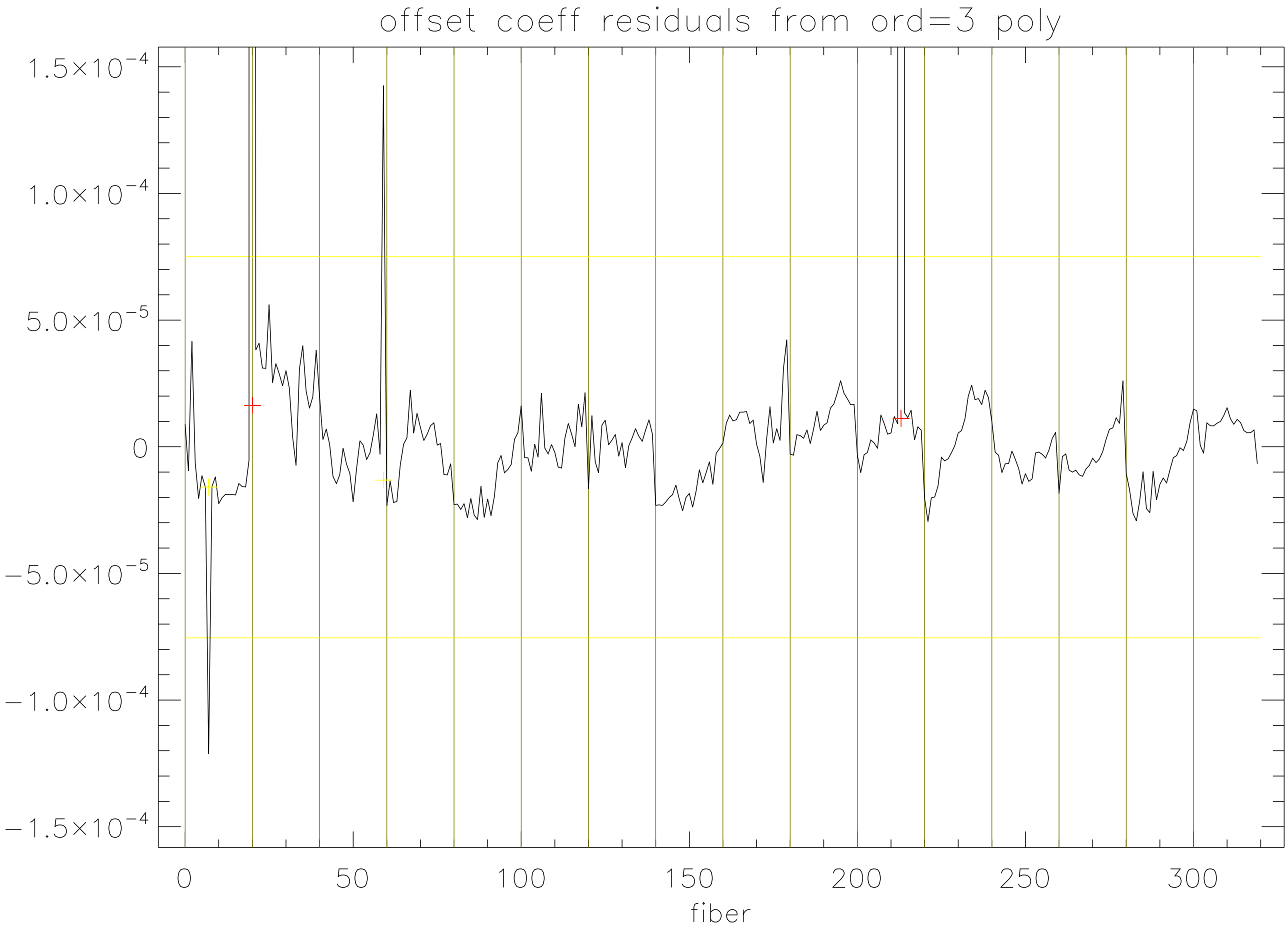
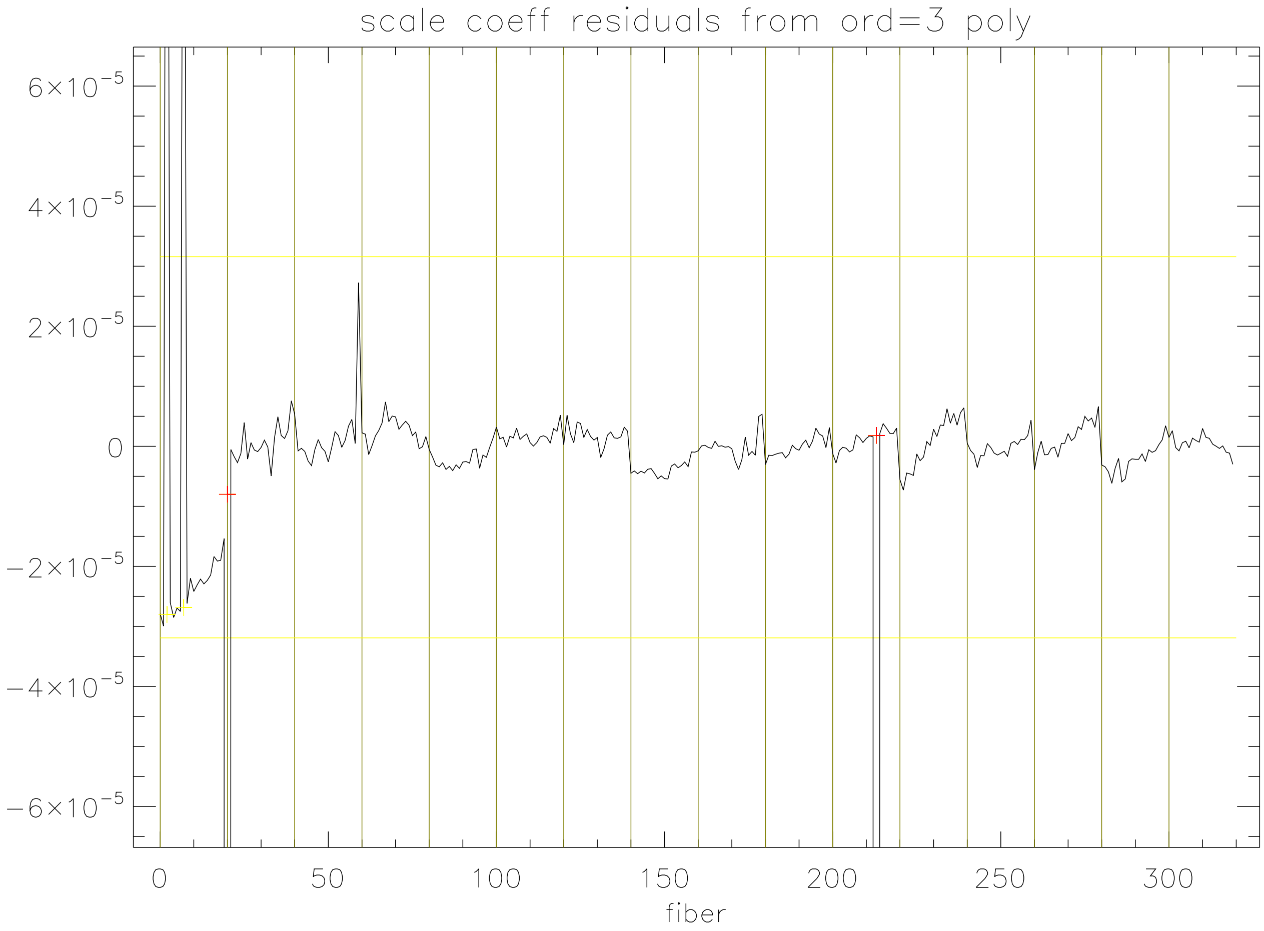
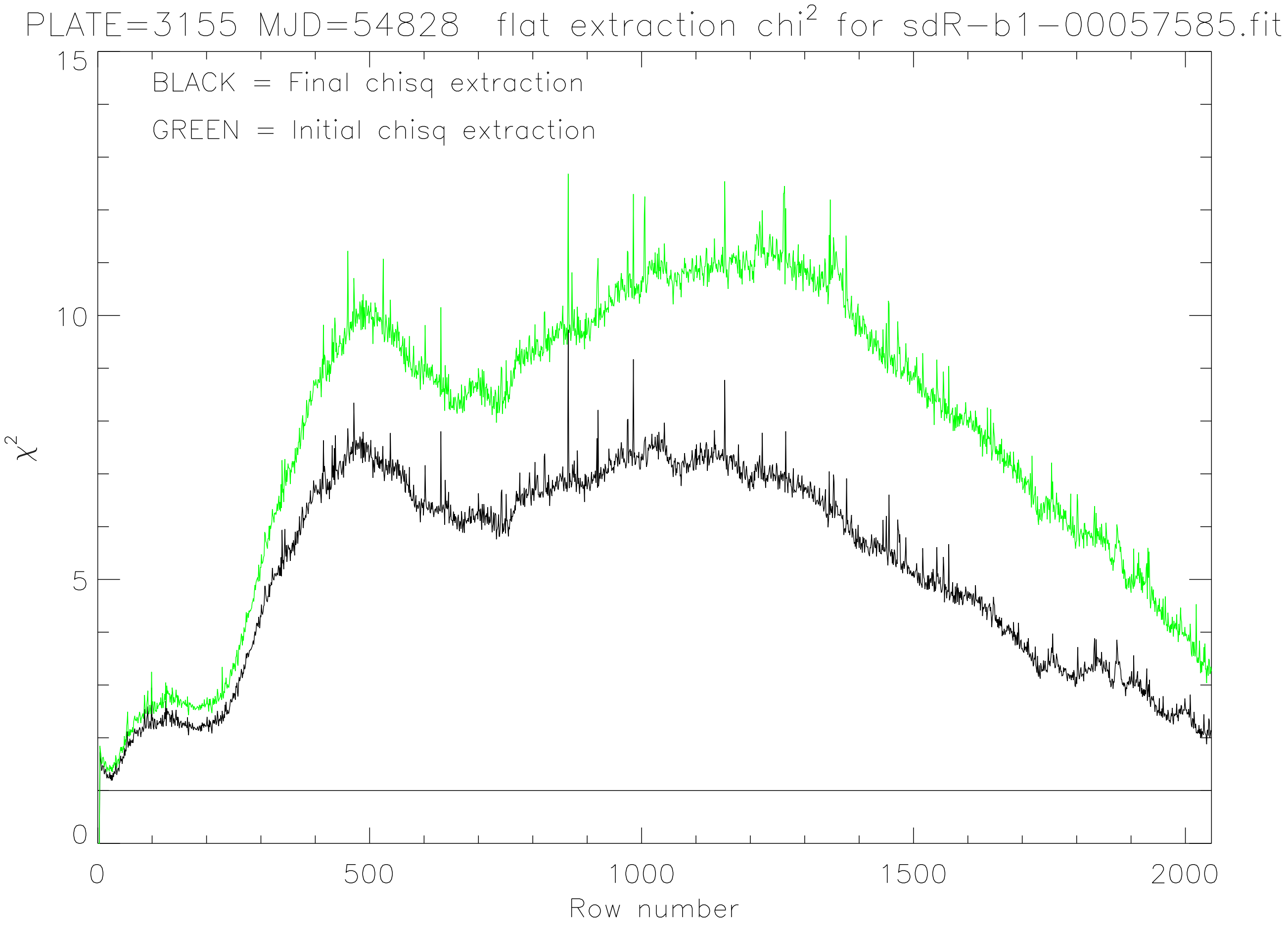
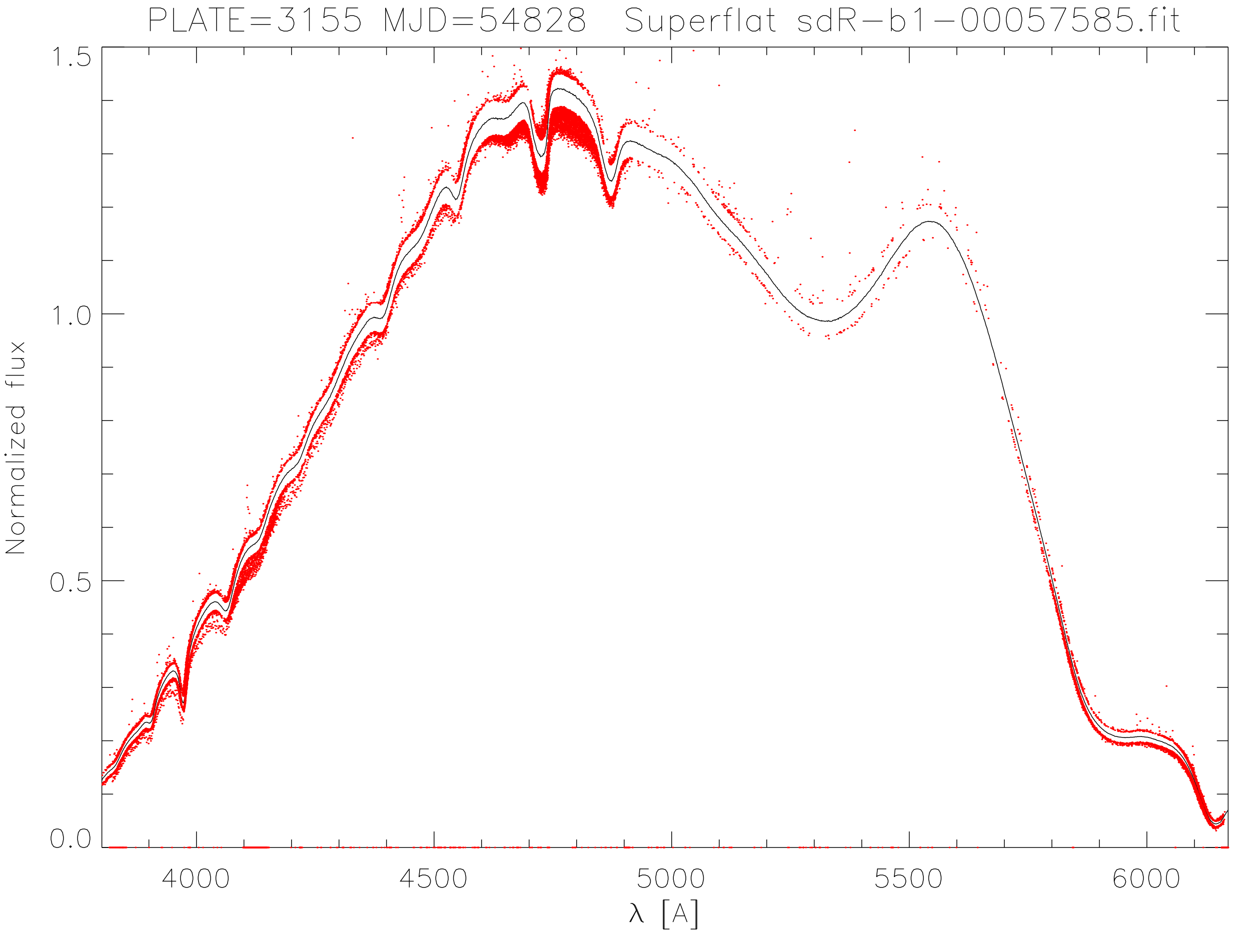

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

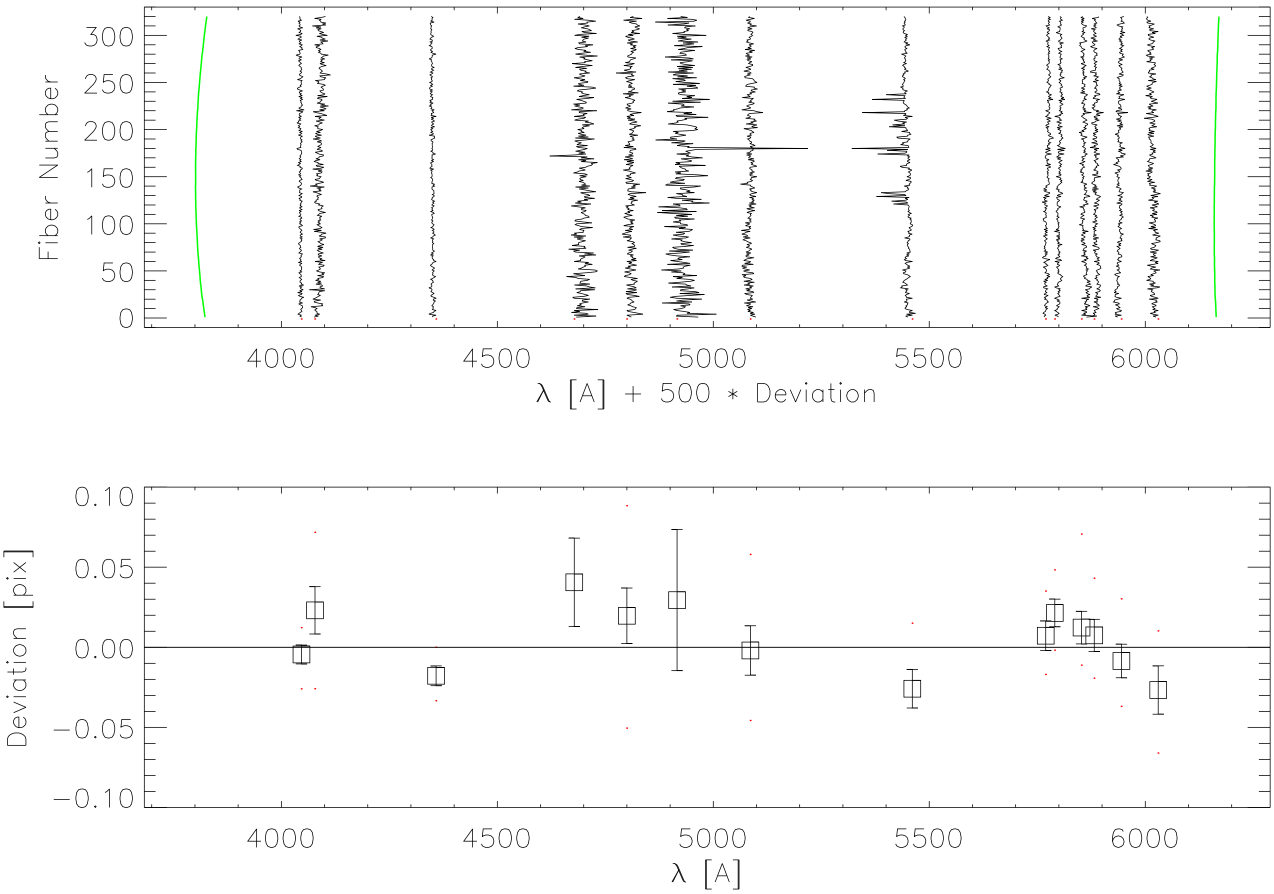

scale coeff residuals from ord=3 poly
6×10^{-5}
4×10^{-5}
2×10^{-5}
0
−2×10^{-5}
−4×10^{-5}
−6×10^{-5}
0
50
100
150
200
250
300
fiber



PLATE=3155 MJD=54828 flat extraction chi^2 for sdR-b1-00057585.fit

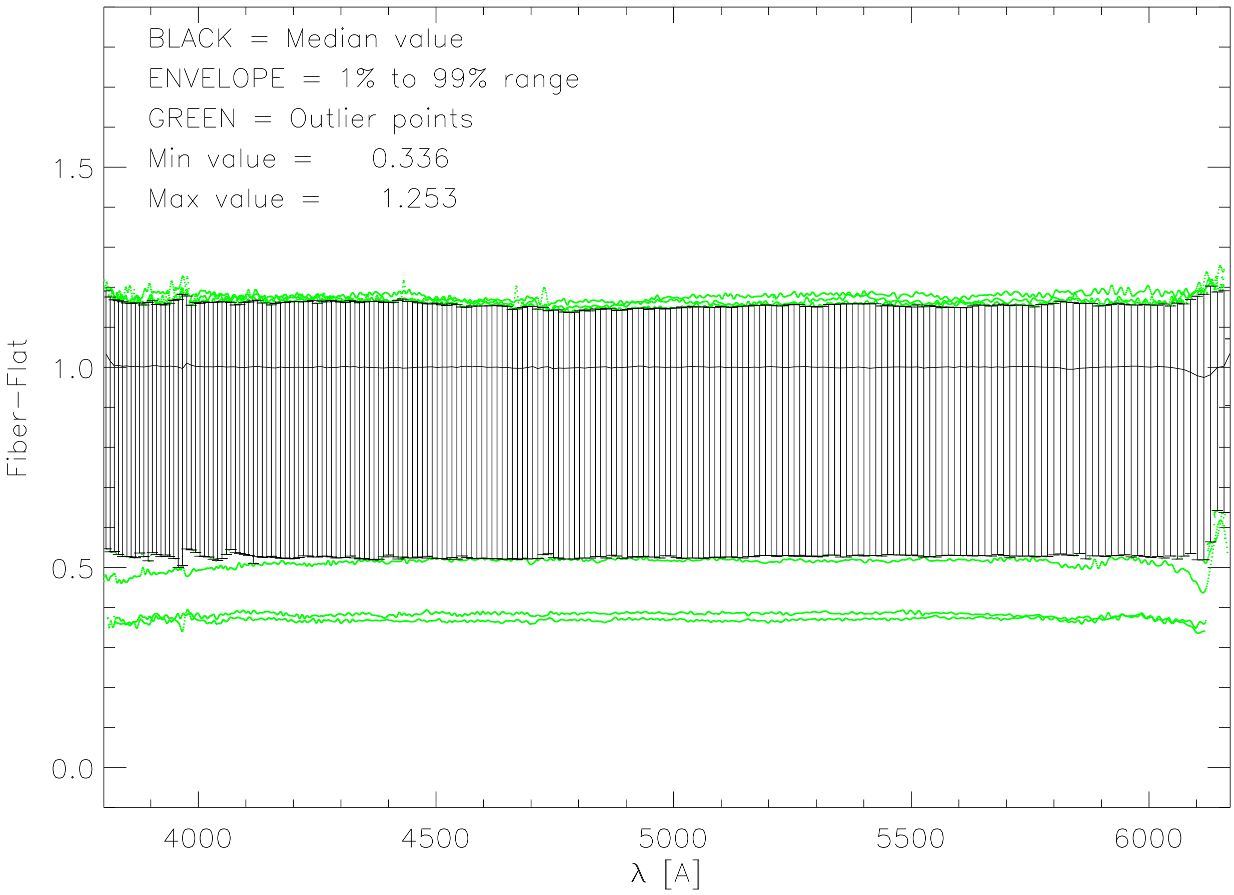

PLATE=3155 MJD=54828 Superflat sdR-b1-00057585.fit
Normalized flux
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000
λ [A]

PLATE=3155 MJD=54828 Arcline Fit for sdR-b1-00057586.fit



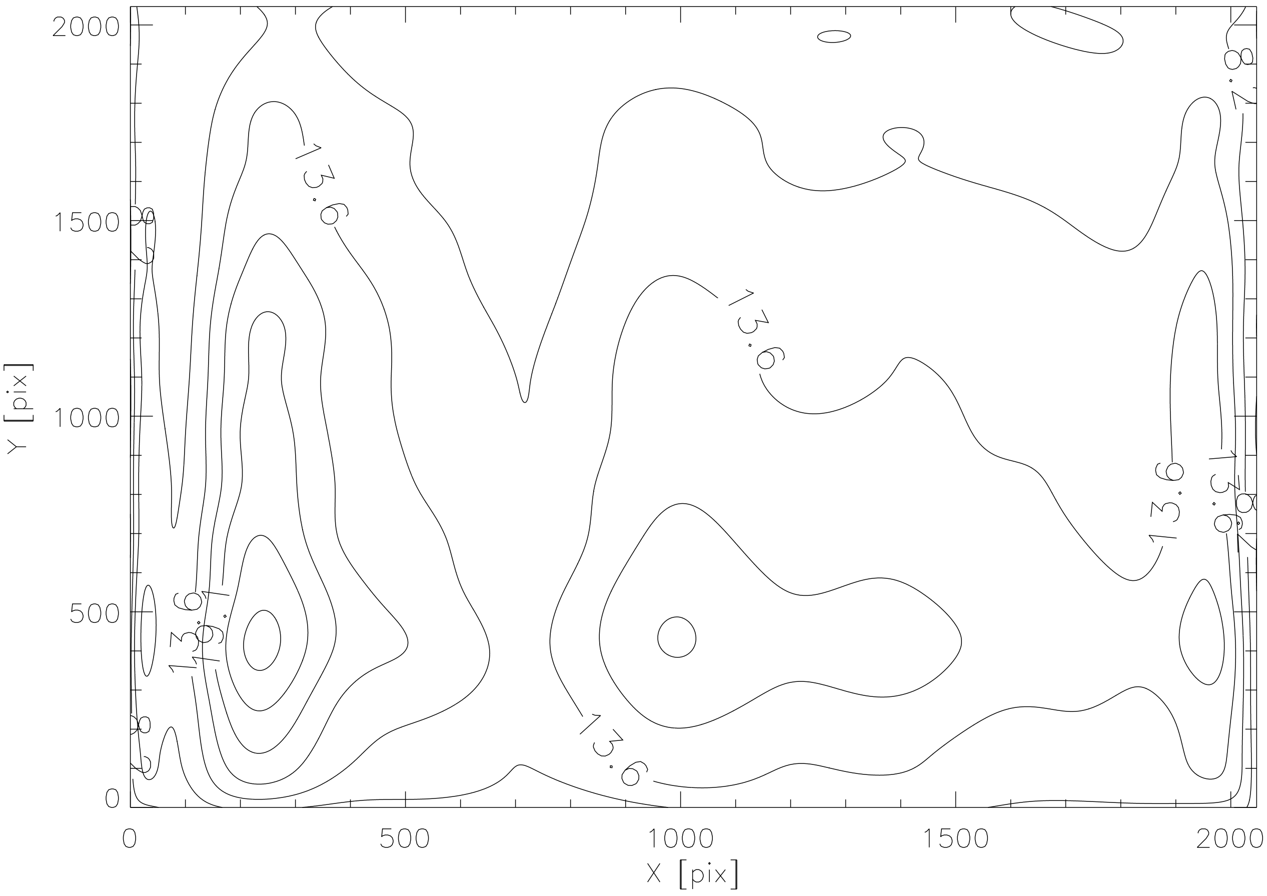
Tue Mar 16 04:13:19 2010

PLATE=3155 MJD=54828 Fiber-Flats for sdR-b1-00057585.fit

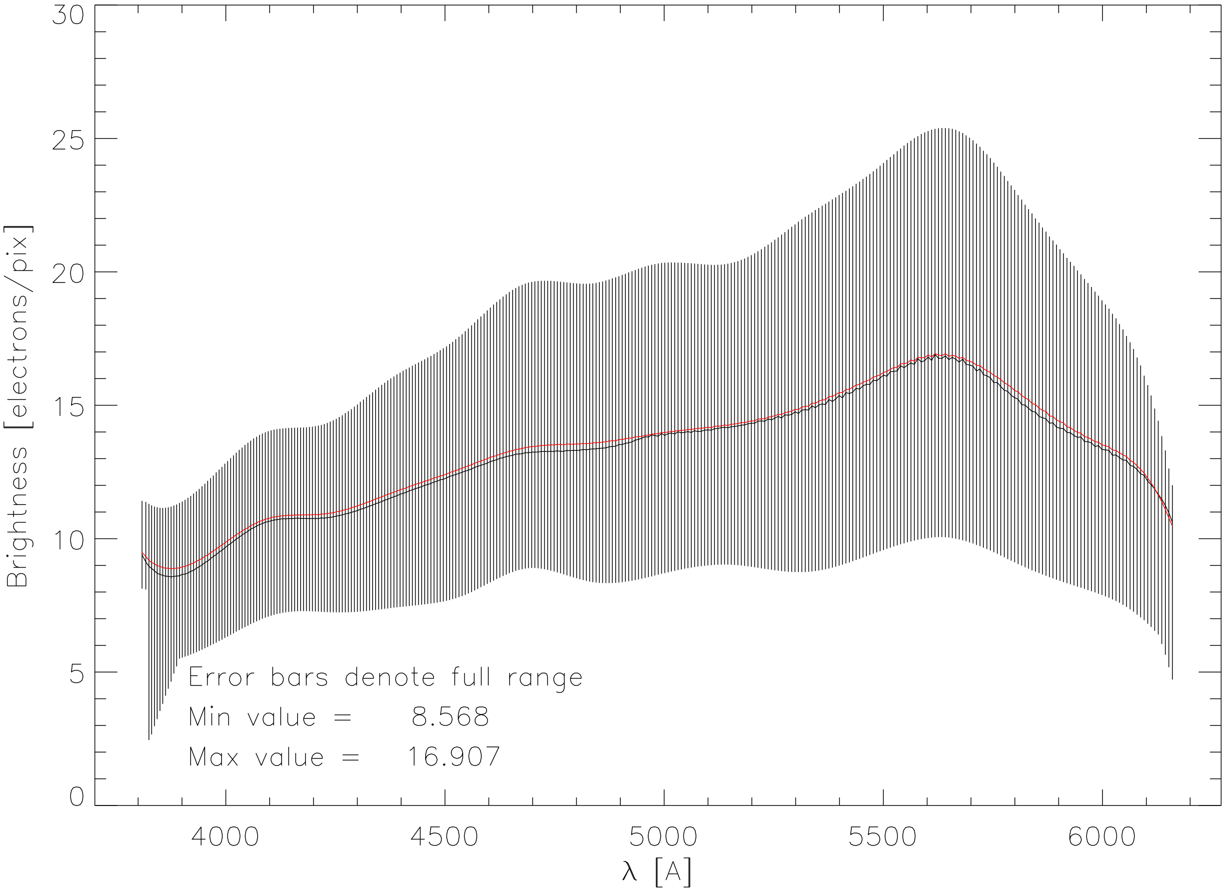


Tue Mar 16 04:13:22 2010

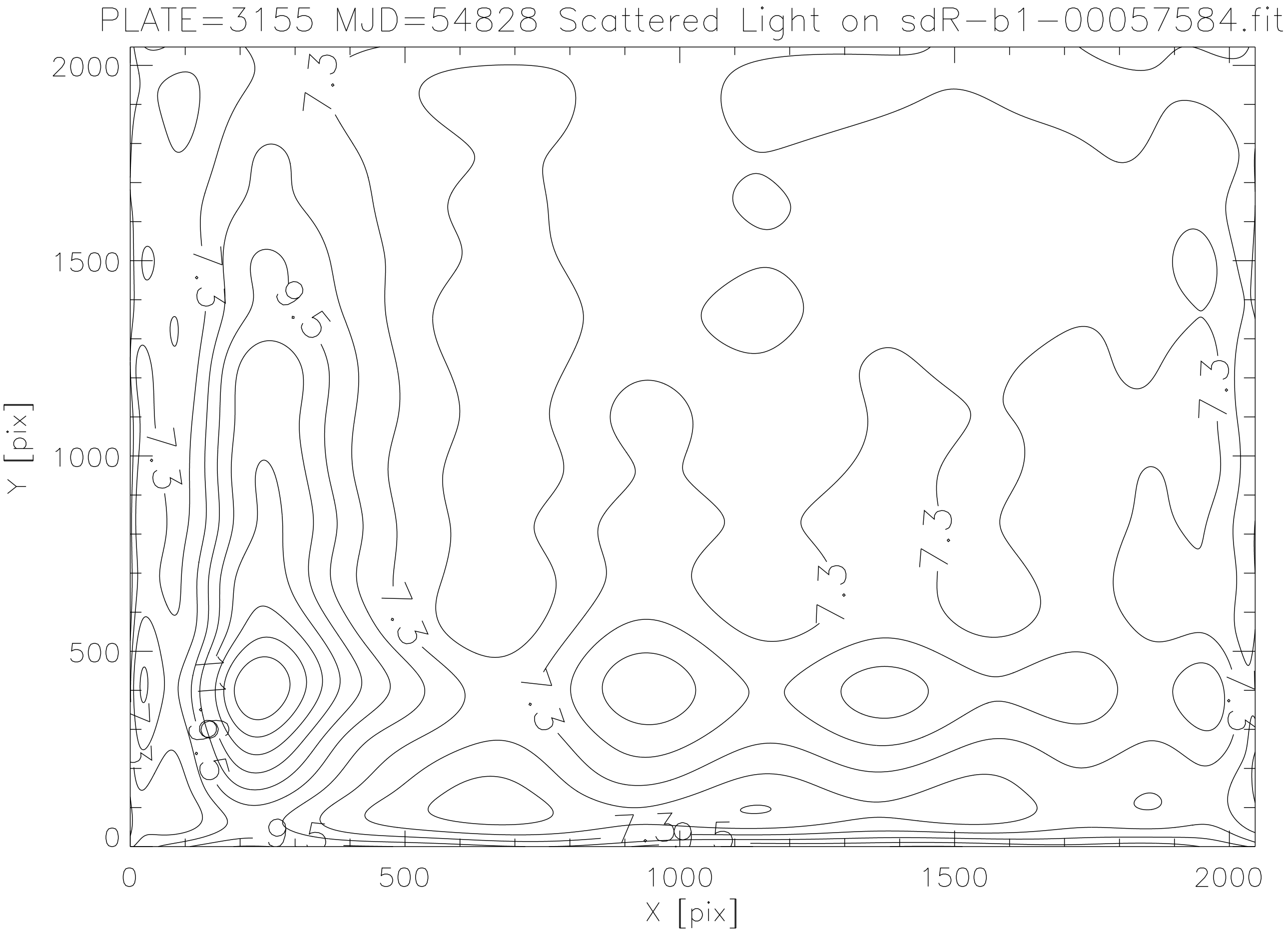
PLATE=3155 MJD=54828 Scattered Light before halo removal on sdR-b1-00057584.f

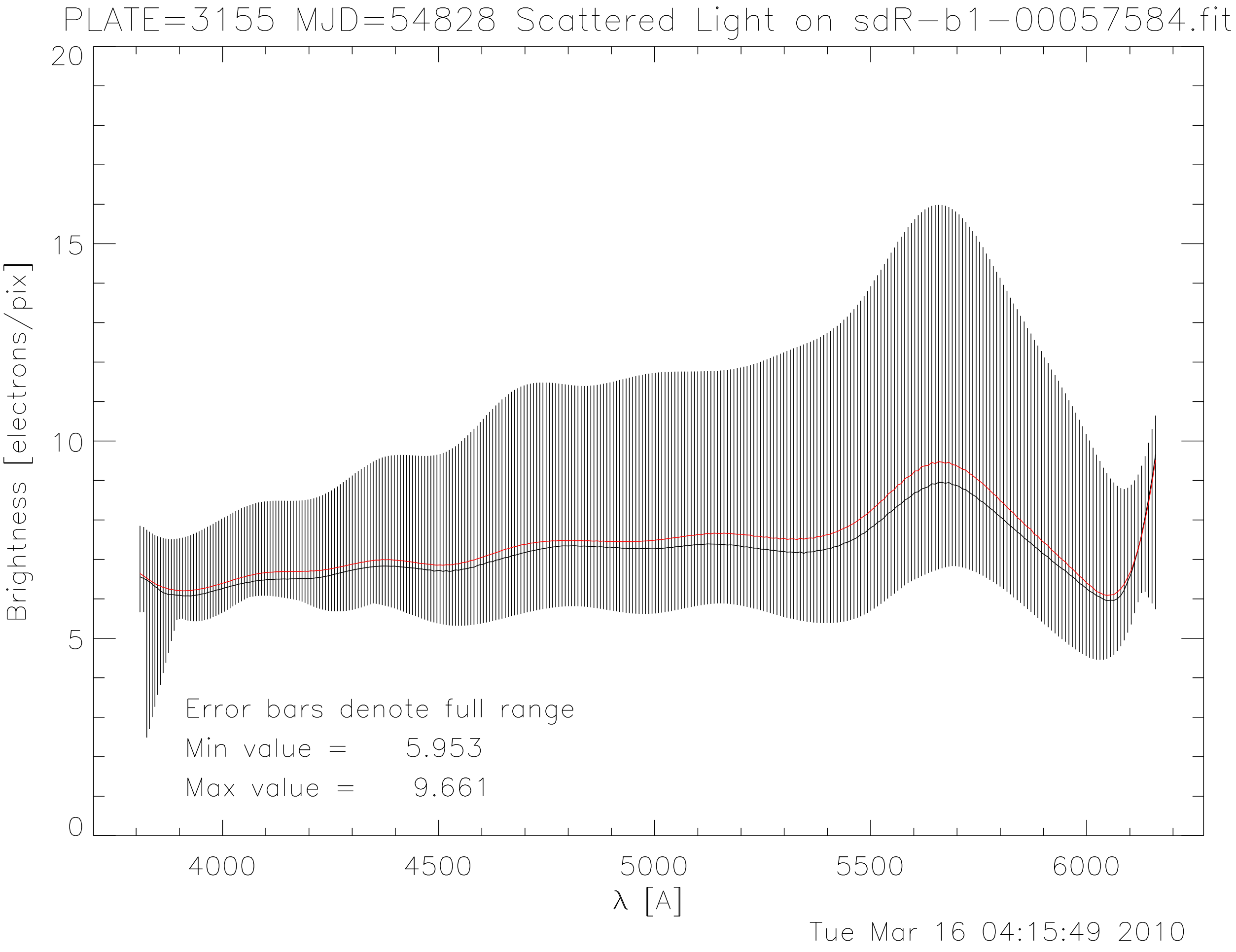


PLATE=3155 MJD=54828 Scattered Light before halo removal on sdR-b1-00057584.f

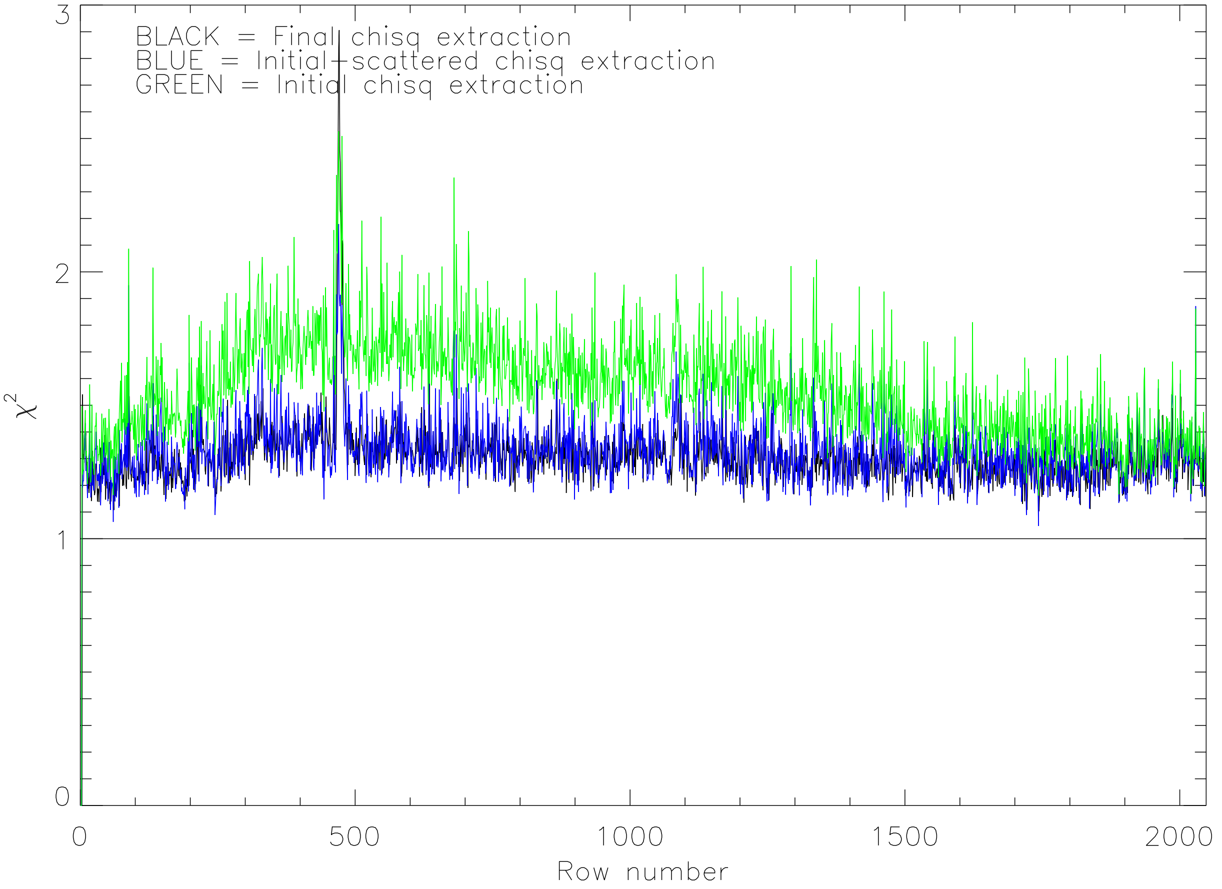


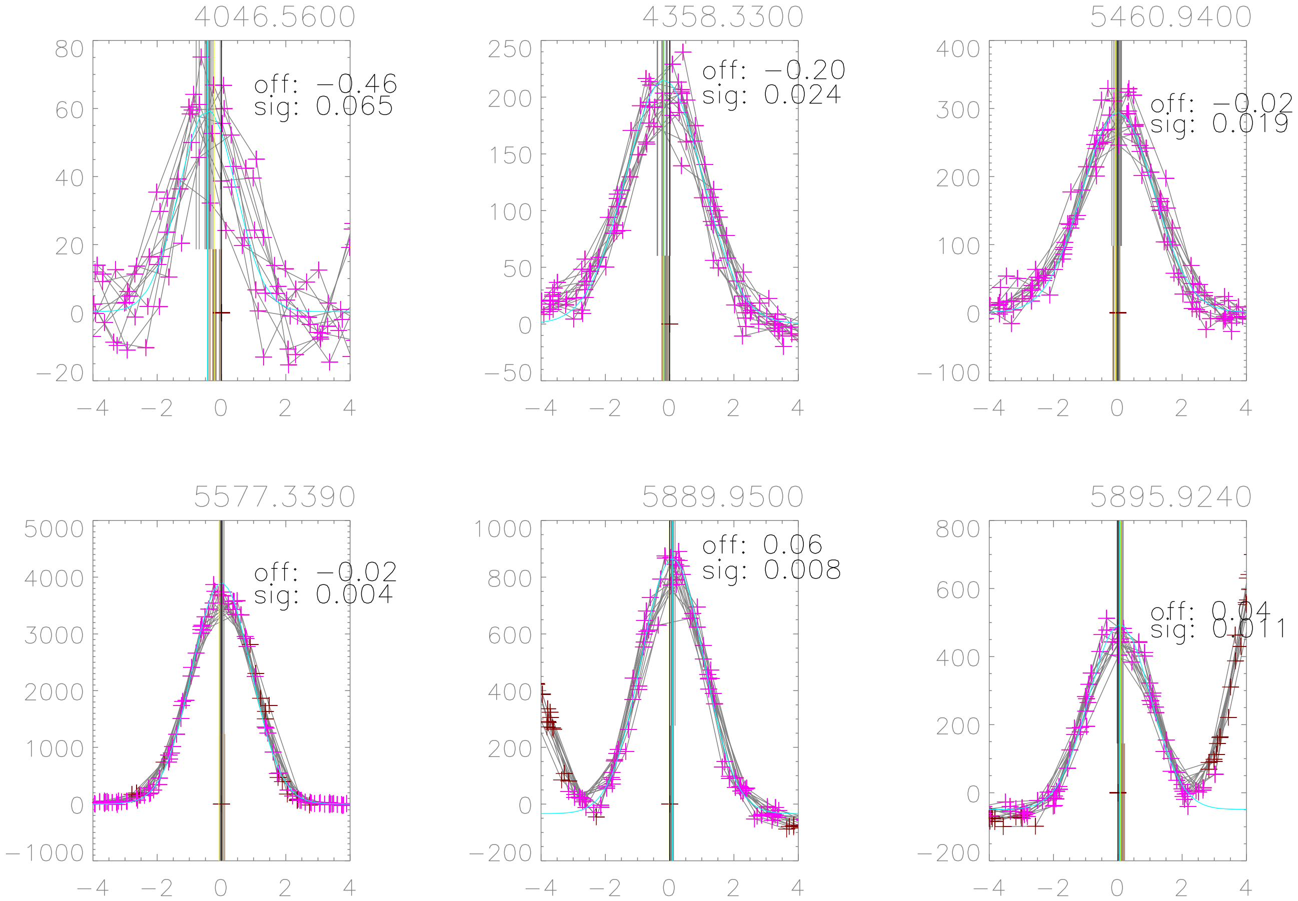
Tue Mar 16 04:13:56 2010

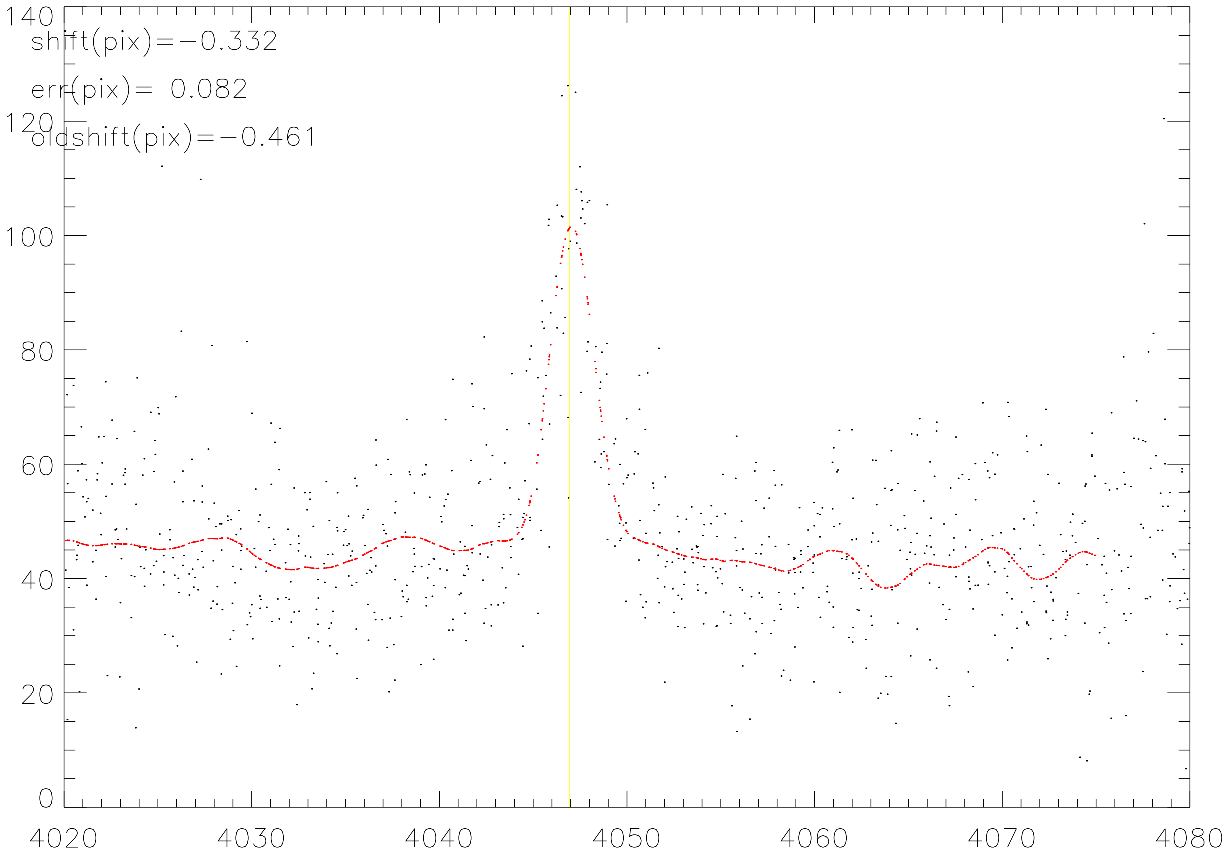

PLATE=3155 MJD=54828 Scattered Light on sdR-b1-00057584.fit

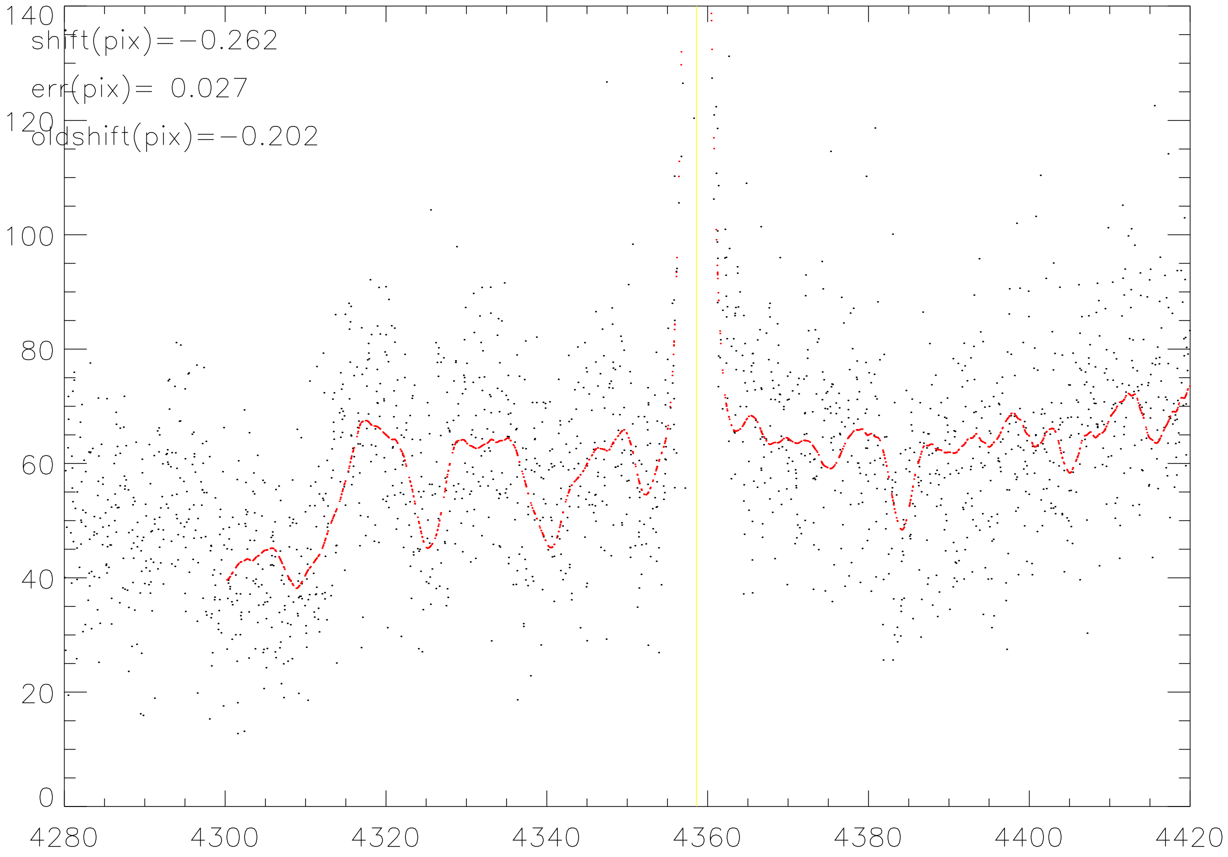

PLATE=3155 MJD=54828 Scattered Light on sdR-b1-00057584.fit
Brightness [electrons/pix]
0
5
10
15
20
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.953
Max value = 9.661
Tue Mar 16 04:15:49 2010

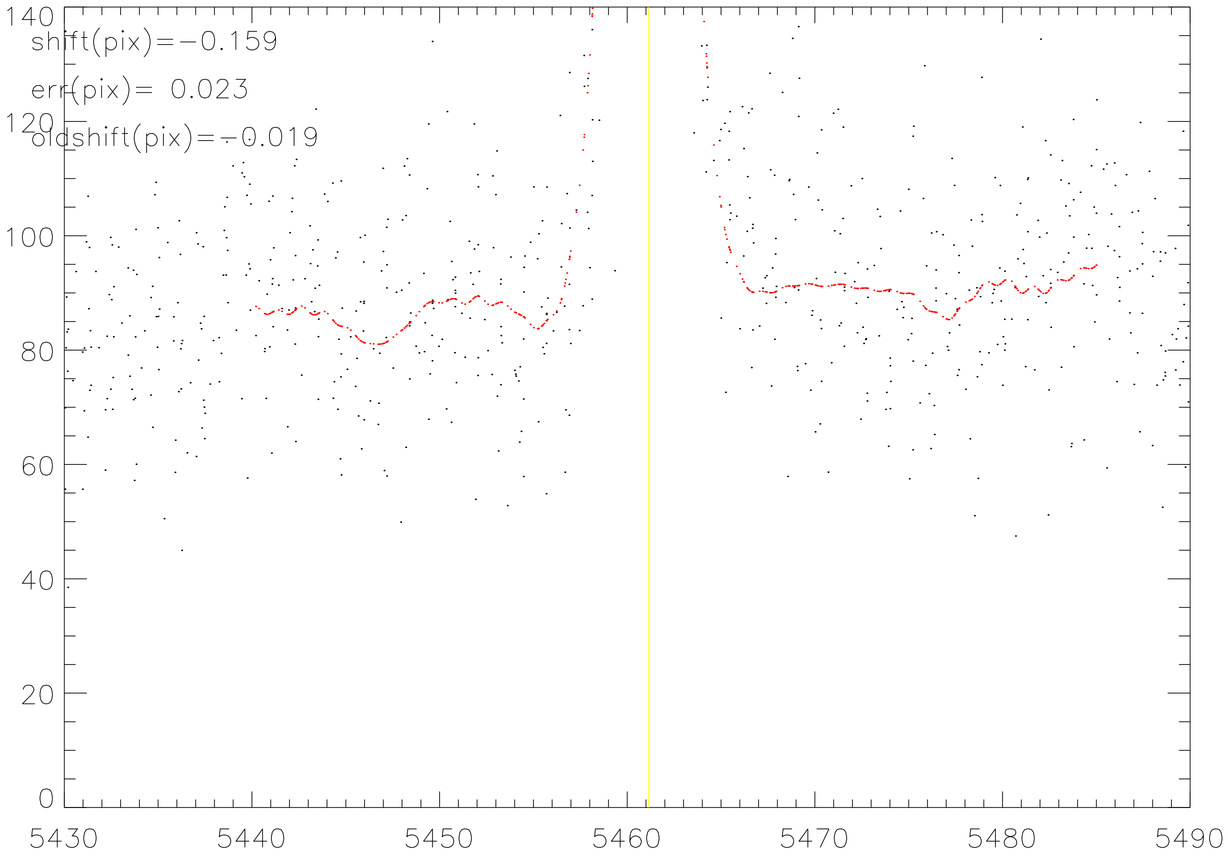
PLATE=3155 MJD=54828 Extraction chi^2 for sdR-b1-00057584.fit



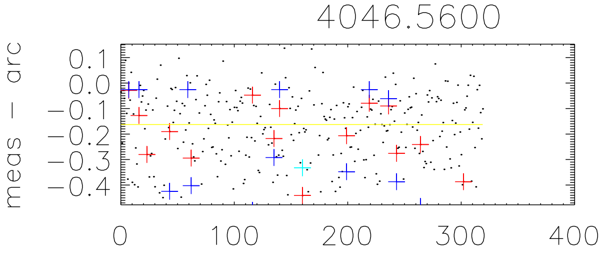

4046.5600
off: −0.46
sig: 0.065
4358.3300
off: −0.20
sig: 0.024
5460.9400
off: −0.02
sig: 0.019
5577.3390
off: −0.02
sig: 0.004
5889.9500
off: 0.06
sig: 0.008
5895.9240
off: 0.04
sig: 0.011
−20
0
20
40
60
80
−50
0
50
100
150
200
250
−100
0
100
200
300
400
−1000
0
1000
2000
3000
4000
5000
−200
0
200
400
600
800
1000
−200
0
200
400
600
800
−4
−2
0
2
4

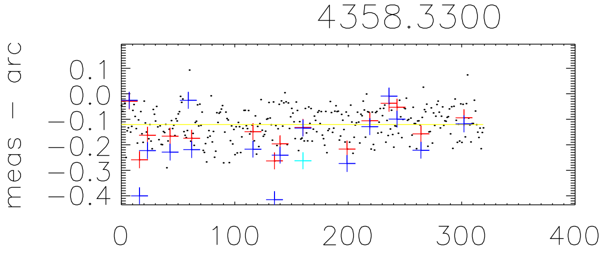

shift(pix)=−0.332
err(pix)= 0.082
oldshift(pix)=−0.461
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

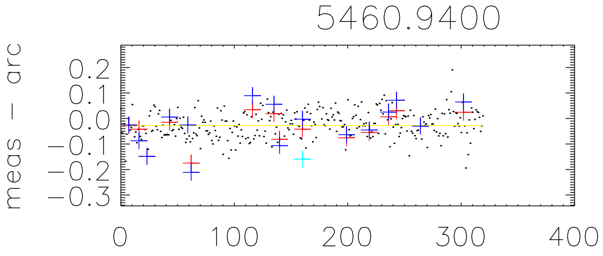

shift(pix)=−0.262
err(pix)= 0.027
oldshift(pix)=−0.202
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

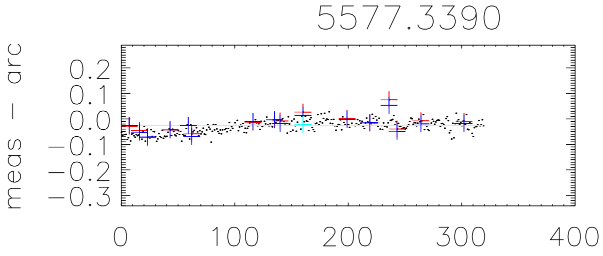


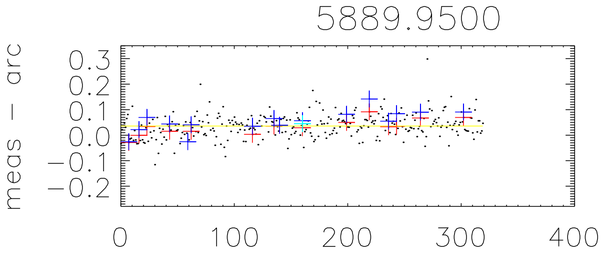
shift(pix)=−0.159
err(pix)= 0.023
oldshift(pix)=−0.019
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

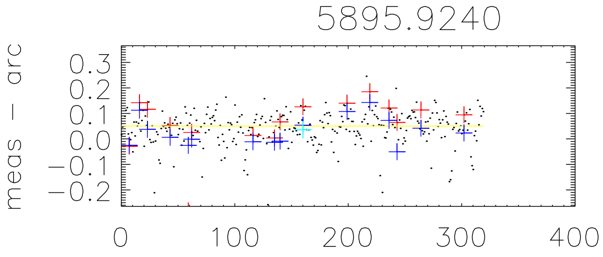

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

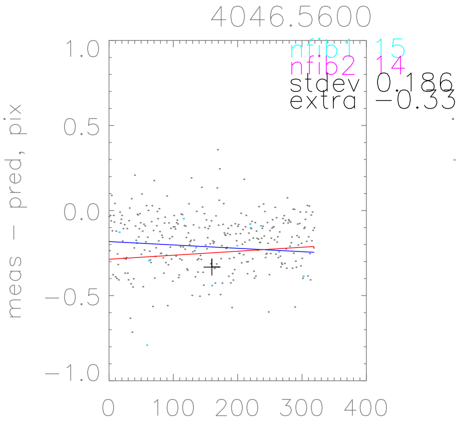

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

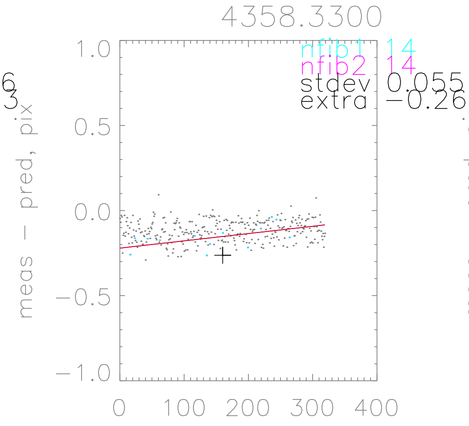

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

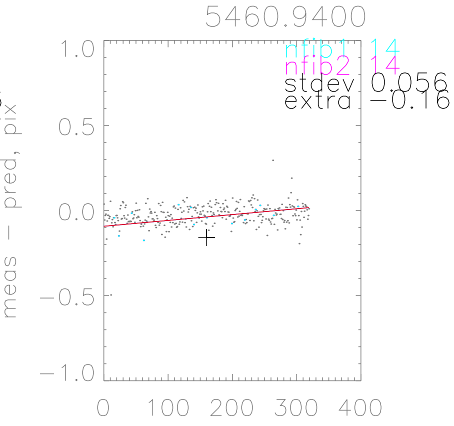

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

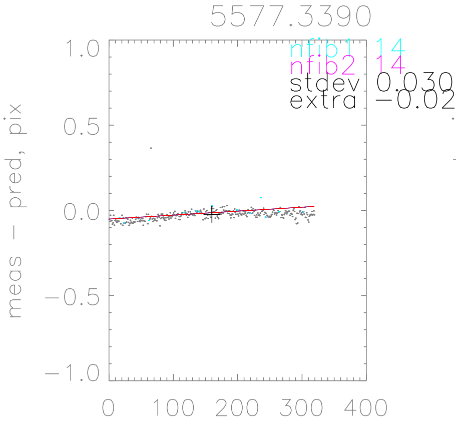

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

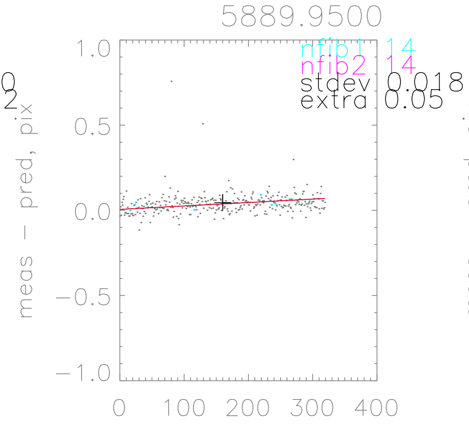

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

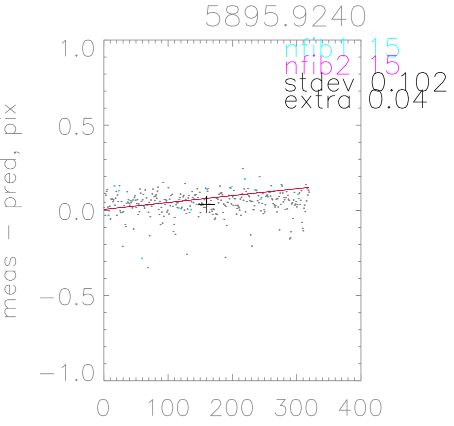

4046.5600
nfib1 15
nfib2 14
stdev 0.186
extra −0.33
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

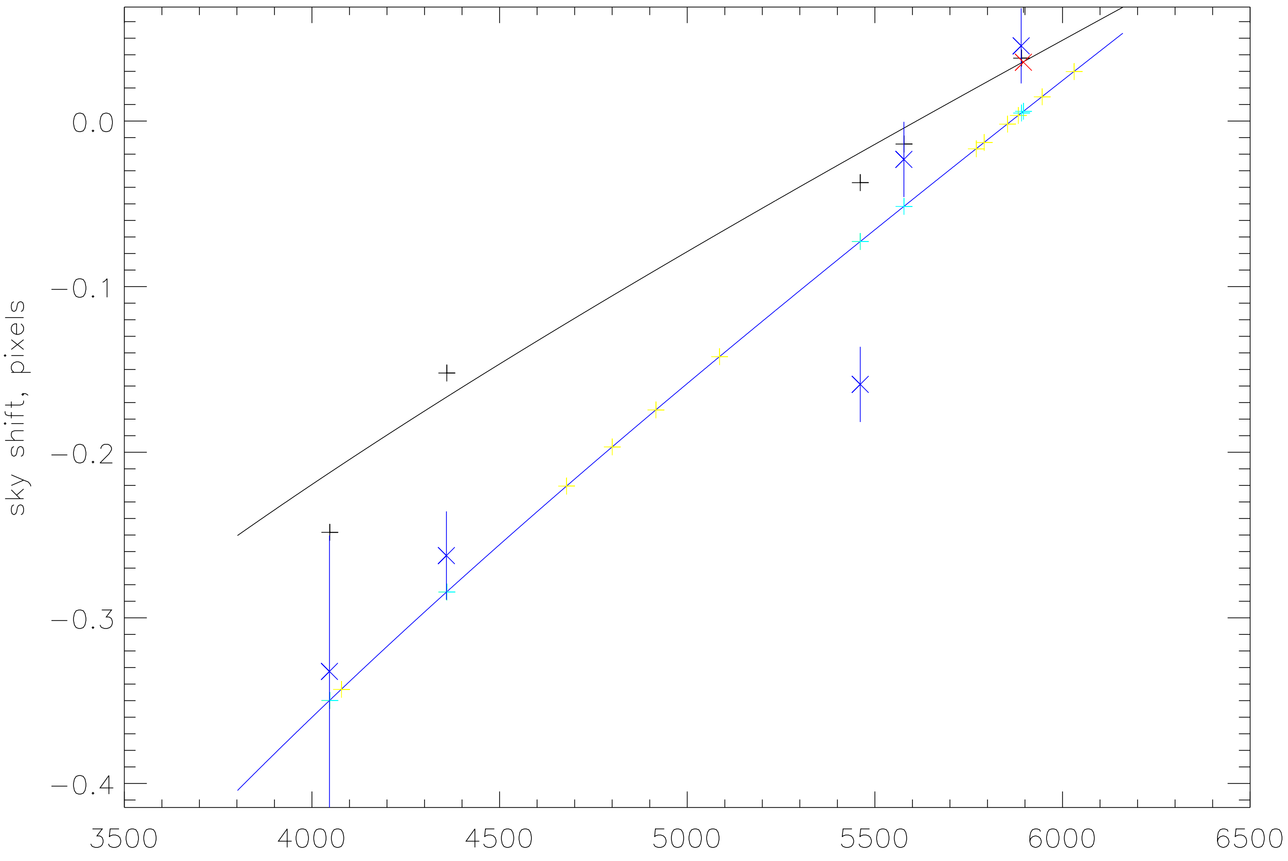

4358.3300
nfib1 14
nfib2 14
stdev 0.055
extra −0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

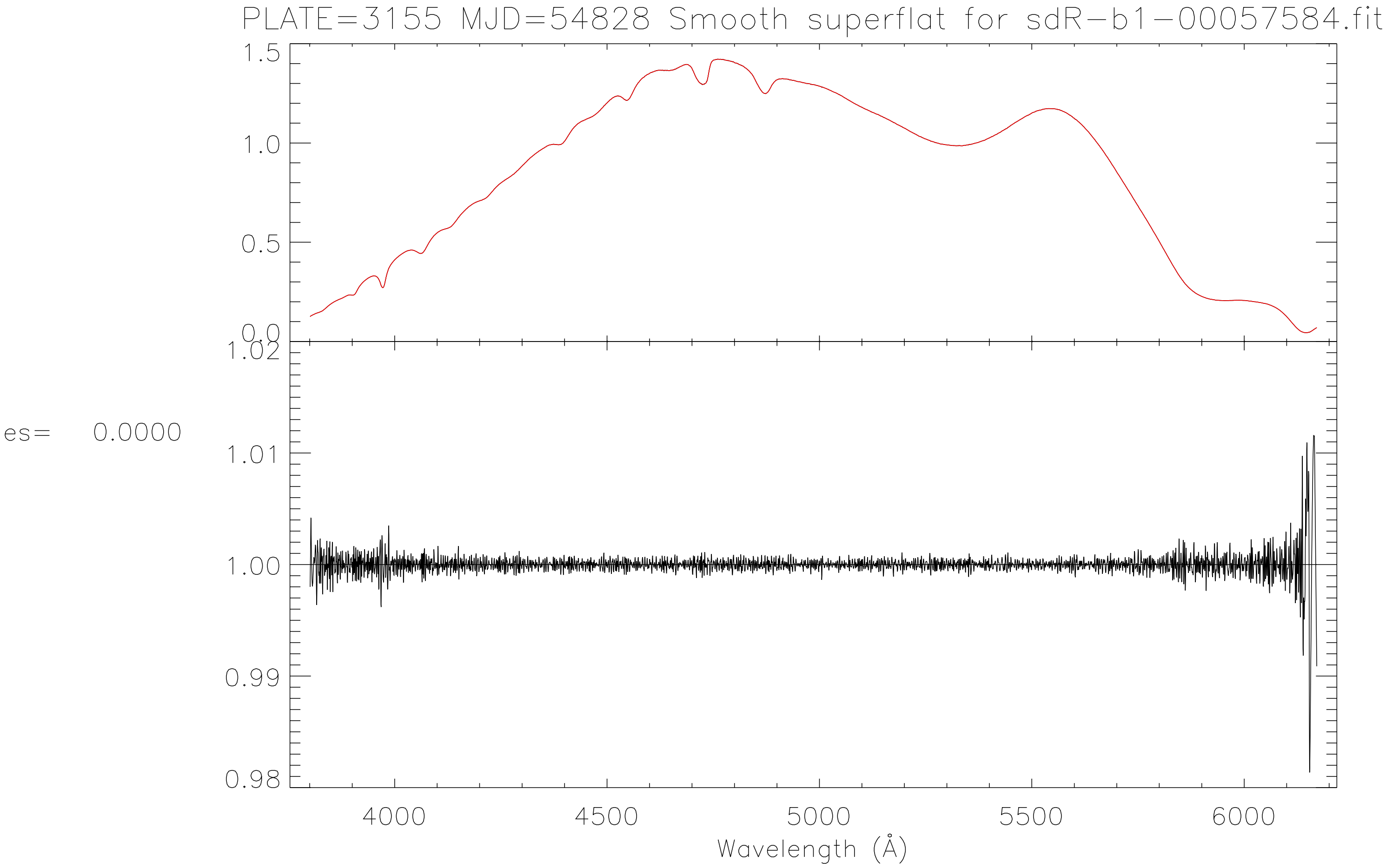

5460.9400
nfib1 14
nfib2 14
stdev 0.056
extra −0.16
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


5577.3390
nfib1 14
nfib2 14
stdev 0.030
extra −0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

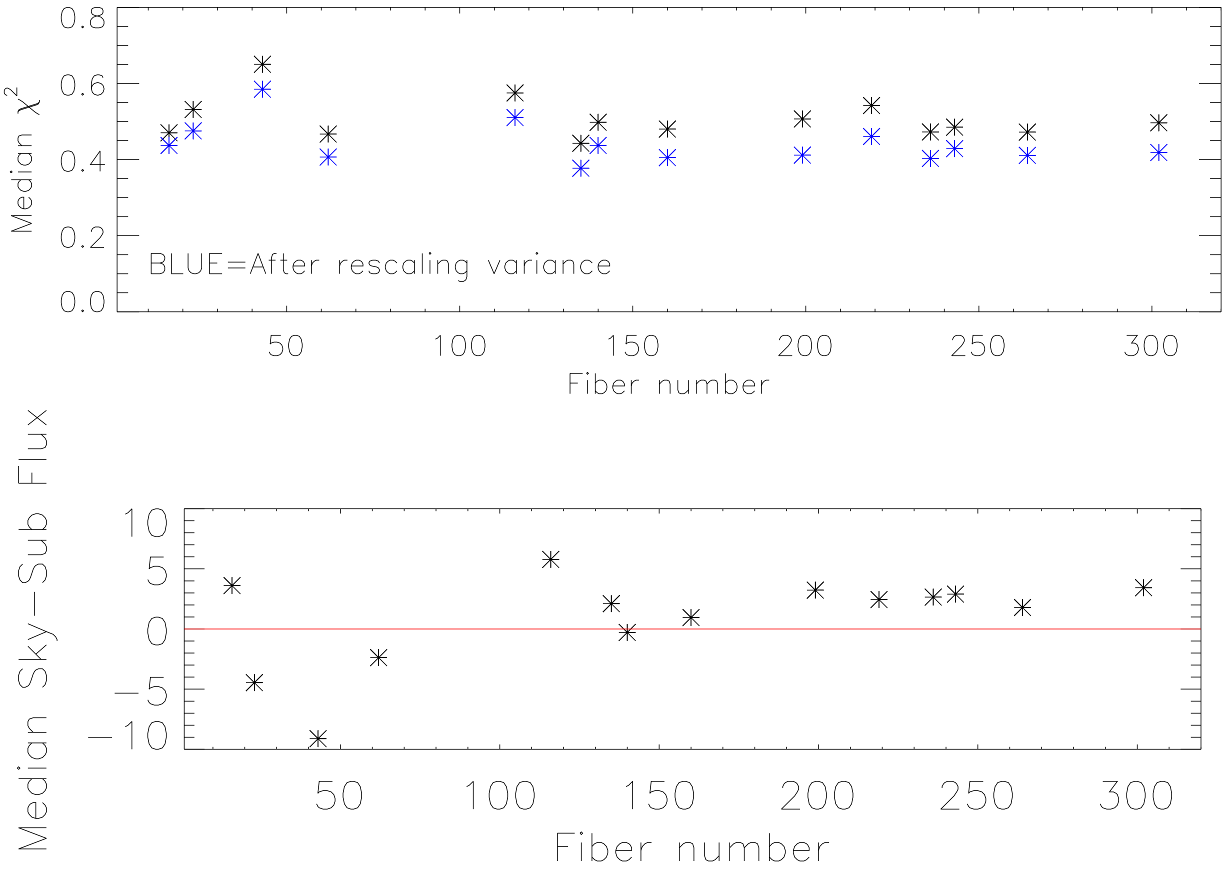

5889.9500
nfib1 14
nfib2 14
stdev 0.018
extra 0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

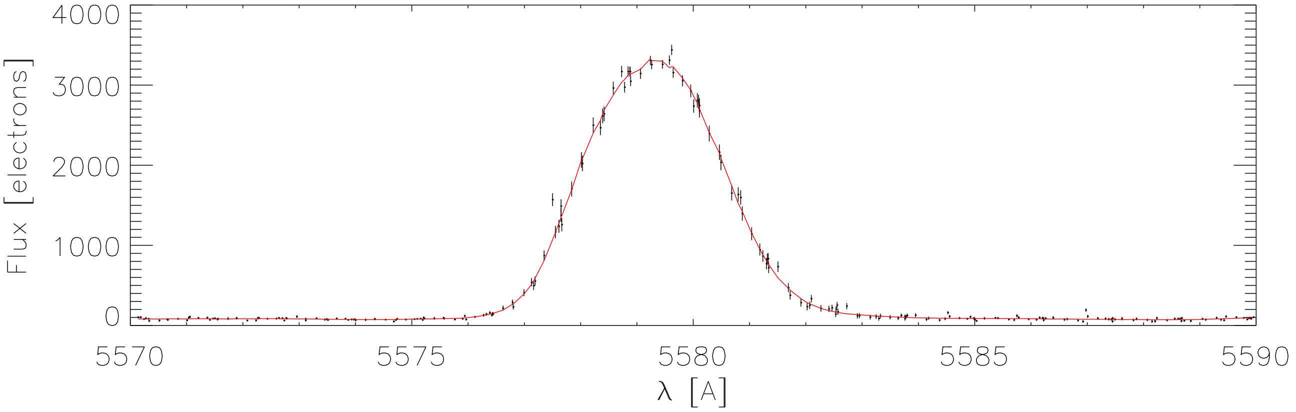

5895.9240
nfib1 15
nfib2 15
stdev 0.102
extra 0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

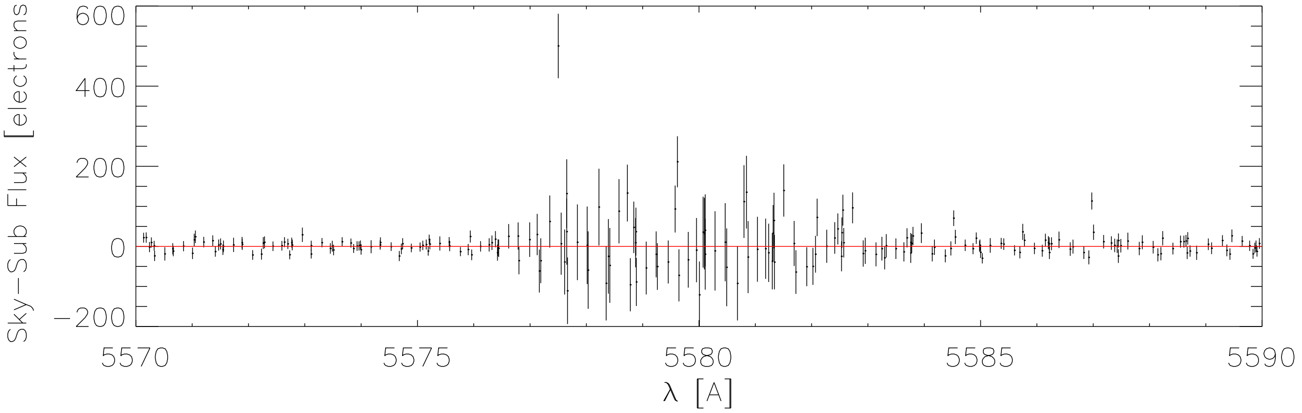

sky shift, pixels
0.0
−0.1
−0.2
−0.3
−0.4
3500
4000
4500
5000
5500
6000
6500

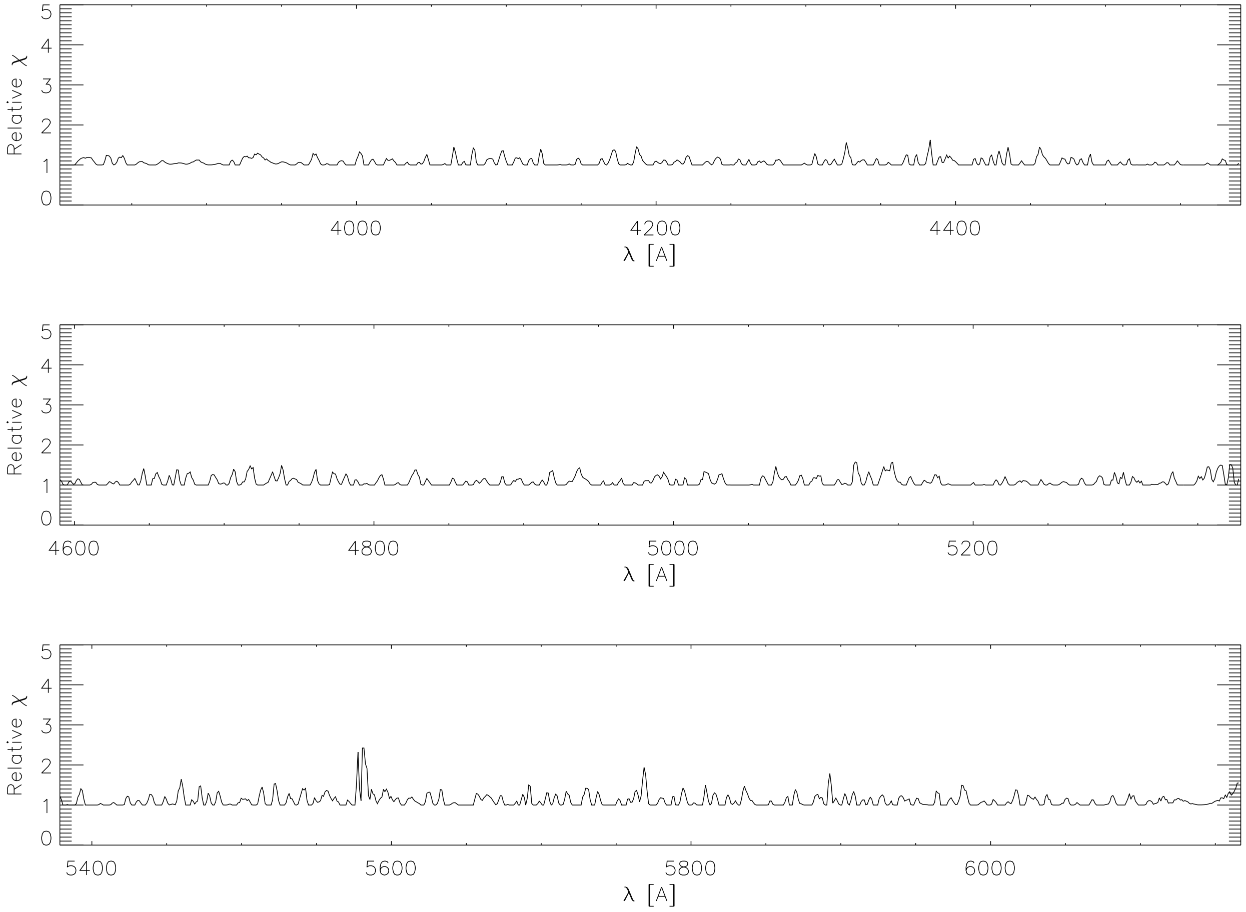

PLATE=3155 MJD=54828 Smooth superflat for sdR-b1-00057584.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
es= 0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

PLATE=3155 MJD=54828 sdR-b1-00057584.fit 1D Sky-subtraction Sky Fiber



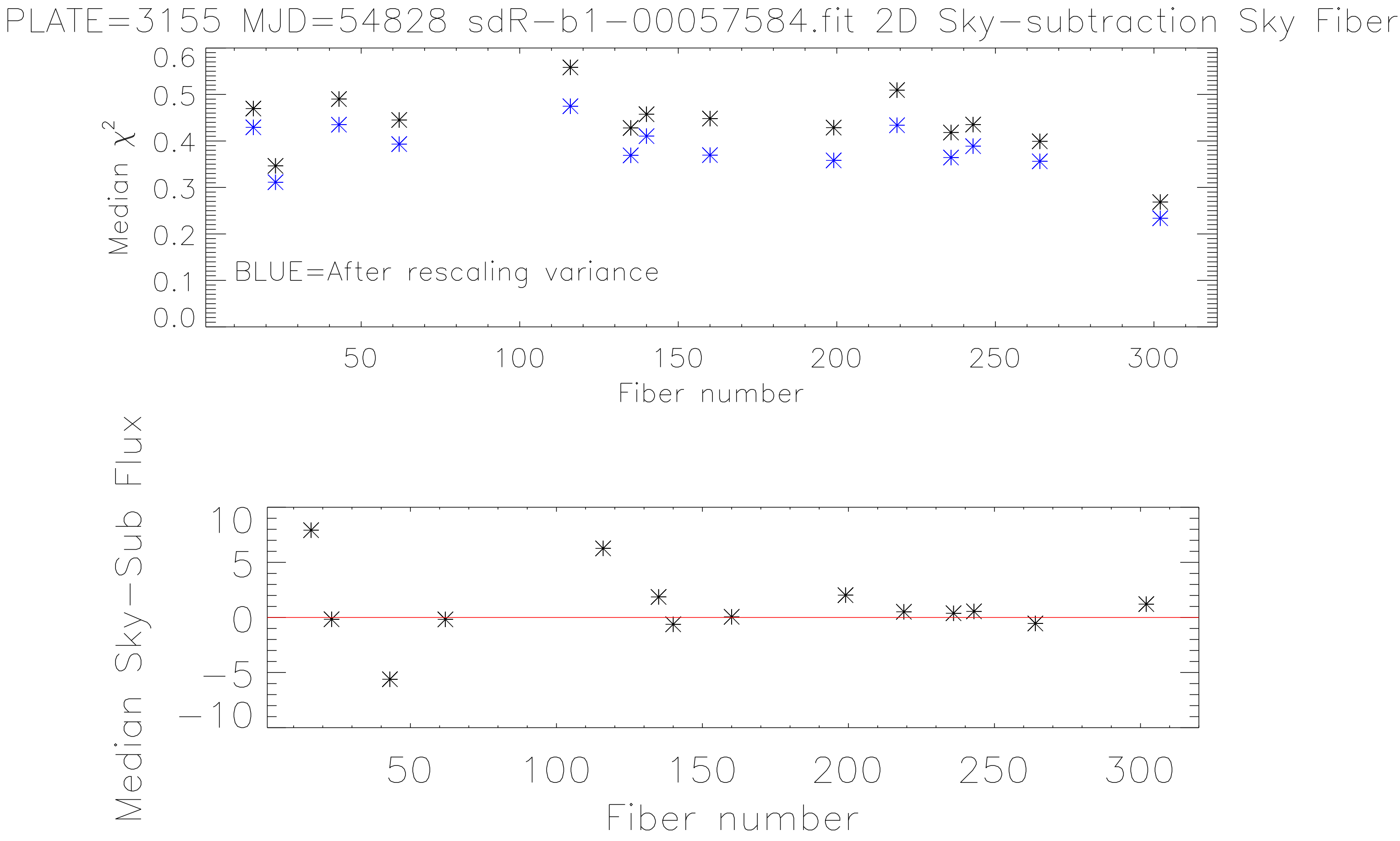

PLATE=3155 MJD=54828 sdR-b1-00057584.fit 1D Sky-subtraction Sky Fibers

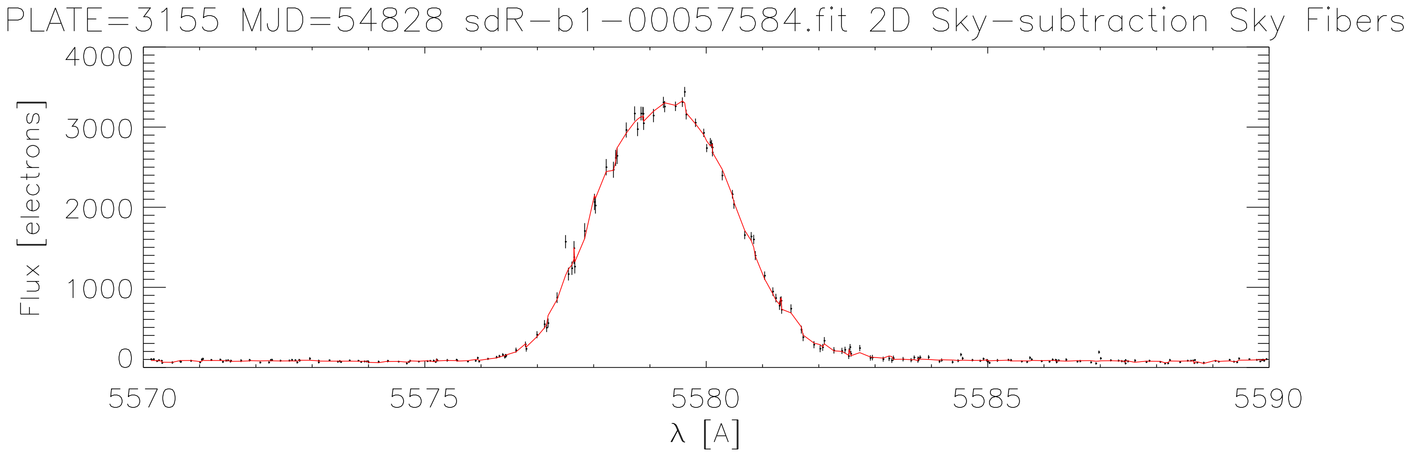

PLATE=3155 MJD=54828 sdR-b1-00057584.fit 1D Sky-subtraction Sky-subtracted Sky F

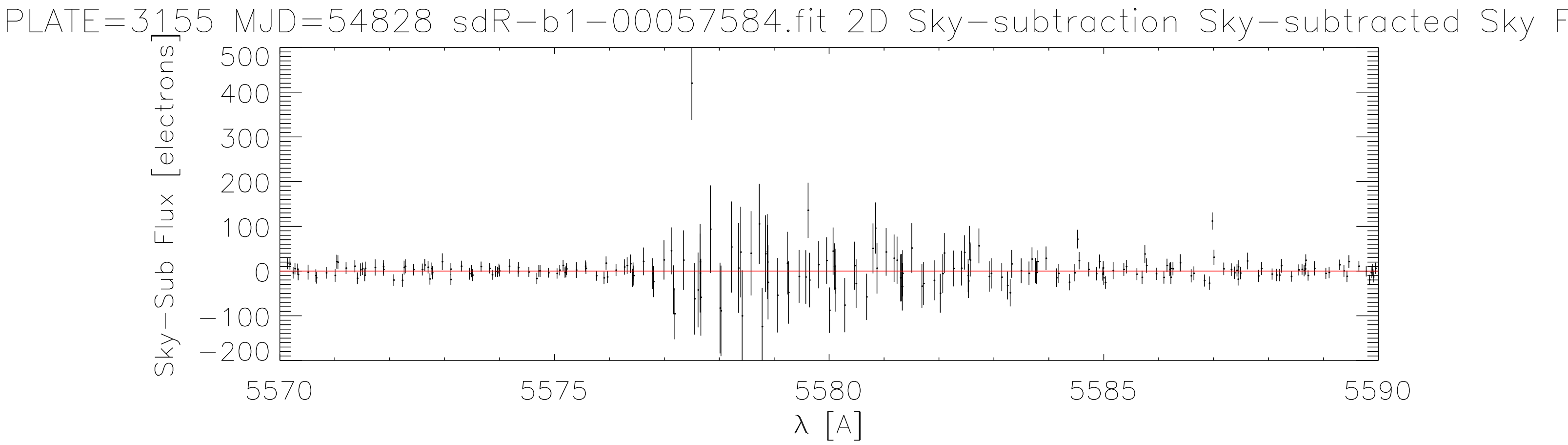


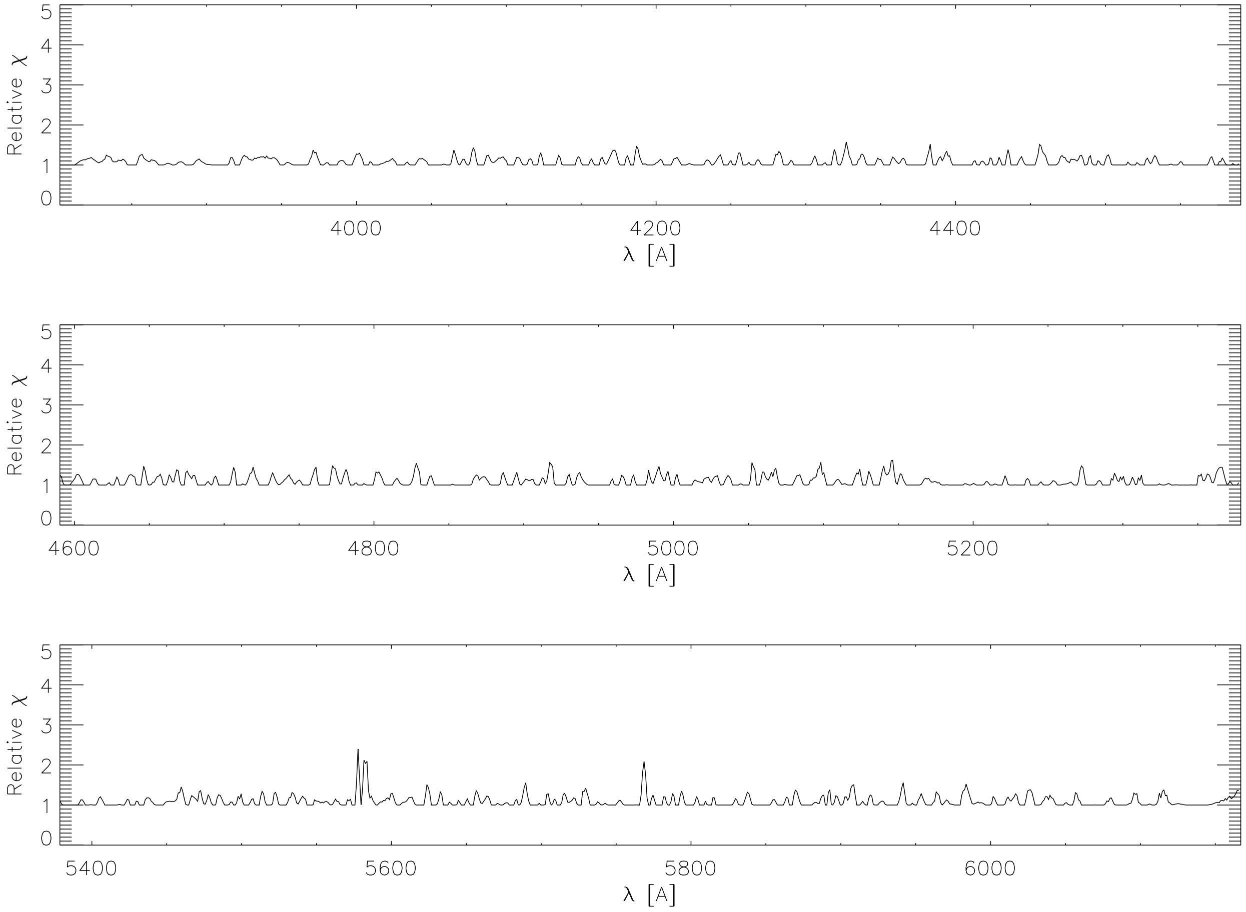
Number of sky fibers = 14

PLATE=3155 MJD=54828 sdR-b1-00057584.fit 1D Sky-subtraction Rescaled Errors


PLATE=3155 MJD=54828 sdR-b1-00057584.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

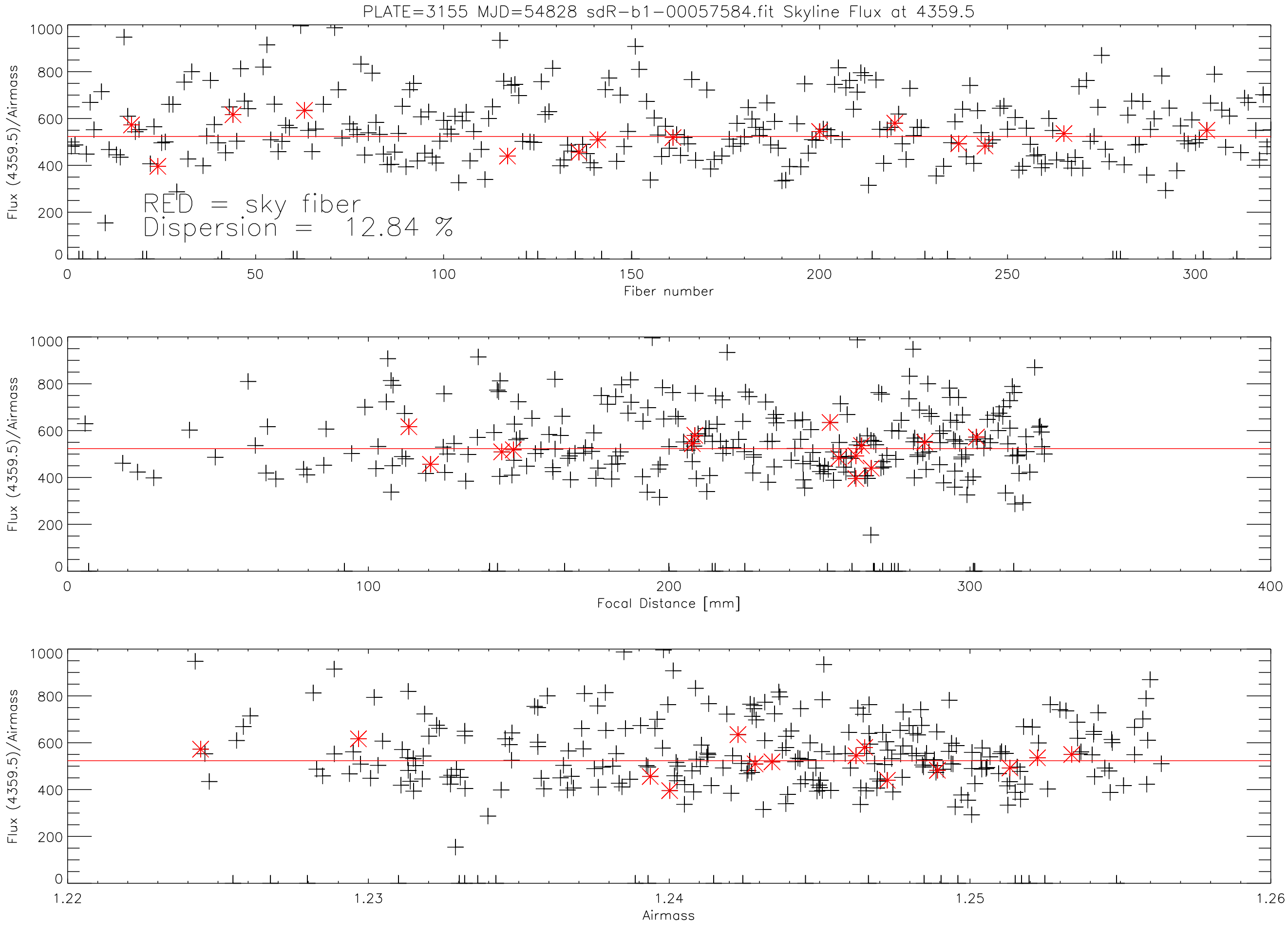

PLATE=3155 MJD=54828 sdR-b1-00057584.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

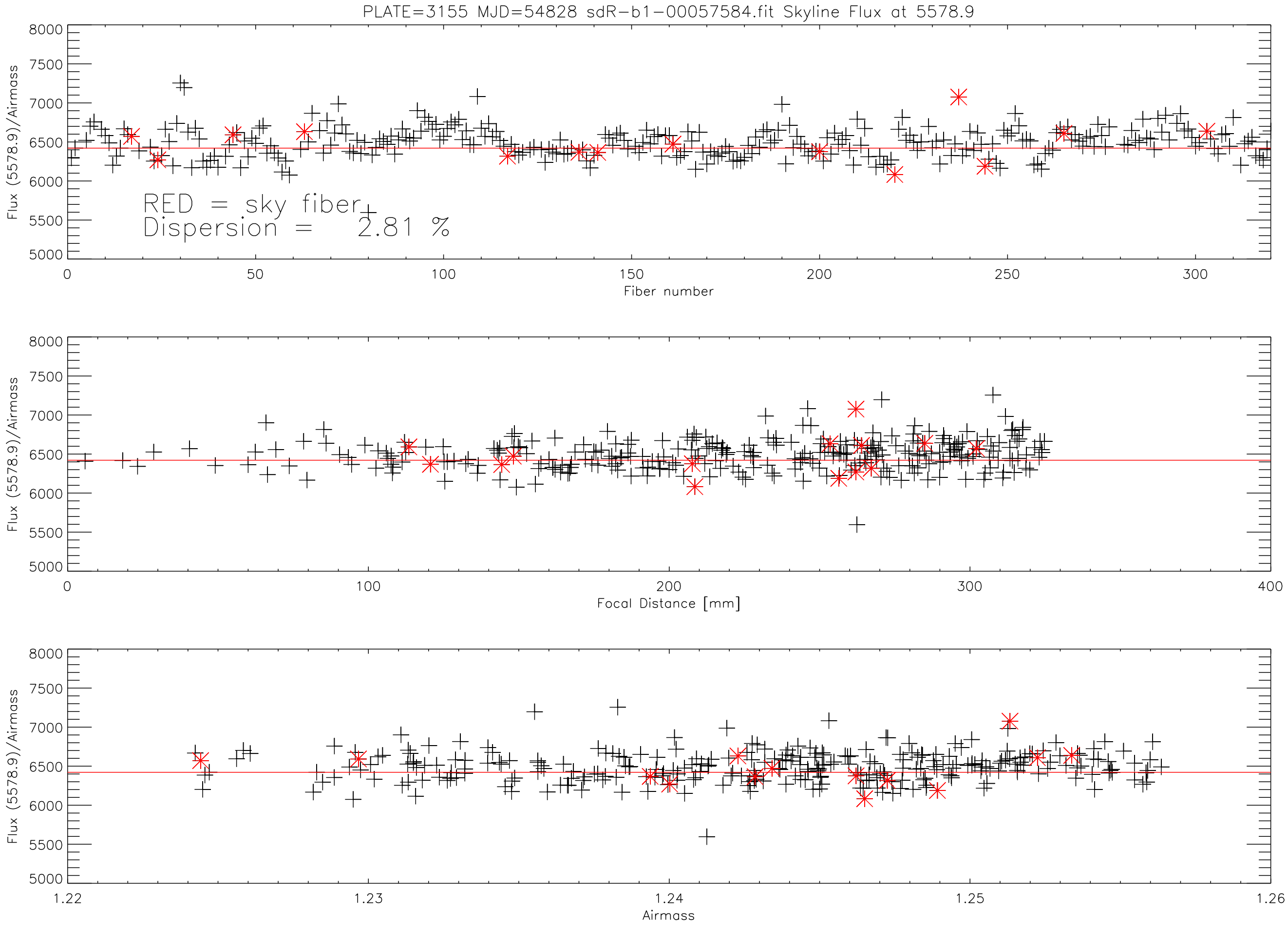

PLATE=3155 MJD=54828 sdR-b1-00057584.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
500
400
300
200
100
0
−100
−200
5570
5575
5580
5585
5590
λ [A]

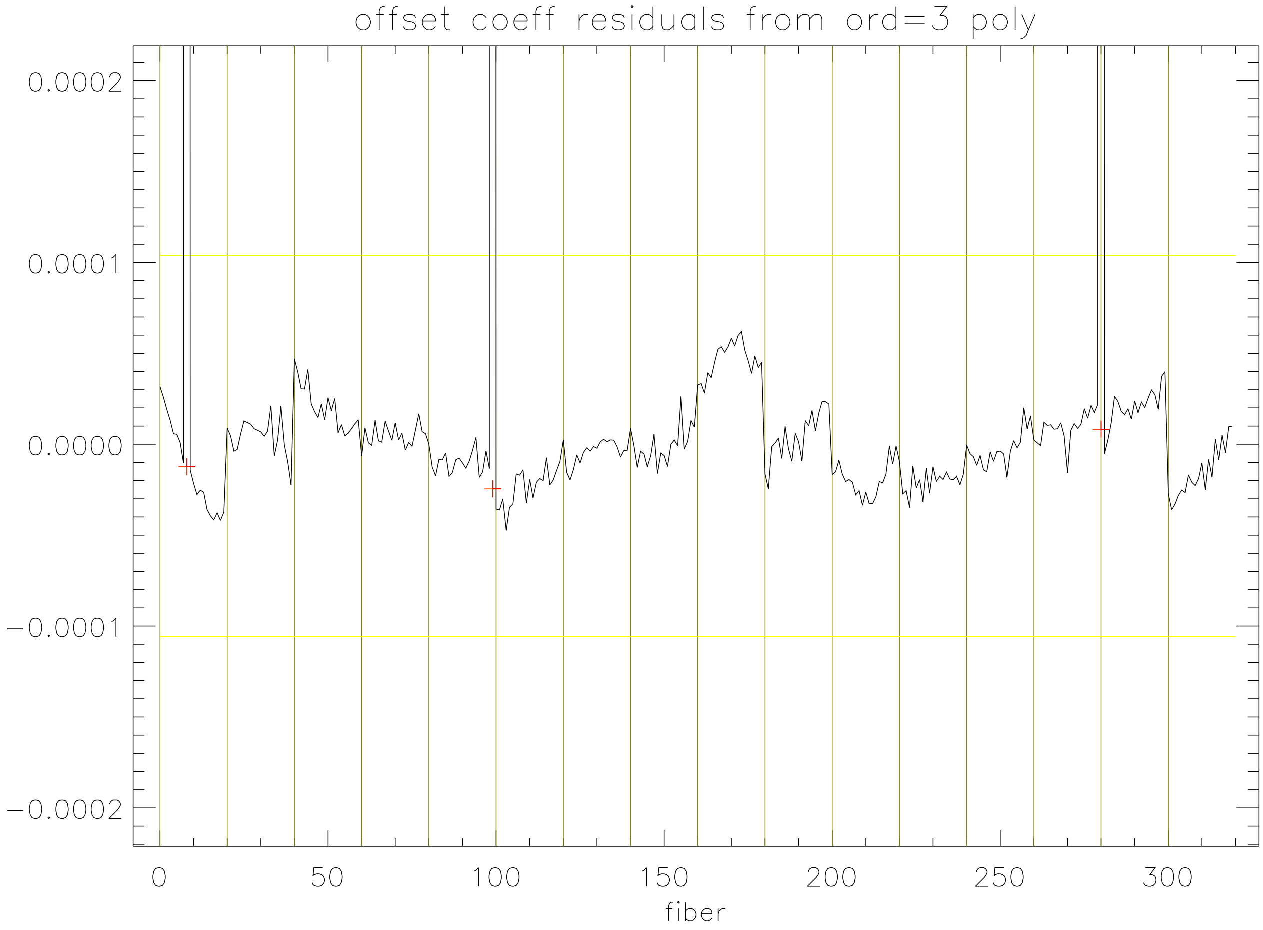


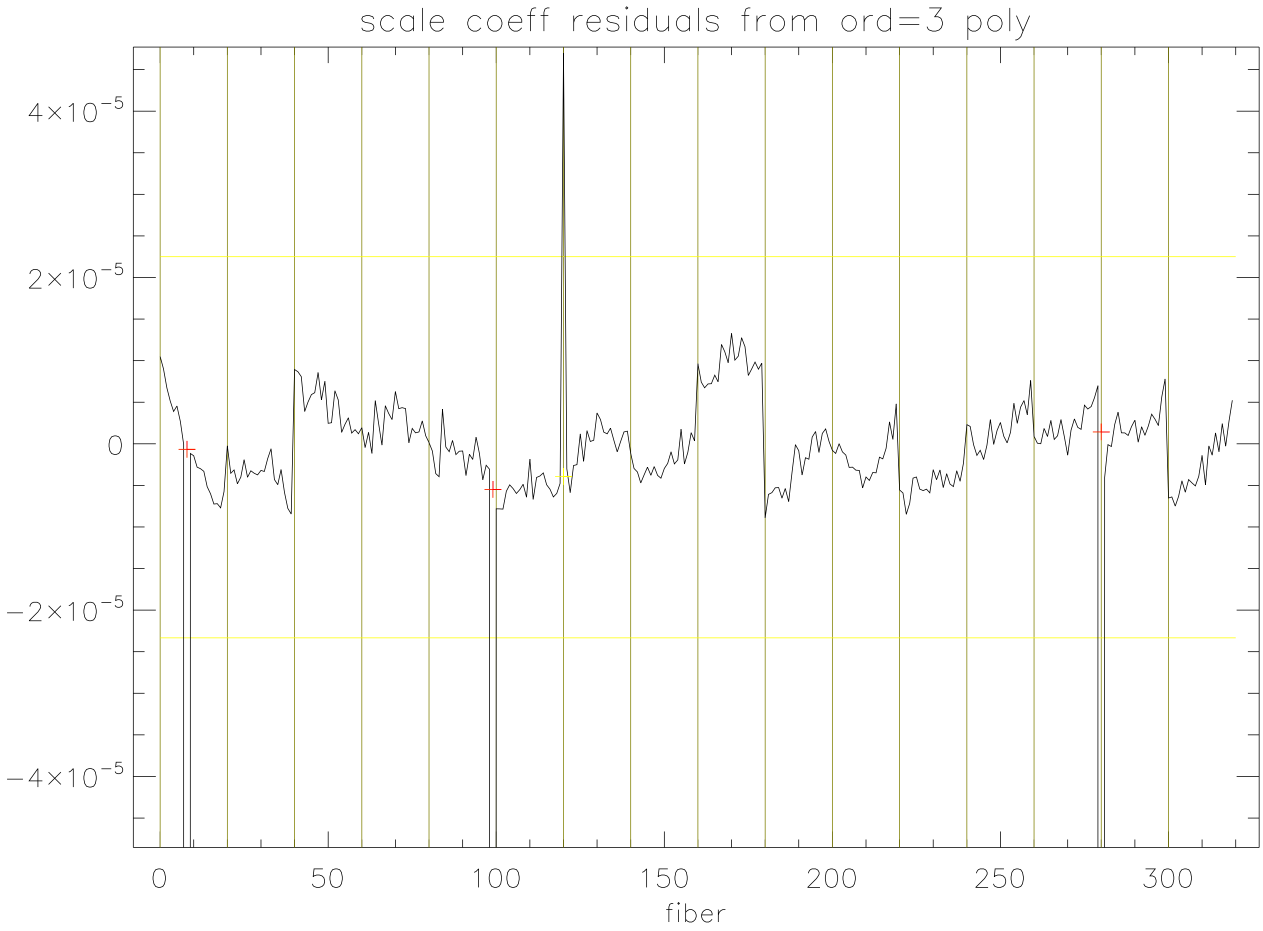
Number of sky fibers = 14

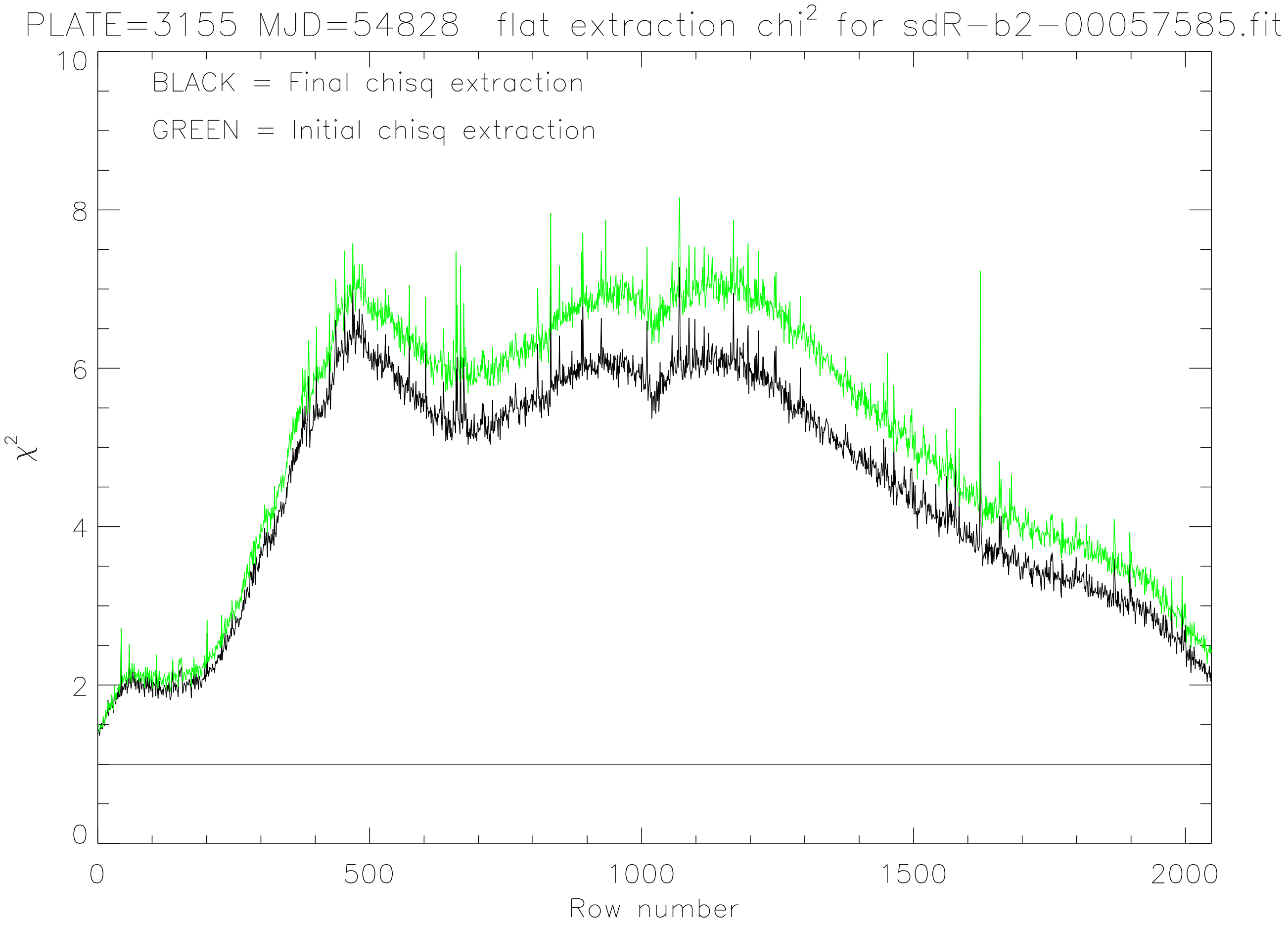
PLATE=3155 MJD=54828 sdR-b1-00057584.fit 2D Sky-subtraction Rescaled Errors

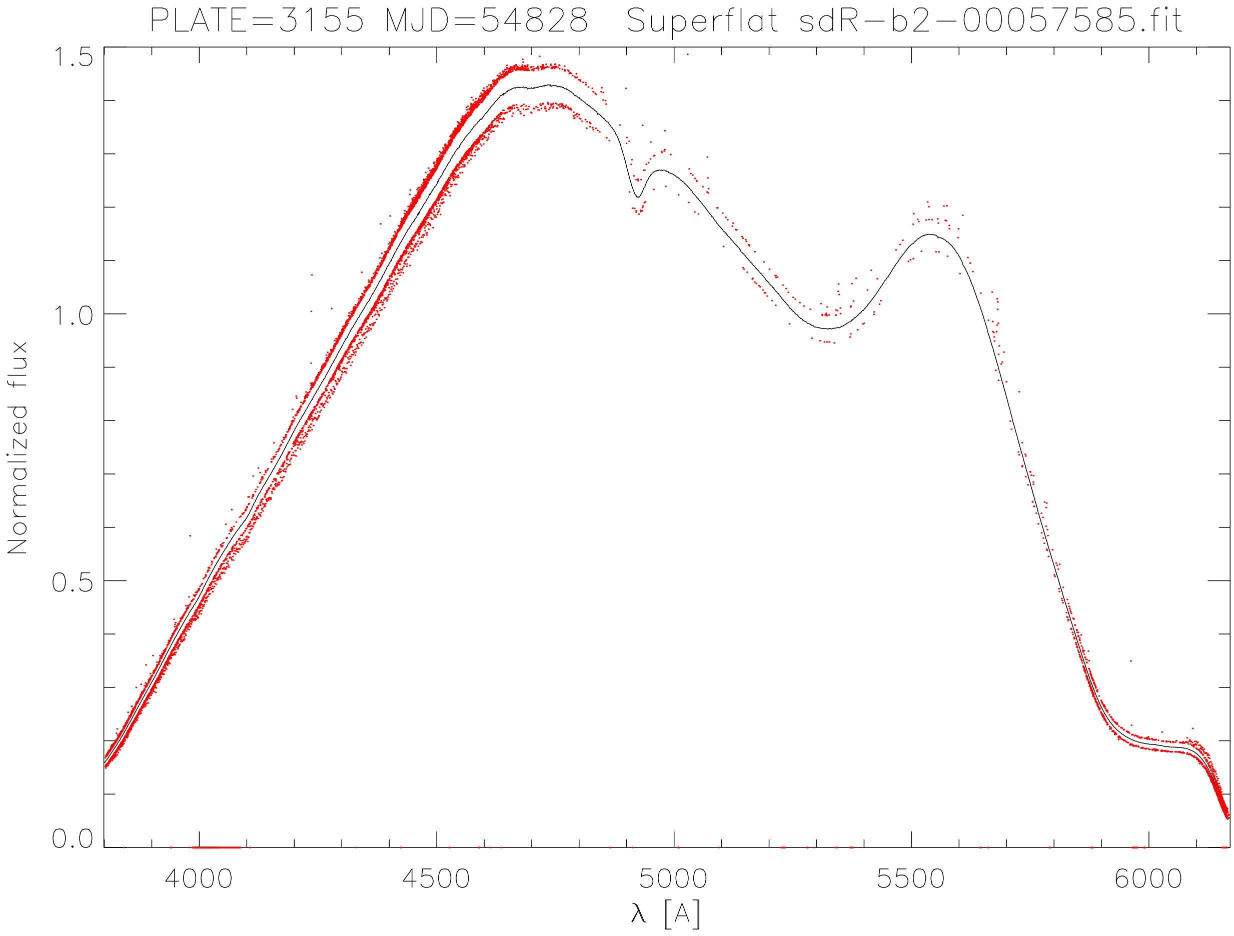

PLATE=3155 MJD=54828 sdR-b1-00057584.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.84 %
Fiber number
Focal Distance [mm]
Airmass
0
200
400
600
800
1000
0
50
100
150
200
250
300
0
100
200
300
400
1.22
1.23
1.24
1.25
1.26

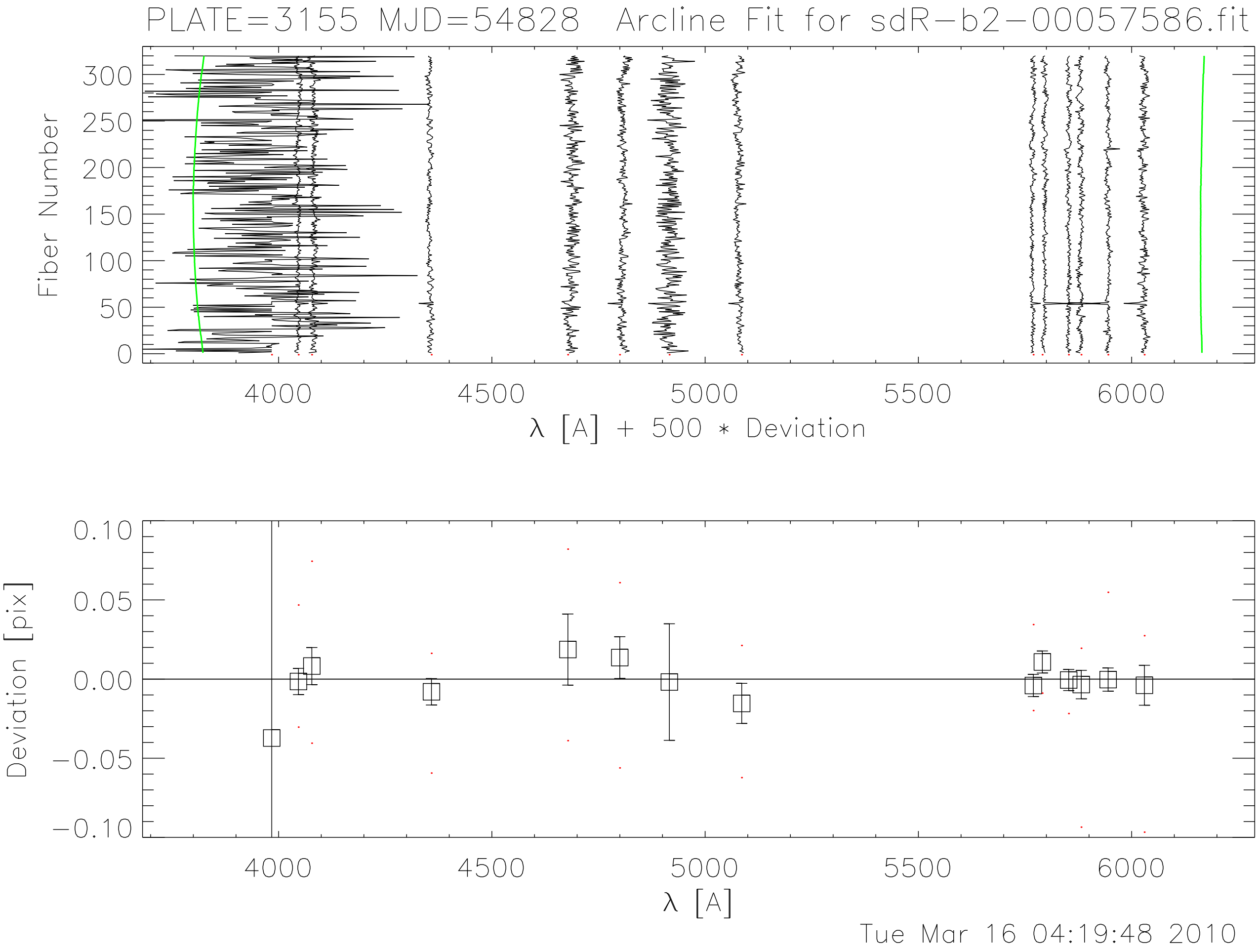

PLATE=3155 MJD=54828 sdR-b1-00057584.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
8000
7500
7000
6500
6000
5500
5000
RED = sky fiber
Dispersion = 2.81 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.22
1.23
1.24
1.25
1.26
Airmass

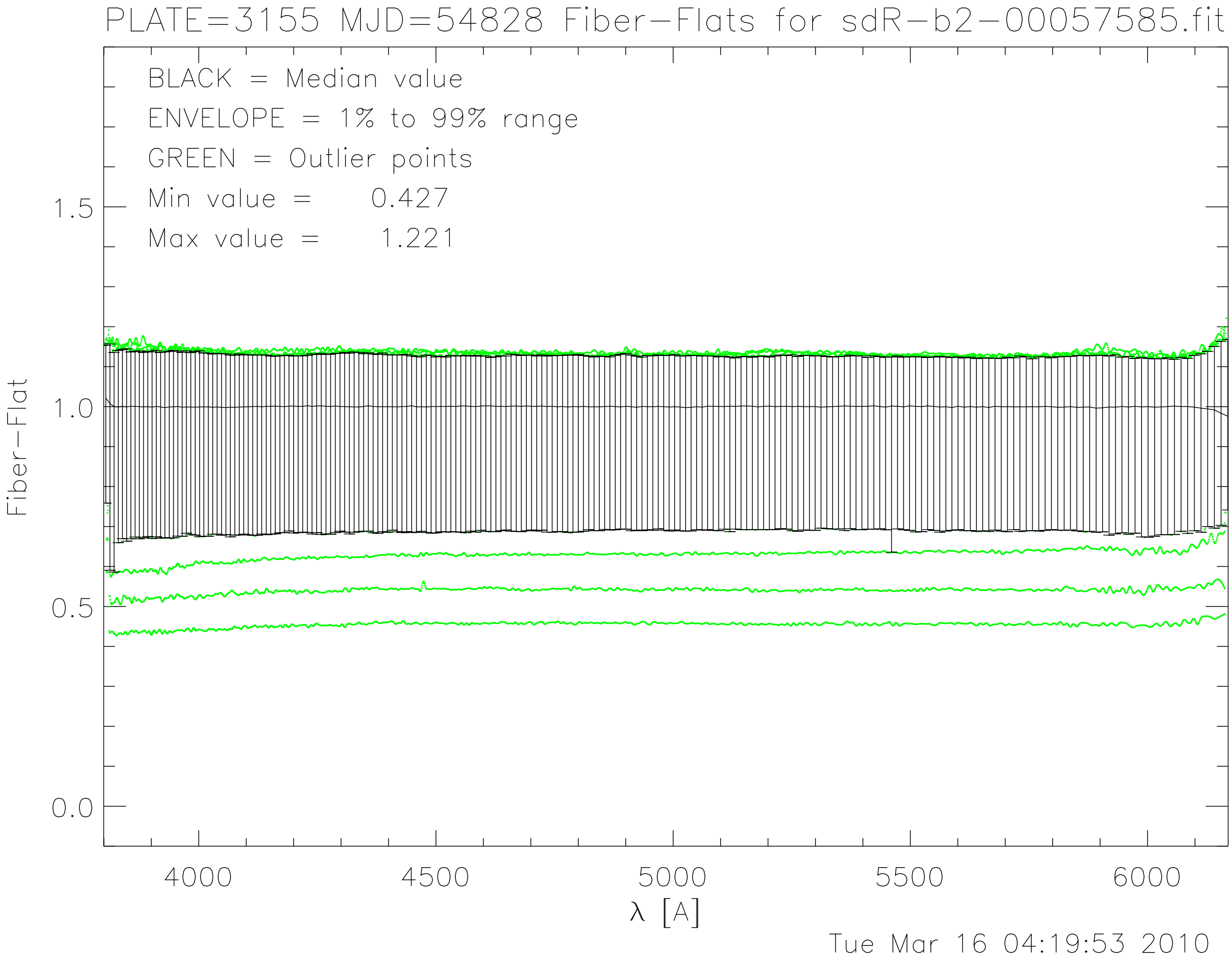

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber


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

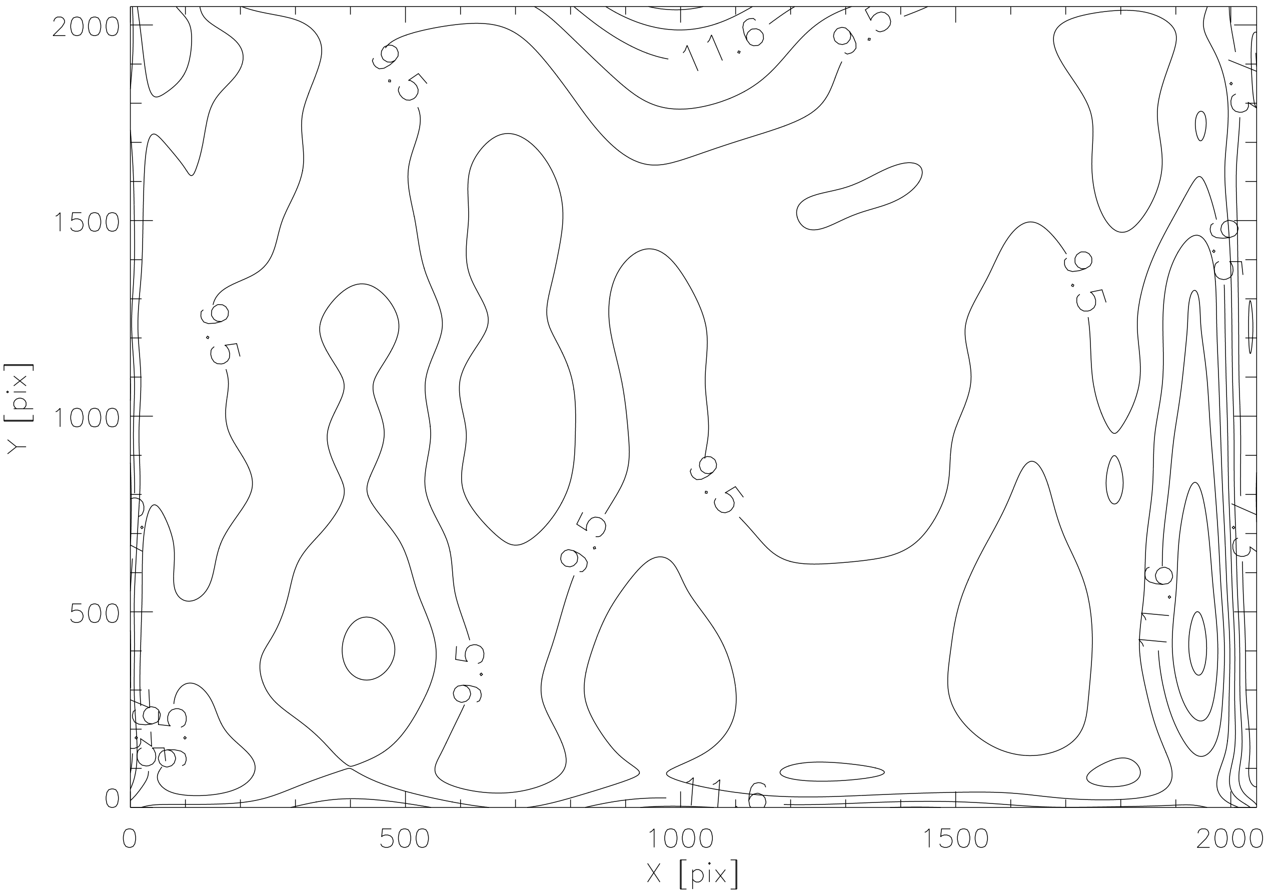

PLATE=3155 MJD=54828 flat extraction chi^2 for sdR-b2-00057585.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
0
500
1000
1500
2000
Row number

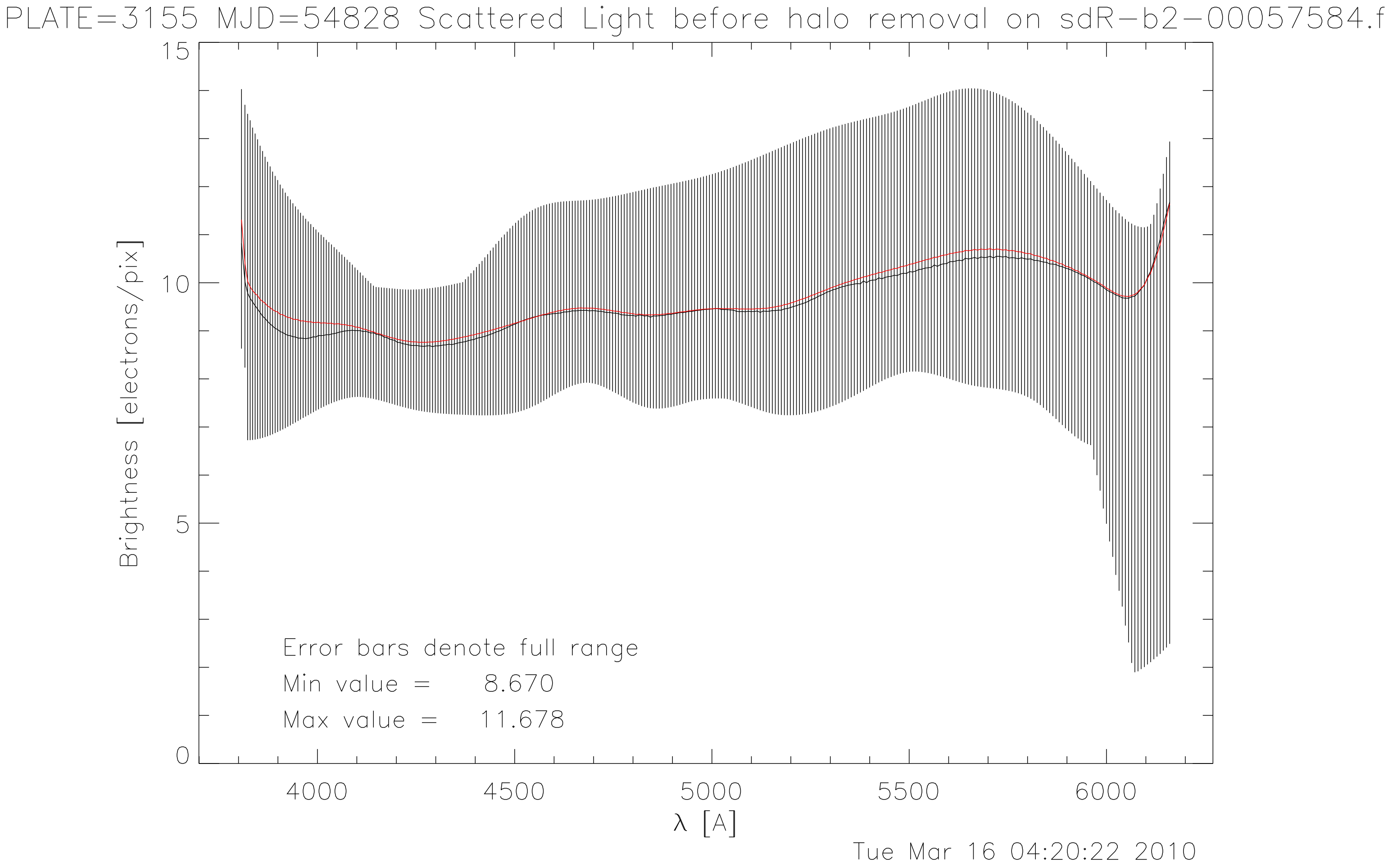

PLATE=3155 MJD=54828 Superflat sdR-b2-00057585.fit
Normalized flux
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000
λ [A]

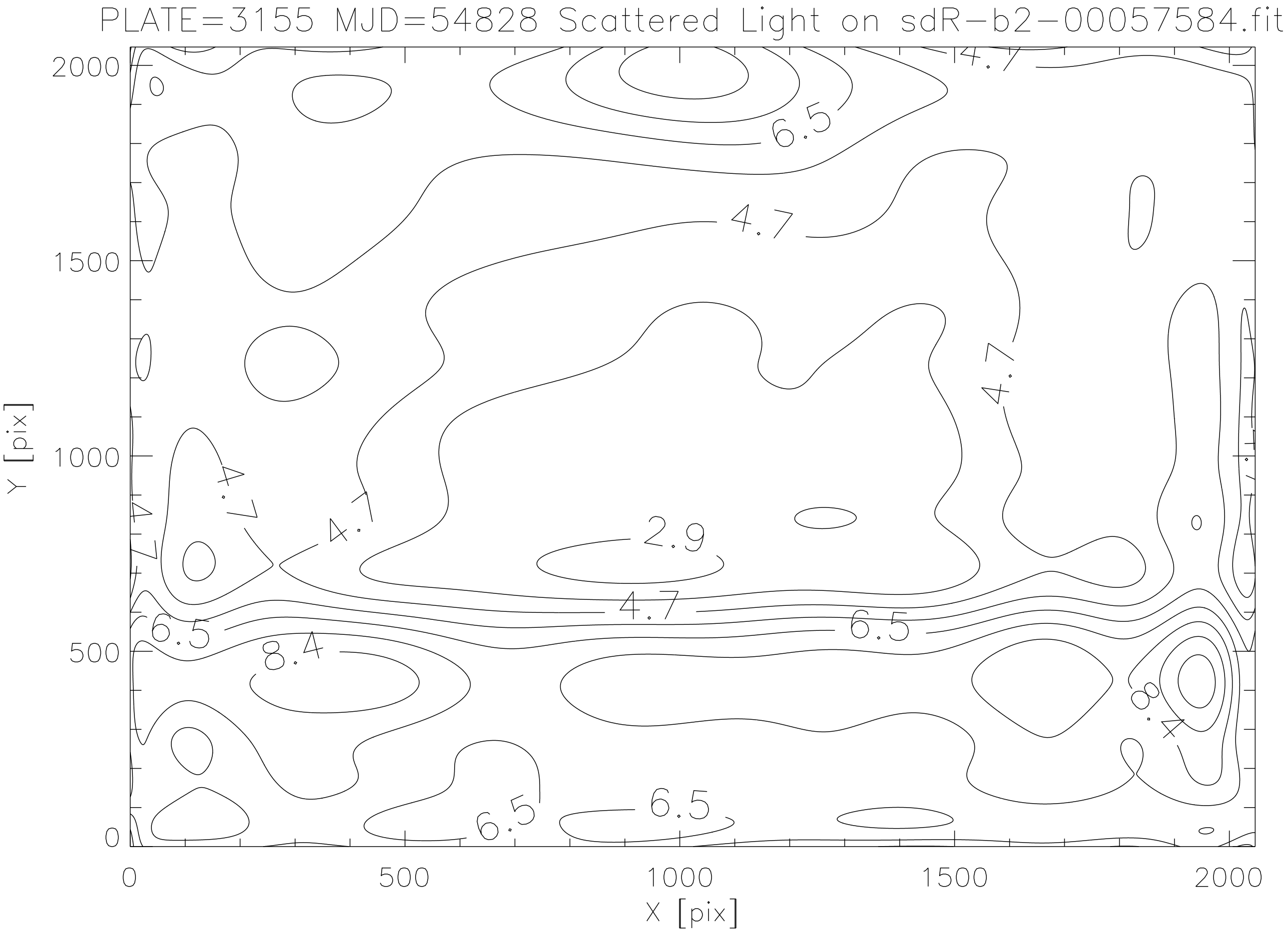

PLATE=3155 MJD=54828 Arcline Fit for sdR-b2-00057586.fit
Fiber Number
0
50
100
150
200
250
300
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Tue Mar 16 04:19:48 2010

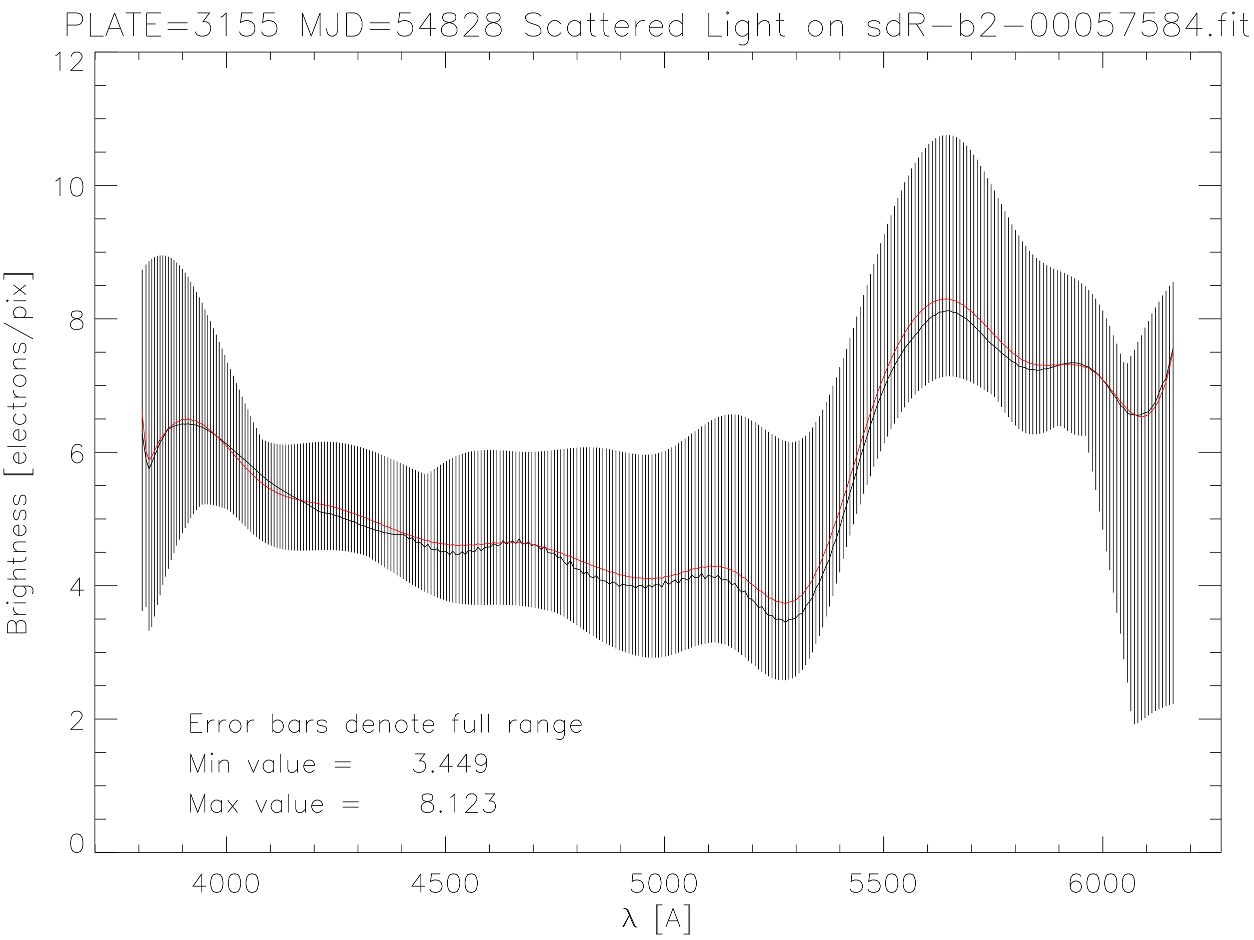

PLATE=3155 MJD=54828 Fiber−Flats for sdR−b2−00057585.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.427
Max value = 1.221
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Tue Mar 16 04:19:53 2010

PLATE=3155 MJD=54828 Scattered Light before halo removal on sdR-b2-00057584.f



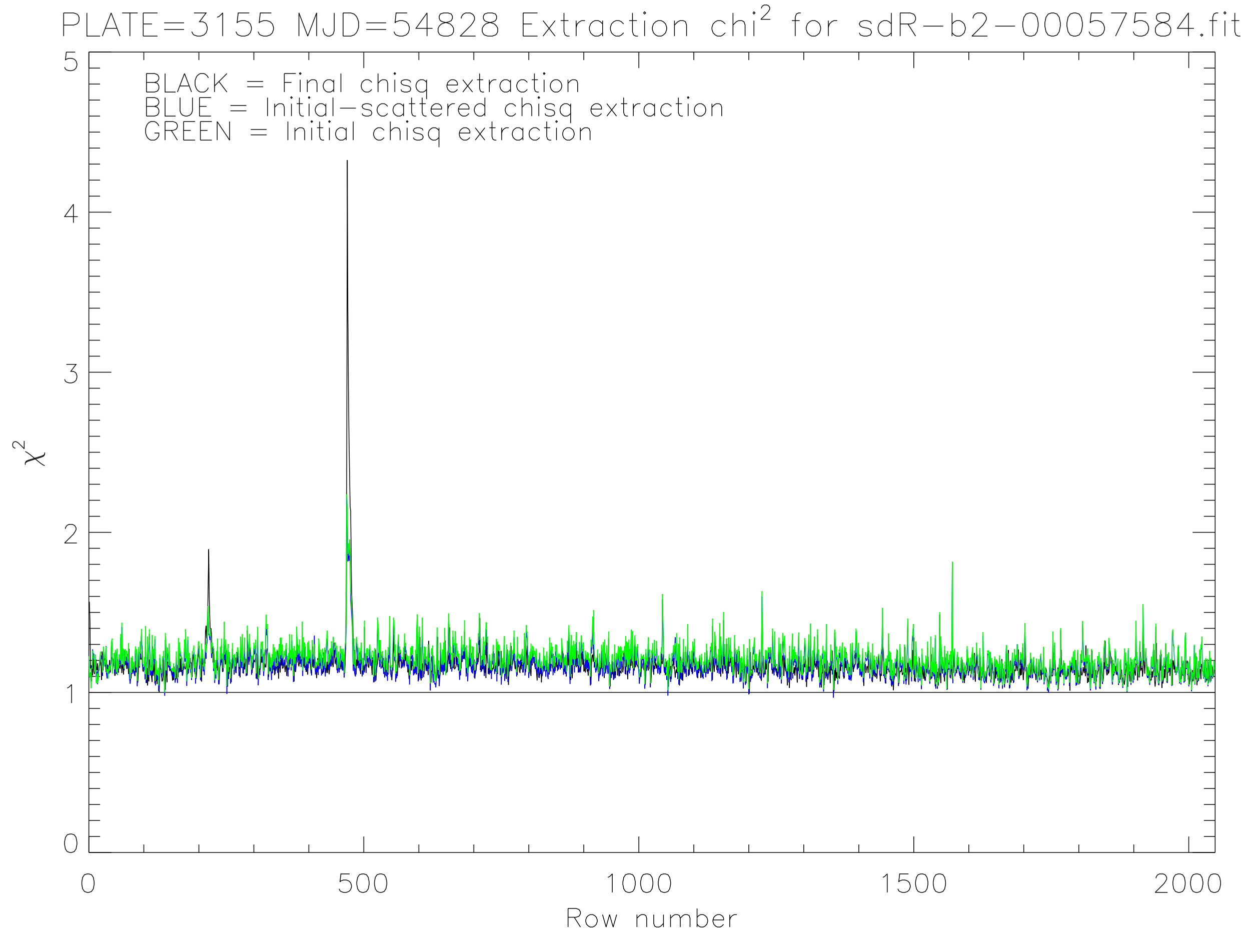

PLATE=3155 MJD=54828 Scattered Light before halo removal on sdR-b2-00057584.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 8.670
Max value = 11.678
Tue Mar 16 04:20:22 2010

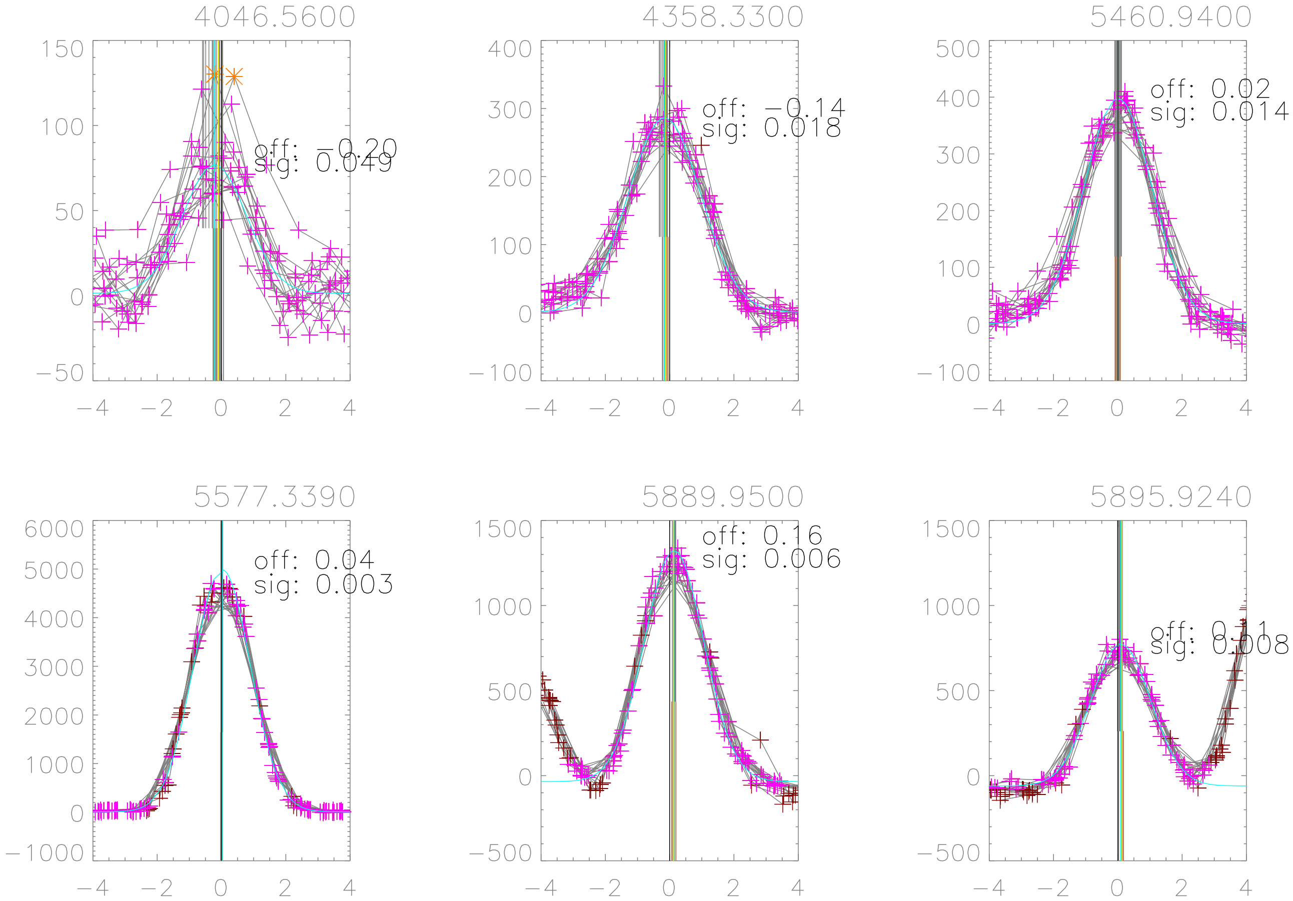

PLATE=3155 MJD=54828 Scattered Light on sdR-b2-00057584.fit

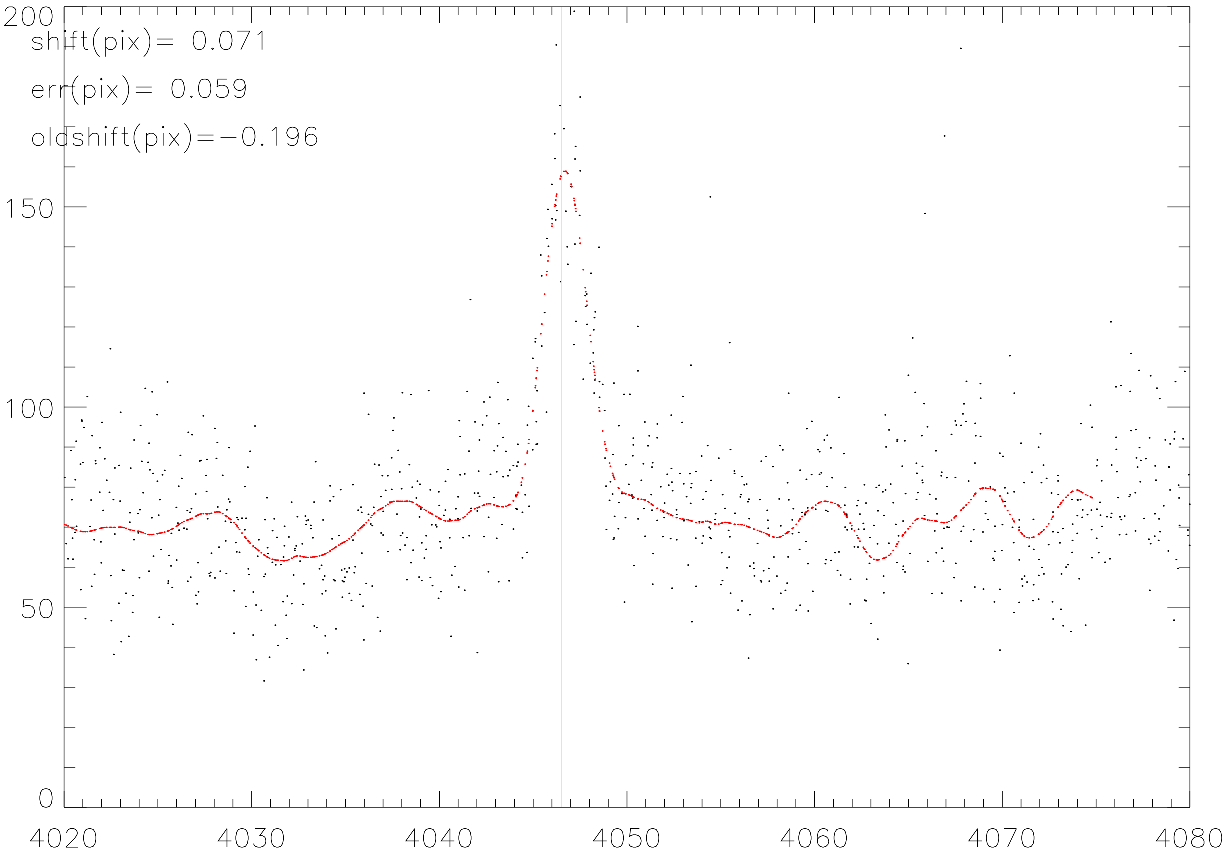


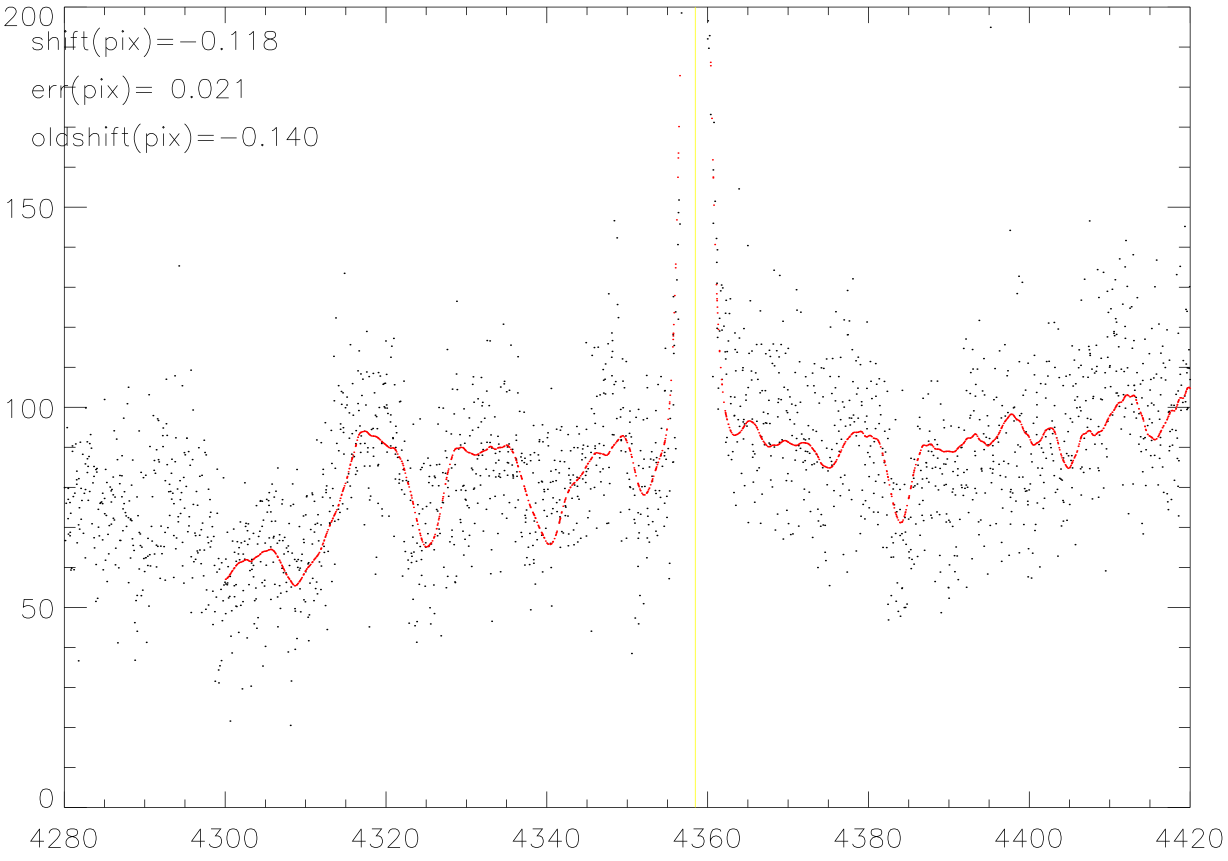
PLATE=3155 MJD=54828 Scattered Light on sdR-b2-00057584.fit

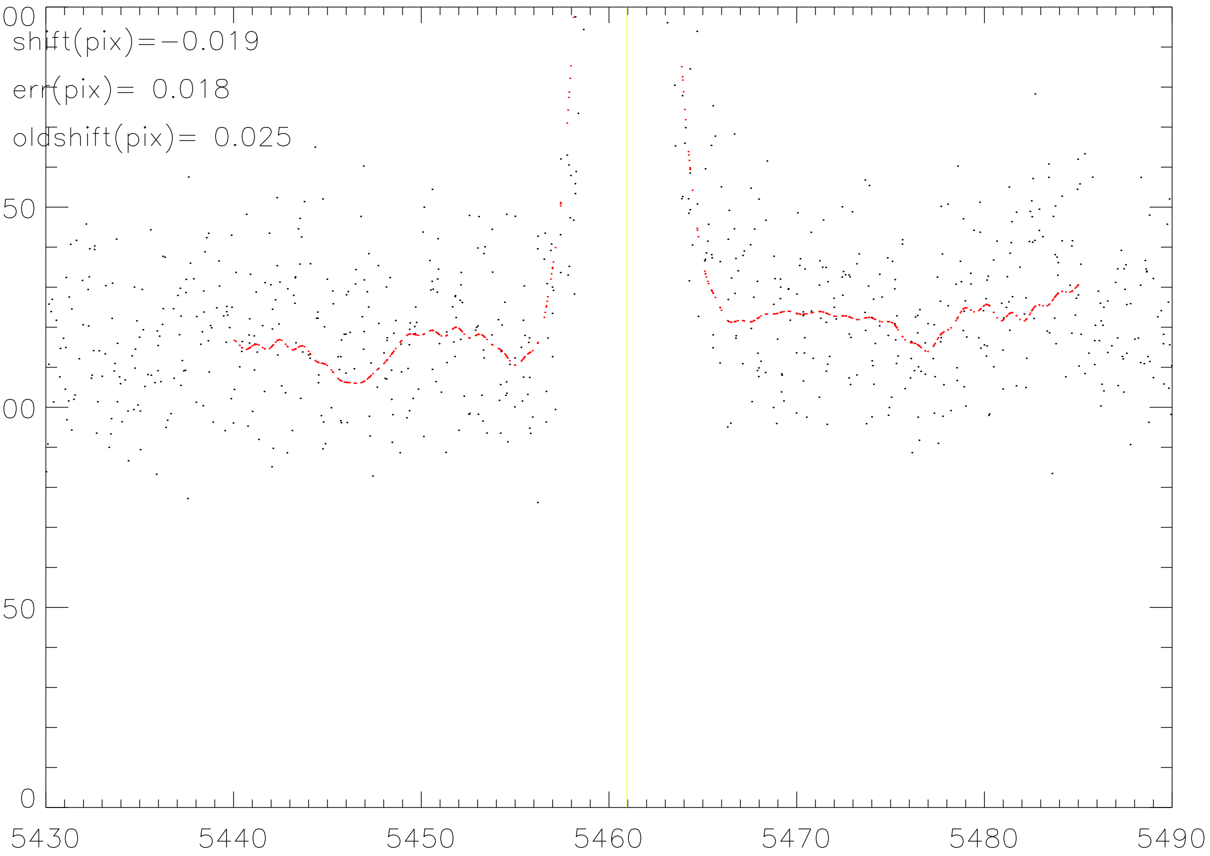
Tue Mar 16 04:22:00 2010

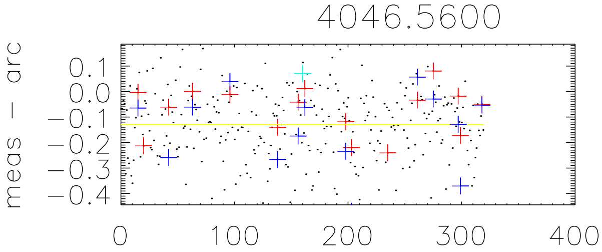

PLATE=3155 MJD=54828 Extraction chi^2 for sdR-b2-00057584.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

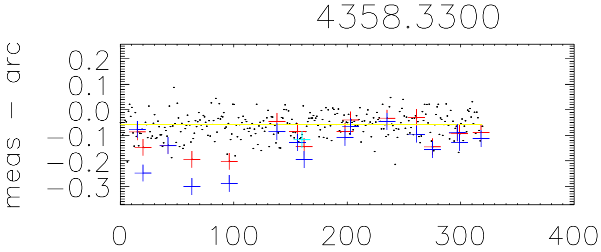

4046.5600
off: −0.20
sig: 0.049
150
100
50
0
−50
−4
−2
0
2
4
4358.3300
off: −0.14
sig: 0.018
400
300
200
100
0
−100
5460.9400
off: 0.02
sig: 0.014
500
400
300
200
100
0
−100
5577.3390
off: 0.04
sig: 0.003
6000
5000
4000
3000
2000
1000
0
−1000
5889.9500
off: 0.16
sig: 0.006
1500
1000
500
0
−500
5895.9240
off: 0.11
sig: 0.008
1500
1000
500
0
−500

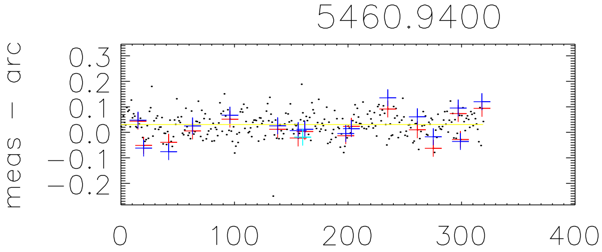

shift(pix)= 0.071
err(pix)= 0.059
oldshift(pix)=-0.196
200
150
100
50
0
4020
4030
4040
4050
4060
4070
4080

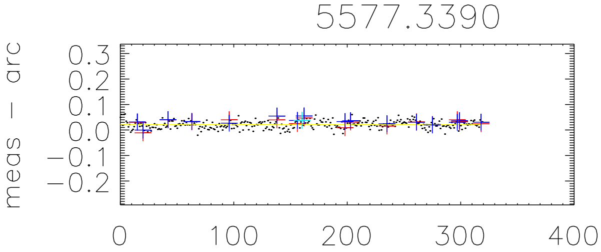

shift(pix)=−0.118
err(pix)= 0.021
oldshift(pix)=−0.140
200
150
100
50
0
4280
4300
4320
4340
4360
4380
4400
4420

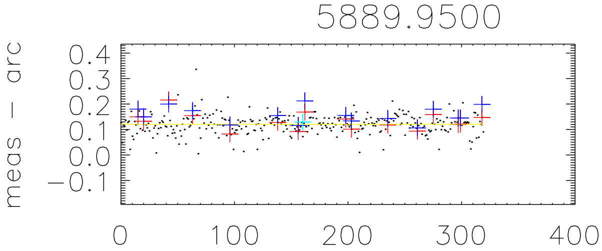

shift(pix)=−0.019
err(pix)= 0.018
oldshift(pix)= 0.025
200
150
100
50
0
5430
5440
5450
5460
5470
5480
5490

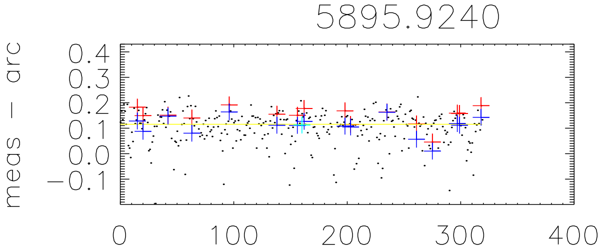

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

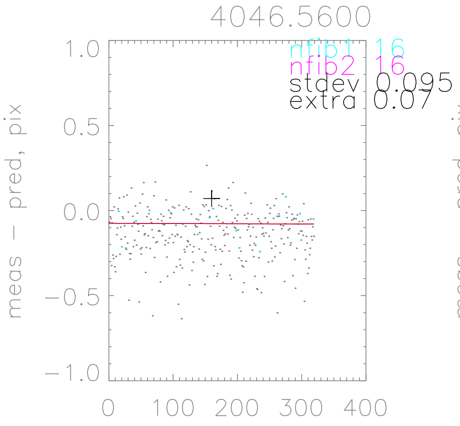

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

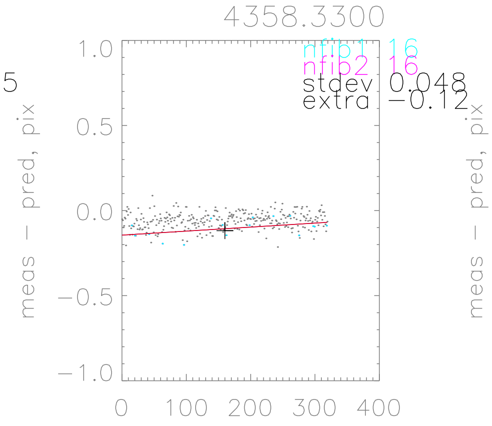

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

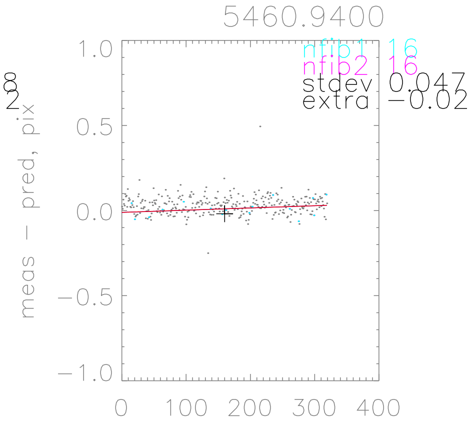

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

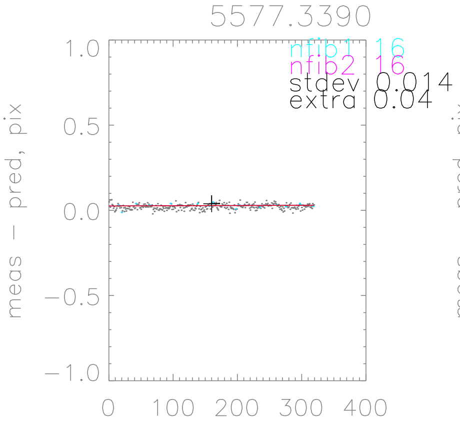

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

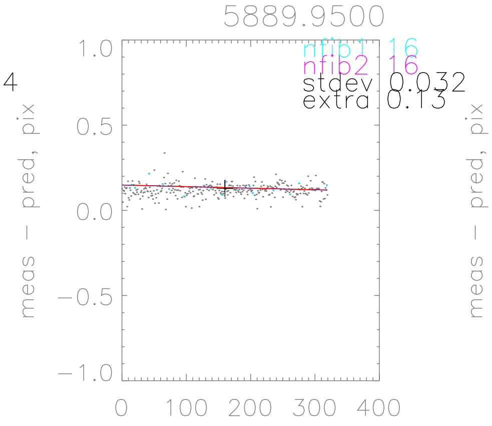

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

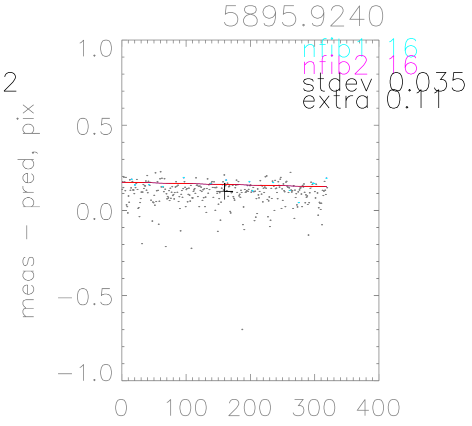

4046.5600
nfib1 16
nfib2 16
stdev 0.095
extra 0.07
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

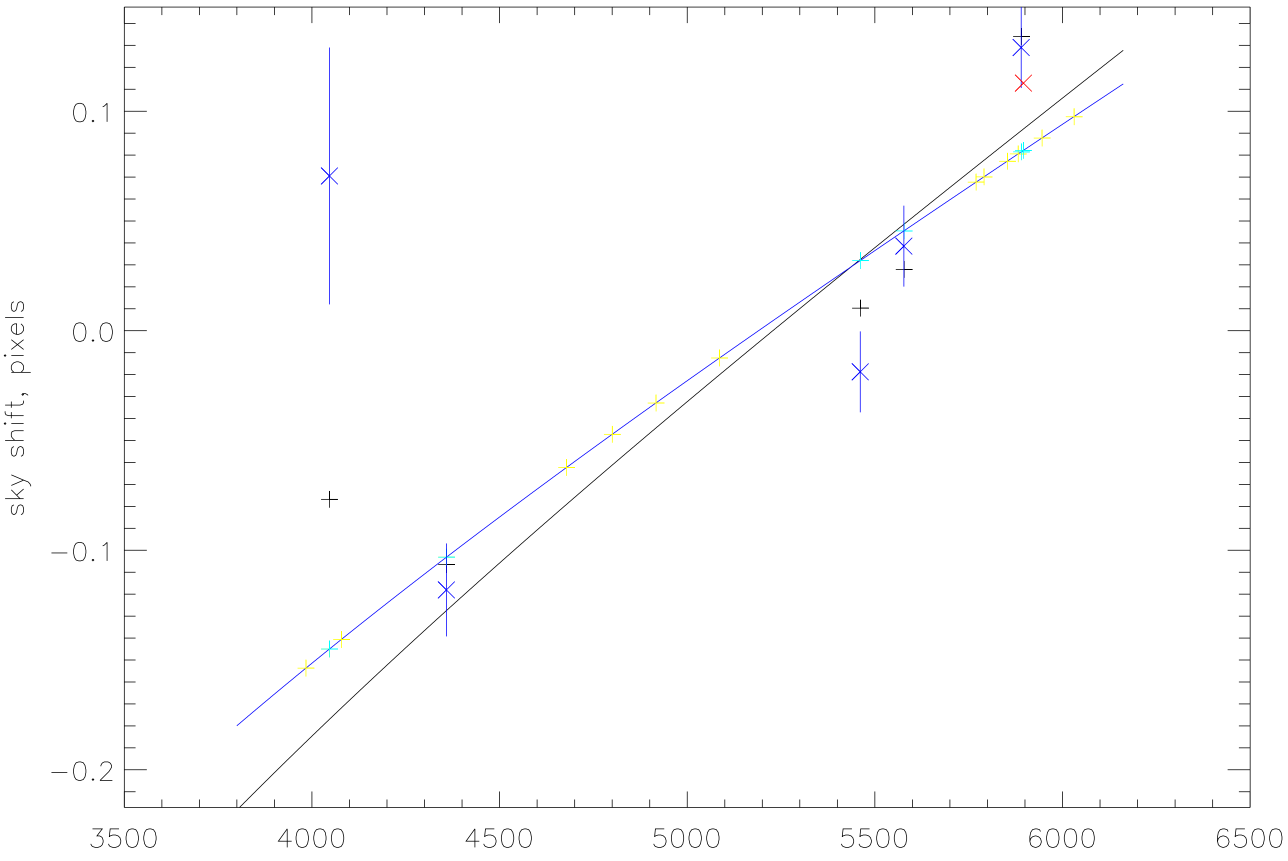

4358.3300
nfib1 16
nfib2 16
stdev 0.048
extra −0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

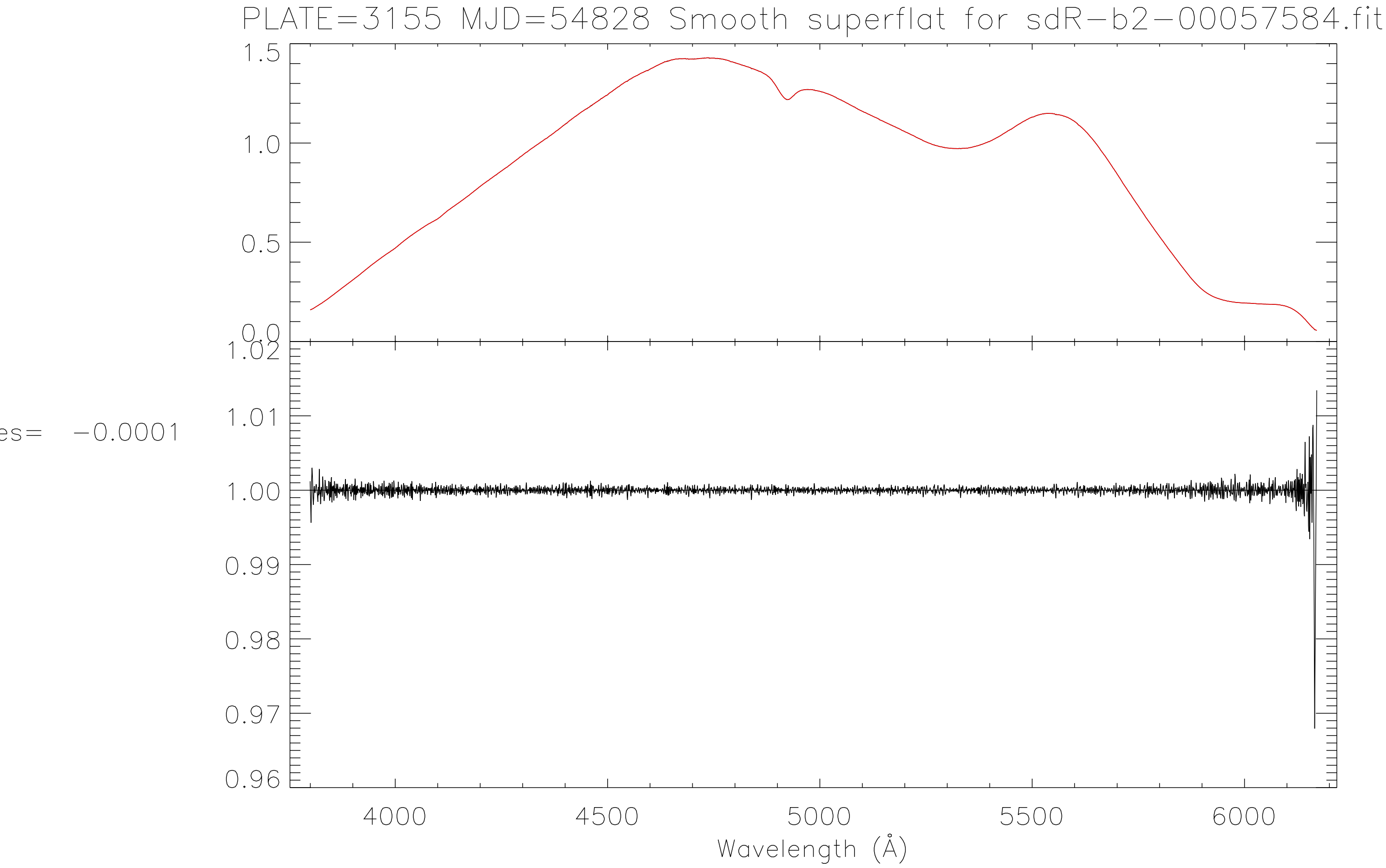

5460.9400
nfib1 16
nfib2 16
stdev 0.047
extra −0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

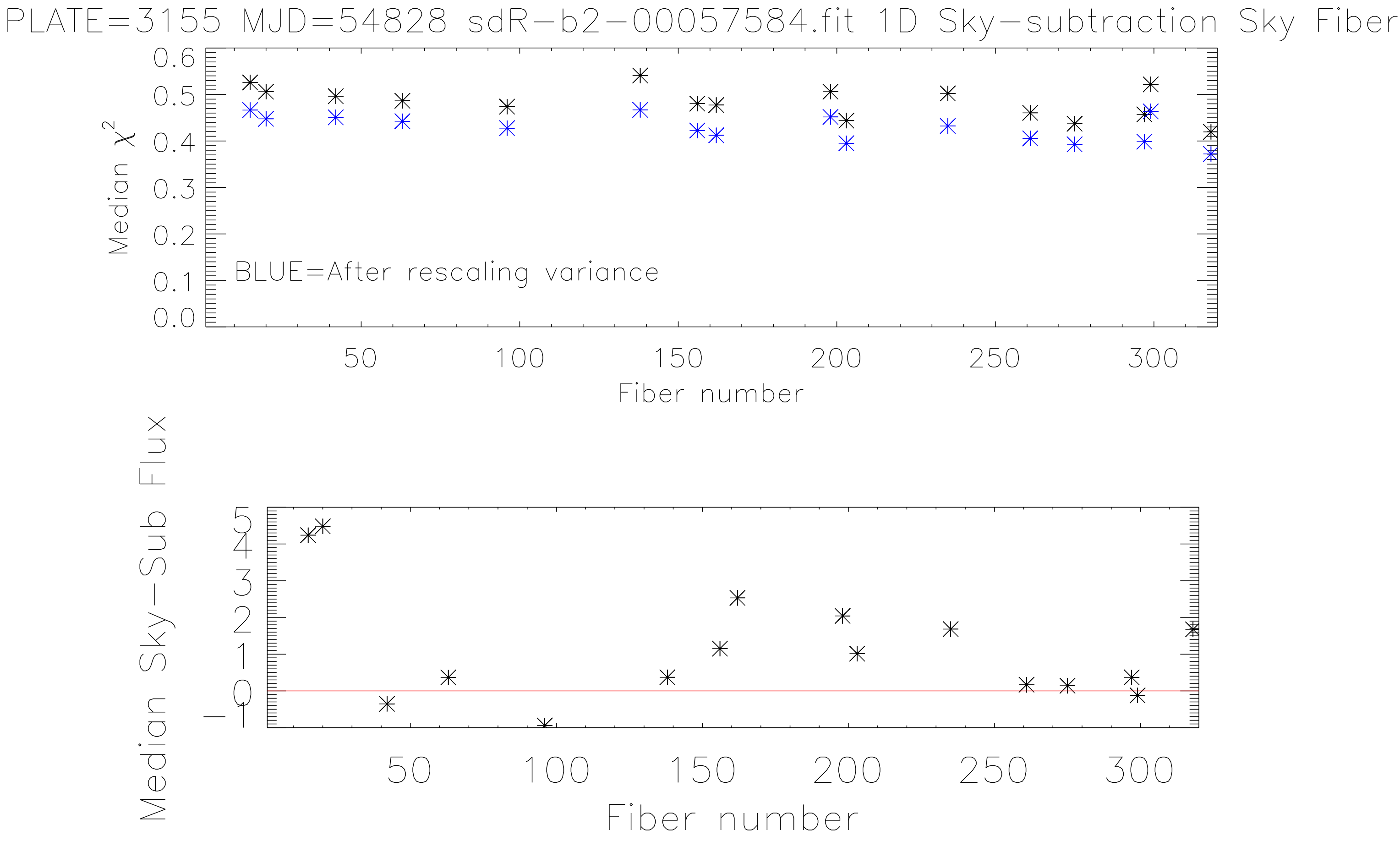

5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra 0.04
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


5889.9500
nfib1 16
nfib2 16
stdev 0.032
extra 0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

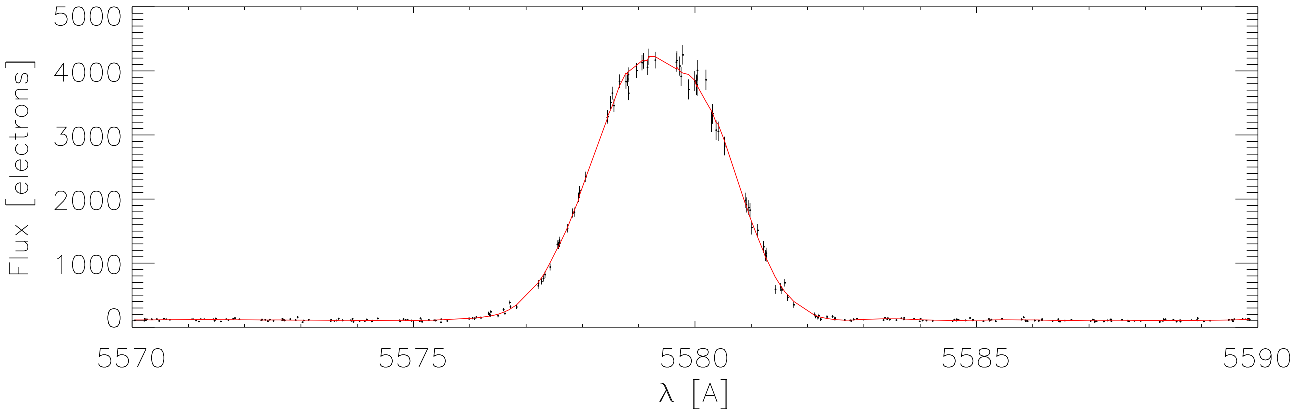

5895.9240
nfib1 16
nfib2 16
stdev 0.035
extra 0.11
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


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

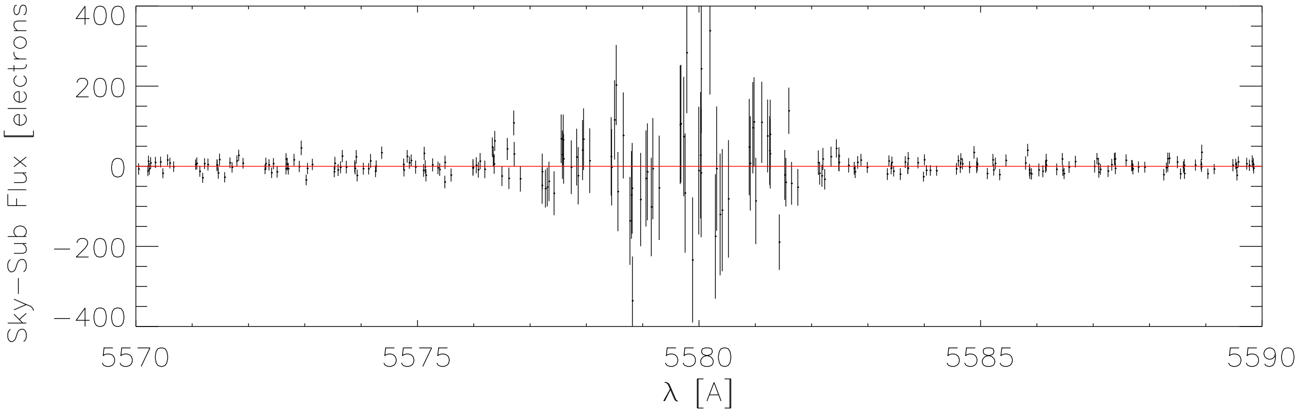

PLATE=3155 MJD=54828 Smooth superflat for sdR-b2-00057584.fit
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
0.98
0.97
0.96
es= −0.0001
4000
4500
5000
5500
6000
Wavelength (Å)


PLATE=3155 MJD=54828 sdR-b2-00057584.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.6
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
5
4
3
2
1
0
−1
50
100
150
200
250
300
Fiber number

PLATE=3155 MJD=54828 sdR-b2-00057584.fit 1D Sky-subtraction Sky Fibers

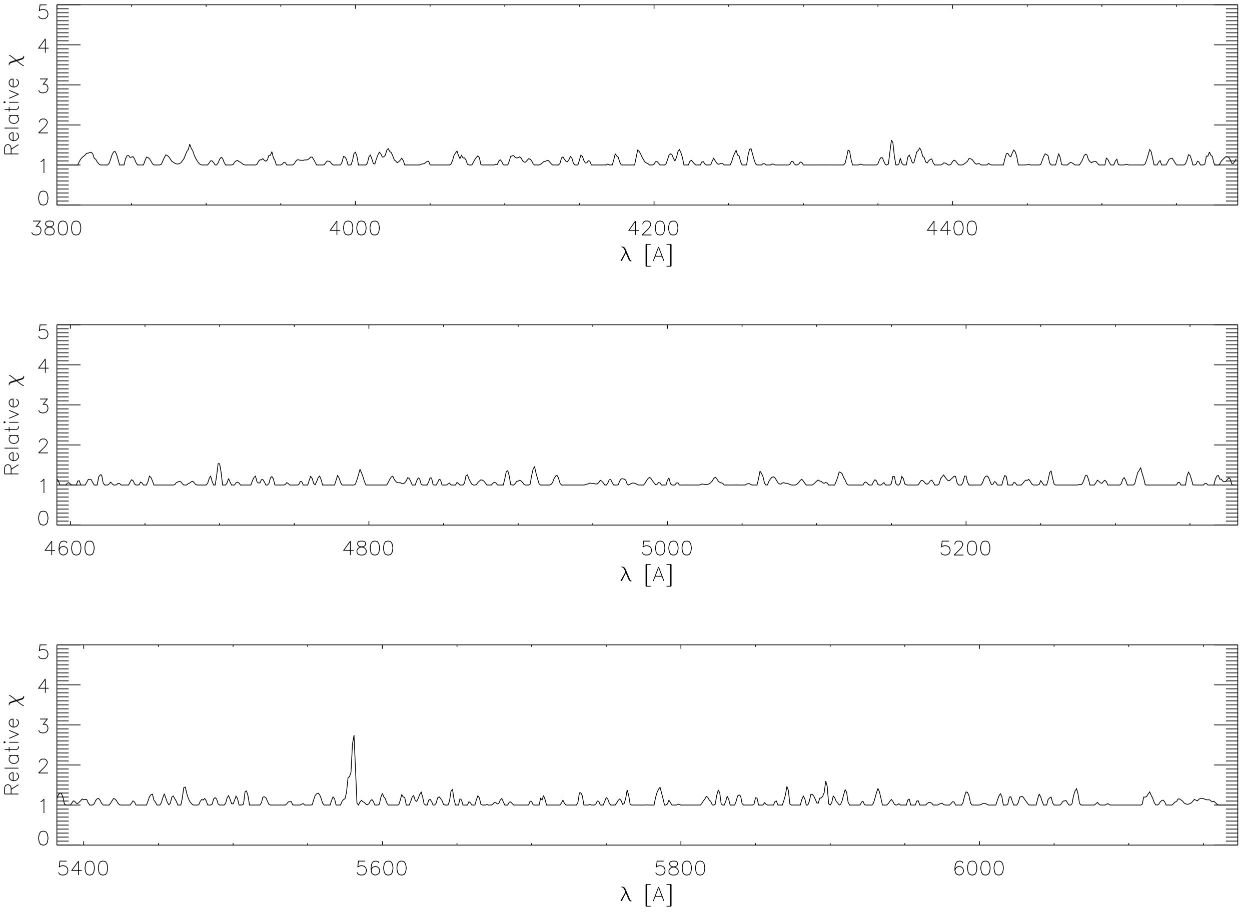


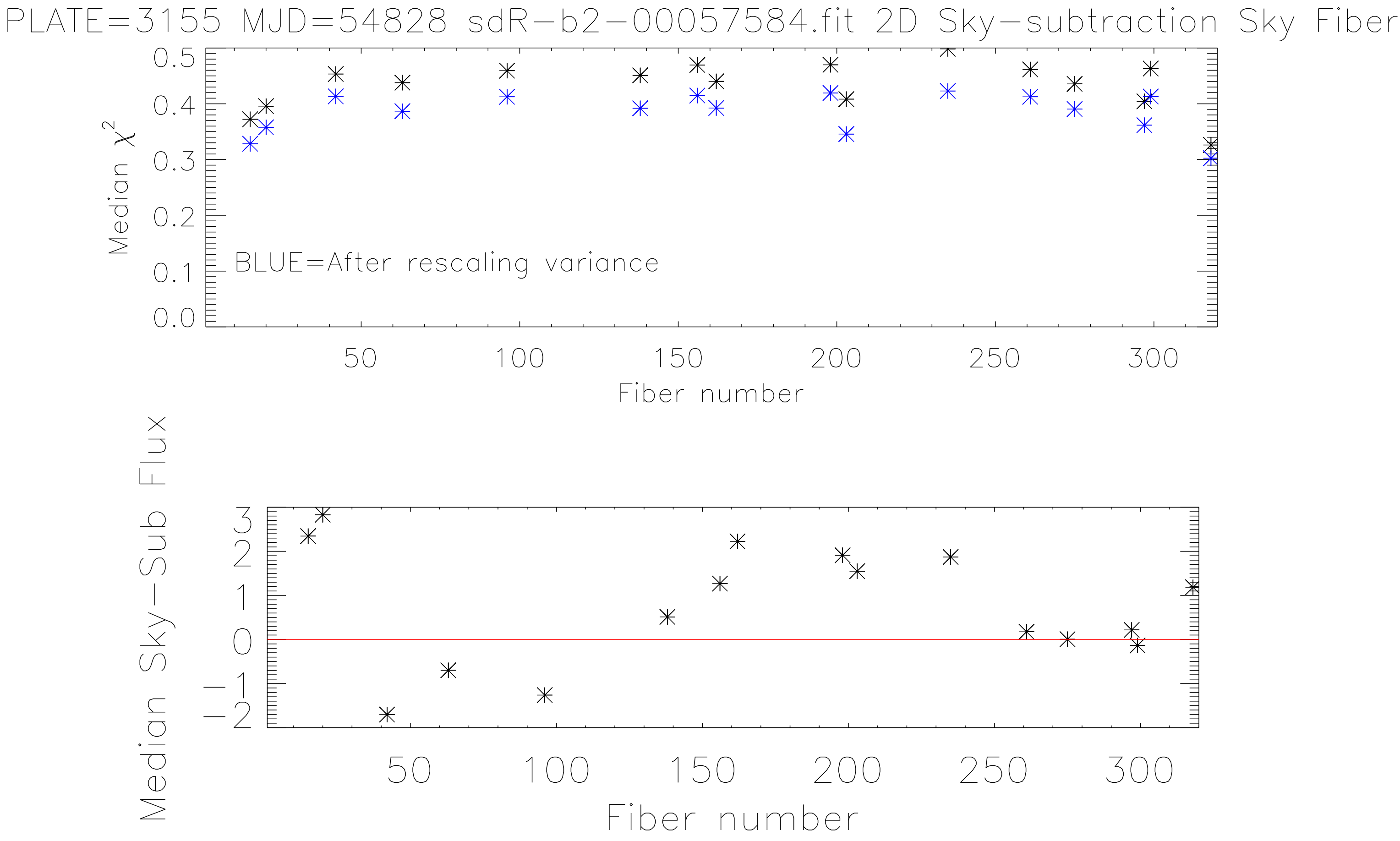
PLATE=3155 MJD=54828 sdR-b2-00057584.fit 1D Sky-subtraction Sky-subtracted Sky F

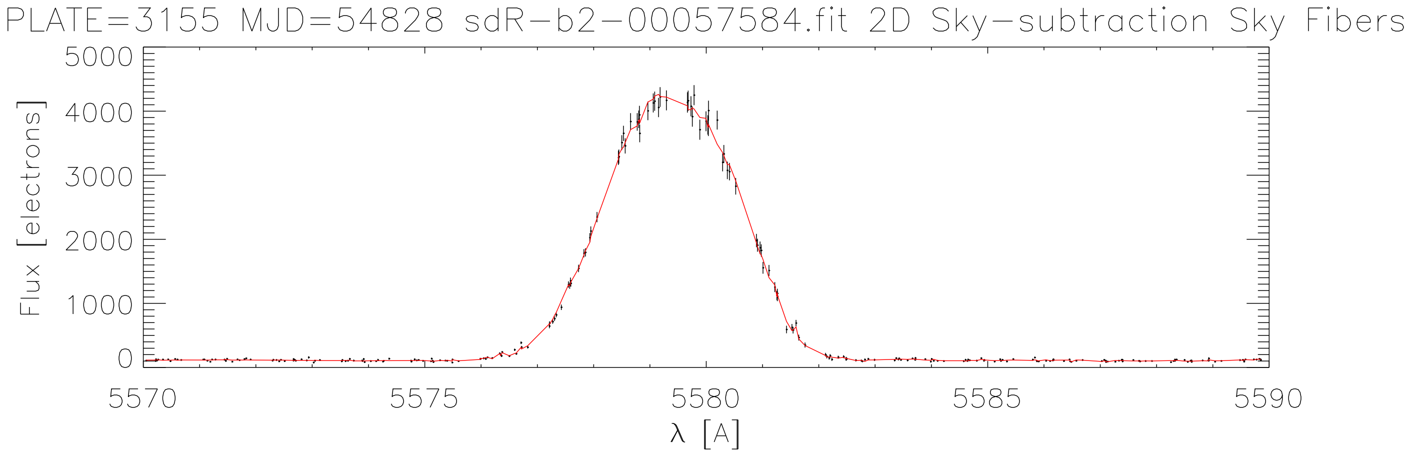


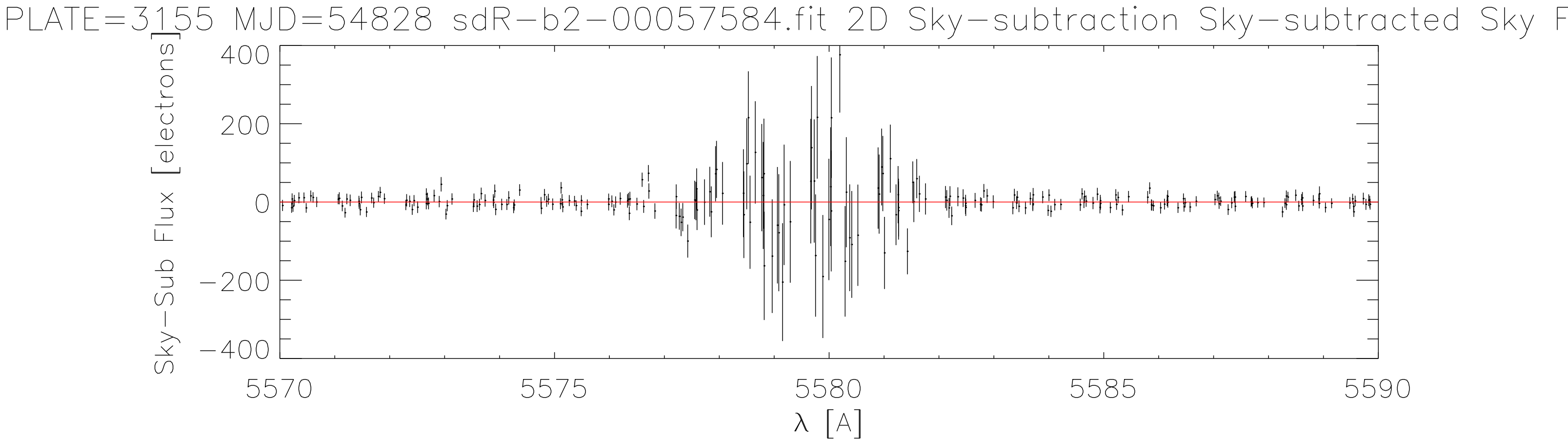
Number of sky fibers = 16

PLATE=3155 MJD=54828 sdR-b2-00057584.fit 1D Sky-subtraction Rescaled Errors



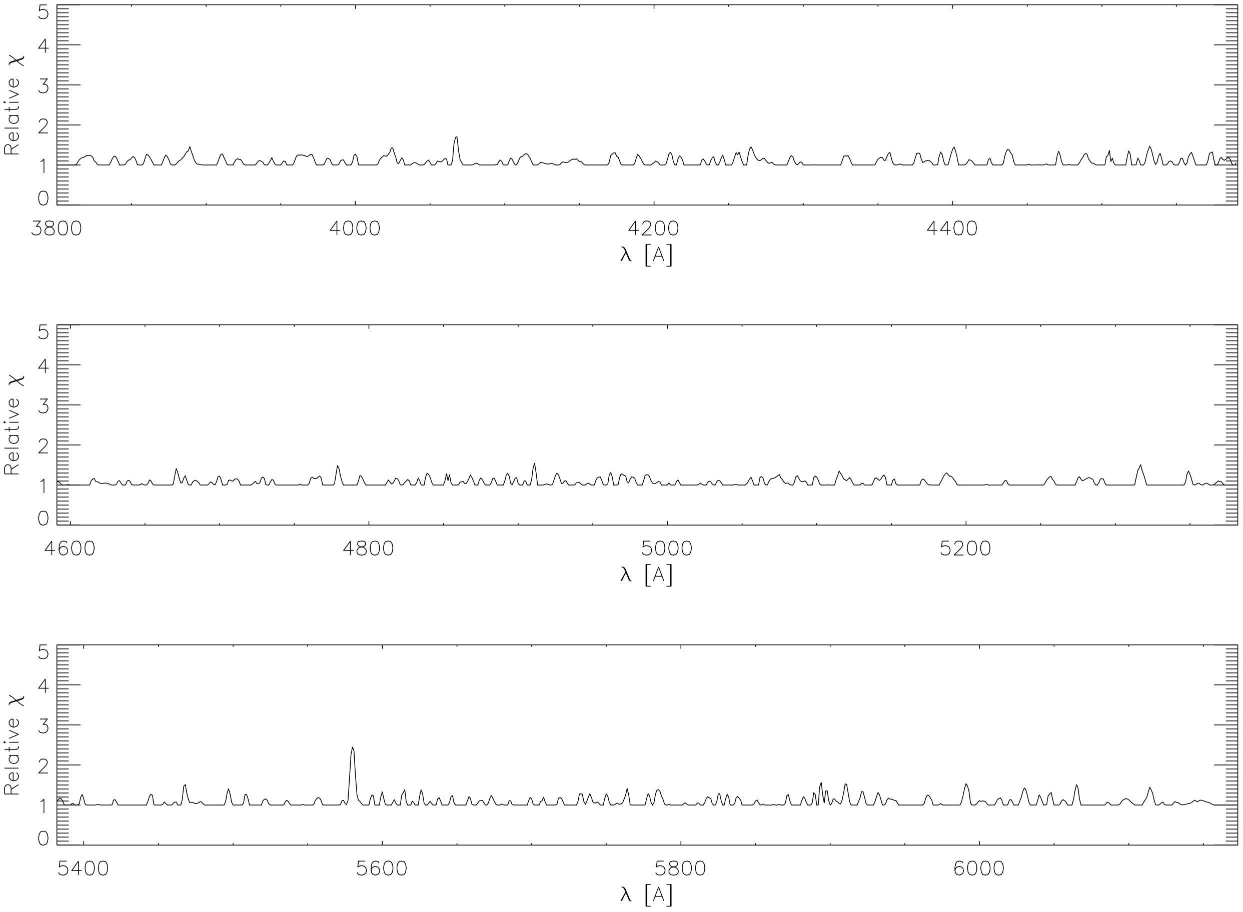

PLATE=3155 MJD=54828 sdR-b2-00057584.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
50
100
150
200
250
300
Fiber number

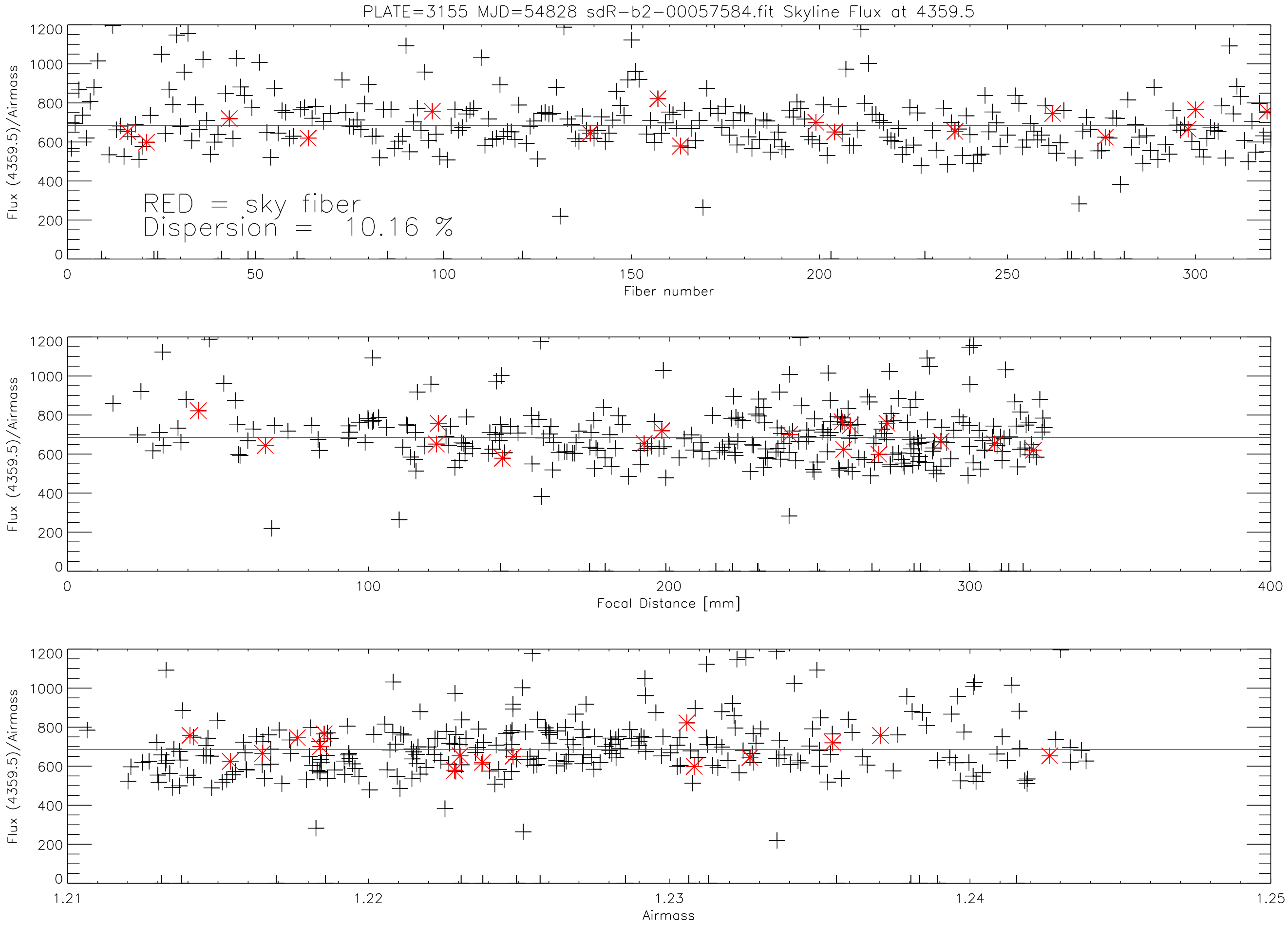

PLATE=3155 MJD=54828 sdR-b2-00057584.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

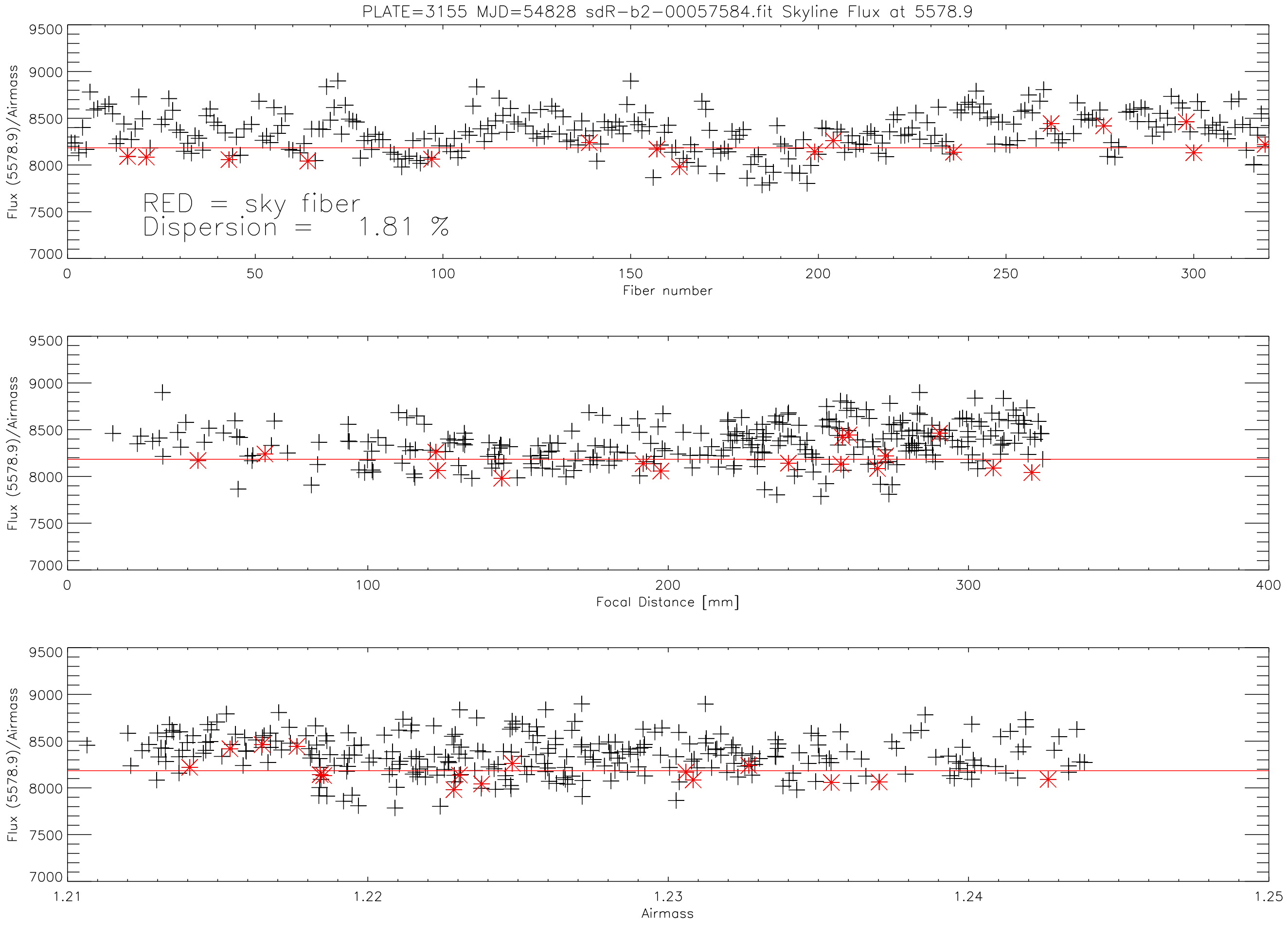

PLATE=3155 MJD=54828 sdR-b2-00057584.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
-200
-400
5570
5575
5580
5585
5590
λ [A]

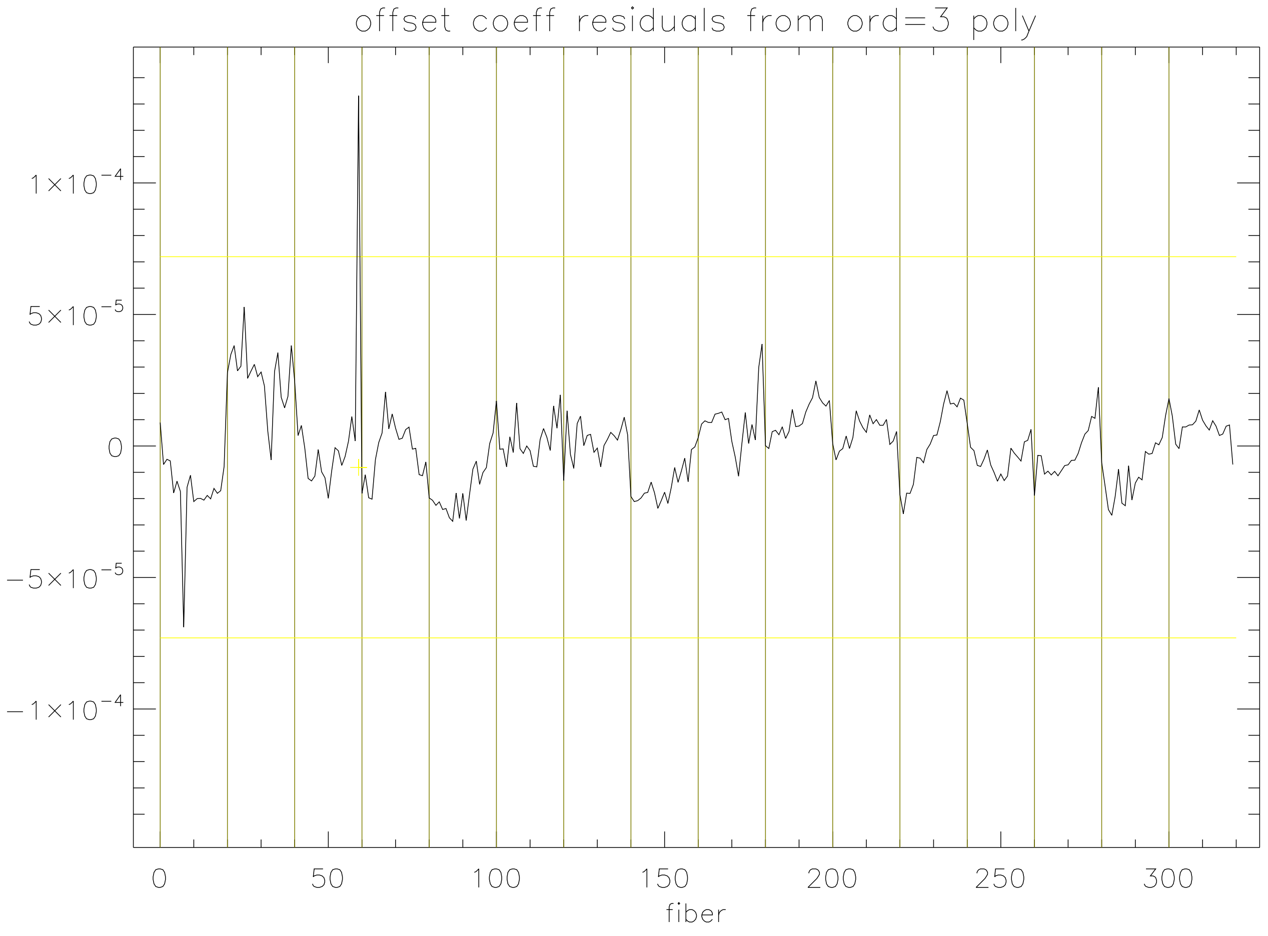
Number of sky fibers = 16

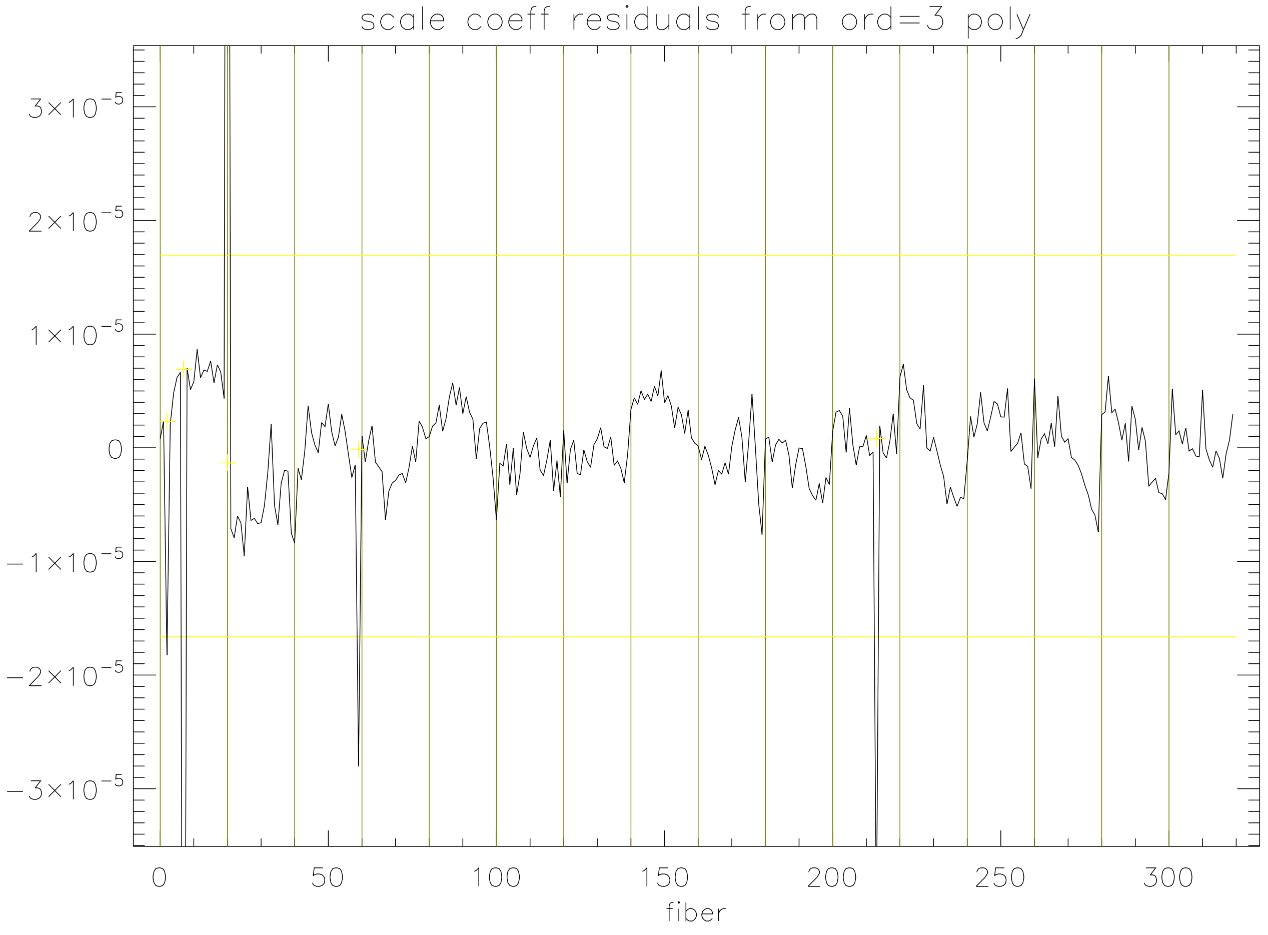
PLATE=3155 MJD=54828 sdR-b2-00057584.fit 2D Sky-subtraction Rescaled Errors

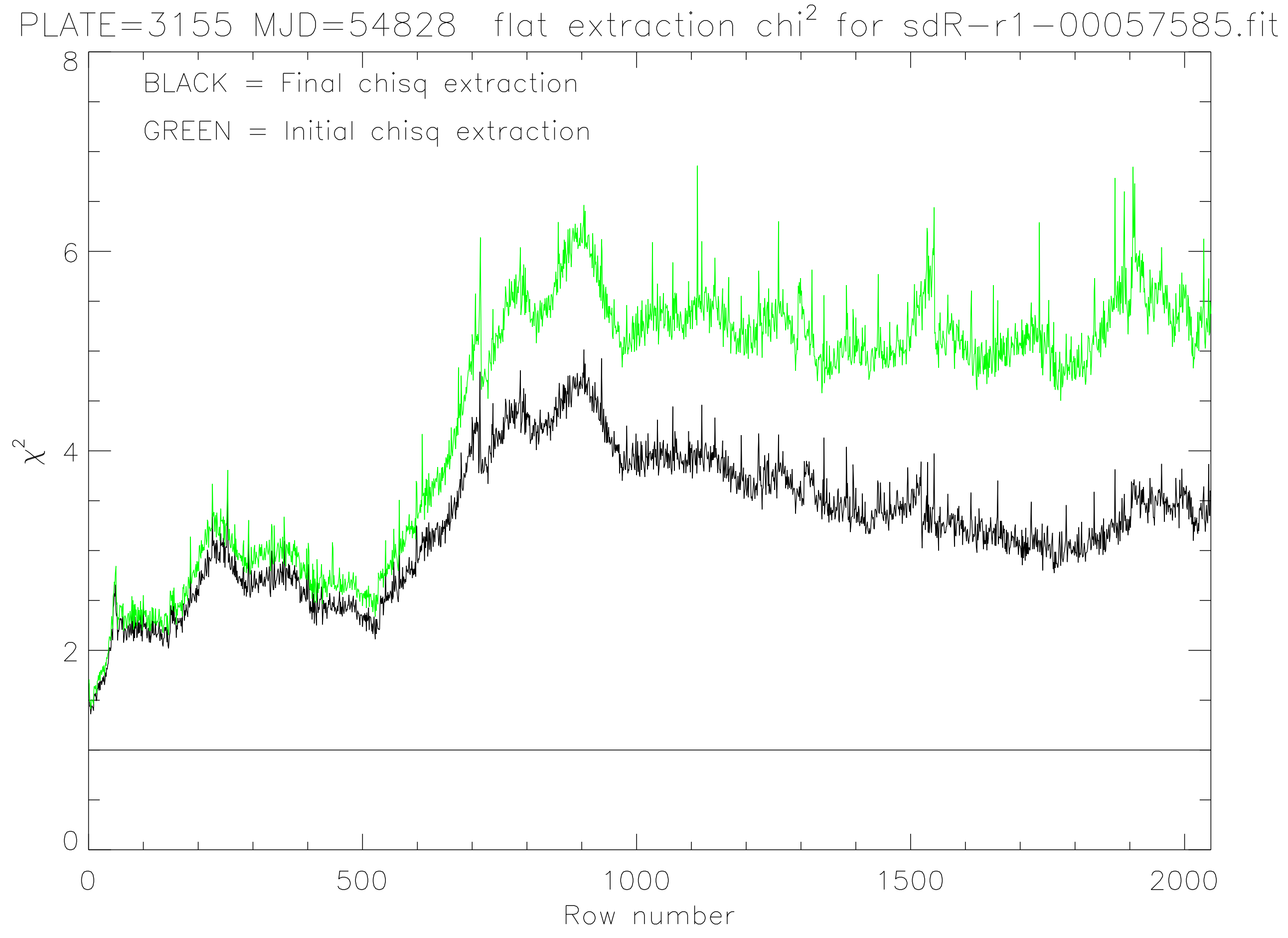


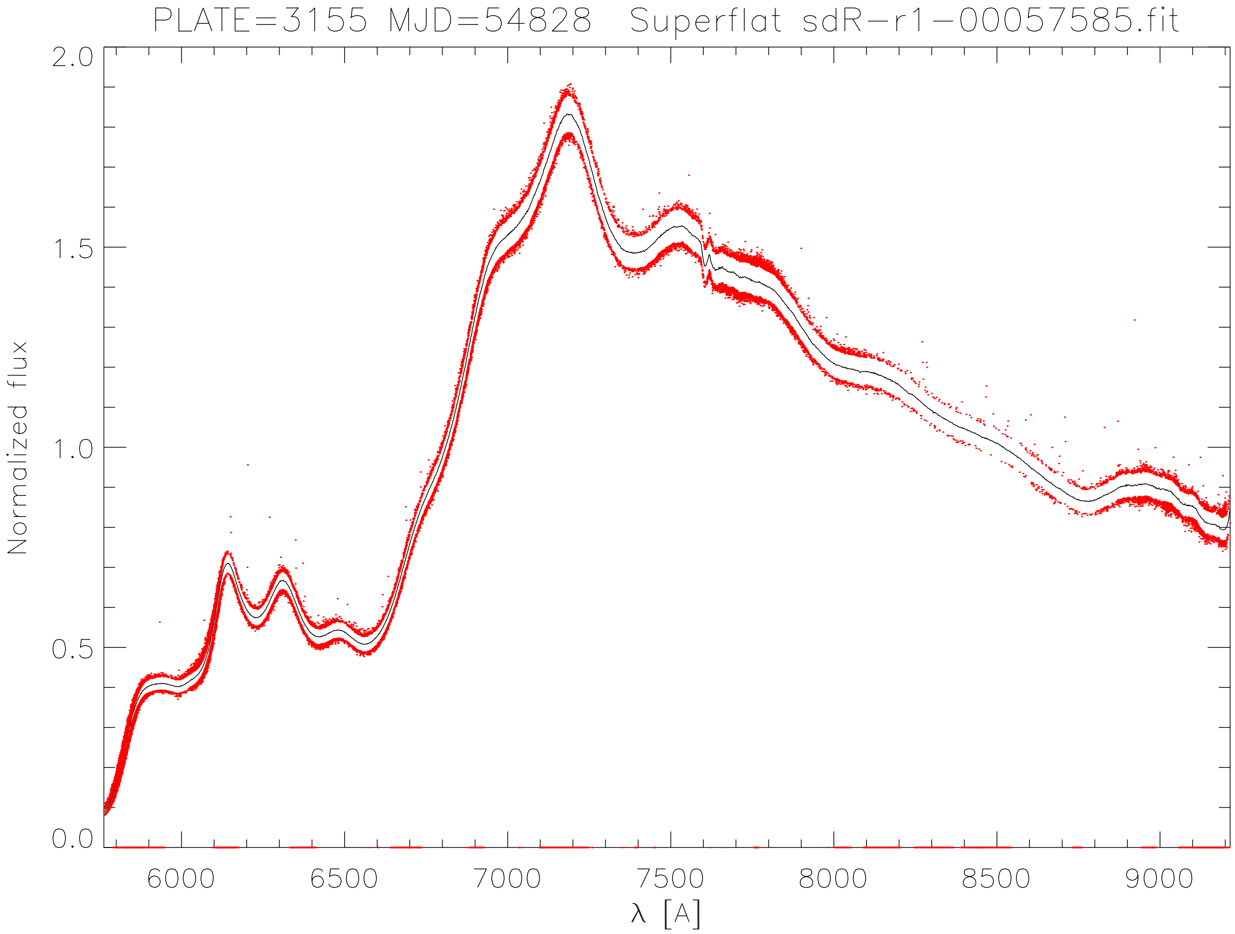

PLATE=3155 MJD=54828 sdR-b2-00057584.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
0
200
400
600
800
1000
1200
RED = sky fiber
Dispersion = 10.16 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
1.21
1.22
1.23
1.24
1.25
Airmass

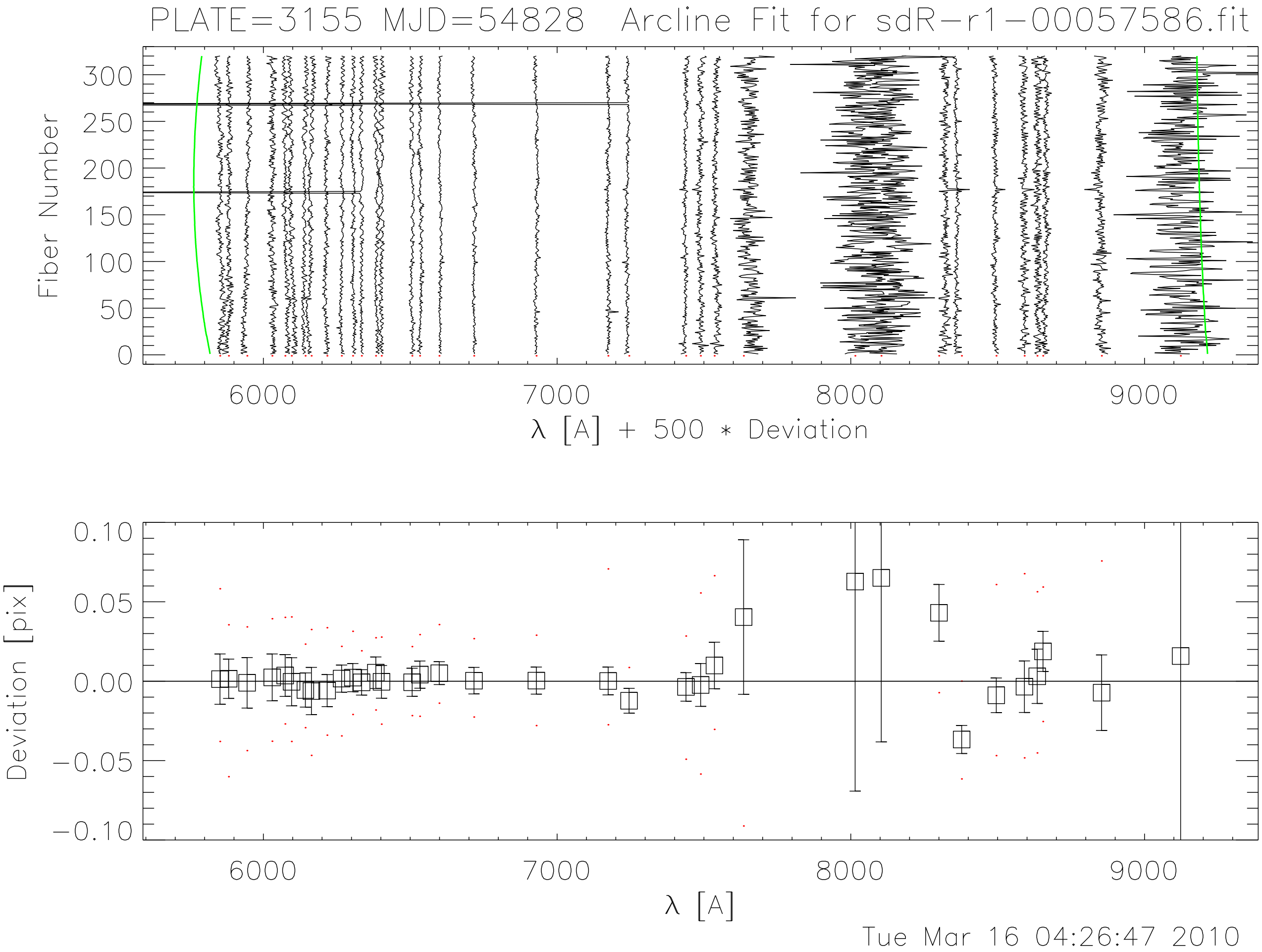

PLATE=3155 MJD=54828 sdR-b2-00057584.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
9500
9000
8500
8000
7500
7000
RED = sky fiber
Dispersion = 1.81 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
9500
9000
8500
8000
7500
7000
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
9500
9000
8500
8000
7500
7000
1.21
1.22
1.23
1.24
1.25
Airmass

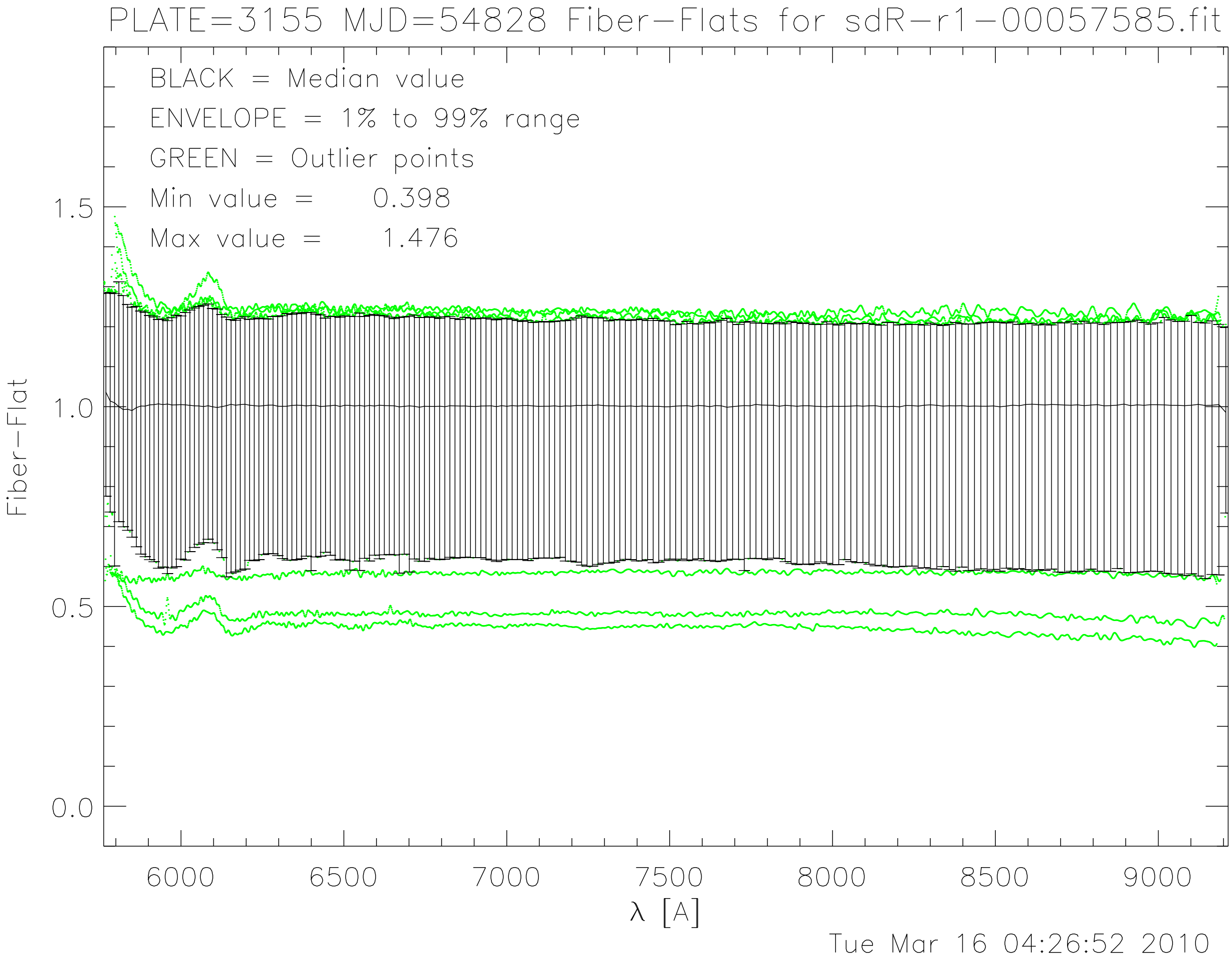

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

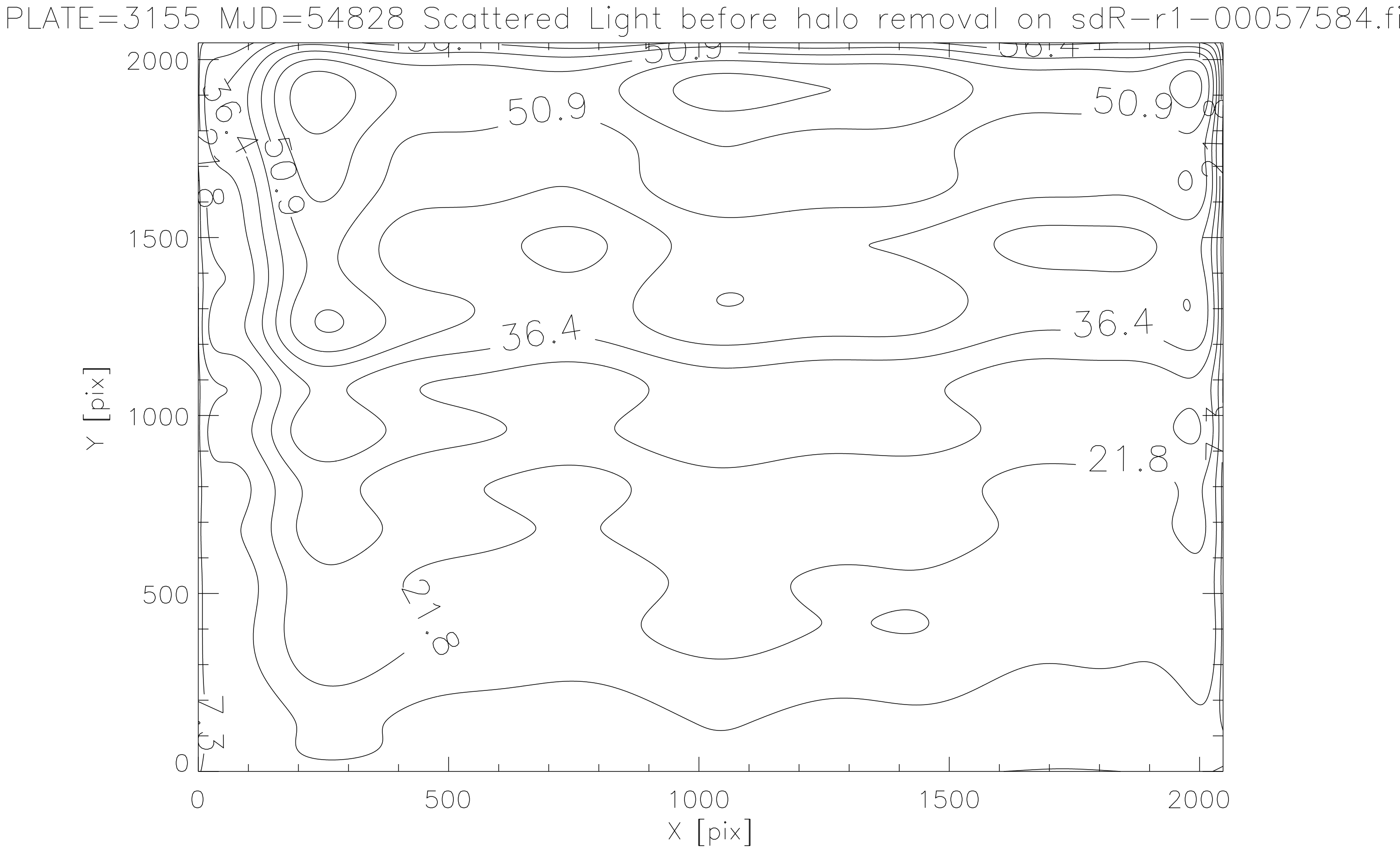

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

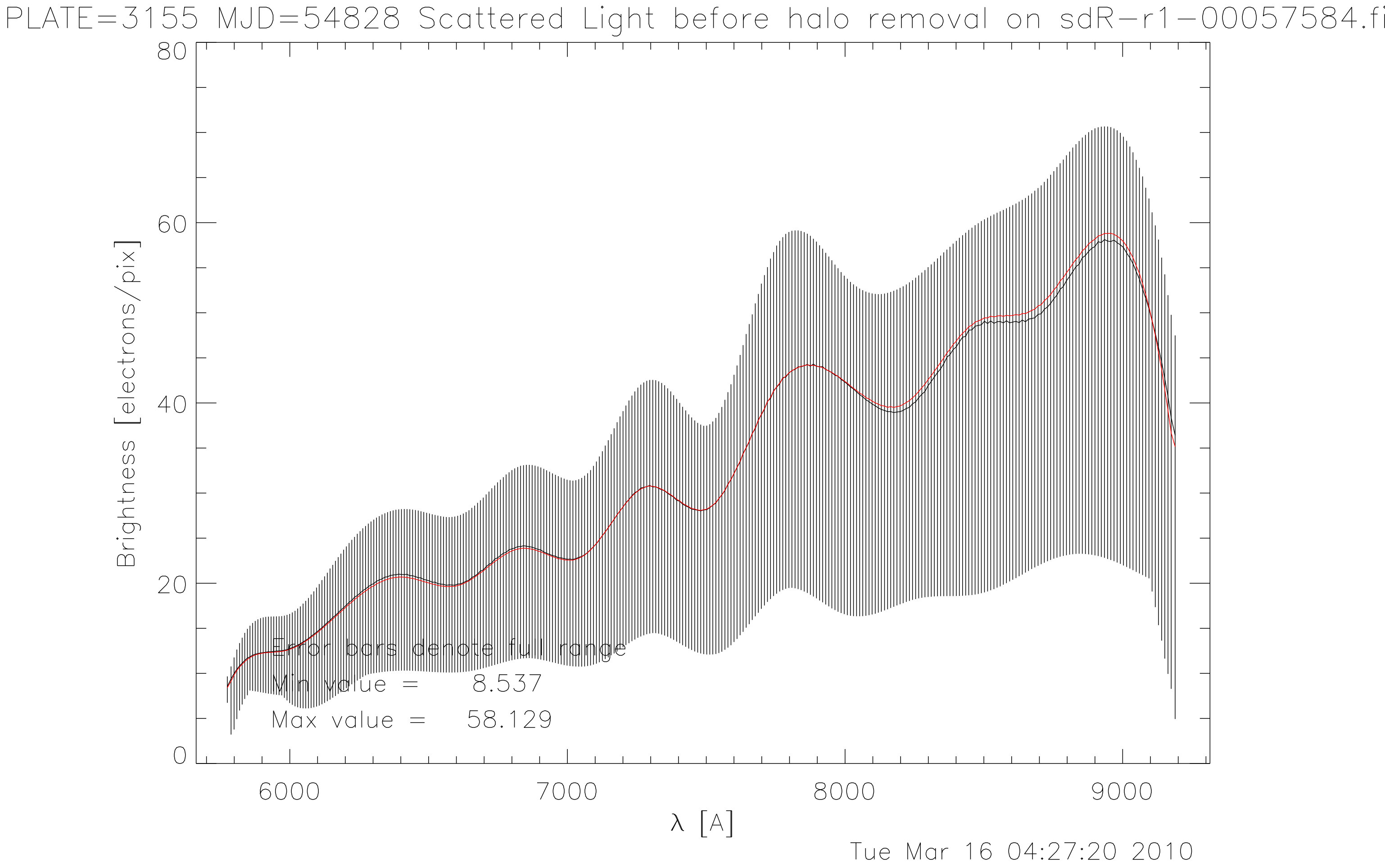

PLATE=3155 MJD=54828 flat extraction chi^2 for sdR-r1-00057585.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number


PLATE=3155 MJD=54828 Superflat sdR-r1-00057585.fit
Normalized flux
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

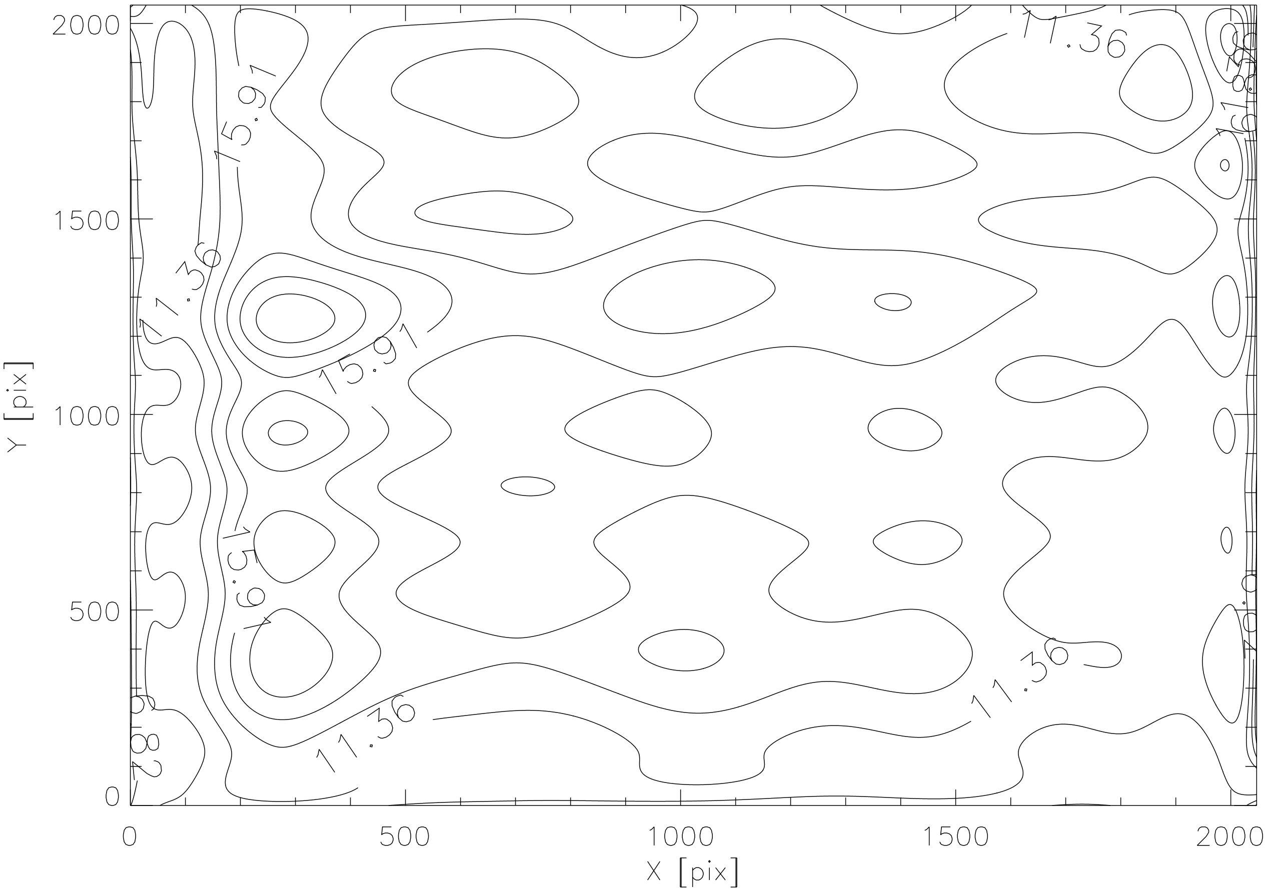

PLATE=3155 MJD=54828 Arcline Fit for sdR-r1-00057586.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Tue Mar 16 04:26:47 2010

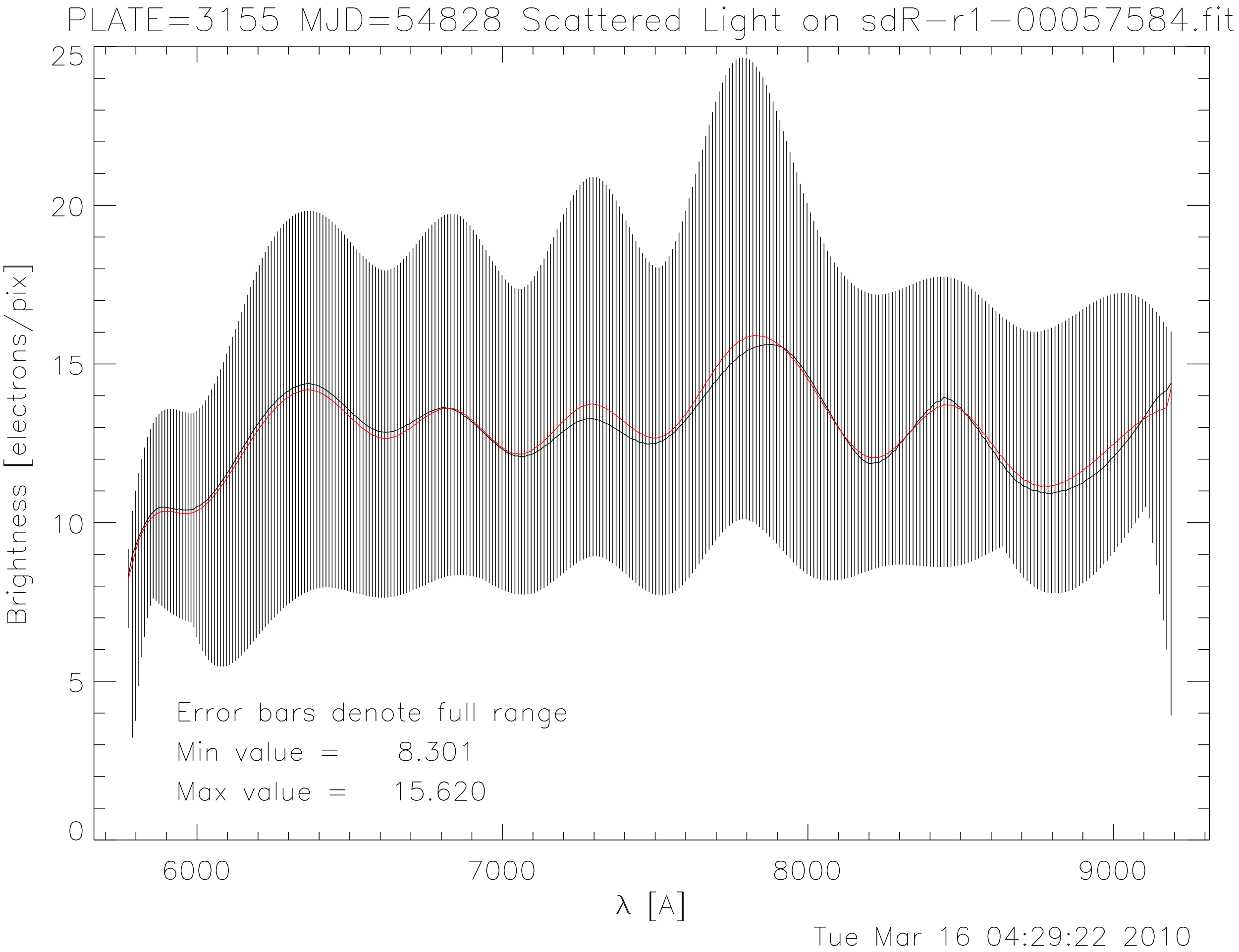

PLATE=3155 MJD=54828 Fiber−Flats for sdR−r1−00057585.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.398
Max value = 1.476
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Mar 16 04:26:52 2010

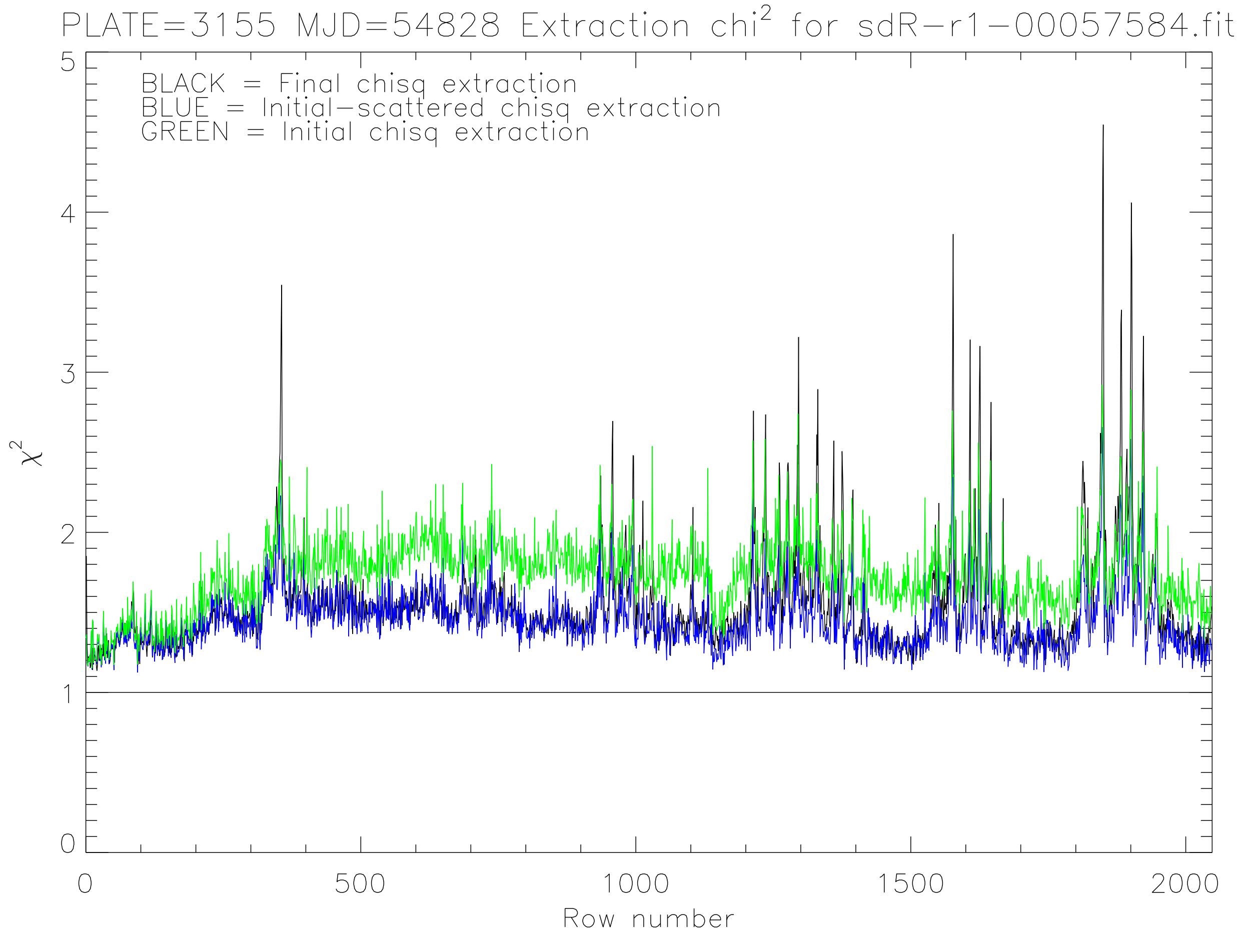

PLATE=3155 MJD=54828 Scattered Light before halo removal on sdR-r1-00057584.fi

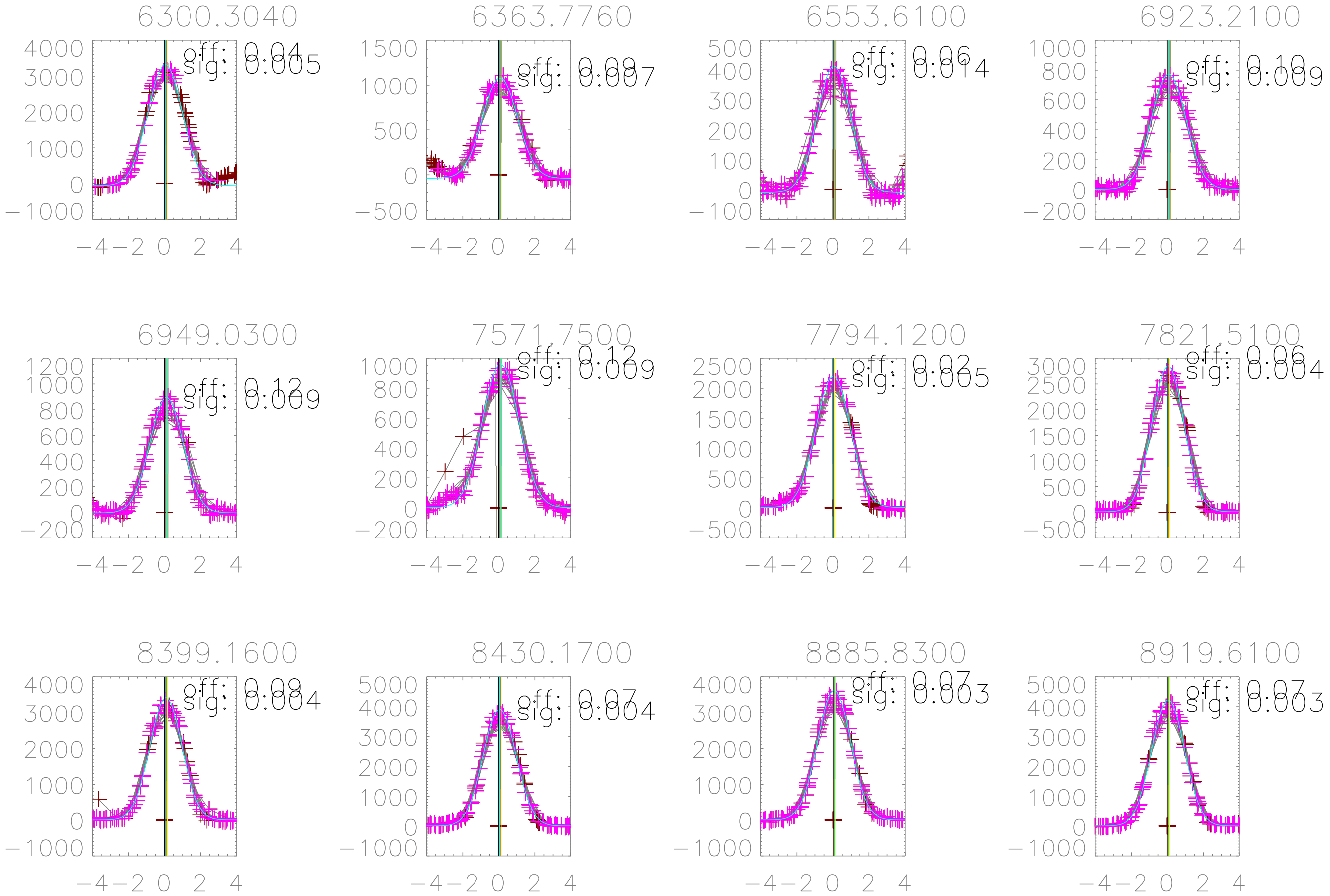

PLATE=3155 MJD=54828 Scattered Light before halo removal on sdR-r1-00057584.fi
Brightness [electrons/pix]
0
20
40
60
80
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 8.537
Max value = 58.129
Tue Mar 16 04:27:20 2010

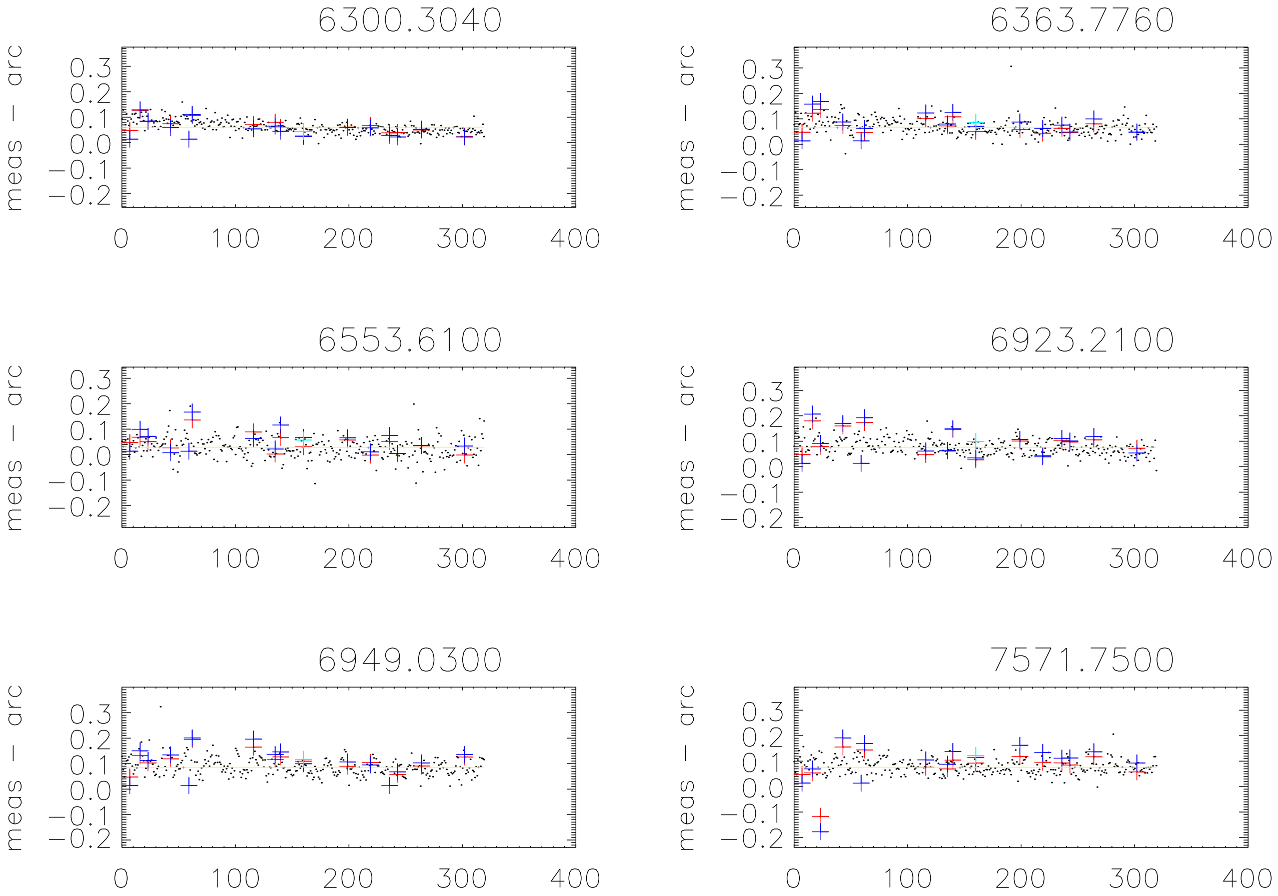
PLATE=3155 MJD=54828 Scattered Light on sdR-r1-00057584.fit



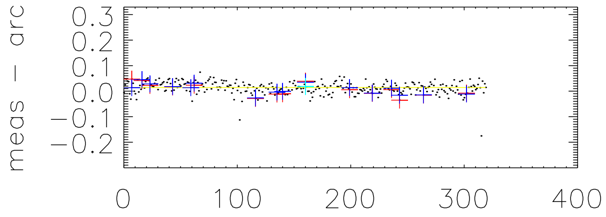

PLATE=3155 MJD=54828 Scattered Light on sdR-r1-00057584.fit
Brightness [electrons/pix]
25
20
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 8.301
Max value = 15.620
Tue Mar 16 04:29:22 2010


PLATE=3155 MJD=54828 Extraction chi^2 for sdR-r1-00057584.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

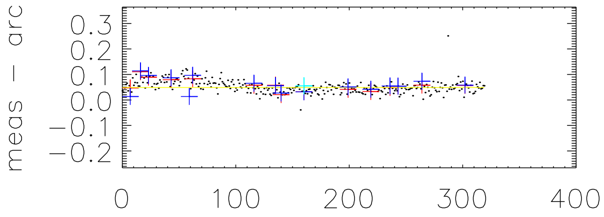

6300.3040
off: 0.04
sig: 0.005
6363.7760
off: 0.08
sig: 0.007
6553.6100
off: 0.06
sig: 0.014
6923.2100
off: 0.10
sig: 0.009
6949.0300
off: 0.12
sig: 0.009
7571.7500
off: 0.12
sig: 0.009
7794.1200
off: 0.02
sig: 0.005
7821.5100
off: 0.06
sig: 0.004
8399.1600
off: 0.08
sig: 0.004
8430.1700
off: 0.07
sig: 0.004
8885.8300
off: 0.07
sig: 0.003
8919.6100
off: 0.07
sig: 0.003
−4 −2 0 2 4


6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

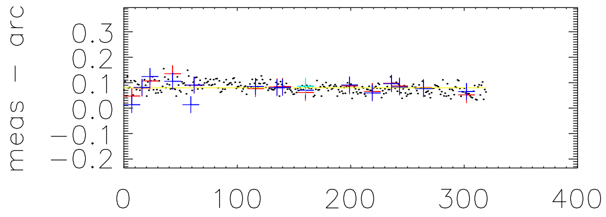
7794.1200



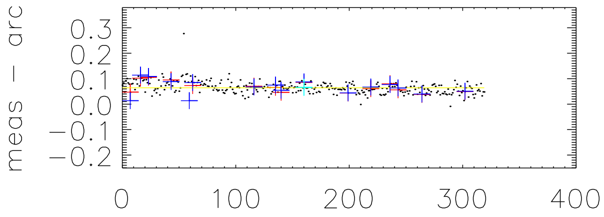
7821.5100



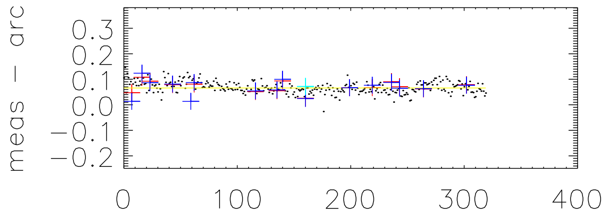
8399.1600



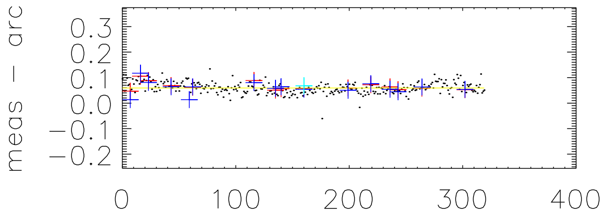
8430.1700

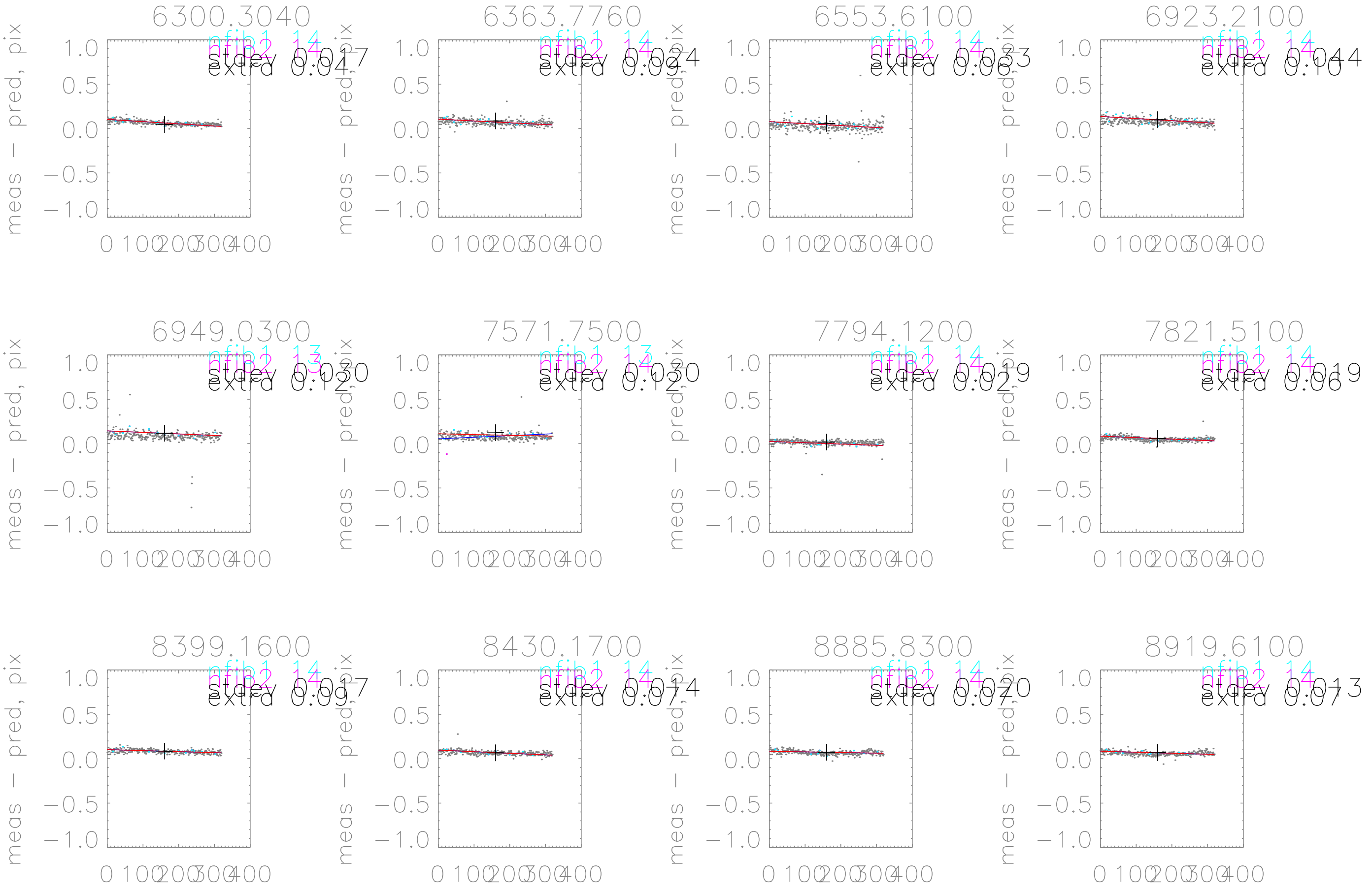


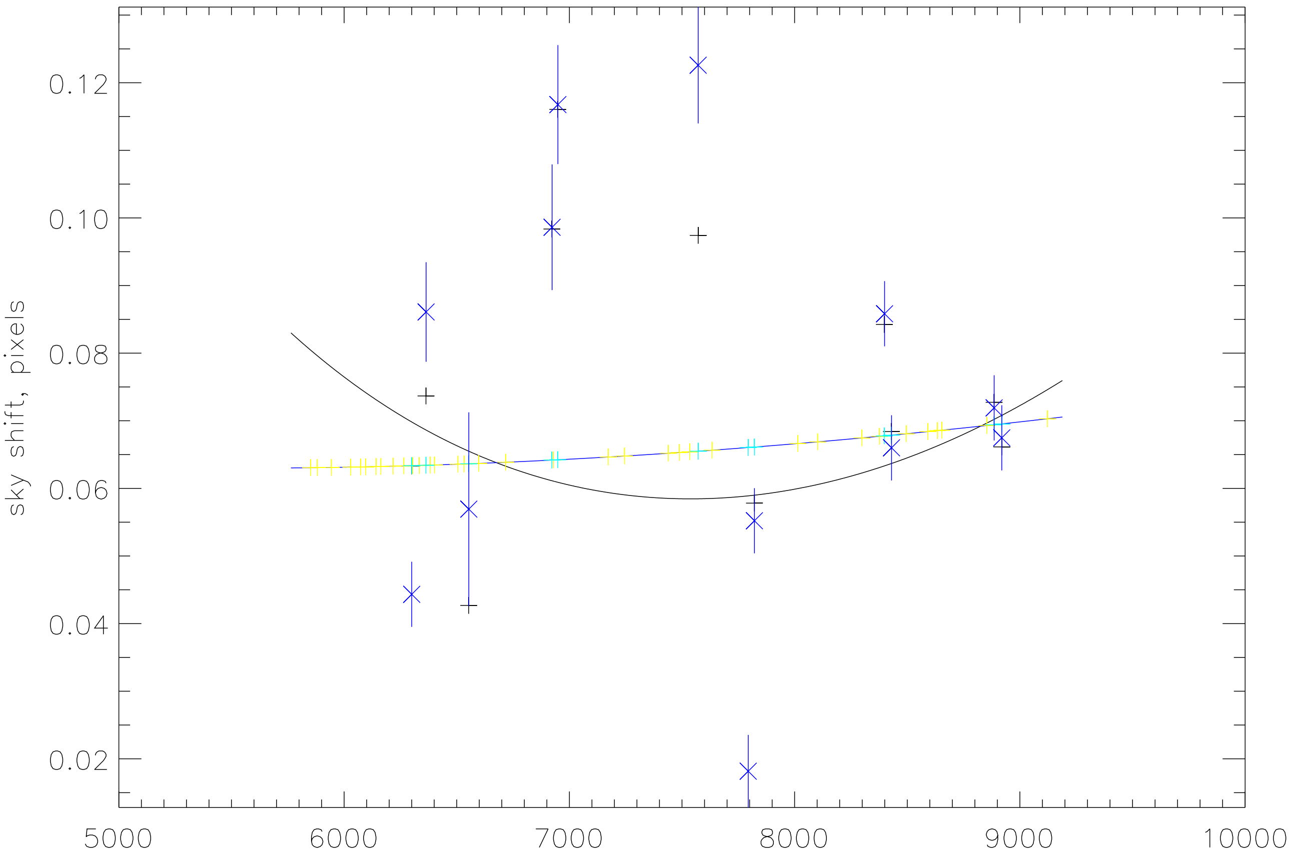
8885.8300

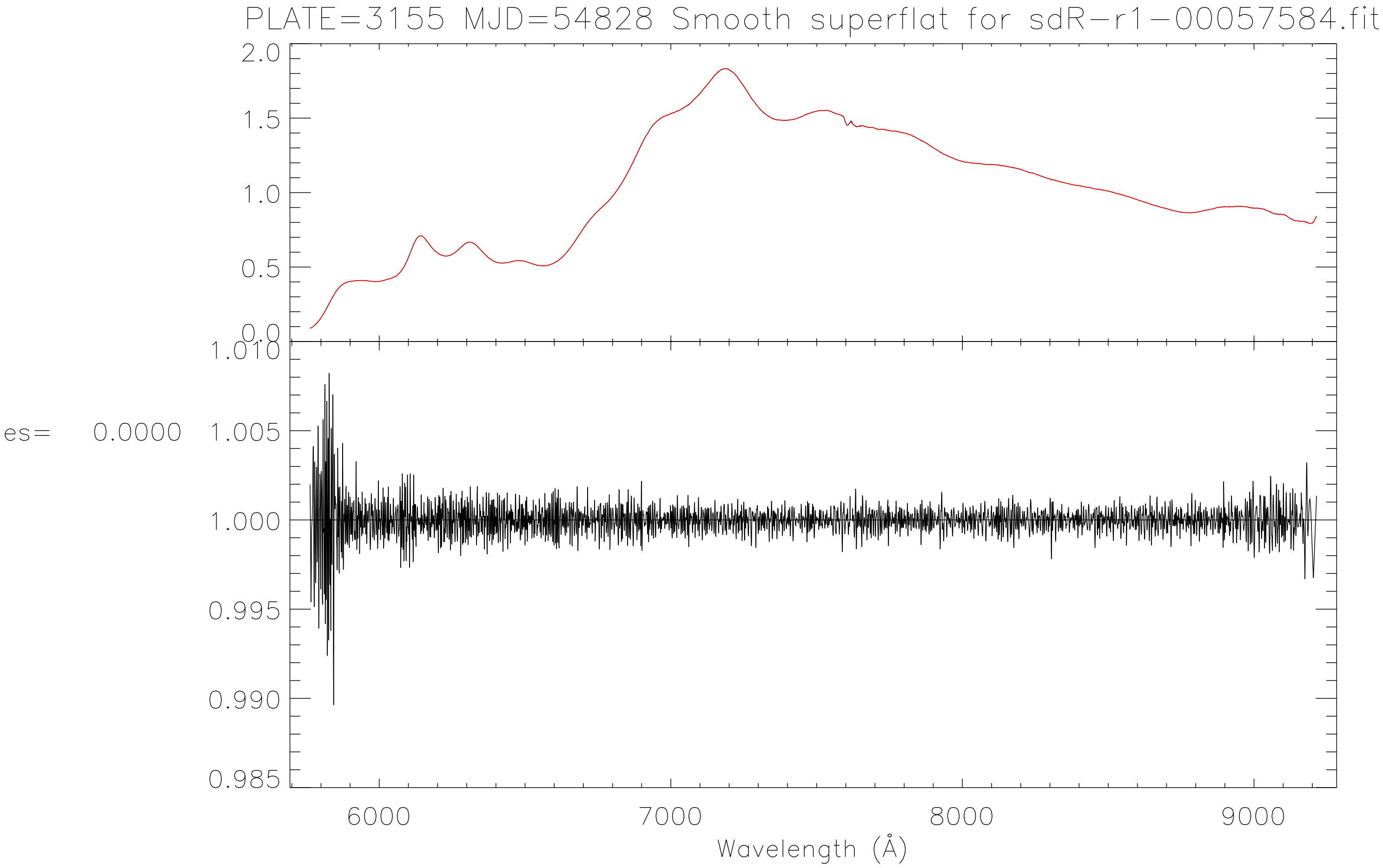


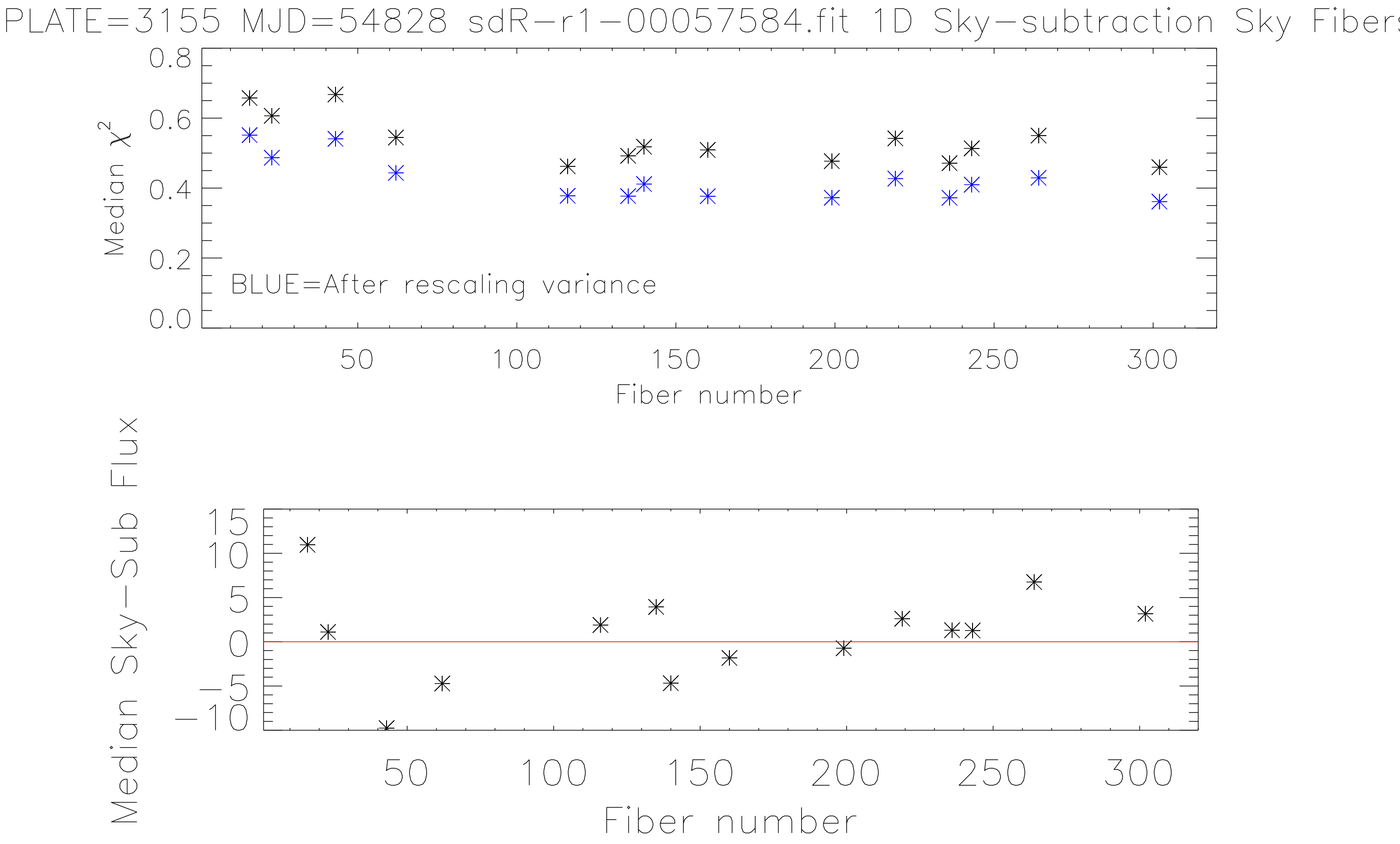
8919.6100

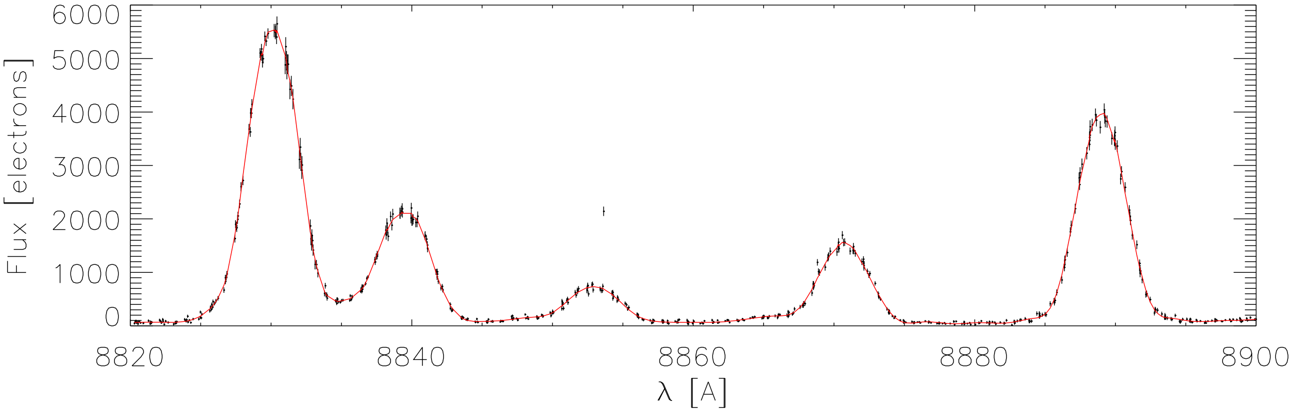



6300.3040
nfib1 14
nfib2 14
stdev 0.017
extrd 0.04
6363.7760
nfib1 14
nfib2 14
stdev 0.024
extrd 0.09
6553.6100
nfib1 14
nfib2 14
stdev 0.033
extrd 0.06
6923.2100
nfib1 14
nfib2 14
stdev 0.044
extrd 0.10
6949.0300
nfib1 13
nfib2 13
stdev 0.030
extrd 0.12
7571.7500
nfib1 13
nfib2 14
stdev 0.030
extrd 0.12
7794.1200
nfib1 14
nfib2 14
stdev 0.019
extrd 0.02
7821.5100
nfib1 14
nfib2 14
stdev 0.019
extrd 0.06
8399.1600
nfib1 14
nfib2 14
stdev 0.017
extrd 0.09
8430.1700
nfib1 14
nfib2 14
stdev 0.014
extrd 0.07
8885.8300
nfib1 14
nfib2 14
stdev 0.020
extrd 0.07
8919.6100
nfib1 14
nfib2 14
stdev 0.013
extrd 0.07
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

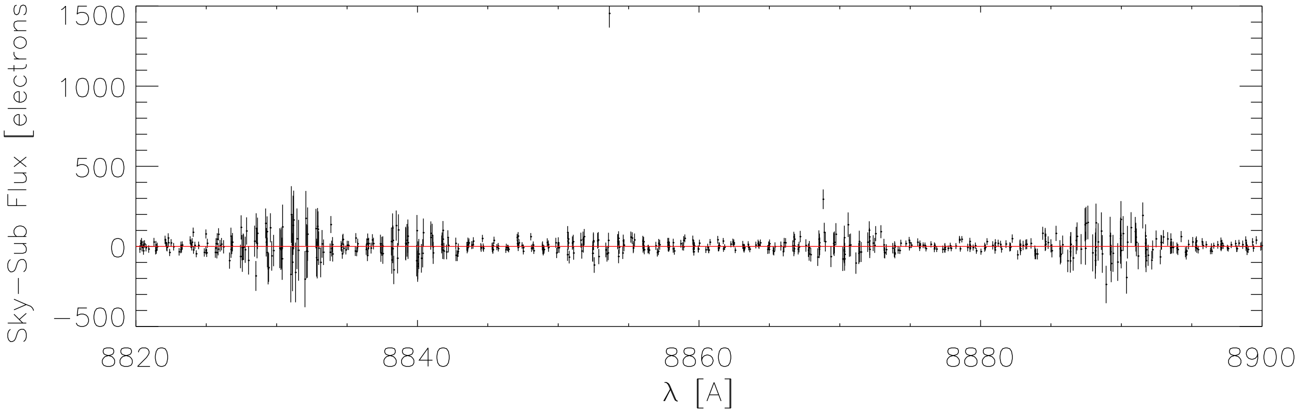

sky shift, pixels
0.02
0.04
0.06
0.08
0.10
0.12
5000
6000
7000
8000
9000
10000


PLATE=3155 MJD=54828 Smooth superflat for sdR-r1-00057584.fit

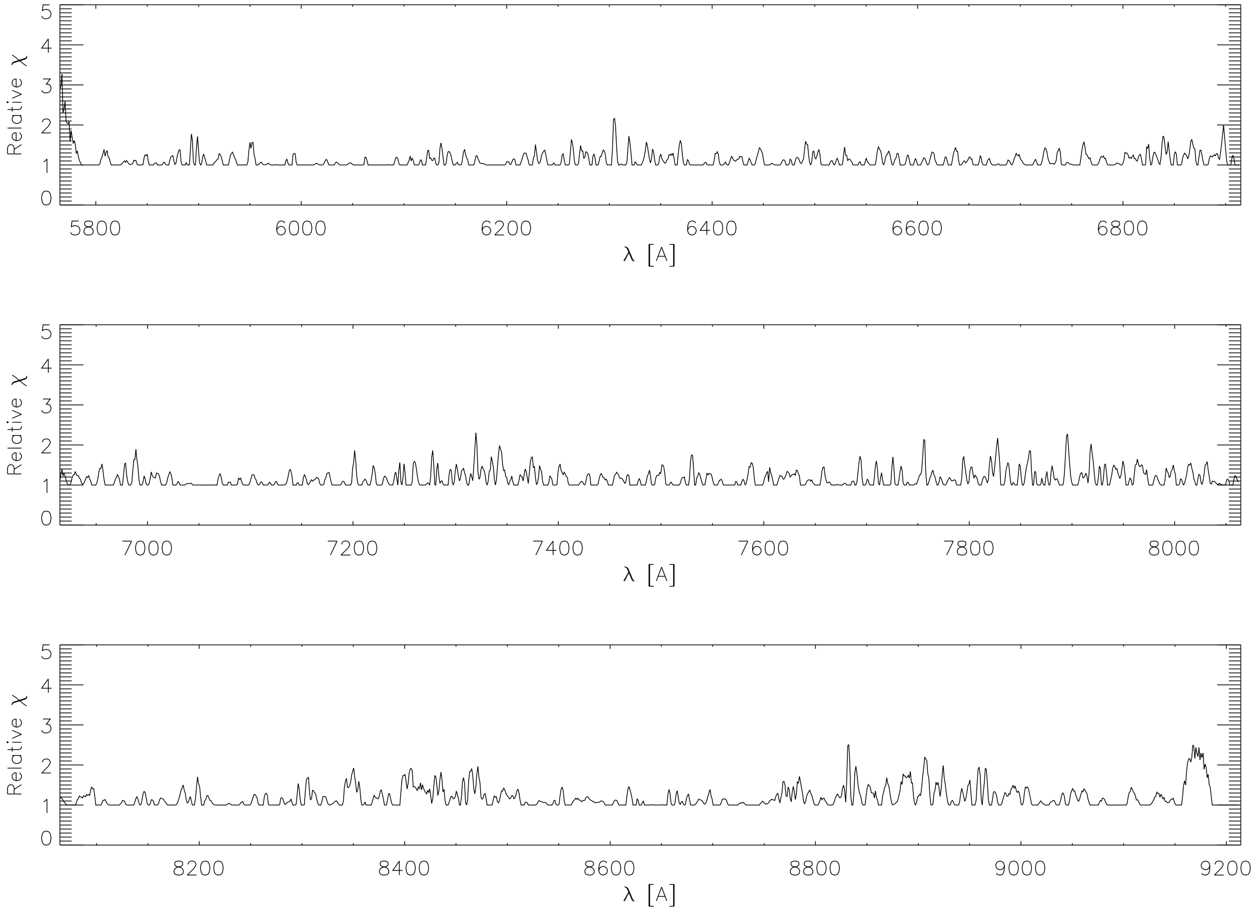

PLATE=3155 MJD=54828 sdR-r1-00057584.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−10
−5
0
5
10
15
50
100
150
200
250
300
Fiber number

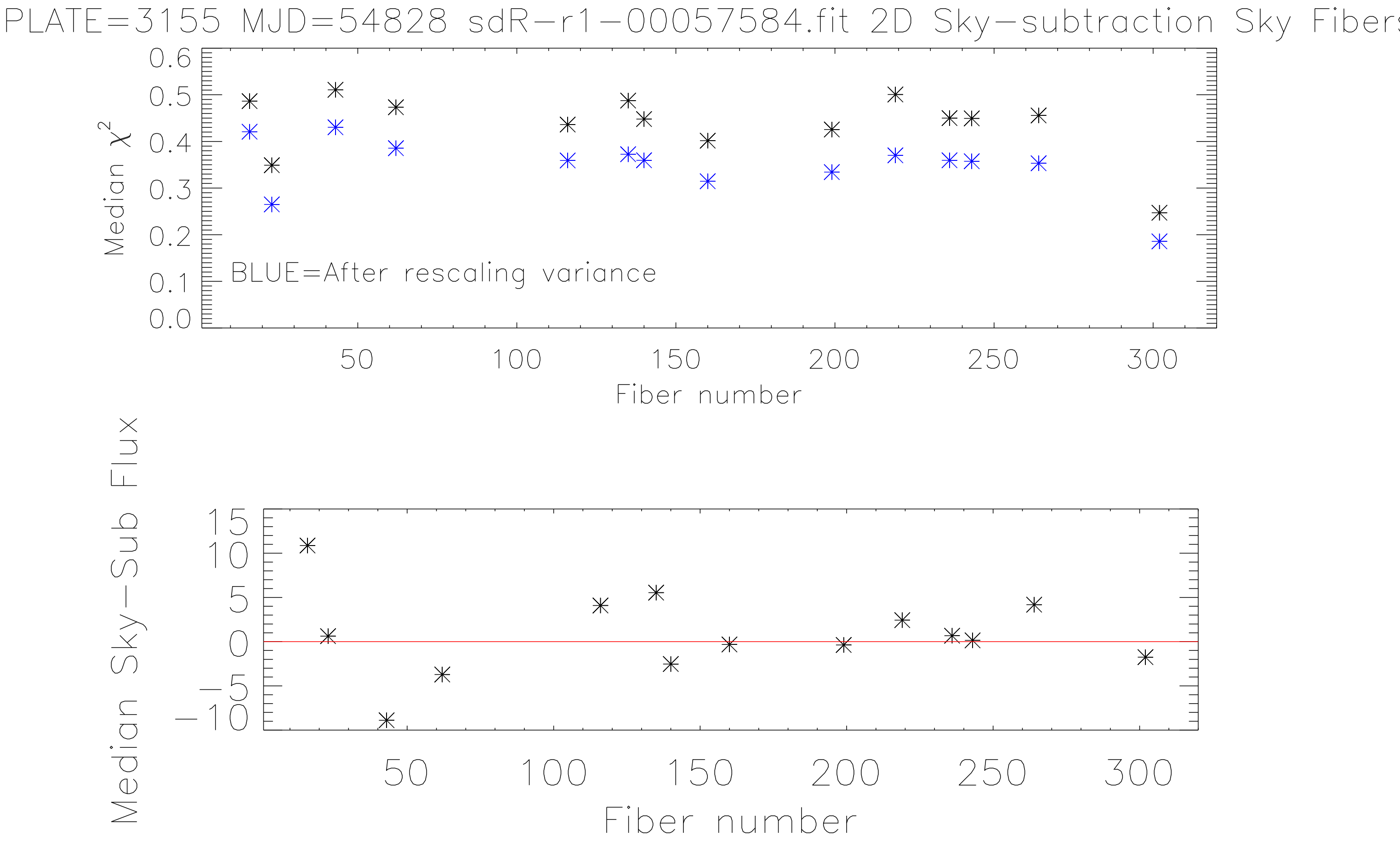


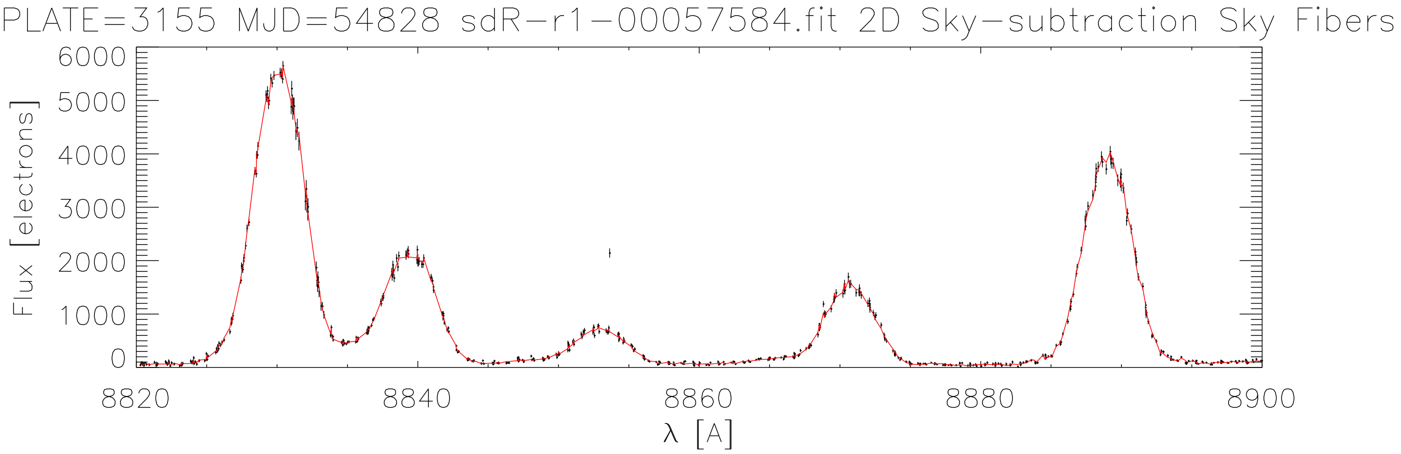
PLATE=3155 MJD=54828 sdR-r1-00057584.fit 1D Sky-subtraction Sky Fibers

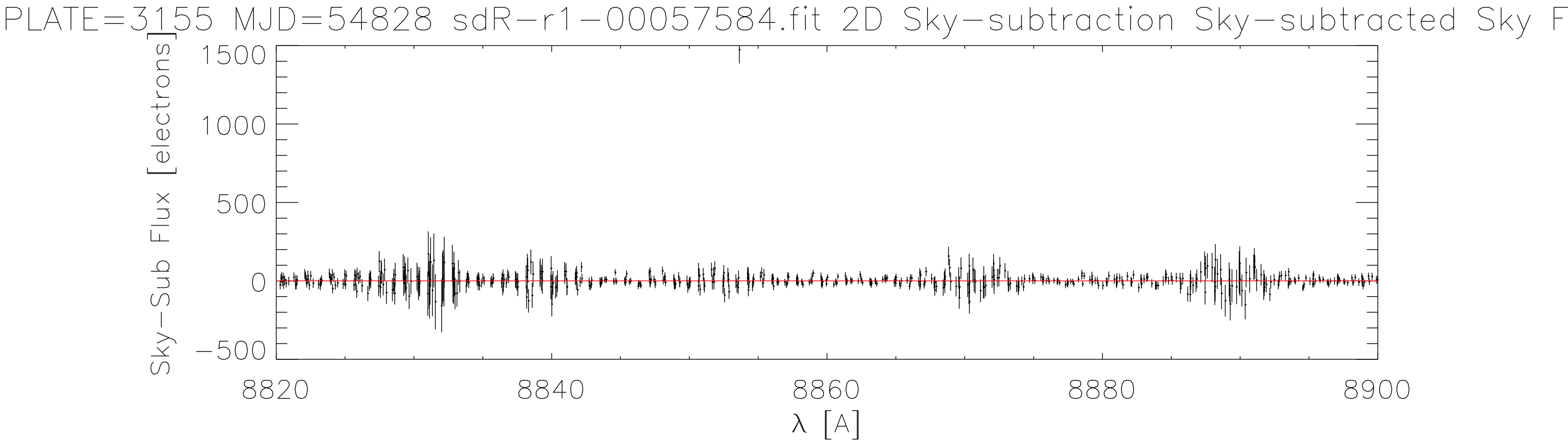


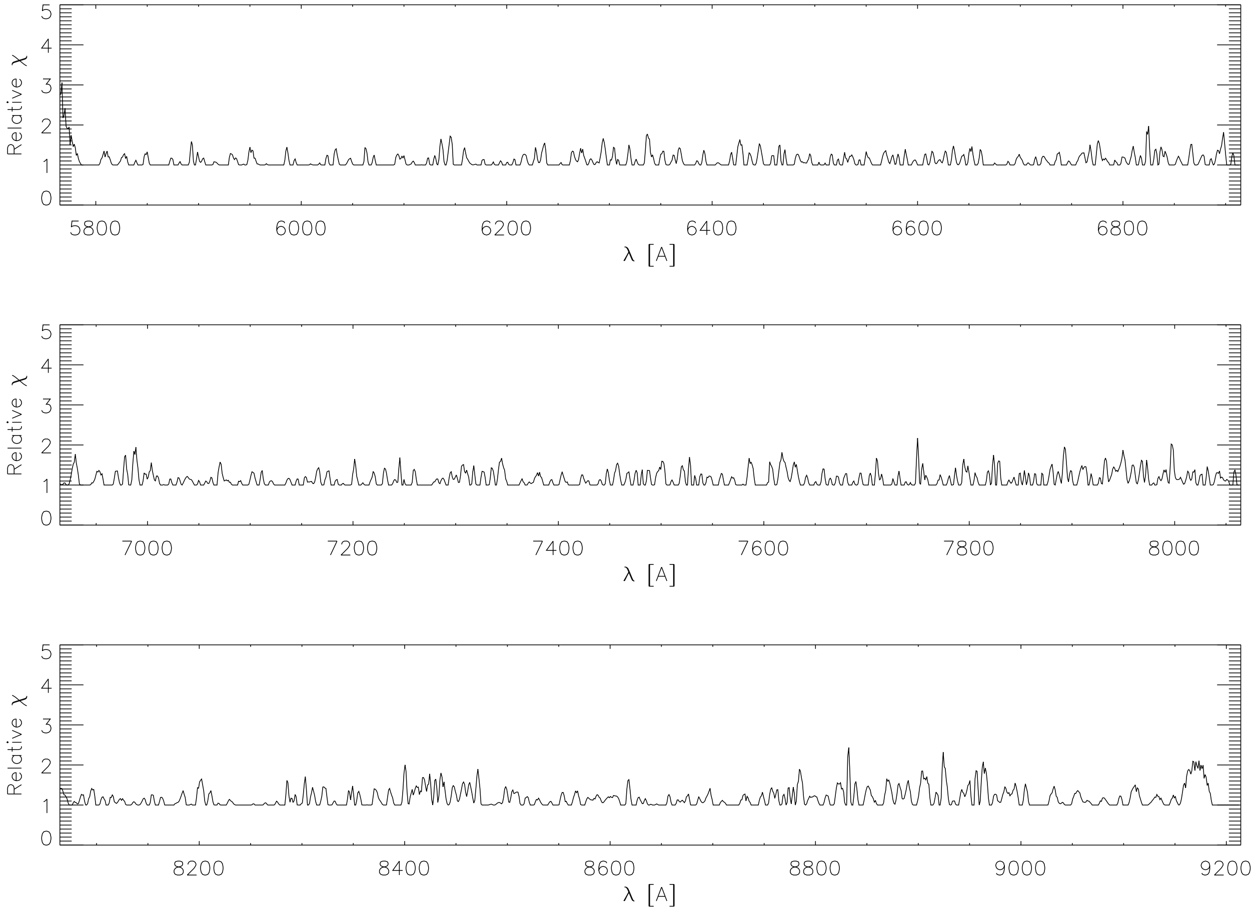
PLATE=3155 MJD=54828 sdR-r1-00057584.fit 1D Sky-subtraction Sky-subtracted Sky F





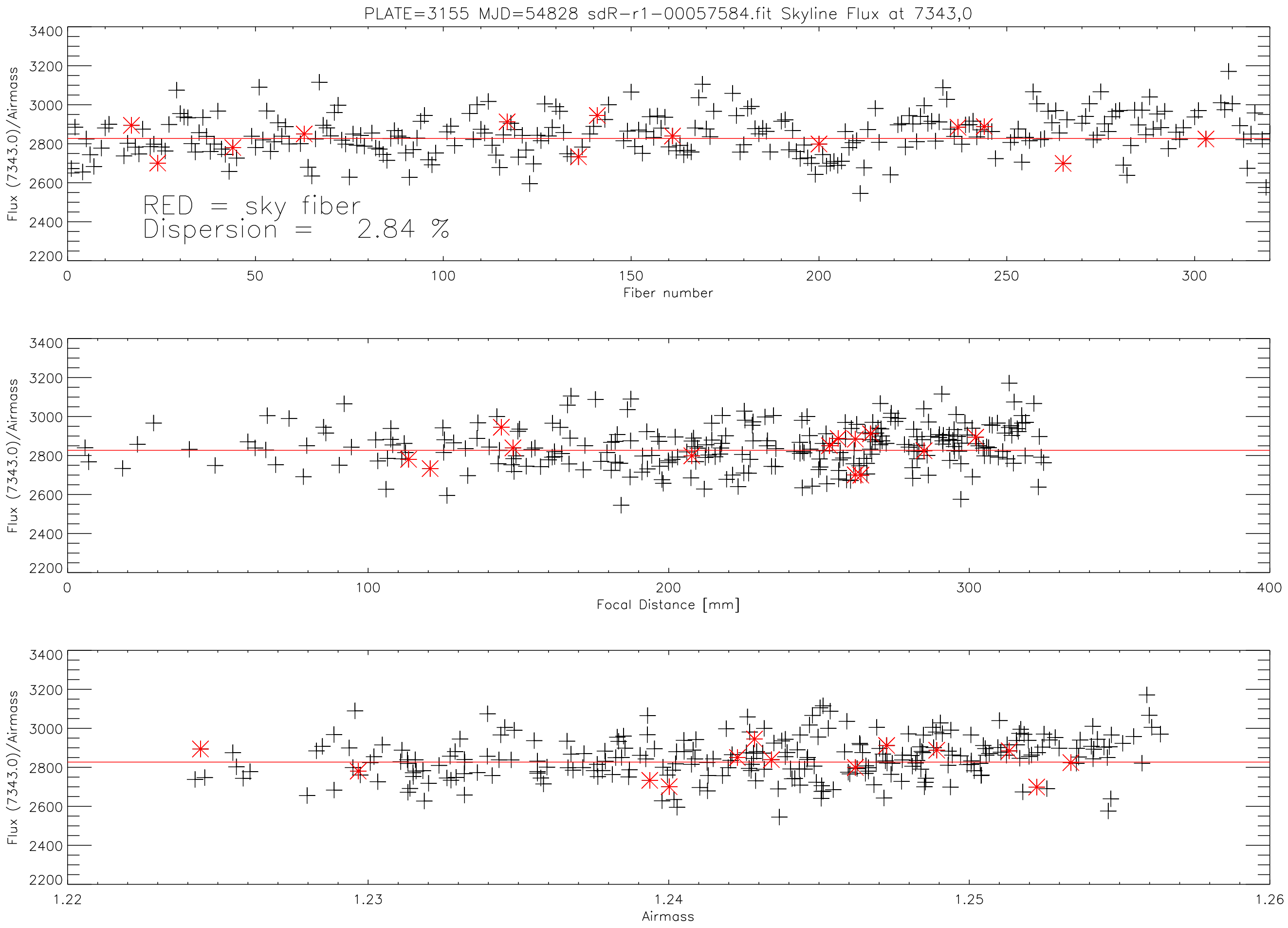

PLATE=3155 MJD=54828 sdR-r1-00057584.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

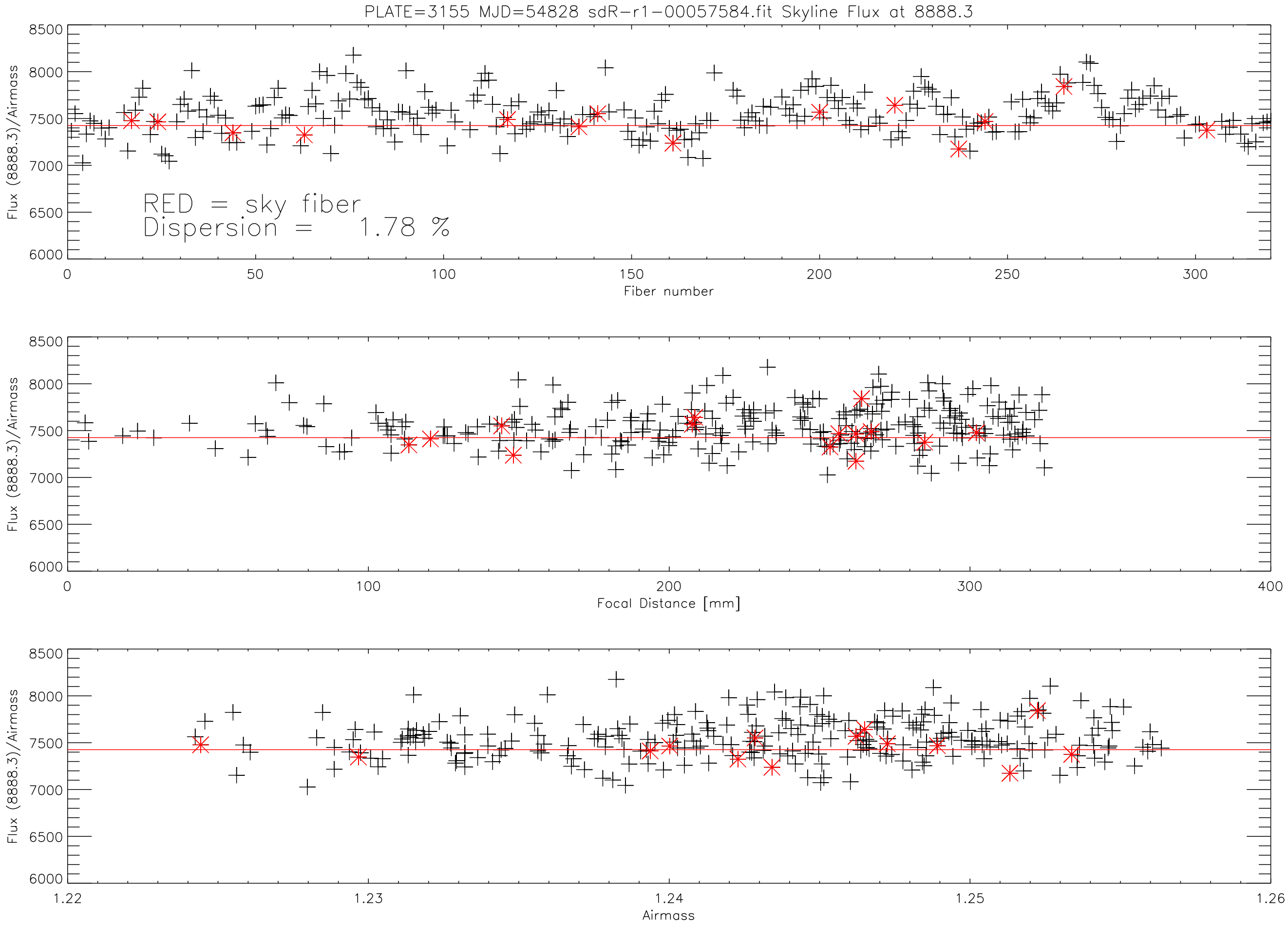

PLATE=3155 MJD=54828 sdR-r1-00057584.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

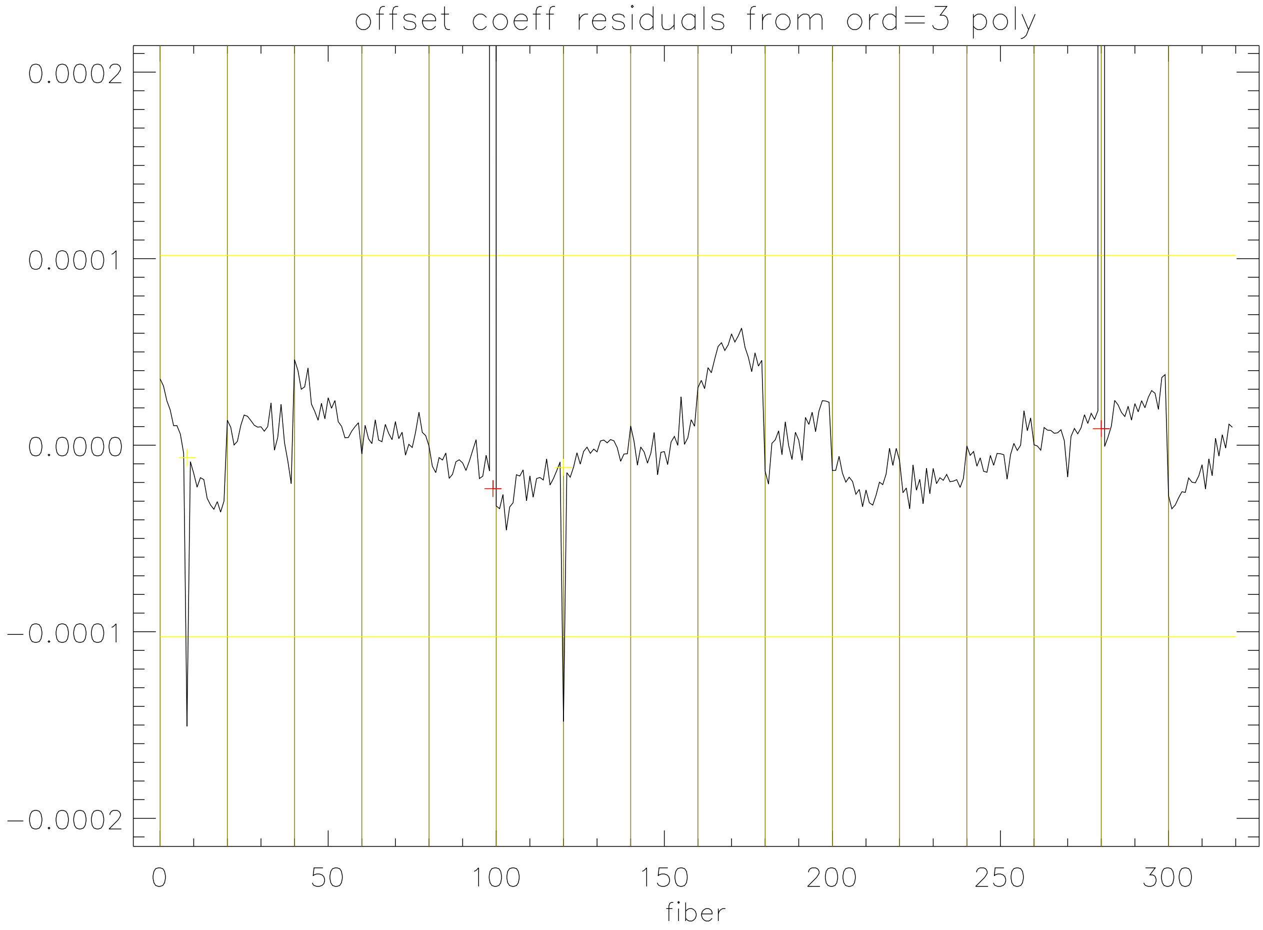


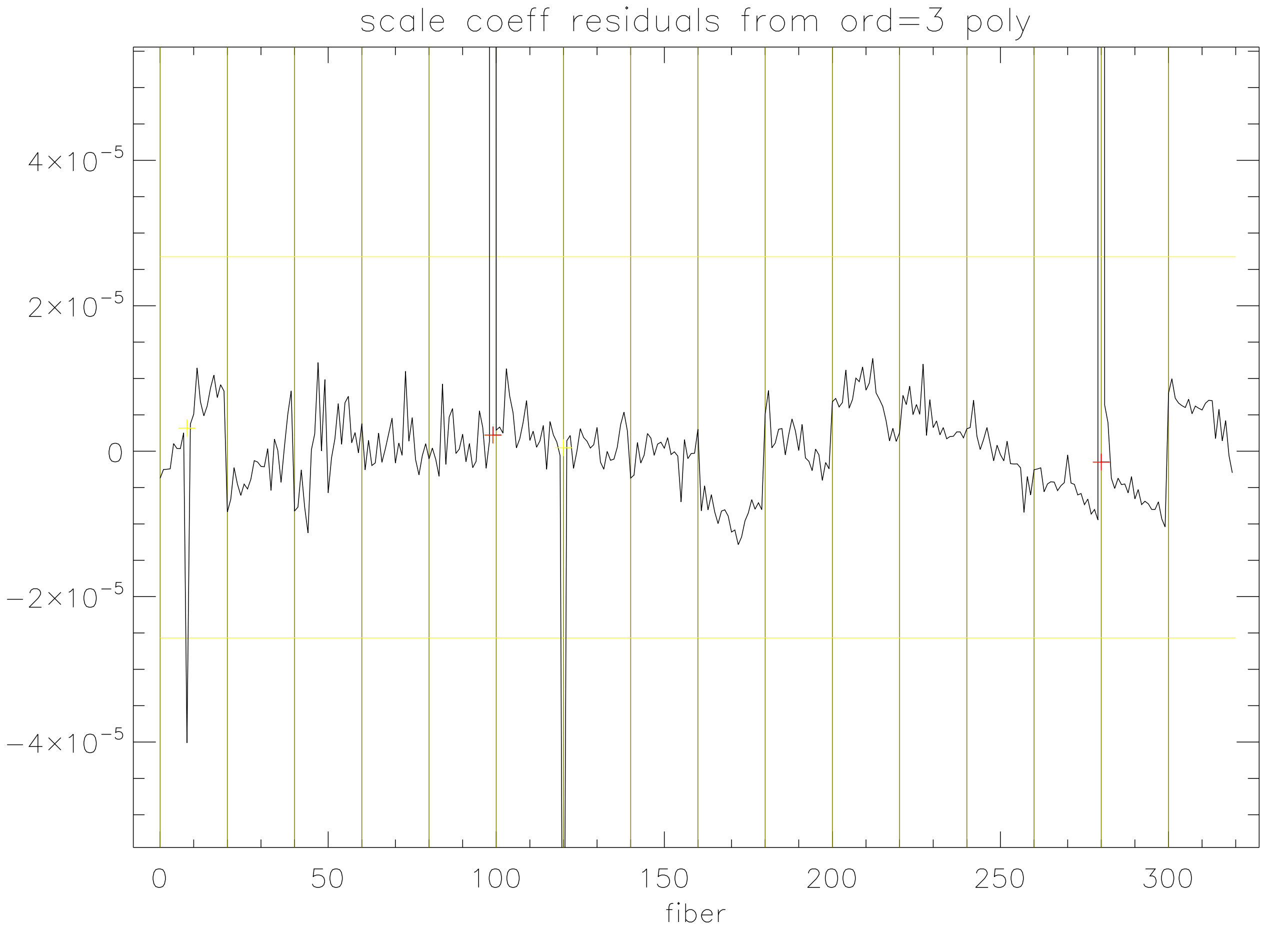
Number of sky fibers = 14

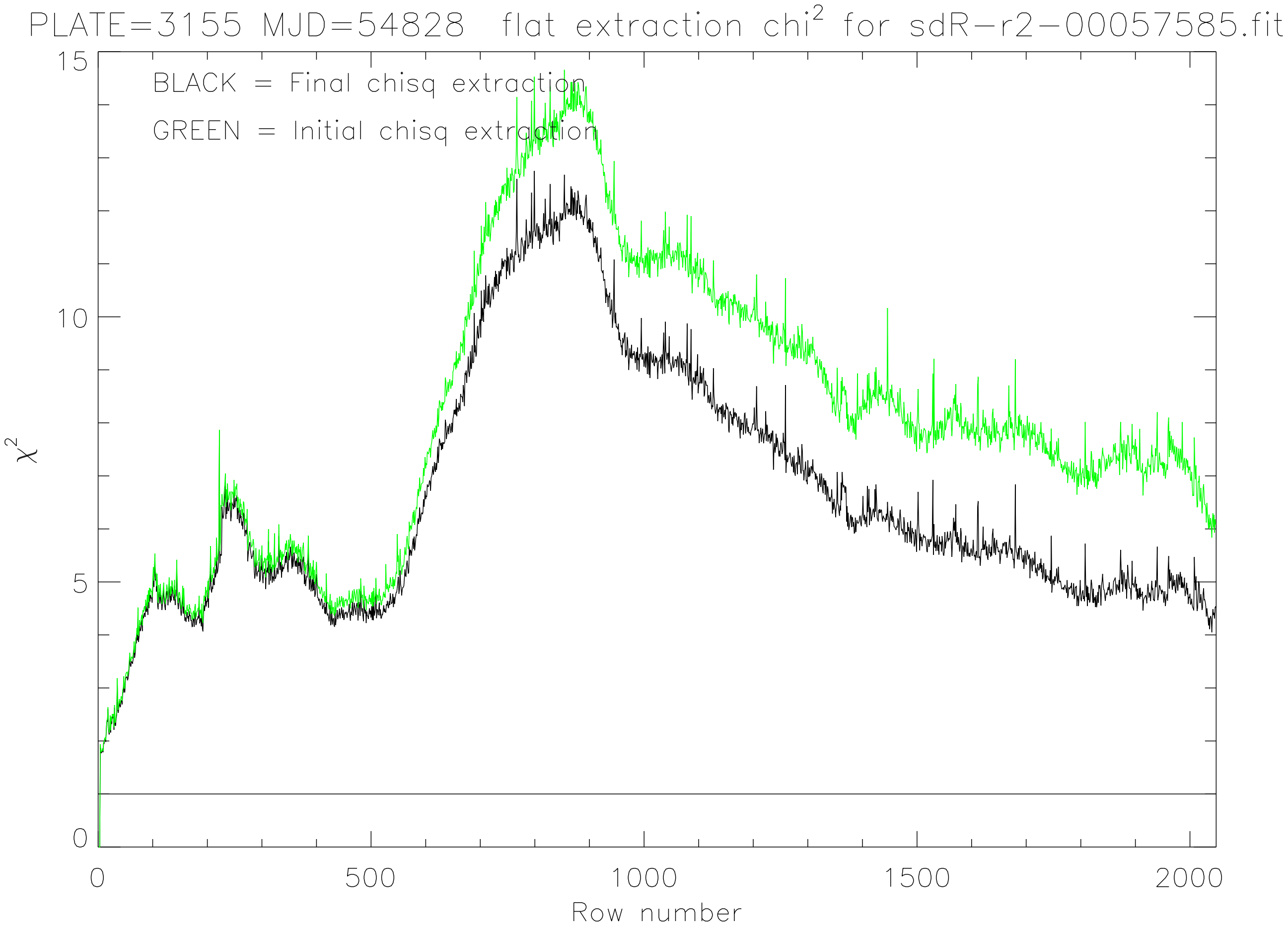
PLATE=3155 MJD=54828 sdR-r1-00057584.fit 2D Sky-subtraction Rescaled Errors

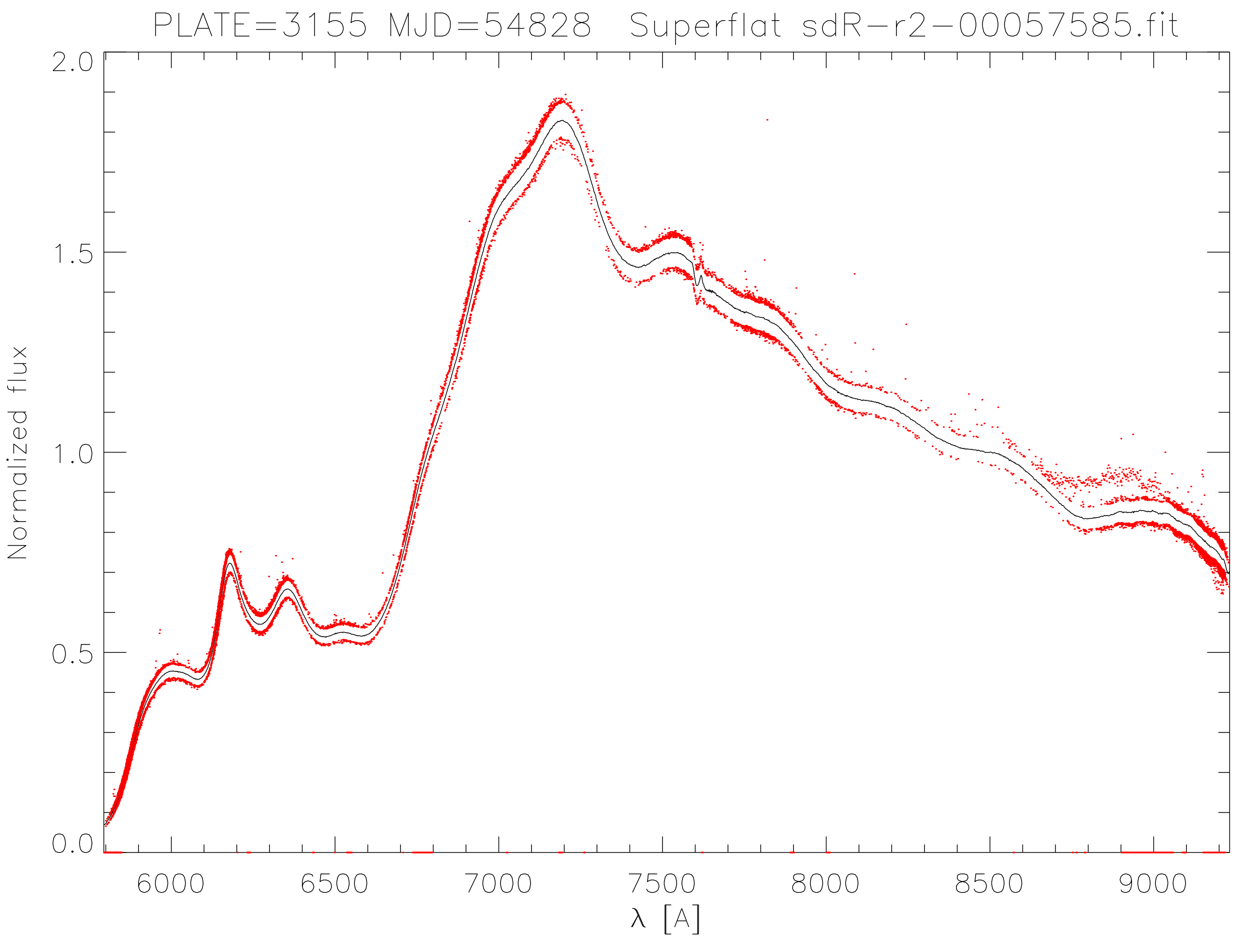

PLATE=3155 MJD=54828 sdR-r1-00057584.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
3400
3200
3000
2800
2600
2400
2200
RED = sky fiber
Dispersion = 2.84 %
0
50
100
150
200
250
300
Fiber number
Flux (7343.0)/Airmass
3400
3200
3000
2800
2600
2400
2200
0
100
200
300
400
Focal Distance [mm]
Flux (7343.0)/Airmass
3400
3200
3000
2800
2600
2400
2200
1.22
1.23
1.24
1.25
1.26
Airmass

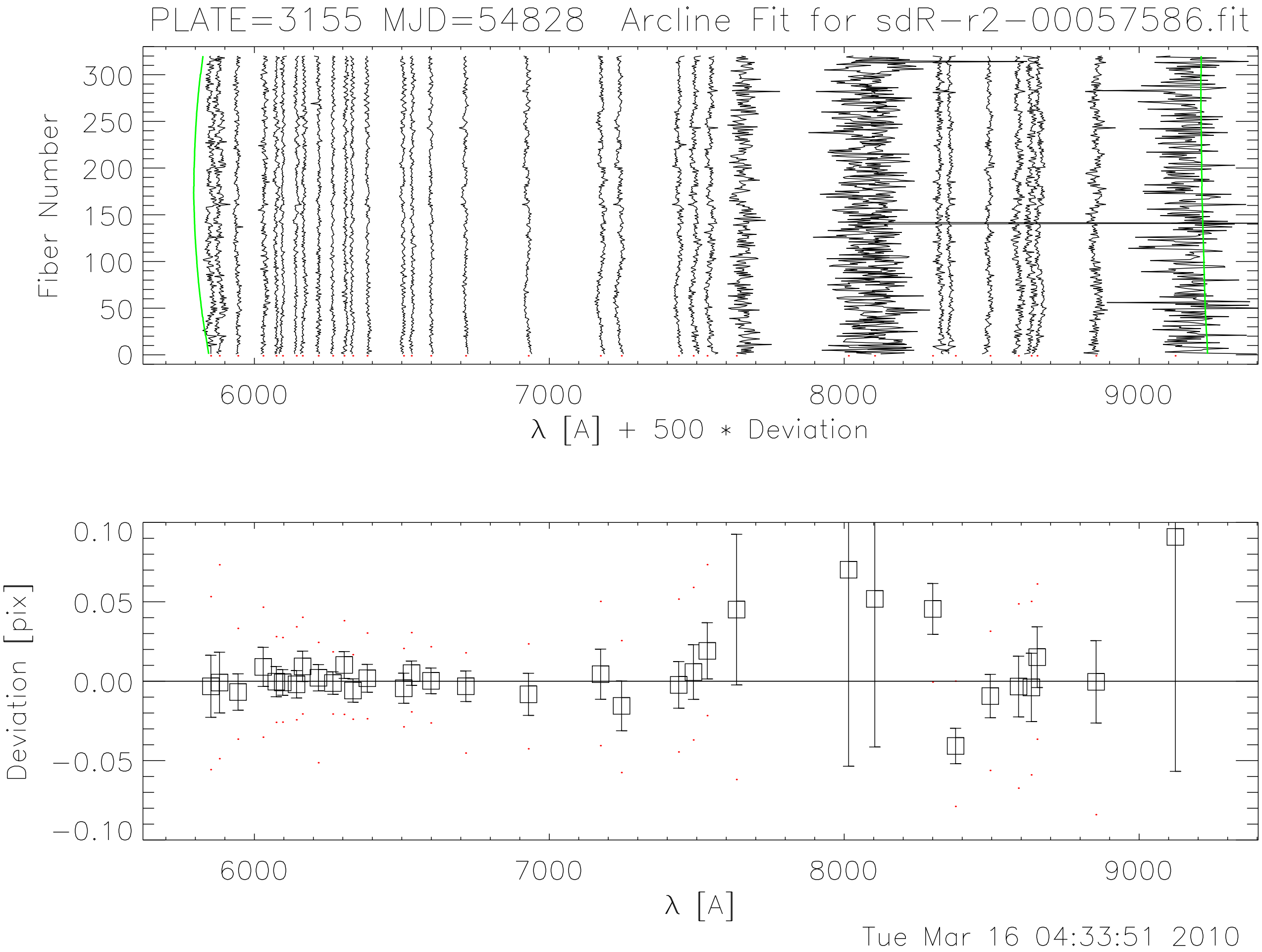

PLATE=3155 MJD=54828 sdR-r1-00057584.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
8500
8000
7500
7000
6500
6000
RED = sky fiber
Dispersion = 1.78 %
0
50
100
150
200
250
300
Fiber number
Flux (8888.3)/Airmass
8500
8000
7500
7000
6500
6000
0
100
200
300
400
Focal Distance [mm]
Flux (8888.3)/Airmass
8500
8000
7500
7000
6500
6000
1.22
1.23
1.24
1.25
1.26
Airmass

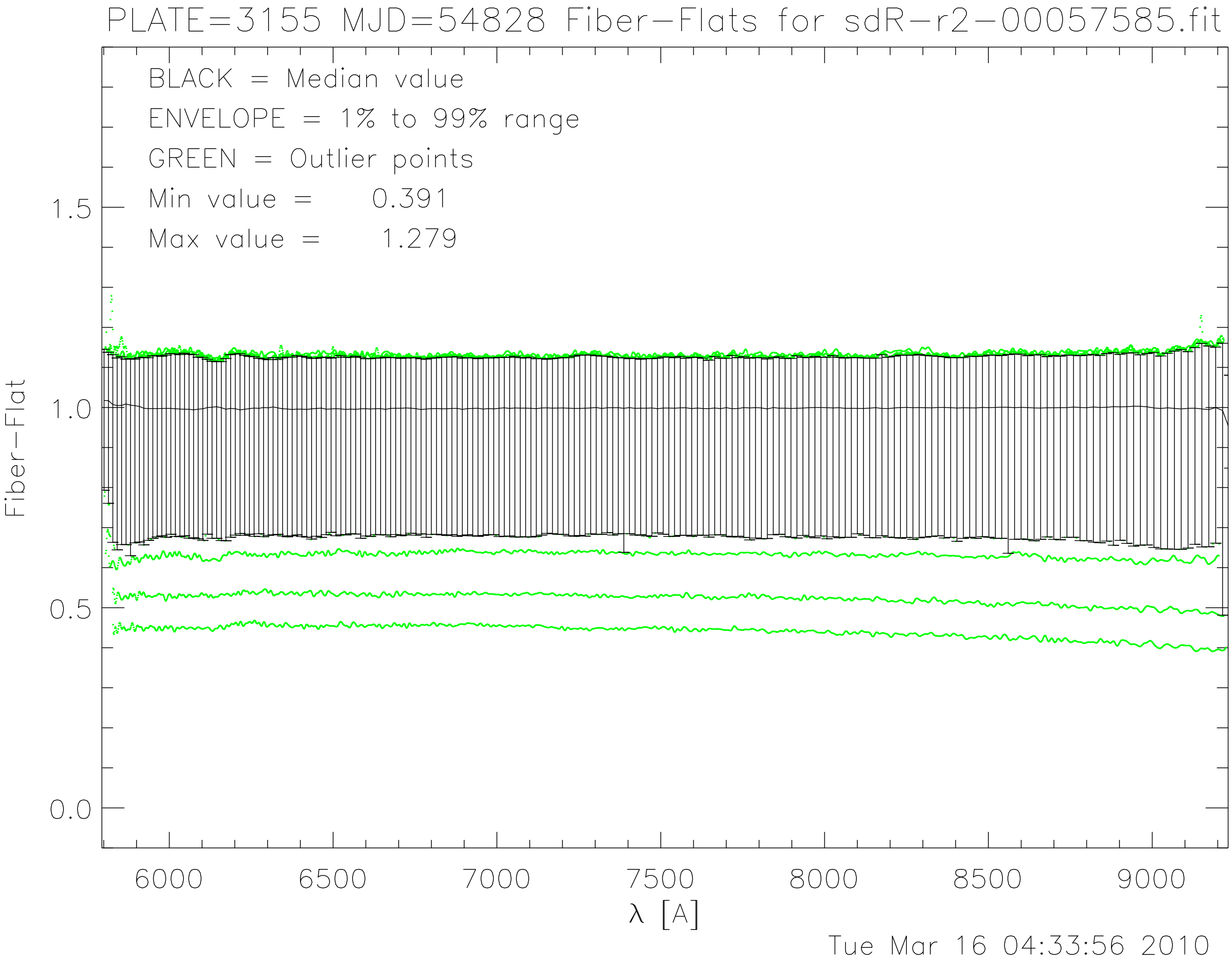

offset coeff residuals from ord=3 poly
0.0002
0.0001
0.0000
−0.0001
−0.0002
0
50
100
150
200
250
300
fiber

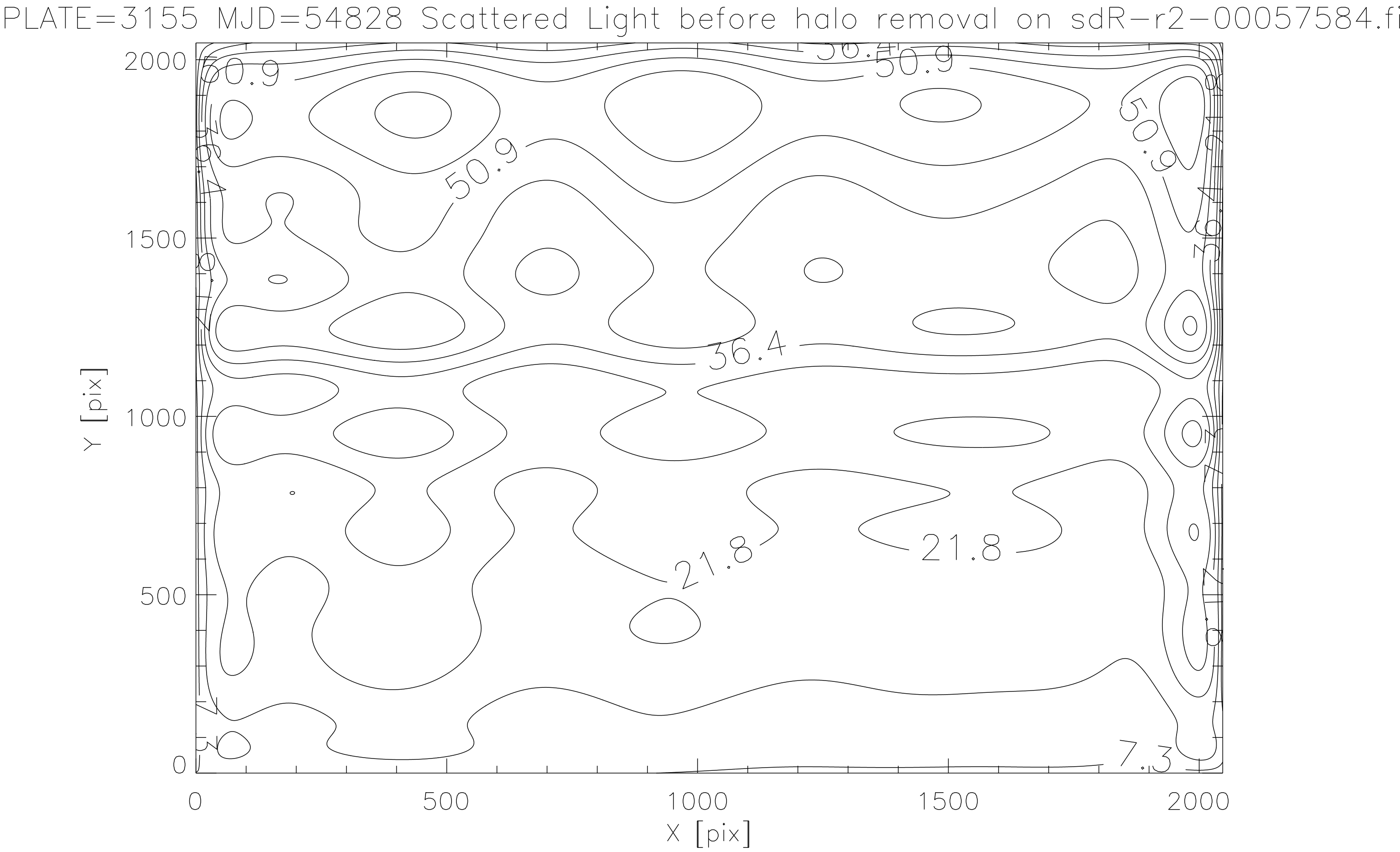

scale coeff residuals from ord=3 poly
4×10^{-5}
2×10^{-5}
0
-2×10^{-5}
-4×10^{-5}
0
50
100
150
200
250
300
fiber


PLATE=3155 MJD=54828 flat extraction chi^2 for sdR-r2-00057585.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
0
500
1000
1500
2000
Row number

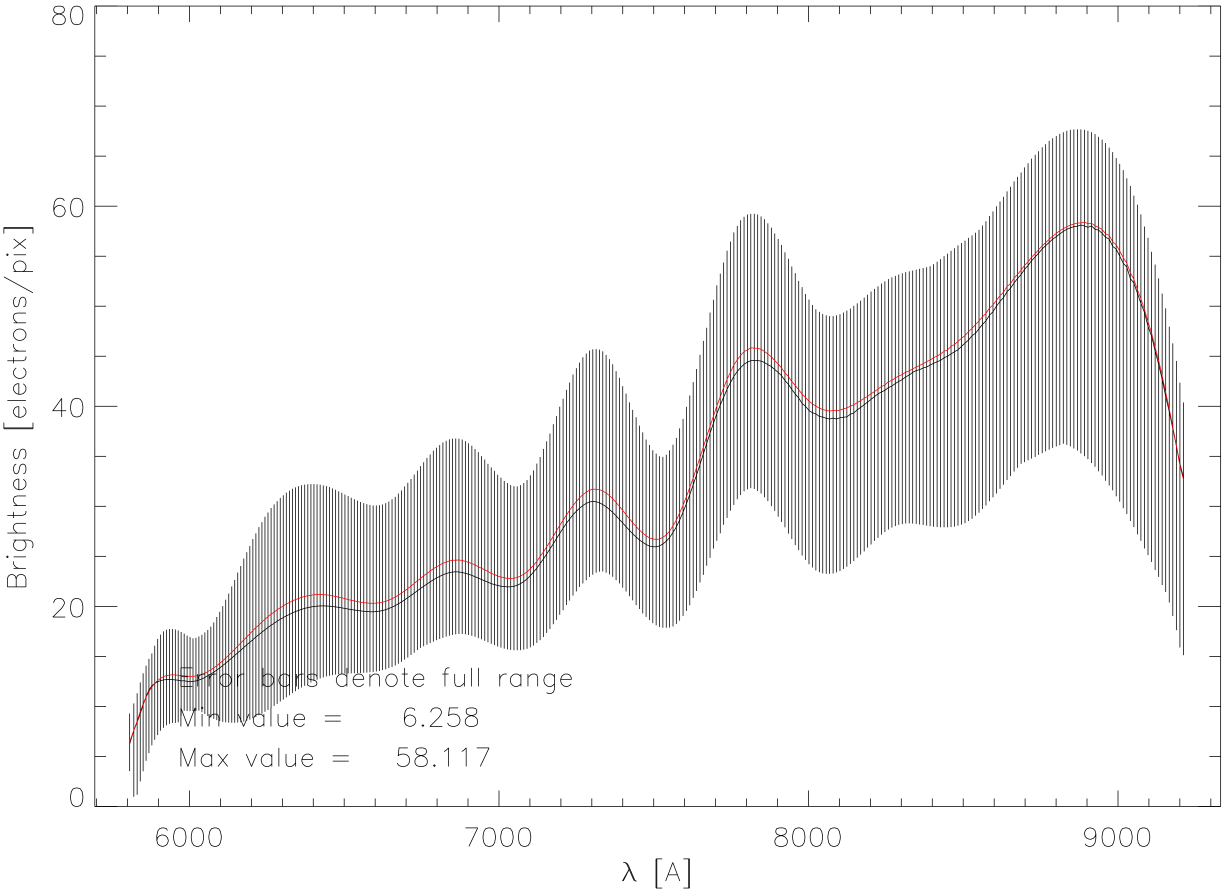

PLATE=3155 MJD=54828 Superflat sdR-r2-00057585.fit
Normalized flux
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000
λ [A]


PLATE=3155 MJD=54828 Arcline Fit for sdR-r2-00057586.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]
Tue Mar 16 04:33:51 2010


PLATE=3155 MJD=54828 Fiber−Flats for sdR−r2−00057585.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.391
Max value = 1.279
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Tue Mar 16 04:33:56 2010

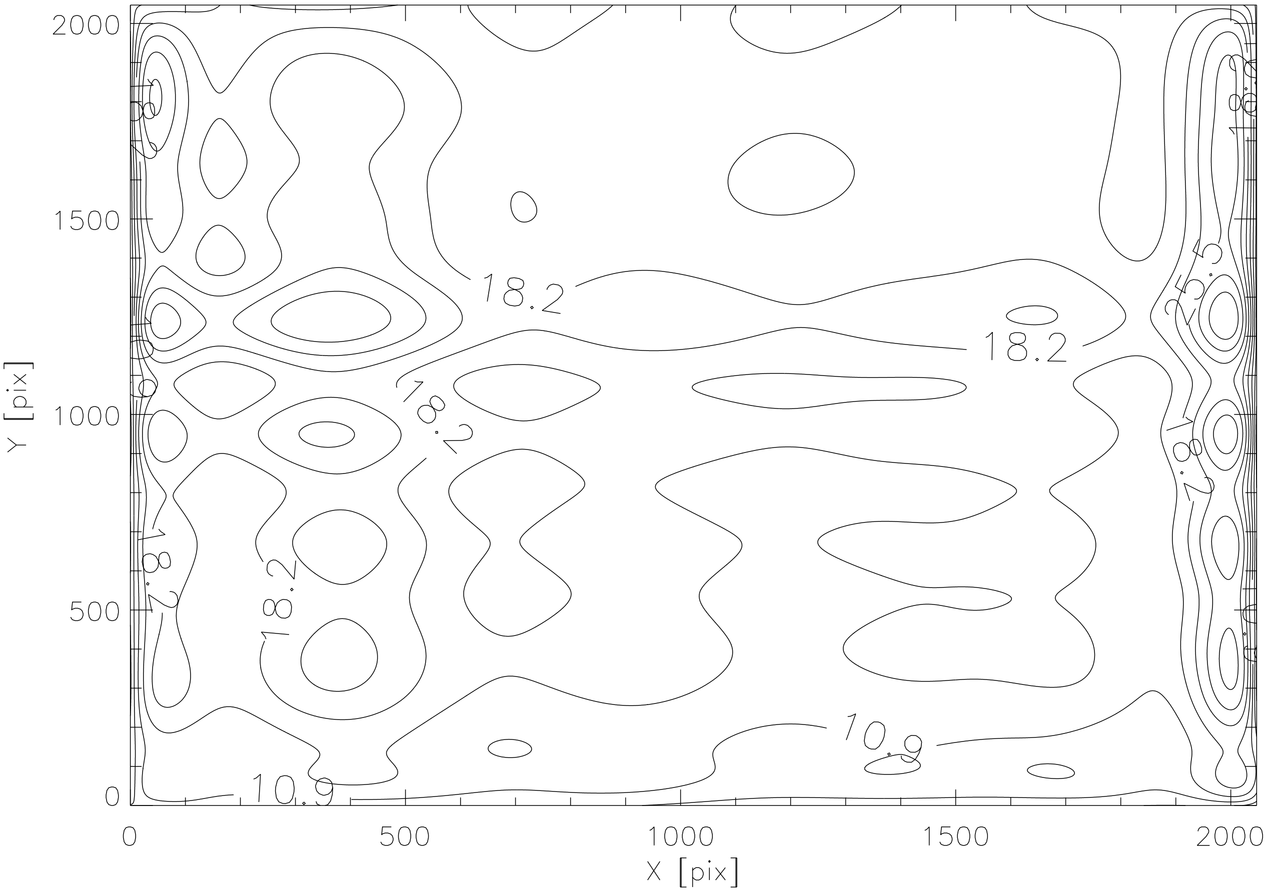

PLATE=3155 MJD=54828 Scattered Light before halo removal on sdR-r2-00057584.fi
50.9
36.4
21.8
7.3
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]

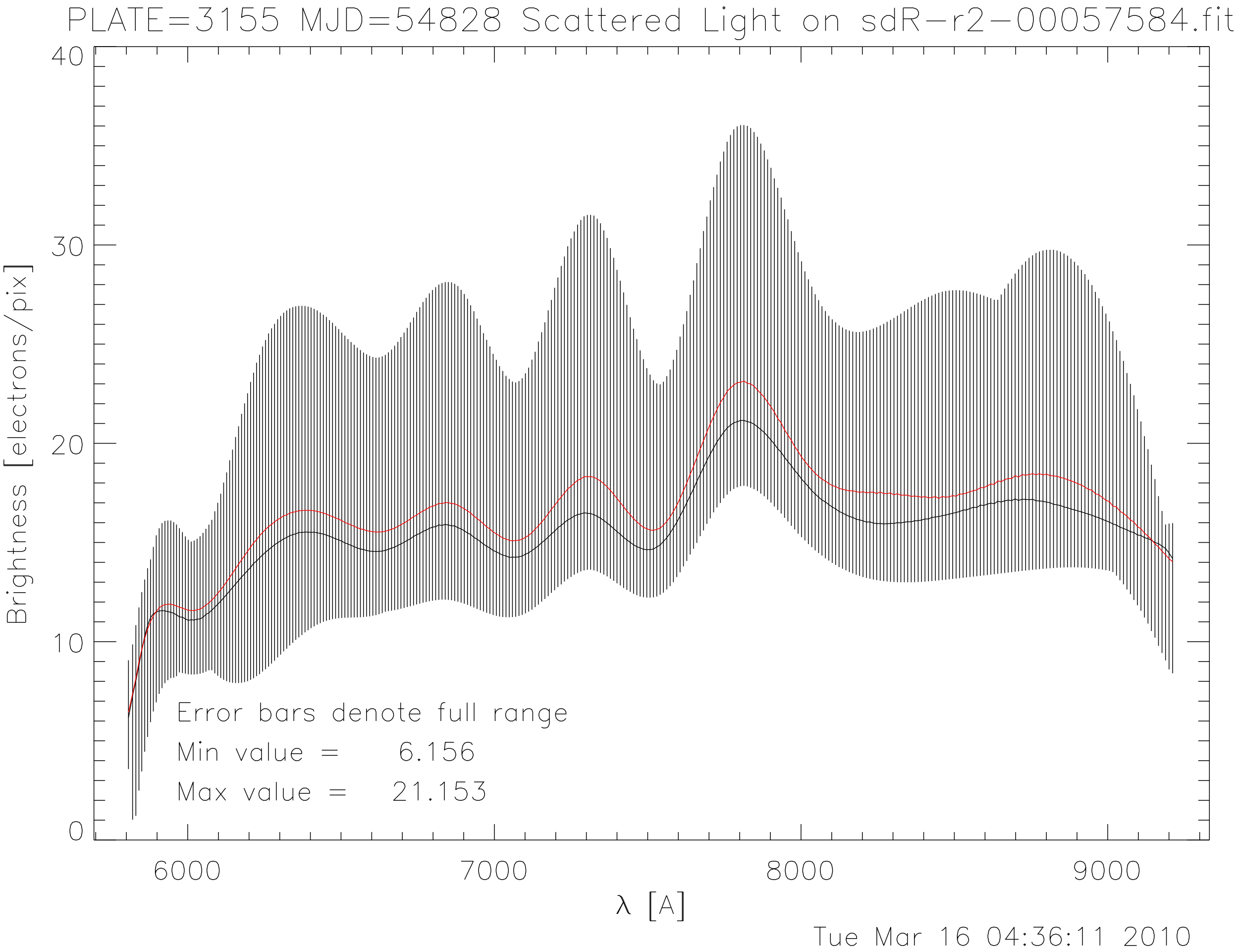
PLATE=3155 MJD=54828 Scattered Light before halo removal on sdR-r2-00057584.fi

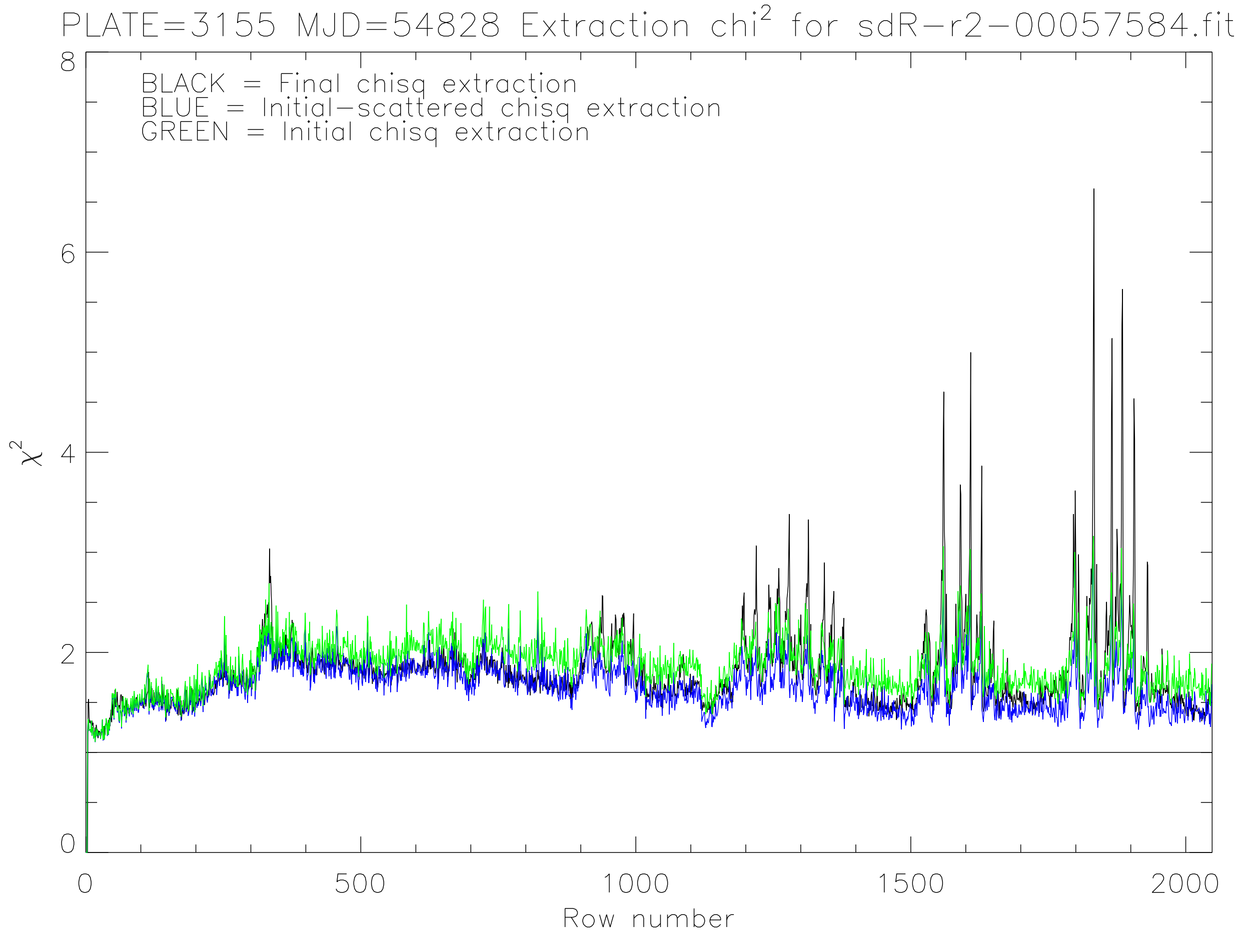


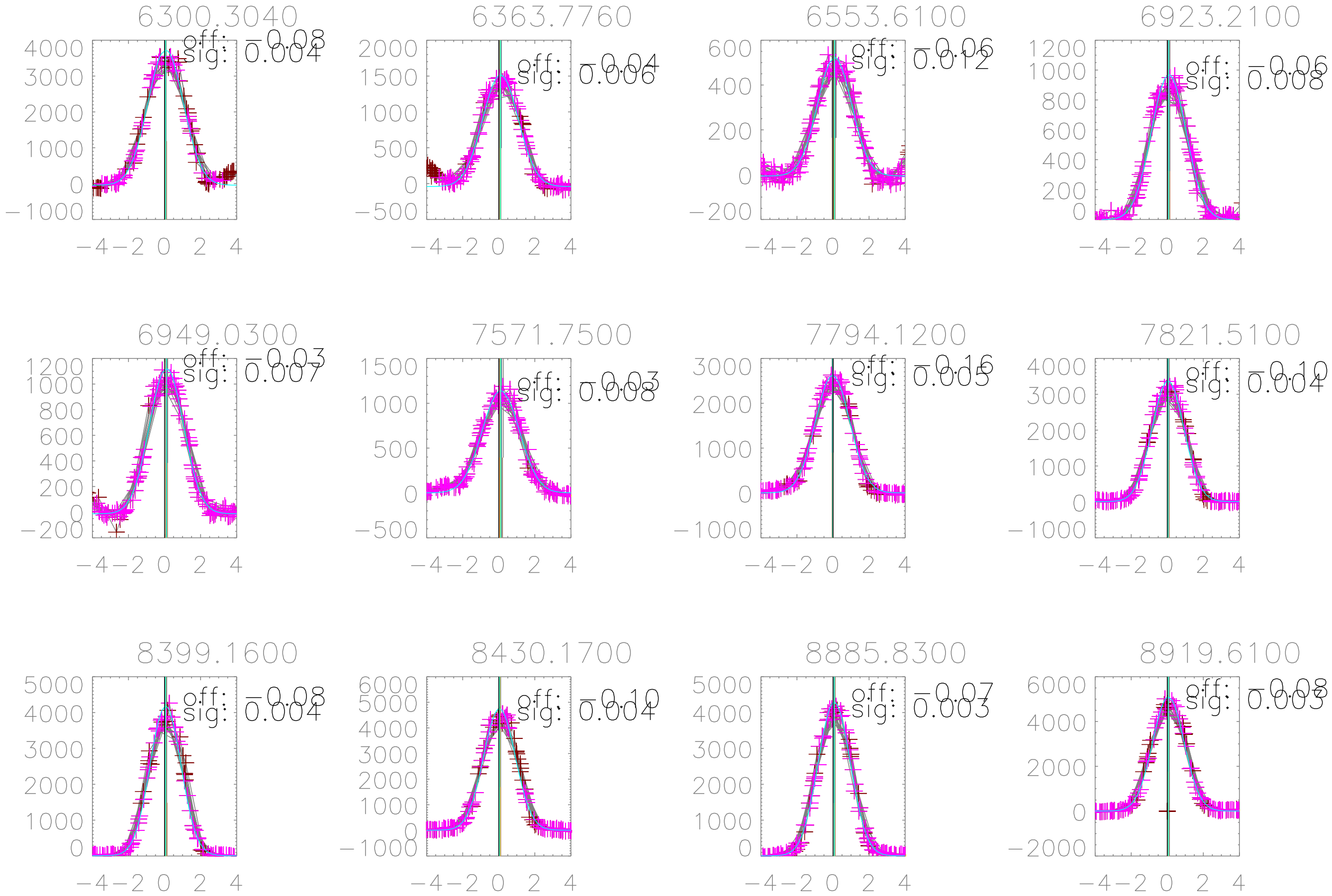
Tue Mar 16 04:34:25 2010

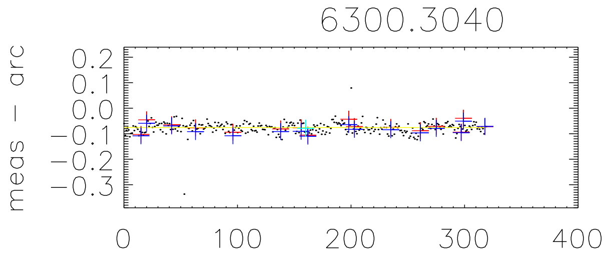
PLATE=3155 MJD=54828 Scattered Light on sdR-r2-00057584.fit

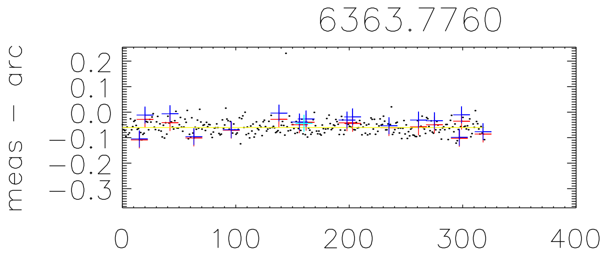


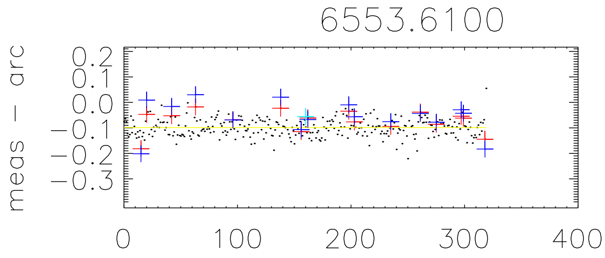
PLATE=3155 MJD=54828 Scattered Light on sdR-r2-00057584.fit
Brightness [electrons/pix]
λ [A]
0
10
20
30
40
6000
7000
8000
9000
Error bars denote full range
Min value = 6.156
Max value = 21.153
Tue Mar 16 04:36:11 2010

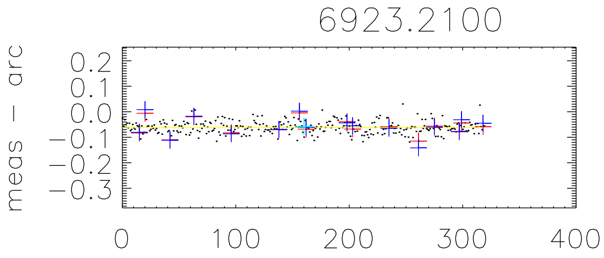

PLATE=3155 MJD=54828 Extraction chi^2 for sdR-r2-00057584.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

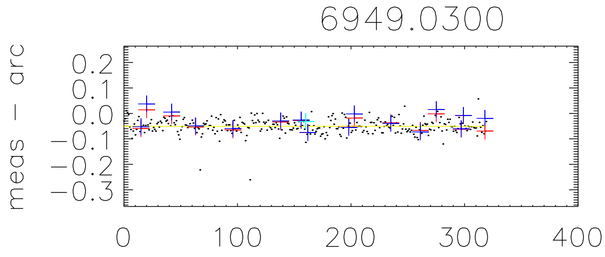

6300.3040
off: −0.08
sig: 0.004
6363.7760
off: −0.04
sig: 0.006
6553.6100
off: −0.06
sig: 0.012
6923.2100
off: −0.06
sig: 0.008
6949.0300
off: −0.03
sig: 0.007
7571.7500
off: −0.03
sig: 0.008
7794.1200
off: −0.16
sig: 0.005
7821.5100
off: −0.10
sig: 0.004
8399.1600
off: −0.08
sig: 0.004
8430.1700
off: −0.10
sig: 0.004
8885.8300
off: −0.07
sig: 0.003
8919.6100
off: −0.08
sig: 0.003
−4 −2 0 2 4

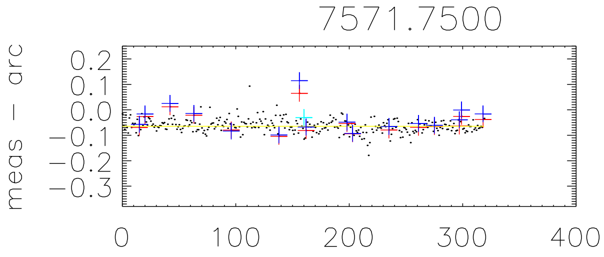

6300.3040

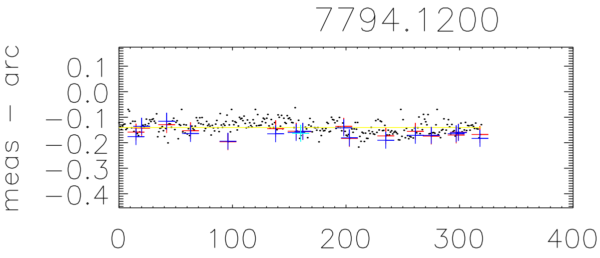

6363.7760

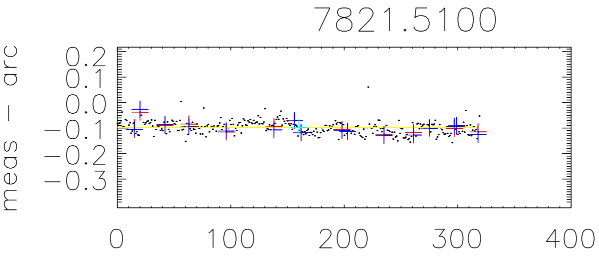

6553.6100

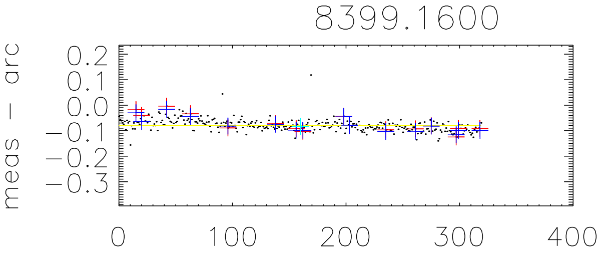

6923.2100

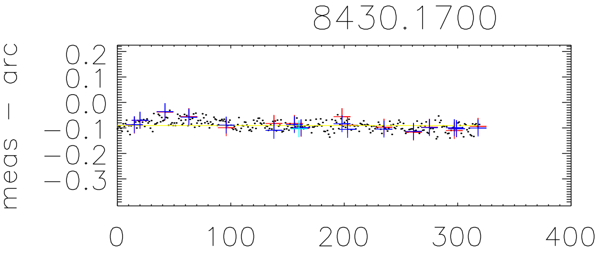

6949.0300

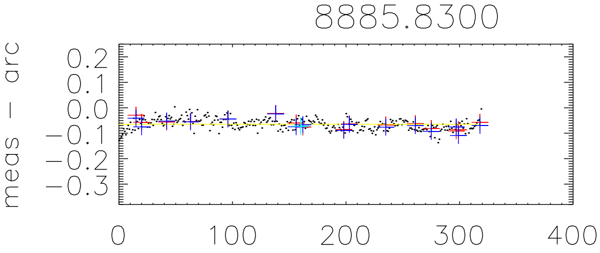

7571.7500

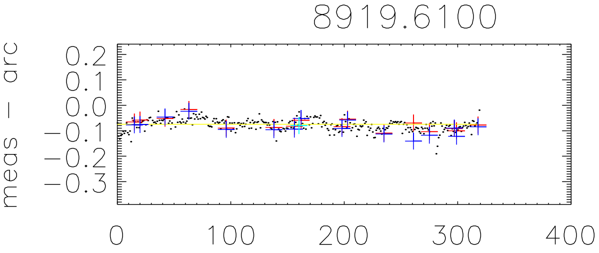

7794.1200

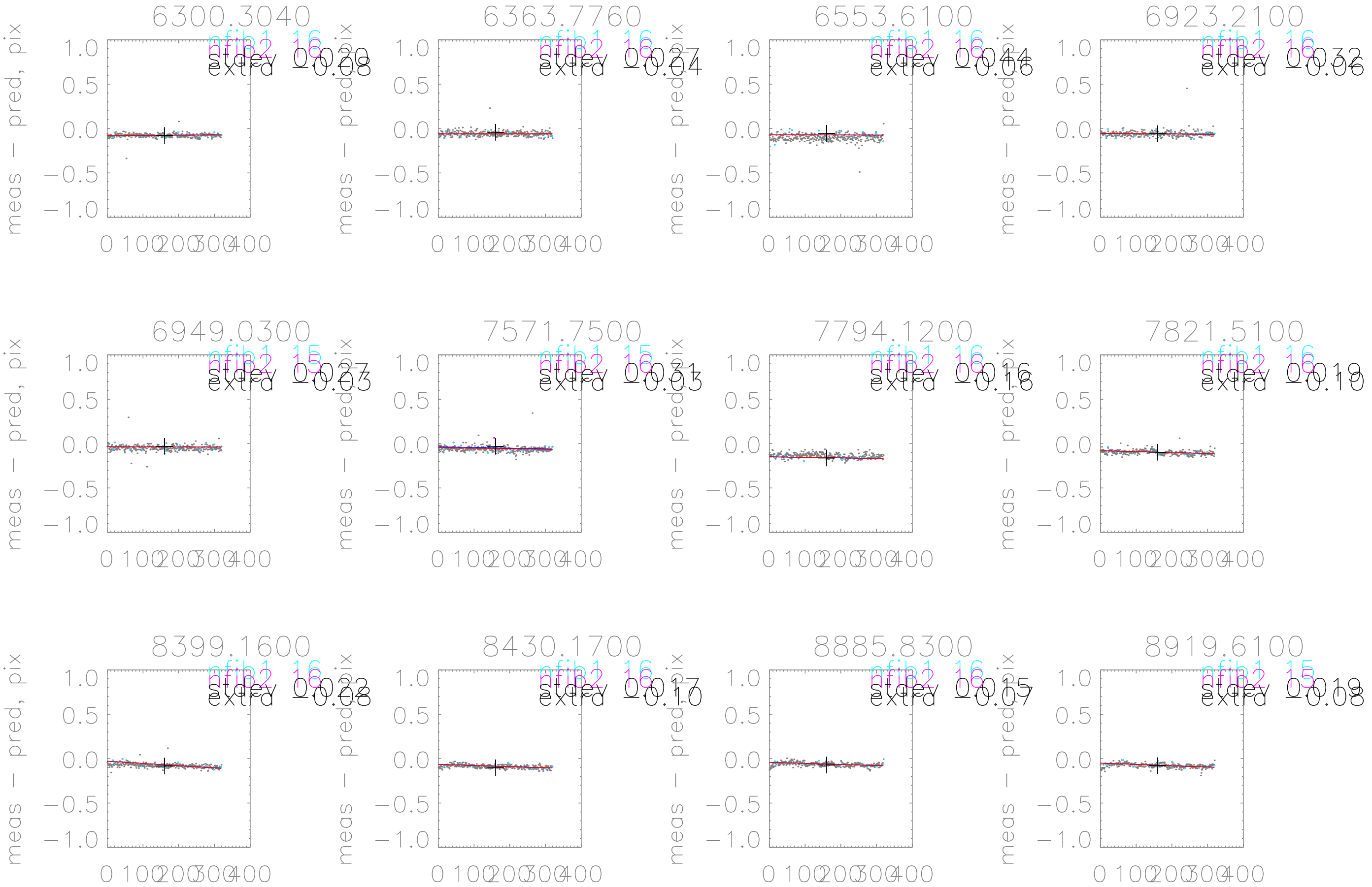

7821.5100

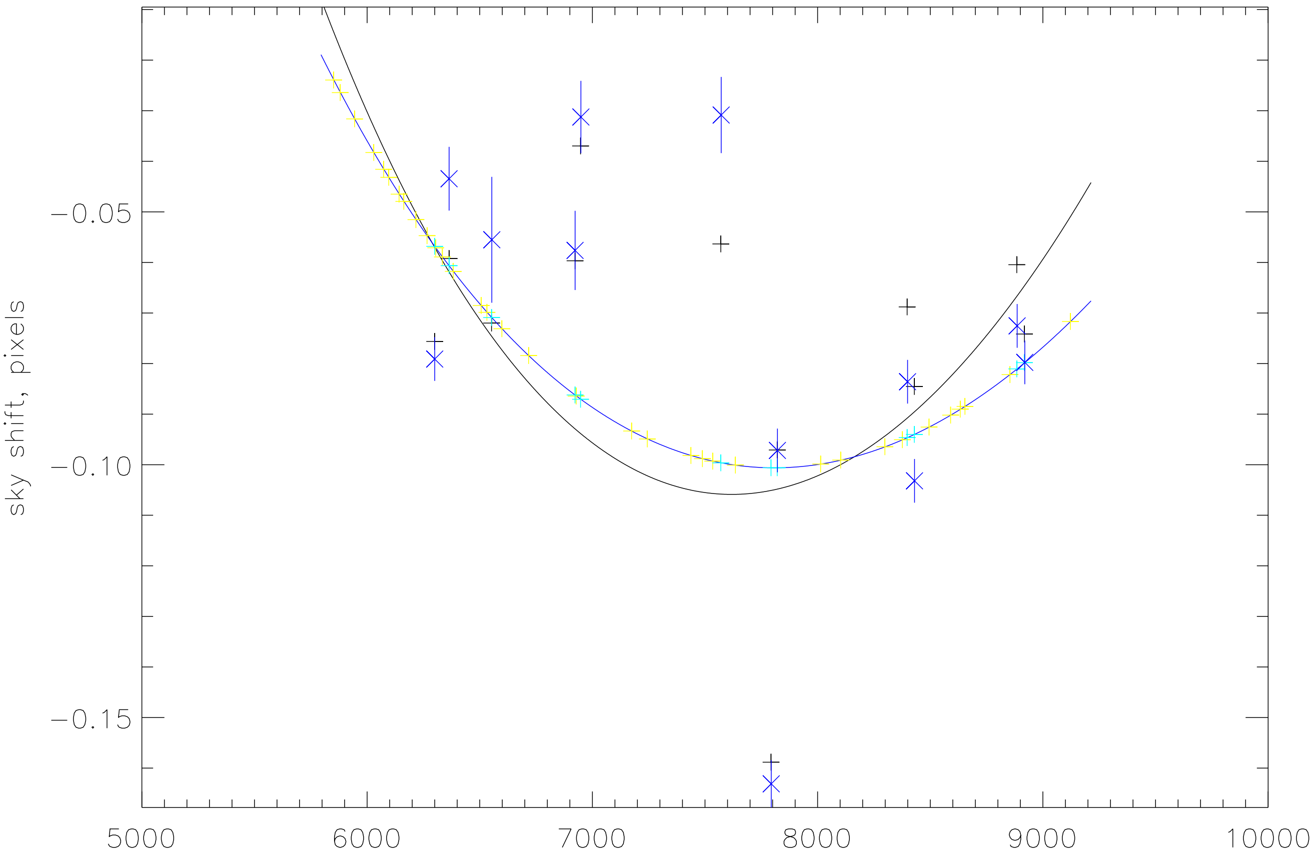

8399.1600

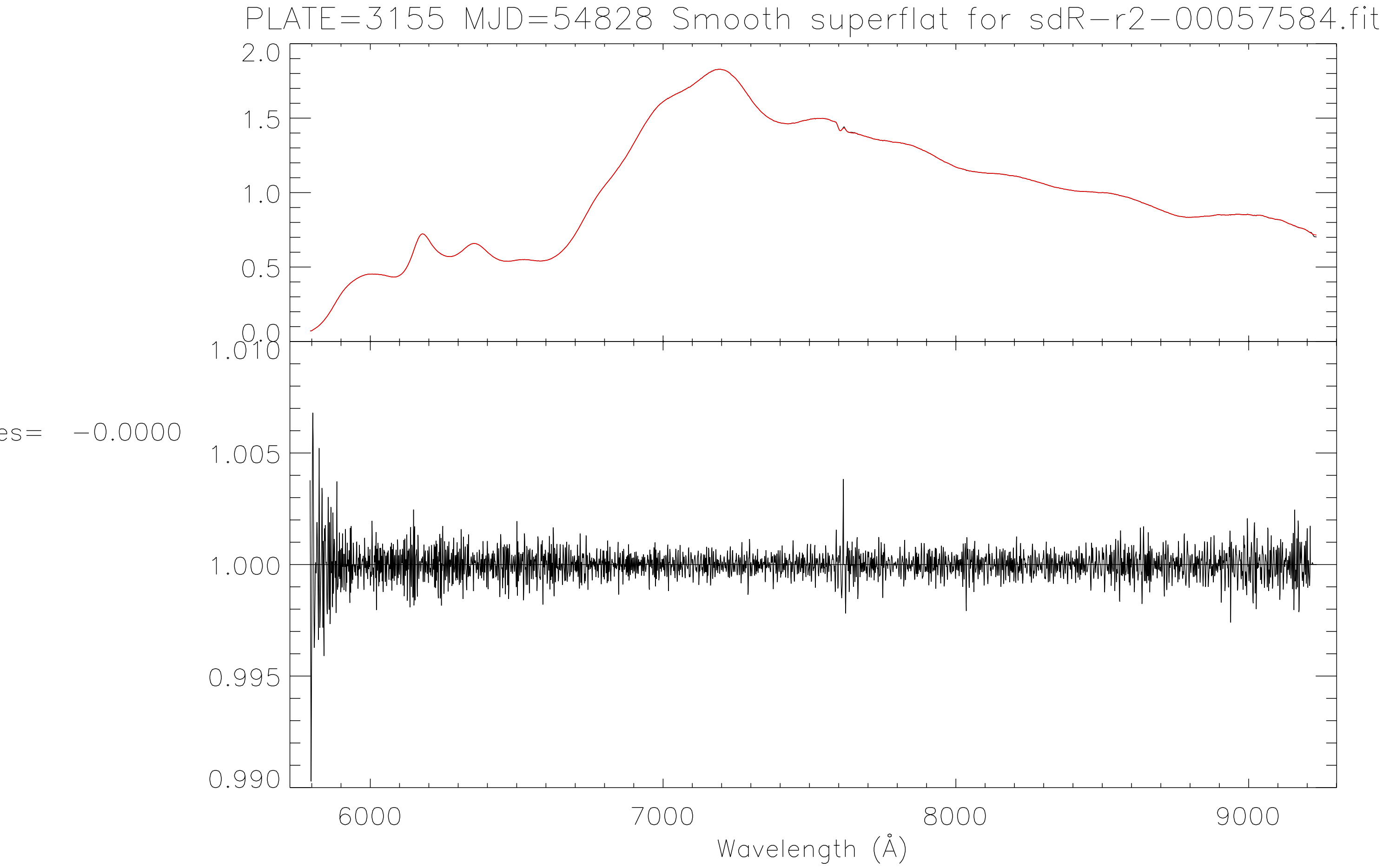

8430.1700

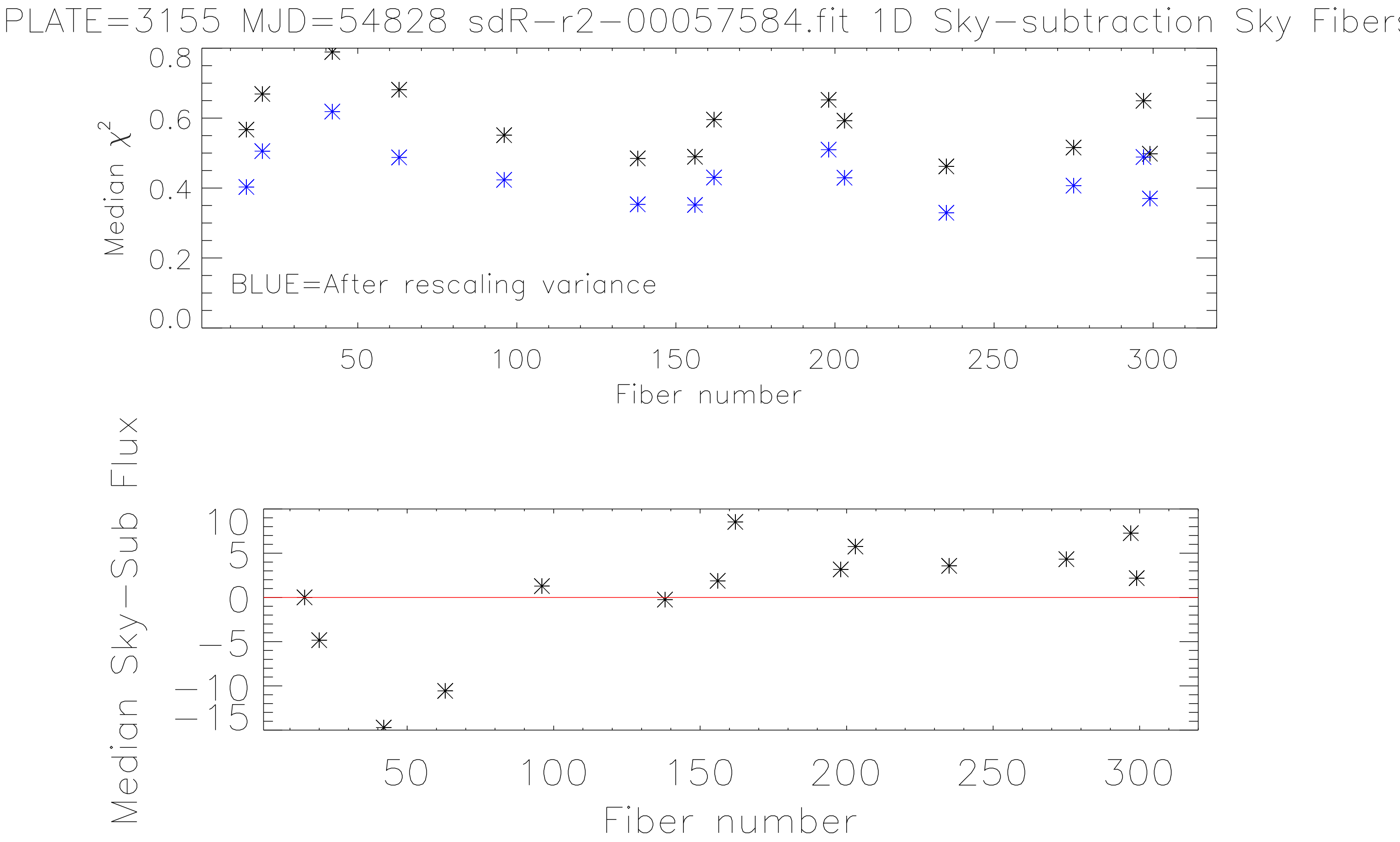

8885.8300

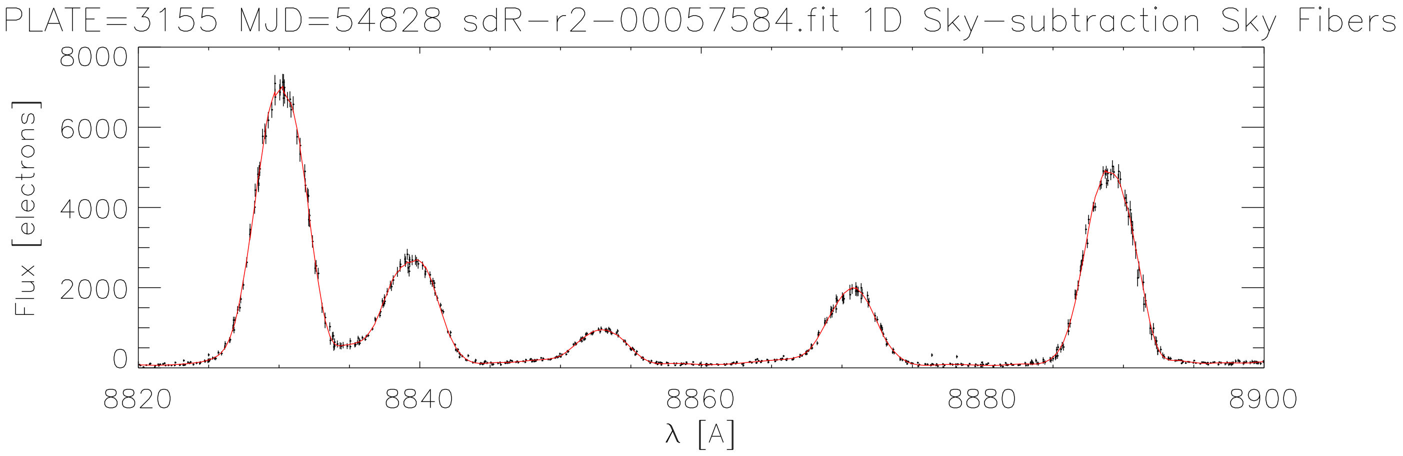

8919.6100

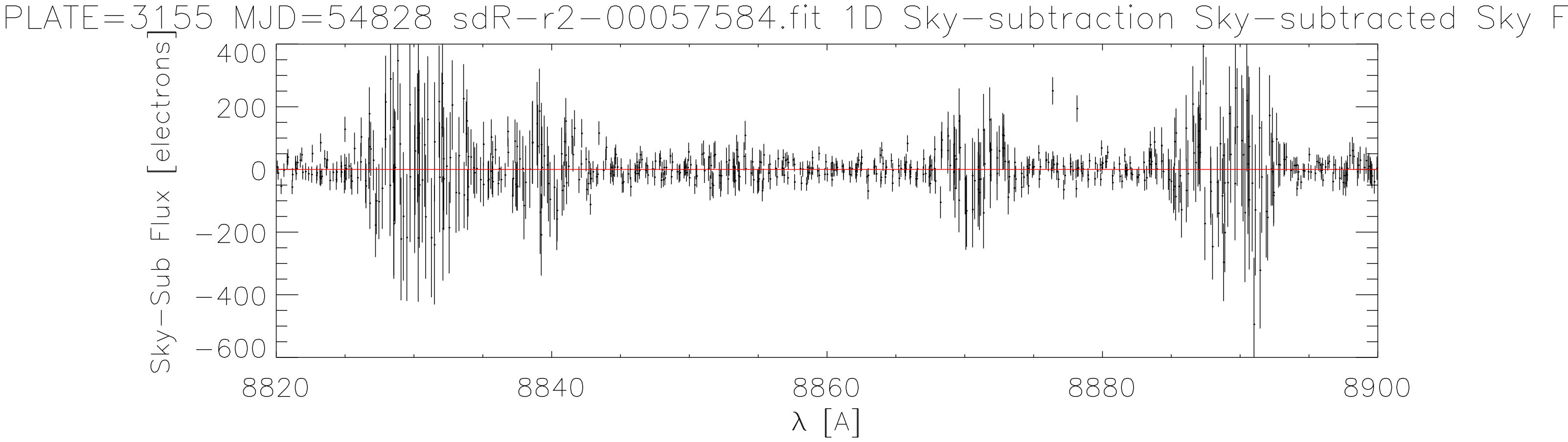

6300.3040
nfib1 16
nfib2 16
stdev 0.020
extrd −0.08
6363.7760
nfib1 16
nfib2 16
stdev 0.027
extrd −0.04
6553.6100
nfib1 16
nfib2 16
stdev 0.044
extrd −0.06
6923.2100
nfib1 16
nfib2 16
stdev 0.032
extrd −0.06
6949.0300
nfib1 15
nfib2 15
stdev 0.027
extrd −0.03
7571.7500
nfib1 15
nfib2 16
stdev 0.031
extrd −0.03
7794.1200
nfib1 16
nfib2 16
stdev 0.016
extrd −0.16
7821.5100
nfib1 16
nfib2 16
stdev 0.019
extrd −0.10
8399.1600
nfib1 16
nfib2 16
stdev 0.022
extrd −0.08
8430.1700
nfib1 16
nfib2 16
stdev 0.017
extrd −0.10
8885.8300
nfib1 16
nfib2 16
stdev 0.015
extrd −0.07
8919.6100
nfib1 15
nfib2 15
stdev 0.019
extrd −0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


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


PLATE=3155 MJD=54828 Smooth superflat for sdR-r2-00057584.fit
2.0
1.5
1.0
0.5
0.0
1.010
es= −0.0000
1.005
1.000
0.995
0.990
6000
7000
8000
9000
Wavelength (Å)

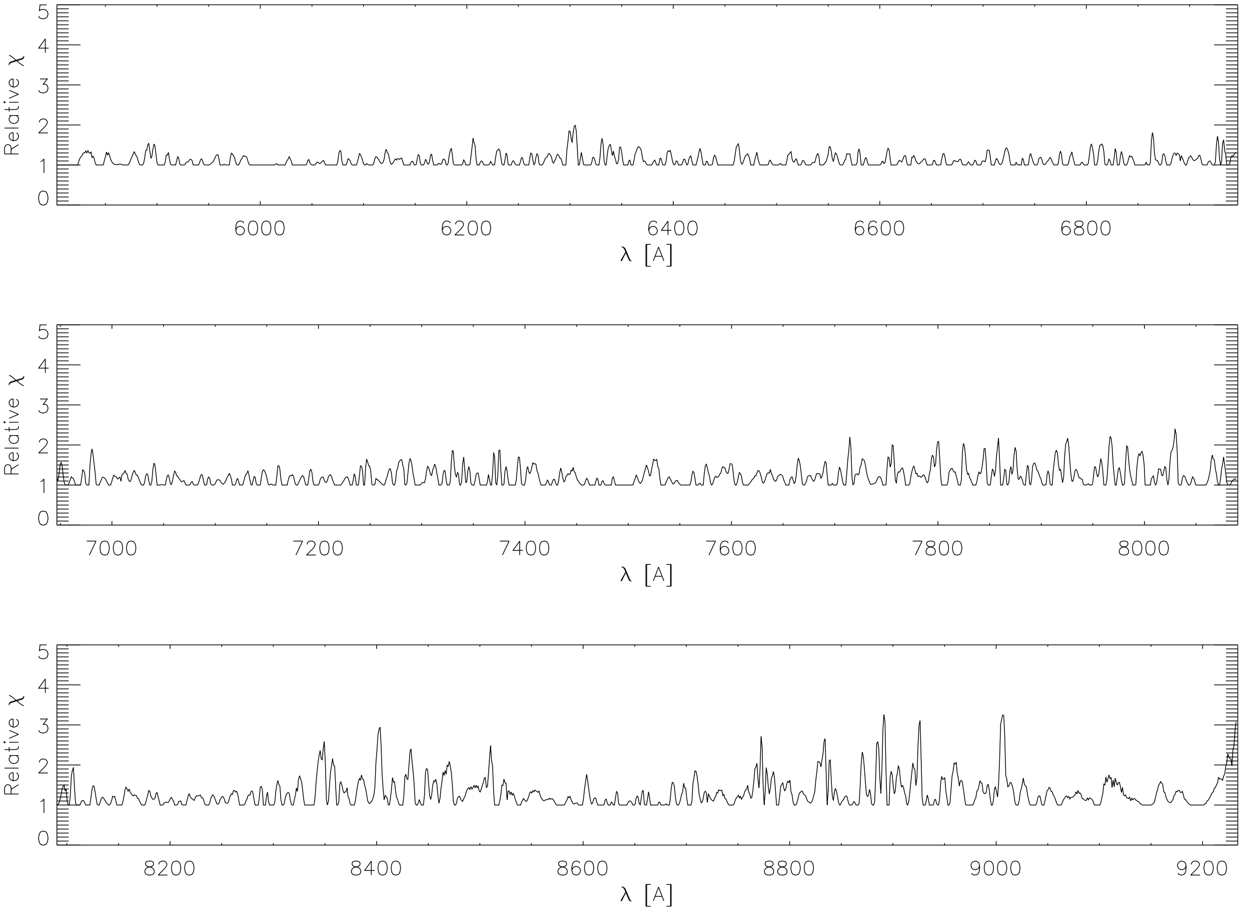

PLATE=3155 MJD=54828 sdR-r2-00057584.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-15
-10
-5
0
5
10
50
100
150
200
250
300
Fiber number

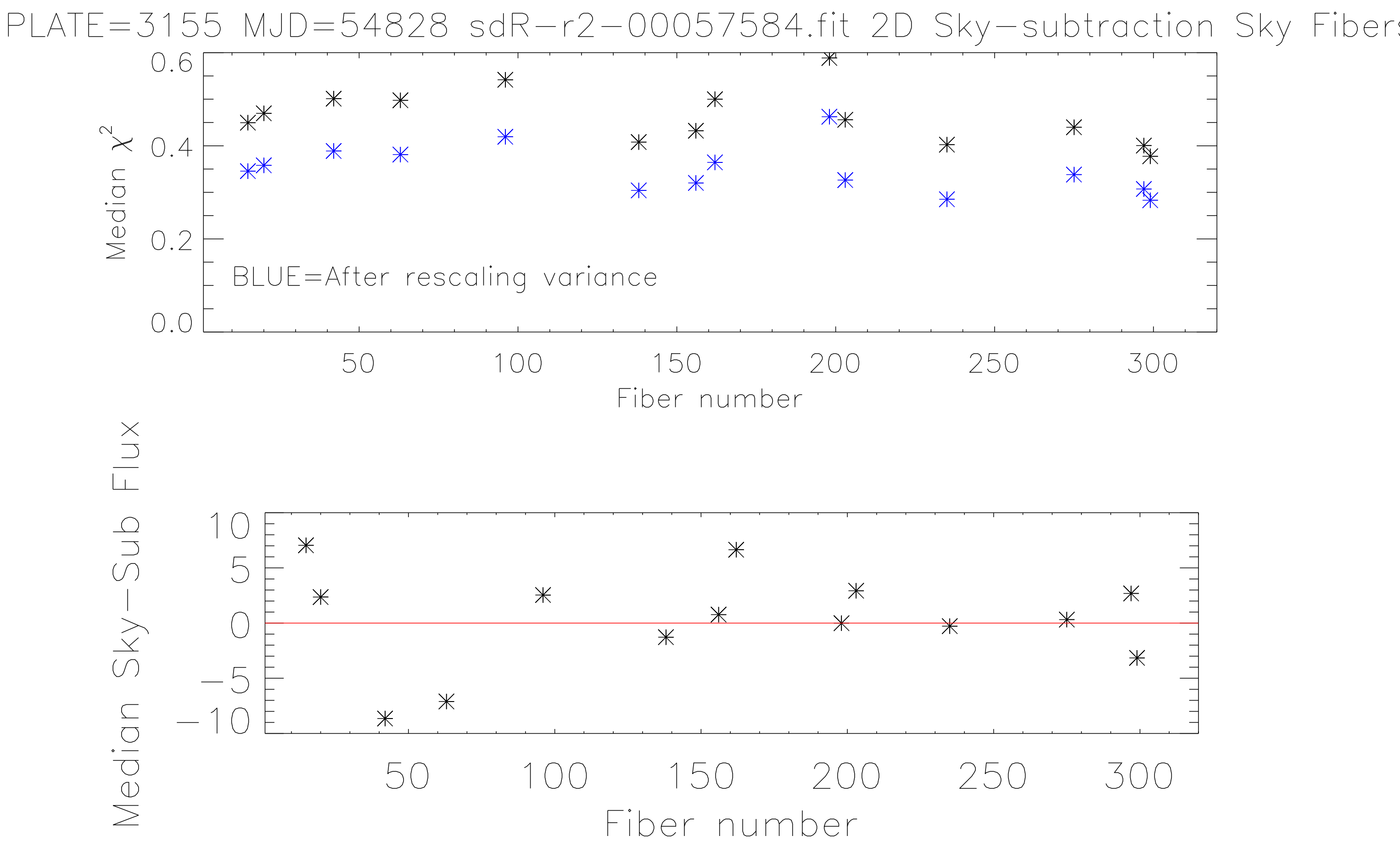

PLATE=3155 MJD=54828 sdR-r2-00057584.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

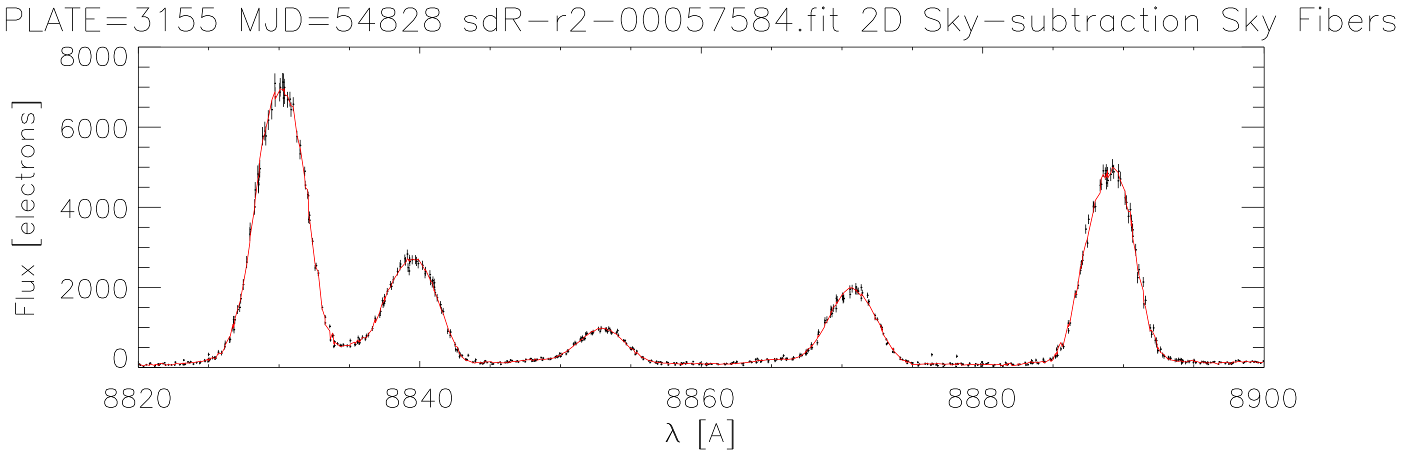

PLATE=3155 MJD=54828 sdR-r2-00057584.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
−600
8820
8840
8860
8880
8900
λ [A]

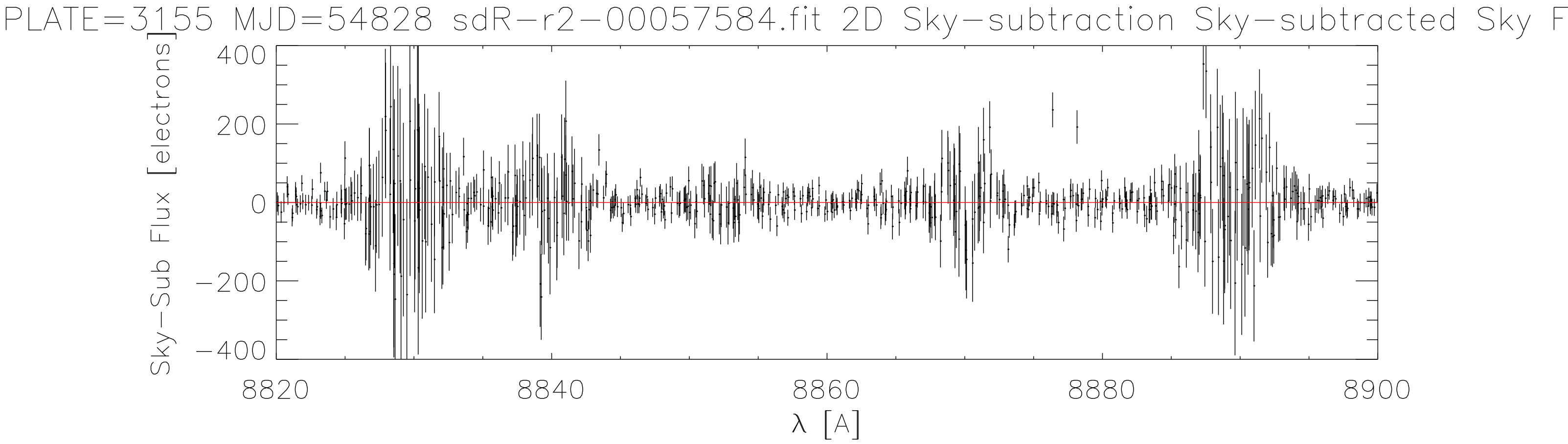
Number of sky fibers = 14

PLATE=3155 MJD=54828 sdR-r2-00057584.fit 1D Sky-subtraction Rescaled Errors



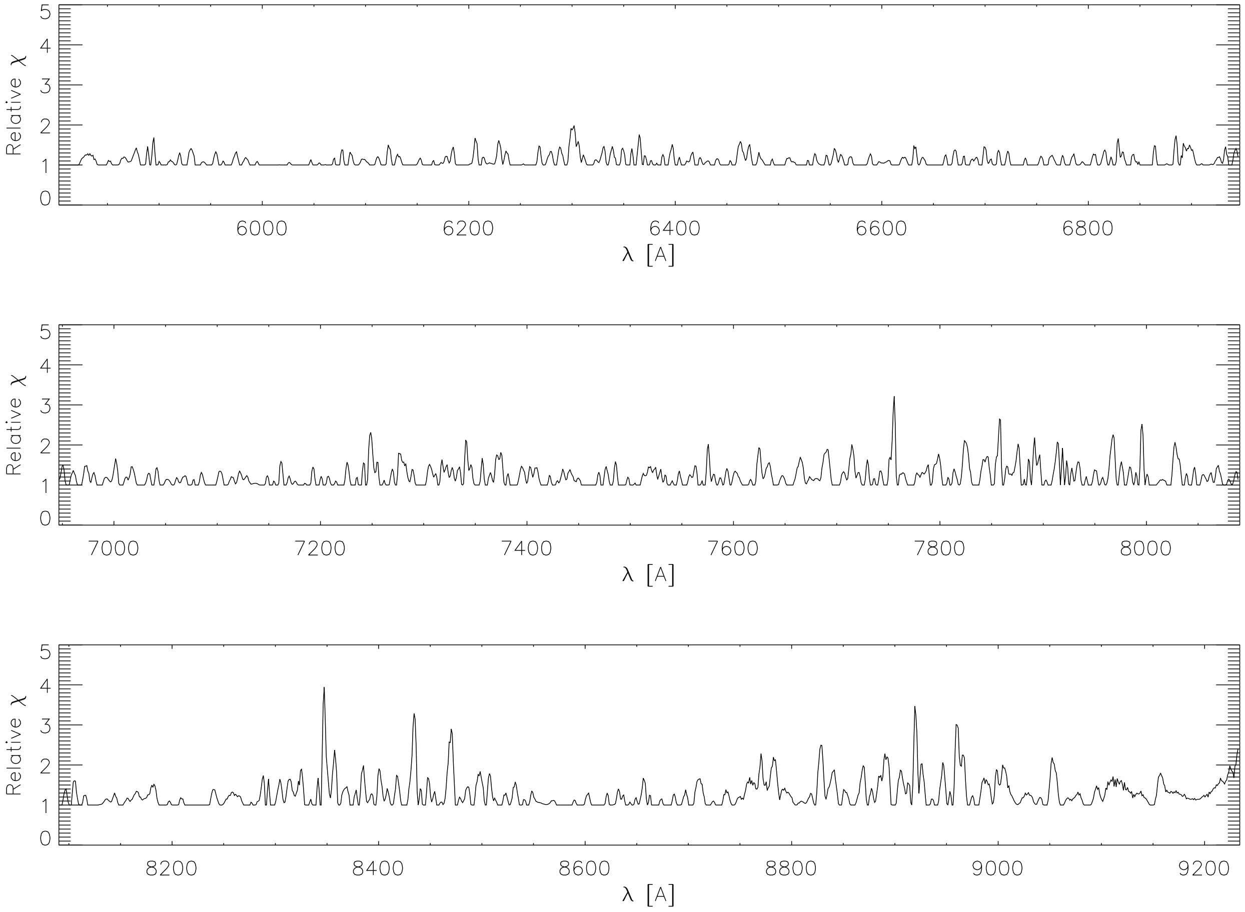

PLATE=3155 MJD=54828 sdR-r2-00057584.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−10
−5
0
5
10
50
100
150
200
250
300
Fiber number

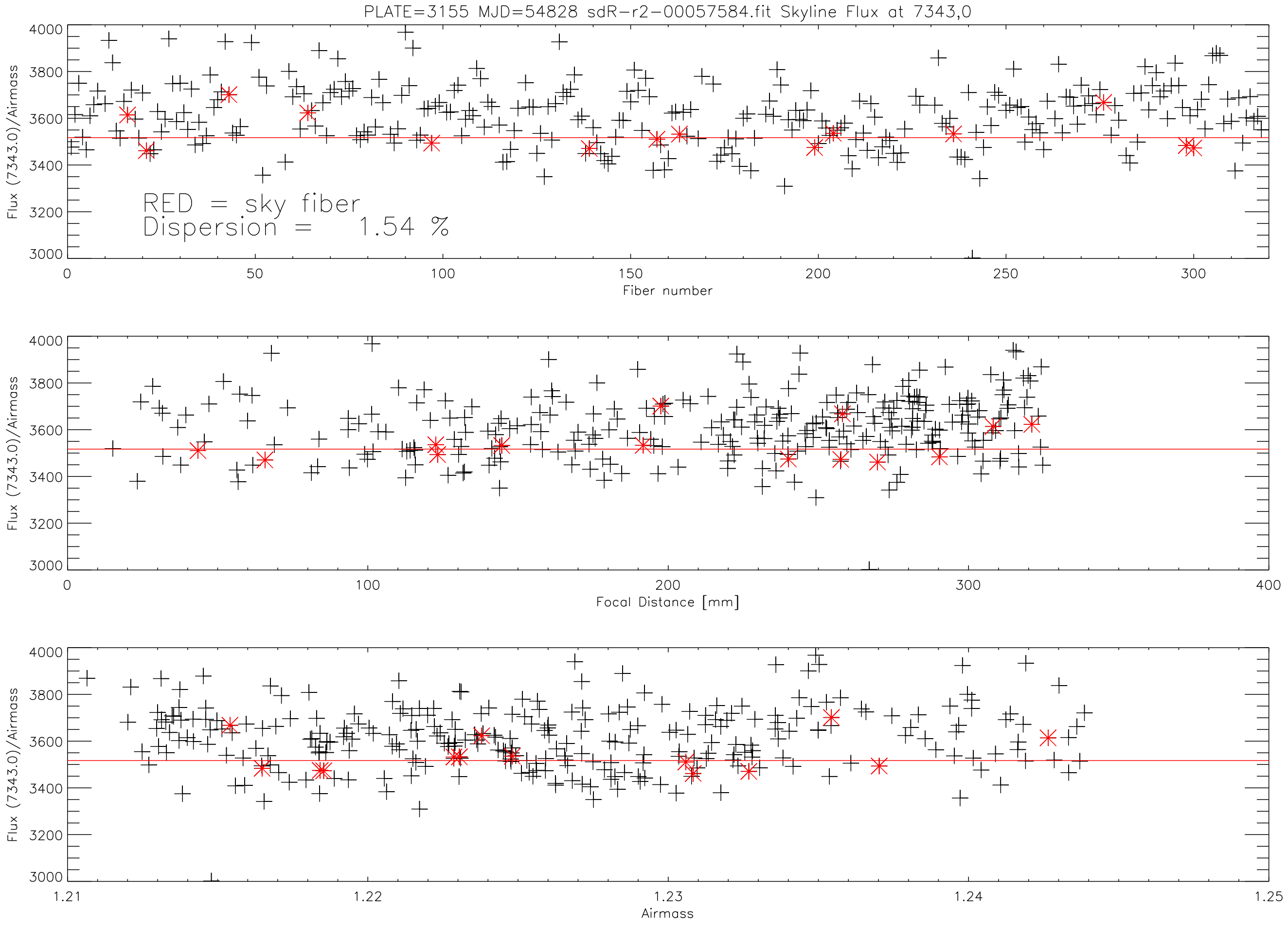

PLATE=3155 MJD=54828 sdR-r2-00057584.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
8000
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=3155 MJD=54828 sdR-r2-00057584.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
400
200
0
−200
−400
8820
8840
8860
8880
8900
λ [A]

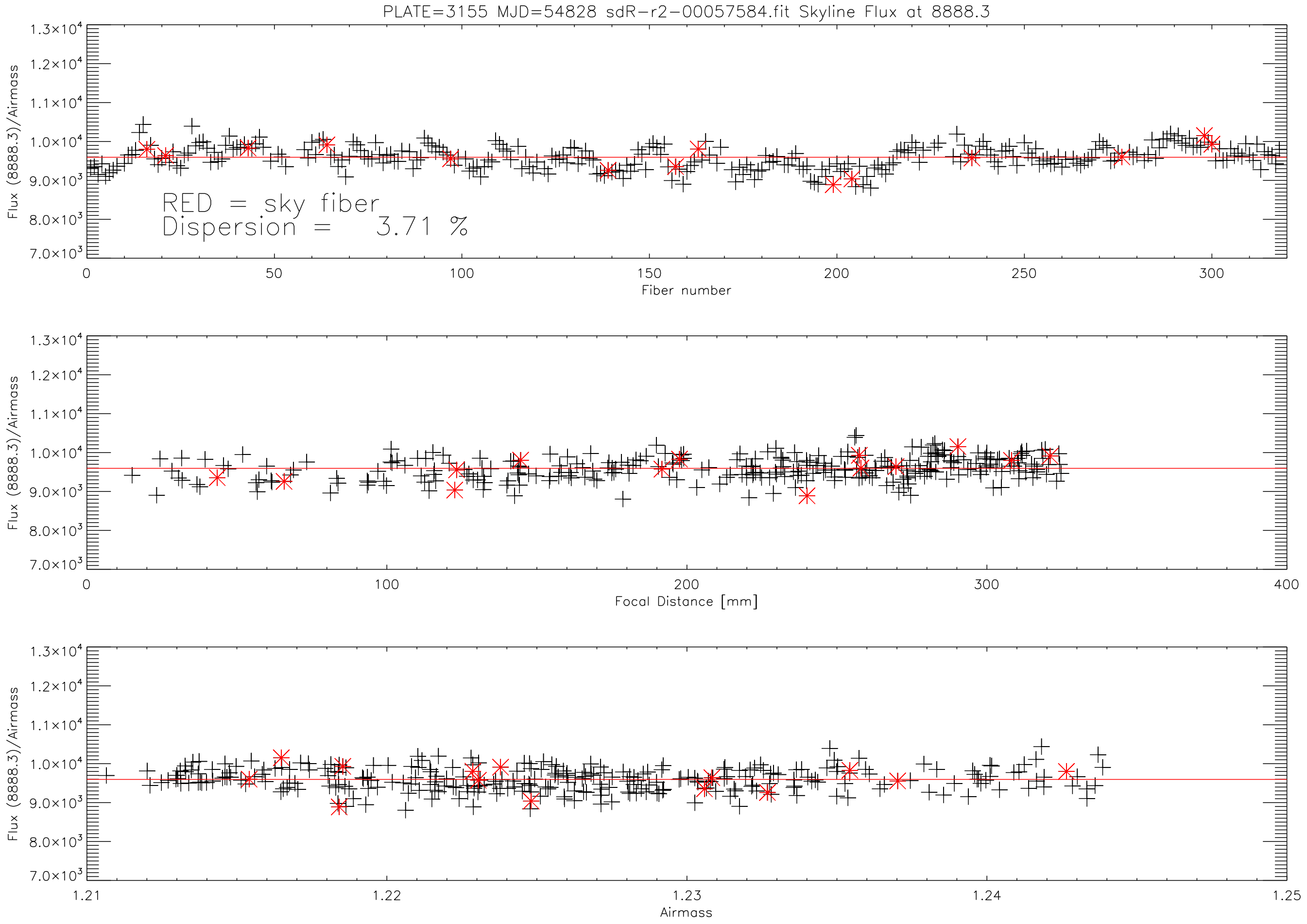
Number of sky fibers = 14

PLATE=3155 MJD=54828 sdR-r2-00057584.fit 2D Sky-subtraction Rescaled Errors





PLATE=3155 MJD=54828 sdR-r2-00057584.fit Skyline Flux at 7343,0


PLATE=3155 MJD=54828 sdR−r2−00057584.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
1.3×10^4
1.2×10^4
1.1×10^4
1.0×10^4
9.0×10^3
8.0×10^3
7.0×10^3
RED = sky fiber
Dispersion = 3.71 %
0
50
100
150
200
250
300
Fiber number
0
100
200
300
400
Focal Distance [mm]
1.21
1.22
1.23
1.24
1.25
Airmass