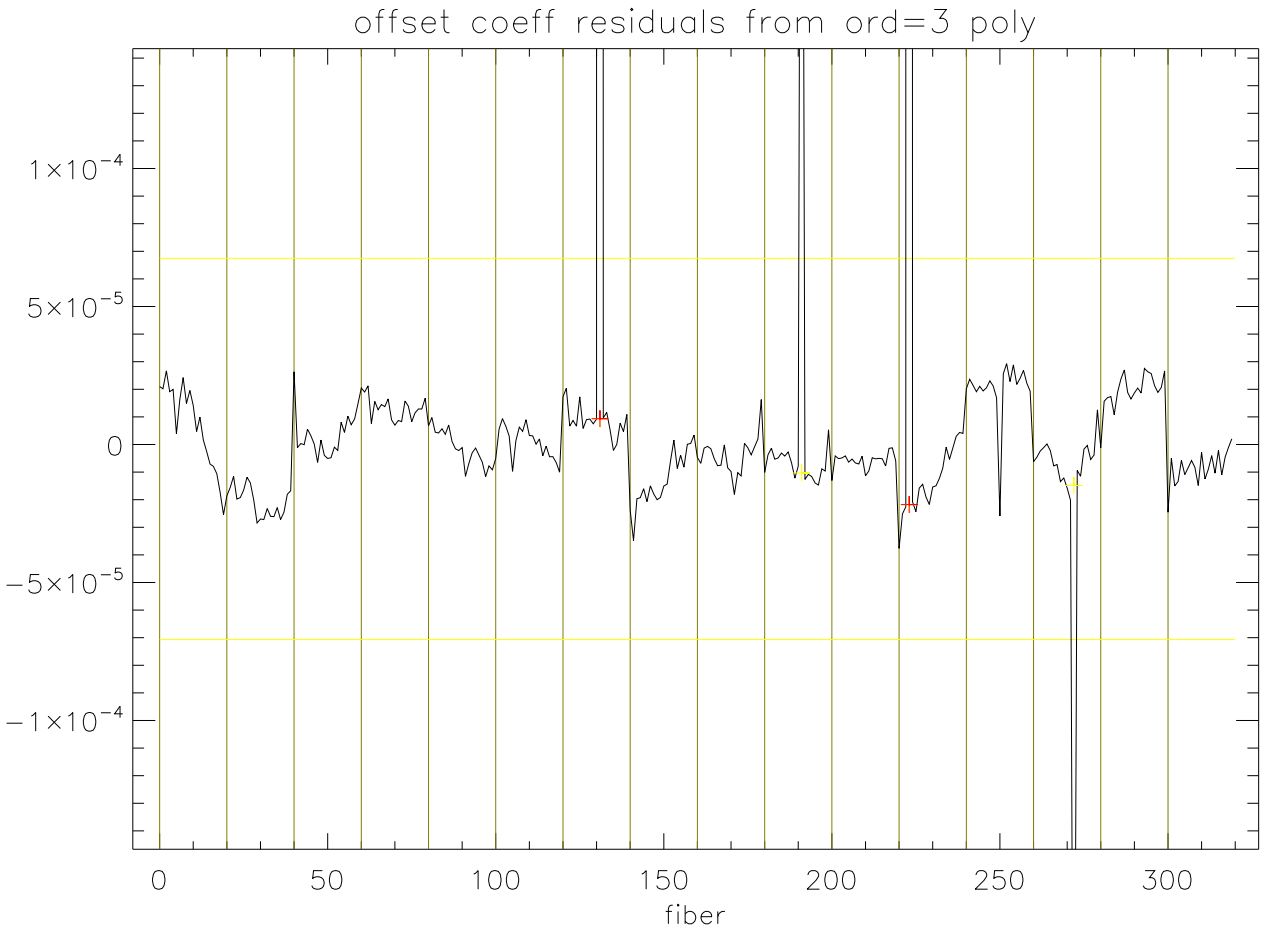
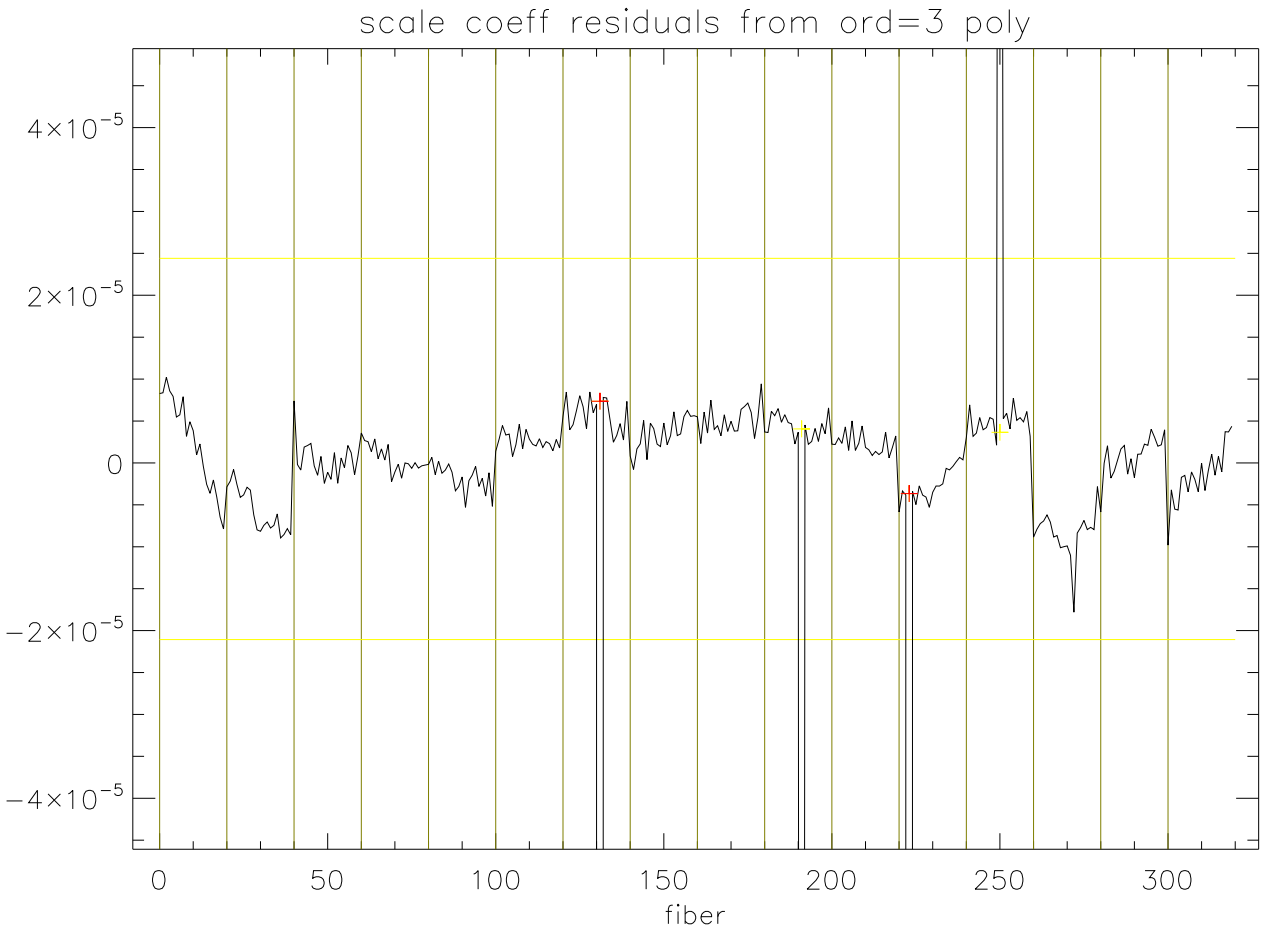
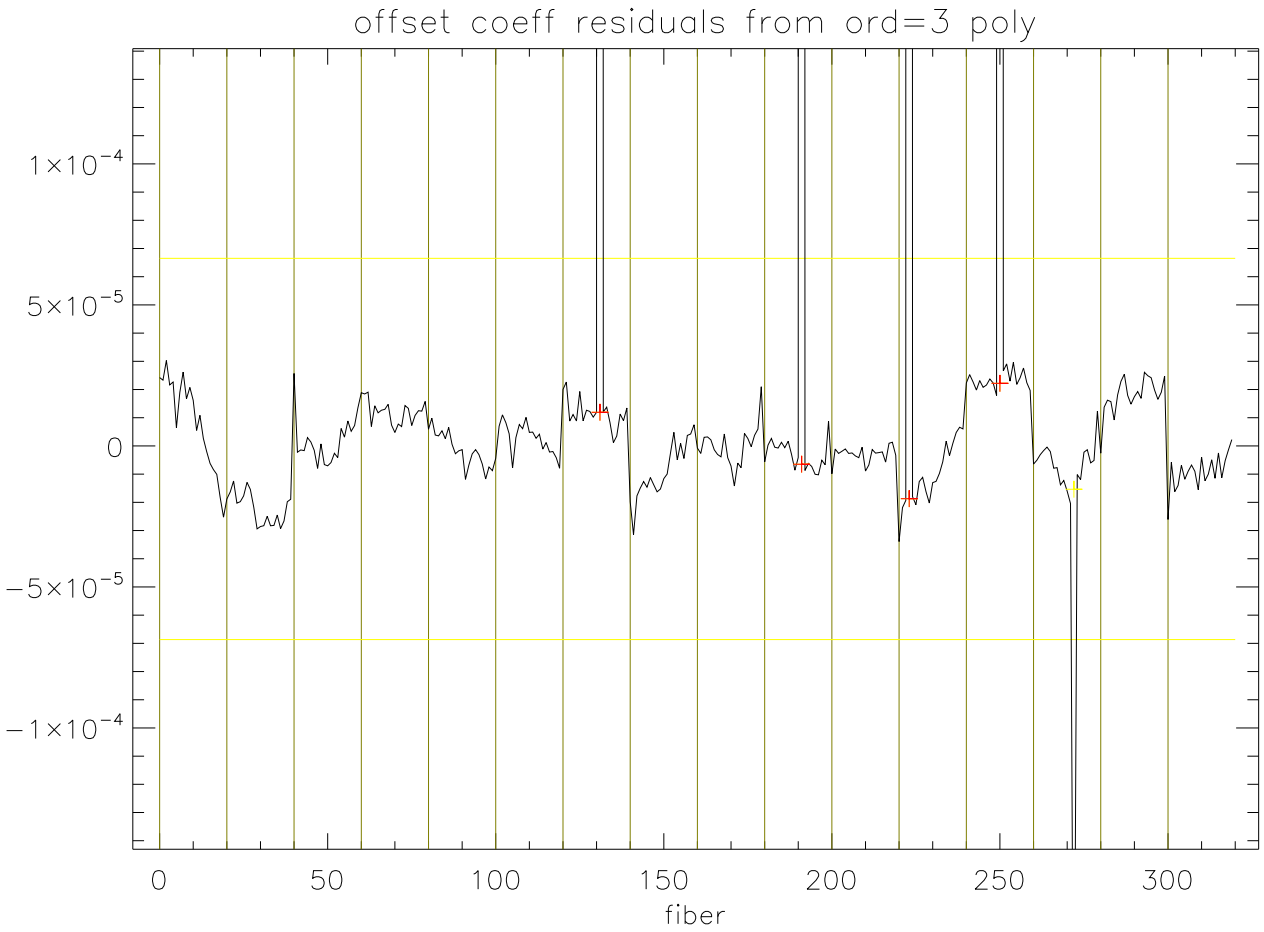
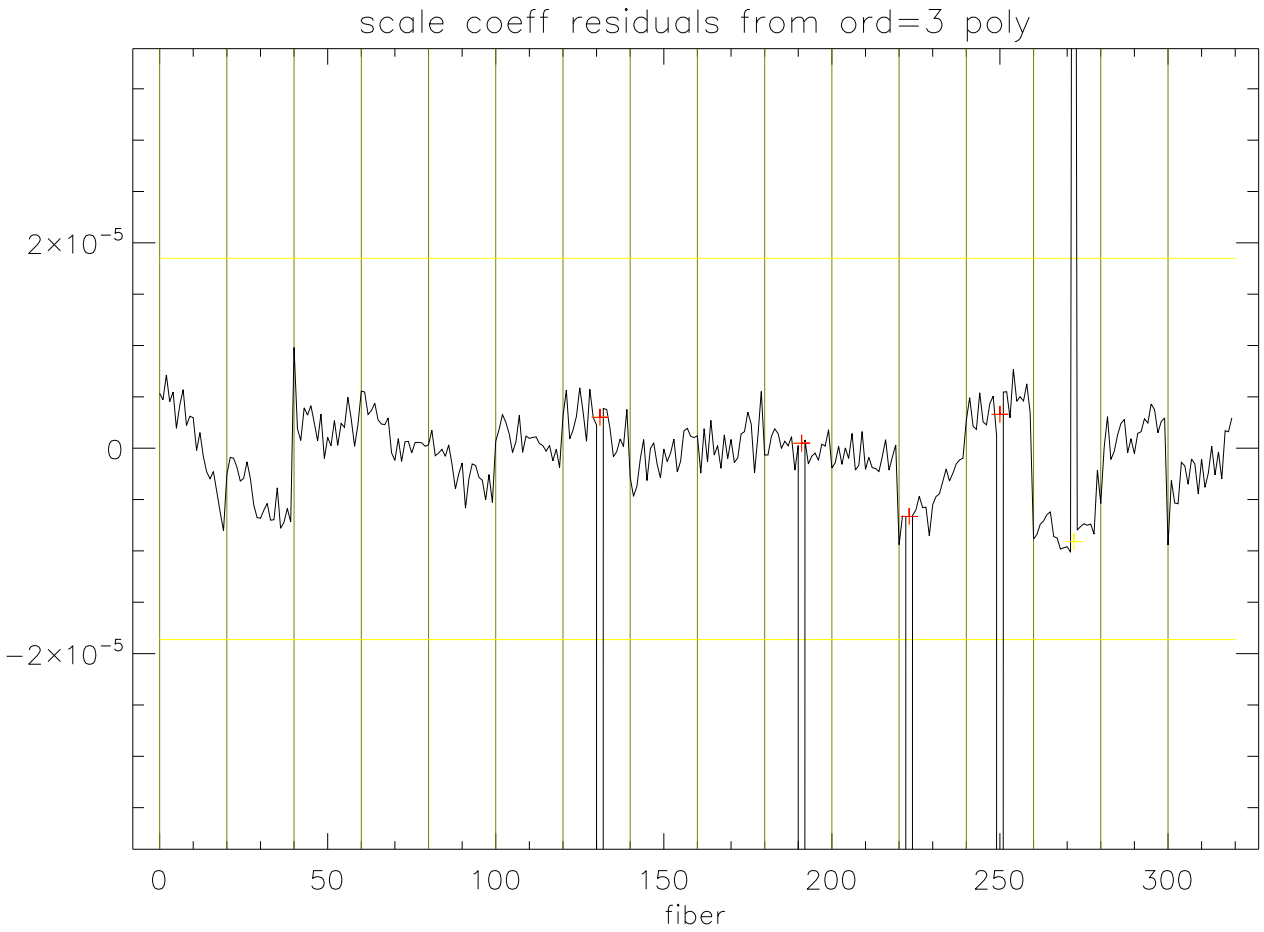
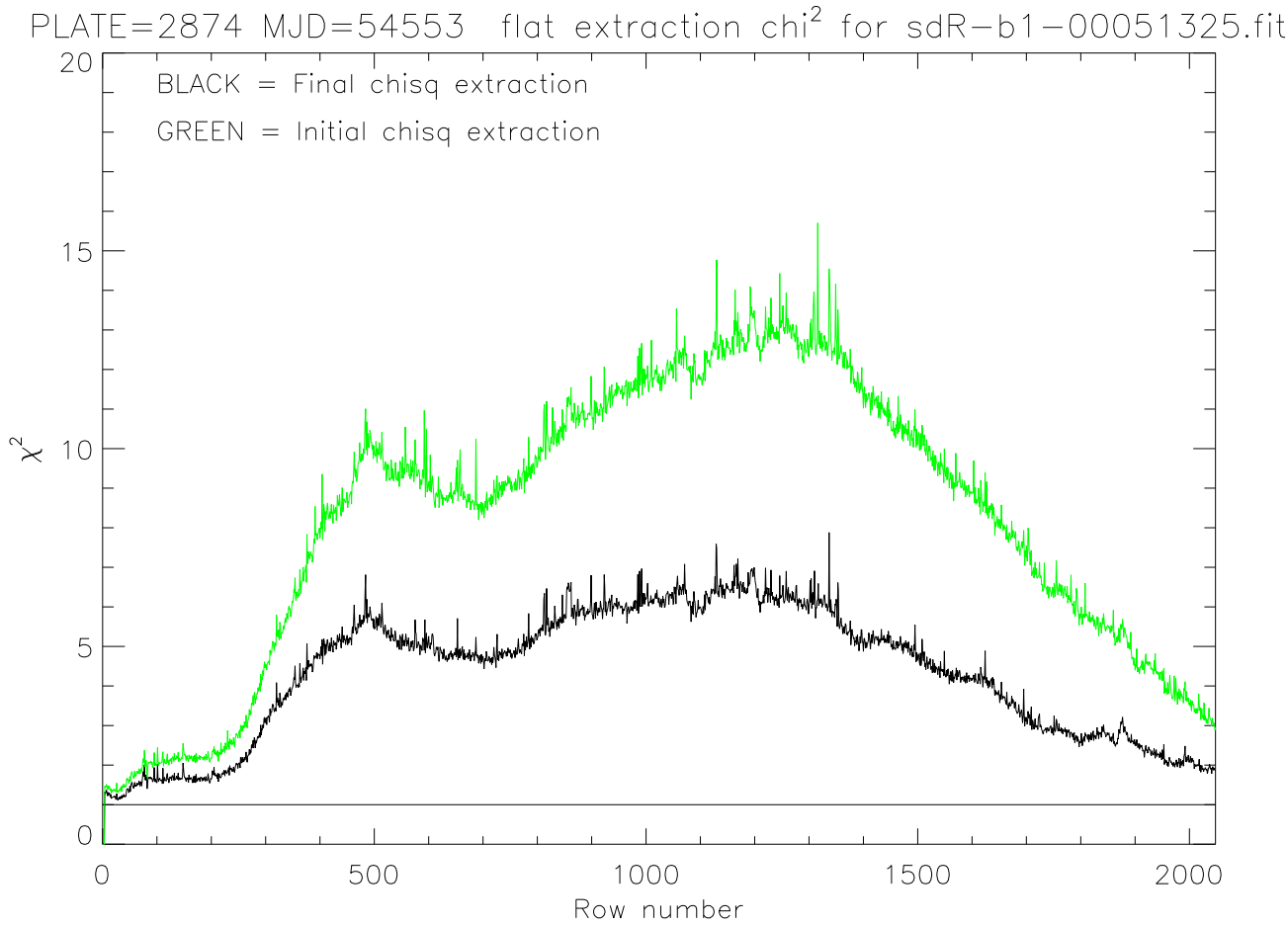
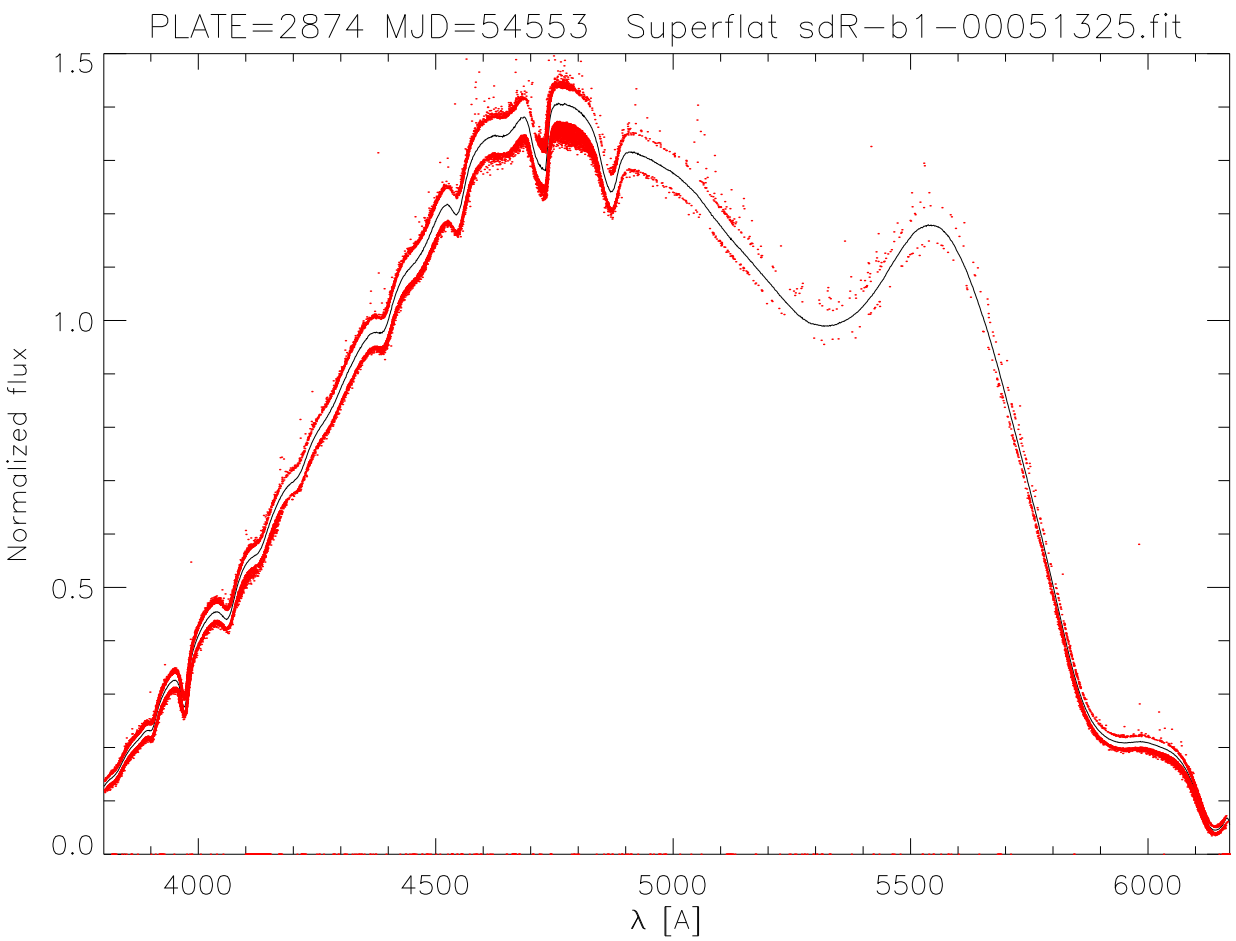

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

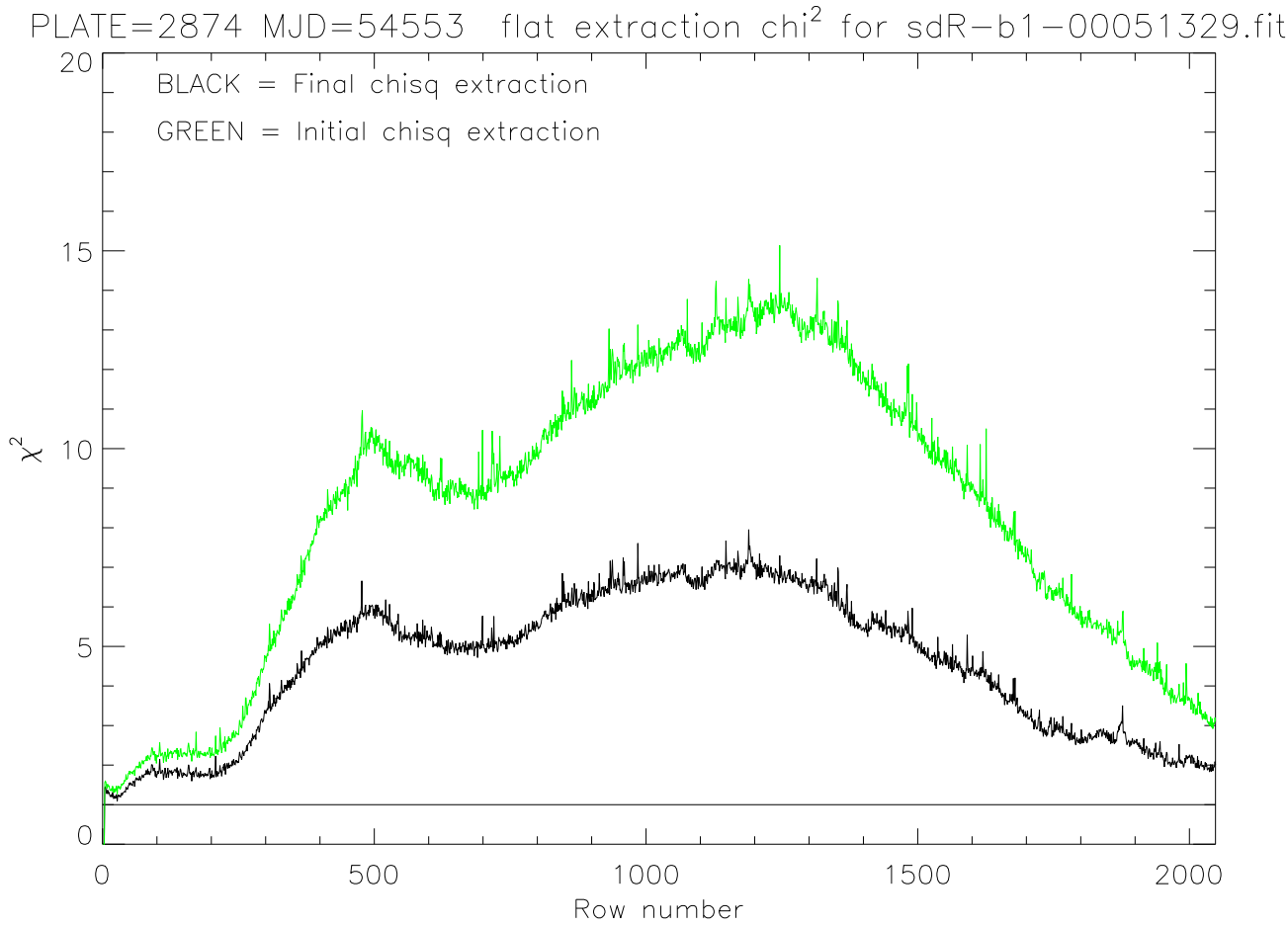

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

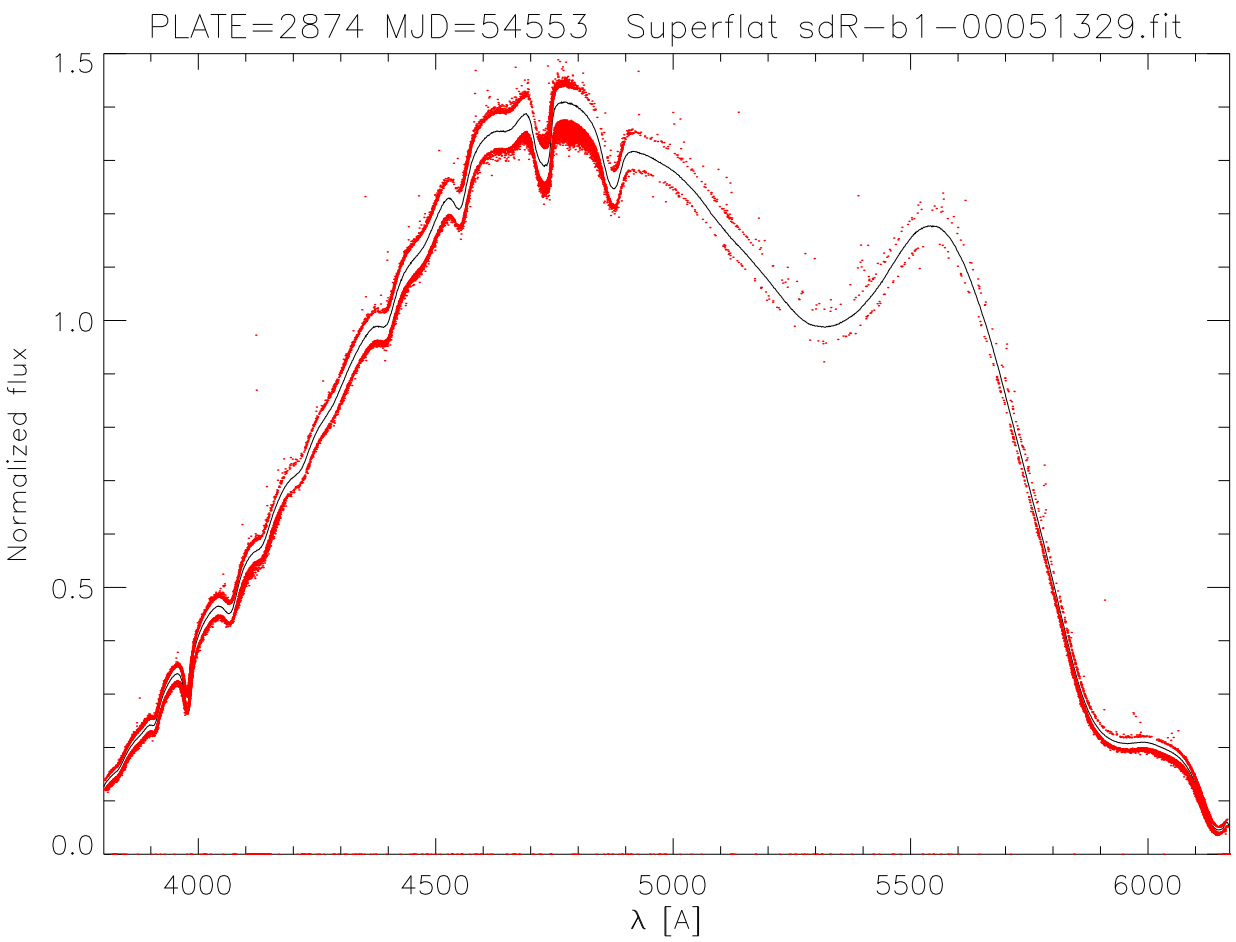

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

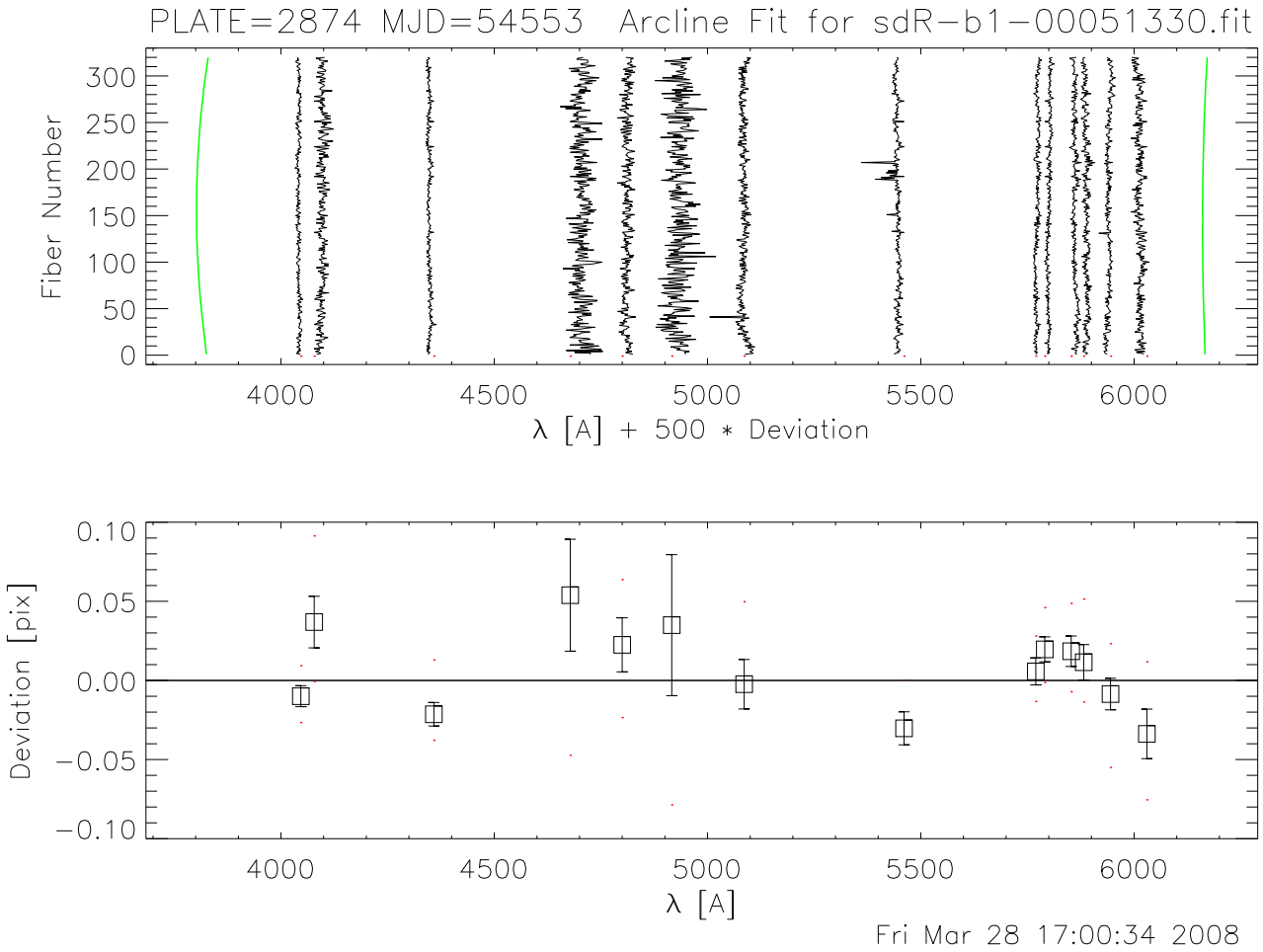

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

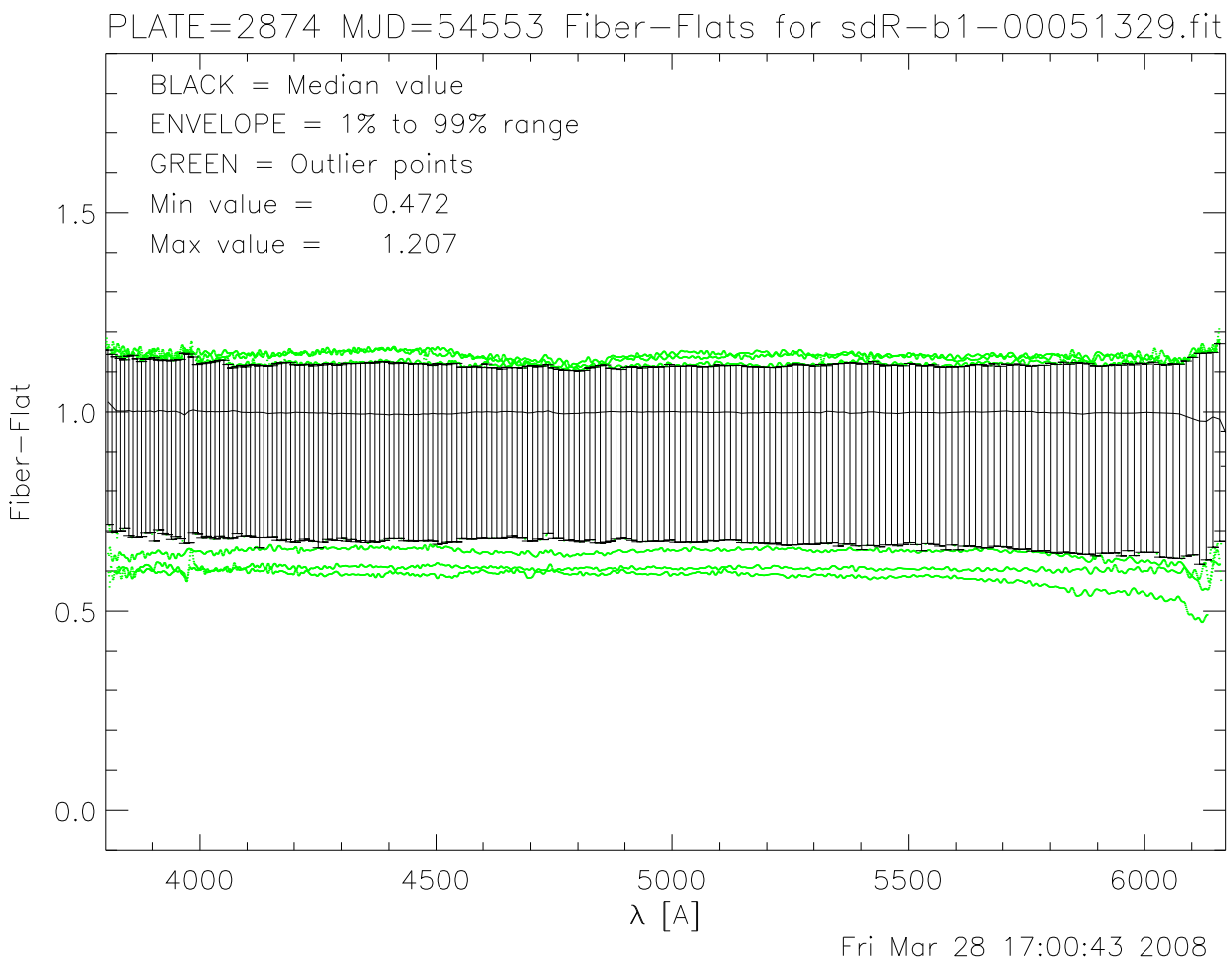

PLATE=2874 MJD=54553 flat extraction chi^2 for sdR−b1−00051325.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number

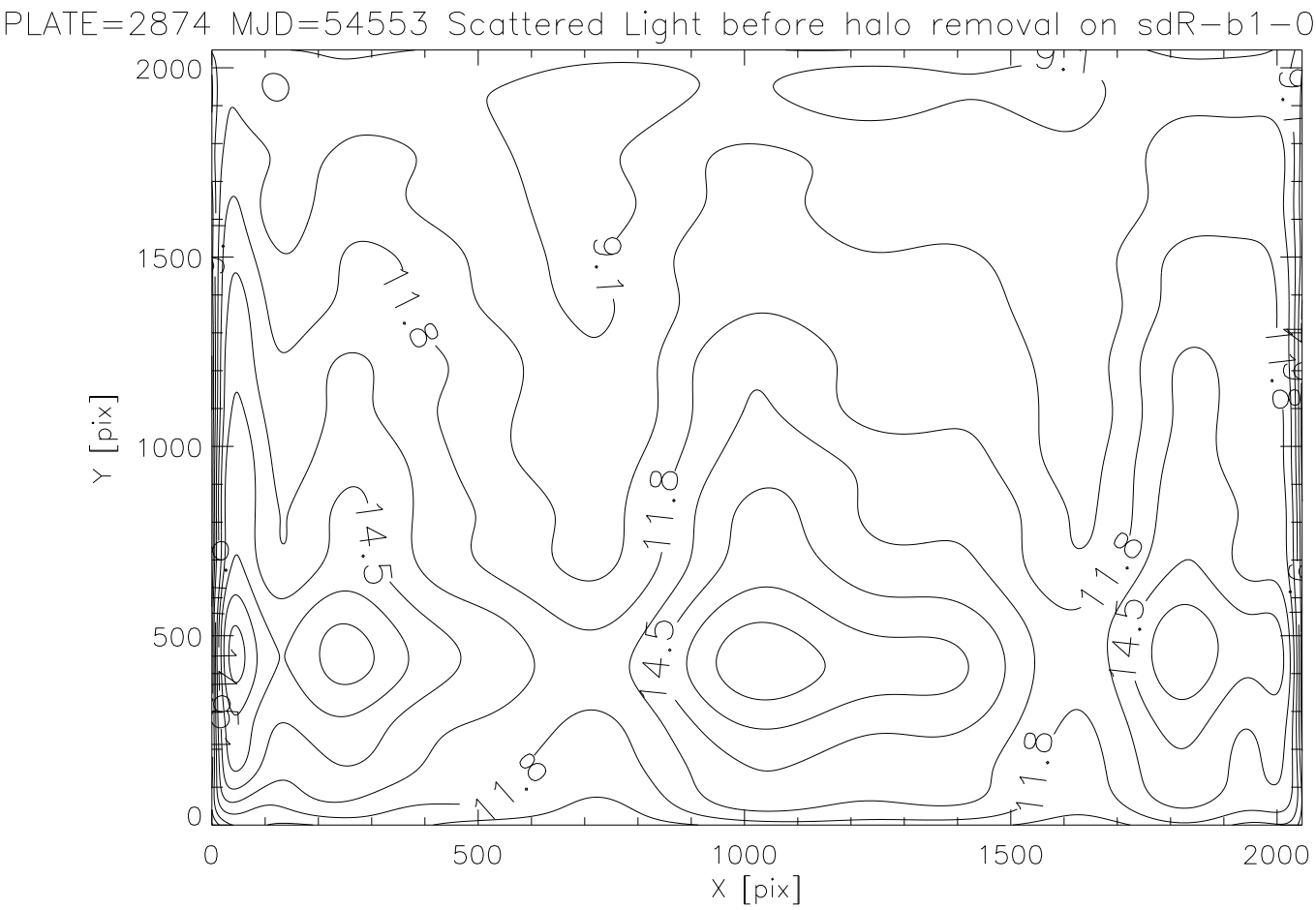

PLATE=2874 MJD=54553 Superflat sdR-b1-00051325.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

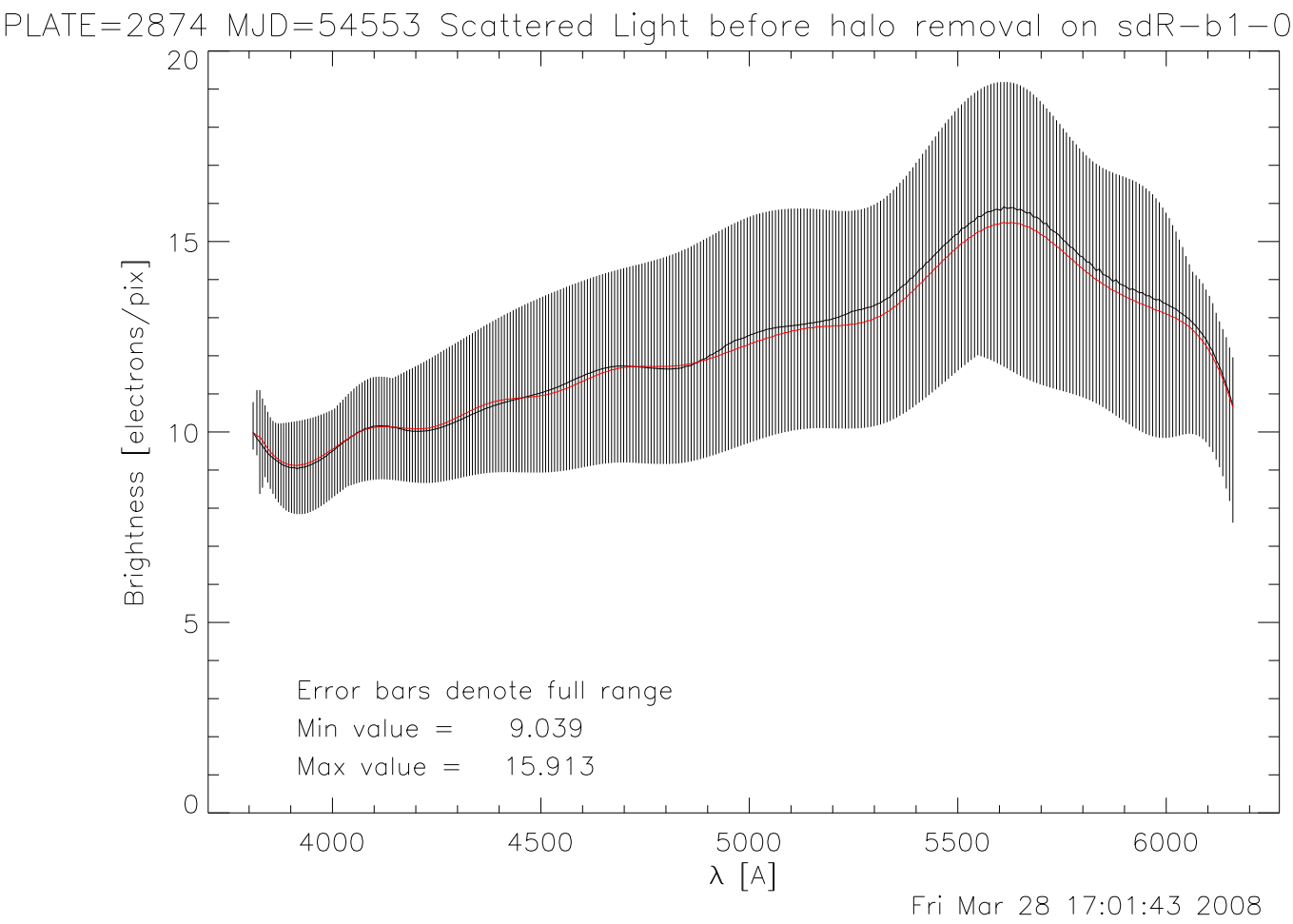

PLATE=2874 MJD=54553 flat extraction chi^2 for sdR−b1−00051329.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
20
0
500
1000
1500
2000

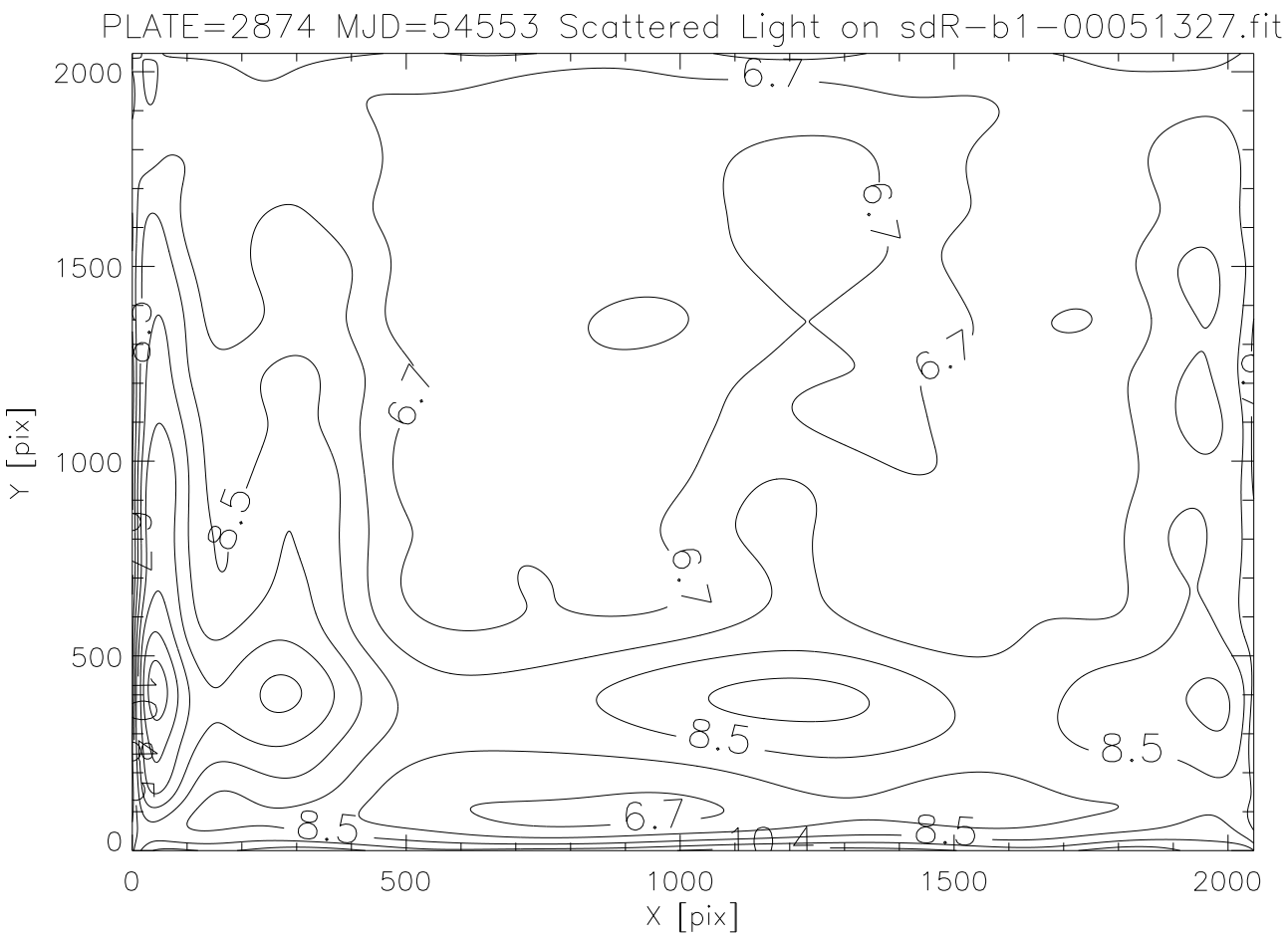

PLATE=2874 MJD=54553 Superflat sdR-b1-00051329.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

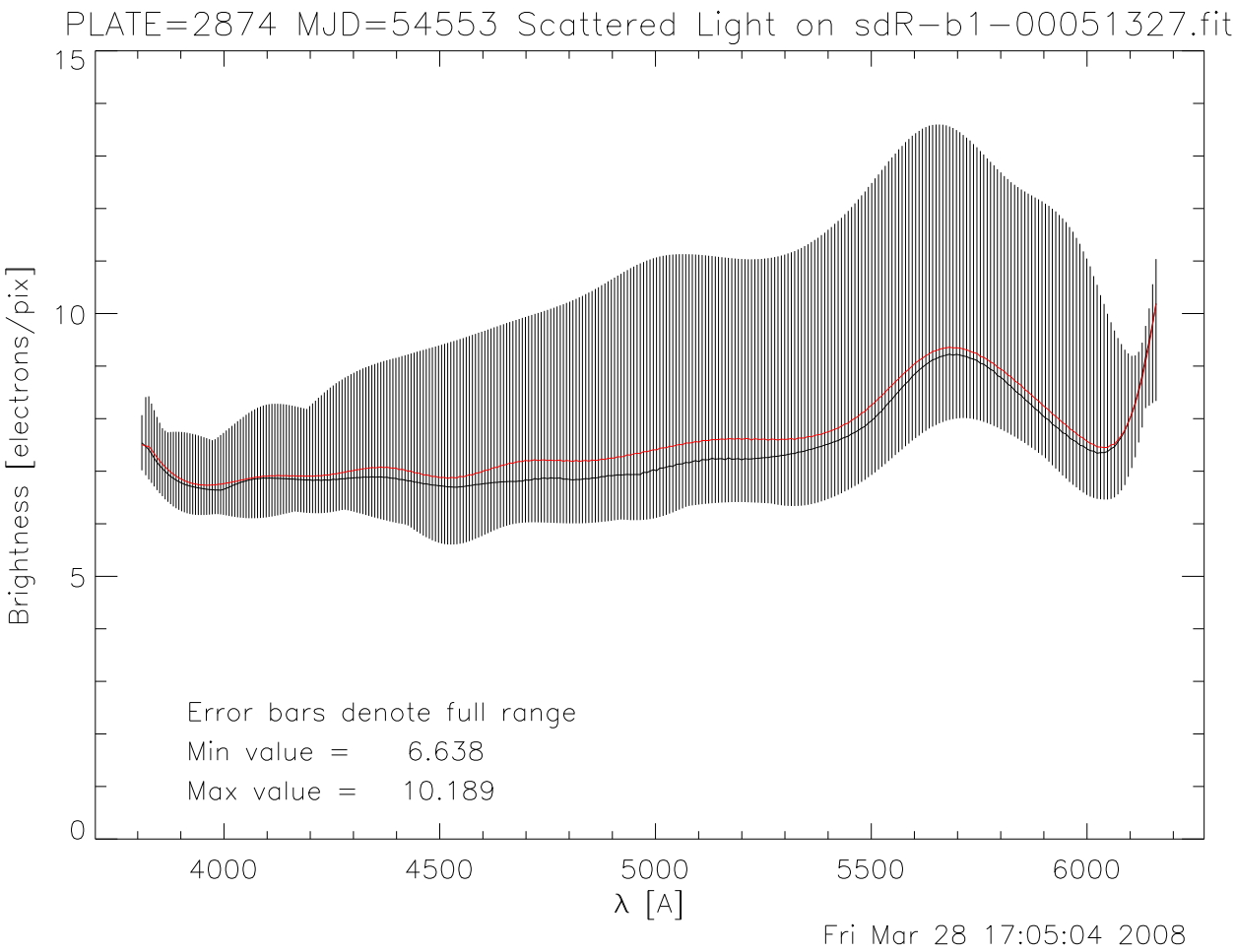

PLATE=2874 MJD=54553 Arcline Fit for sdR-b1-00051330.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Fri Mar 28 17:00:34 2008

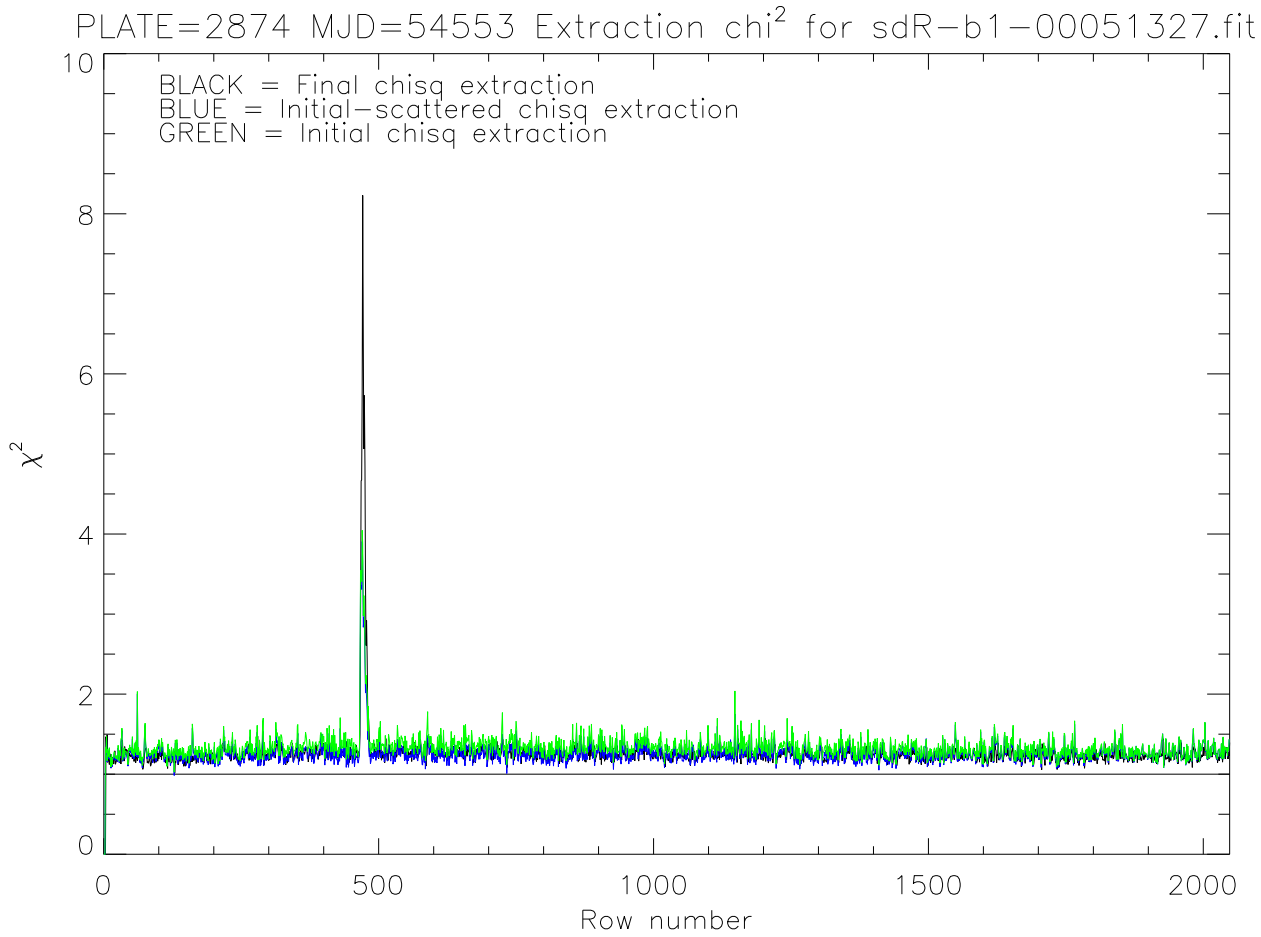

PLATE=2874 MJD=54553 Fiber-Flats for sdR-b1-00051329.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.472
Max value = 1.207
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Fri Mar 28 17:00:43 2008

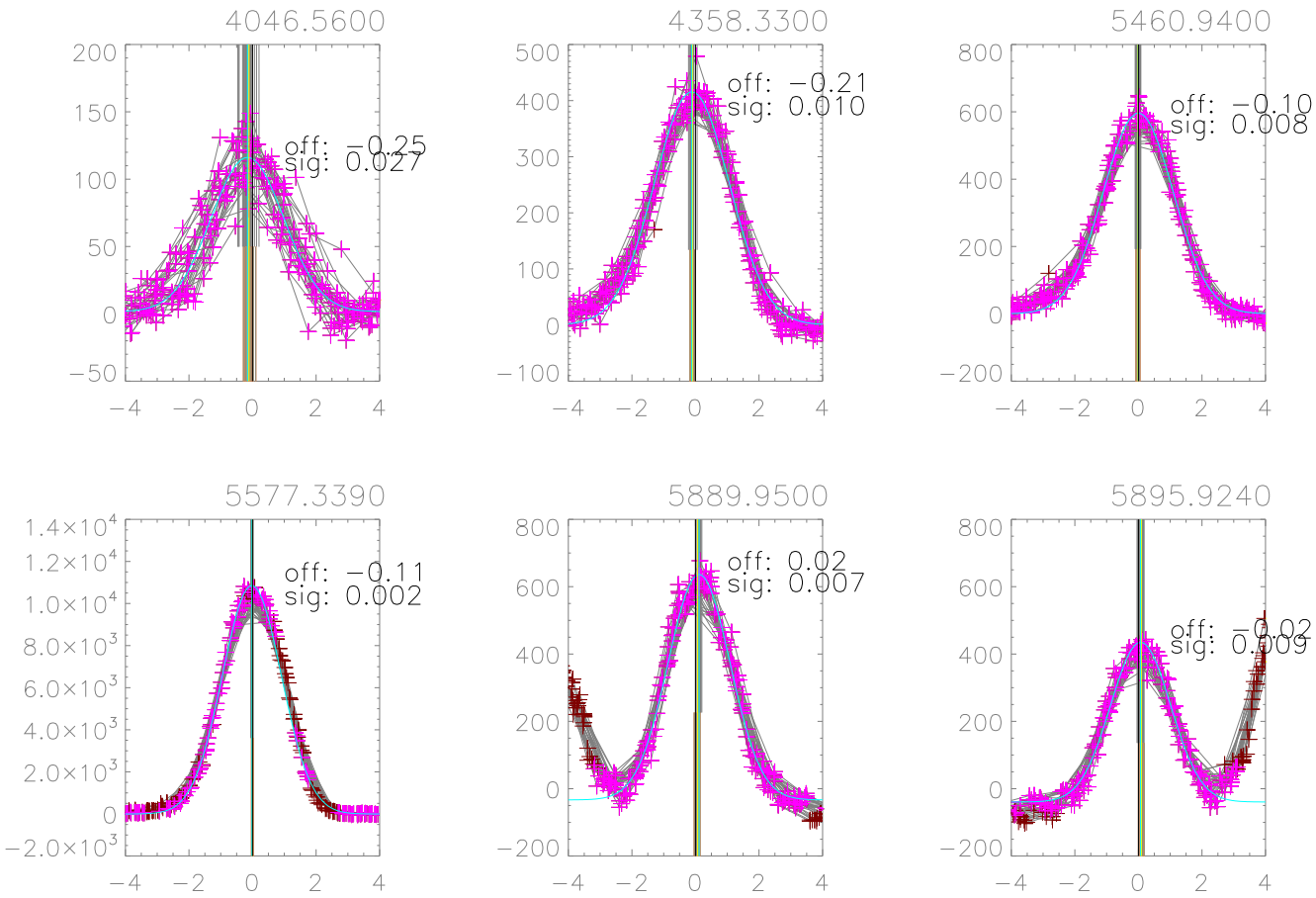

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR−b1−00051327.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
9.1
11.8
14.5

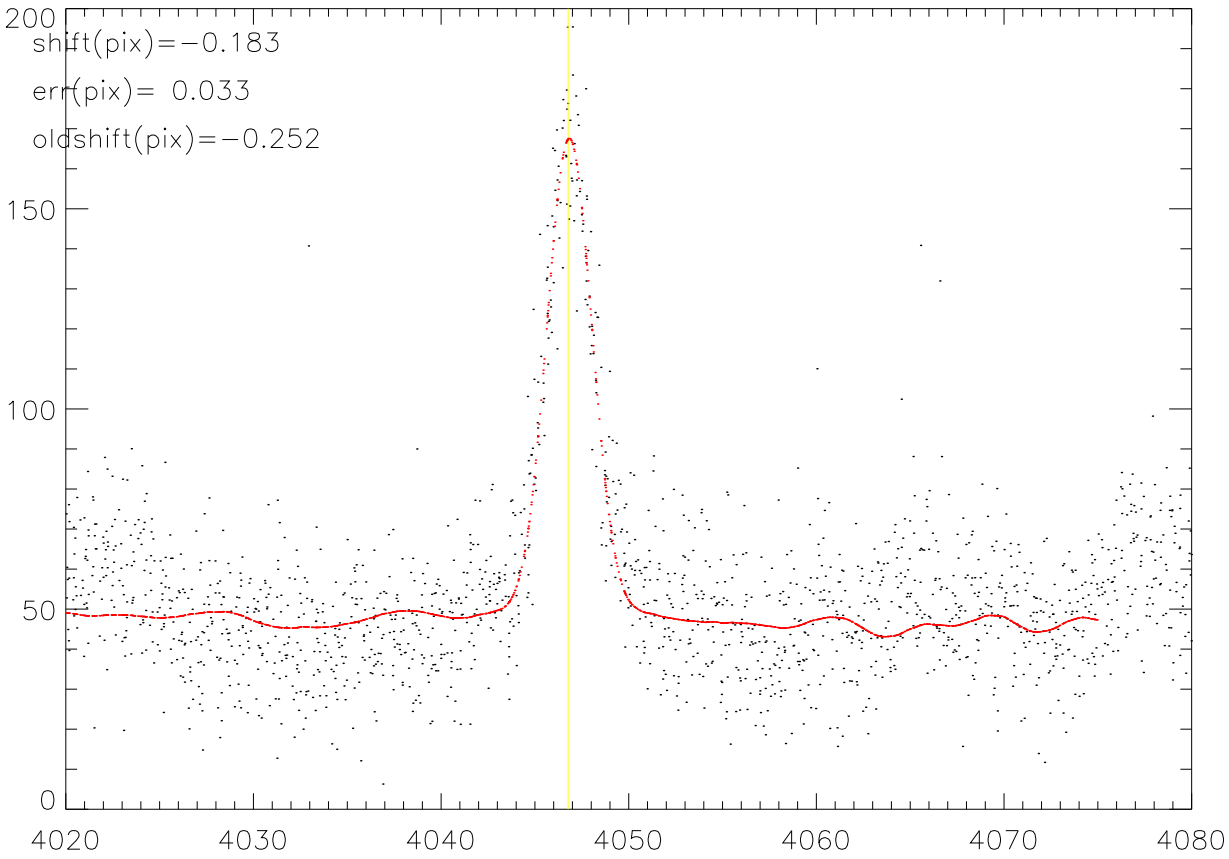

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR-b1-00051327.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 9.039
Max value = 15.913
4000
4500
5000
5500
6000
λ [A]
Fri Mar 28 17:01:43 2008

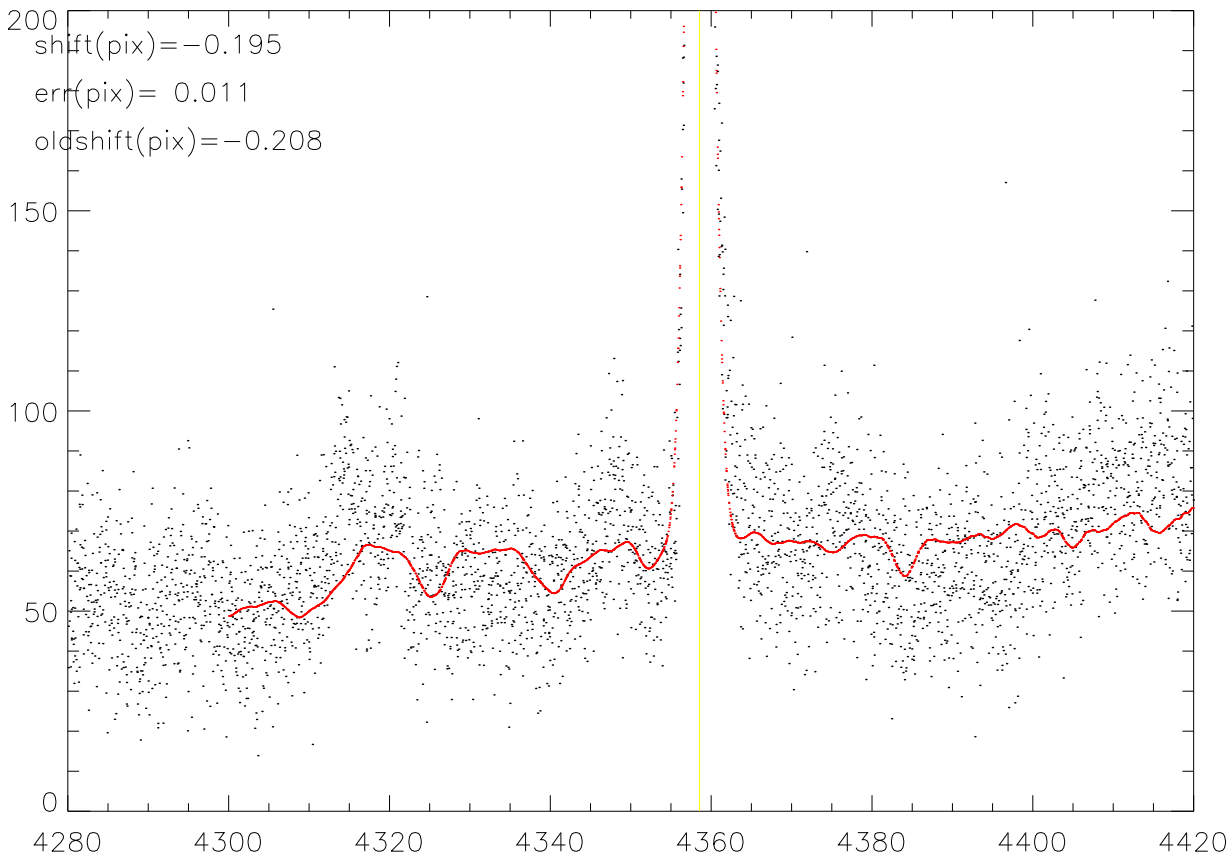

PLATE=2874 MJD=54553 Scattered Light on sdR-b1-00051327.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.7
8.5
10.4

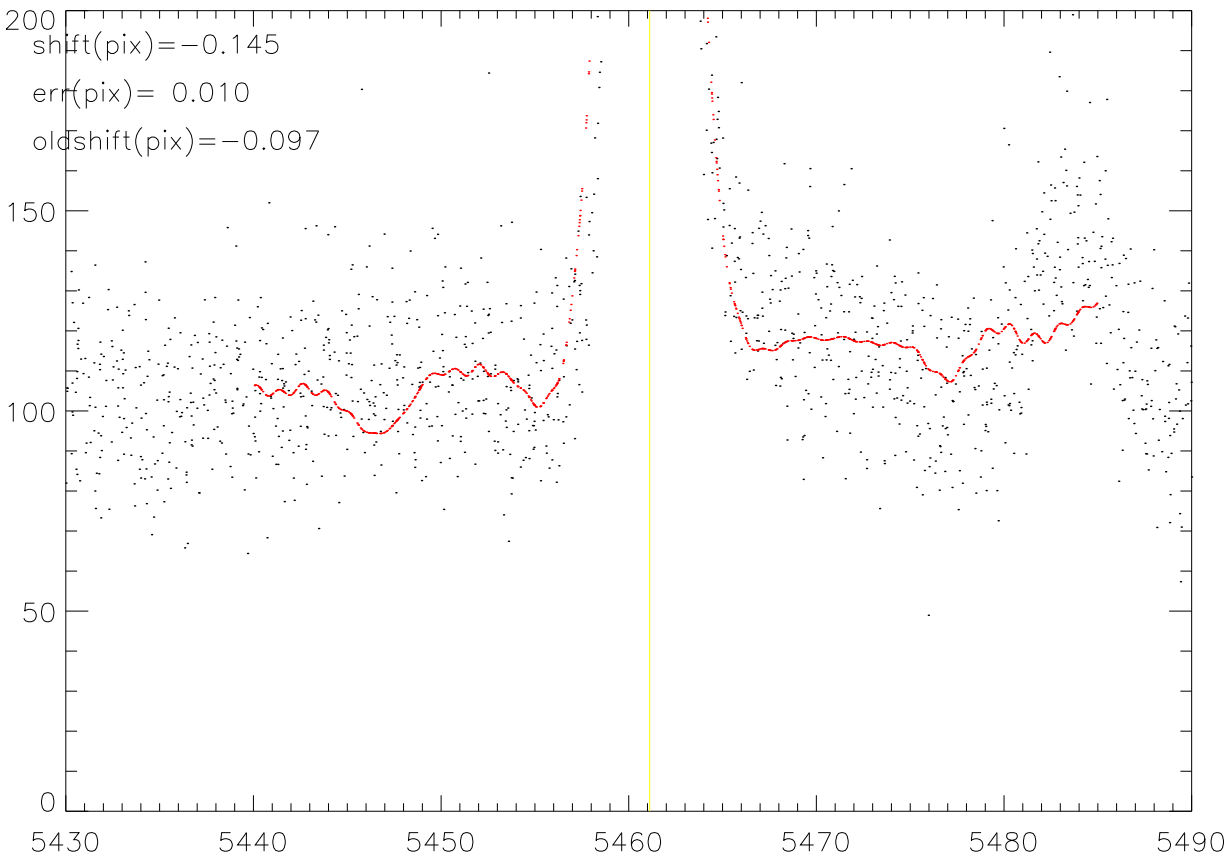

PLATE=2874 MJD=54553 Scattered Light on sdR-b1-00051327.fit
Brightness [electrons/pix]
15
10
5
0
Error bars denote full range
Min value = 6.638
Max value = 10.189
4000
4500
5000
5500
6000
λ [A]
Fri Mar 28 17:05:04 2008

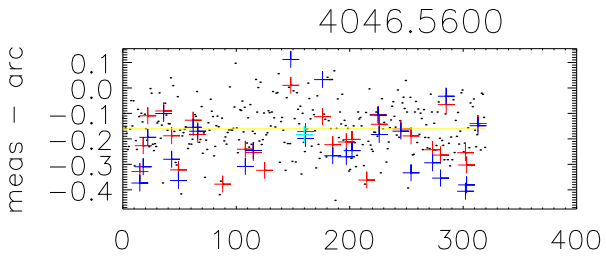

PLATE=2874 MJD=54553 Extraction chi^2 for sdR-b1-00051327.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

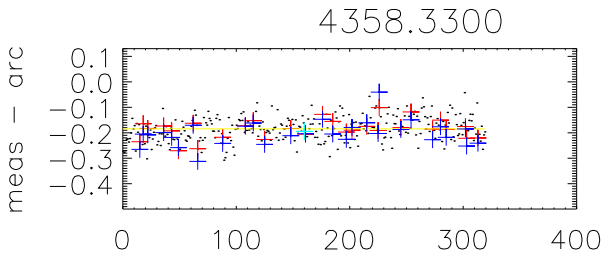

4046.5600
off: −0.25
sig: 0.027
4358.3300
off: −0.21
sig: 0.010
5460.9400
off: −0.10
sig: 0.008
5577.3390
off: −0.11
sig: 0.002
5889.9500
off: 0.02
sig: 0.007
5895.9240
off: −0.02
sig: 0.009

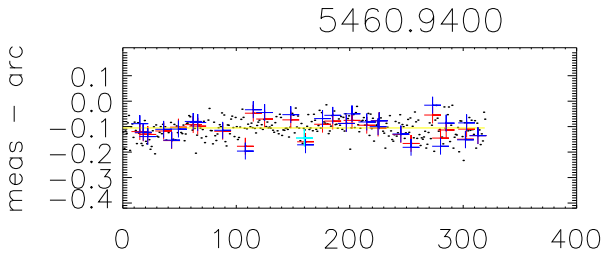

shift(pix)=−0.183
err(pix)= 0.033
oldshift(pix)=−0.252
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

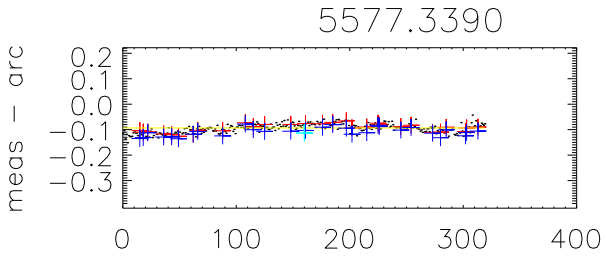

shift(pix)=−0.195
err(pix)= 0.011
oldshift(pix)=−0.208
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

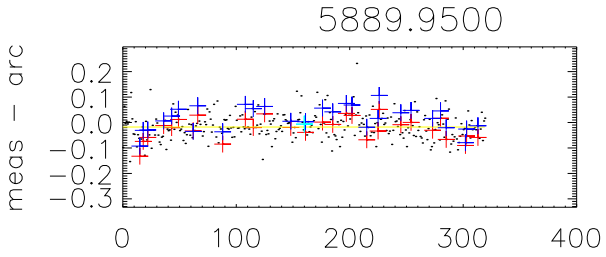

shift(pix)=−0.145
err(pix)= 0.010
oldshift(pix)=−0.097
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

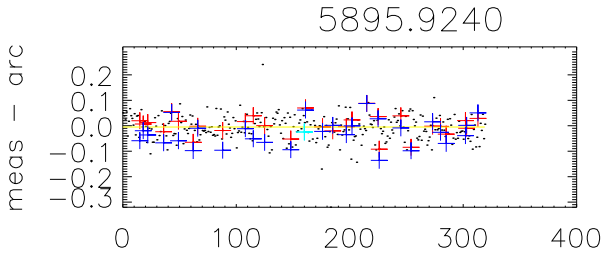

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

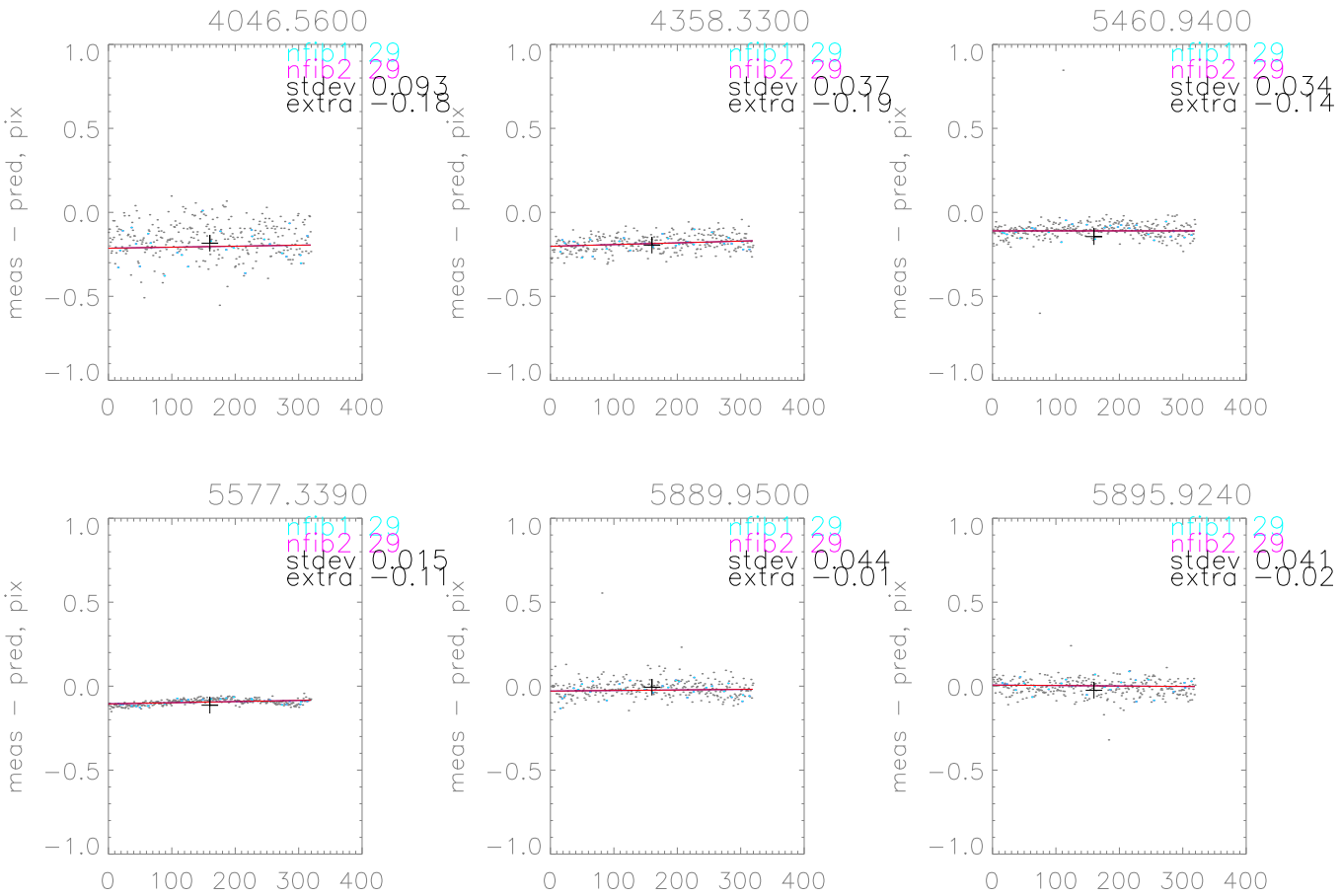

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

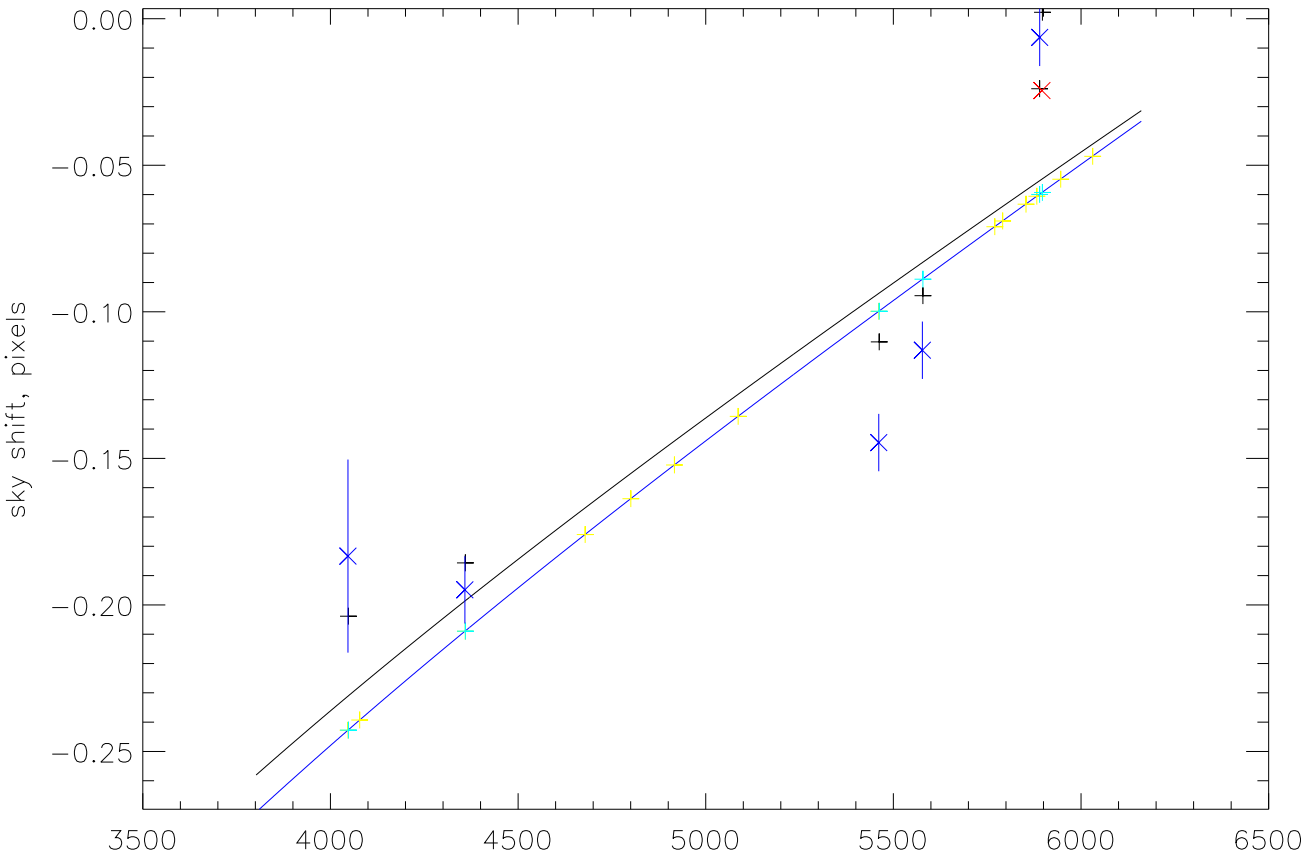

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

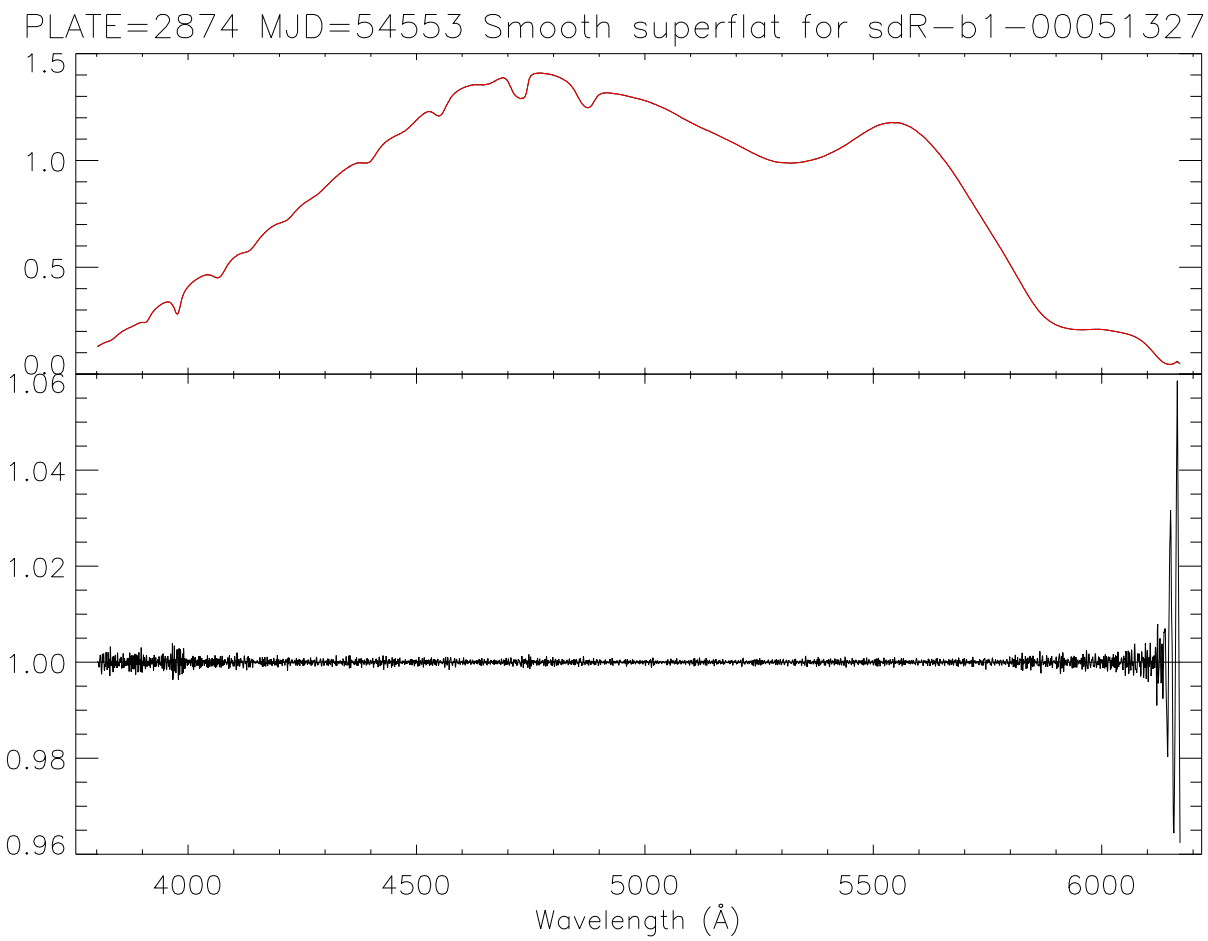

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

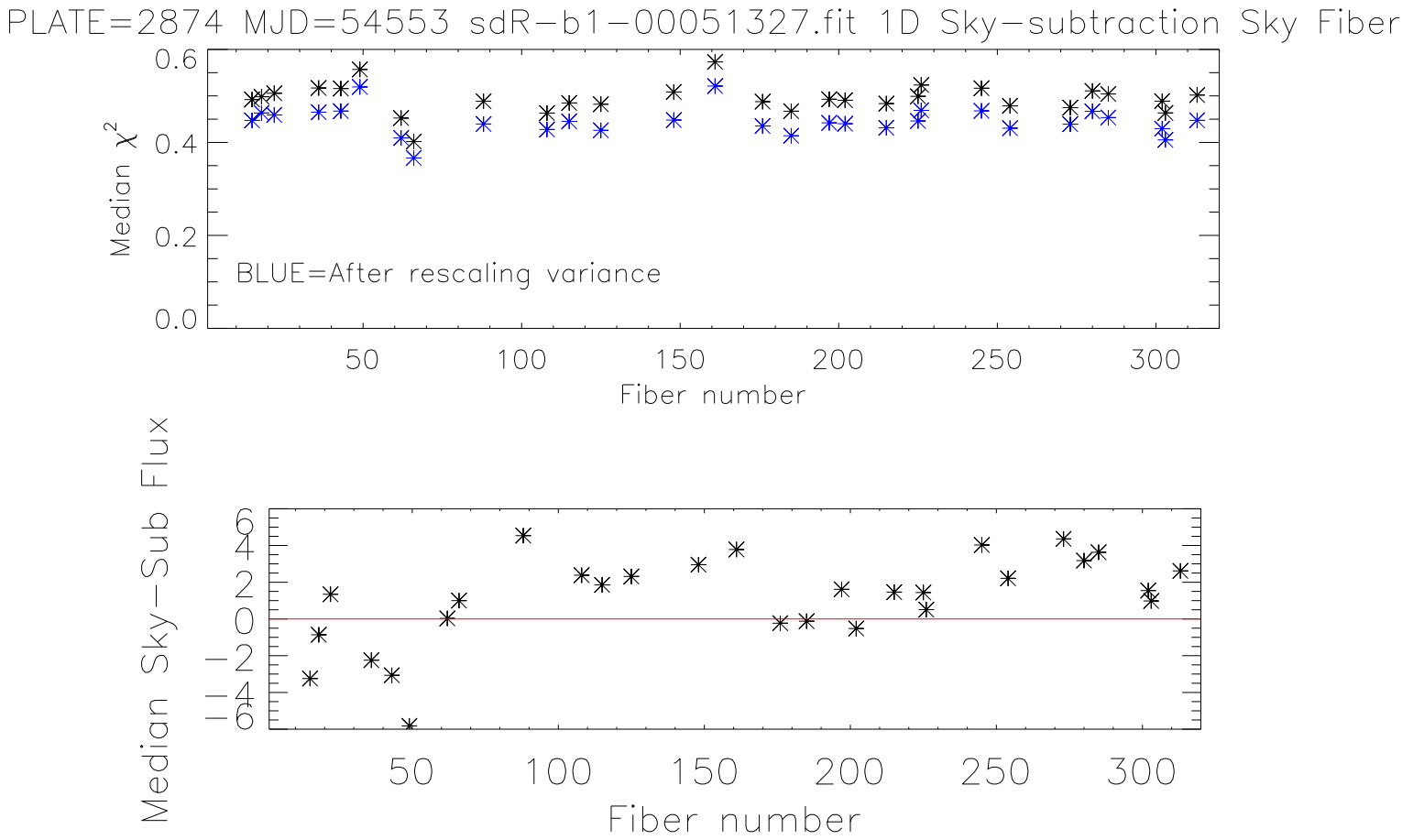

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

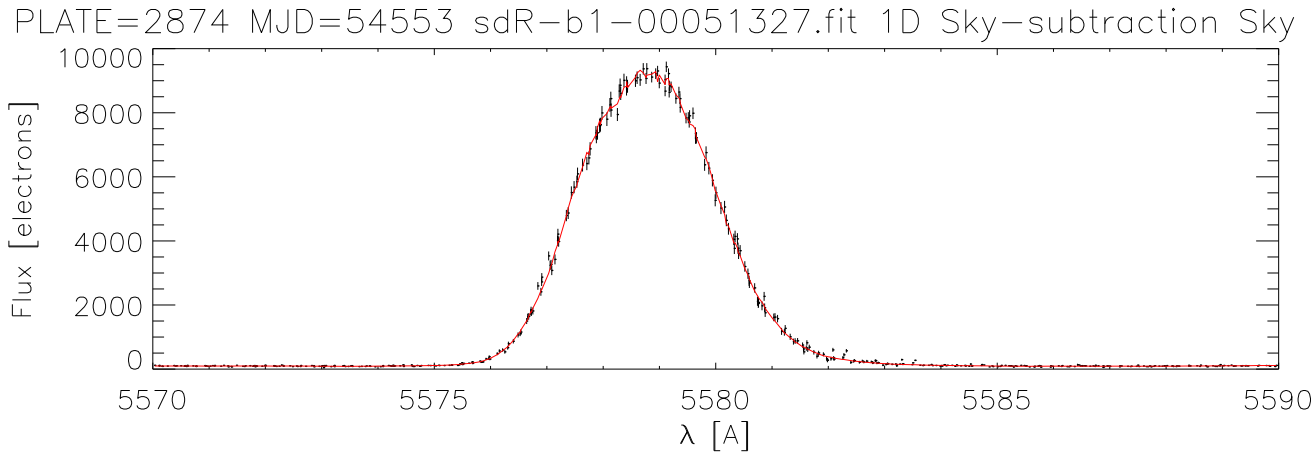

4046.5600
nfib1 29
nfib2 29
stdev 0.093
extra −0.18
4358.3300
nfib1 29
nfib2 29
stdev 0.037
extra −0.19
5460.9400
nfib1 29
nfib2 29
stdev 0.034
extra −0.14
5577.3390
nfib1 29
nfib2 29
stdev 0.015
extra −0.11
5889.9500
nfib1 29
nfib2 29
stdev 0.044
extra −0.01
5895.9240
nfib1 29
nfib2 29
stdev 0.041
extra −0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

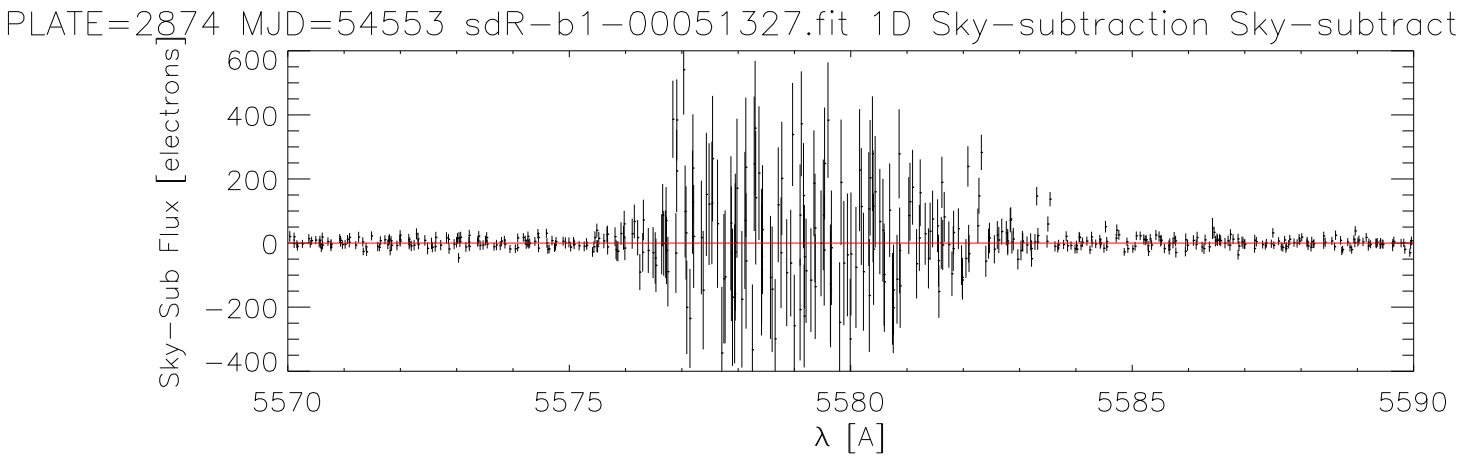

0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

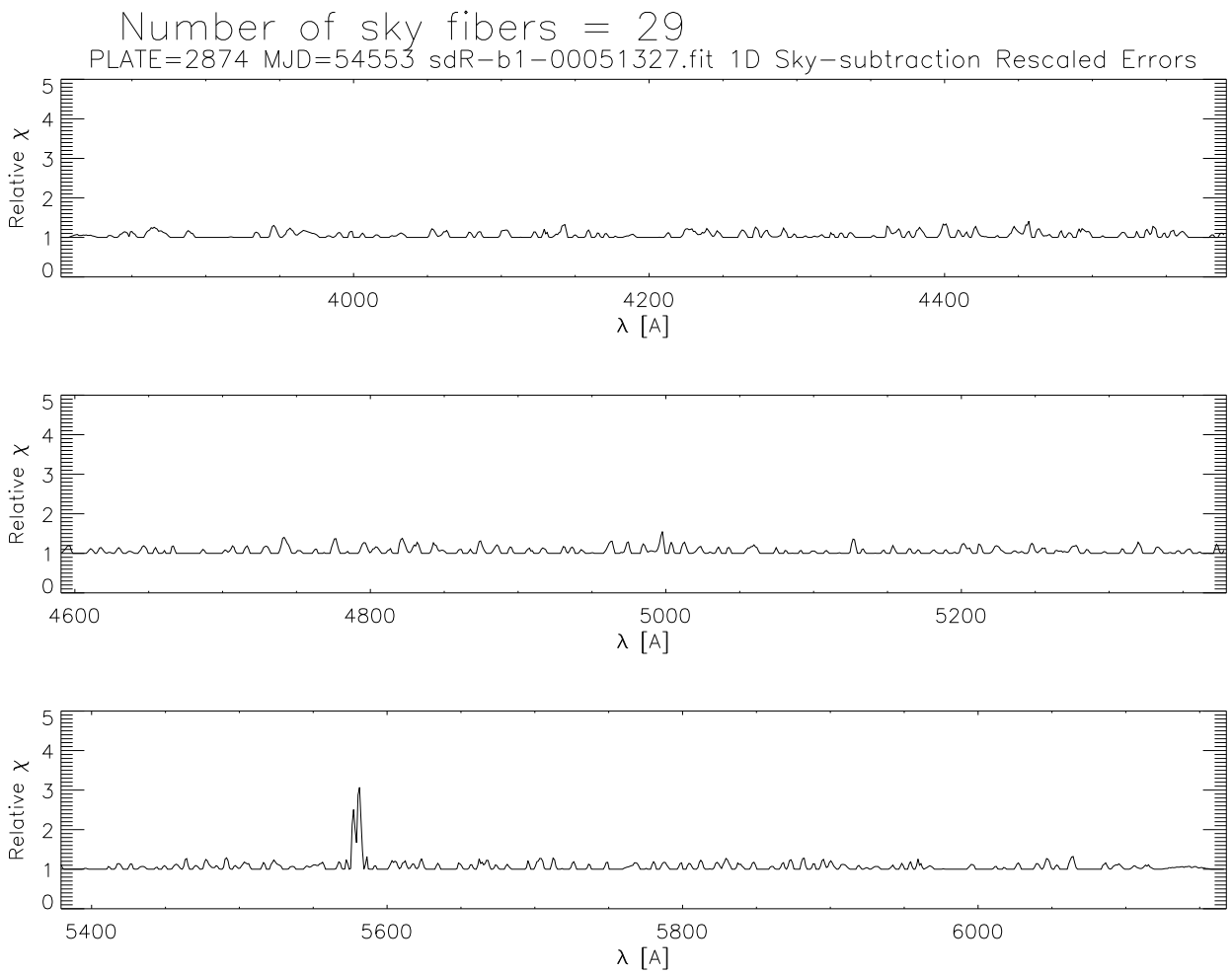
es= −0.0002

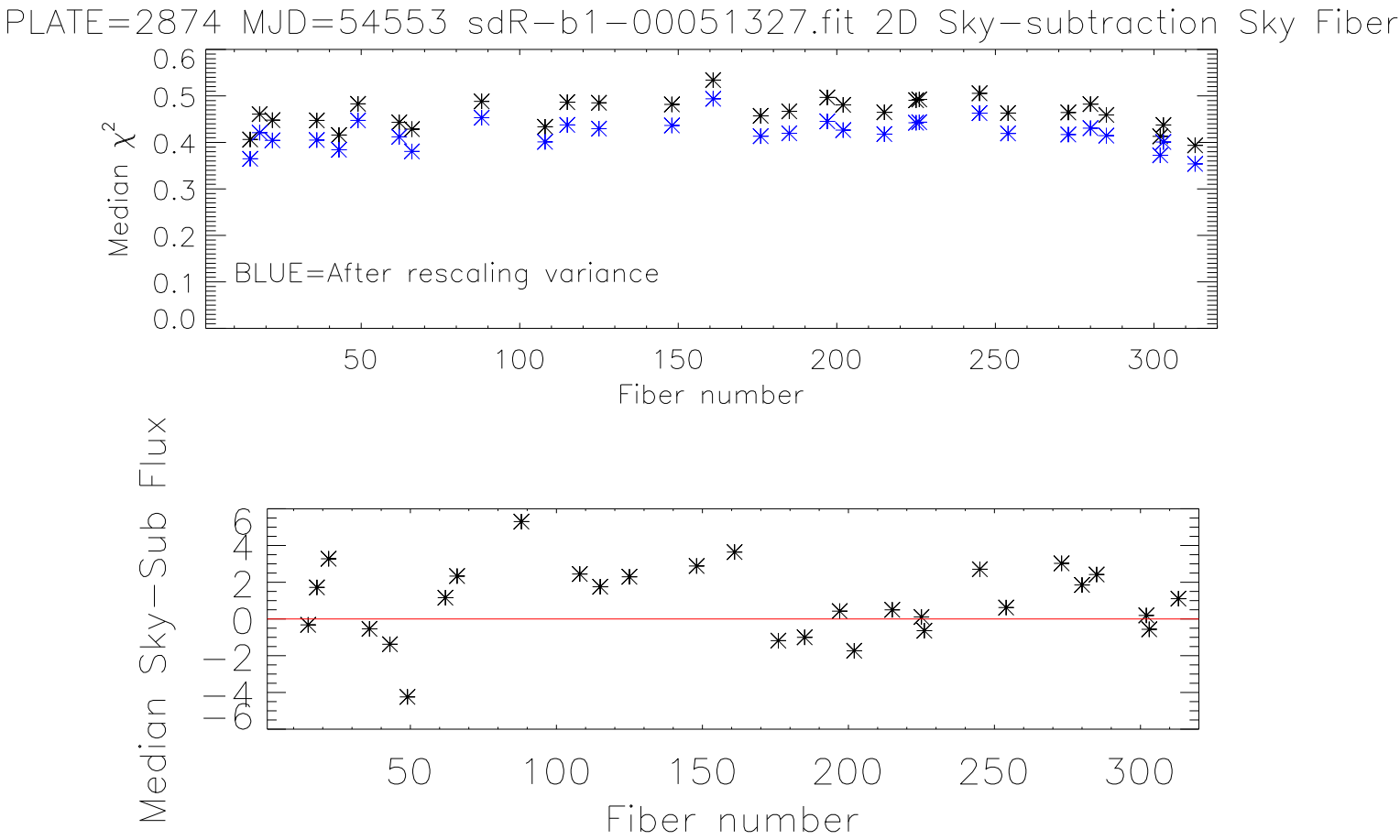

PLATE=2874 MJD=54553 Smooth superflat for sdR−b1−00051327.fit
1.5
1.0
0.5
0.0
1.06
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

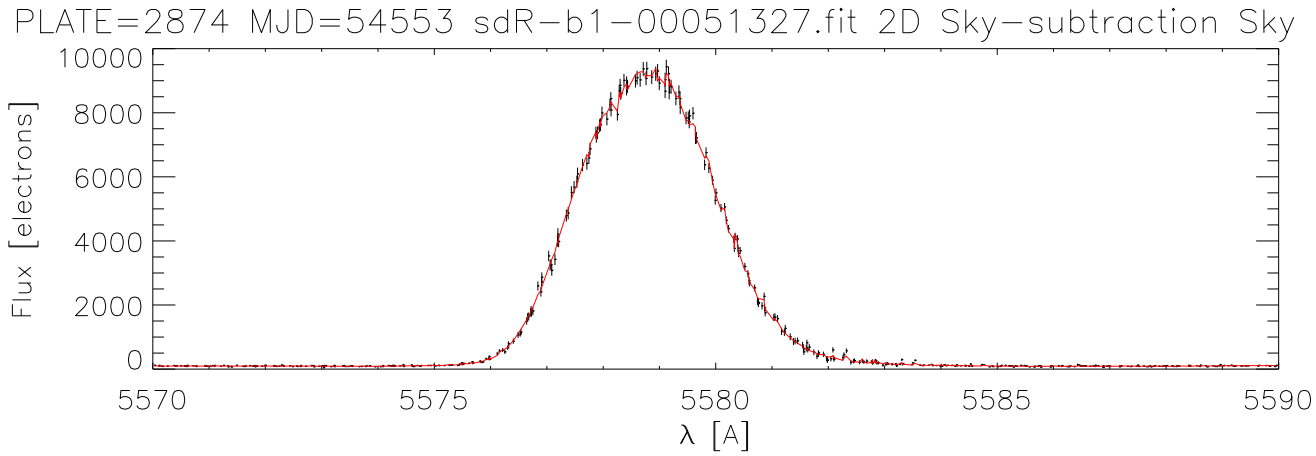

PLATE=2874 MJD=54553 sdR-b1-00051327.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

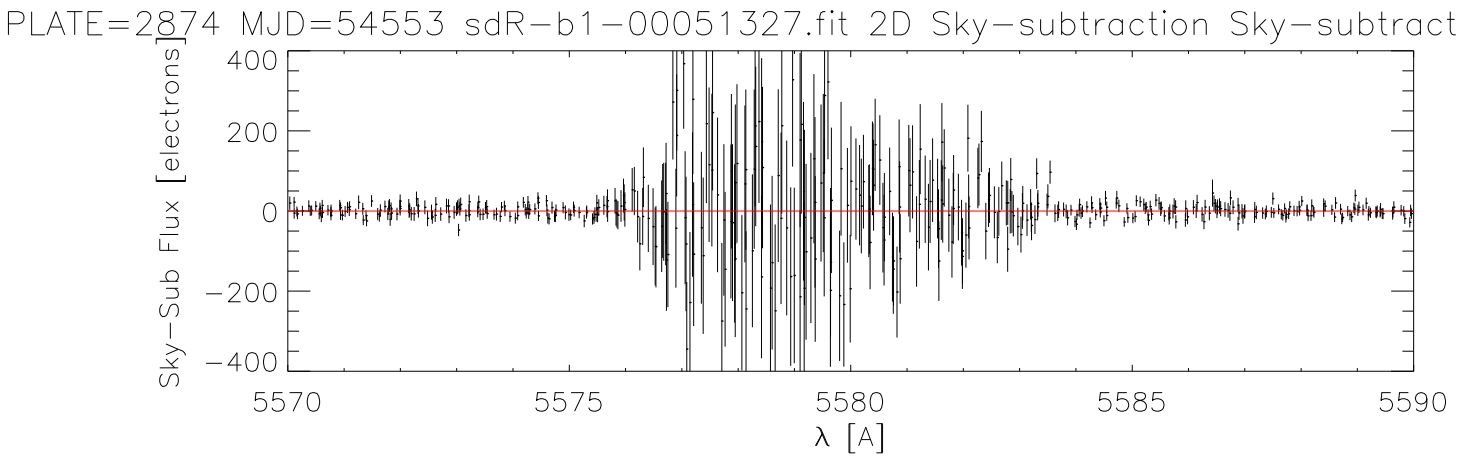

PLATE=2874 MJD=54553 sdR-b1-00051327.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

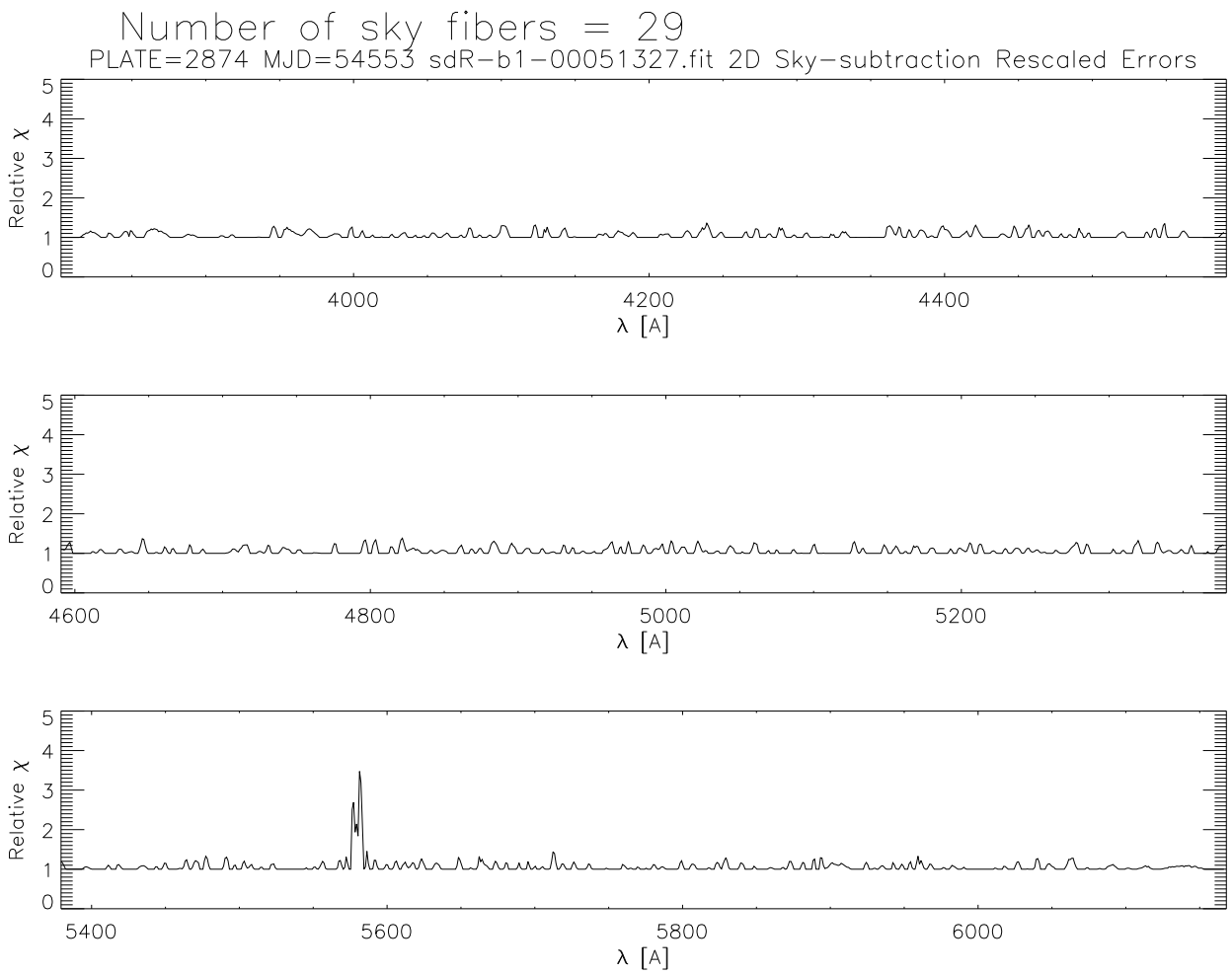

PLATE=2874 MJD=54553 sdR-b1-00051327.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]

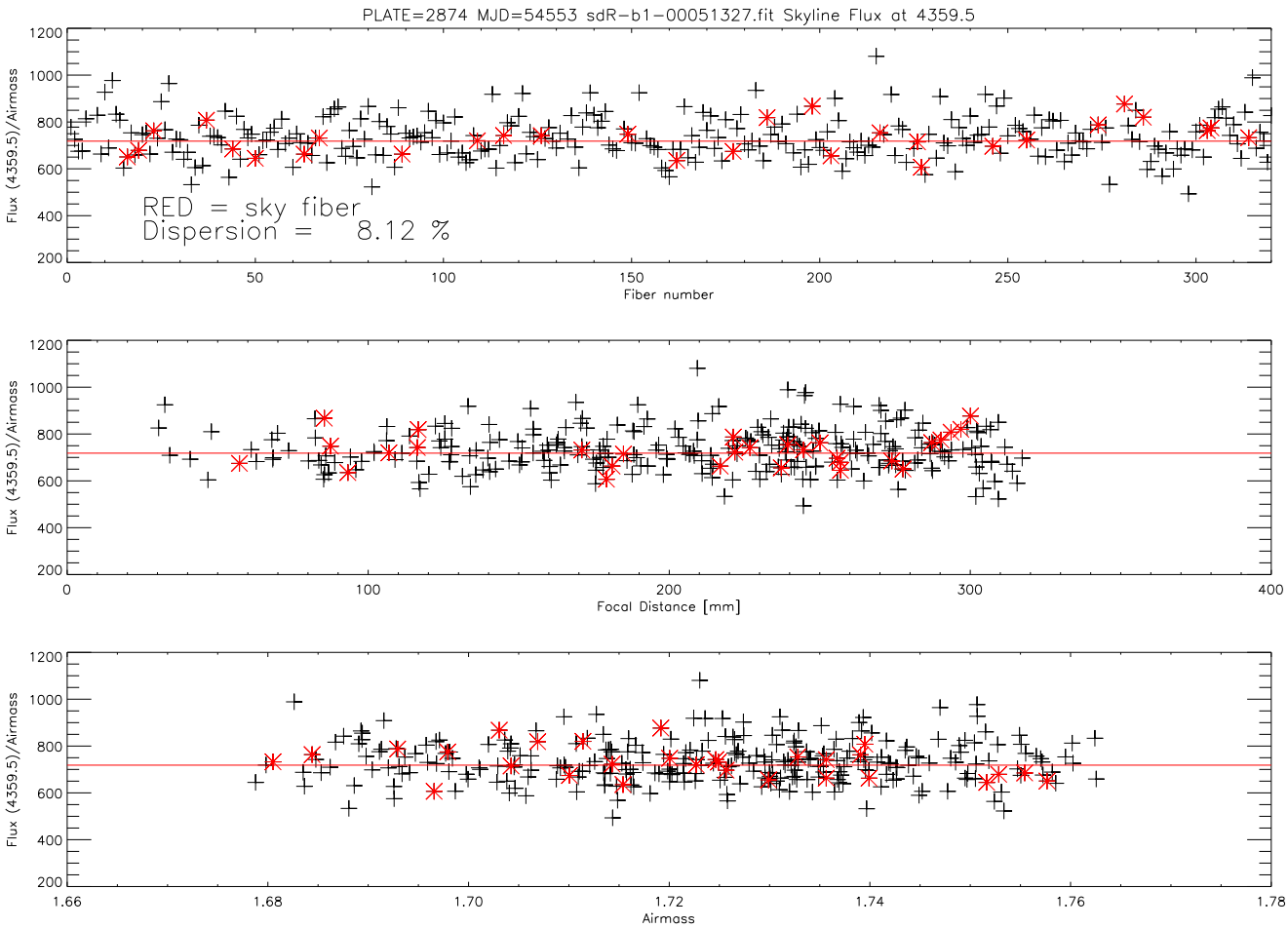

Number of sky fibers = 29
PLATE=2874 MJD=54553 sdR-b1-00051327.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

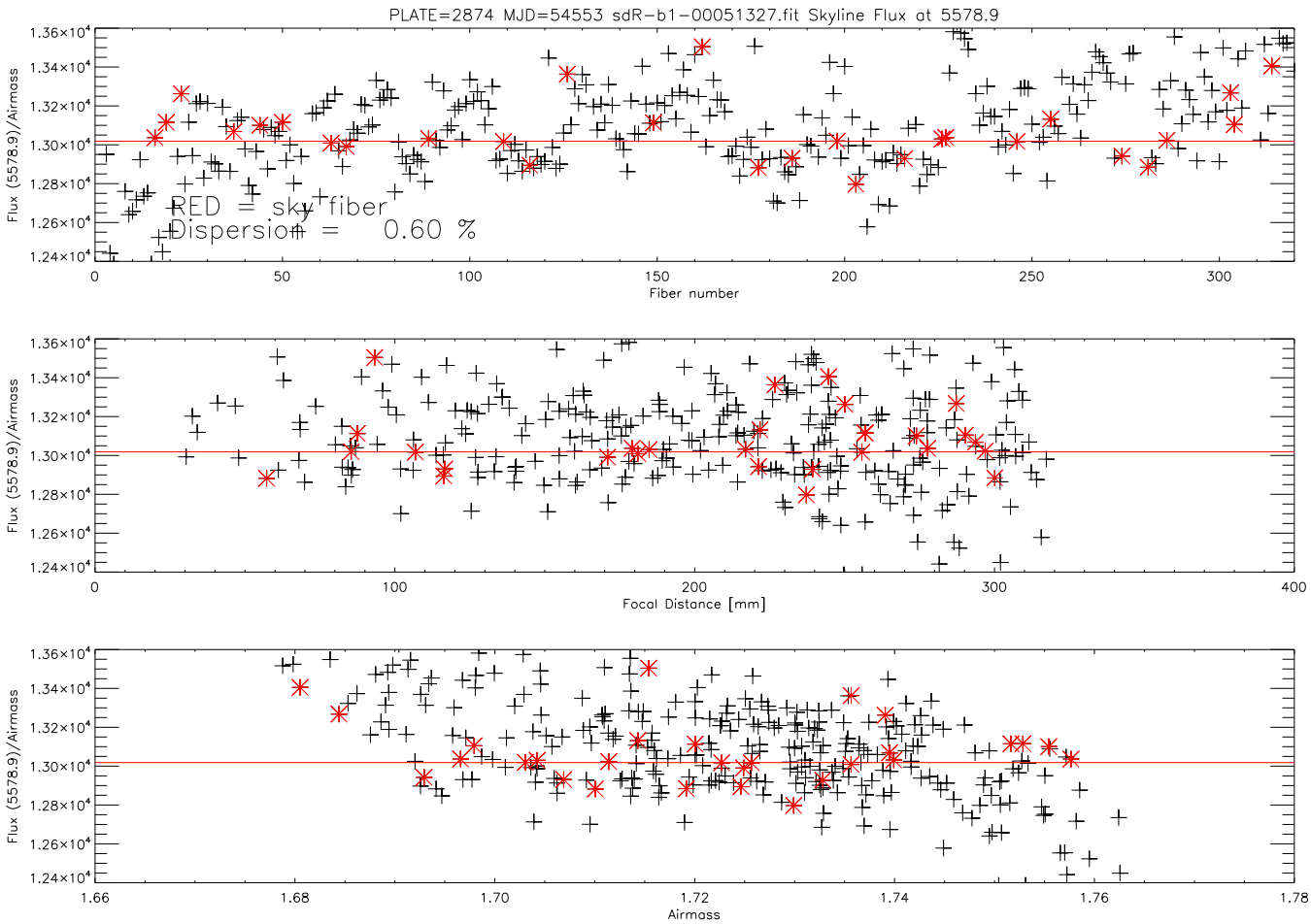

PLATE=2874 MJD=54553 sdR-b1-00051327.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

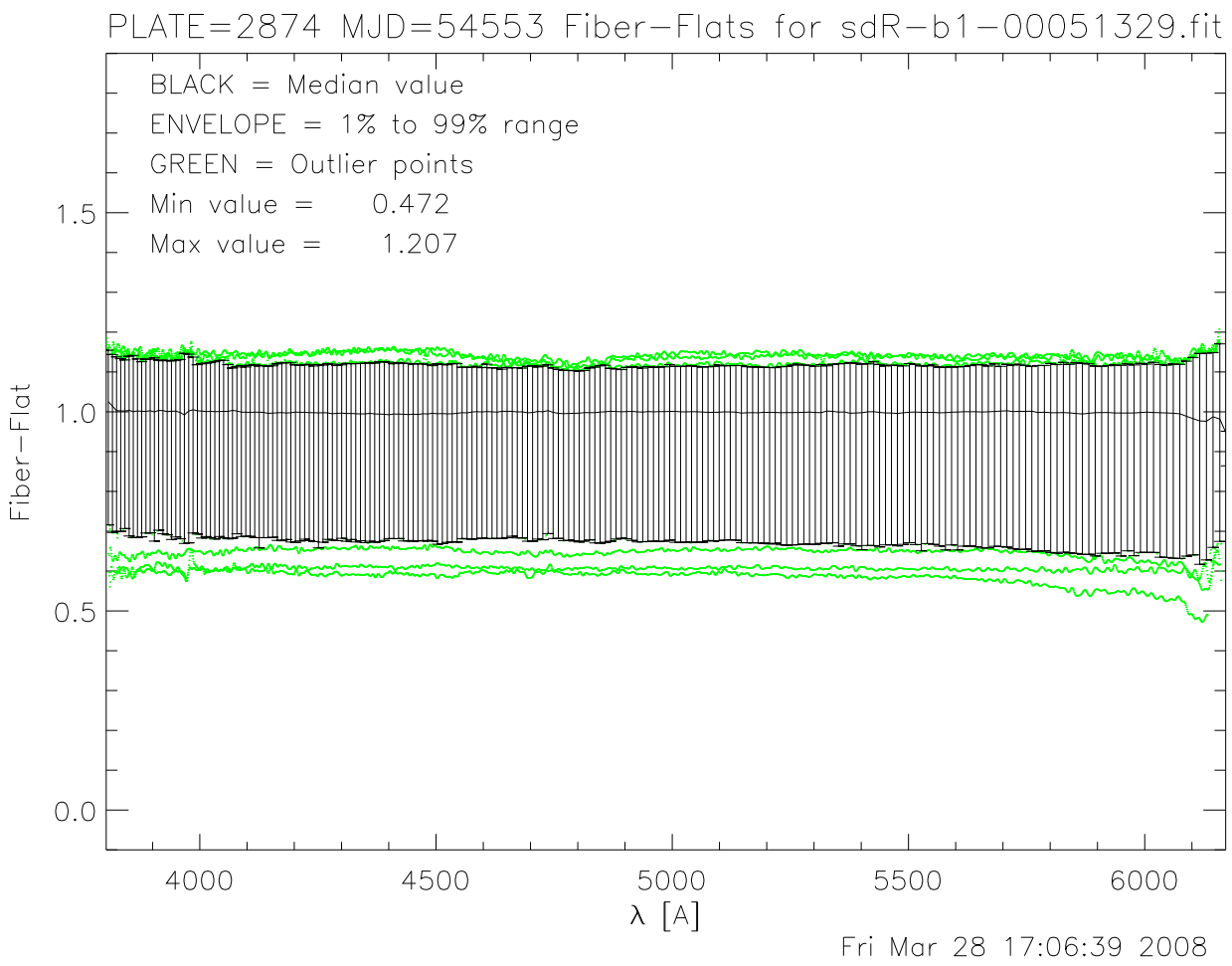

PLATE=2874 MJD=54553 sdR-b1-00051327.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]

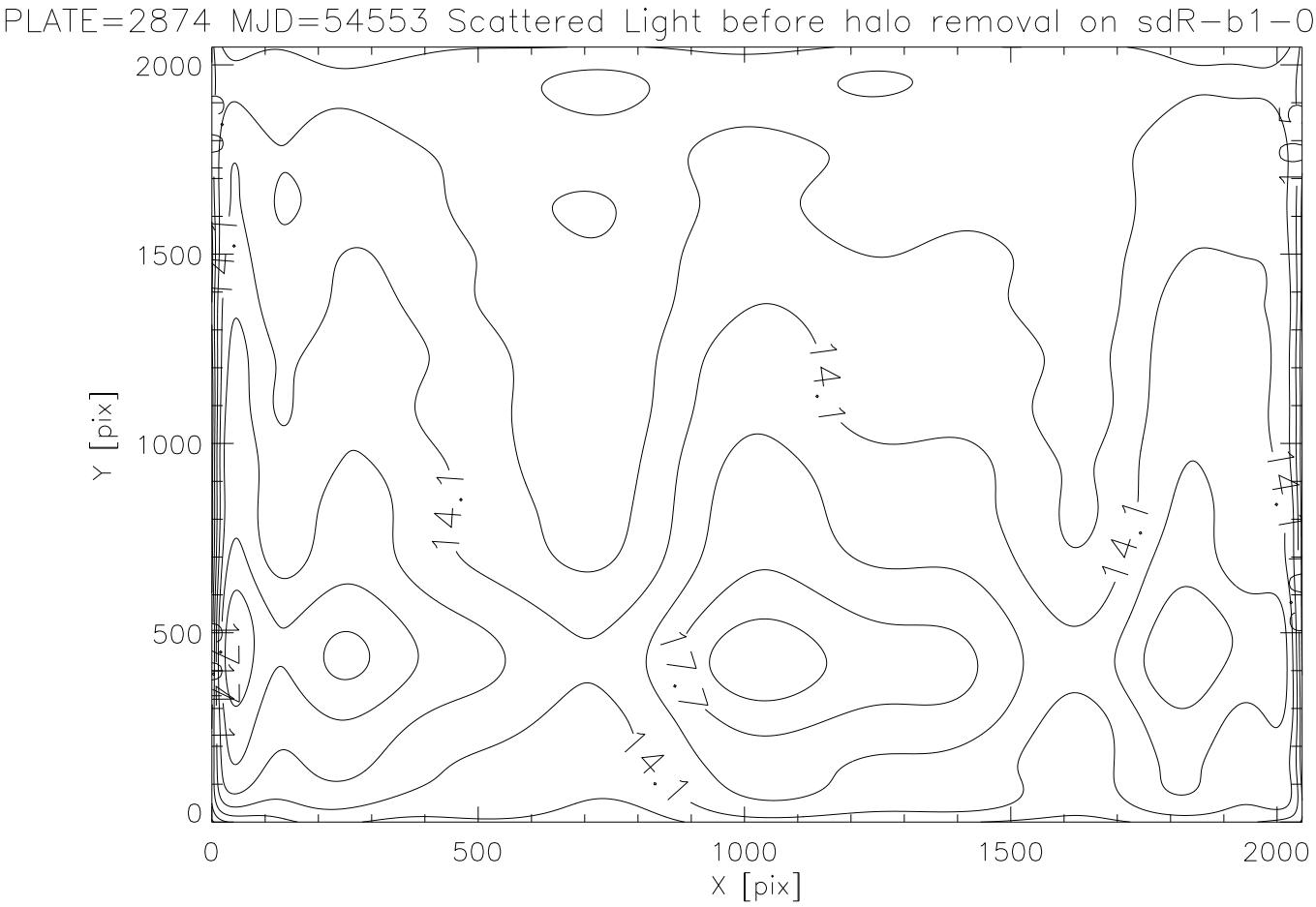

PLATE=2874 MJD=54553 sdR-b1-00051327.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

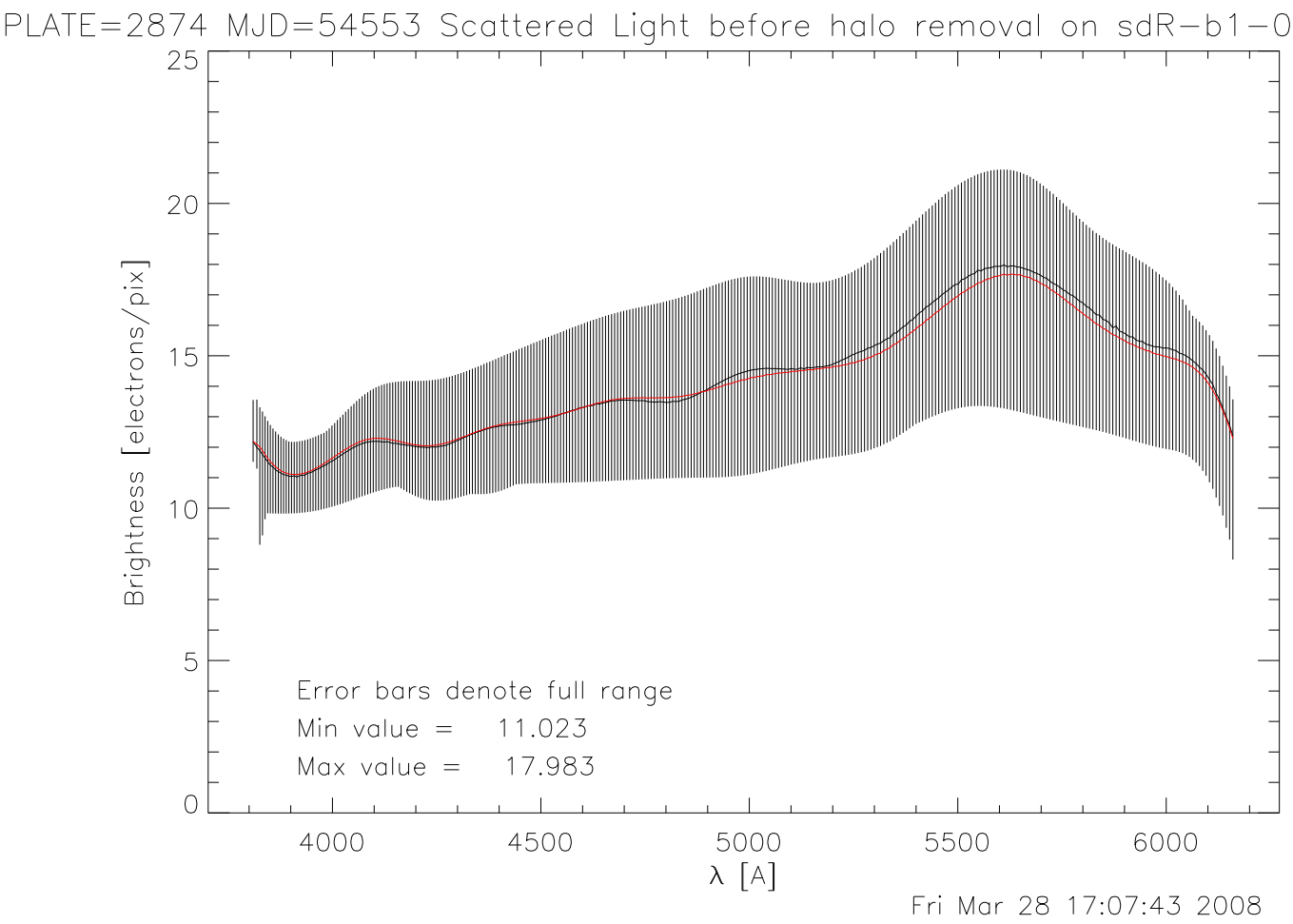

Number of sky fibers = 29
PLATE=2874 MJD=54553 sdR-b1-00051327.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

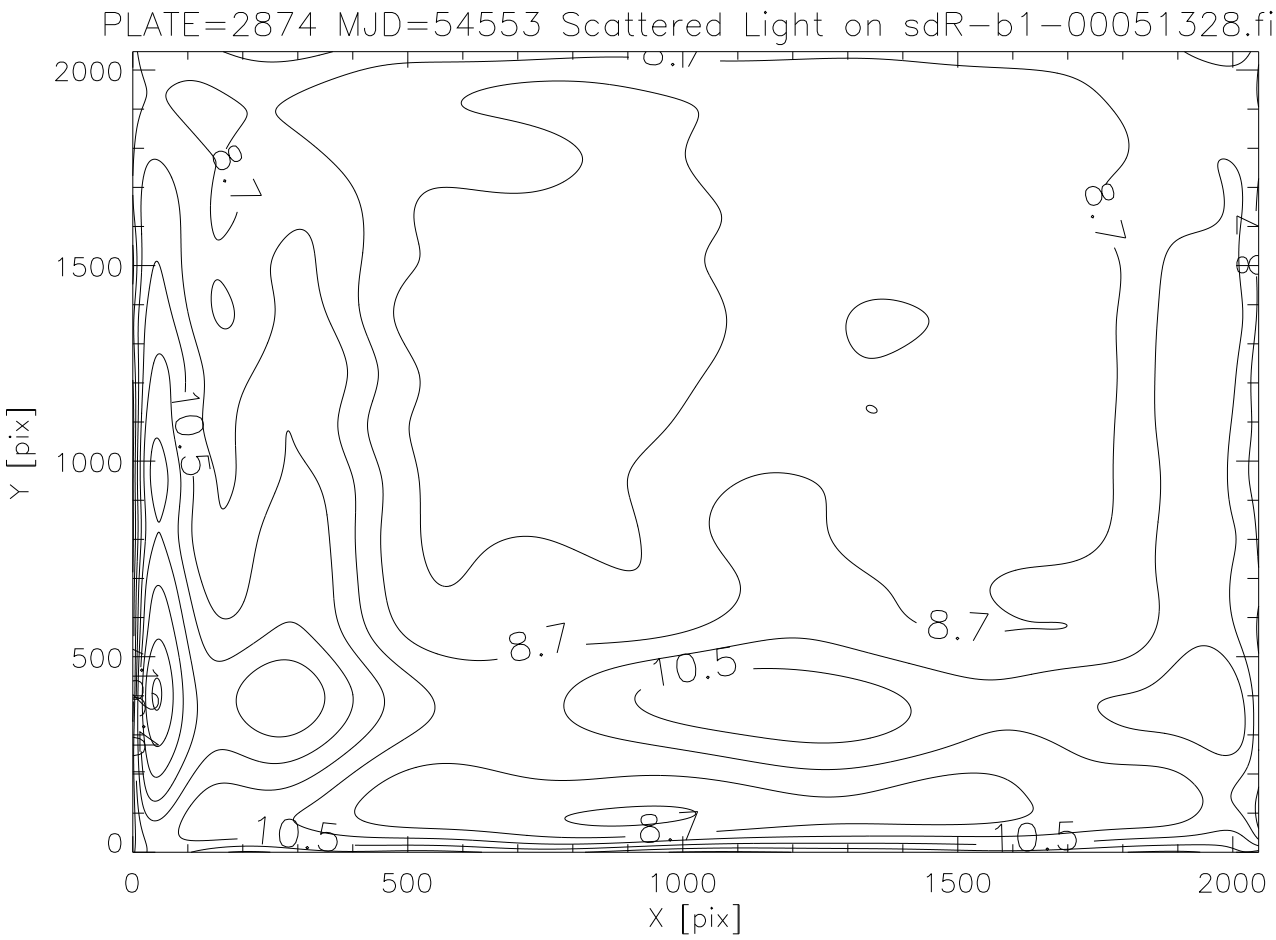

PLATE=2874 MJD=54553 sdR-b1-00051327.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.12 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

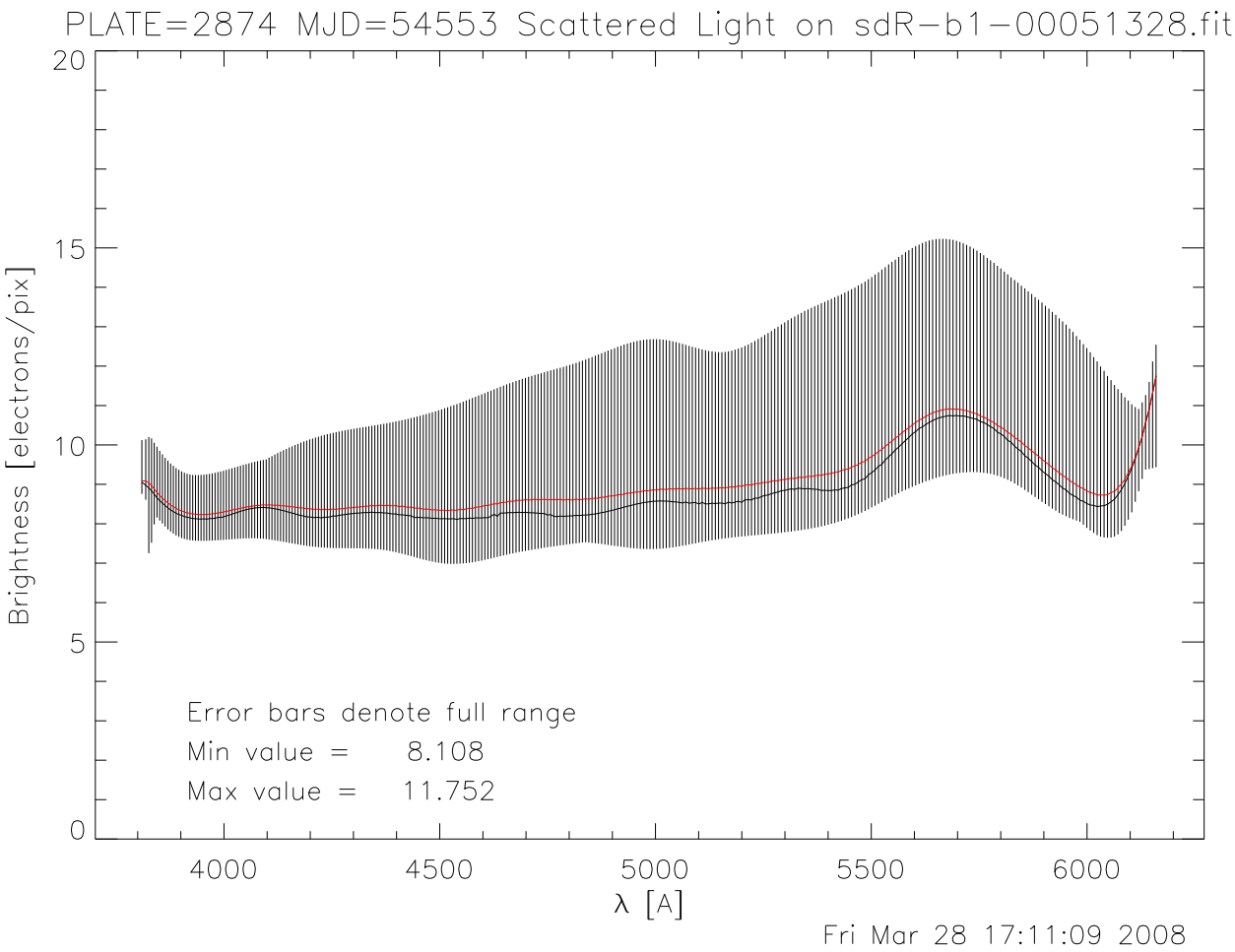

PLATE=2874 MJD=54553 sdR-b1-00051327.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 0.60 %
Focal Distance [mm]
Airmass

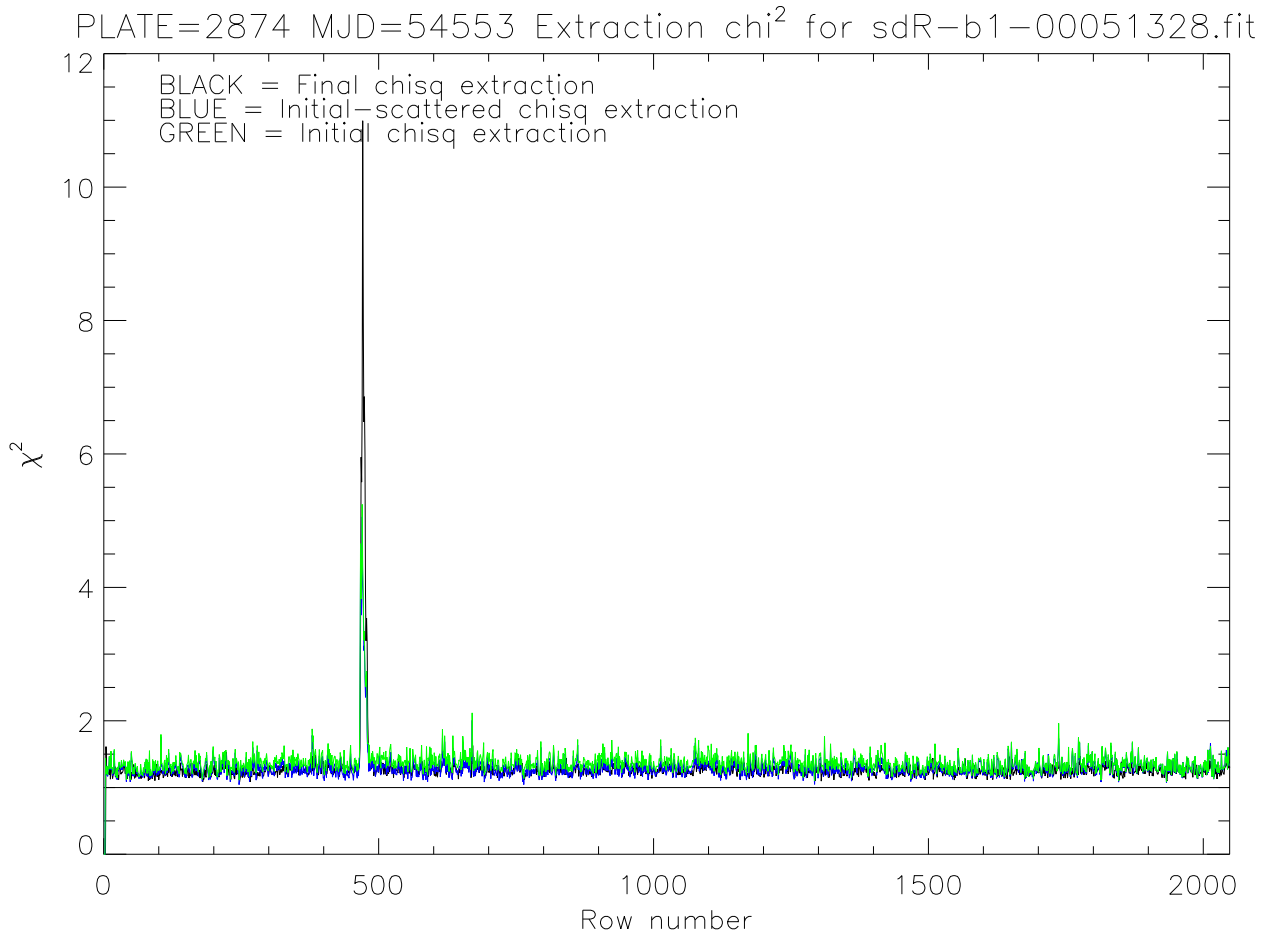

PLATE=2874 MJD=54553 Fiber-Flats for sdR-b1-00051329.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.472
Max value = 1.207
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Fri Mar 28 17:06:39 2008

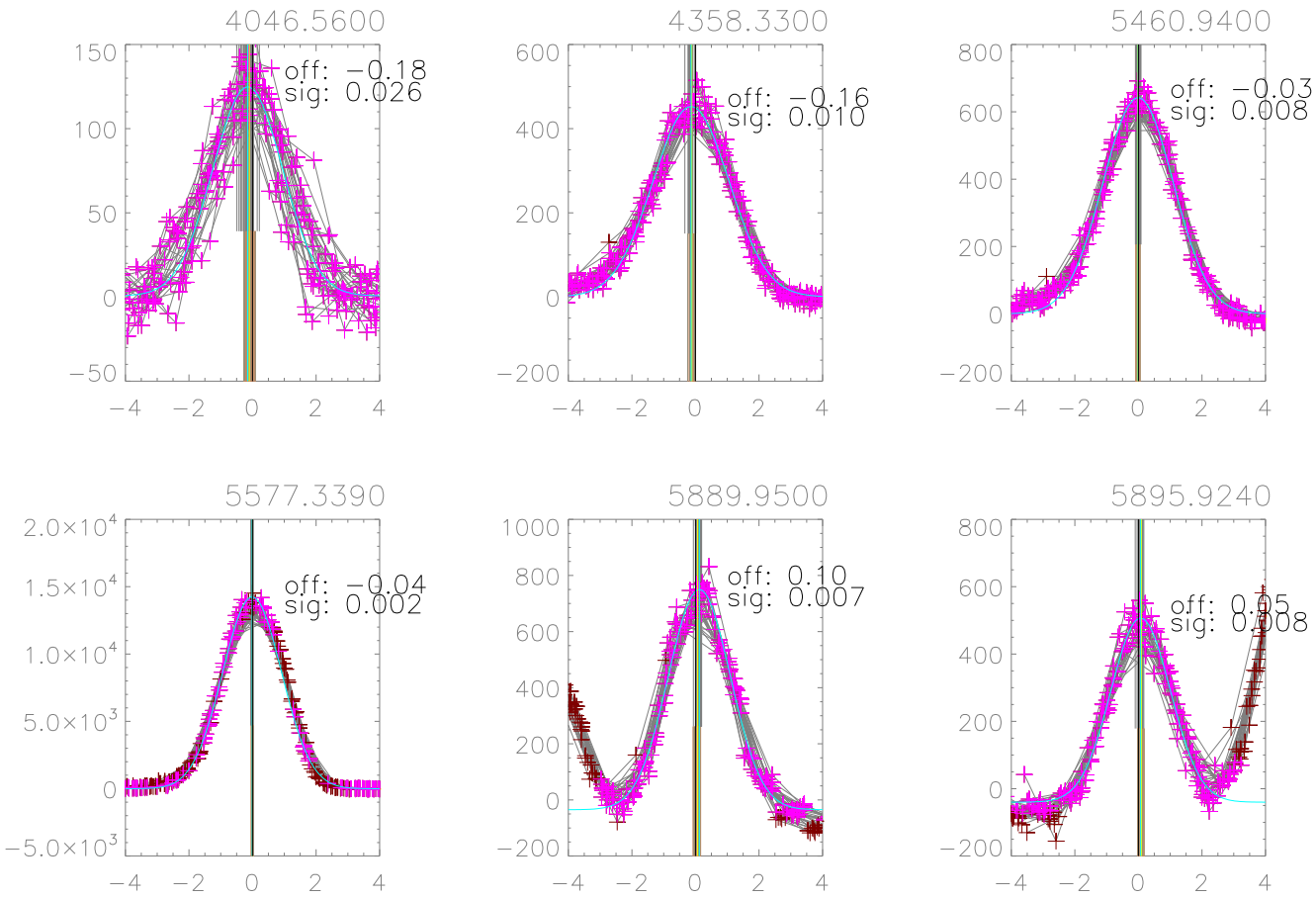

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR−b1−00051328.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
14.1
14.1
14.1
14.1
14.1
14.1
14.1
14.1

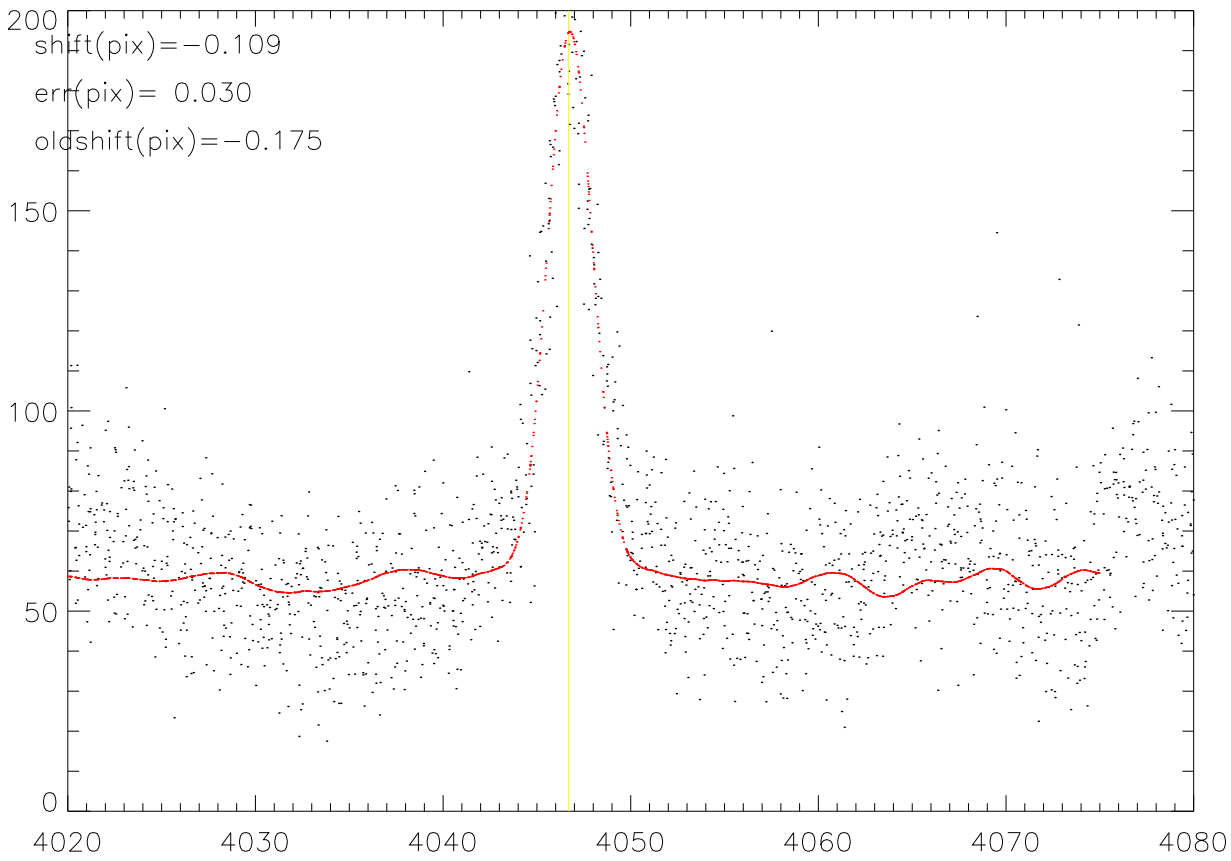

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR-b1-00051328.f
Brightness [electrons/pix]
25
20
15
10
5
0
Error bars denote full range
Min value = 11.023
Max value = 17.983
4000
4500
5000
5500
6000
λ [A]
Fri Mar 28 17:07:43 2008

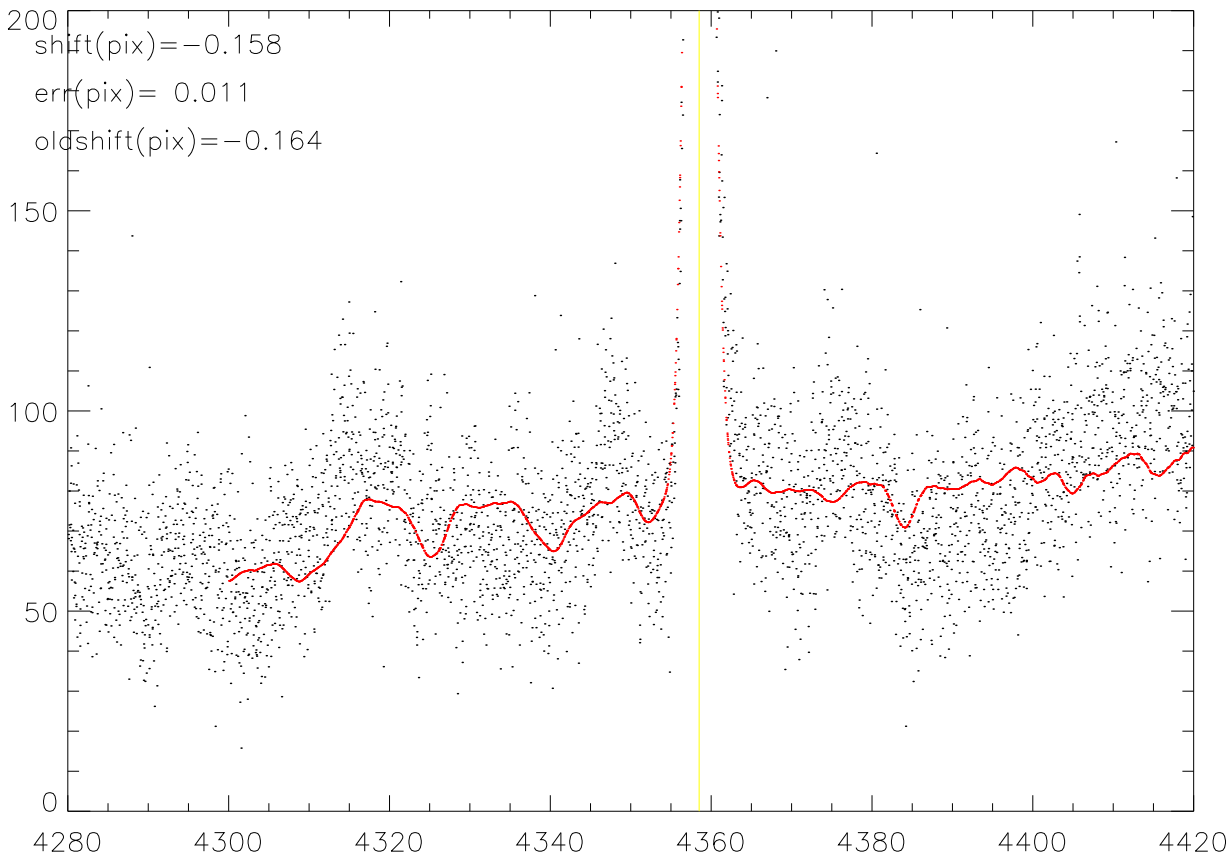

PLATE=2874 MJD=54553 Scattered Light on sdR-b1-00051328.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.7
10.5

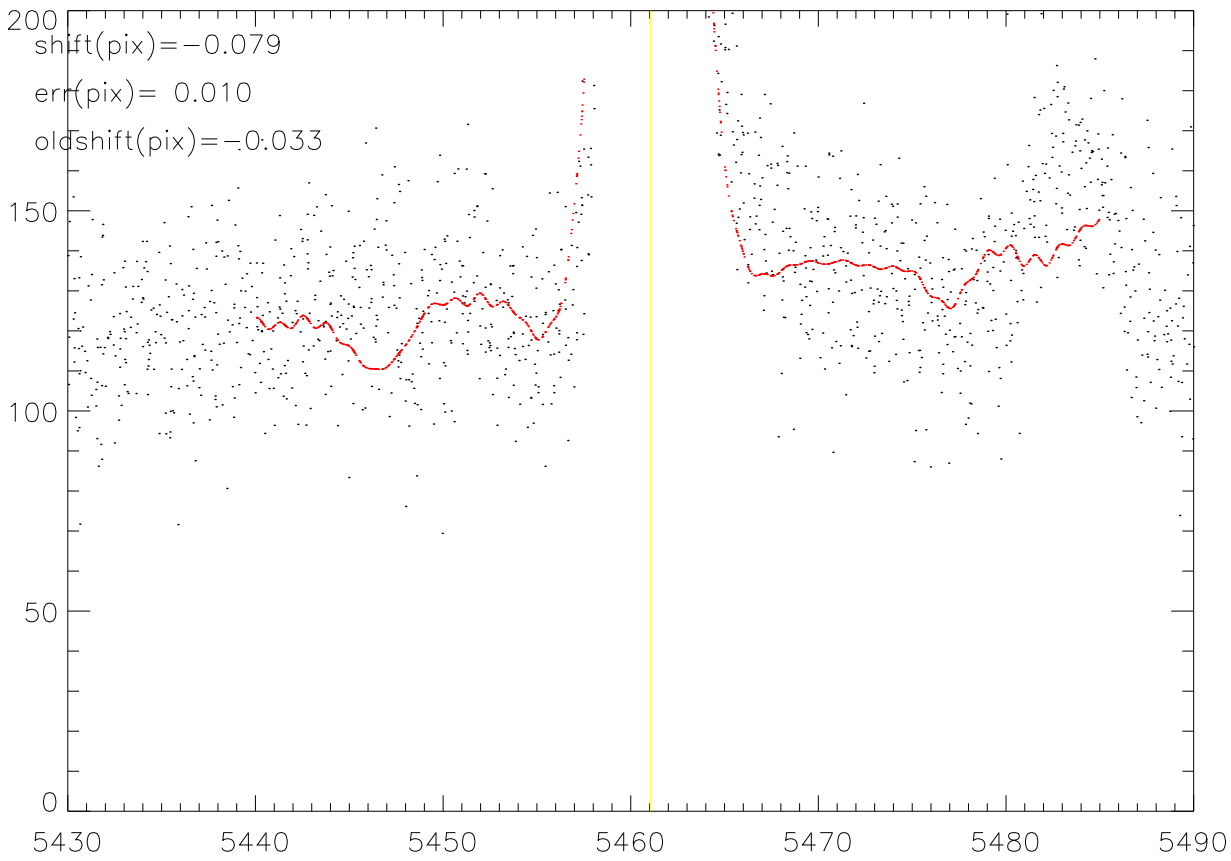

PLATE=2874 MJD=54553 Scattered Light on sdR-b1-00051328.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.108
Max value = 11.752
Fri Mar 28 17:11:09 2008

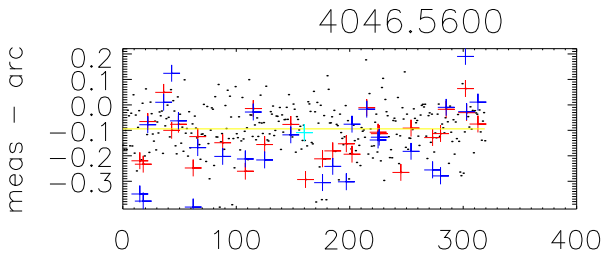

PLATE=2874 MJD=54553 Extraction chi^2 for sdR-b1-00051328.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
0
500
1000
1500
2000
Row number

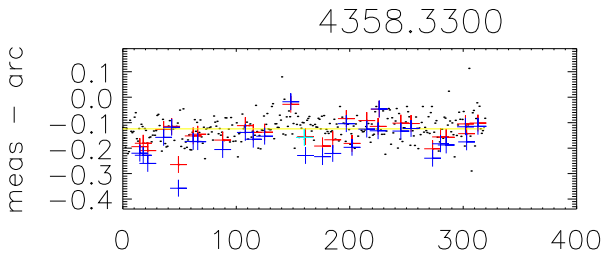

4046.5600
off: −0.18
sig: 0.026
4358.3300
off: −0.16
sig: 0.010
5460.9400
off: −0.03
sig: 0.008
5577.3390
off: −0.04
sig: 0.002
5889.9500
off: 0.10
sig: 0.007
5895.9240
off: 0.05
sig: 0.008

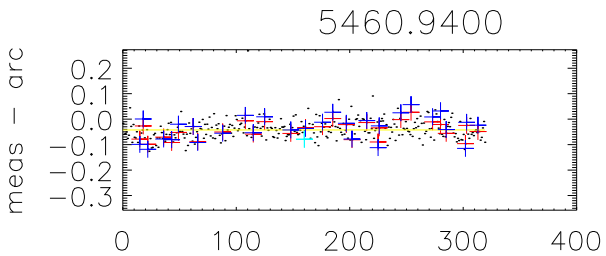

shift(pix)=−0.109
err(pix)= 0.030
oldshift(pix)=−0.175
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

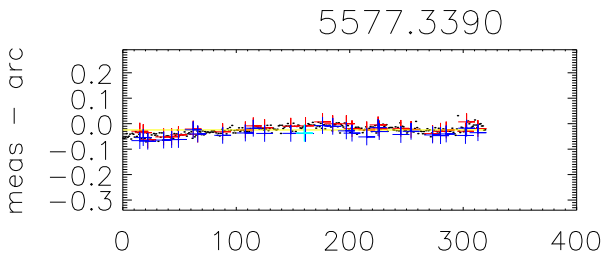

shift(pix)=−0.158
err(pix)= 0.011
oldshift(pix)=−0.164
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

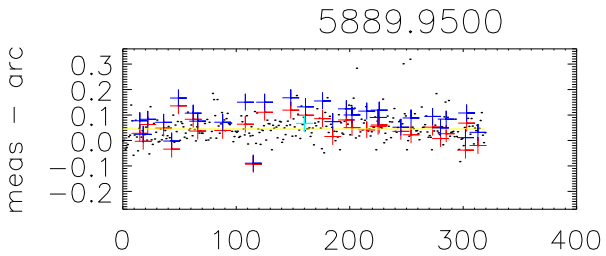

shift(pix)=−0.079
err(pix)= 0.010
oldshift(pix)=−0.033
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

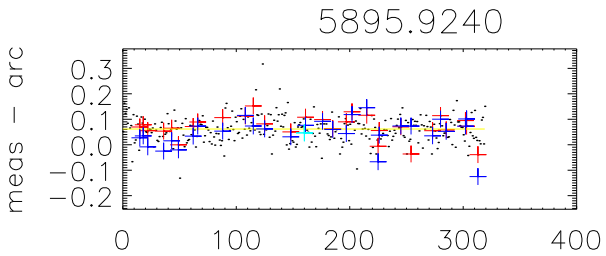

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

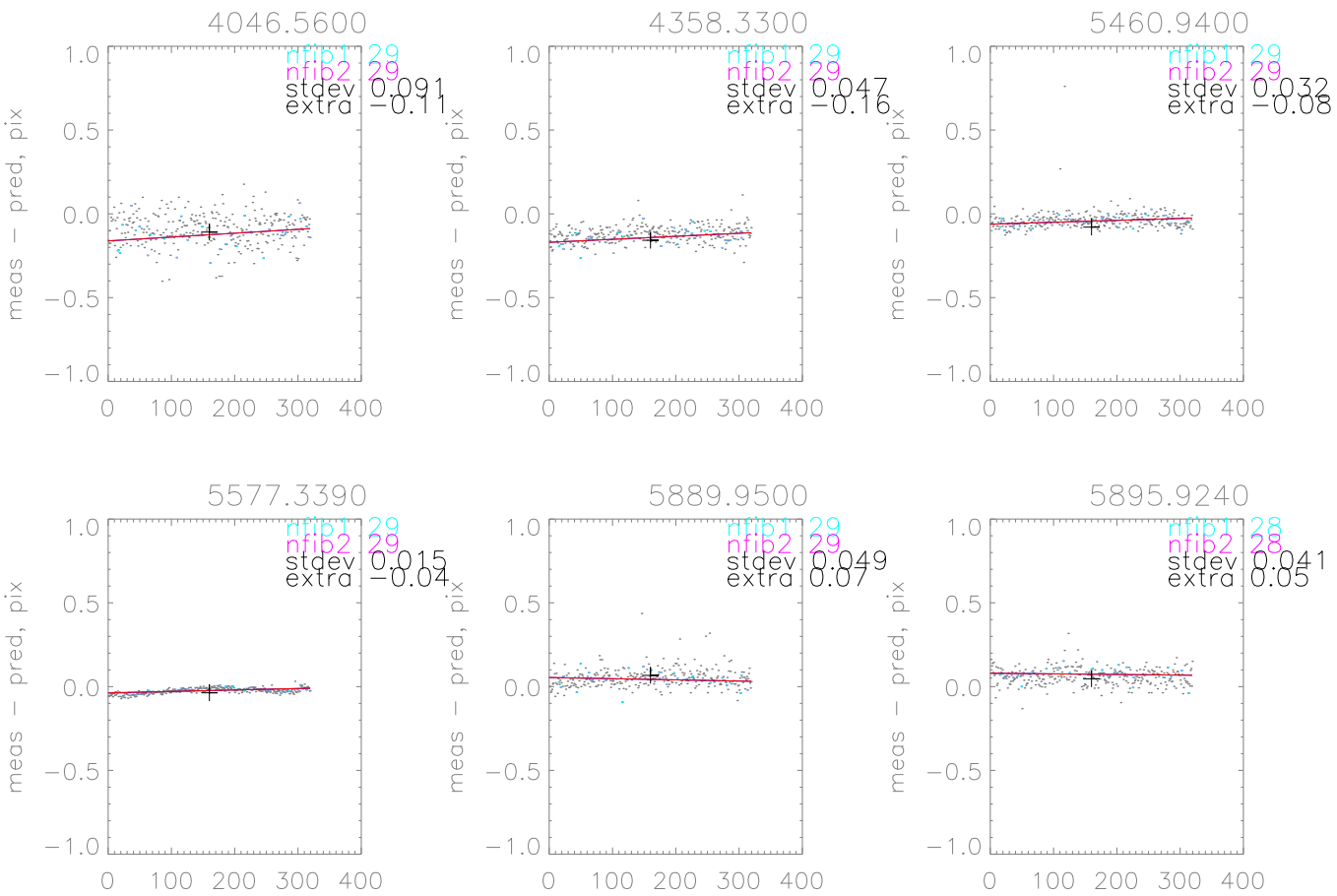

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

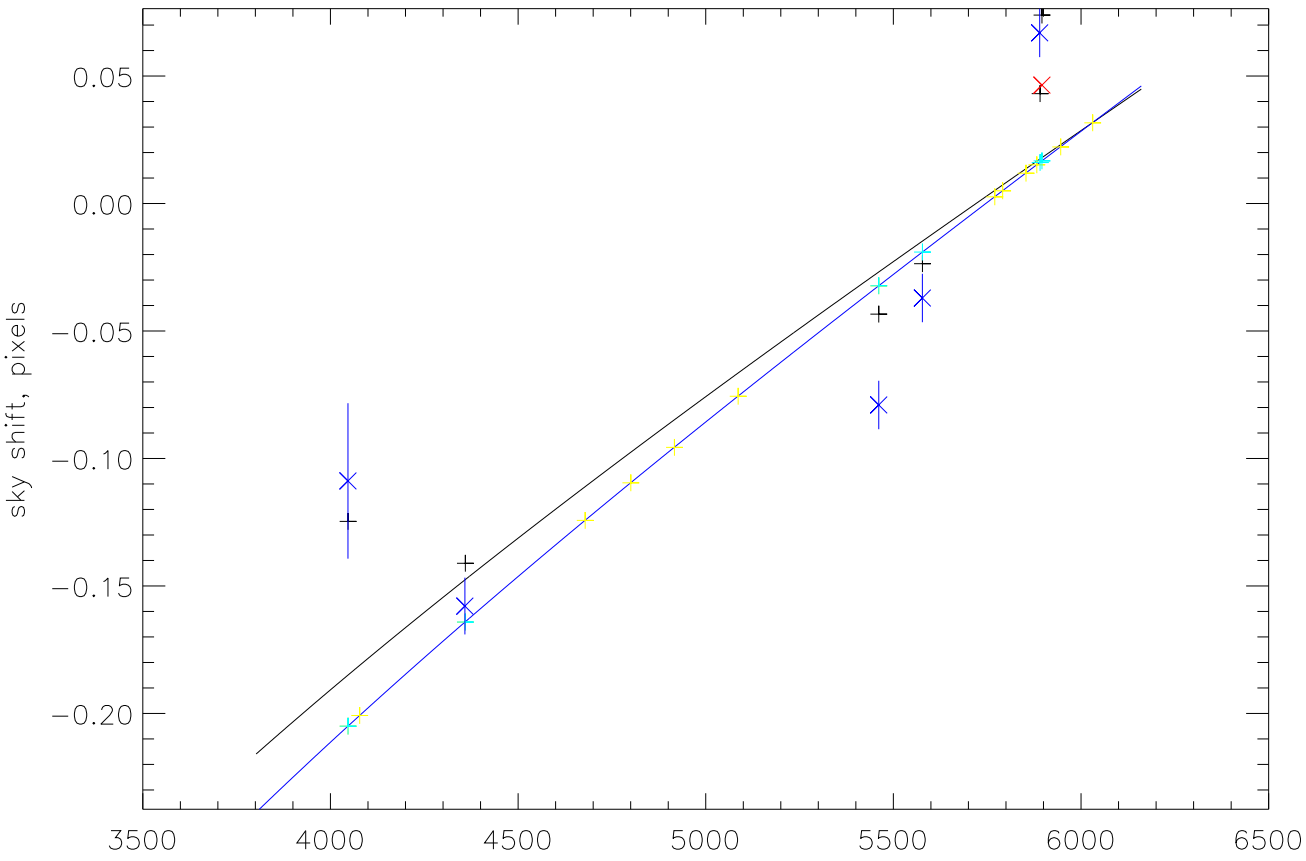

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

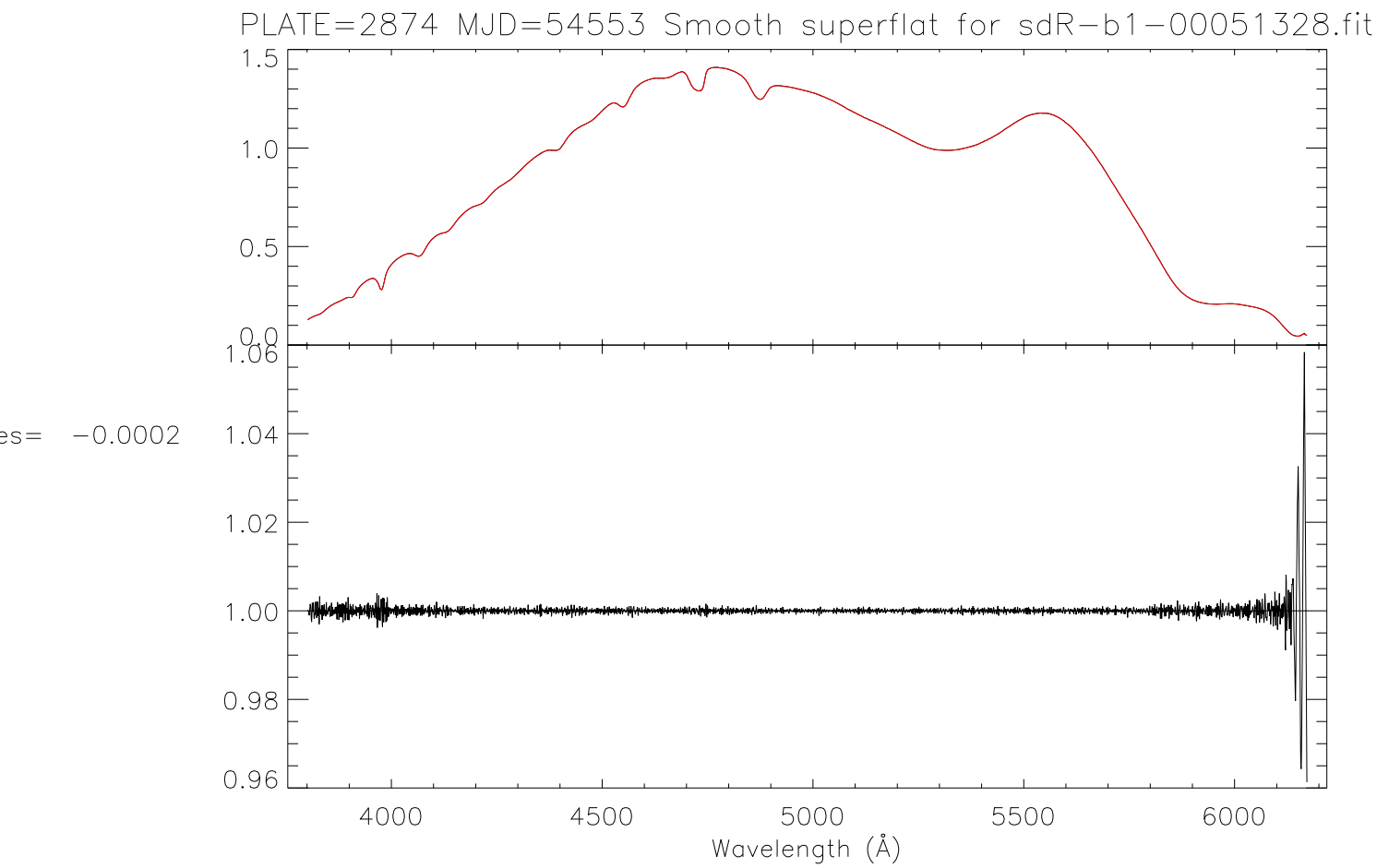

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

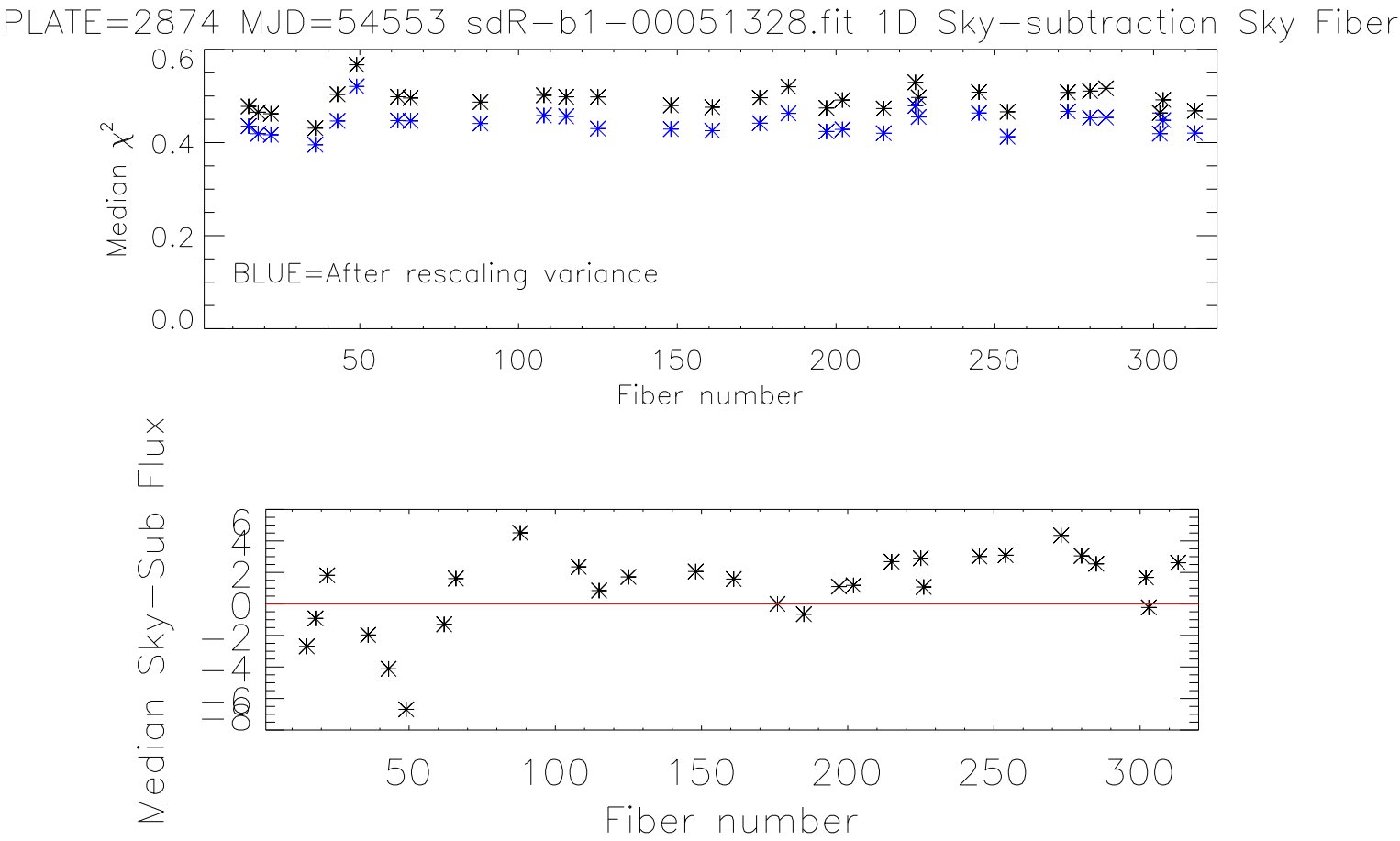

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

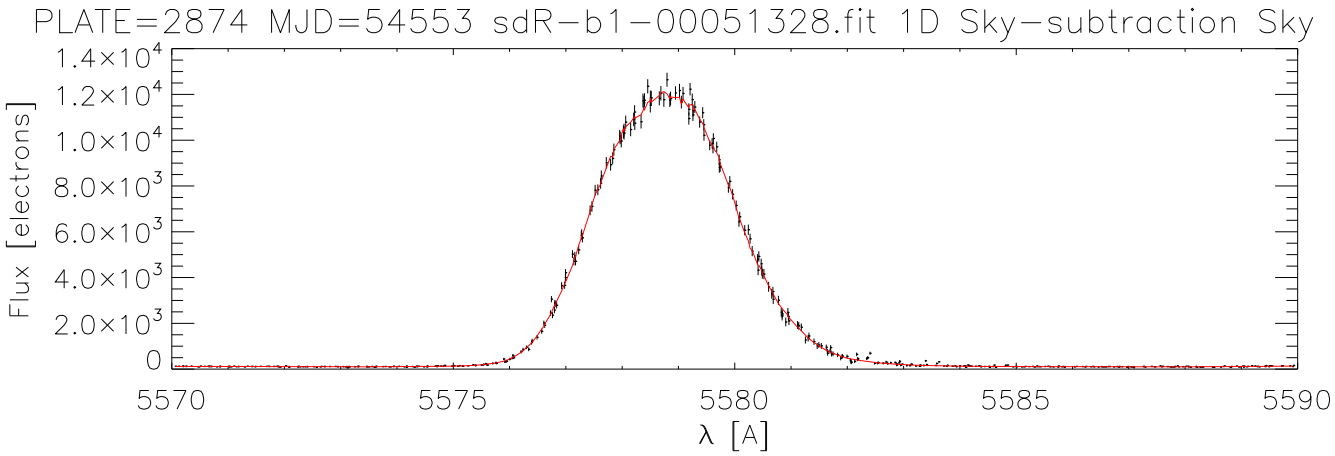

4046.5600
nfib1 29
nfib2 29
stdev 0.091
extra −0.11
4358.3300
nfib1 29
nfib2 29
stdev 0.047
extra −0.16
5460.9400
nfib1 29
nfib2 29
stdev 0.032
extra −0.08
5577.3390
nfib1 29
nfib2 29
stdev 0.015
extra −0.04
5889.9500
nfib1 29
nfib2 29
stdev 0.049
extra 0.07
5895.9240
nfib1 28
nfib2 28
stdev 0.041
extra 0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

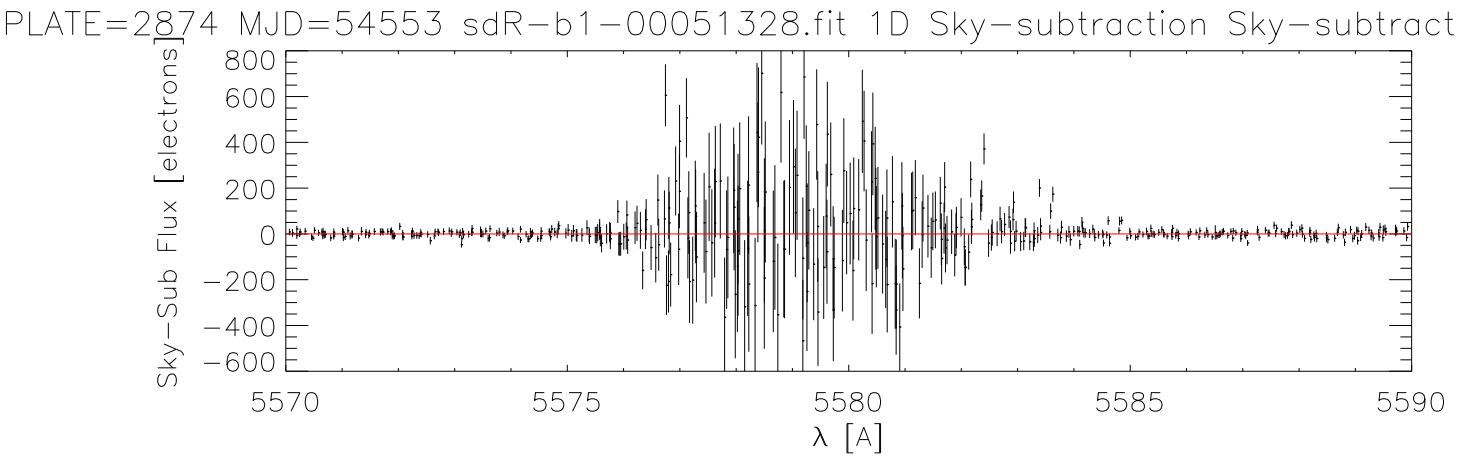

0.05
0.00
−0.05
−0.10
−0.15
−0.20
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

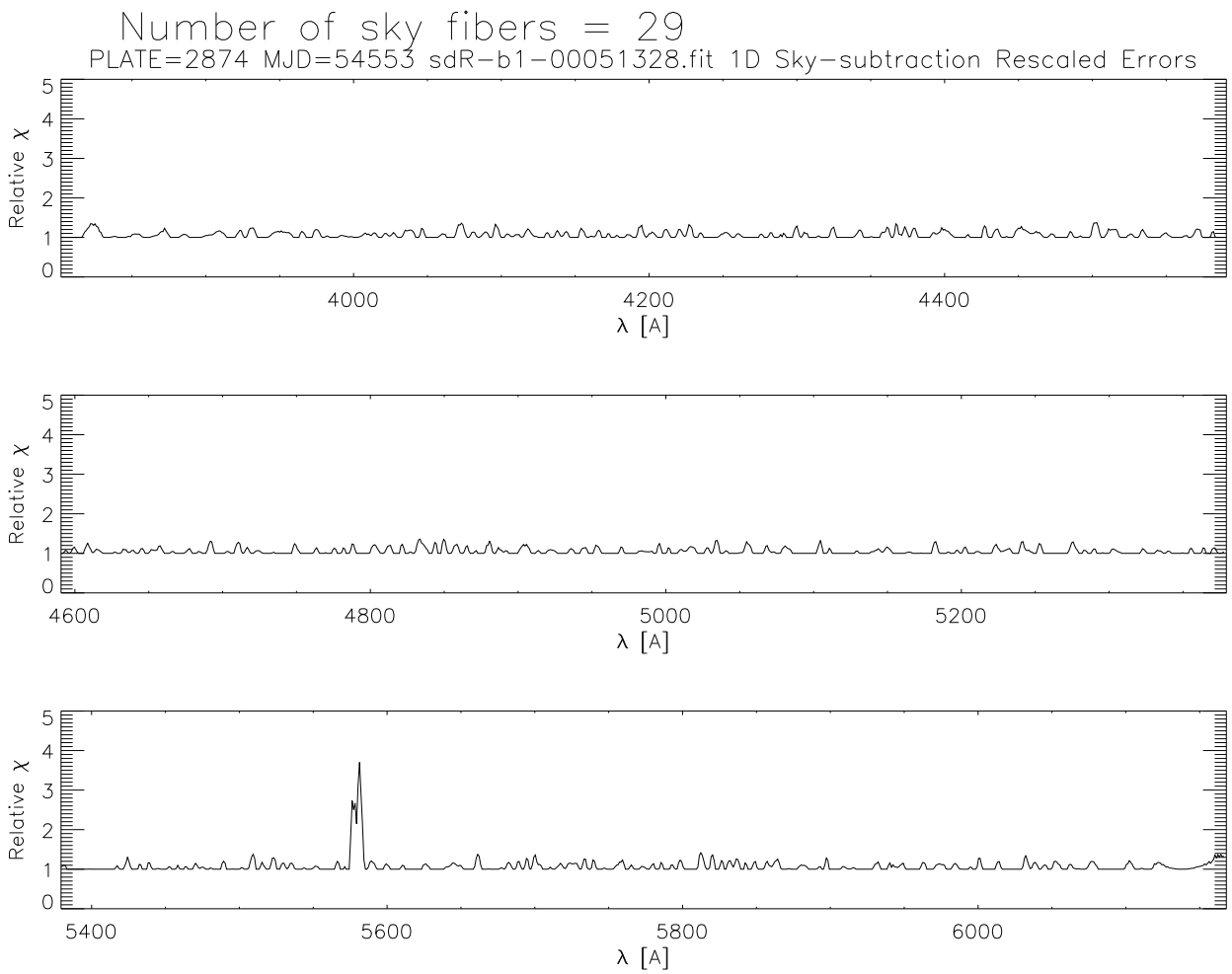

PLATE=2874 MJD=54553 Smooth superflat for sdR-b1-00051328.fit
1.5
1.0
0.5
0.0
1.06
1.04
1.02
1.00
0.98
0.96
4000
4500
5000
5500
6000
Wavelength (Å)

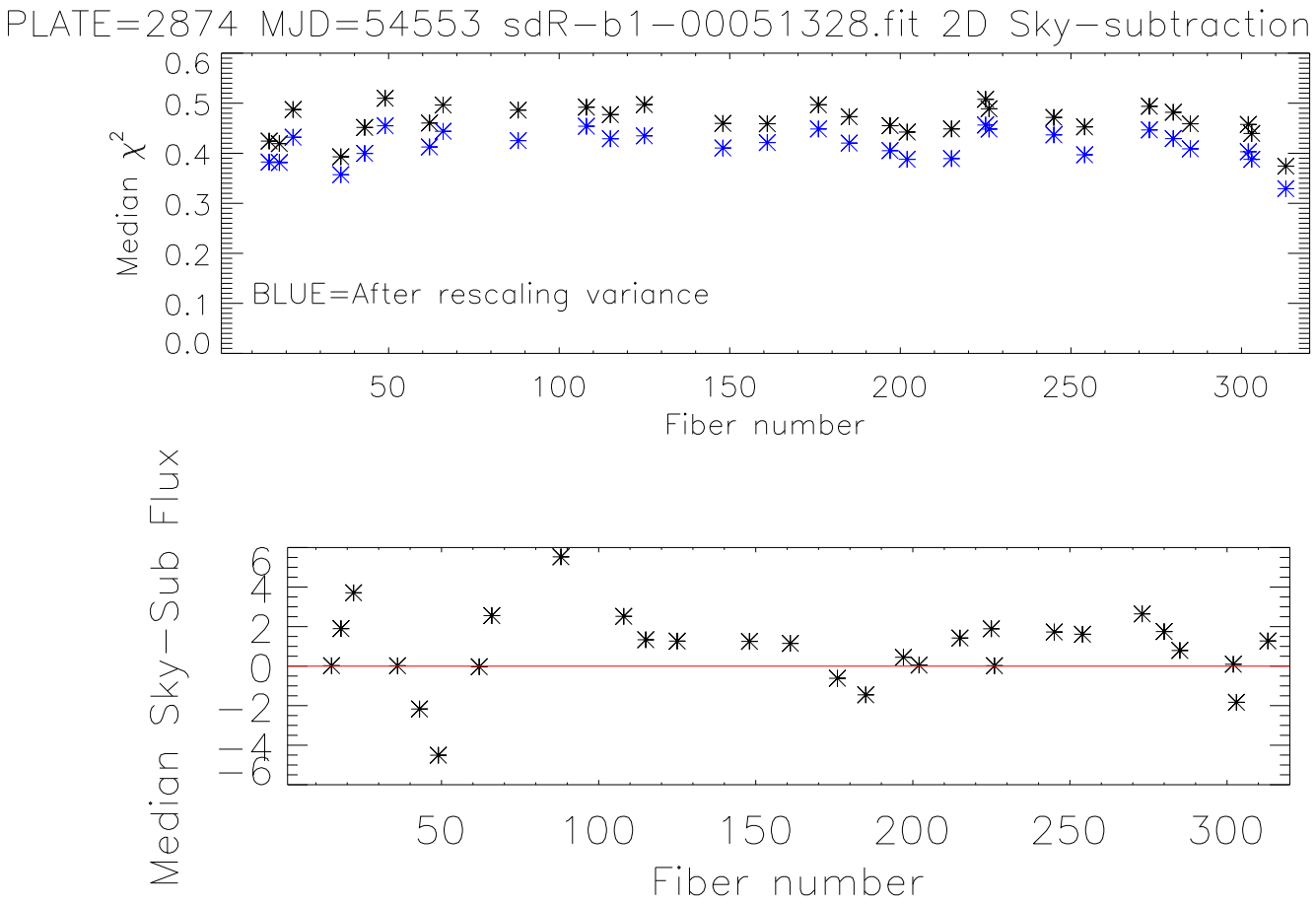
es= −0.0002

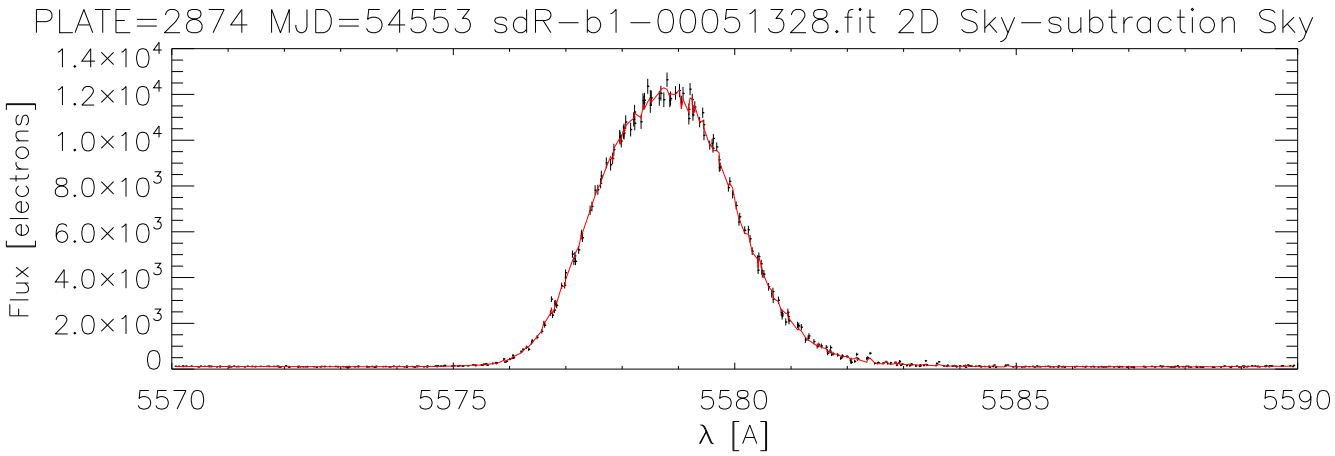

PLATE=2874 MJD=54553 sdR-b1-00051328.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-0.6
-0.4
-0.2
0.0
0.2
0.4
0.6
50
100
150
200
250
300
Fiber number

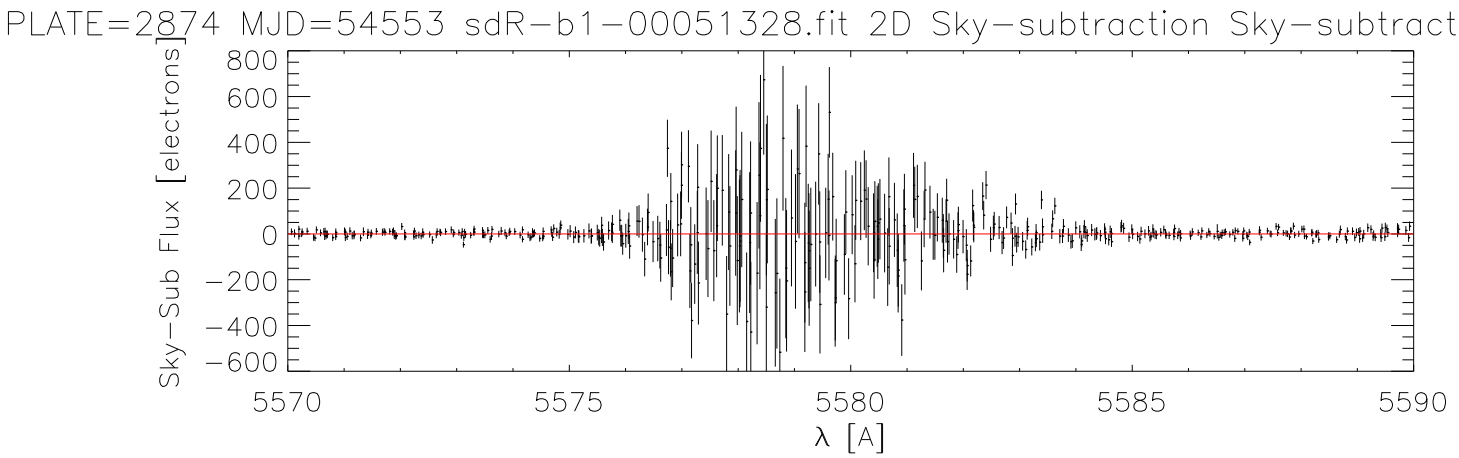

PLATE=2874 MJD=54553 sdR-b1-00051328.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.4×10^4
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

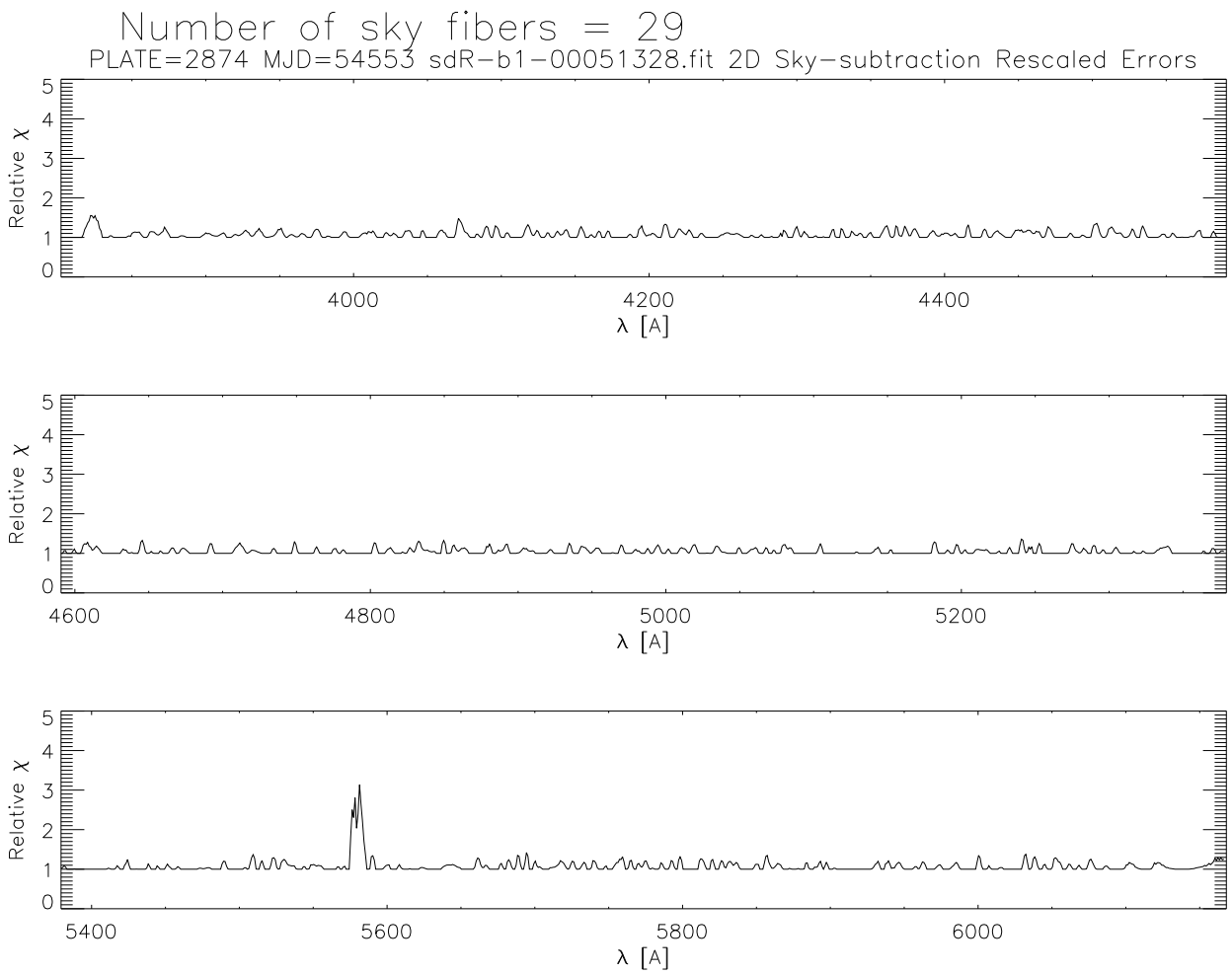

PLATE=2874 MJD=54553 sdR-b1-00051328.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
−200
−400
−600
5570
5575
5580
5585
5590
λ [A]

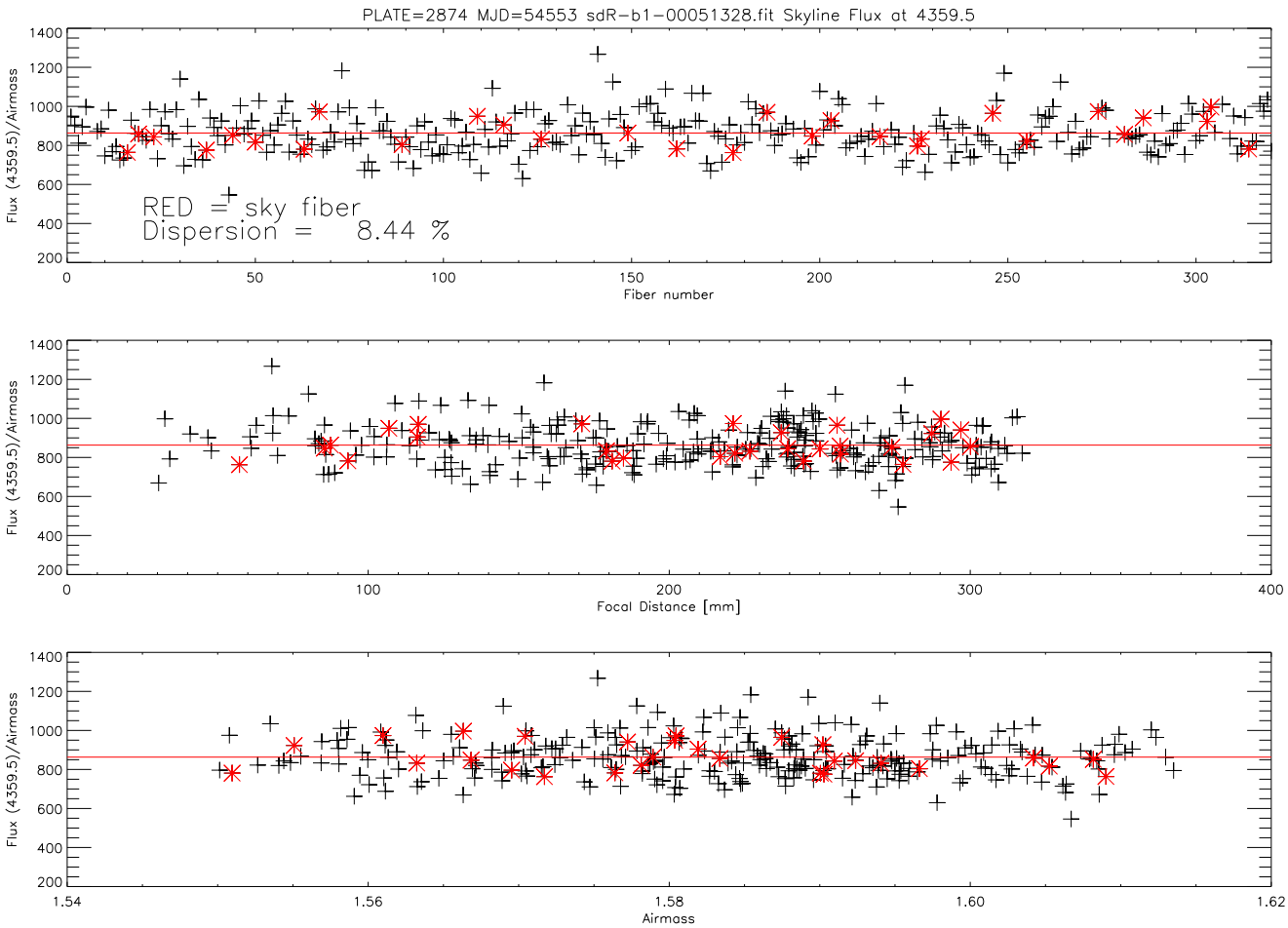

Number of sky fibers = 29
PLATE=2874 MJD=54553 sdR-b1-00051328.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

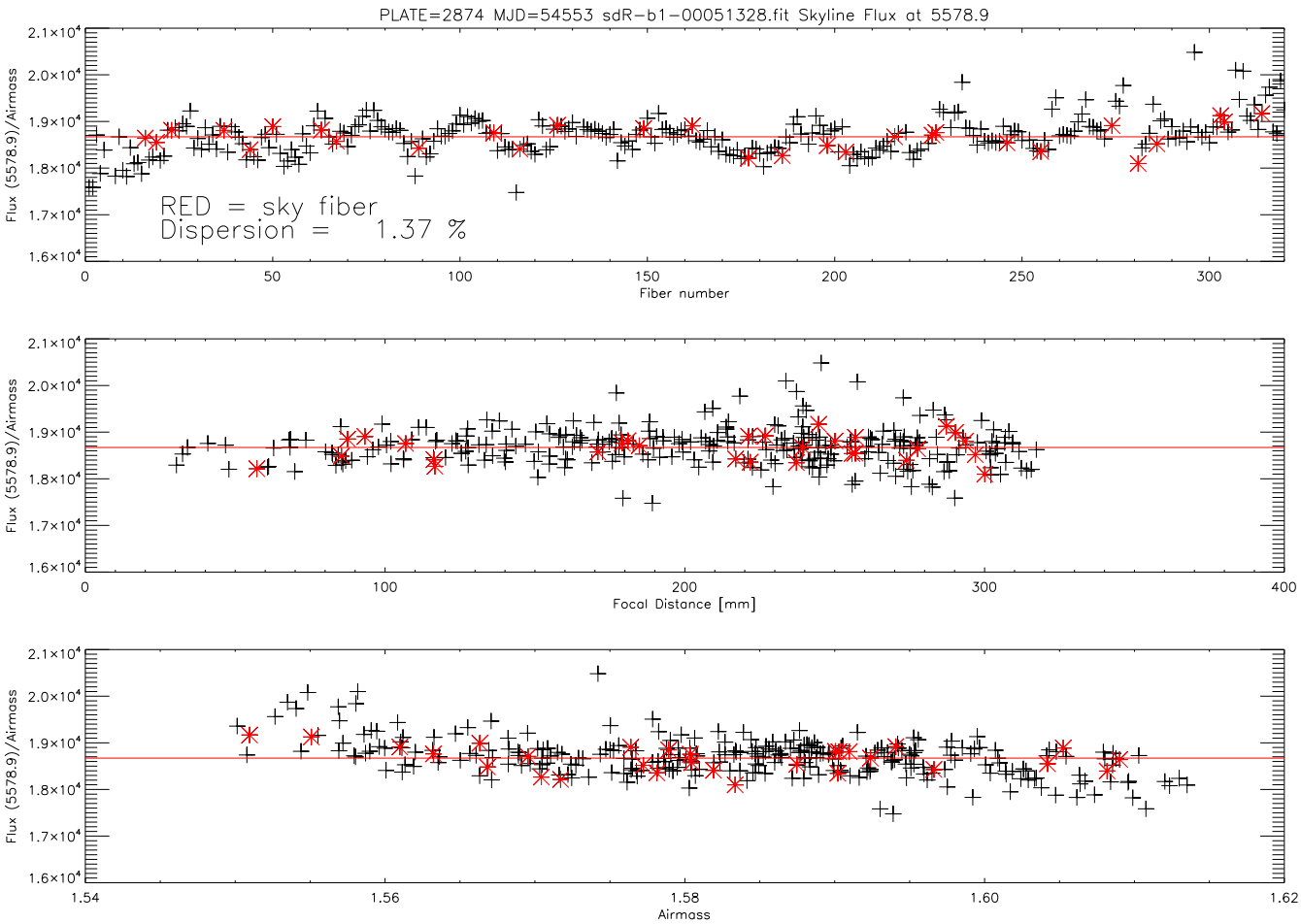

PLATE=2874 MJD=54553 sdR-b1-00051328.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

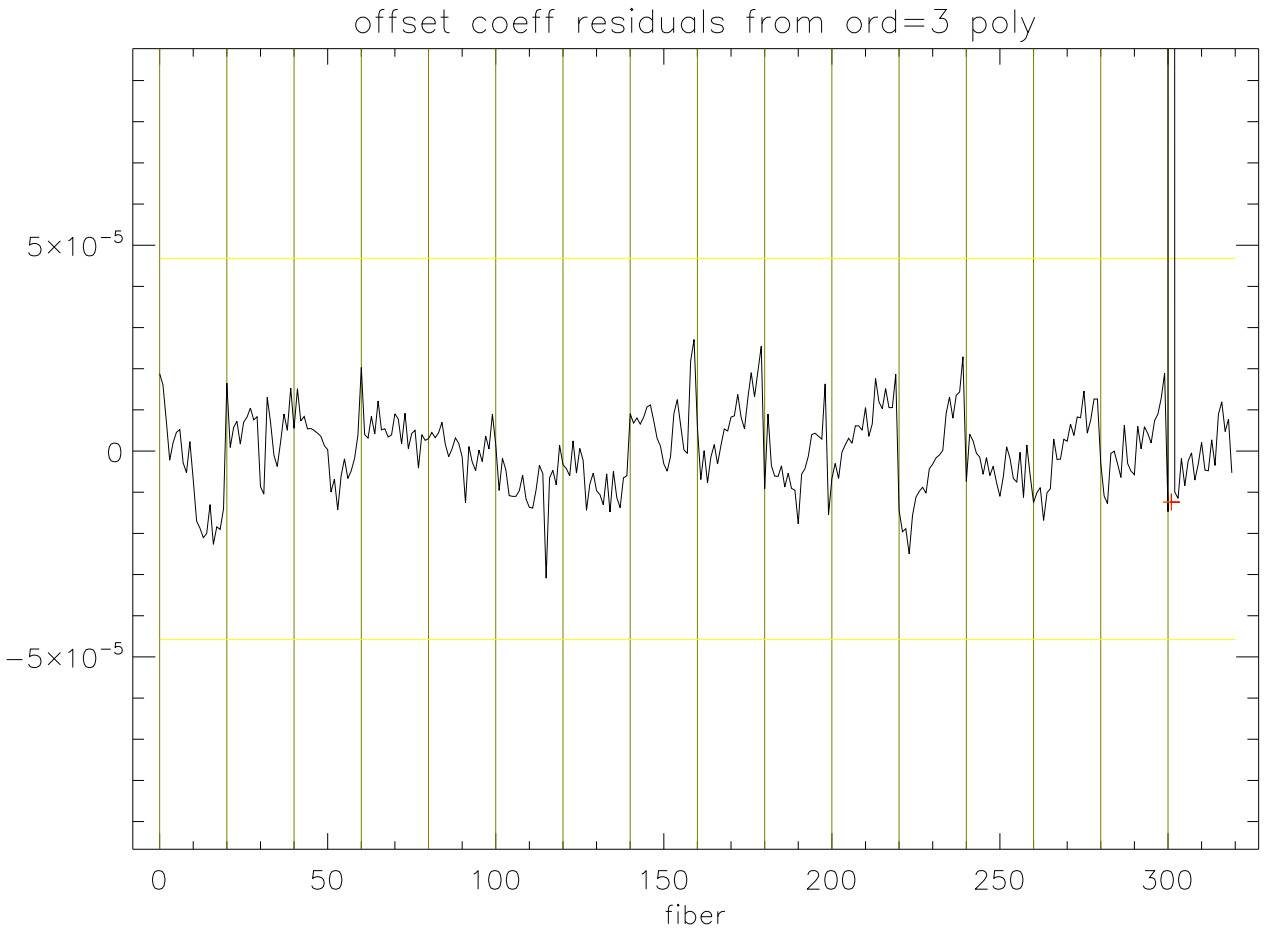

PLATE=2874 MJD=54553 sdR-b1-00051328.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.4×10^4
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

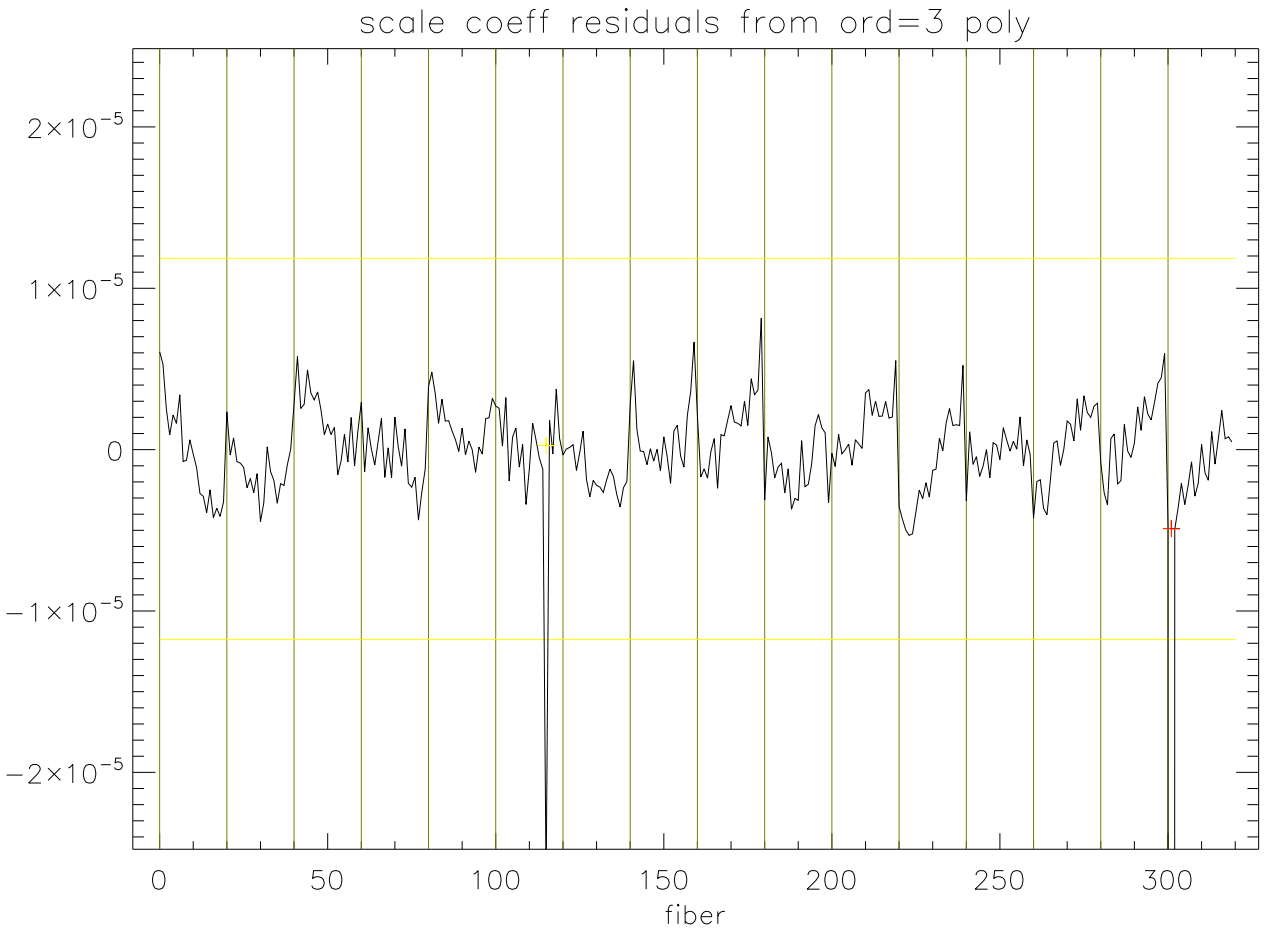

PLATE=2874 MJD=54553 sdR-b1-00051328.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
800
600
400
200
0
−200
−400
−600
5570
5575
5580
5585
5590
λ [A]

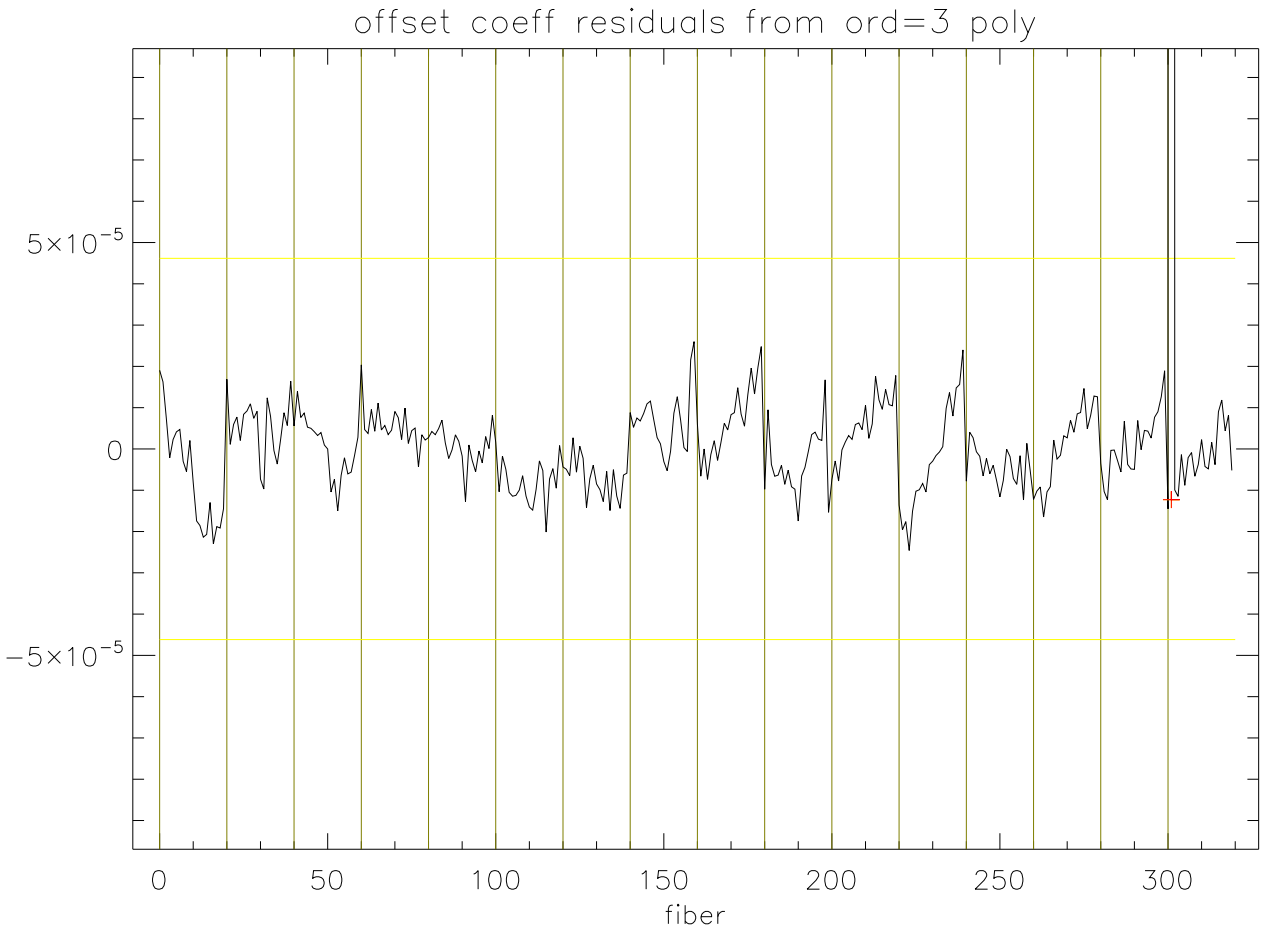

Number of sky fibers = 29
PLATE=2874 MJD=54553 sdR-b1-00051328.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

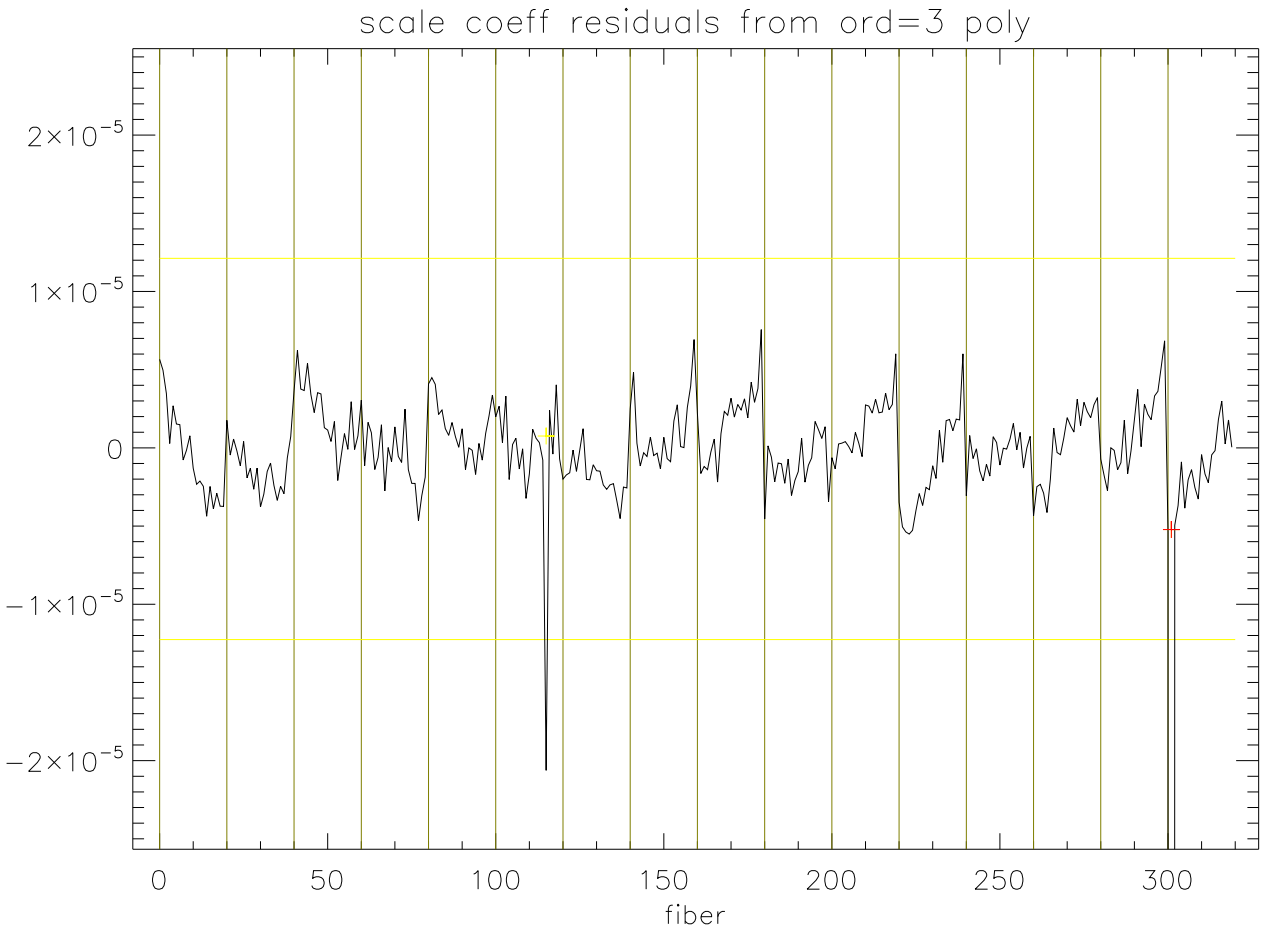

PLATE=2874 MJD=54553 sdR-b1-00051328.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 8.44 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

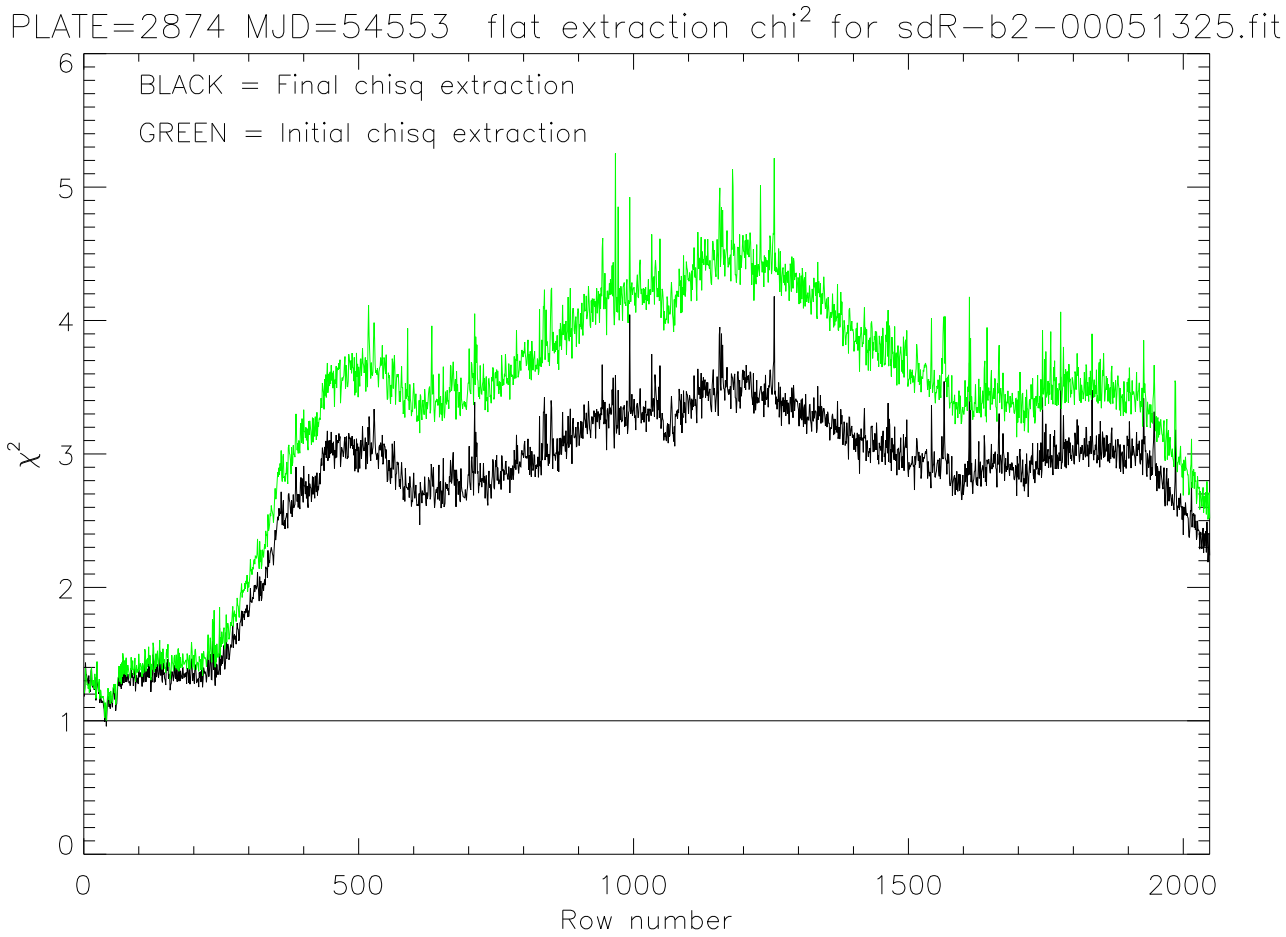

PLATE=2874 MJD=54553 sdR-b1-00051328.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.37 %
Fiber number
Focal Distance [mm]
Airmass

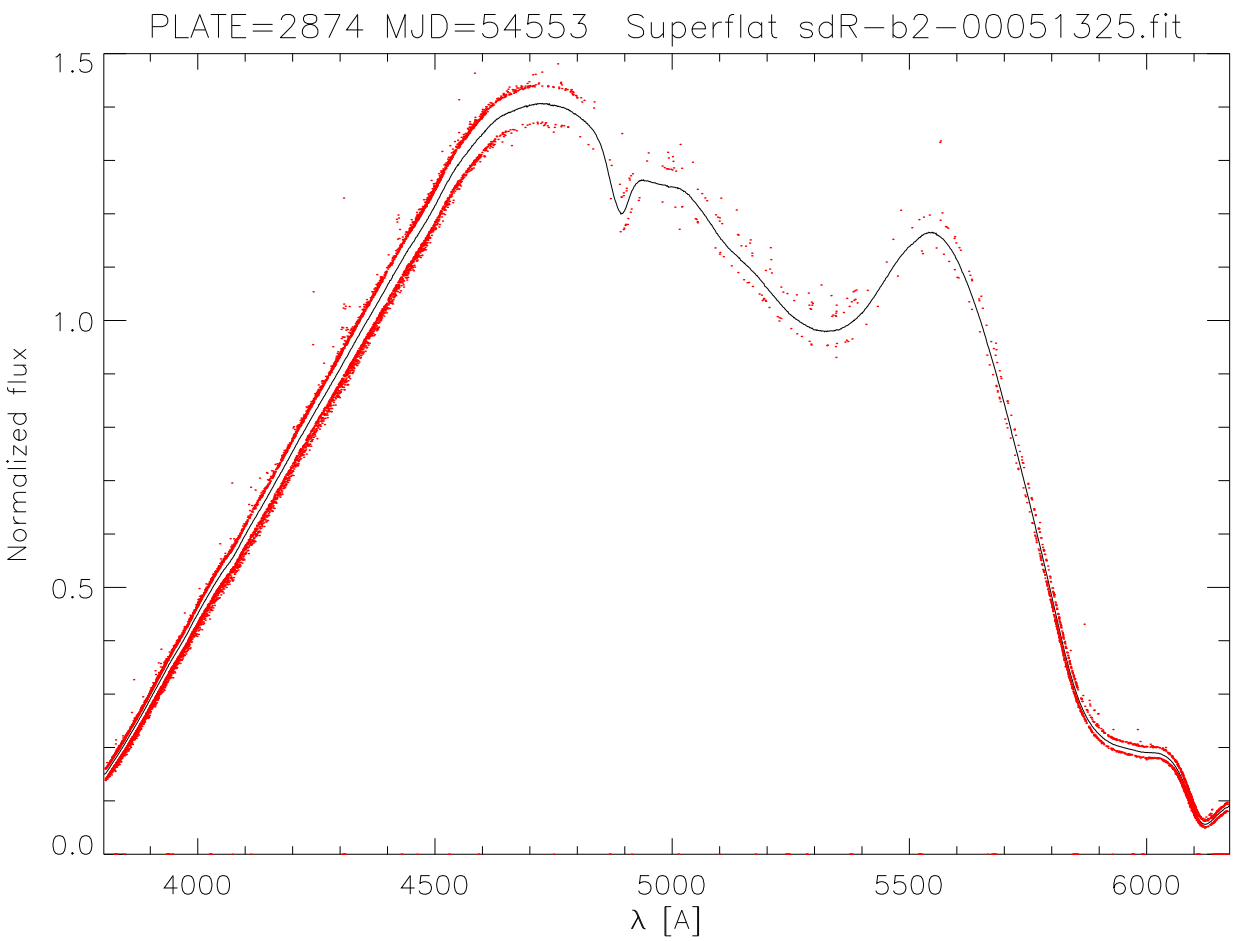

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
0
50
100
150
200
250
300
fiber

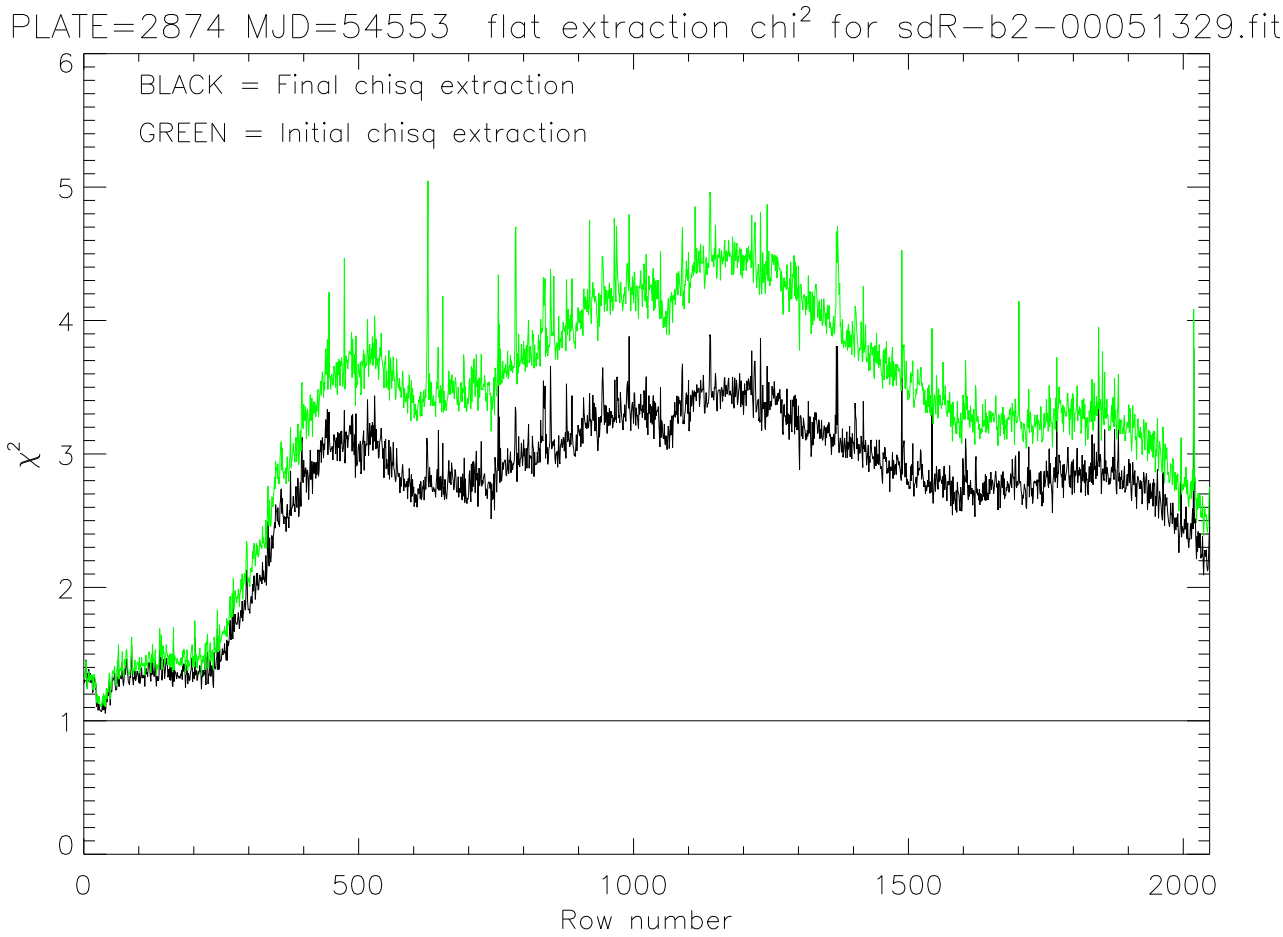

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

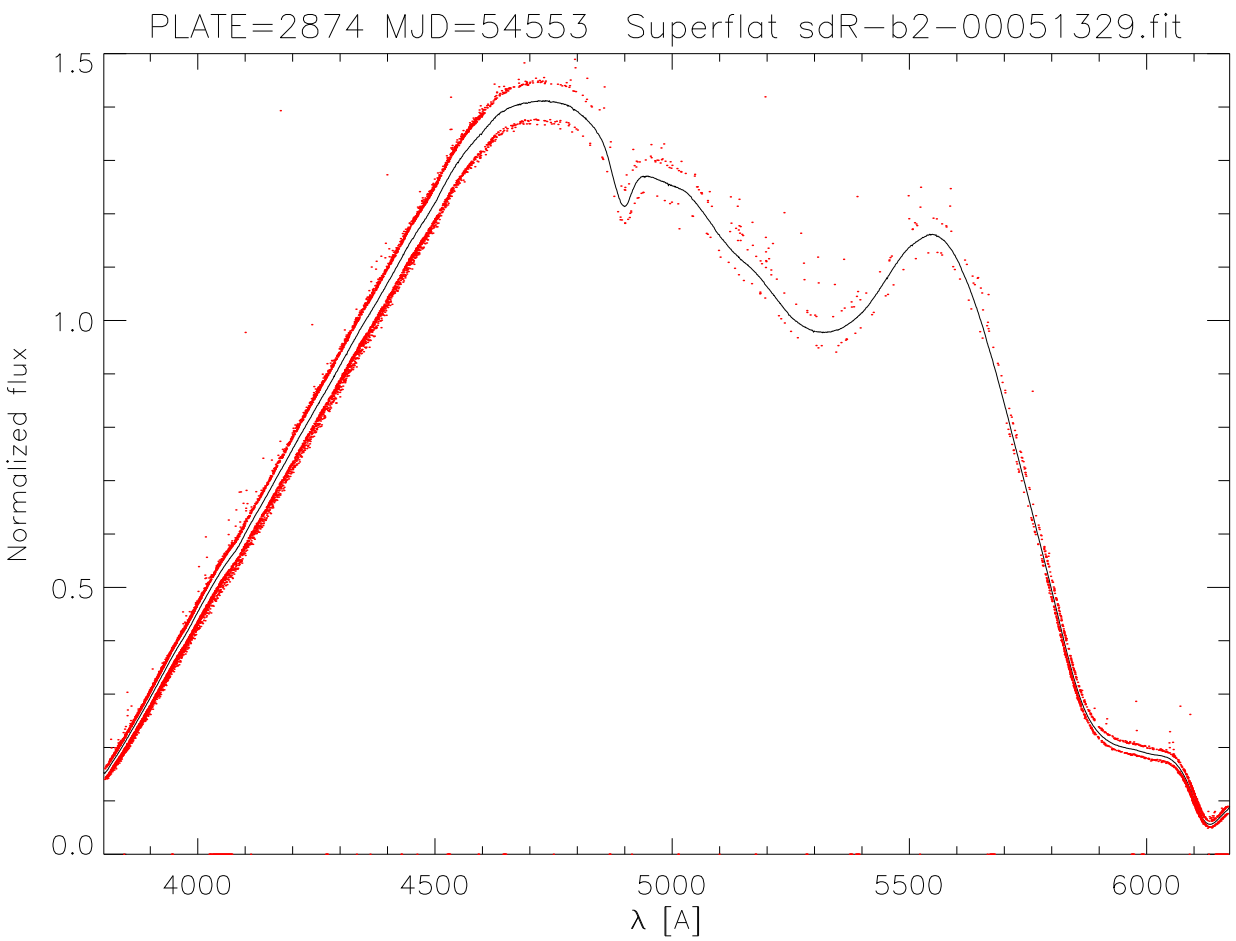

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
0
50
100
150
200
250
300
fiber

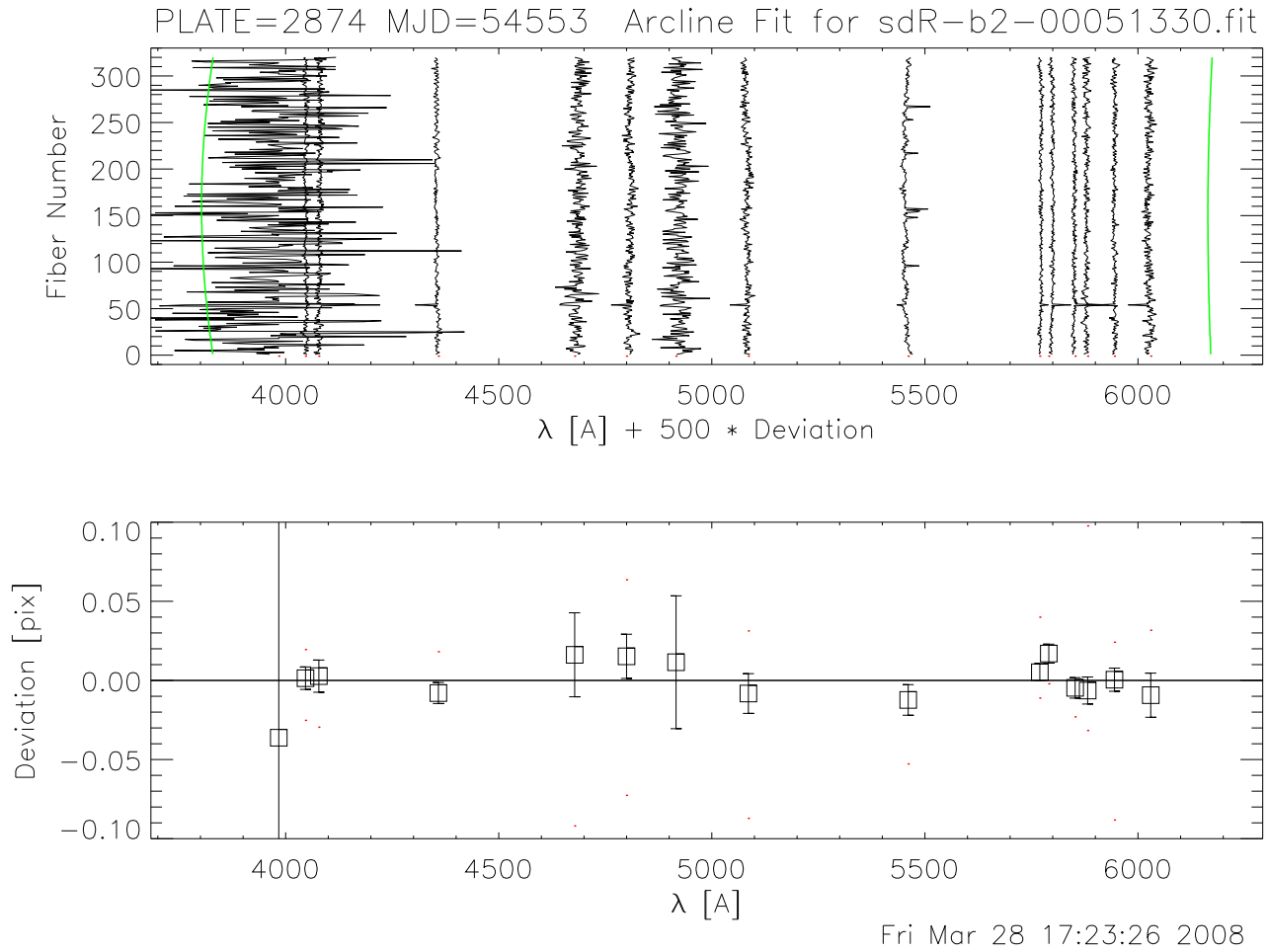

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber


PLATE=2874 MJD=54553 flat extraction chi^2 for sdR−b2−00051325.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=2874 MJD=54553 Superflat sdR-b2-00051325.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]


PLATE=2874 MJD=54553 flat extraction chi^2 for sdR−b2−00051329.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=2874 MJD=54553 Superflat sdR-b2-00051329.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]


PLATE=2874 MJD=54553 Arcline Fit for sdR-b2-00051330.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]
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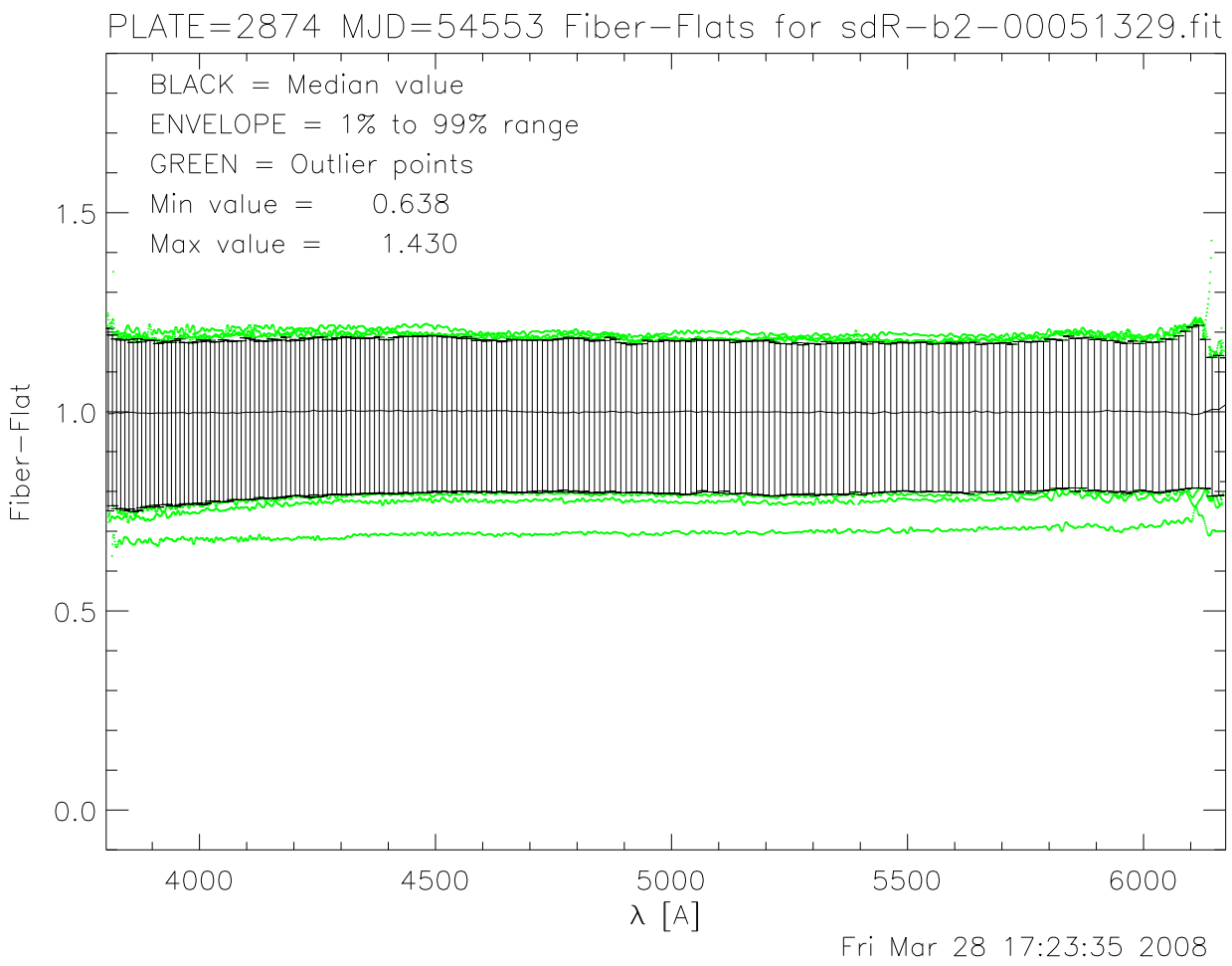
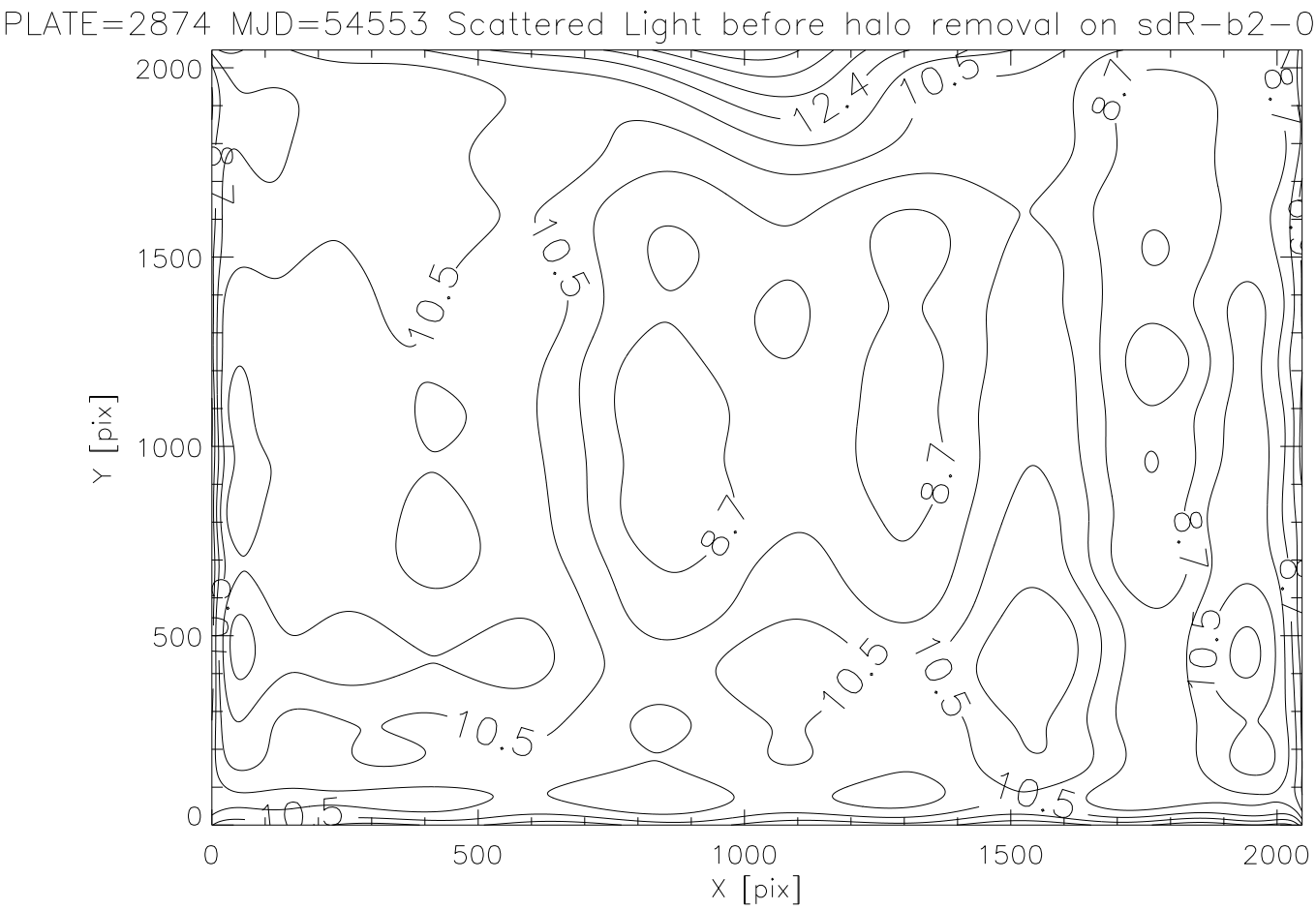
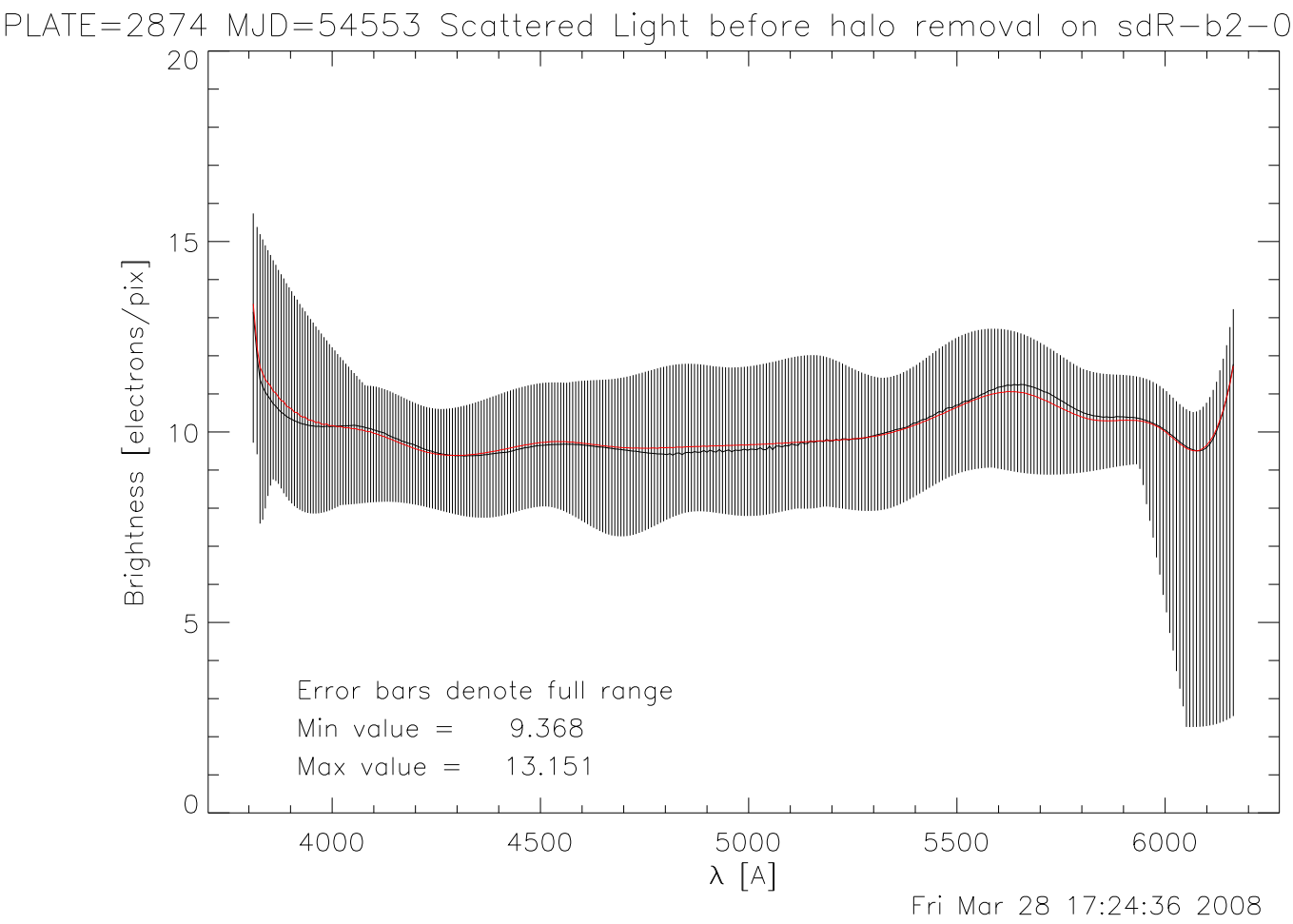
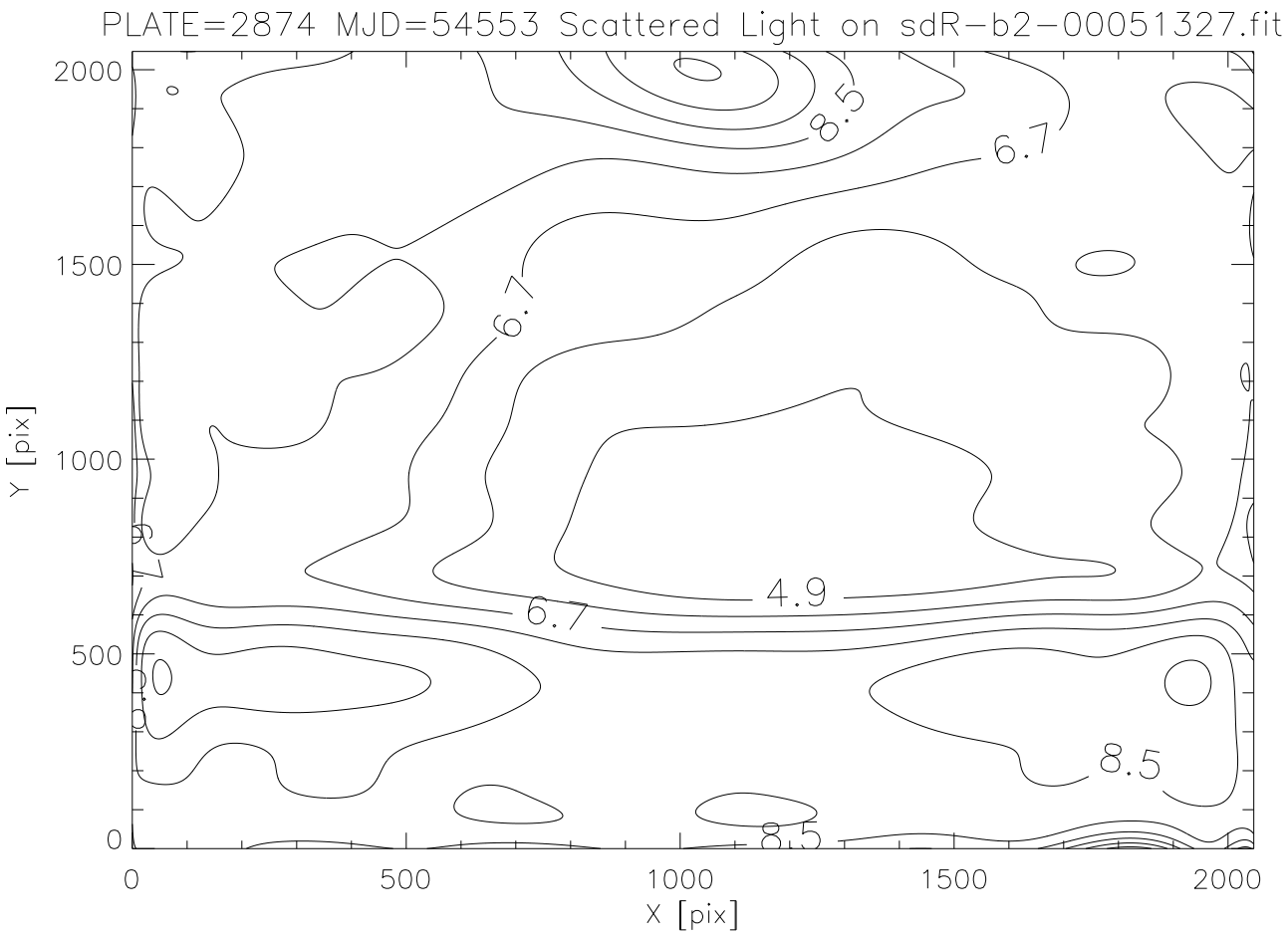
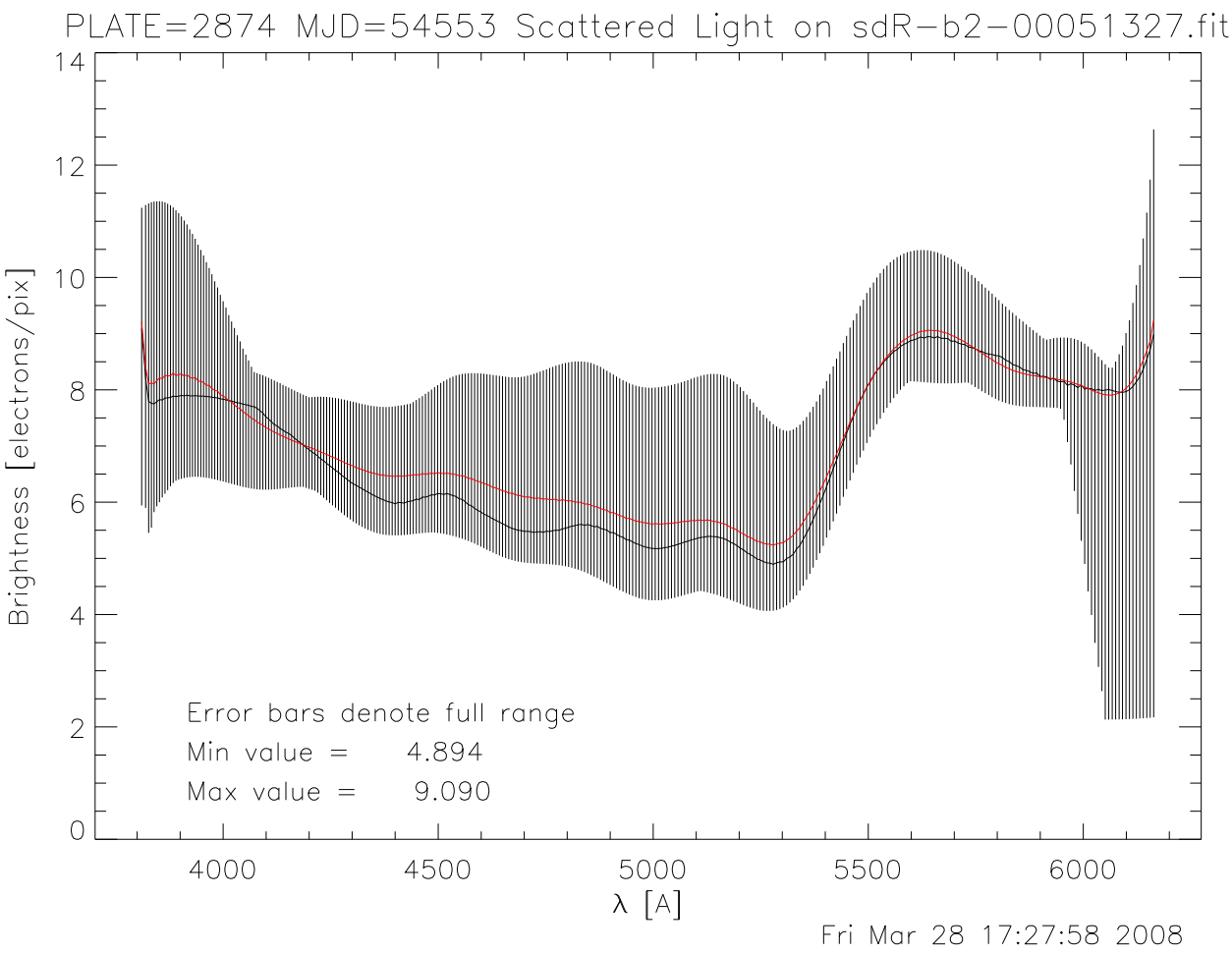

PLATE=2874 MJD=54553 Fiber-Flats for sdR-b2-00051329.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.638
Max value = 1.430
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Fri Mar 28 17:23:35 2008


PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR−b2−00051327.f
Y [pix]
X [pix]
0
500
1000
1500
2000
12.4
10.5
8.7
0


PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR−b2−00051327.f
Brightness [electrons/pix]
20
15
10
5
0
Error bars denote full range
Min value = 9.368
Max value = 13.151
4000
4500
5000
5500
6000
λ [A]
Fri Mar 28 17:24:36 2008


PLATE=2874 MJD=54553 Scattered Light on sdR-b2-00051327.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.5
6.7
6.7
4.9
6.7
8.5
8.5


PLATE=2874 MJD=54553 Scattered Light on sdR-b2-00051327.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.894
Max value = 9.090
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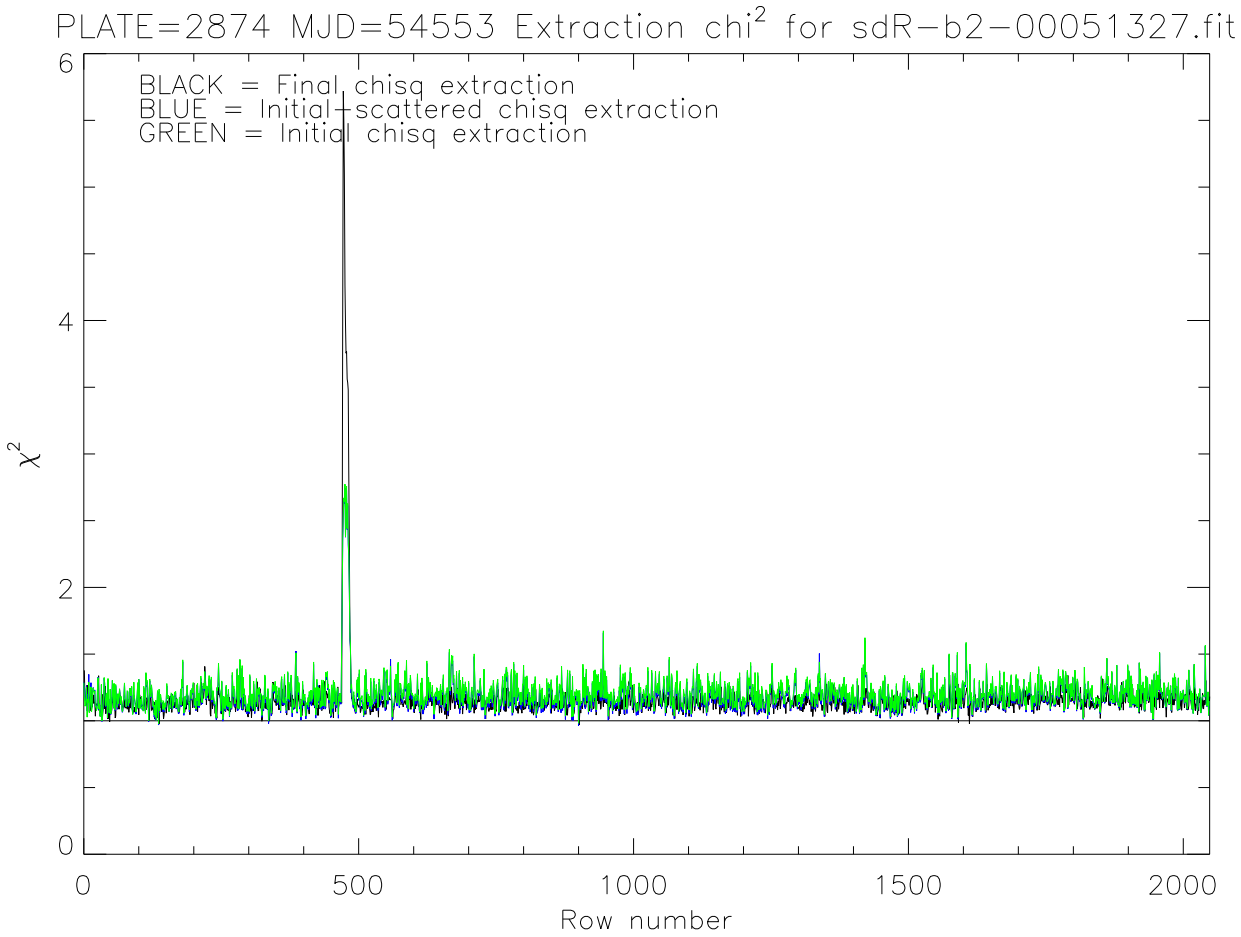
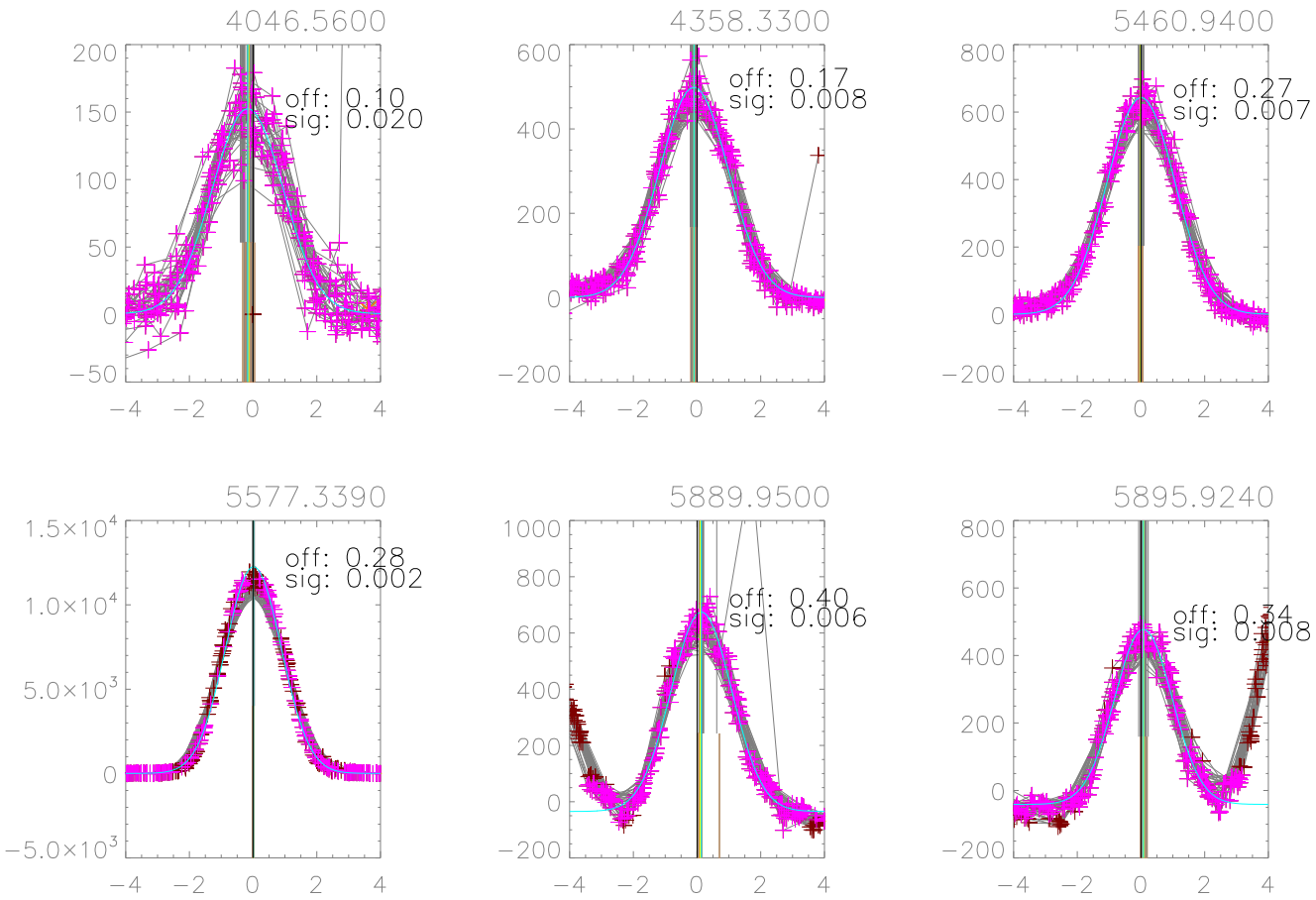
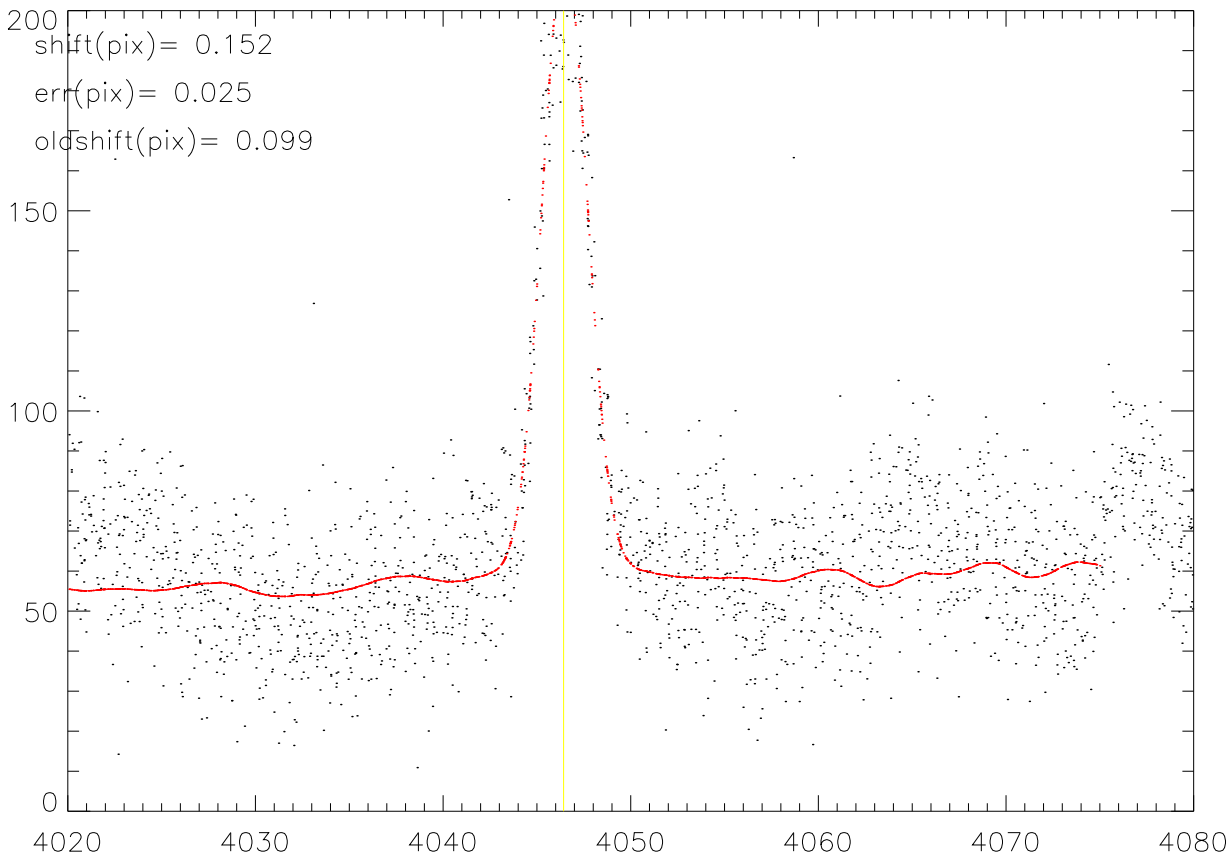
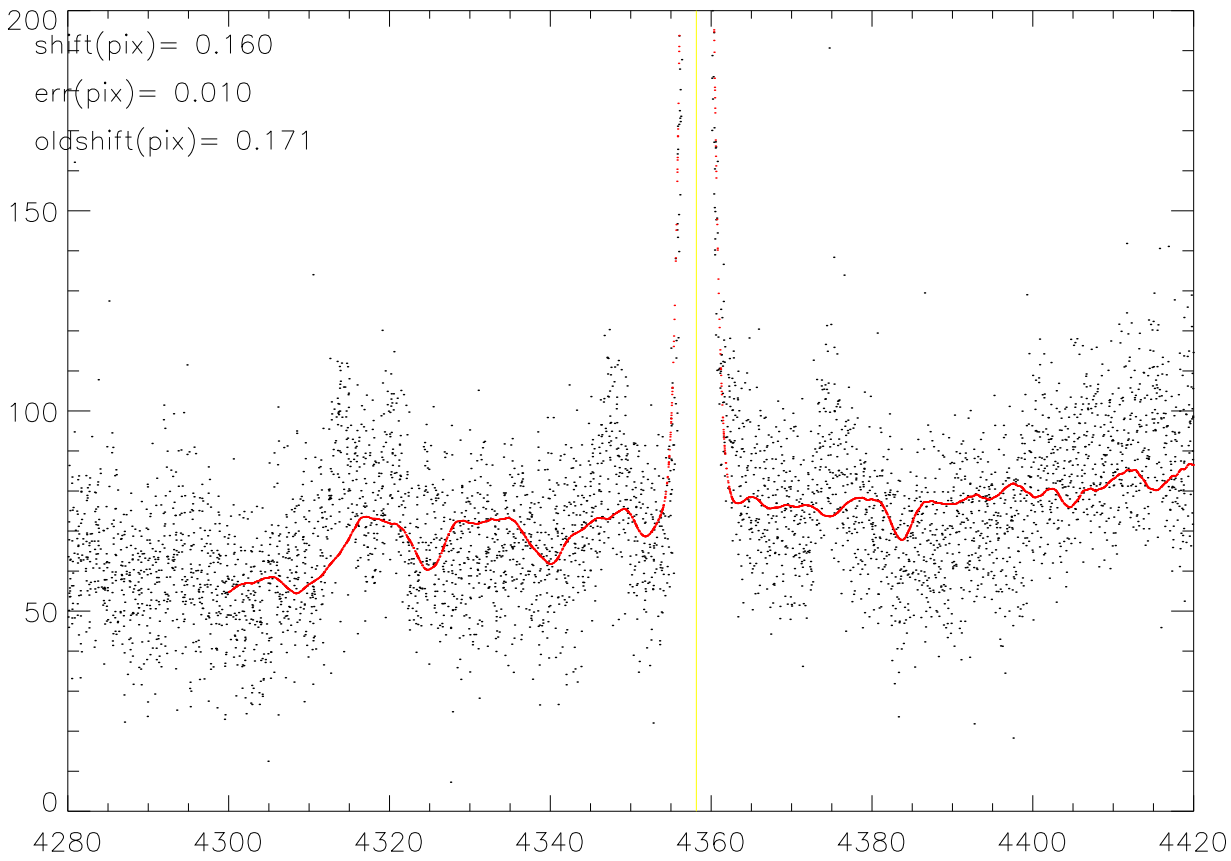
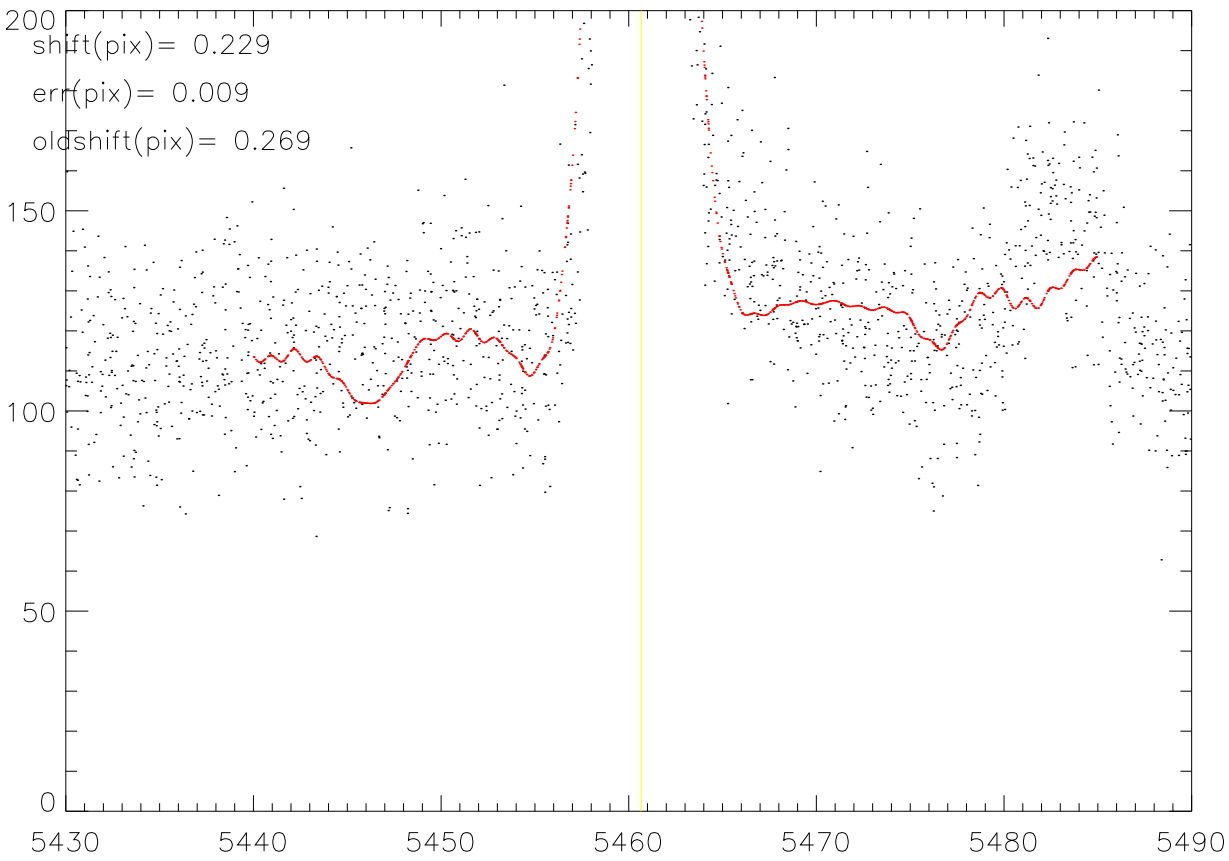
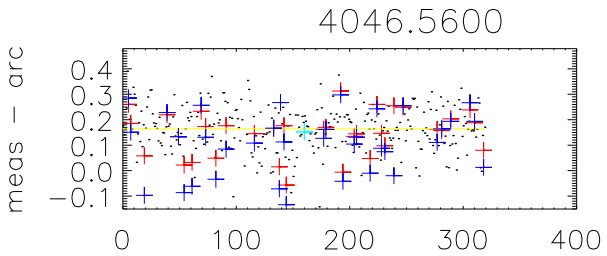

PLATE=2874 MJD=54553 Extraction chi^2 for sdR-b2-00051327.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

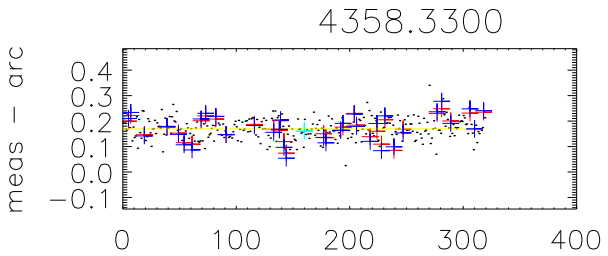

4046.5600
off: 0.10
sig: 0.020
4358.3300
off: 0.17
sig: 0.008
5460.9400
off: 0.27
sig: 0.007
5577.3390
off: 0.28
sig: 0.002
5889.9500
off: 0.40
sig: 0.006
5895.9240
off: 0.34
sig: 0.008

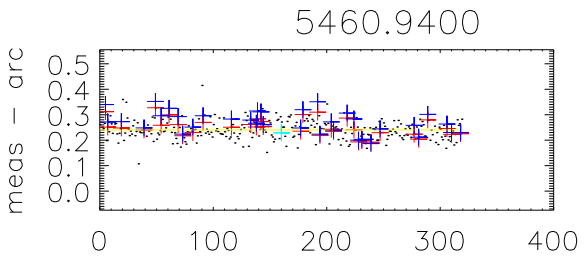

shift(pix)= 0.152
err(pix)= 0.025
oldshift(pix)= 0.099
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

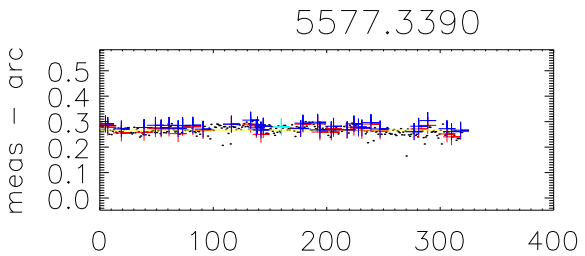

shift(pix)= 0.160
err(pix)= 0.010
oldshift(pix)= 0.171
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

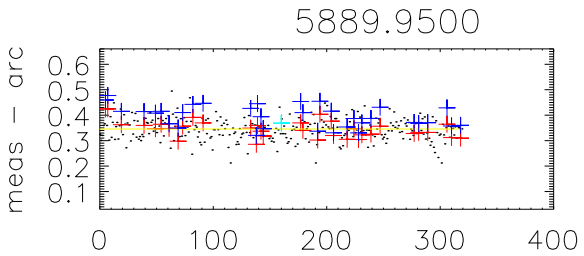

shift(pix)= 0.229
err(pix)= 0.009
oldshift(pix)= 0.269
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

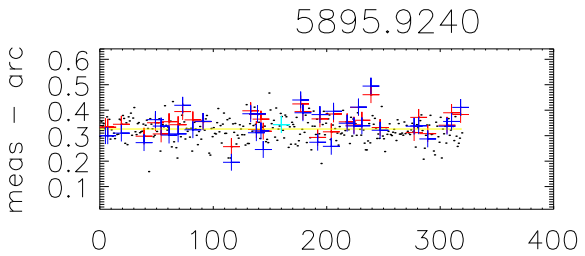

4046.5600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

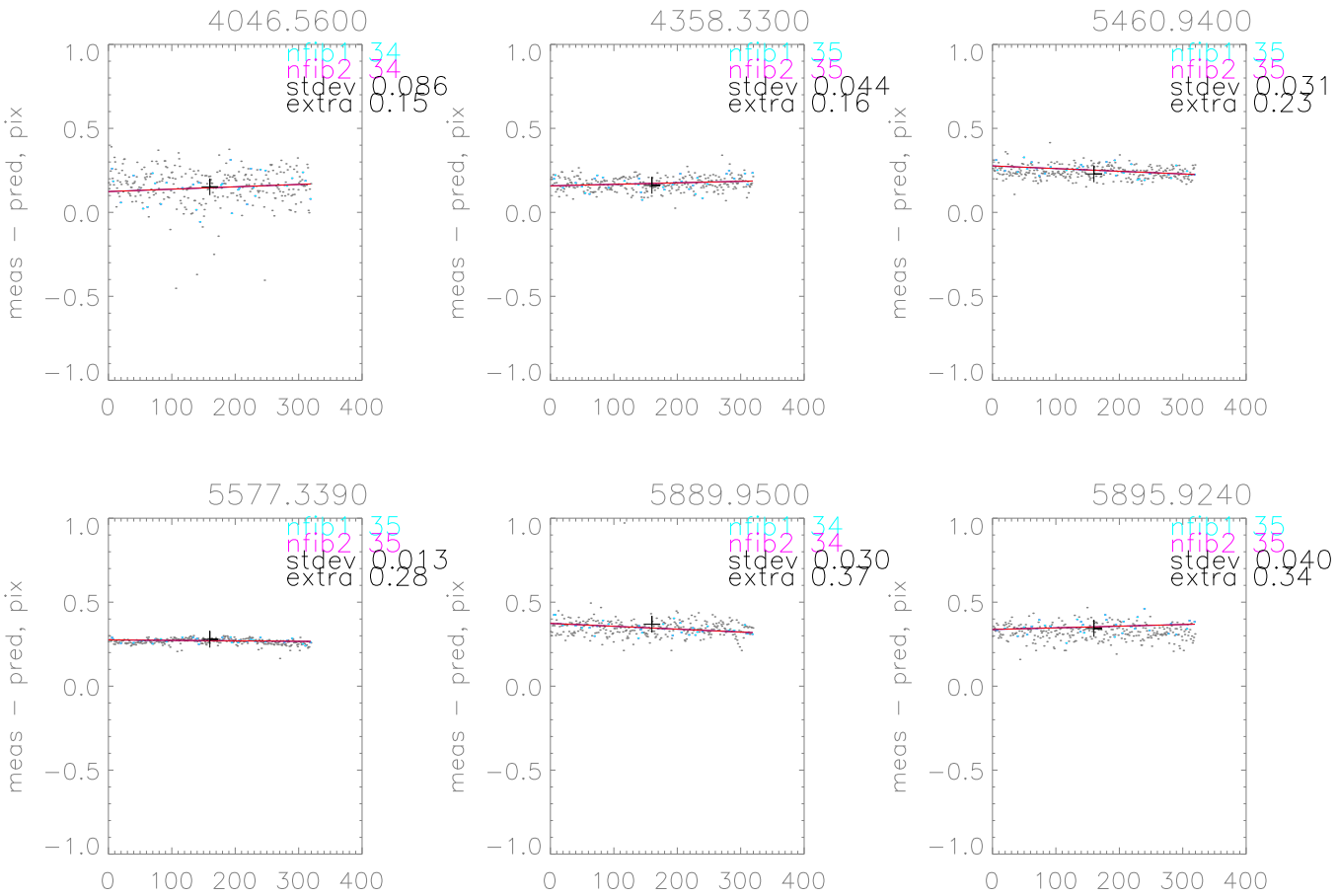

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

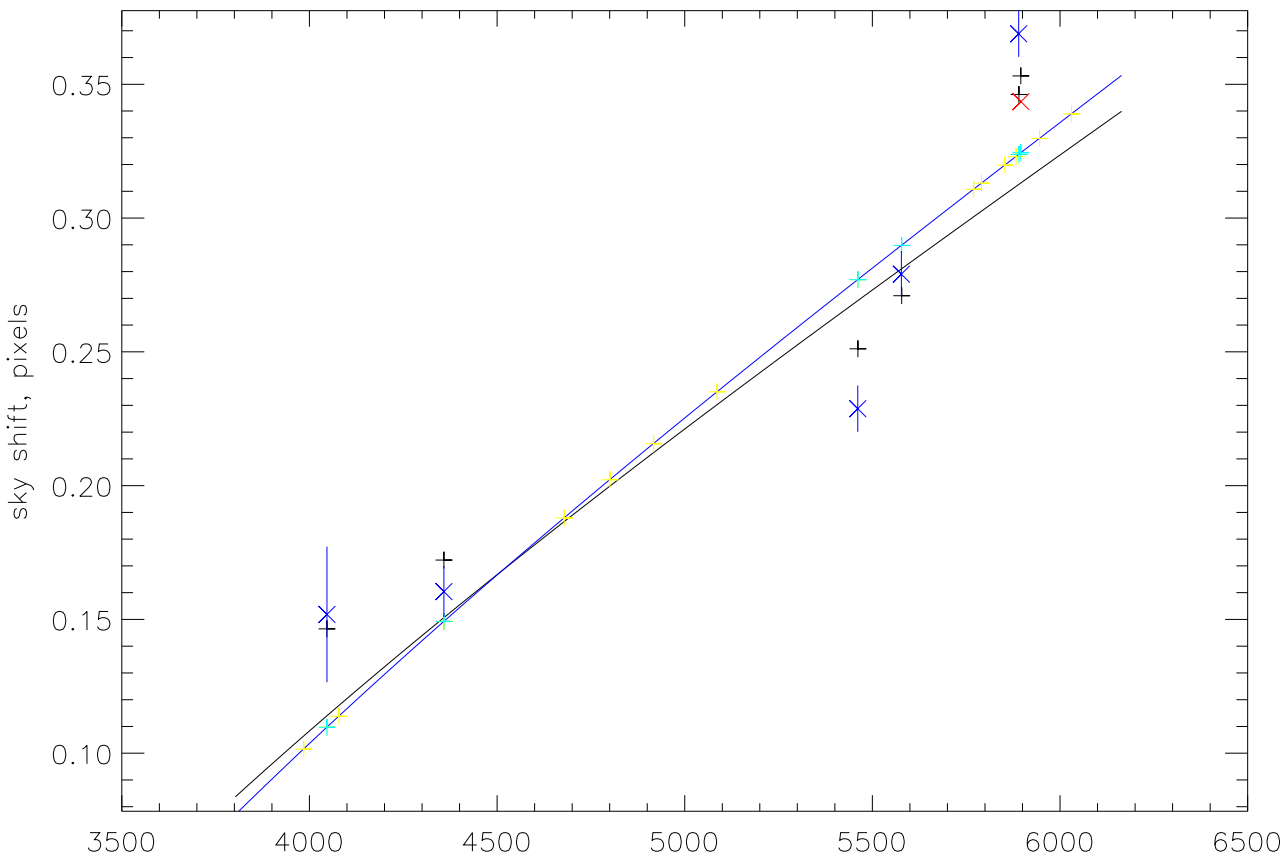

5460.9400
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

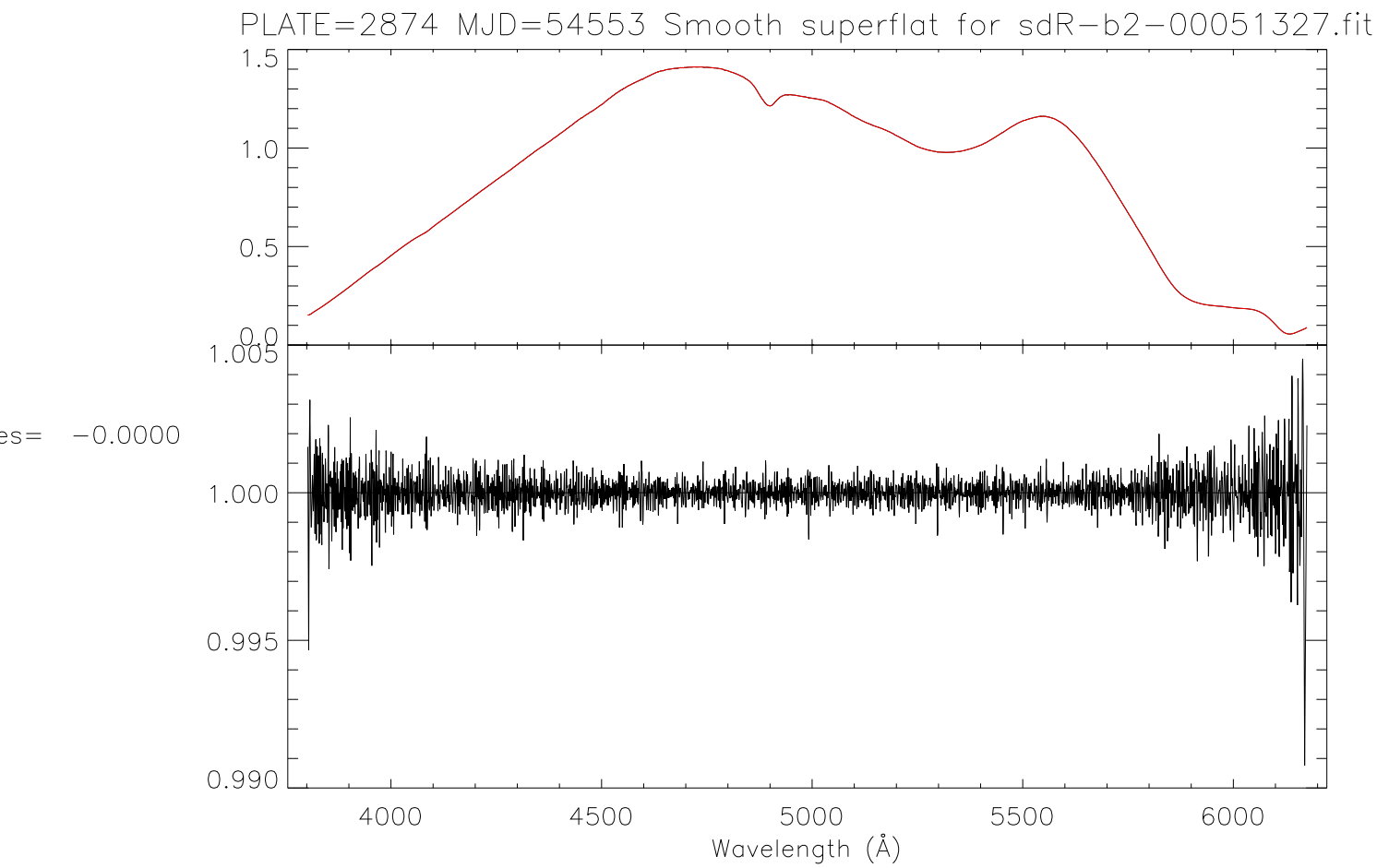

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

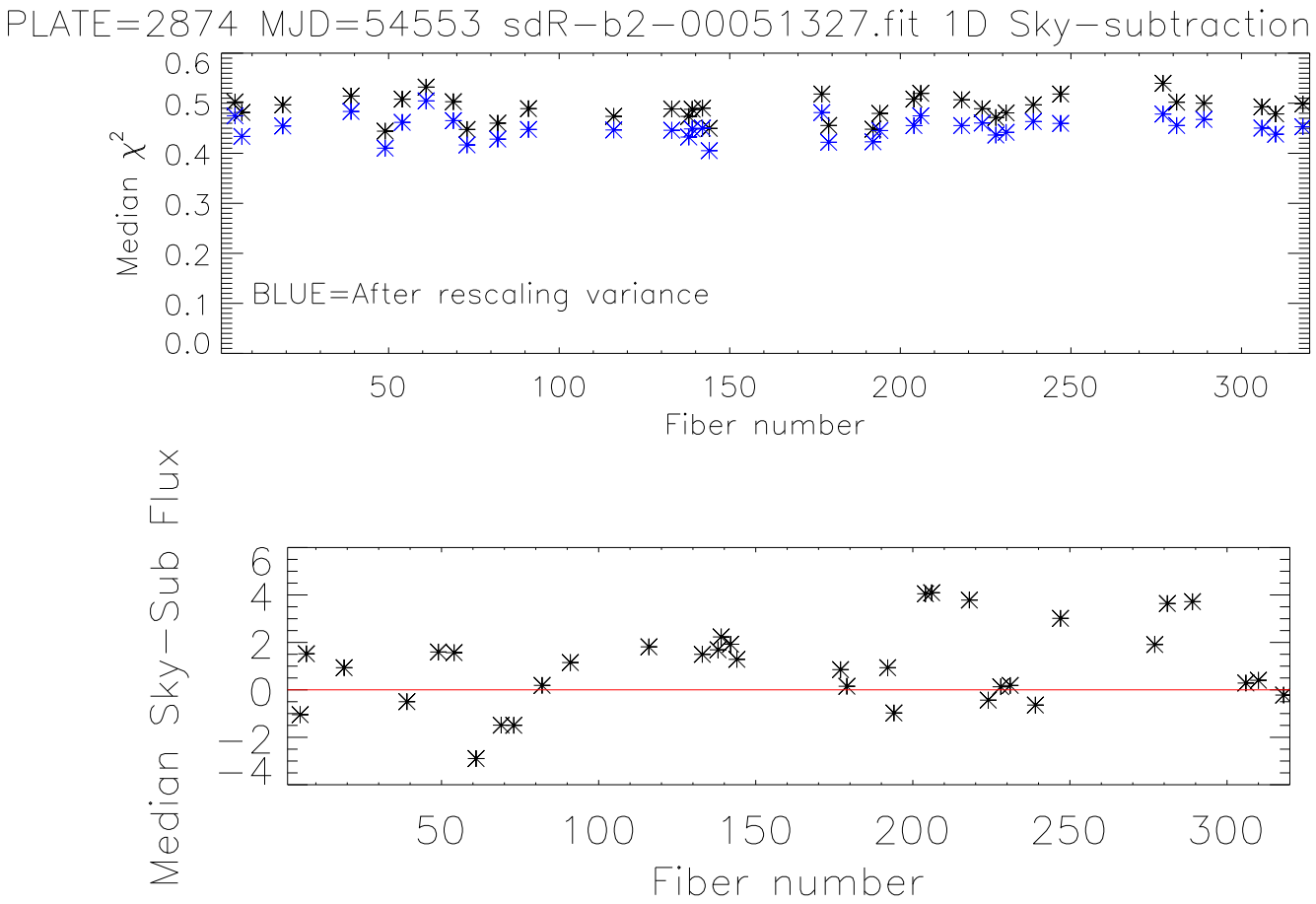

5889.9500
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

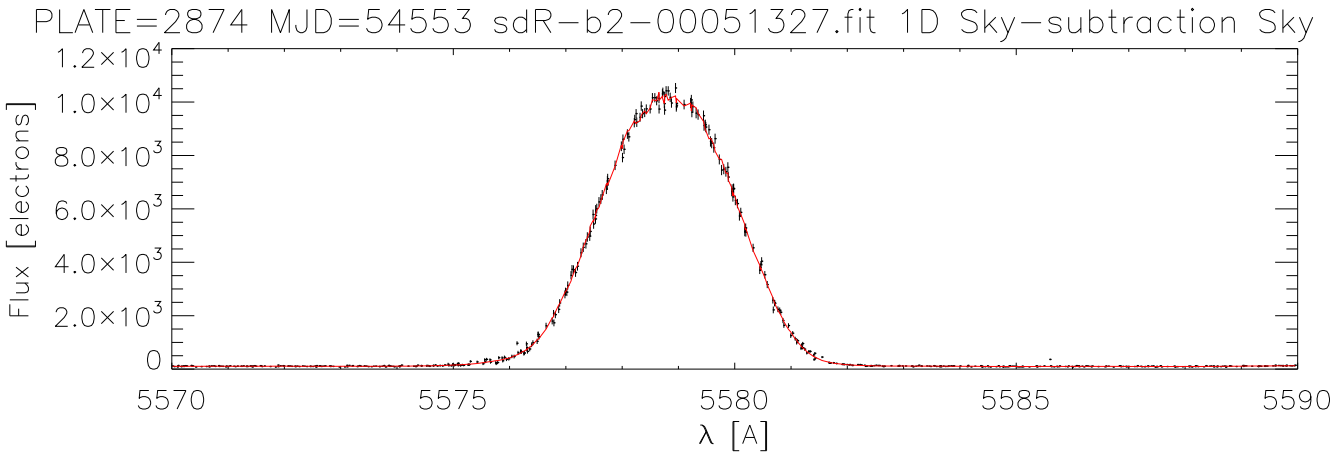

5895.9240
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

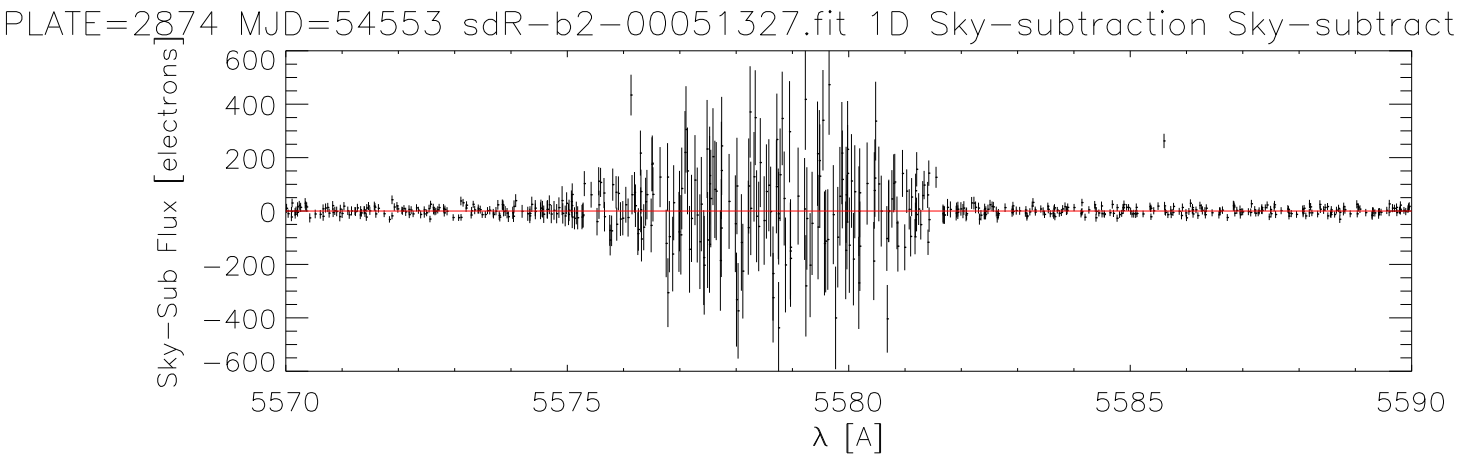

4046.5600
nfib1 34
nfib2 34
stdev 0.086
extra 0.15
4358.3300
nfib1 35
nfib2 35
stdev 0.044
extra 0.16
5460.9400
nfib1 35
nfib2 35
stdev 0.031
extra 0.23
5577.3390
nfib1 35
nfib2 35
stdev 0.013
extra 0.28
5889.9500
nfib1 34
nfib2 34
stdev 0.030
extra 0.37
5895.9240
nfib1 35
nfib2 35
stdev 0.040
extra 0.34
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

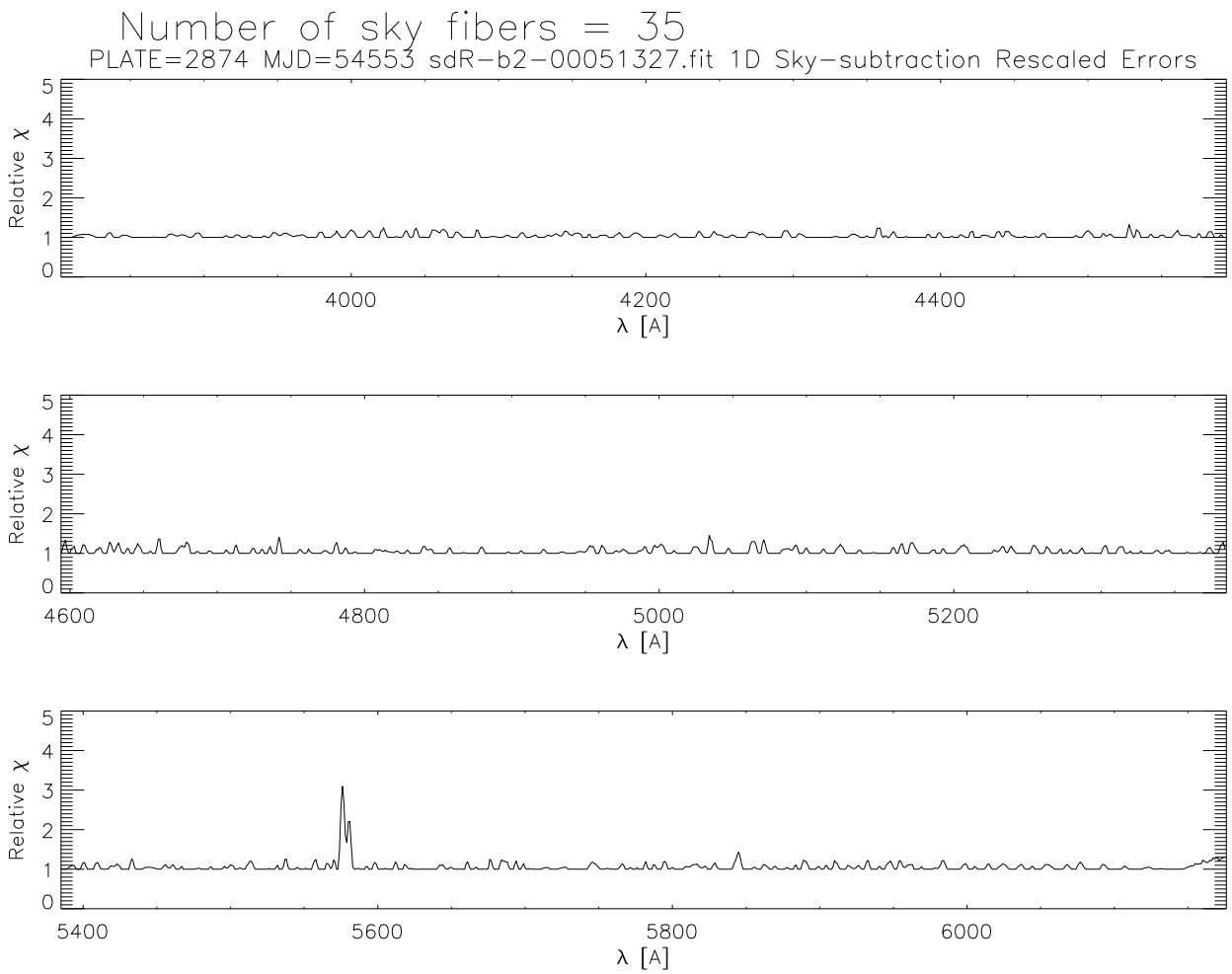

sky shift, pixels
0.10
0.15
0.20
0.25
0.30
0.35
3500
4000
4500
5000
5500
6000
6500

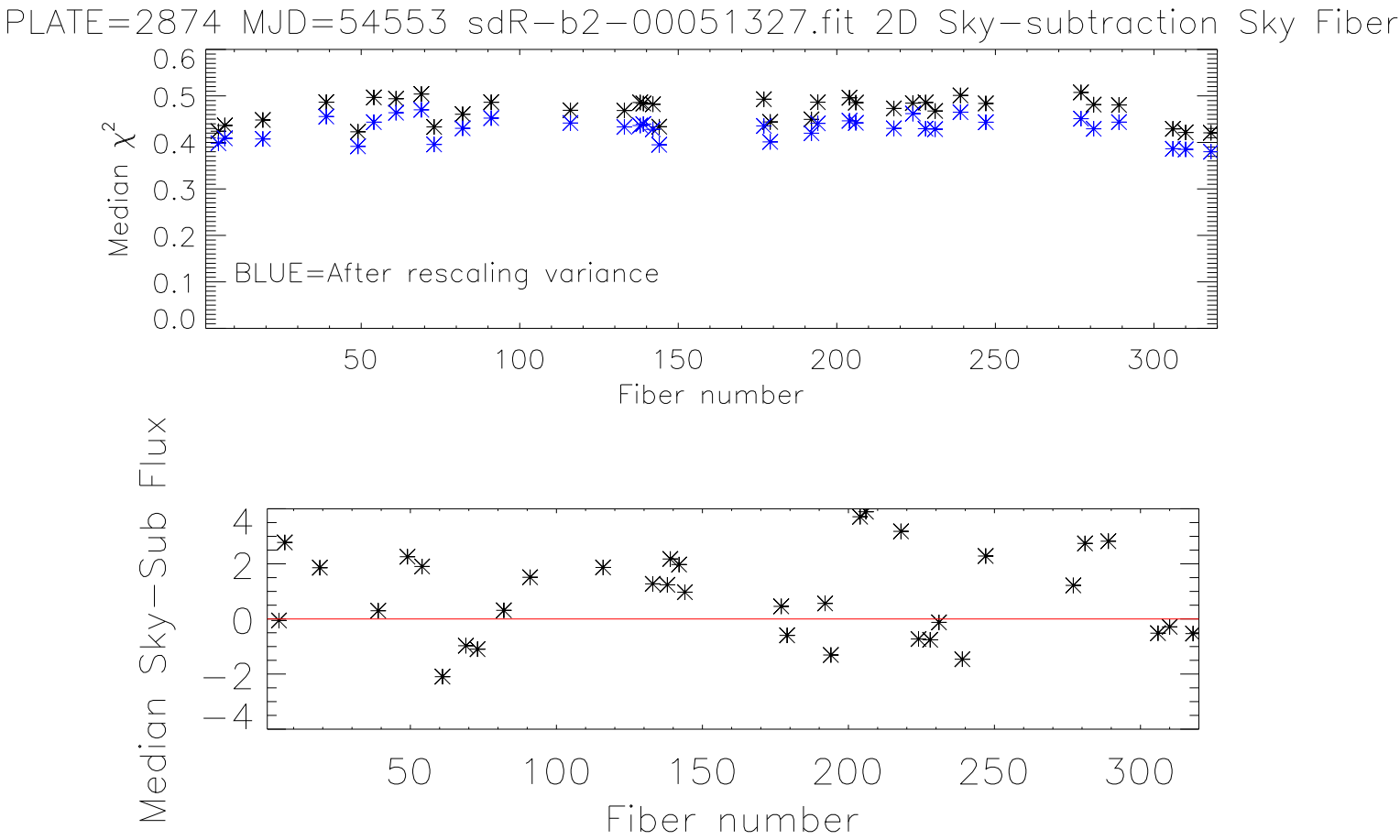

PLATE=2874 MJD=54553 Smooth superflat for sdR-b2-00051327.fit
1.5
1.0
0.5
0.0
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

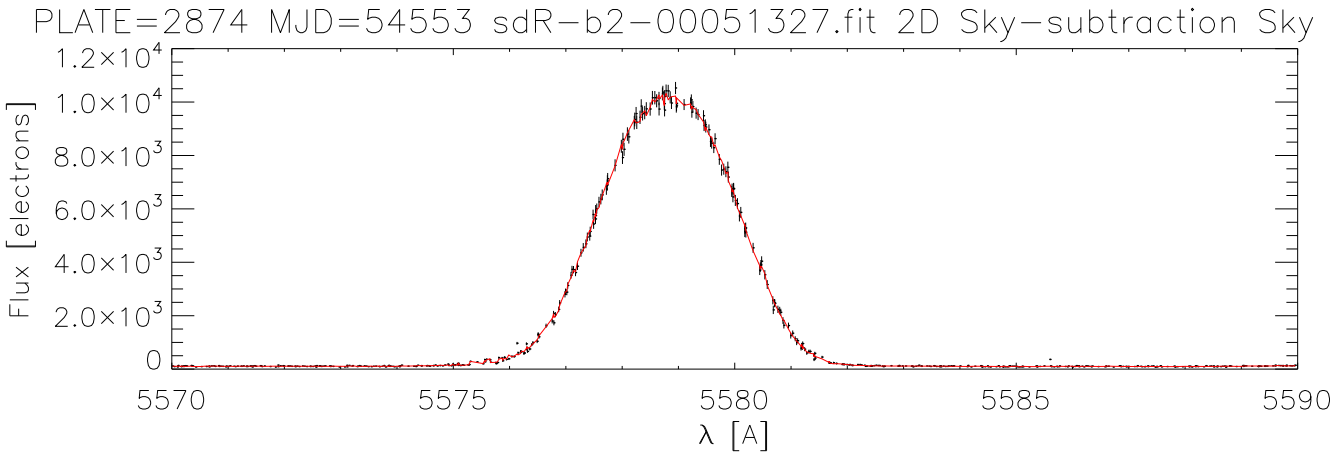

PLATE=2874 MJD=54553 sdR-b2-00051327.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

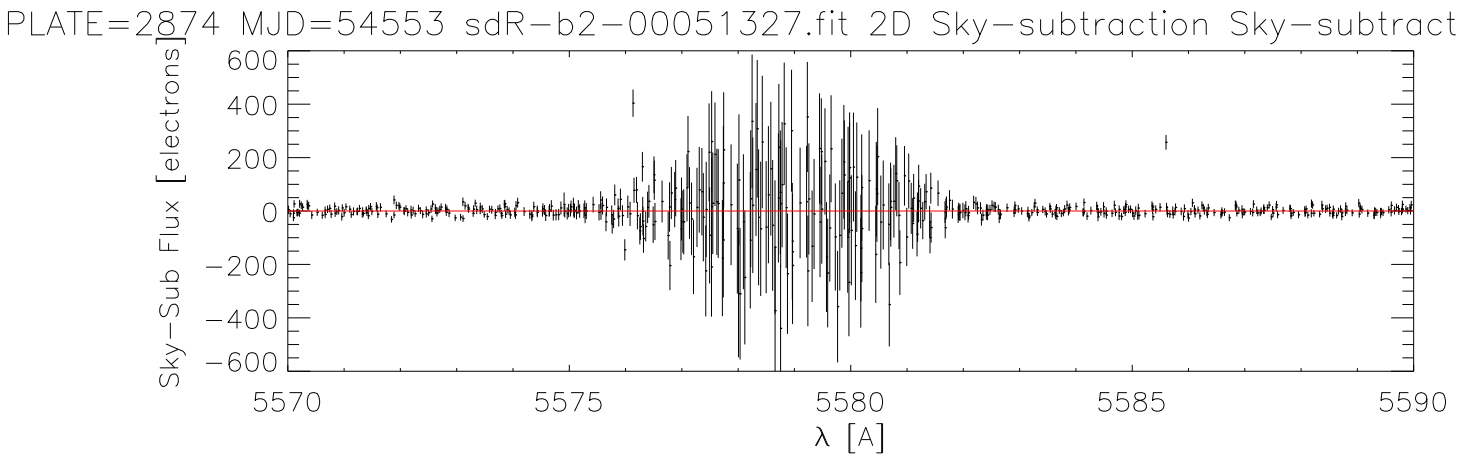

PLATE=2874 MJD=54553 sdR-b2-00051327.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

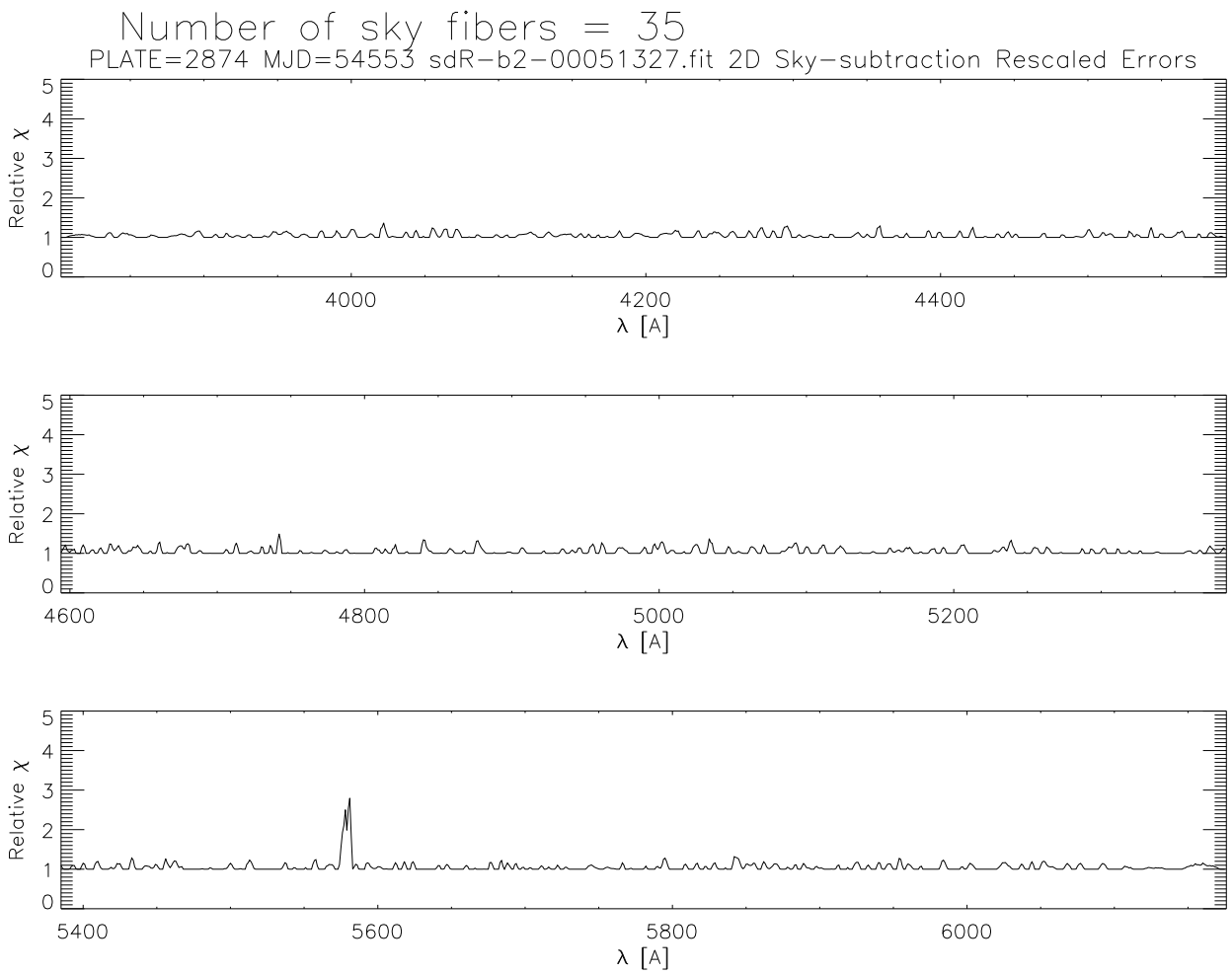

PLATE=2874 MJD=54553 sdR-b2-00051327.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
−600
5570
5575
5580
5585
5590
λ [A]

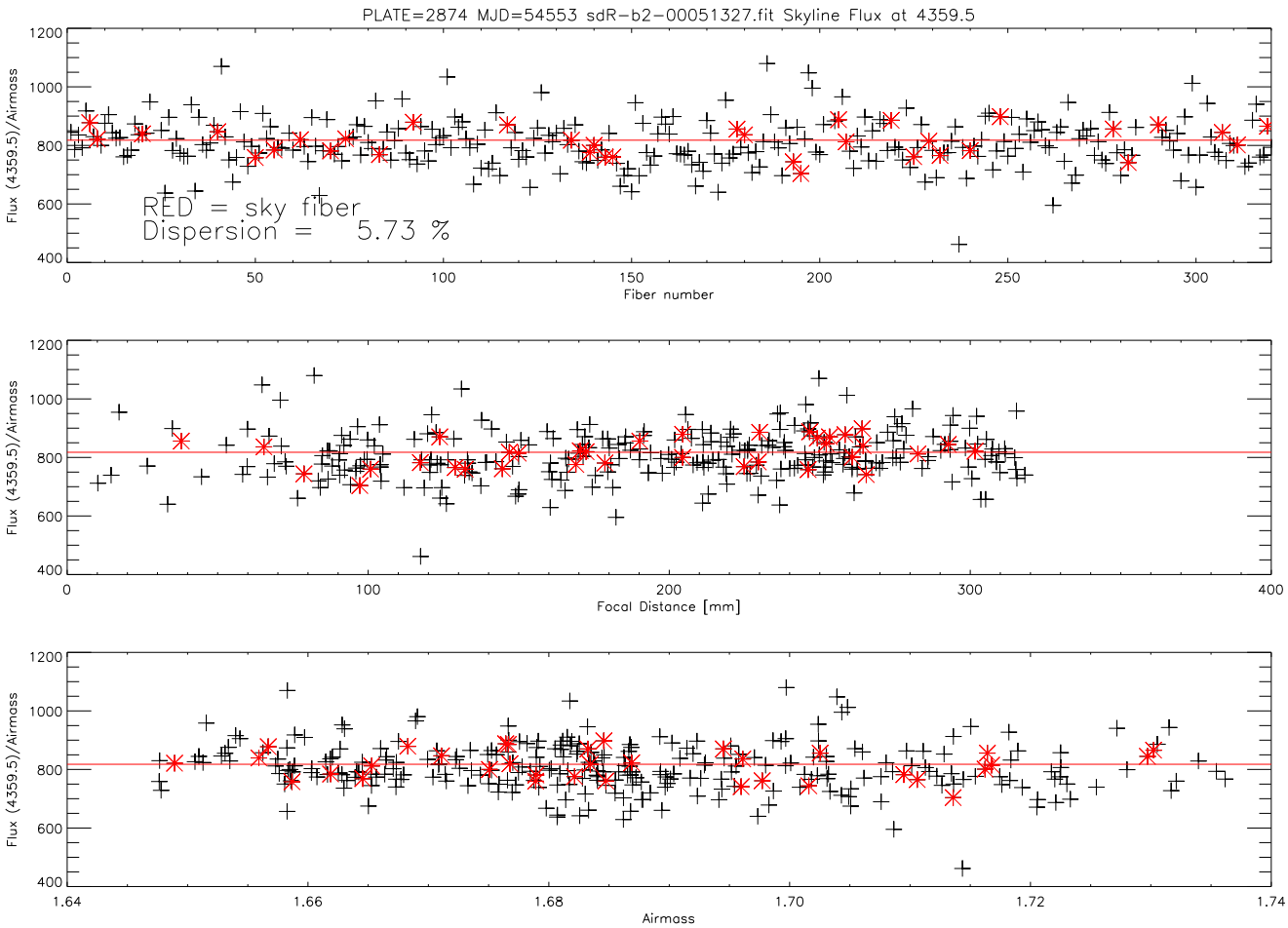

Number of sky fibers = 35
PLATE=2874 MJD=54553 sdR-b2-00051327.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

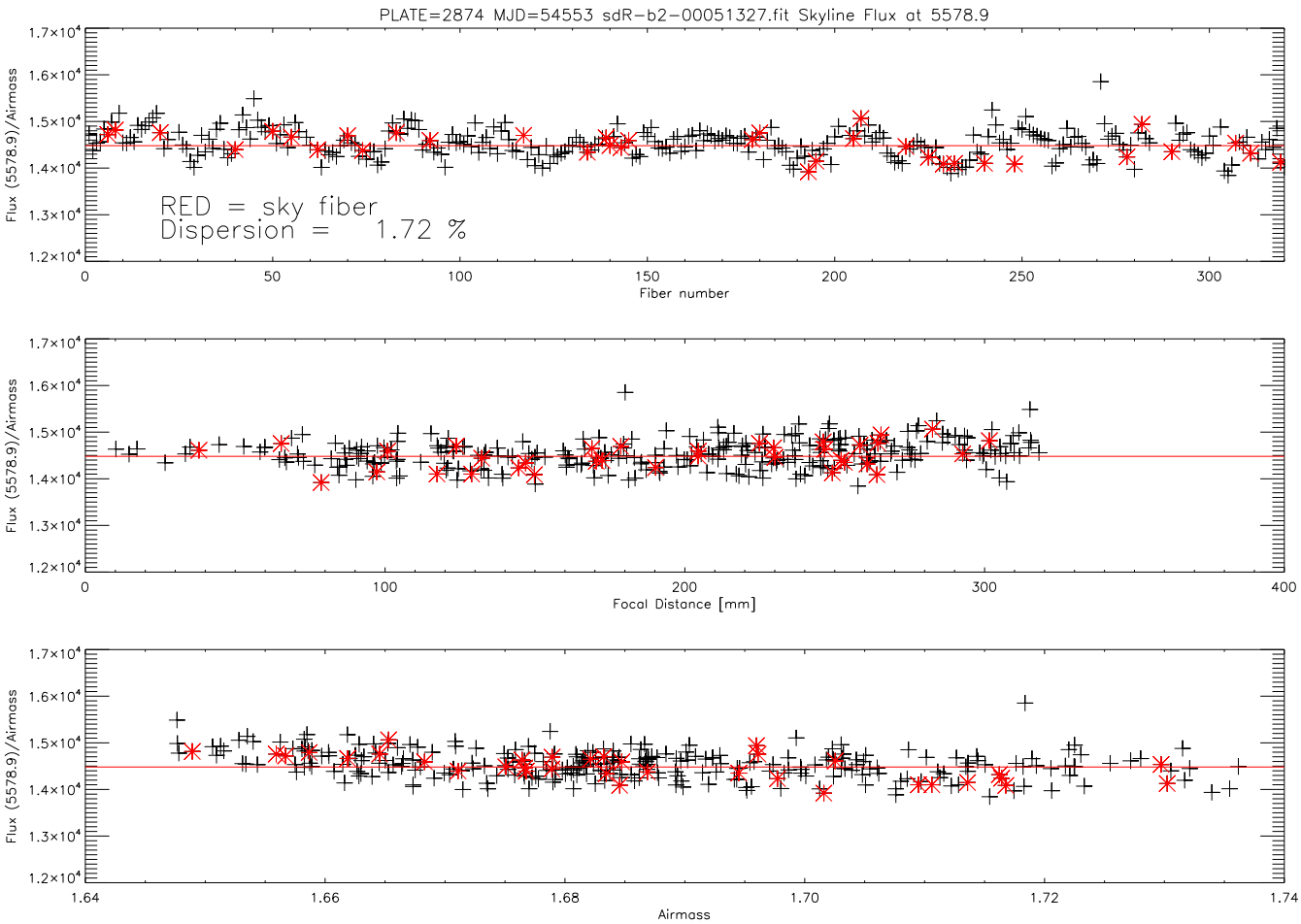

PLATE=2874 MJD=54553 sdR-b2-00051327.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

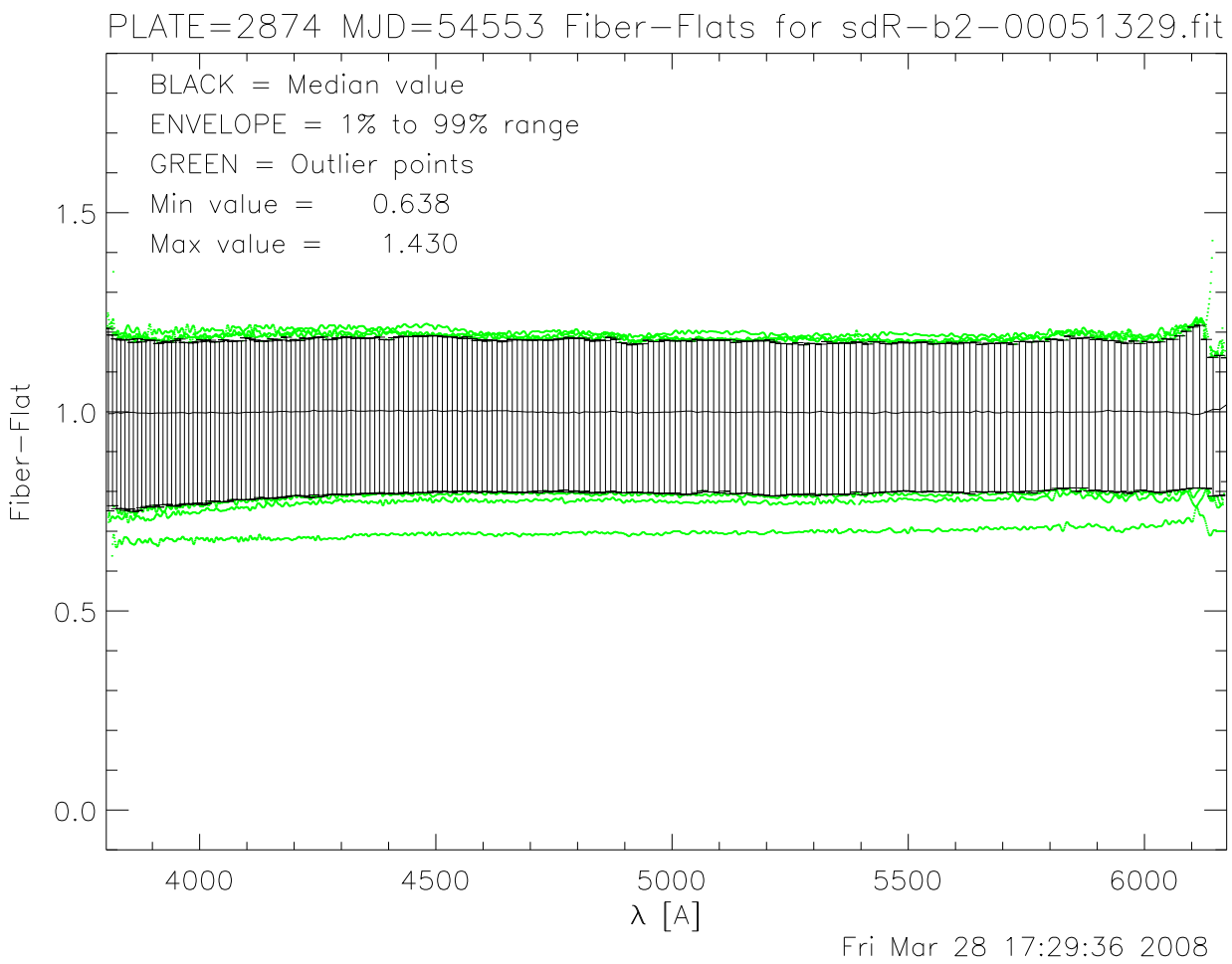

PLATE=2874 MJD=54553 sdR-b2-00051327.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
5570
5575
5580
5585
5590
λ [A]


PLATE=2874 MJD=54553 sdR-b2-00051327.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
−600
5570
5575
5580
5585
5590
λ [A]


Number of sky fibers = 35
PLATE=2874 MJD=54553 sdR-b2-00051327.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000


PLATE=2874 MJD=54553 sdR-b2-00051327.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 5.73 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass


PLATE=2874 MJD=54553 sdR-b2-00051327.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.72 %
Fiber number
Focal Distance [mm]
Airmass


PLATE=2874 MJD=54553 Fiber-Flats for sdR-b2-00051329.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.638
Max value = 1.430
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
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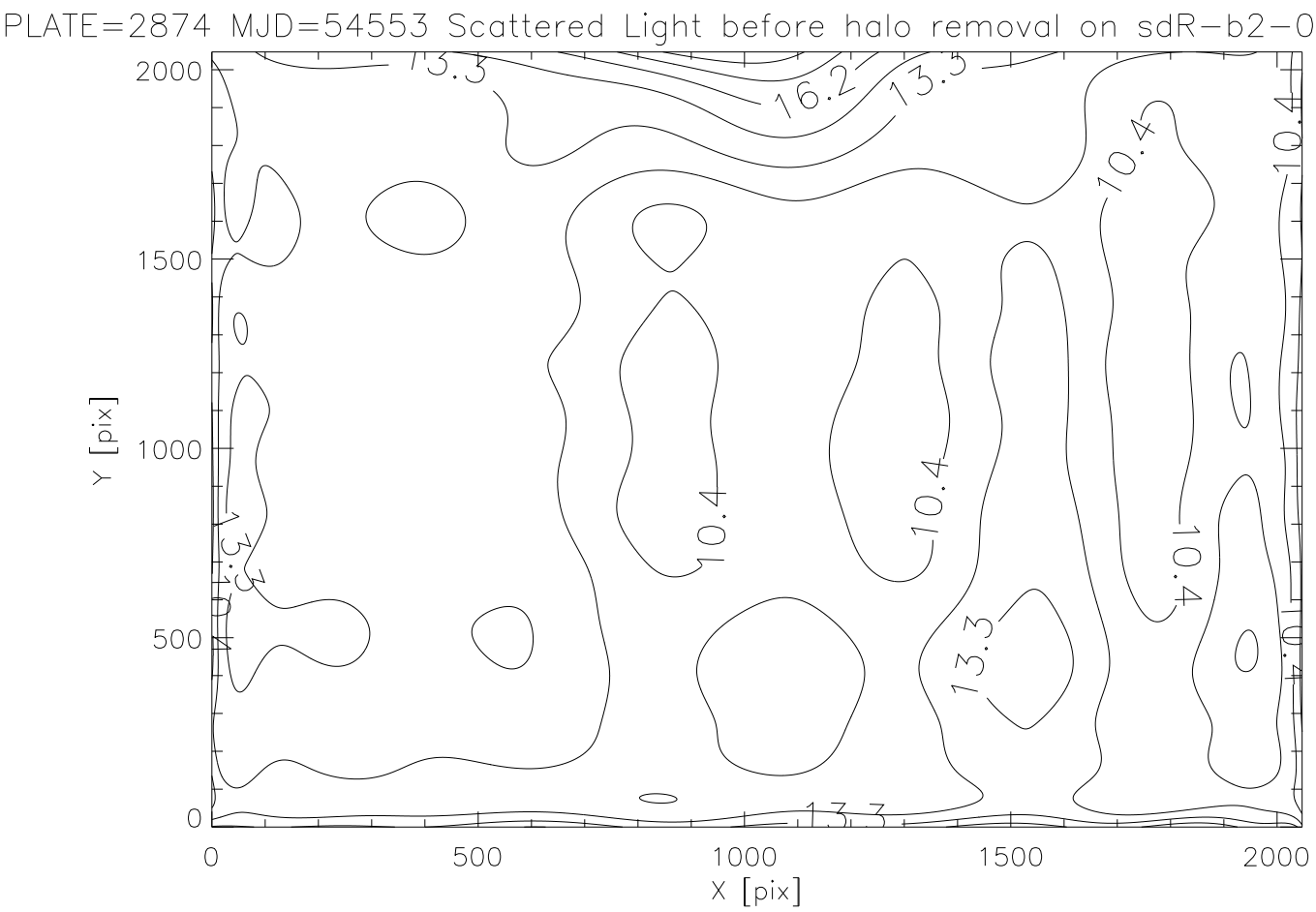
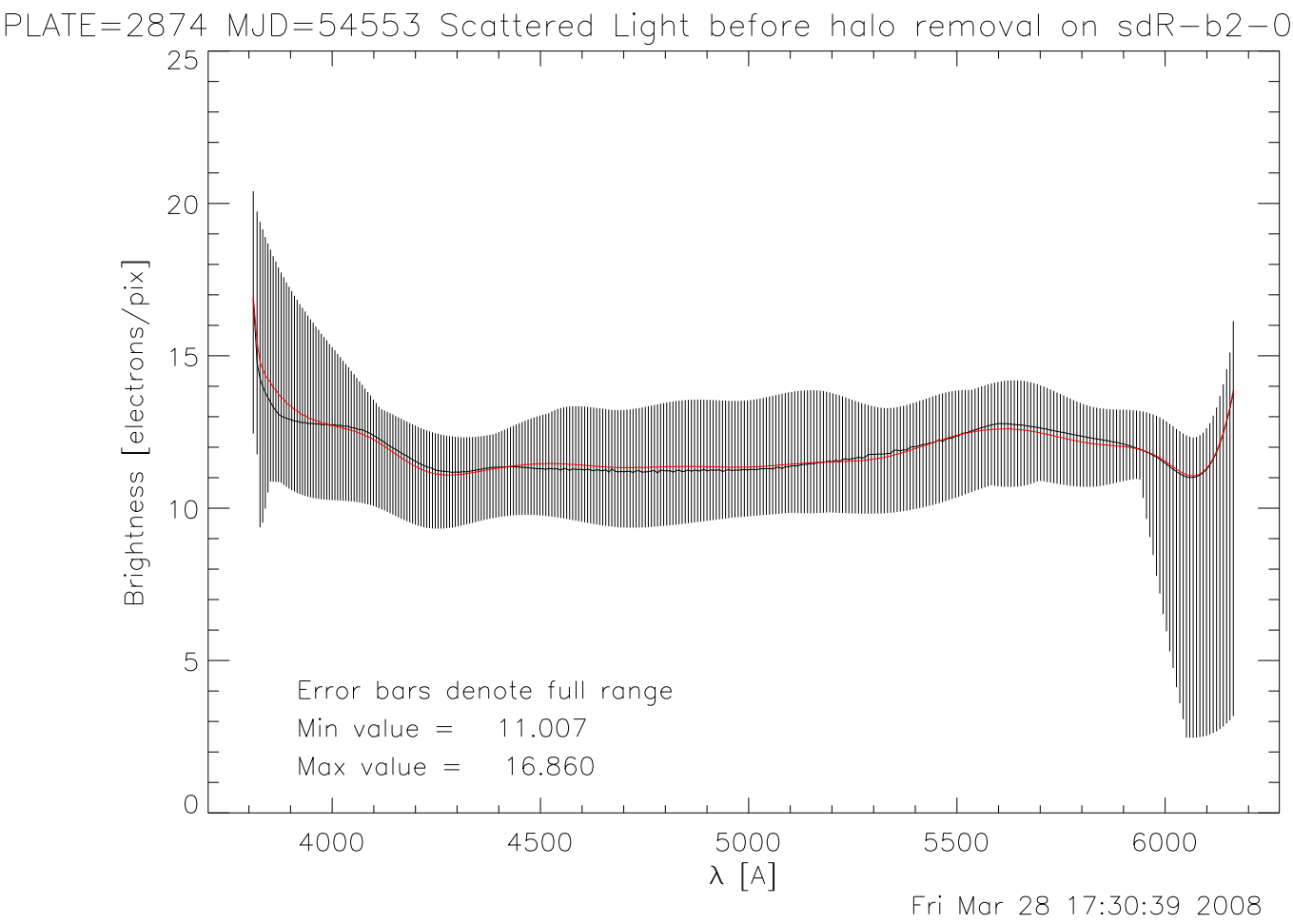
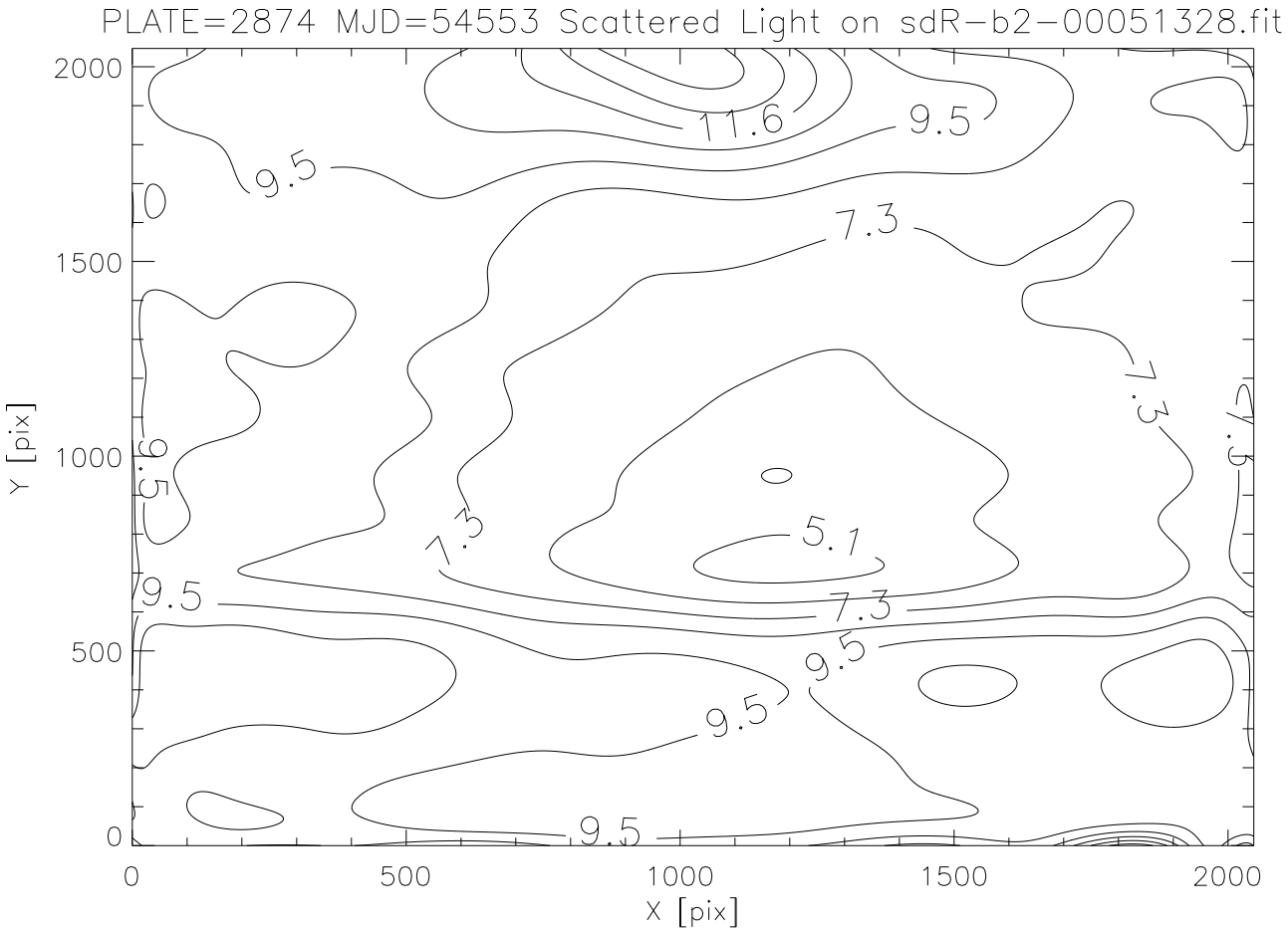
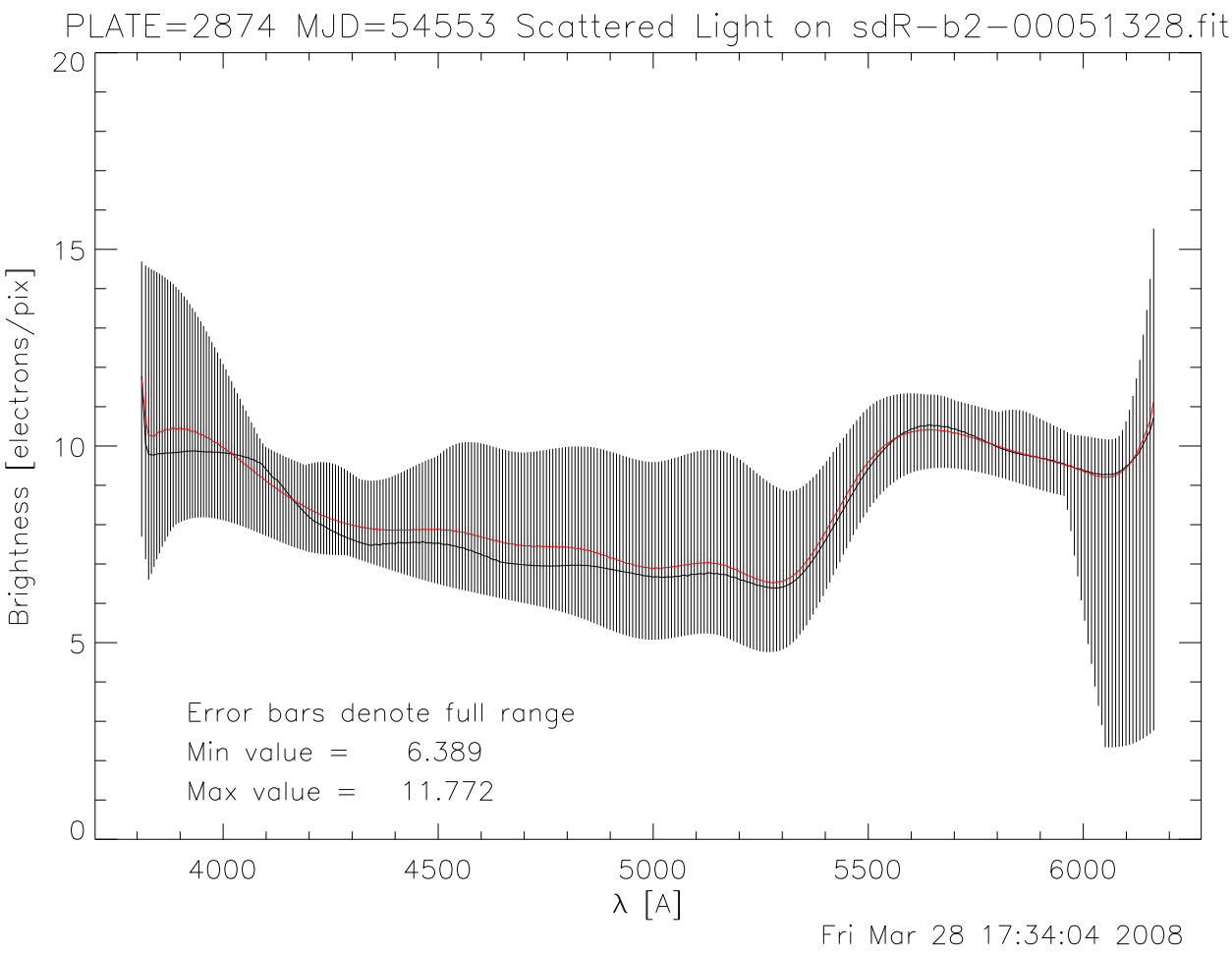
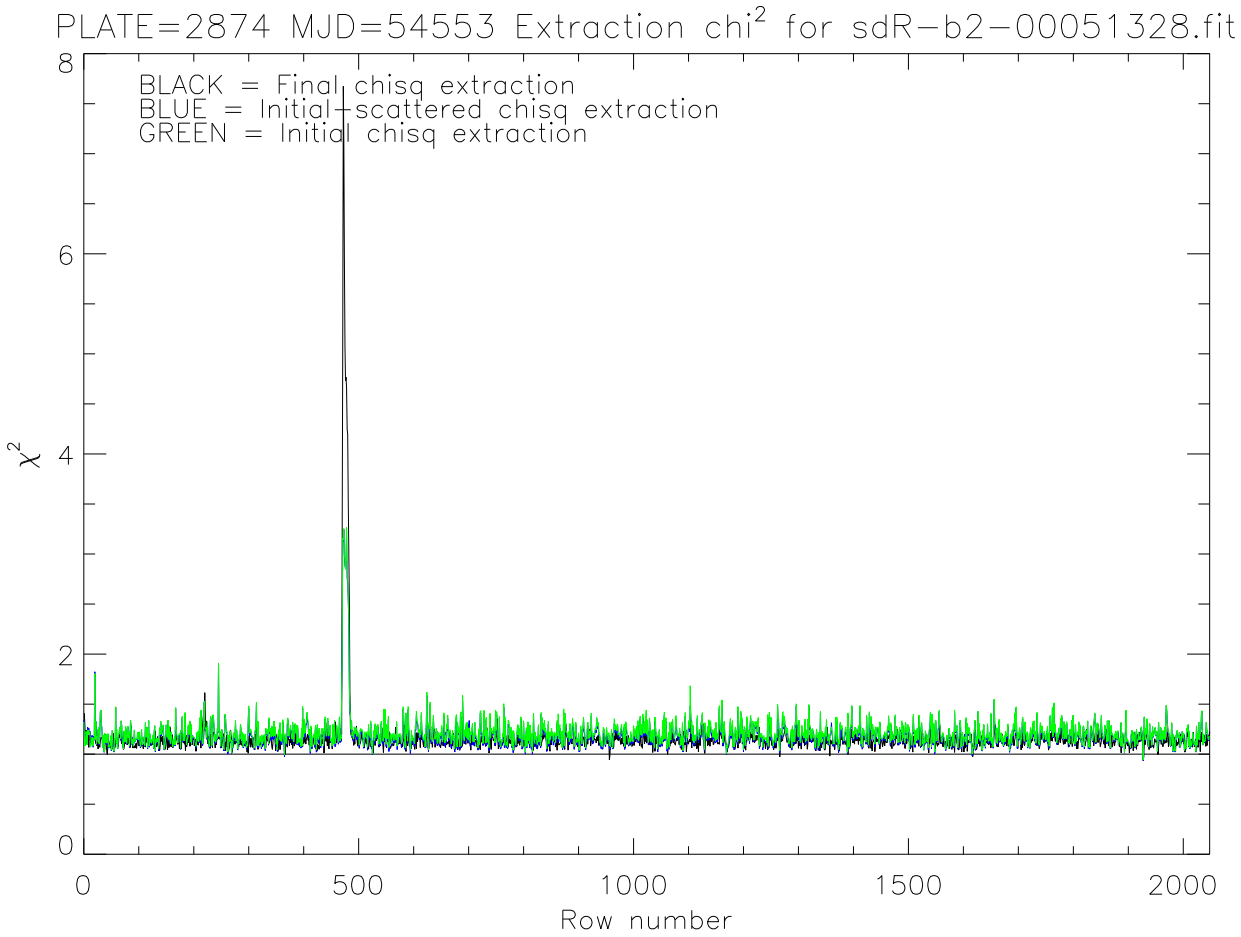
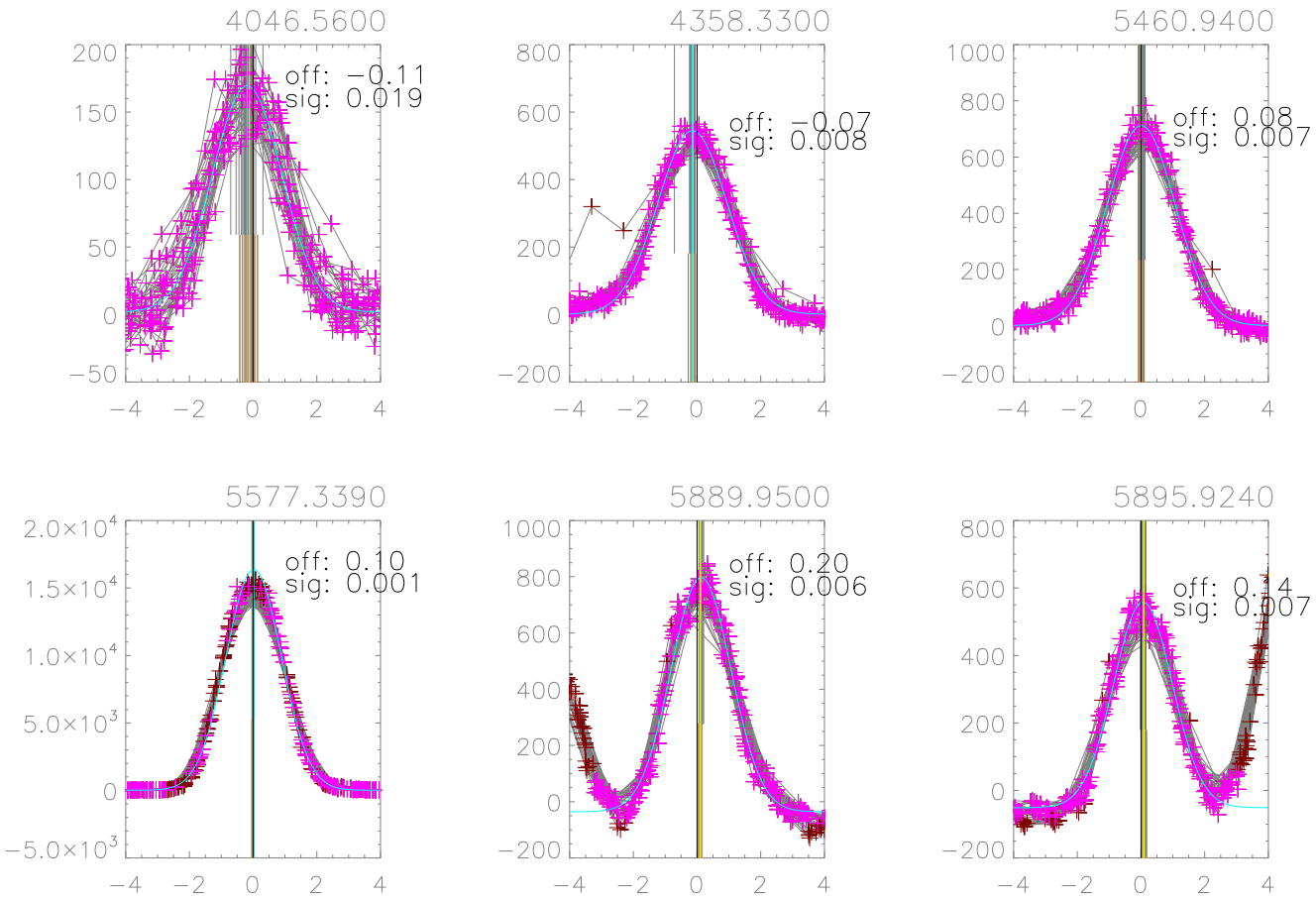

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR-b2-00051328.f
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
13.3
16.2
13.3
10.4
10.4
10.4
10.4
10.4
13.3
13.3
13.3
0
0
13.3

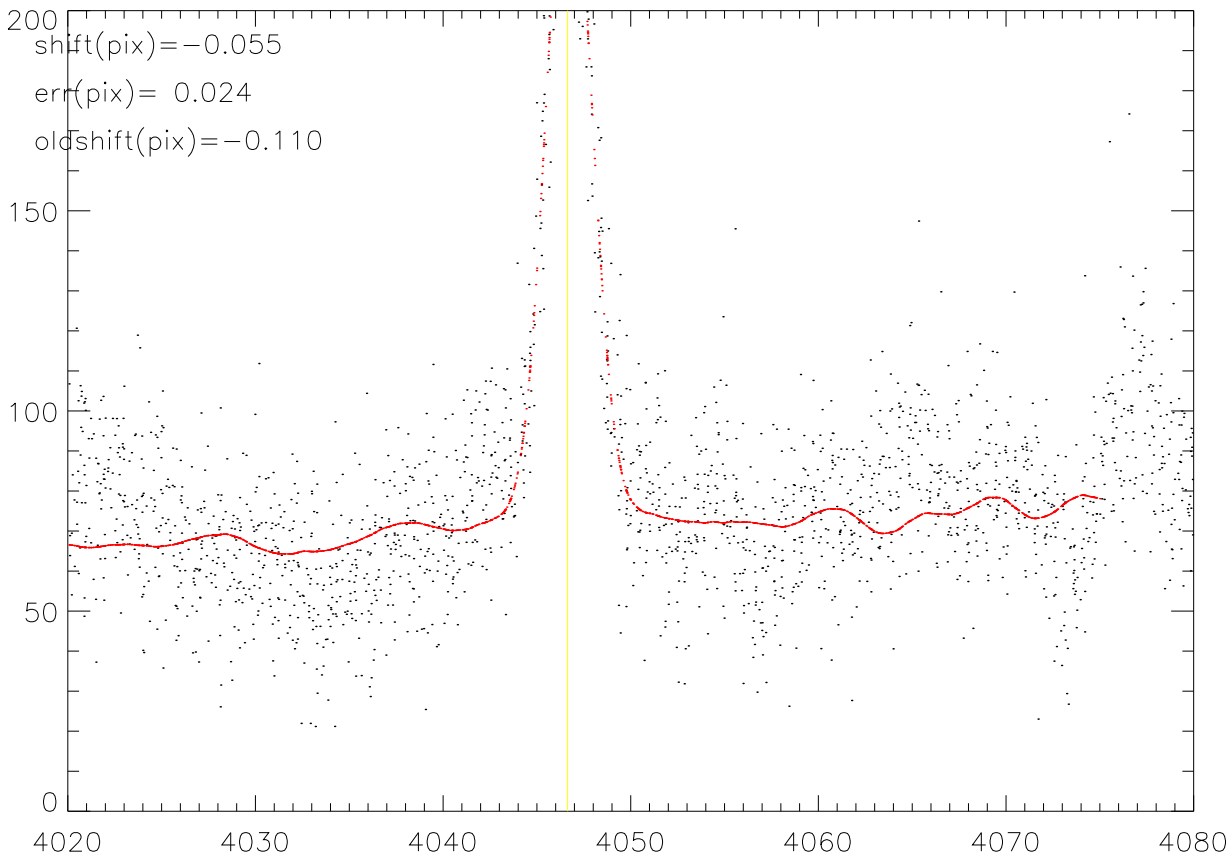

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR−b2−00051328.f
Brightness [electrons/pix]
25
20
15
10
5
0
Error bars denote full range
Min value = 11.007
Max value = 16.860
4000
4500
5000
5500
6000
λ [A]
Fri Mar 28 17:30:39 2008

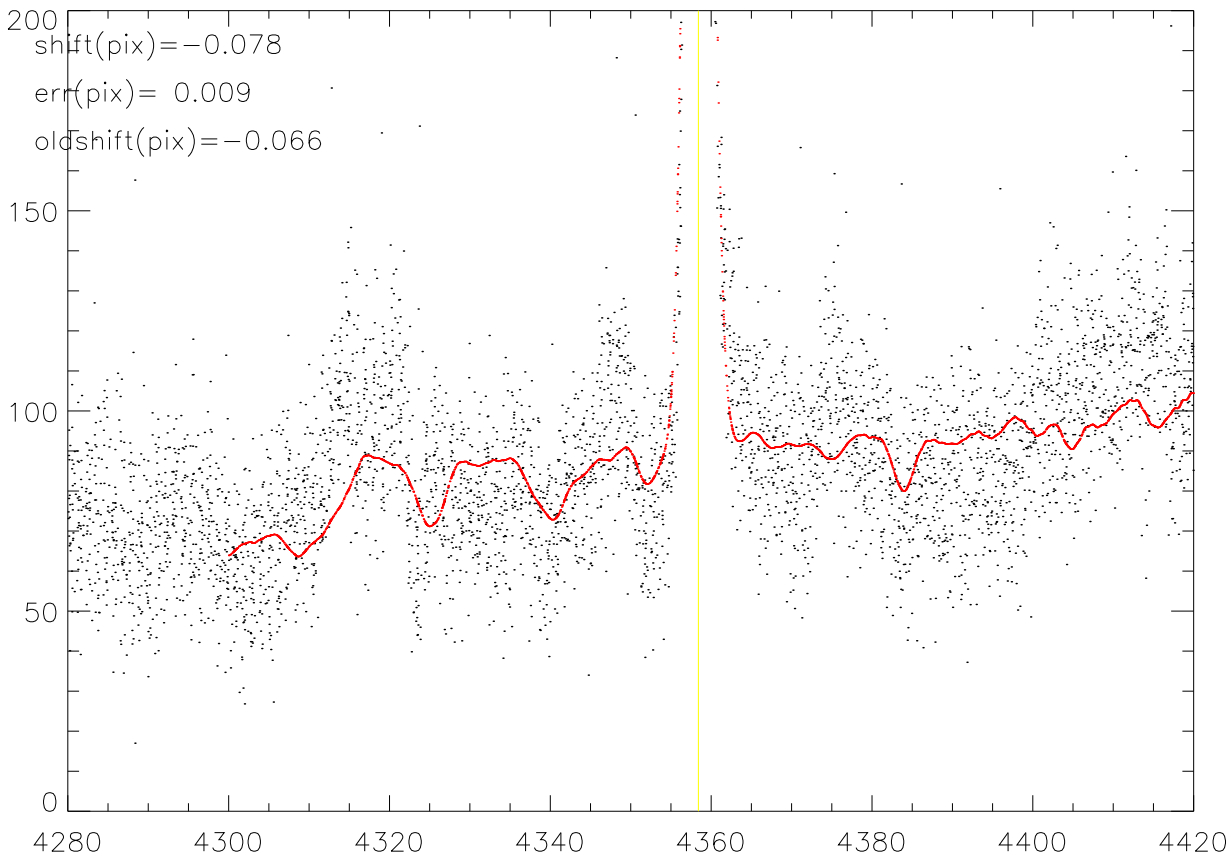

PLATE=2874 MJD=54553 Scattered Light on sdR-b2-00051328.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
11.6
9.5
7.3
5.1

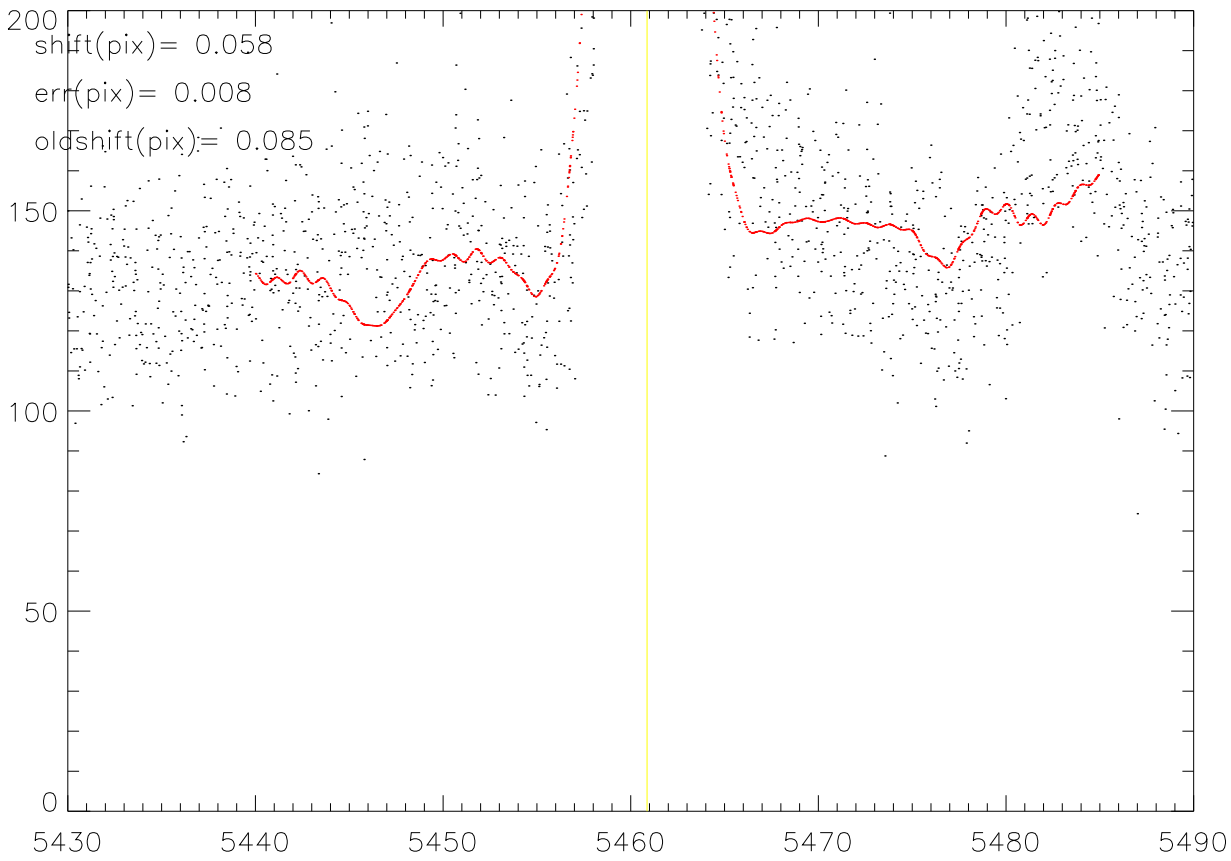

PLATE=2874 MJD=54553 Scattered Light on sdR-b2-00051328.fit
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.389
Max value = 11.772
Fri Mar 28 17:34:04 2008

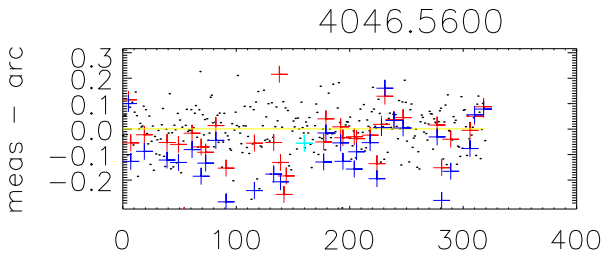

PLATE=2874 MJD=54553 Extraction chi^2 for sdR-b2-00051328.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

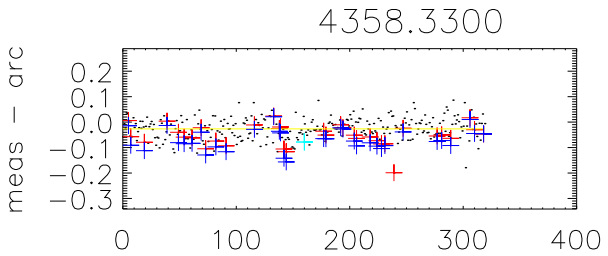

4046.5600
off: −0.11
sig: 0.019
4358.3300
off: −0.07
sig: 0.008
5460.9400
off: 0.08
sig: 0.007
5577.3390
off: 0.10
sig: 0.001
5889.9500
off: 0.20
sig: 0.006
5895.9240
off: 0.14
sig: 0.007

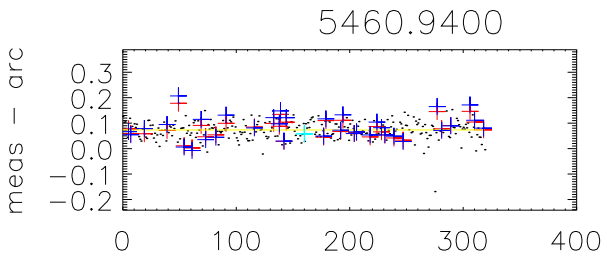

shift(pix)=−0.055
err(pix)= 0.024
oldshift(pix)=−0.110
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

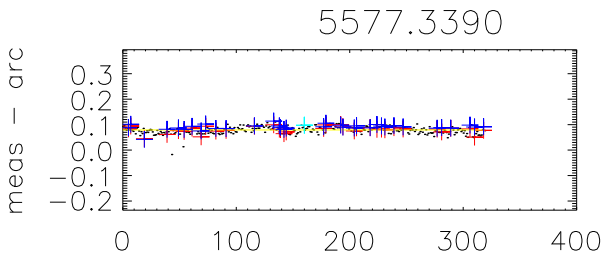

shift(pix)=−0.078
err(pix)= 0.009
oldshift(pix)=−0.066
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

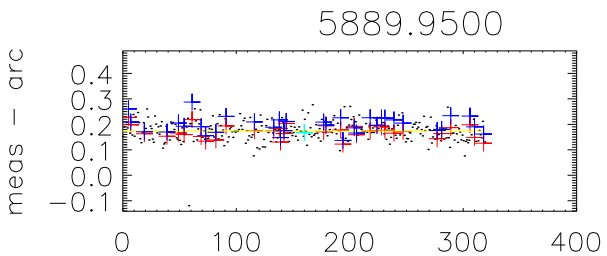

shift(pix)= 0.058
err(pix)= 0.008
oldshift(pix)= 0.085
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

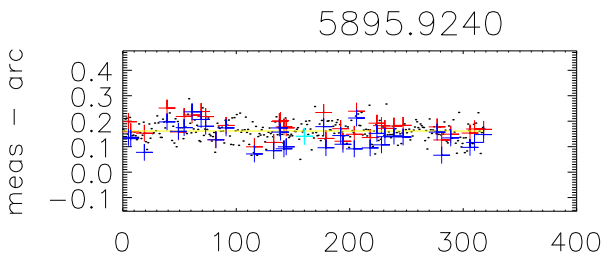

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

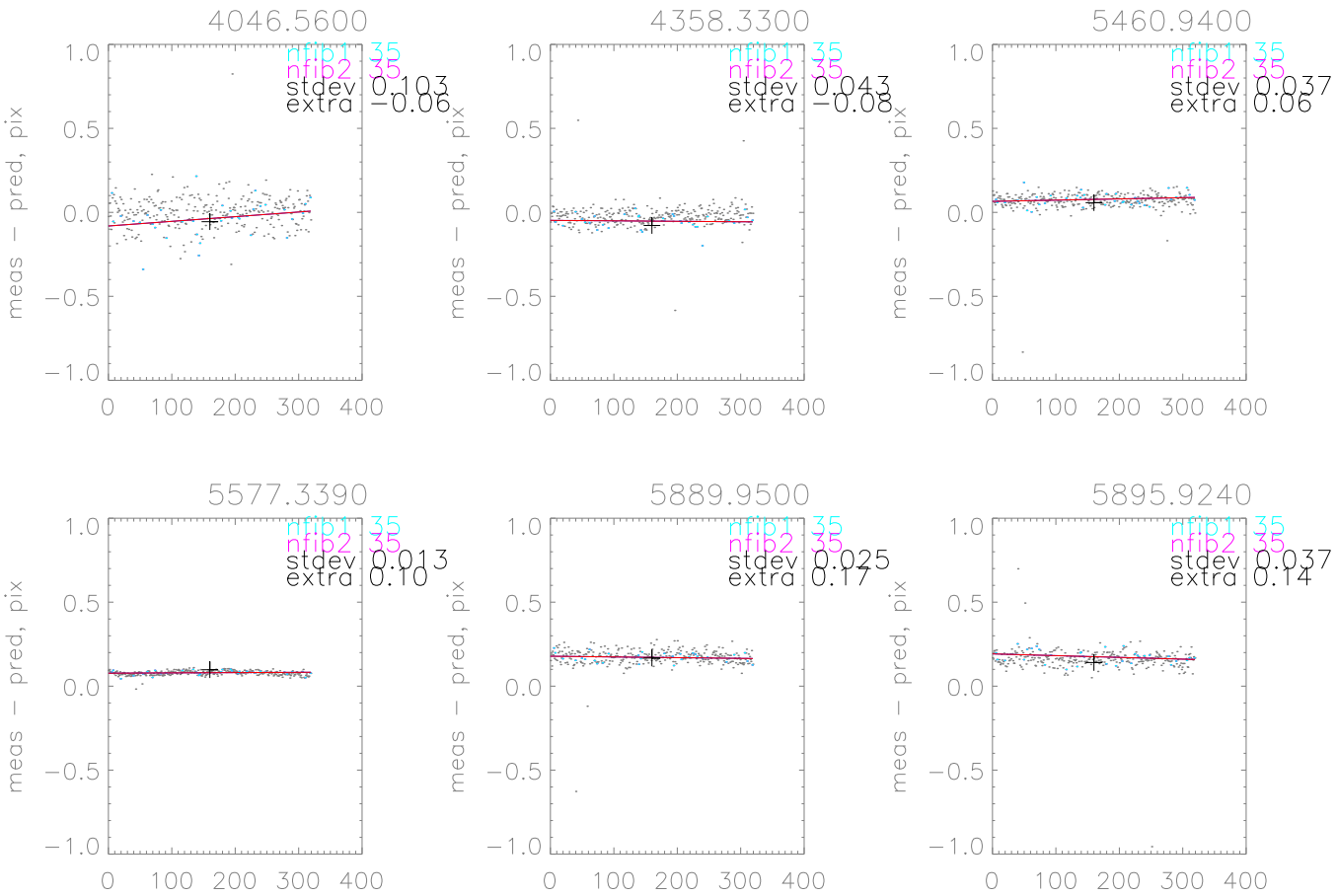

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

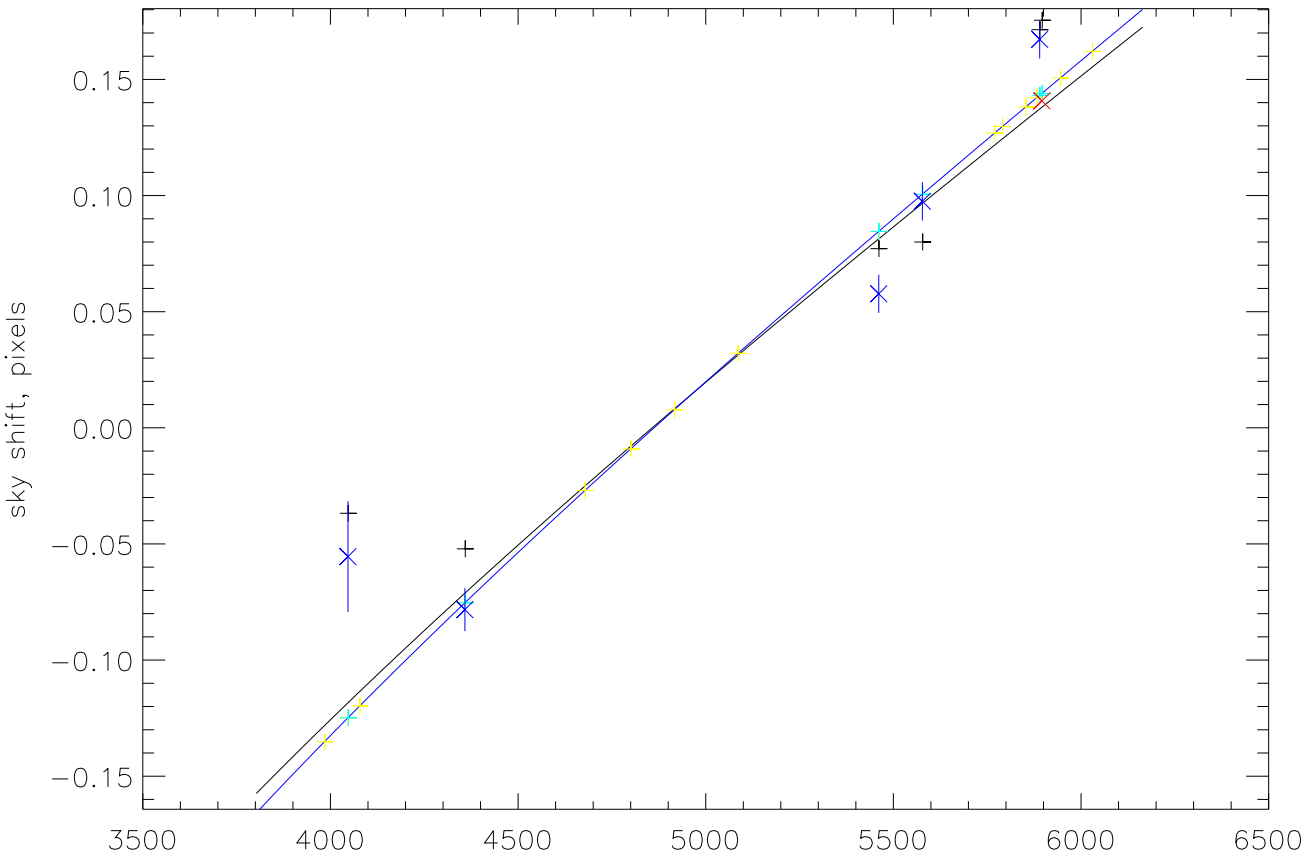

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

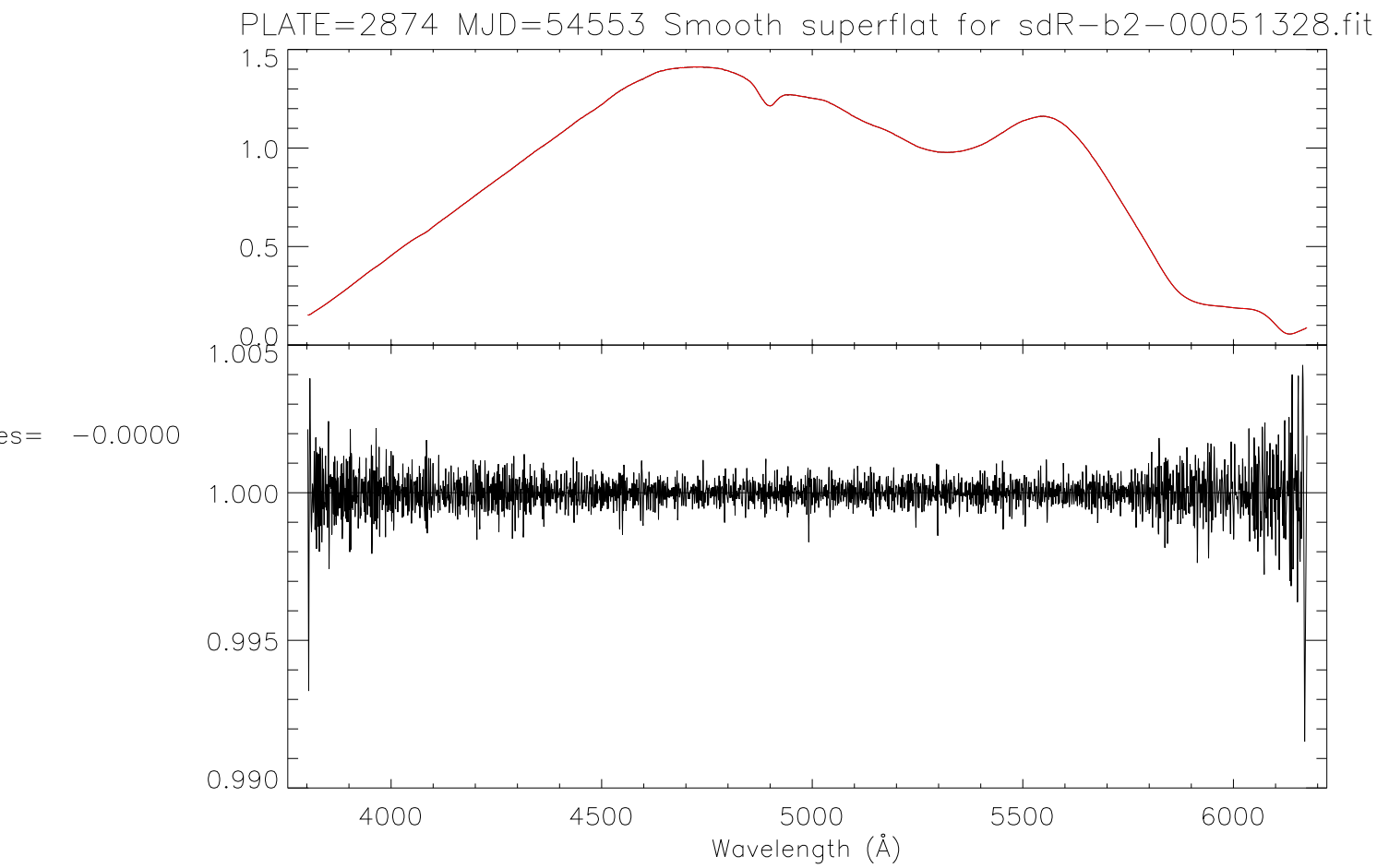

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

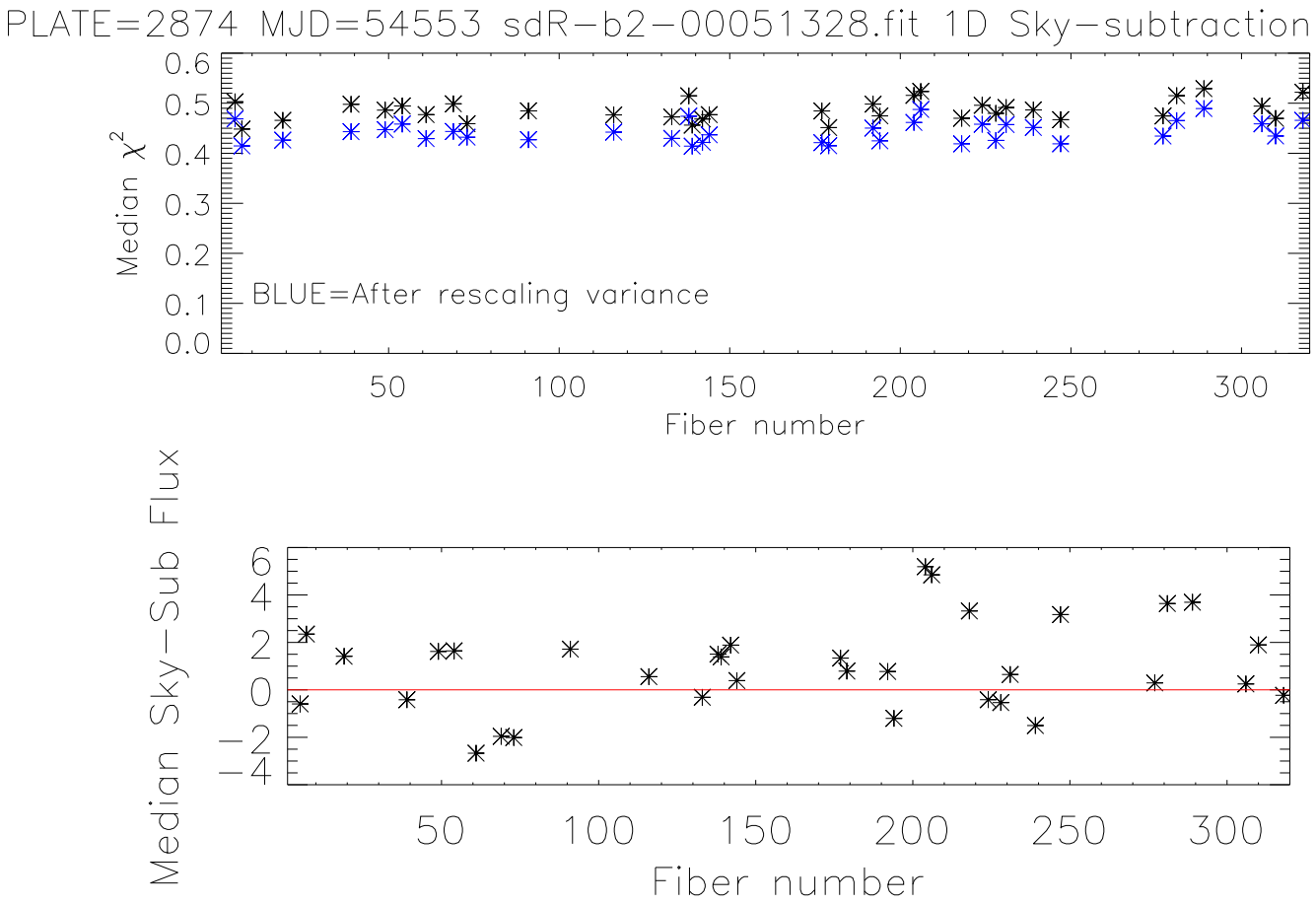

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

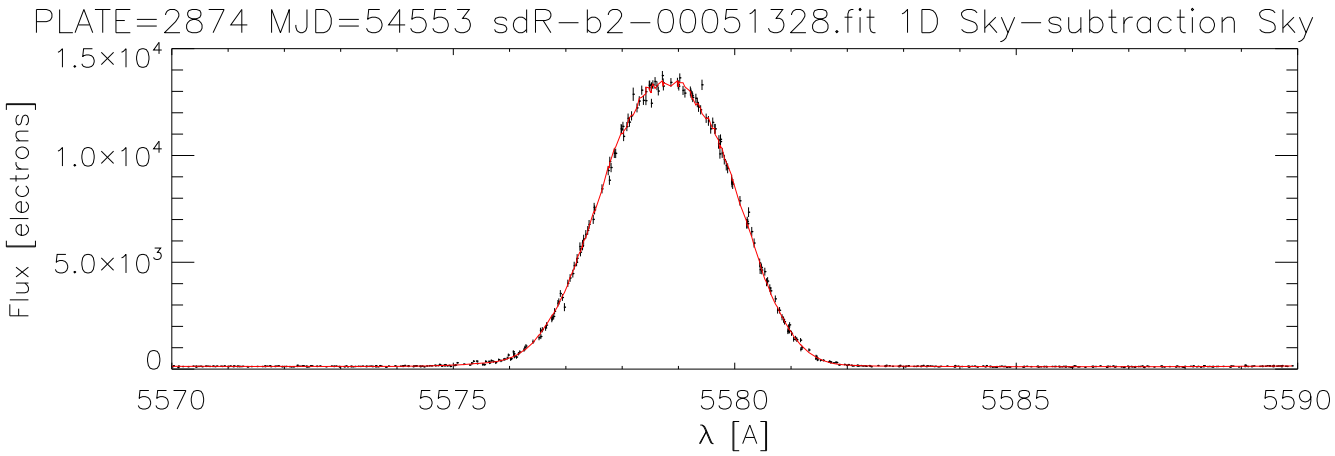

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

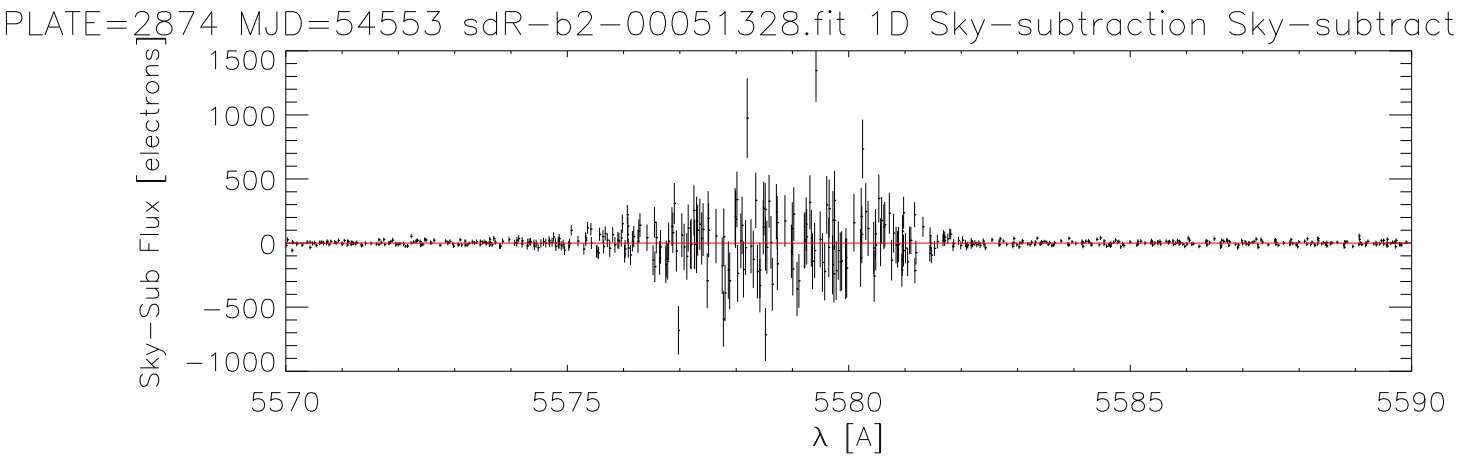

4046.5600
nfib1 35
nfib2 35
stdev 0.103
extra −0.06
4358.3300
nfib1 35
nfib2 35
stdev 0.043
extra −0.08
5460.9400
nfib1 35
nfib2 35
stdev 0.037
extra 0.06
5577.3390
nfib1 35
nfib2 35
stdev 0.013
extra 0.10
5889.9500
nfib1 35
nfib2 35
stdev 0.025
extra 0.17
5895.9240
nfib1 35
nfib2 35
stdev 0.037
extra 0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

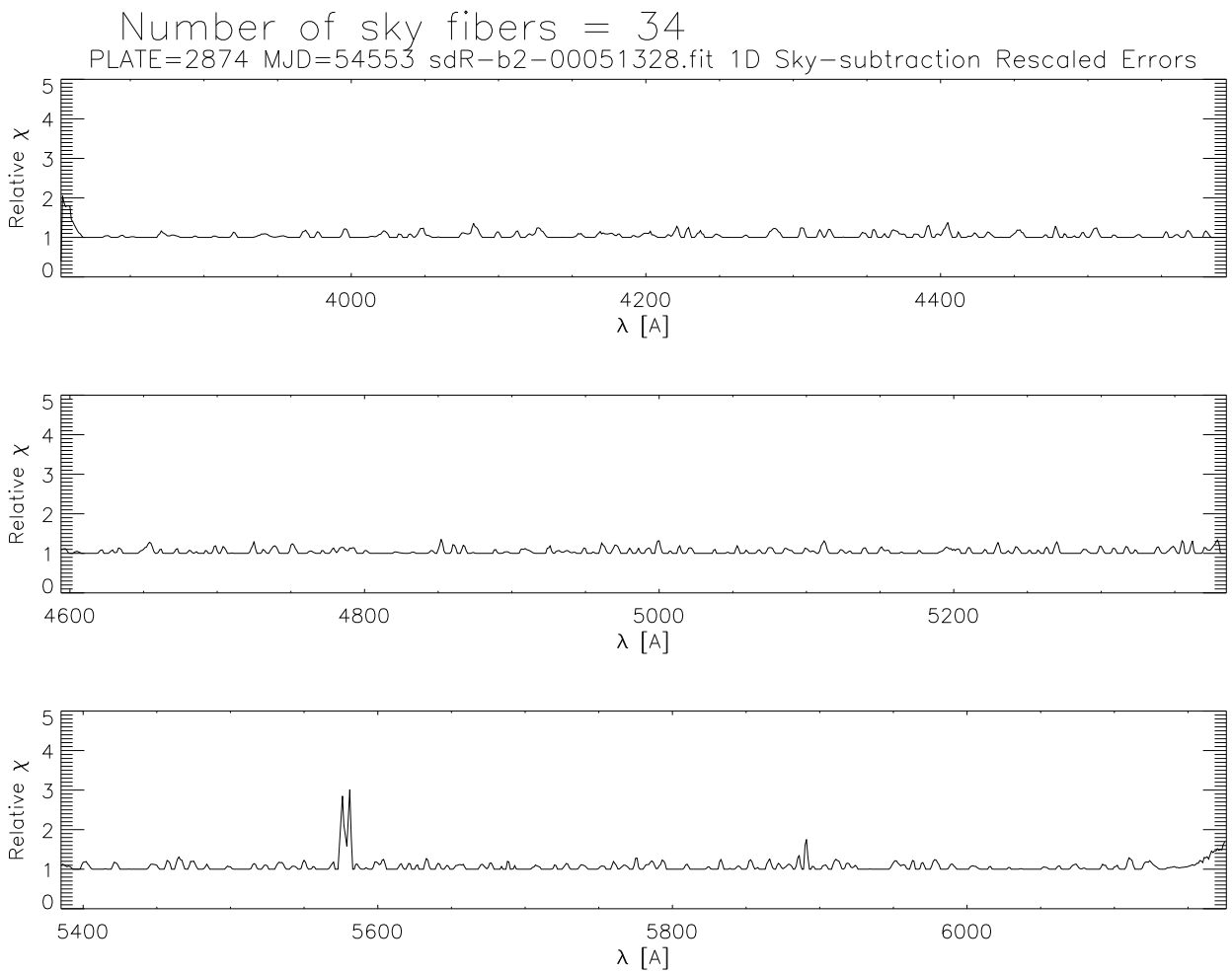

sky shift, pixels
0.15
0.10
0.05
0.00
−0.05
−0.10
−0.15
3500
4000
4500
5000
5500
6000
6500

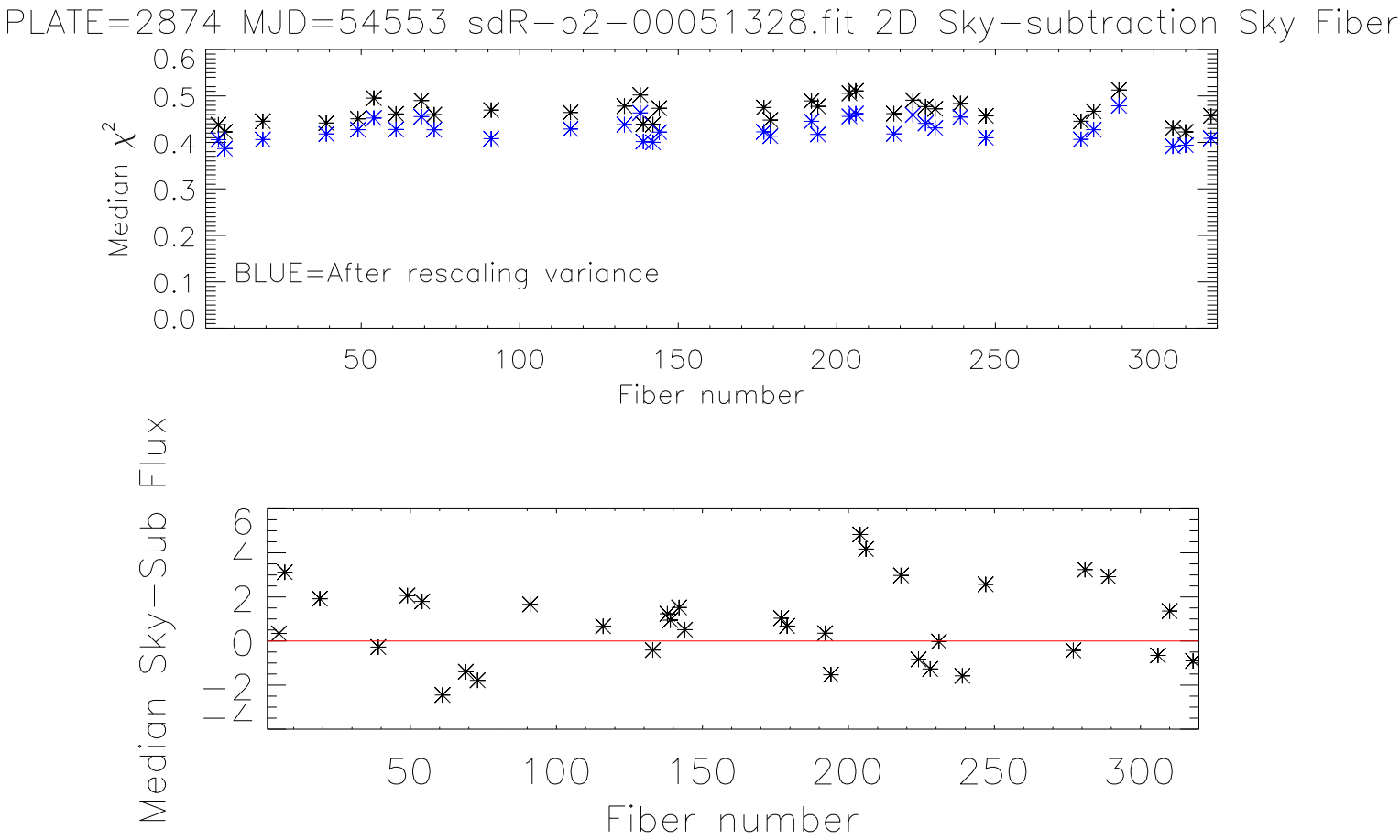

PLATE=2874 MJD=54553 Smooth superflat for sdR-b2-00051328.fit
1.5
1.0
0.5
0.0
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

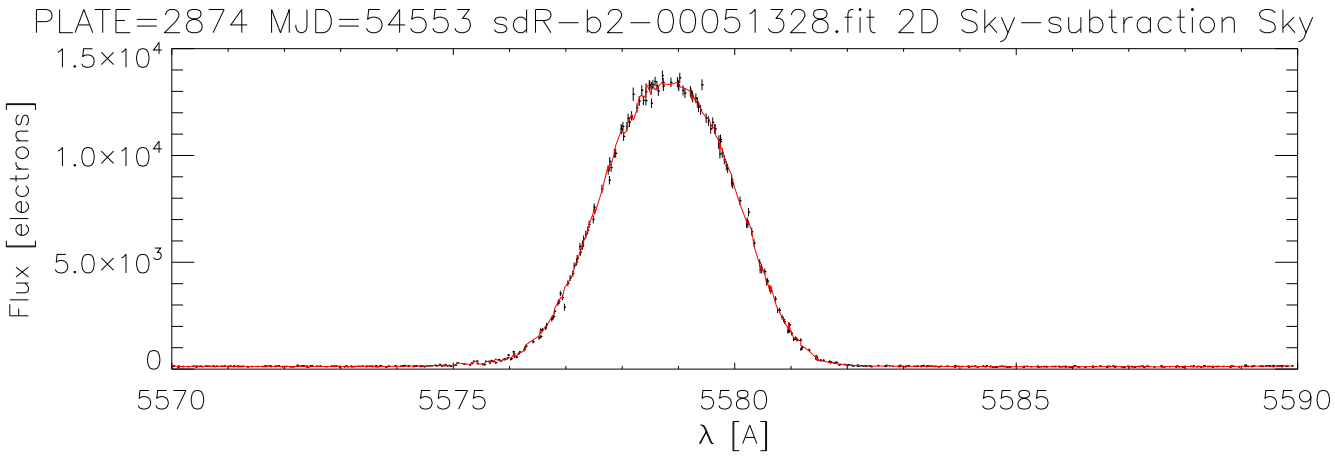

PLATE=2874 MJD=54553 sdR-b2-00051328.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

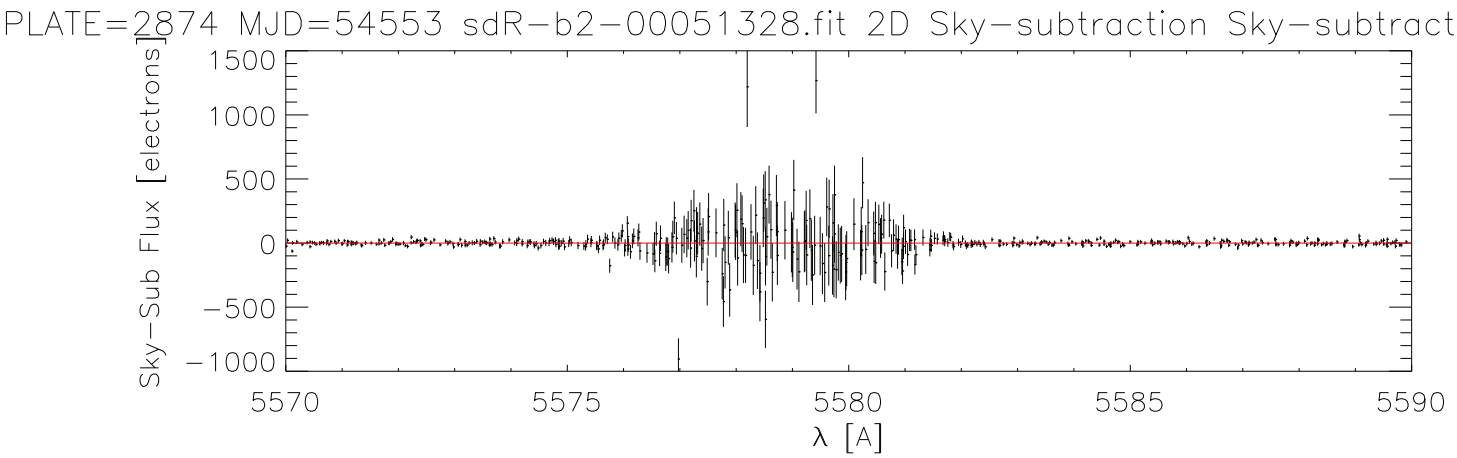

PLATE=2874 MJD=54553 sdR-b2-00051328.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

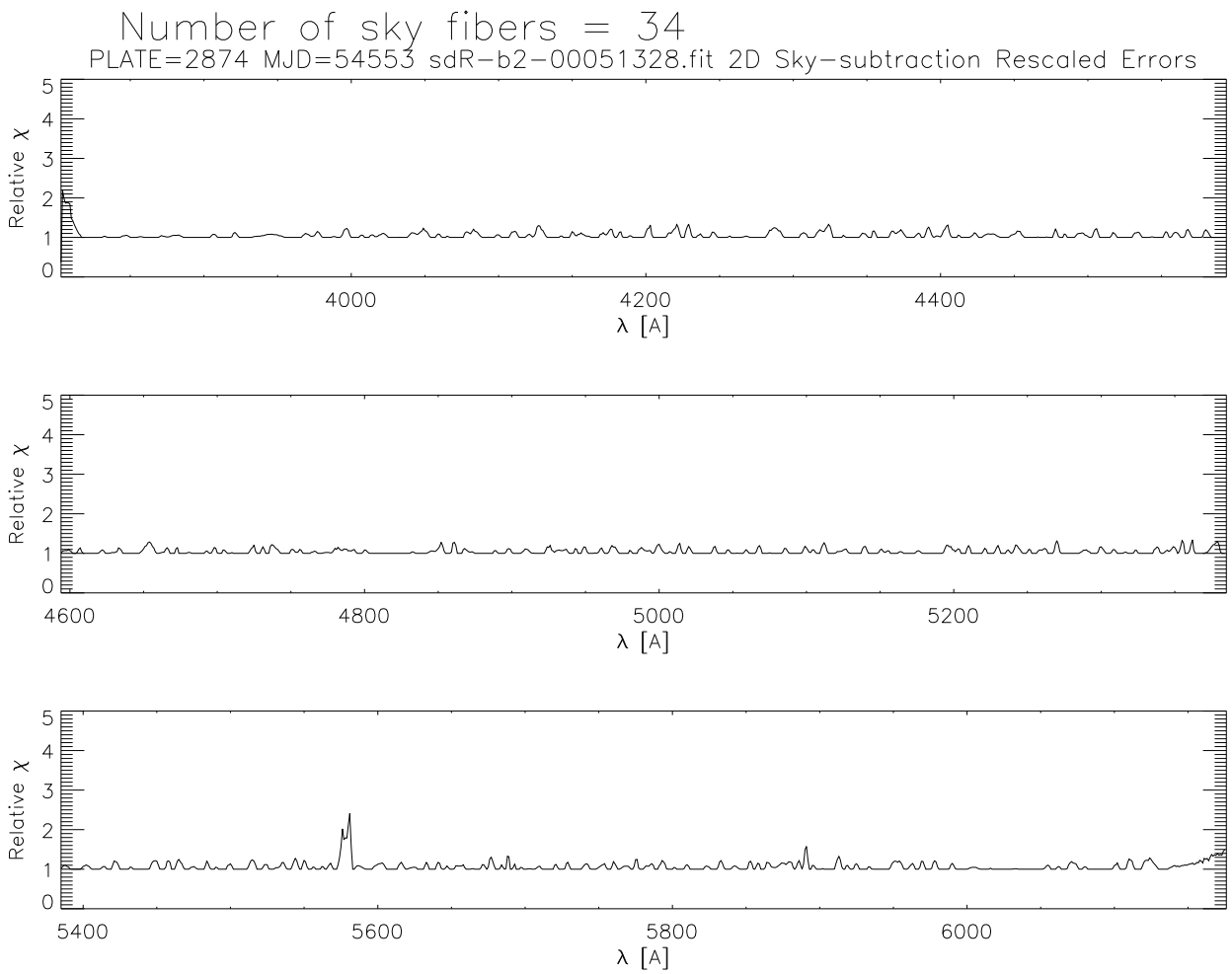

PLATE=2874 MJD=54553 sdR-b2-00051328.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

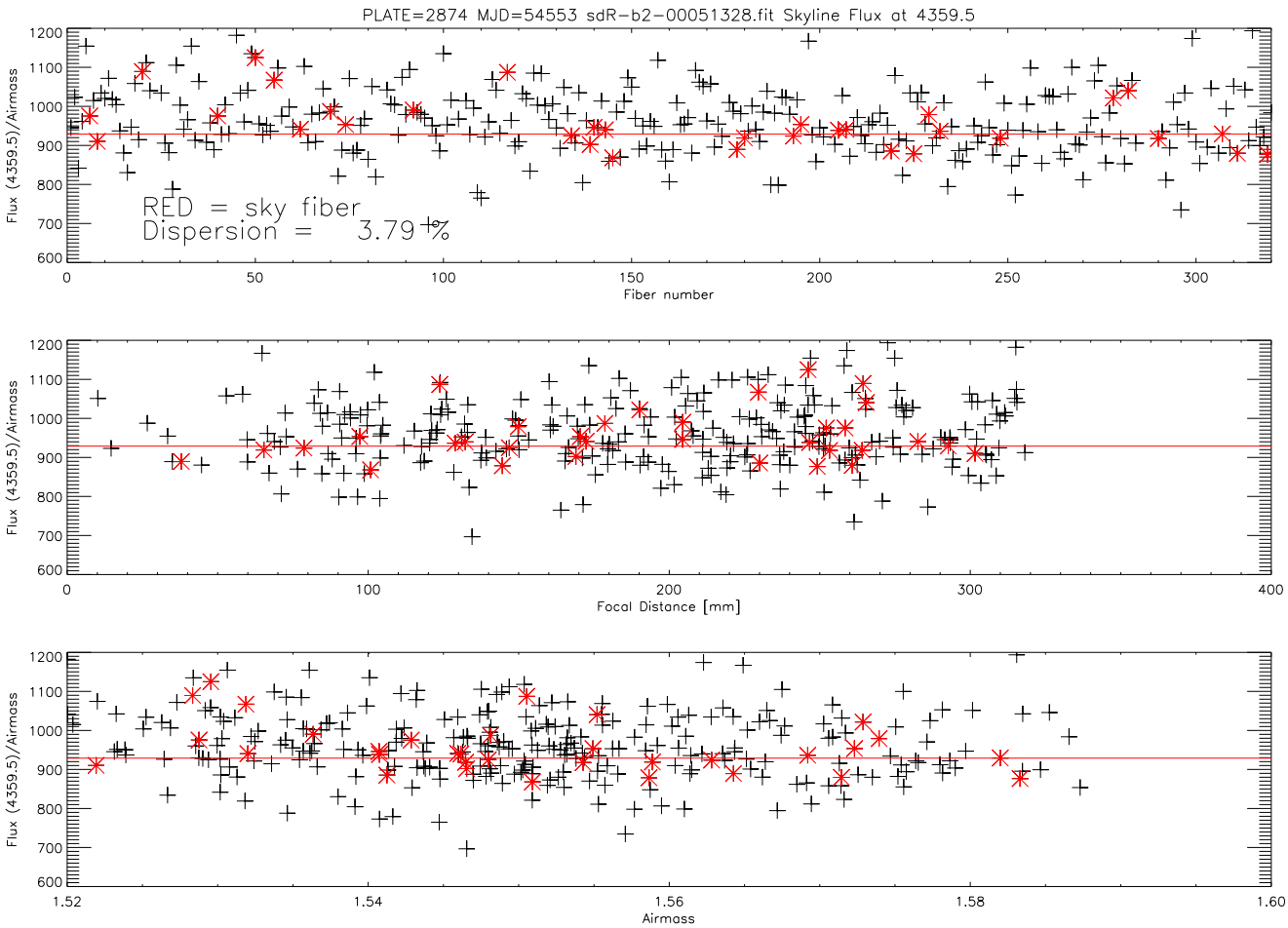

Number of sky fibers = 34
PLATE=2874 MJD=54553 sdR-b2-00051328.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

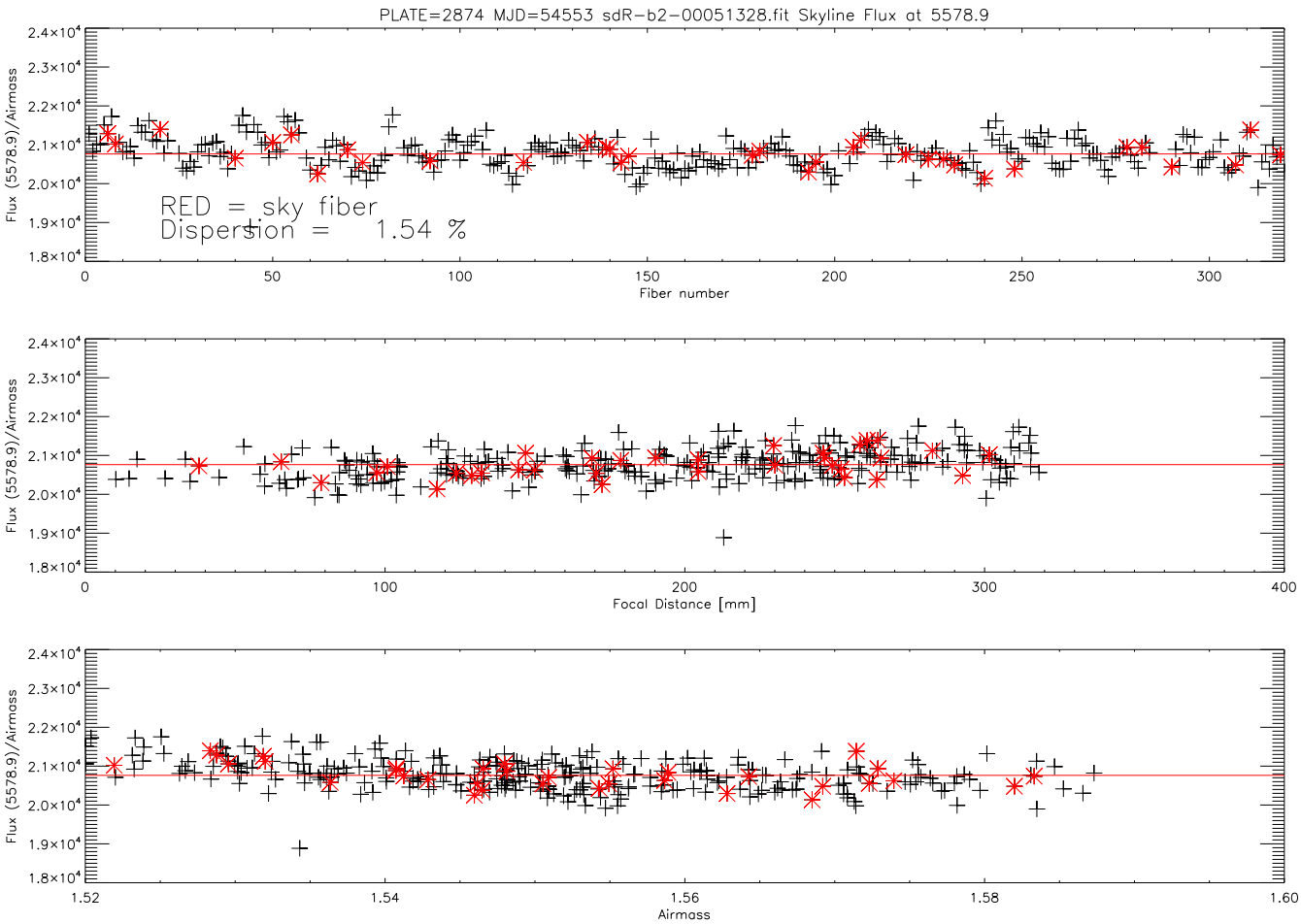

PLATE=2874 MJD=54553 sdR-b2-00051328.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

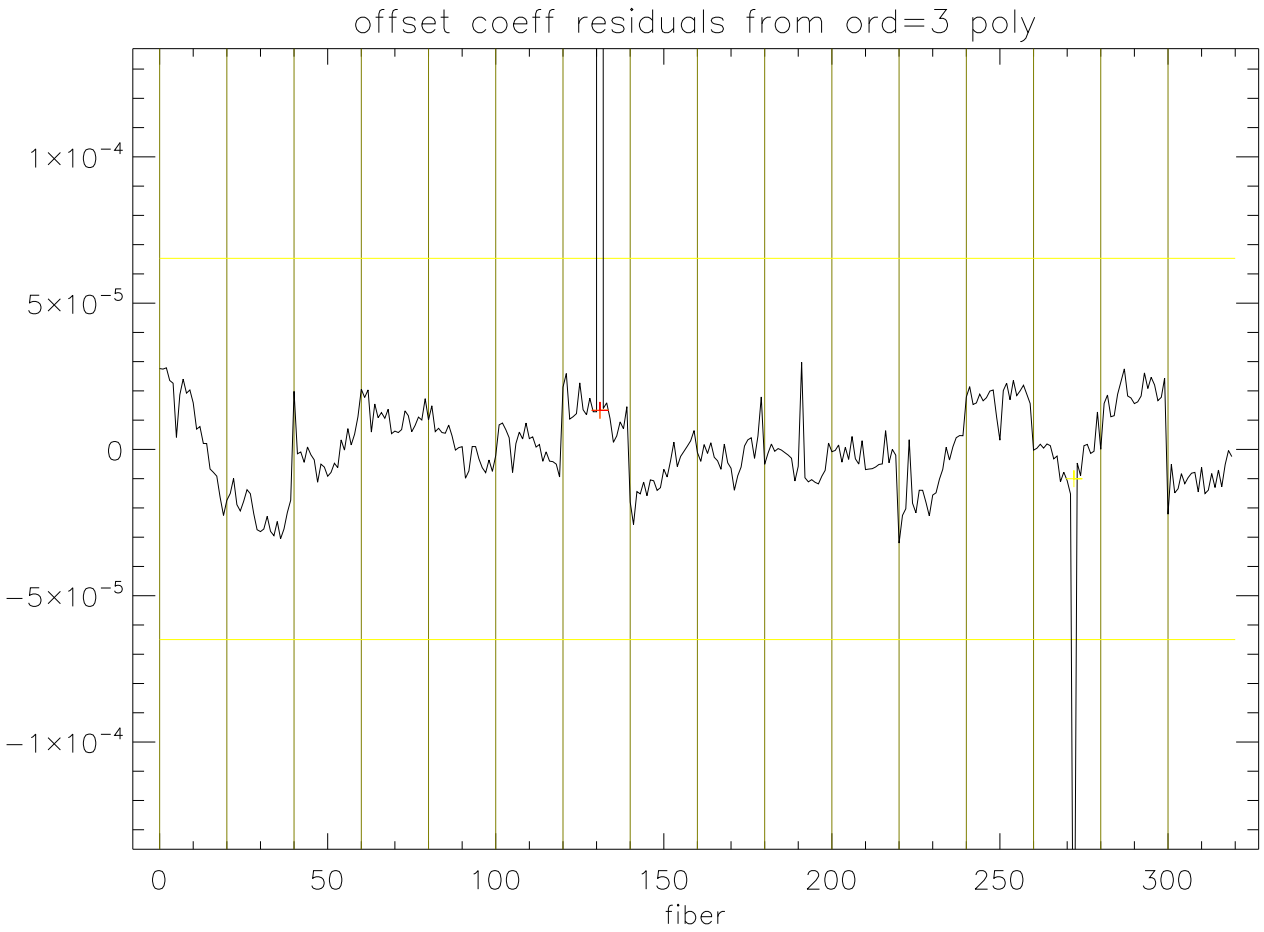

PLATE=2874 MJD=54553 sdR-b2-00051328.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1.5×10^4
1.0×10^4
5.0×10^3
0
5570
5575
5580
5585
5590
λ [A]

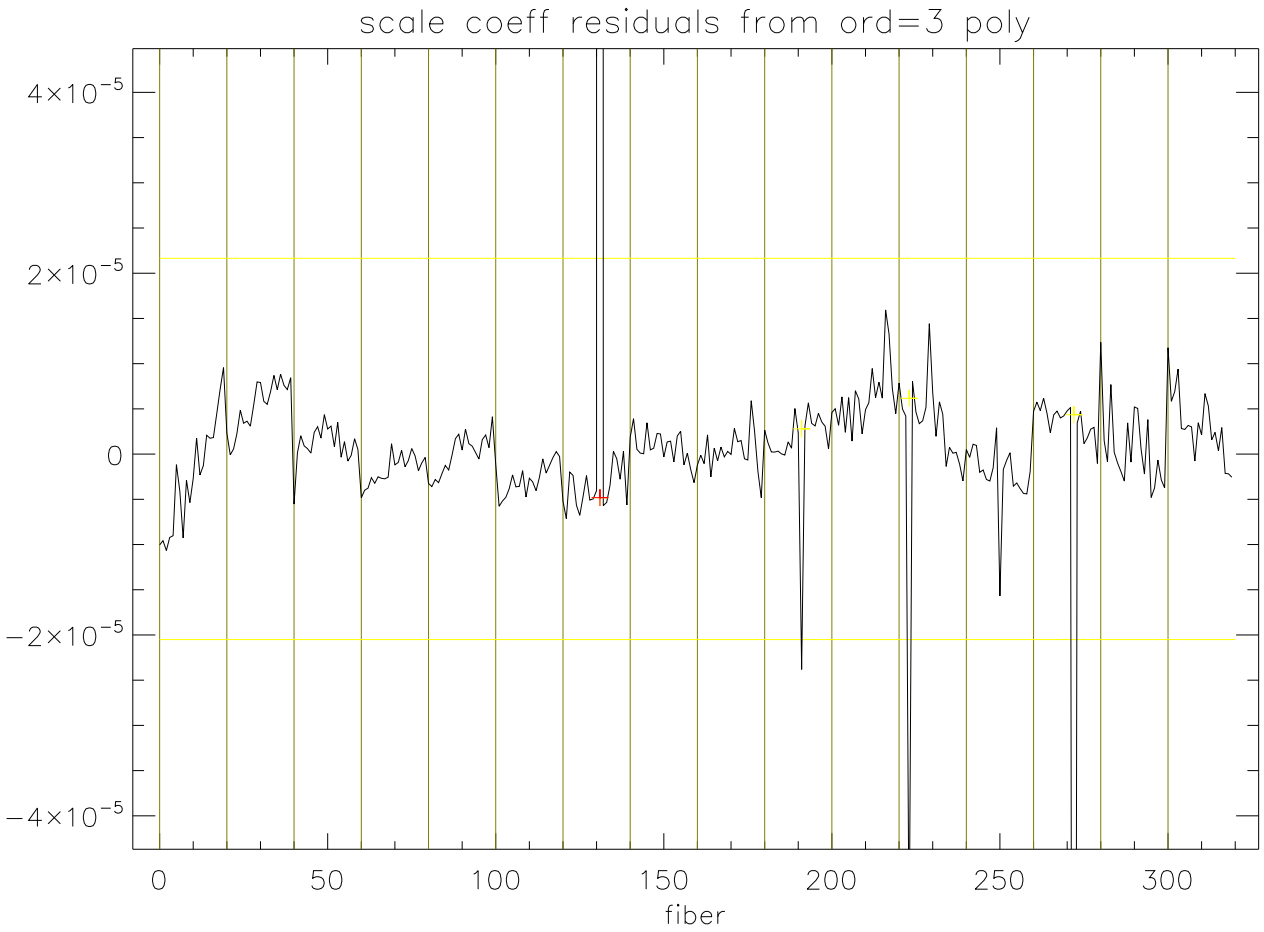

PLATE=2874 MJD=54553 sdR-b2-00051328.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

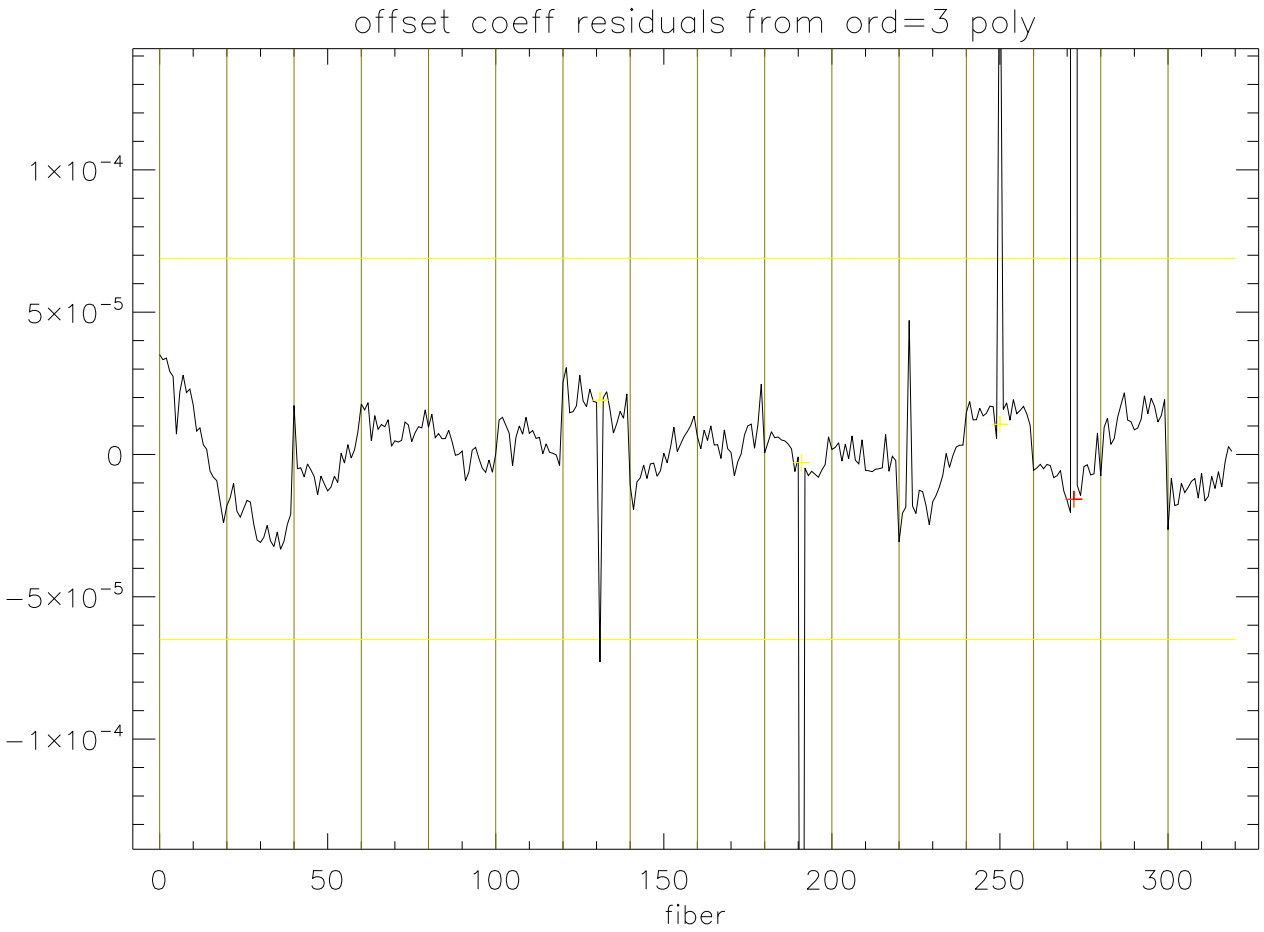

Number of sky fibers = 34
PLATE=2874 MJD=54553 sdR-b2-00051328.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

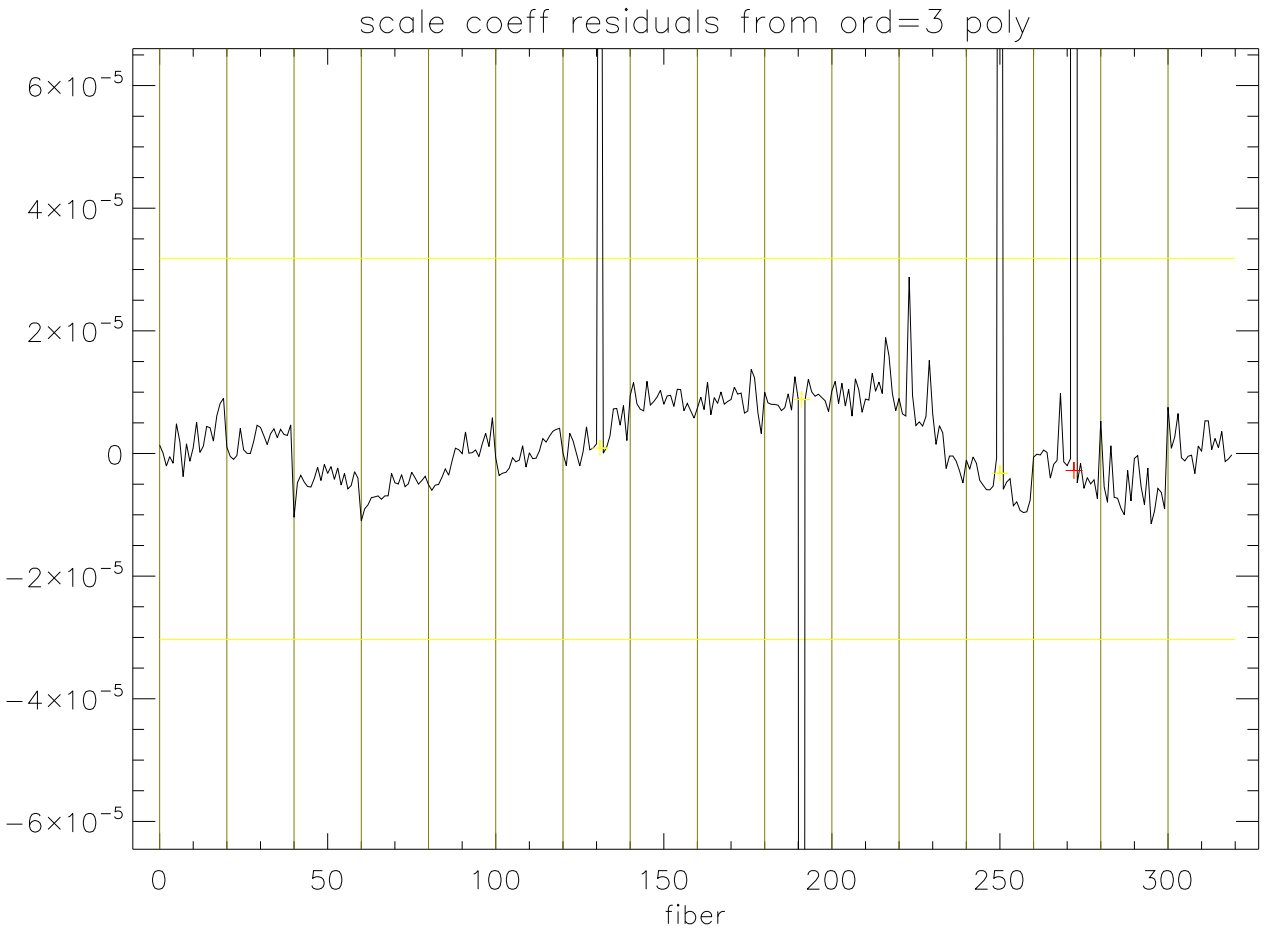

PLATE=2874 MJD=54553 sdR-b2-00051328.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 3.79 %
Fiber number
Focal Distance [mm]
Airmass

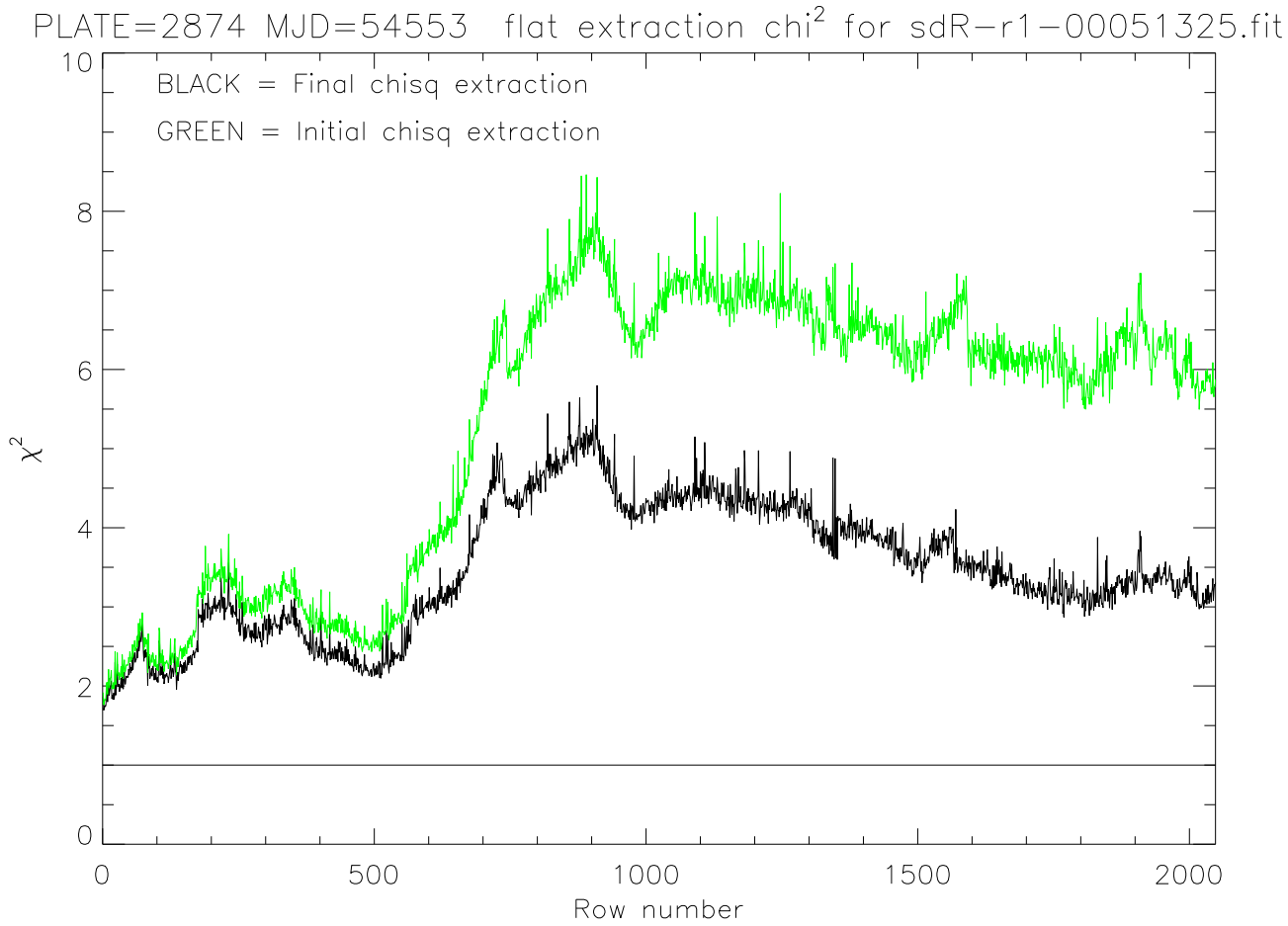

PLATE=2874 MJD=54553 sdR-b2-00051328.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.54 %
Fiber number
Focal Distance [mm]
Airmass

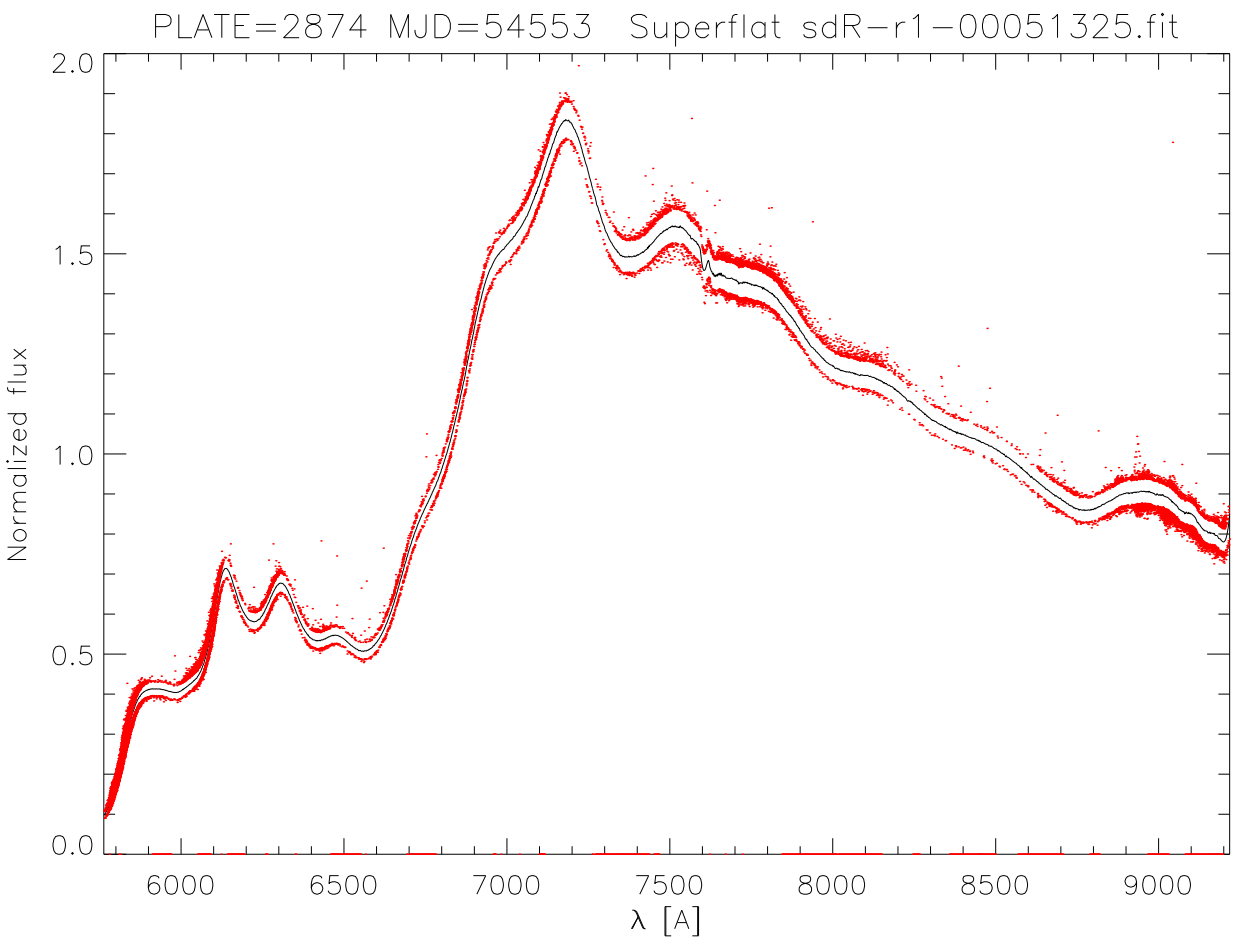

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

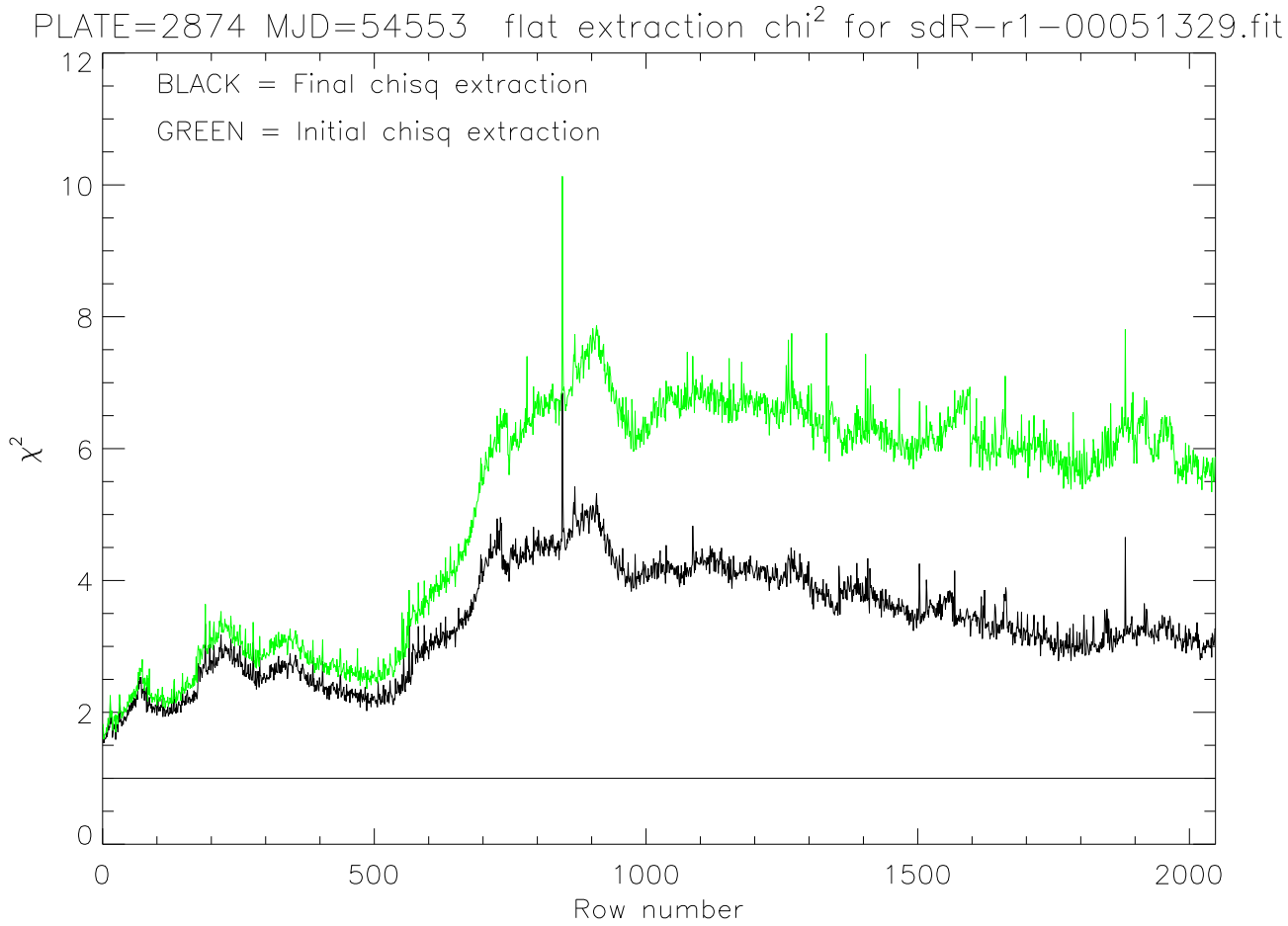

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

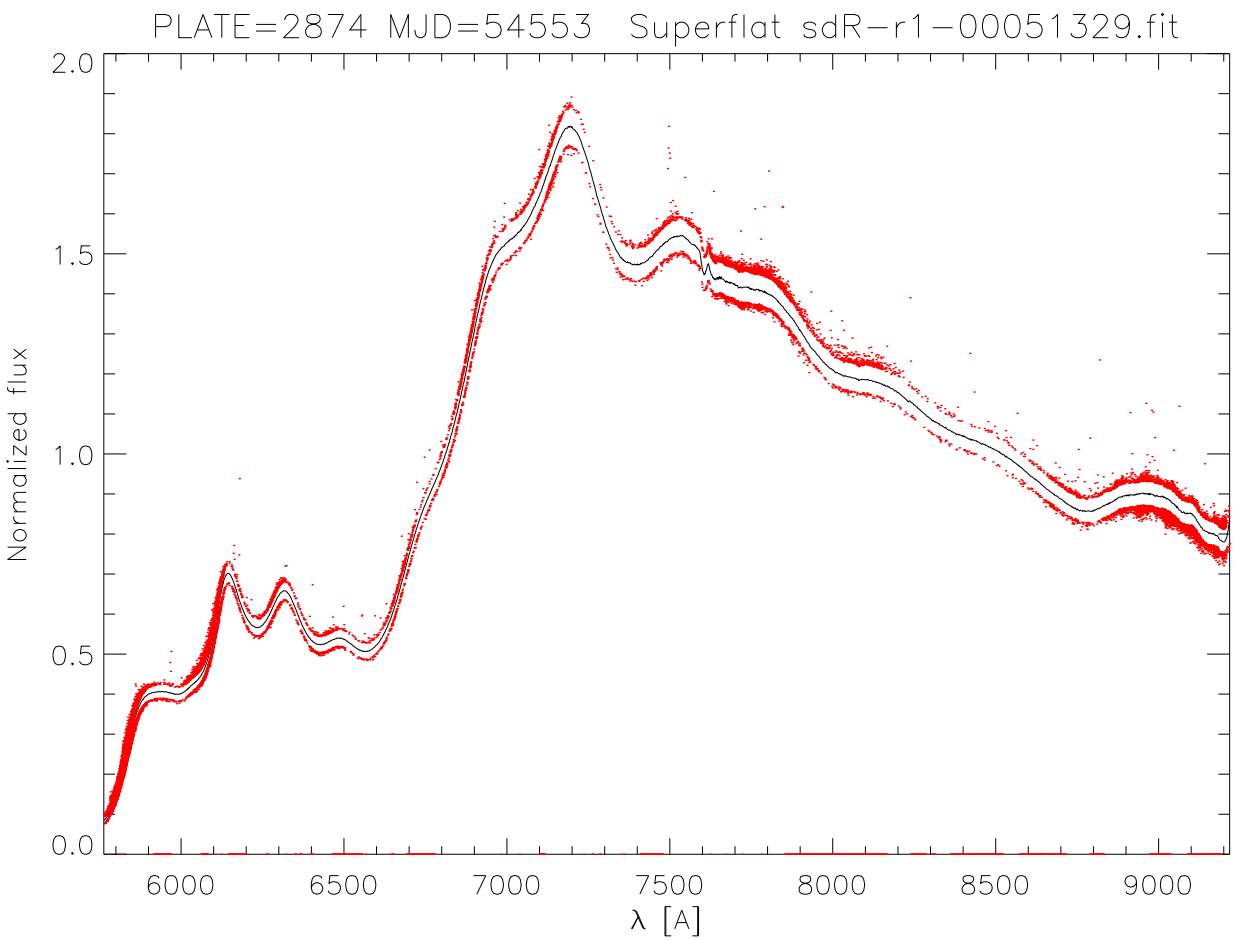

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

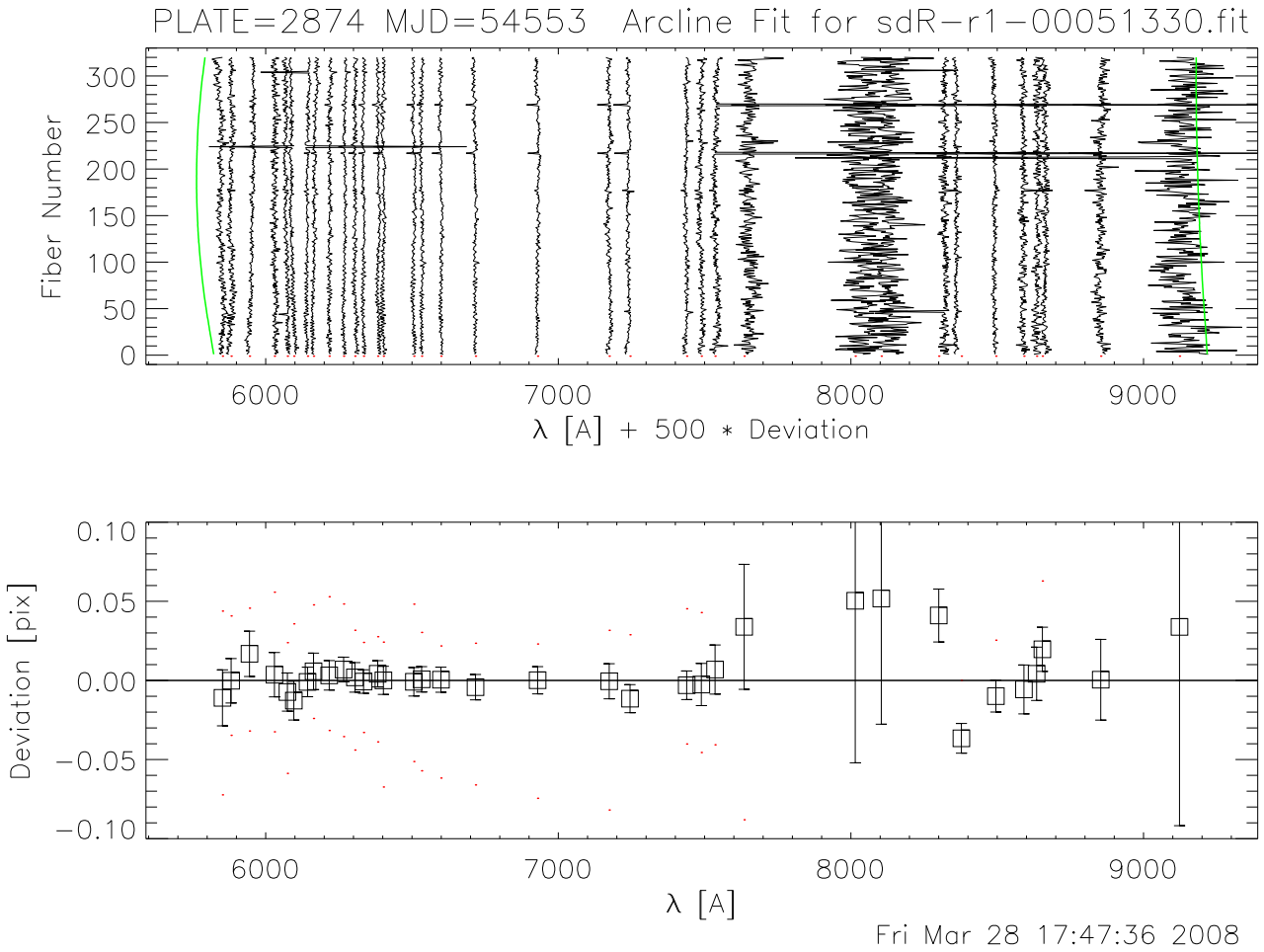

scale coeff residuals from ord=3 poly
6×10⁻⁵
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
−6×10⁻⁵
0
50
100
150
200
250
300
fiber

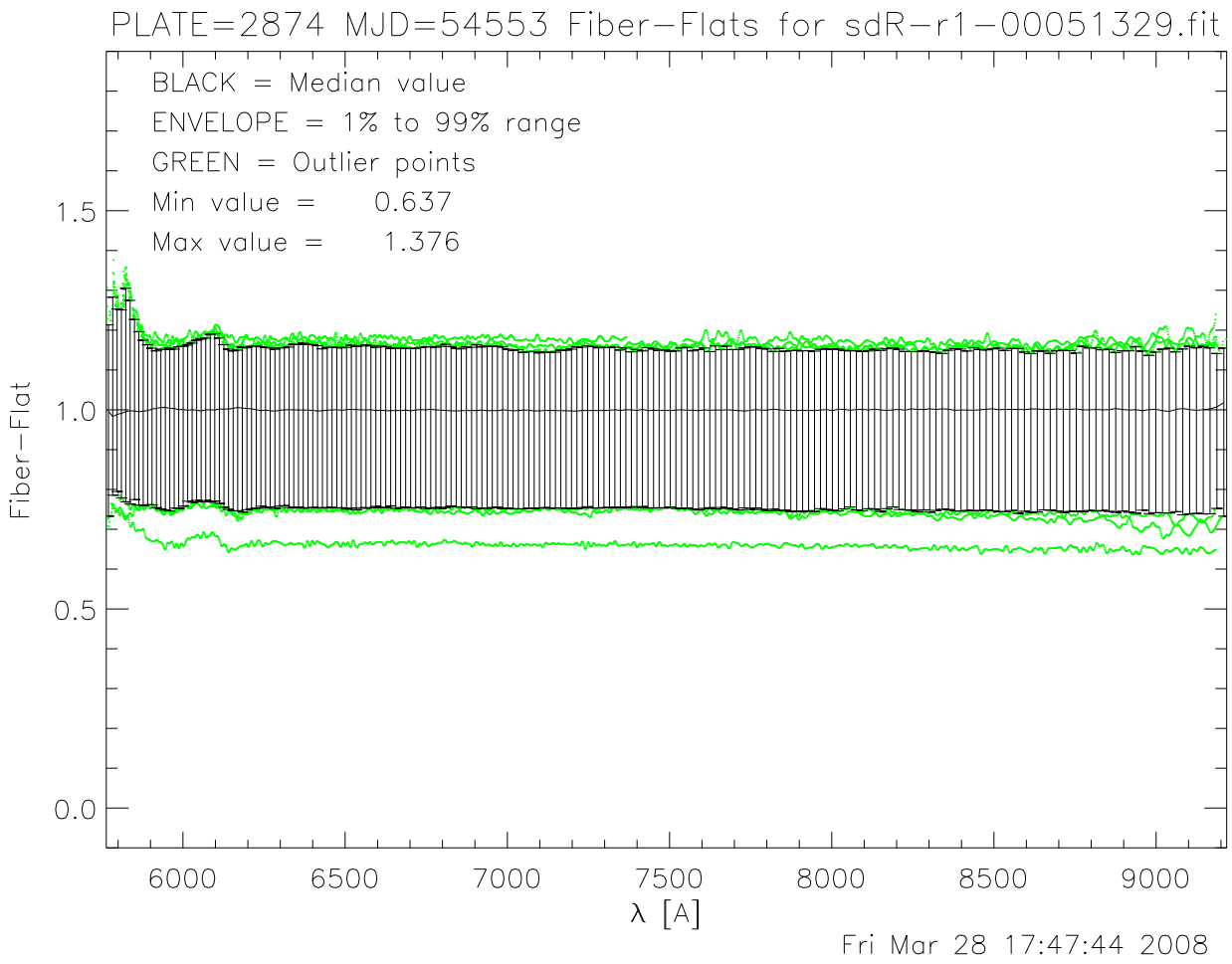

PLATE=2874 MJD=54553 flat extraction chi^2 for sdR−r1−00051325.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
0
500
1000
1500
2000

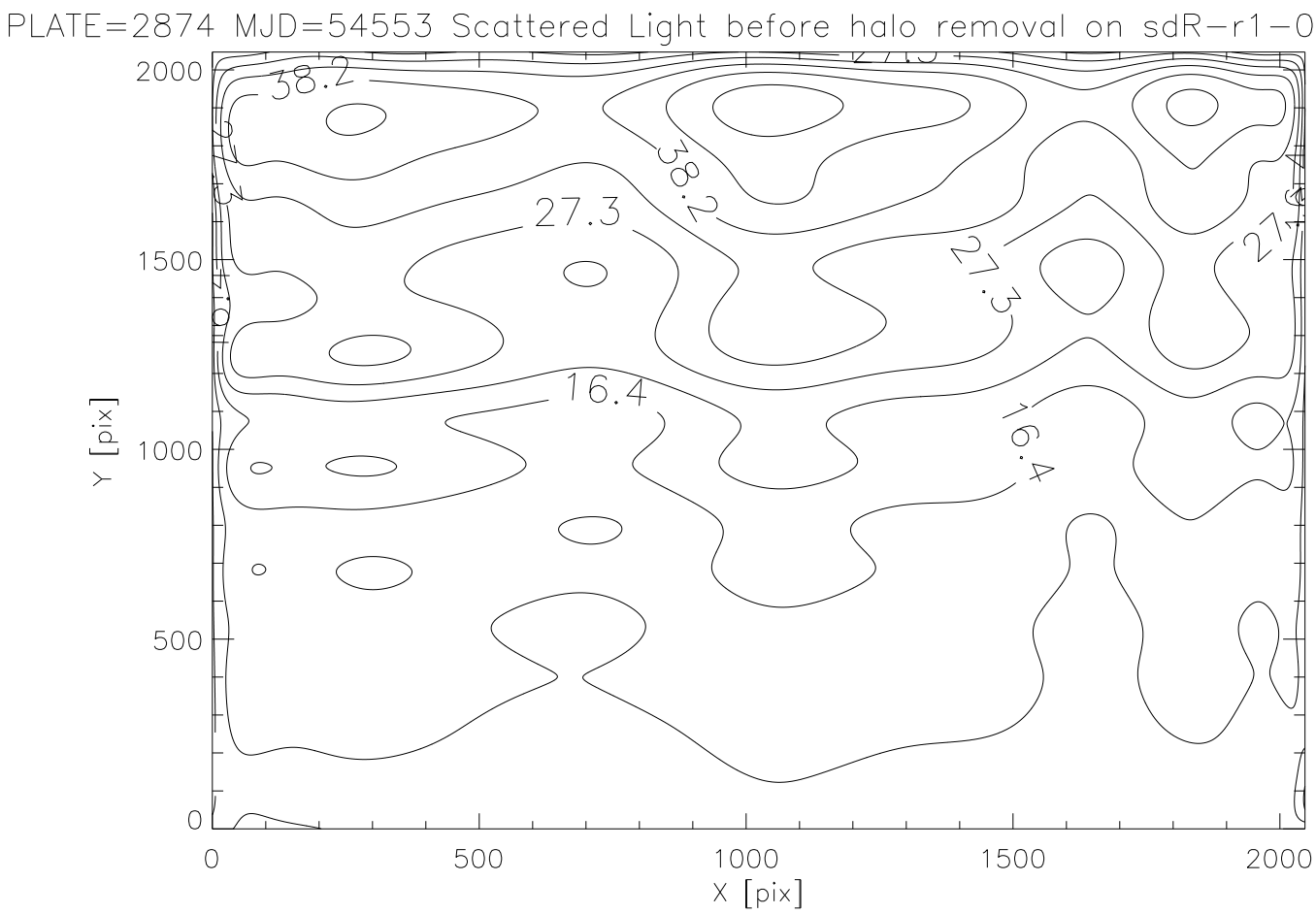

PLATE=2874 MJD=54553 Superflat sdR-r1-00051325.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

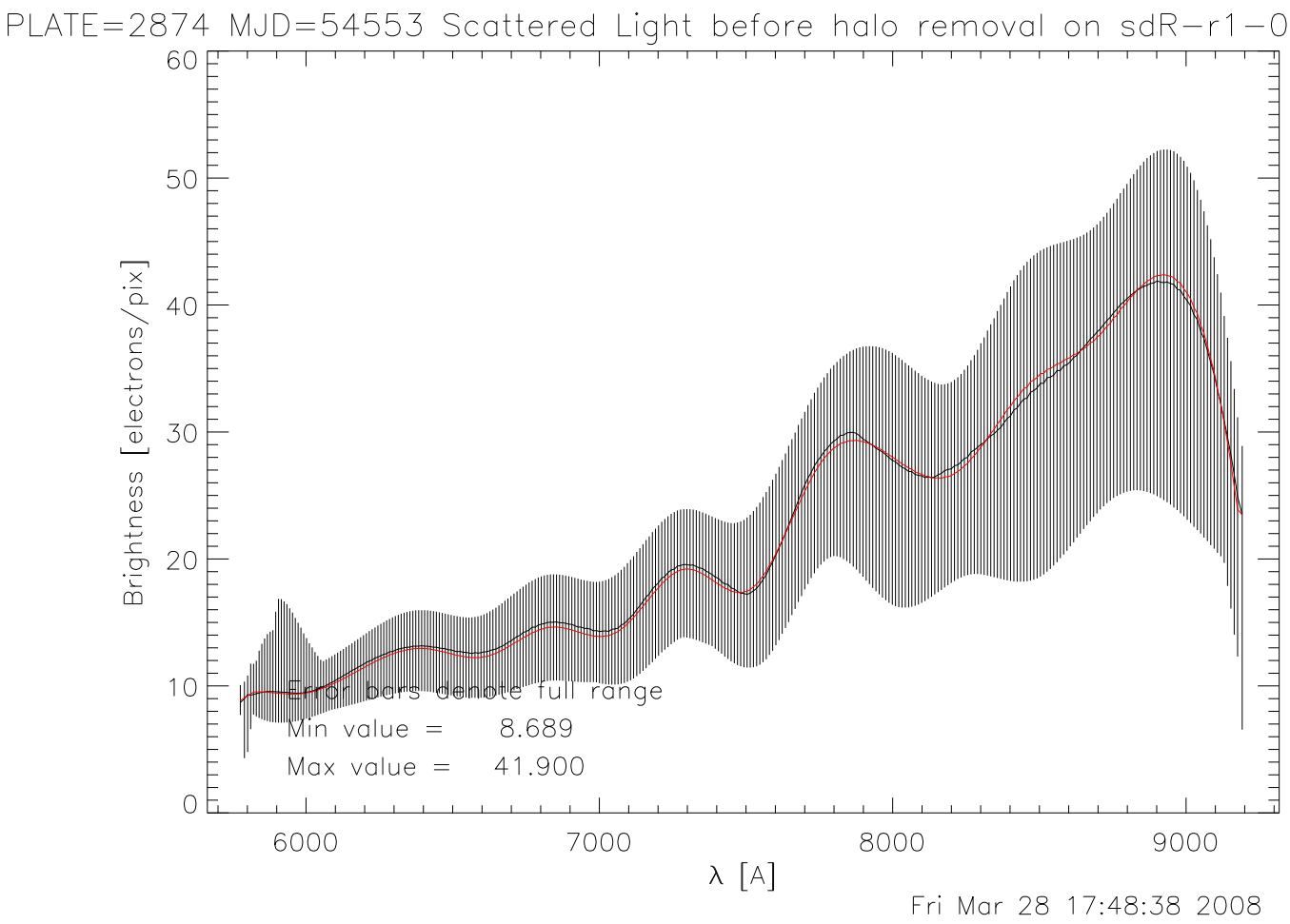

PLATE=2874 MJD=54553 flat extraction chi^2 for sdR−r1−00051329.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

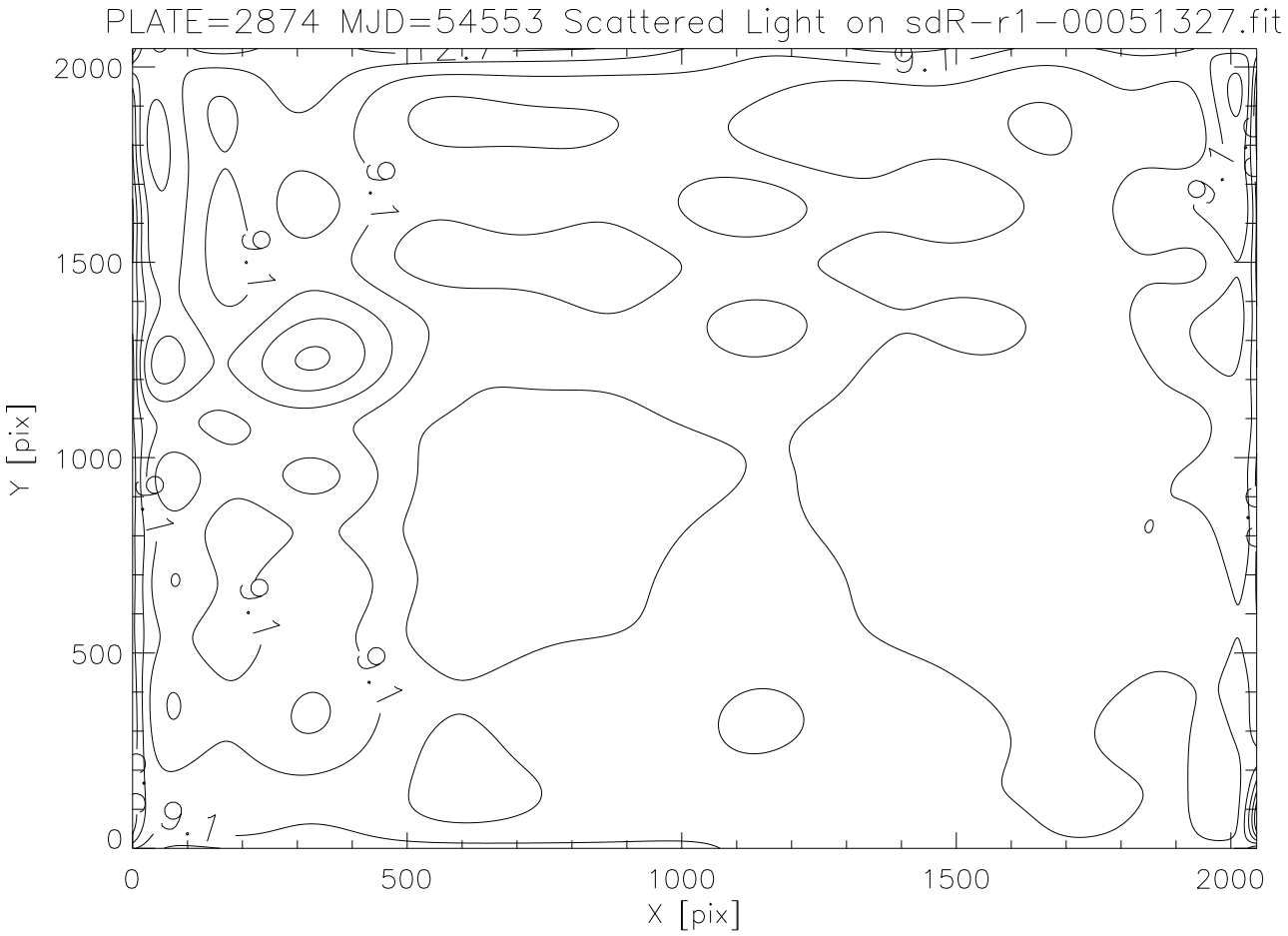

PLATE=2874 MJD=54553 Superflat sdR-r1-00051329.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

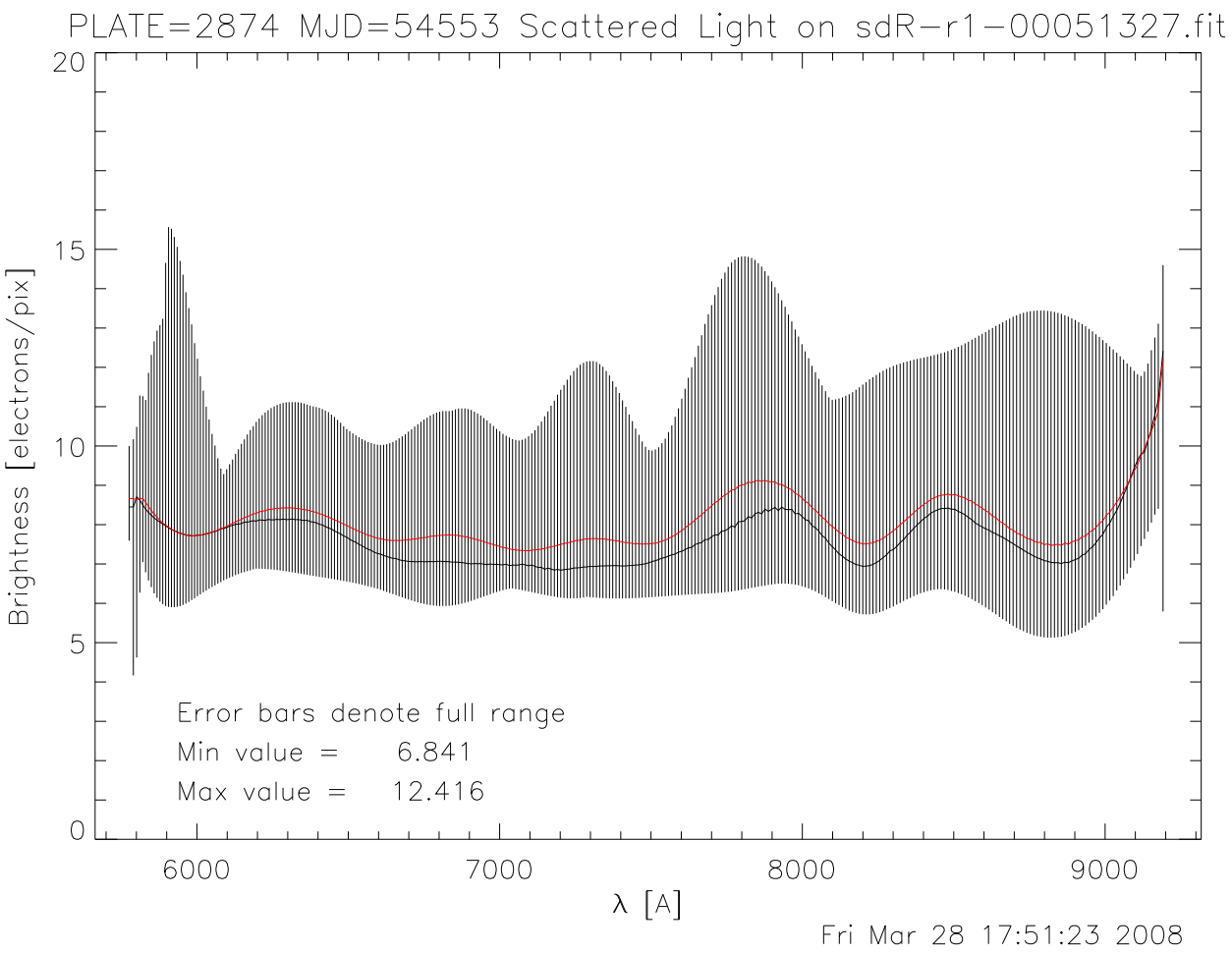

PLATE=2874 MJD=54553 Arcline Fit for sdR-r1-00051330.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Fri Mar 28 17:47:36 2008

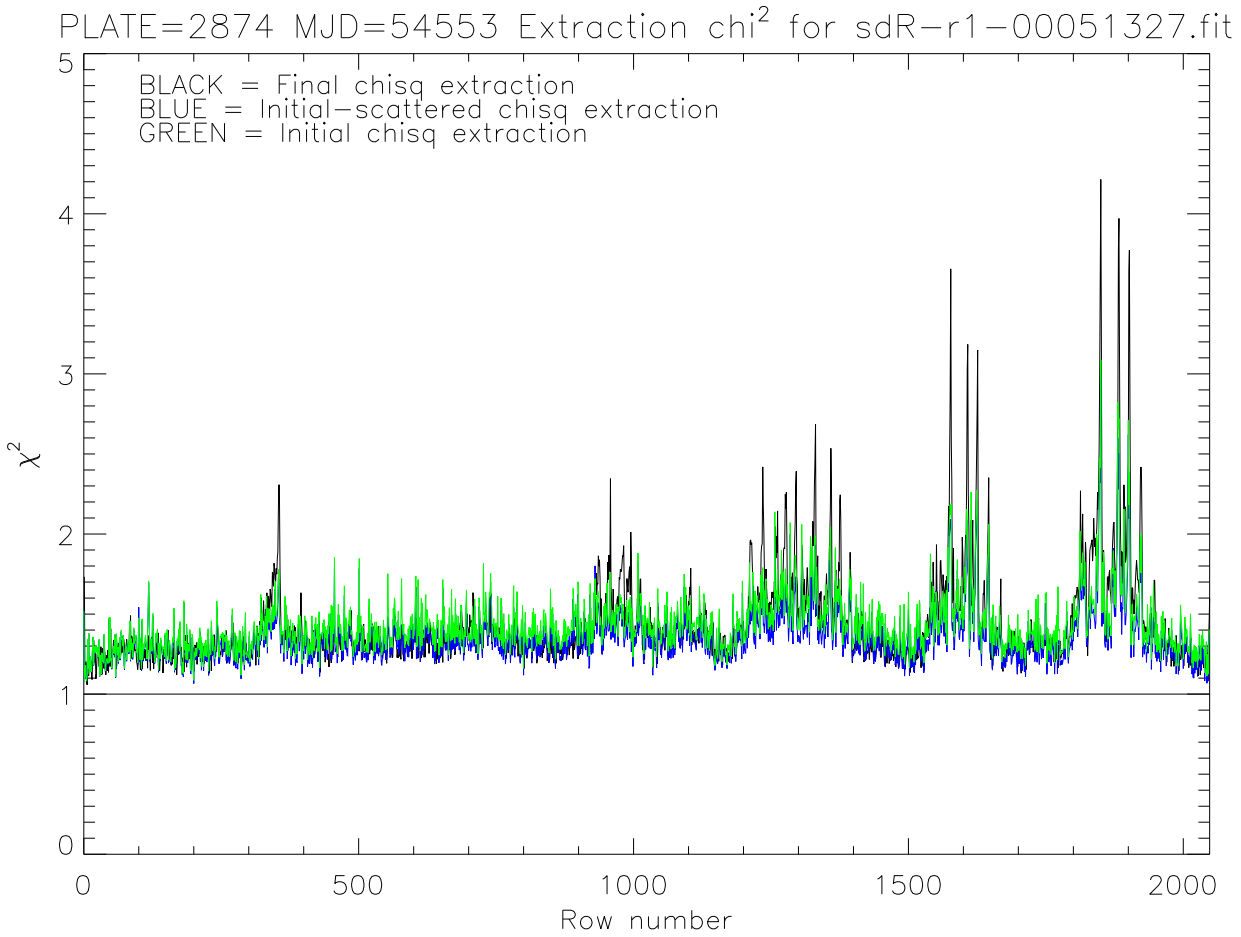

PLATE=2874 MJD=54553 Fiber-Flats for sdR-r1-00051329.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.637
Max value = 1.376
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 28 17:47:44 2008

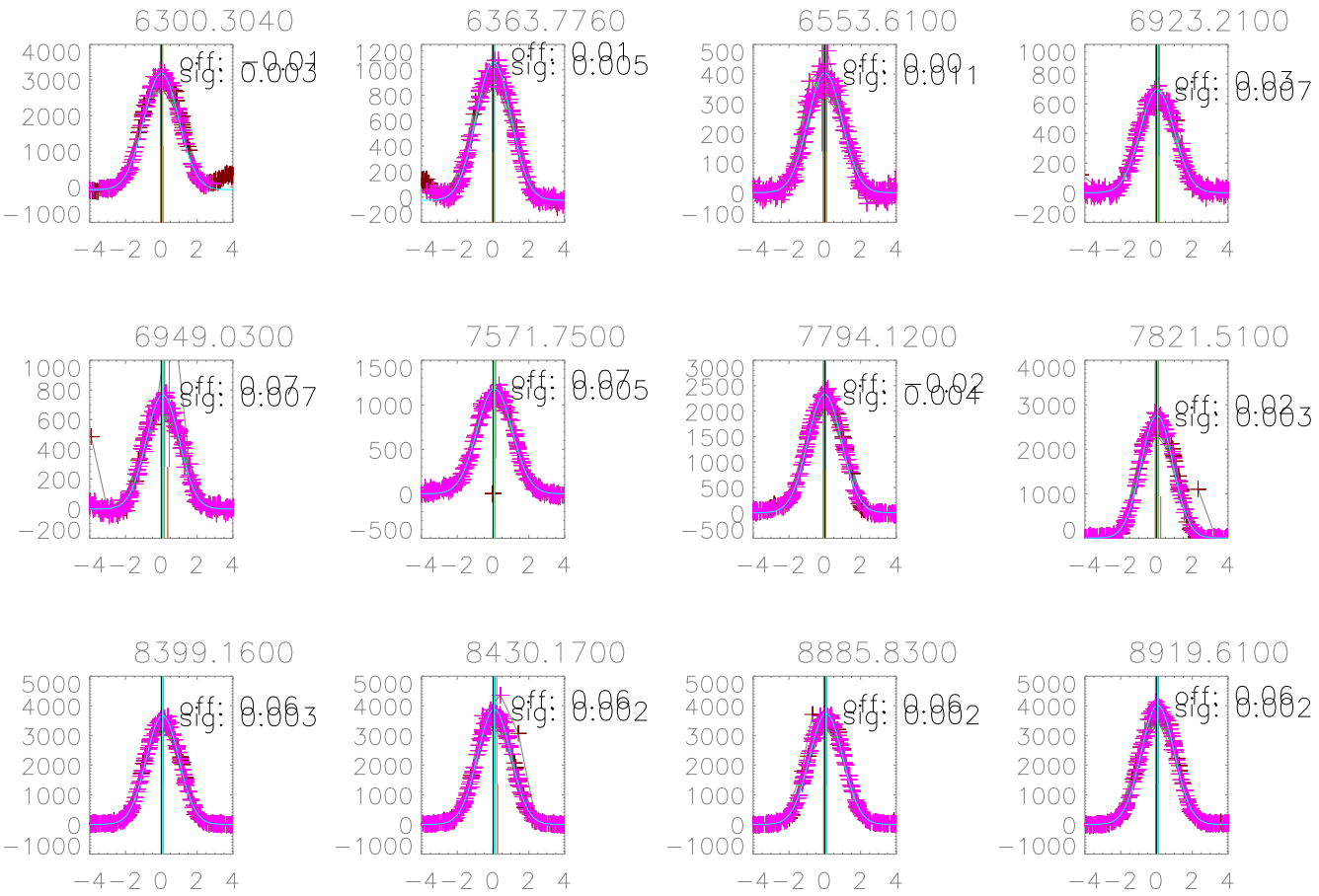

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR-r1-00051327.fi
38.2
38.2
27.3
27.3
16.4
16.4
Y [pix]
X [pix]
0
500
1000
1500
2000

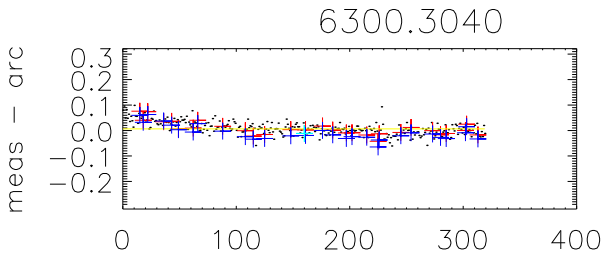

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR-r1-00051327.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.689
Max value = 41.900
Fri Mar 28 17:48:38 2008

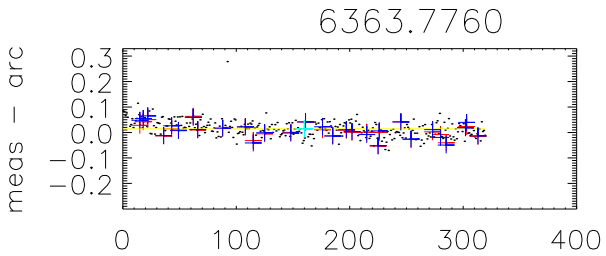

PLATE=2874 MJD=54553 Scattered Light on sdR-r1-00051327.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
0

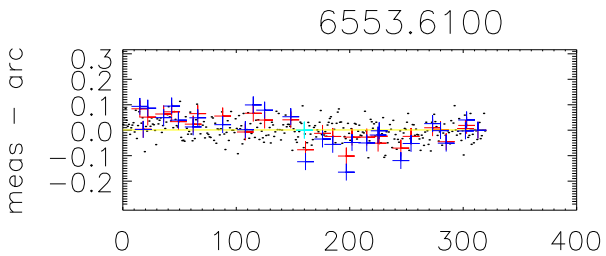

PLATE=2874 MJD=54553 Scattered Light on sdR-r1-00051327.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.841
Max value = 12.416
Fri Mar 28 17:51:23 2008

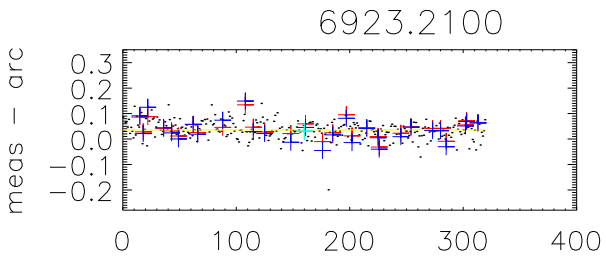

PLATE=2874 MJD=54553 Extraction chi^2 for sdR−r1−00051327.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

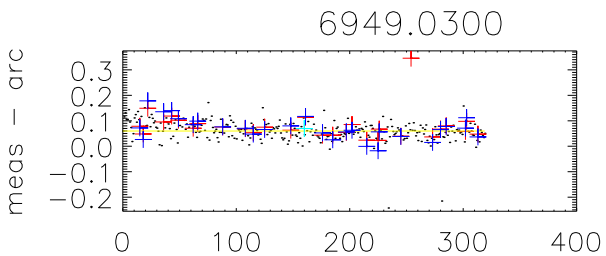

6300.3040
off: −0.01
sig: 0.003
6363.7760
off: 0.01
sig: 0.005
6553.6100
off: 0.00
sig: 0.011
6923.2100
off: 0.03
sig: 0.007
6949.0300
off: 0.07
sig: 0.007
7571.7500
off: 0.07
sig: 0.005
7794.1200
off: −0.02
sig: 0.004
7821.5100
off: 0.02
sig: 0.003
8399.1600
off: 0.06
sig: 0.003
8430.1700
off: 0.06
sig: 0.002
8885.8300
off: 0.06
sig: 0.002
8919.6100
off: 0.06
sig: 0.002

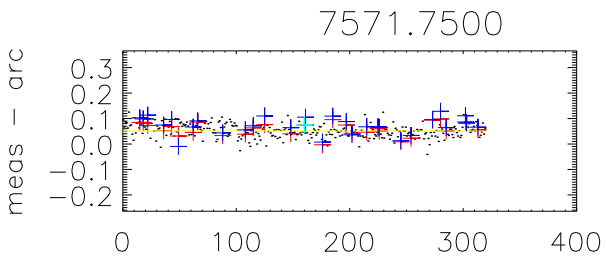

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

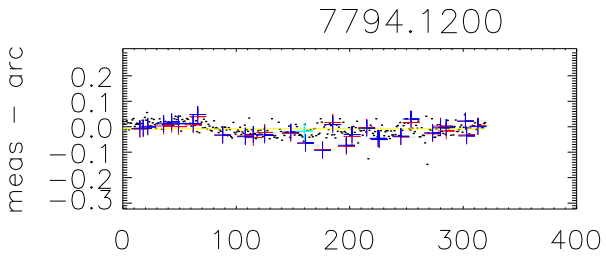

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

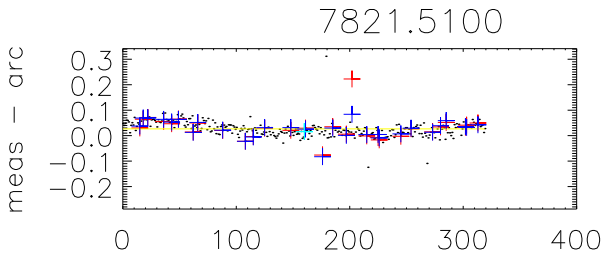

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

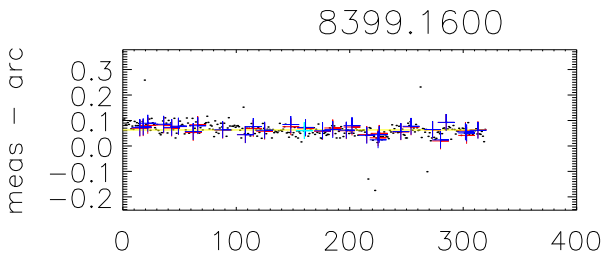

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

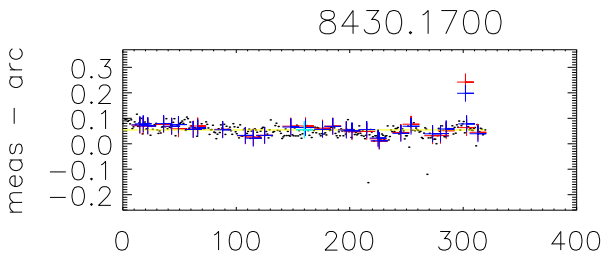

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

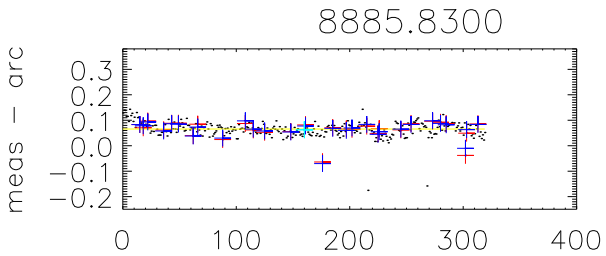

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

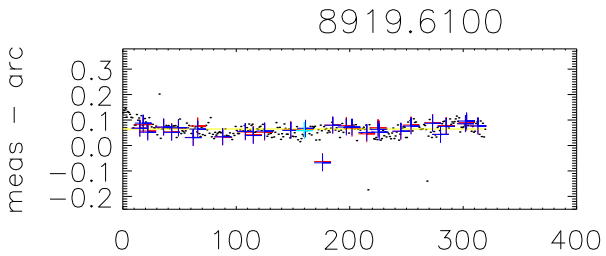

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

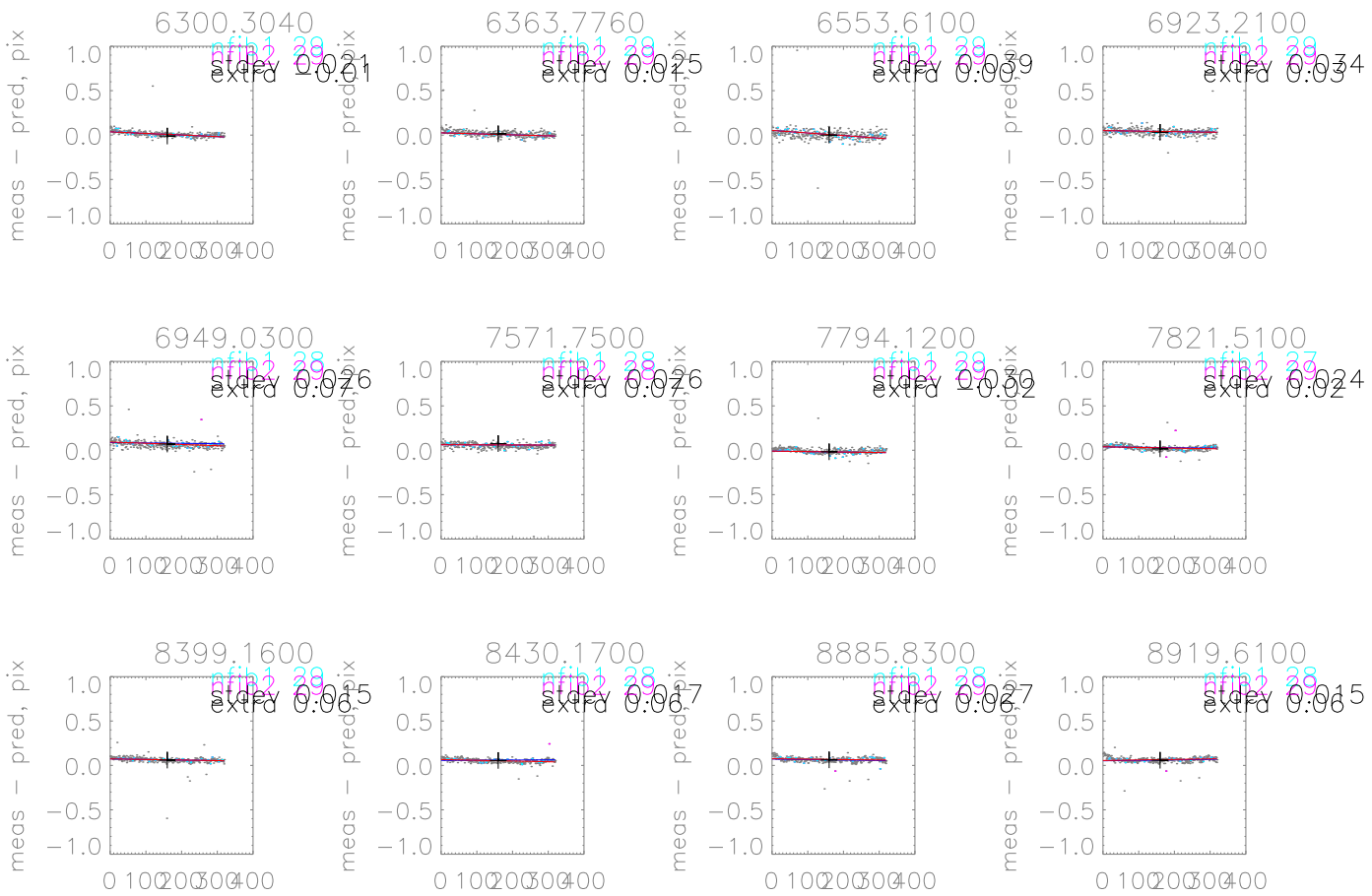

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

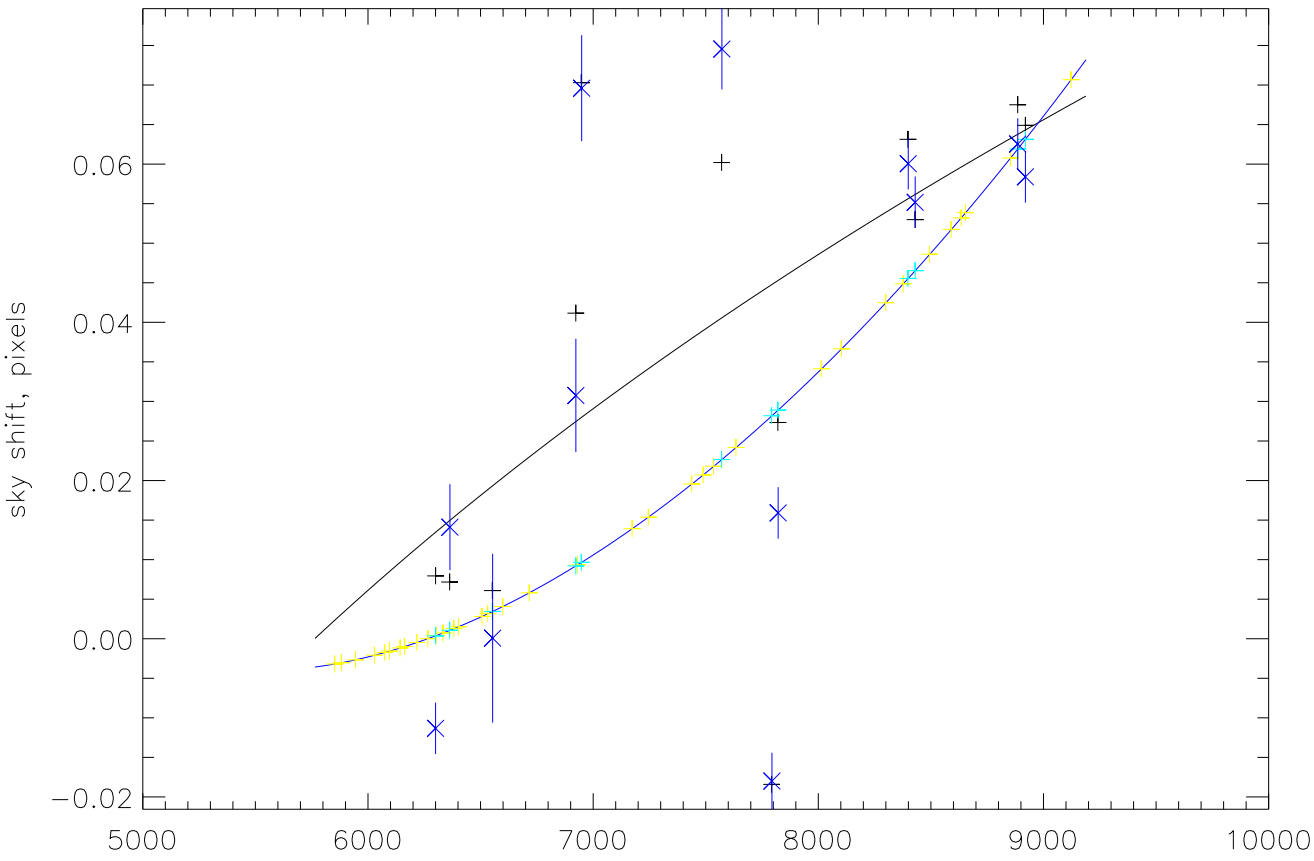

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

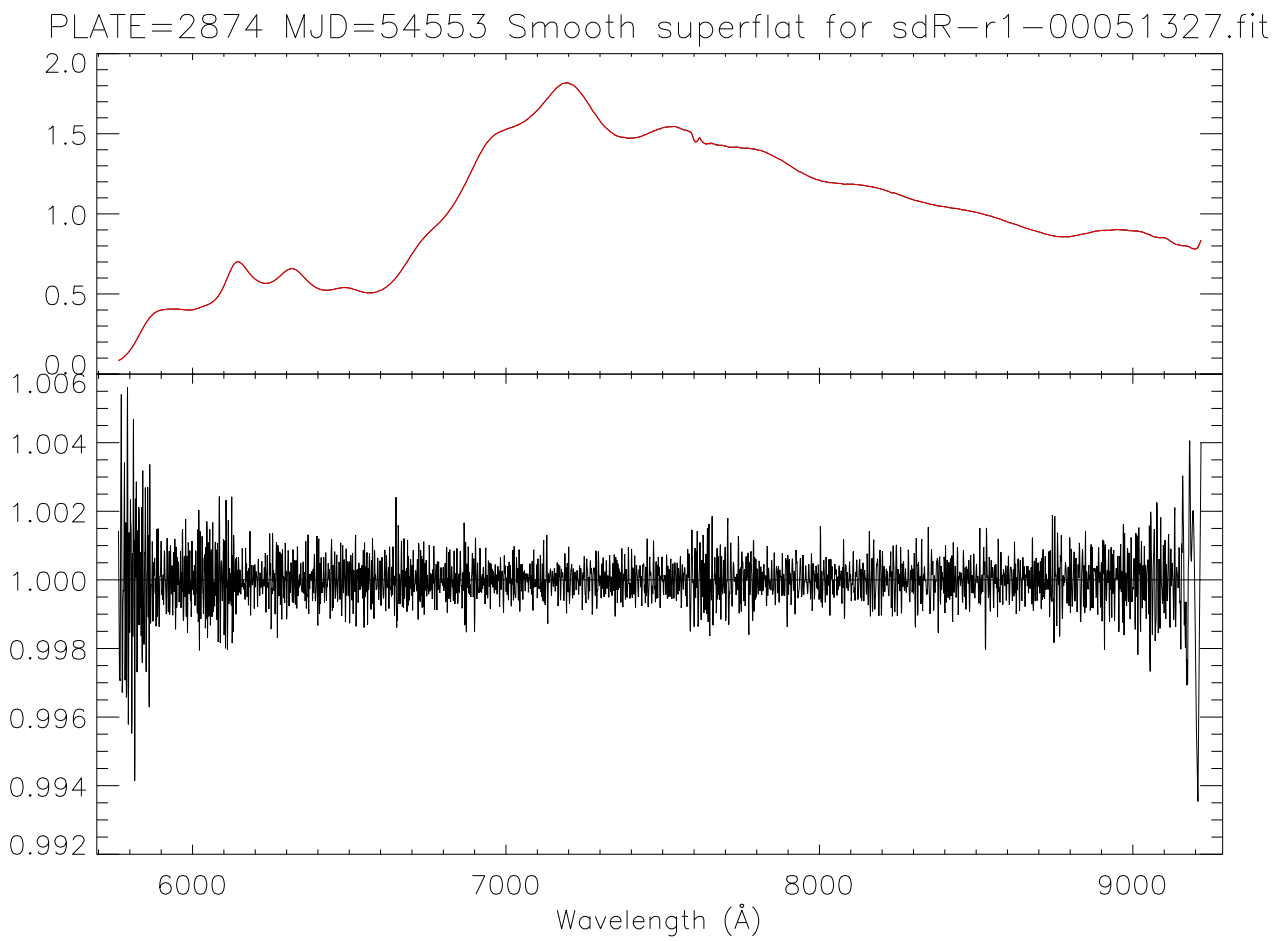

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

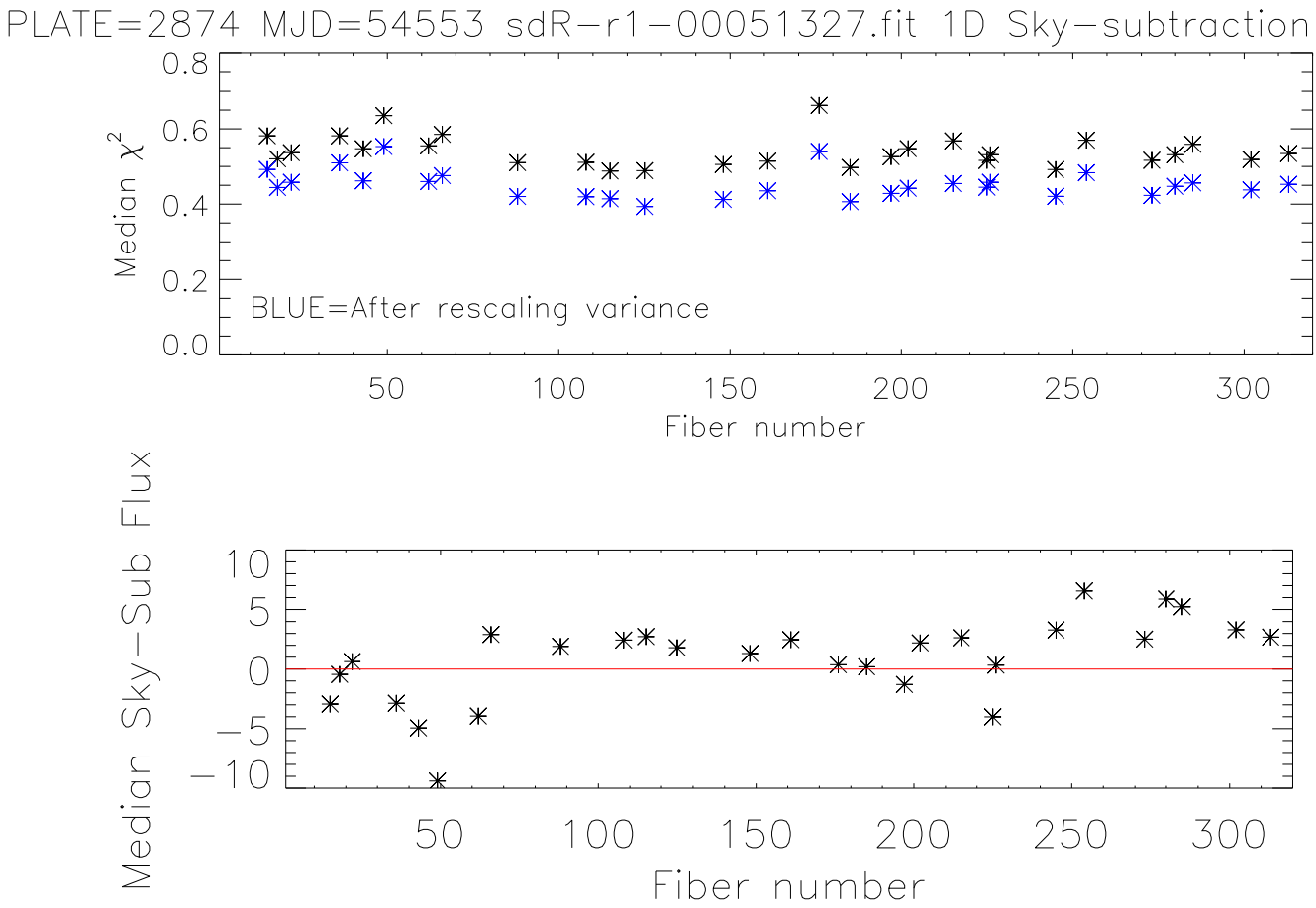

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

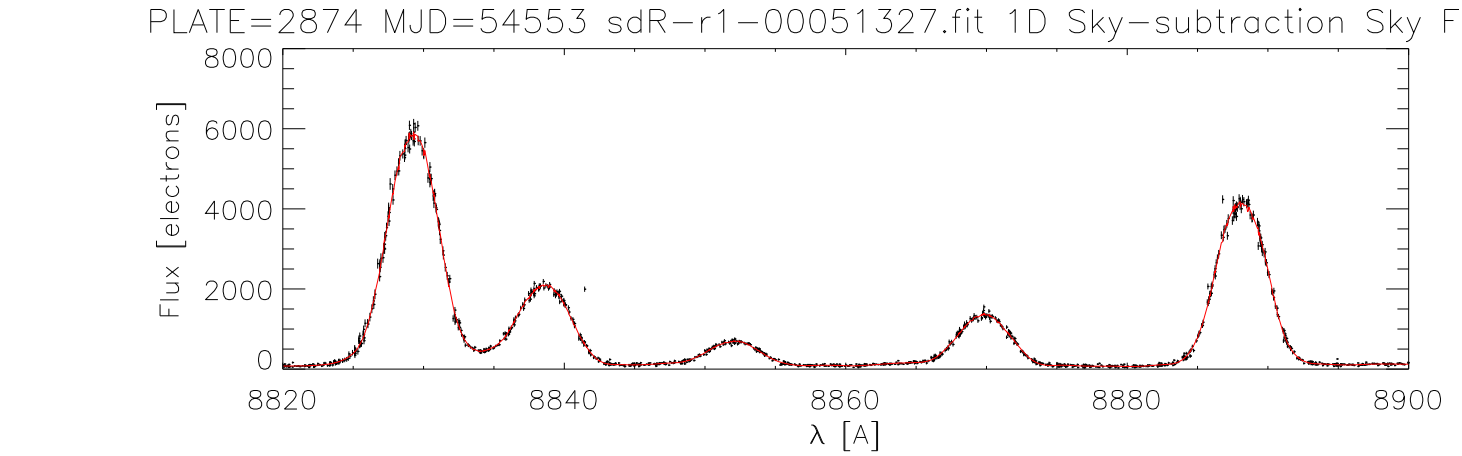

6300.3040
mfhi1 28
mfhi2 28
stdev 0.021
extra −0.01
6363.7760
mfhi1 28
mfhi2 28
stdev 0.025
extra 0.01
6553.6100
mfhi1 28
mfhi2 28
stdev 0.039
extra 0.00
6923.2100
mfhi1 28
mfhi2 28
stdev 0.034
extra 0.03
6949.0300
mfhi1 28
mfhi2 28
stdev 0.026
extra 0.07
7571.7500
mfhi1 28
mfhi2 28
stdev 0.026
extra 0.07
7794.1200
mfhi1 28
mfhi2 28
stdev 0.030
extra −0.02
7821.5100
mfhi1 27
mfhi2 29
stdev 0.024
extra 0.02
8399.1600
mfhi1 28
mfhi2 29
stdev 0.045
extra 0.06
8430.1700
mfhi1 28
mfhi2 29
stdev 0.047
extra 0.06
8885.8300
mfhi1 28
mfhi2 29
stdev 0.027
extra 0.06
8919.6100
mfhi1 28
mfhi2 29
stdev 0.015
extra 0.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

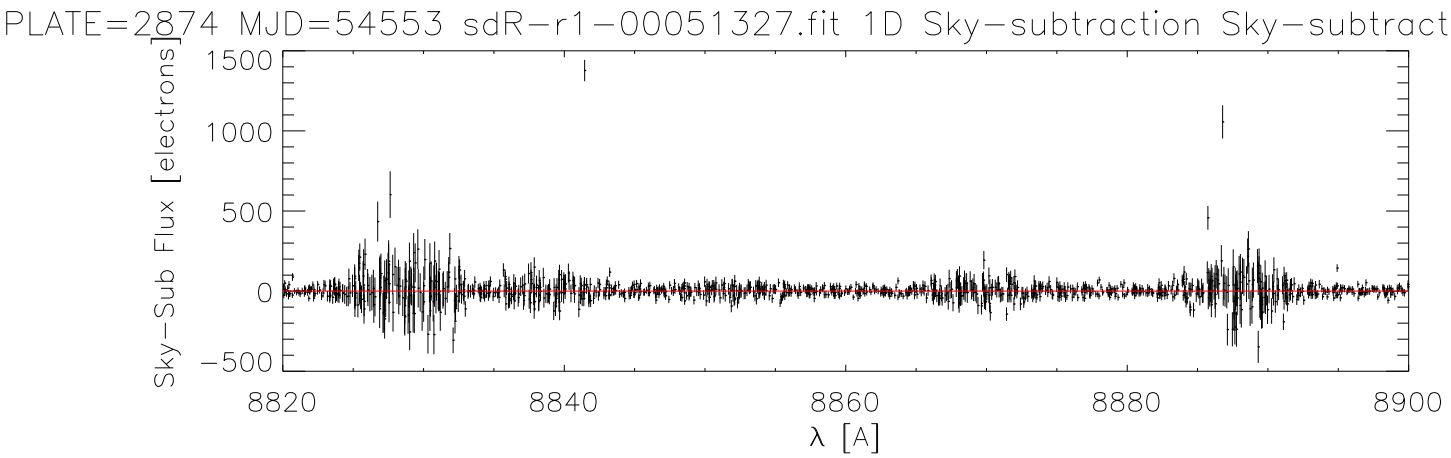

sky shift, pixels
0.06
0.04
0.02
0.00
−0.02
5000
6000
7000
8000
9000
10000

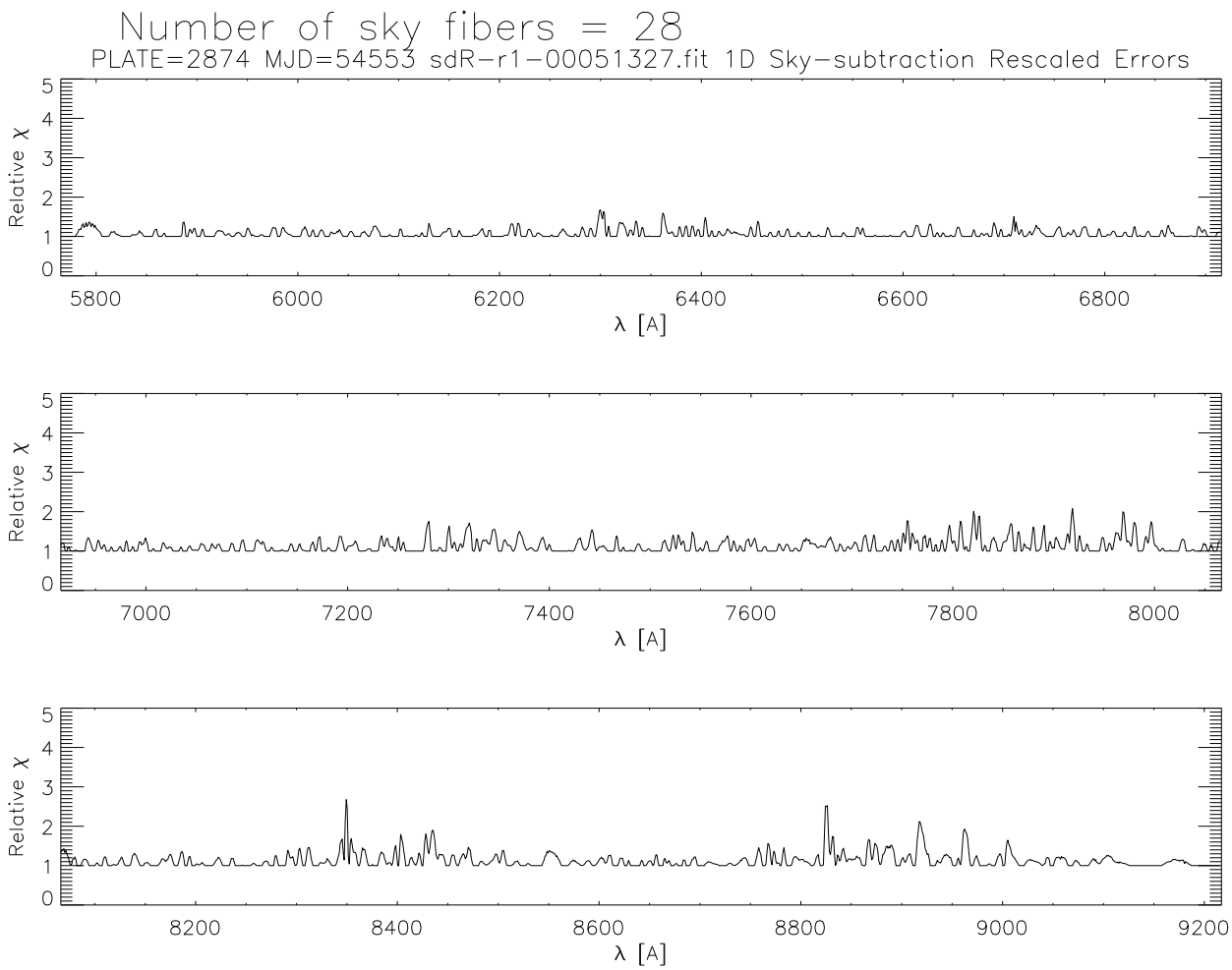
es= 0.0000

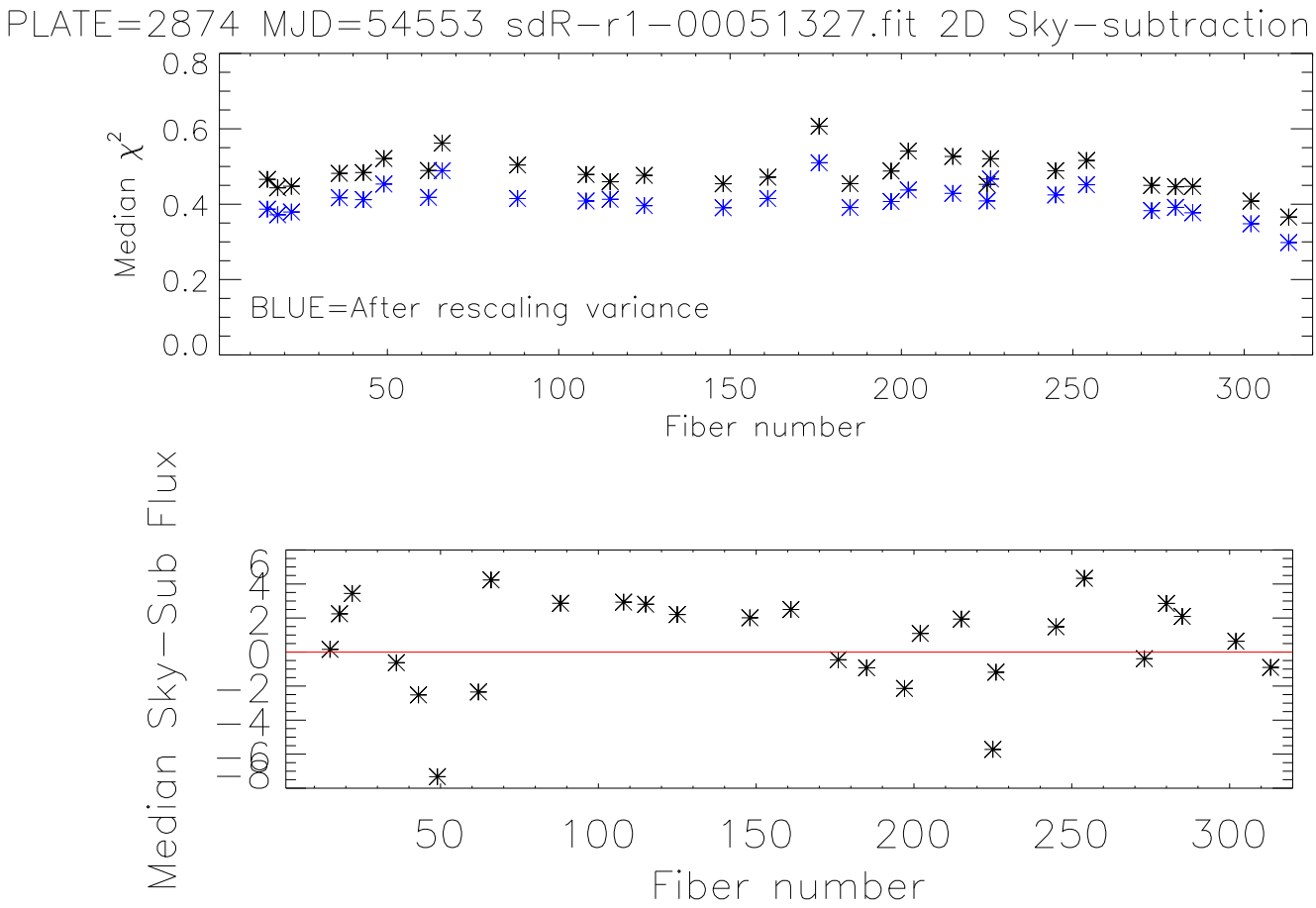

PLATE=2874 MJD=54553 Smooth superflat for sdR-r1-00051327.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

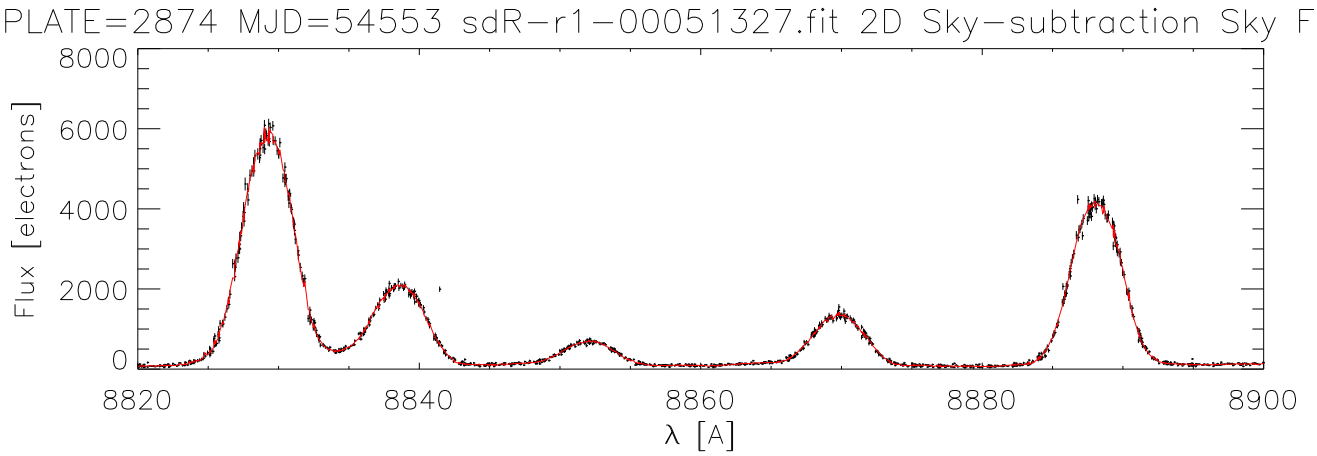

PLATE=2874 MJD=54553 sdR-r1-00051327.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

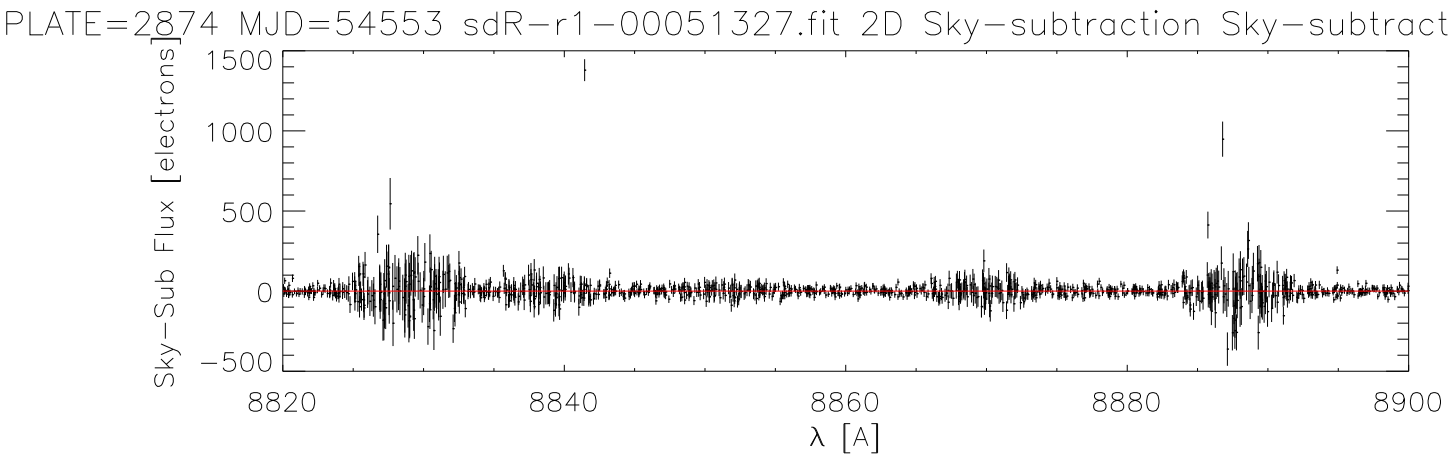

PLATE=2874 MJD=54553 sdR-r1-00051327.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

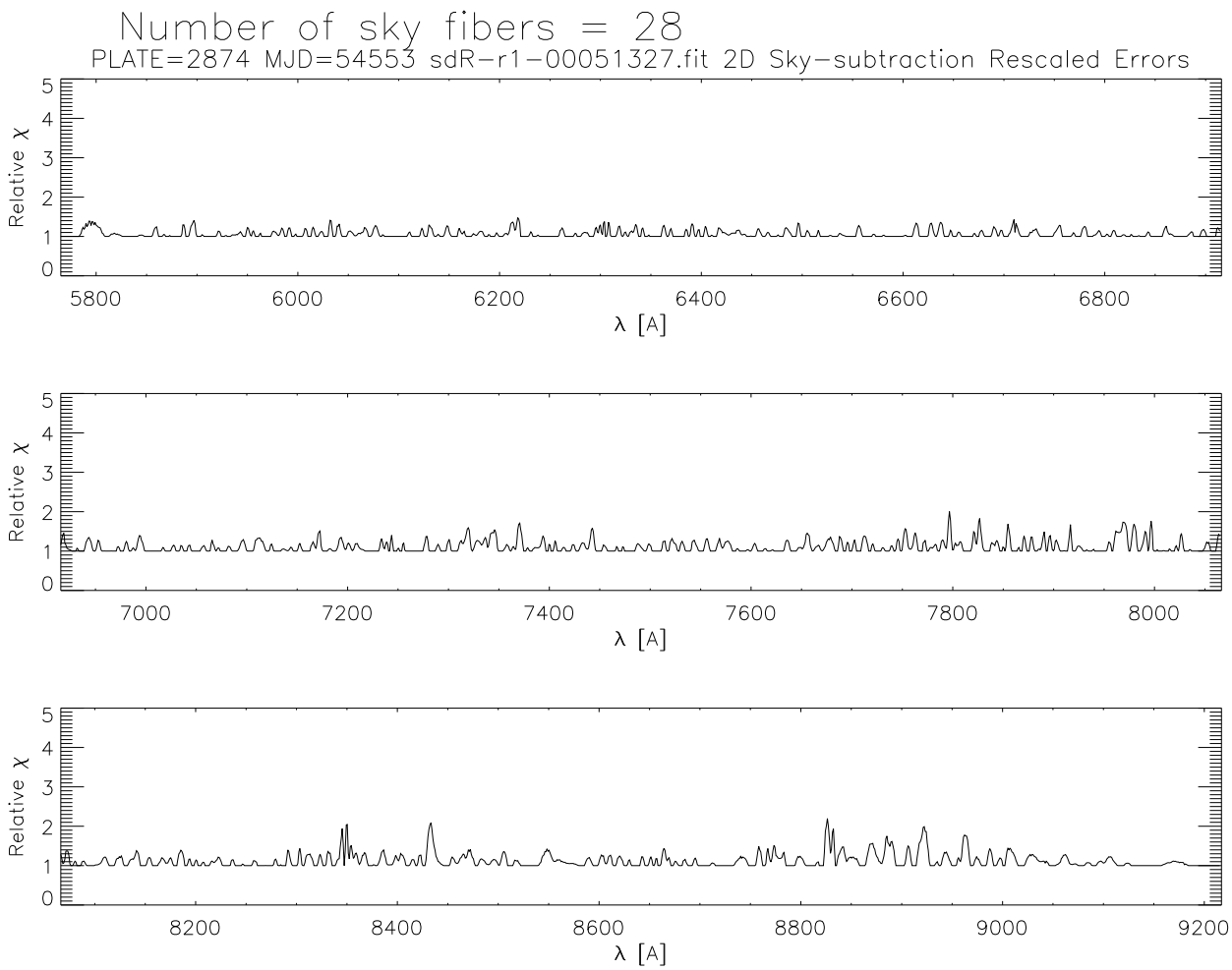

PLATE=2874 MJD=54553 sdR-r1-00051327.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

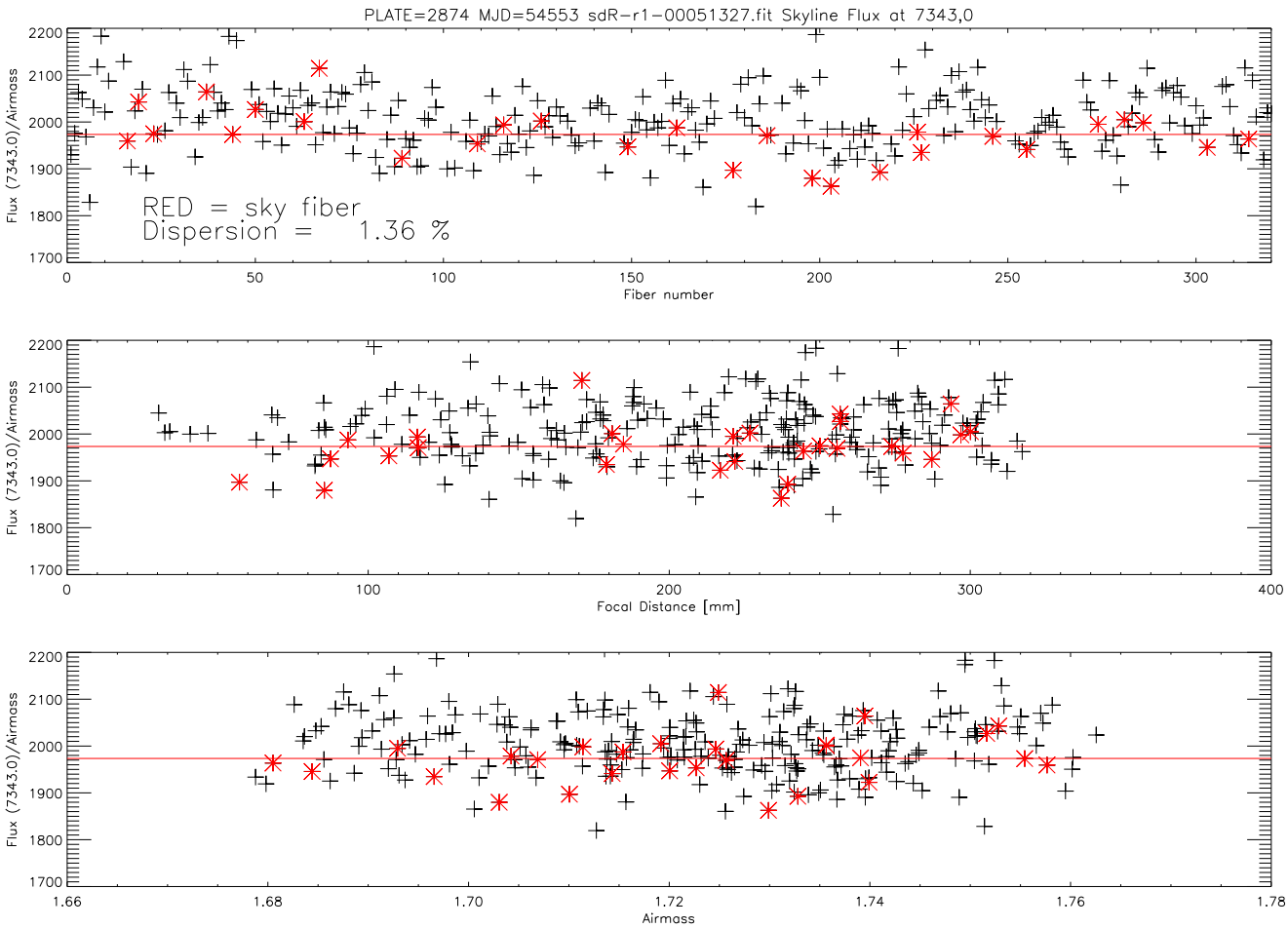

Number of sky fibers = 28
PLATE=2874 MJD=54553 sdR-r1-00051327.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

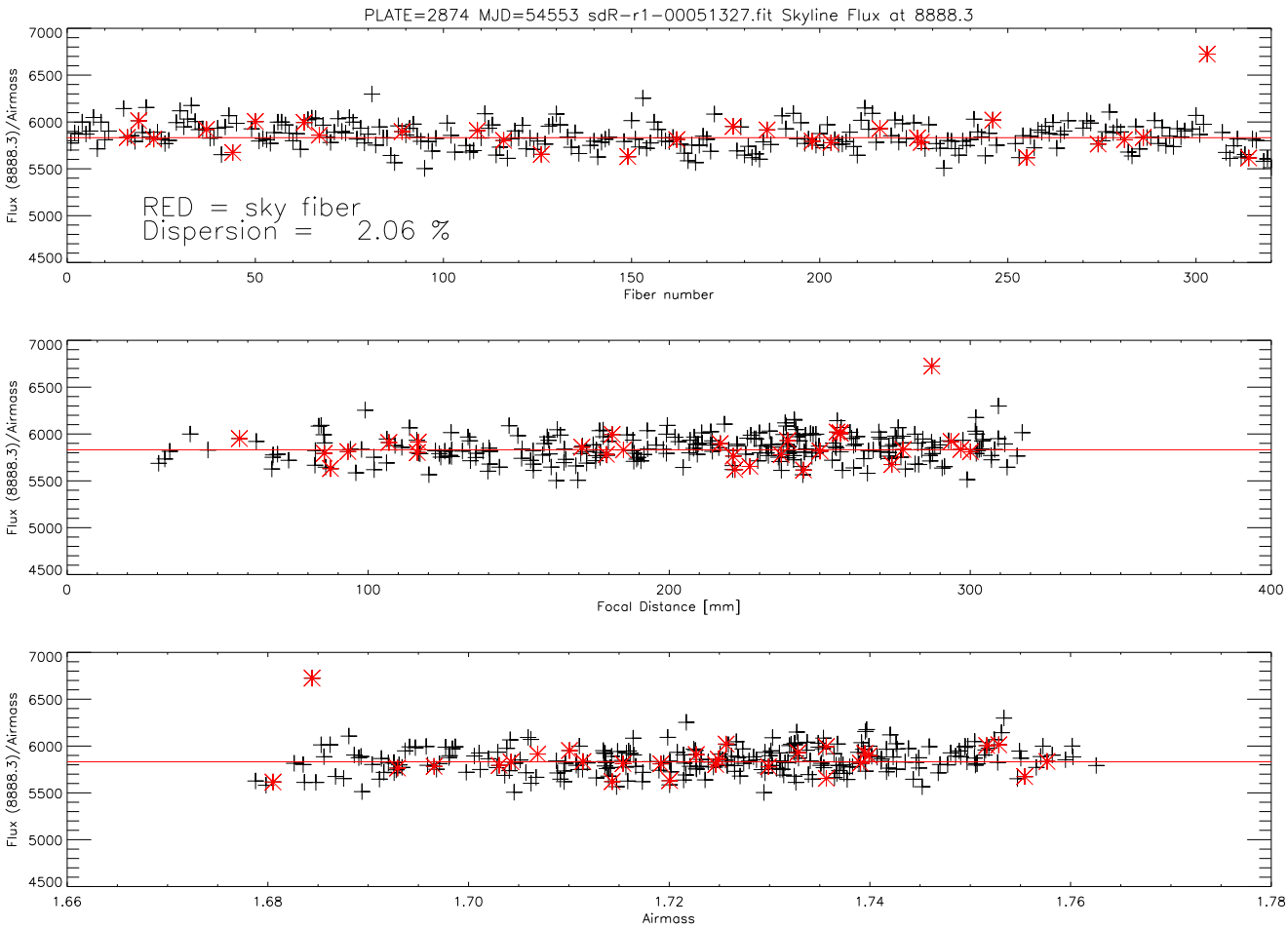

PLATE=2874 MJD=54553 sdR-r1-00051327.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-0.006
-0.004
-0.002
0.000
0.002
0.004
0.006
50
100
150
200
250
300
Fiber number

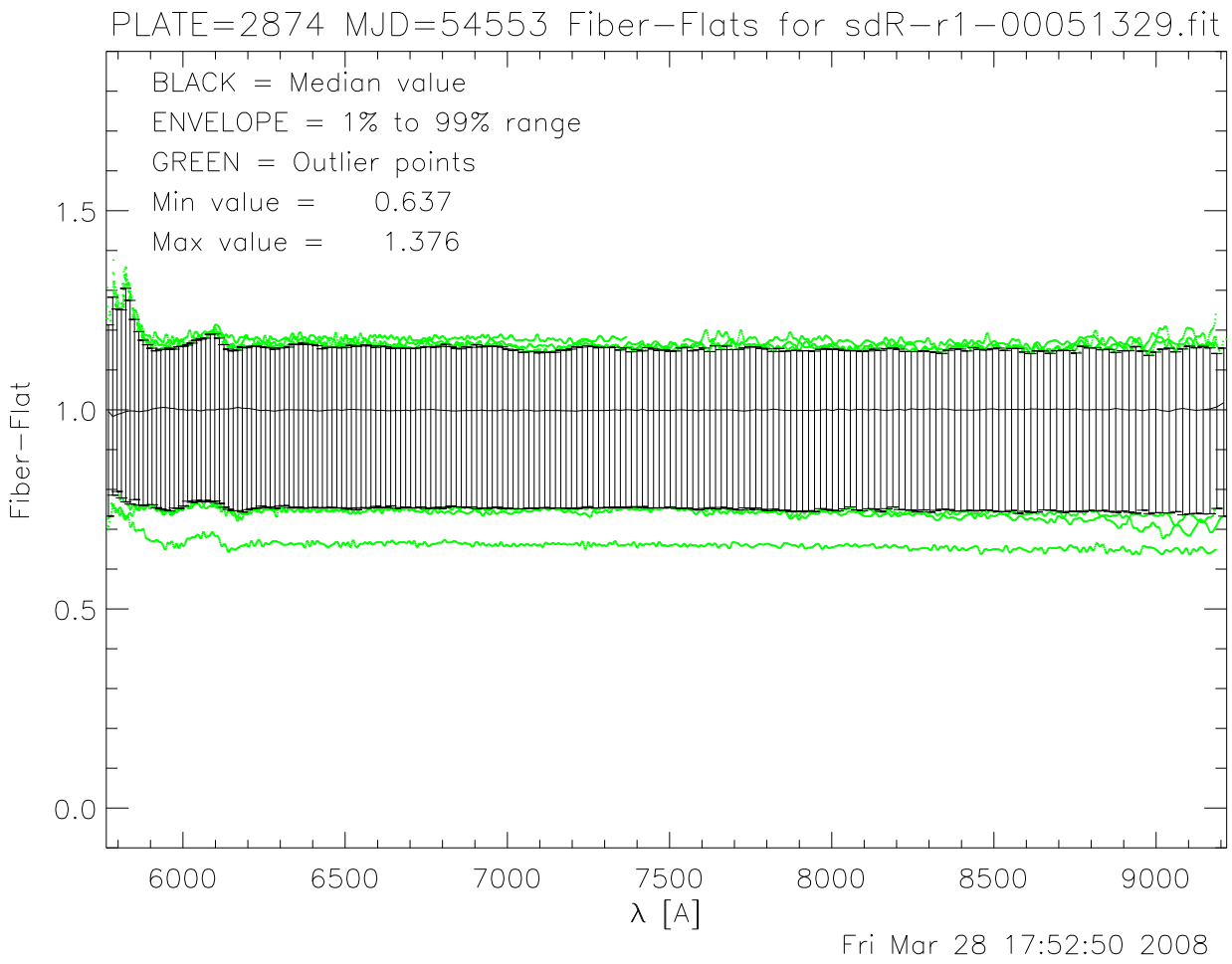

PLATE=2874 MJD=54553 sdR-r1-00051327.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

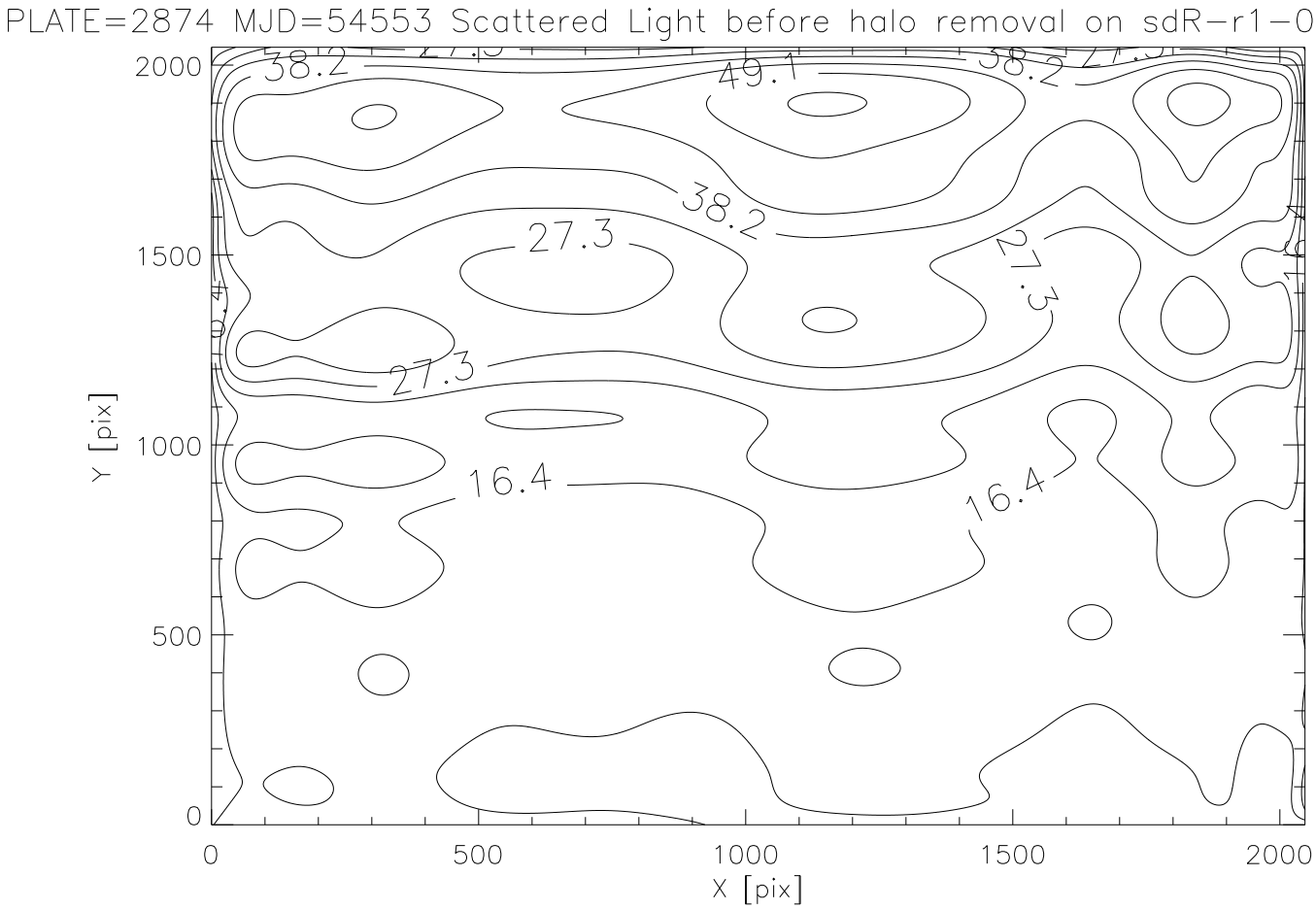

PLATE=2874 MJD=54553 sdR-r1-00051327.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

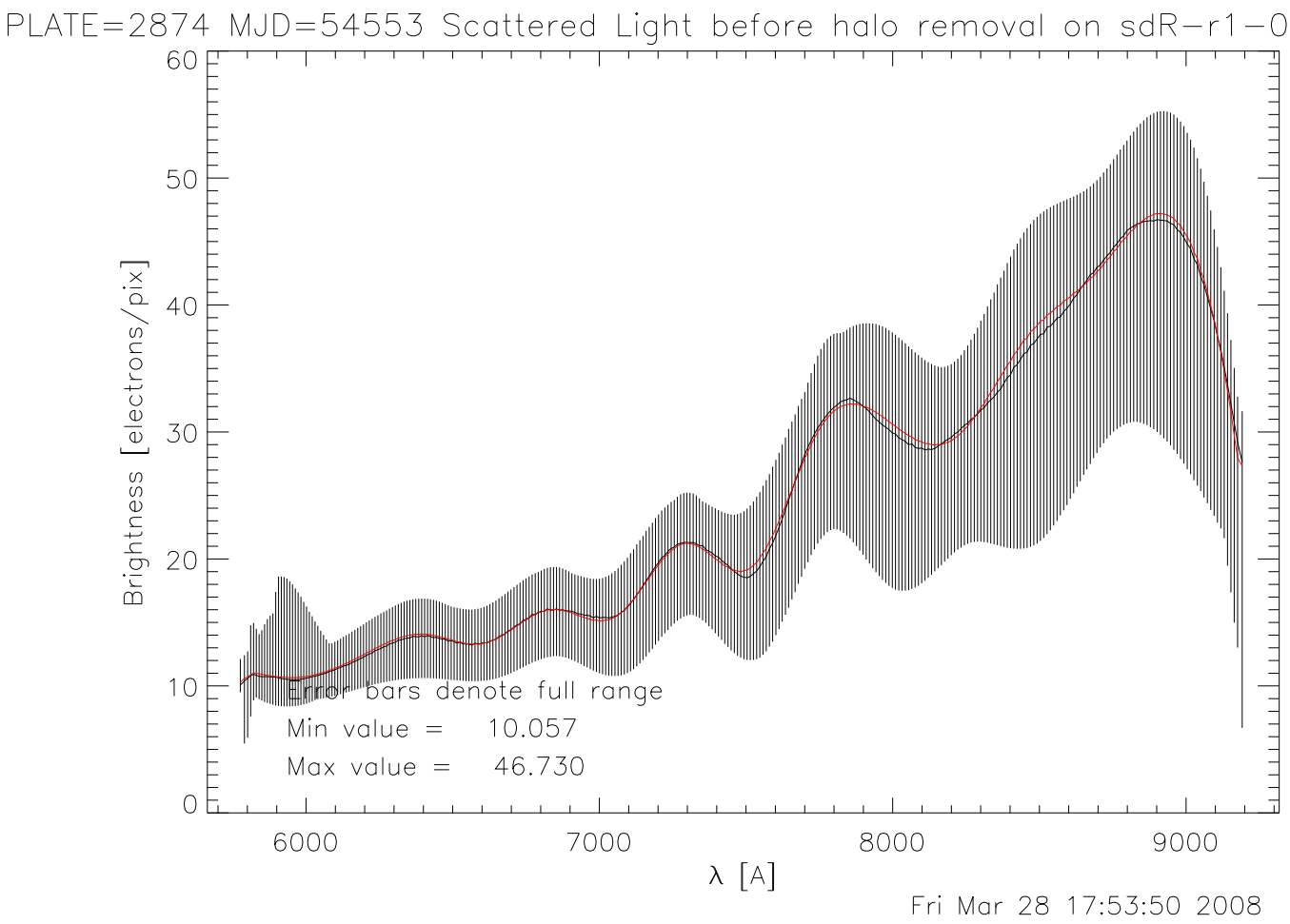

Number of sky fibers = 28
PLATE=2874 MJD=54553 sdR-r1-00051327.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

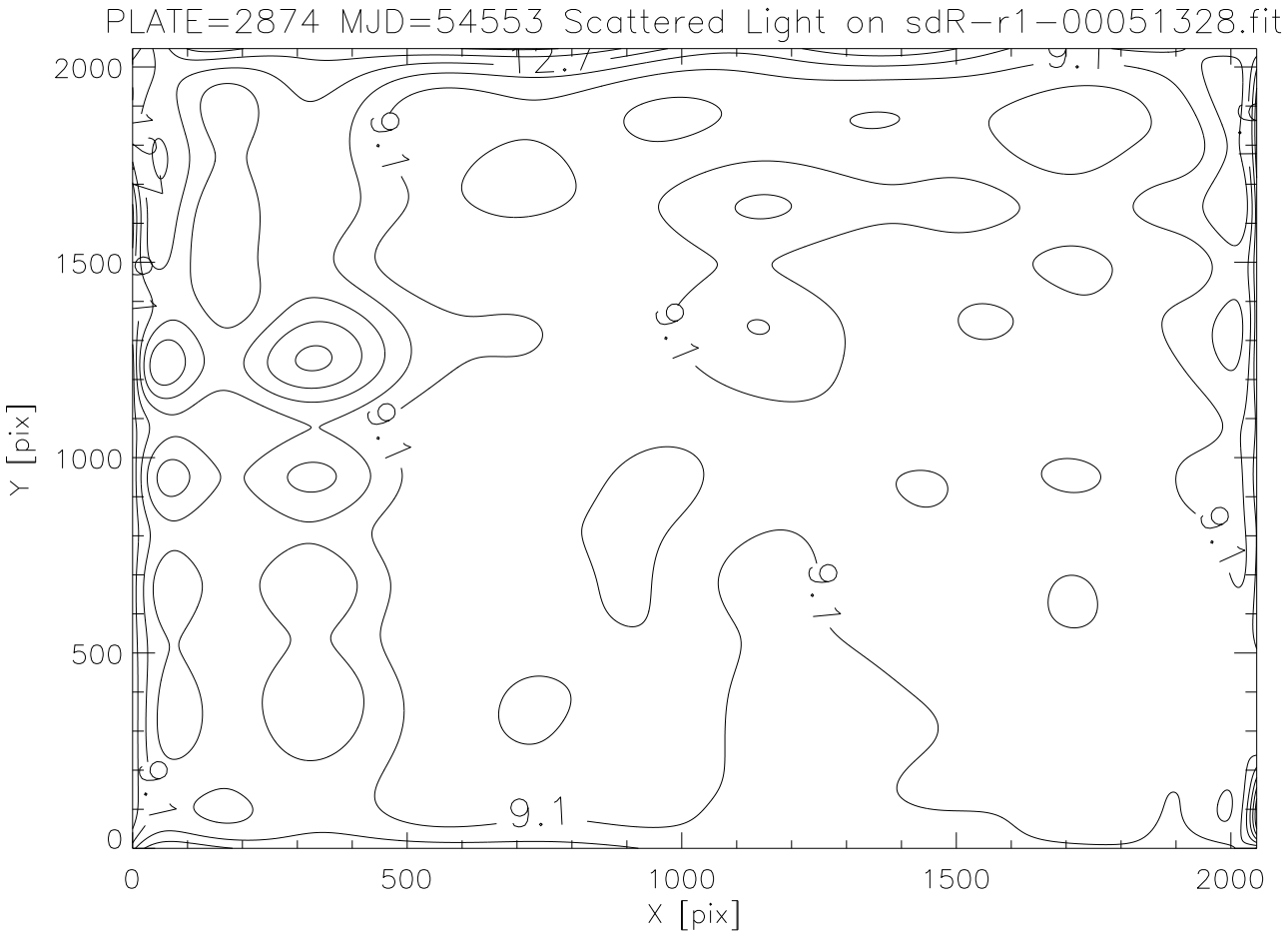

PLATE=2874 MJD=54553 sdR-r1-00051327.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.36 %
Fiber number
Focal Distance [mm]
Airmass

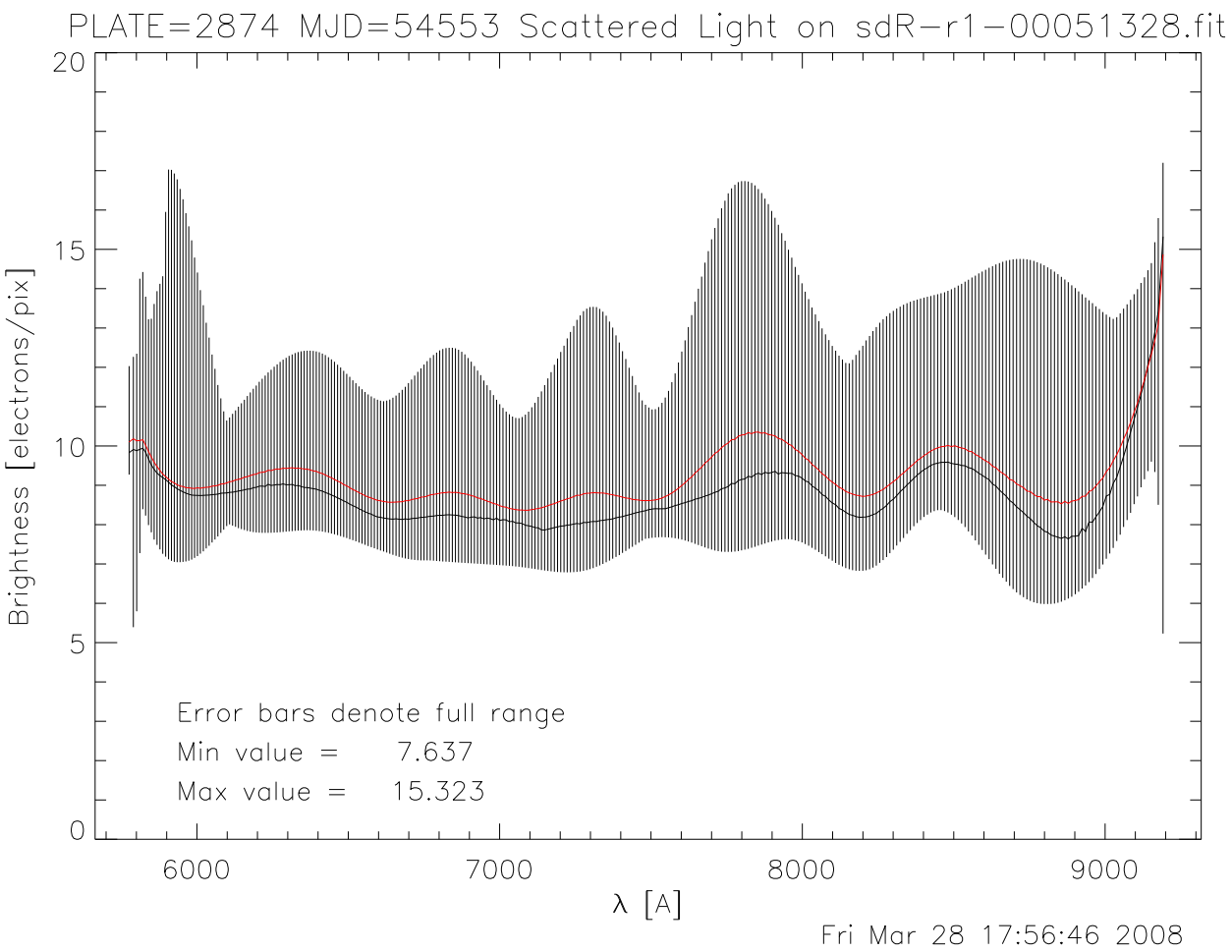

PLATE=2874 MJD=54553 sdR-r1-00051327.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.06 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

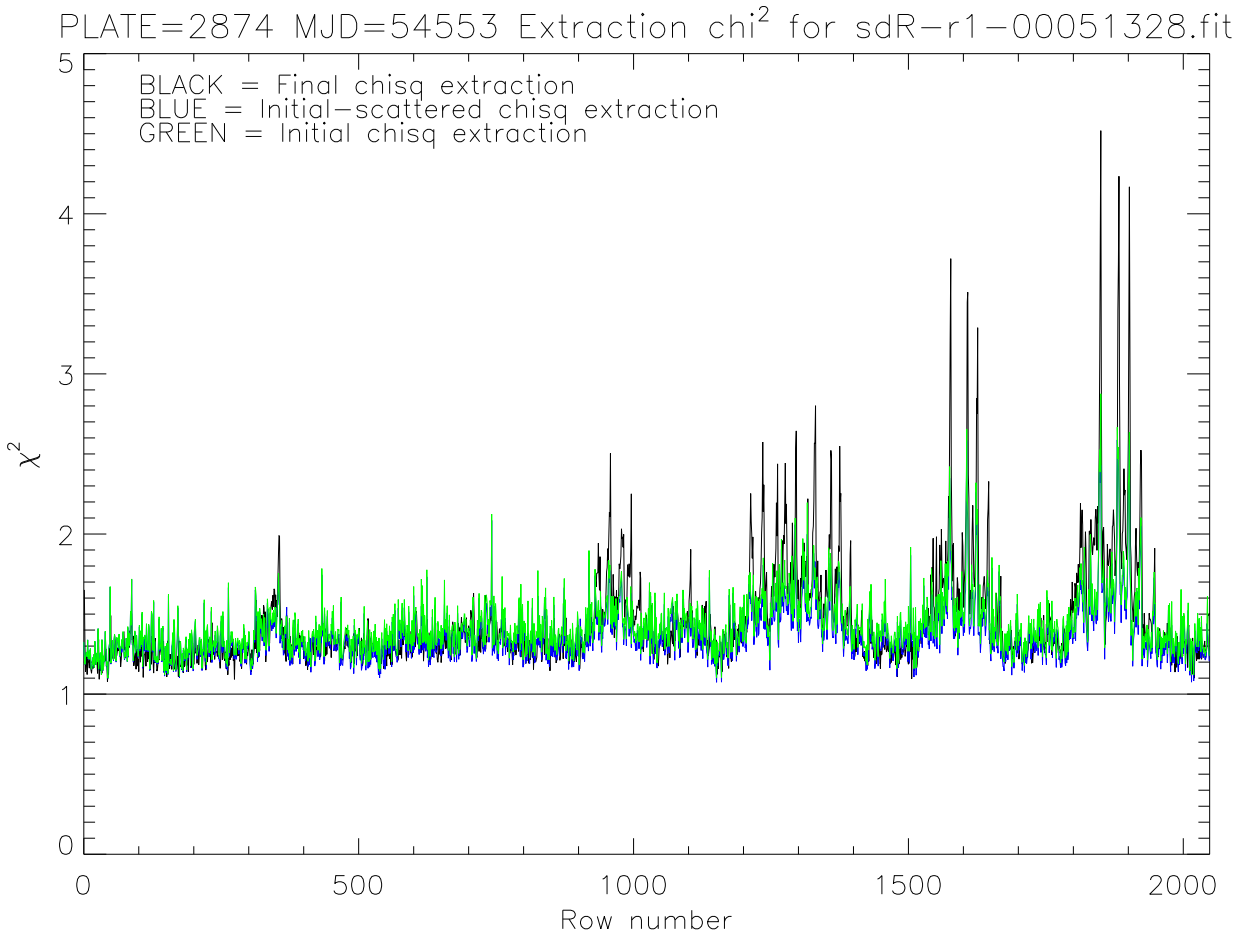

PLATE=2874 MJD=54553 Fiber−Flats for sdR−r1−00051329.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.637
Max value = 1.376
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 28 17:52:50 2008

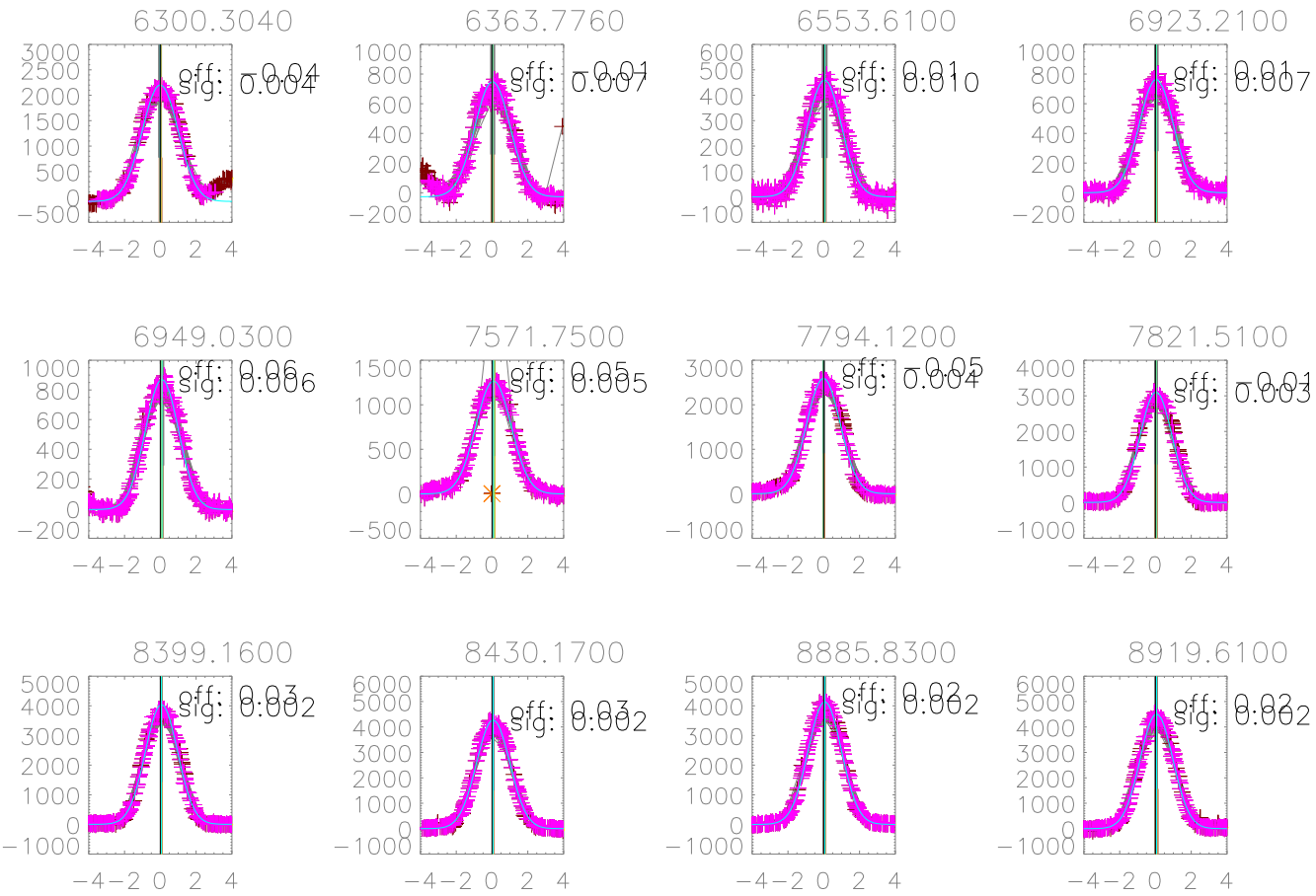

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR-r1-00051328.fi
38.2
49.1
38.2
38.2
27.3
27.3
27.3
16.4
16.4
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

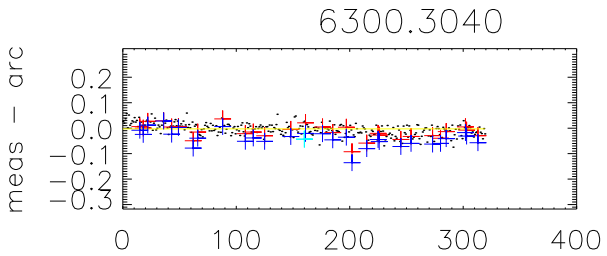

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR-r1-00051328.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.057
Max value = 46.730
Fri Mar 28 17:53:50 2008

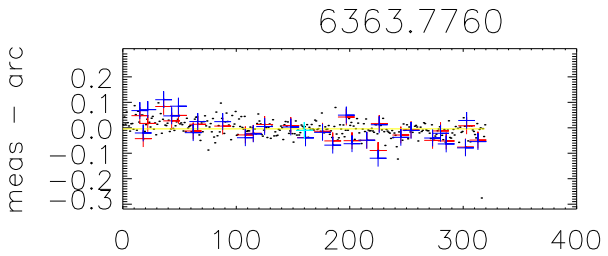

PLATE=2874 MJD=54553 Scattered Light on sdR-r1-00051328.fit
12.7
9.1
0
Y [pix]
X [pix]
0
500
1000
1500
2000

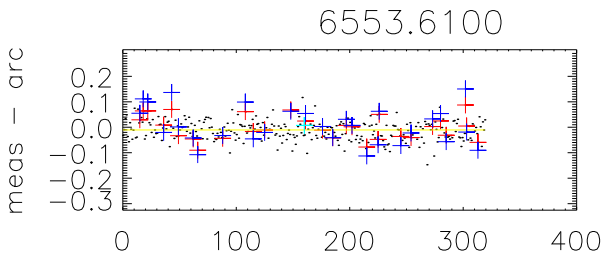

PLATE=2874 MJD=54553 Scattered Light on sdR-r1-00051328.fit
Brightness [electrons/pix]
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 7.637
Max value = 15.323
Fri Mar 28 17:56:46 2008

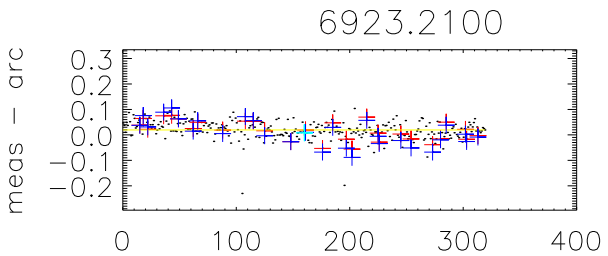

PLATE=2874 MJD=54553 Extraction chi^2 for sdR−r1−00051328.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

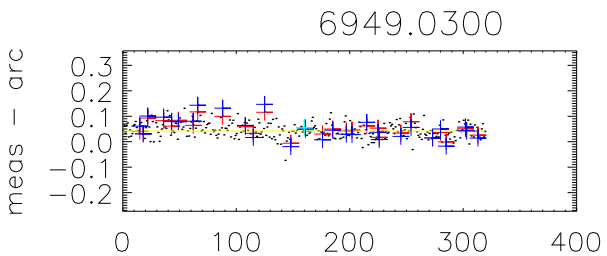

6300.3040
off: −0.04
sig: 0.004
6363.7760
off: −0.01
sig: 0.007
6553.6100
off: 0.01
sig: 0.010
6923.2100
off: 0.01
sig: 0.007
6949.0300
off: 0.06
sig: 0.006
7571.7500
off: 0.05
sig: 0.005
7794.1200
off: −0.05
sig: 0.004
7821.5100
off: −0.01
sig: 0.003
8399.1600
off: 0.03
sig: 0.002
8430.1700
off: 0.03
sig: 0.002
8885.8300
off: 0.02
sig: 0.002
8919.6100
off: 0.02
sig: 0.002

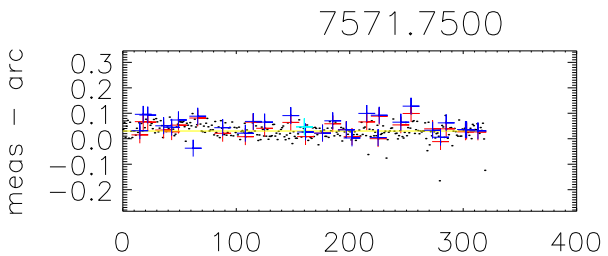

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

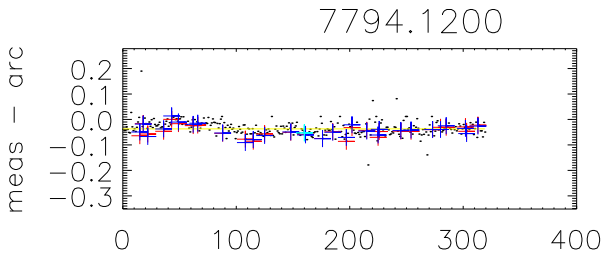

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

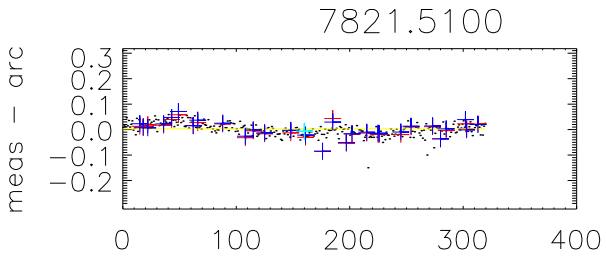

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

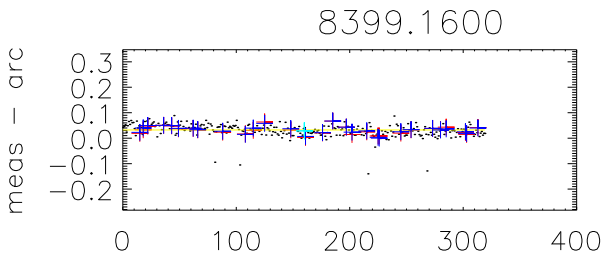

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

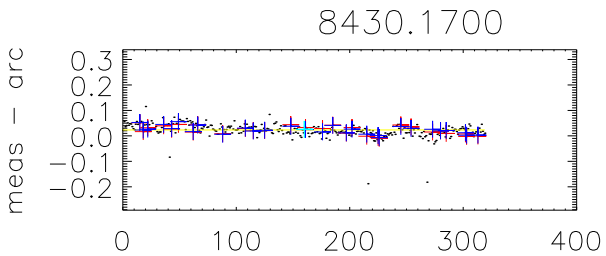

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

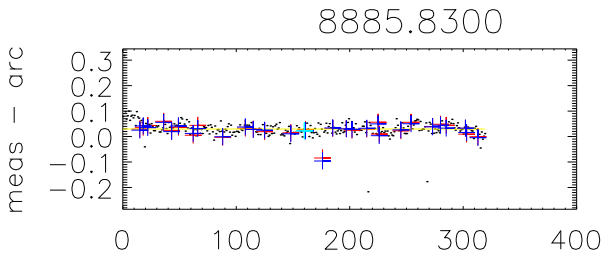

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

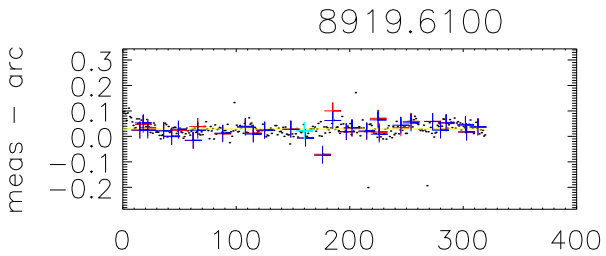

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

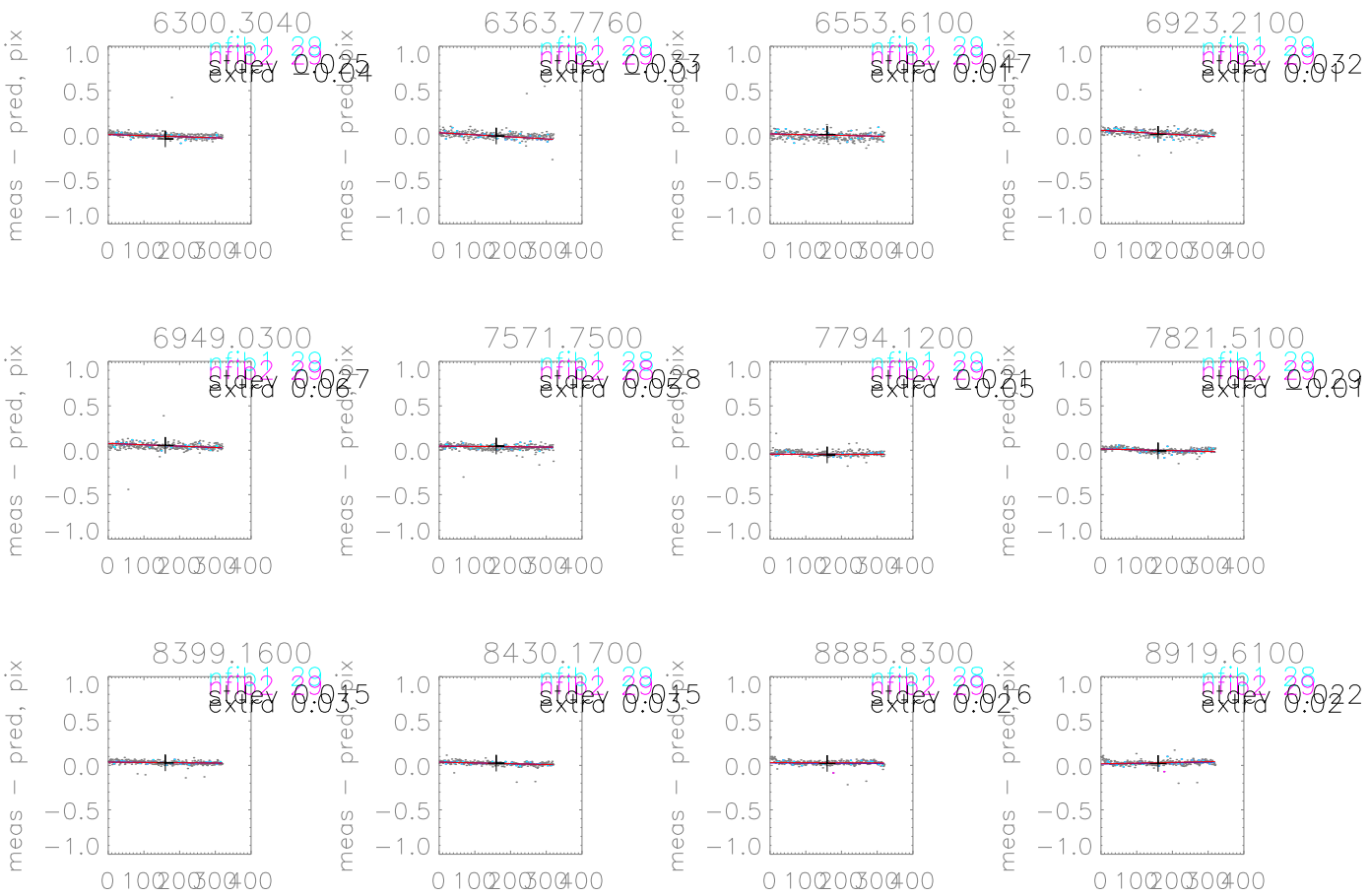

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

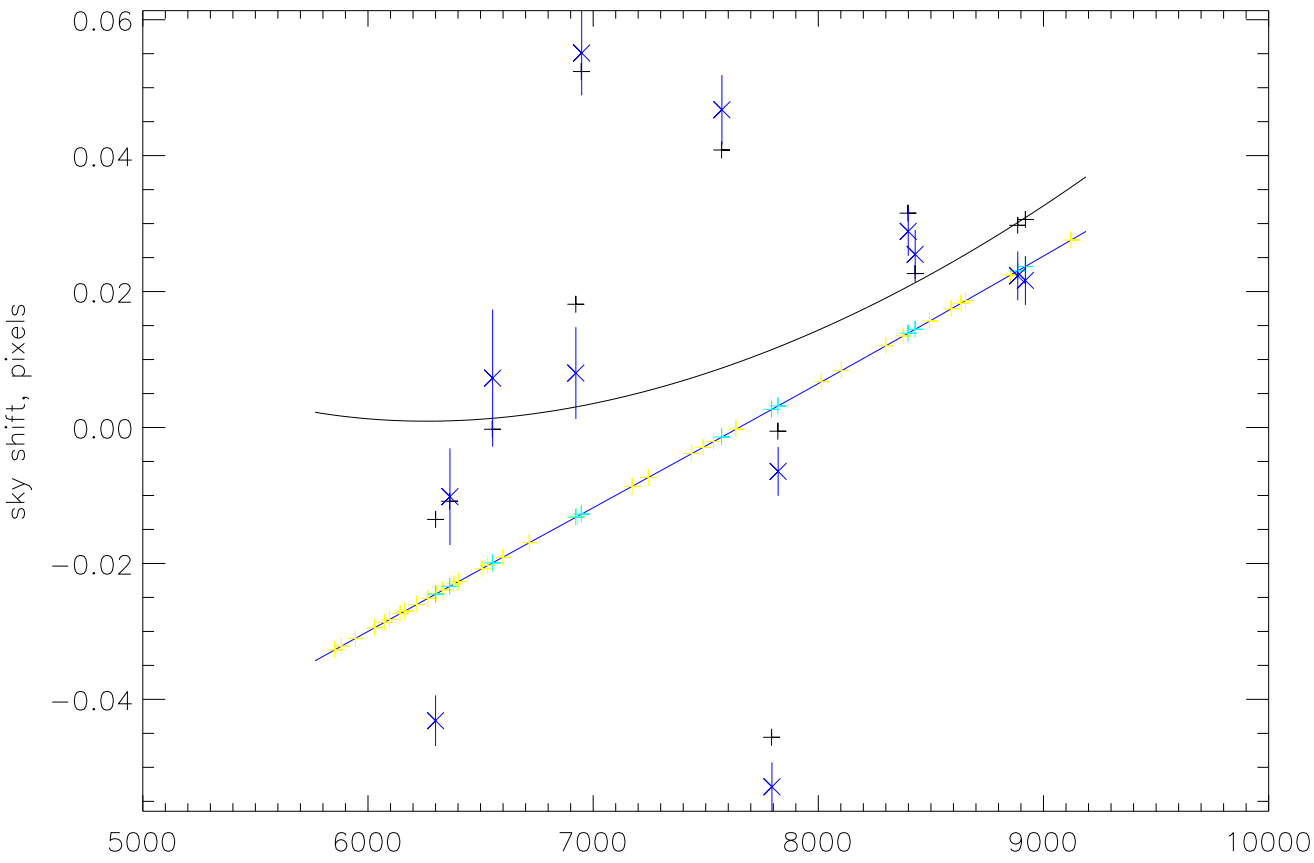

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

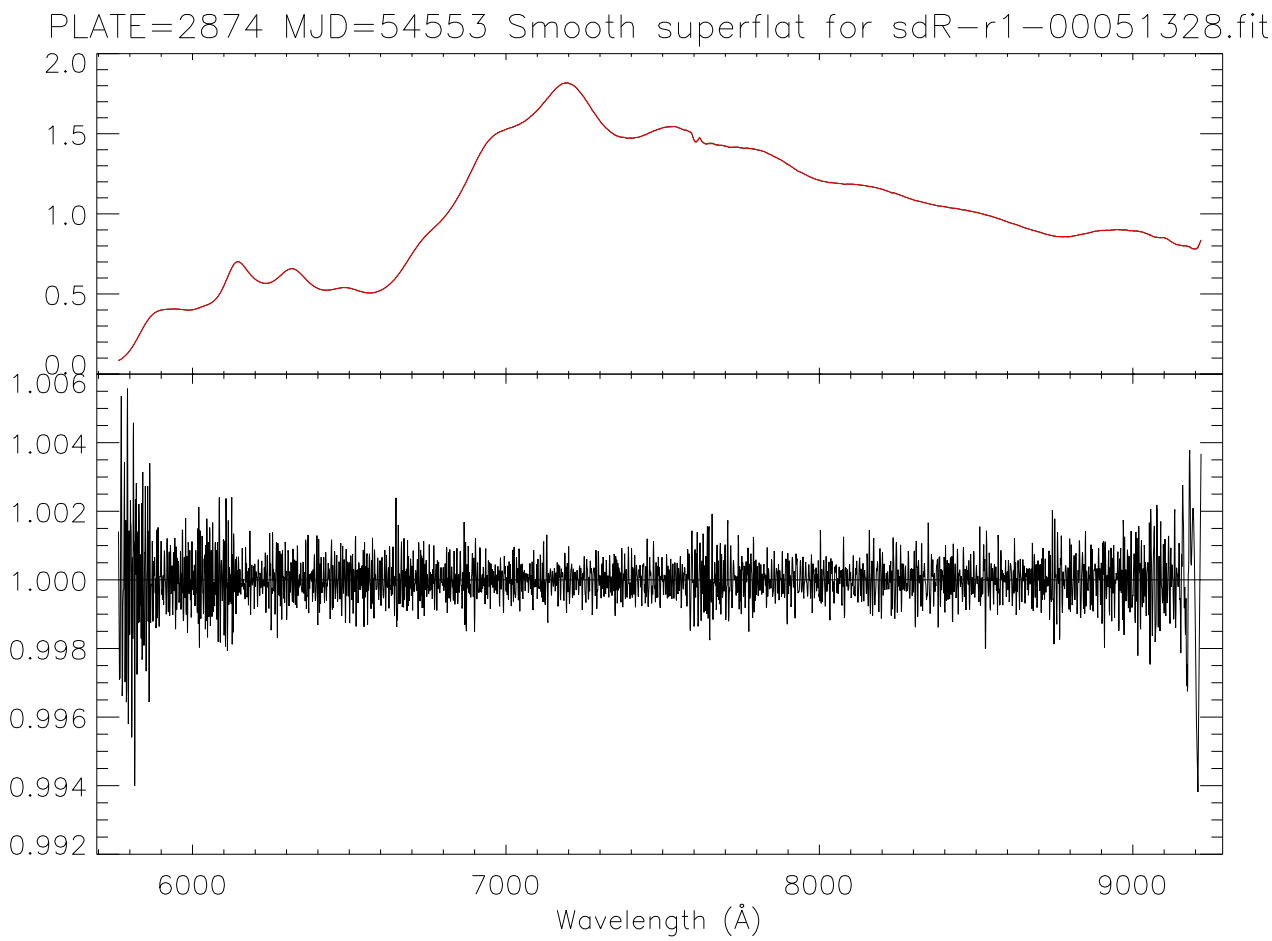

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

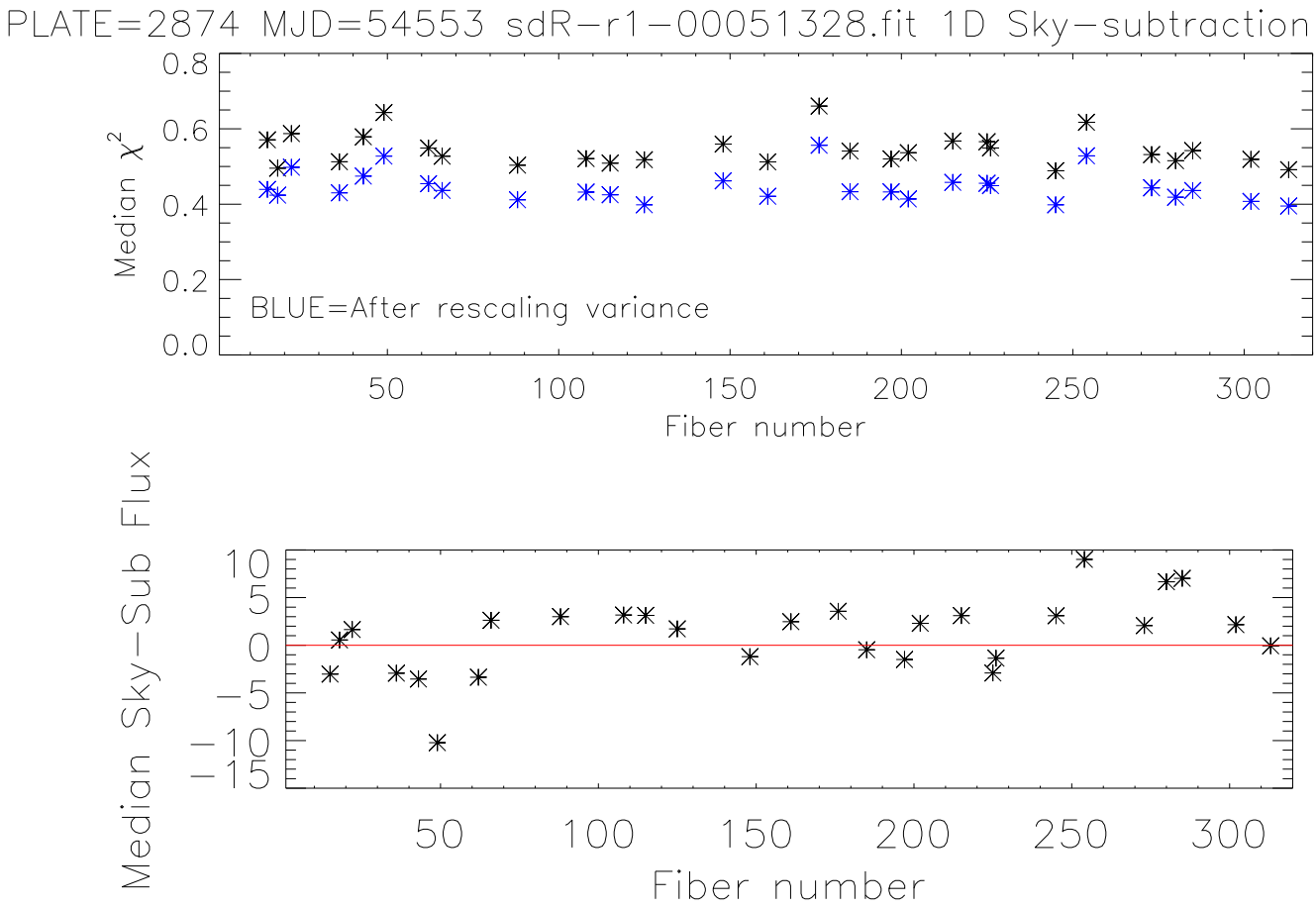

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

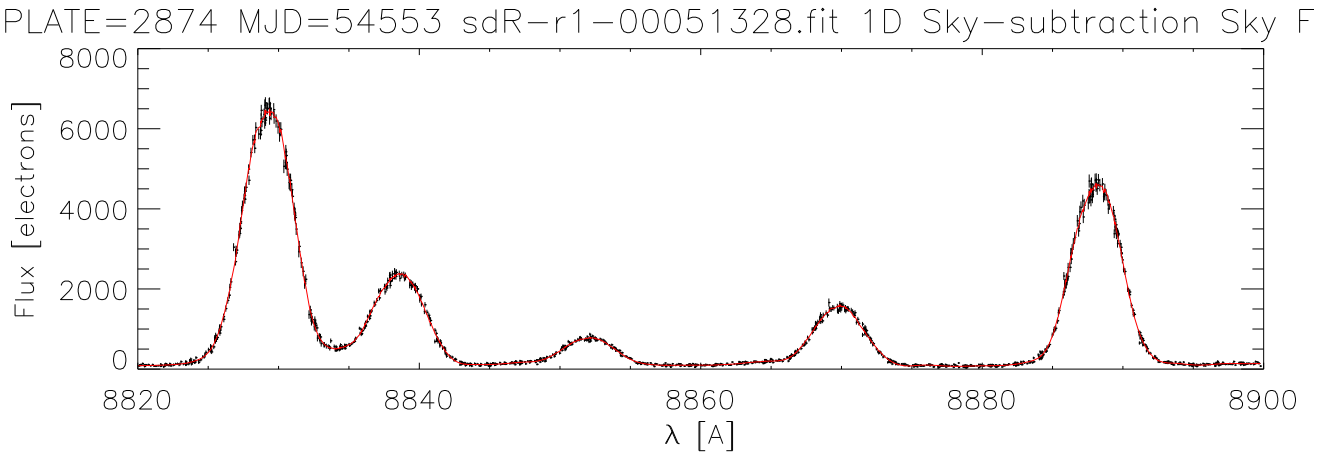

6300.3040
stdev 0.025
extrd −0.04
6363.7760
stdev 0.033
extrd −0.01
6553.6100
stdev 0.047
extrd 0.01
6923.2100
stdev 0.032
extrd 0.01
6949.0300
stdev 0.027
extrd 0.06
7571.7500
stdev 0.028
extrd 0.03
7794.1200
stdev 0.031
extrd −0.05
7821.5100
stdev 0.029
extrd −0.01
8399.1600
stdev 0.035
extrd 0.03
8430.1700
stdev 0.035
extrd 0.03
8885.8300
stdev 0.016
extrd 0.02
8919.6100
stdev 0.022
extrd 0.02
meas − pred, pix
mfhd1 28
mfhd2 28

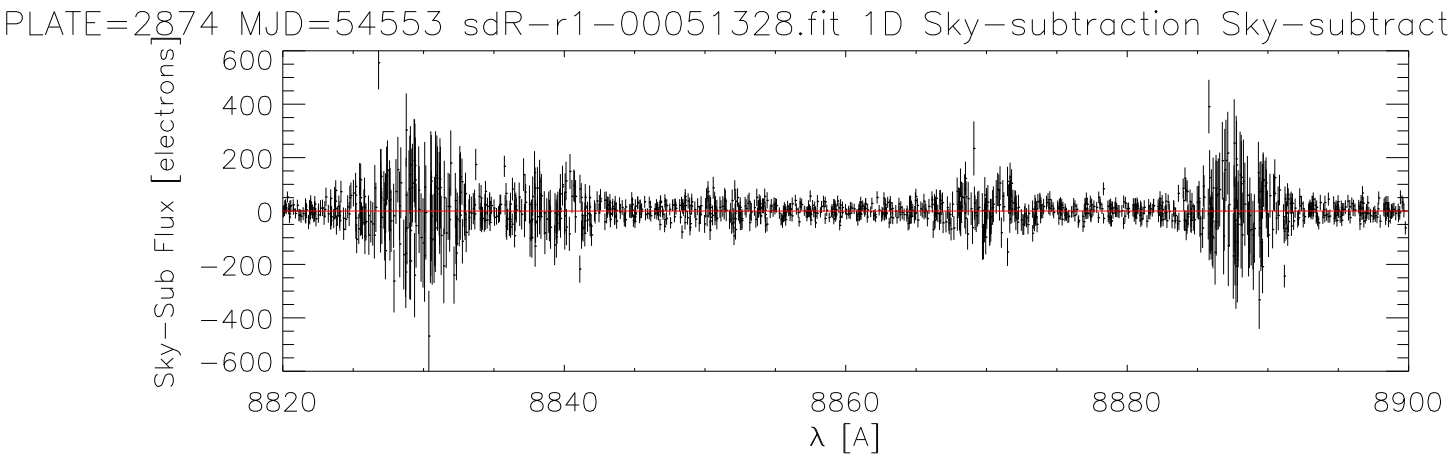

0.06
0.04
0.02
0.00
−0.02
−0.04
sky shift, pixels
5000
6000
7000
8000
9000
10000

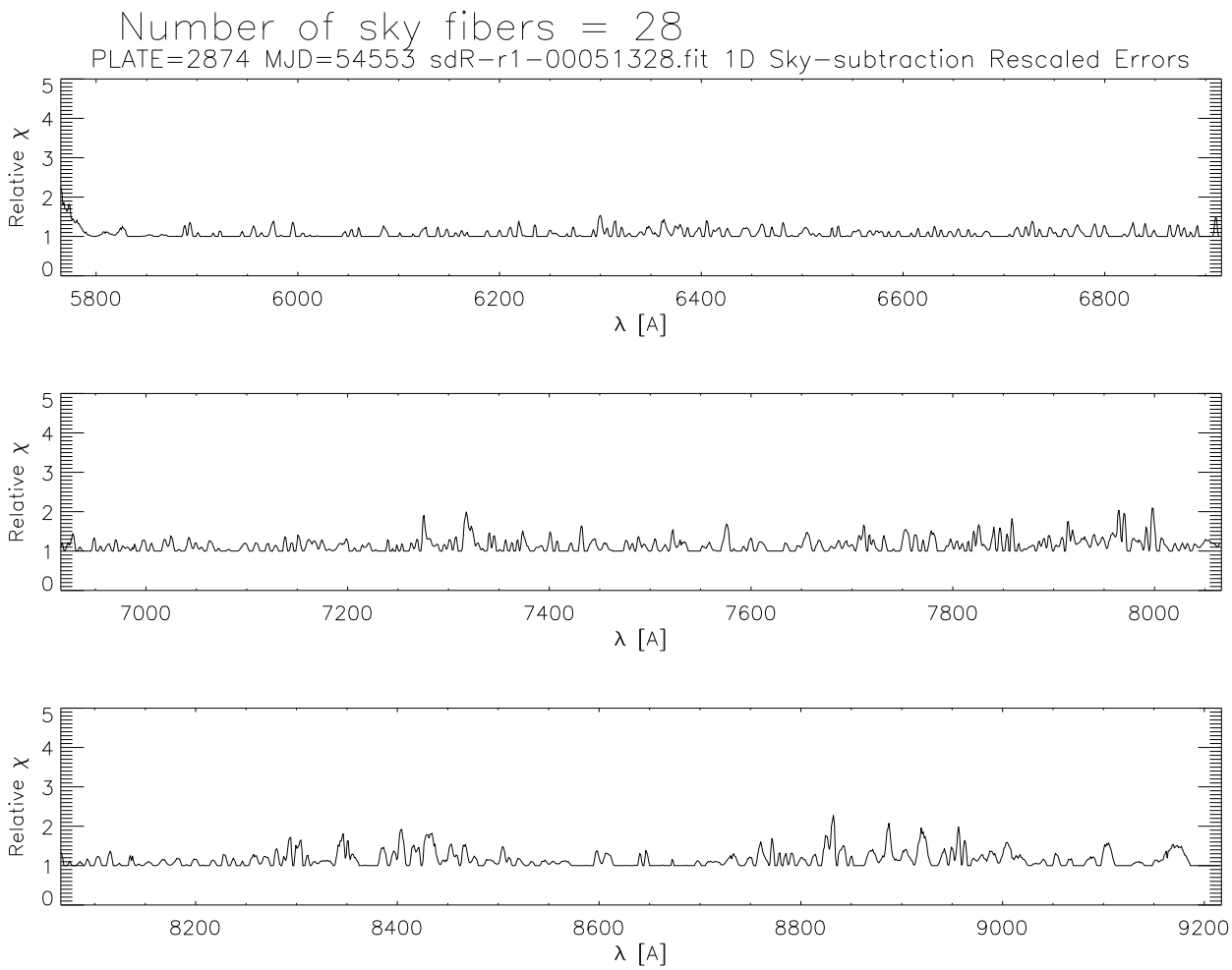
es= 0.0000

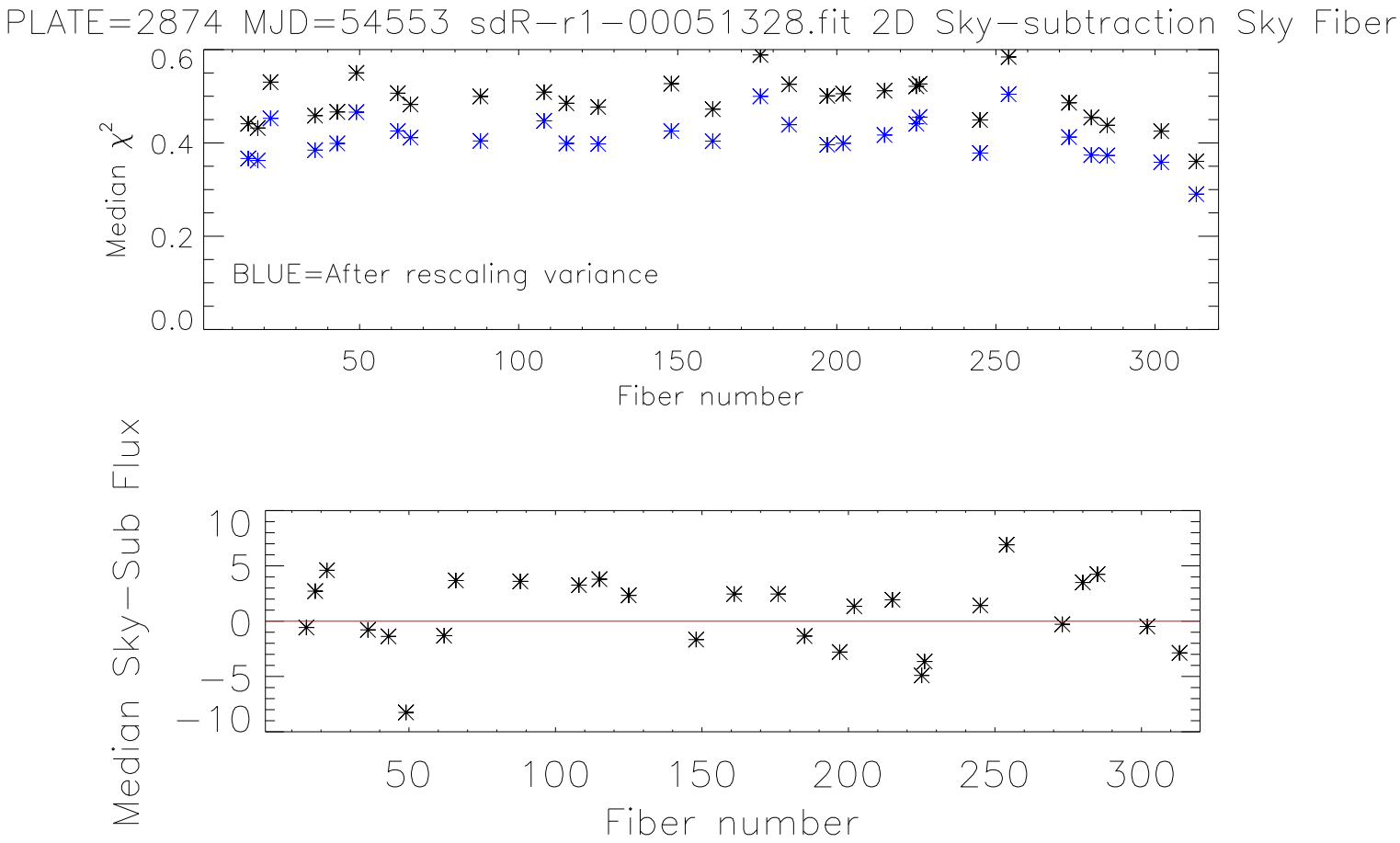

PLATE=2874 MJD=54553 Smooth superflat for sdR-r1-00051328.fit
2.0
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
6000
7000
8000
9000
Wavelength (Å)

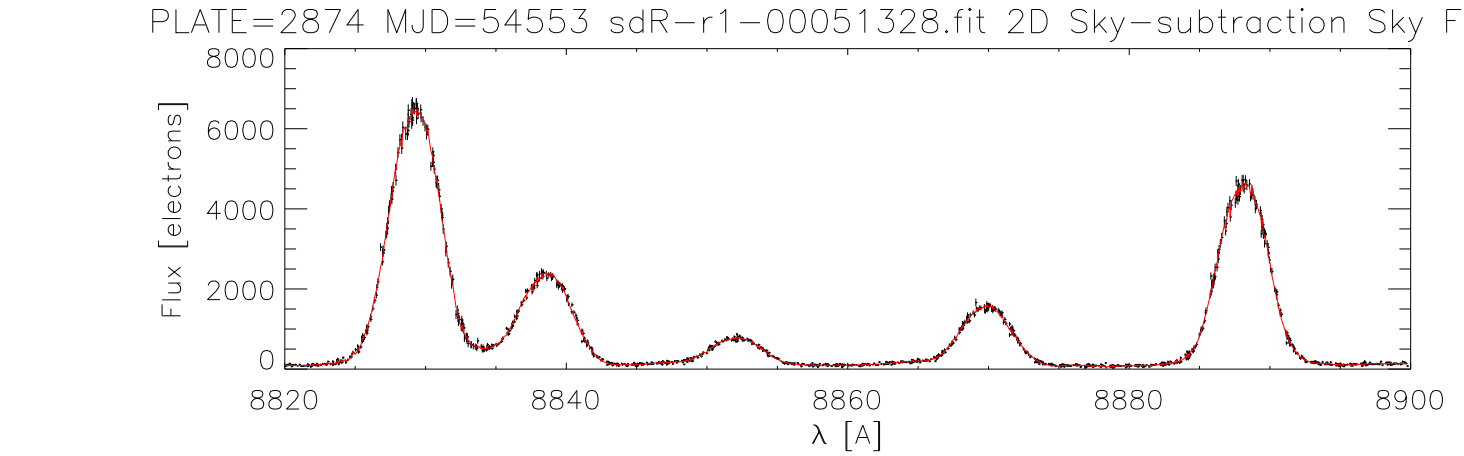

PLATE=2874 MJD=54553 sdR-r1-00051328.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

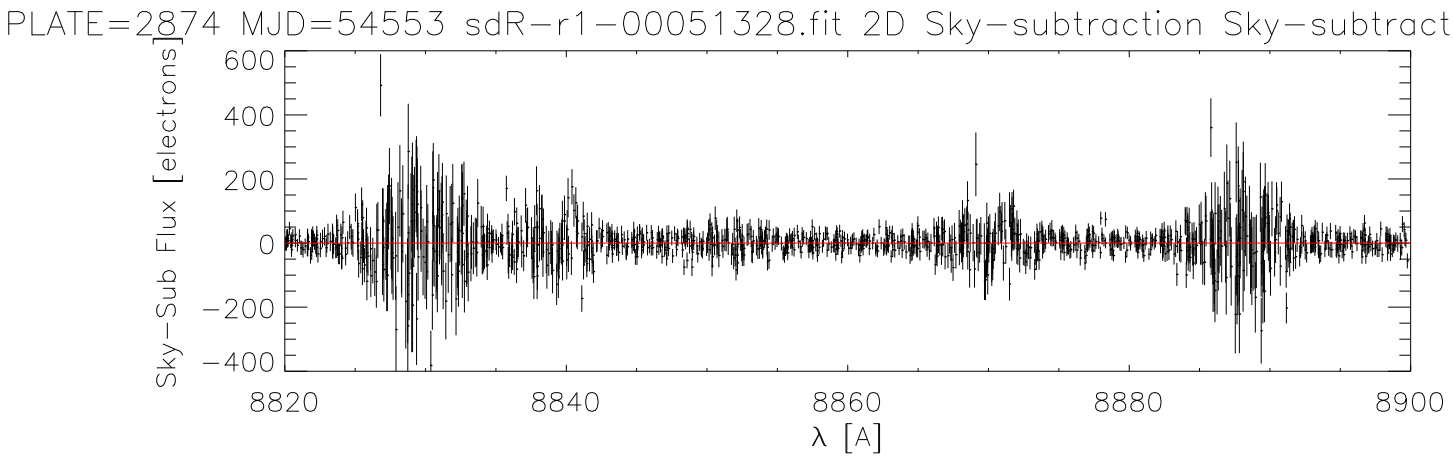

PLATE=2874 MJD=54553 sdR-r1-00051328.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

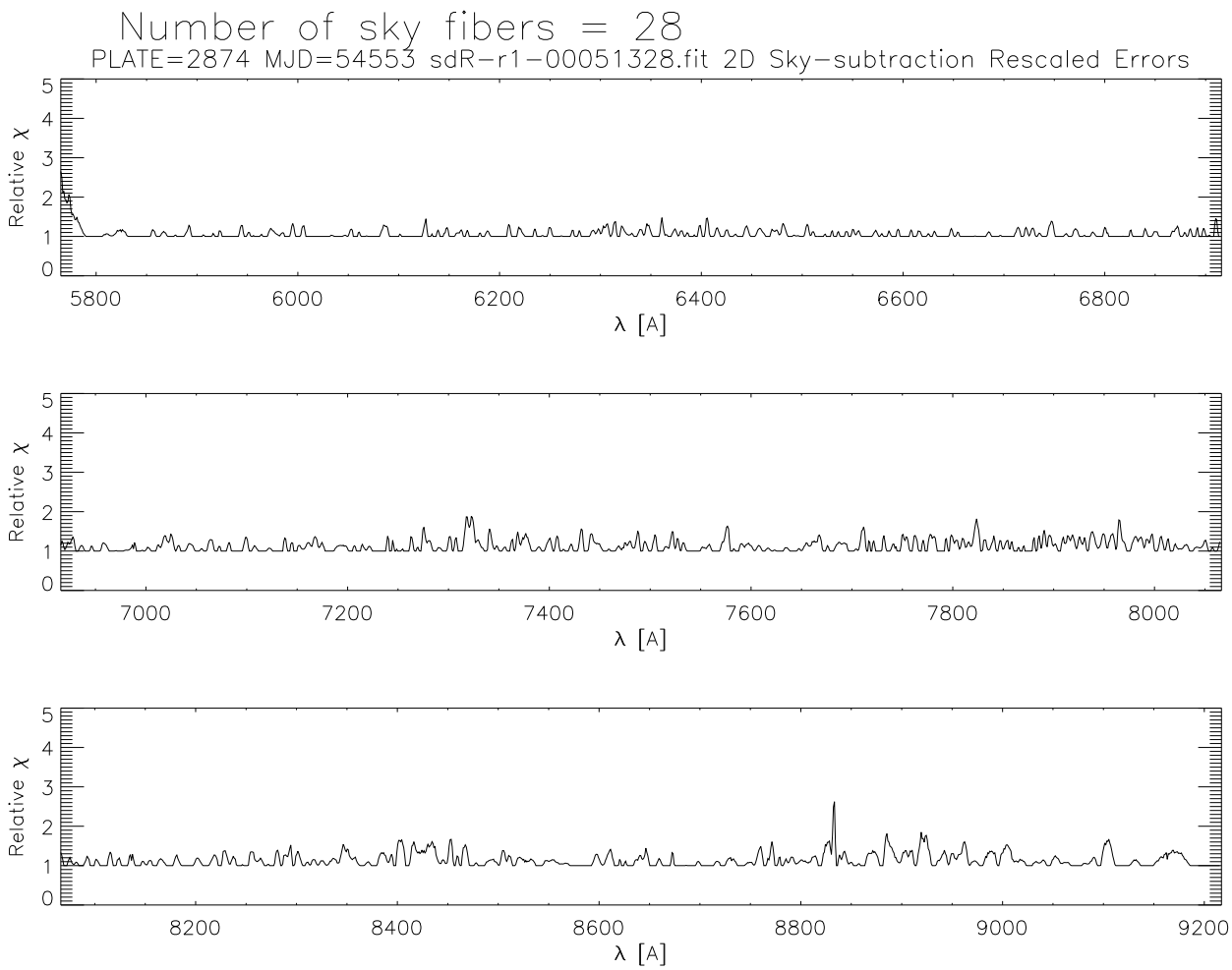

PLATE=2874 MJD=54553 sdR-r1-00051328.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
-600
8820
8840
8860
8880
8900
λ [A]

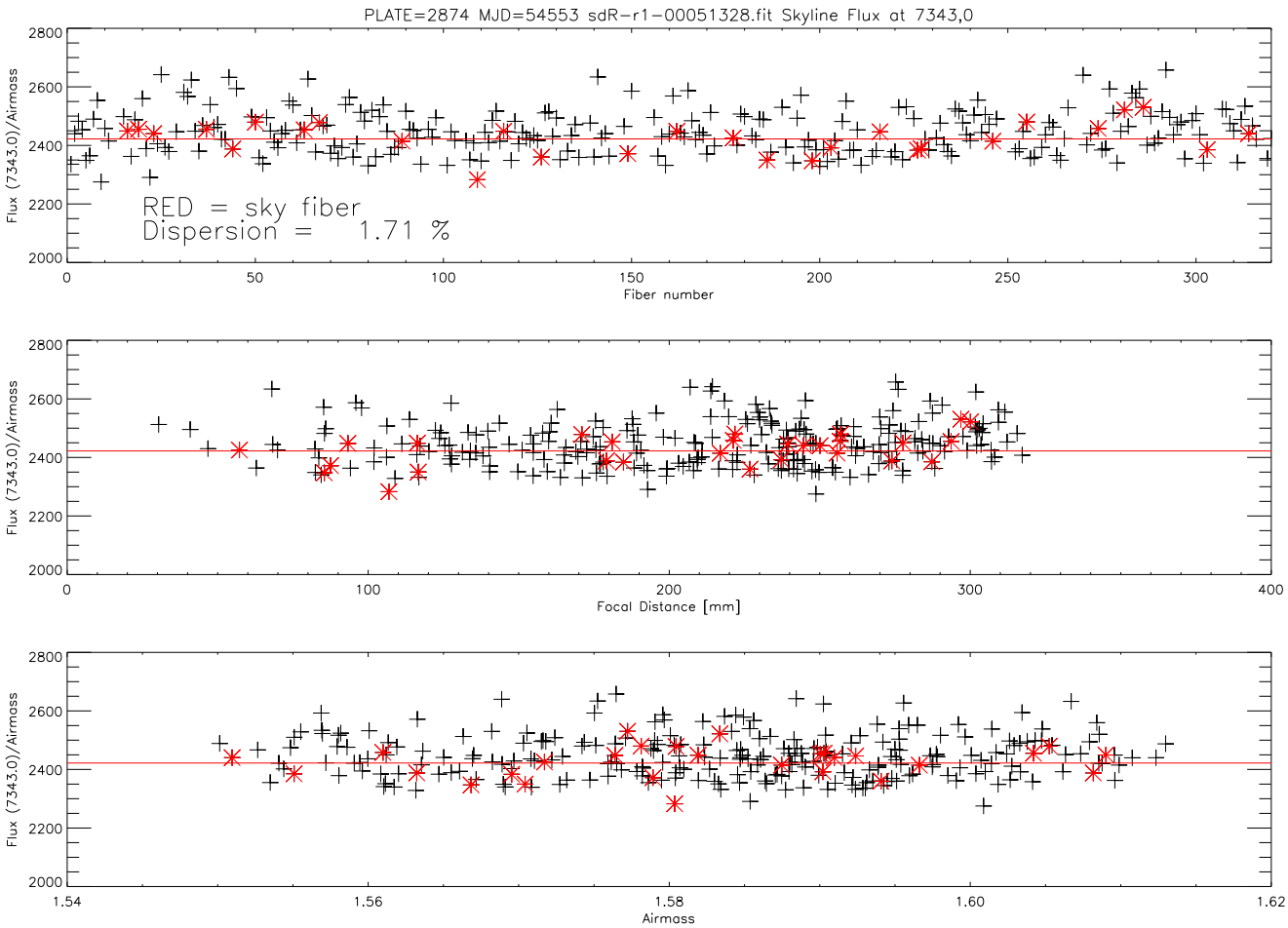

Number of sky fibers = 28
PLATE=2874 MJD=54553 sdR-r1-00051328.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

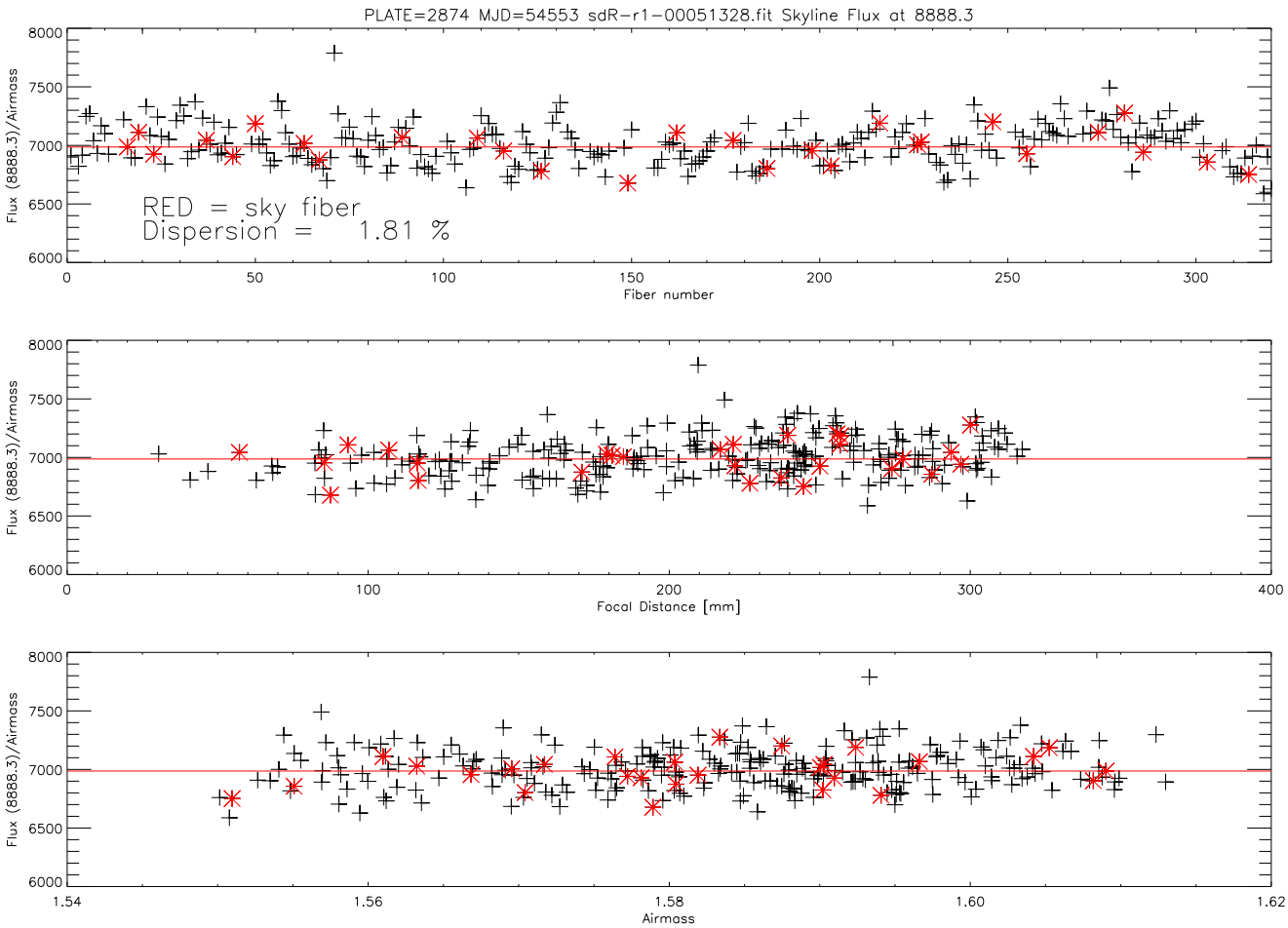

PLATE=2874 MJD=54553 sdR-r1-00051328.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

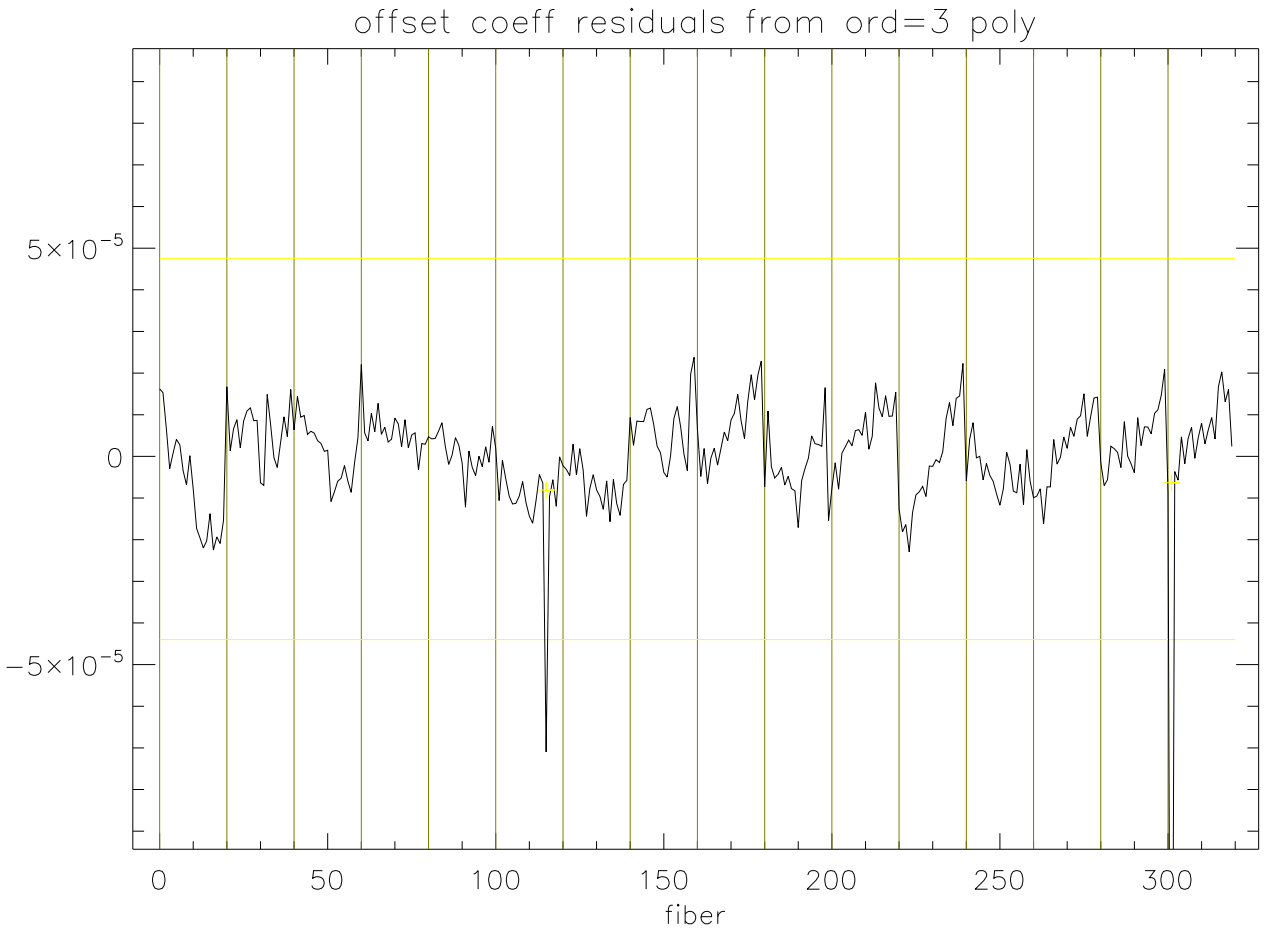

PLATE=2874 MJD=54553 sdR-r1-00051328.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

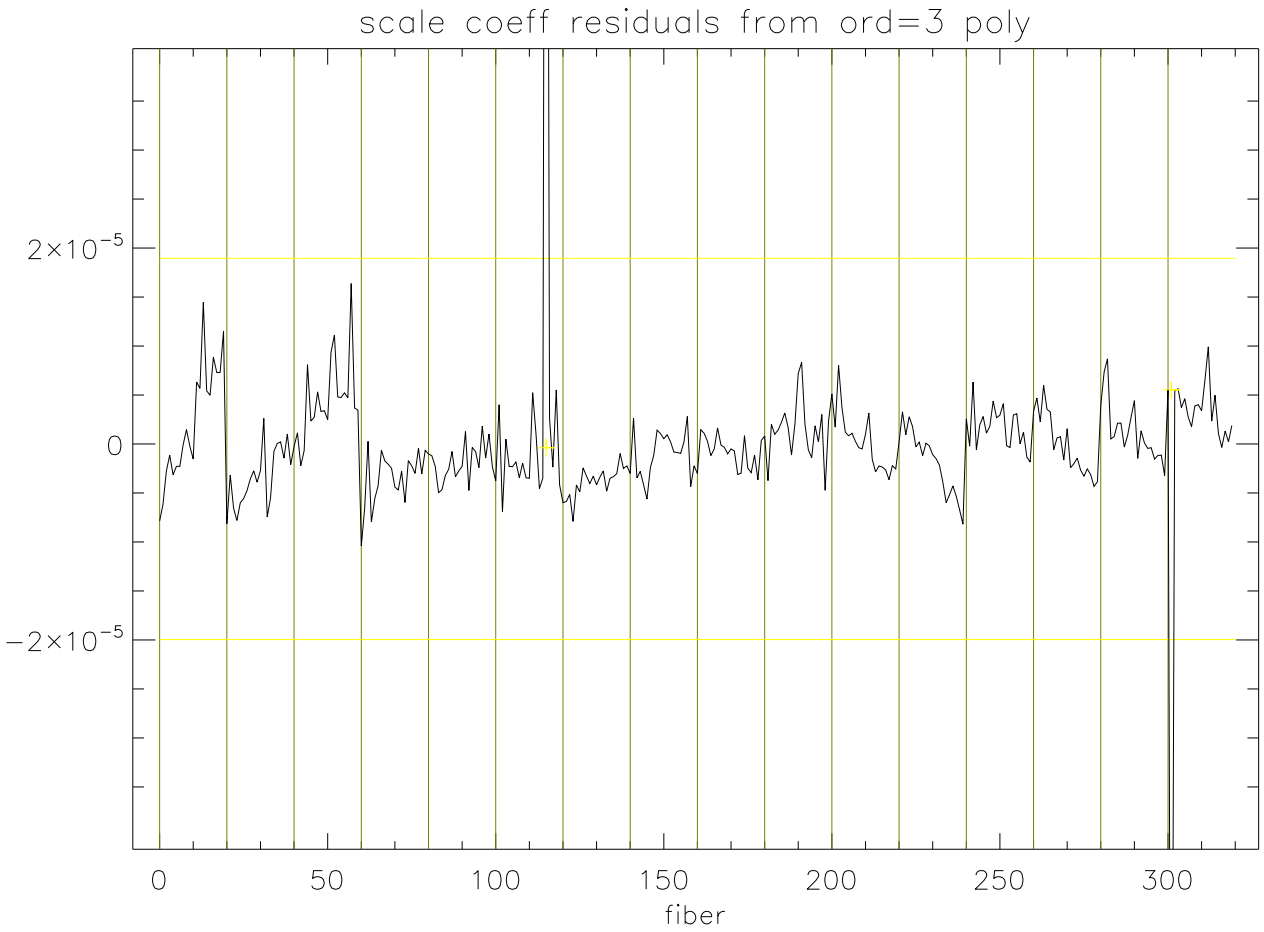

PLATE=2874 MJD=54553 sdR-r1-00051328.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
-200
-400
8820
8840
8860
8880
8900
λ [A]

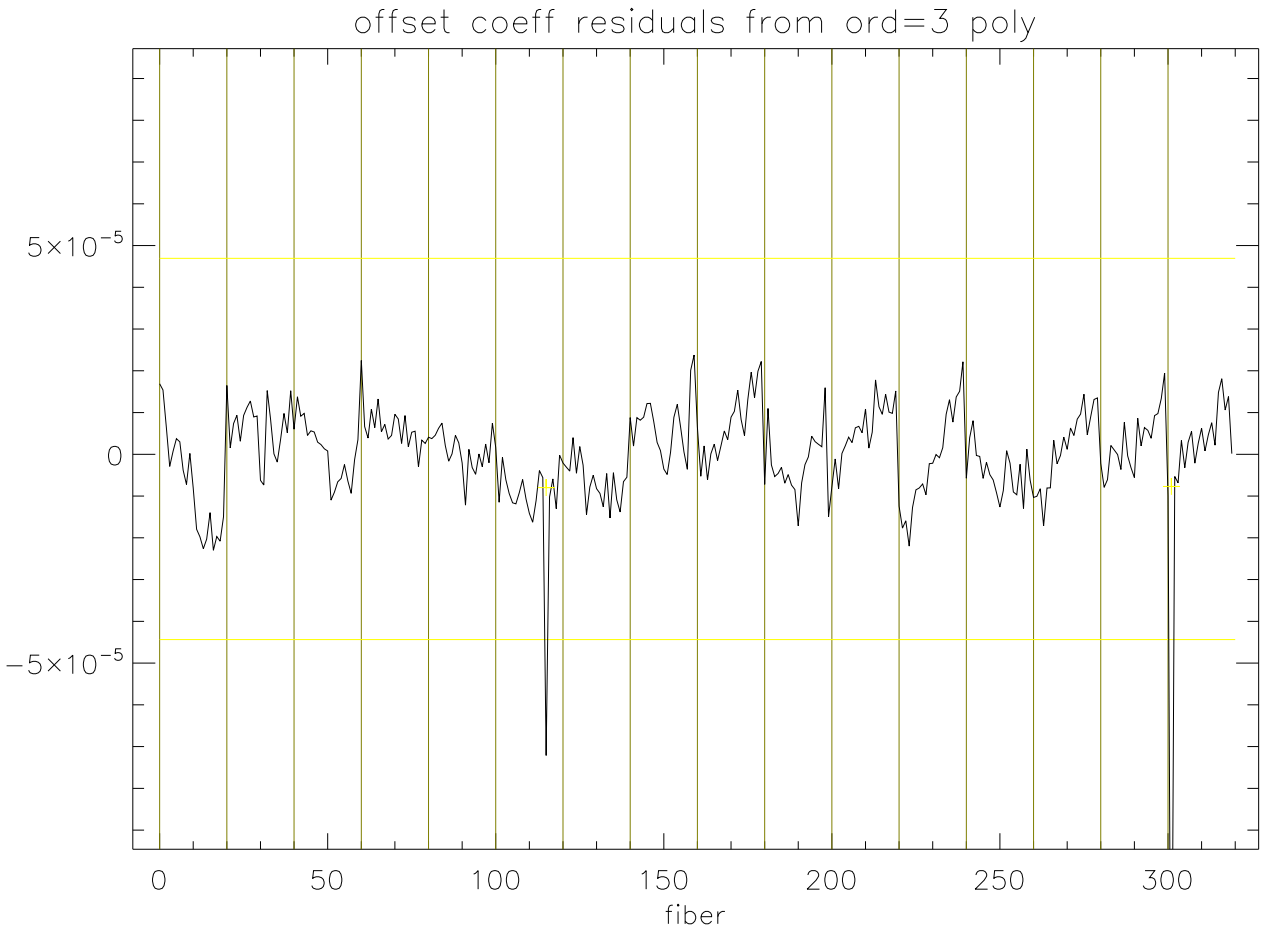

Number of sky fibers = 28
PLATE=2874 MJD=54553 sdR-r1-00051328.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

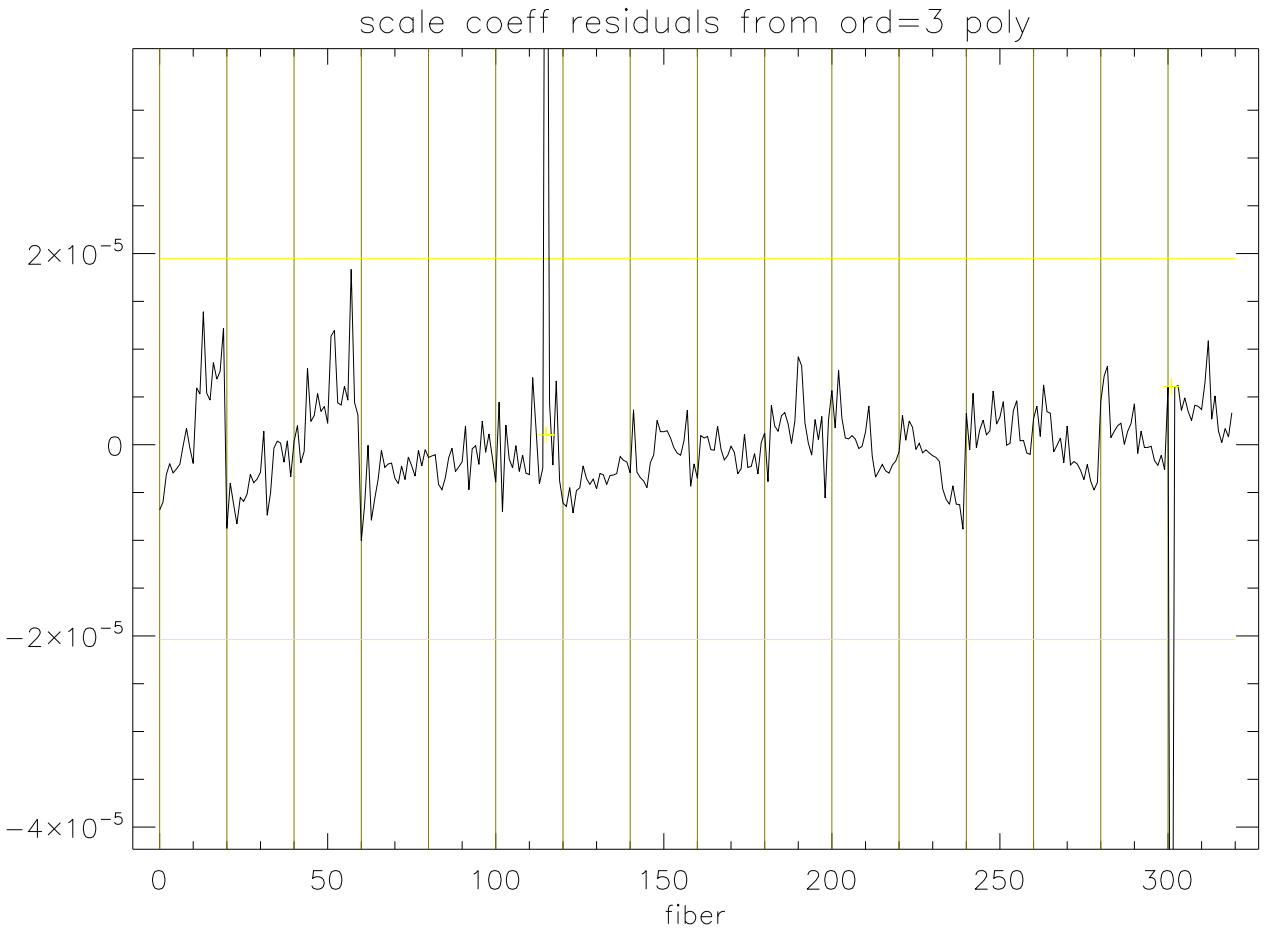

PLATE=2874 MJD=54553 sdR-r1-00051328.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 1.71 %
Fiber number
Focal Distance [mm]
Airmass

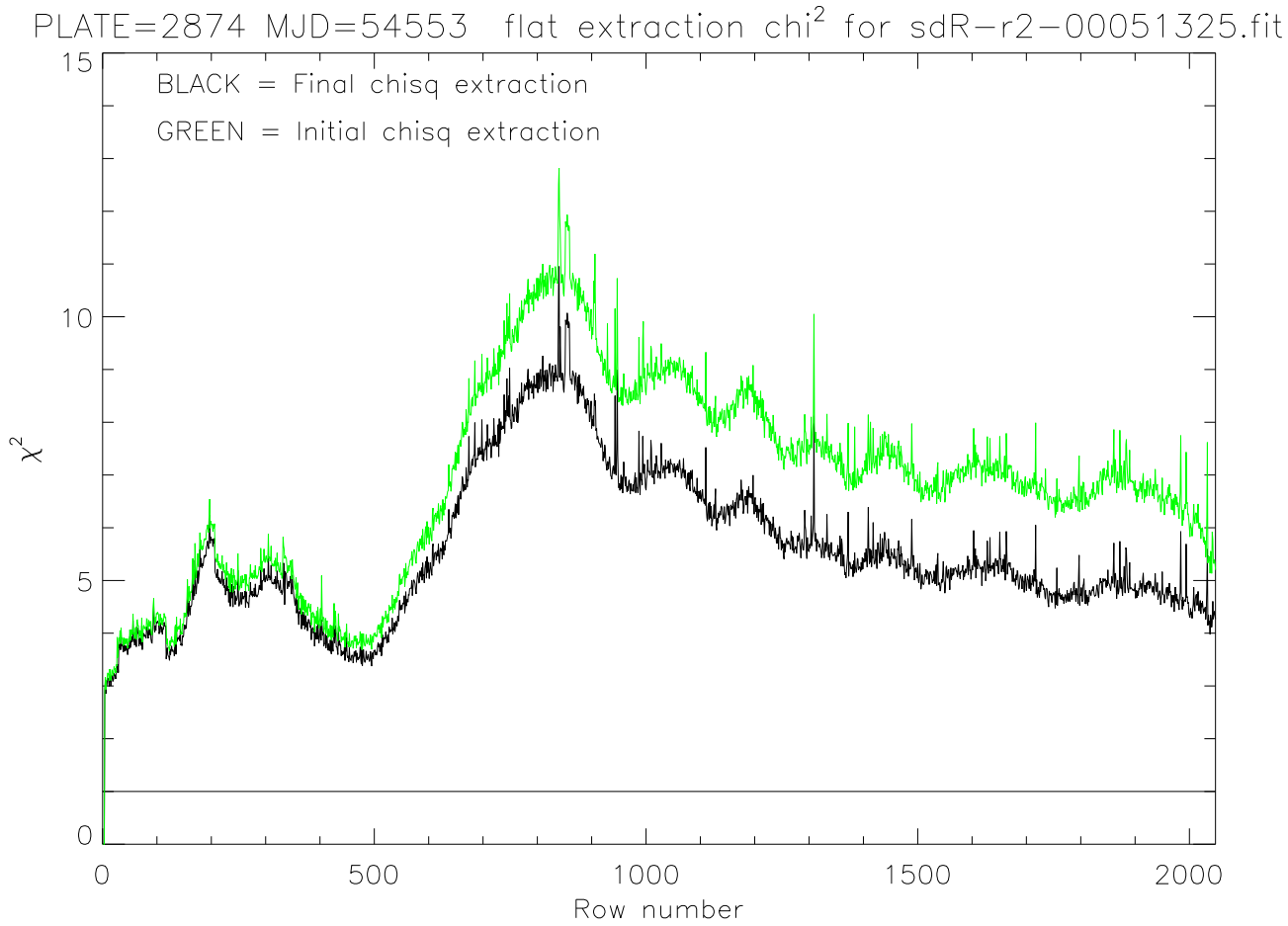

PLATE=2874 MJD=54553 sdR-r1-00051328.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.81 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

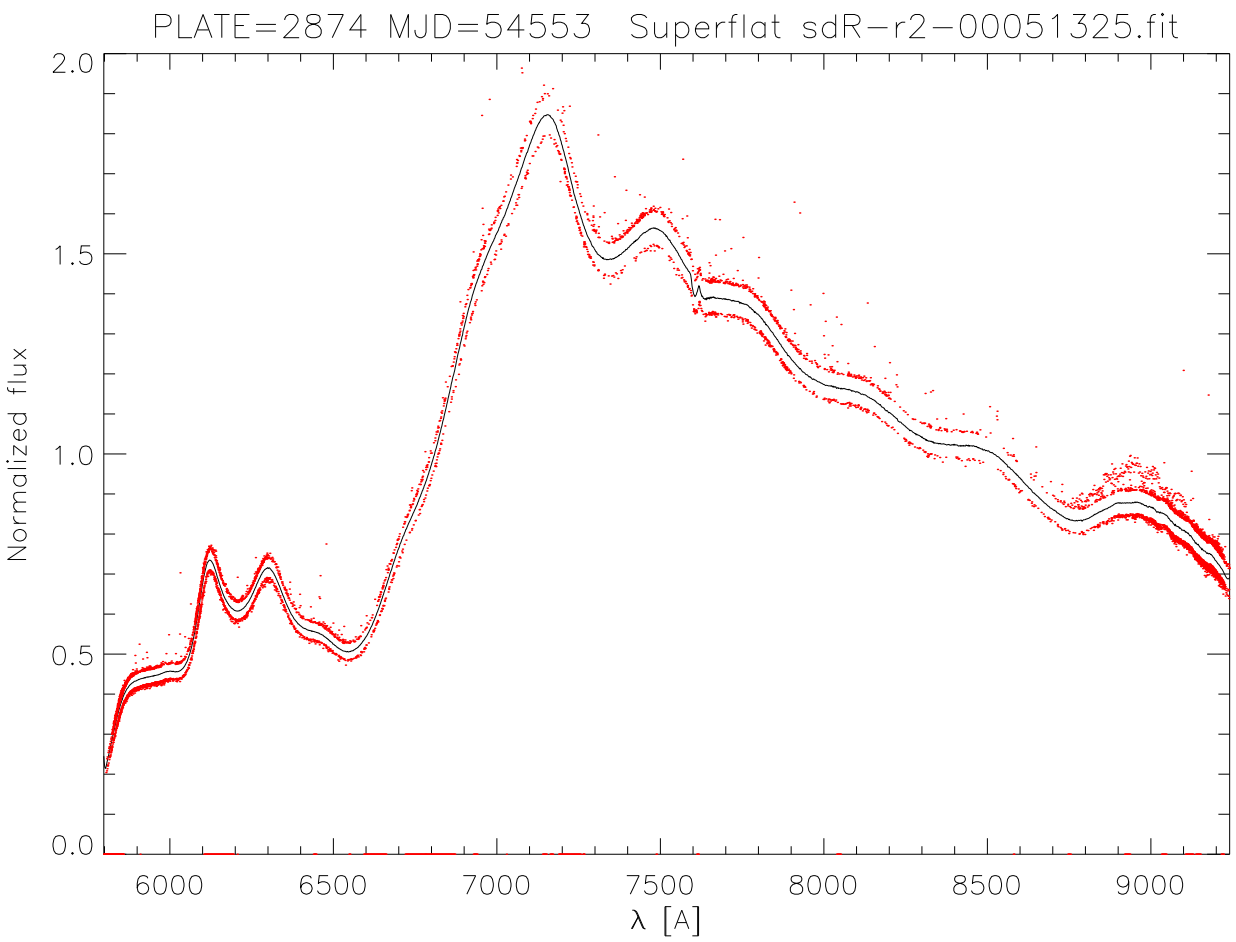

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
0
50
100
150
200
250
300
fiber

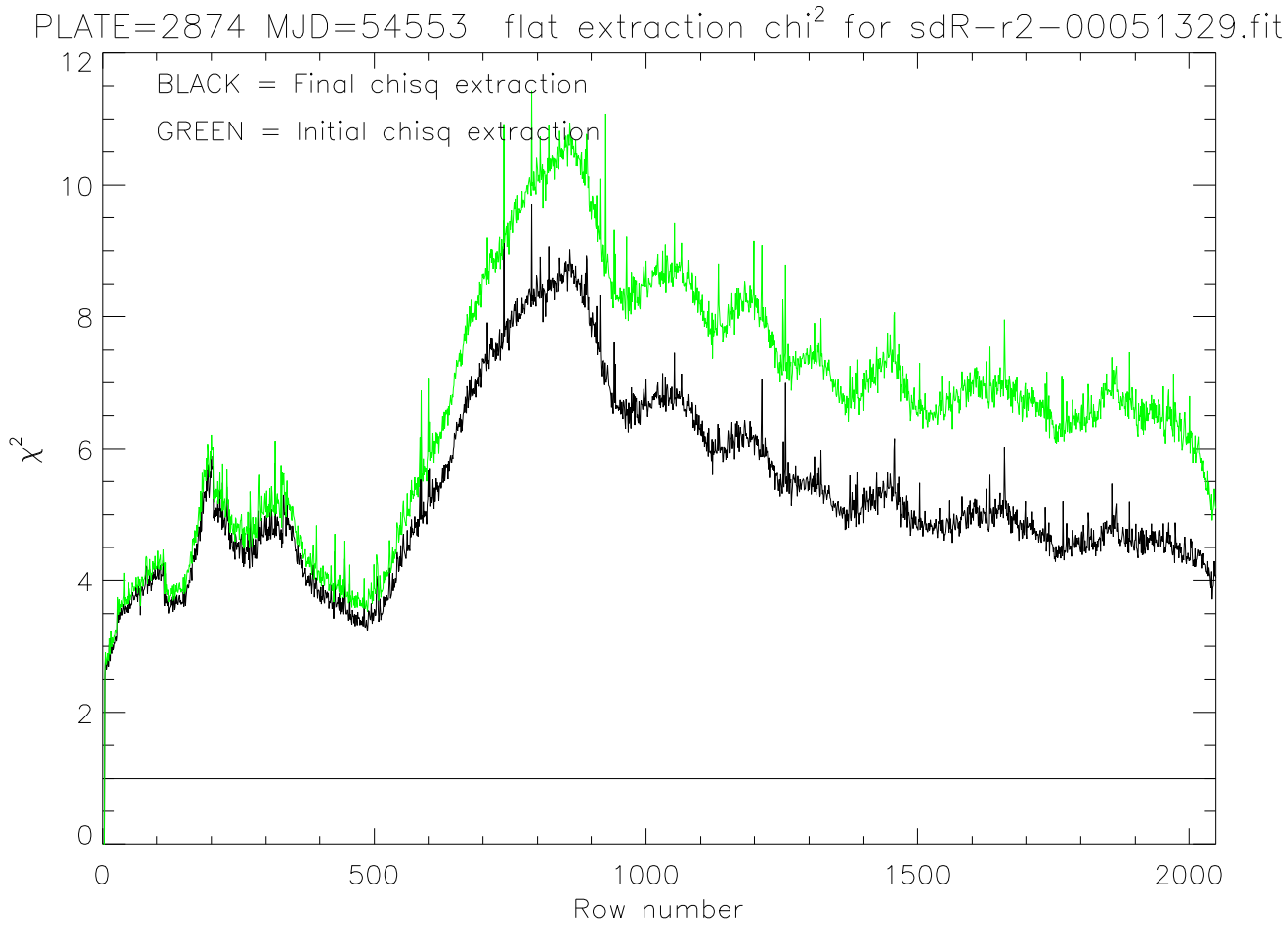

scale coeff residuals from ord=3 poly
2×10⁻⁵
0
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

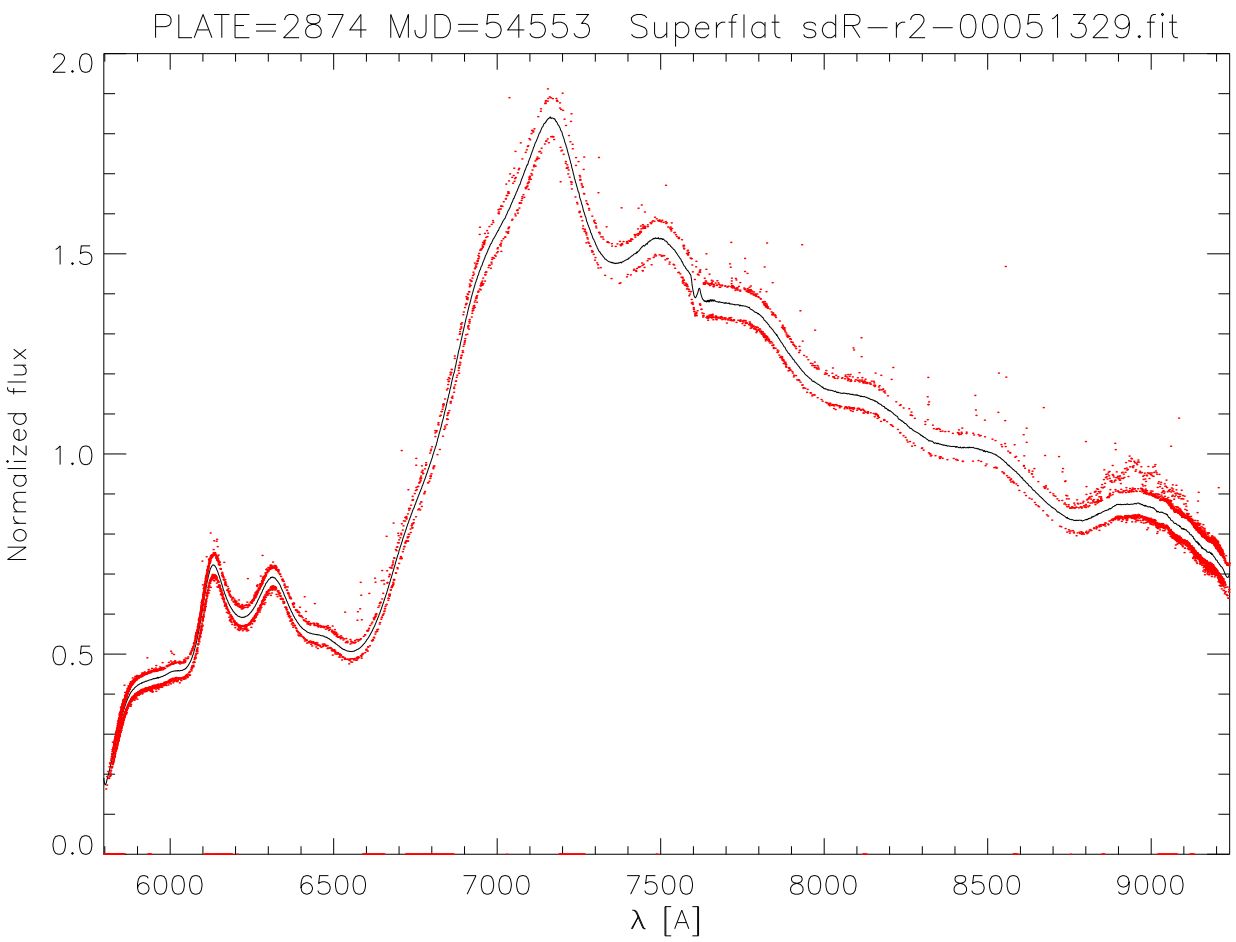

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
0
50
100
150
200
250
300
fiber

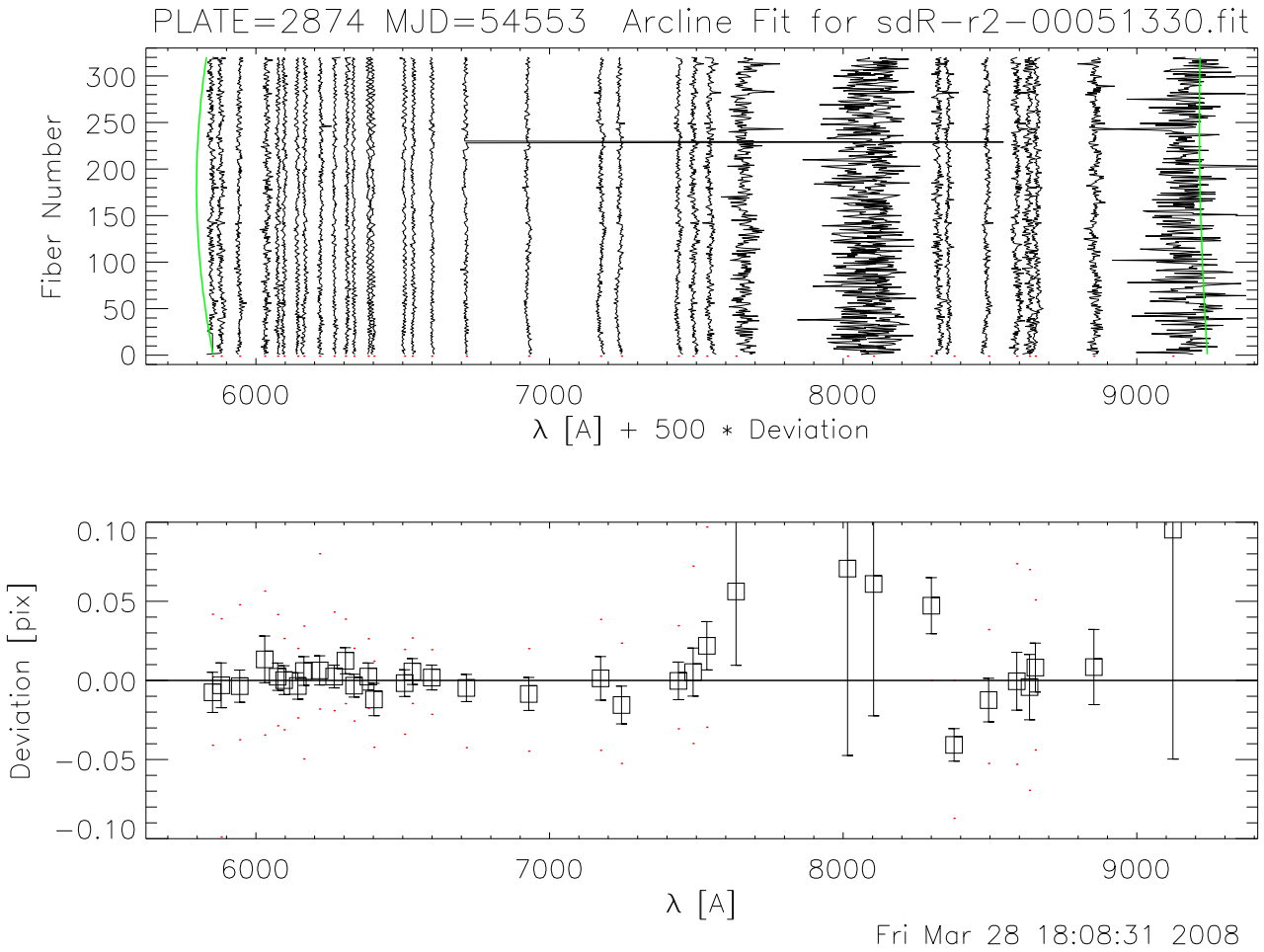

scale coeff residuals from ord=3 poly
2×10^-5
0
−2×10^-5
−4×10^-5
0
50
100
150
200
250
300
fiber

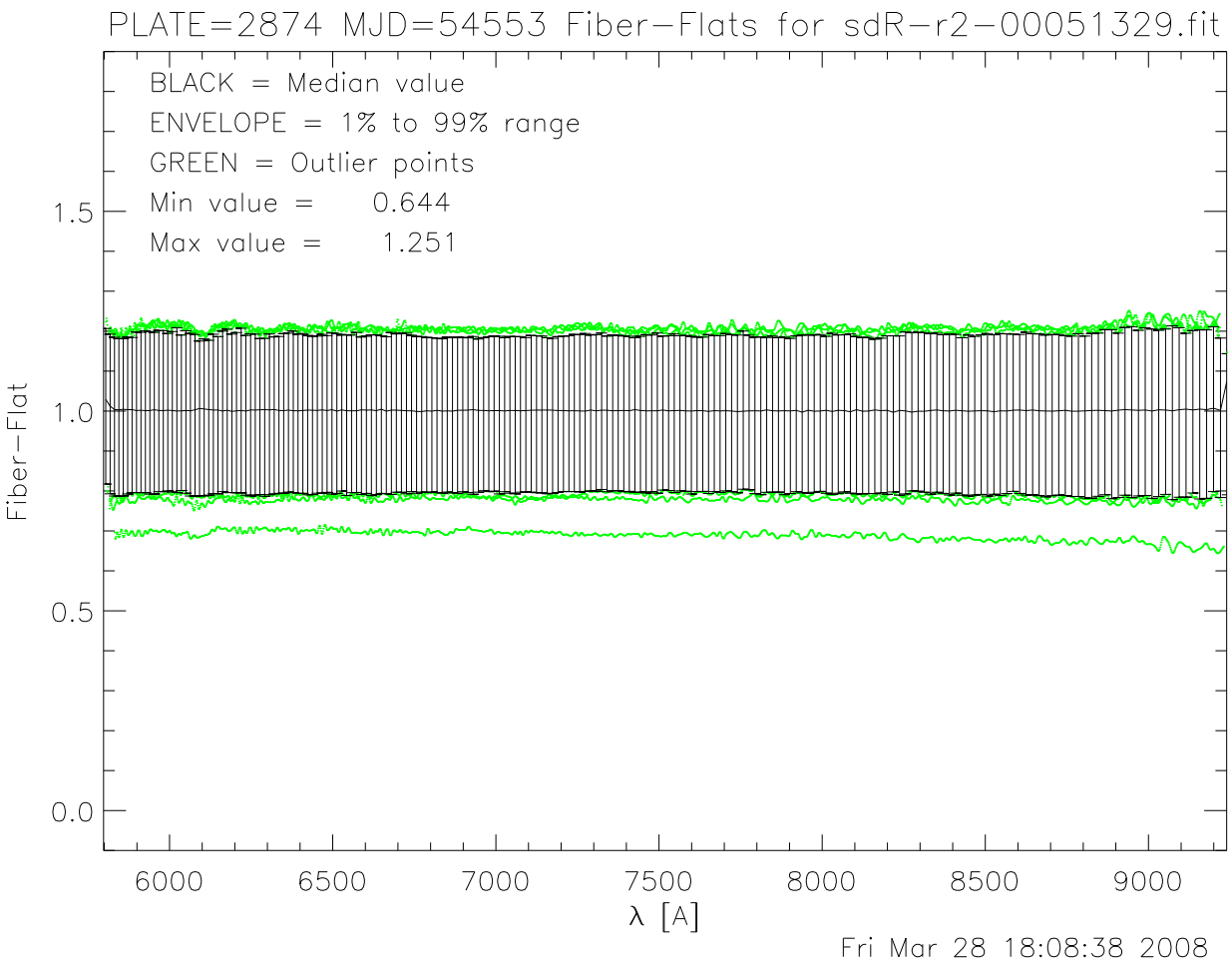

PLATE=2874 MJD=54553 flat extraction chi^2 for sdR-r2-00051325.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

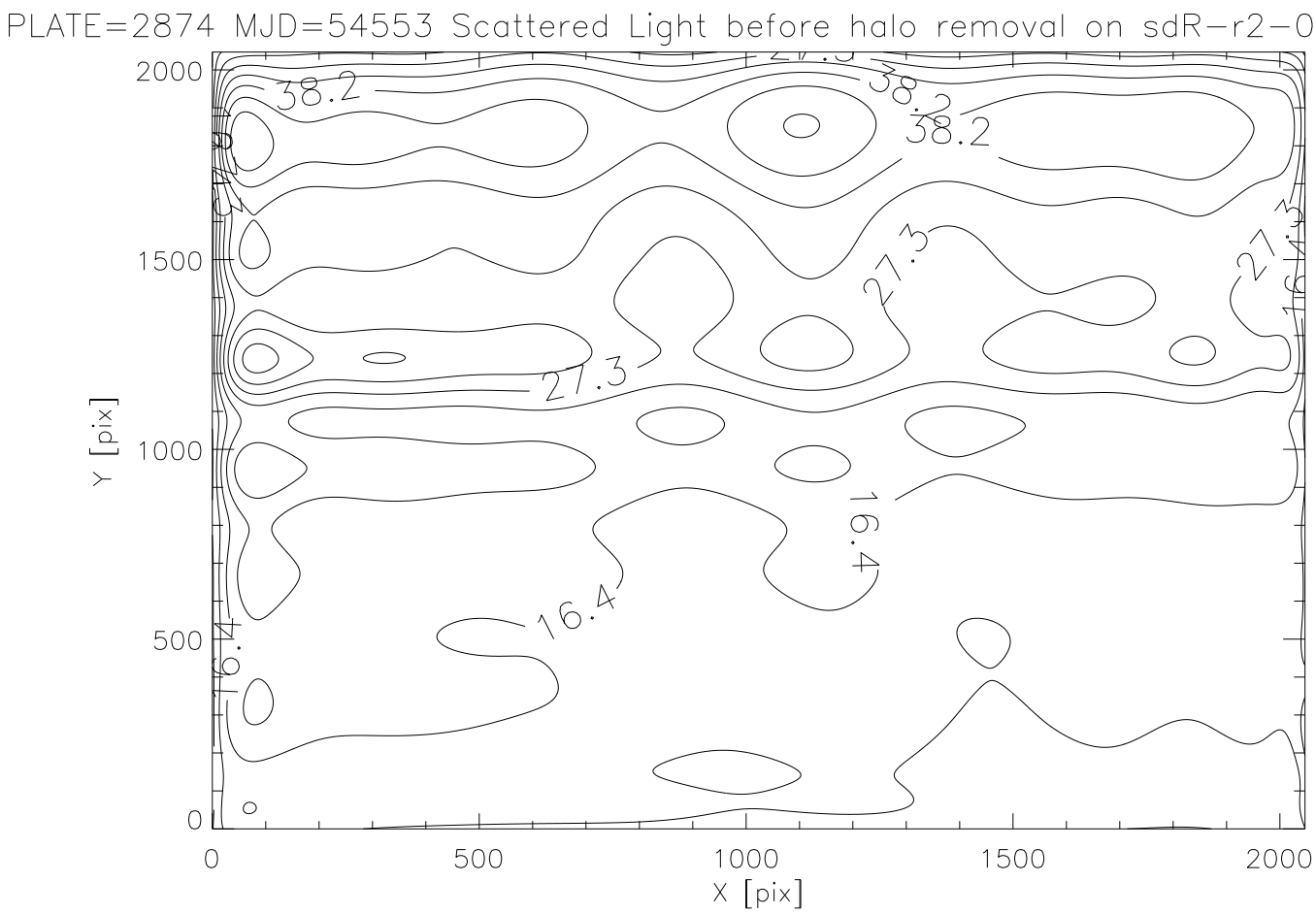

PLATE=2874 MJD=54553 Superflat sdR-r2-00051325.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

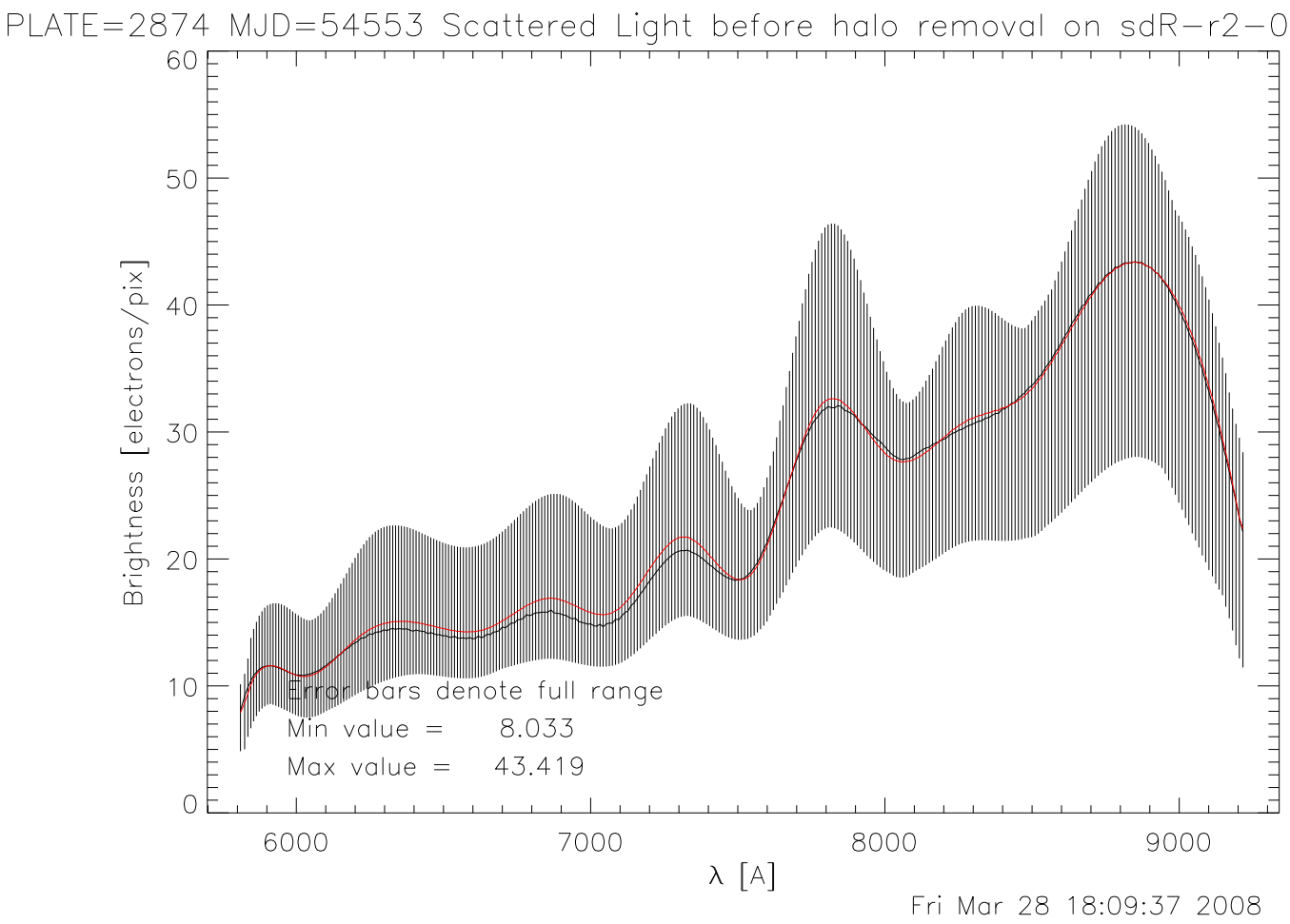

PLATE=2874 MJD=54553 flat extraction chi^2 for sdR−r2−00051329.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
0
500
1000
1500
2000

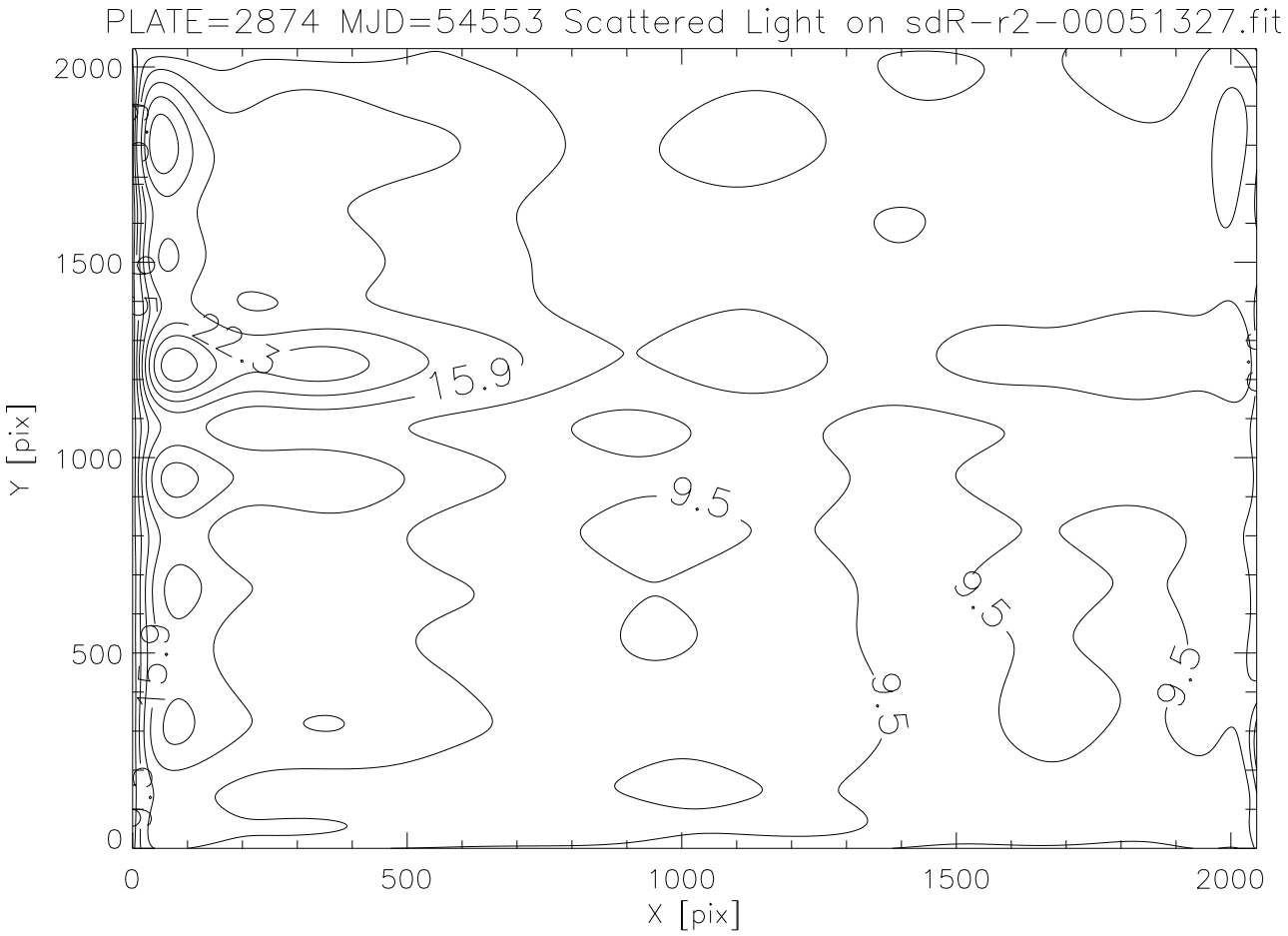

PLATE=2874 MJD=54553 Superflat sdR-r2-00051329.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

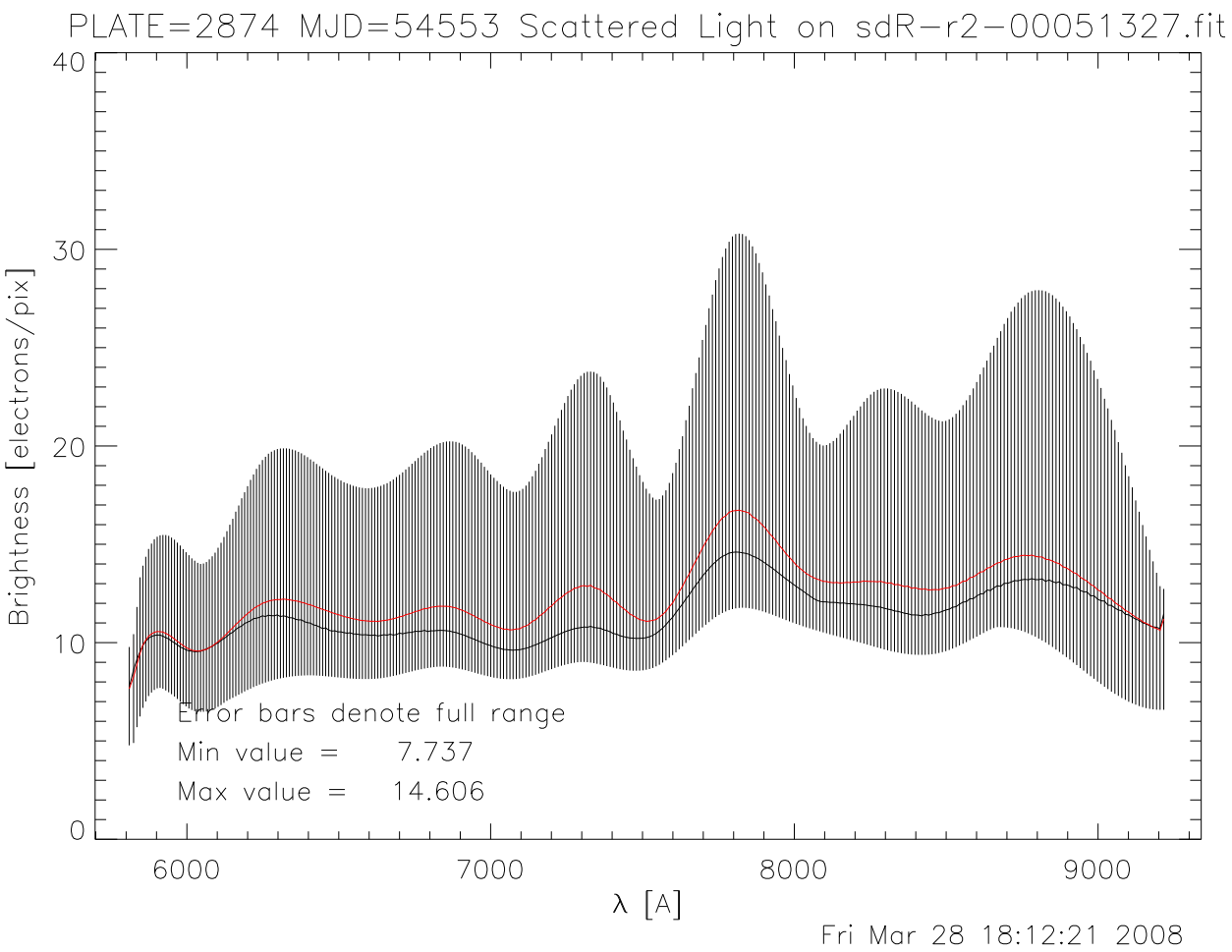

PLATE=2874 MJD=54553 Arcline Fit for sdR-r2-00051330.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Fri Mar 28 18:08:31 2008

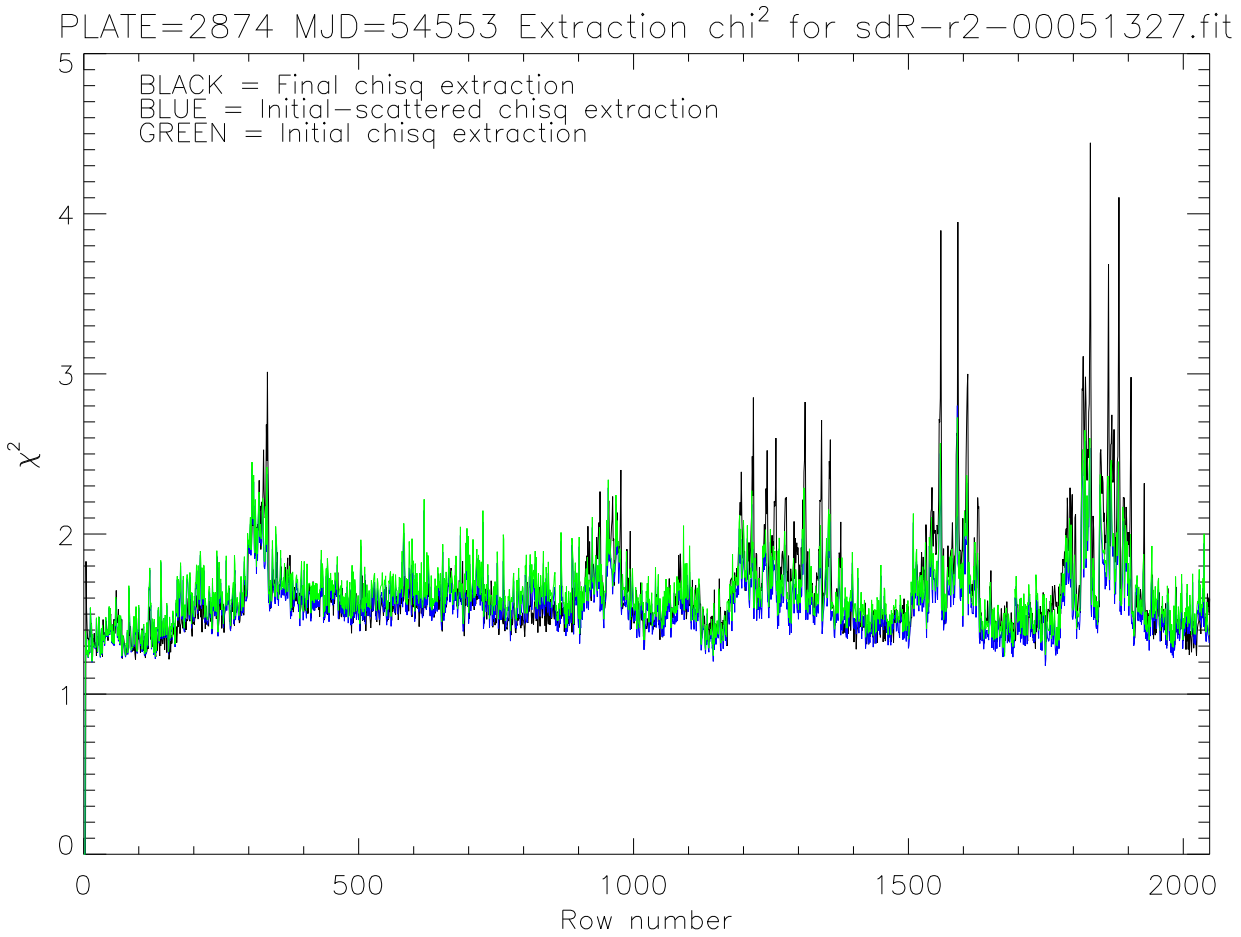

PLATE=2874 MJD=54553 Fiber−Flats for sdR−r2−00051329.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.644
Max value = 1.251
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 28 18:08:38 2008

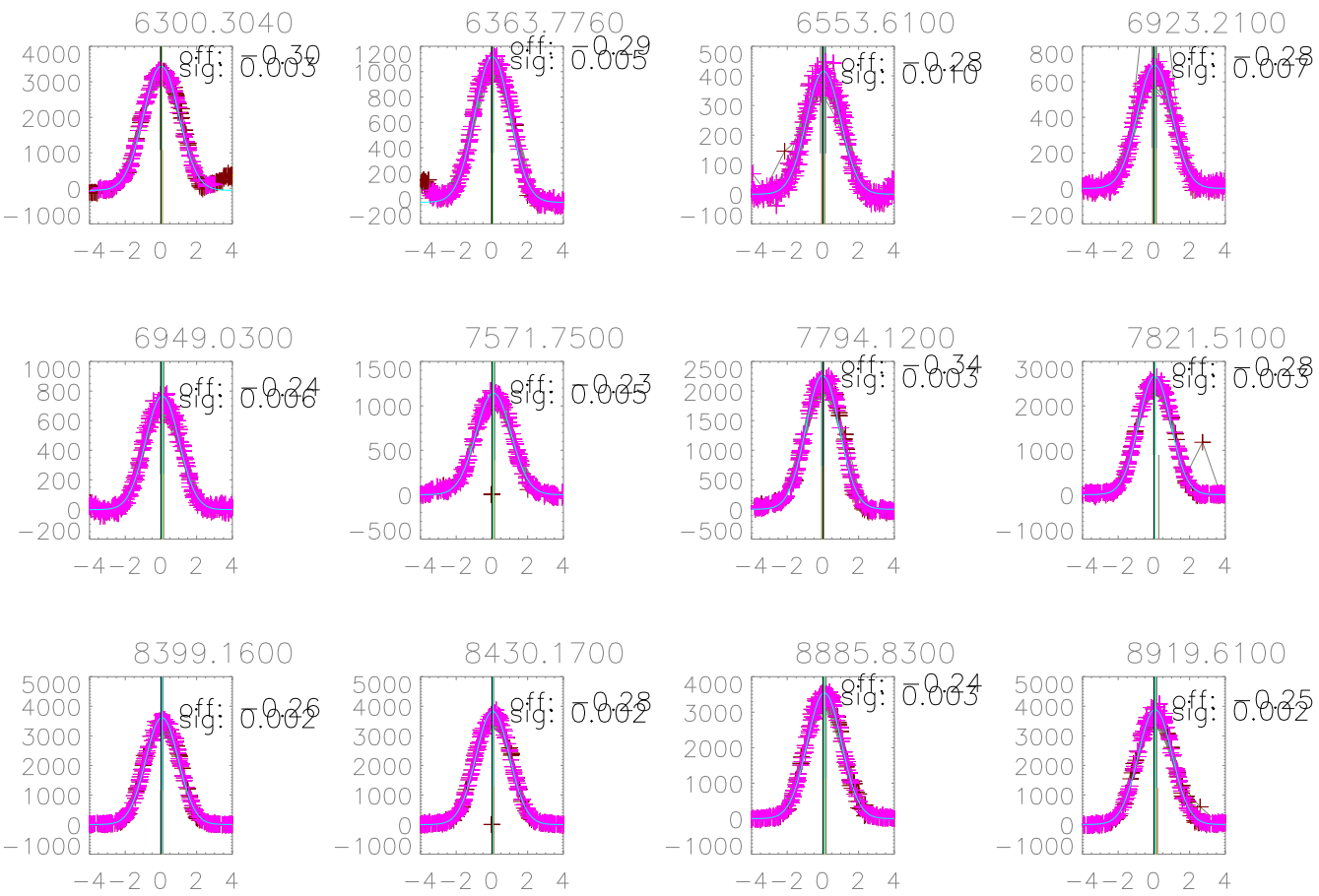

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR-r2-00051327.fi
38.2
38.2
38.2
27.3
27.3
27.3
16.4
16.4
16.4
16.4
0
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

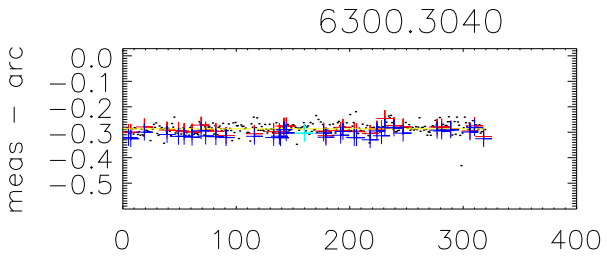

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR-r2-00051327.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.033
Max value = 43.419
Fri Mar 28 18:09:37 2008

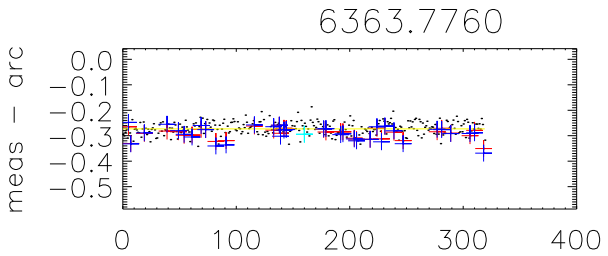

PLATE=2874 MJD=54553 Scattered Light on sdR-r2-00051327.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
22.3
15.9
9.5
9.5
9.5
9.5
9.5

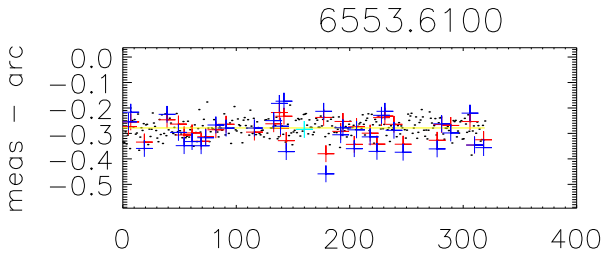

PLATE=2874 MJD=54553 Scattered Light on sdR-r2-00051327.fit
Brightness [electrons/pix]
40
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 7.737
Max value = 14.606
Fri Mar 28 18:12:21 2008

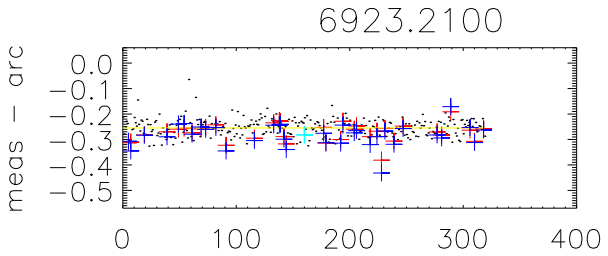

PLATE=2874 MJD=54553 Extraction chi^2 for sdR−r2−00051327.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

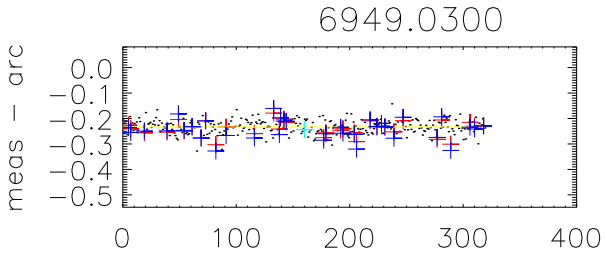

6300.3040
off: −0.30
sig: 0.003
6363.7760
off: −0.29
sig: 0.005
6553.6100
off: −0.28
sig: 0.010
6923.2100
off: −0.28
sig: 0.007
6949.0300
off: −0.24
sig: 0.006
7571.7500
off: −0.23
sig: 0.005
7794.1200
off: −0.34
sig: 0.003
7821.5100
off: −0.28
sig: 0.003
8399.1600
off: −0.26
sig: 0.002
8430.1700
off: −0.28
sig: 0.002
8885.8300
off: −0.24
sig: 0.003
8919.6100
off: −0.25
sig: 0.002

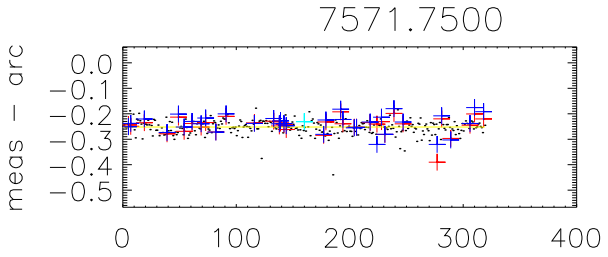

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

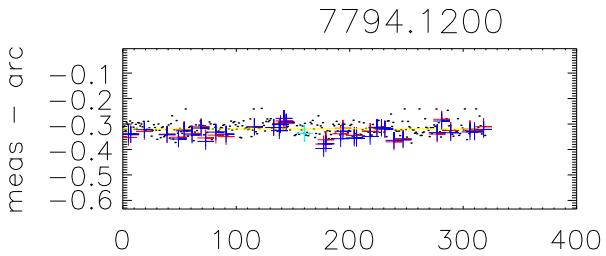

6363.7760
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

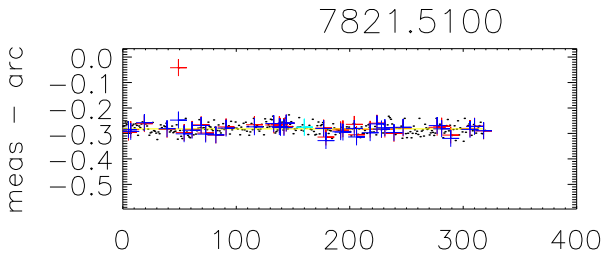

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

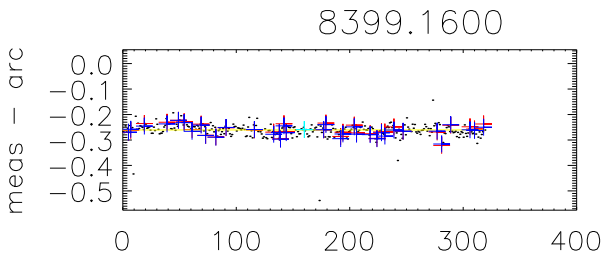

6923.2100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

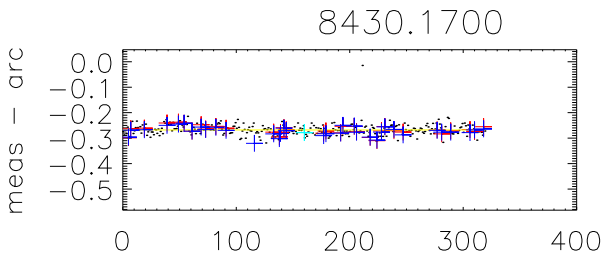

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

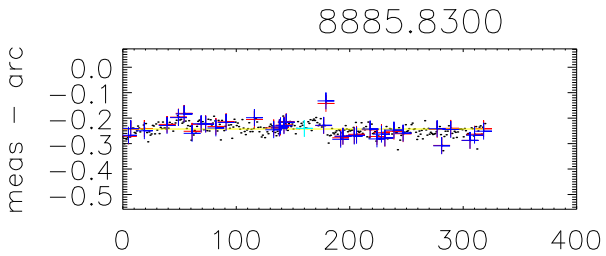

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

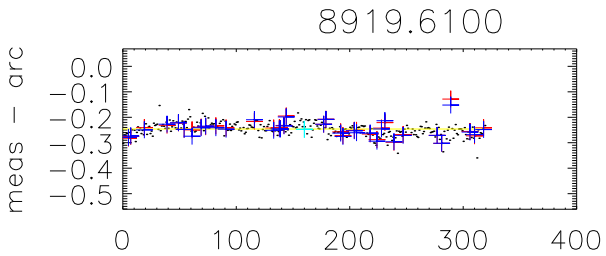

7794.1200
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

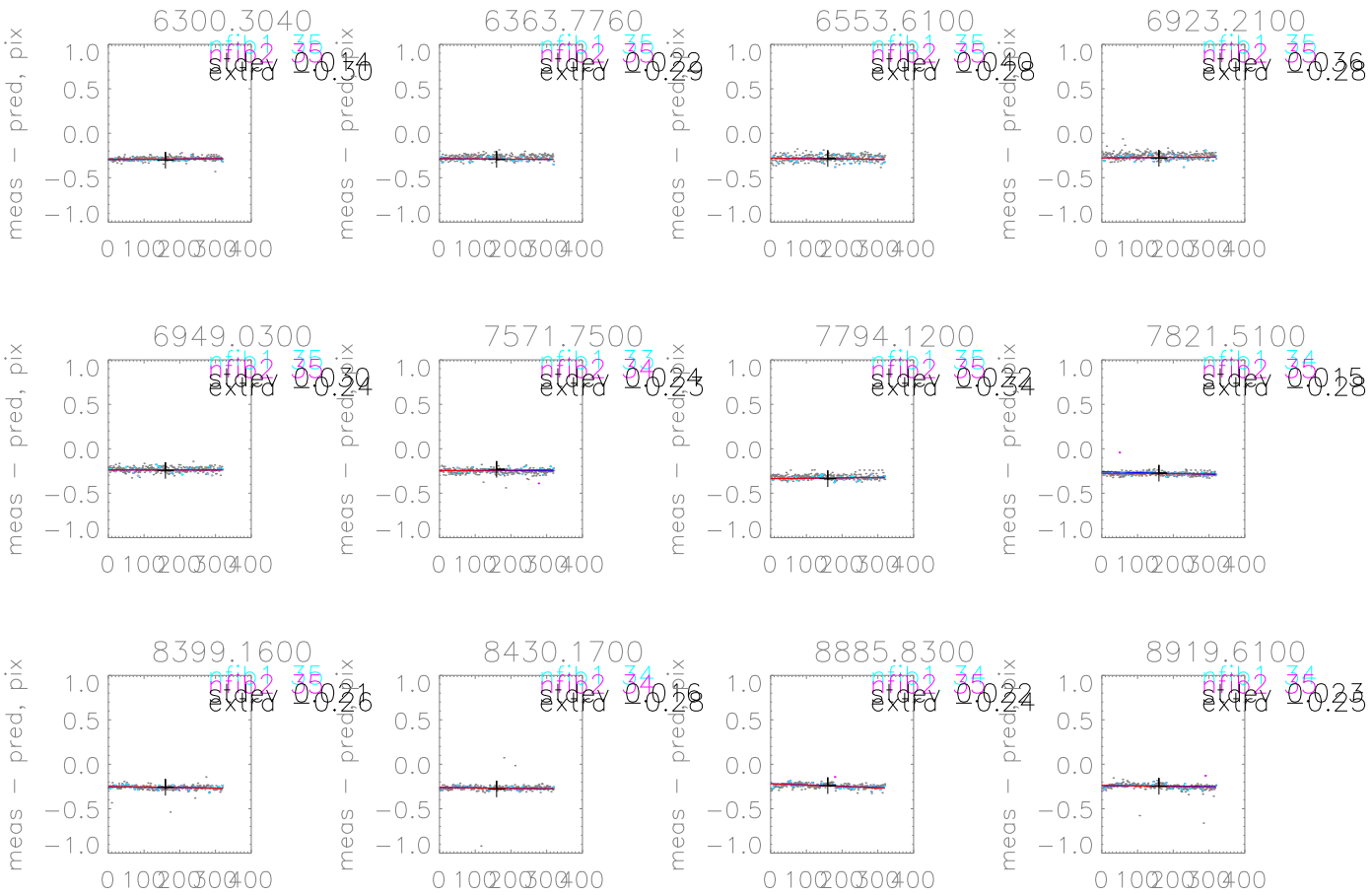

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

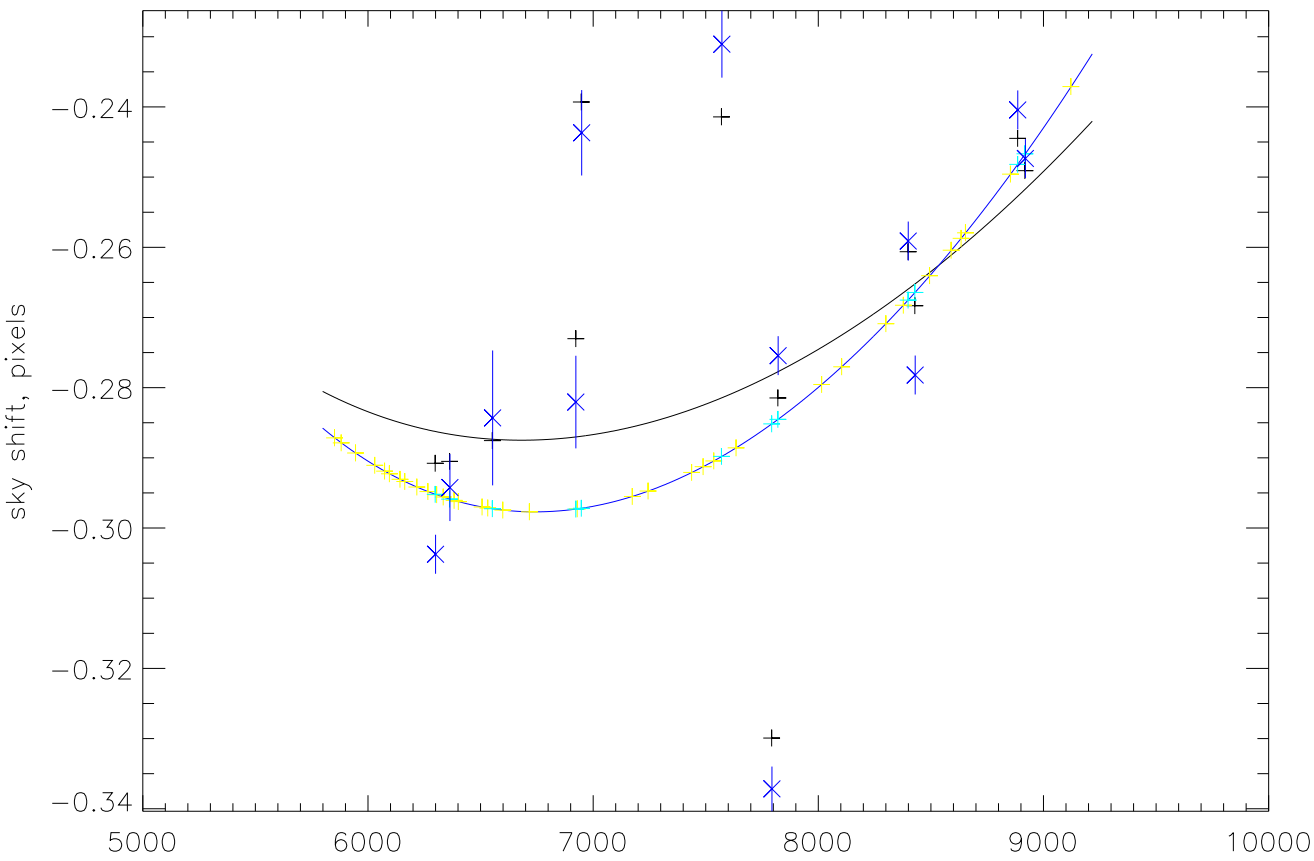

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

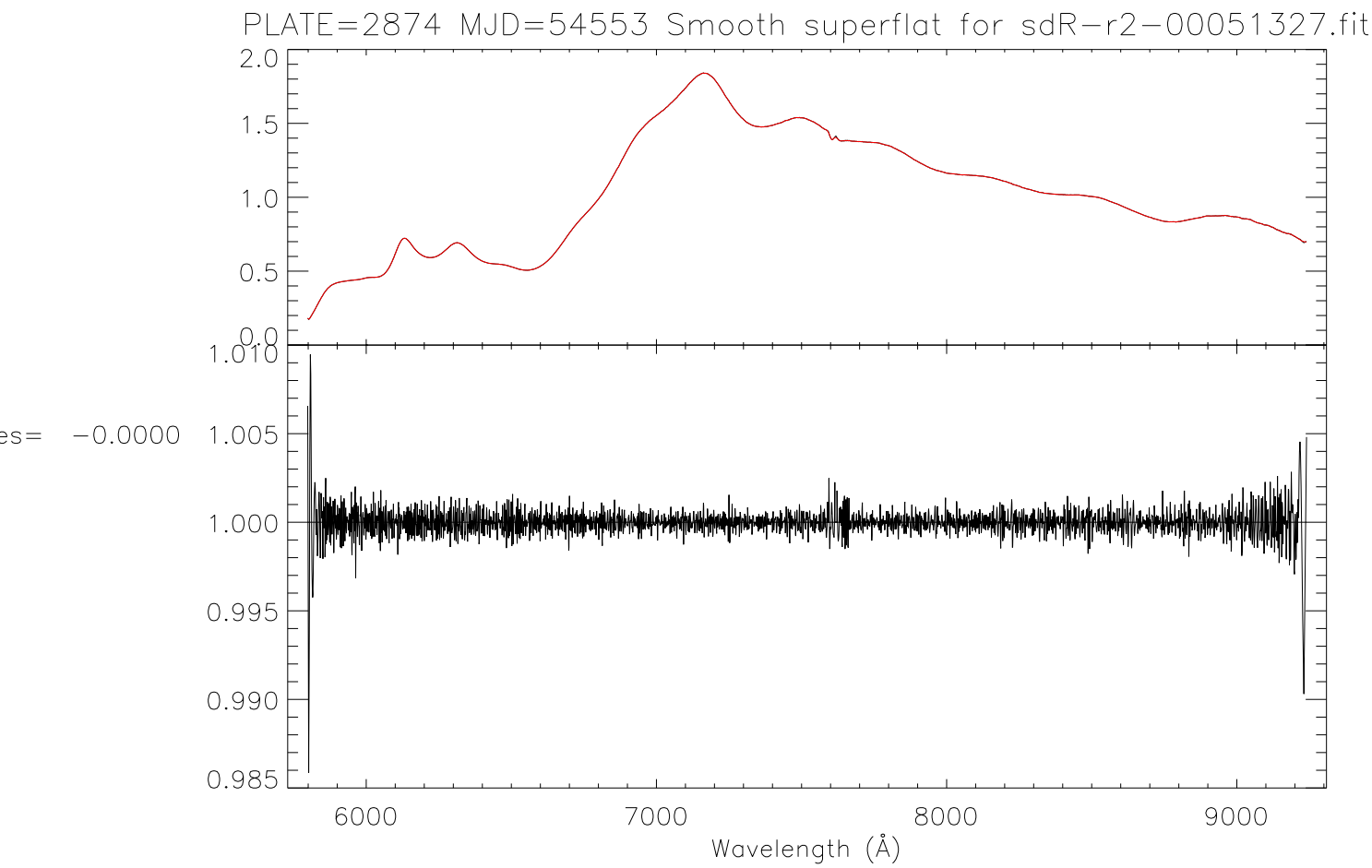

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

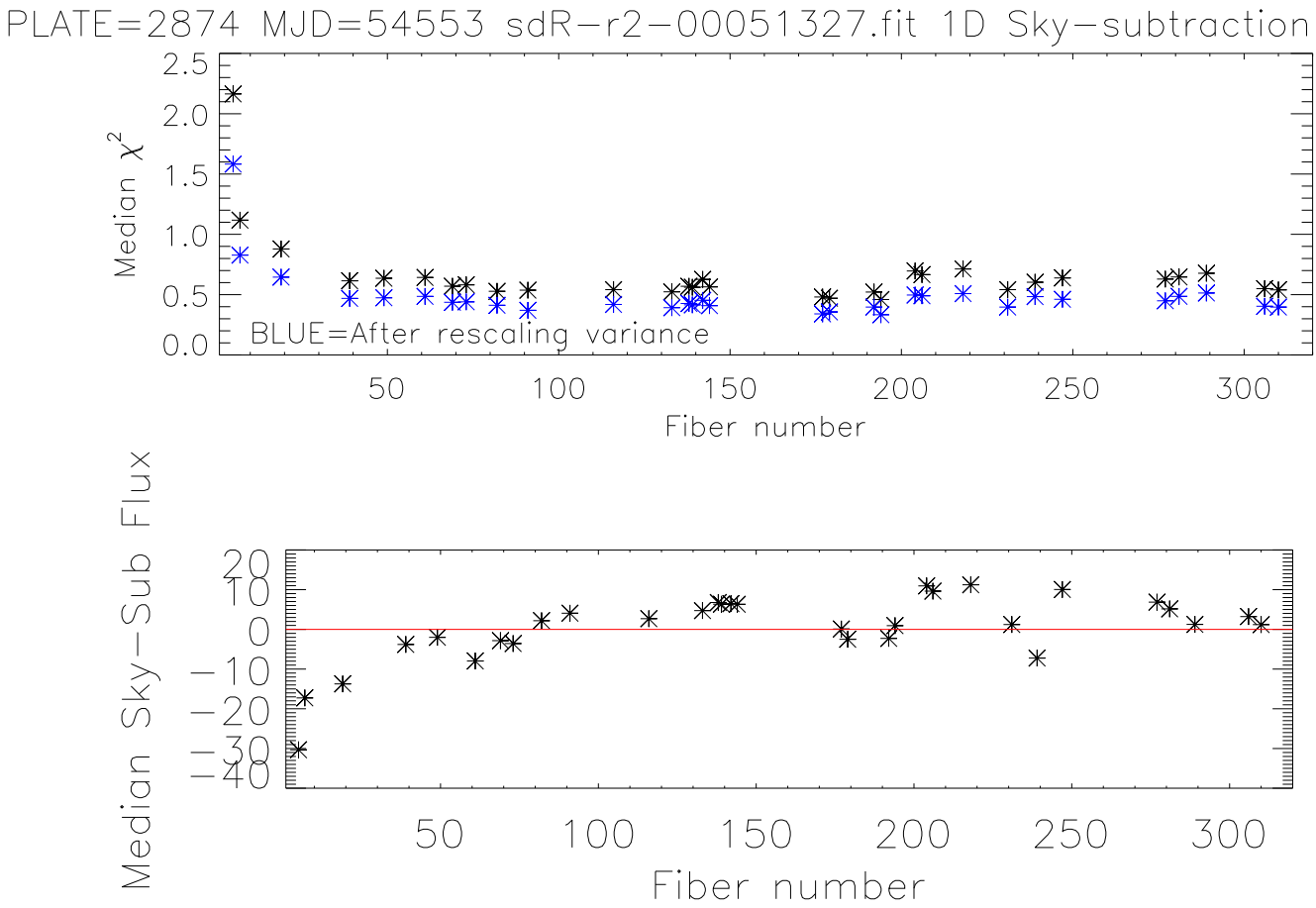

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

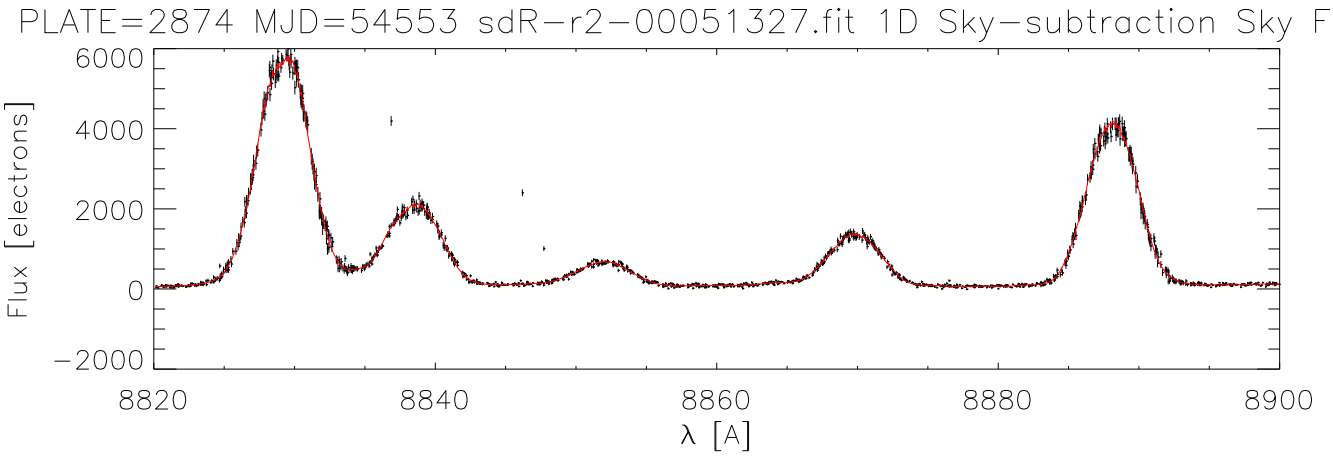

6300.3040
mfib1 35
mfib2 35
stdev 0.014
extra −0.30
6363.7760
mfib1 35
mfib2 35
stdev 0.022
extra −0.29
6553.6100
mfib1 35
mfib2 35
stdev 0.040
extra −0.28
6923.2100
mfib1 35
mfib2 35
stdev 0.036
extra −0.28
6949.0300
mfib1 35
mfib2 35
stdev 0.030
extra −0.24
7571.7500
mfib1 37
mfib2 34
stdev 0.024
extra −0.23
7794.1200
mfib1 35
mfib2 35
stdev 0.032
extra −0.34
7821.5100
mfib1 34
mfib2 34
stdev 0.015
extra −0.28
8399.1600
mfib1 35
mfib2 35
stdev 0.021
extra −0.26
8430.1700
mfib1 34
mfib2 34
stdev 0.016
extra −0.28
8885.8300
mfib1 34
mfib2 34
stdev 0.022
extra −0.24
8919.6100
mfib1 34
mfib2 34
stdev 0.023
extra −0.25
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

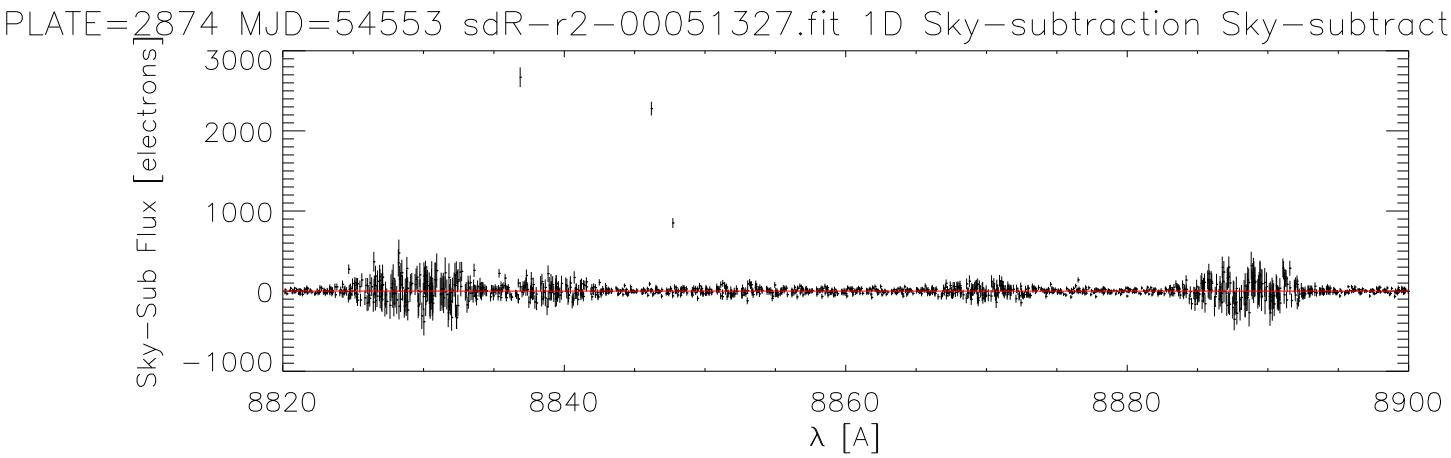

sky shift, pixels
−0.24
−0.26
−0.28
−0.30
−0.32
−0.34
5000
6000
7000
8000
9000
10000

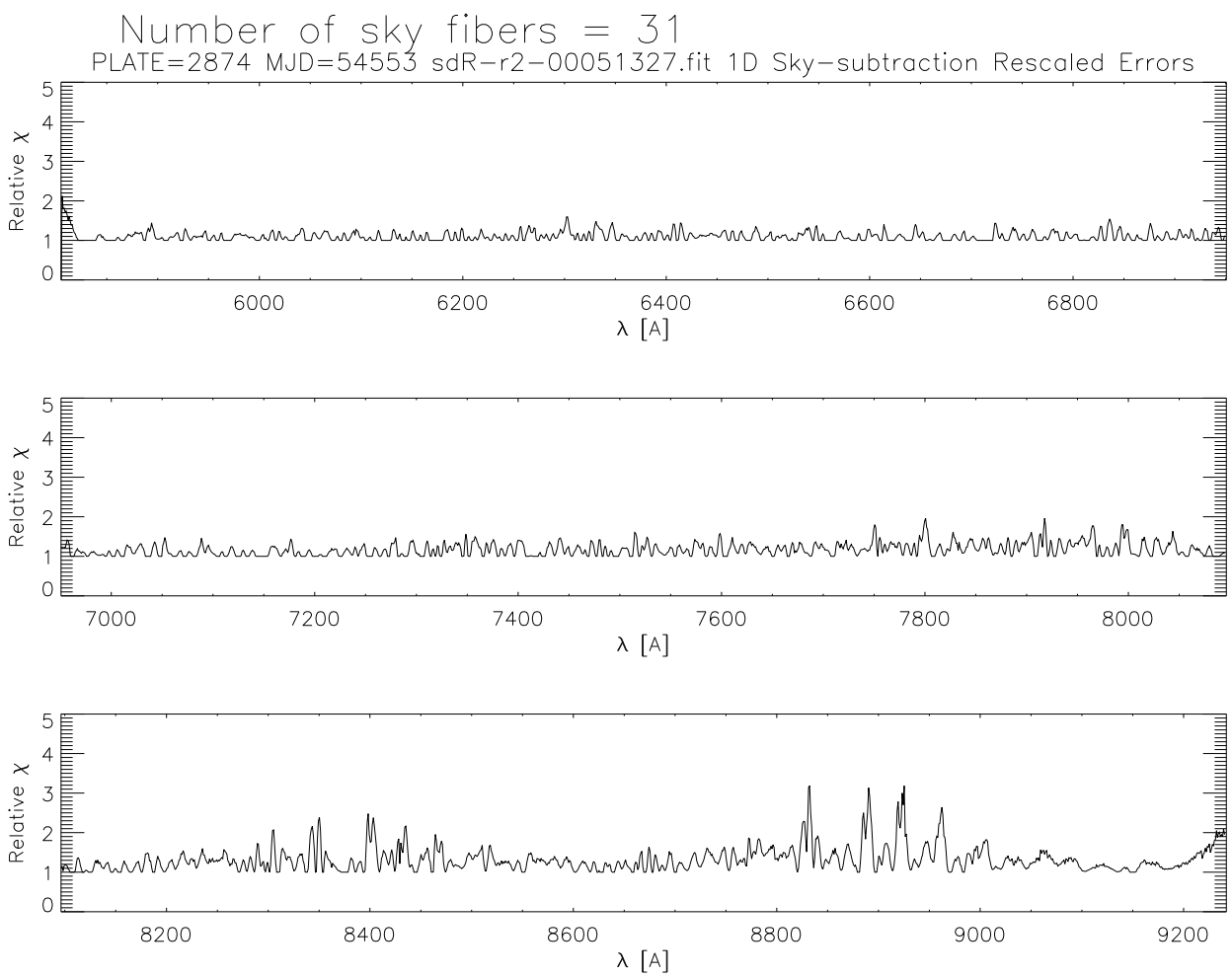

PLATE=2874 MJD=54553 Smooth superflat for sdR-r2-00051327.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

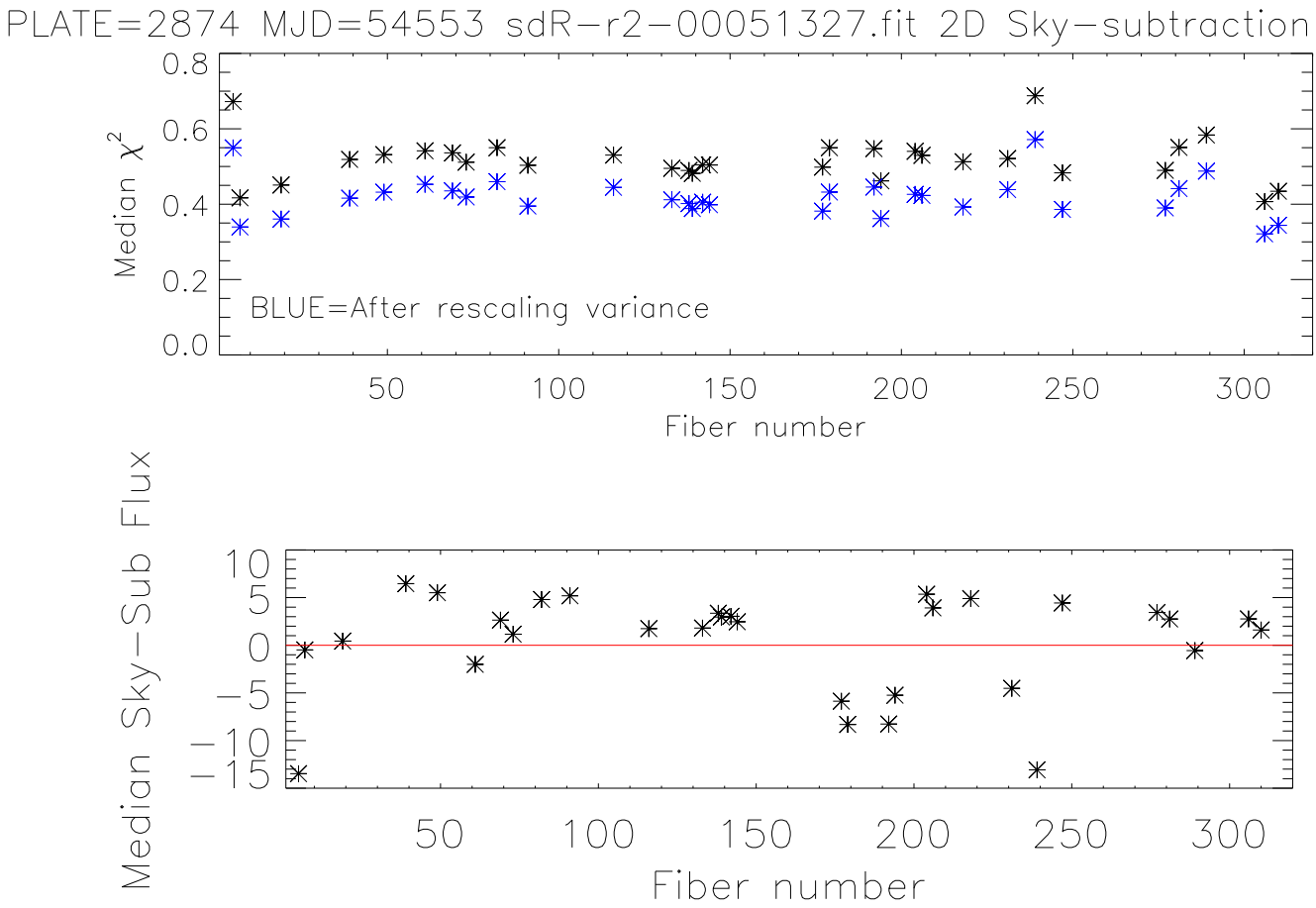
es= −0.0000

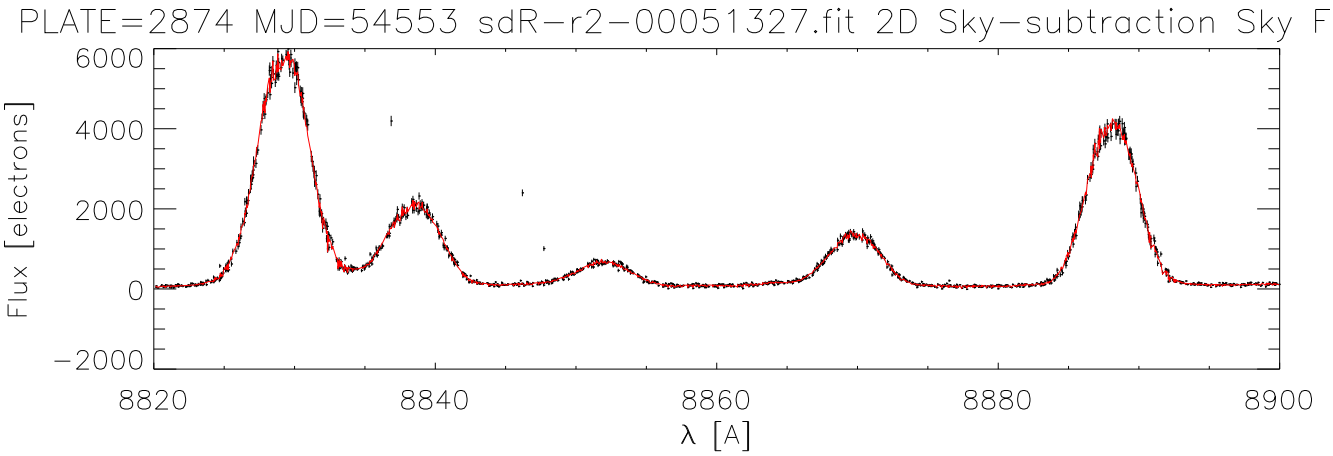

PLATE=2874 MJD=54553 sdR-r2-00051327.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

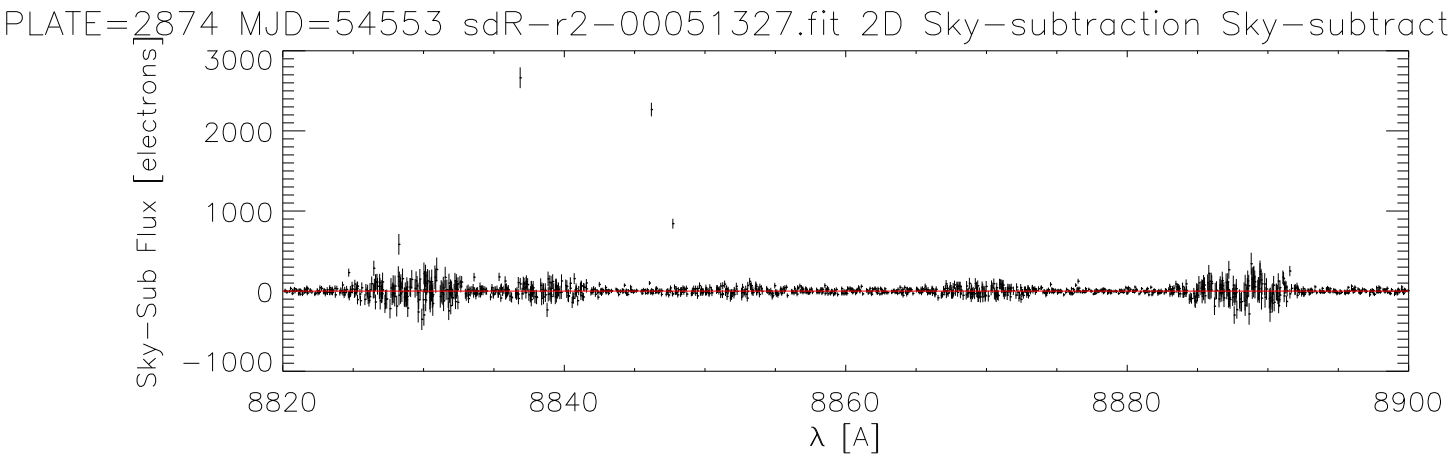

PLATE=2874 MJD=54553 sdR-r2-00051327.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

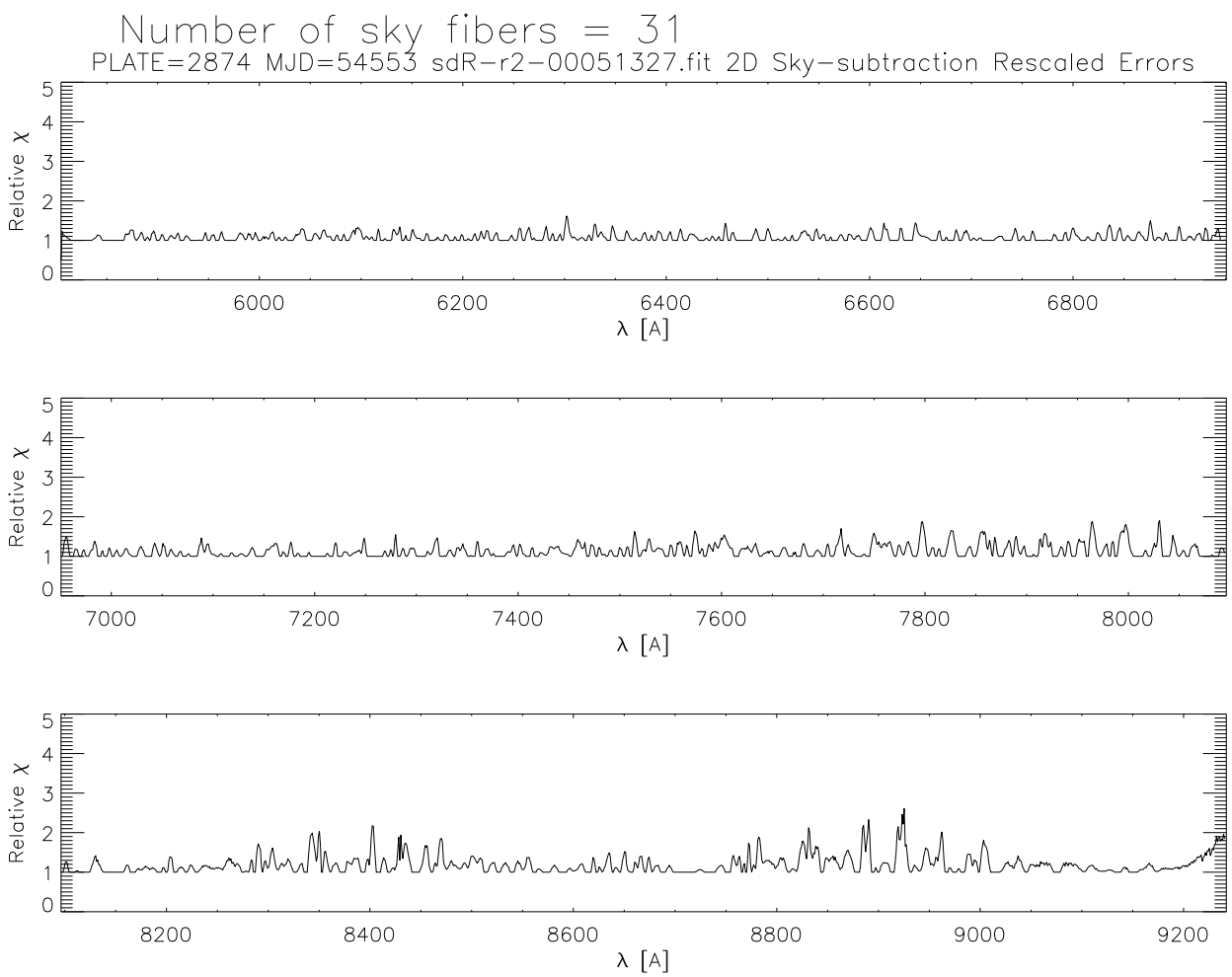

PLATE=2874 MJD=54553 sdR-r2-00051327.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

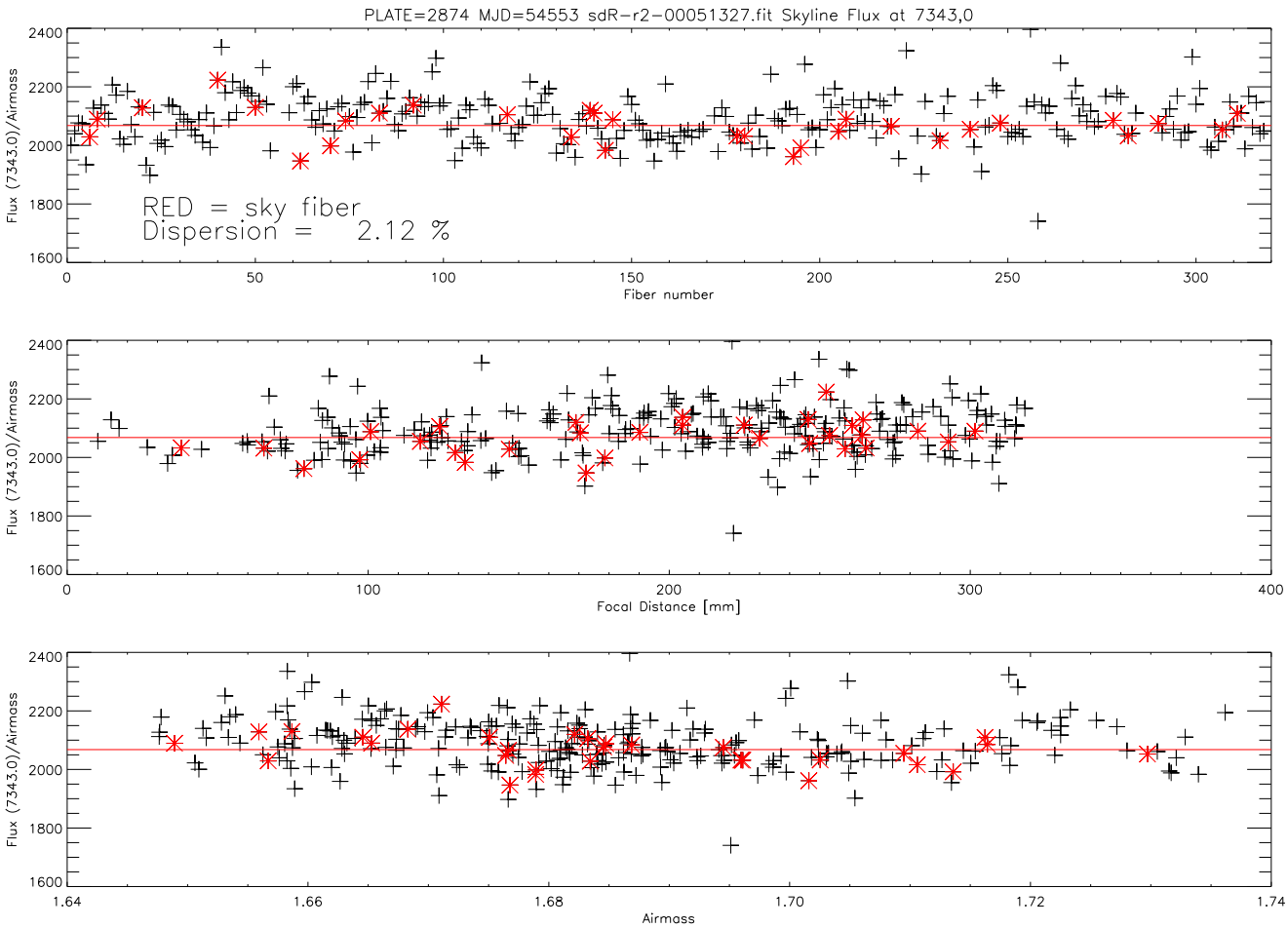

Number of sky fibers = 31
PLATE=2874 MJD=54553 sdR-r2-00051327.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

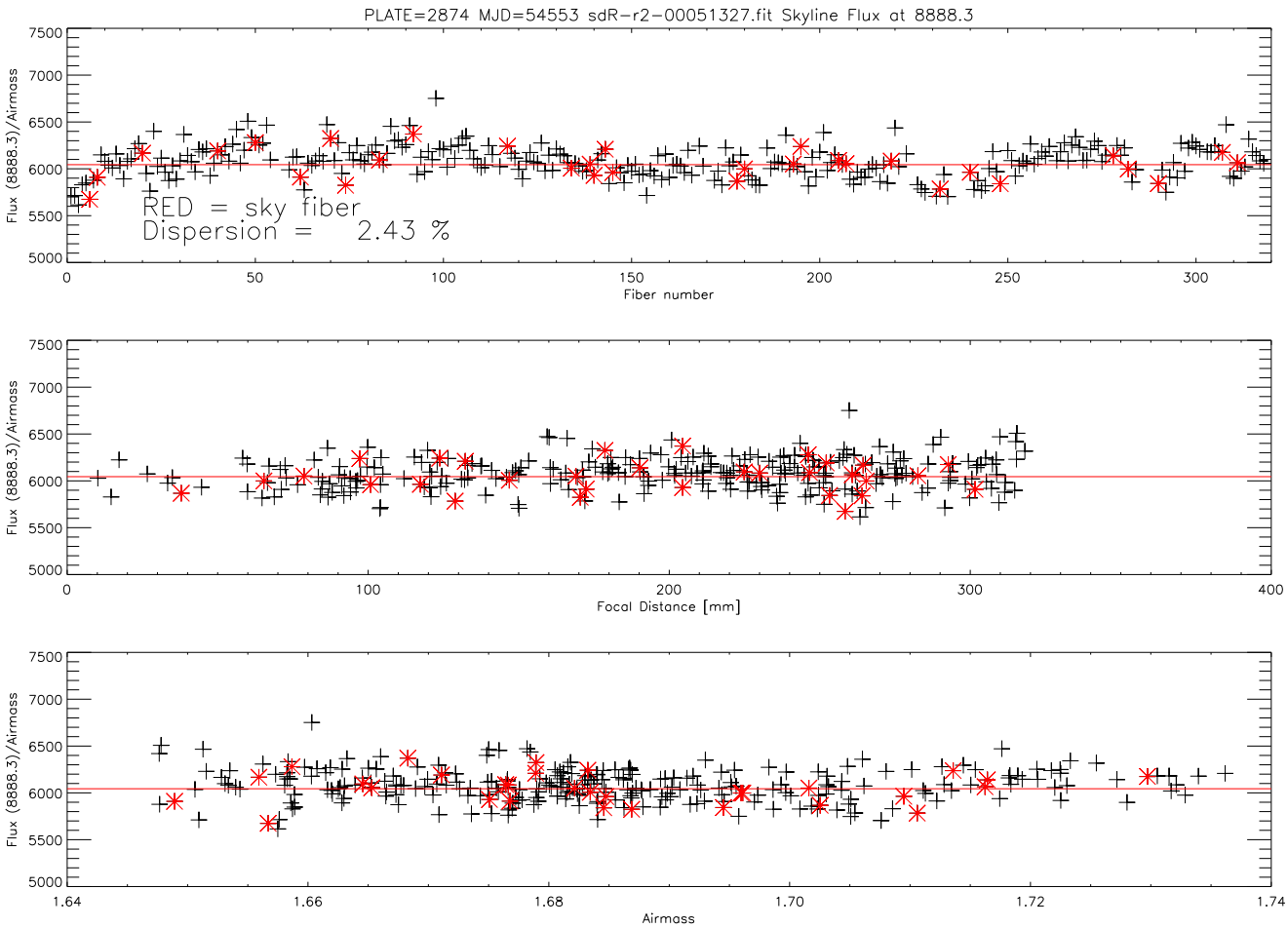

PLATE=2874 MJD=54553 sdR-r2-00051327.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

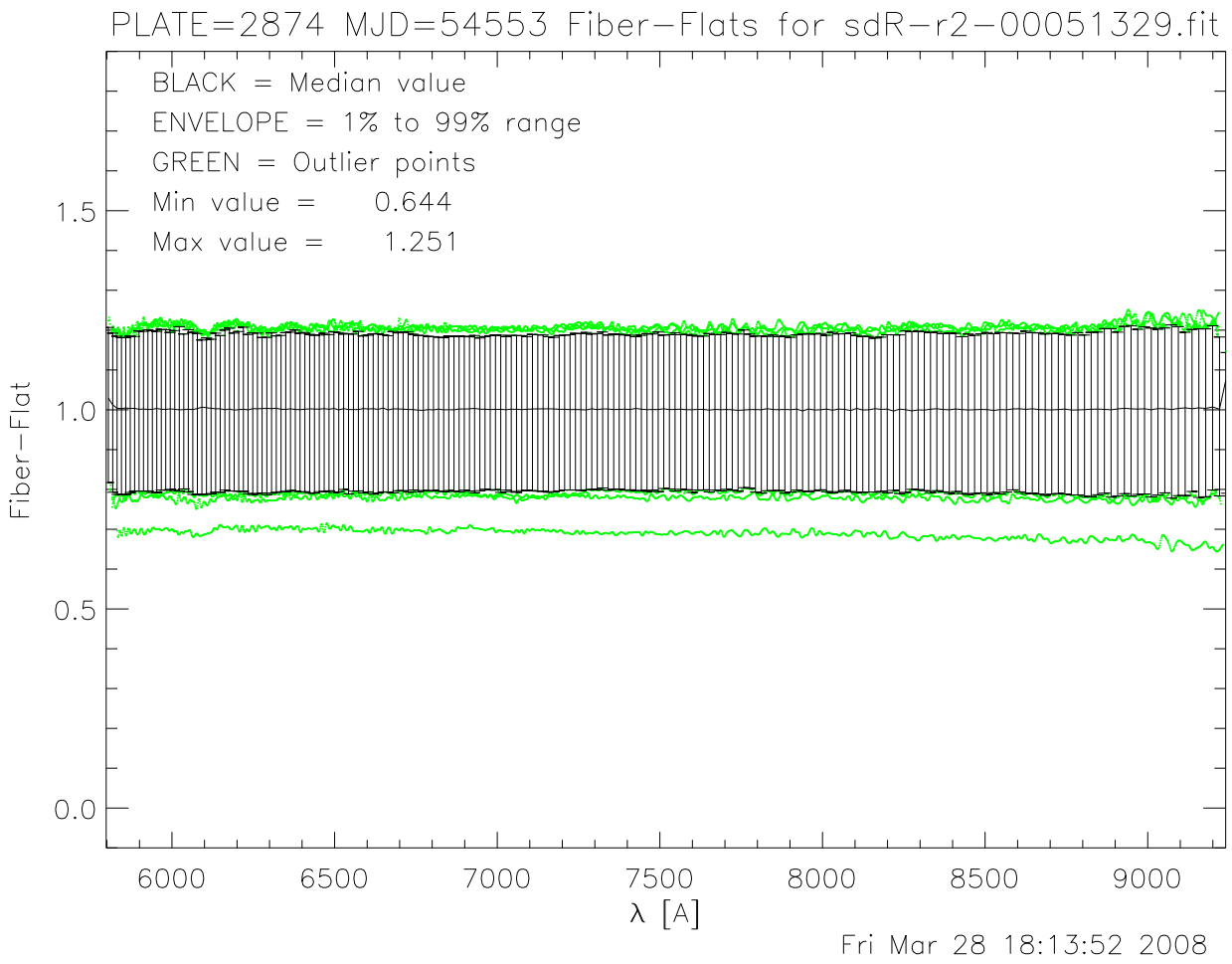

PLATE=2874 MJD=54553 sdR-r2-00051327.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
−2000
8820
8840
8860
8880
8900
λ [A]

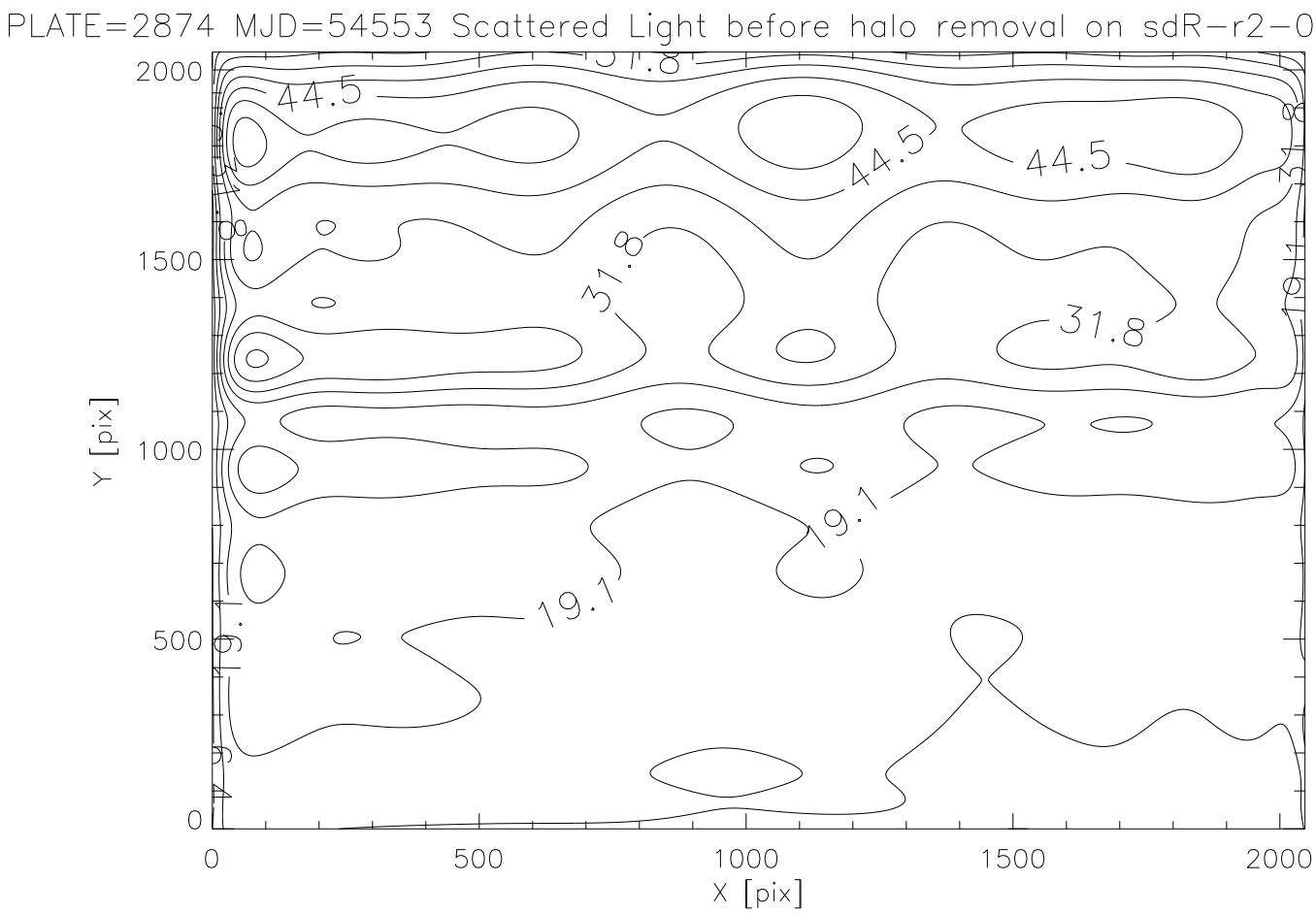

PLATE=2874 MJD=54553 sdR-r2-00051327.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

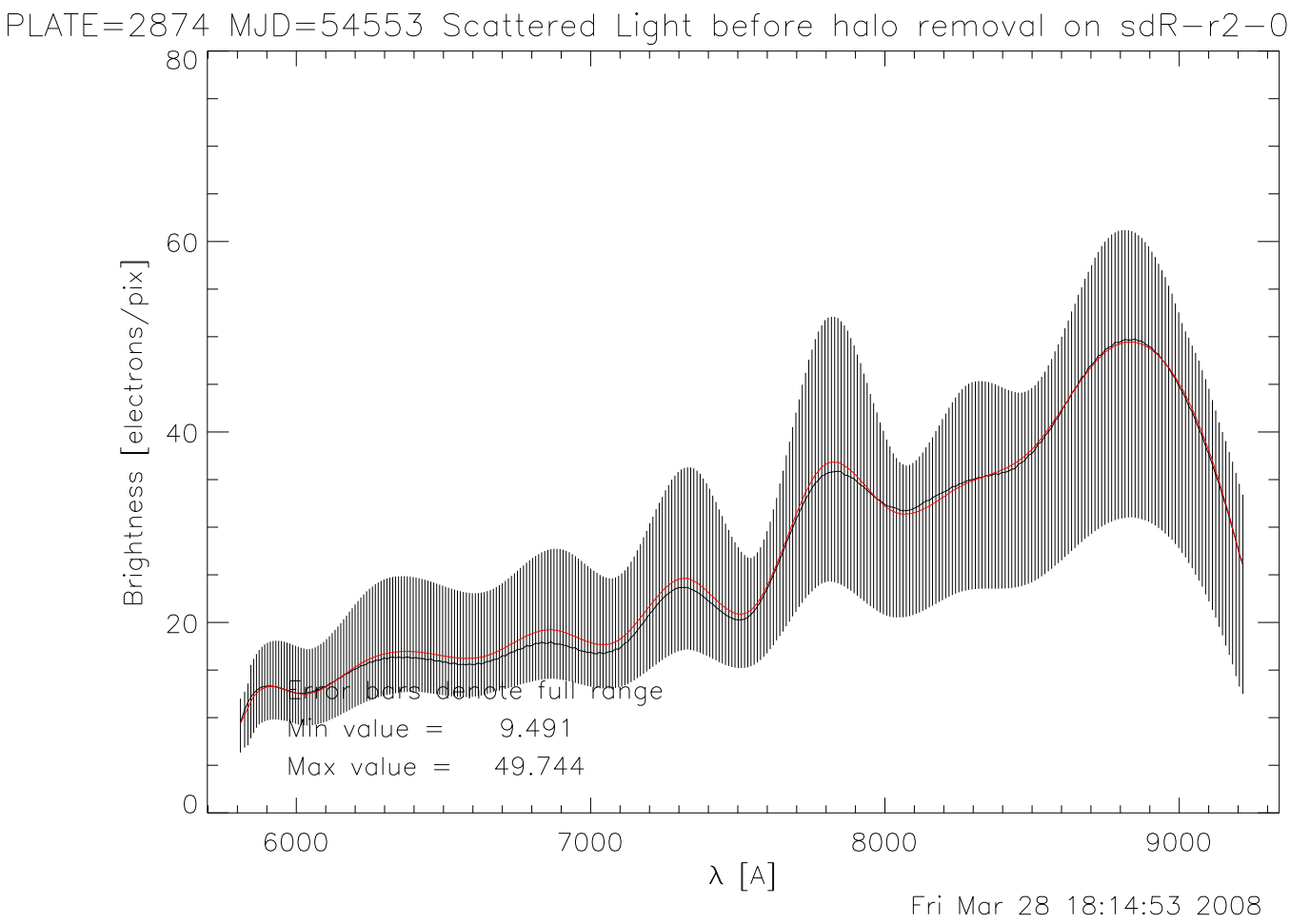

Number of sky fibers = 31
PLATE=2874 MJD=54553 sdR-r2-00051327.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

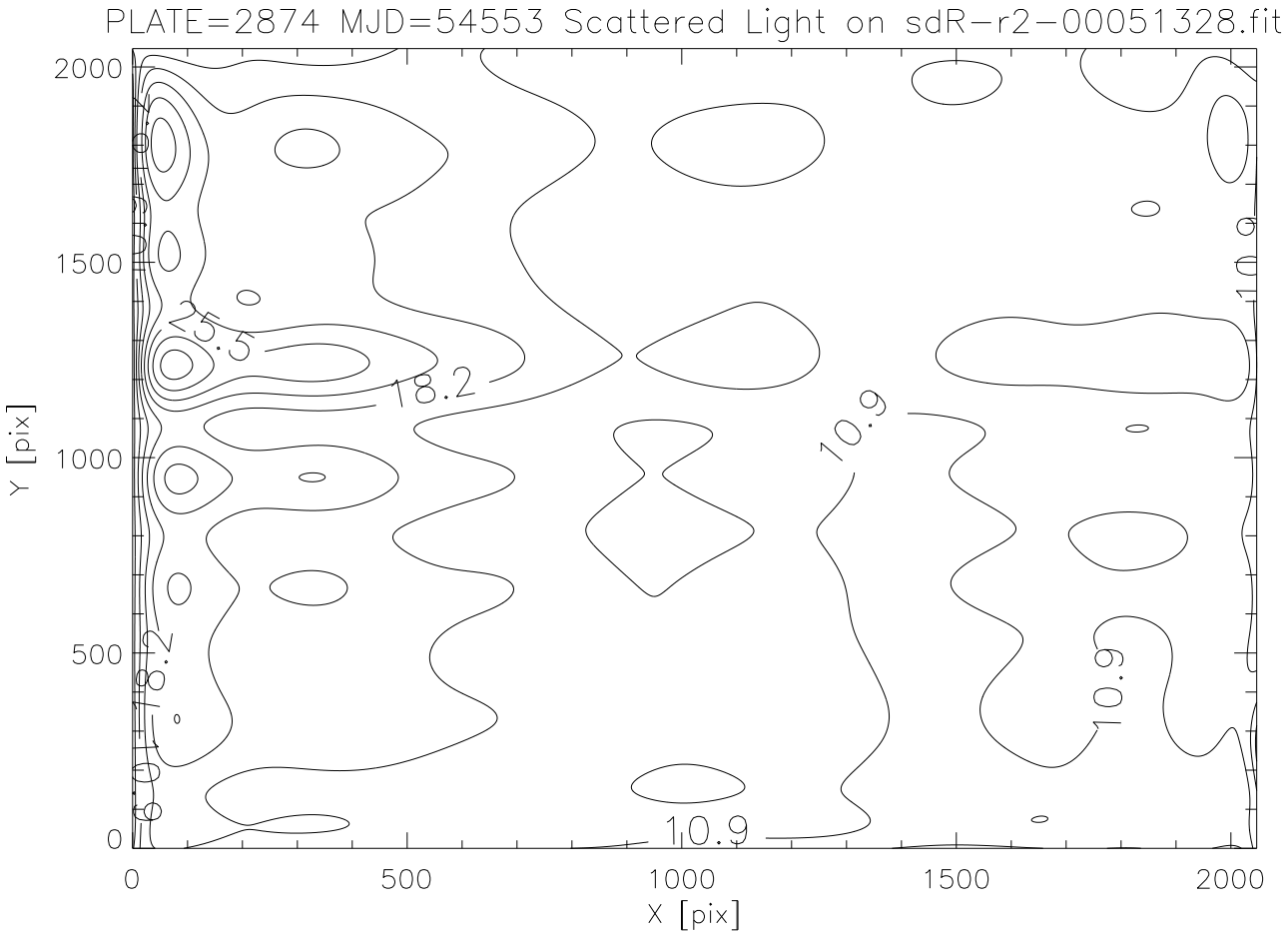

PLATE=2874 MJD=54553 sdR-r2-00051327.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.12 %
Fiber number
Focal Distance [mm]
Airmass

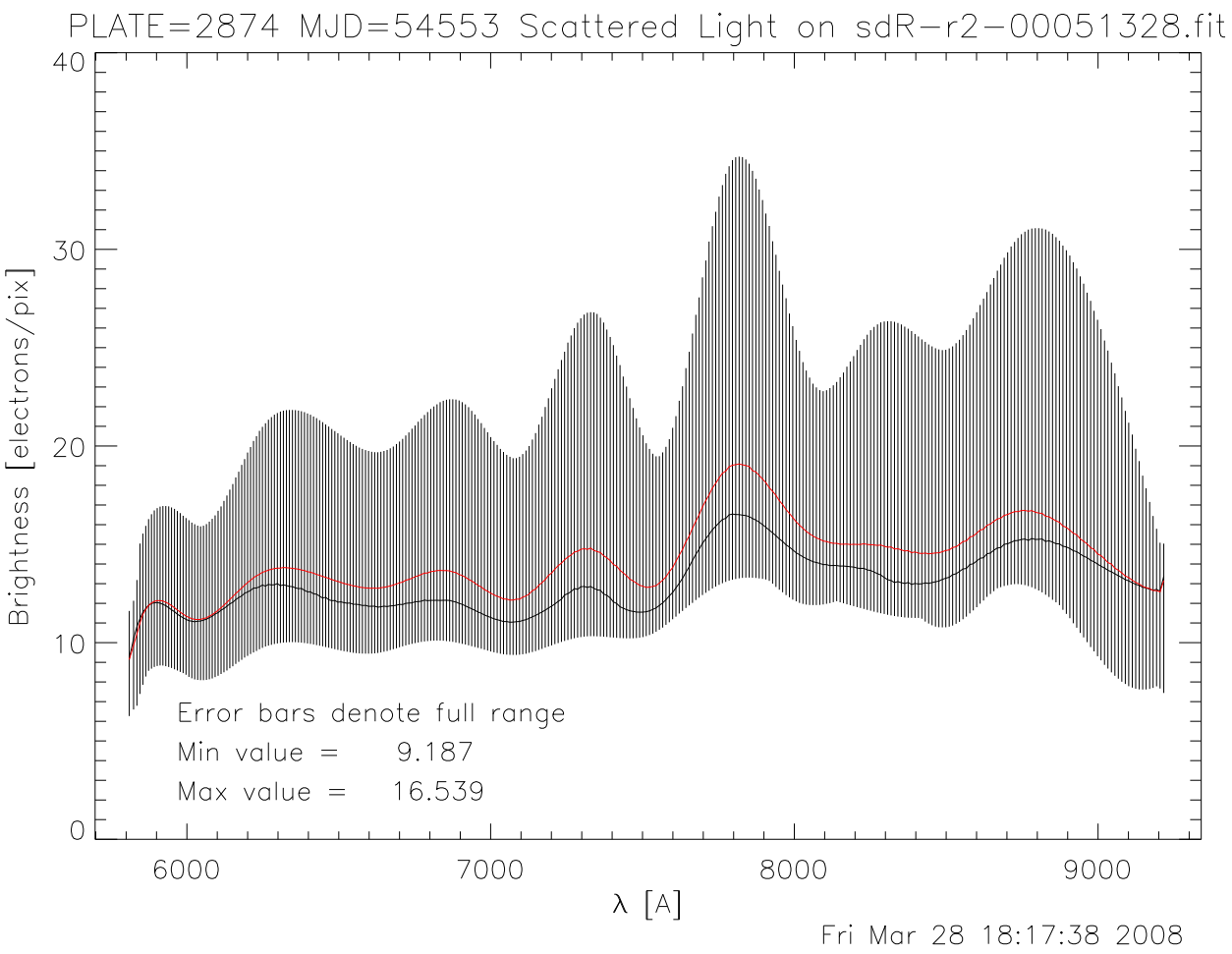

PLATE=2874 MJD=54553 sdR-r2-00051327.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.43 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

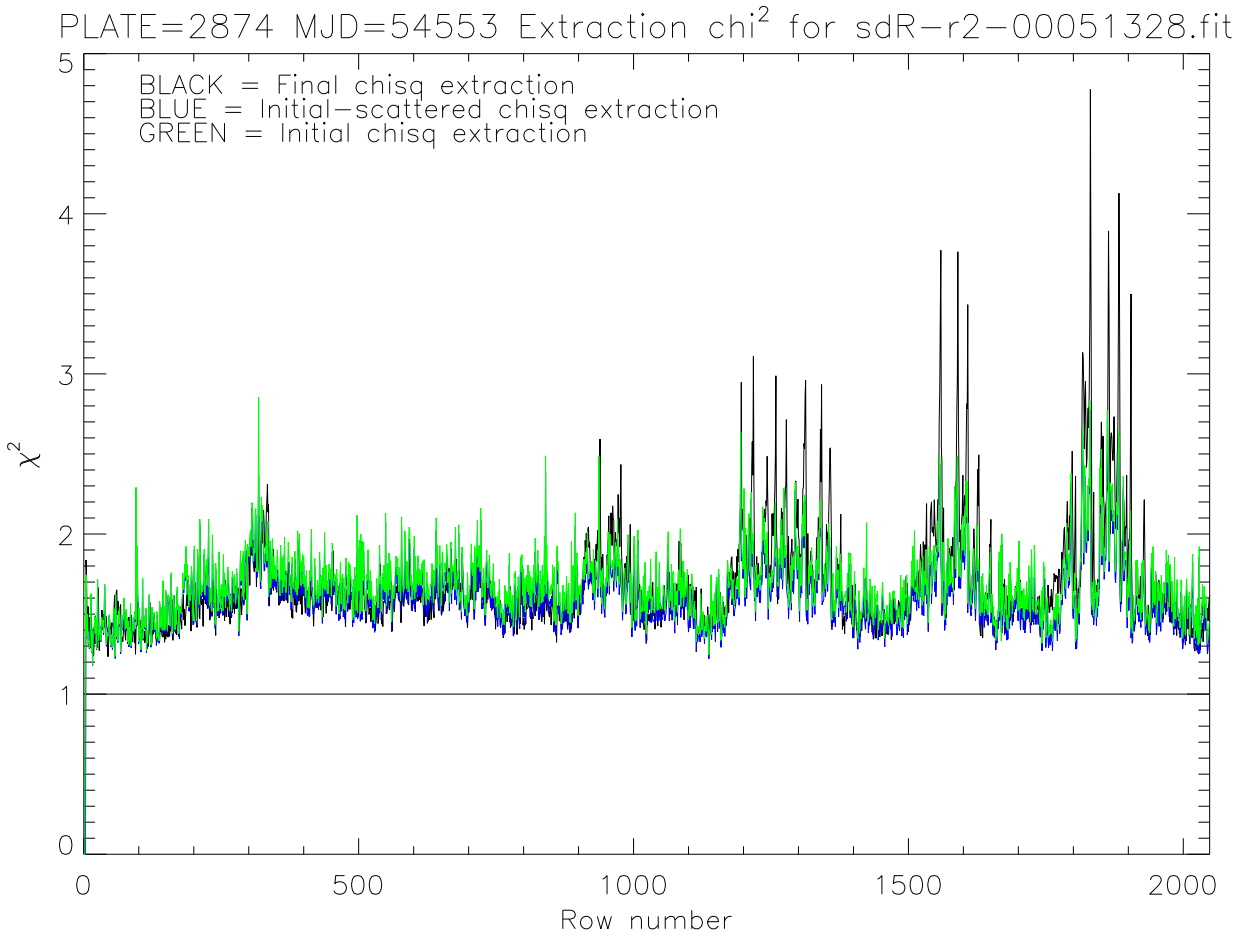

PLATE=2874 MJD=54553 Fiber−Flats for sdR−r2−00051329.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.644
Max value = 1.251
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Fri Mar 28 18:13:52 2008

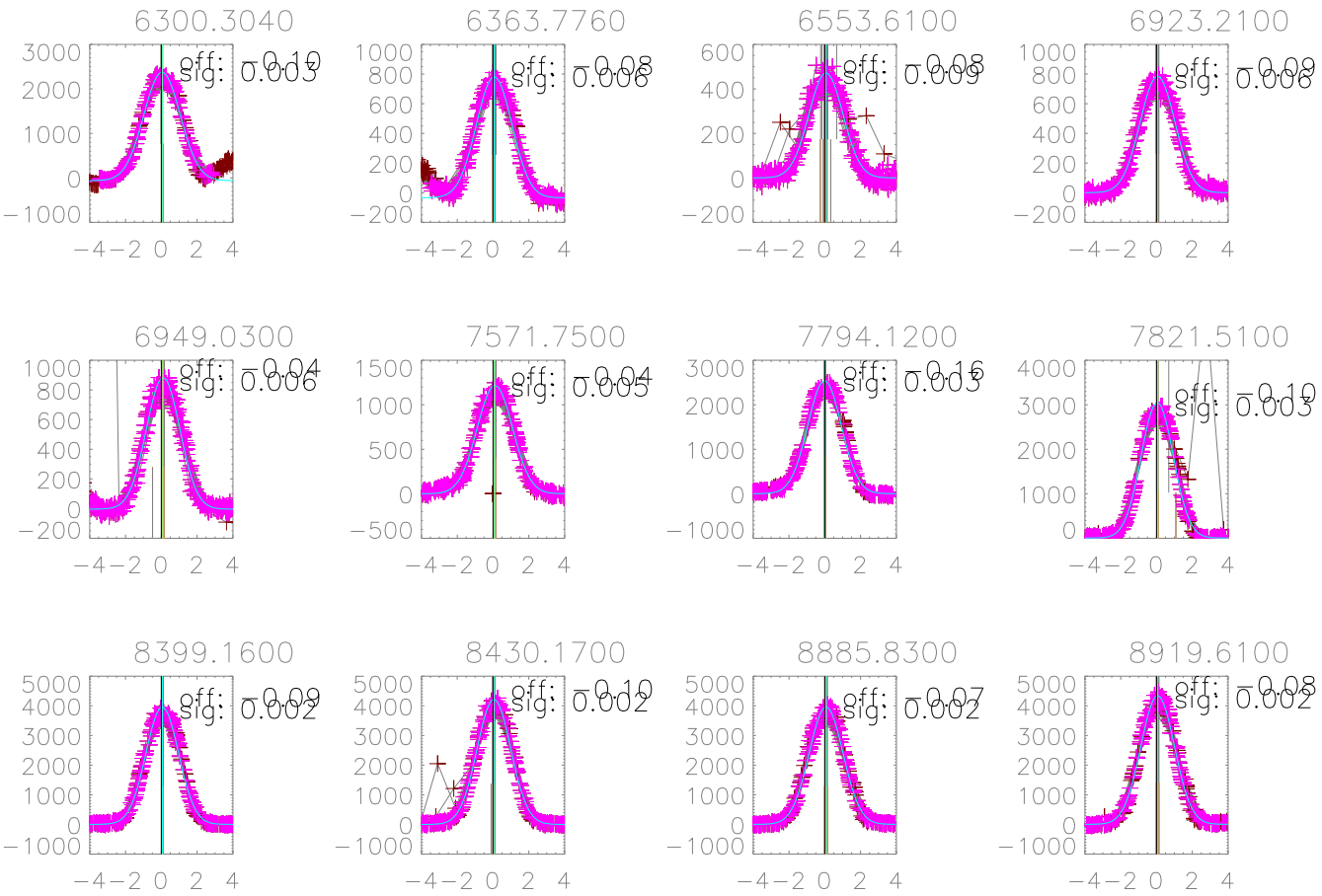

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR-r2-00051328.fi
44.5
44.5
44.5
31.8
31.8
31.8
19.1
19.1
19.1
Y [pix]
X [pix]
0
500
1000
1500
2000

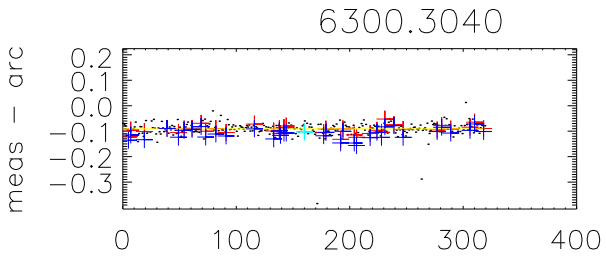

PLATE=2874 MJD=54553 Scattered Light before halo removal on sdR-r2-00051328.fi
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 9.491
Max value = 49.744
Fri Mar 28 18:14:53 2008

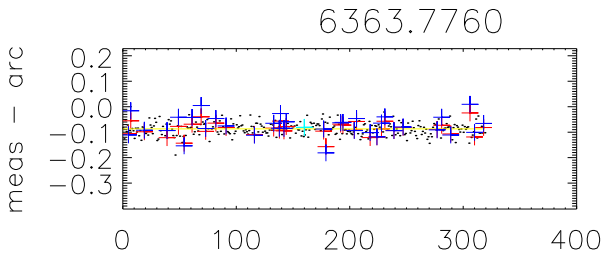

PLATE=2874 MJD=54553 Scattered Light on sdR-r2-00051328.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
25.5
18.2
10.9

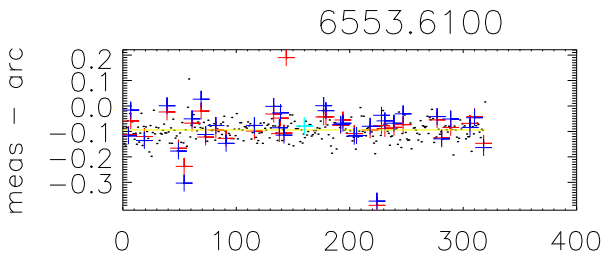

PLATE=2874 MJD=54553 Scattered Light on sdR-r2-00051328.fit
Brightness [electrons/pix]
40
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 9.187
Max value = 16.539
Fri Mar 28 18:17:38 2008

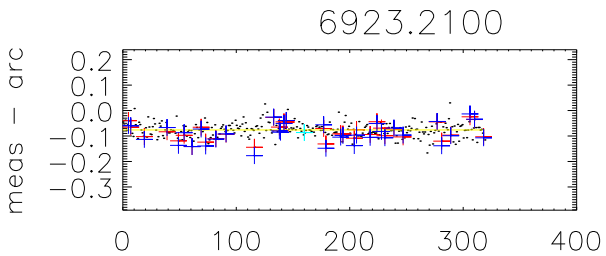

PLATE=2874 MJD=54553 Extraction chi^2 for sdR−r2−00051328.fit
BLACK = Final chisq extraction
BLUE = Initial−scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

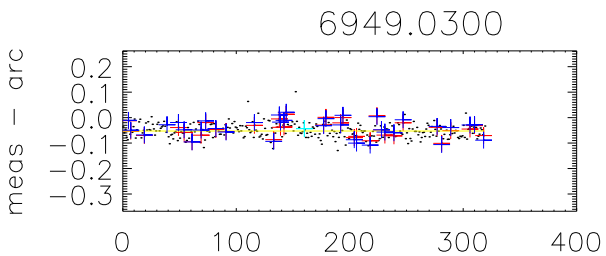

6300.3040
off: −0.10
sig: 0.003
6363.7760
off: −0.08
sig: 0.006
6553.6100
off: −0.08
sig: 0.009
6923.2100
off: −0.09
sig: 0.006
6949.0300
off: −0.04
sig: 0.006
7571.7500
off: −0.04
sig: 0.005
7794.1200
off: −0.16
sig: 0.003
7821.5100
off: −0.10
sig: 0.003
8399.1600
off: −0.09
sig: 0.002
8430.1700
off: −0.10
sig: 0.002
8885.8300
off: −0.07
sig: 0.002
8919.6100
off: −0.08
sig: 0.002

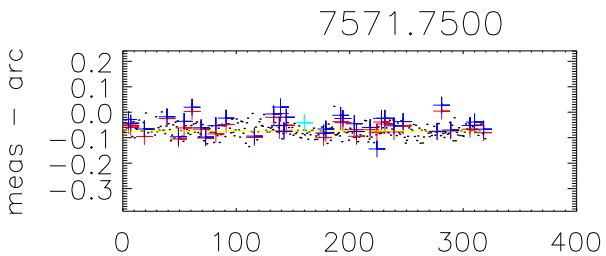

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

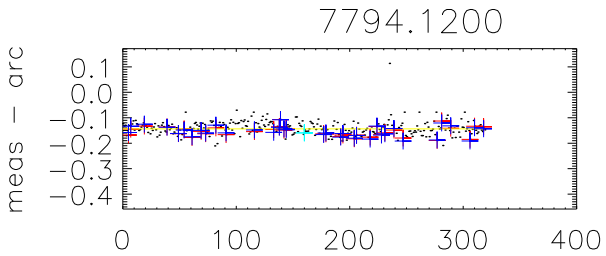

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

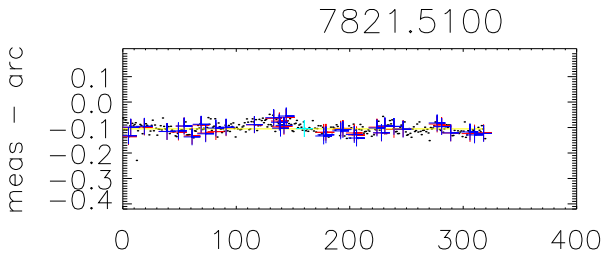

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

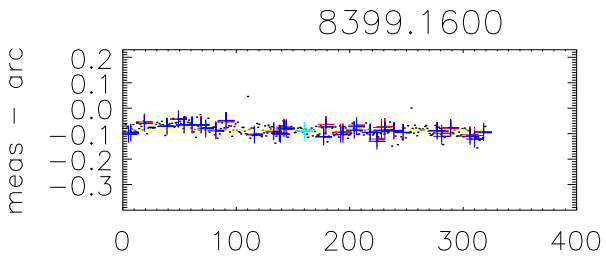

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

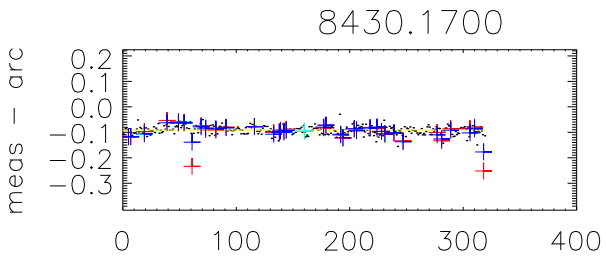

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

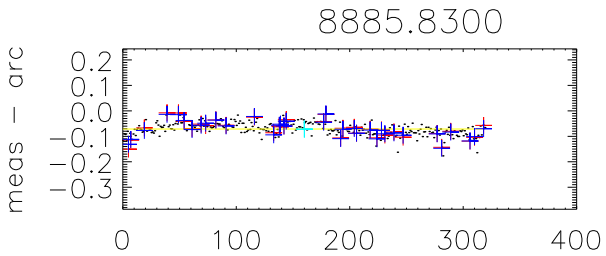

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

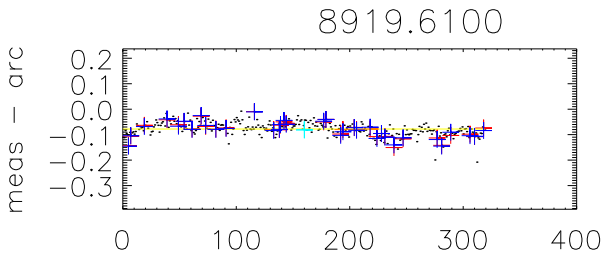

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

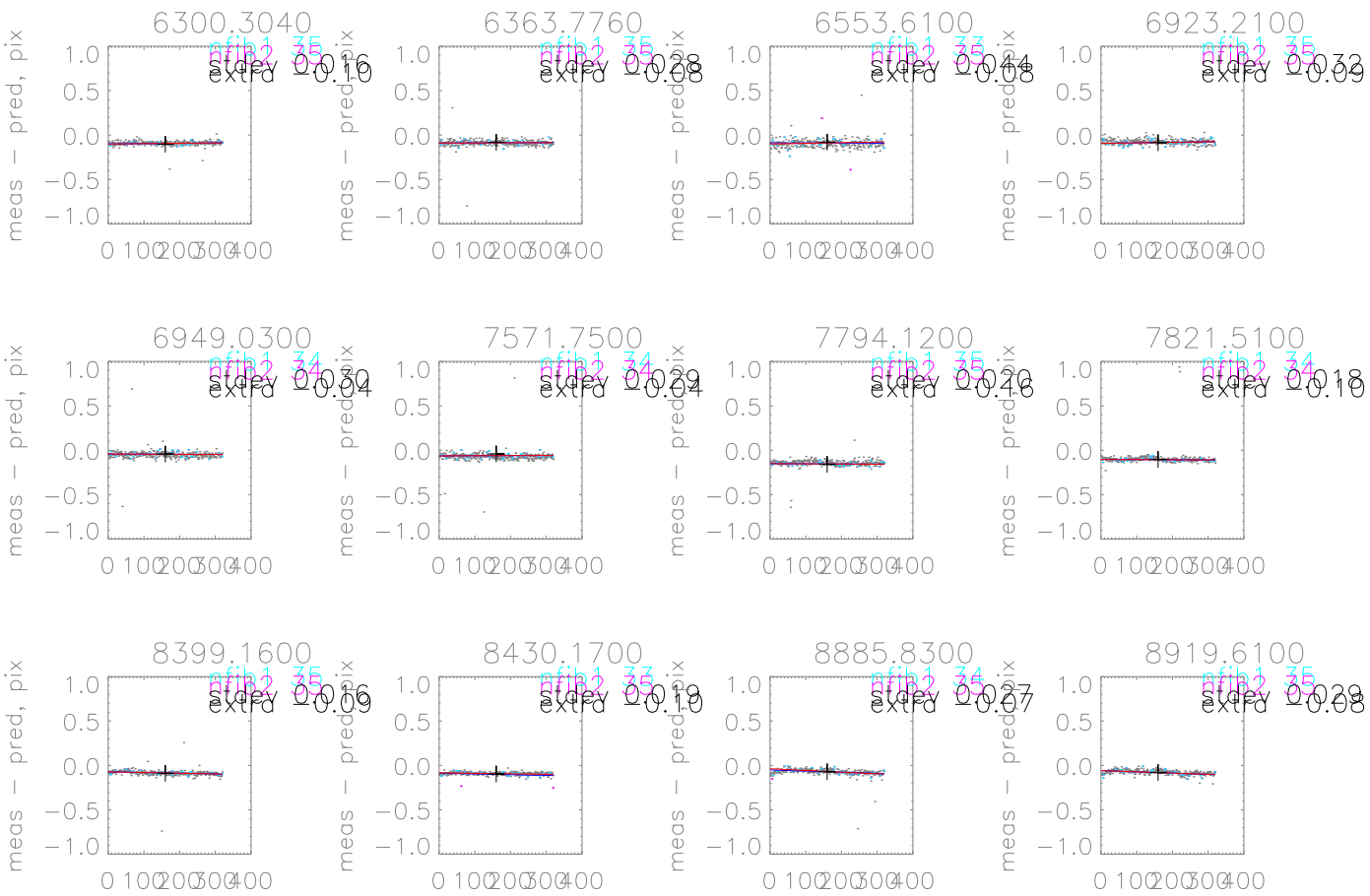

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

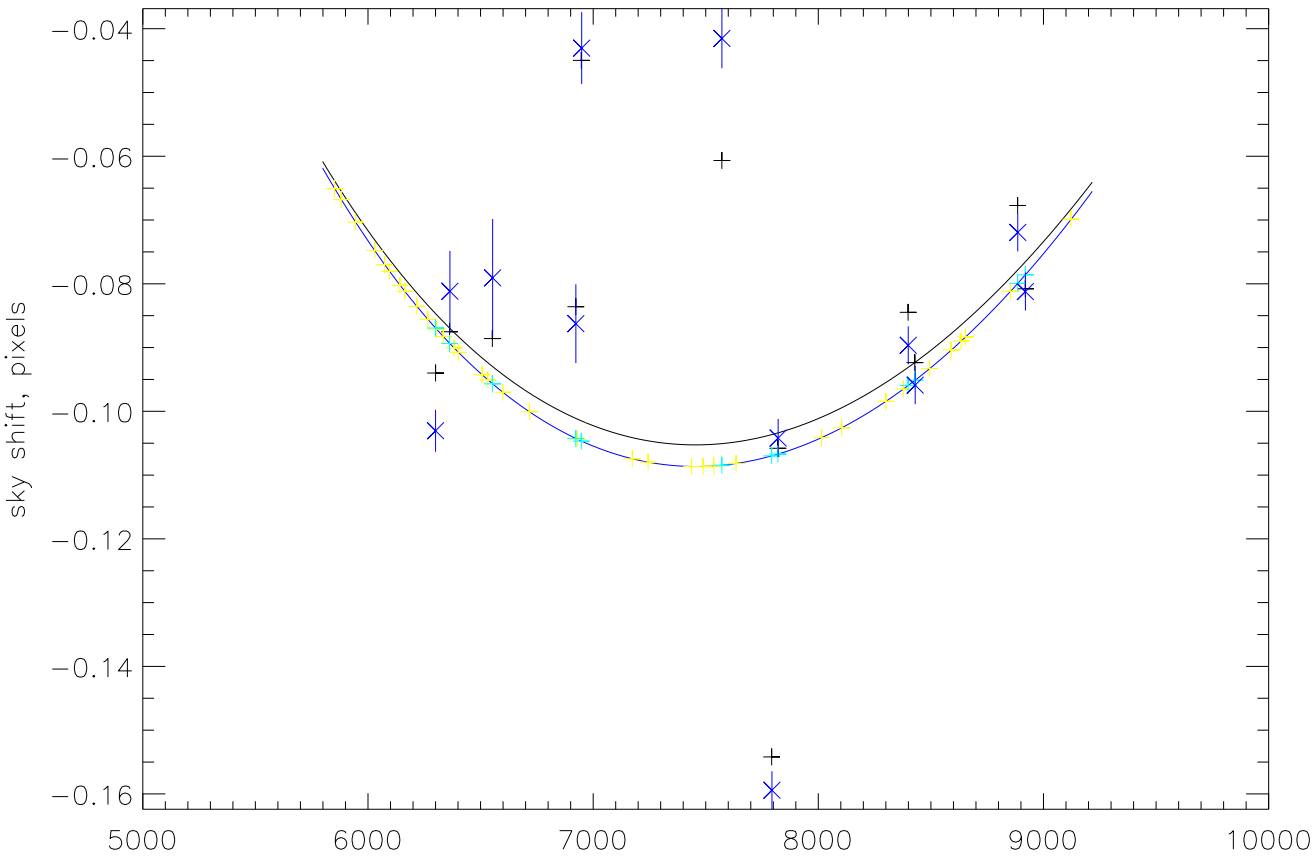

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

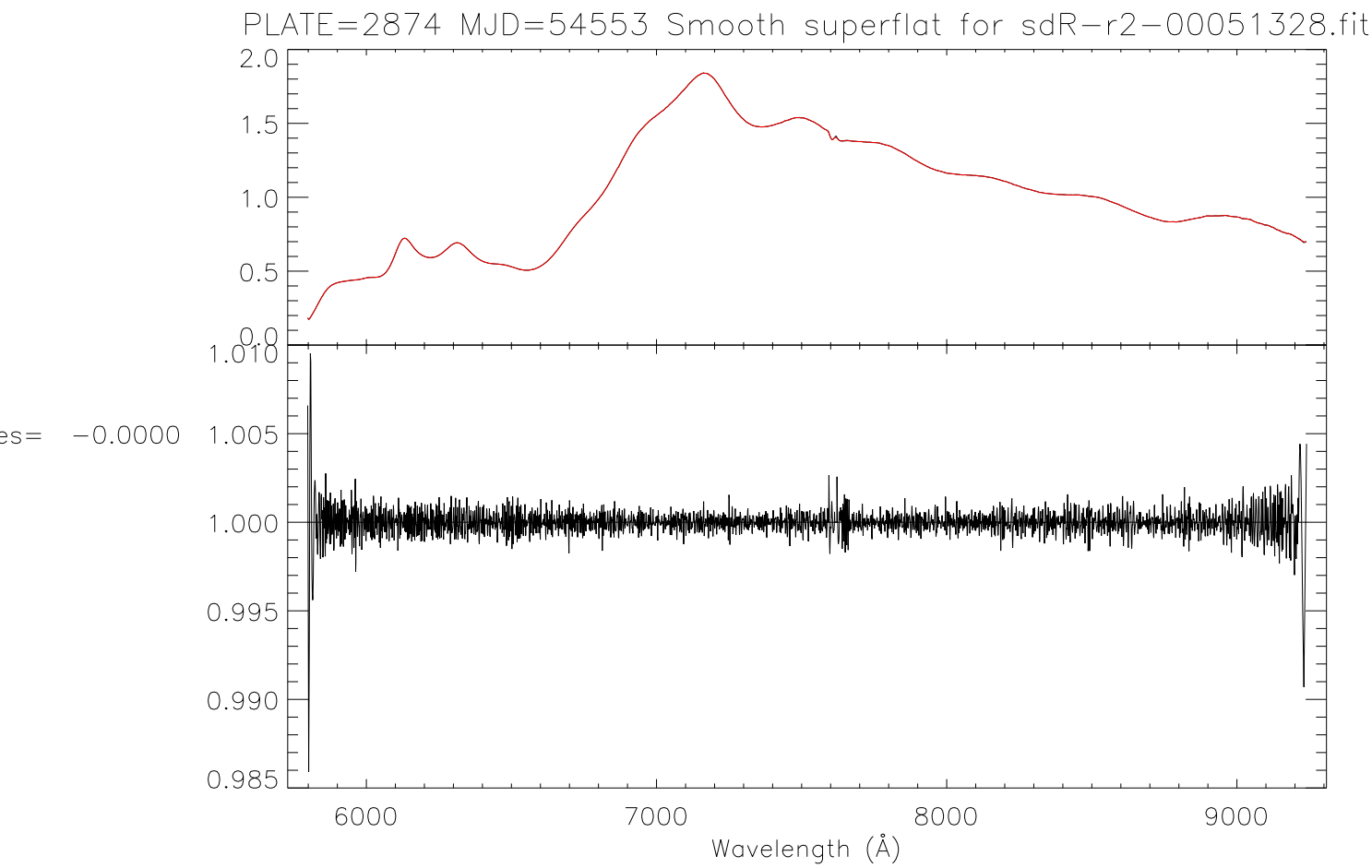

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

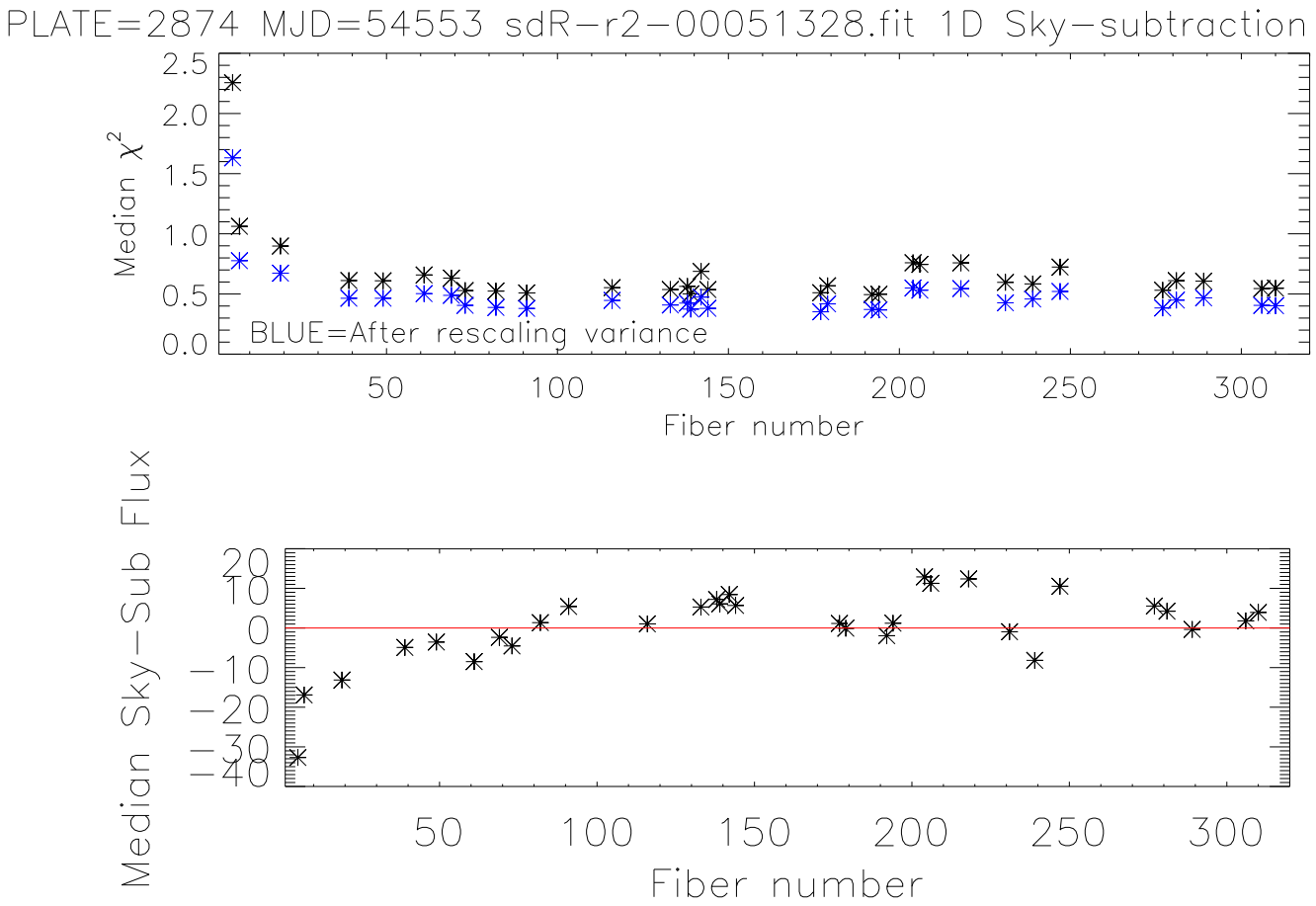

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

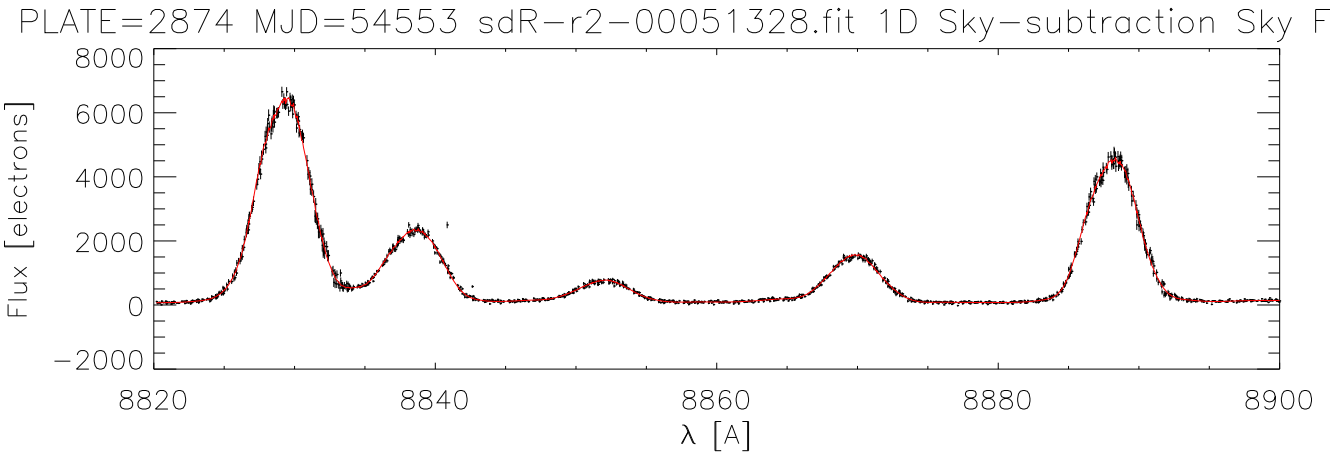

6300.3040
stdev 0.16
extra 0.10
6363.7760
stdev 0.28
extra 0.08
6553.6100
stdev 0.44
extra 0.08
6923.2100
stdev 0.32
extra 0.09
6949.0300
stdev 0.30
extra 0.04
7571.7500
stdev 0.29
extra 0.04
7794.1200
stdev 0.20
extra 0.46
7821.5100
stdev 0.18
extra 0.10
8399.1600
stdev 0.16
extra 0.09
8430.1700
stdev 0.19
extra 0.10
8885.8300
stdev 0.27
extra 0.07
8919.6100
stdev 0.29
extra 0.08
meas − pred, pix

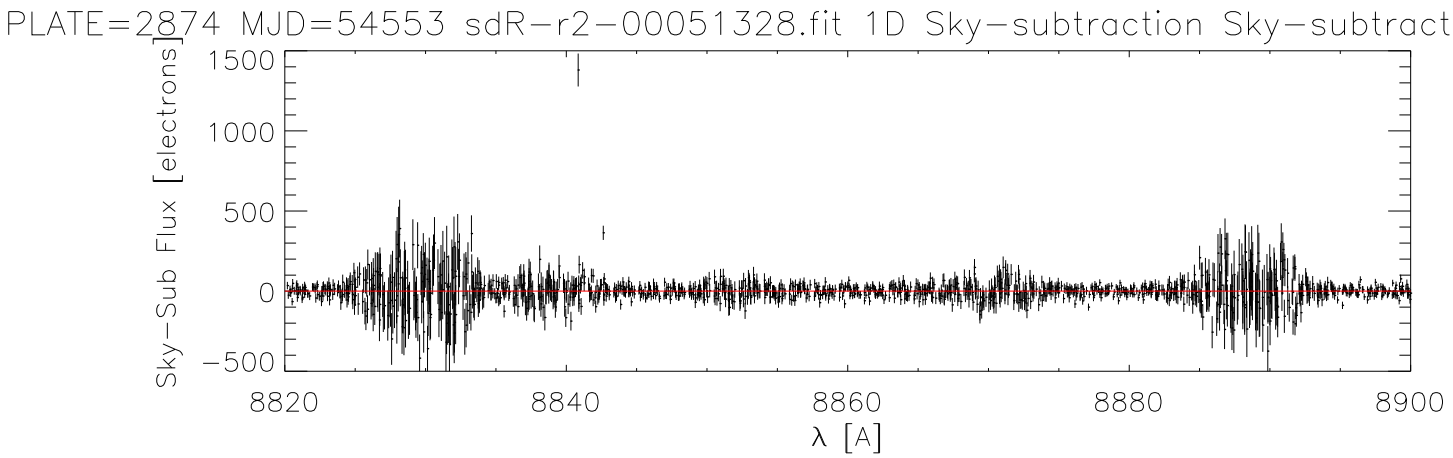

−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
sky shift, pixels
5000
6000
7000
8000
9000
10000

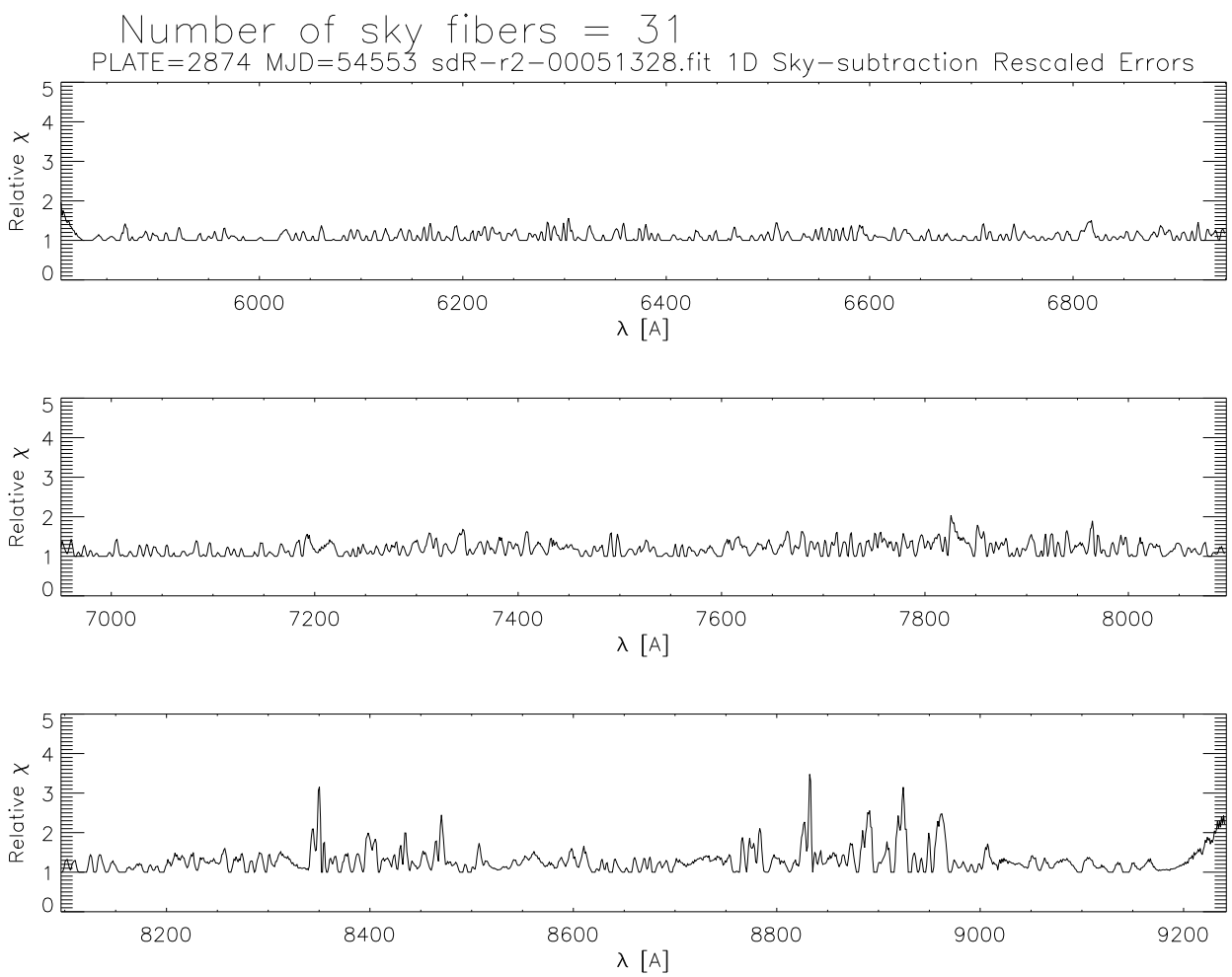

PLATE=2874 MJD=54553 Smooth superflat for sdR-r2-00051328.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

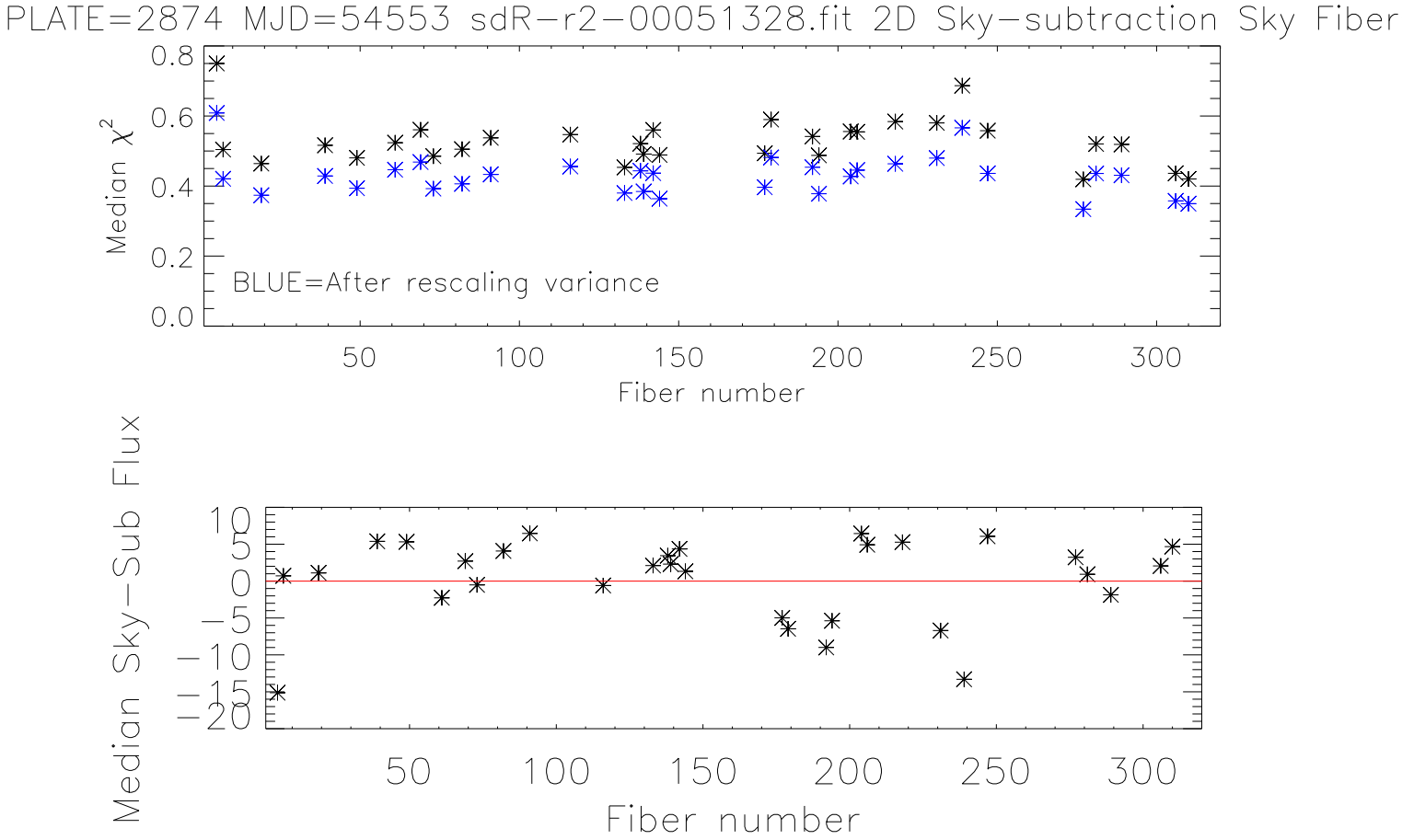
es= −0.0000

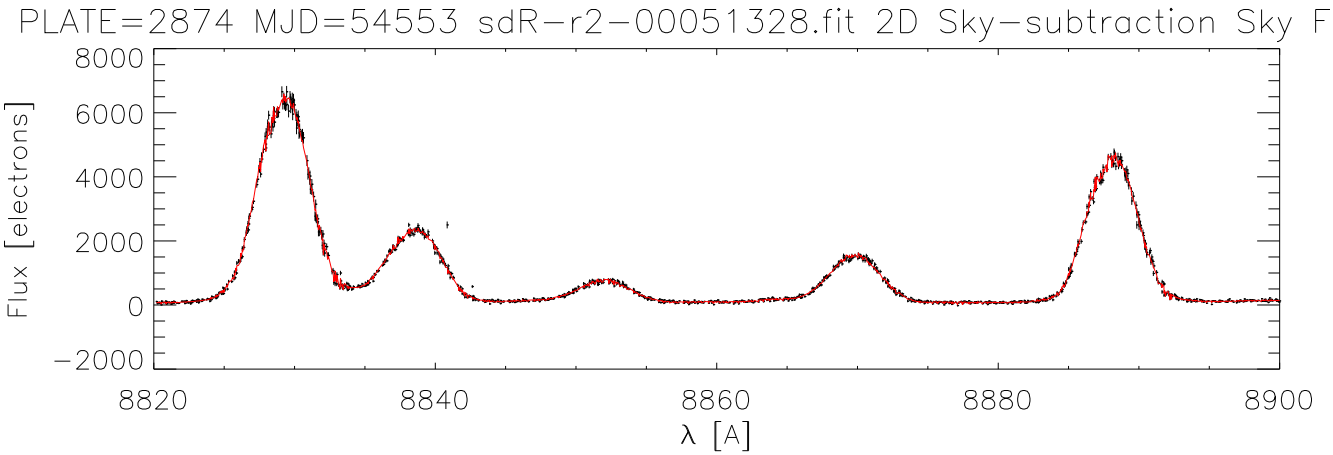

PLATE=2874 MJD=54553 sdR-r2-00051328.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

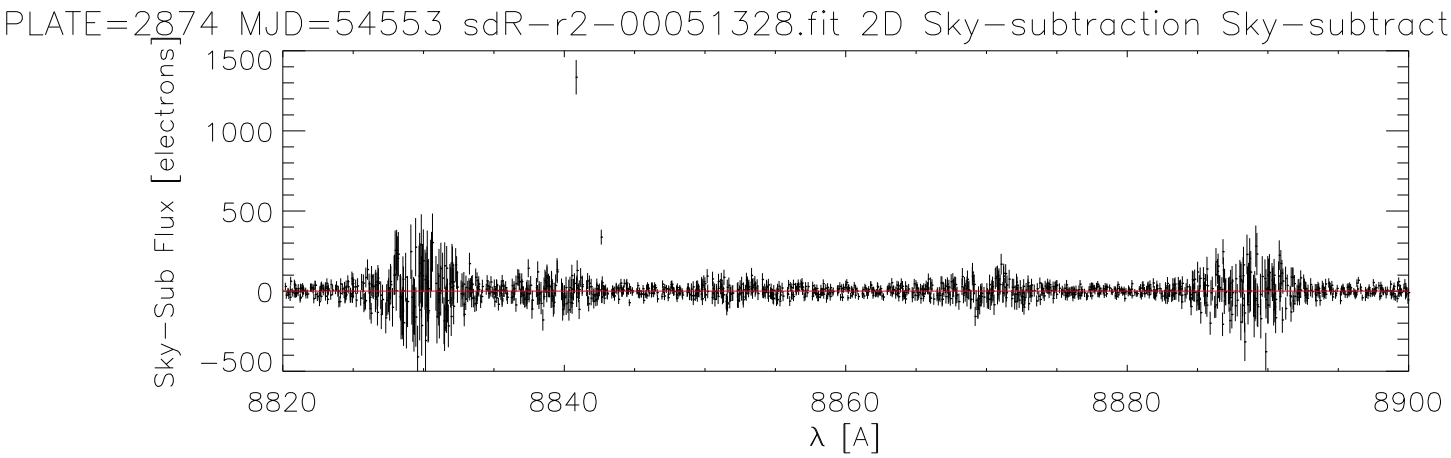

PLATE=2874 MJD=54553 sdR-r2-00051328.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

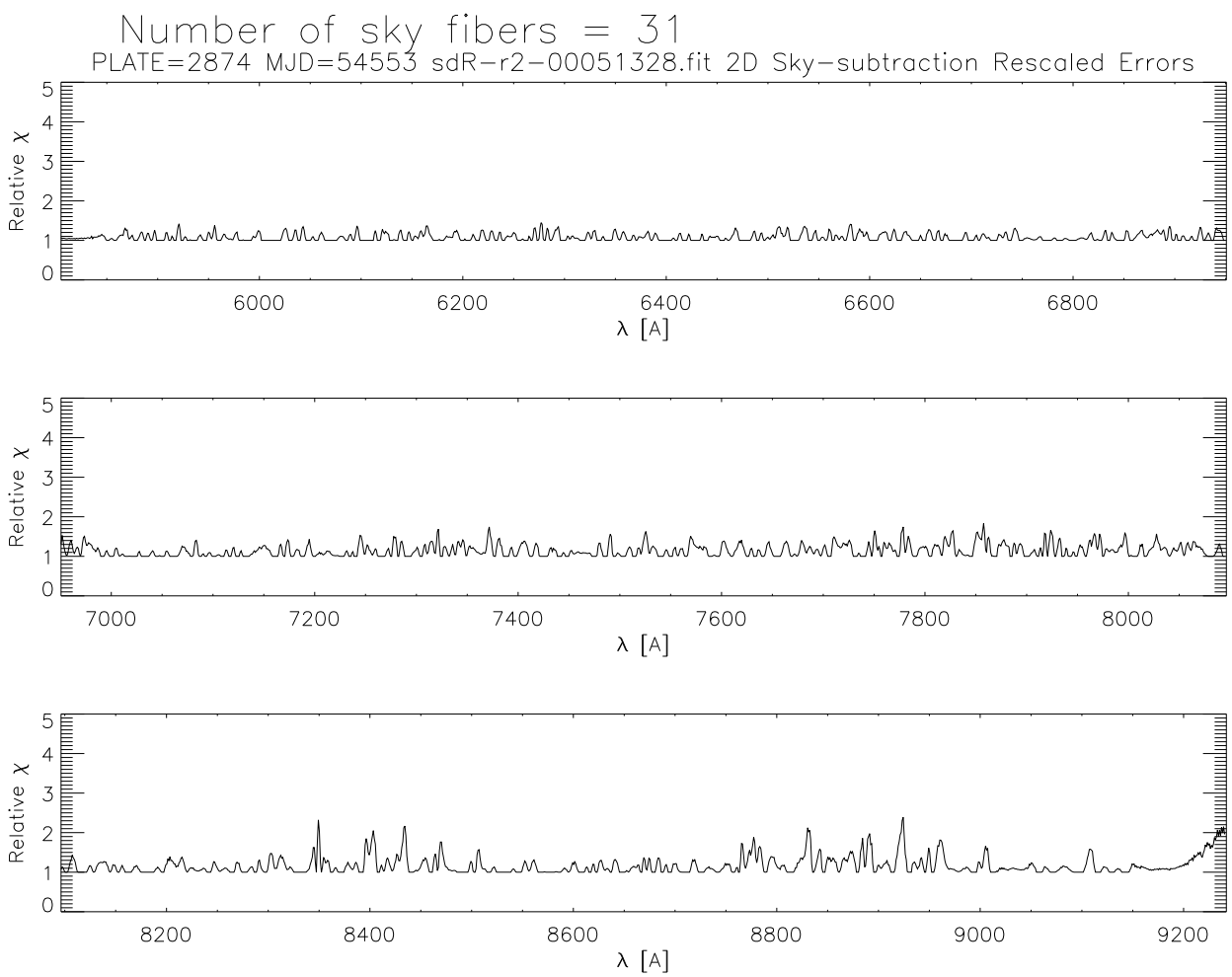

PLATE=2874 MJD=54553 sdR-r2-00051328.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

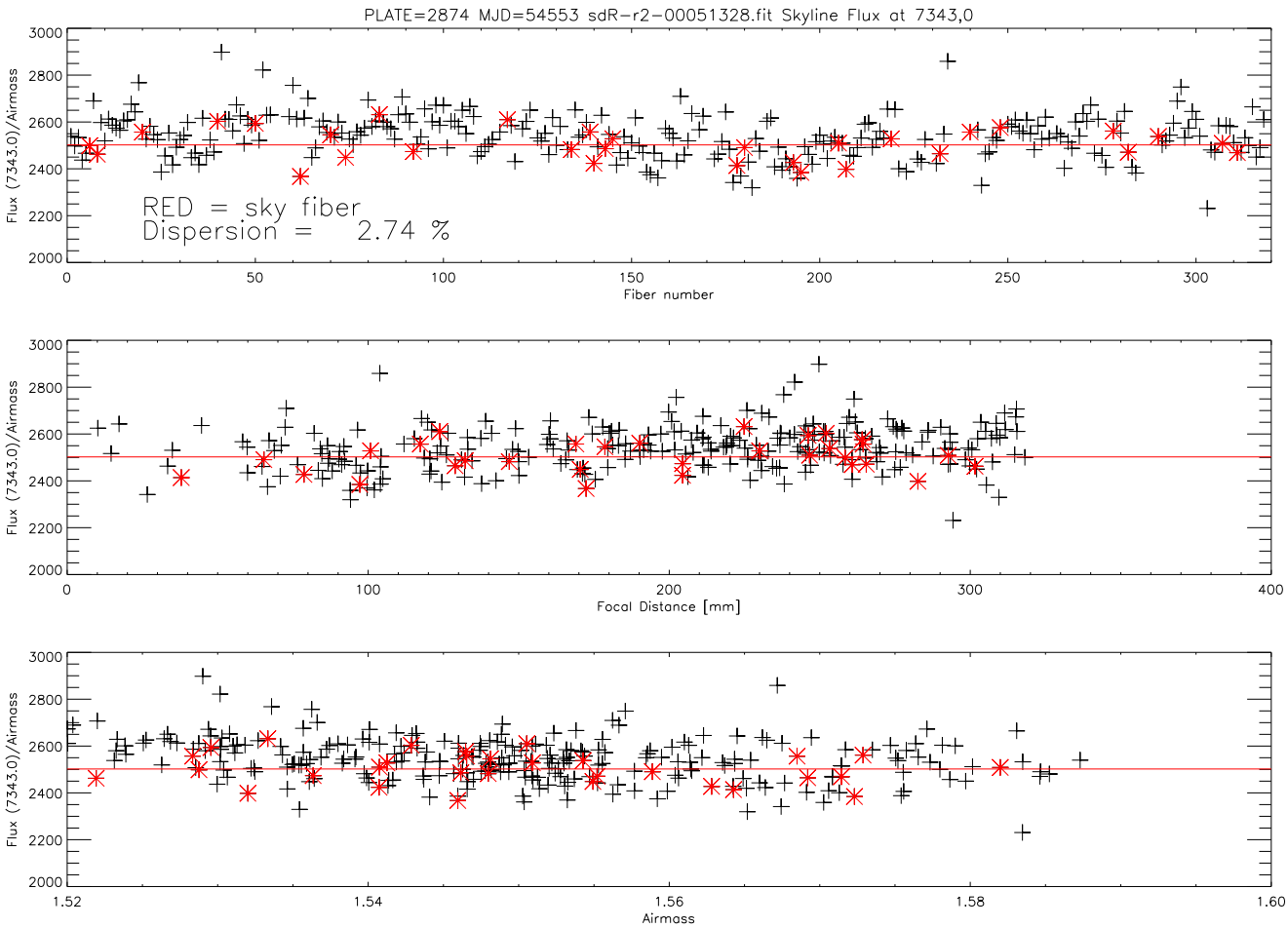

Number of sky fibers = 31
PLATE=2874 MJD=54553 sdR-r2-00051328.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

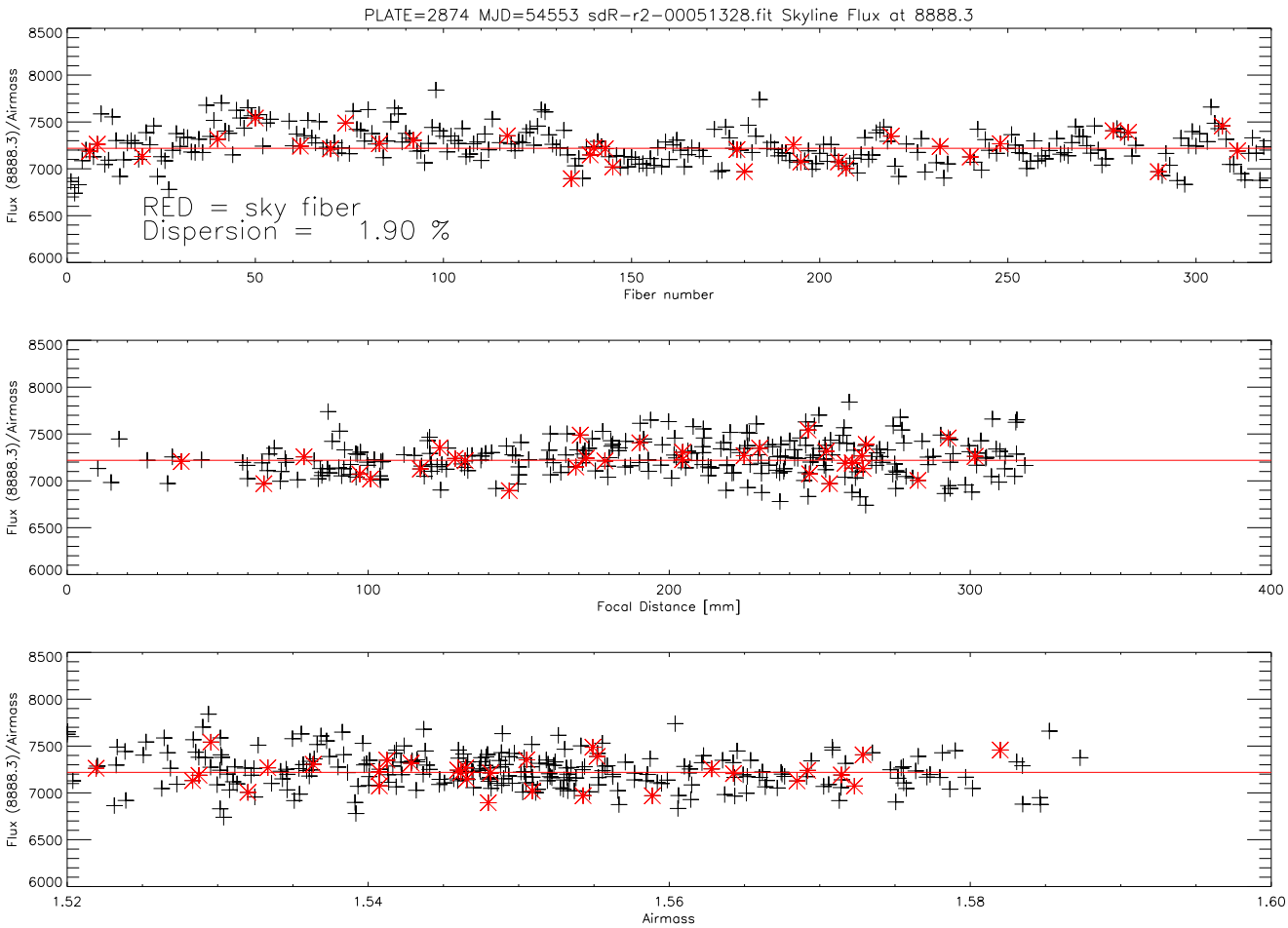

PLATE=2874 MJD=54553 sdR-r2-00051328.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
-20
50
100
150
200
250
300
Fiber number


PLATE=2874 MJD=54553 sdR-r2-00051328.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]


PLATE=2874 MJD=54553 sdR-r2-00051328.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 31
PLATE=2874 MJD=54553 sdR-r2-00051328.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=2874 MJD=54553 sdR-r2-00051328.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 2.74 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2874 MJD=54553 sdR-r2-00051328.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.90 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass