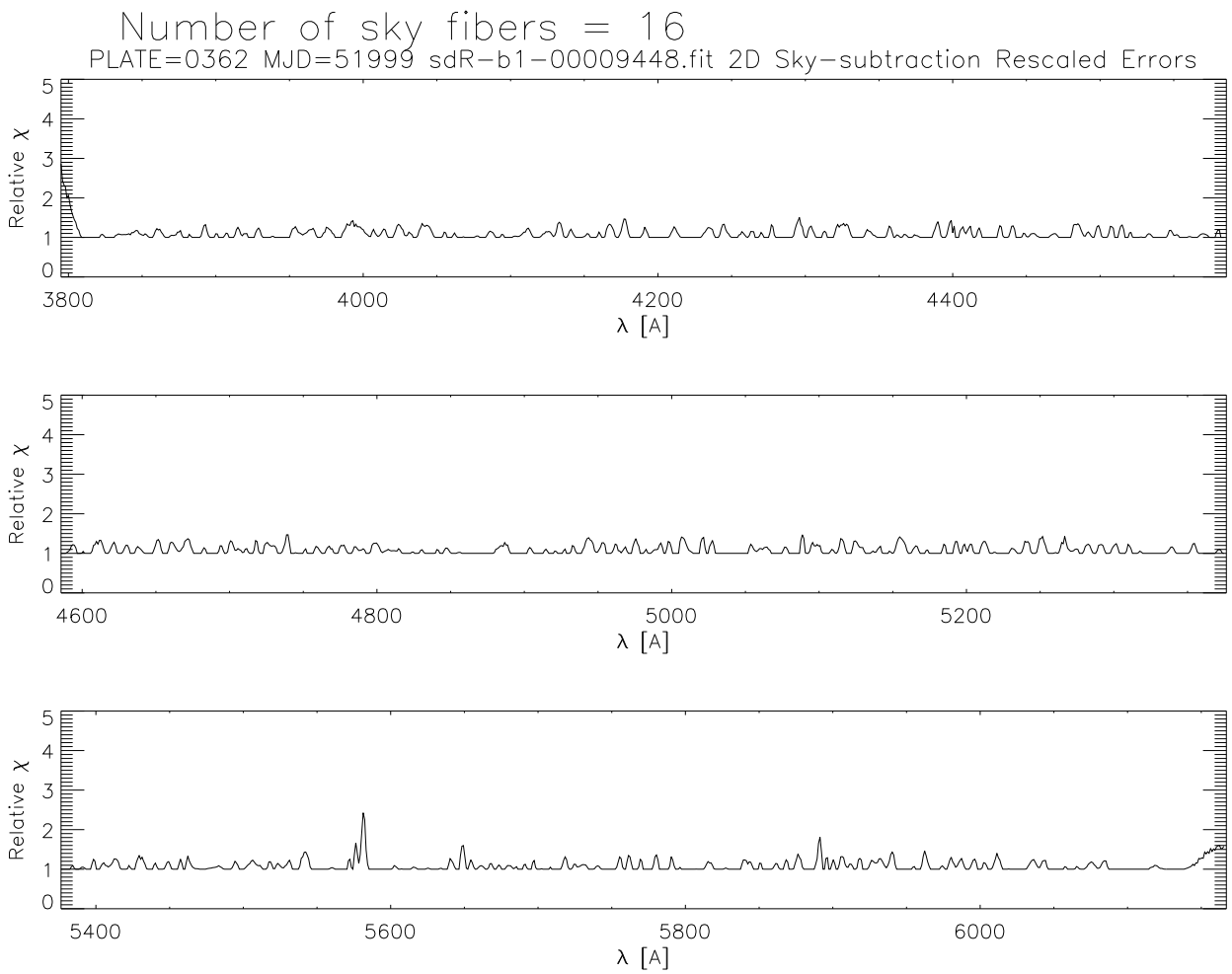

PLATE=0362 MJD=51999 sdR-b1-00009448.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

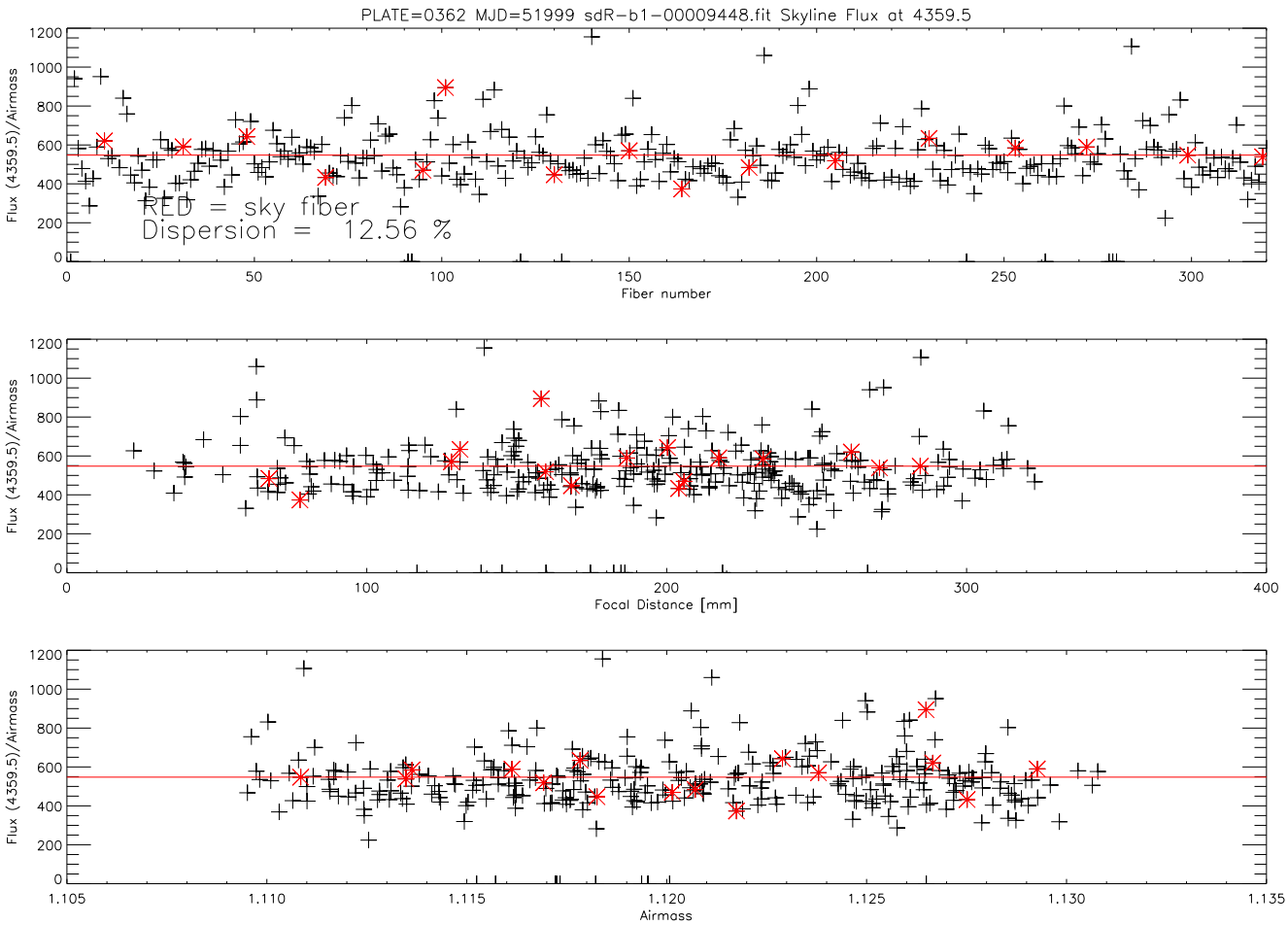

Number of sky fibers = 16
PLATE=0362 MJD=51999 sdR-b1-00009448.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

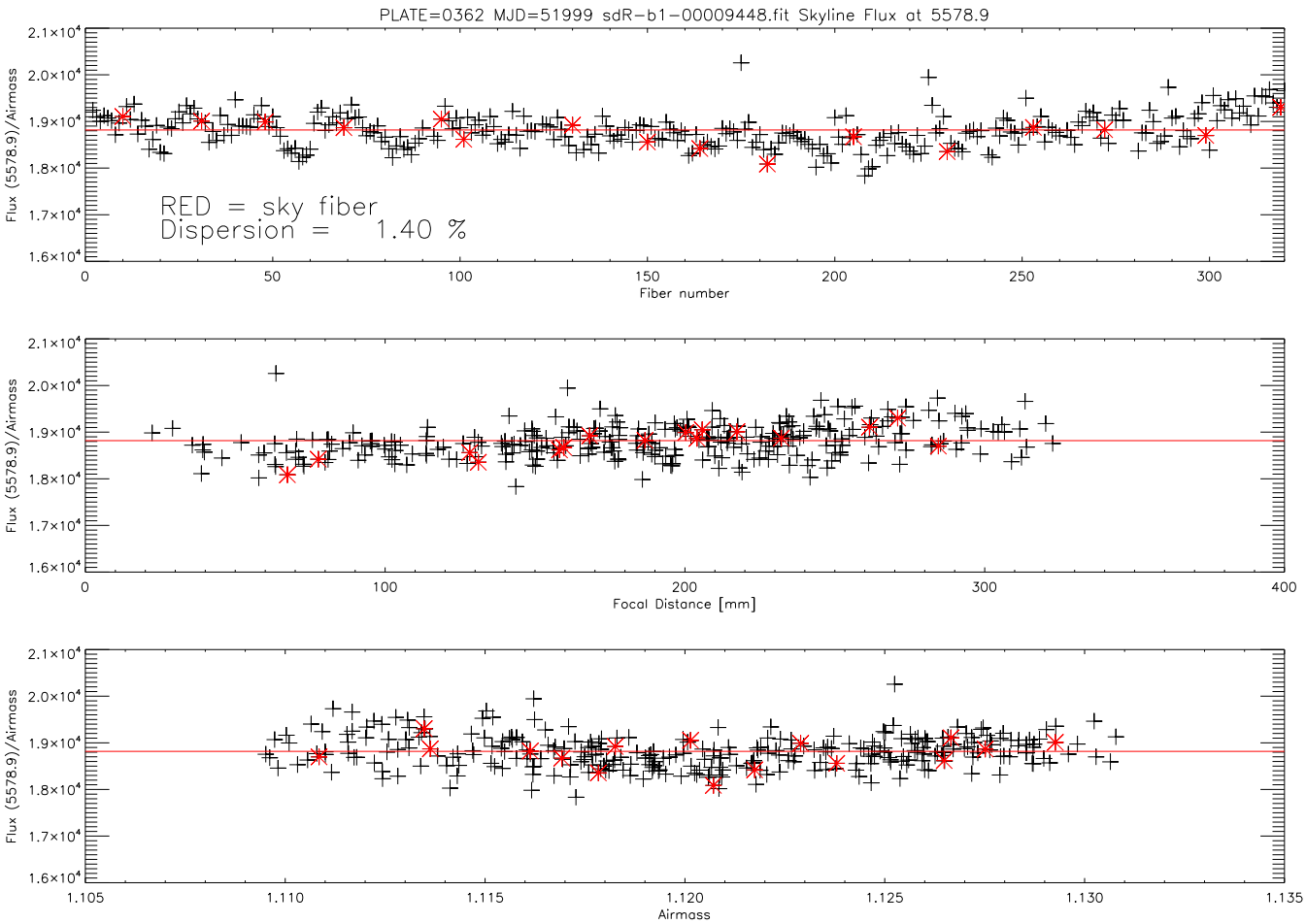

PLATE=0362 MJD=51999 sdR-b1-00009448.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

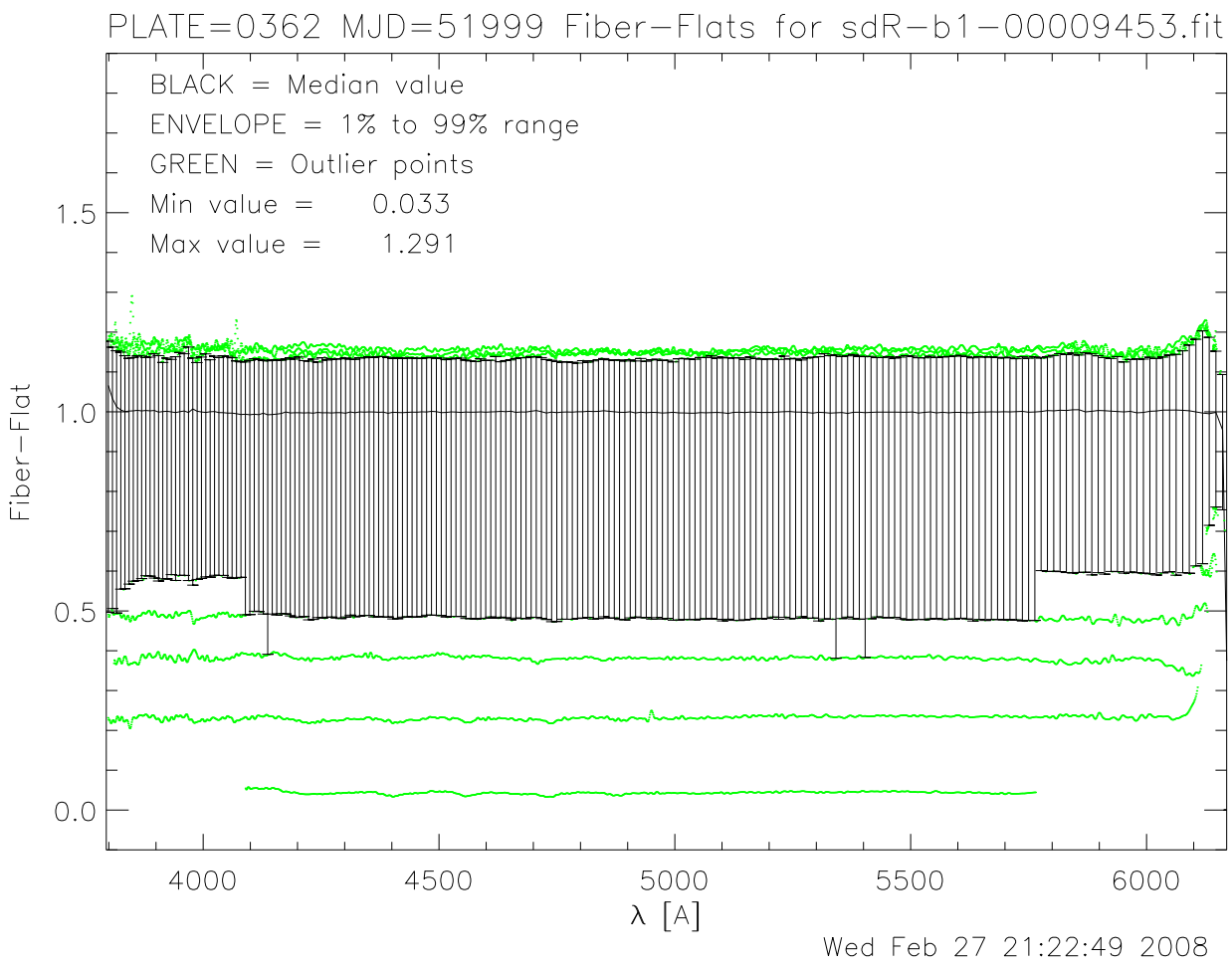

PLATE=0362 MJD=51999 sdR-b1-00009448.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

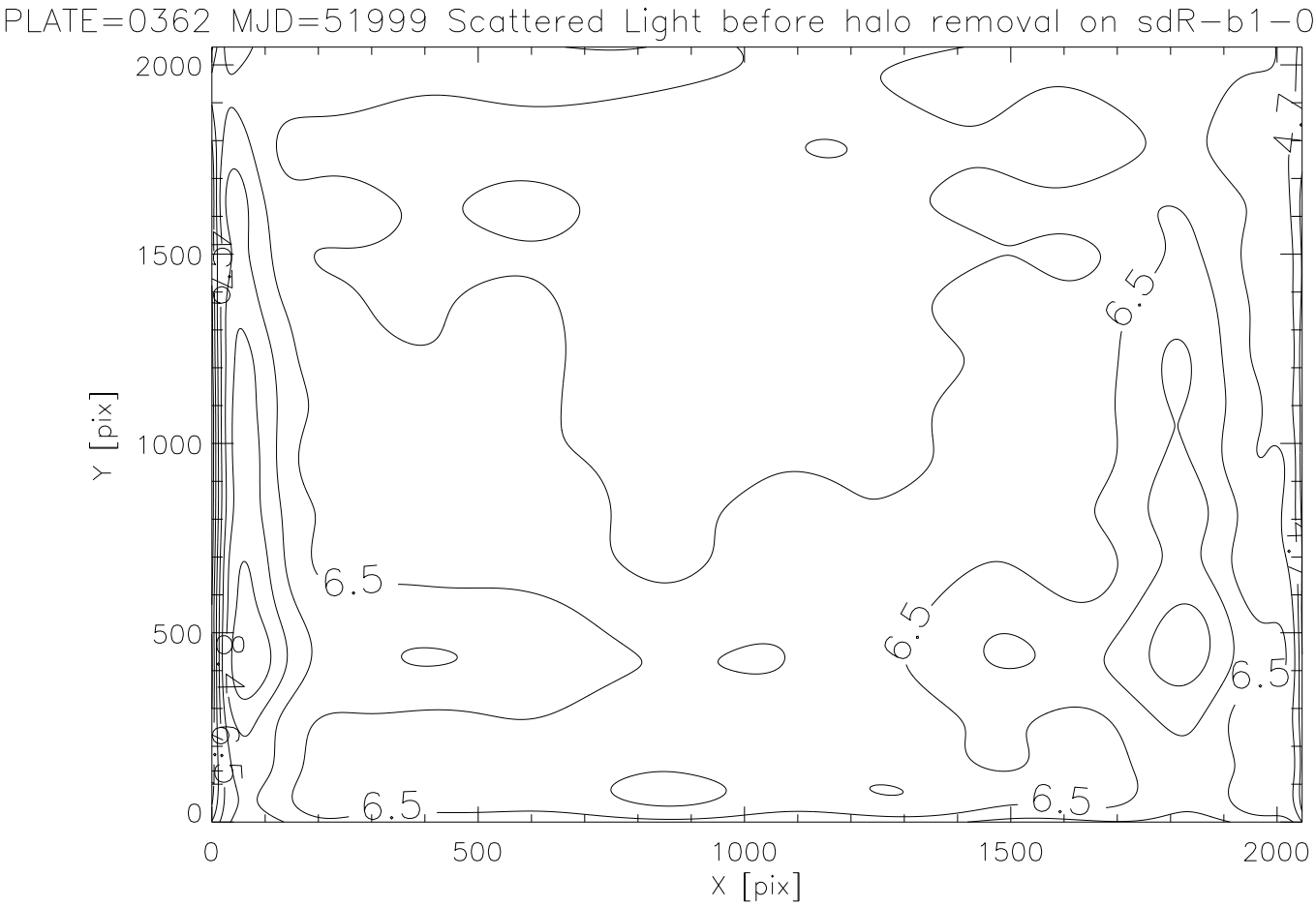

PLATE=0362 MJD=51999 sdR-b1-00009448.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

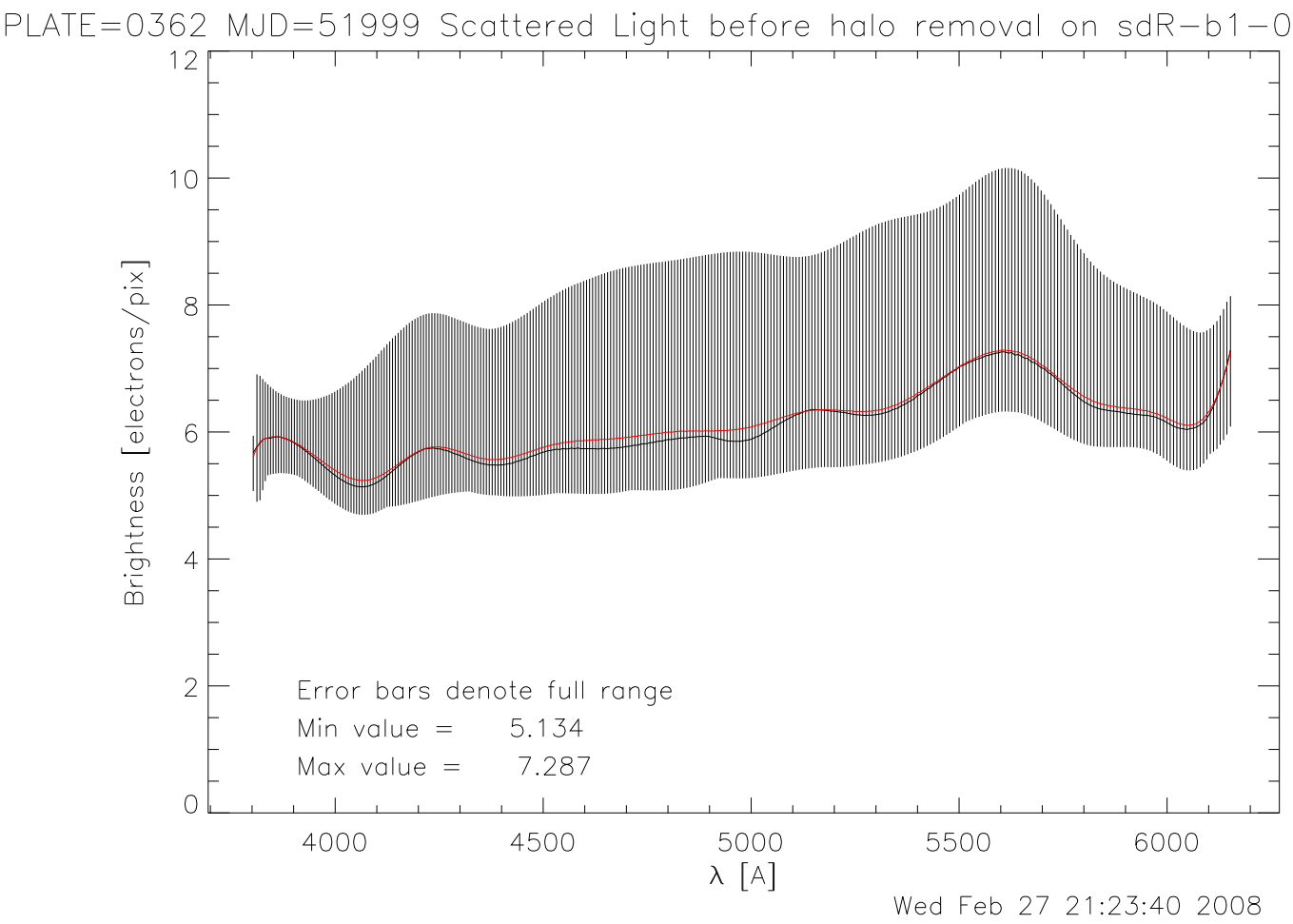

Number of sky fibers = 16
PLATE=0362 MJD=51999 sdR-b1-00009448.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

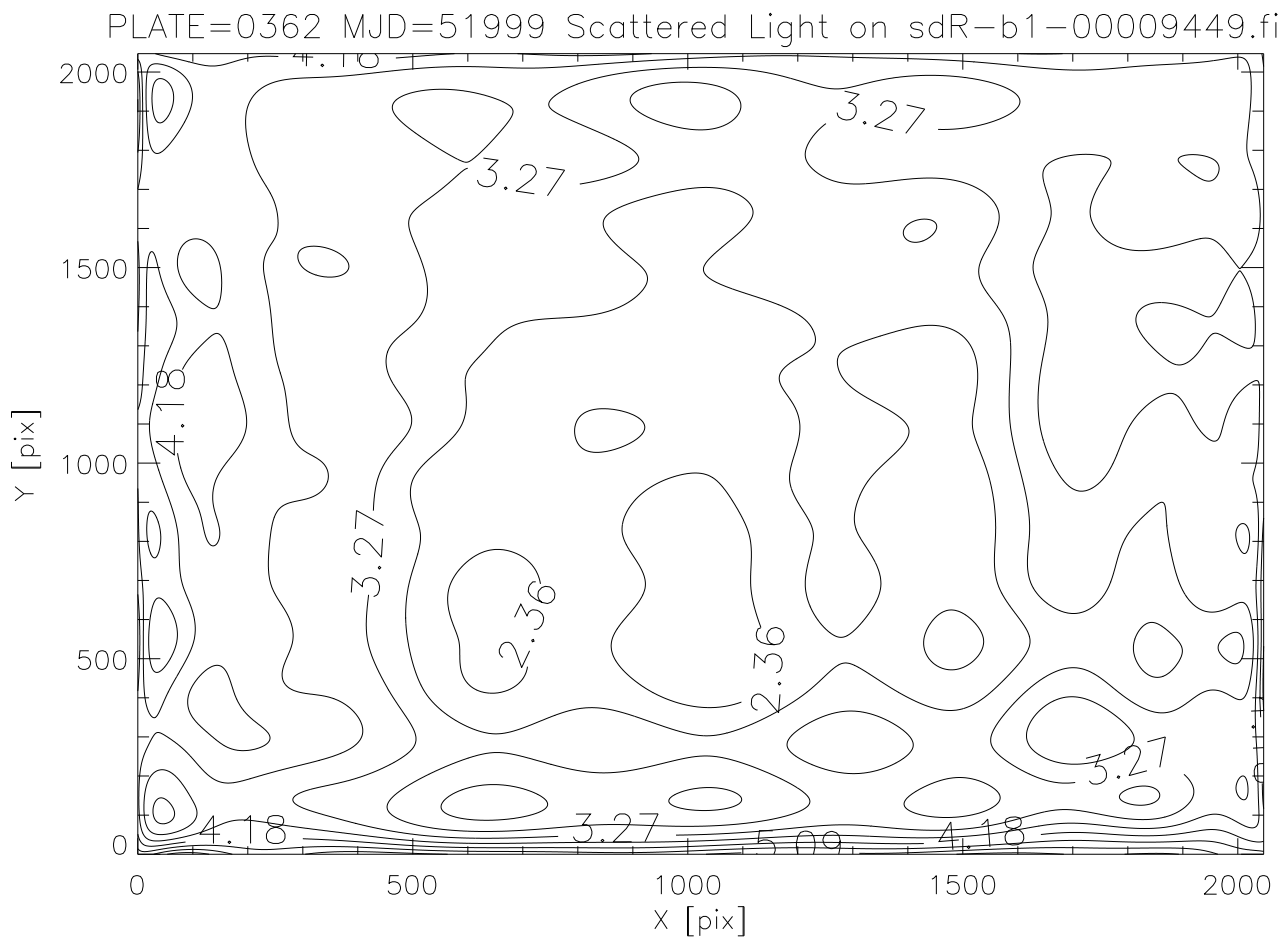

PLATE=0362 MJD=51999 sdR-b1-00009448.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.56 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

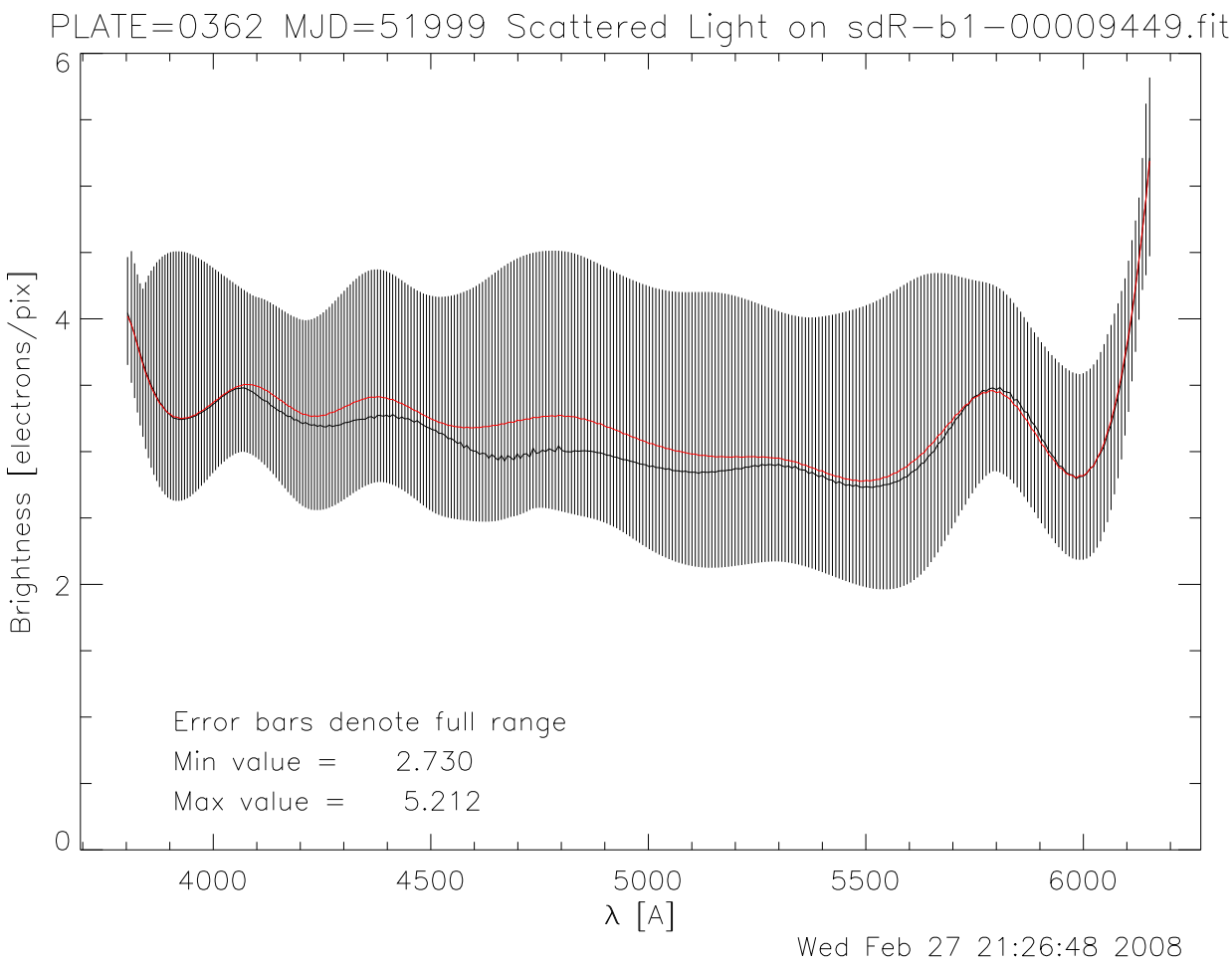

PLATE=0362 MJD=51999 sdR-b1-00009448.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.40 %
Fiber number
Focal Distance [mm]
Airmass

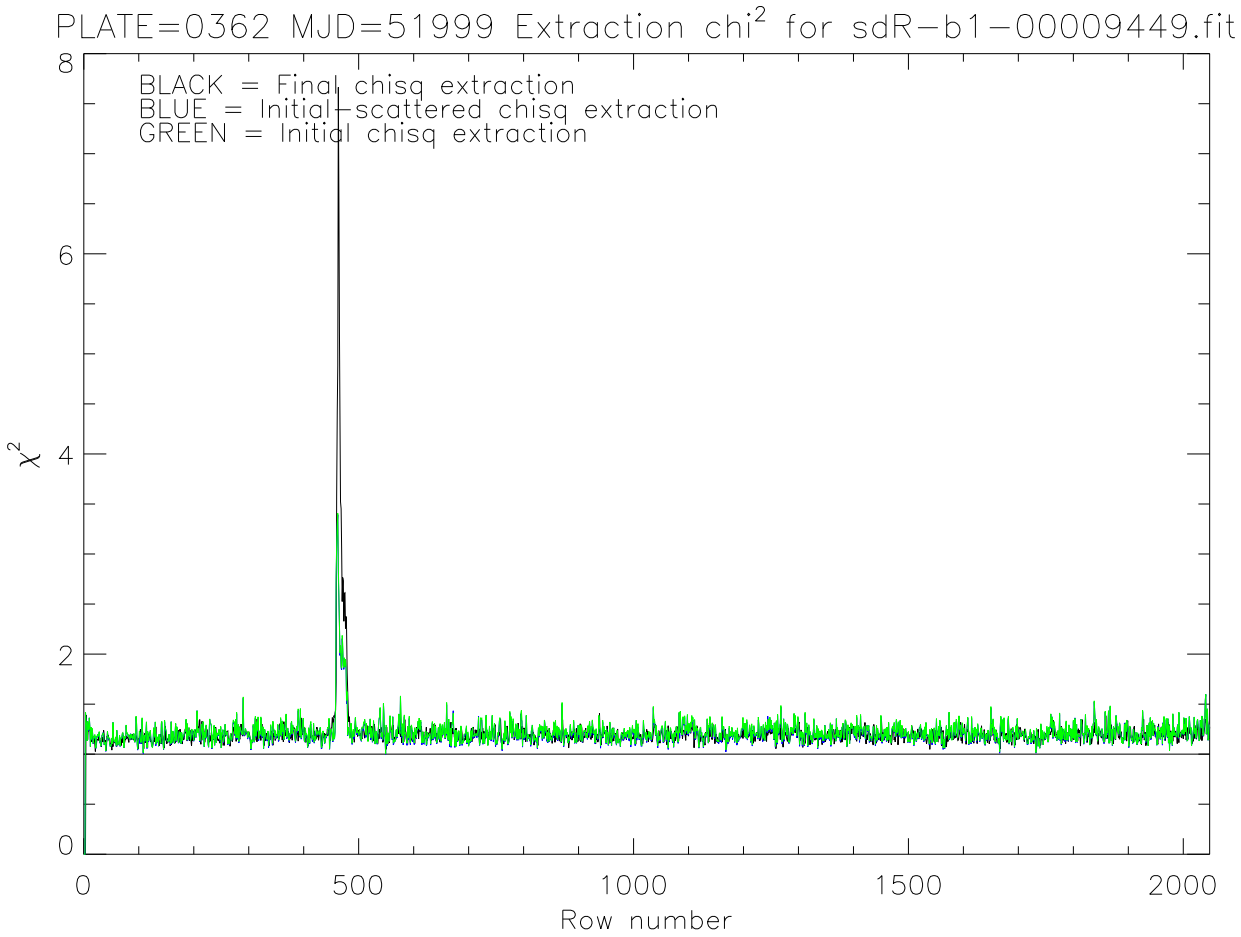

PLATE=0362 MJD=51999 Fiber-Flats for sdR-b1-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.033
Max value = 1.291
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:22:49 2008

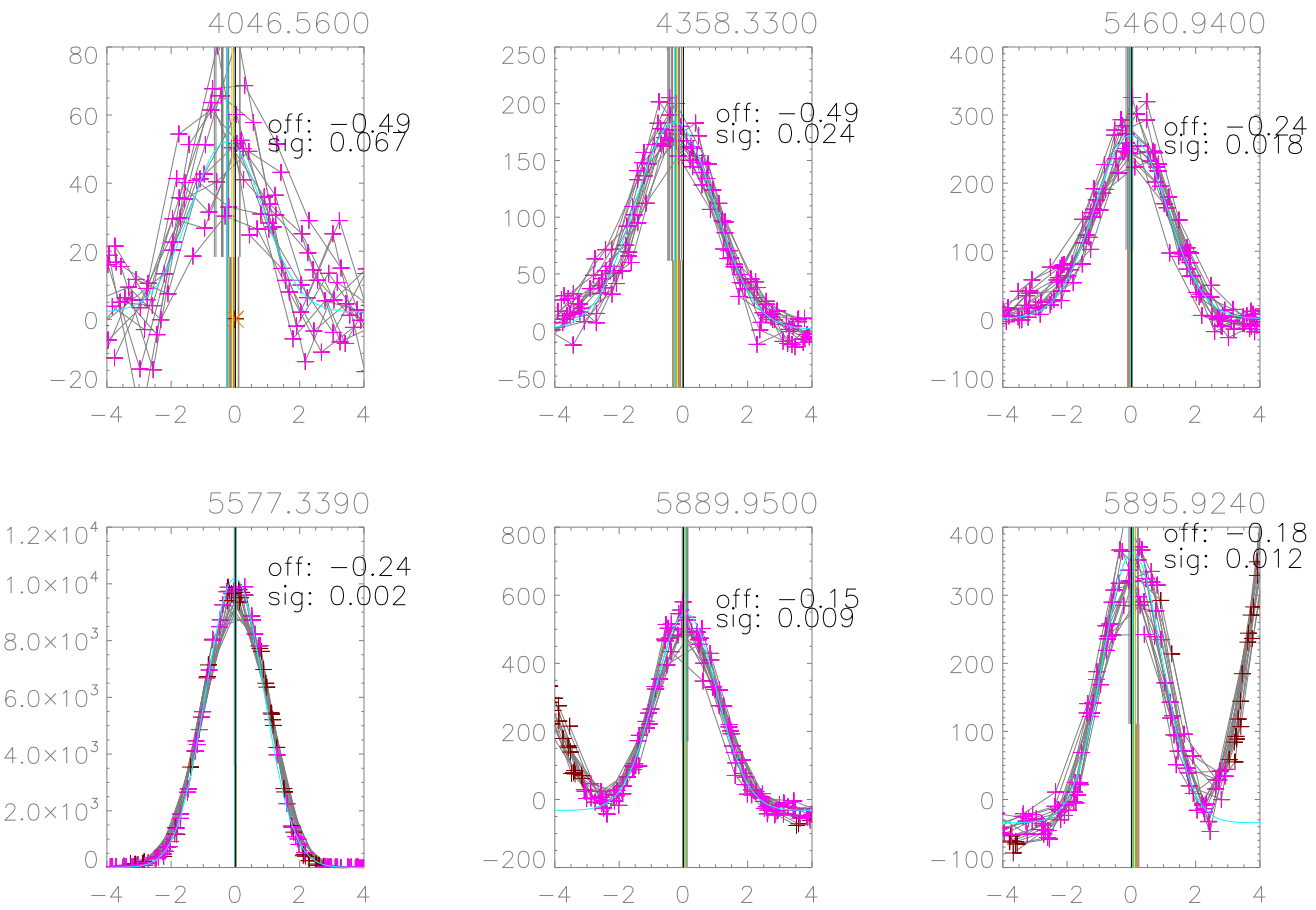

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR−b1−00009449.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
6.5
6.5
6.5

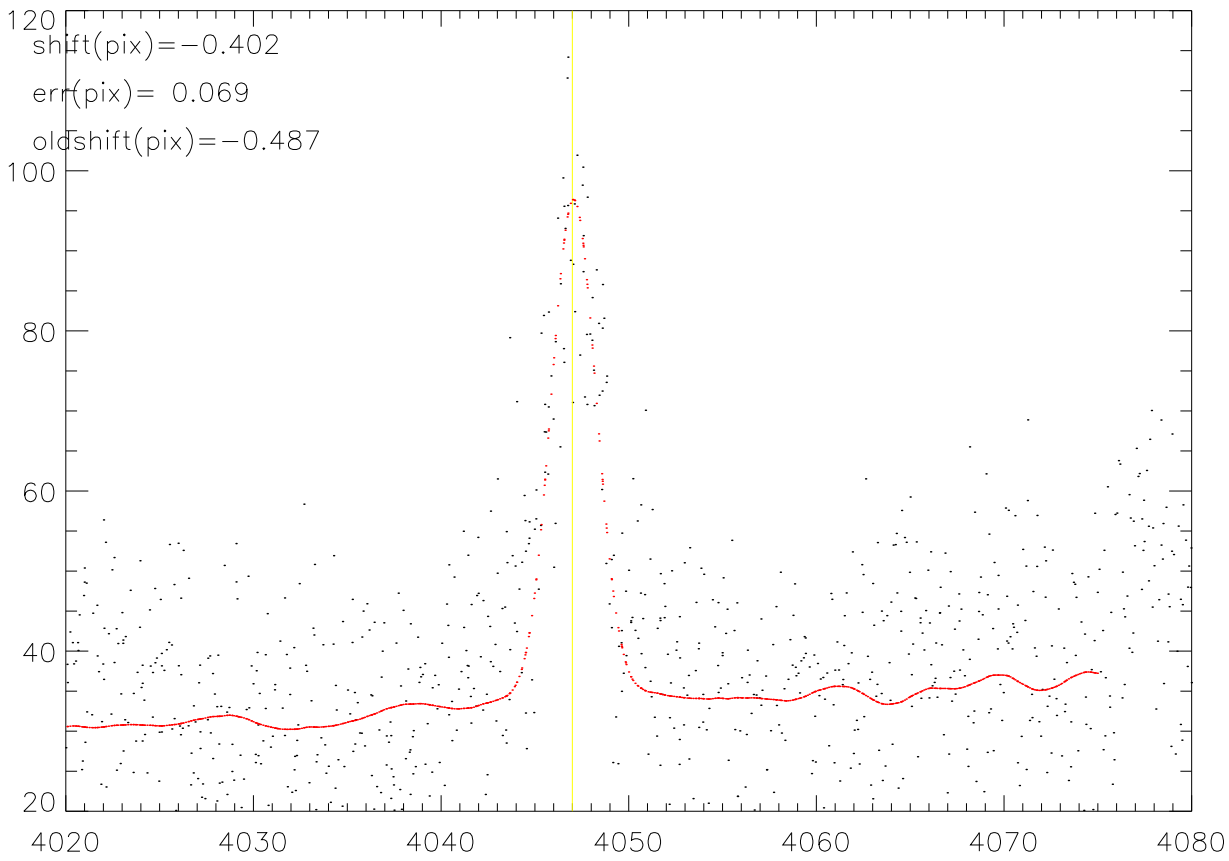

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-b1-00009449.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.134
Max value = 7.287
Wed Feb 27 21:23:40 2008

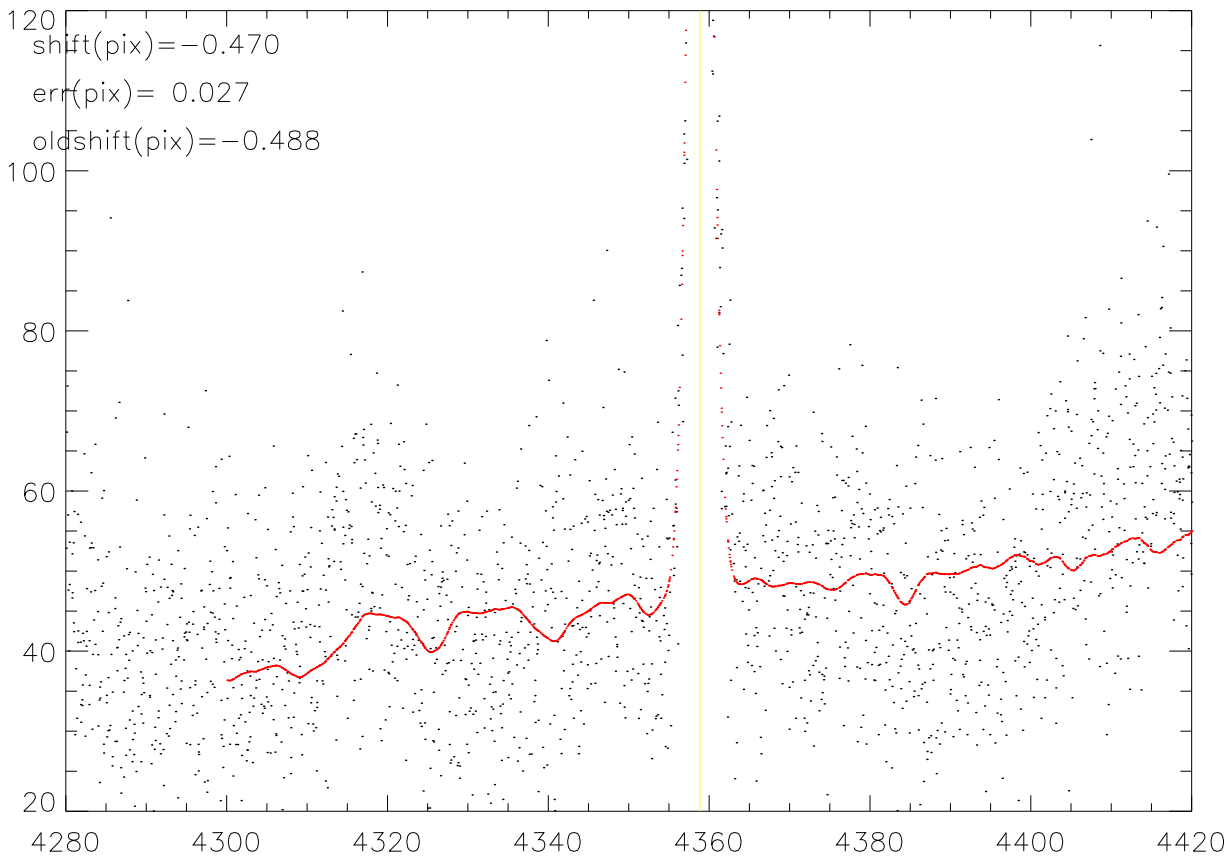

PLATE=0362 MJD=51999 Scattered Light on sdR-b1-00009449.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.18
3.27
2.36
5.09

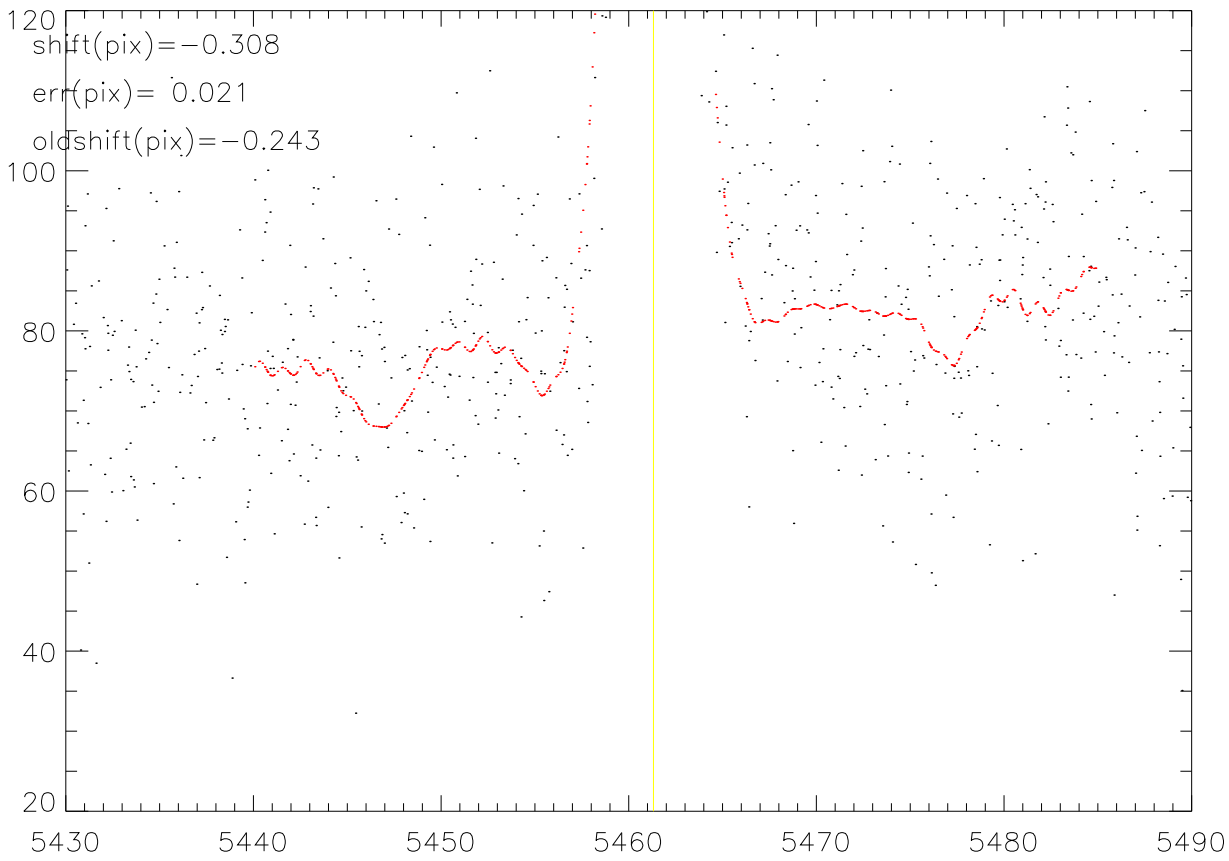

PLATE=0362 MJD=51999 Scattered Light on sdR-b1-00009449.fit
Brightness [electrons/pix]
0
2
4
6
Error bars denote full range
Min value = 2.730
Max value = 5.212
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:26:48 2008

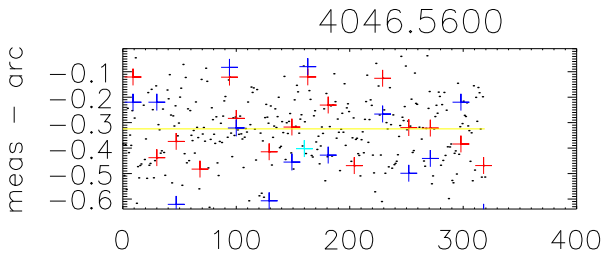

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-b1-00009449.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

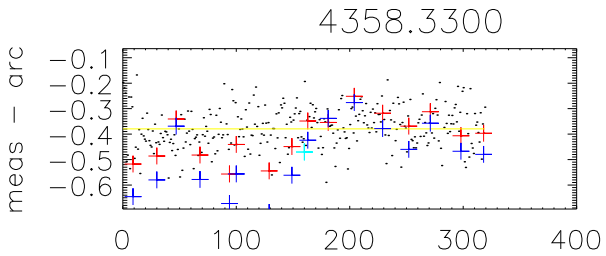

4046.5600
off: −0.49
sig: 0.067
4358.3300
off: −0.49
sig: 0.024
5460.9400
off: −0.24
sig: 0.018
5577.3390
off: −0.24
sig: 0.002
5889.9500
off: −0.15
sig: 0.009
5895.9240
off: −0.18
sig: 0.012

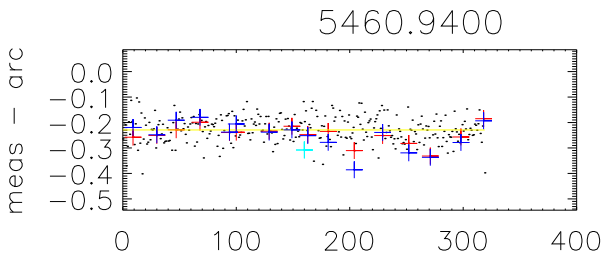

shift(pix)=−0.402
err(pix)= 0.069
oldshift(pix)=−0.487
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

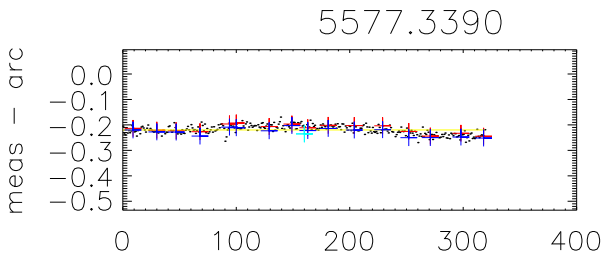

shift(pix)=−0.470
err(pix)= 0.027
oldshift(pix)=−0.488
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

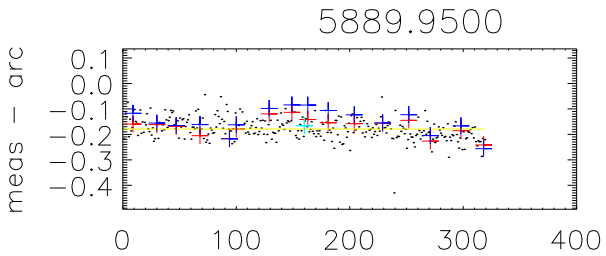

shift(pix)=−0.308
err(pix)= 0.021
oldshift(pix)=−0.243
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

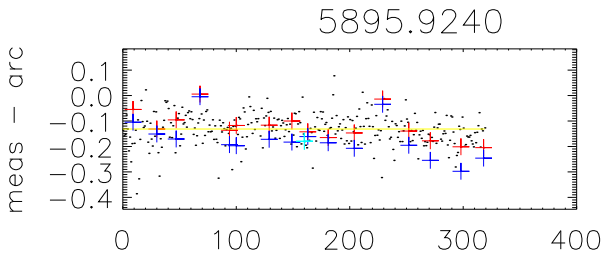

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

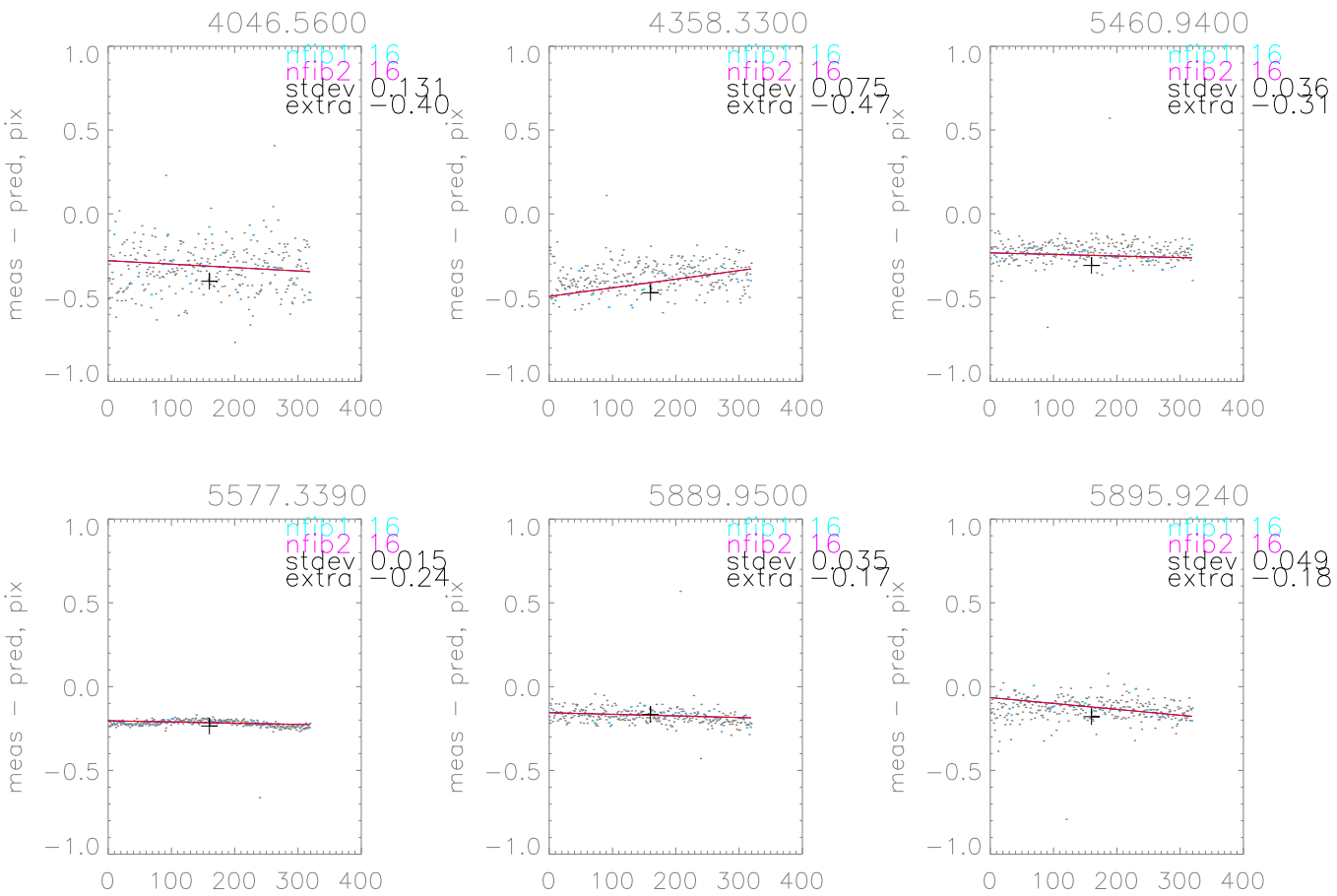

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

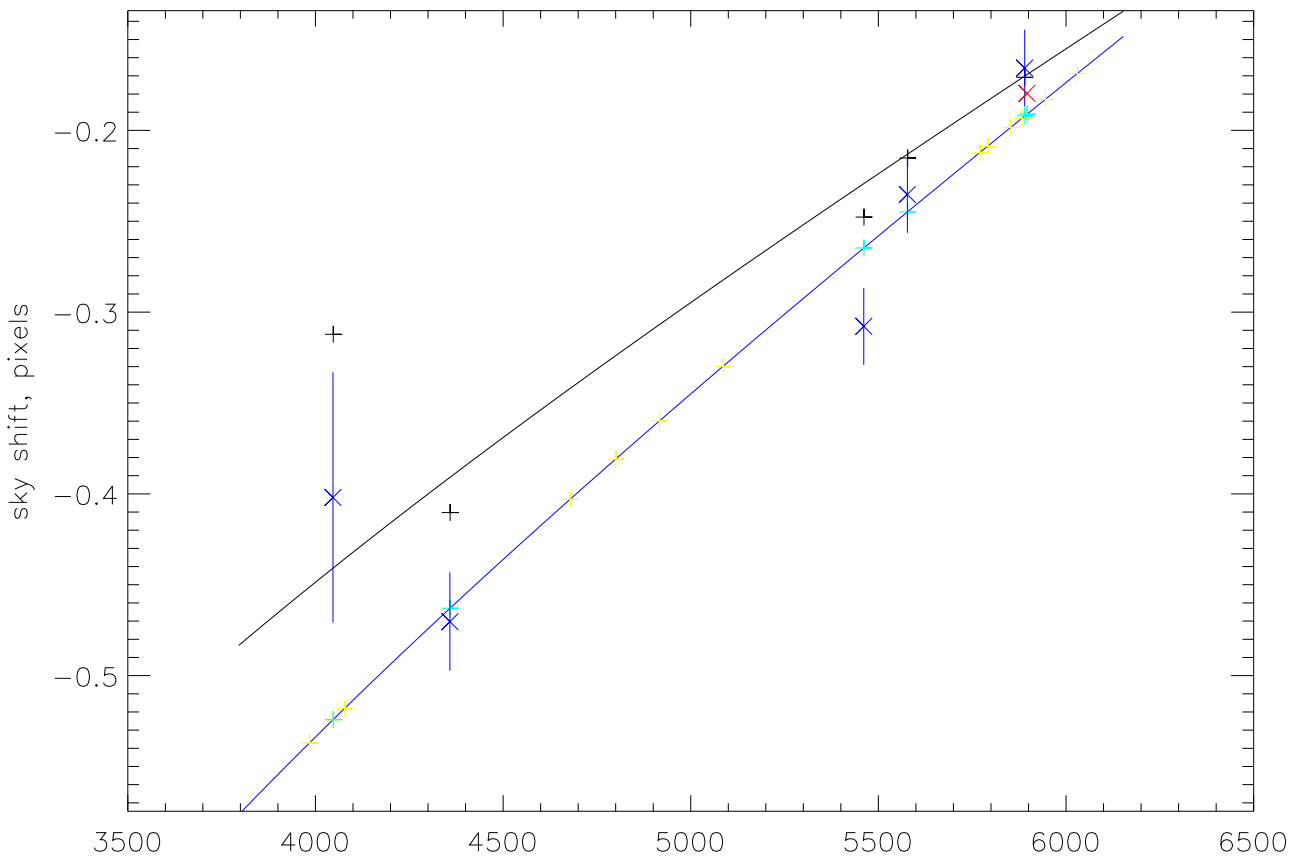

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

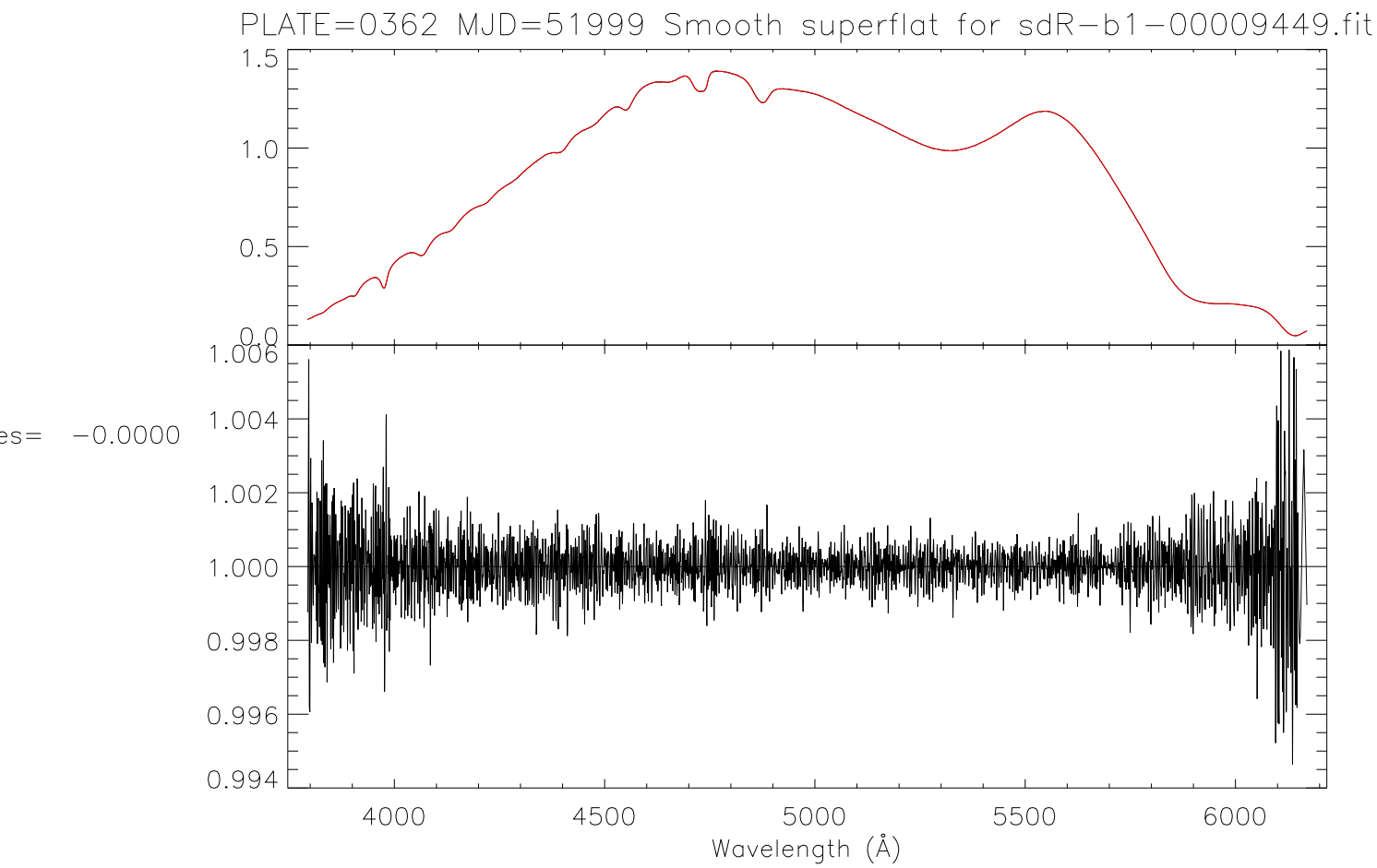

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

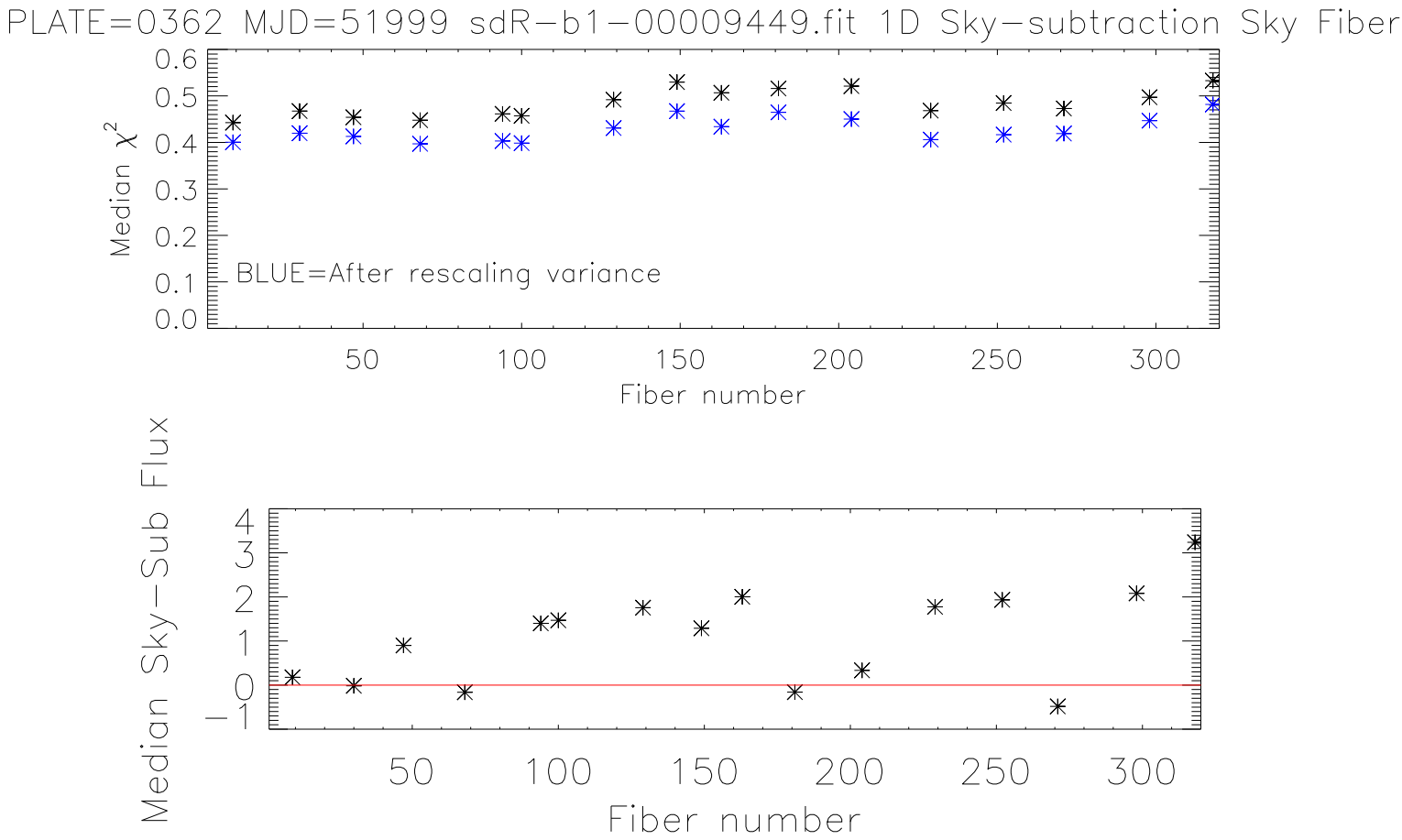

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

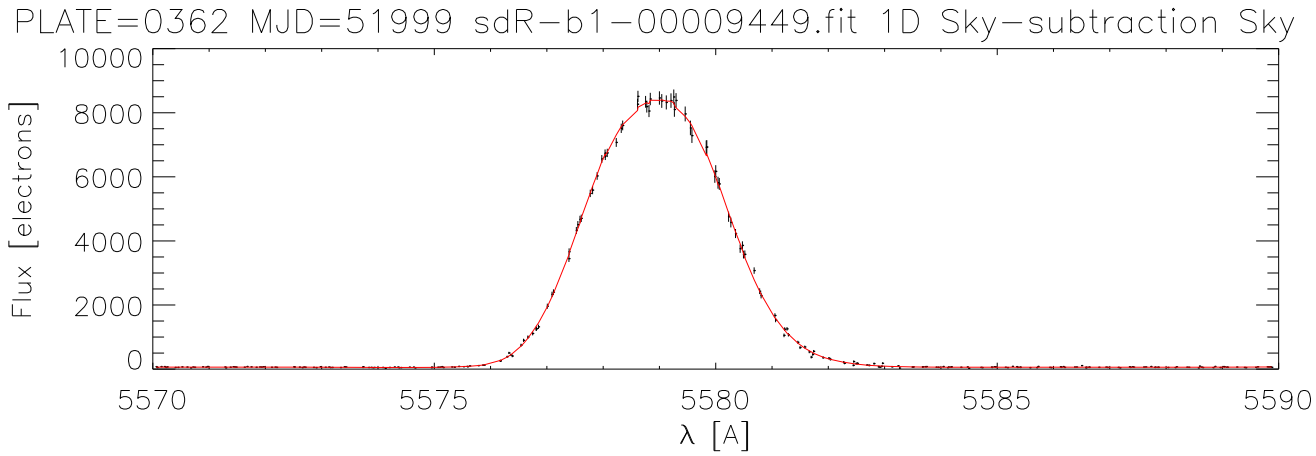

4046.5600
nfib1 16
nfib2 16
stdev 0.131
extra −0.40
4358.3300
nfib1 16
nfib2 16
stdev 0.075
extra −0.47
5460.9400
nfib1 16
nfib2 16
stdev 0.036
extra −0.31
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra −0.24
5889.9500
nfib1 16
nfib2 16
stdev 0.035
extra −0.17
5895.9240
nfib1 16
nfib2 16
stdev 0.049
extra −0.18
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

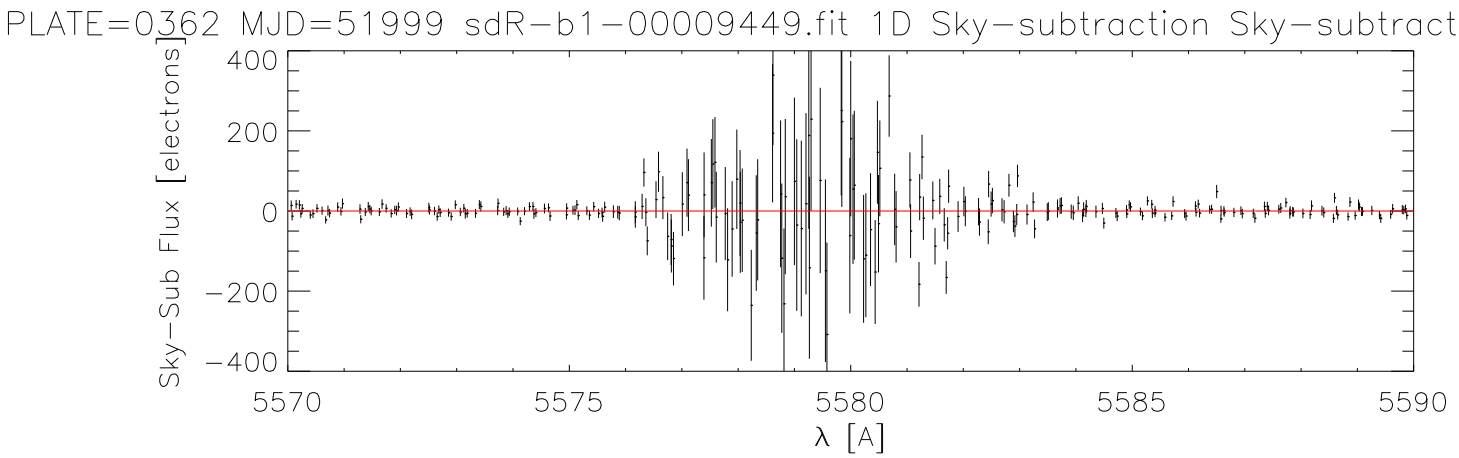

sky shift, pixels
−0.2
−0.3
−0.4
−0.5
3500
4000
4500
5000
5500
6000
6500

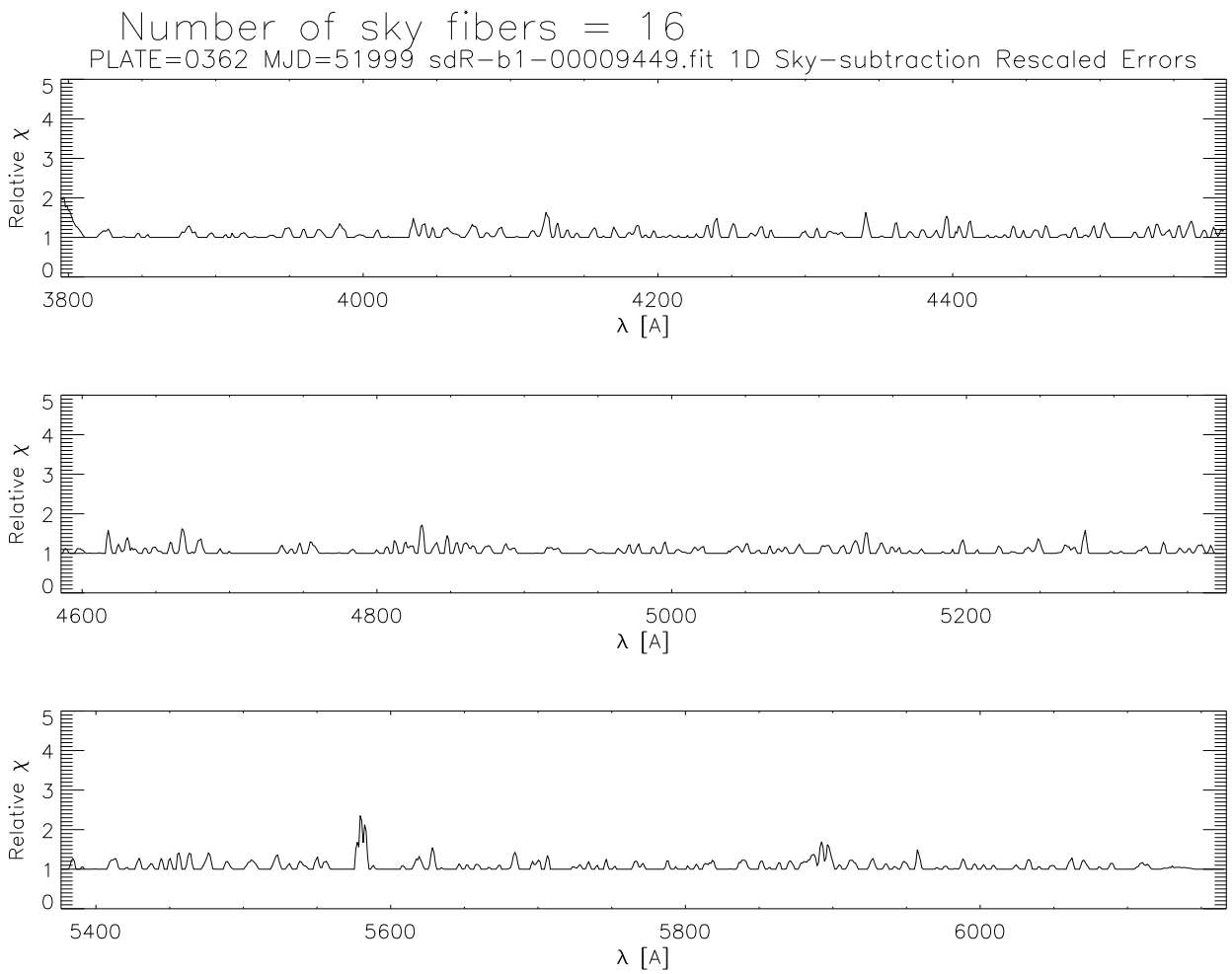

PLATE=0362 MJD=51999 Smooth superflat for sdR-b1-00009449.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

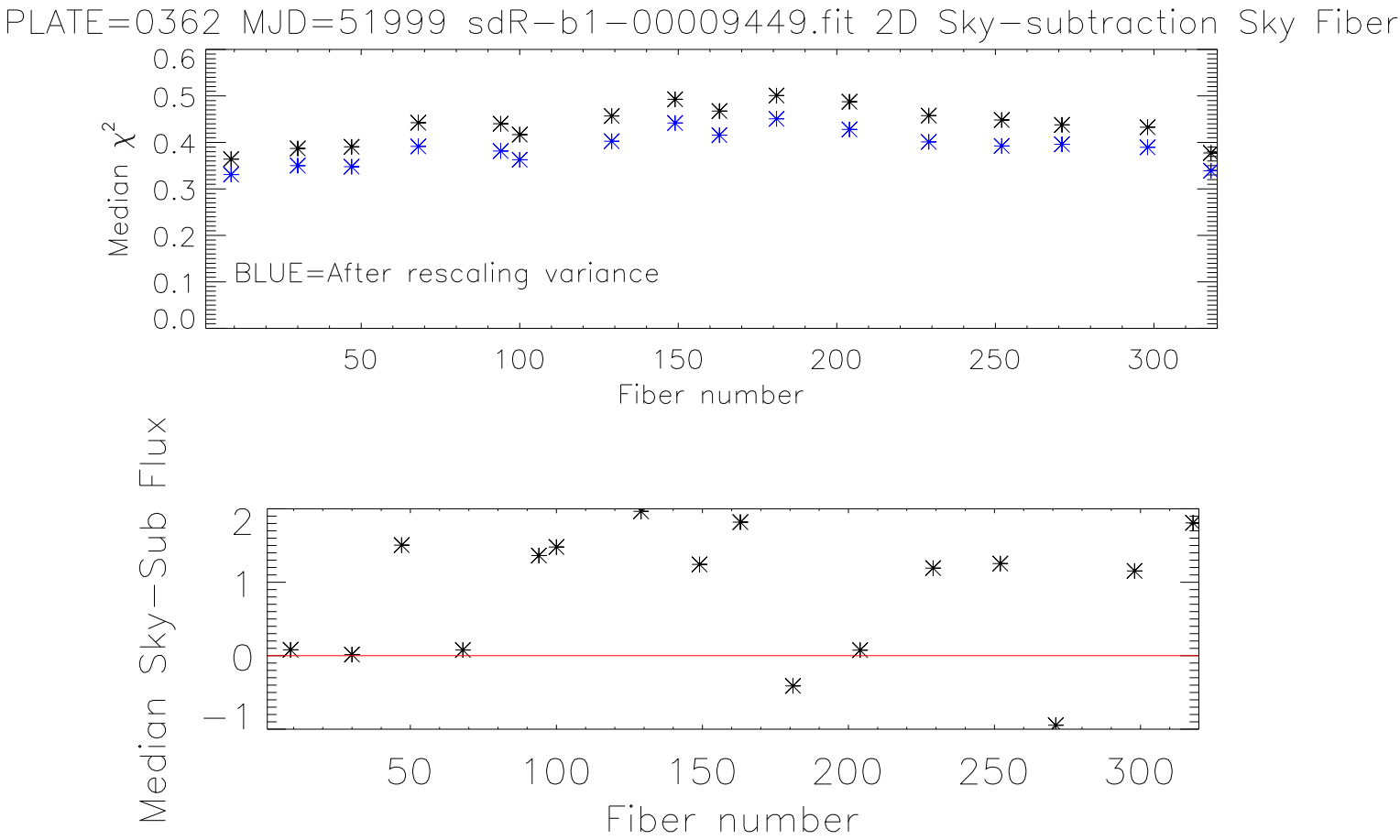
es= −0.0000

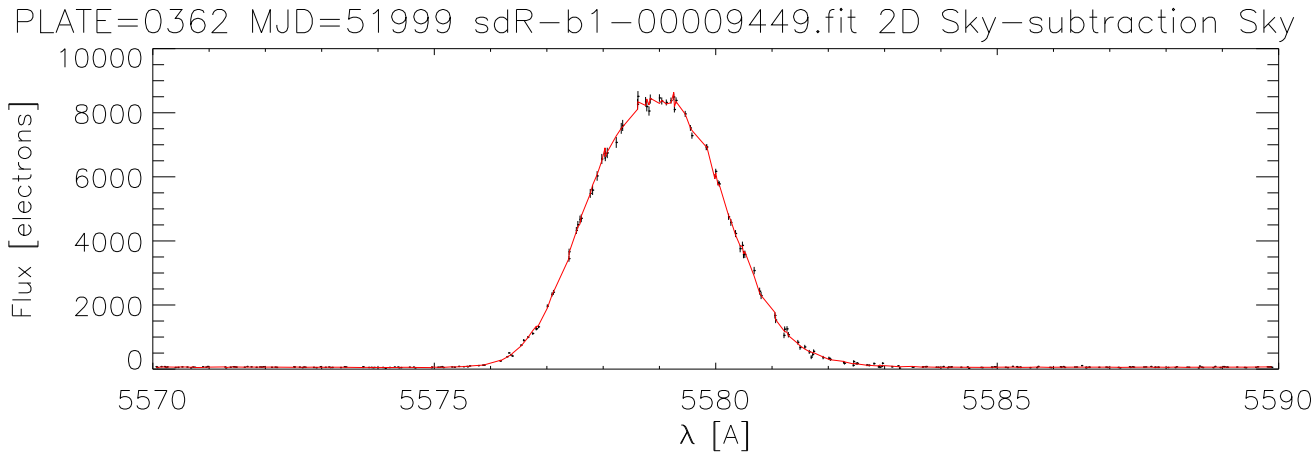

PLATE=0362 MJD=51999 sdR-b1-00009449.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

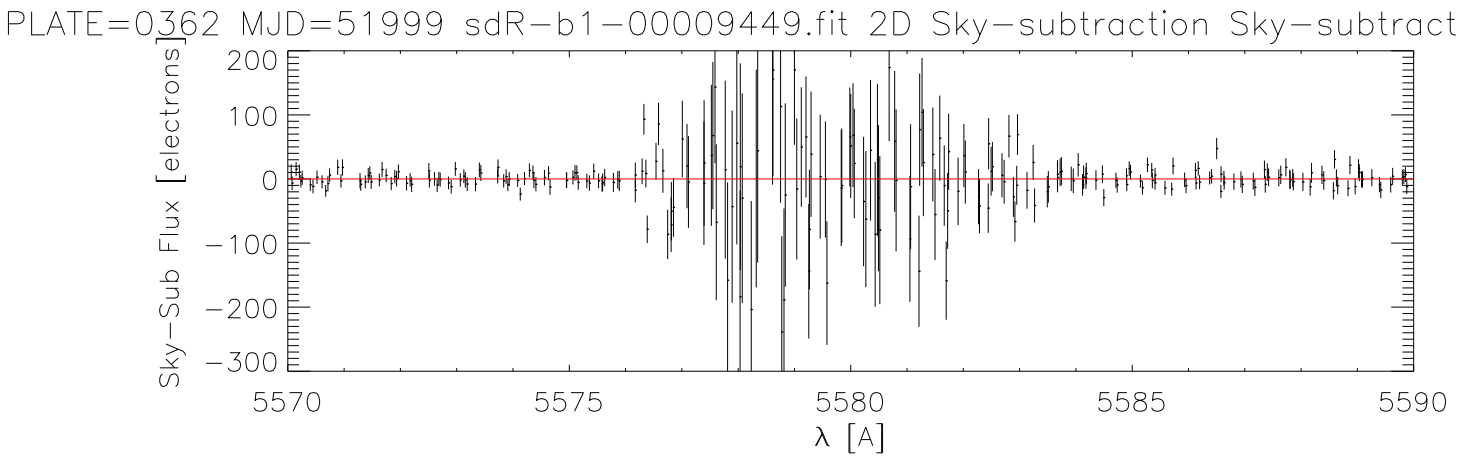

PLATE=0362 MJD=51999 sdR-b1-00009449.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

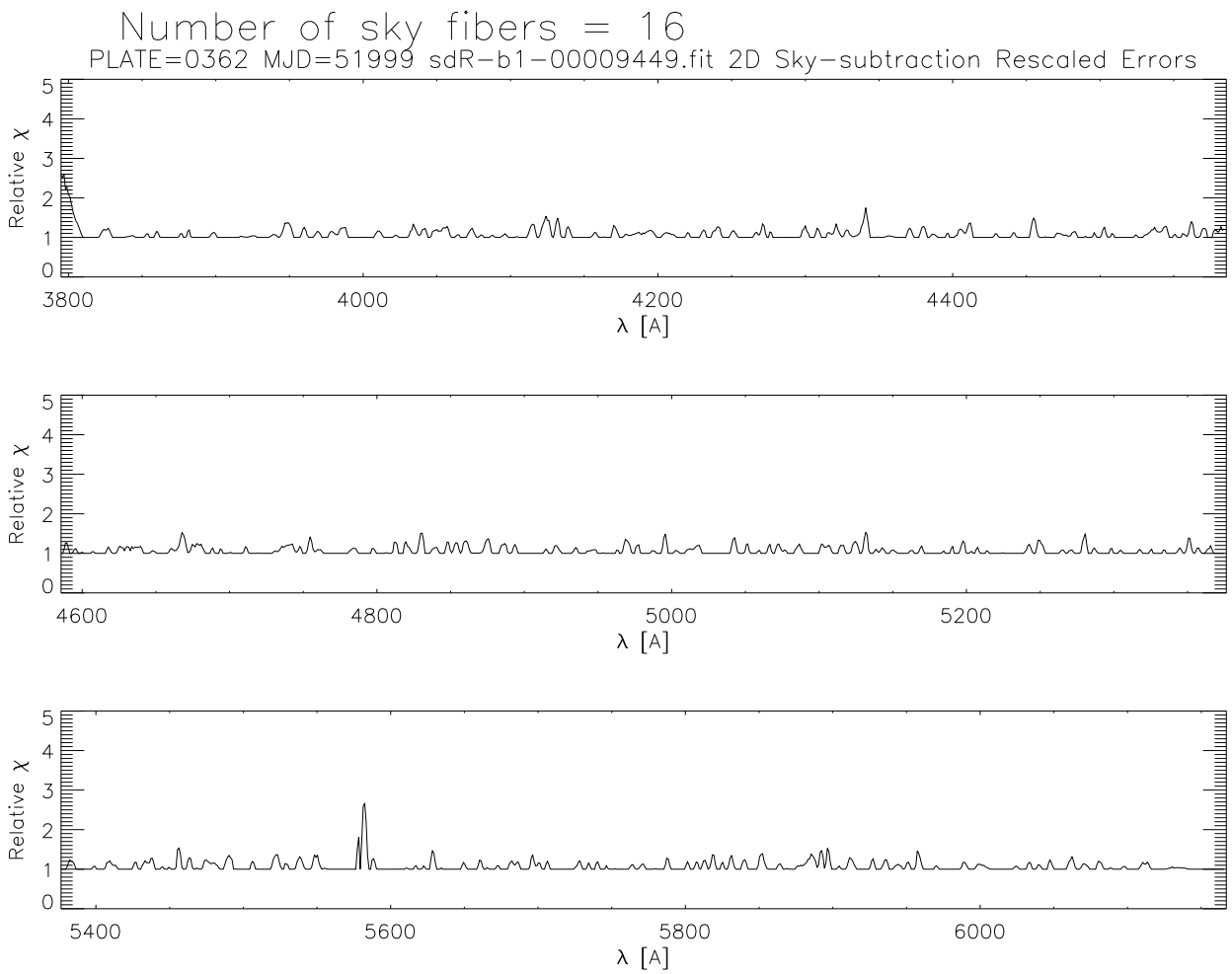

PLATE=0362 MJD=51999 sdR-b1-00009449.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

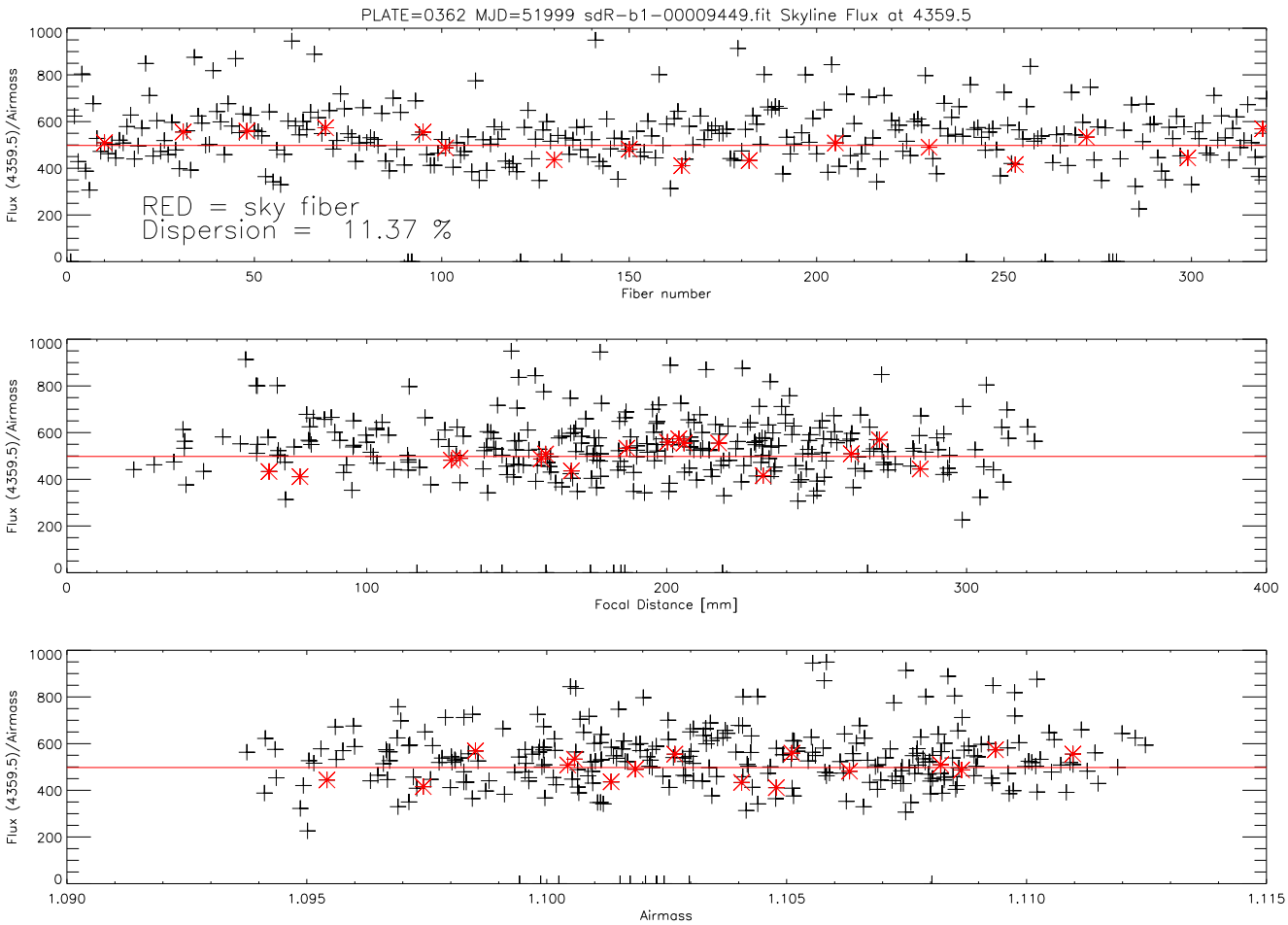

Number of sky fibers = 16
PLATE=0362 MJD=51999 sdR-b1-00009449.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

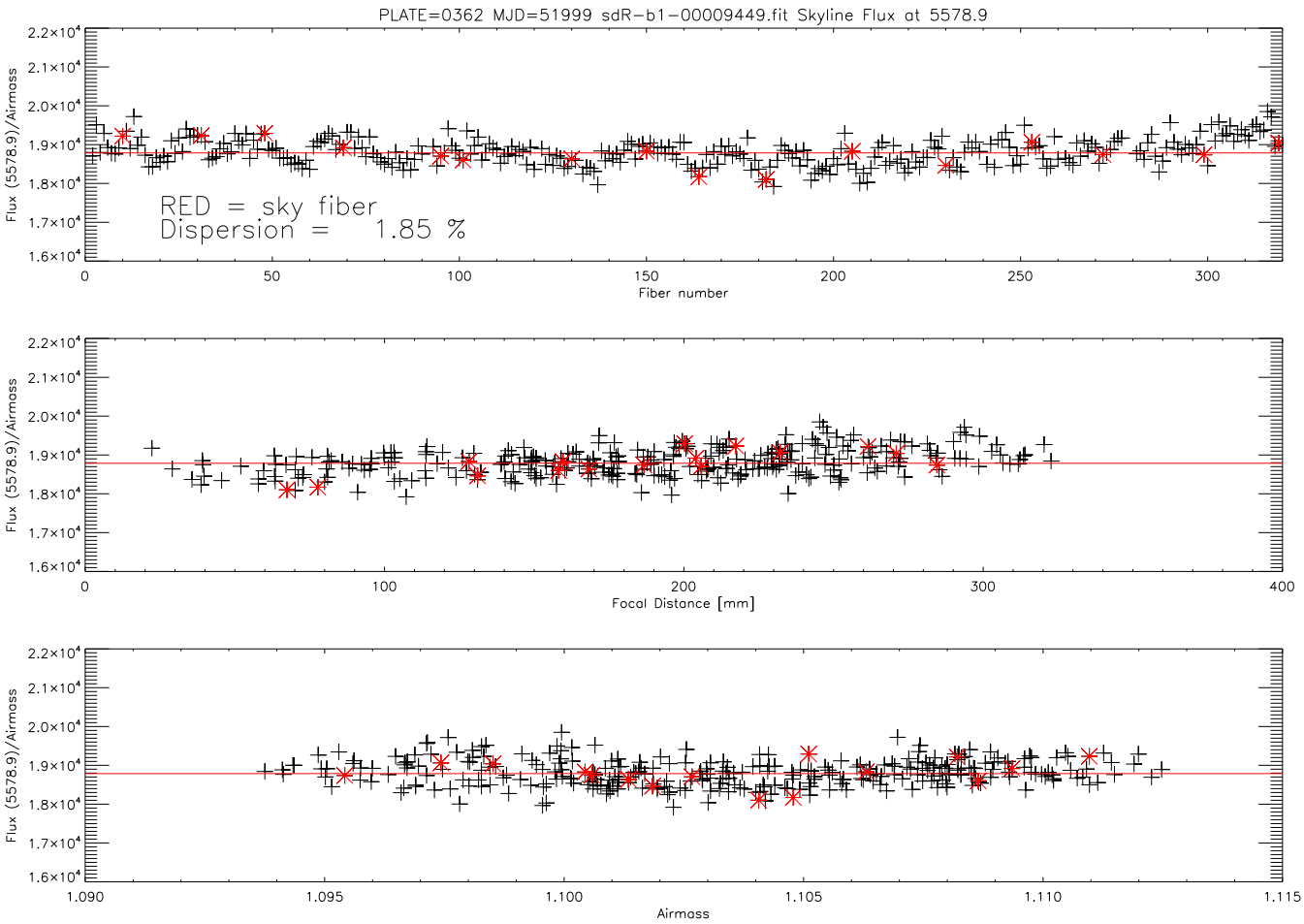

PLATE=0362 MJD=51999 sdR-b1-00009449.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

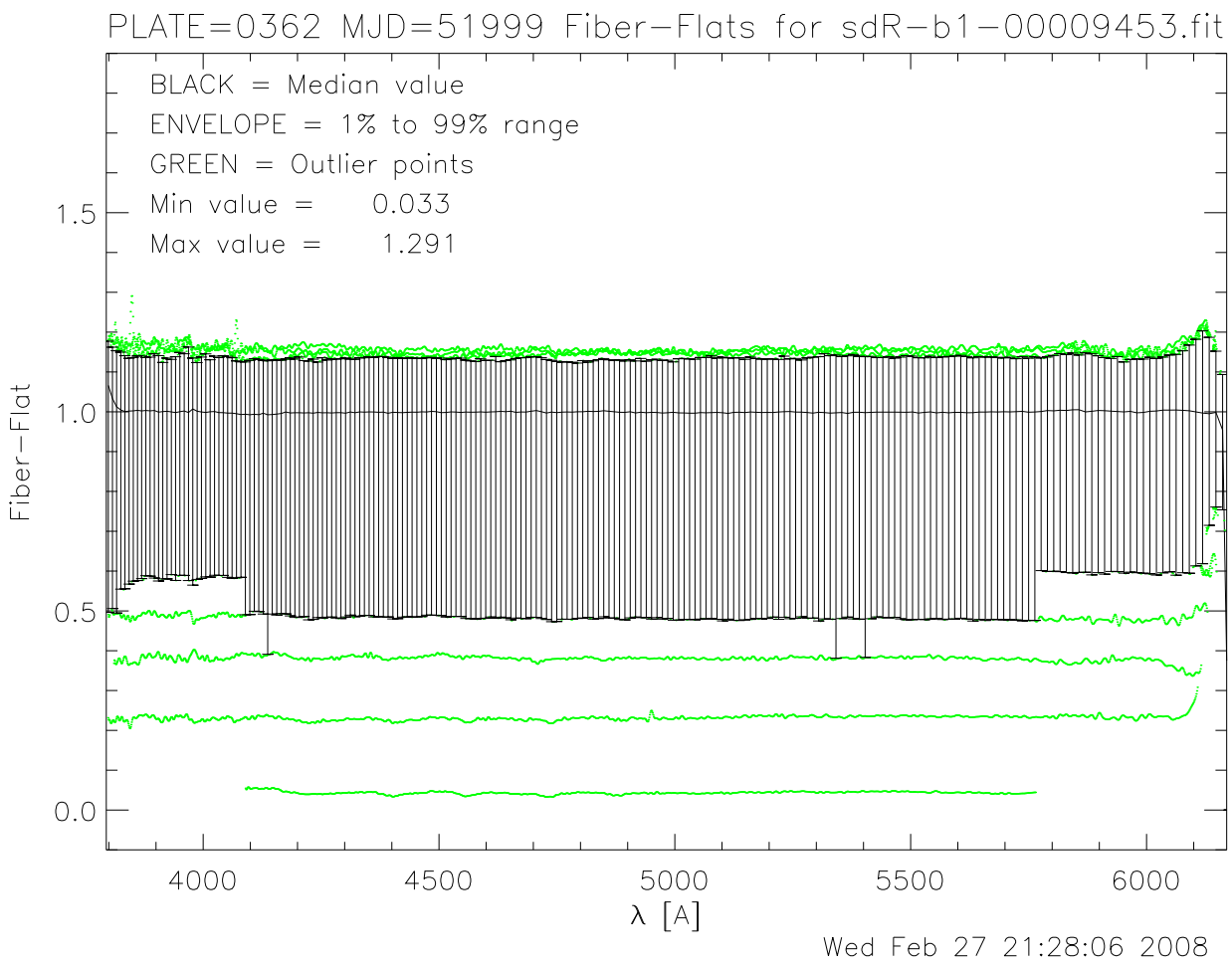

PLATE=0362 MJD=51999 sdR-b1-00009449.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

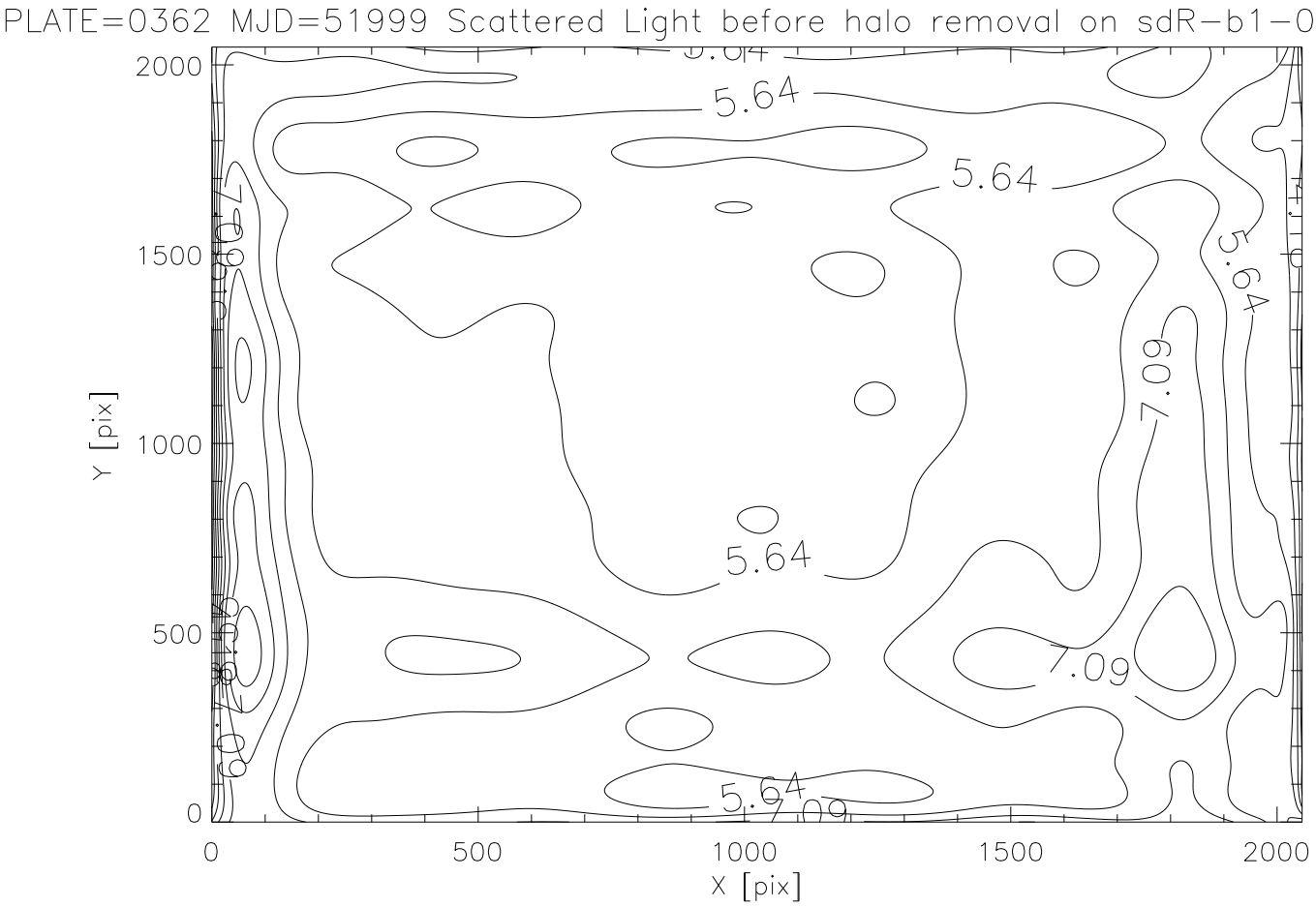

PLATE=0362 MJD=51999 sdR-b1-00009449.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

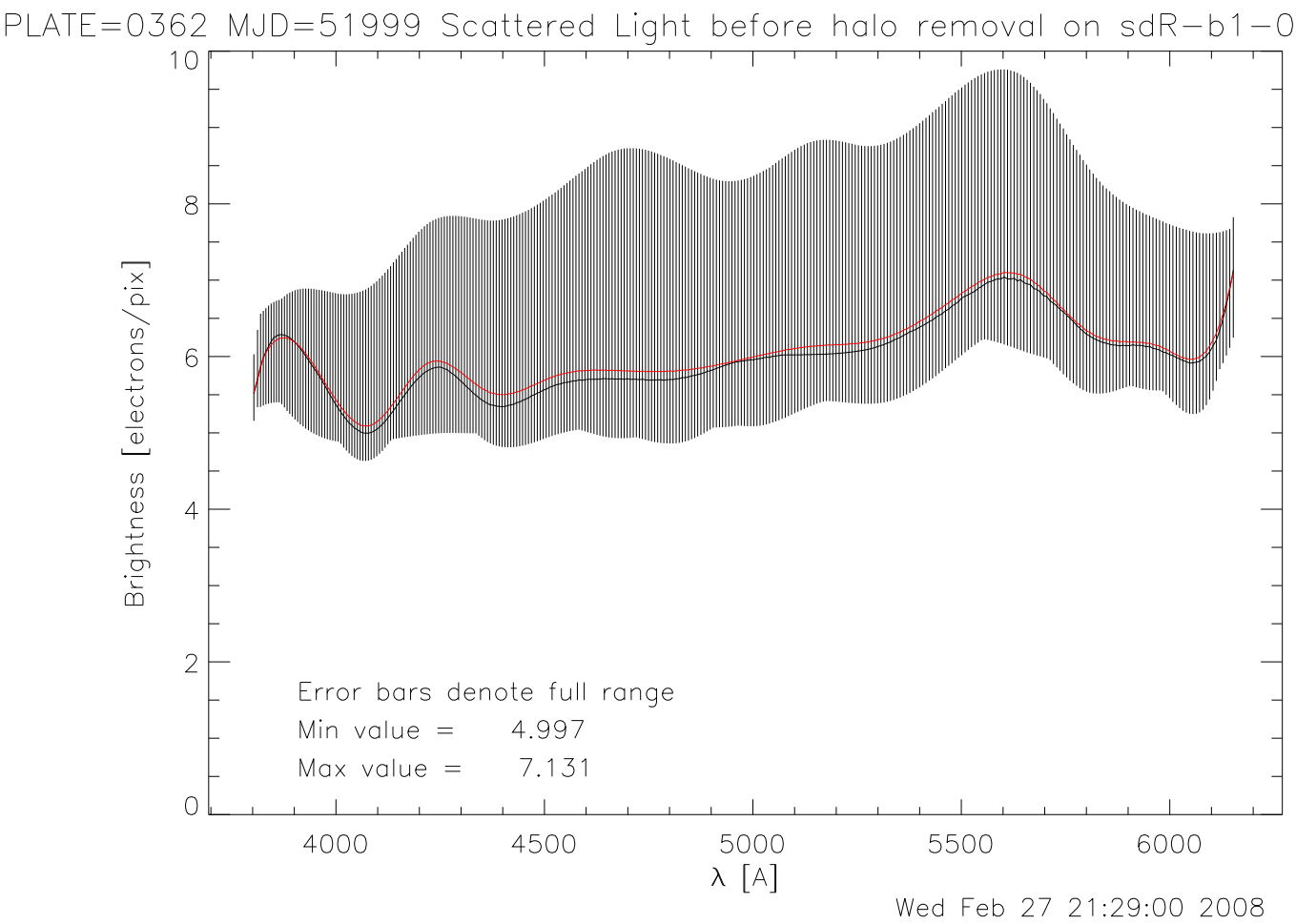

Number of sky fibers = 16
PLATE=0362 MJD=51999 sdR-b1-00009449.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

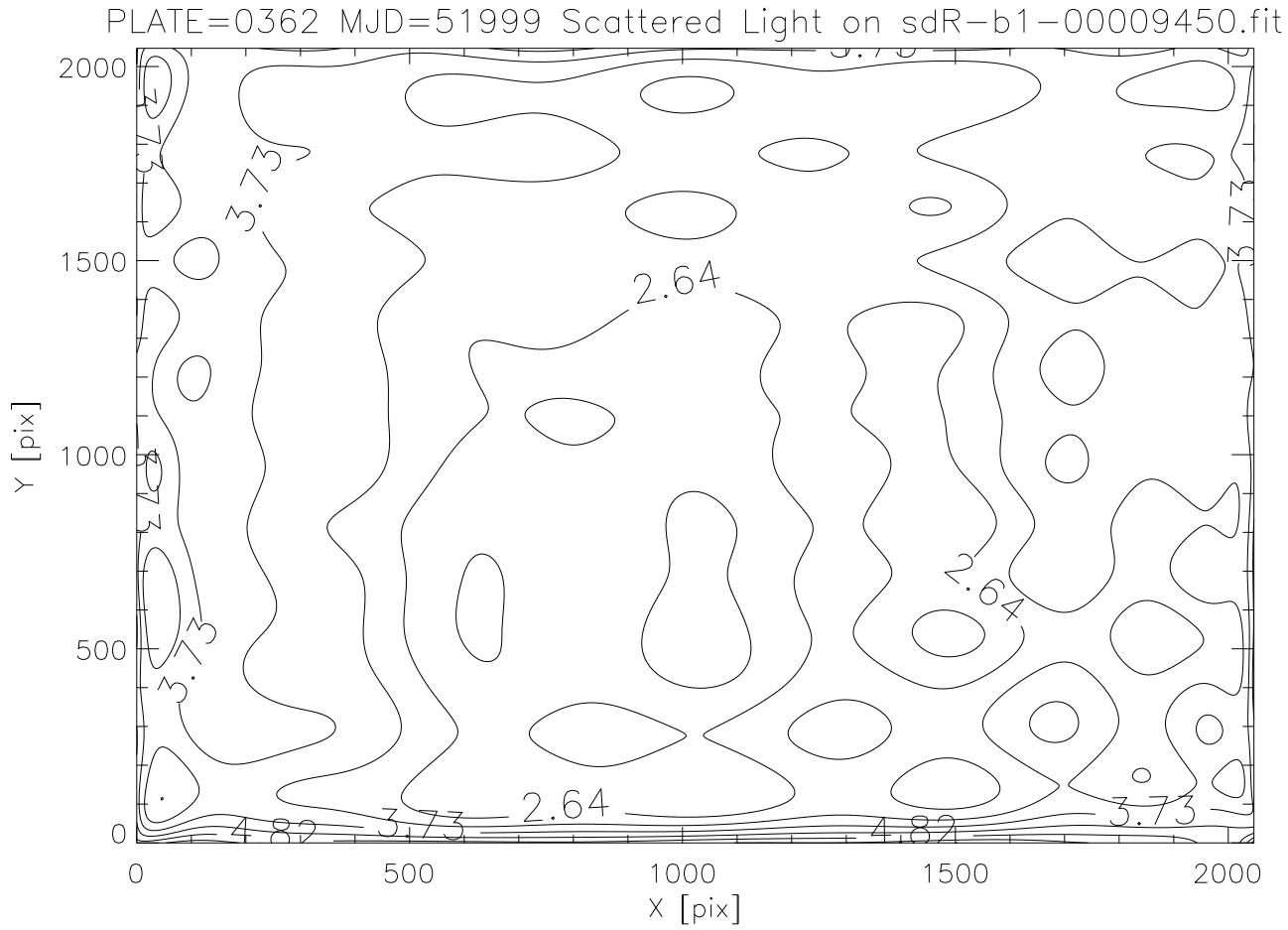

PLATE=0362 MJD=51999 sdR-b1-00009449.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.37 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

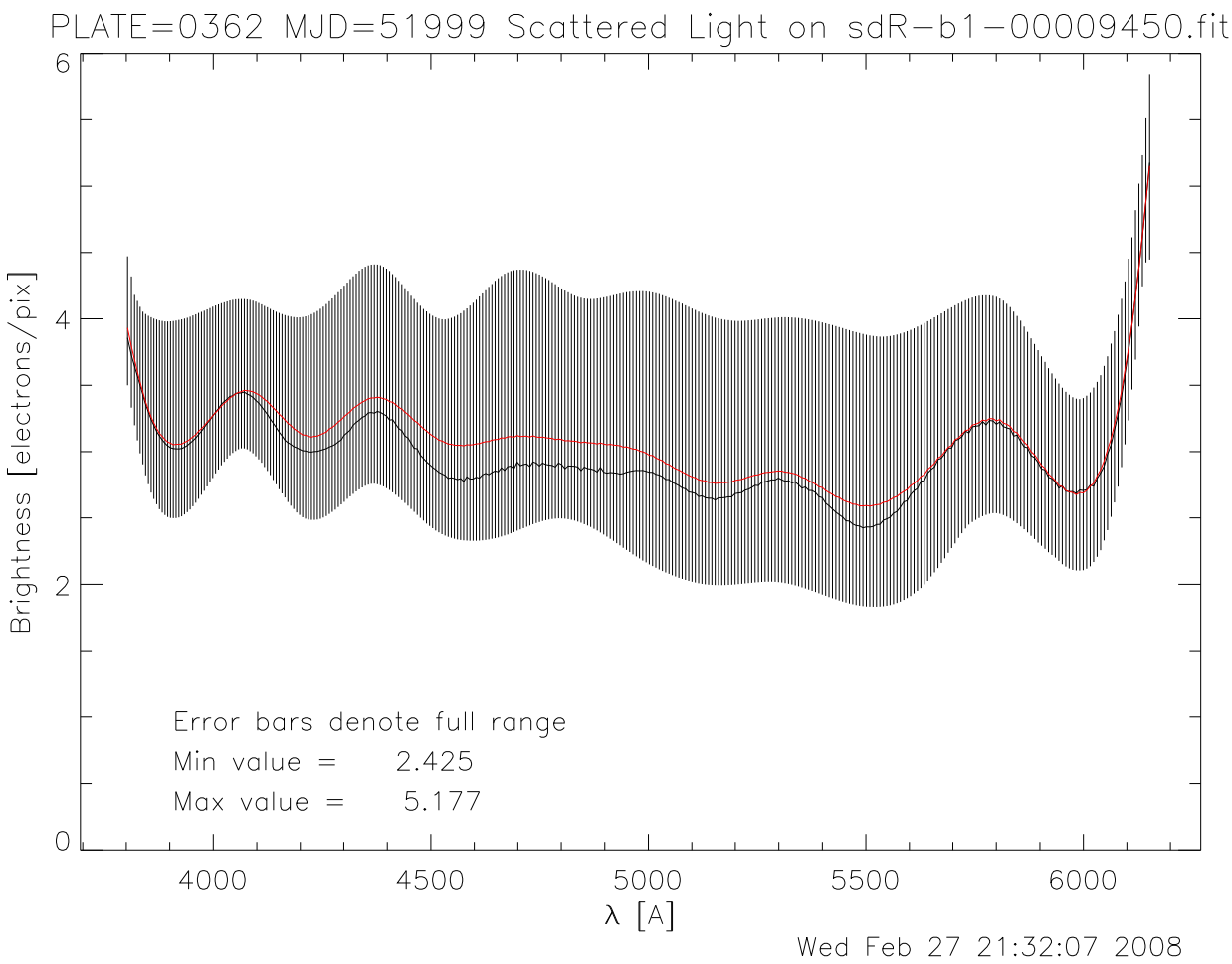

PLATE=0362 MJD=51999 sdR-b1-00009449.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.85 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

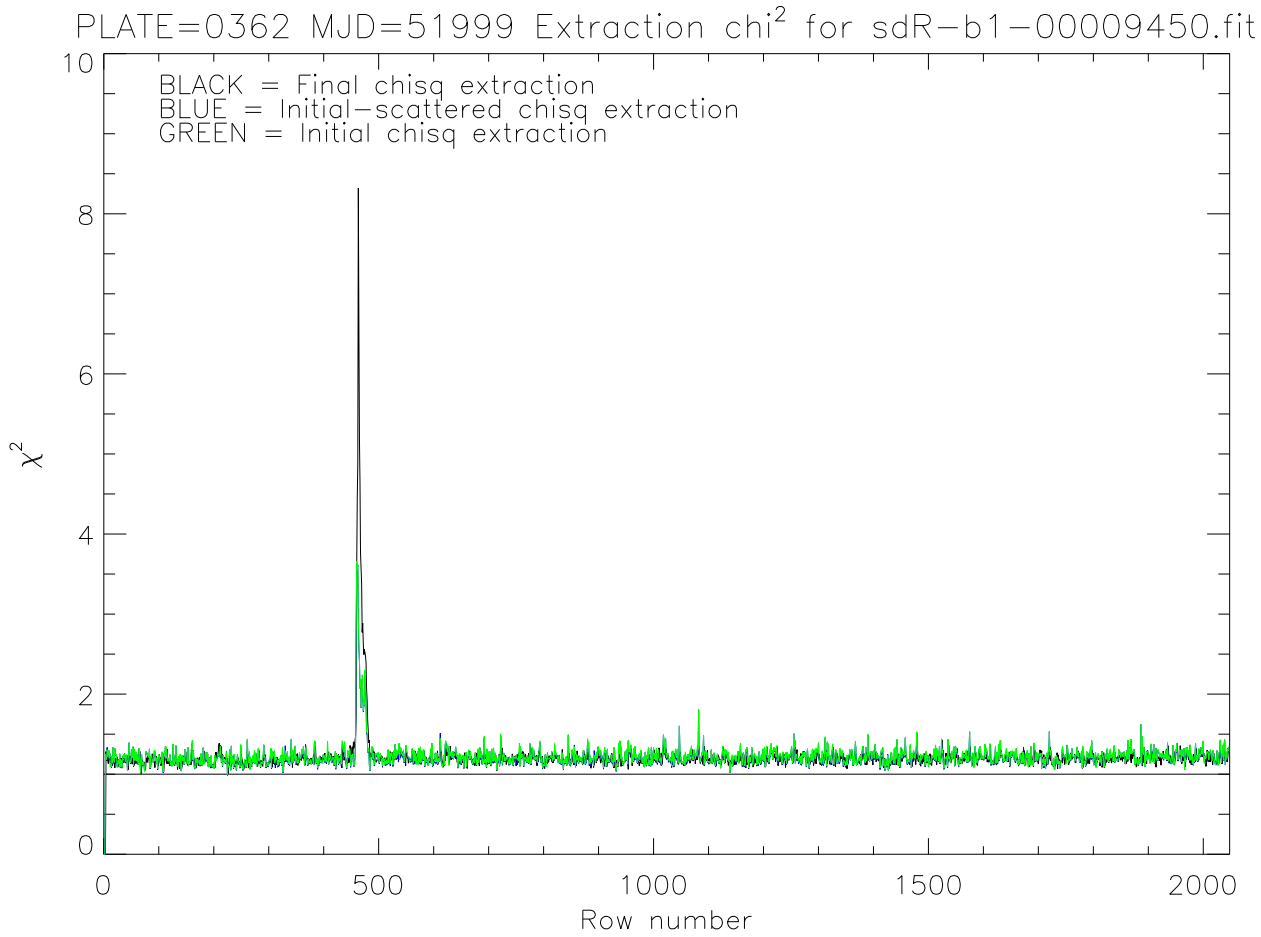

PLATE=0362 MJD=51999 Fiber−Flats for sdR−b1−00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.033
Max value = 1.291
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:28:06 2008

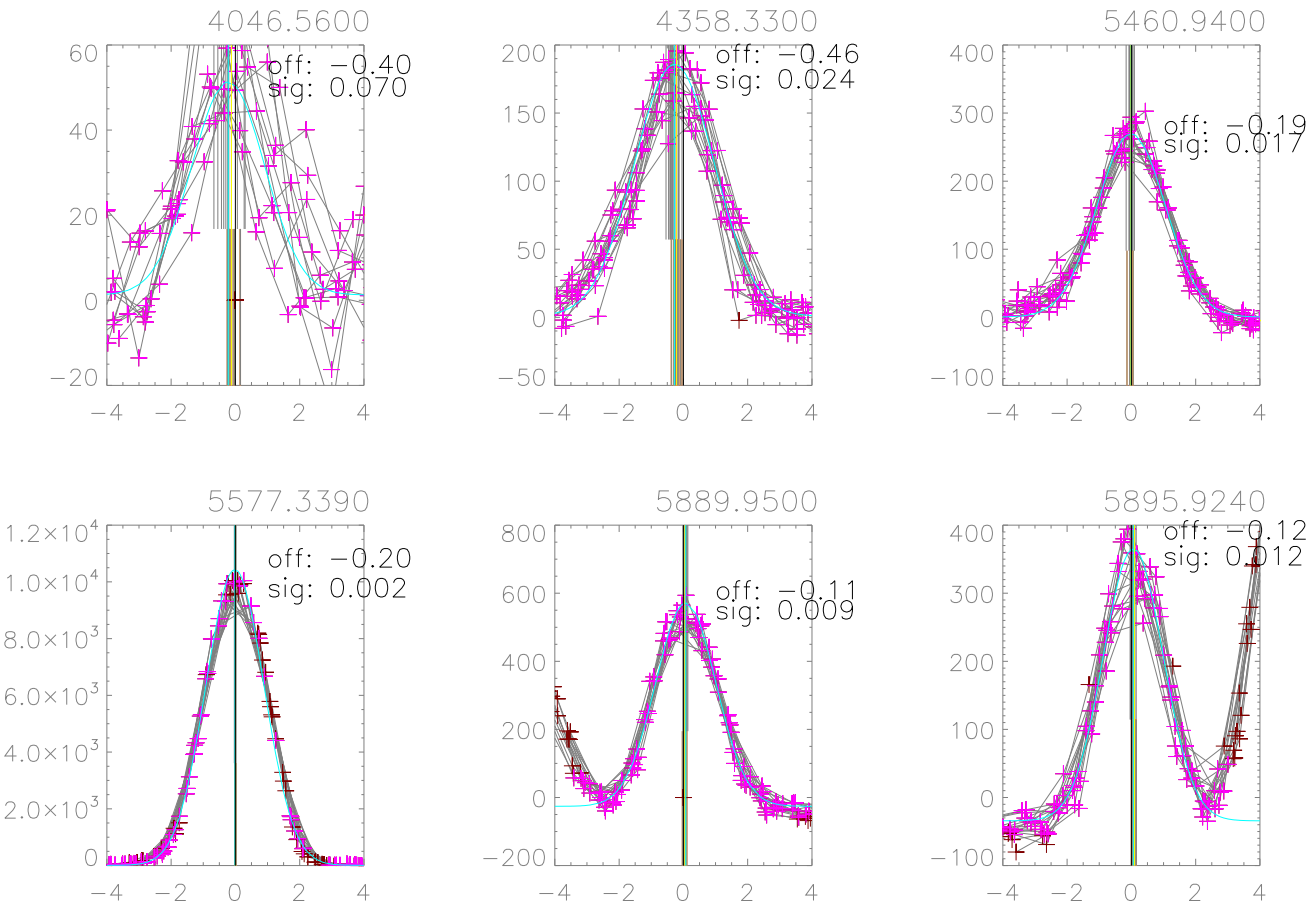

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR−b1−00009450.f
5.64
5.64
5.64
7.09
5.64
7.09
7.09
5.64
7.09
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

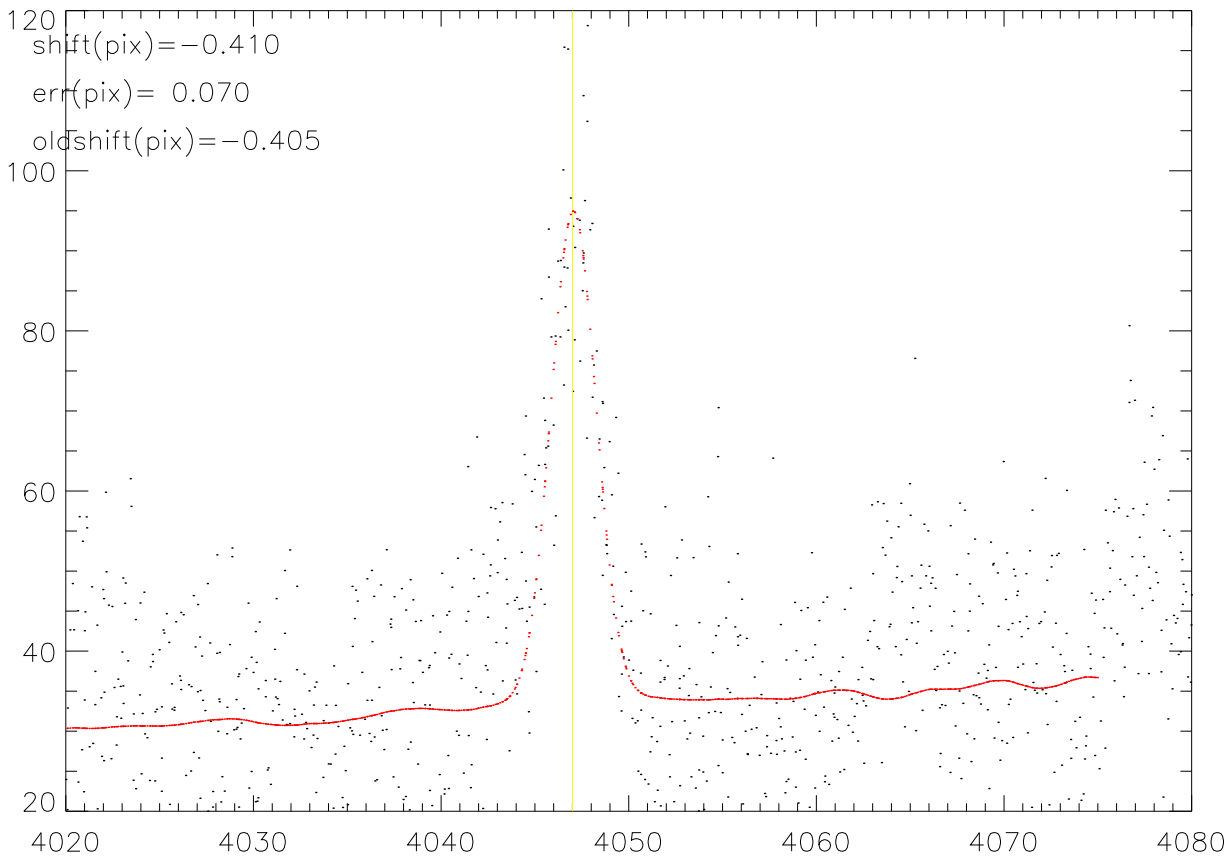

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-b1-00009450.f
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 4.997
Max value = 7.131
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:29:00 2008

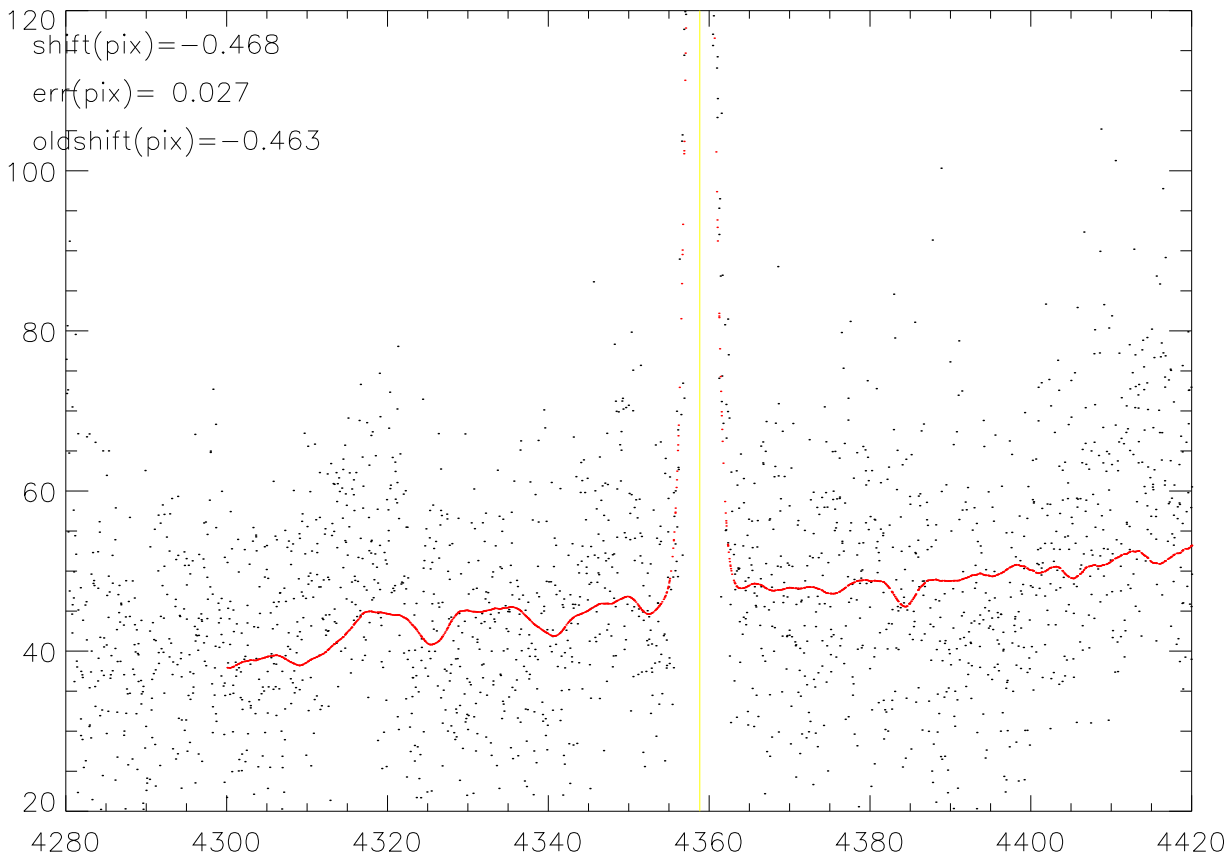

PLATE=0362 MJD=51999 Scattered Light on sdR-b1-00009450.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.73
2.64
4.82

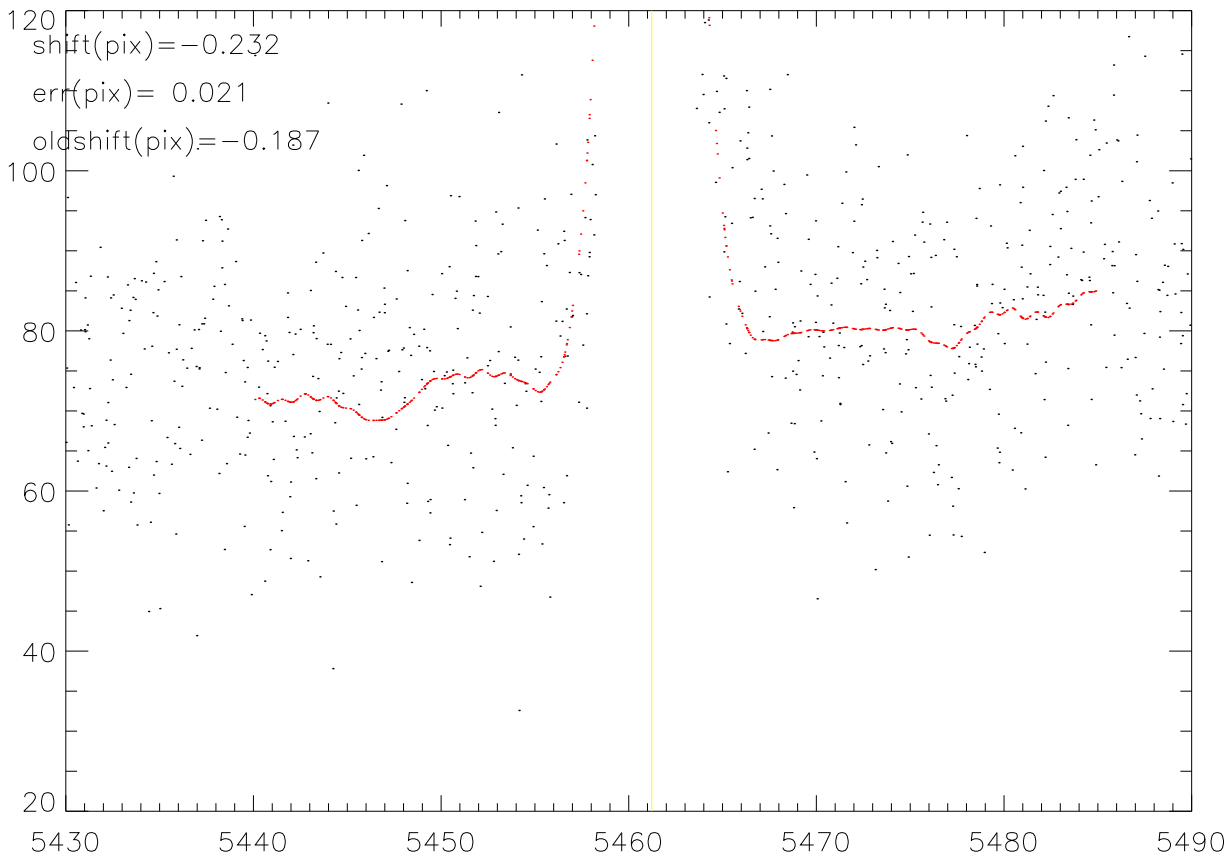

PLATE=0362 MJD=51999 Scattered Light on sdR-b1-00009450.fit
Brightness [electrons/pix]
0
2
4
6
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 2.425
Max value = 5.177
Wed Feb 27 21:32:07 2008

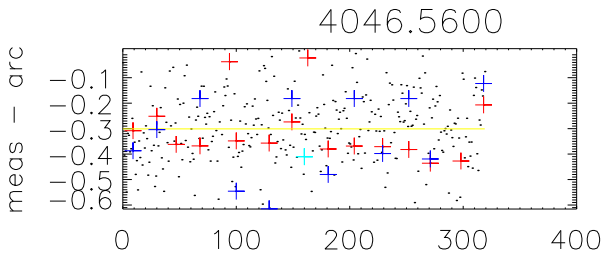

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-b1-00009450.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
0
500
1000
1500
2000
Row number

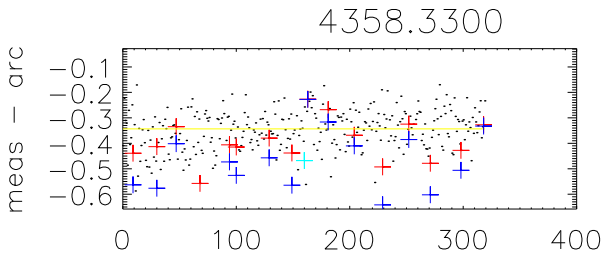

4046.5600
off: −0.40
sig: 0.070
4358.3300
off: −0.46
sig: 0.024
5460.9400
off: −0.19
sig: 0.017
5577.3390
off: −0.20
sig: 0.002
5889.9500
off: −0.11
sig: 0.009
5895.9240
off: −0.12
sig: 0.012

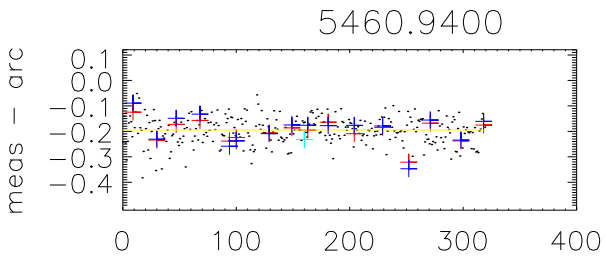

shift(pix)=−0.410
err(pix)= 0.070
oldshift(pix)=−0.405
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

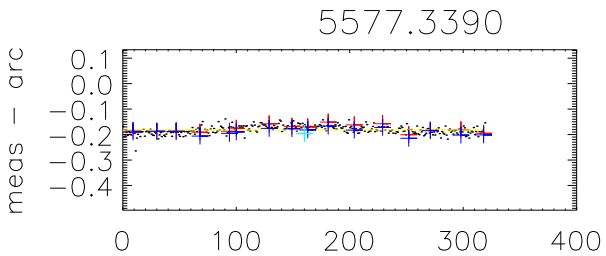

shift(pix)=−0.468
err(pix)= 0.027
oldshift(pix)=−0.463
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

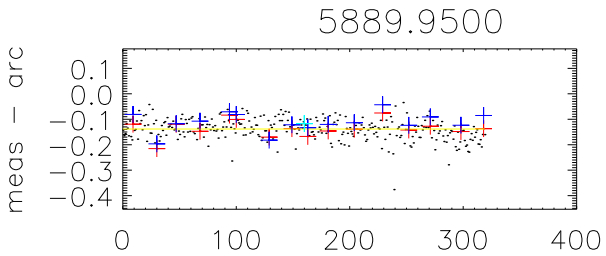

shift(pix)=−0.232
err(pix)= 0.021
oldshift(pix)=−0.187
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

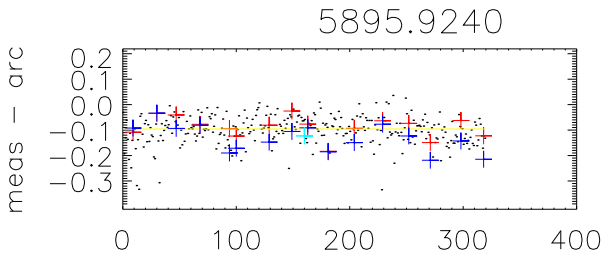

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

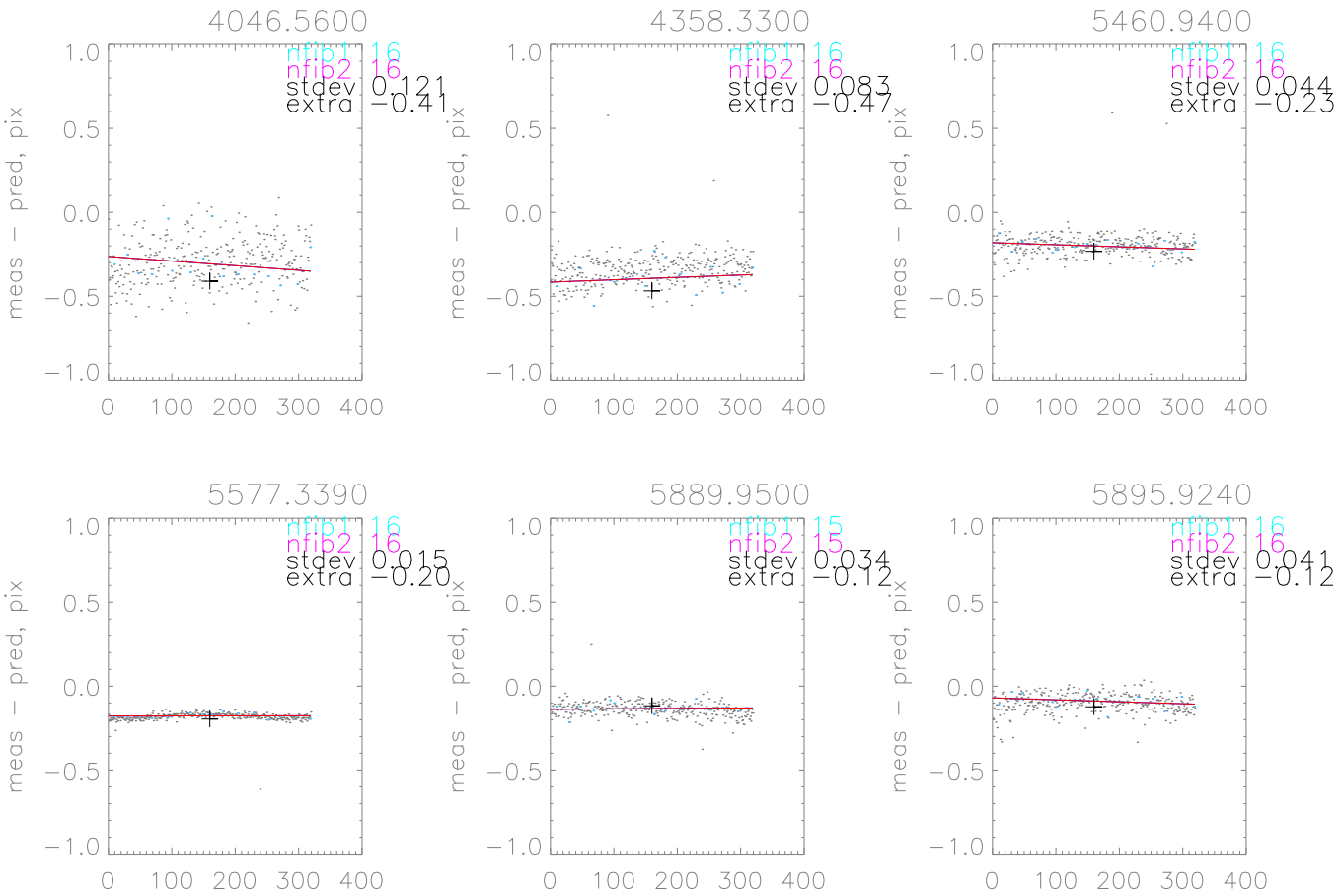

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

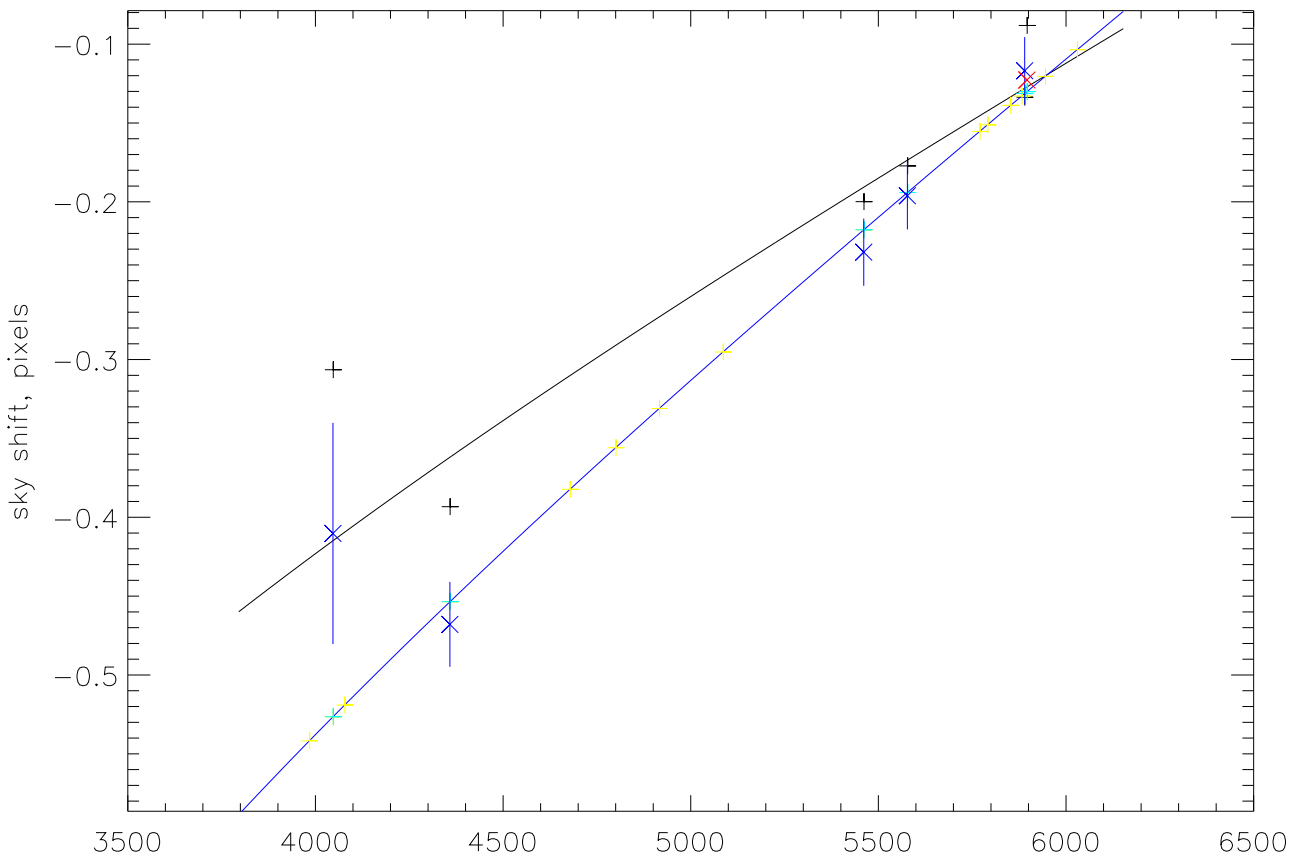

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

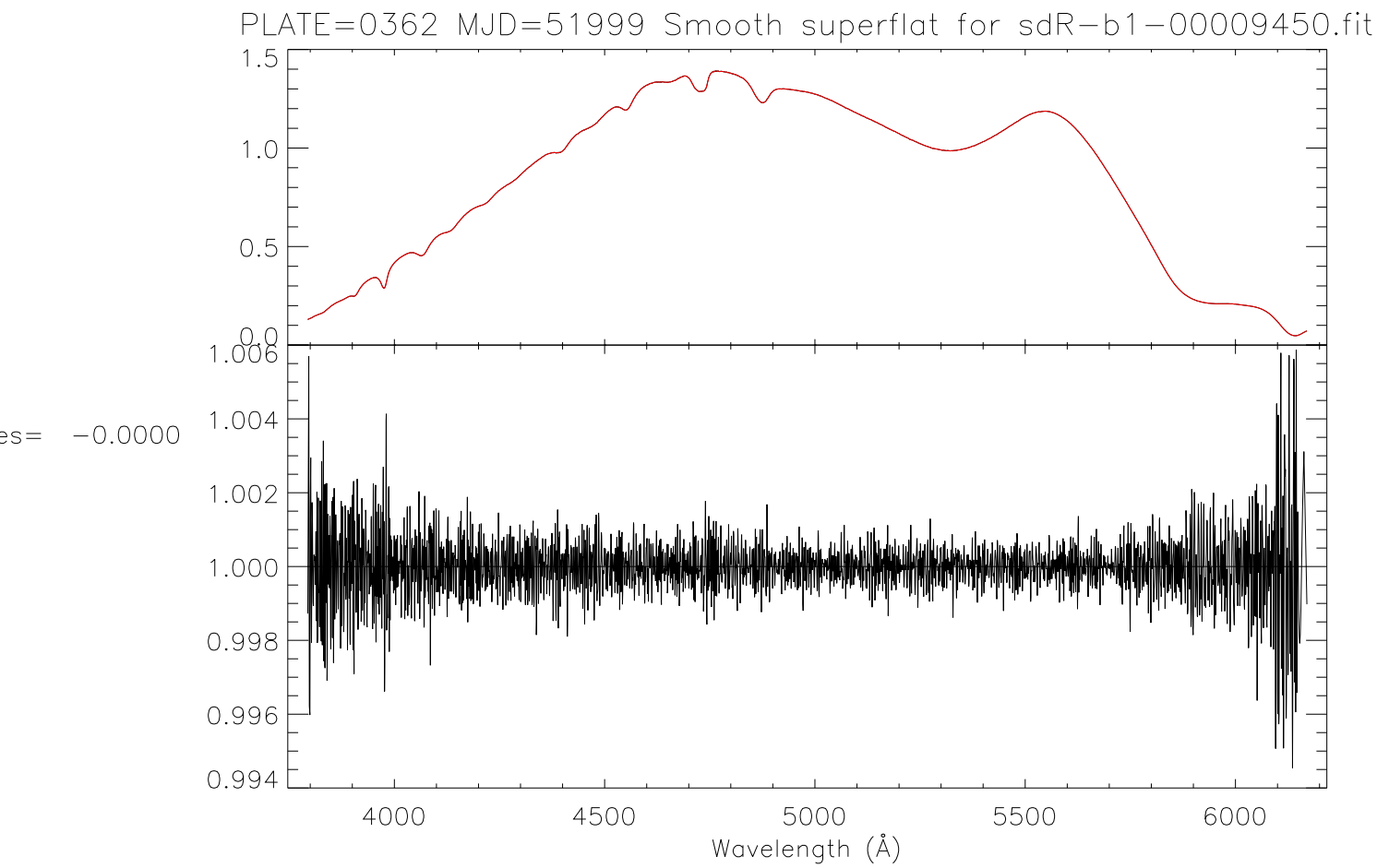

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

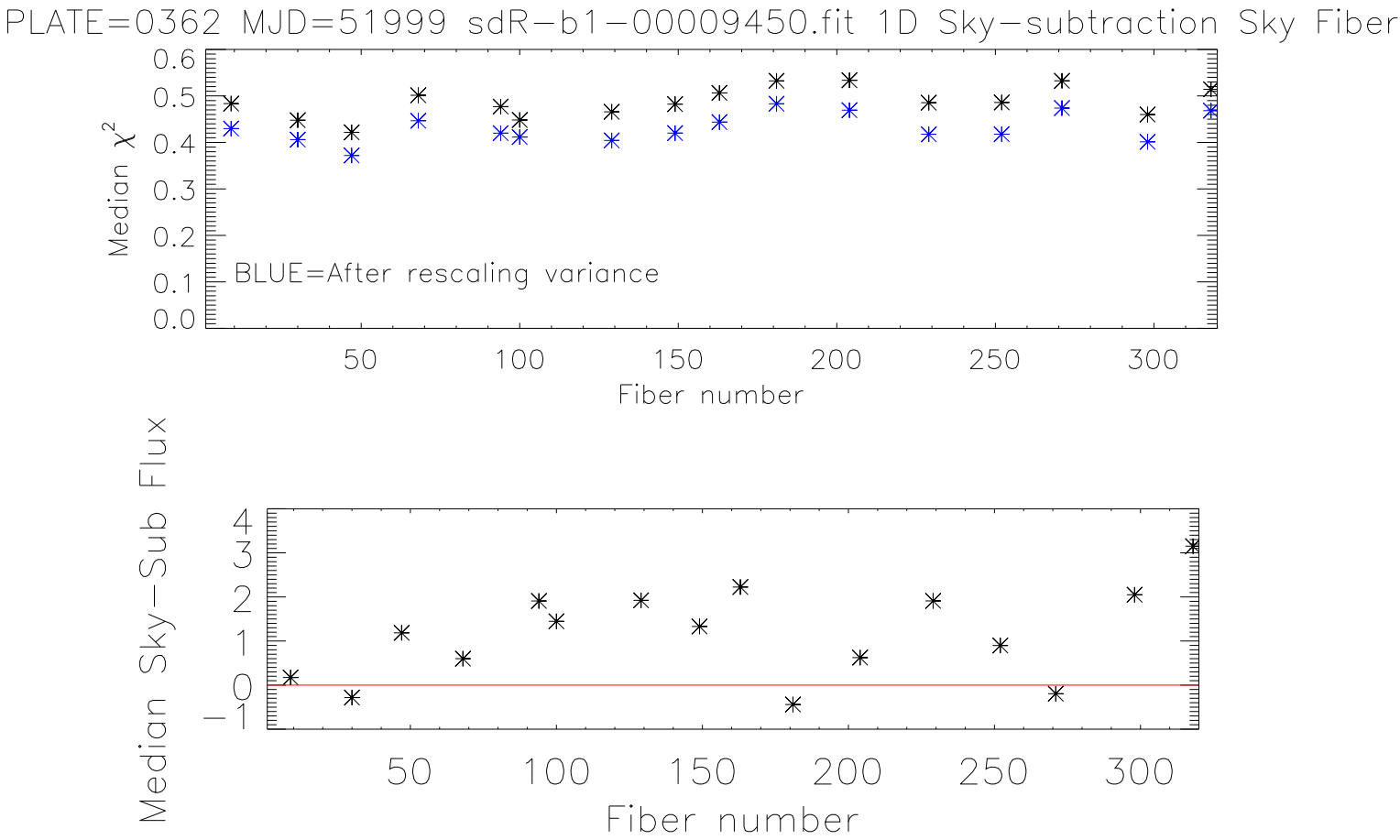

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

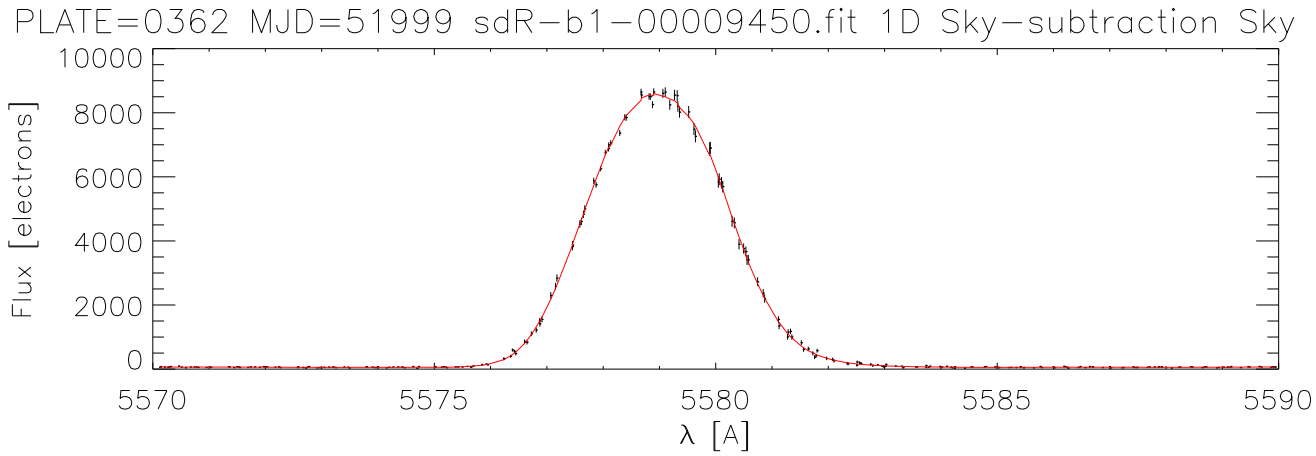

4046.5600
nfib1 16
nfib2 16
stdev 0.121
extra −0.41
4358.3300
nfib1 16
nfib2 16
stdev 0.083
extra −0.47
5460.9400
nfib1 16
nfib2 16
stdev 0.044
extra −0.23
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra −0.20
5889.9500
nfib1 15
nfib2 15
stdev 0.034
extra −0.12
5895.9240
nfib1 16
nfib2 16
stdev 0.041
extra −0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

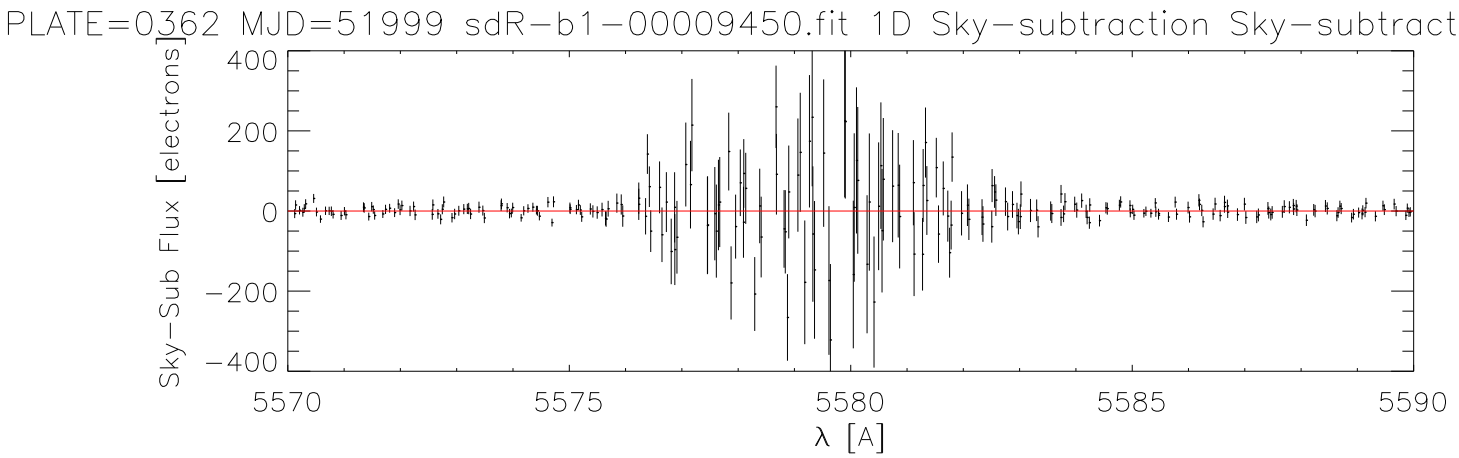

sky shift, pixels
−0.1
−0.2
−0.3
−0.4
−0.5
3500
4000
4500
5000
5500
6000
6500

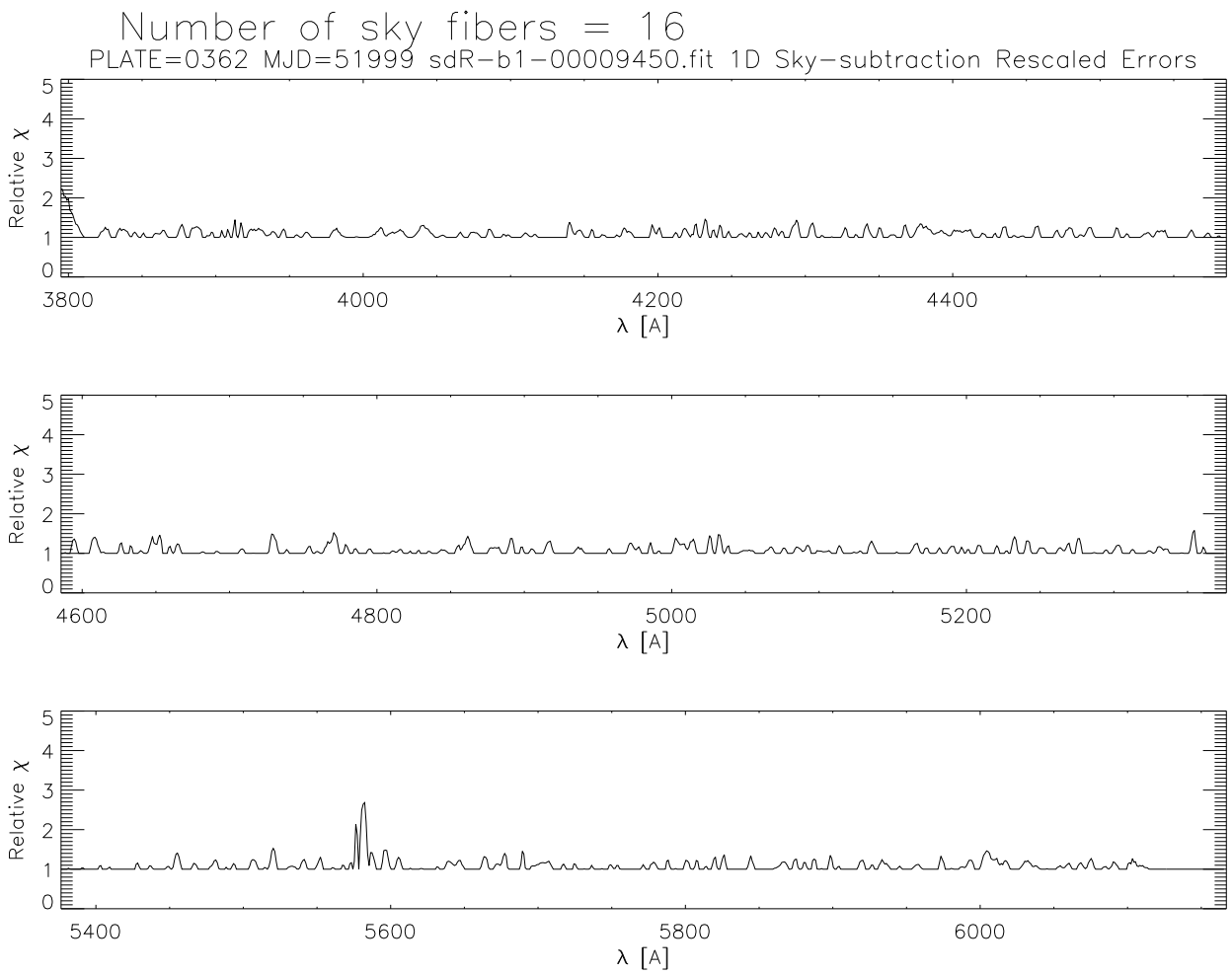

PLATE=0362 MJD=51999 Smooth superflat for sdR-b1-00009450.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

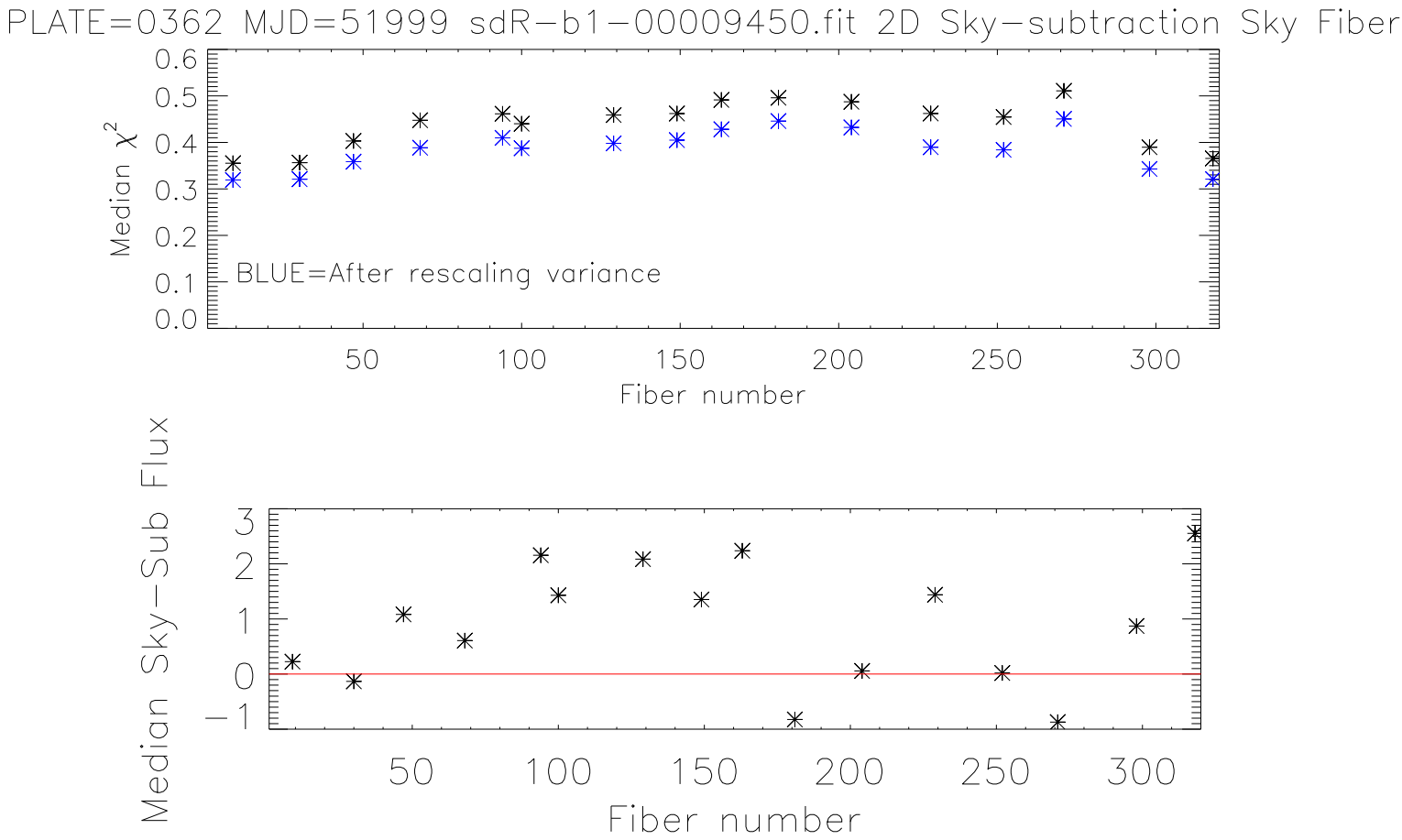
es= −0.0000

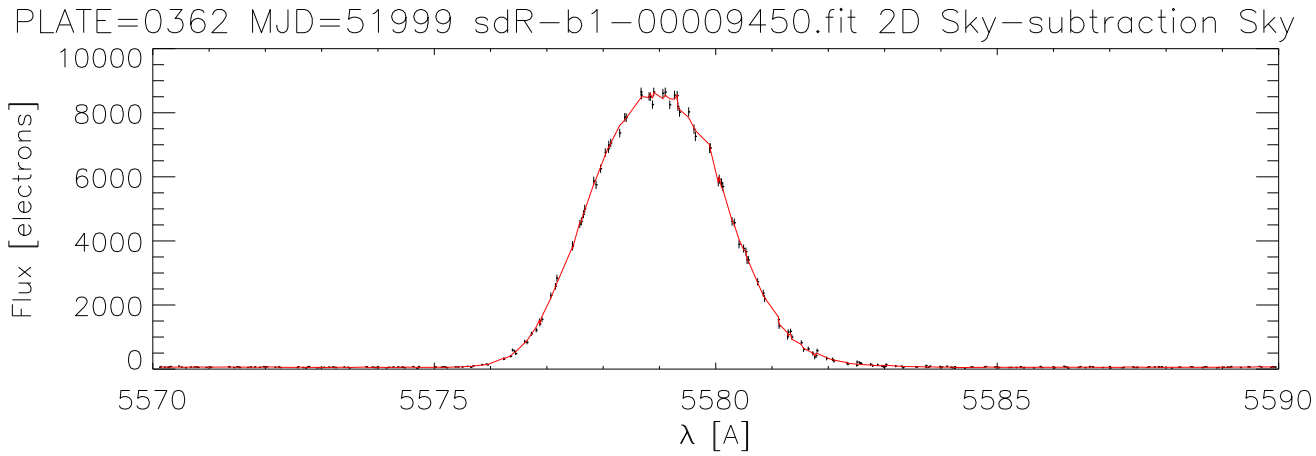

PLATE=0362 MJD=51999 sdR-b1-00009450.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

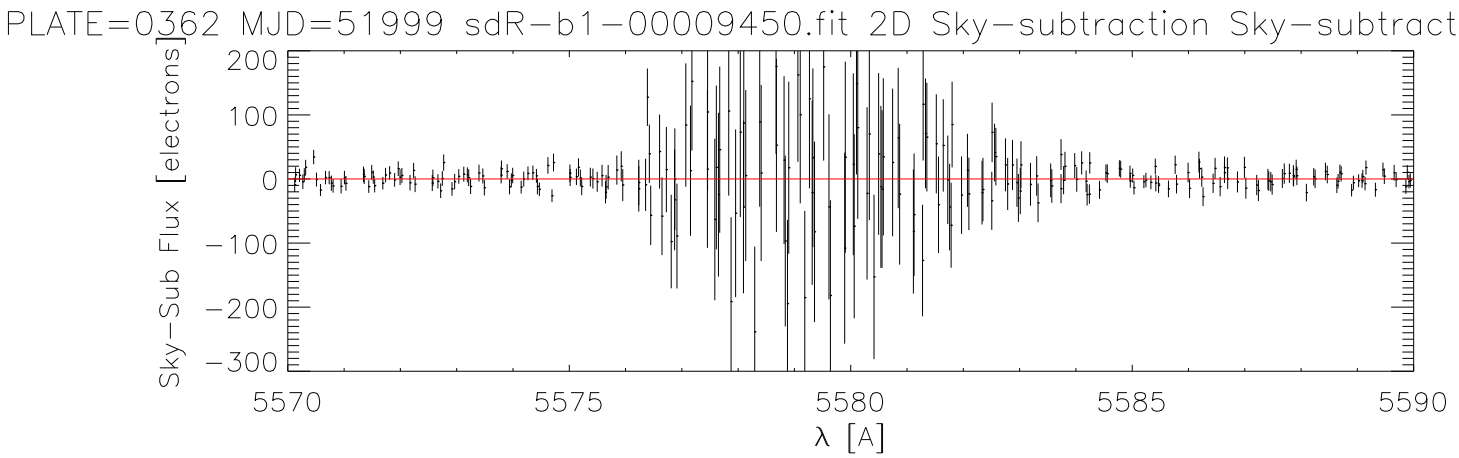

PLATE=0362 MJD=51999 sdR-b1-00009450.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

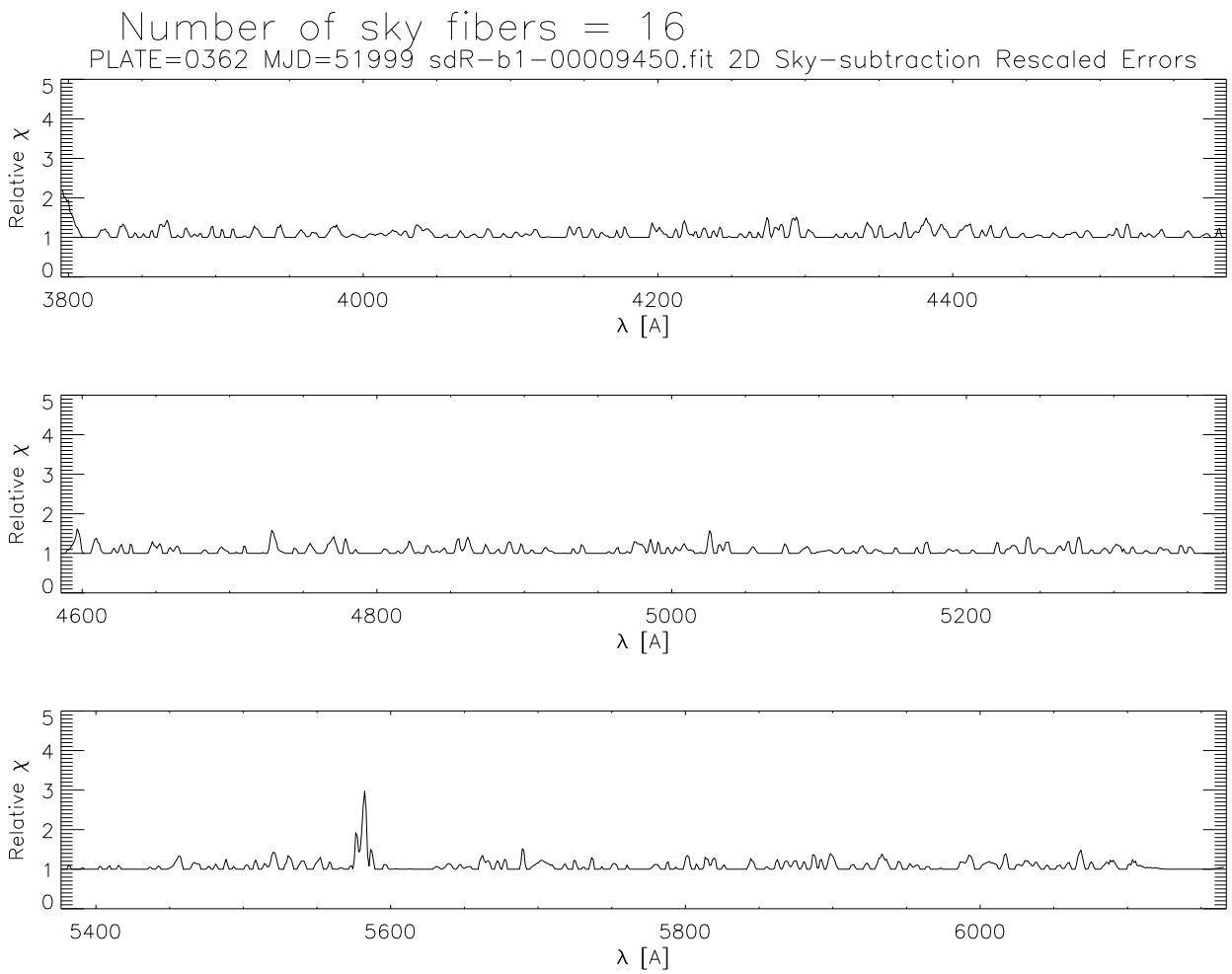

PLATE=0362 MJD=51999 sdR-b1-00009450.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

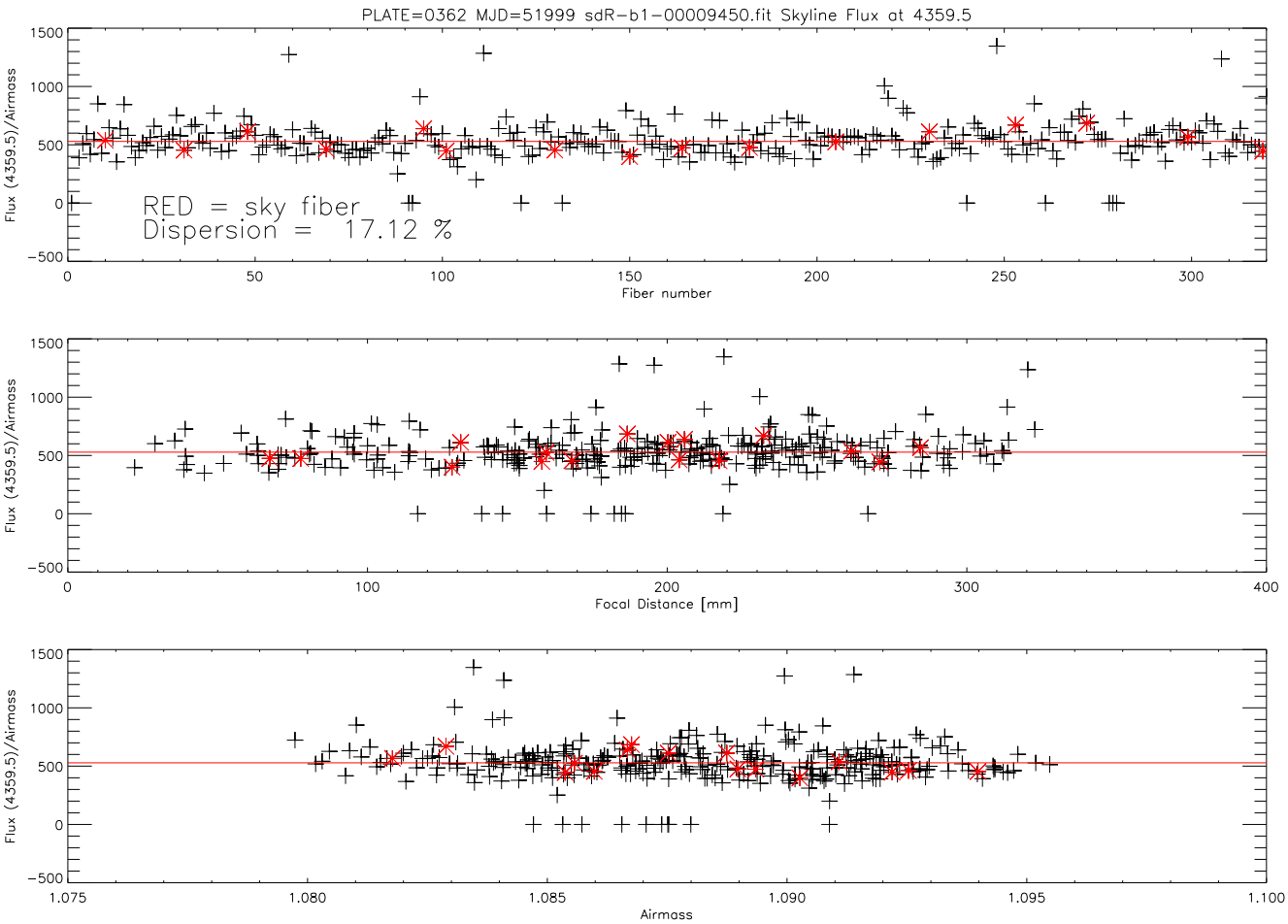

Number of sky fibers = 16
PLATE=0362 MJD=51999 sdR-b1-00009450.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

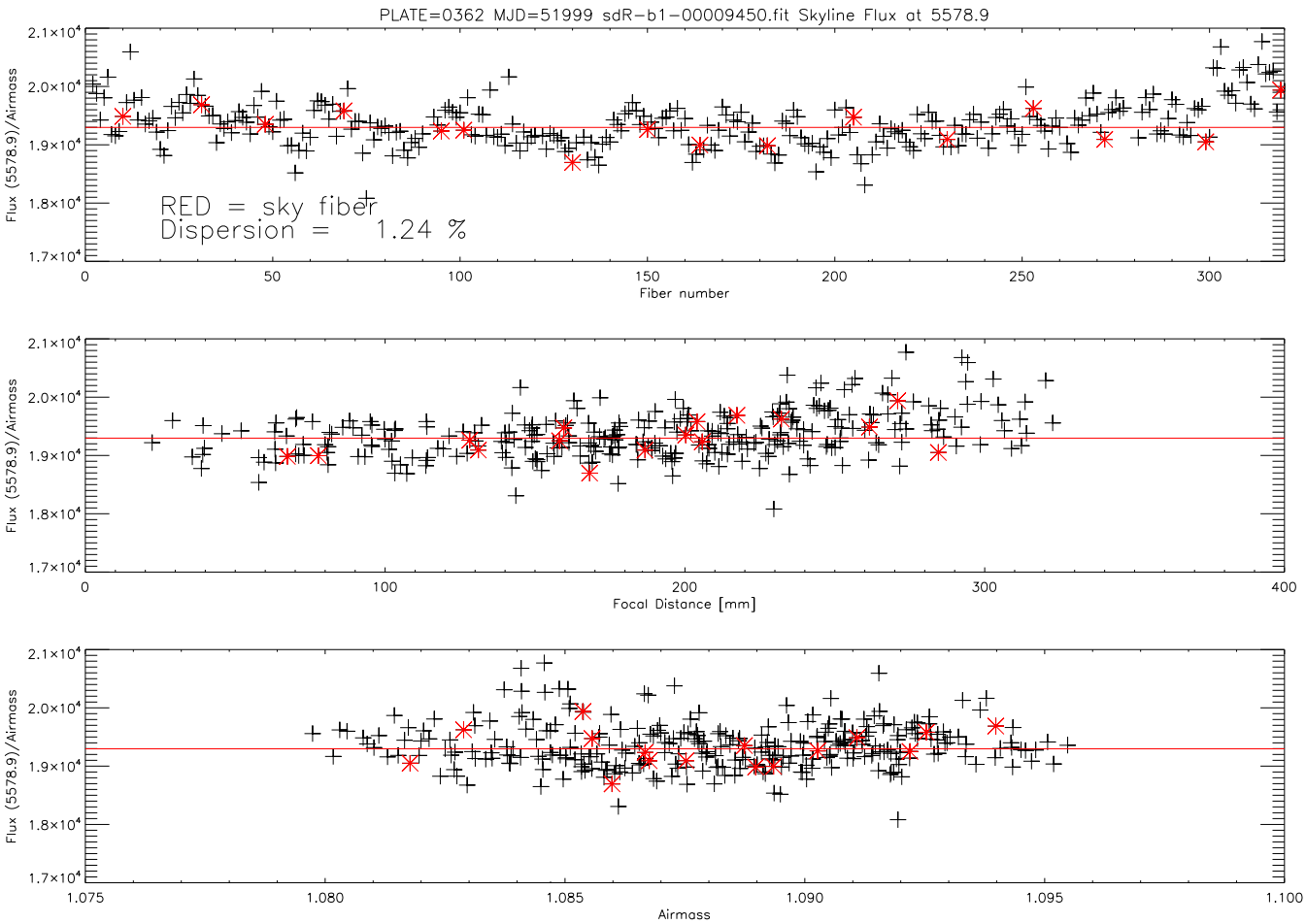

PLATE=0362 MJD=51999 sdR-b1-00009450.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

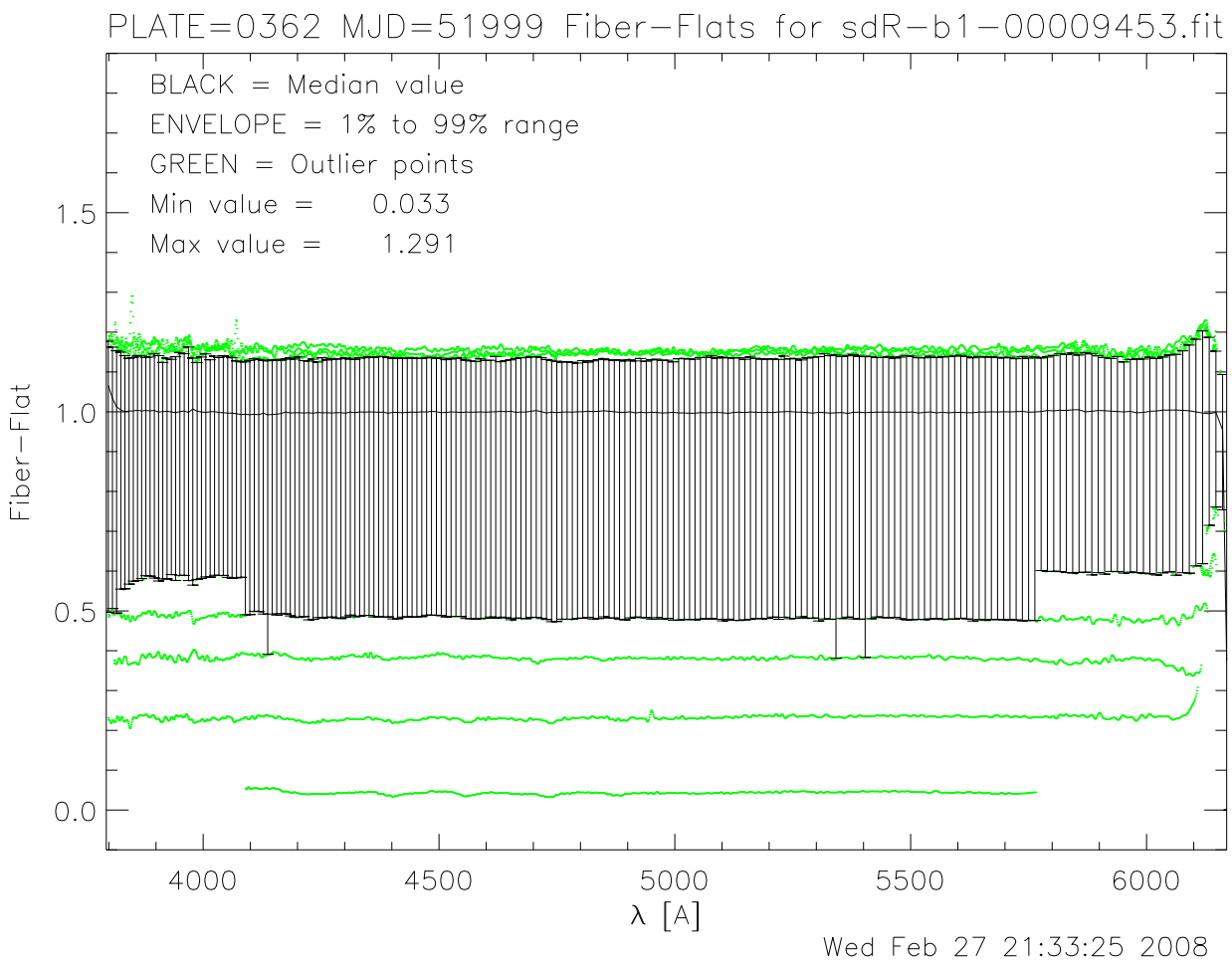

PLATE=0362 MJD=51999 sdR-b1-00009450.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

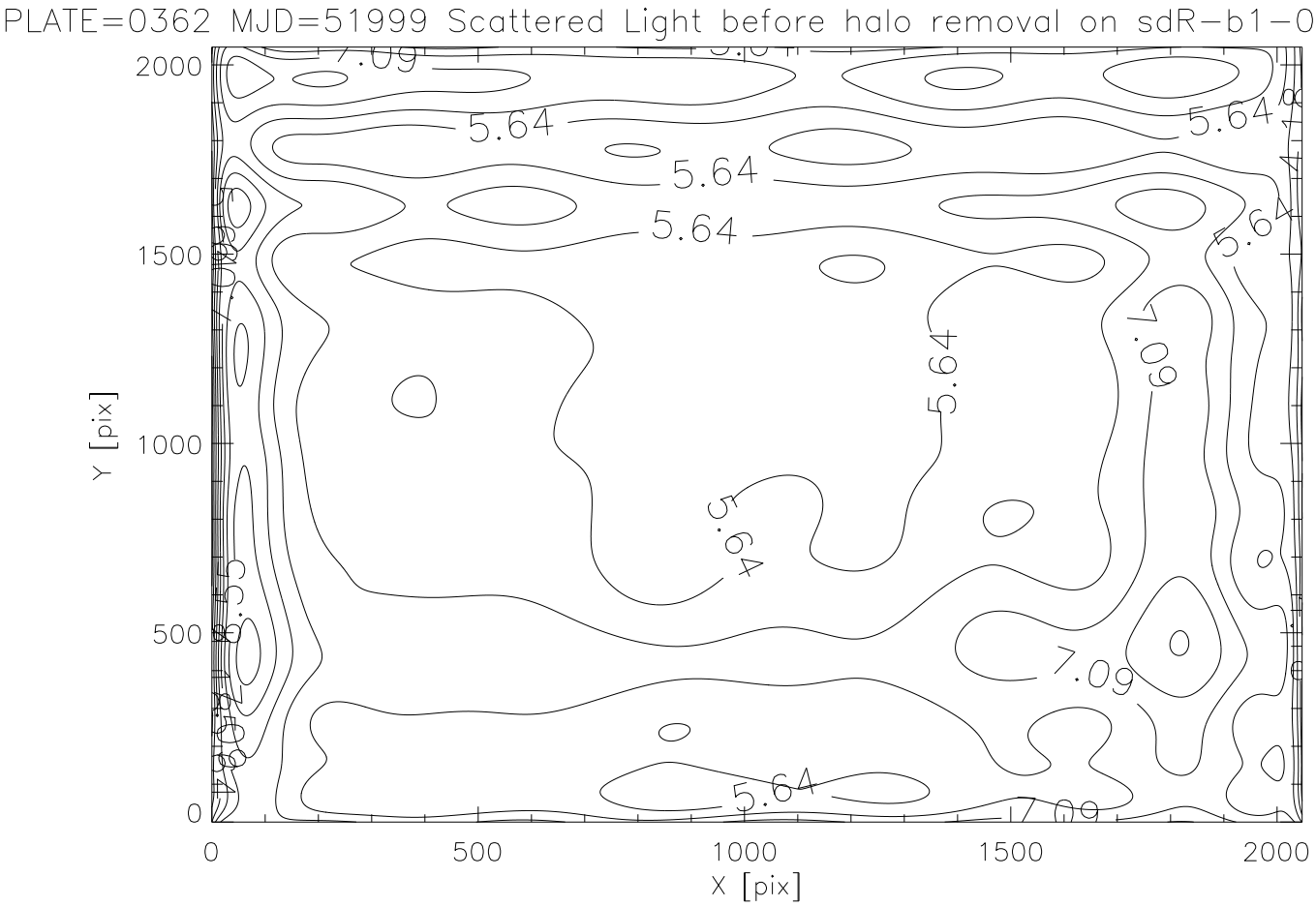

PLATE=0362 MJD=51999 sdR-b1-00009450.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
−100
−200
−300
5570
5575
5580
5585
5590
λ [A]

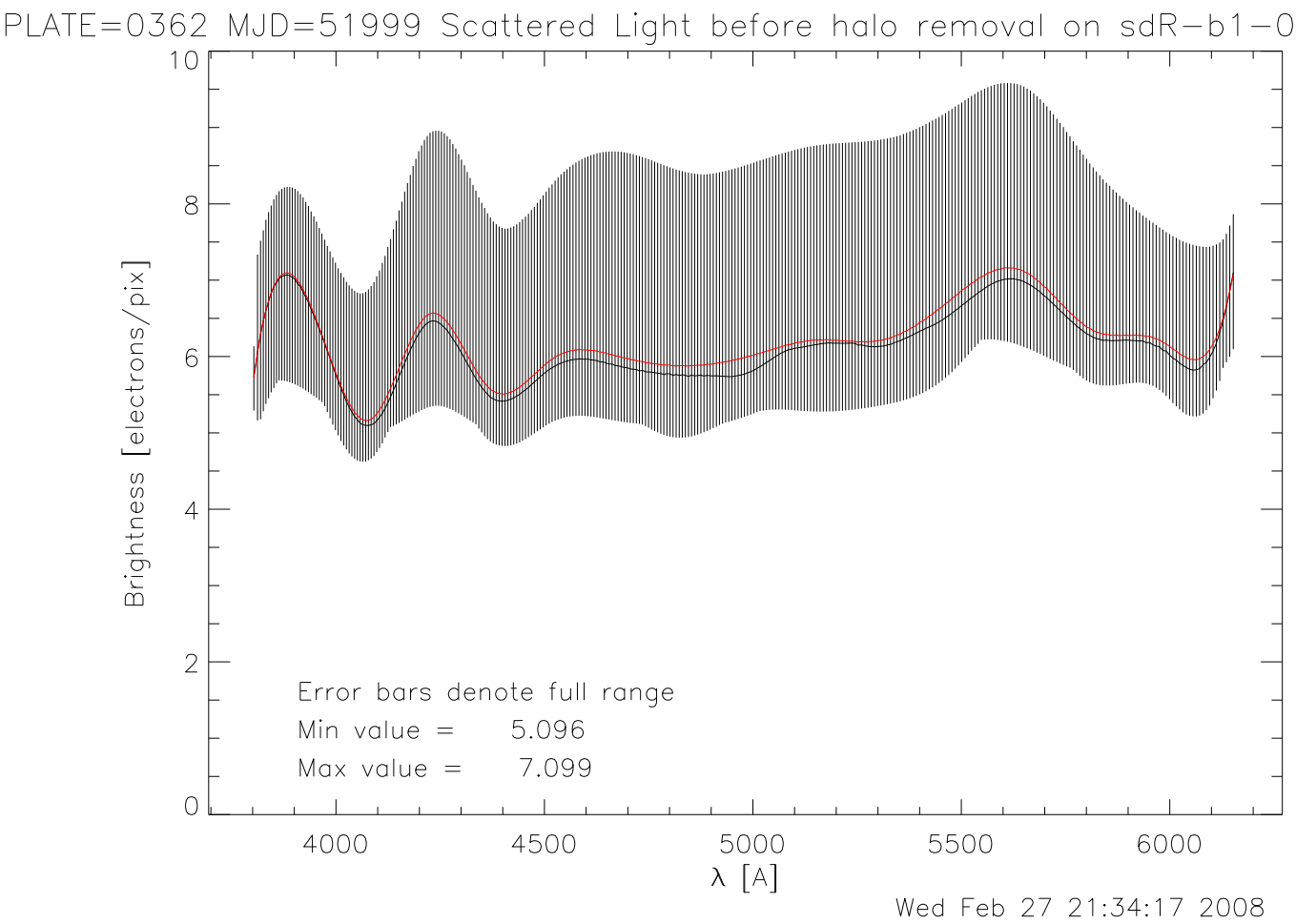

Number of sky fibers = 16
PLATE=0362 MJD=51999 sdR-b1-00009450.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

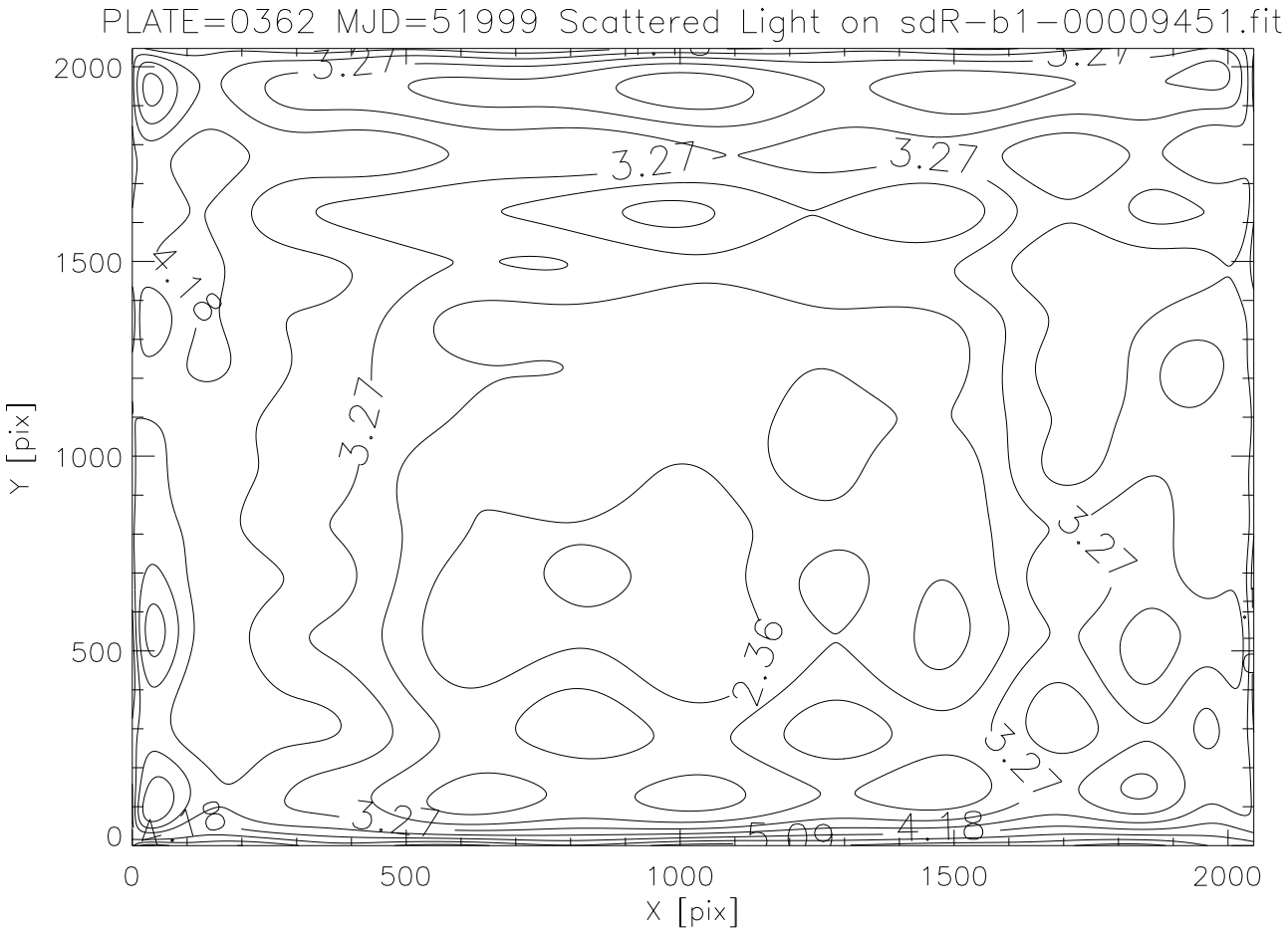

PLATE=0362 MJD=51999 sdR-b1-00009450.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 17.12 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

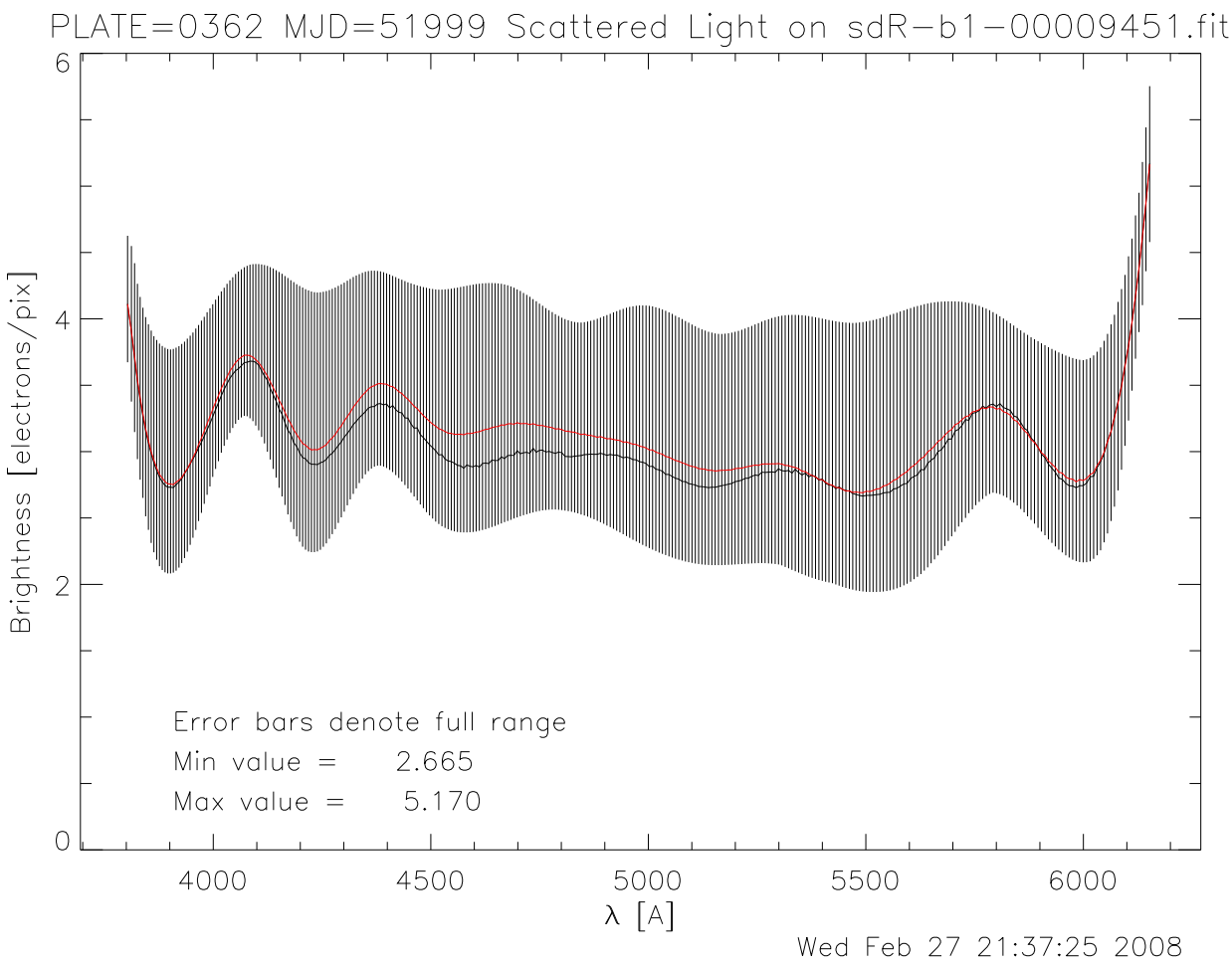

PLATE=0362 MJD=51999 sdR-b1-00009450.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
2.1×10^4
2.0×10^4
1.9×10^4
1.8×10^4
1.7×10^4
RED = sky fiber
Dispersion = 1.24 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
2.1×10^4
2.0×10^4
1.9×10^4
1.8×10^4
1.7×10^4
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
2.1×10^4
2.0×10^4
1.9×10^4
1.8×10^4
1.7×10^4
1.075
1.080
1.085
1.090
1.095
1.100
Airmass

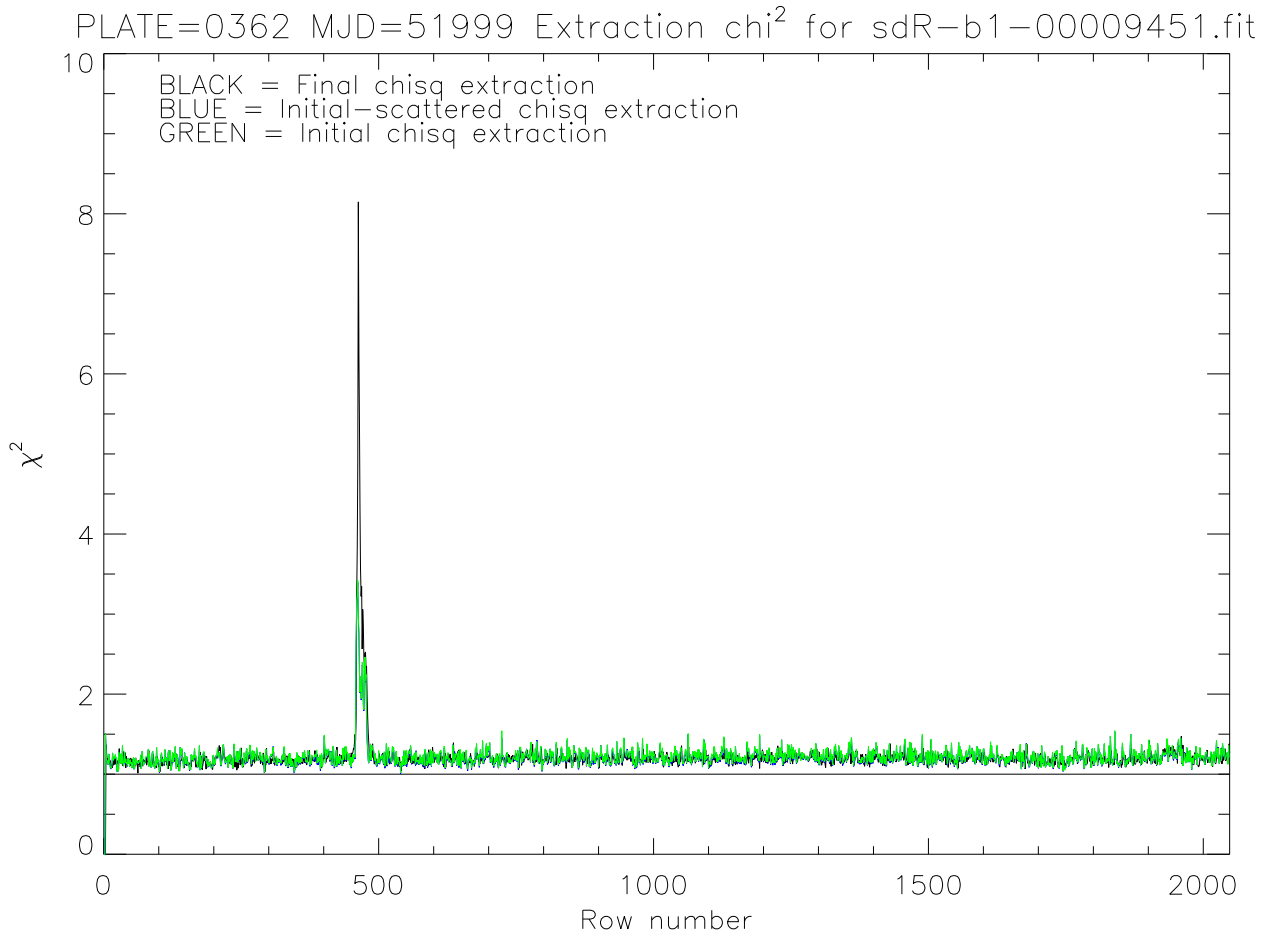

PLATE=0362 MJD=51999 Fiber-Flats for sdR-b1-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.033
Max value = 1.291
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:33:25 2008

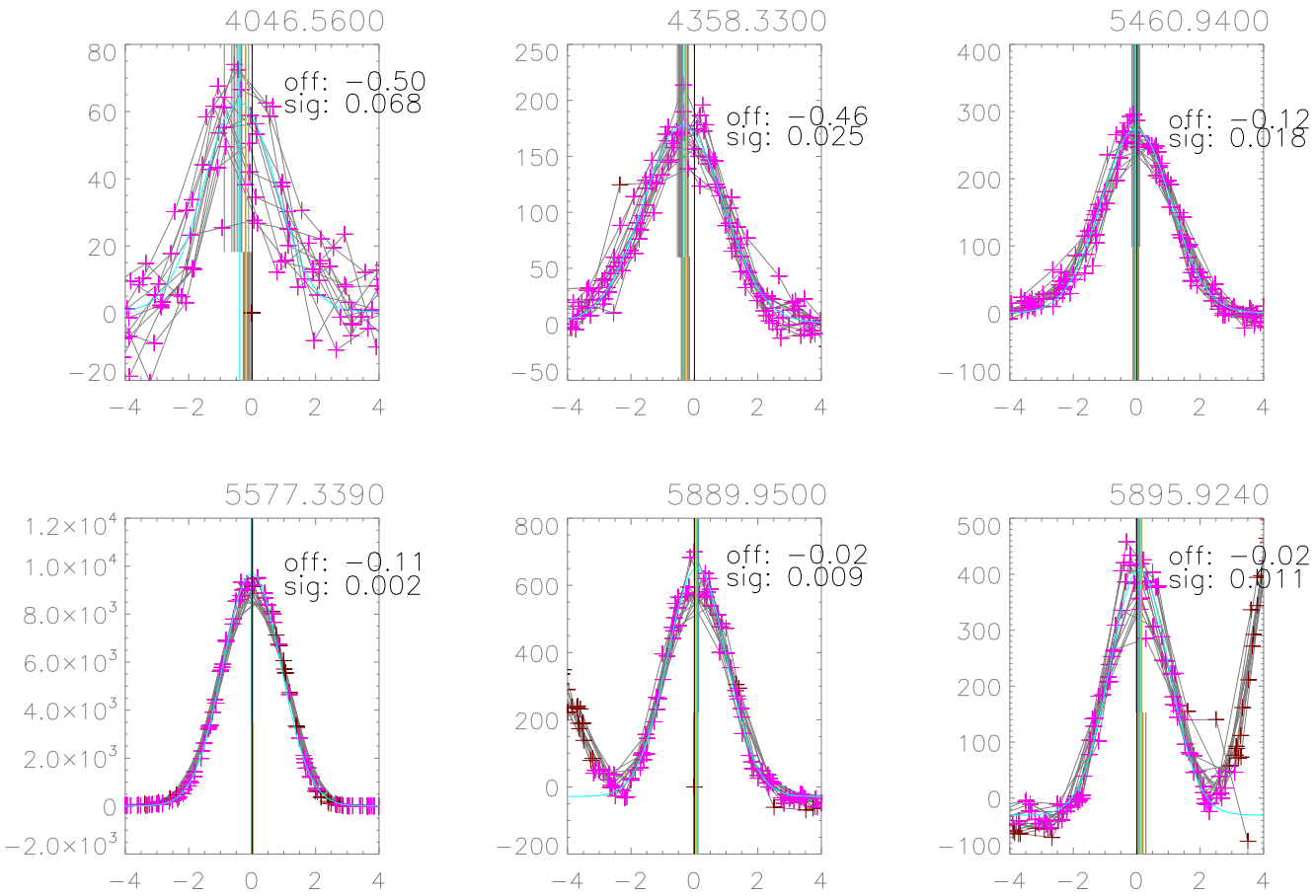

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR−b1−00009451.f
5.64
7.09
Y [pix]
X [pix]
0
500
1000
1500
2000

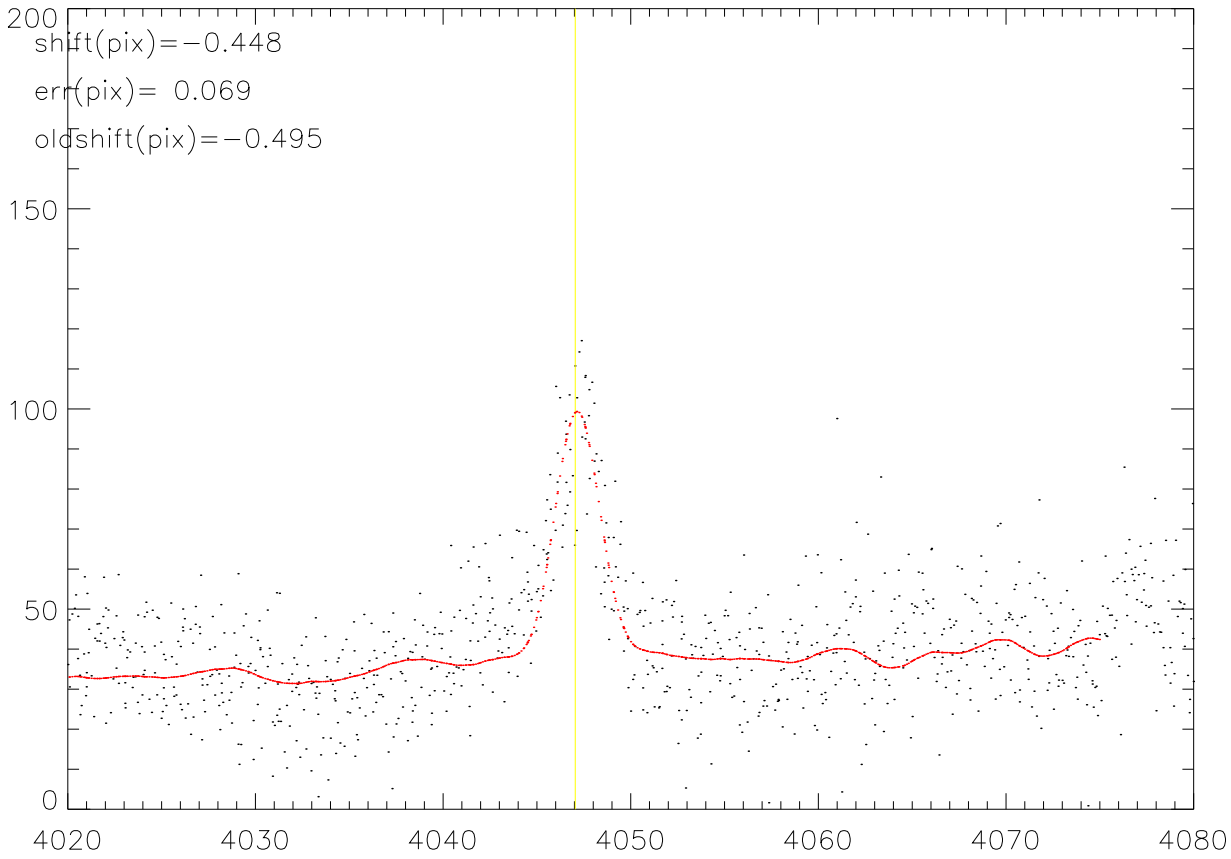

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-b1-00009451.f
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.096
Max value = 7.099
Wed Feb 27 21:34:17 2008

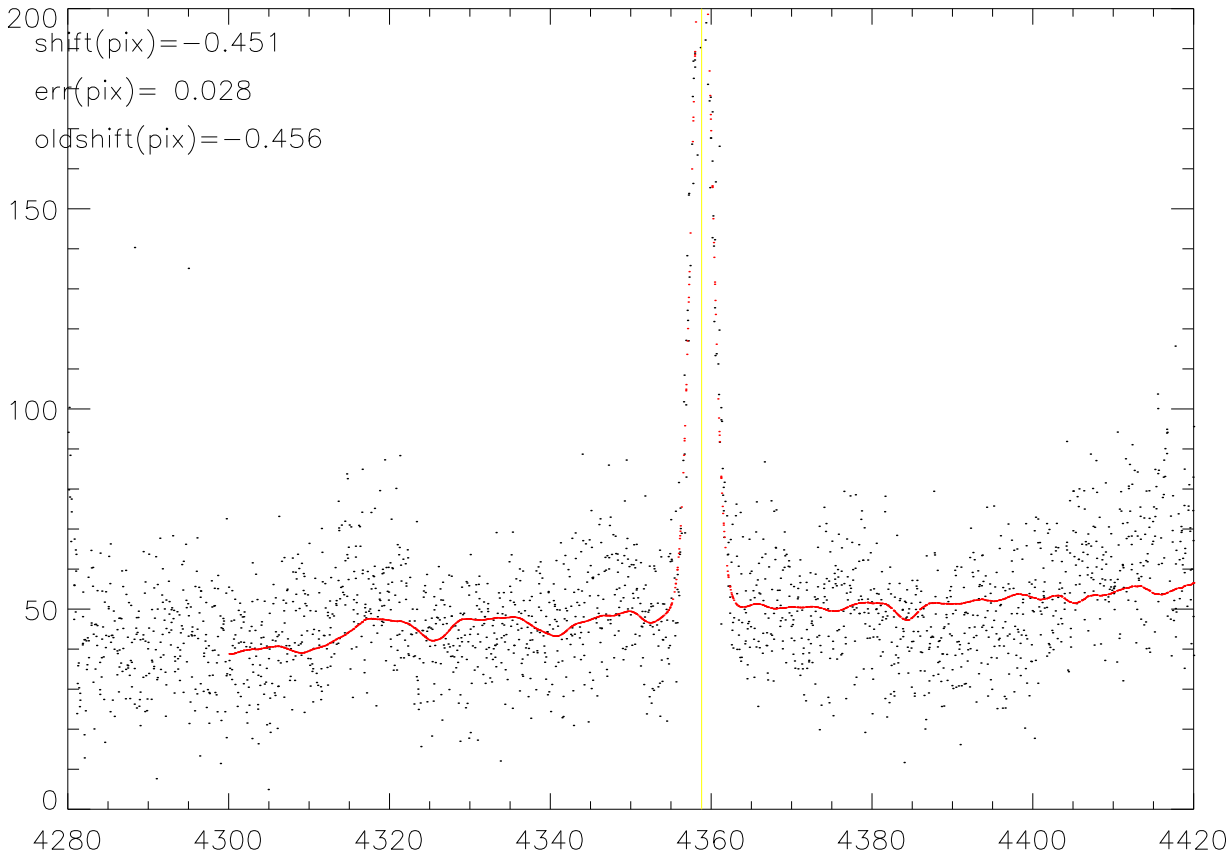

PLATE=0362 MJD=51999 Scattered Light on sdR-b1-00009451.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.27
4.18
2.36
5.09

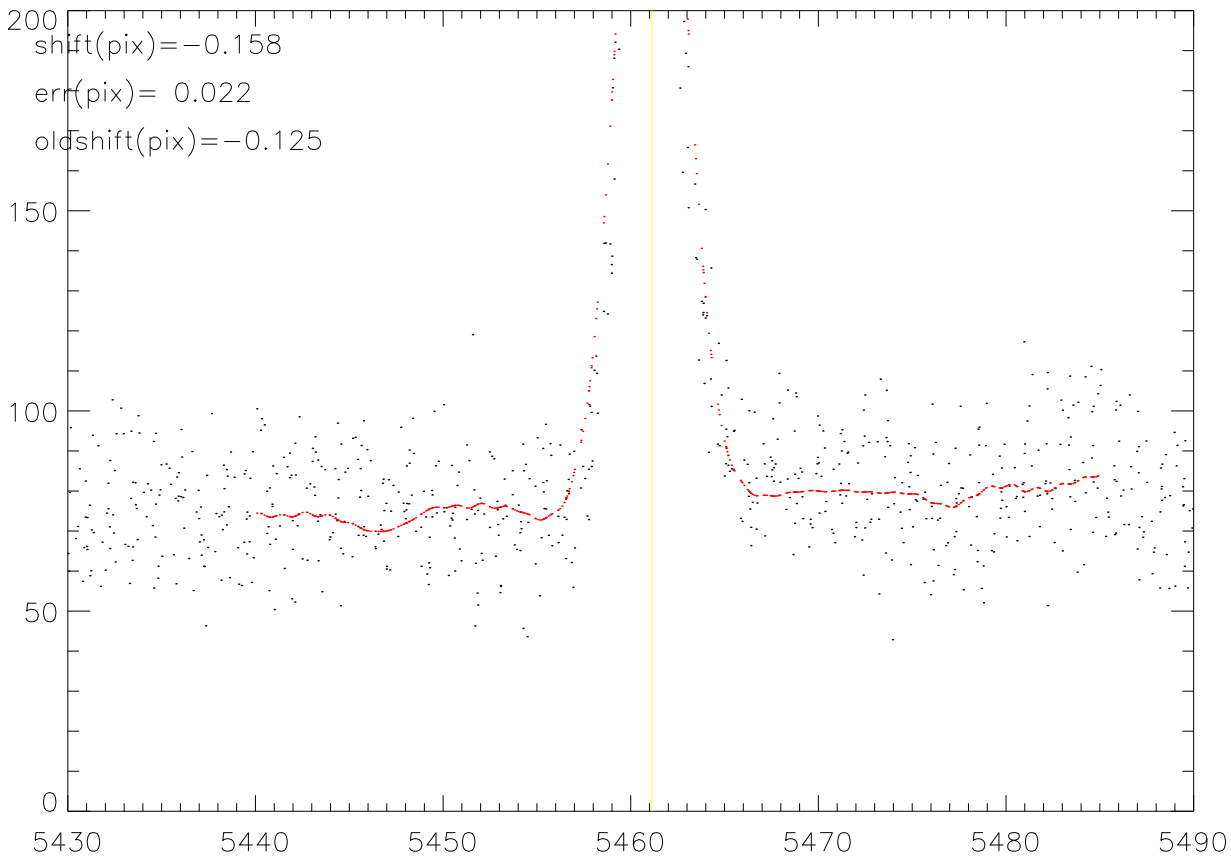

PLATE=0362 MJD=51999 Scattered Light on sdR-b1-00009451.fit
Brightness [electrons/pix]
0
2
4
6
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 2.665
Max value = 5.170
Wed Feb 27 21:37:25 2008

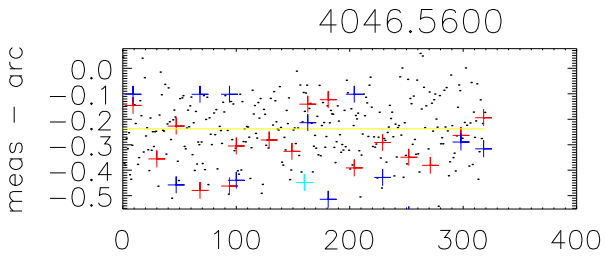

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-b1-00009451.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
0
500
1000
1500
2000
Row number

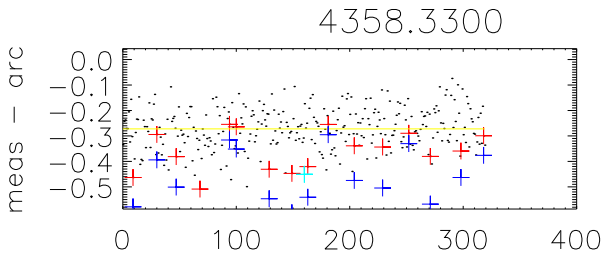

4046.5600
off: −0.50
sig: 0.068
4358.3300
off: −0.46
sig: 0.025
5460.9400
off: −0.12
sig: 0.018
5577.3390
off: −0.11
sig: 0.002
5889.9500
off: −0.02
sig: 0.009
5895.9240
off: −0.02
sig: 0.011

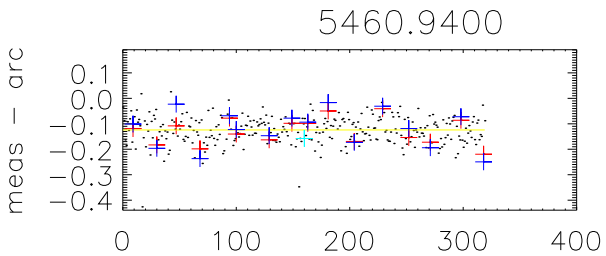

shift(pix)=−0.448
err(pix)= 0.069
oldshift(pix)=−0.495
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

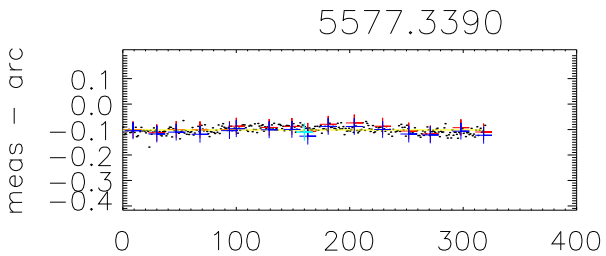

shift(pix)=−0.451
err(pix)= 0.028
oldshift(pix)=−0.456
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

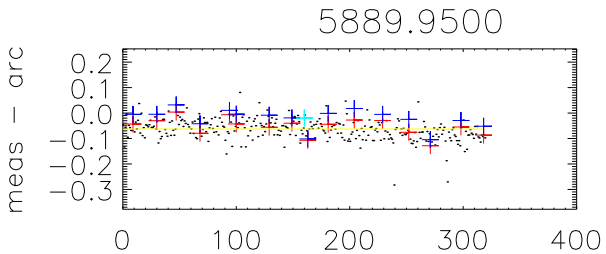

shift(pix)=−0.158
err(pix)= 0.022
oldshift(pix)=−0.125
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

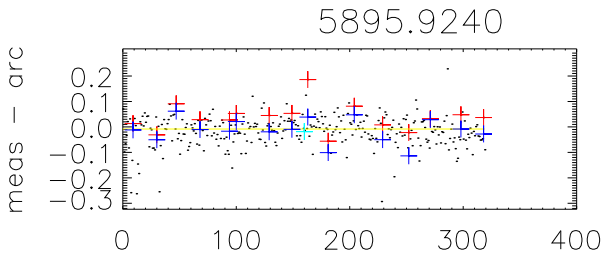

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

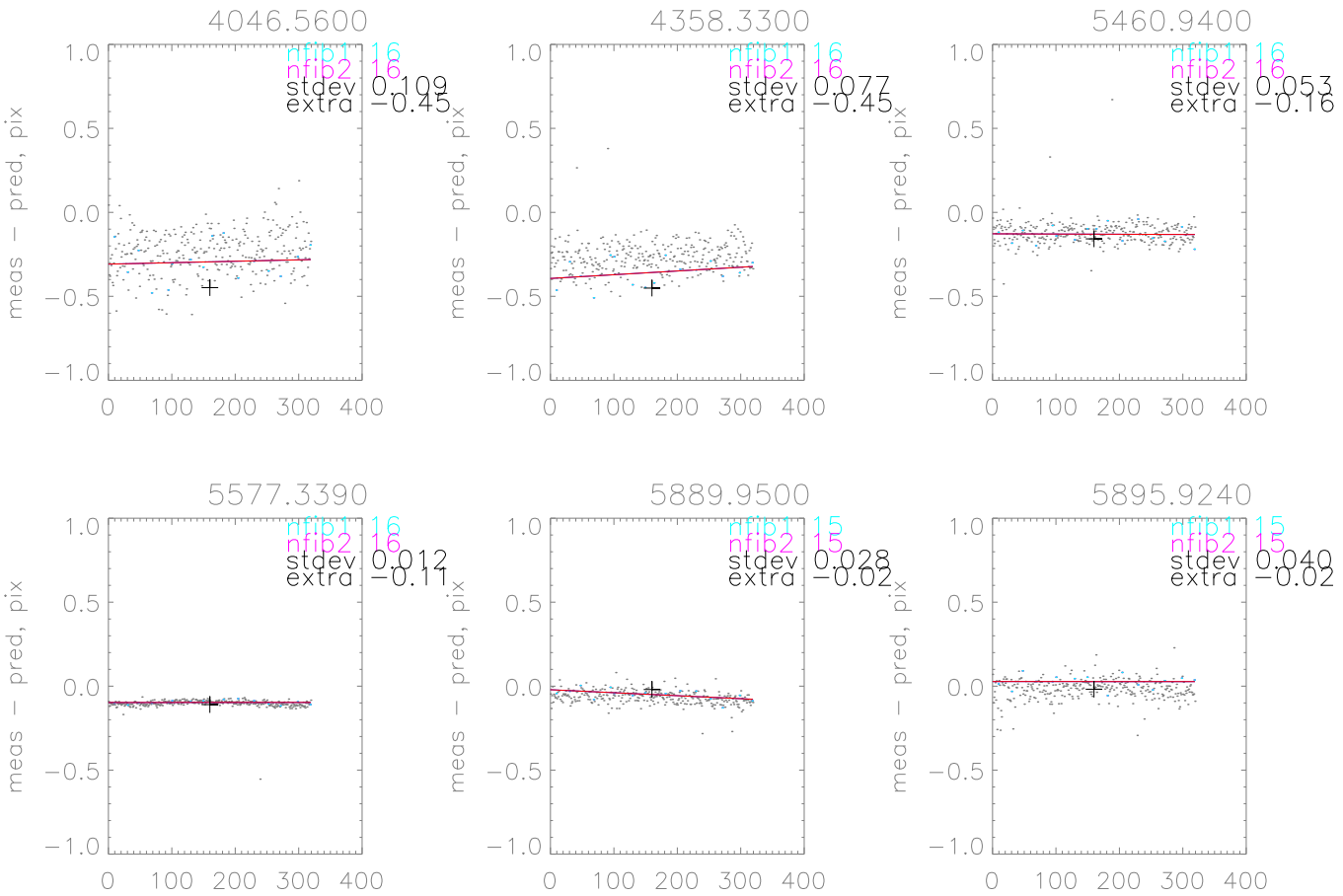

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

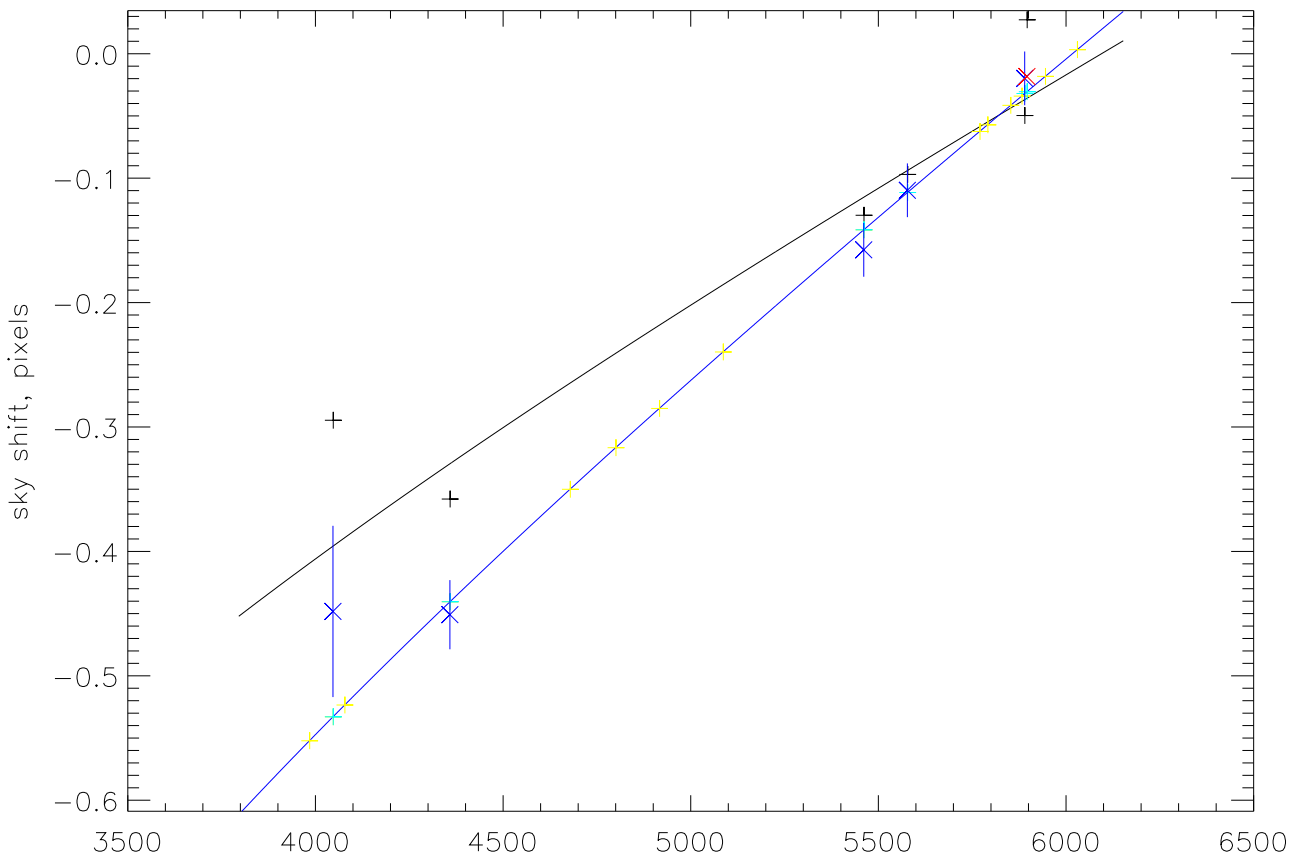

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

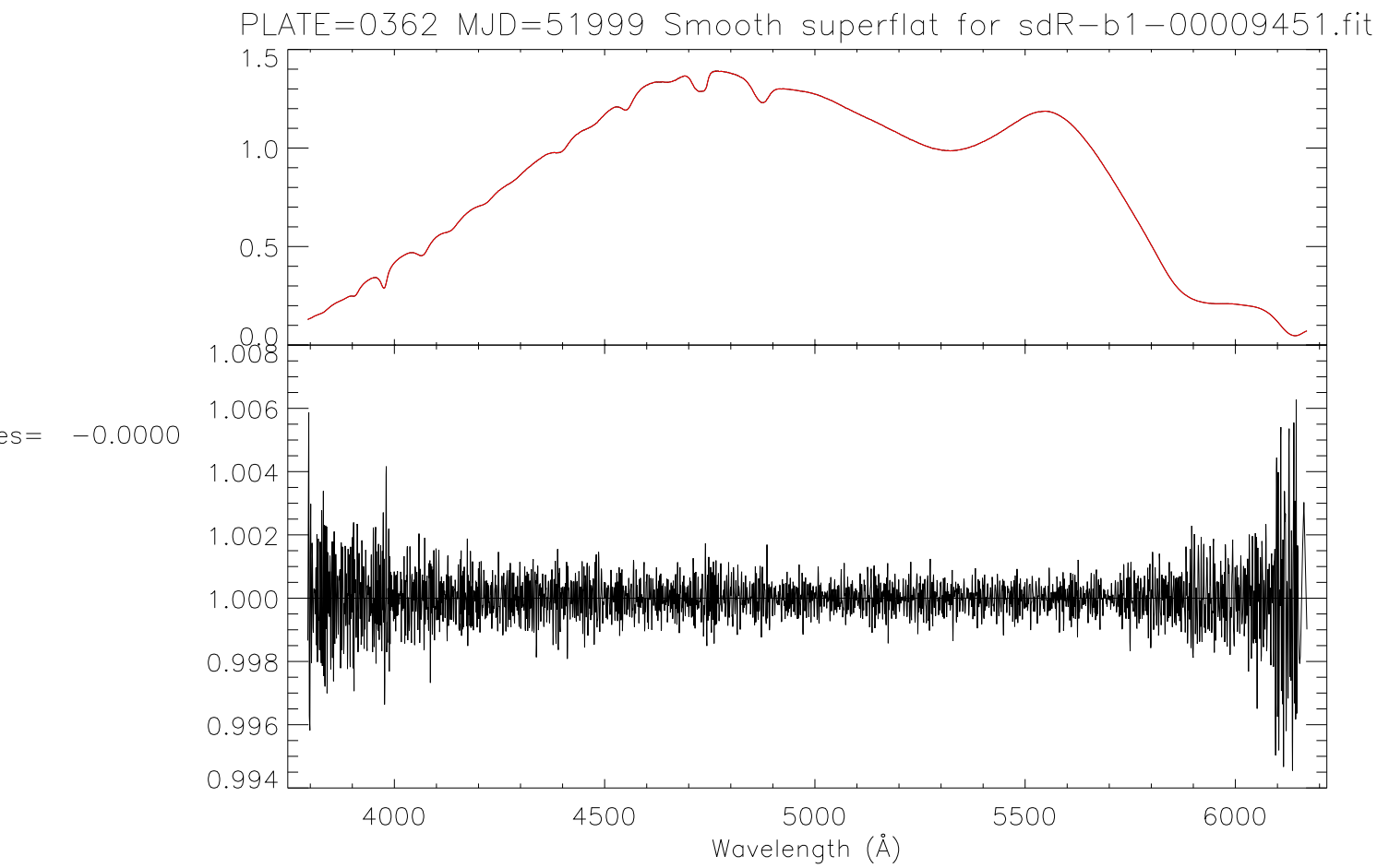

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

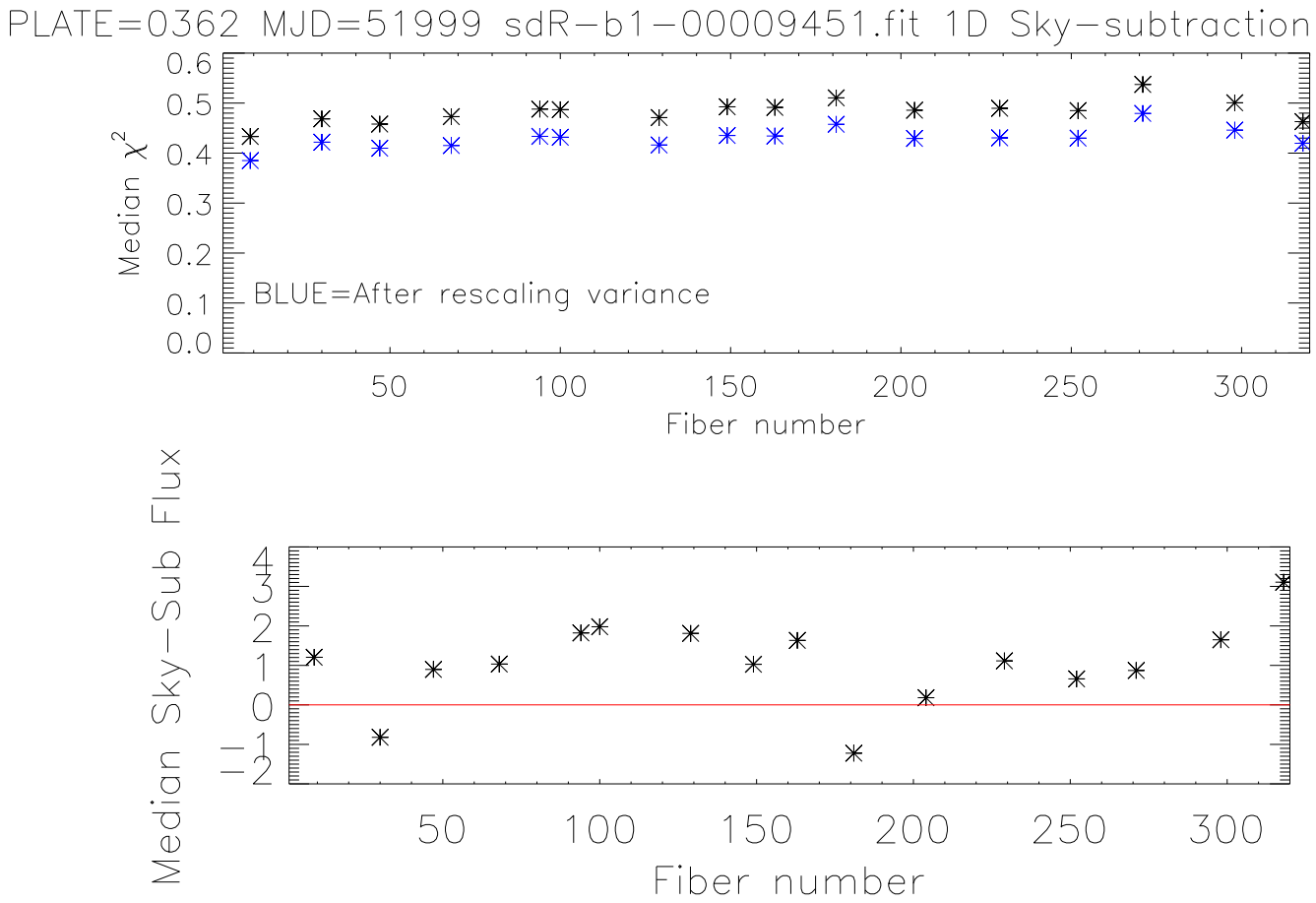

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

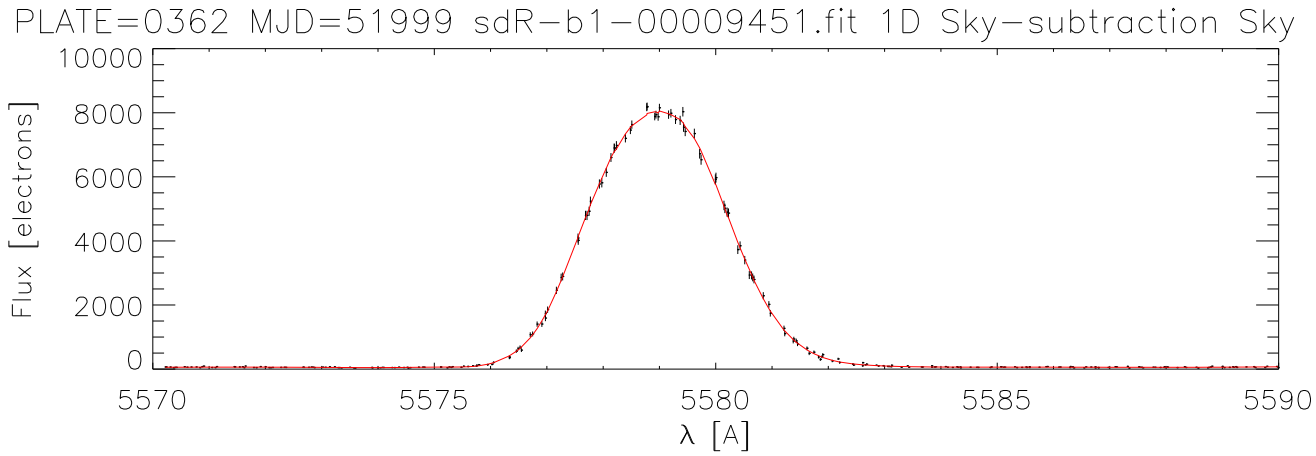

4046.5600
nfib1 16
nfib2 16
stdev 0.109
extra −0.45
4358.3300
nfib1 16
nfib2 16
stdev 0.077
extra −0.45
5460.9400
nfib1 16
nfib2 16
stdev 0.053
extra −0.16
5577.3390
nfib1 16
nfib2 16
stdev 0.012
extra −0.11
5889.9500
nfib1 15
nfib2 15
stdev 0.028
extra −0.02
5895.9240
nfib1 15
nfib2 15
stdev 0.040
extra −0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

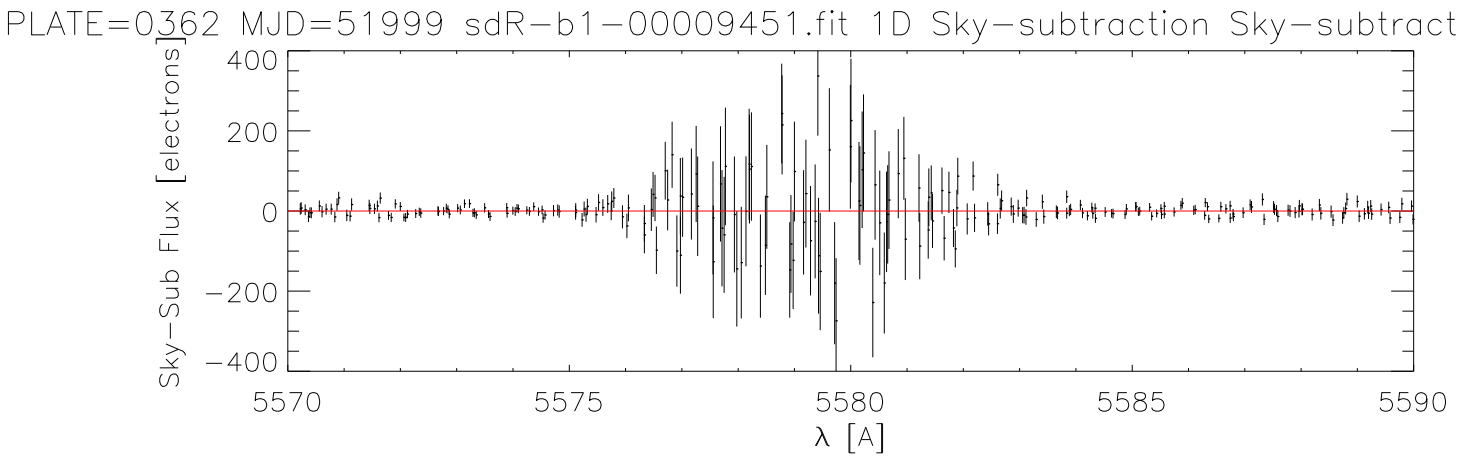

sky shift, pixels
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
3500
4000
4500
5000
5500
6000
6500

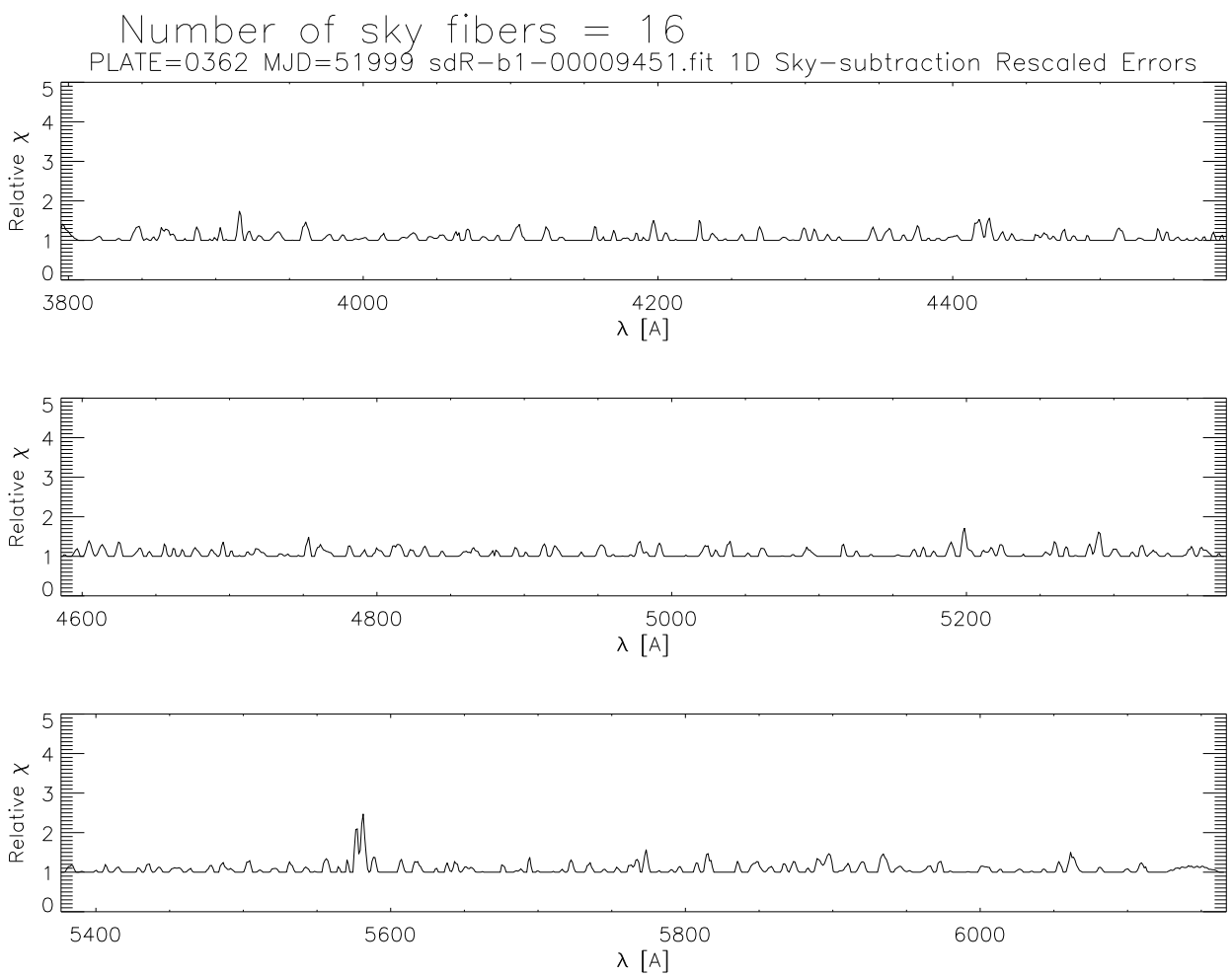

PLATE=0362 MJD=51999 Smooth superflat for sdR-b1-00009451.fit
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

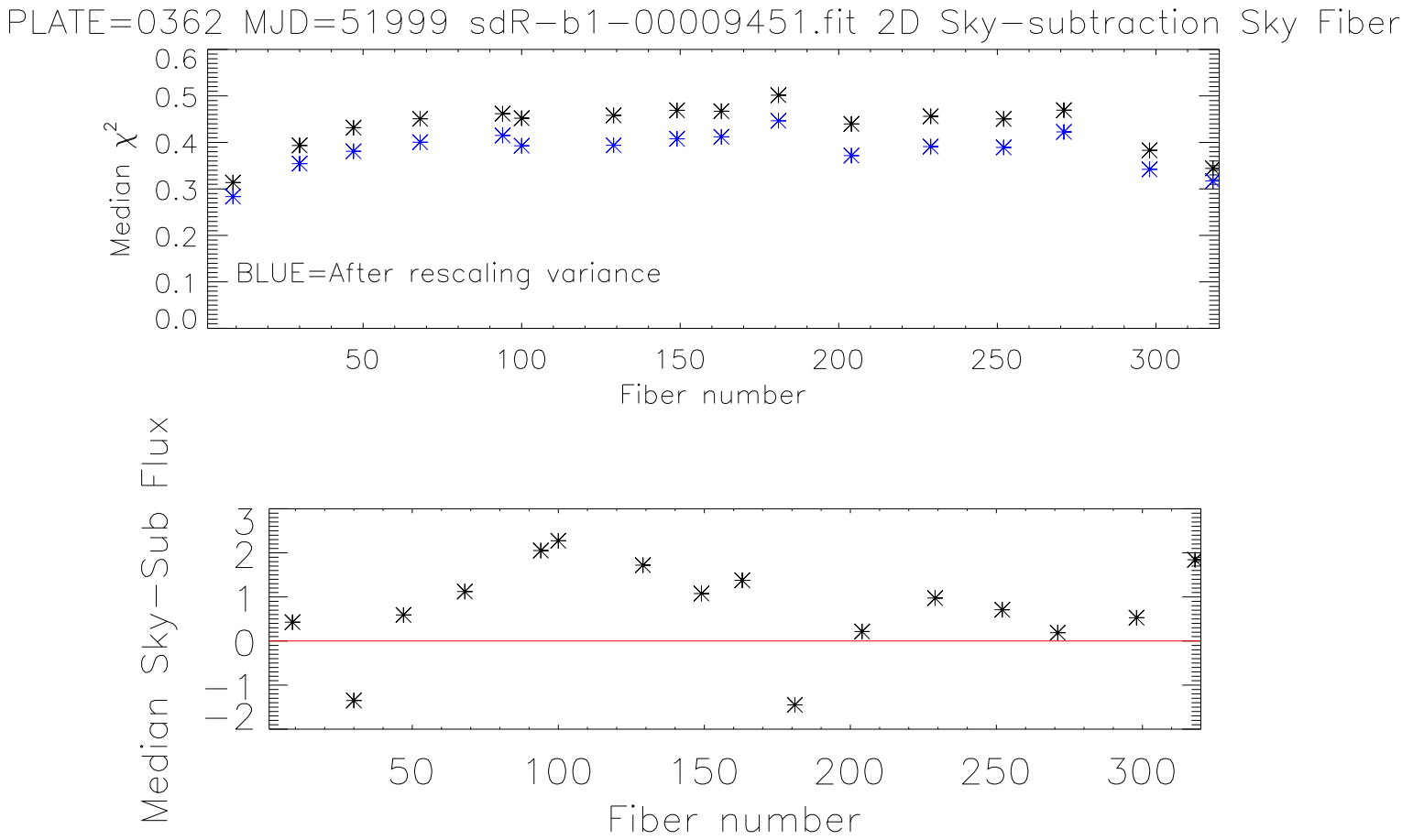
es= −0.0000

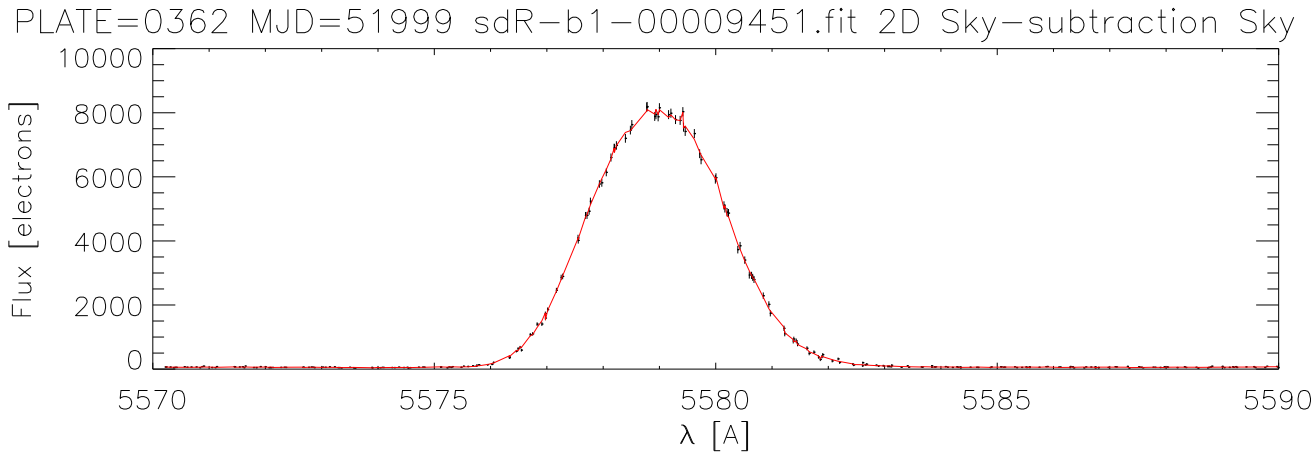

PLATE=0362 MJD=51999 sdR-b1-00009451.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

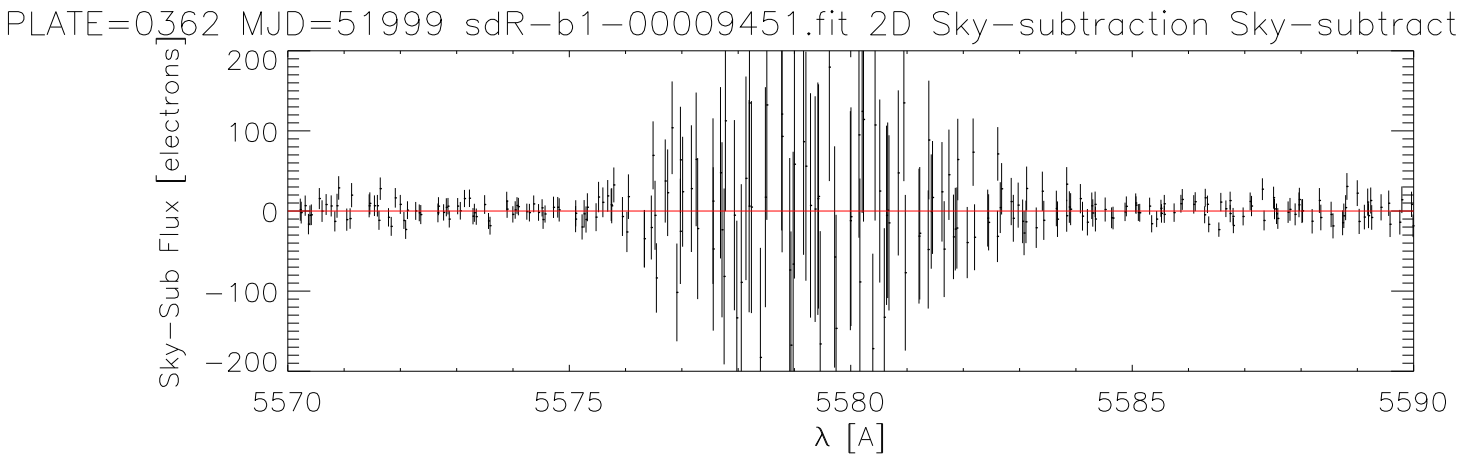

PLATE=0362 MJD=51999 sdR-b1-00009451.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

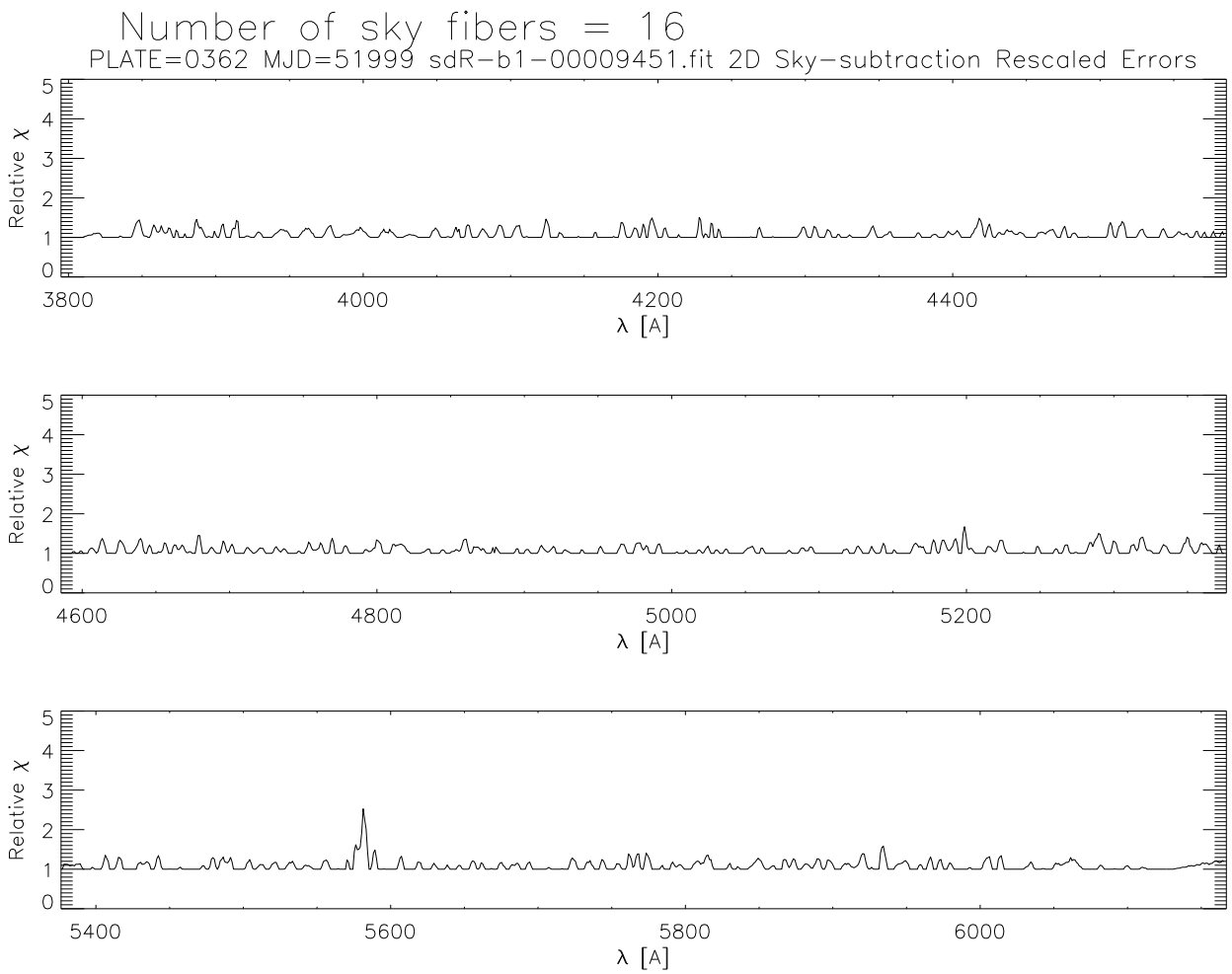

PLATE=0362 MJD=51999 sdR-b1-00009451.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

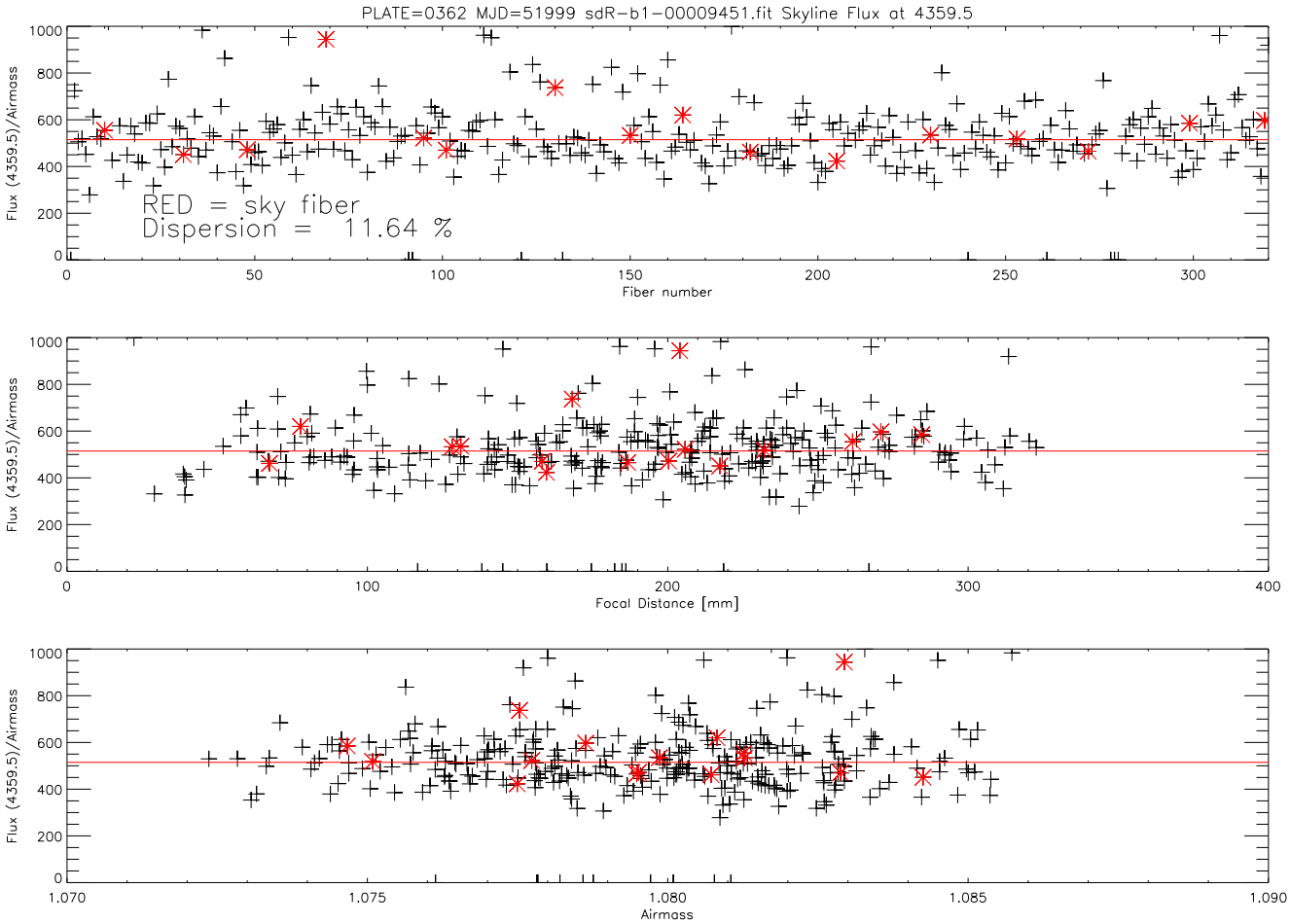

Number of sky fibers = 16
PLATE=0362 MJD=51999 sdR-b1-00009451.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

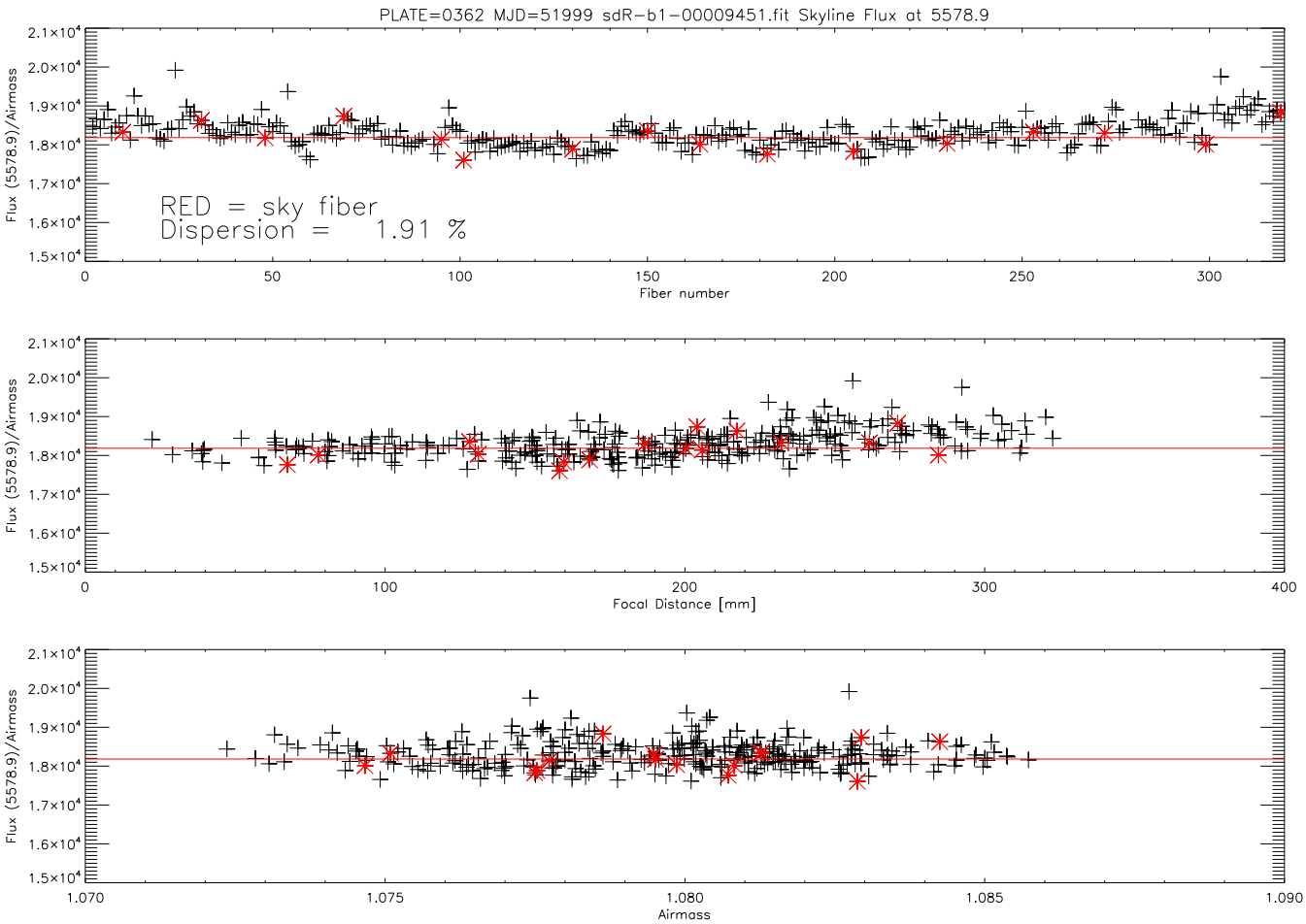

PLATE=0362 MJD=51999 sdR-b1-00009451.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

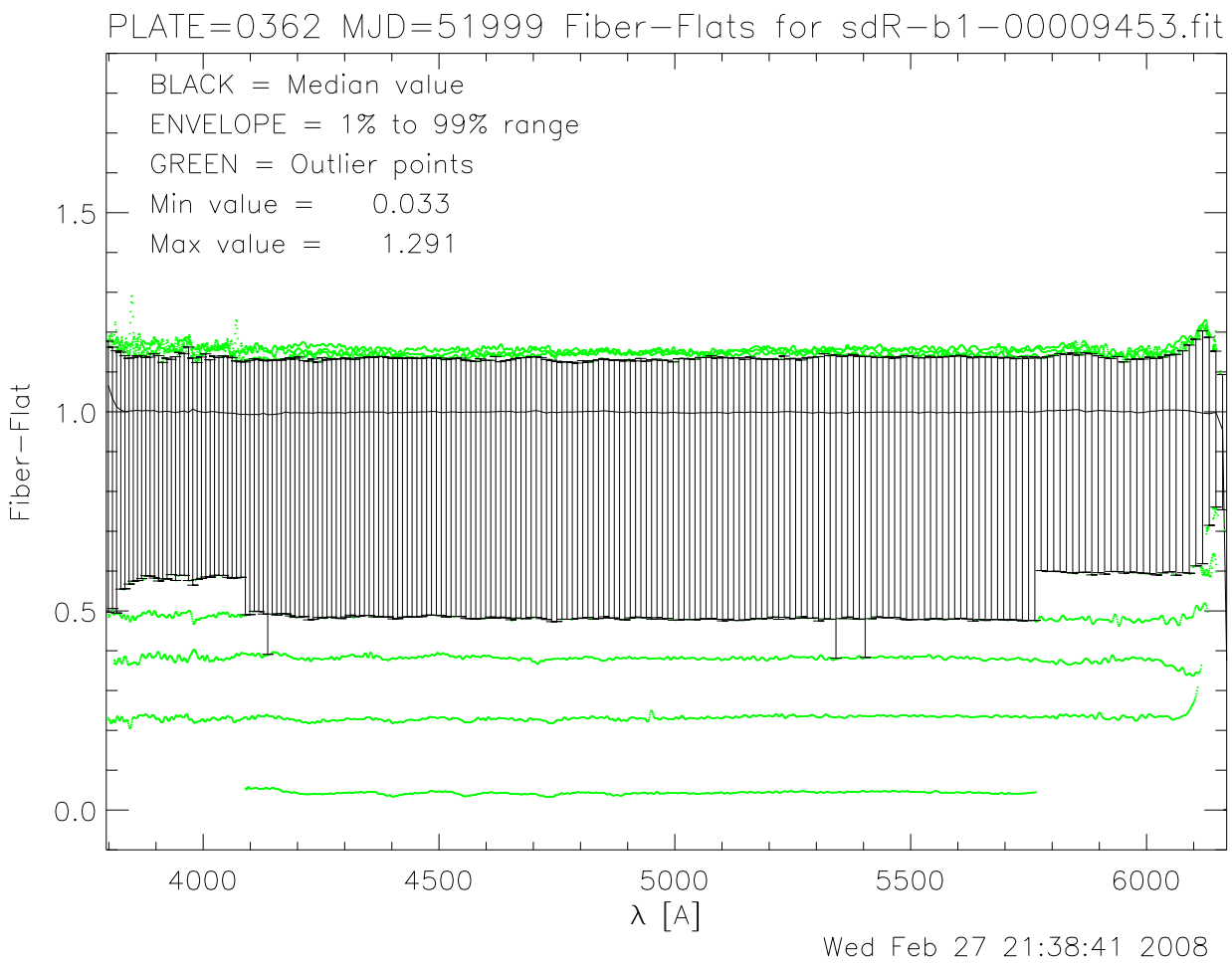

PLATE=0362 MJD=51999 sdR-b1-00009451.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

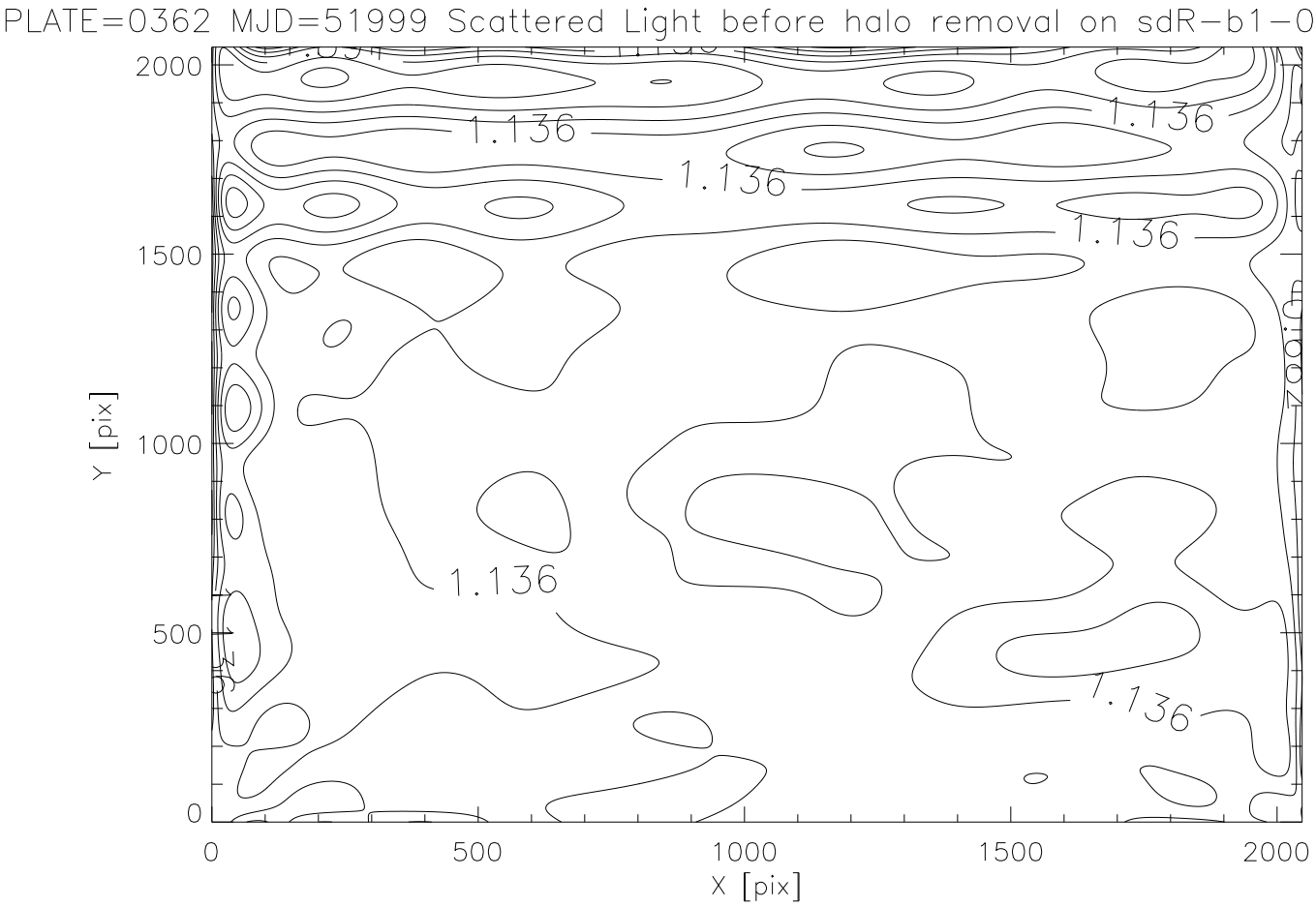

PLATE=0362 MJD=51999 sdR-b1-00009451.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

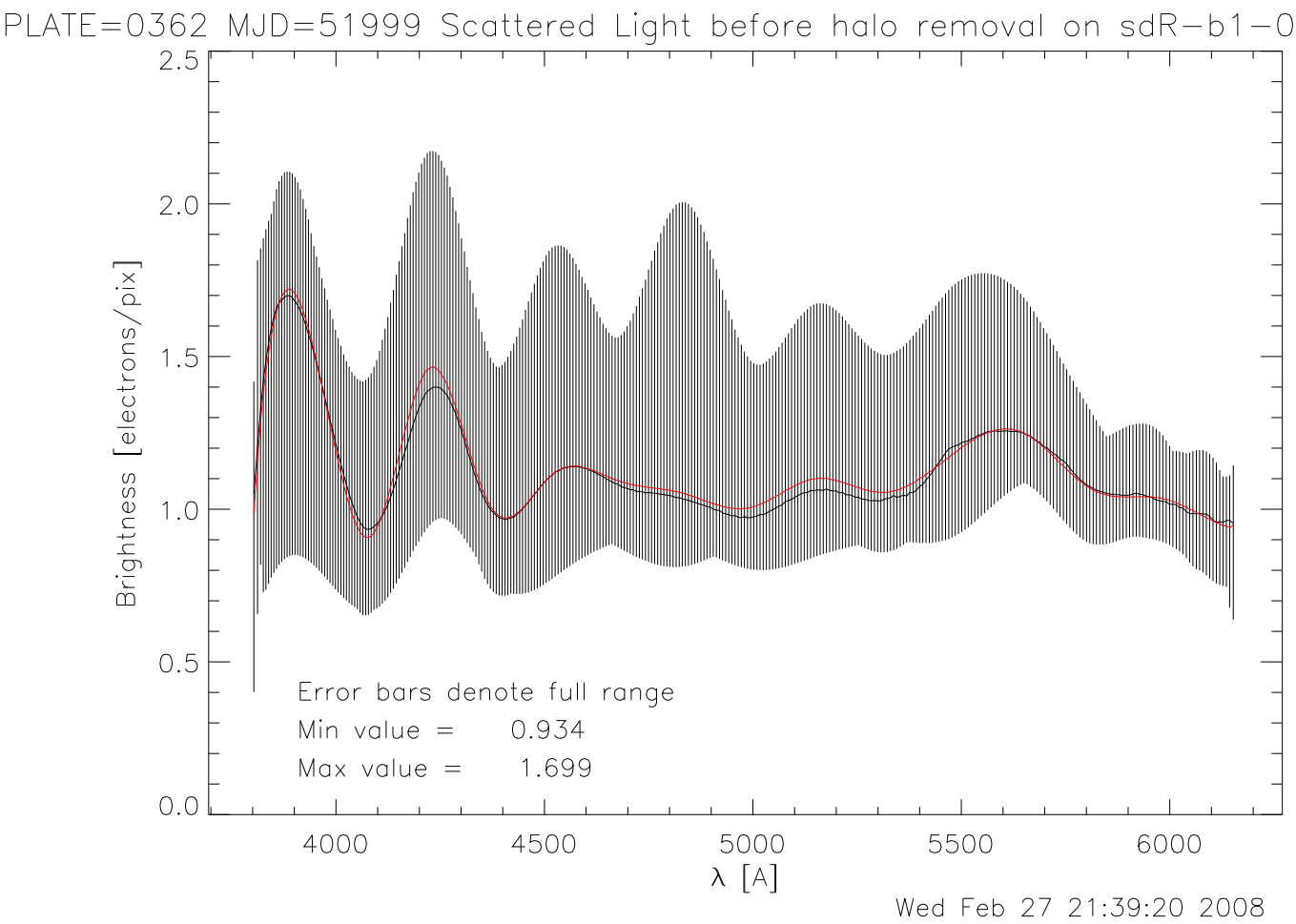

Number of sky fibers = 16
PLATE=0362 MJD=51999 sdR-b1-00009451.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

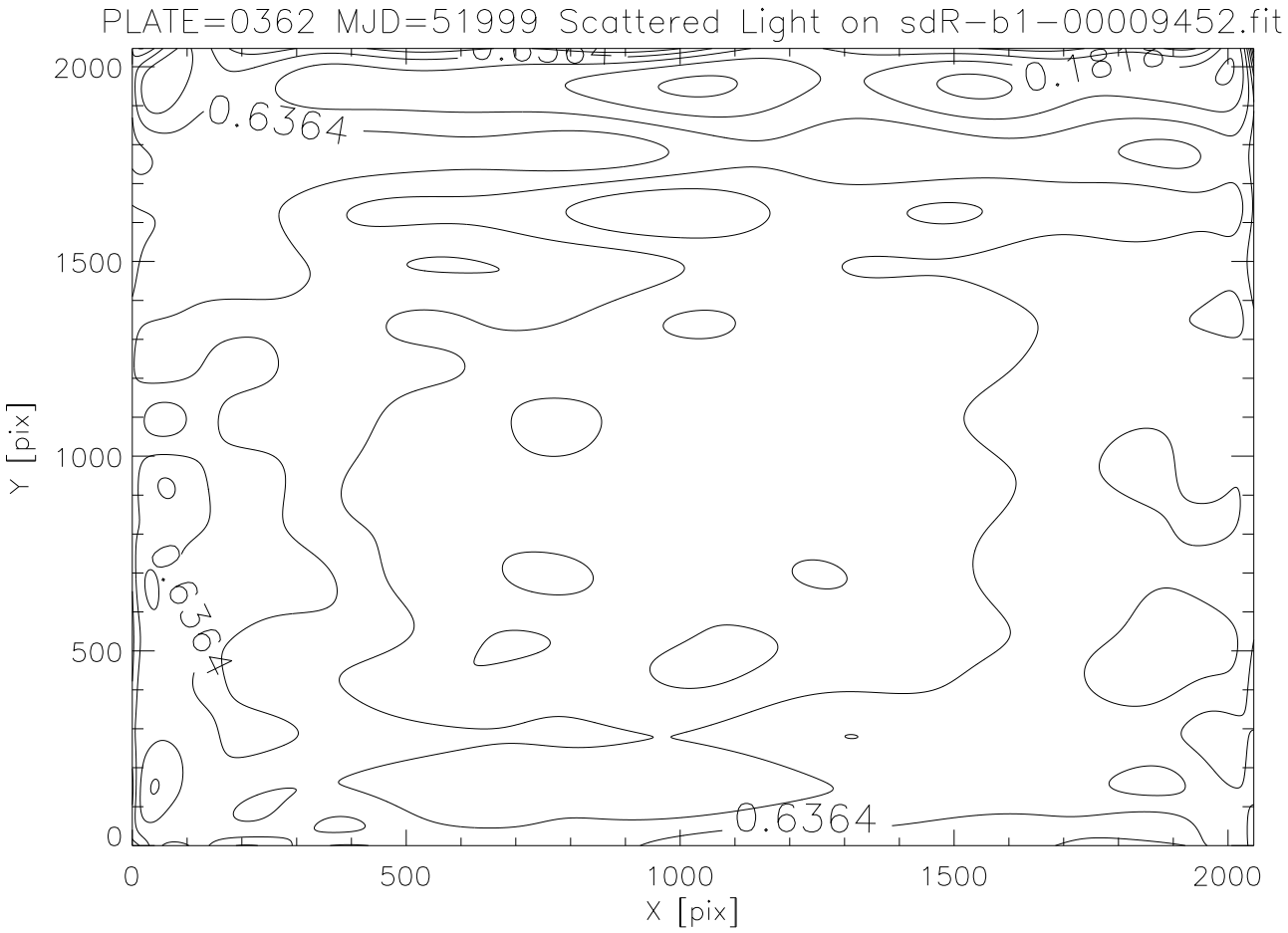

PLATE=0362 MJD=51999 sdR-b1-00009451.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 11.64 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

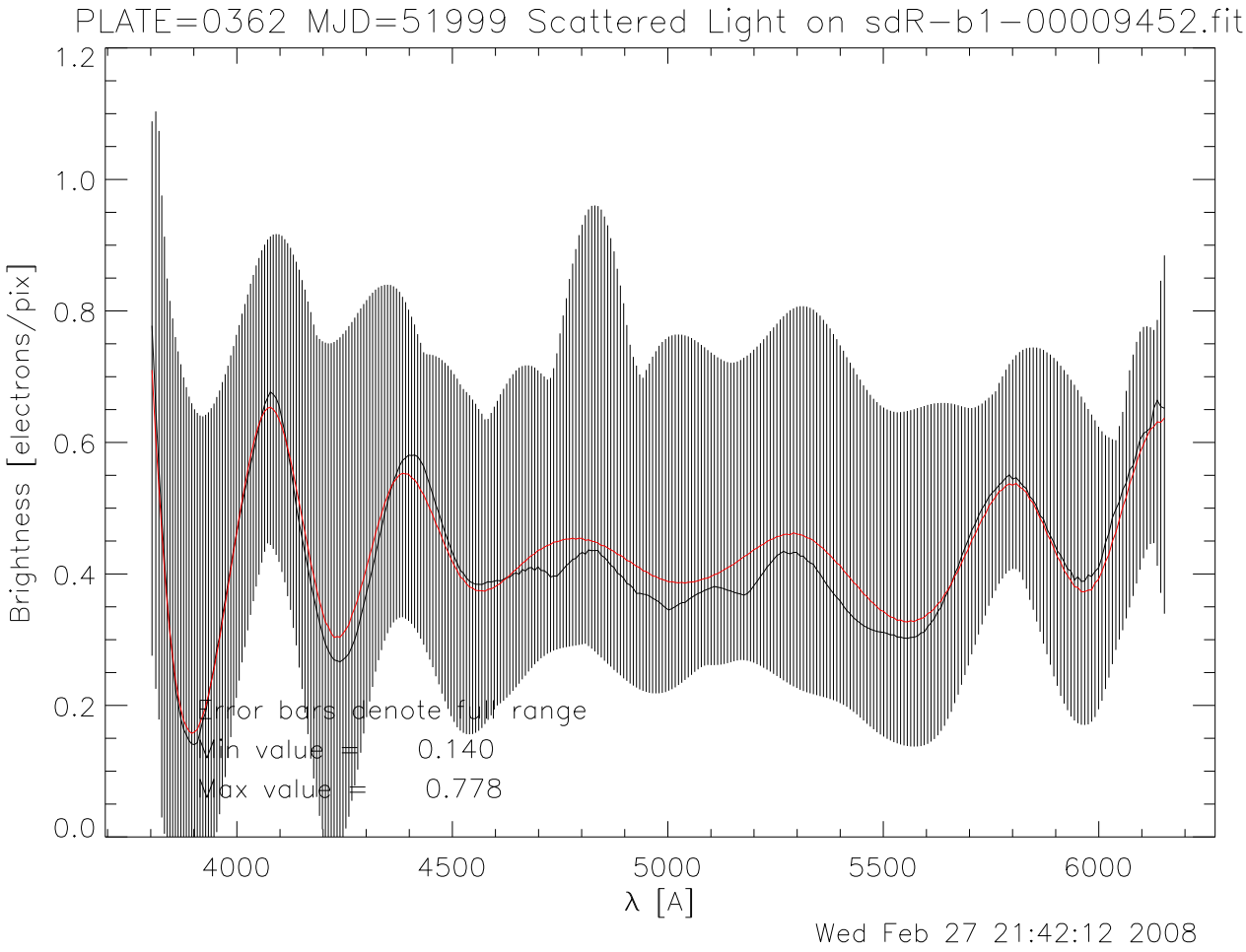

PLATE=0362 MJD=51999 sdR-b1-00009451.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.91 %
Fiber number
Focal Distance [mm]
Airmass

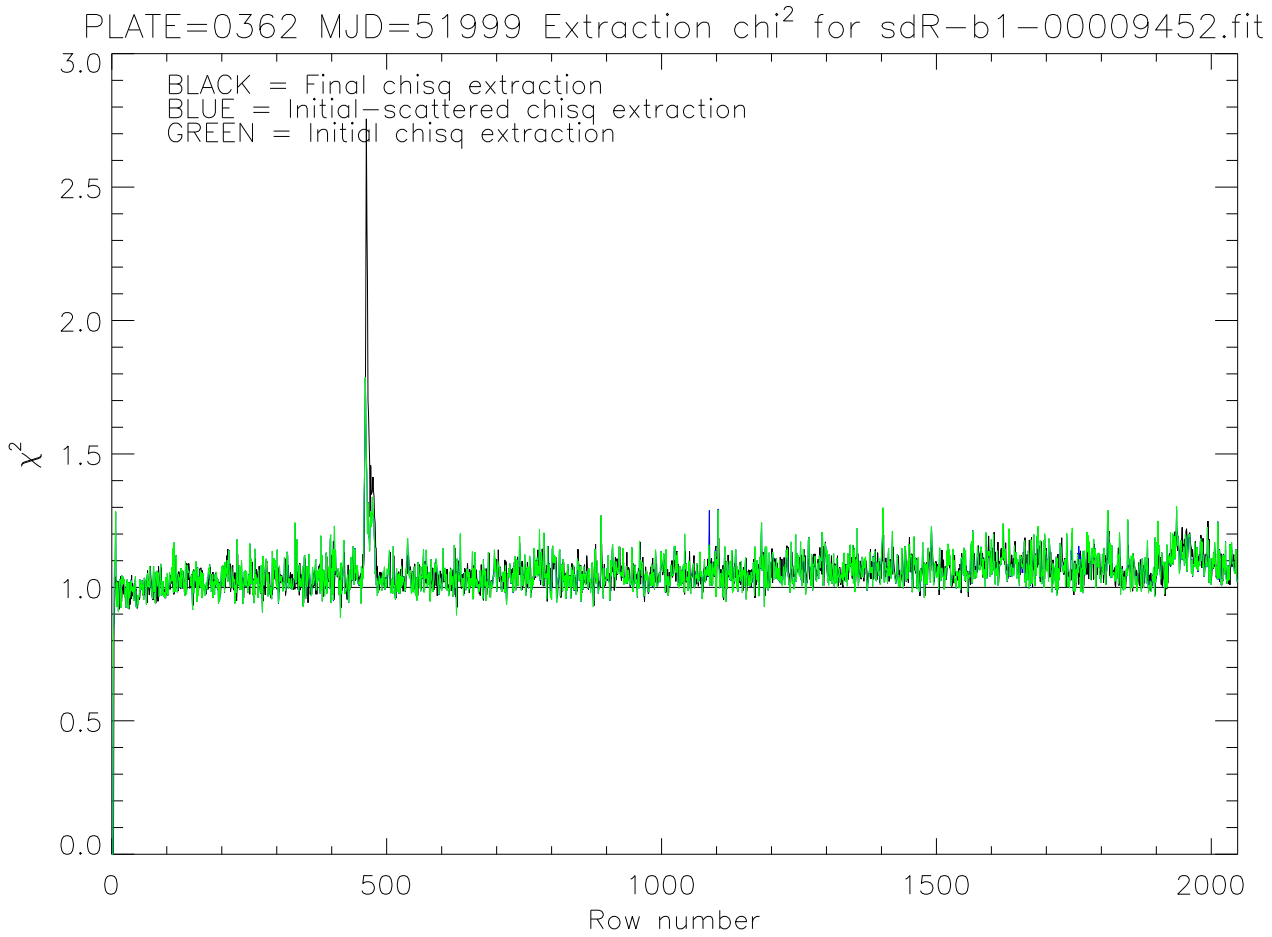

PLATE=0362 MJD=51999 Fiber-Flats for sdR-b1-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.033
Max value = 1.291
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:38:41 2008

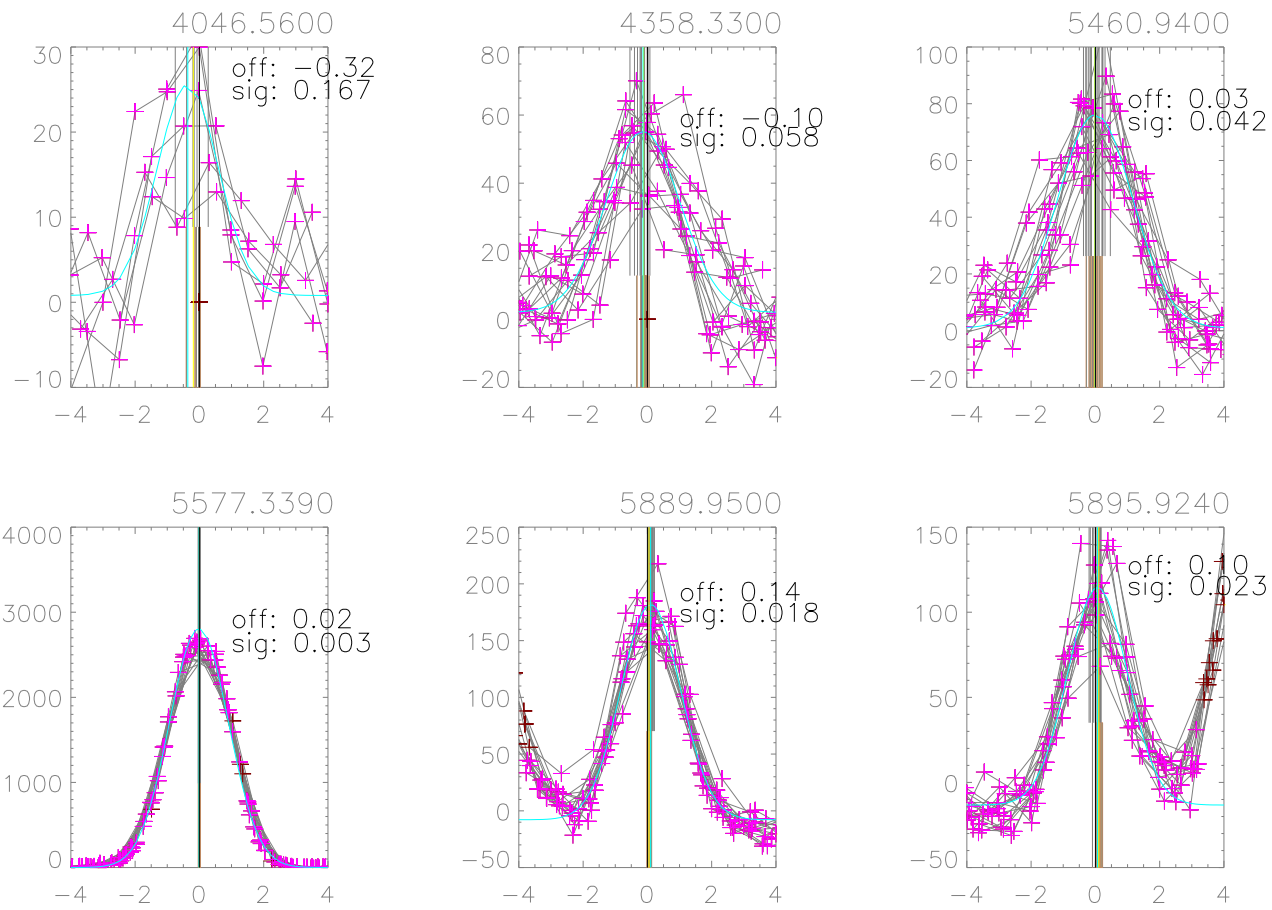

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR−b1−00009452.f
1.136
1.136
1.136
1.136
1.136
1.136
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

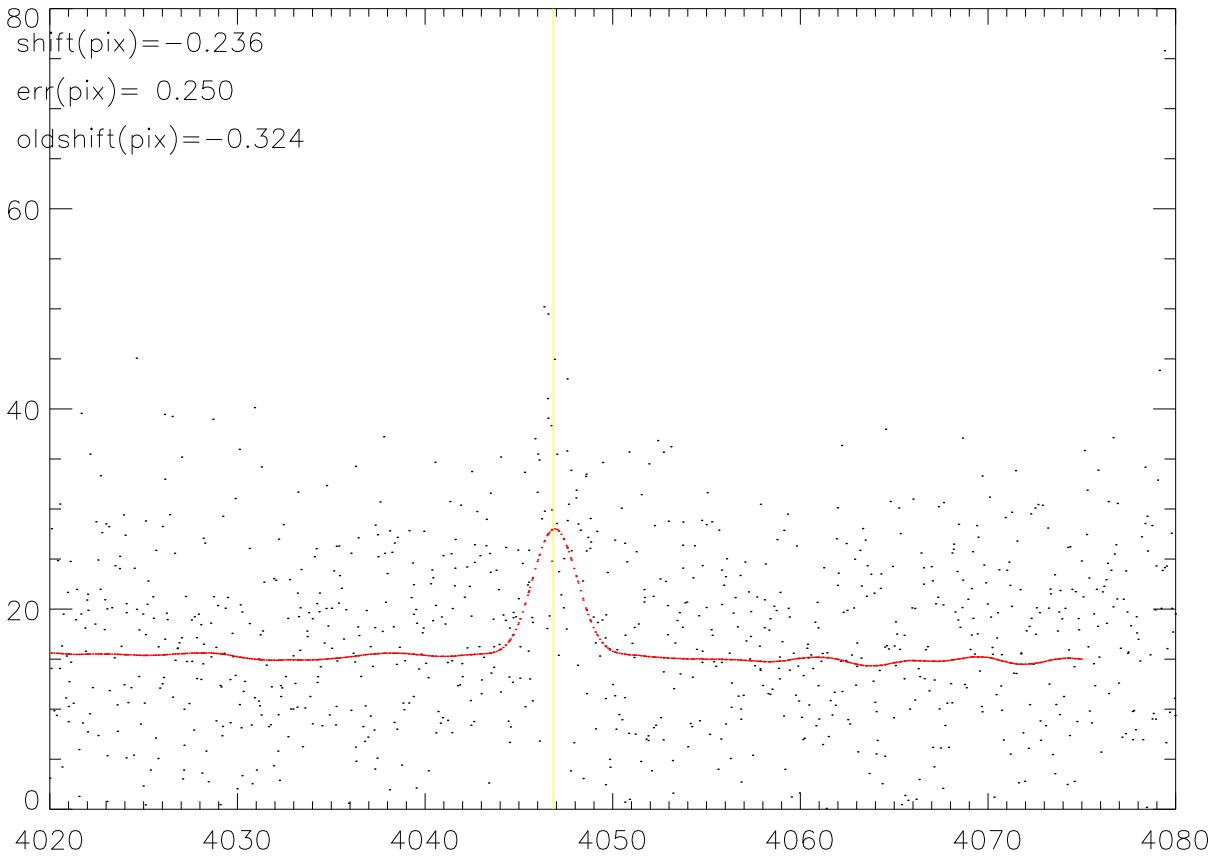

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-b1-00009452.f
Brightness [electrons/pix]
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 0.934
Max value = 1.699
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:39:20 2008

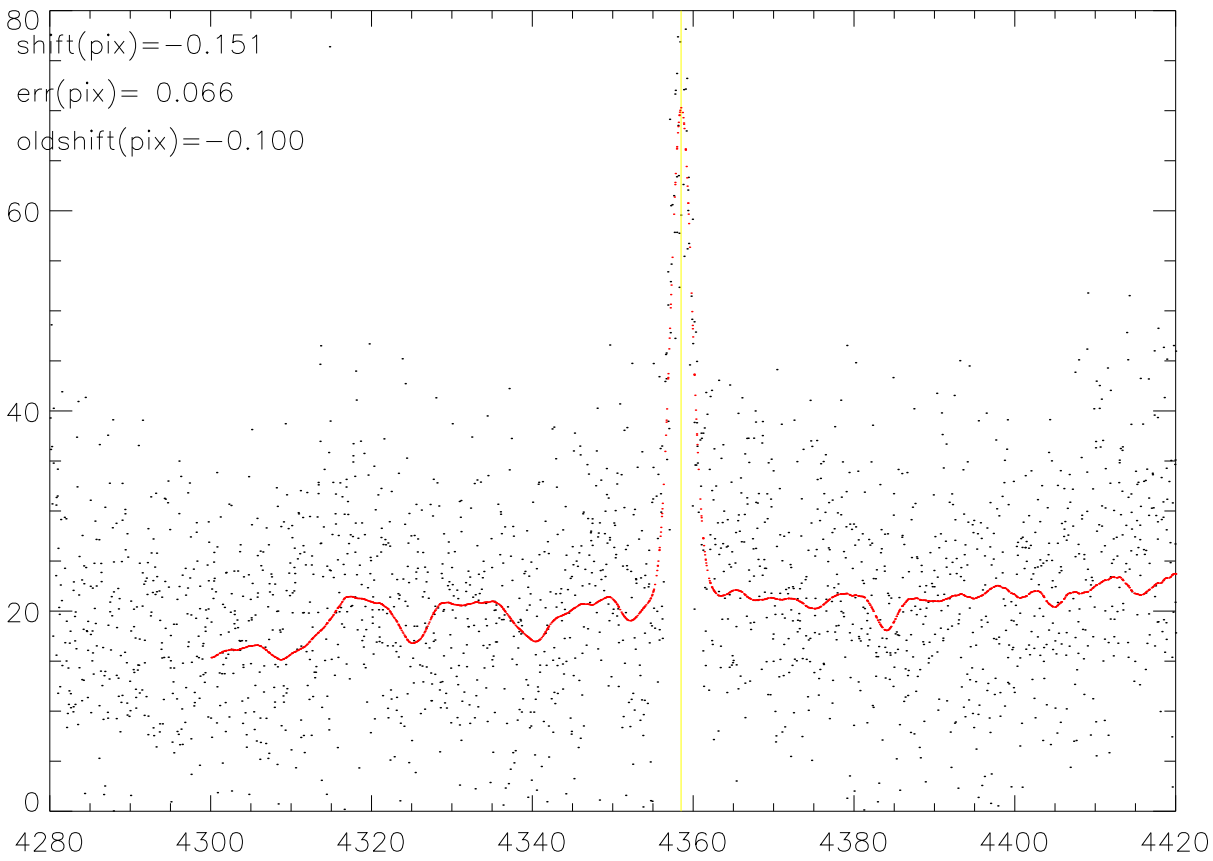

PLATE=0362 MJD=51999 Scattered Light on sdR-b1-00009452.fit
0.6364
0.6364
0.6364
0.6364
0.1818
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

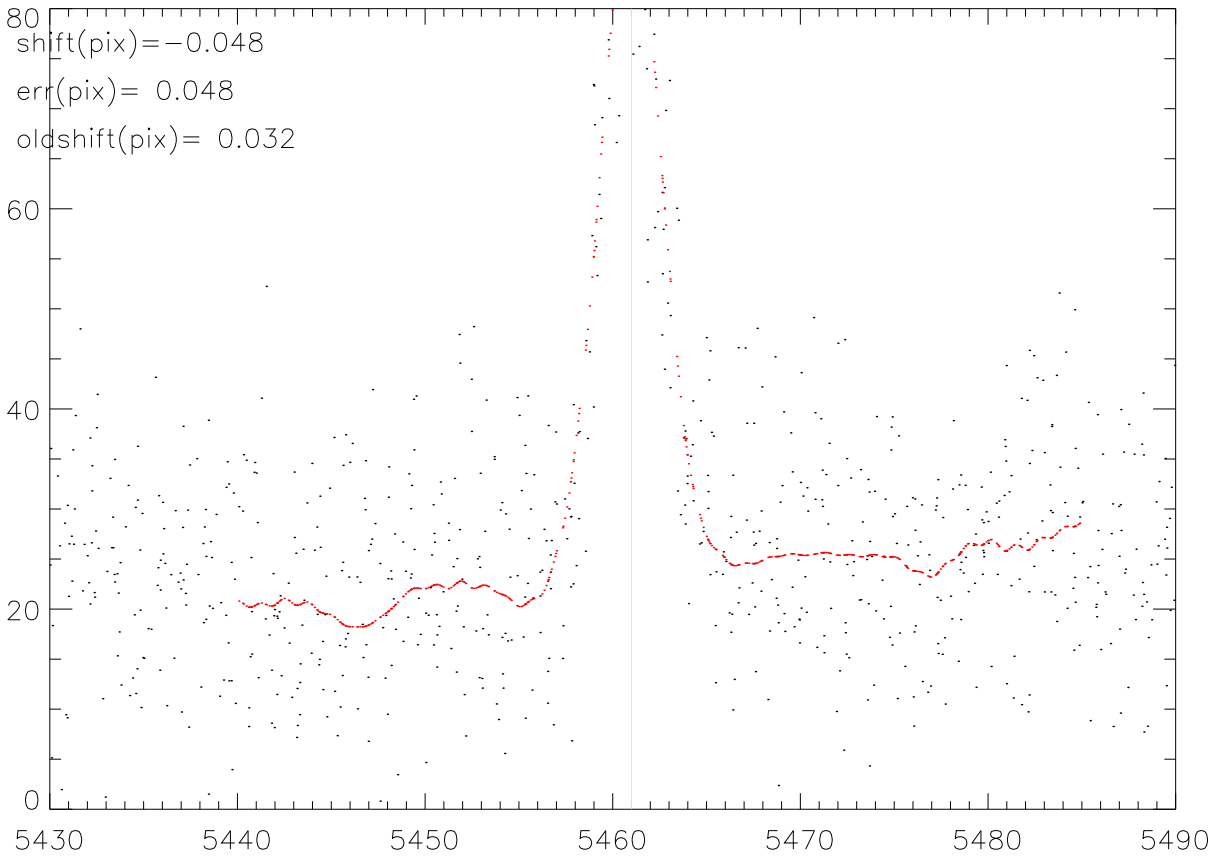

PLATE=0362 MJD=51999 Scattered Light on sdR-b1-00009452.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.140
Max value = 0.778
Wed Feb 27 21:42:12 2008

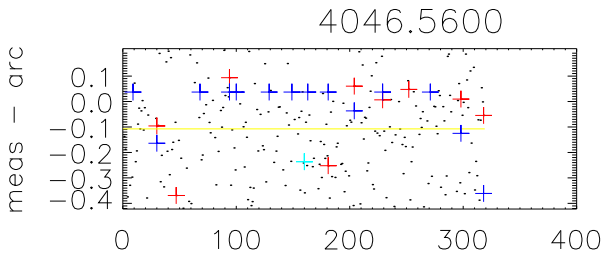

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-b1-00009452.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

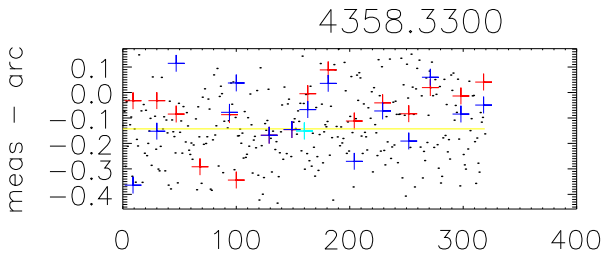

4046.5600
off: −0.32
sig: 0.167
4358.3300
off: −0.10
sig: 0.058
5460.9400
off: 0.03
sig: 0.042
5577.3390
off: 0.02
sig: 0.003
5889.9500
off: 0.14
sig: 0.018
5895.9240
off: 0.10
sig: 0.023

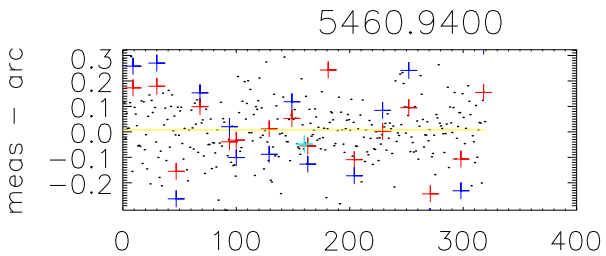

shift(pix)=−0.236
err(pix)= 0.250
oldshift(pix)=−0.324
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

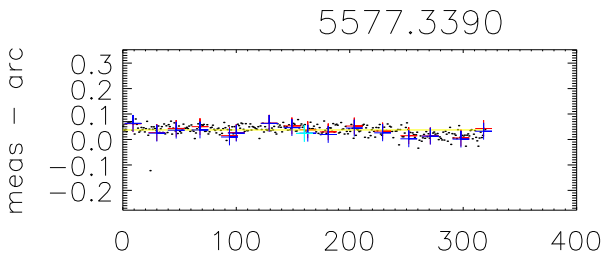

shift(pix)=−0.151
err(pix)= 0.066
oldshift(pix)=−0.100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

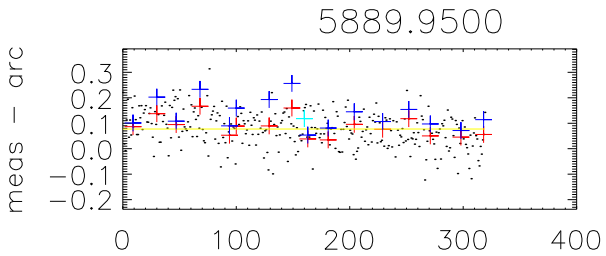

shift(pix)=−0.048
err(pix)= 0.048
oldshift(pix)= 0.032
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

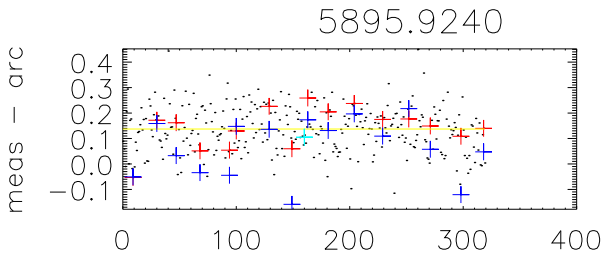

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

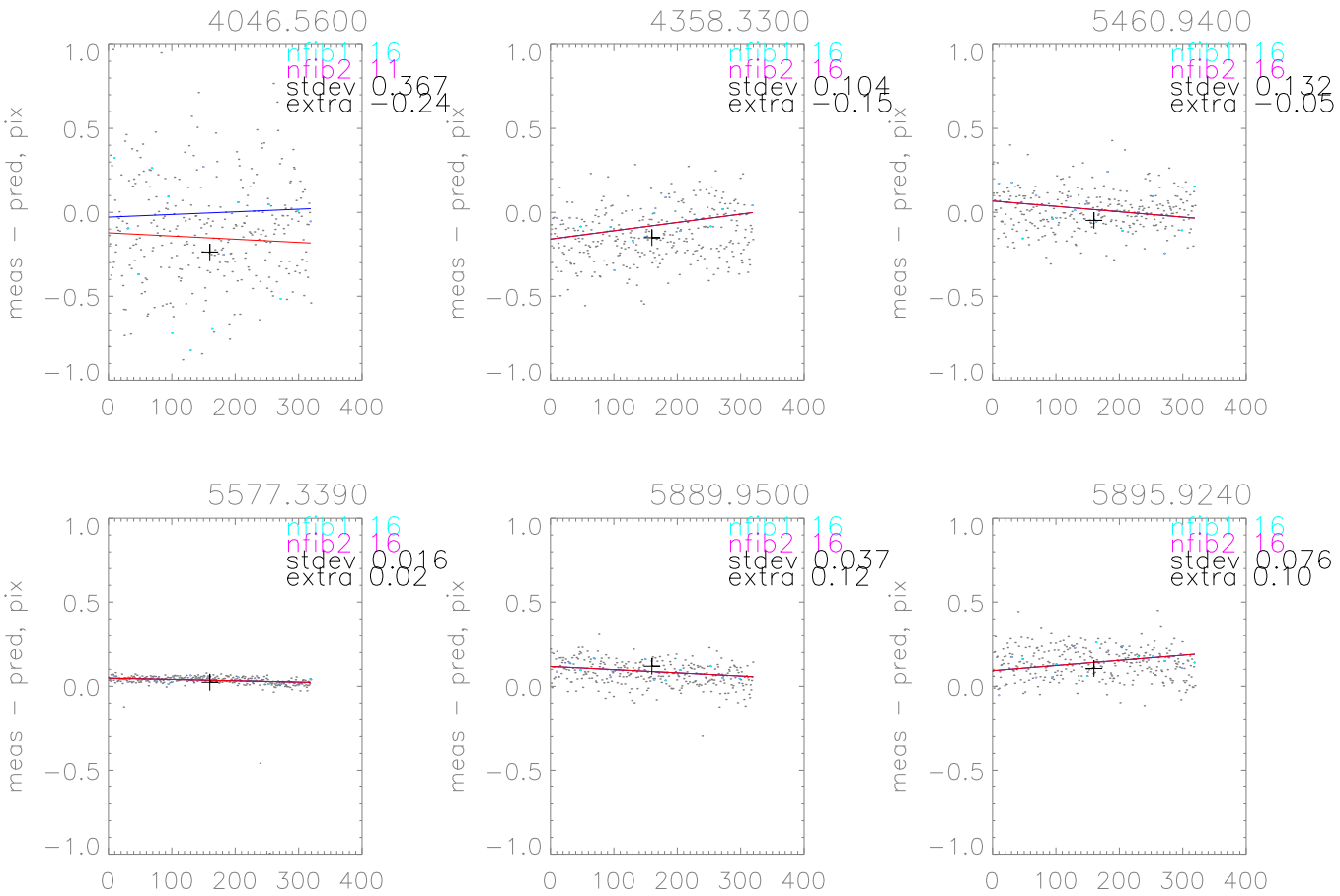

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

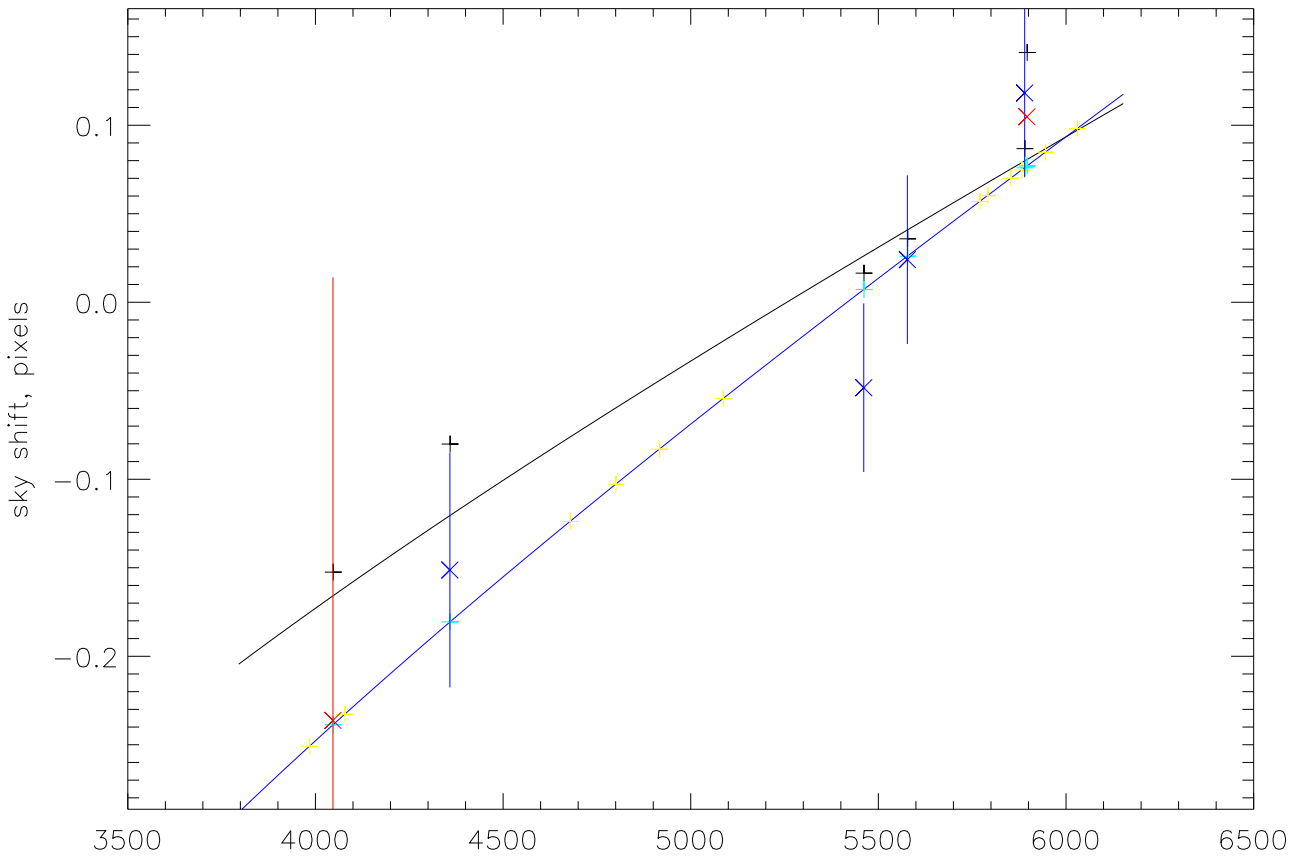

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

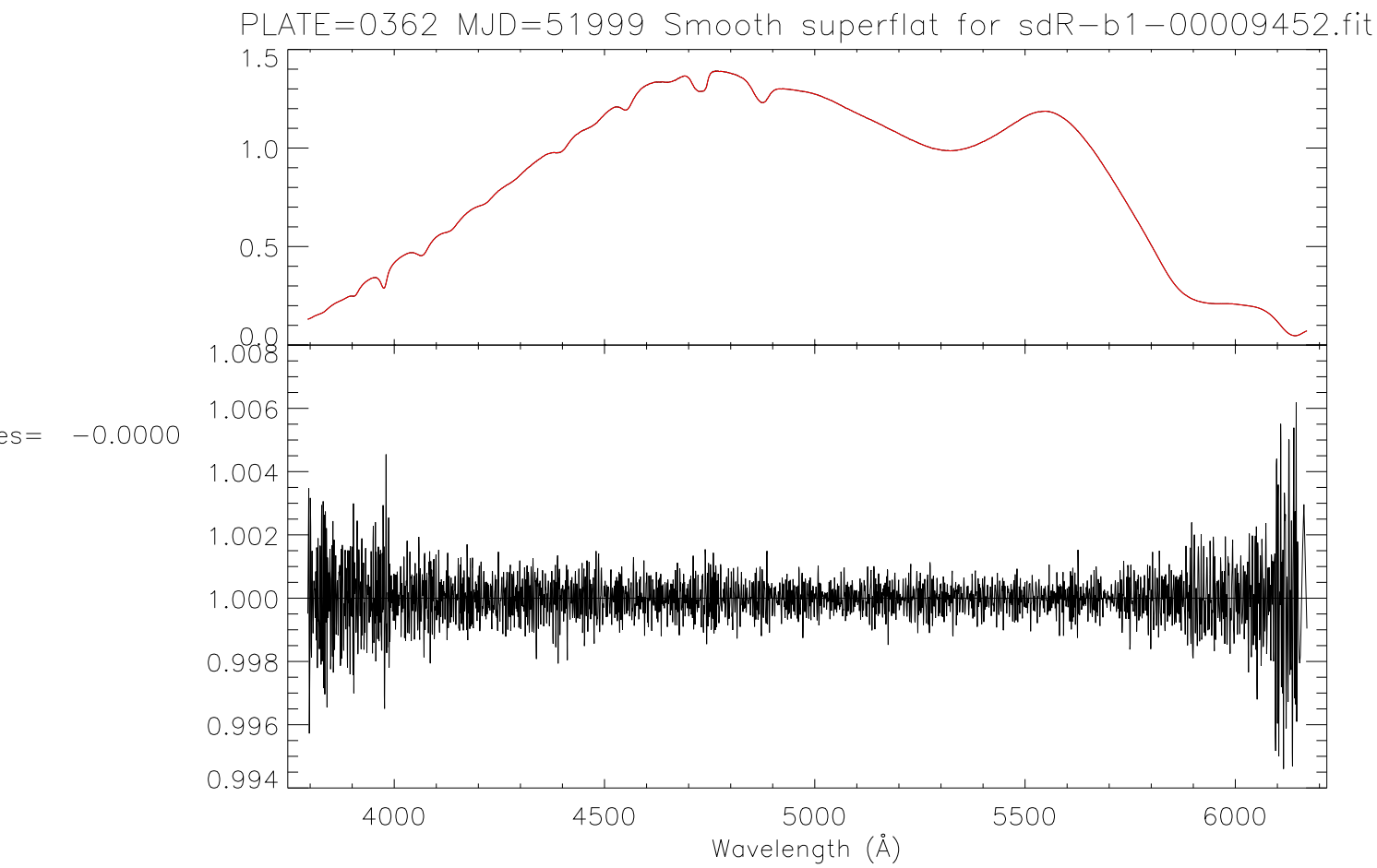

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

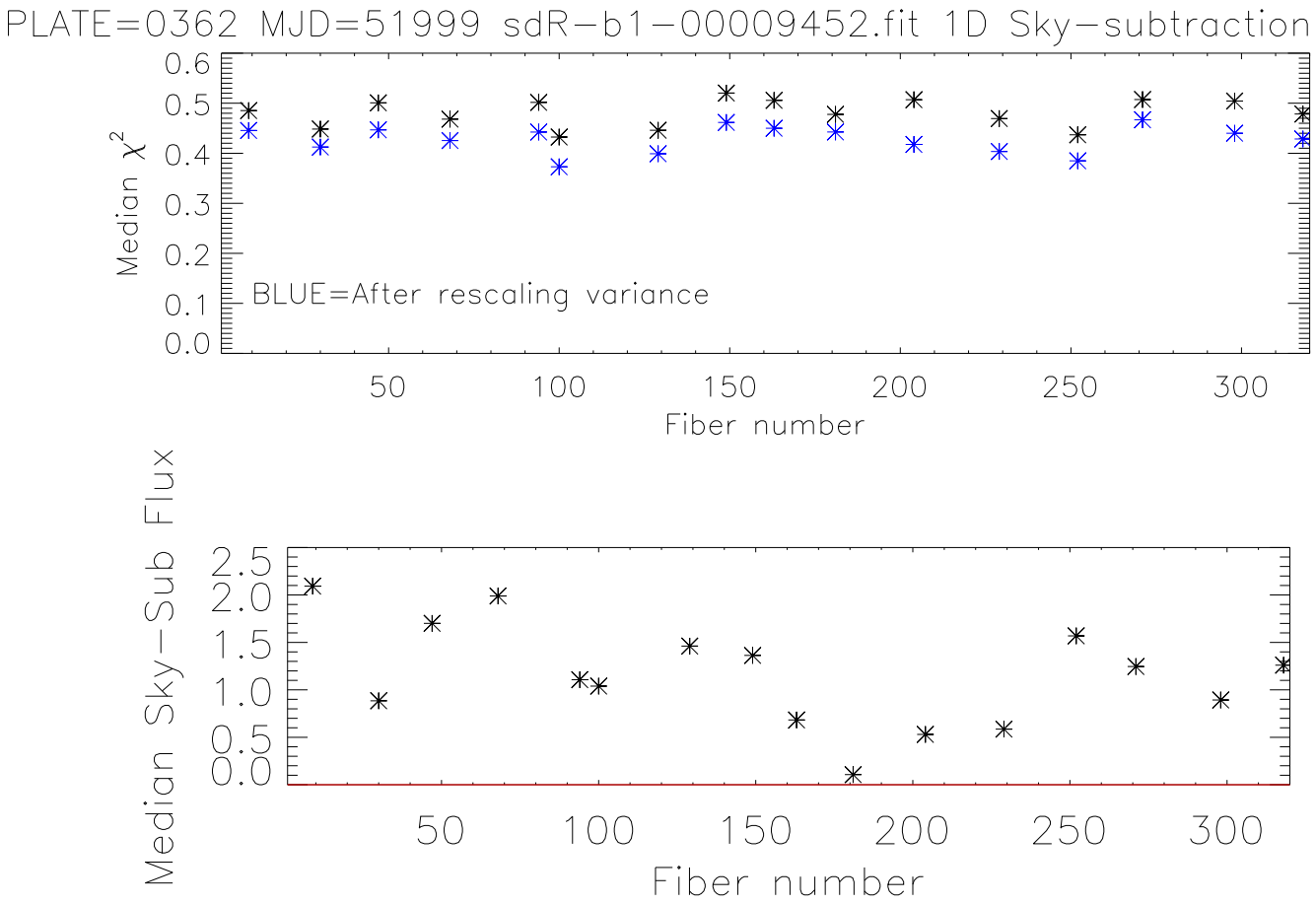

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

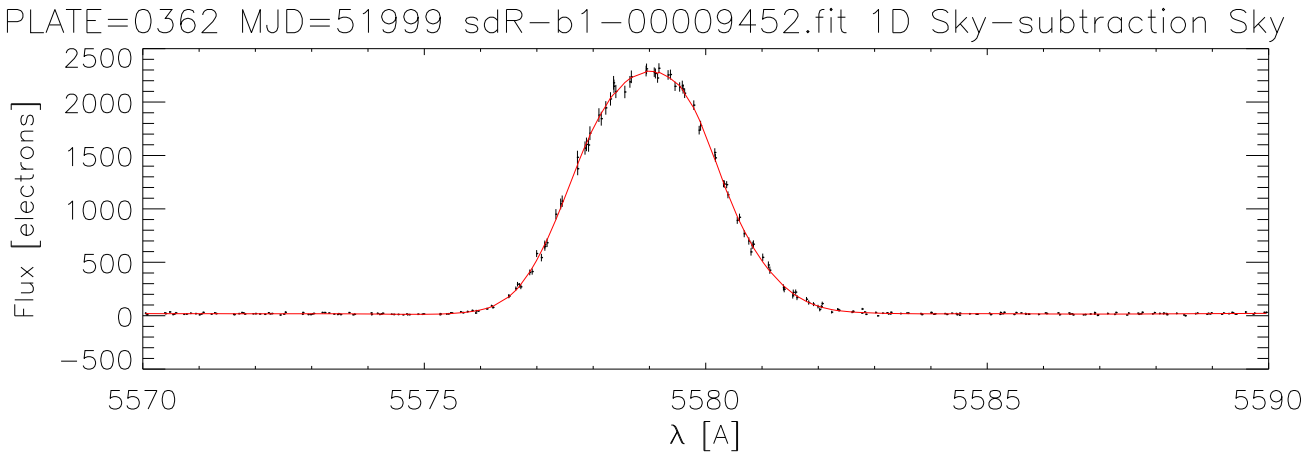

4046.5600
nfib1 16
nfib2 11
stdev 0.367
extra −0.24
4358.3300
nfib1 16
nfib2 16
stdev 0.104
extra −0.15
5460.9400
nfib1 16
nfib2 16
stdev 0.132
extra −0.05
5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra 0.02
5889.9500
nfib1 16
nfib2 16
stdev 0.037
extra 0.12
5895.9240
nfib1 16
nfib2 16
stdev 0.076
extra 0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

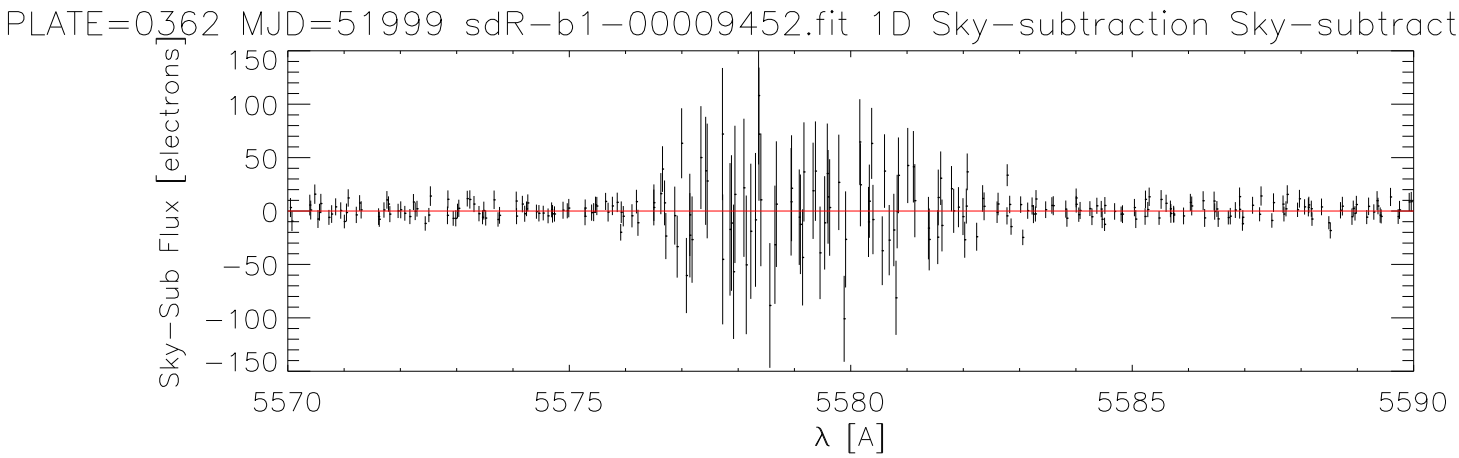

sky shift, pixels
0.1
0.0
−0.1
−0.2
3500
4000
4500
5000
5500
6000
6500

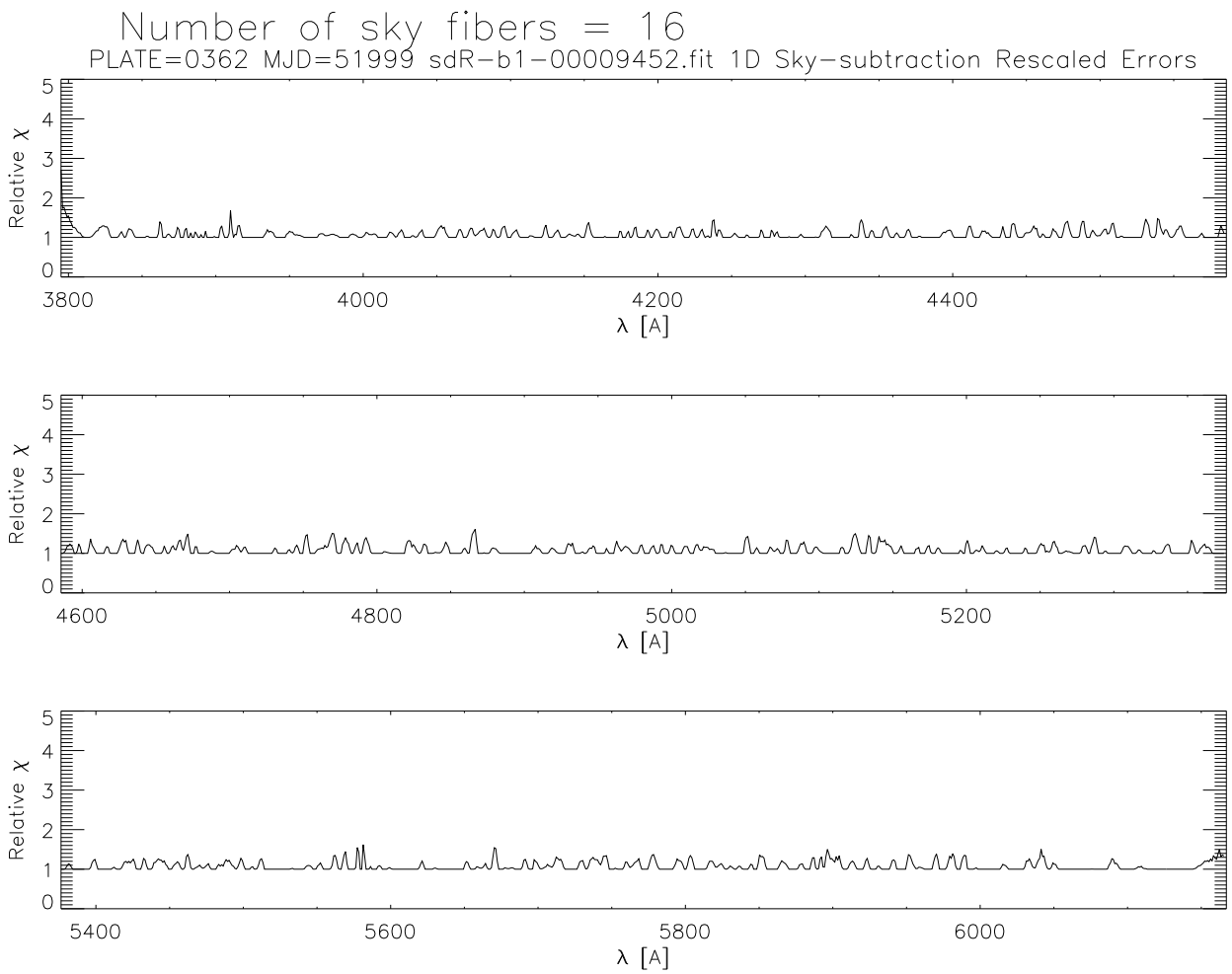

PLATE=0362 MJD=51999 Smooth superflat for sdR-b1-00009452.fit
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

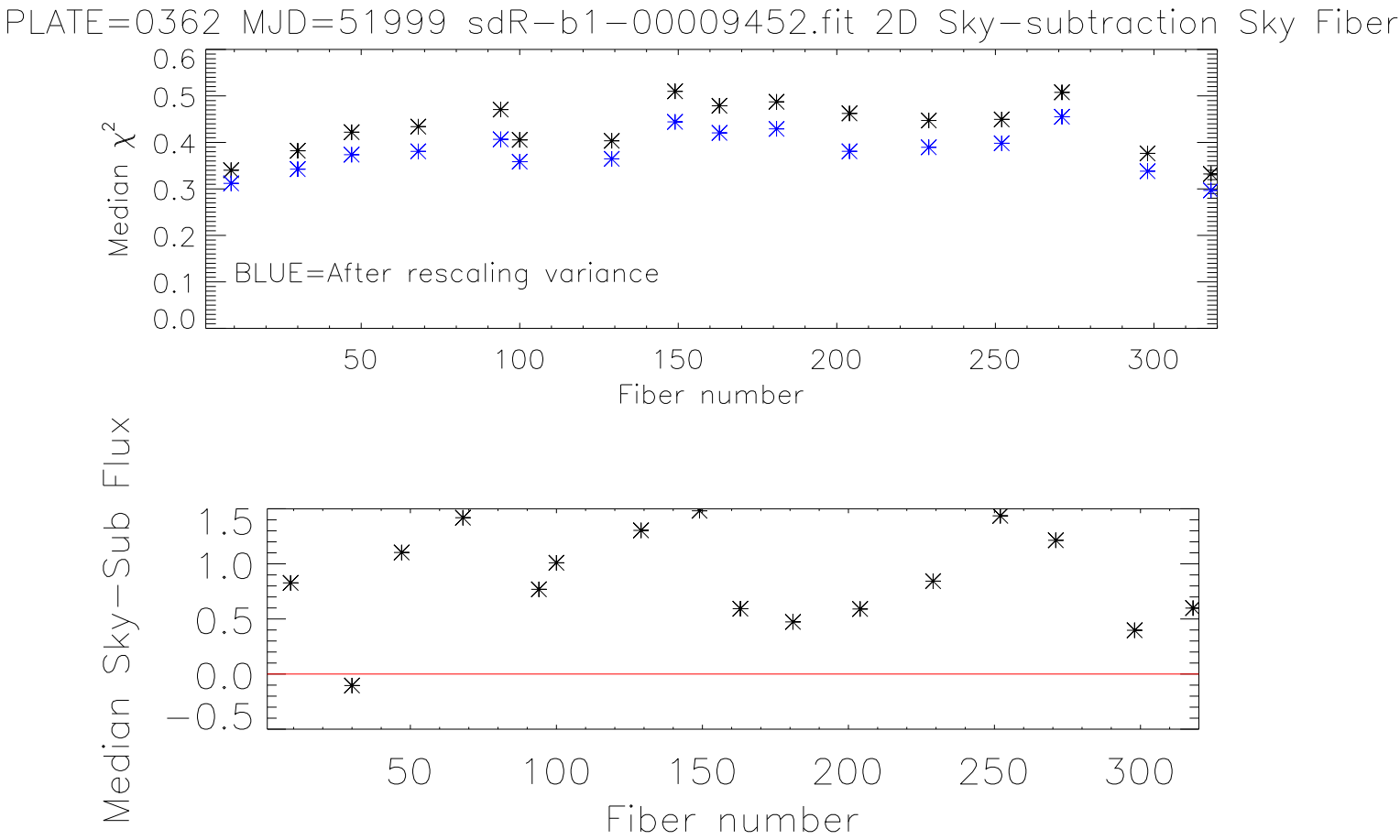
es= −0.0000

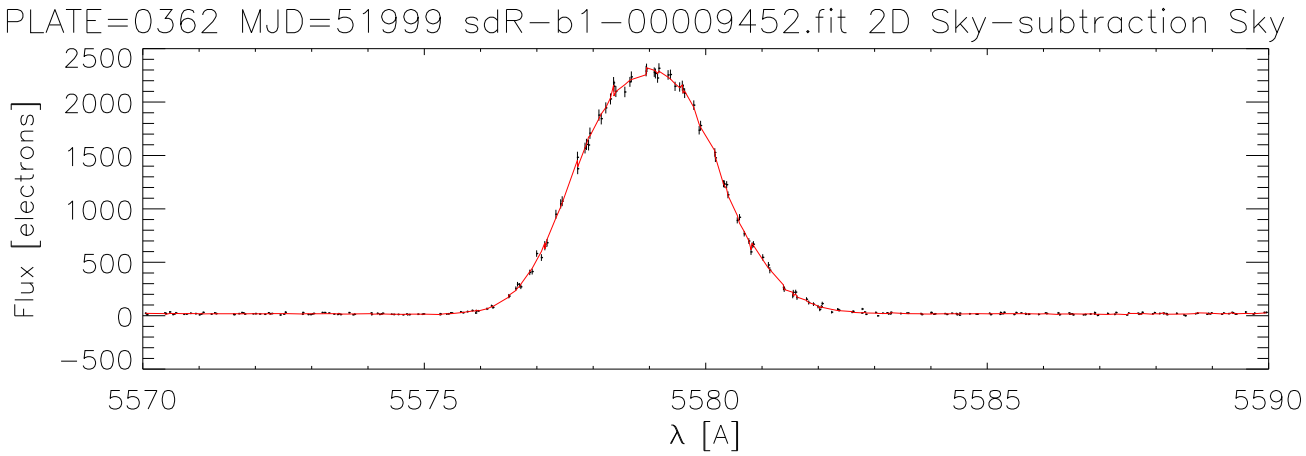

PLATE=0362 MJD=51999 sdR-b1-00009452.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

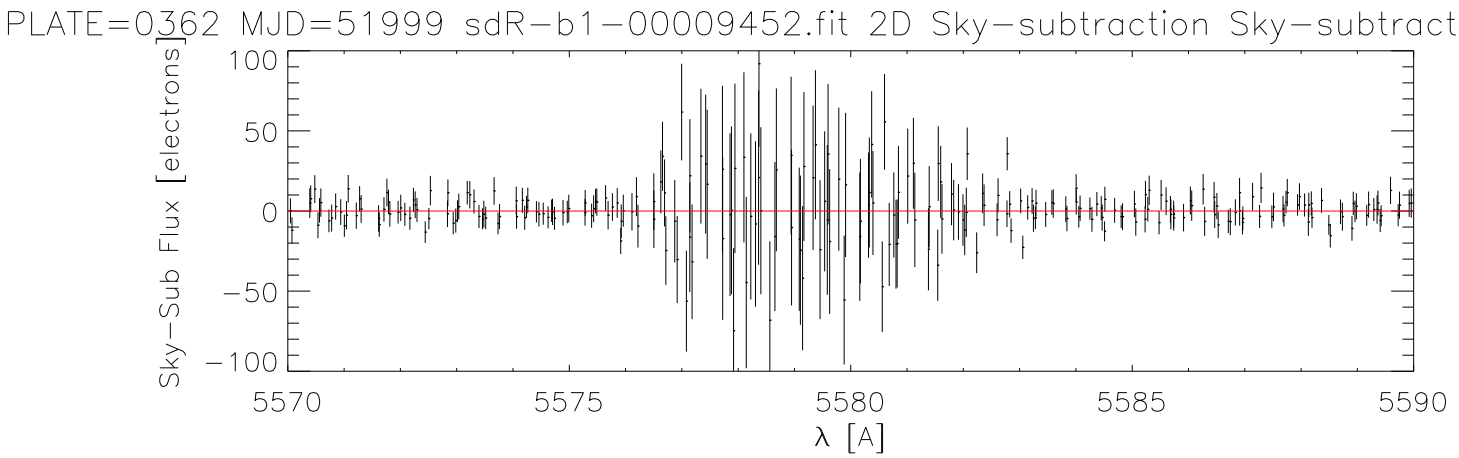

PLATE=0362 MJD=51999 sdR-b1-00009452.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

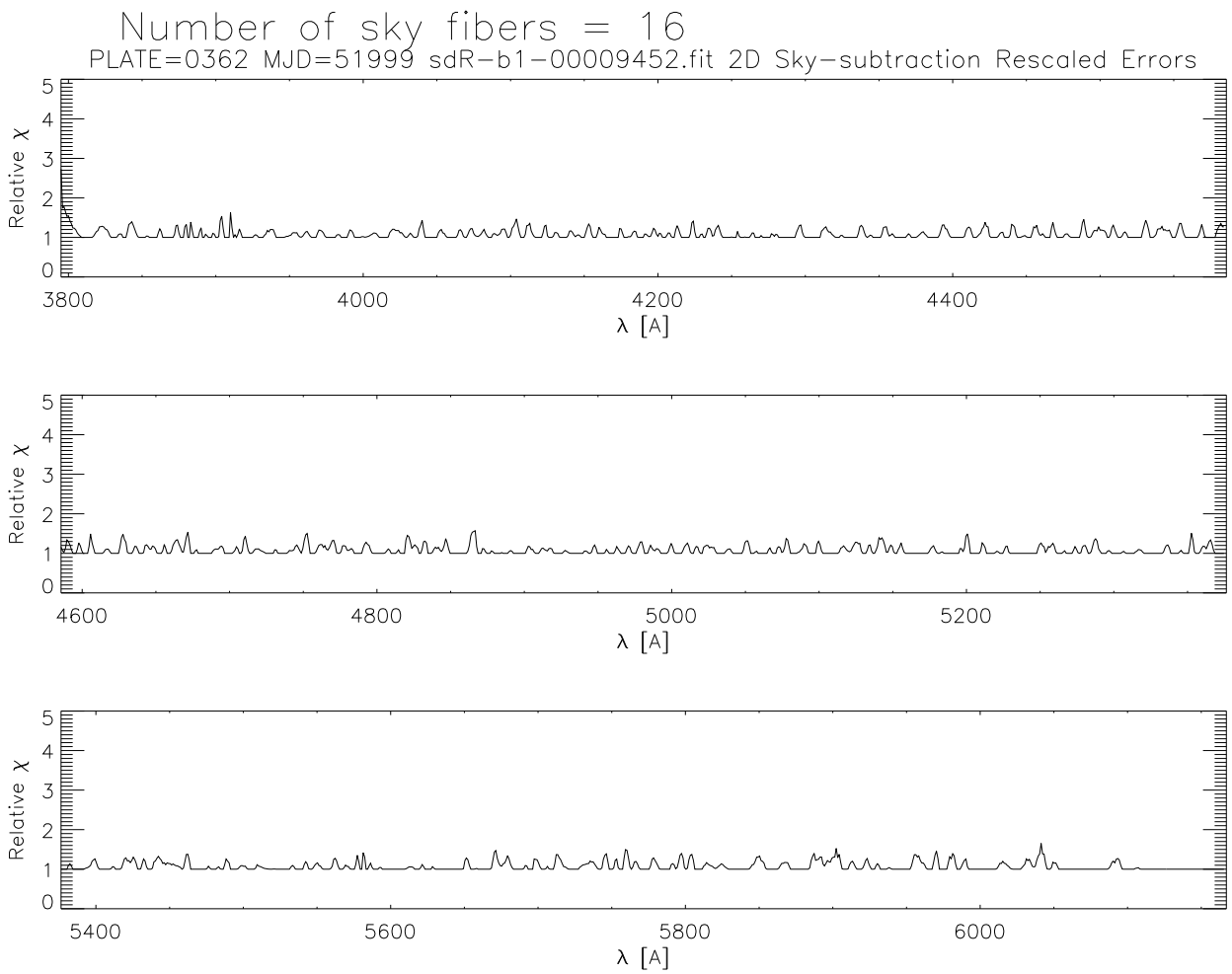

PLATE=0362 MJD=51999 sdR-b1-00009452.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

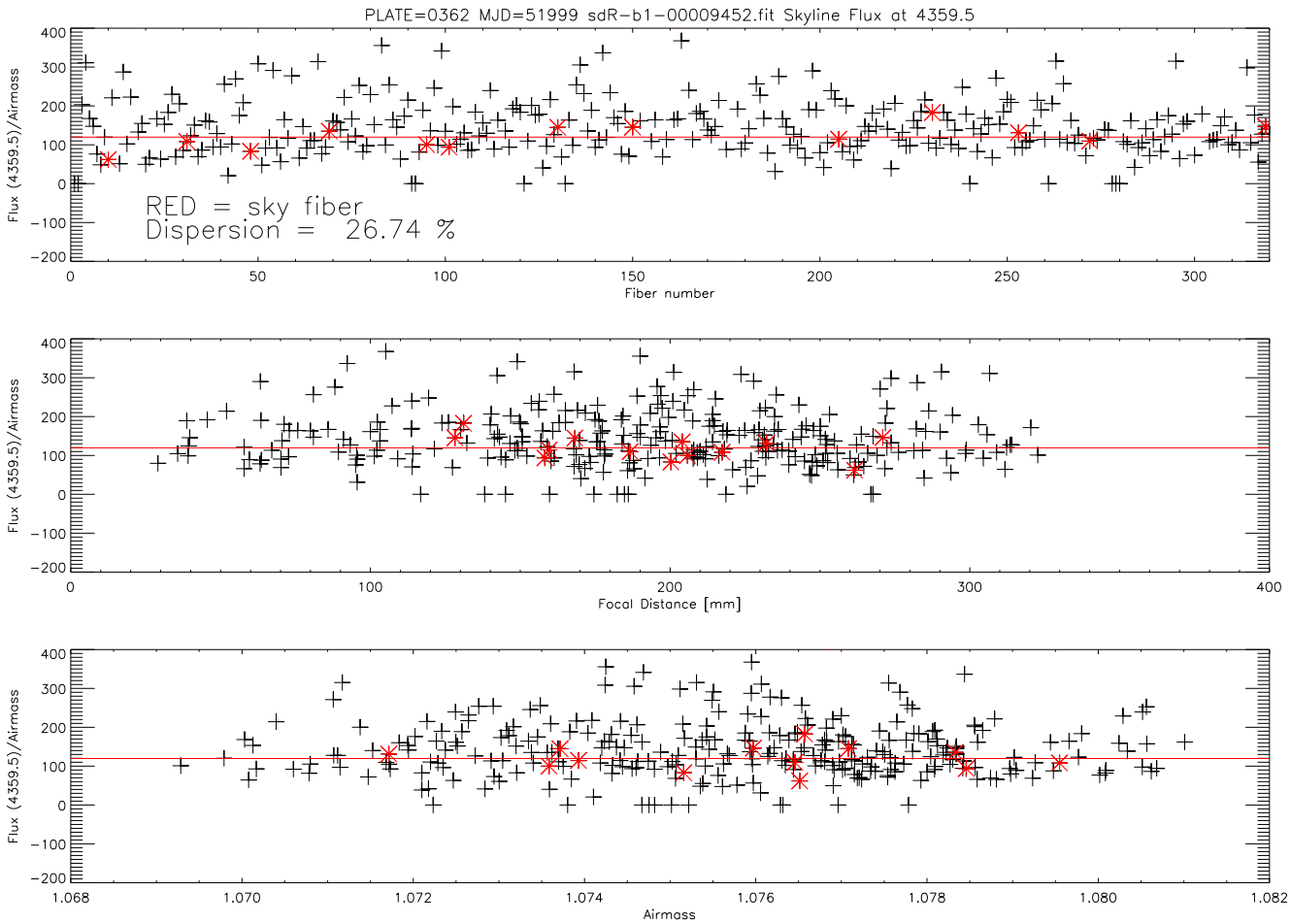

Number of sky fibers = 16
PLATE=0362 MJD=51999 sdR-b1-00009452.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

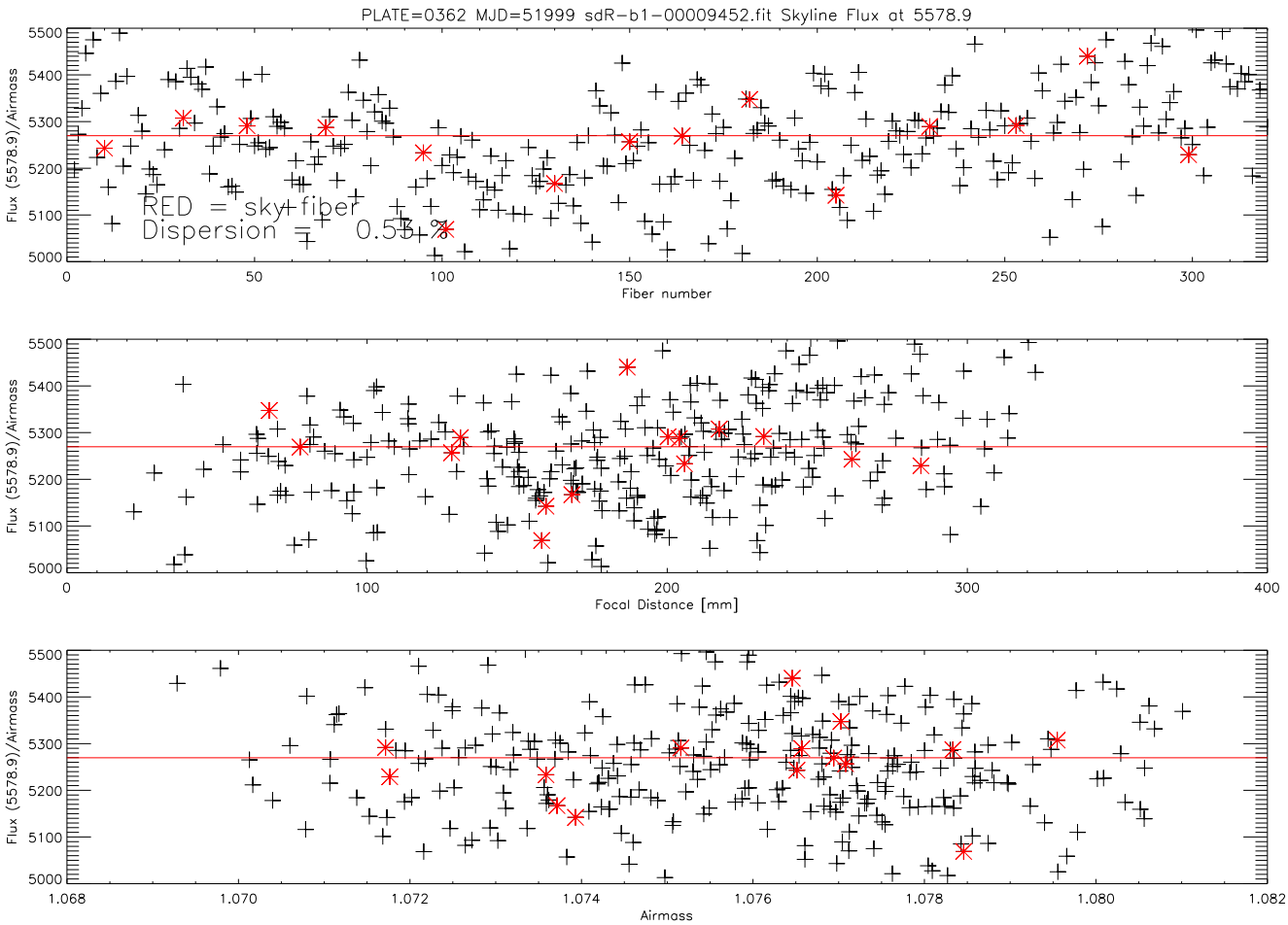

PLATE=0362 MJD=51999 sdR-b1-00009452.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

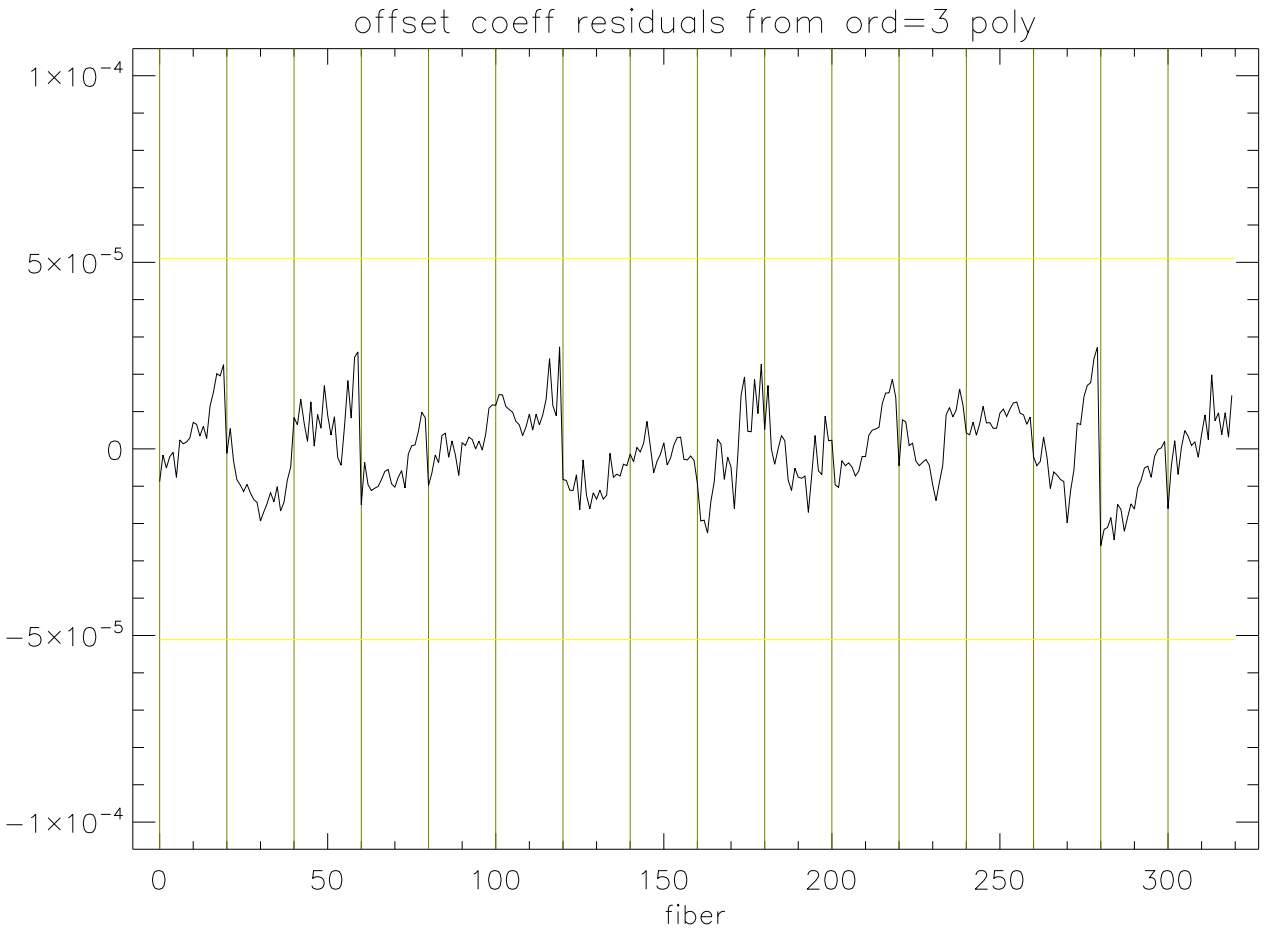

PLATE=0362 MJD=51999 sdR-b1-00009452.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
−500
5570
5575
5580
5585
5590
λ [A]

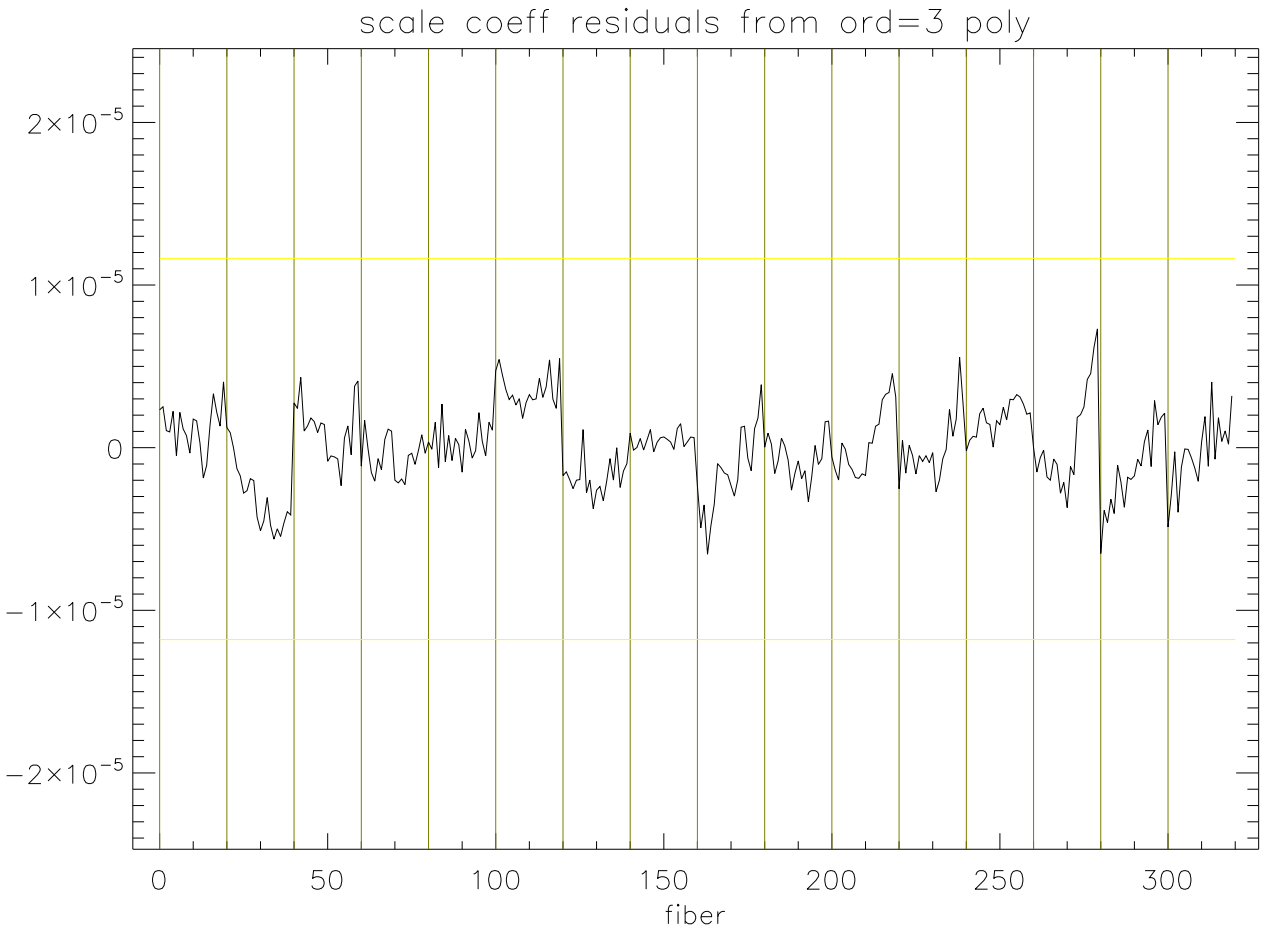

PLATE=0362 MJD=51999 sdR-b1-00009452.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

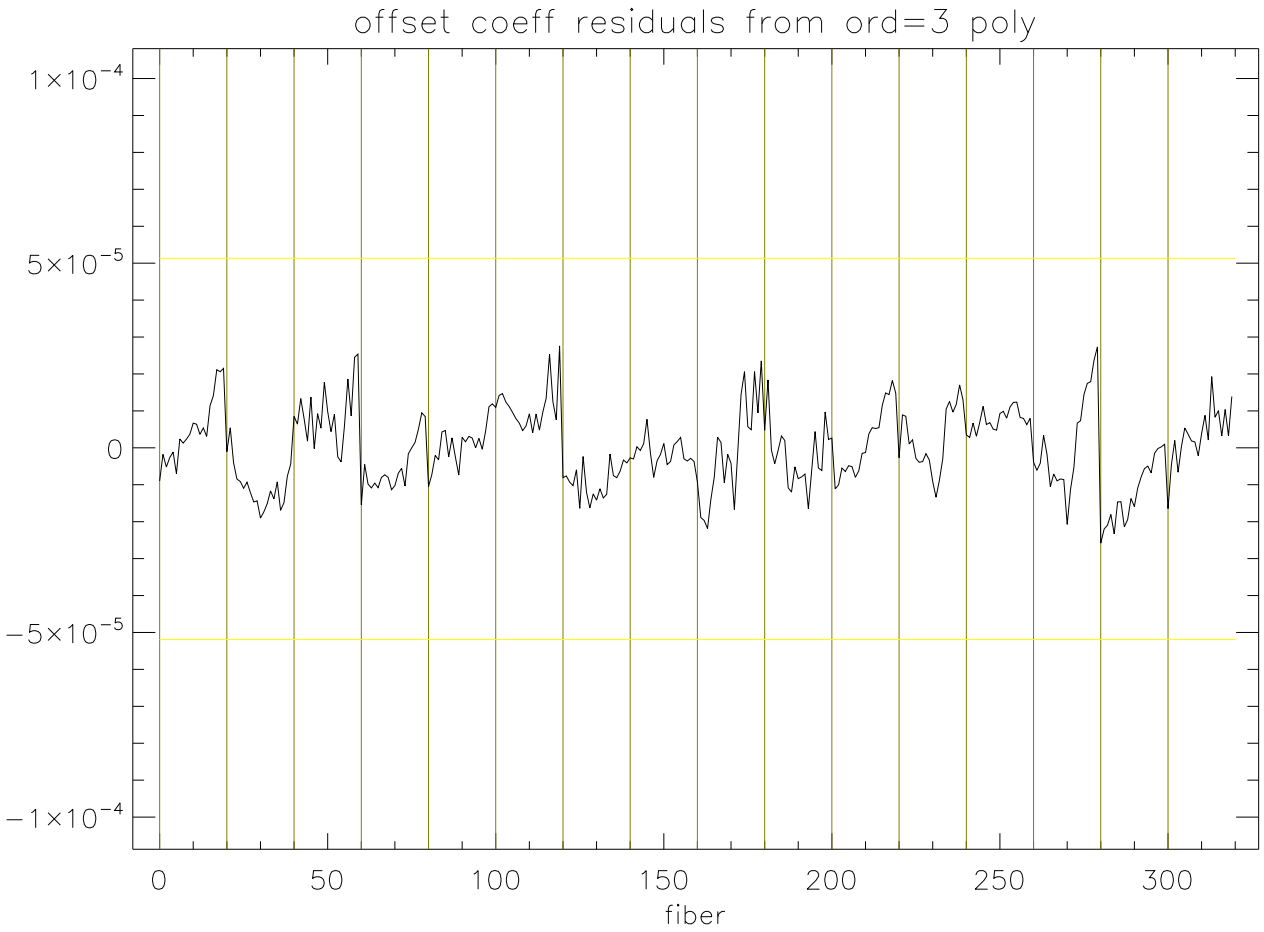

Number of sky fibers = 16
PLATE=0362 MJD=51999 sdR-b1-00009452.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

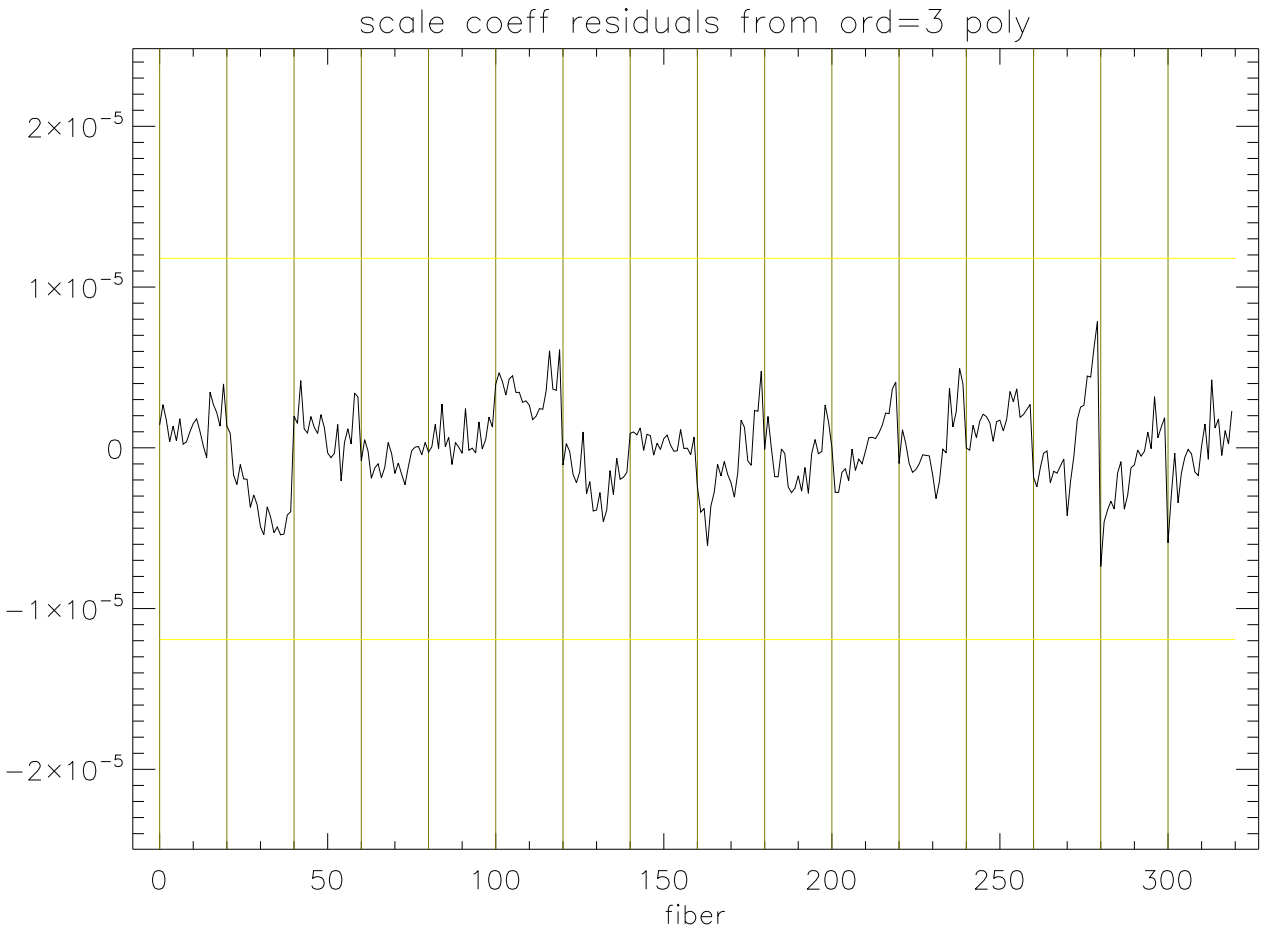

PLATE=0362 MJD=51999 sdR-b1-00009452.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 26.74 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

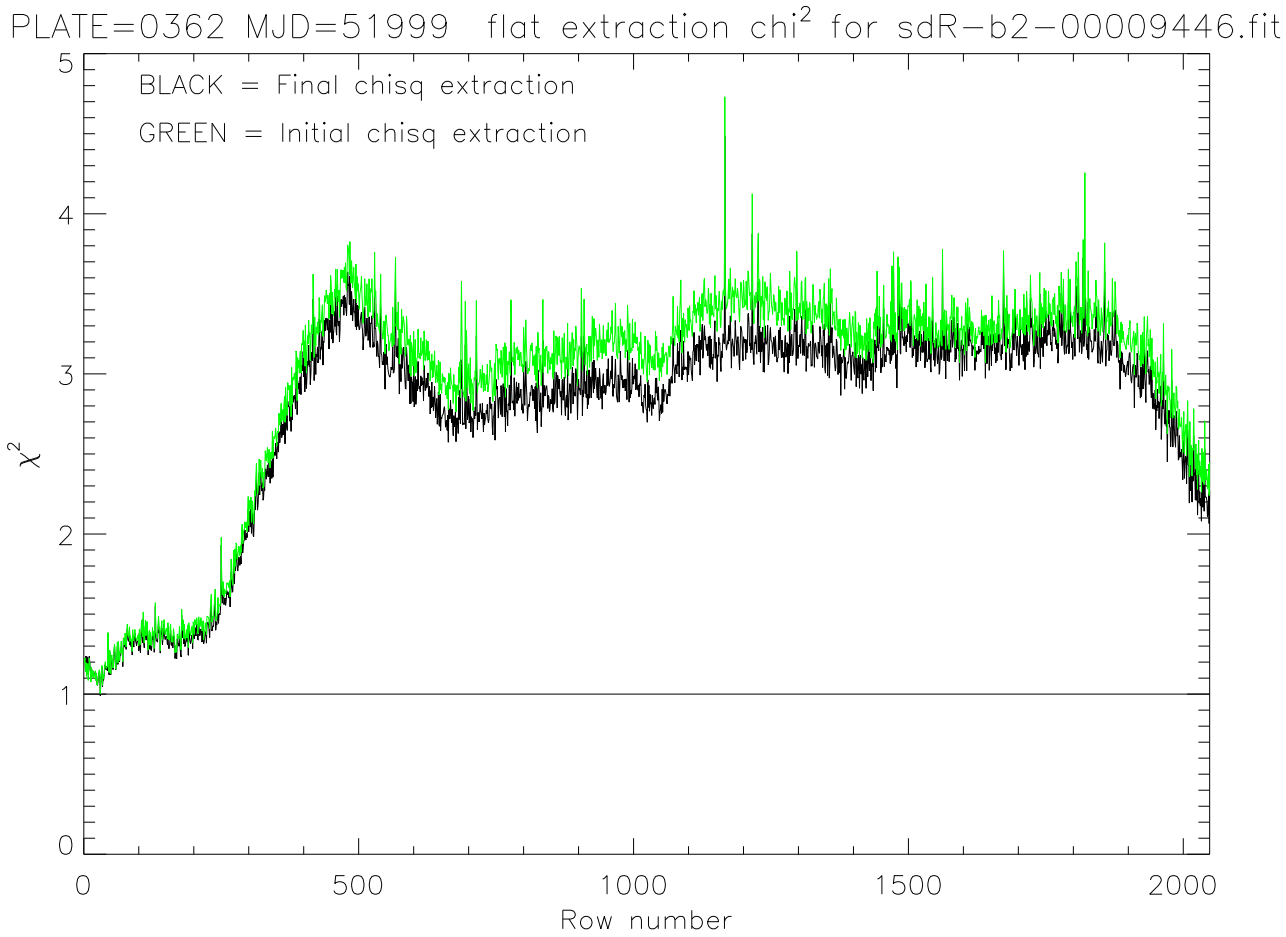

PLATE=0362 MJD=51999 sdR-b1-00009452.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 0.55 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

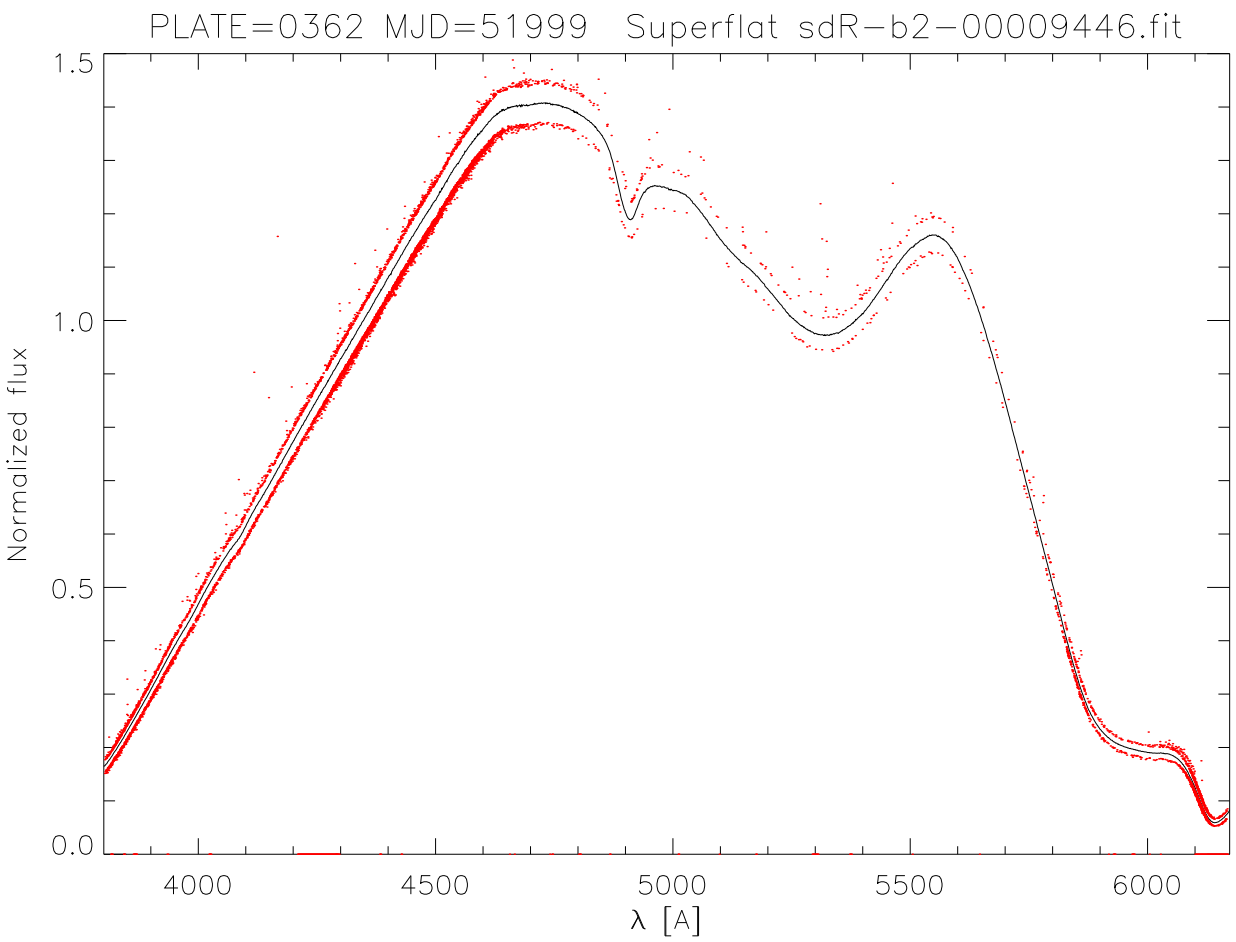

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

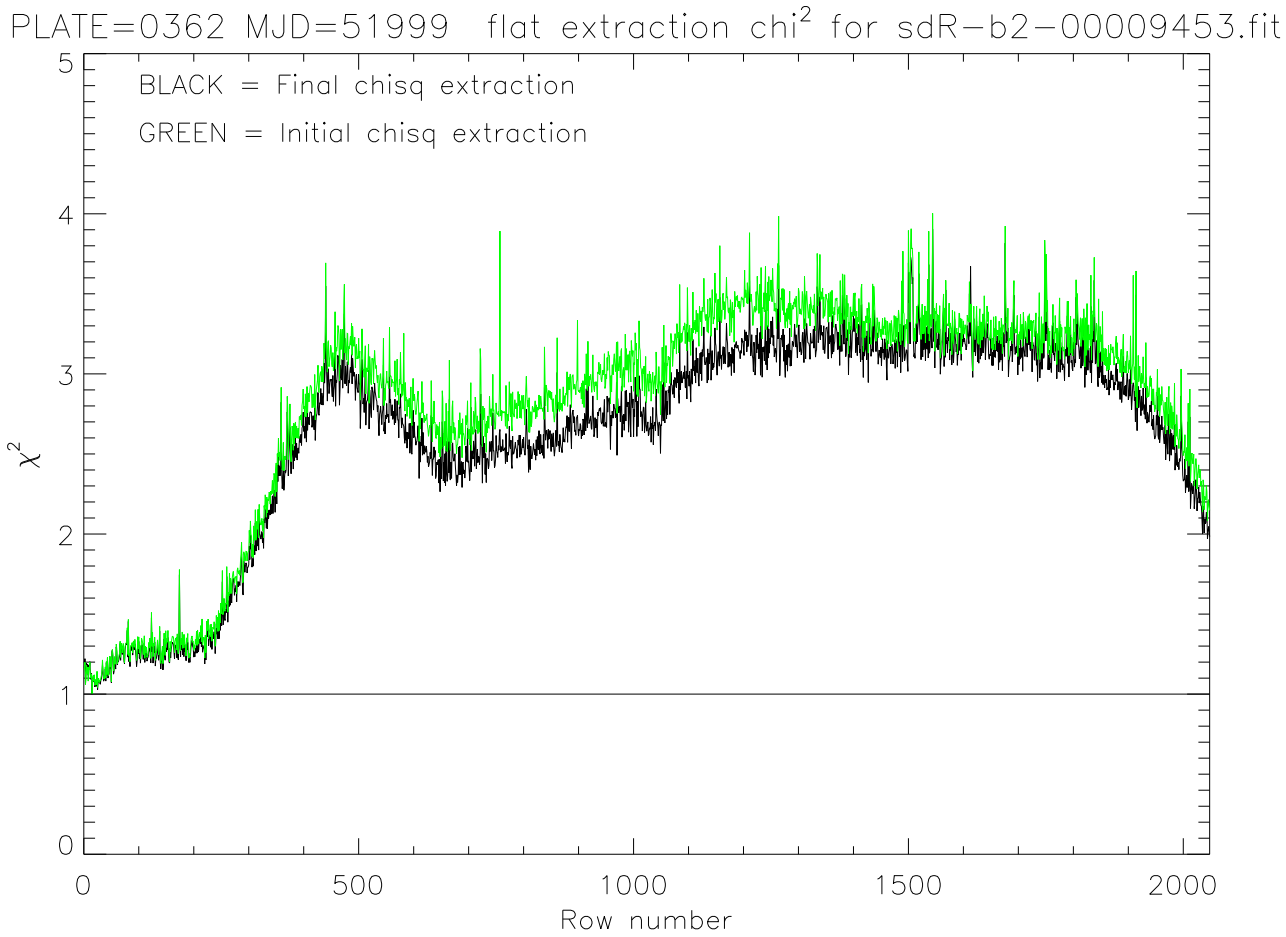

scale coeff residuals from ord=3 poly
2×10^-5
1×10^-5
0
−1×10^-5
−2×10^-5
0
50
100
150
200
250
300
fiber

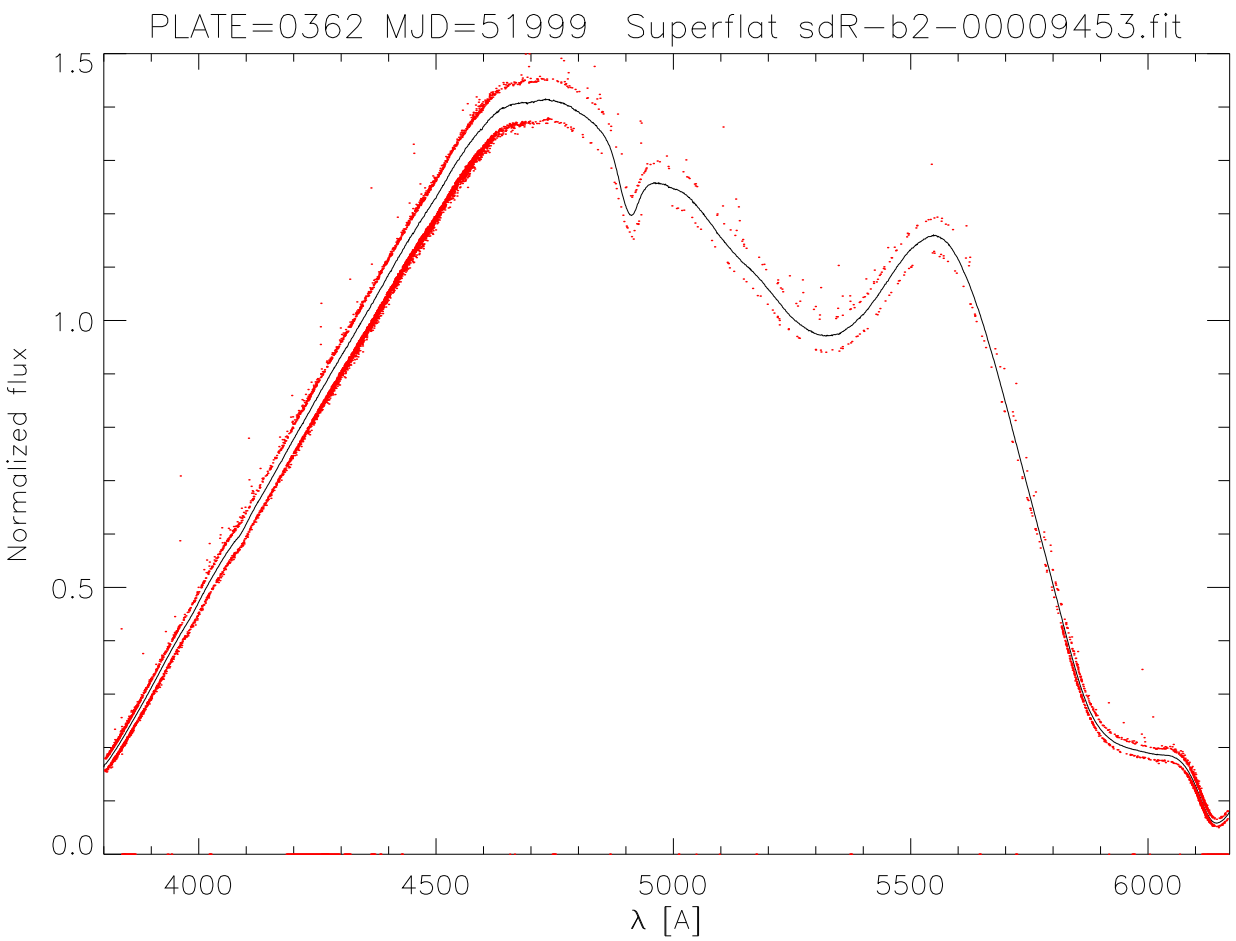

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

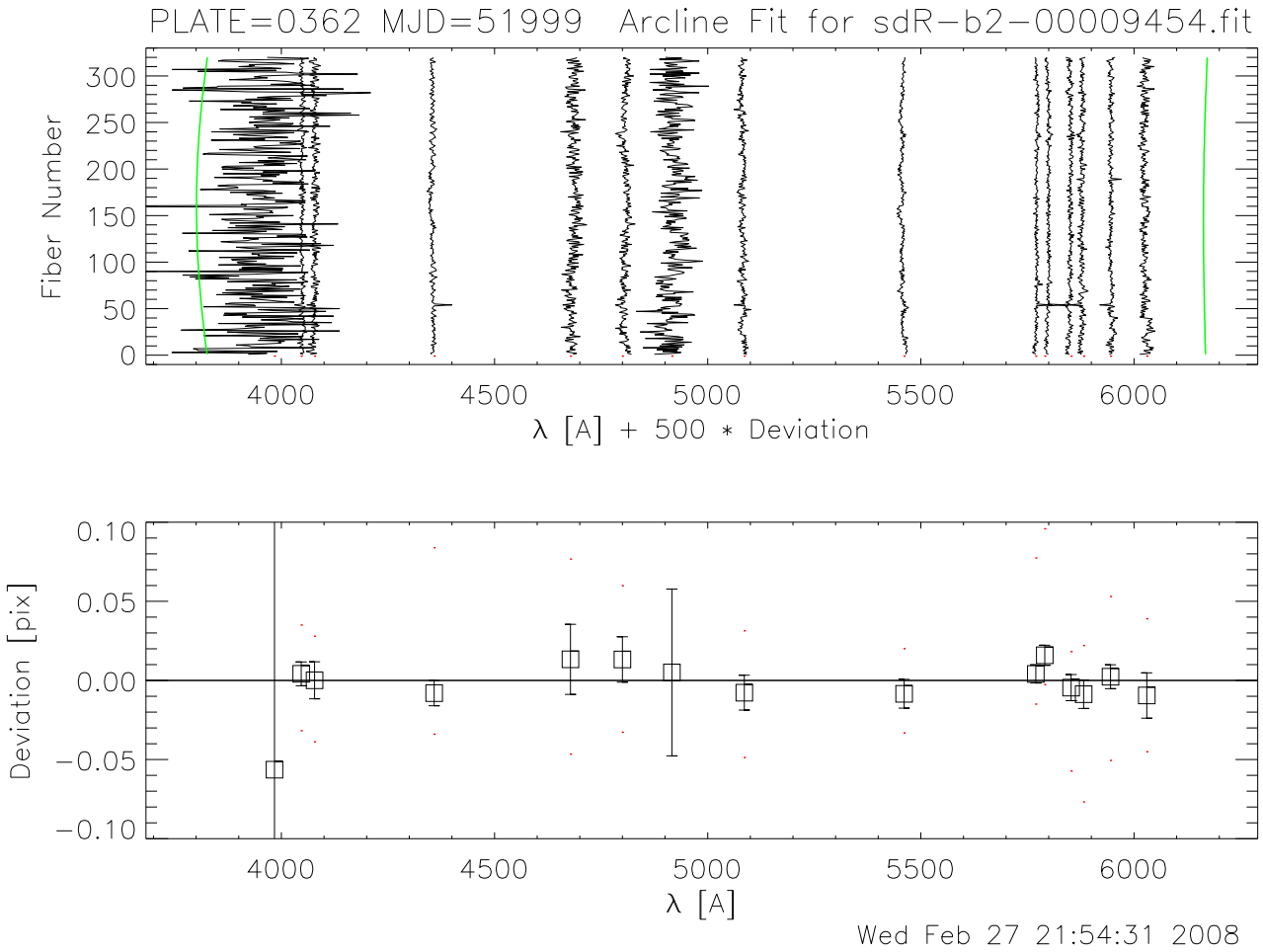

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

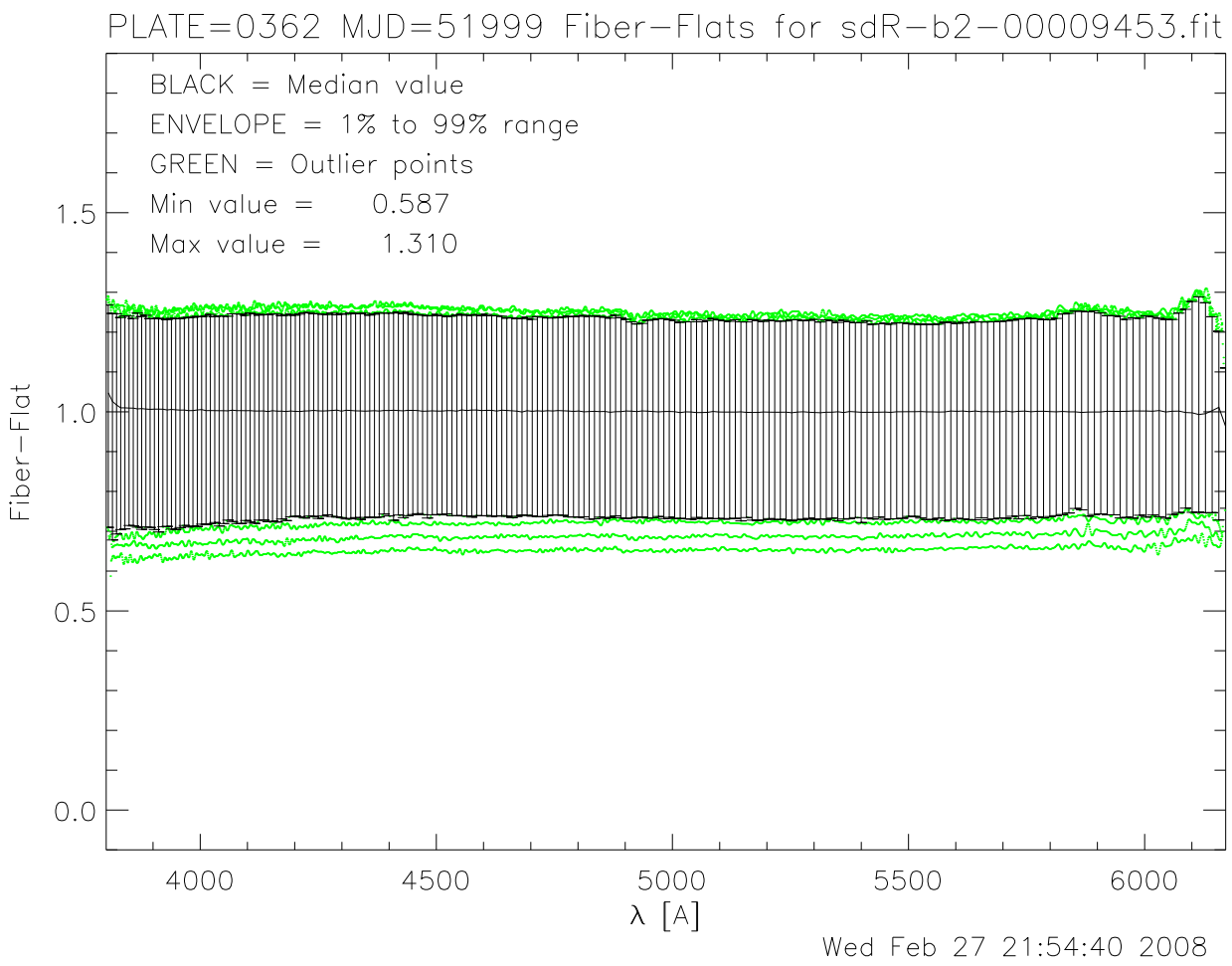

PLATE=0362 MJD=51999 flat extraction chi^2 for sdR-b2-00009446.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
0
500
1000
1500
2000

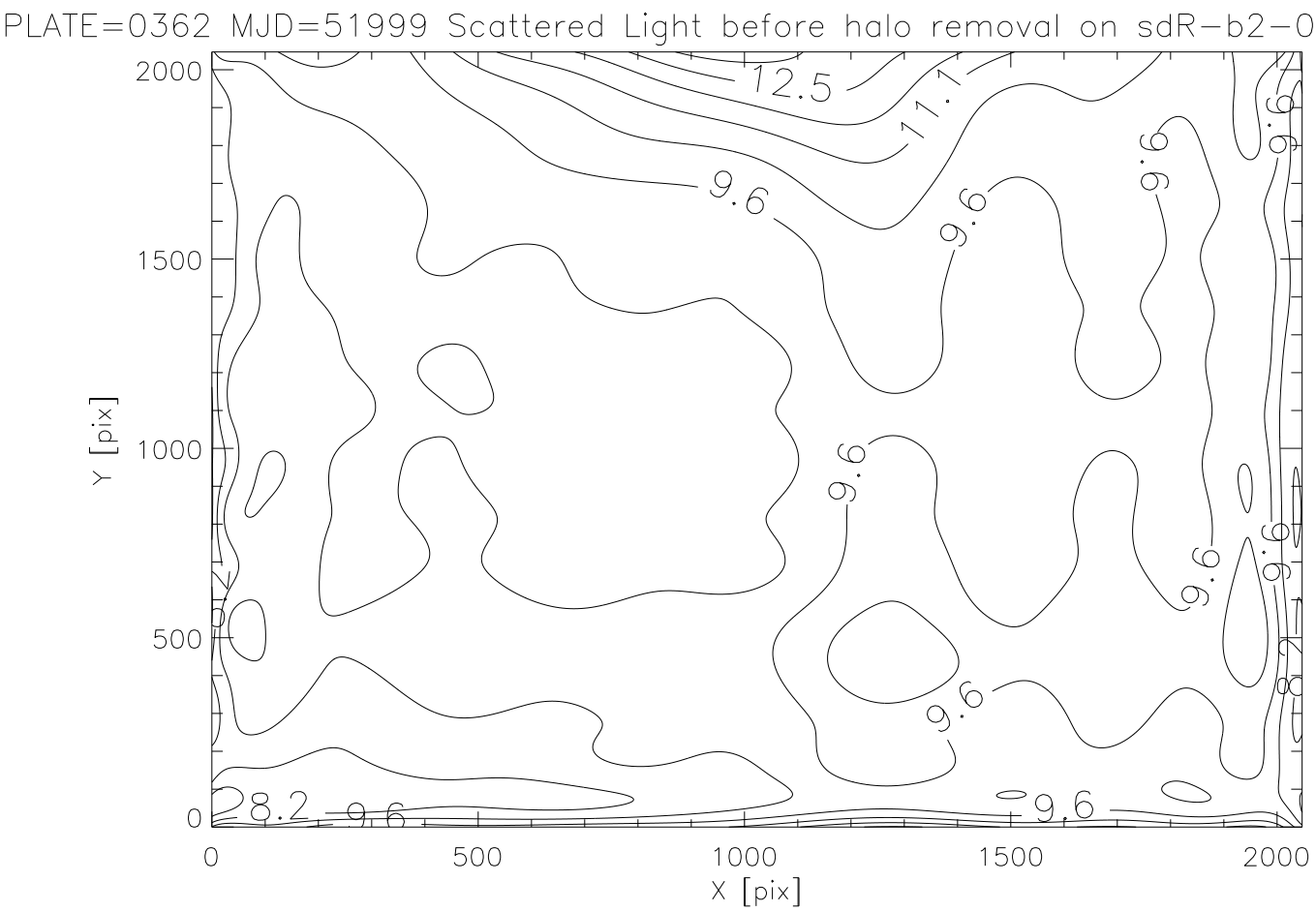

PLATE=0362 MJD=51999 Superflat sdR-b2-00009446.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

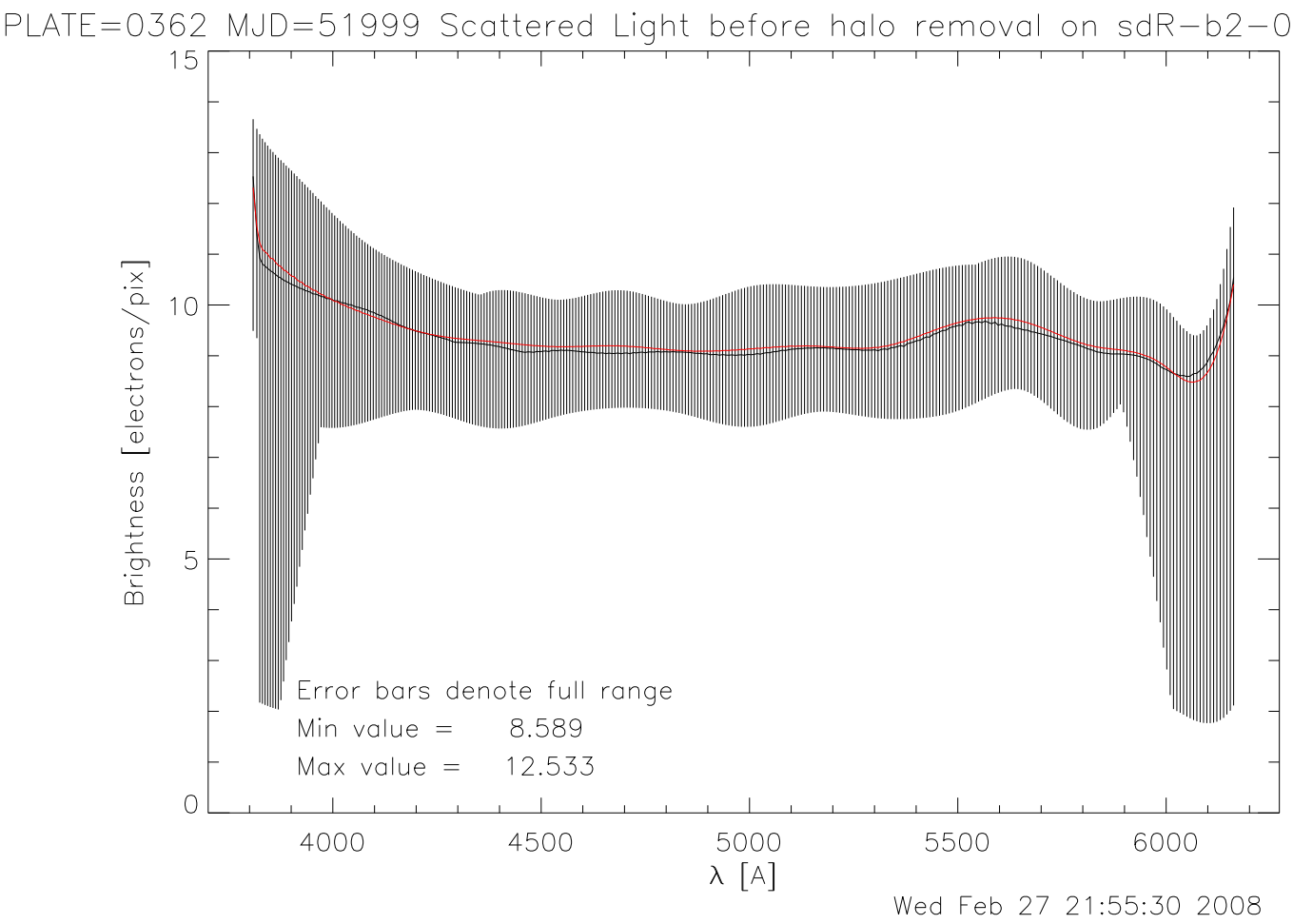

PLATE=0362 MJD=51999 flat extraction chi^2 for sdR−b2−00009453.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
0
500
1000
1500
2000

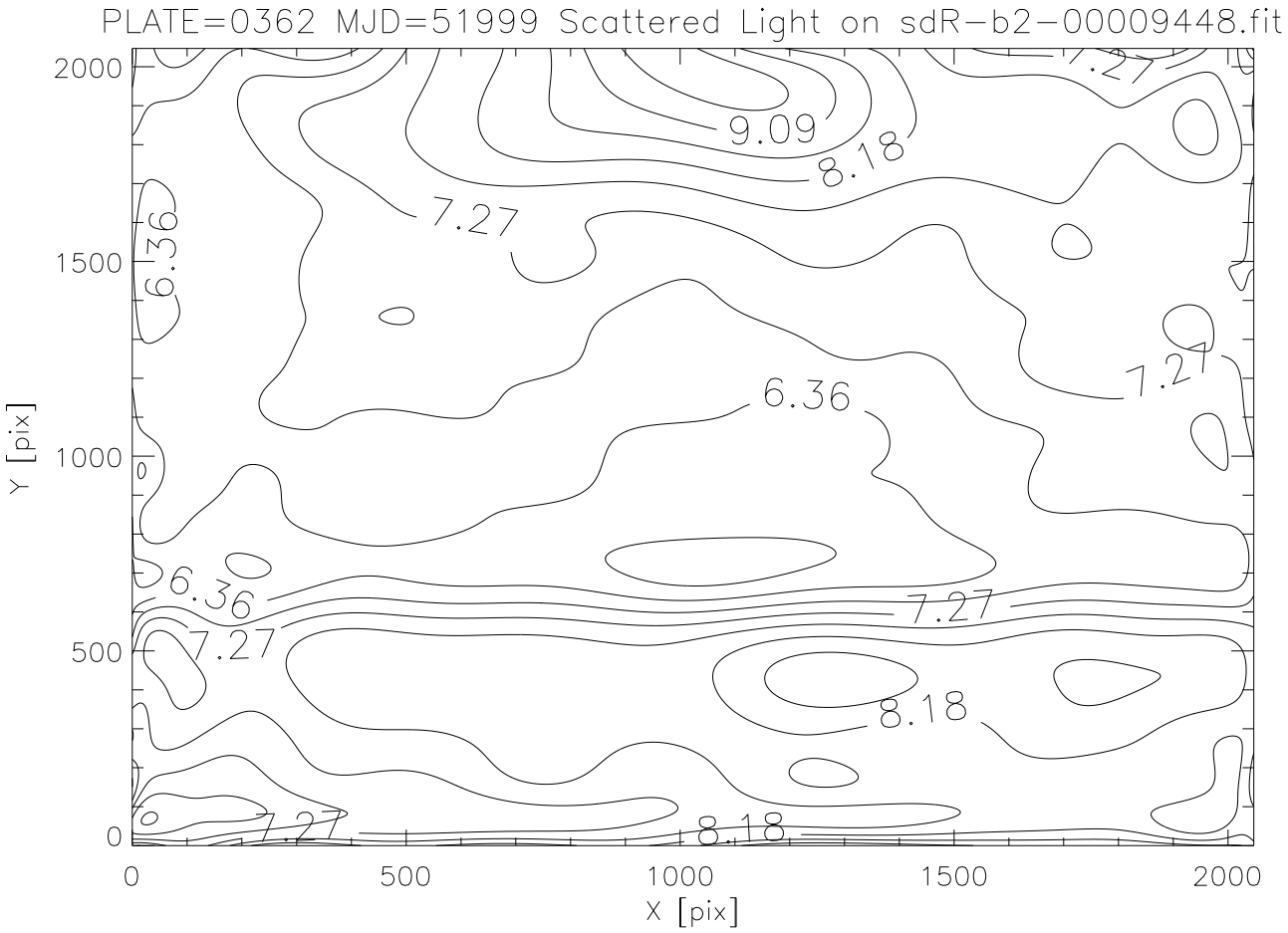

PLATE=0362 MJD=51999 Superflat sdR-b2-00009453.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

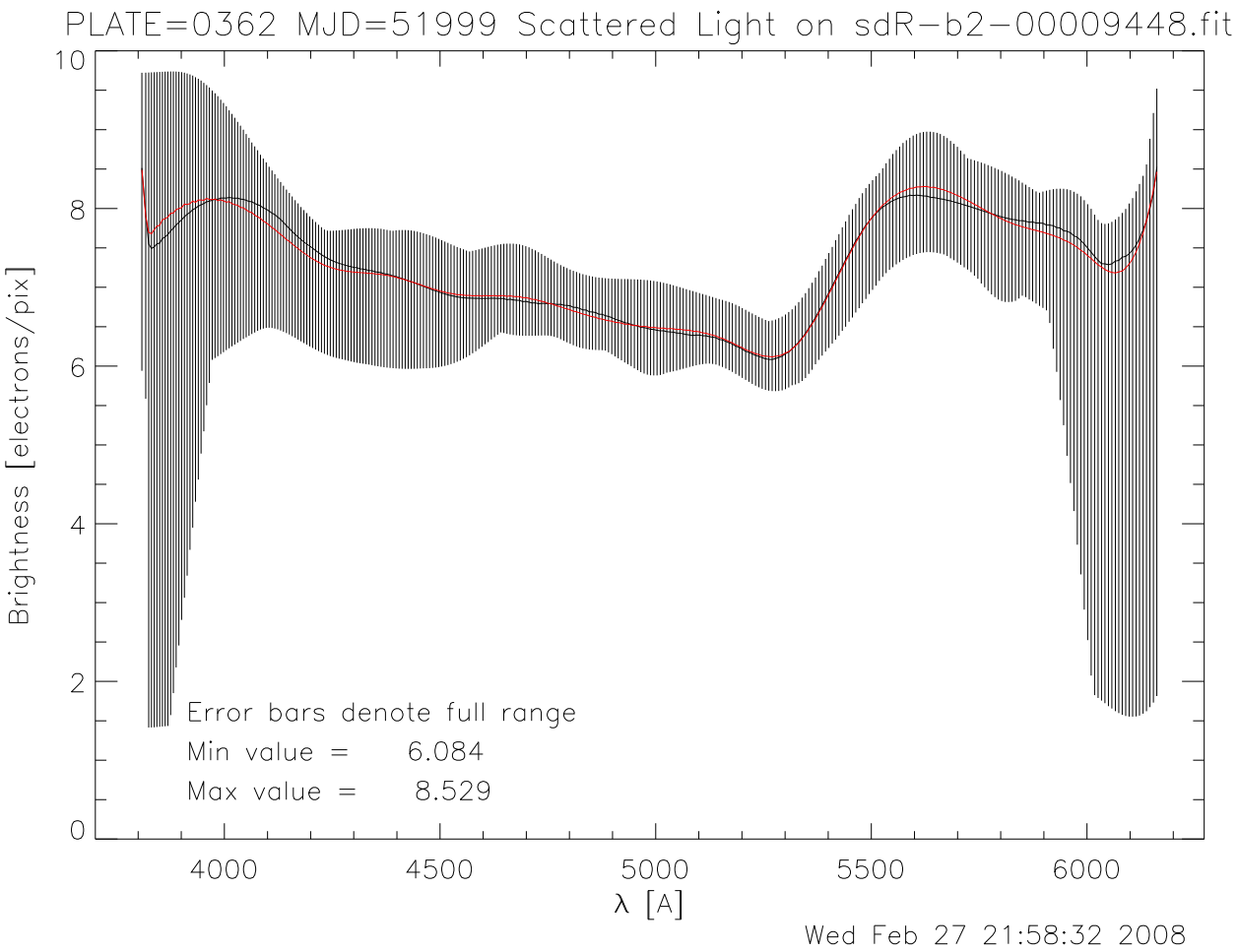

PLATE=0362 MJD=51999 Arcline Fit for sdR-b2-00009454.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:54:31 2008

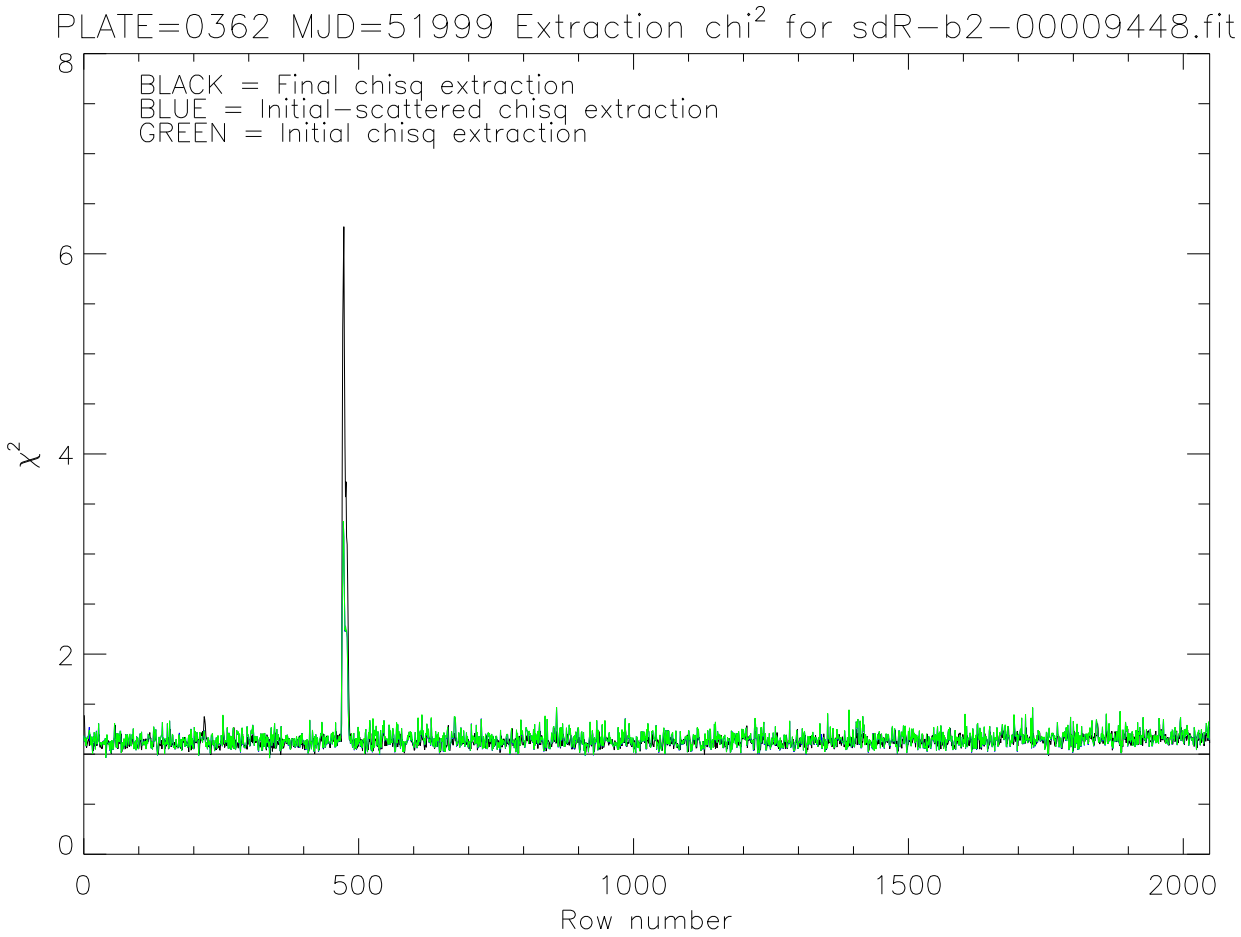

PLATE=0362 MJD=51999 Fiber-Flats for sdR-b2-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.587
Max value = 1.310
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:54:40 2008

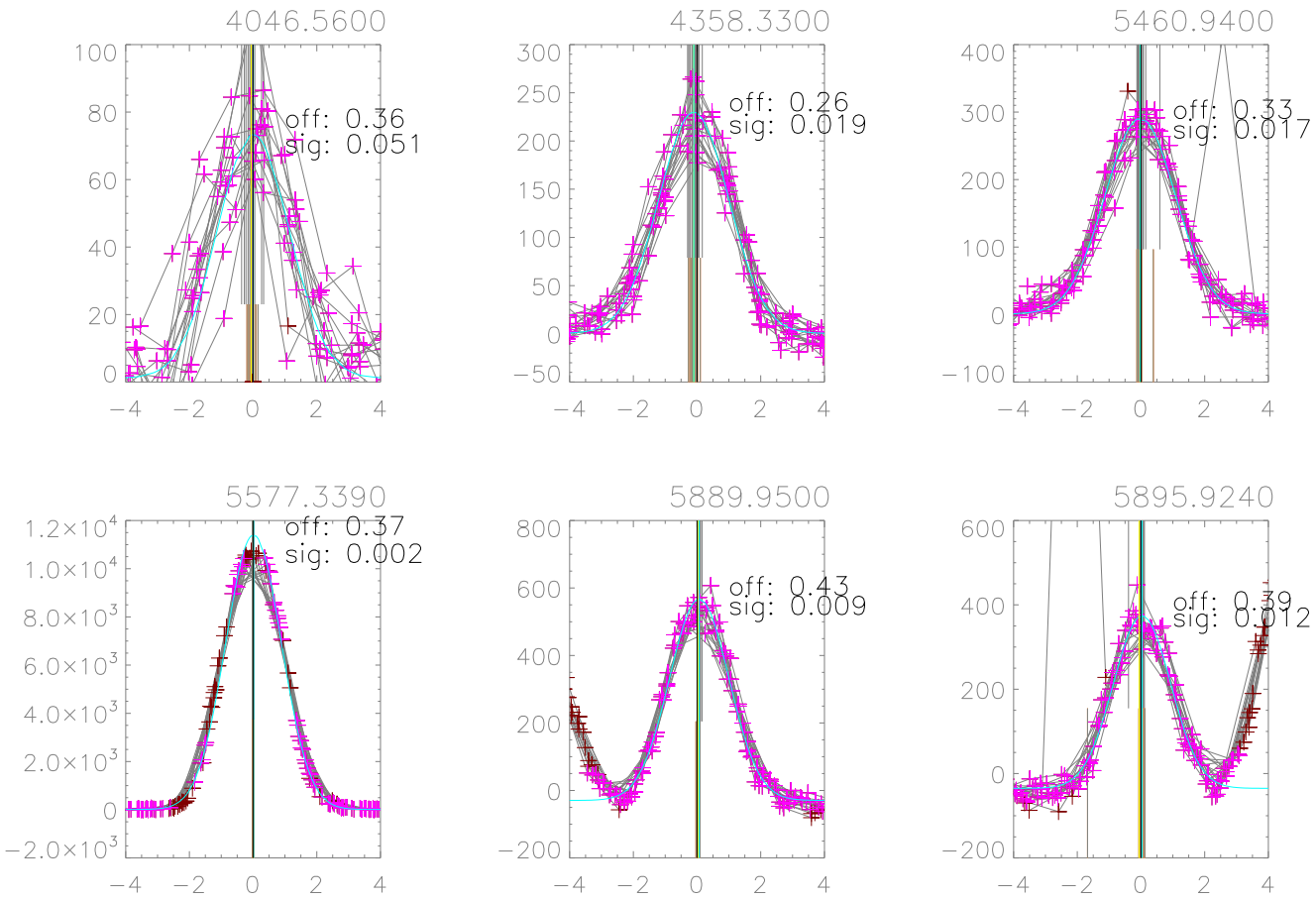

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR−b2−00009448.f
12.5
11.1
9.6
9.6
9.6
9.6
9.6
9.6
9.6
9.6
9.6
8.2
9.6
9.6
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

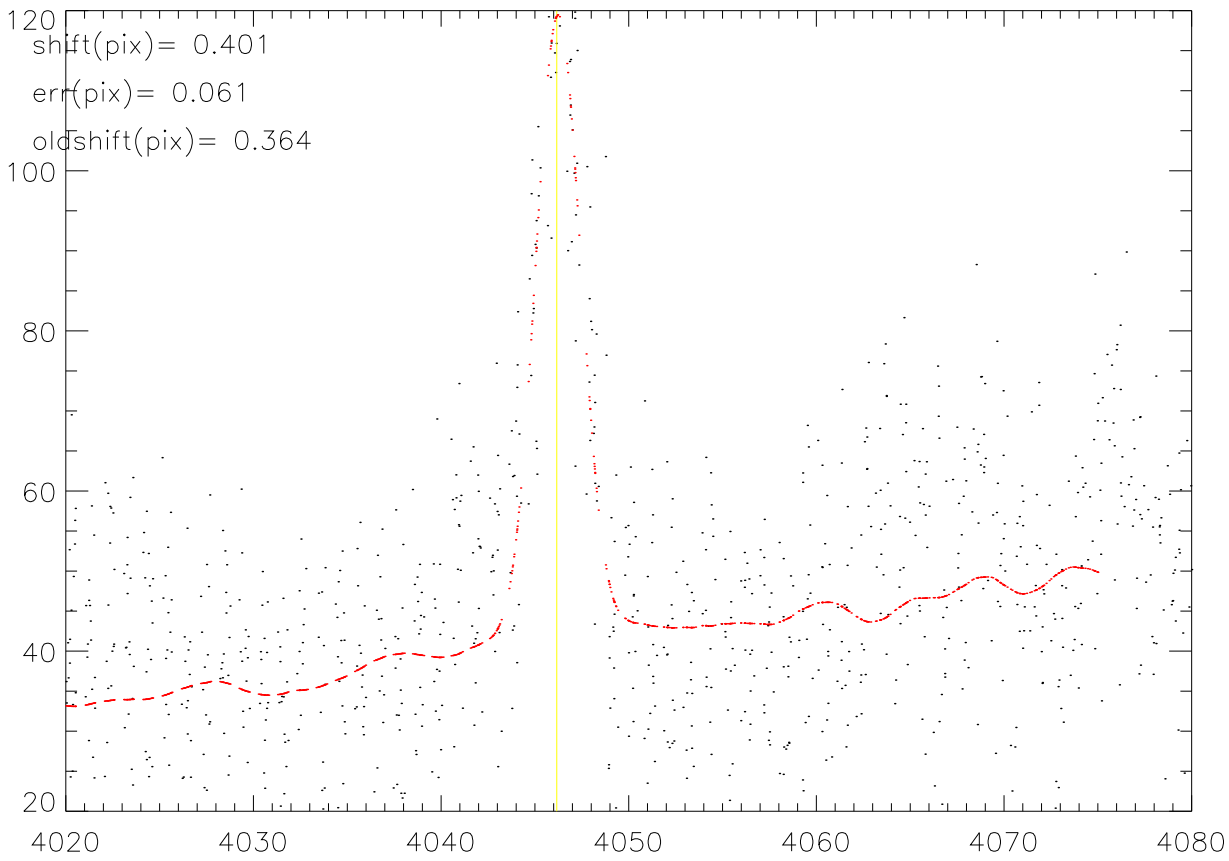

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-b2-00009448.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.589
Max value = 12.533
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:55:30 2008

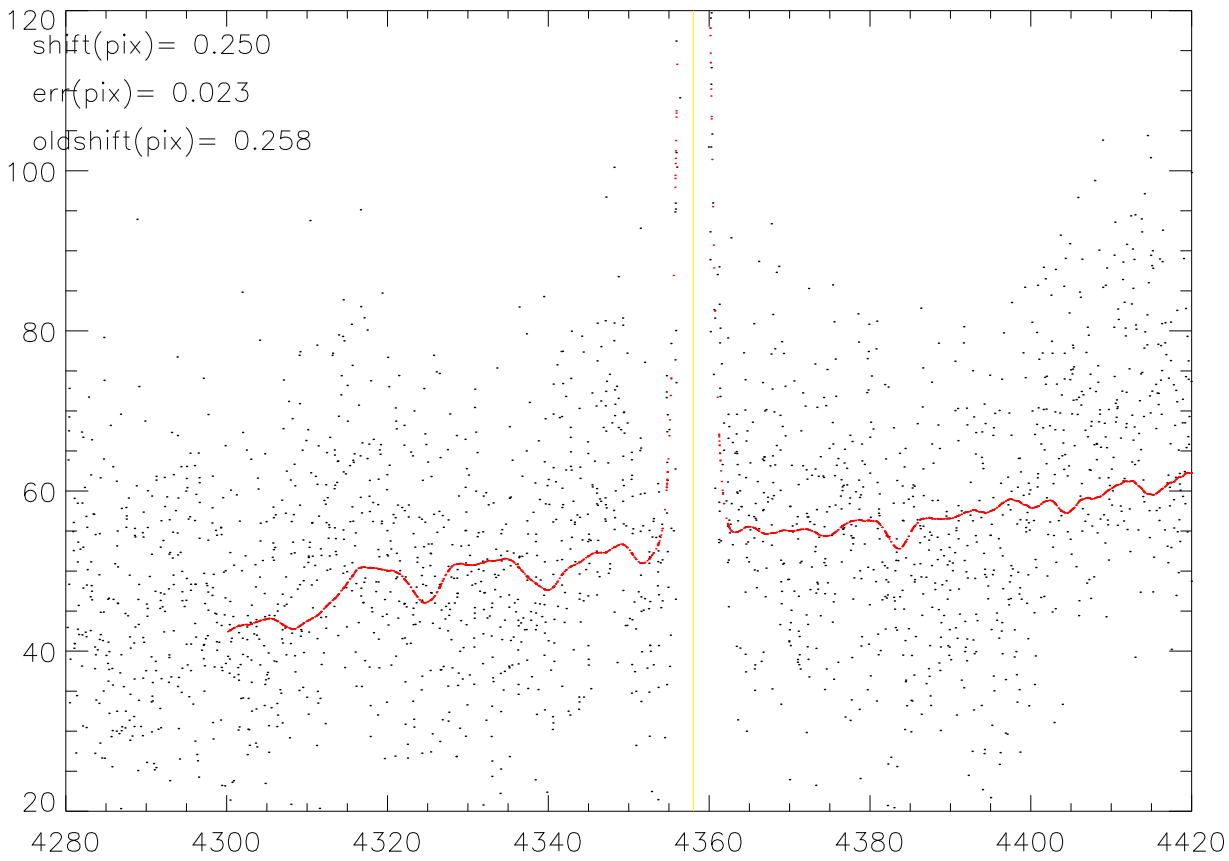

PLATE=0362 MJD=51999 Scattered Light on sdR-b2-00009448.fit
9.09
8.18
7.27
6.36
7.27
6.36
7.27
6.36
7.27
8.18
7.27
8.18
Y [pix]
X [pix]
0
500
1000
1500
2000

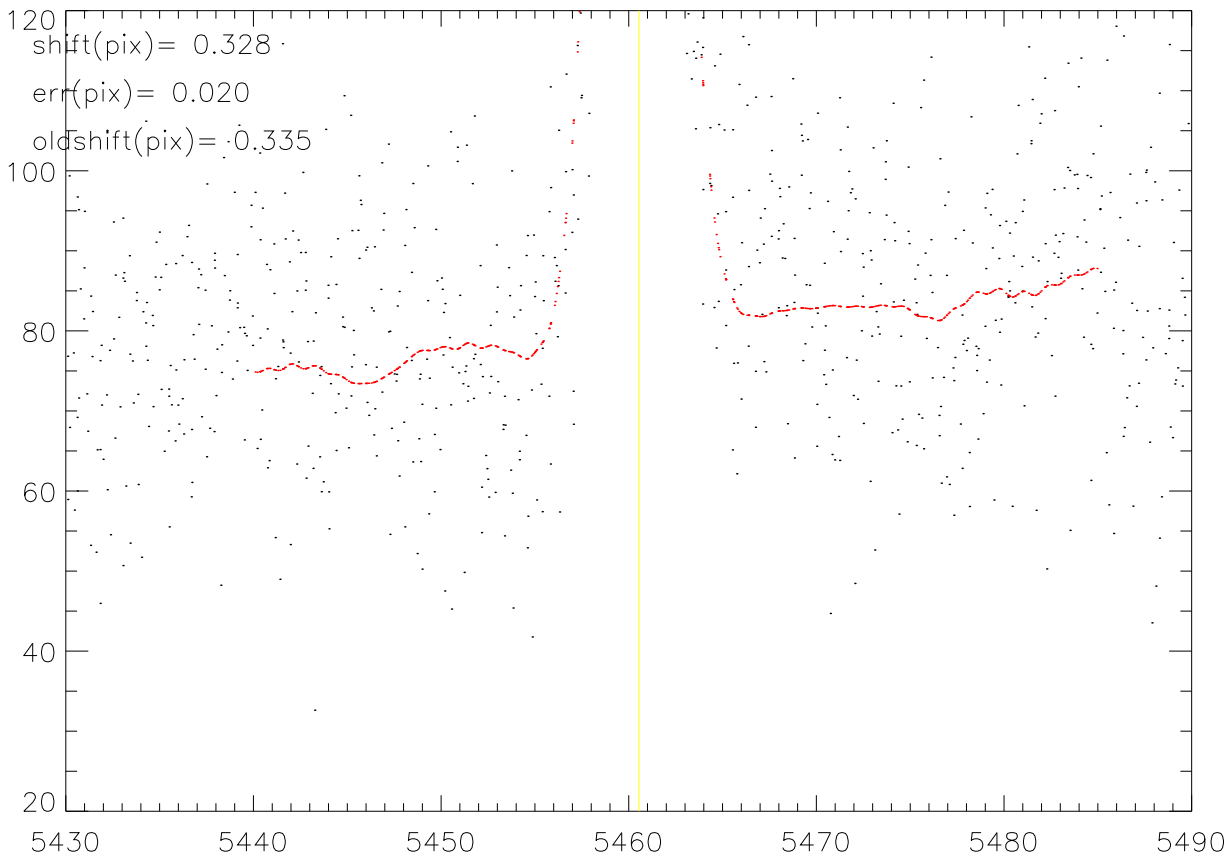

PLATE=0362 MJD=51999 Scattered Light on sdR-b2-00009448.fit
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 6.084
Max value = 8.529
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:58:32 2008

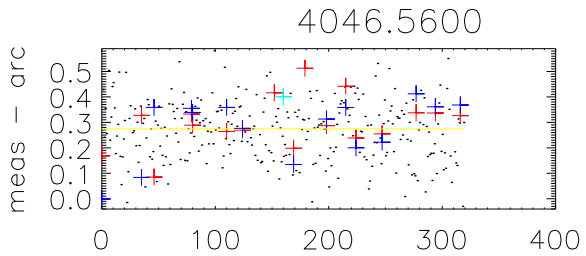

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-b2-00009448.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

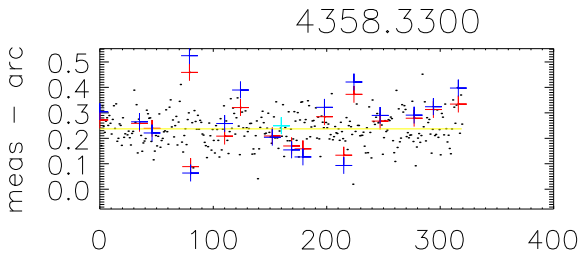

4046.5600
off: 0.36
sig: 0.051
4358.3300
off: 0.26
sig: 0.019
5460.9400
off: 0.33
sig: 0.017
5577.3390
off: 0.37
sig: 0.002
5889.9500
off: 0.43
sig: 0.009
5895.9240
off: 0.39
sig: 0.012

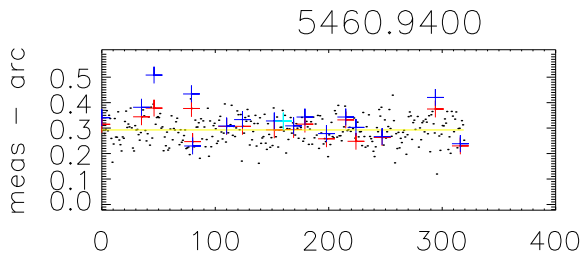

shift(pix)= 0.401
err(pix)= 0.061
oldshift(pix)= 0.364
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

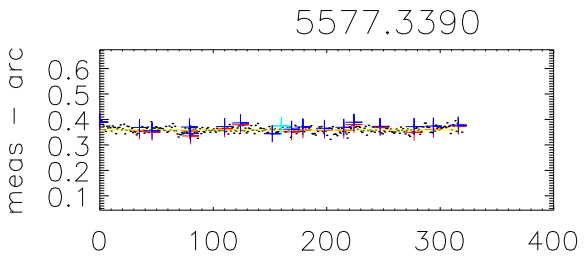

shift(pix)= 0.250
err(pix)= 0.023
oldshift(pix)= 0.258
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

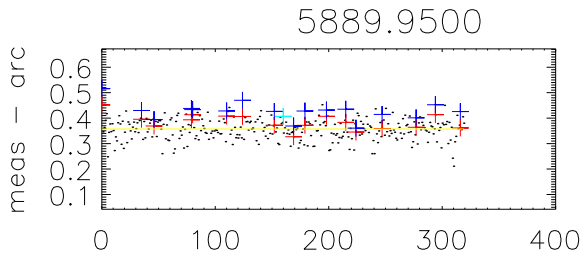

shift(pix)= 0.328
err(pix)= 0.020
oldshift(pix)= 0.335
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

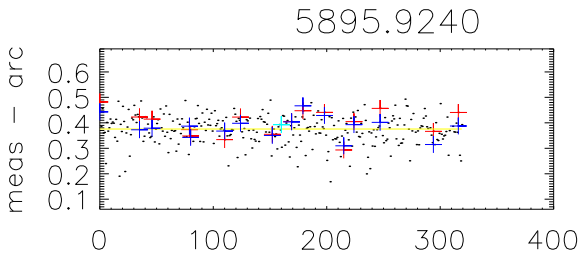

4046.5600
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

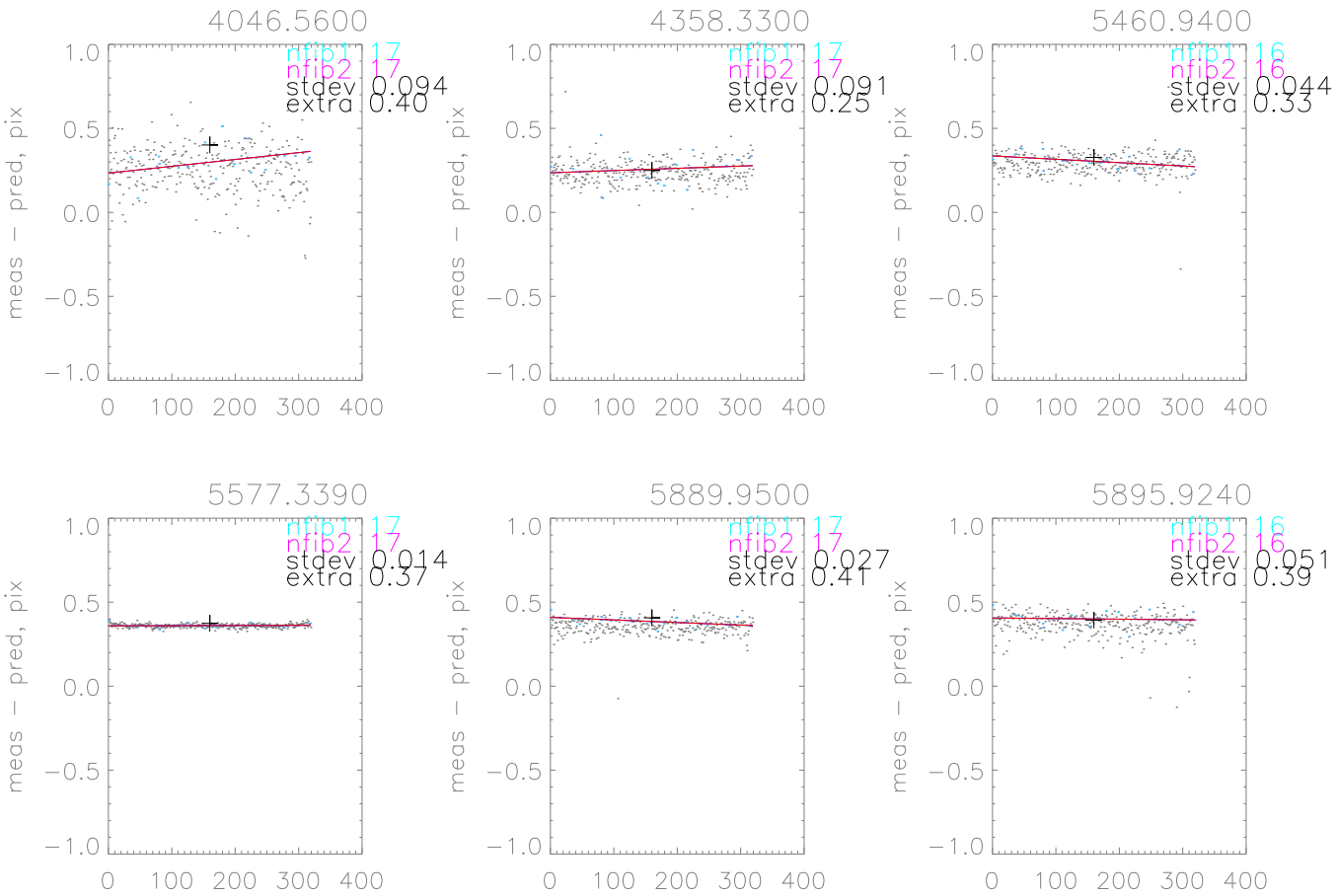

4358.3300
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

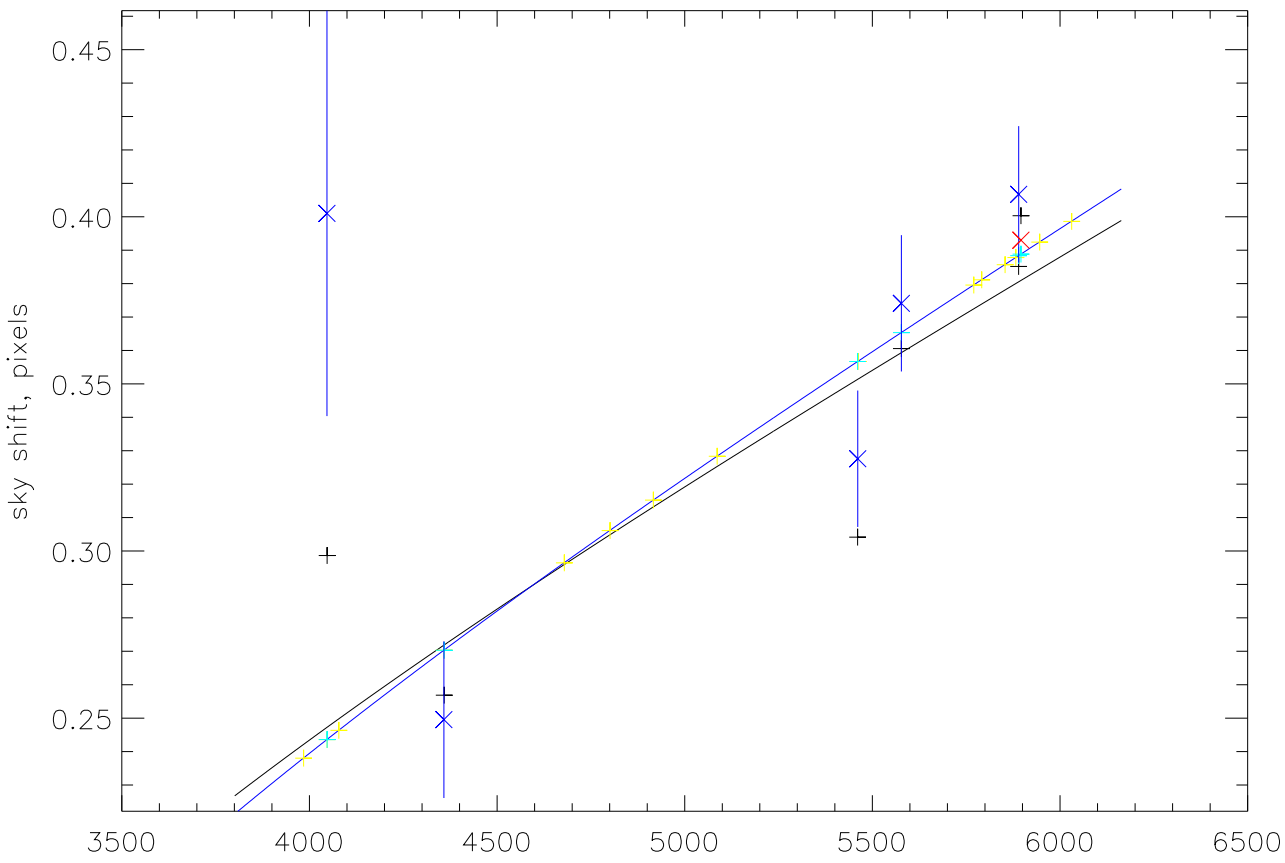

5460.9400
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

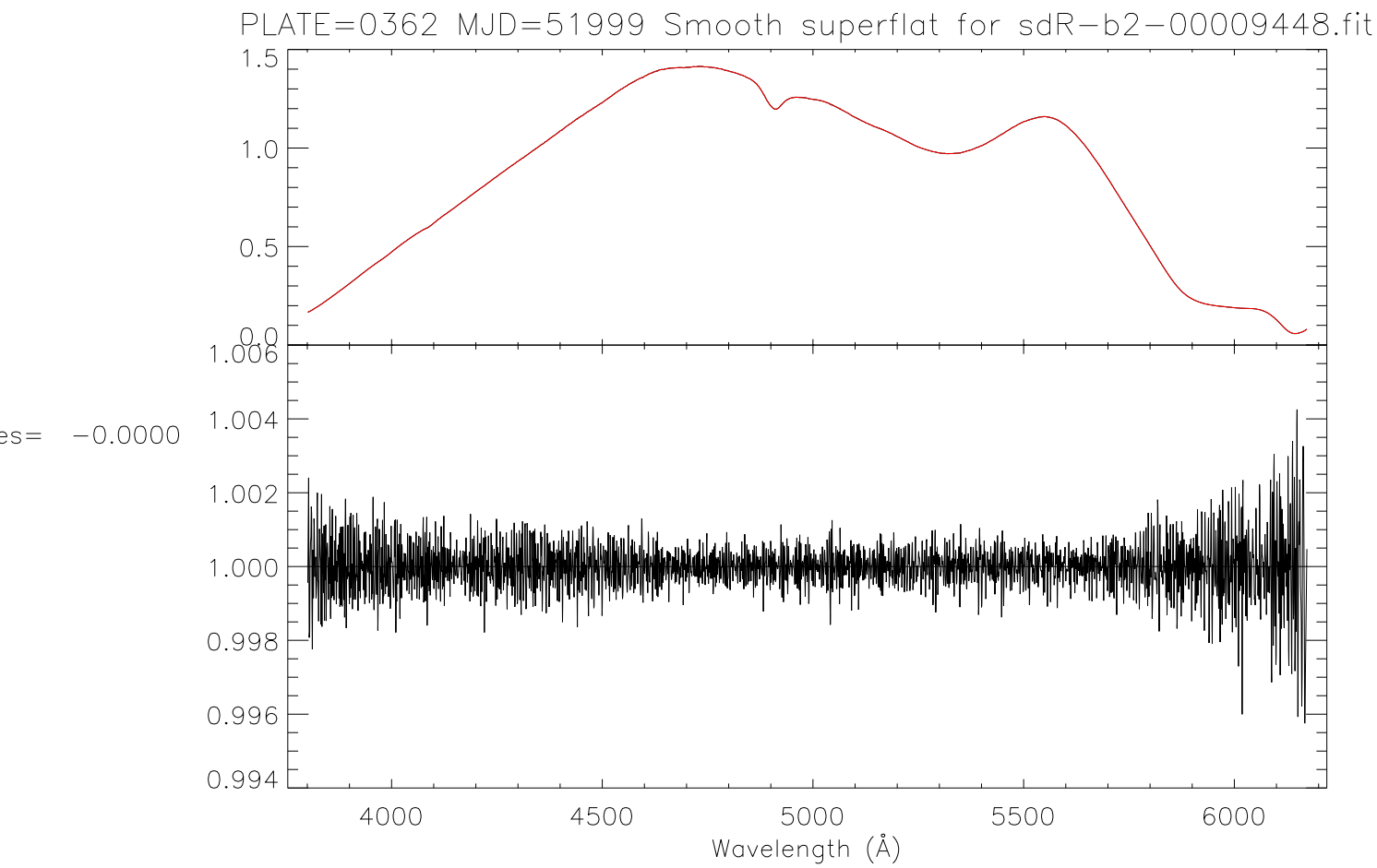

5577.3390
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400


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

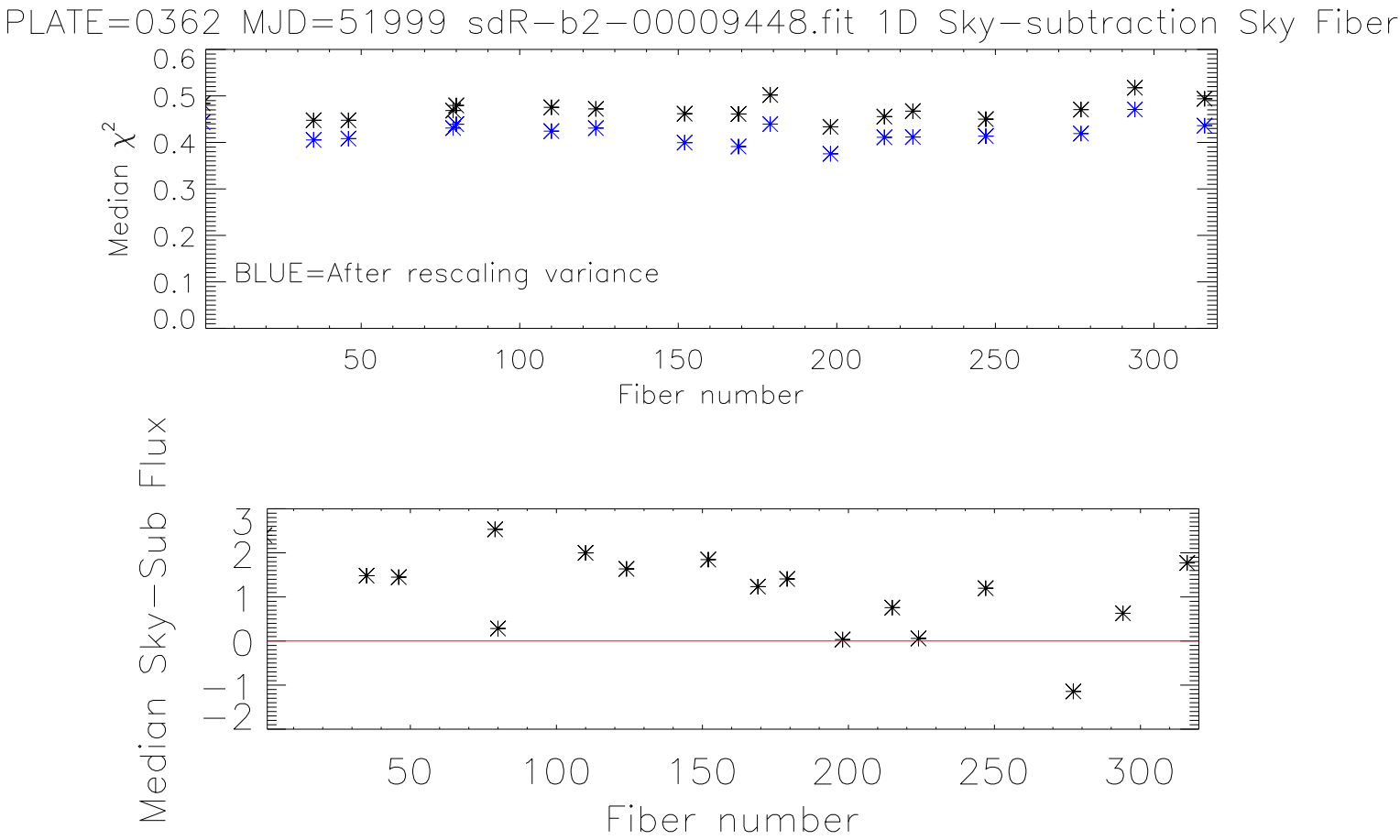

5895.9240
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

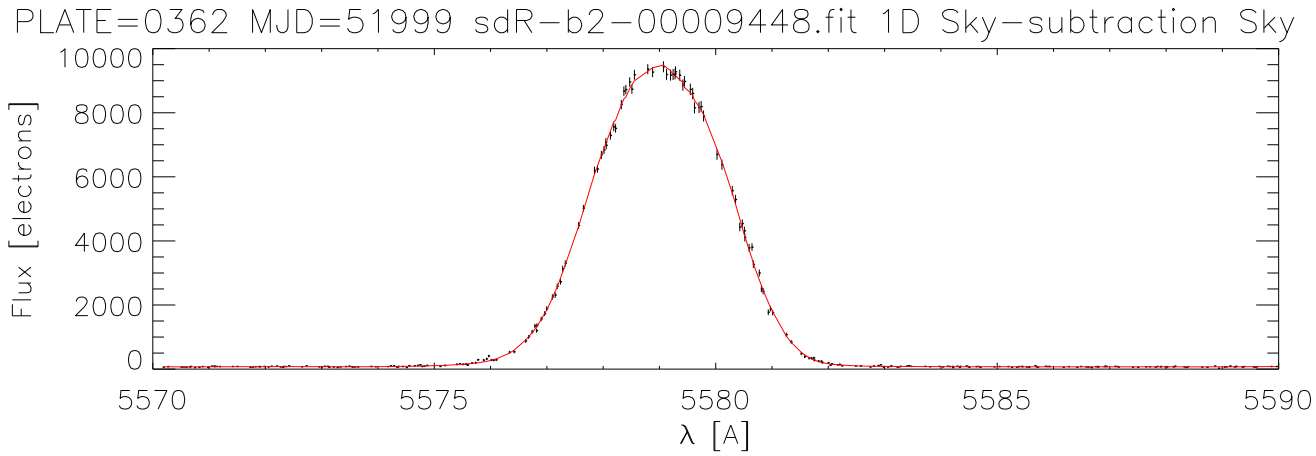

4046.5600
nfib1 17
nfib2 17
stdev 0.094
extra 0.40
4358.3300
nfib1 17
nfib2 17
stdev 0.091
extra 0.25
5460.9400
nfib1 16
nfib2 16
stdev 0.044
extra 0.33
5577.3390
nfib1 17
nfib2 17
stdev 0.014
extra 0.37
5889.9500
nfib1 17
nfib2 17
stdev 0.027
extra 0.41
5895.9240
nfib1 16
nfib2 16
stdev 0.051
extra 0.39
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

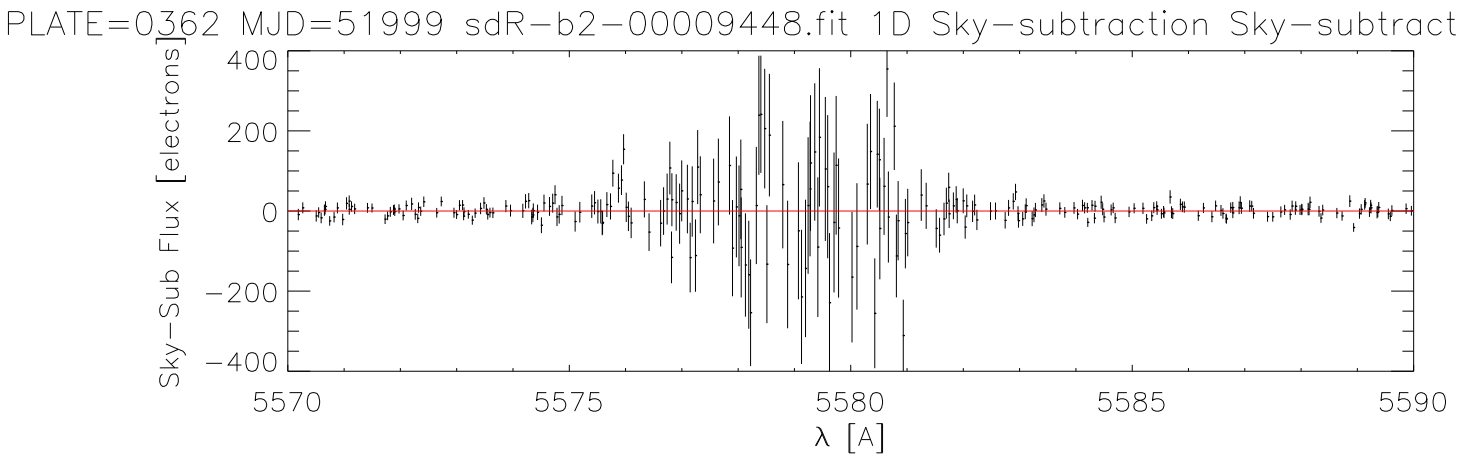

sky shift, pixels
0.45
0.40
0.35
0.30
0.25
3500
4000
4500
5000
5500
6000
6500

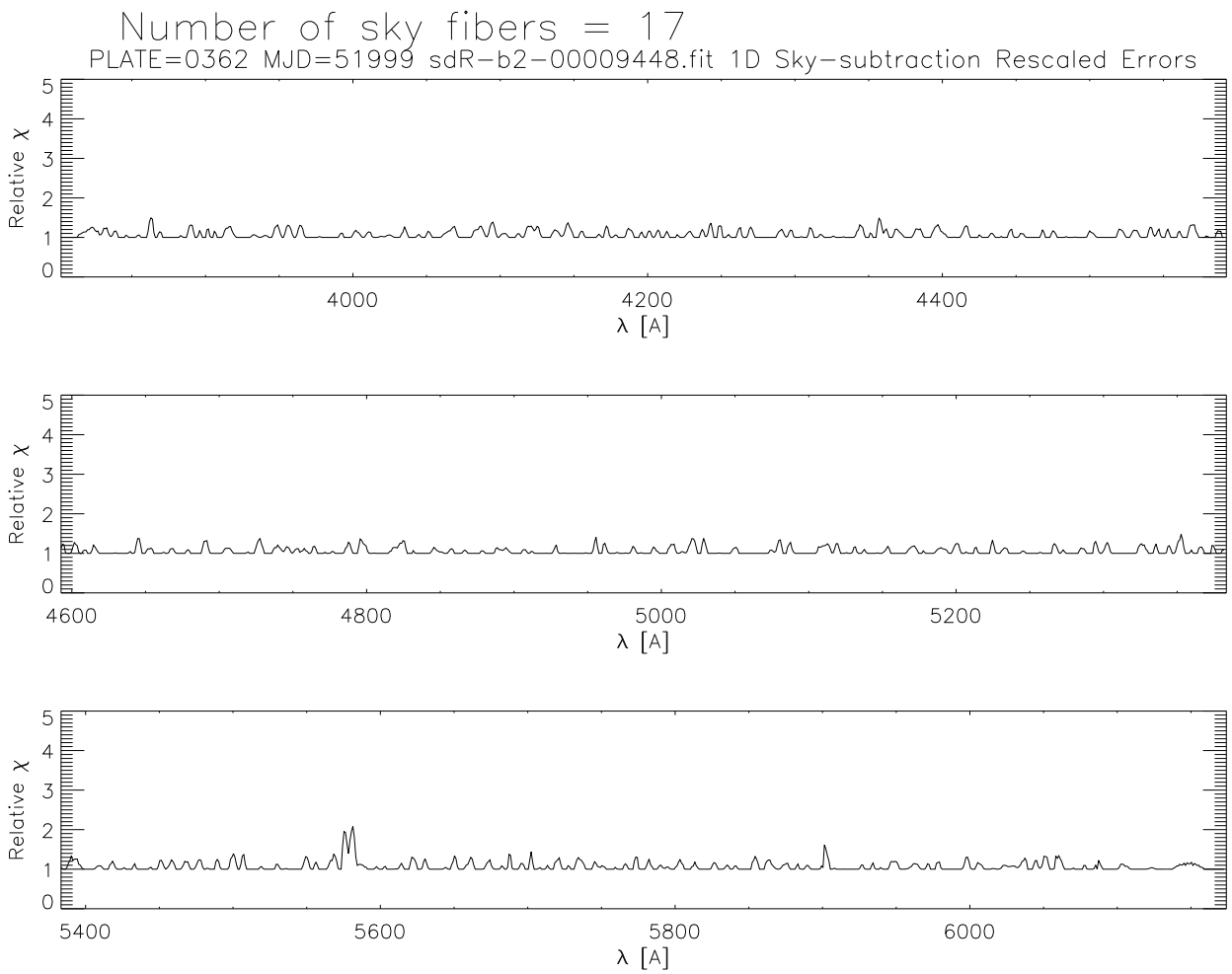

PLATE=0362 MJD=51999 Smooth superflat for sdR-b2-00009448.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

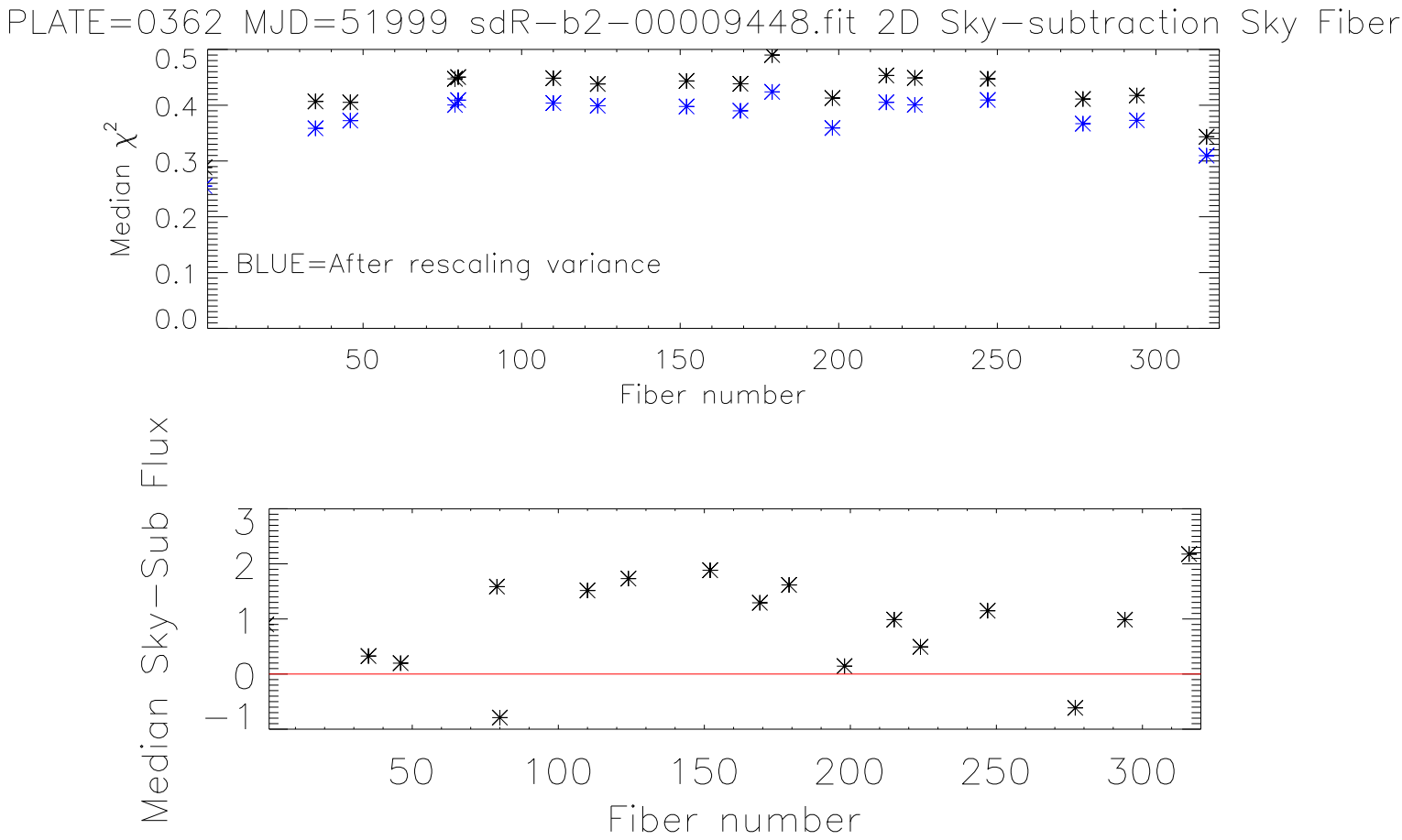
es= −0.0000

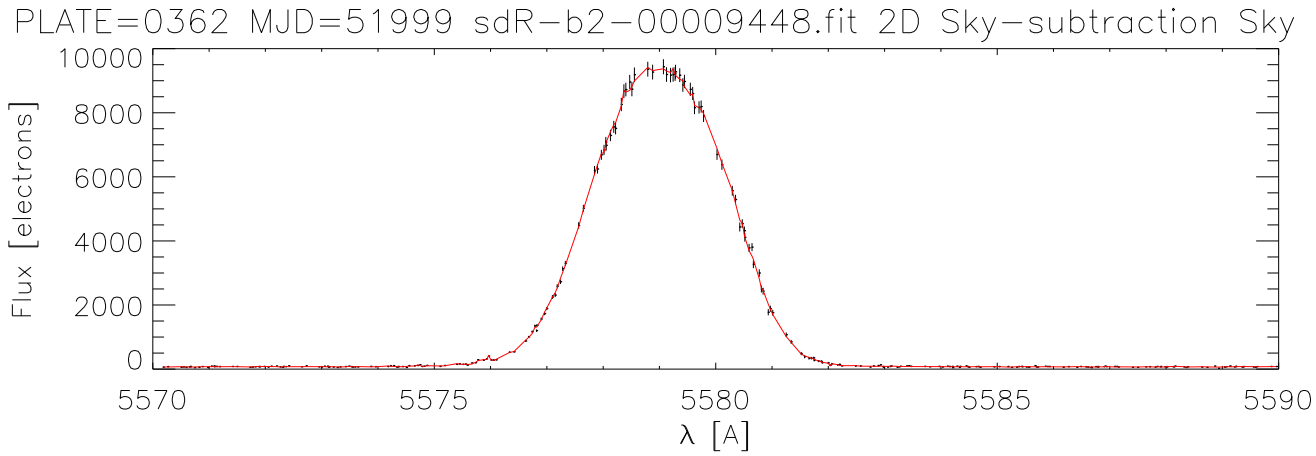

PLATE=0362 MJD=51999 sdR-b2-00009448.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

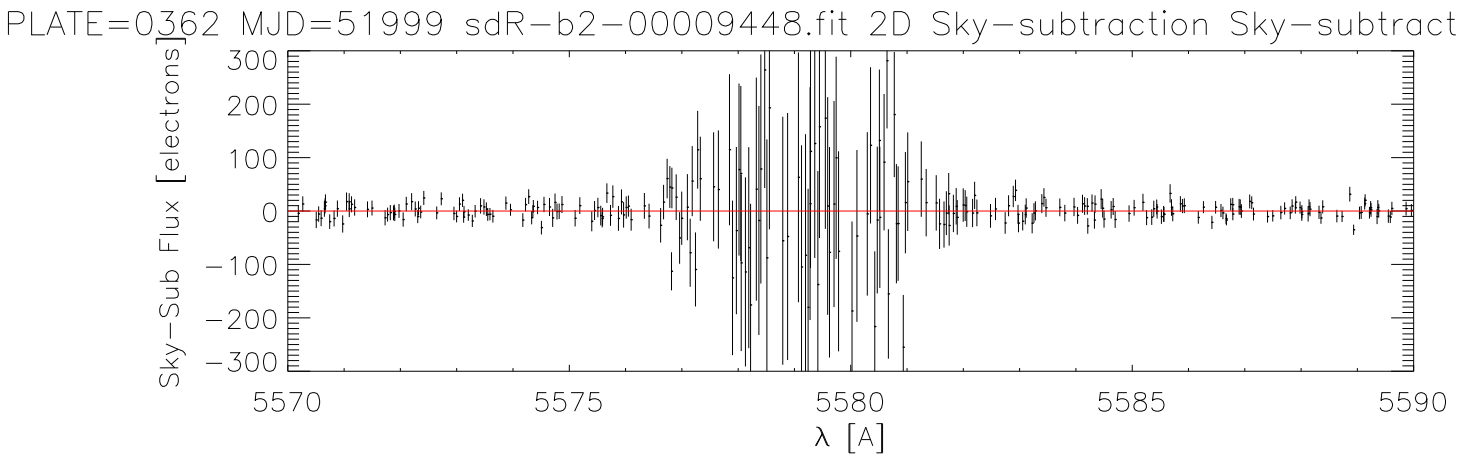

PLATE=0362 MJD=51999 sdR-b2-00009448.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

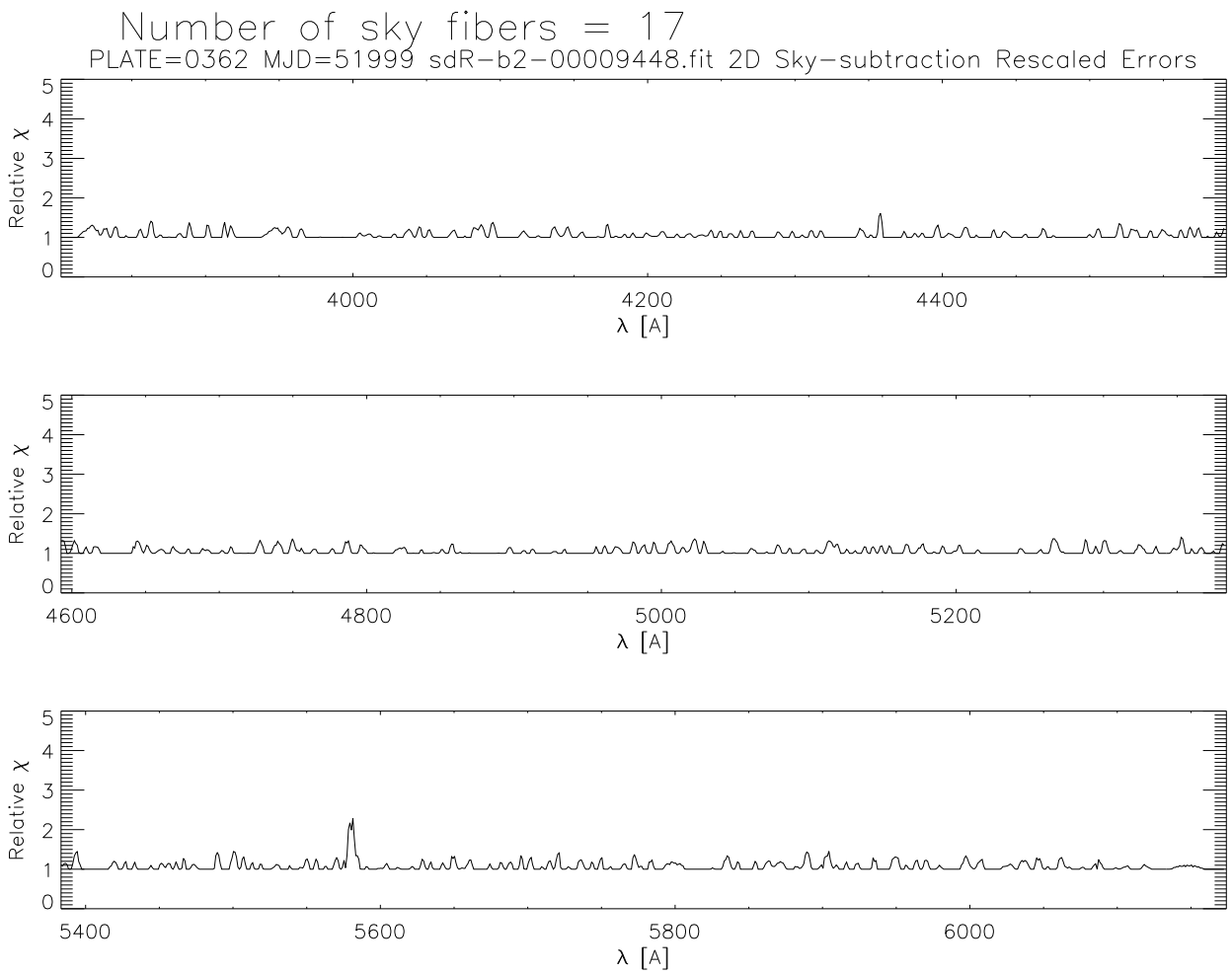

PLATE=0362 MJD=51999 sdR-b2-00009448.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

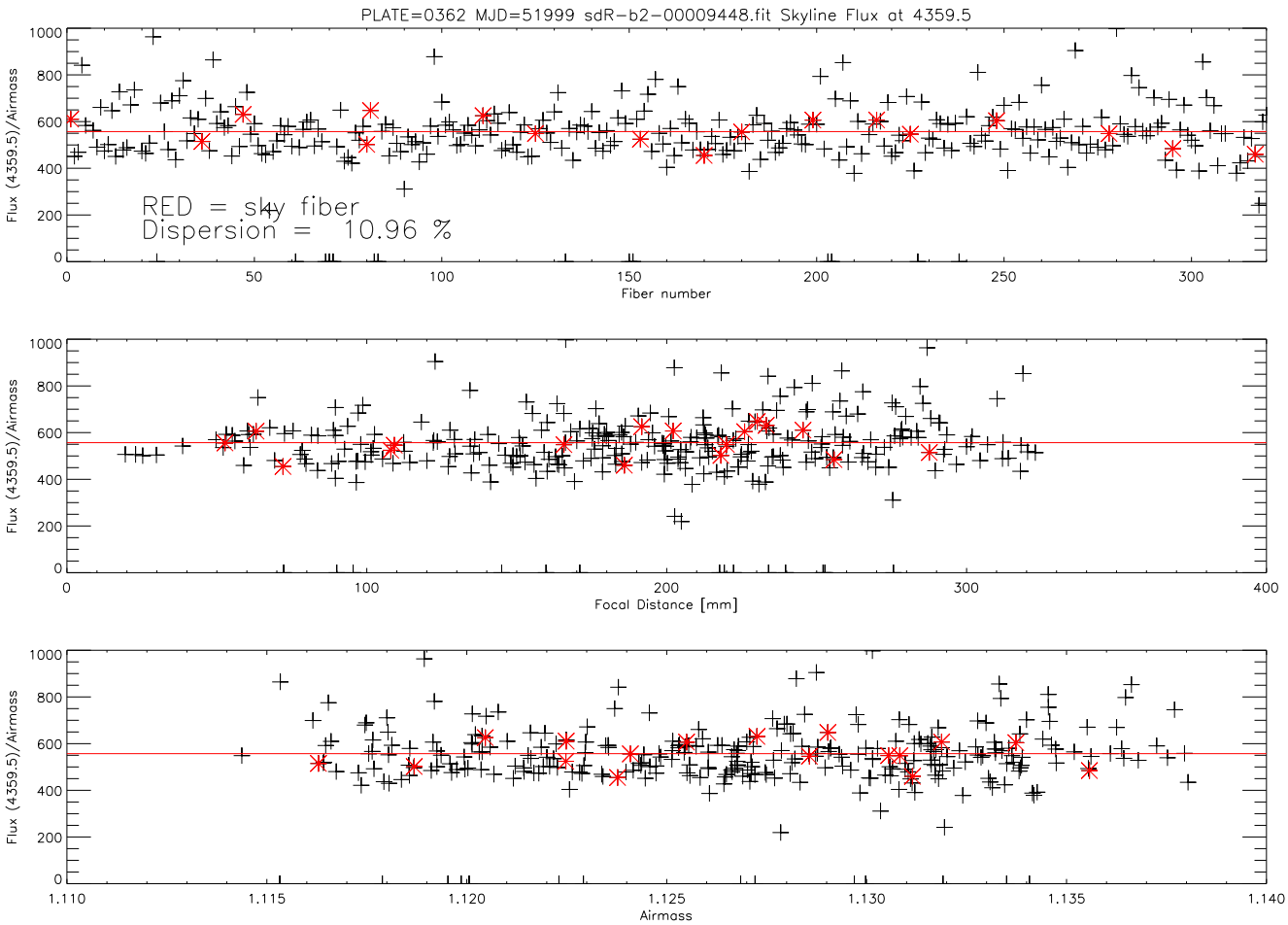

Number of sky fibers = 17
PLATE=0362 MJD=51999 sdR-b2-00009448.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

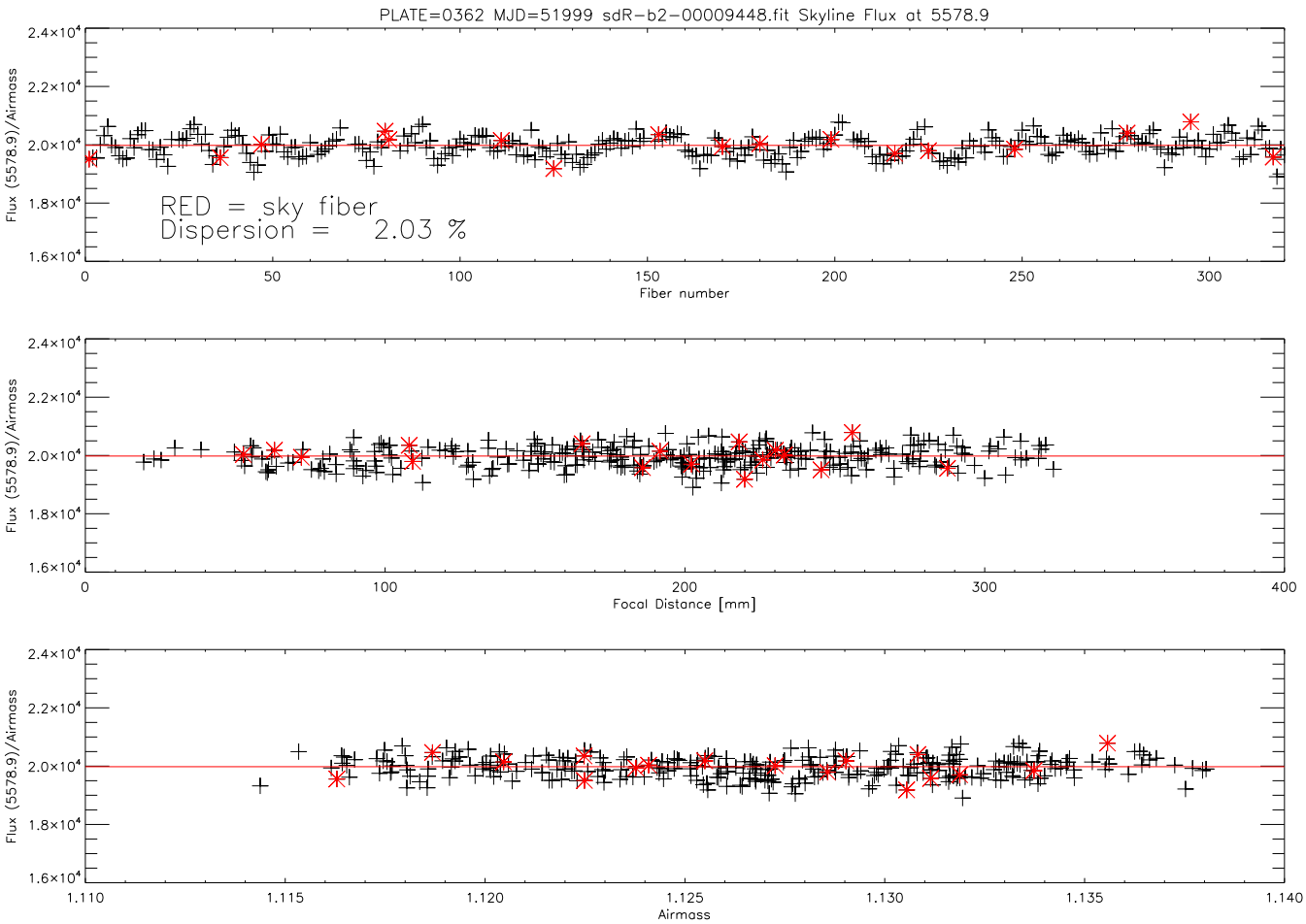

PLATE=0362 MJD=51999 sdR-b2-00009448.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

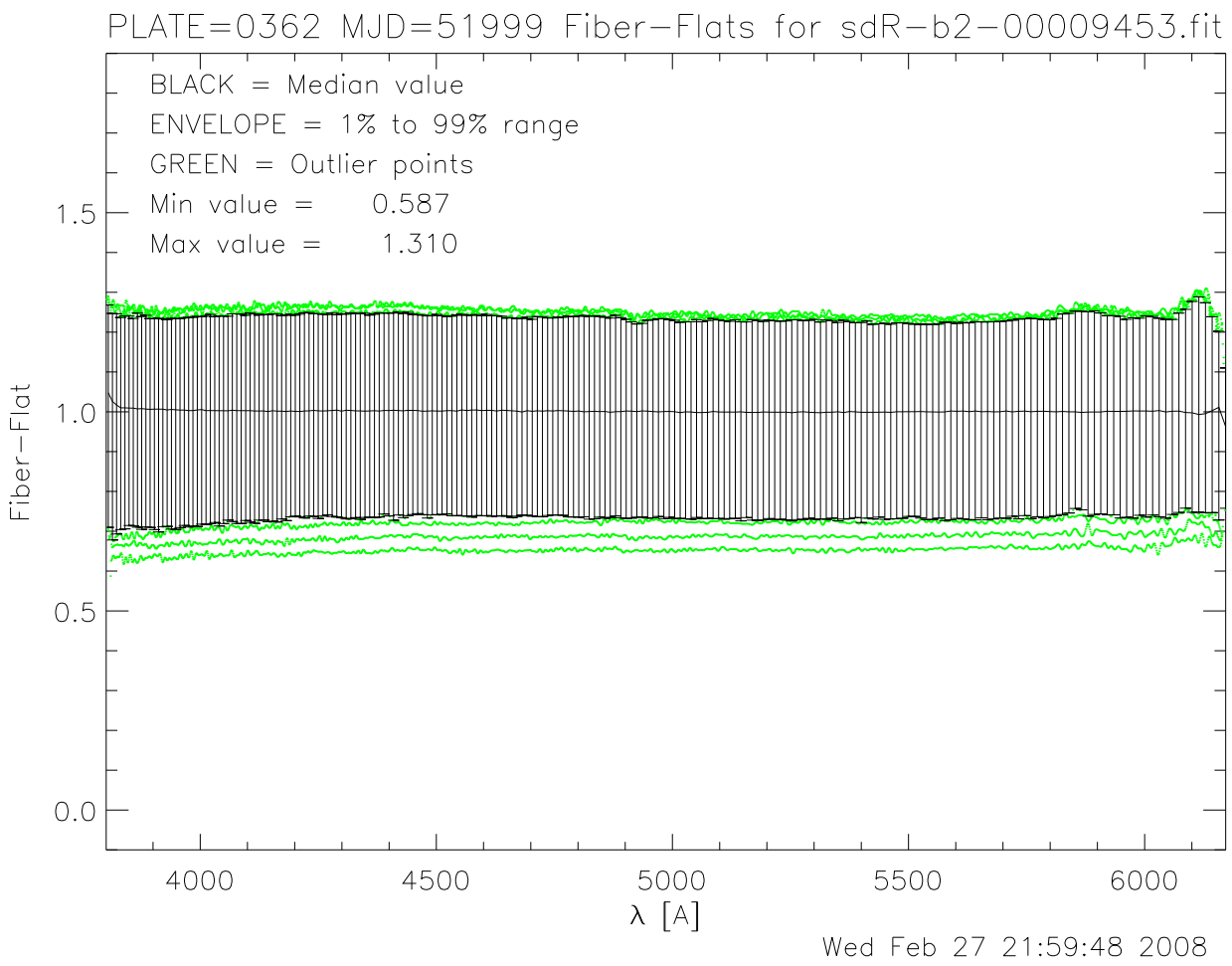

PLATE=0362 MJD=51999 sdR-b2-00009448.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

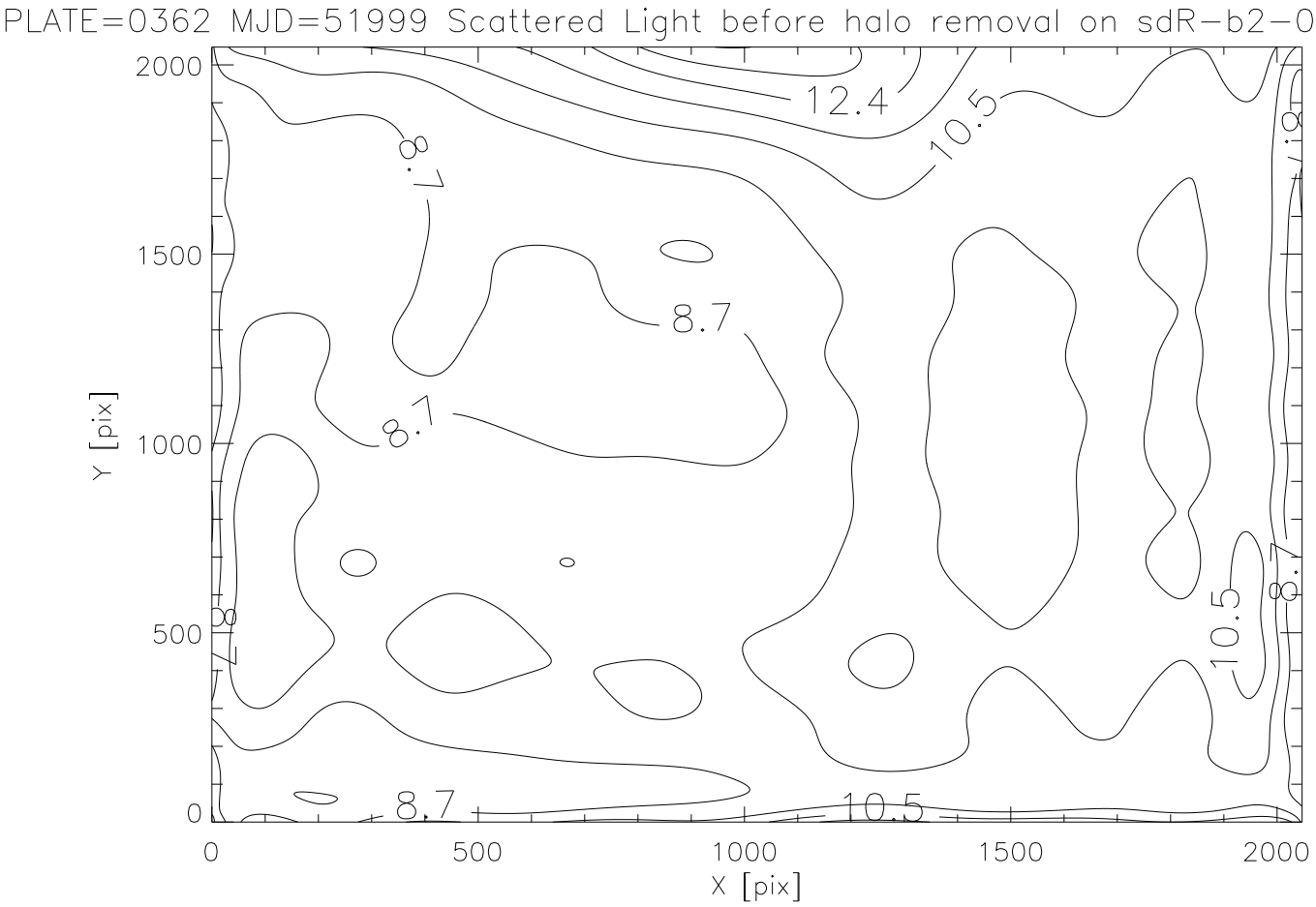

PLATE=0362 MJD=51999 sdR-b2-00009448.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

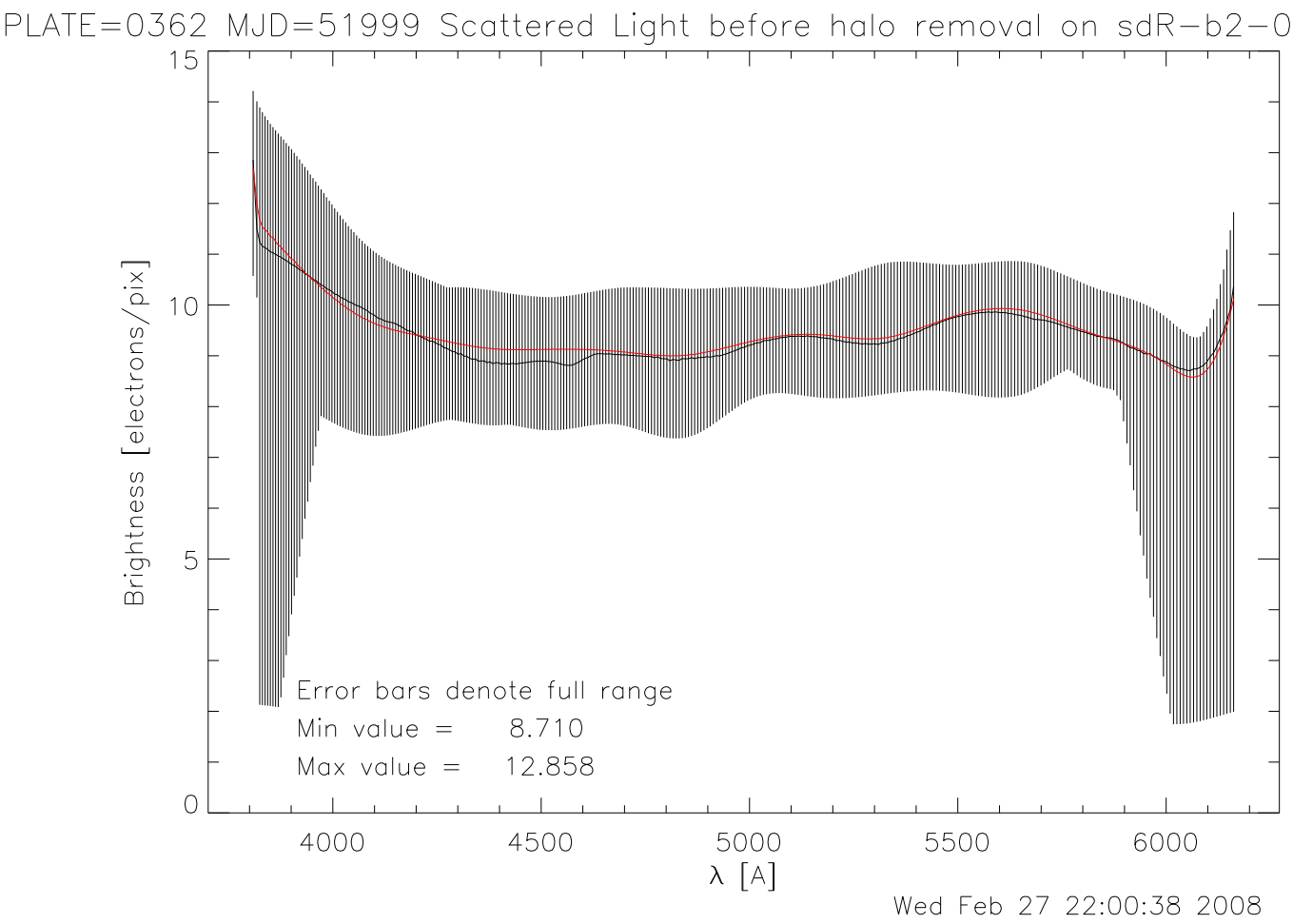

Number of sky fibers = 17
PLATE=0362 MJD=51999 sdR-b2-00009448.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

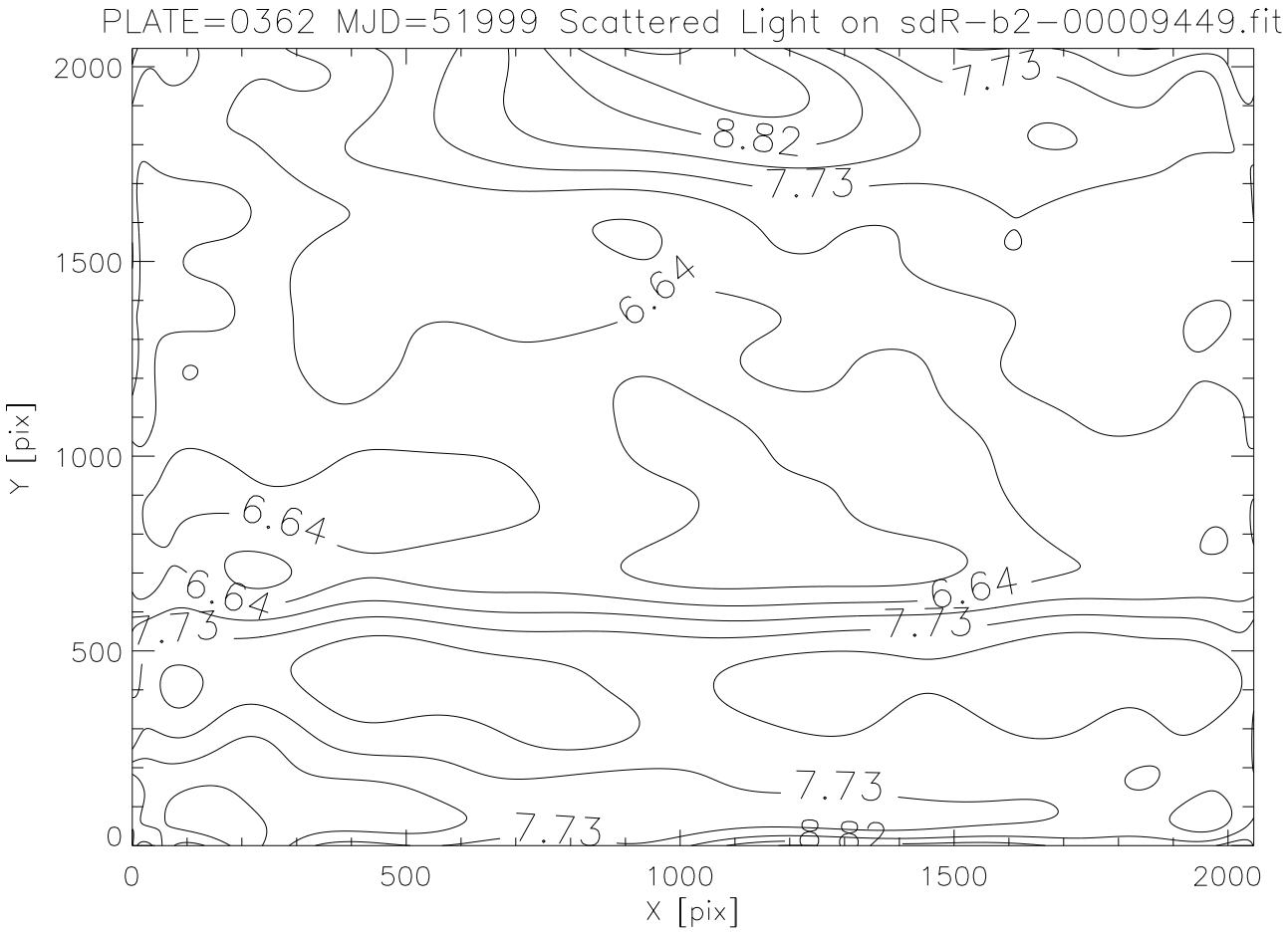

PLATE=0362 MJD=51999 sdR-b2-00009448.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.96 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

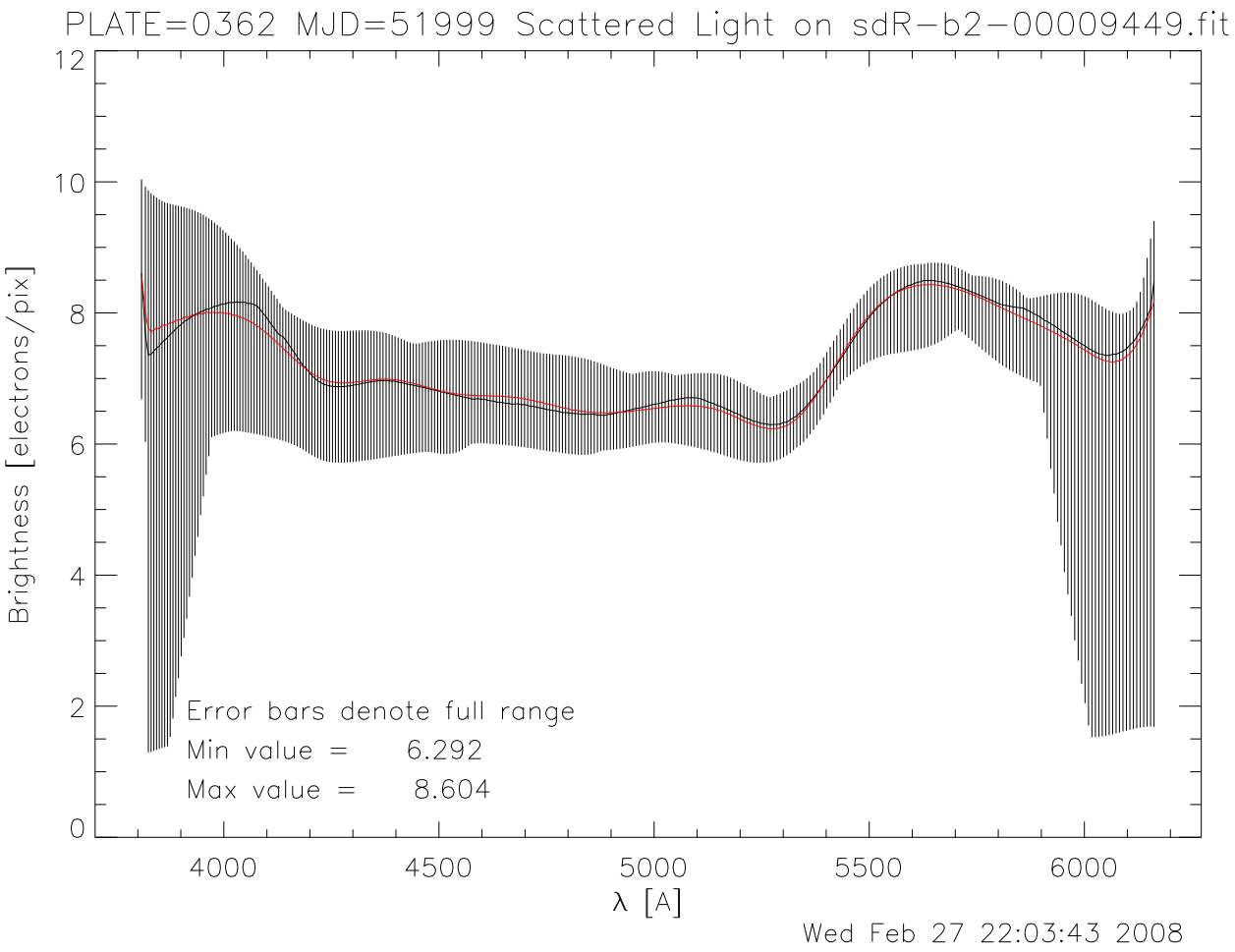

PLATE=0362 MJD=51999 sdR-b2-00009448.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.03 %
Fiber number
Focal Distance [mm]
Airmass

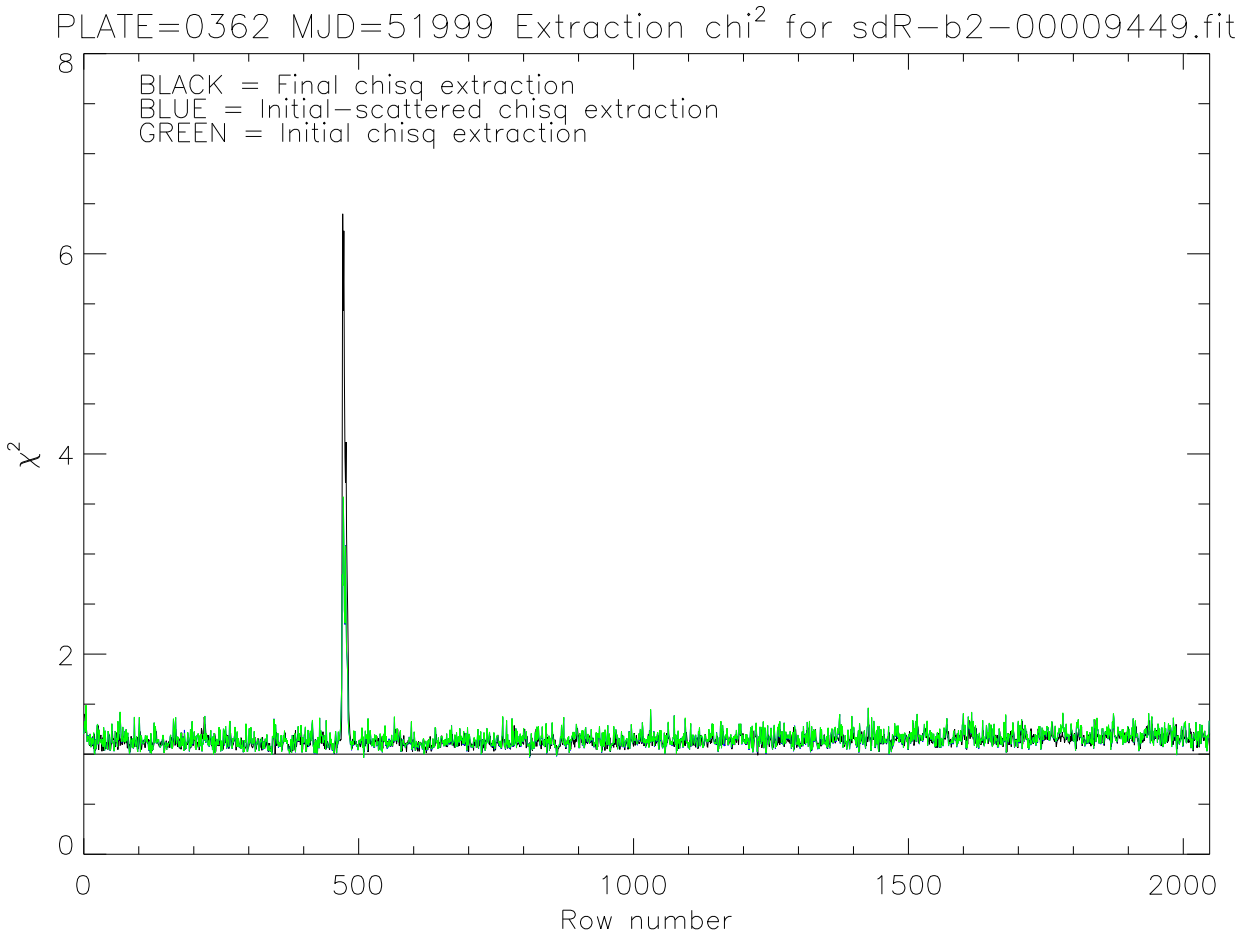

PLATE=0362 MJD=51999 Fiber-Flats for sdR-b2-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.587
Max value = 1.310
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 21:59:48 2008

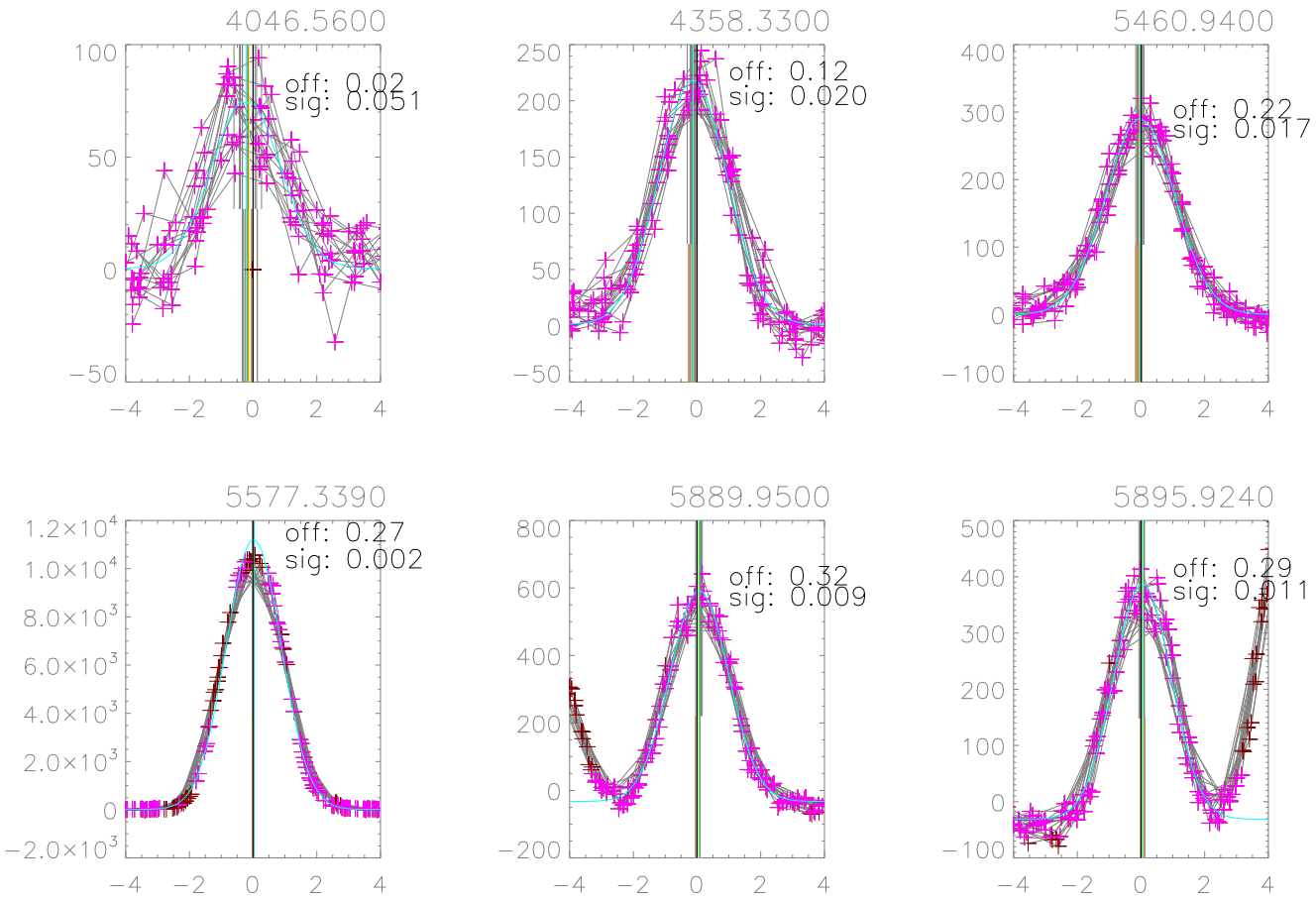

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR−b2−00009449.f
12.4
10.5
8.7
8.7
8.7
8.7
10.5
10.5
8.7
8.7
2000
1500
1000
500
0
0
500
1000
1500
2000
Y [pix]
X [pix]

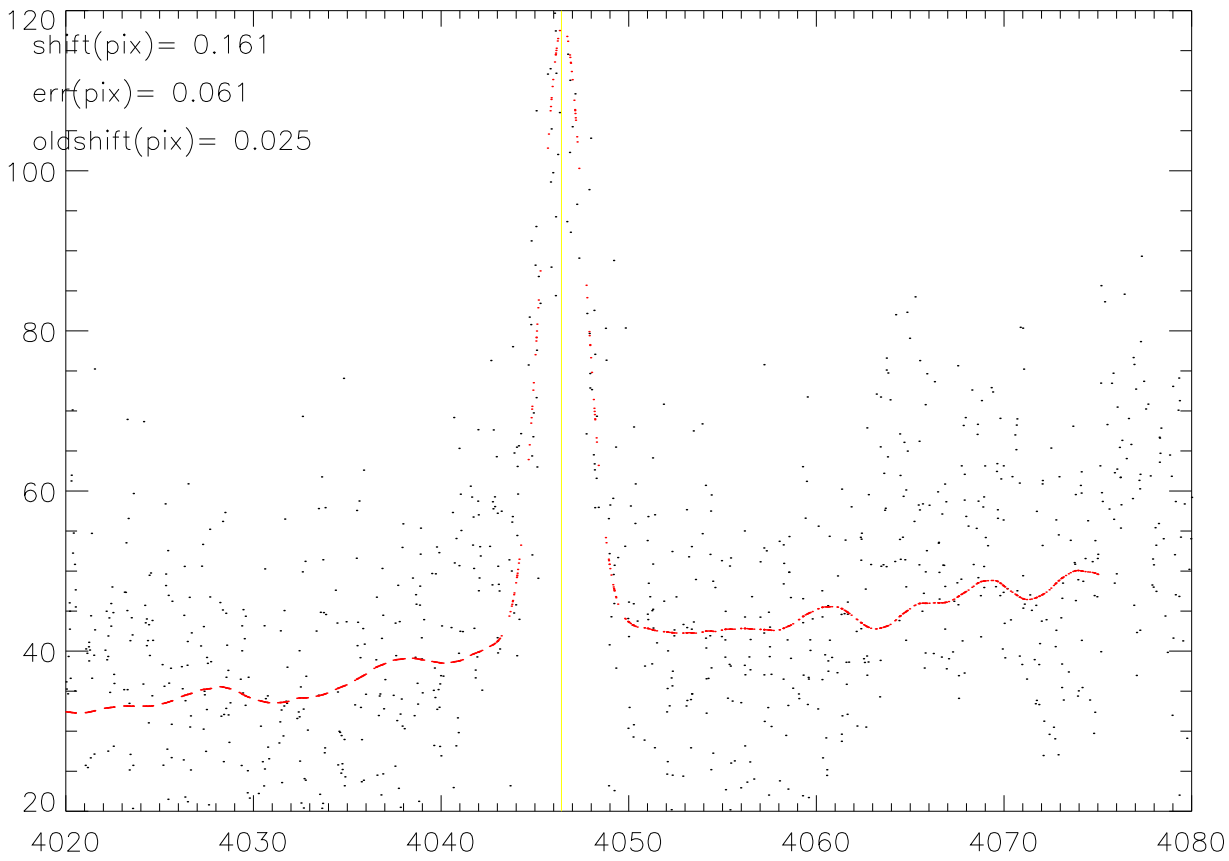

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-b2-00009449.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.710
Max value = 12.858
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 22:00:38 2008

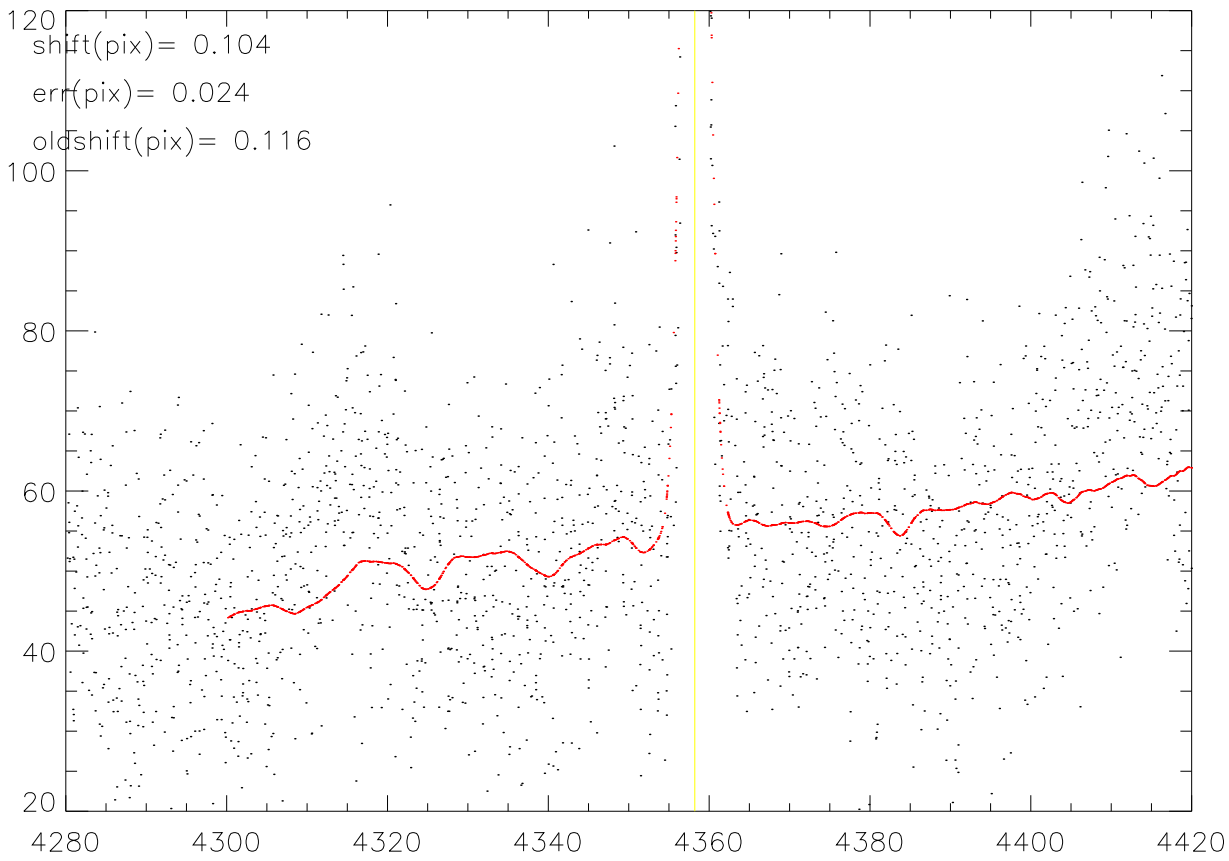

PLATE=0362 MJD=51999 Scattered Light on sdR-b2-00009449.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.73
8.82
6.64

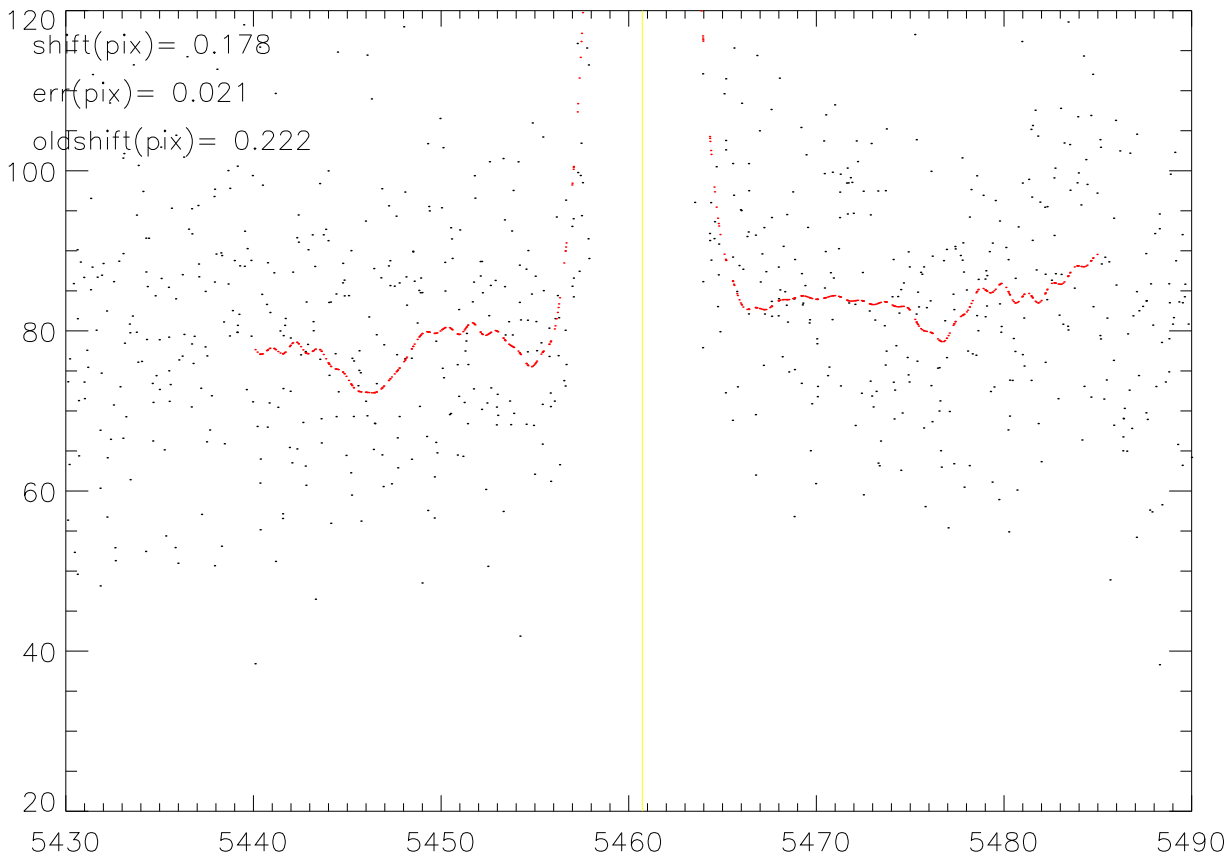

PLATE=0362 MJD=51999 Scattered Light on sdR-b2-00009449.fit
Brightness [electrons/pix]
12
10
8
6
4
2
0
Error bars denote full range
Min value = 6.292
Max value = 8.604
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 22:03:43 2008

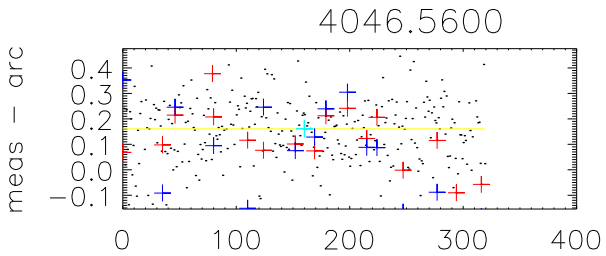

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-b2-00009449.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

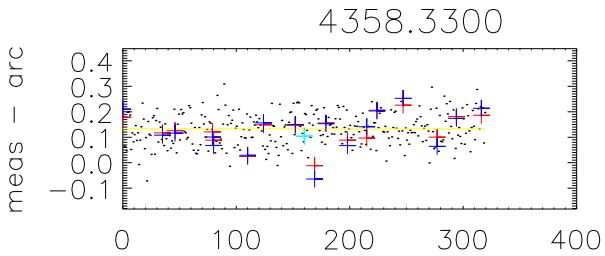

4046.5600
off: 0.02
sig: 0.051
4358.3300
off: 0.12
sig: 0.020
5460.9400
off: 0.22
sig: 0.017
5577.3390
off: 0.27
sig: 0.002
5889.9500
off: 0.32
sig: 0.009
5895.9240
off: 0.29
sig: 0.011

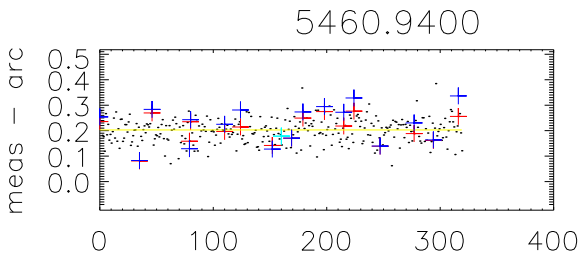

shift(pix)= 0.161
err(pix)= 0.061
oldshift(pix)= 0.025
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

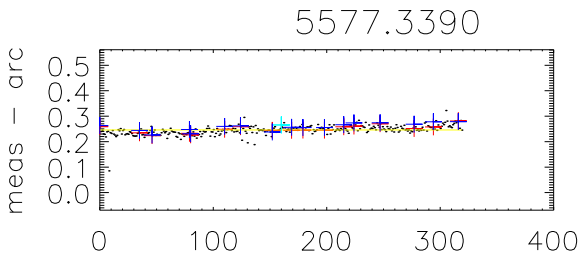

shift(pix)= 0.104
err(pix)= 0.024
oldshift(pix)= 0.116
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

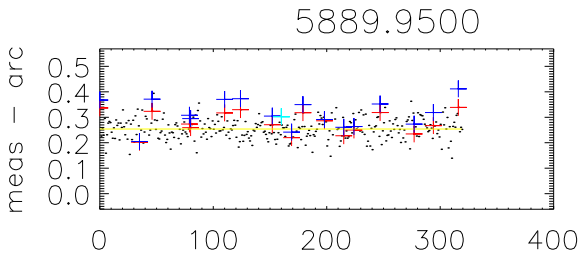

shift(pix)= 0.178
err(pix)= 0.021
oldshift(pix)= 0.222
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

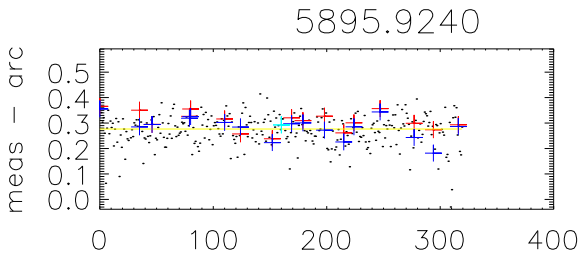

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

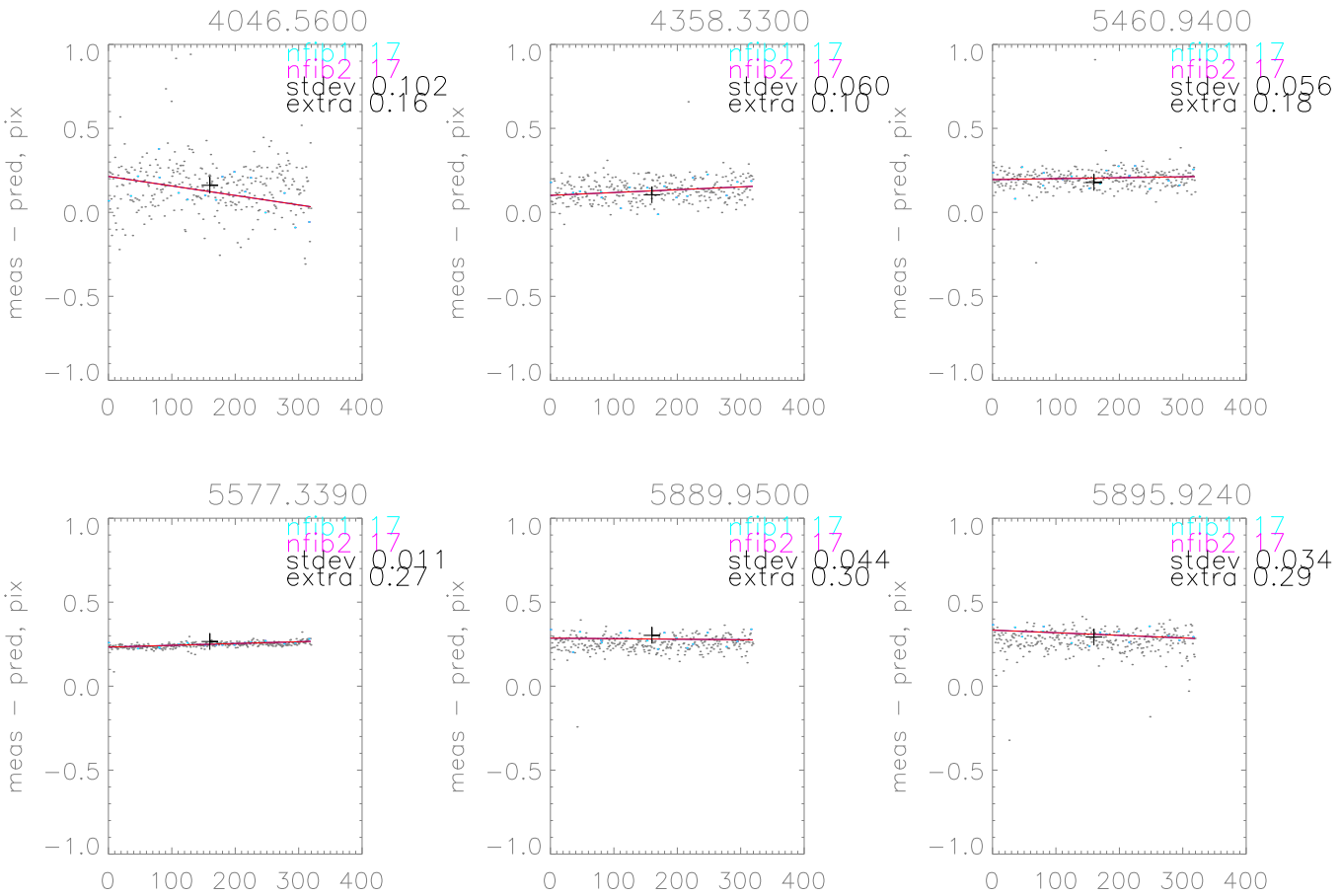

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

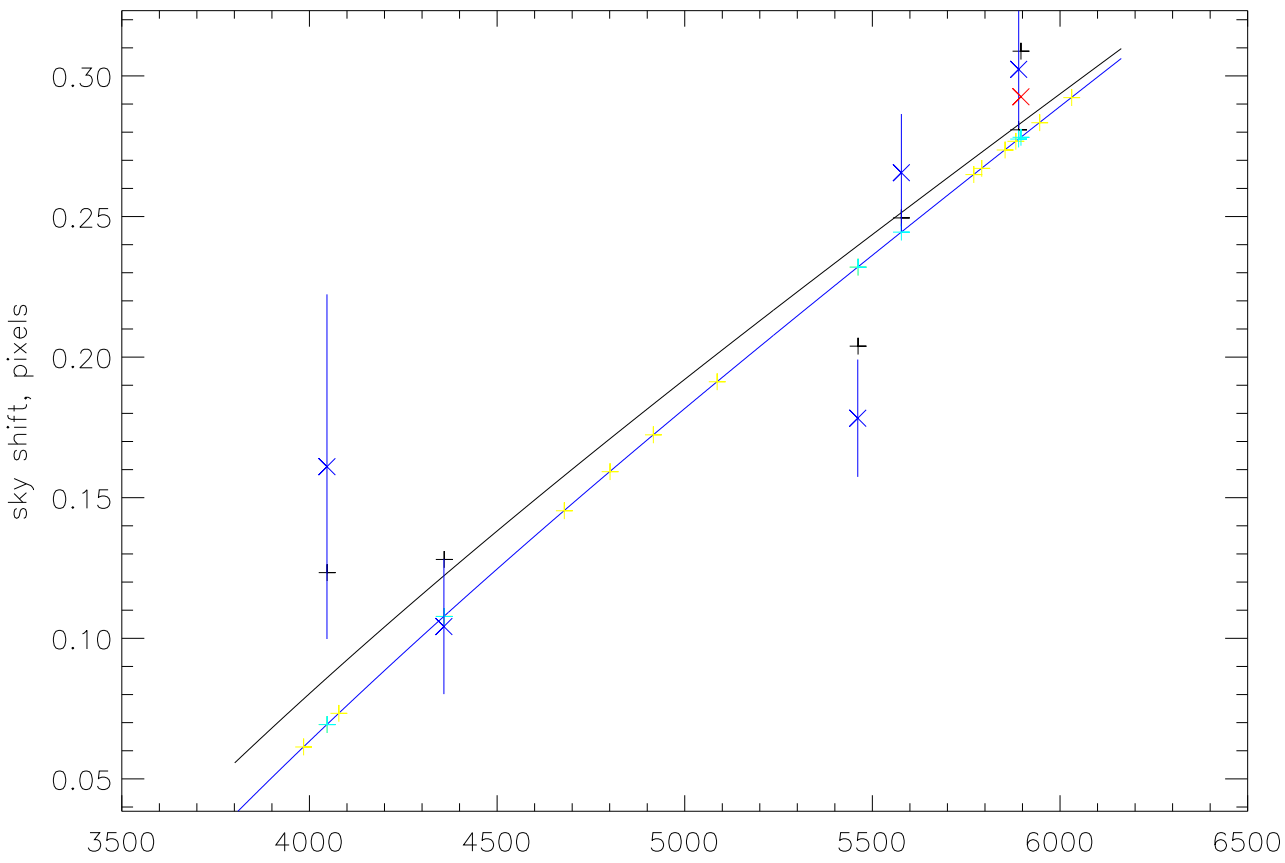

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

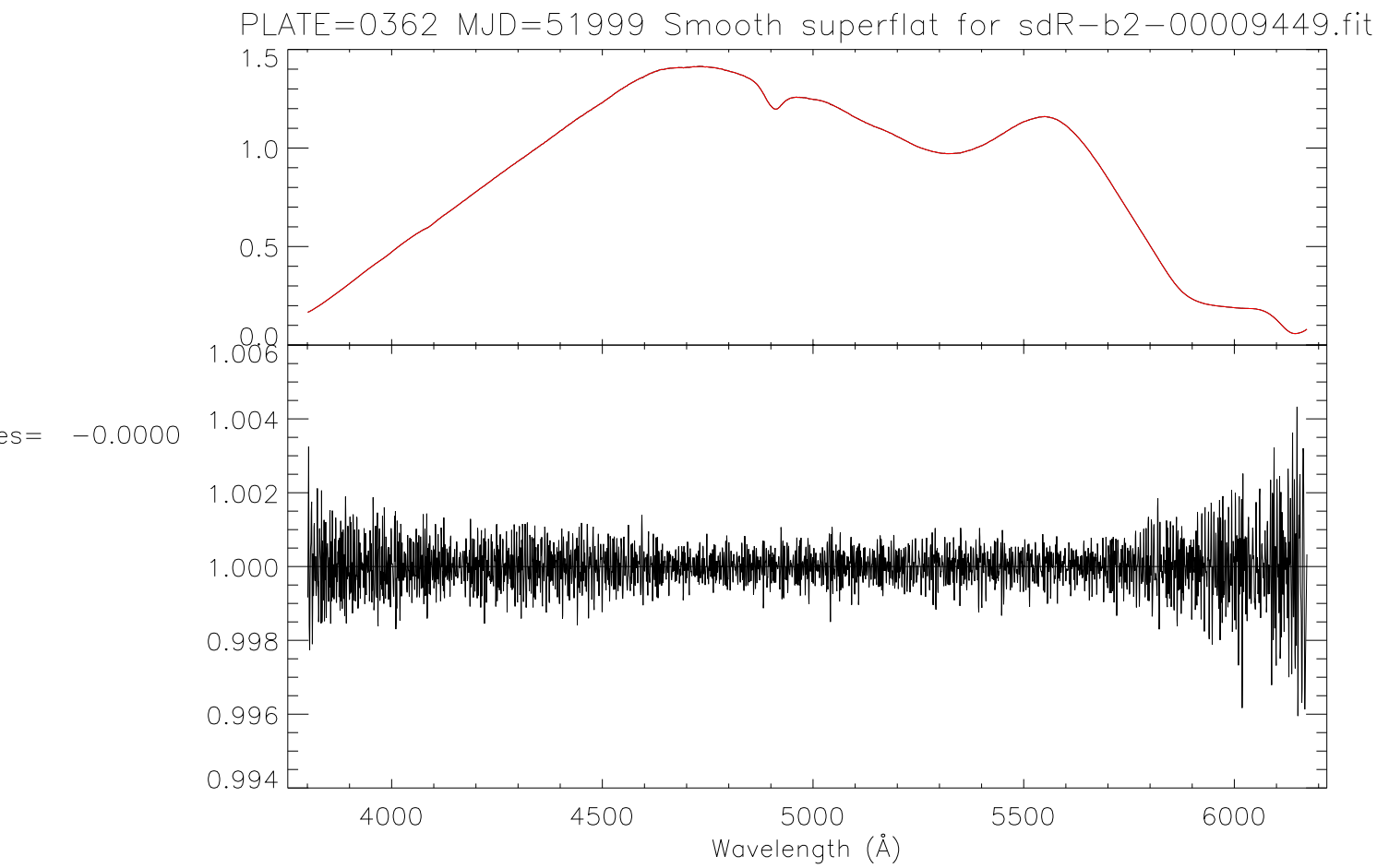

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400


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
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

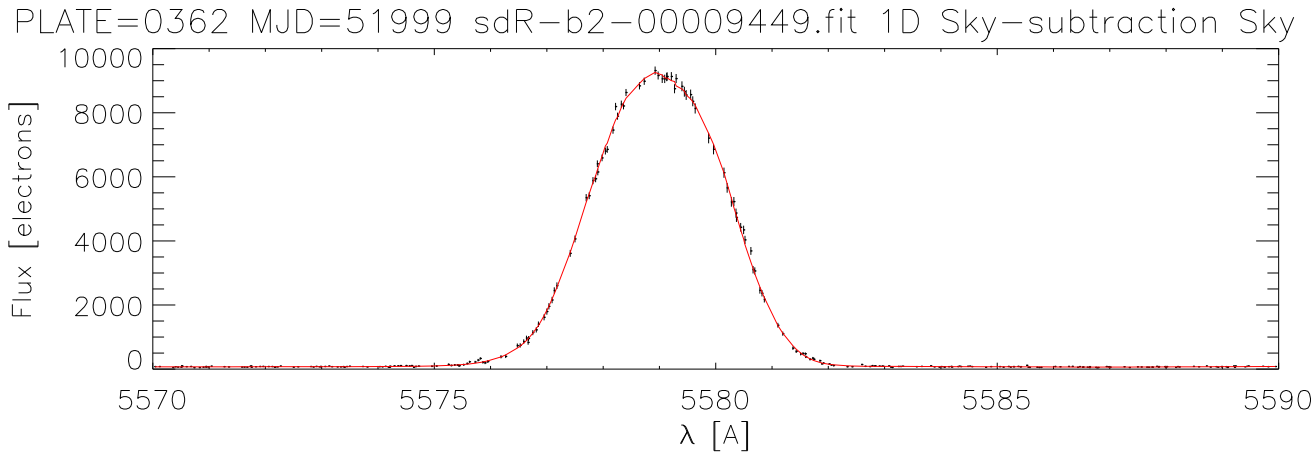

4046.5600
nfib1 17
nfib2 17
stdev 0.102
extra 0.16
4358.3300
nfib1 17
nfib2 17
stdev 0.060
extra 0.10
5460.9400
nfib1 17
nfib2 17
stdev 0.056
extra 0.18
5577.3390
nfib1 17
nfib2 17
stdev 0.011
extra 0.27
5889.9500
nfib1 17
nfib2 17
stdev 0.044
extra 0.30
5895.9240
nfib1 17
nfib2 17
stdev 0.034
extra 0.29
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

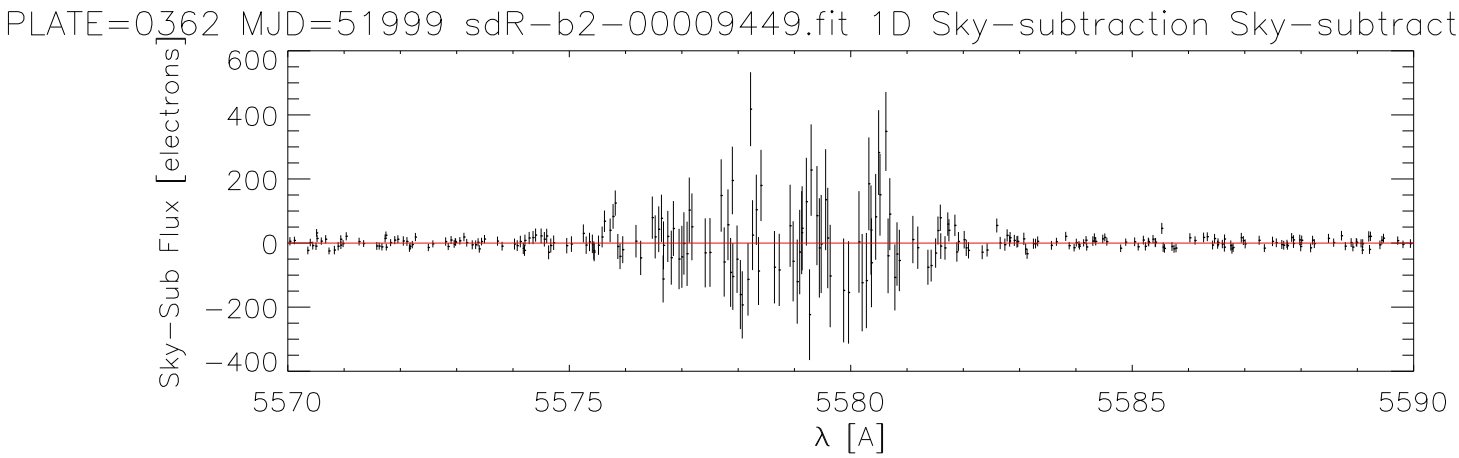

sky shift, pixels
0.30
0.25
0.20
0.15
0.10
0.05
3500
4000
4500
5000
5500
6000
6500

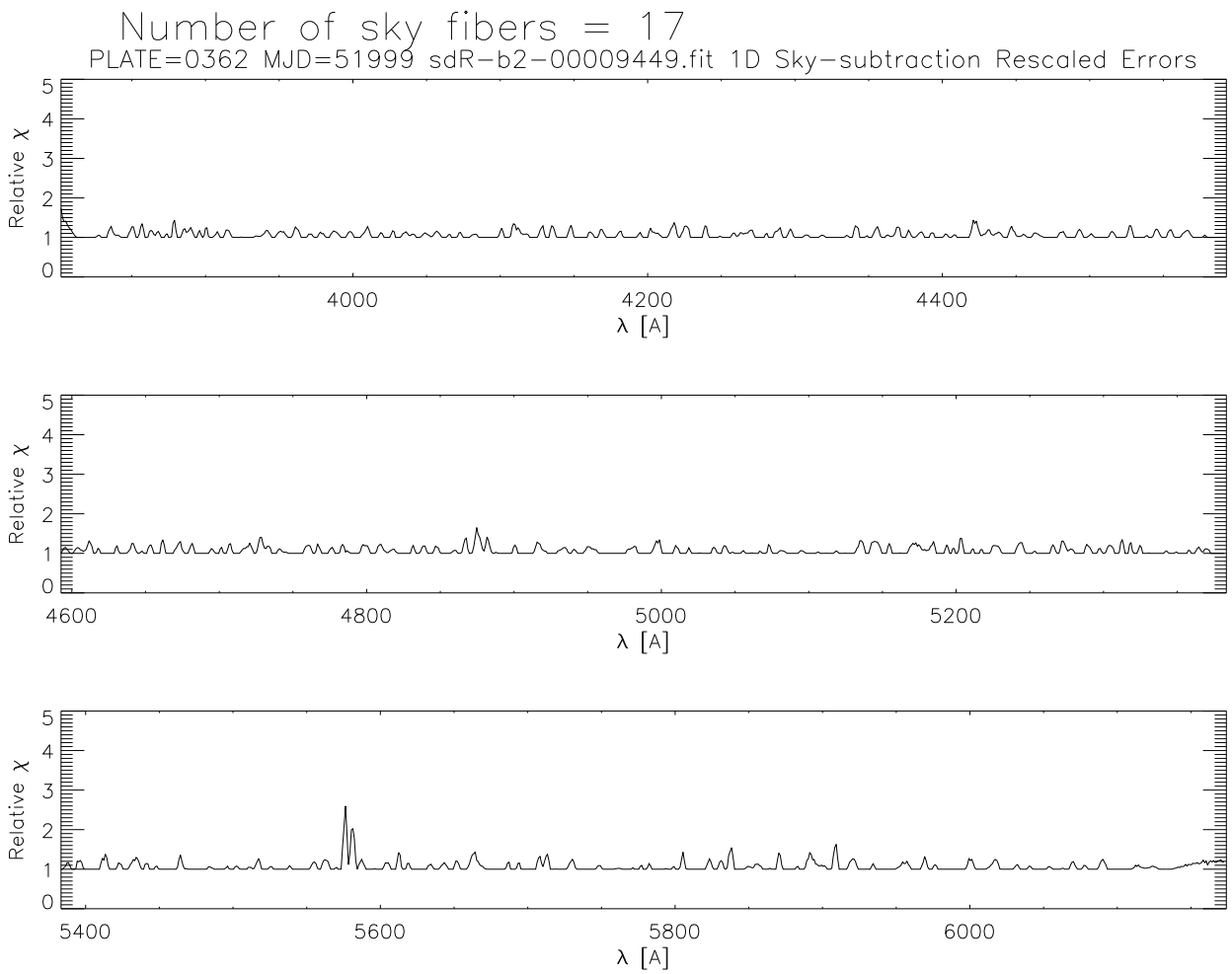

PLATE=0362 MJD=51999 Smooth superflat for sdR-b2-00009449.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

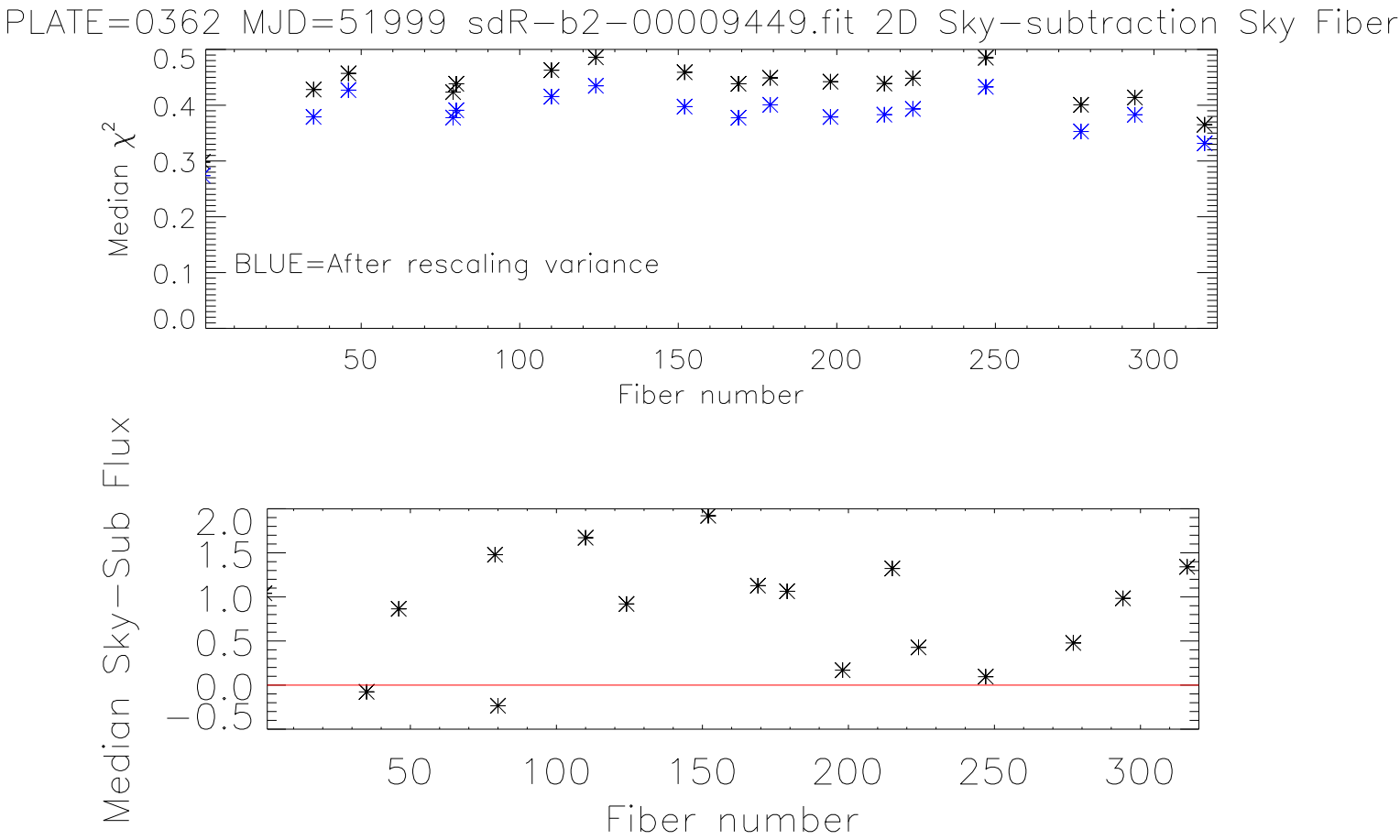
es= −0.0000

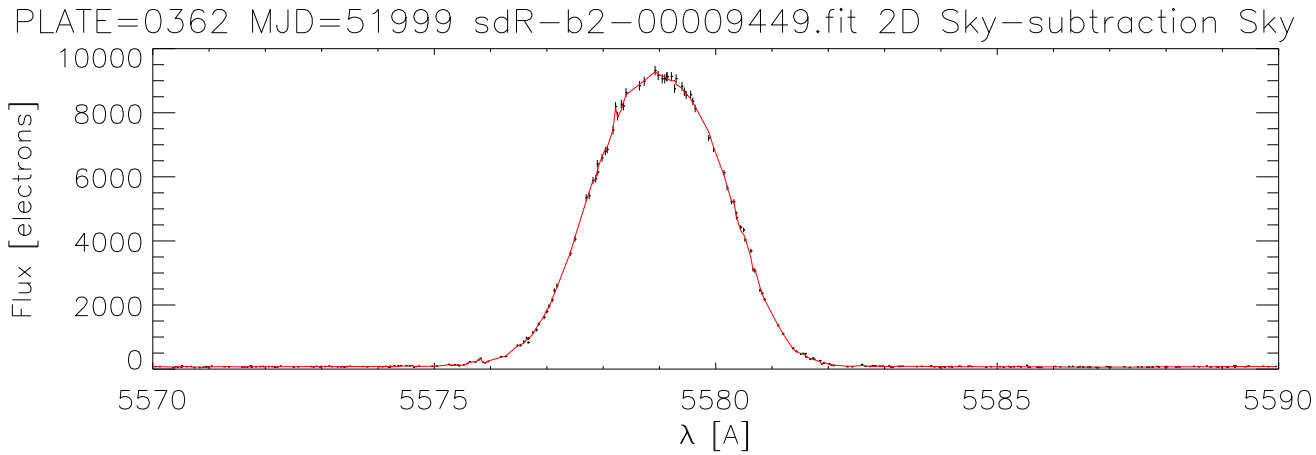
PLATE=0362 MJD=51999 sdR-b2-00009449.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

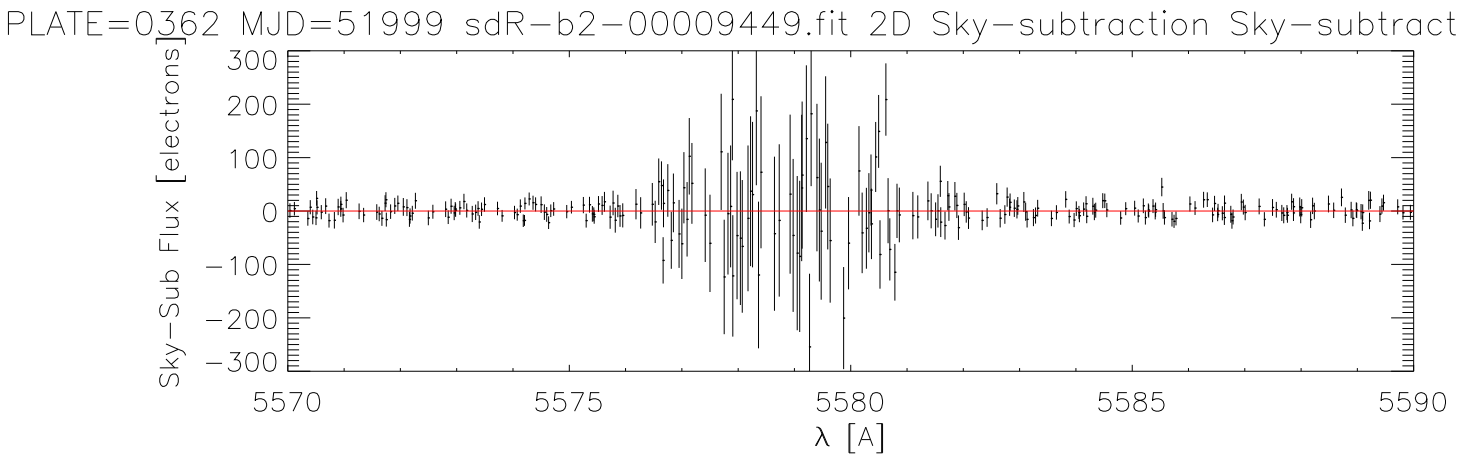

PLATE=0362 MJD=51999 sdR-b2-00009449.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

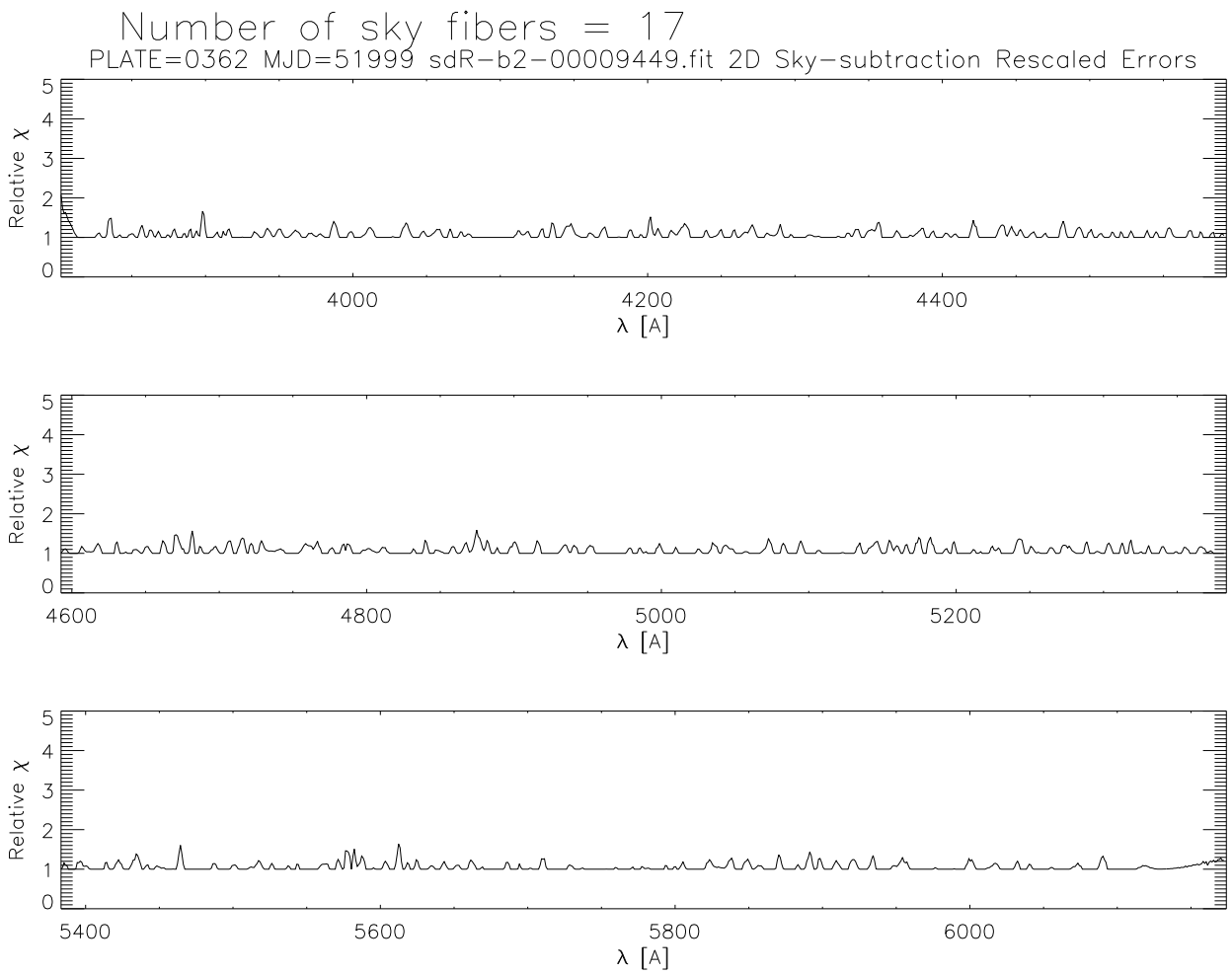

PLATE=0362 MJD=51999 sdR-b2-00009449.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

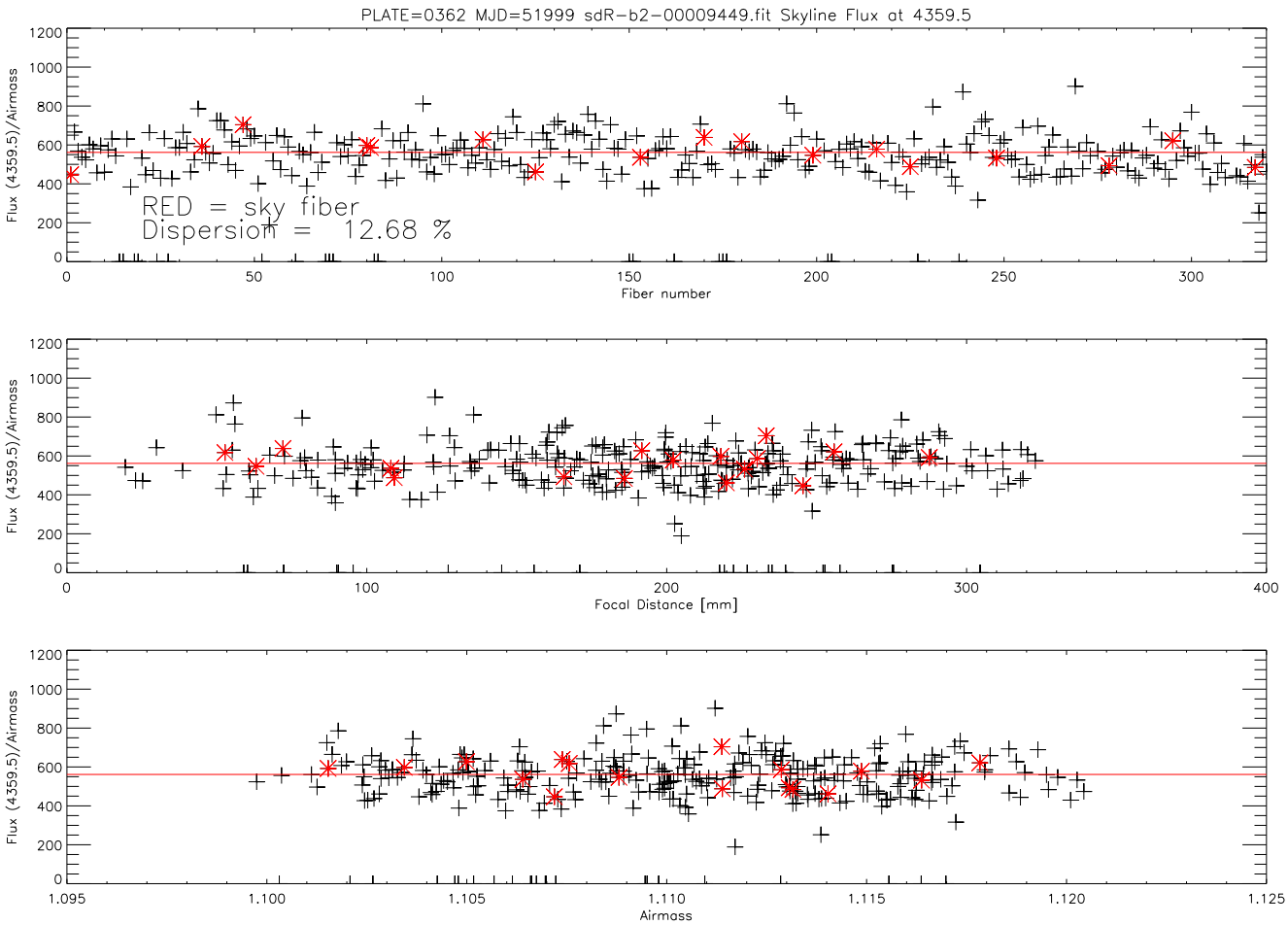

Number of sky fibers = 17
PLATE=0362 MJD=51999 sdR-b2-00009449.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

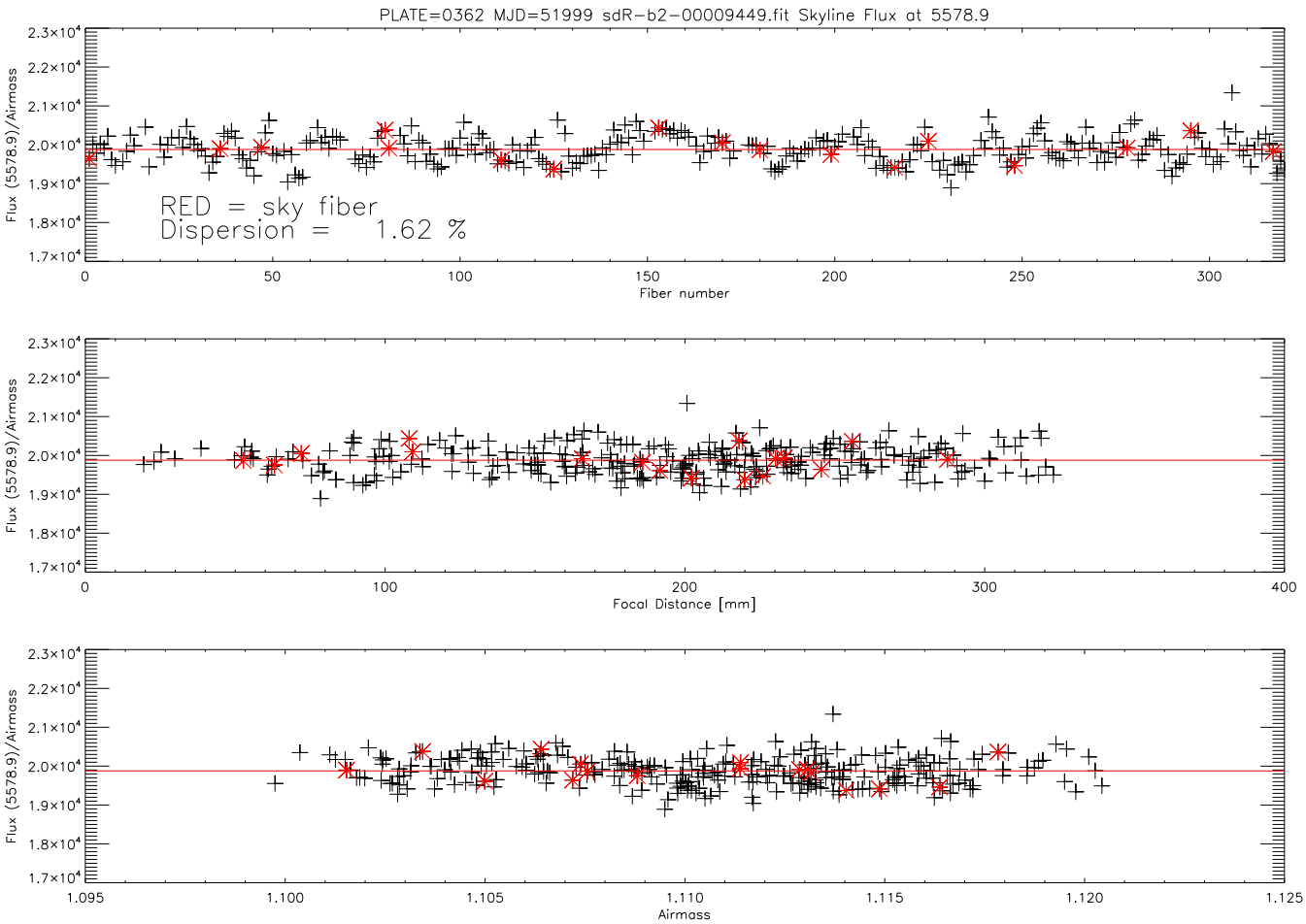

PLATE=0362 MJD=51999 sdR-b2-00009449.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

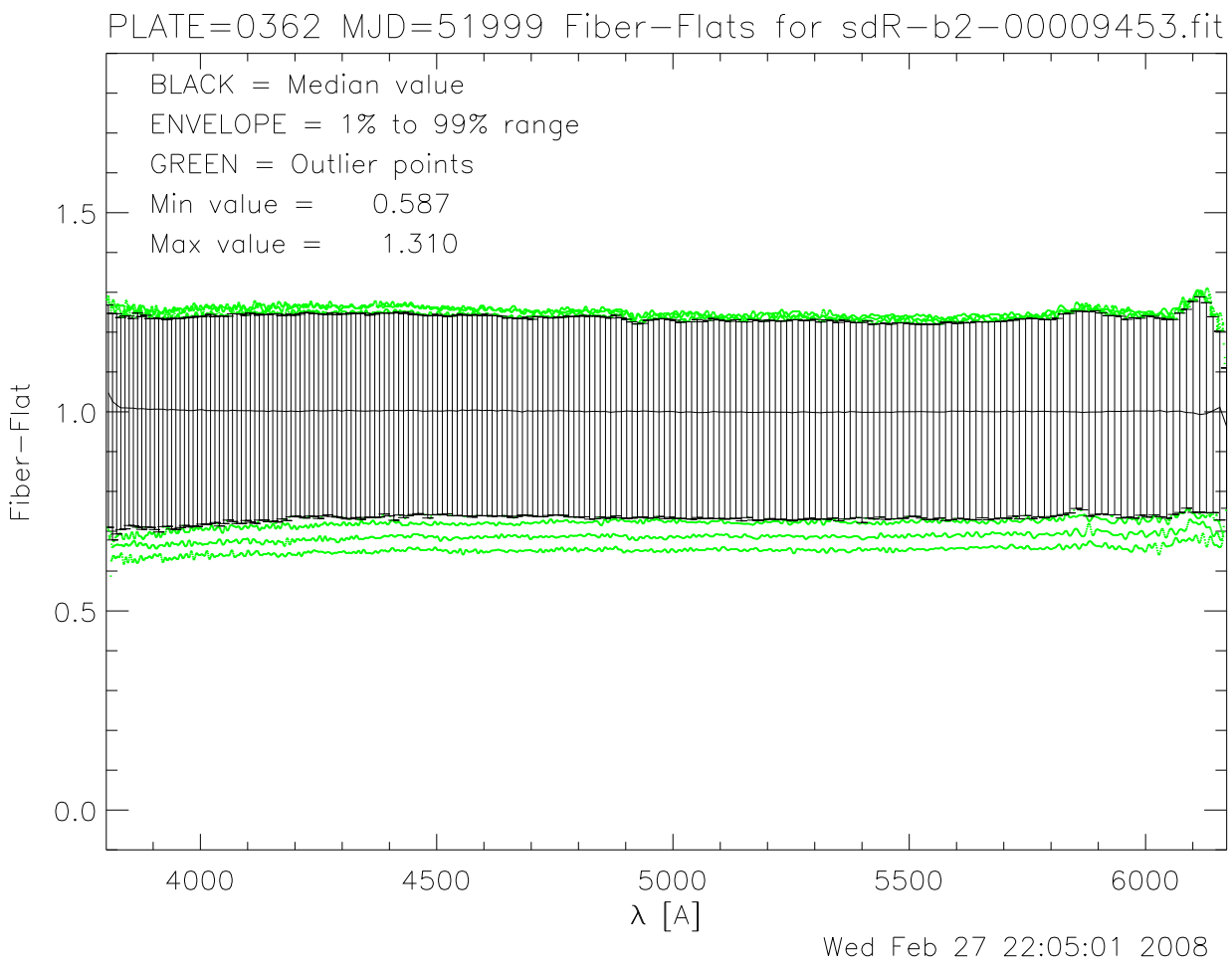

PLATE=0362 MJD=51999 sdR-b2-00009449.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

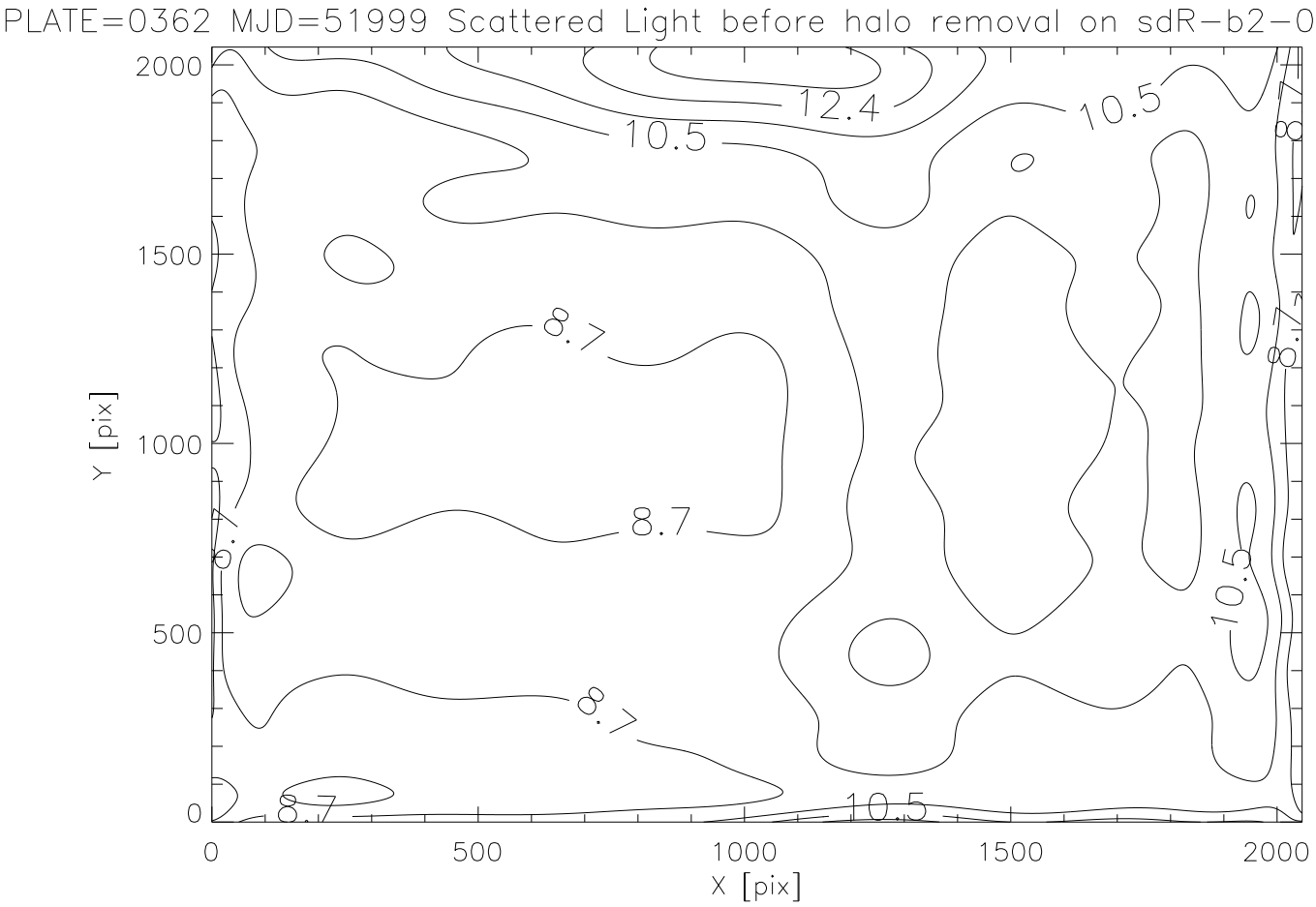

PLATE=0362 MJD=51999 sdR-b2-00009449.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

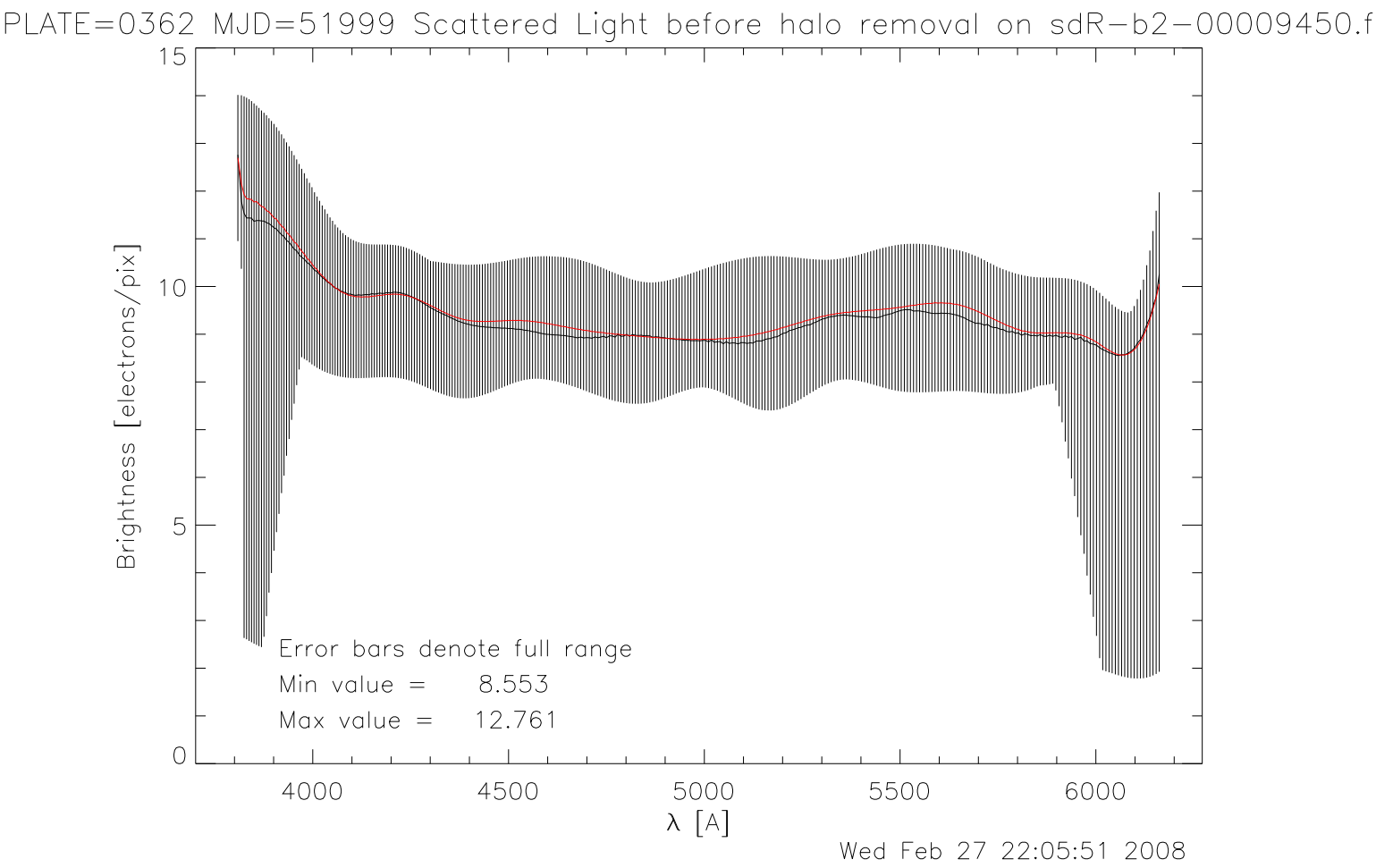

Number of sky fibers = 17
PLATE=0362 MJD=51999 sdR-b2-00009449.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

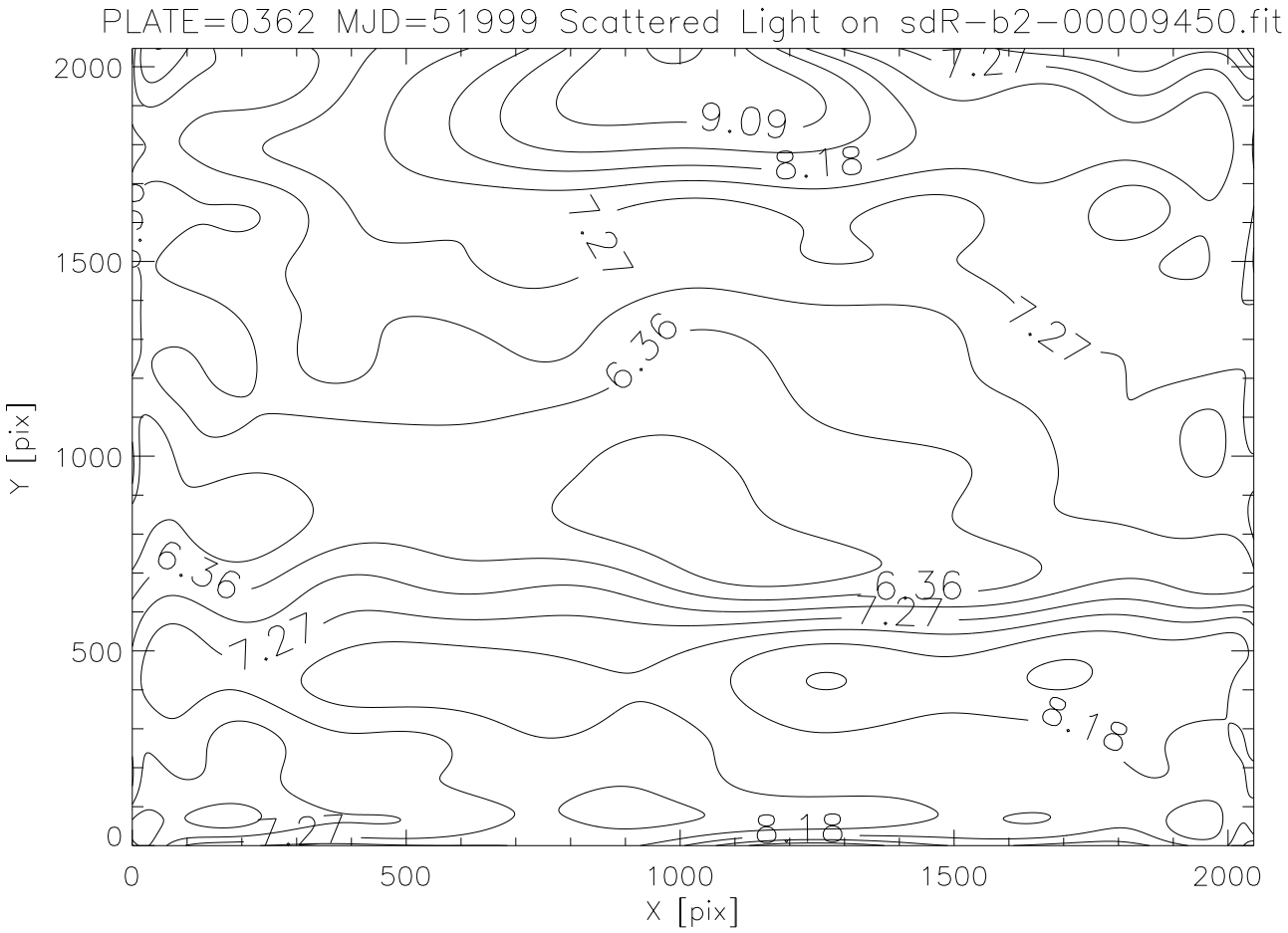

PLATE=0362 MJD=51999 sdR-b2-00009449.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.68 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

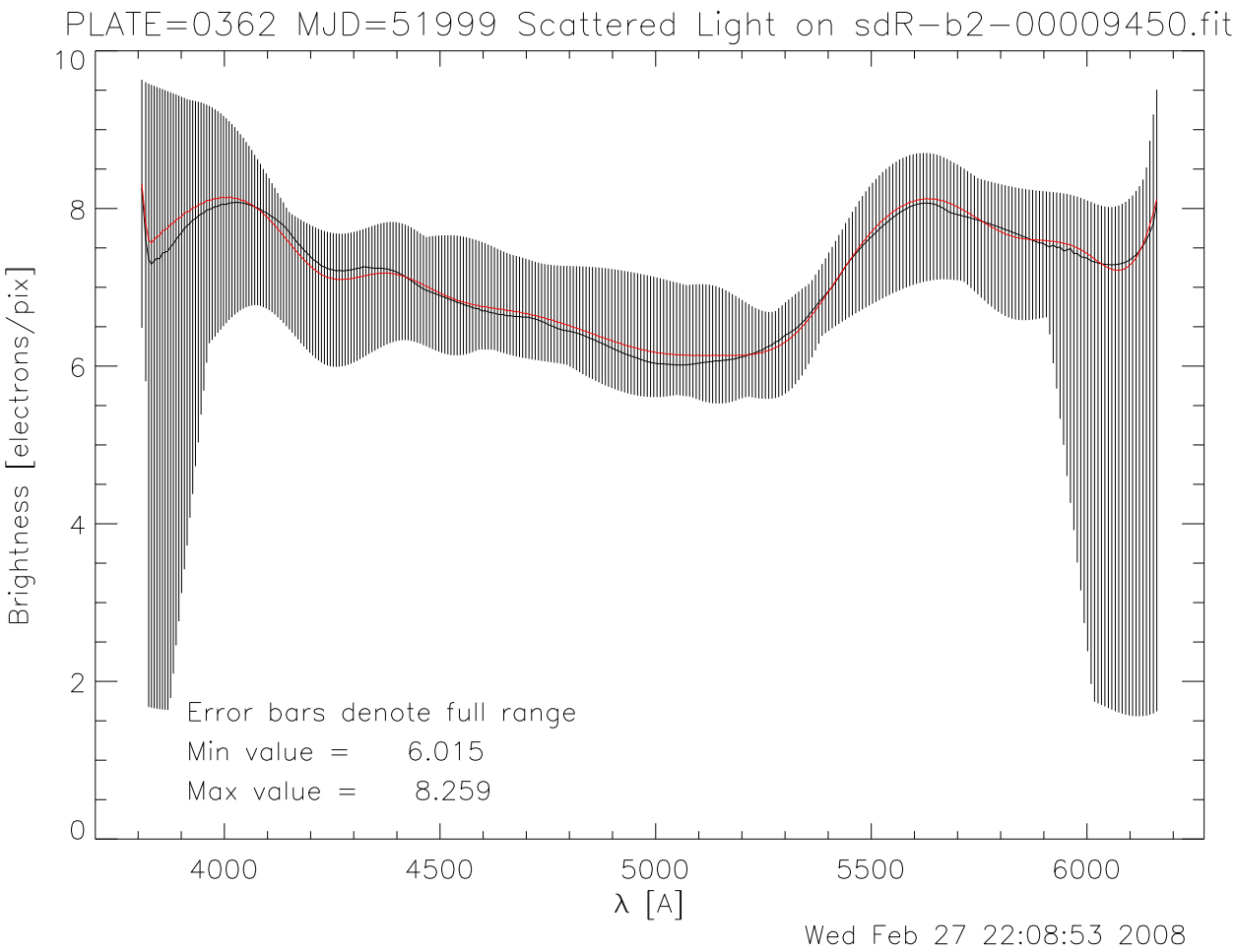

PLATE=0362 MJD=51999 sdR-b2-00009449.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.62 %
Fiber number
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

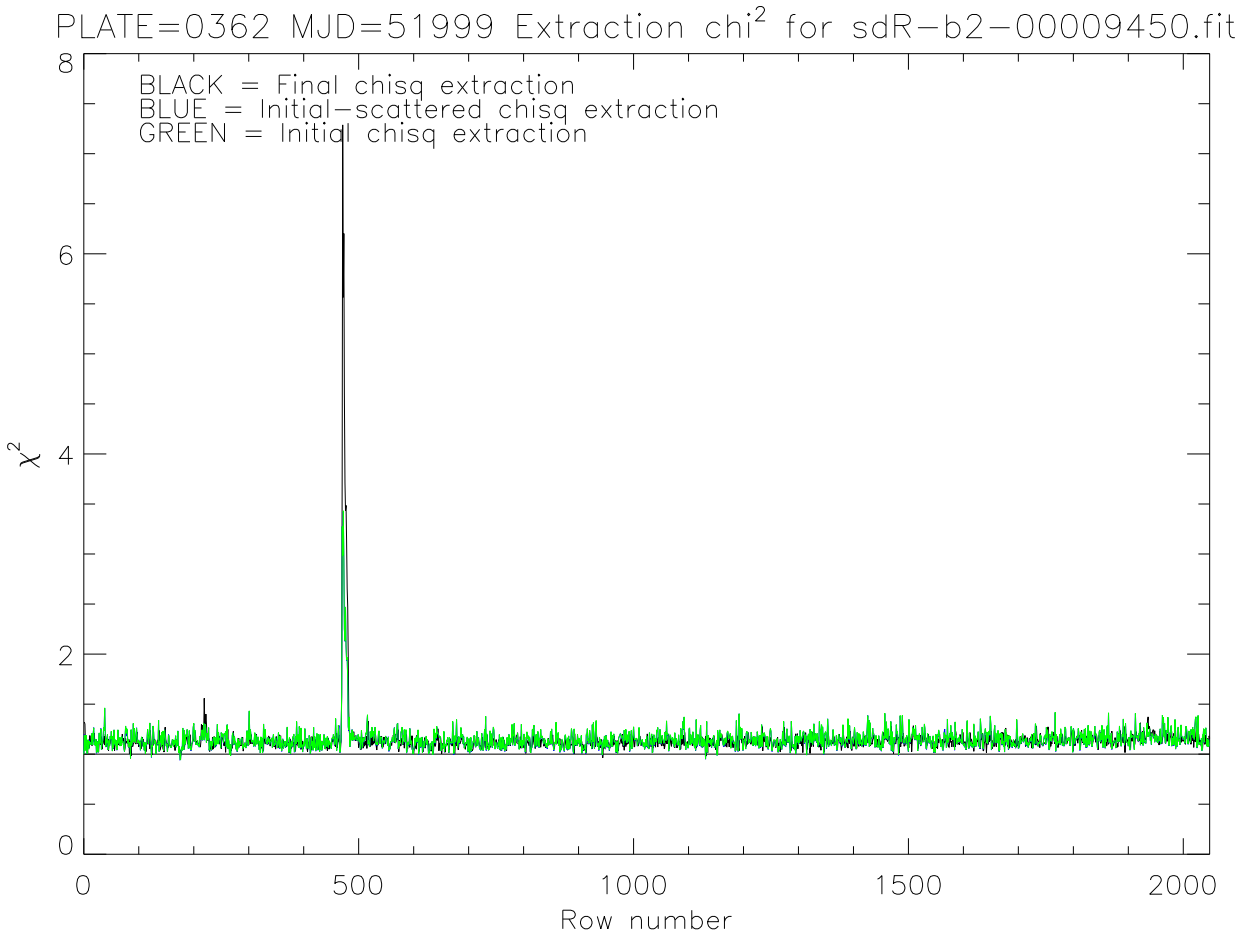

PLATE=0362 MJD=51999 Fiber−Flats for sdR−b2−00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.587
Max value = 1.310
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 22:05:01 2008

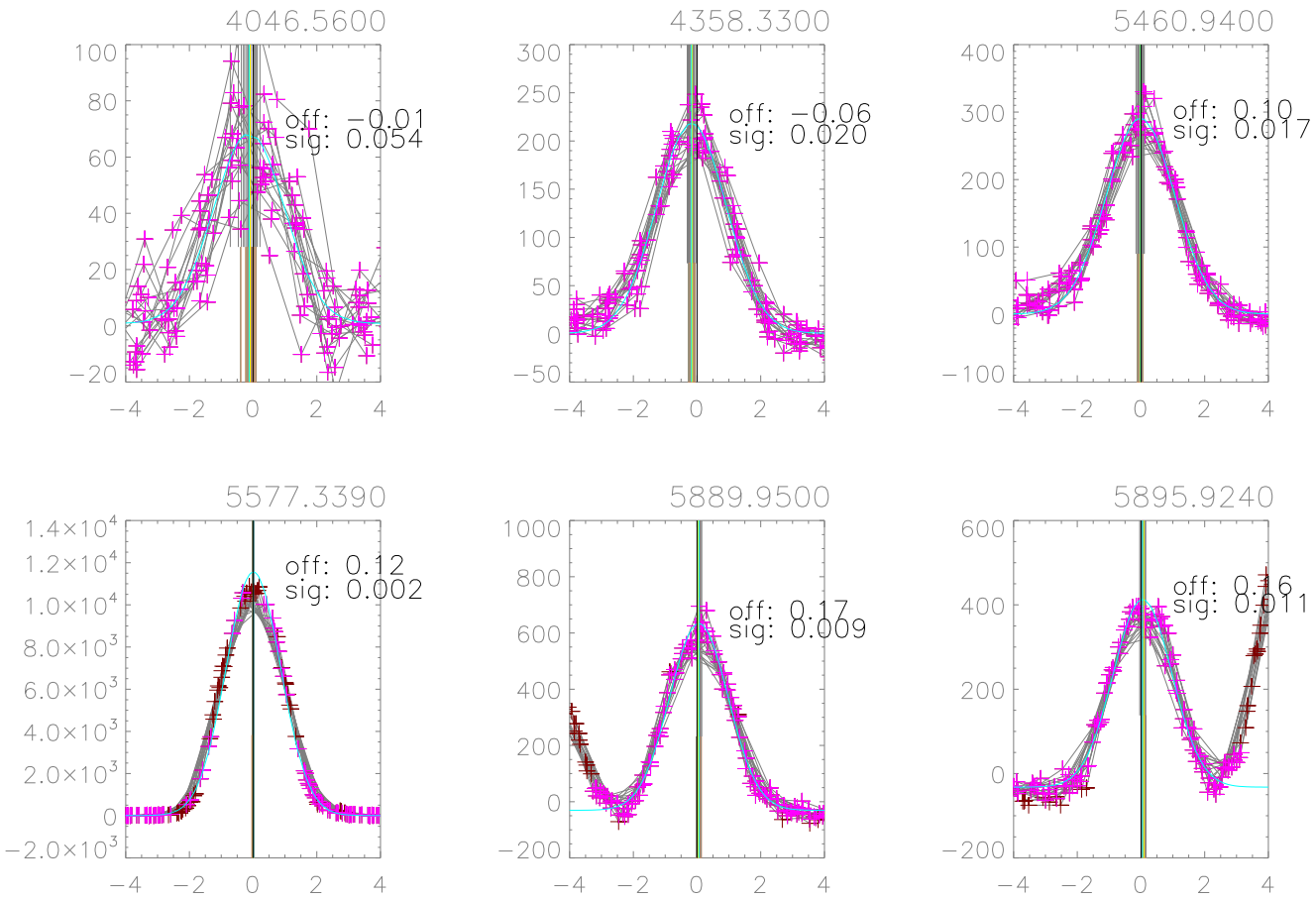

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-b2-00009450.f
12.4
10.5
10.5
8.7
8.7
8.7
8.7
8.7
10.5
10.5
0
Y [pix]
X [pix]
0
500
1000
1500
2000

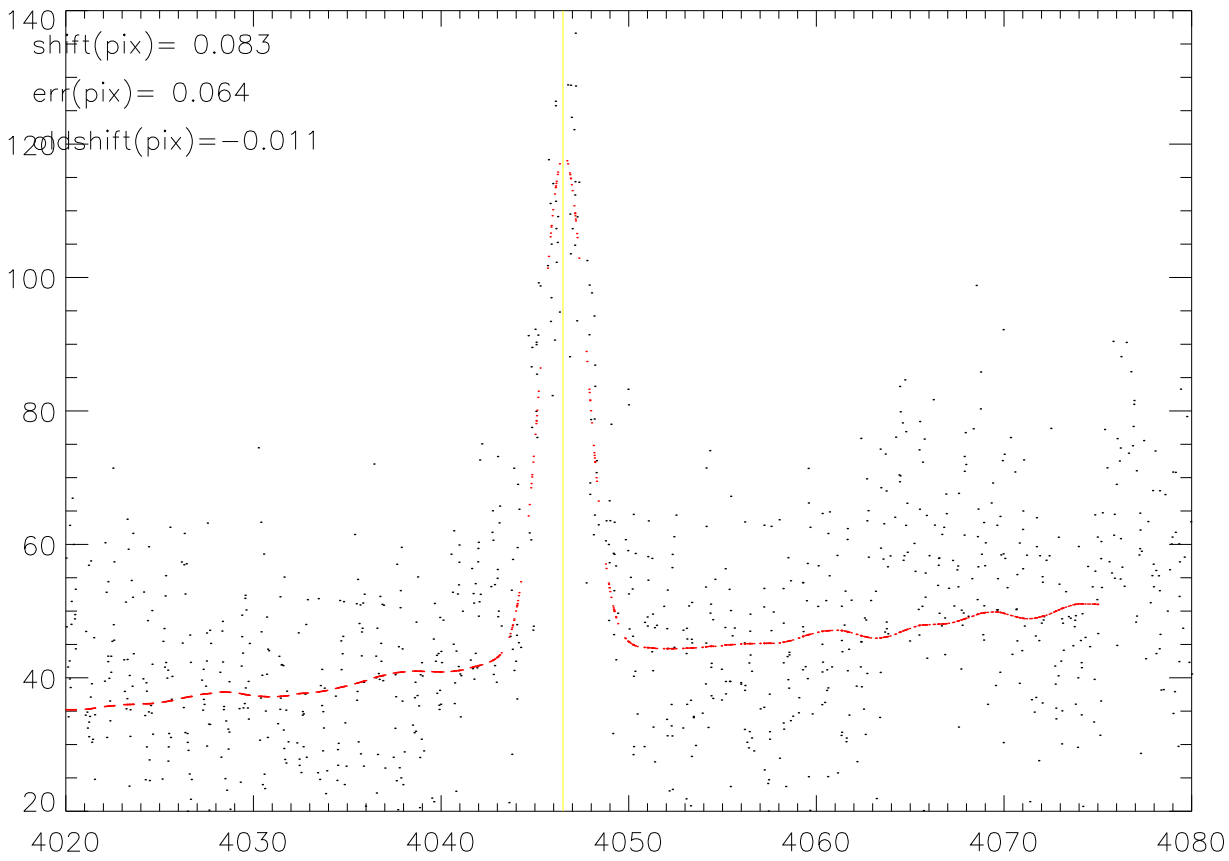

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-b2-00009450.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.553
Max value = 12.761
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 22:05:51 2008

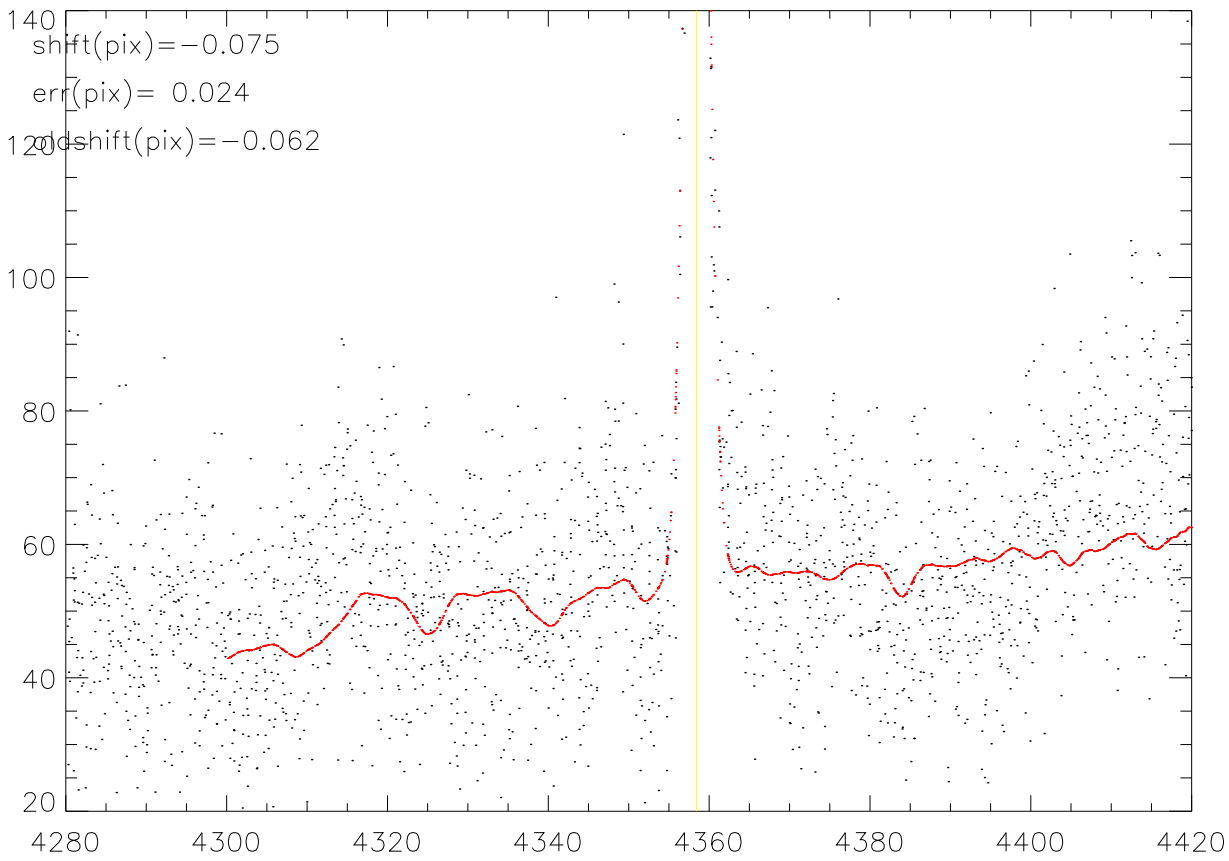

PLATE=0362 MJD=51999 Scattered Light on sdR-b2-00009450.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.09
8.18
7.27
6.36

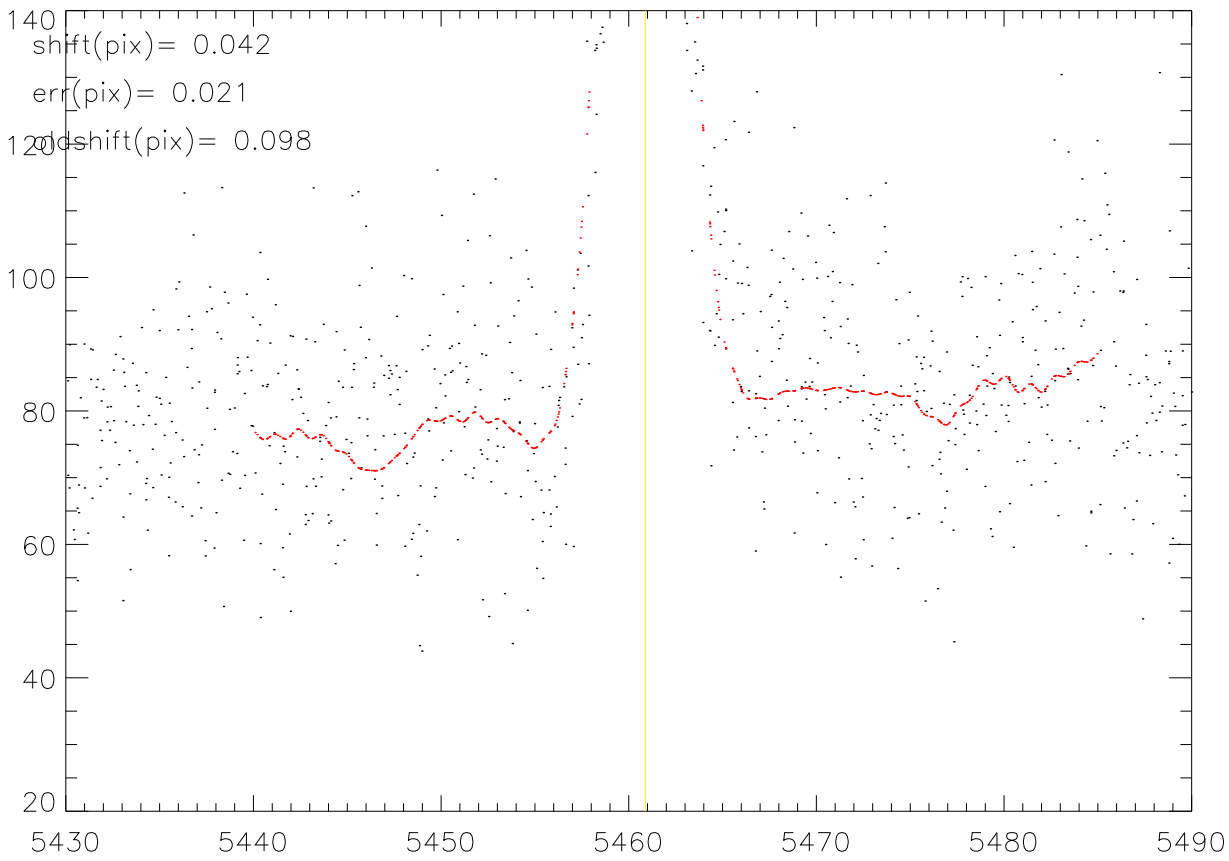

PLATE=0362 MJD=51999 Scattered Light on sdR-b2-00009450.fit
Brightness [electrons/pix]
10
8
6
4
2
0
Error bars denote full range
Min value = 6.015
Max value = 8.259
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 22:08:53 2008

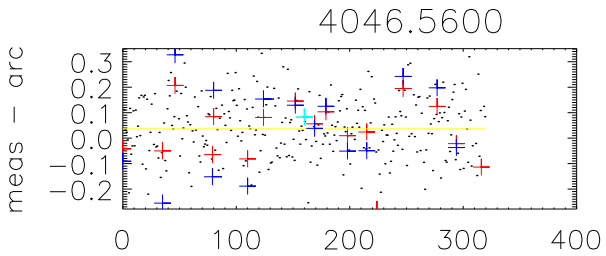

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-b2-00009450.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

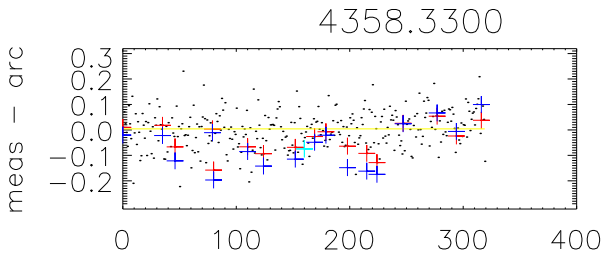

4046.5600
off: −0.01
sig: 0.054
4358.3300
off: −0.06
sig: 0.020
5460.9400
off: 0.10
sig: 0.017
5577.3390
off: 0.12
sig: 0.002
5889.9500
off: 0.17
sig: 0.009
5895.9240
off: 0.16
sig: 0.011

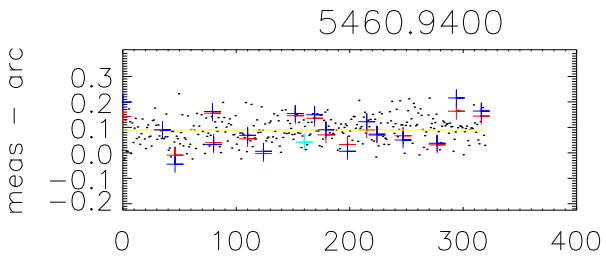

shift(pix)= 0.083
err(pix)= 0.064
oldshift(pix)=−0.011
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

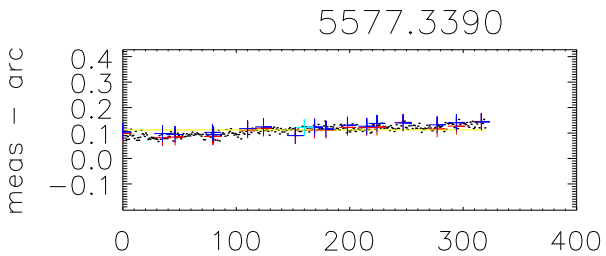

shift(pix)=−0.075
err(pix)= 0.024
oldshift(pix)=−0.062
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

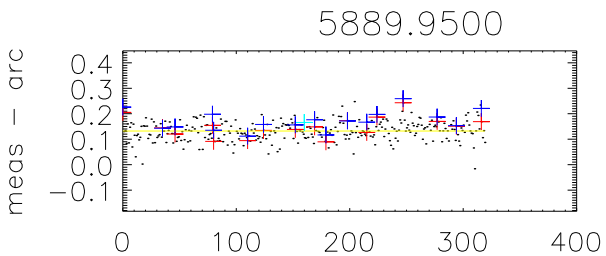

shift(pix)= 0.042
err(pix)= 0.021
oldshift(pix)= 0.098
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

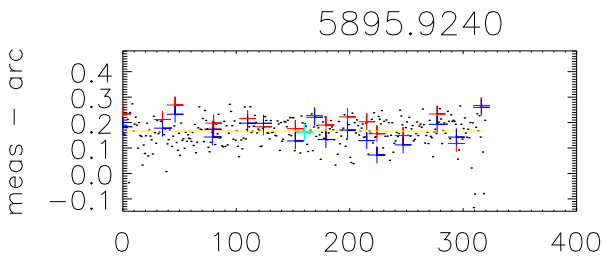

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

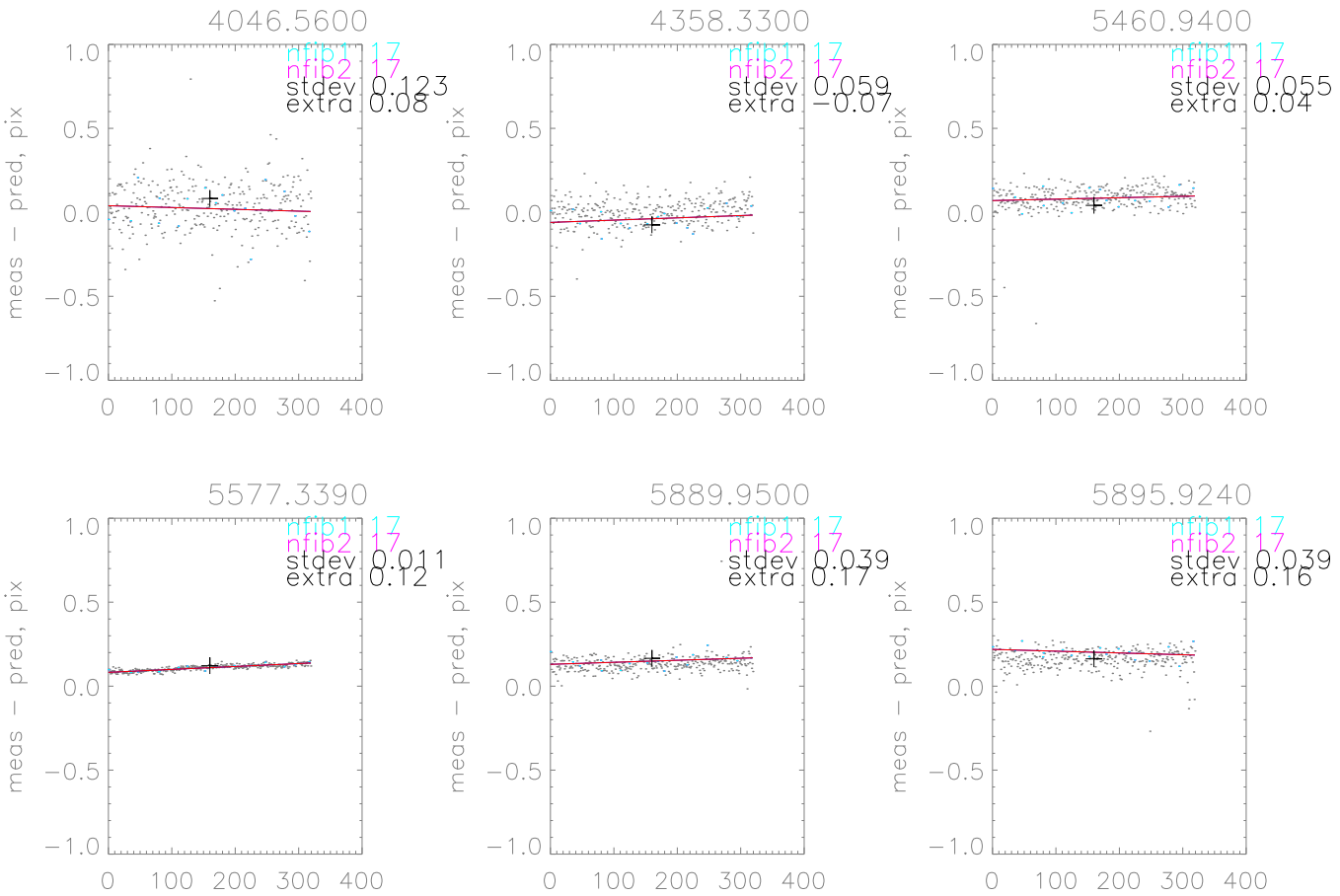

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

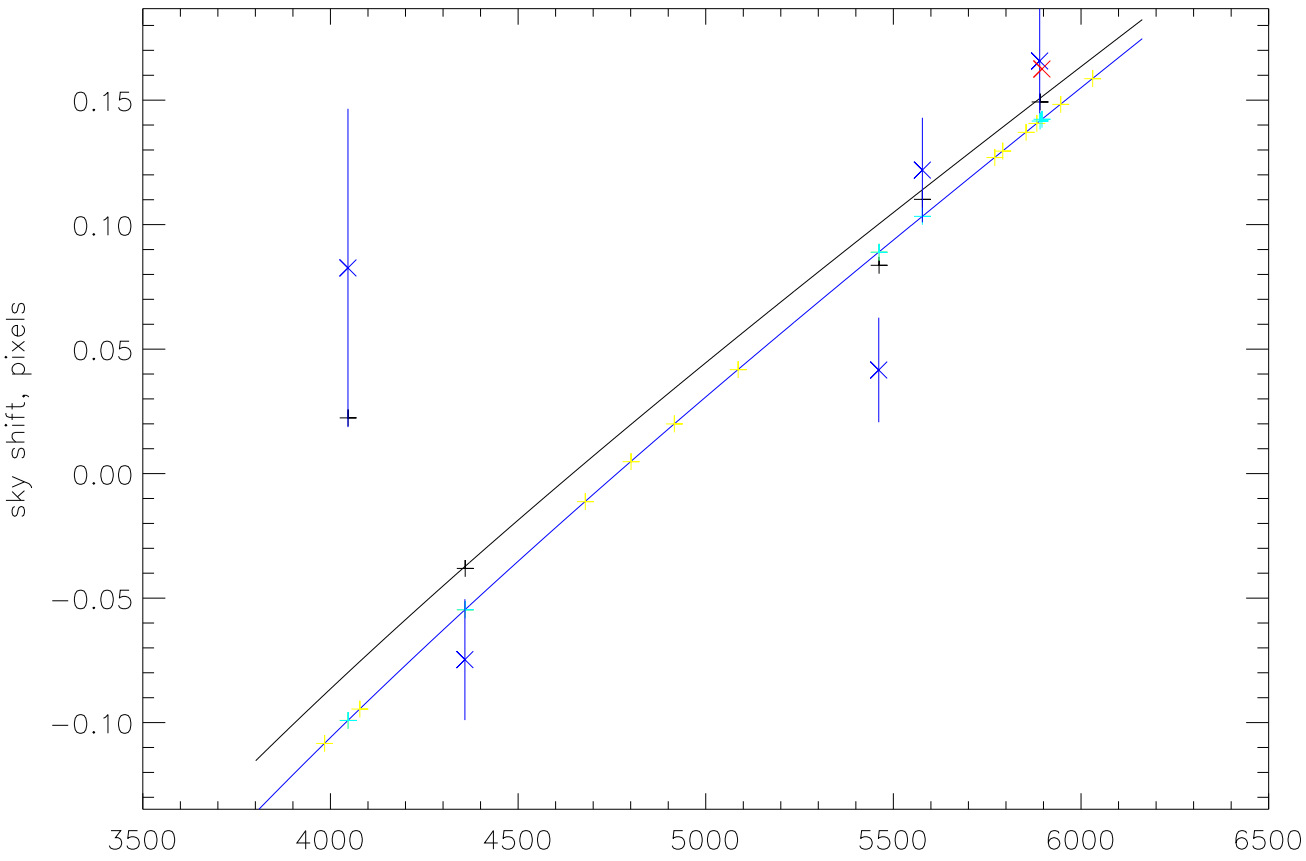

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

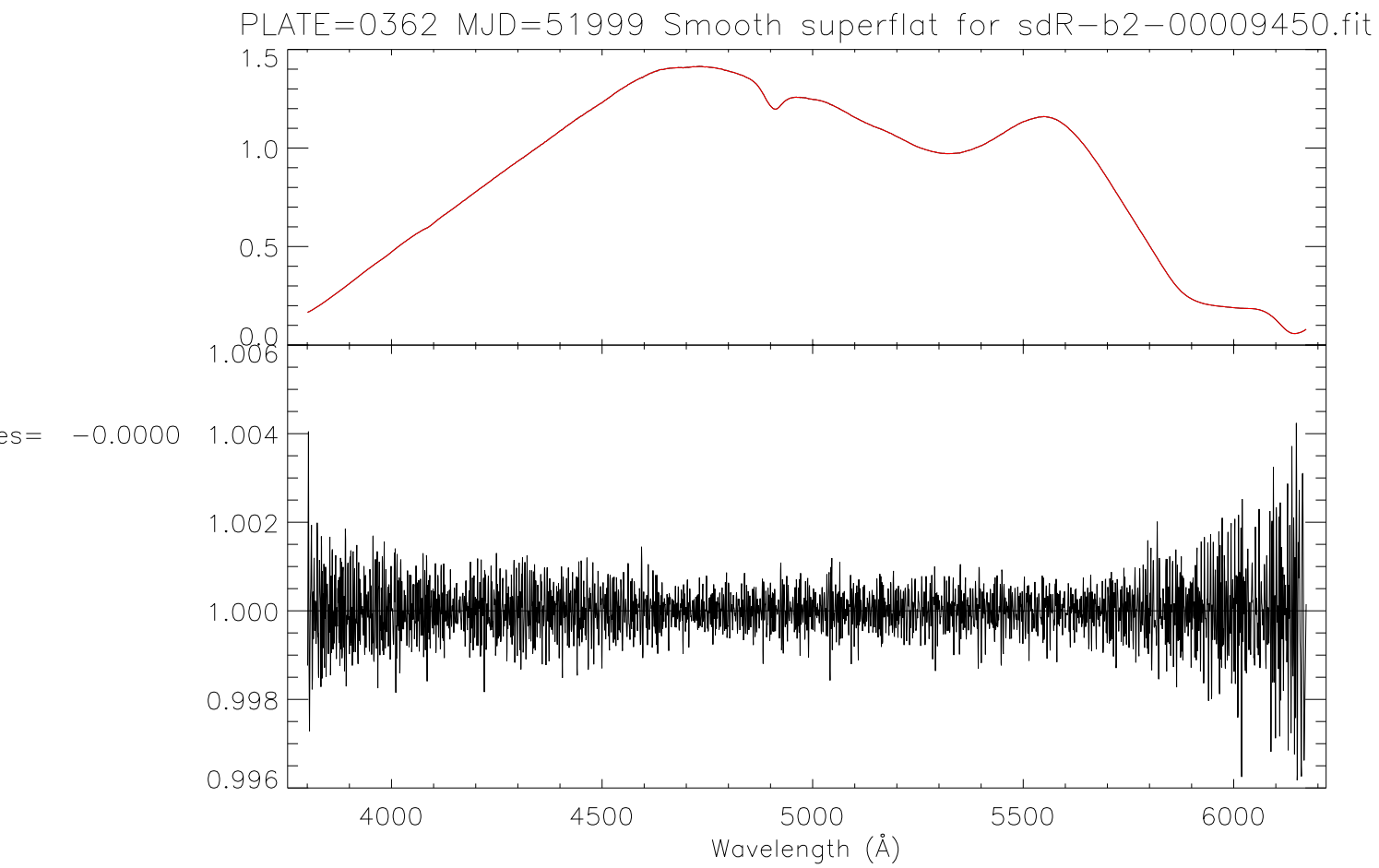

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

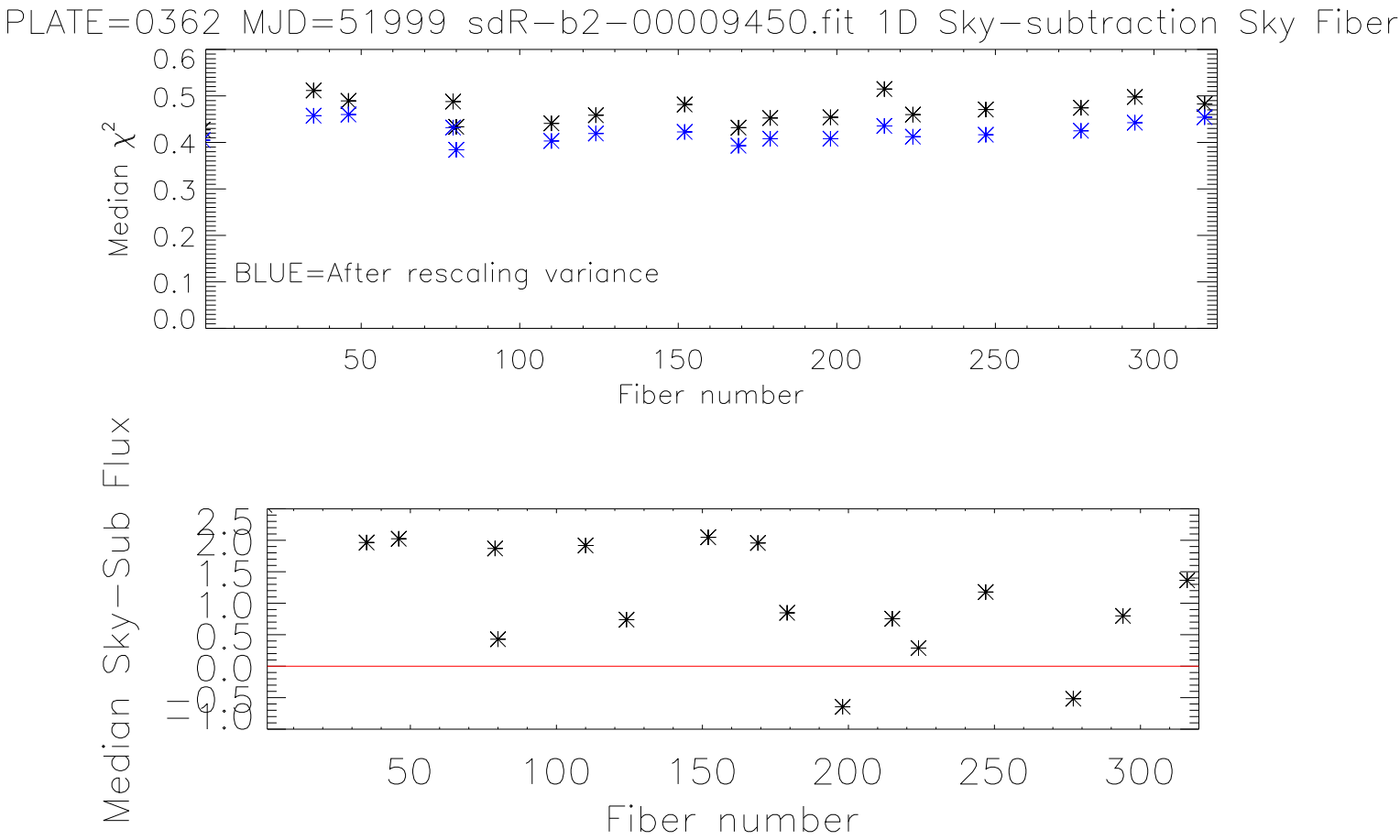

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

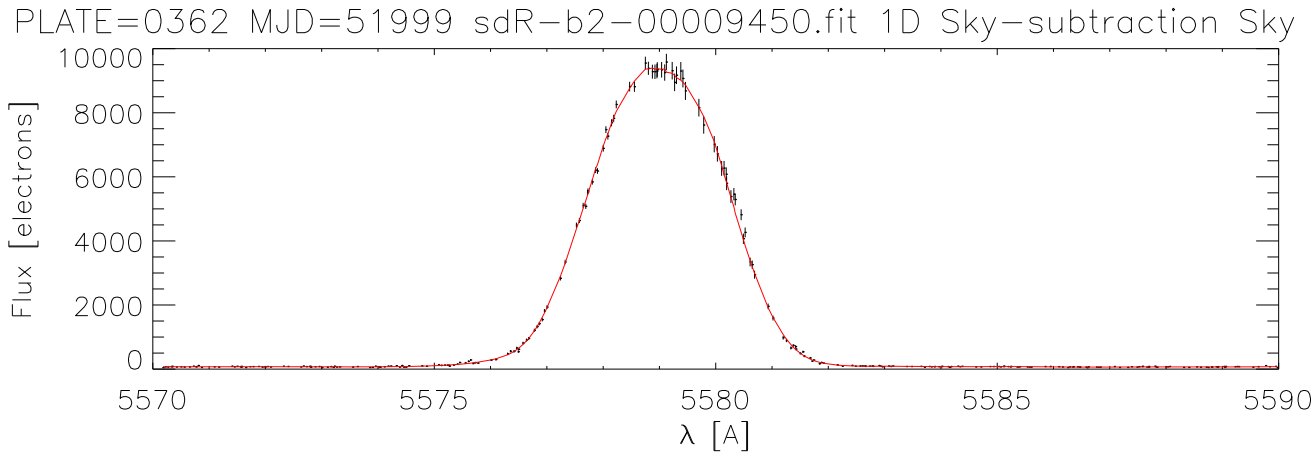

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

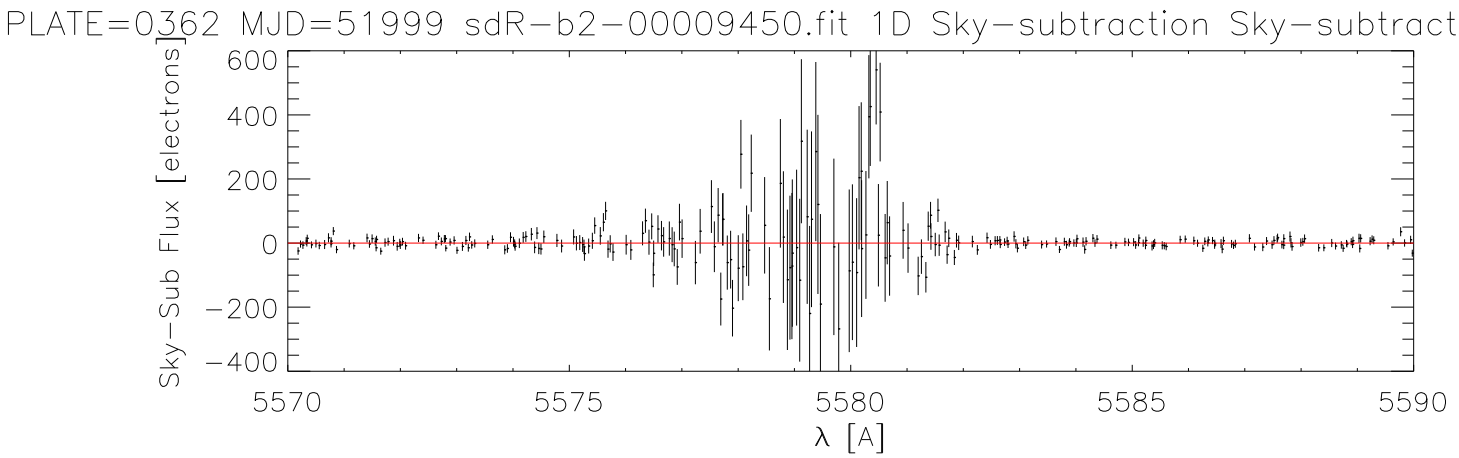

4046.5600
nfib1 17
nfib2 17
stdev 0.123
extra 0.08
4358.3300
nfib1 17
nfib2 17
stdev 0.059
extra −0.07
5460.9400
nfib1 17
nfib2 17
stdev 0.055
extra 0.04
5577.3390
nfib1 17
nfib2 17
stdev 0.011
extra 0.12
5889.9500
nfib1 17
nfib2 17
stdev 0.039
extra 0.17
5895.9240
nfib1 17
nfib2 17
stdev 0.039
extra 0.16
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

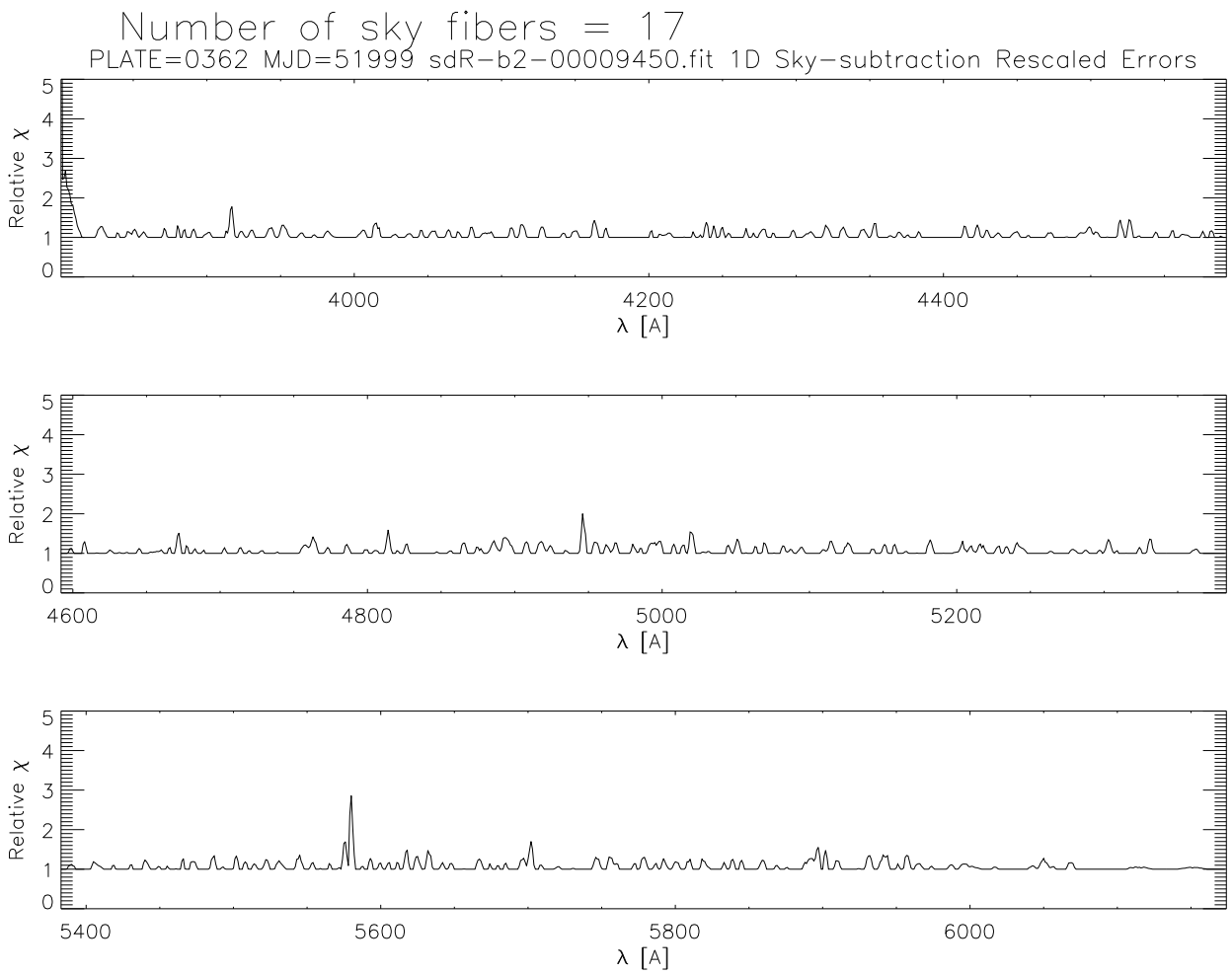

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
3500
4000
4500
5000
5500
6000
6500

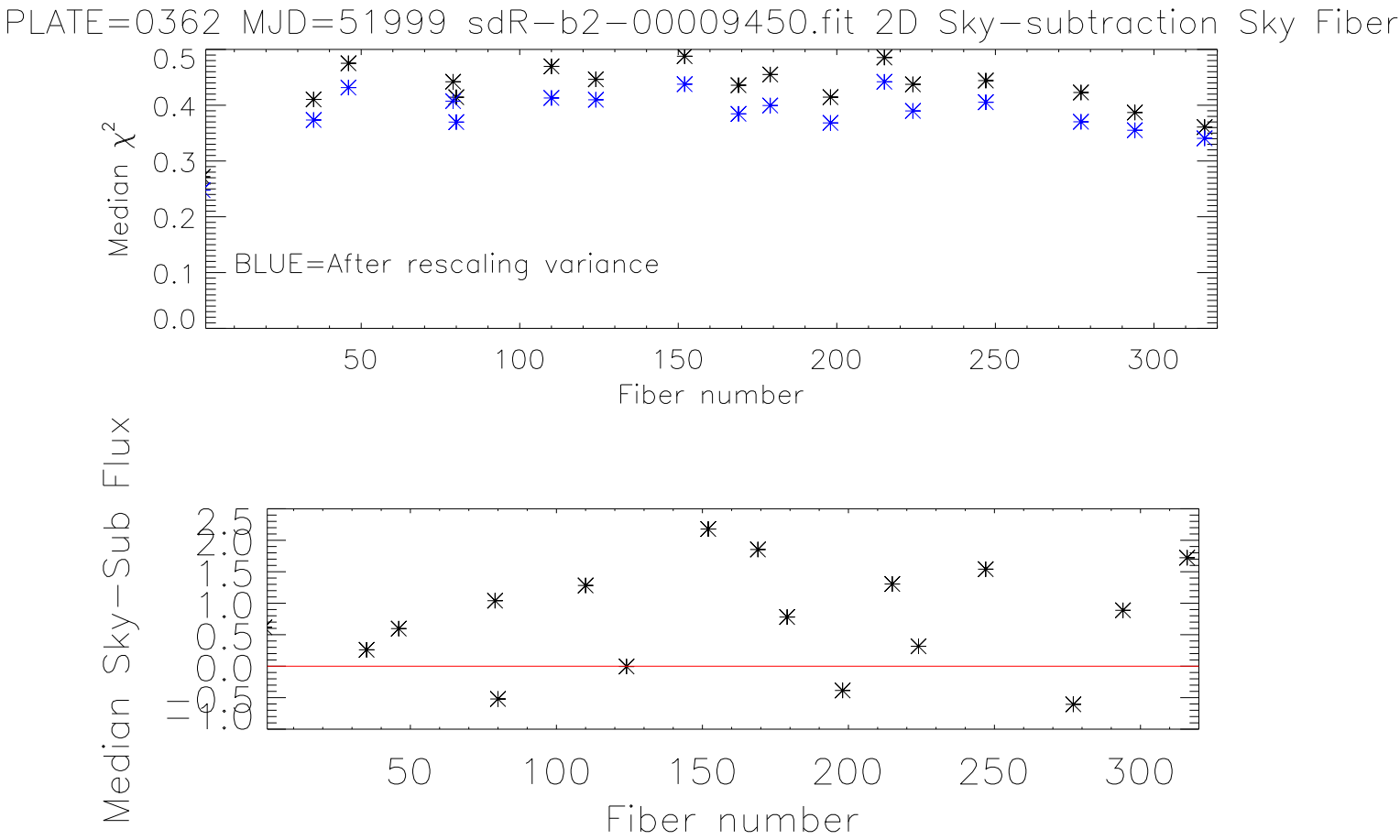

PLATE=0362 MJD=51999 Smooth superflat for sdR-b2-00009450.fit
1.5
1.0
0.5
0.0
1.006
es= -0.0000
1.004
1.002
1.000
0.998
0.996
4000
4500
5000
5500
6000
Wavelength (Å)

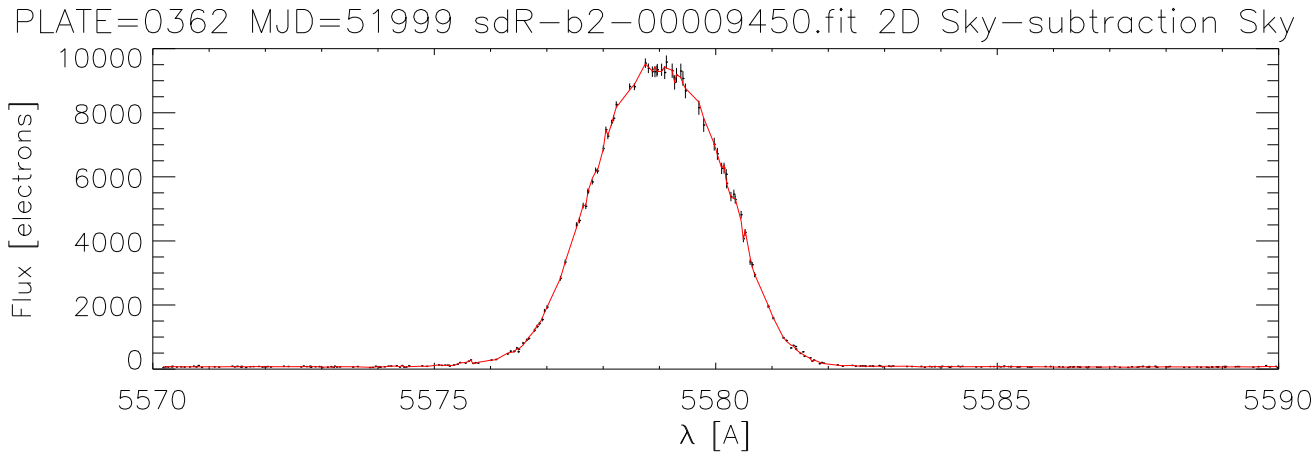

PLATE=0362 MJD=51999 sdR-b2-00009450.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

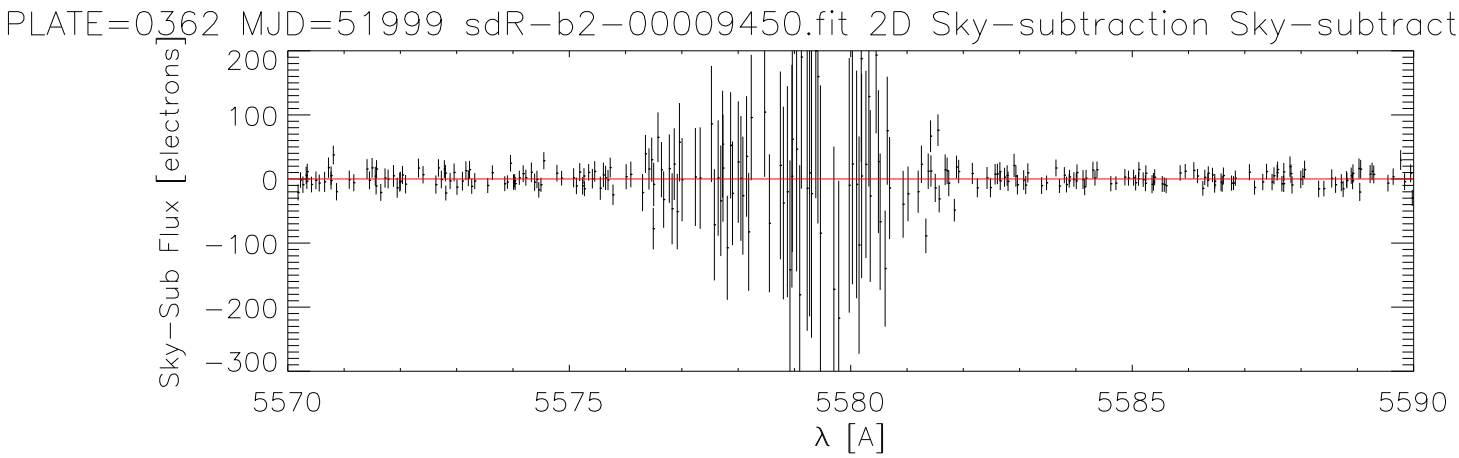

PLATE=0362 MJD=51999 sdR-b2-00009450.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

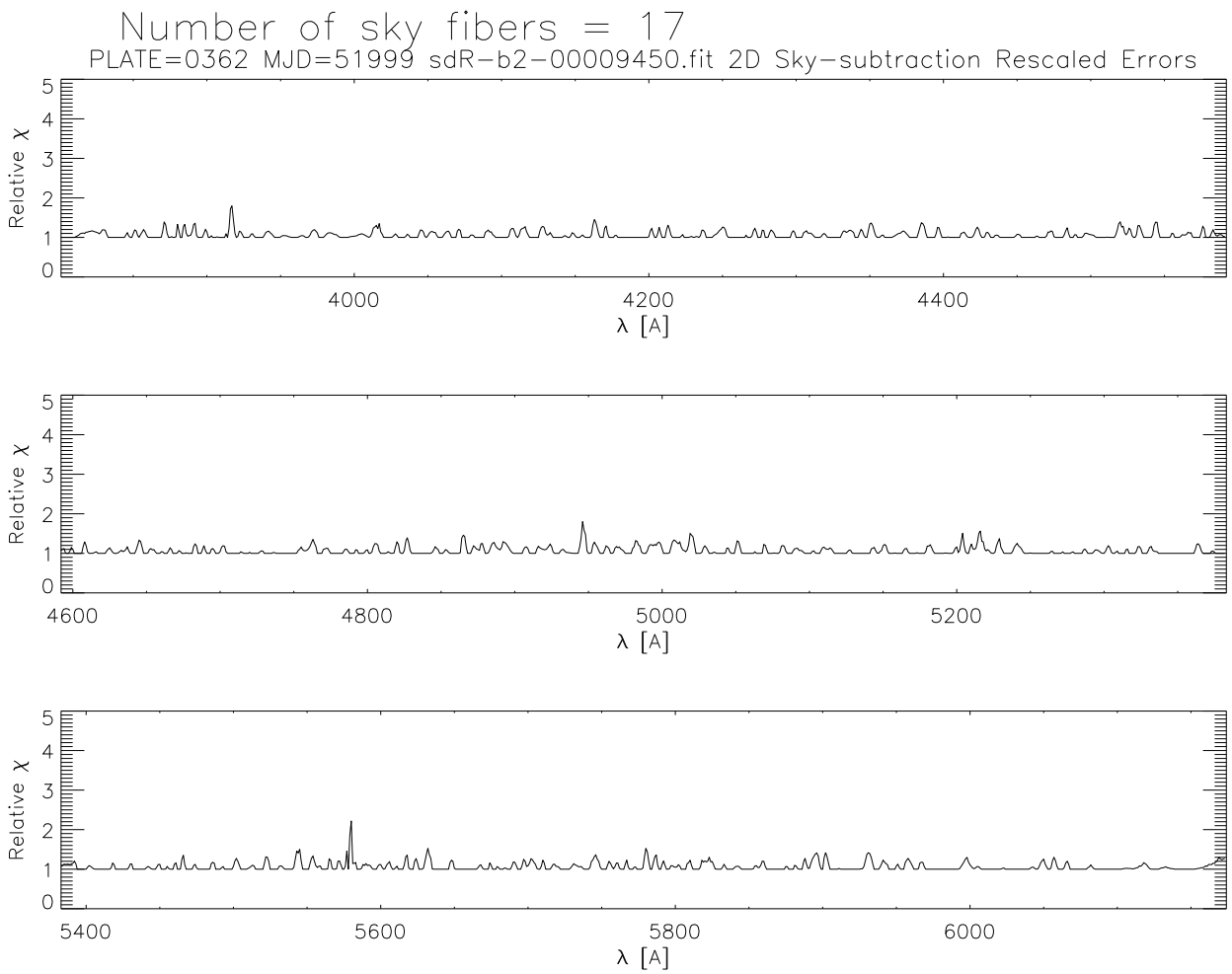

PLATE=0362 MJD=51999 sdR-b2-00009450.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

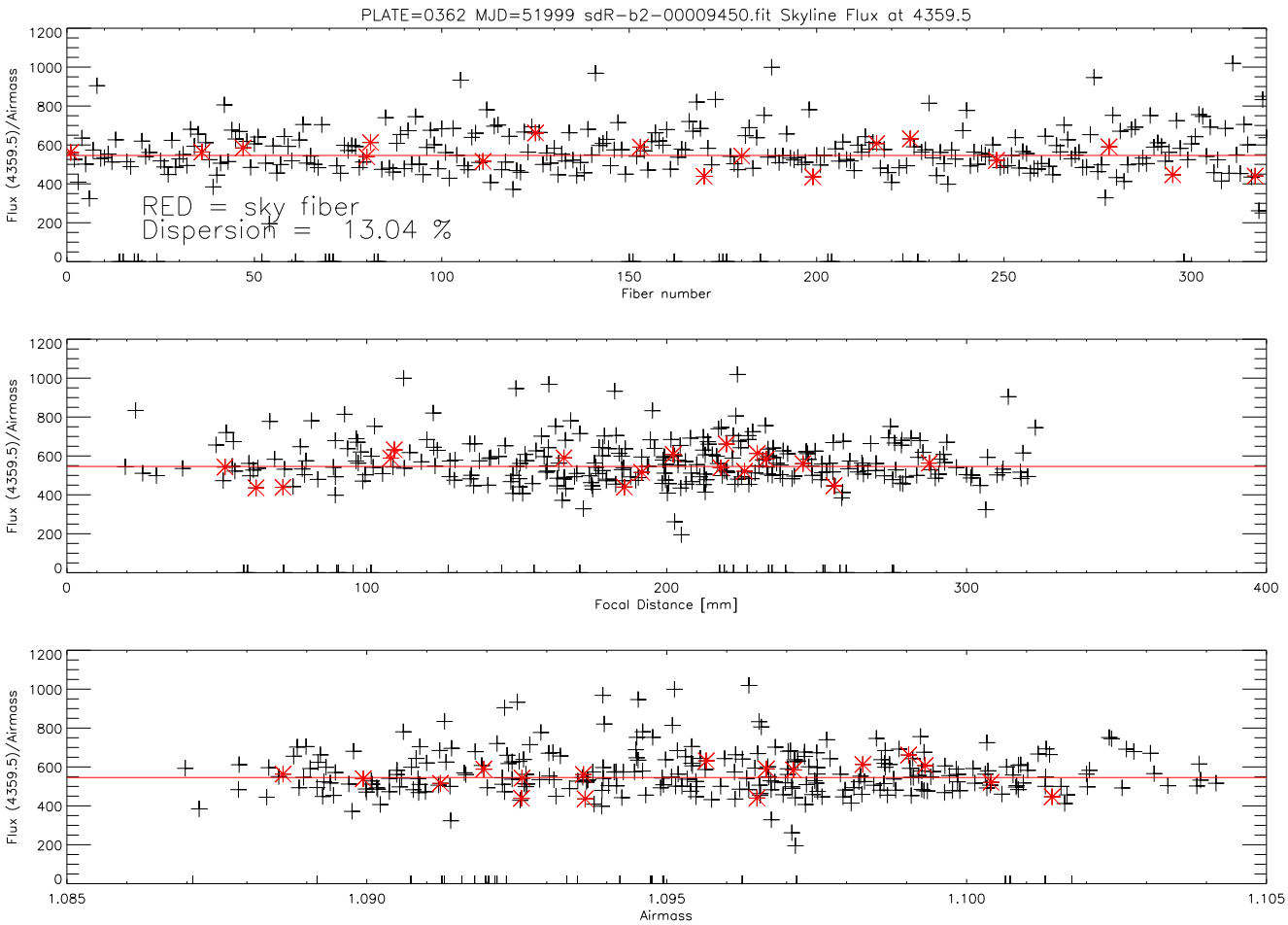

Number of sky fibers = 17
PLATE=0362 MJD=51999 sdR-b2-00009450.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

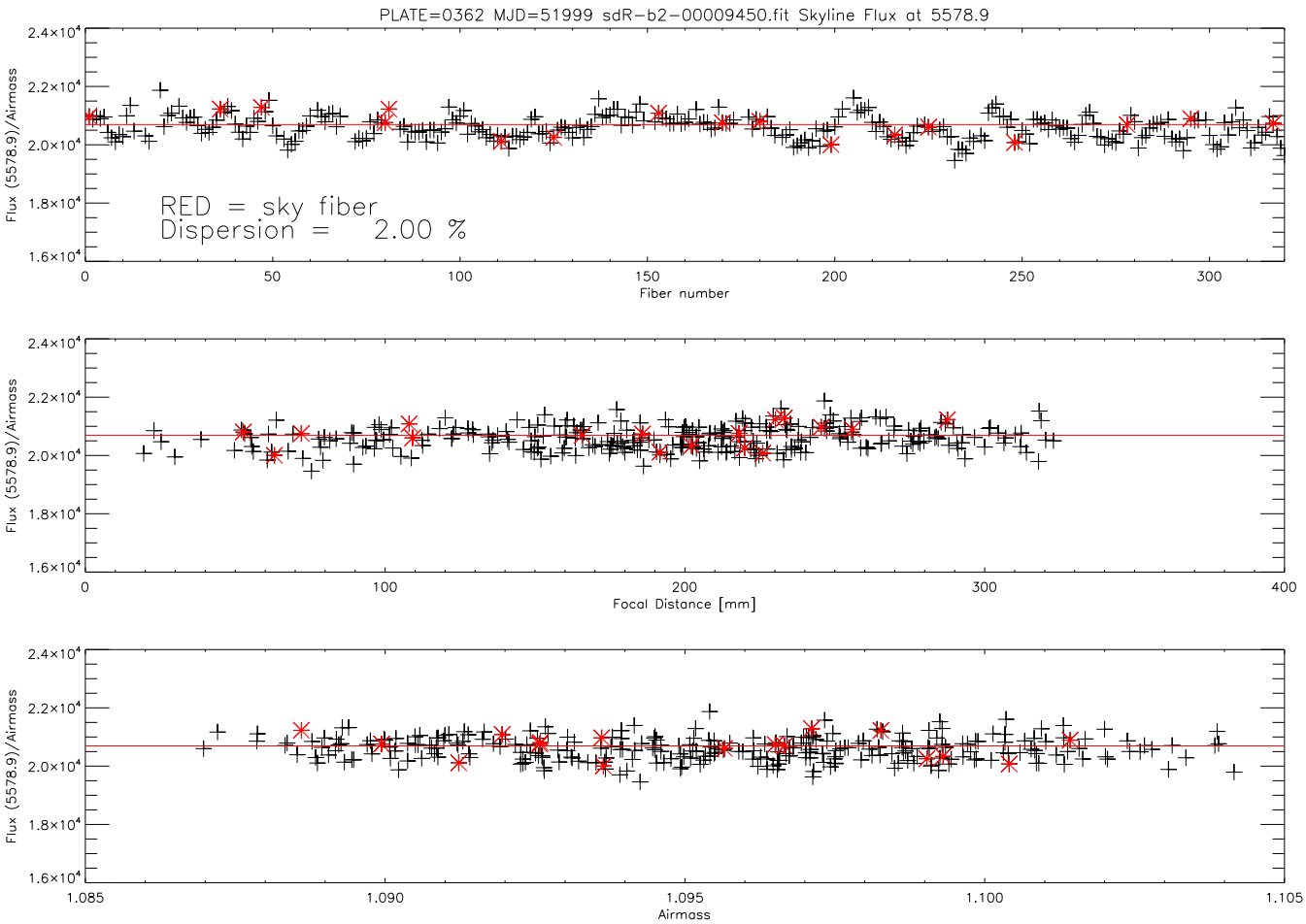

PLATE=0362 MJD=51999 sdR-b2-00009450.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

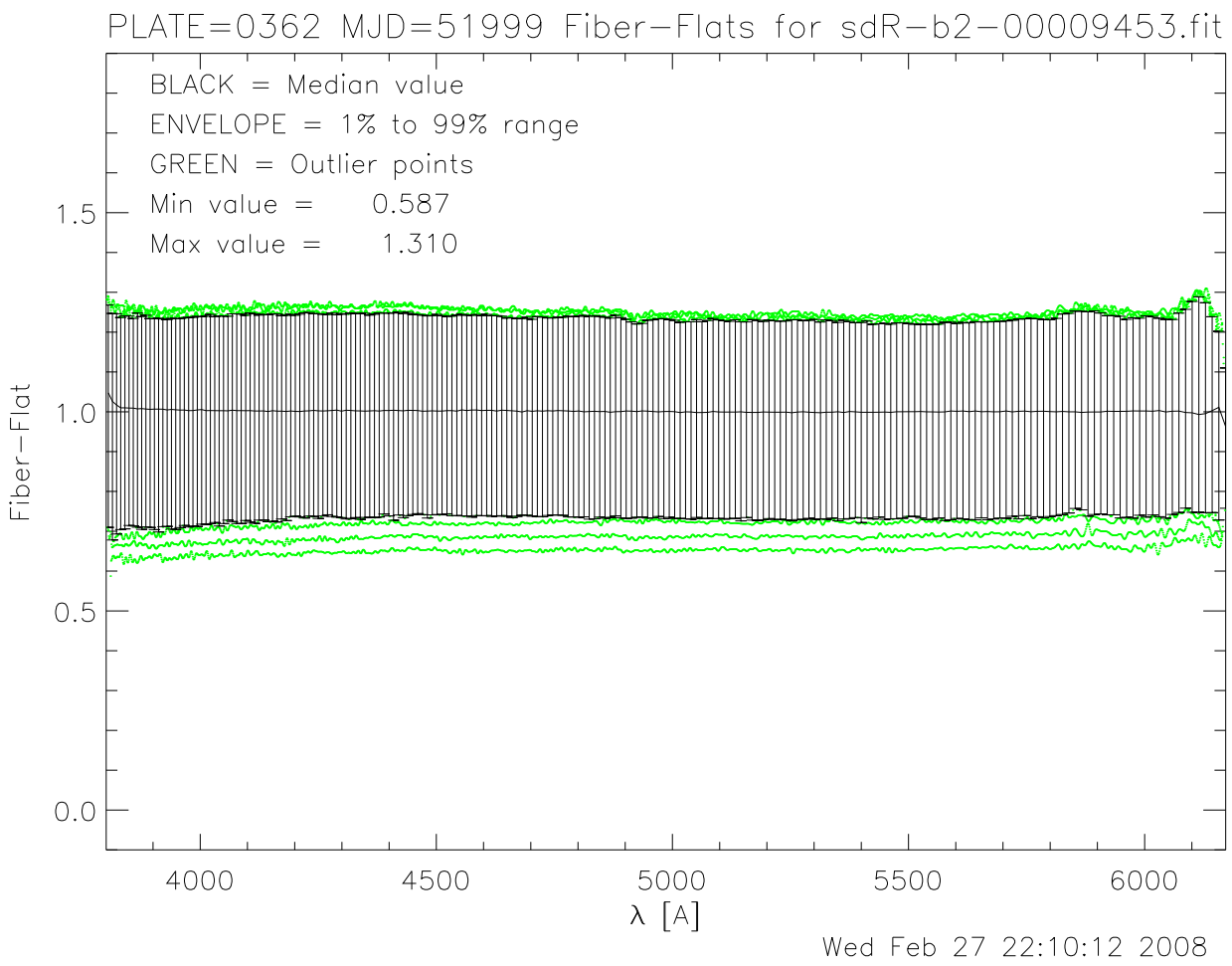

PLATE=0362 MJD=51999 sdR-b2-00009450.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=0362 MJD=51999 sdR-b2-00009450.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]


Number of sky fibers = 17
PLATE=0362 MJD=51999 sdR-b2-00009450.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000


PLATE=0362 MJD=51999 sdR-b2-00009450.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 13.04 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass


PLATE=0362 MJD=51999 sdR-b2-00009450.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
2.4×10^4
2.2×10^4
2.0×10^4
1.8×10^4
1.6×10^4
RED = sky fiber
Dispersion = 2.00 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
2.4×10^4
2.2×10^4
2.0×10^4
1.8×10^4
1.6×10^4
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
2.4×10^4
2.2×10^4
2.0×10^4
1.8×10^4
1.6×10^4
1.085
1.090
1.095
1.100
1.105
Airmass


PLATE=0362 MJD=51999 Fiber-Flats for sdR-b2-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.587
Max value = 1.310
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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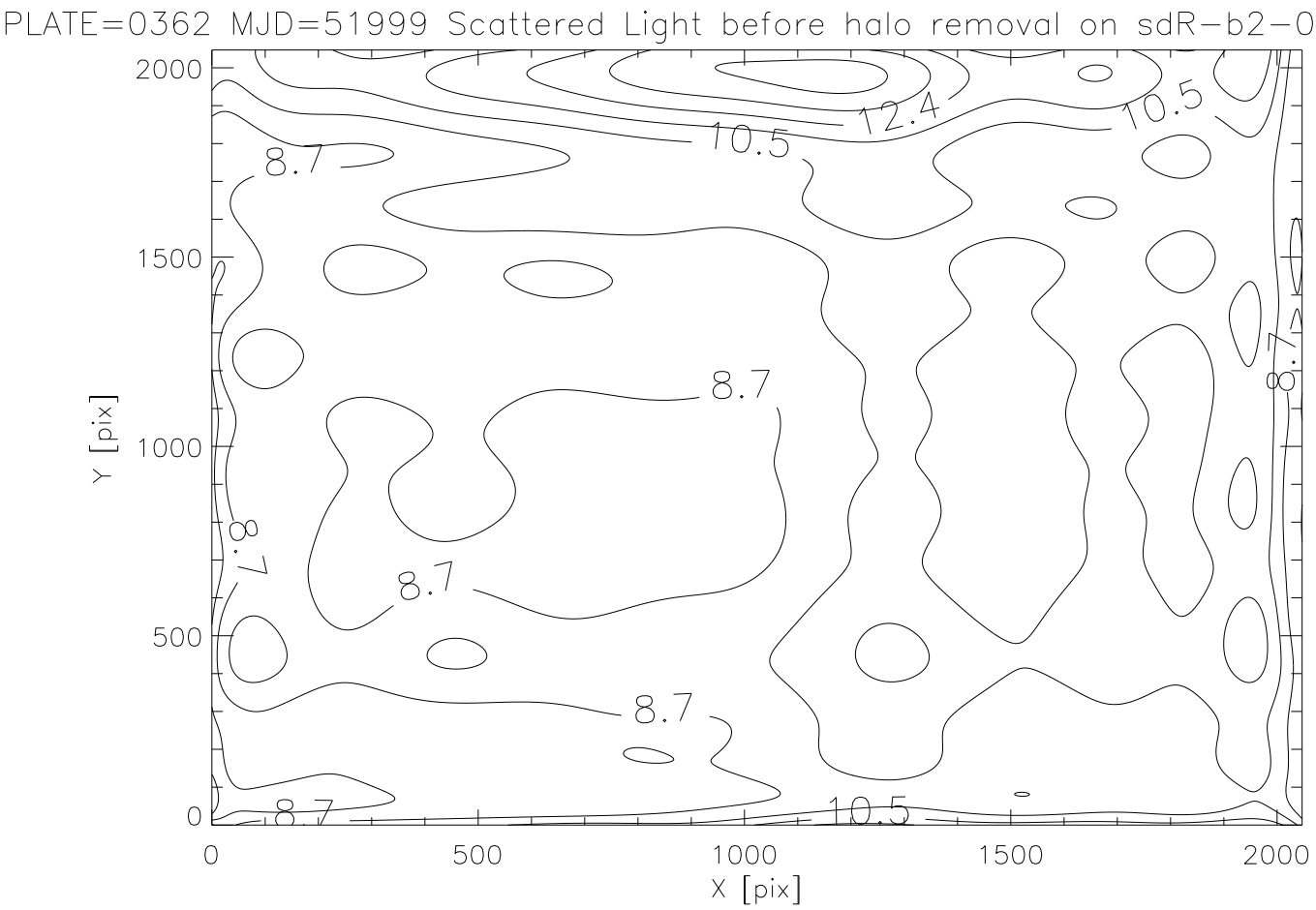
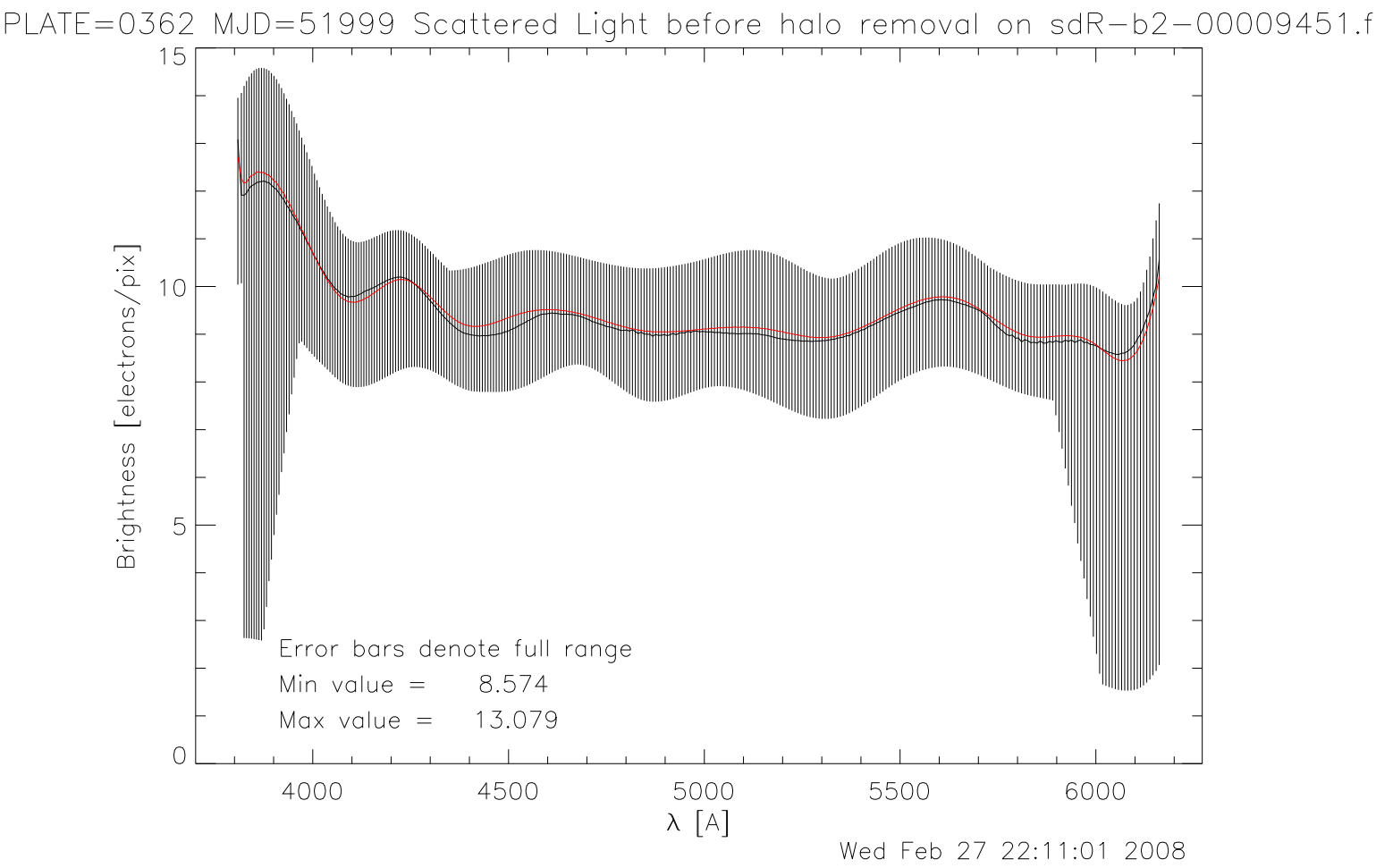
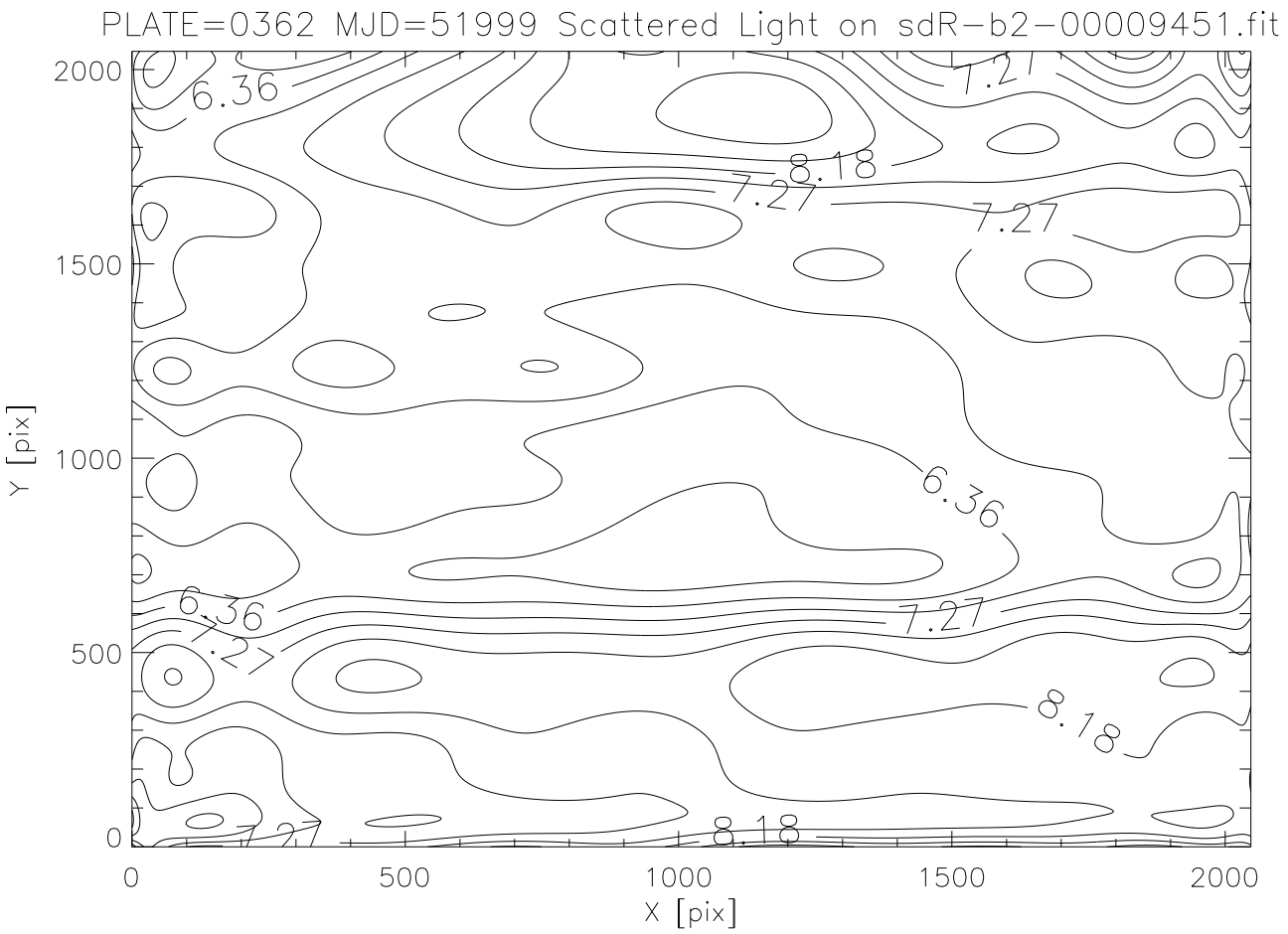
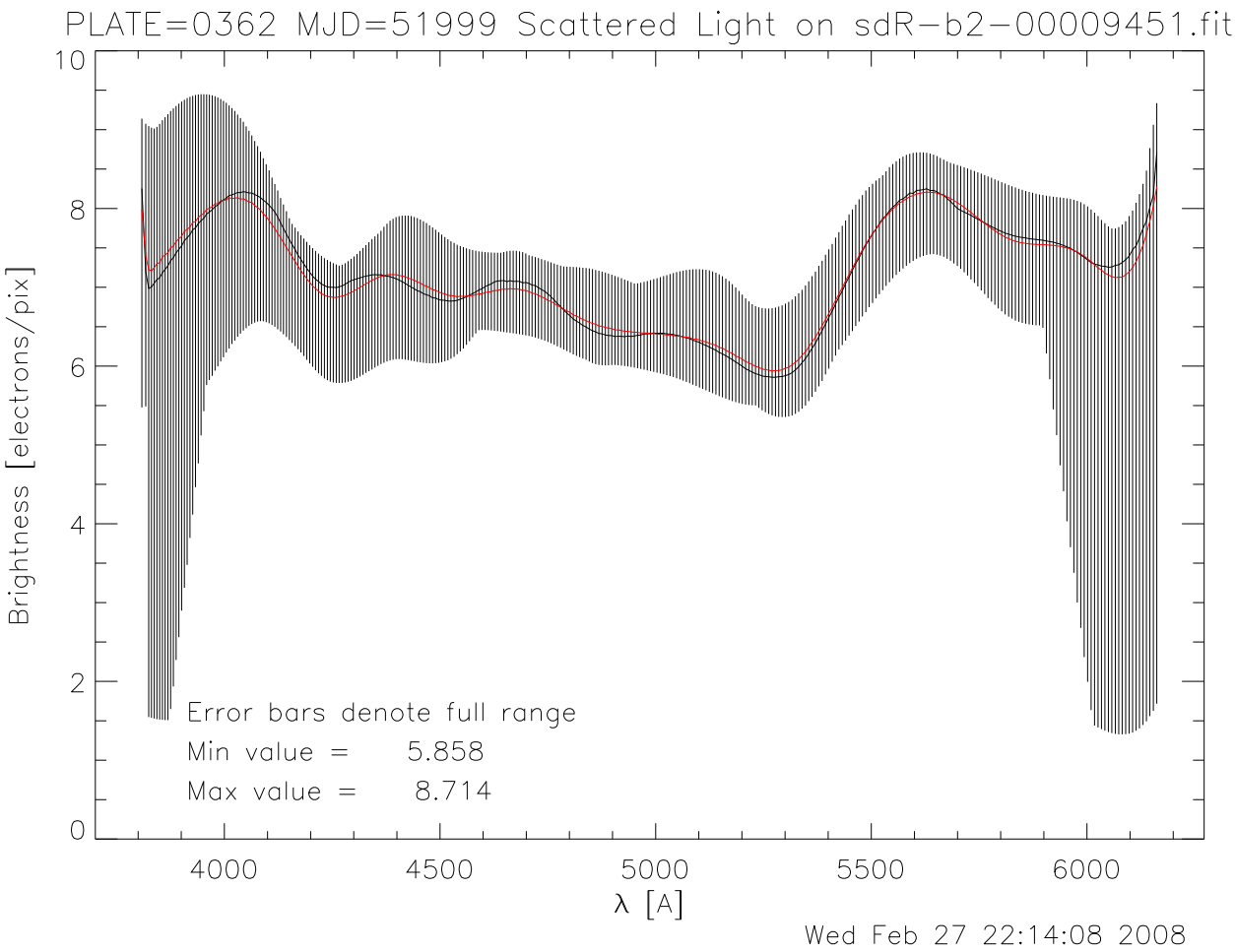
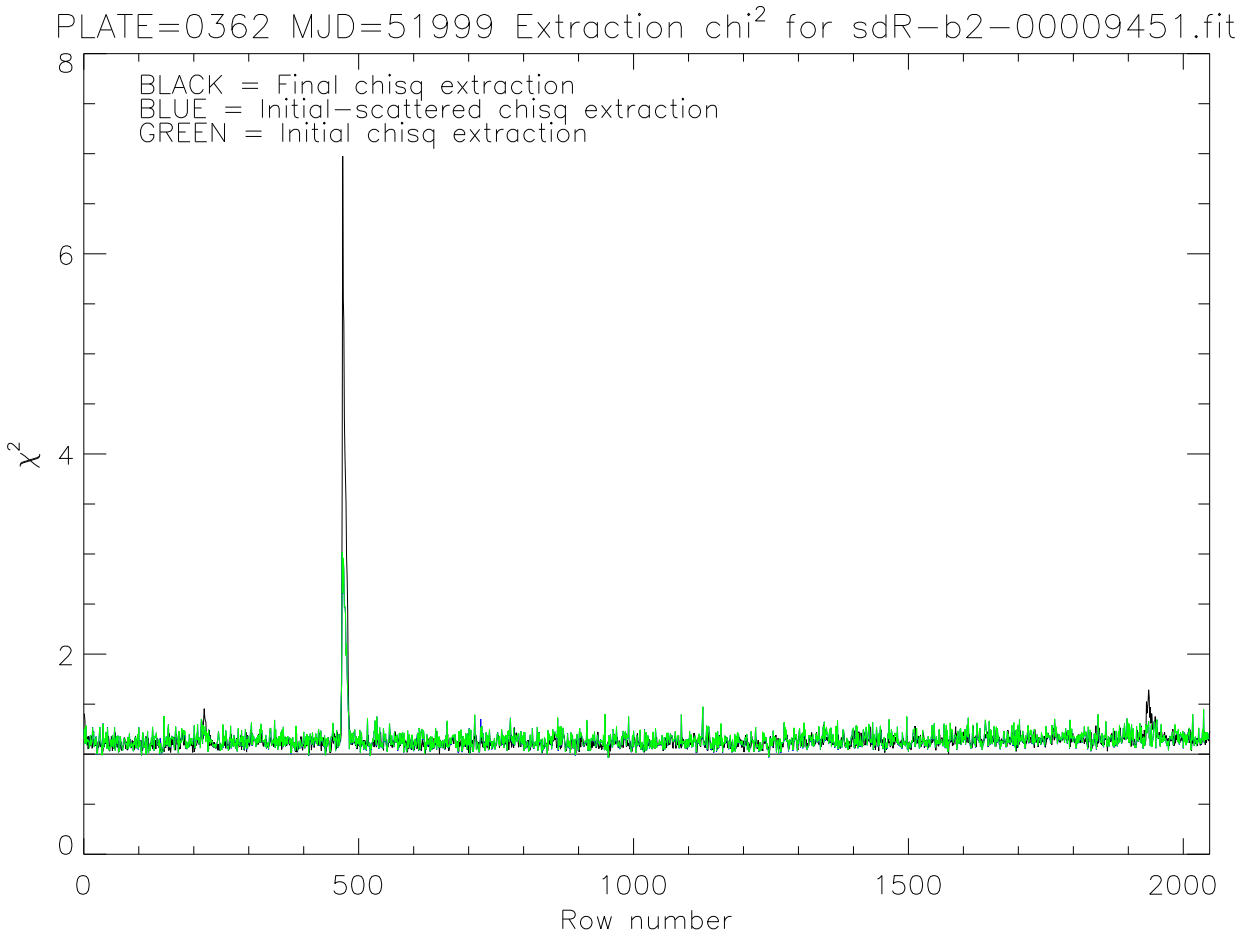
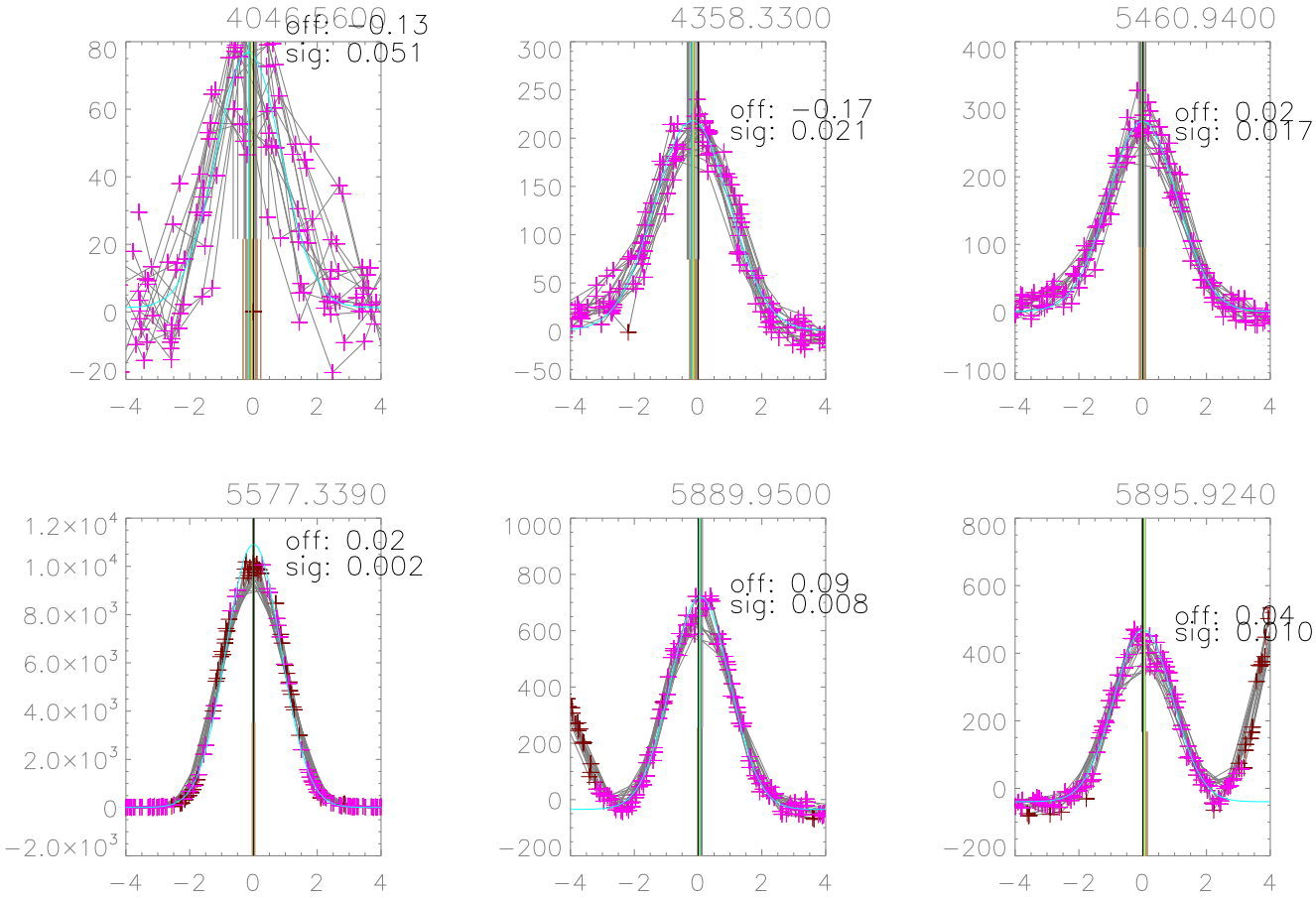

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR−b2−00009451.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
12.4
10.5
10.5
8.7
8.7
8.7
8.7
8.7
8.7
8.7
8.7
8.7
8.7
10.5

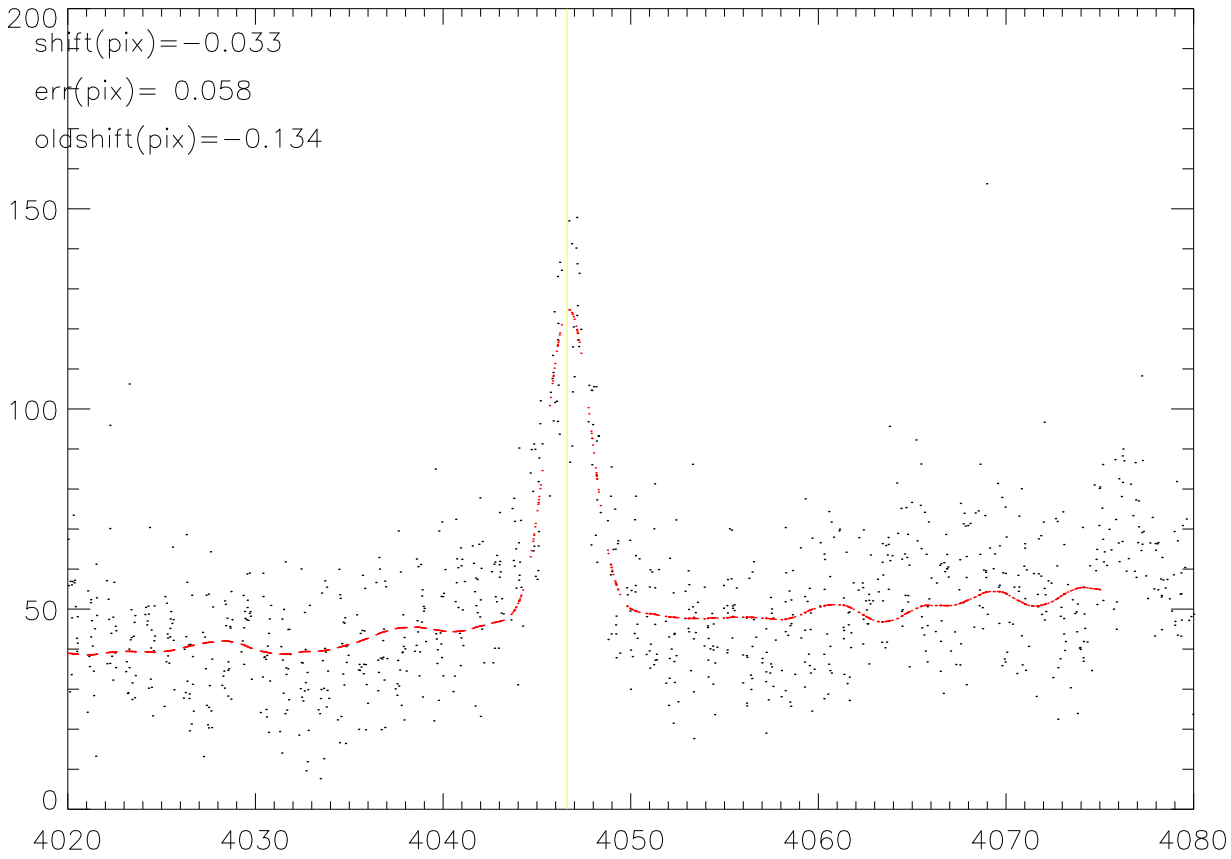

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-b2-00009451.f
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 8.574
Max value = 13.079
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 22:11:01 2008

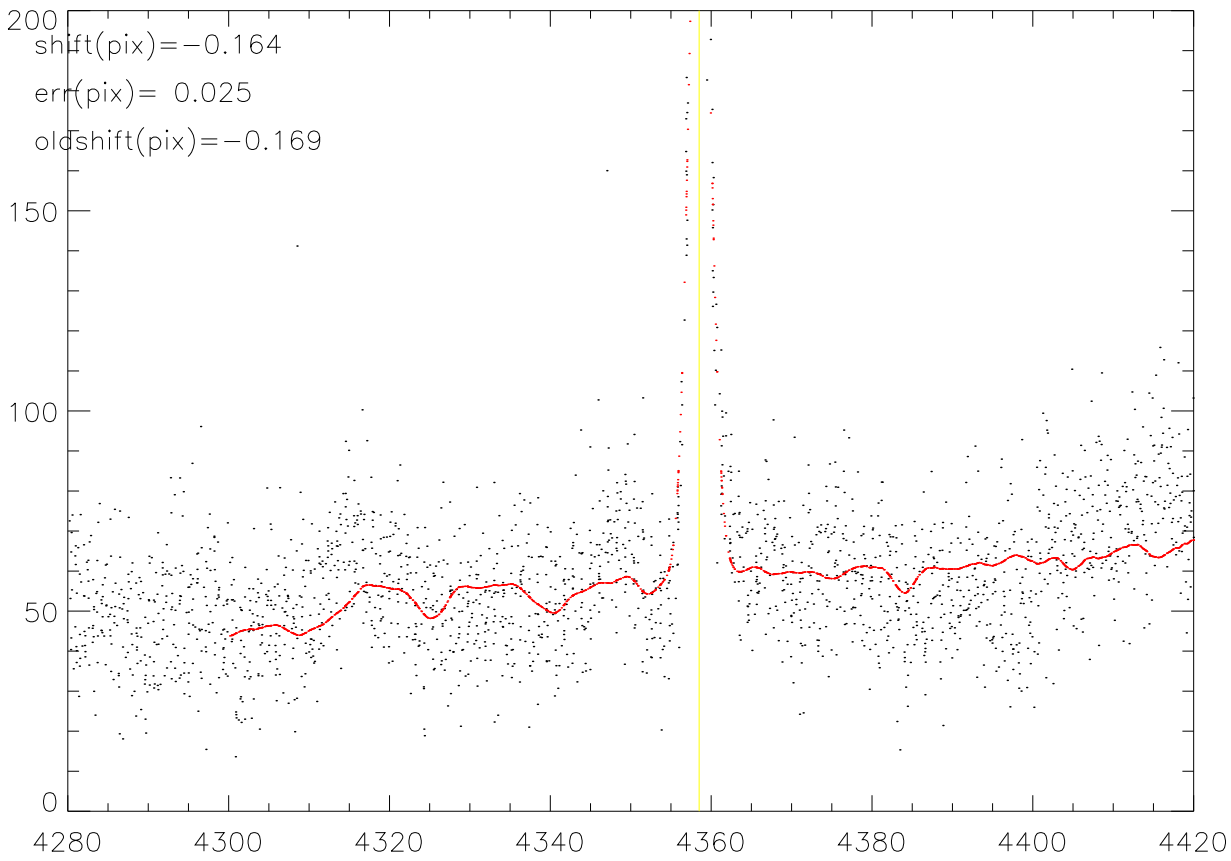

PLATE=0362 MJD=51999 Scattered Light on sdR-b2-00009451.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.36
7.27
8.18

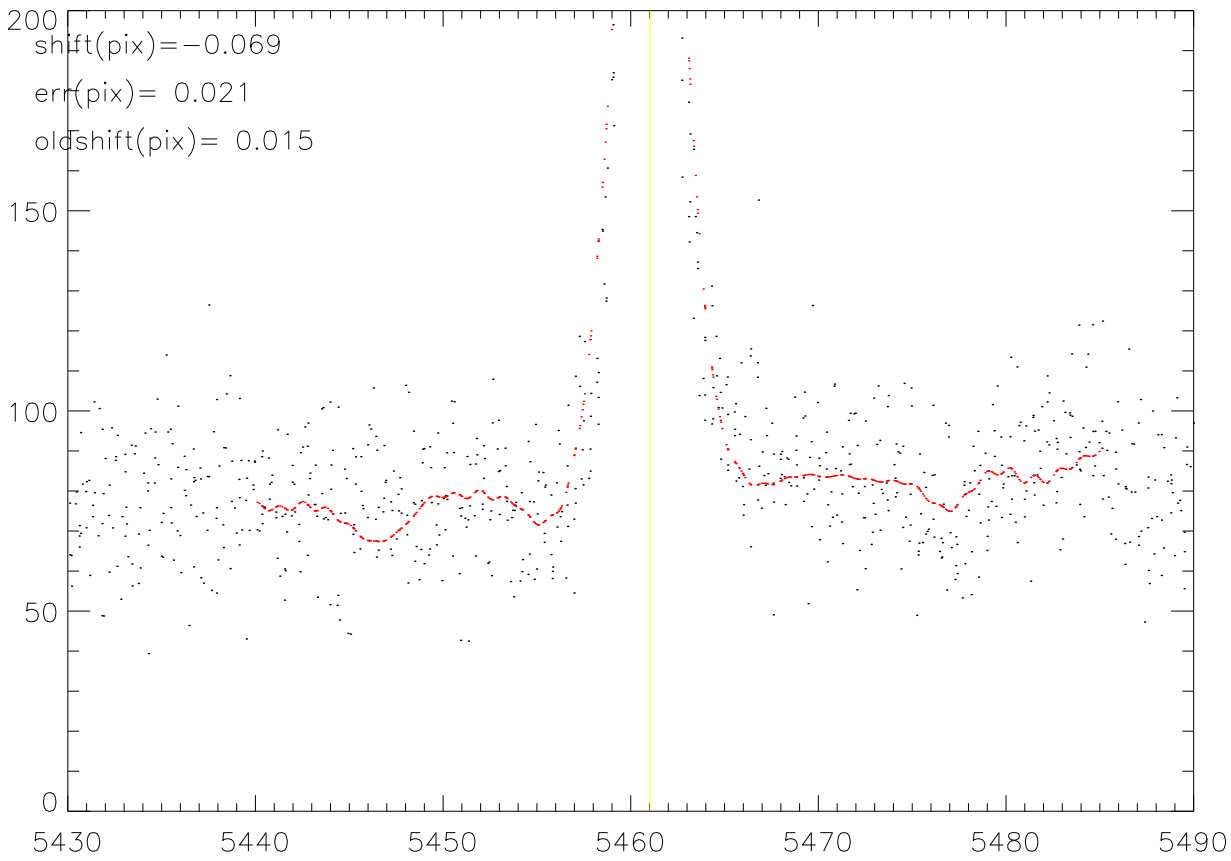

PLATE=0362 MJD=51999 Scattered Light on sdR-b2-00009451.fit
Brightness [electrons/pix]
10
8
6
4
2
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.858
Max value = 8.714
Wed Feb 27 22:14:08 2008

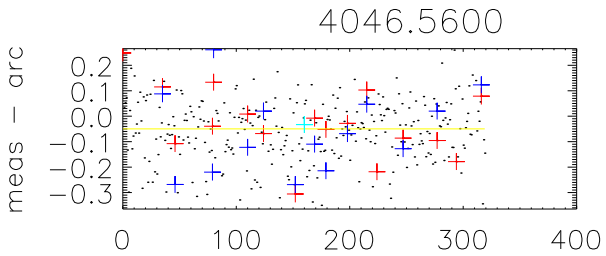

PLATE=0362 MJD=51999 Extraction chi^2 for sdR−b2−00009451.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

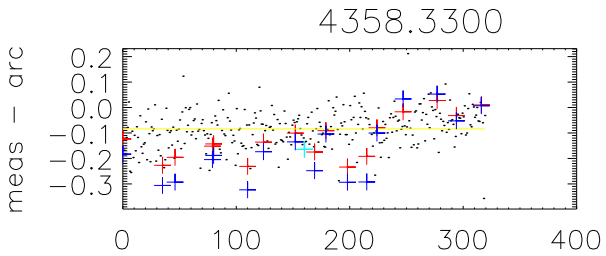

4046.5600
off: −0.13
sig: 0.051
4358.3300
off: −0.17
sig: 0.021
5460.9400
off: 0.02
sig: 0.017
5577.3390
off: 0.02
sig: 0.002
5889.9500
off: 0.09
sig: 0.008
5895.9240
off: 0.04
sig: 0.010

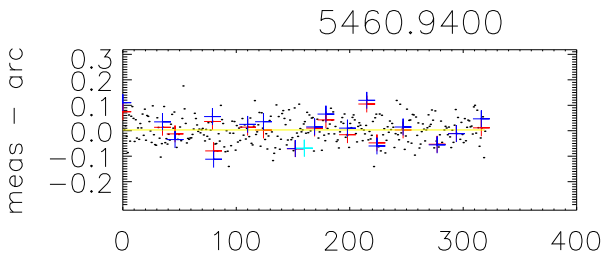

shift(pix)=−0.033
err(pix)= 0.058
oldshift(pix)=−0.134
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

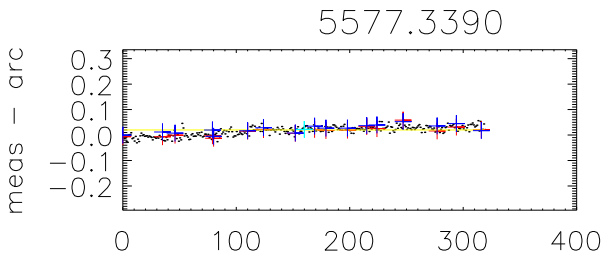

shift(pix)=−0.164
err(pix)= 0.025
oldshift(pix)=−0.169
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

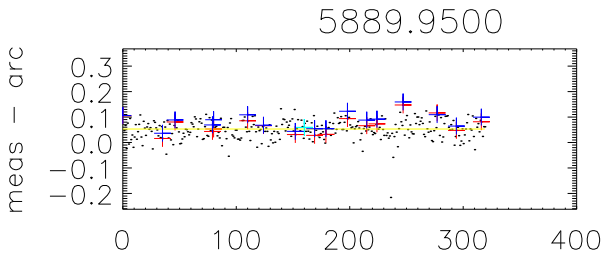

shift(pix)=−0.069
err(pix)= 0.021
oldshift(pix)= 0.015
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

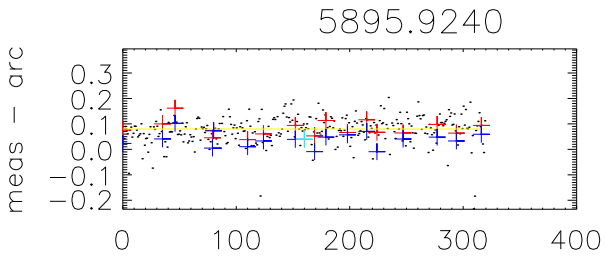

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

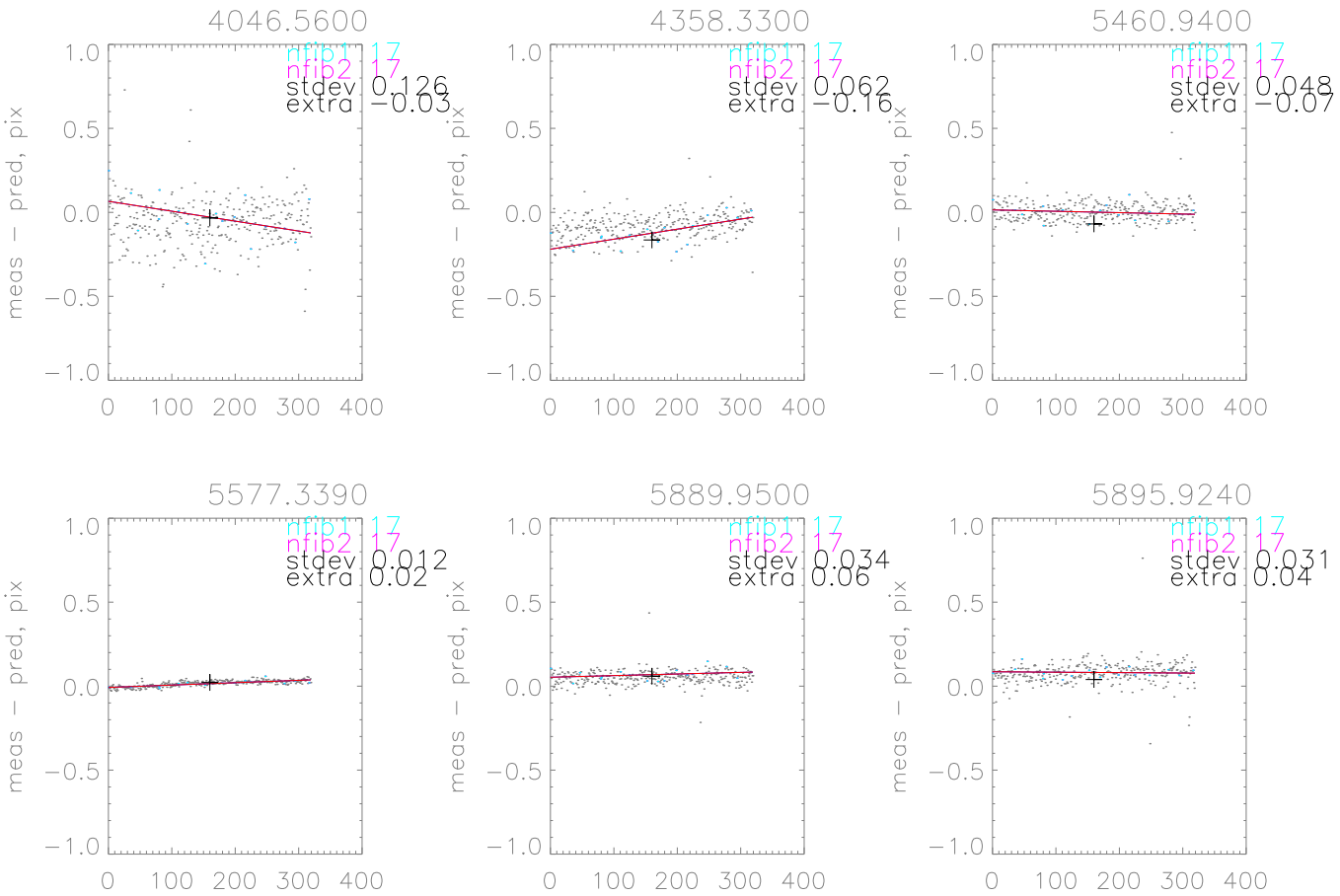

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

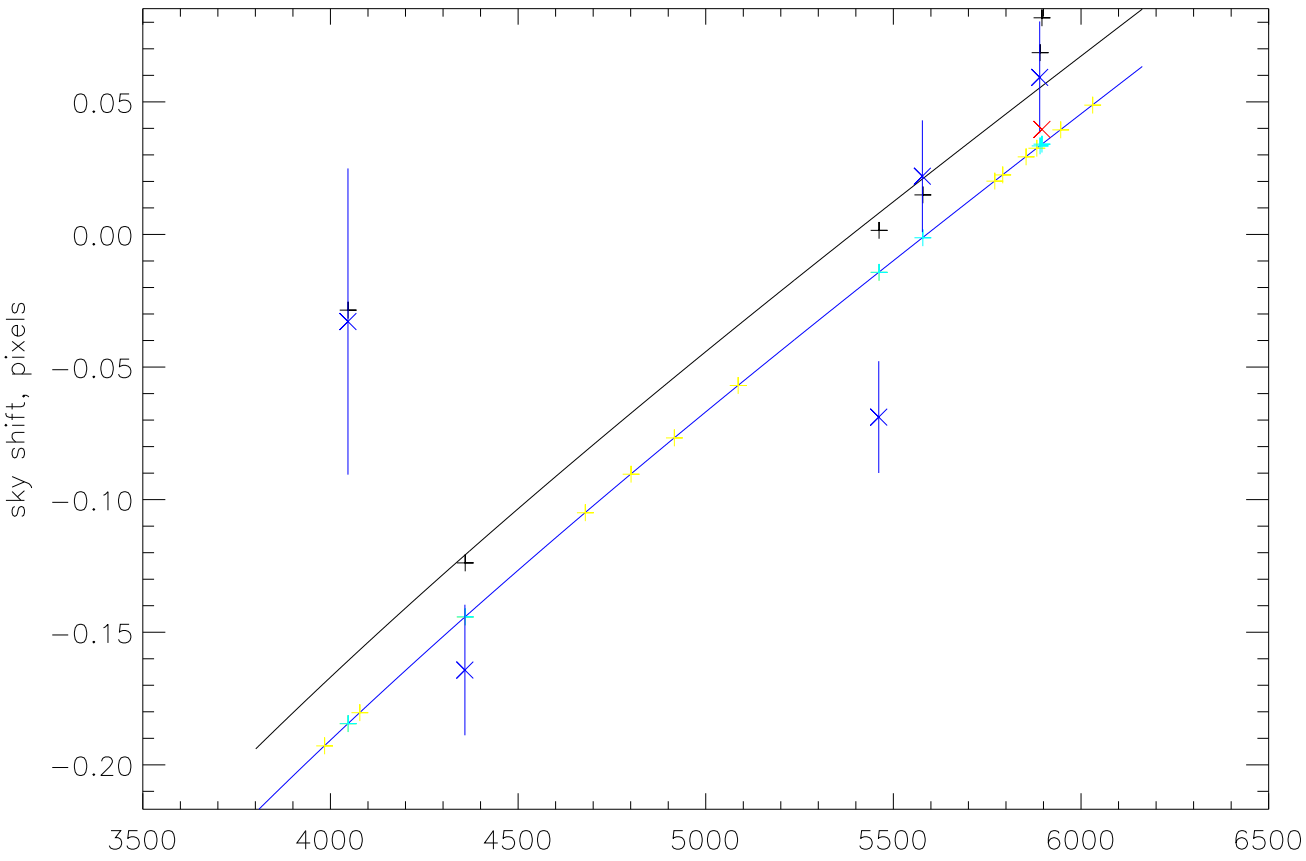

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

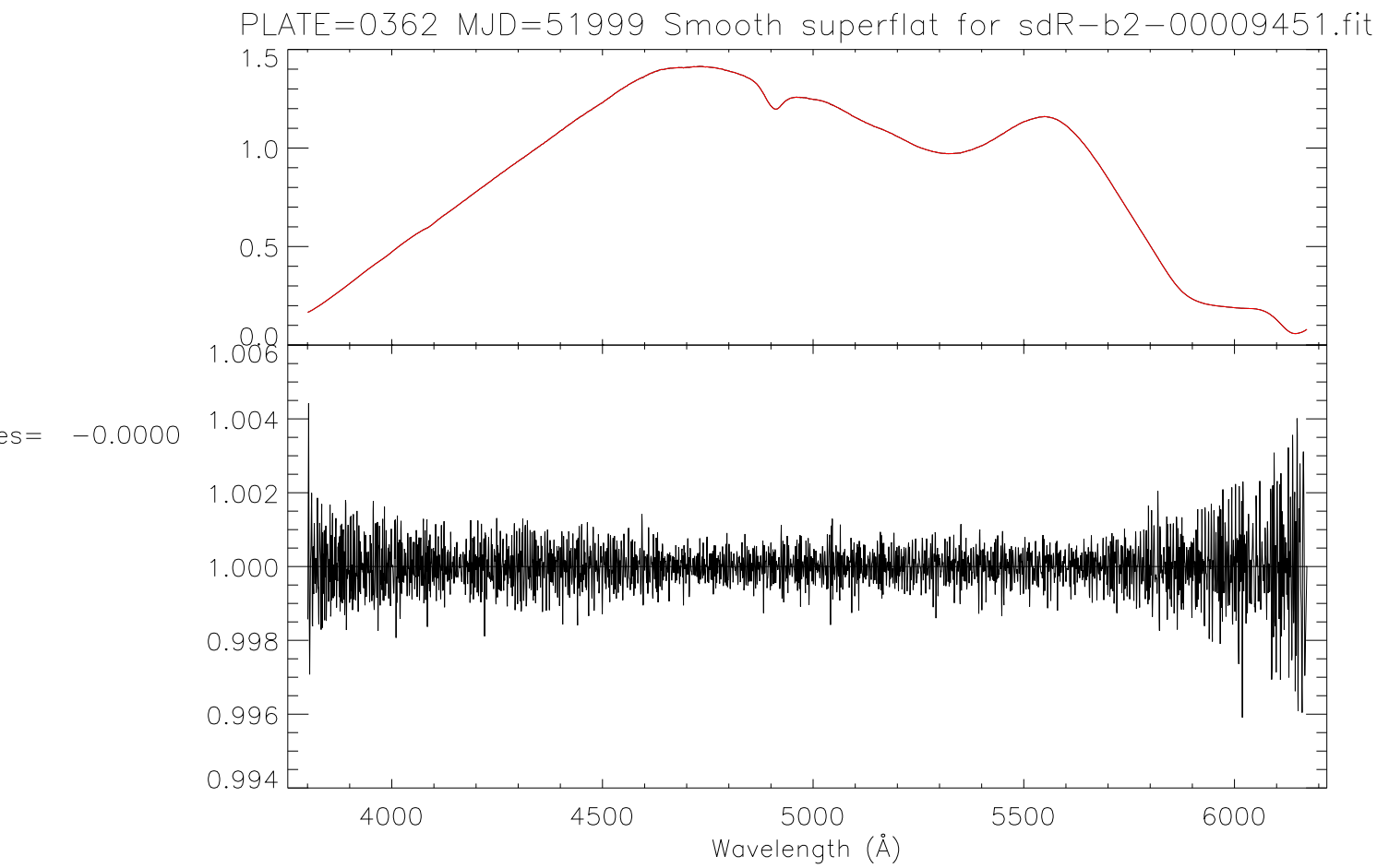

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

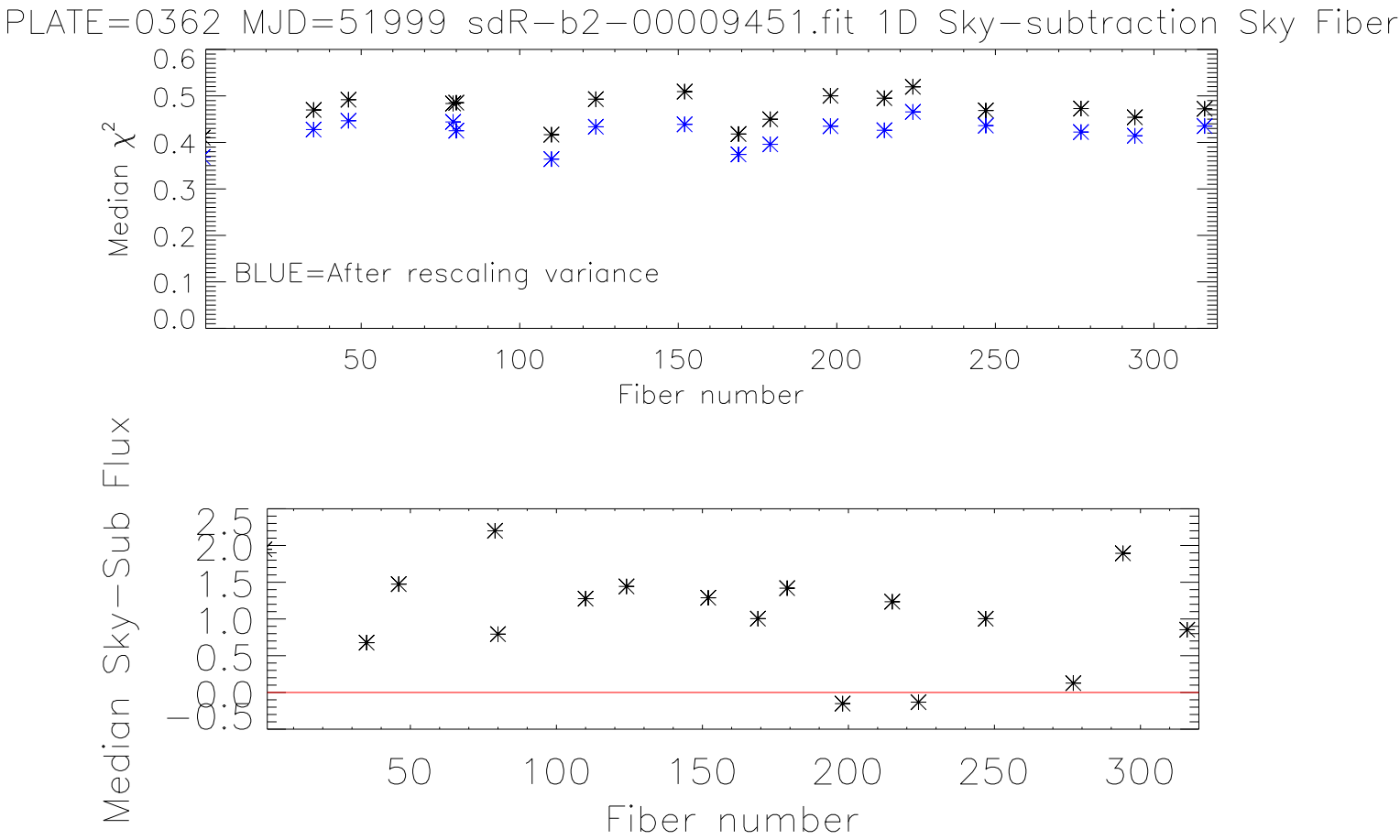

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

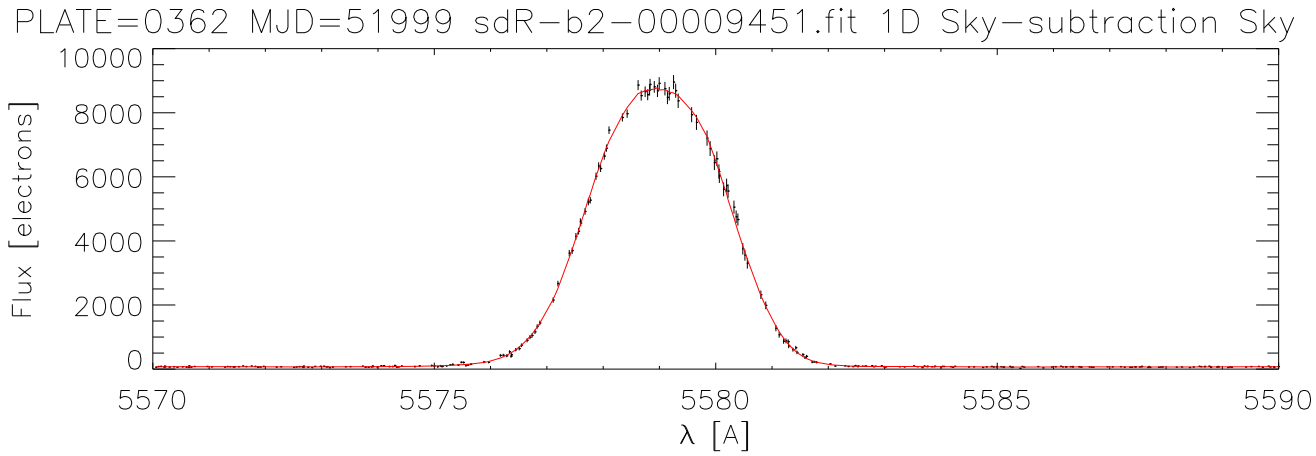

4046.5600
nfib1 17
nfib2 17
stdev 0.126
extra −0.03
4358.3300
nfib1 17
nfib2 17
stdev 0.062
extra −0.16
5460.9400
nfib1 17
nfib2 17
stdev 0.048
extra −0.07
5577.3390
nfib1 17
nfib2 17
stdev 0.012
extra 0.02
5889.9500
nfib1 17
nfib2 17
stdev 0.034
extra 0.06
5895.9240
nfib1 17
nfib2 17
stdev 0.031
extra 0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

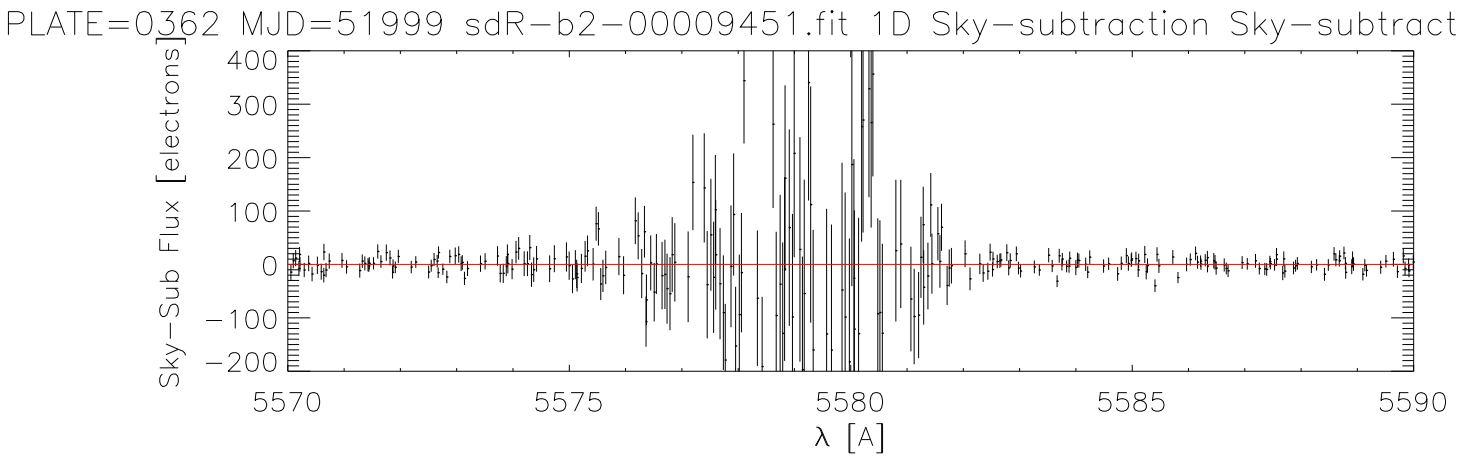

sky shift, pixels
0.05
0.00
−0.05
−0.10
−0.15
−0.20
3500
4000
4500
5000
5500
6000
6500

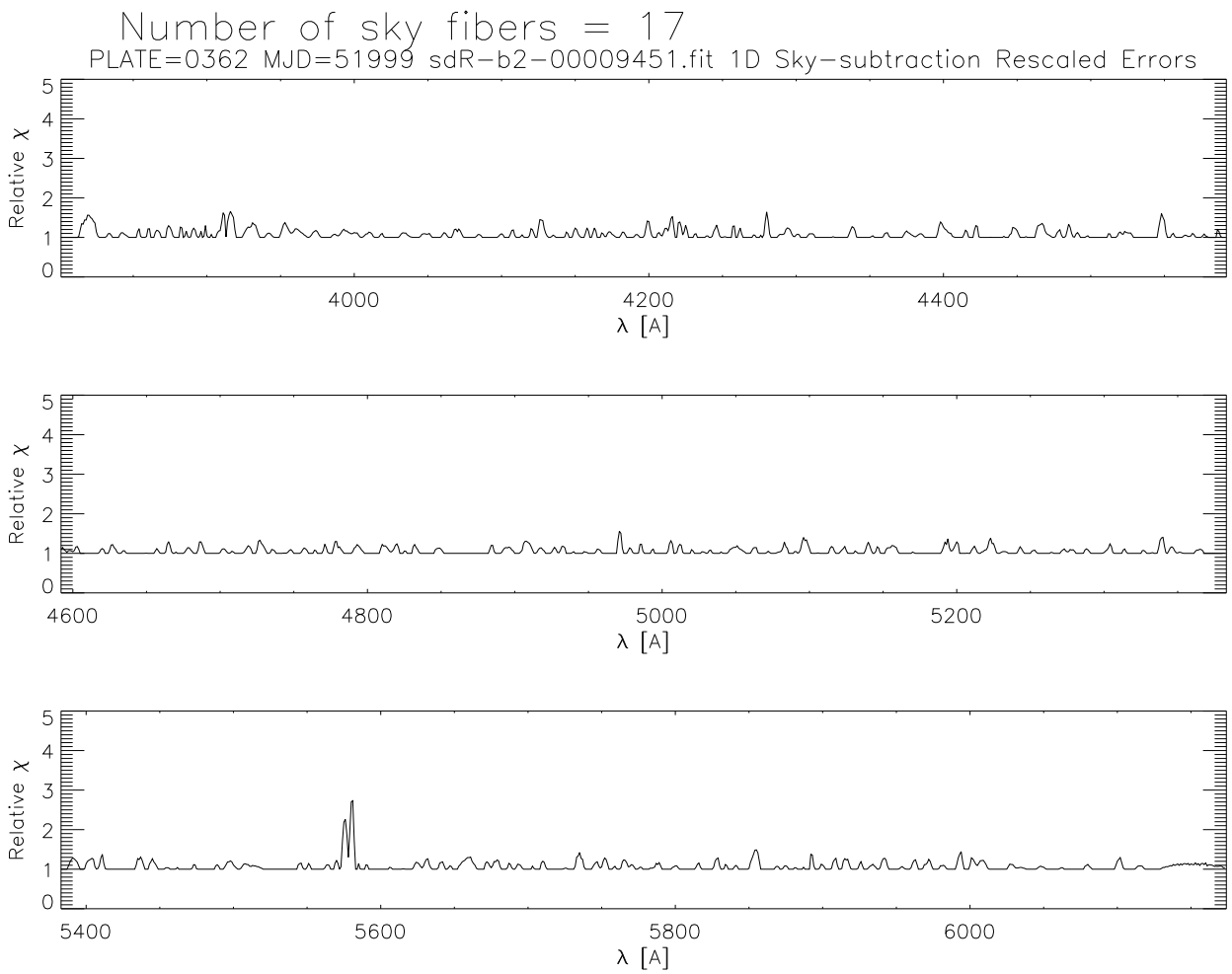

PLATE=0362 MJD=51999 Smooth superflat for sdR-b2-00009451.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

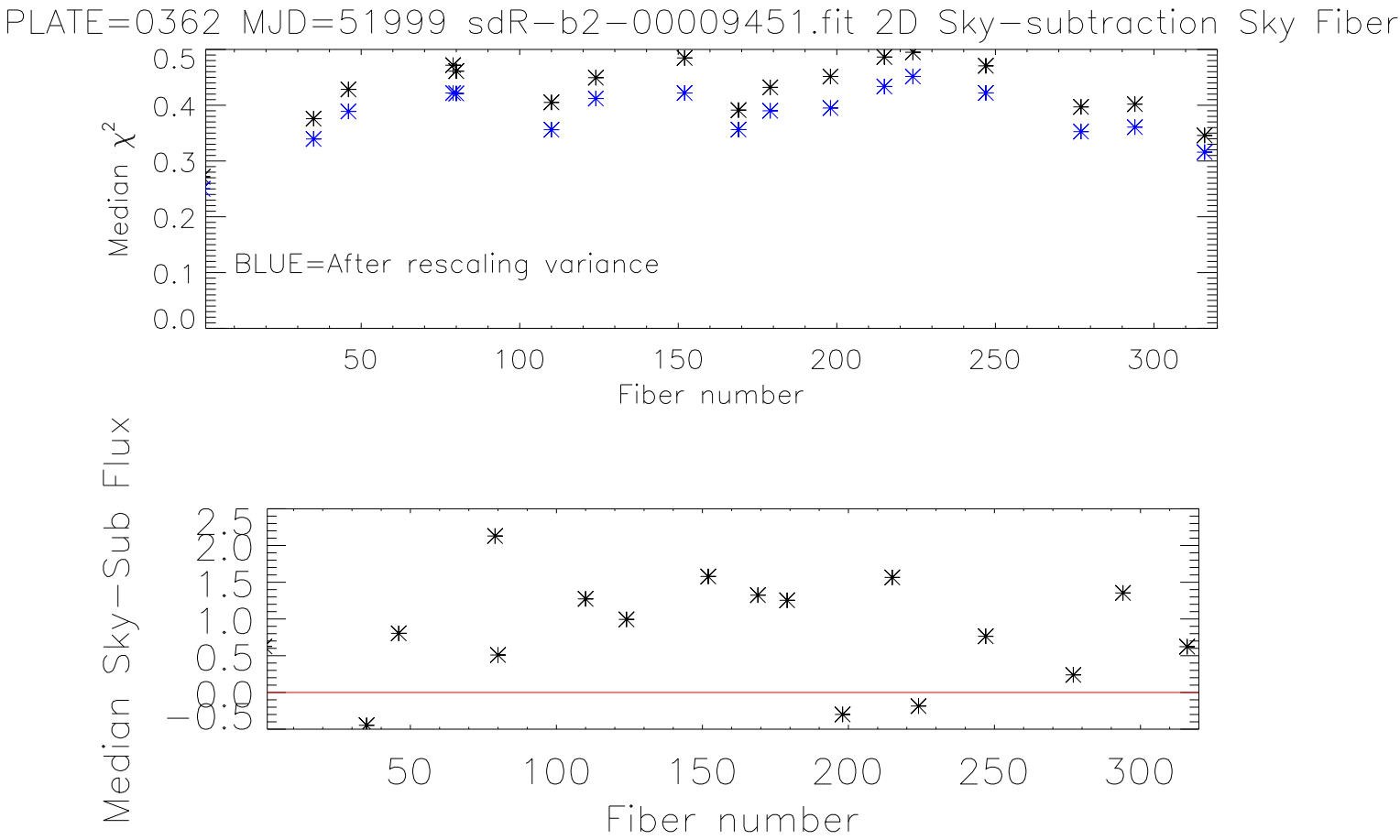
es= −0.0000

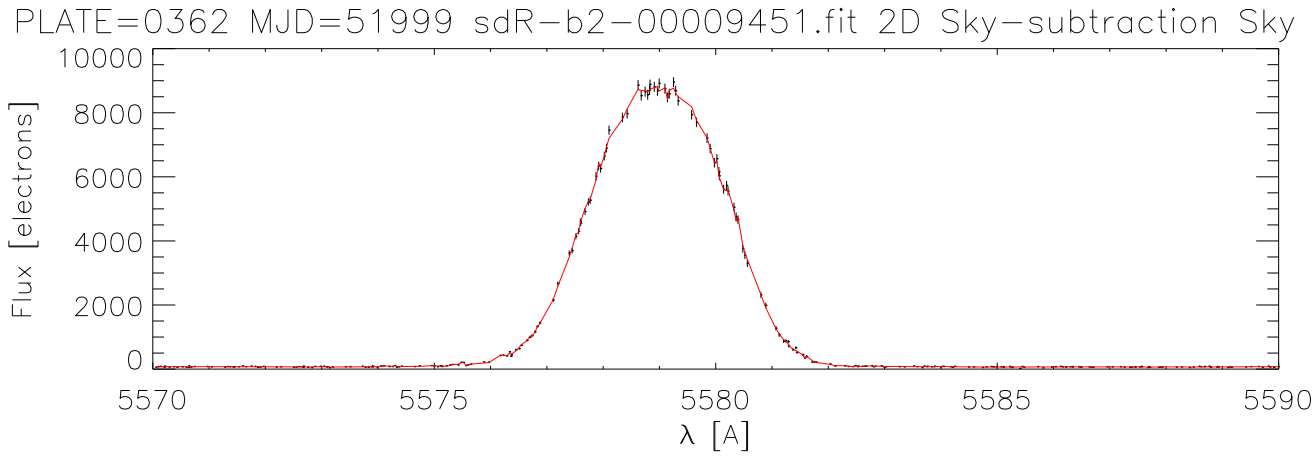

PLATE=0362 MJD=51999 sdR-b2-00009451.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

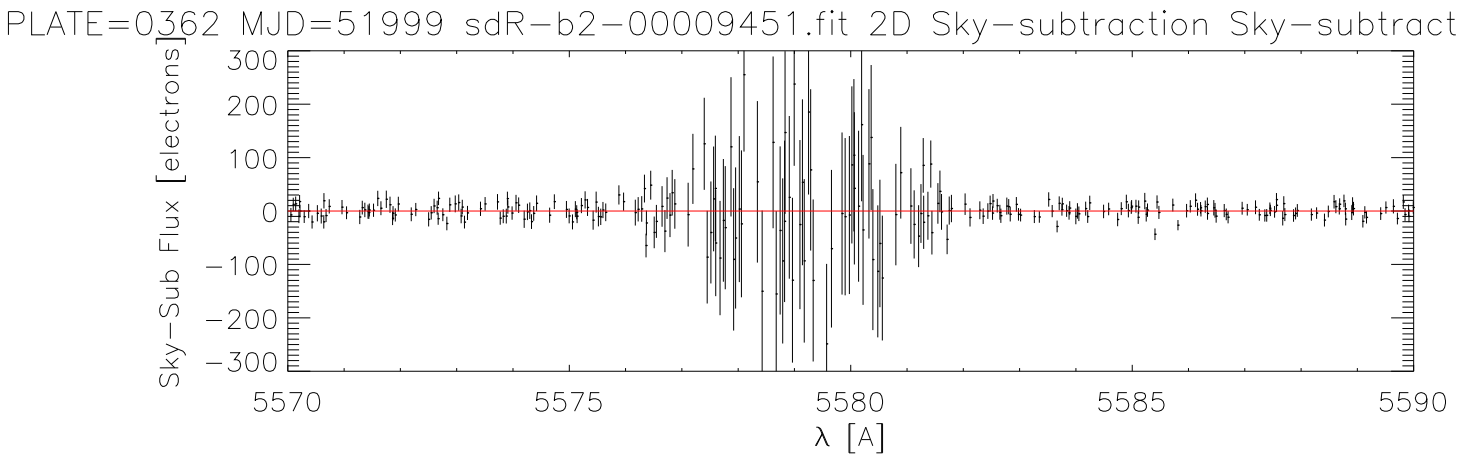

PLATE=0362 MJD=51999 sdR-b2-00009451.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

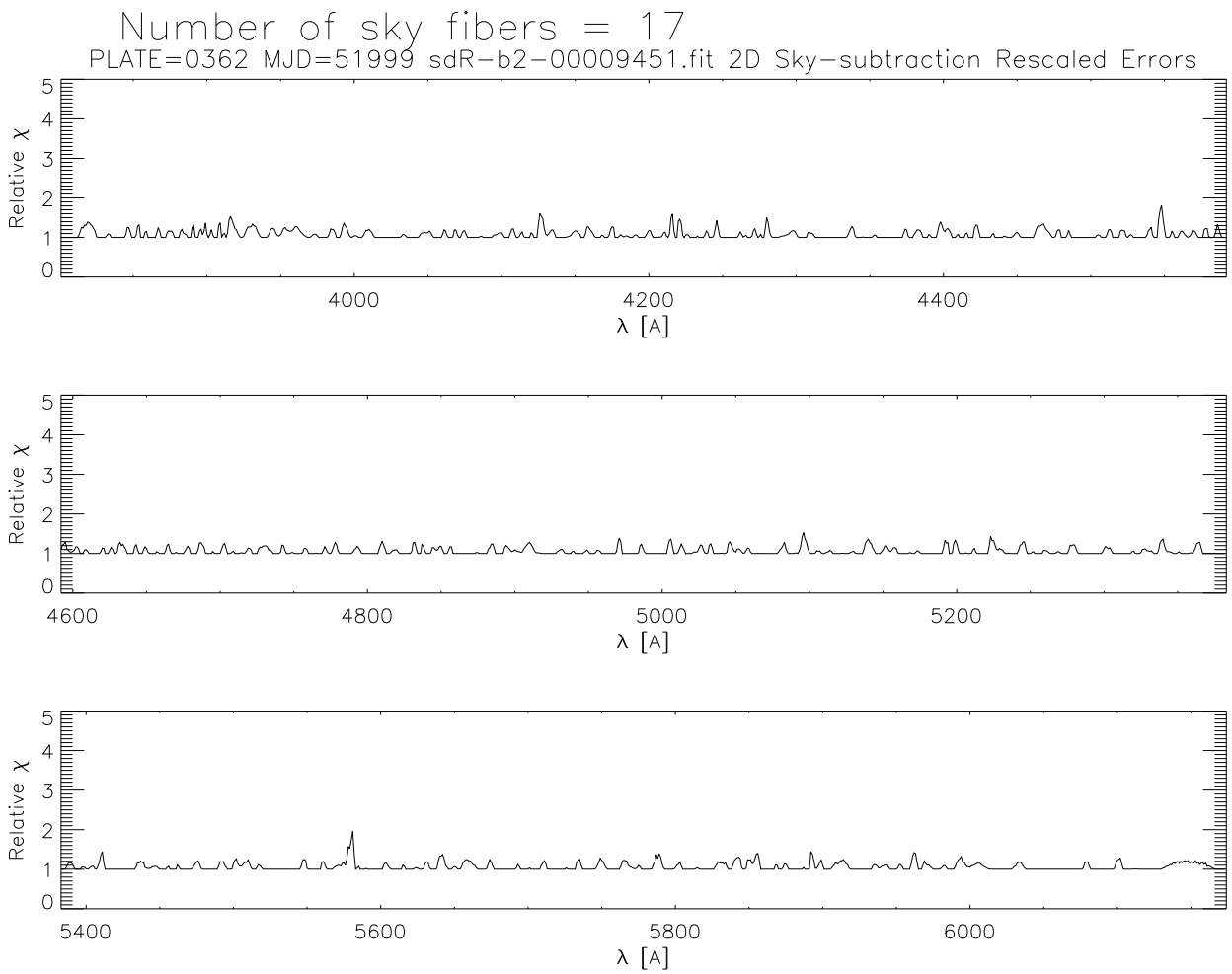

PLATE=0362 MJD=51999 sdR-b2-00009451.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

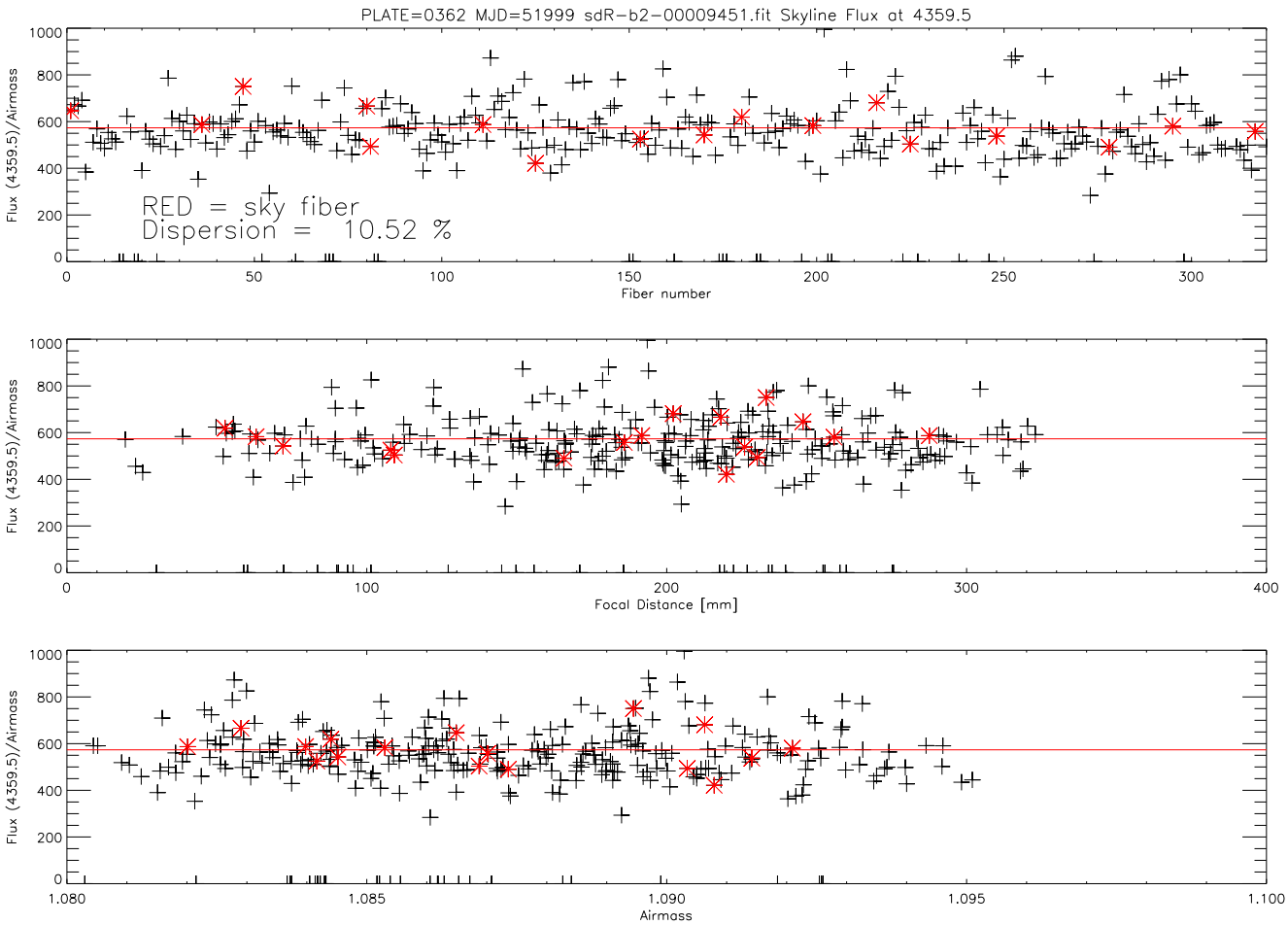

Number of sky fibers = 17
PLATE=0362 MJD=51999 sdR-b2-00009451.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

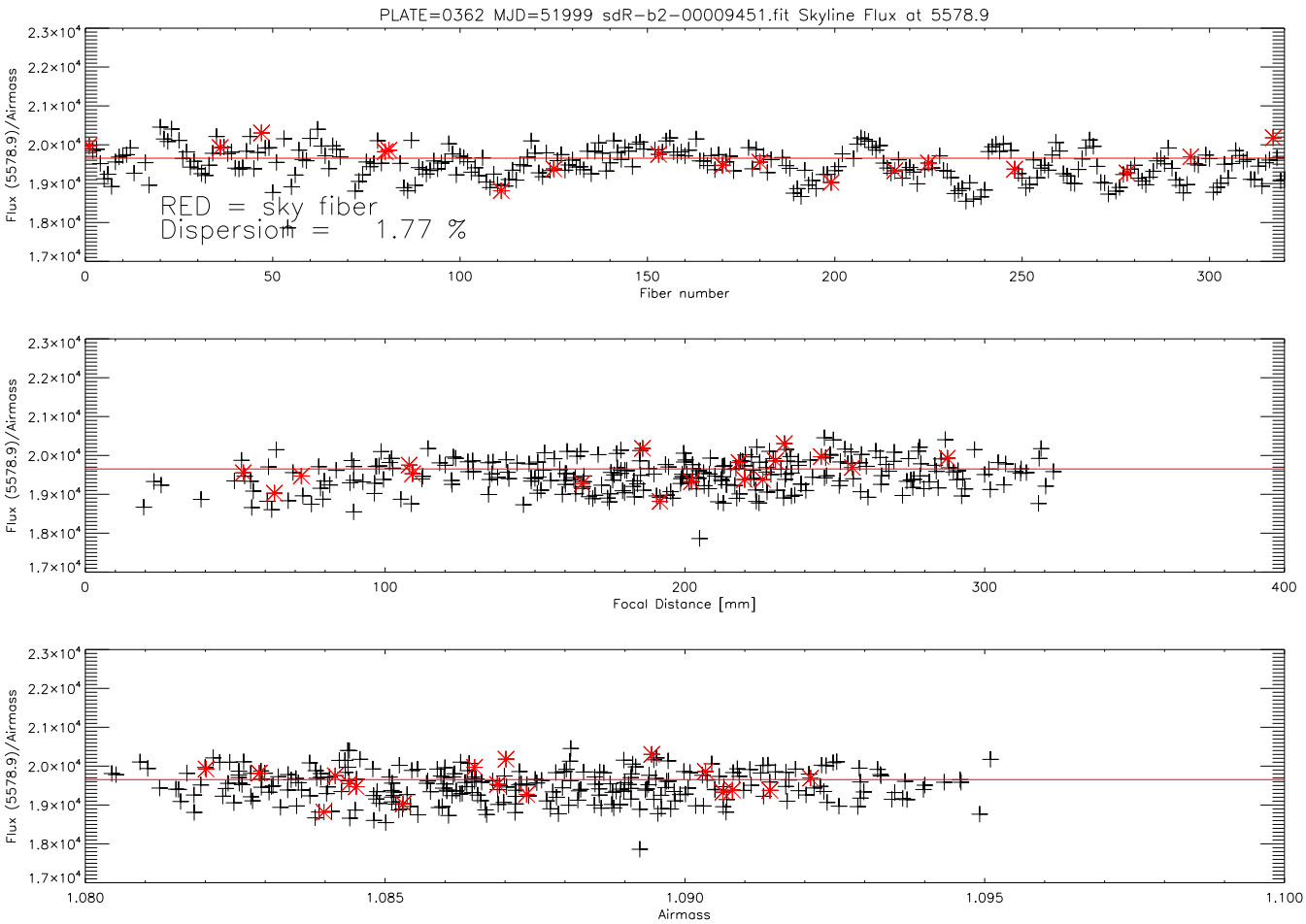

PLATE=0362 MJD=51999 sdR-b2-00009451.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

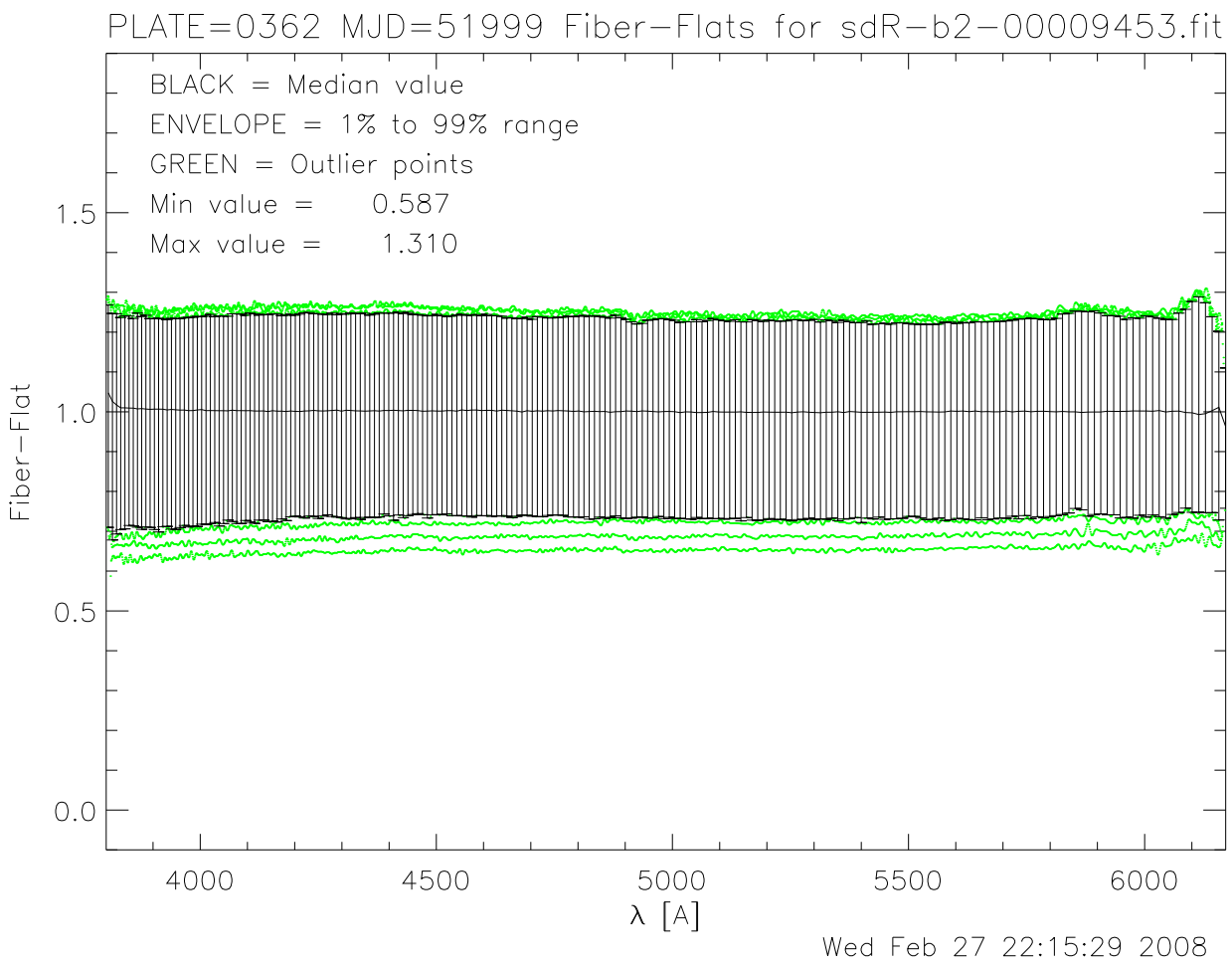

PLATE=0362 MJD=51999 sdR-b2-00009451.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

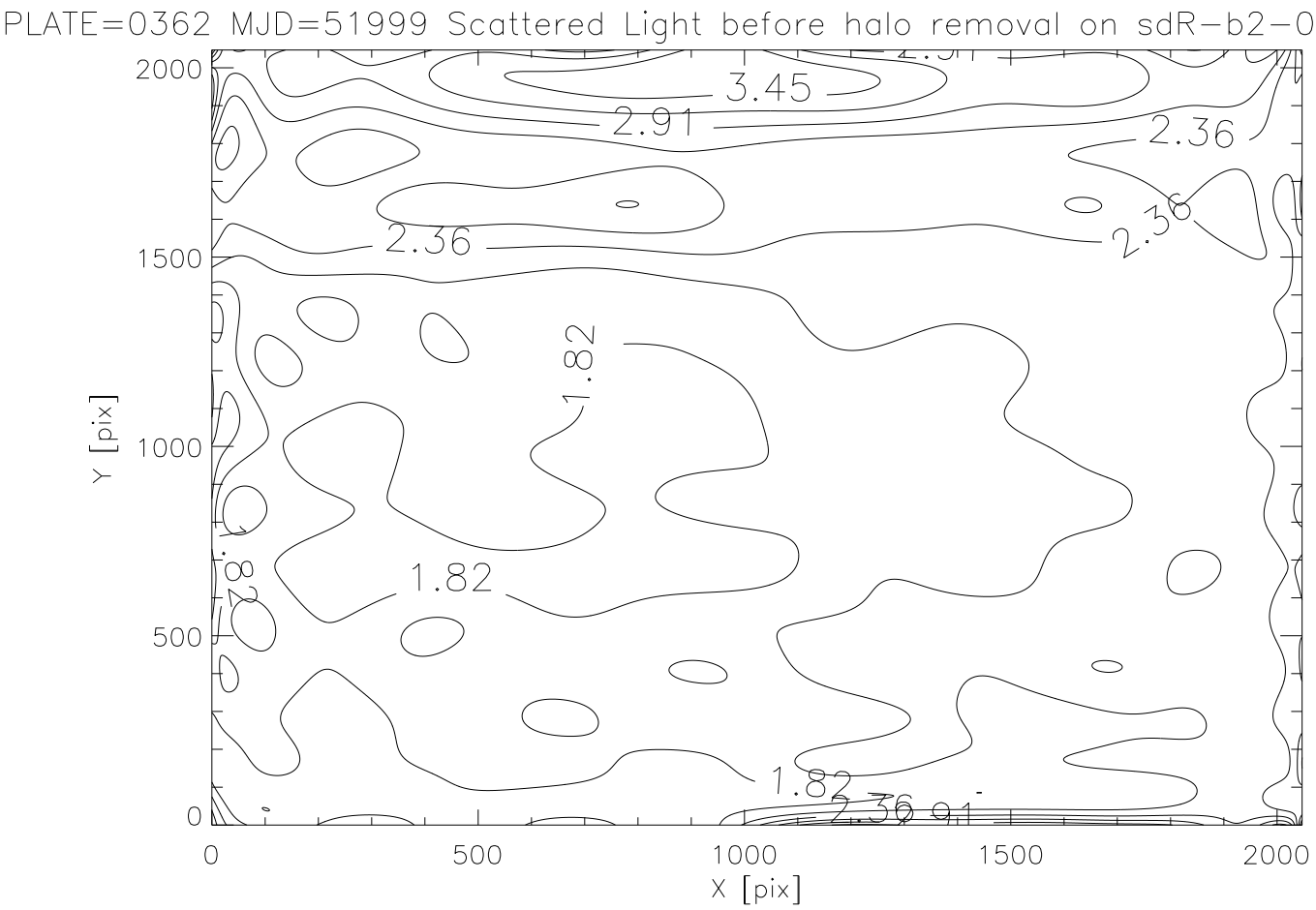

PLATE=0362 MJD=51999 sdR-b2-00009451.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
-300
5570
5575
5580
5585
5590
λ [A]

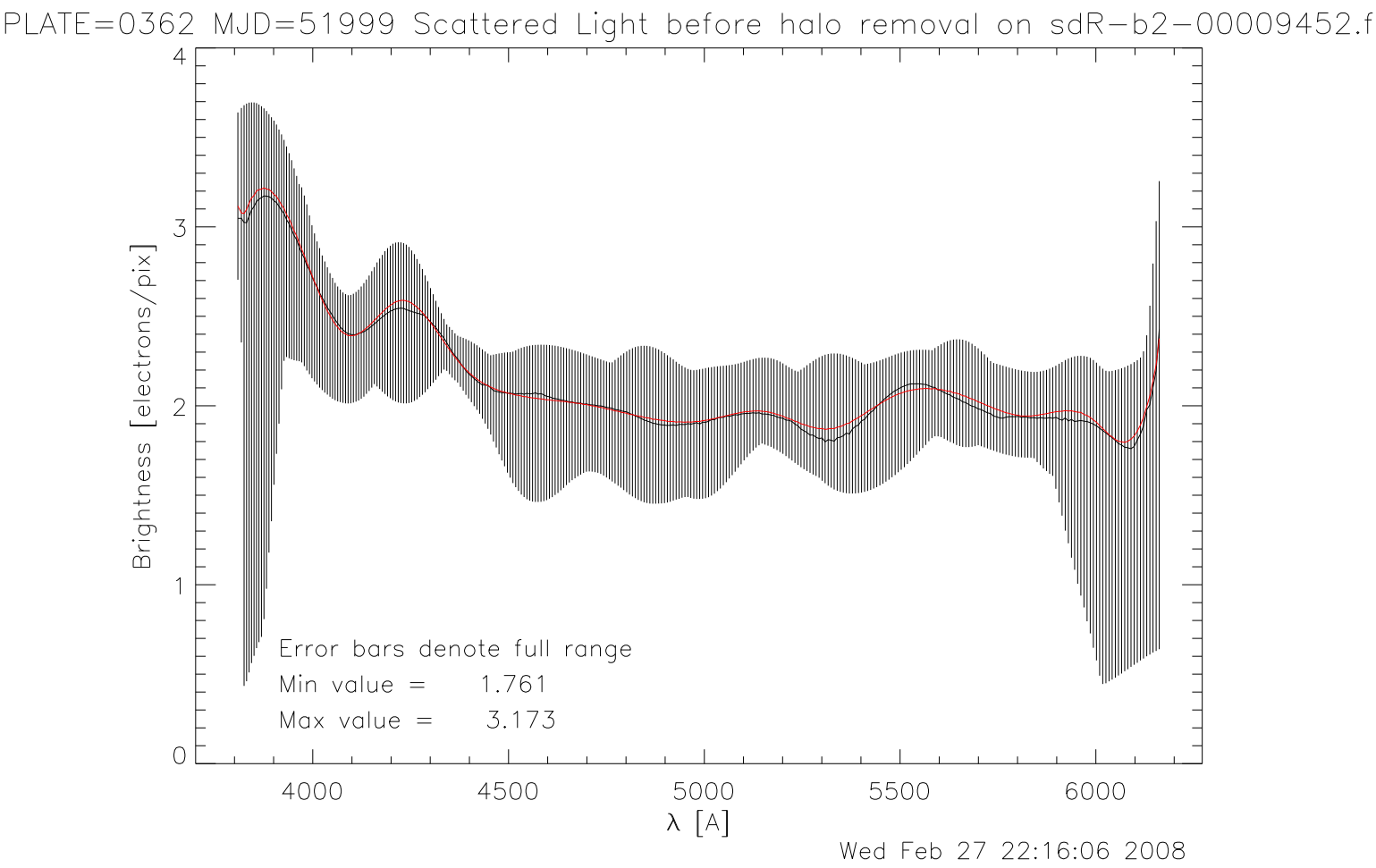

Number of sky fibers = 17
PLATE=0362 MJD=51999 sdR-b2-00009451.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

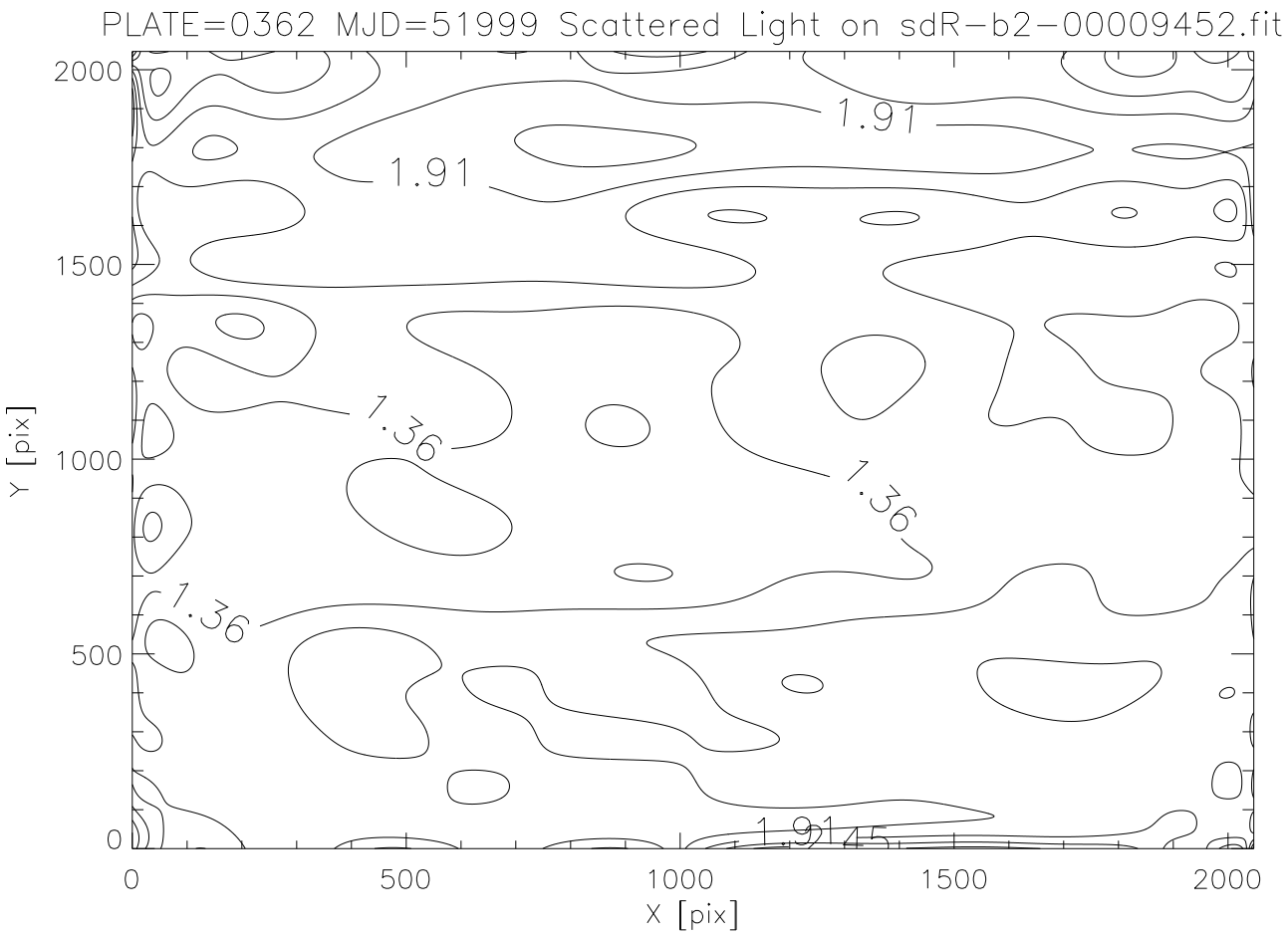

PLATE=0362 MJD=51999 sdR-b2-00009451.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.52 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

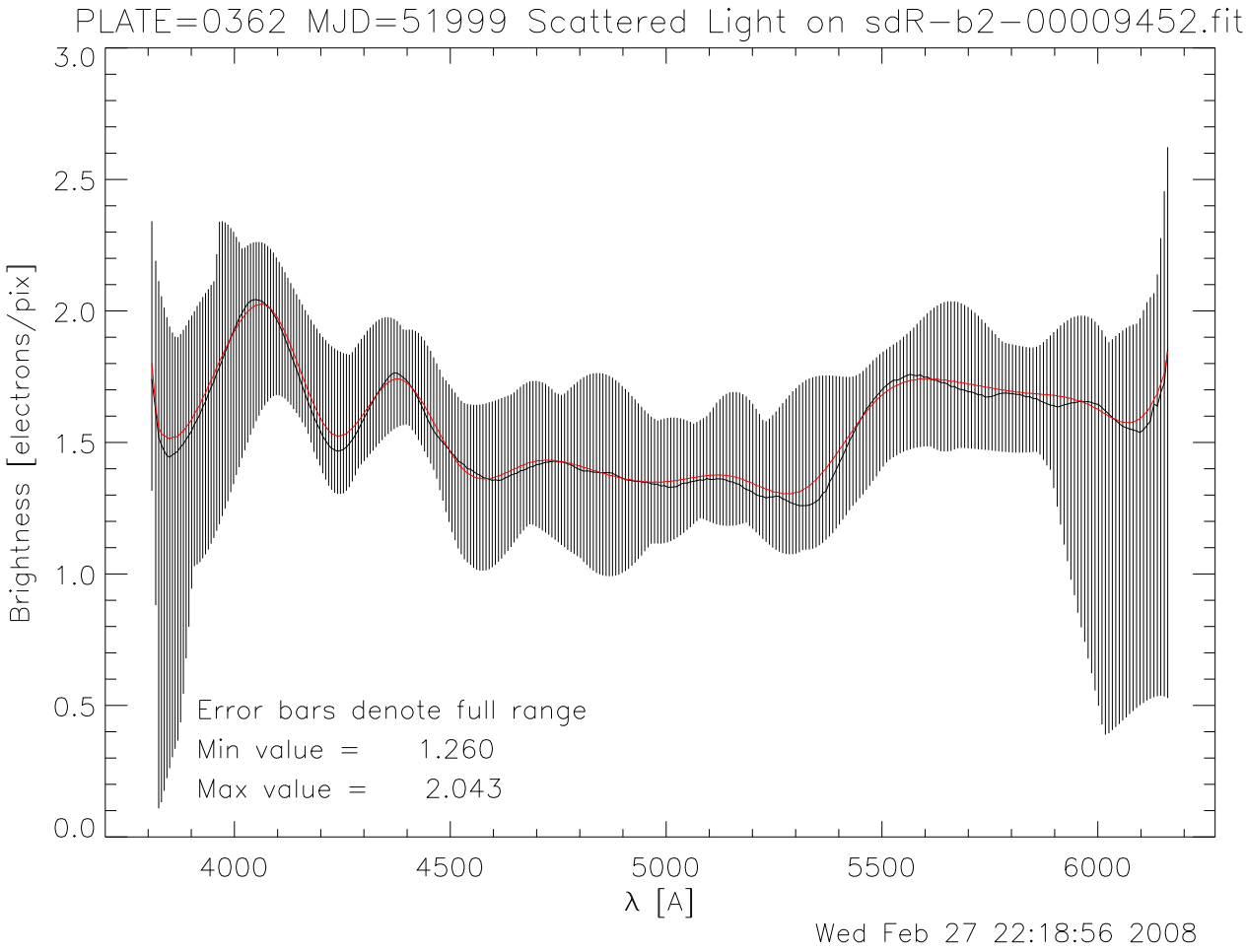

PLATE=0362 MJD=51999 sdR-b2-00009451.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.77 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

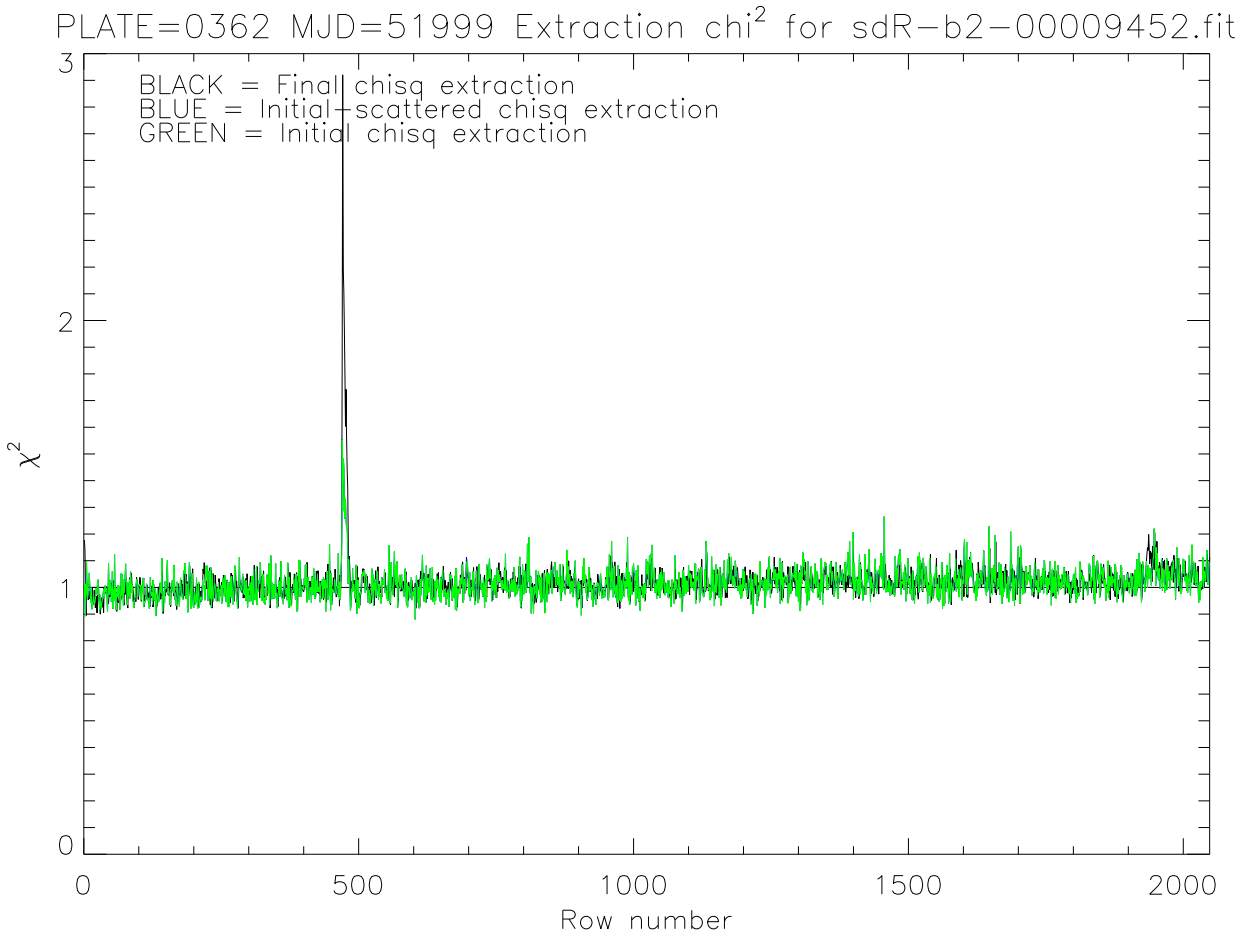

PLATE=0362 MJD=51999 Fiber-Flats for sdR-b2-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.587
Max value = 1.310
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 22:15:29 2008

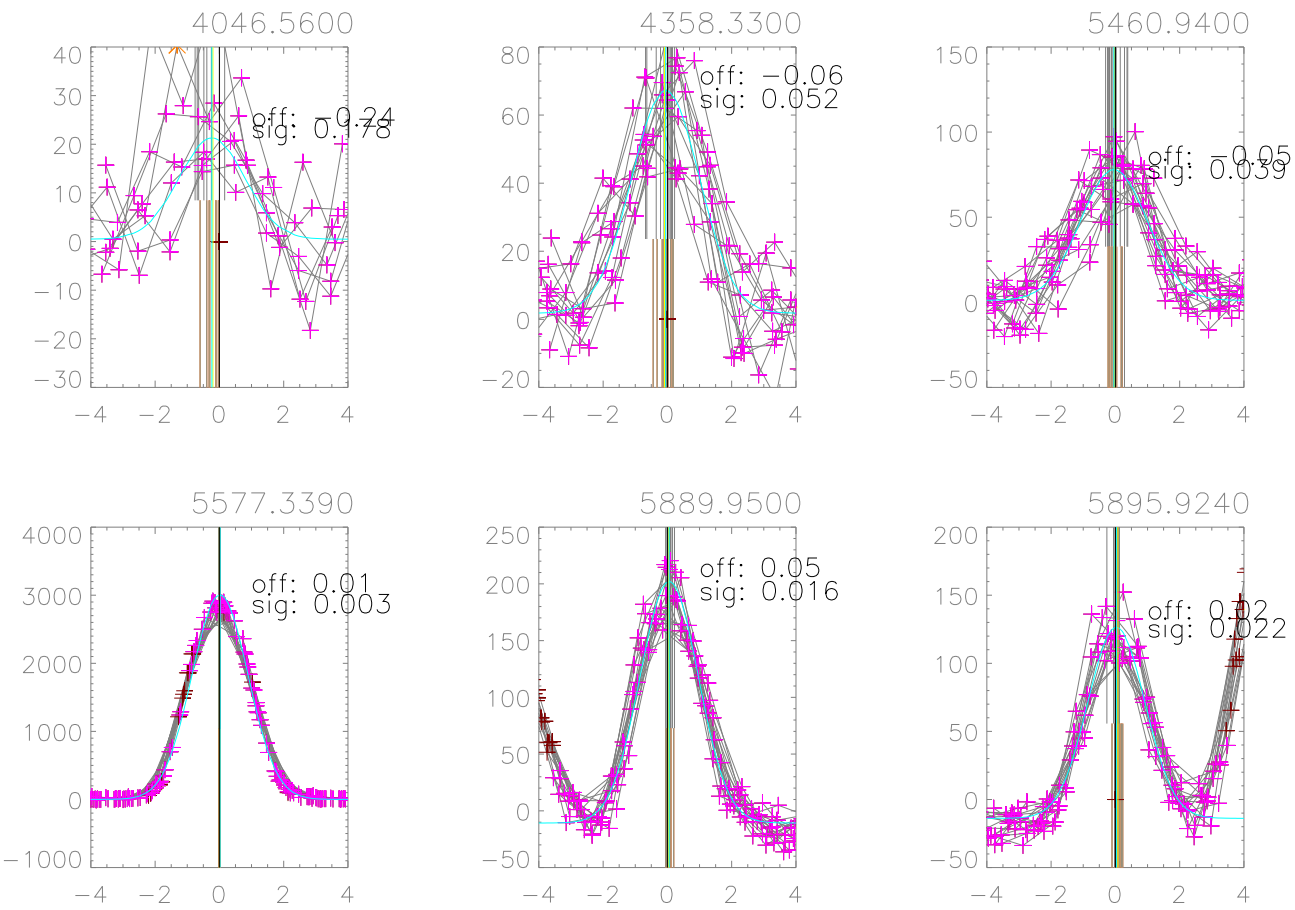

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR−b2−00009452.f
3.45
2.91
2.36
2.36
2.36
1.82
1.82
1.82
1.82
2.36
2.91
Y [pix]
X [pix]
0
500
1000
1500
2000

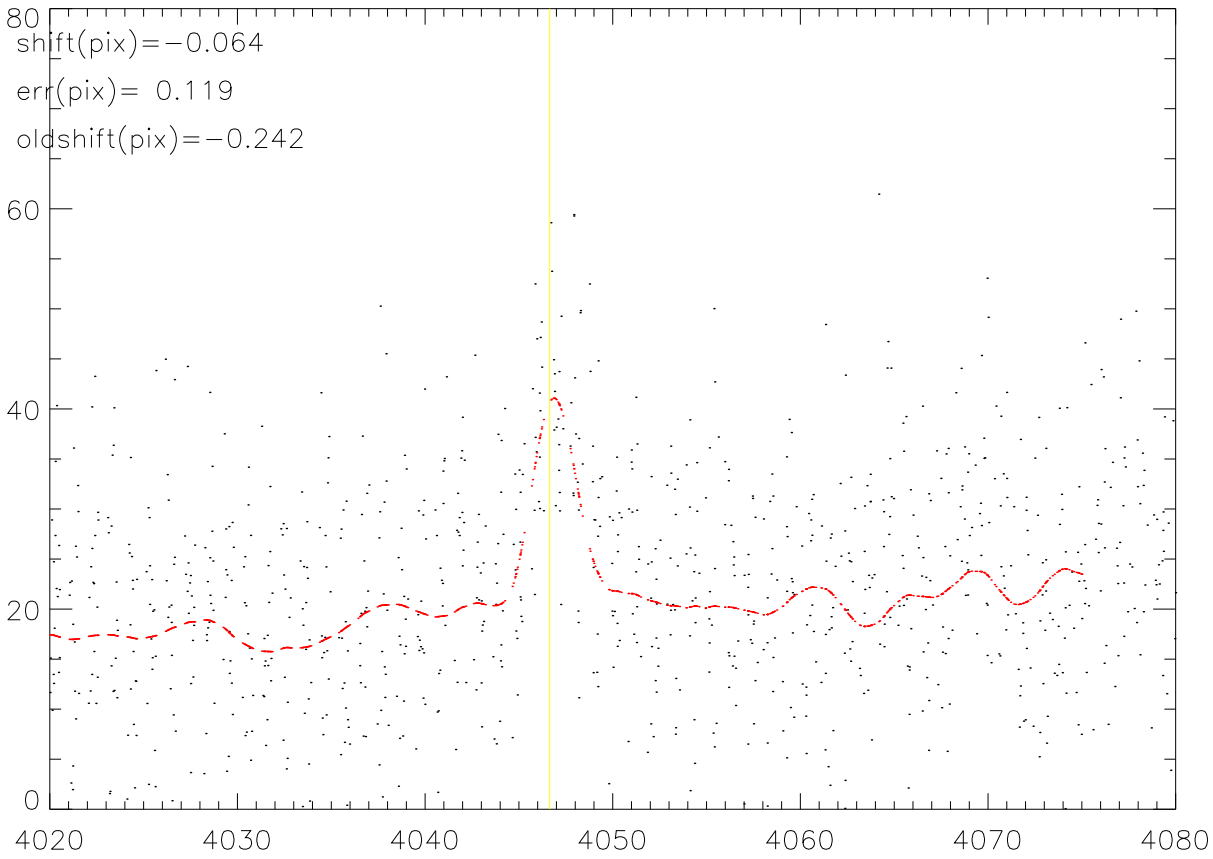

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-b2-00009452.f
Brightness [electrons/pix]
0
1
2
3
4
Error bars denote full range
Min value = 1.761
Max value = 3.173
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 22:16:06 2008

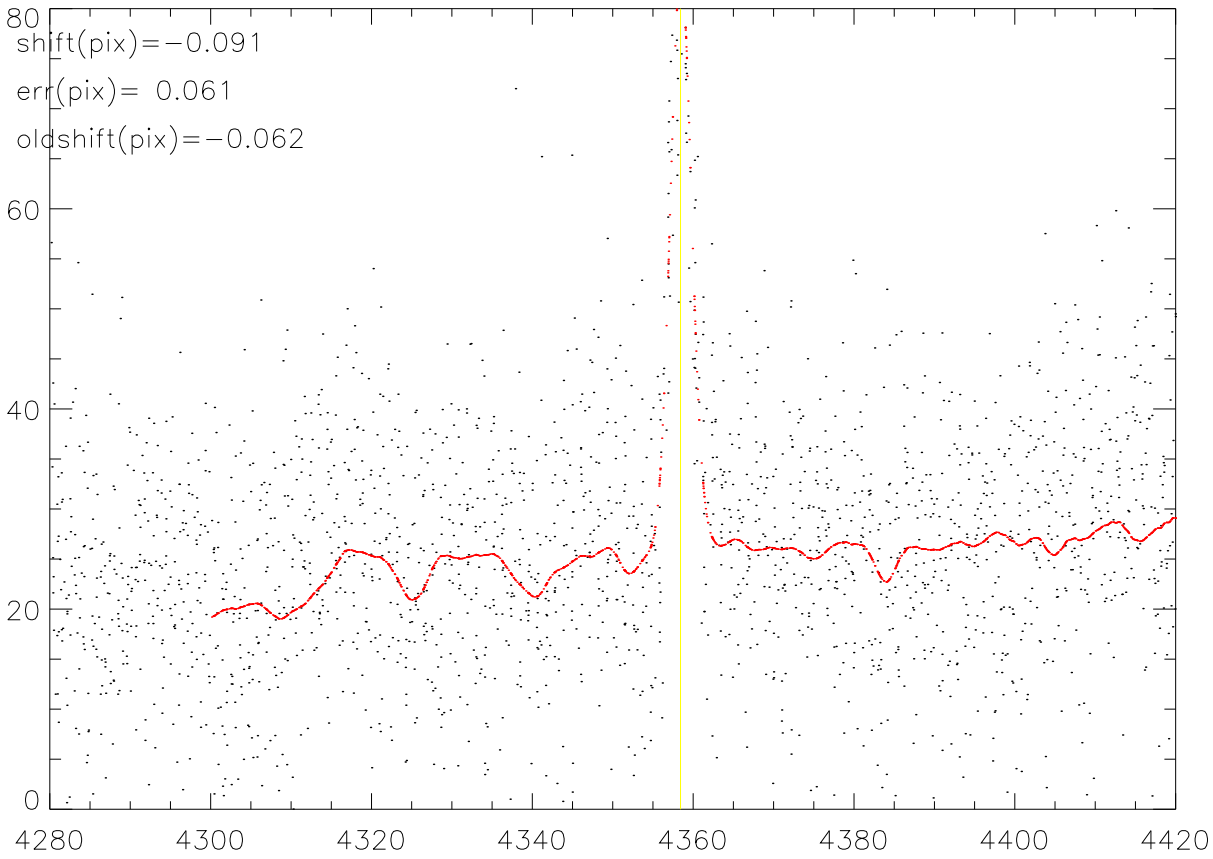

PLATE=0362 MJD=51999 Scattered Light on sdR-b2-00009452.fit
1.91
1.91
1.36
1.36
1.36
1.91
1.45
Y [pix]
X [pix]
0
500
1000
1500
2000

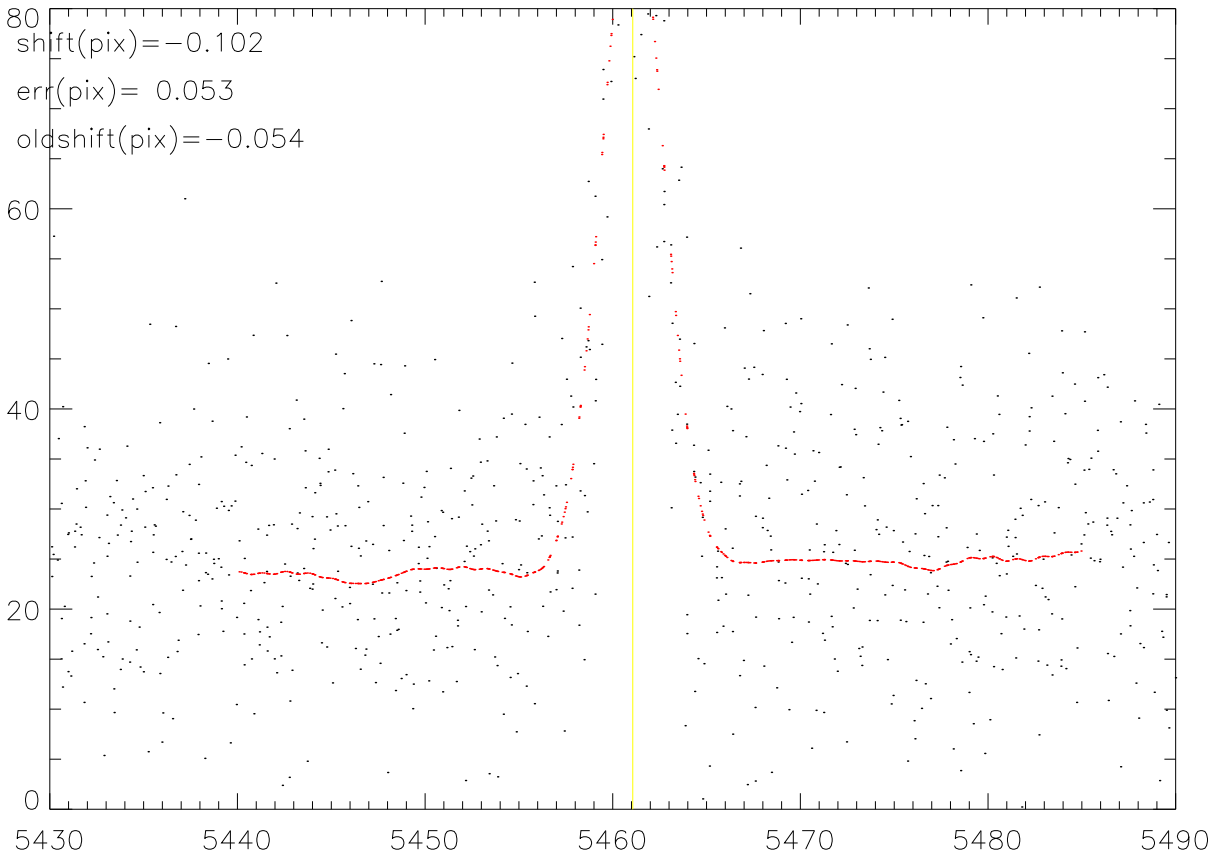

PLATE=0362 MJD=51999 Scattered Light on sdR-b2-00009452.fit
Brightness [electrons/pix]
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Error bars denote full range
Min value = 1.260
Max value = 2.043
4000
4500
5000
5500
6000
λ [A]
Wed Feb 27 22:18:56 2008

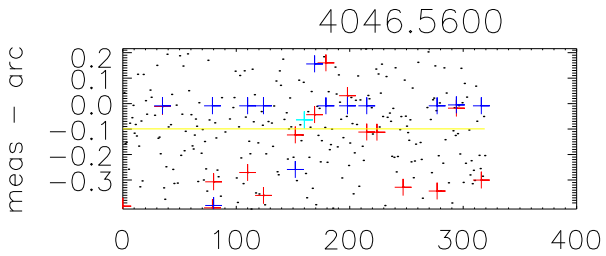

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-b2-00009452.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
0
500
1000
1500
2000
Row number

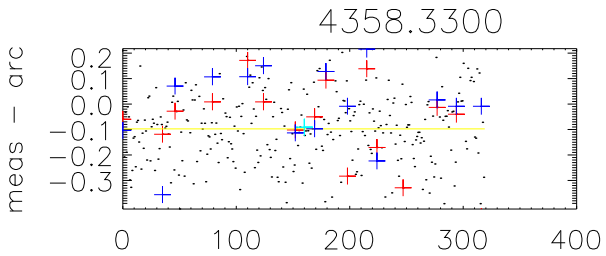

4046.5600
off: −0.24
sig: 0.778
4358.3300
off: −0.06
sig: 0.052
5460.9400
off: −0.05
sig: 0.039
5577.3390
off: 0.01
sig: 0.003
5889.9500
off: 0.05
sig: 0.016
5895.9240
off: 0.02
sig: 0.022

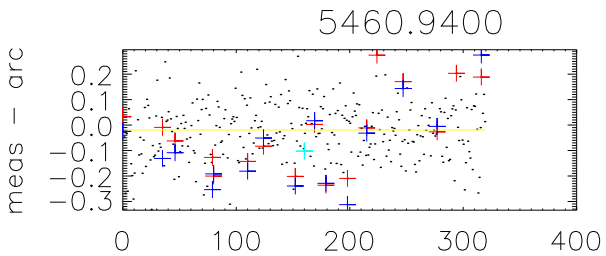

shift(pix)=−0.064
err(pix)= 0.119
oldshift(pix)=−0.242
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

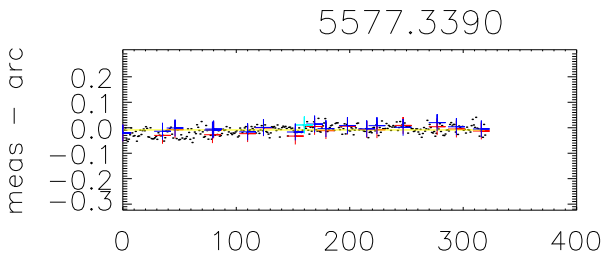

shift(pix)=−0.091
err(pix)= 0.061
oldshift(pix)=−0.062
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

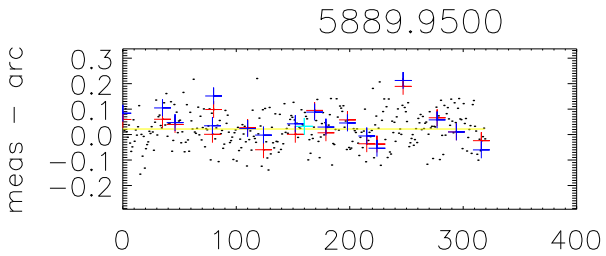

shift(pix)=−0.102
err(pix)= 0.053
oldshift(pix)=−0.054
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

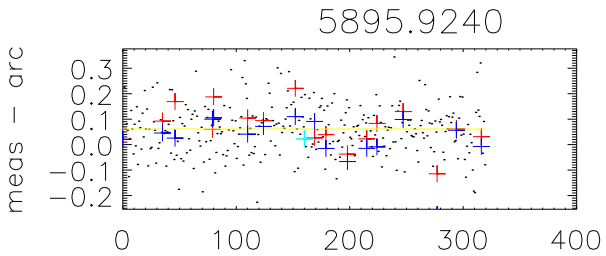

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

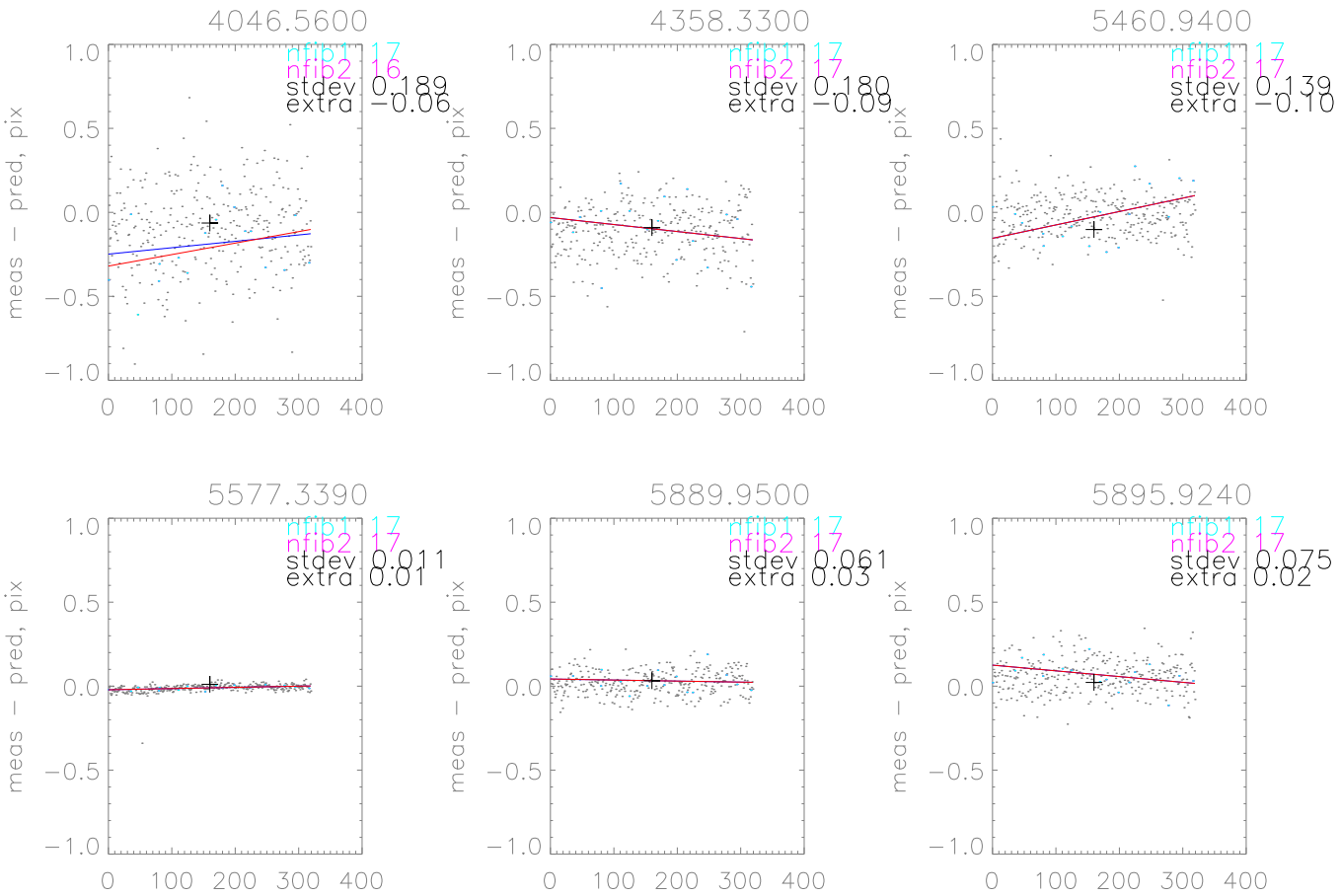

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

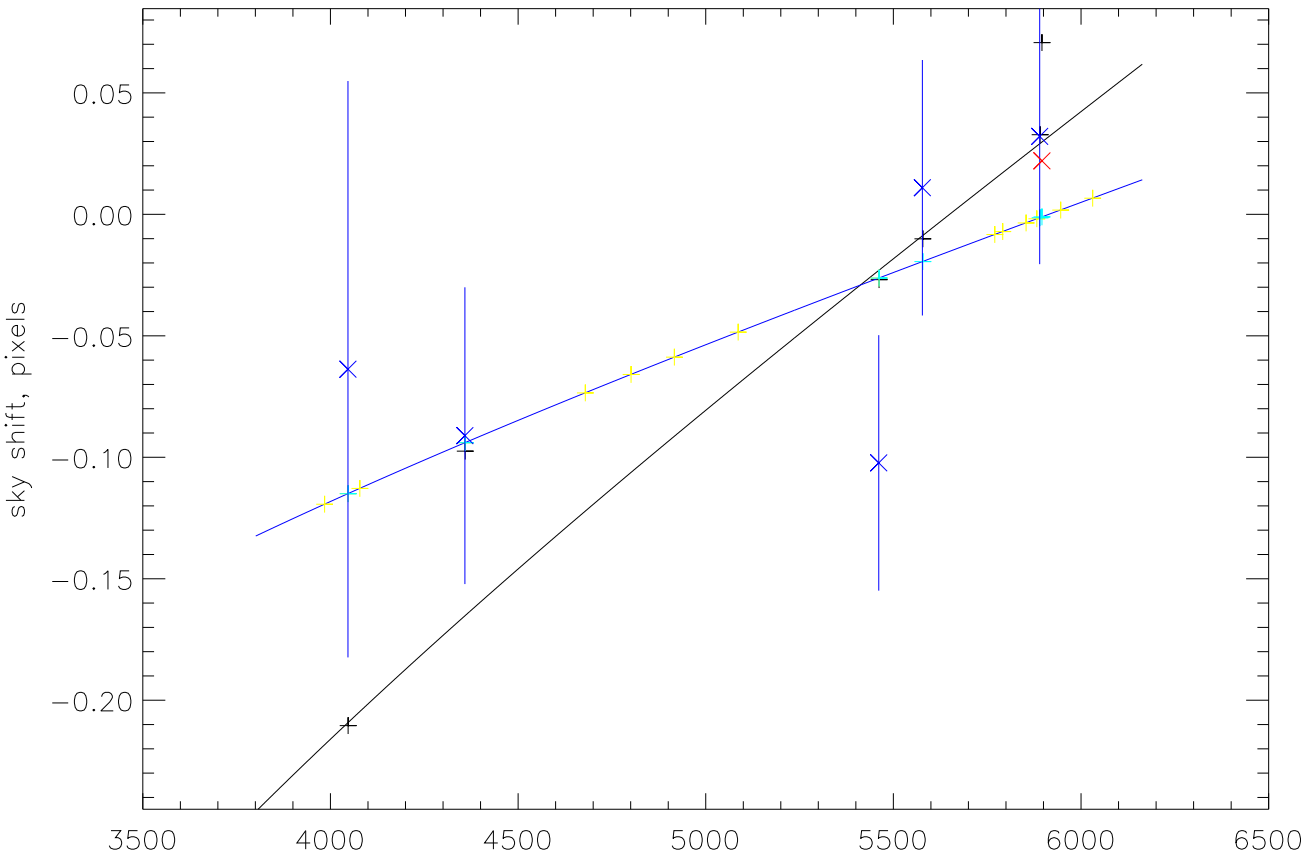

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

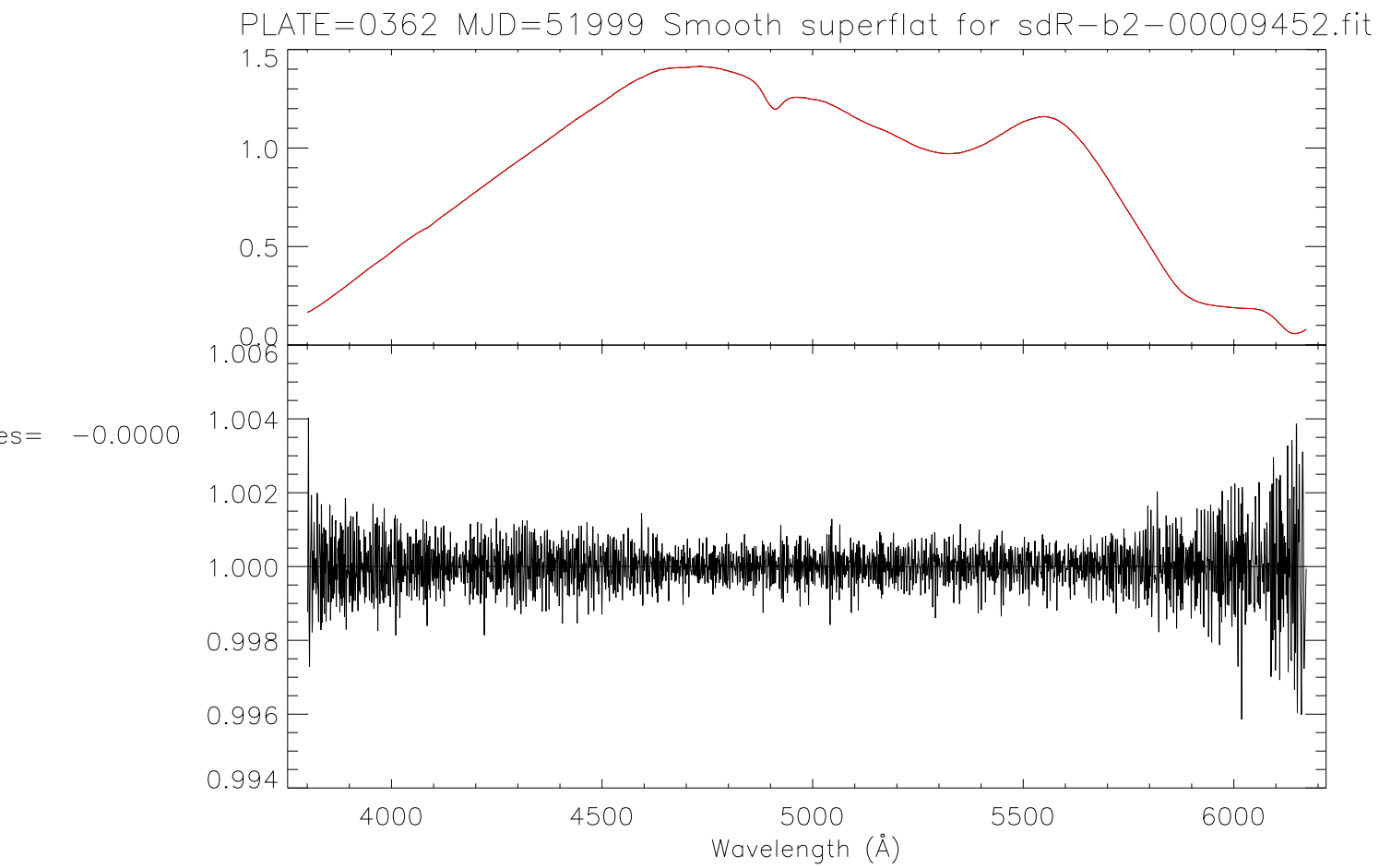

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

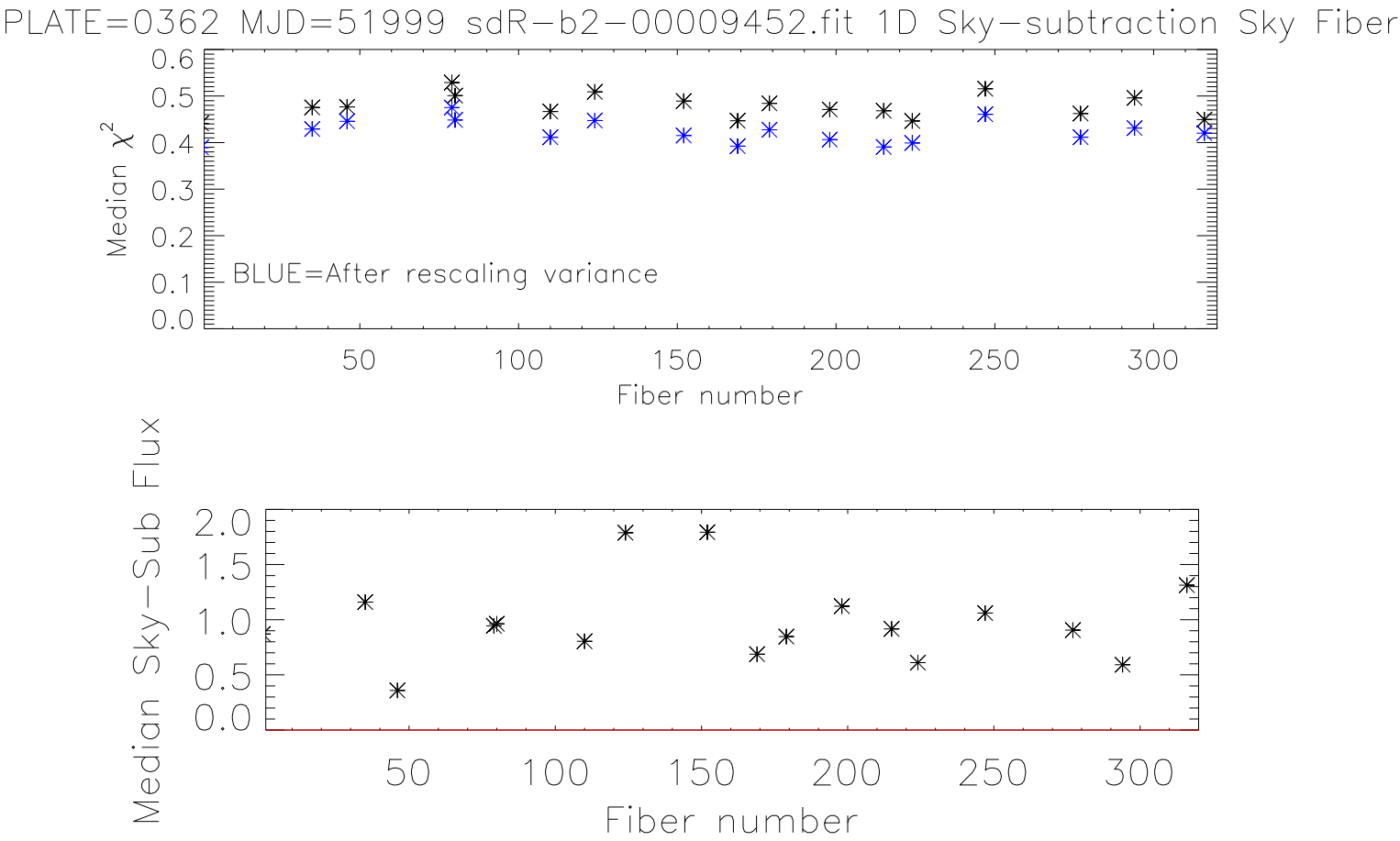

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

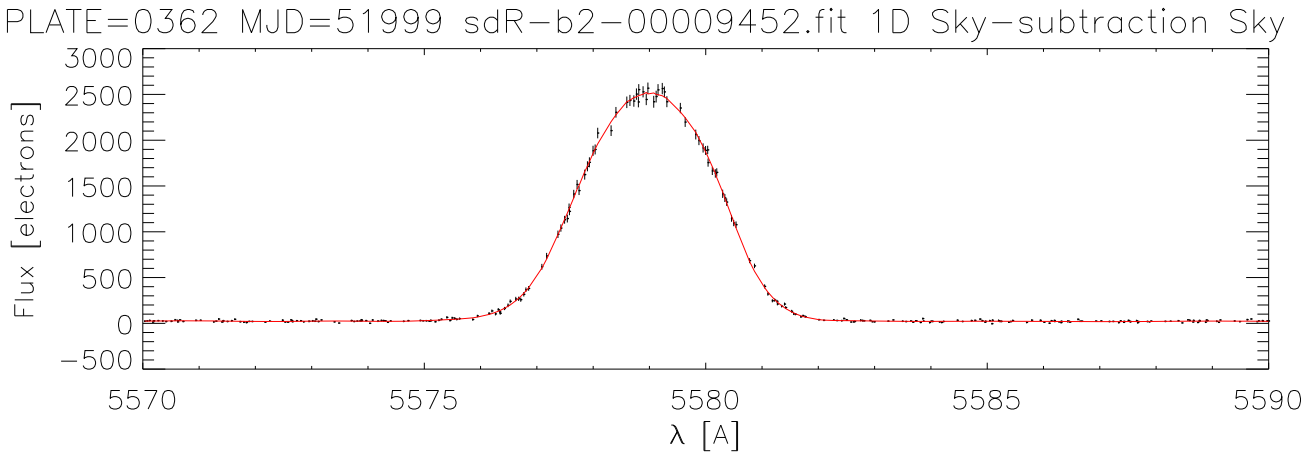

4046.5600
nfib1 17
nfib2 16
stdev 0.189
extra −0.06
4358.3300
nfib1 17
nfib2 17
stdev 0.180
extra −0.09
5460.9400
nfib1 17
nfib2 17
stdev 0.139
extra −0.10
5577.3390
nfib1 17
nfib2 17
stdev 0.011
extra 0.01
5889.9500
nfib1 17
nfib2 17
stdev 0.061
extra 0.03
5895.9240
nfib1 17
nfib2 17
stdev 0.075
extra 0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

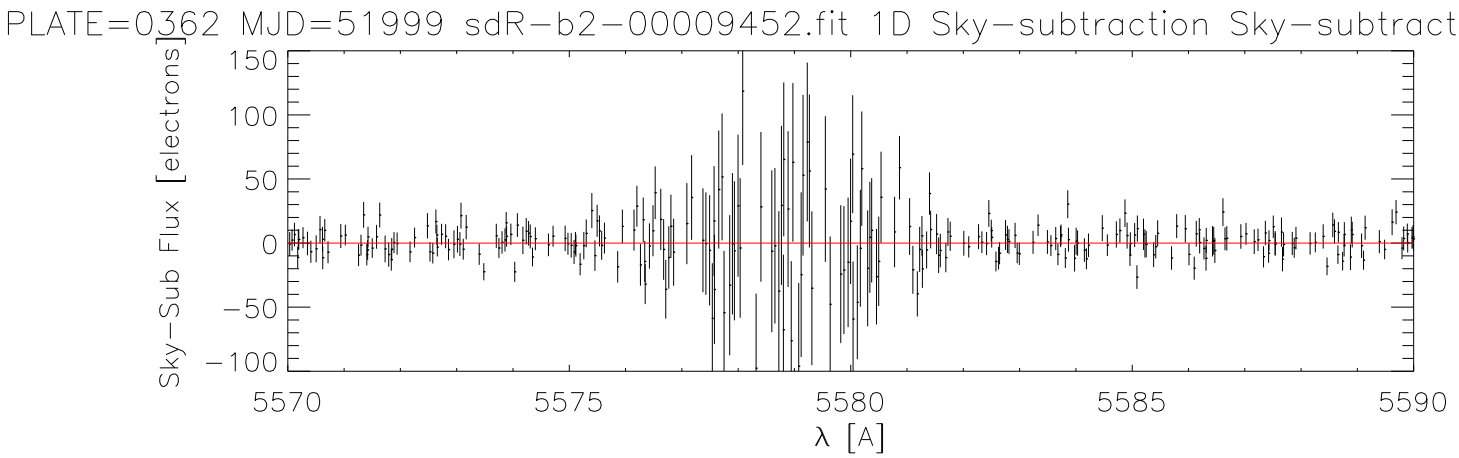

sky shift, pixels
0.05
0.00
−0.05
−0.10
−0.15
−0.20
3500
4000
4500
5000
5500
6000
6500

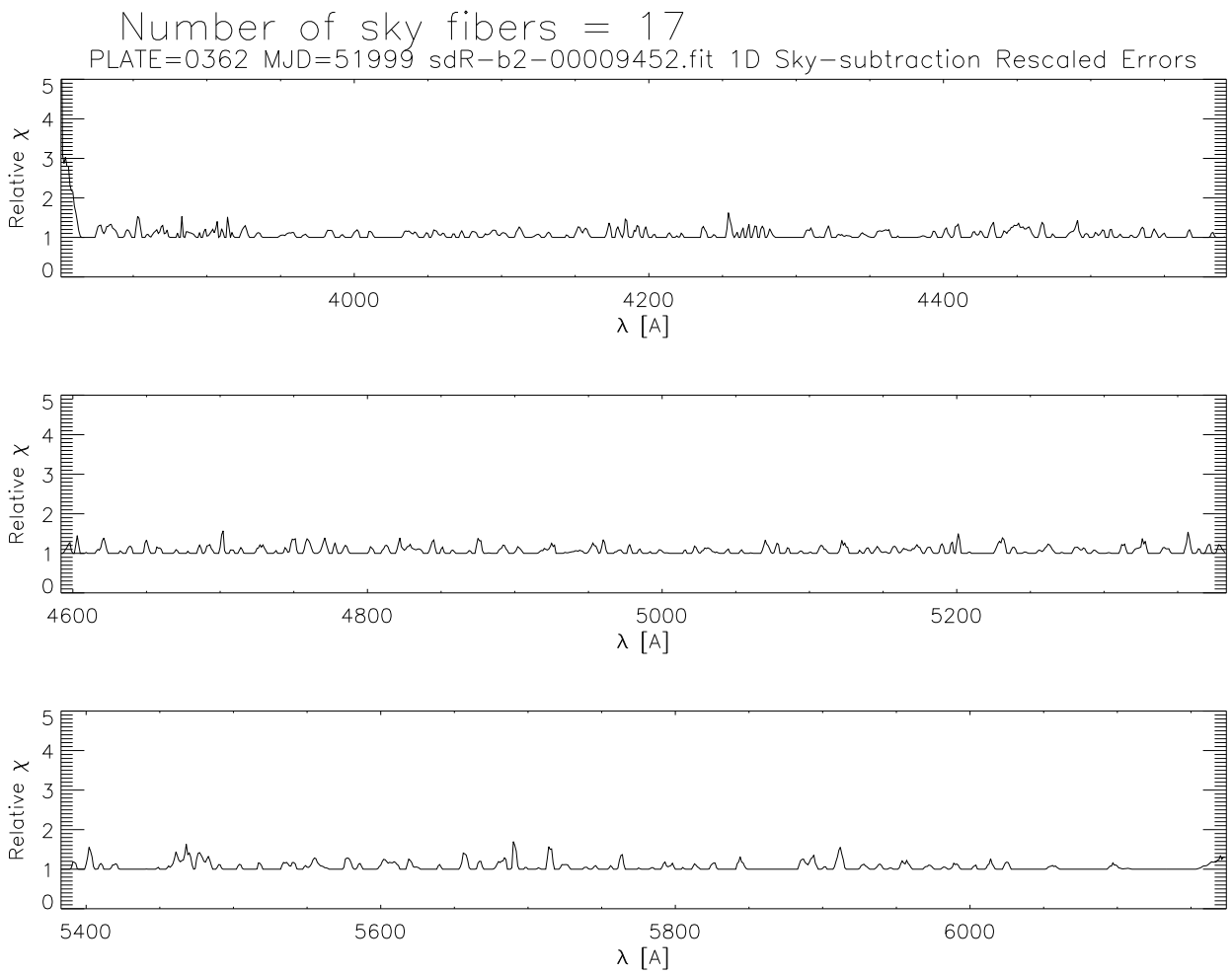

PLATE=0362 MJD=51999 Smooth superflat for sdR-b2-00009452.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
4000
4500
5000
5500
6000
Wavelength (Å)

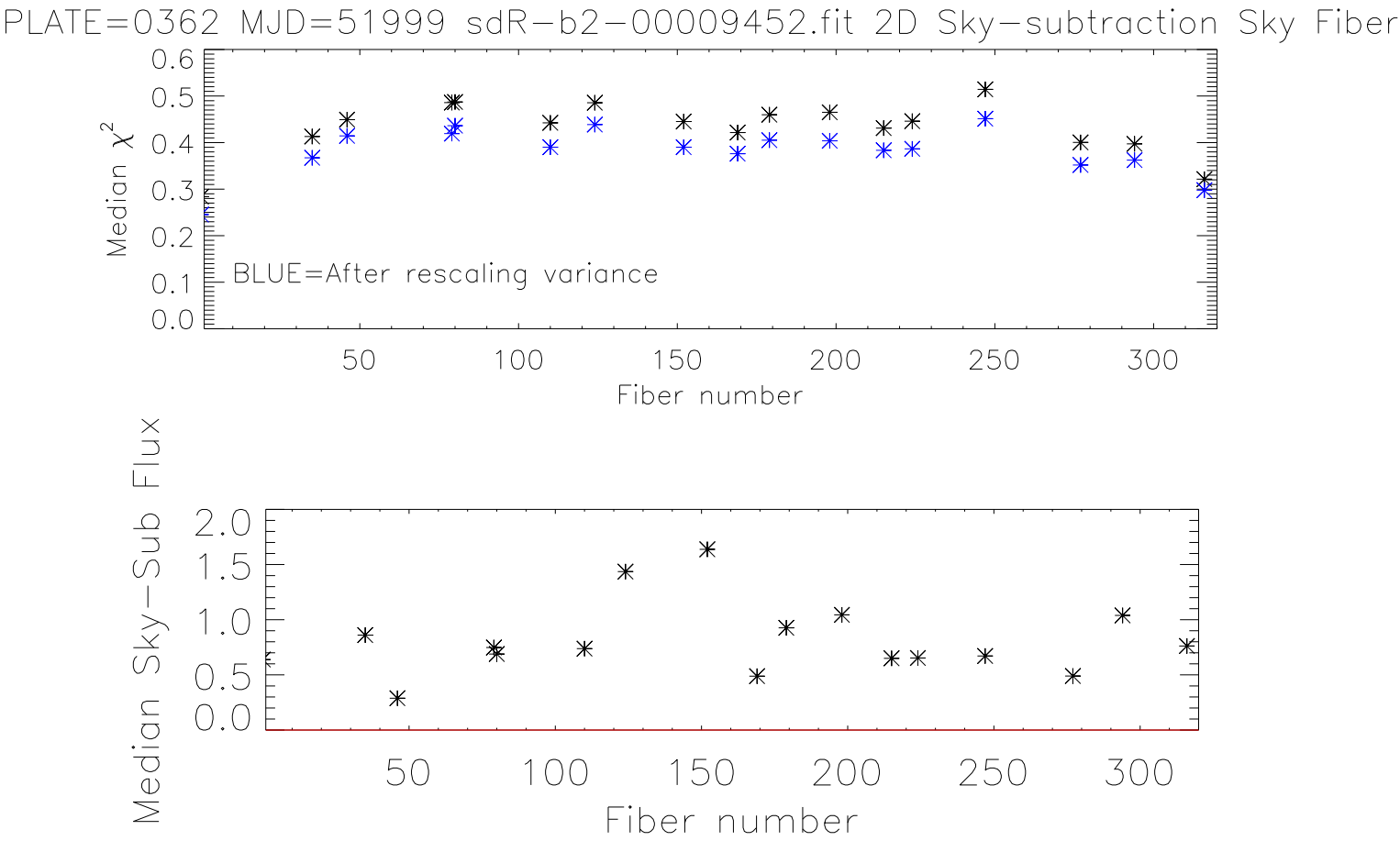
es= −0.0000

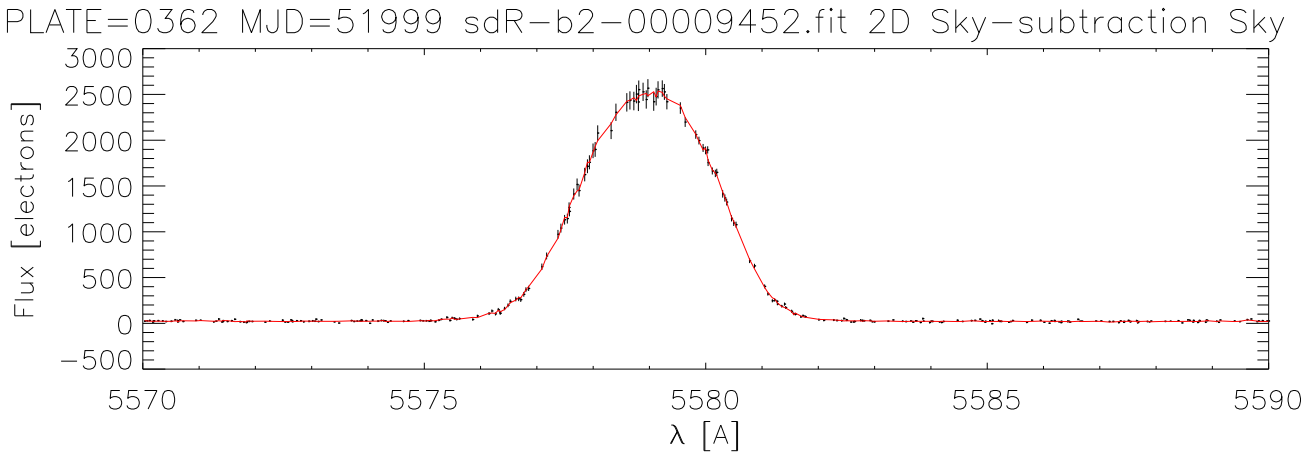

PLATE=0362 MJD=51999 sdR-b2-00009452.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

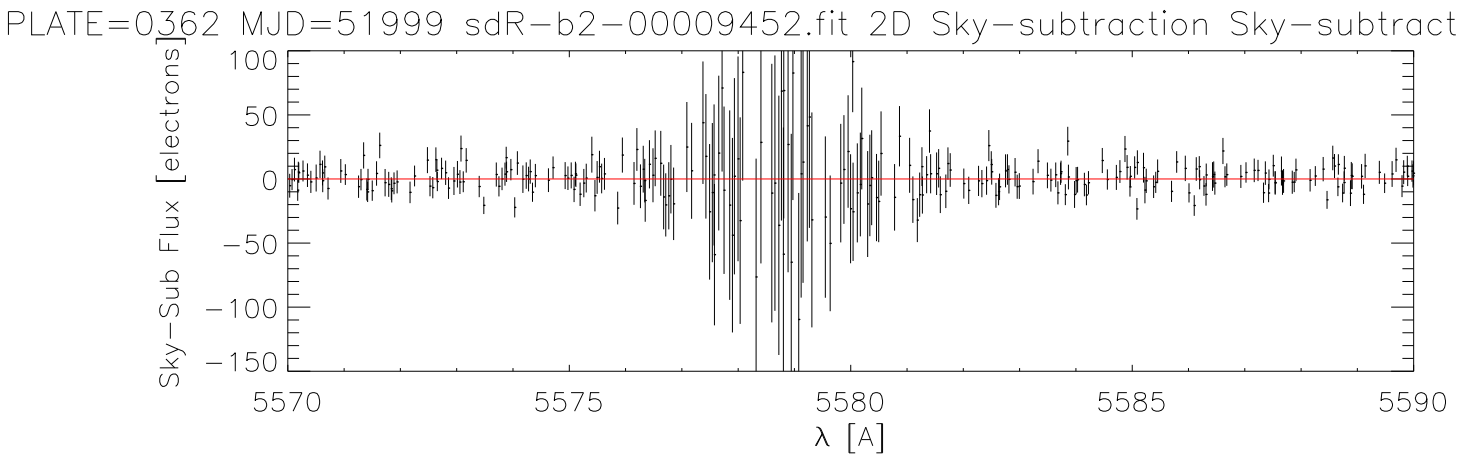

PLATE=0362 MJD=51999 sdR-b2-00009452.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
−500
5570
5575
5580
5585
5590
λ [A]

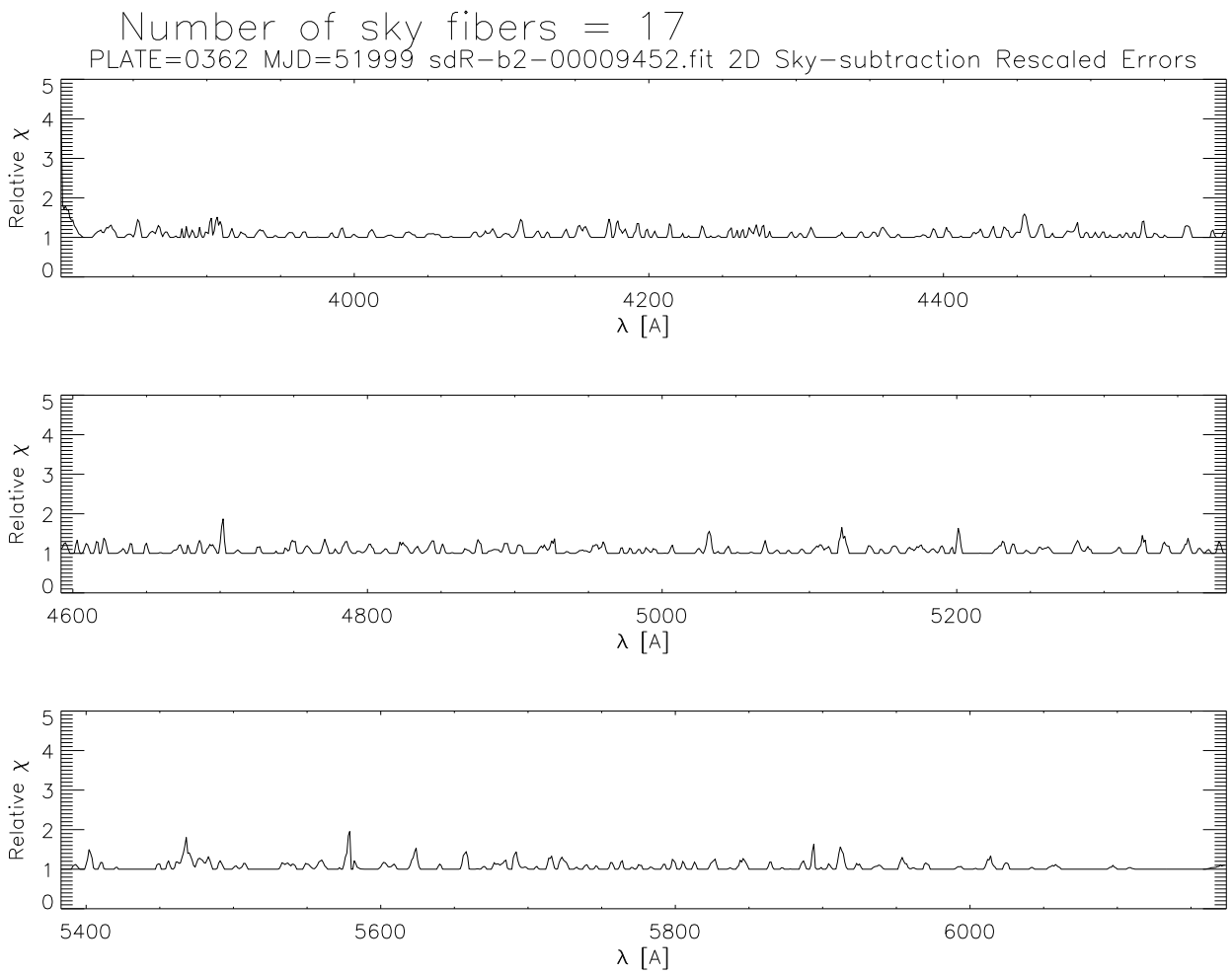

PLATE=0362 MJD=51999 sdR-b2-00009452.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

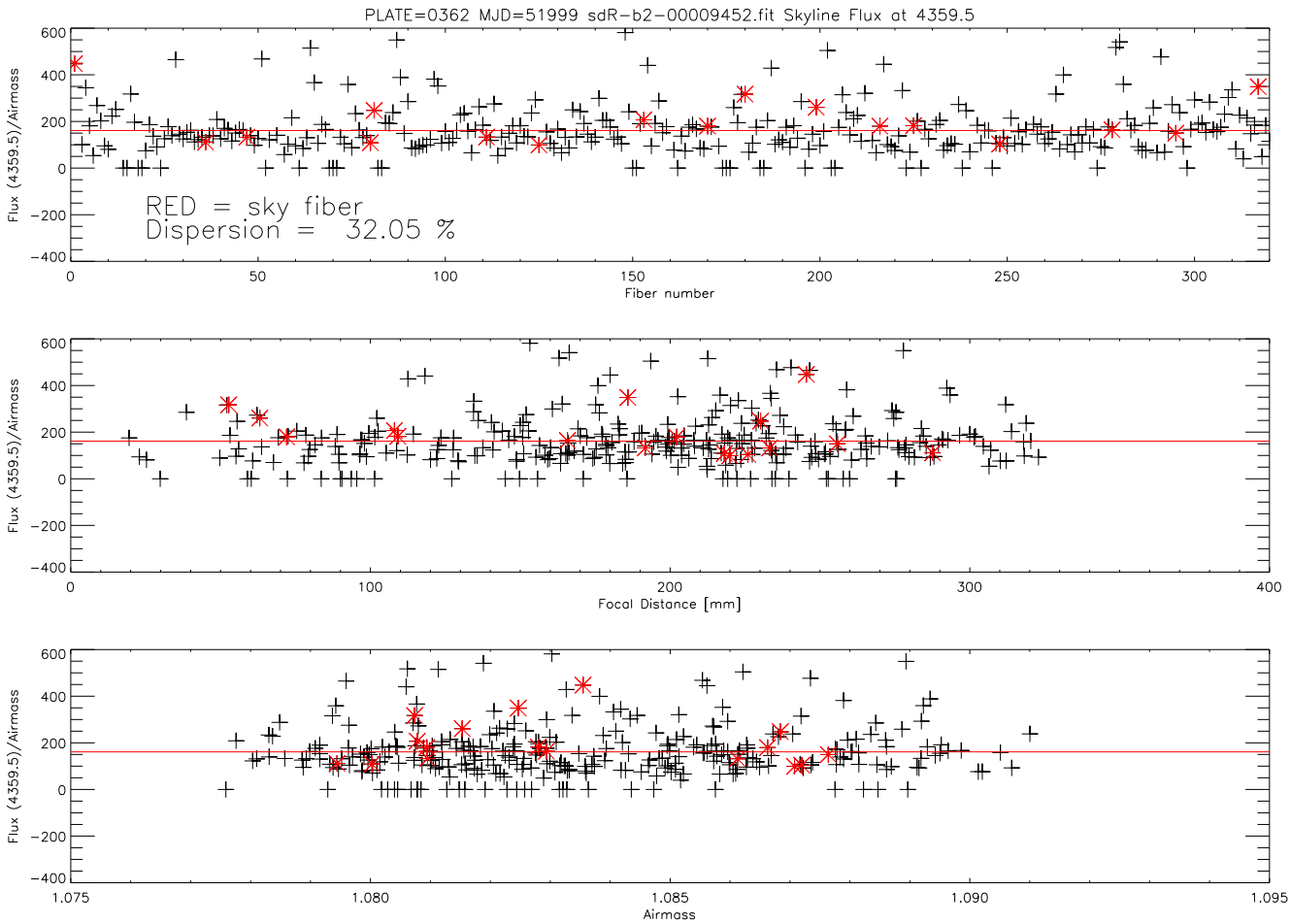

Number of sky fibers = 17
PLATE=0362 MJD=51999 sdR-b2-00009452.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

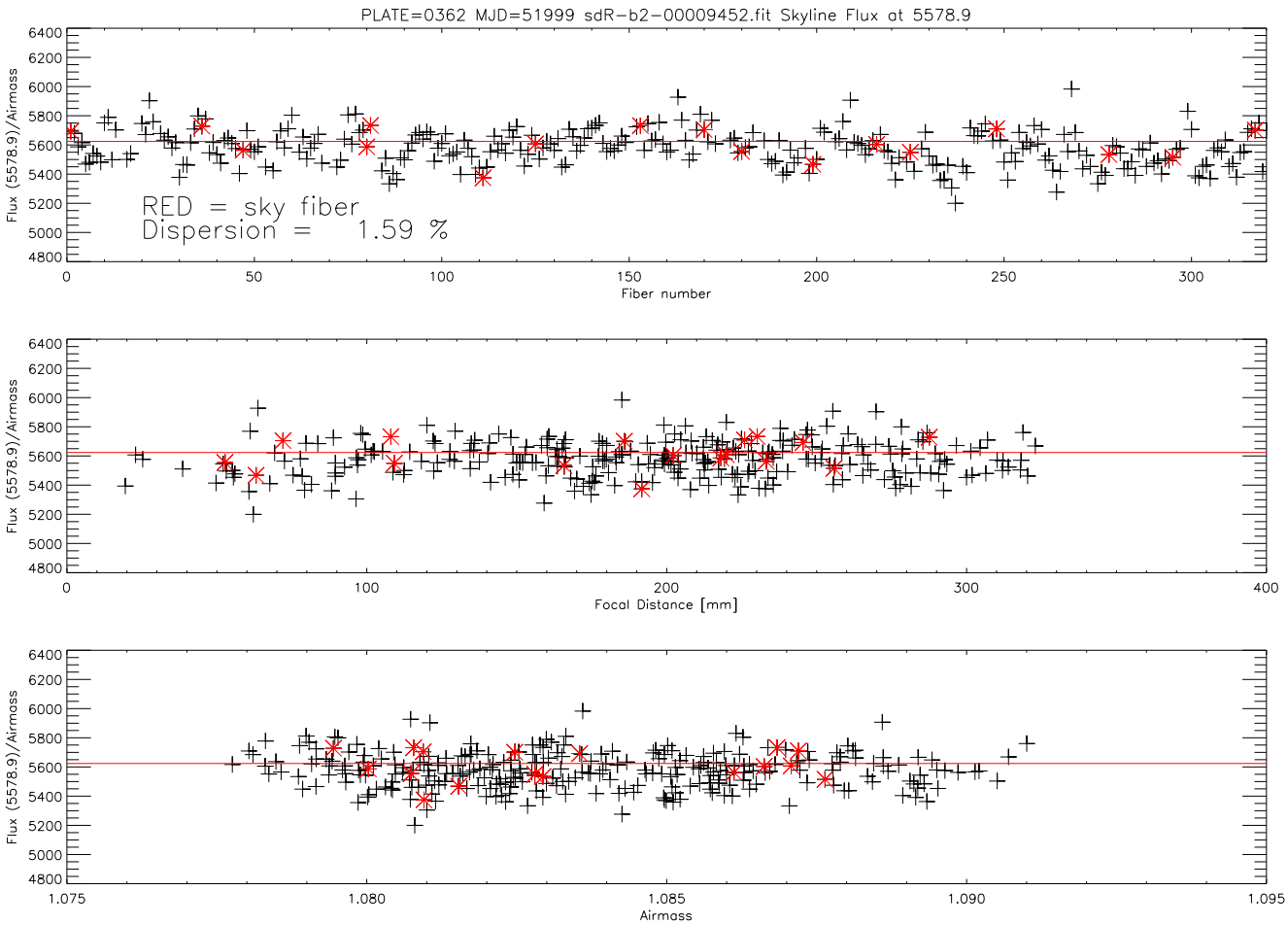

PLATE=0362 MJD=51999 sdR-b2-00009452.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

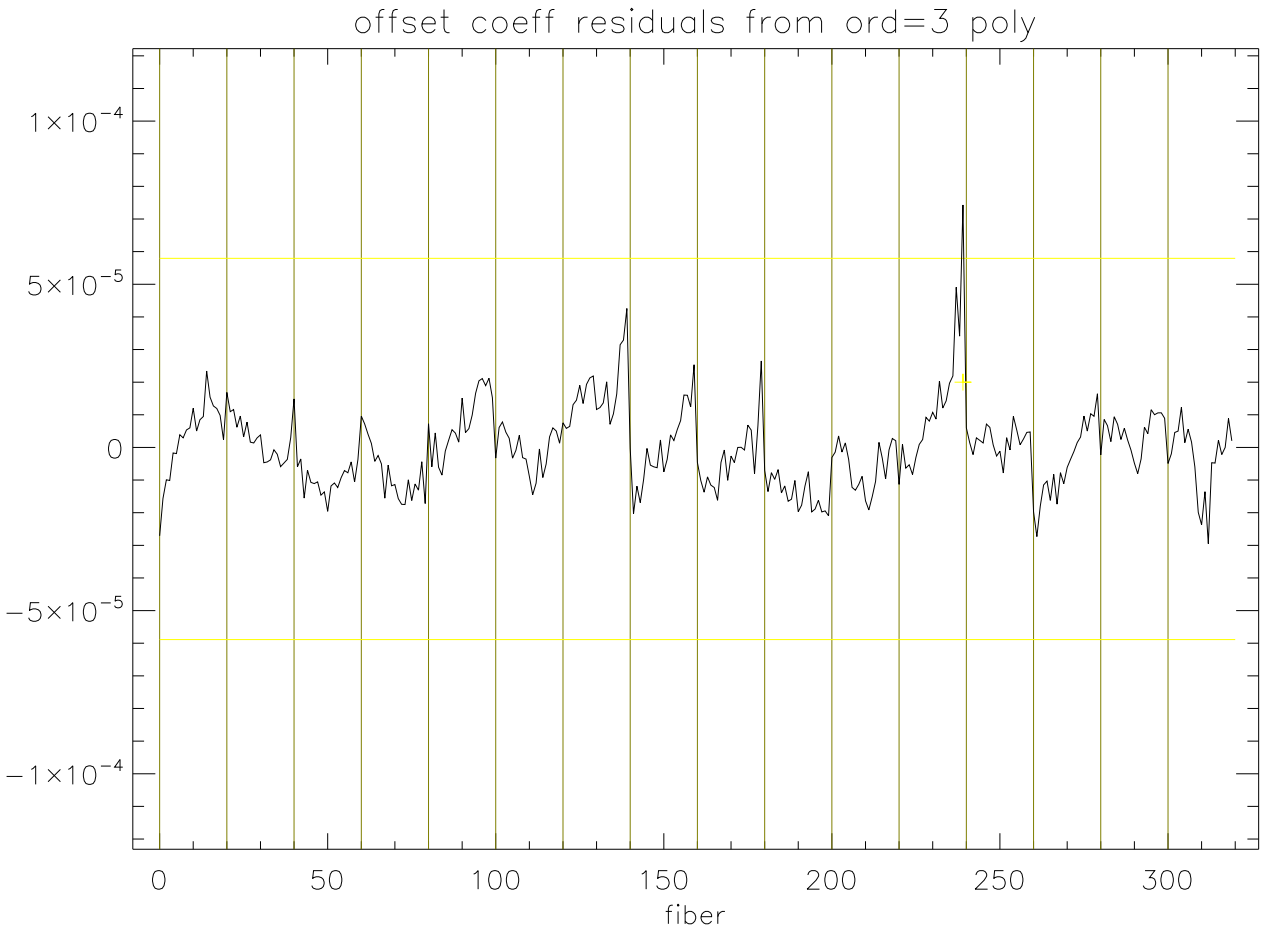

PLATE=0362 MJD=51999 sdR-b2-00009452.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
−500
5570
5575
5580
5585
5590
λ [A]

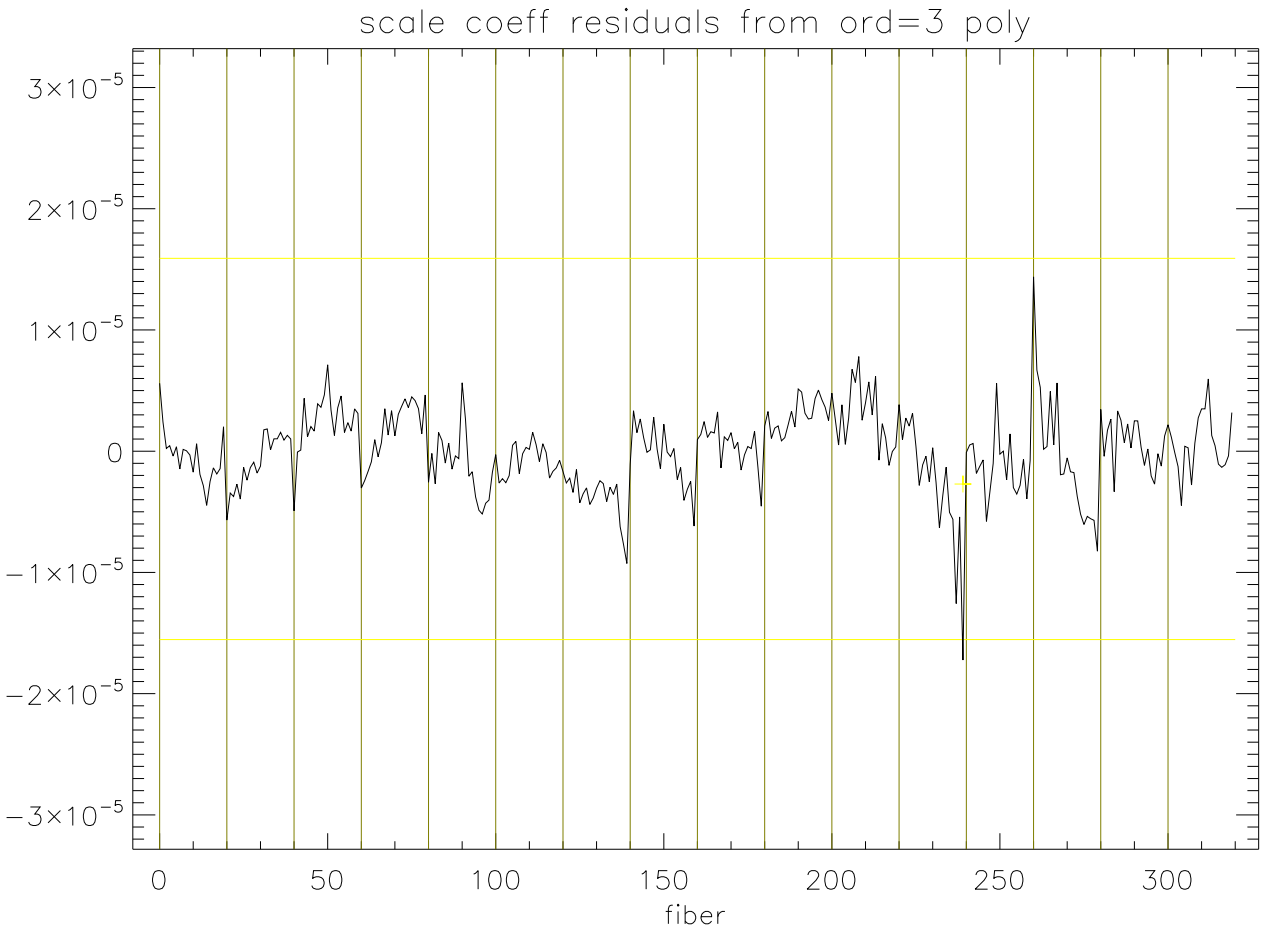

PLATE=0362 MJD=51999 sdR-b2-00009452.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

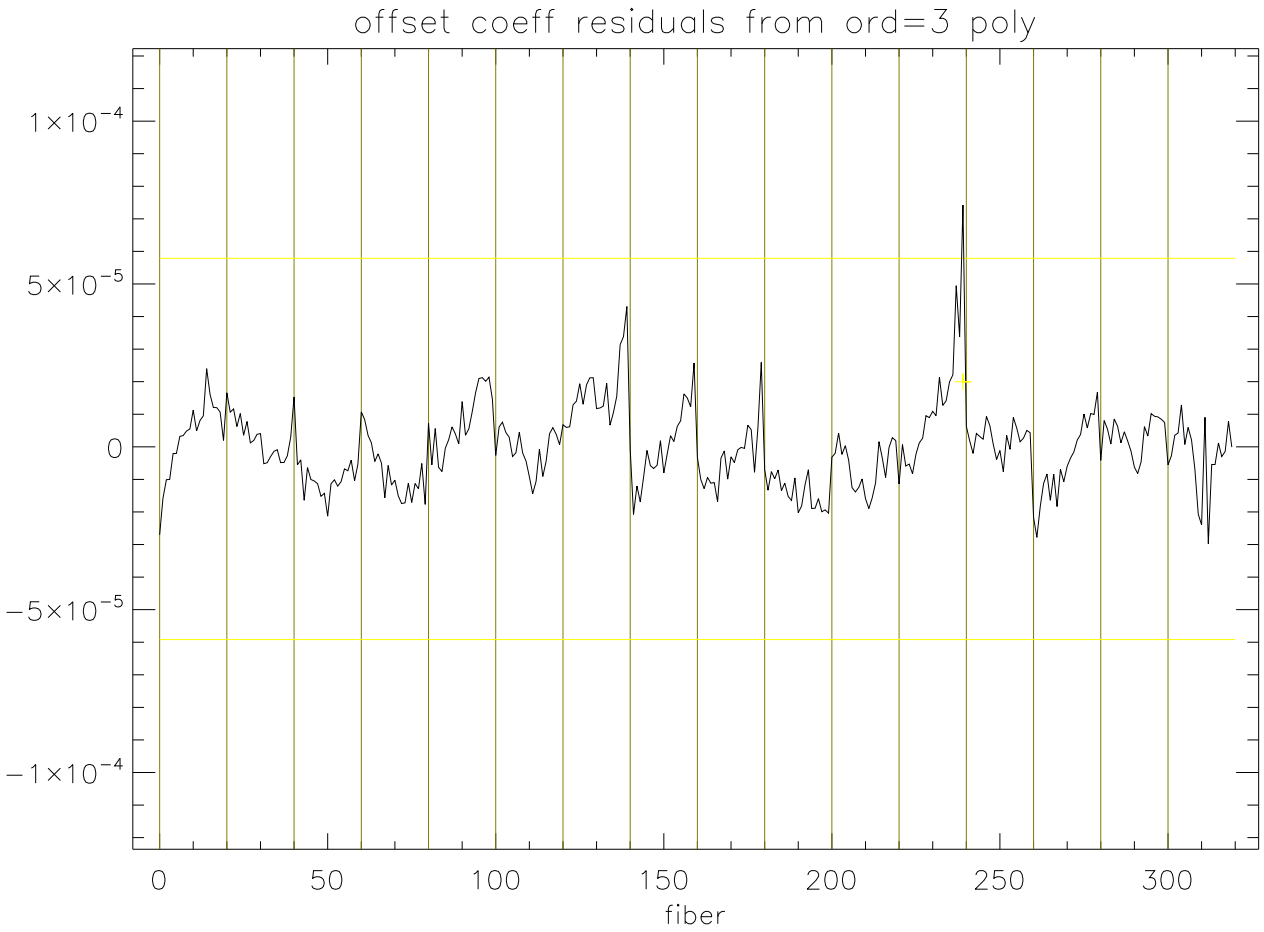

Number of sky fibers = 17
PLATE=0362 MJD=51999 sdR-b2-00009452.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

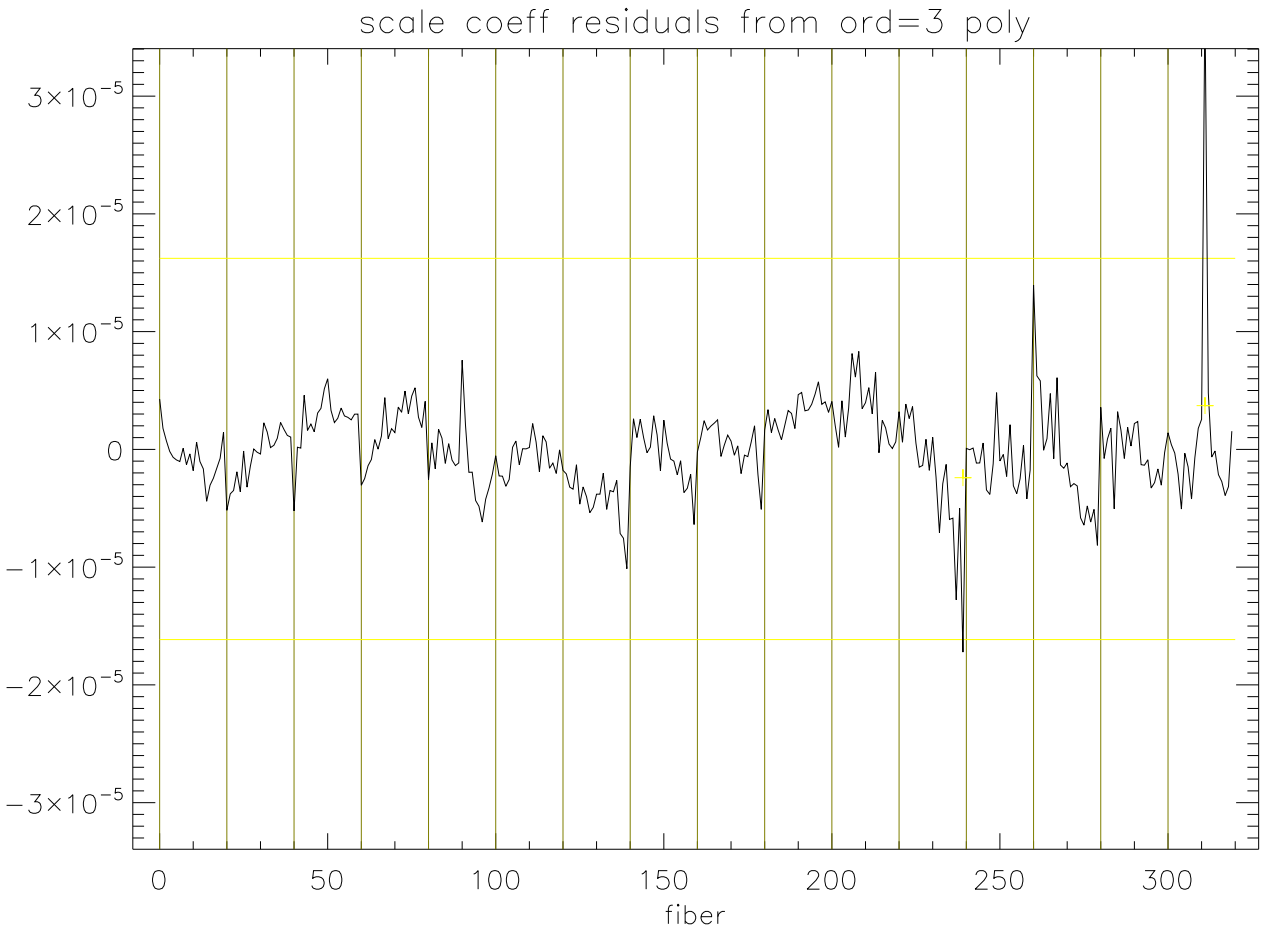

PLATE=0362 MJD=51999 sdR-b2-00009452.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 32.05 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

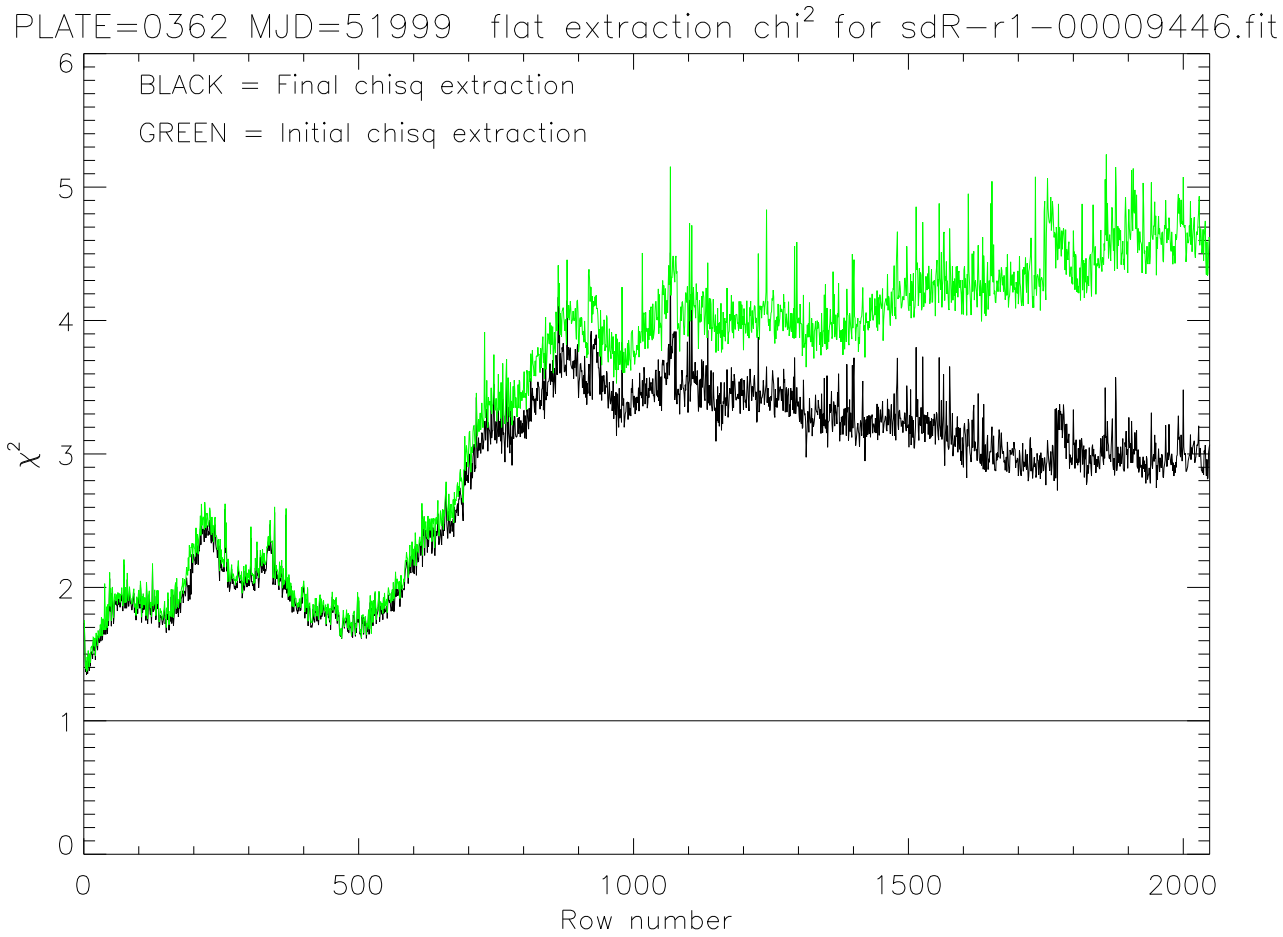

PLATE=0362 MJD=51999 sdR-b2-00009452.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.59 %
Fiber number
Focal Distance [mm]
Airmass

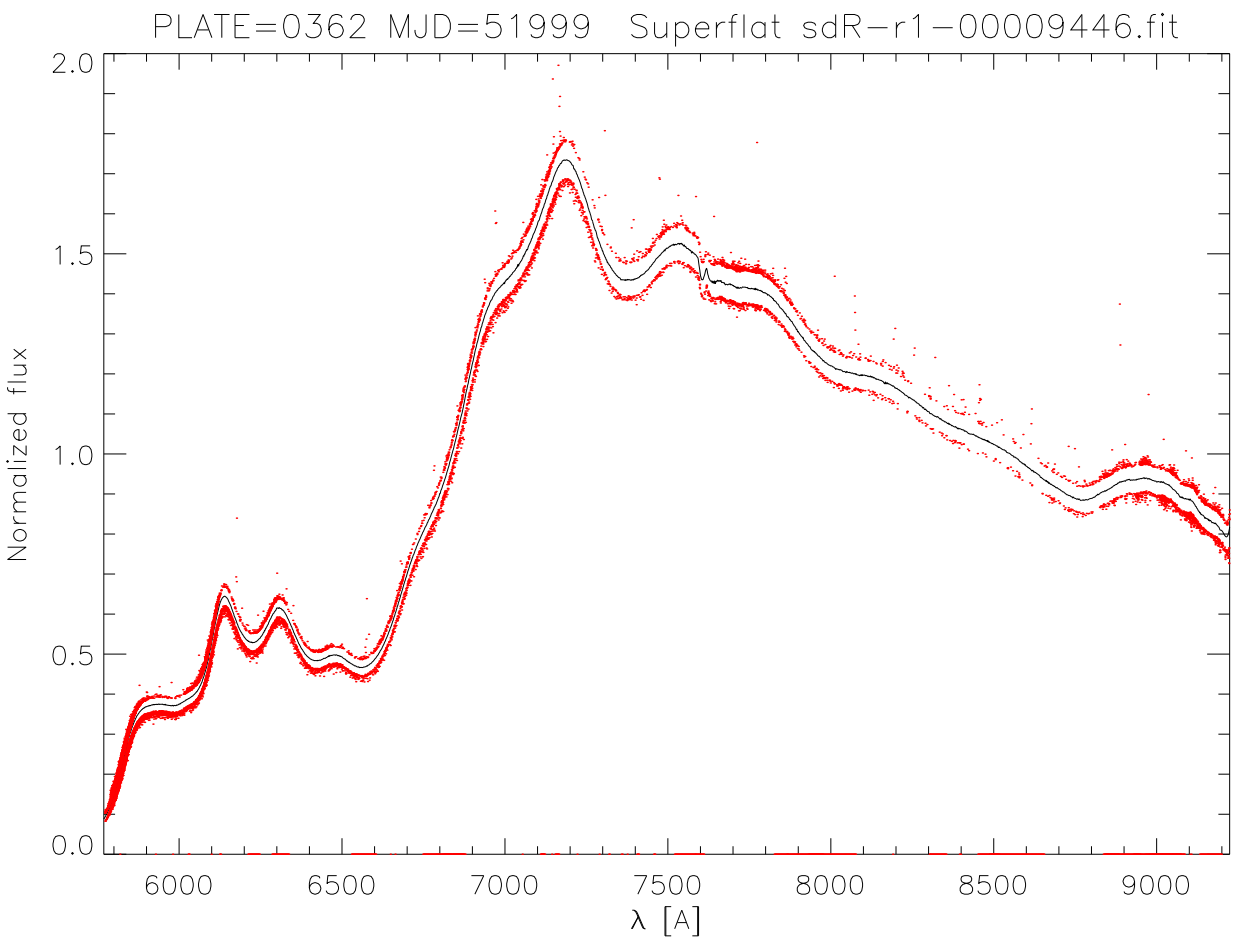

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

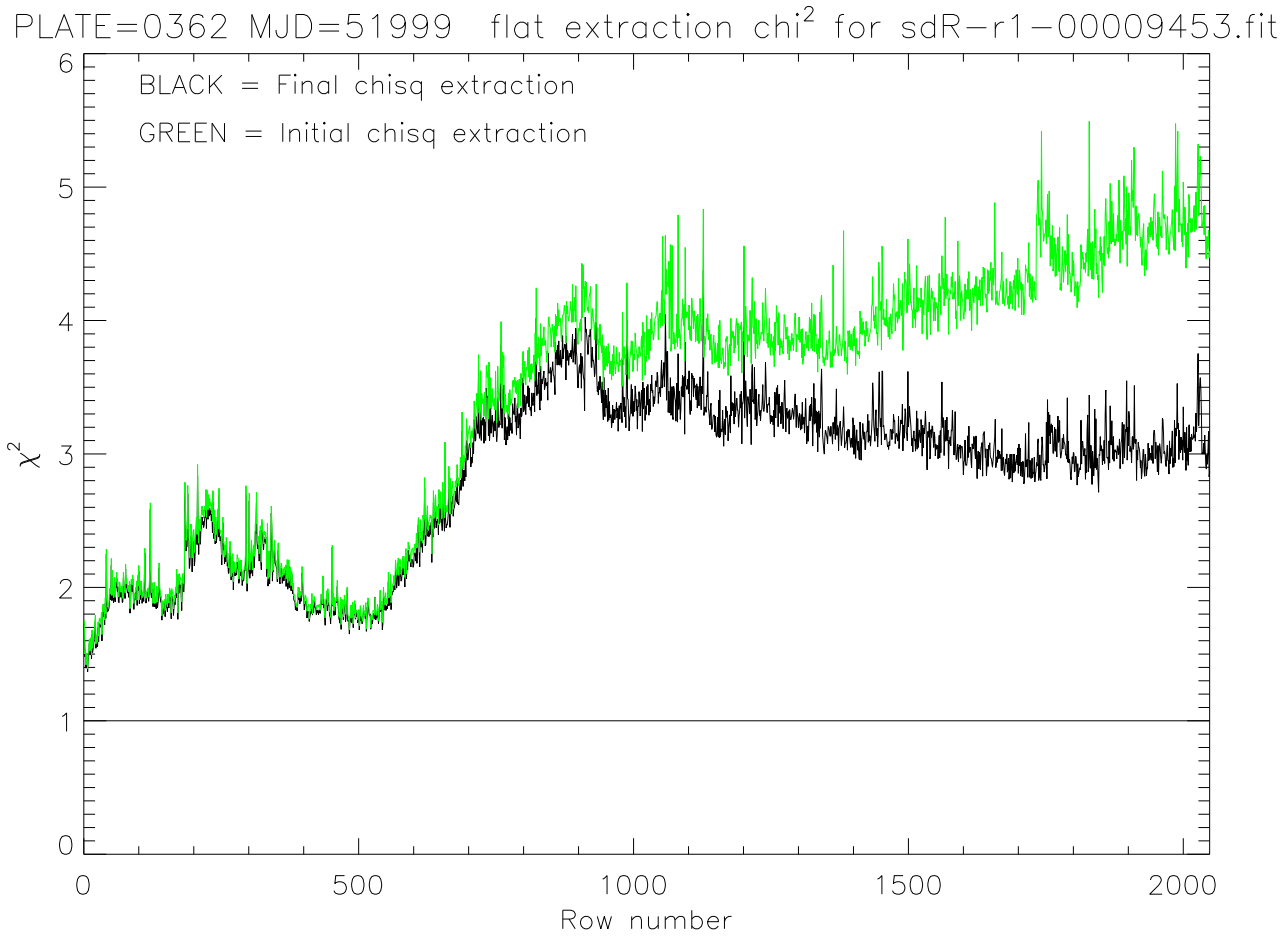

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

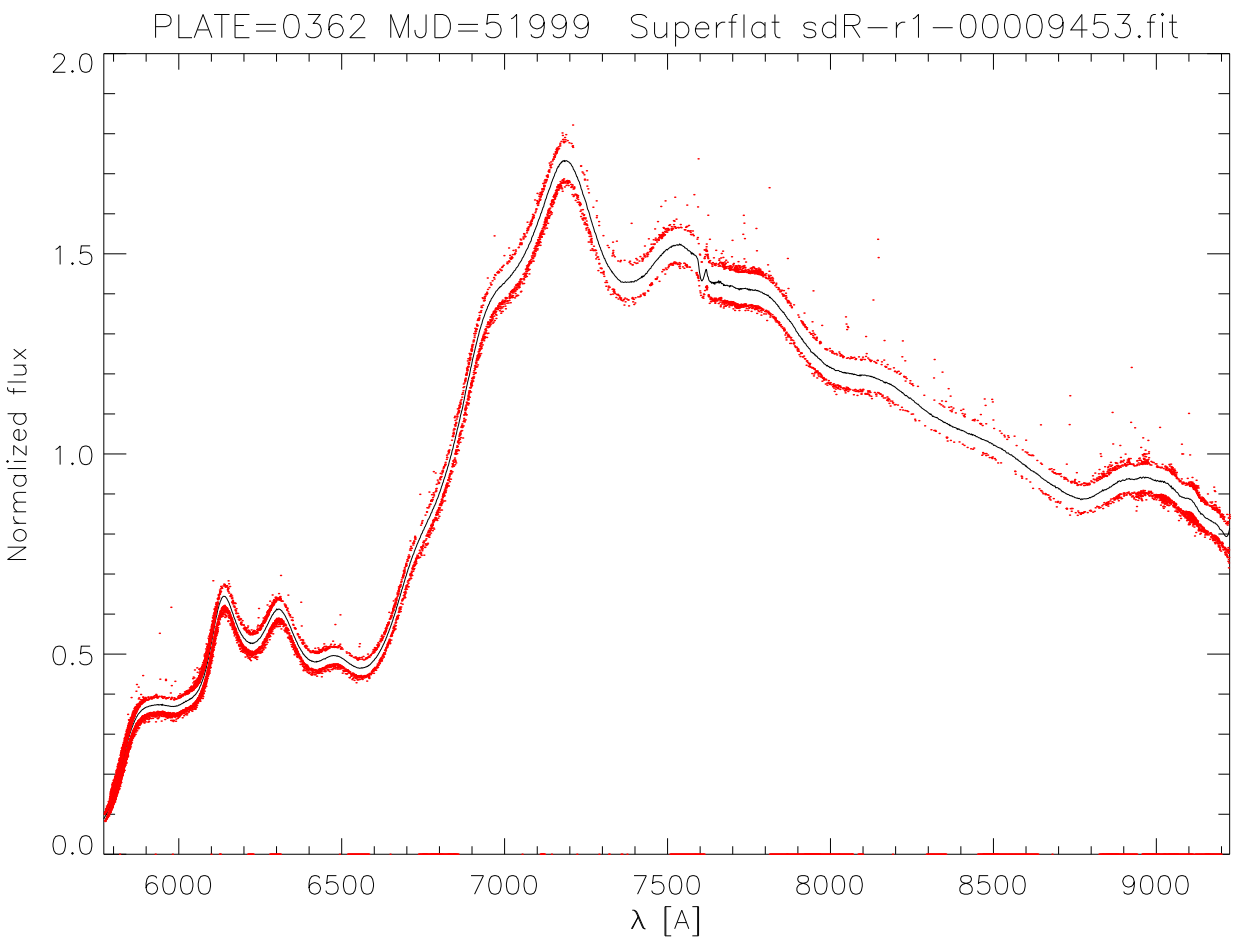

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

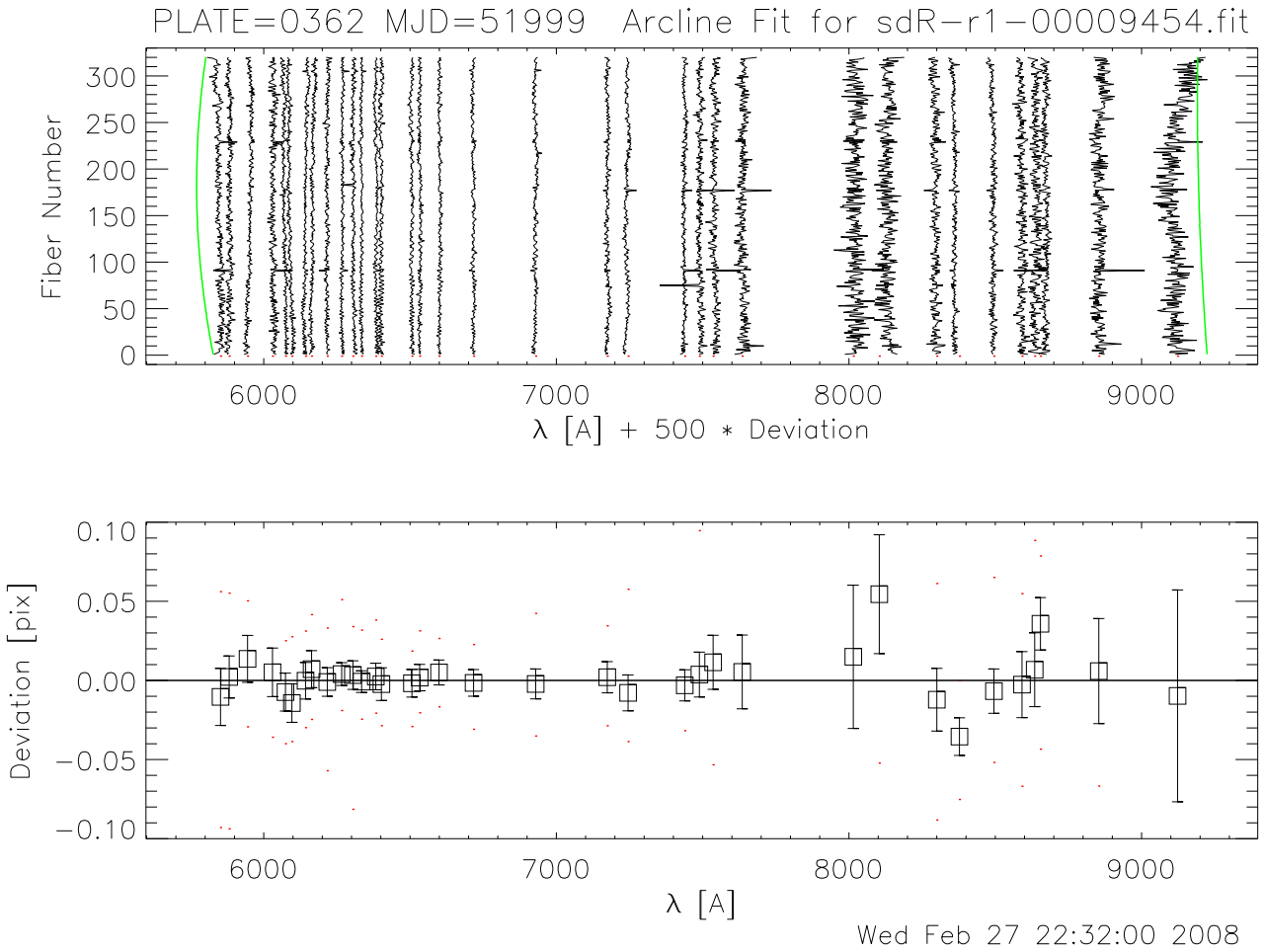

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

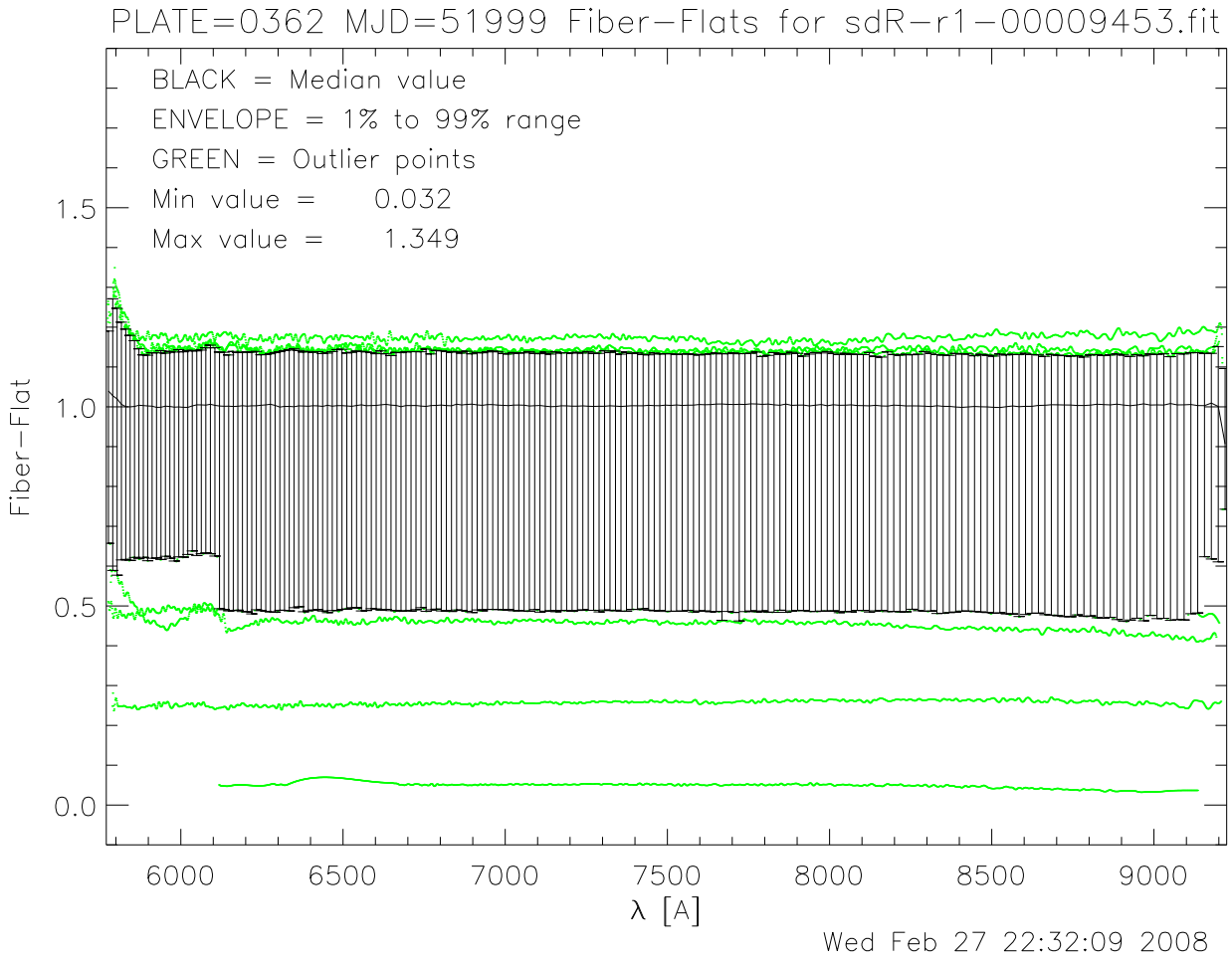

PLATE=0362 MJD=51999 flat extraction chi^2 for sdR−r1−00009446.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

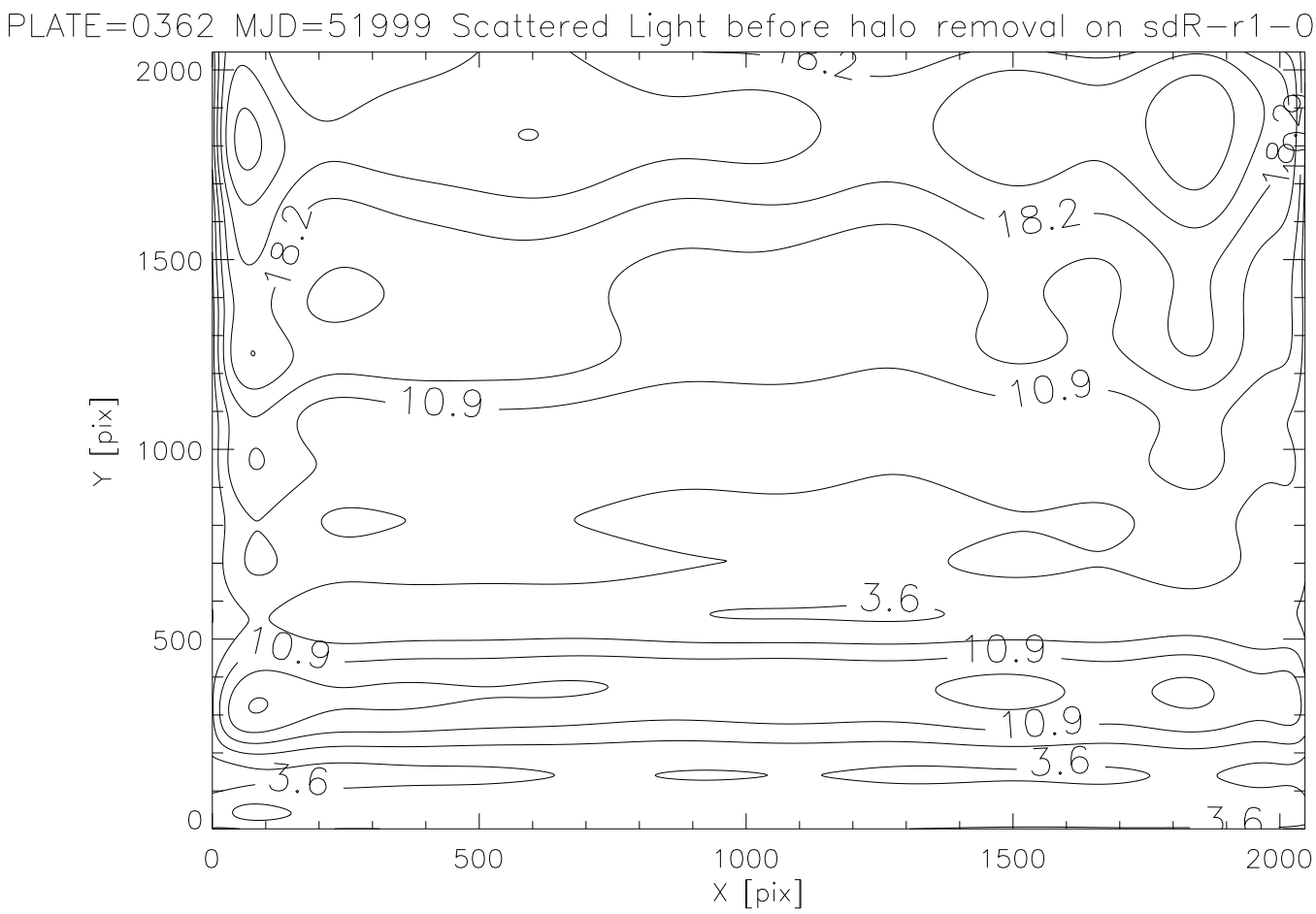

PLATE=0362 MJD=51999 Superflat sdR-r1-00009446.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

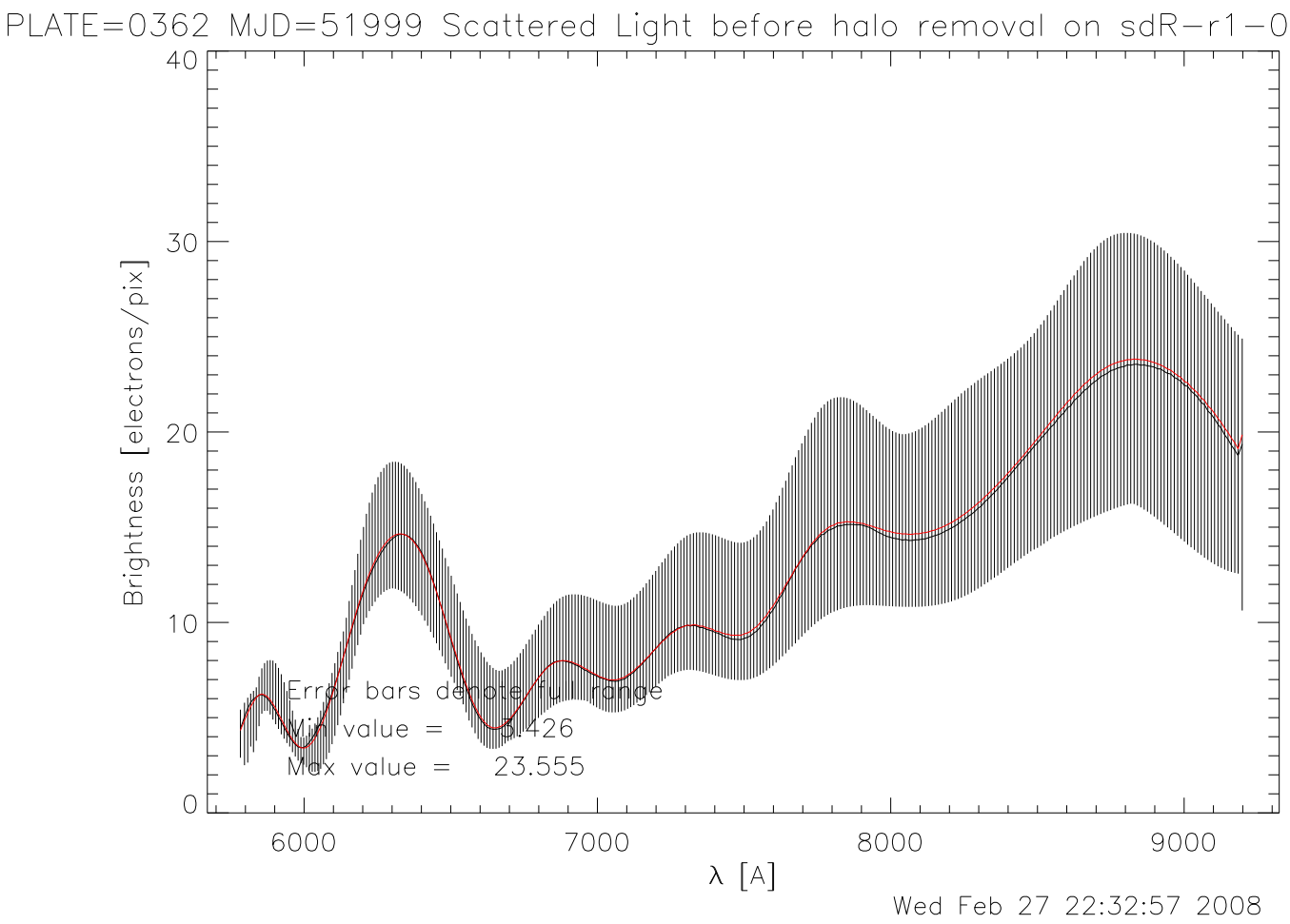

PLATE=0362 MJD=51999 flat extraction chi^2 for sdR−r1−00009453.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

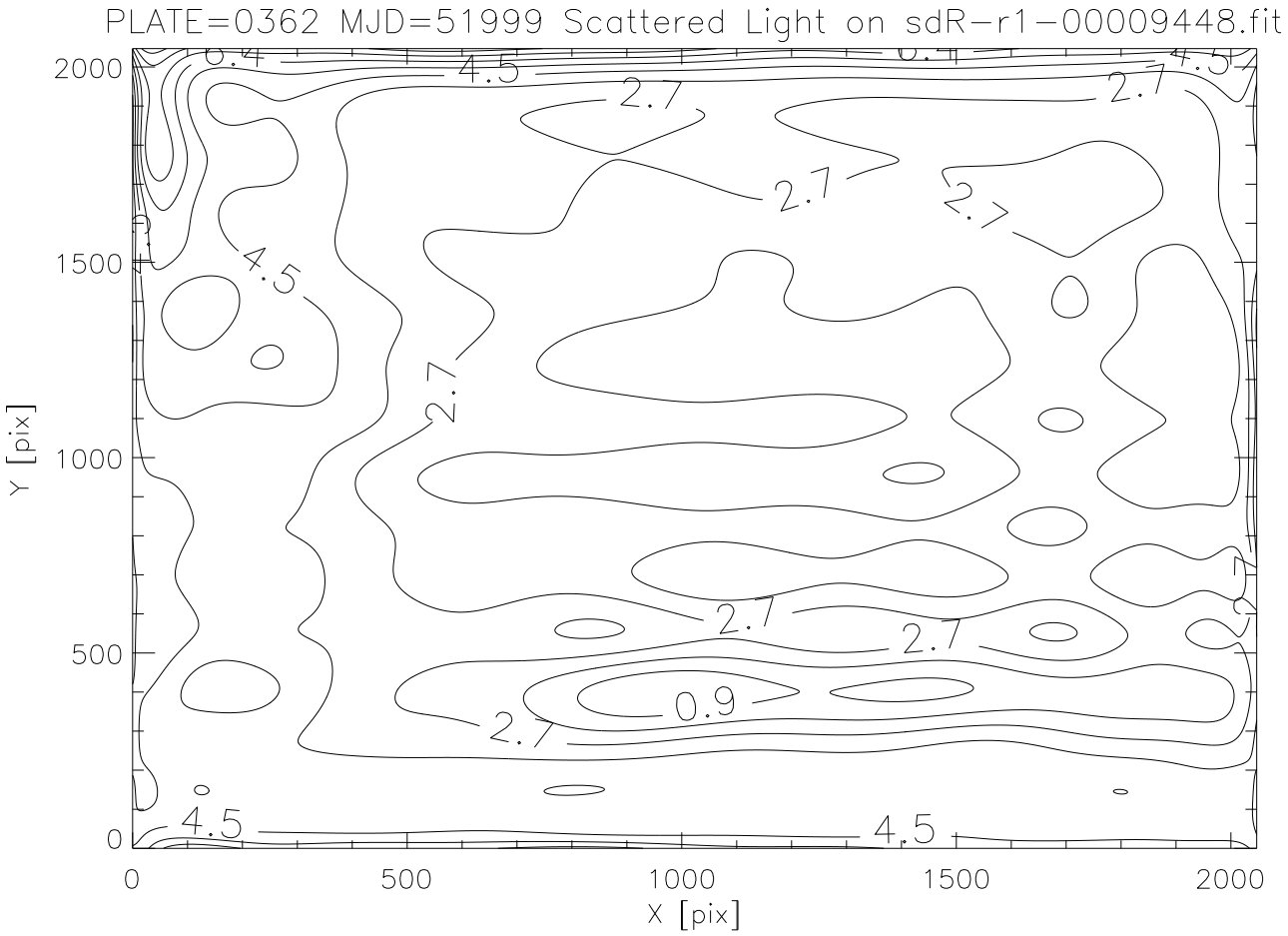

PLATE=0362 MJD=51999 Superflat sdR-r1-00009453.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

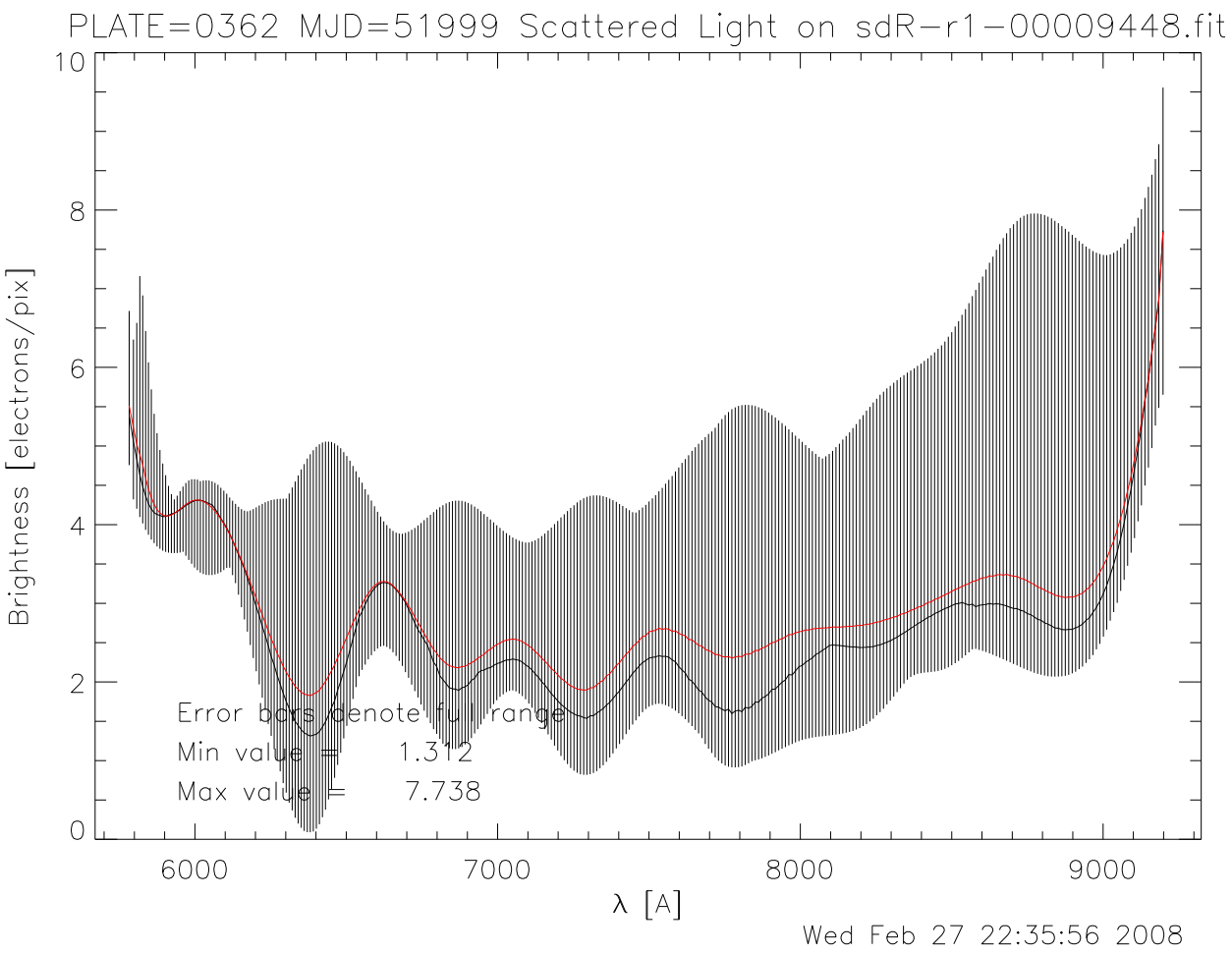

PLATE=0362 MJD=51999 Arcline Fit for sdR-r1-00009454.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Wed Feb 27 22:32:00 2008

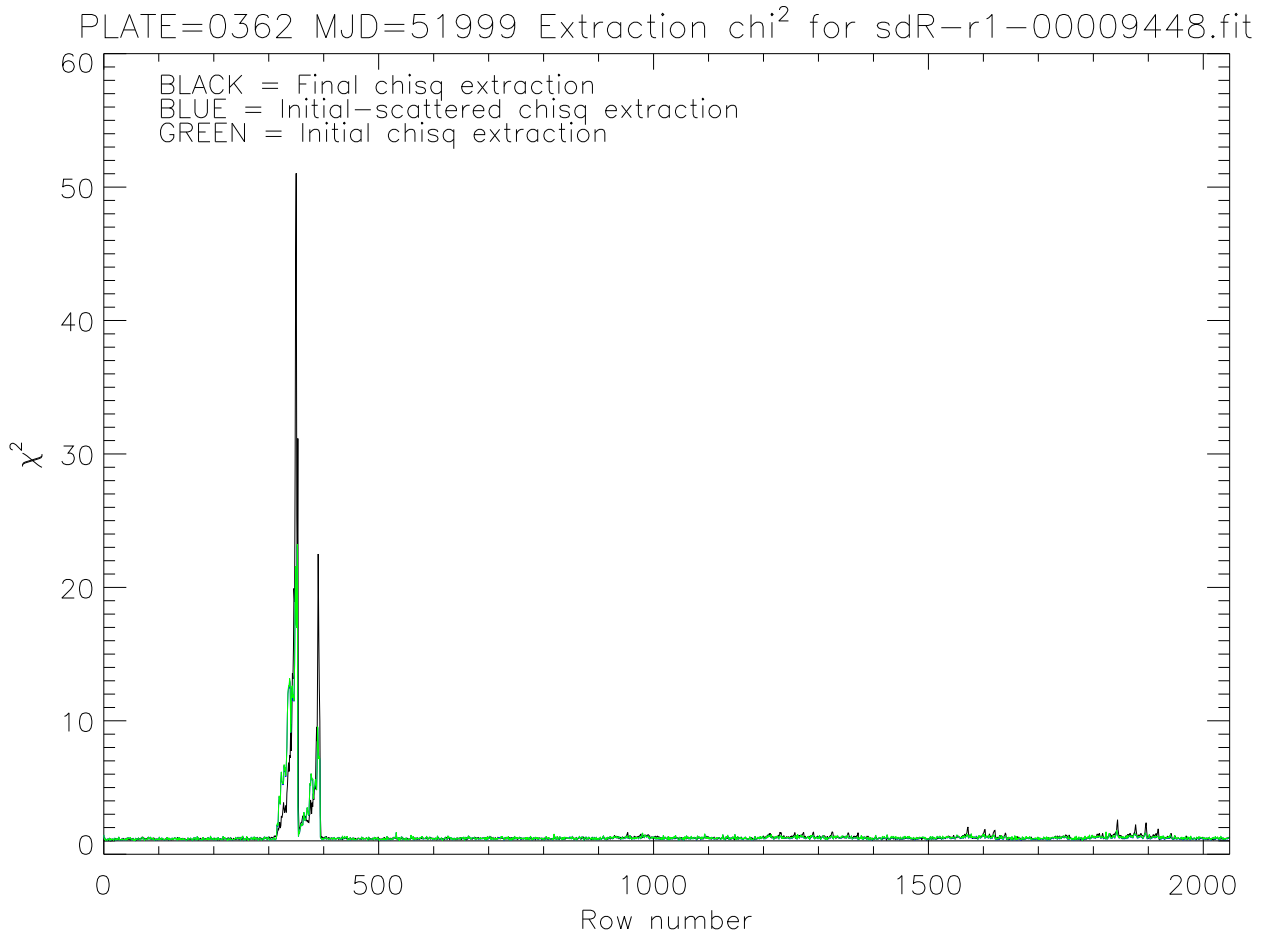

PLATE=0362 MJD=51999 Fiber-Flats for sdR-r1-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.032
Max value = 1.349
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 22:32:09 2008

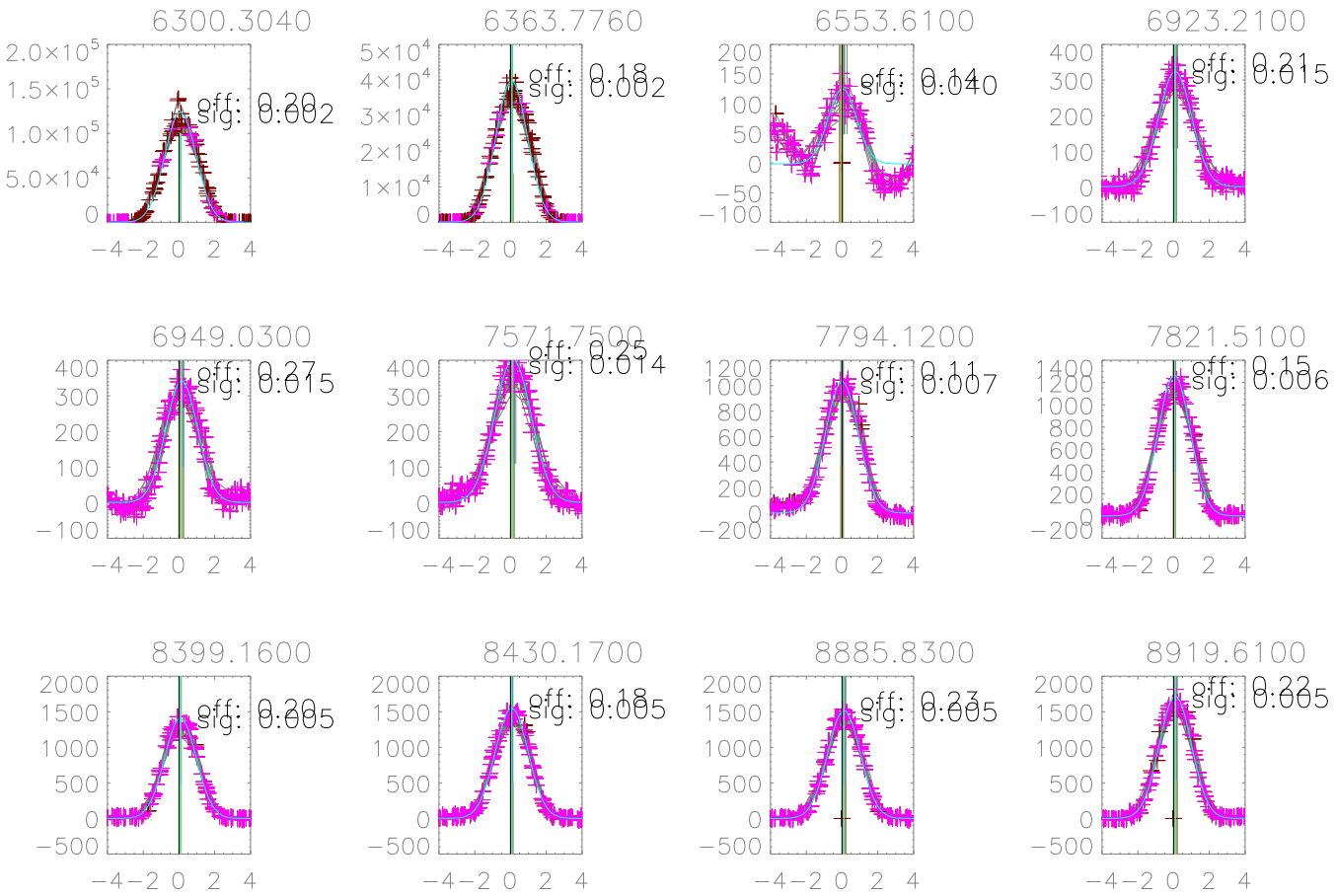

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r1-00009448.fi
18.2
18.2
18.2
18.2
10.9
10.9
0
3.6
10.9
10.9
10.9
3.6
3.6
3.6
Y [pix]
X [pix]
0
500
1000
1500
2000

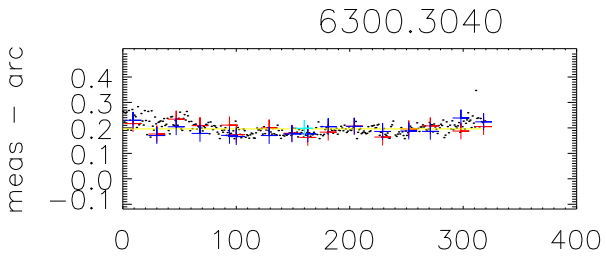

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r1-00009448.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 3.426
Max value = 23.555
Wed Feb 27 22:32:57 2008

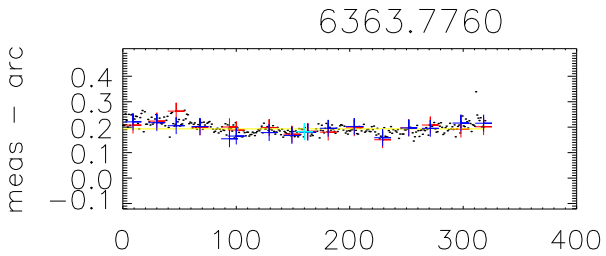

PLATE=0362 MJD=51999 Scattered Light on sdR−r1−00009448.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.5
2.7
0.9

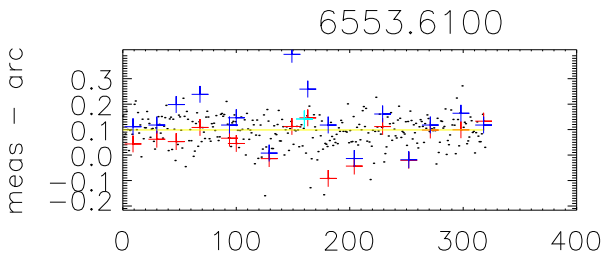

PLATE=0362 MJD=51999 Scattered Light on sdR-r1-00009448.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.312
Max value = 7.738
Wed Feb 27 22:35:56 2008

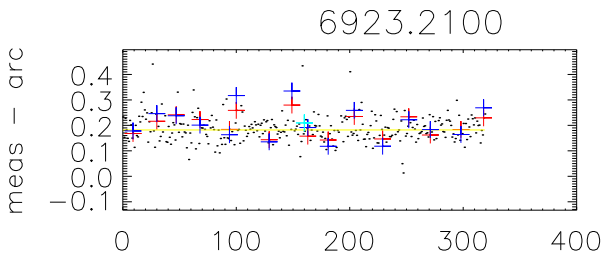

PLATE=0362 MJD=51999 Extraction chi^2 for sdR−r1−00009448.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
10
20
30
40
50
60
0
500
1000
1500
2000
Row number

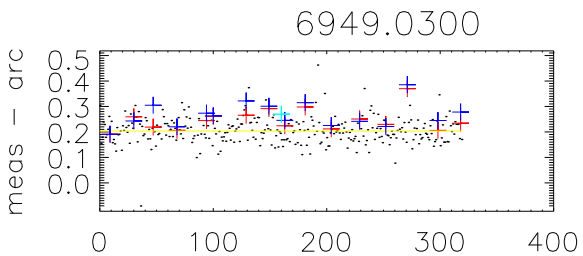

6300.3040
off: 0.20
sig: 0.002
6363.7760
off: 0.18
sig: 0.002
6553.6100
off: 0.14
sig: 0.040
6923.2100
off: 0.21
sig: 0.015
6949.0300
off: 0.27
sig: 0.015
7571.7500
off: 0.25
sig: 0.014
7794.1200
off: 0.11
sig: 0.007
7821.5100
off: 0.15
sig: 0.006
8399.1600
off: 0.20
sig: 0.005
8430.1700
off: 0.18
sig: 0.005
8885.8300
off: 0.23
sig: 0.005
8919.6100
off: 0.22
sig: 0.005

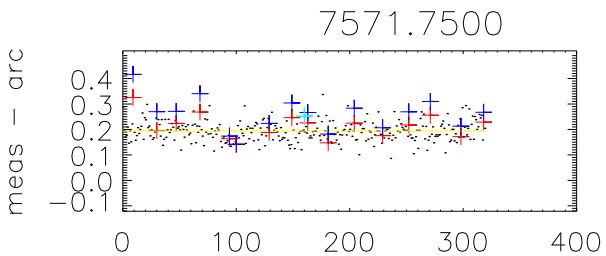

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

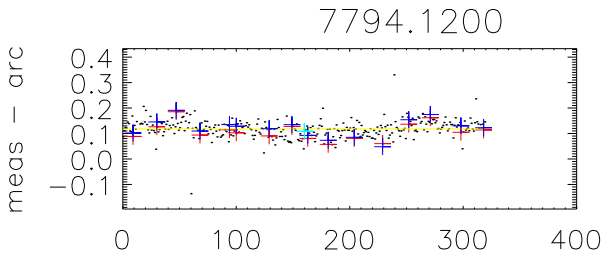

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

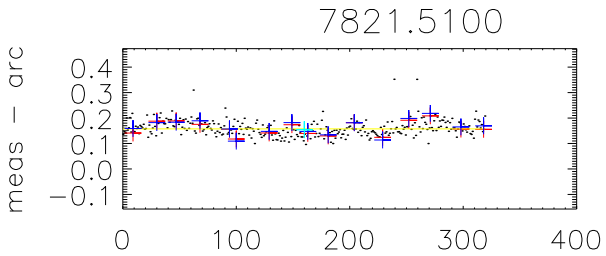

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

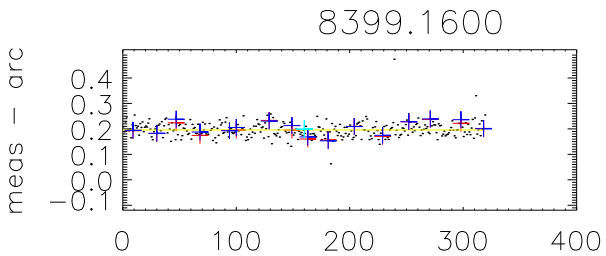

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

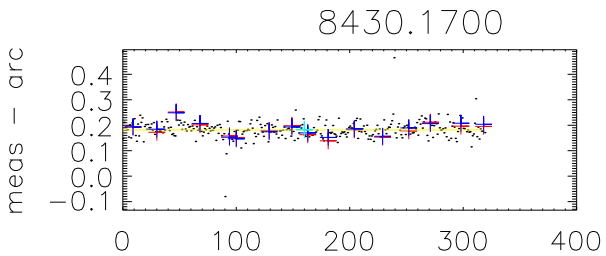

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

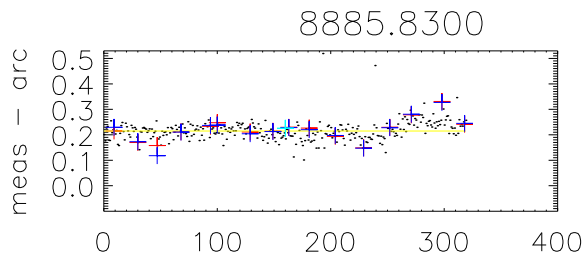

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

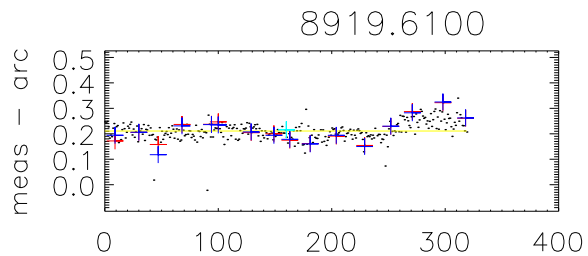

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

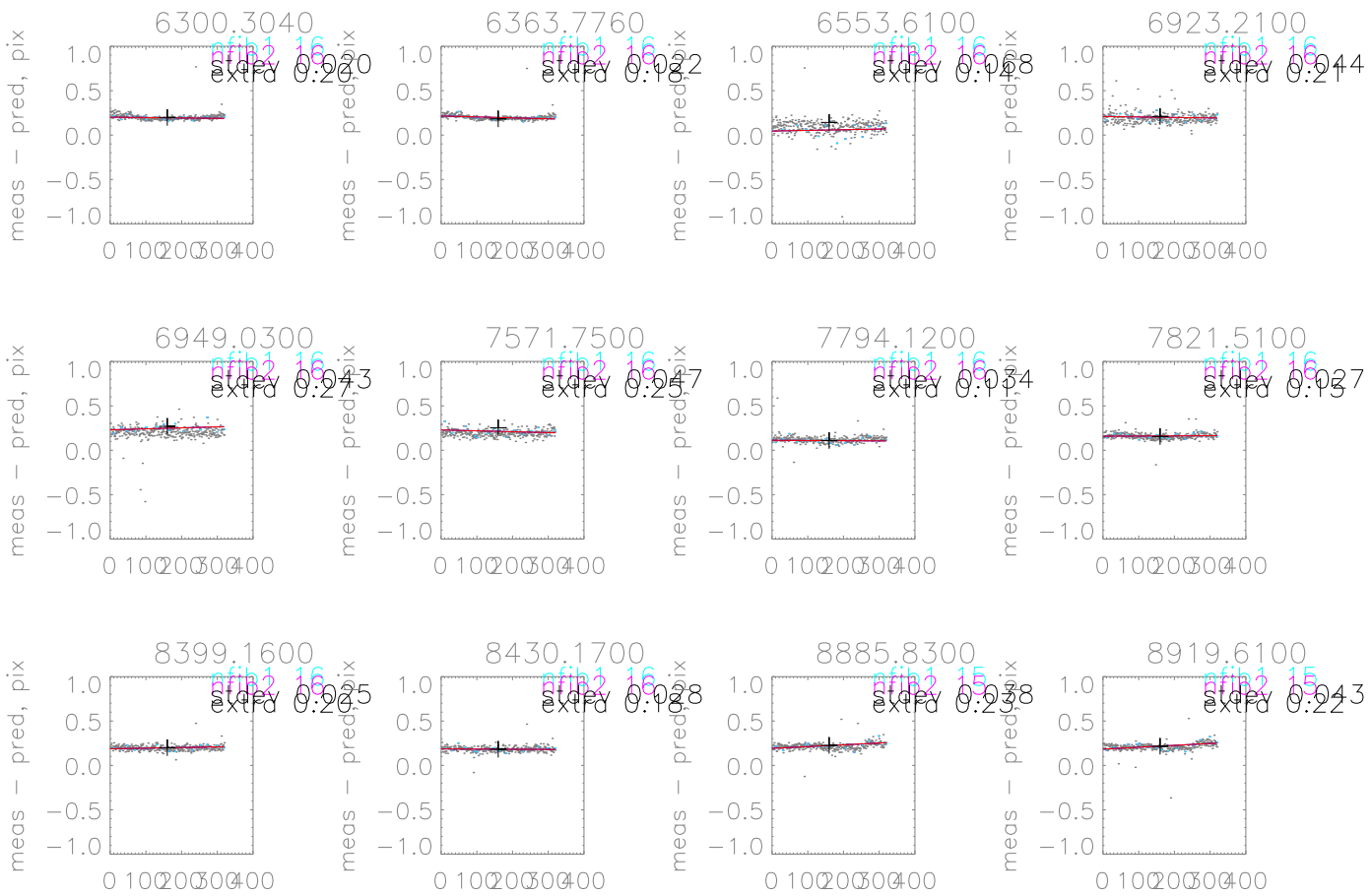

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

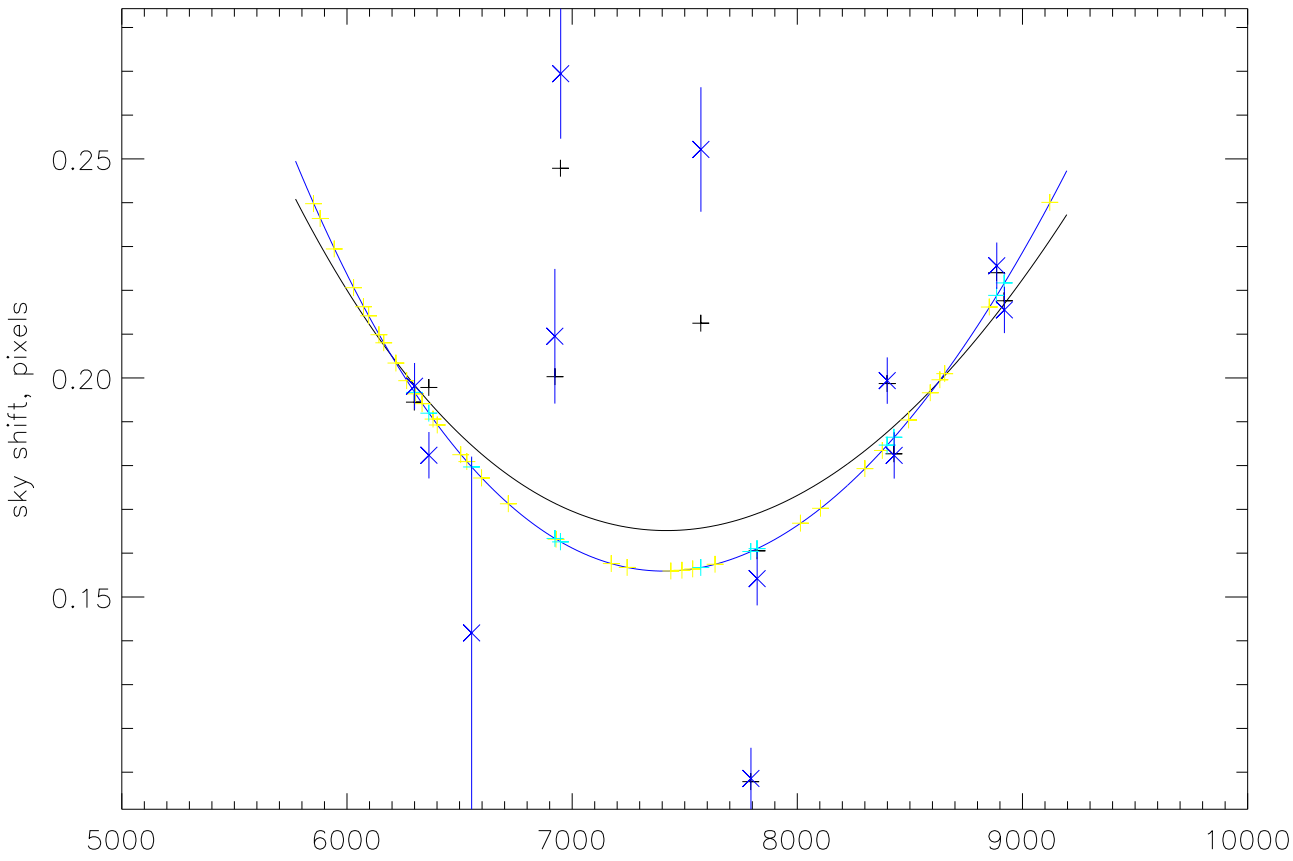

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

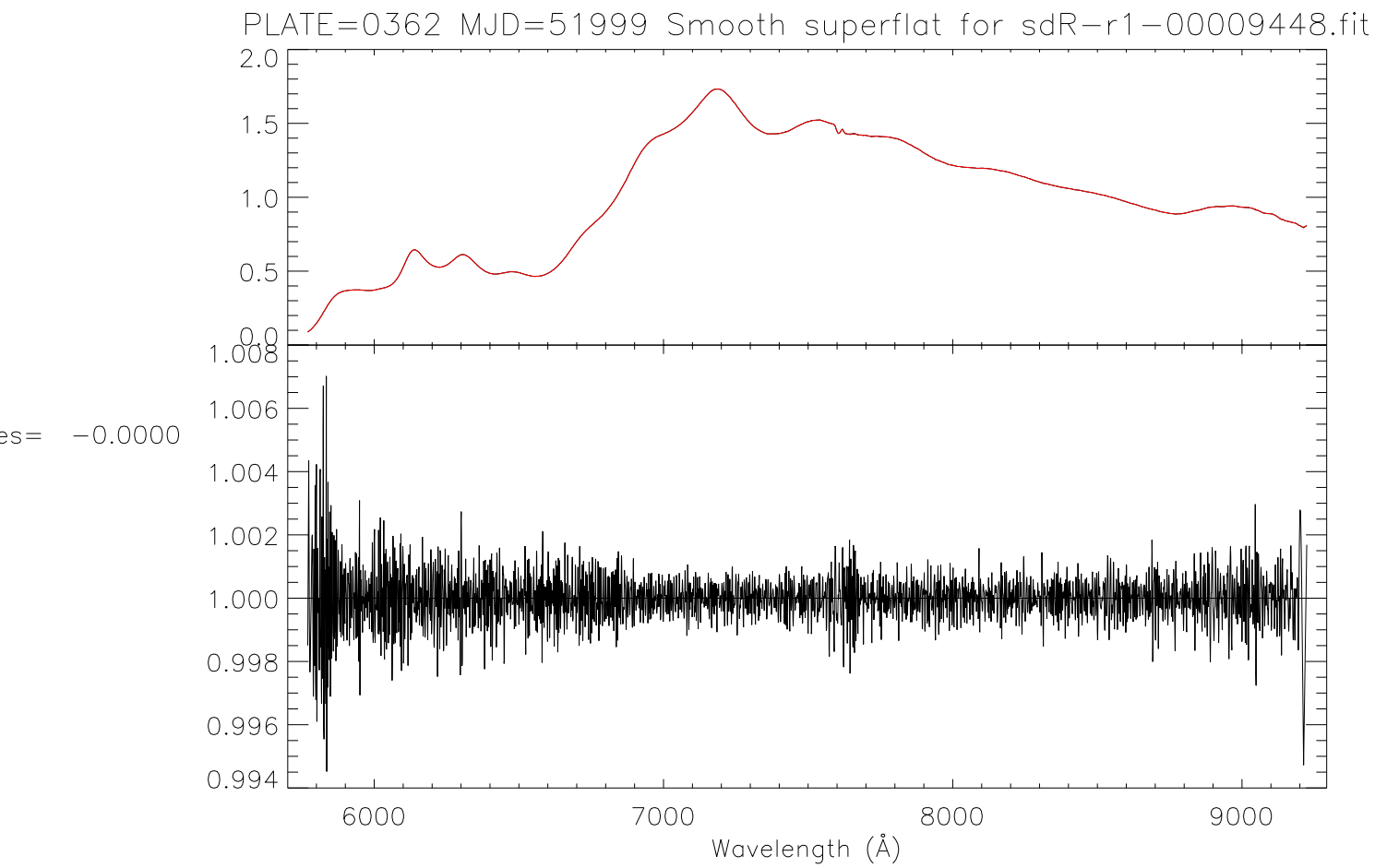

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

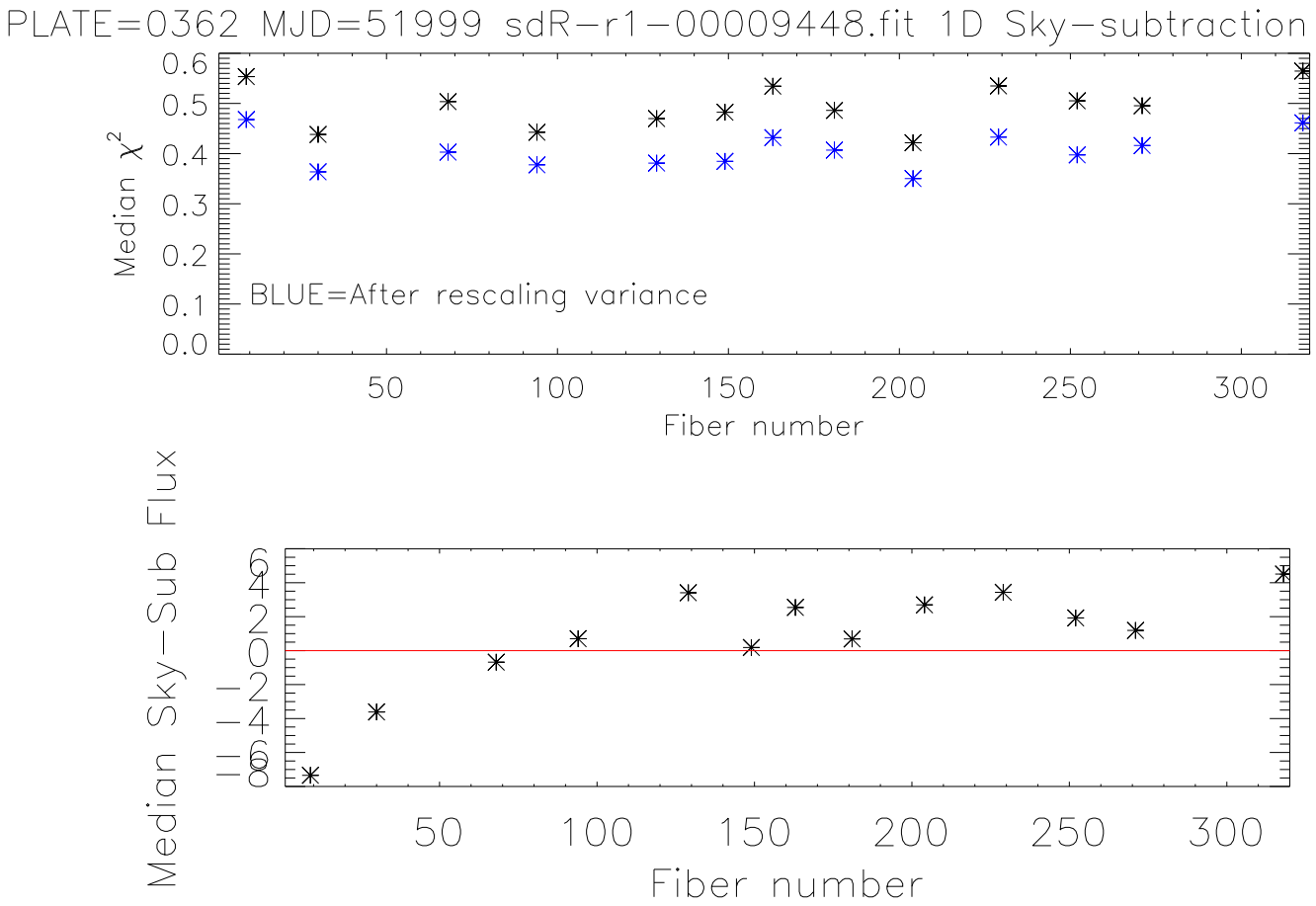

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

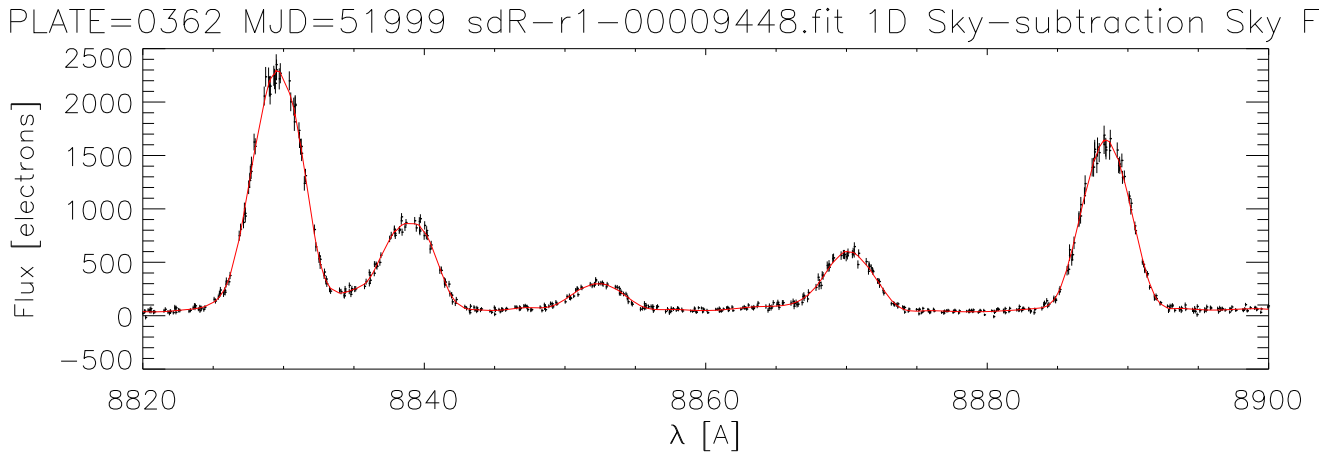

6300.3040
stdev 0.020
extra 0.26
6363.7760
stdev 0.022
extra 0.18
6553.6100
stdev 0.048
extra 0.14
6923.2100
stdev 0.044
extra 0.21
6949.0300
stdev 0.043
extra 0.27
7571.7500
stdev 0.047
extra 0.25
7794.1200
stdev 0.034
extra 0.11
7821.5100
stdev 0.027
extra 0.15
8399.1600
stdev 0.025
extra 0.24
8430.1700
stdev 0.028
extra 0.18
8885.8300
stdev 0.038
extra 0.23
8919.6100
stdev 0.043
extra 0.22
meas − pred, pix

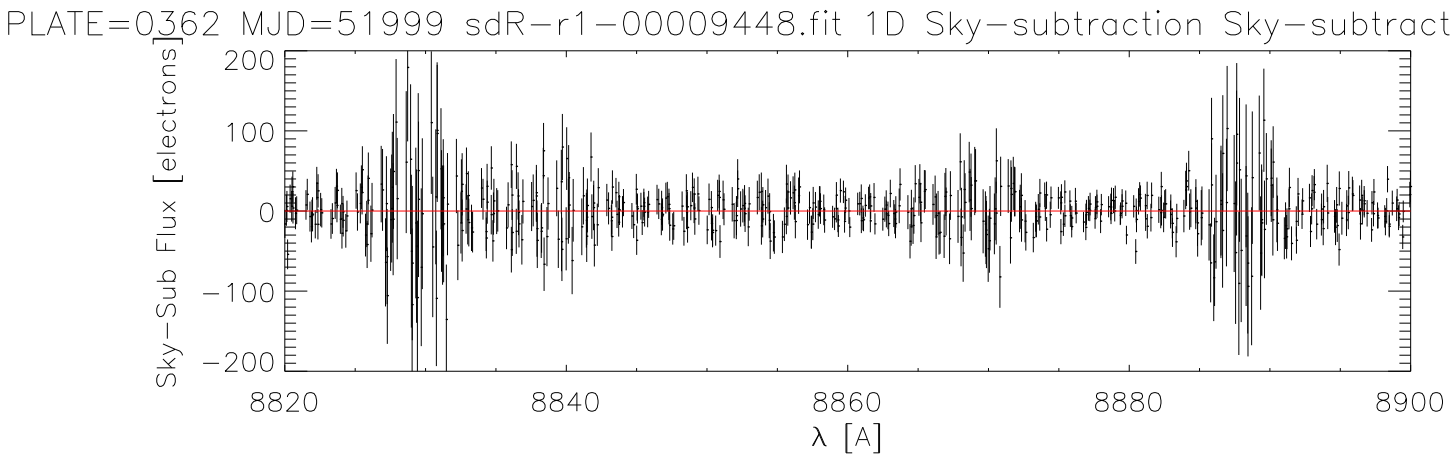

sky shift, pixels
0.25
0.20
0.15
5000
6000
7000
8000
9000
10000

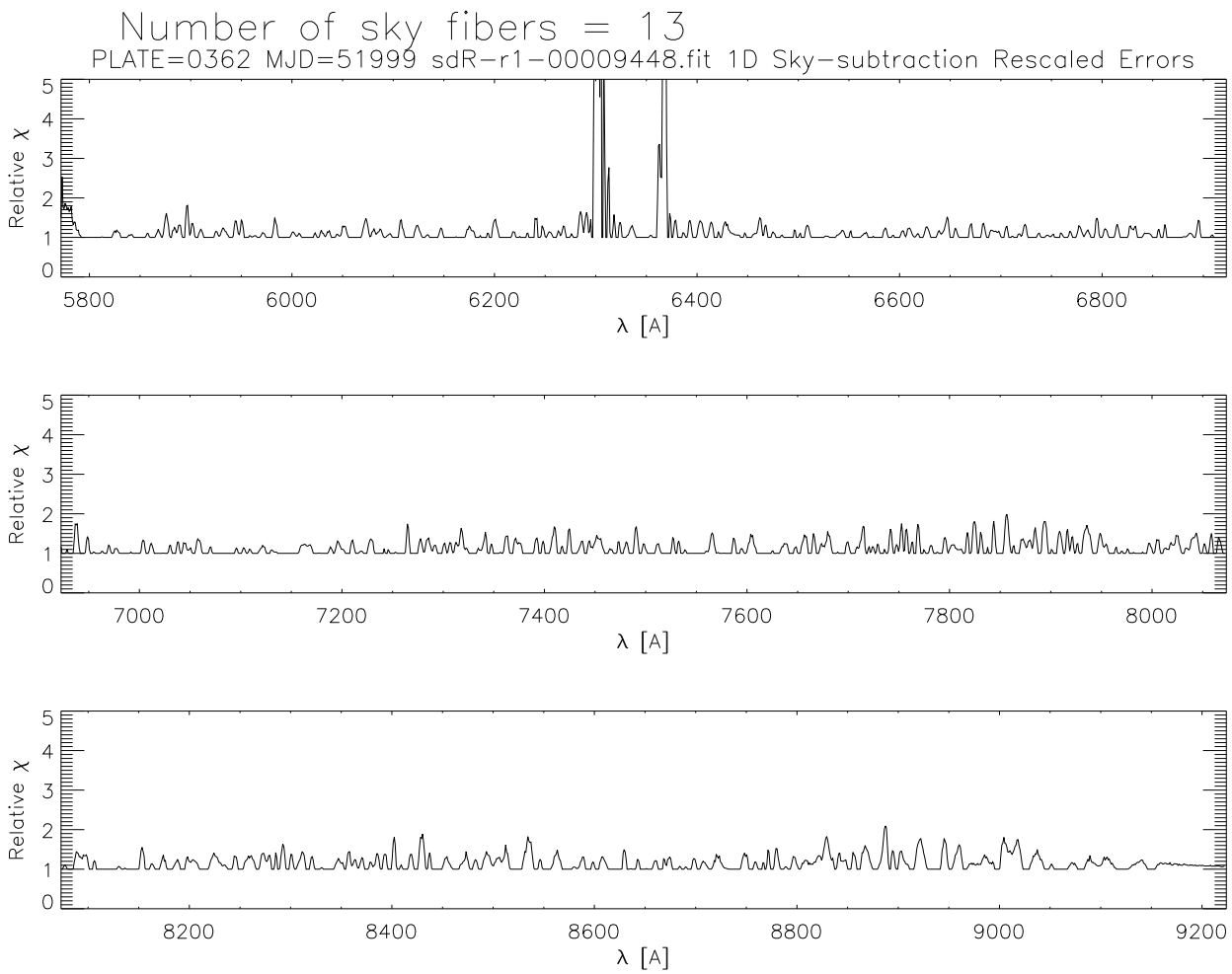

PLATE=0362 MJD=51999 Smooth superflat for sdR-r1-00009448.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

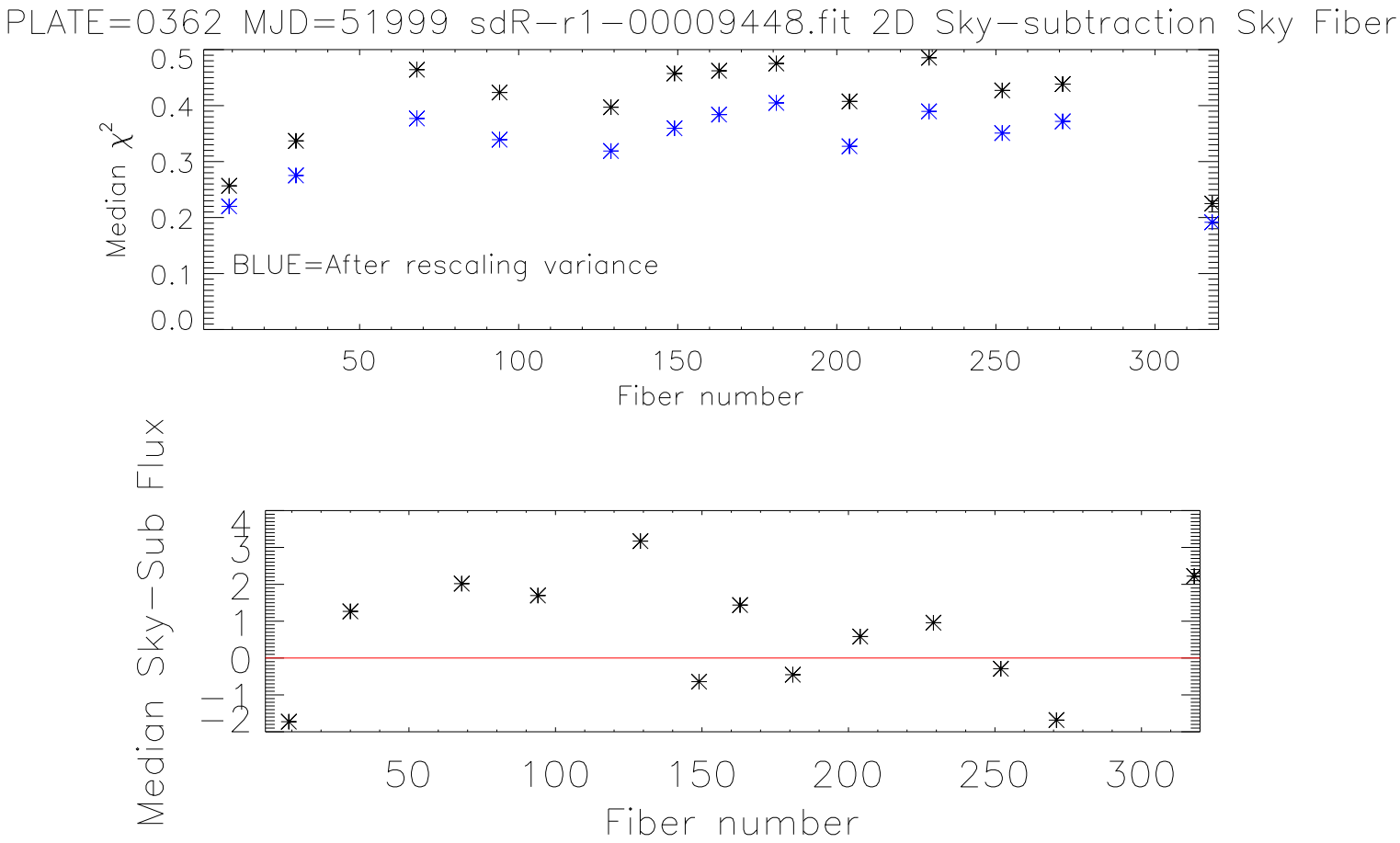
es= −0.0000

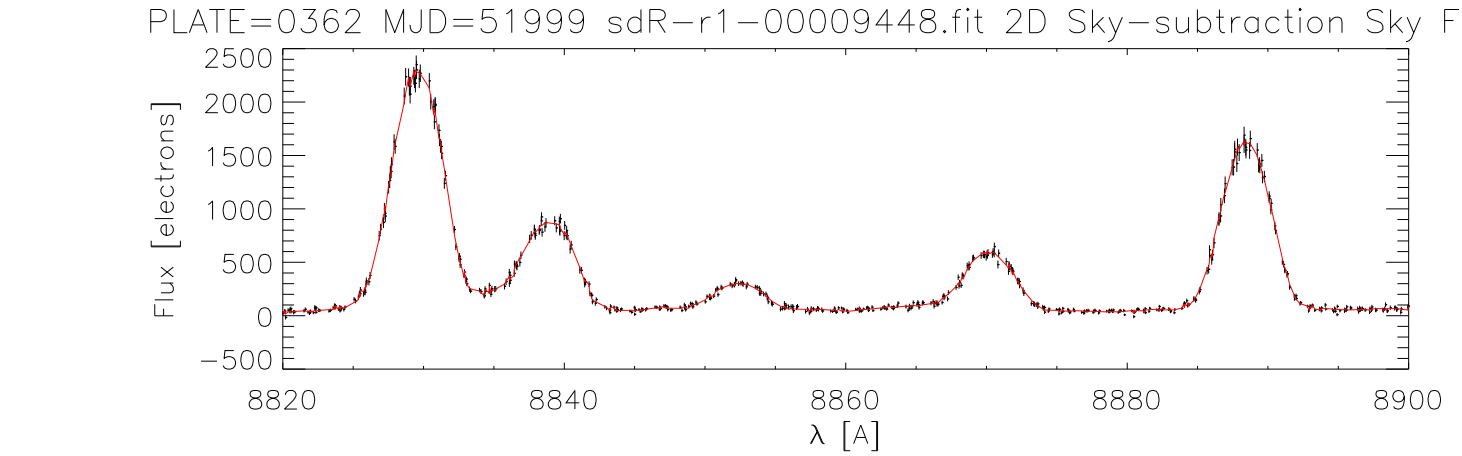

PLATE=0362 MJD=51999 sdR-r1-00009448.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

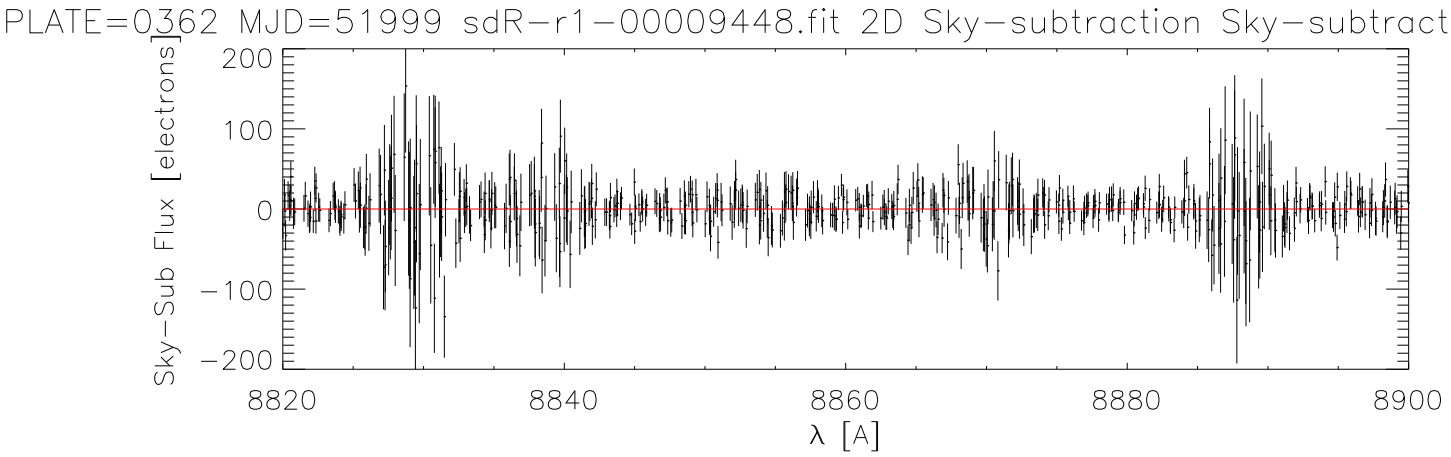

PLATE=0362 MJD=51999 sdR-r1-00009448.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

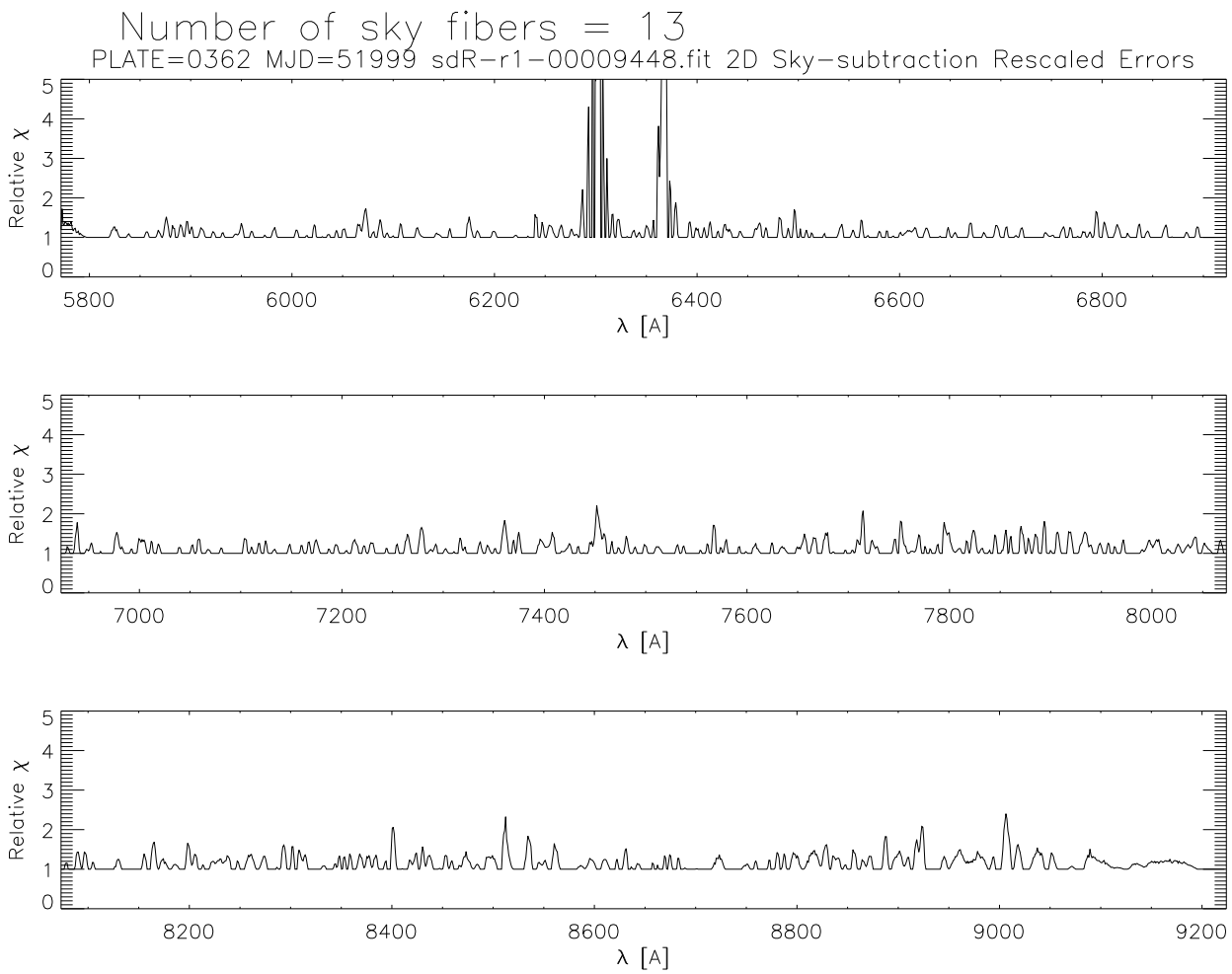

PLATE=0362 MJD=51999 sdR-r1-00009448.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

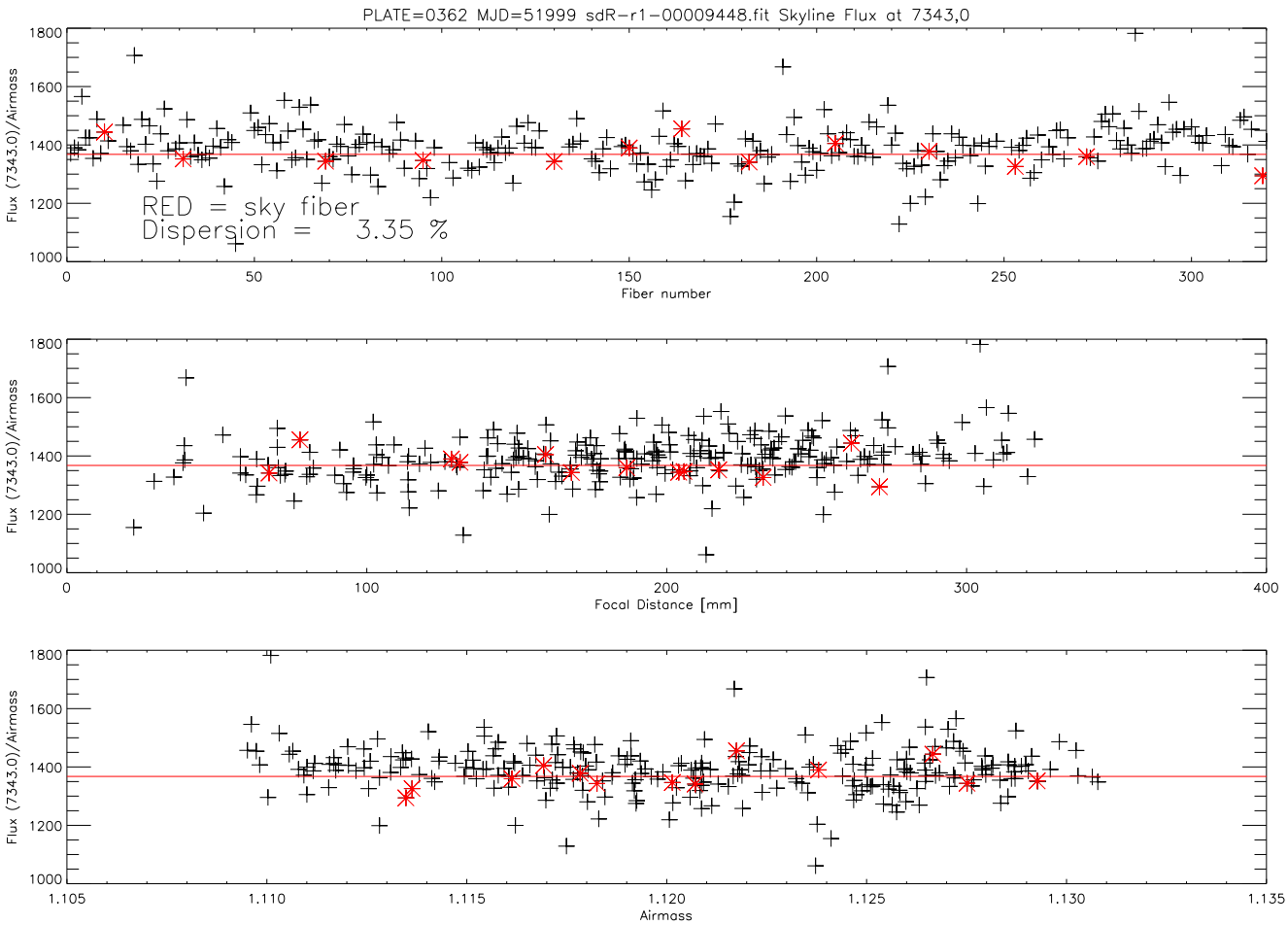

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r1-00009448.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

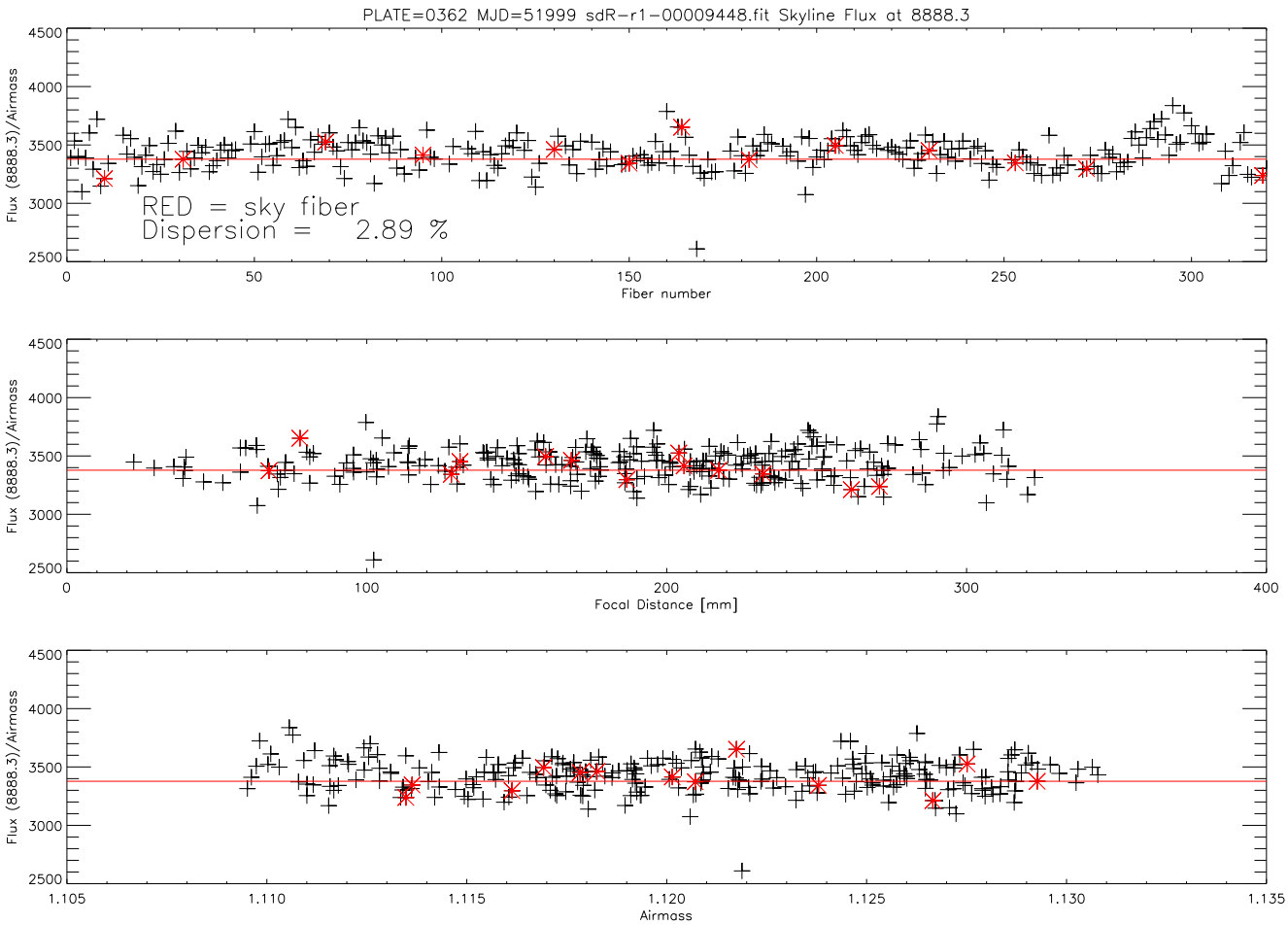

PLATE=0362 MJD=51999 sdR-r1-00009448.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

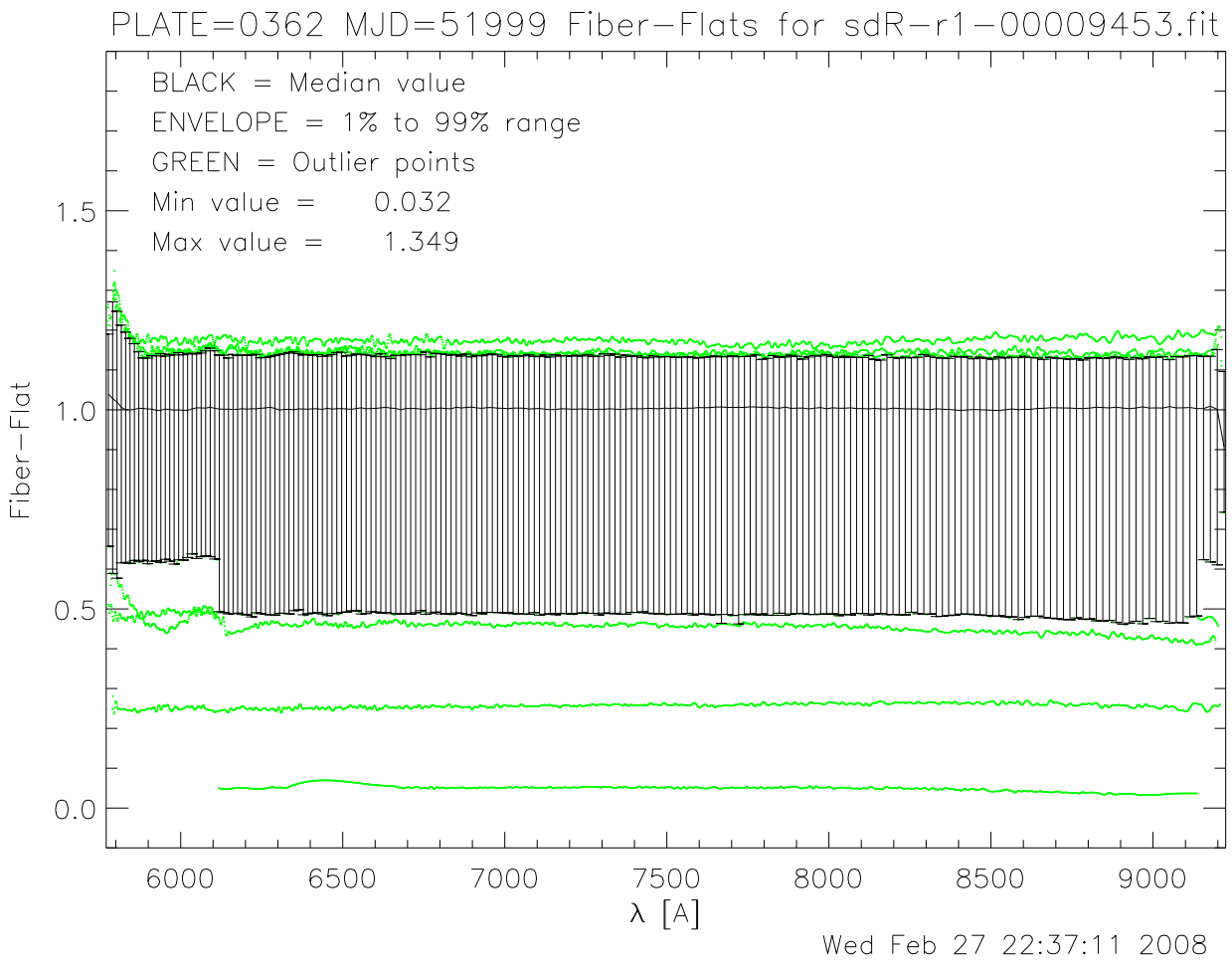

PLATE=0362 MJD=51999 sdR-r1-00009448.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

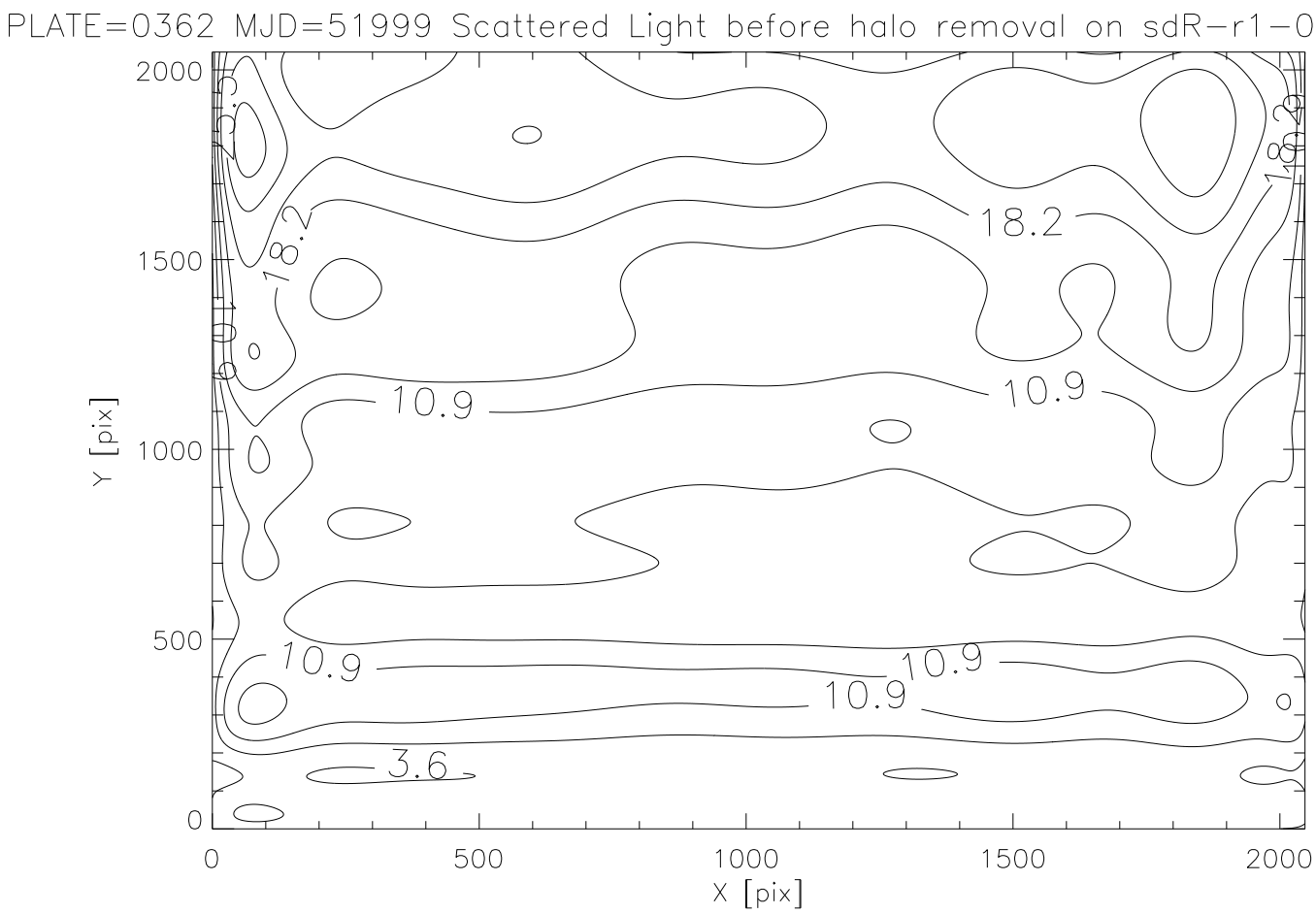

PLATE=0362 MJD=51999 sdR-r1-00009448.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

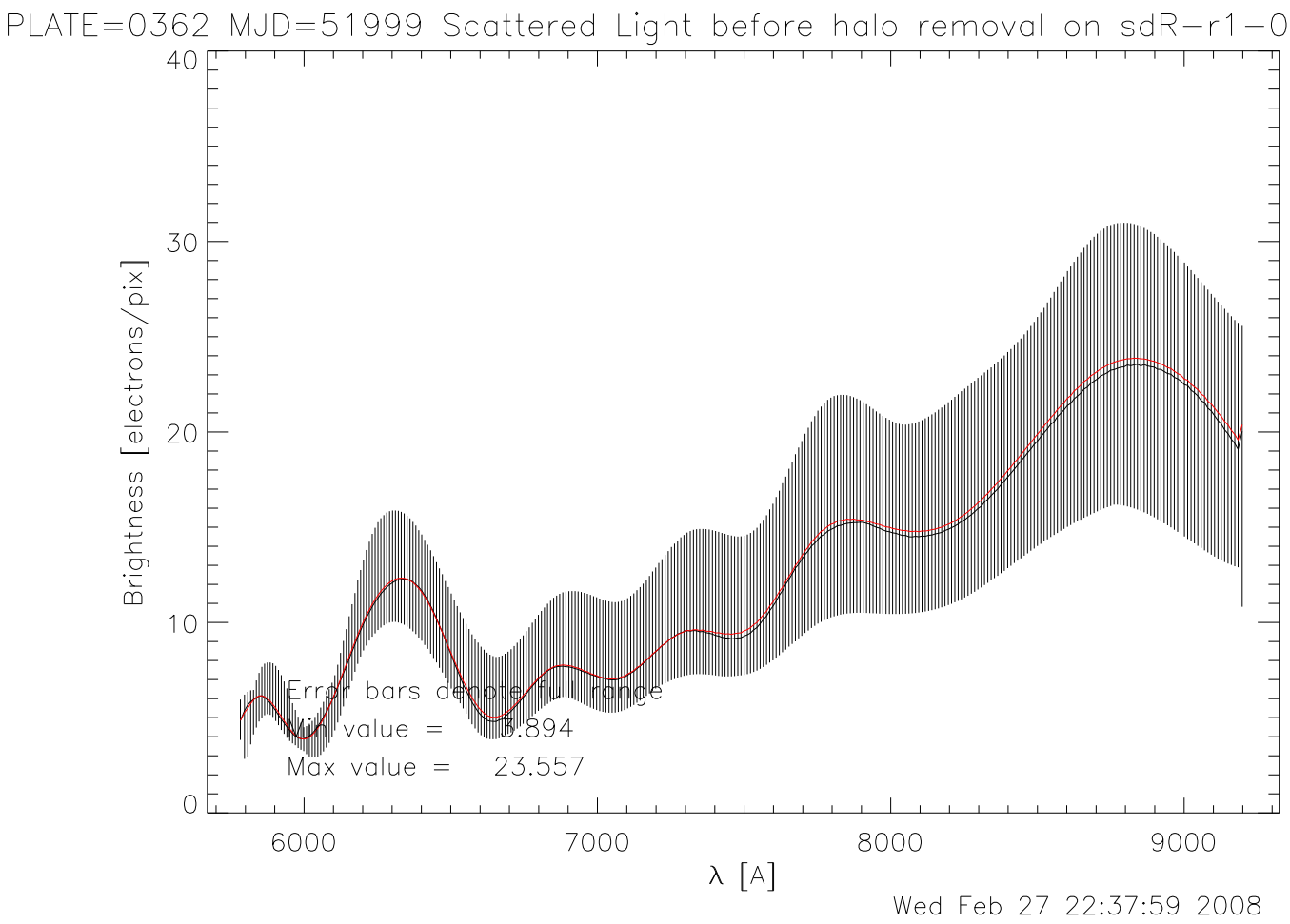

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r1-00009448.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

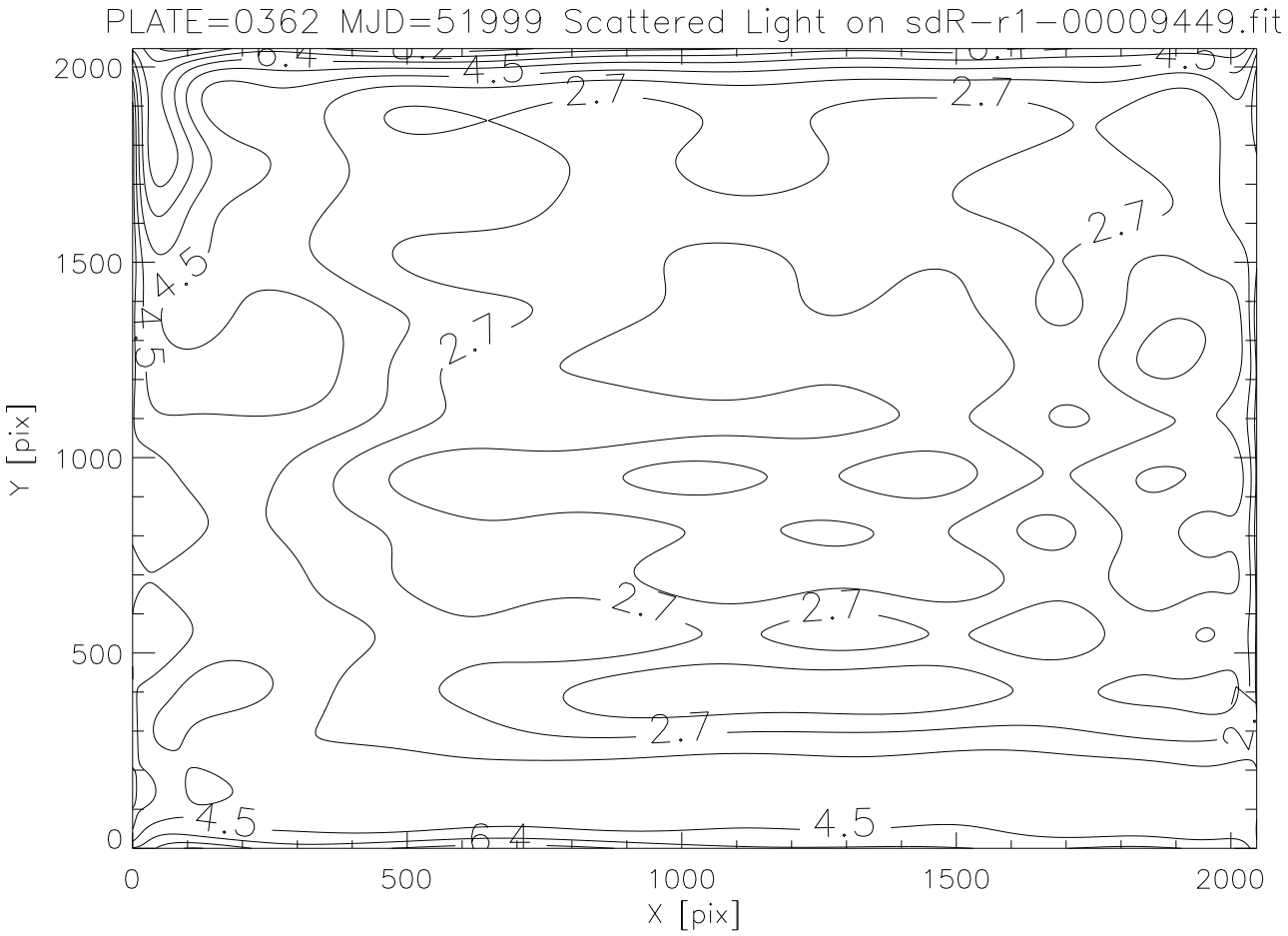

PLATE=0362 MJD=51999 sdR-r1-00009448.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.35 %
Fiber number
Focal Distance [mm]
Airmass

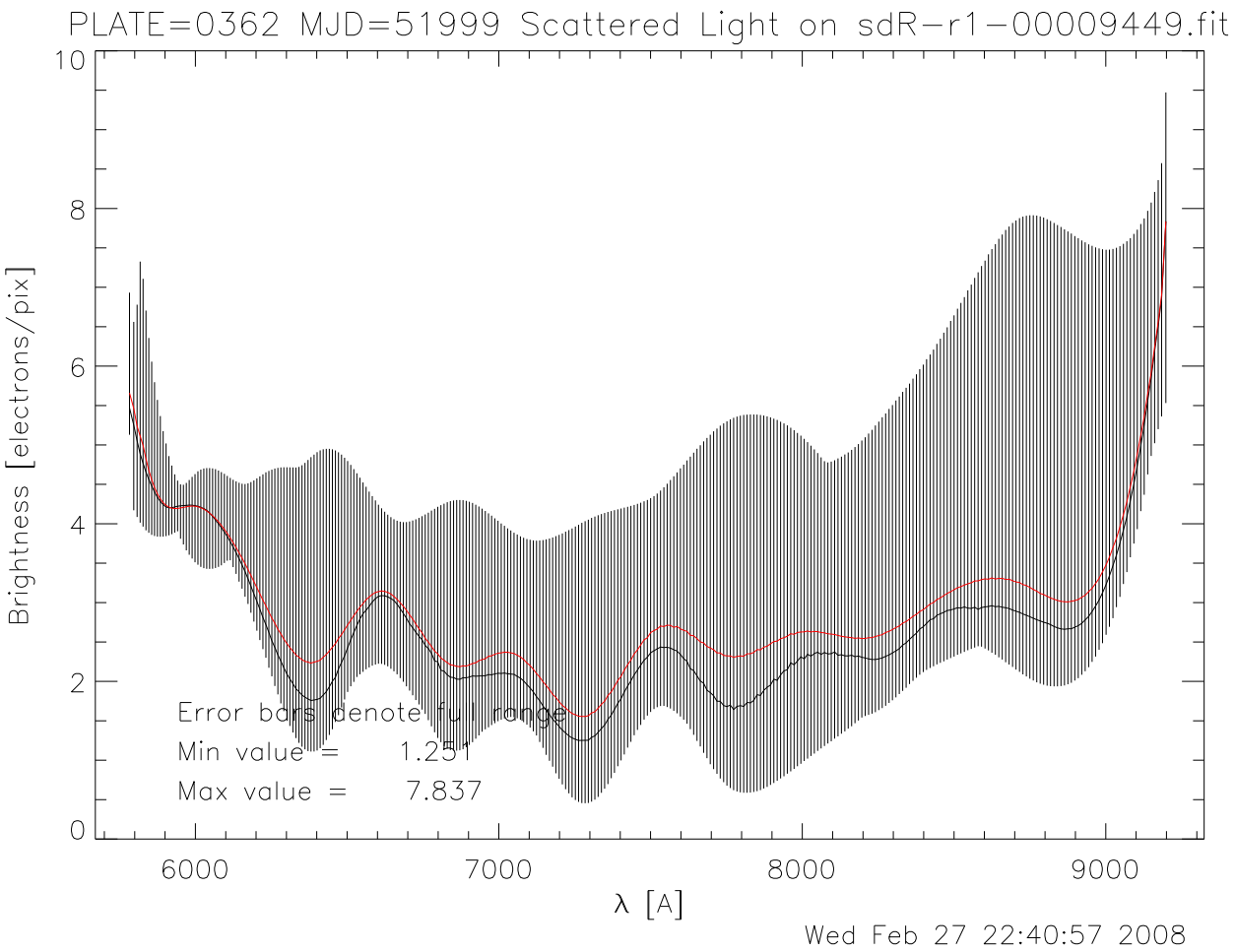

PLATE=0362 MJD=51999 sdR-r1-00009448.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.89 %
Fiber number
Focal Distance [mm]
Airmass

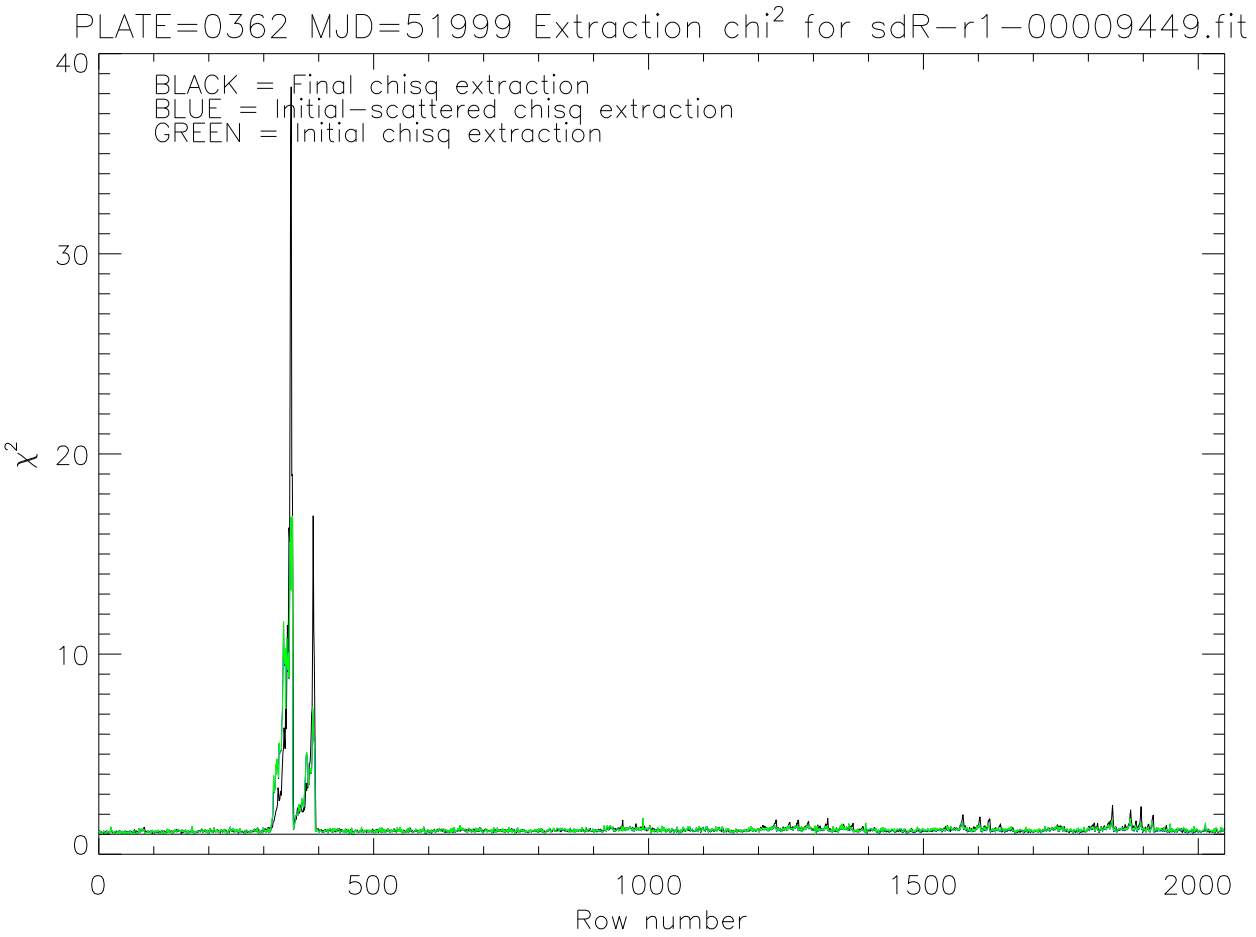

PLATE=0362 MJD=51999 Fiber-Flats for sdR-r1-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.032
Max value = 1.349
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 22:37:11 2008

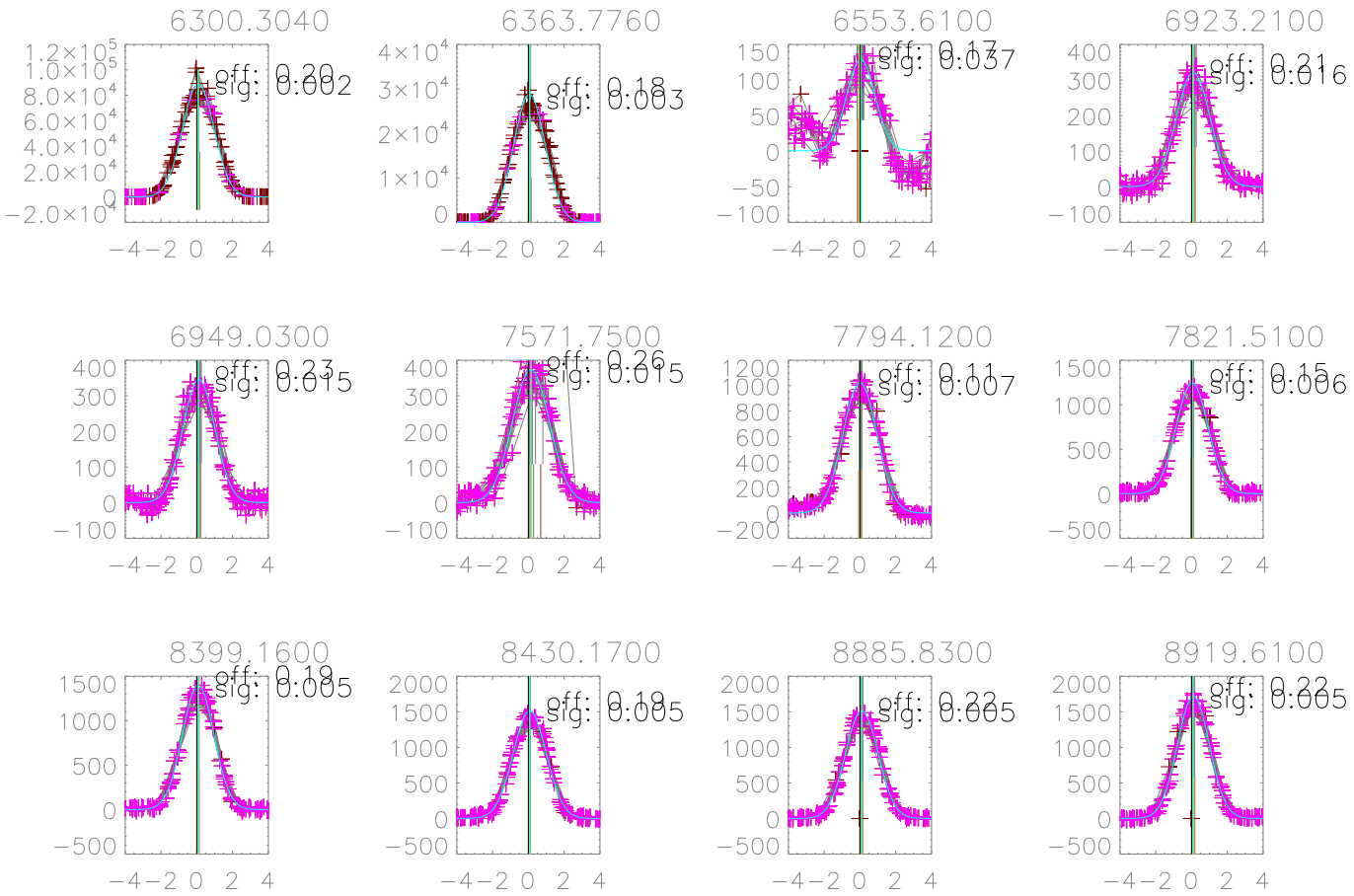

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r1-00009449.fi
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
18.2
10.9
3.6

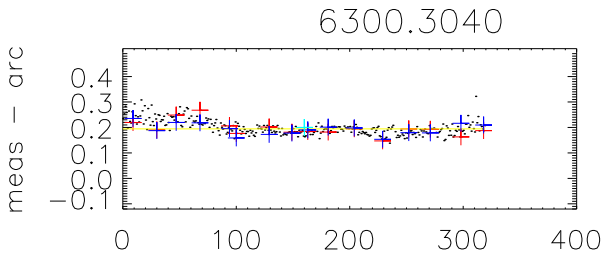

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r1-00009449.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.894
Max value = 23.557
Wed Feb 27 22:37:59 2008

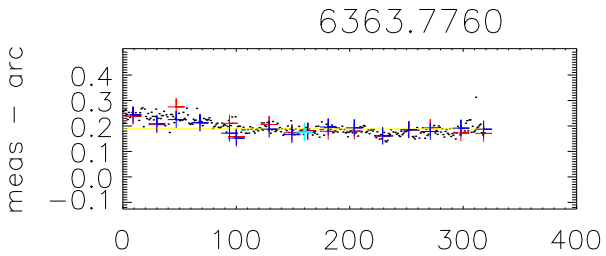

PLATE=0362 MJD=51999 Scattered Light on sdR−r1−00009449.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.4
4.5
2.7

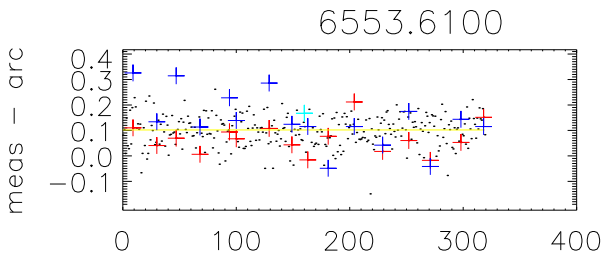

PLATE=0362 MJD=51999 Scattered Light on sdR-r1-00009449.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.251
Max value = 7.837
Wed Feb 27 22:40:57 2008

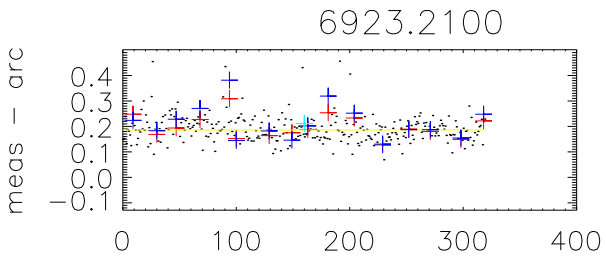

PLATE=0362 MJD=51999 Extraction chi^2 for sdR−r1−00009449.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
10
20
30
40
0
500
1000
1500
2000
Row number

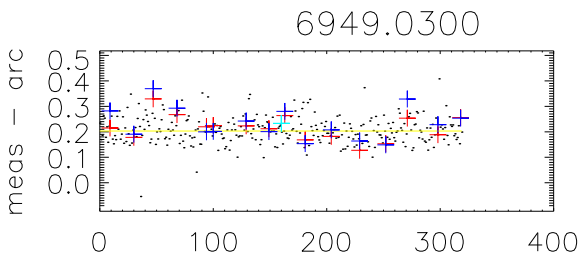

6300.3040
off: 0.20
sig: 0.002
6363.7760
off: 0.18
sig: 0.003
6553.6100
off: 0.17
sig: 0.037
6923.2100
off: 0.21
sig: 0.016
6949.0300
off: 0.23
sig: 0.015
7571.7500
off: 0.26
sig: 0.015
7794.1200
off: 0.11
sig: 0.007
7821.5100
off: 0.15
sig: 0.006
8399.1600
off: 0.18
sig: 0.005
8430.1700
off: 0.18
sig: 0.005
8885.8300
off: 0.22
sig: 0.005
8919.6100
off: 0.22
sig: 0.005

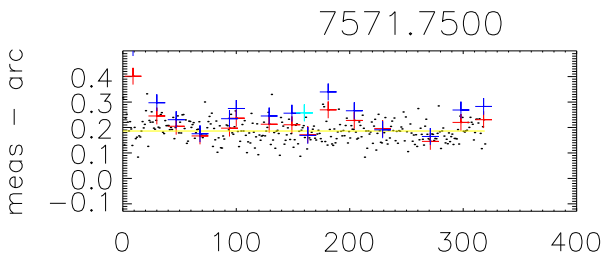

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

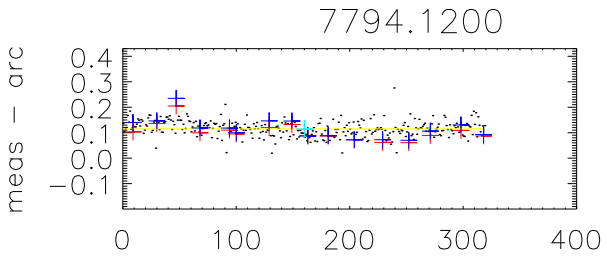

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

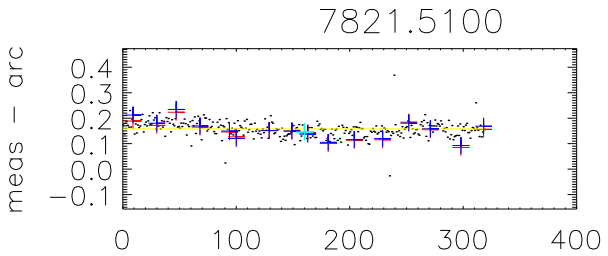

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

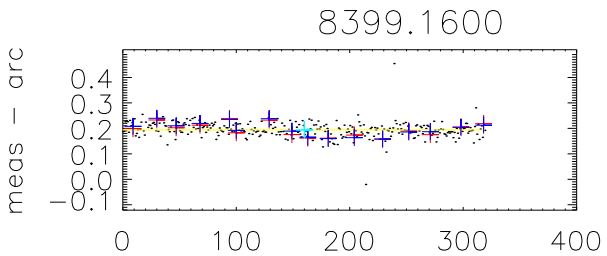

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

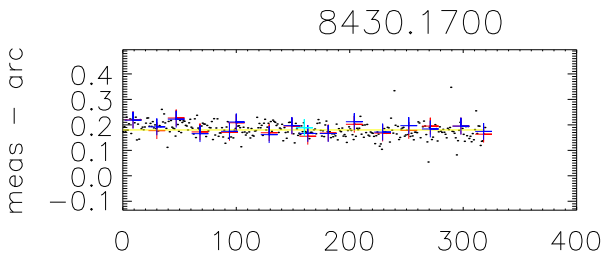

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

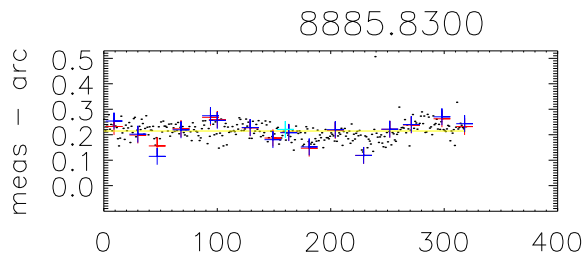

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

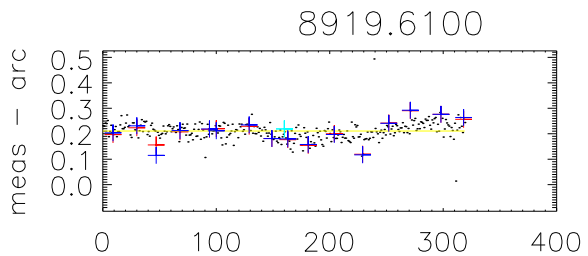

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

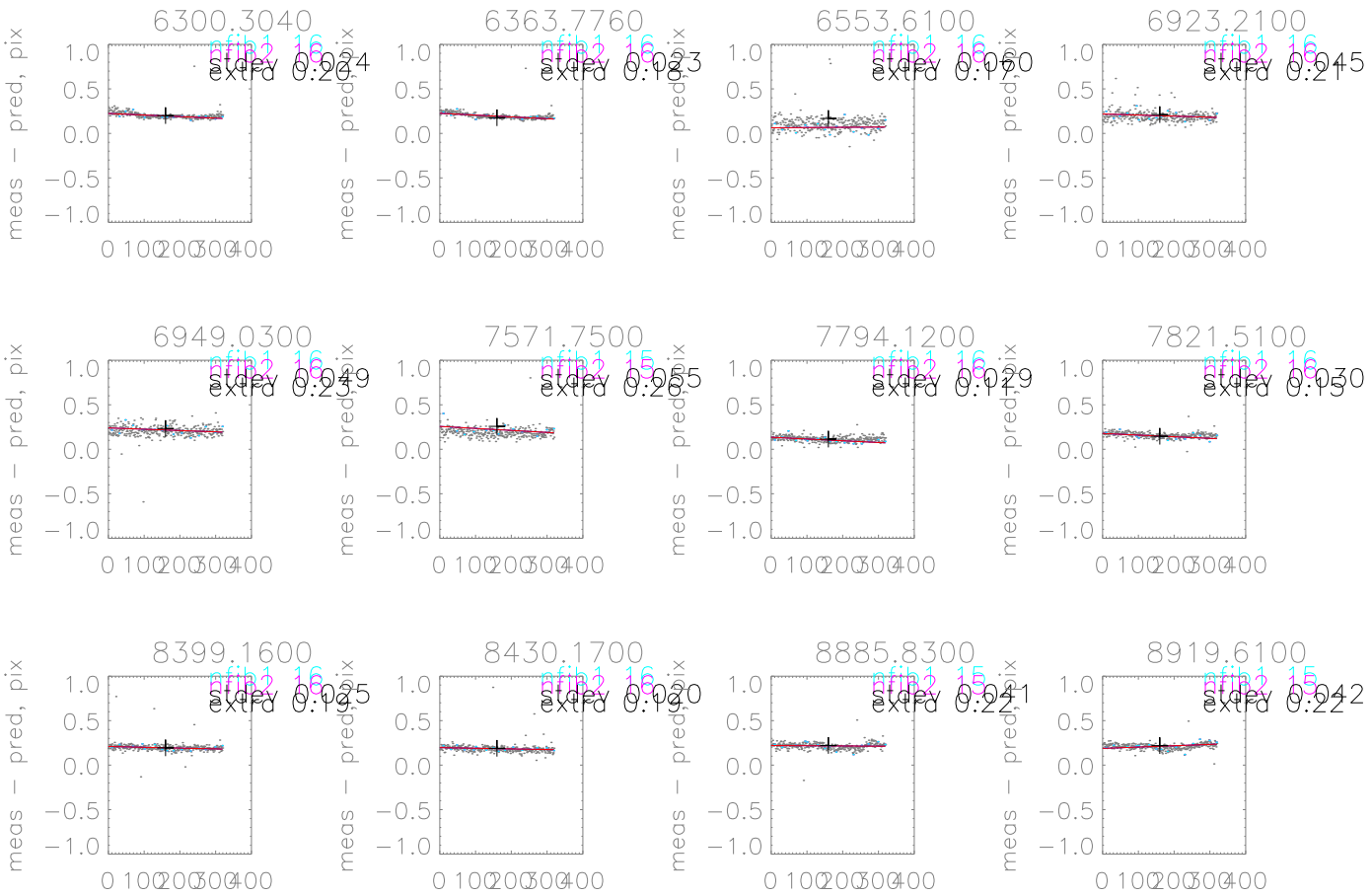

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

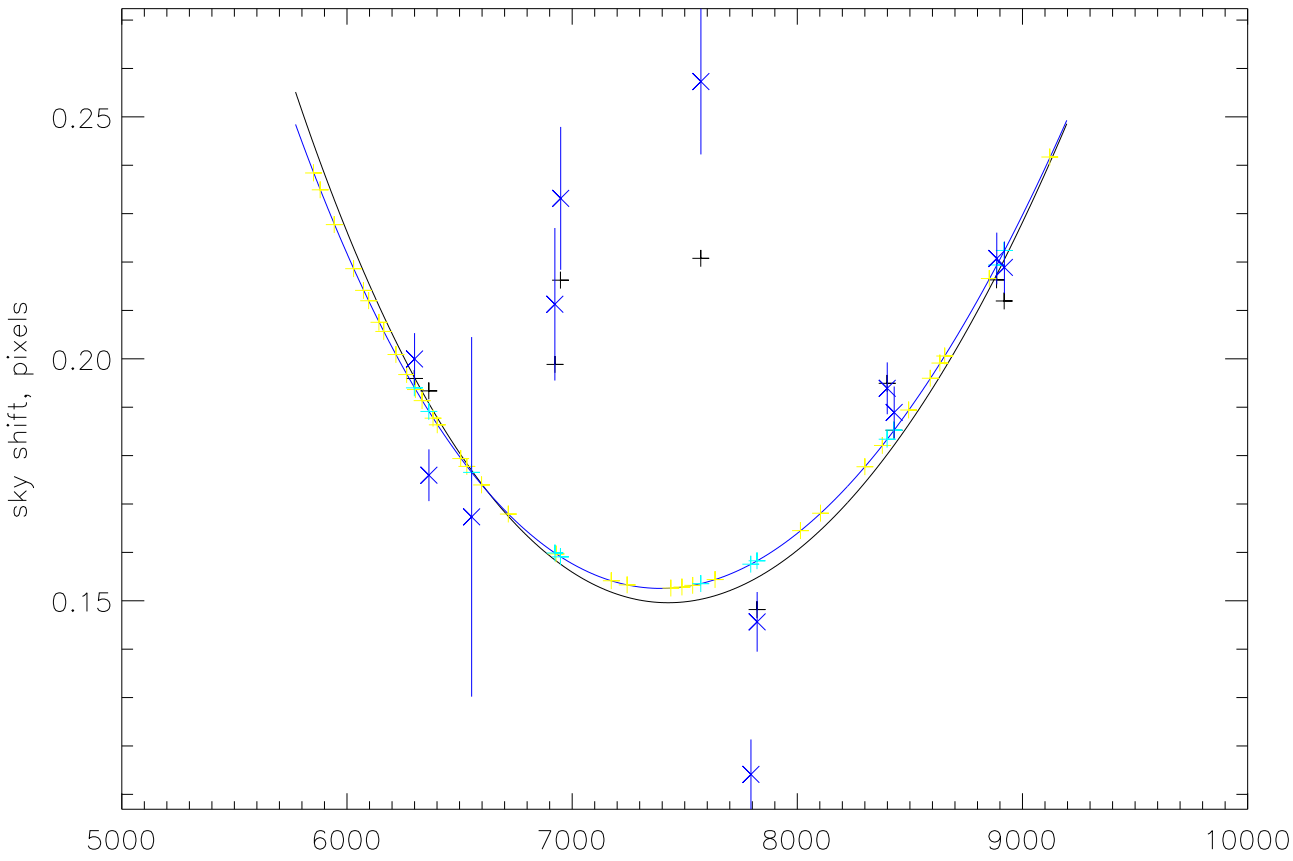

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

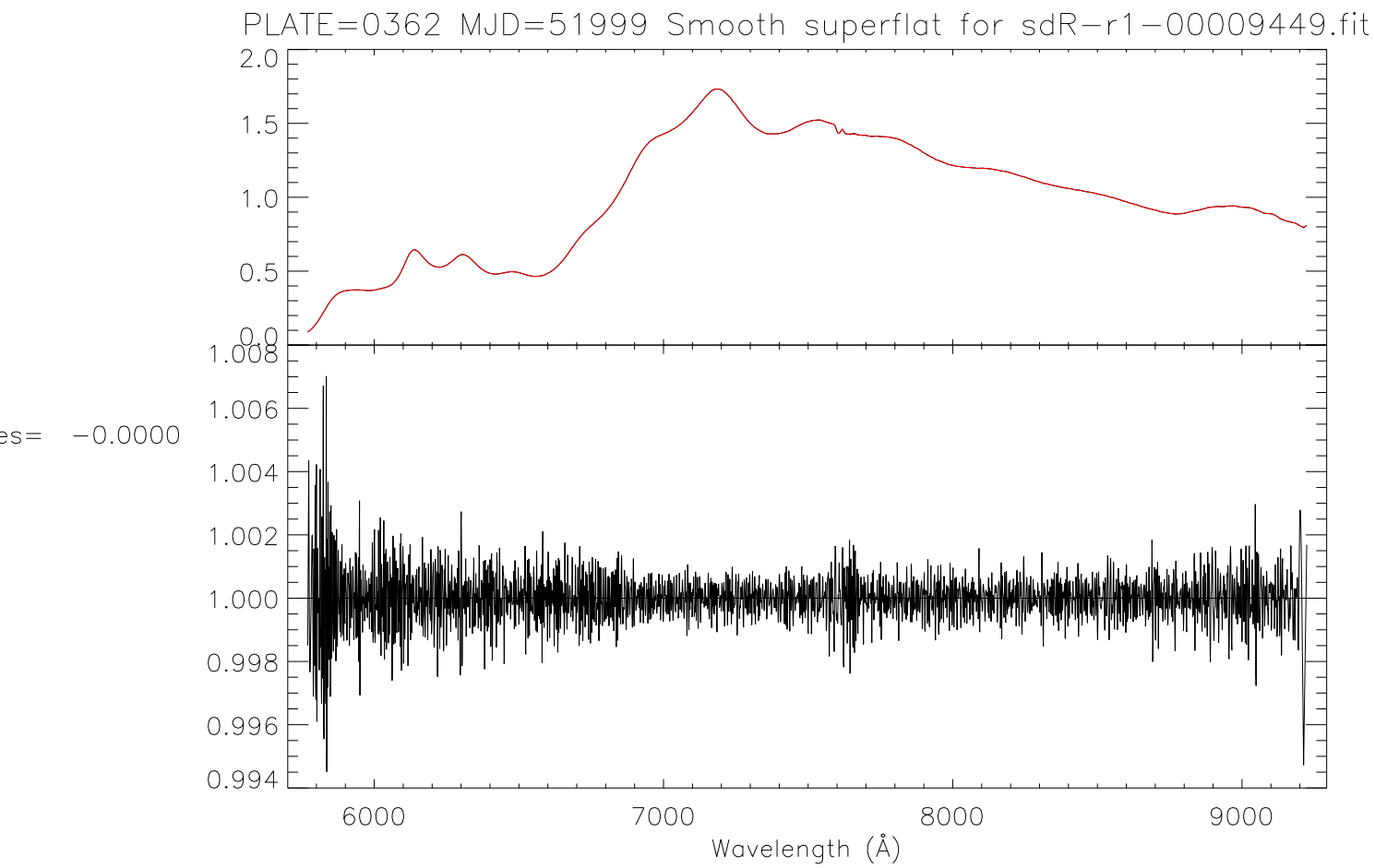

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

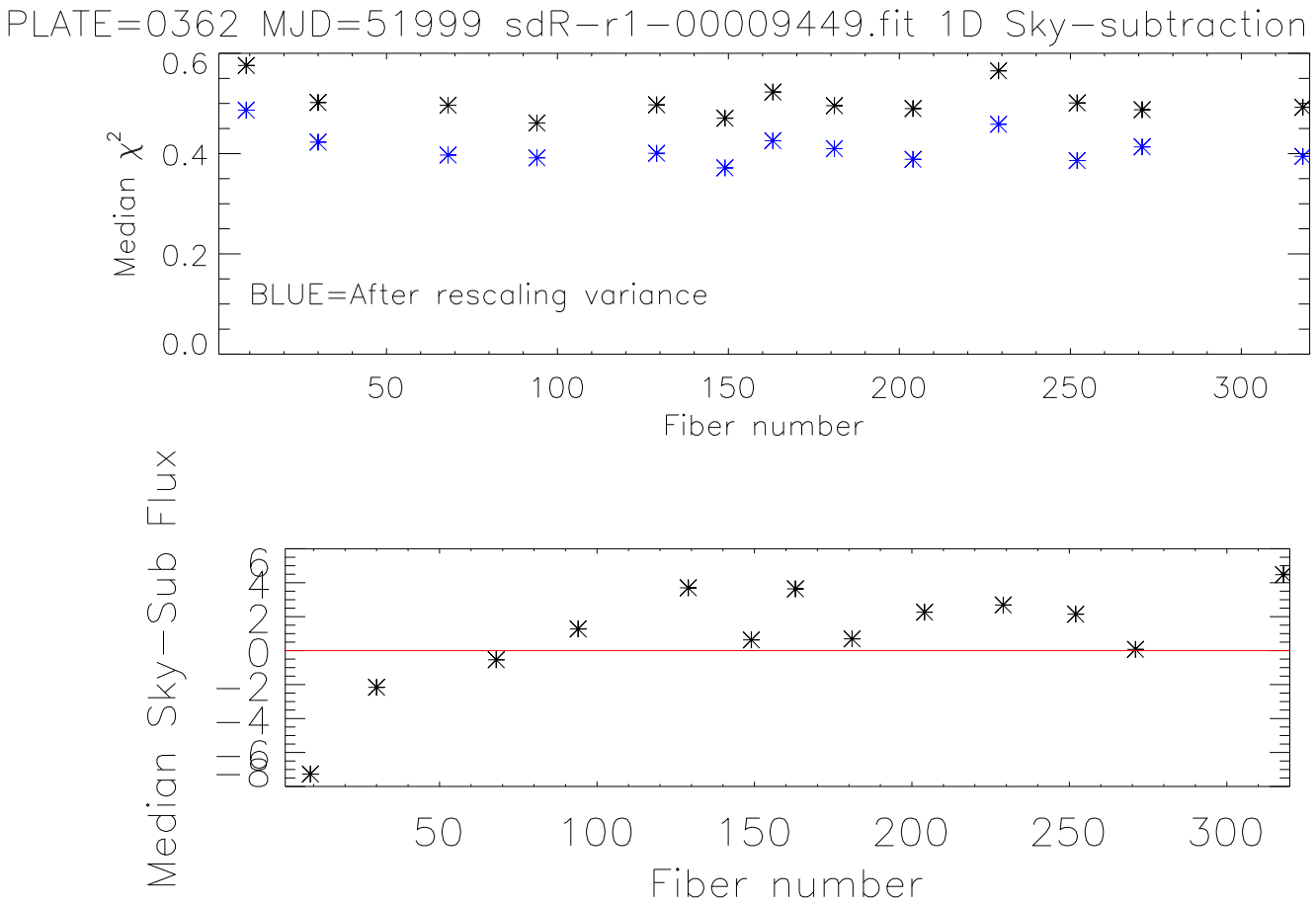

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

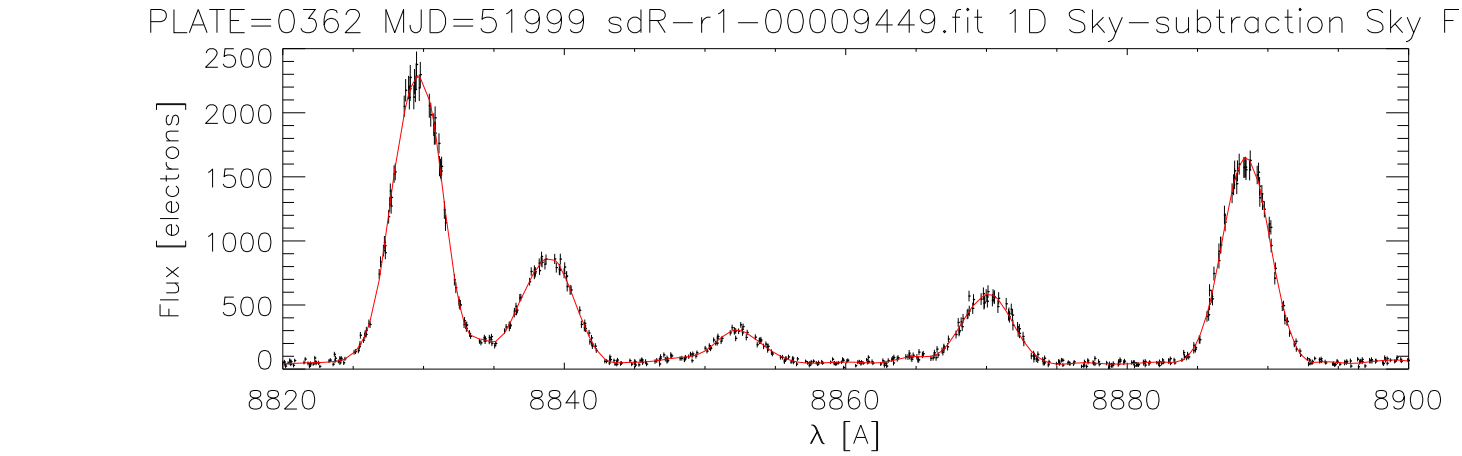

6300.3040
stdev 0.024
extra 0.26
6363.7760
stdev 0.023
extra 0.18
6553.6100
stdev 0.060
extra 0.17
6923.2100
stdev 0.045
extra 0.21
6949.0300
stdev 0.049
extra 0.23
7571.7500
stdev 0.055
extra 0.26
7794.1200
stdev 0.029
extra 0.17
7821.5100
stdev 0.030
extra 0.15
8399.1600
stdev 0.025
extra 0.19
8430.1700
stdev 0.020
extra 0.19
8885.8300
stdev 0.041
extra 0.22
8919.6100
stdev 0.042
extra 0.22
meas − pred, pix

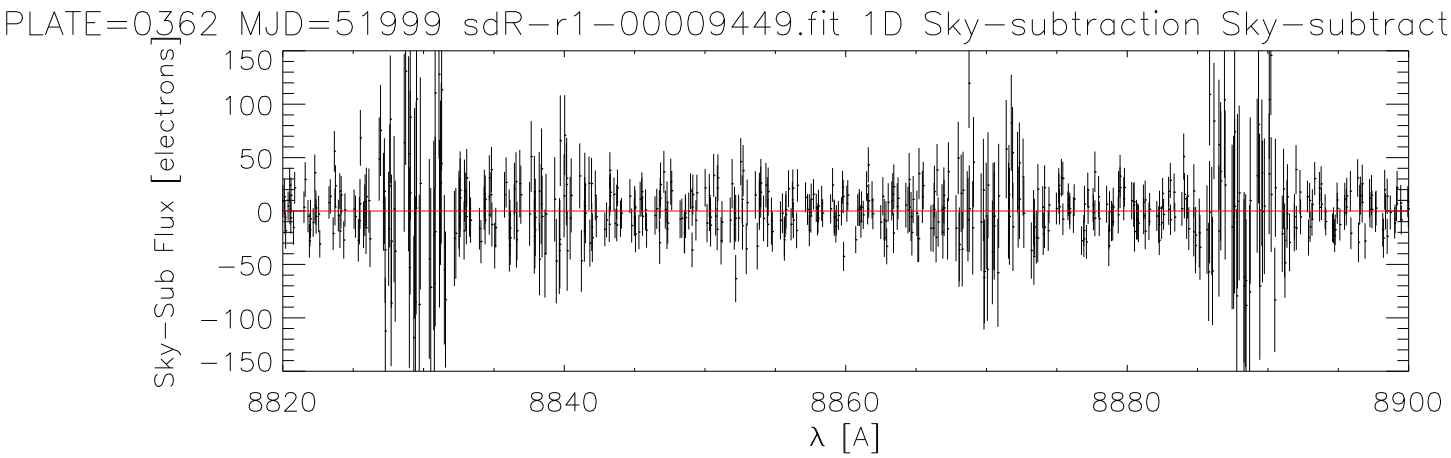

0.25
0.20
0.15
sky shift, pixels
5000
6000
7000
8000
9000
10000

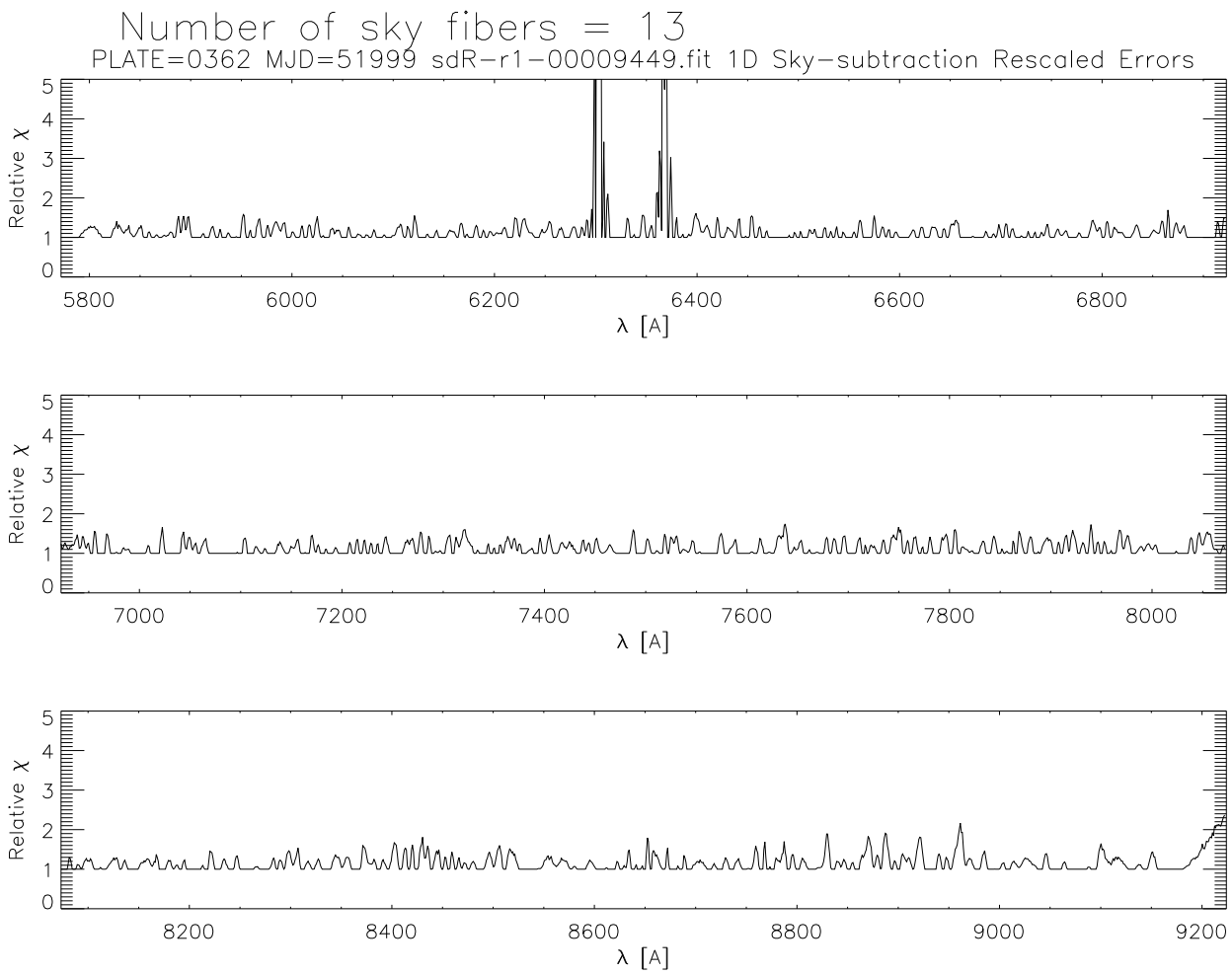

PLATE=0362 MJD=51999 Smooth superflat for sdR-r1-00009449.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

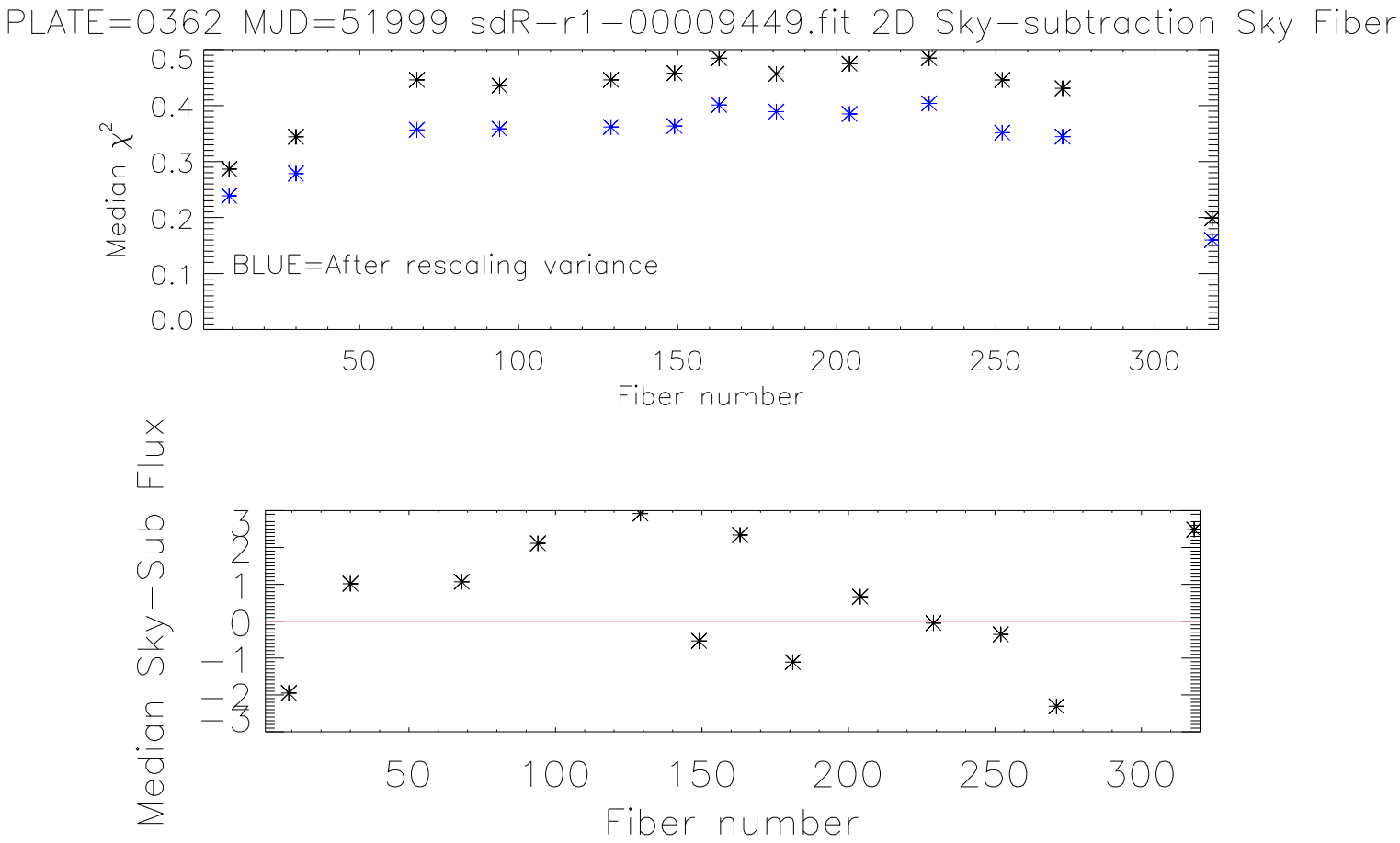
es= −0.0000

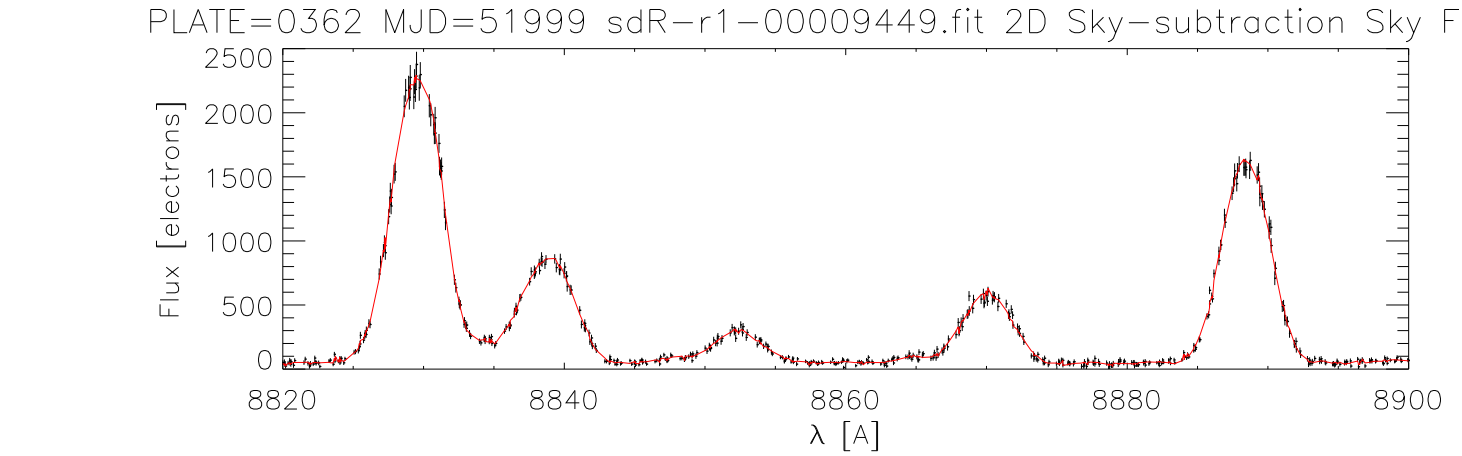

PLATE=0362 MJD=51999 sdR-r1-00009449.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-0.6
-0.4
-0.2
0.0
0.2
0.4
0.6
50
100
150
200
250
300
Fiber number

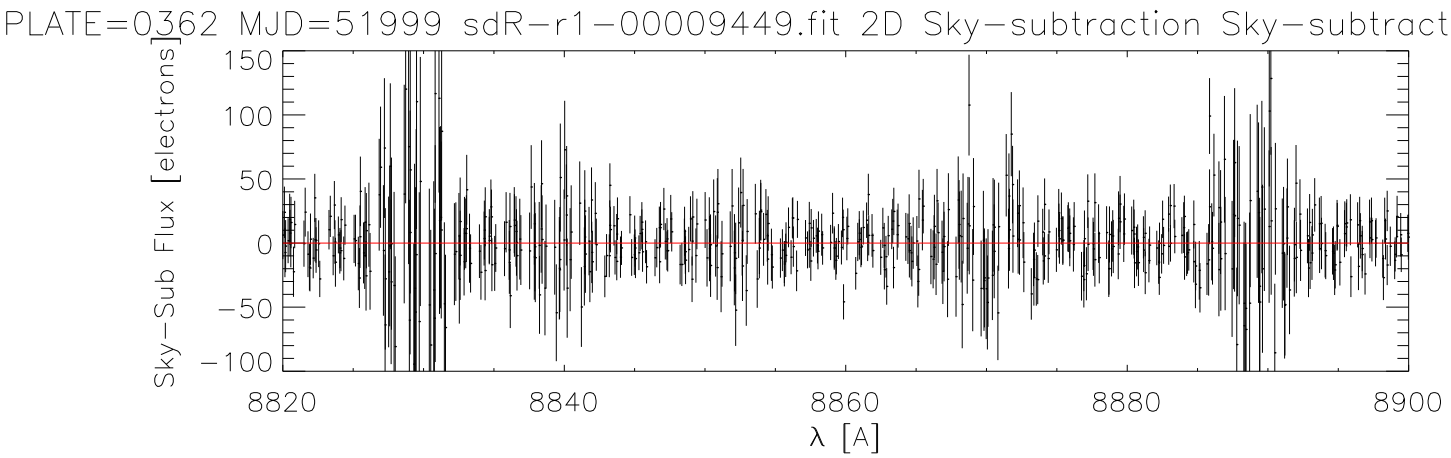

PLATE=0362 MJD=51999 sdR-r1-00009449.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

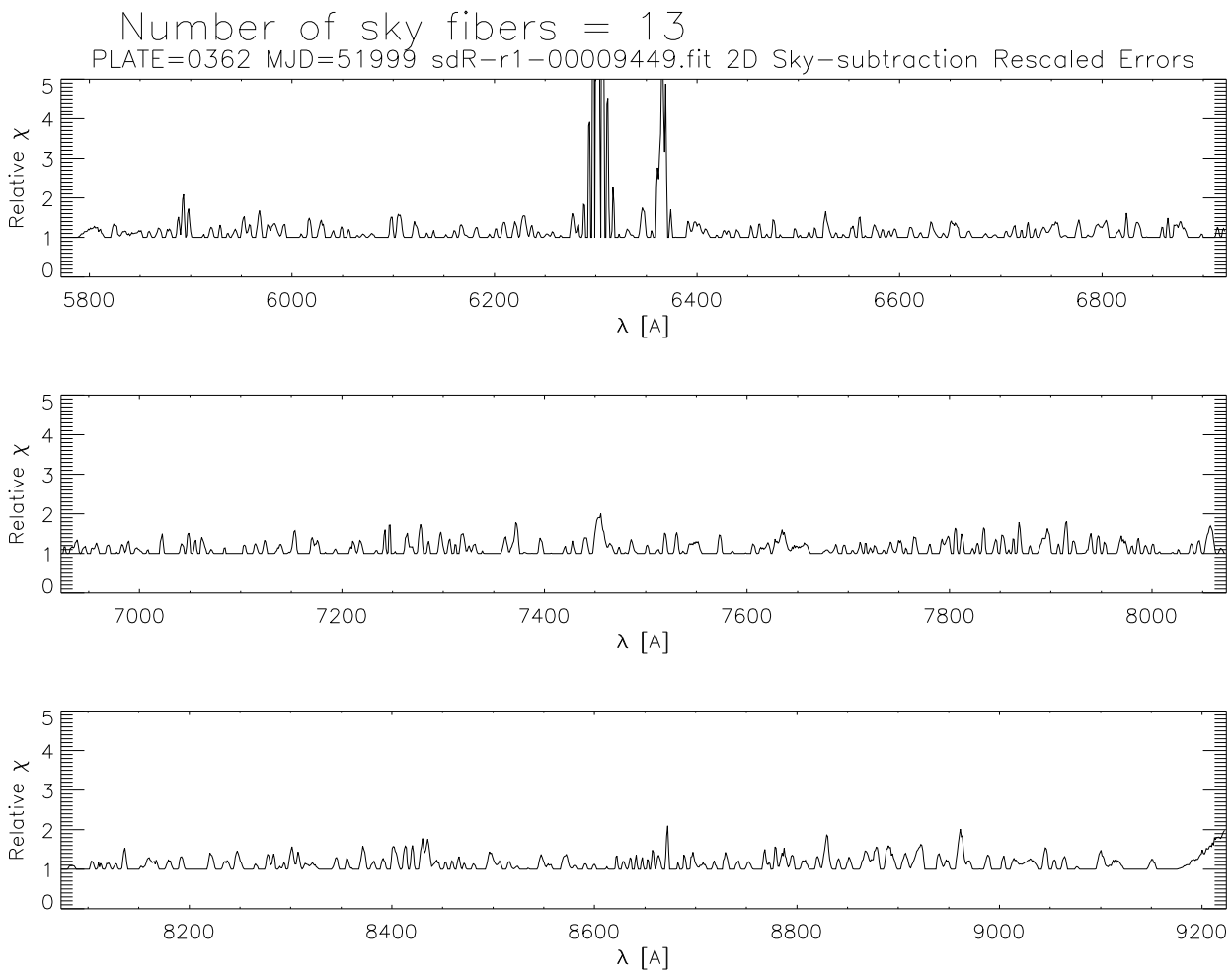

PLATE=0362 MJD=51999 sdR-r1-00009449.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
8820
8840
8860
8880
8900
λ [A]

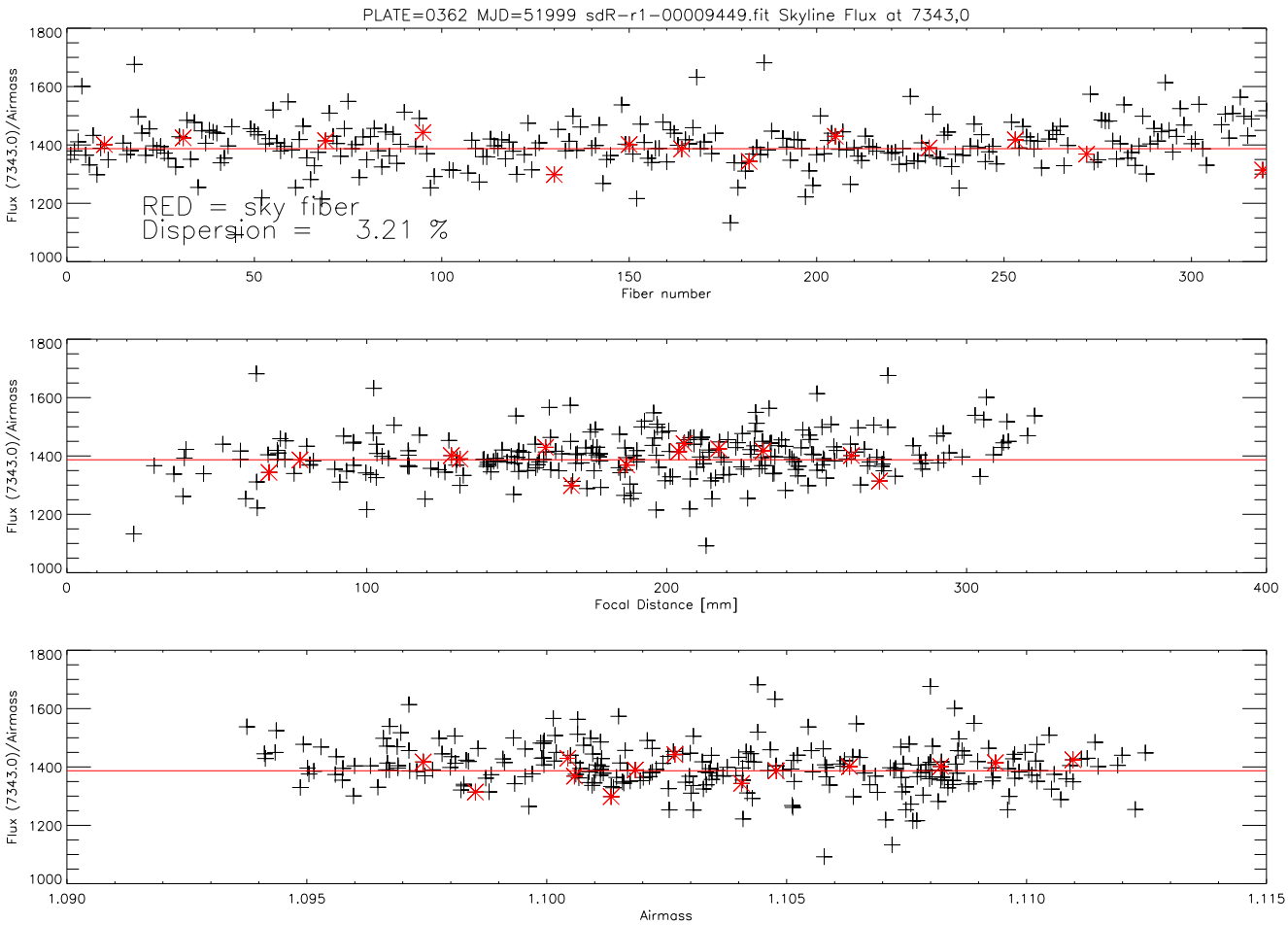

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r1-00009449.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

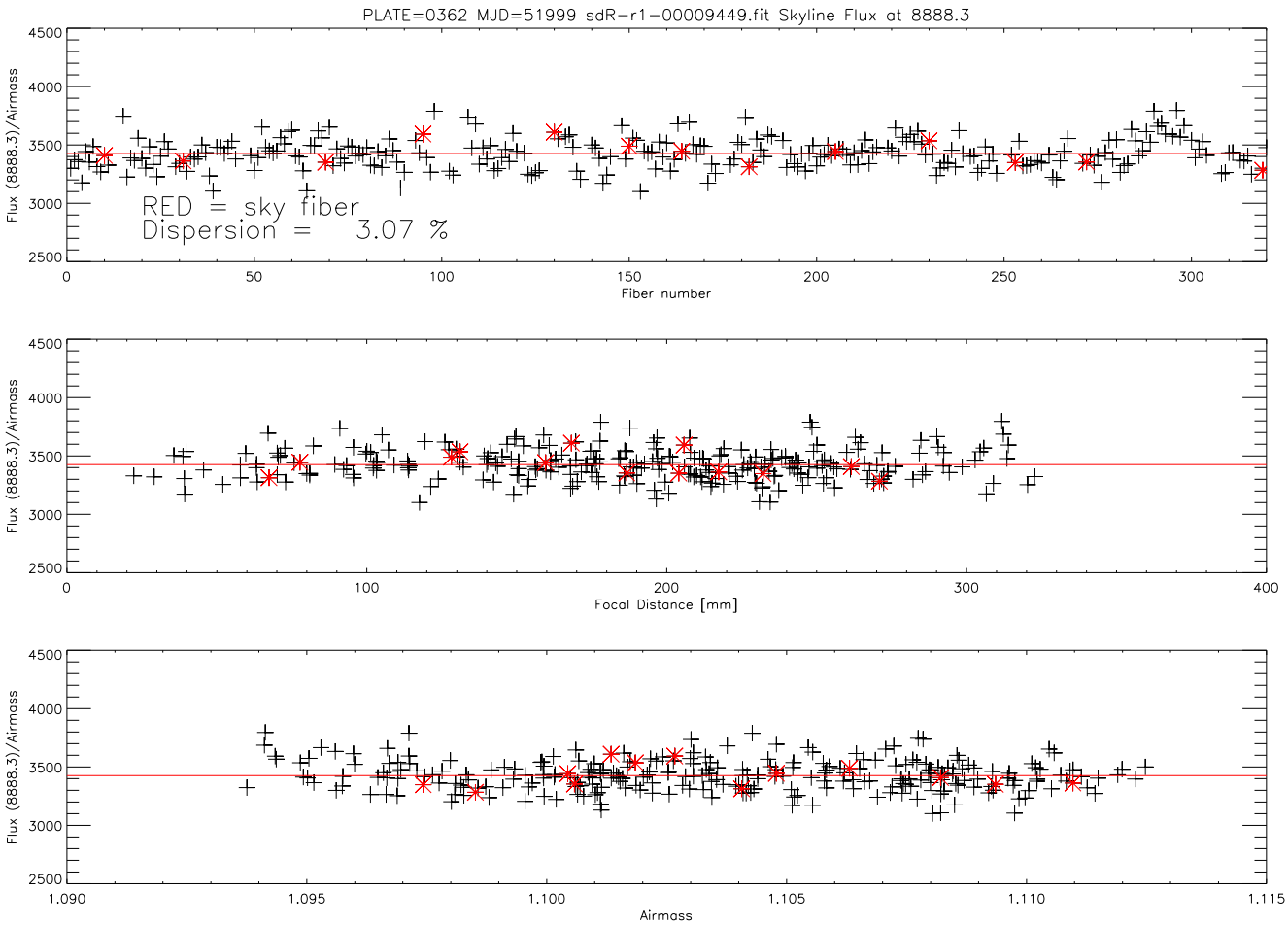

PLATE=0362 MJD=51999 sdR-r1-00009449.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

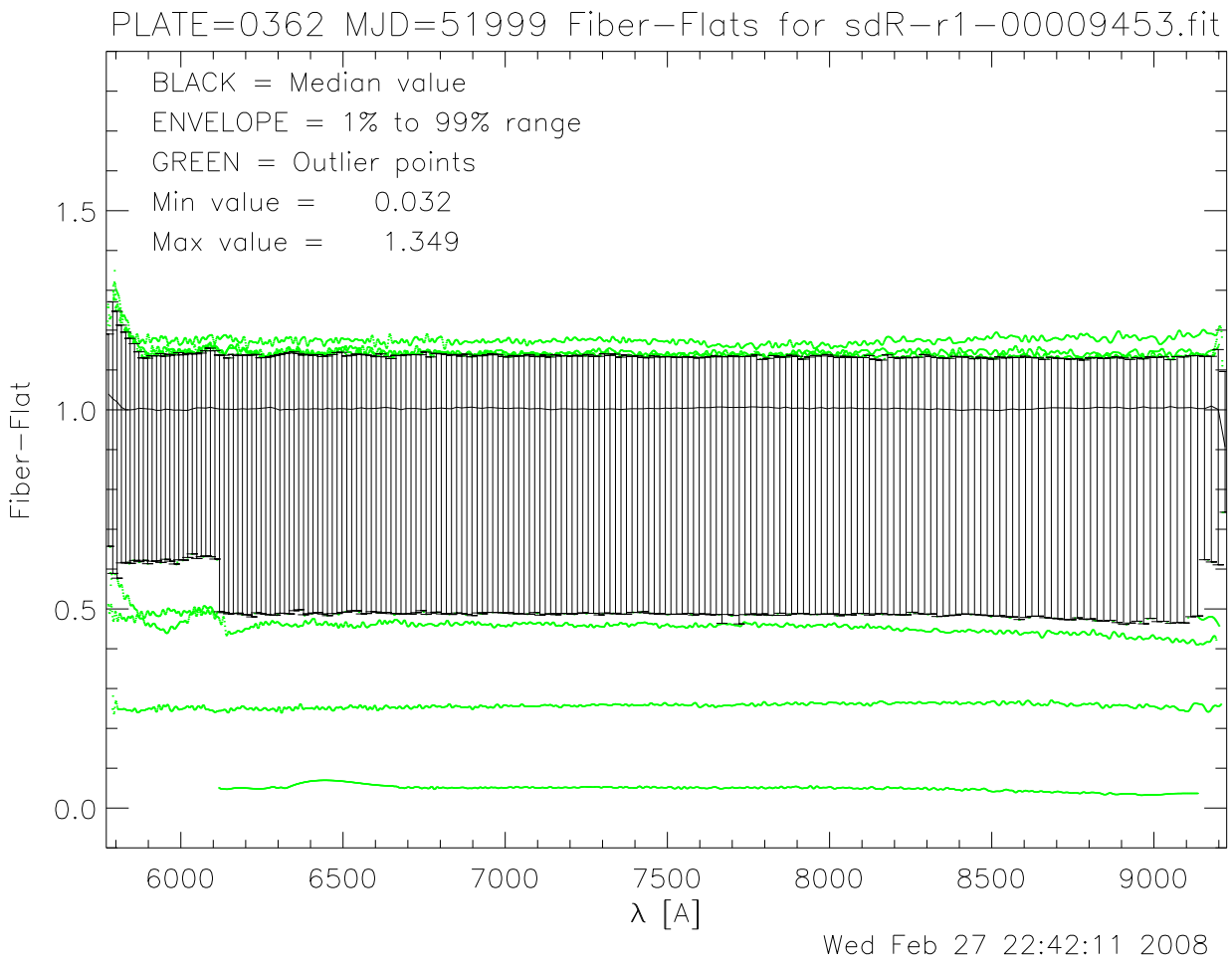

PLATE=0362 MJD=51999 sdR-r1-00009449.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

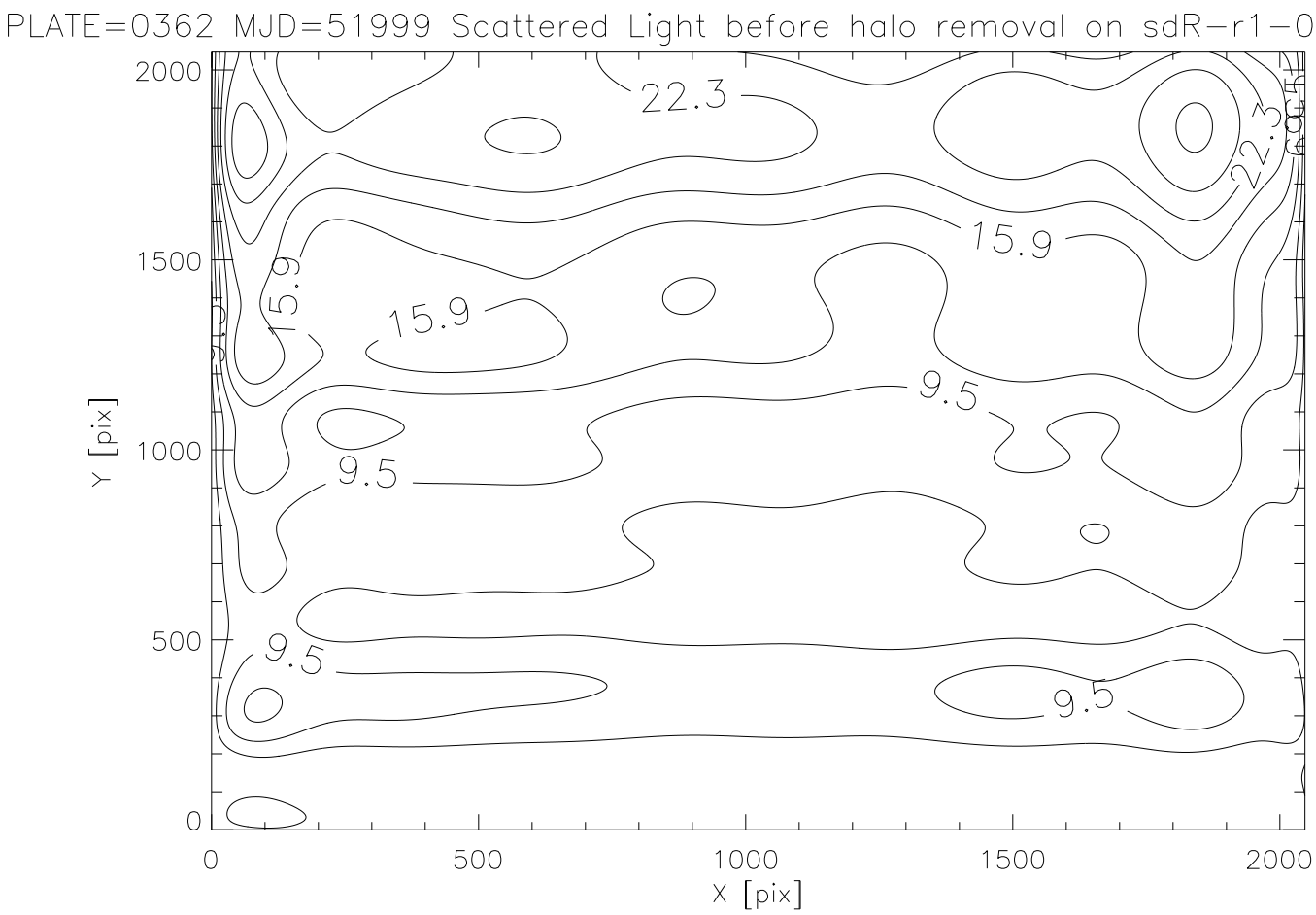

PLATE=0362 MJD=51999 sdR-r1-00009449.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

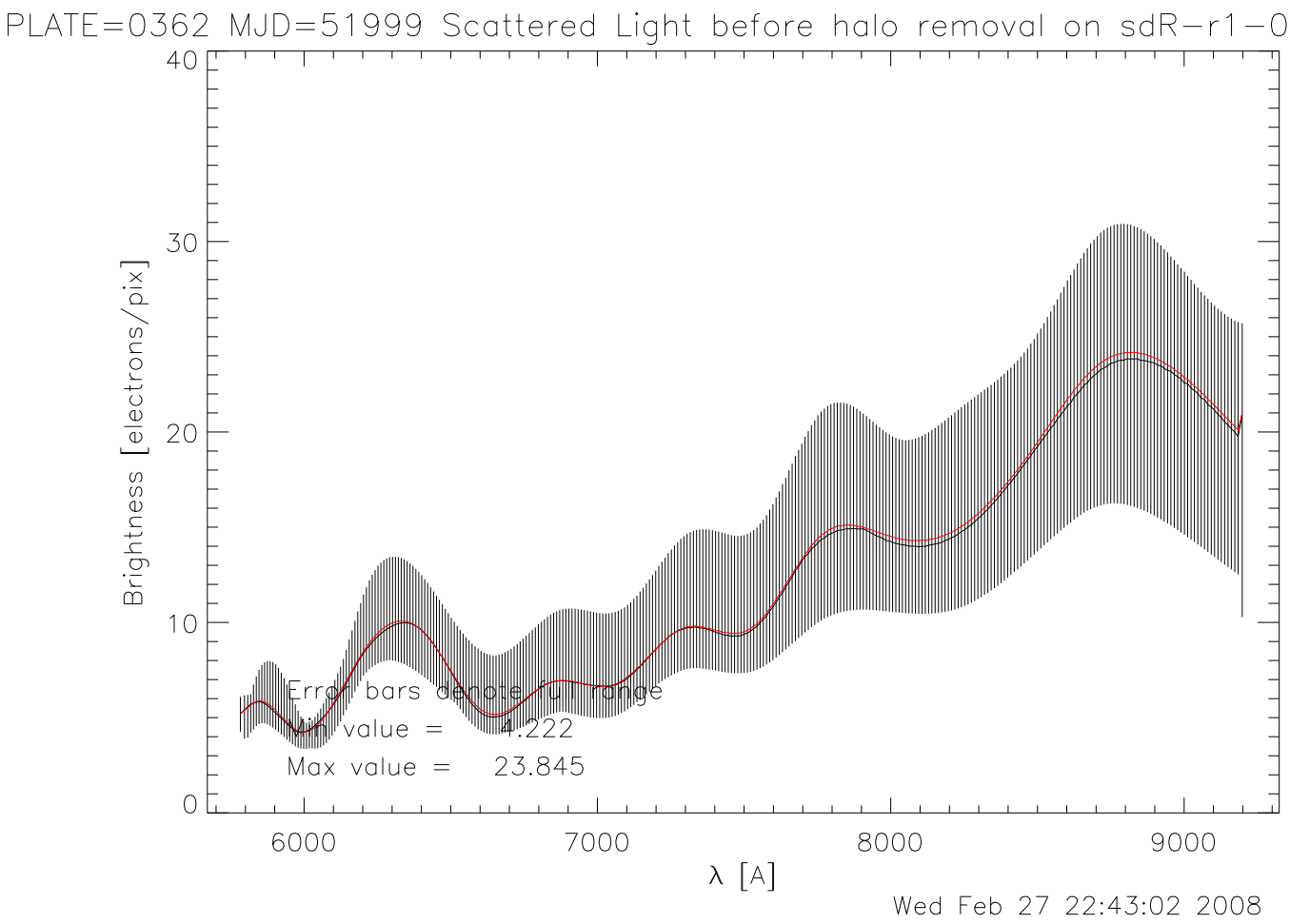

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r1-00009449.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

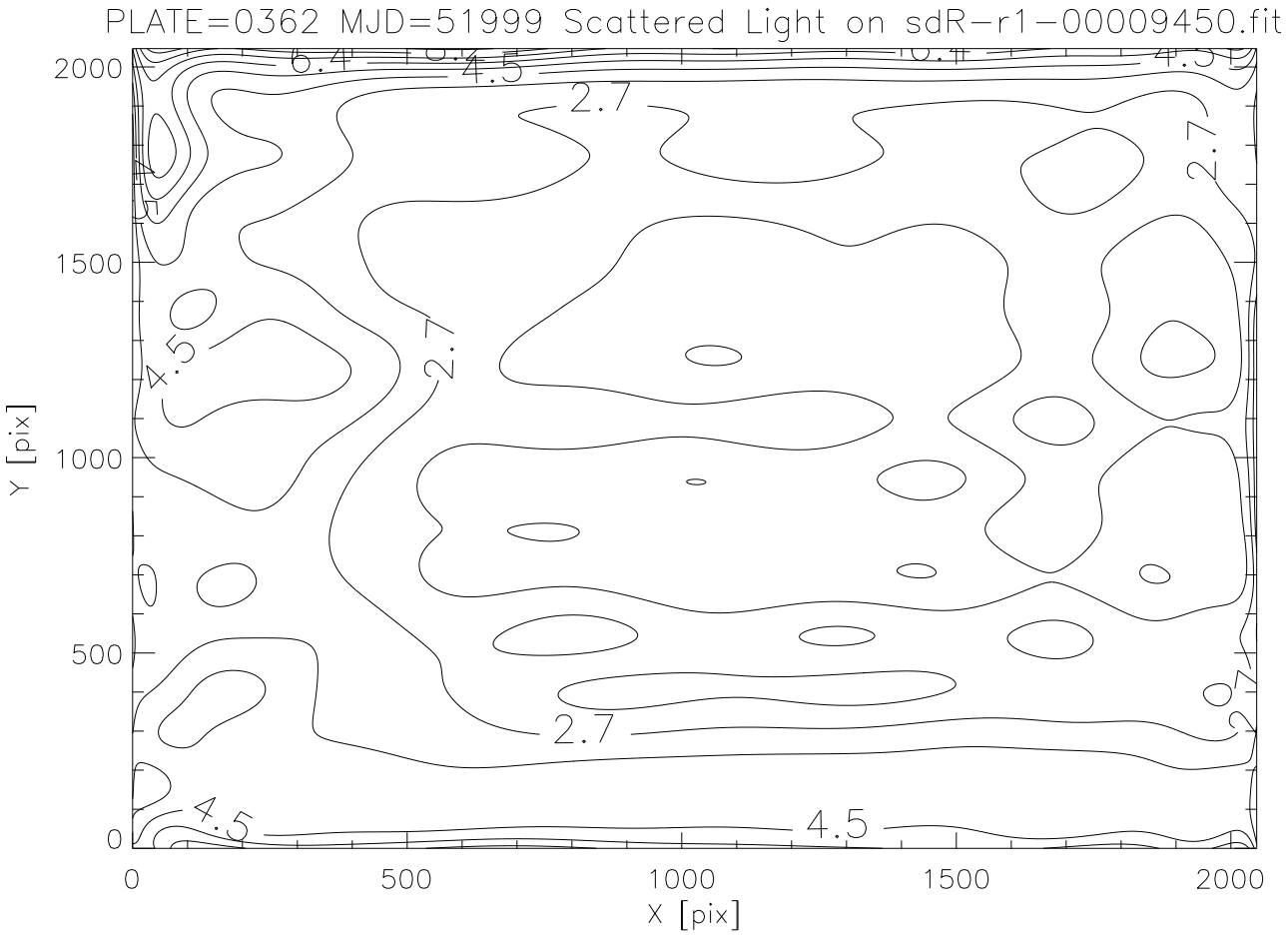

PLATE=0362 MJD=51999 sdR-r1-00009449.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.21 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

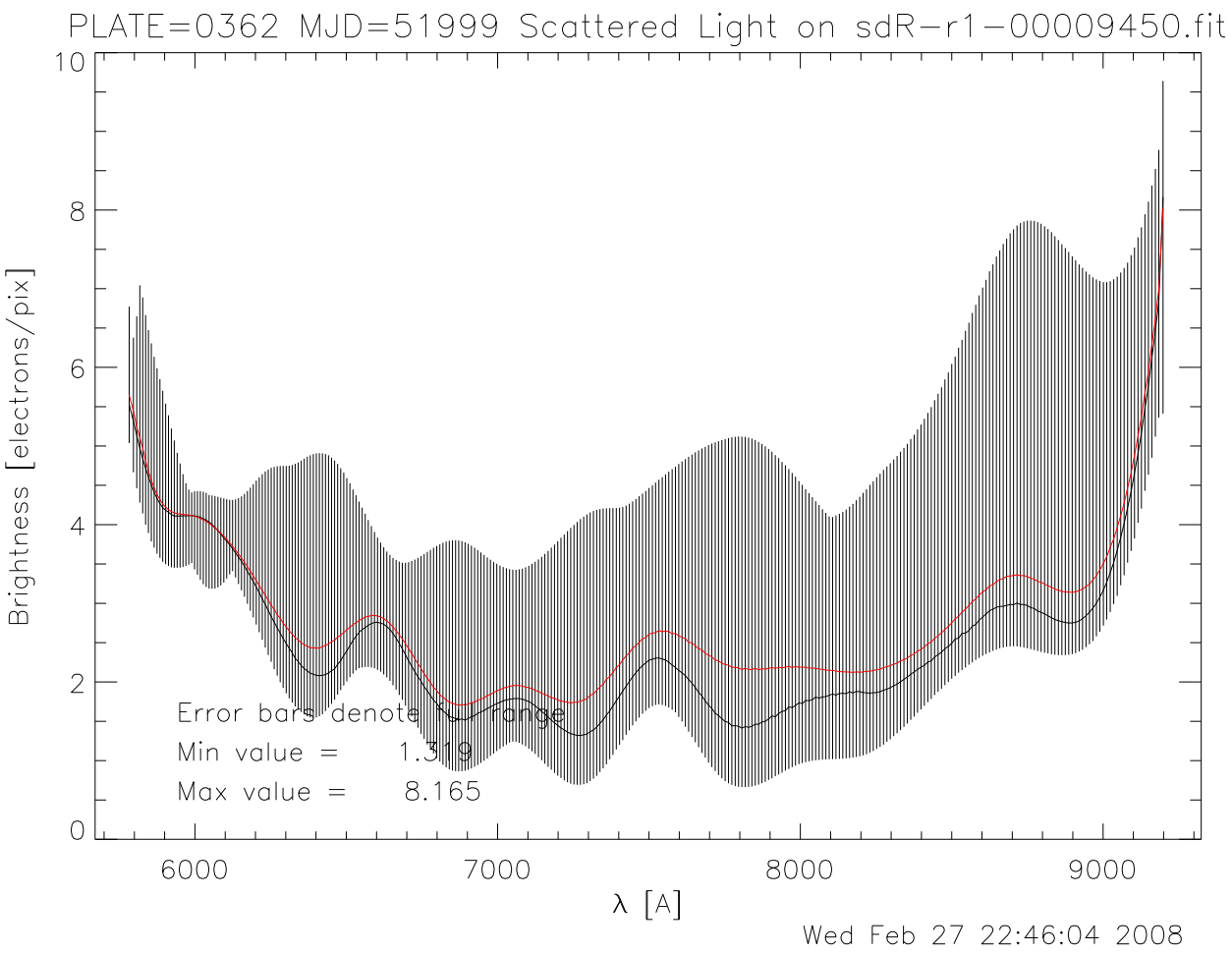

PLATE=0362 MJD=51999 sdR-r1-00009449.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.07 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

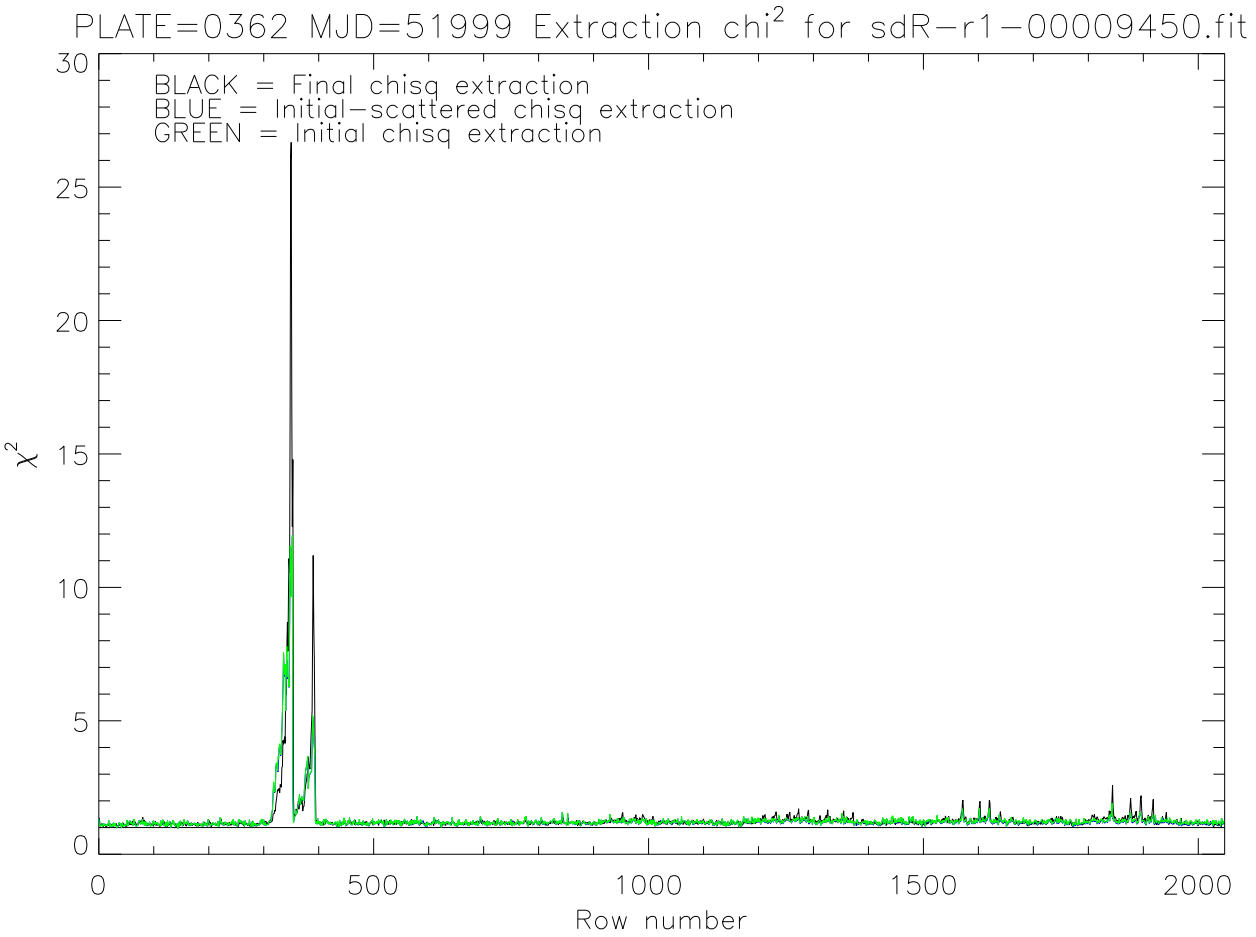

PLATE=0362 MJD=51999 Fiber−Flats for sdR−r1−00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.032
Max value = 1.349
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 22:42:11 2008

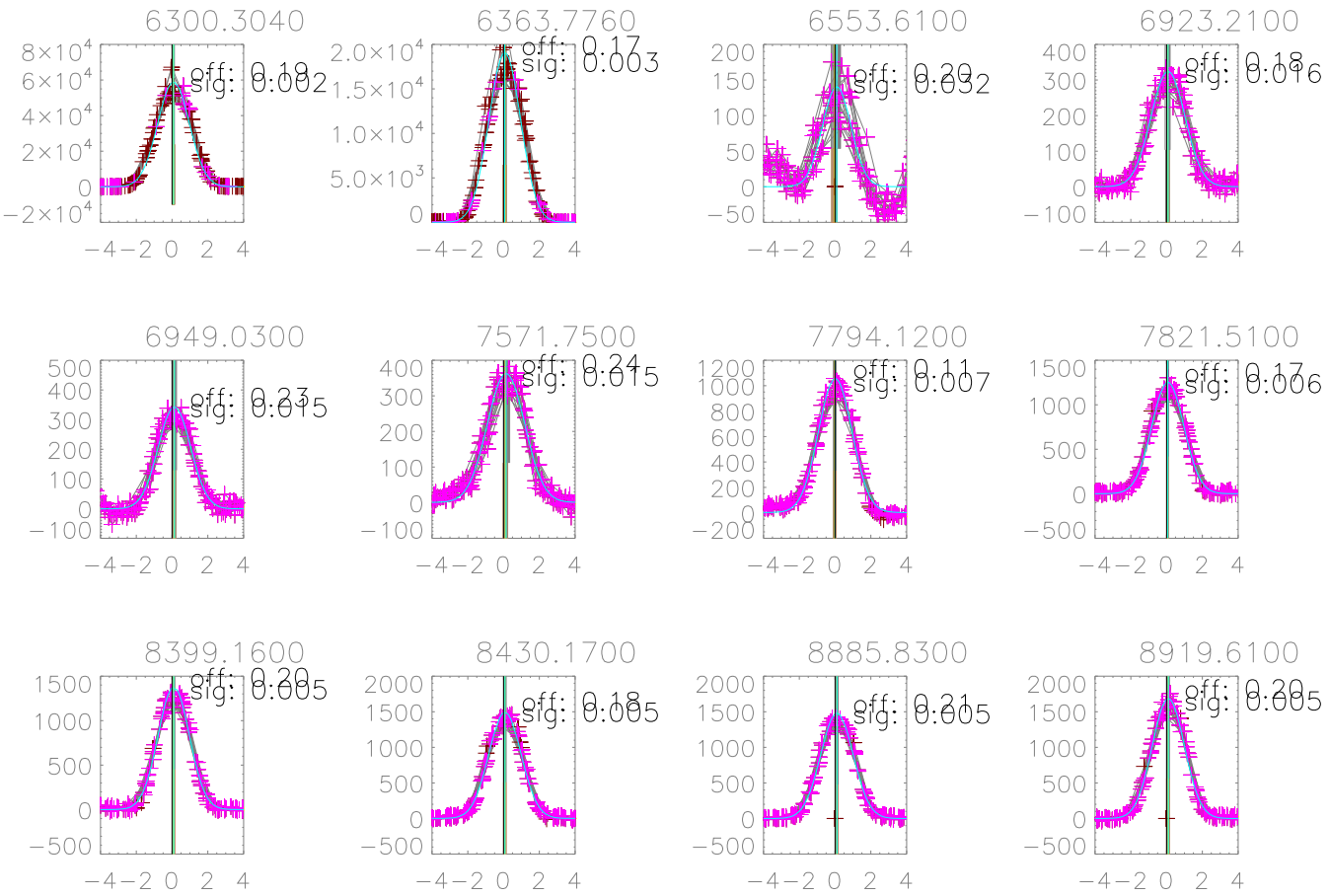

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r1-00009450.fi
22.3
15.9
9.5
Y [pix]
X [pix]
0
500
1000
1500
2000

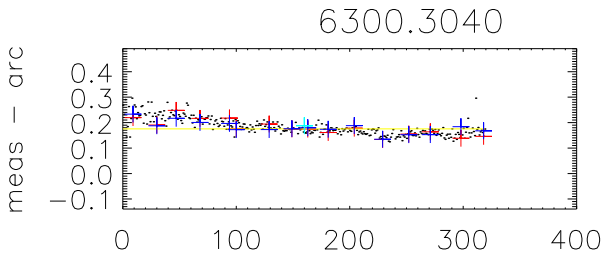

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r1-00009450.fi
Brightness [electrons/pix]
λ [A]
Errorbars denote full range
Min value = 4.222
Max value = 23.845
Wed Feb 27 22:43:02 2008

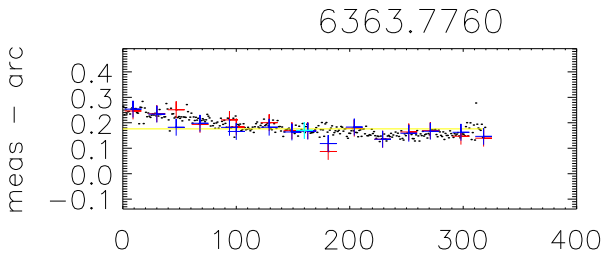

PLATE=0362 MJD=51999 Scattered Light on sdR−r1−00009450.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.4
4.5
2.7
4.5
2.7
4.5
2.7
2.7
4.5
4.5

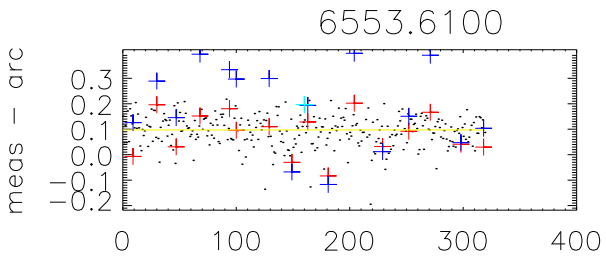

PLATE=0362 MJD=51999 Scattered Light on sdR-r1-00009450.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.319
Max value = 8.165
Wed Feb 27 22:46:04 2008

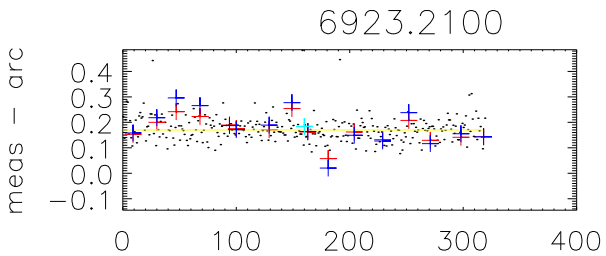

PLATE=0362 MJD=51999 Extraction chi^2 for sdR−r1−00009450.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
25
30
0
500
1000
1500
2000
Row number

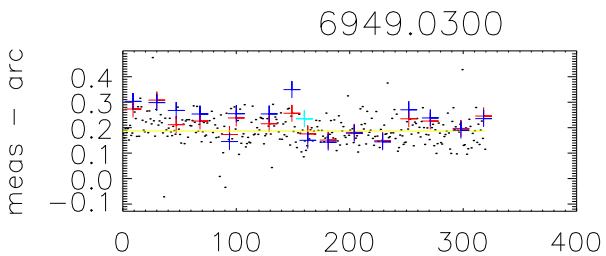

6300.3040
off: 0.18
sig: 0.002
6363.7760
off: 0.17
sig: 0.003
6553.6100
off: 0.20
sig: 0.032
6923.2100
off: 0.18
sig: 0.016
6949.0300
off: 0.23
sig: 0.015
7571.7500
off: 0.24
sig: 0.015
7794.1200
off: 0.11
sig: 0.007
7821.5100
off: 0.17
sig: 0.006
8399.1600
off: 0.20
sig: 0.005
8430.1700
off: 0.18
sig: 0.005
8885.8300
off: 0.21
sig: 0.005
8919.6100
off: 0.20
sig: 0.005

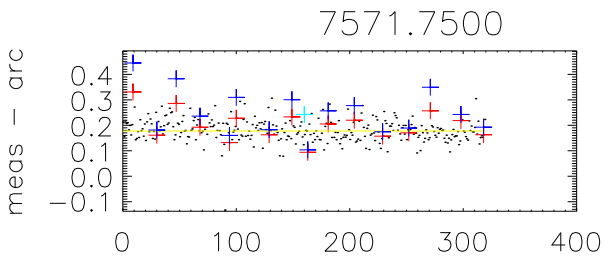

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

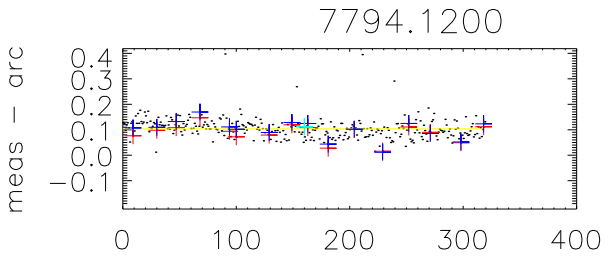

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

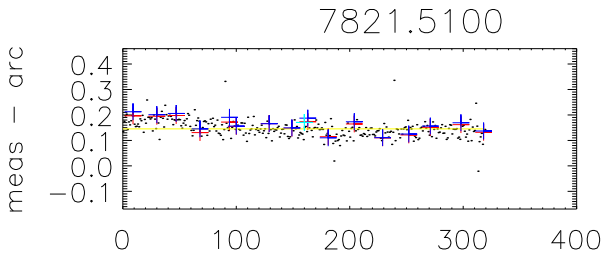

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

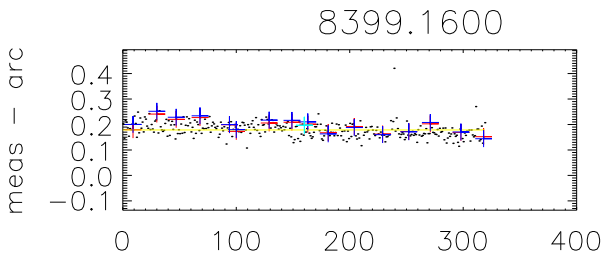

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

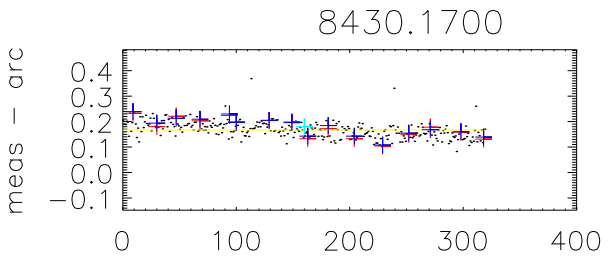

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

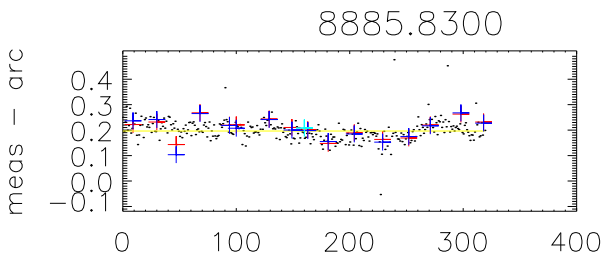

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

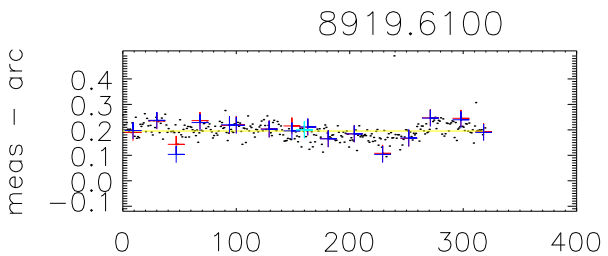

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

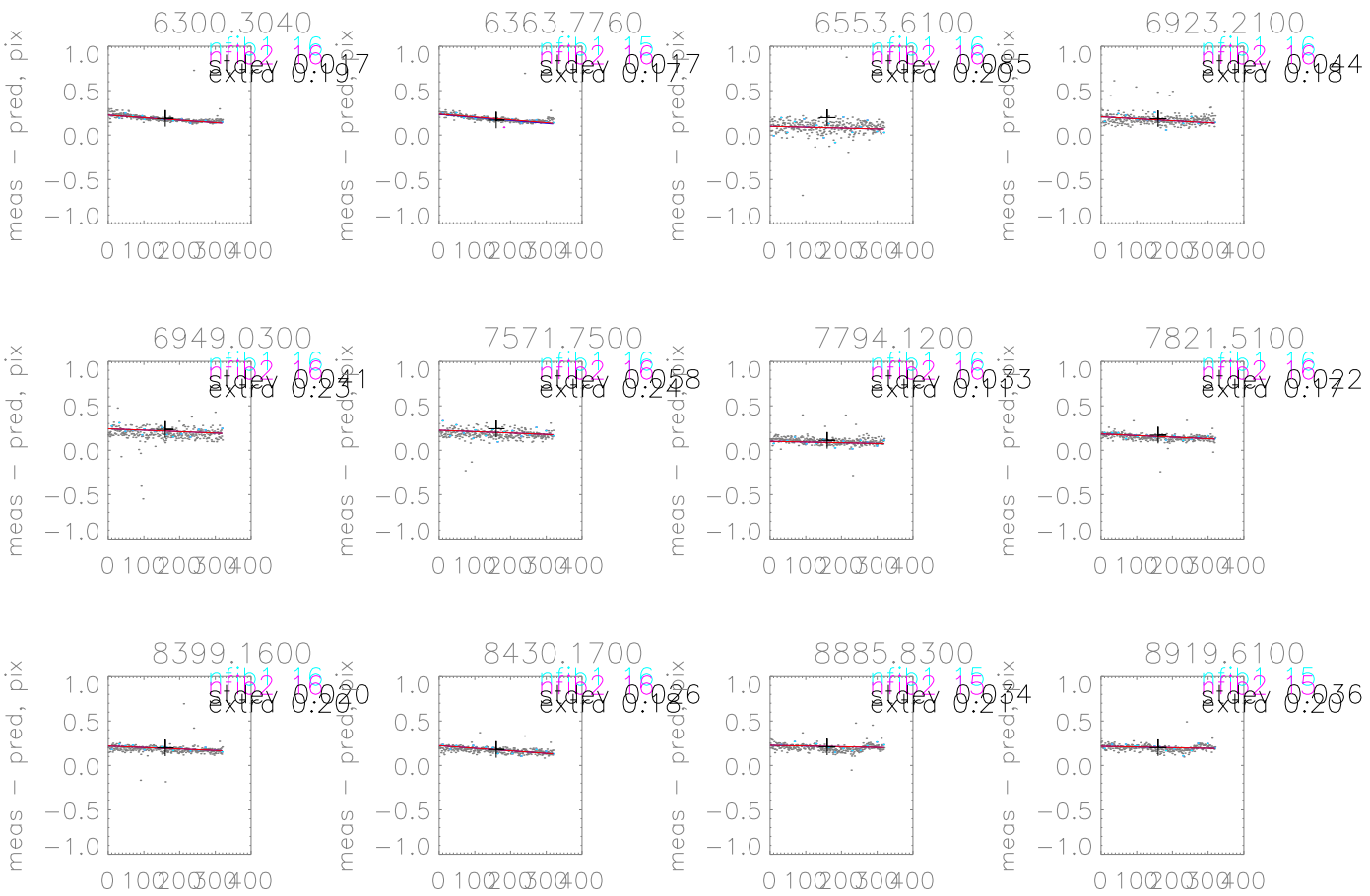

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

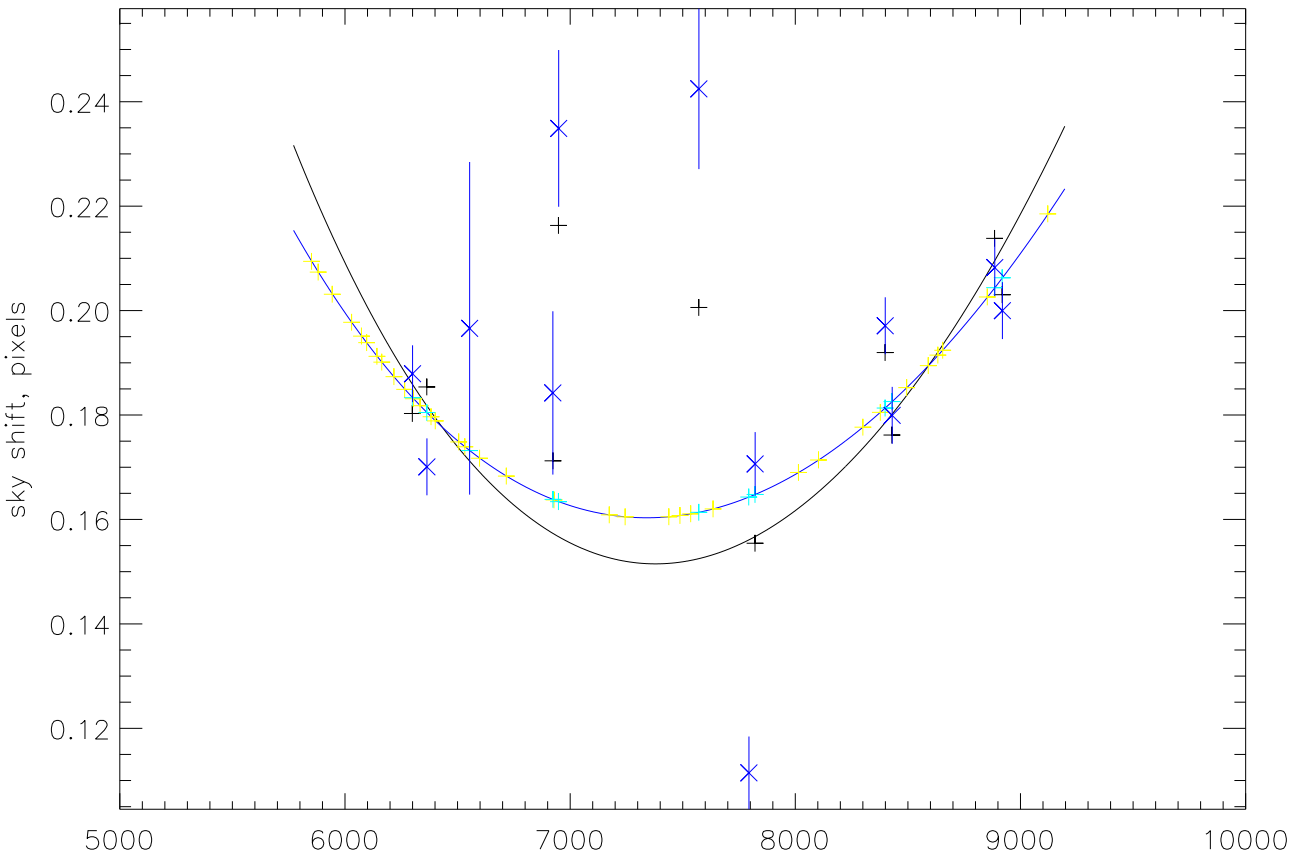

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

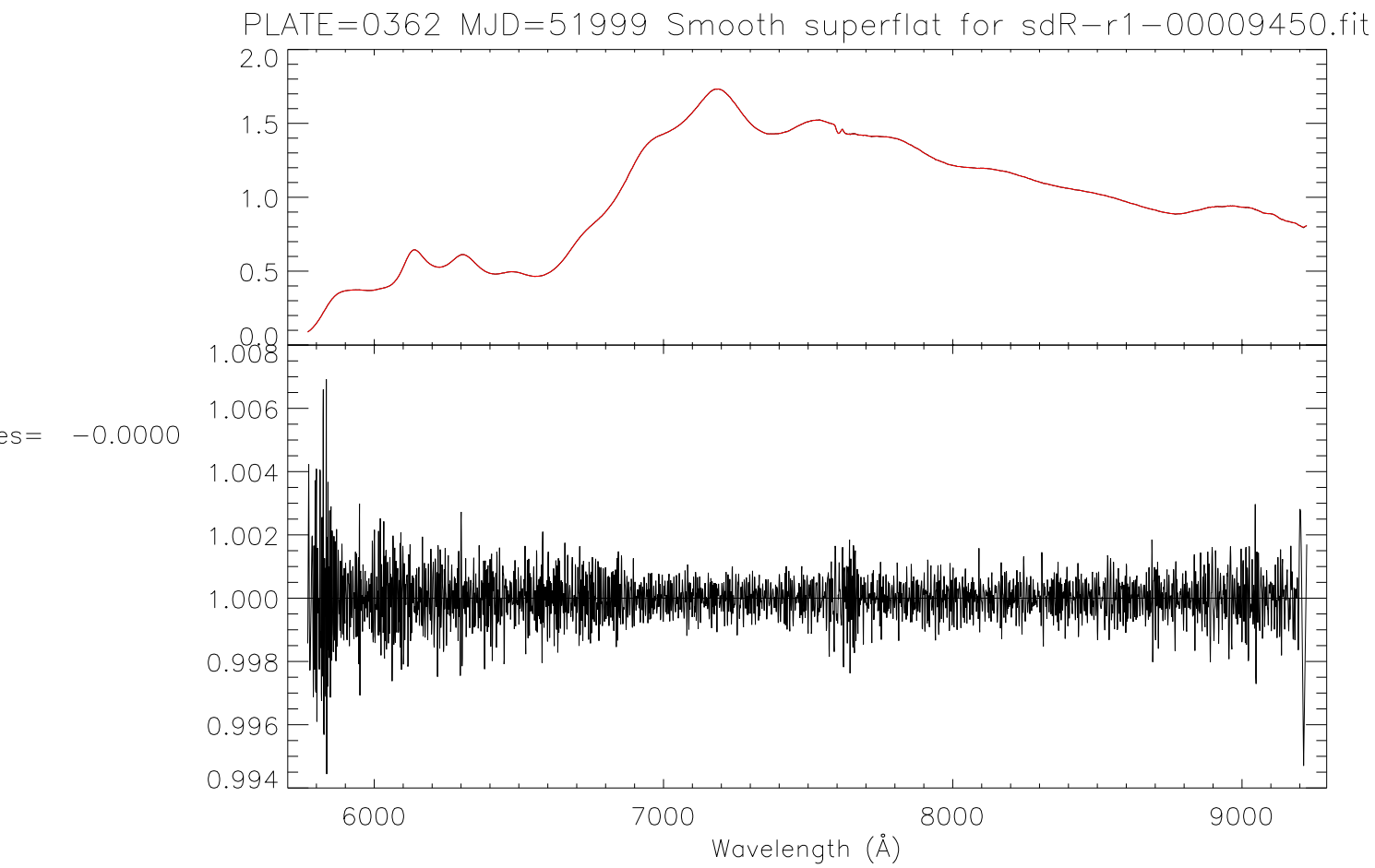

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

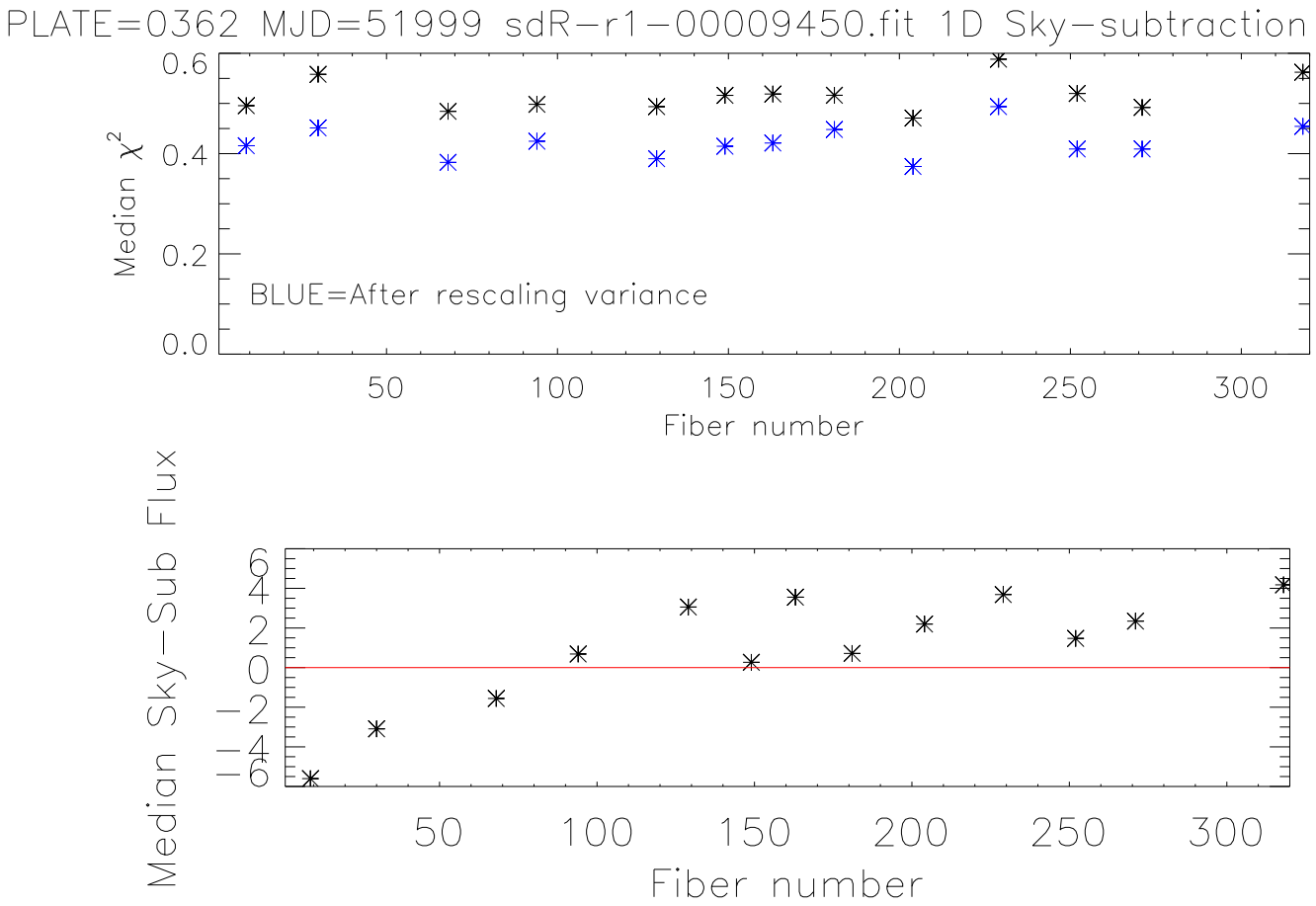

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

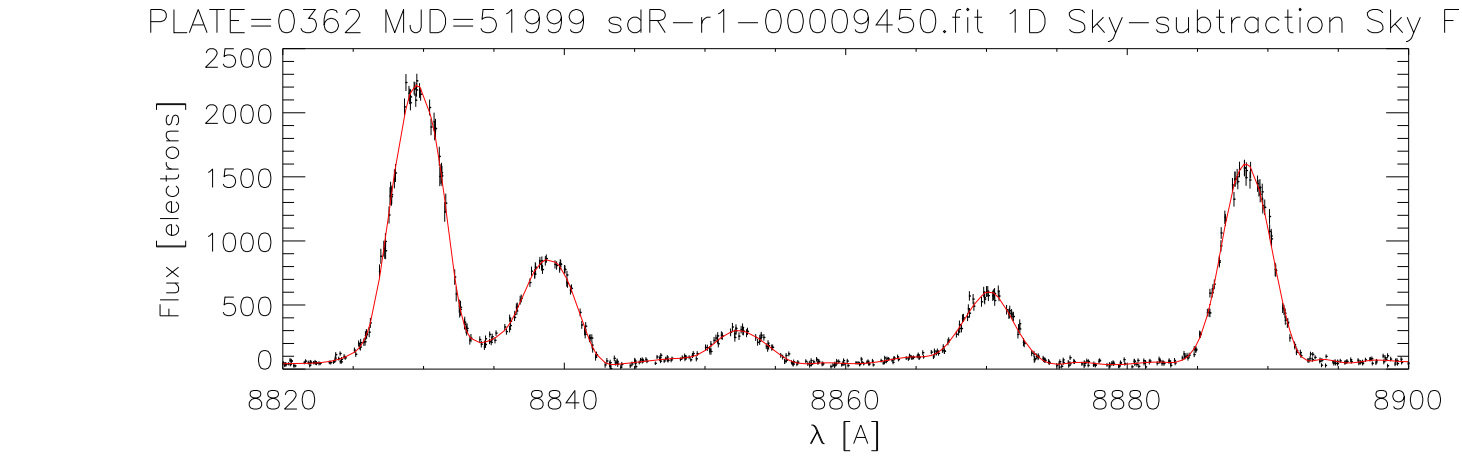

6300.3040
stdev 0.097
extra 0.19
6363.7760
stdev 0.097
extra 0.17
6553.6100
stdev 0.085
extra 0.20
6923.2100
stdev 0.044
extra 0.18
6949.0300
stdev 0.041
extra 0.23
7571.7500
stdev 0.058
extra 0.24
7794.1200
stdev 0.033
extra 0.11
7821.5100
stdev 0.022
extra 0.17
8399.1600
stdev 0.020
extra 0.20
8430.1700
stdev 0.026
extra 0.18
8885.8300
stdev 0.034
extra 0.21
8919.6100
stdev 0.036
extra 0.20
meas − pred, pix
mfhd2 16
mfhd1 16
mfhd2 15
mfhd1 15

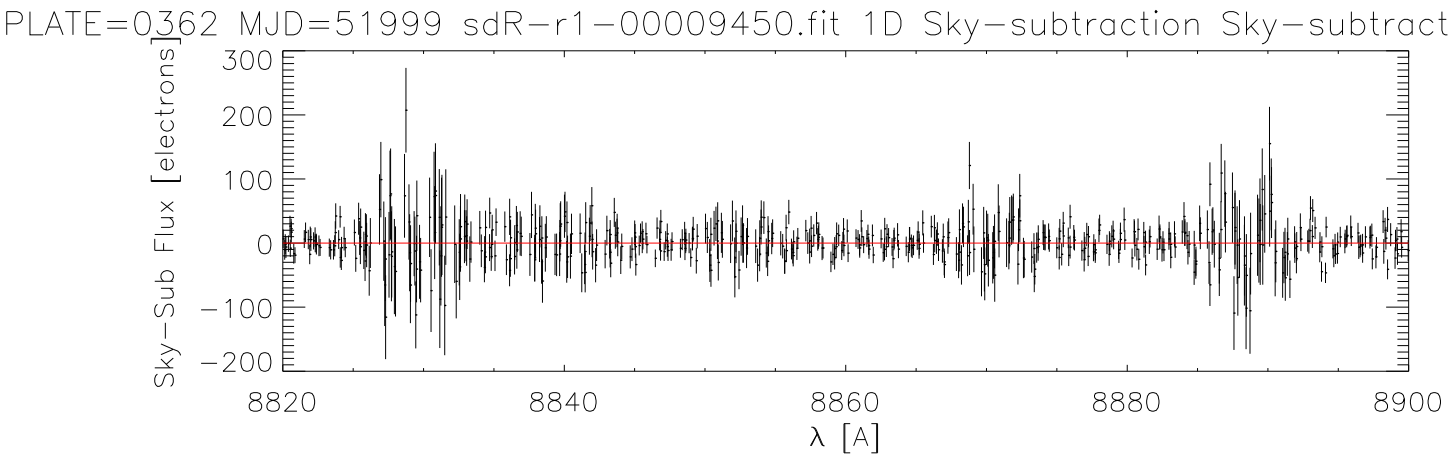

sky shift, pixels
0.24
0.22
0.20
0.18
0.16
0.14
0.12
5000
6000
7000
8000
9000
10000

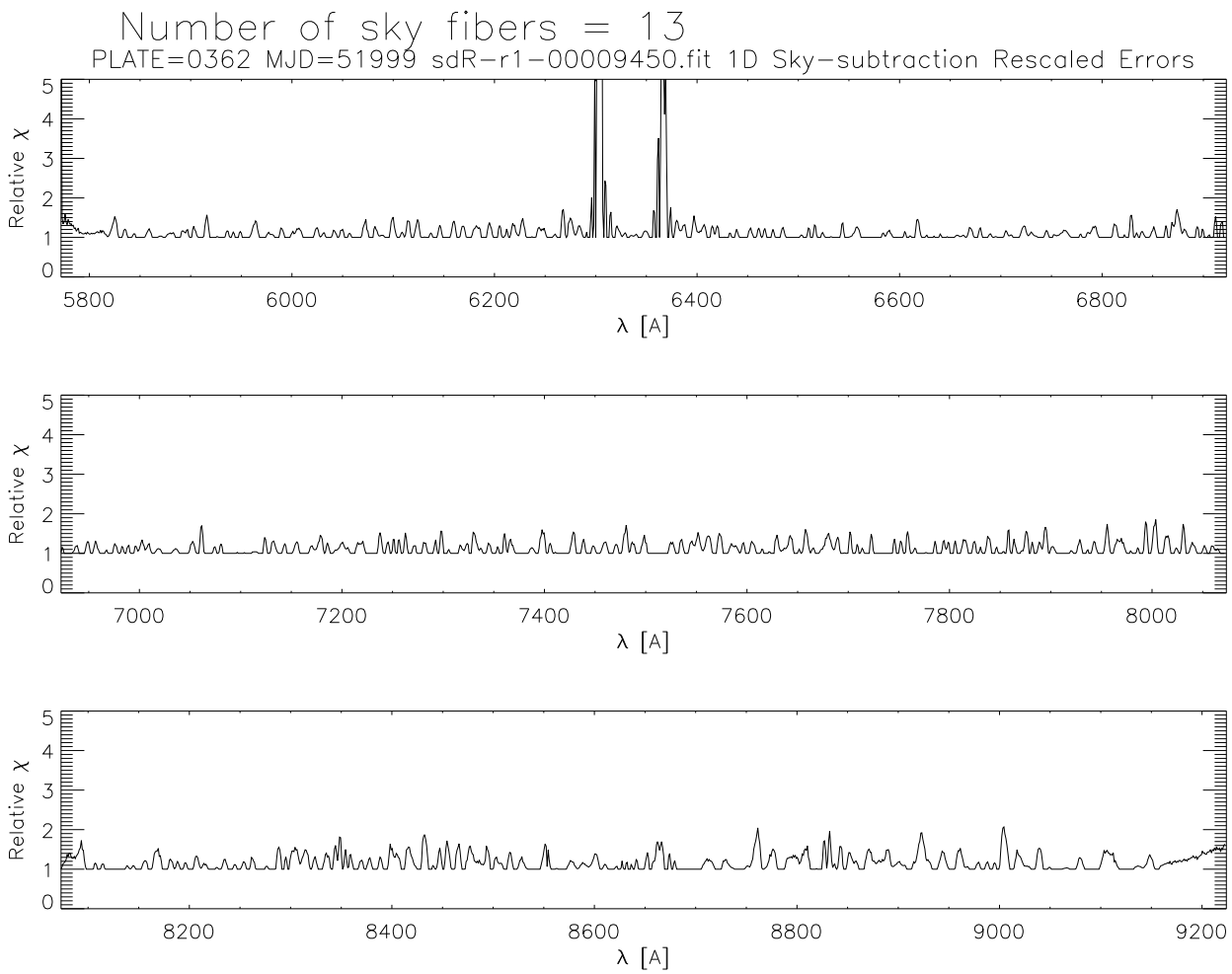

PLATE=0362 MJD=51999 Smooth superflat for sdR-r1-00009450.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

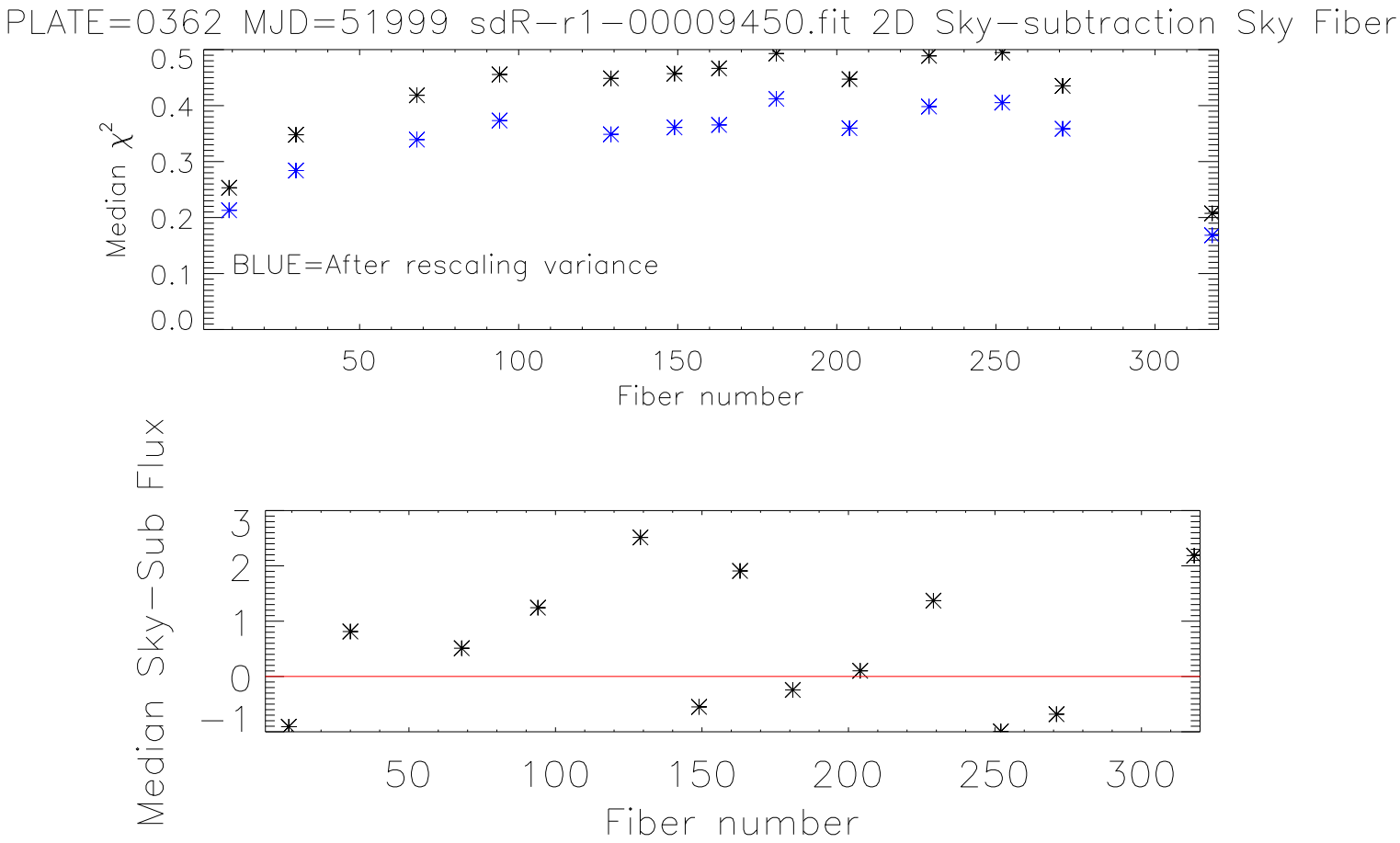
es= −0.0000

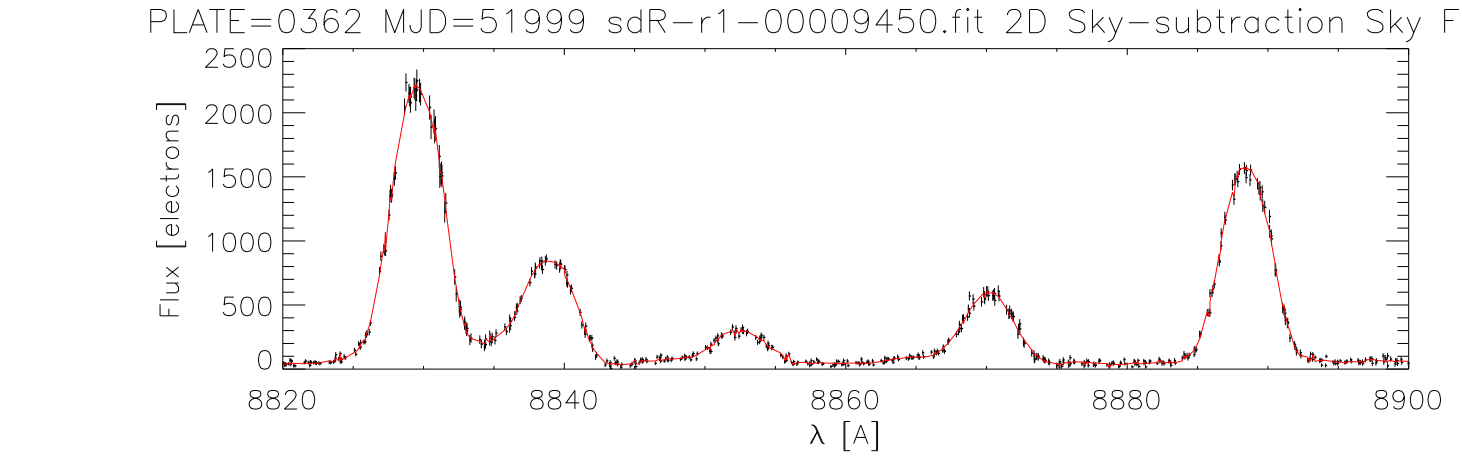

PLATE=0362 MJD=51999 sdR-r1-00009450.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

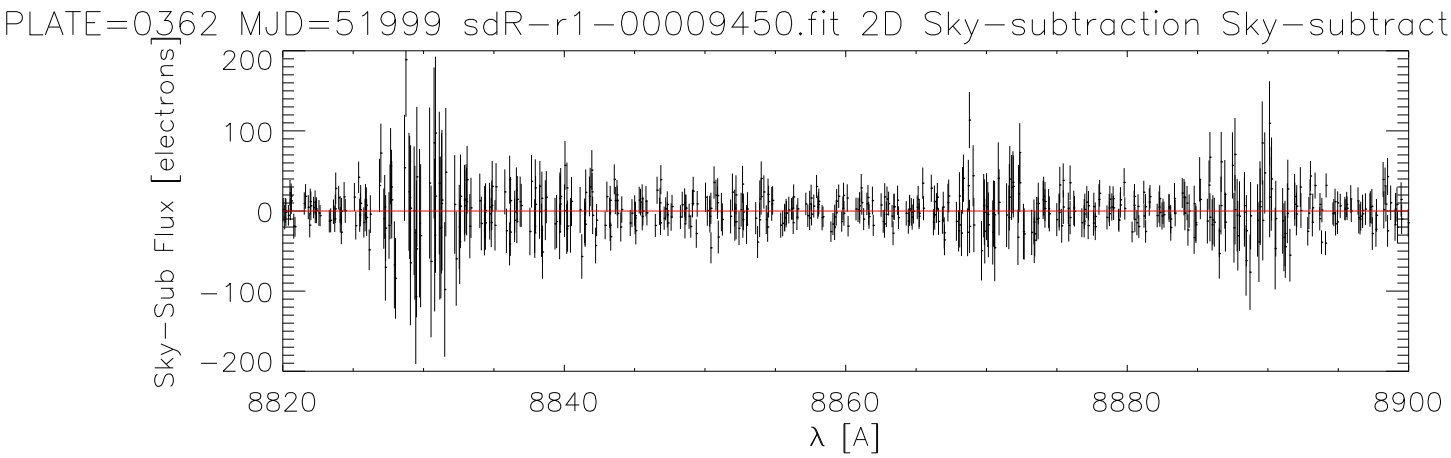

PLATE=0362 MJD=51999 sdR-r1-00009450.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

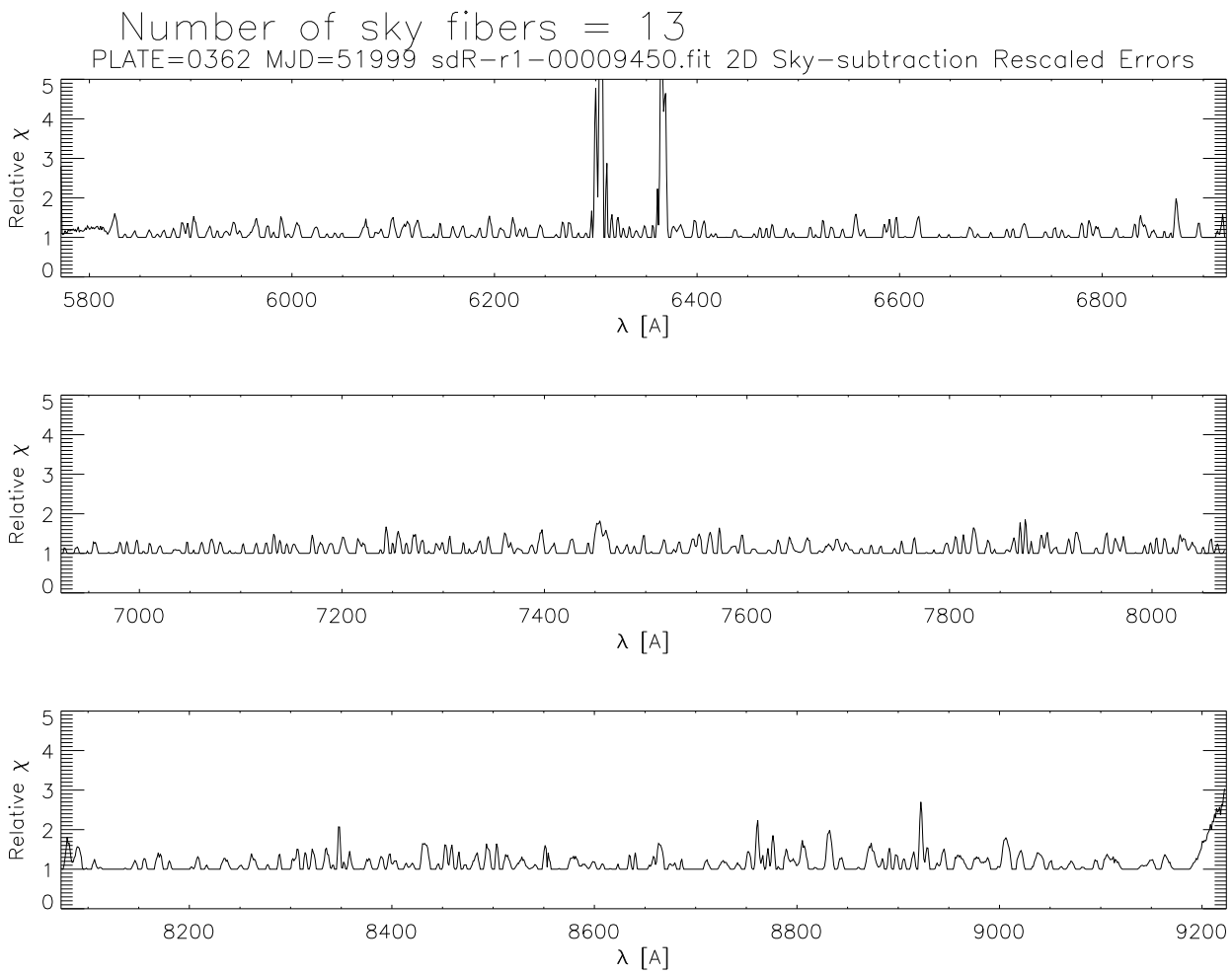

PLATE=0362 MJD=51999 sdR-r1-00009450.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

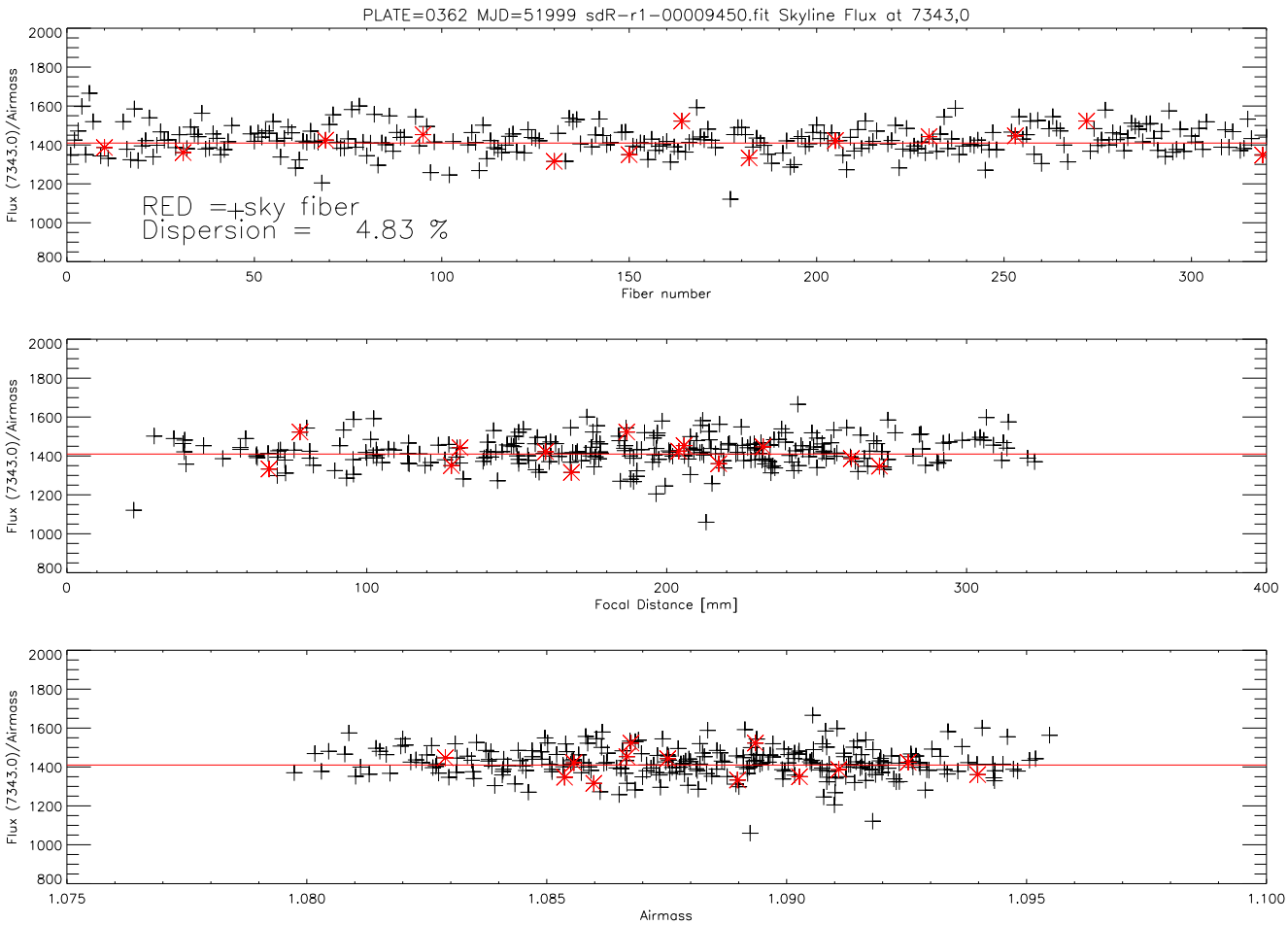

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r1-00009450.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

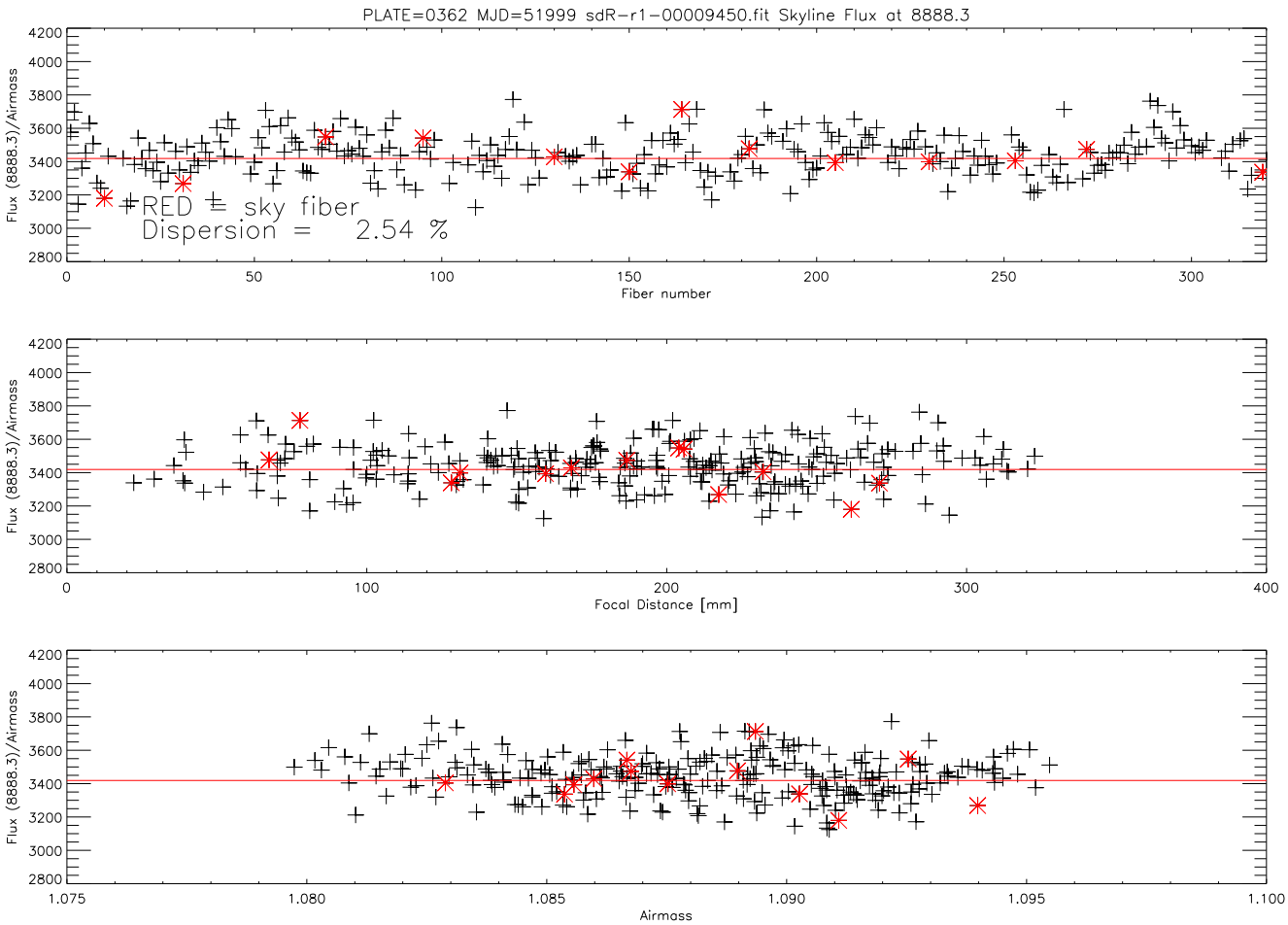

PLATE=0362 MJD=51999 sdR-r1-00009450.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

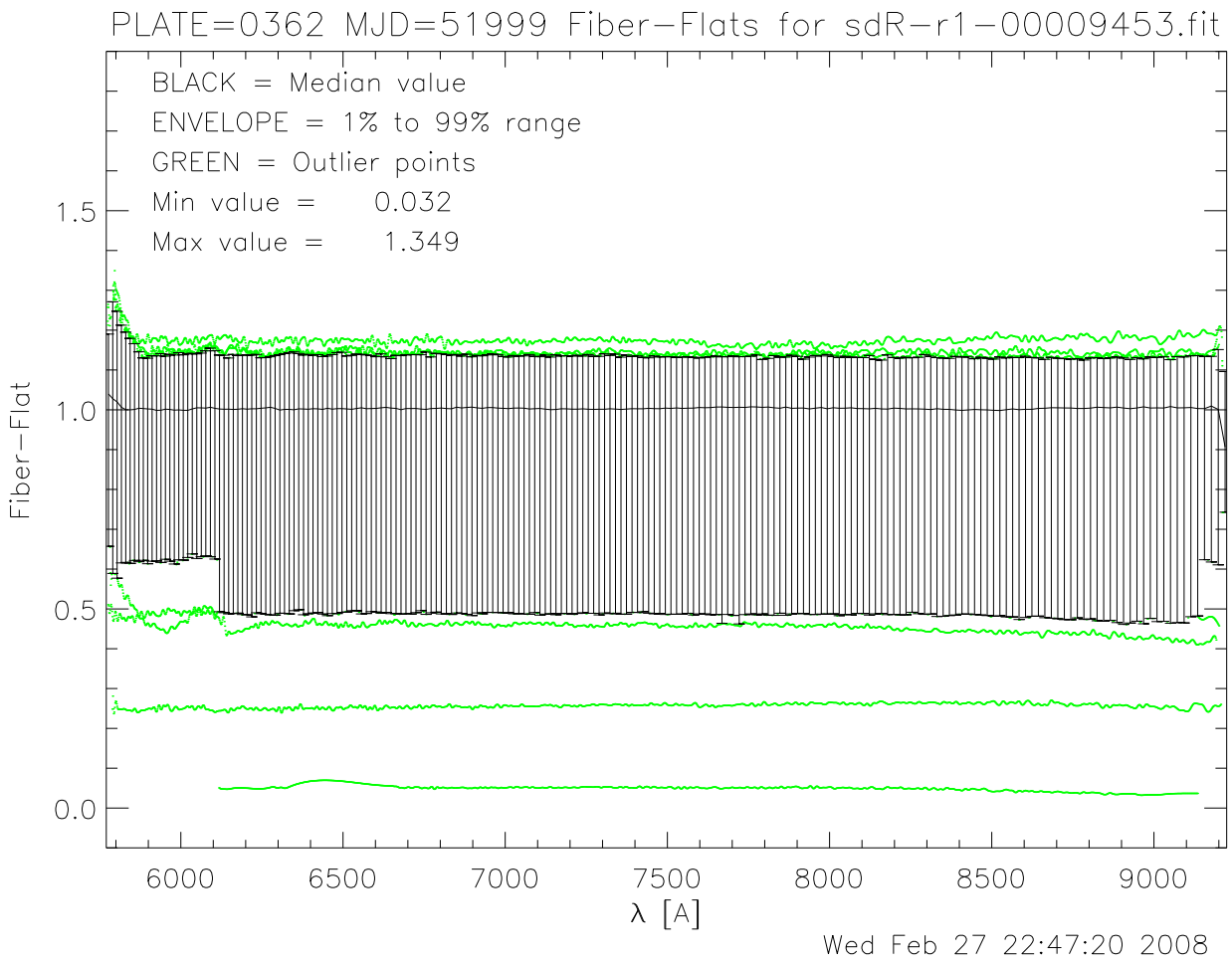

PLATE=0362 MJD=51999 sdR-r1-00009450.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

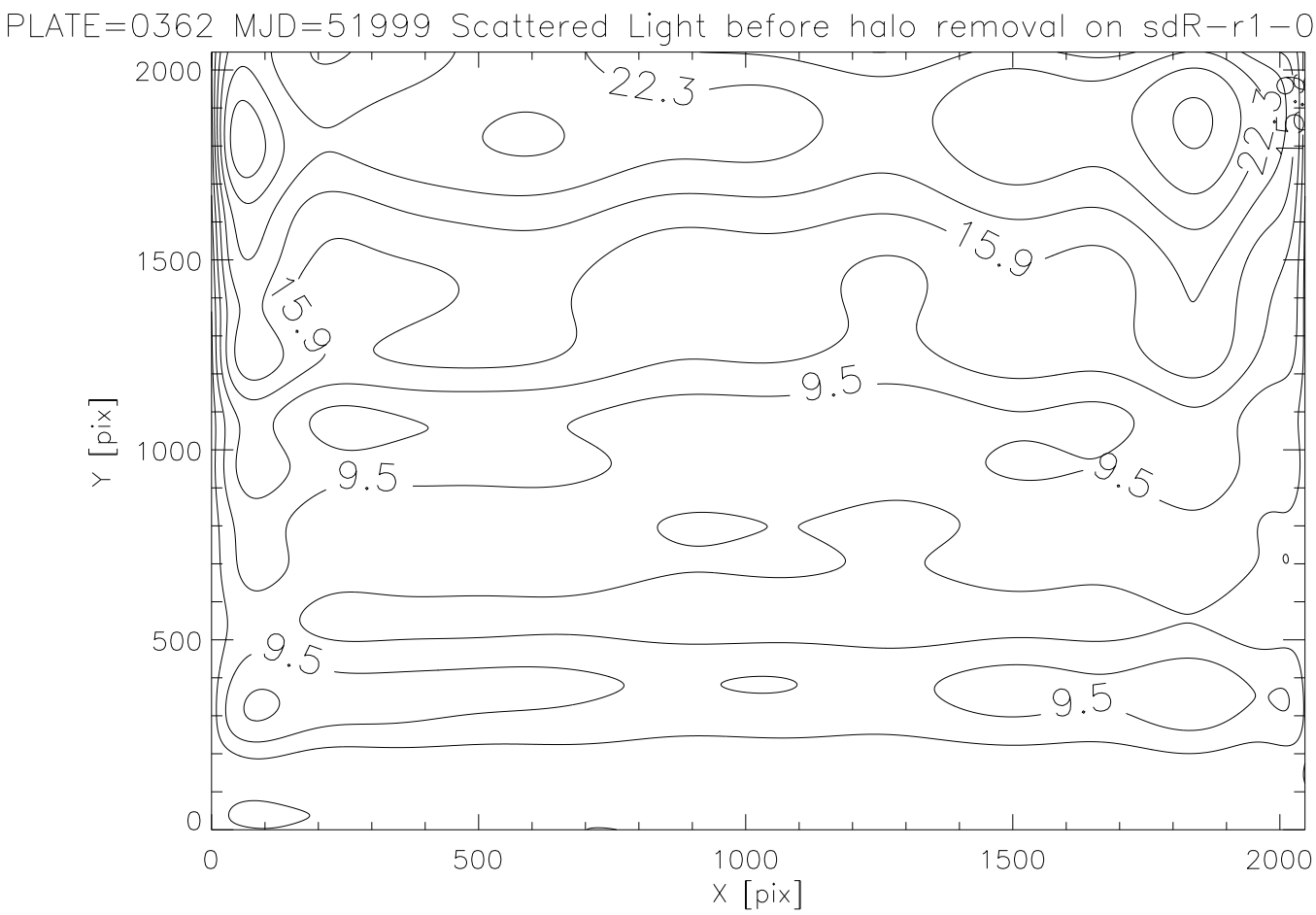

PLATE=0362 MJD=51999 sdR-r1-00009450.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

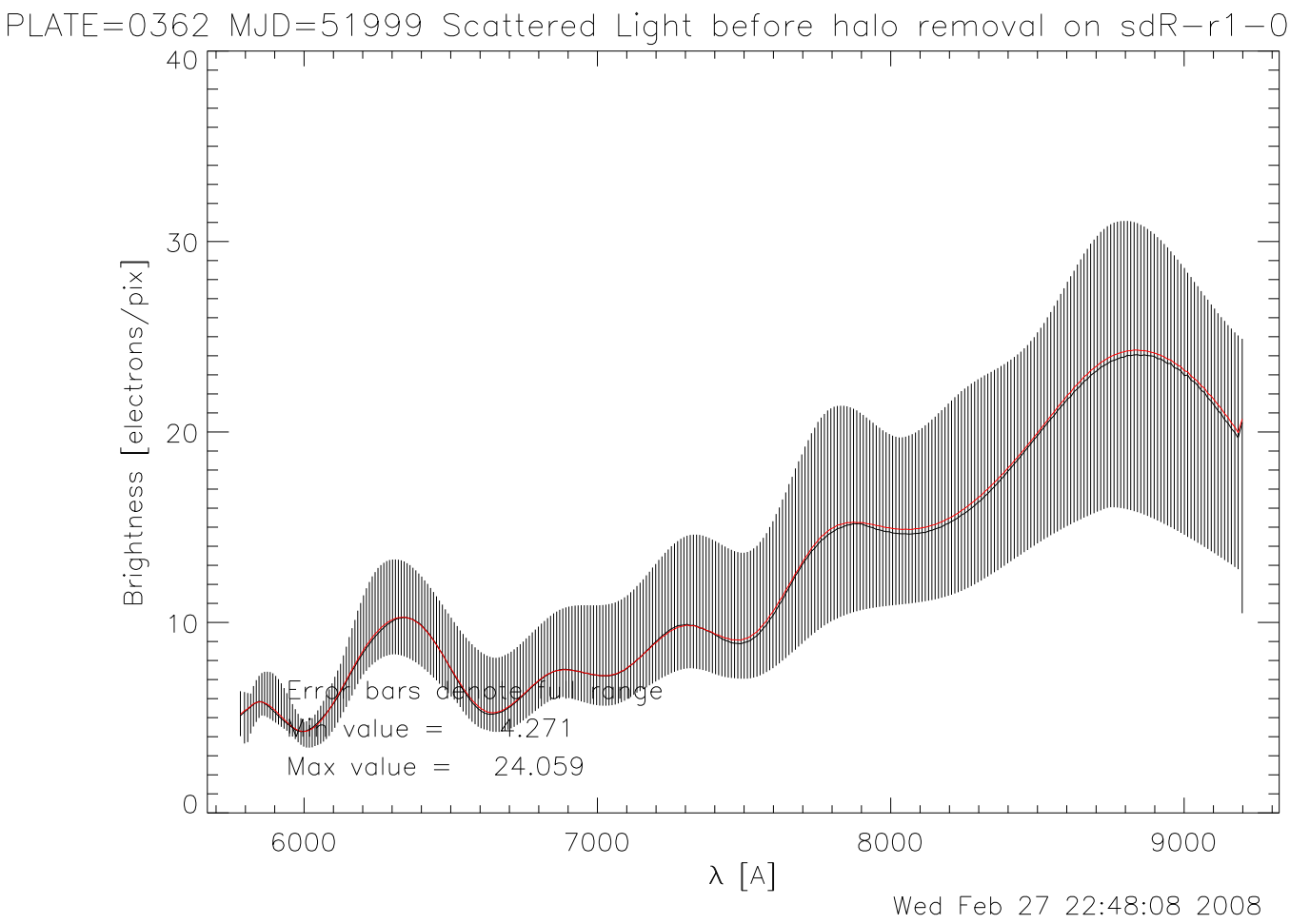

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r1-00009450.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

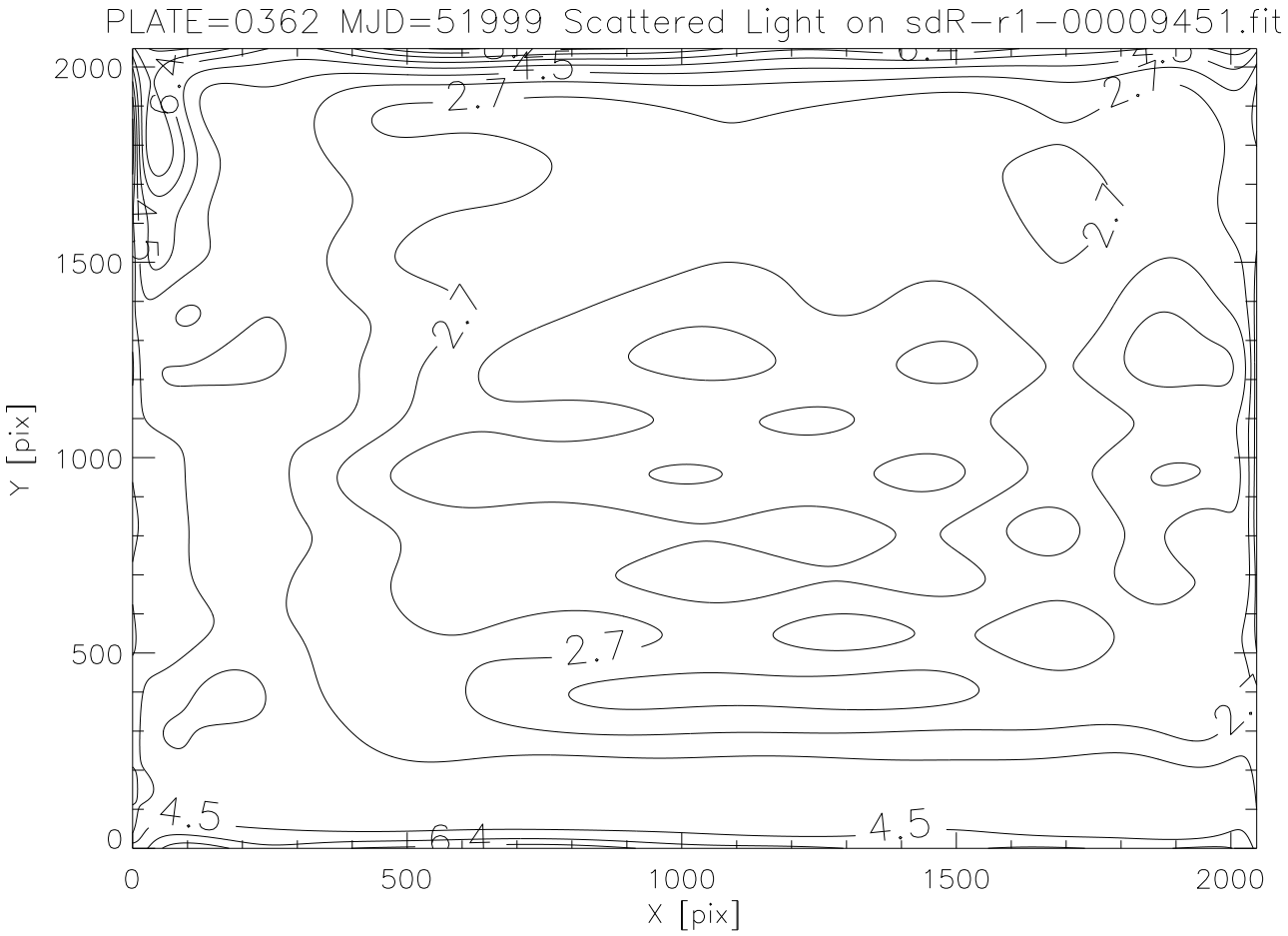

PLATE=0362 MJD=51999 sdR-r1-00009450.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED =+sky fiber
Dispersion = 4.83 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

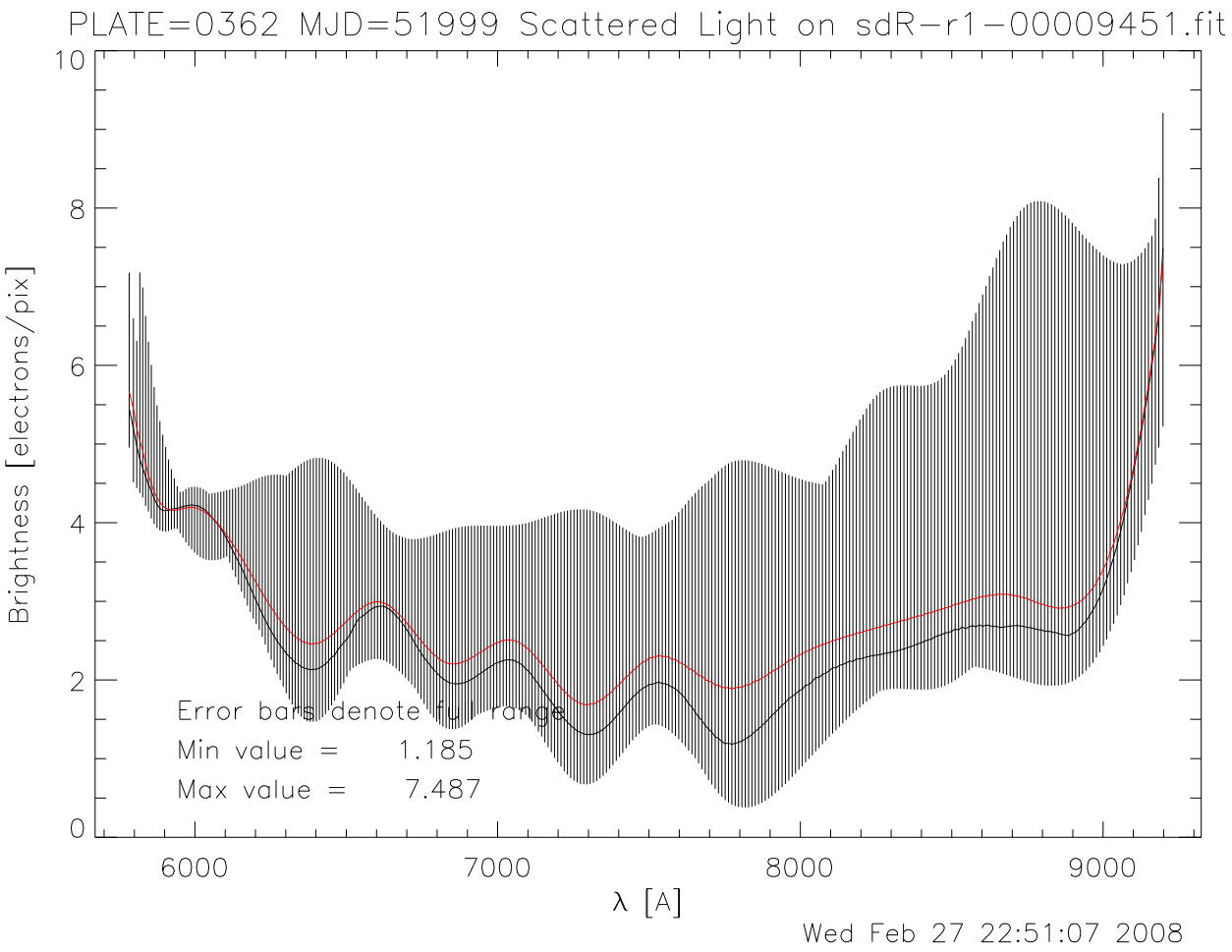

PLATE=0362 MJD=51999 sdR-r1-00009450.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.54 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

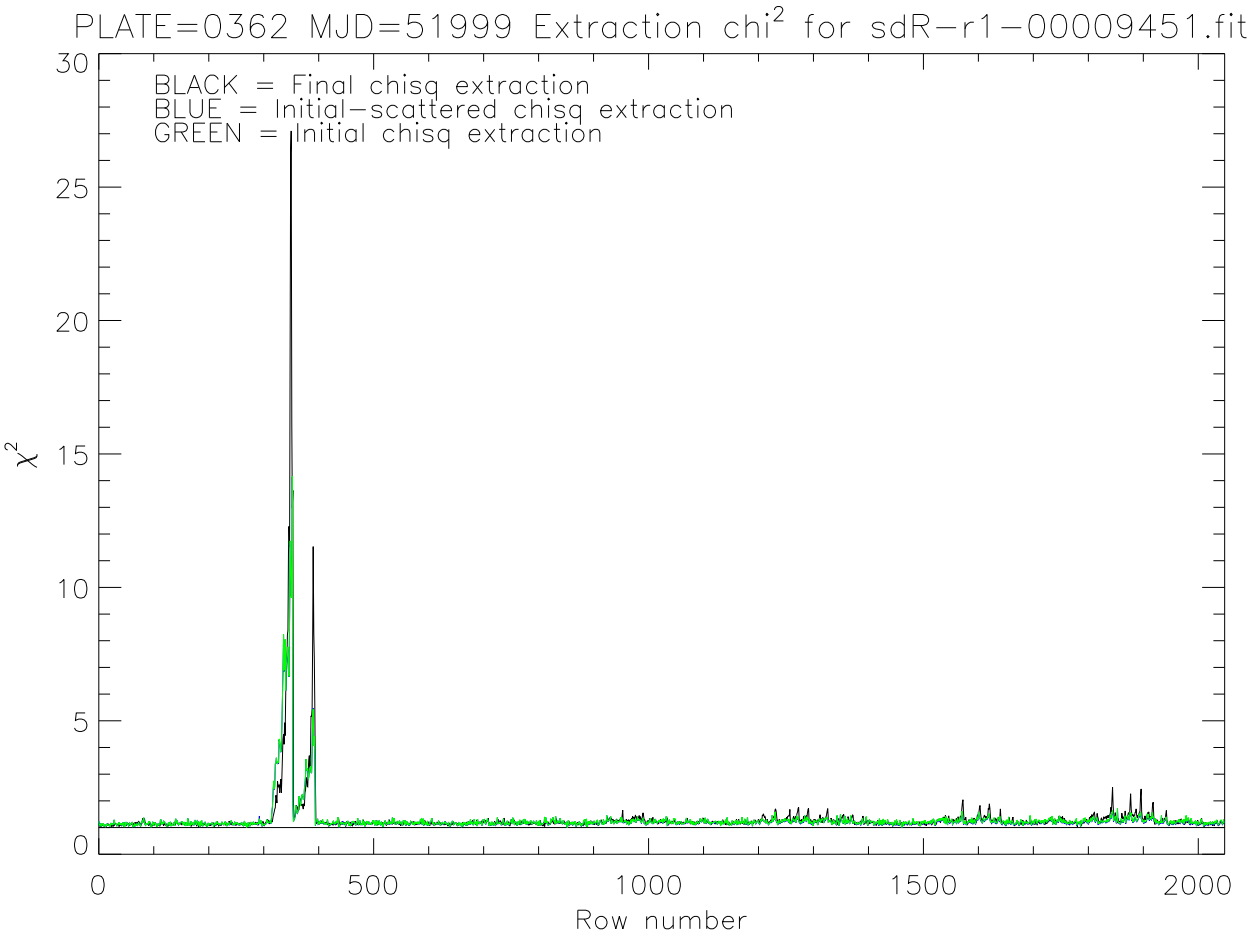

PLATE=0362 MJD=51999 Fiber−Flats for sdR−r1−00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.032
Max value = 1.349
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 22:47:20 2008

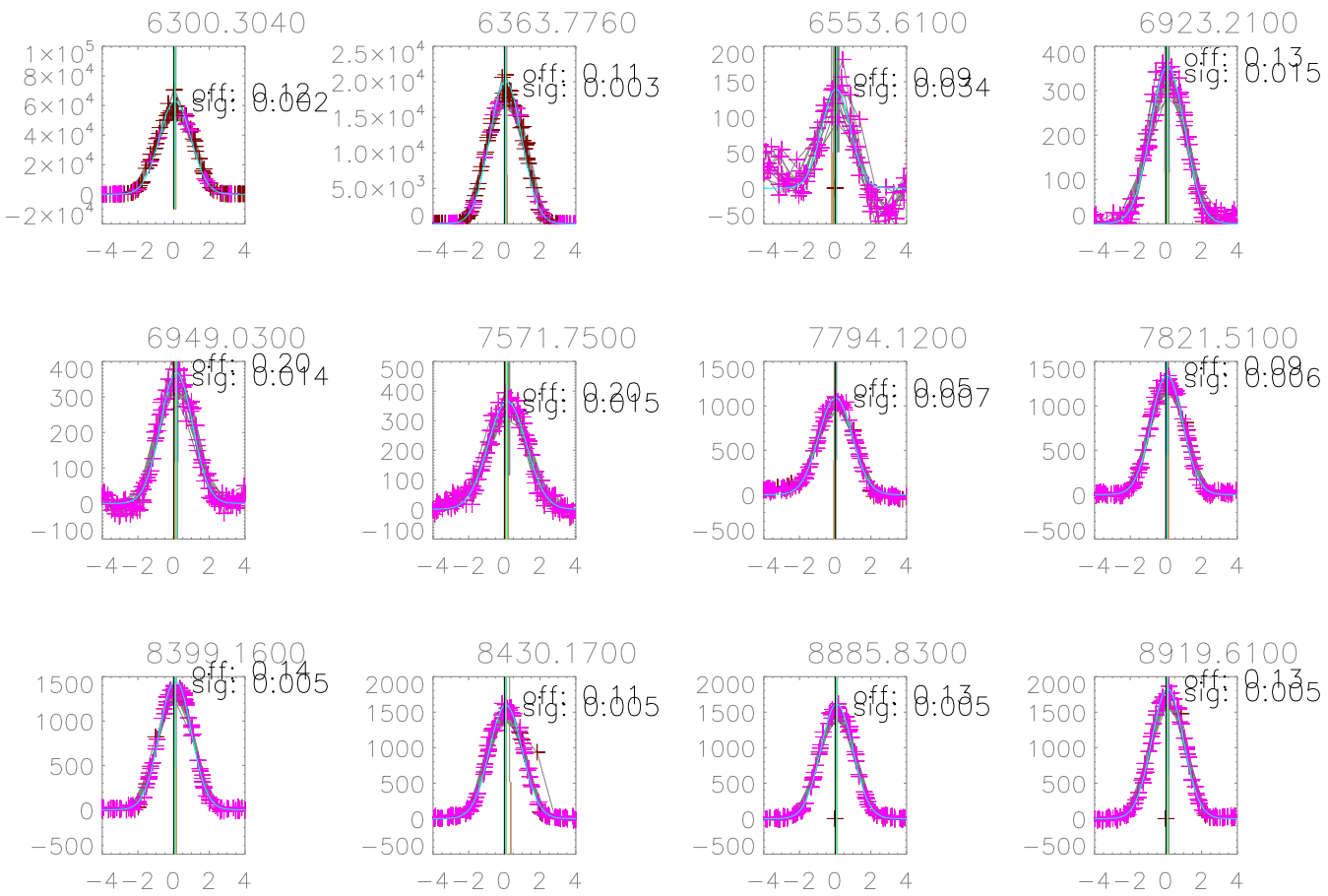

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r1-00009451.fi
22.3
15.9
9.5
Y [pix]
X [pix]
0
500
1000
1500
2000

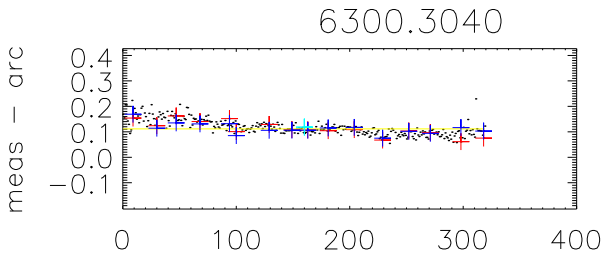

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r1-00009451.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.271
Max value = 24.059
Wed Feb 27 22:48:08 2008

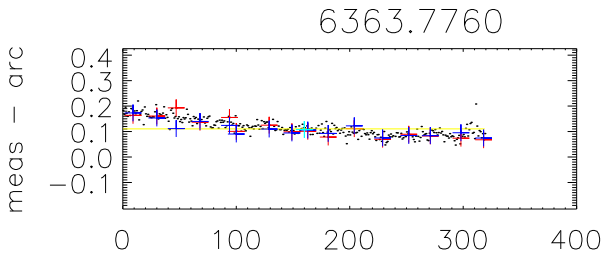

PLATE=0362 MJD=51999 Scattered Light on sdR−r1−00009451.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
4.5
2.7
6.4
4.5
2.7
2.7
2.7
4.5
6.4
4.5

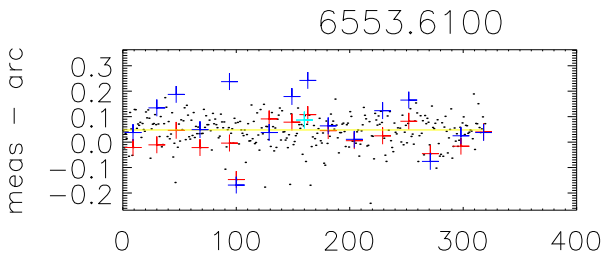

PLATE=0362 MJD=51999 Scattered Light on sdR-r1-00009451.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.185
Max value = 7.487
Wed Feb 27 22:51:07 2008

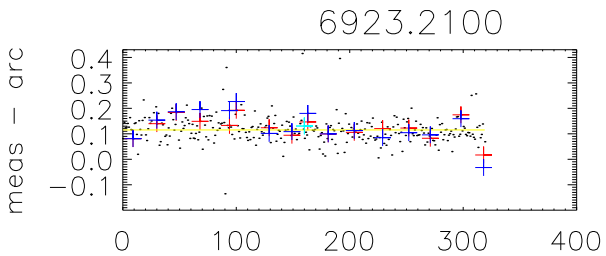

PLATE=0362 MJD=51999 Extraction chi^2 for sdR−r1−00009451.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
25
30
0
500
1000
1500
2000
Row number

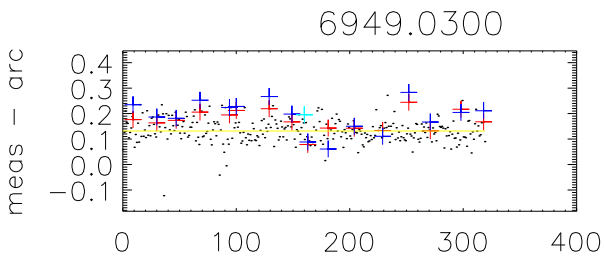

6300.3040
off: 0.12
sig: 0.002
6363.7760
off: 0.11
sig: 0.003
6553.6100
off: 0.09
sig: 0.004
6923.2100
off: 0.13
sig: 0.015
6949.0300
off: 0.20
sig: 0.014
7571.7500
off: 0.20
sig: 0.015
7794.1200
off: 0.05
sig: 0.007
7821.5100
off: 0.08
sig: 0.006
8399.1600
off: 0.14
sig: 0.005
8430.1700
off: 0.11
sig: 0.005
8885.8300
off: 0.13
sig: 0.005
8919.6100
off: 0.13
sig: 0.005

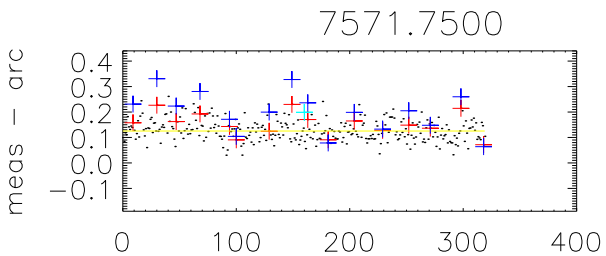

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

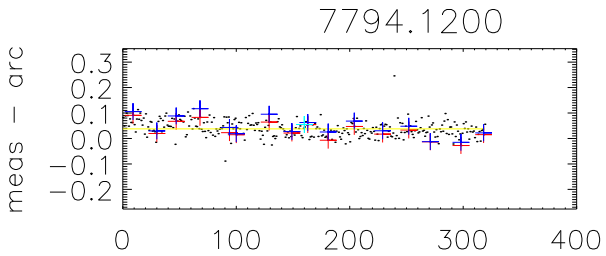

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

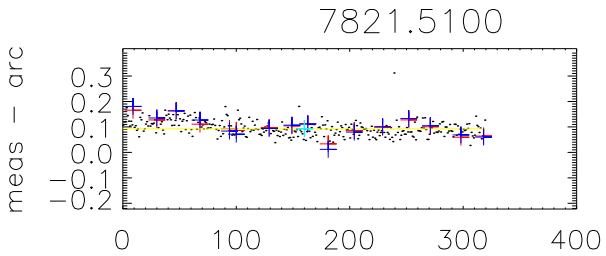

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

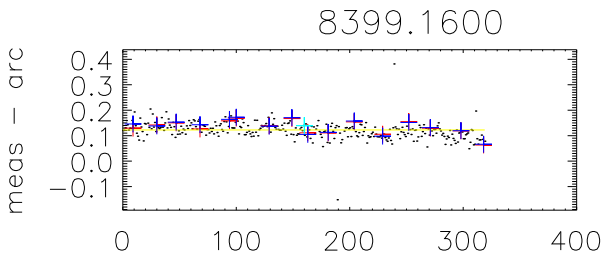

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

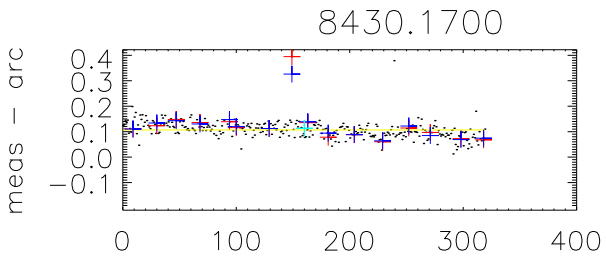

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

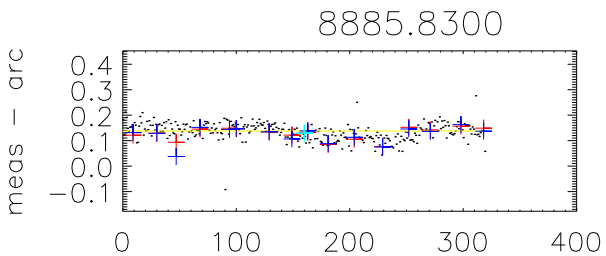

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

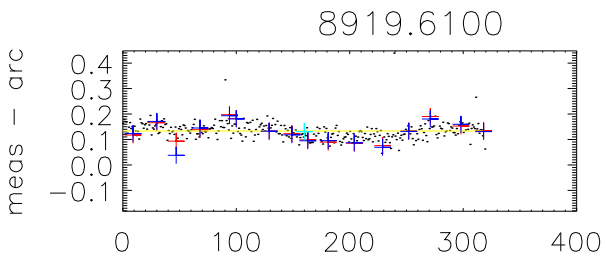

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

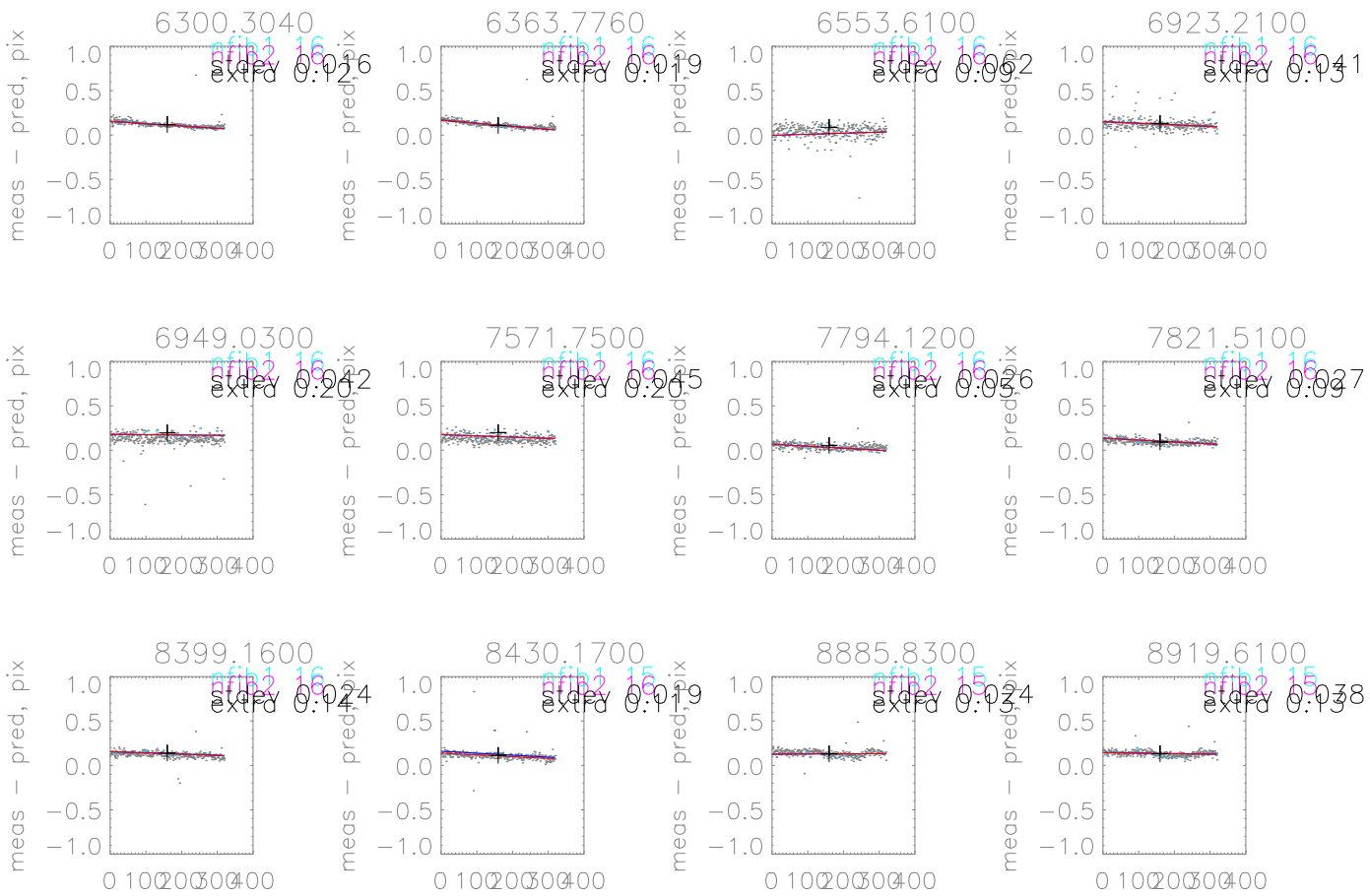

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

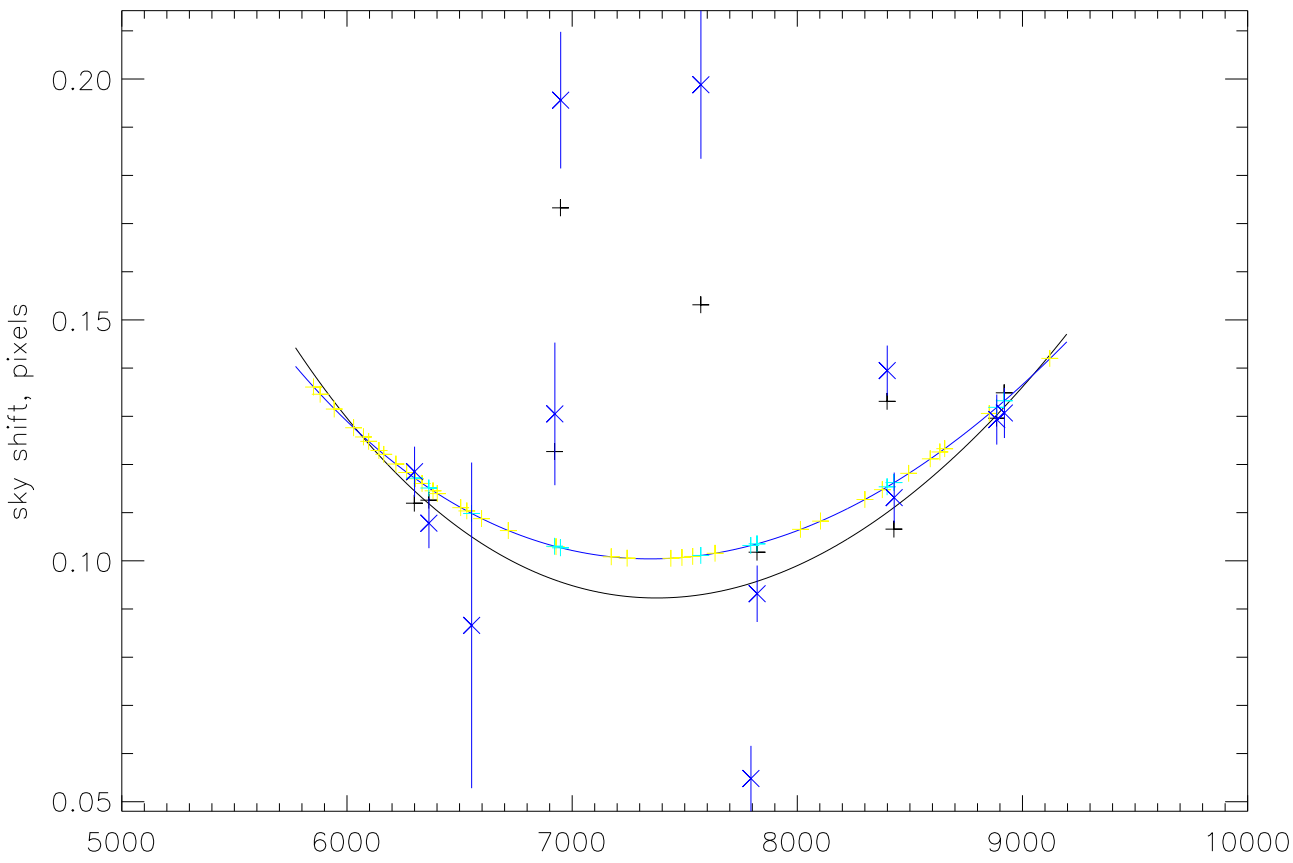

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

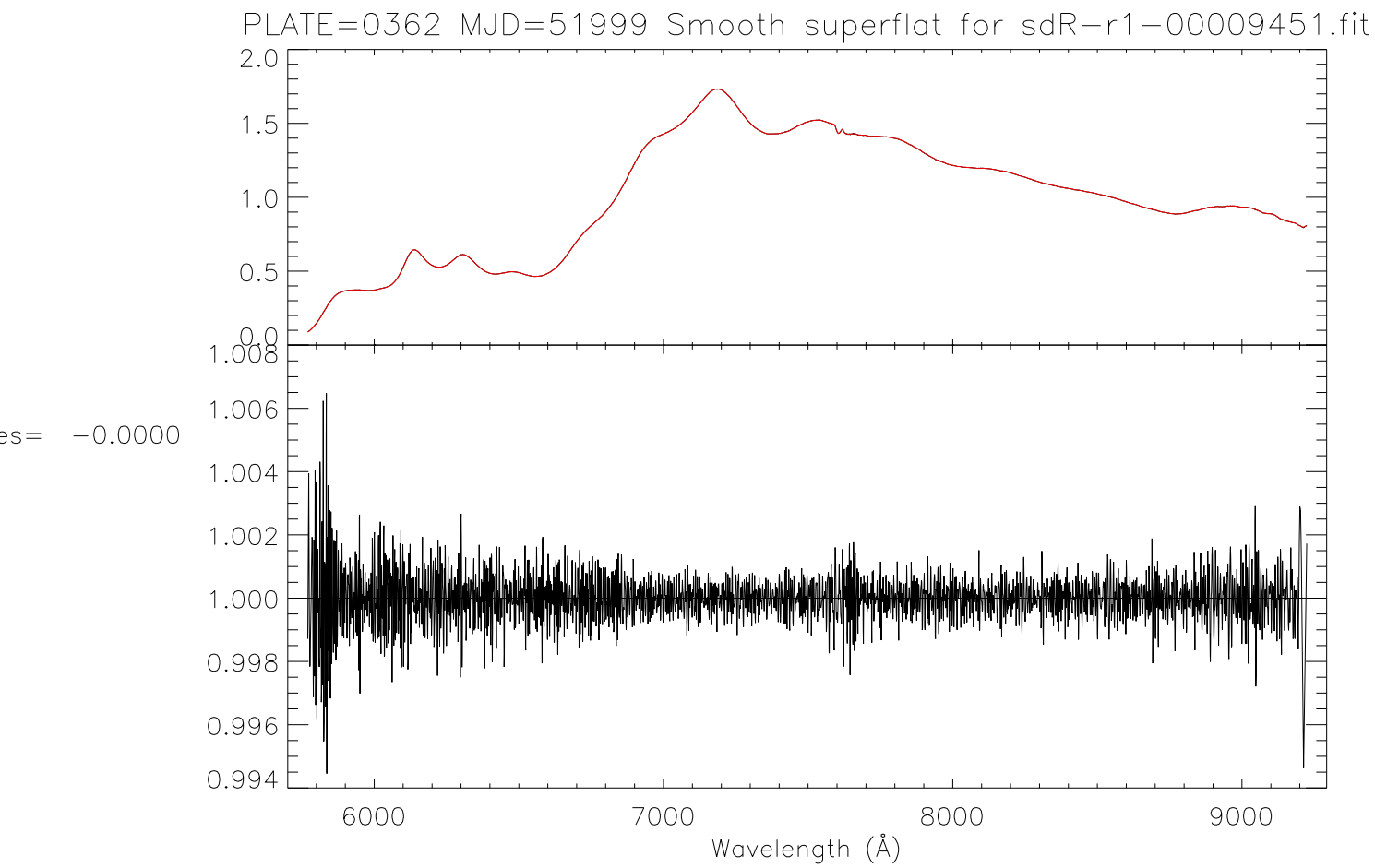

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


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

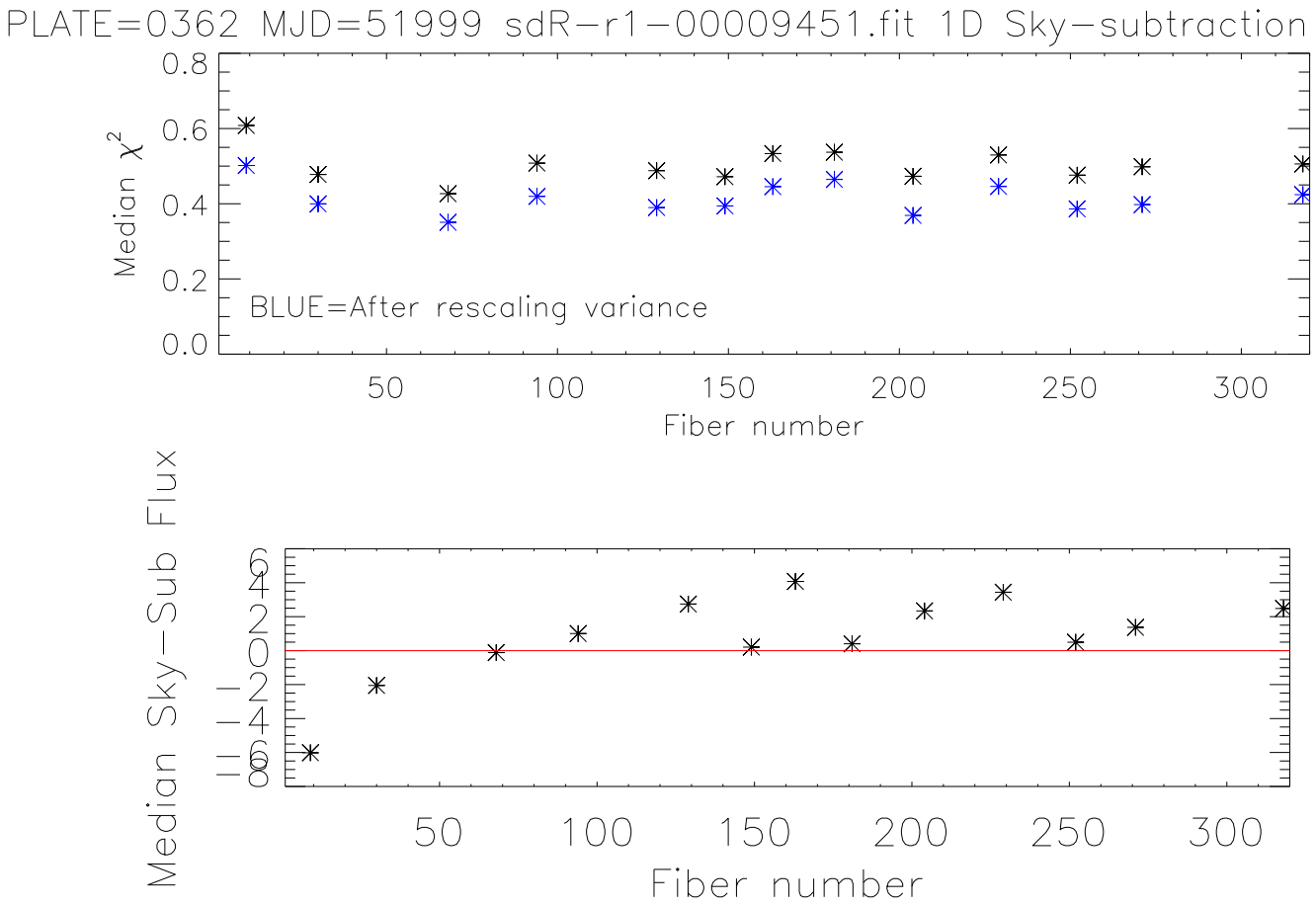

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400


6300.3040
mfhi2 16
stdev 0.016
extra 0.12
6363.7760
mfhi2 16
stdev 0.019
extra 0.11
6553.6100
mfhi2 16
stdev 0.062
extra 0.09
6923.2100
mfhi2 16
stdev 0.041
extra 0.13
6949.0300
mfhi2 16
stdev 0.042
extra 0.20
7571.7500
mfhi2 16
stdev 0.045
extra 0.20
7794.1200
mfhi2 16
stdev 0.026
extra 0.05
7821.5100
mfhi2 16
stdev 0.027
extra 0.09
8399.1600
mfhi2 16
stdev 0.024
extra 0.14
8430.1700
mfhi2 16
stdev 0.019
extra 0.11
8885.8300
mfhi2 15
stdev 0.024
extra 0.13
8919.6100
mfhi2 15
stdev 0.038
extra 0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

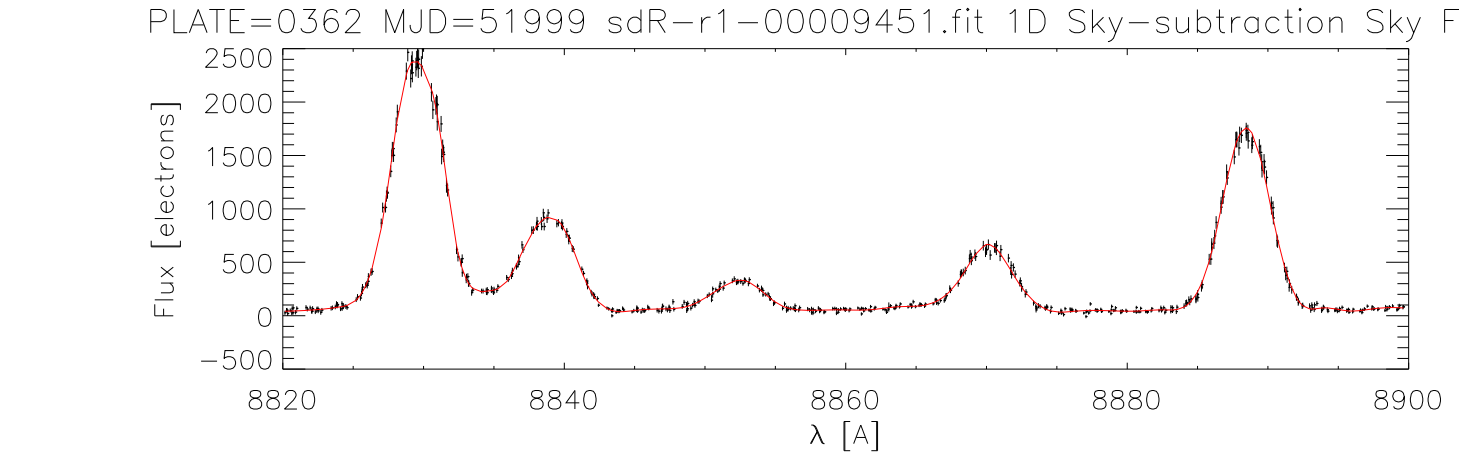

sky shift, pixels
0.20
0.15
0.10
0.05
5000
6000
7000
8000
9000
10000

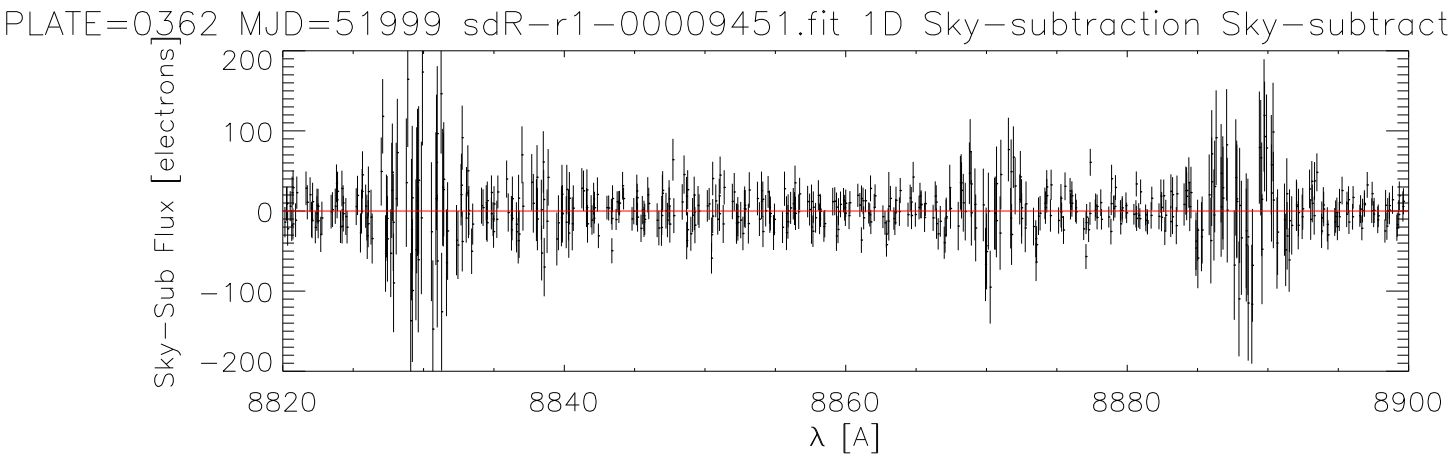

PLATE=0362 MJD=51999 Smooth superflat for sdR-r1-00009451.fit
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

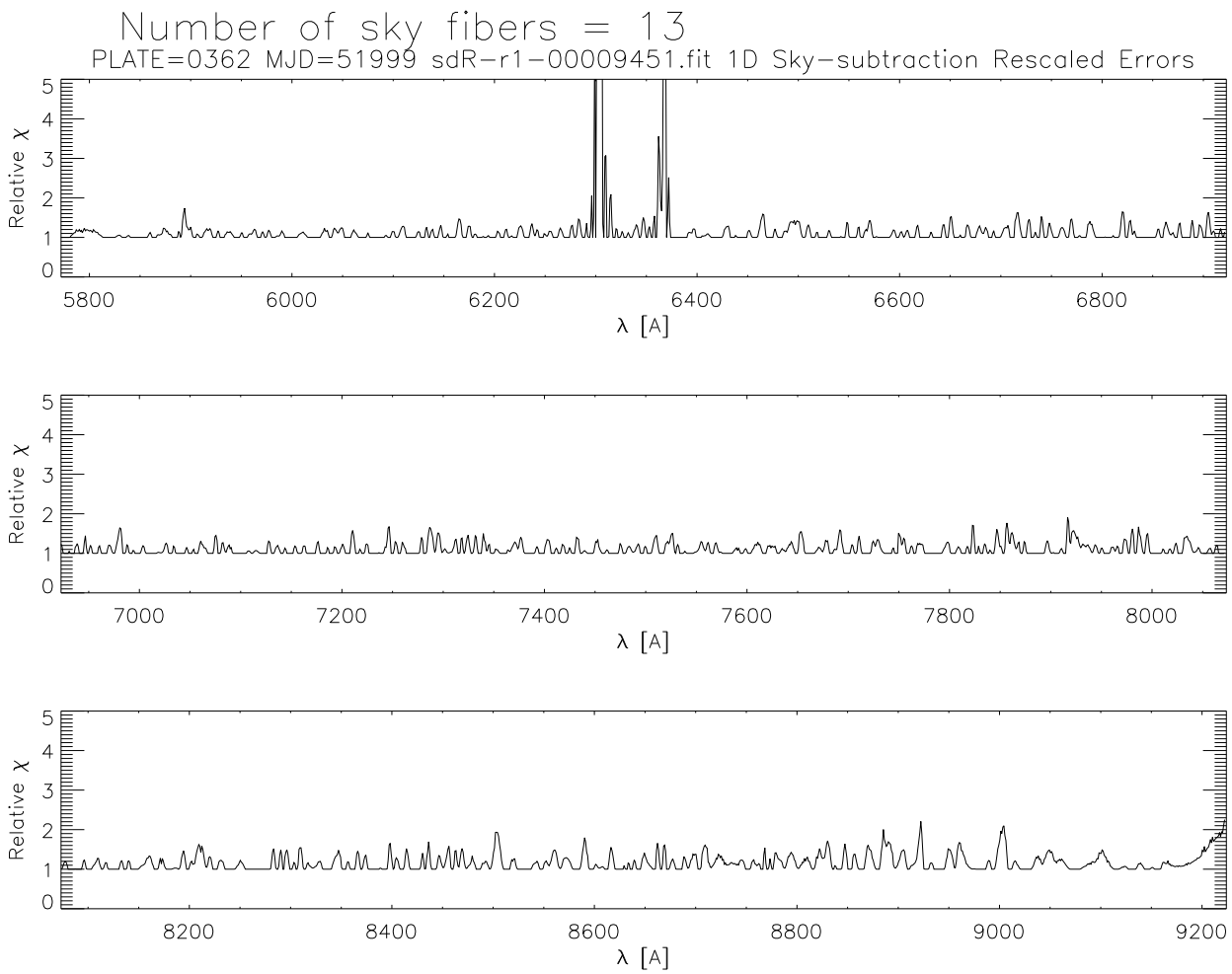
es= −0.0000

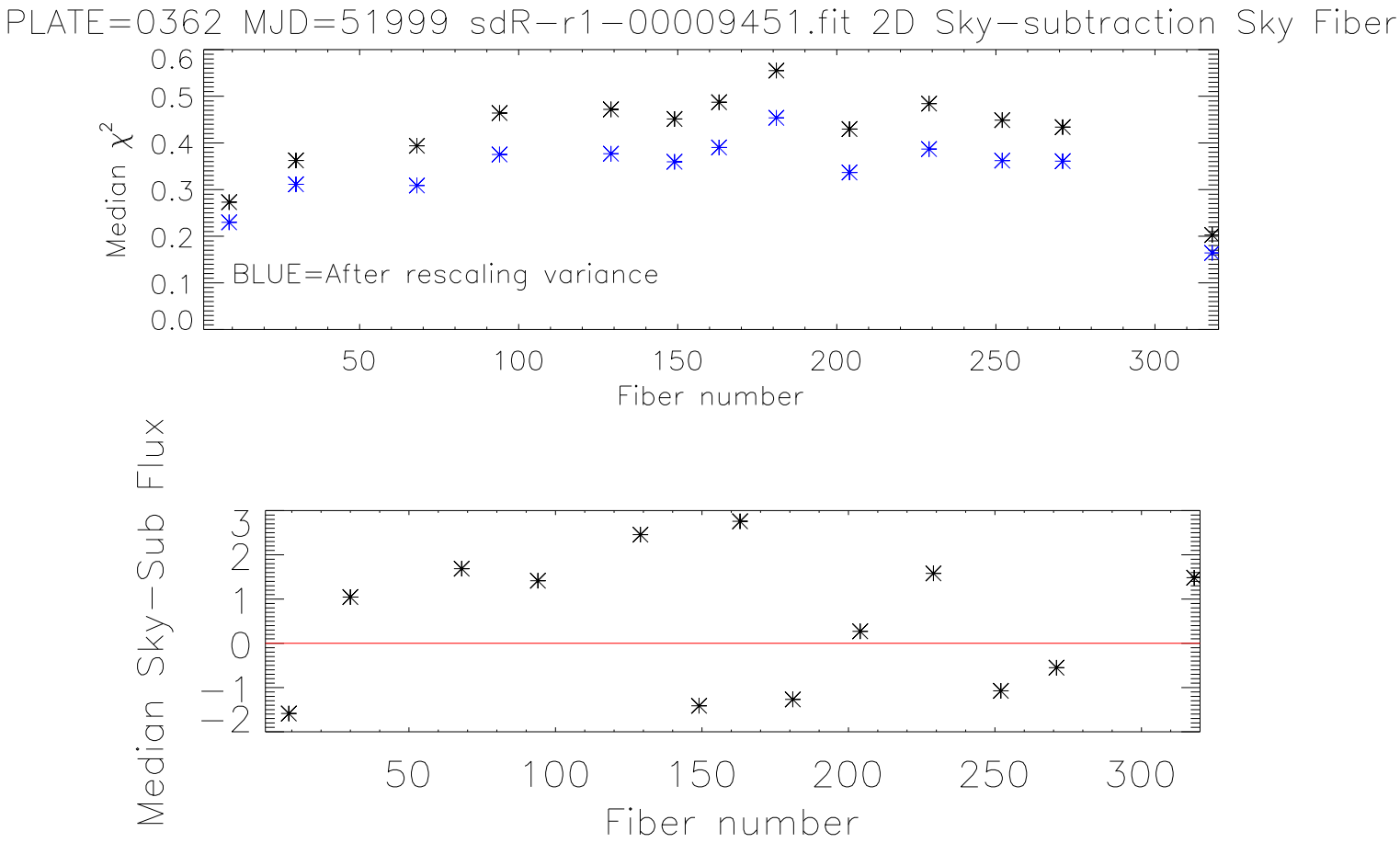

PLATE=0362 MJD=51999 sdR-r1-00009451.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

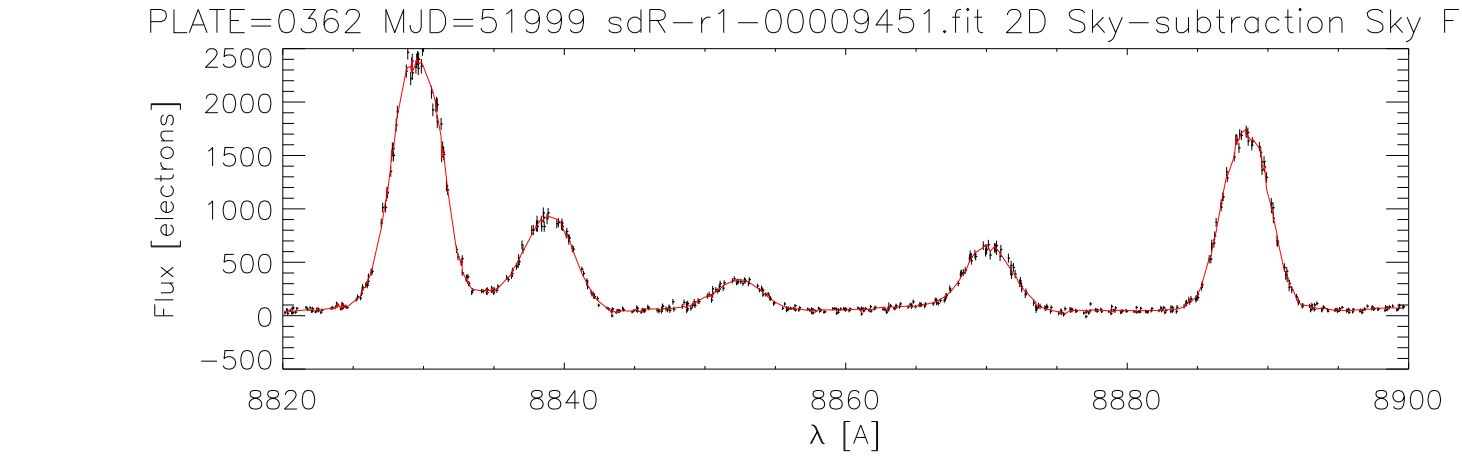
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

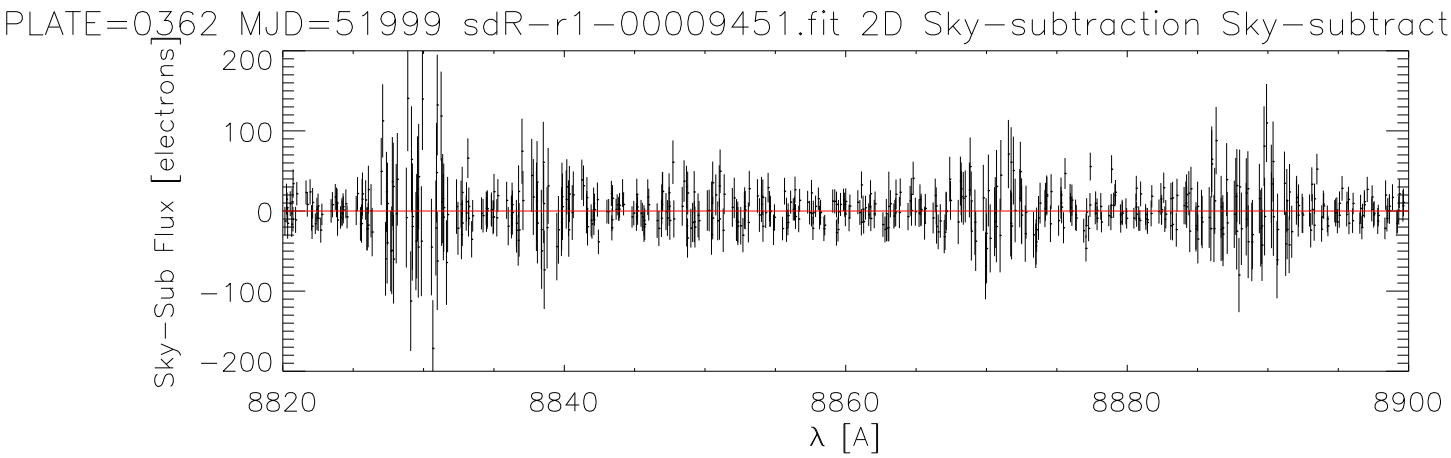

PLATE=0362 MJD=51999 sdR-r1-00009451.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

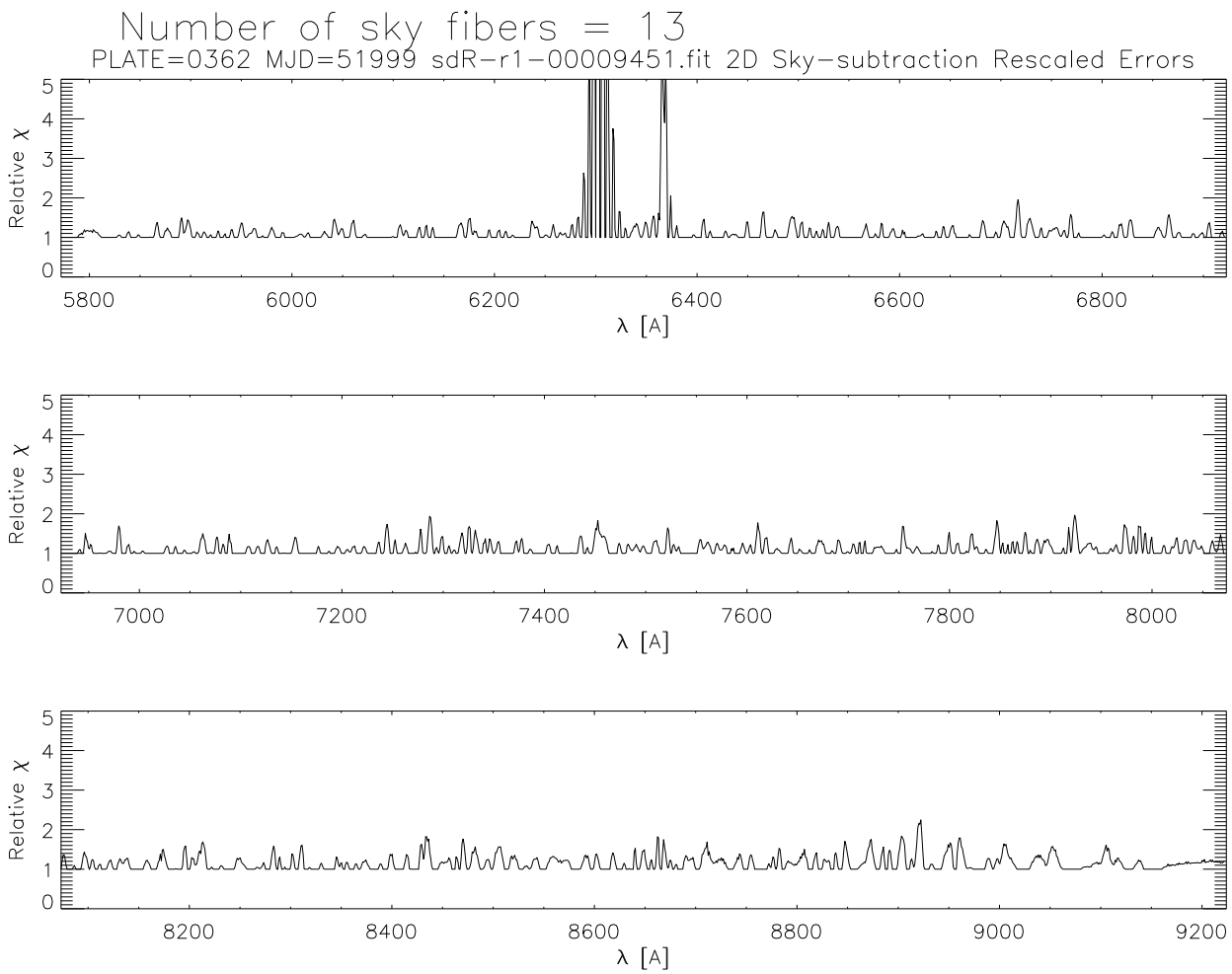

PLATE=0362 MJD=51999 sdR-r1-00009451.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

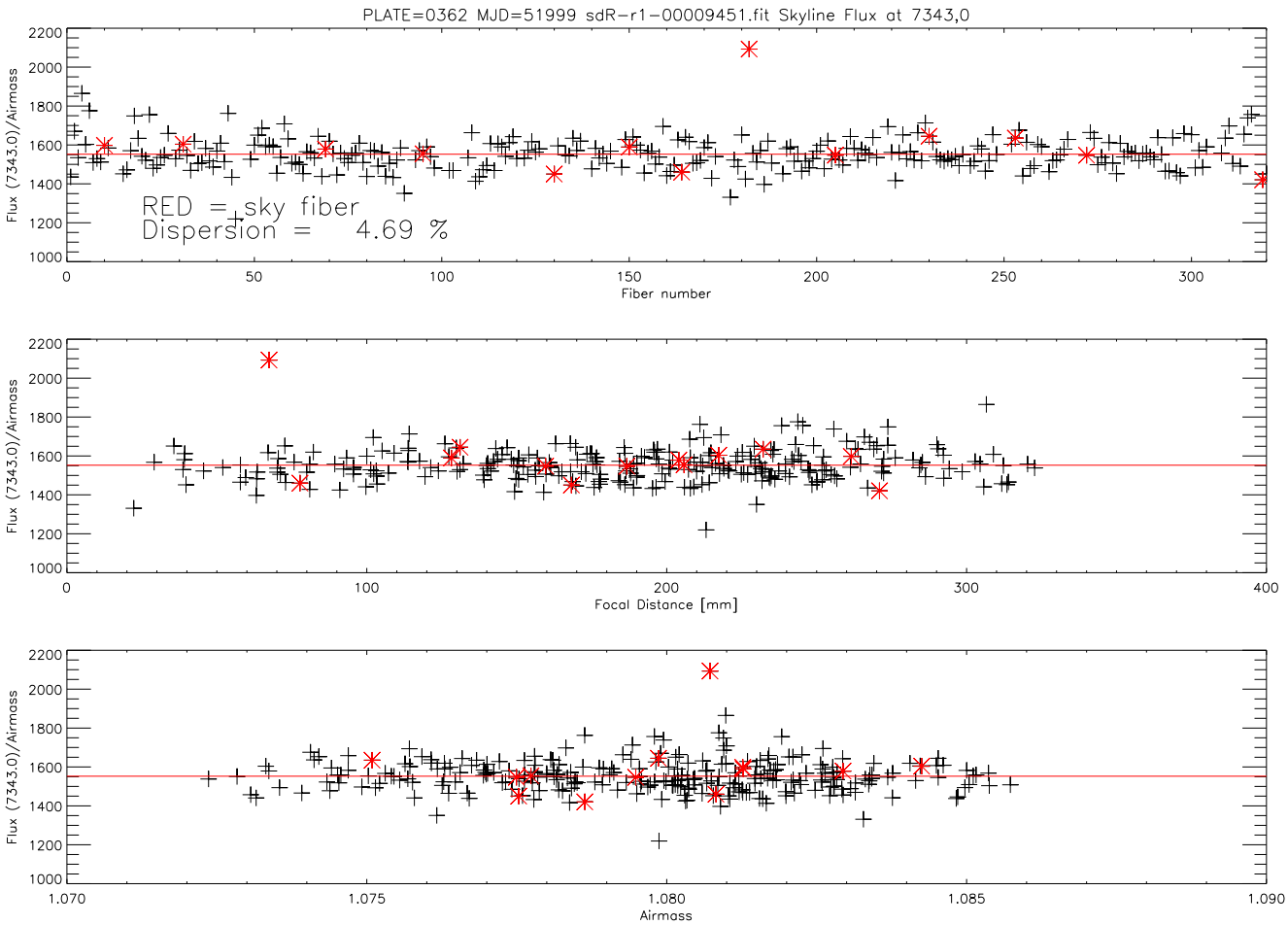

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r1-00009451.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

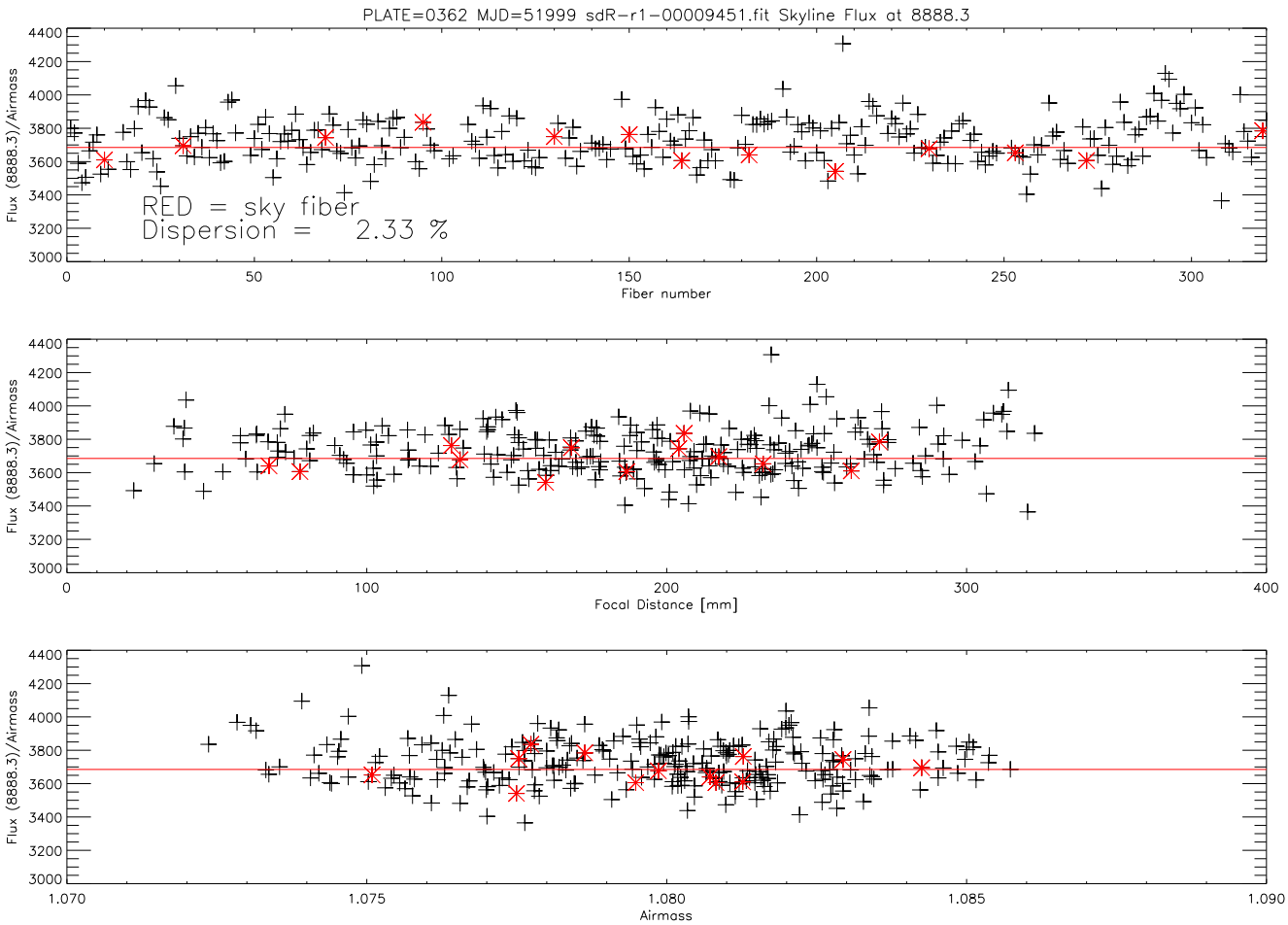

PLATE=0362 MJD=51999 sdR-r1-00009451.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

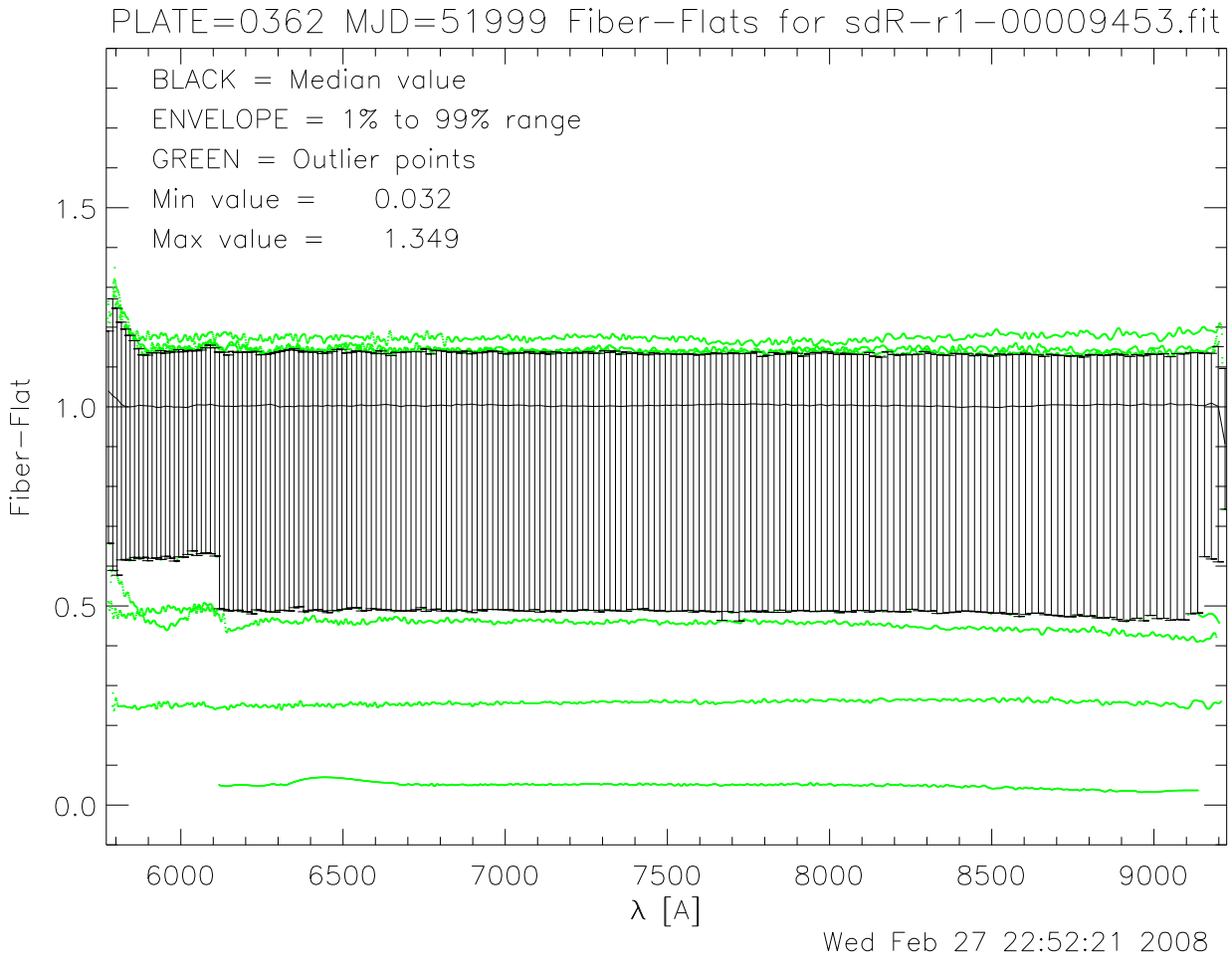

PLATE=0362 MJD=51999 sdR-r1-00009451.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

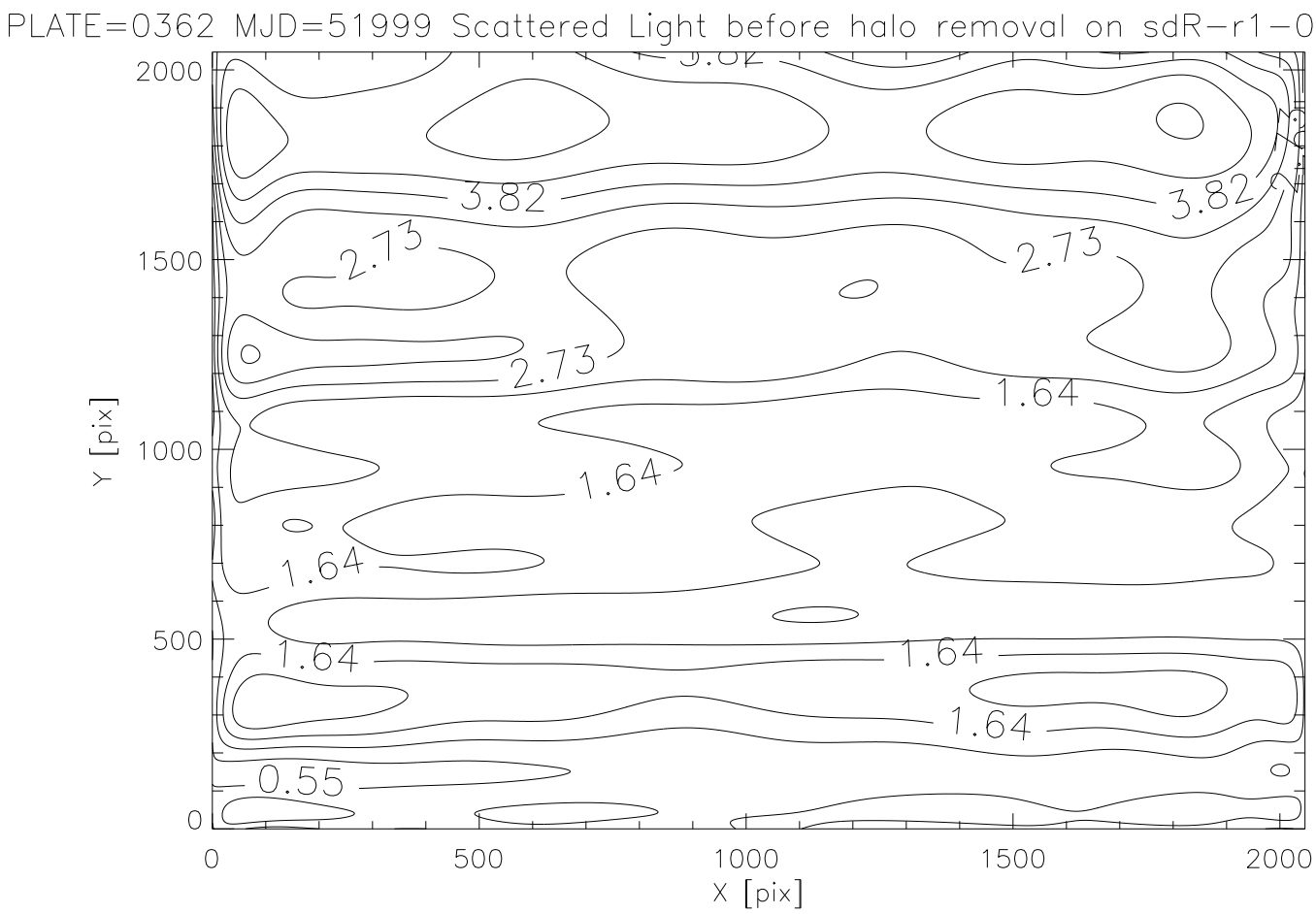

PLATE=0362 MJD=51999 sdR-r1-00009451.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
−100
−200
8820
8840
8860
8880
8900
λ [A]

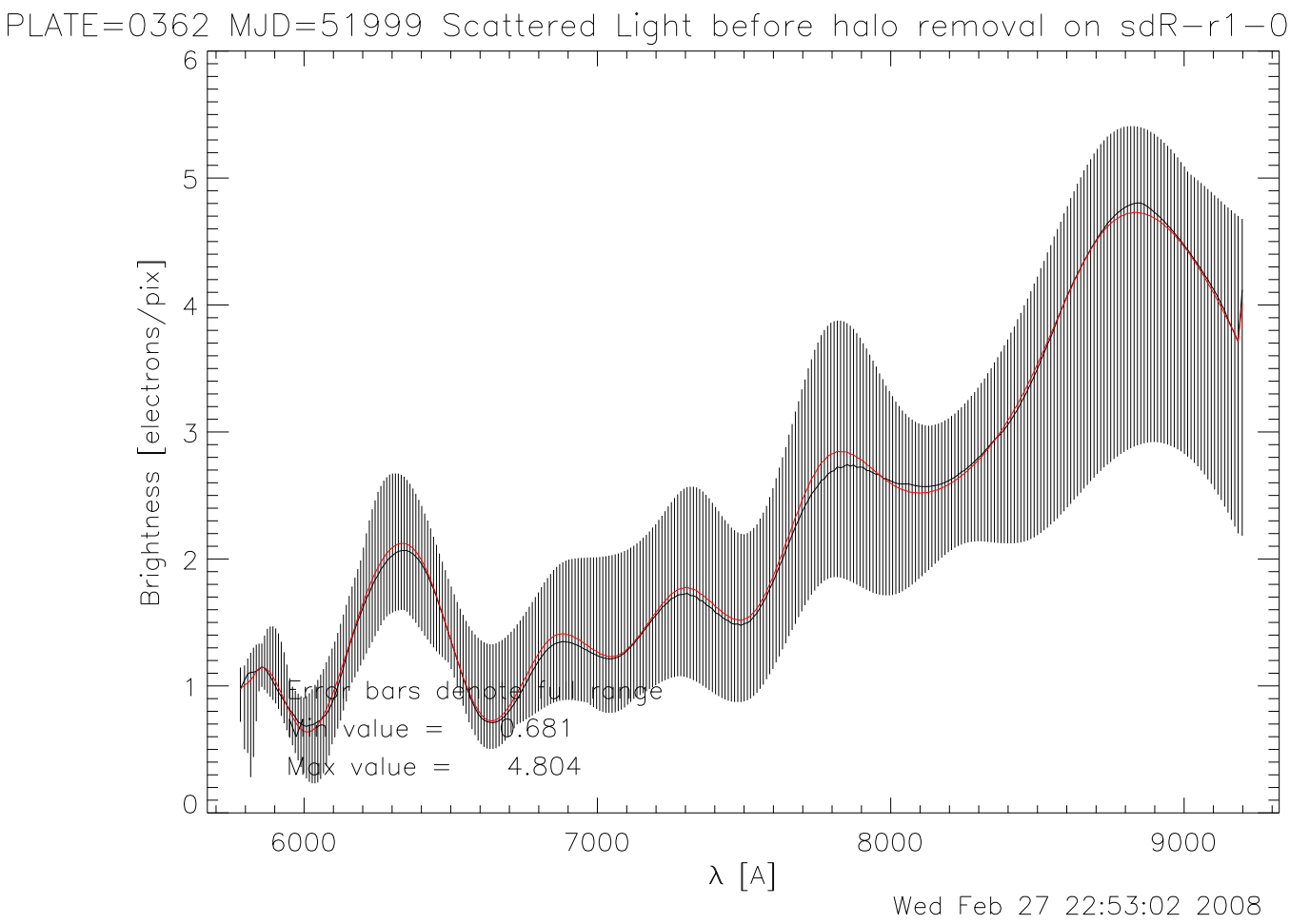

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r1-00009451.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

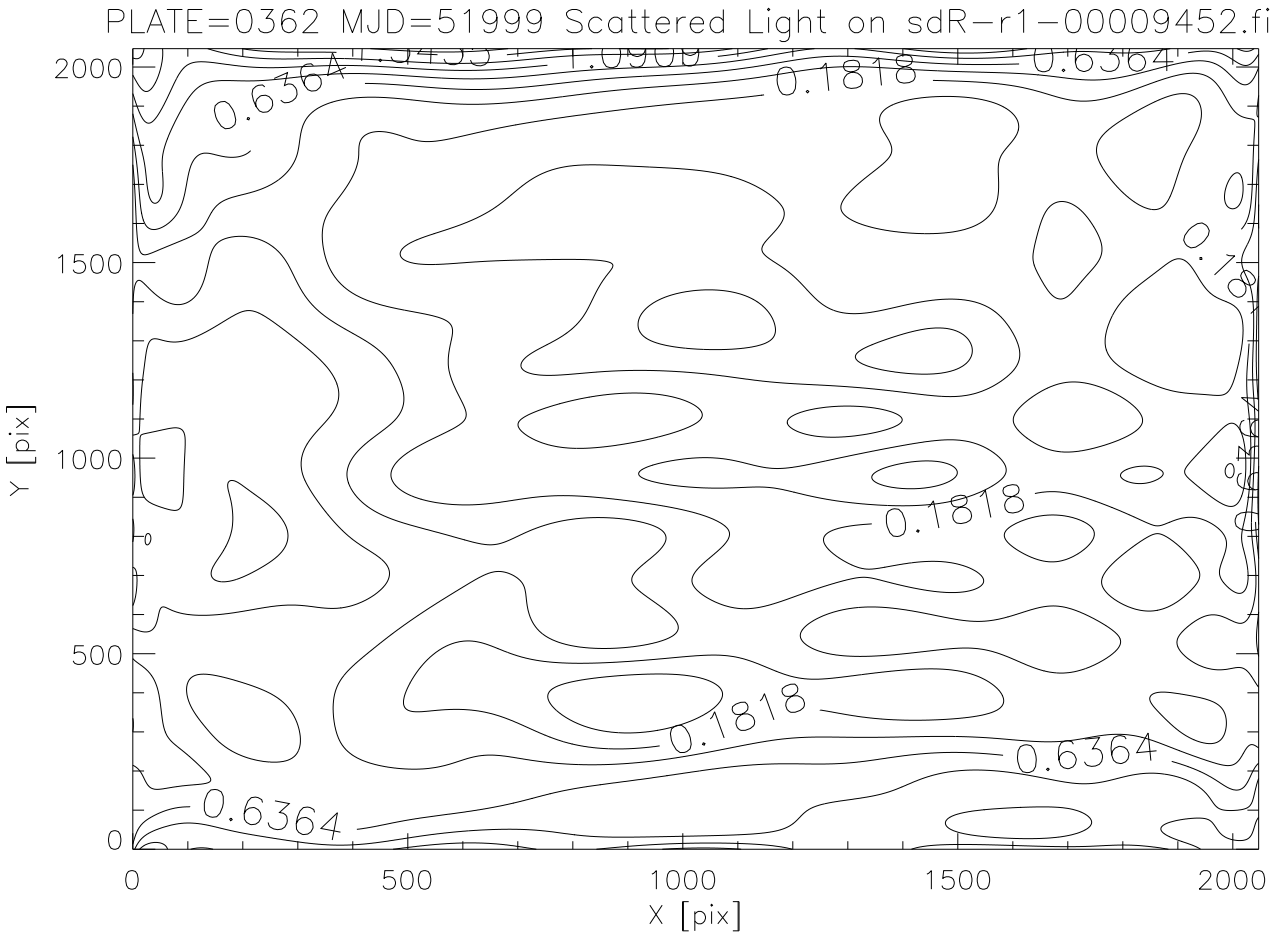

PLATE=0362 MJD=51999 sdR-r1-00009451.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.69 %
Fiber number
Focal Distance [mm]
Airmass

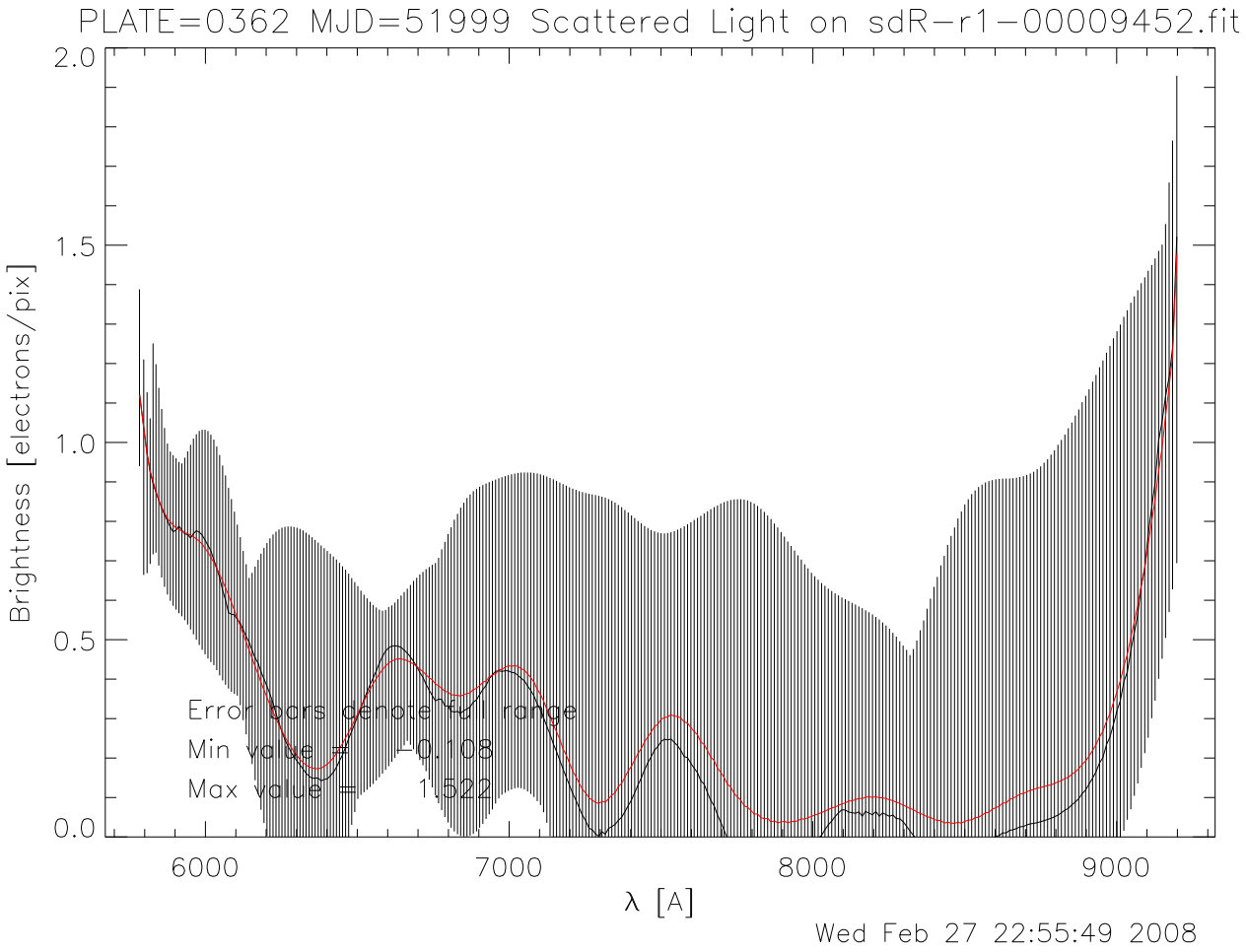

PLATE=0362 MJD=51999 sdR-r1-00009451.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.33 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

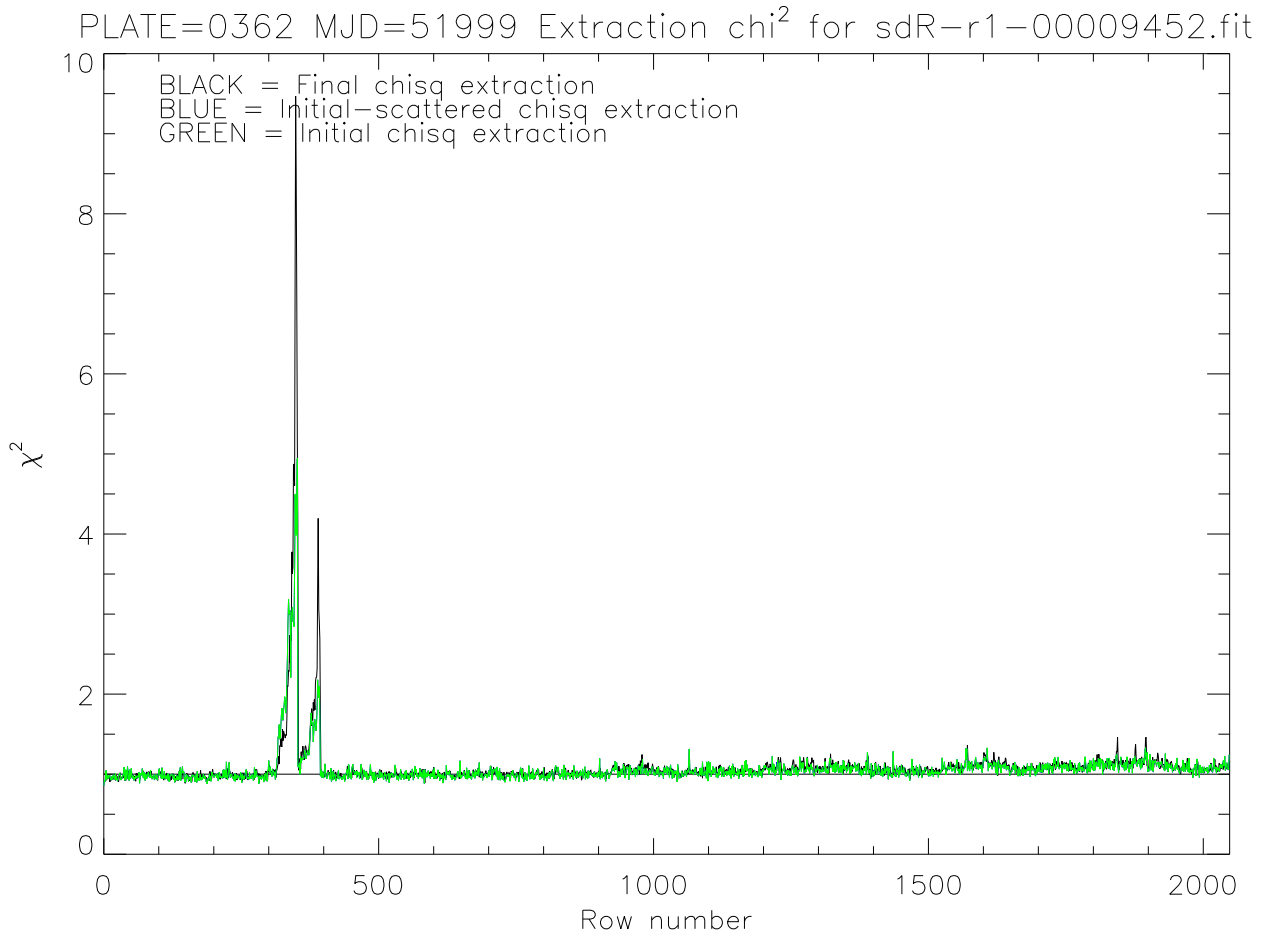

PLATE=0362 MJD=51999 Fiber−Flats for sdR−r1−00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.032
Max value = 1.349
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 22:52:21 2008

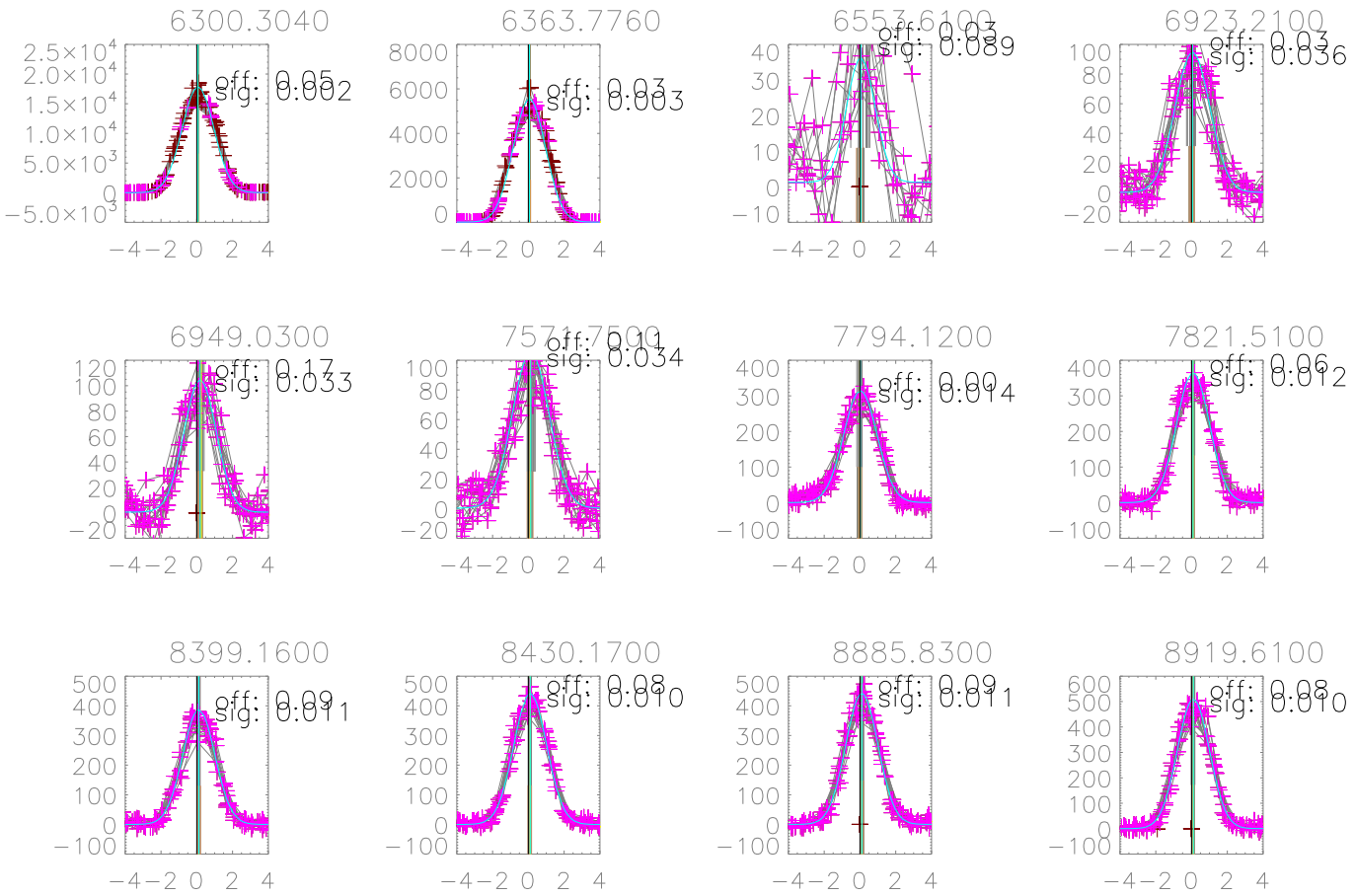

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r1-00009452.fi
3.82
2.73
1.64
0.55
Y [pix]
X [pix]
0
500
1000
1500
2000

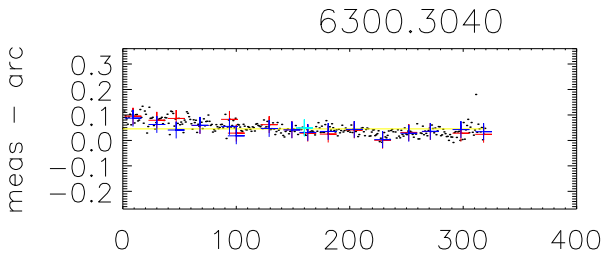

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r1-00009452.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.681
Max value = 4.804
Wed Feb 27 22:53:02 2008

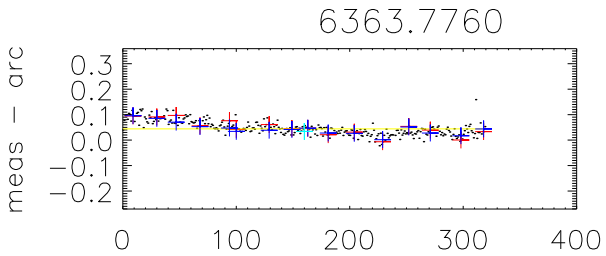

PLATE=0362 MJD=51999 Scattered Light on sdR−r1−00009452.fit
0.6364
0.1818
0.6364
0.1818
0.1818
0.6364
0.6364
0.1818
0.6364
0.1818
0.6364
0.1818

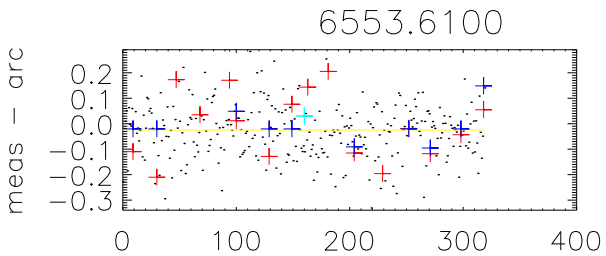

PLATE=0362 MJD=51999 Scattered Light on sdR-r1-00009452.fit
Brightness [electrons/pix]
2.0
1.5
1.0
0.5
0.0
6000
7000
8000
9000
λ [A]
Error bars denote 1σ range
Min value = -0.108
Max value = 1.522
Wed Feb 27 22:55:49 2008

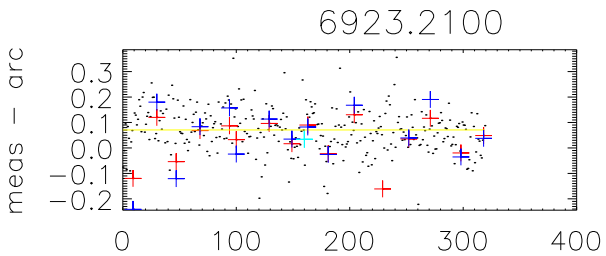

PLATE=0362 MJD=51999 Extraction chi^2 for sdR−r1−00009452.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

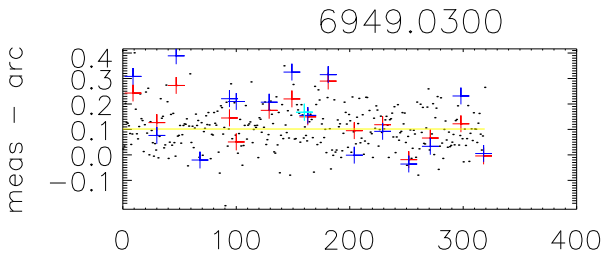

6300.3040
off: 0.05
sig: 0.002
6363.7760
off: 0.03
sig: 0.003
6553.6100
off: 0.03
sig: 0.089
6923.2100
off: 0.03
sig: 0.036
6949.0300
off: 0.17
sig: 0.033
7571.7500
off: 0.01
sig: 0.034
7794.1200
off: 0.00
sig: 0.014
7821.5100
off: 0.06
sig: 0.012
8399.1600
off: 0.09
sig: 0.011
8430.1700
off: 0.08
sig: 0.010
8885.8300
off: 0.09
sig: 0.011
8919.6100
off: 0.08
sig: 0.010

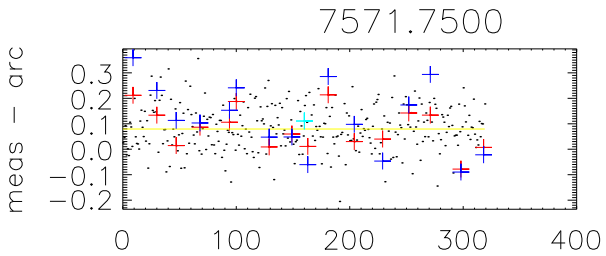

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

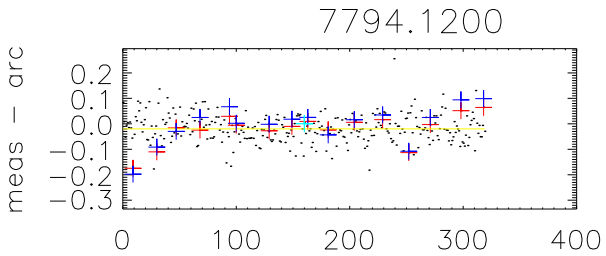

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

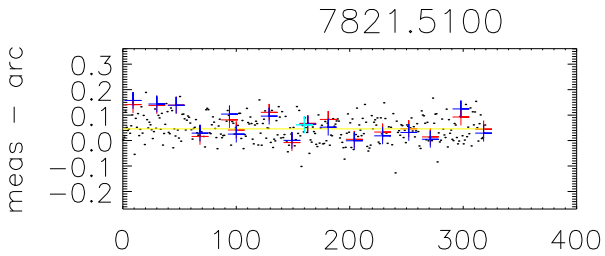

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

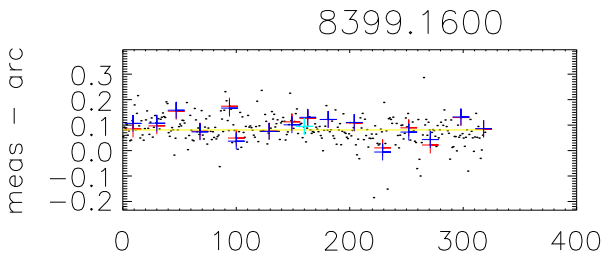

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

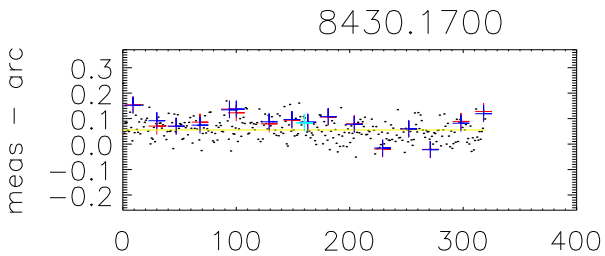

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

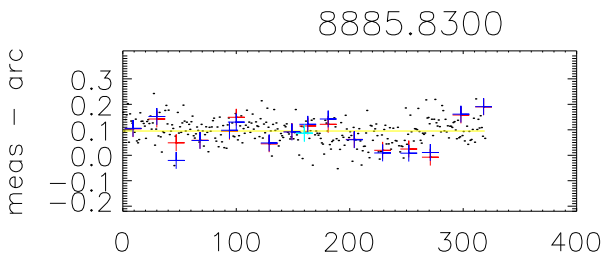

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

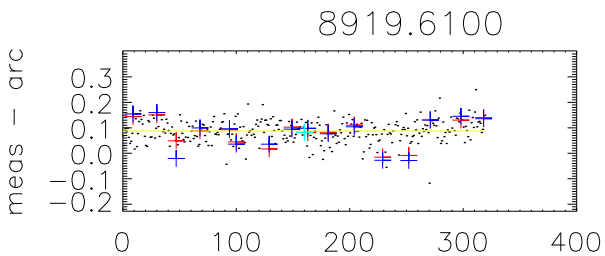

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

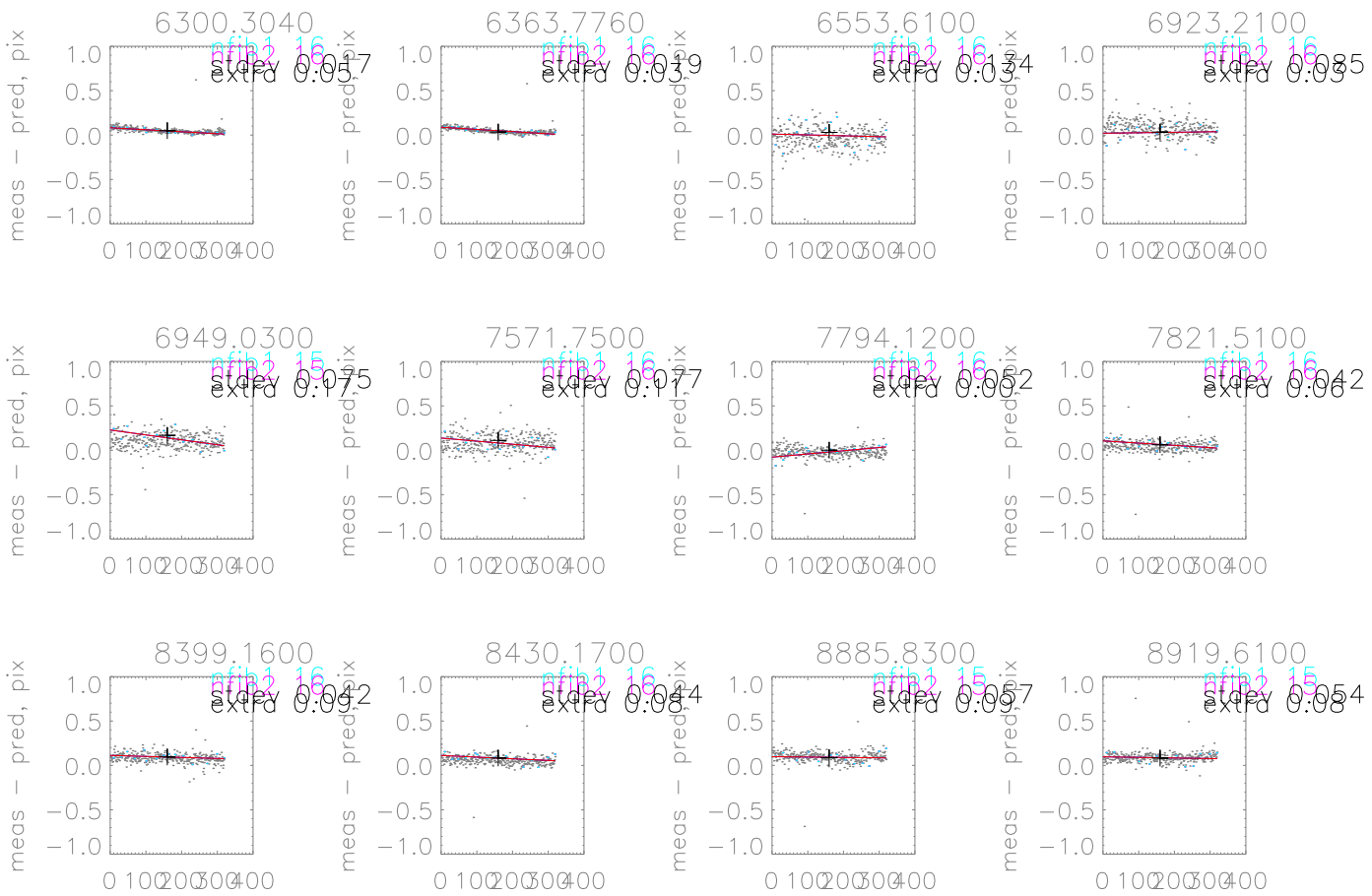

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

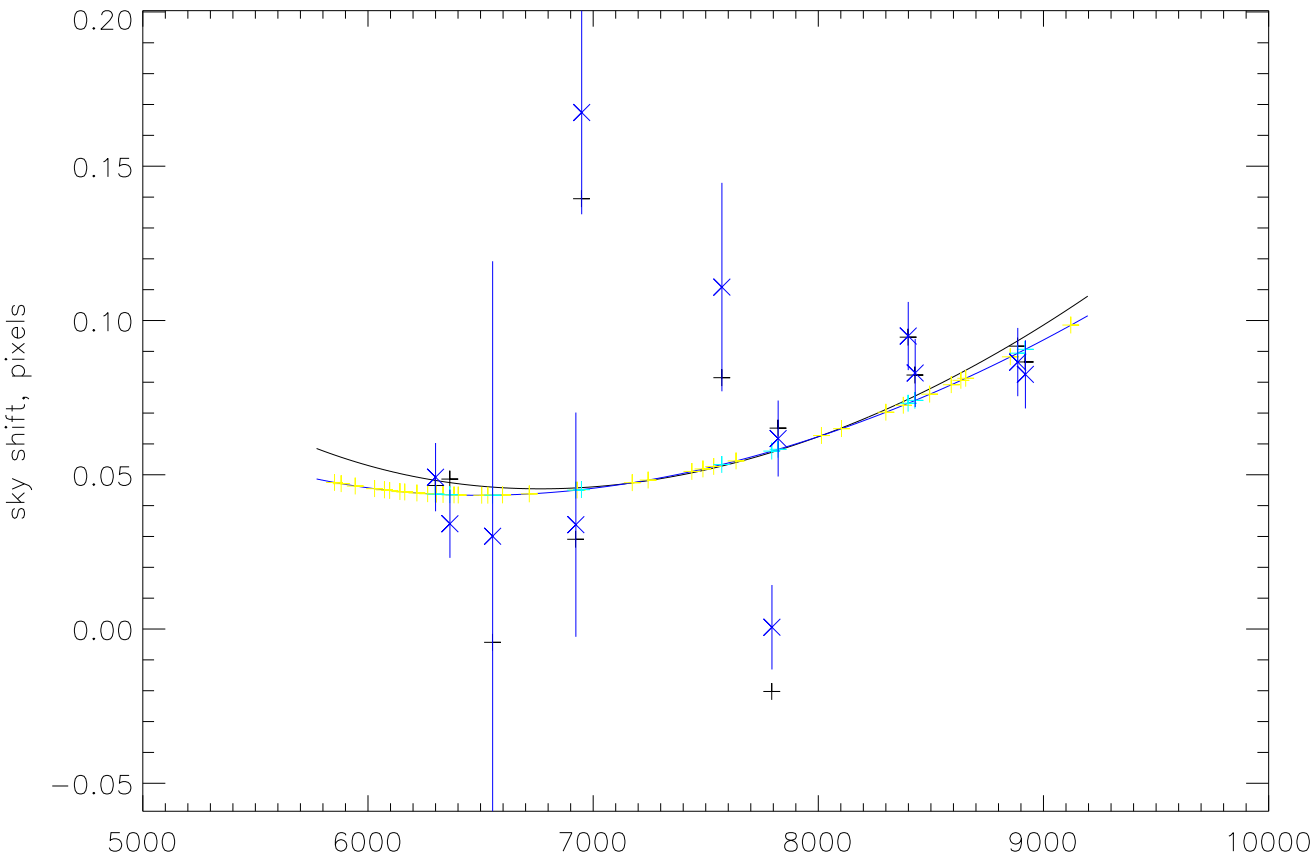

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

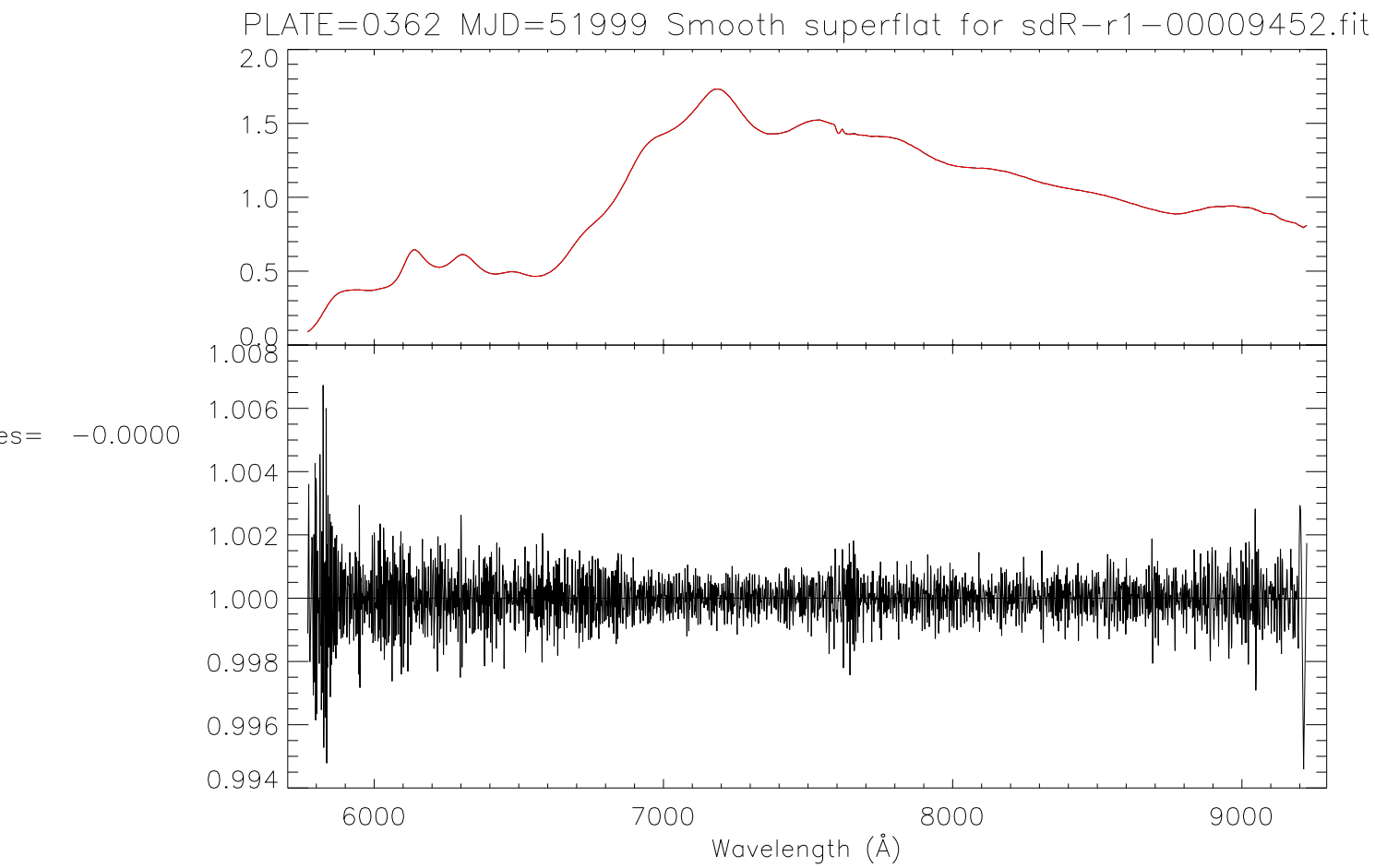

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

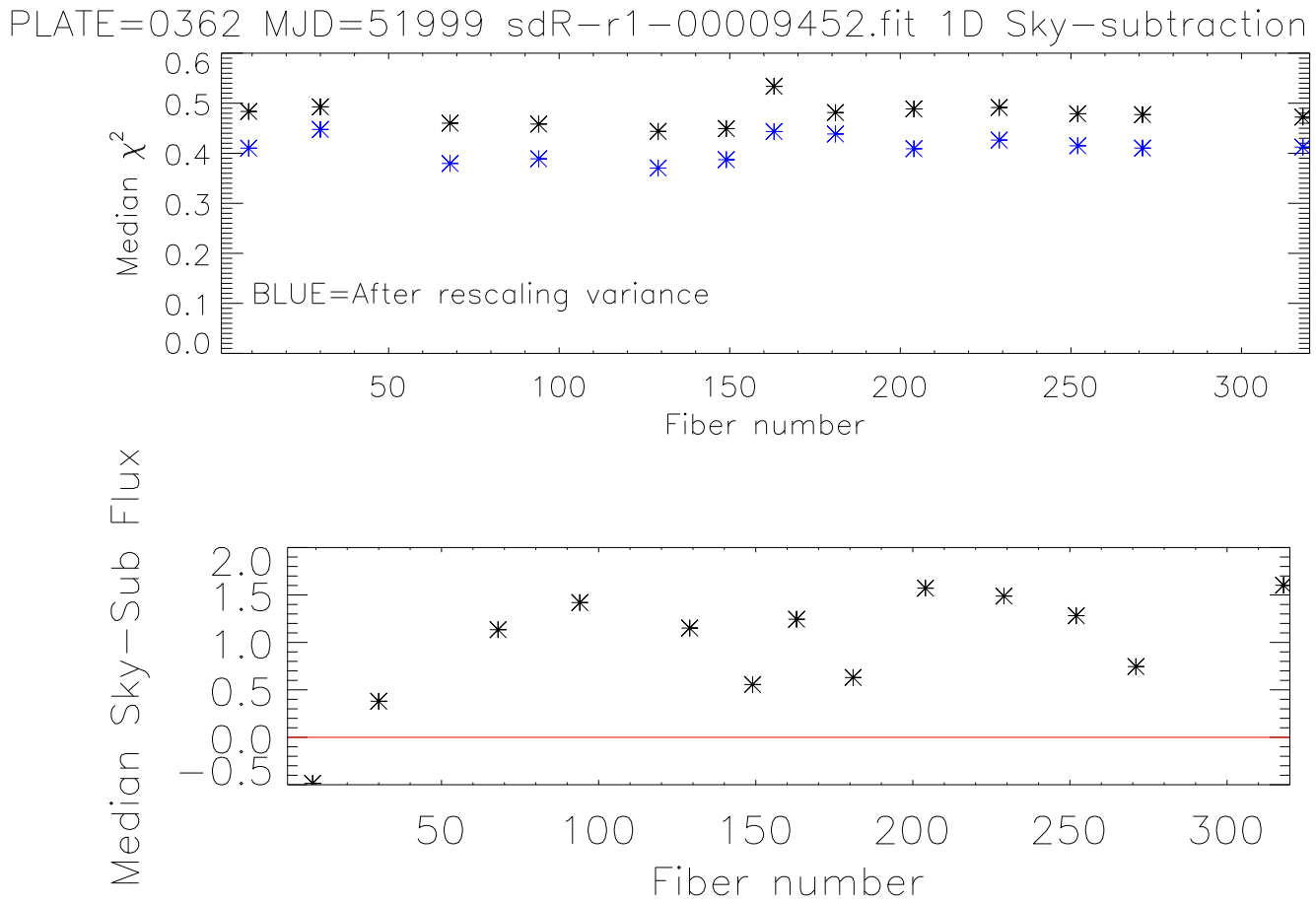

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

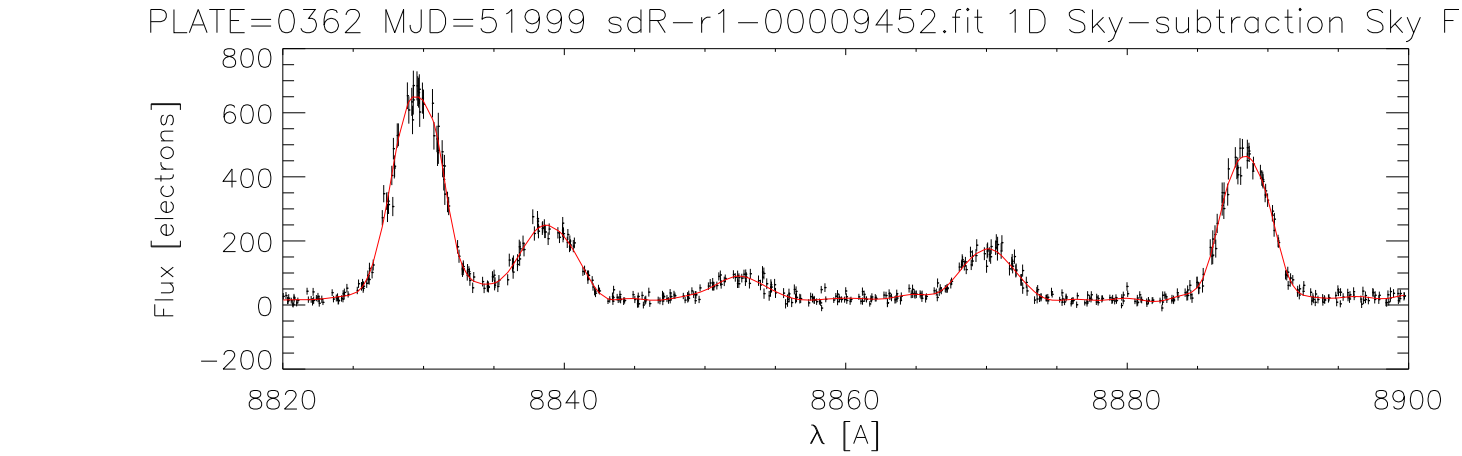

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

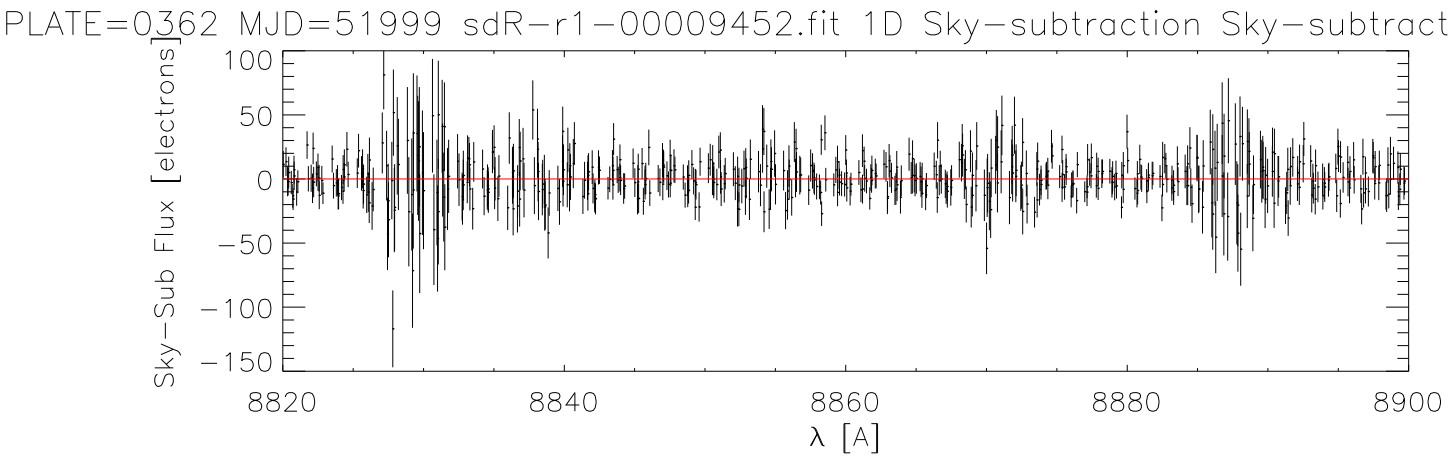

6300.3040
mfib1 16
mfib2 16
stdev 0.057
extra 0.05
6363.7760
mfib1 16
mfib2 16
stdev 0.059
extra 0.03
6553.6100
mfib1 16
mfib2 16
stdev 0.134
extra 0.03
6923.2100
mfib1 16
mfib2 16
stdev 0.085
extra 0.03
6949.0300
mfib1 15
mfib2 16
stdev 0.075
extra 0.17
7571.7500
mfib1 16
mfib2 16
stdev 0.077
extra 0.11
7794.1200
mfib1 16
mfib2 16
stdev 0.052
extra 0.00
7821.5100
mfib1 16
mfib2 16
stdev 0.042
extra 0.06
8399.1600
mfib1 16
mfib2 16
stdev 0.042
extra 0.09
8430.1700
mfib1 16
mfib2 16
stdev 0.044
extra 0.08
8885.8300
mfib1 15
mfib2 15
stdev 0.057
extra 0.09
8919.6100
mfib1 15
mfib2 15
stdev 0.054
extra 0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

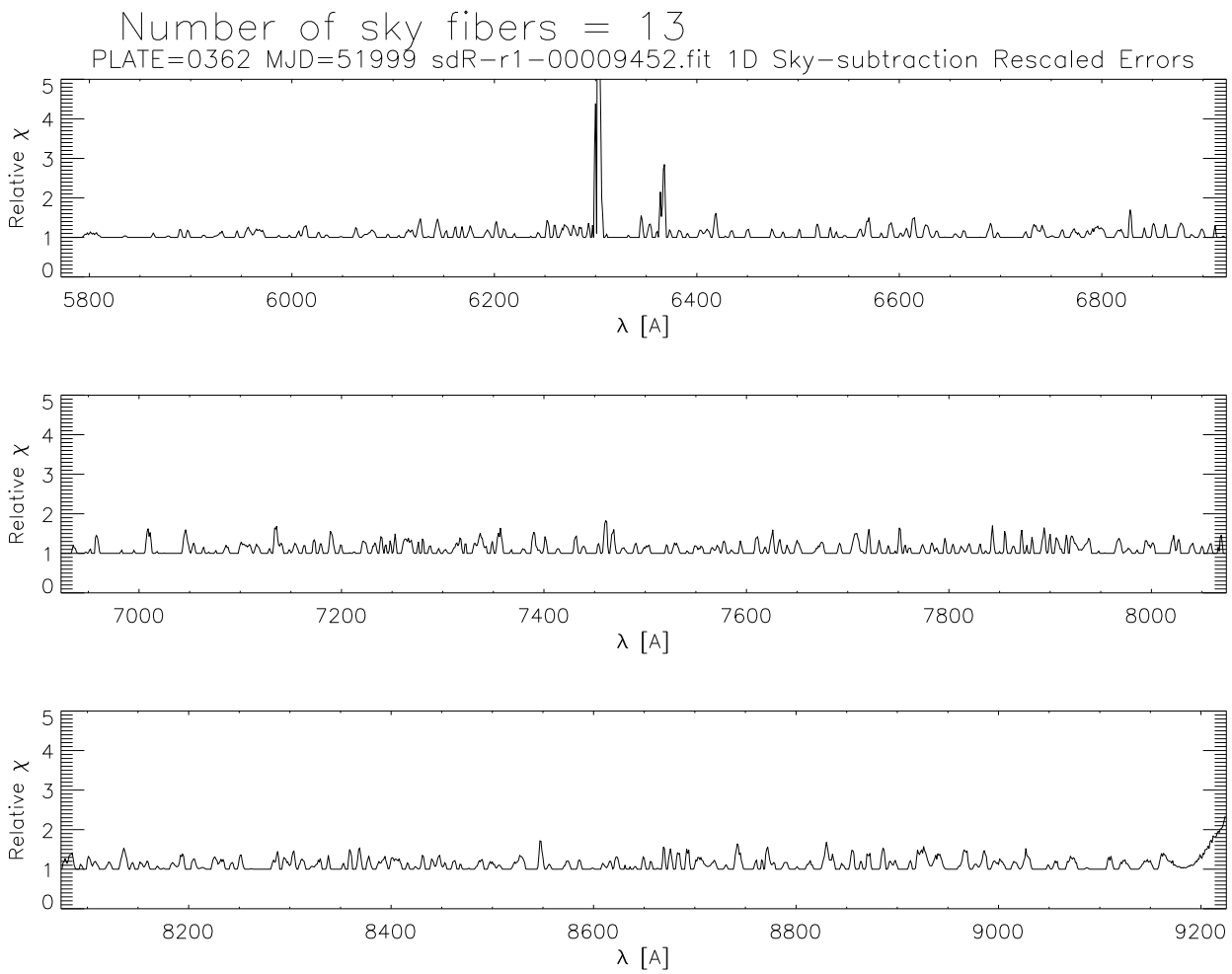

0.20
0.15
0.10
0.05
0.00
−0.05
sky shift, pixels
5000
6000
7000
8000
9000
10000

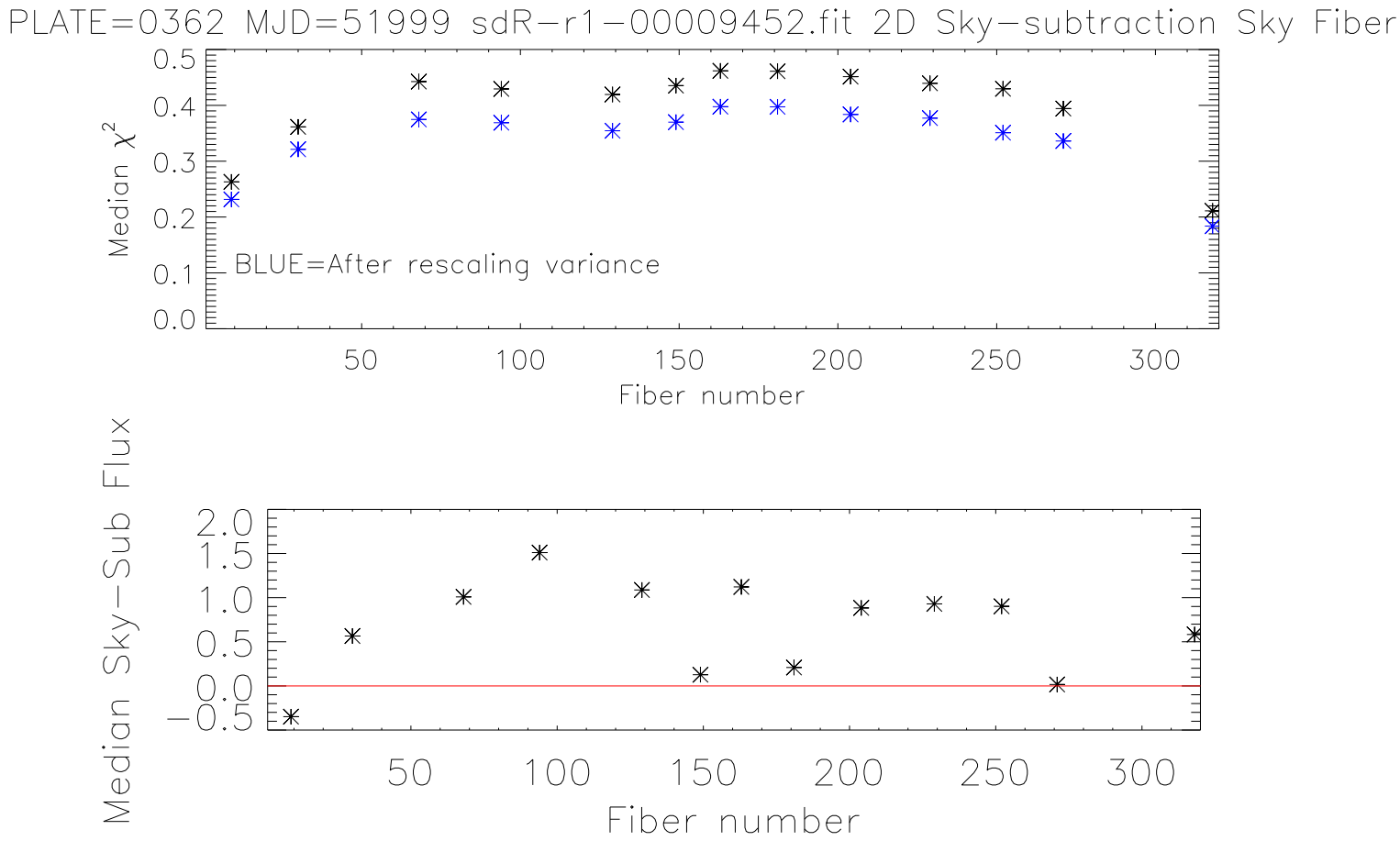

PLATE=0362 MJD=51999 Smooth superflat for sdR-r1-00009452.fit
es= -0.0000
2.0
1.5
1.0
0.5
0.0
1.008
1.006
1.004
1.002
1.000
0.998
0.996
0.994
6000
7000
8000
9000
Wavelength (Å)

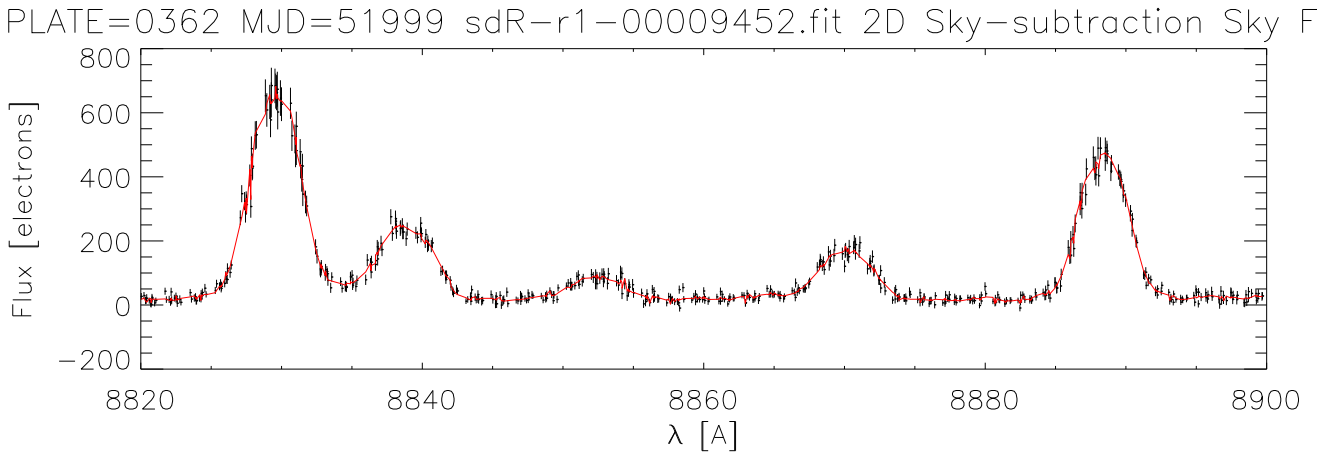

PLATE=0362 MJD=51999 sdR-r1-00009452.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

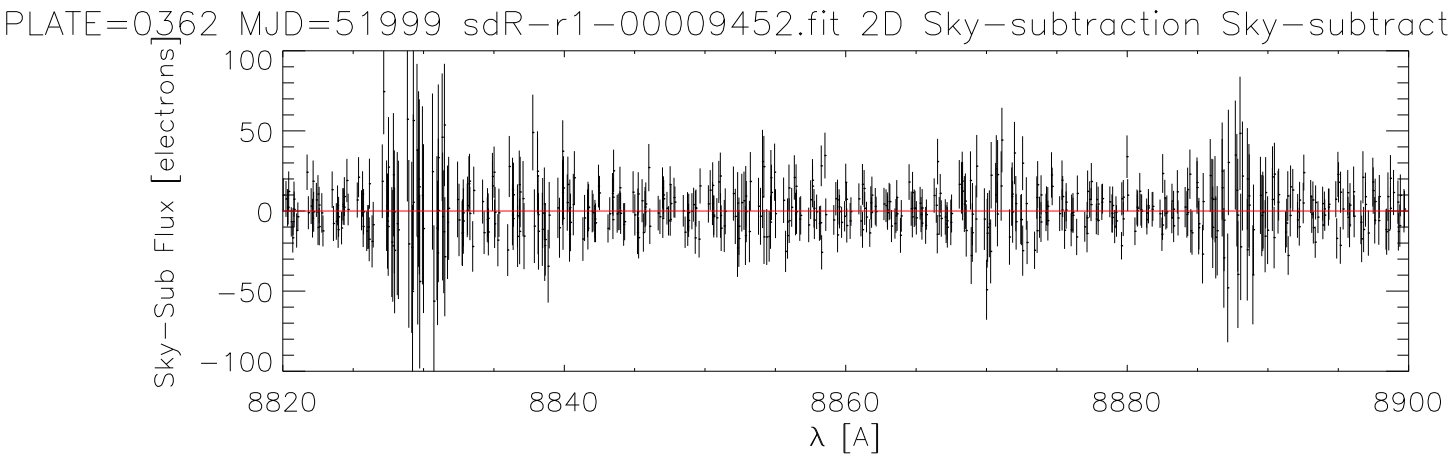

PLATE=0362 MJD=51999 sdR-r1-00009452.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

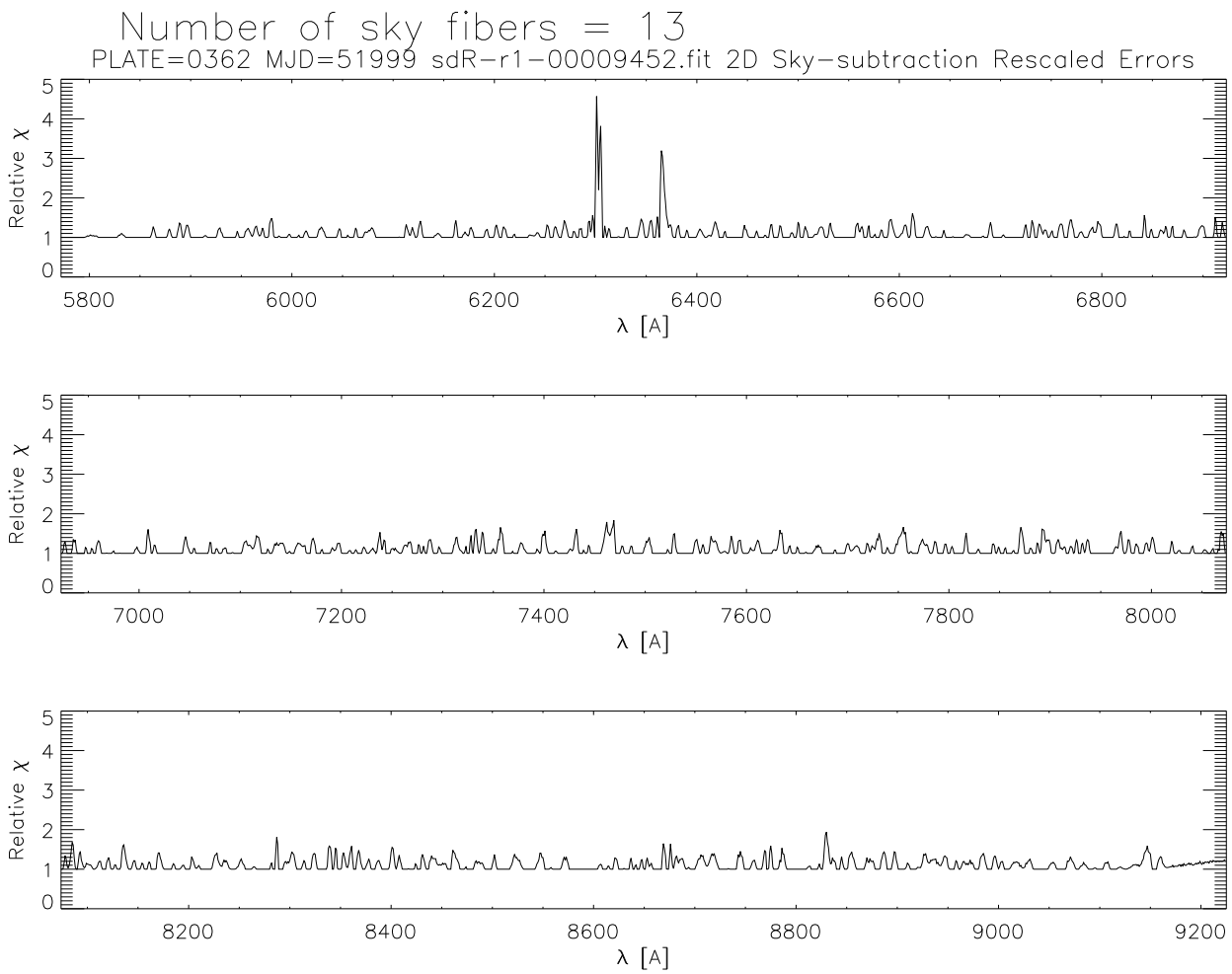

PLATE=0362 MJD=51999 sdR-r1-00009452.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

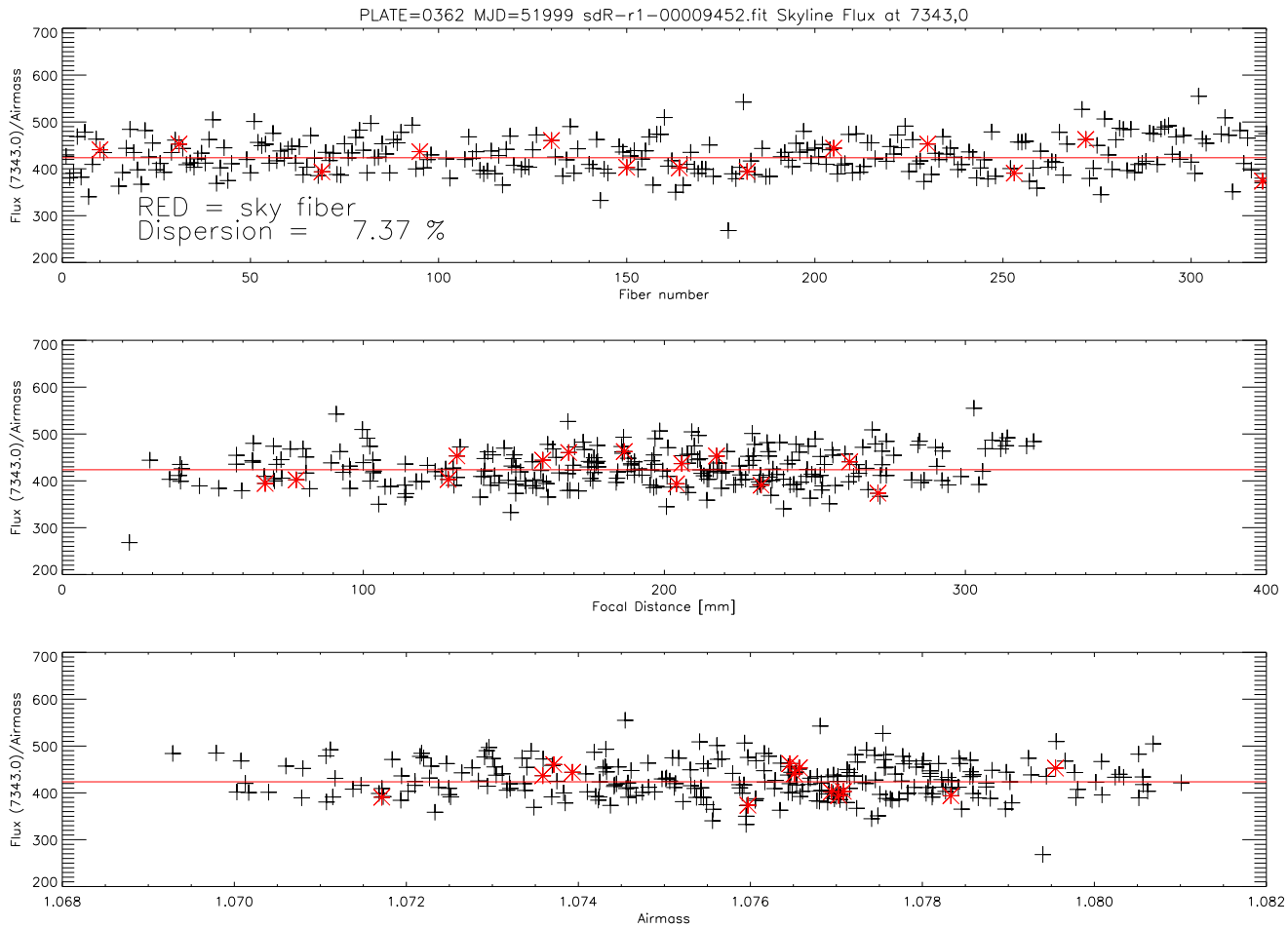

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r1-00009452.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

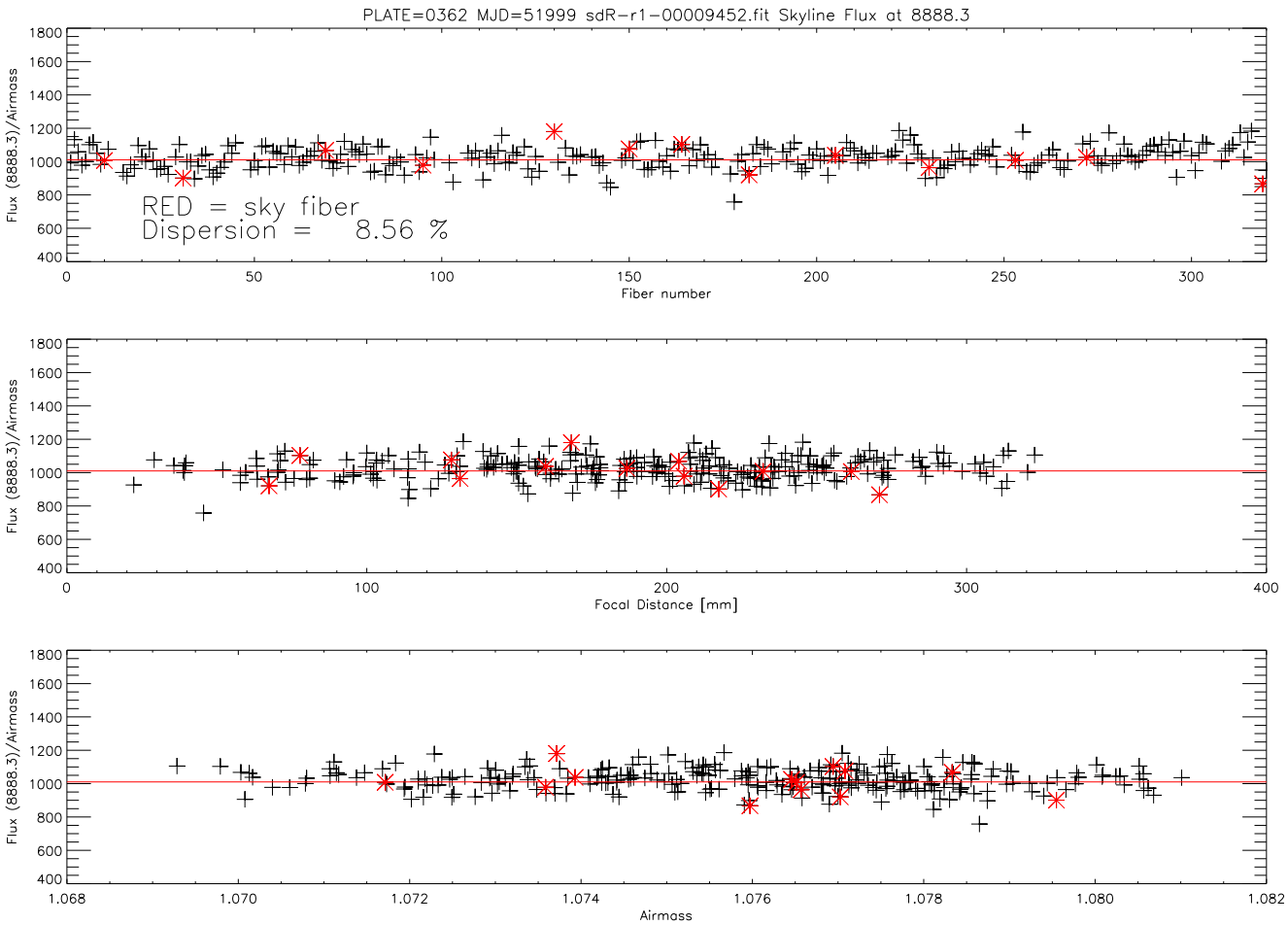

PLATE=0362 MJD=51999 sdR-r1-00009452.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

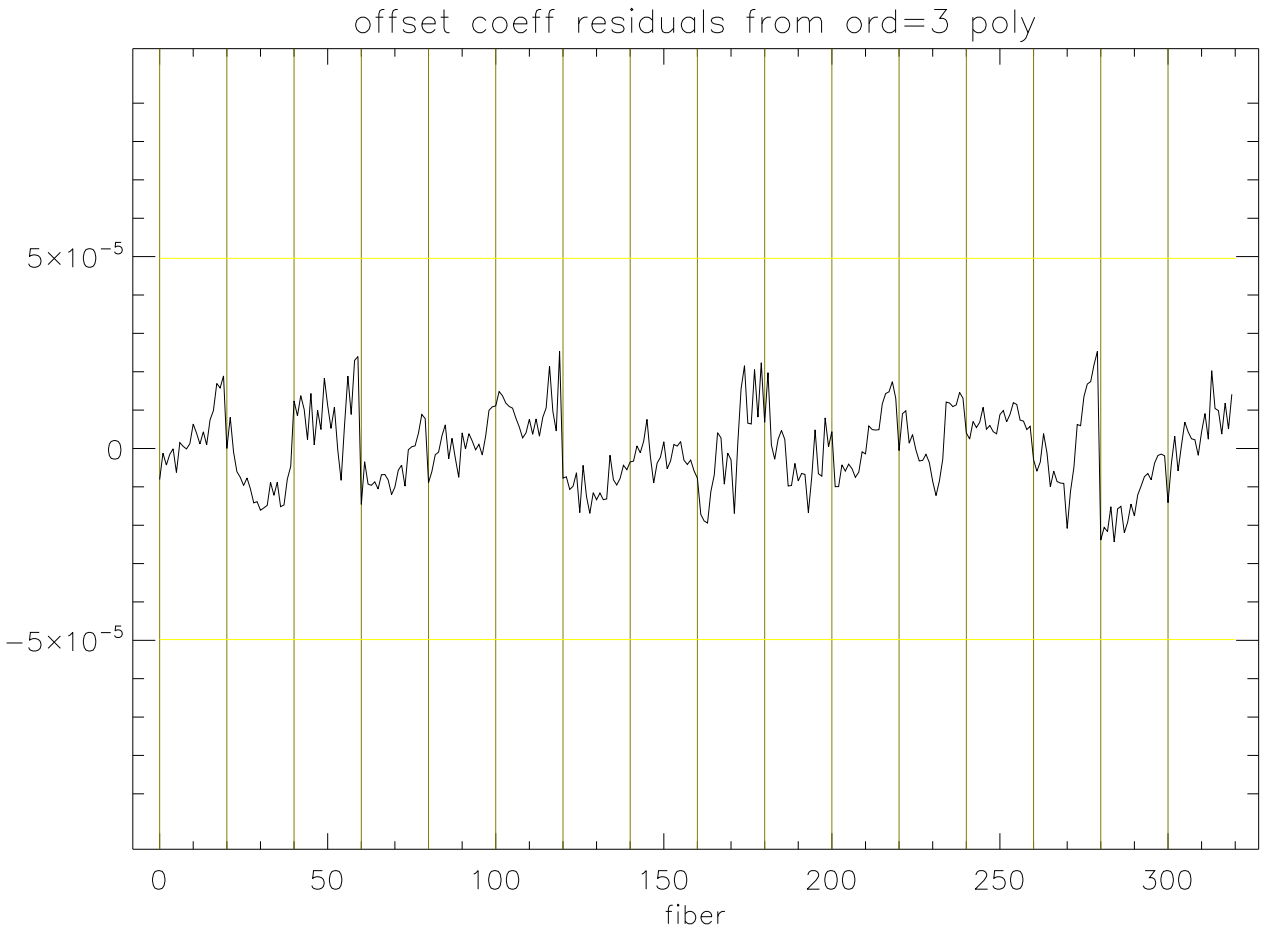

PLATE=0362 MJD=51999 sdR-r1-00009452.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

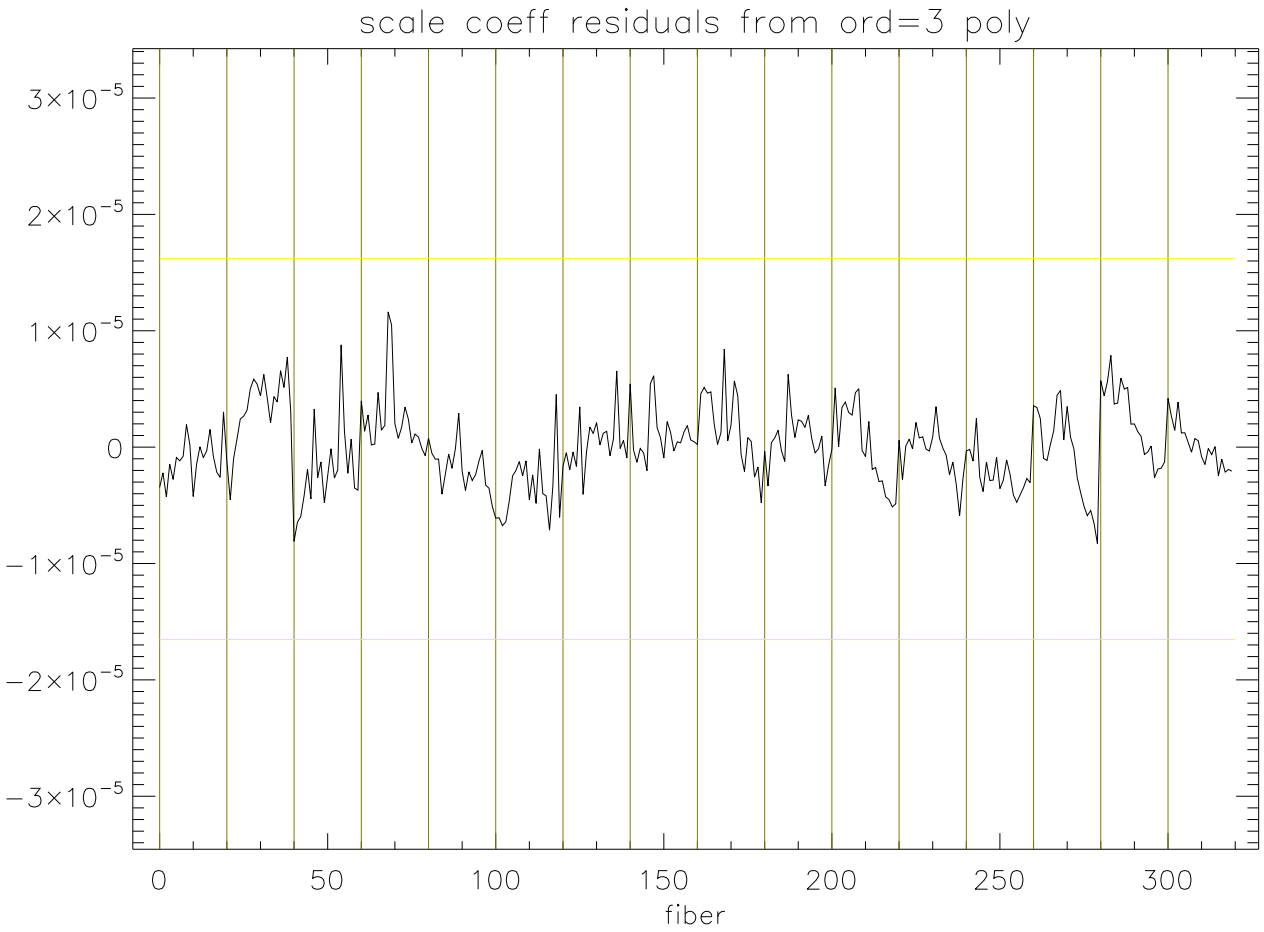

PLATE=0362 MJD=51999 sdR-r1-00009452.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

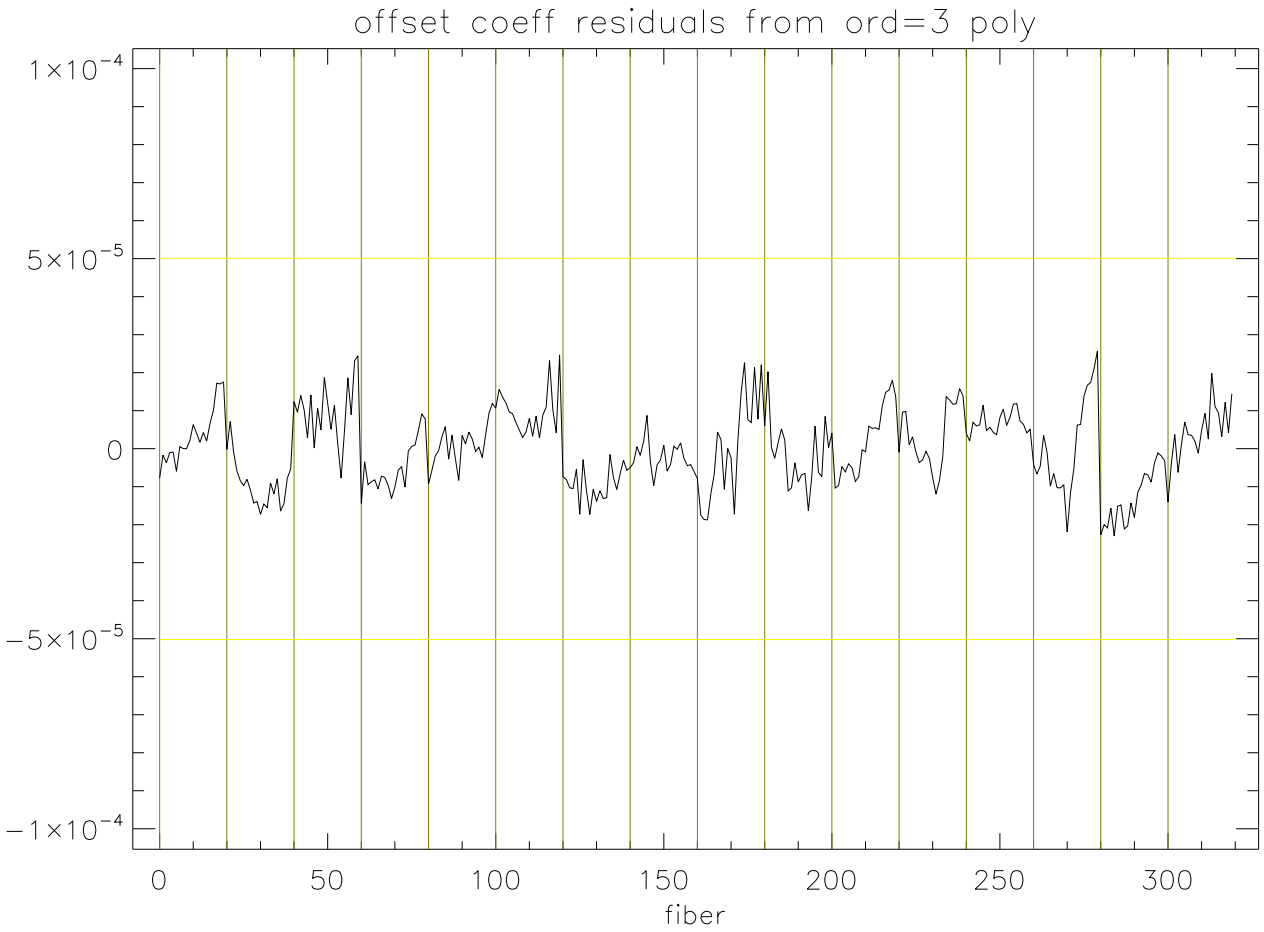

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r1-00009452.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

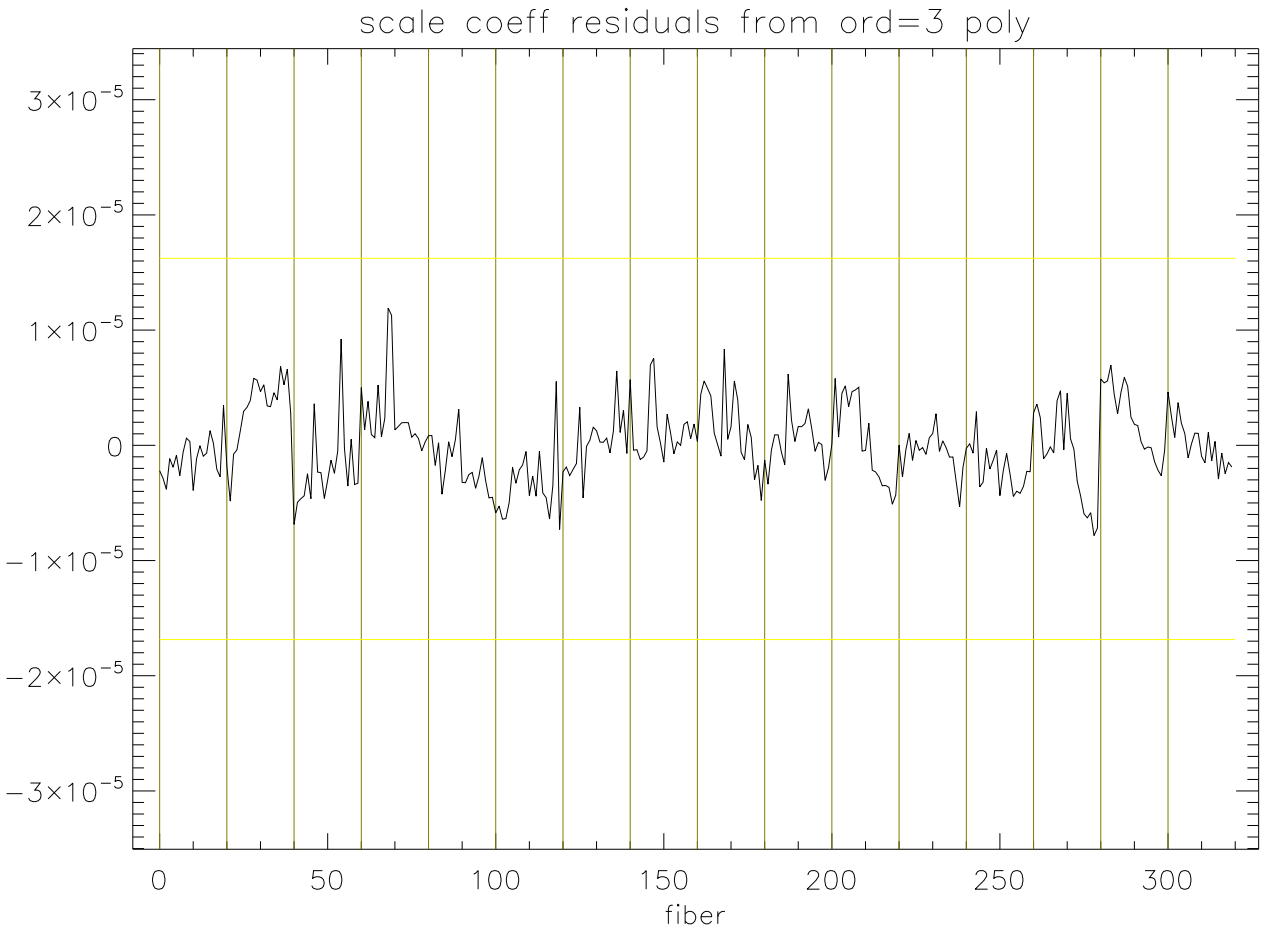

PLATE=0362 MJD=51999 sdR-r1-00009452.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 7.37 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

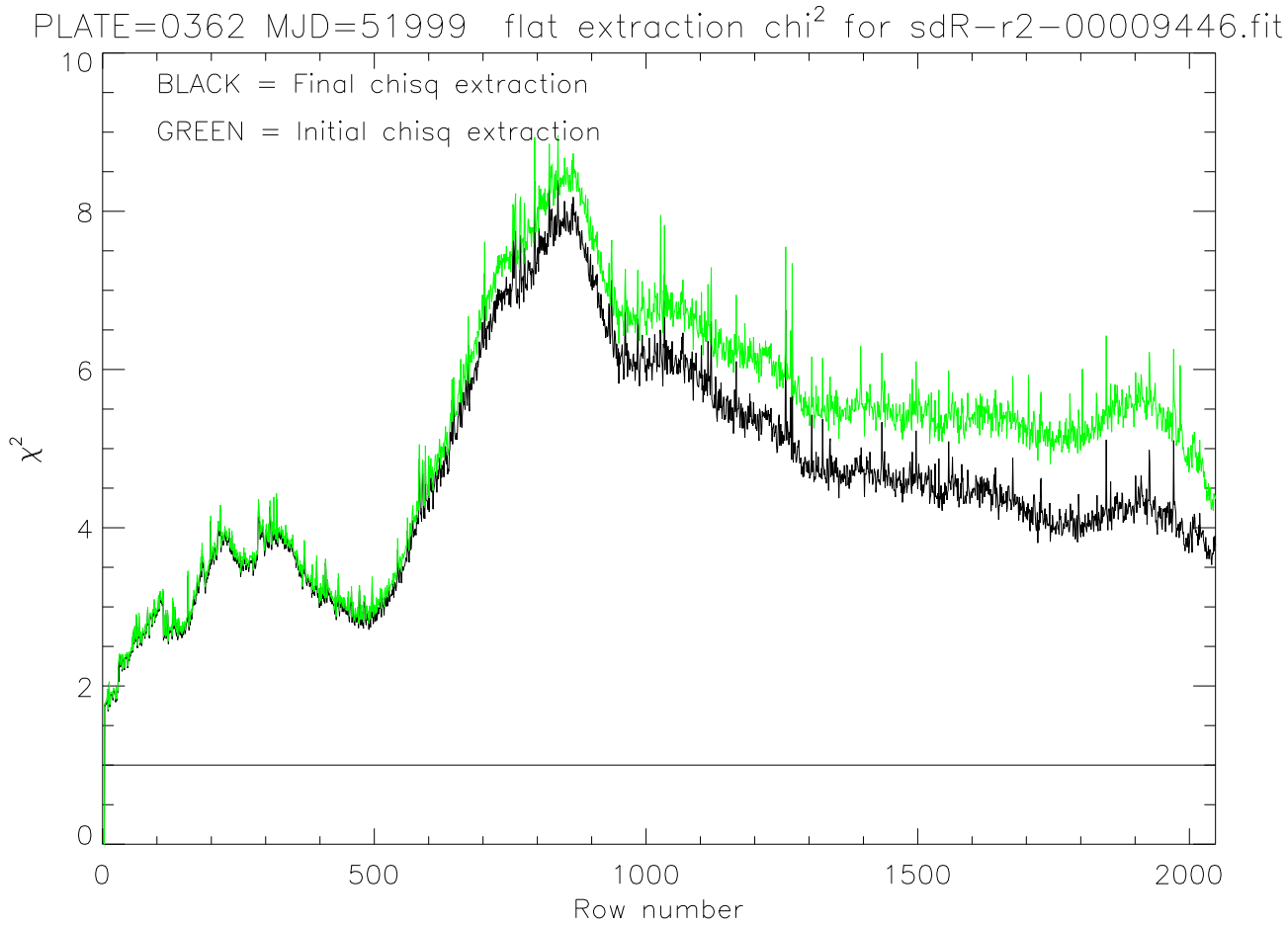

PLATE=0362 MJD=51999 sdR-r1-00009452.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 8.56 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

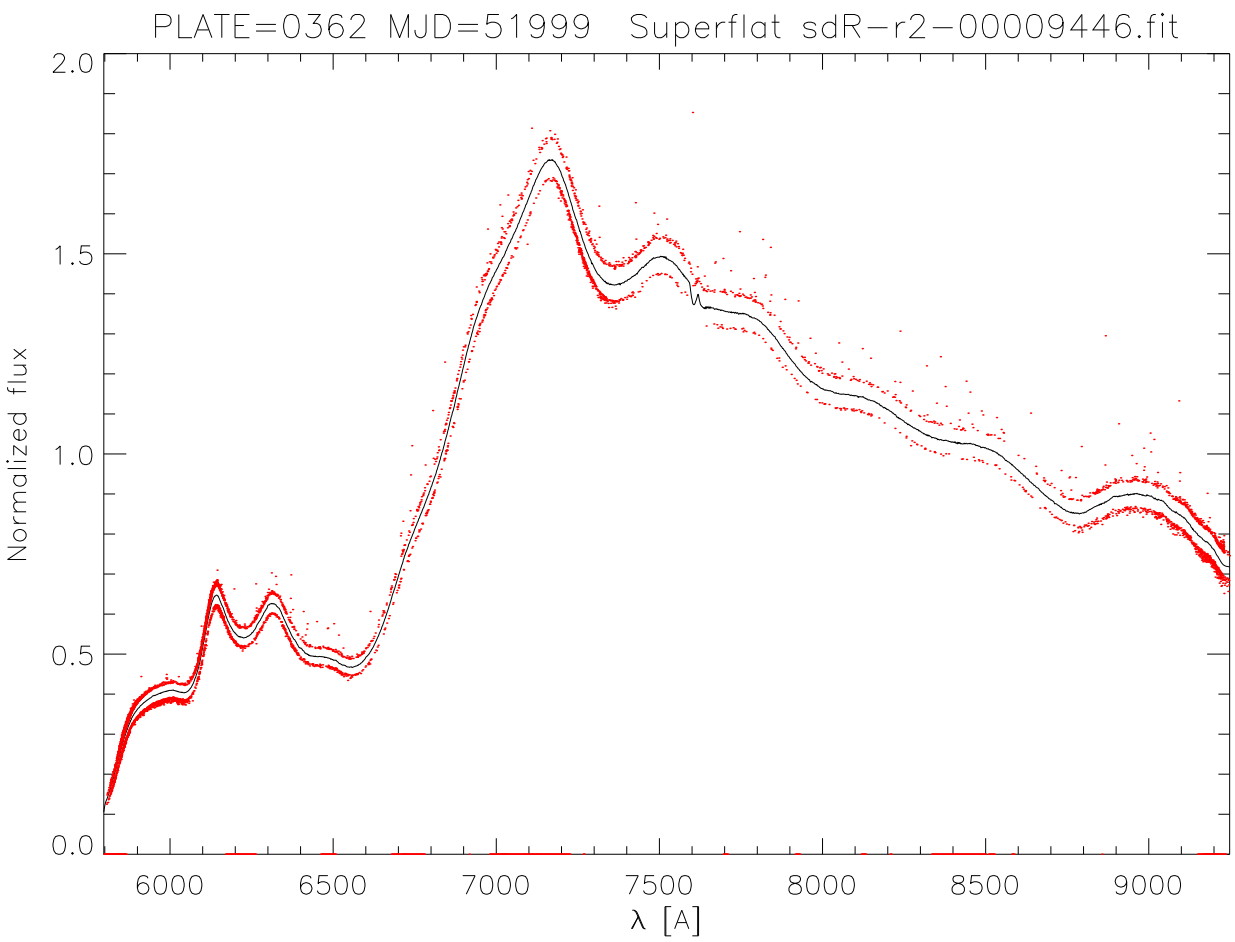

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
0
50
100
150
200
250
300
fiber

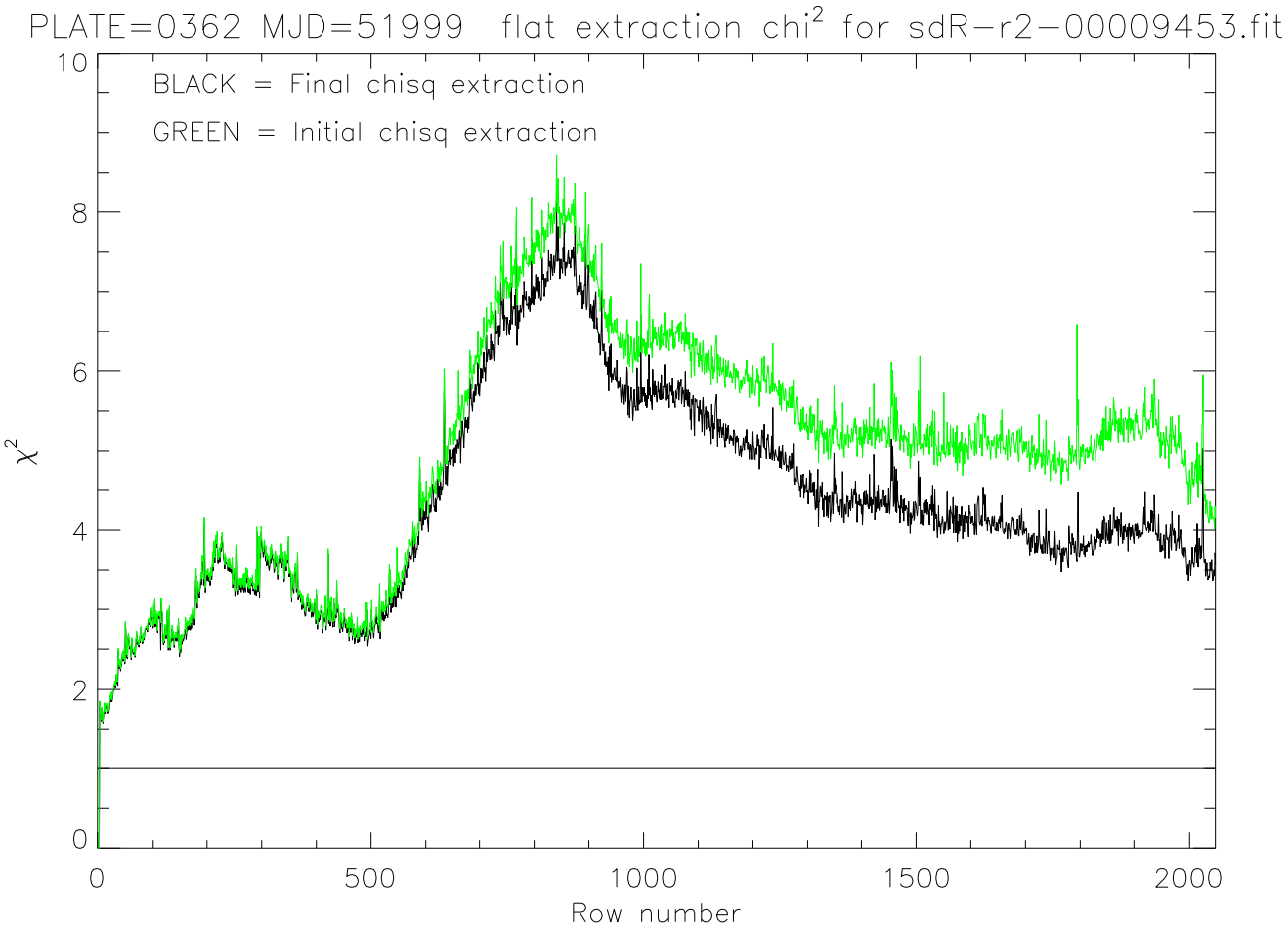

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

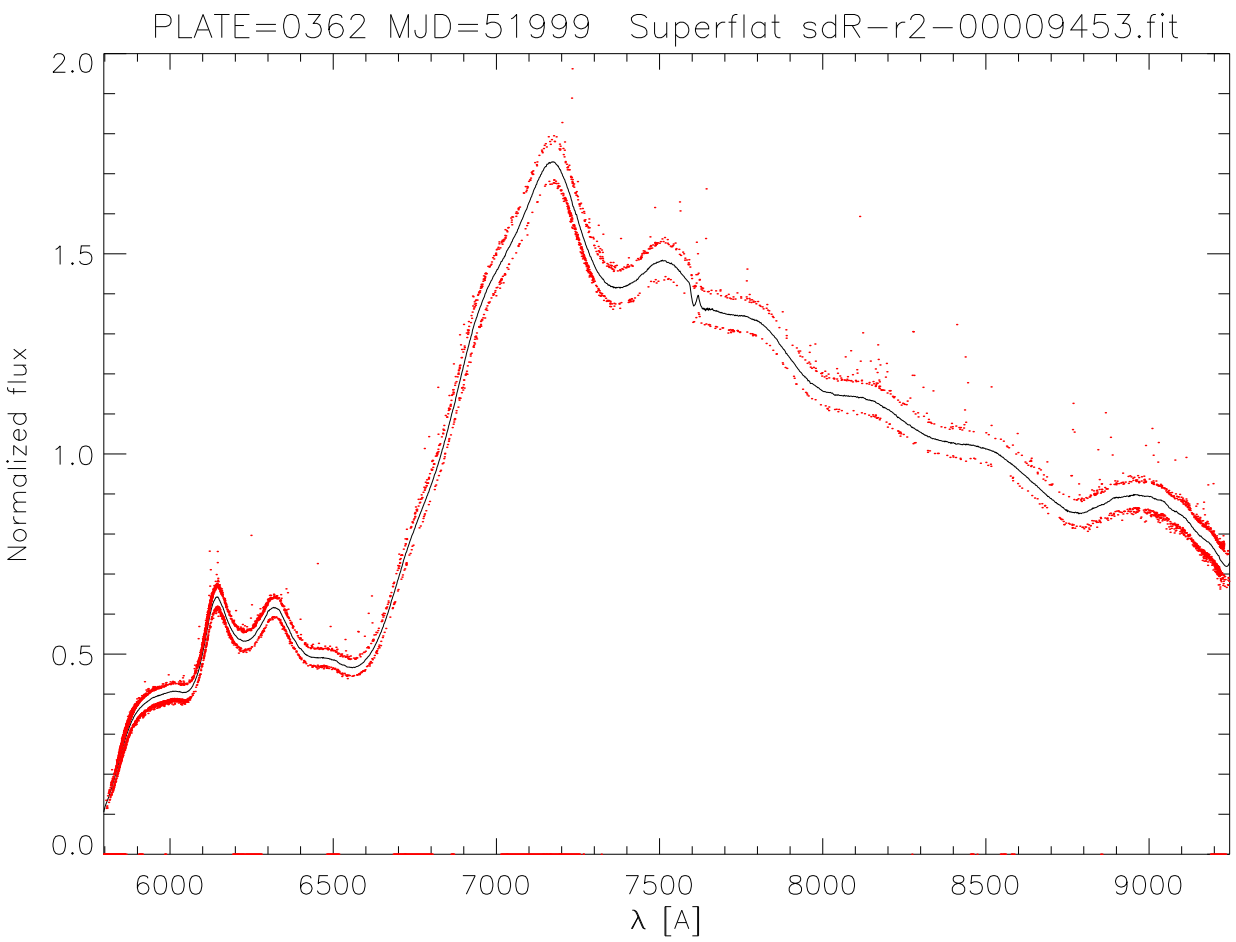

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

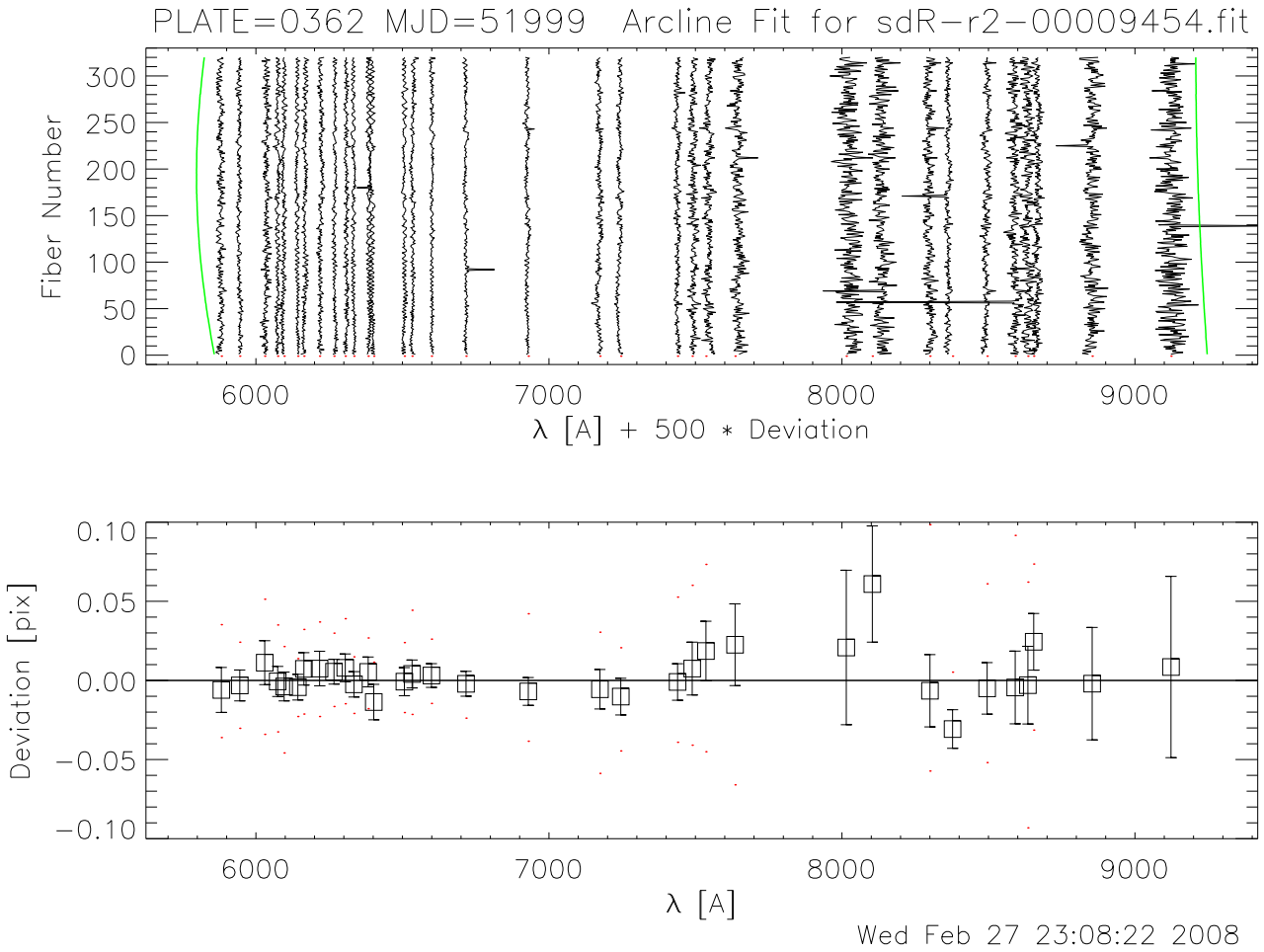

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber


PLATE=0362 MJD=51999 flat extraction chi^2 for sdR-r2-00009446.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

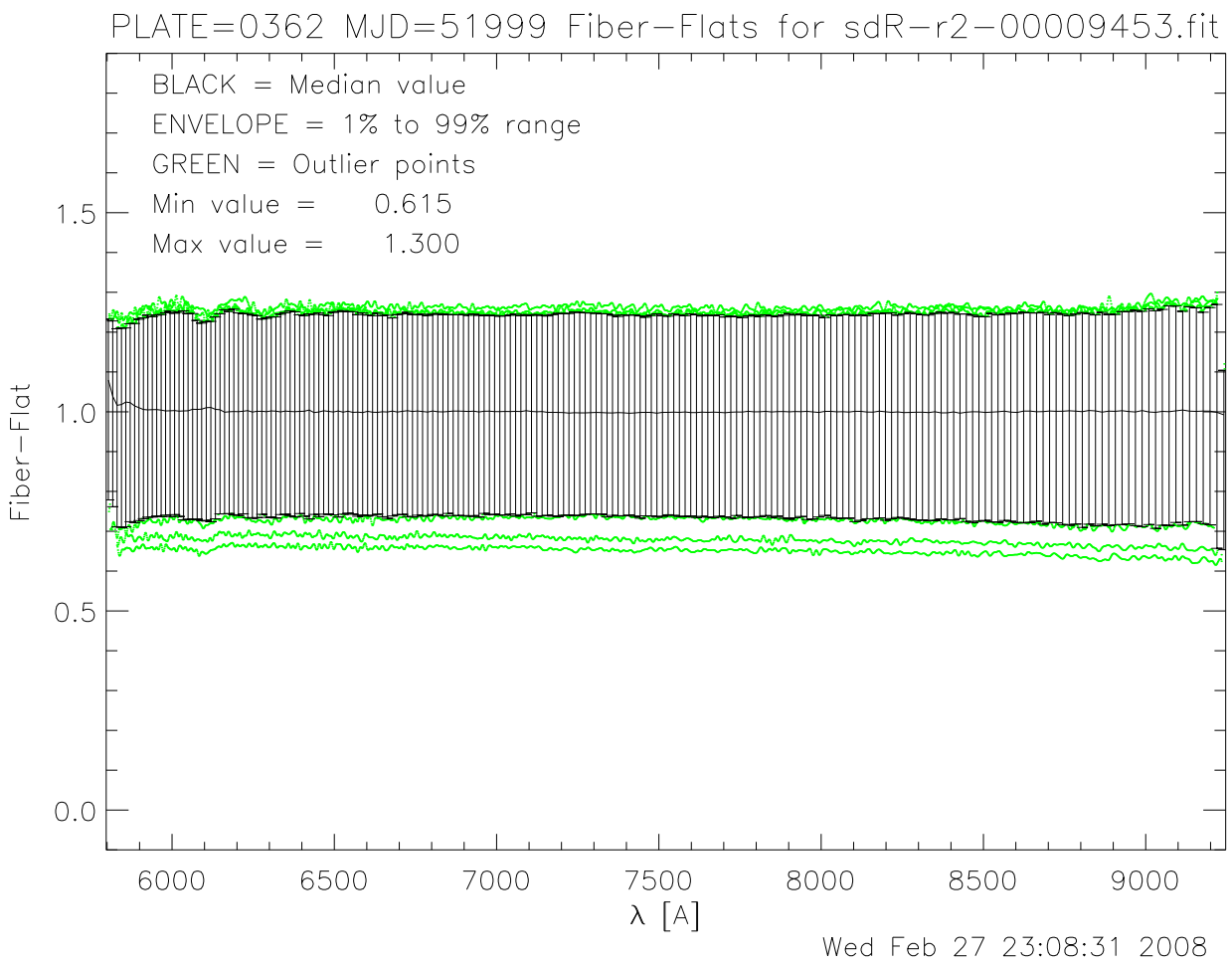

PLATE=0362 MJD=51999 Superflat sdR-r2-00009446.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

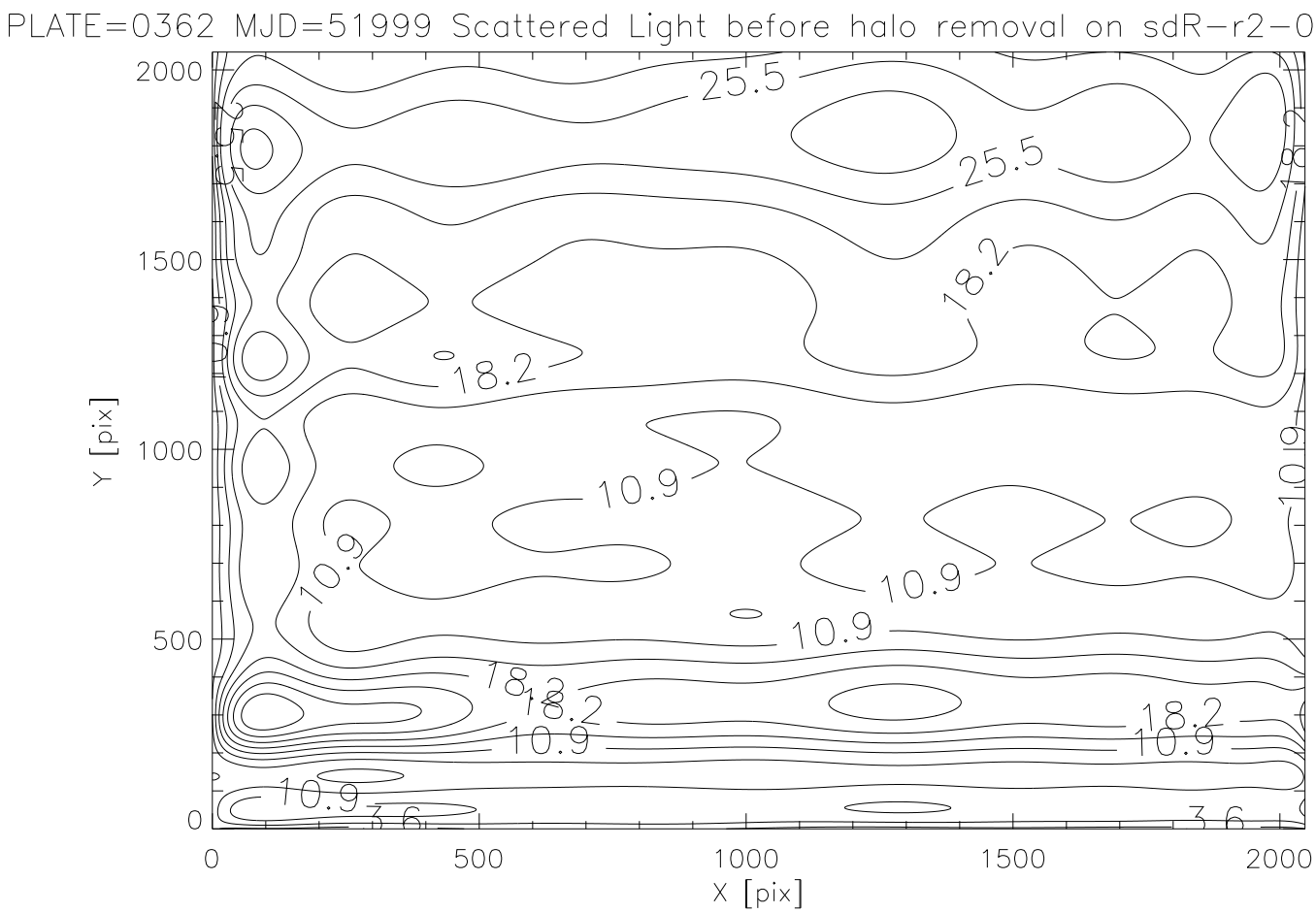

PLATE=0362 MJD=51999 flat extraction chi^2 for sdR−r2−00009453.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

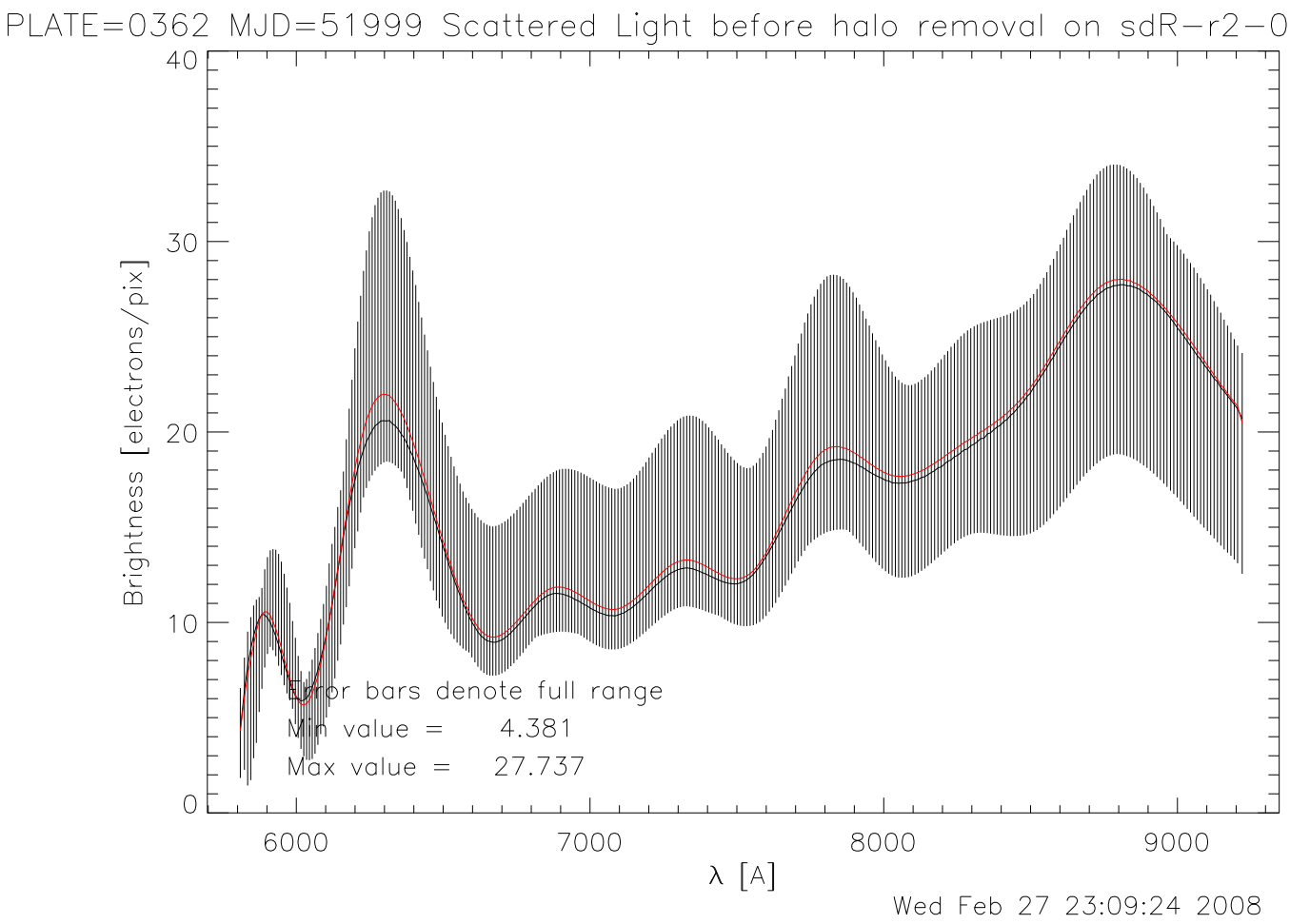

PLATE=0362 MJD=51999 Superflat sdR-r2-00009453.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

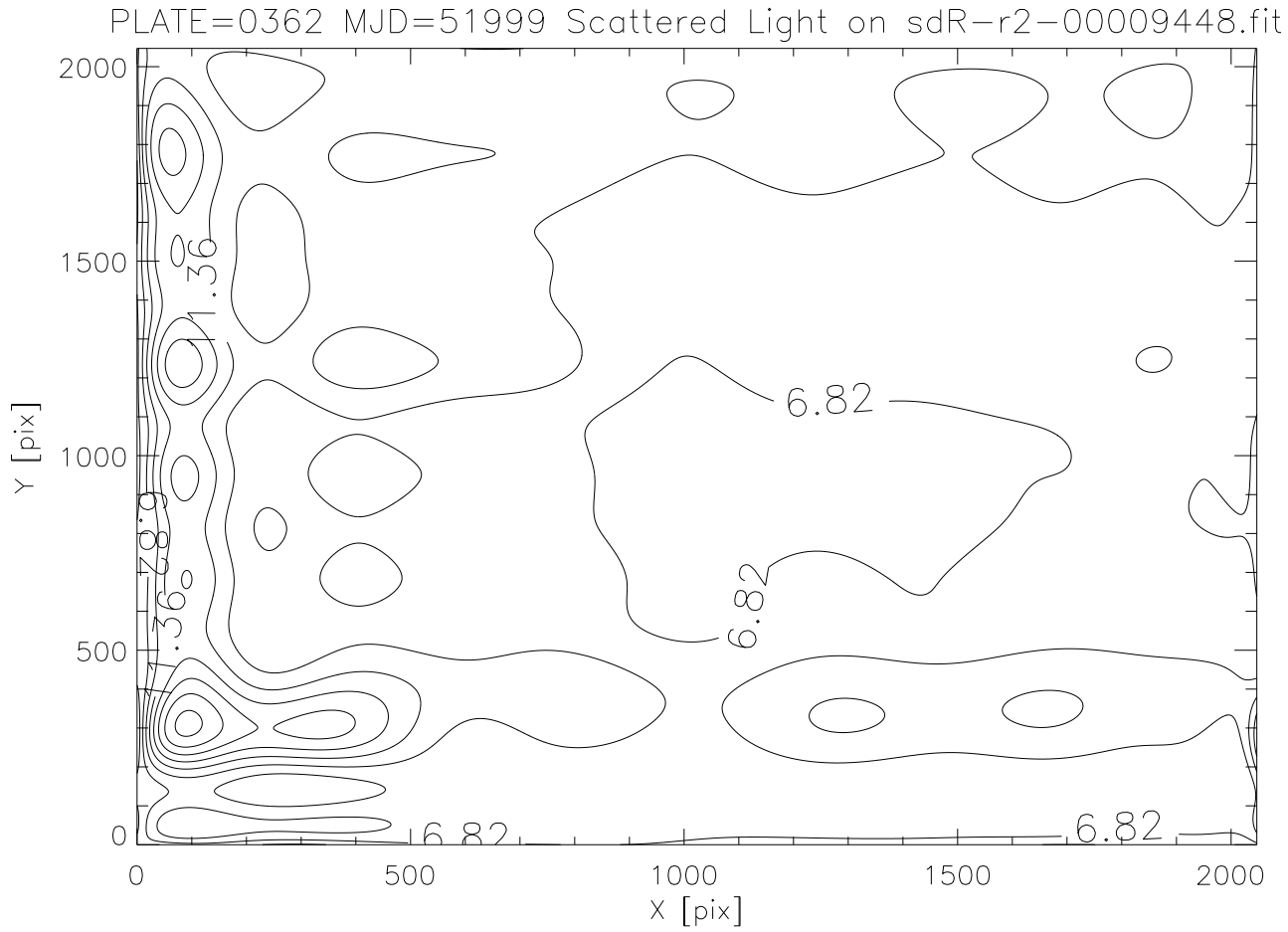

PLATE=0362 MJD=51999 Arcline Fit for sdR-r2-00009454.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation

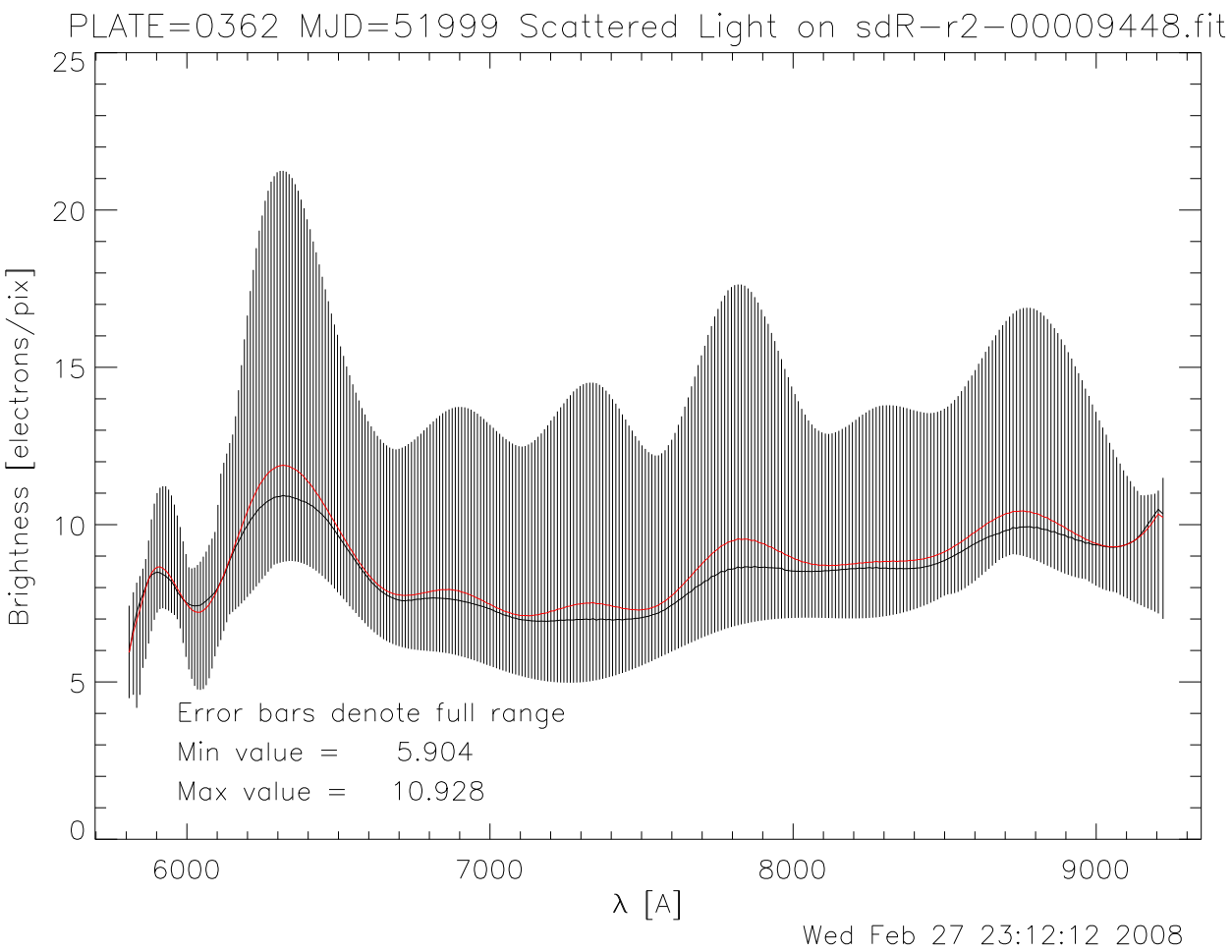
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Wed Feb 27 23:08:22 2008

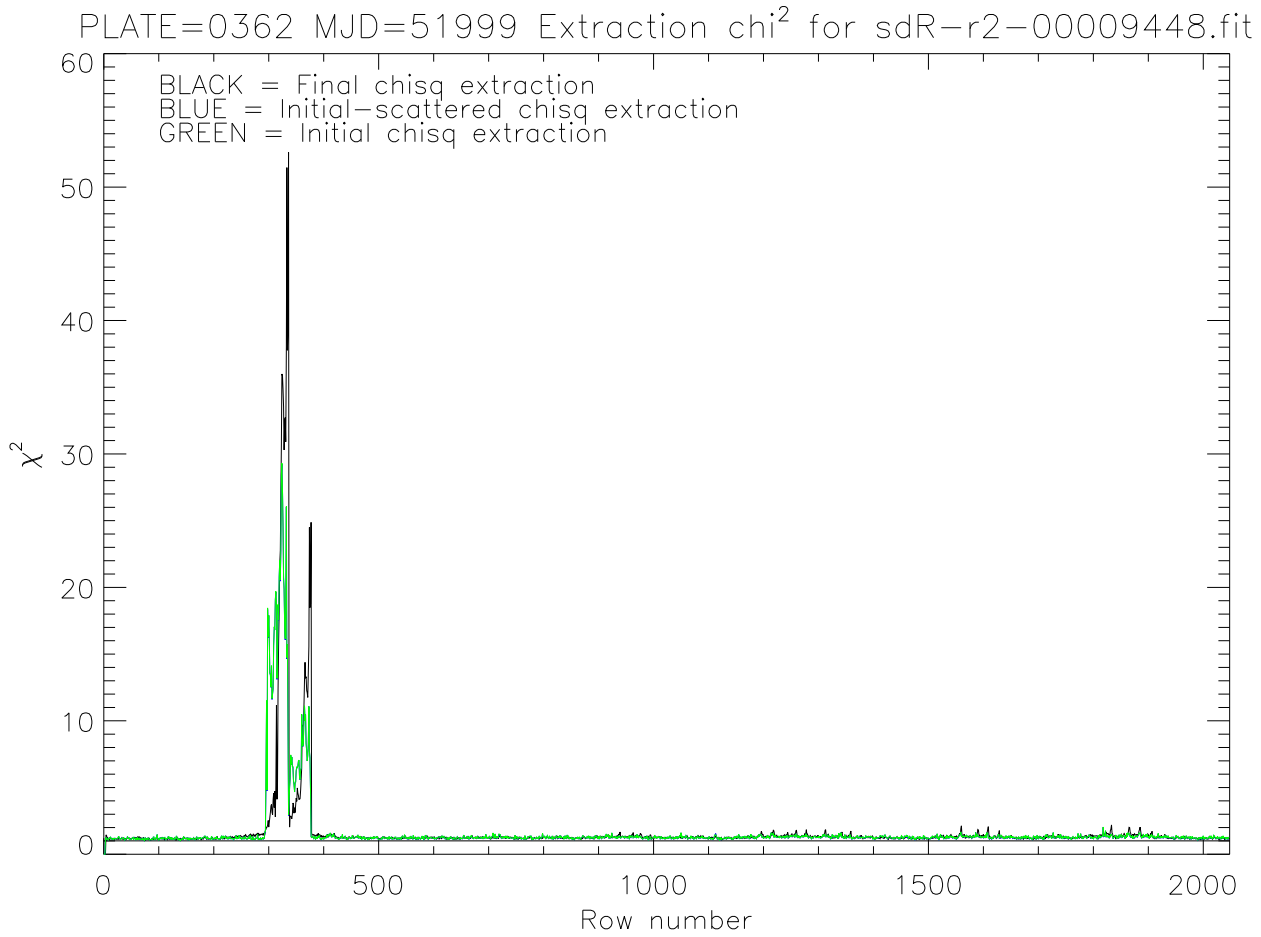

PLATE=0362 MJD=51999 Fiber-Flats for sdR-r2-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.615
Max value = 1.300
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 23:08:31 2008

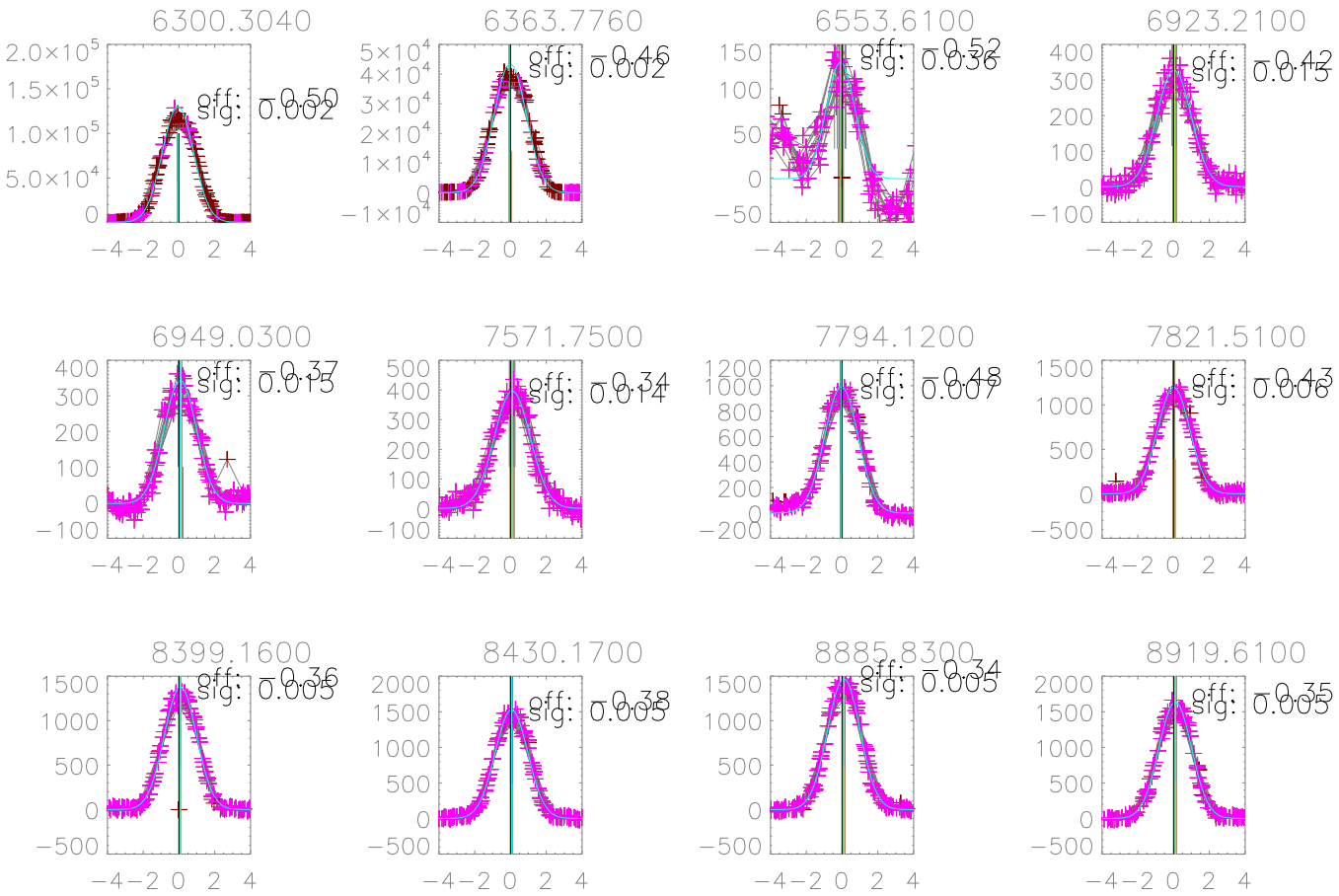

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r2-00009448.fi
25.5
25.5
18.2
18.2
10.9
10.9
10.9
10.9
18.2
18.2
18.2
10.9
10.9
3.6
3.6
Y [pix]
X [pix]
0
500
1000
1500
2000

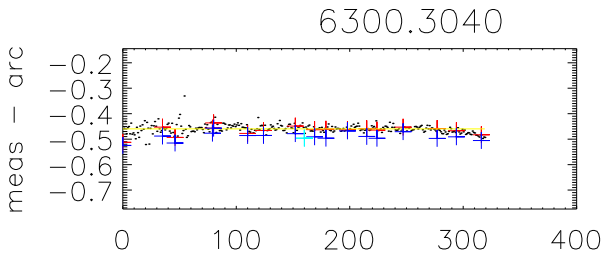

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r2-00009448.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.381
Max value = 27.737
Wed Feb 27 23:09:24 2008

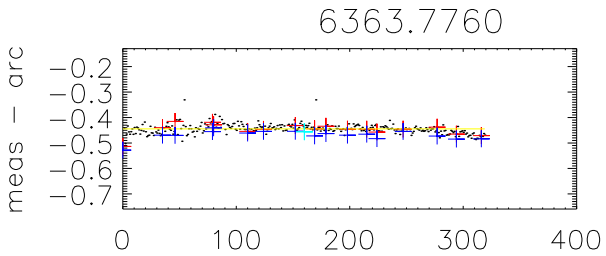

PLATE=0362 MJD=51999 Scattered Light on sdR-r2-00009448.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
11.36
6.82
6.82
6.82
6.82
11.36
28.9

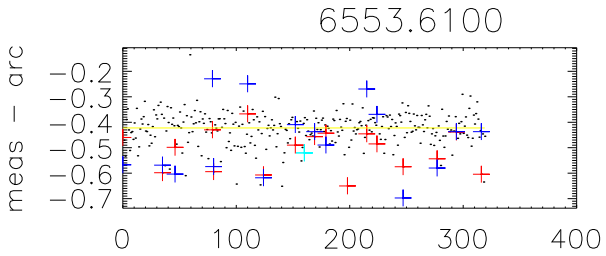

PLATE=0362 MJD=51999 Scattered Light on sdR-r2-00009448.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.904
Max value = 10.928
Wed Feb 27 23:12:12 2008

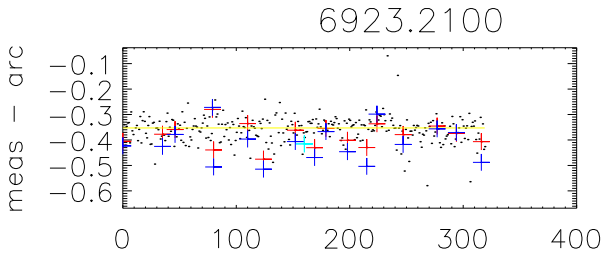

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-r2-00009448.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
10
20
30
40
50
60
0
500
1000
1500
2000

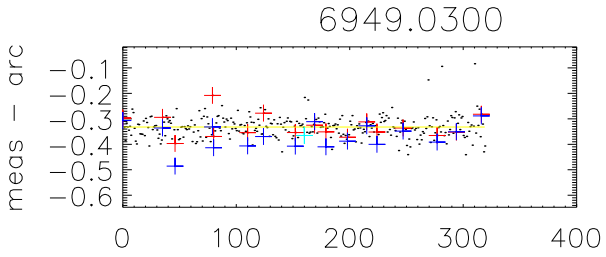

6300.3040
off: −0.50
sig: 0.002
6363.7760
off: −0.46
sig: 0.002
6553.6100
off: −0.52
sig: 0.036
6923.2100
off: −0.42
sig: 0.015
6949.0300
off: −0.37
sig: 0.015
7571.7500
off: −0.34
sig: 0.014
7794.1200
off: −0.48
sig: 0.007
7821.5100
off: −0.43
sig: 0.006
8399.1600
off: −0.36
sig: 0.005
8430.1700
off: −0.38
sig: 0.005
8885.8300
off: −0.34
sig: 0.005
8919.6100
off: −0.35
sig: 0.005

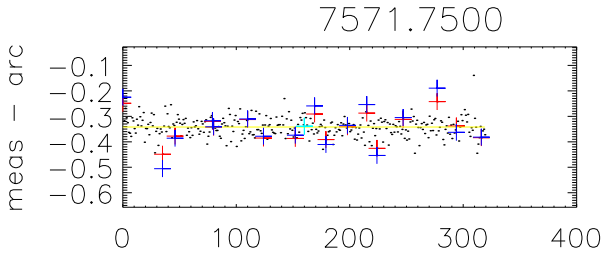

6300.3040
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

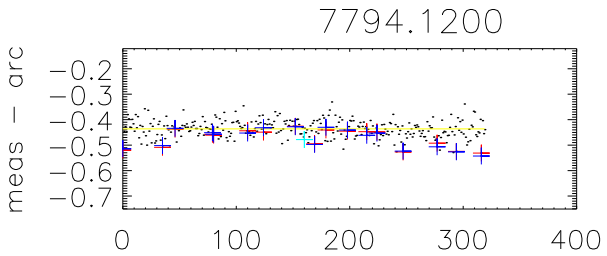

6363.7760
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

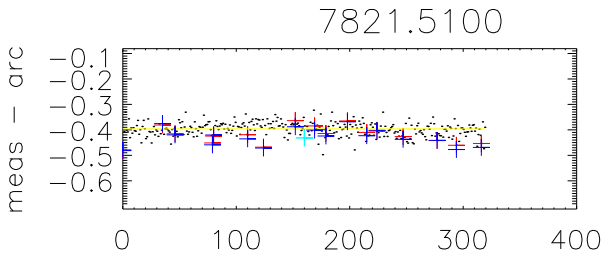

6553.6100
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

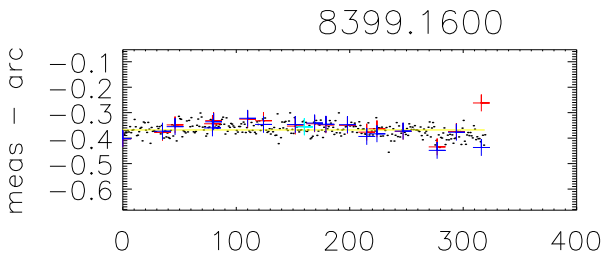

6923.2100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

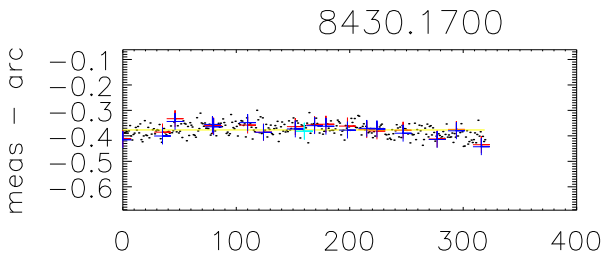

6949.0300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

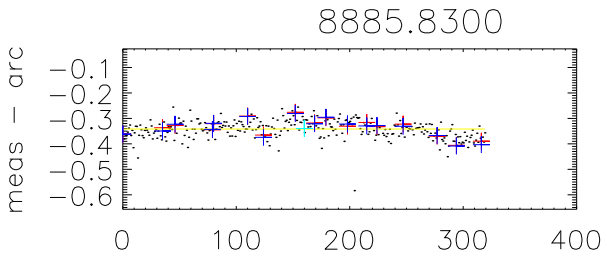

7571.7500
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

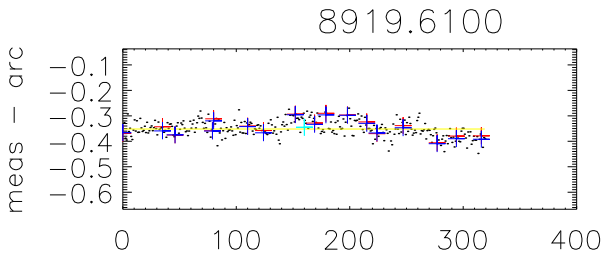

7794.1200
meas − arc
−0.2
−0.3
−0.4
−0.5
−0.6
−0.7
0
100
200
300
400

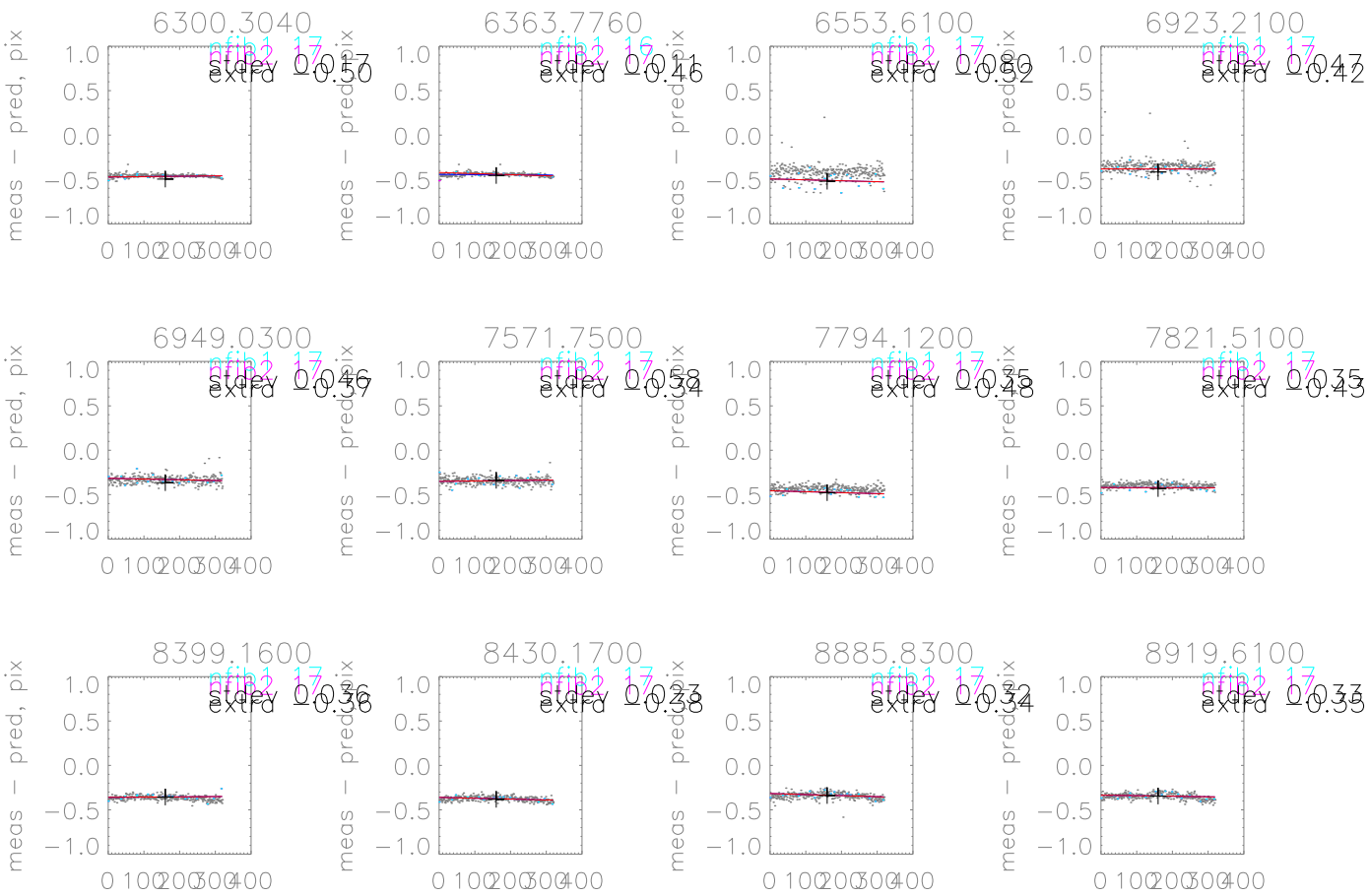

7821.5100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

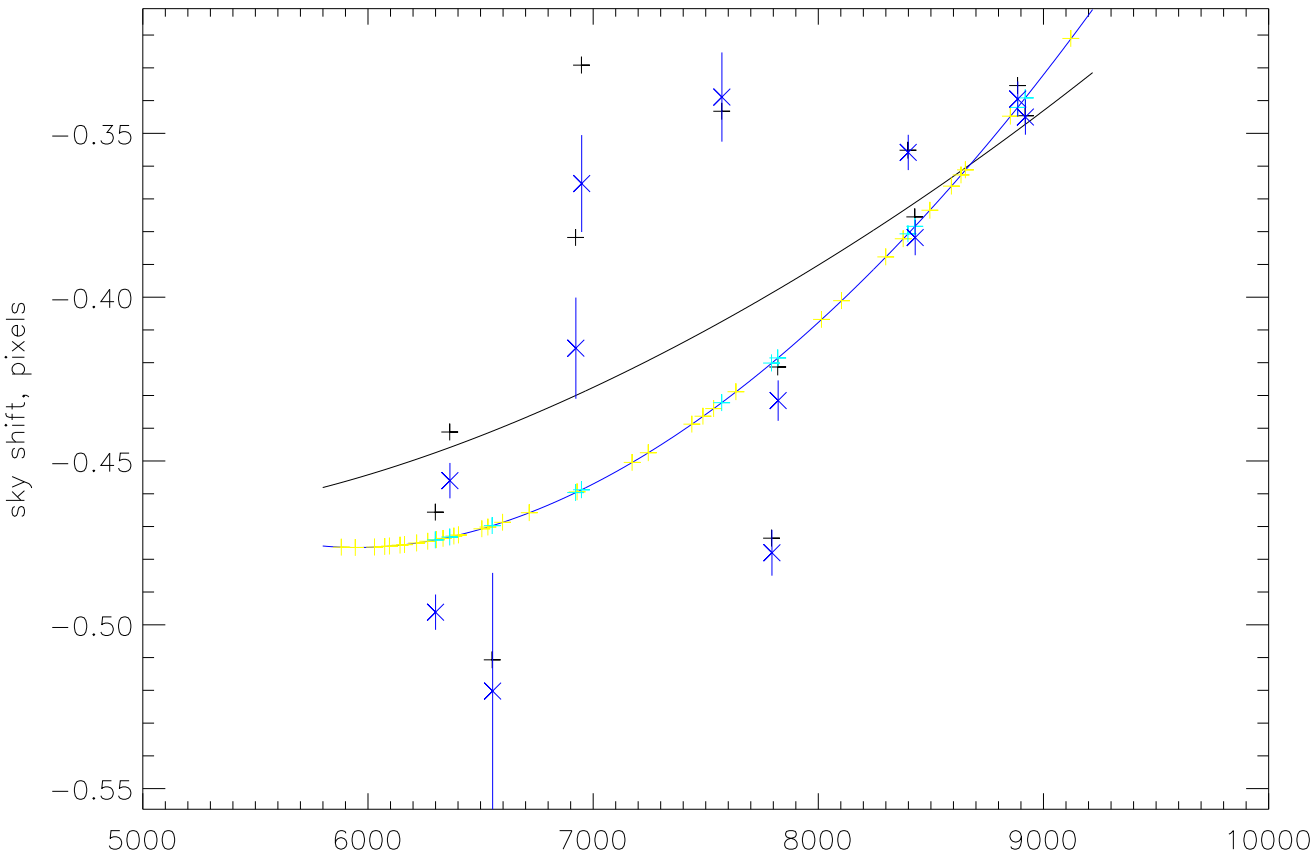

8399.1600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

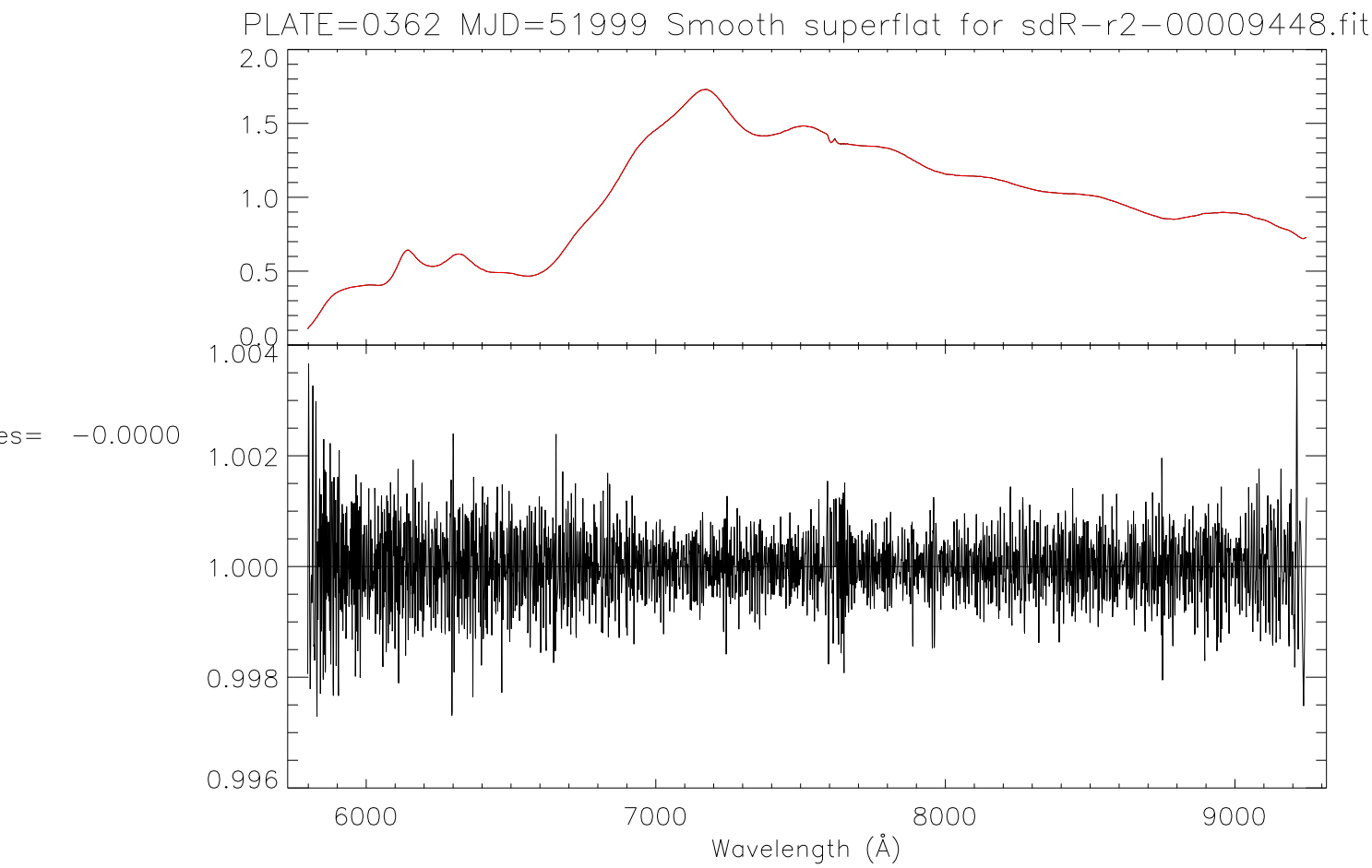

8430.1700
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400


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

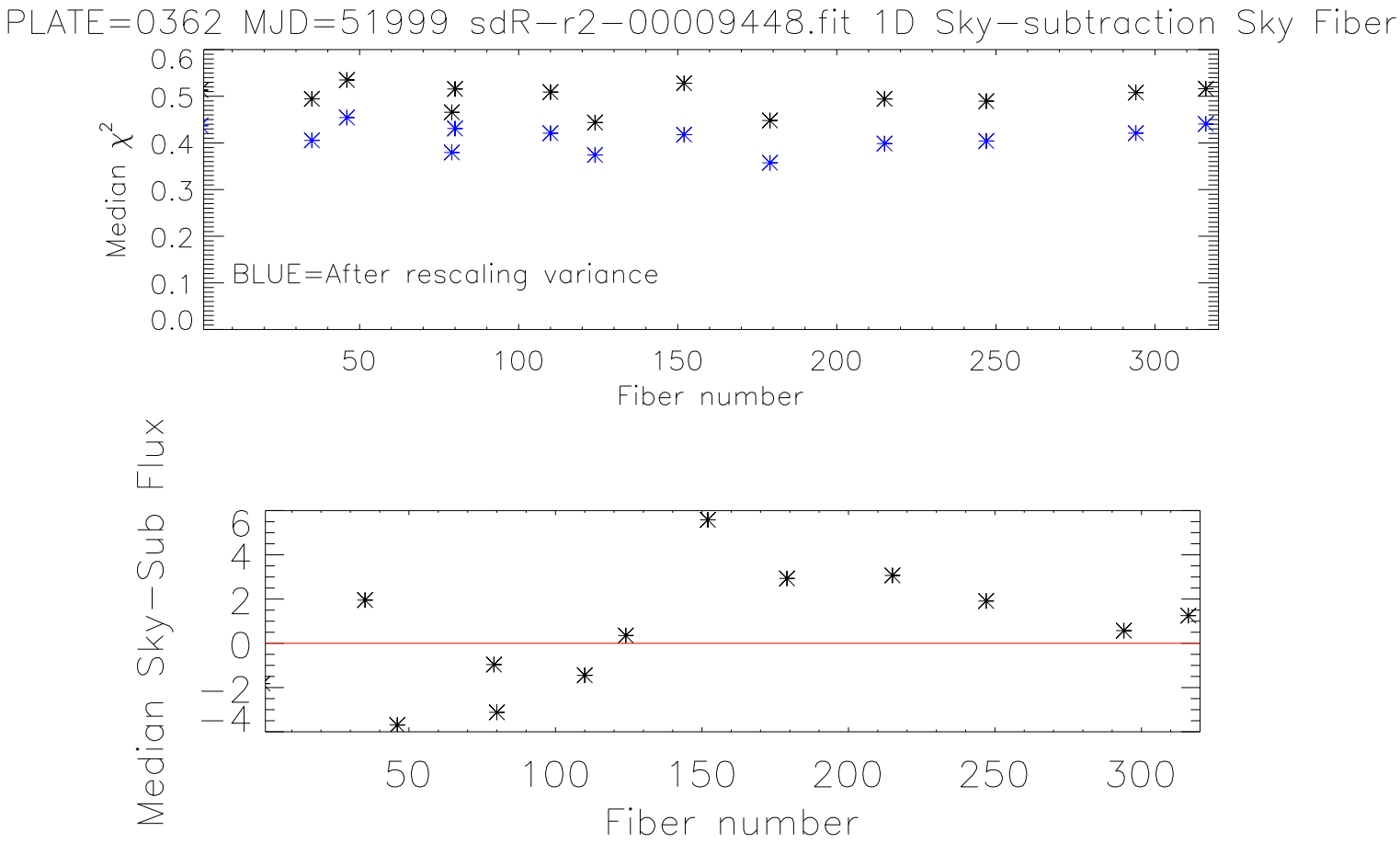

8919.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

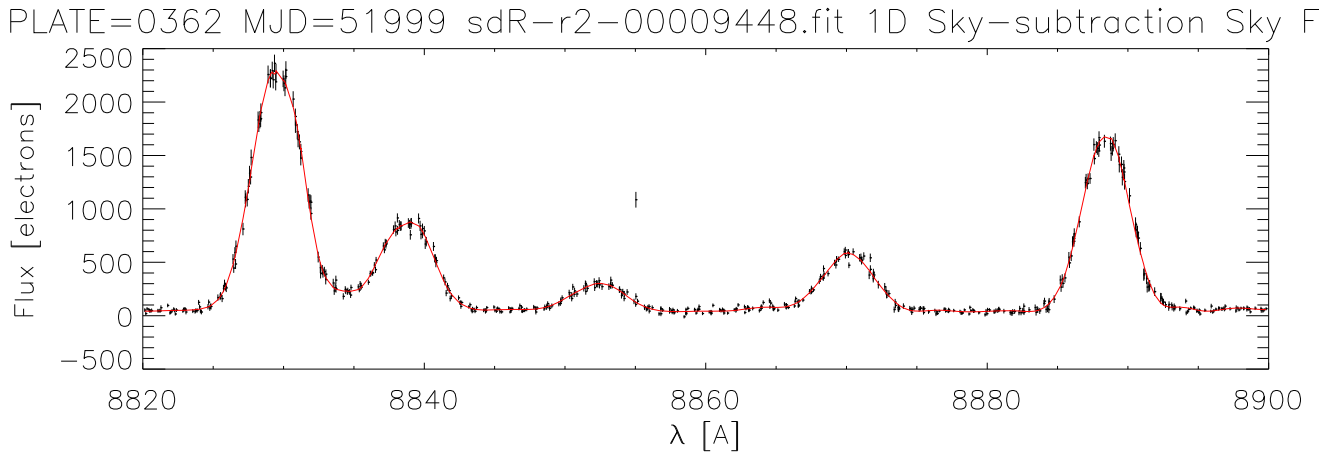

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas − pred, pix
mfb1 17
mfb2 17
stdev 0.047
extra −0.42
stdev 0.046
extra −0.37
stdev 0.058
extra −0.34
stdev 0.035
extra −0.48
stdev 0.035
extra −0.43
stdev 0.036
extra −0.36
stdev 0.033
extra −0.38
stdev 0.032
extra −0.34
stdev 0.033
extra −0.35

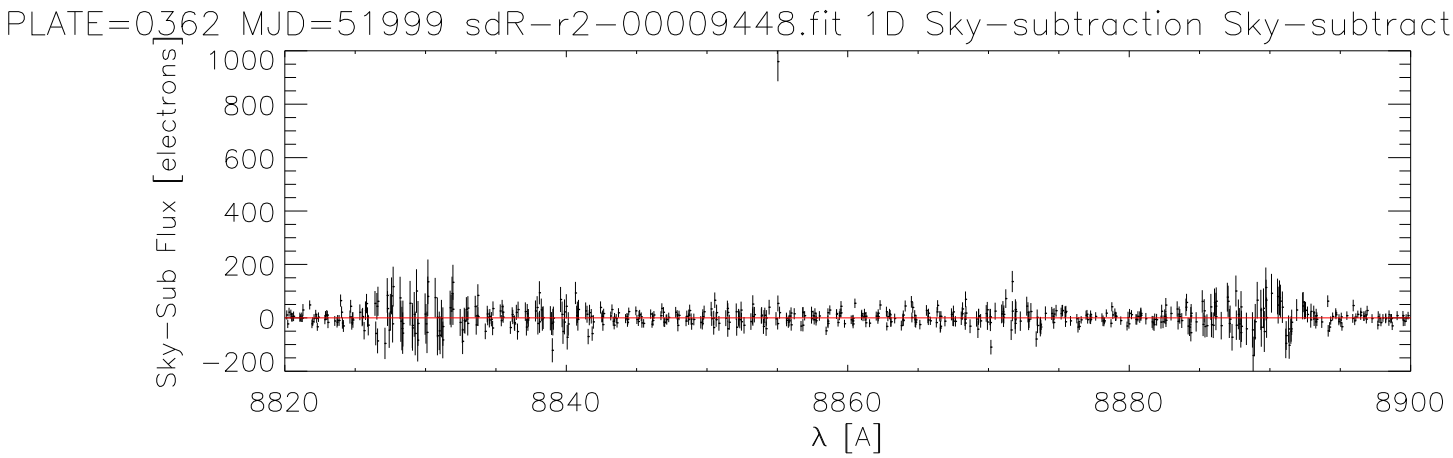

sky shift, pixels
−0.35
−0.40
−0.45
−0.50
−0.55
5000
6000
7000
8000
9000
10000

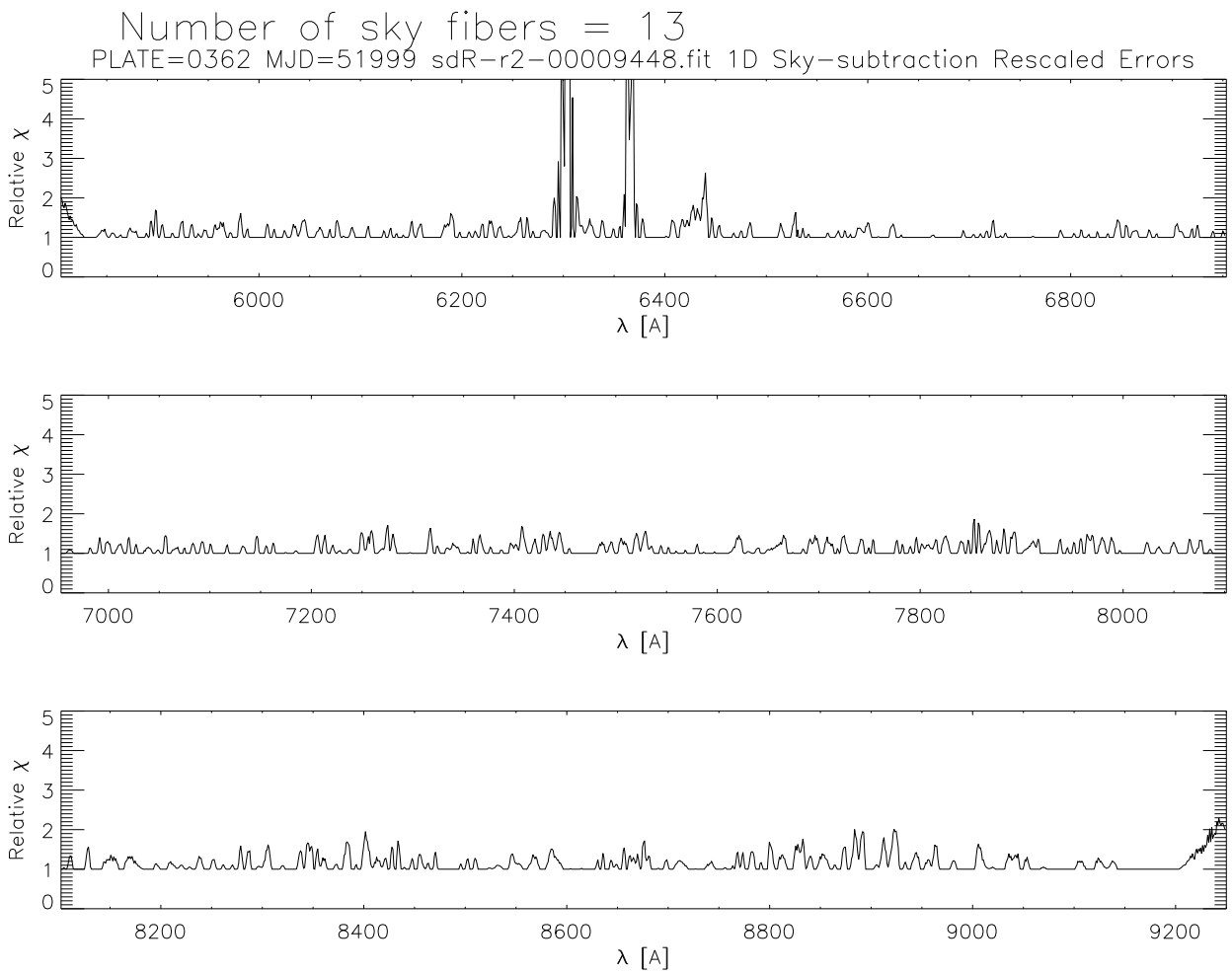

PLATE=0362 MJD=51999 Smooth superflat for sdR-r2-00009448.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

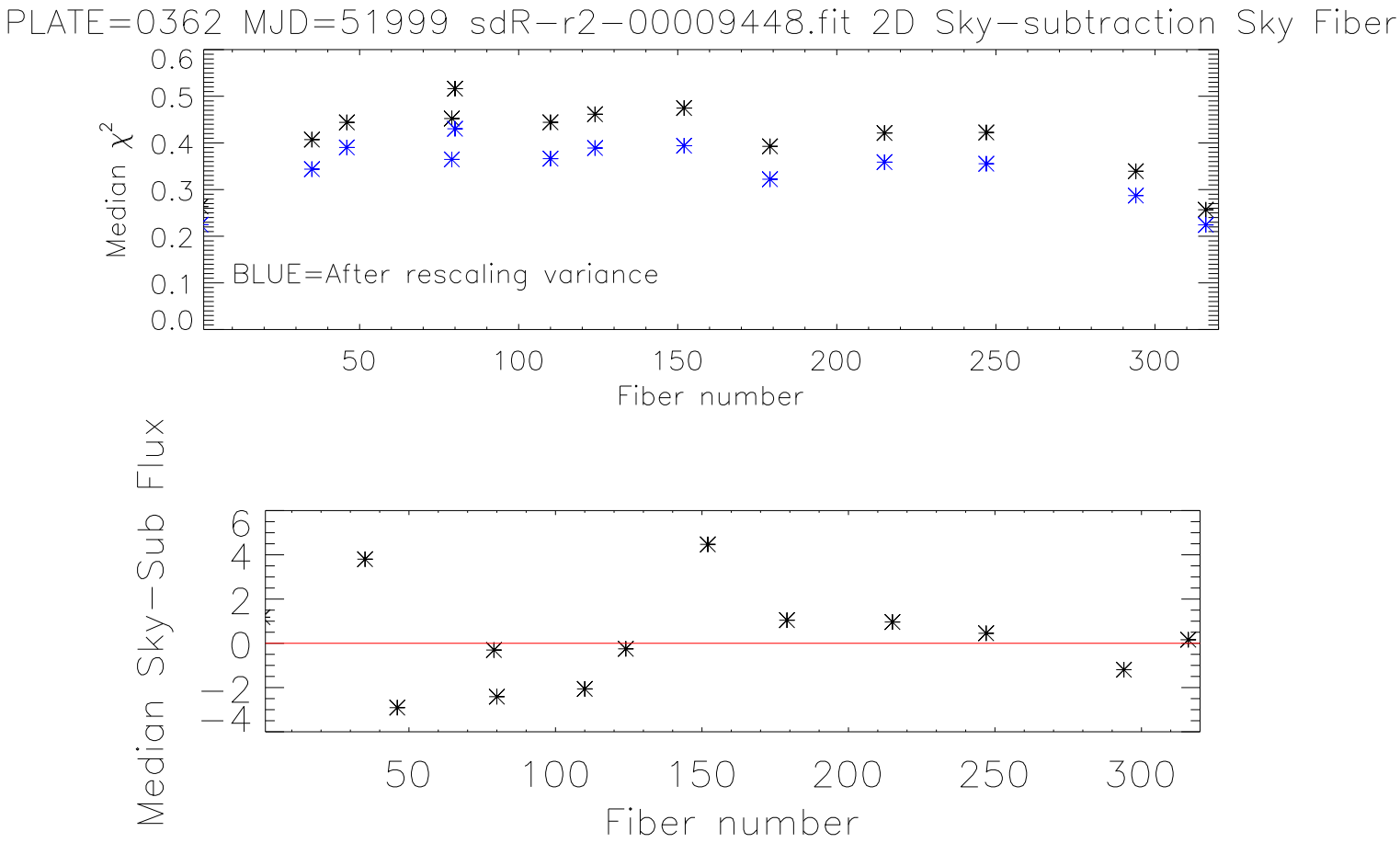
es= −0.0000

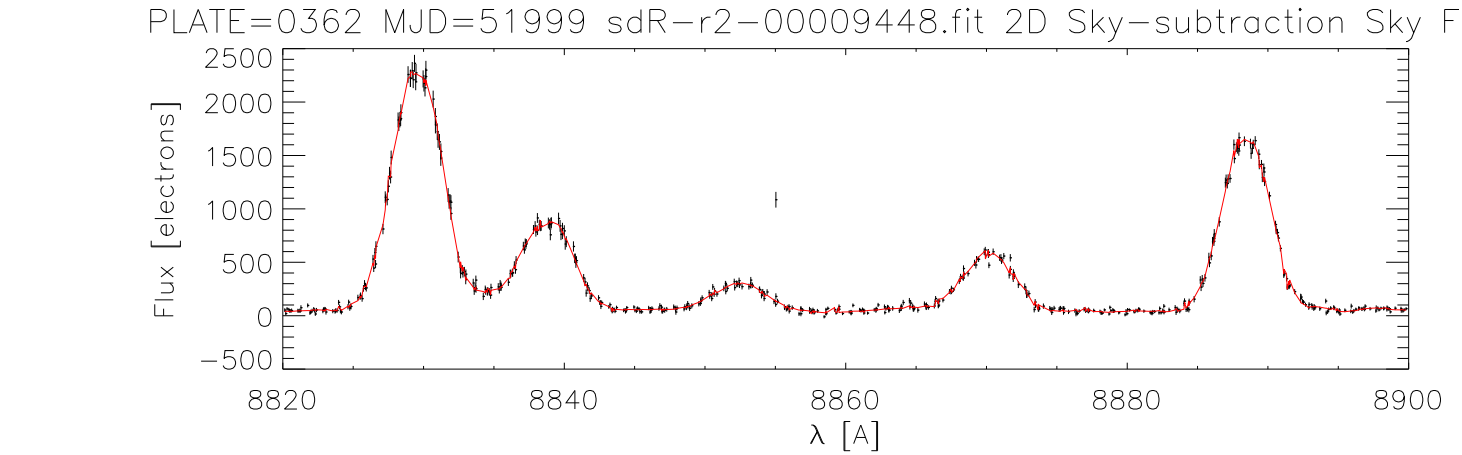

PLATE=0362 MJD=51999 sdR-r2-00009448.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

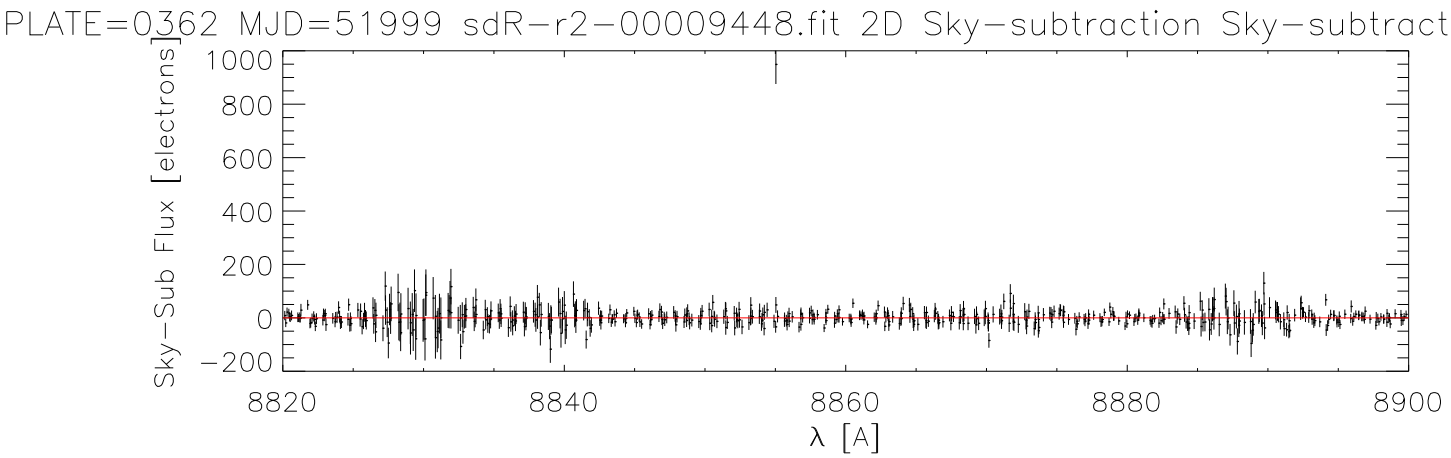

PLATE=0362 MJD=51999 sdR-r2-00009448.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

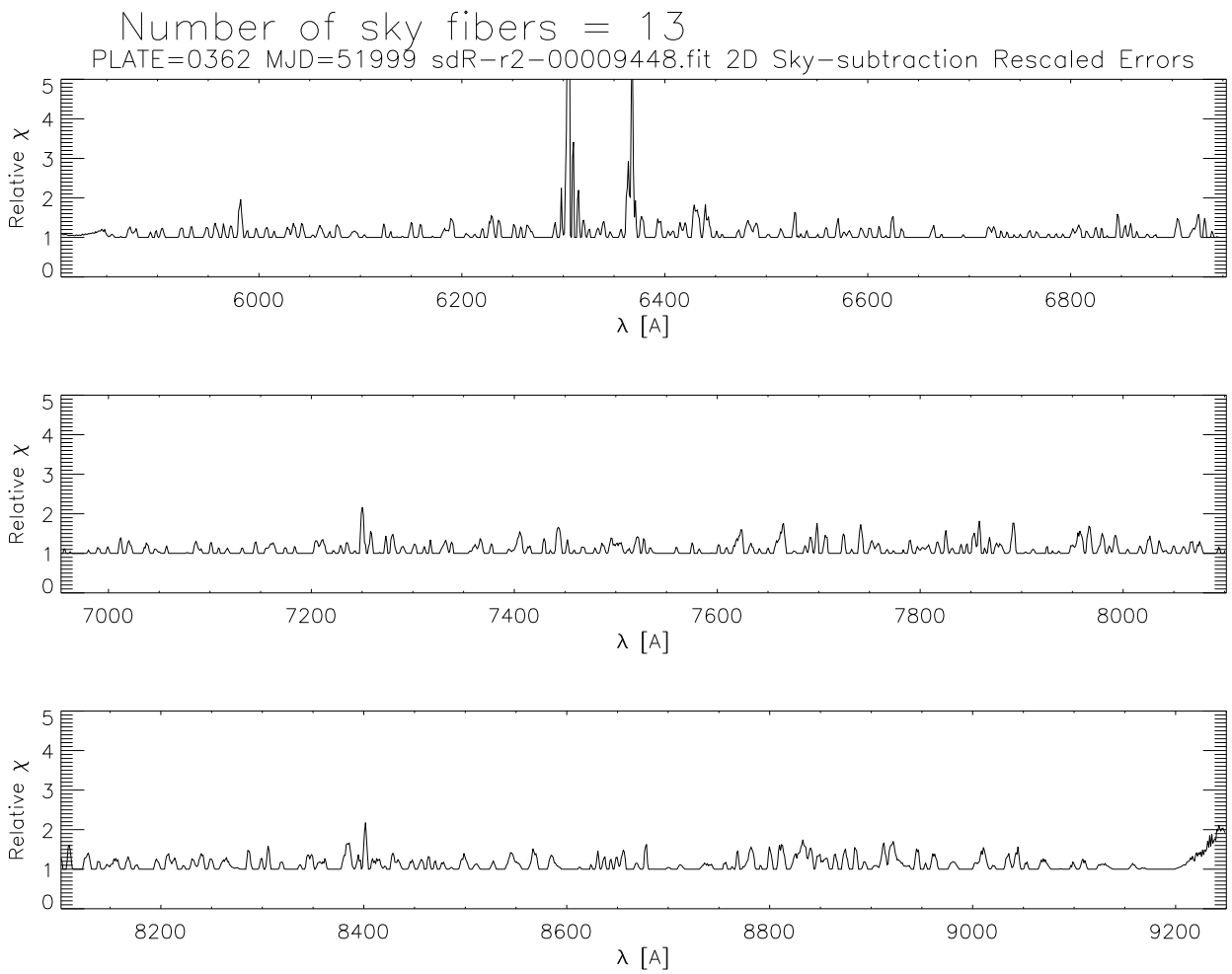

PLATE=0362 MJD=51999 sdR-r2-00009448.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
−200
8820
8840
8860
8880
8900
λ [A]

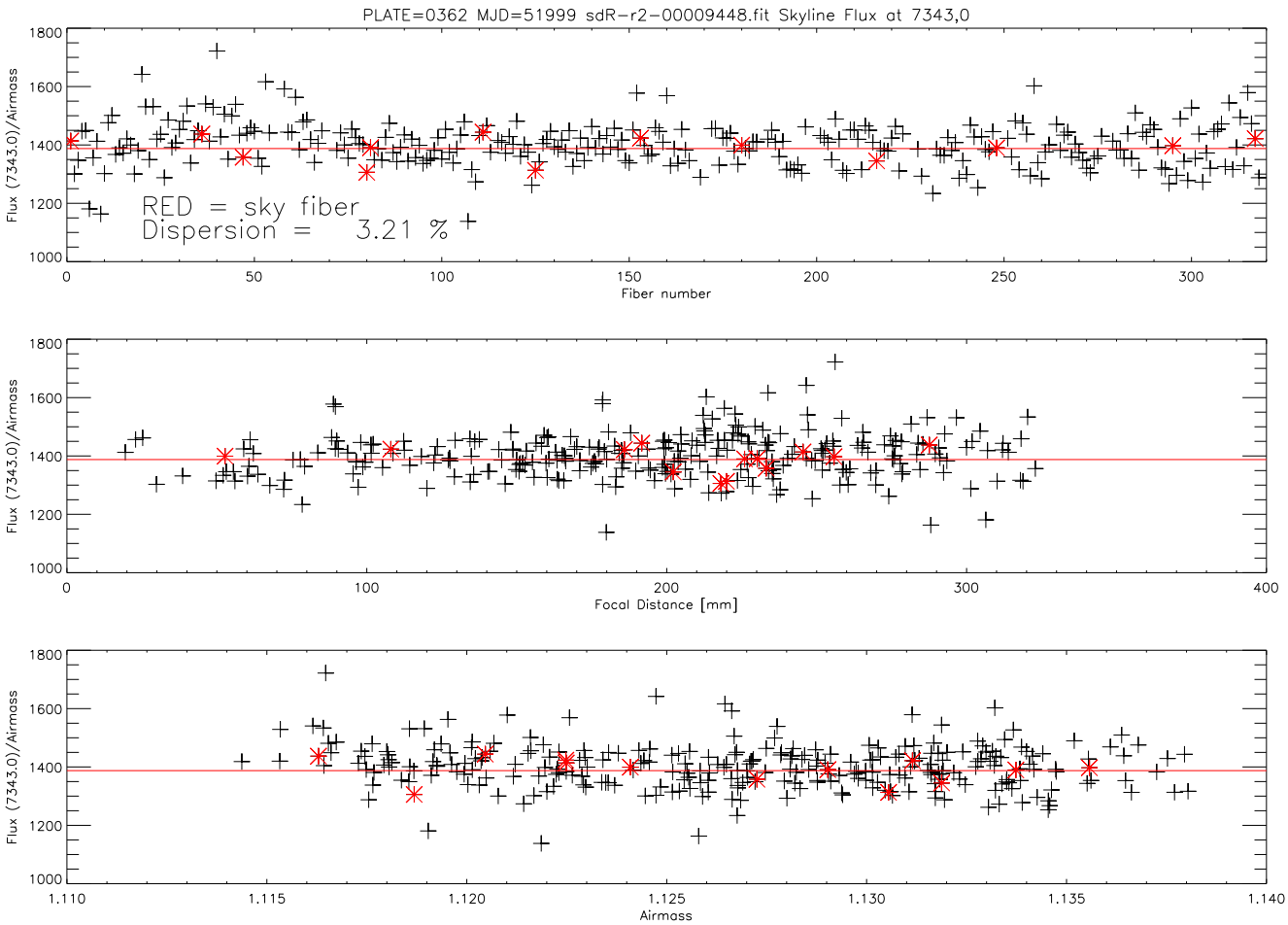

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r2-00009448.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

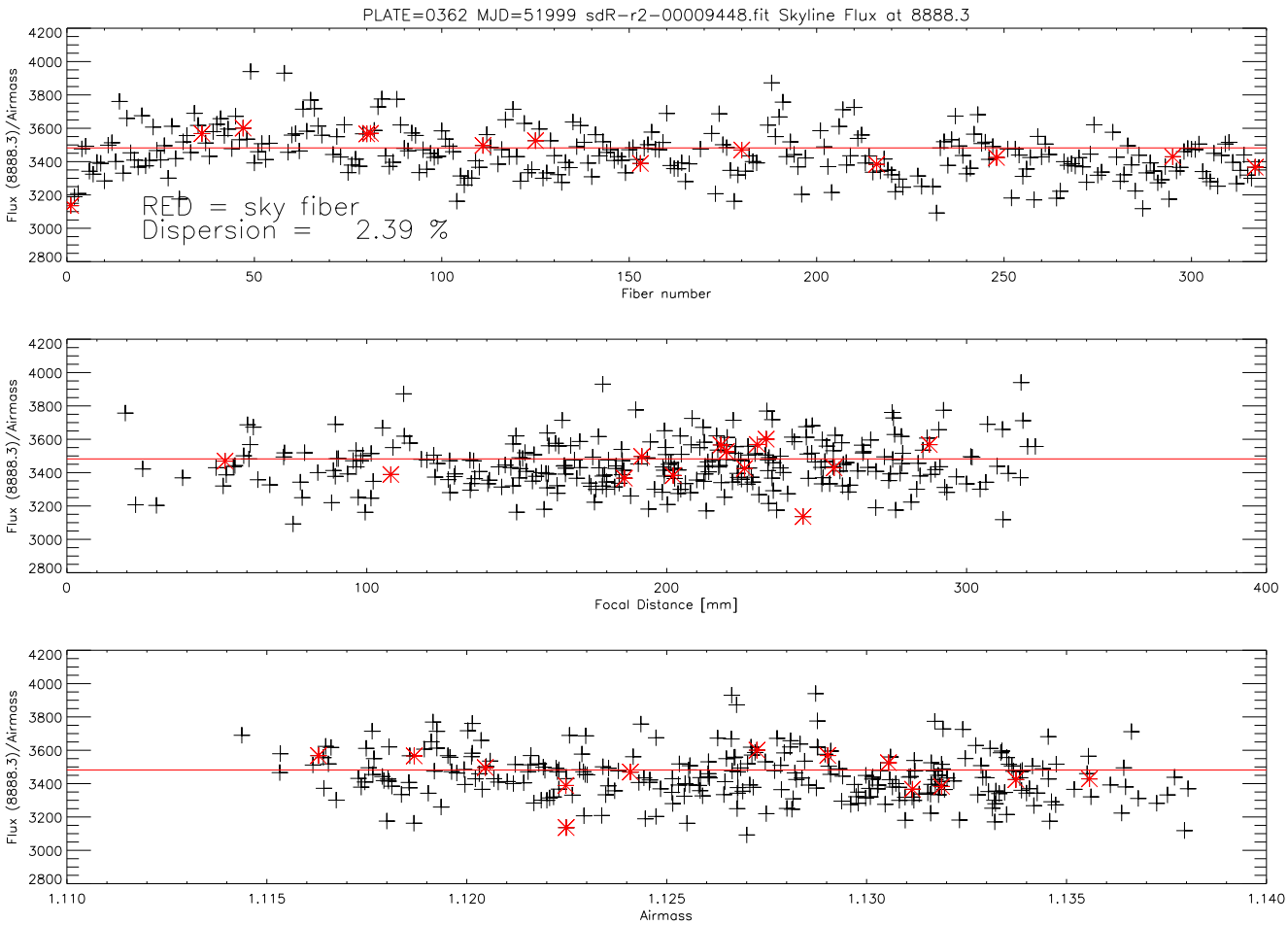

PLATE=0362 MJD=51999 sdR-r2-00009448.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

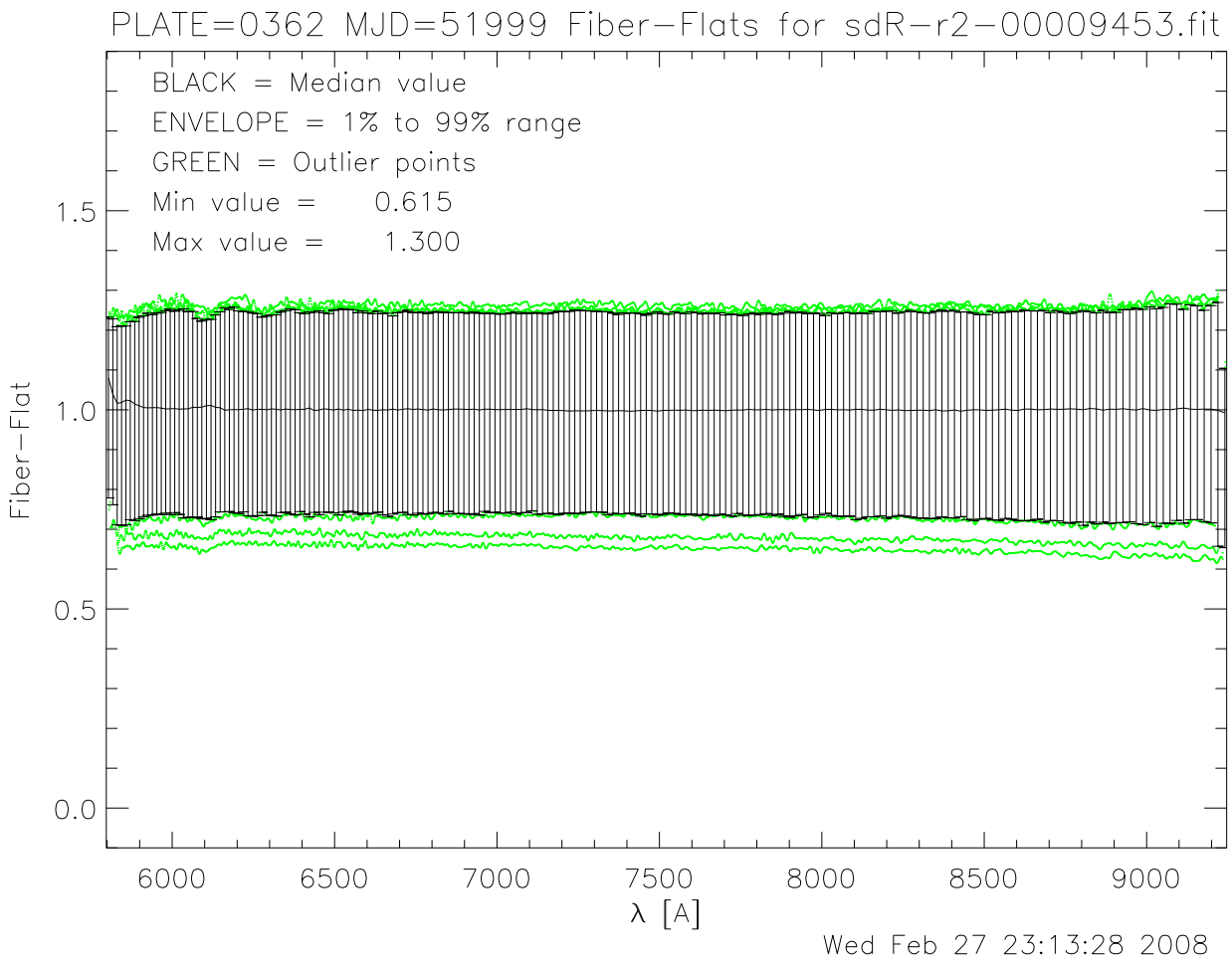

PLATE=0362 MJD=51999 sdR-r2-00009448.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

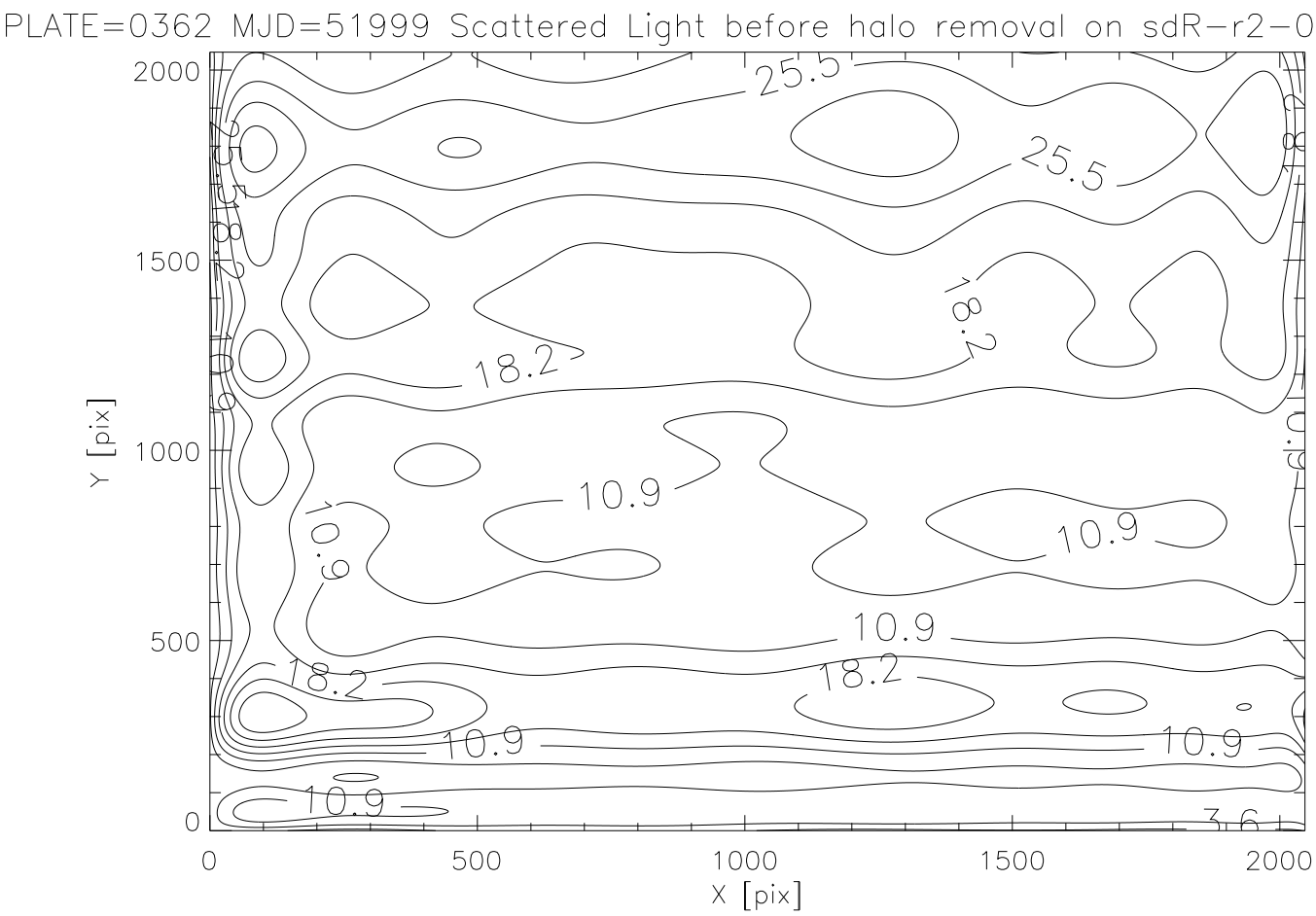

PLATE=0362 MJD=51999 sdR-r2-00009448.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

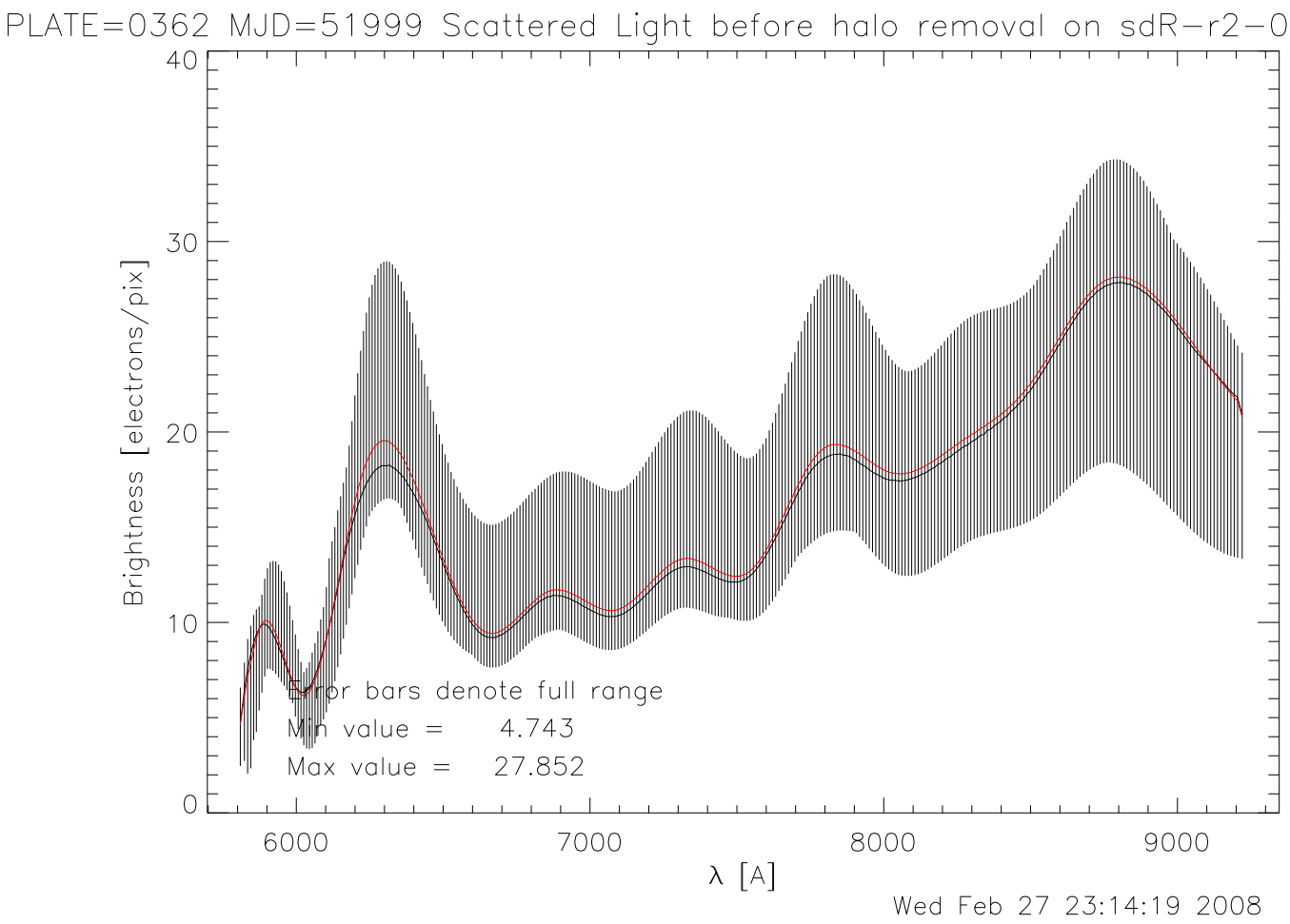

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r2-00009448.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

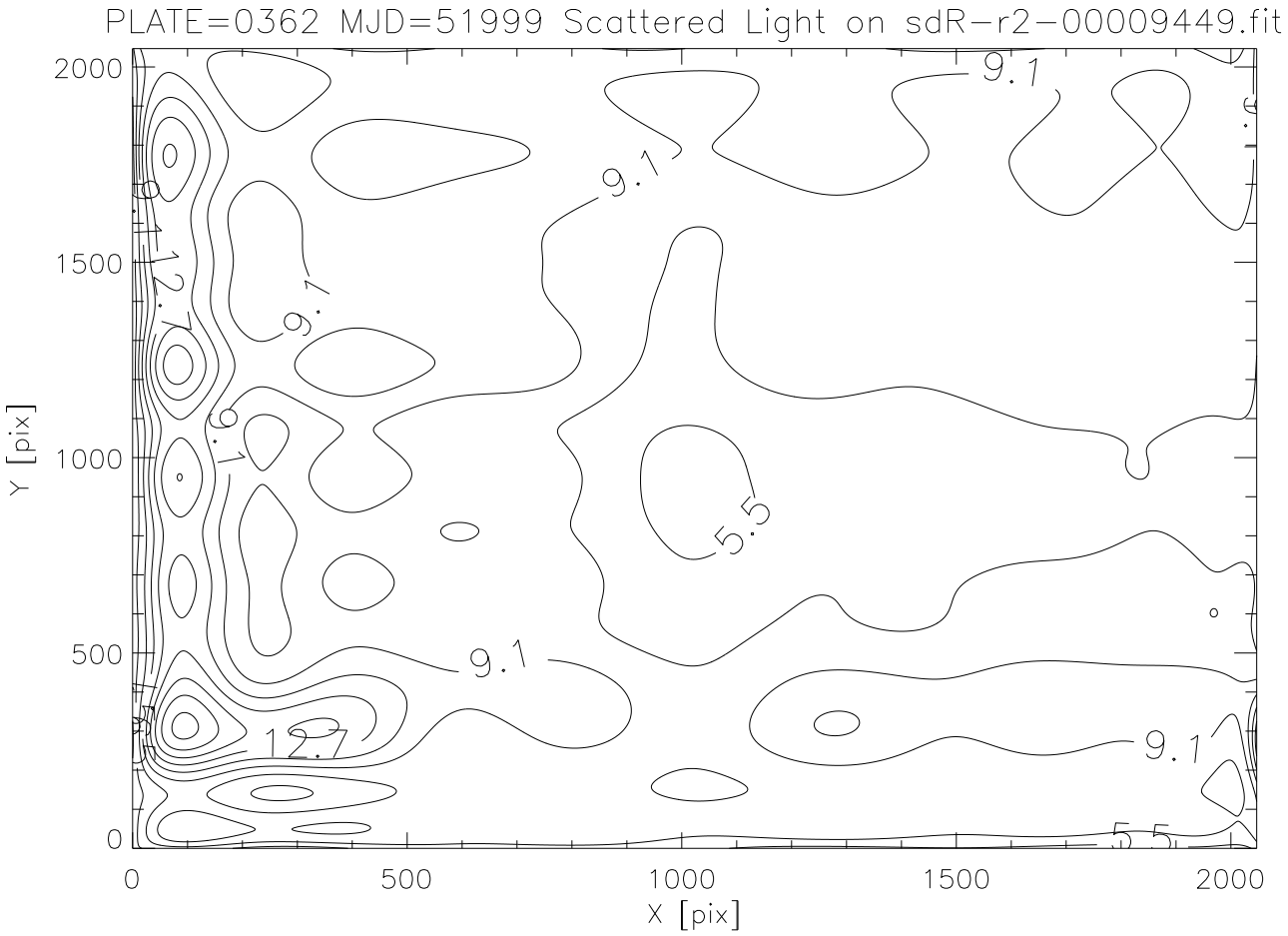

PLATE=0362 MJD=51999 sdR-r2-00009448.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 3.21 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

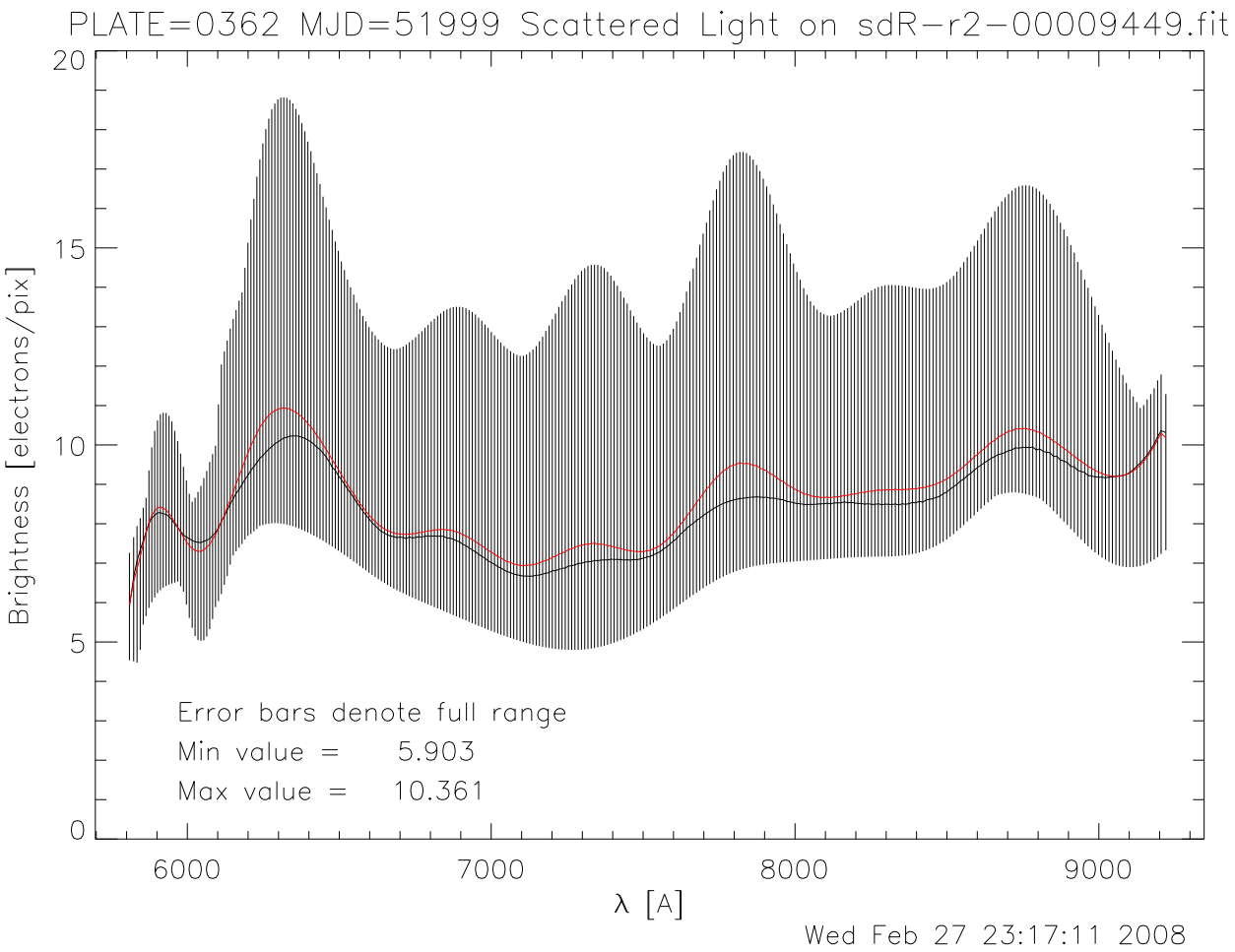

PLATE=0362 MJD=51999 sdR-r2-00009448.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.39 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

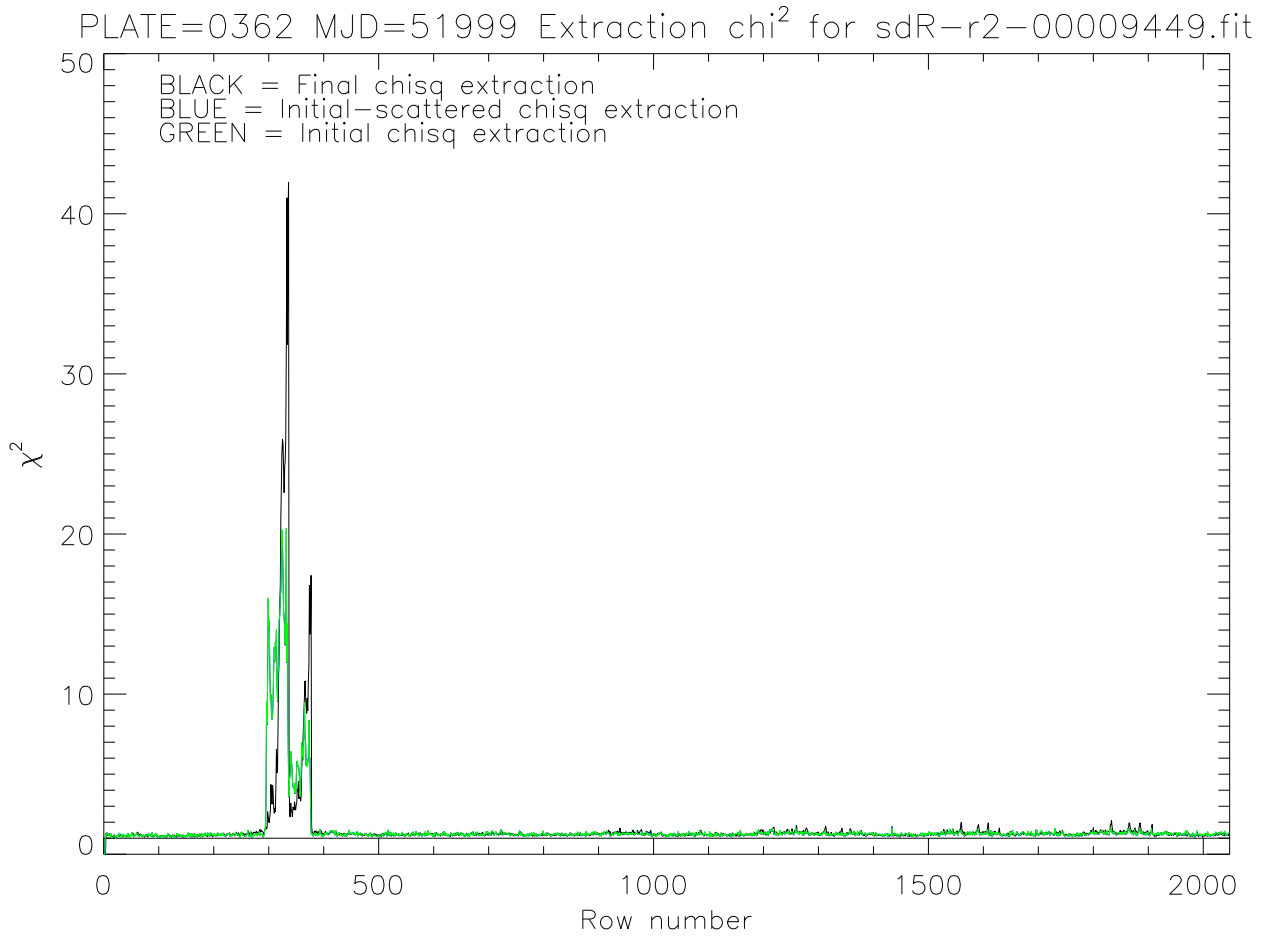

PLATE=0362 MJD=51999 Fiber-Flats for sdR-r2-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.615
Max value = 1.300
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 23:13:28 2008

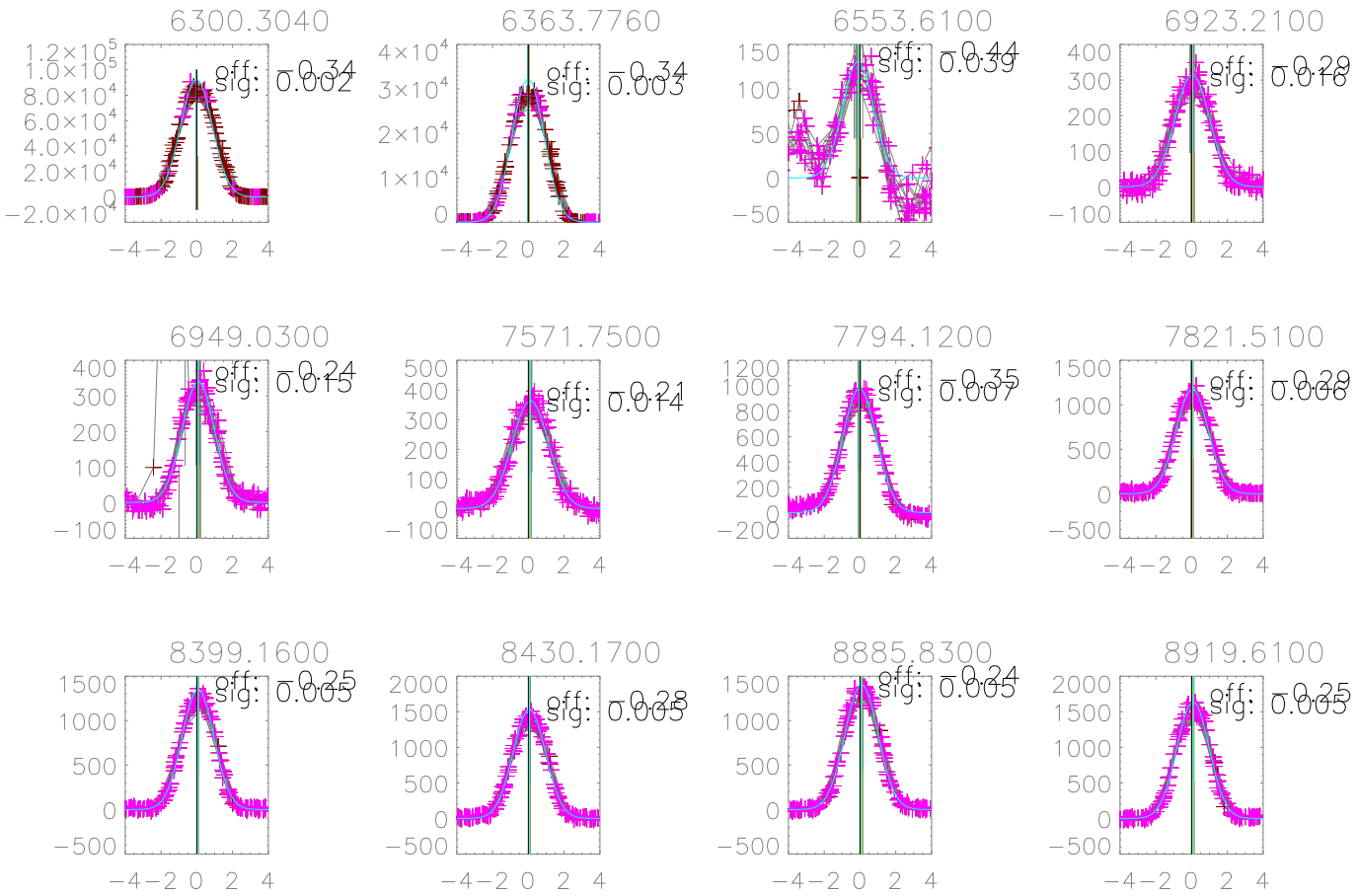

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r2-00009449.fi
25.5
18.2
10.9
3.6
Y [pix]
X [pix]
0
500
1000
1500
2000

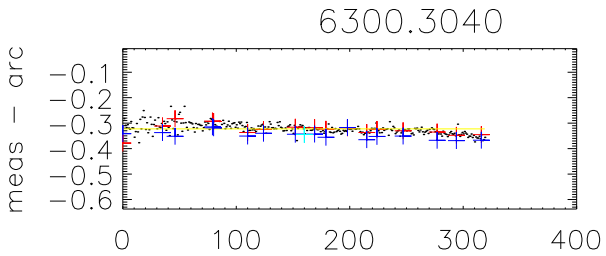

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r2-00009449.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.743
Max value = 27.852
Wed Feb 27 23:14:19 2008

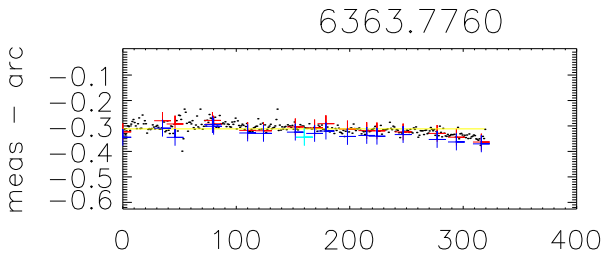

PLATE=0362 MJD=51999 Scattered Light on sdR-r2-00009449.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
9.1
9.1
5.5
9.1
12.7
9.1
5.5

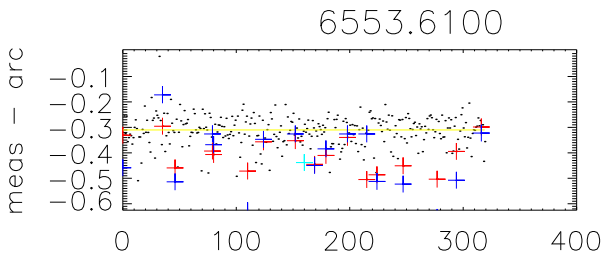

PLATE=0362 MJD=51999 Scattered Light on sdR-r2-00009449.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.903
Max value = 10.361
Wed Feb 27 23:17:11 2008

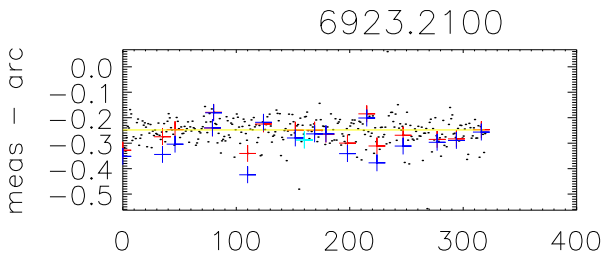

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-r2-00009449.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
10
20
30
40
50
0
500
1000
1500
2000
Row number

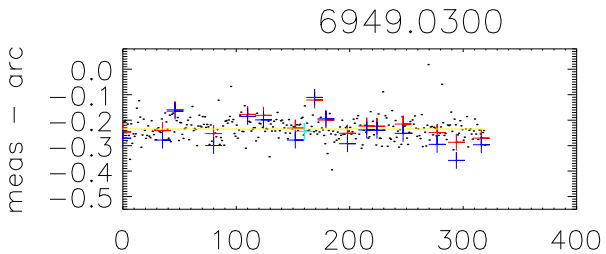

6300.3040
off: −0.34
sig: 0.002
6363.7760
off: −0.34
sig: 0.003
6553.6100
off: −0.44
sig: 0.039
6923.2100
off: −0.29
sig: 0.018
6949.0300
off: −0.24
sig: 0.015
7571.7500
off: −0.21
sig: 0.014
7794.1200
off: −0.35
sig: 0.007
7821.5100
off: −0.29
sig: 0.006
8399.1600
off: −0.25
sig: 0.005
8430.1700
off: −0.28
sig: 0.005
8885.8300
off: −0.24
sig: 0.005
8919.6100
off: −0.25
sig: 0.005

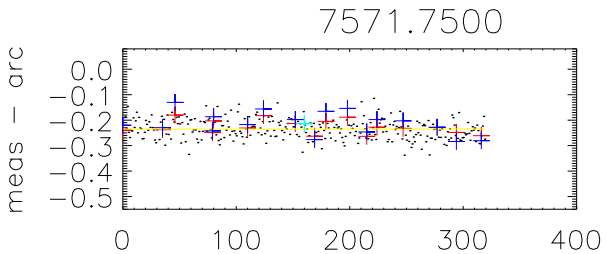

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

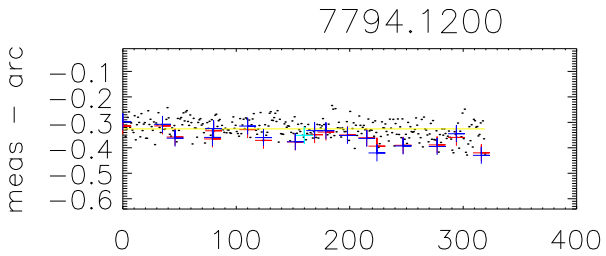

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

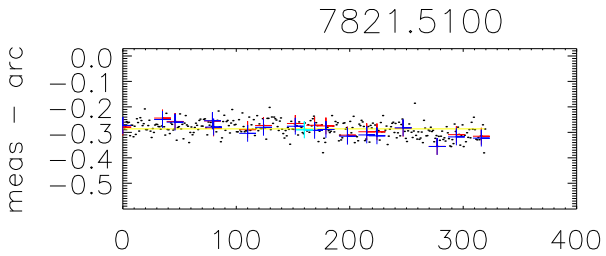

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

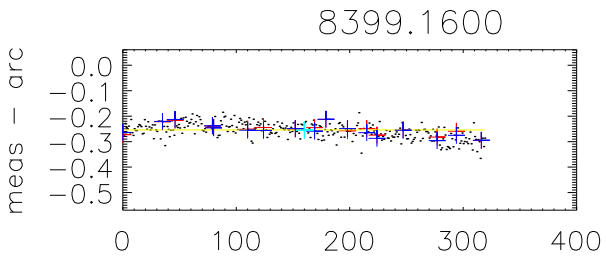

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

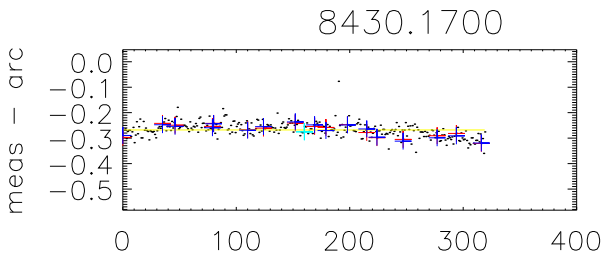

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

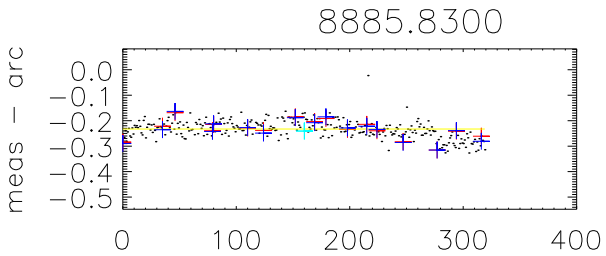

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

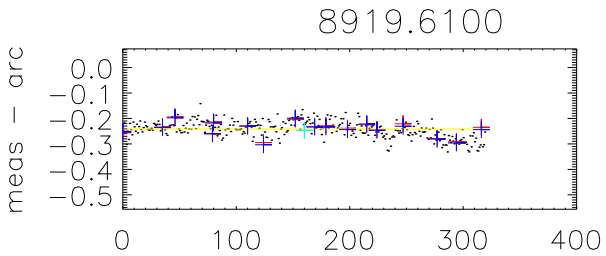

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

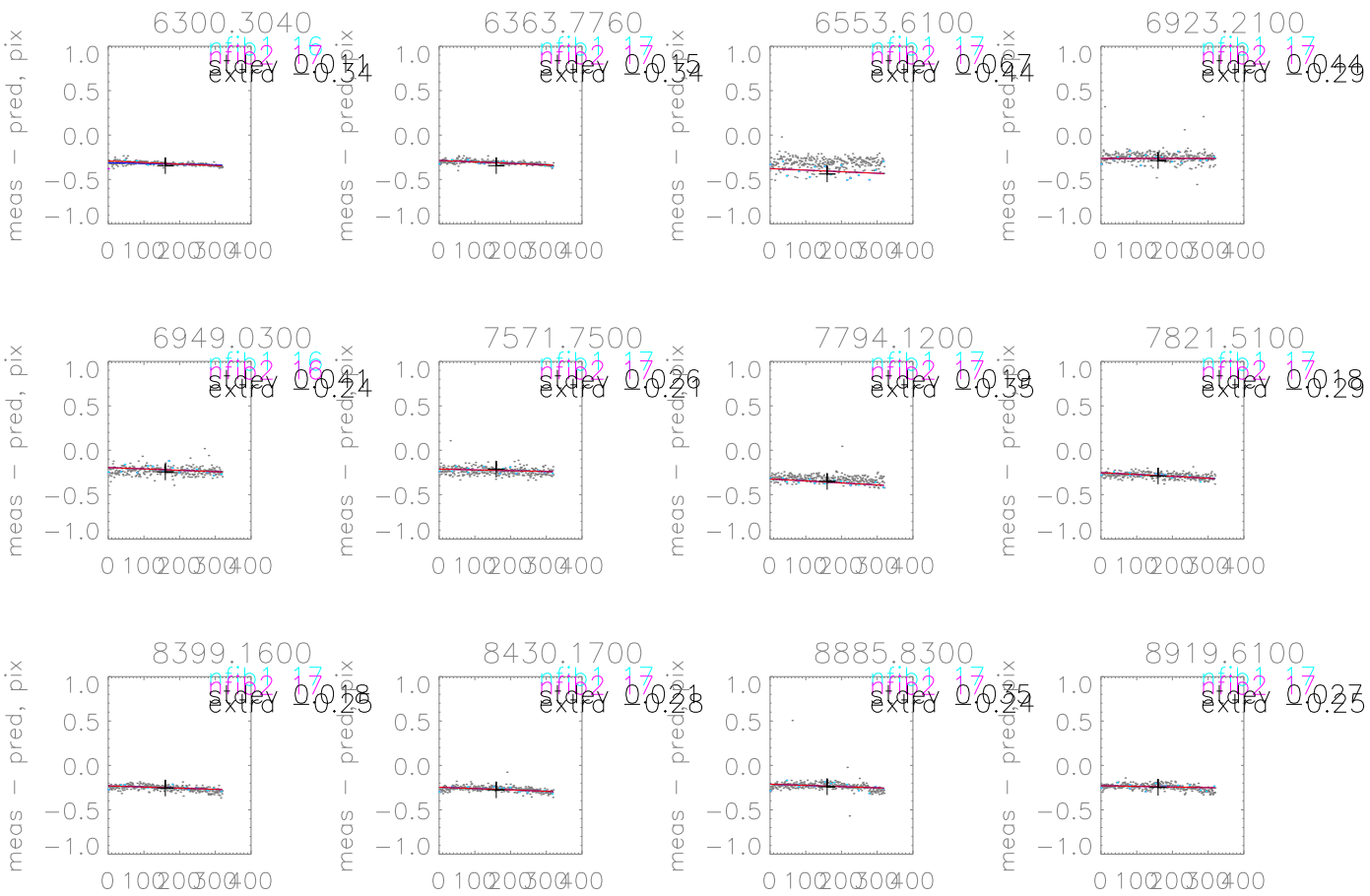

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

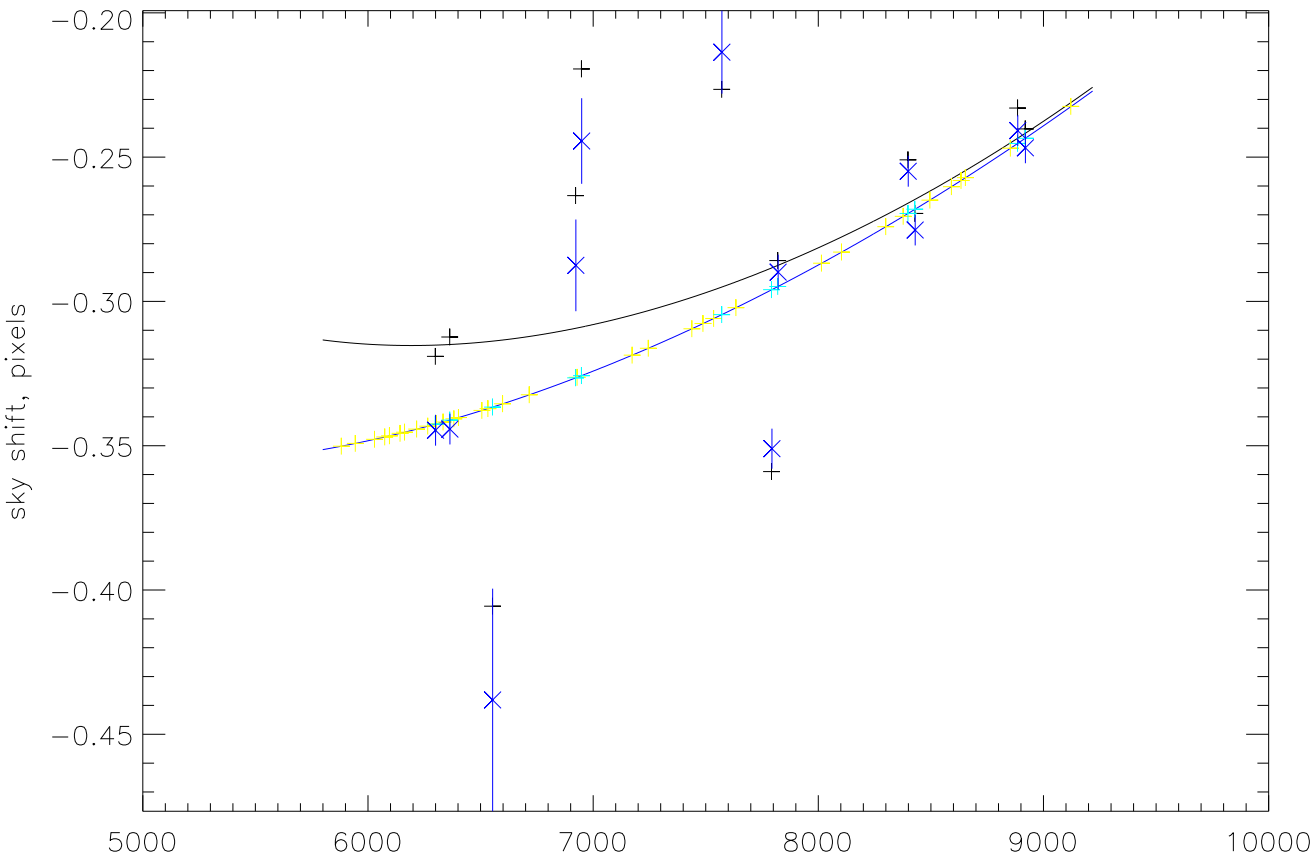

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

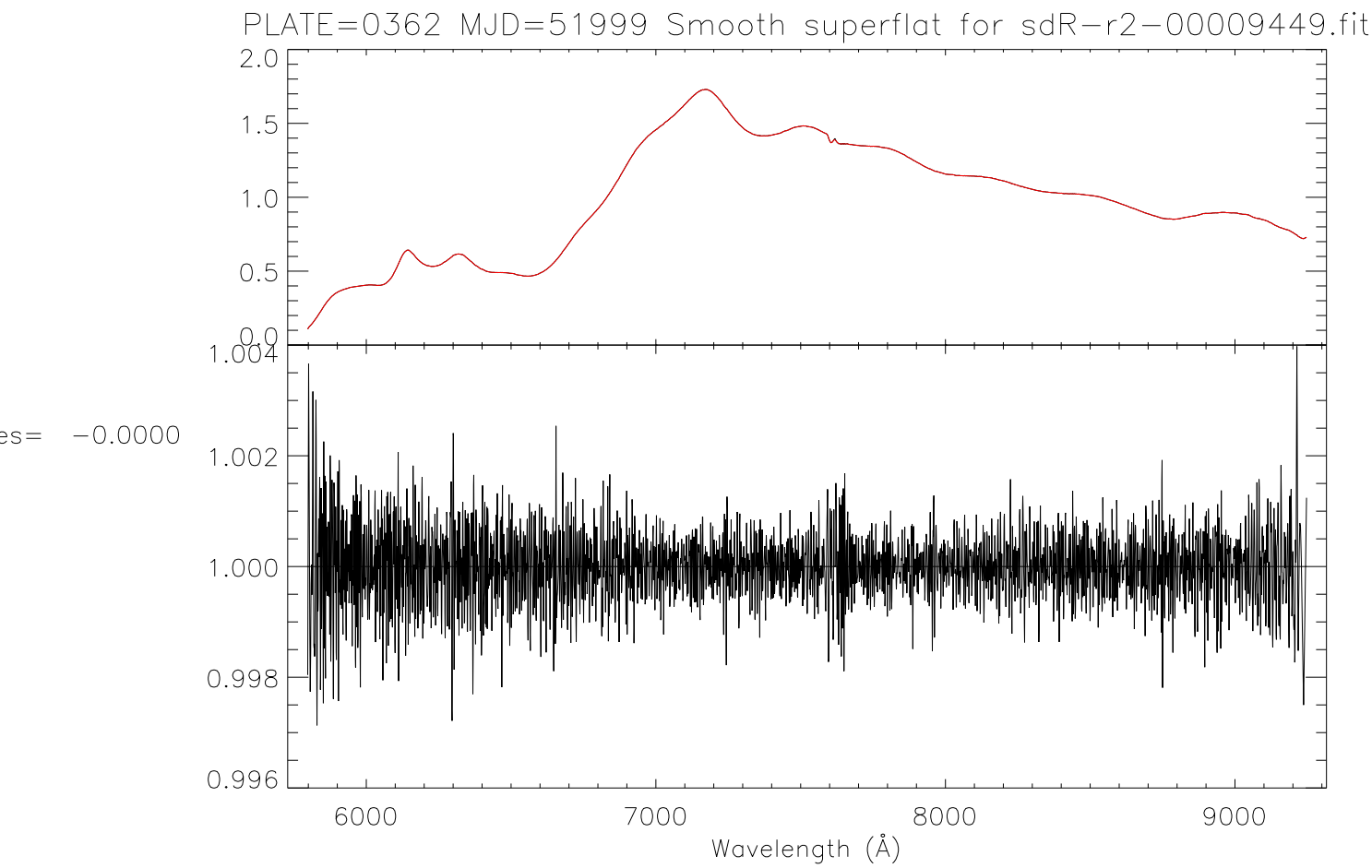

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

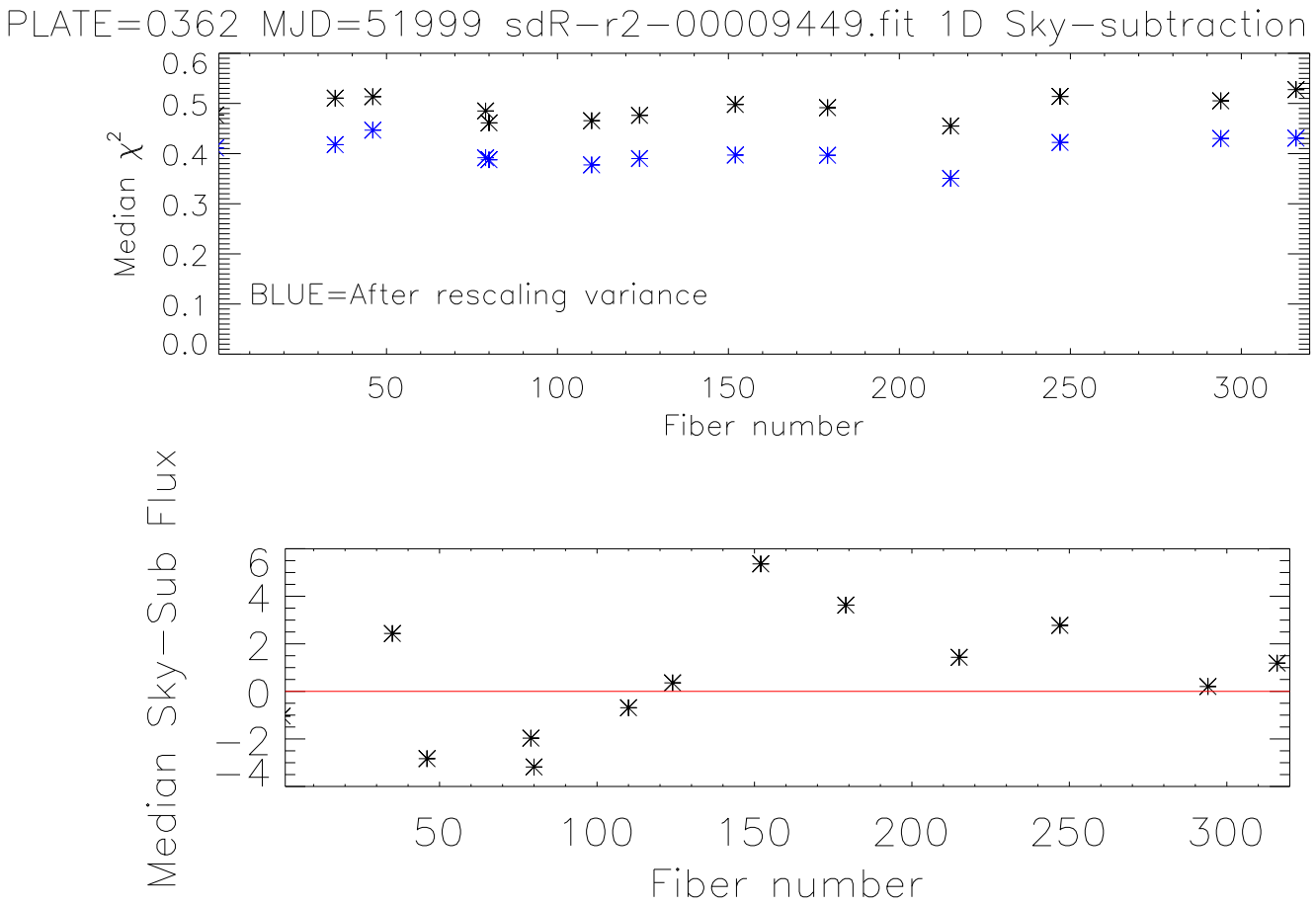

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

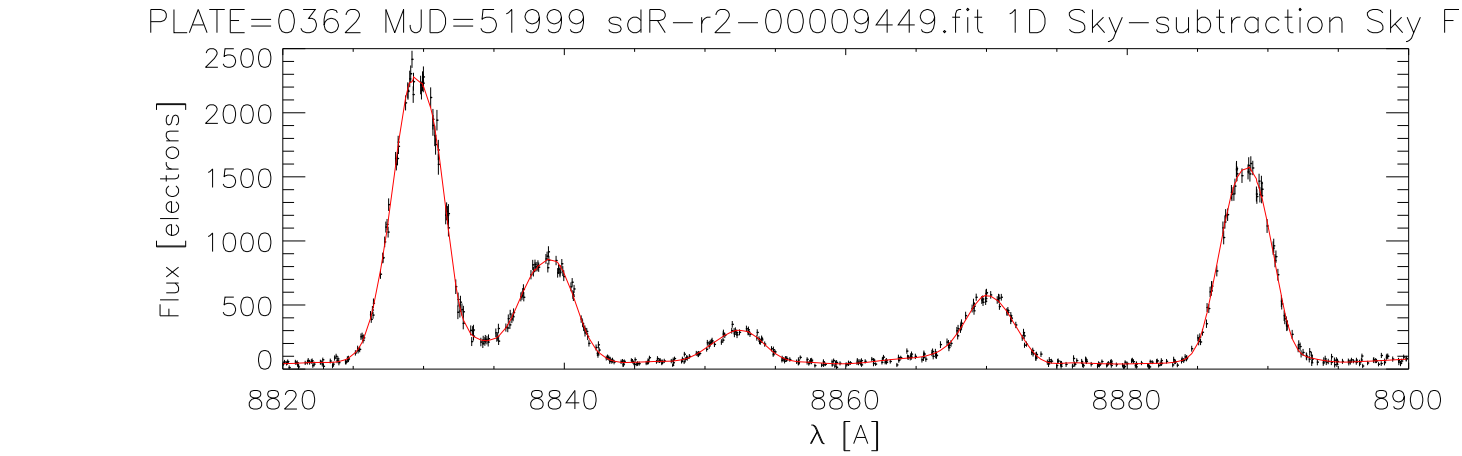

6300.3040
mfib1 16
mfib2 17
stdev 0.041
extra 0.34
6363.7760
mfib1 17
mfib2 17
stdev 0.035
extra 0.34
6553.6100
mfib1 17
mfib2 17
stdev 0.067
extra 0.44
6923.2100
mfib1 17
mfib2 17
stdev 0.044
extra 0.29
6949.0300
mfib1 16
mfib2 16
stdev 0.041
extra 0.24
7571.7500
mfib1 17
mfib2 17
stdev 0.026
extra 0.21
7794.1200
mfib1 17
mfib2 17
stdev 0.019
extra 0.35
7821.5100
mfib1 17
mfib2 17
stdev 0.018
extra 0.29
8399.1600
mfib1 17
mfib2 17
stdev 0.018
extra 0.25
8430.1700
mfib1 17
mfib2 17
stdev 0.021
extra 0.28
8885.8300
mfib1 17
mfib2 17
stdev 0.035
extra 0.24
8919.6100
mfib1 17
mfib2 17
stdev 0.027
extra 0.25
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

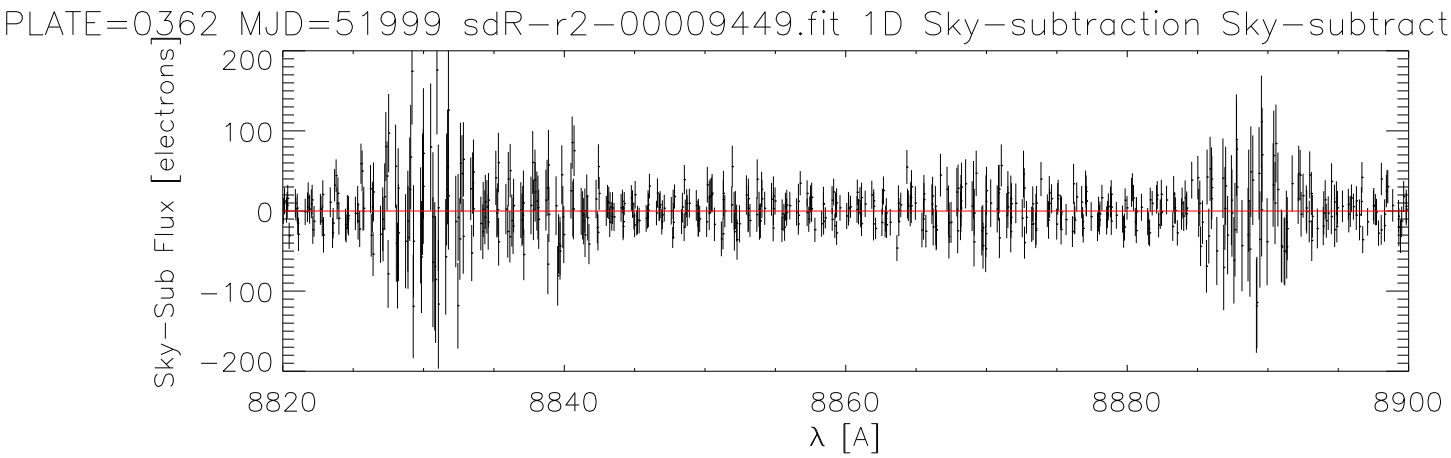

−0.20
−0.25
−0.30
−0.35
−0.40
−0.45
sky shift, pixels
5000
6000
7000
8000
9000
10000

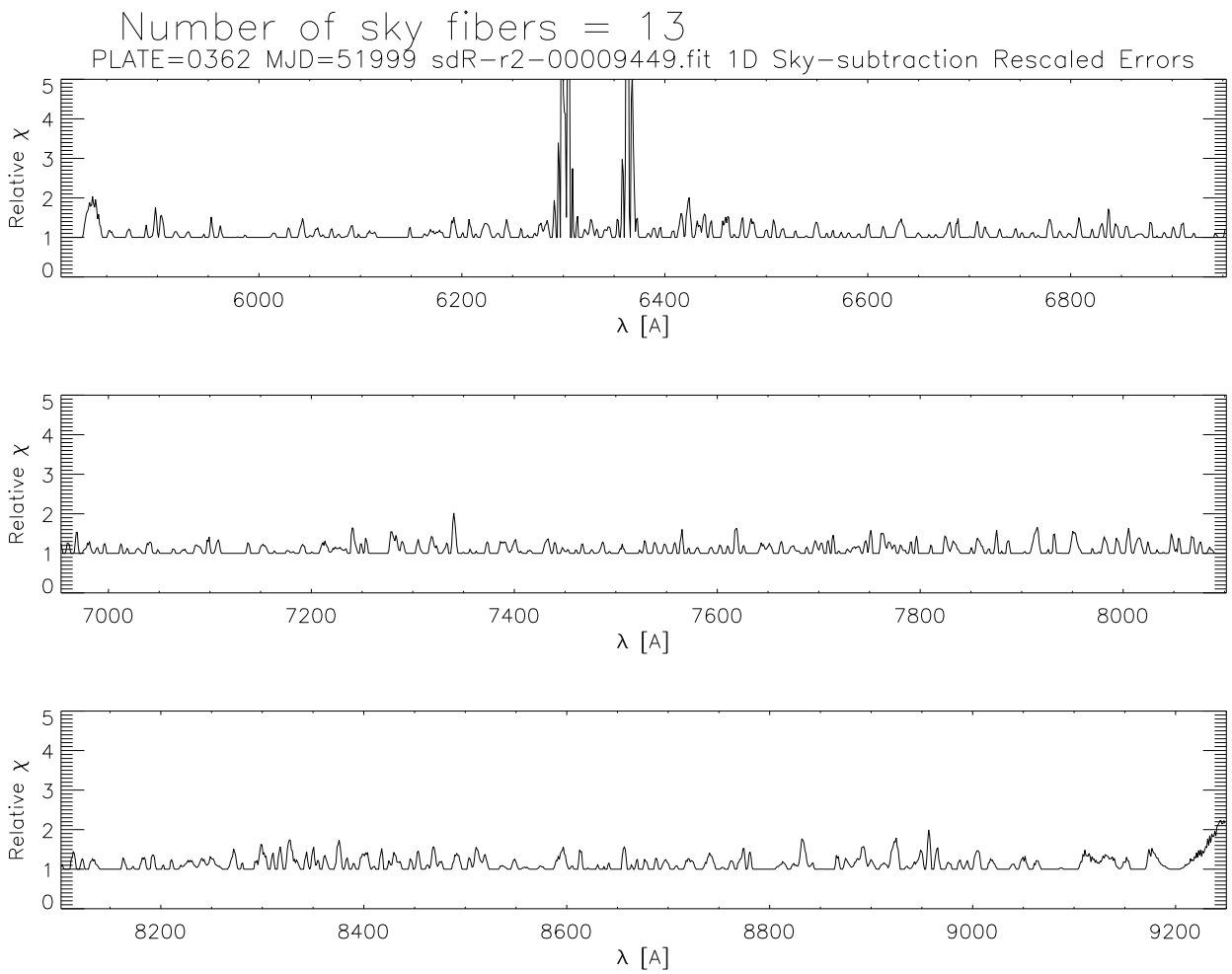

PLATE=0362 MJD=51999 Smooth superflat for sdR-r2-00009449.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

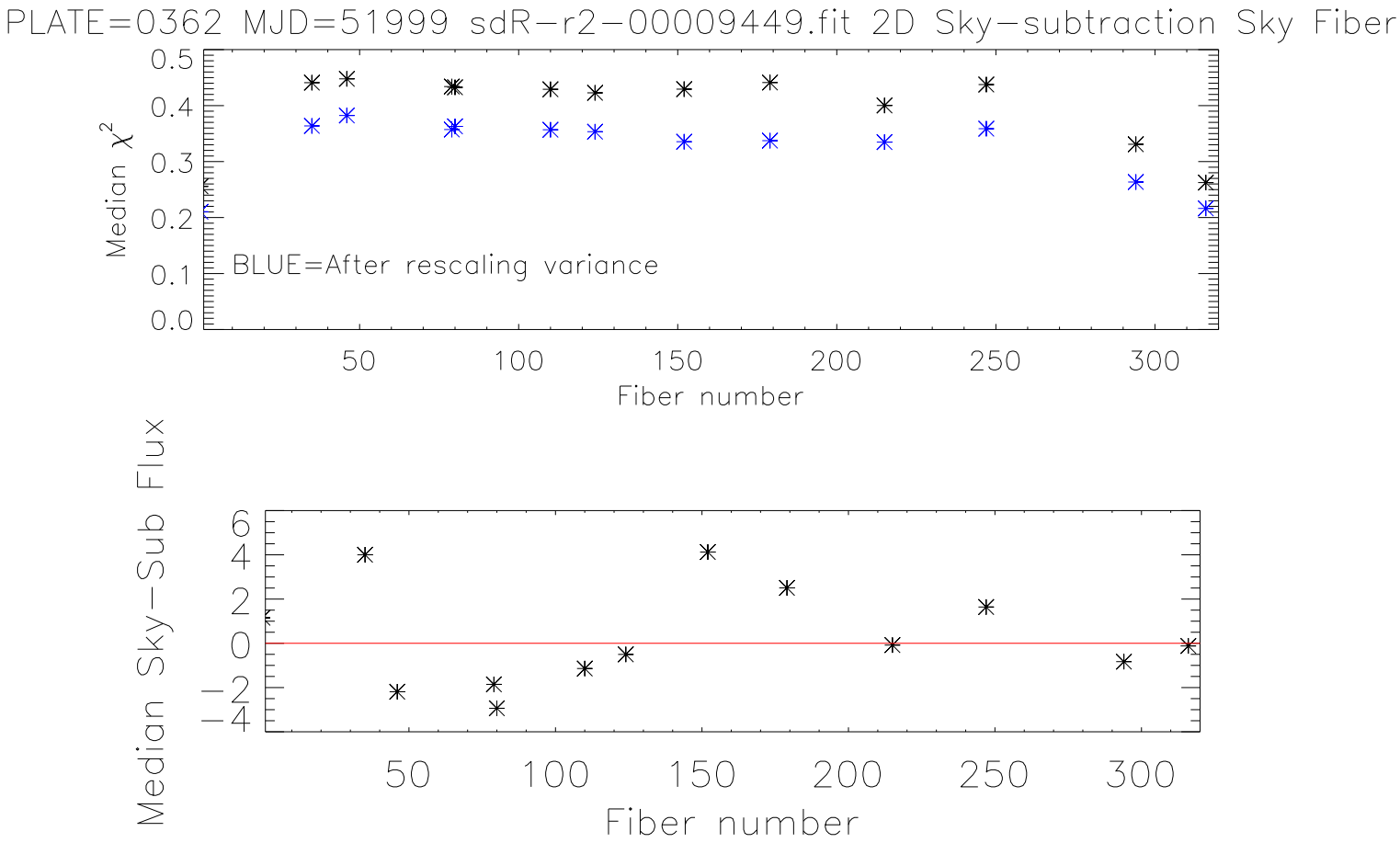
es= −0.0000

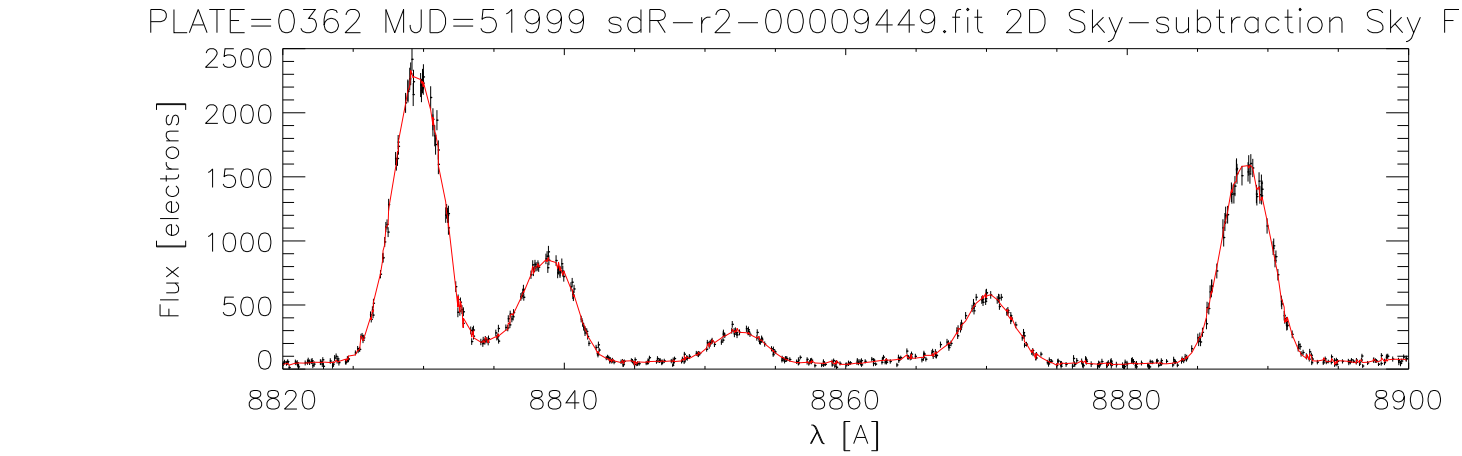

PLATE=0362 MJD=51999 sdR-r2-00009449.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

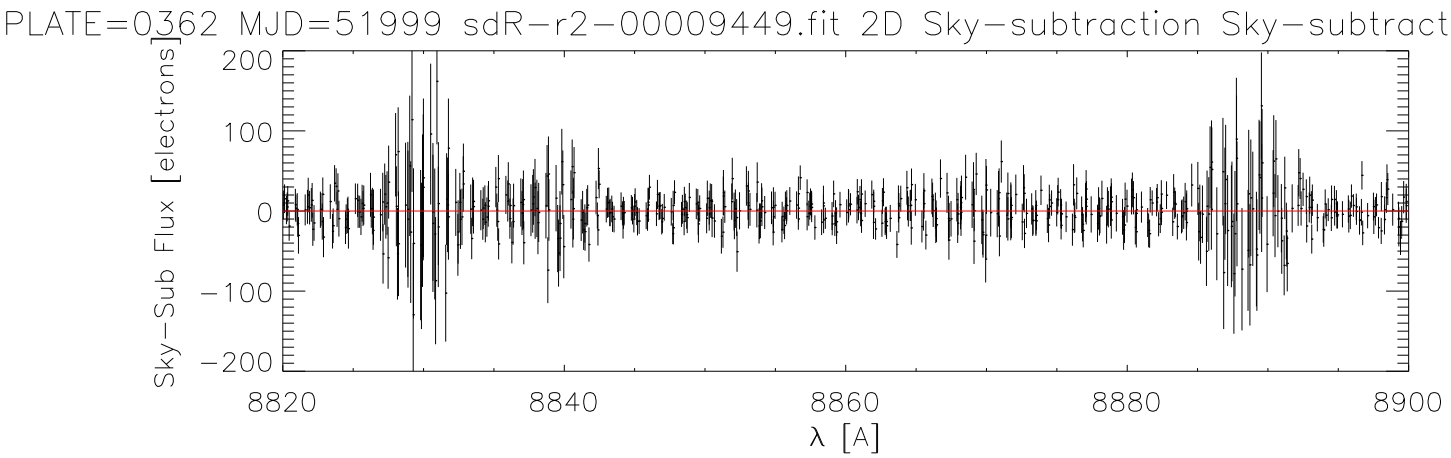

PLATE=0362 MJD=51999 sdR-r2-00009449.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

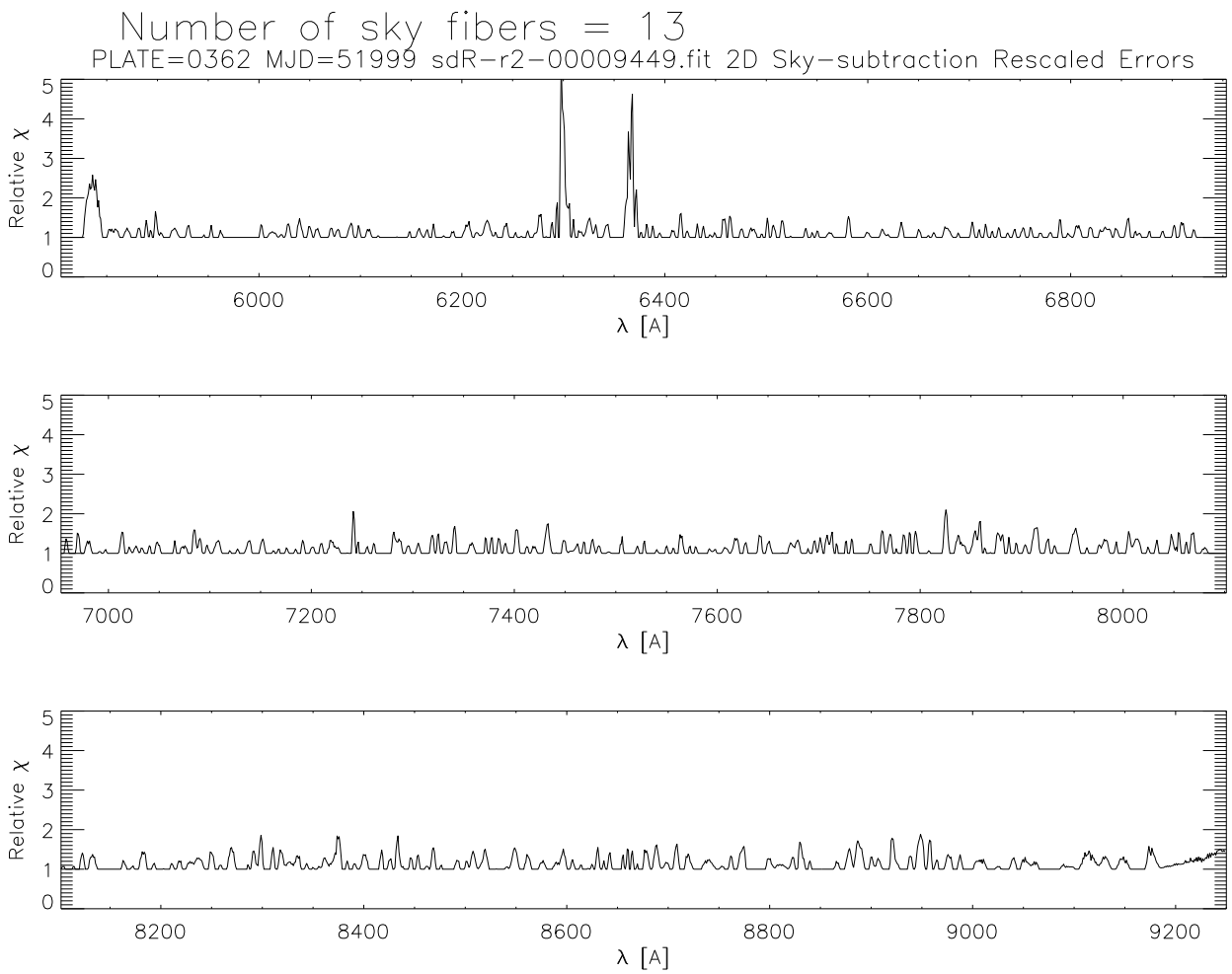

PLATE=0362 MJD=51999 sdR-r2-00009449.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

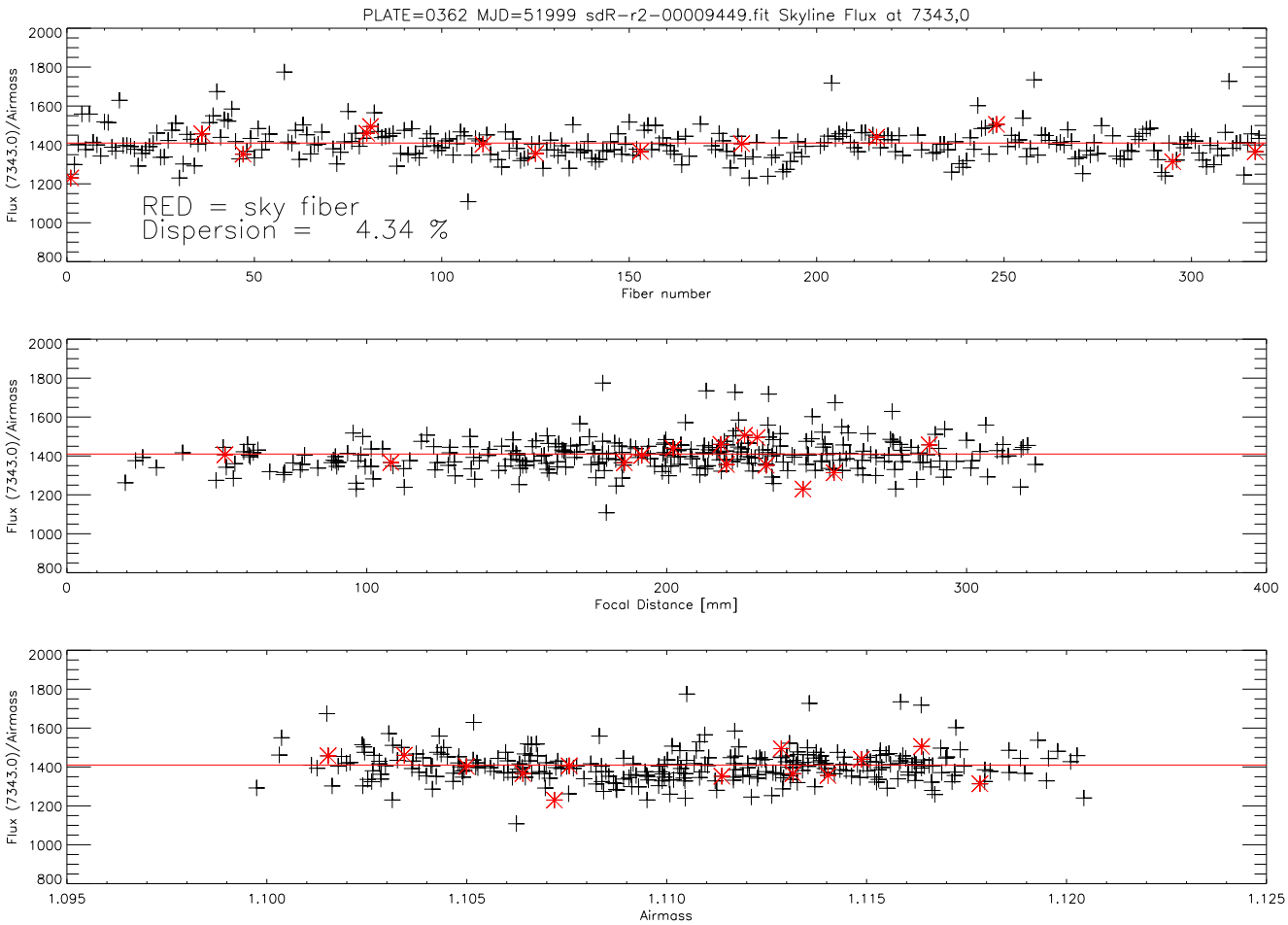

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r2-00009449.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

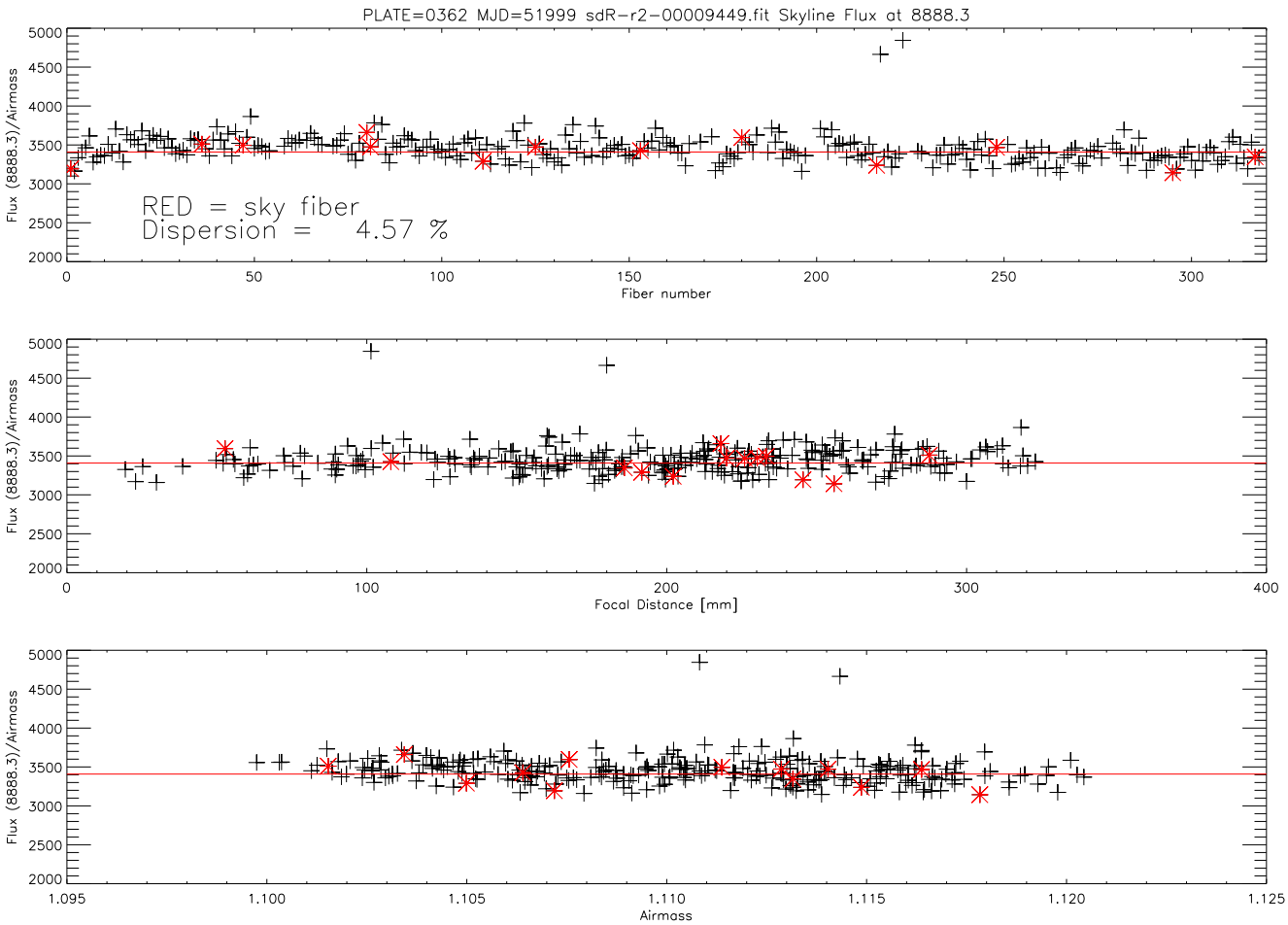

PLATE=0362 MJD=51999 sdR-r2-00009449.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

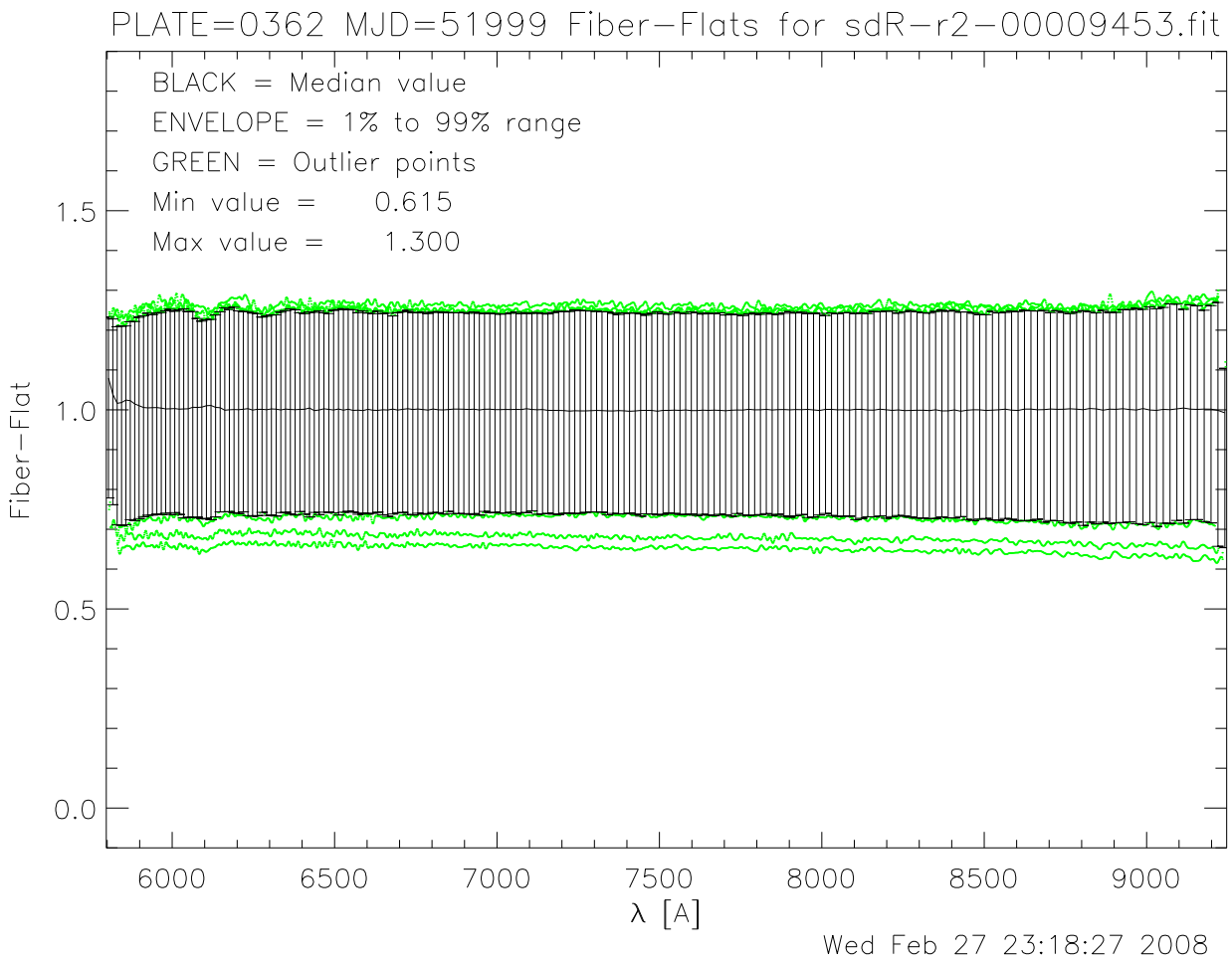

PLATE=0362 MJD=51999 sdR-r2-00009449.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

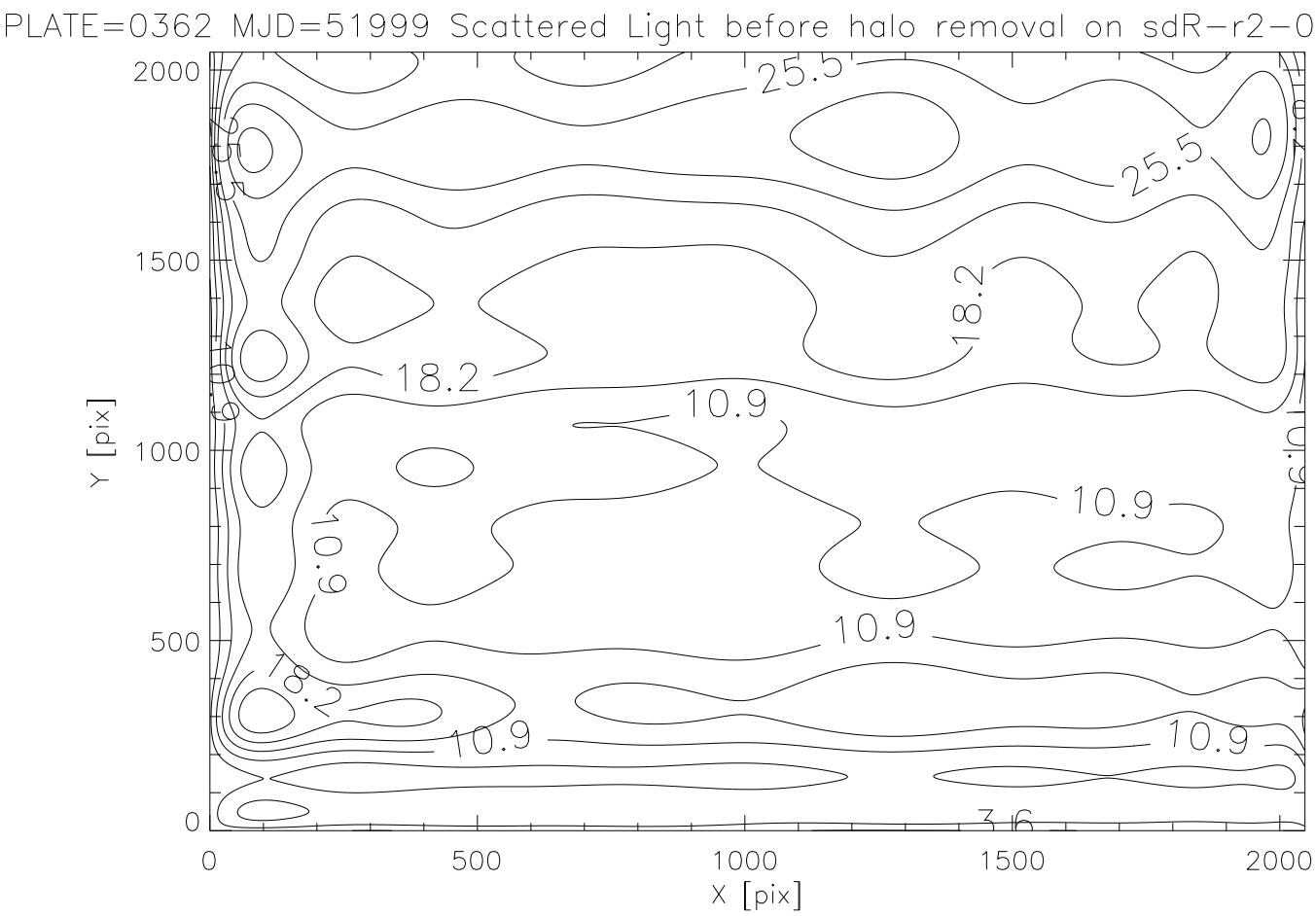

PLATE=0362 MJD=51999 sdR-r2-00009449.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

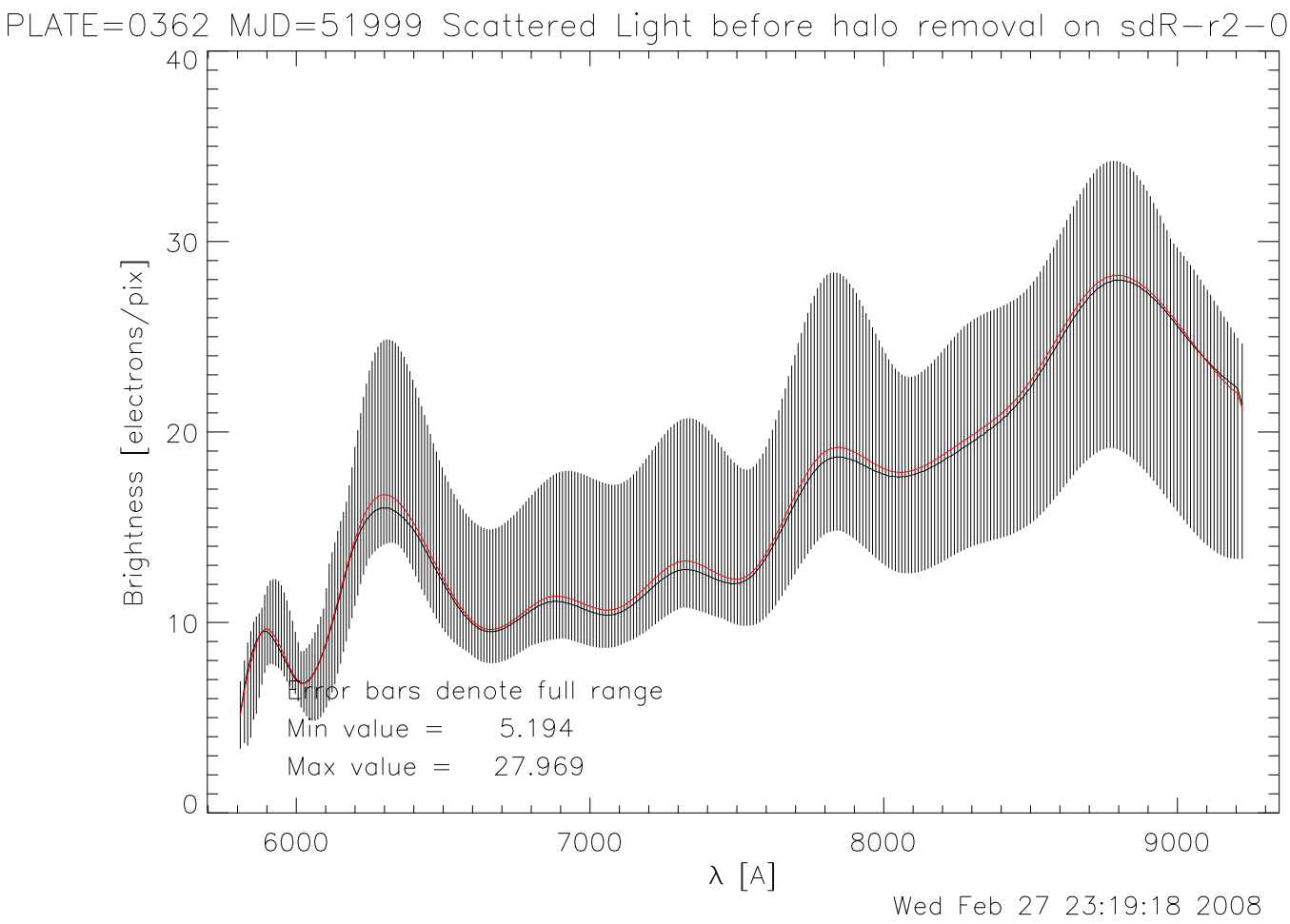

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r2-00009449.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

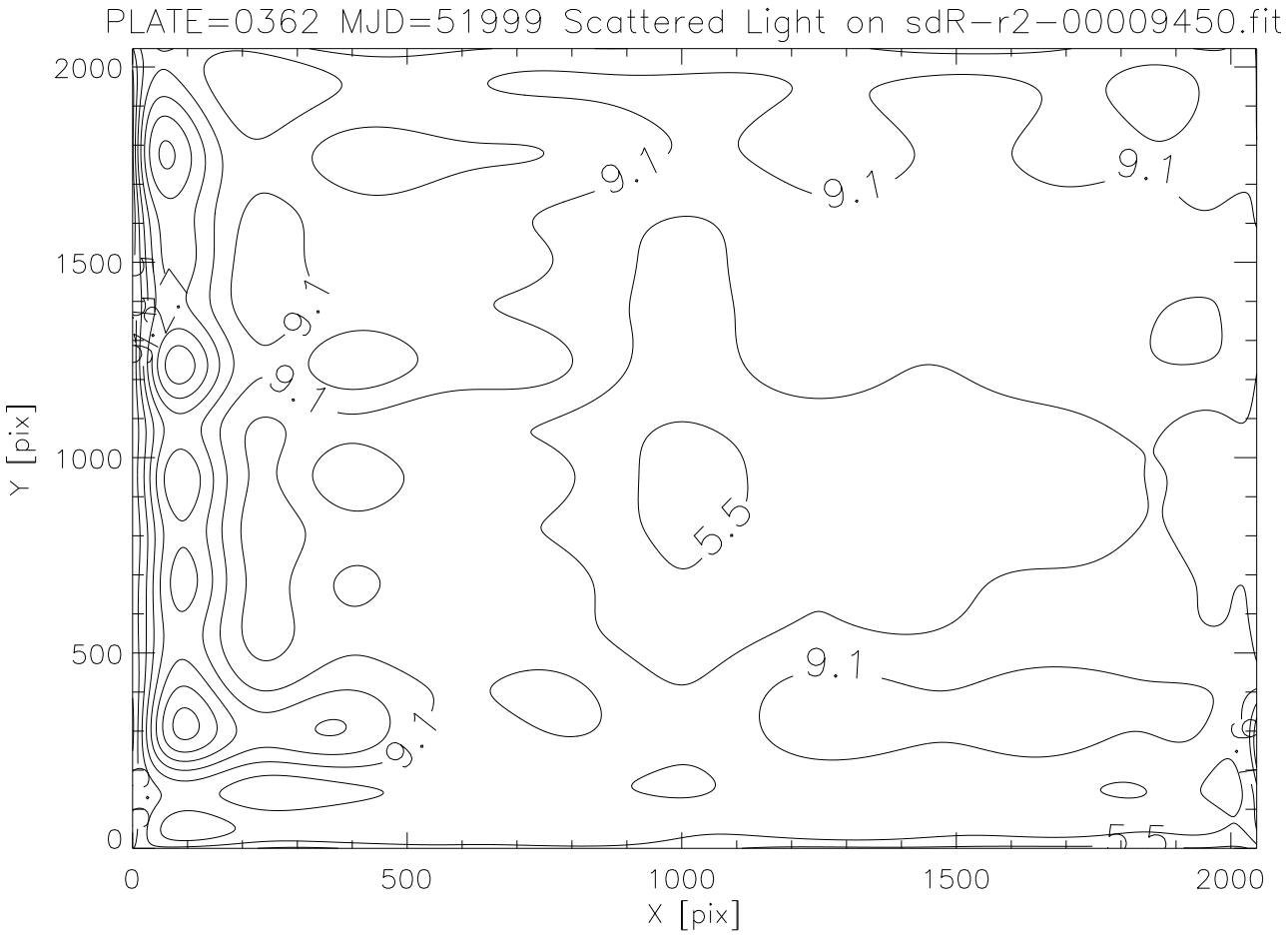

PLATE=0362 MJD=51999 sdR-r2-00009449.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.34 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

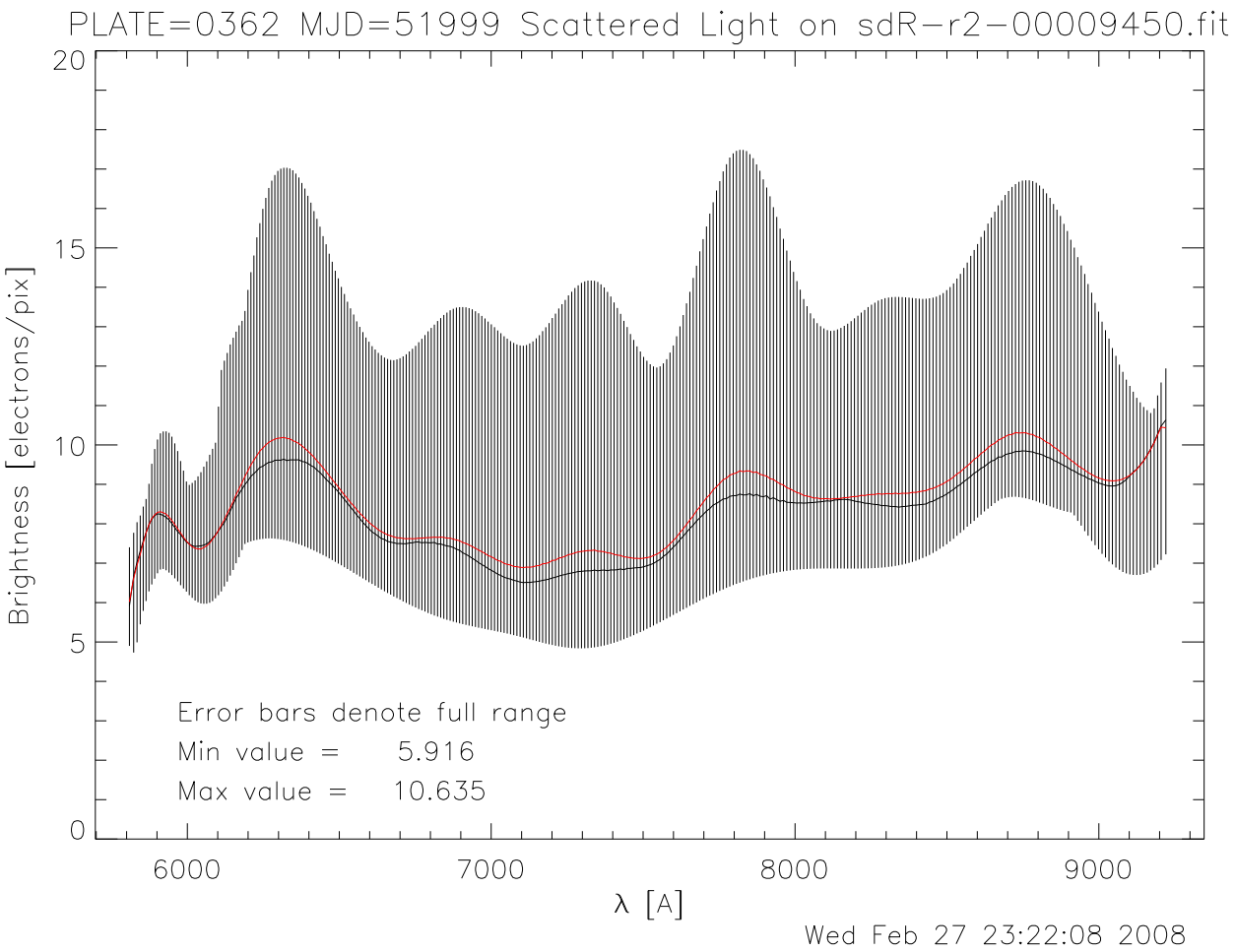

PLATE=0362 MJD=51999 sdR-r2-00009449.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.57 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

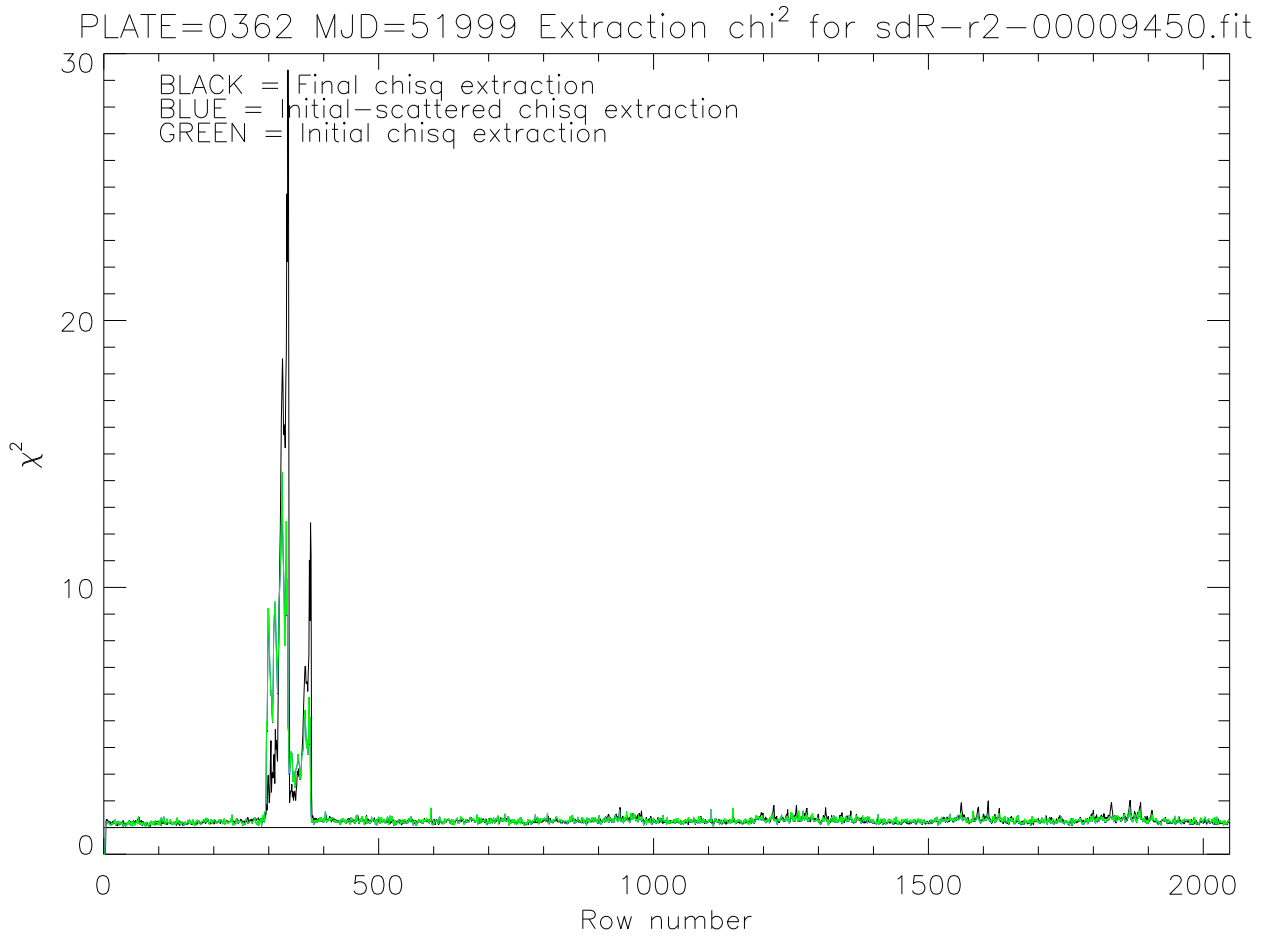

PLATE=0362 MJD=51999 Fiber-Flats for sdR-r2-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.615
Max value = 1.300
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 23:18:27 2008

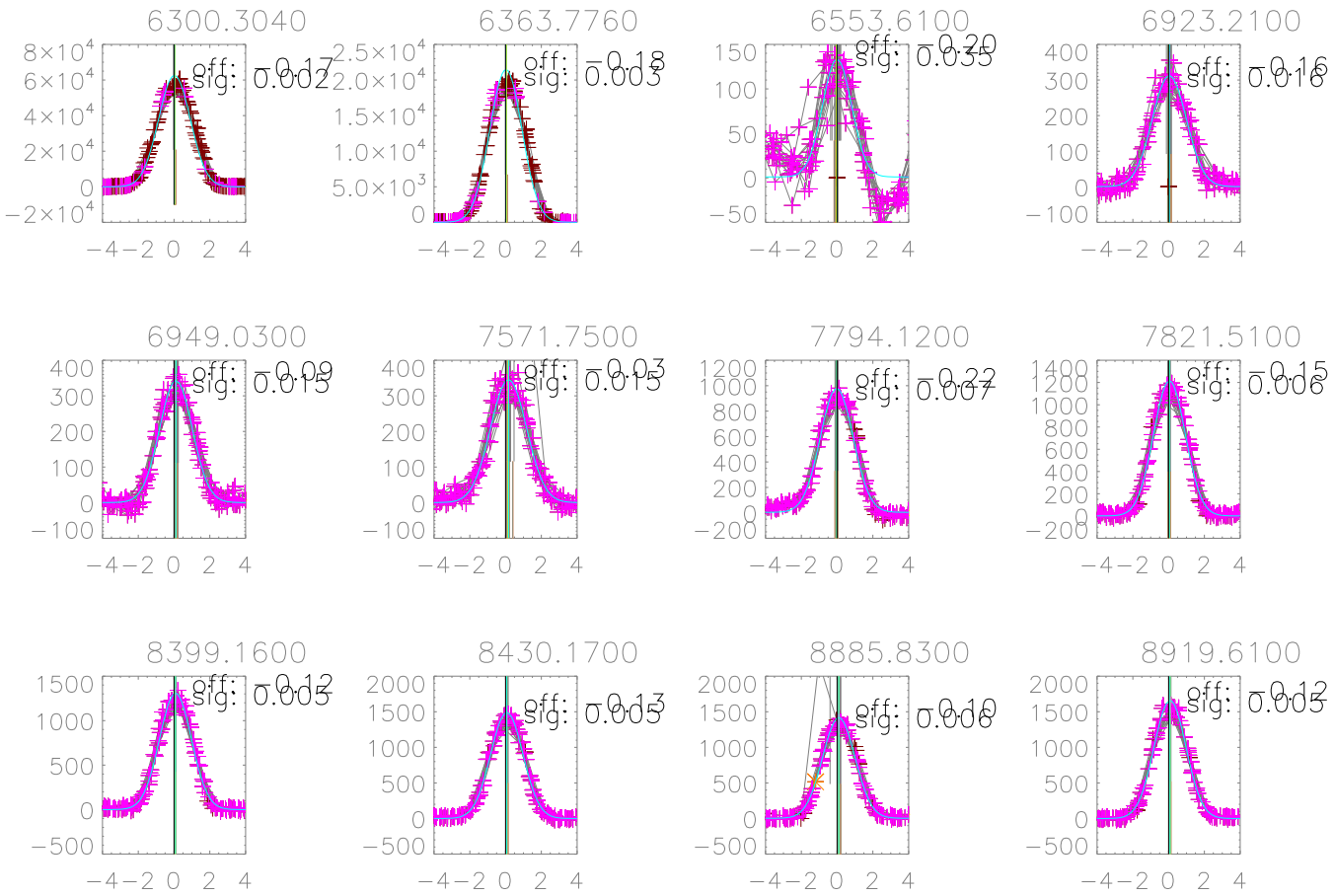

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r2-00009450.fi
25.5
25.5
18.2
18.2
10.9
10.9
10.9
10.9
10.9
3.6
Y [pix]
X [pix]
0
500
1000
1500
2000

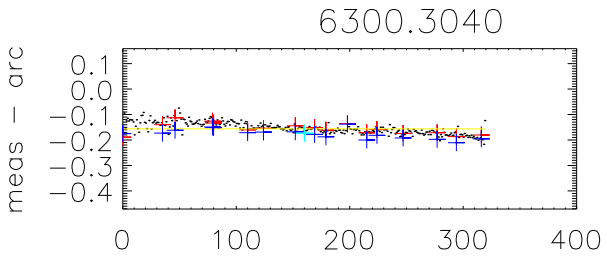

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r2-00009450.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.194
Max value = 27.969
Wed Feb 27 23:19:18 2008

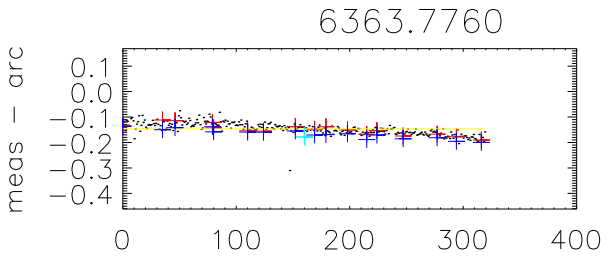

PLATE=0362 MJD=51999 Scattered Light on sdR-r2-00009450.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
5.5

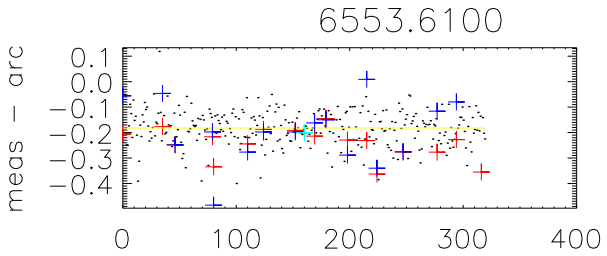

PLATE=0362 MJD=51999 Scattered Light on sdR-r2-00009450.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.916
Max value = 10.635
Wed Feb 27 23:22:08 2008

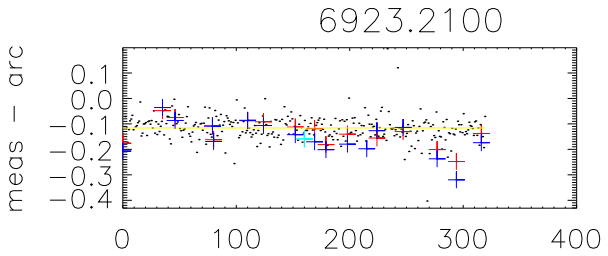

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-r2-00009450.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
30
20
10
0
0
500
1000
1500
2000
Row number

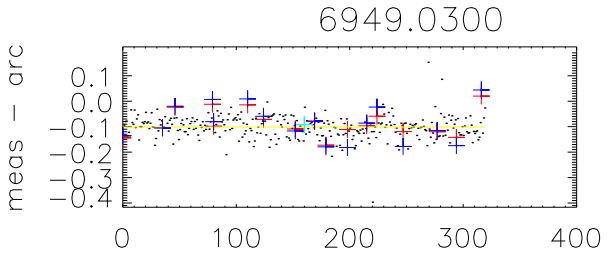

6300.3040
off: −0.17
sig: 0.002
6363.7760
off: −0.18
sig: 0.003
6553.6100
off: −0.20
sig: 0.035
6923.2100
off: −0.16
sig: 0.018
6949.0300
off: −0.09
sig: 0.015
7571.7500
off: −0.03
sig: 0.015
7794.1200
off: −0.22
sig: 0.007
7821.5100
off: −0.15
sig: 0.006
8399.1600
off: −0.12
sig: 0.005
8430.1700
off: −0.13
sig: 0.005
8885.8300
off: −0.10
sig: 0.008
8919.6100
off: −0.12
sig: 0.005

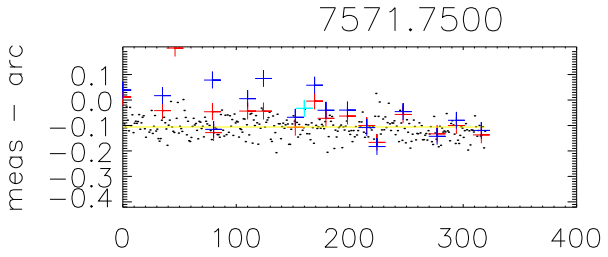

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

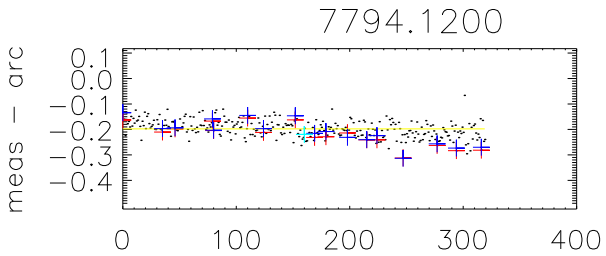

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

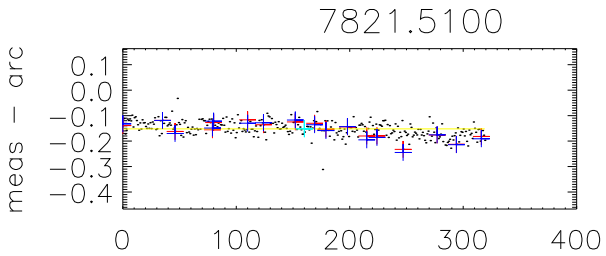

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

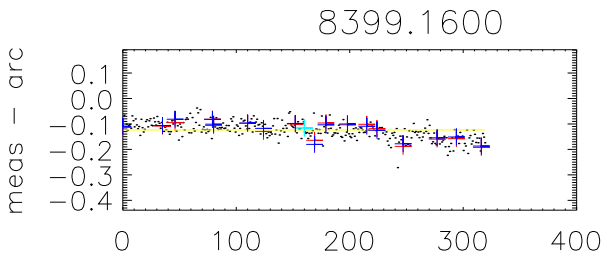

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

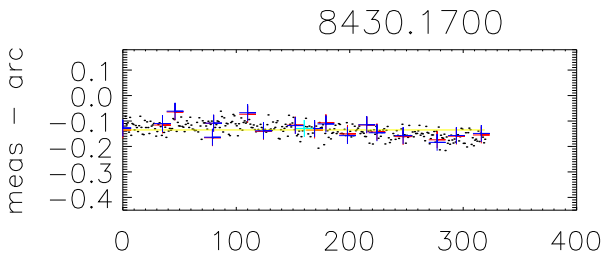

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

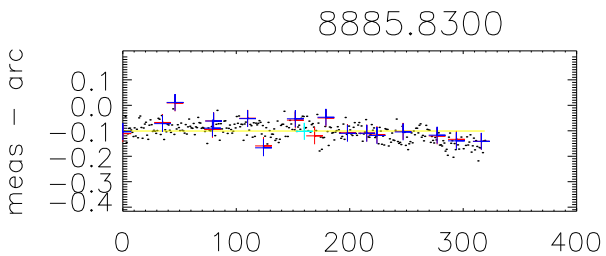

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

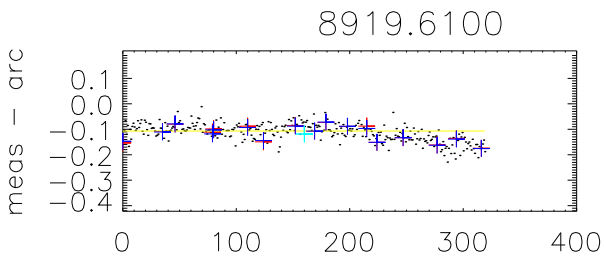

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

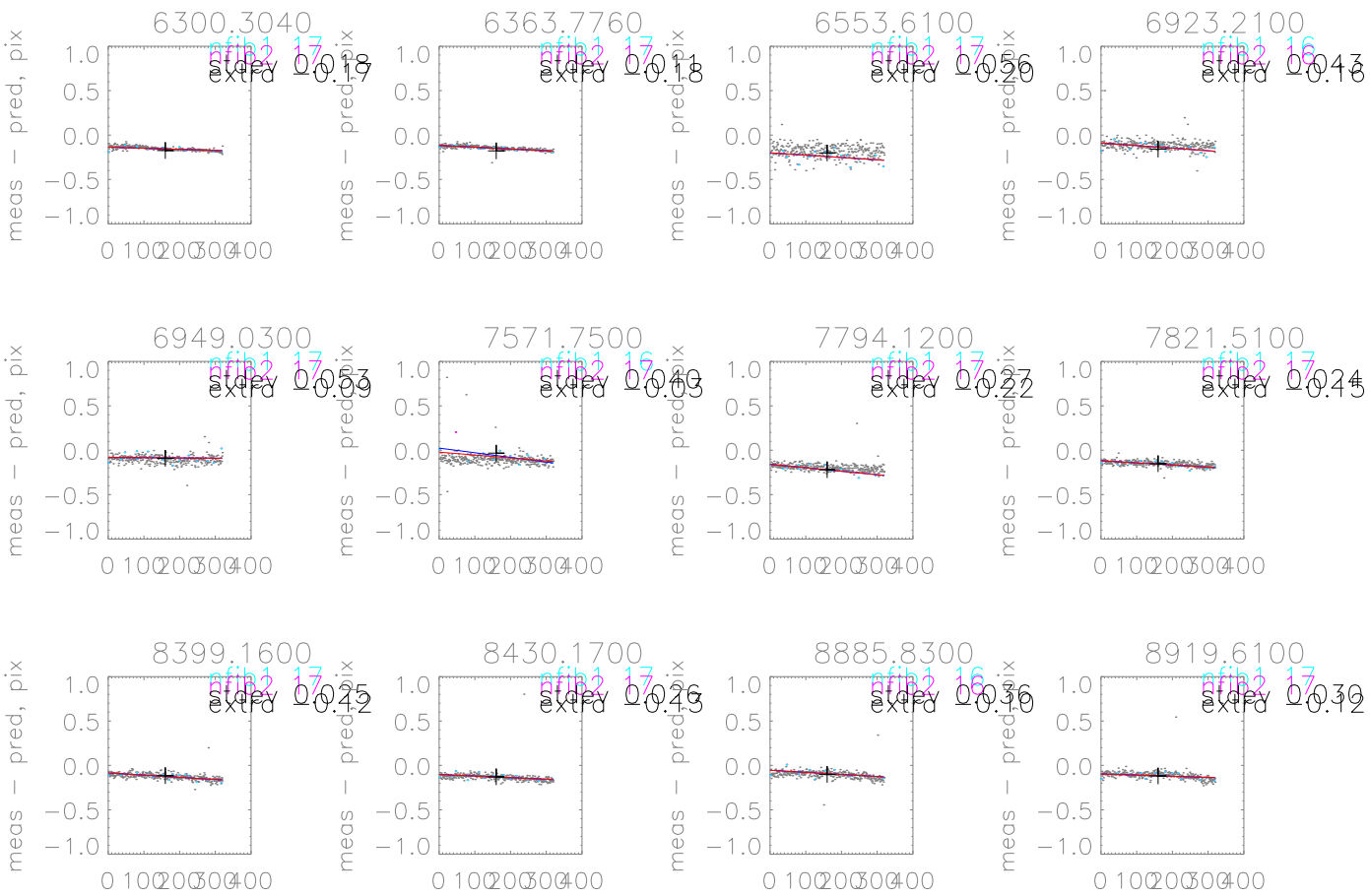

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

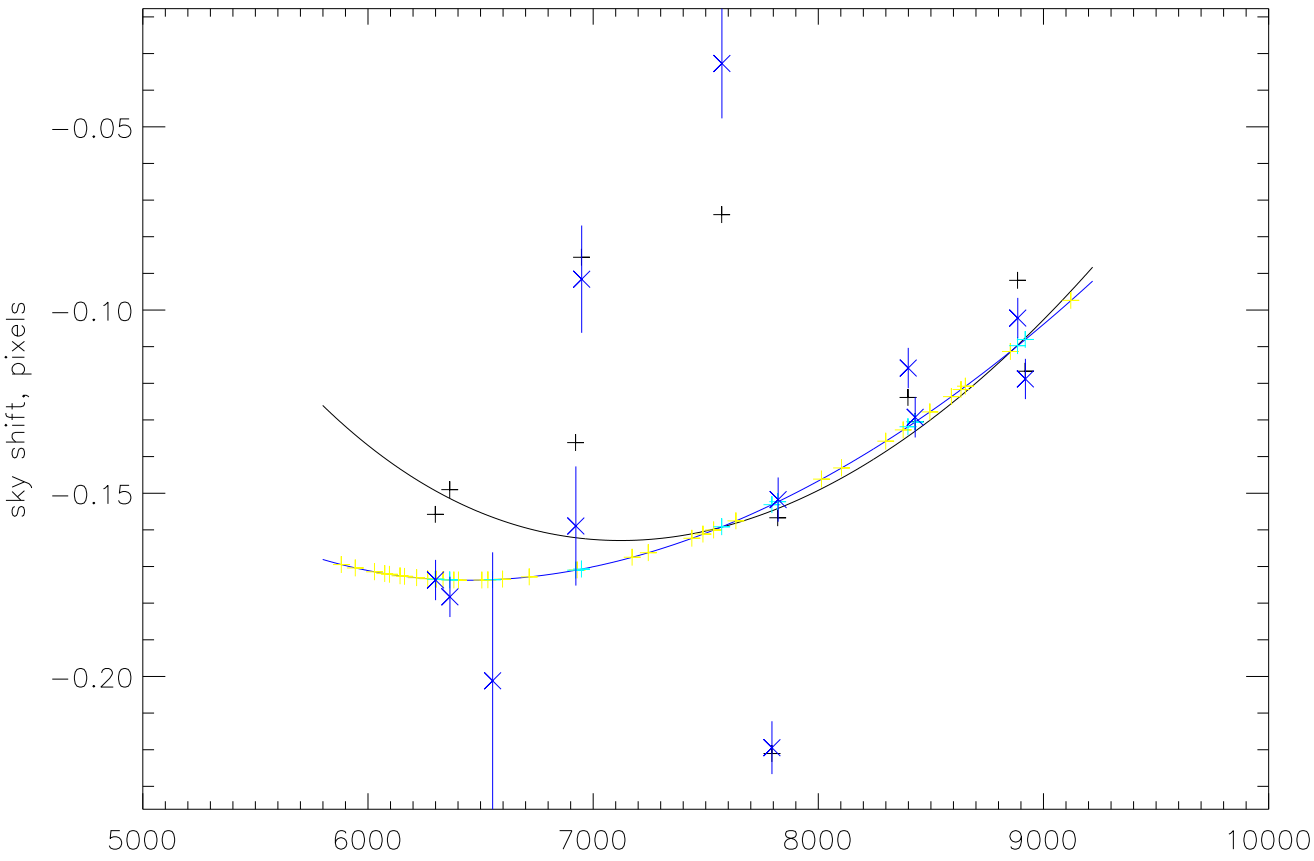

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

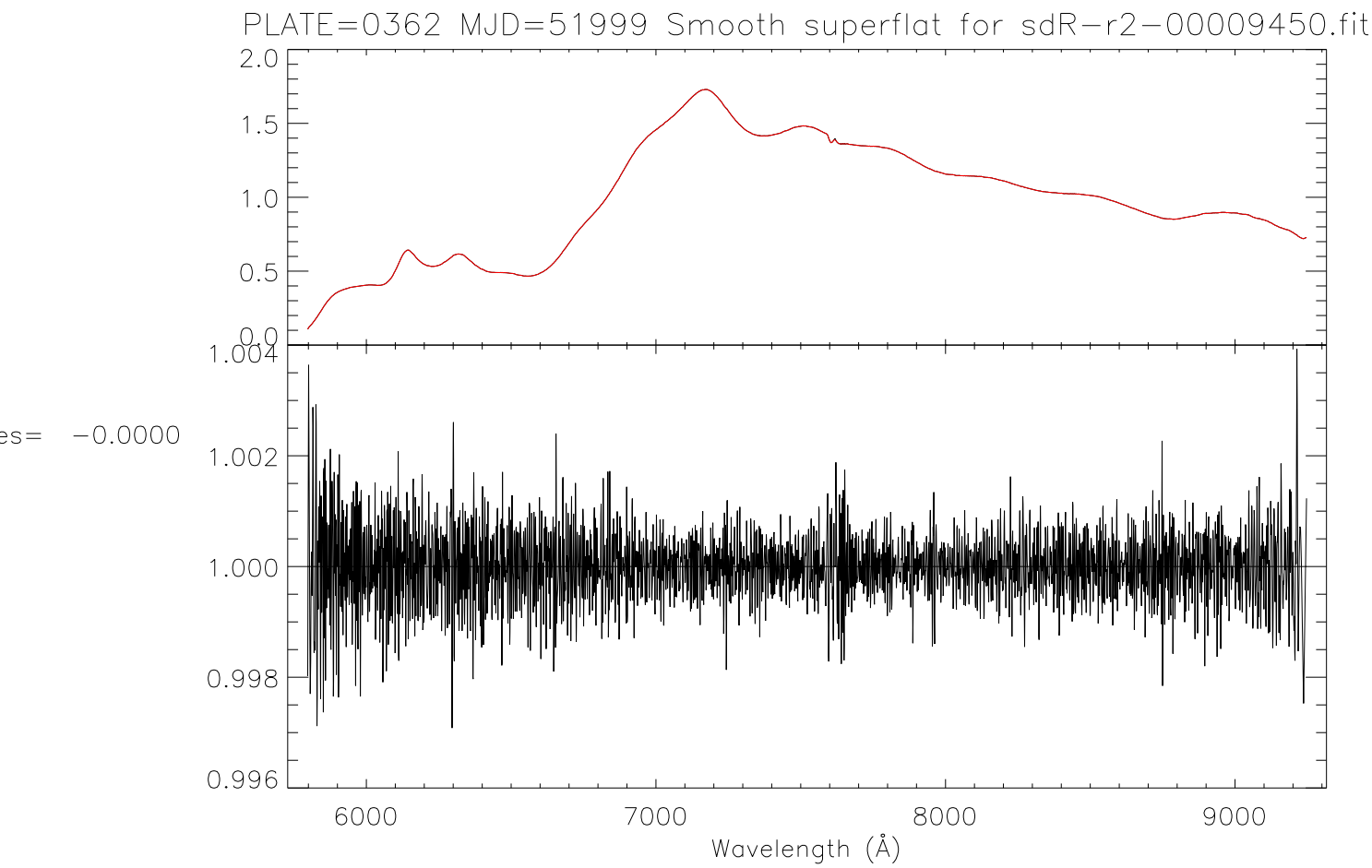

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

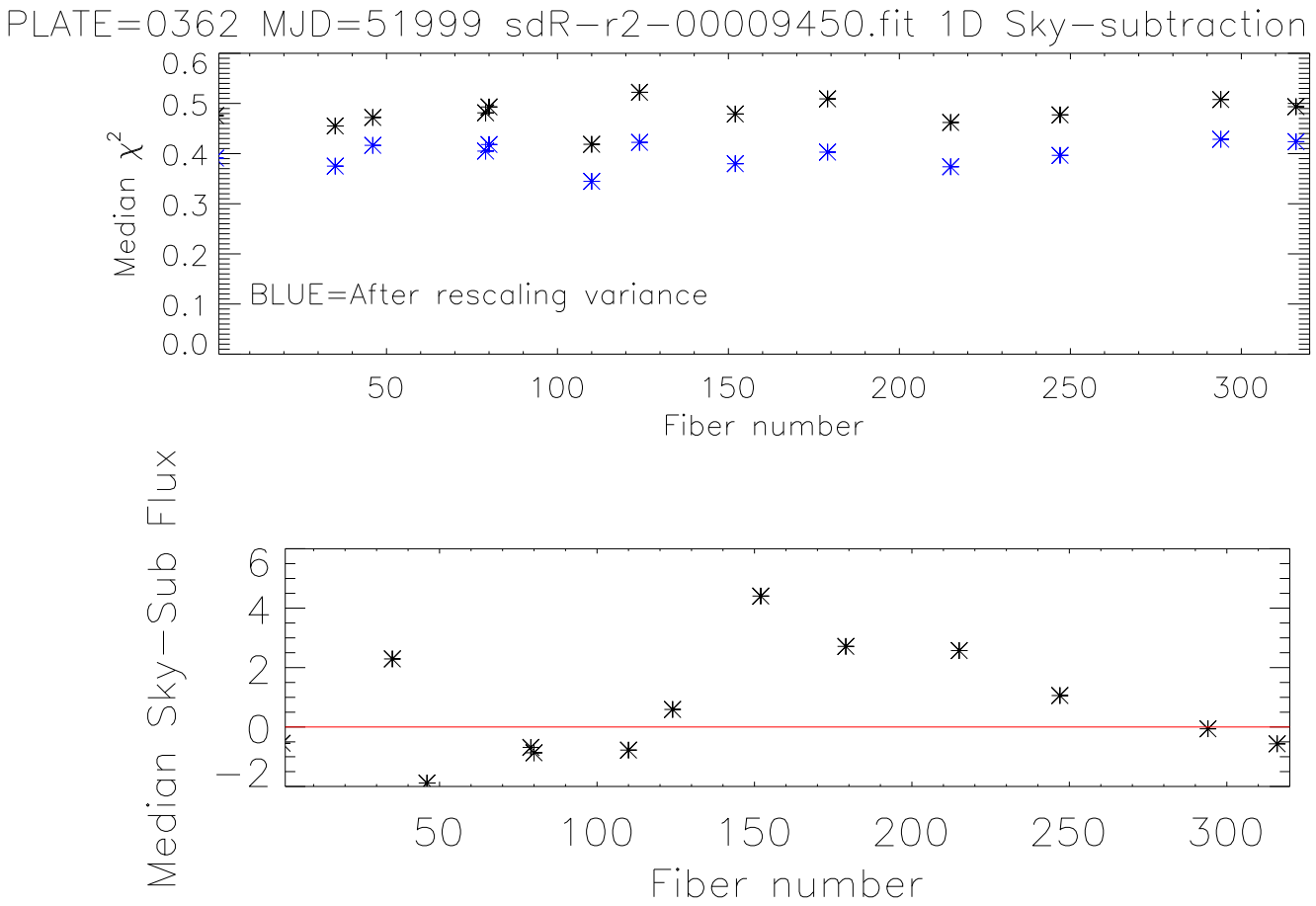

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

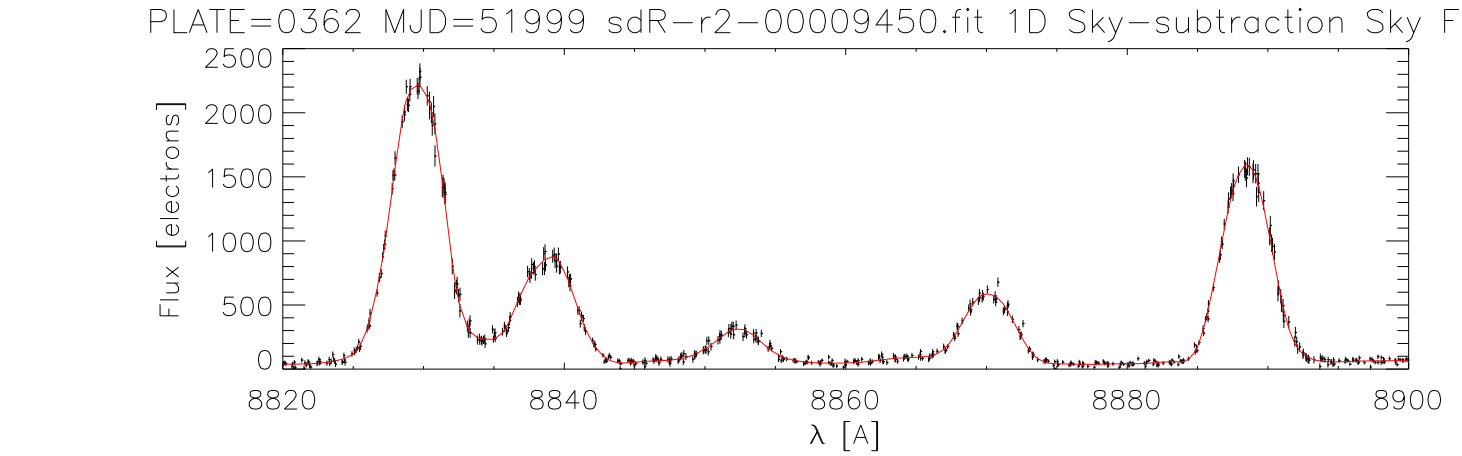

6300.3040
mfib1 17
mfib2 17
stdev 0.018
extra 0.17
6363.7760
mfib1 17
mfib2 17
stdev 0.011
extra 0.18
6553.6100
mfib1 17
mfib2 17
stdev 0.056
extra 0.20
6923.2100
mfib1 16
mfib2 17
stdev 0.043
extra 0.16
6949.0300
mfib1 17
mfib2 17
stdev 0.053
extra 0.09
7571.7500
mfib1 16
mfib2 17
stdev 0.040
extra 0.03
7794.1200
mfib1 17
mfib2 17
stdev 0.027
extra 0.22
7821.5100
mfib1 17
mfib2 17
stdev 0.024
extra 0.45
8399.1600
mfib1 17
mfib2 17
stdev 0.025
extra 0.42
8430.1700
mfib1 17
mfib2 17
stdev 0.026
extra 0.43
8885.8300
mfib1 16
mfib2 16
stdev 0.036
extra 0.10
8919.6100
mfib1 17
mfib2 17
stdev 0.030
extra 0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

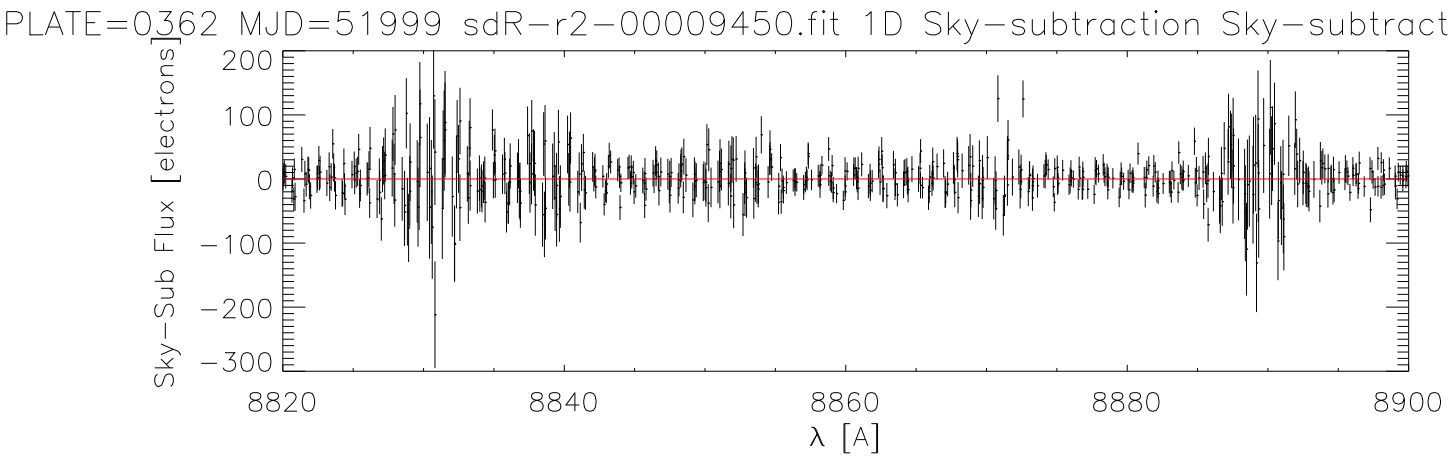

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
5000
6000
7000
8000
9000
10000

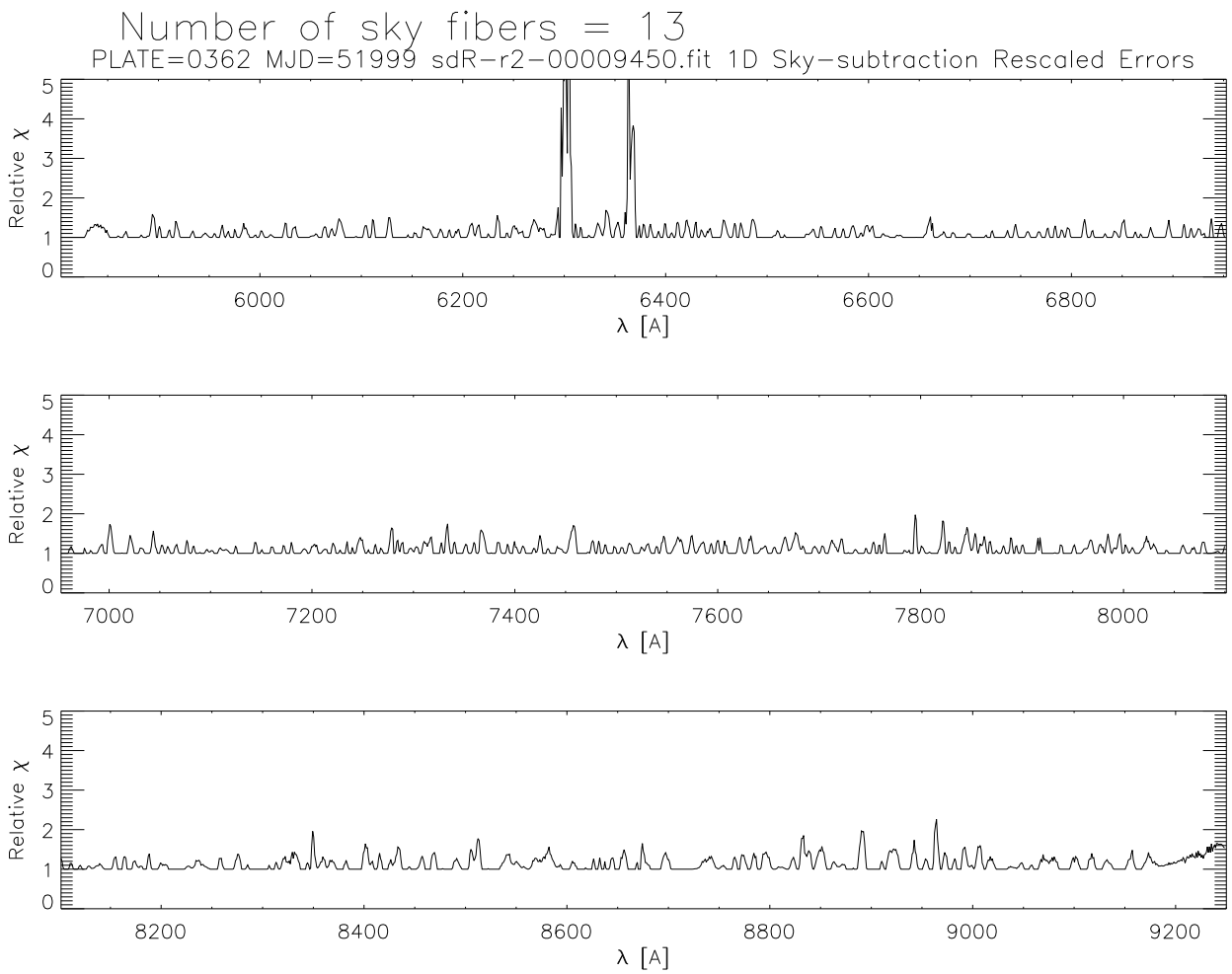

PLATE=0362 MJD=51999 Smooth superflat for sdR-r2-00009450.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
6000
7000
8000
9000
Wavelength (Å)

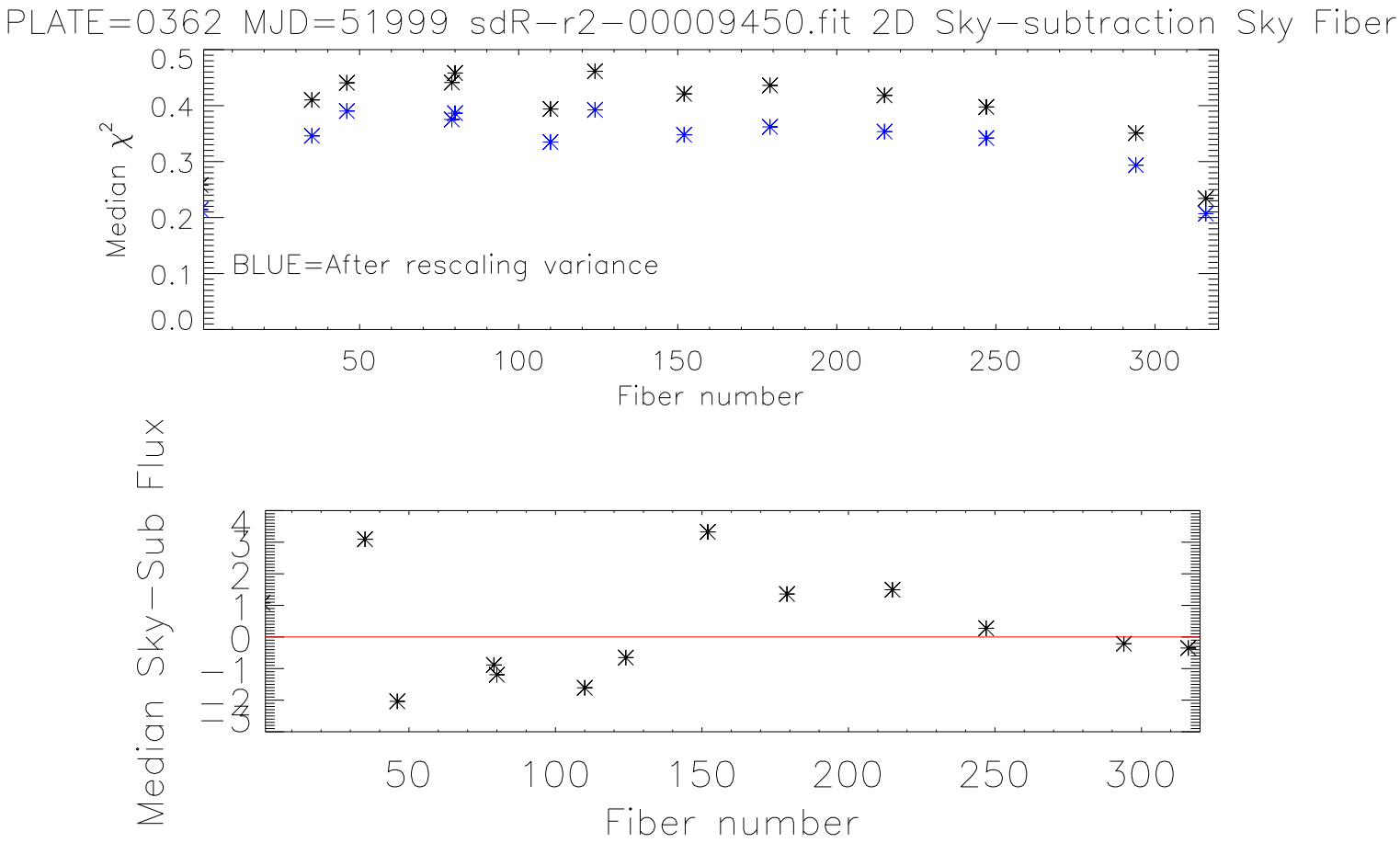
es= −0.0000

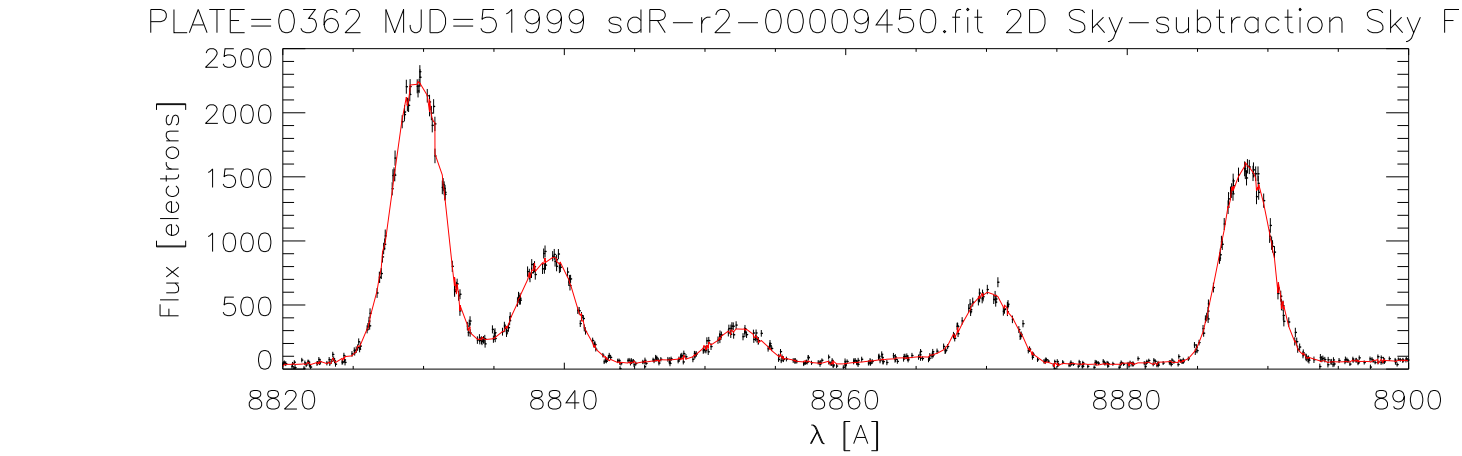

PLATE=0362 MJD=51999 sdR-r2-00009450.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

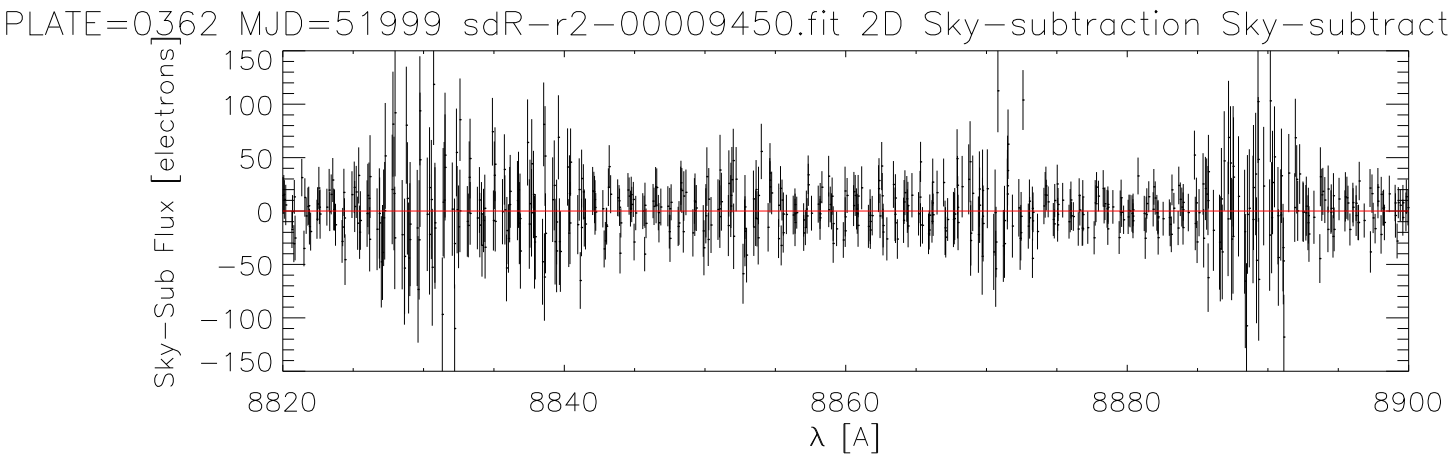

PLATE=0362 MJD=51999 sdR-r2-00009450.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

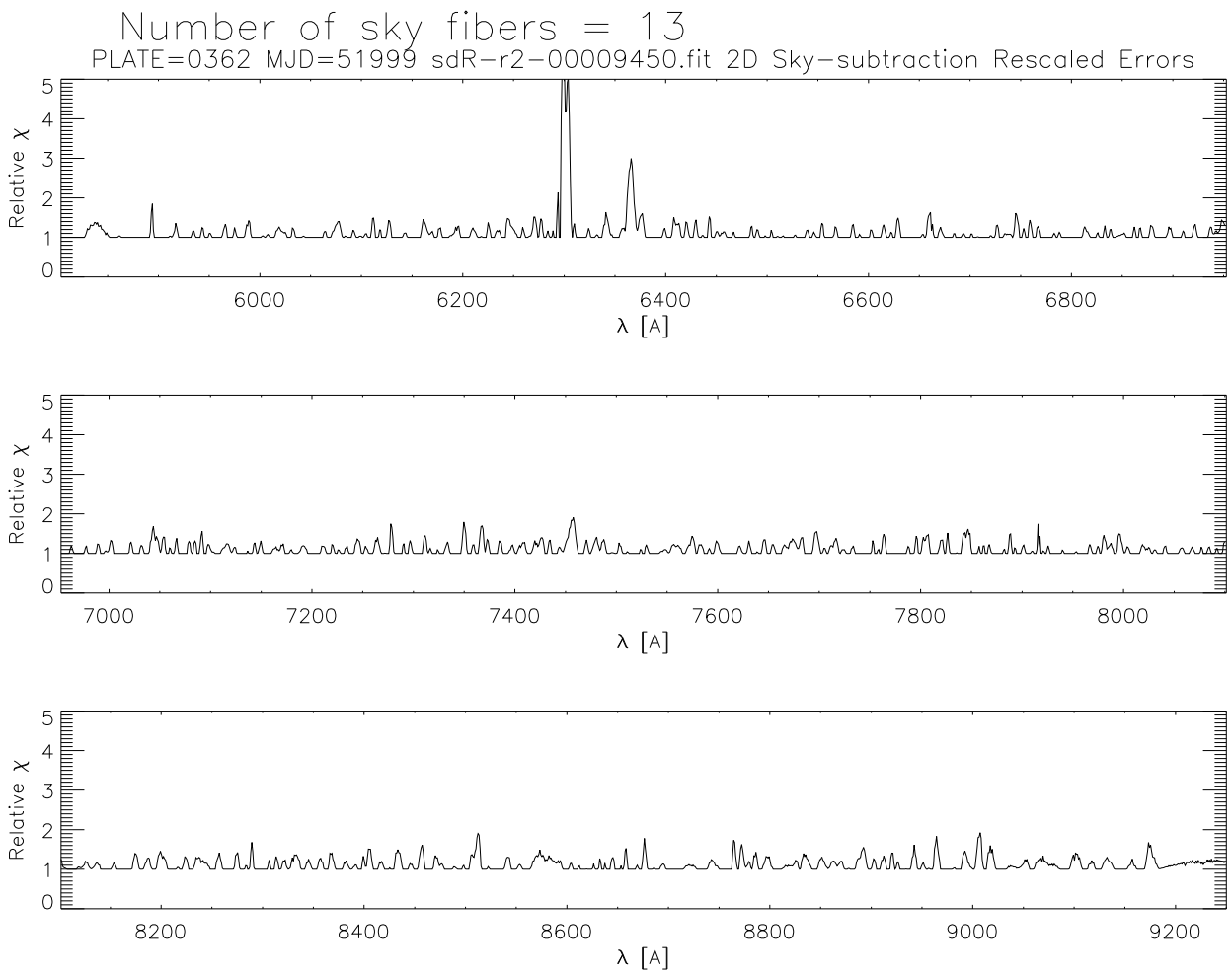

PLATE=0362 MJD=51999 sdR-r2-00009450.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

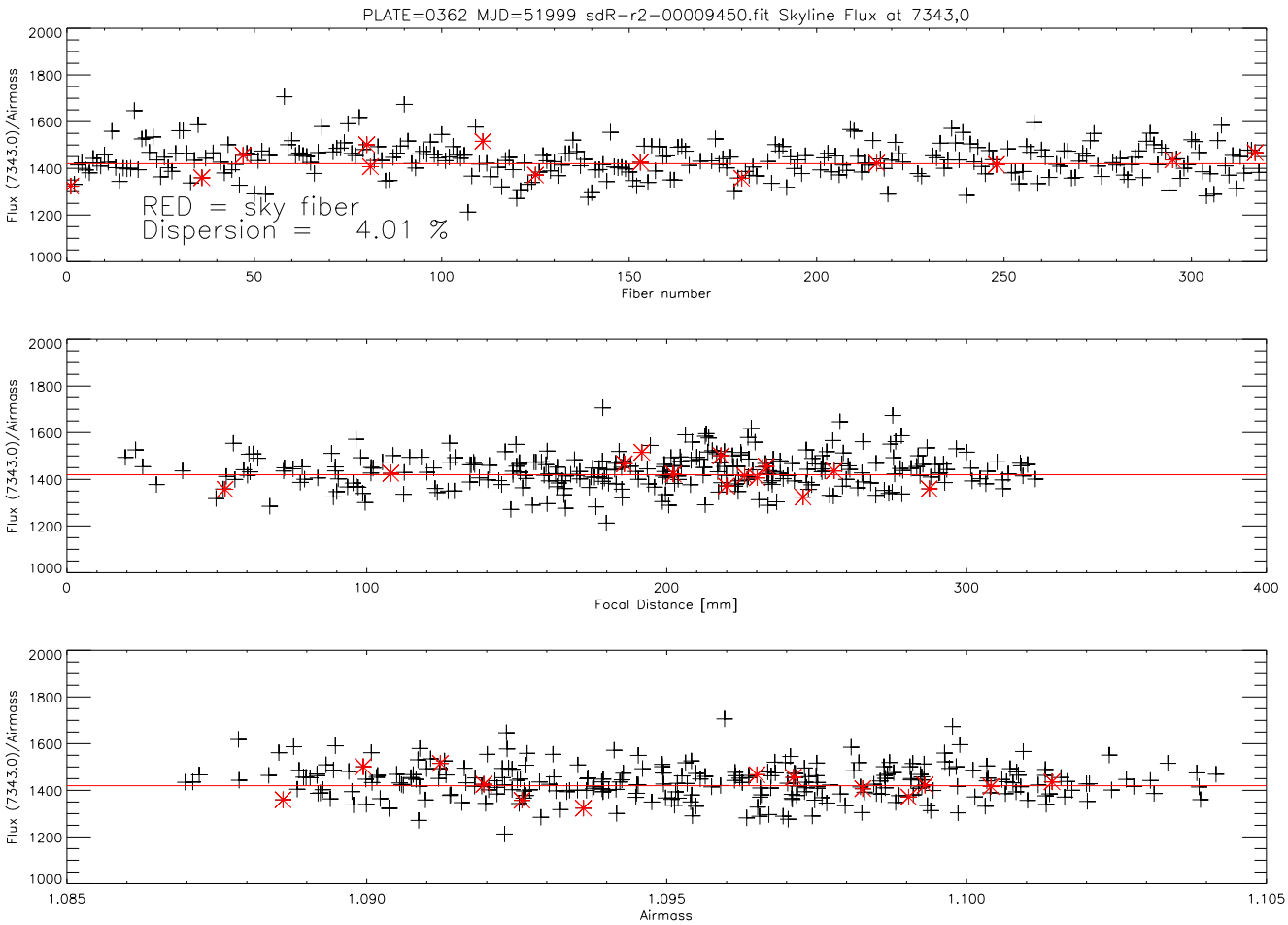

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r2-00009450.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

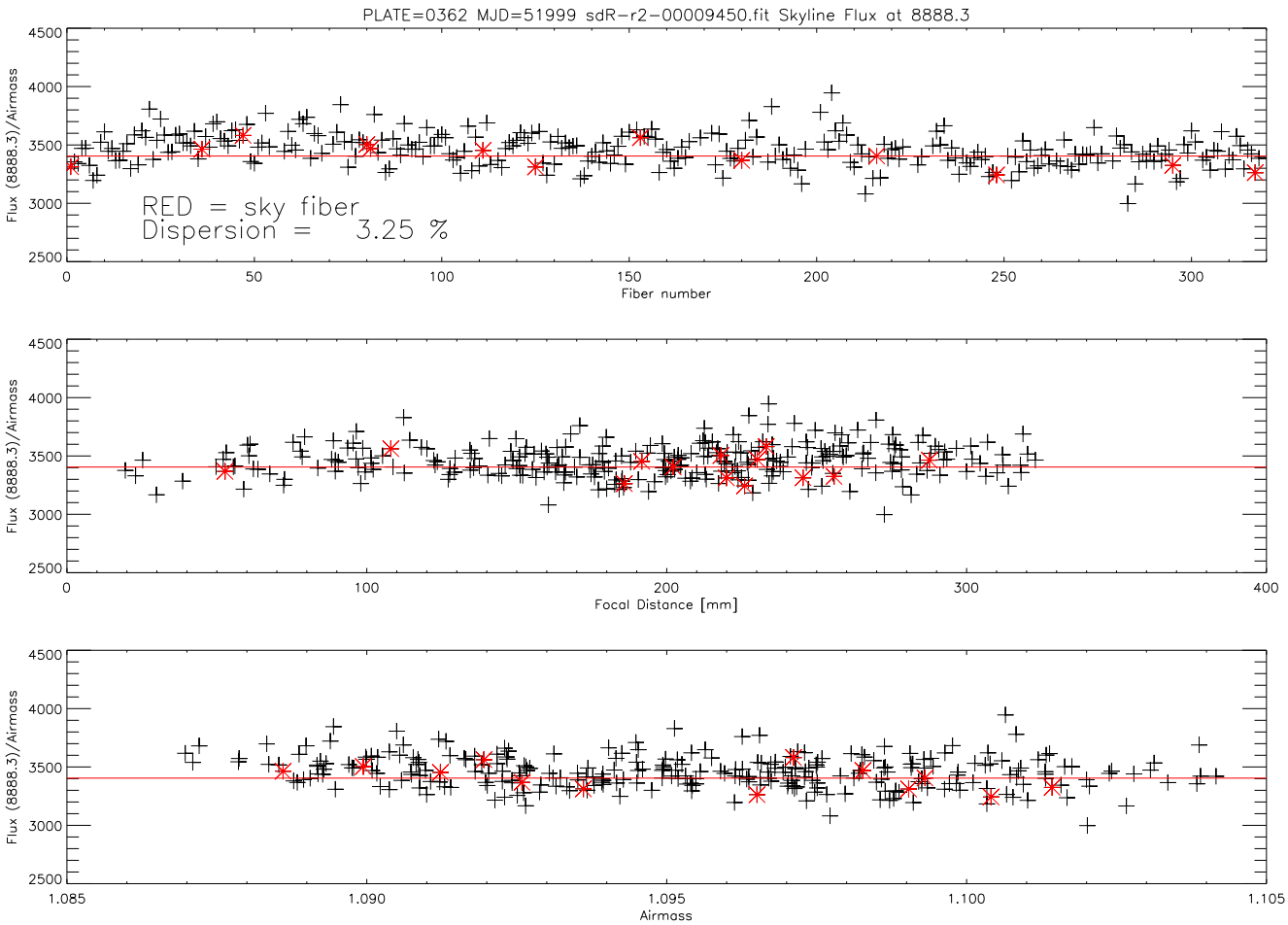

PLATE=0362 MJD=51999 sdR-r2-00009450.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

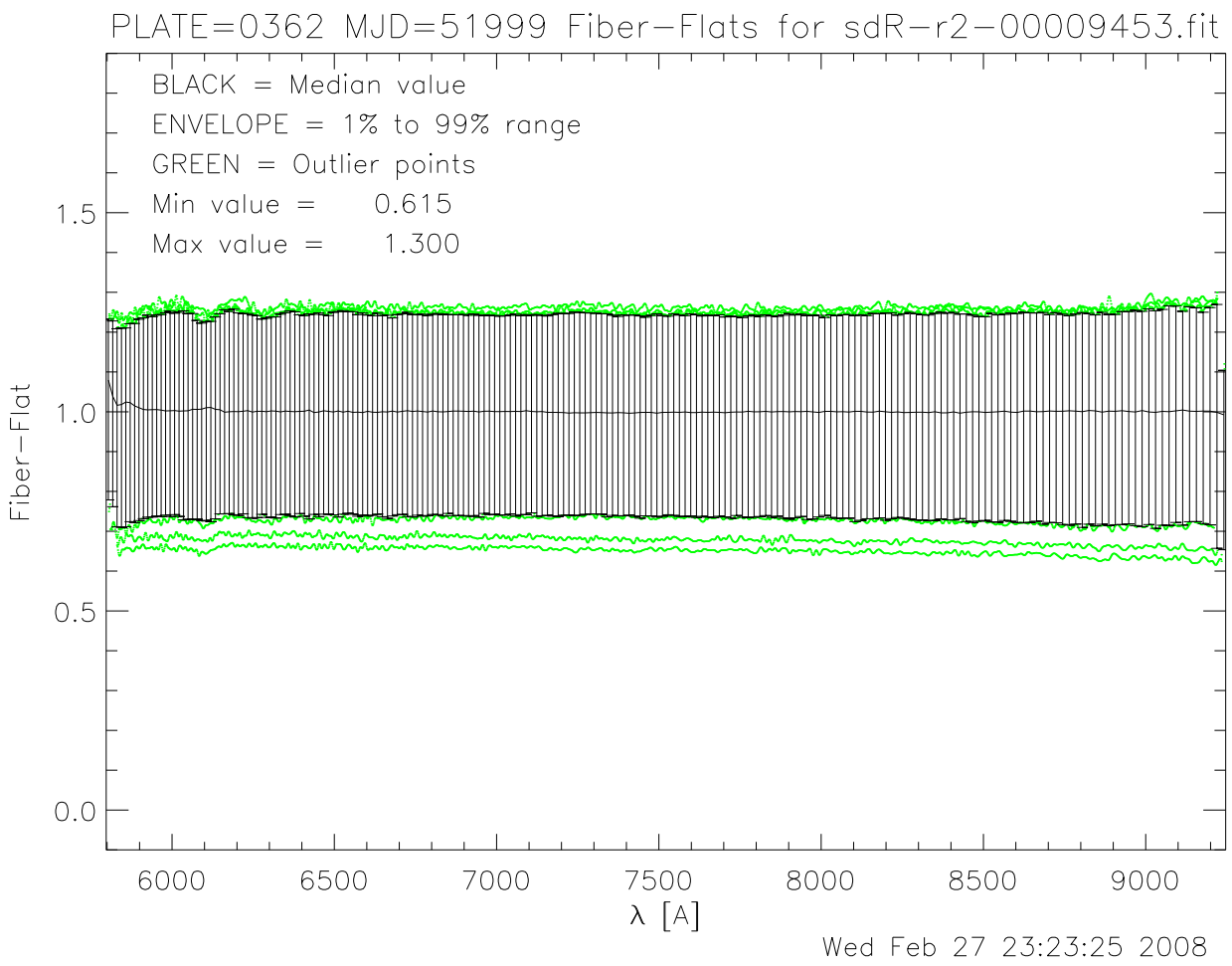

PLATE=0362 MJD=51999 sdR-r2-00009450.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

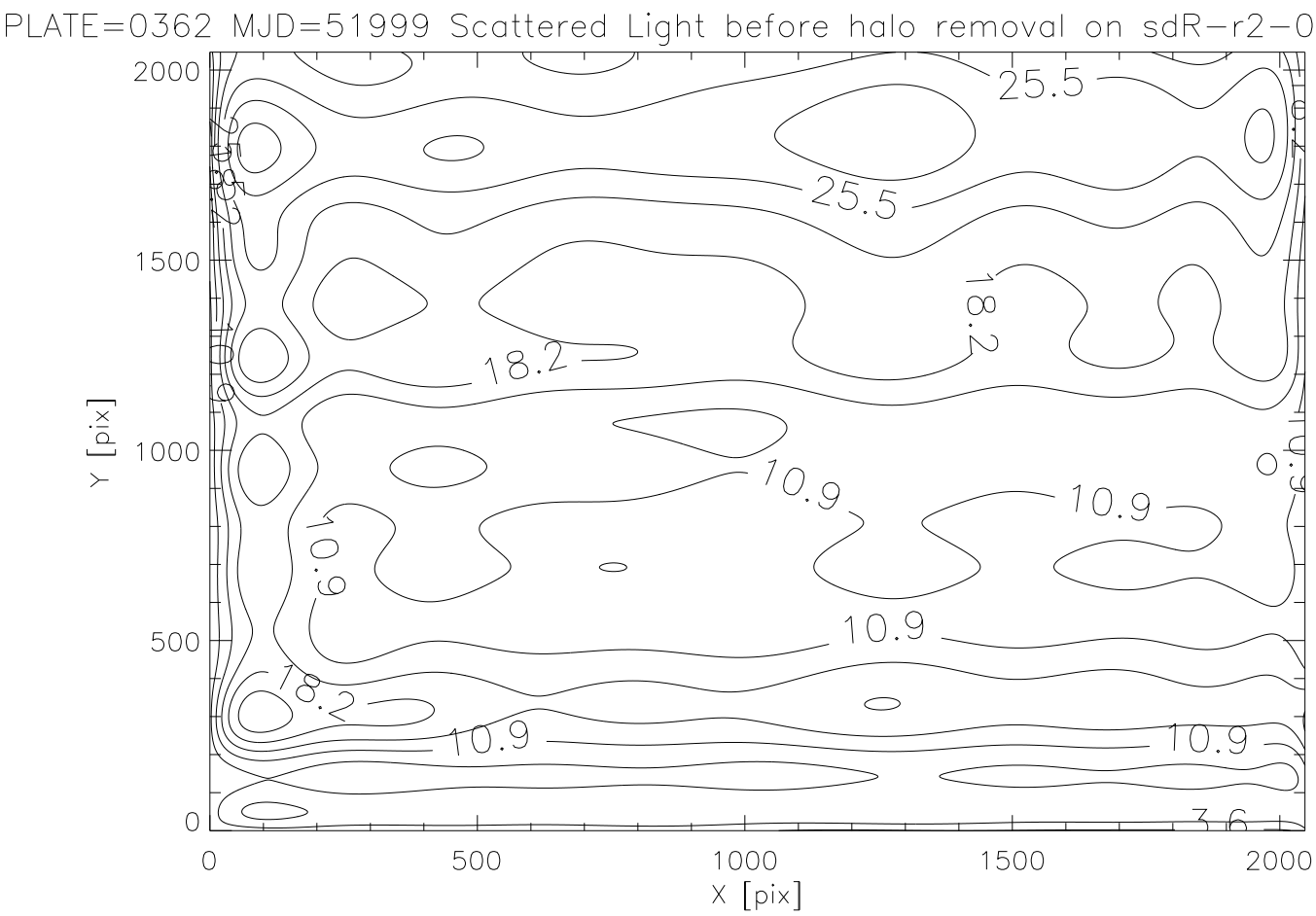

PLATE=0362 MJD=51999 sdR-r2-00009450.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

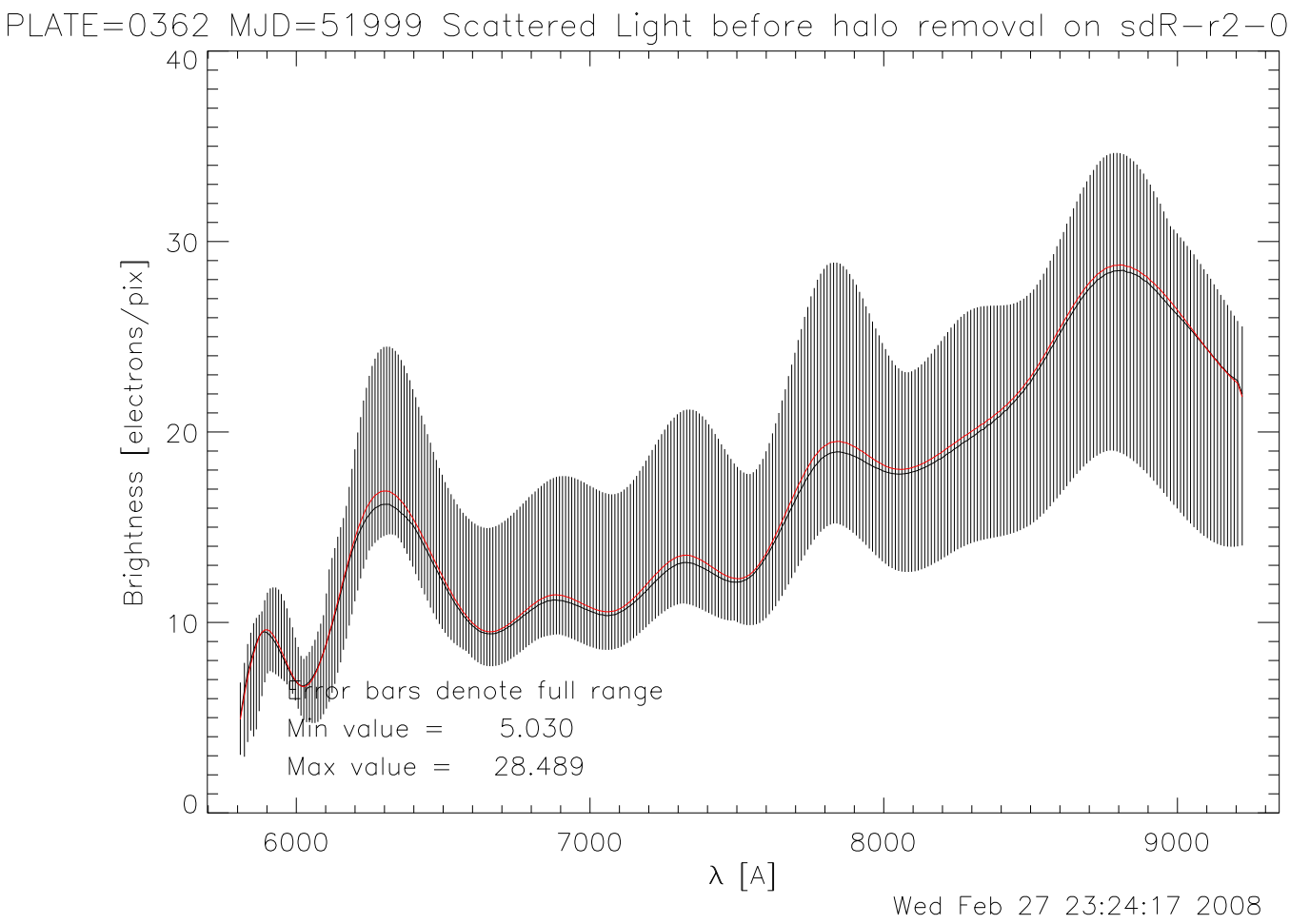

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r2-00009450.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

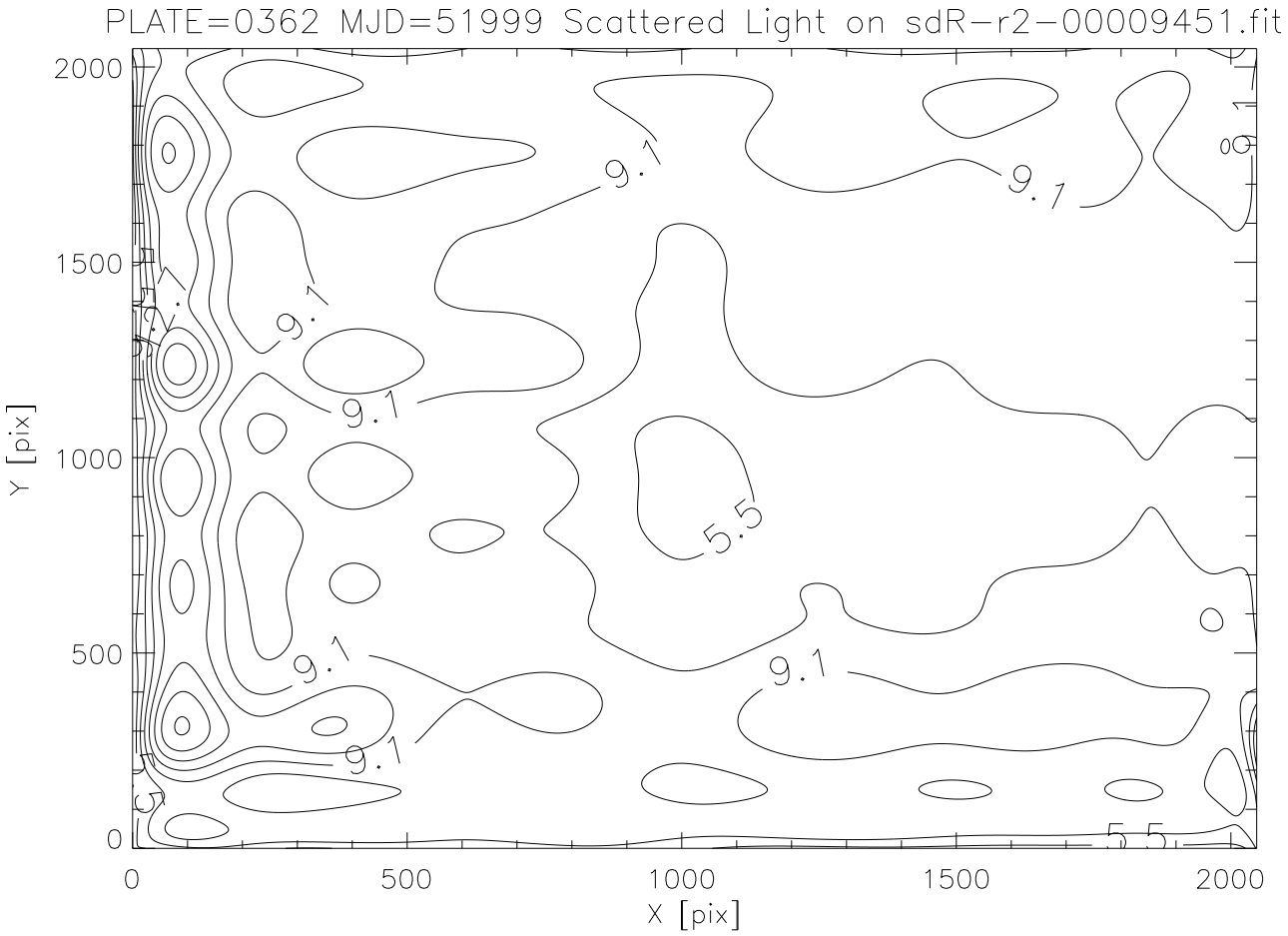

PLATE=0362 MJD=51999 sdR-r2-00009450.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.01 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

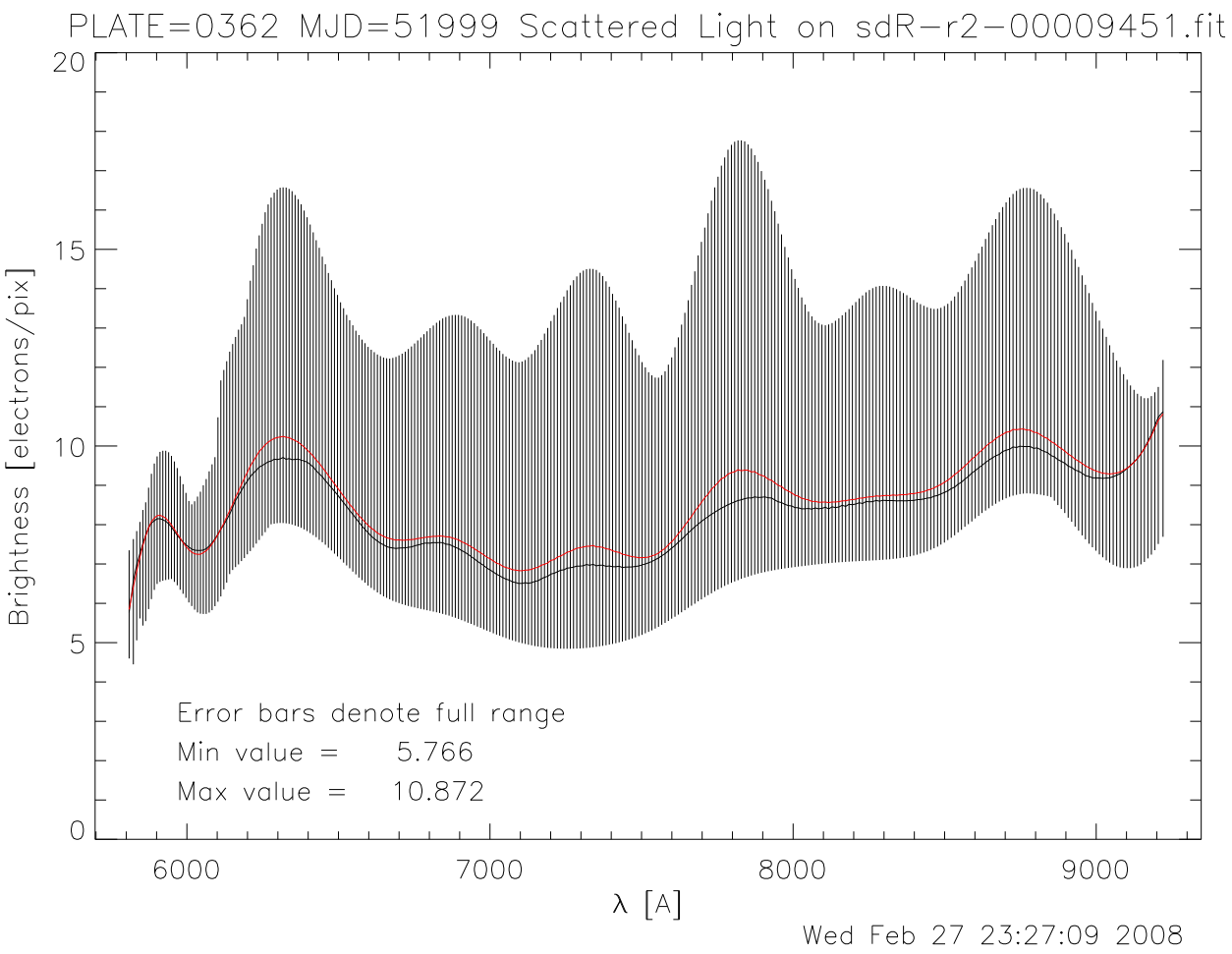

PLATE=0362 MJD=51999 sdR-r2-00009450.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.25 %
Fiber number
Focal Distance [mm]
Airmass

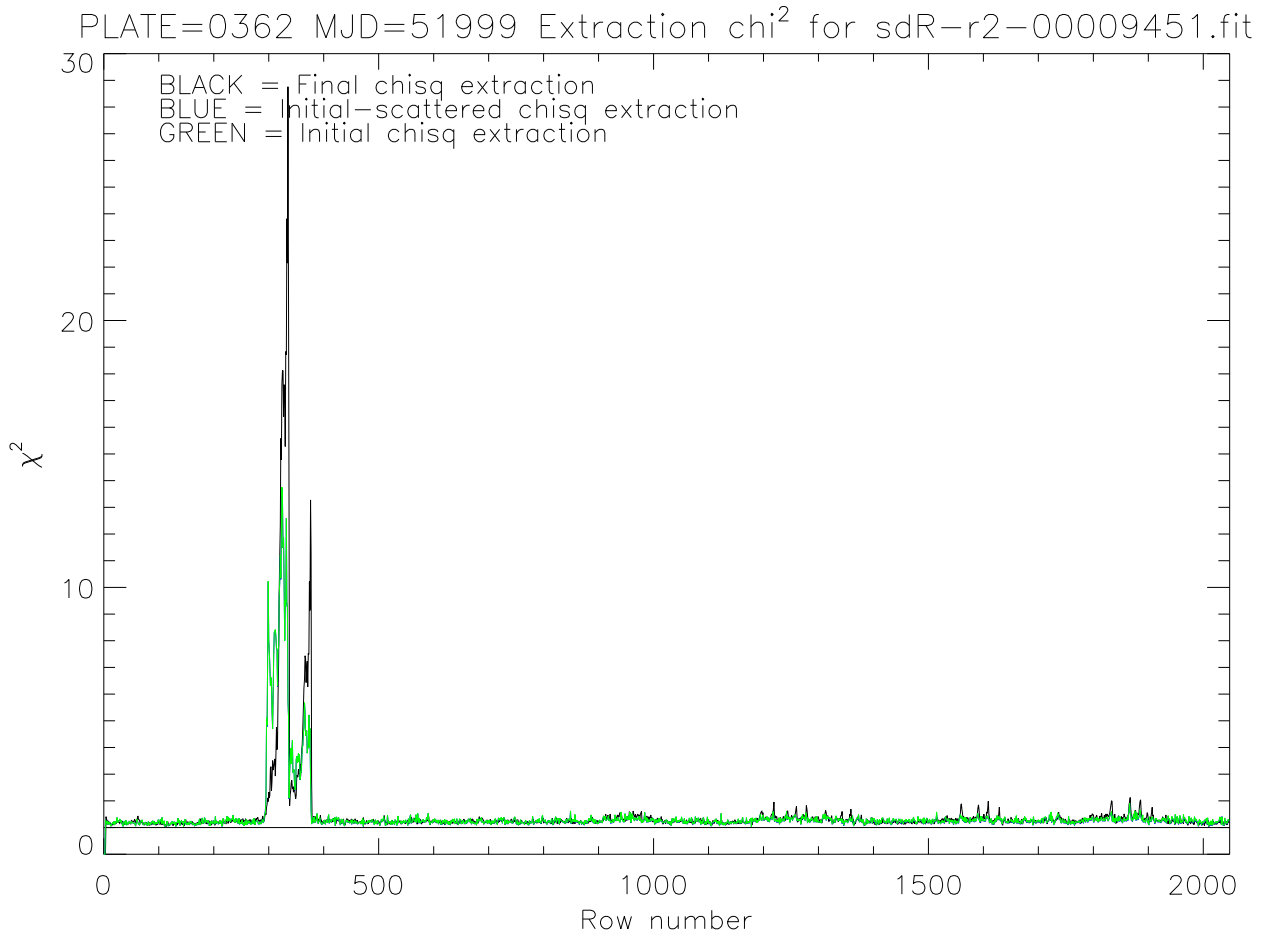

PLATE=0362 MJD=51999 Fiber-Flats for sdR-r2-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.615
Max value = 1.300
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 23:23:25 2008

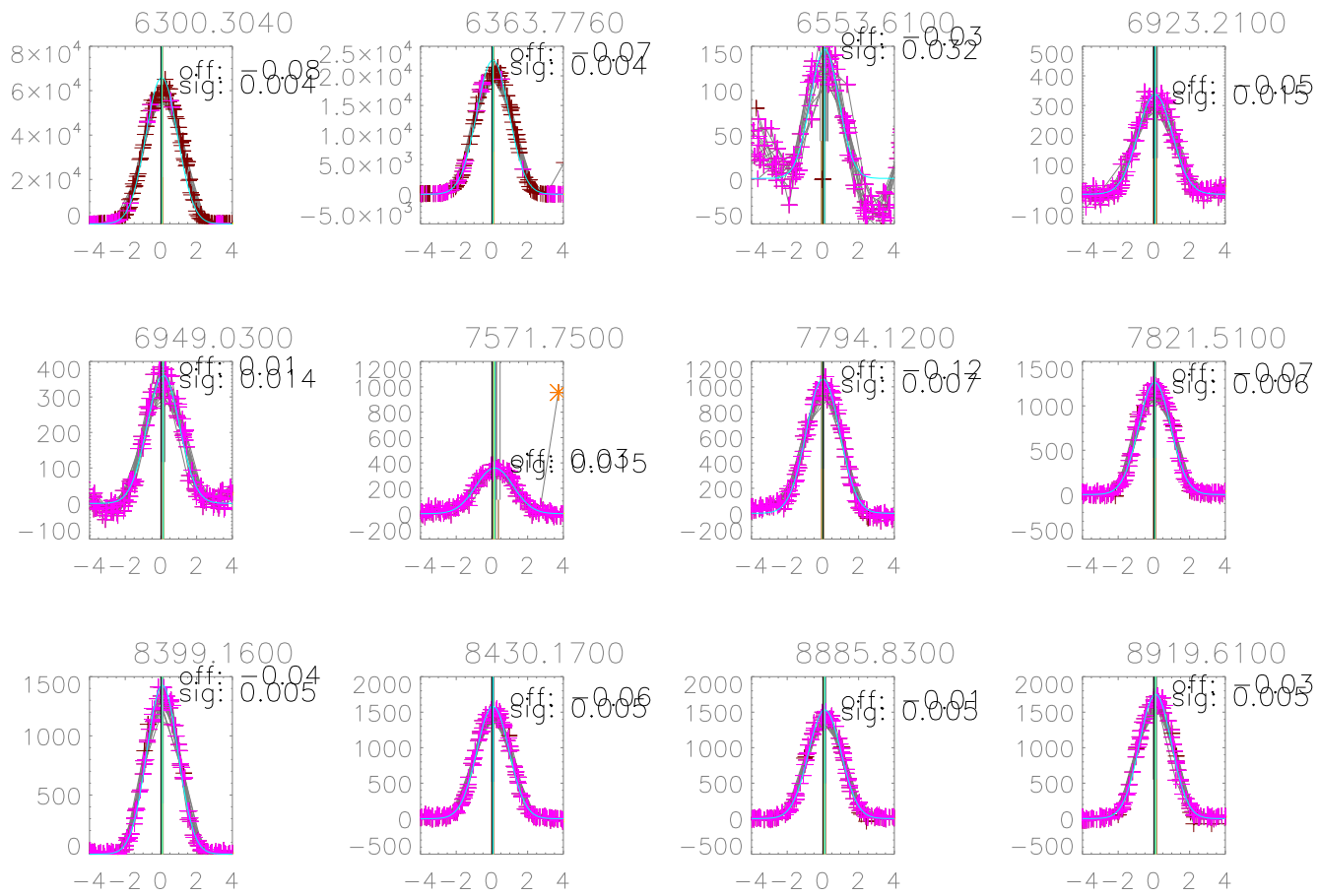

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r2-00009451.fi
25.5
25.5
18.2
18.2
10.9
10.9
10.9
10.9
10.9
10.9
3.6
Y [pix]
X [pix]
0
500
1000
1500
2000

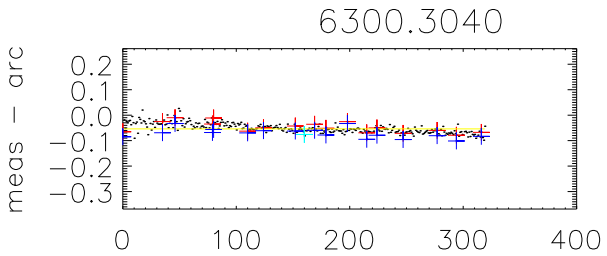

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r2-00009451.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.030
Max value = 28.489
Wed Feb 27 23:24:17 2008

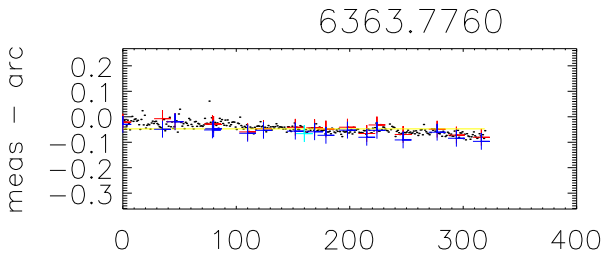

PLATE=0362 MJD=51999 Scattered Light on sdR-r2-00009451.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
5.5

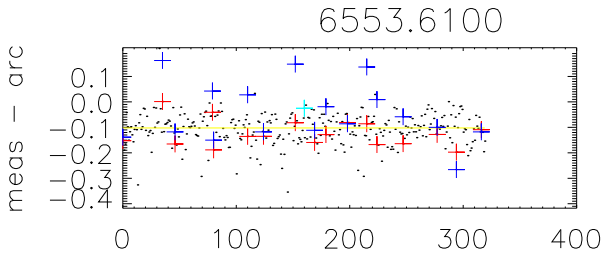

PLATE=0362 MJD=51999 Scattered Light on sdR-r2-00009451.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.766
Max value = 10.872
Wed Feb 27 23:27:09 2008

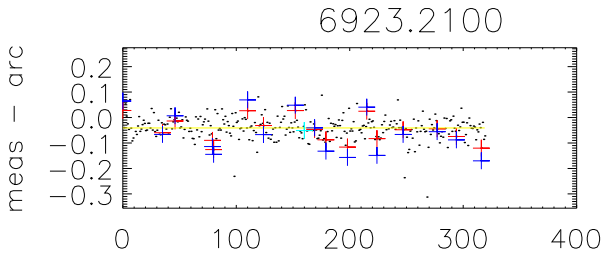

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-r2-00009451.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
30
20
10
0
0
500
1000
1500
2000
Row number

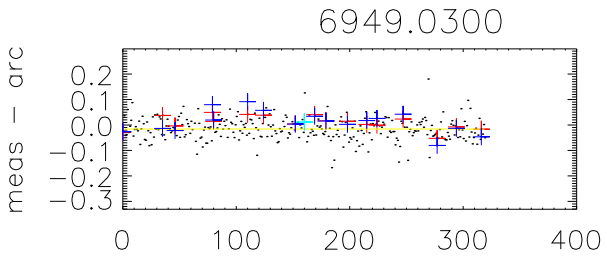

6300.3040
off: −0.08
sig: 0.004
6363.7760
off: −0.07
sig: 0.004
6553.6100
off: −0.03
sig: 0.032
6923.2100
off: −0.05
sig: 0.015
6949.0300
off: 0.01
sig: 0.014
7571.7500
off: 0.03
sig: 0.045
7794.1200
off: −0.12
sig: 0.007
7821.5100
off: −0.07
sig: 0.006
8399.1600
off: −0.04
sig: 0.005
8430.1700
off: −0.06
sig: 0.005
8885.8300
off: −0.01
sig: 0.005
8919.6100
off: −0.03
sig: 0.005

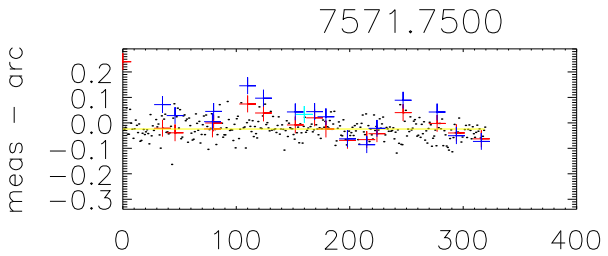

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

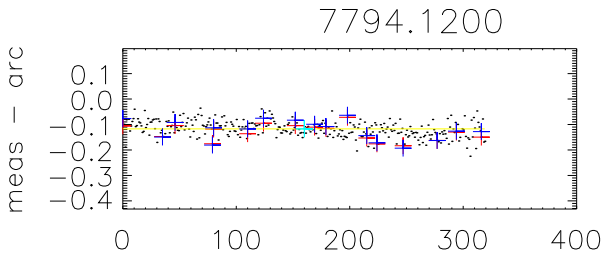

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

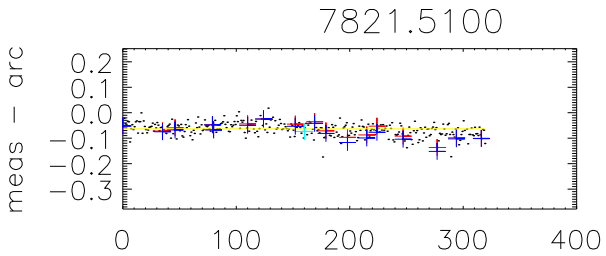

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

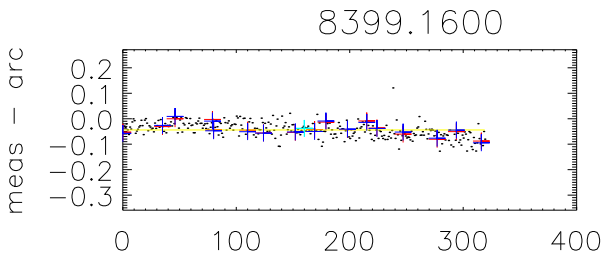

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

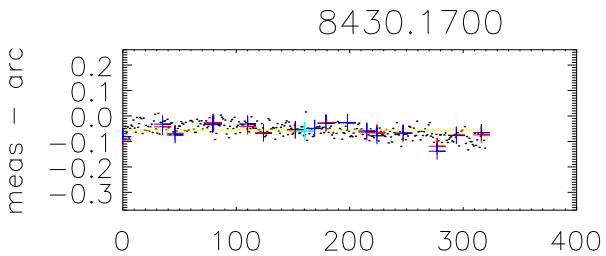

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

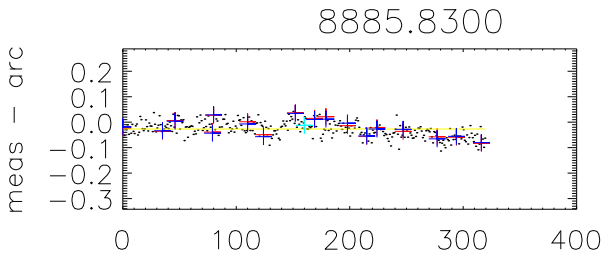

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

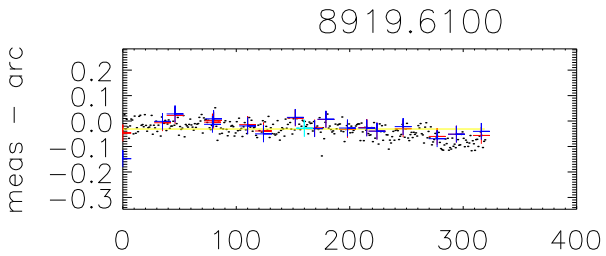

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

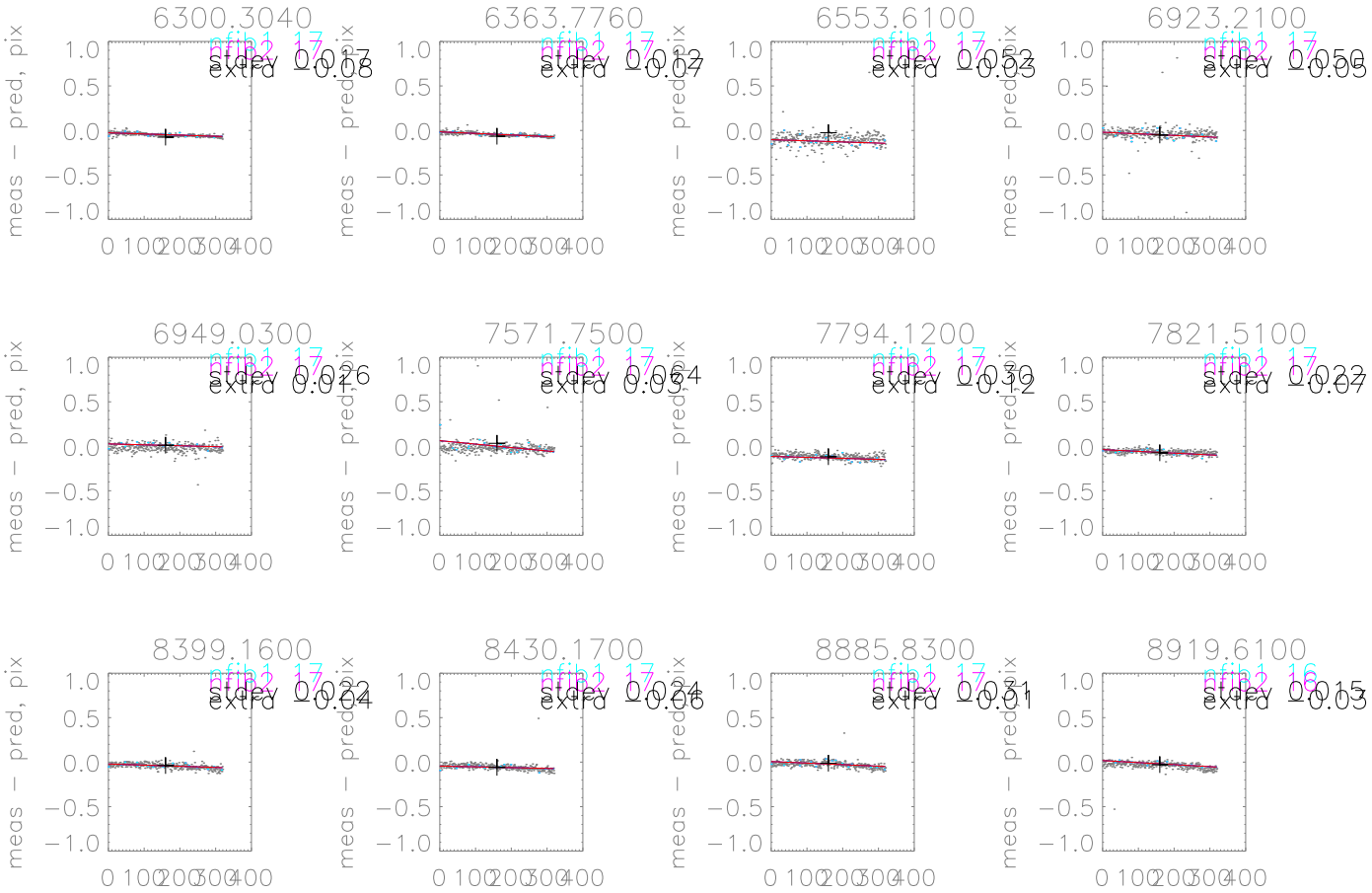

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

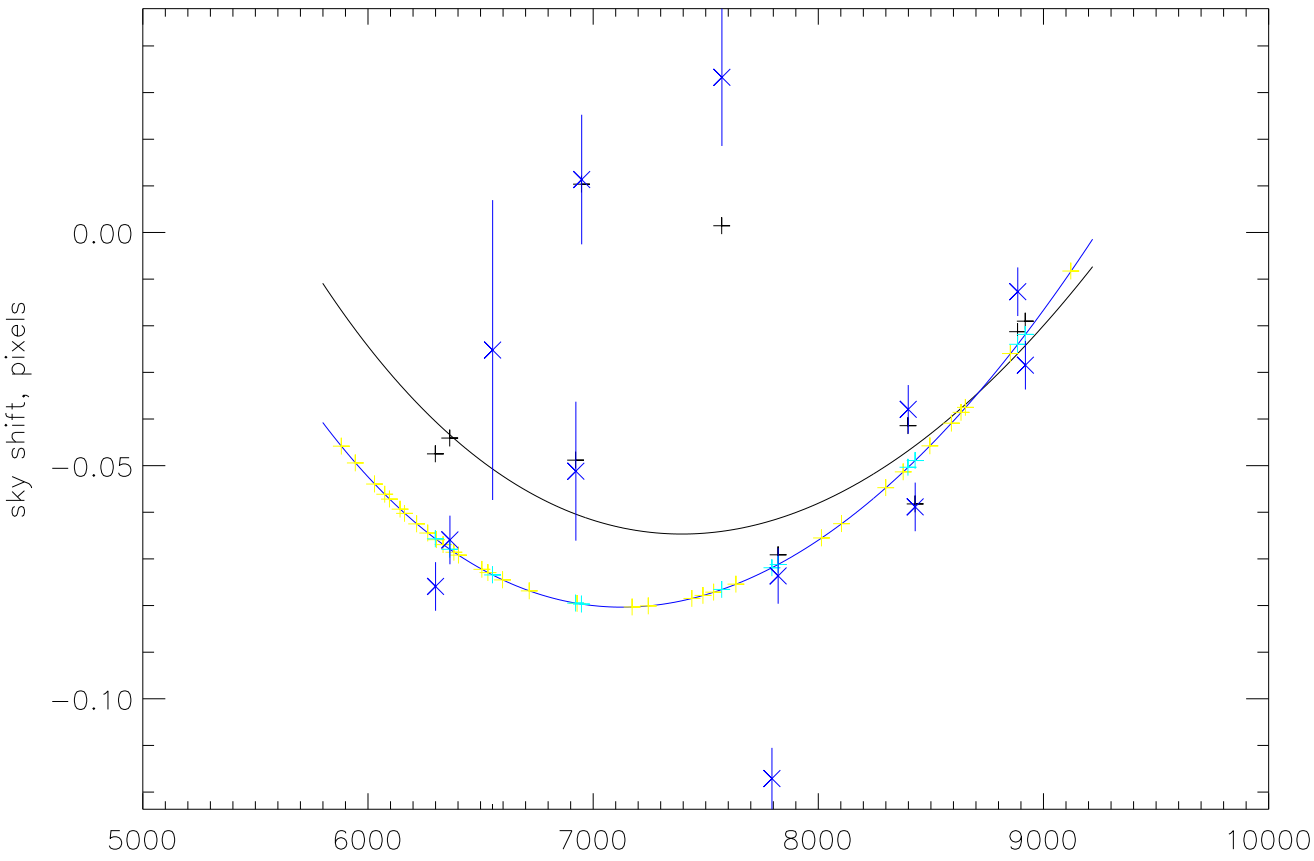

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

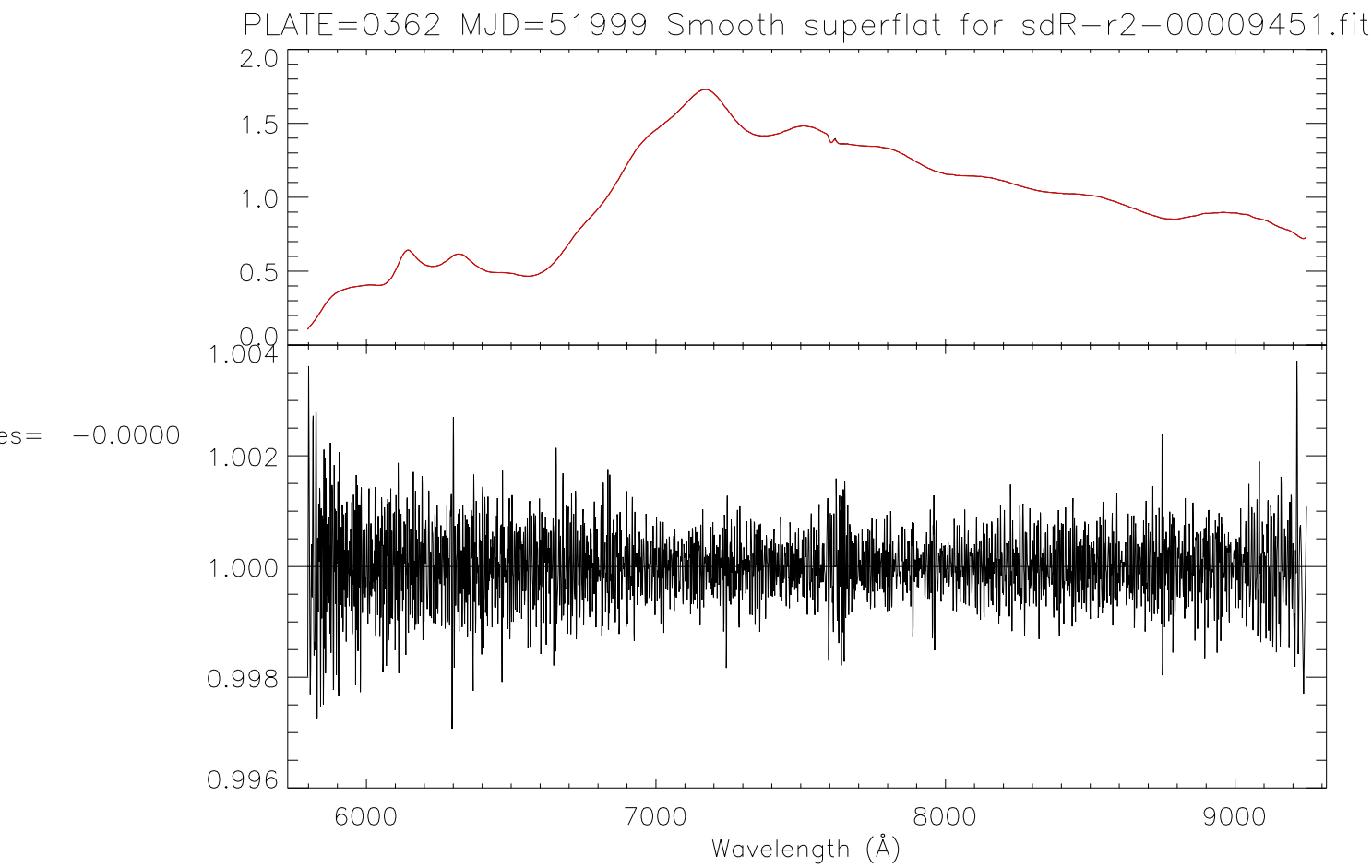

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

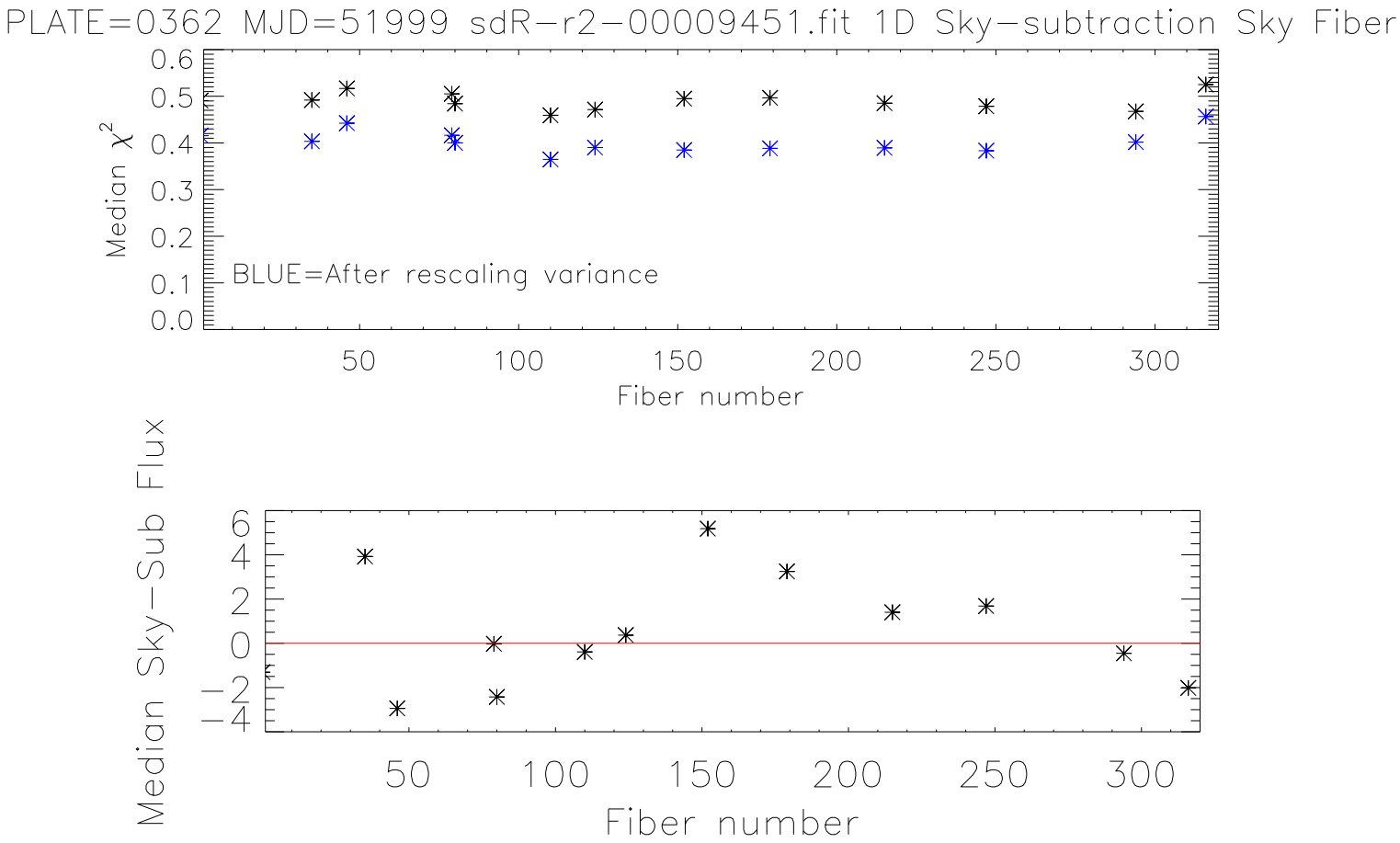

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

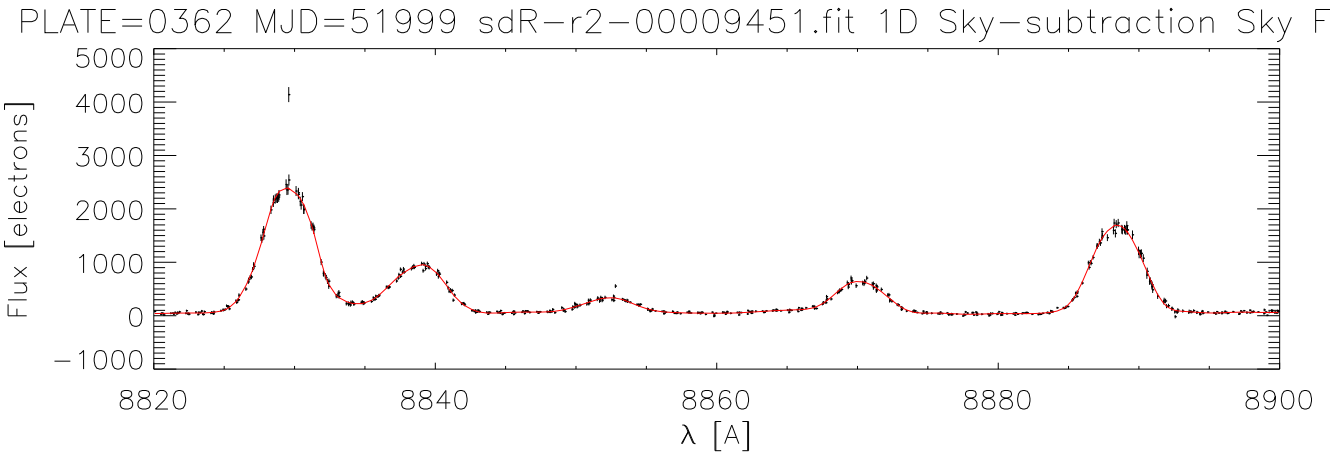

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

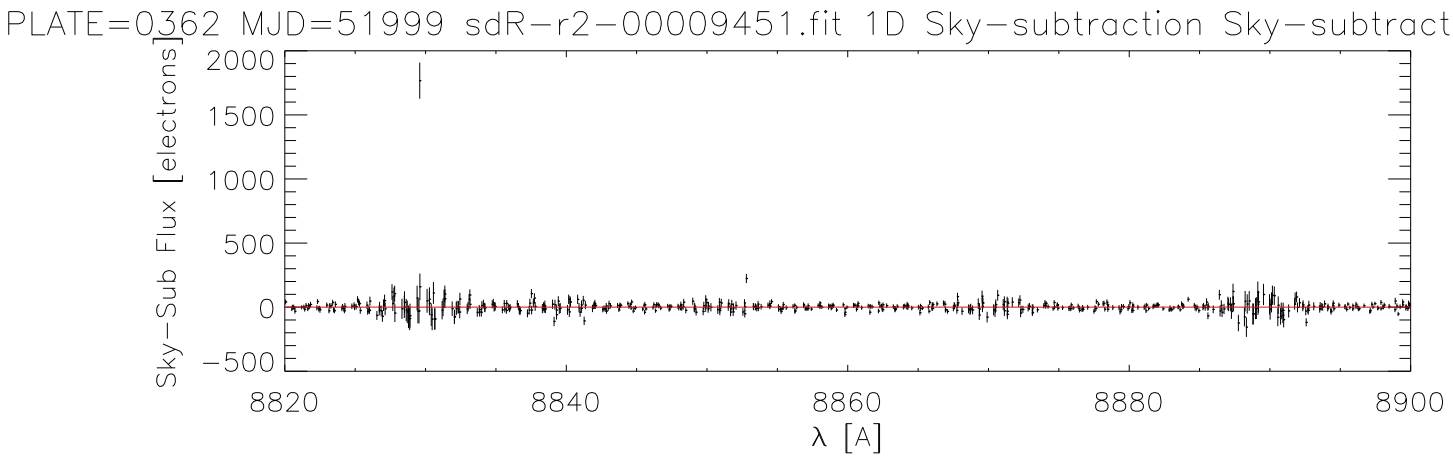

6300.3040
mfib1 17
mfib2 17
stdev 0.017
extra 0.08
6363.7760
mfib1 17
mfib2 17
stdev 0.012
extra 0.07
6553.6100
mfib1 17
mfib2 17
stdev 0.052
extra 0.03
6923.2100
mfib1 17
mfib2 17
stdev 0.050
extra 0.05
6949.0300
mfib1 17
mfib2 17
stdev 0.026
extra 0.01
7571.7500
mfib1 17
mfib2 17
stdev 0.064
extra 0.03
7794.1200
mfib1 17
mfib2 17
stdev 0.30
extra 0.12
7821.5100
mfib1 17
mfib2 17
stdev 0.022
extra 0.07
8399.1600
mfib1 17
mfib2 17
stdev 0.022
extra 0.04
8430.1700
mfib1 17
mfib2 17
stdev 0.024
extra 0.06
8885.8300
mfib1 17
mfib2 17
stdev 0.031
extra 0.01
8919.6100
mfib1 16
mfib2 16
stdev 0.015
extra 0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

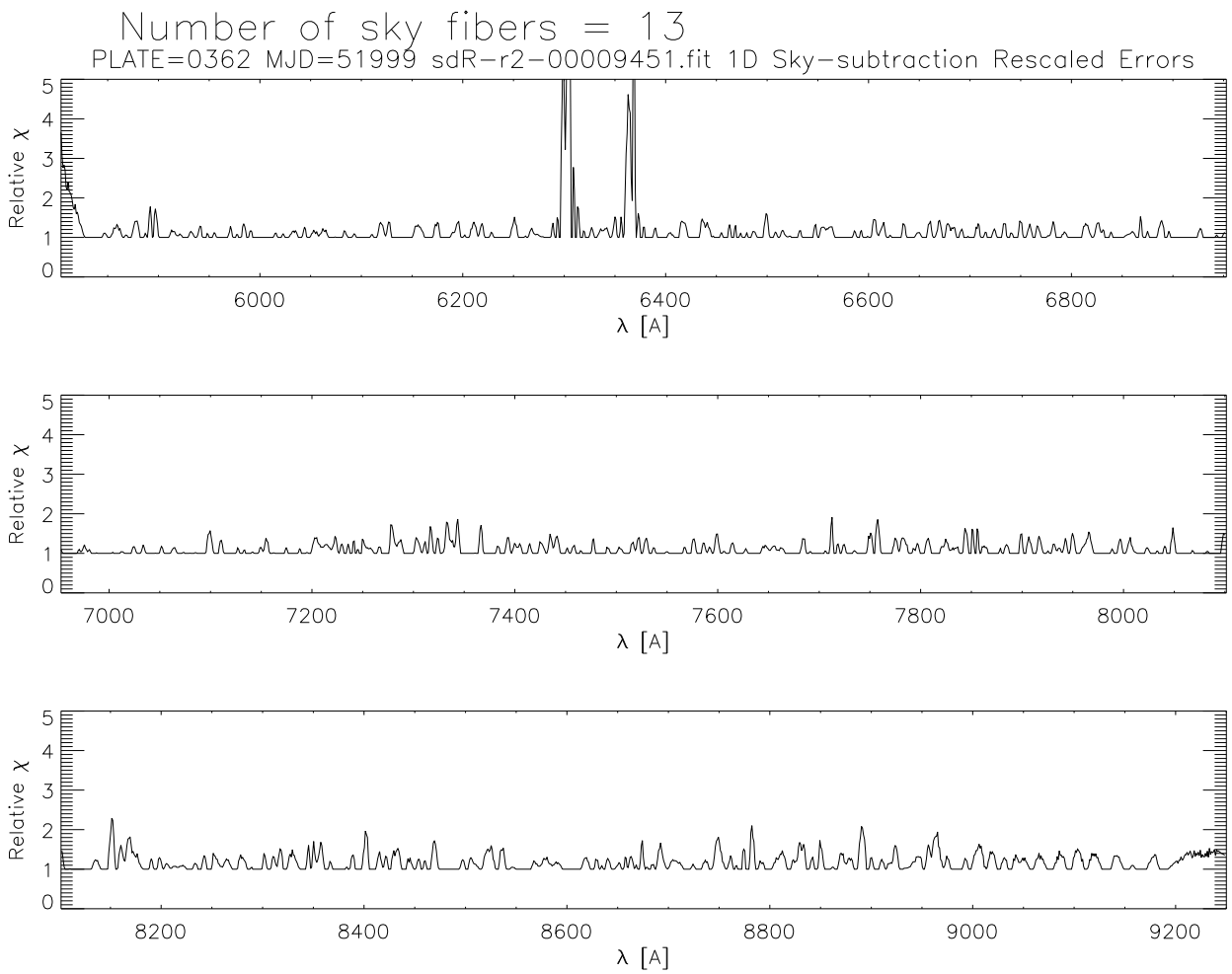

sky shift, pixels
0.00
−0.05
−0.10
5000
6000
7000
8000
9000
10000

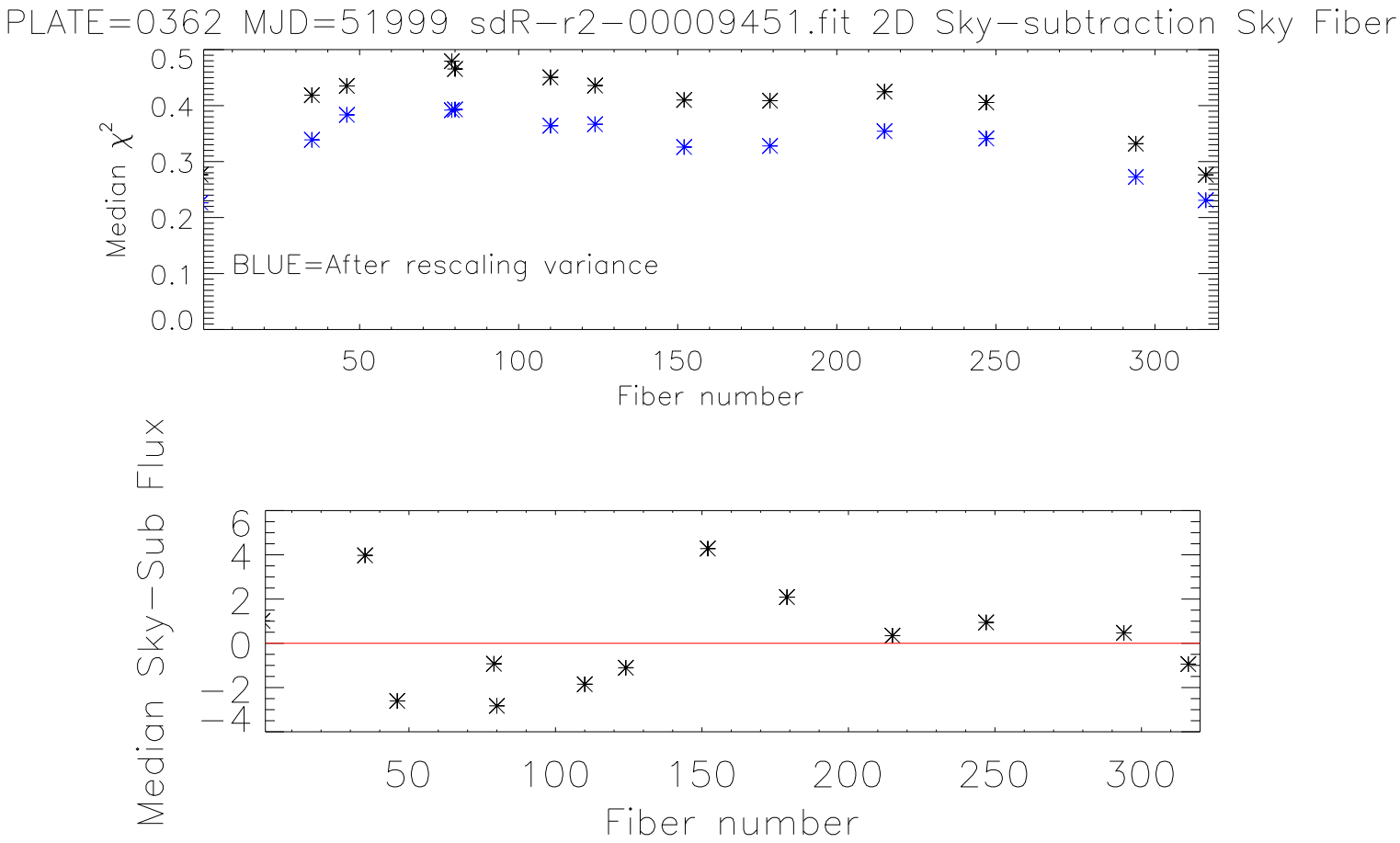

PLATE=0362 MJD=51999 Smooth superflat for sdR-r2-00009451.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

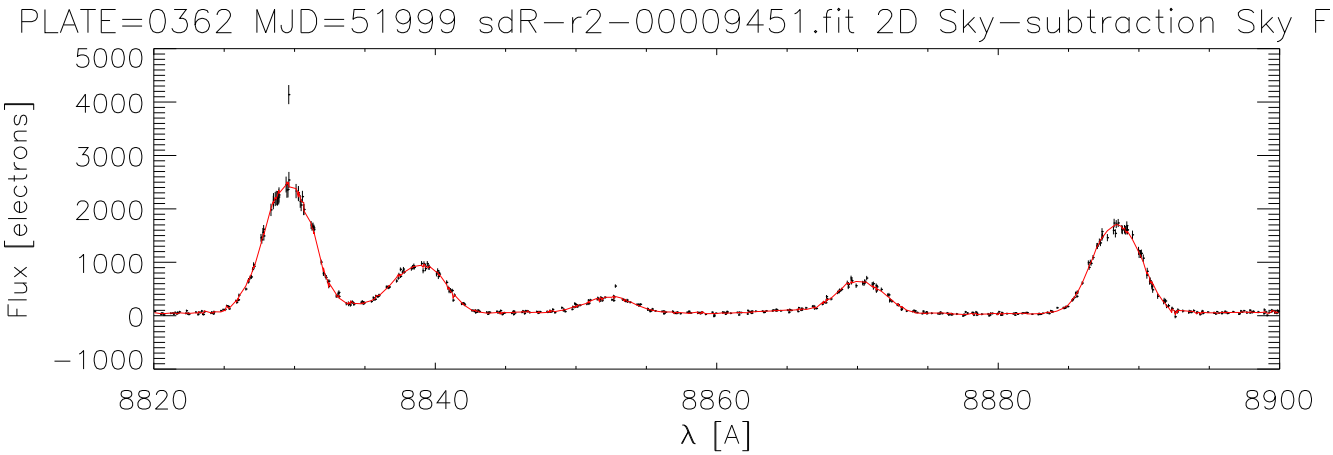

PLATE=0362 MJD=51999 sdR-r2-00009451.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

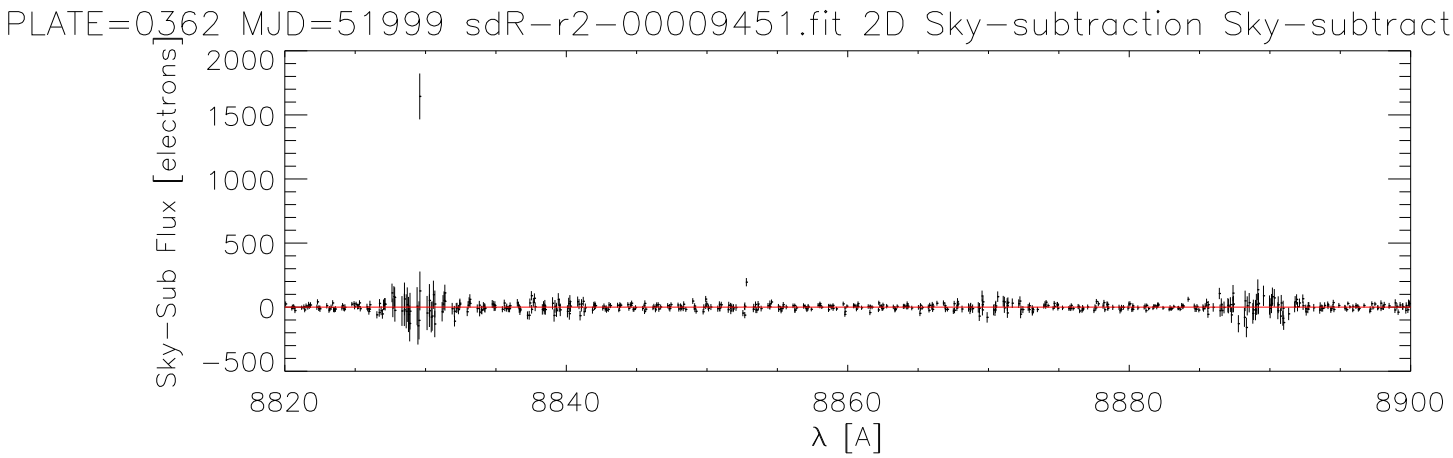

PLATE=0362 MJD=51999 sdR-r2-00009451.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

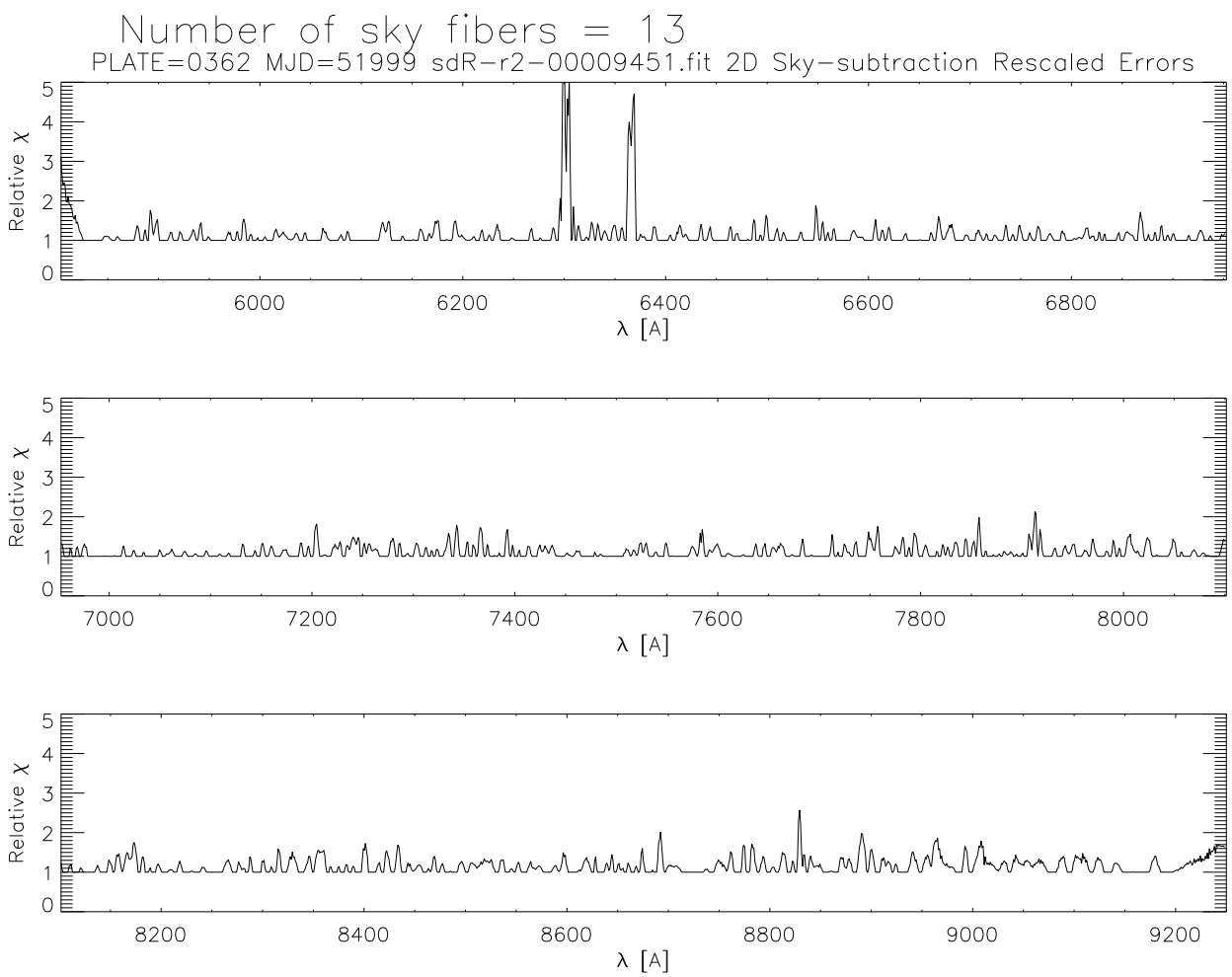

PLATE=0362 MJD=51999 sdR-r2-00009451.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

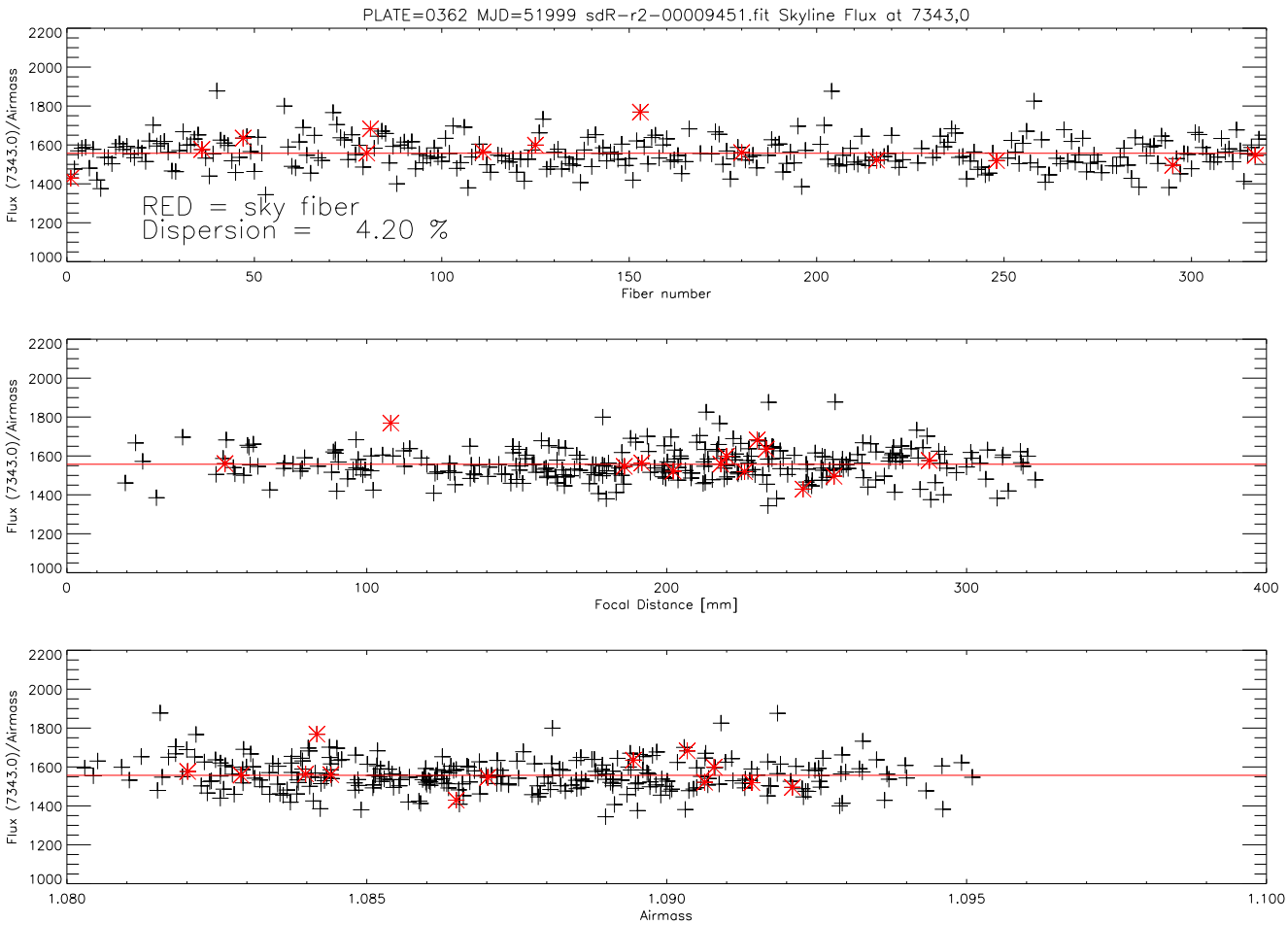

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r2-00009451.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

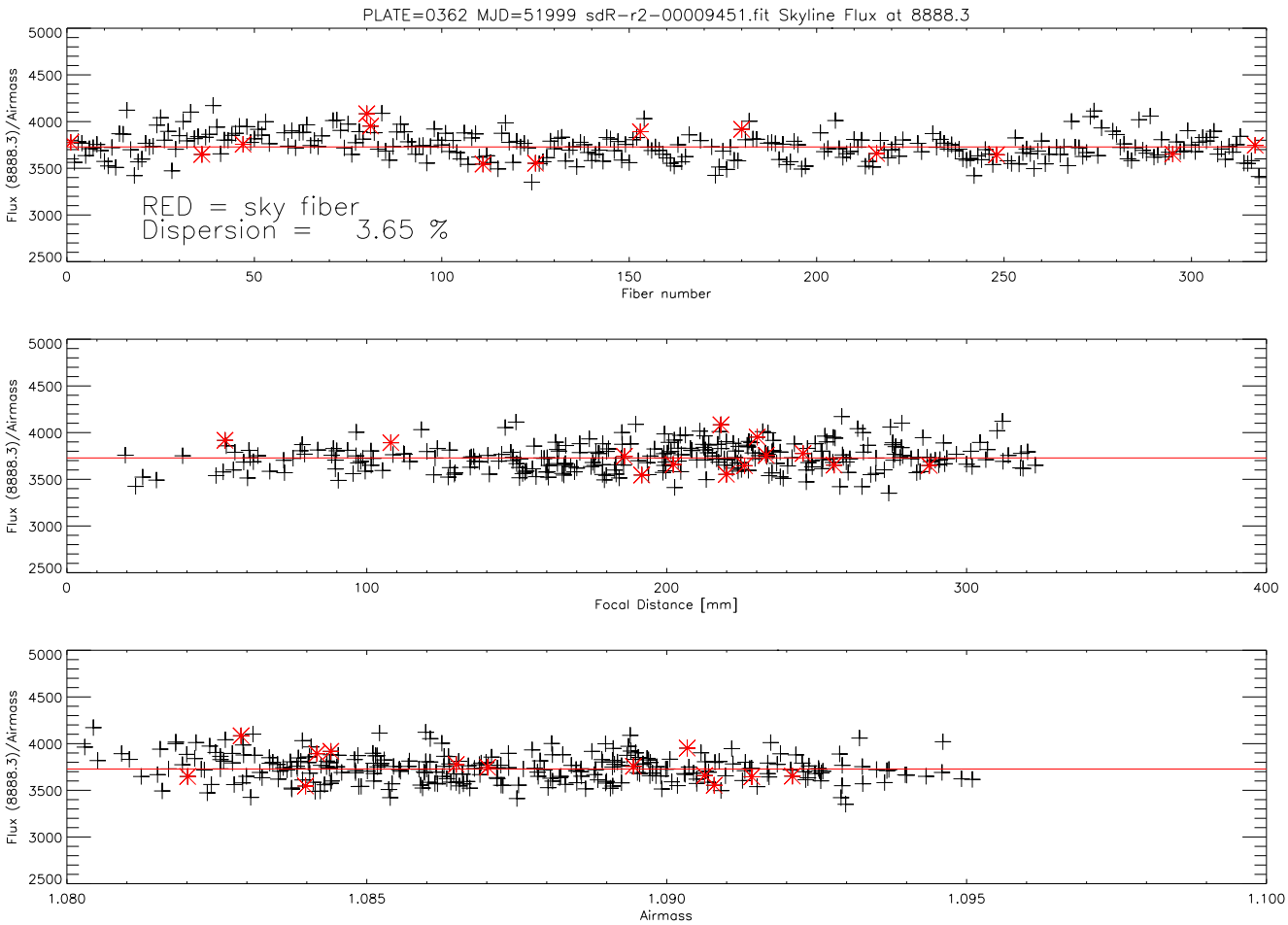

PLATE=0362 MJD=51999 sdR-r2-00009451.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

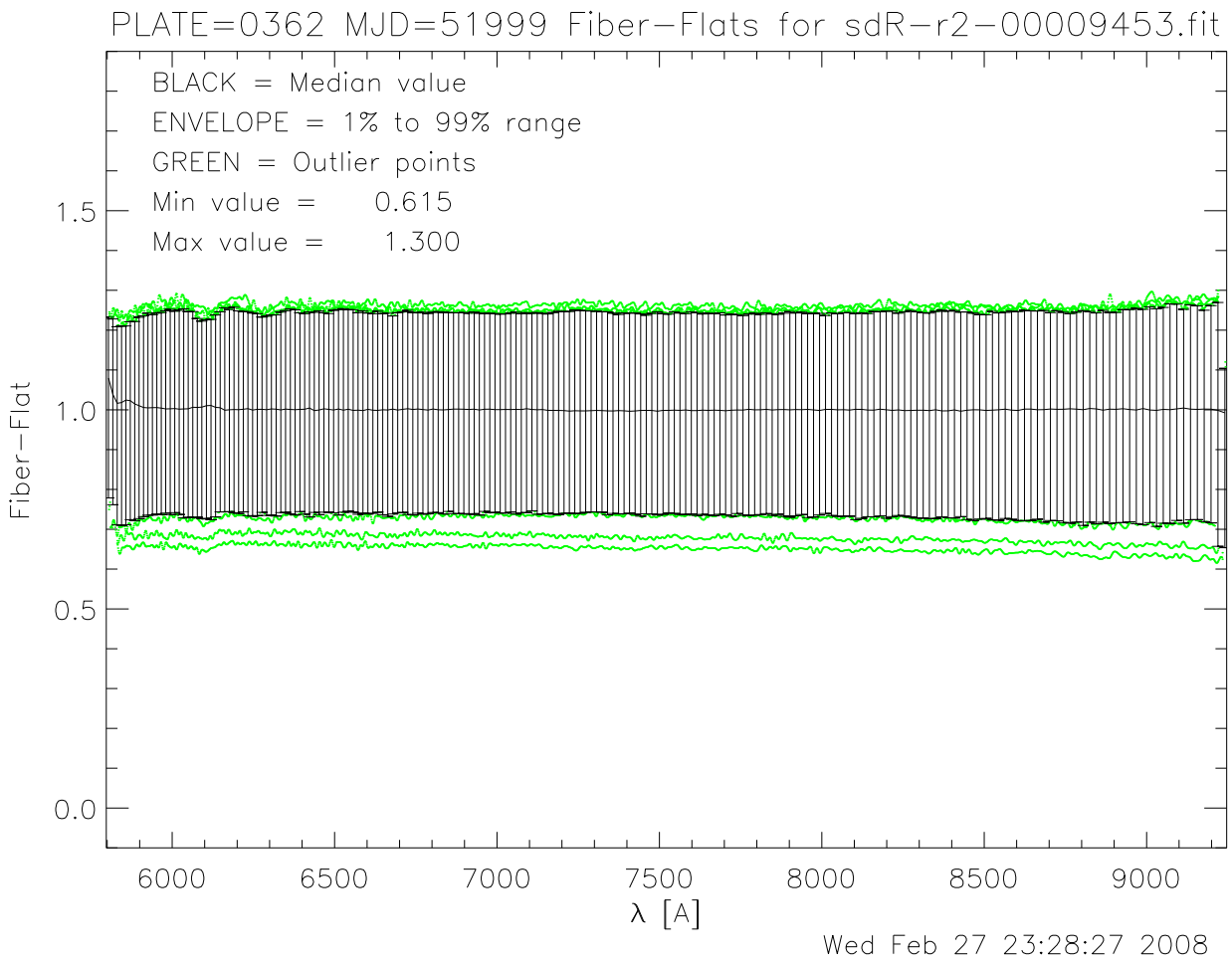

PLATE=0362 MJD=51999 sdR-r2-00009451.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

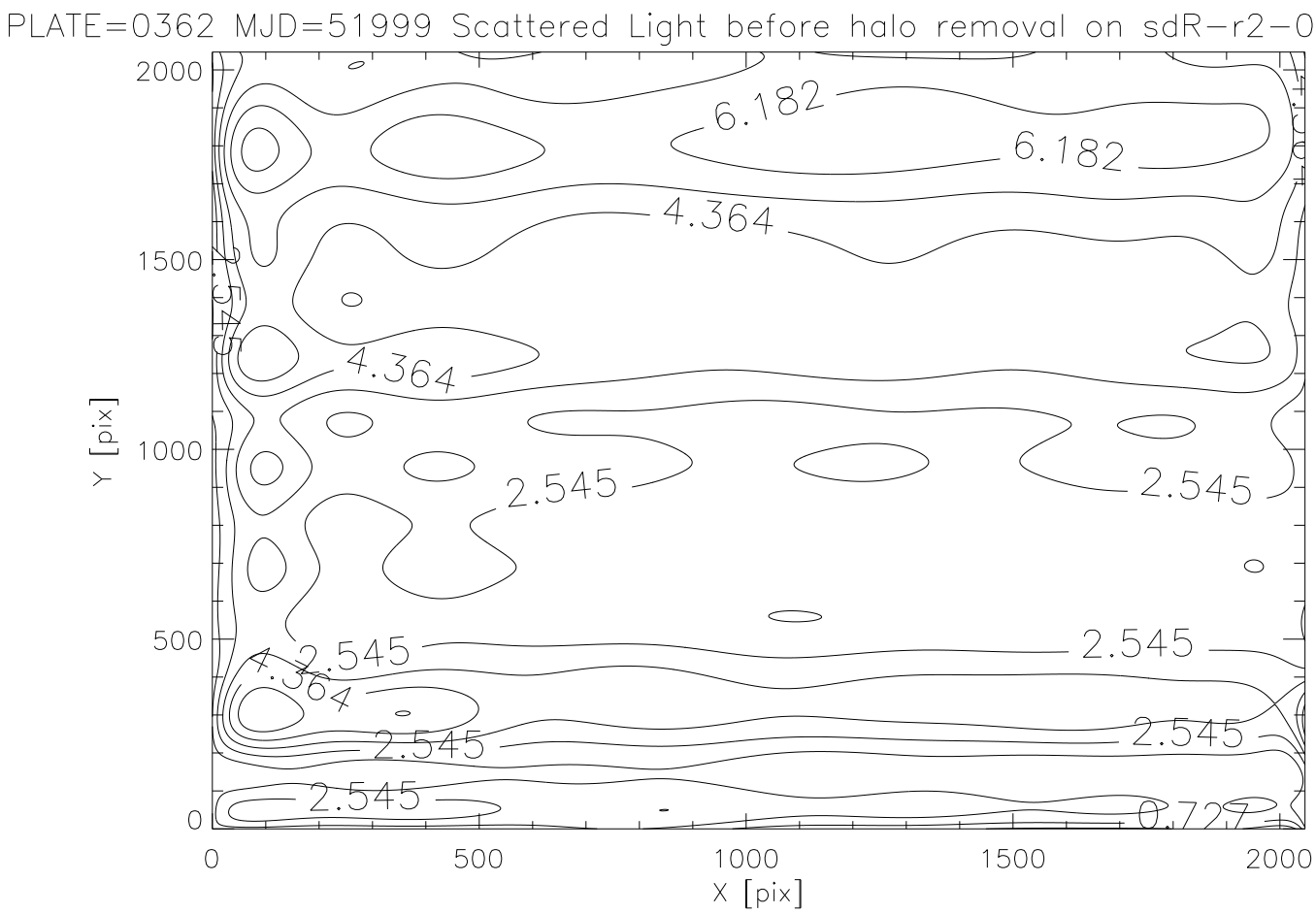

PLATE=0362 MJD=51999 sdR-r2-00009451.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

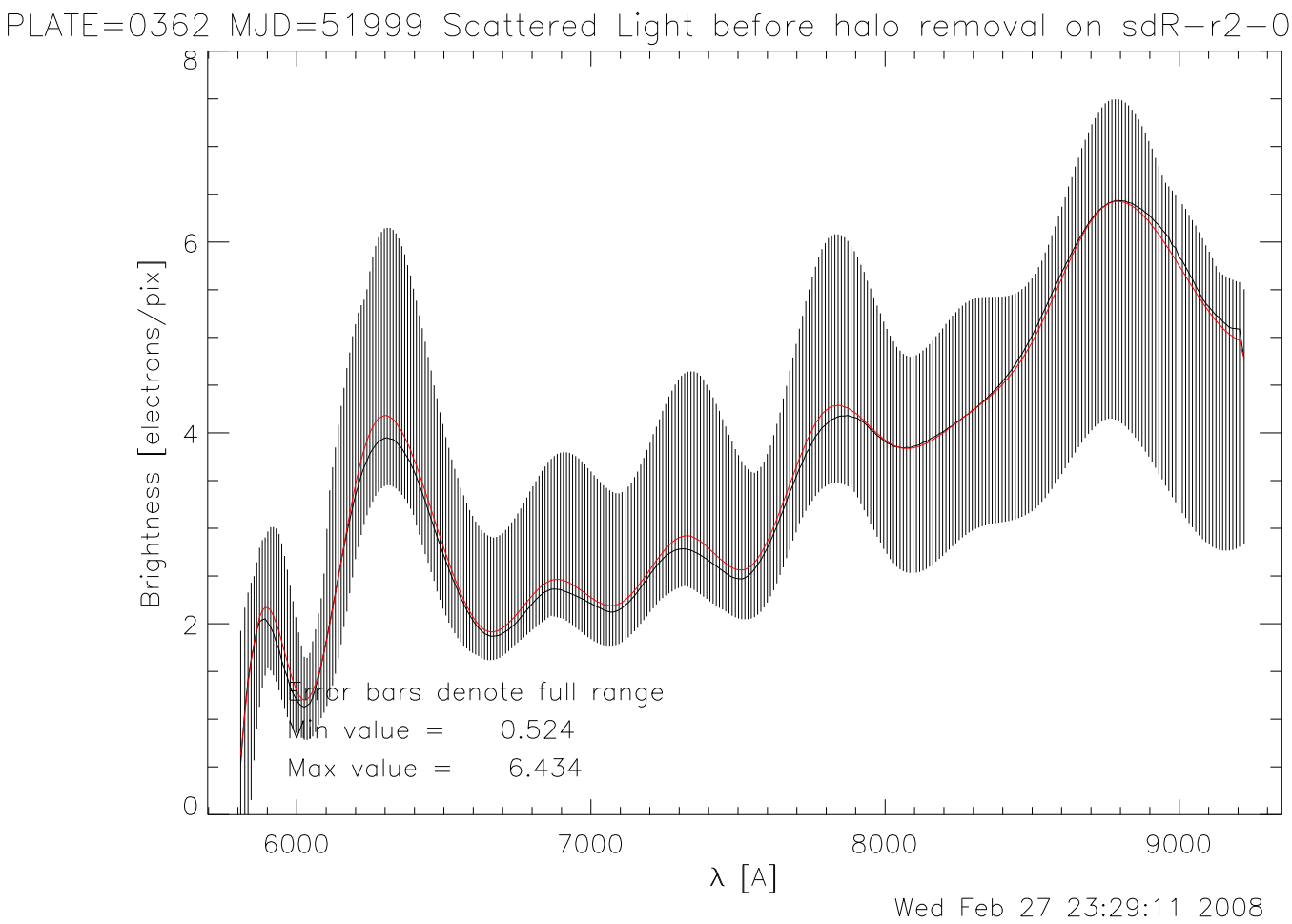

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r2-00009451.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

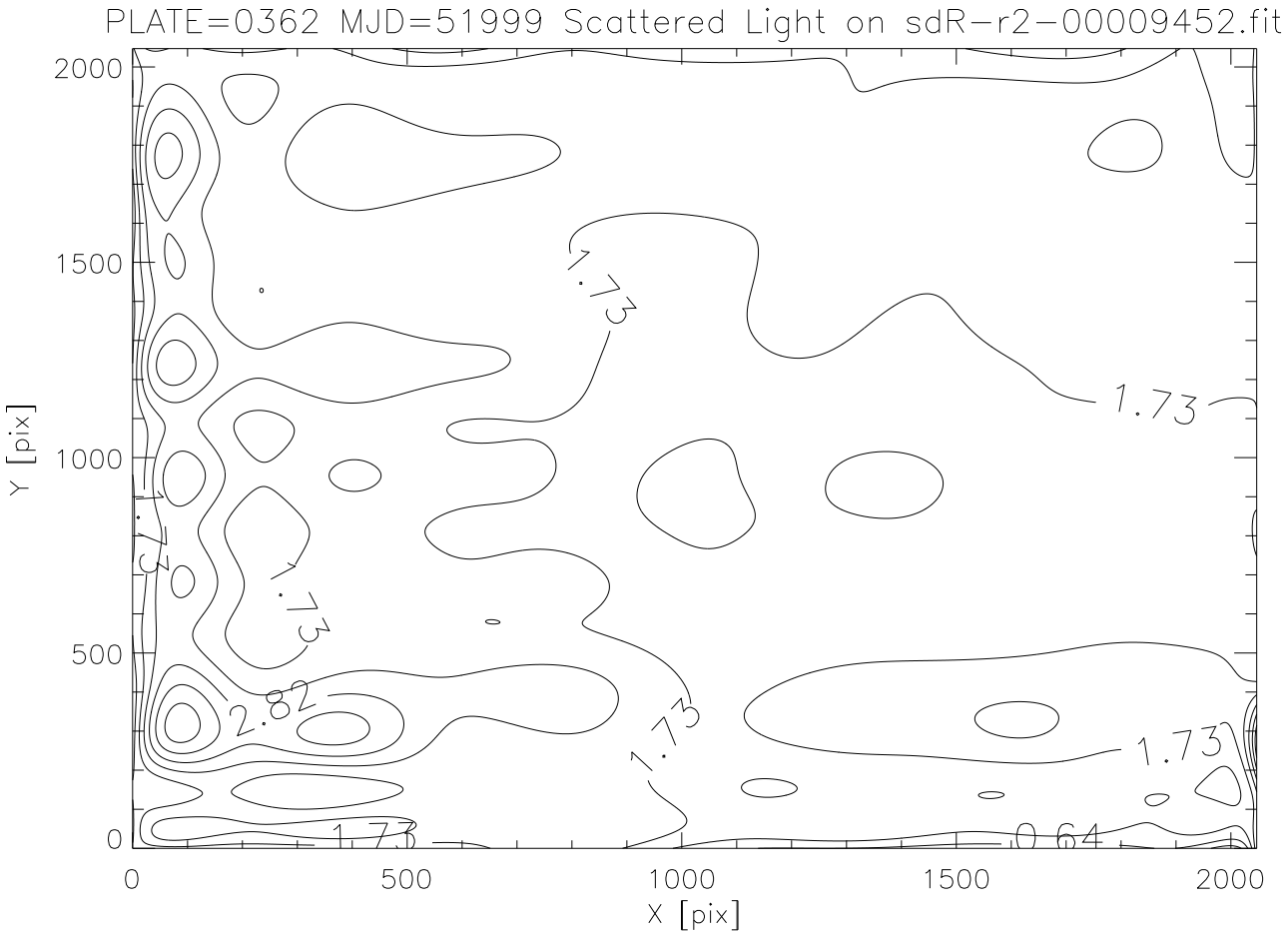

PLATE=0362 MJD=51999 sdR-r2-00009451.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.20 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

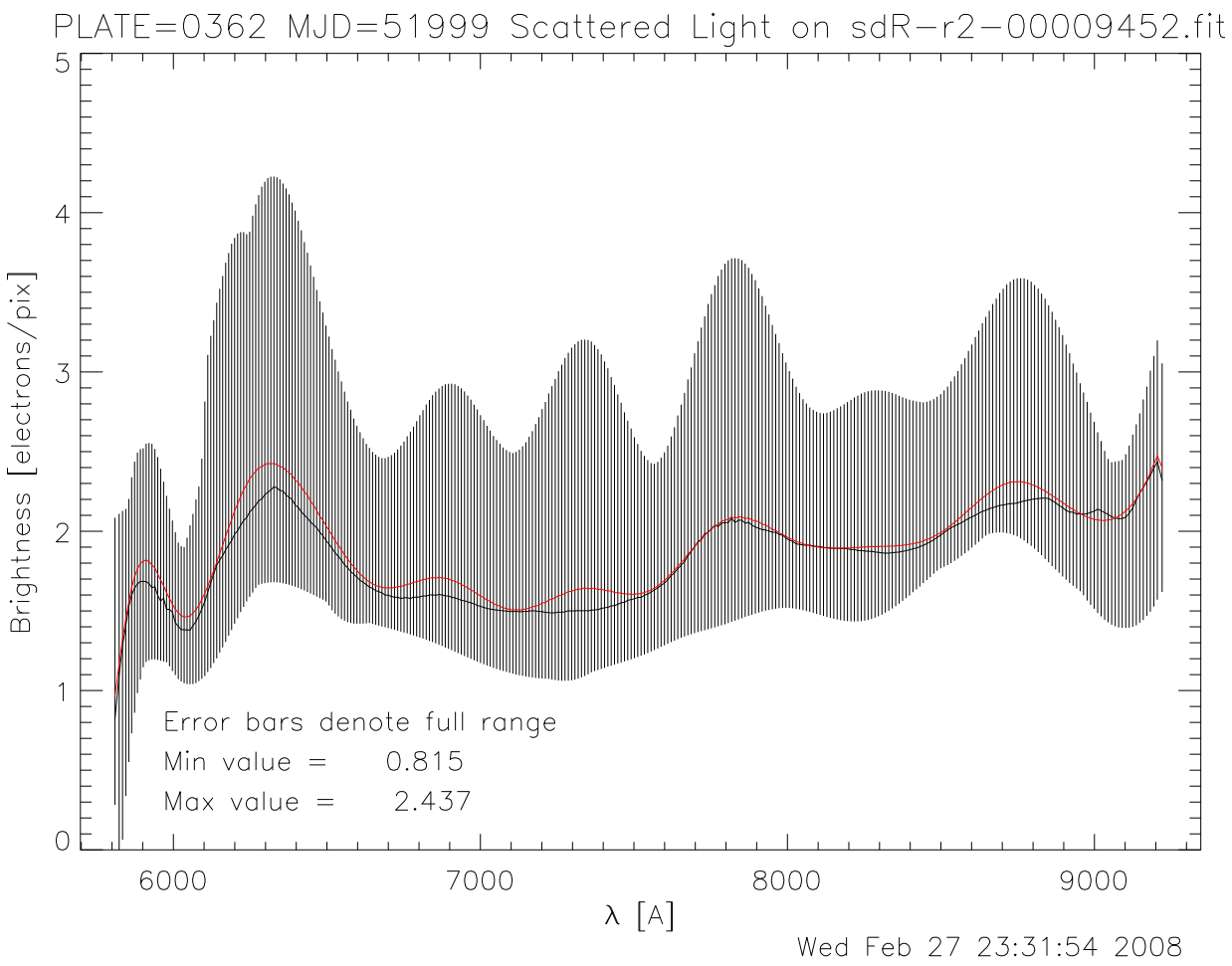

PLATE=0362 MJD=51999 sdR-r2-00009451.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.65 %
Fiber number
Focal Distance [mm]
Airmass

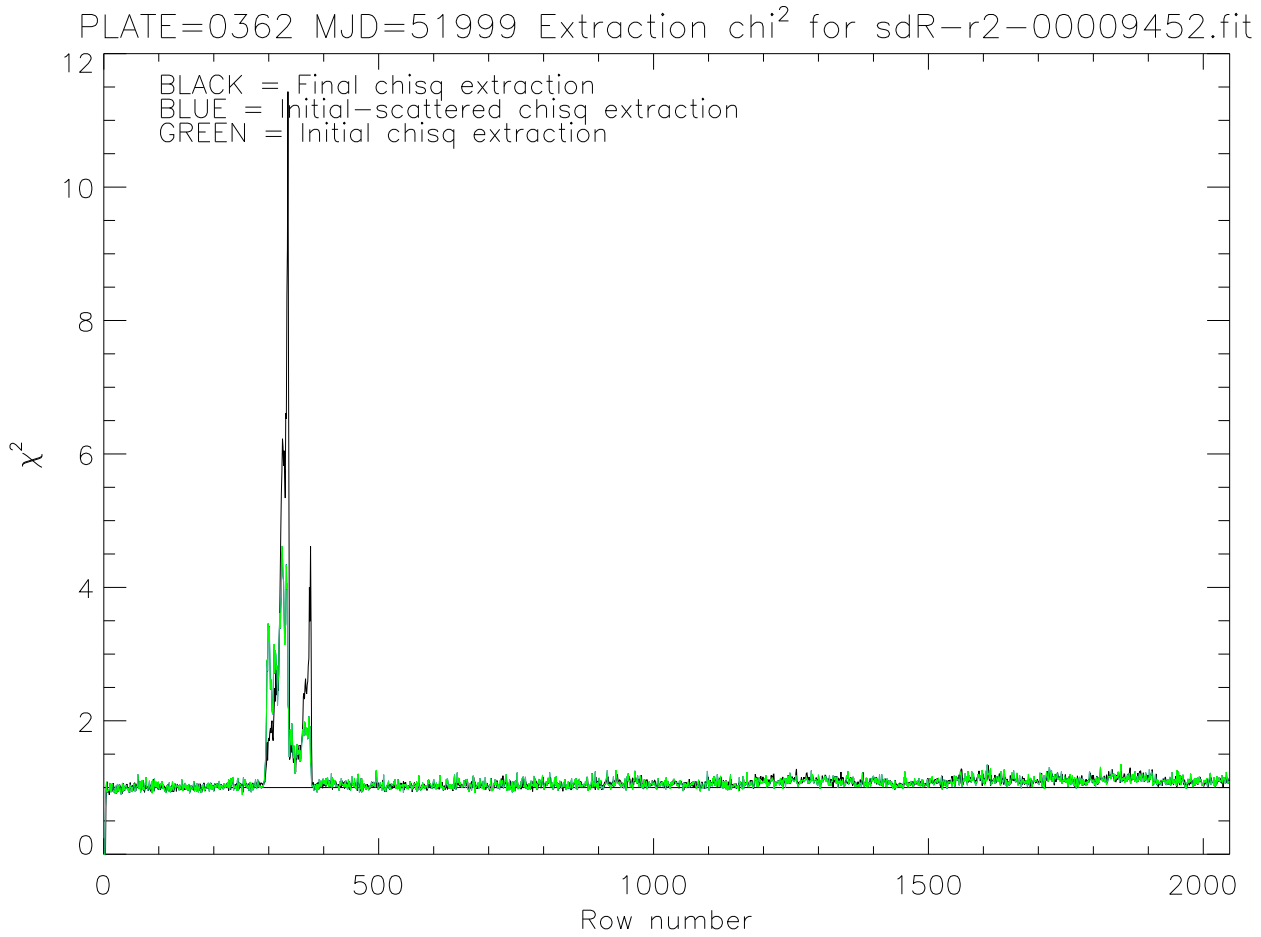

PLATE=0362 MJD=51999 Fiber-Flats for sdR-r2-00009453.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.615
Max value = 1.300
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Feb 27 23:28:27 2008

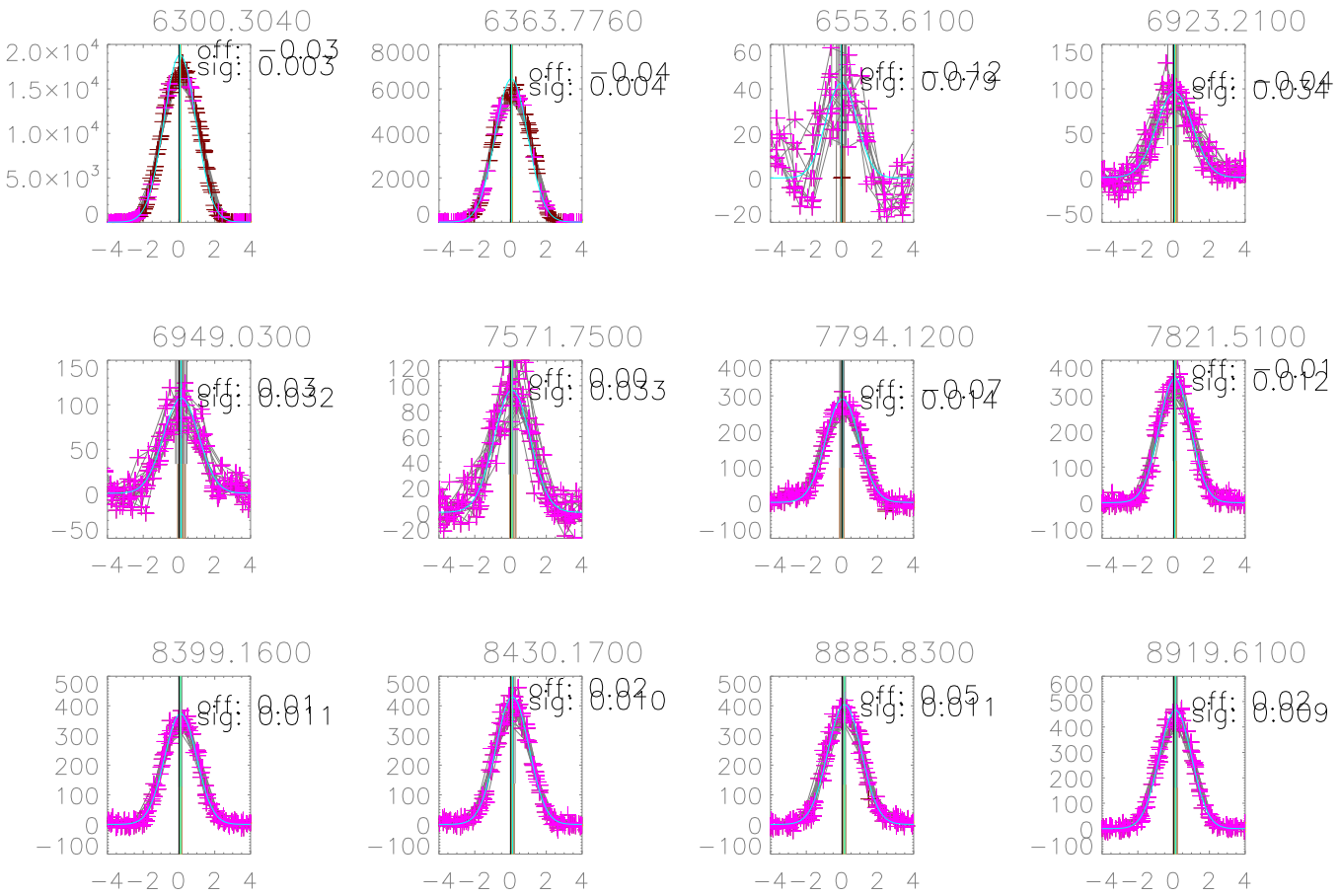

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r2-00009452.fi
6.182
6.182
4.364
4.364
2.545
2.545
2.545
2.545
4.364
2.545
2.545
2.545
0.727
Y [pix]
X [pix]
0
500
1000
1500
2000

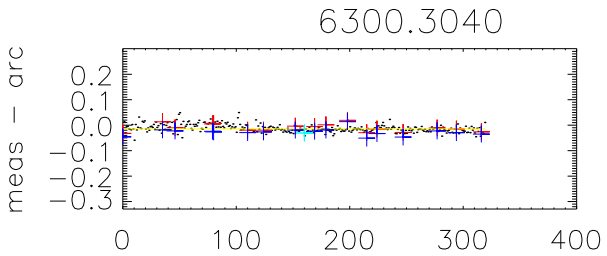

PLATE=0362 MJD=51999 Scattered Light before halo removal on sdR-r2-00009452.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.524
Max value = 6.434
Wed Feb 27 23:29:11 2008

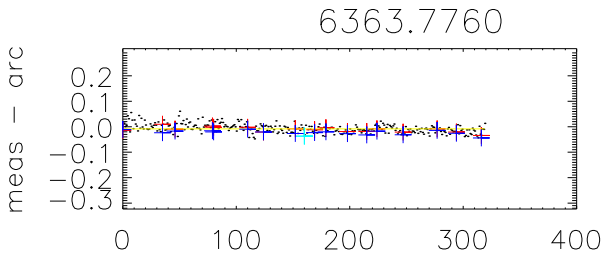

PLATE=0362 MJD=51999 Scattered Light on sdR-r2-00009452.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
1.73
1.73
1.73
1.73
2.82
1.73
1.73
1.73
0.64

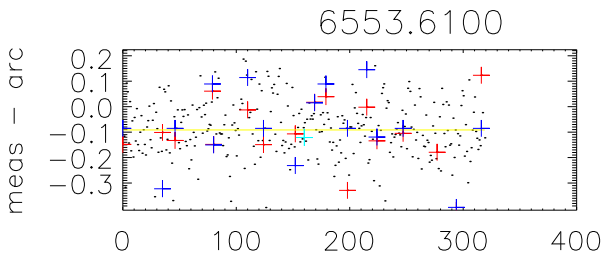

PLATE=0362 MJD=51999 Scattered Light on sdR-r2-00009452.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 0.815
Max value = 2.437
Wed Feb 27 23:31:54 2008

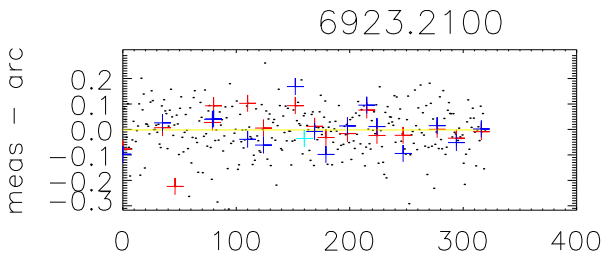

PLATE=0362 MJD=51999 Extraction chi^2 for sdR-r2-00009452.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

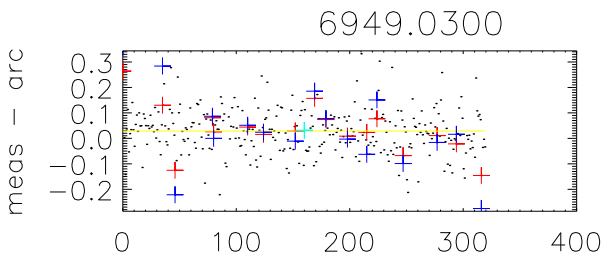

6300.3040
off: −0.03
sig: 0.003
6363.7760
off: −0.04
sig: 0.004
6553.6100
off: −0.12
sig: 0.079
6923.2100
off: −0.04
sig: 0.034
6949.0300
off: 0.03
sig: 0.032
7571.7500
off: 0.00
sig: 0.033
7794.1200
off: −0.07
sig: 0.014
7821.5100
off: −0.01
sig: 0.012
8399.1600
off: 0.01
sig: 0.011
8430.1700
off: 0.02
sig: 0.010
8885.8300
off: 0.05
sig: 0.011
8919.6100
off: 0.02
sig: 0.009

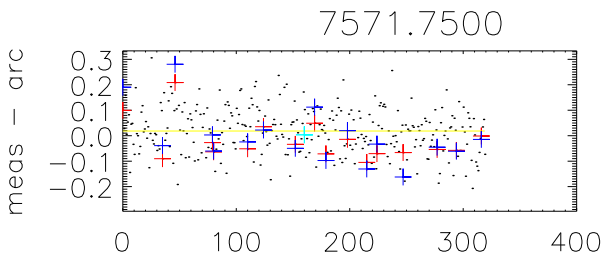

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

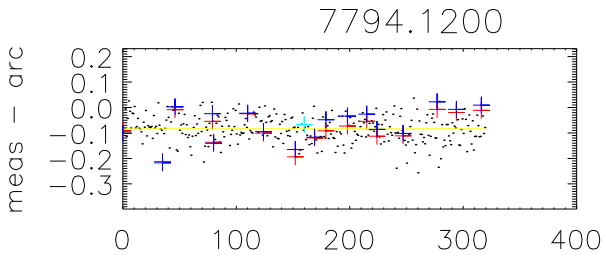

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

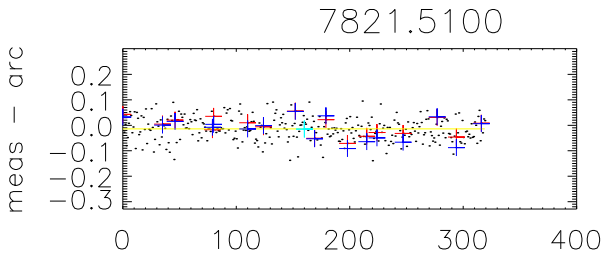

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

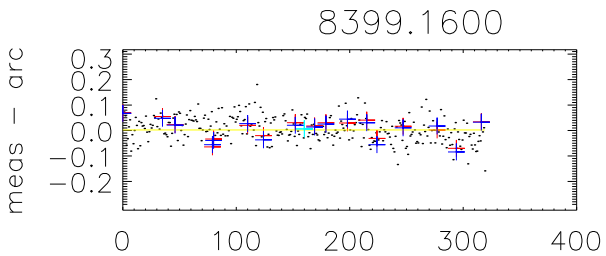

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

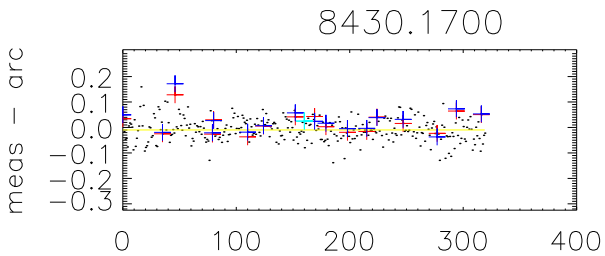

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

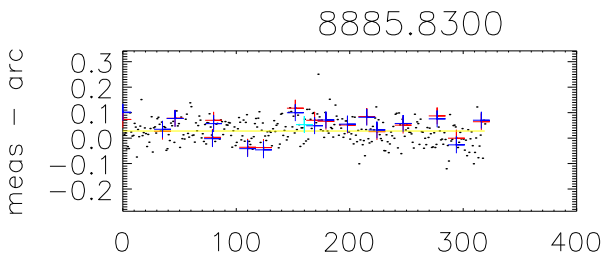

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

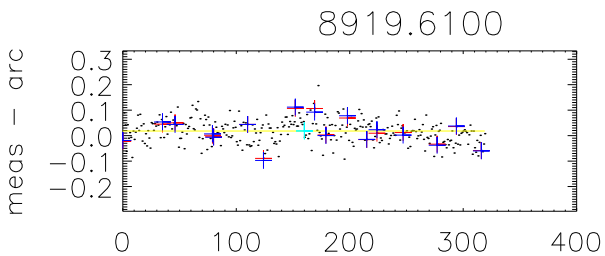

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

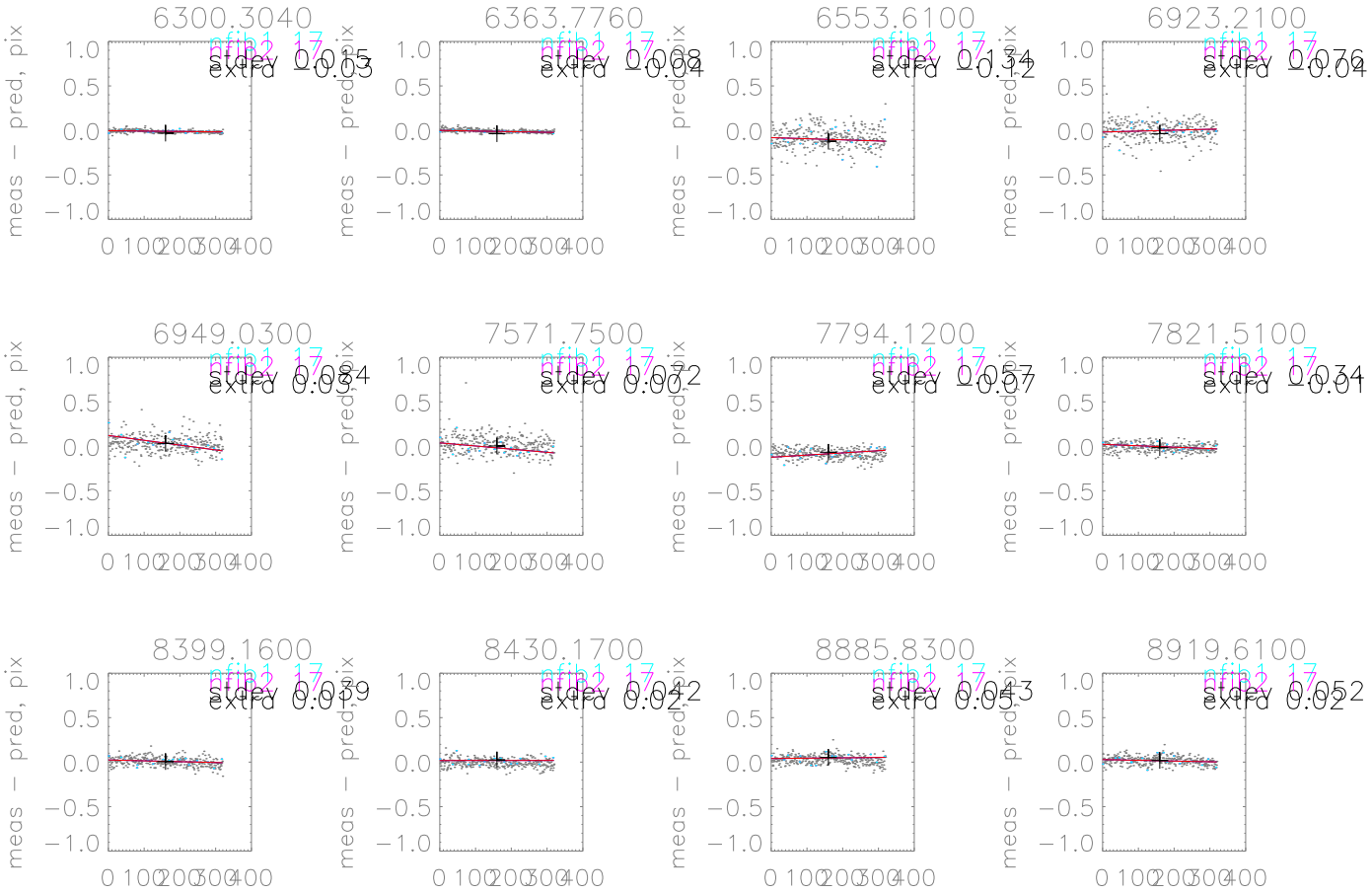

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

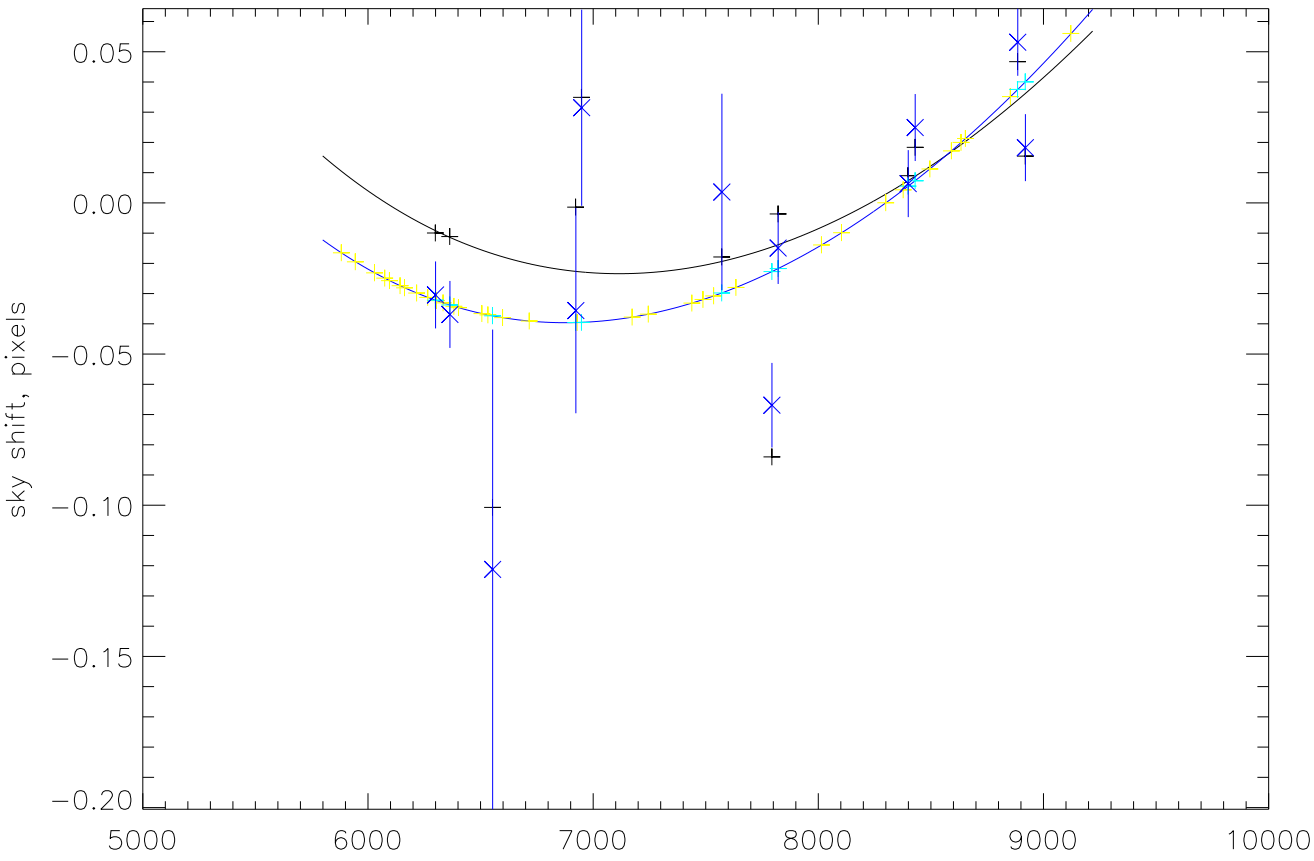

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

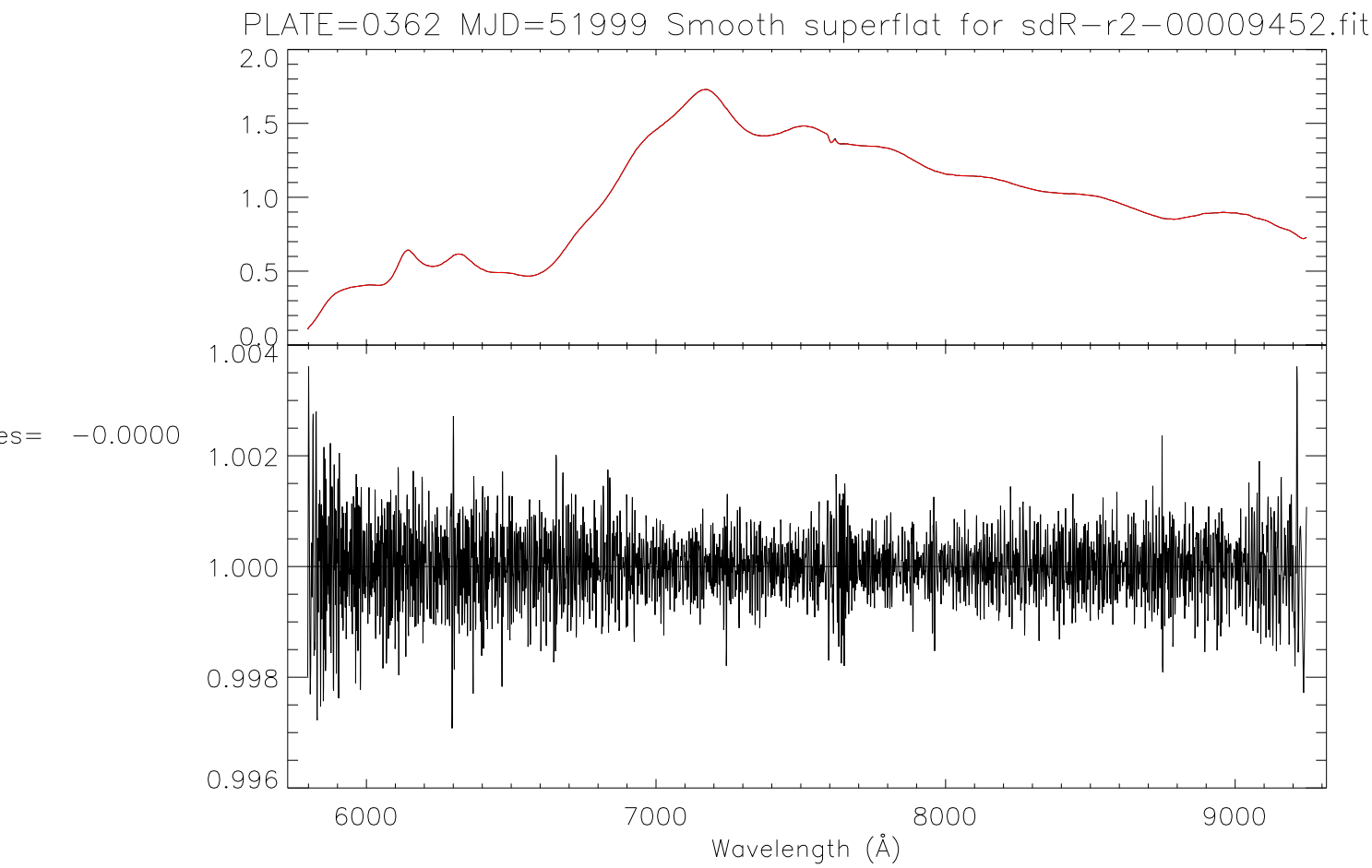

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

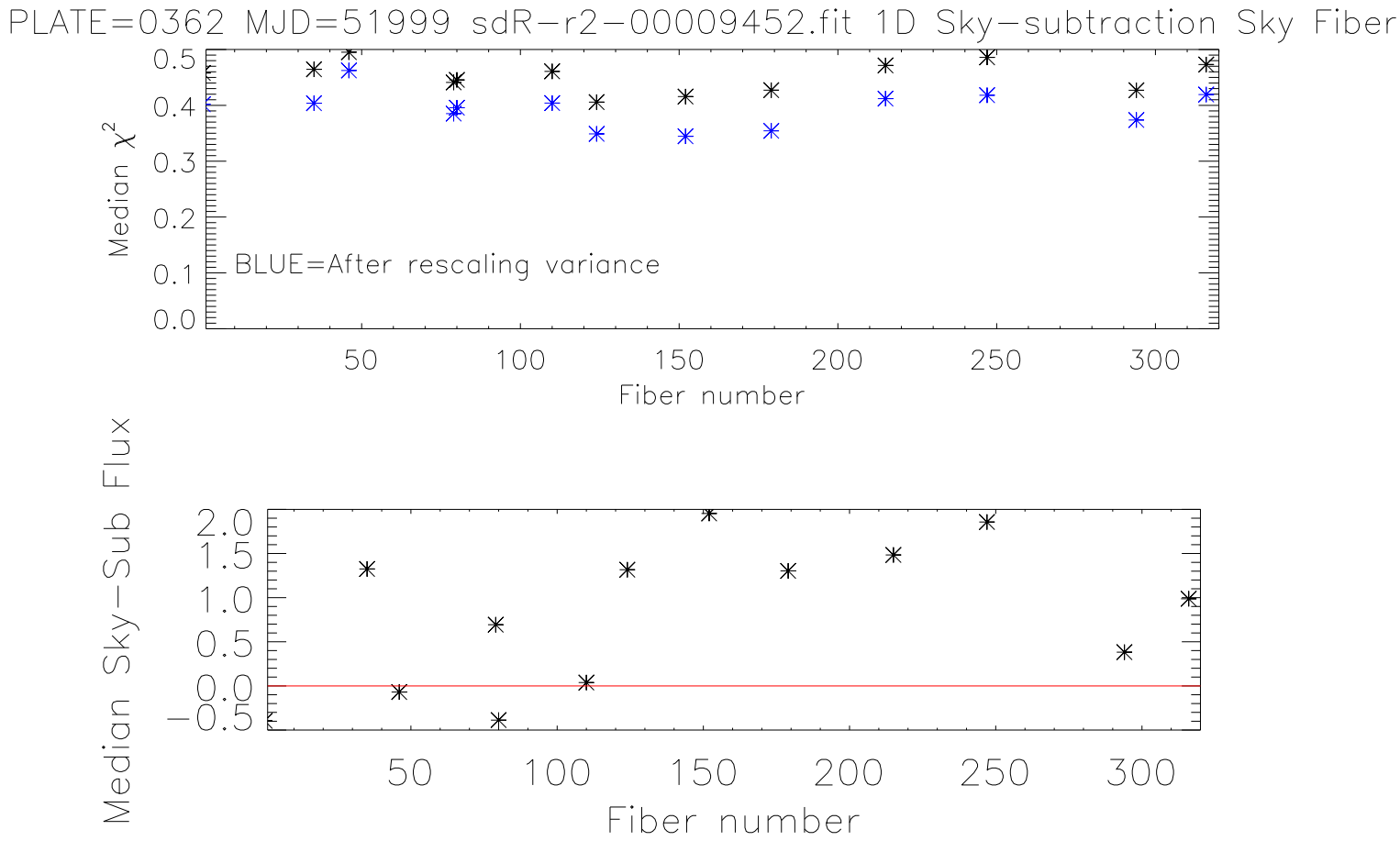

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

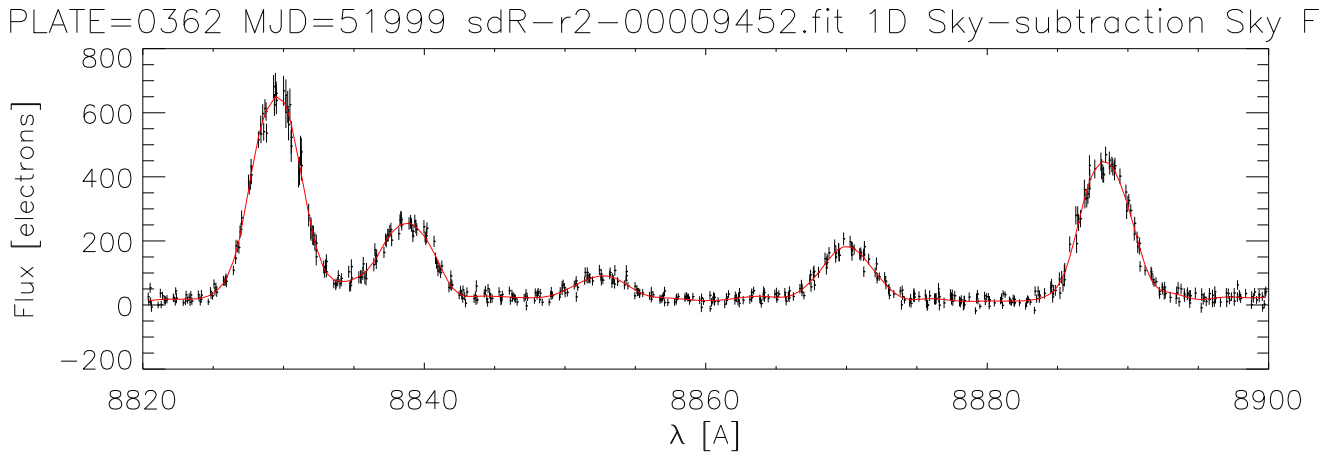

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

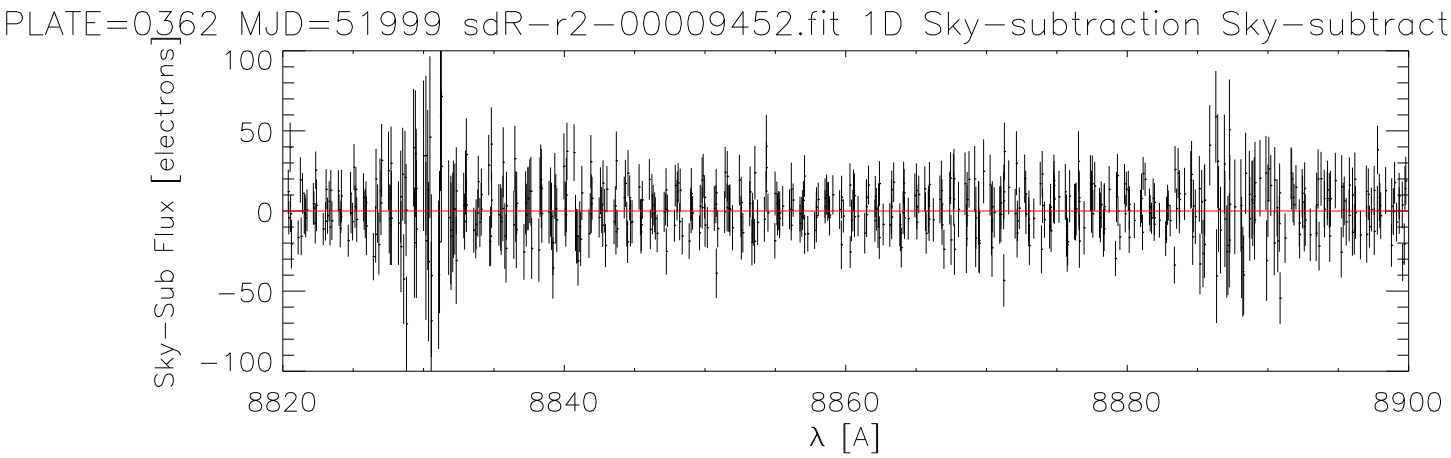

6300.3040
stdev 0.015
extra −0.03
6363.7760
stdev 0.008
extra −0.04
6553.6100
stdev 0.134
extra −0.12
6923.2100
stdev 0.076
extra −0.04
6949.0300
stdev 0.084
extra 0.03
7571.7500
stdev 0.072
extra 0.00
7794.1200
stdev 0.057
extra −0.07
7821.5100
stdev 0.034
extra −0.01
8399.1600
stdev 0.039
extra 0.01
8430.1700
stdev 0.042
extra 0.02
8885.8300
stdev 0.043
extra 0.05
8919.6100
stdev 0.052
extra 0.02
meas − pred, pix
mfb21 17
mfb32 17

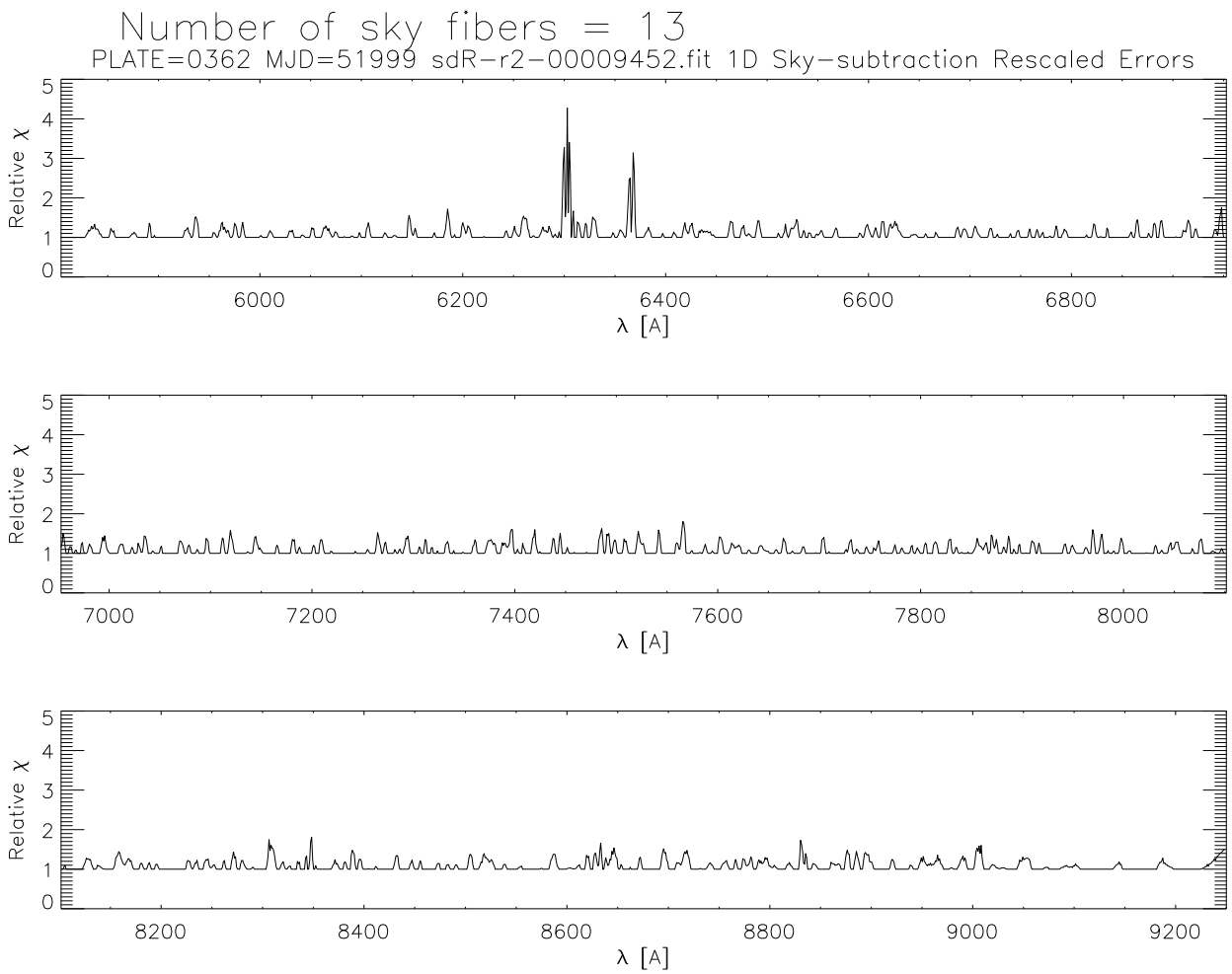

0.05
0.00
−0.05
−0.10
−0.15
−0.20
sky shift, pixels
5000
6000
7000
8000
9000
10000

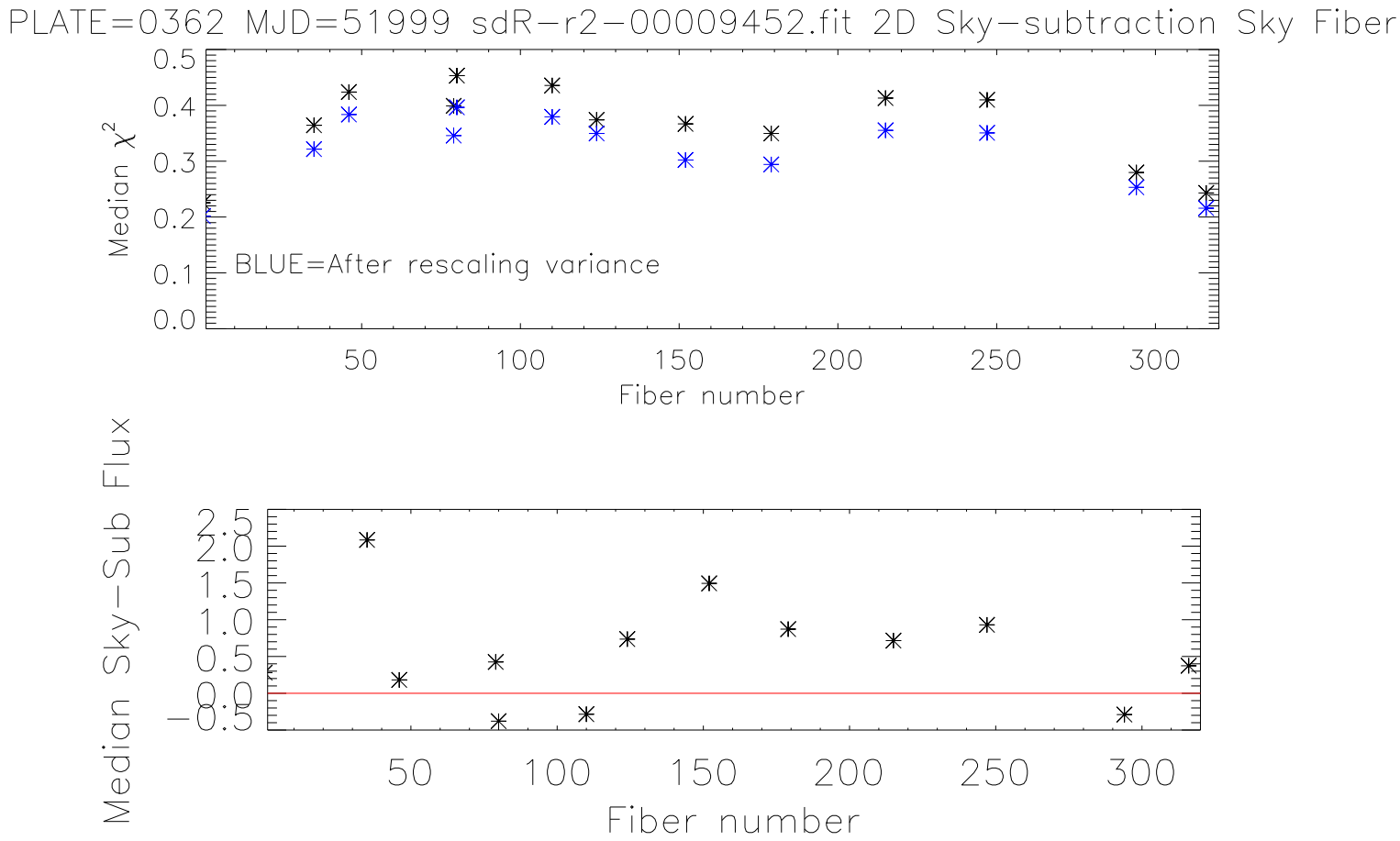

PLATE=0362 MJD=51999 Smooth superflat for sdR-r2-00009452.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)

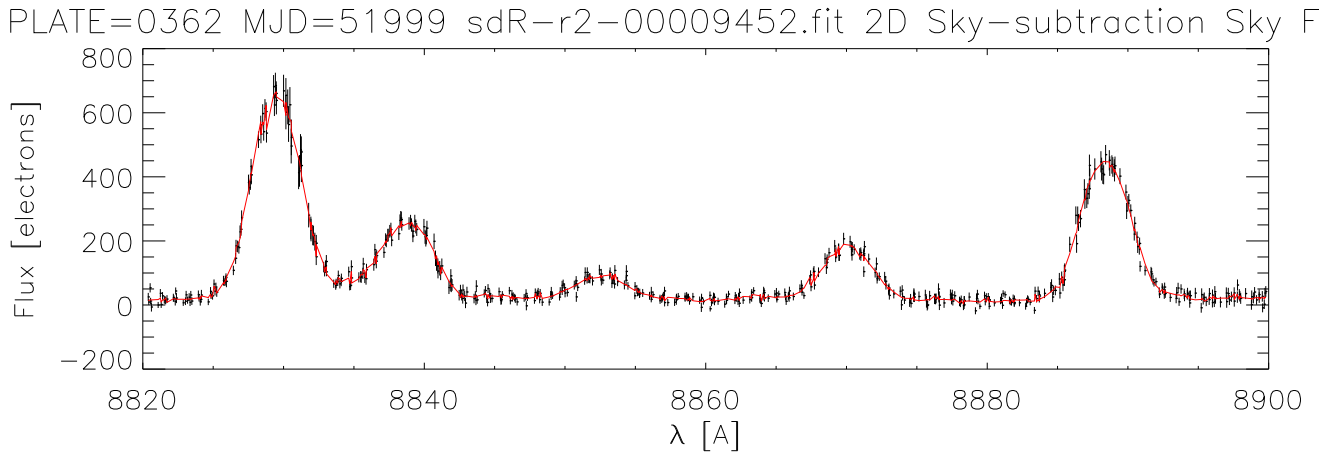

PLATE=0362 MJD=51999 sdR-r2-00009452.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

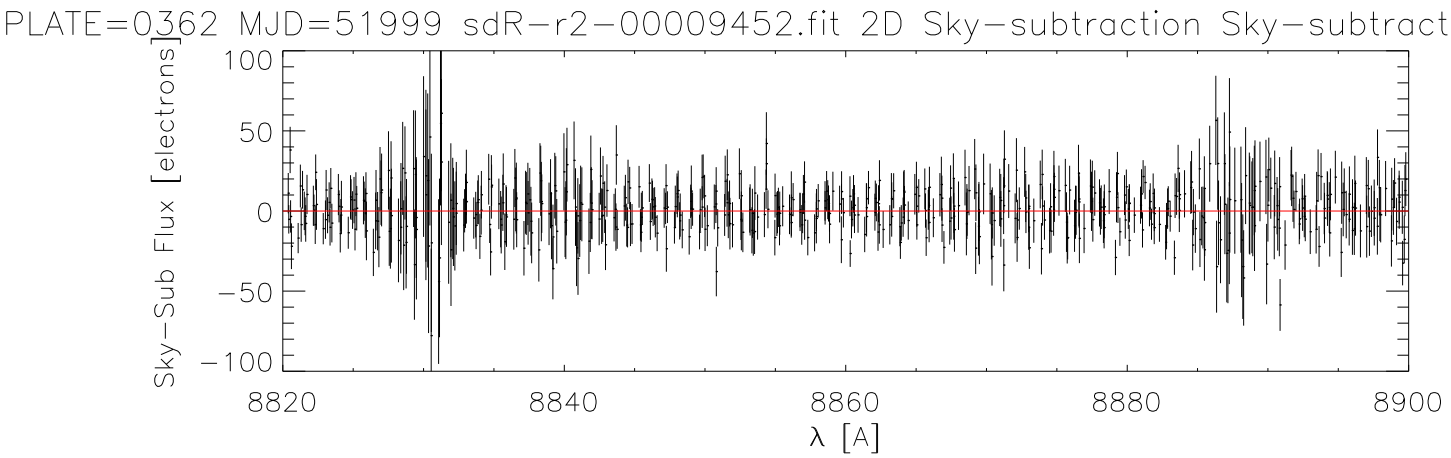

PLATE=0362 MJD=51999 sdR-r2-00009452.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]

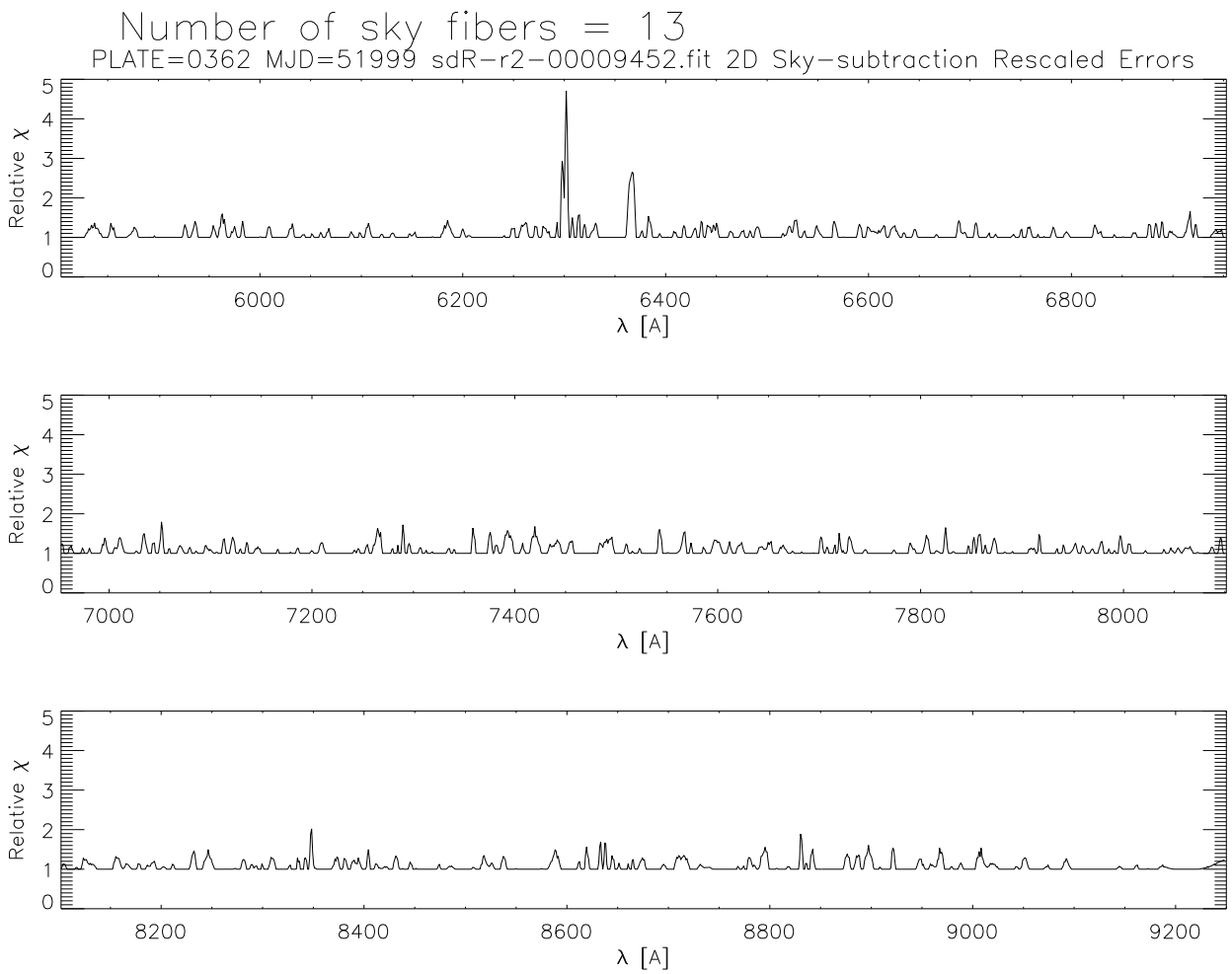

PLATE=0362 MJD=51999 sdR-r2-00009452.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]

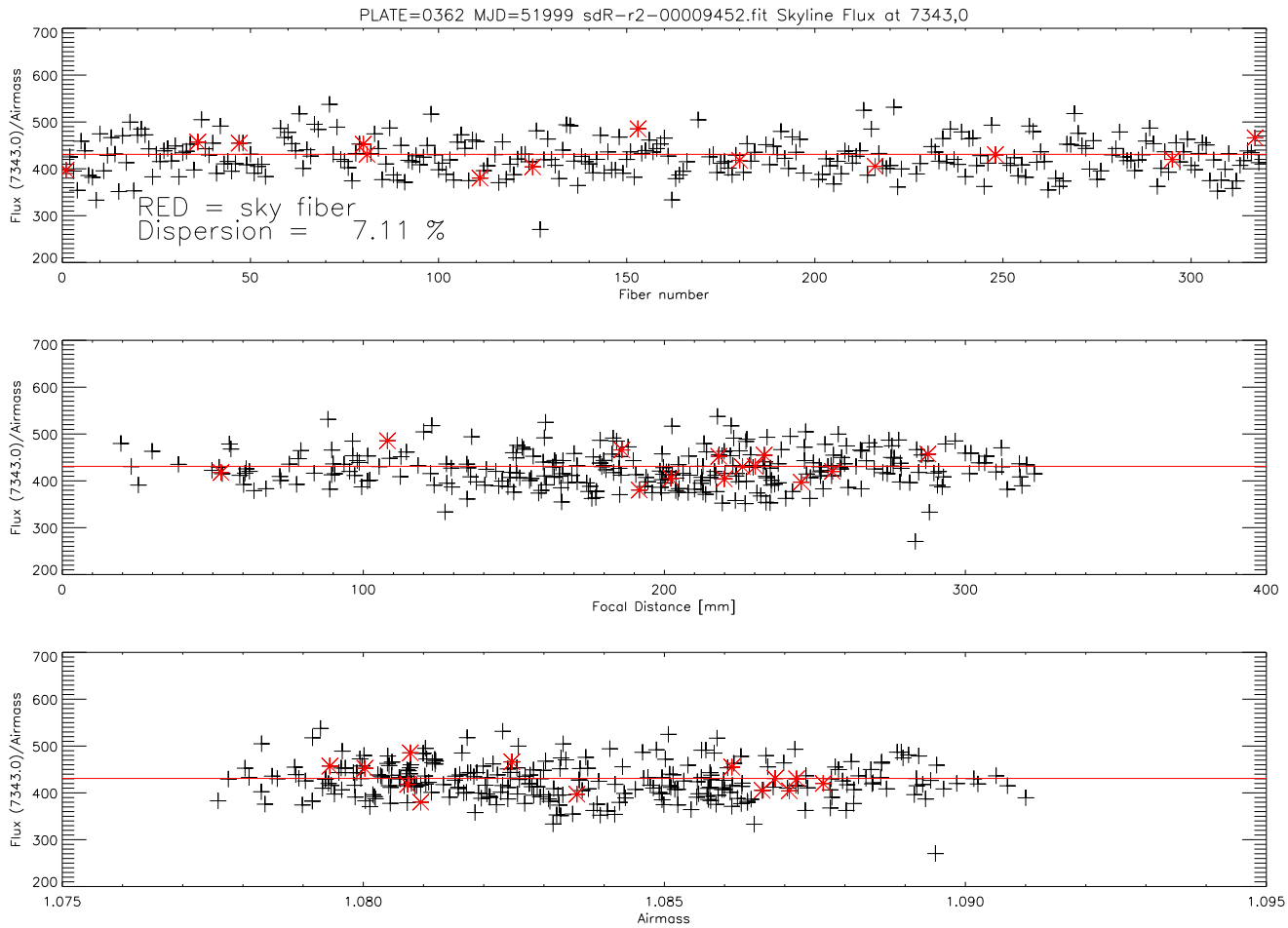

Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r2-00009452.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

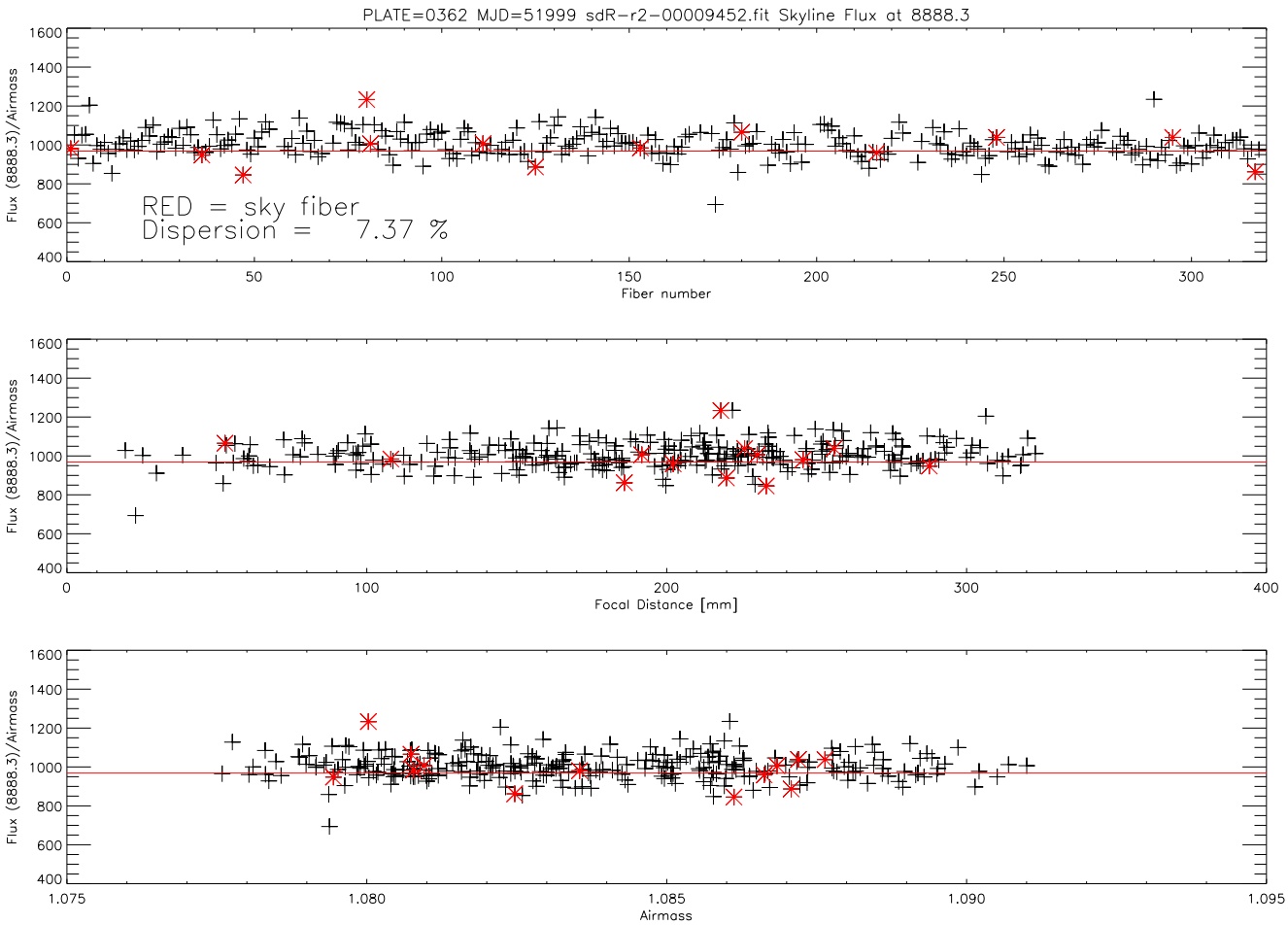

PLATE=0362 MJD=51999 sdR-r2-00009452.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=0362 MJD=51999 sdR-r2-00009452.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
800
600
400
200
0
-200
8820
8840
8860
8880
8900
λ [A]


PLATE=0362 MJD=51999 sdR-r2-00009452.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
100
50
0
-50
-100
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 13
PLATE=0362 MJD=51999 sdR-r2-00009452.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200


PLATE=0362 MJD=51999 sdR-r2-00009452.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 7.11 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=0362 MJD=51999 sdR-r2-00009452.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 7.37 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass