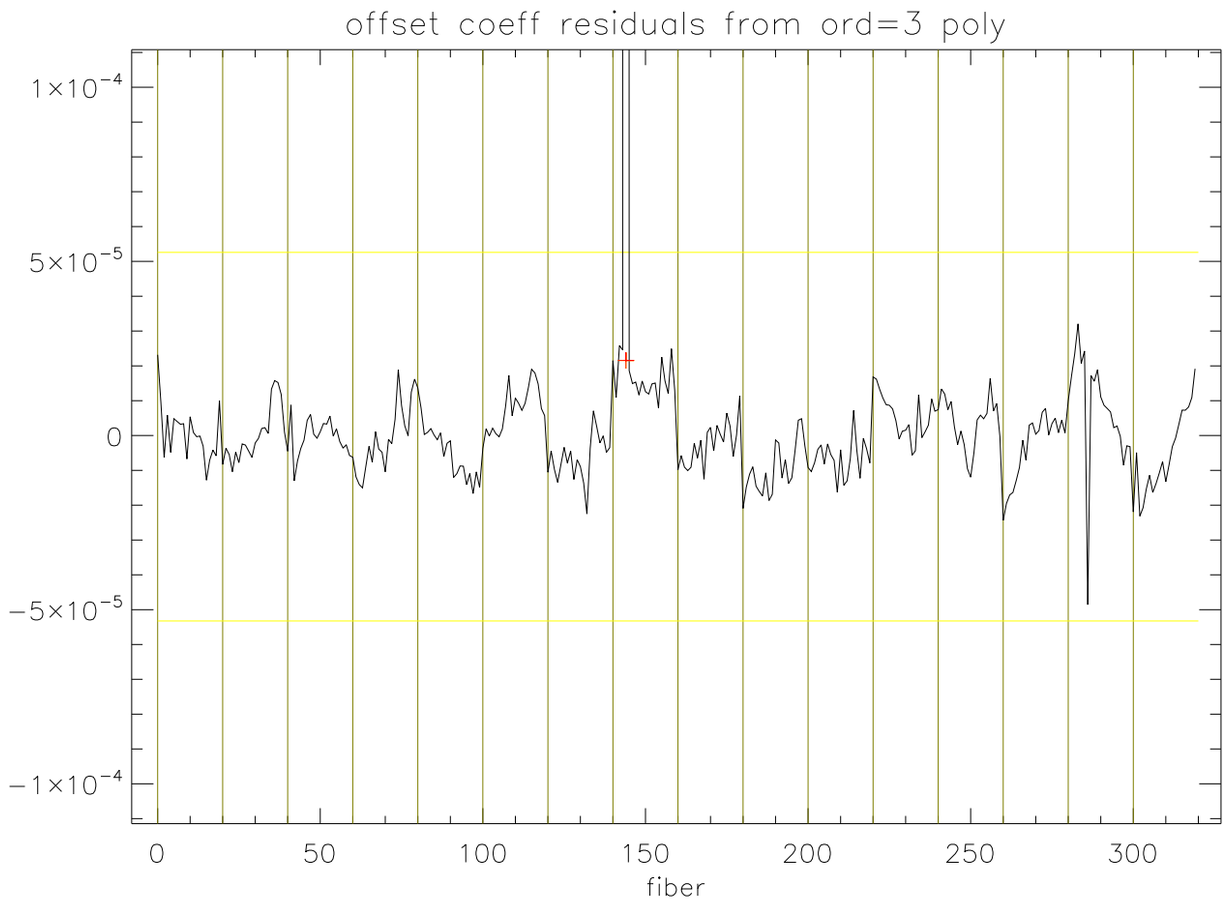
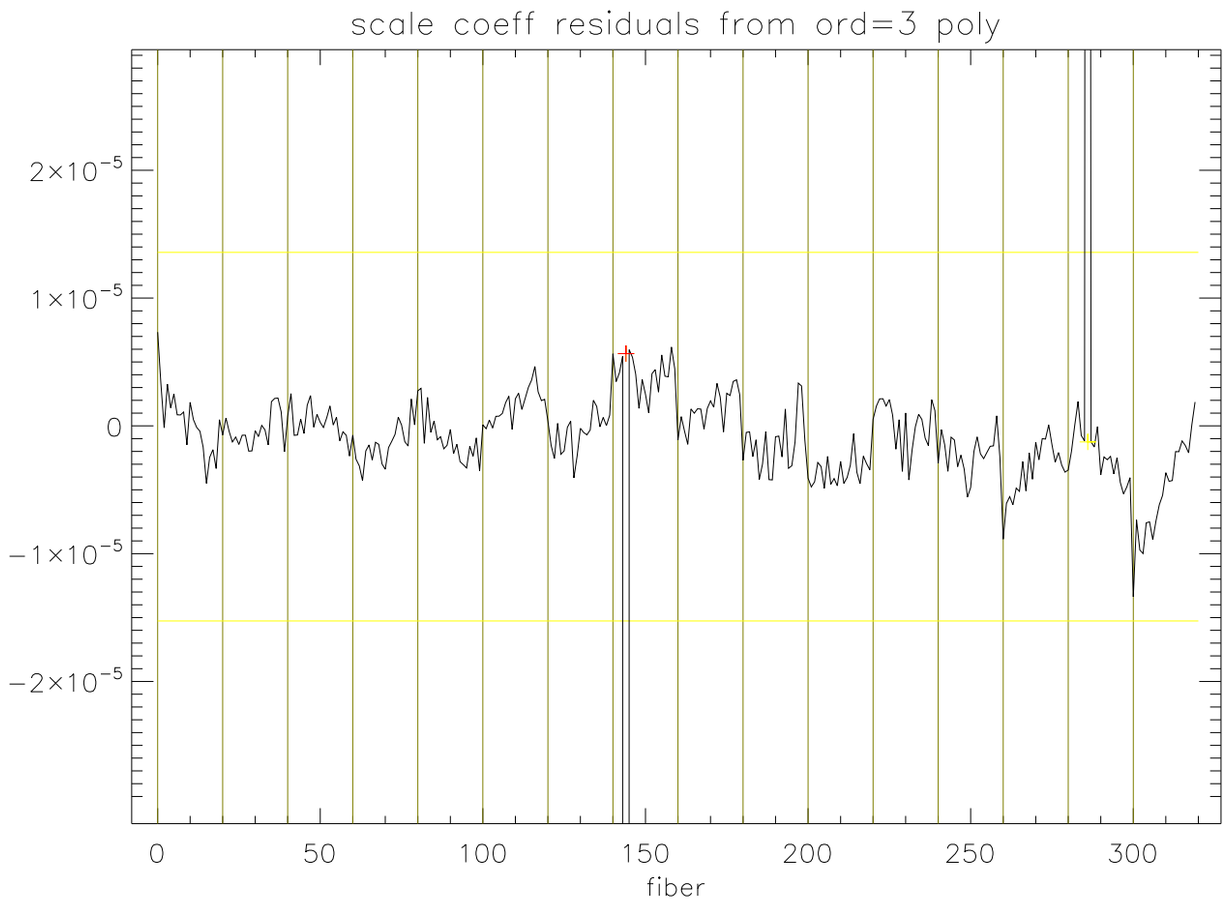
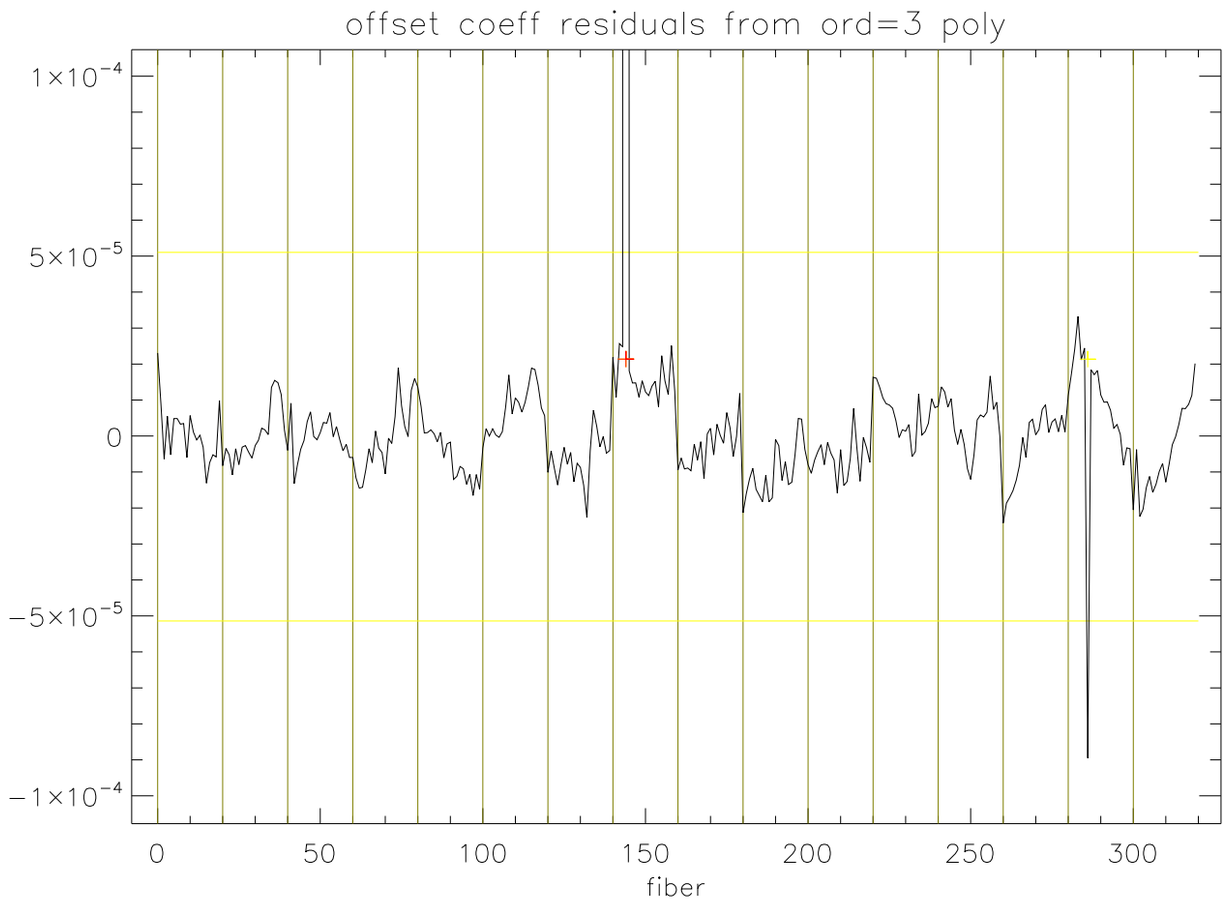
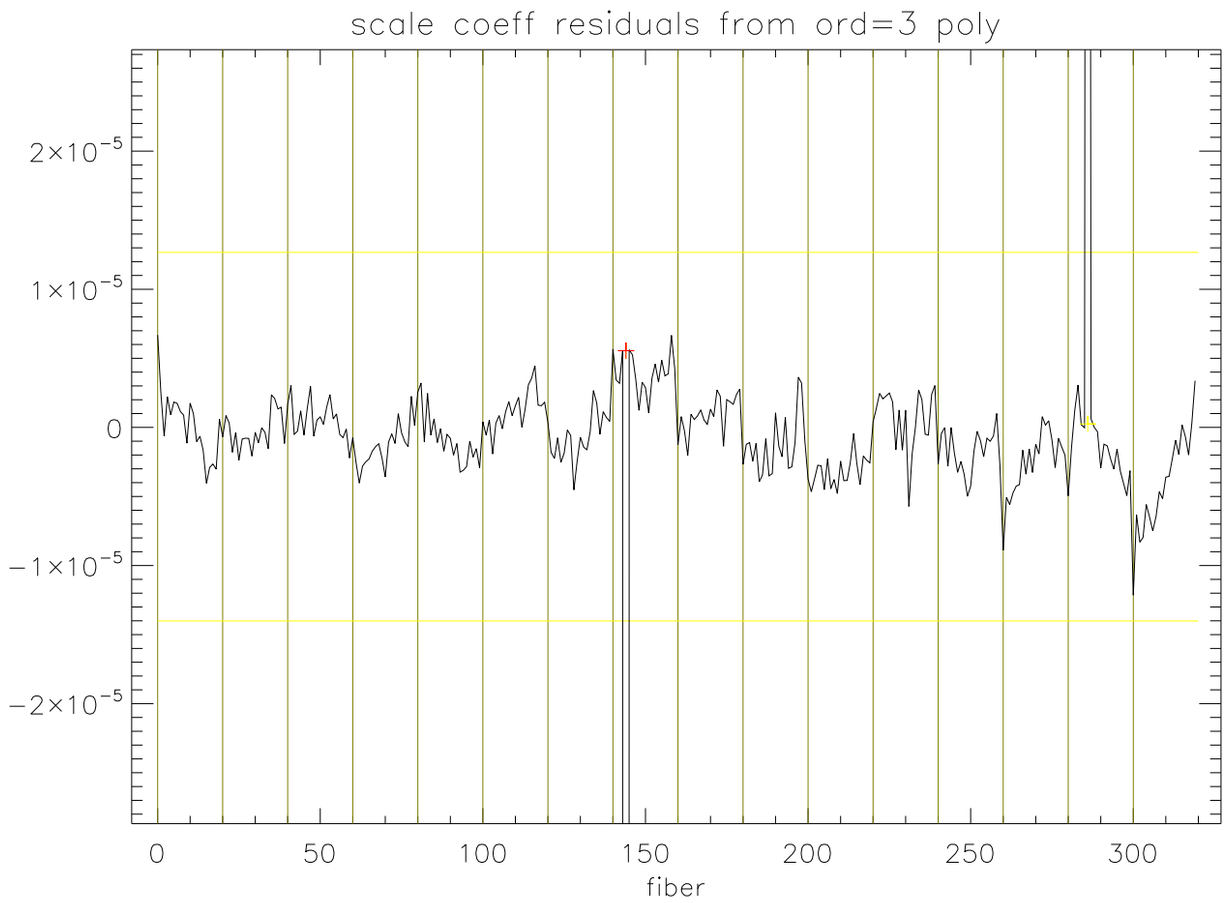
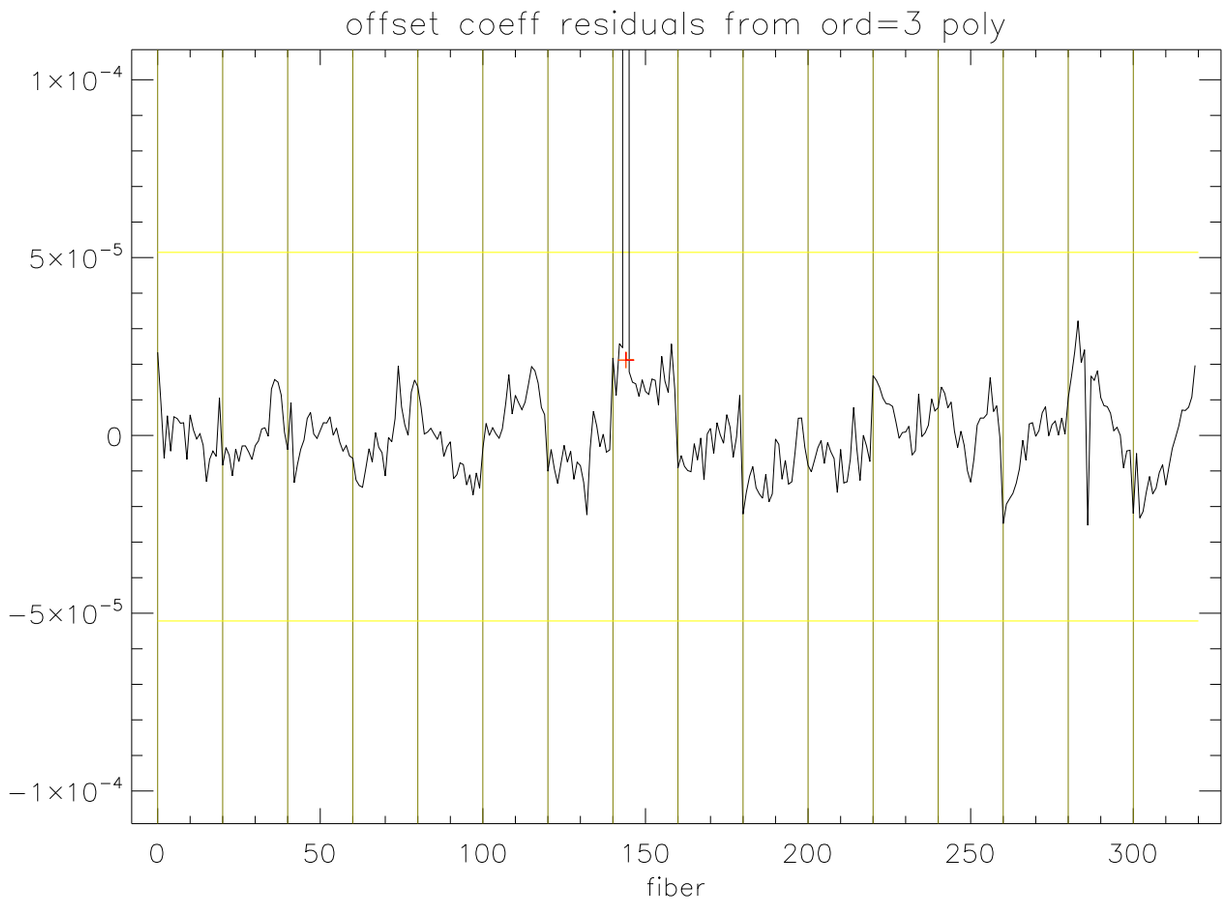
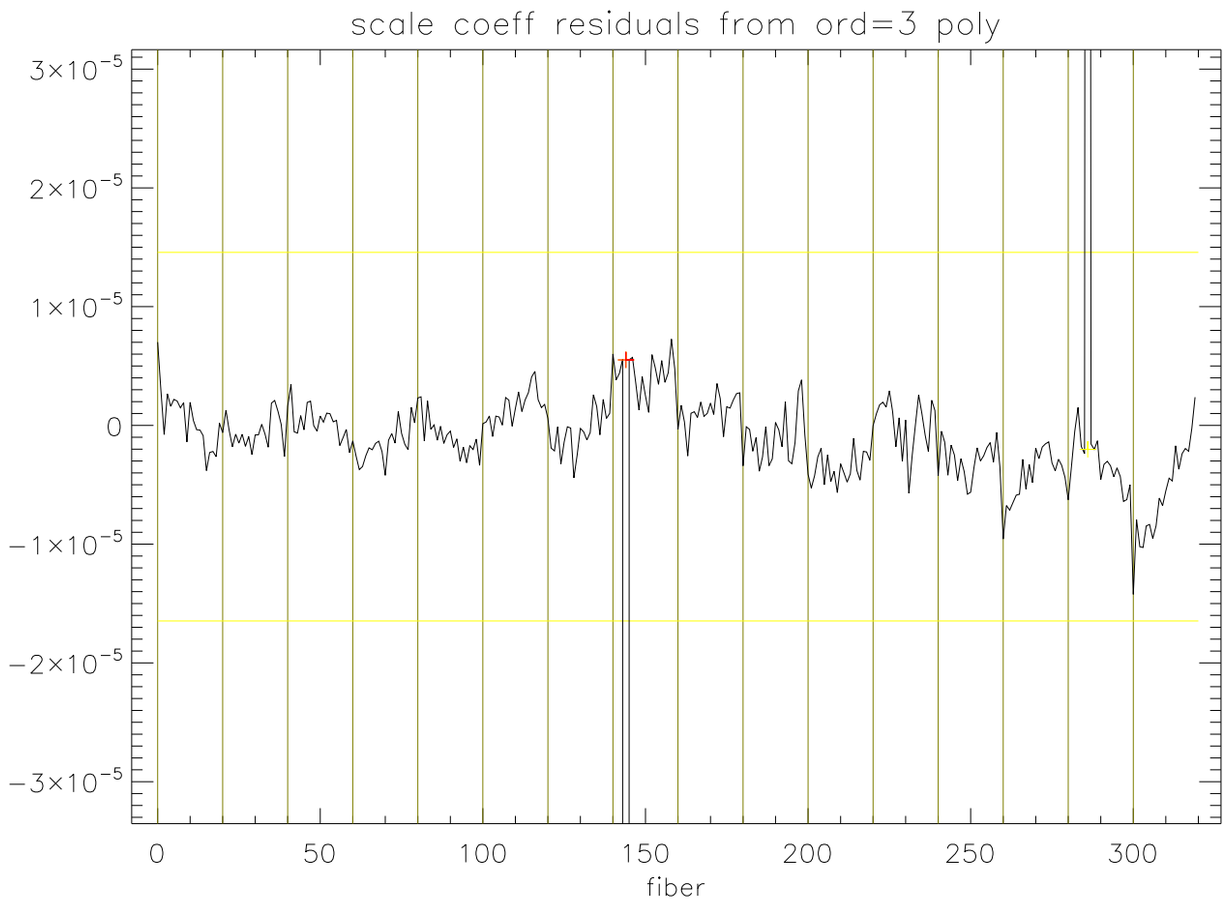

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

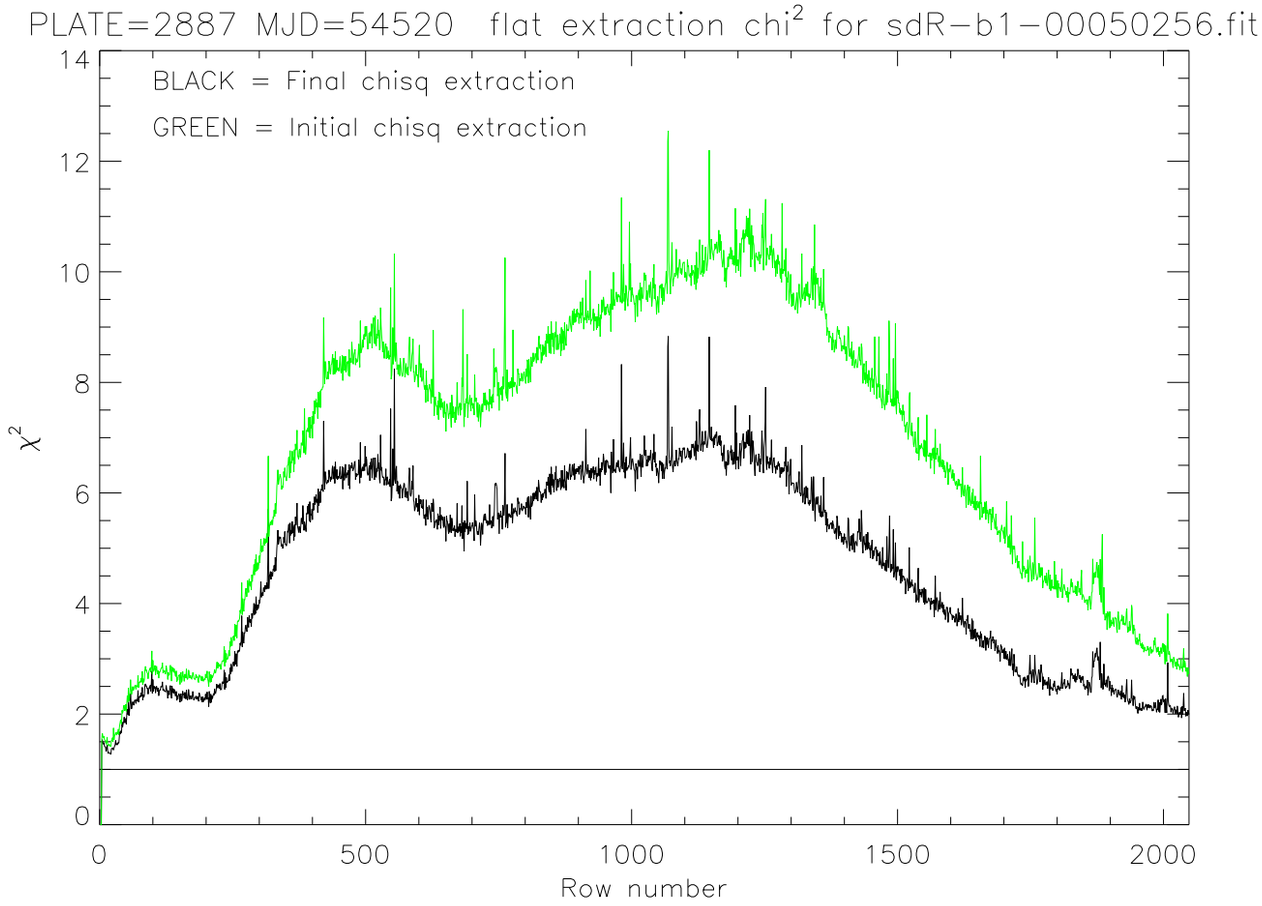

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

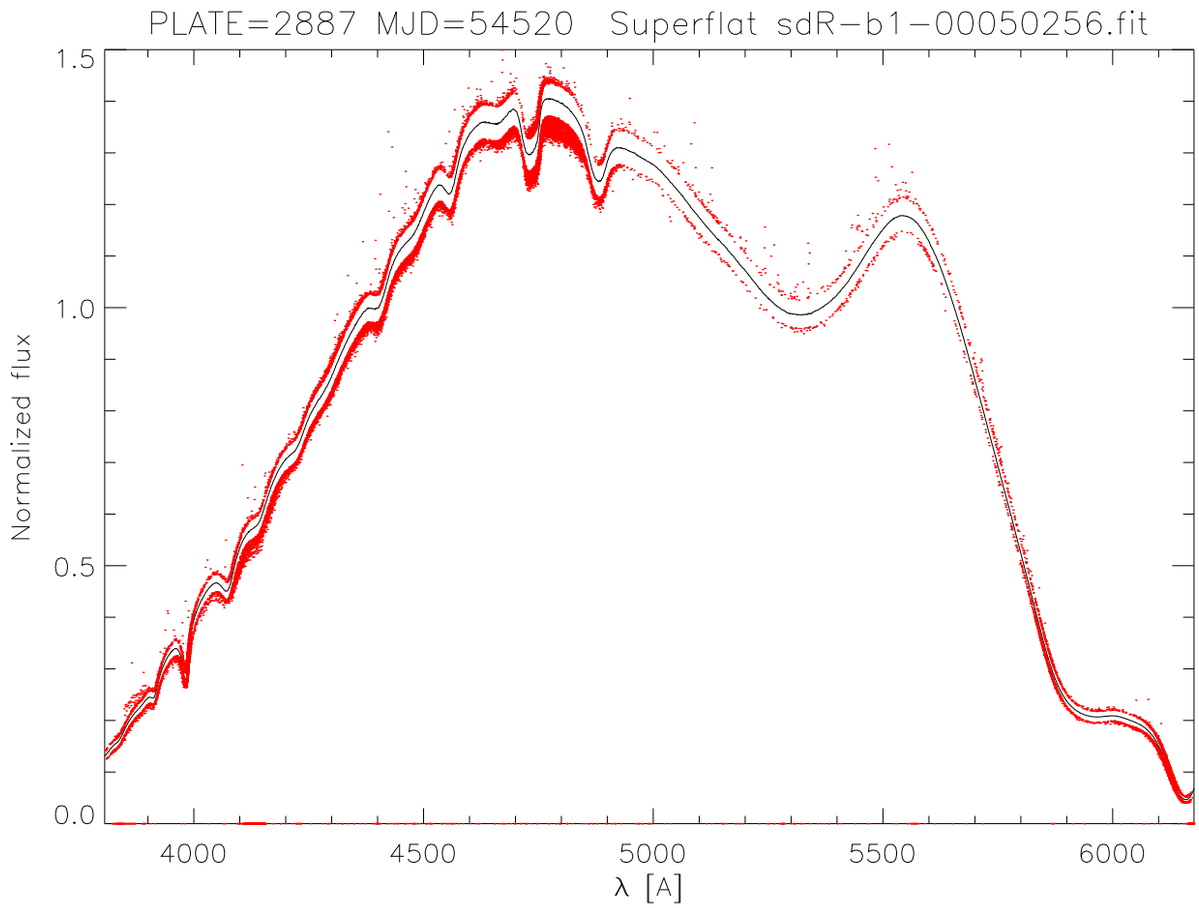

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

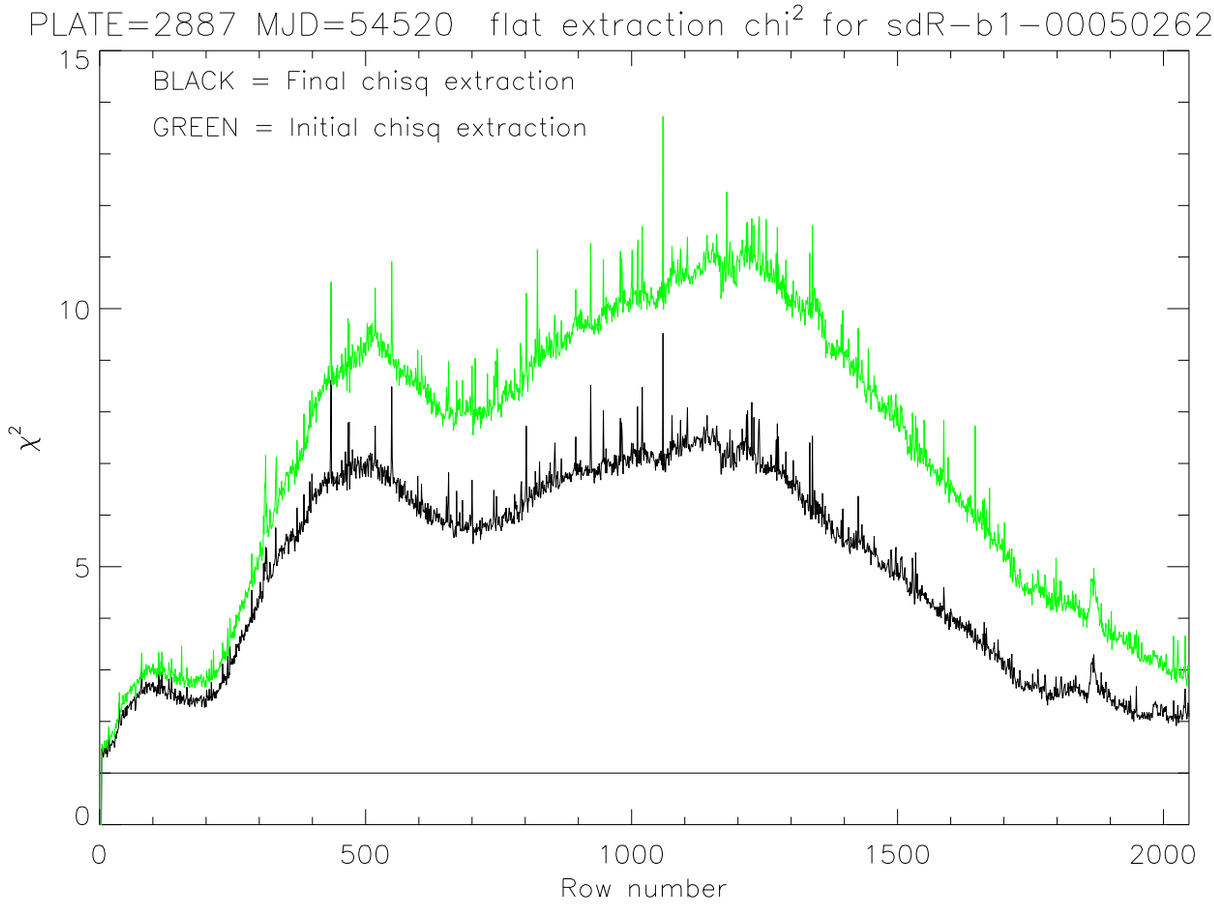

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

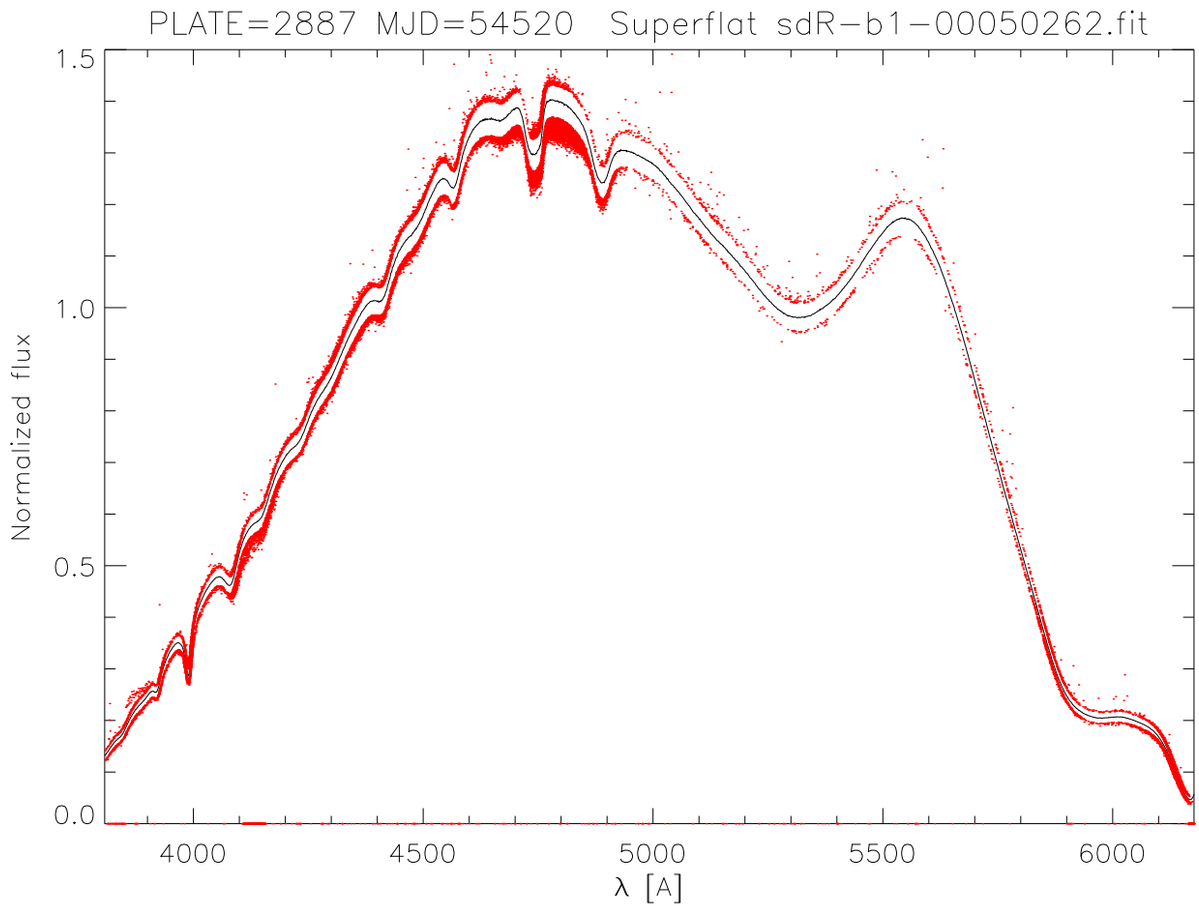

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

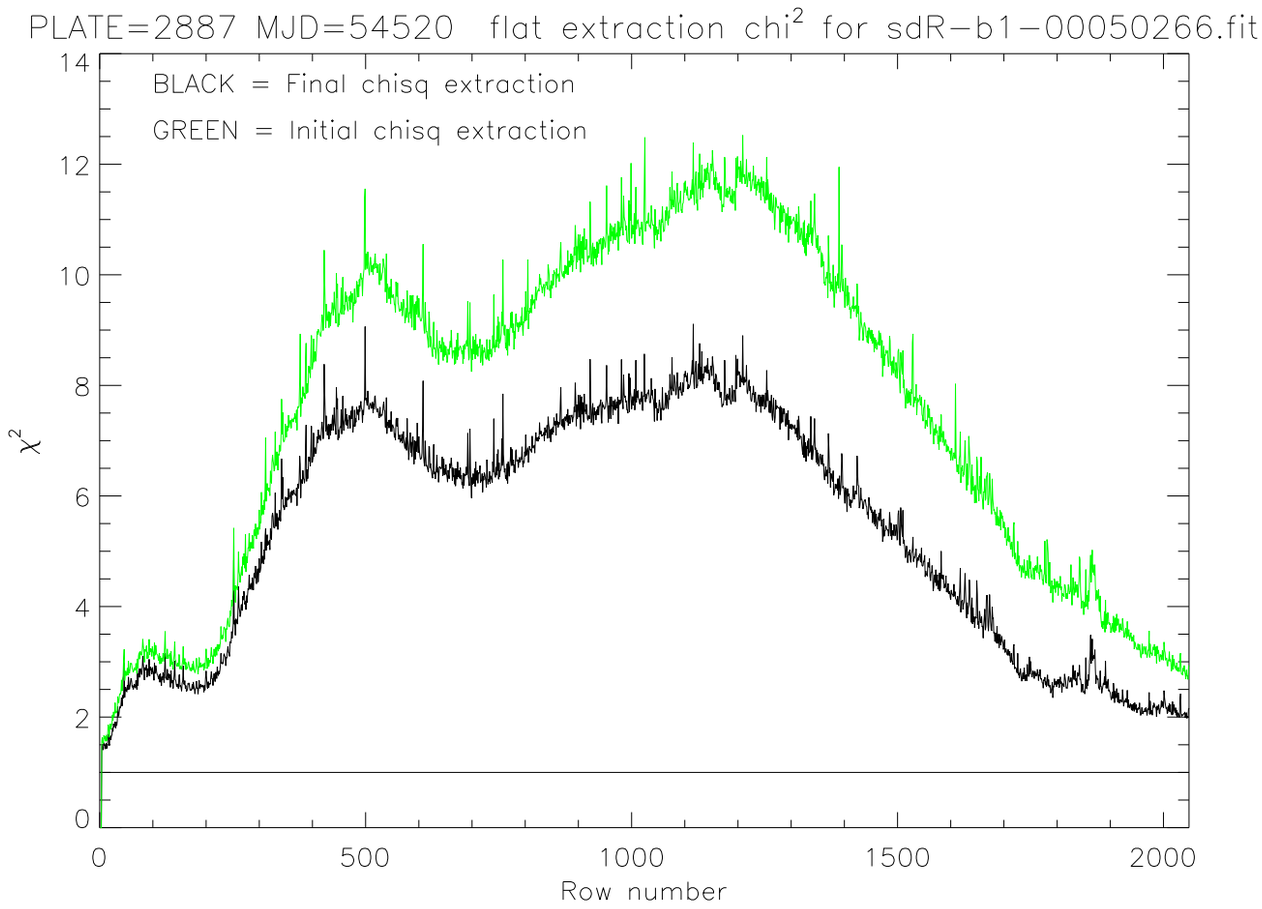

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

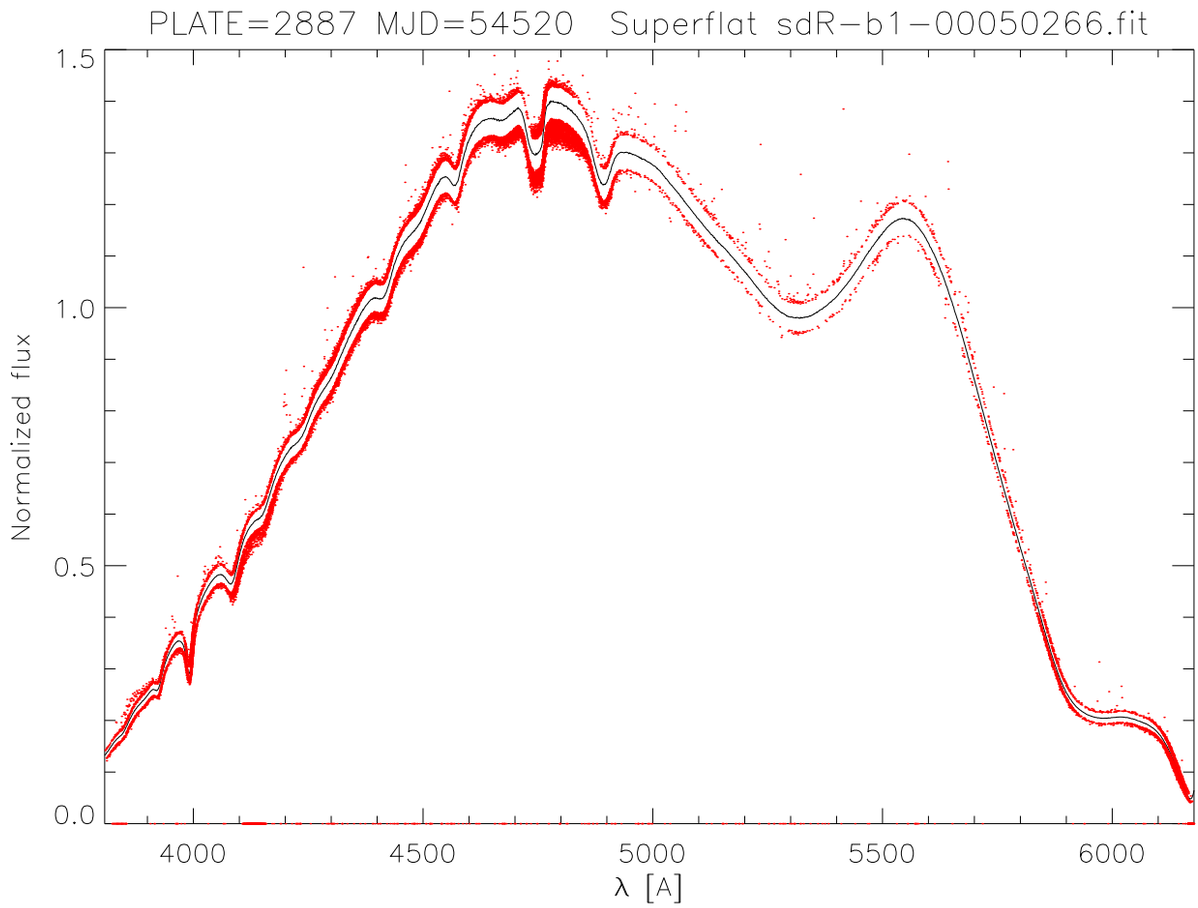

PLATE=2887 MJD=54520 flat extraction chi^2 for sdR-b1-00050256.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

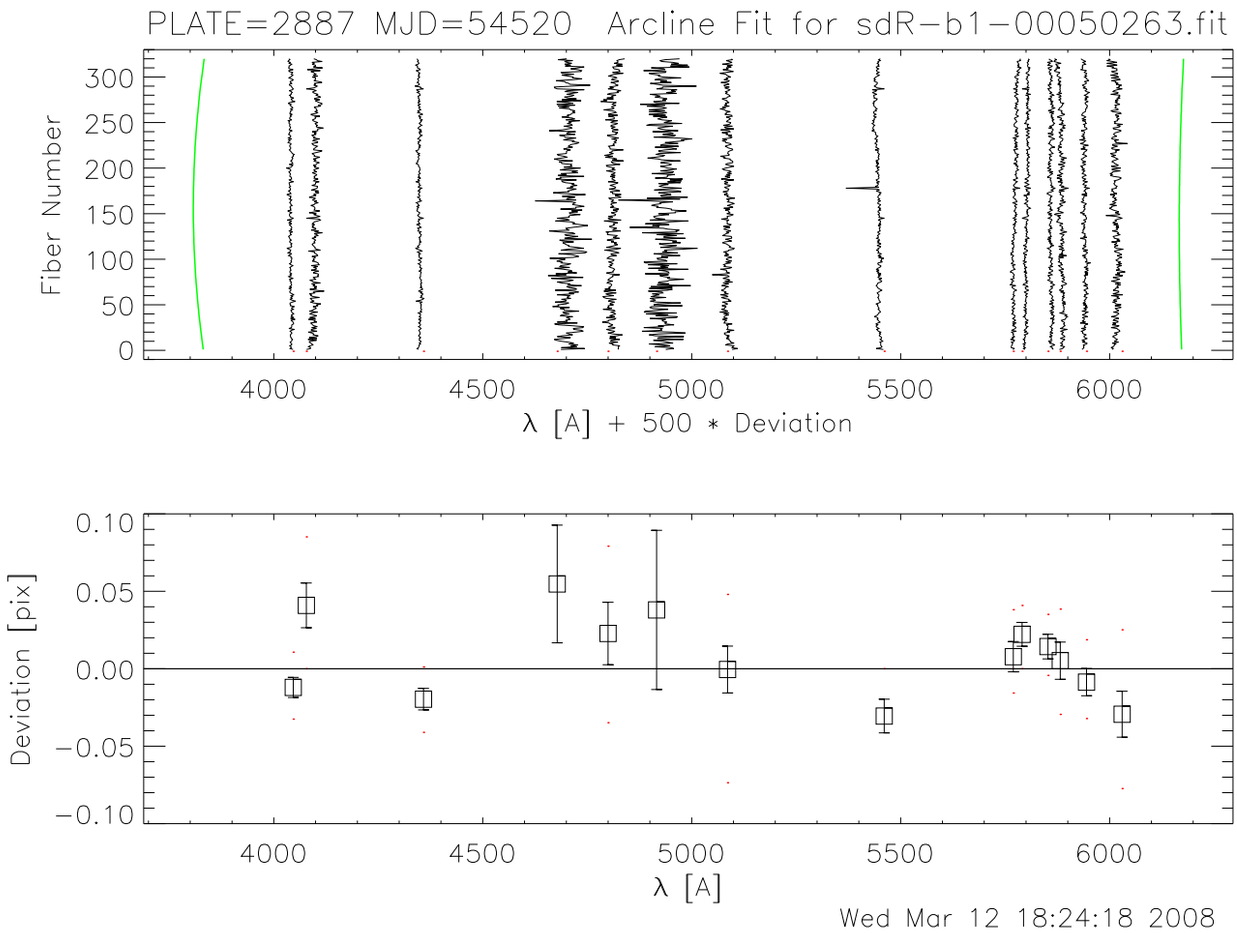

PLATE=2887 MJD=54520 Superflat sdR-b1-00050256.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

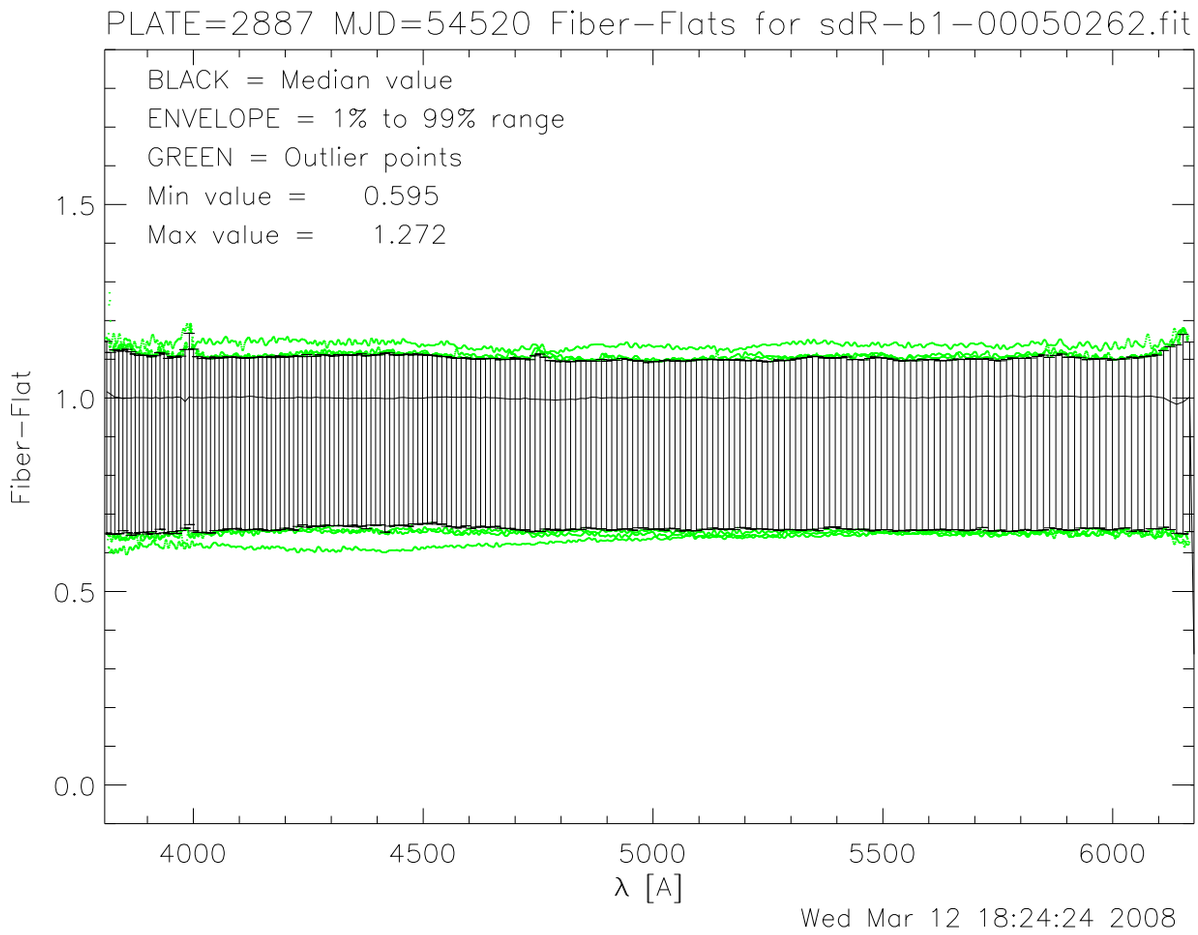

PLATE=2887 MJD=54520 flat extraction chi^2 for sdR-b1-00050262.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
5
10
15
0
500
1000
1500
2000

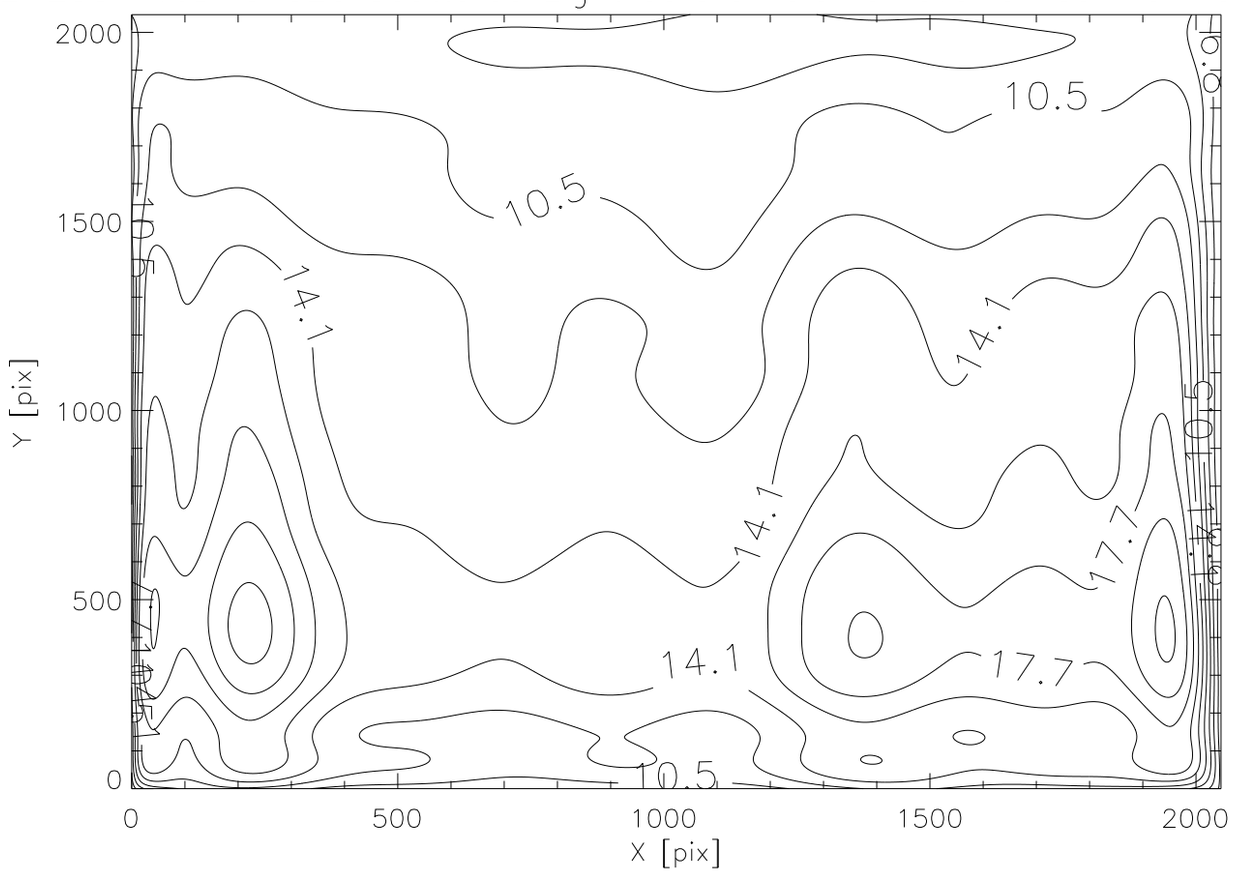

PLATE=2887 MJD=54520 Superflat sdR-b1-00050262.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

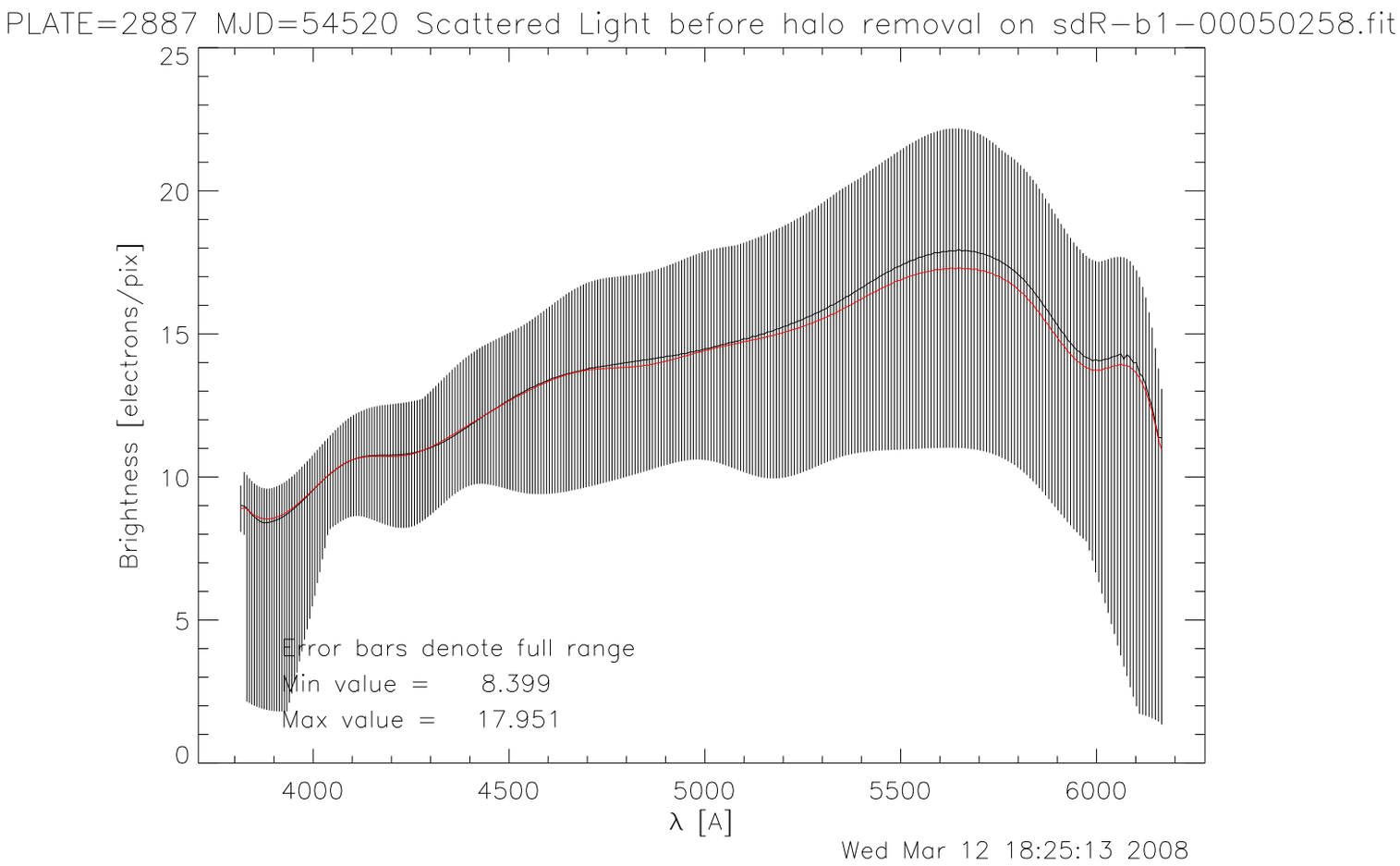

PLATE=2887 MJD=54520 flat extraction chi^2 for sdR-b1-00050266.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

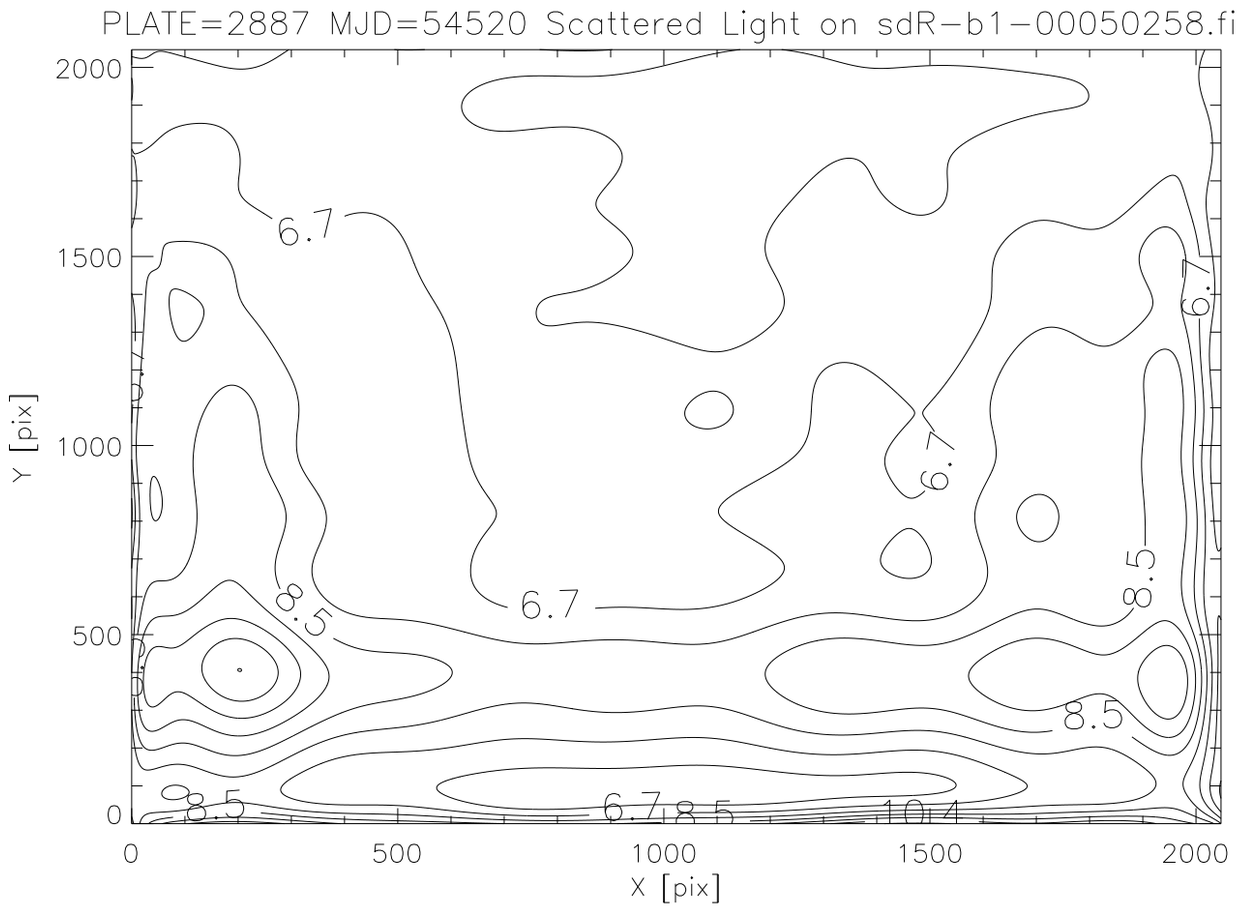

PLATE=2887 MJD=54520 Superflat sdR-b1-00050266.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

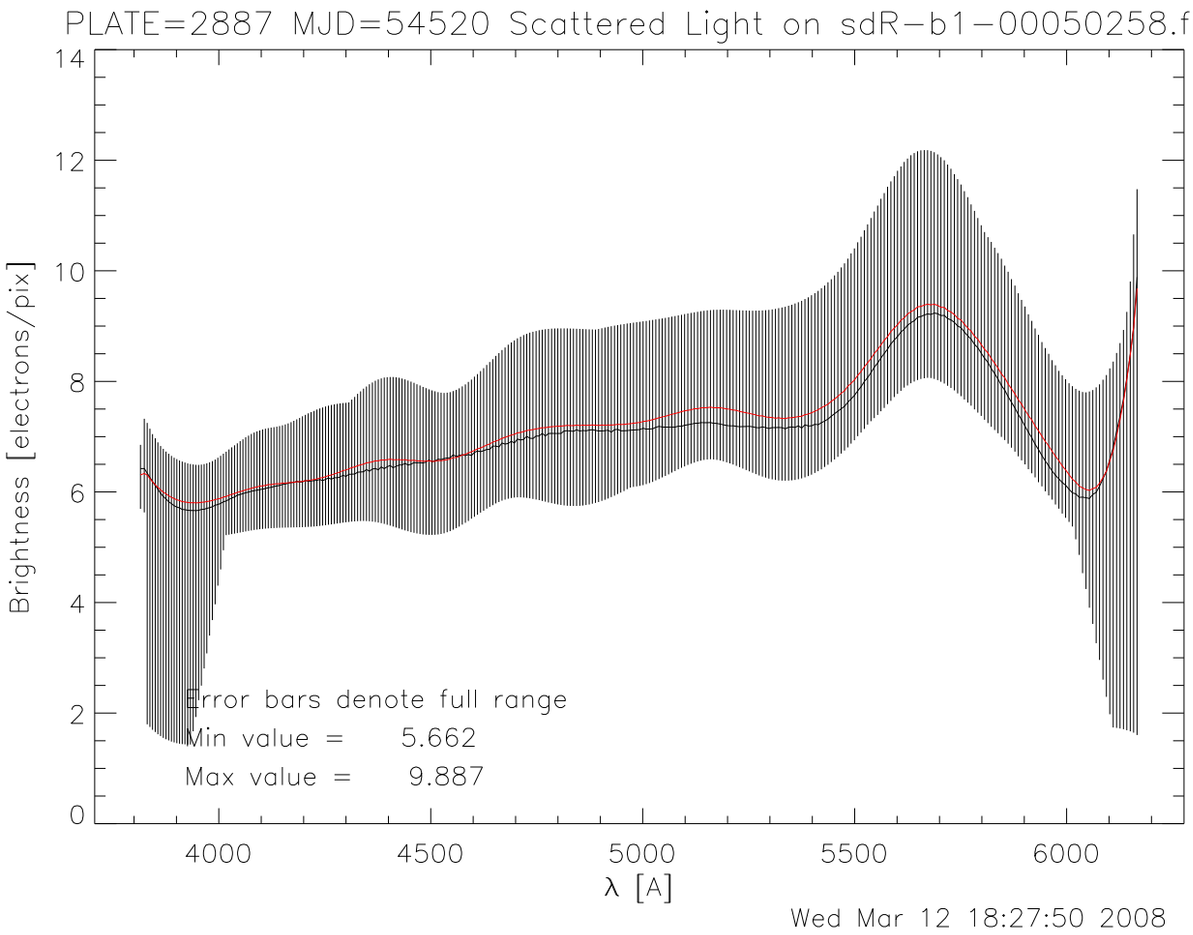

PLATE=2887 MJD=54520 Arcline Fit for sdR-b1-00050263.fit
Fiber Number
0
50
100
150
200
250
300
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:24:18 2008

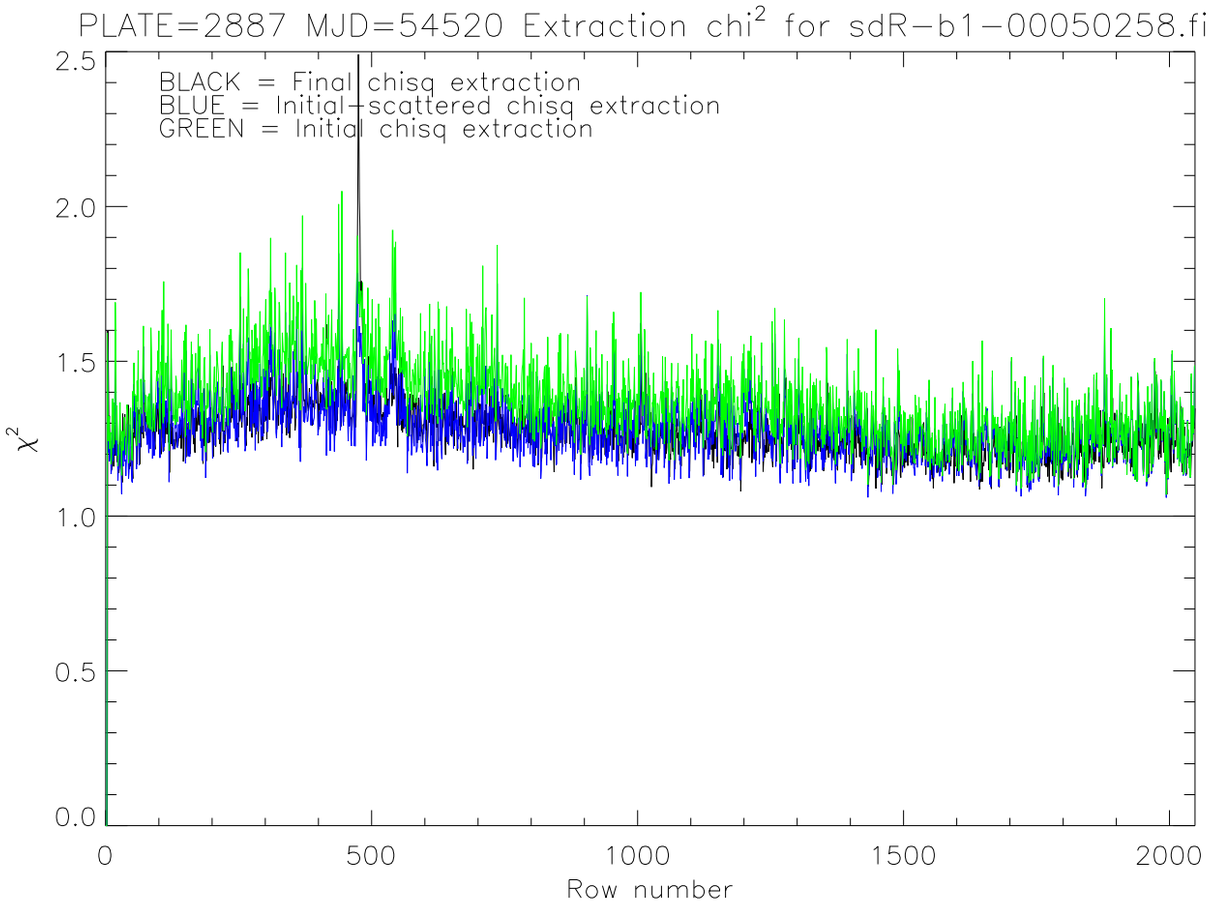

PLATE=2887 MJD=54520 Fiber-Flats for sdR-b1-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.595
Max value = 1.272
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:24:24 2008

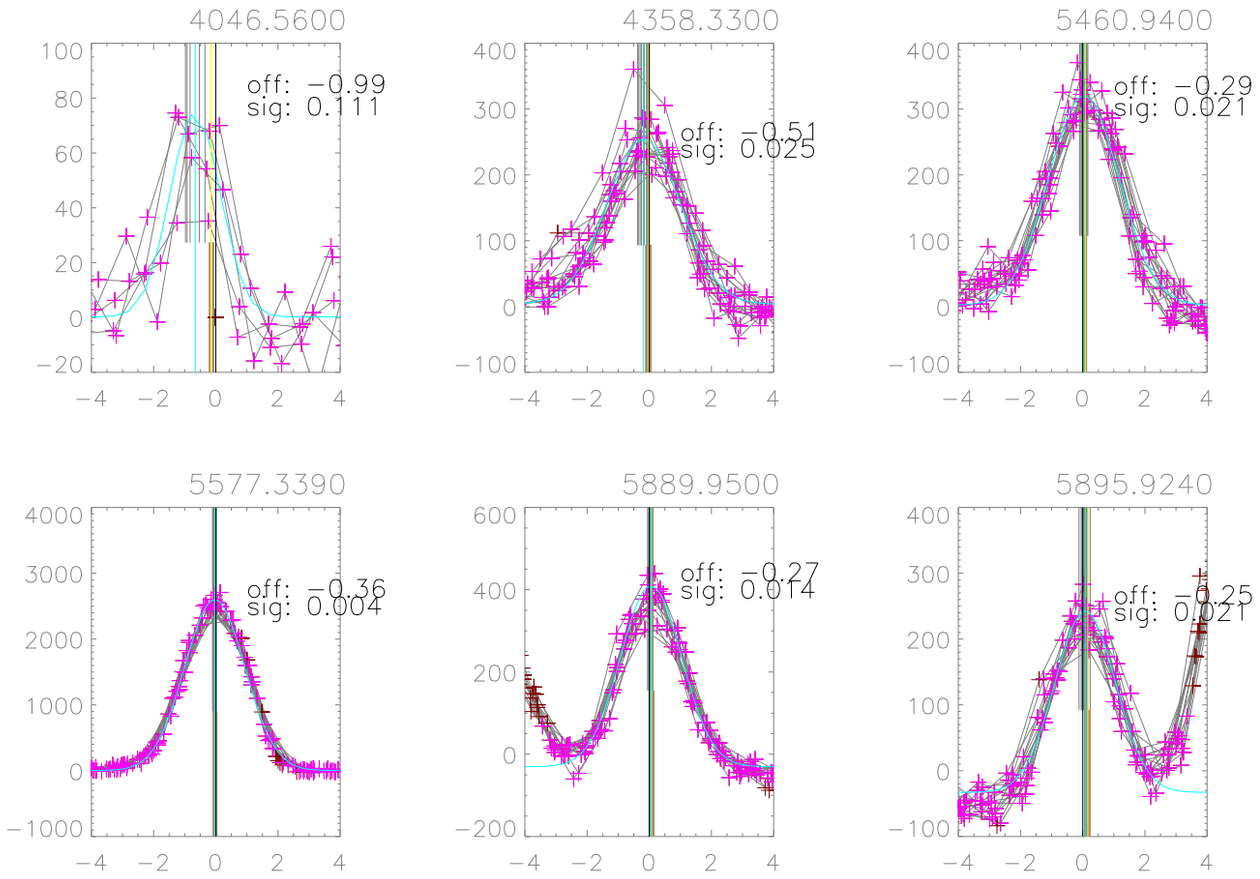

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b1-00050258.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.5
14.1
17.7

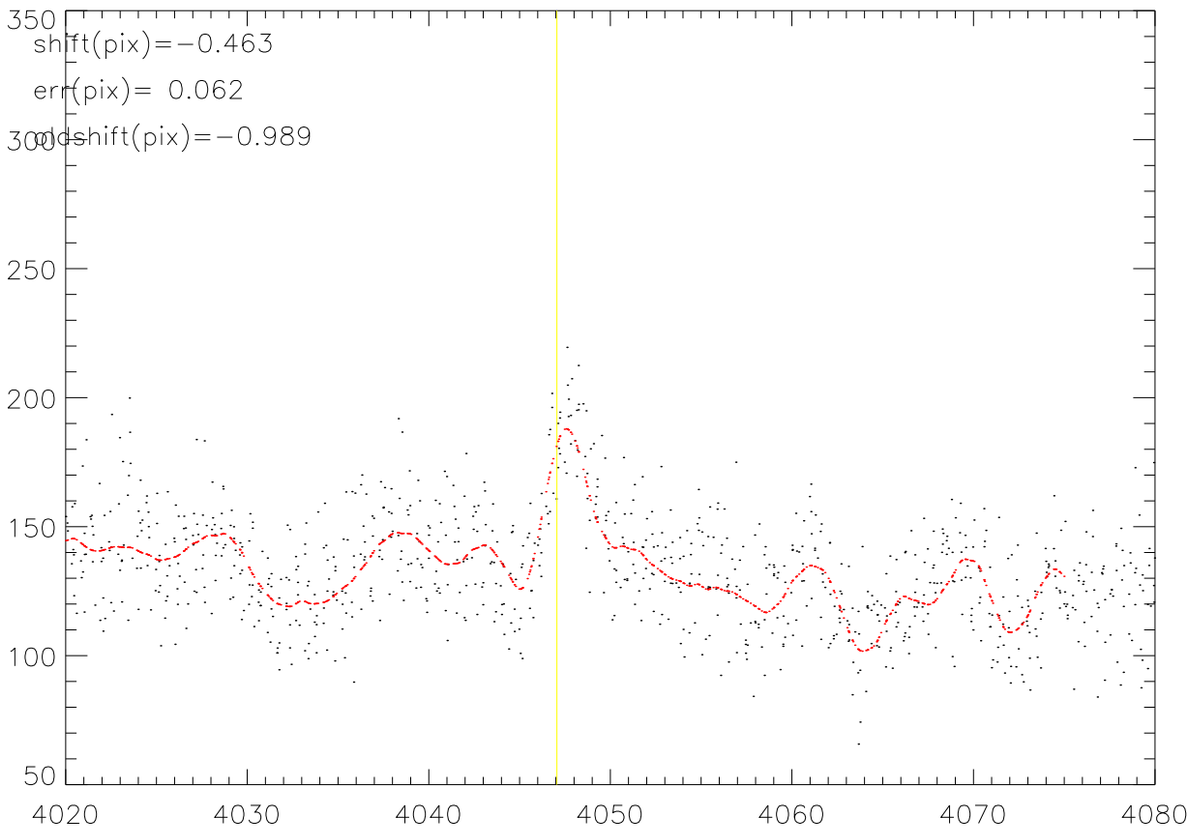

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b1-00050258.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.399
Max value = 17.951
Wed Mar 12 18:25:13 2008

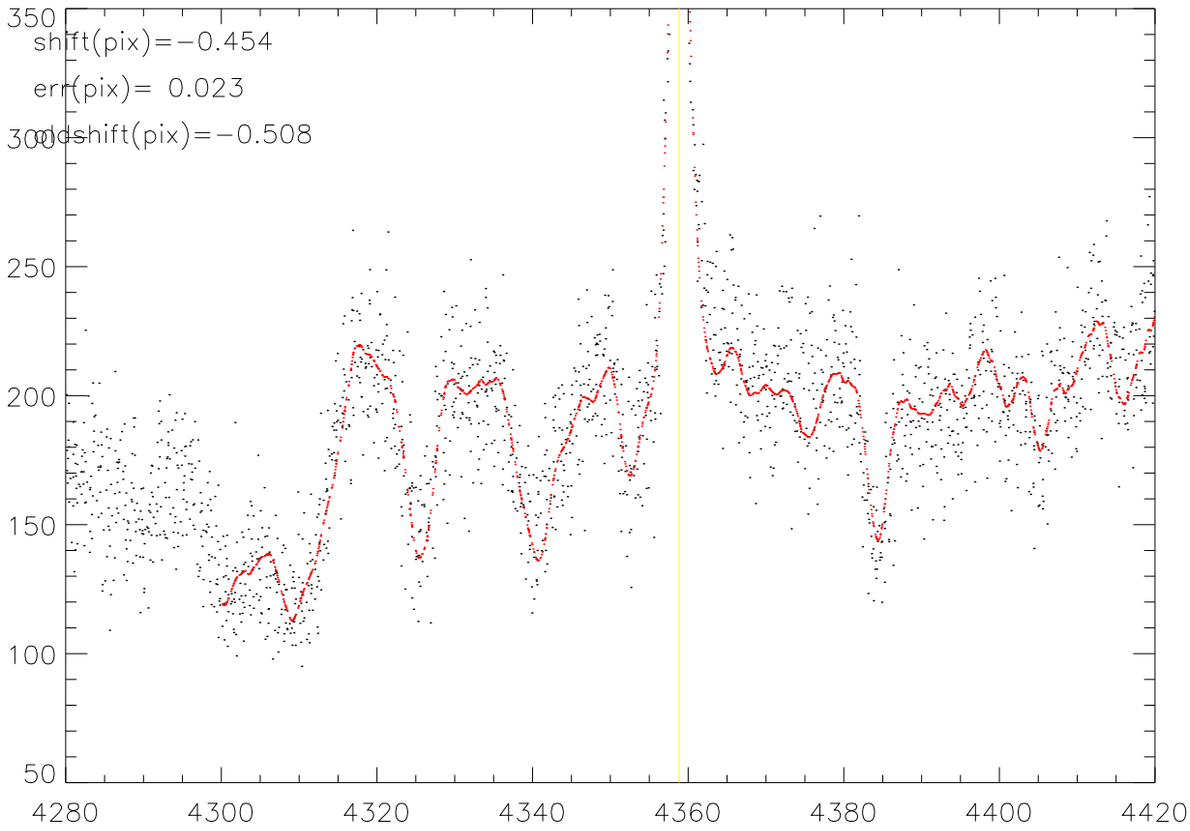

PLATE=2887 MJD=54520 Scattered Light on sdR-b1-00050258.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.7
8.5
10.4

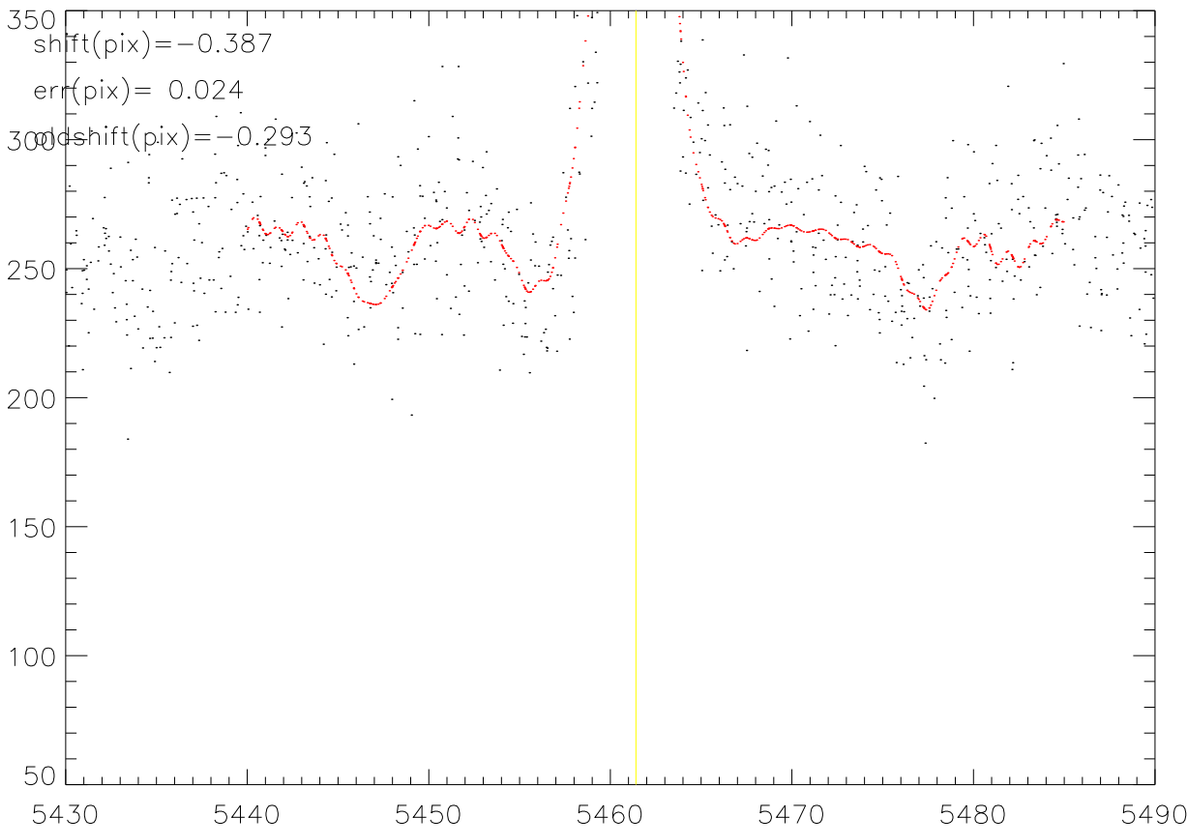

PLATE=2887 MJD=54520 Scattered Light on sdR-b1-00050258.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.662
Max value = 9.887
Wed Mar 12 18:27:50 2008

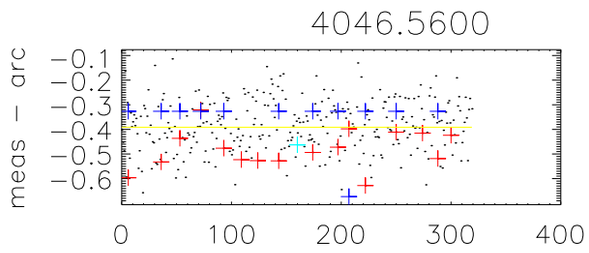

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-b1-00050258.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

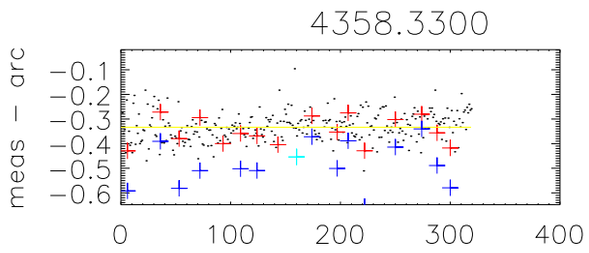

4046.5600
off: −0.99
sig: 0.111
4358.3300
off: −0.51
sig: 0.025
5460.9400
off: −0.29
sig: 0.021
5577.3390
off: −0.36
sig: 0.004
5889.9500
off: −0.27
sig: 0.014
5895.9240
off: −0.25
sig: 0.021

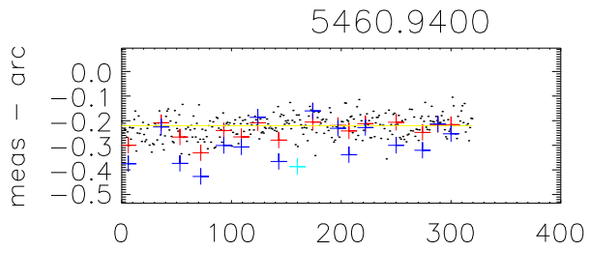

shift(pix)=−0.463
err(pix)= 0.062
oldshift(pix)=−0.989
350
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

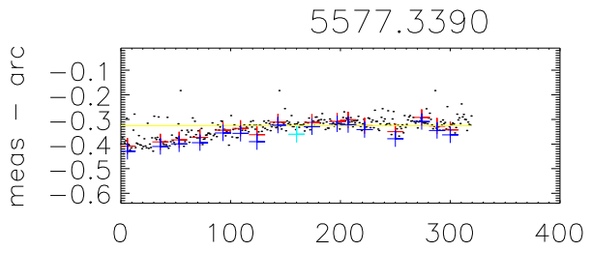

shift(pix)=−0.454
err(pix)= 0.023
oldshift(pix)=−0.508
350
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

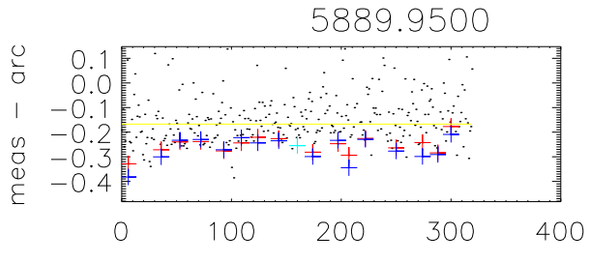

shift(pix)=−0.387
err(pix)= 0.024
oldshift(pix)=−0.293
350
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

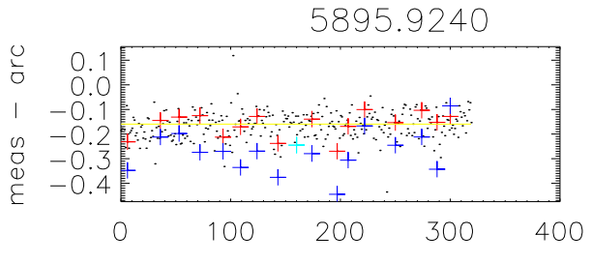

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

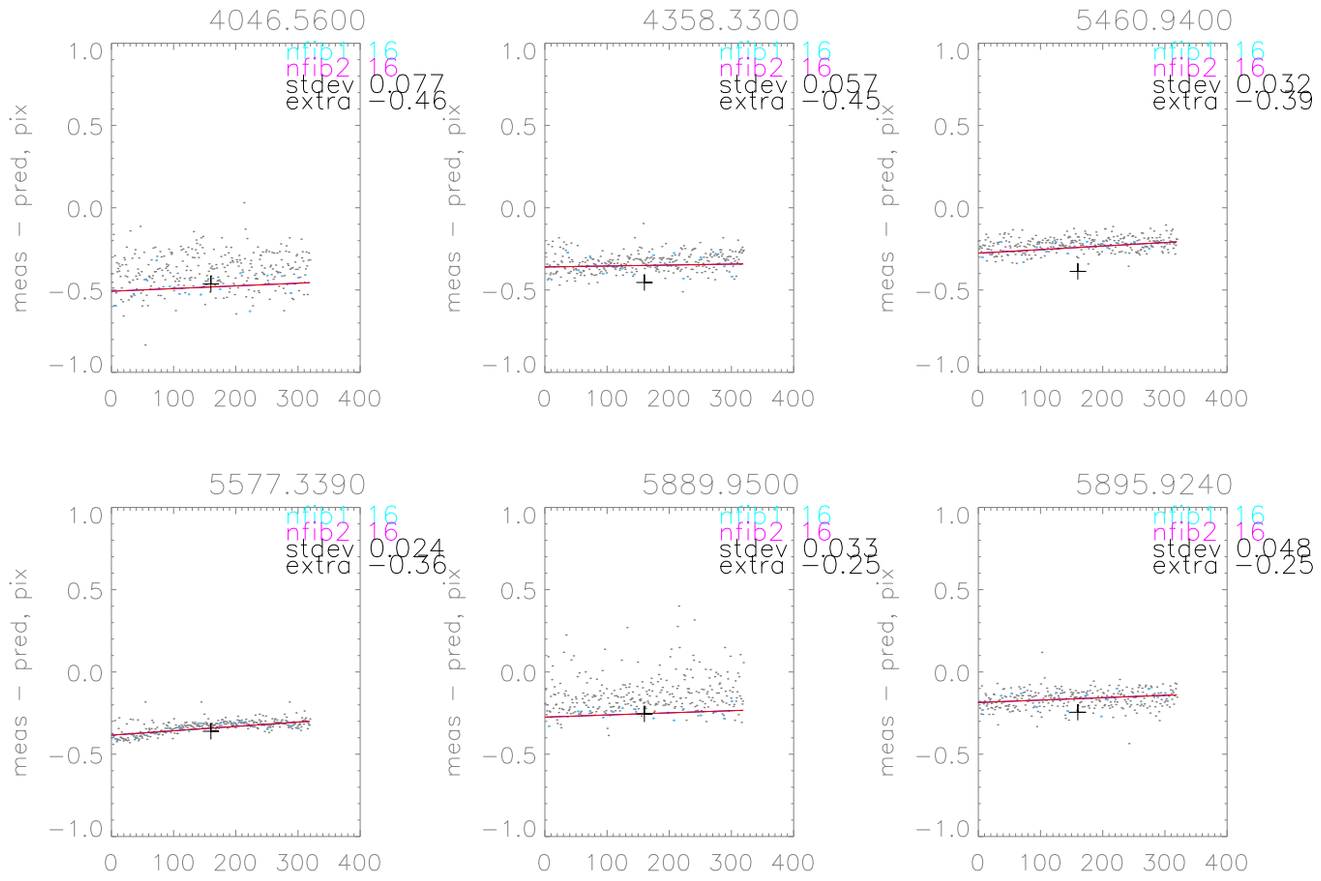

4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

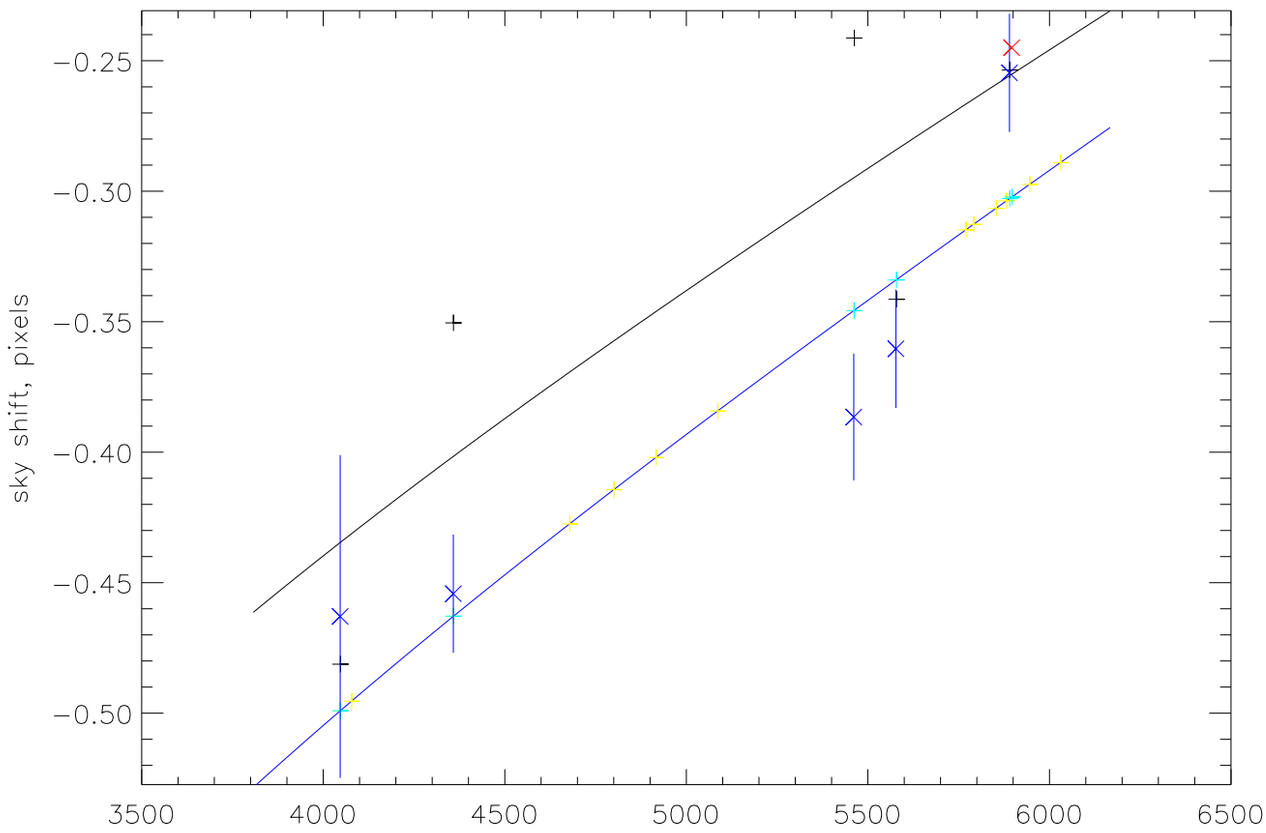

5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

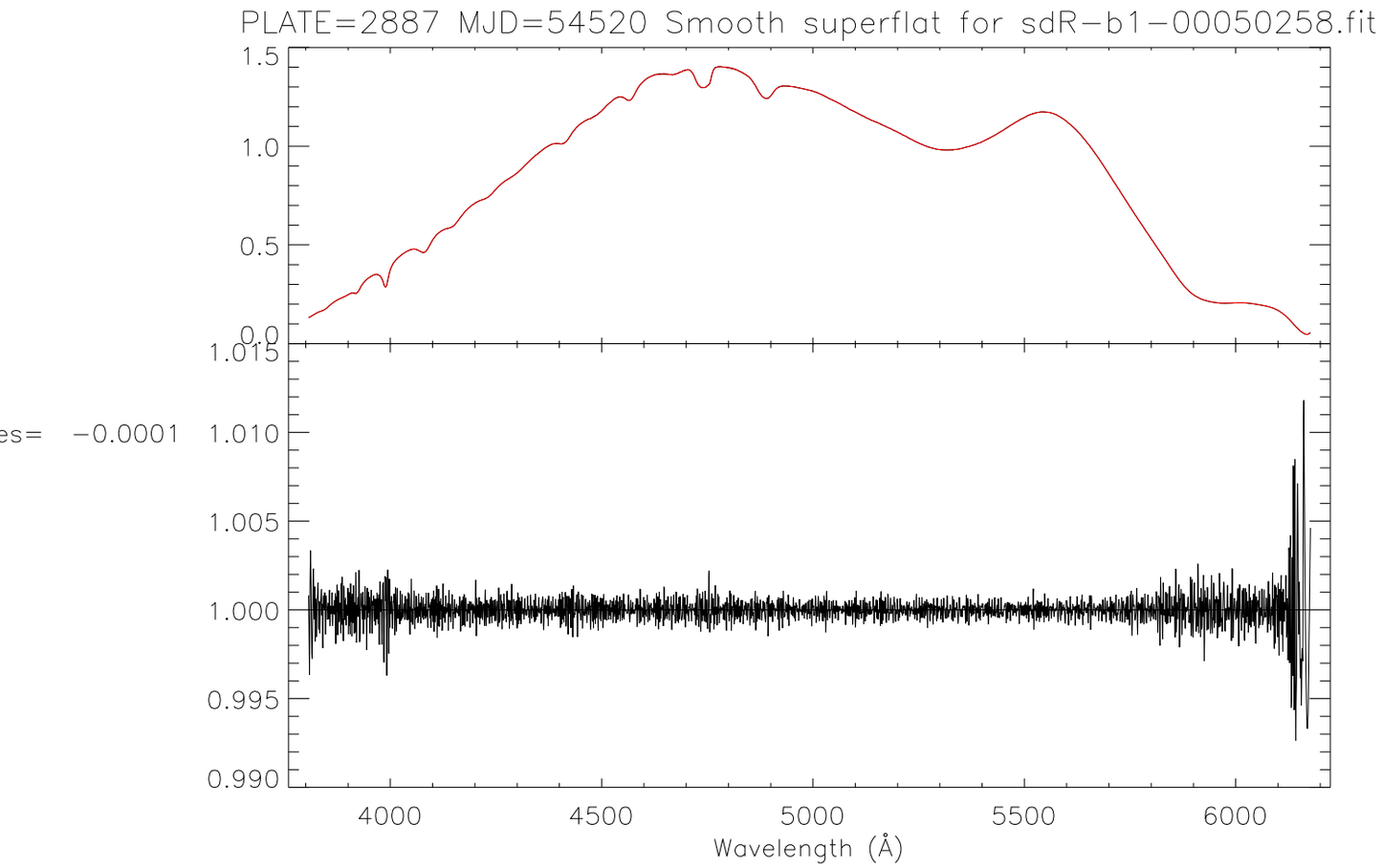

5577.3390
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

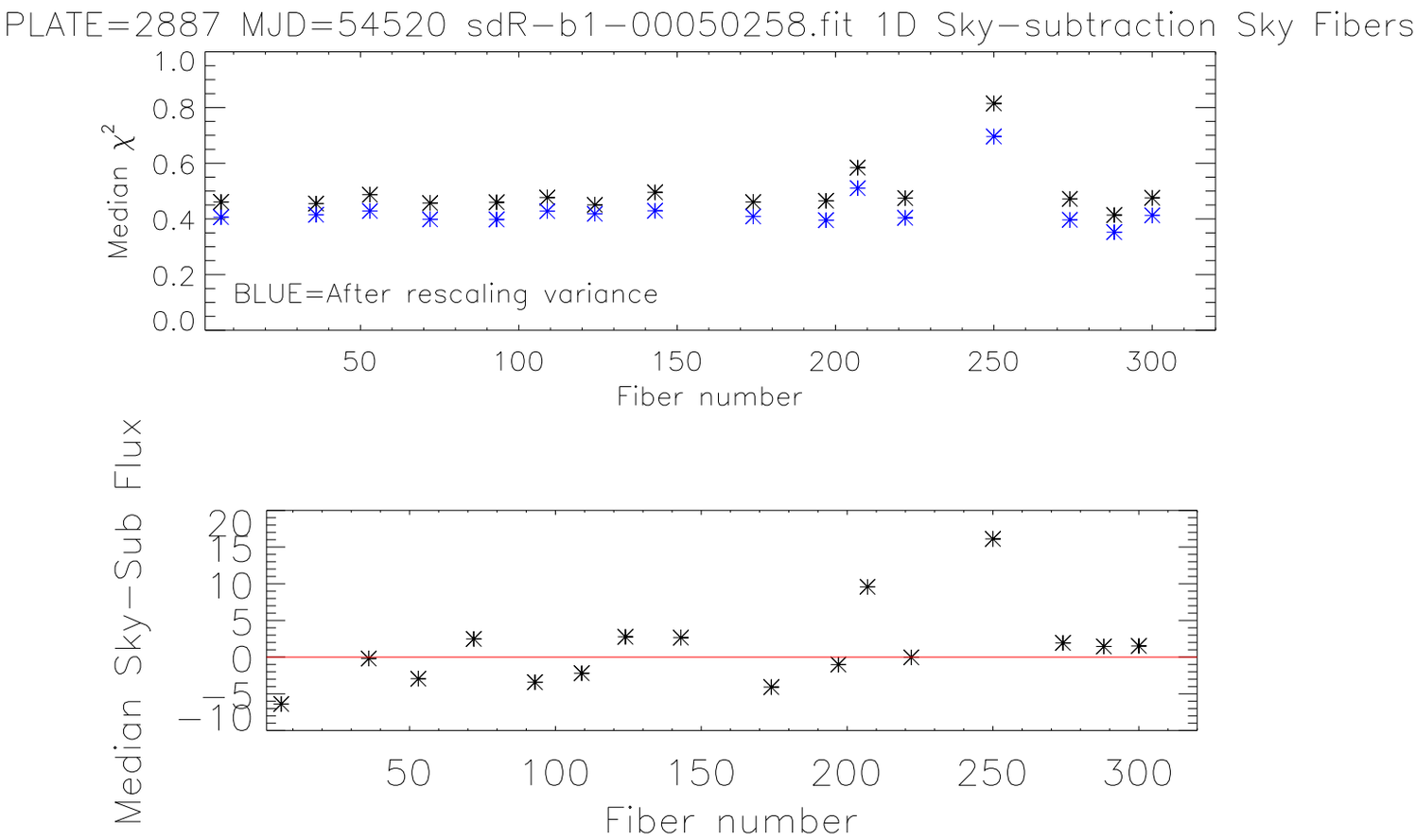

5889.9500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

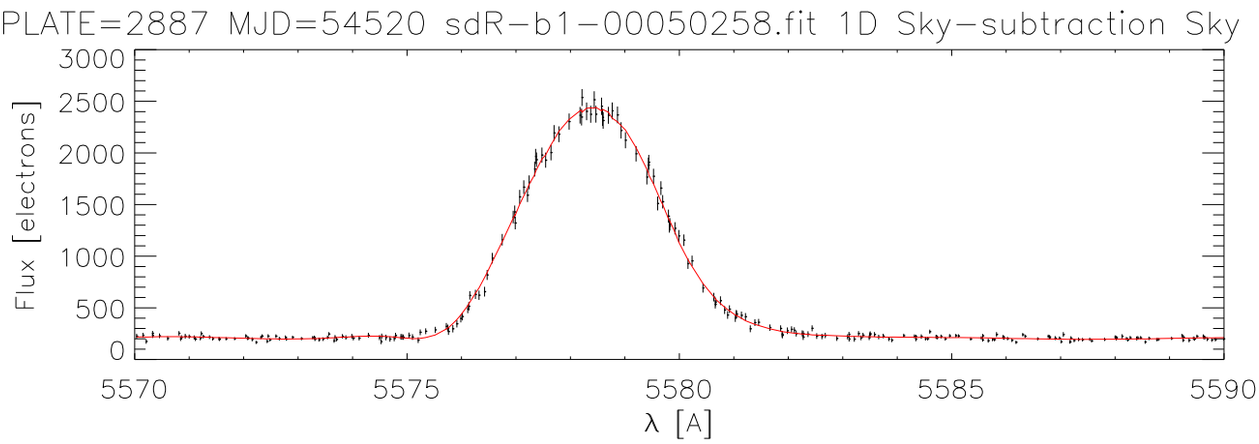

5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

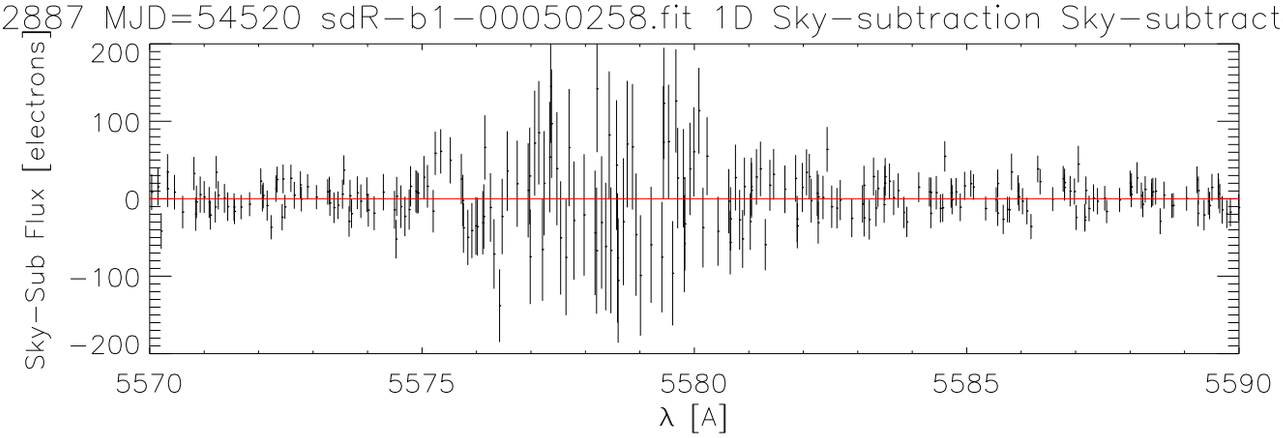

4046.5600
nfib1 16
nfib2 16
stdev 0.077
extra −0.46
4358.3300
nfib1 16
nfib2 16
stdev 0.057
extra −0.45
5460.9400
nfib1 16
nfib2 16
stdev 0.032
extra −0.39
5577.3390
nfib1 16
nfib2 16
stdev 0.024
extra −0.36
5889.9500
nfib1 16
nfib2 16
stdev 0.033
extra −0.25
5895.9240
nfib1 16
nfib2 16
stdev 0.048
extra −0.25
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

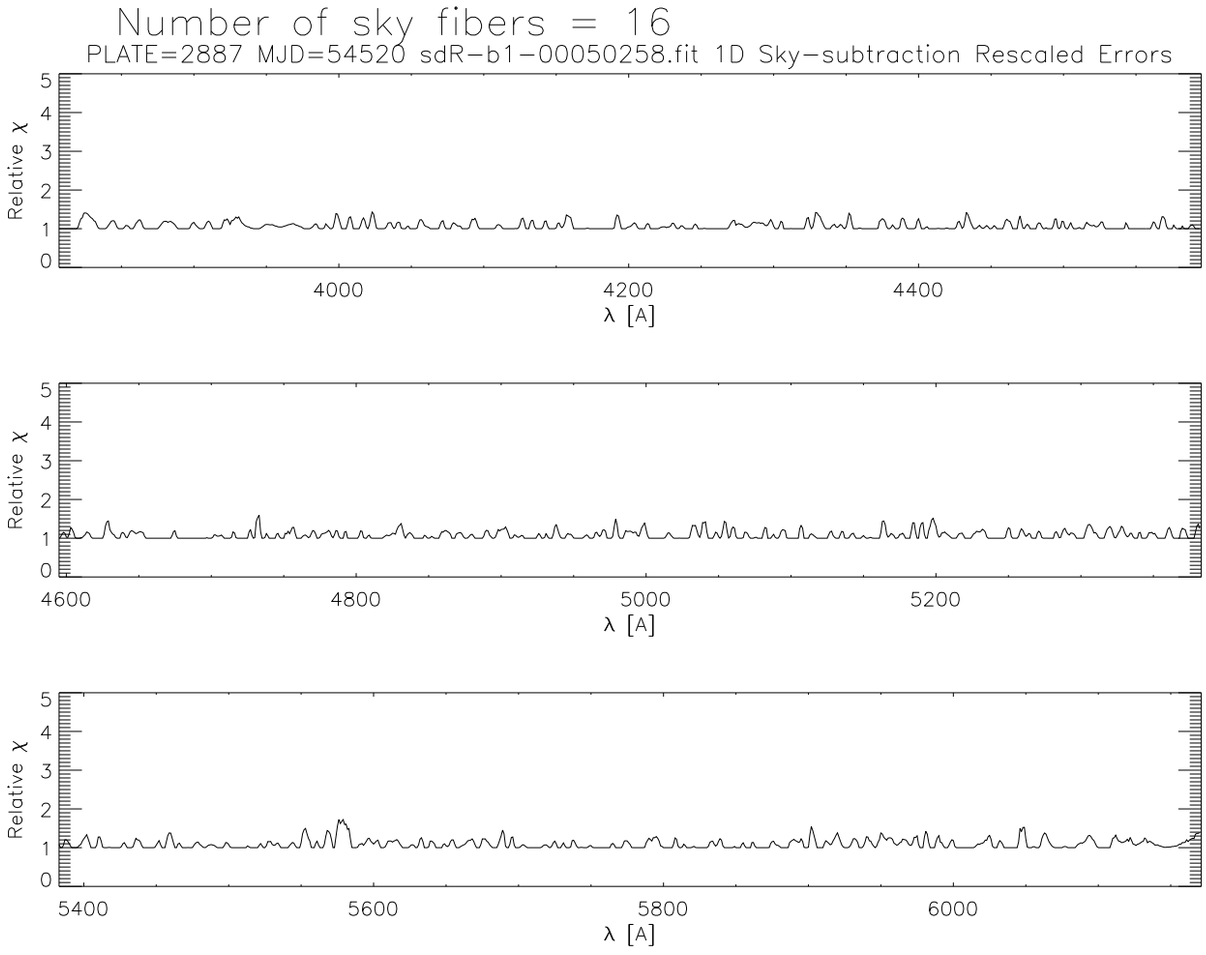

sky shift, pixels
−0.25
−0.30
−0.35
−0.40
−0.45
−0.50
3500
4000
4500
5000
5500
6000
6500

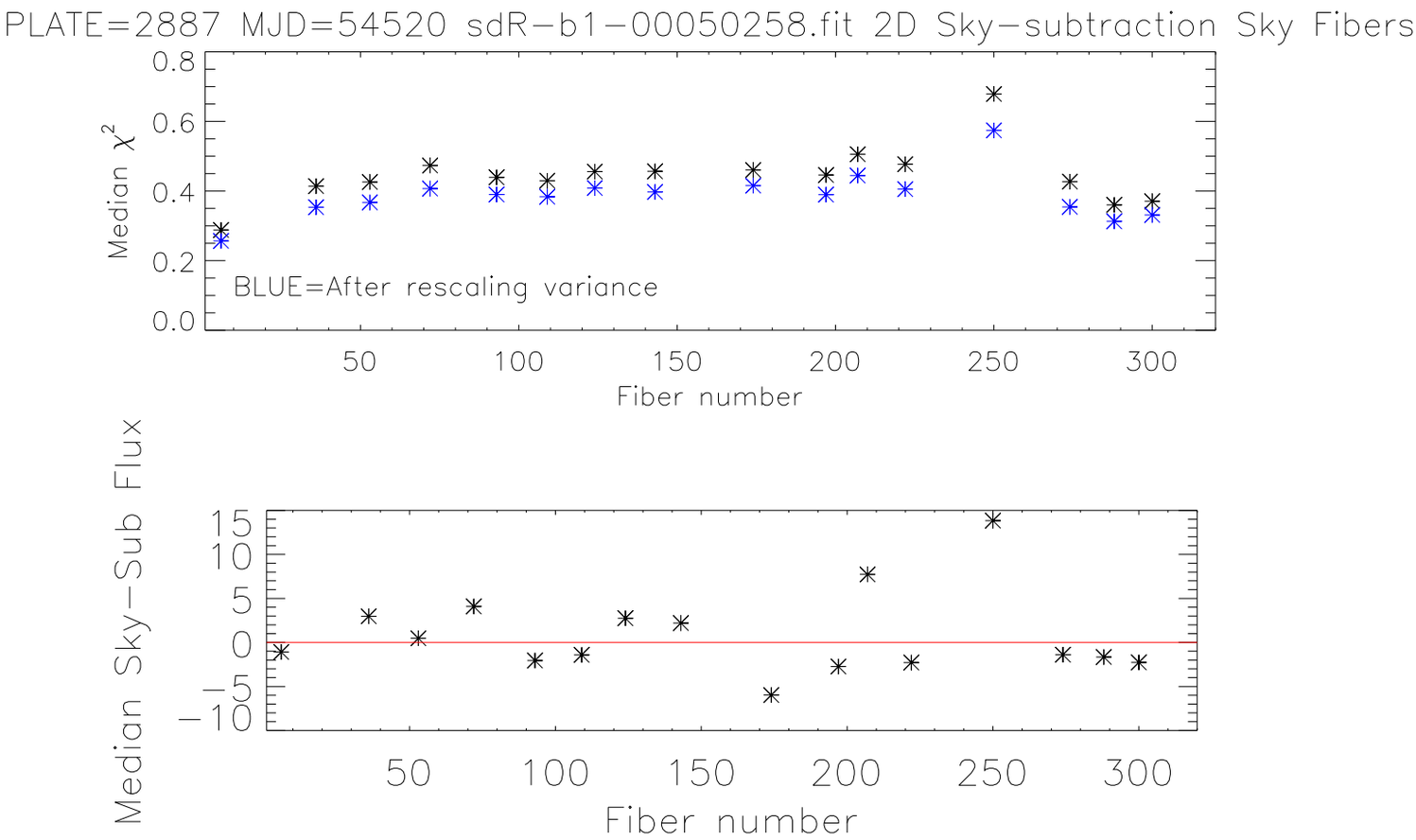

PLATE=2887 MJD=54520 Smooth superflat for sdR-b1-00050258.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
es= -0.0001
4000
4500
5000
5500
6000
Wavelength (Å)

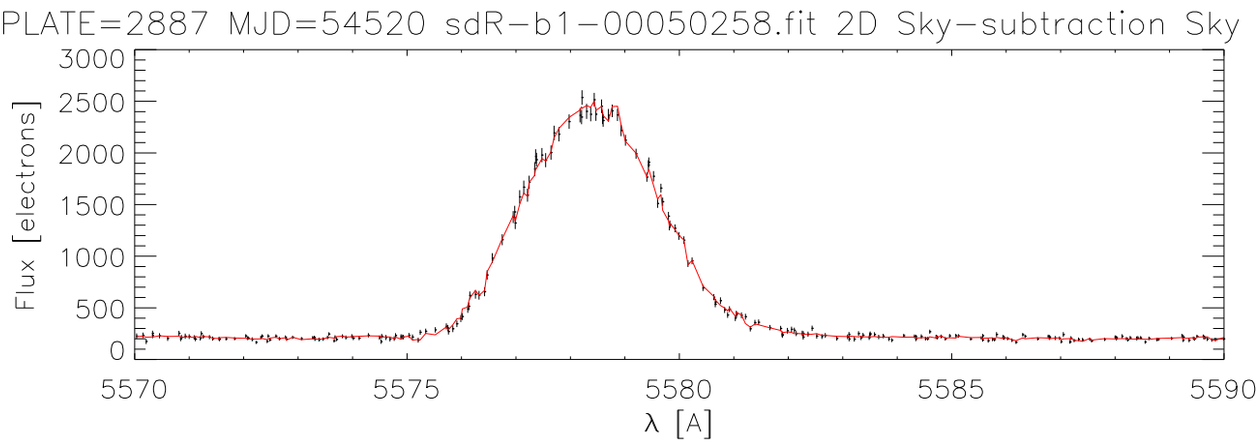

PLATE=2887 MJD=54520 sdR-b1-00050258.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

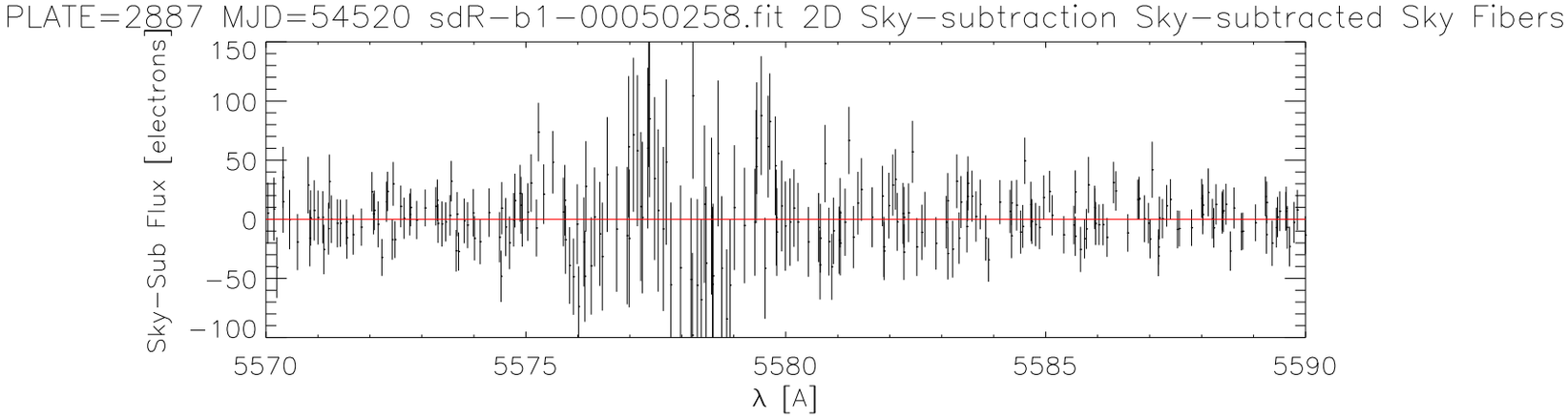

PLATE=2887 MJD=54520 sdR-b1-00050258.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

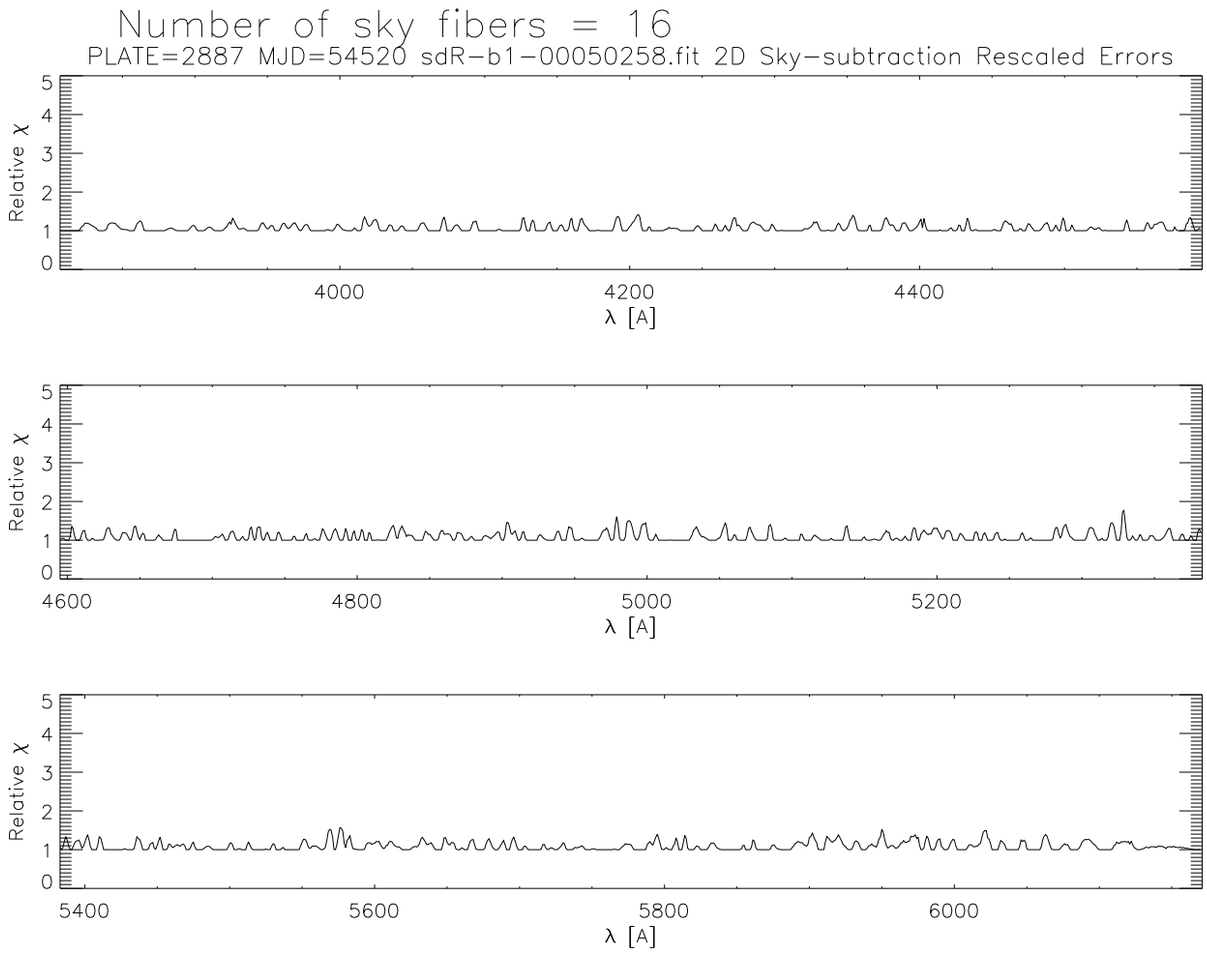

PLATE=2887 MJD=54520 sdR-b1-00050258.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

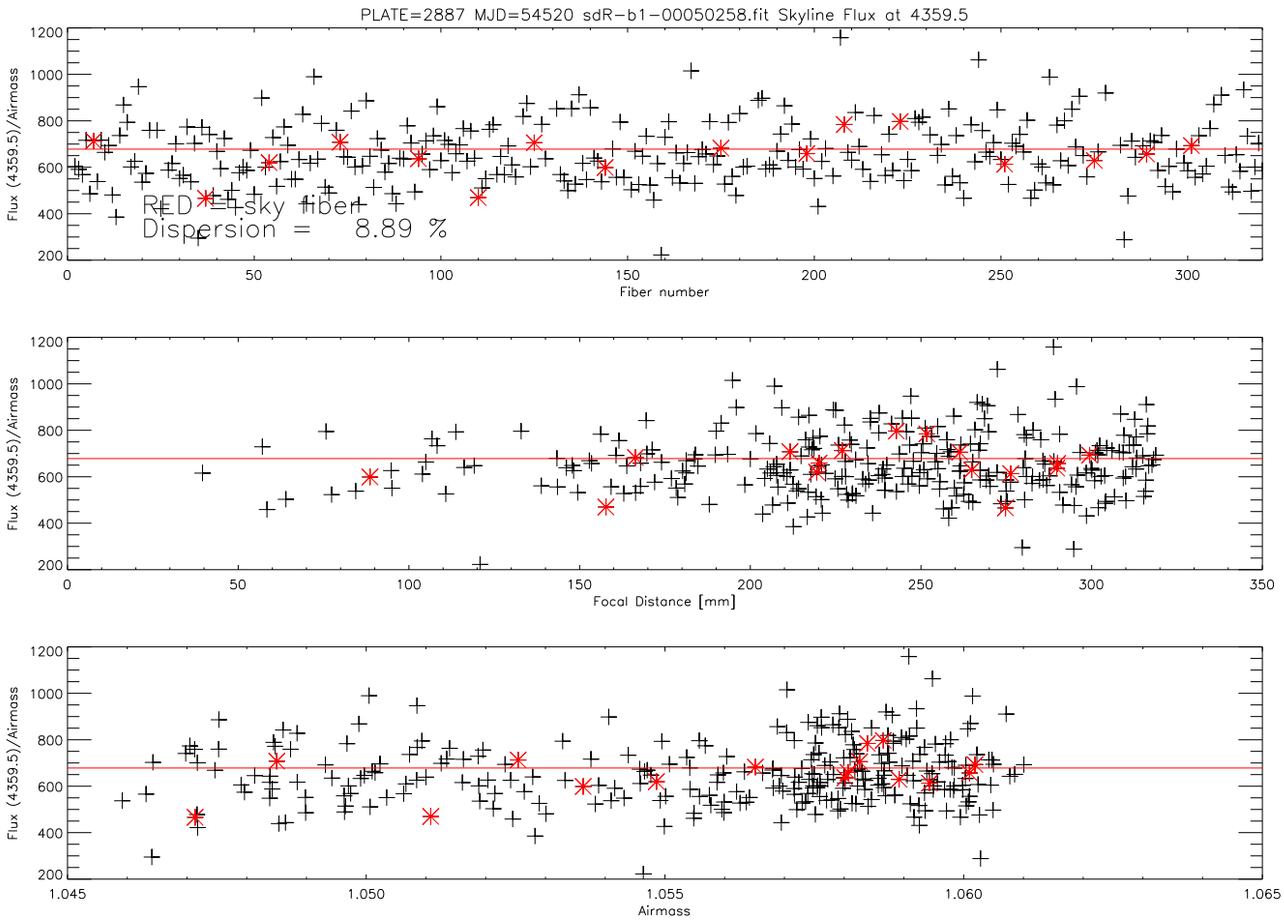

Number of sky fibers = 16
PLATE=2887 MJD=54520 sdR-b1-00050258.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

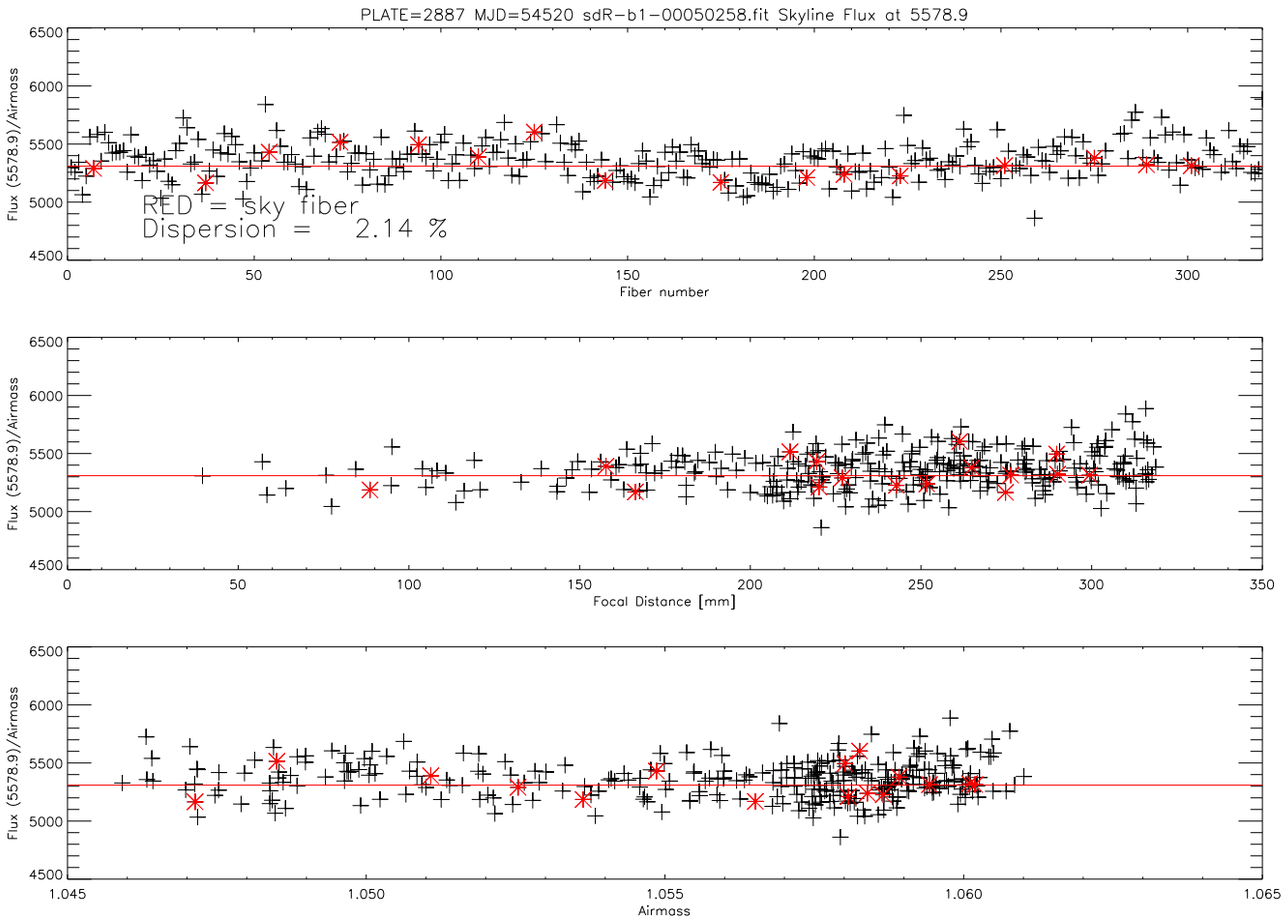

PLATE=2887 MJD=54520 sdR-b1-00050258.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

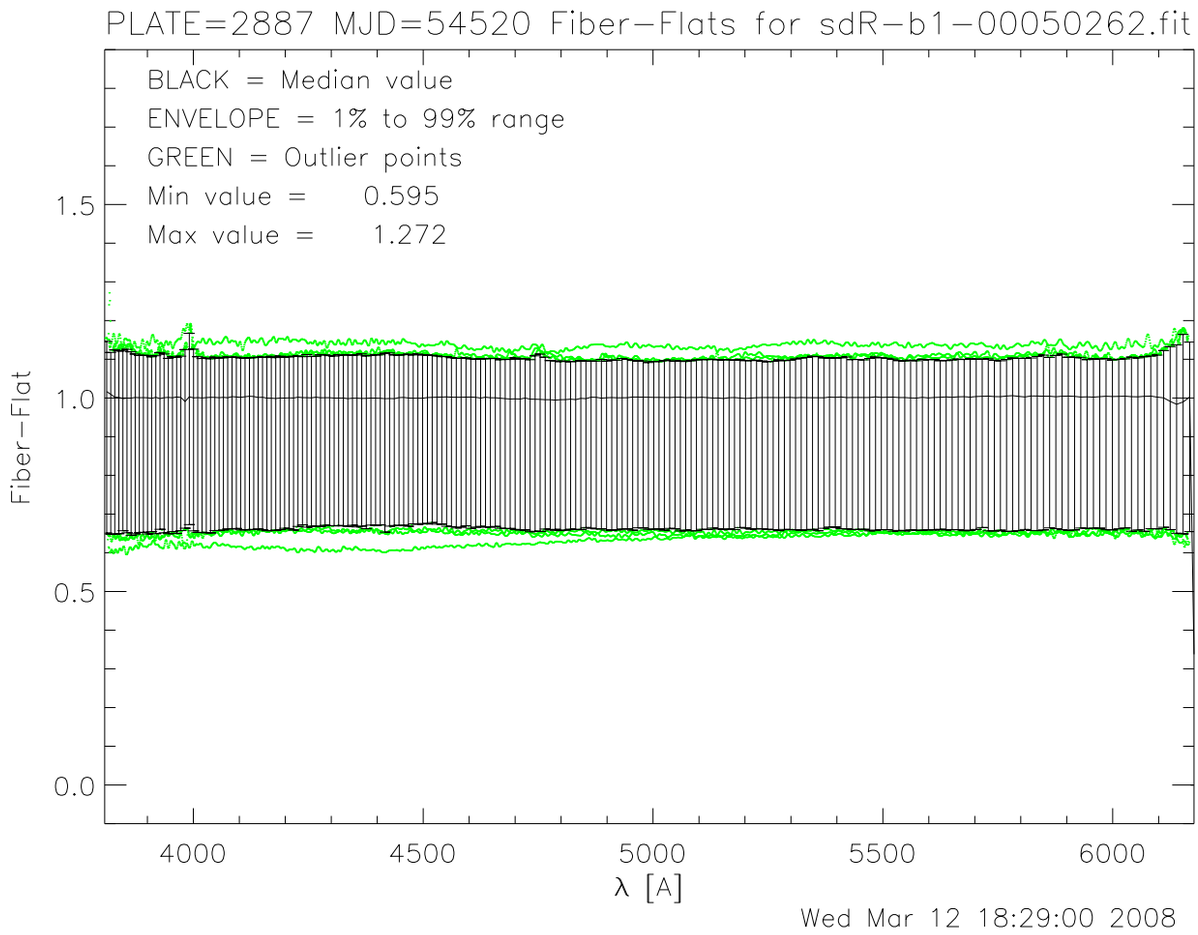

PLATE=2887 MJD=54520 sdR-b1-00050258.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

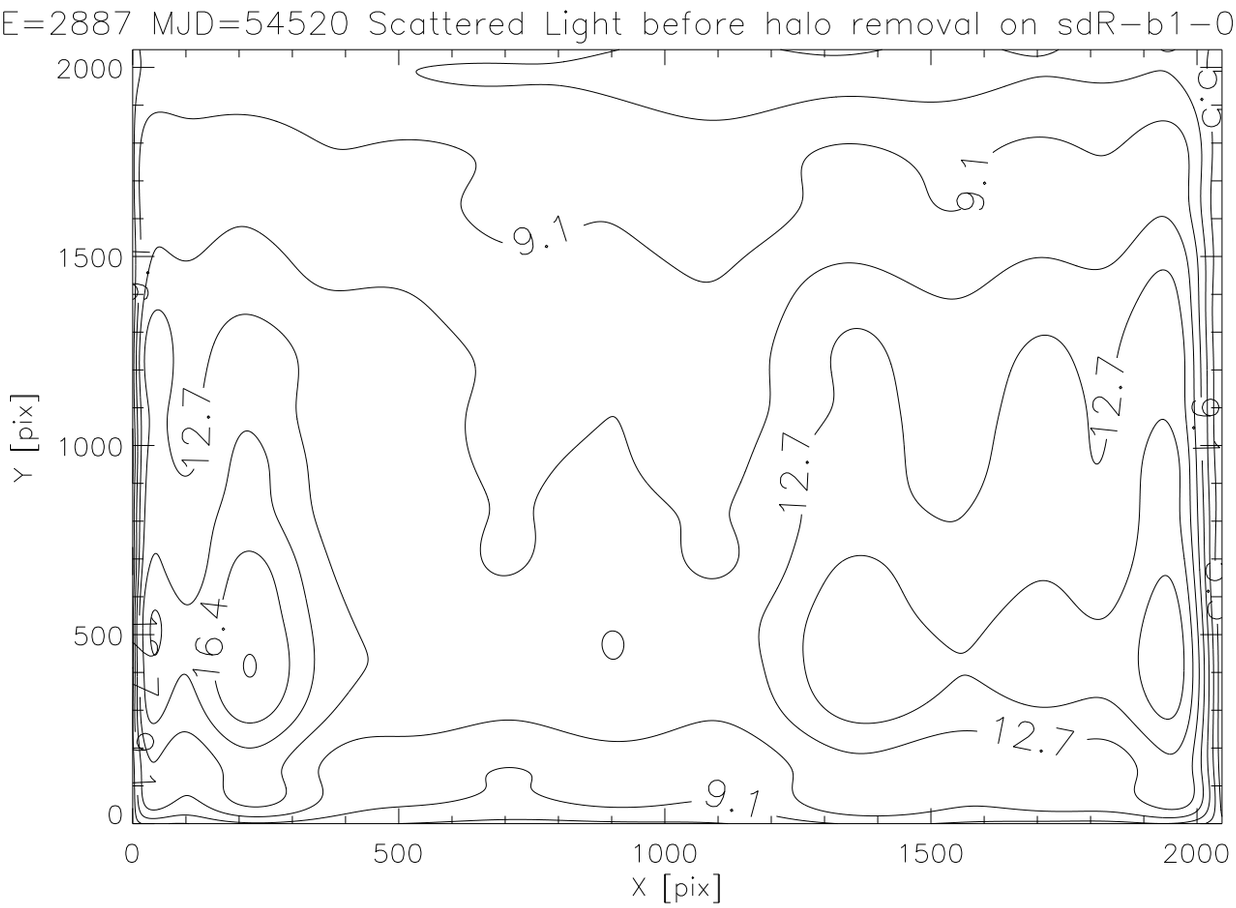

PLATE=2887 MJD=54520 sdR-b1-00050258.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
5570
5575
5580
5585
5590
λ [A]

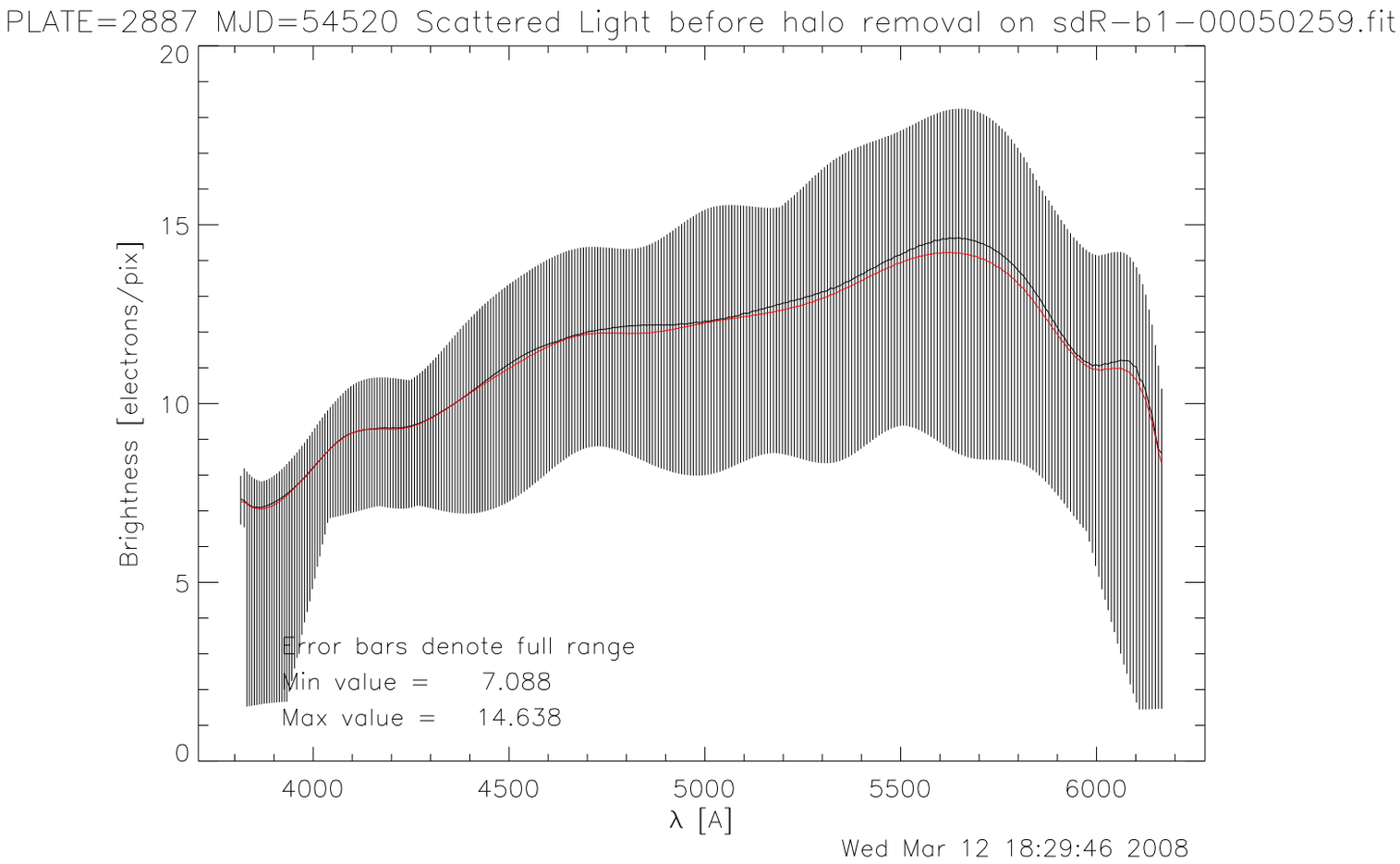

Number of sky fibers = 16
PLATE=2887 MJD=54520 sdR-b1-00050258.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

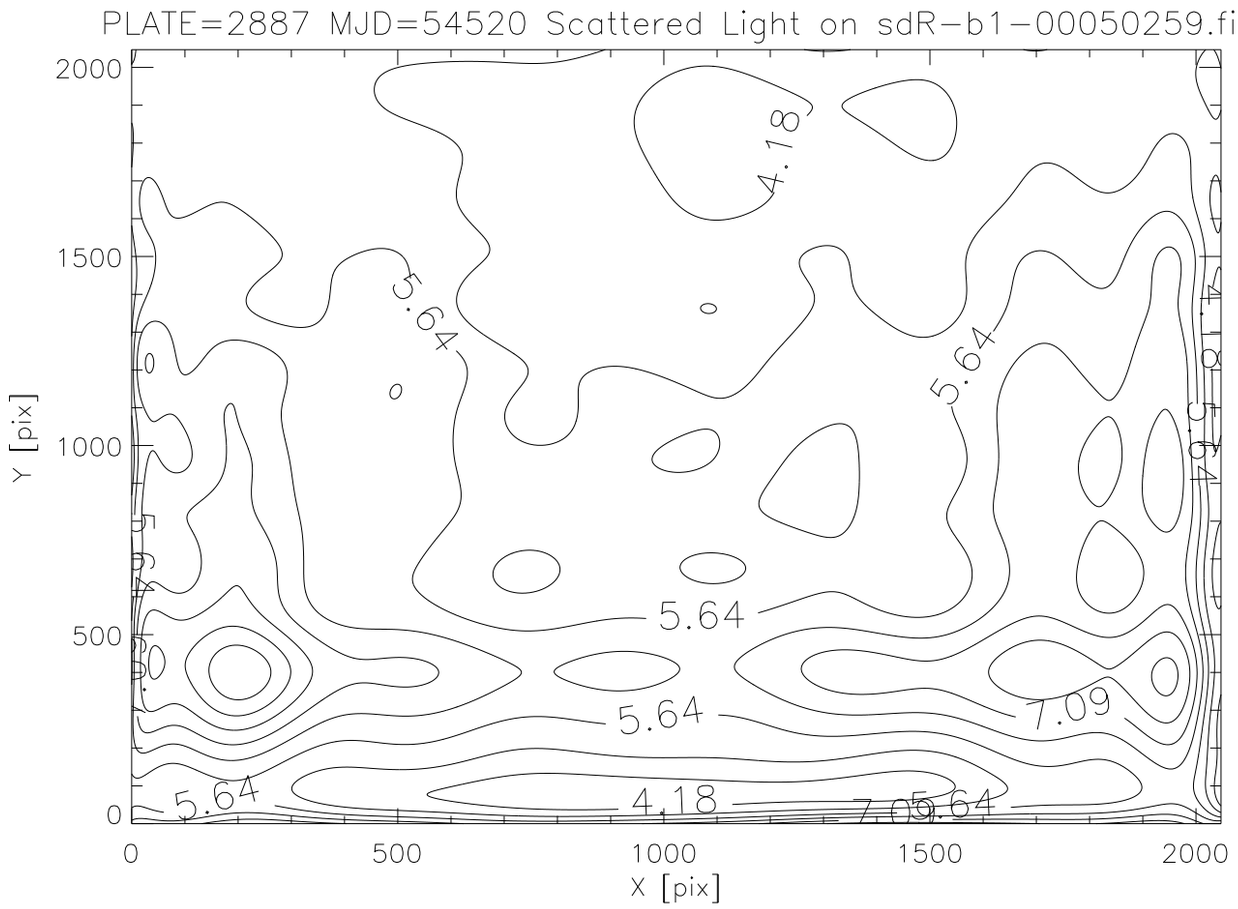

PLATE=2887 MJD=54520 sdR-b1-00050258.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 8.89 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

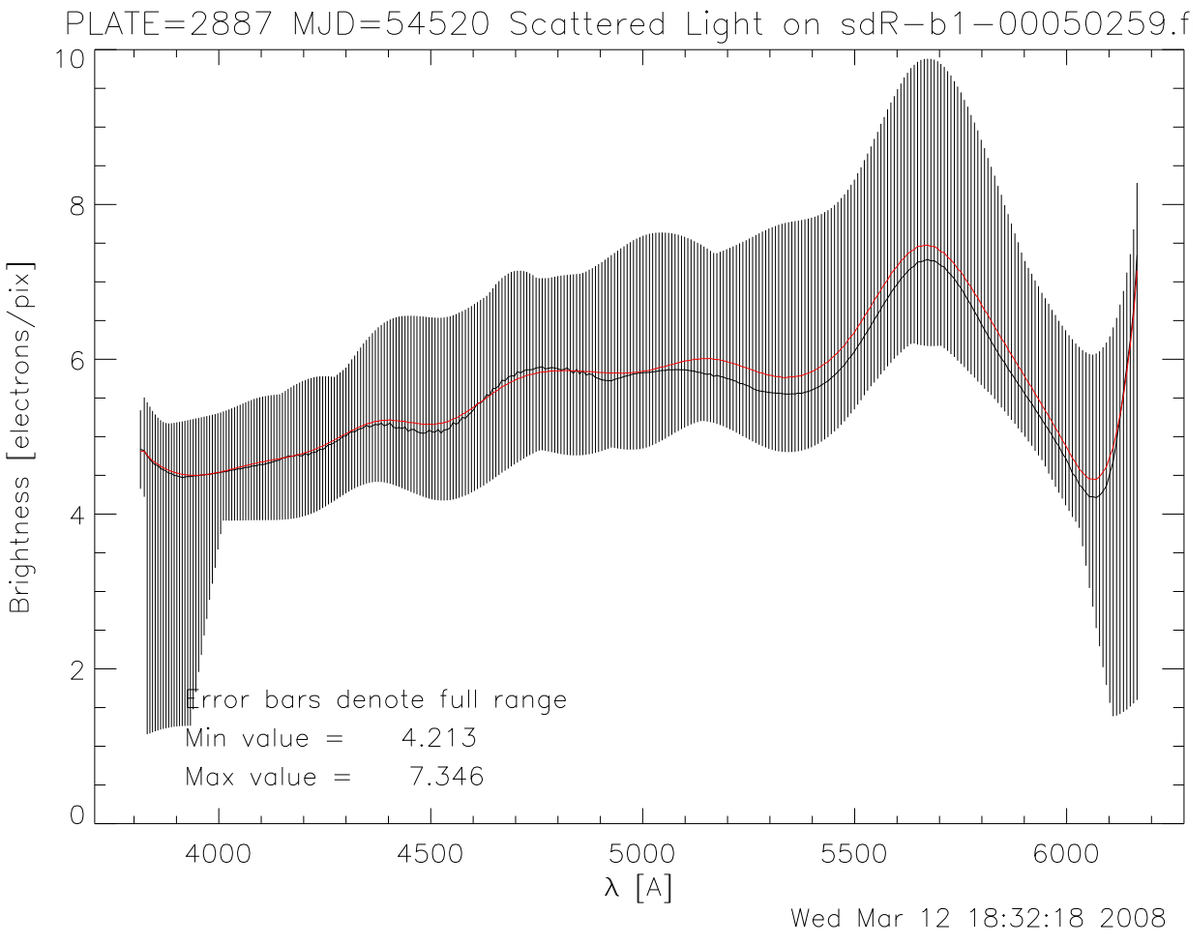

PLATE=2887 MJD=54520 sdR-b1-00050258.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.14 %
Fiber number
Focal Distance [mm]
Airmass

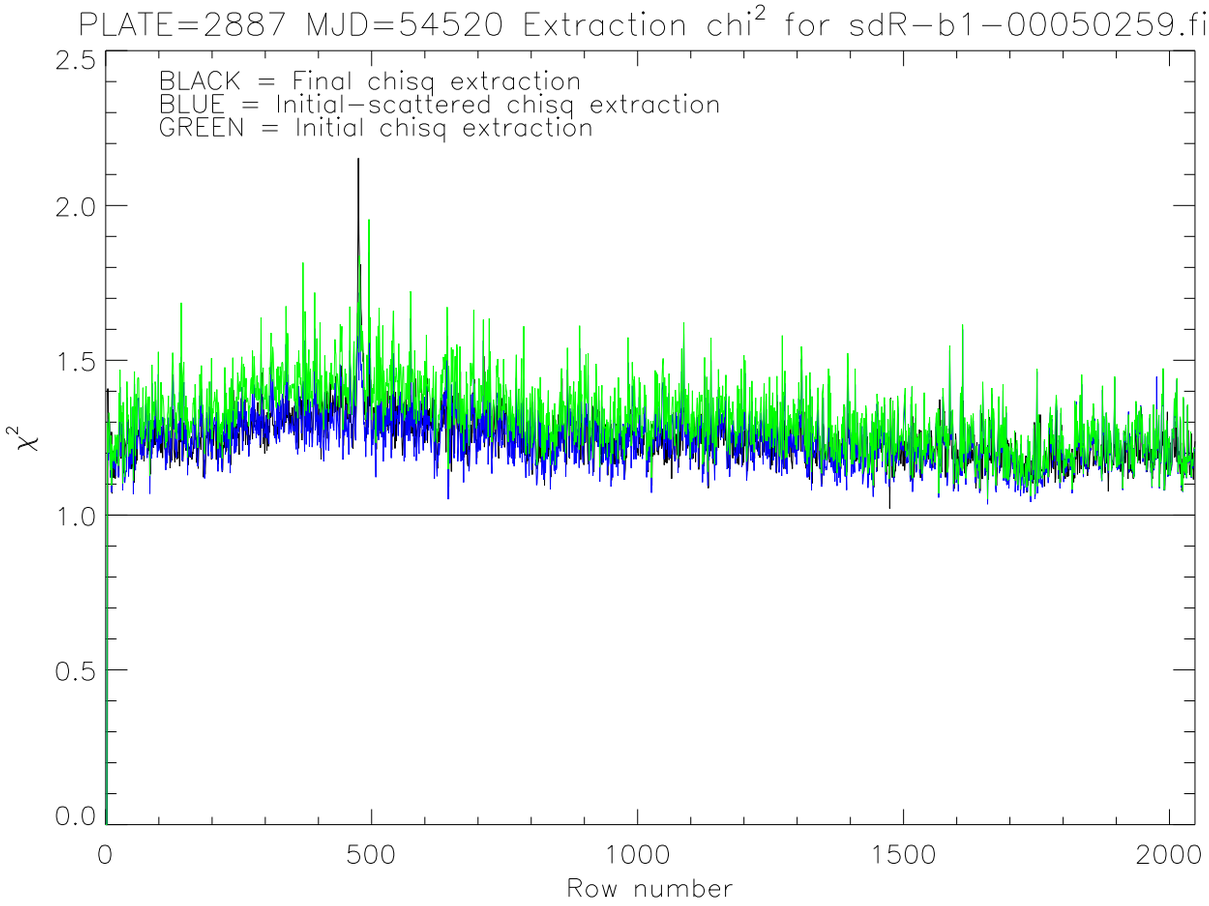

PLATE=2887 MJD=54520 Fiber-Flats for sdR-b1-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.595
Max value = 1.272
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:29:00 2008

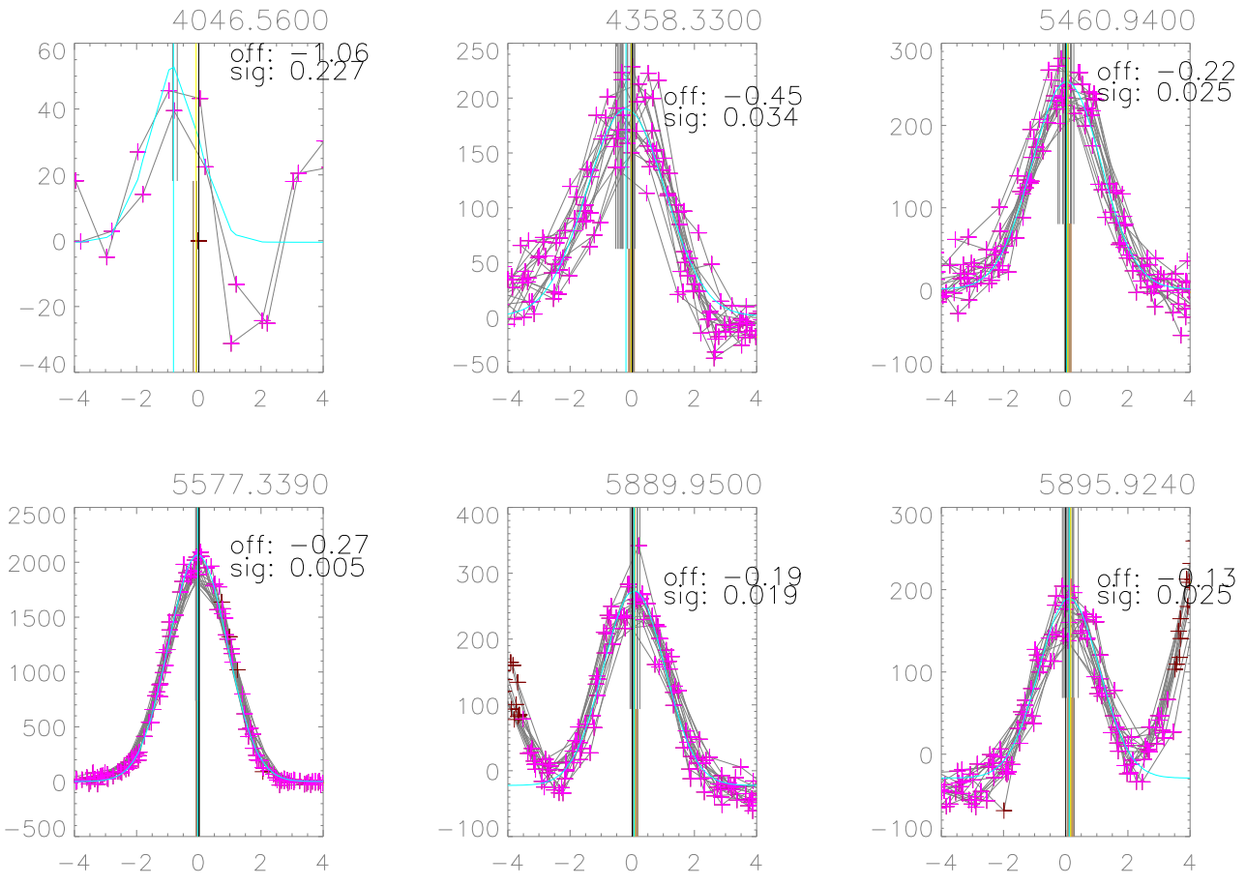

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b1-00050259.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
12.7
16.4
0

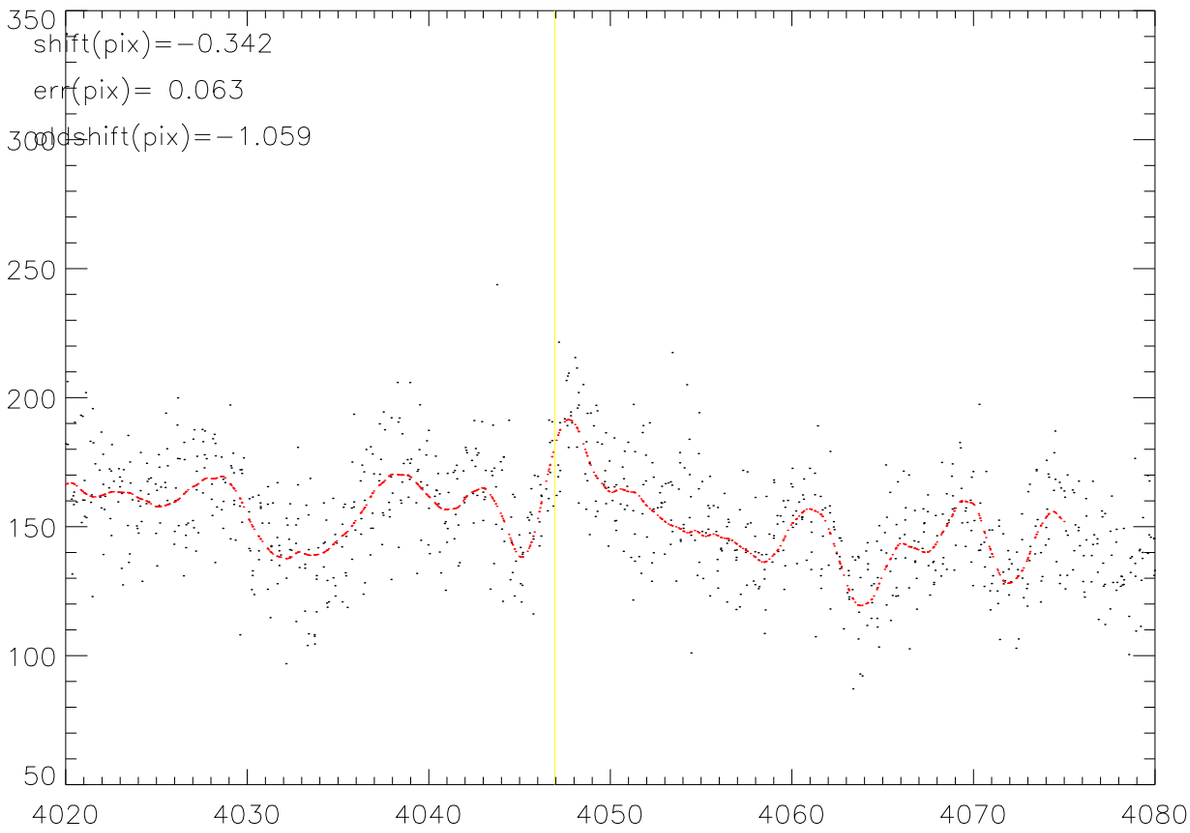

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b1-00050259.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.088
Max value = 14.638
Wed Mar 12 18:29:46 2008

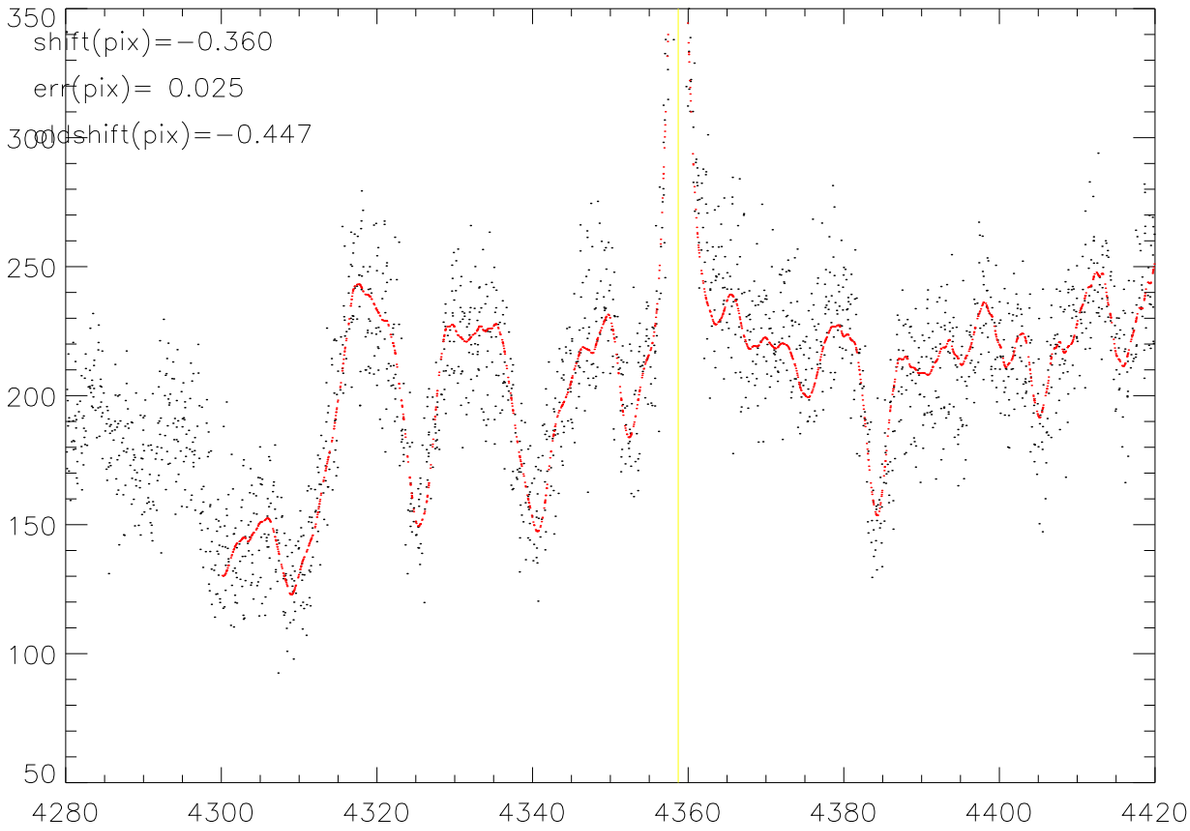

PLATE=2887 MJD=54520 Scattered Light on sdR-b1-00050259.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.18
5.64
7.09

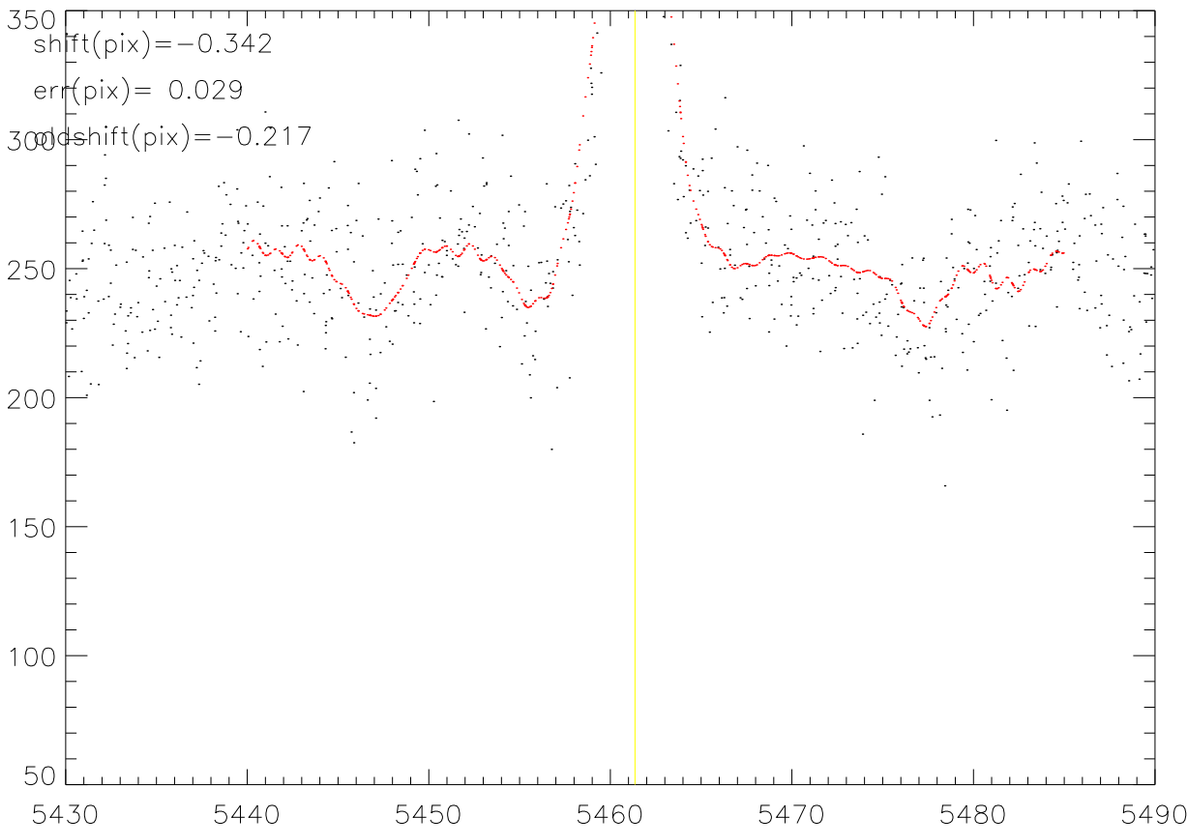

PLATE=2887 MJD=54520 Scattered Light on sdR-b1-00050259.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.213
Max value = 7.346
Wed Mar 12 18:32:18 2008

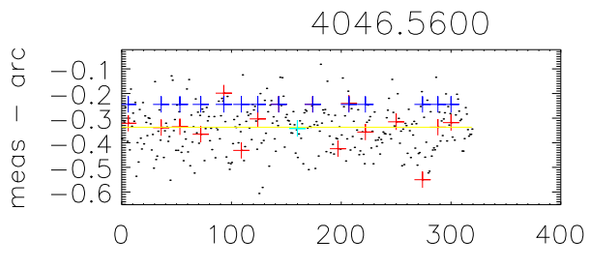

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-b1-00050259.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

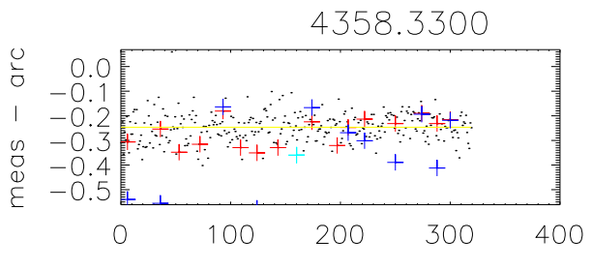

4046.5600
off: −1.06
sig: 0.227
4358.3300
off: −0.45
sig: 0.034
5460.9400
off: −0.22
sig: 0.025
5577.3390
off: −0.27
sig: 0.005
5889.9500
off: −0.19
sig: 0.019
5895.9240
off: −0.13
sig: 0.025

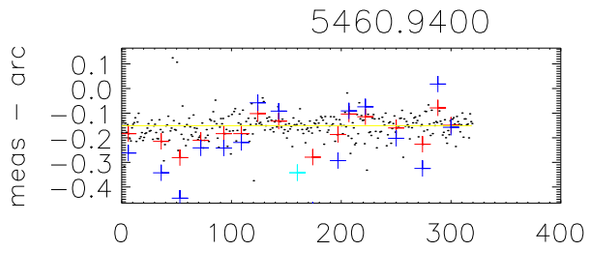

shift(pix)=−0.342
err(pix)= 0.063
oldshift(pix)=−1.059
350
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

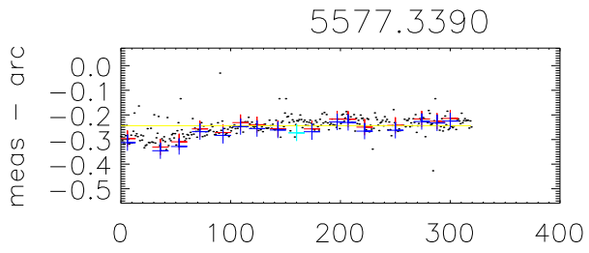

shift(pix)=−0.360
err(pix)= 0.025
oldshift(pix)=−0.447
350
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

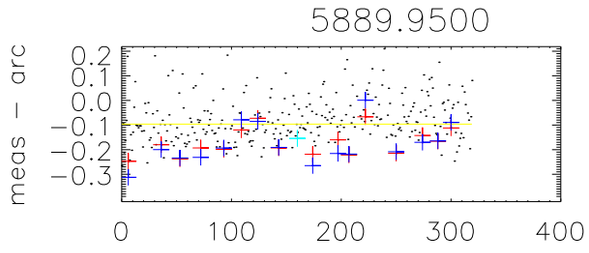

shift(pix)=−0.342
err(pix)= 0.029
oldshift(pix)=−0.217
350
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

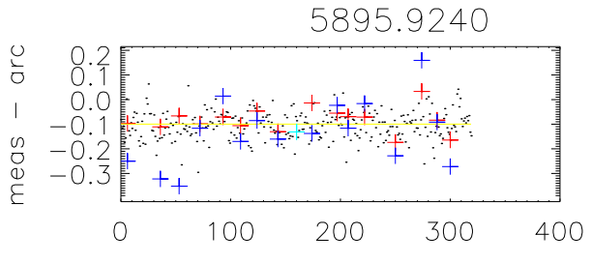

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

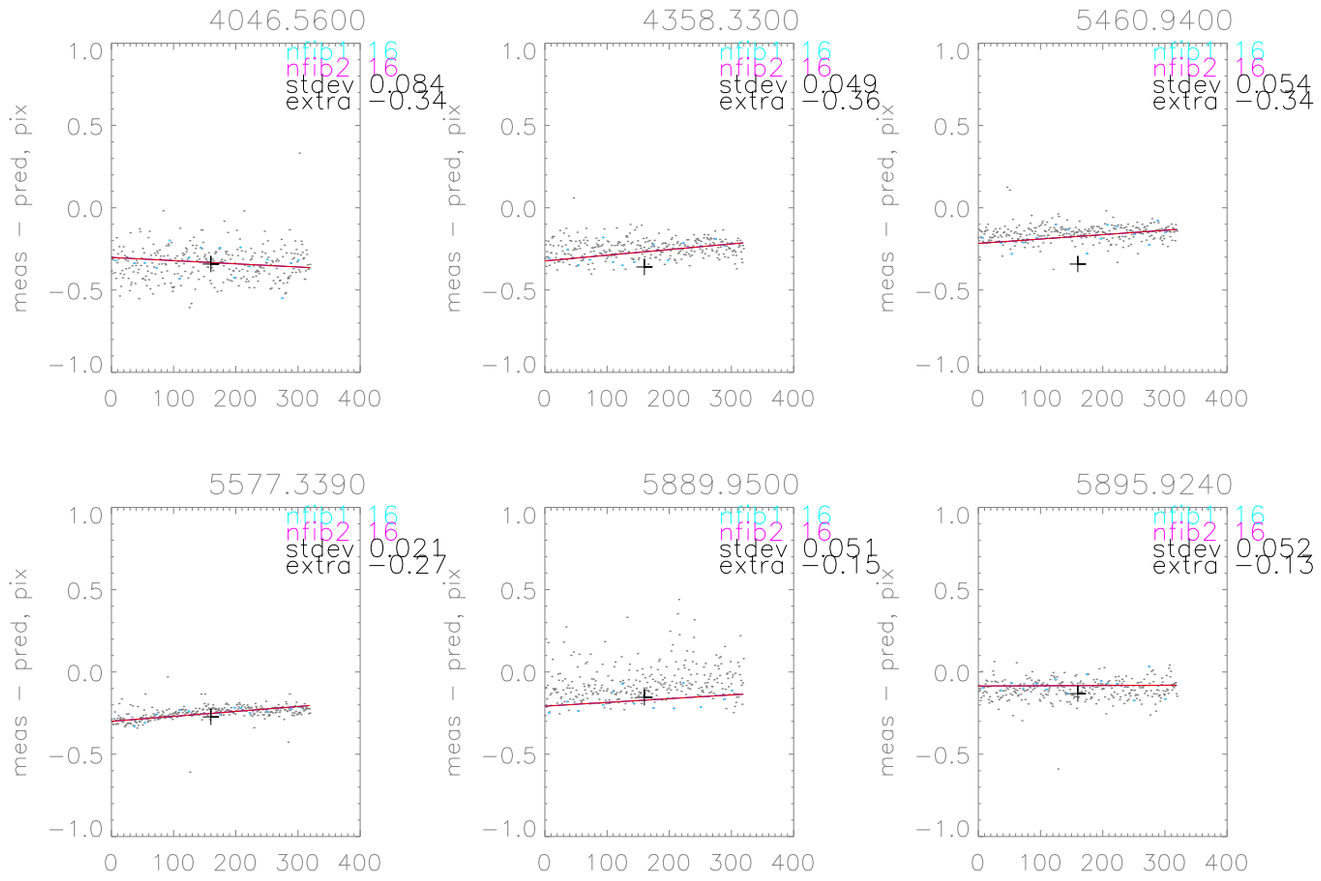

4358.3300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

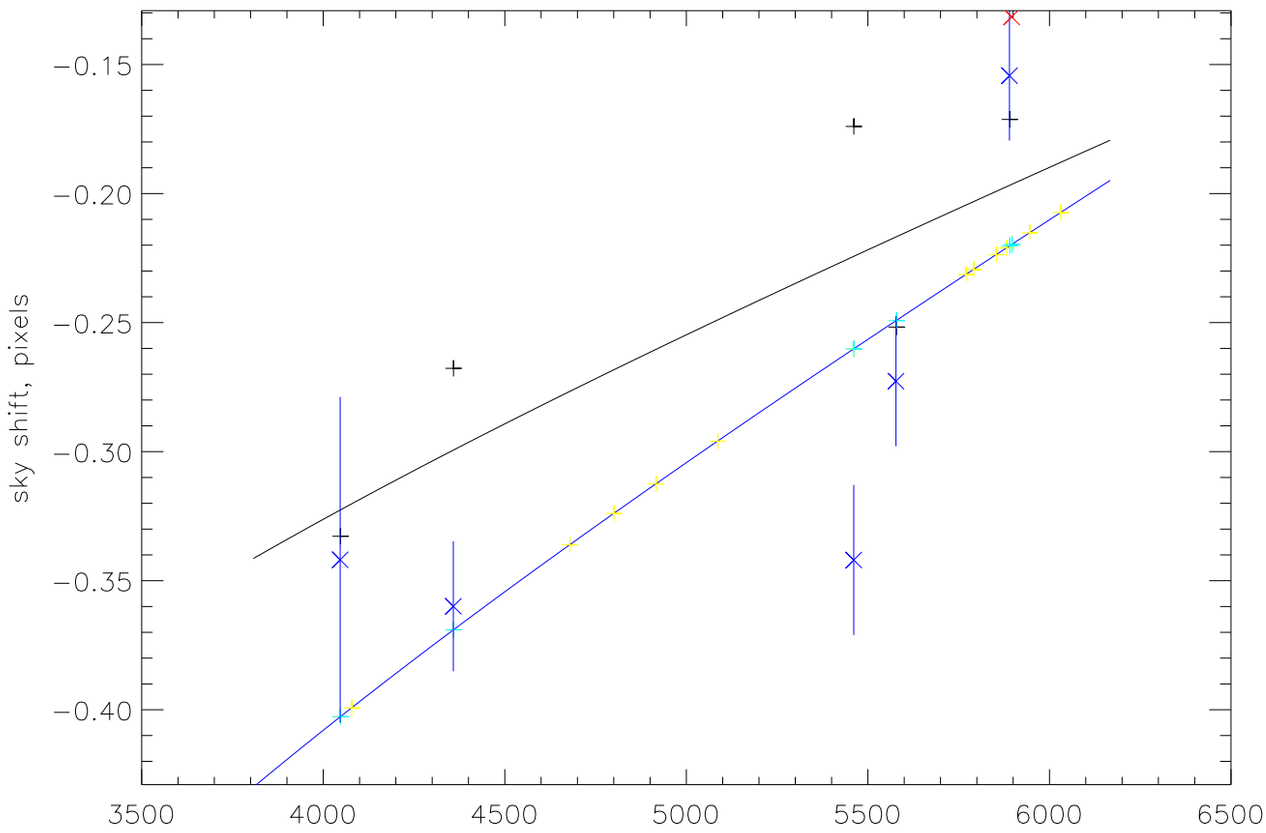

5460.9400
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

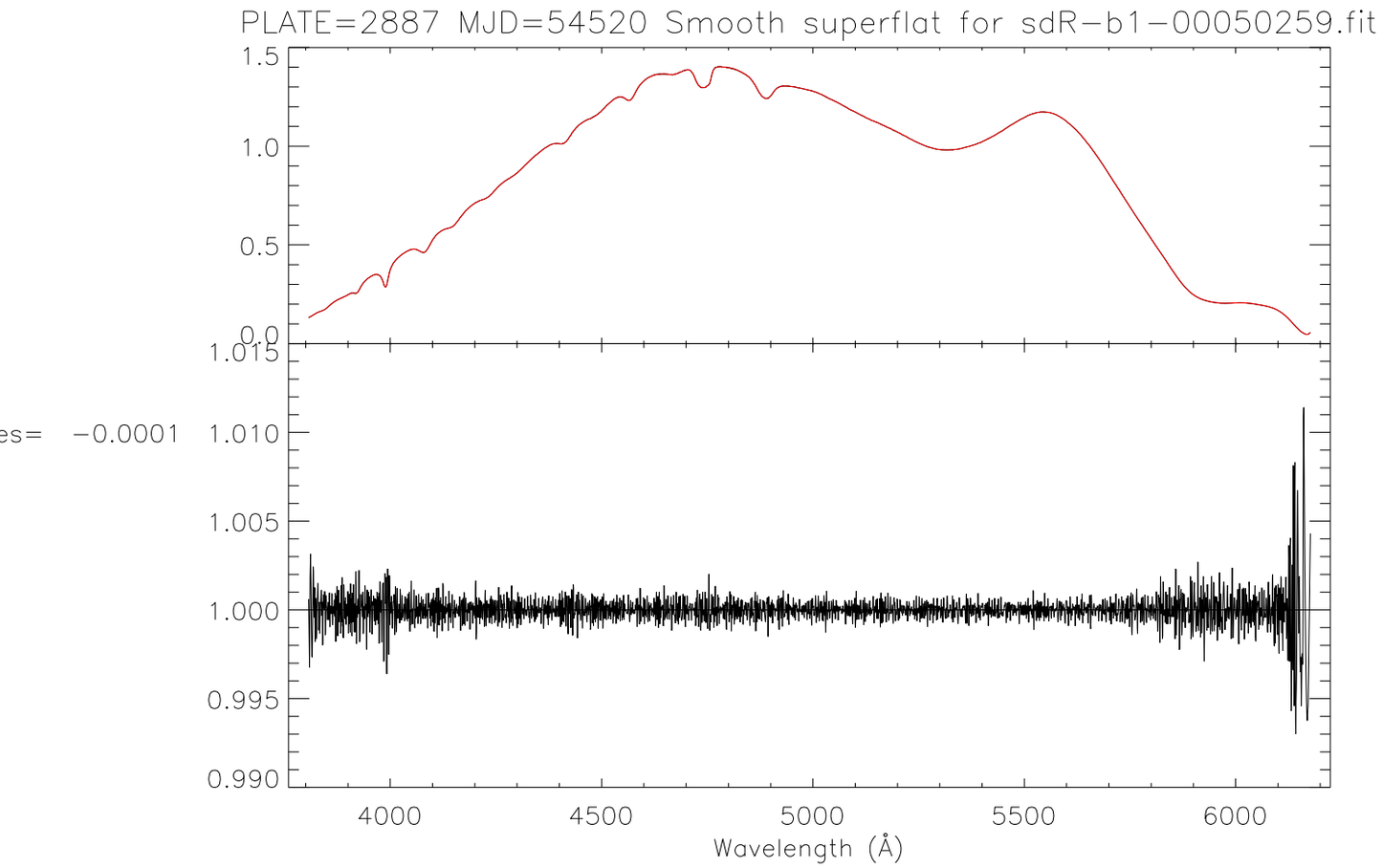

5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400


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

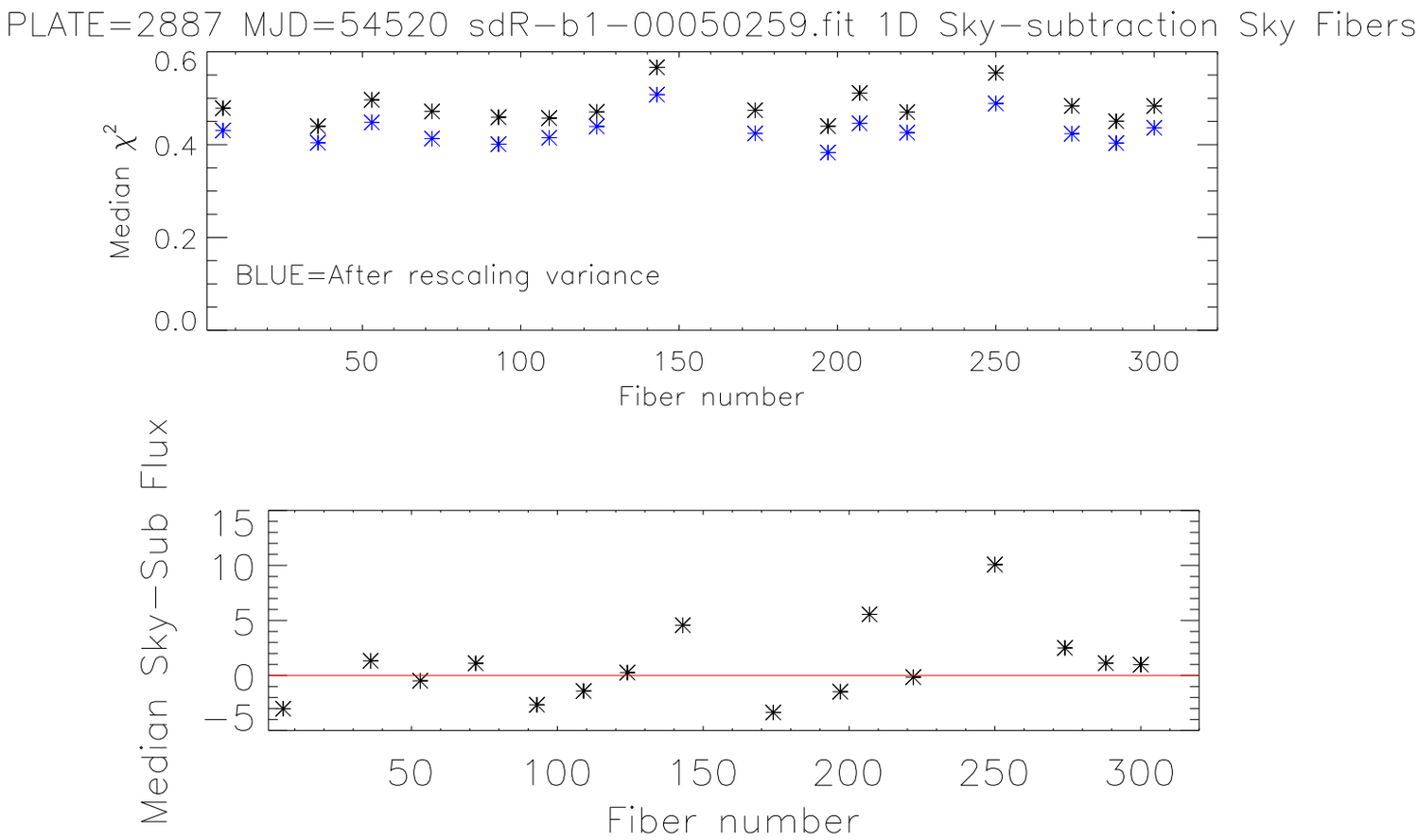

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

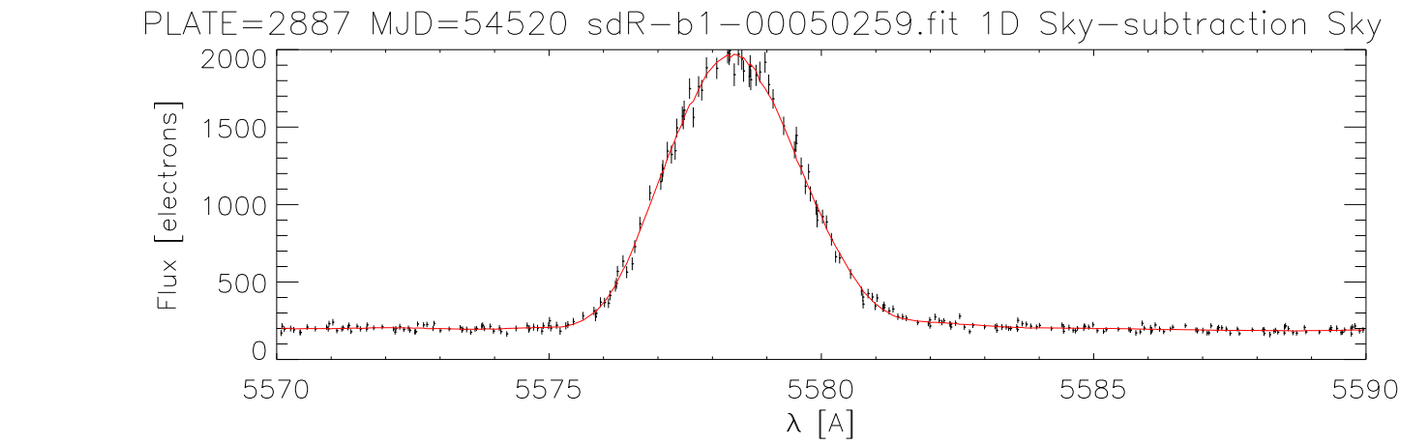

4046.5600
nfib1 16
nfib2 16
stdev 0.084
extra −0.34
4358.3300
nfib1 16
nfib2 16
stdev 0.049
extra −0.36
5460.9400
nfib1 16
nfib2 16
stdev 0.054
extra −0.34
5577.3390
nfib1 16
nfib2 16
stdev 0.021
extra −0.27
5889.9500
nfib1 16
nfib2 16
stdev 0.051
extra −0.15
5895.9240
nfib1 16
nfib2 16
stdev 0.052
extra −0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

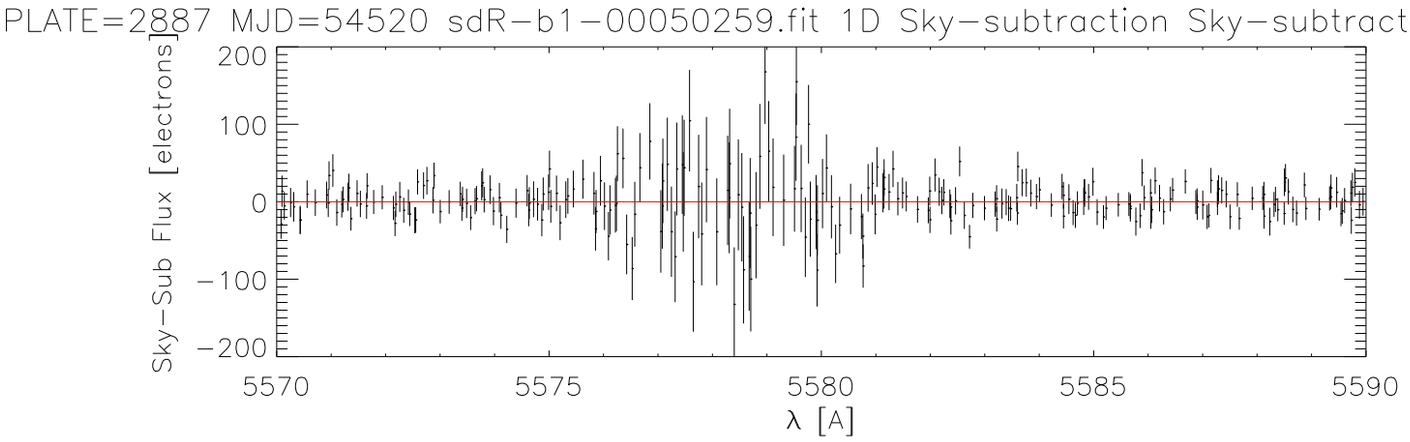

sky shift, pixels
−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
3500
4000
4500
5000
5500
6000
6500

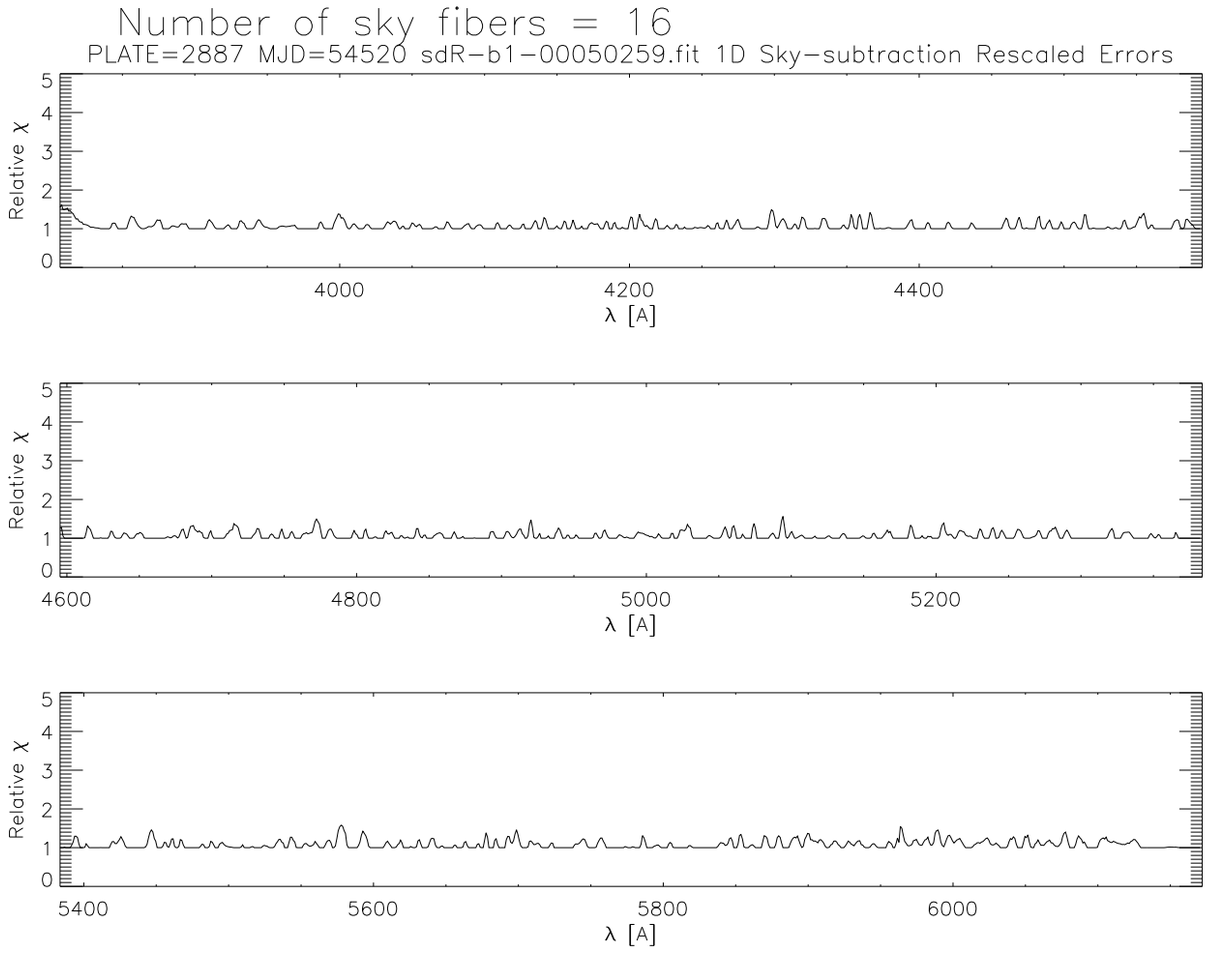

PLATE=2887 MJD=54520 Smooth superflat for sdR-b1-00050259.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

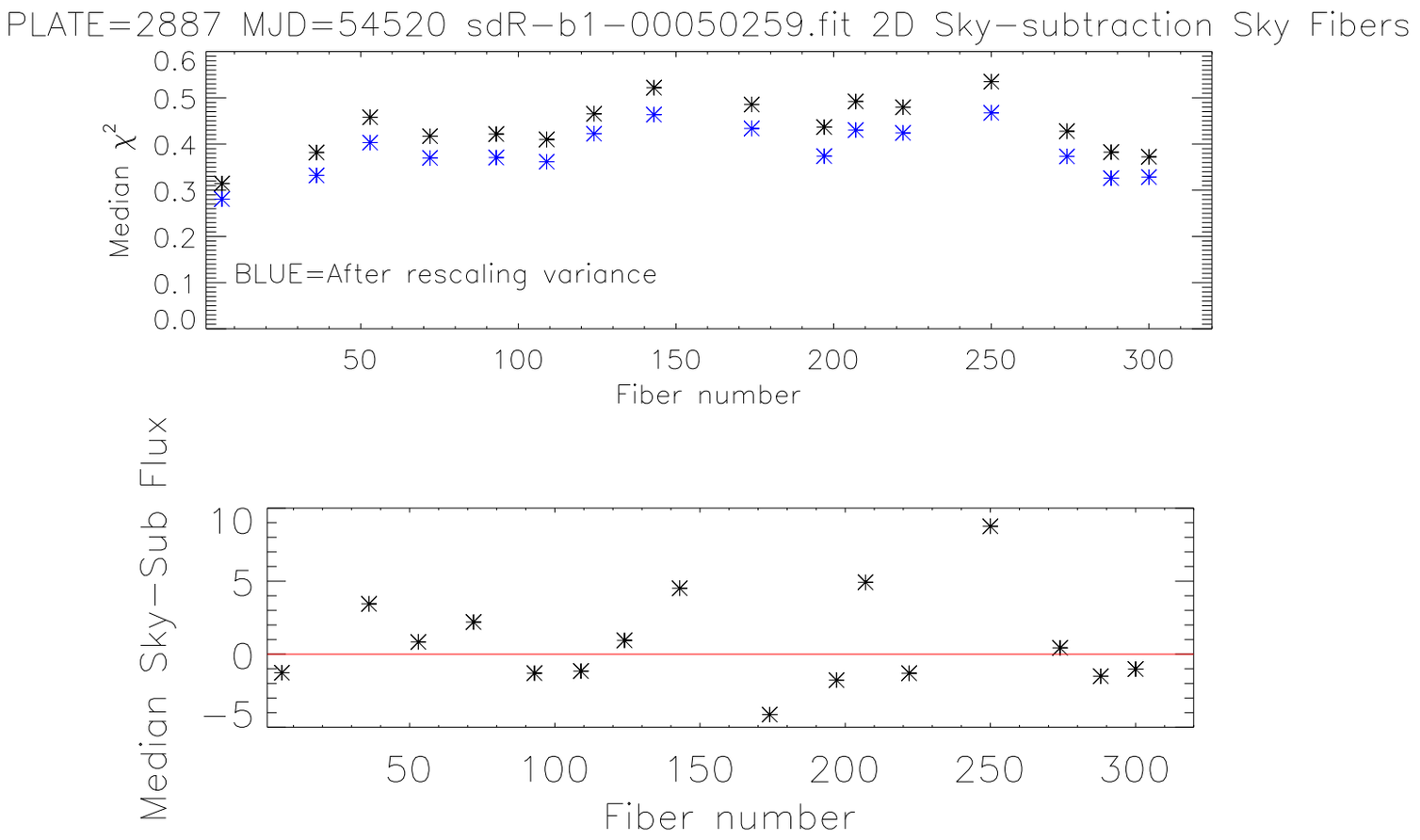
es= −0.0001

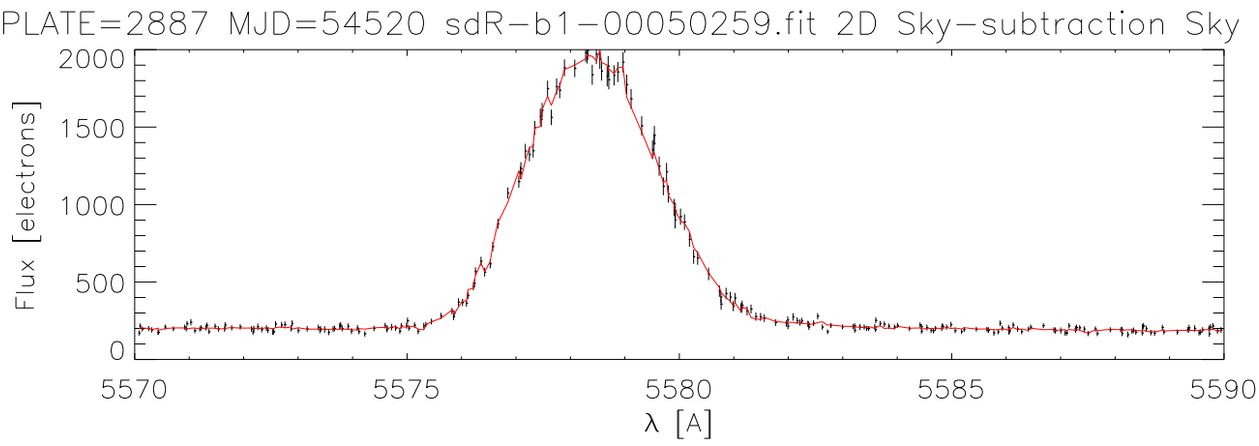

PLATE=2887 MJD=54520 sdR-b1-00050259.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
50
100
150
200
250
300
Fiber number

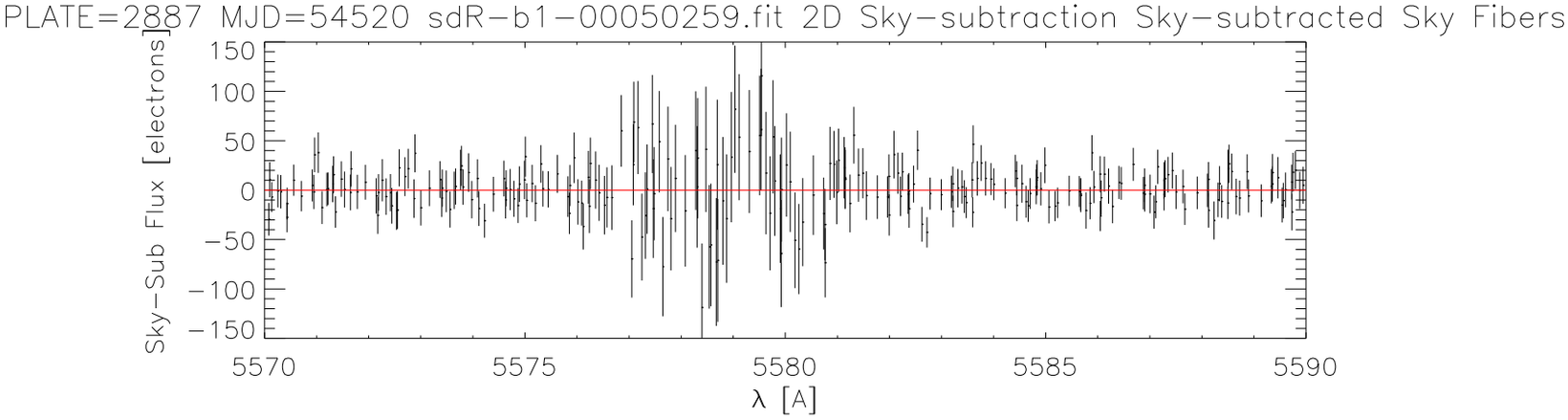

PLATE=2887 MJD=54520 sdR-b1-00050259.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

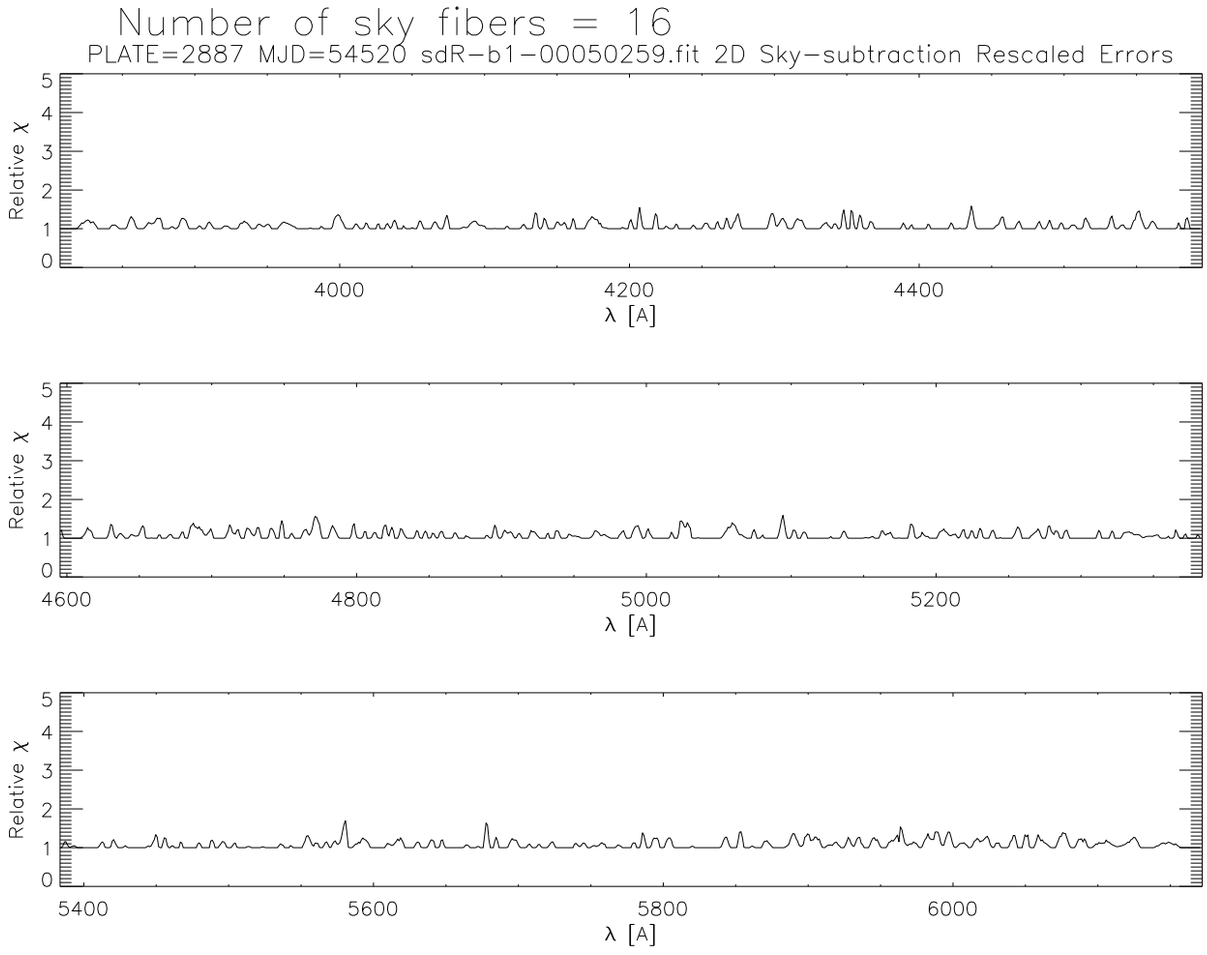

PLATE=2887 MJD=54520 sdR-b1-00050259.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

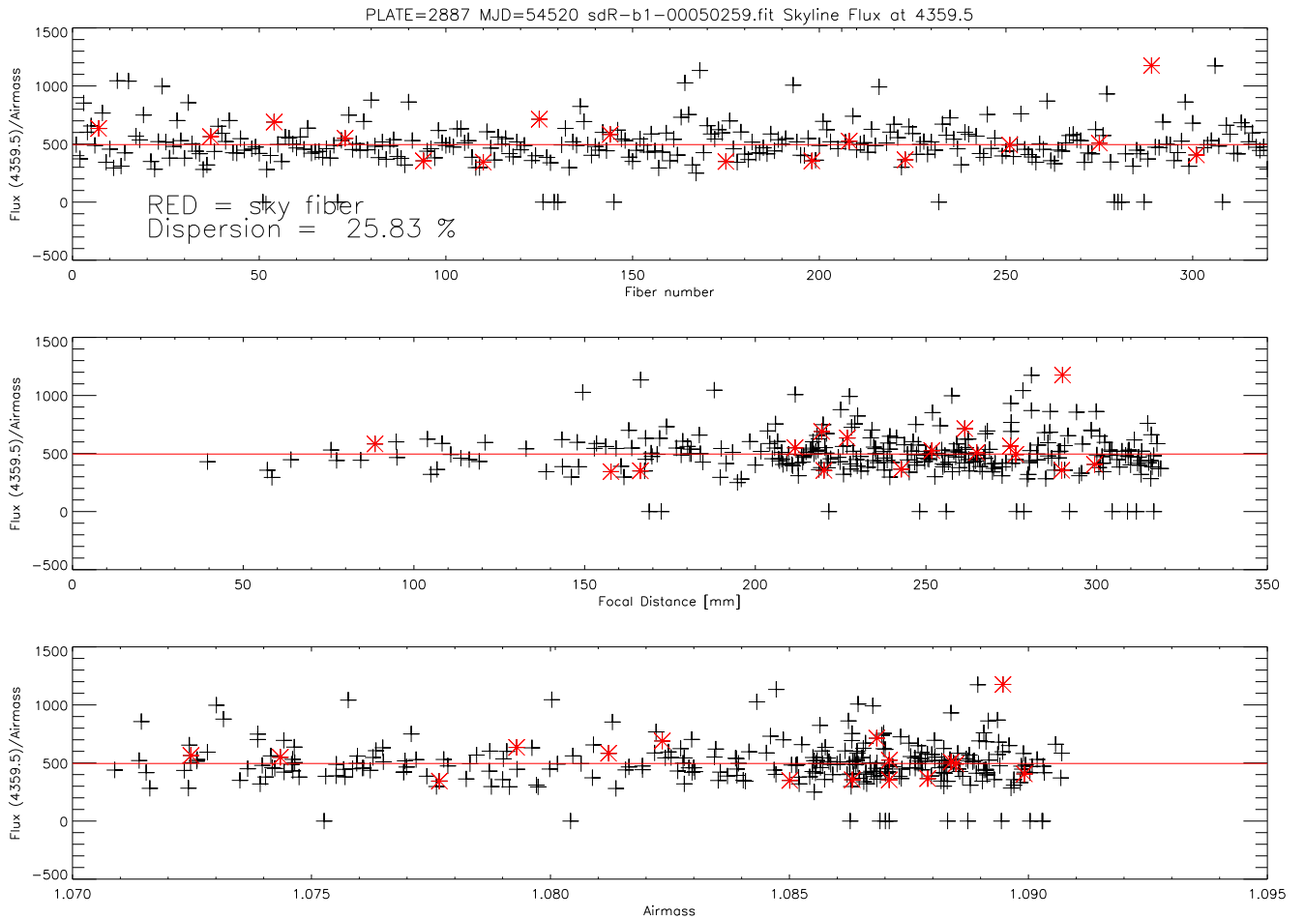

Number of sky fibers = 16
PLATE=2887 MJD=54520 sdR-b1-00050259.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

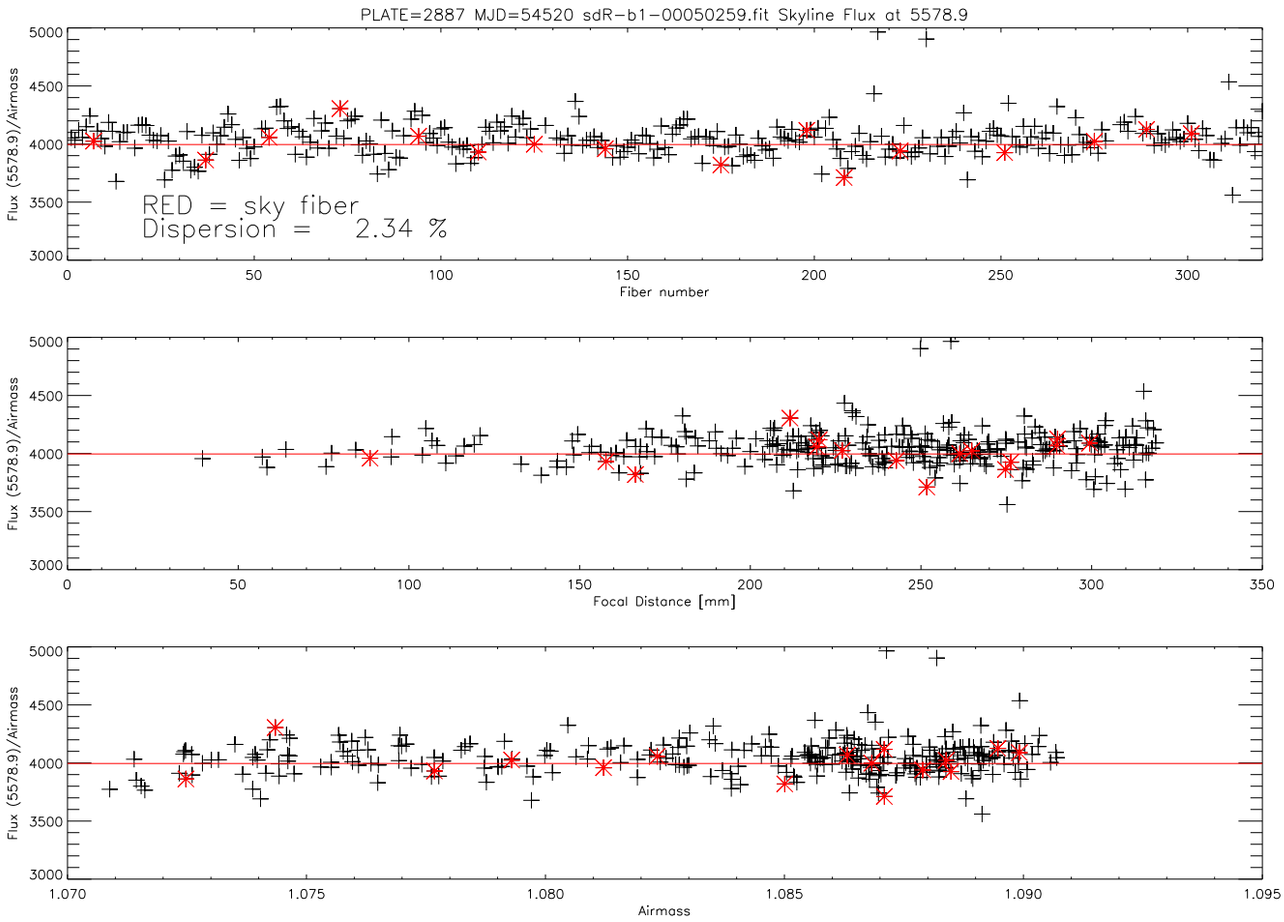

PLATE=2887 MJD=54520 sdR-b1-00050259.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

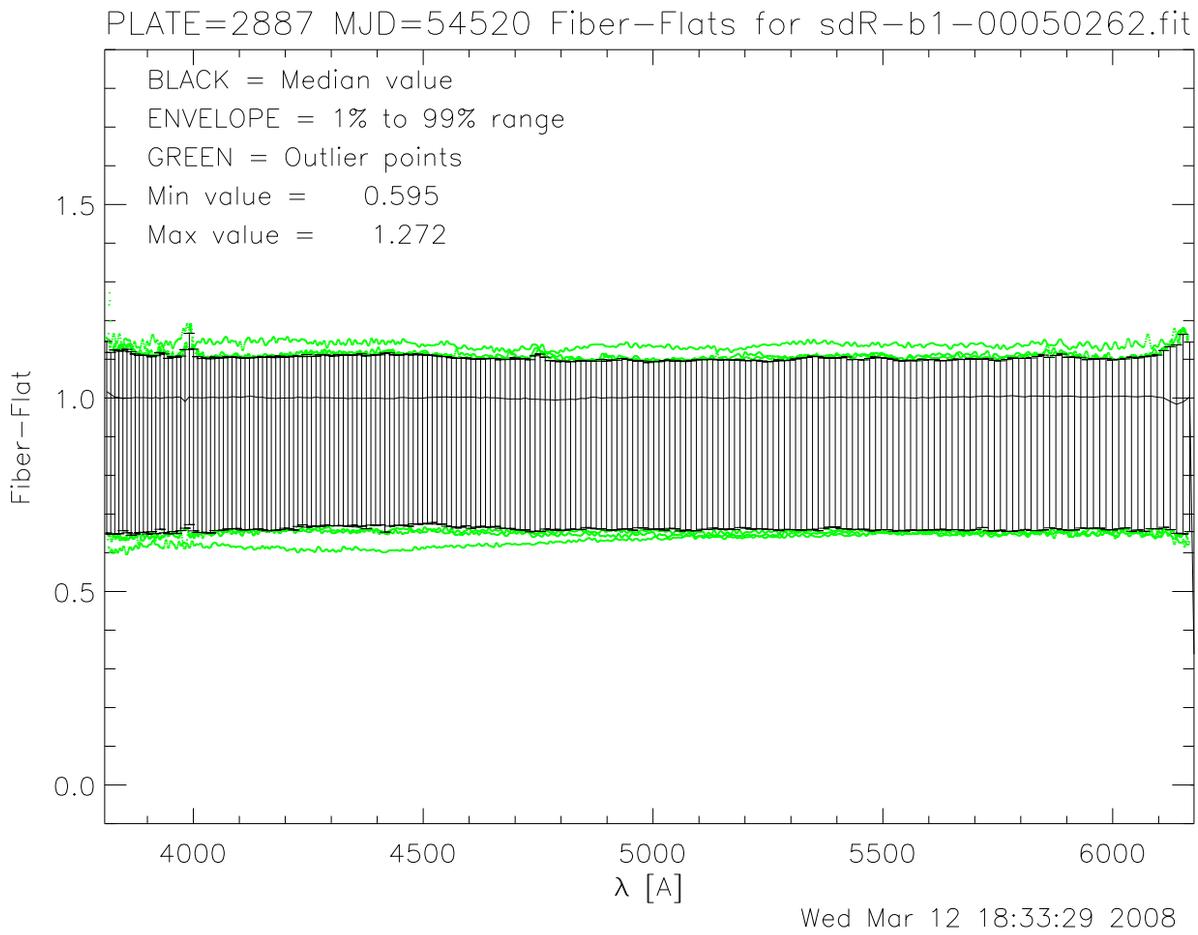

PLATE=2887 MJD=54520 sdR-b1-00050259.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

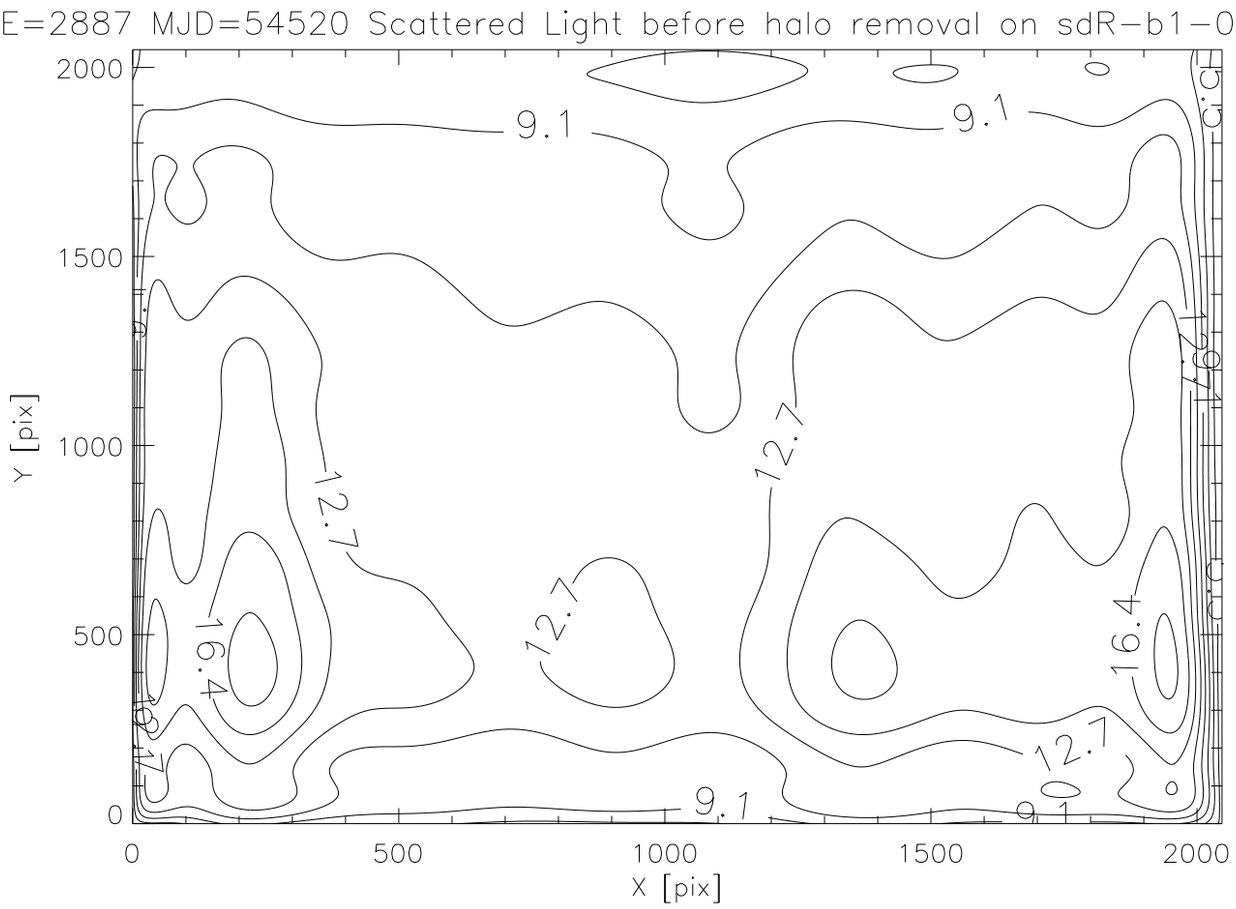

PLATE=2887 MJD=54520 sdR-b1-00050259.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

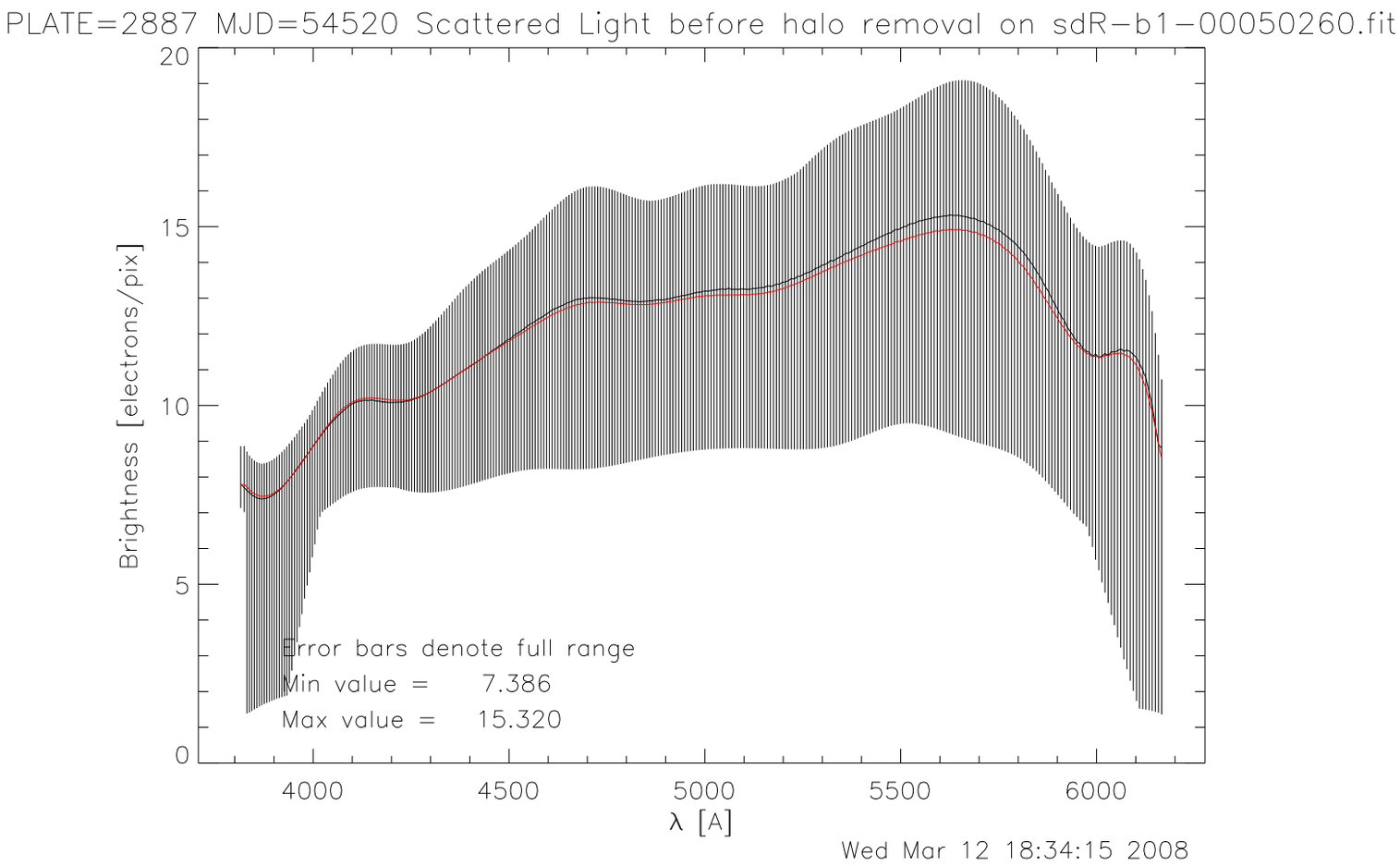

Number of sky fibers = 16
PLATE=2887 MJD=54520 sdR-b1-00050259.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

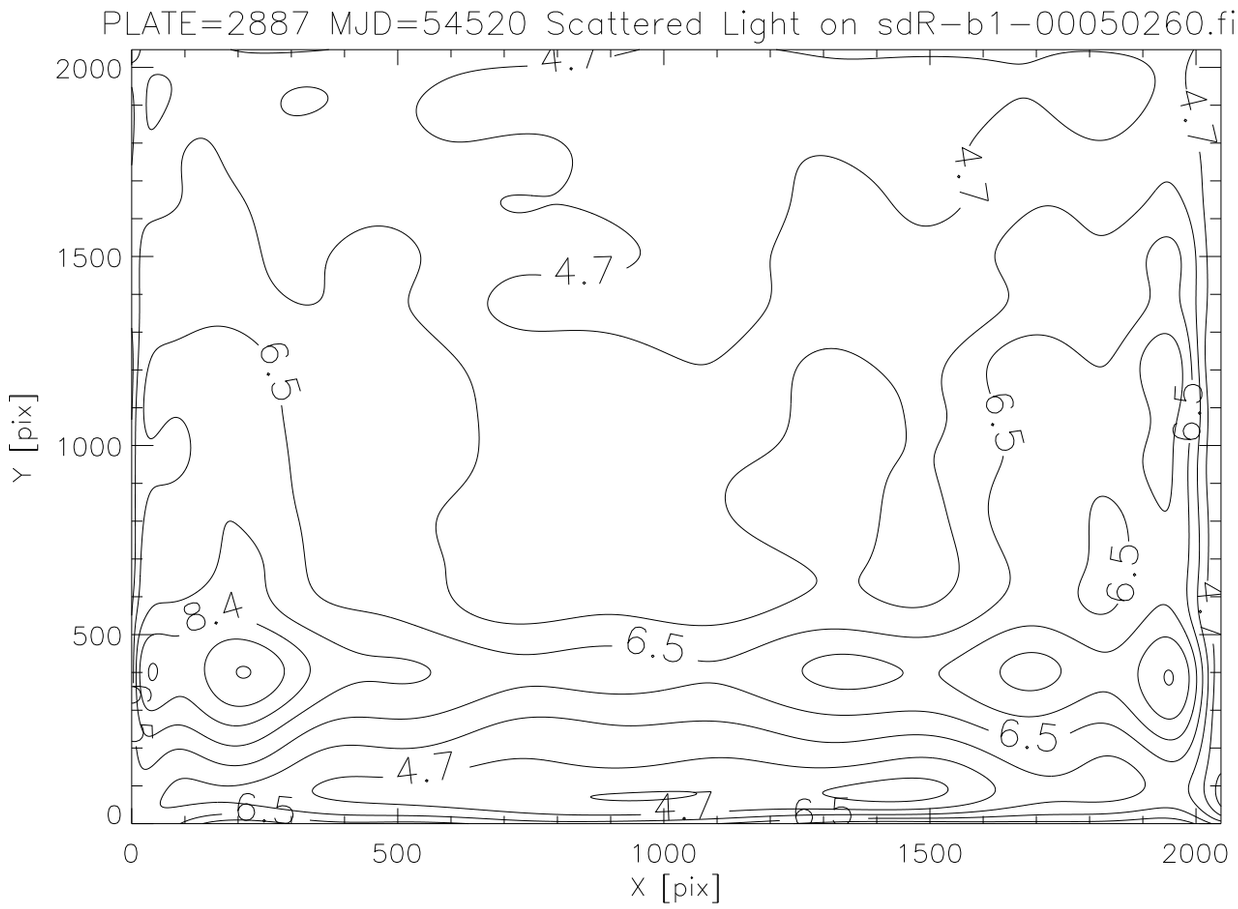

PLATE=2887 MJD=54520 sdR-b1-00050259.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 25.83 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

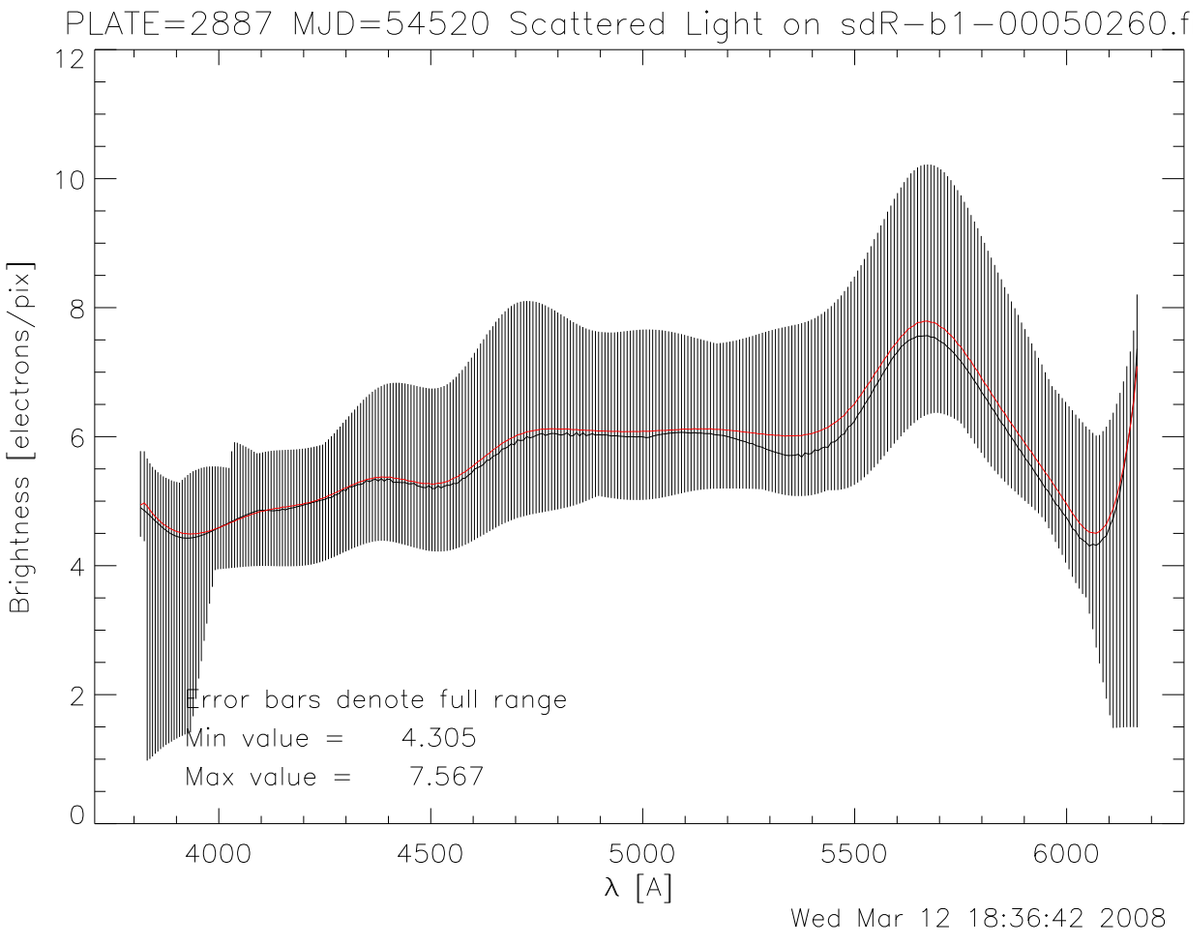

PLATE=2887 MJD=54520 sdR-b1-00050259.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.34 %
Fiber number
Focal Distance [mm]
Airmass

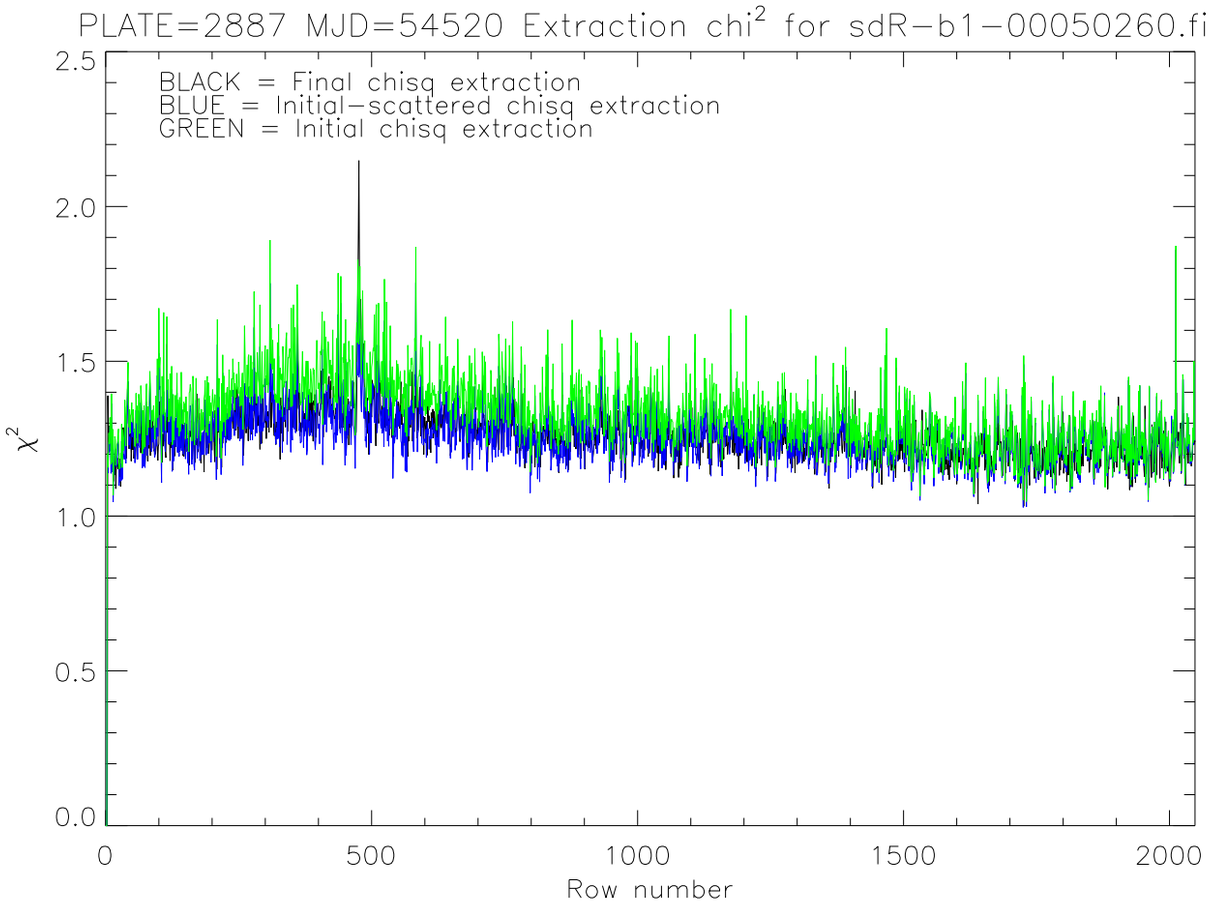

PLATE=2887 MJD=54520 Fiber-Flats for sdR-b1-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.595
Max value = 1.272
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:33:29 2008

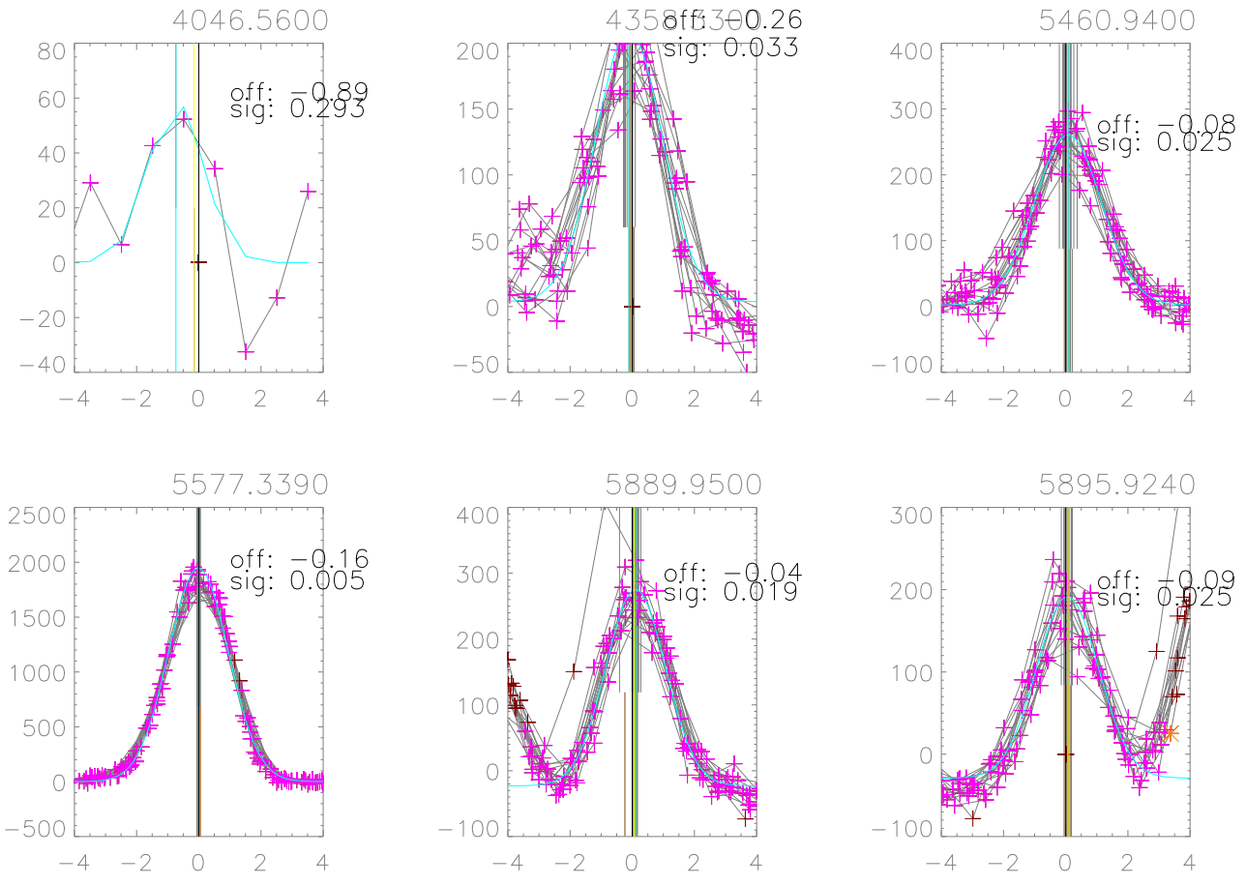

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b1-00050260.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
9.1
12.7
16.4

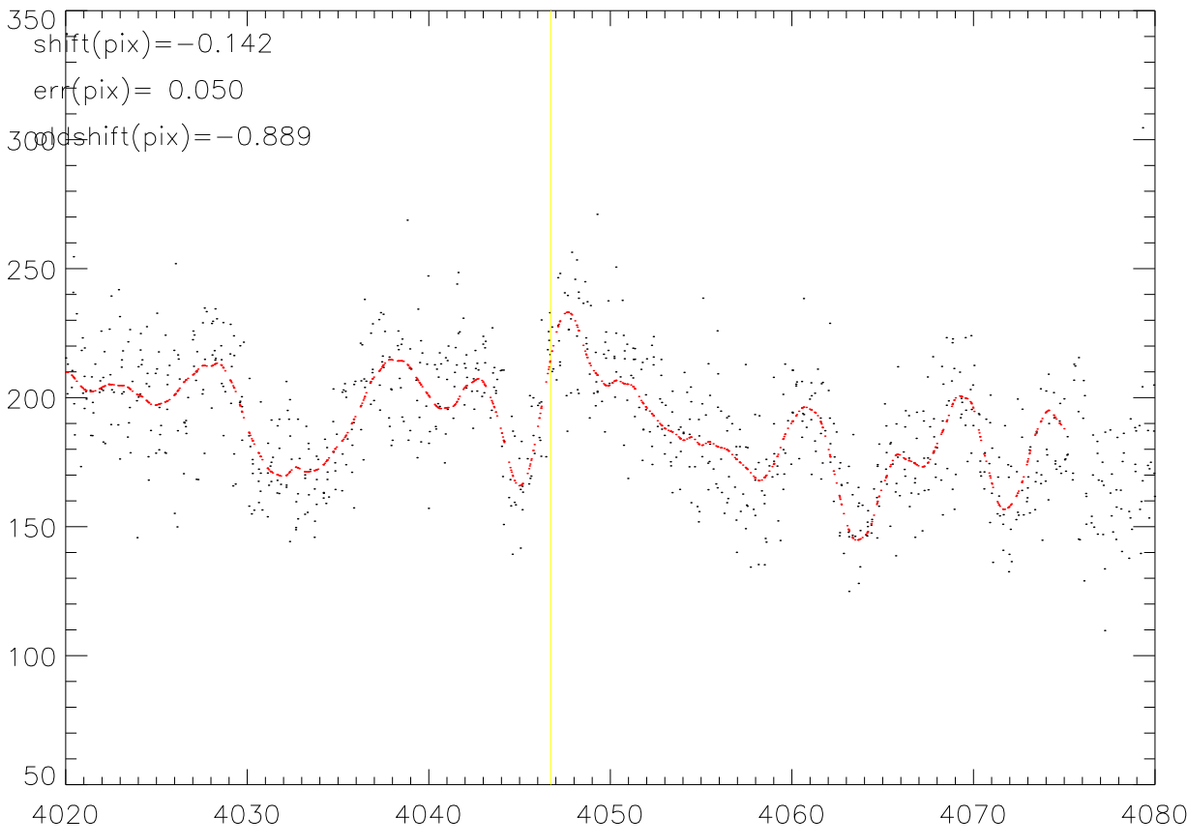

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b1-00050260.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.386
Max value = 15.320
Wed Mar 12 18:34:15 2008

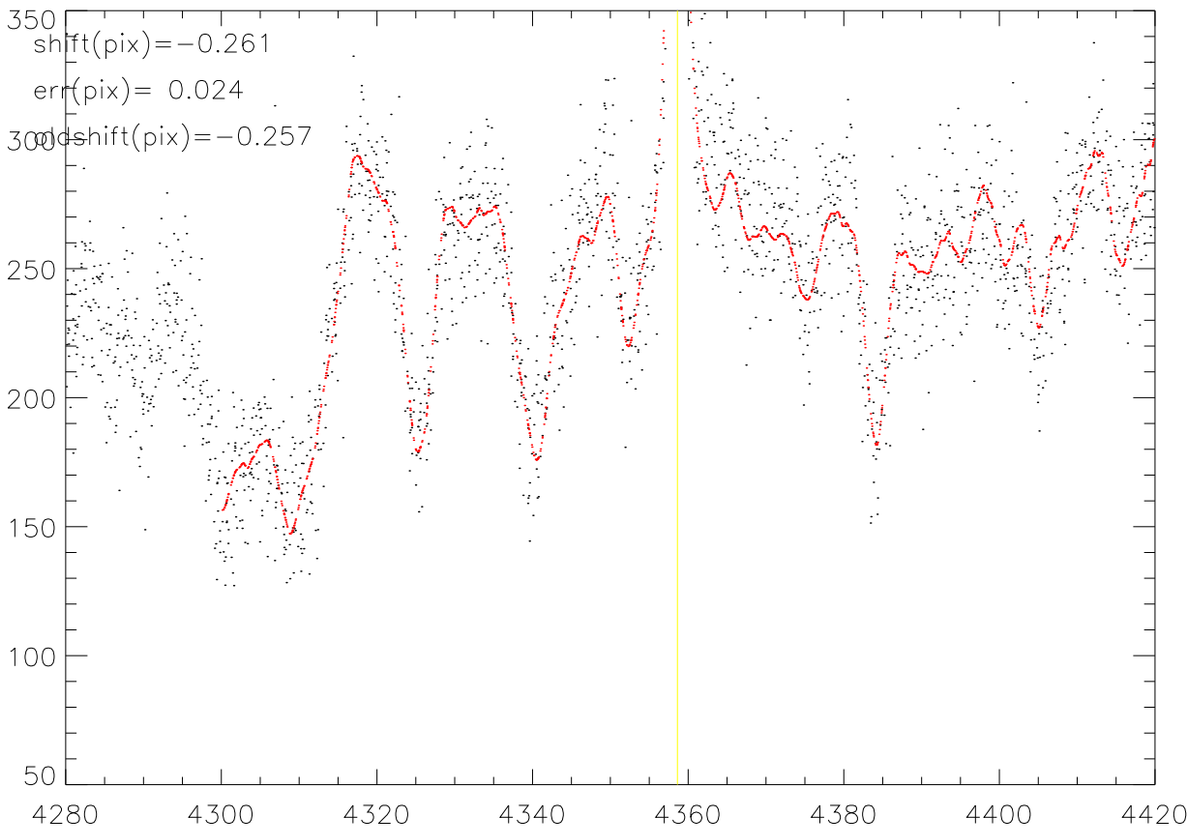

PLATE=2887 MJD=54520 Scattered Light on sdR-b1-00050260.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.7
6.5
8.4

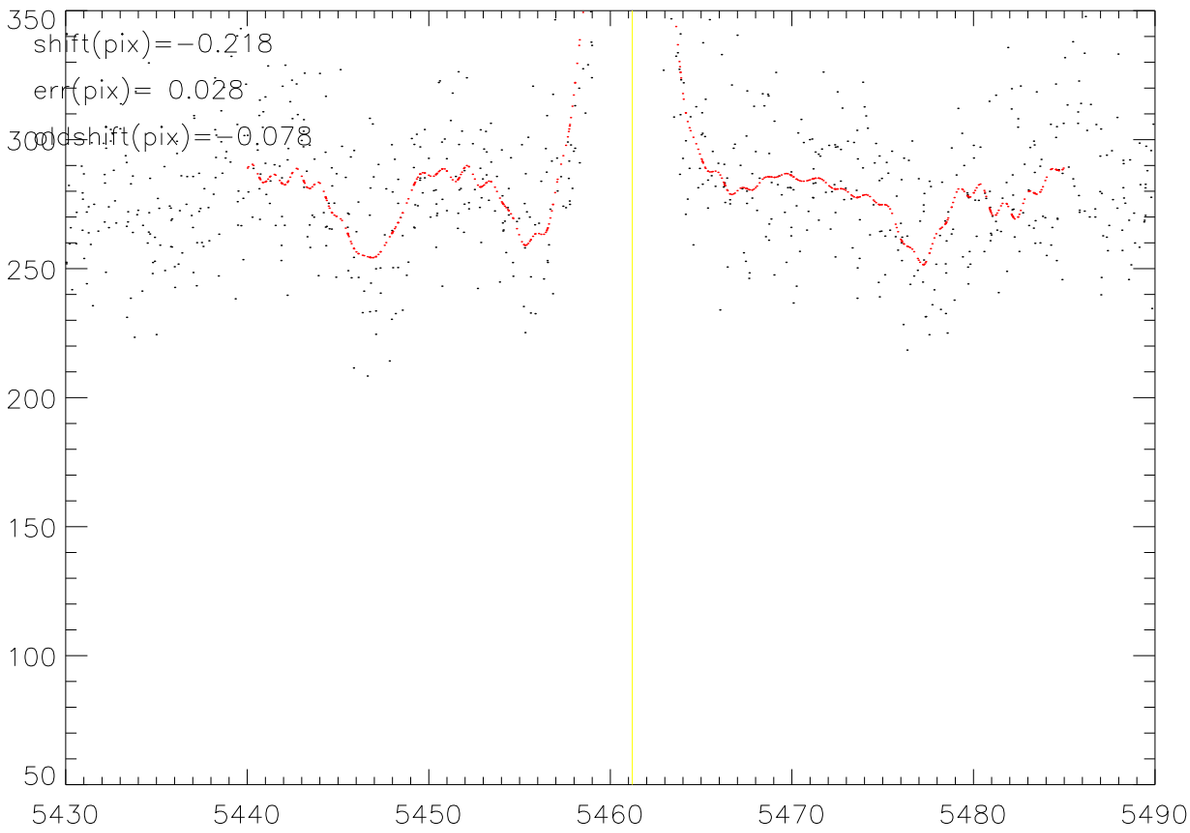

PLATE=2887 MJD=54520 Scattered Light on sdR-b1-00050260.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.305
Max value = 7.567
Wed Mar 12 18:36:42 2008

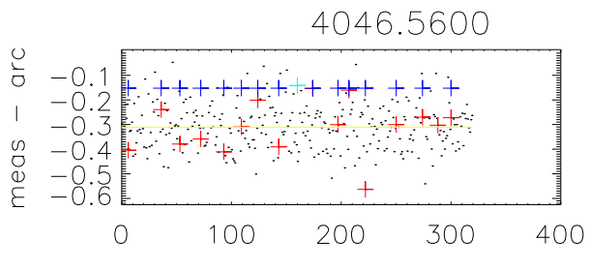

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-b1-00050260.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

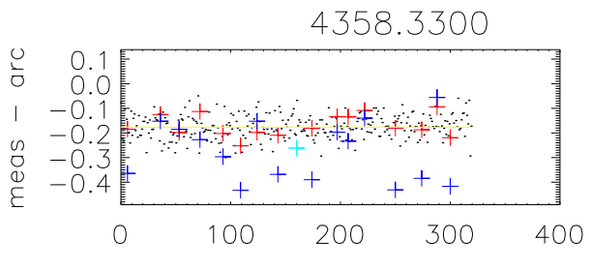

4046.5600
off: −0.89
sig: 0.293
4358.3300
off: −0.26
sig: 0.033
5460.9400
off: −0.08
sig: 0.025
5577.3390
off: −0.16
sig: 0.005
5889.9500
off: −0.04
sig: 0.019
5895.9240
off: −0.09
sig: 0.025

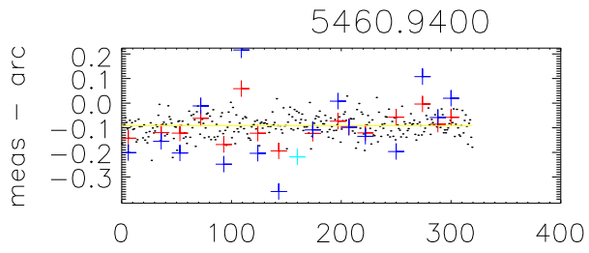

shift(pix)=−0.142
err(pix)= 0.050
oldshift(pix)=−0.889
350
300
250
200
150
100
50
4020
4030
4040
4050
4060
4070
4080

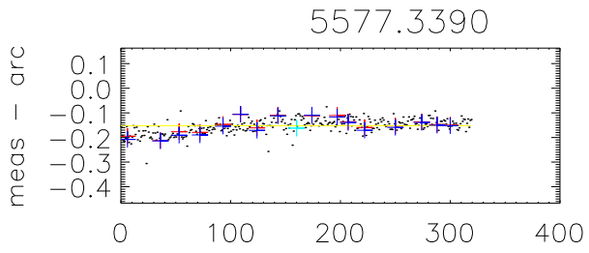

shift(pix)=−0.261
err(pix)= 0.024
oldshift(pix)=−0.257
350
300
250
200
150
100
50
4280
4300
4320
4340
4360
4380
4400
4420

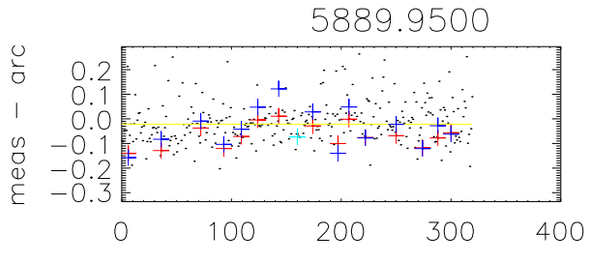

shift(pix)=−0.218
err(pix)= 0.028
oldshift(pix)=−0.078
350
300
250
200
150
100
50
5430
5440
5450
5460
5470
5480
5490

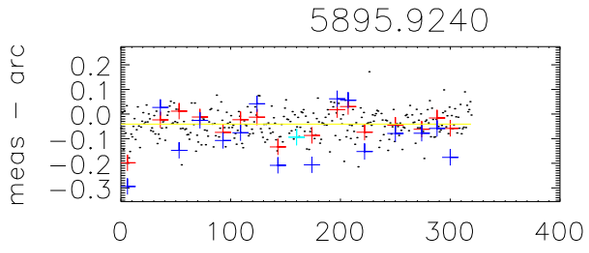

4046.5600
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

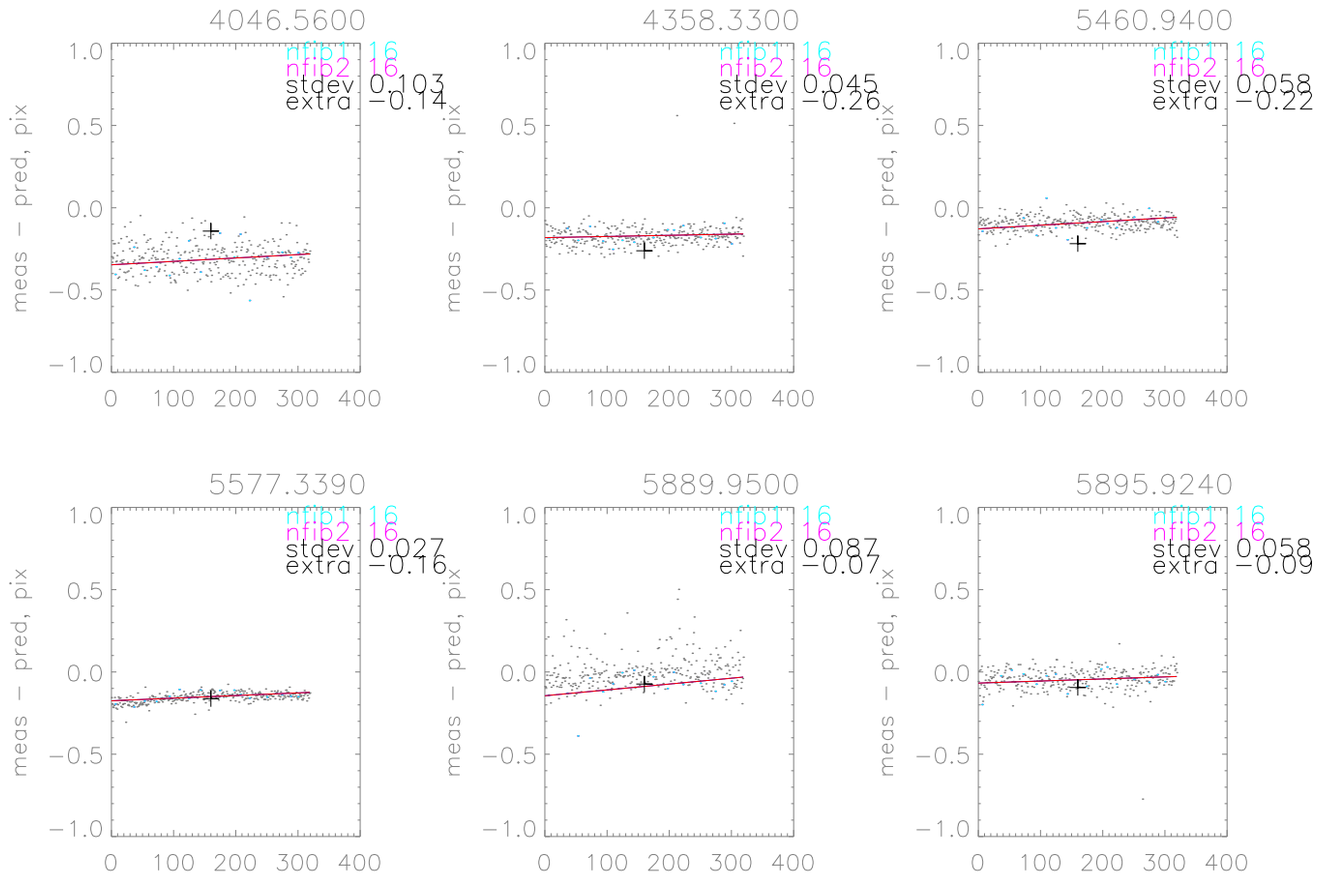

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

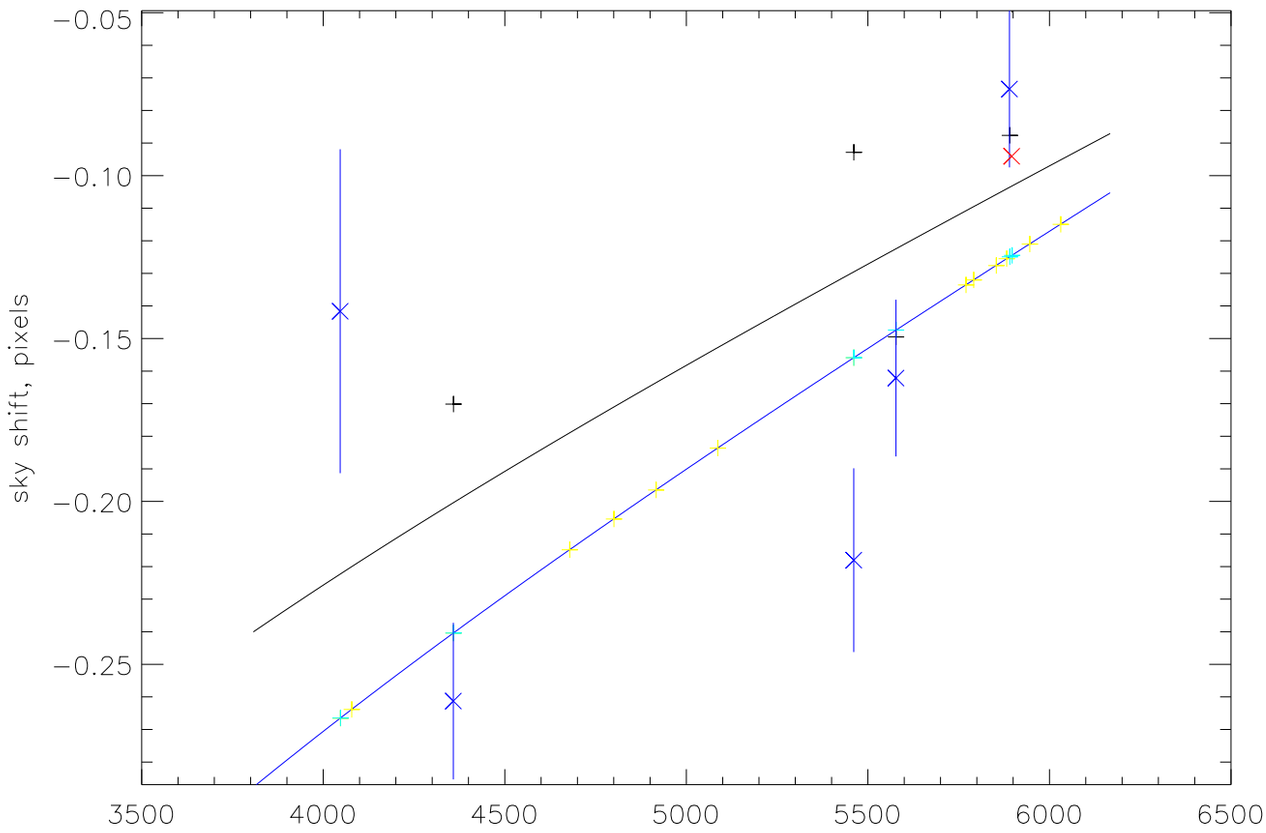

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

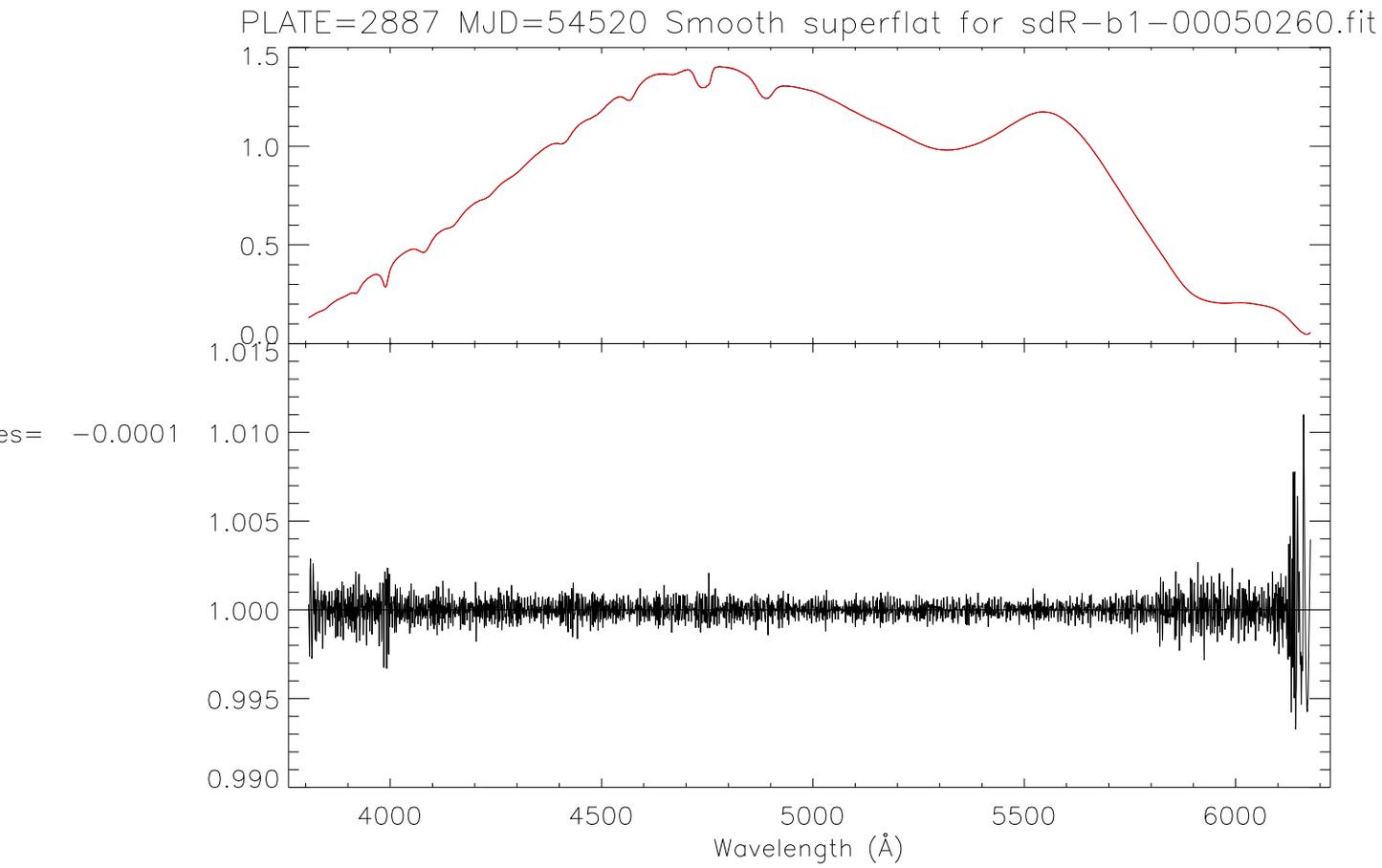

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

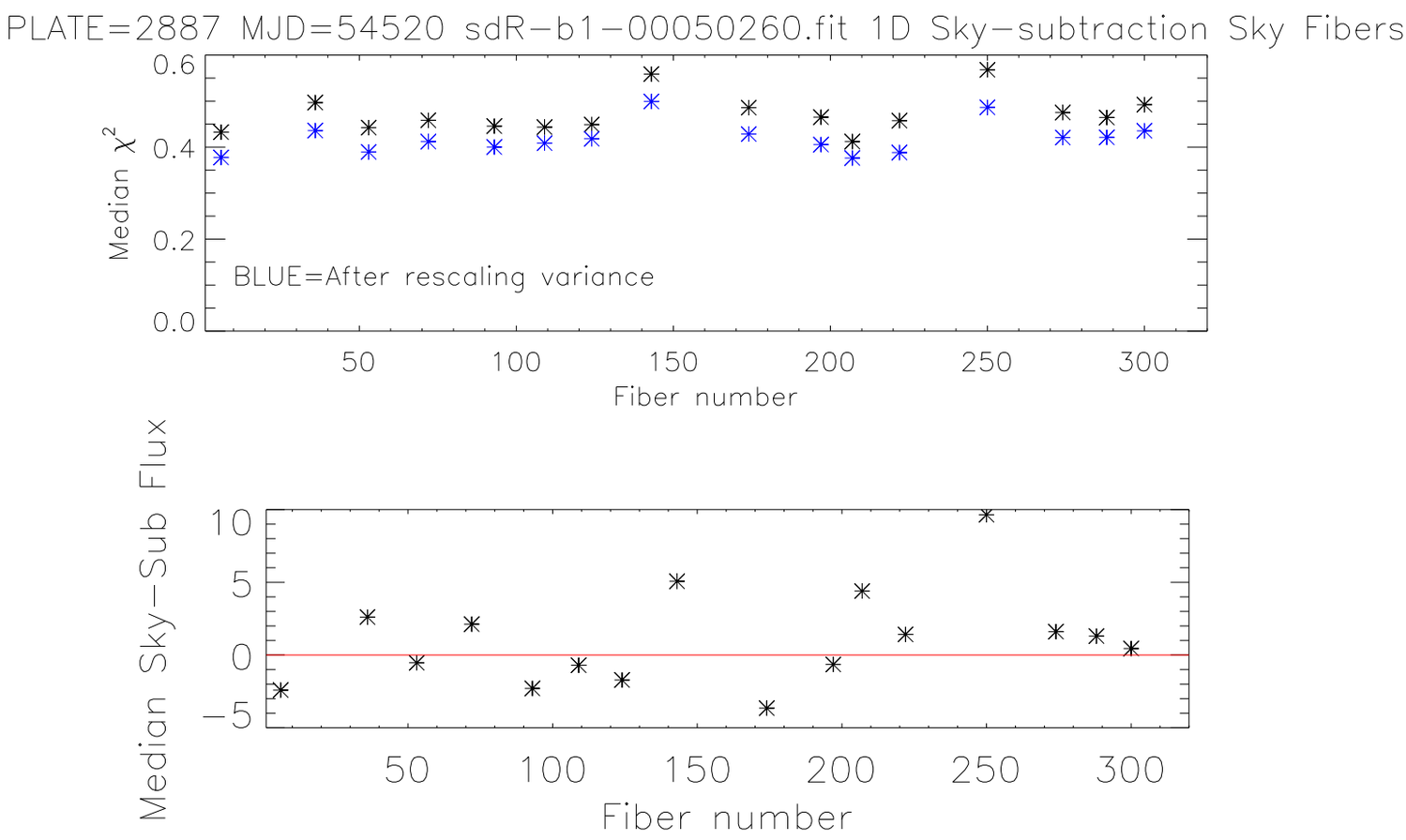

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

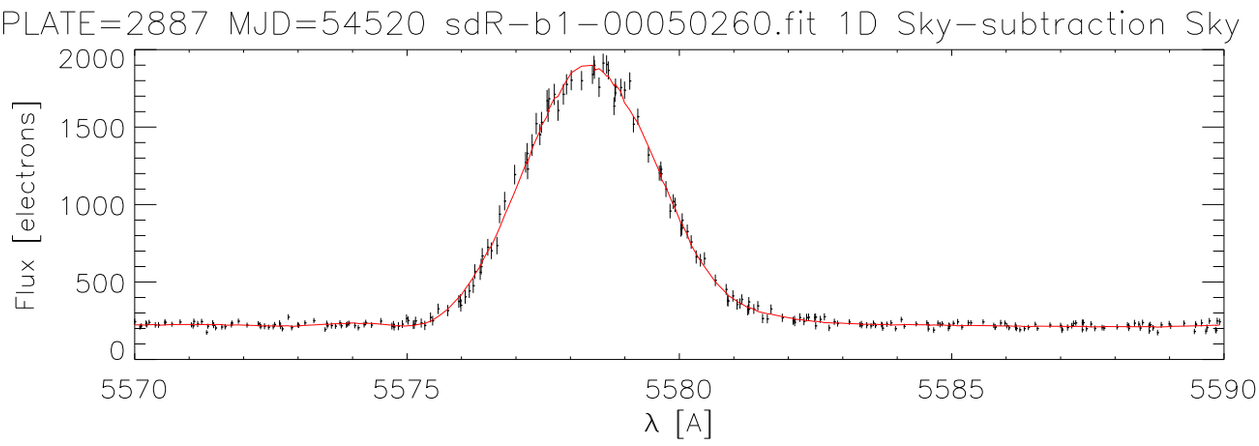

4046.5600
nfib1 16
nfib2 16
stdev 0.103
extra −0.14
4358.3300
nfib1 16
nfib2 16
stdev 0.045
extra −0.26
5460.9400
nfib1 16
nfib2 16
stdev 0.058
extra −0.22
5577.3390
nfib1 16
nfib2 16
stdev 0.027
extra −0.16
5889.9500
nfib1 16
nfib2 16
stdev 0.087
extra −0.07
5895.9240
nfib1 16
nfib2 16
stdev 0.058
extra −0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

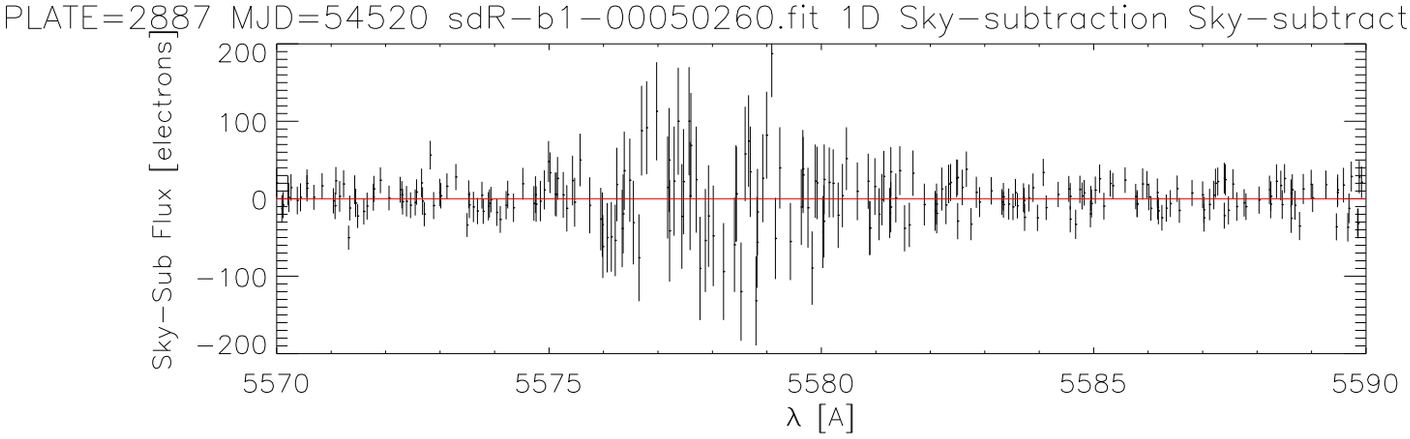

−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

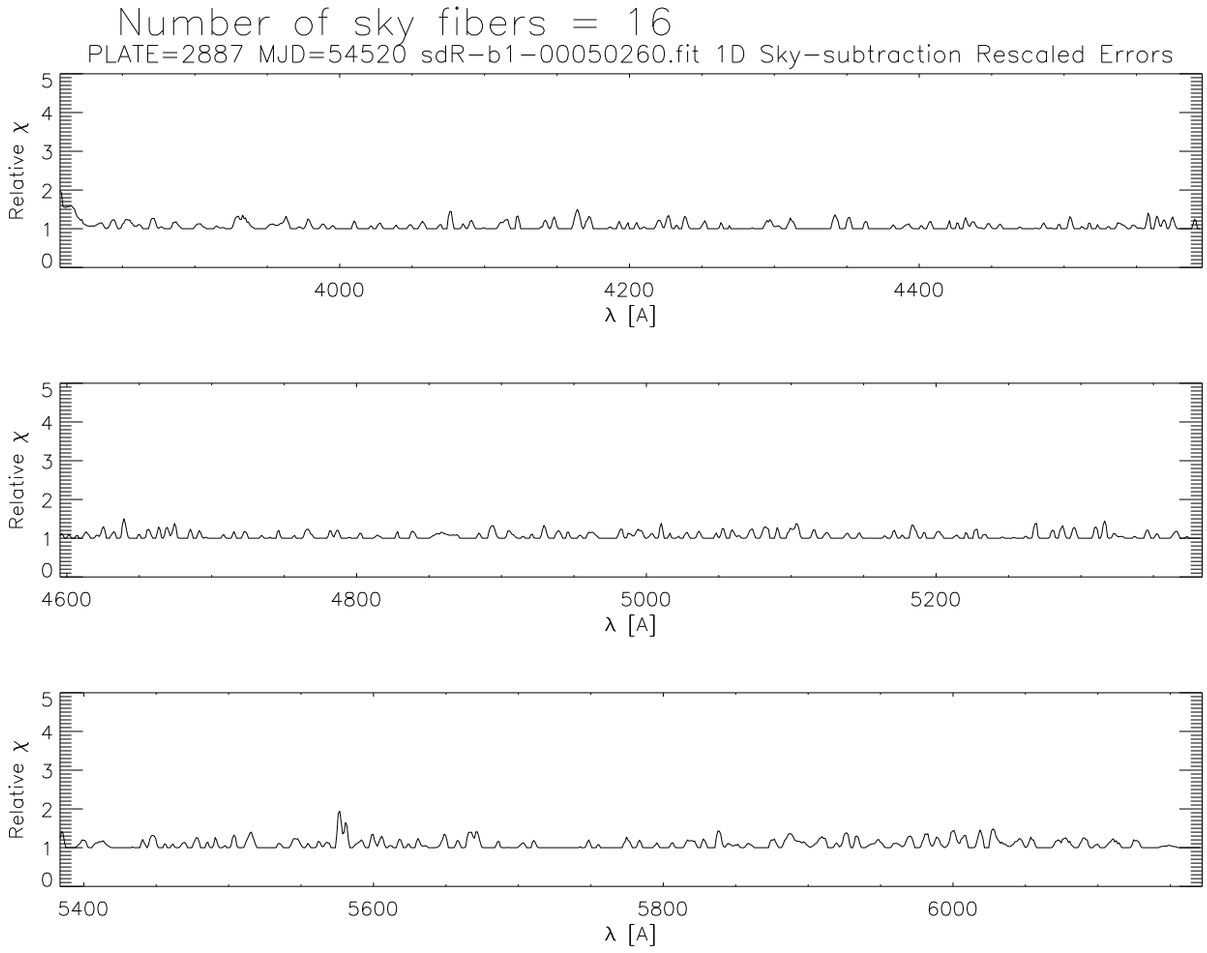

PLATE=2887 MJD=54520 Smooth superflat for sdR-b1-00050260.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

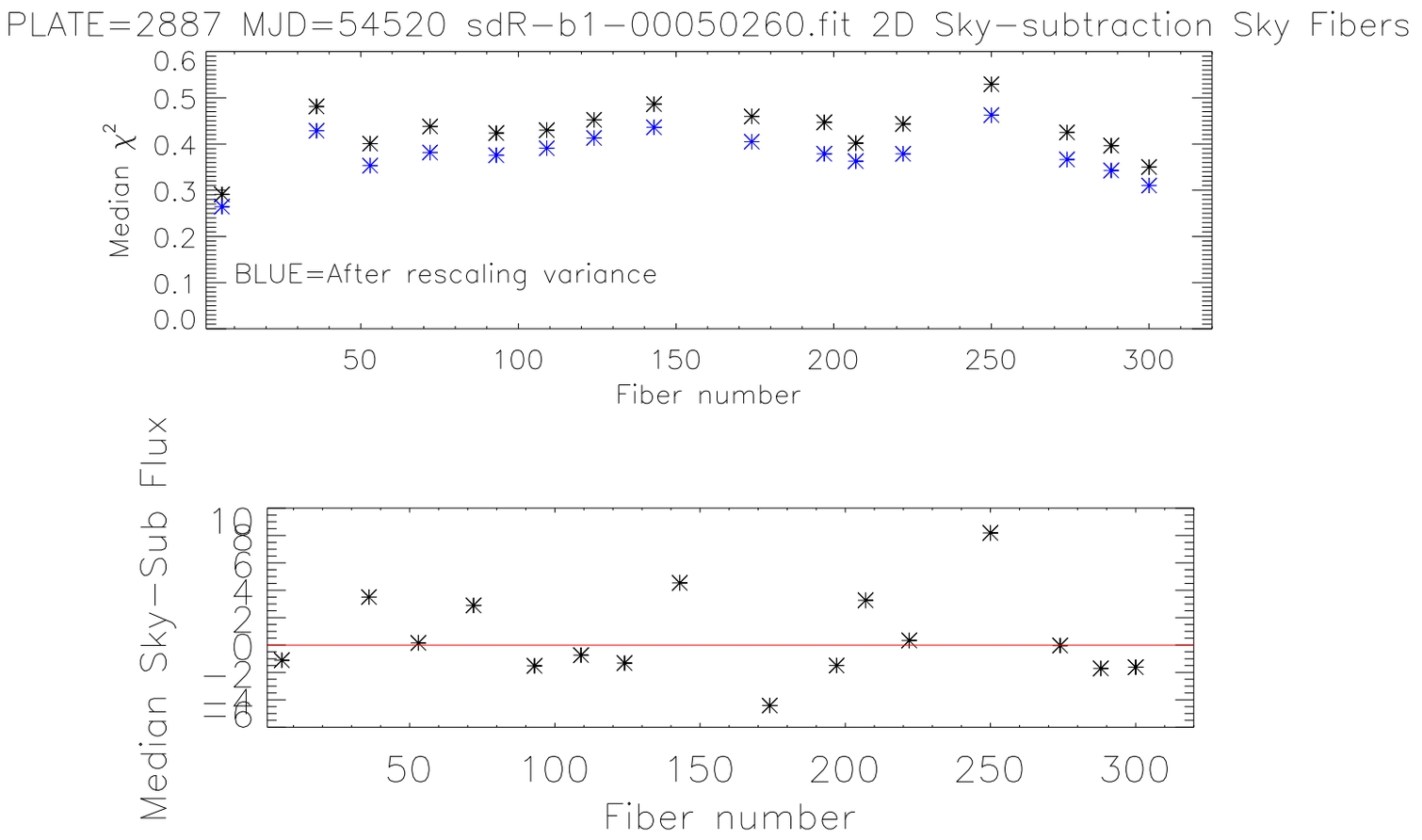
es= −0.0001

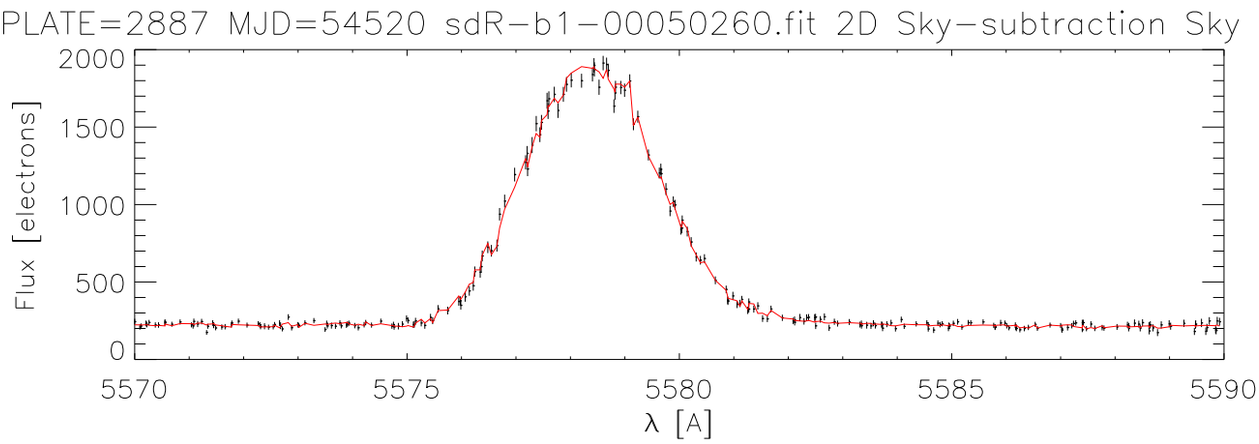

PLATE=2887 MJD=54520 sdR-b1-00050260.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
50
100
150
200
250
300
Fiber number

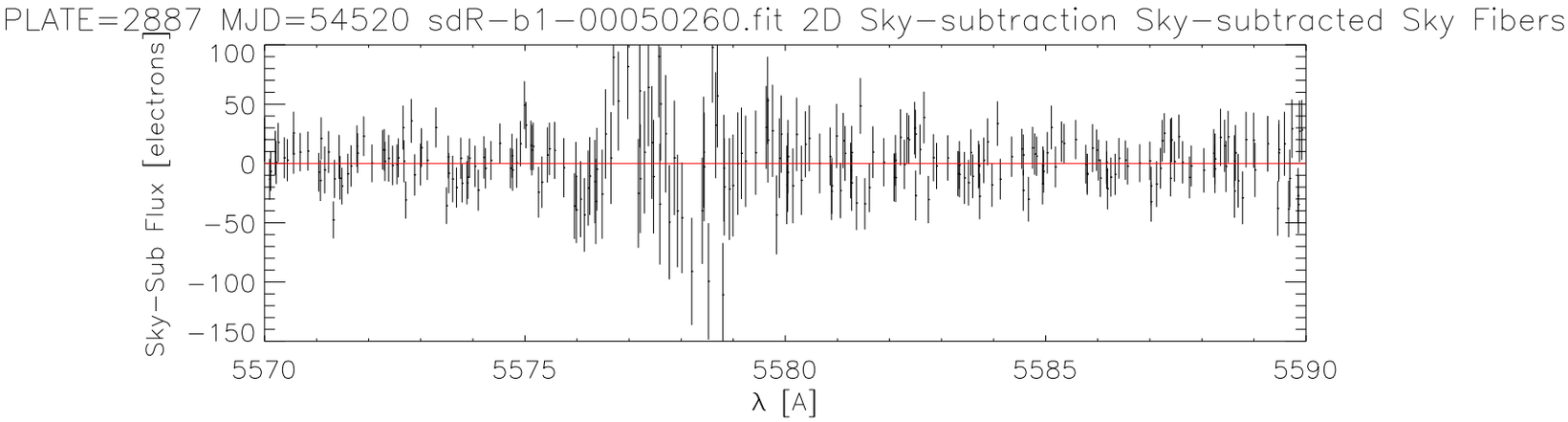

PLATE=2887 MJD=54520 sdR-b1-00050260.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

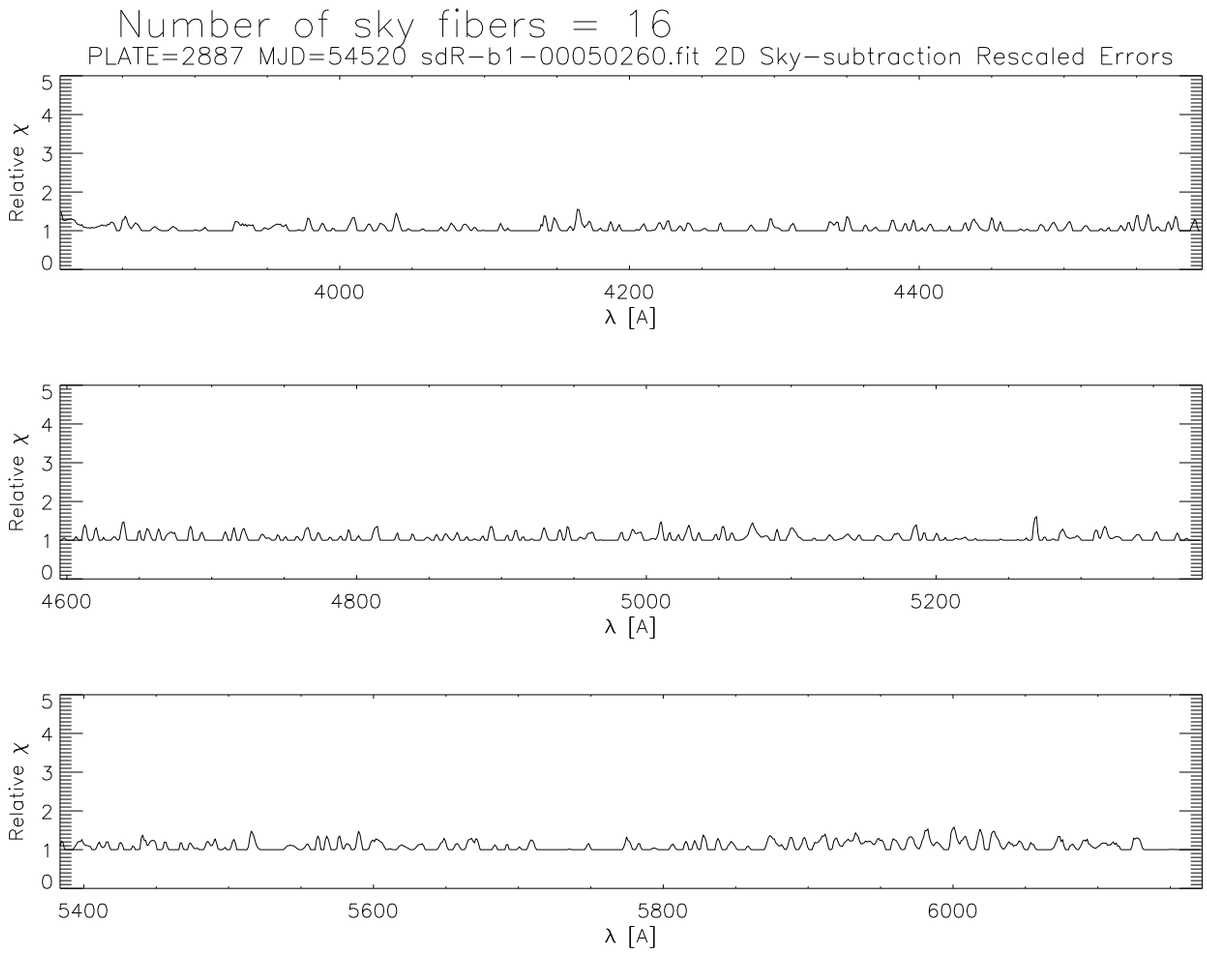

PLATE=2887 MJD=54520 sdR-b1-00050260.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

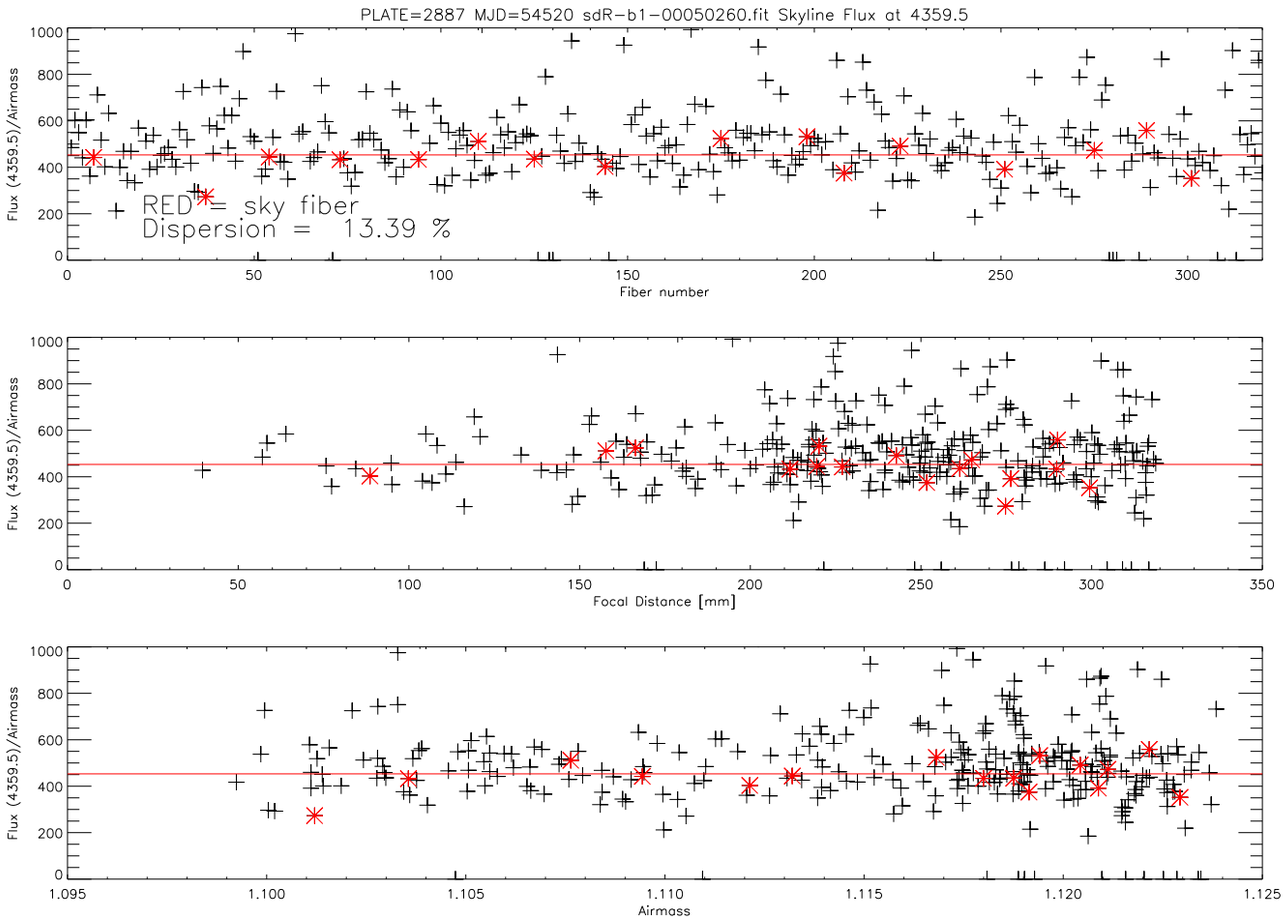

Number of sky fibers = 16
PLATE=2887 MJD=54520 sdR-b1-00050260.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

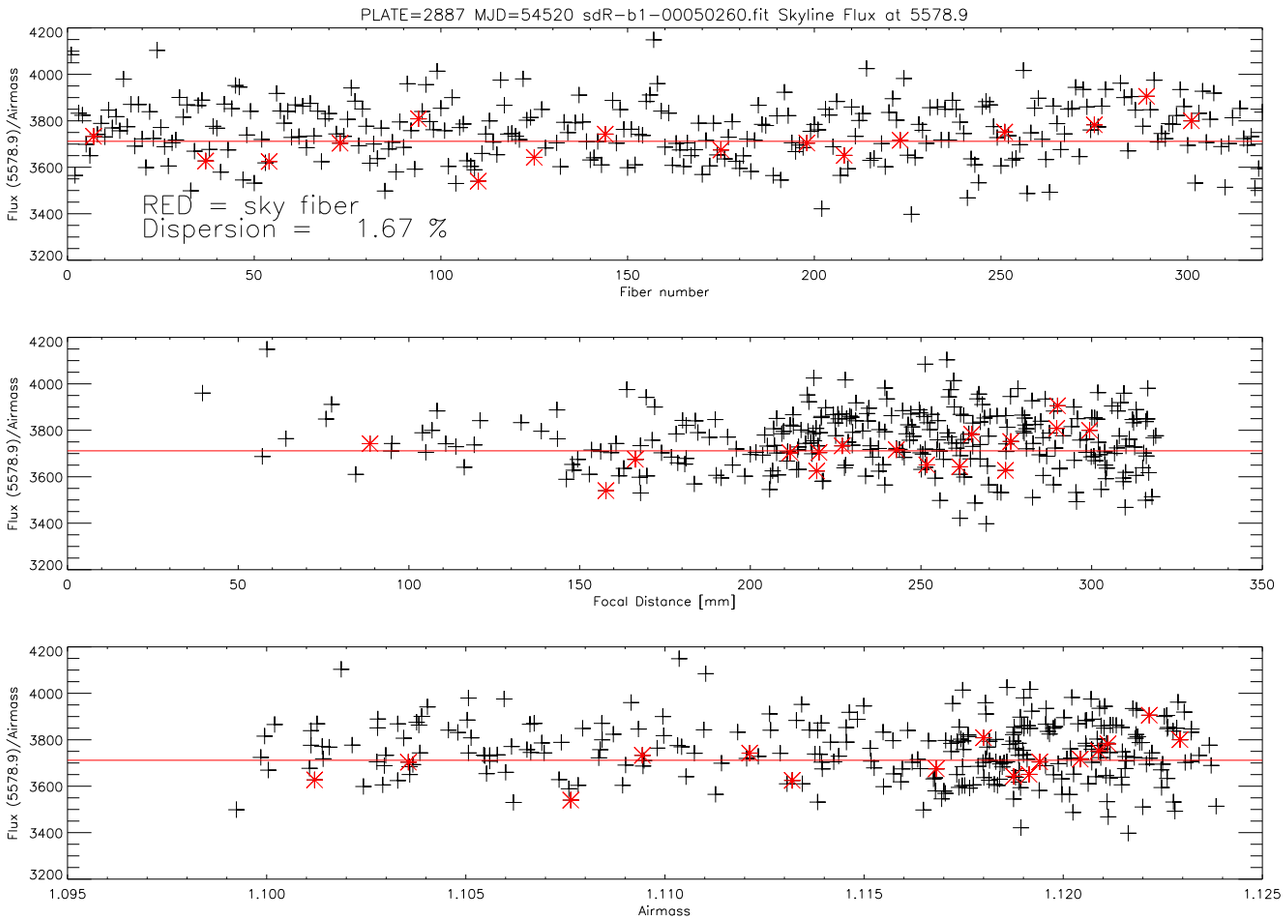

PLATE=2887 MJD=54520 sdR-b1-00050260.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

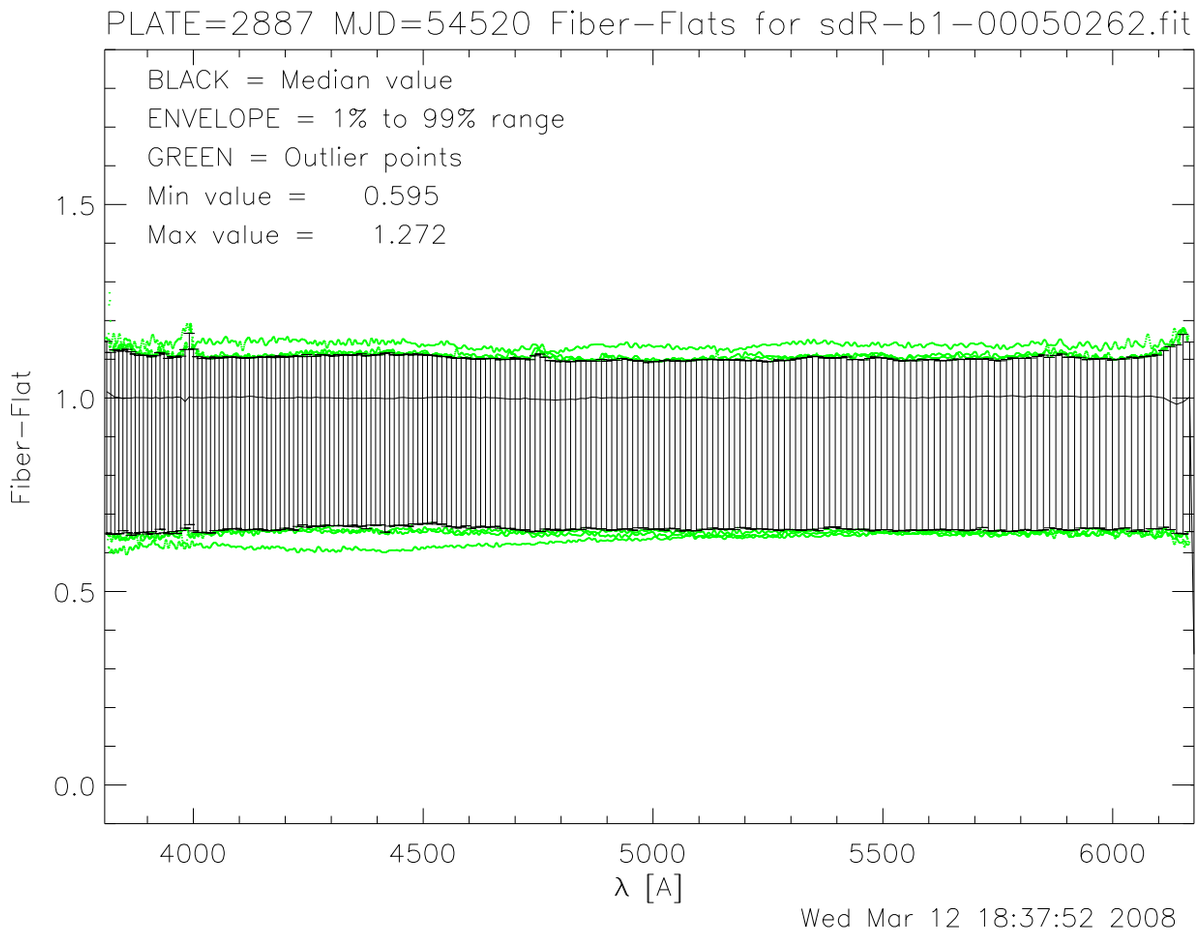

PLATE=2887 MJD=54520 sdR-b1-00050260.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

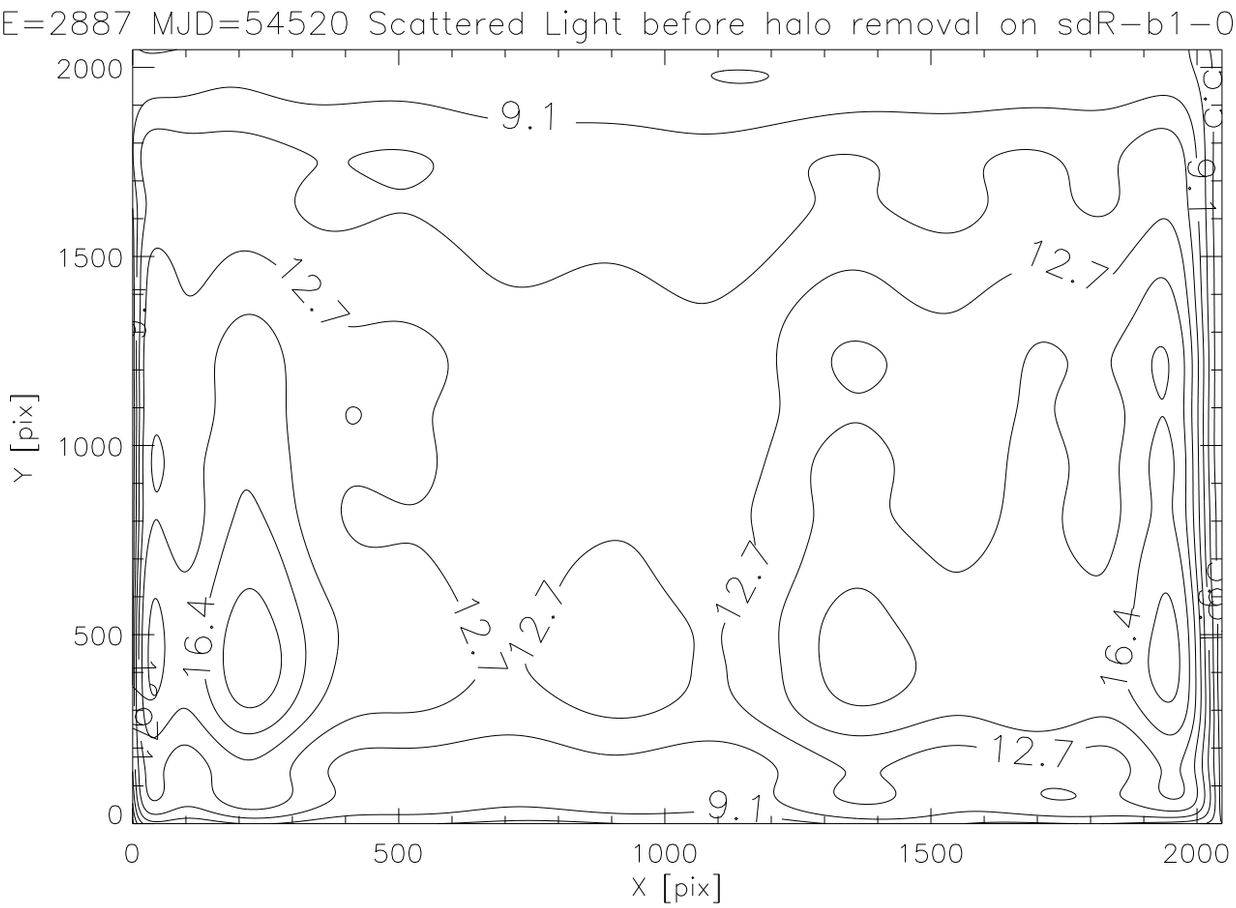

PLATE=2887 MJD=54520 sdR-b1-00050260.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

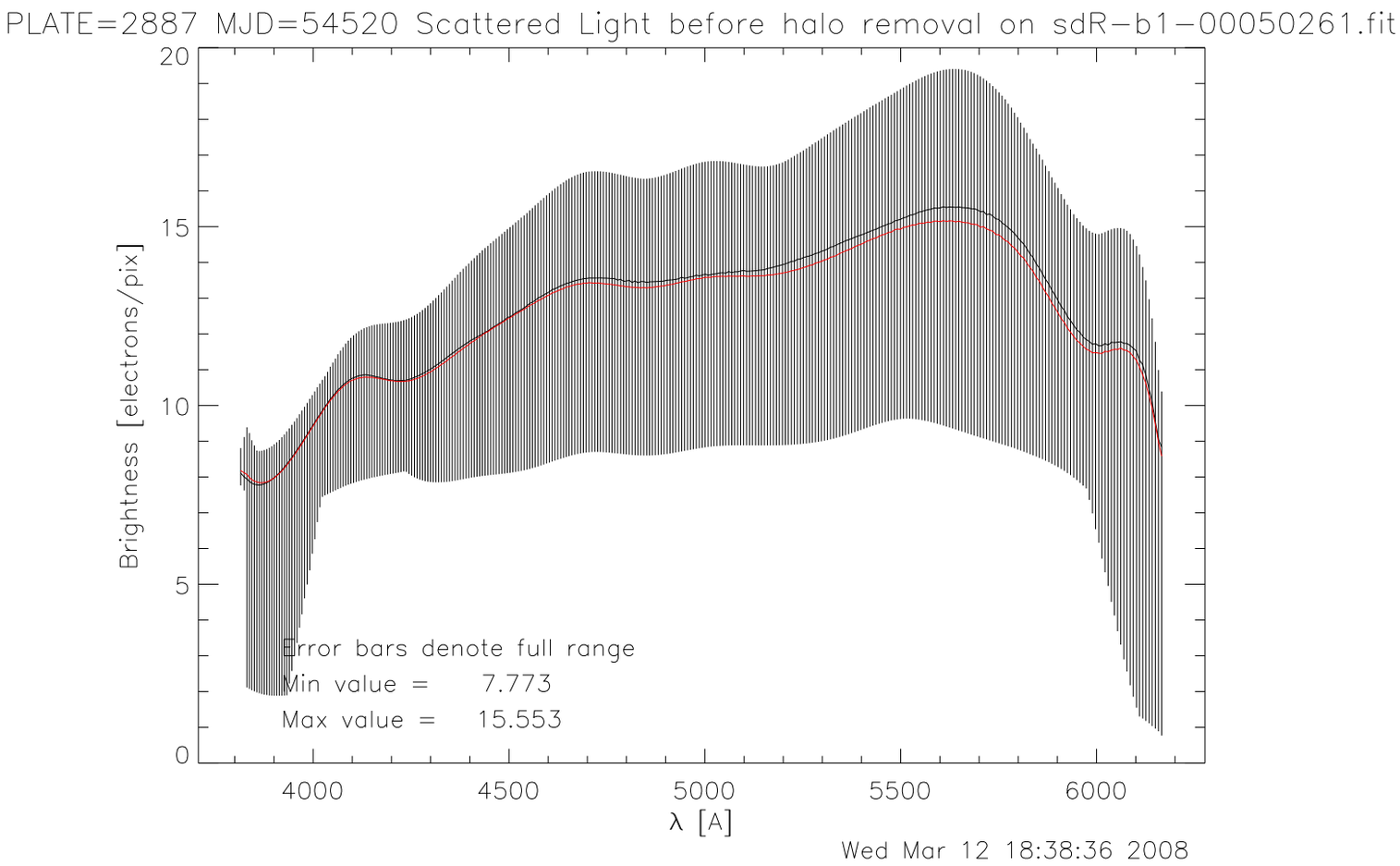

Number of sky fibers = 16
PLATE=2887 MJD=54520 sdR-b1-00050260.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

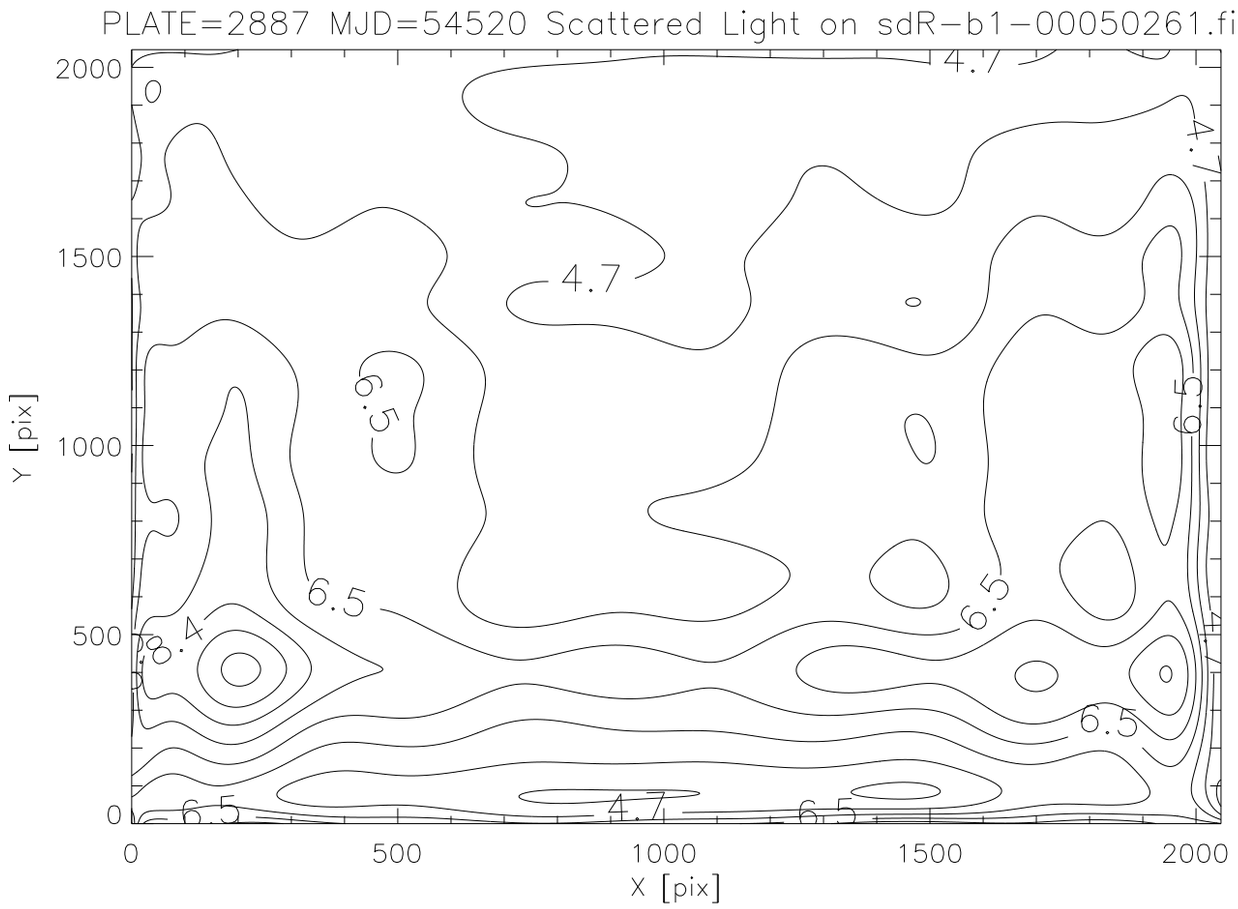

PLATE=2887 MJD=54520 sdR-b1-00050260.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 13.39 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

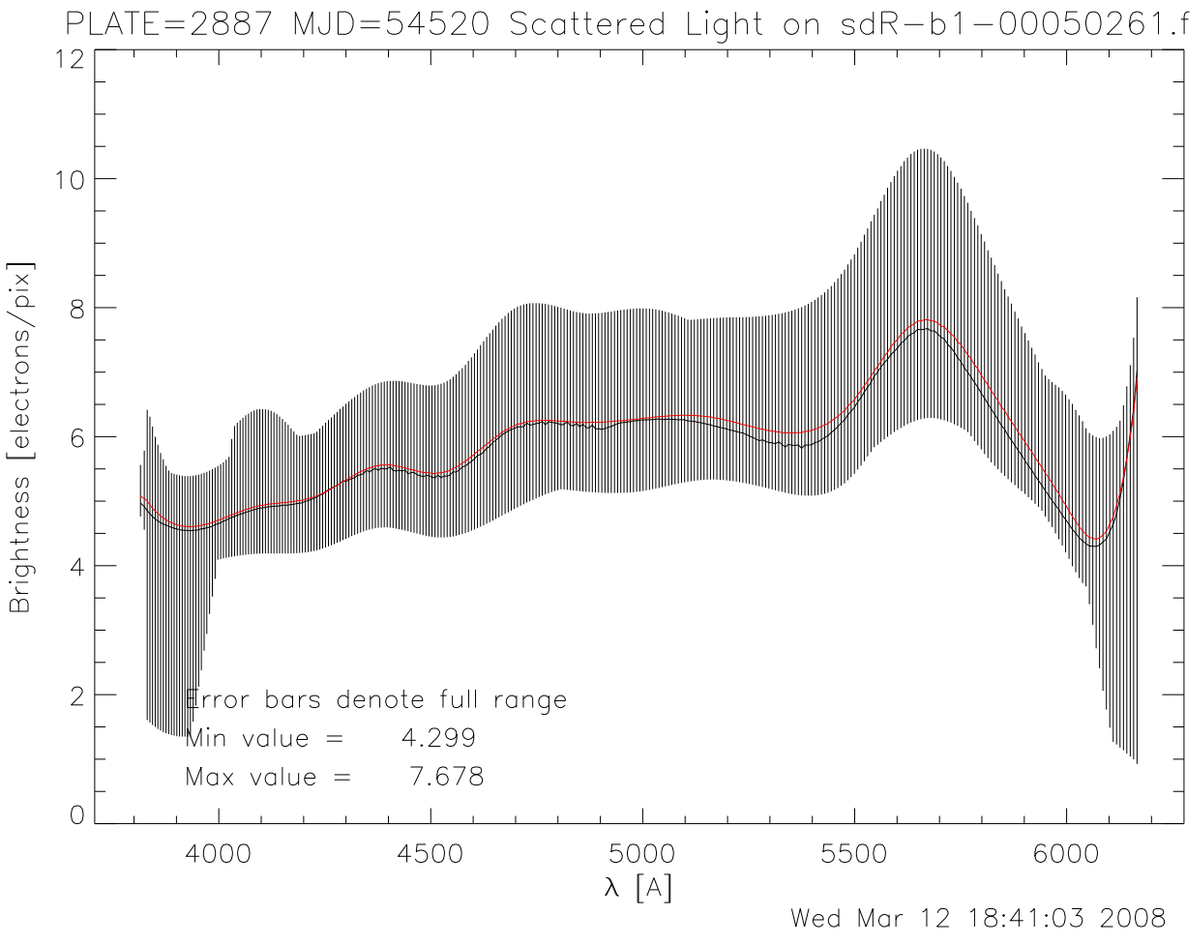

PLATE=2887 MJD=54520 sdR-b1-00050260.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.67 %
Fiber number
Focal Distance [mm]
Airmass

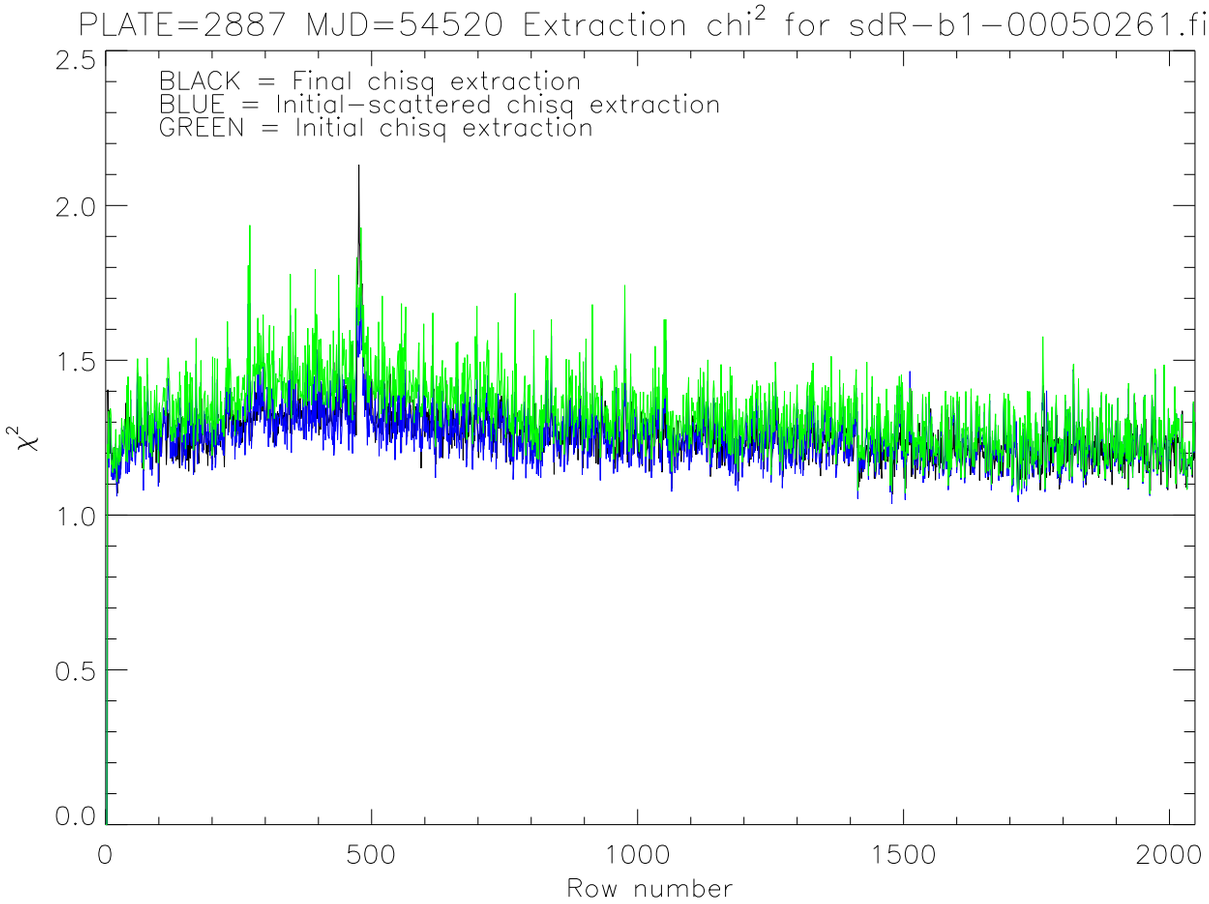

PLATE=2887 MJD=54520 Fiber-Flats for sdR-b1-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.595
Max value = 1.272
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:37:52 2008

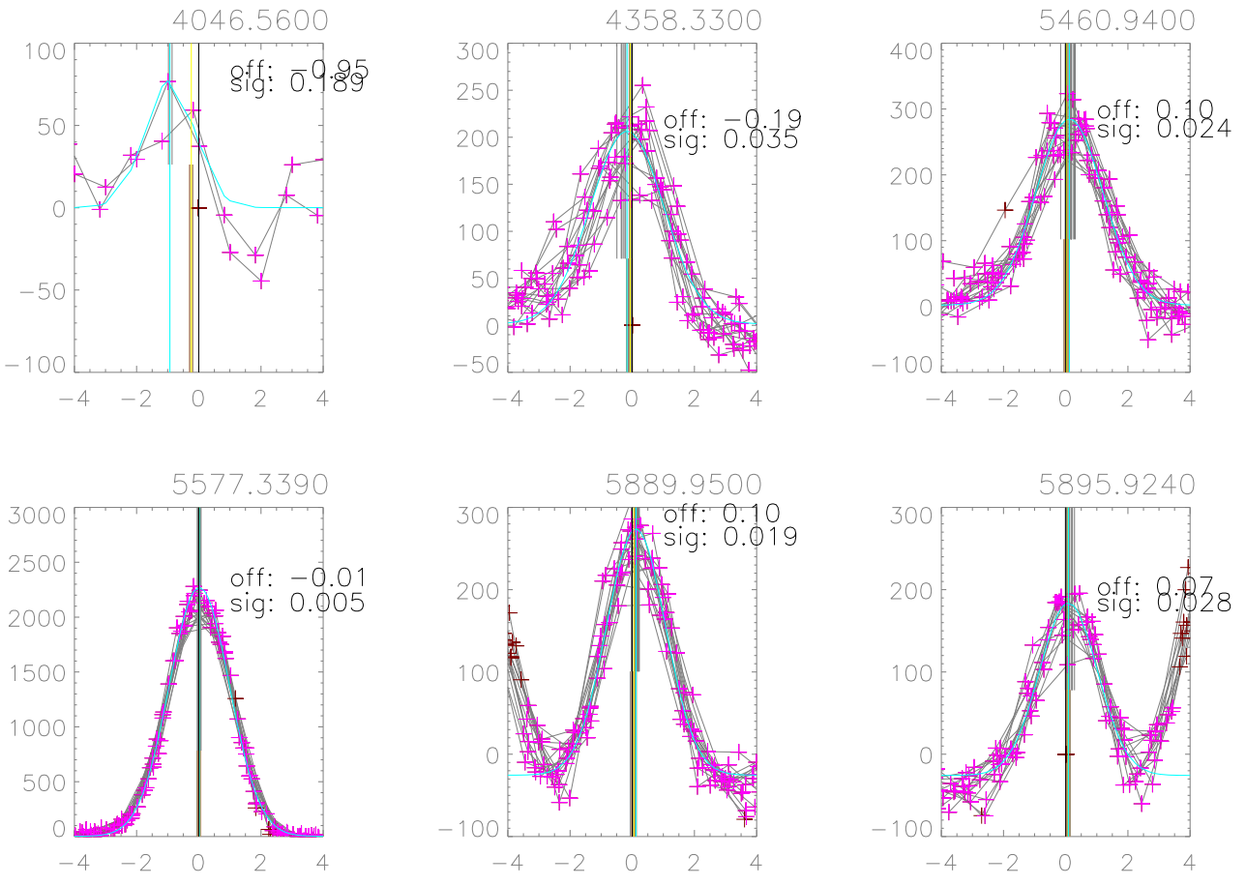

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b1-00050261.fit
9.1
12.7
16.4
0
500
1000
1500
2000
Y [pix]
X [pix]

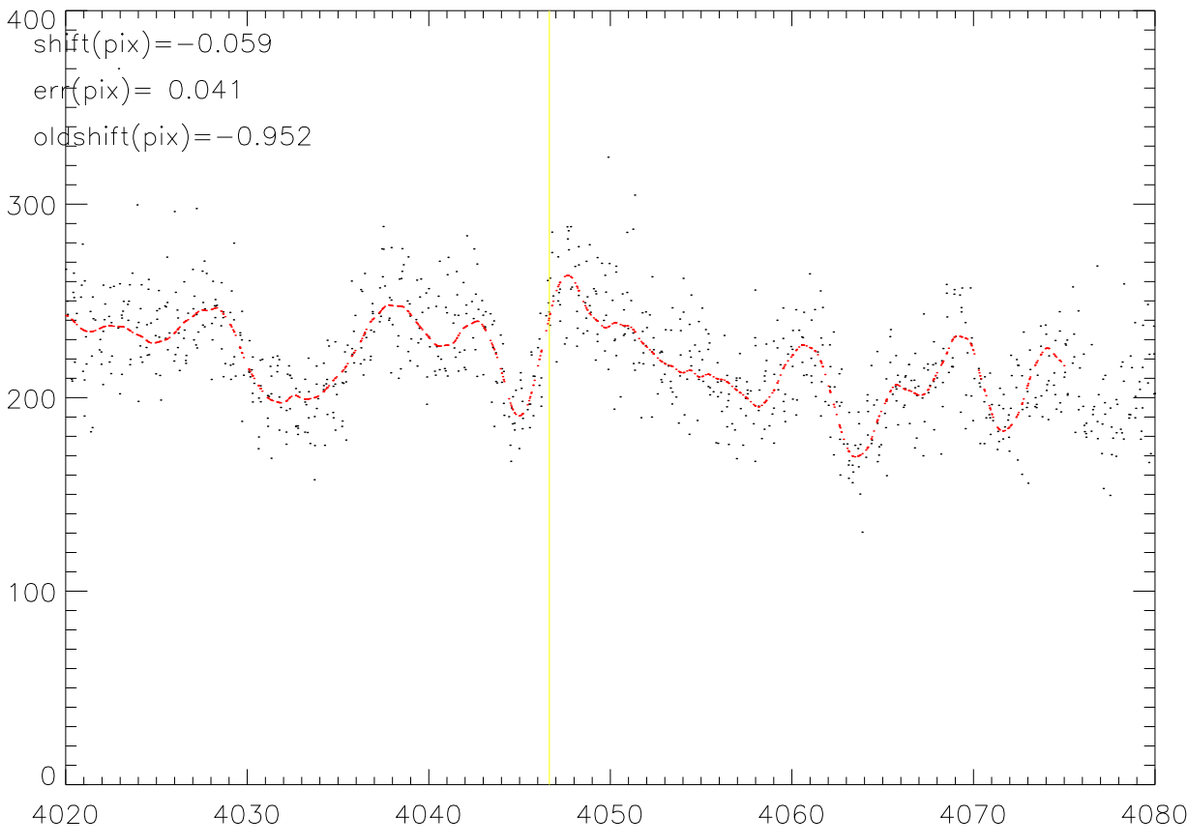

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b1-00050261.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.773
Max value = 15.553
Wed Mar 12 18:38:36 2008

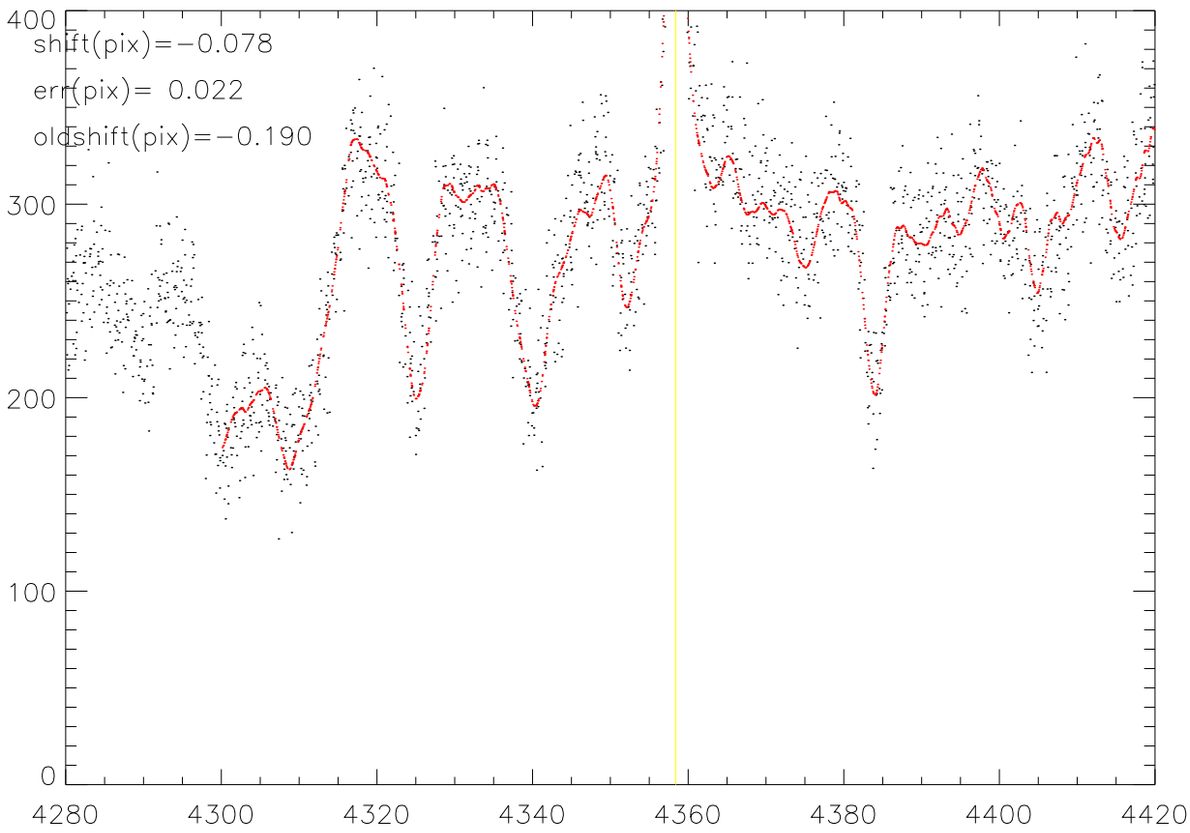

PLATE=2887 MJD=54520 Scattered Light on sdR-b1-00050261.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.7
6.5
0

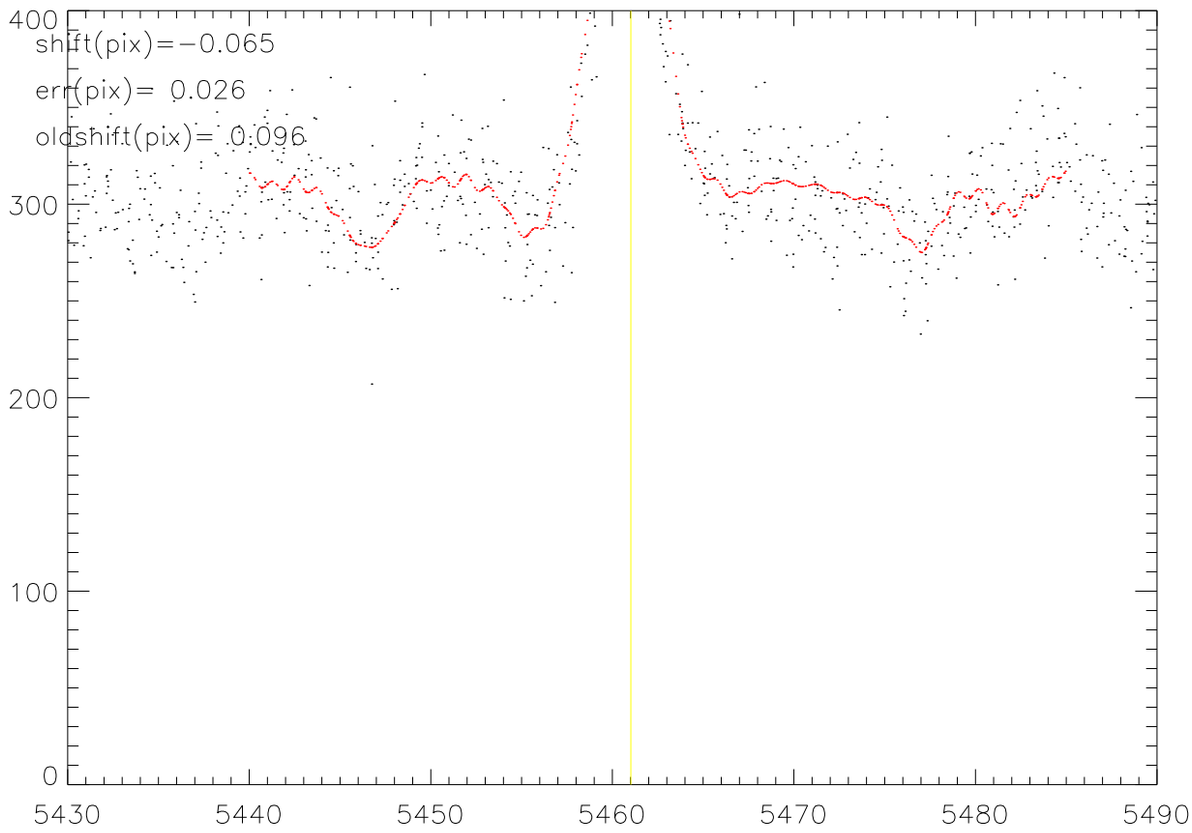

PLATE=2887 MJD=54520 Scattered Light on sdR-b1-00050261.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.299
Max value = 7.678
Wed Mar 12 18:41:03 2008

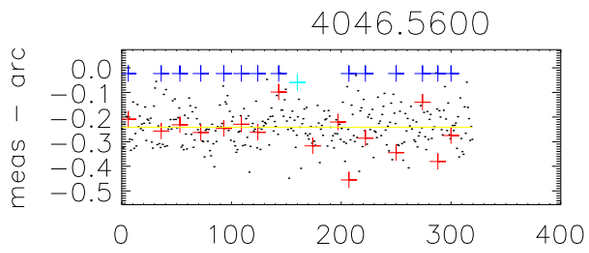

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-b1-00050261.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

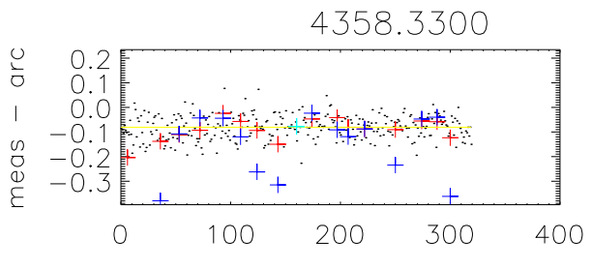

4046.5600
off: −0.95
sig: 0.189
4358.3300
off: −0.19
sig: 0.035
5460.9400
off: 0.10
sig: 0.024
5577.3390
off: −0.01
sig: 0.005
5889.9500
off: 0.10
sig: 0.019
5895.9240
off: 0.07
sig: 0.028

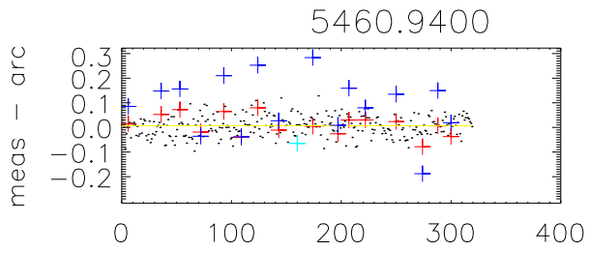

shift(pix)=−0.059
err(pix)= 0.041
oldshift(pix)=−0.952
400
300
200
100
0
4020
4030
4040
4050
4060
4070
4080

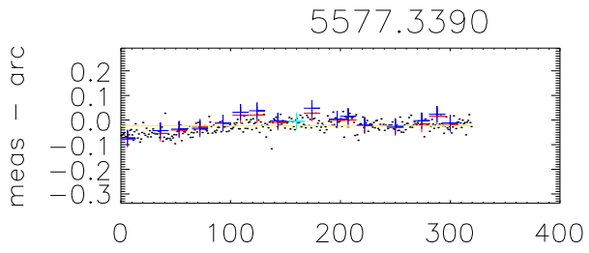

shift(pix)=−0.078
err(pix)= 0.022
oldshift(pix)=−0.190
400
300
200
100
0
4280
4300
4320
4340
4360
4380
4400
4420

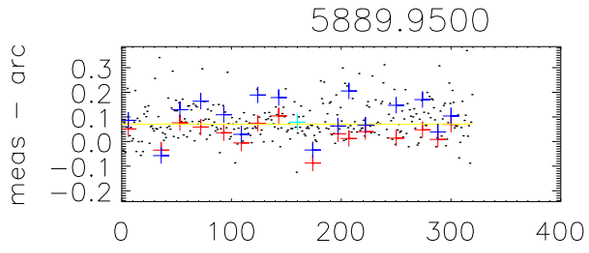

shift(pix)=−0.065
err(pix)= 0.026
oldshift(pix)= 0.096
400
300
200
100
0
5430
5440
5450
5460
5470
5480
5490

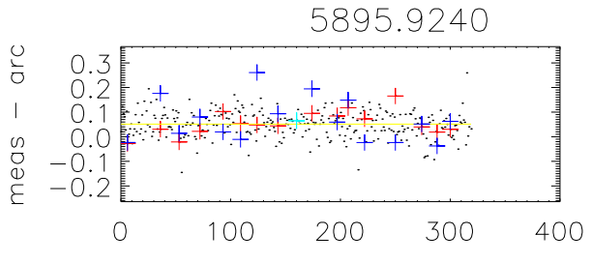

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

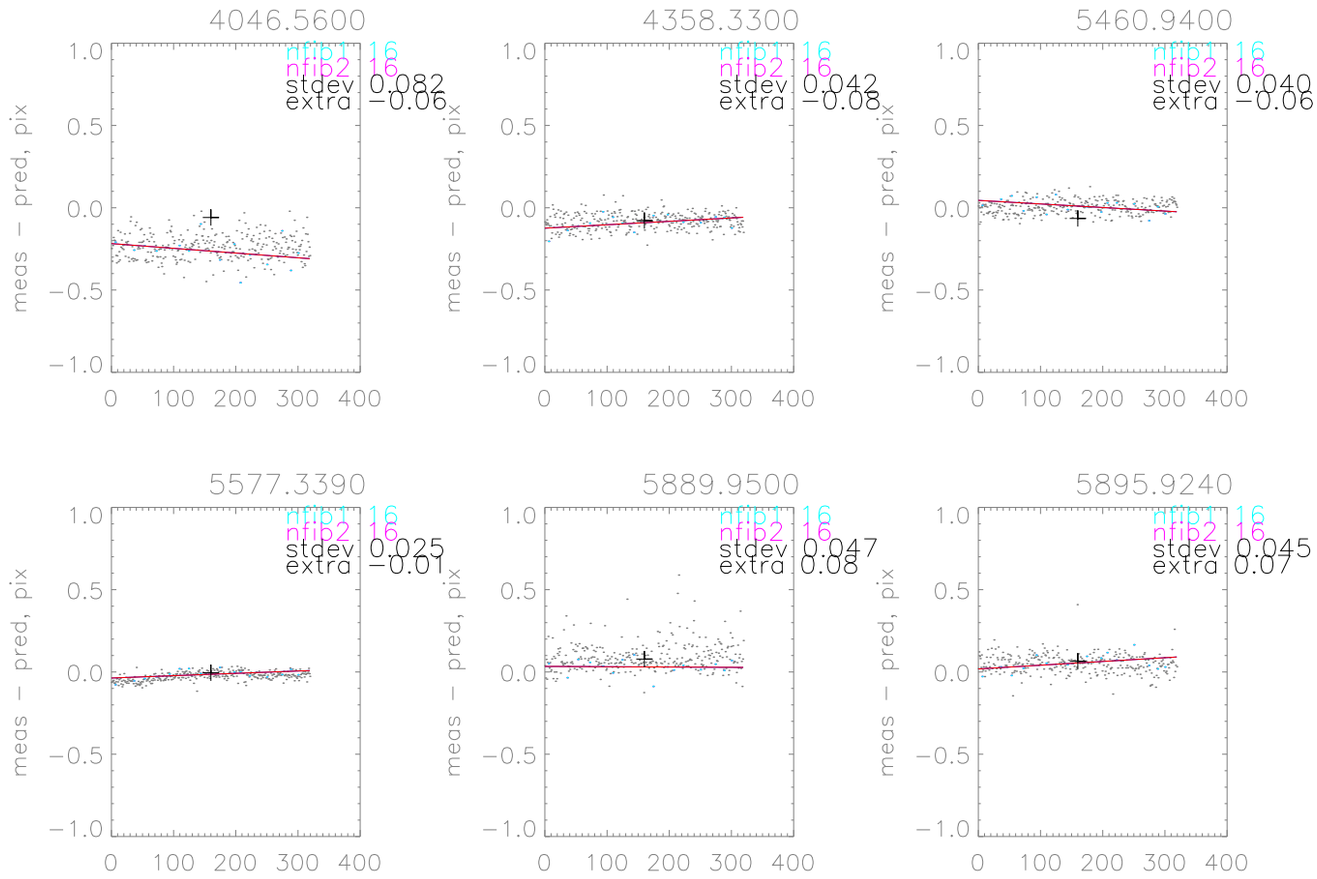

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

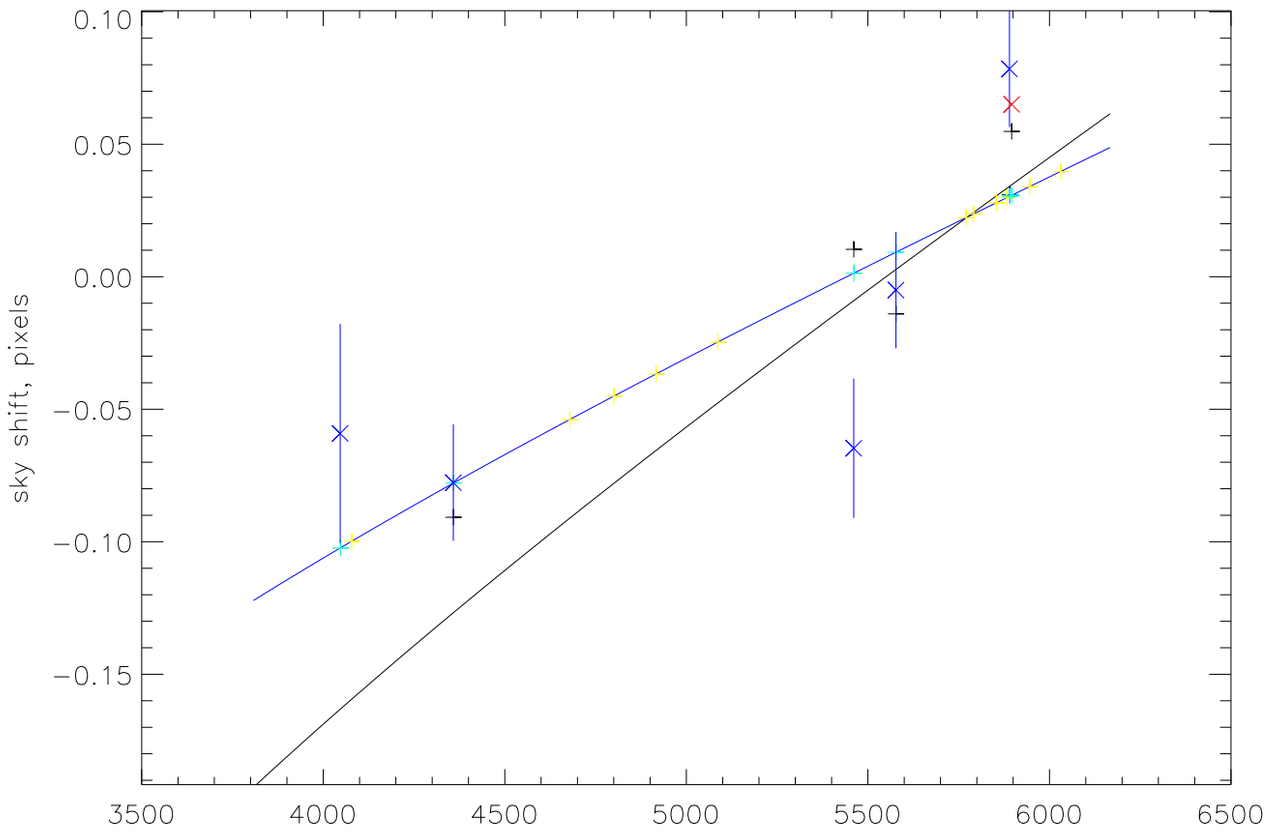

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

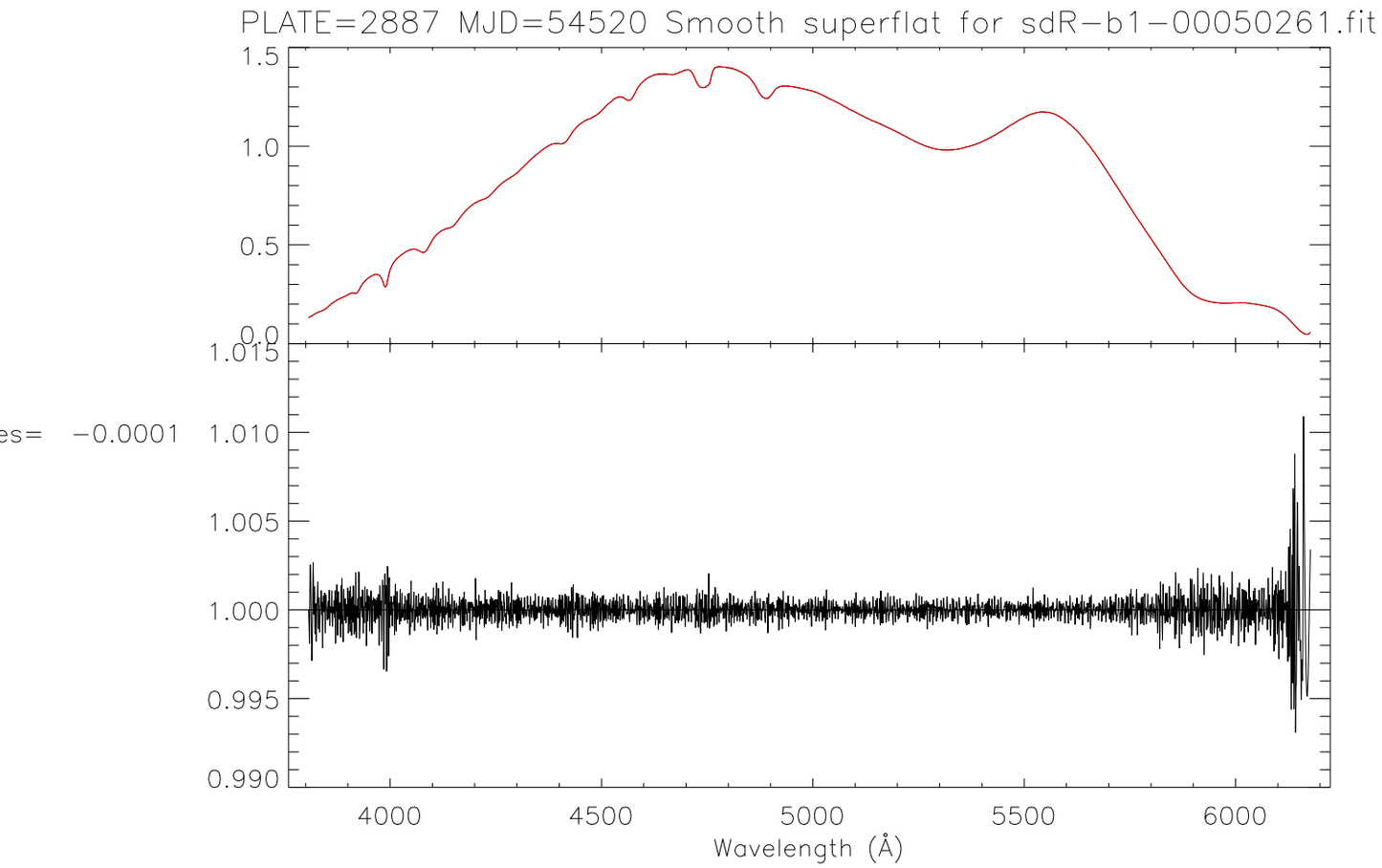

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

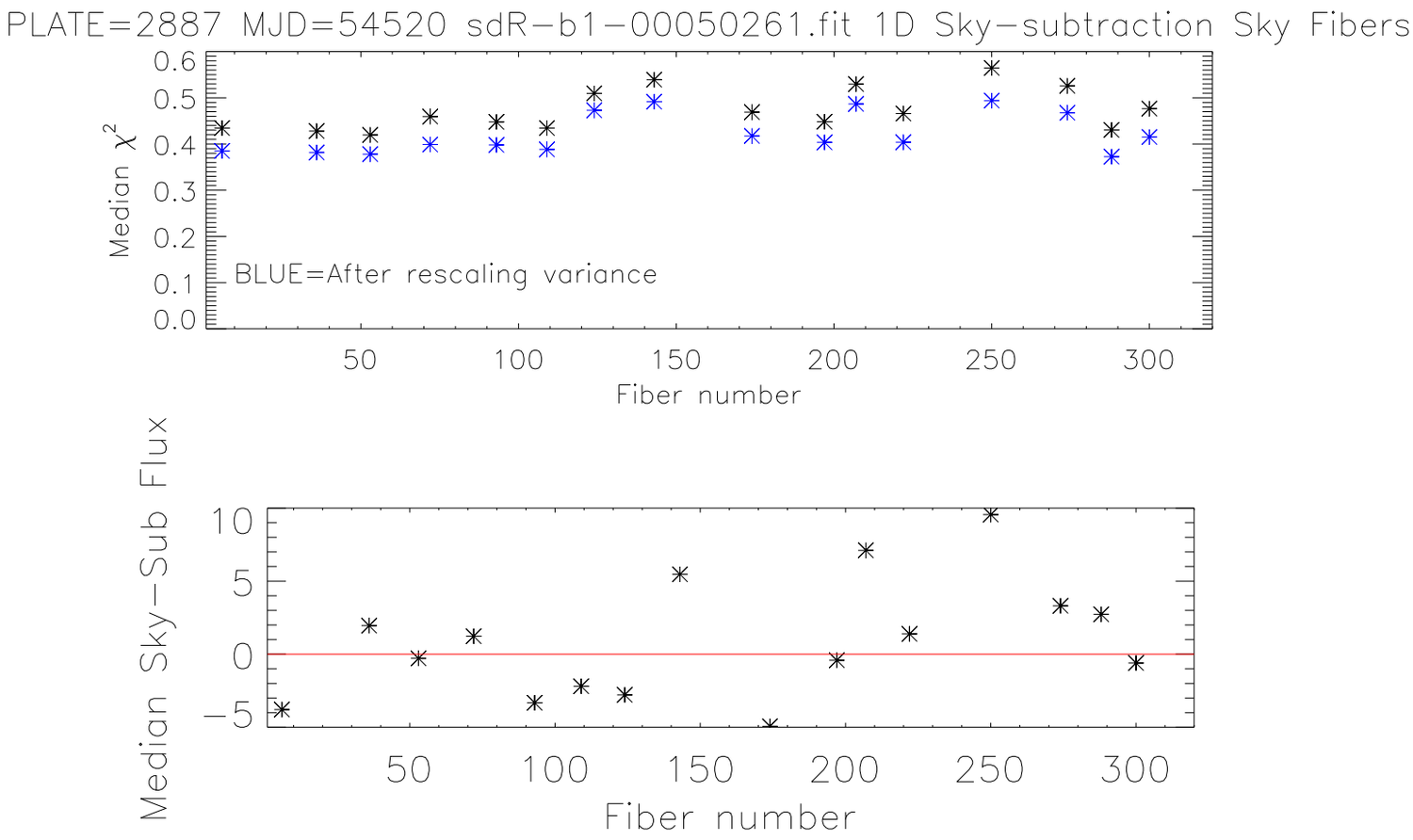

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

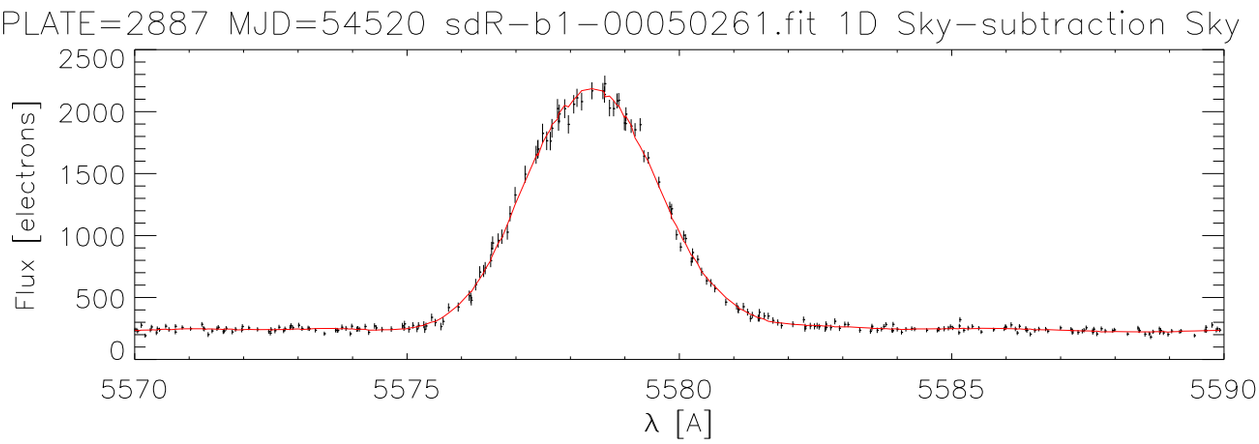

4046.5600
nfib1 16
nfib2 16
stdev 0.082
extra −0.06
4358.3300
nfib1 16
nfib2 16
stdev 0.042
extra −0.08
5460.9400
nfib1 16
nfib2 16
stdev 0.040
extra −0.06
5577.3390
nfib1 16
nfib2 16
stdev 0.025
extra −0.01
5889.9500
nfib1 16
nfib2 16
stdev 0.047
extra 0.08
5895.9240
nfib1 16
nfib2 16
stdev 0.045
extra 0.07
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

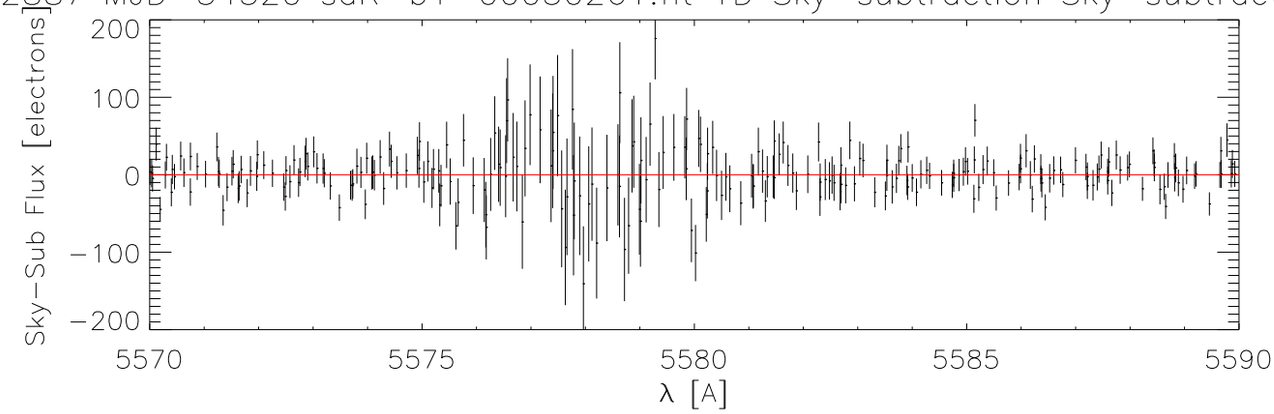

0.10
0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

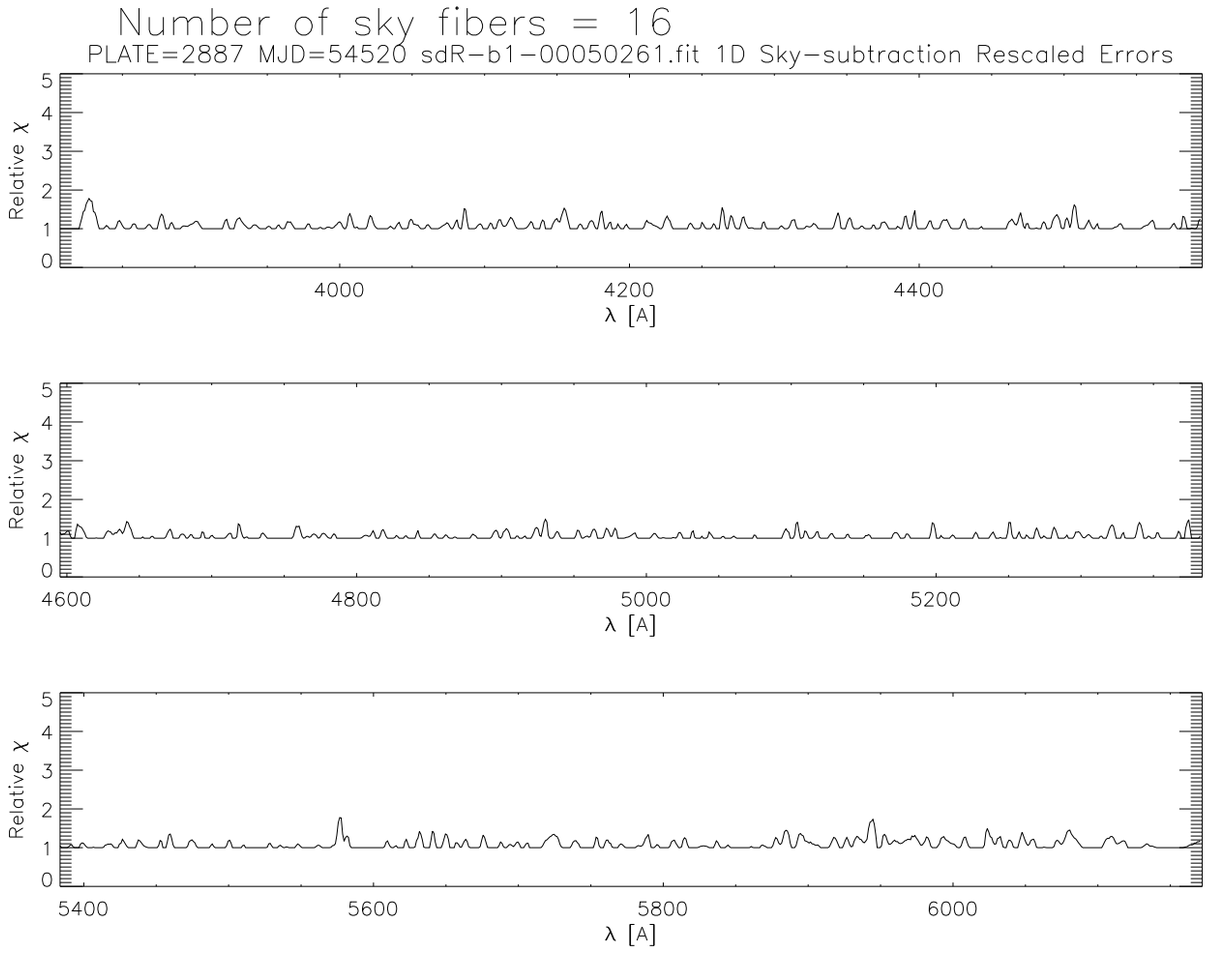

PLATE=2887 MJD=54520 Smooth superflat for sdR-b1-00050261.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

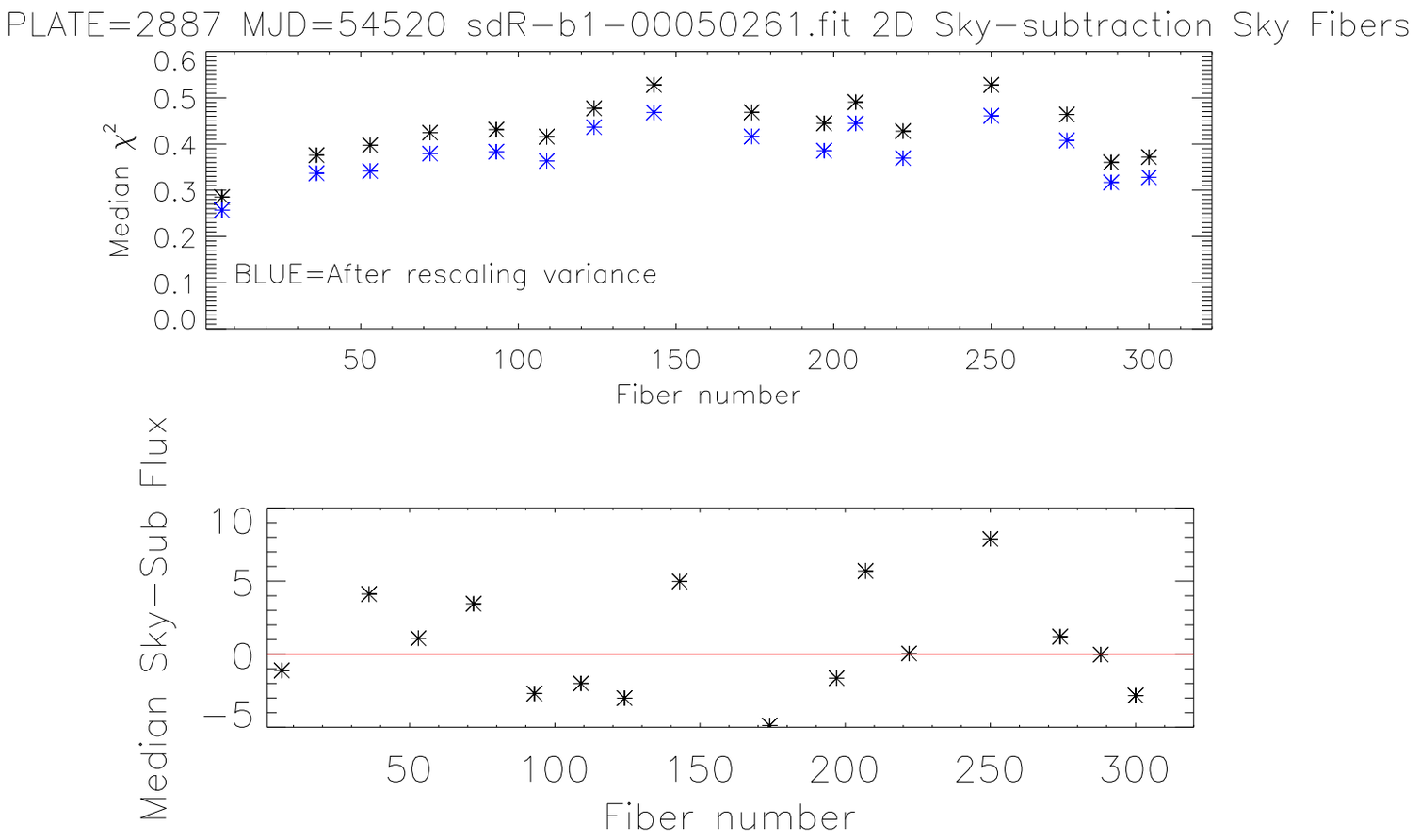
es= −0.0001

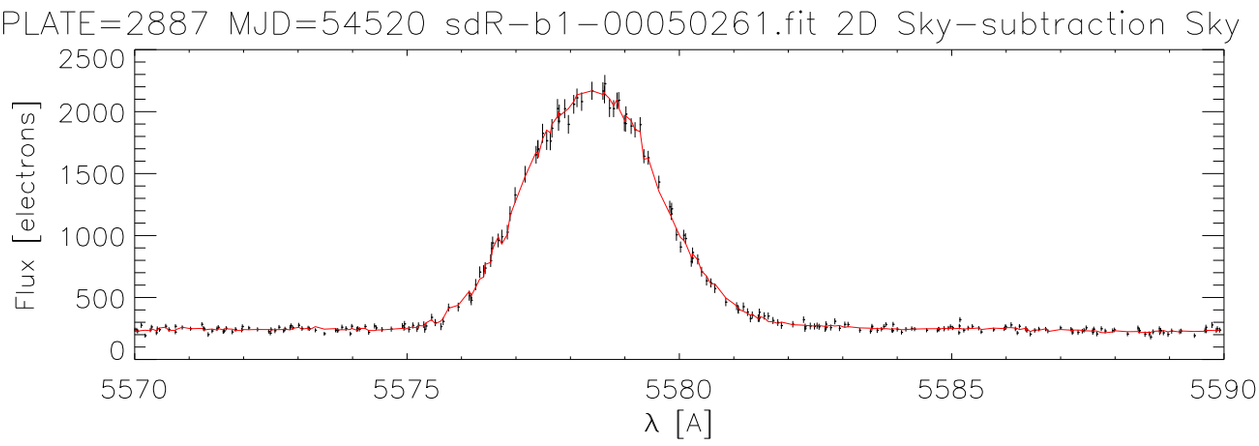

PLATE=2887 MJD=54520 sdR-b1-00050261.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

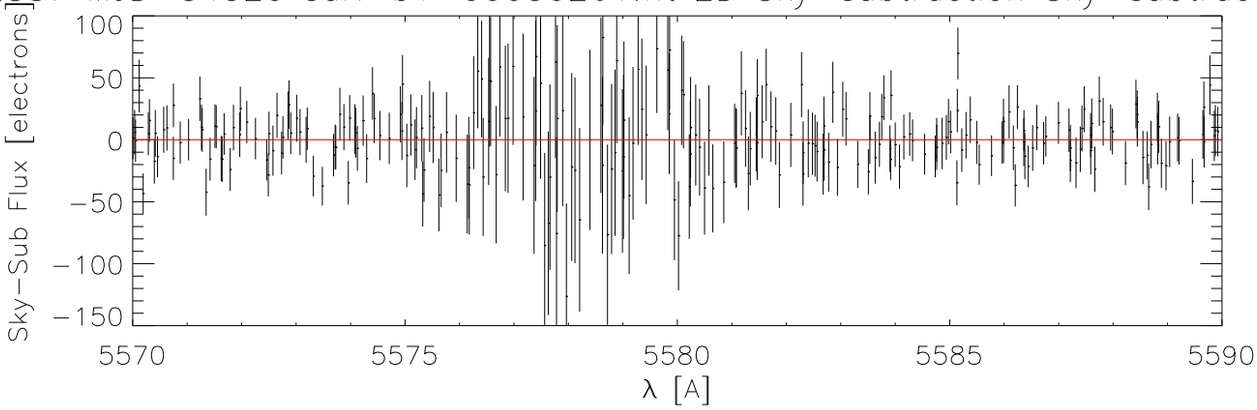

PLATE=2887 MJD=54520 sdR-b1-00050261.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

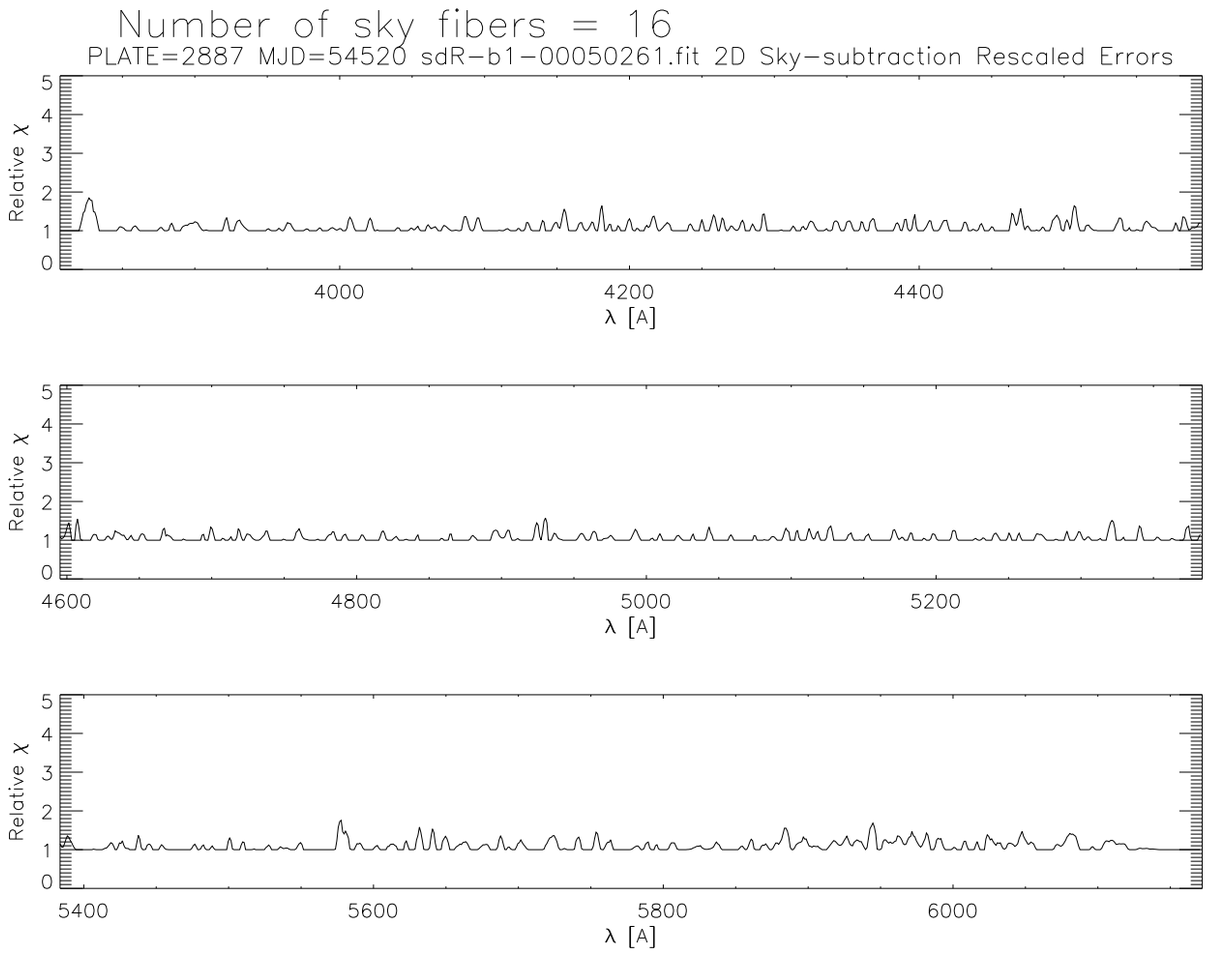

PLATE=2887 MJD=54520 sdR-b1-00050261.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

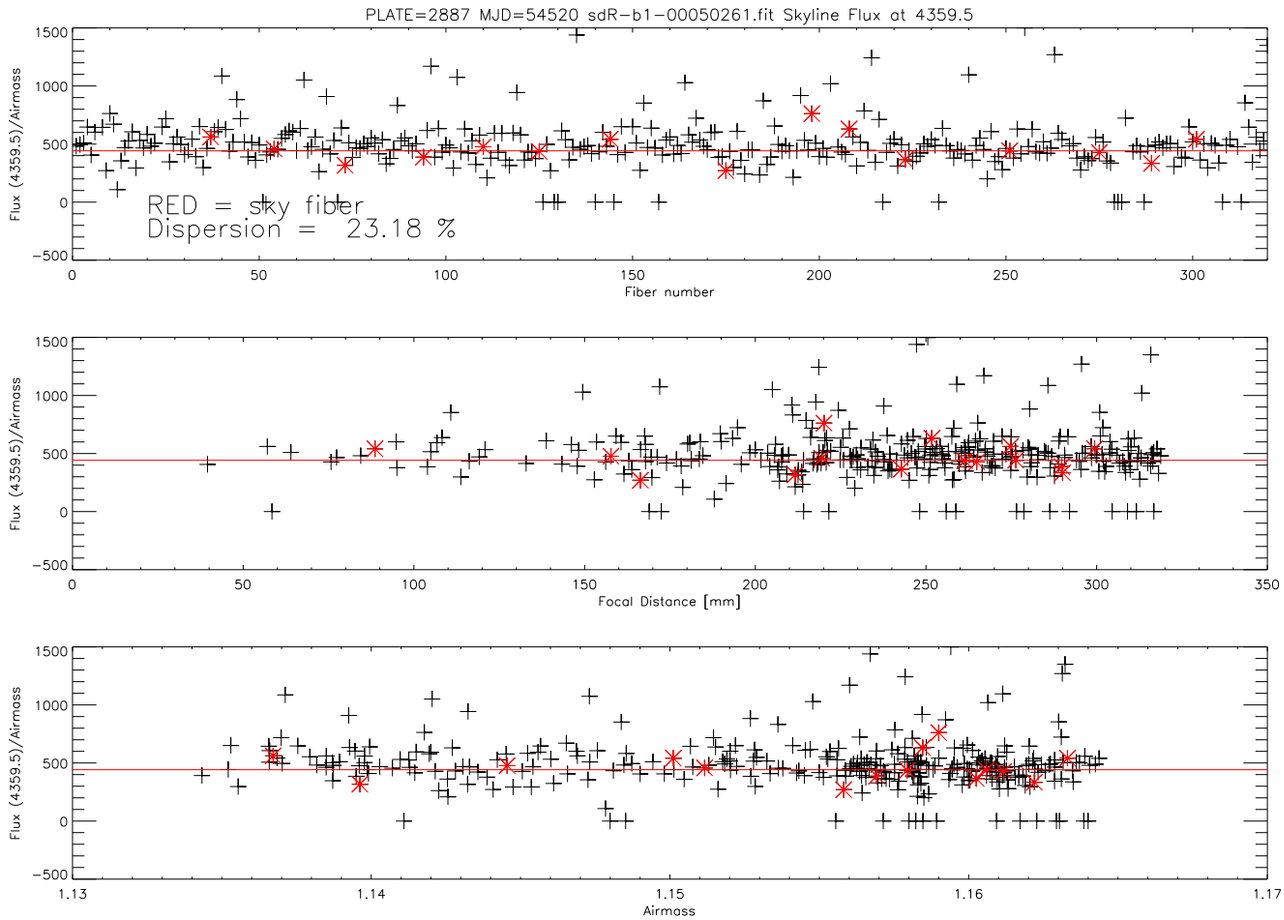

Number of sky fibers = 16
PLATE=2887 MJD=54520 sdR-b1-00050261.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

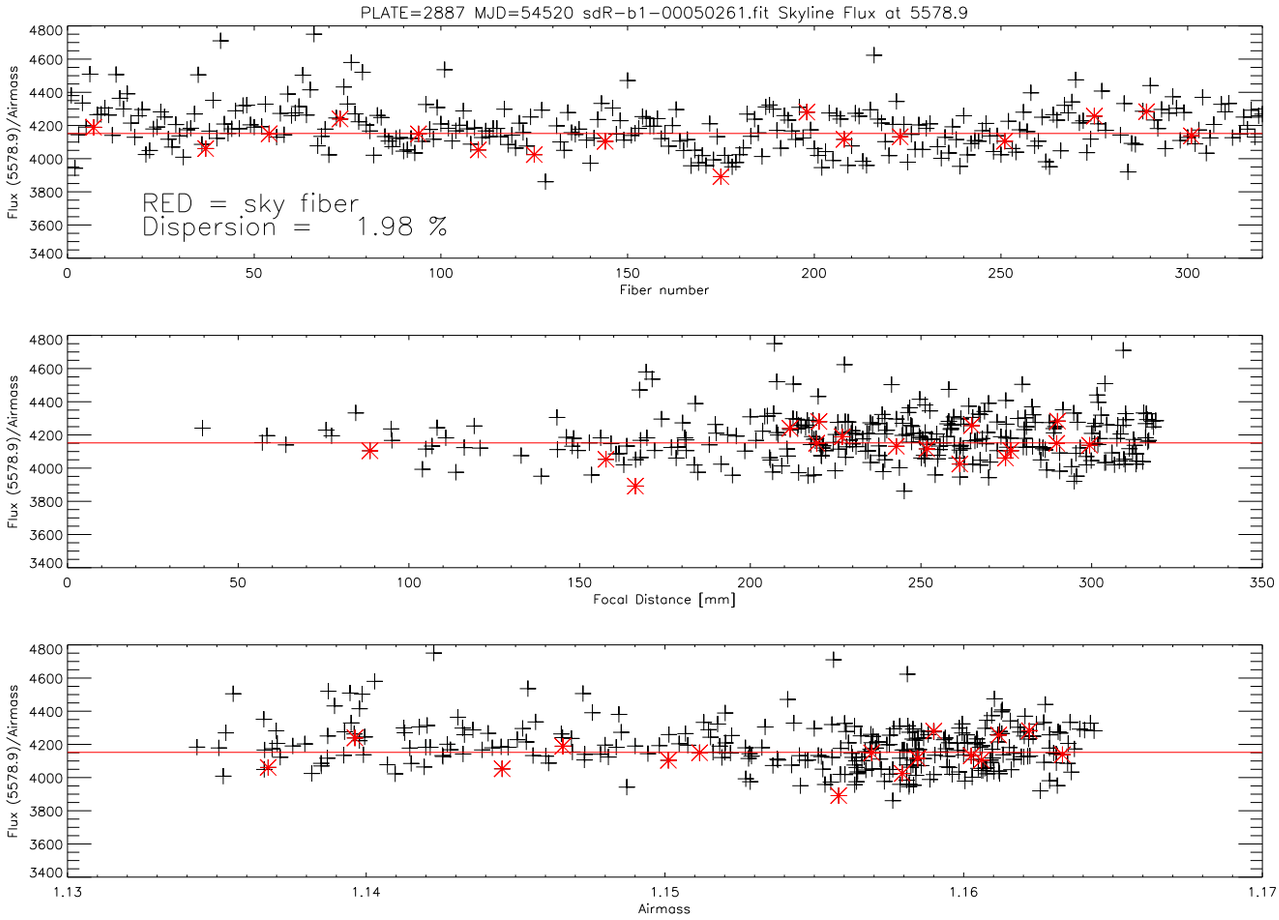

PLATE=2887 MJD=54520 sdR-b1-00050261.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

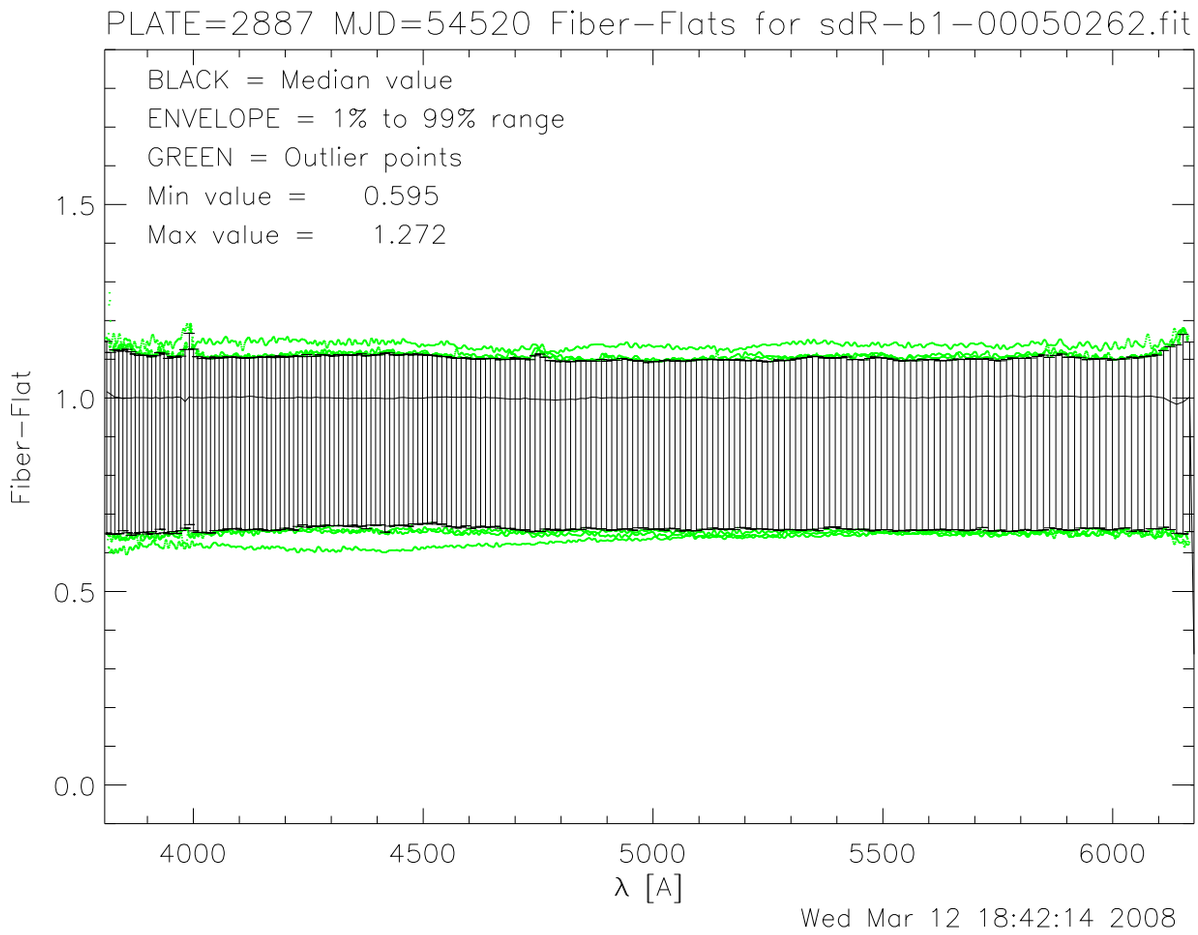

PLATE=2887 MJD=54520 sdR-b1-00050261.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

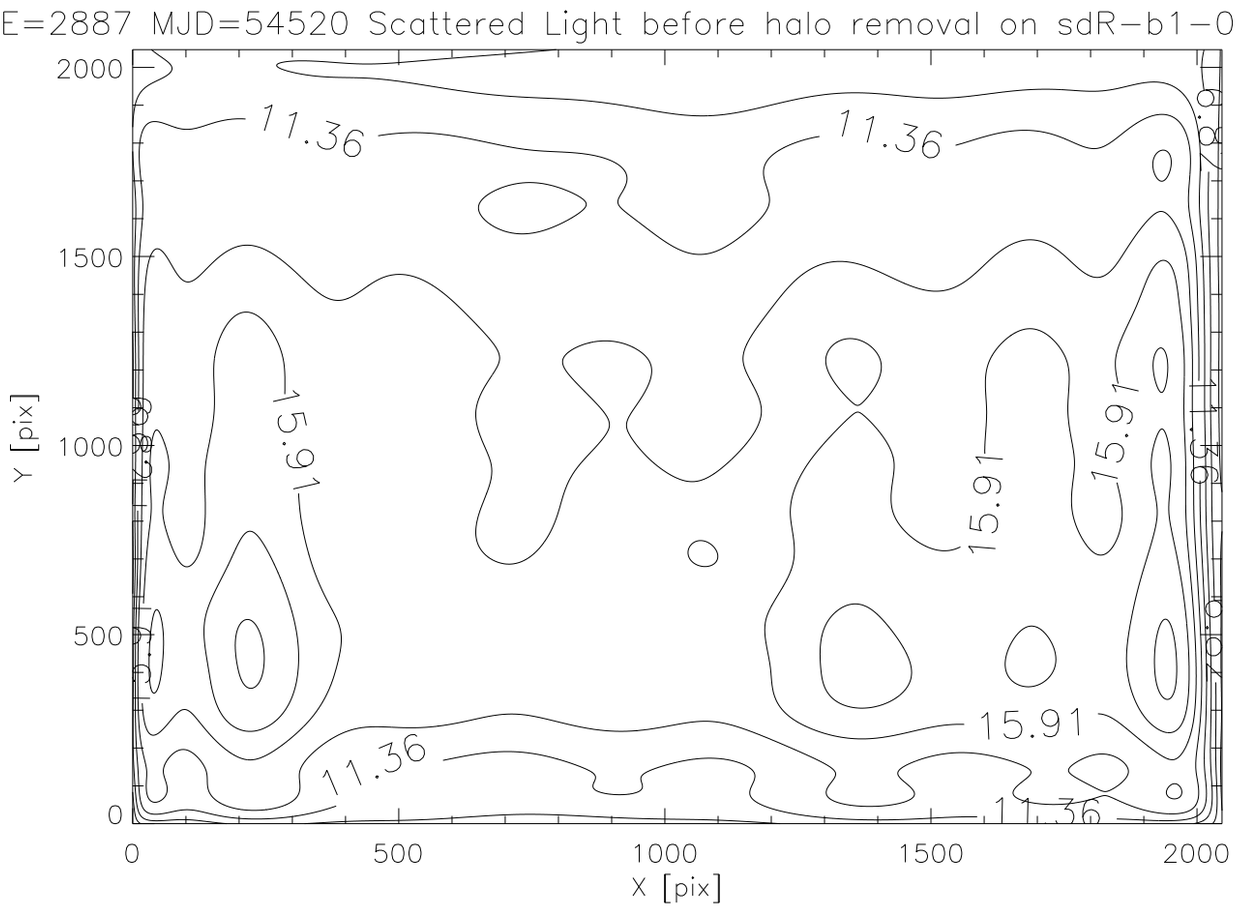

PLATE=2887 MJD=54520 sdR-b1-00050261.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

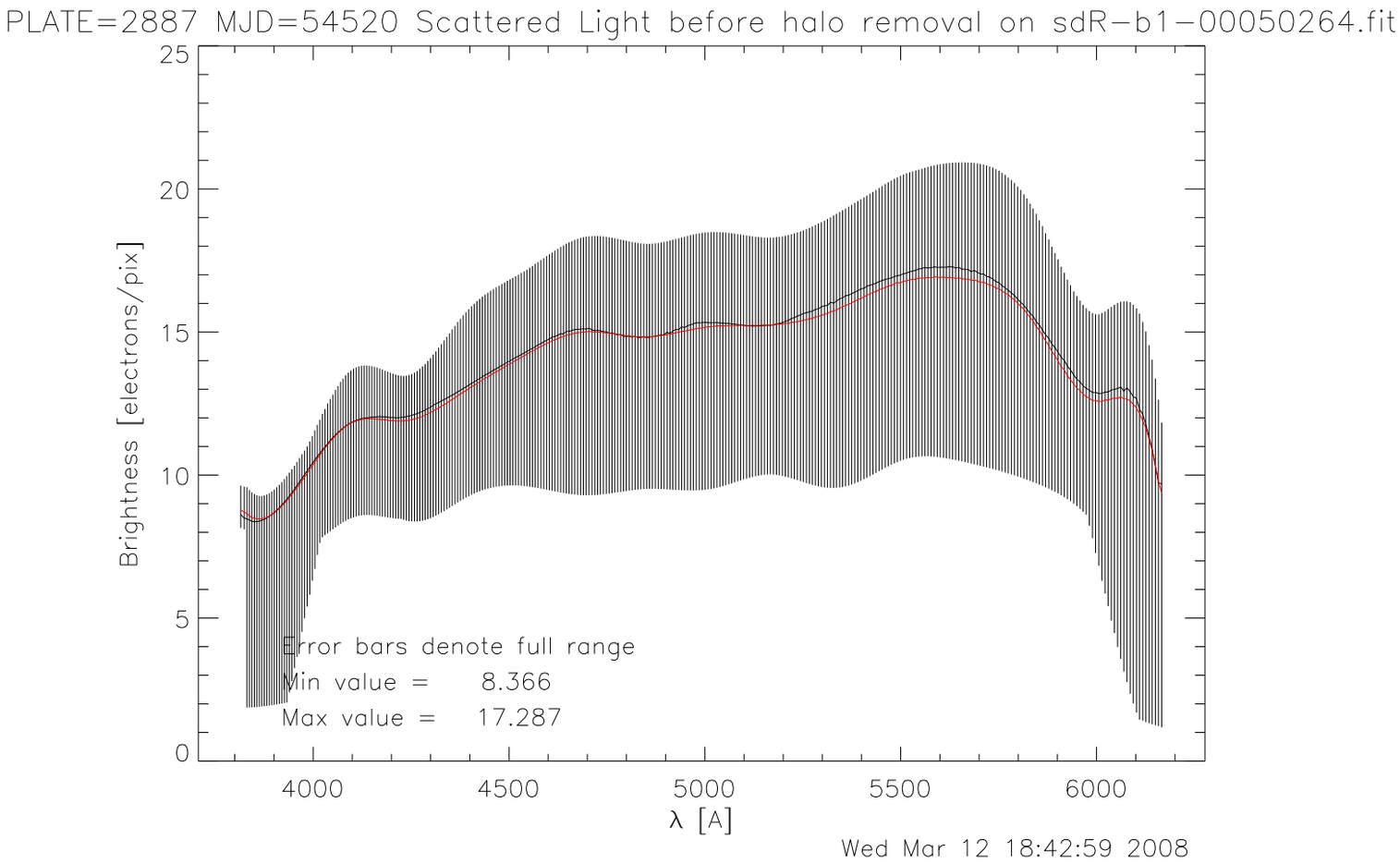

Number of sky fibers = 16
PLATE=2887 MJD=54520 sdR-b1-00050261.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

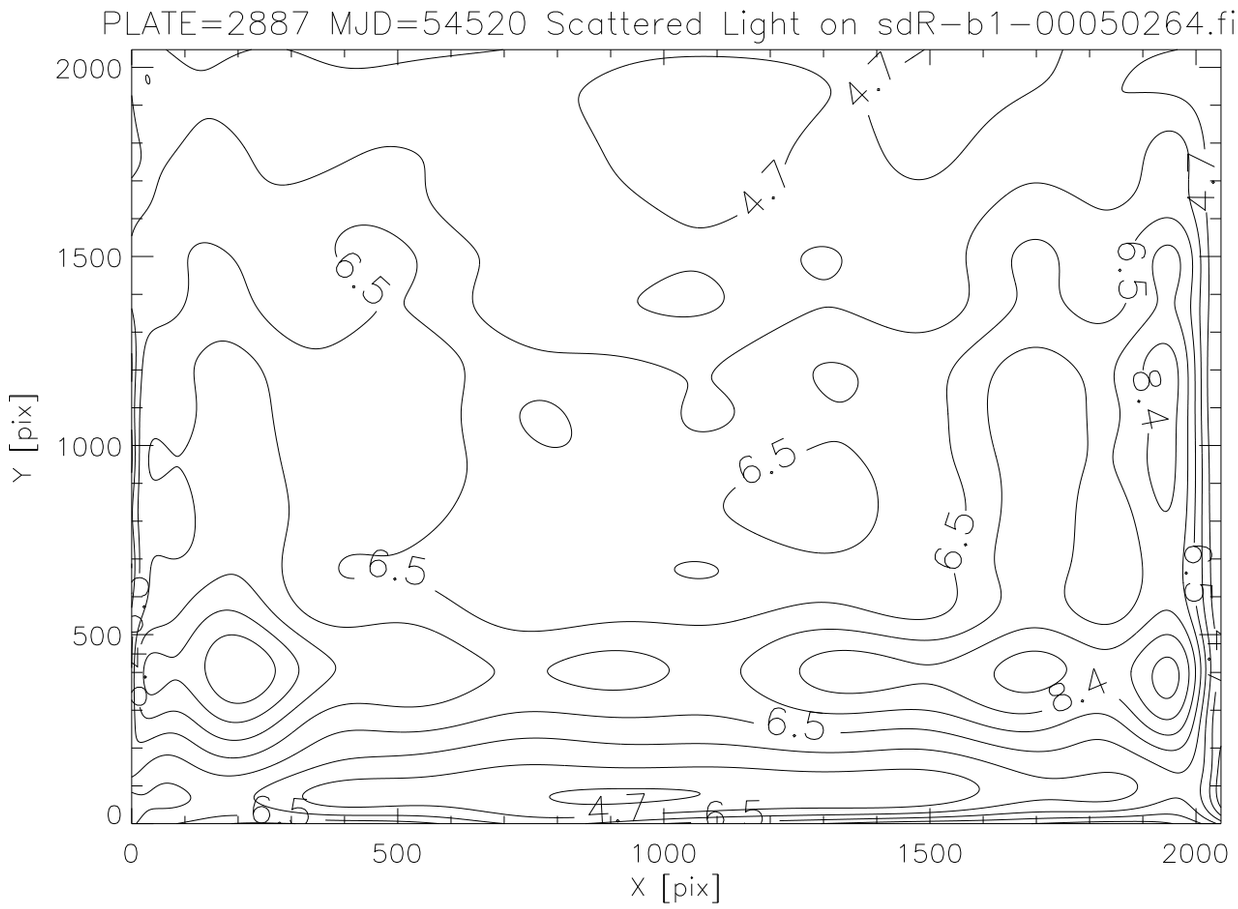

PLATE=2887 MJD=54520 sdR-b1-00050261.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 23.18 %
Fiber number
Focal Distance [mm]
Airmass

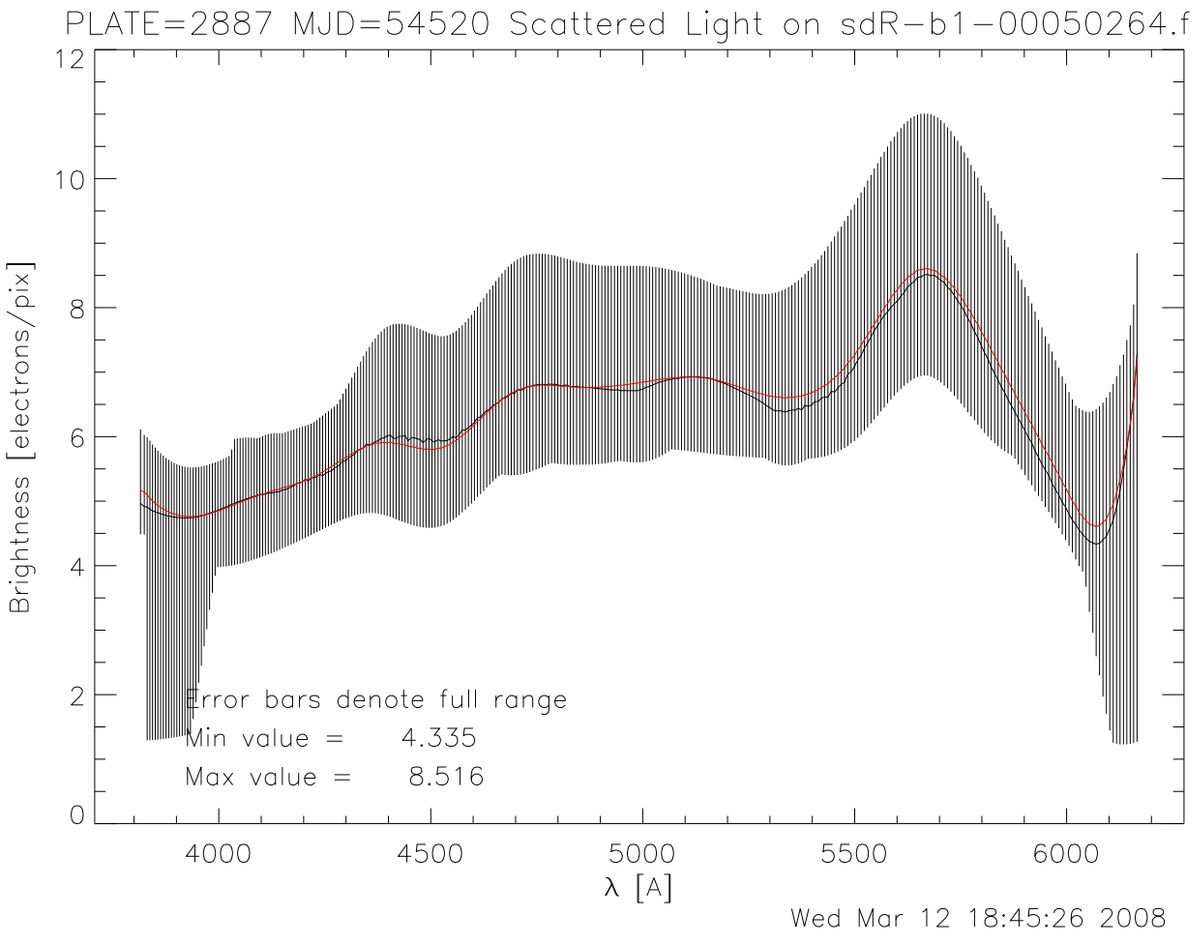

PLATE=2887 MJD=54520 sdR-b1-00050261.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 1.98 %
Fiber number
Focal Distance [mm]
Airmass

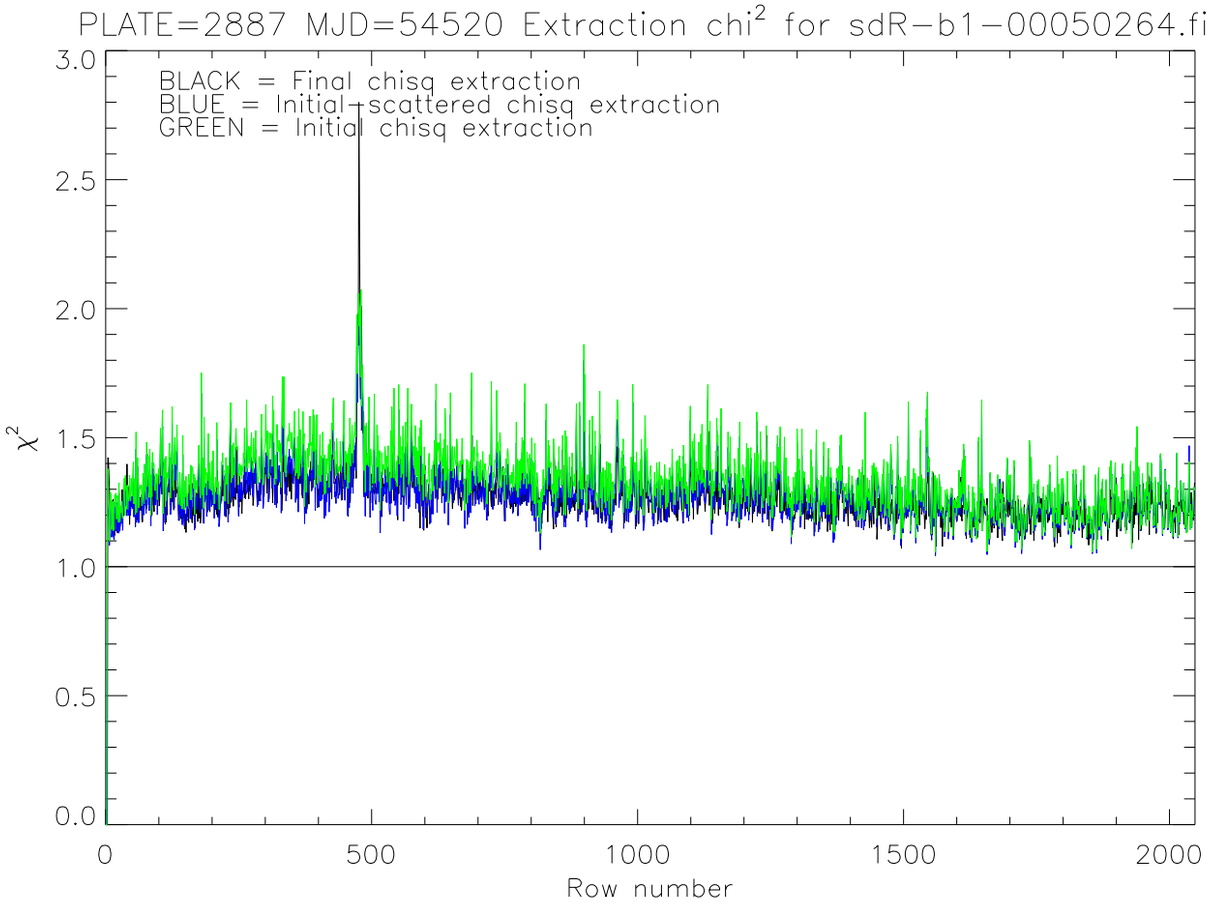

PLATE=2887 MJD=54520 Fiber-Flats for sdR-b1-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.595
Max value = 1.272
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:42:14 2008

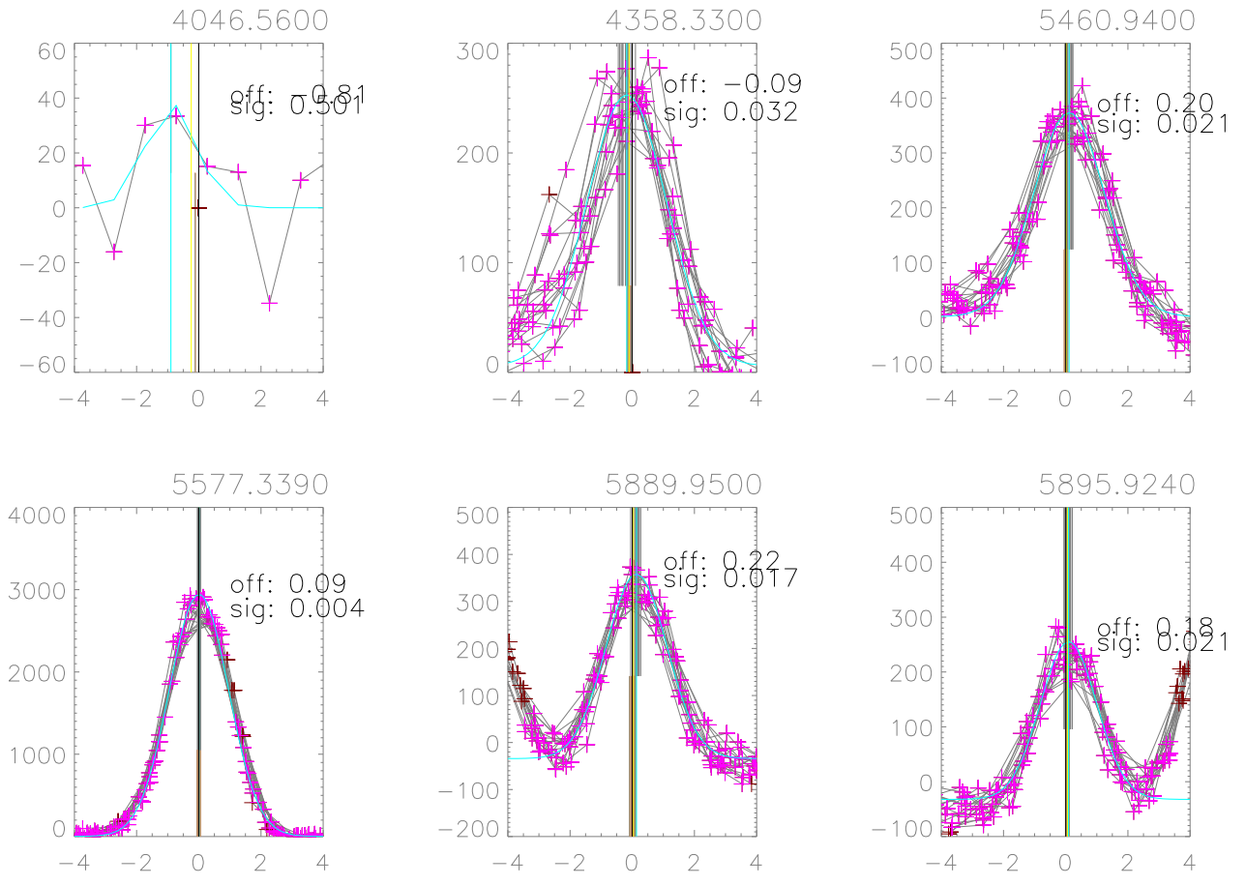

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR−b1−00050264.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
11.36
15.91

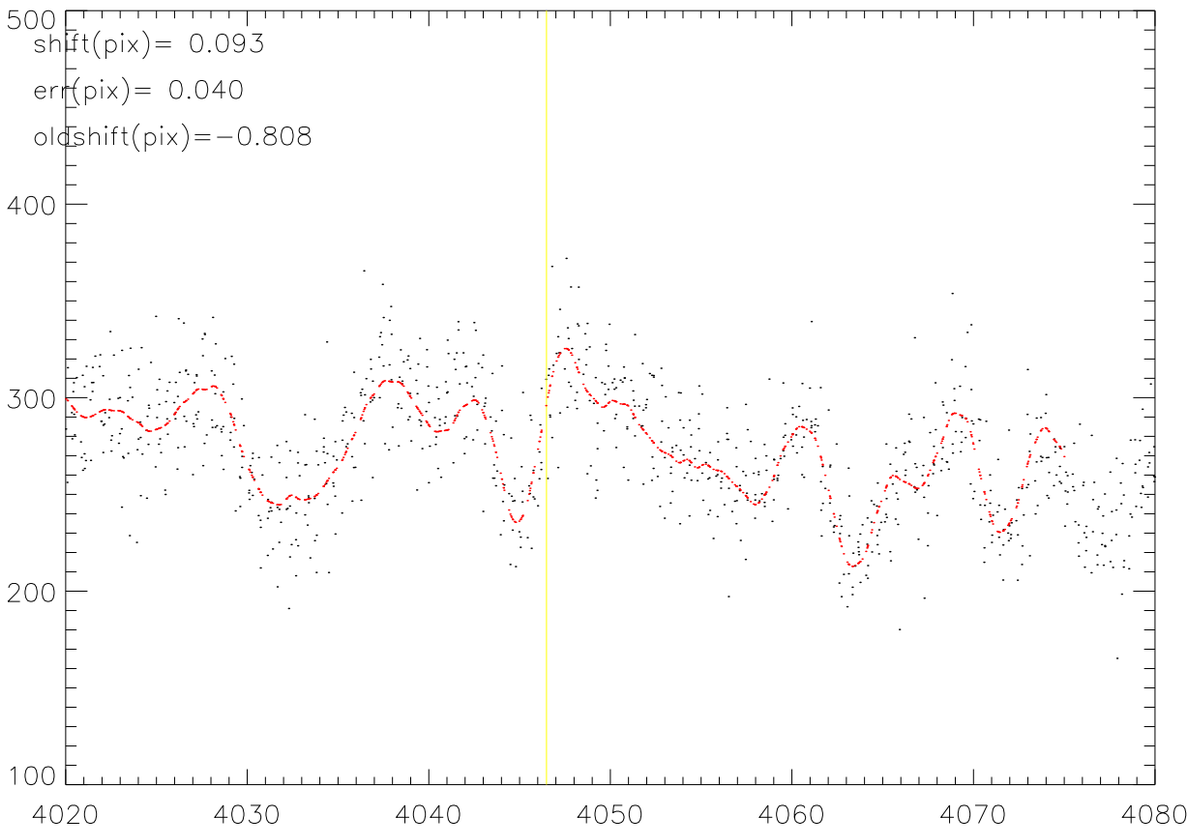

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b1-00050264.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.366
Max value = 17.287
Wed Mar 12 18:42:59 2008

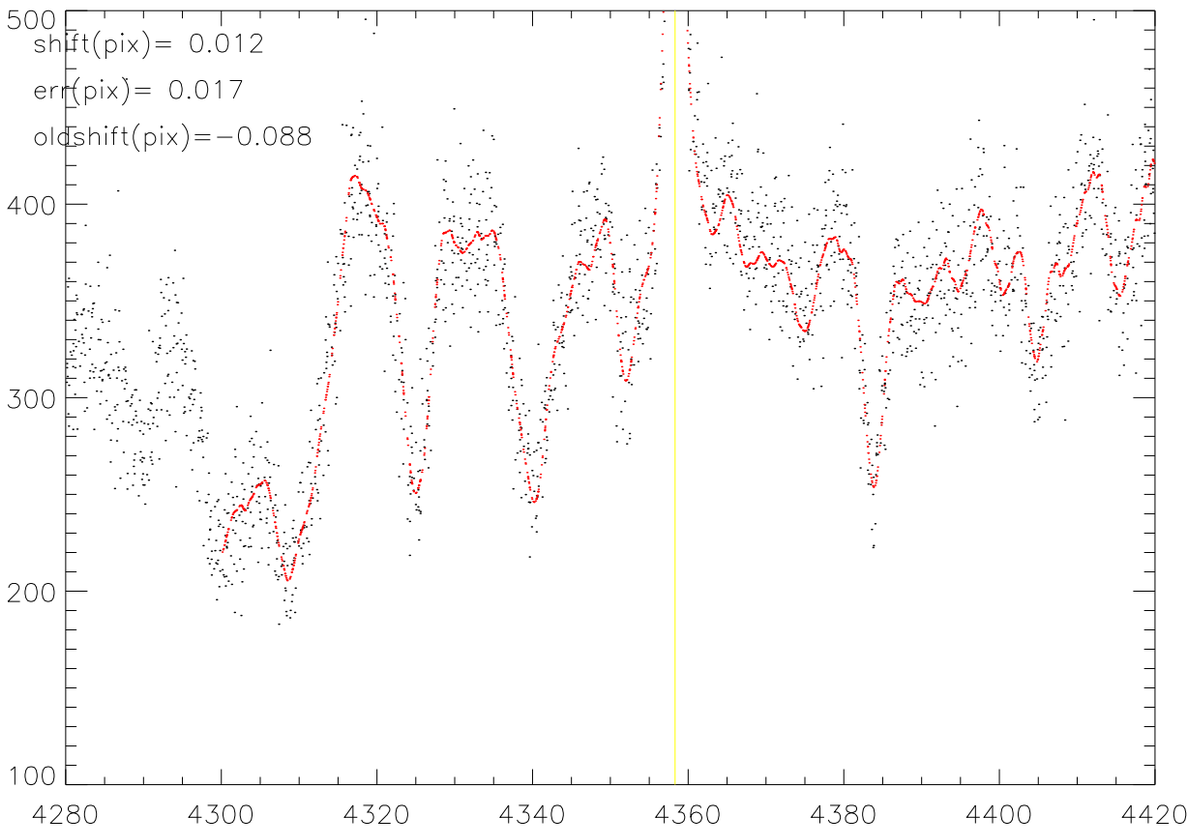

PLATE=2887 MJD=54520 Scattered Light on sdR-b1-00050264.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.7
6.5
8.4

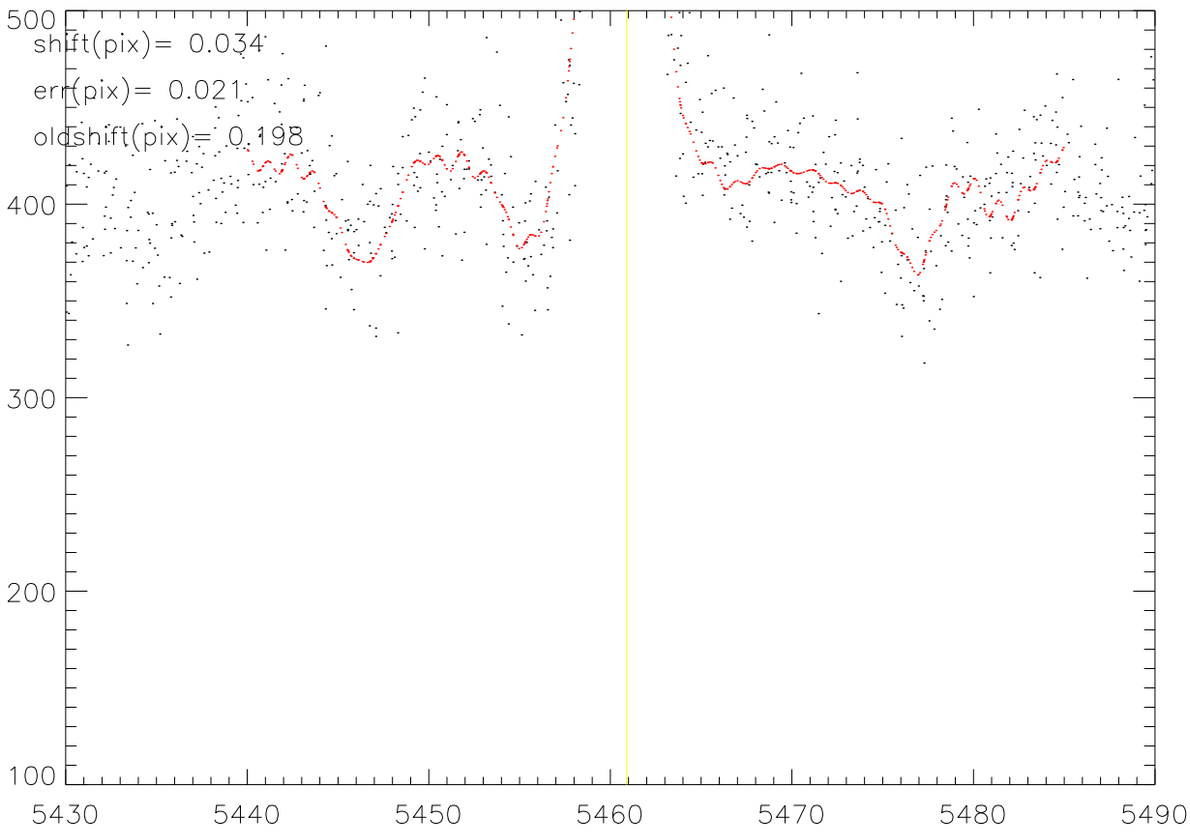

PLATE=2887 MJD=54520 Scattered Light on sdR-b1-00050264.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.335
Max value = 8.516
Wed Mar 12 18:45:26 2008

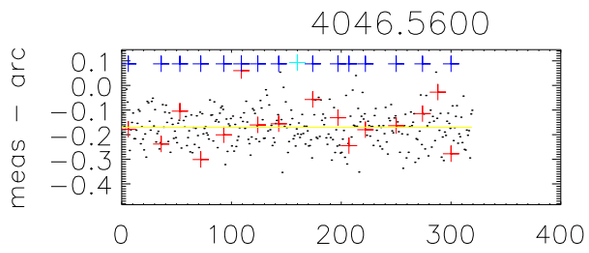

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-b1-00050264.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

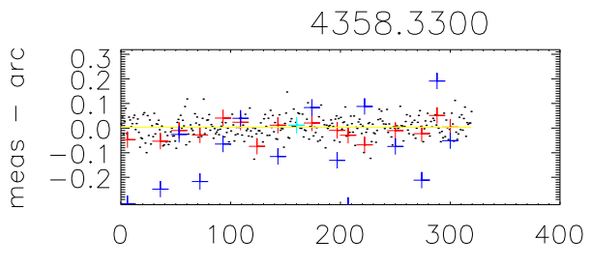

4046.5600
off: −0.81
sig: 0.501
4358.3300
off: −0.09
sig: 0.032
5460.9400
off: 0.20
sig: 0.021
5577.3390
off: 0.09
sig: 0.004
5889.9500
off: 0.22
sig: 0.017
5895.9240
off: 0.18
sig: 0.021

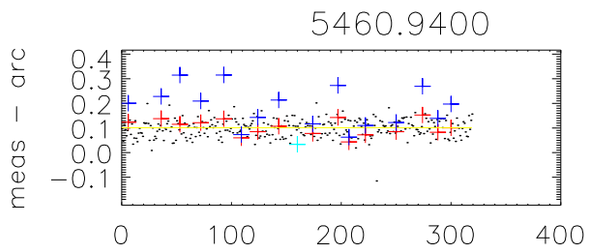

shift(pix)= 0.093
err(pix)= 0.040
oldshift(pix)=−0.808
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

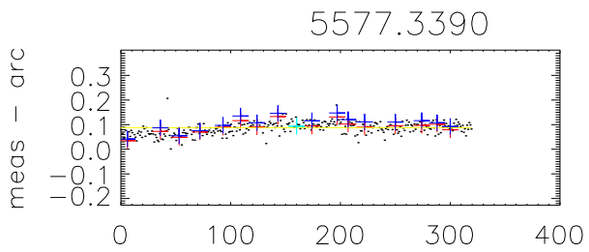

shift(pix)= 0.012
err(pix)= 0.017
oldshift(pix)=−0.088
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

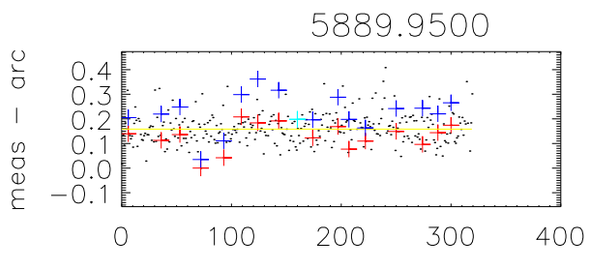

shift(pix)= 0.034
err(pix)= 0.021
oldshift(pix)= 0.198
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

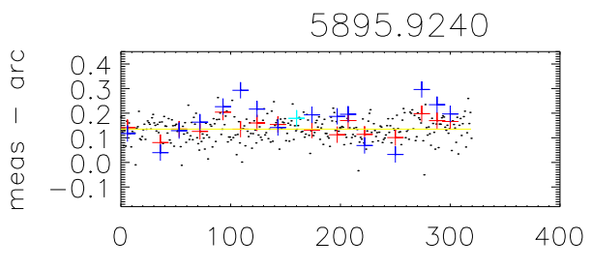

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

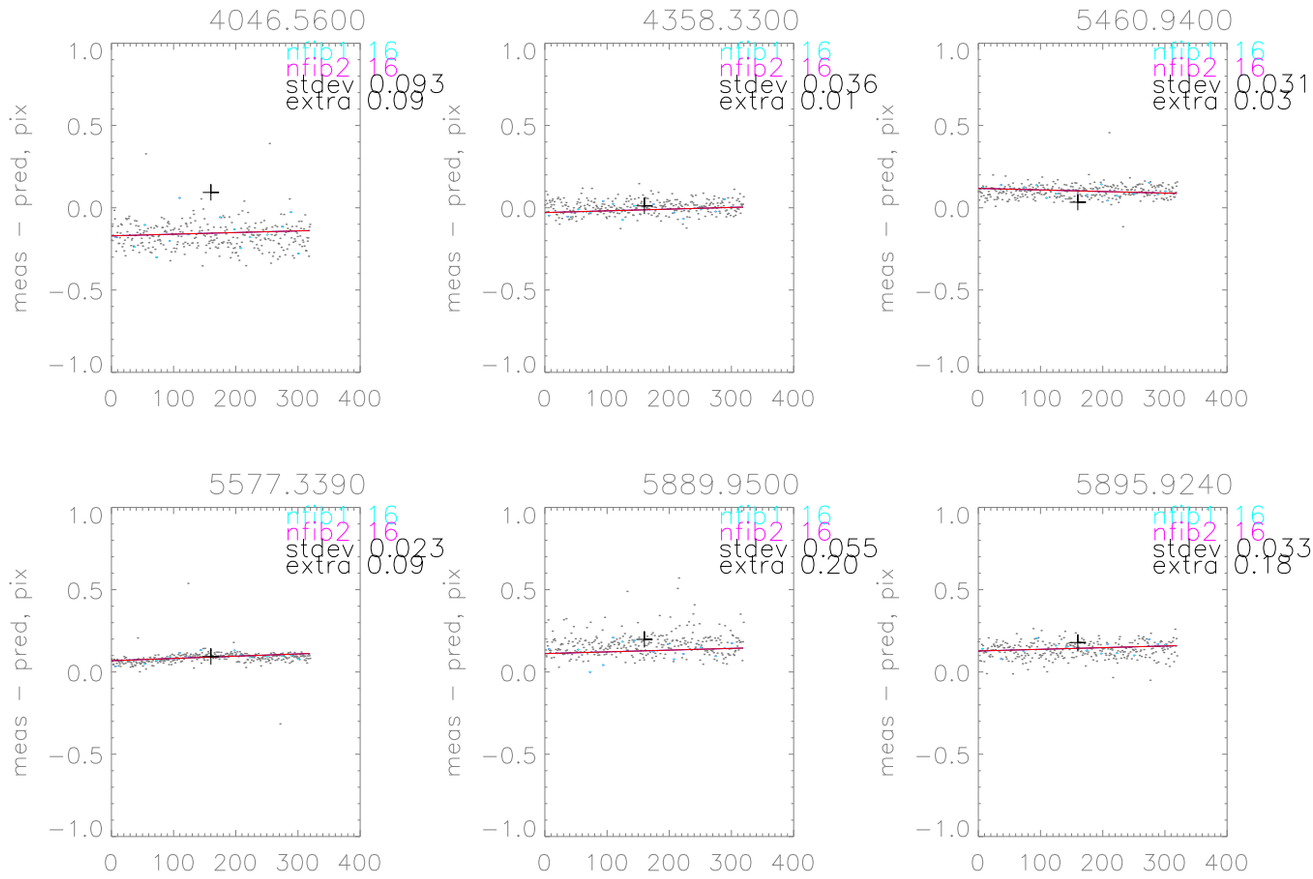

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

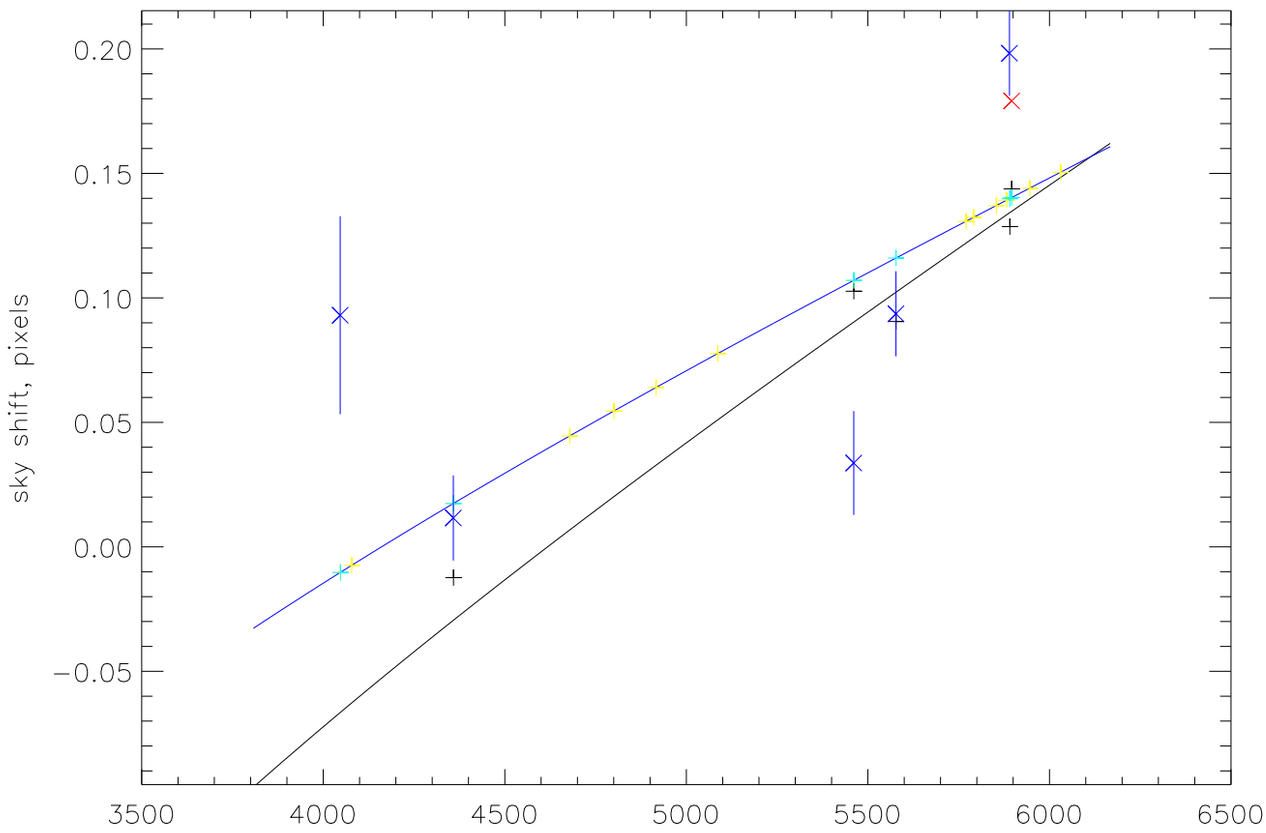

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

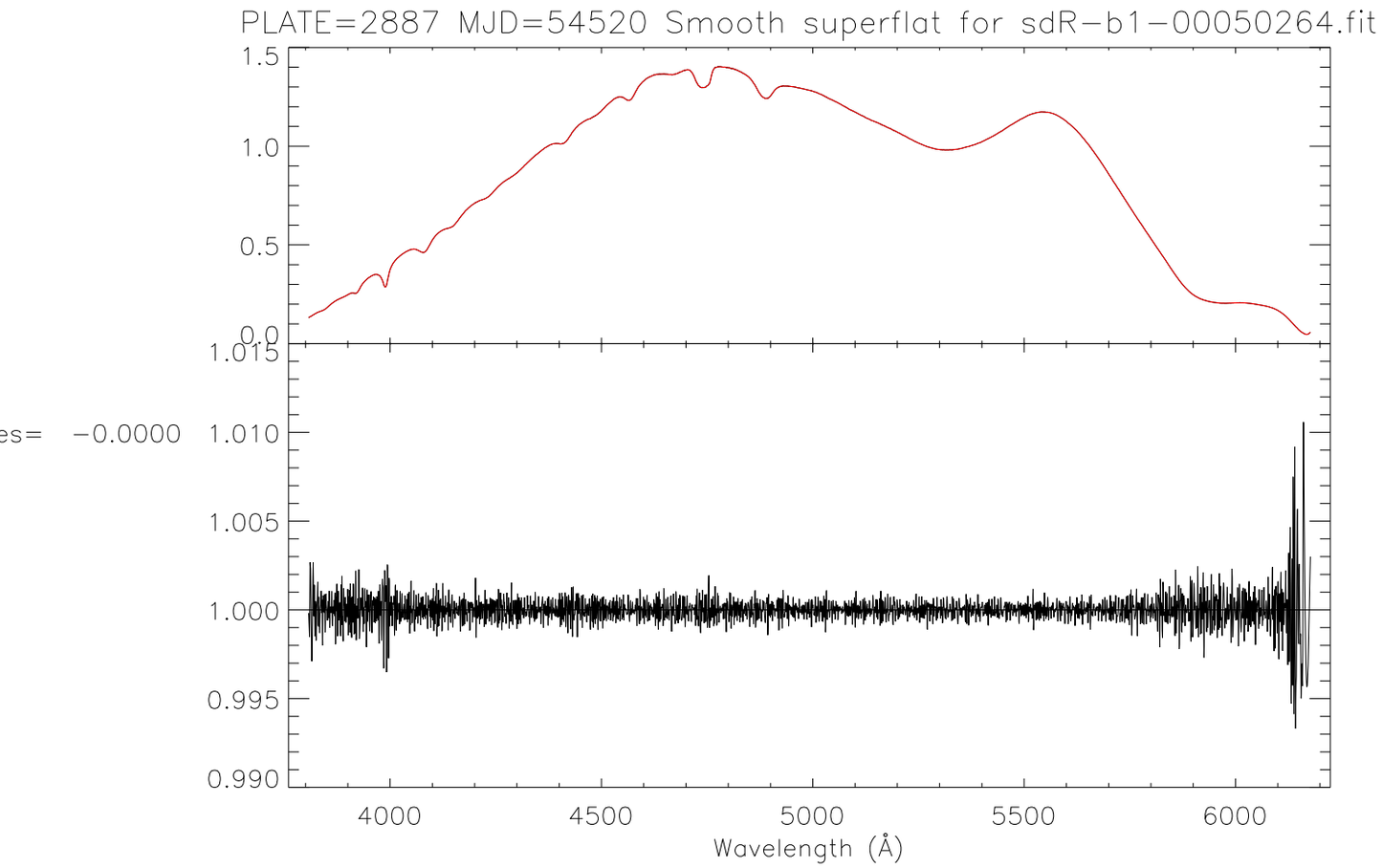

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

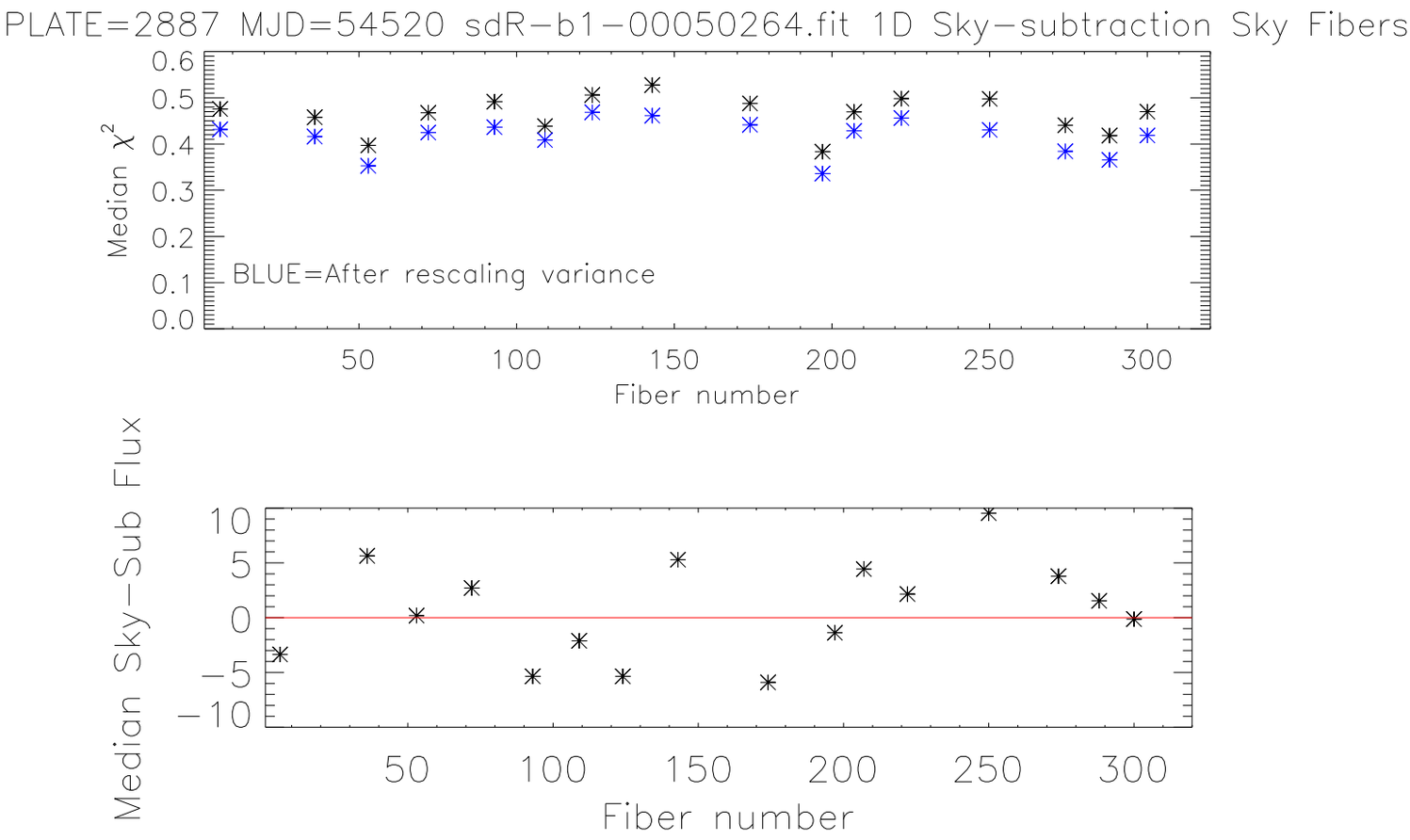

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

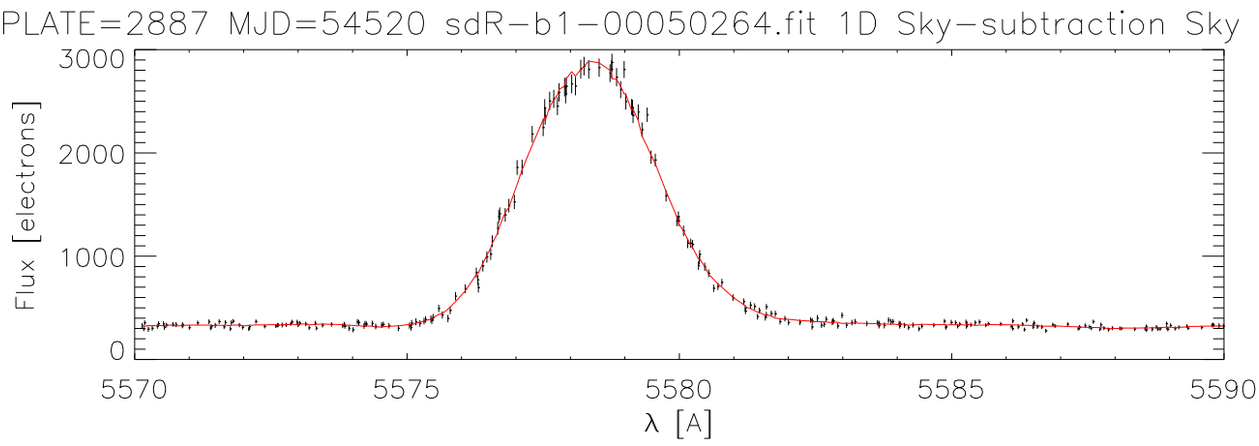

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

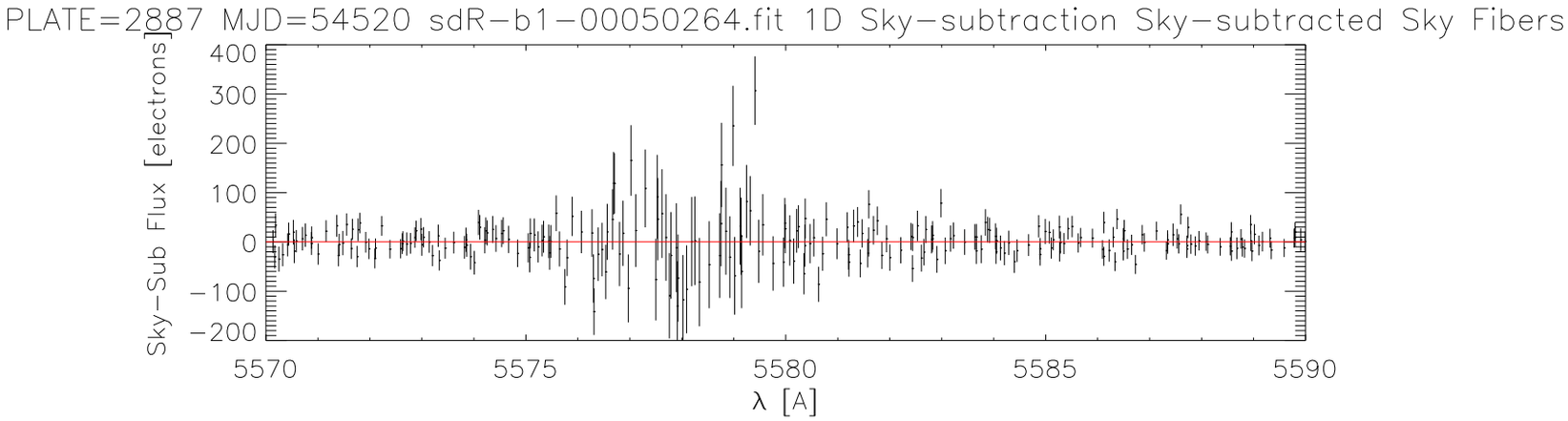

4046.5600
nfib1 16
nfib2 16
stdev 0.093
extra 0.09
4358.3300
nfib1 16
nfib2 16
stdev 0.036
extra 0.01
5460.9400
nfib1 16
nfib2 16
stdev 0.031
extra 0.03
5577.3390
nfib1 16
nfib2 16
stdev 0.023
extra 0.09
5889.9500
nfib1 16
nfib2 16
stdev 0.055
extra 0.20
5895.9240
nfib1 16
nfib2 16
stdev 0.033
extra 0.18
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

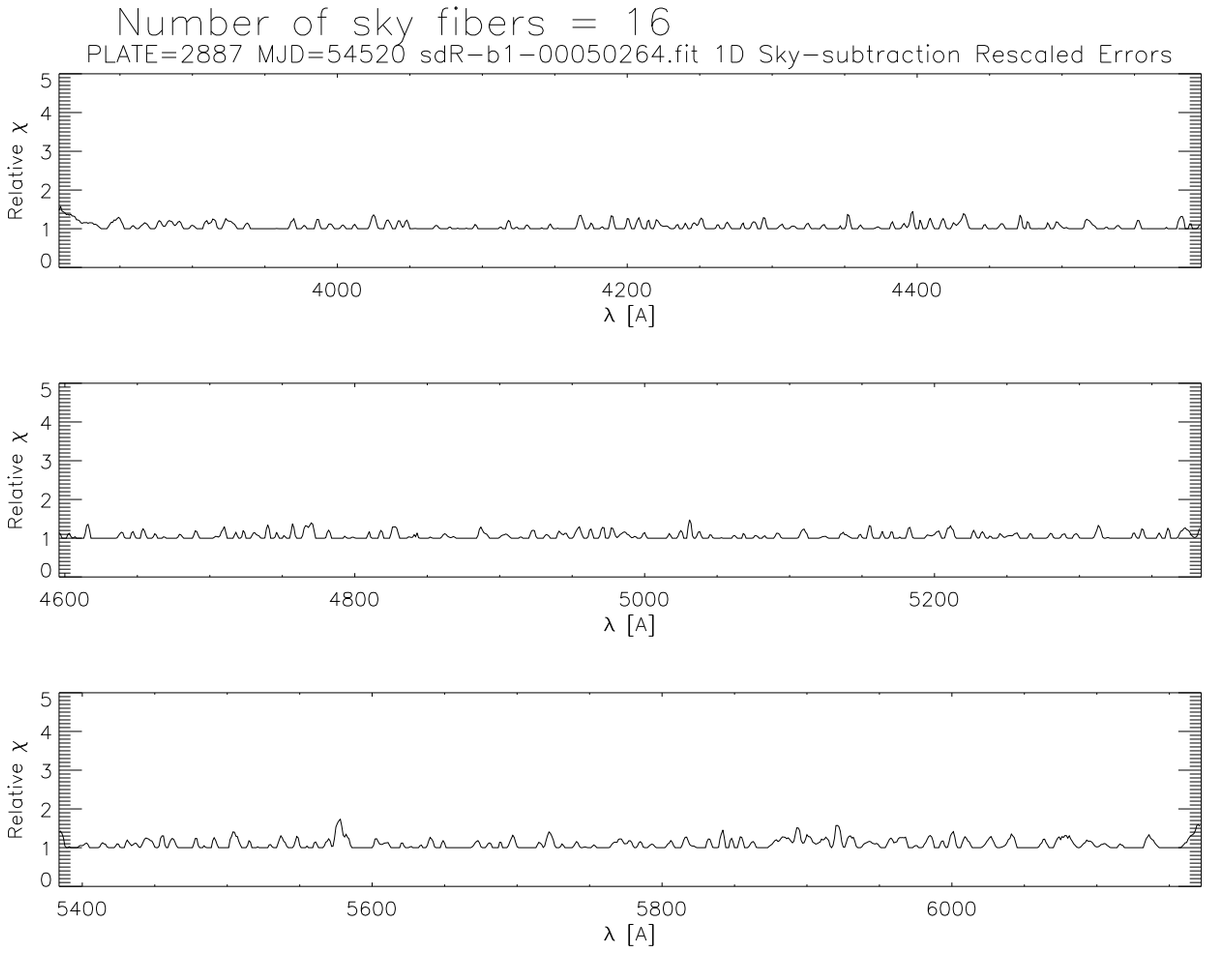

0.20
0.15
0.10
0.05
0.00
−0.05
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

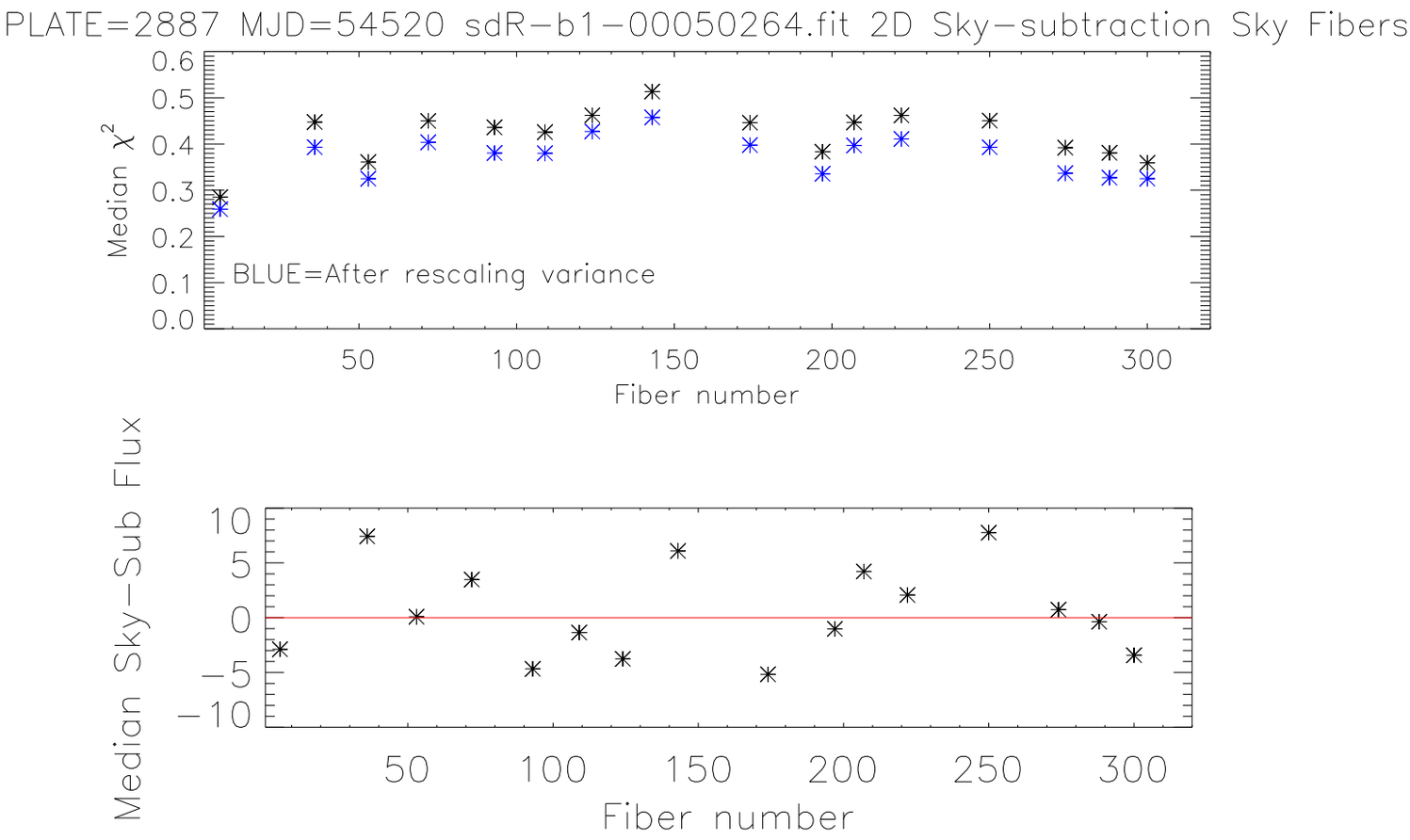

PLATE=2887 MJD=54520 Smooth superflat for sdR-b1-00050264.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

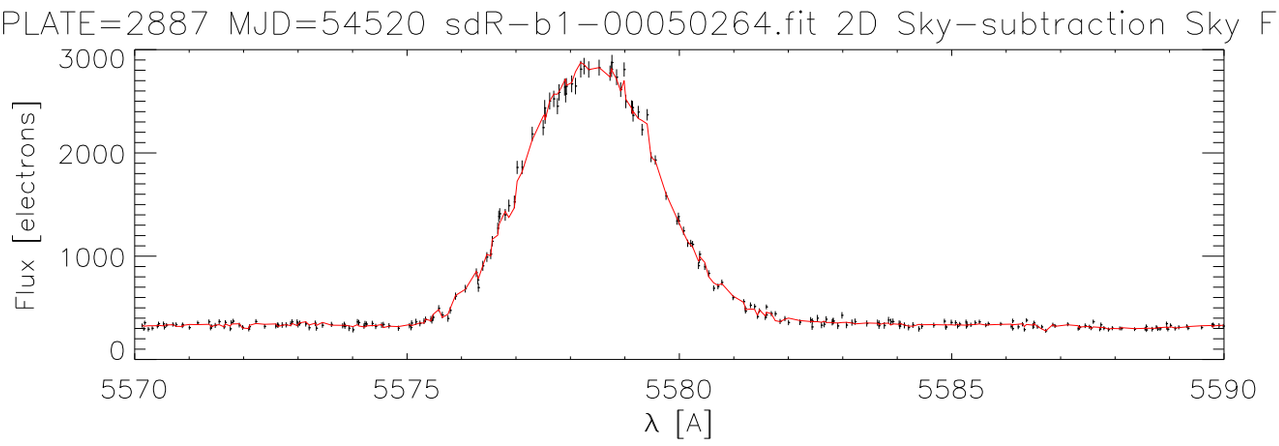

PLATE=2887 MJD=54520 sdR-b1-00050264.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

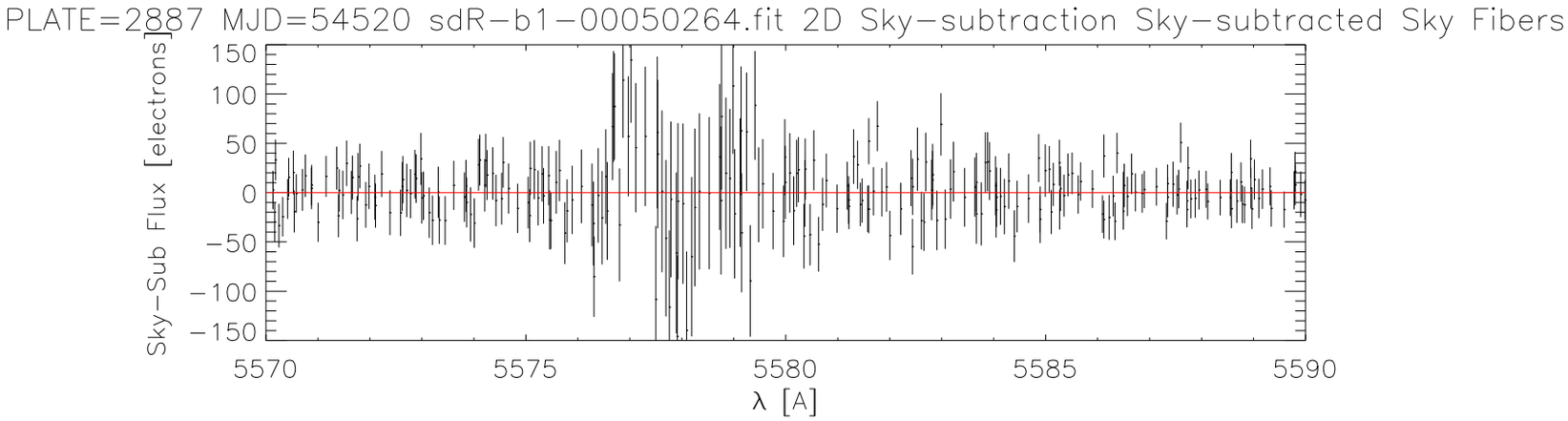

PLATE=2887 MJD=54520 sdR-b1-00050264.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

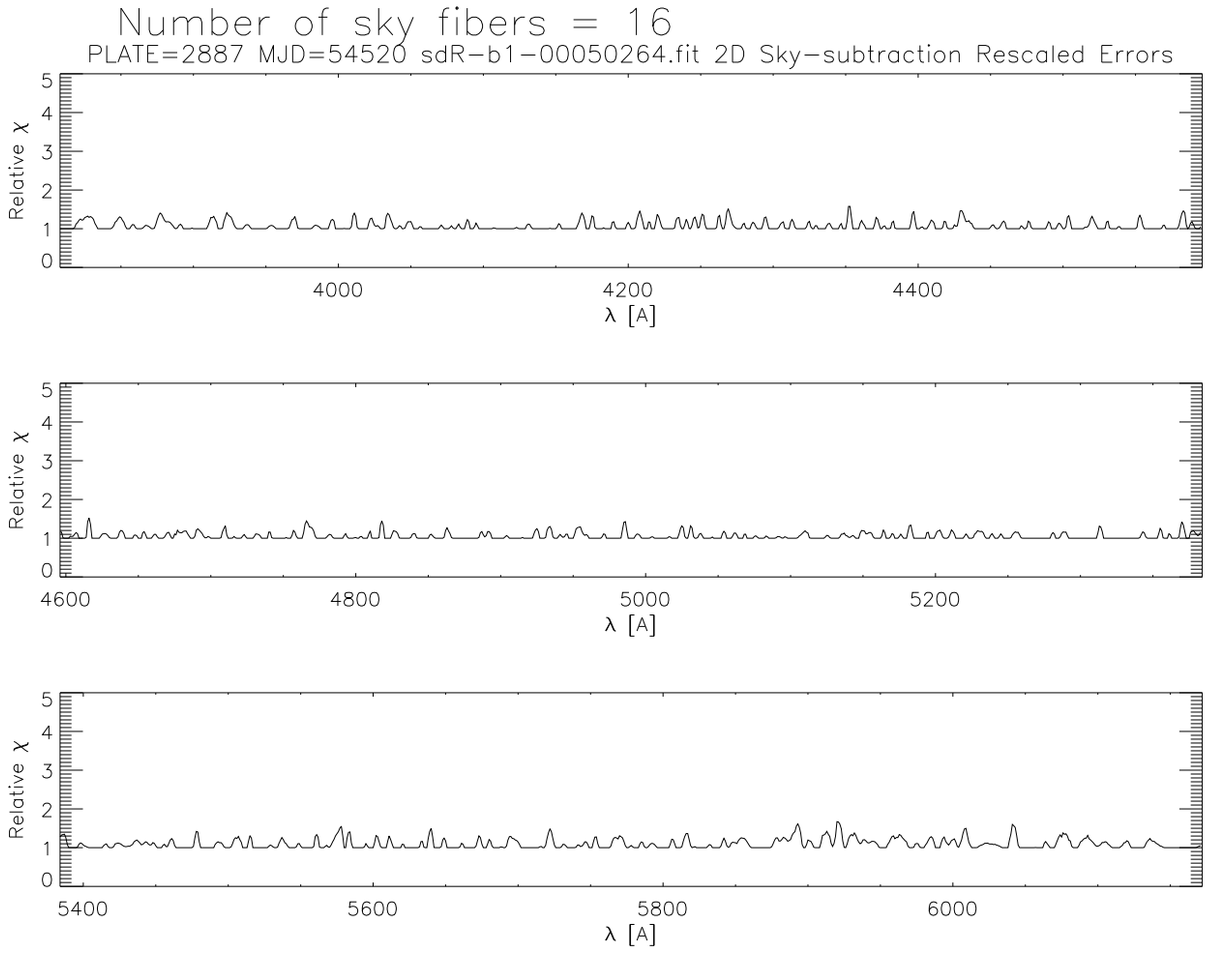

PLATE=2887 MJD=54520 sdR-b1-00050264.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

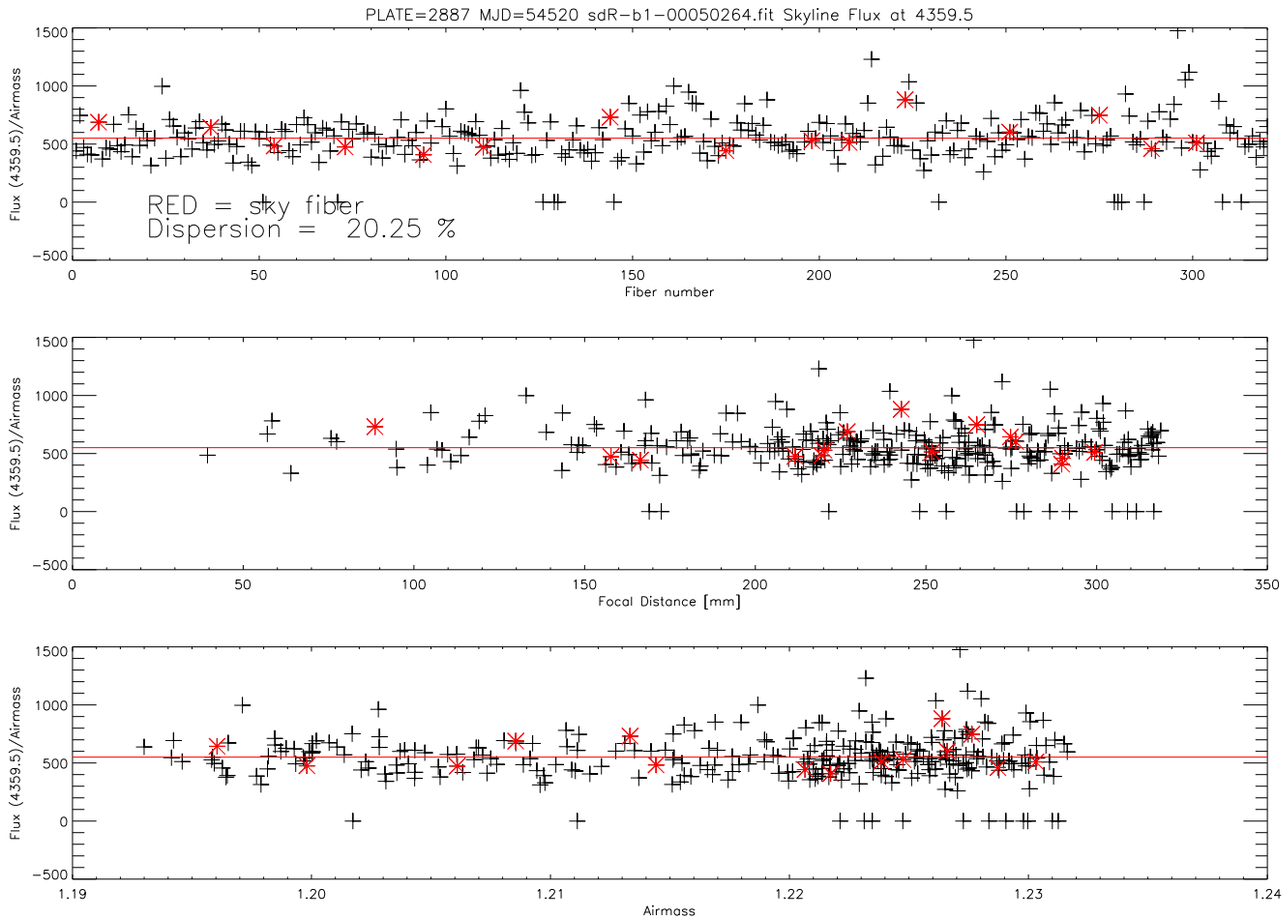

Number of sky fibers = 16
PLATE=2887 MJD=54520 sdR-b1-00050264.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

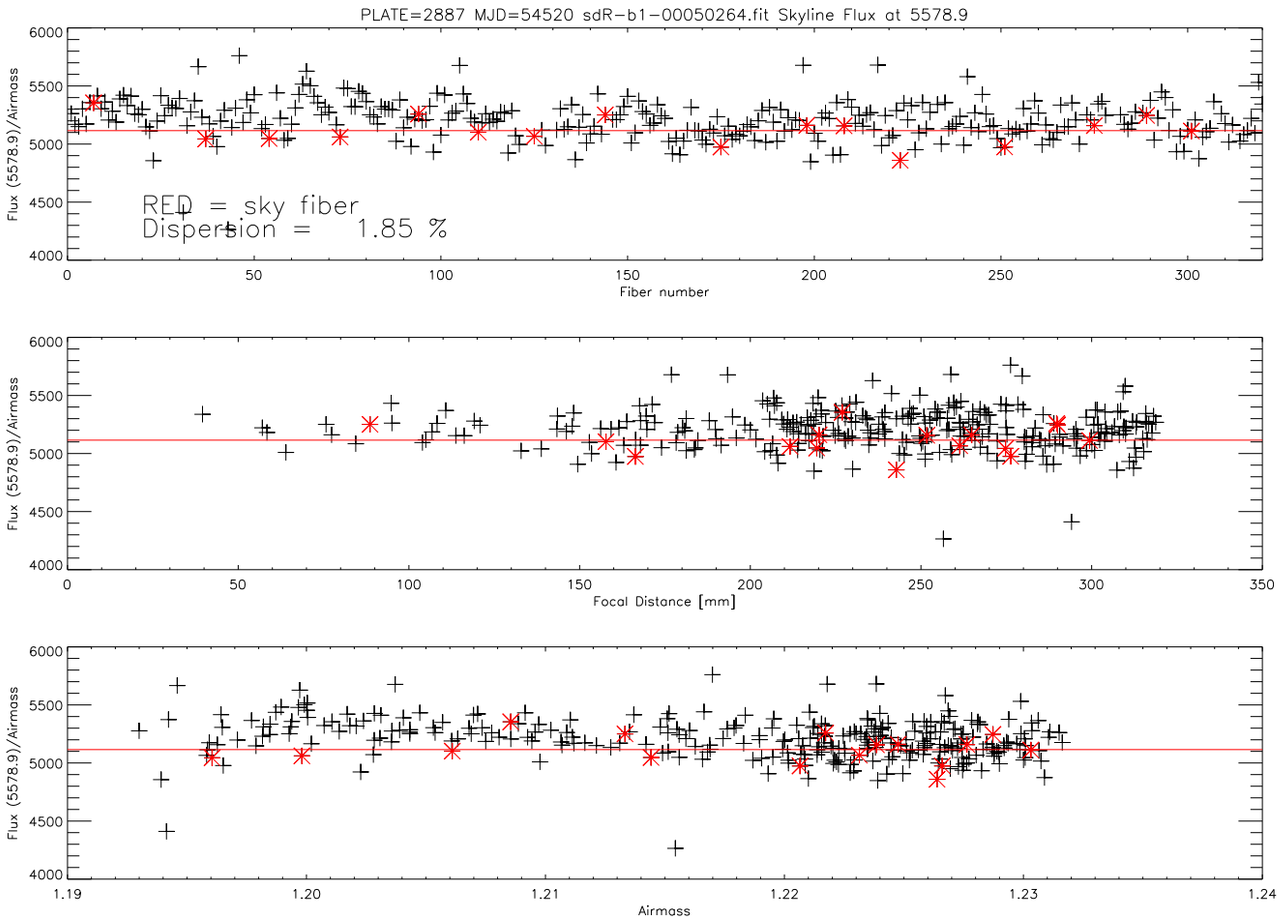

PLATE=2887 MJD=54520 sdR-b1-00050264.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

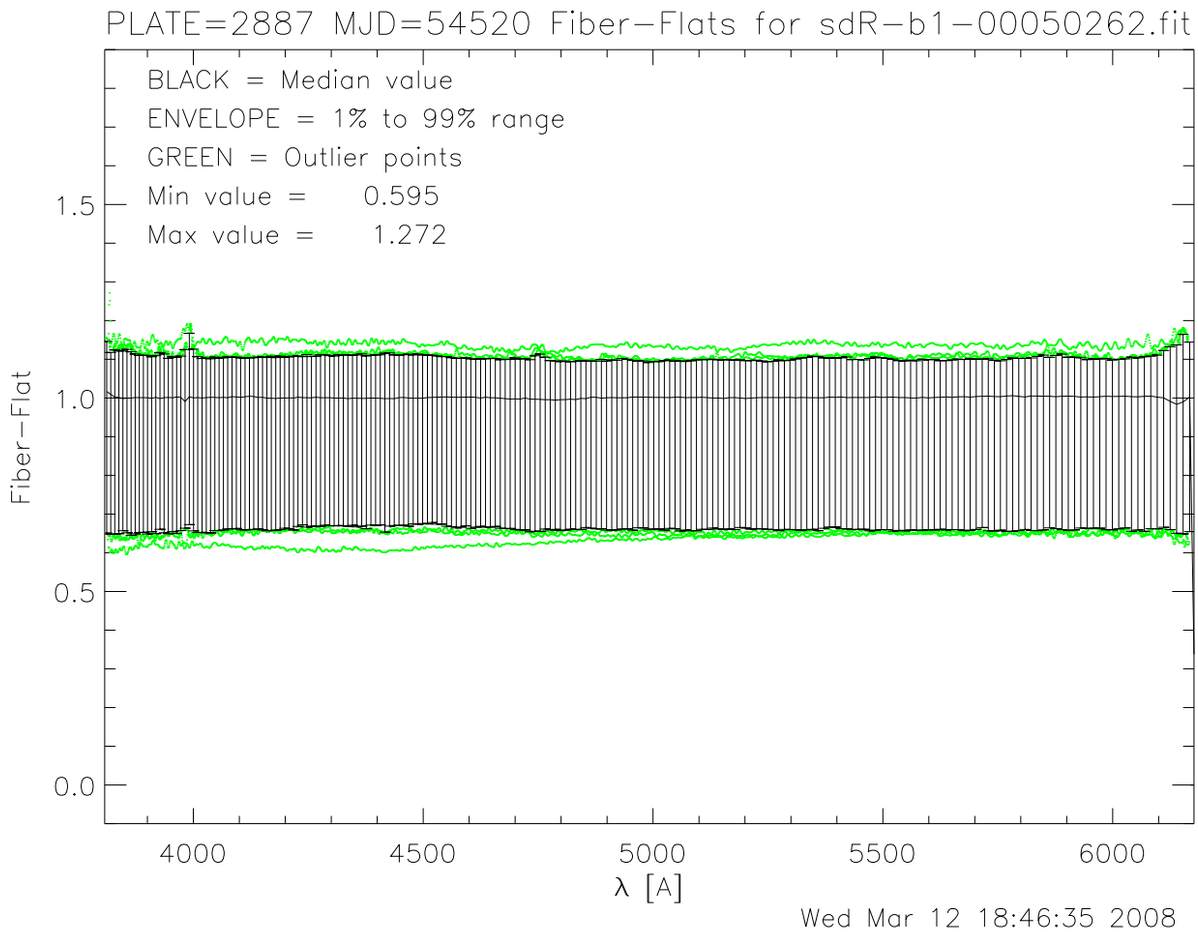

PLATE=2887 MJD=54520 sdR-b1-00050264.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

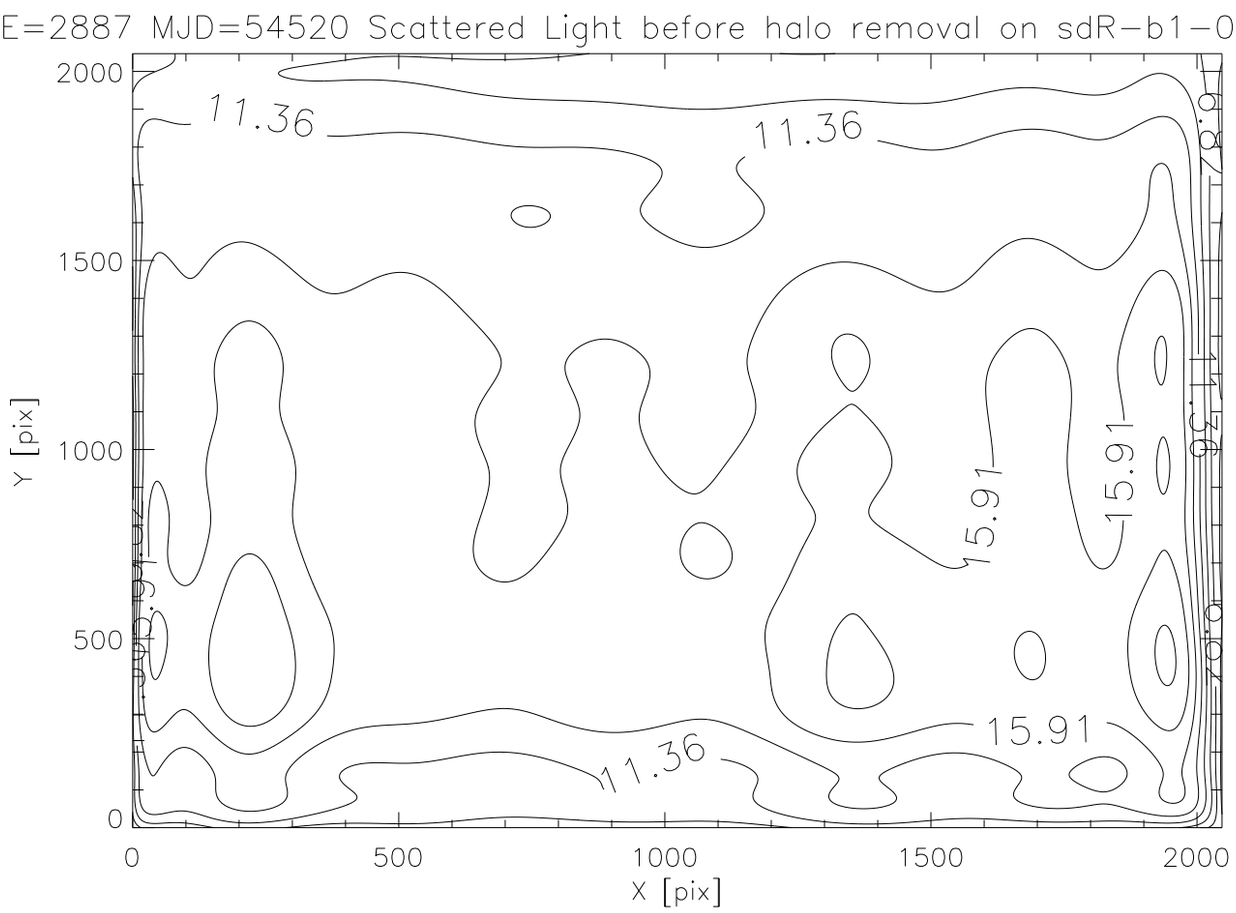

PLATE=2887 MJD=54520 sdR-b1-00050264.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

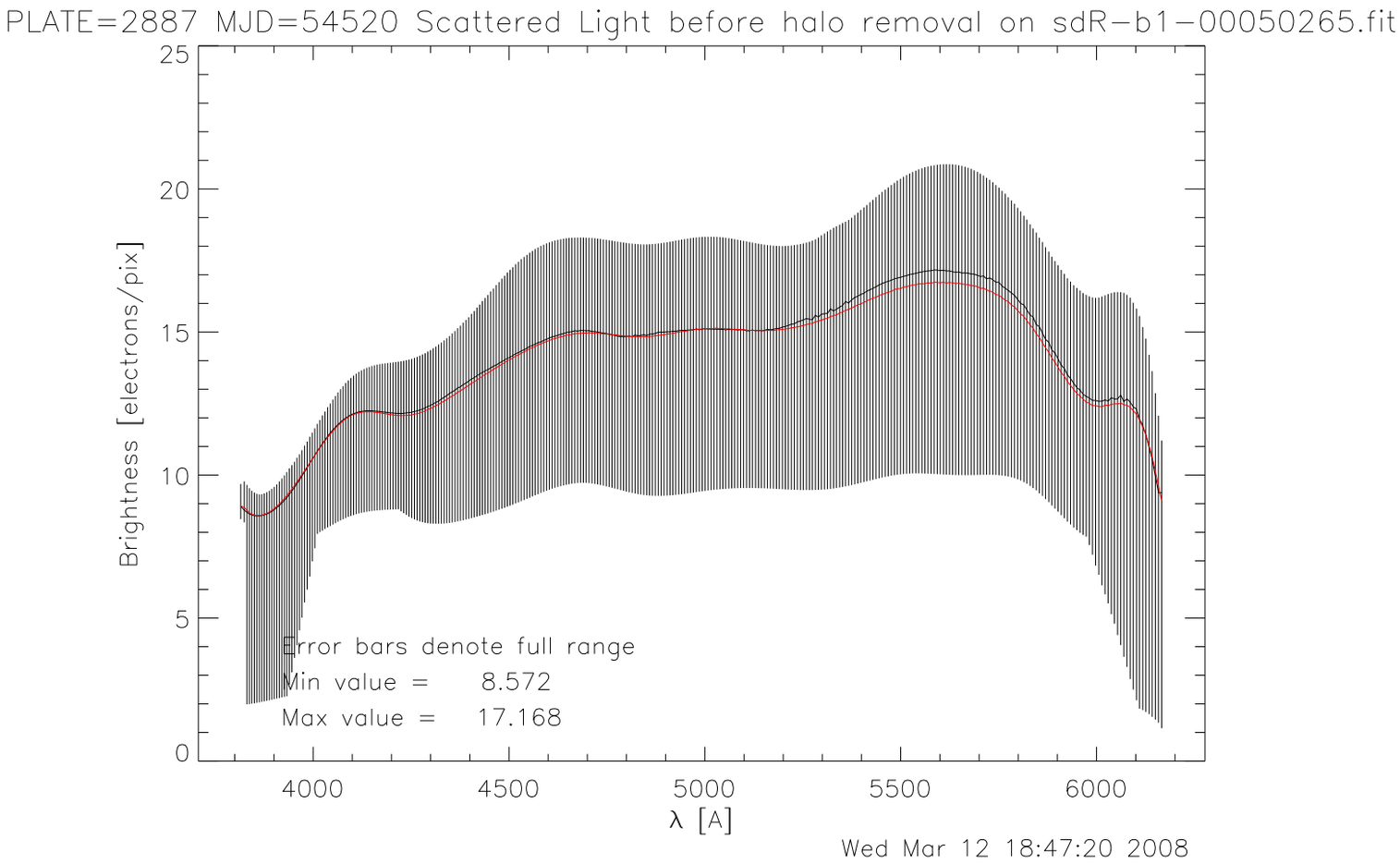

Number of sky fibers = 16
PLATE=2887 MJD=54520 sdR-b1-00050264.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

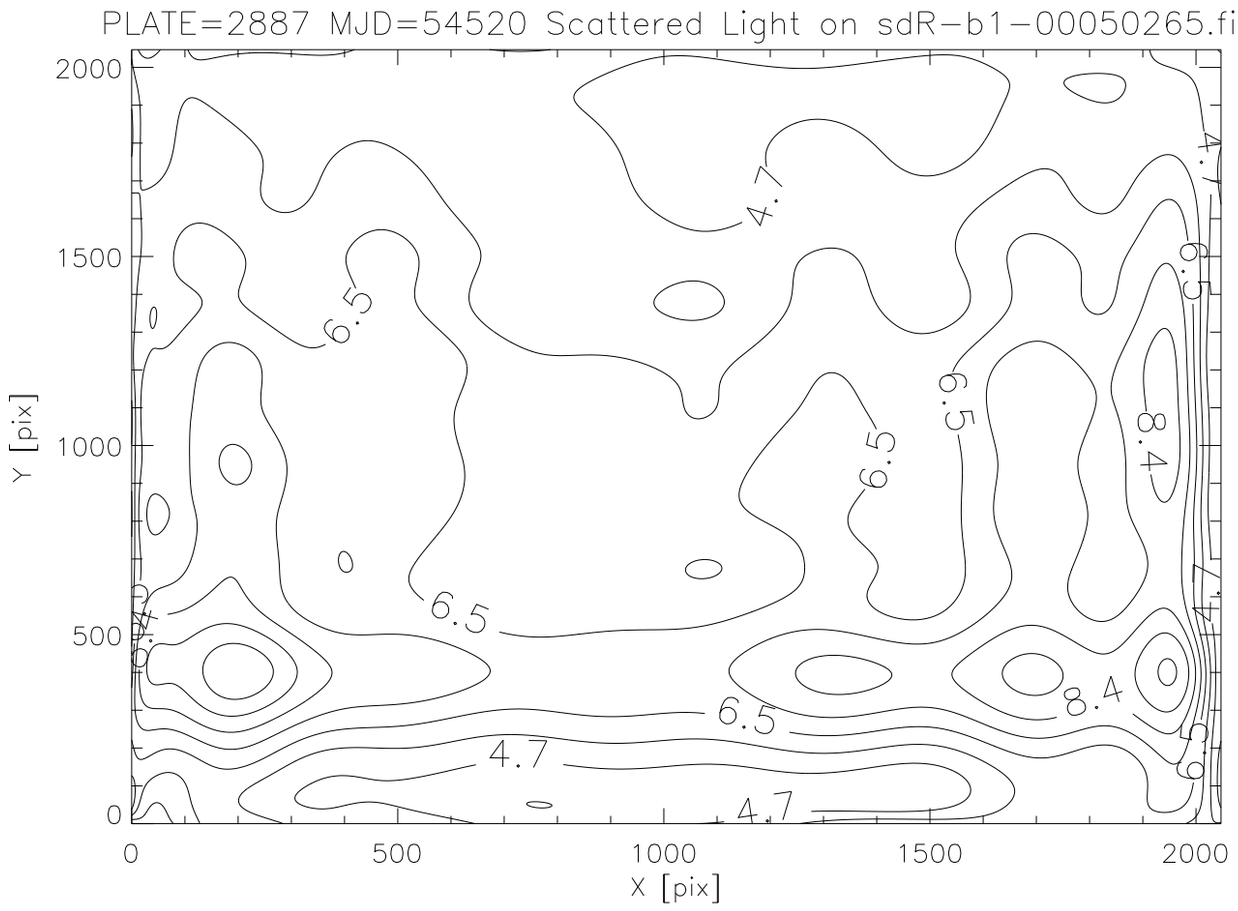

PLATE=2887 MJD=54520 sdR-b1-00050264.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 20.25 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

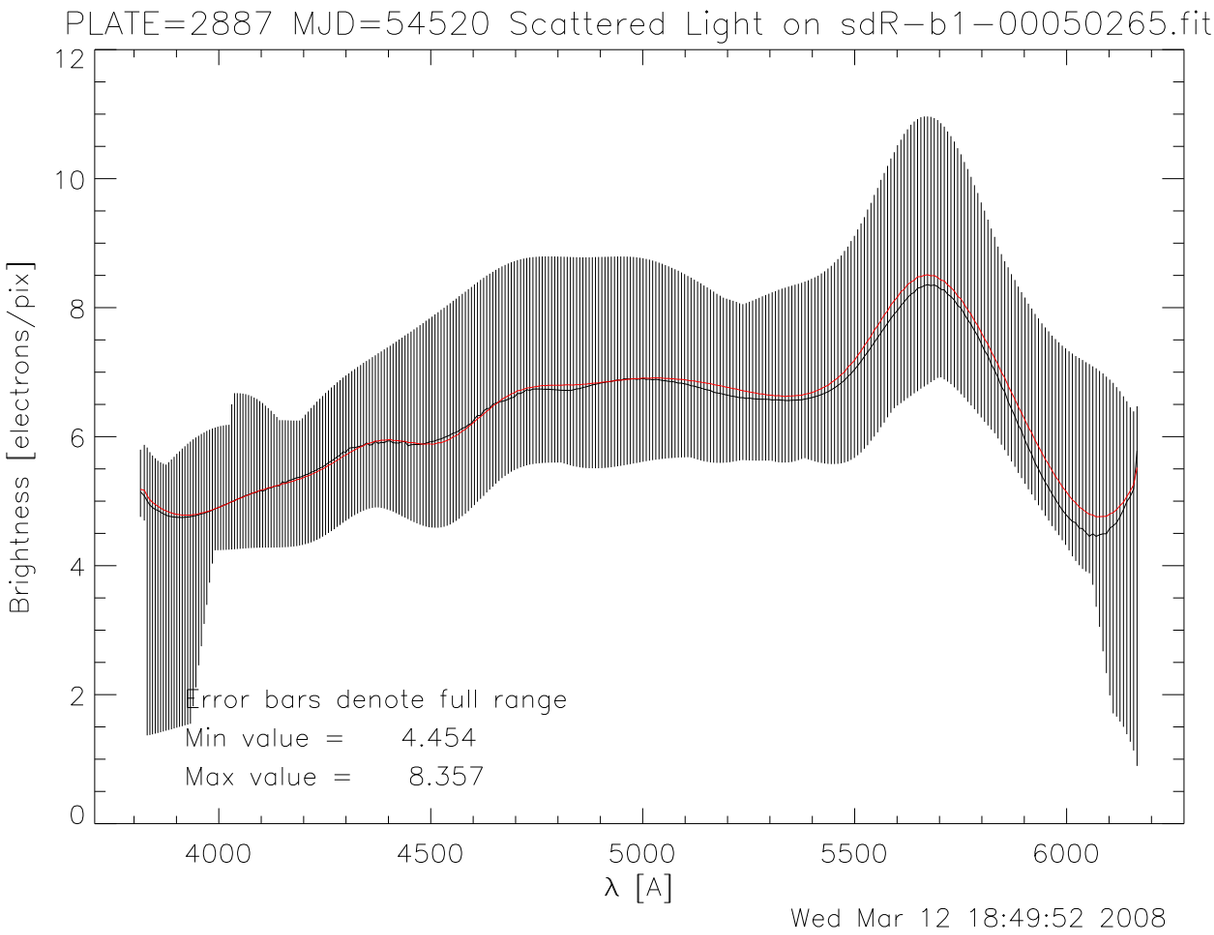

PLATE=2887 MJD=54520 sdR-b1-00050264.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.85 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

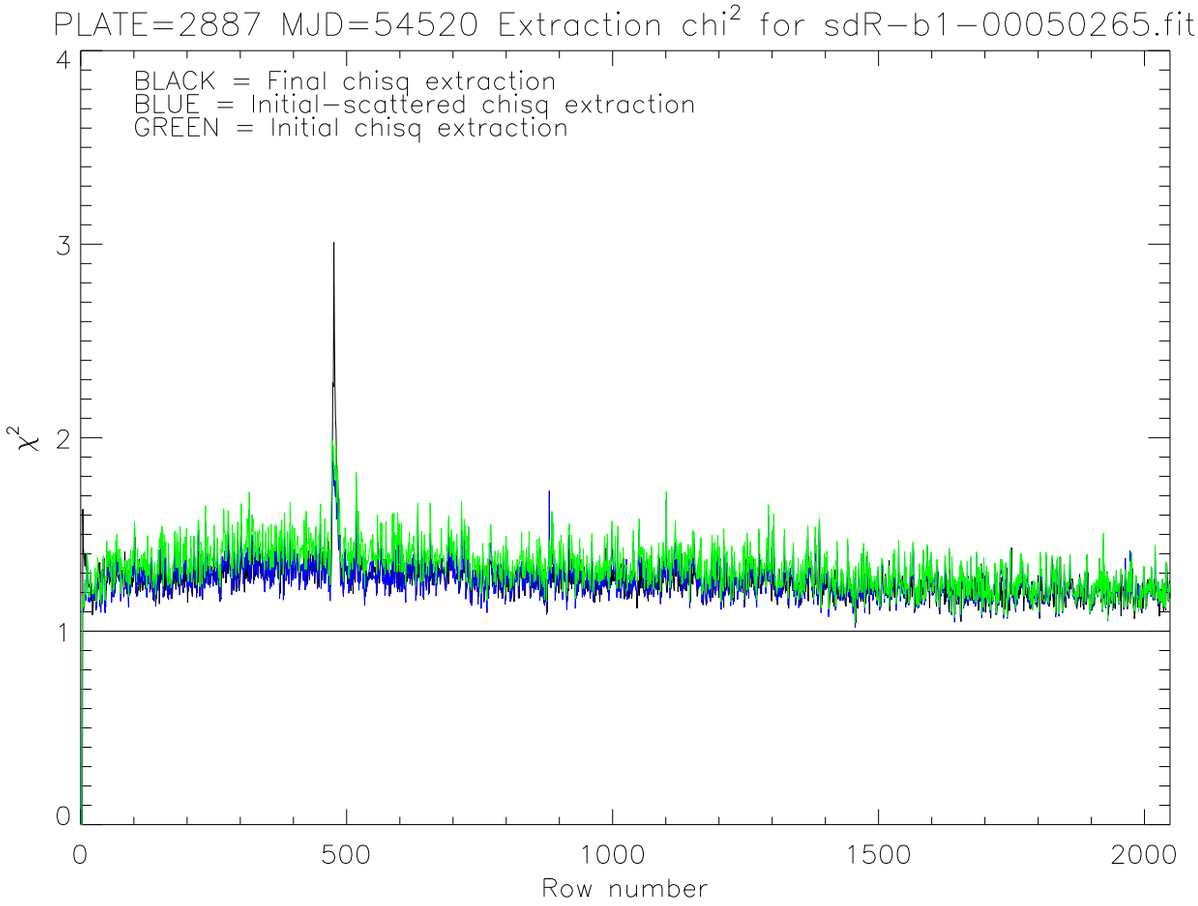

PLATE=2887 MJD=54520 Fiber-Flats for sdR-b1-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.595
Max value = 1.272
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 18:46:35 2008

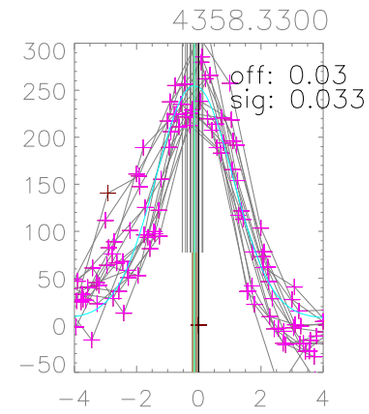

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b1-00050265.fit
11.36
11.36
15.91
15.91
15.91
11.36
11.36
15.91
Y [pix]
X [pix]
0
500
1000
1500
2000

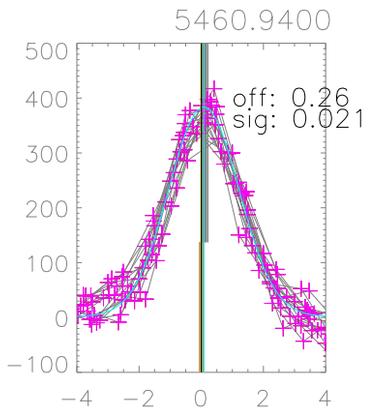

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b1-00050265.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.572
Max value = 17.168
Wed Mar 12 18:47:20 2008

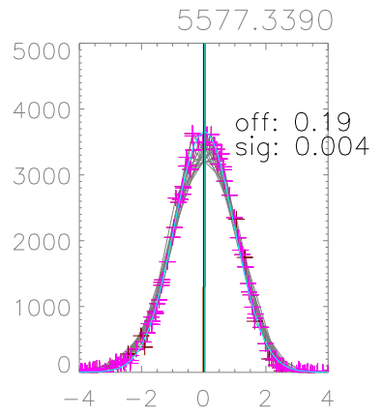

PLATE=2887 MJD=54520 Scattered Light on sdR-b1-00050265.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
4.7
6.5
8.4
0

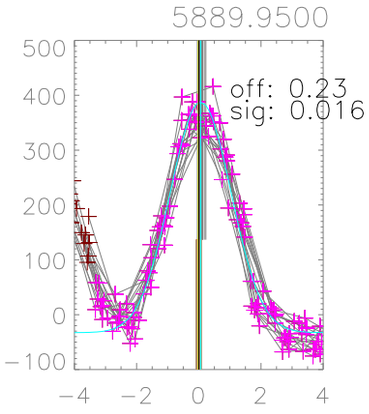

PLATE=2887 MJD=54520 Scattered Light on sdR-b1-00050265.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 4.454
Max value = 8.357
Wed Mar 12 18:49:52 2008

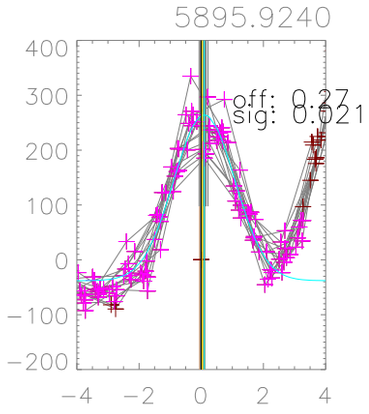

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-b1-00050265.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

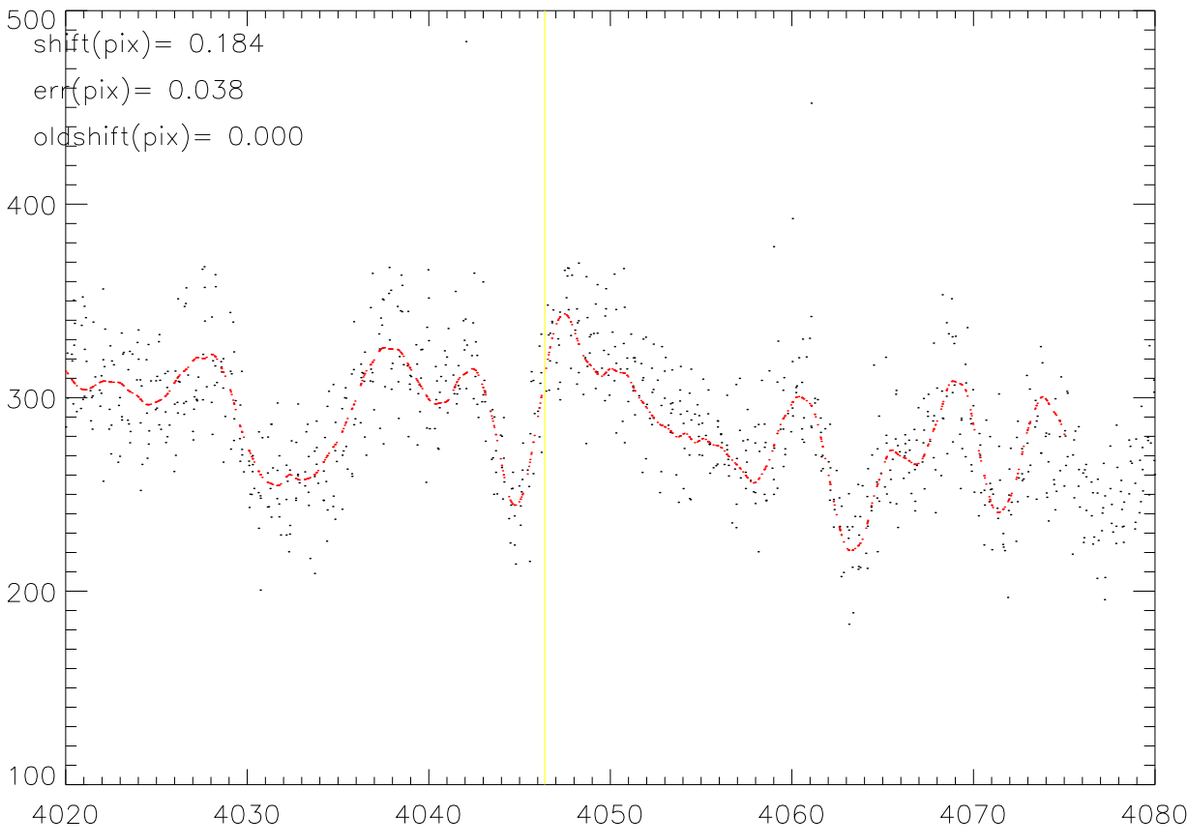

4358.3300
off: 0.03
sig: 0.033

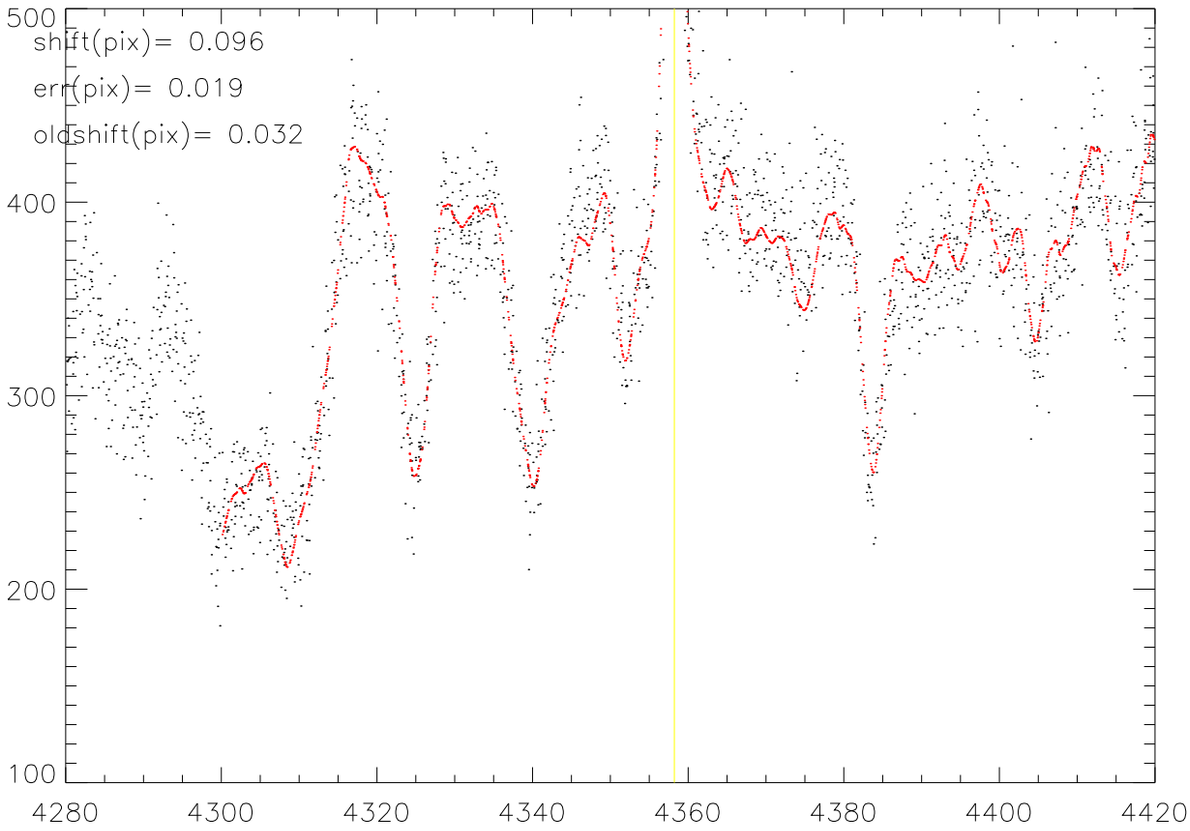

5460.9400
off: 0.26
sig: 0.021

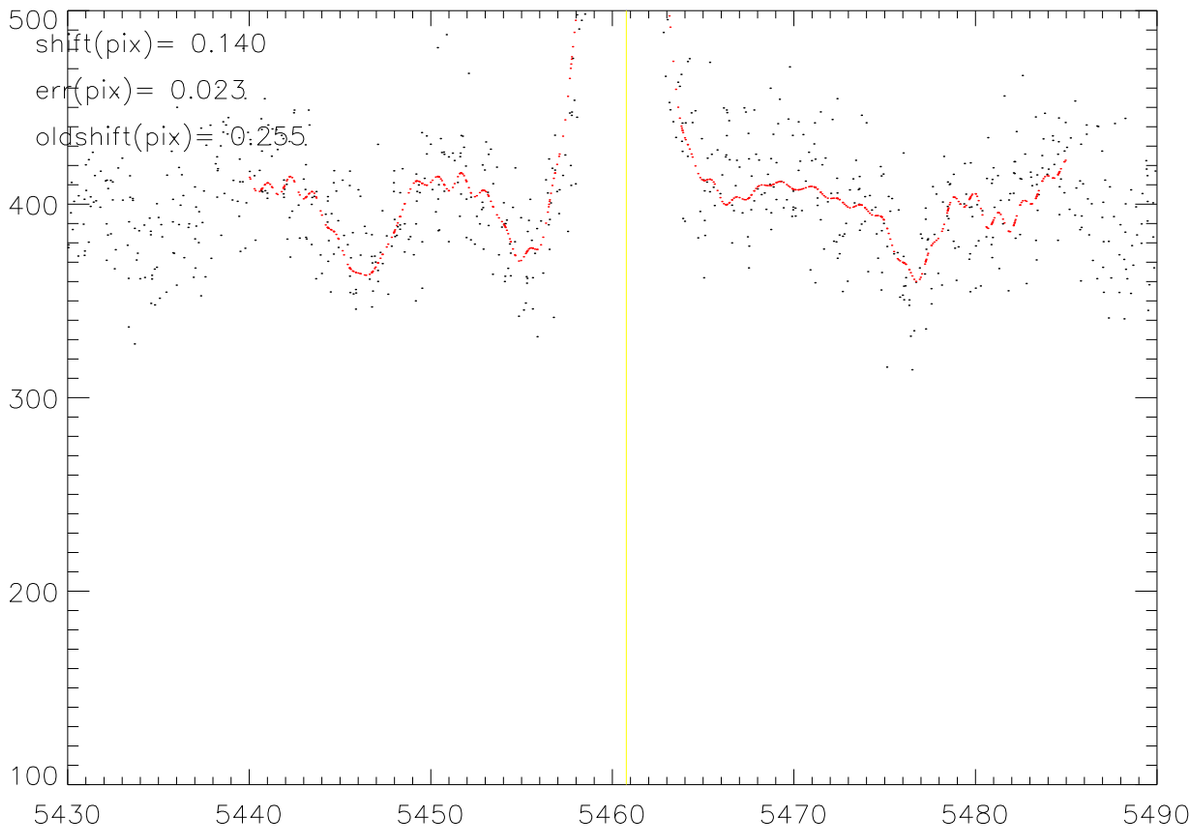

5577.3390
off: 0.19
sig: 0.004

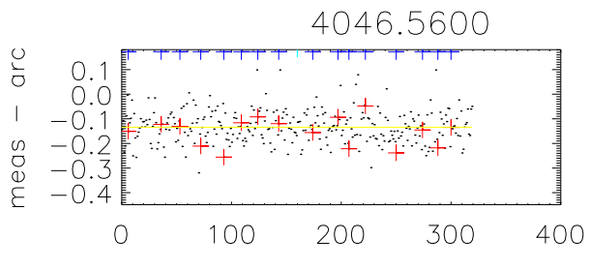

5889.9500
off: 0.23
sig: 0.016

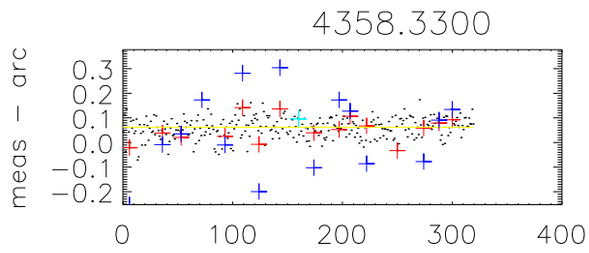

5895.9240
off: 0.27
sig: 0.021

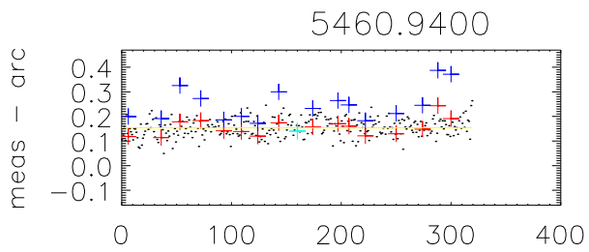

shift(pix)= 0.184
err(pix)= 0.038
oldshift(pix)= 0.000
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

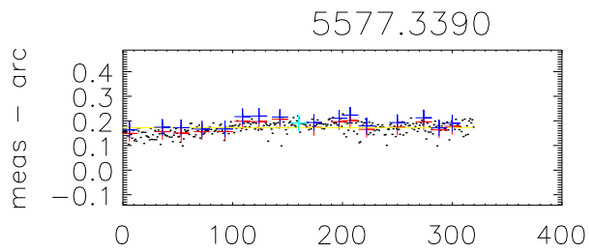

shift(pix)= 0.096
err(pix)= 0.019
oldshift(pix)= 0.032
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

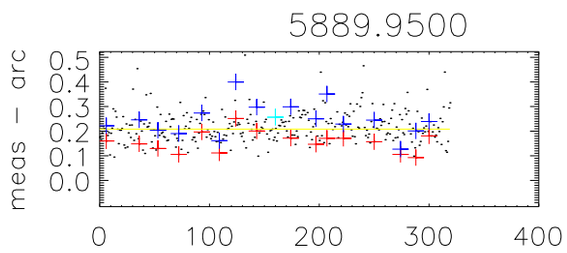

shift(pix)= 0.140
err(pix)= 0.023
oldshift(pix)= 0.255
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

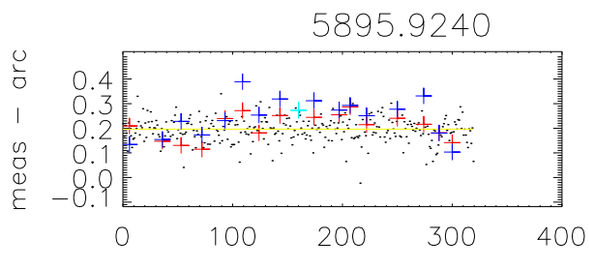

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

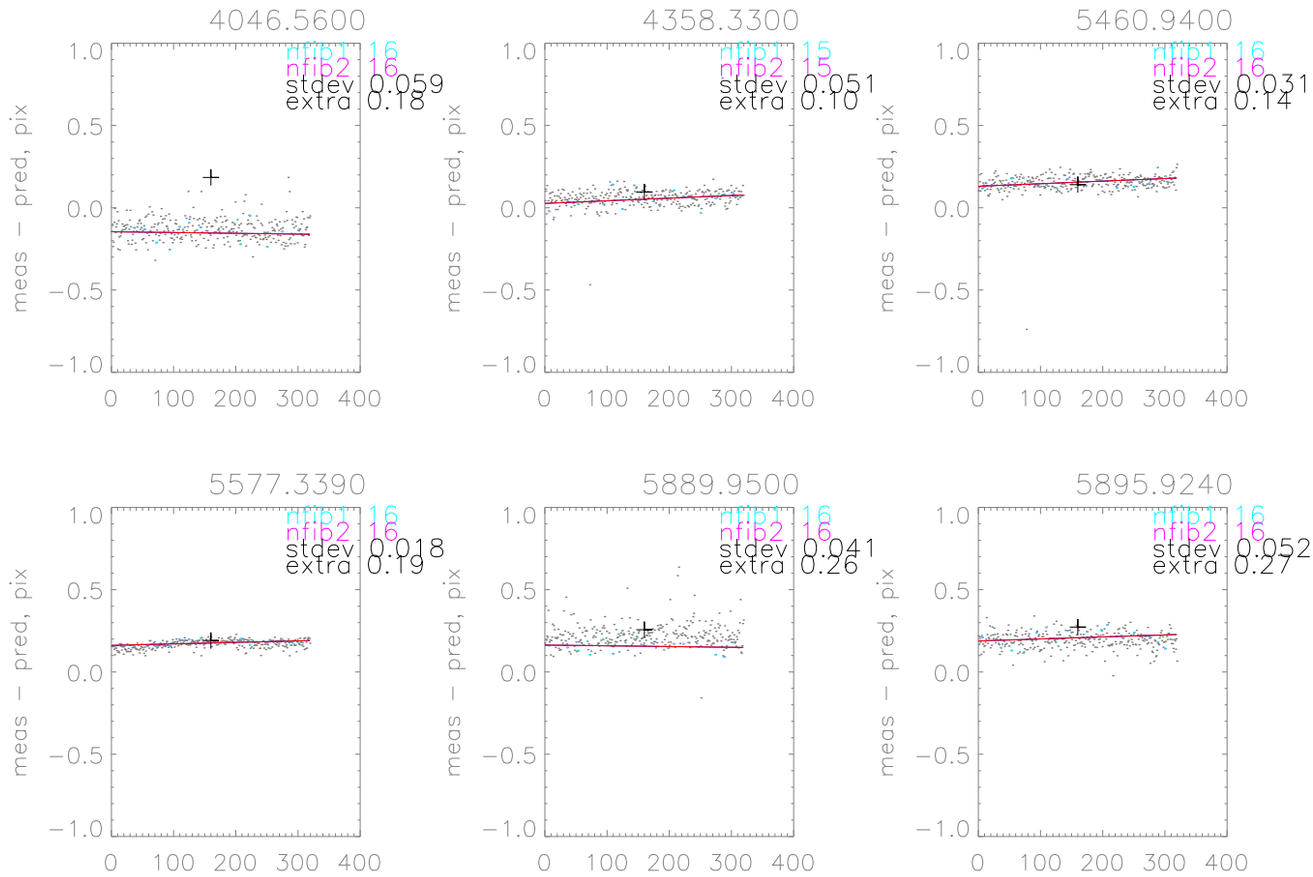

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

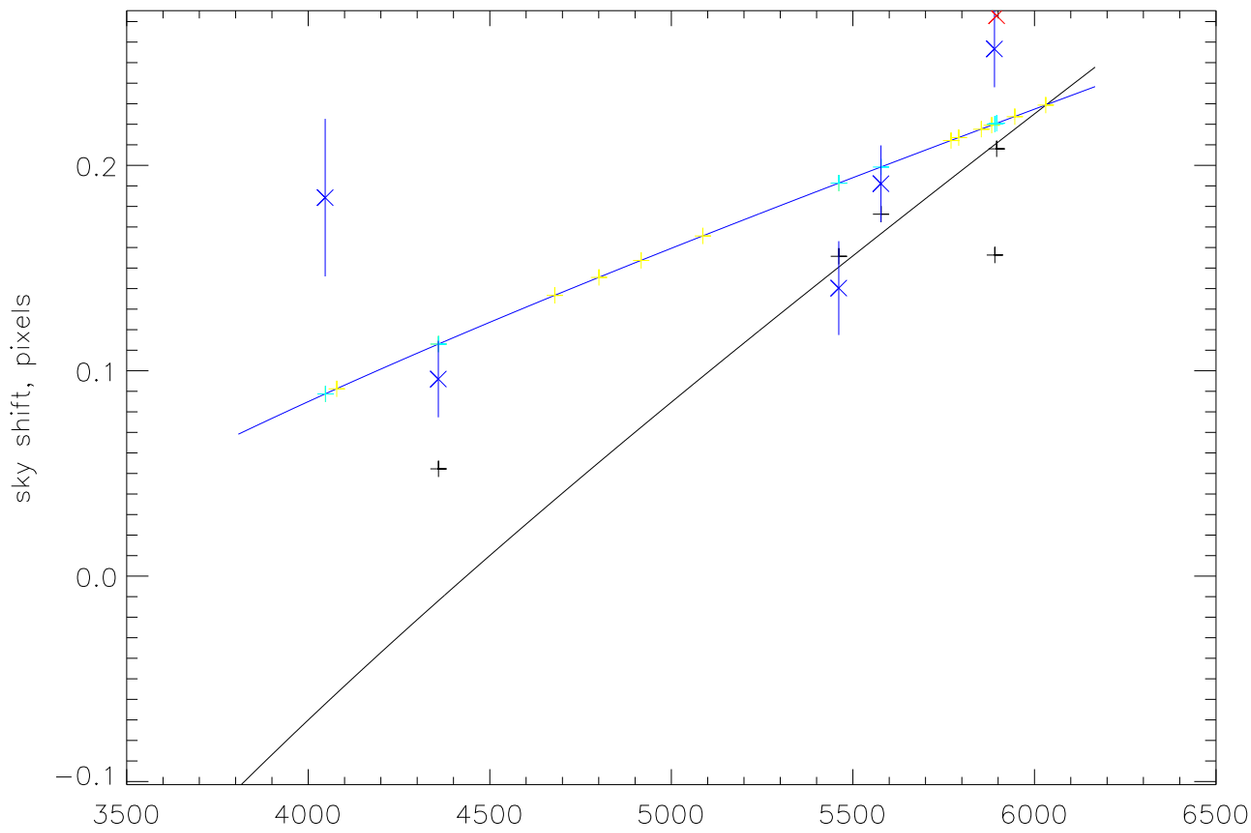

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

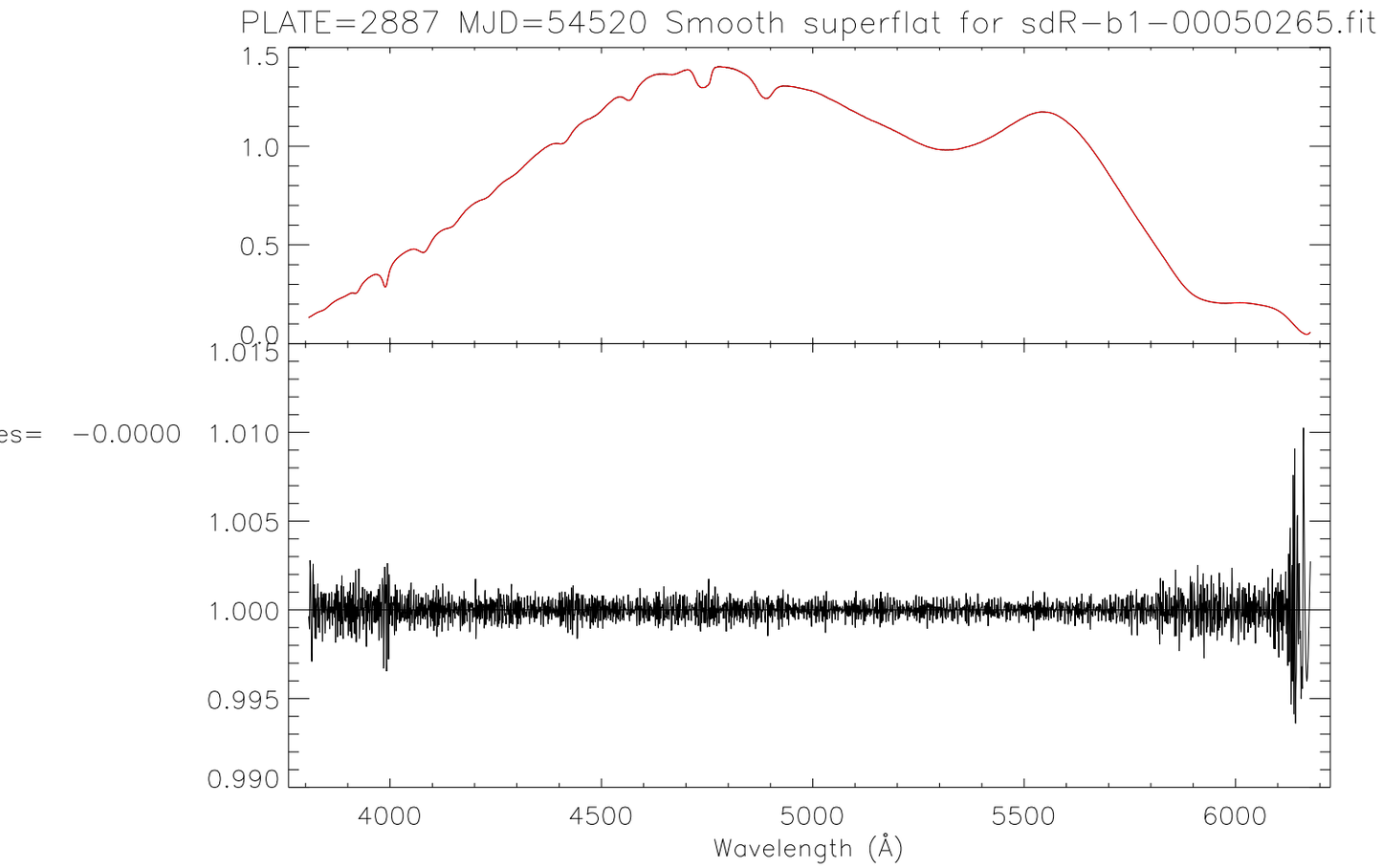

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

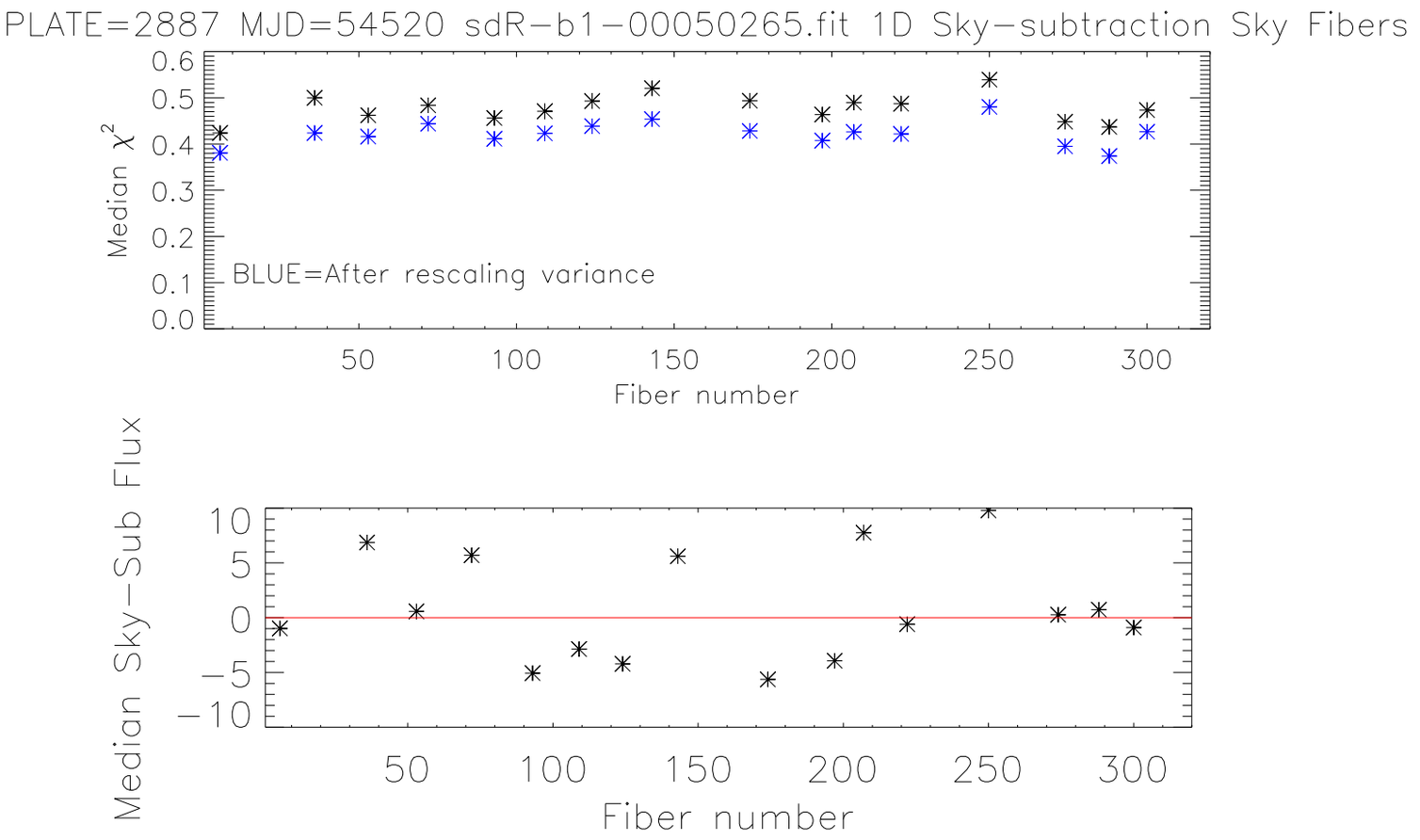

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

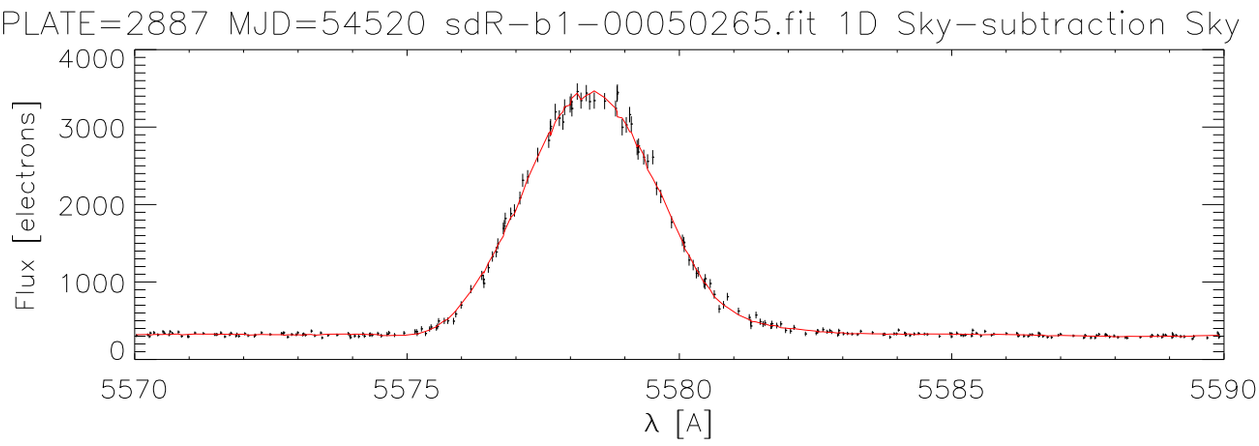

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

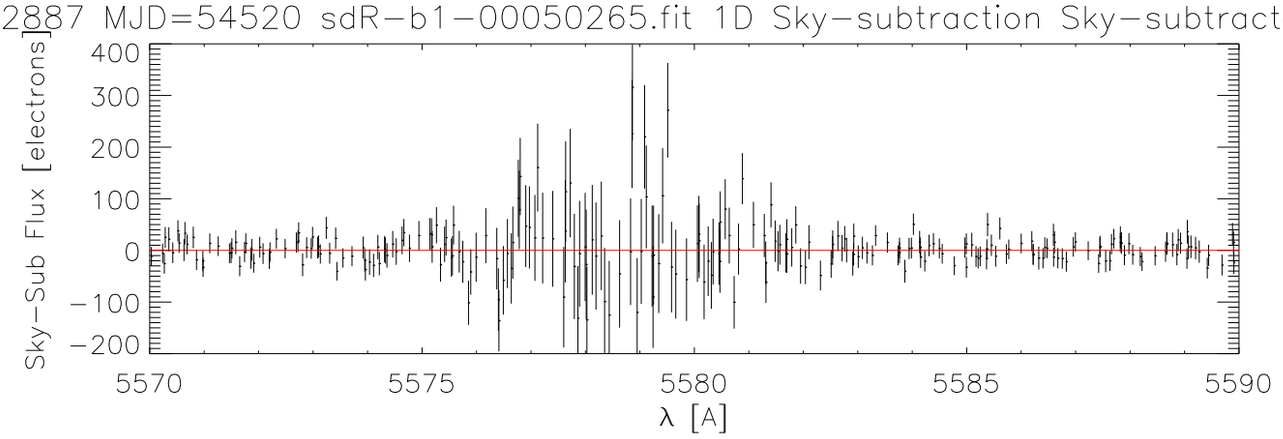

4046.5600
nfib1 16
nfib2 16
stdev 0.059
extra 0.18
4358.3300
nfib1 15
nfib2 15
stdev 0.051
extra 0.10
5460.9400
nfib1 16
nfib2 16
stdev 0.031
extra 0.14
5577.3390
nfib1 16
nfib2 16
stdev 0.018
extra 0.19
5889.9500
nfib1 16
nfib2 16
stdev 0.041
extra 0.26
5895.9240
nfib1 16
nfib2 16
stdev 0.052
extra 0.27
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

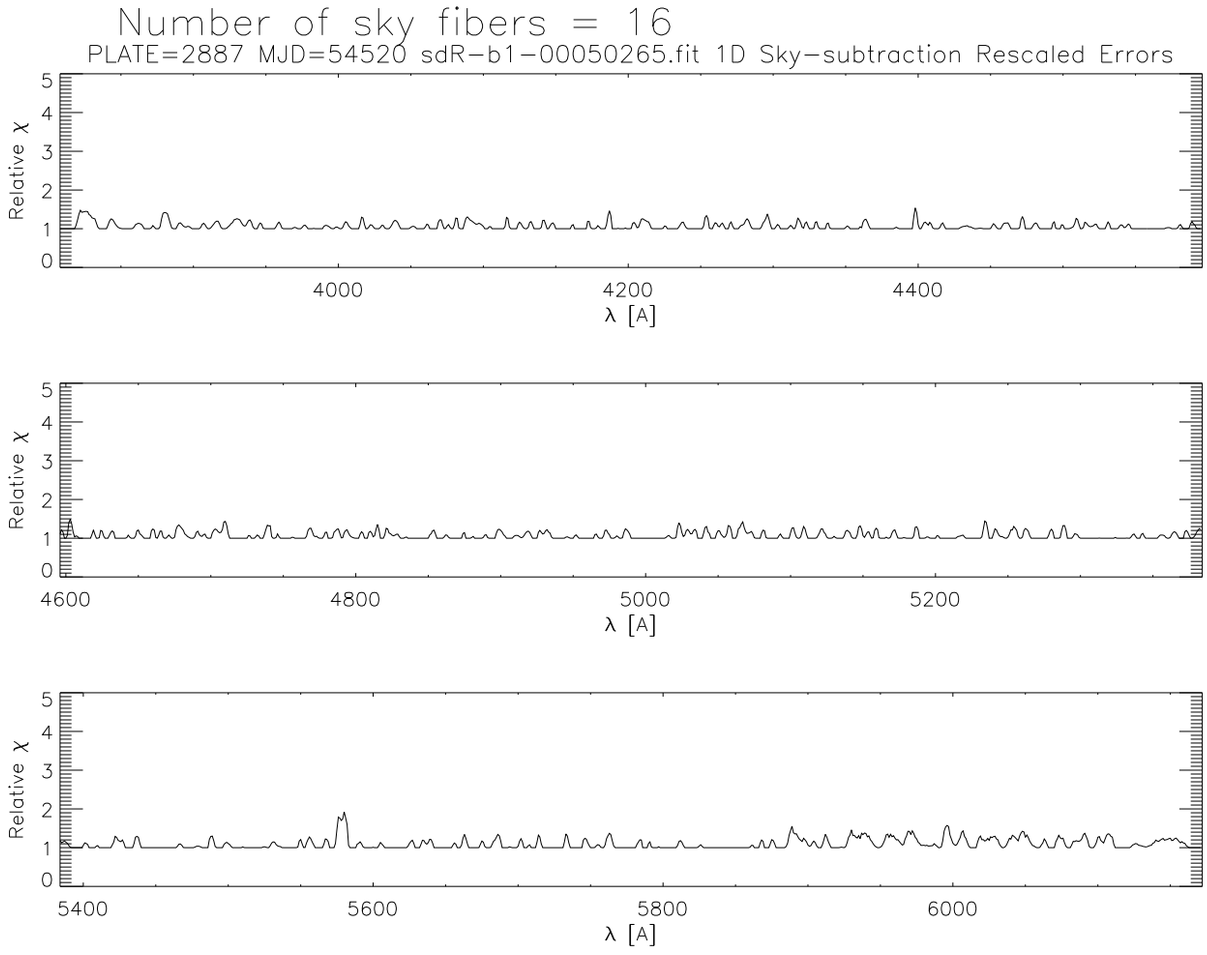

sky shift, pixels
0.2
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500

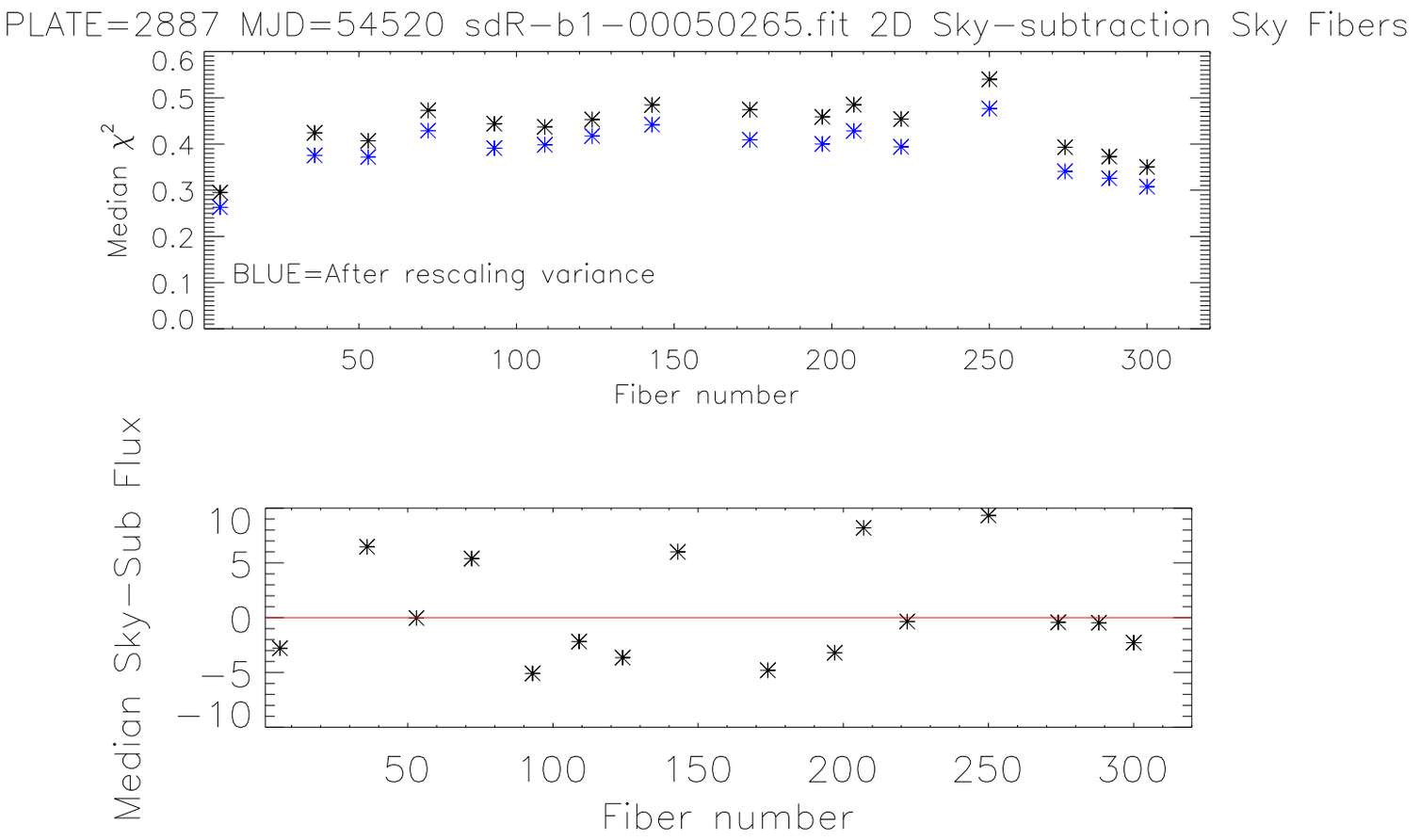

PLATE=2887 MJD=54520 Smooth superflat for sdR-b1-00050265.fit
1.5
1.0
0.5
0.0
es= -0.0000
1.015
1.010
1.005
1.000
0.995
0.990
4000
4500
5000
5500
6000
Wavelength (Å)

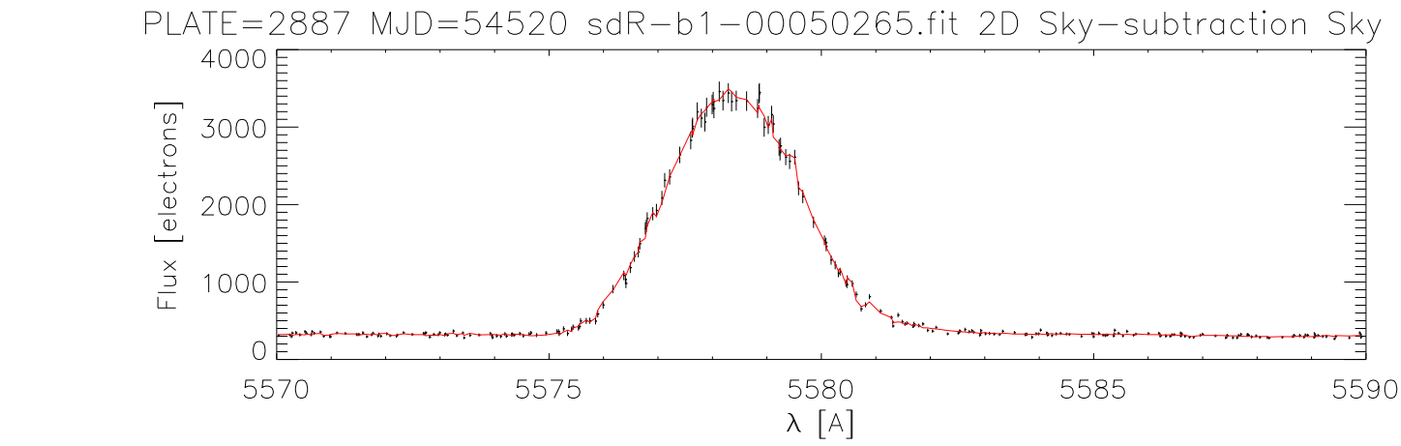

PLATE=2887 MJD=54520 sdR-b1-00050265.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

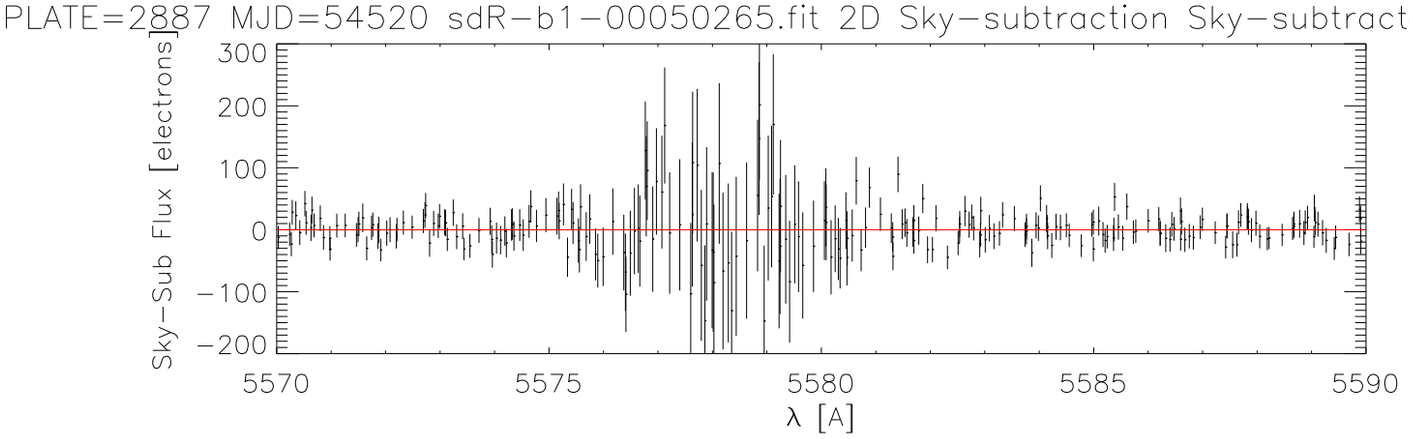

PLATE=2887 MJD=54520 sdR-b1-00050265.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

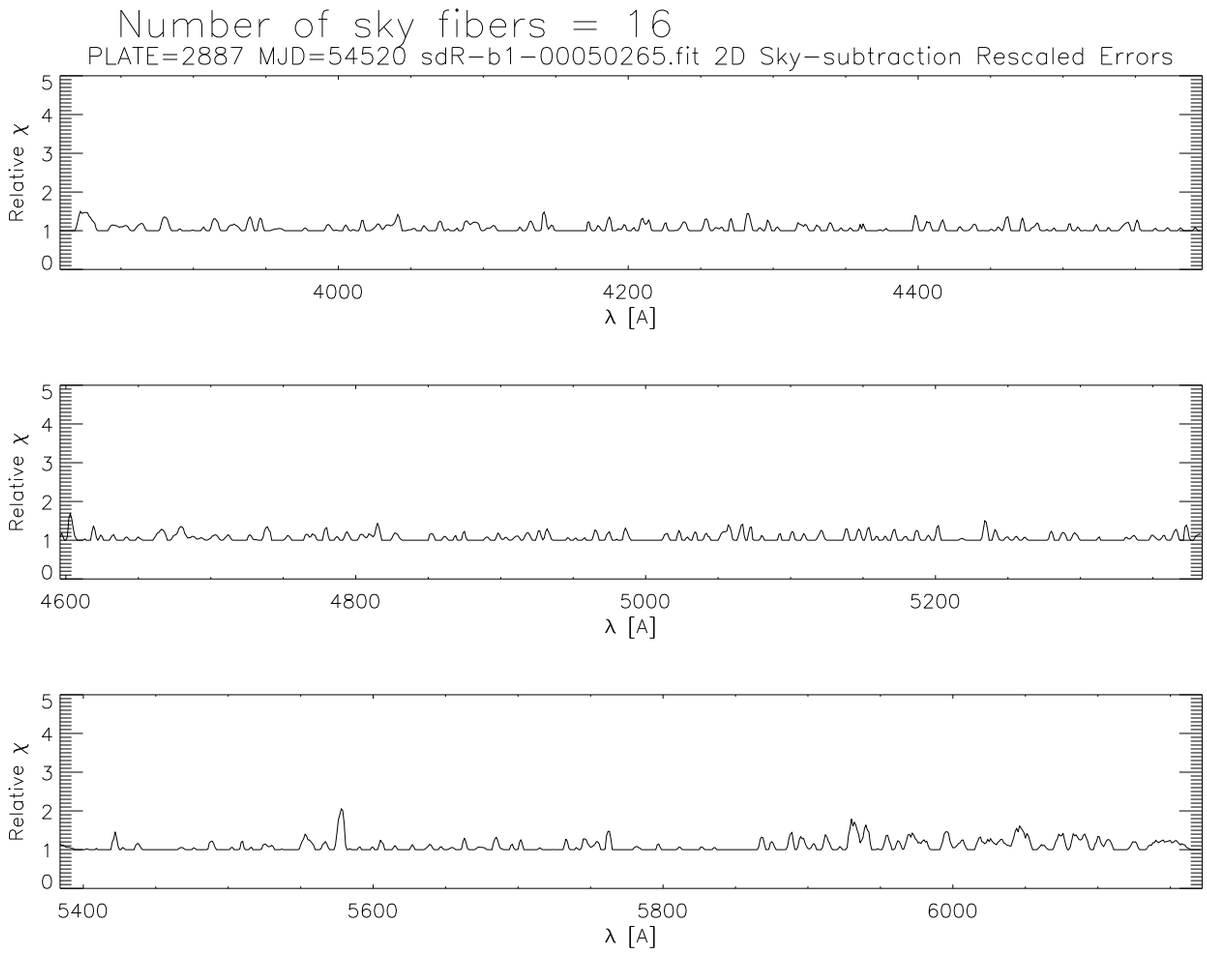

PLATE=2887 MJD=54520 sdR-b1-00050265.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

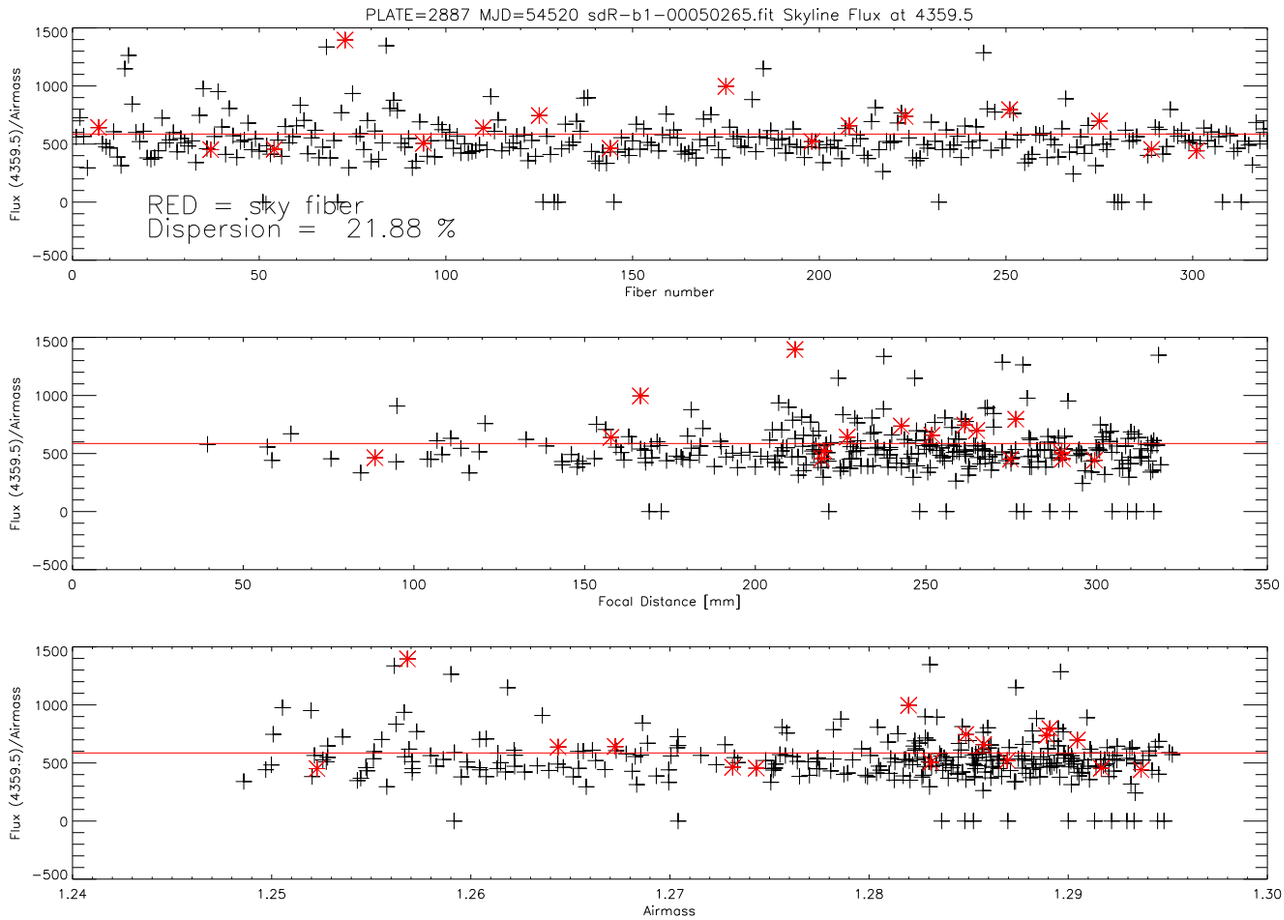

Number of sky fibers = 16
PLATE=2887 MJD=54520 sdR-b1-00050265.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

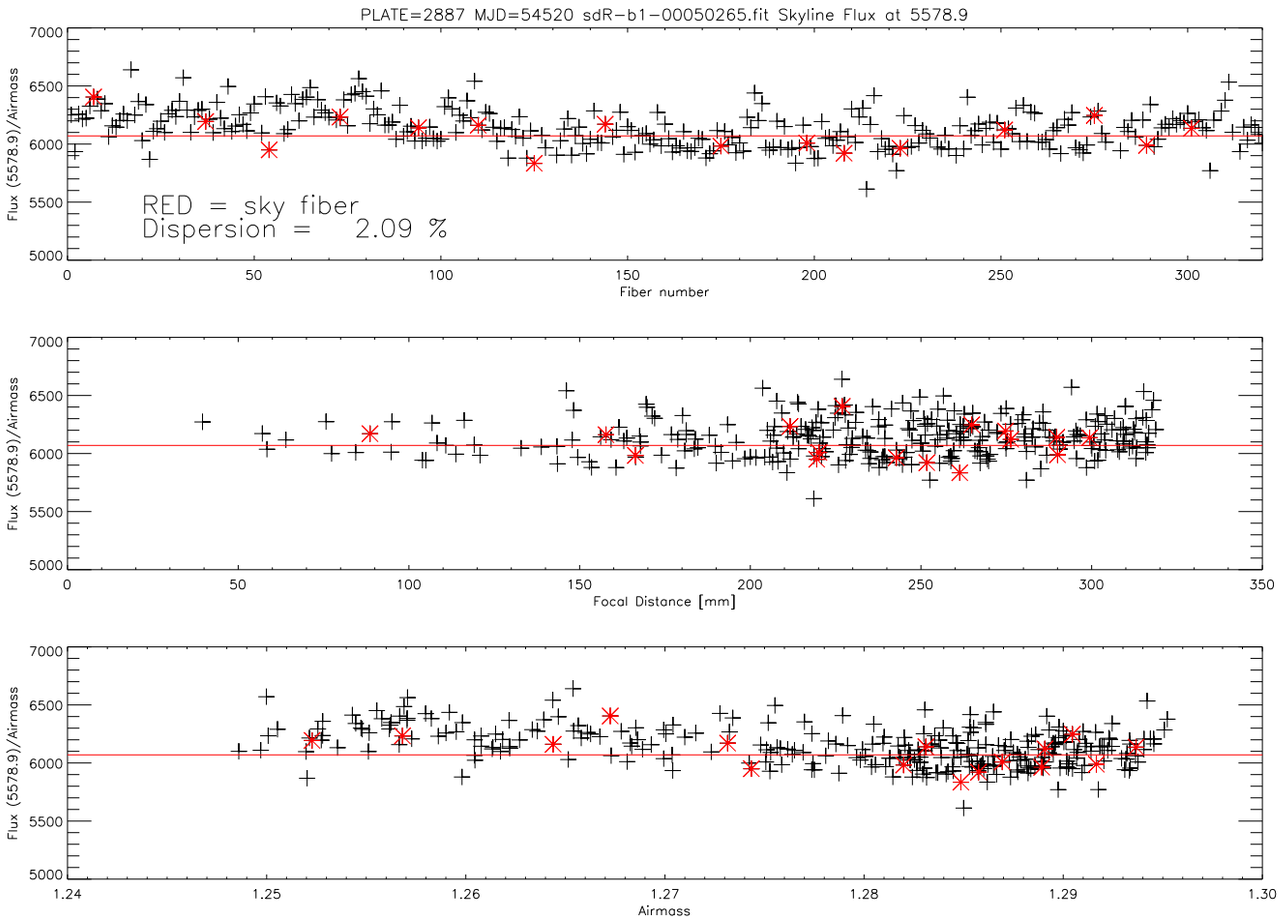

PLATE=2887 MJD=54520 sdR-b1-00050265.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

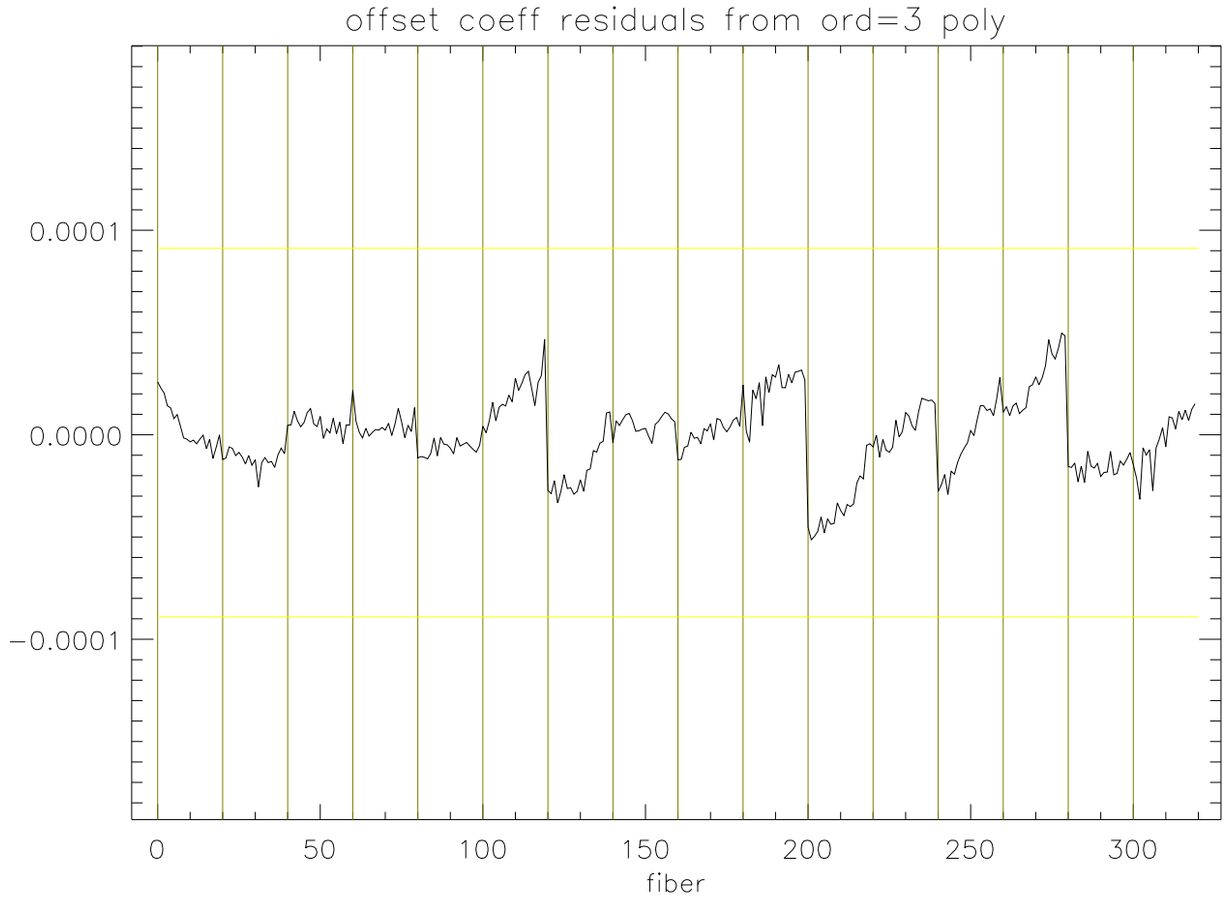

PLATE=2887 MJD=54520 sdR-b1-00050265.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

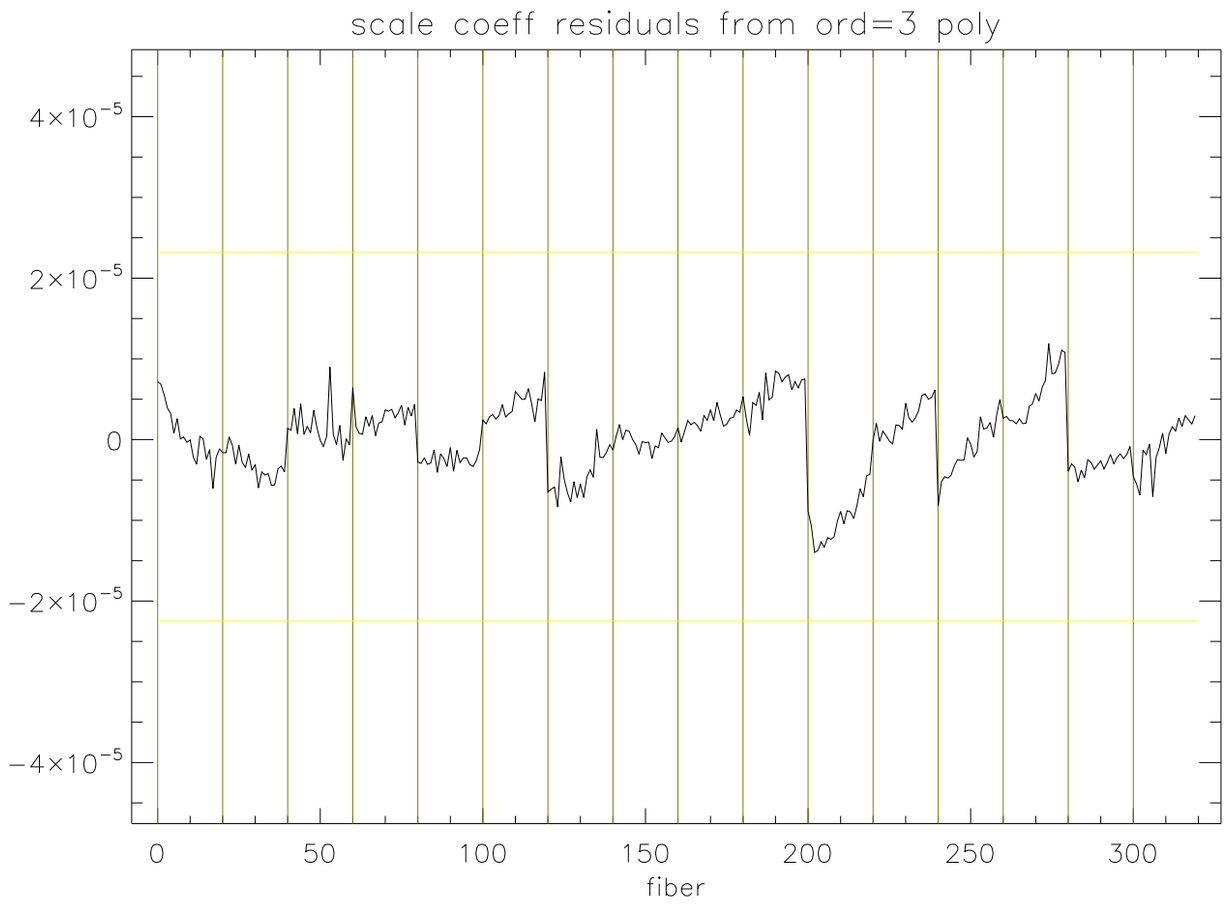

PLATE=2887 MJD=54520 sdR-b1-00050265.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

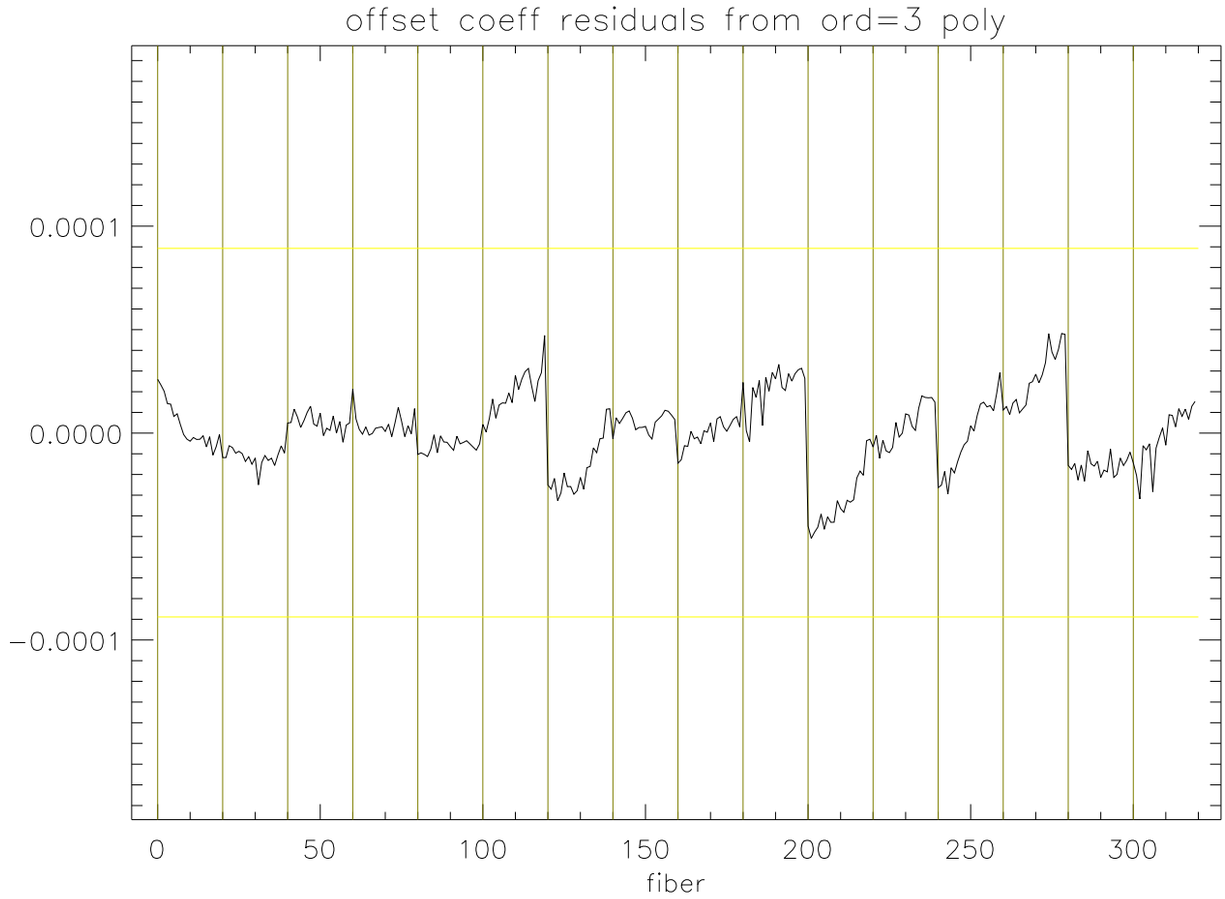

Number of sky fibers = 16
PLATE=2887 MJD=54520 sdR-b1-00050265.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

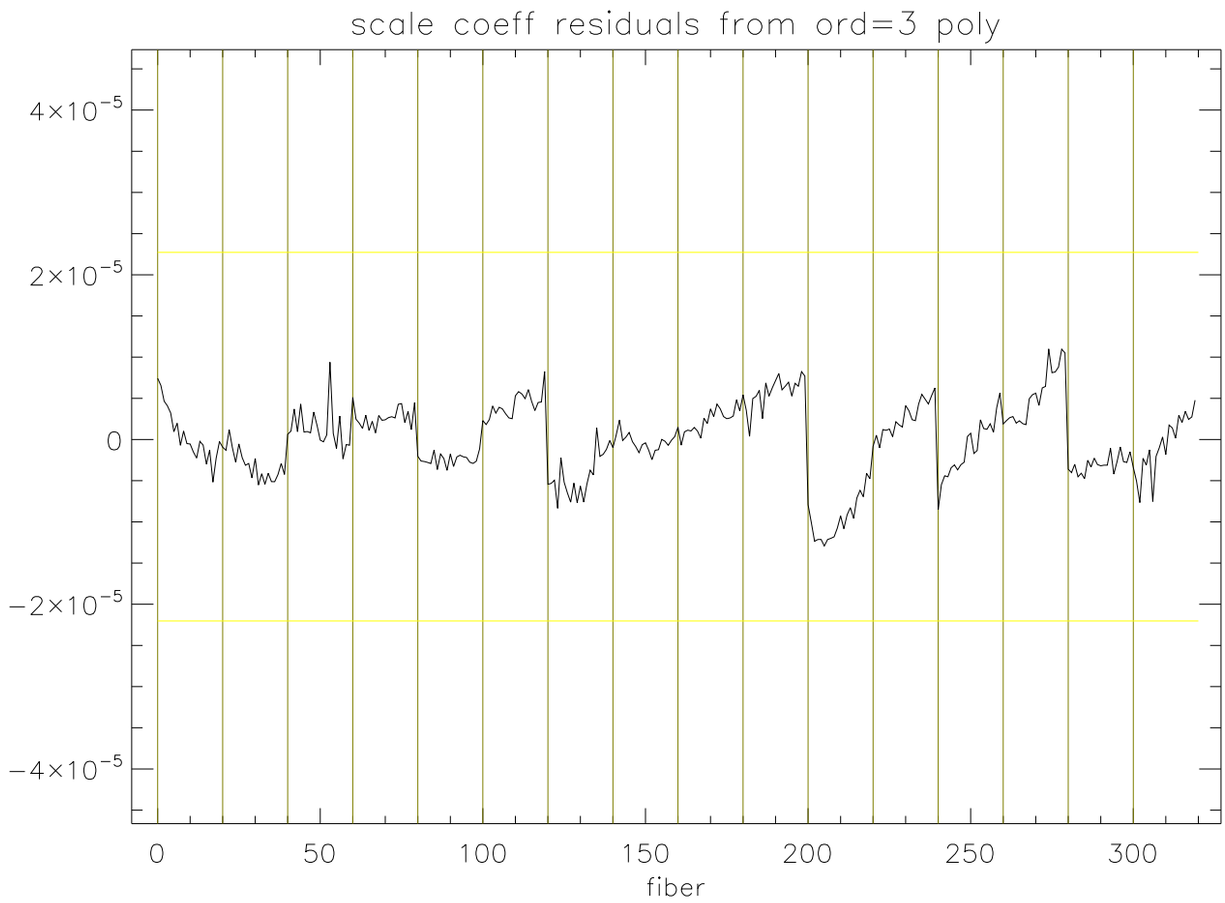

PLATE=2887 MJD=54520 sdR-b1-00050265.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 21.88 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

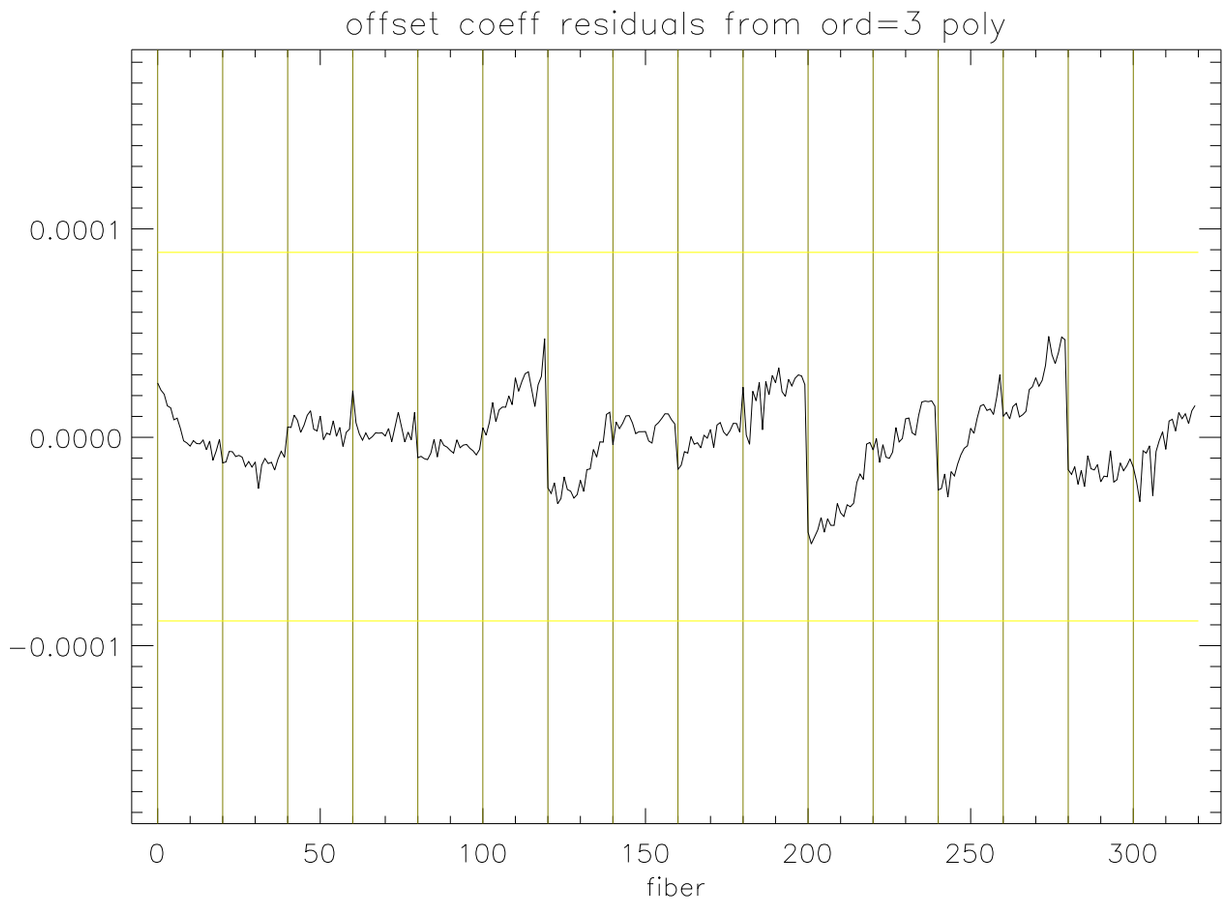

PLATE=2887 MJD=54520 sdR-b1-00050265.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.09 %
Fiber number
Focal Distance [mm]
Airmass

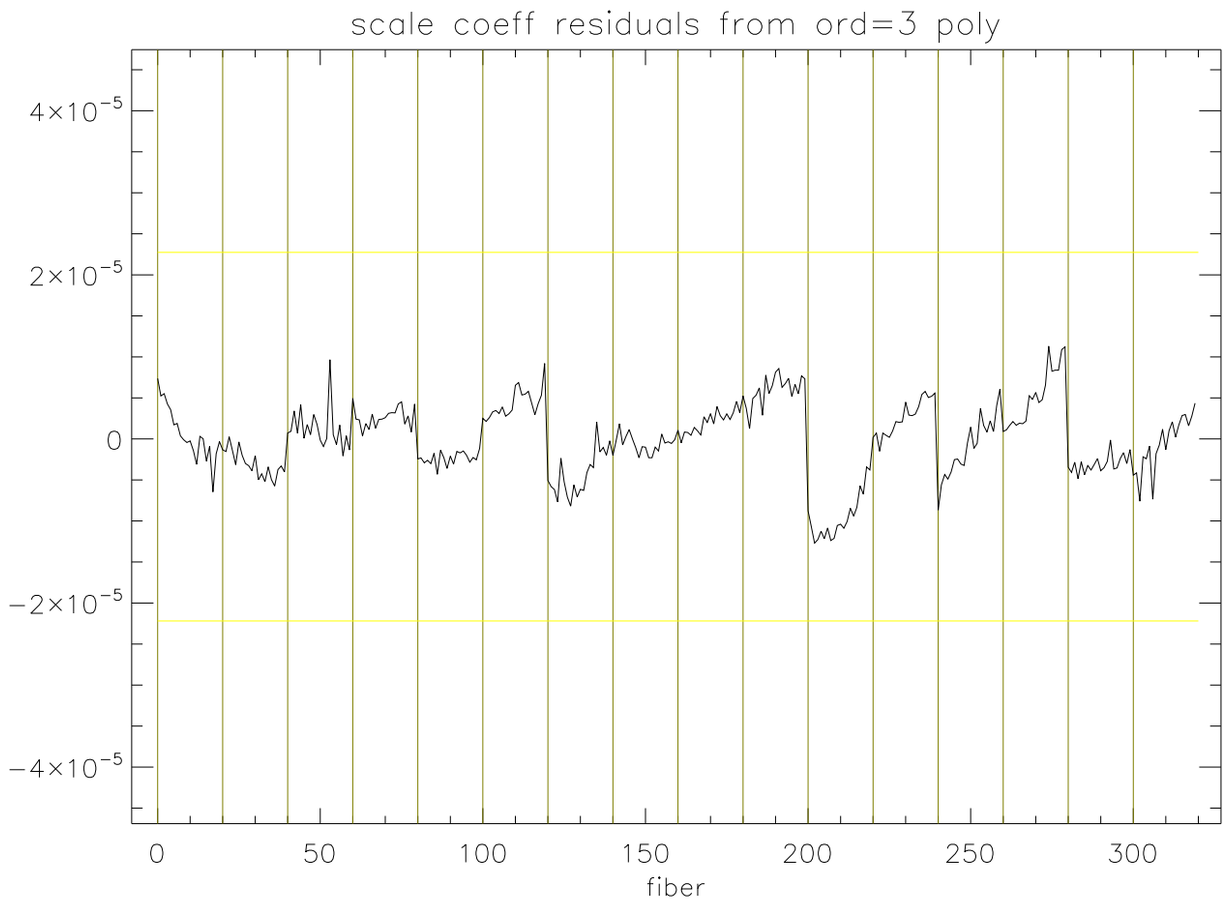

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

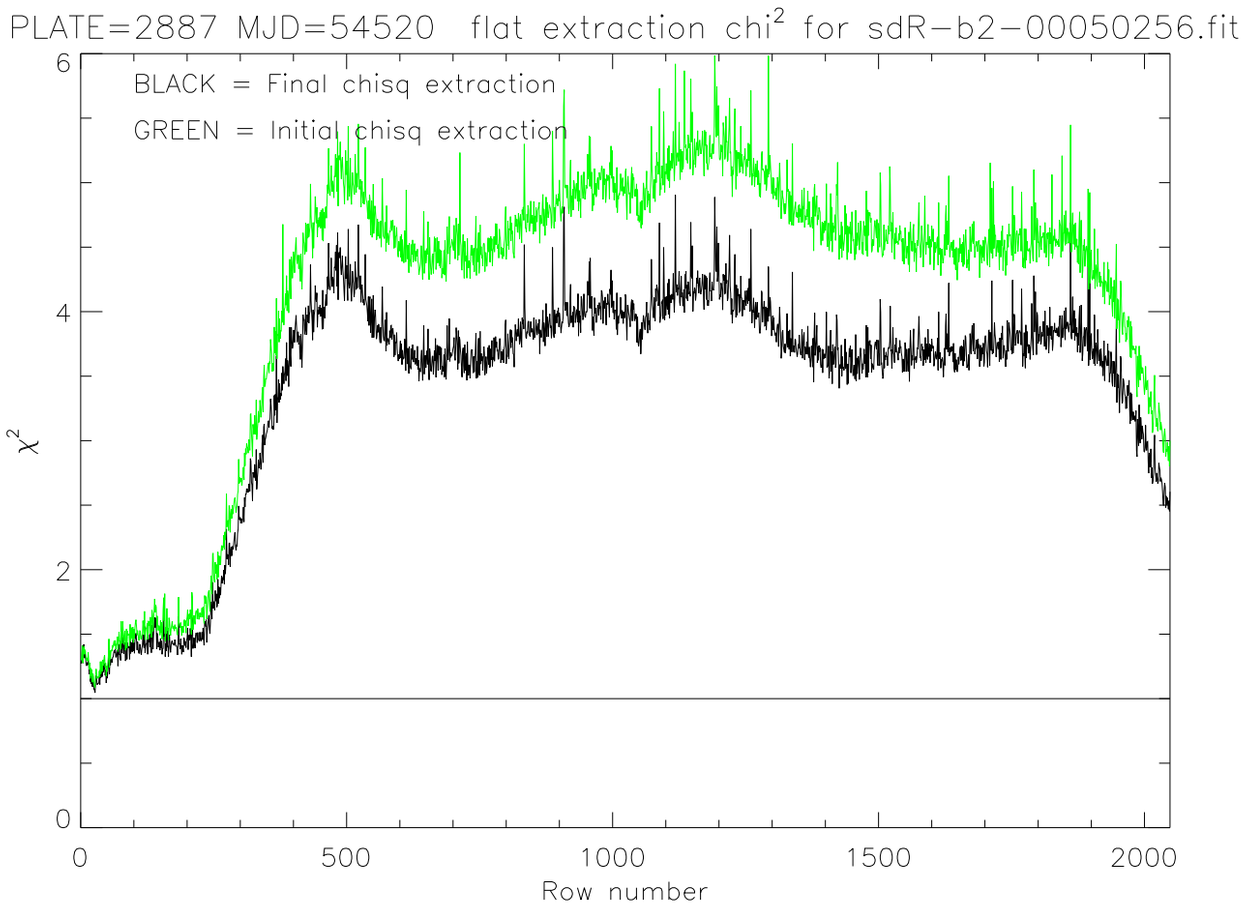

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

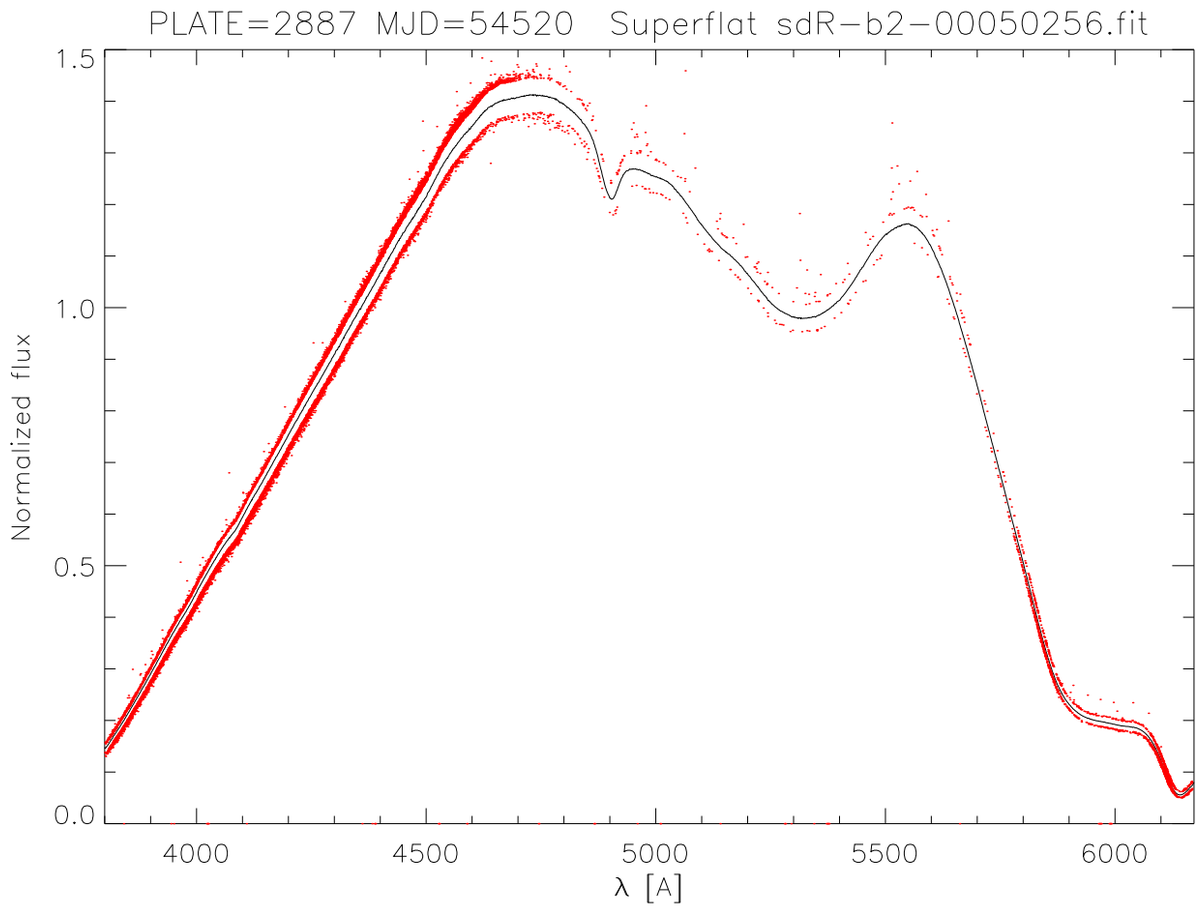

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

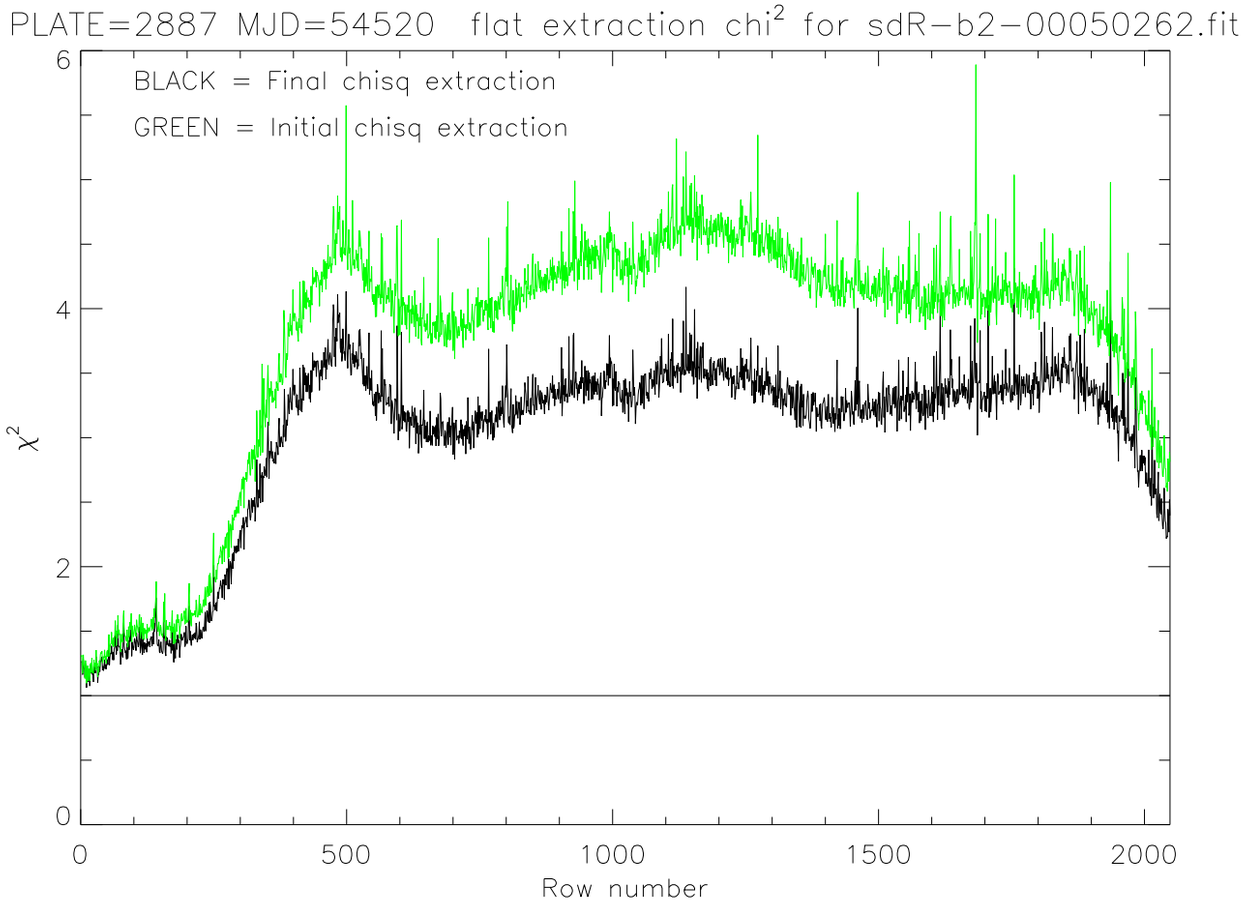

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

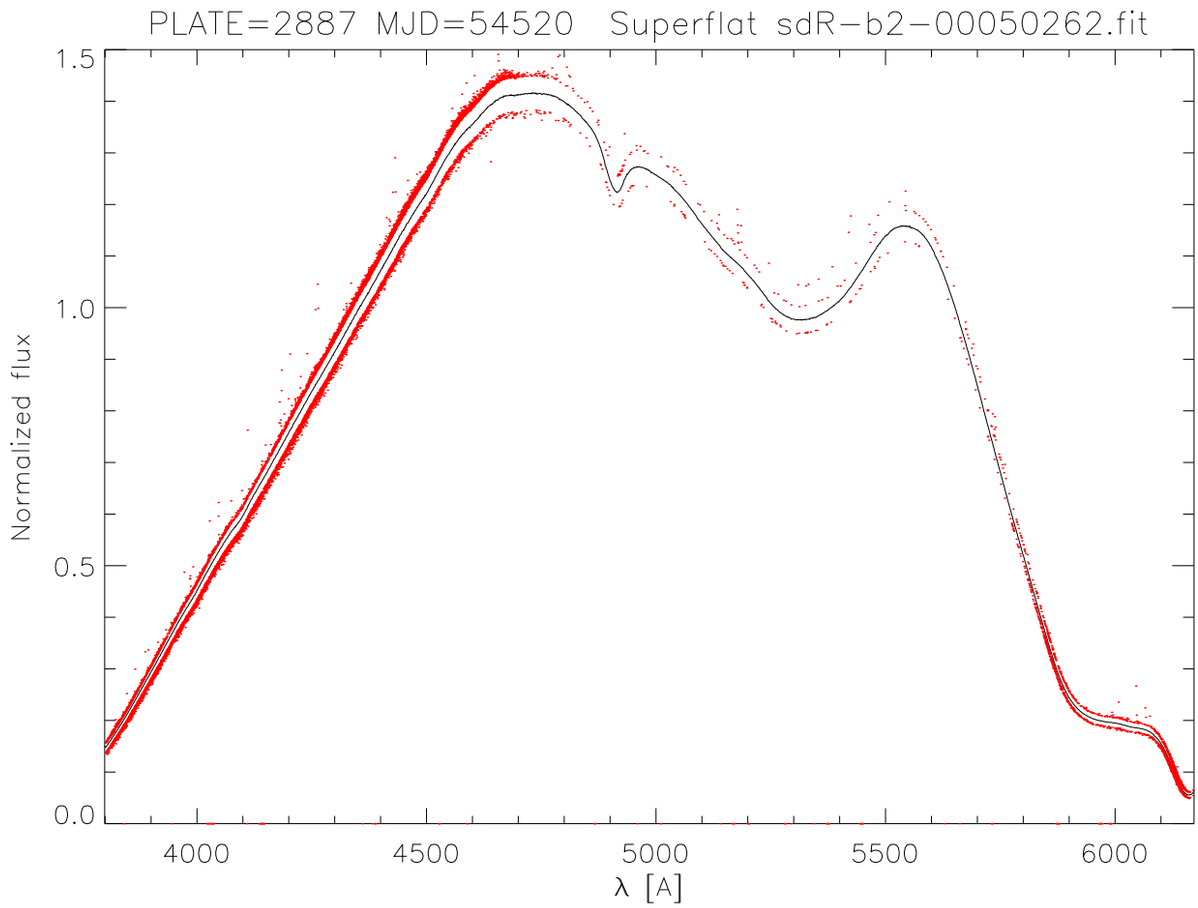

offset coeff residuals from ord=3 poly
0.0001
0.0000
−0.0001
0
50
100
150
200
250
300
fiber

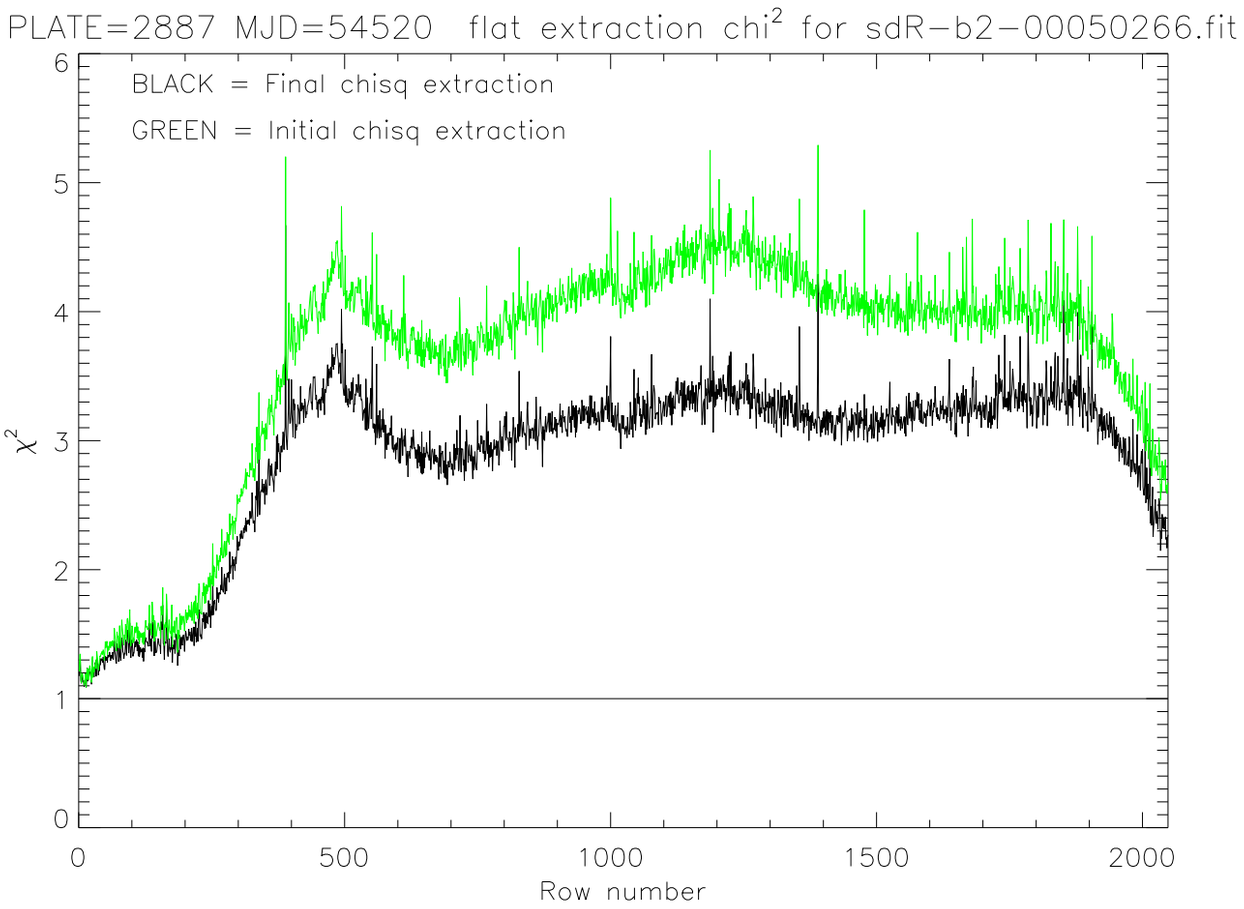

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

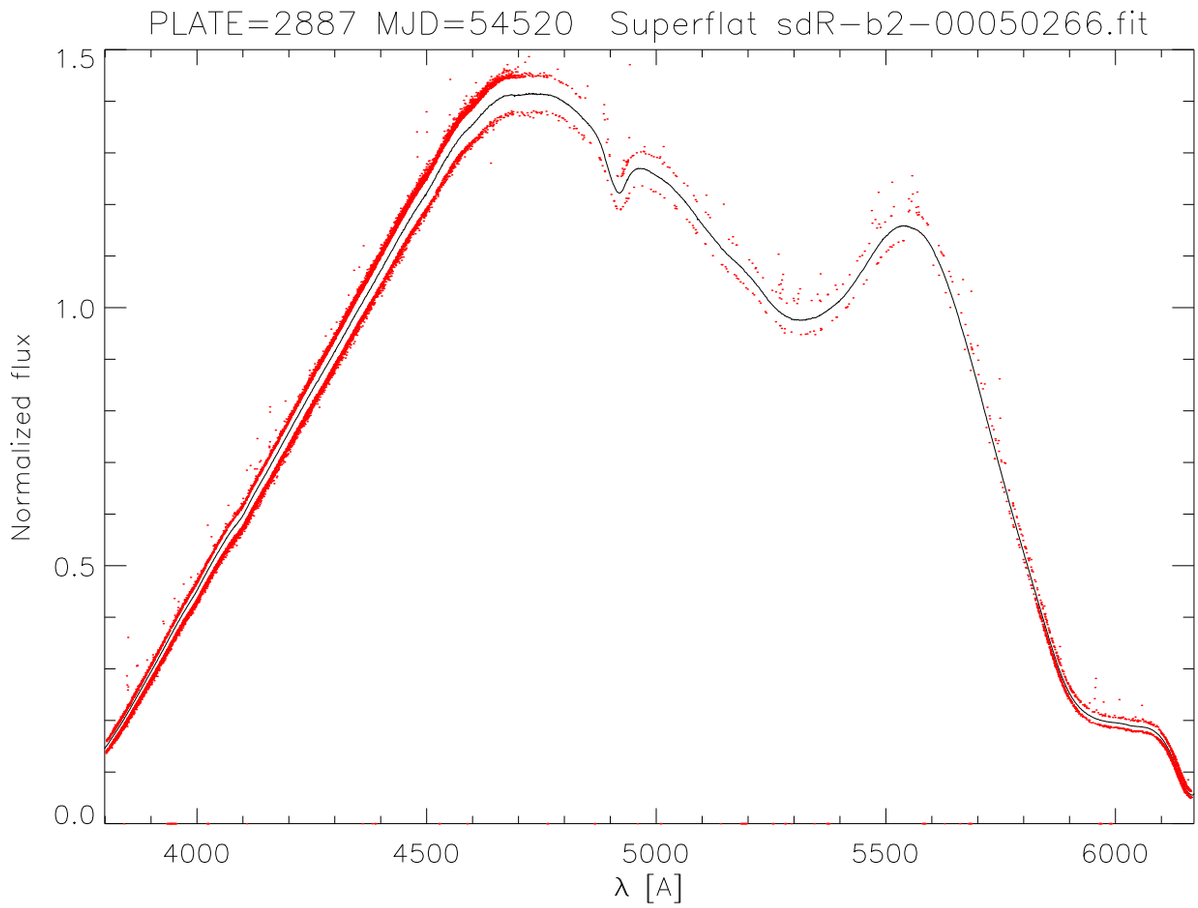

PLATE=2887 MJD=54520 flat extraction chi^2 for sdR-b2-00050256.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
0
500
1000
1500
2000

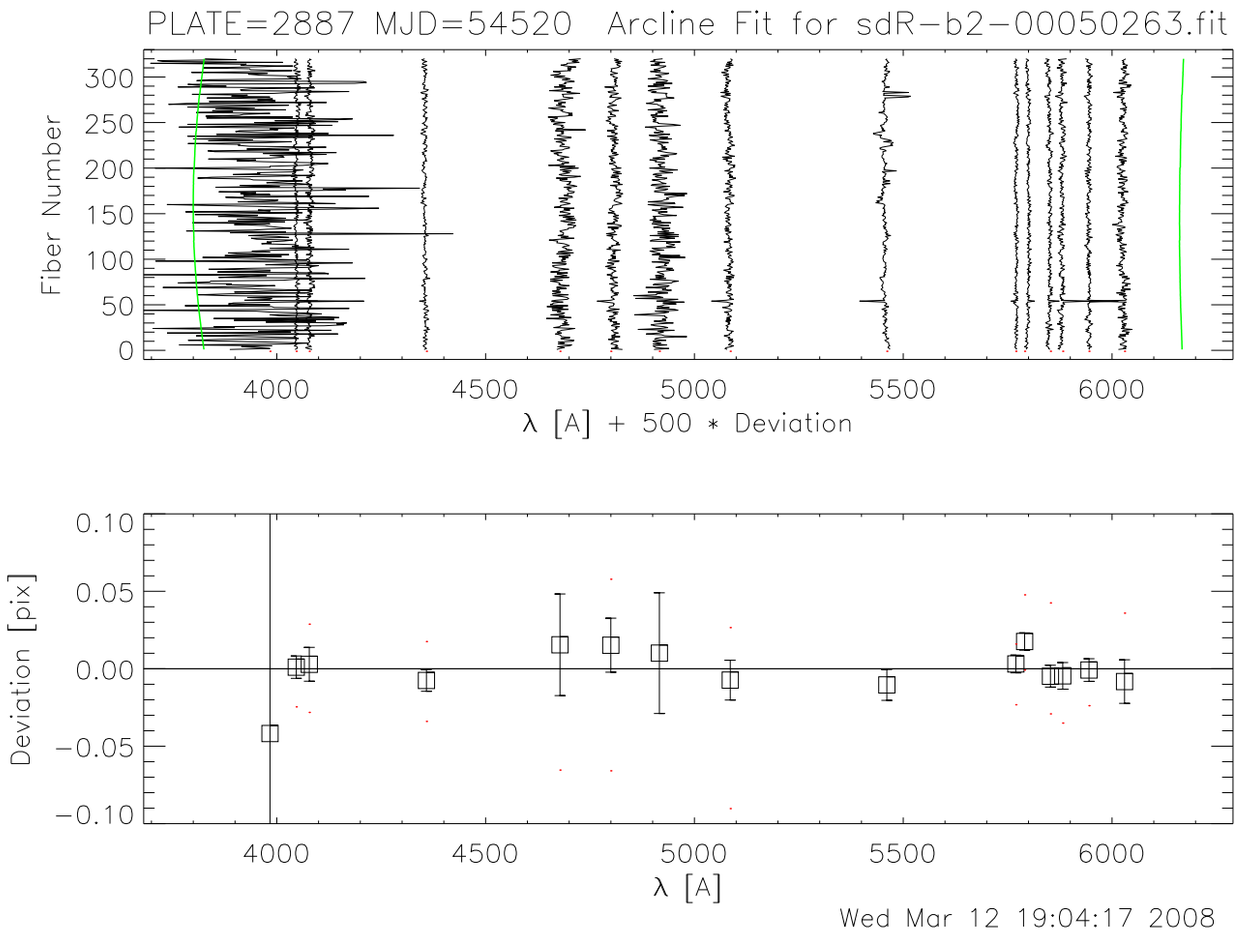

PLATE=2887 MJD=54520 Superflat sdR-b2-00050256.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

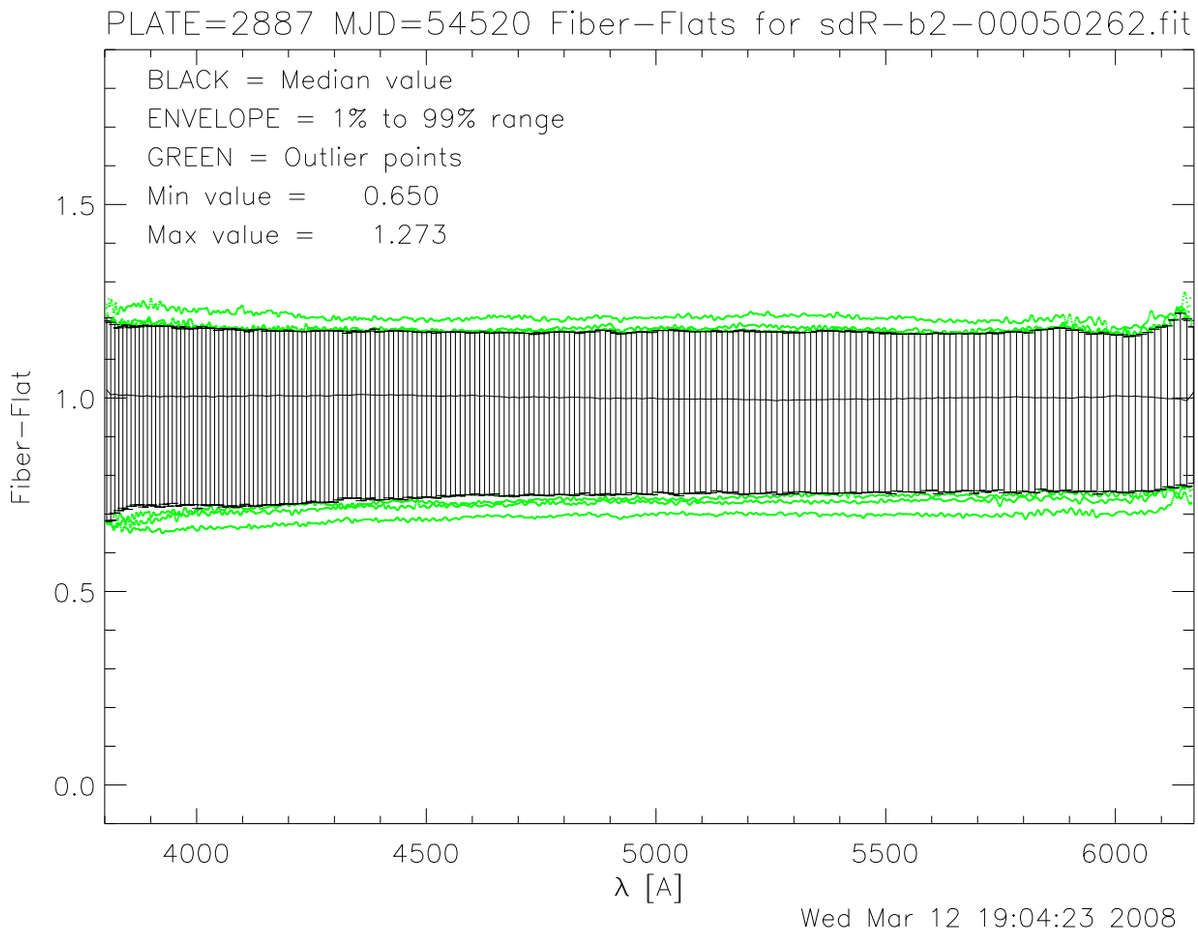

PLATE=2887 MJD=54520 flat extraction chi^2 for sdR-b2-00050262.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
0
500
1000
1500
2000

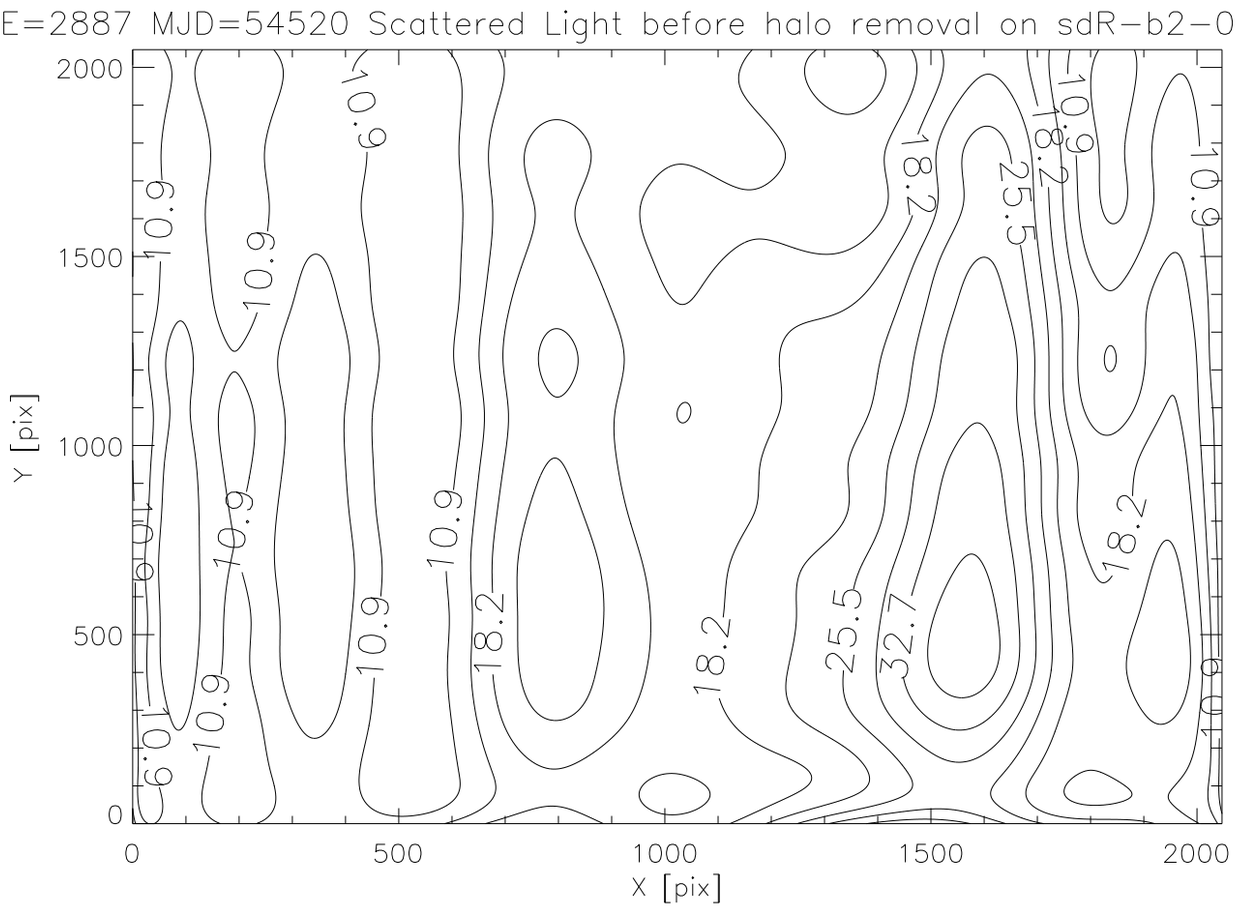

PLATE=2887 MJD=54520 Superflat sdR-b2-00050262.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

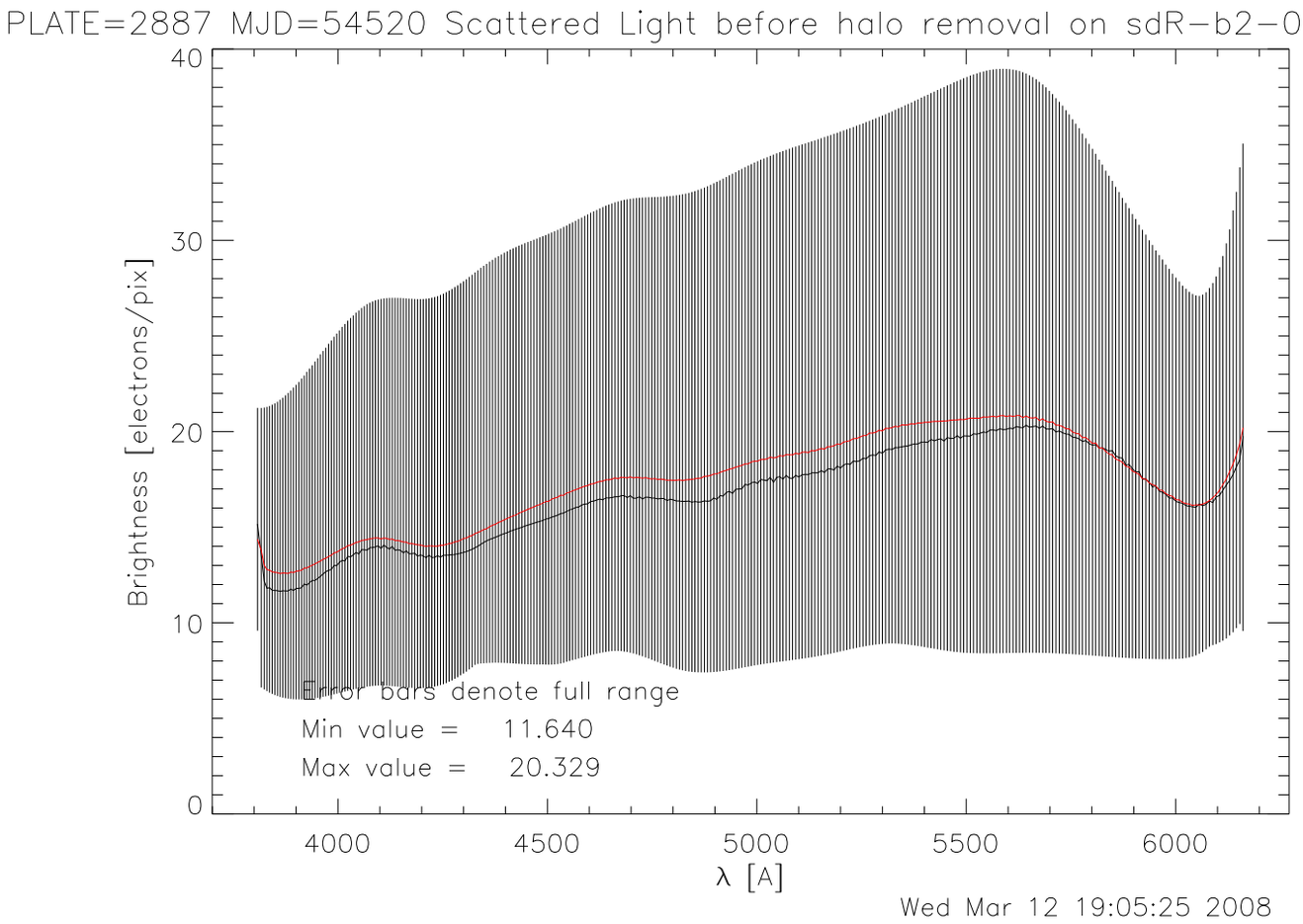

PLATE=2887 MJD=54520 flat extraction chi^2 for sdR-b2-00050266.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

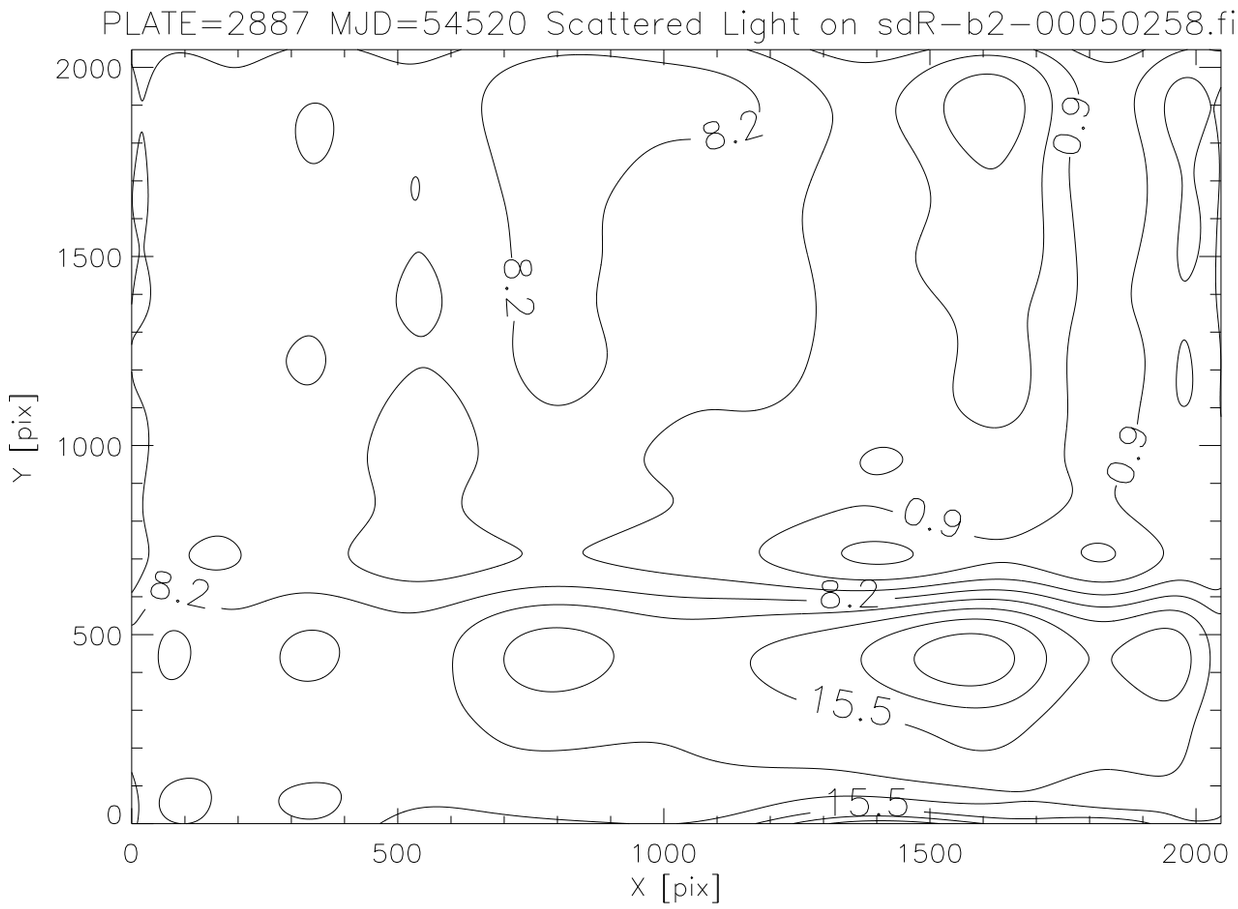

PLATE=2887 MJD=54520 Superflat sdR-b2-00050266.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

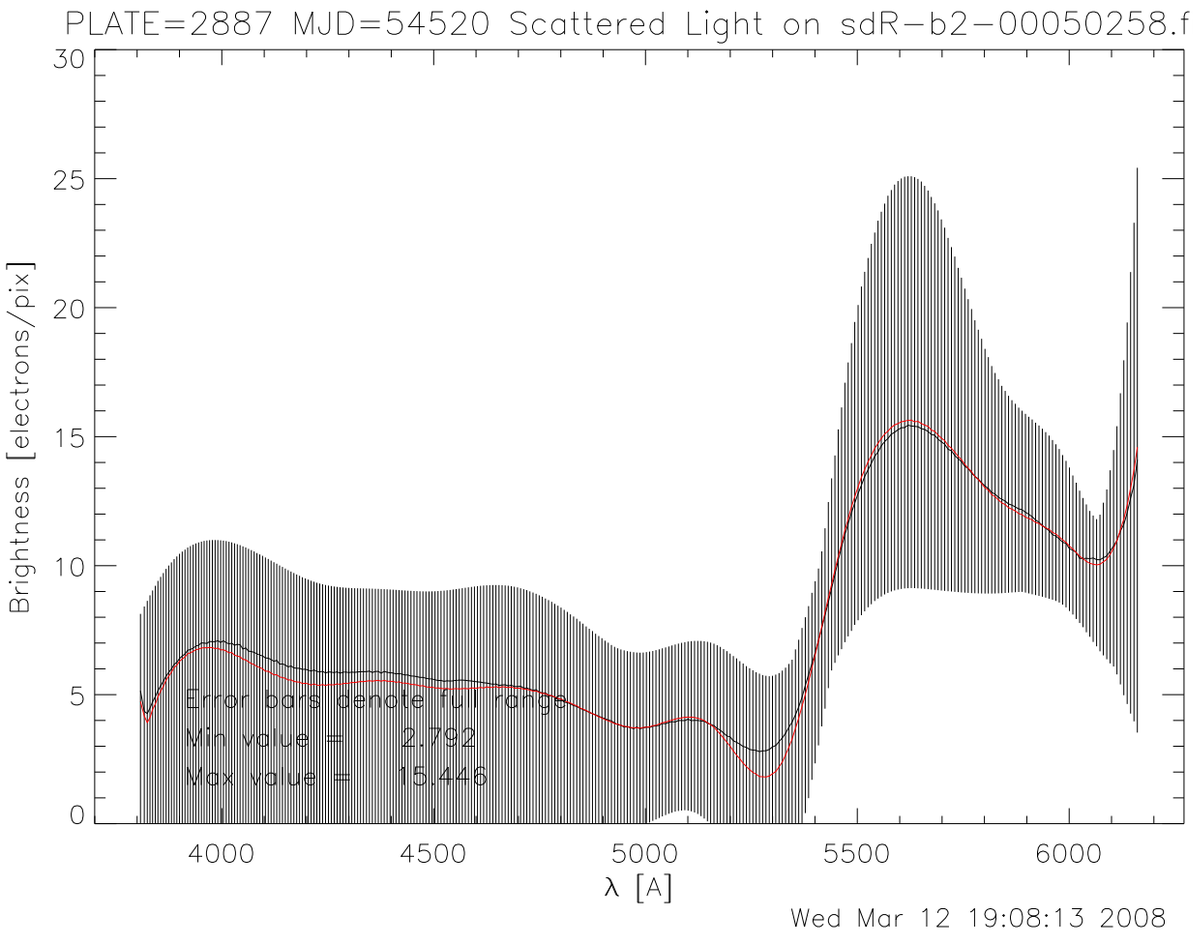

PLATE=2887 MJD=54520 Arcline Fit for sdR-b2-00050263.fit
Fiber Number
300
250
200
150
100
50
0
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:04:17 2008

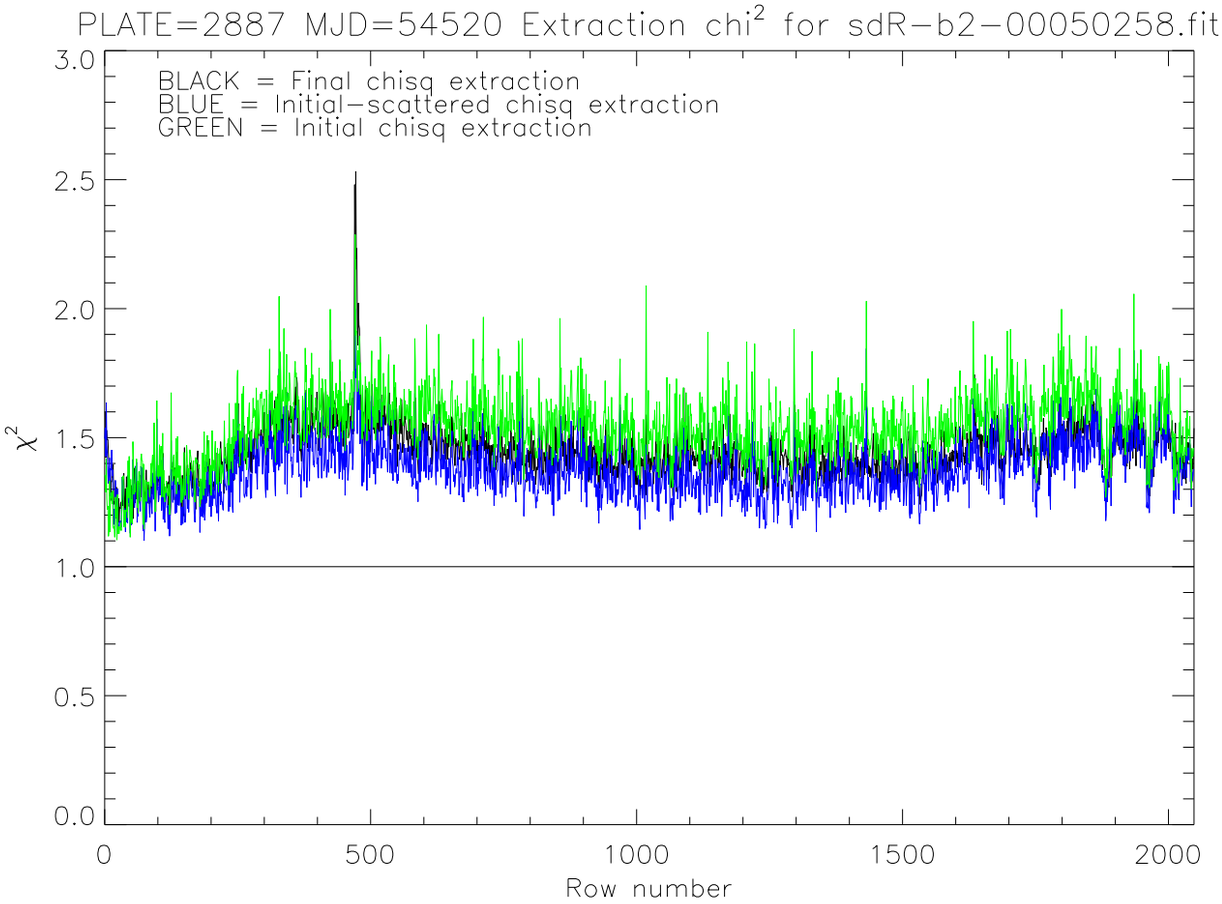

PLATE=2887 MJD=54520 Fiber-Flats for sdR-b2-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.650
Max value = 1.273
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:04:23 2008

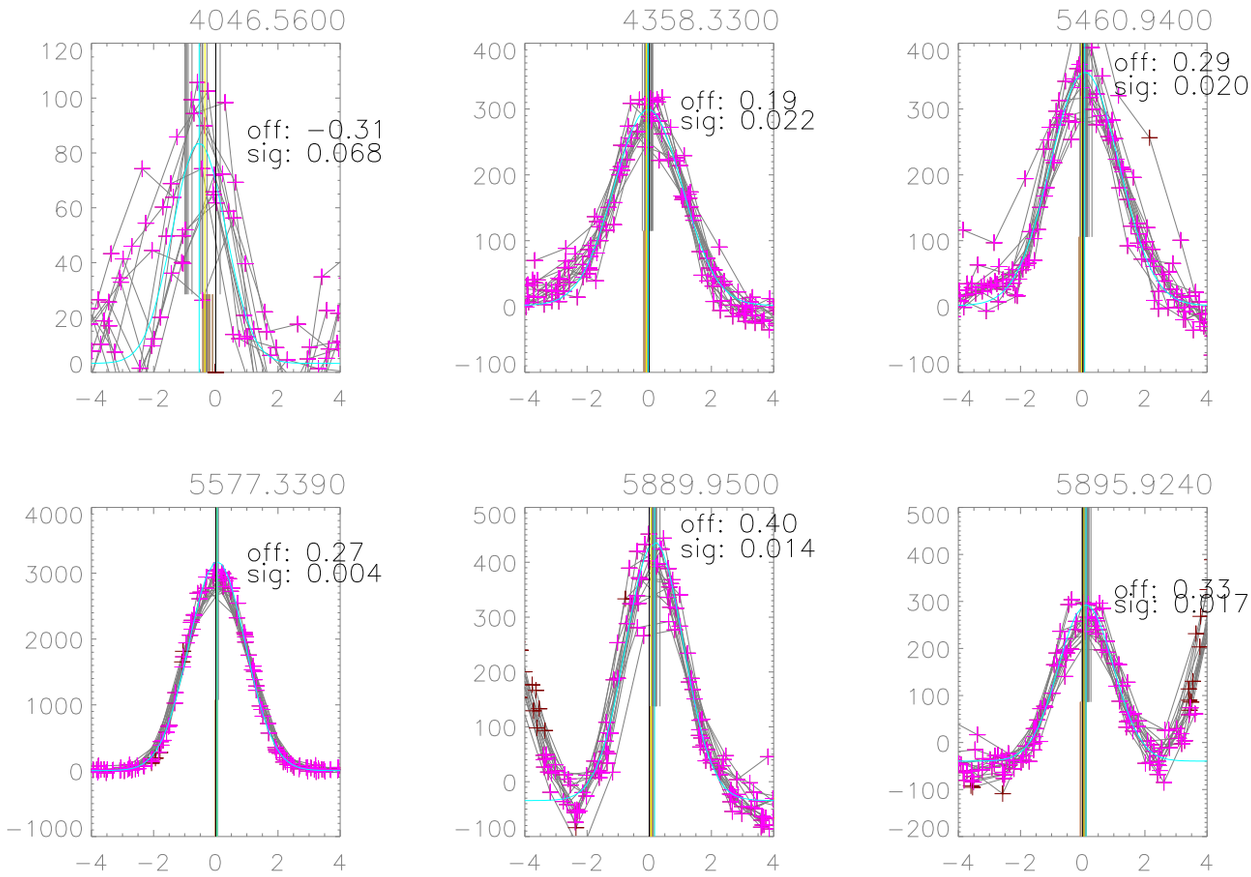

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b2-00050258.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2
25.5
32.7
0

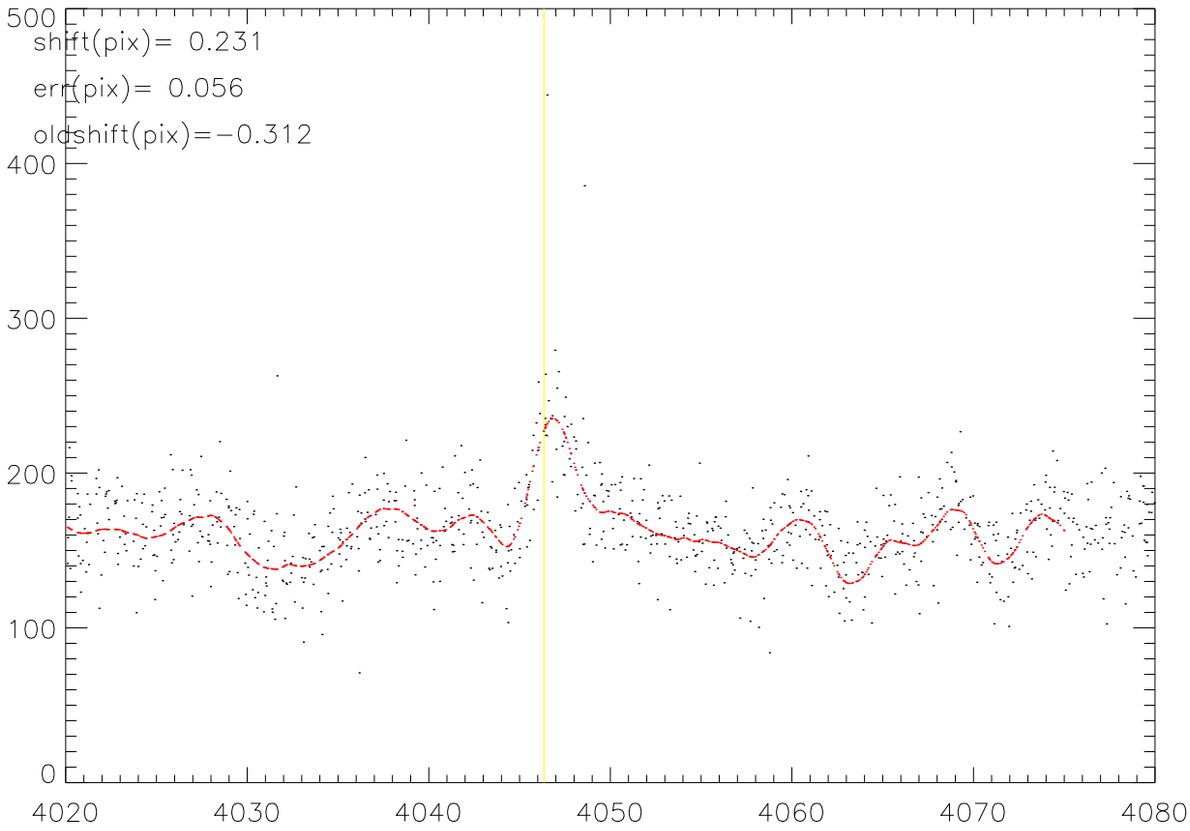

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b2-00050258.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 11.640
Max value = 20.329
Wed Mar 12 19:05:25 2008

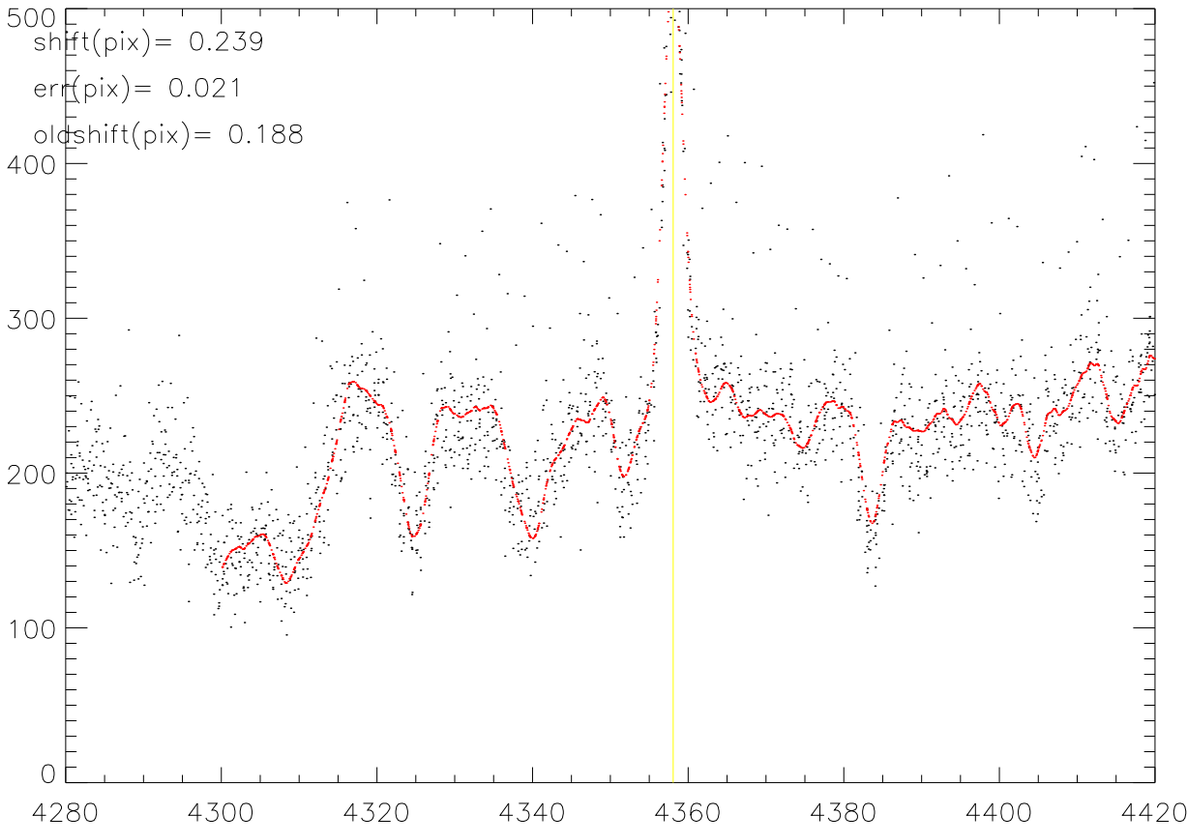

PLATE=2887 MJD=54520 Scattered Light on sdR-b2-00050258.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
8.2
0.9
15.5

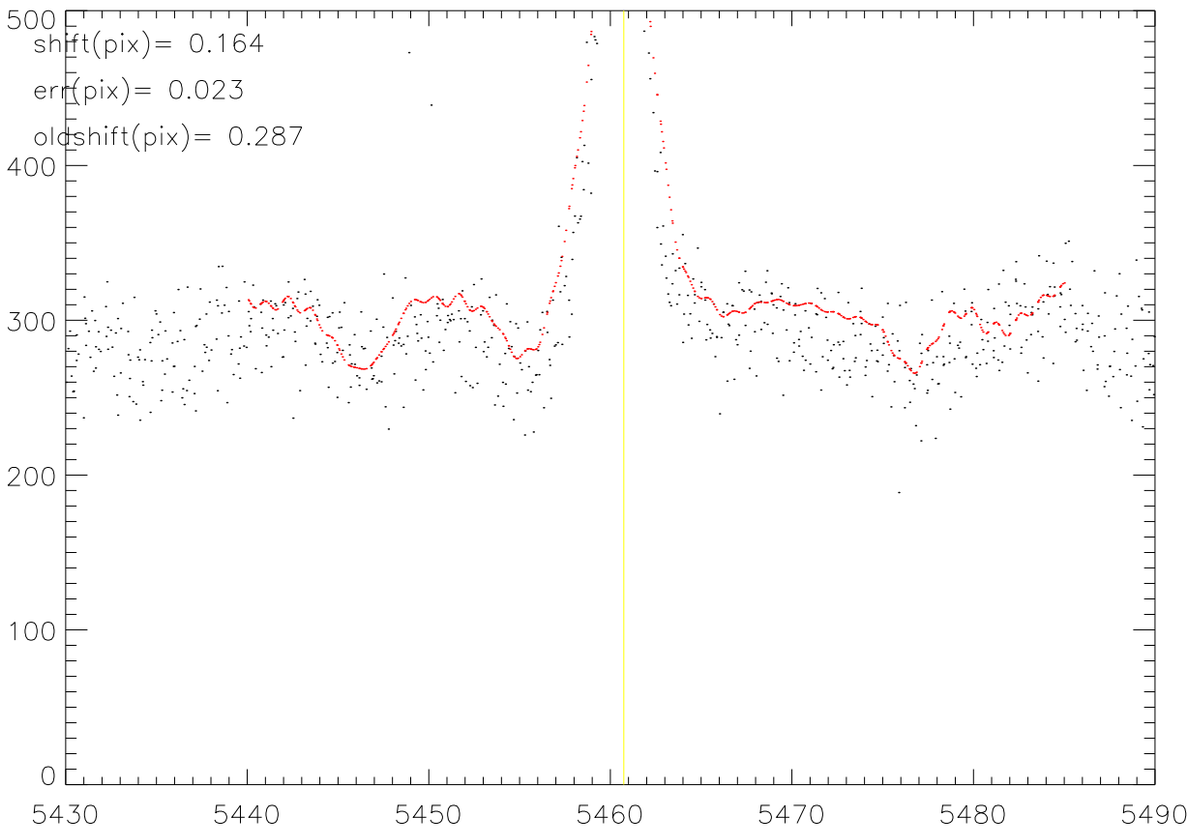

PLATE=2887 MJD=54520 Scattered Light on sdR-b2-00050258.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 2.792
Max value = 15.446
Wed Mar 12 19:08:13 2008

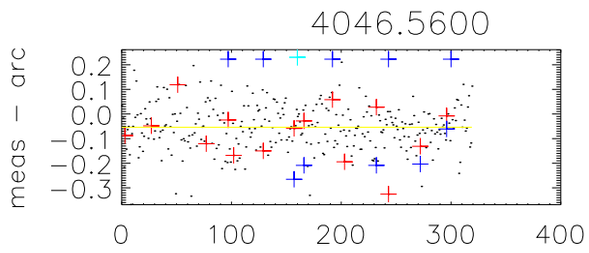

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-b2-00050258.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

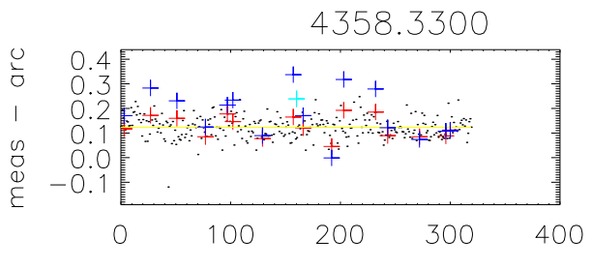

4046.5600
off: −0.31
sig: 0.068
4358.3300
off: 0.19
sig: 0.022
5460.9400
off: 0.29
sig: 0.020
5577.3390
off: 0.27
sig: 0.004
5889.9500
off: 0.40
sig: 0.014
5895.9240
off: 0.33
sig: 0.017

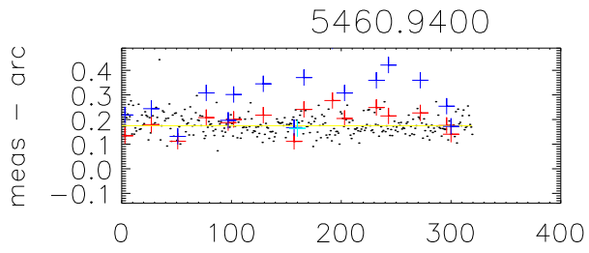

shift(pix)= 0.231
err(pix)= 0.056
oldshift(pix)=-0.312
500
400
300
200
100
0
4020
4030
4040
4050
4060
4070
4080

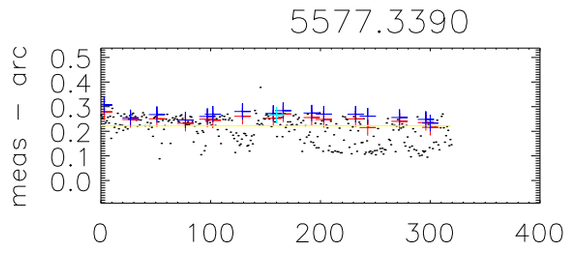

shift(pix)= 0.239
err(pix)= 0.021
oldshift(pix)= 0.188
500
400
300
200
100
0
4280
4300
4320
4340
4360
4380
4400
4420

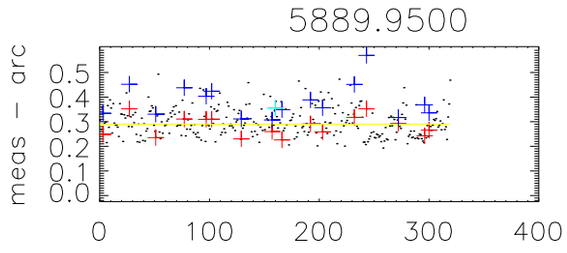

shift(pix)= 0.164
err(pix)= 0.023
oldshift(pix)= 0.287
500
400
300
200
100
0
5430
5440
5450
5460
5470
5480
5490

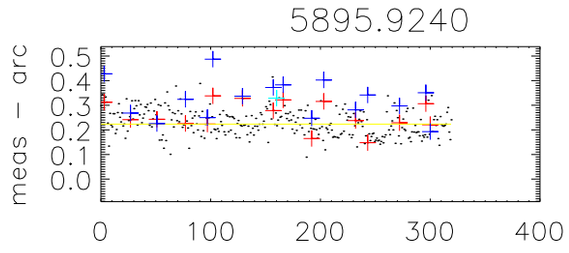

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

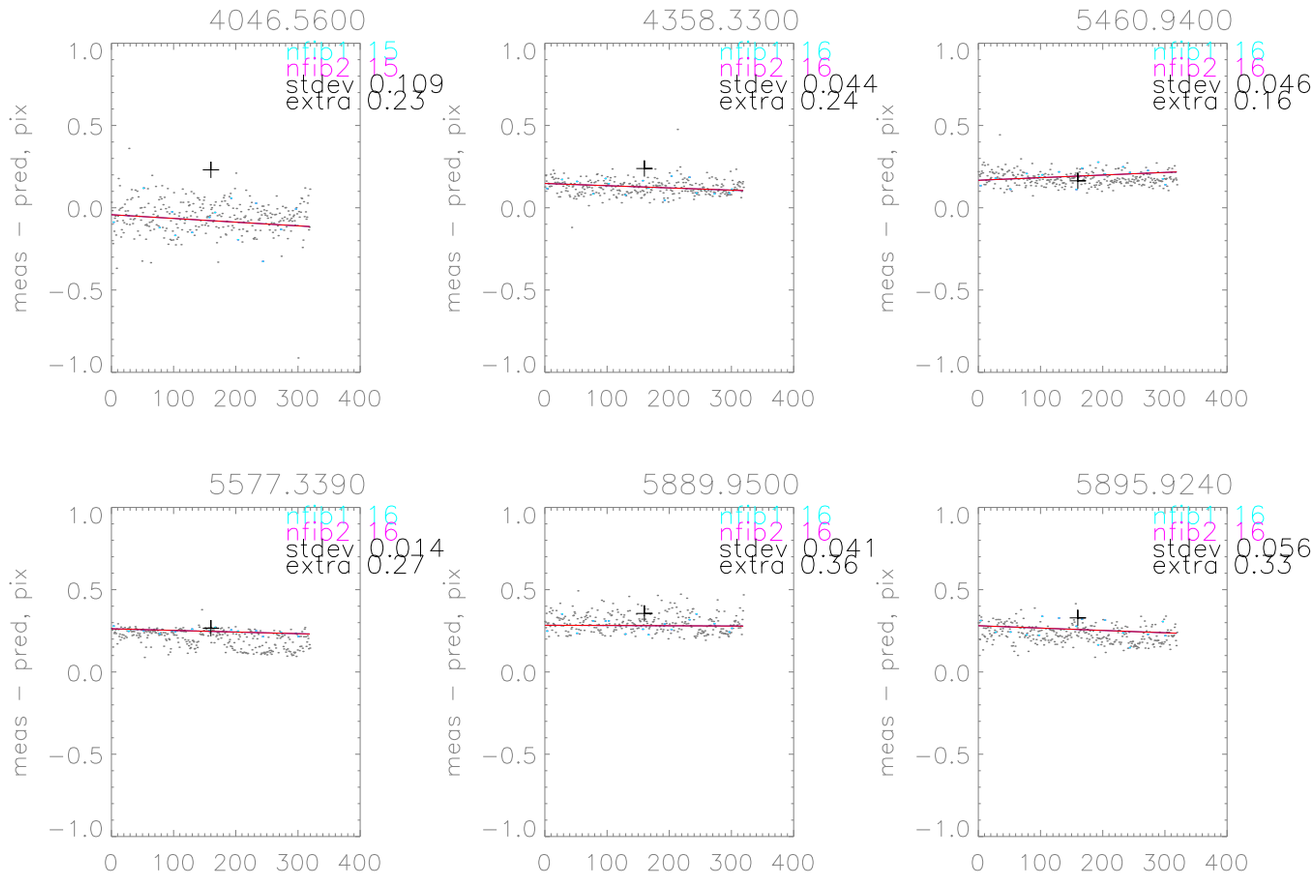

4358.3300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

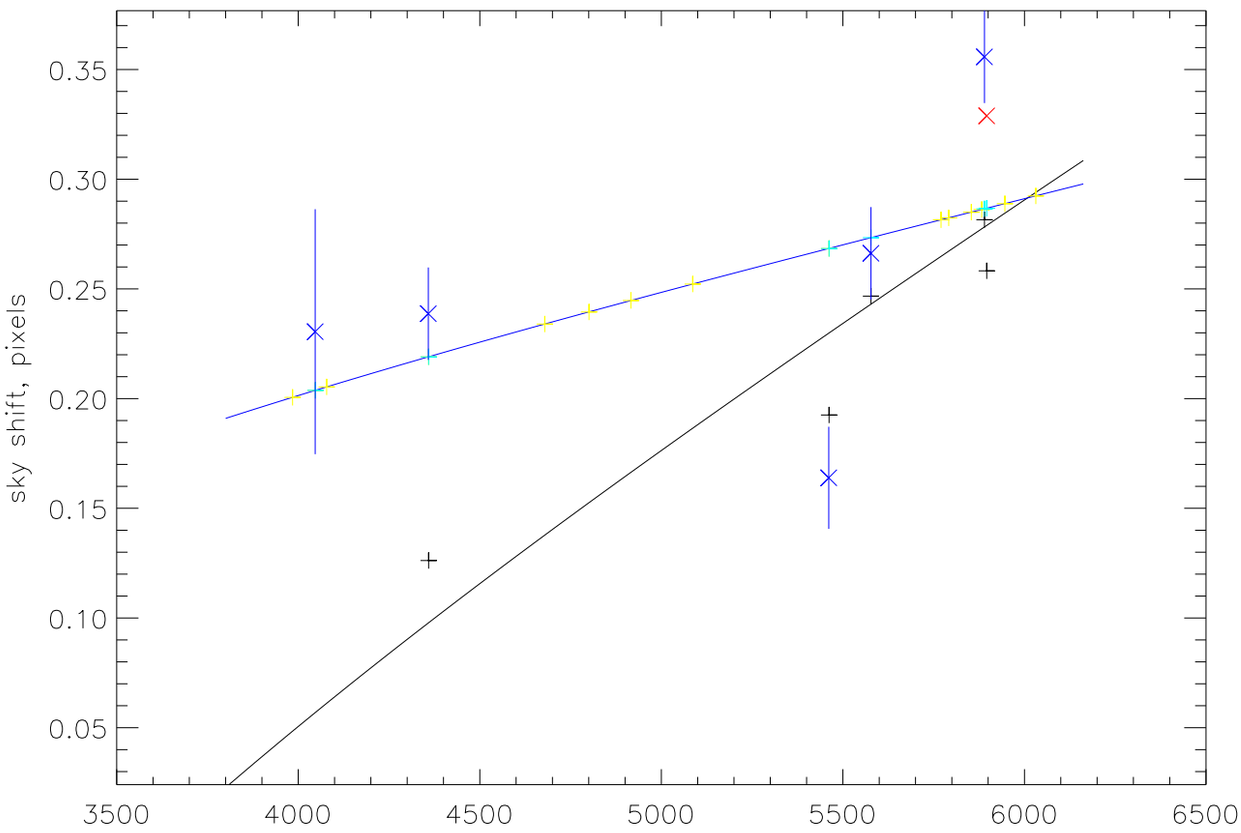

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

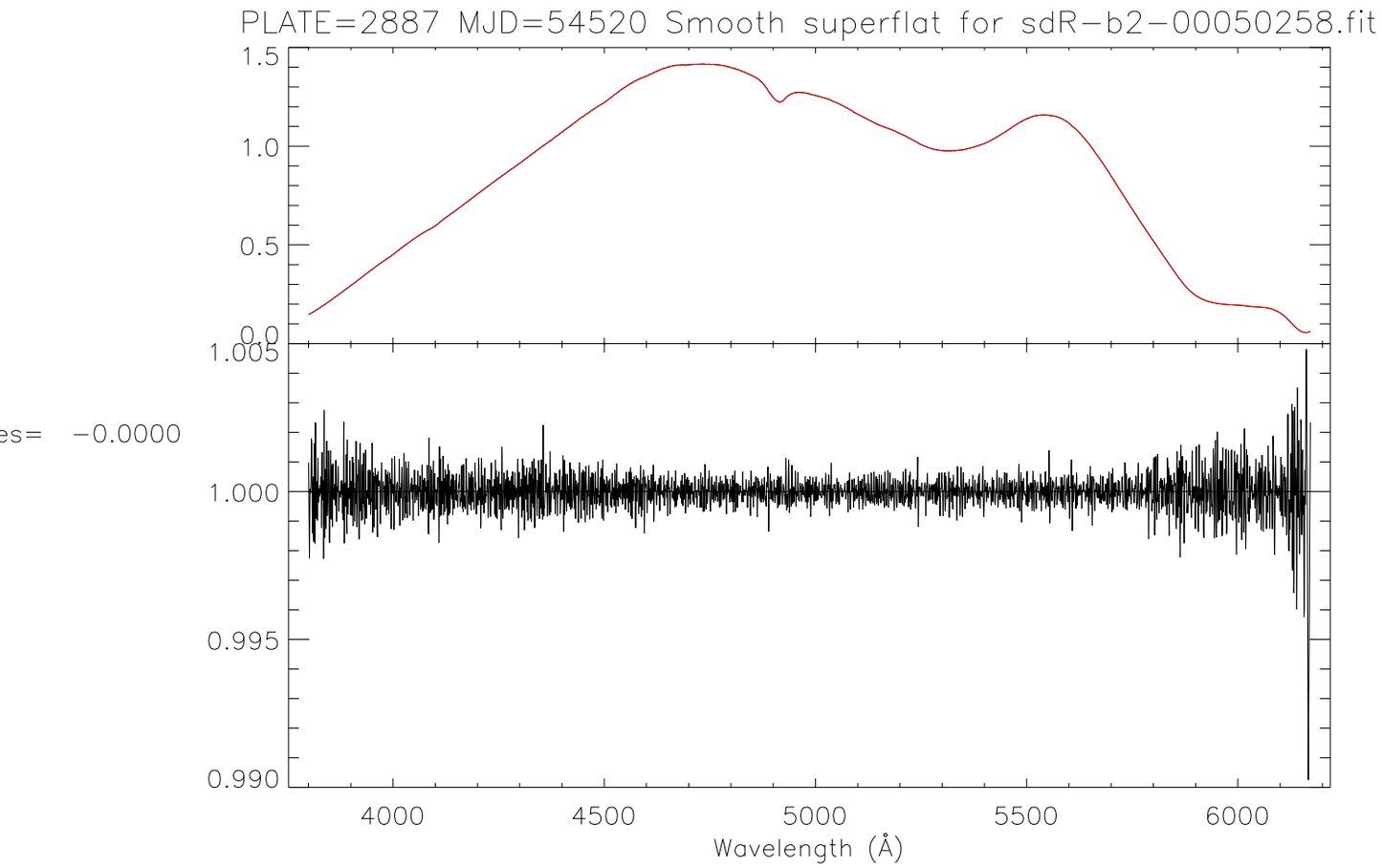

5577.3390
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

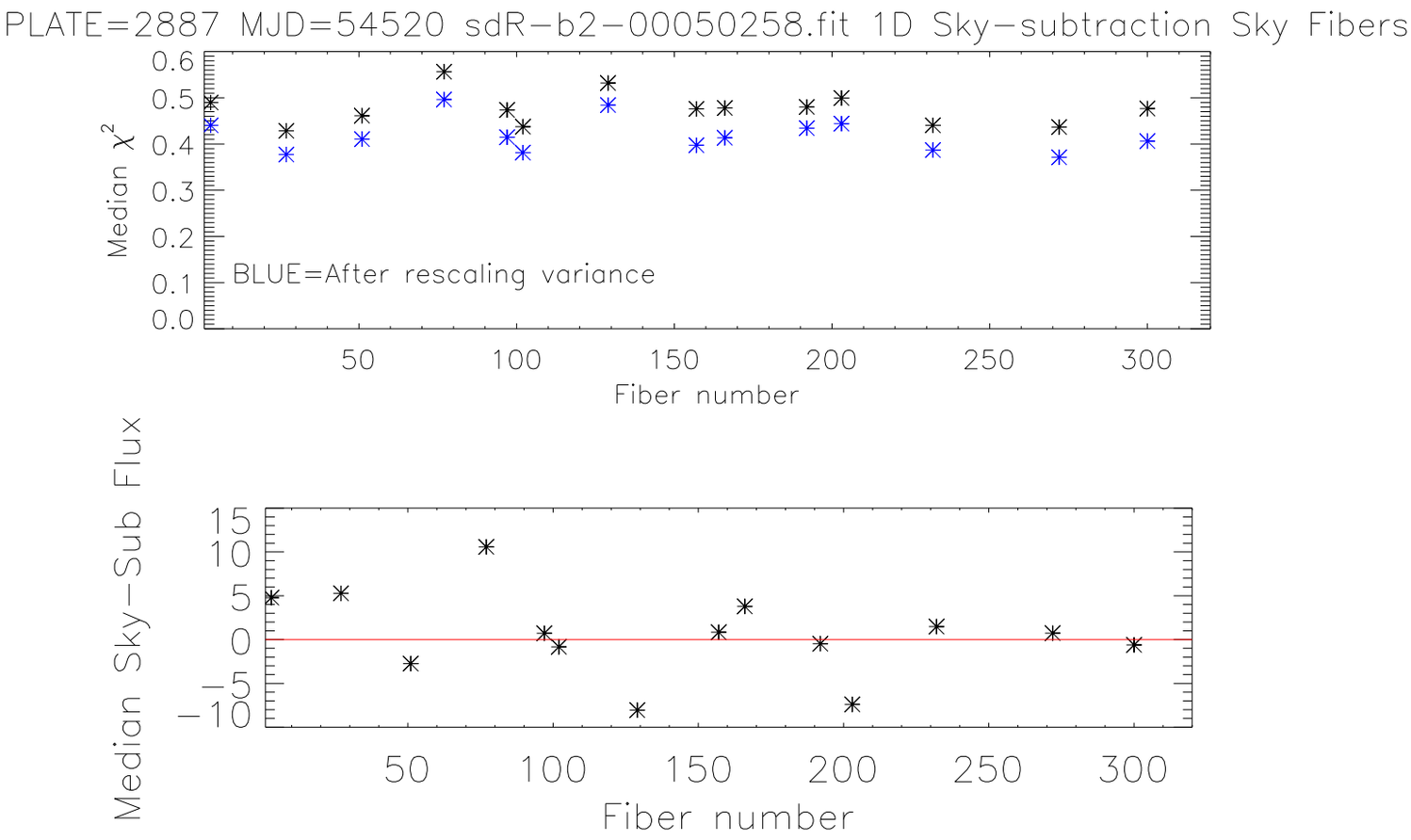

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

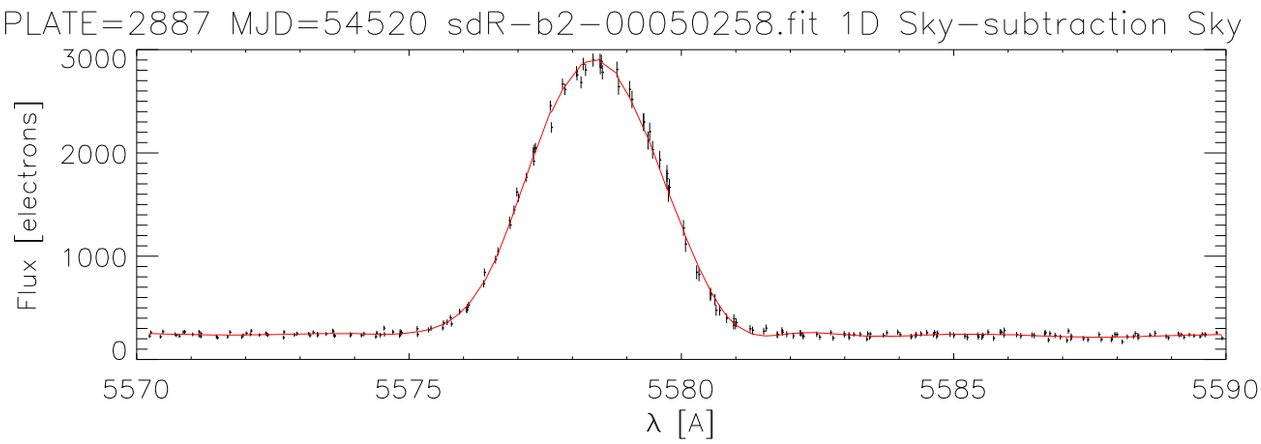

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

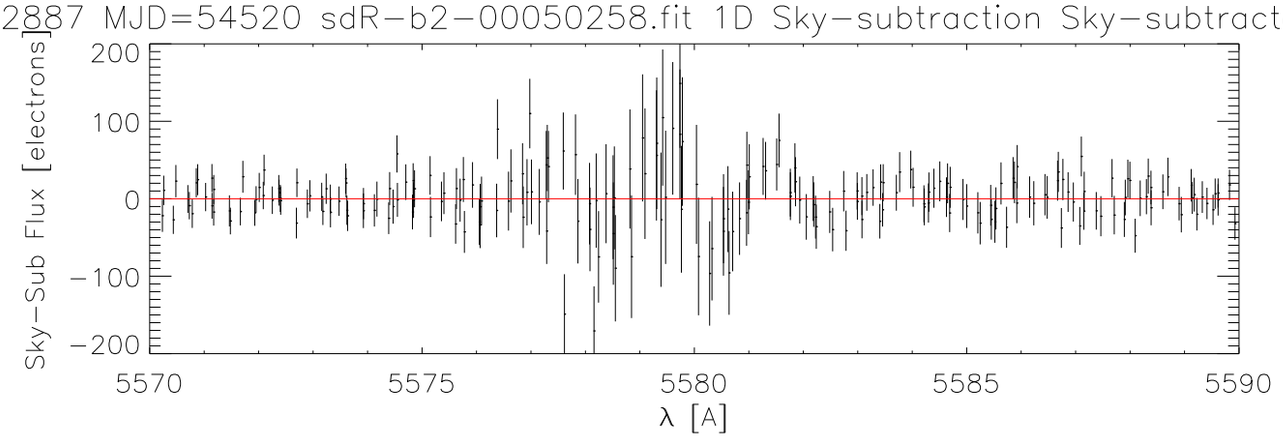

4046.5600
nfib1 15
nfib2 15
stdev 0.109
extra 0.23
4358.3300
nfib1 16
nfib2 16
stdev 0.044
extra 0.24
5460.9400
nfib1 16
nfib2 16
stdev 0.046
extra 0.16
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra 0.27
5889.9500
nfib1 16
nfib2 16
stdev 0.041
extra 0.36
5895.9240
nfib1 16
nfib2 16
stdev 0.056
extra 0.33
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

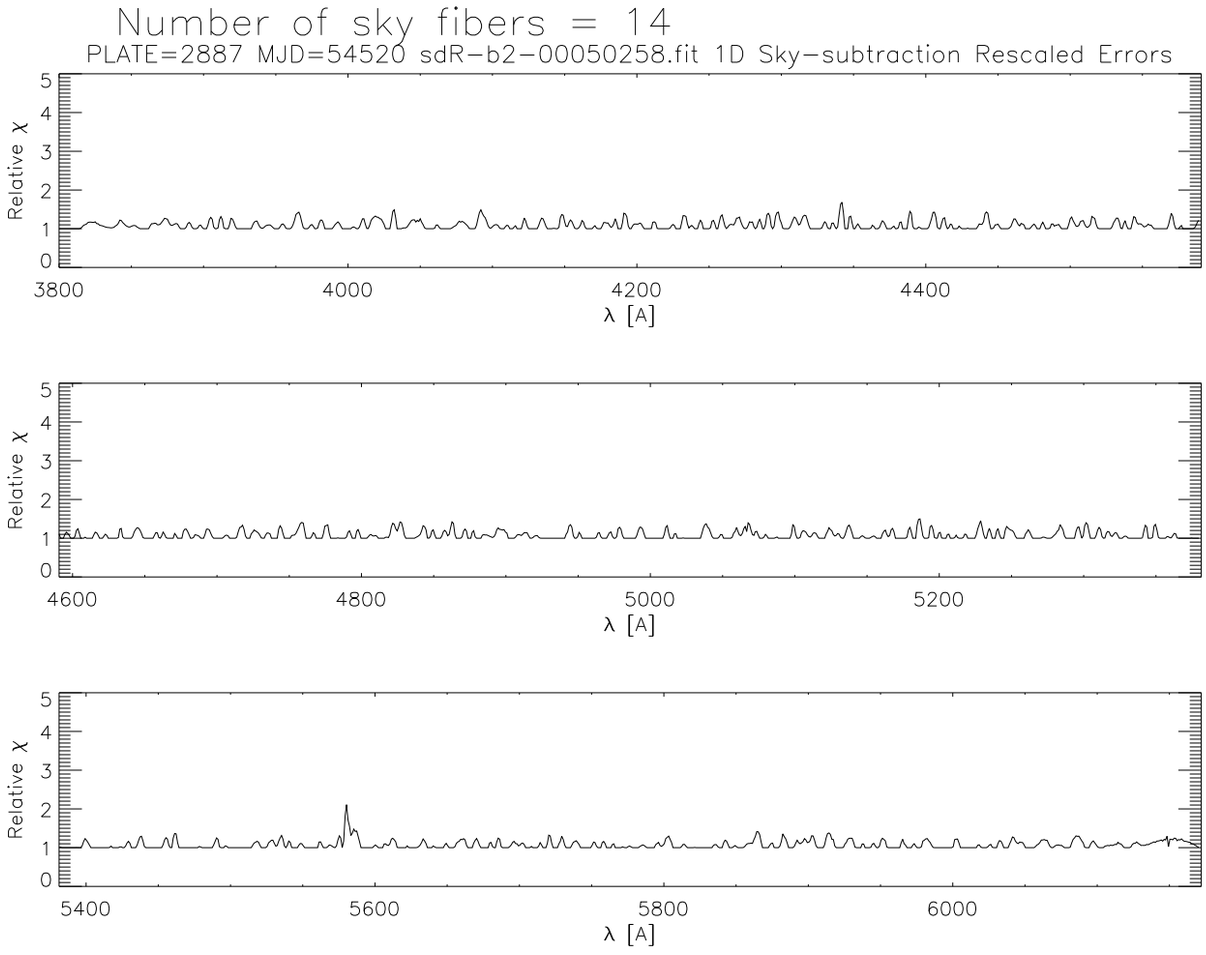

sky shift, pixels
0.35
0.30
0.25
0.20
0.15
0.10
0.05
3500
4000
4500
5000
5500
6000
6500

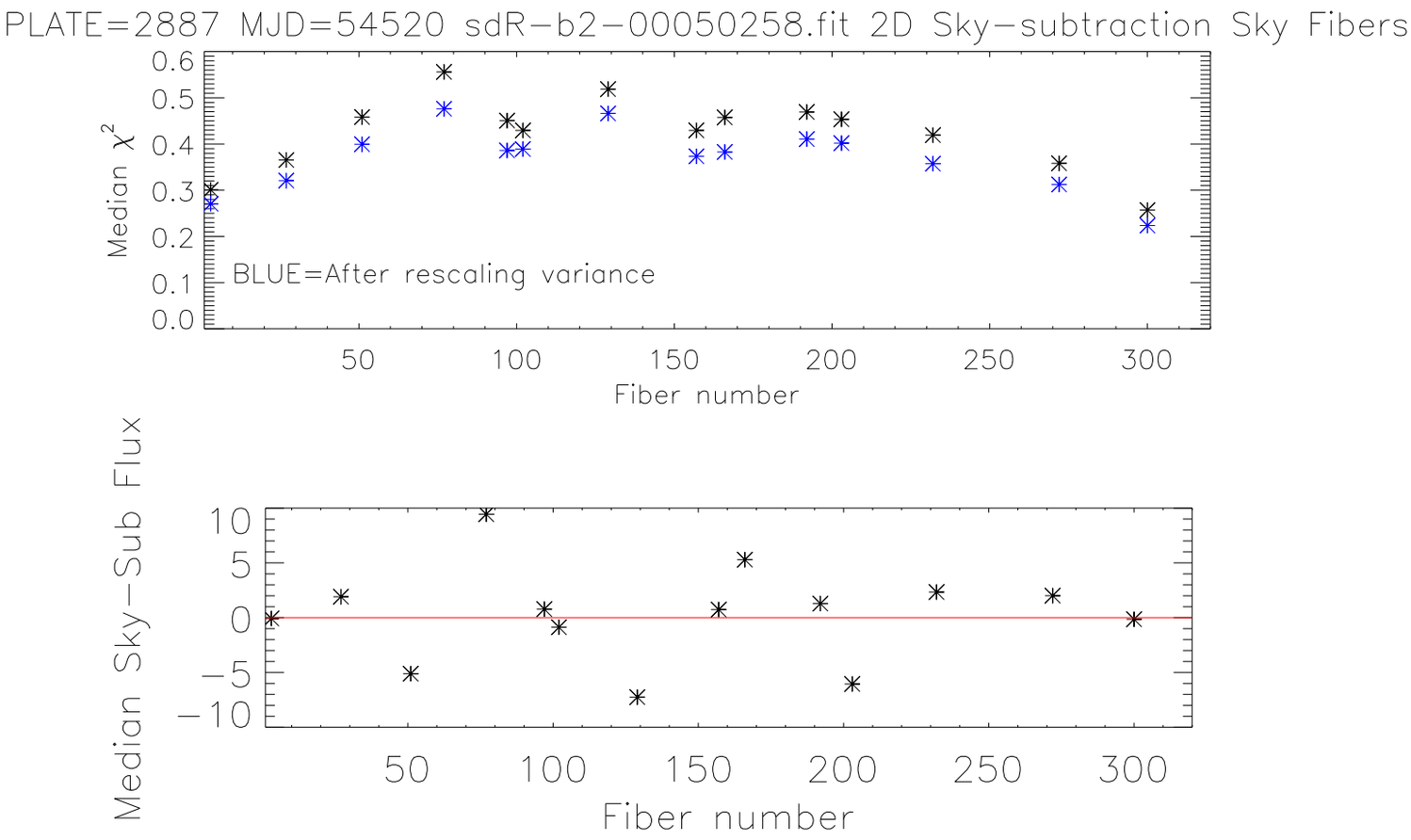

PLATE=2887 MJD=54520 Smooth superflat for sdR-b2-00050258.fit
1.5
1.0
0.5
0.0
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

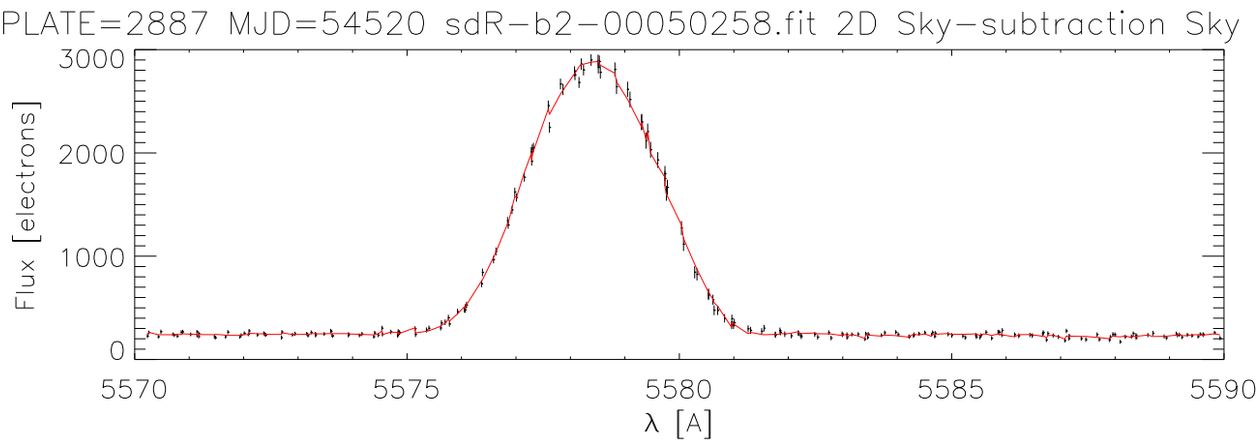

PLATE=2887 MJD=54520 sdR-b2-00050258.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

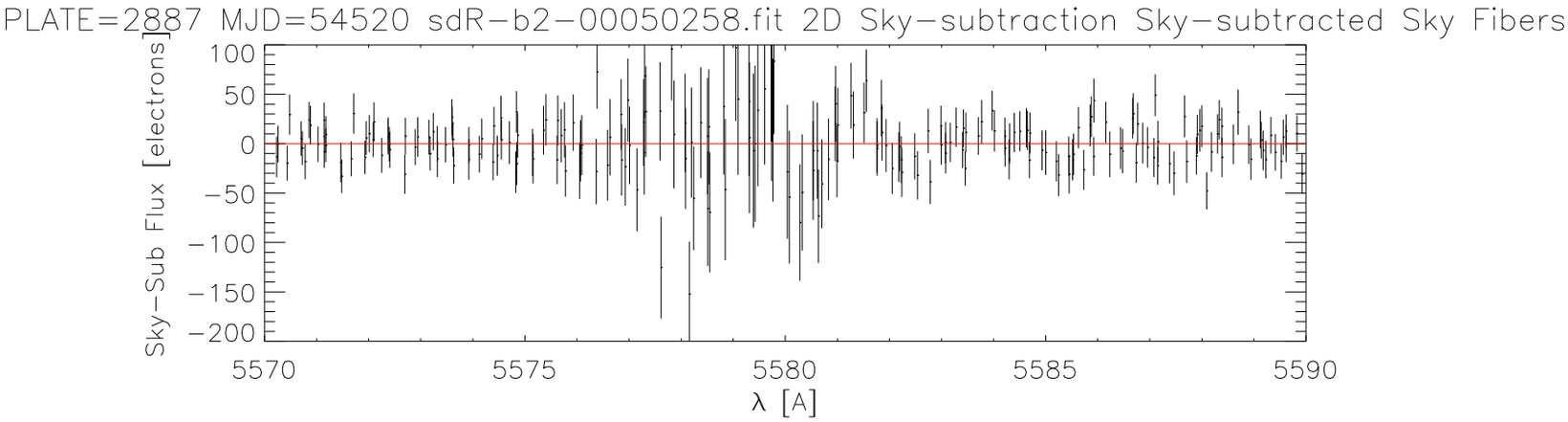

PLATE=2887 MJD=54520 sdR-b2-00050258.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

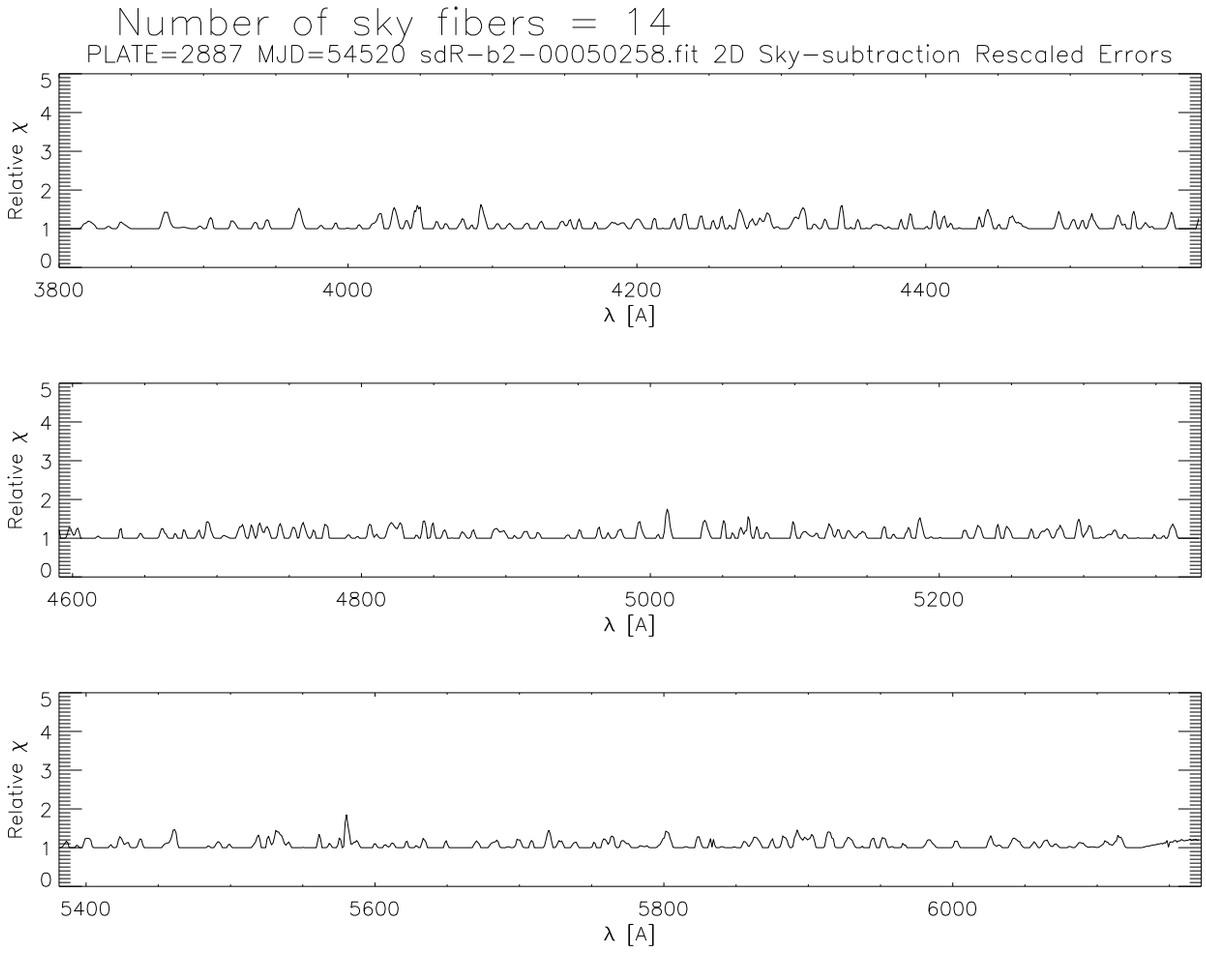

PLATE=2887 MJD=54520 sdR-b2-00050258.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

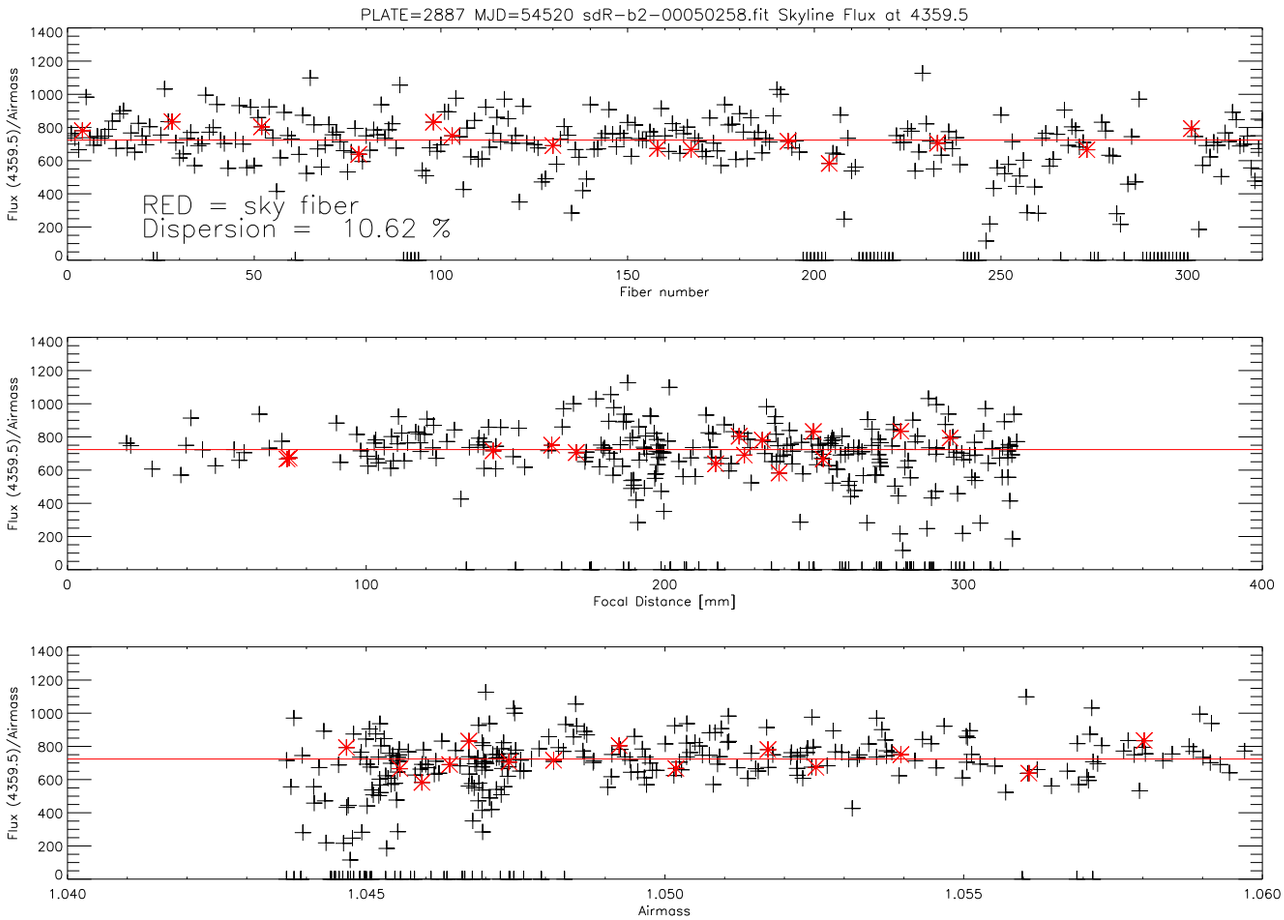

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-b2-00050258.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

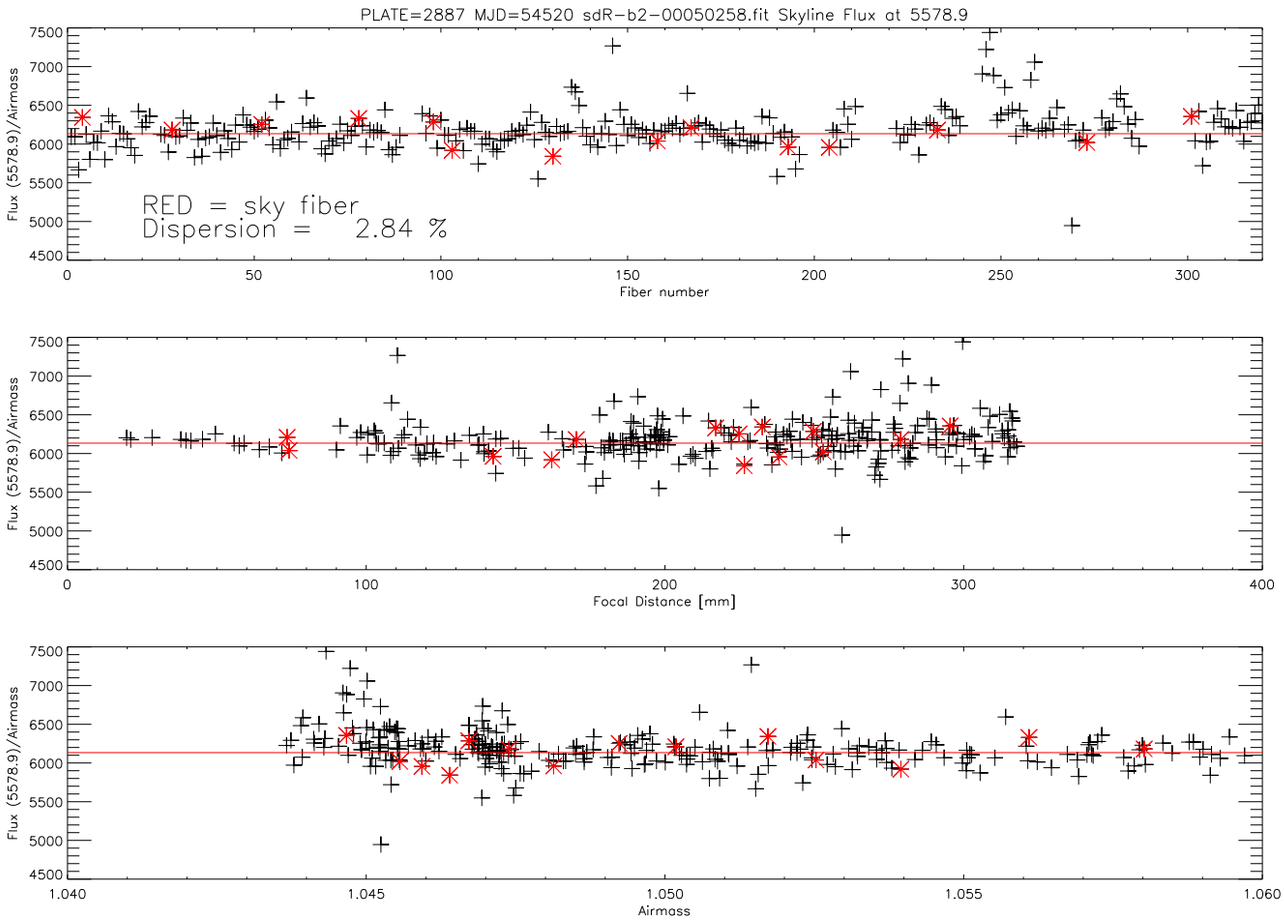

PLATE=2887 MJD=54520 sdR-b2-00050258.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

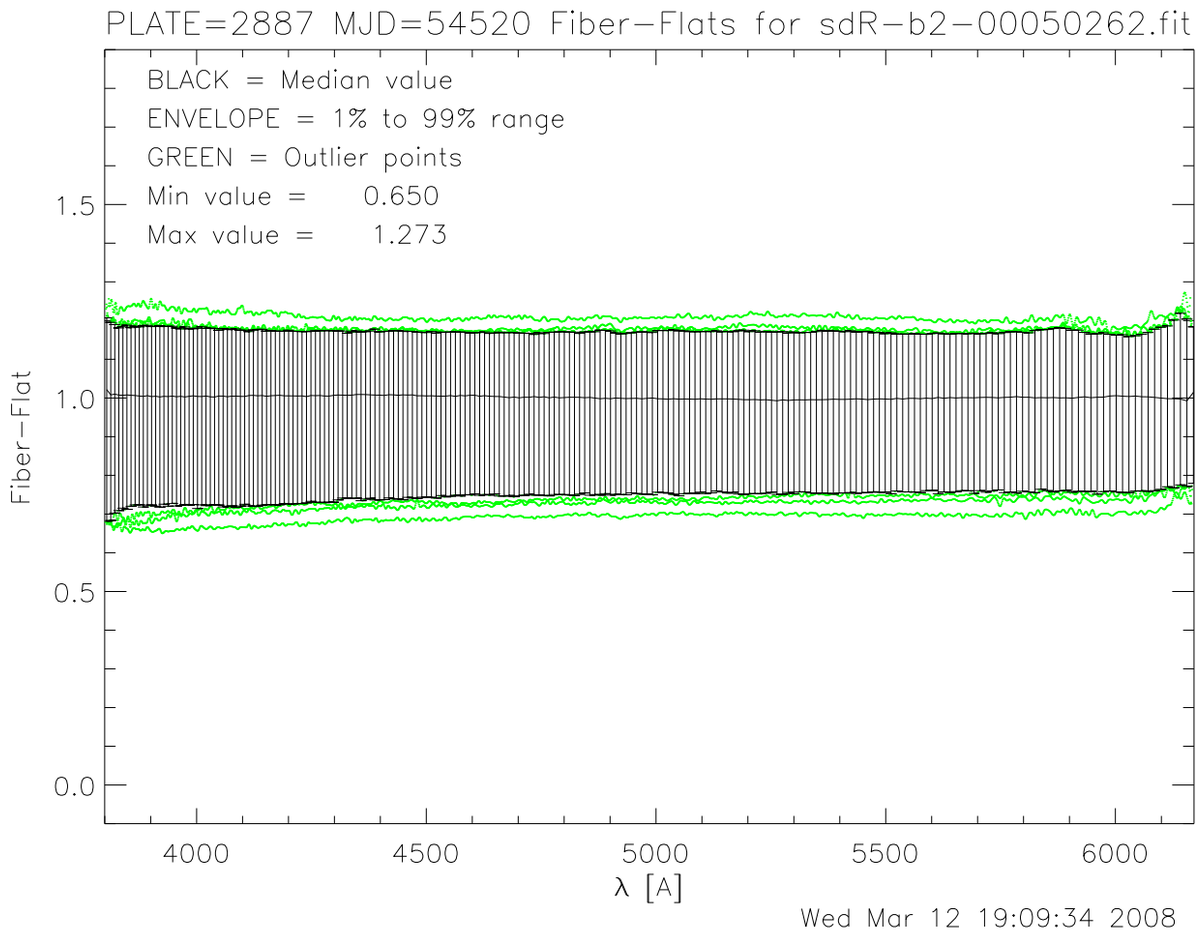

PLATE=2887 MJD=54520 sdR-b2-00050258.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

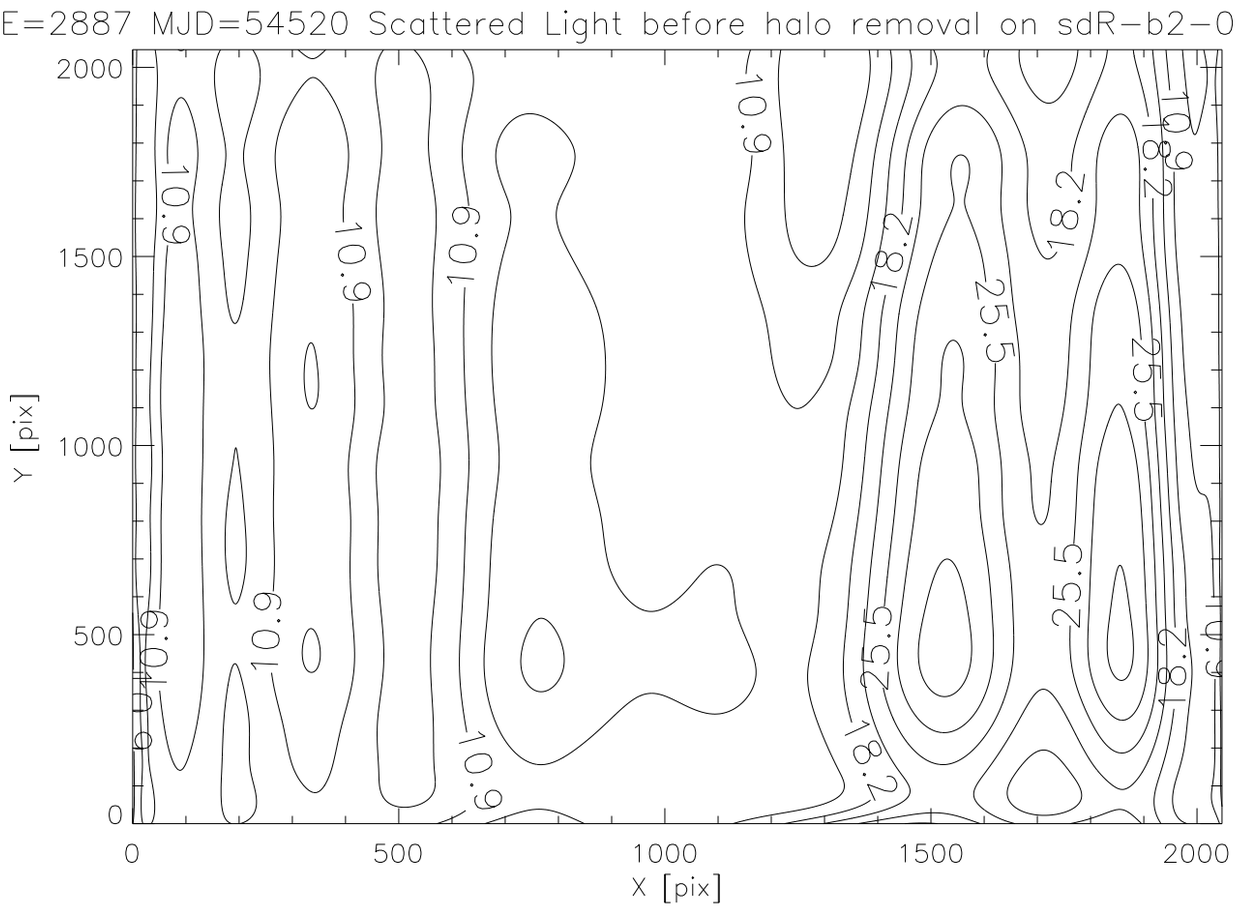

PLATE=2887 MJD=54520 sdR-b2-00050258.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
100
50
0
-50
-100
-150
-200
5570
5575
5580
5585
5590
λ [A]

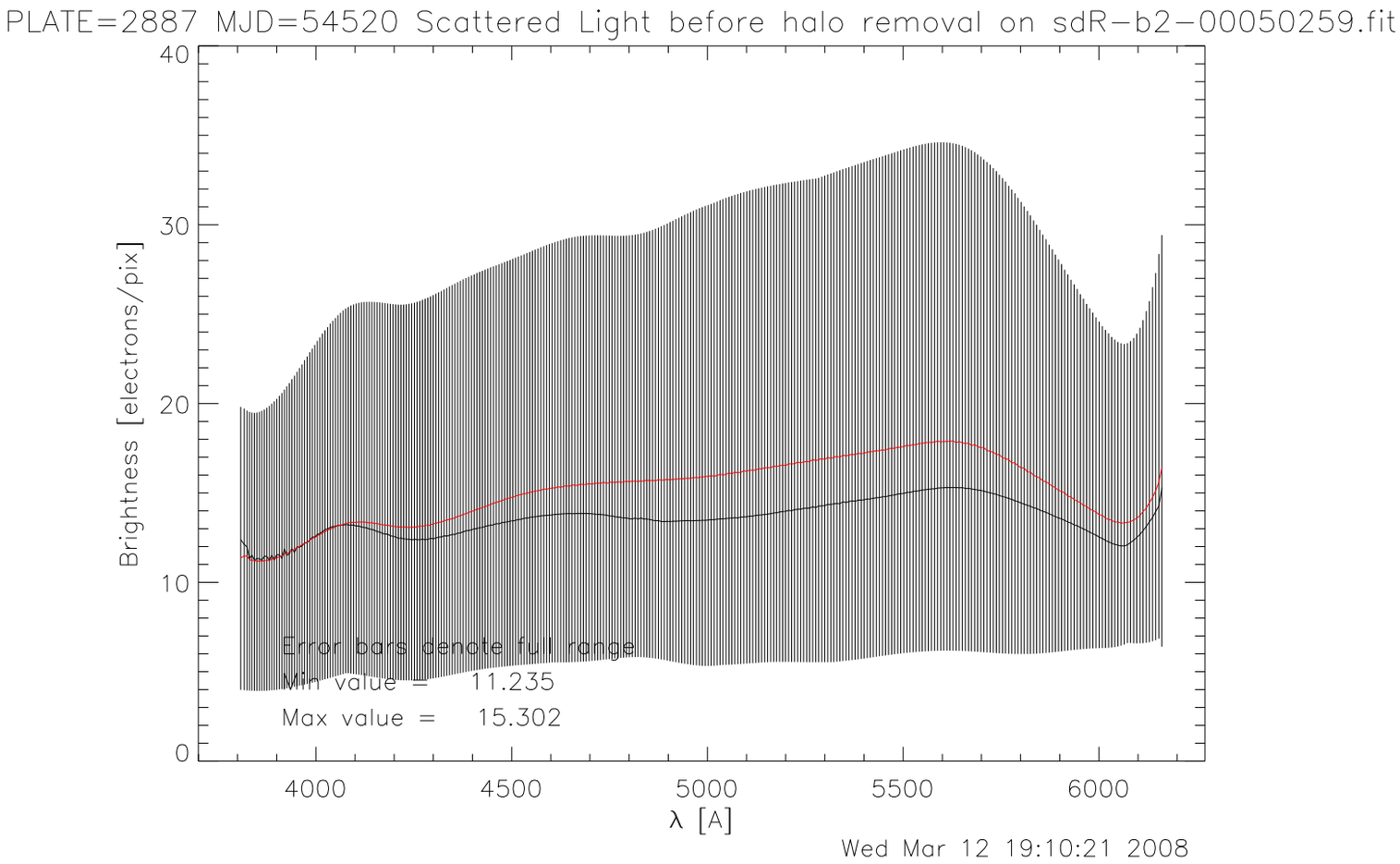

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-b2-00050258.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

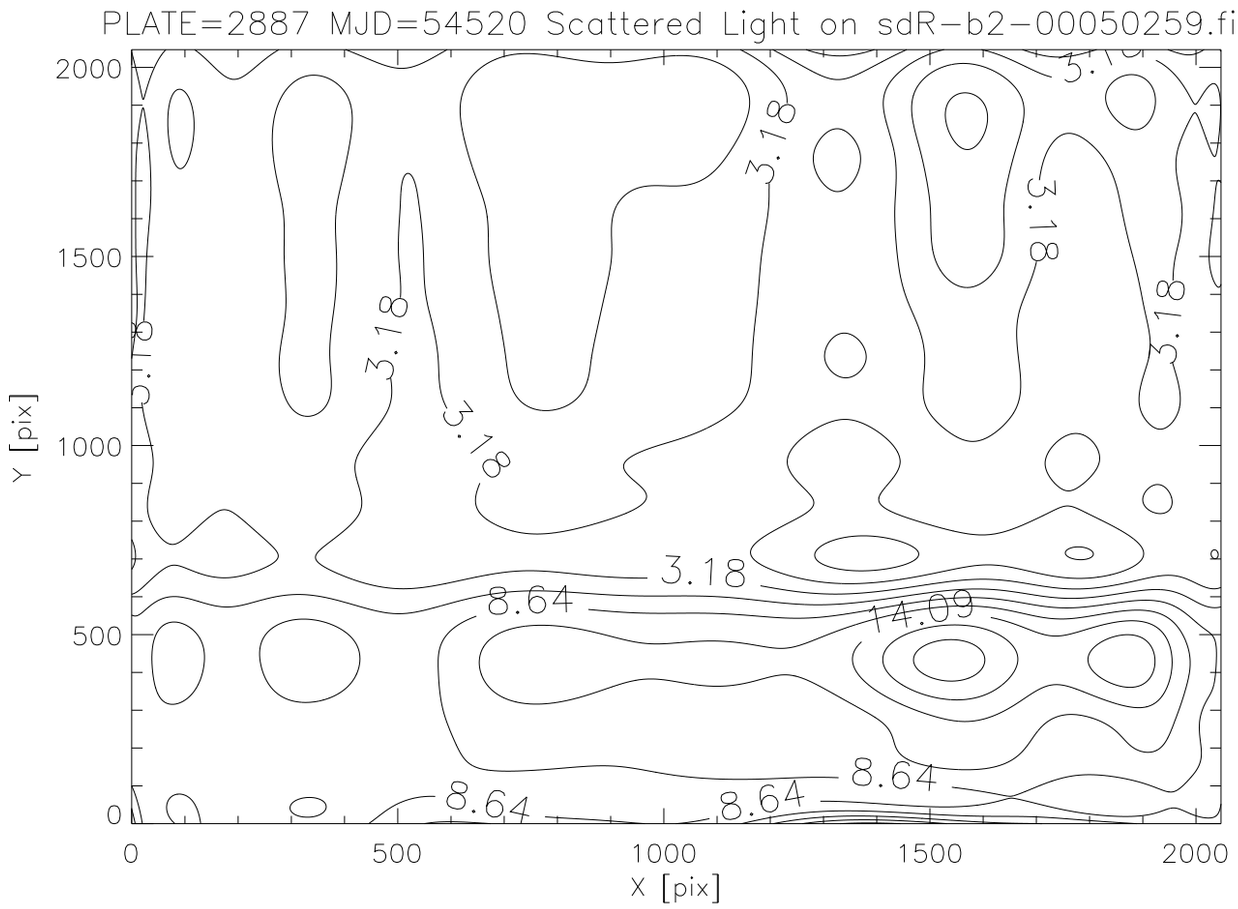

PLATE=2887 MJD=54520 sdR-b2-00050258.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.62 %
Fiber number
Focal Distance [mm]
Airmass

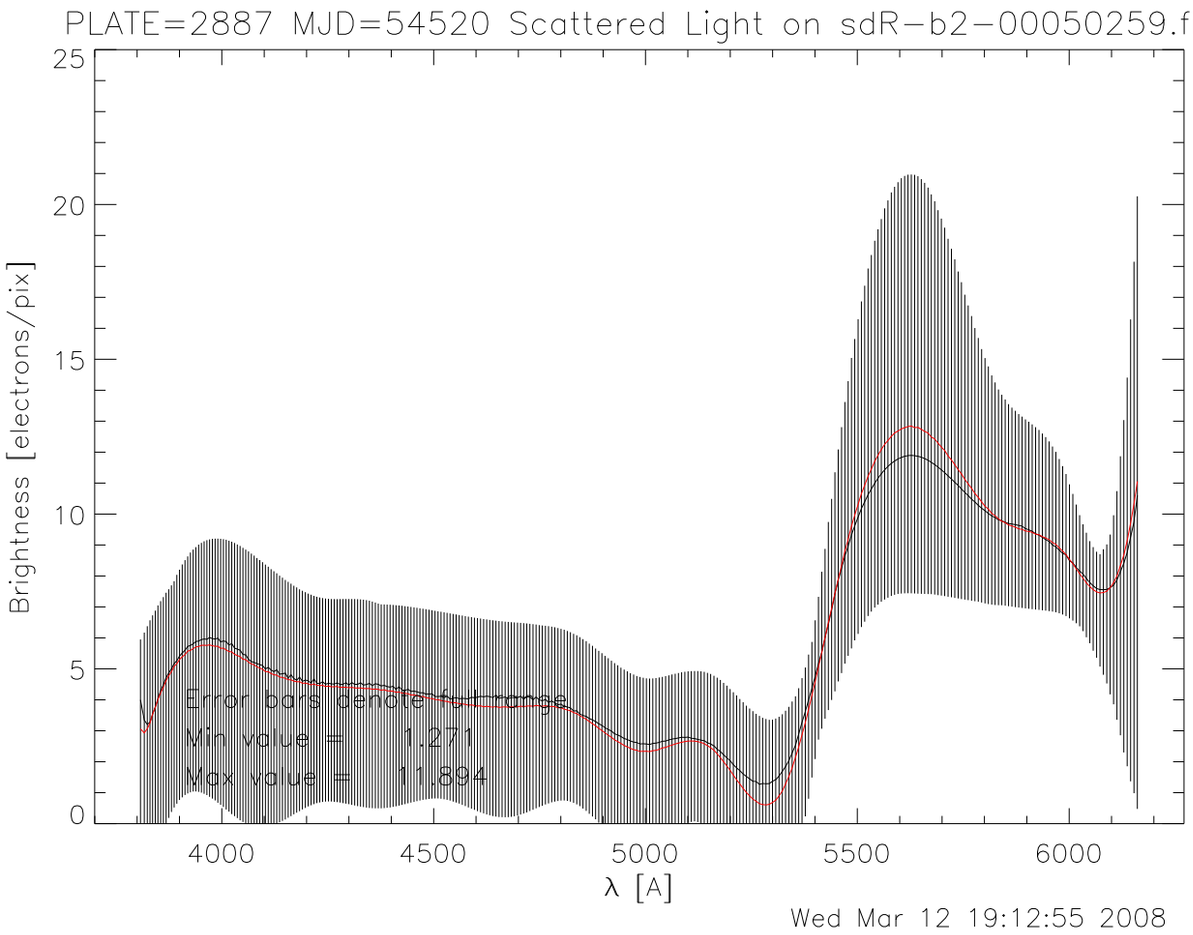

PLATE=2887 MJD=54520 sdR-b2-00050258.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.84 %
Fiber number
Focal Distance [mm]
Airmass

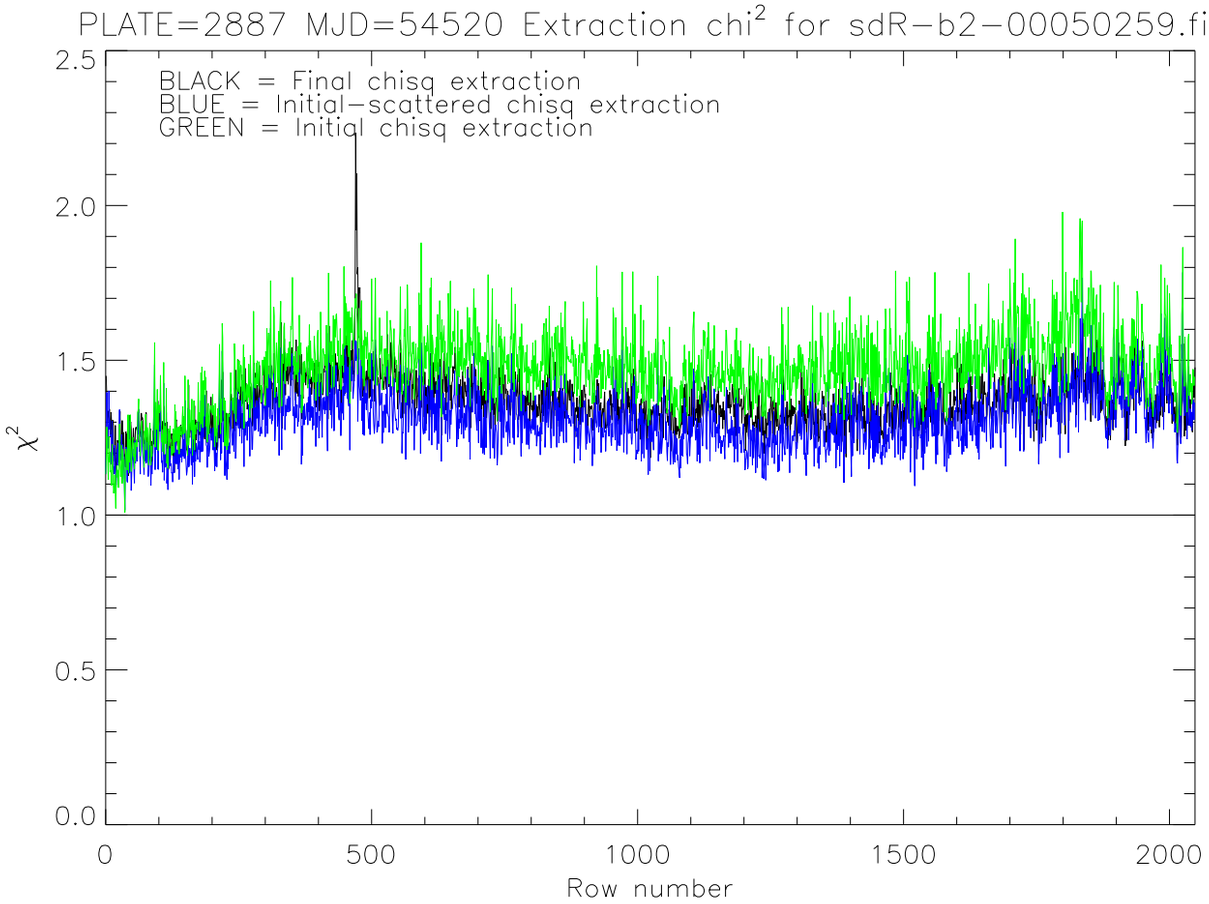

PLATE=2887 MJD=54520 Fiber-Flats for sdR-b2-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.650
Max value = 1.273
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:09:34 2008

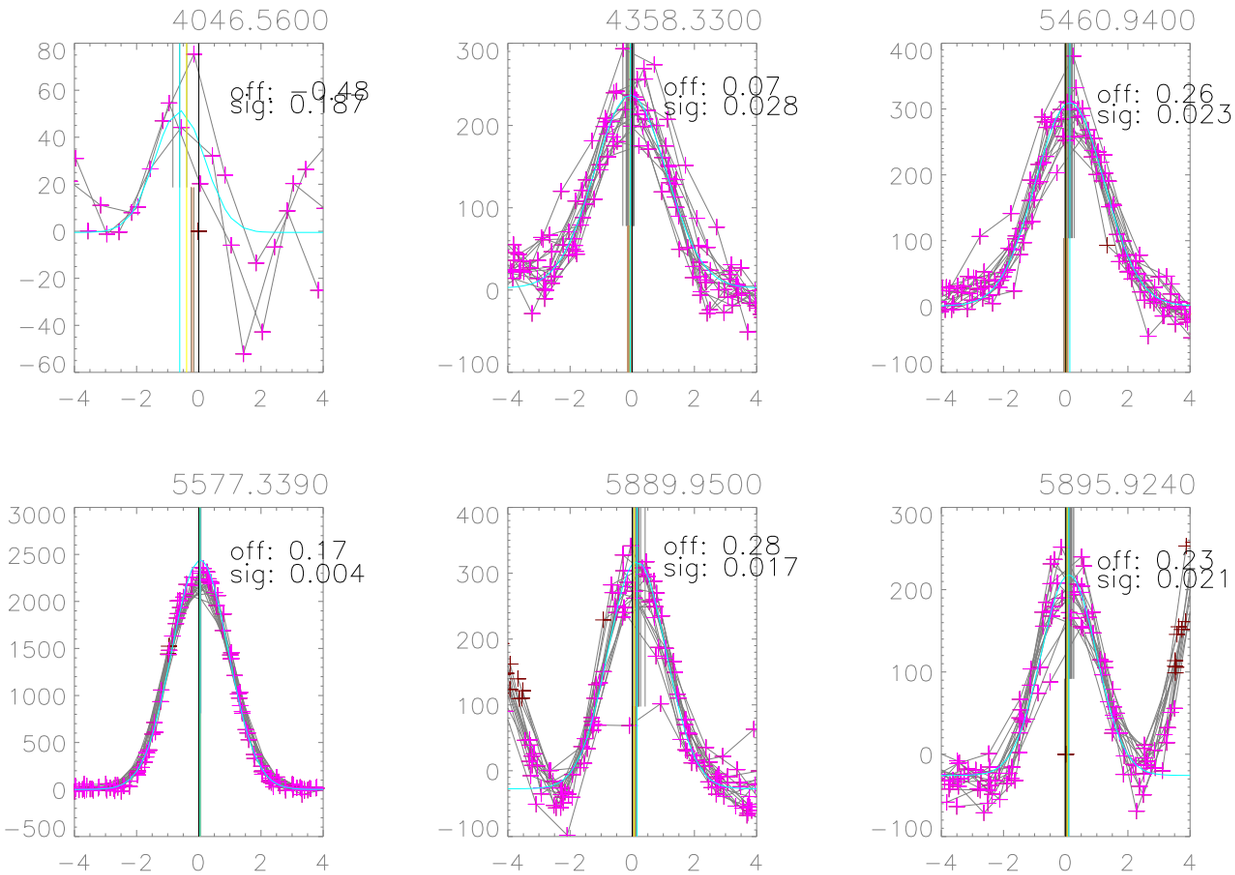

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b2-00050259.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2
25.5

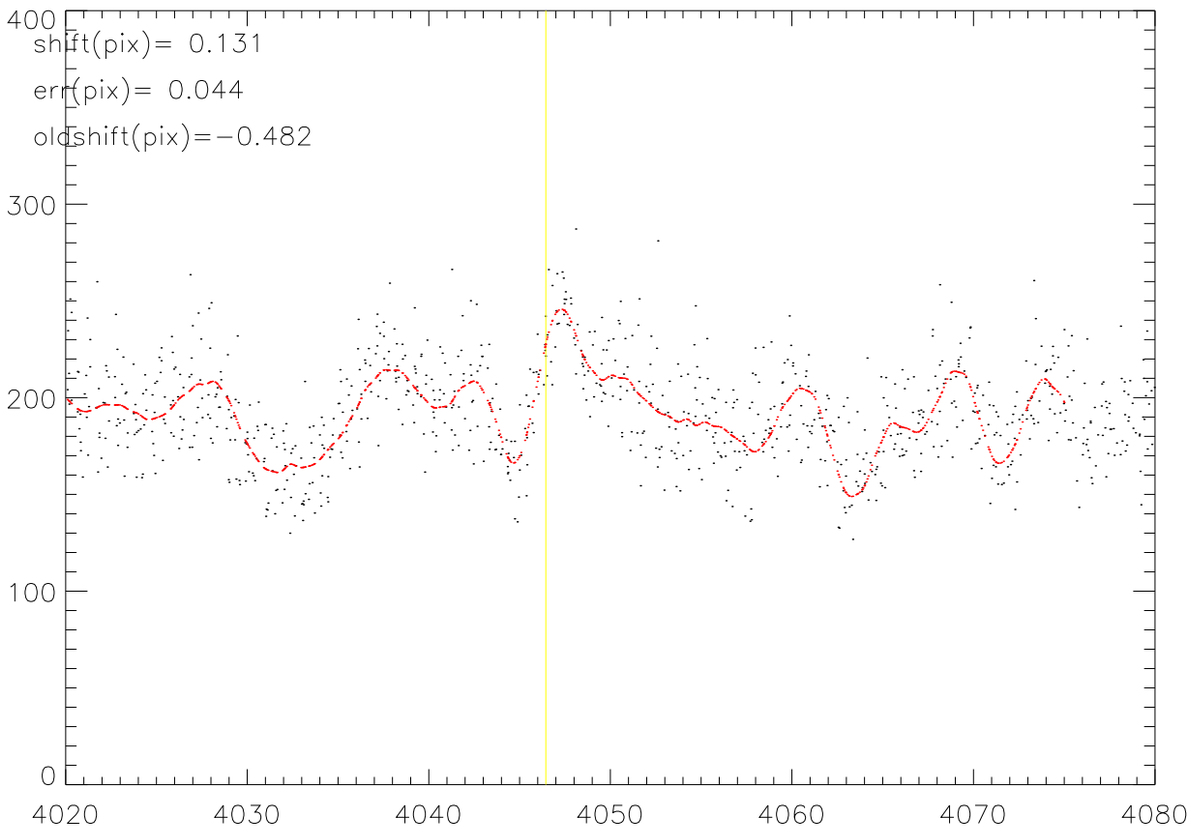

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b2-00050259.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 11.235
Max value = 15.302
Wed Mar 12 19:10:21 2008

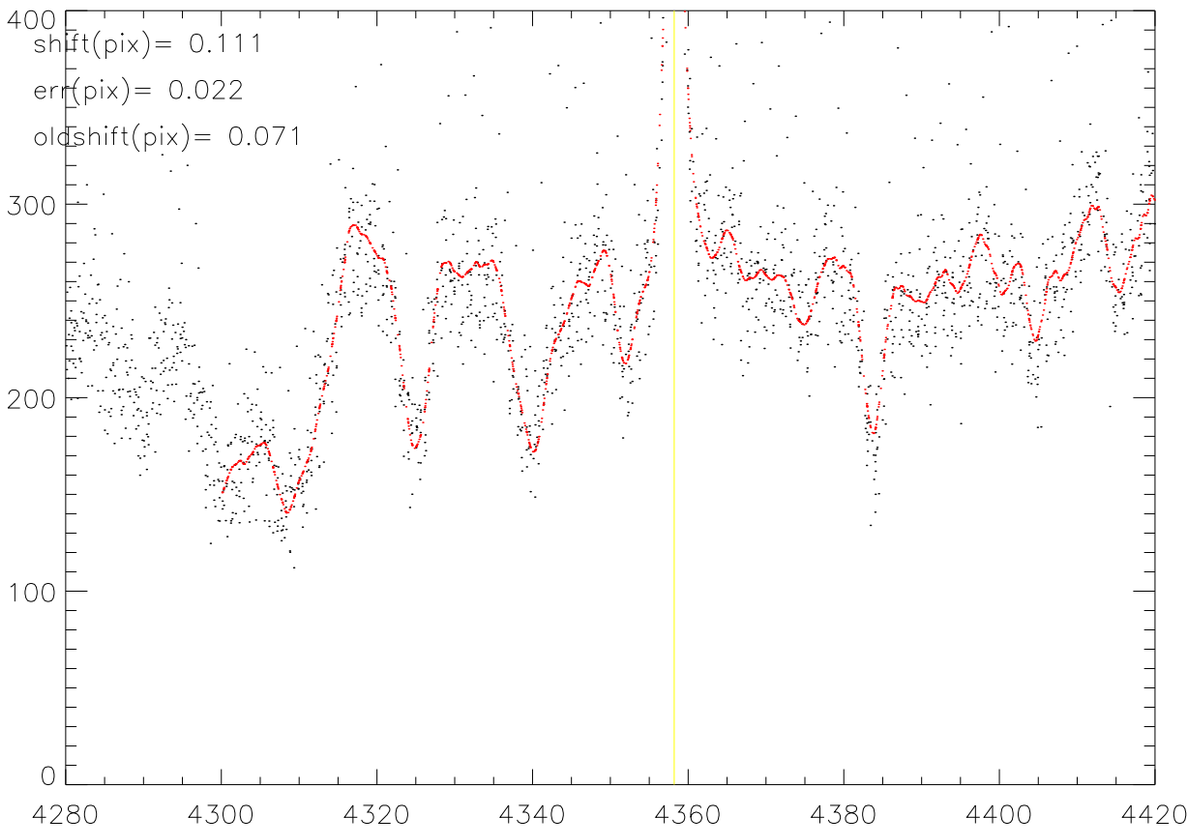

PLATE=2887 MJD=54520 Scattered Light on sdR-b2-00050259.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.18
8.64
14.09

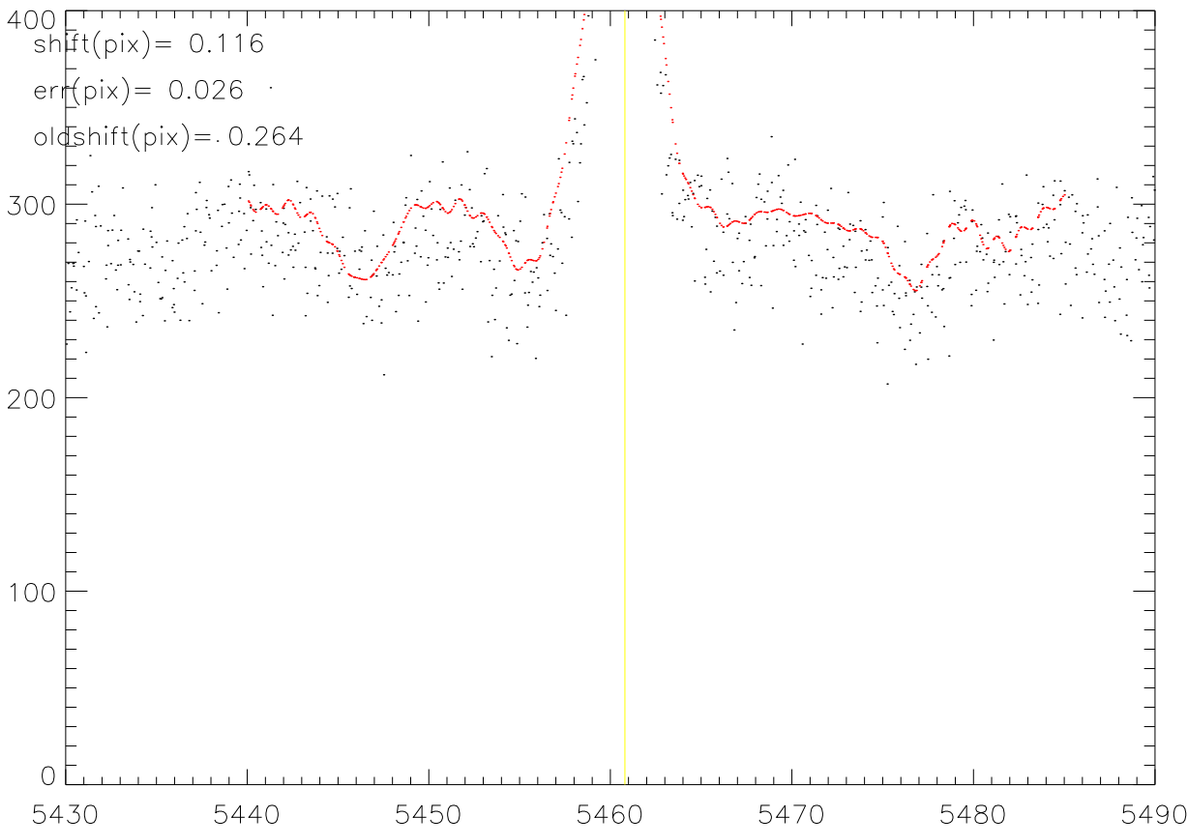

PLATE=2887 MJD=54520 Scattered Light on sdR-b2-00050259.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.271
Max value = 11.894
Wed Mar 12 19:12:55 2008

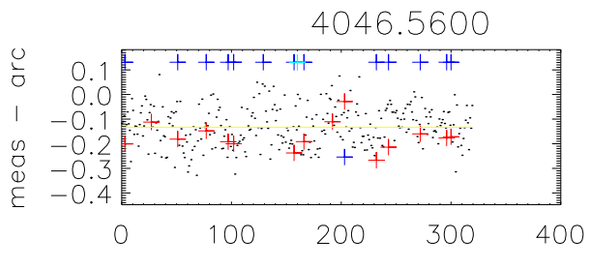

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-b2-00050259.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

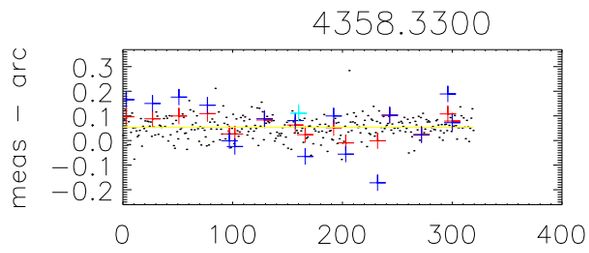

4046.5600
off: −0.48
sig: 0.187
4358.3300
off: 0.07
sig: 0.028
5460.9400
off: 0.26
sig: 0.023
5577.3390
off: 0.17
sig: 0.004
5889.9500
off: 0.28
sig: 0.017
5895.9240
off: 0.23
sig: 0.021

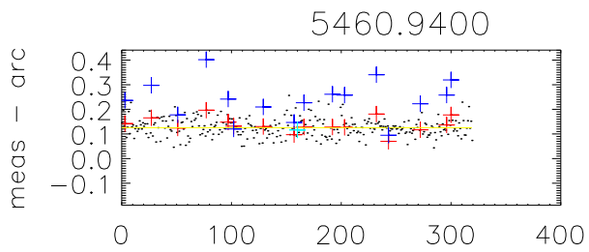

shift(pix)= 0.131
err(pix)= 0.044
oldshift(pix)=-0.482
400
300
200
100
0
4020
4030
4040
4050
4060
4070
4080

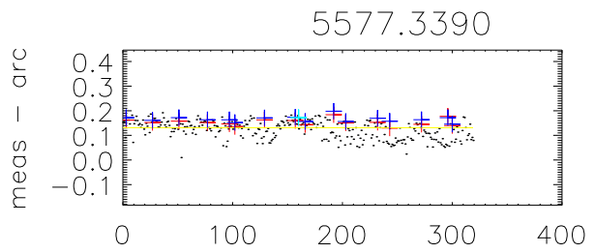

shift(pix)= 0.111
err(pix)= 0.022
oldshift(pix)= 0.071
400
300
200
100
0
4280
4300
4320
4340
4360
4380
4400
4420

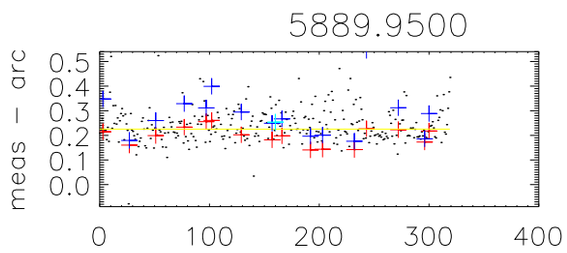

shift(pix)= 0.116
err(pix)= 0.026
oldshift(pix)= 0.264
400
300
200
100
0
5430
5440
5450
5460
5470
5480
5490

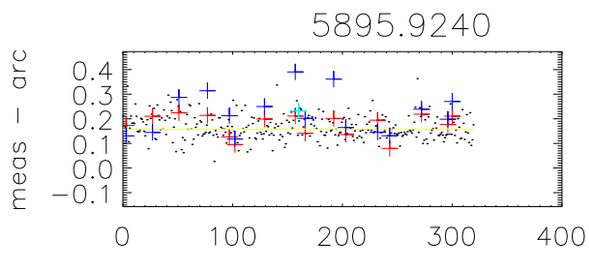

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

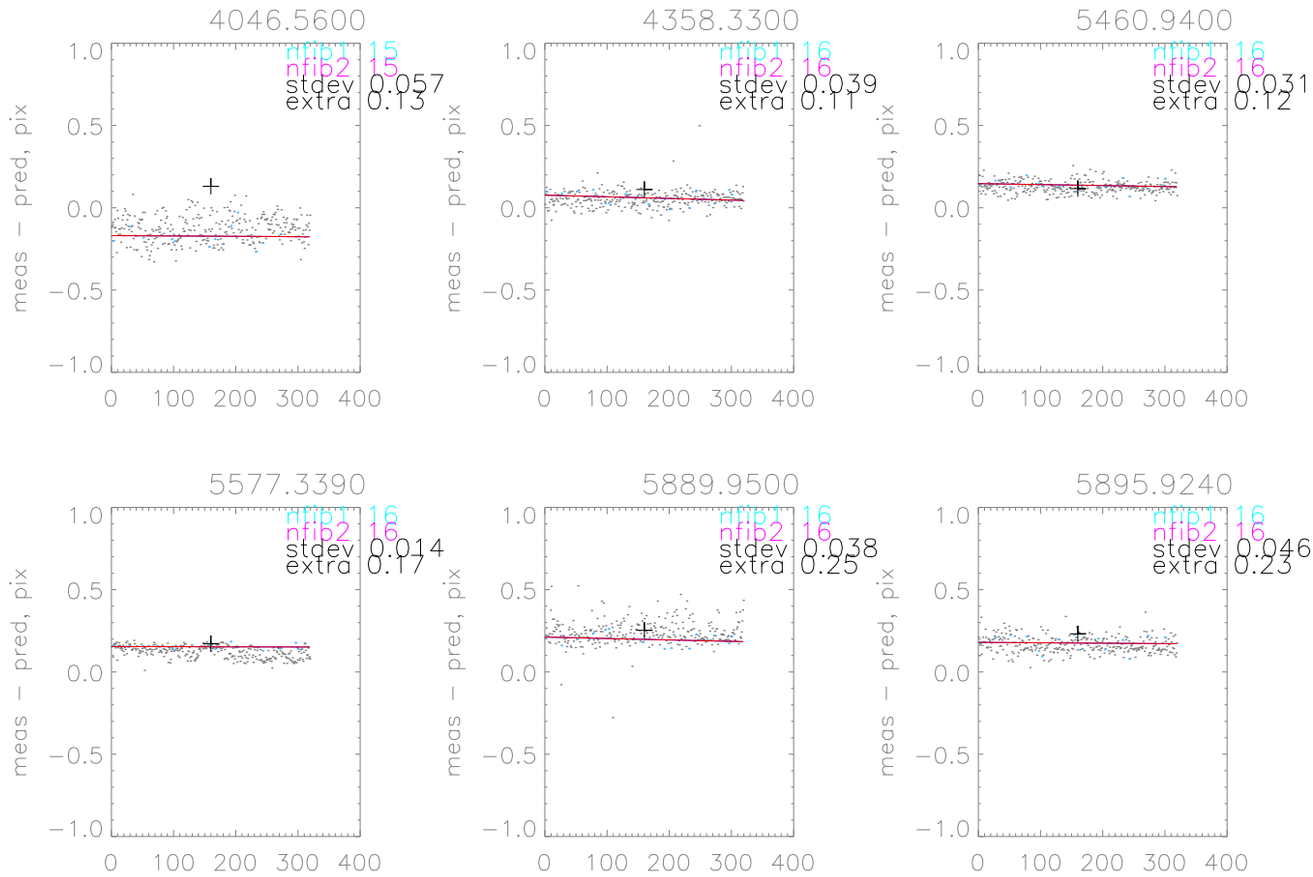

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

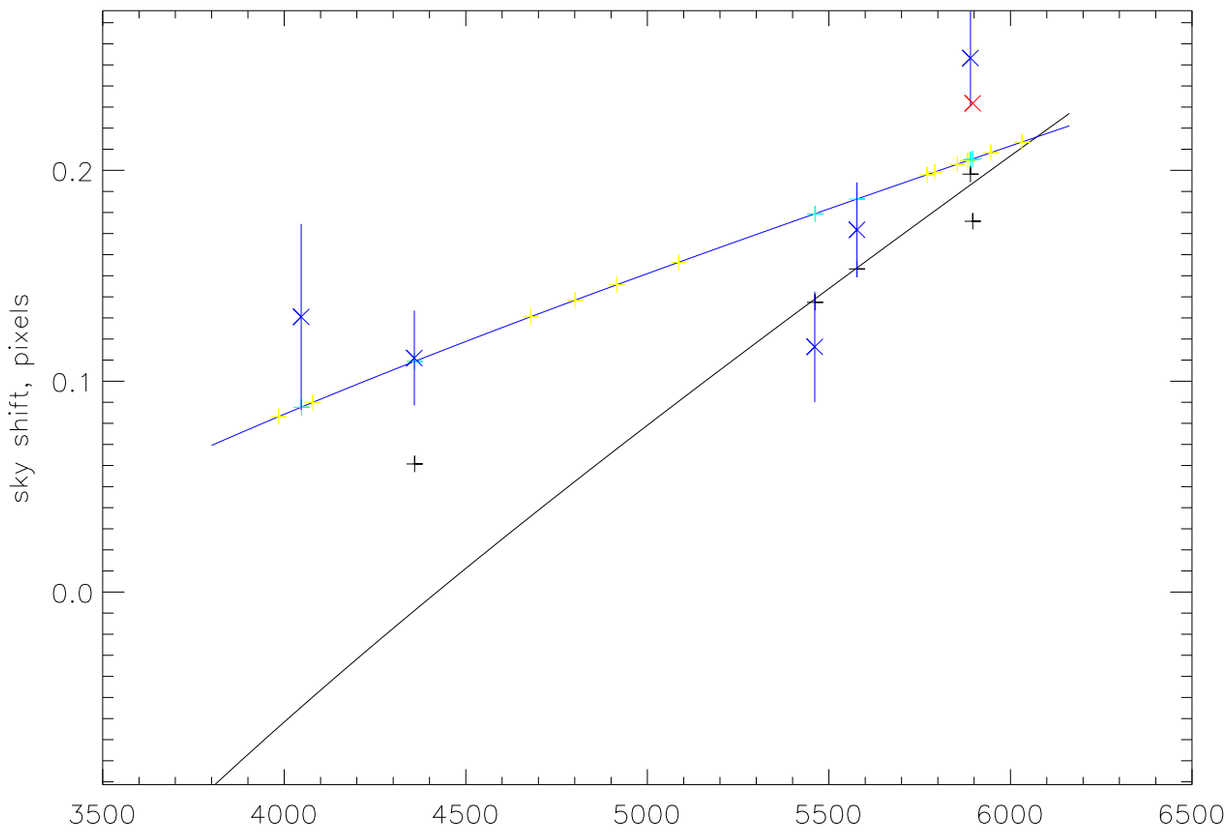

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

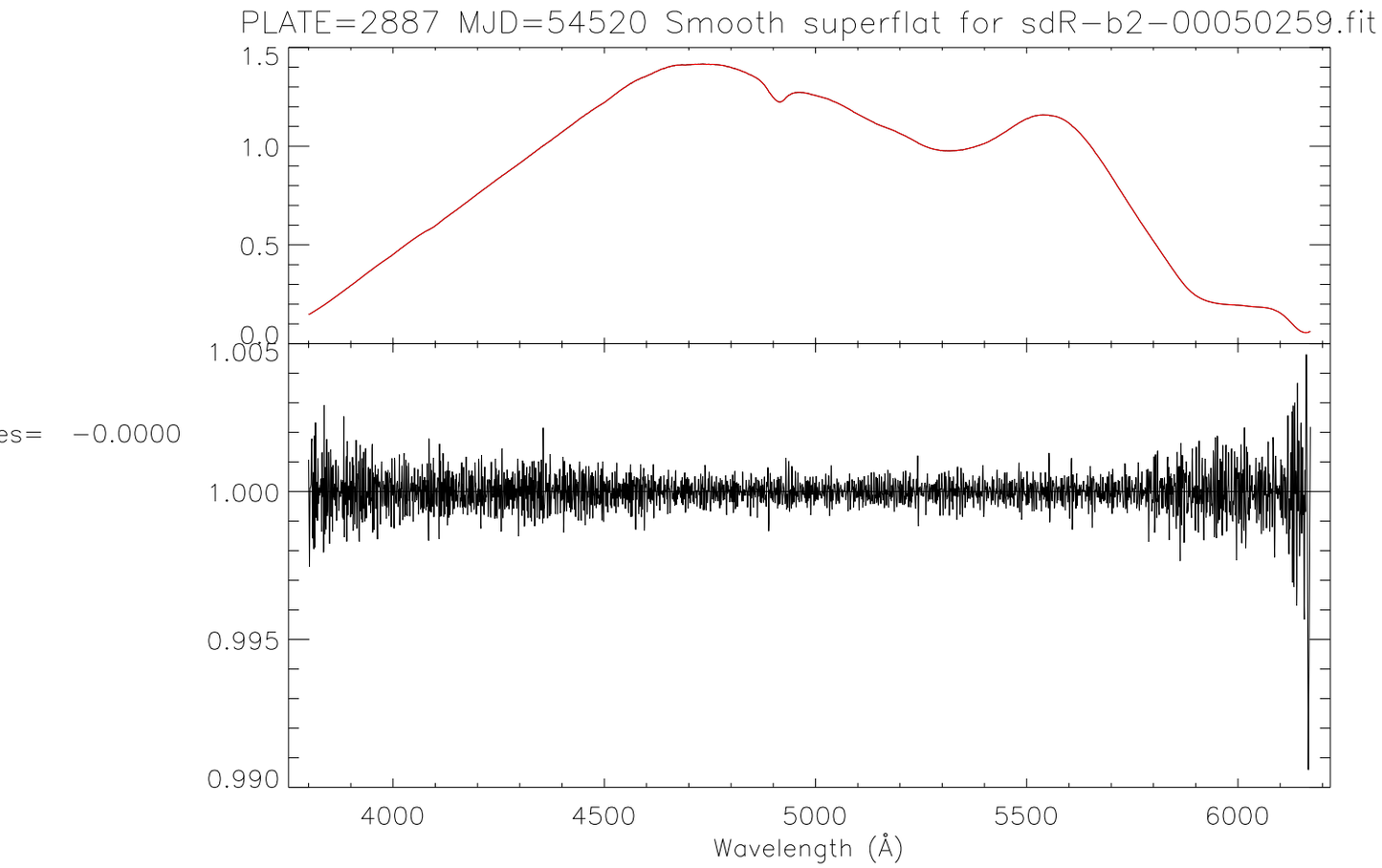

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

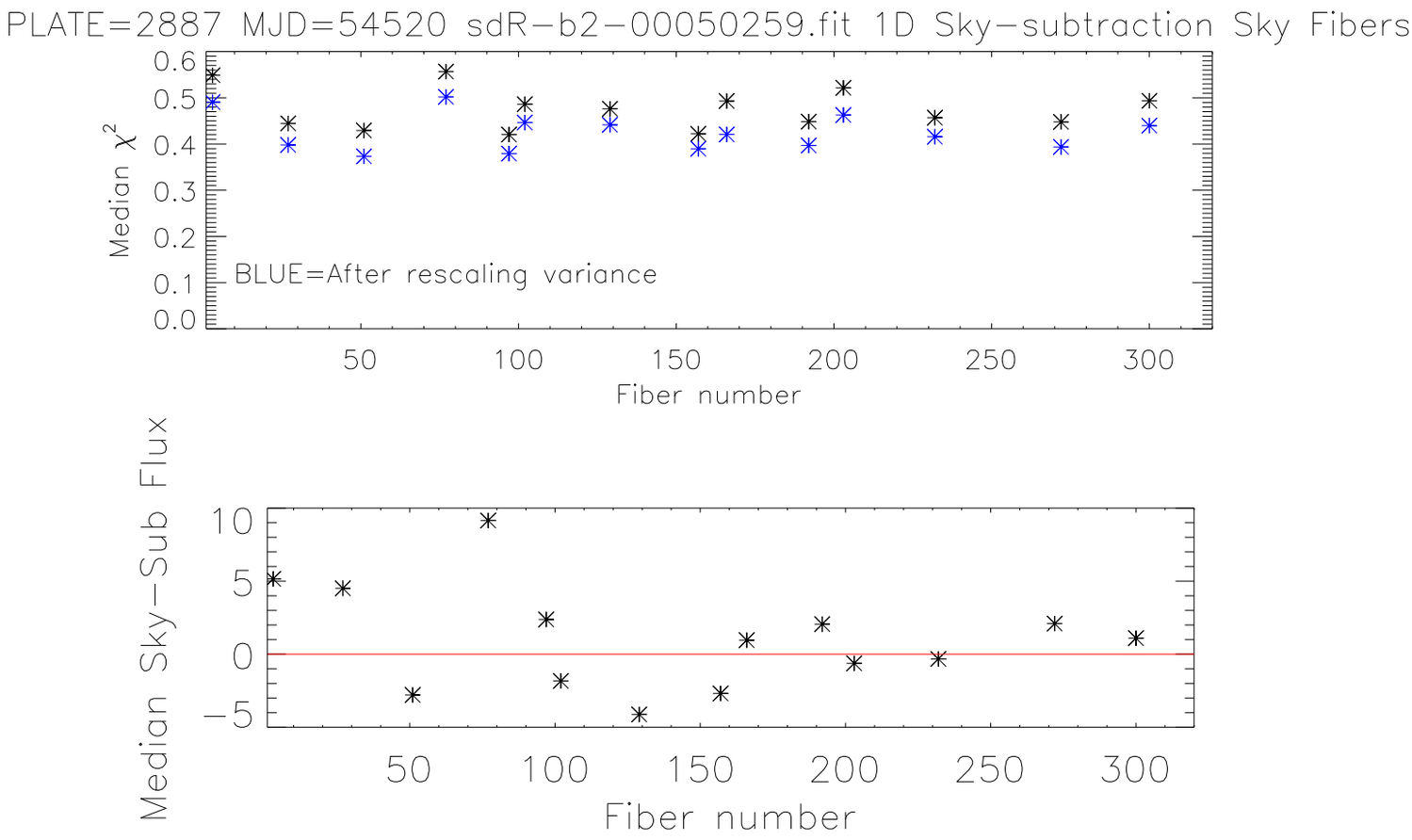

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

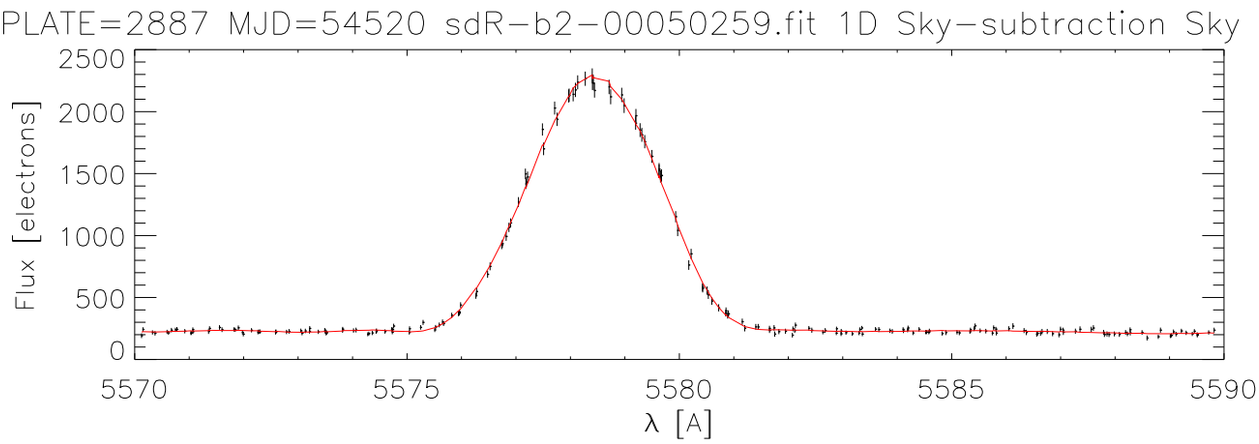

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

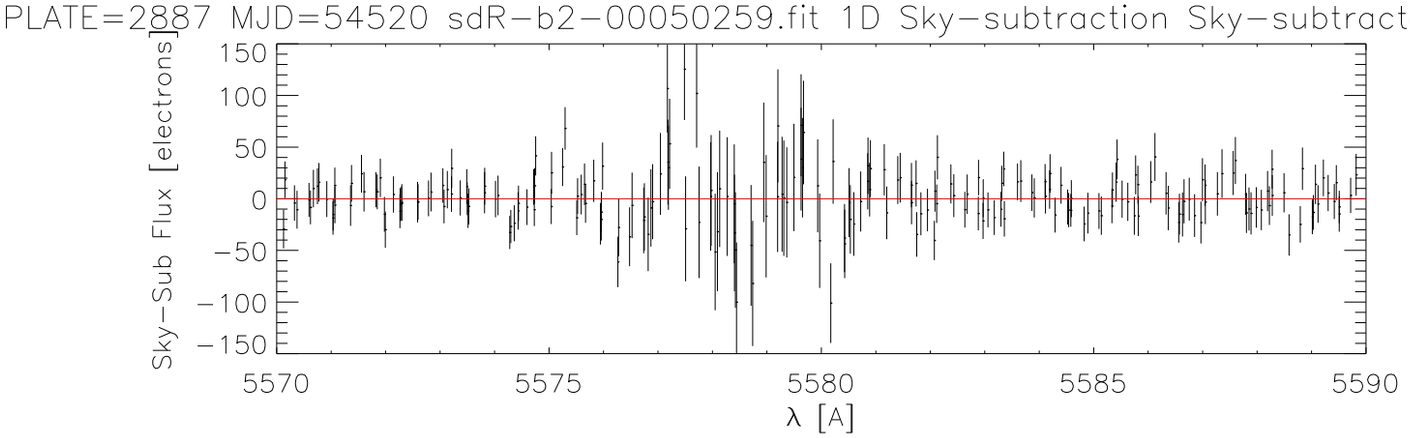

4046.5600
nfib1 15
nfib2 15
stdev 0.057
extra 0.13
4358.3300
nfib1 16
nfib2 16
stdev 0.039
extra 0.11
5460.9400
nfib1 16
nfib2 16
stdev 0.031
extra 0.12
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra 0.17
5889.9500
nfib1 16
nfib2 16
stdev 0.038
extra 0.25
5895.9240
nfib1 16
nfib2 16
stdev 0.046
extra 0.23
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

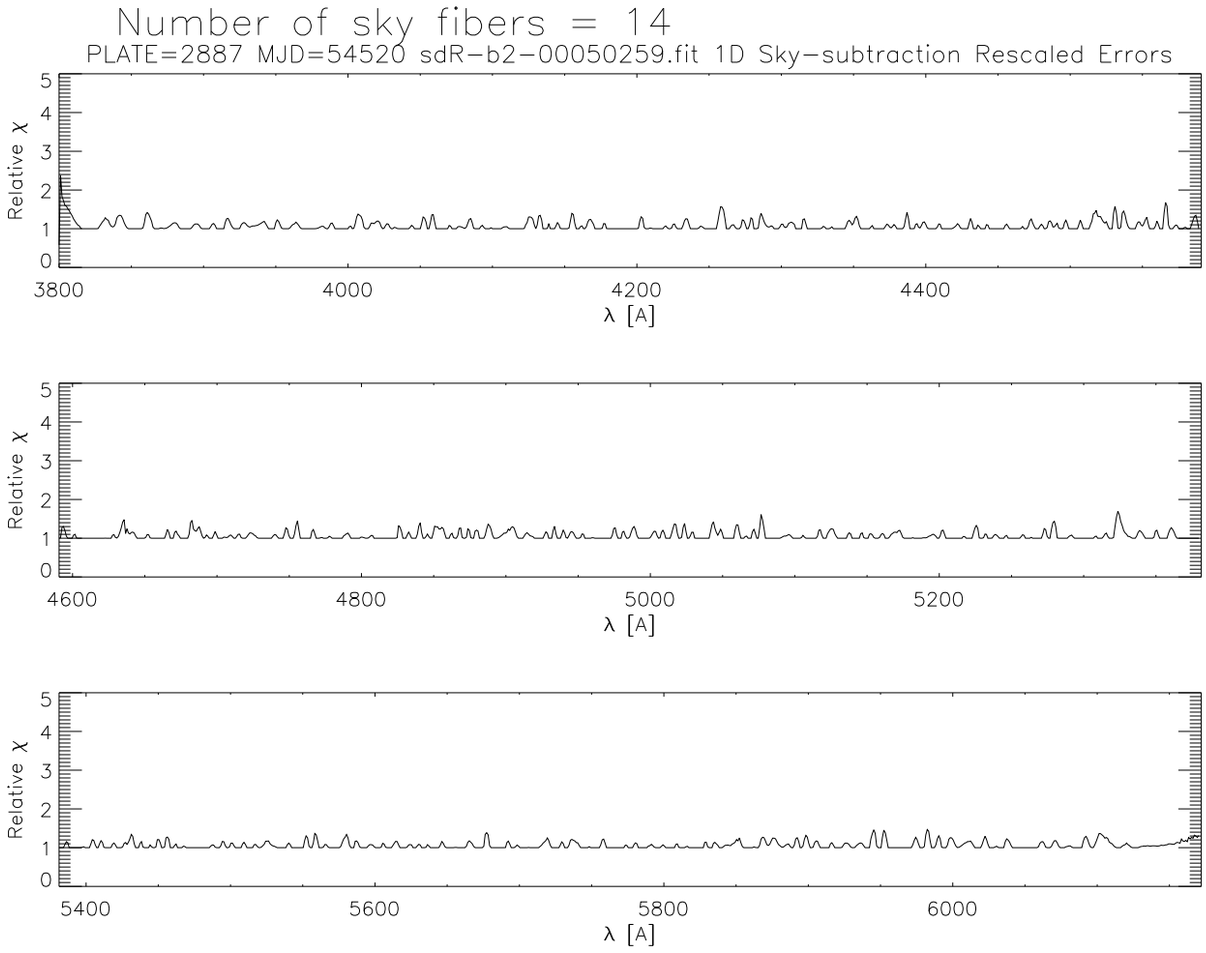

sky shift, pixels
0.2
0.1
0.0
3500
4000
4500
5000
5500
6000
6500

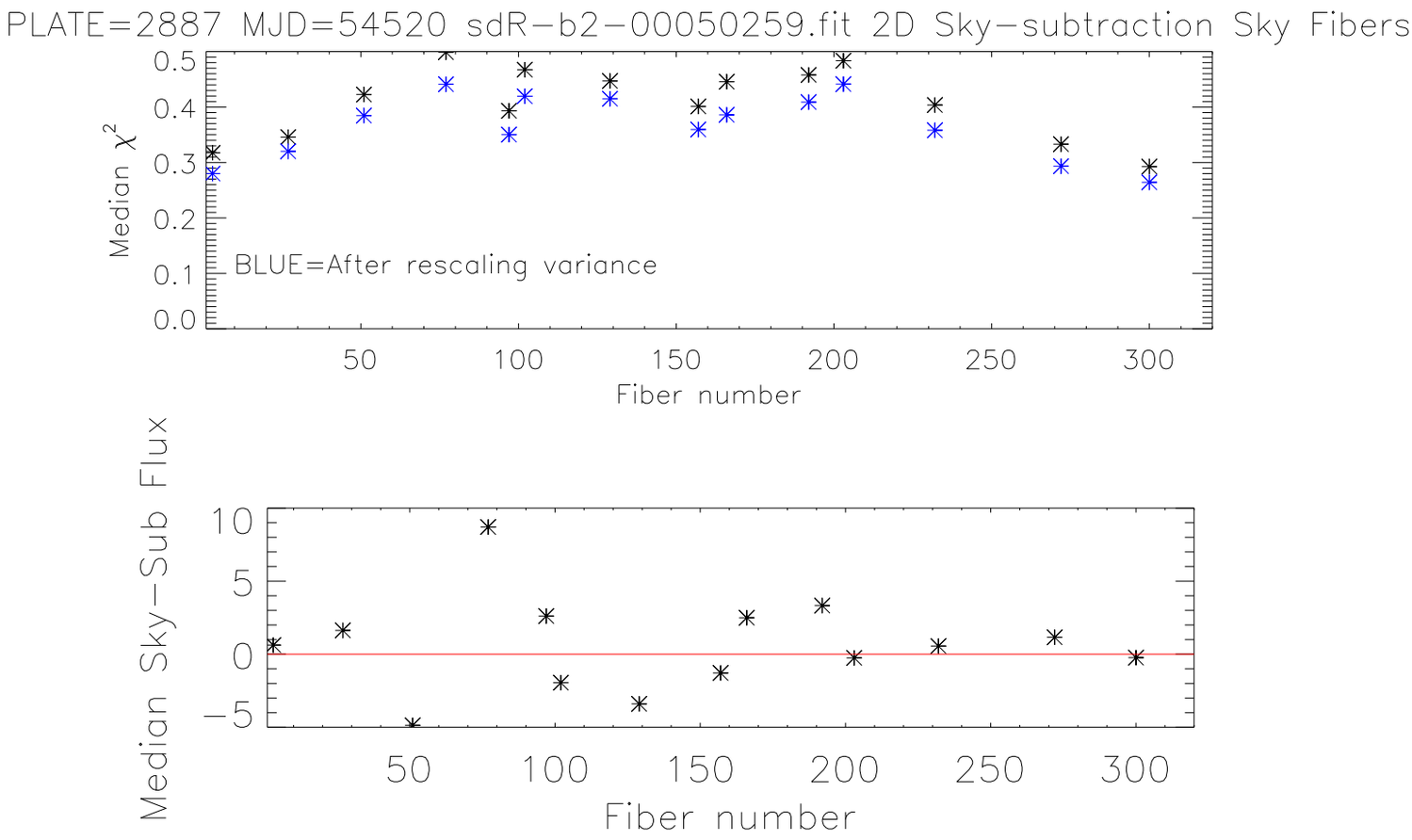

PLATE=2887 MJD=54520 Smooth superflat for sdR-b2-00050259.fit
1.5
1.0
0.5
0.0
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

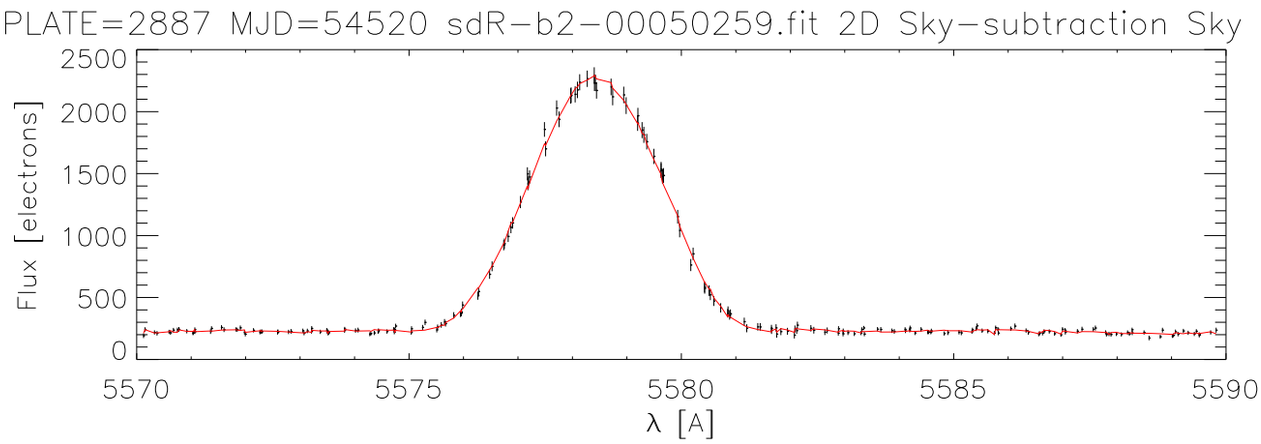

PLATE=2887 MJD=54520 sdR-b2-00050259.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

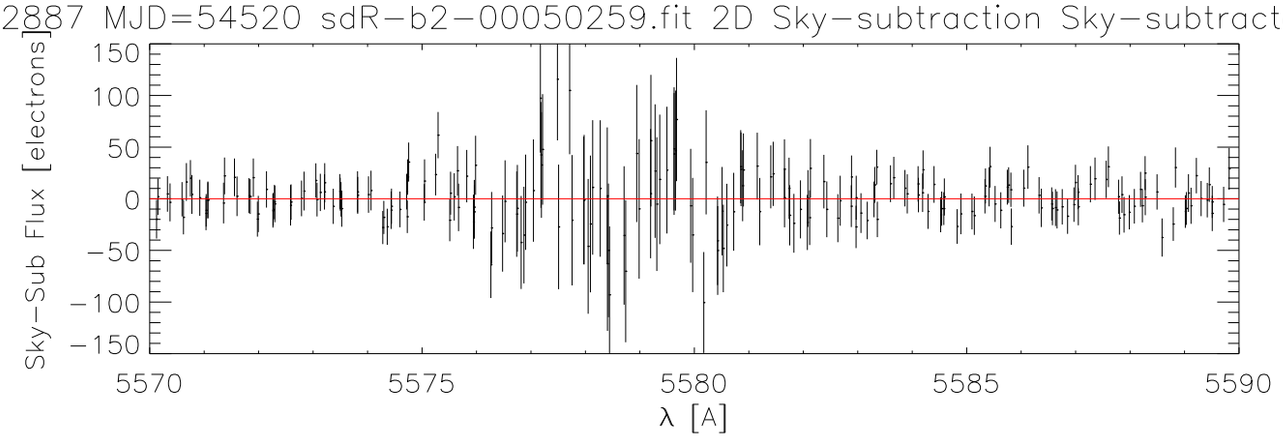

PLATE=2887 MJD=54520 sdR-b2-00050259.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

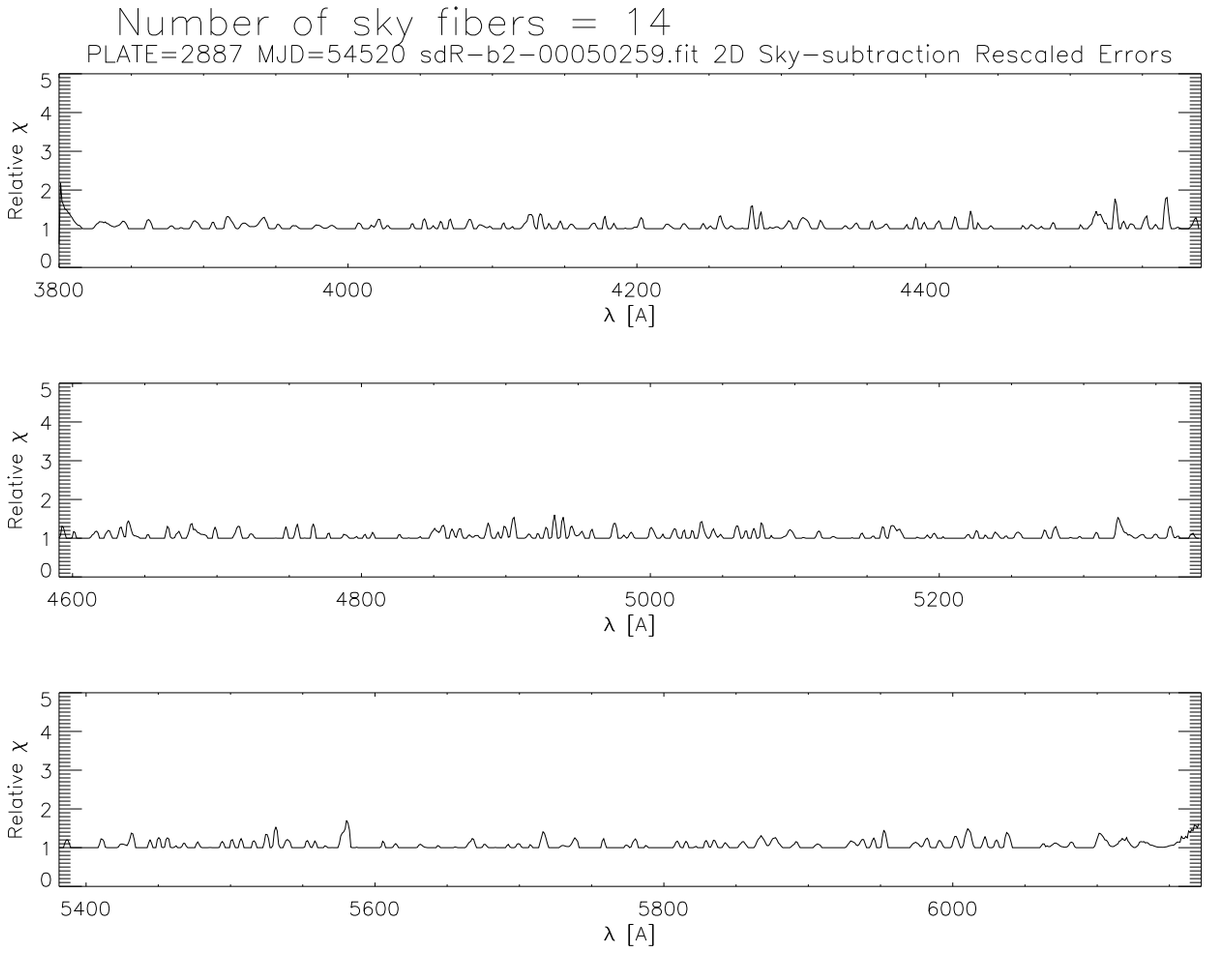

PLATE=2887 MJD=54520 sdR-b2-00050259.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

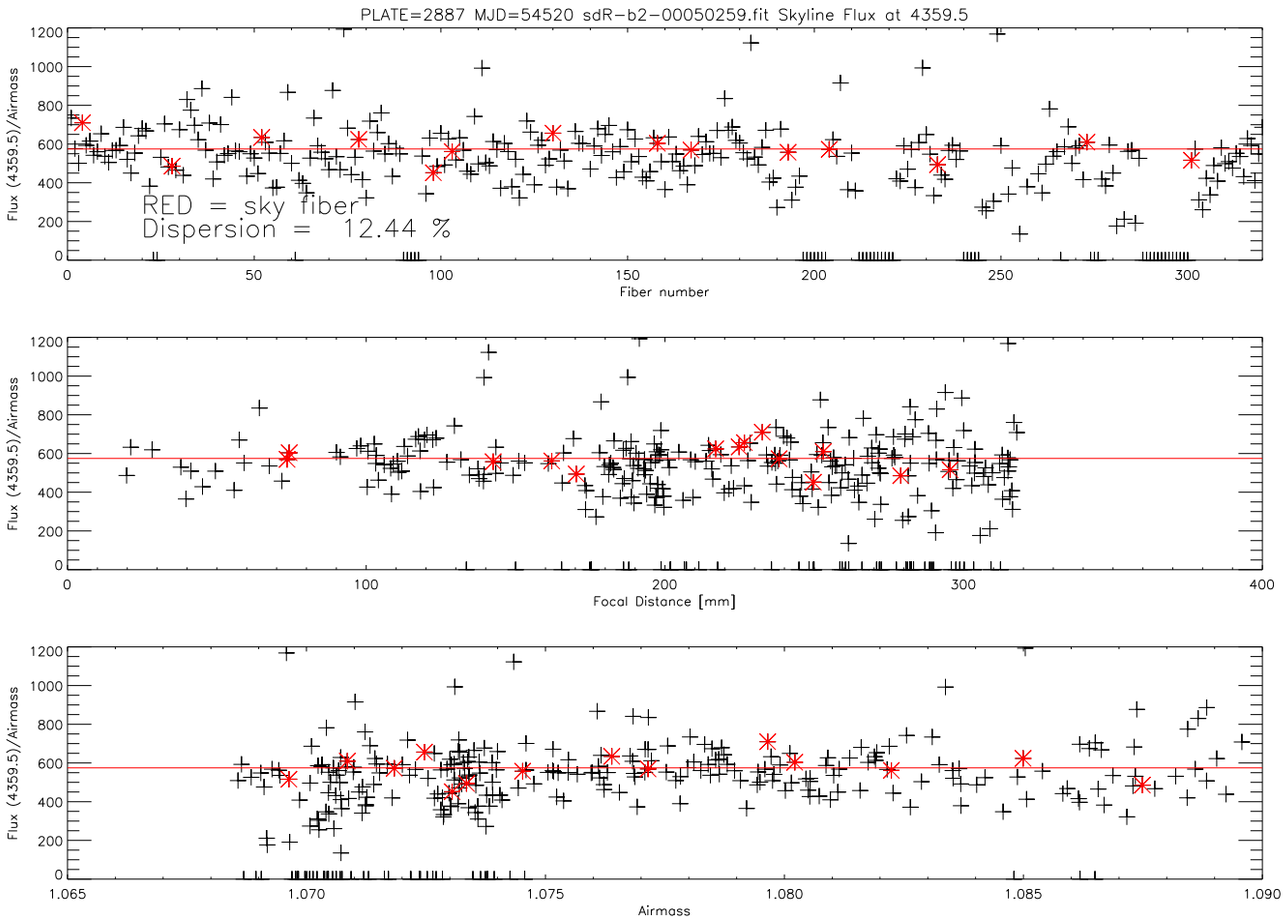

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-b2-00050259.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

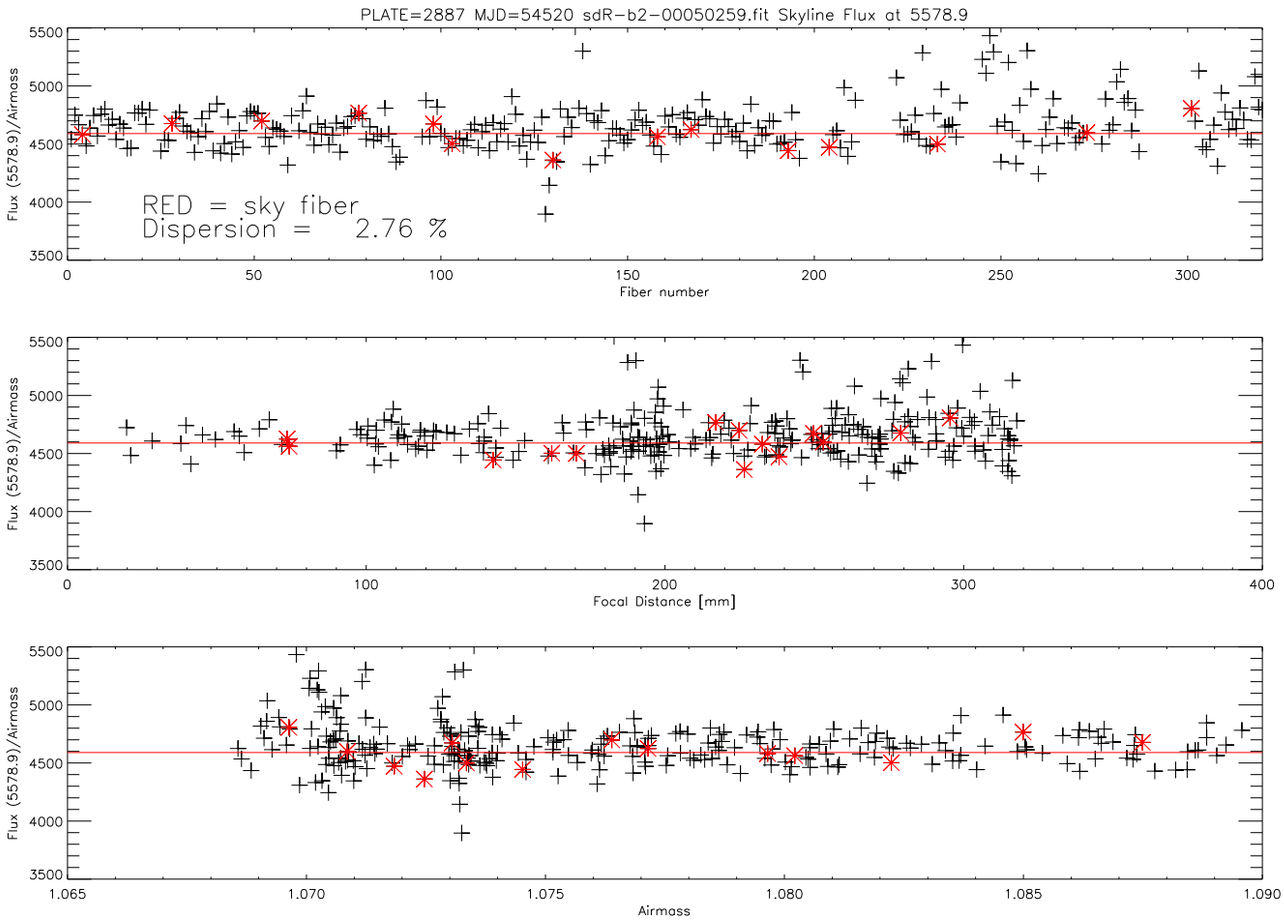

PLATE=2887 MJD=54520 sdR-b2-00050259.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

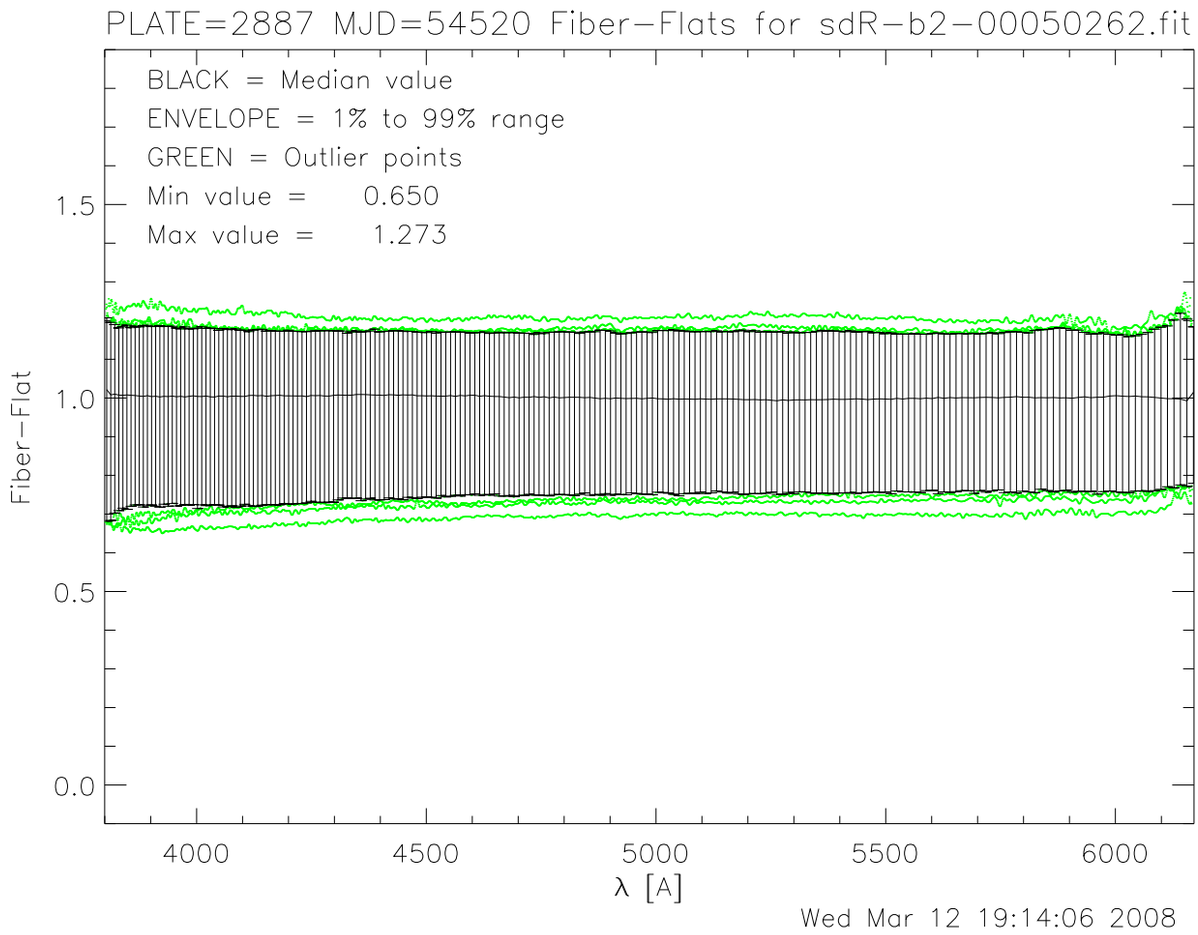

PLATE=2887 MJD=54520 sdR-b2-00050259.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

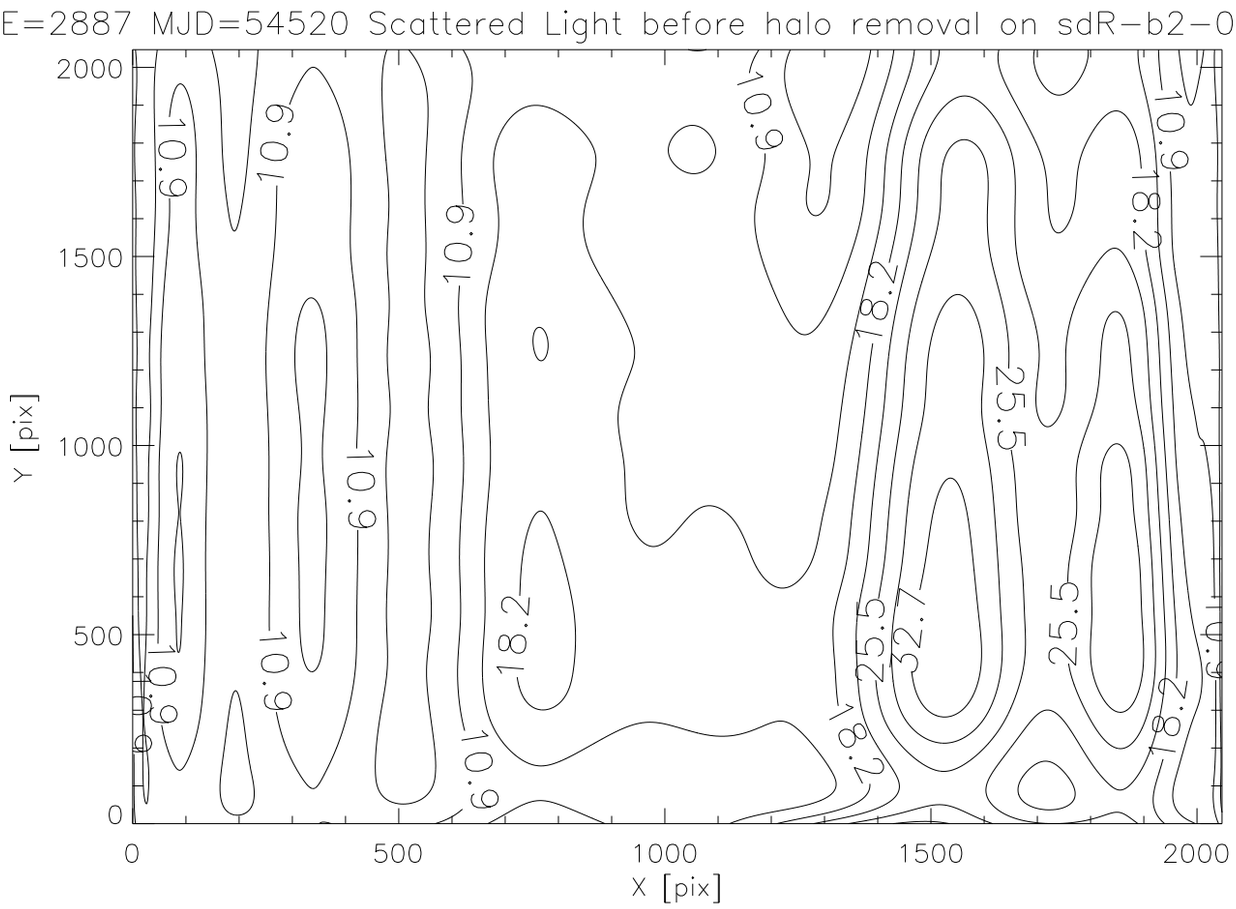

PLATE=2887 MJD=54520 sdR-b2-00050259.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

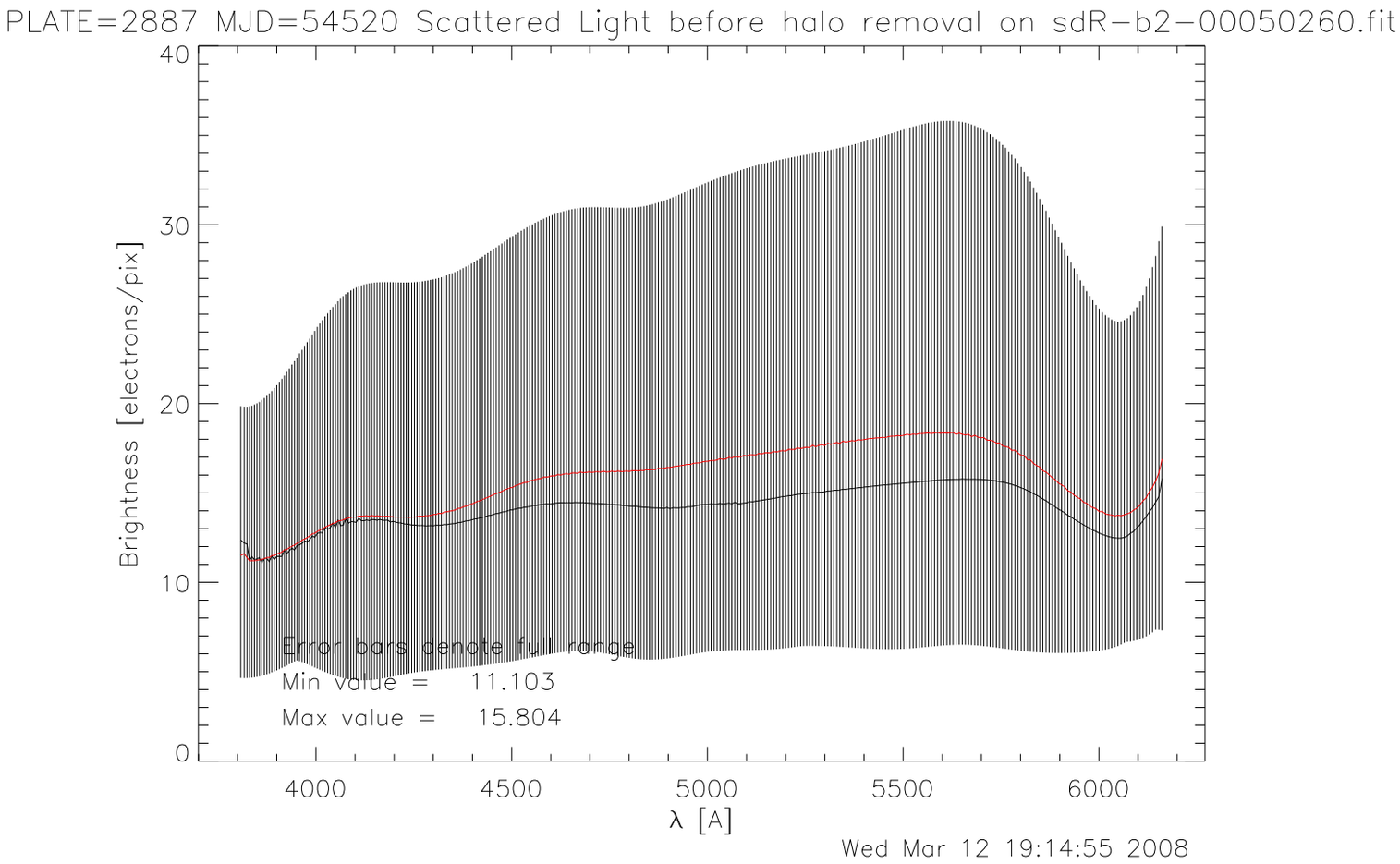

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-b2-00050259.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

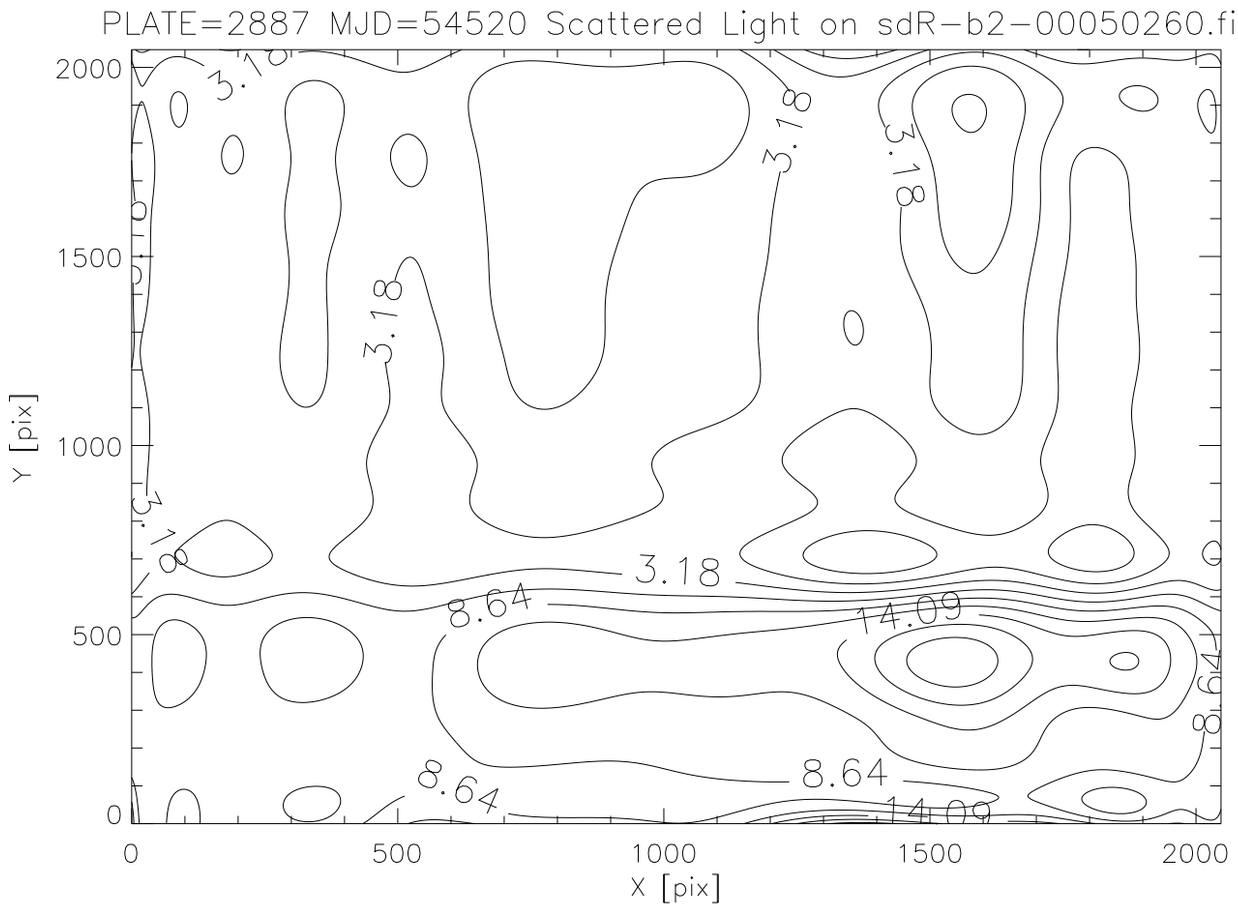

PLATE=2887 MJD=54520 sdR-b2-00050259.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 12.44 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

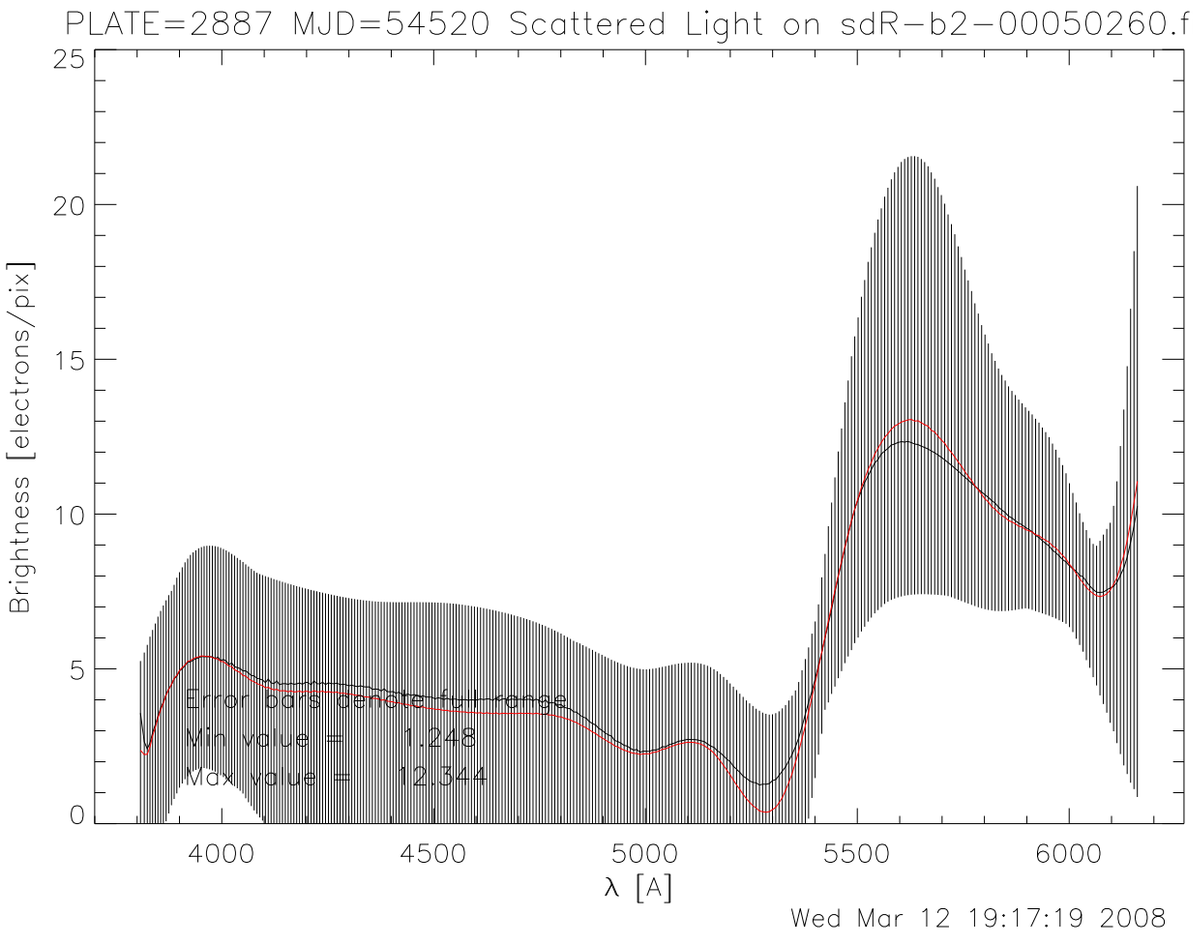

PLATE=2887 MJD=54520 sdR-b2-00050259.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.76 %
Fiber number
Focal Distance [mm]
Airmass

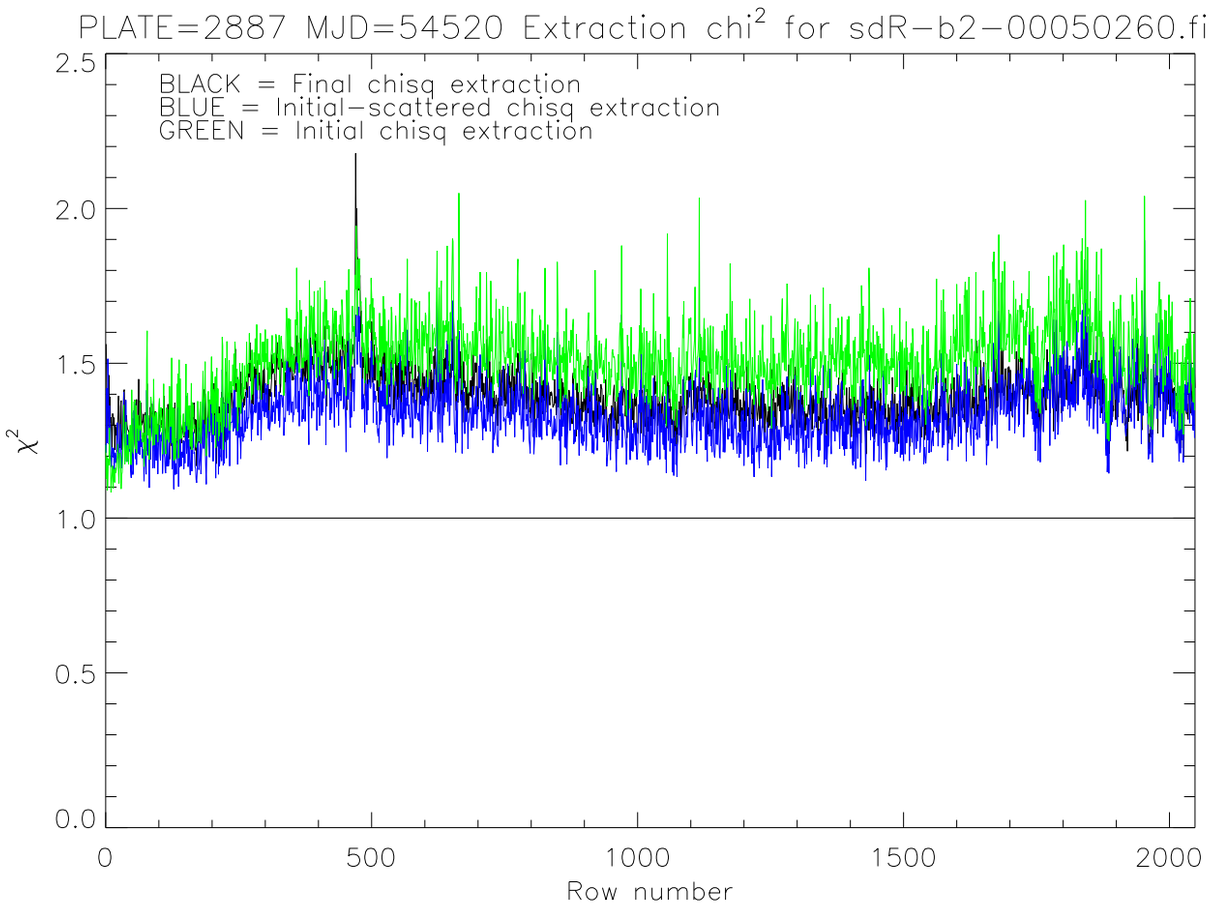

PLATE=2887 MJD=54520 Fiber-Flats for sdR-b2-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.650
Max value = 1.273
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:14:06 2008

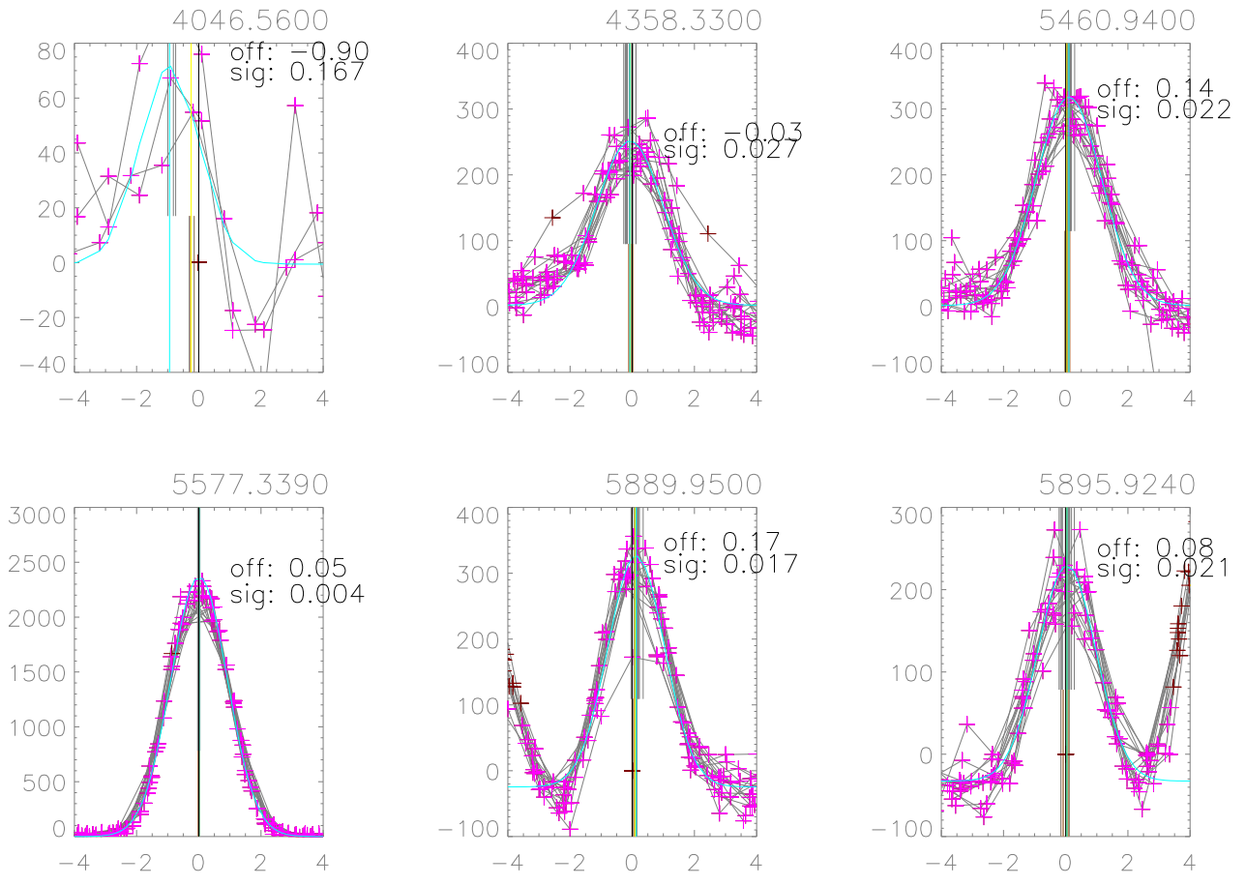

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b2-00050260.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2
25.5
32.7

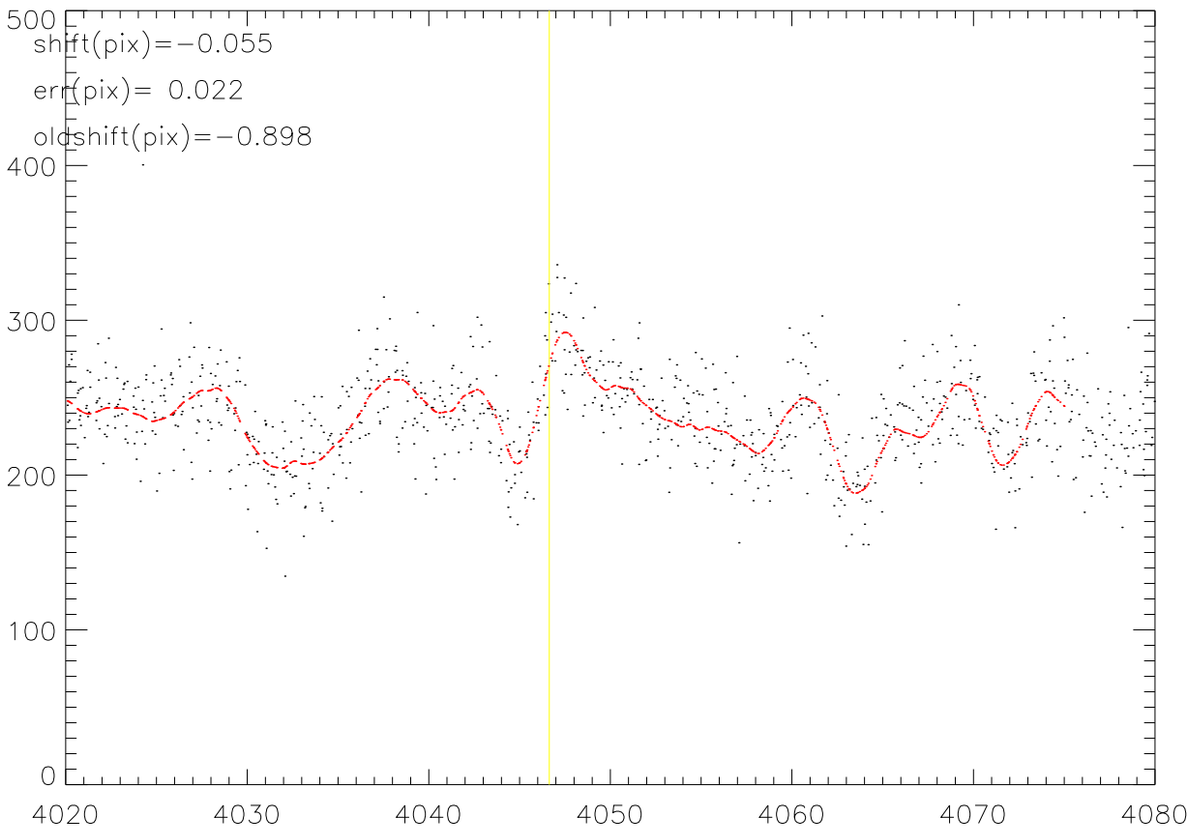

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b2-00050260.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 11.103
Max value = 15.804
Wed Mar 12 19:14:55 2008

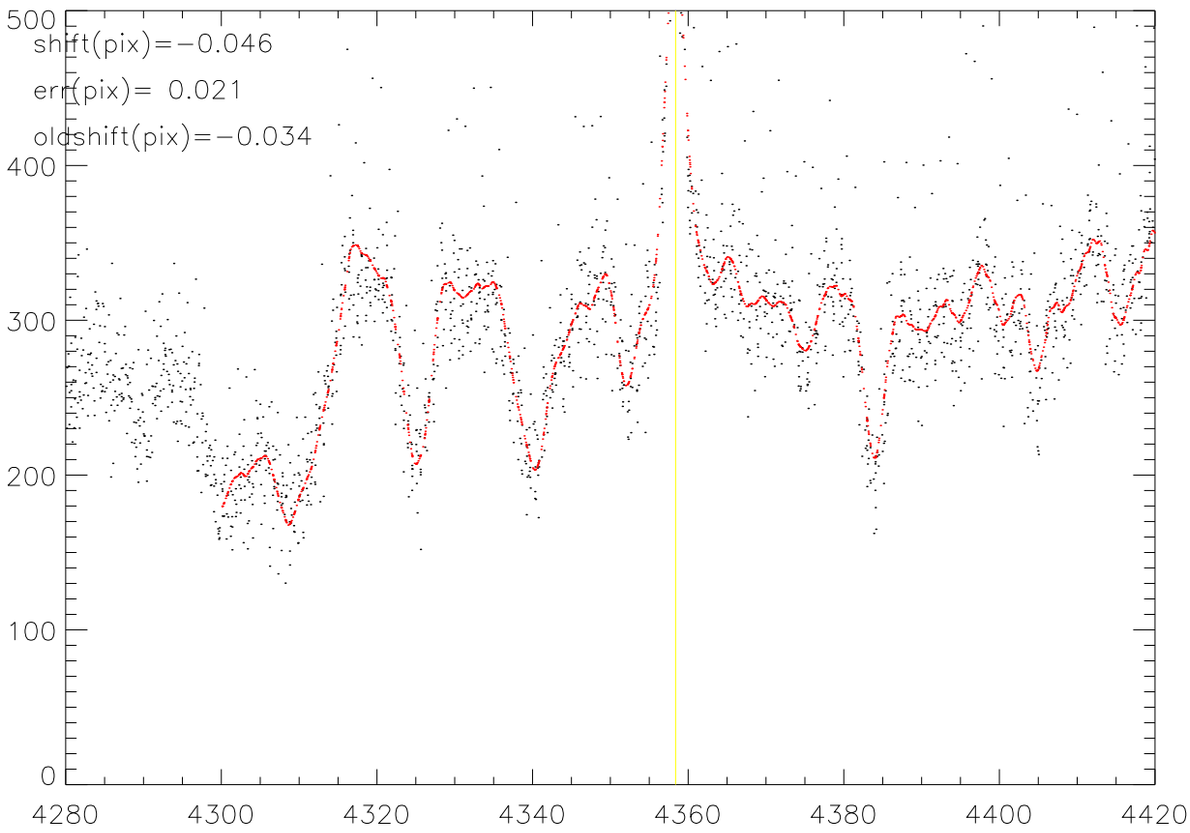

PLATE=2887 MJD=54520 Scattered Light on sdR-b2-00050260.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.18
8.64
14.09

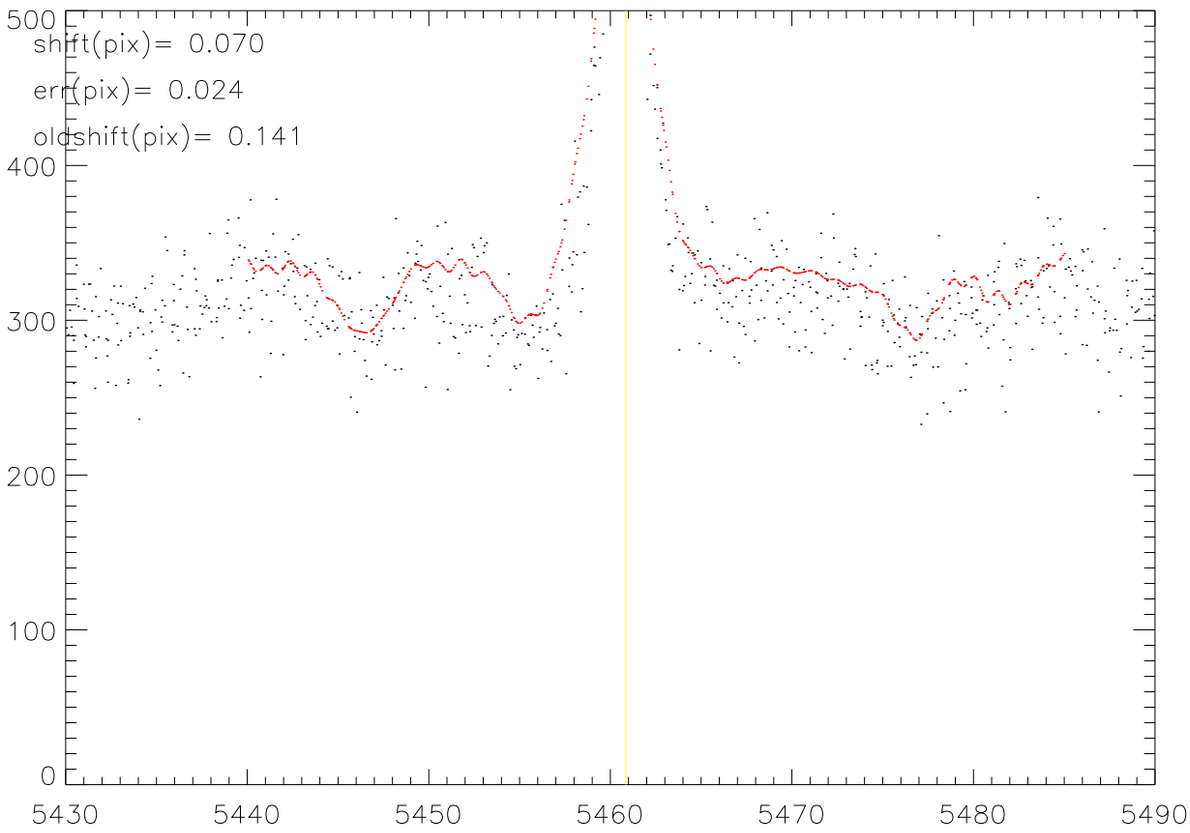

PLATE=2887 MJD=54520 Scattered Light on sdR-b2-00050260.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.248
Max value = 12.344
Wed Mar 12 19:17:19 2008

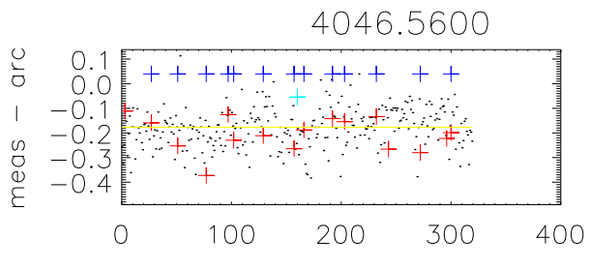

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-b2-00050260.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

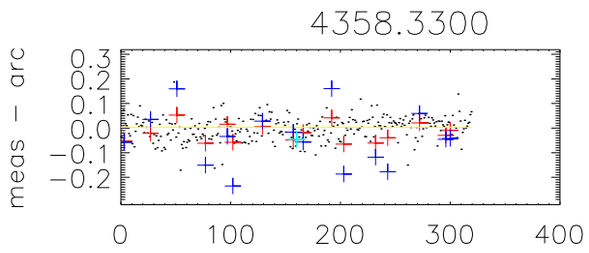

4046.5600
off: −0.90
sig: 0.167
4358.3300
off: −0.03
sig: 0.027
5460.9400
off: 0.14
sig: 0.022
5577.3390
off: 0.05
sig: 0.004
5889.9500
off: 0.17
sig: 0.017
5895.9240
off: 0.08
sig: 0.021

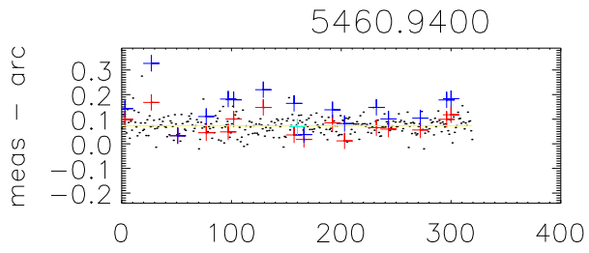

shift(pix)=−0.055
err(pix)= 0.022
oldshift(pix)=−0.898
500
400
300
200
100
0
4020
4030
4040
4050
4060
4070
4080

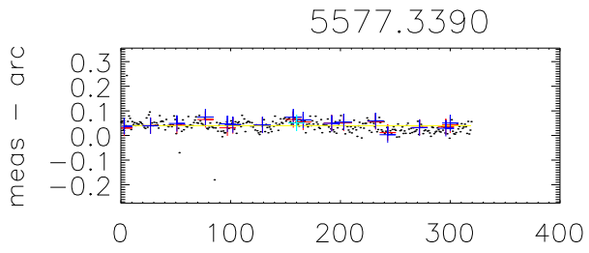

shift(pix)=−0.046
err(pix)= 0.021
oldshift(pix)=−0.034
500
400
300
200
100
0
4280
4300
4320
4340
4360
4380
4400
4420

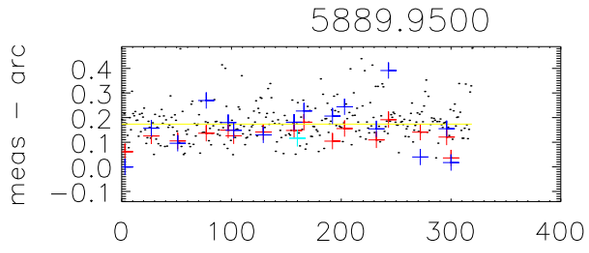

shift(pix)= 0.070
err(pix)= 0.024
oldshift(pix)= 0.141
500
400
300
200
100
0
5430
5440
5450
5460
5470
5480
5490

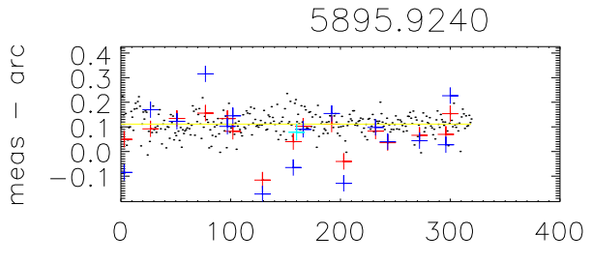

4046.5600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

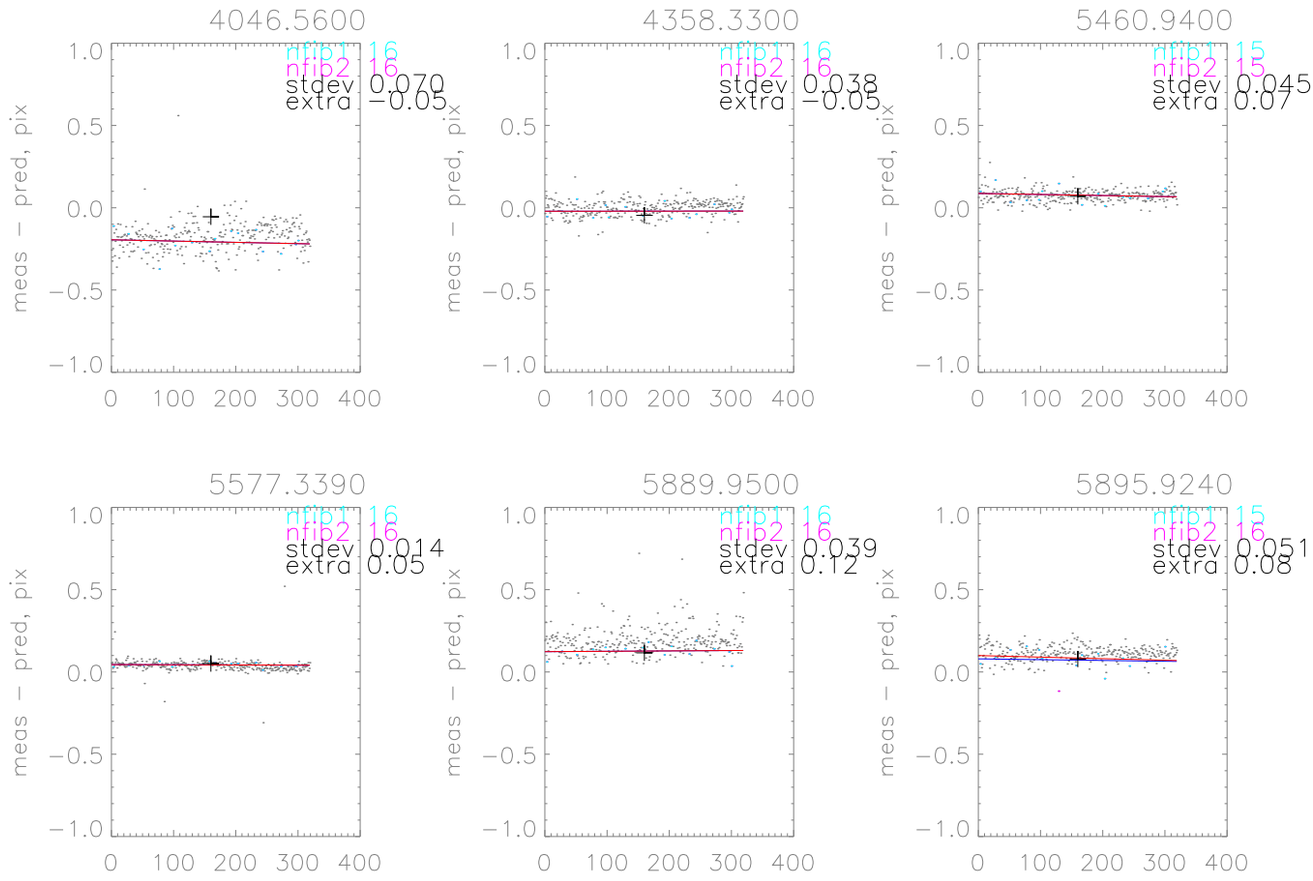

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

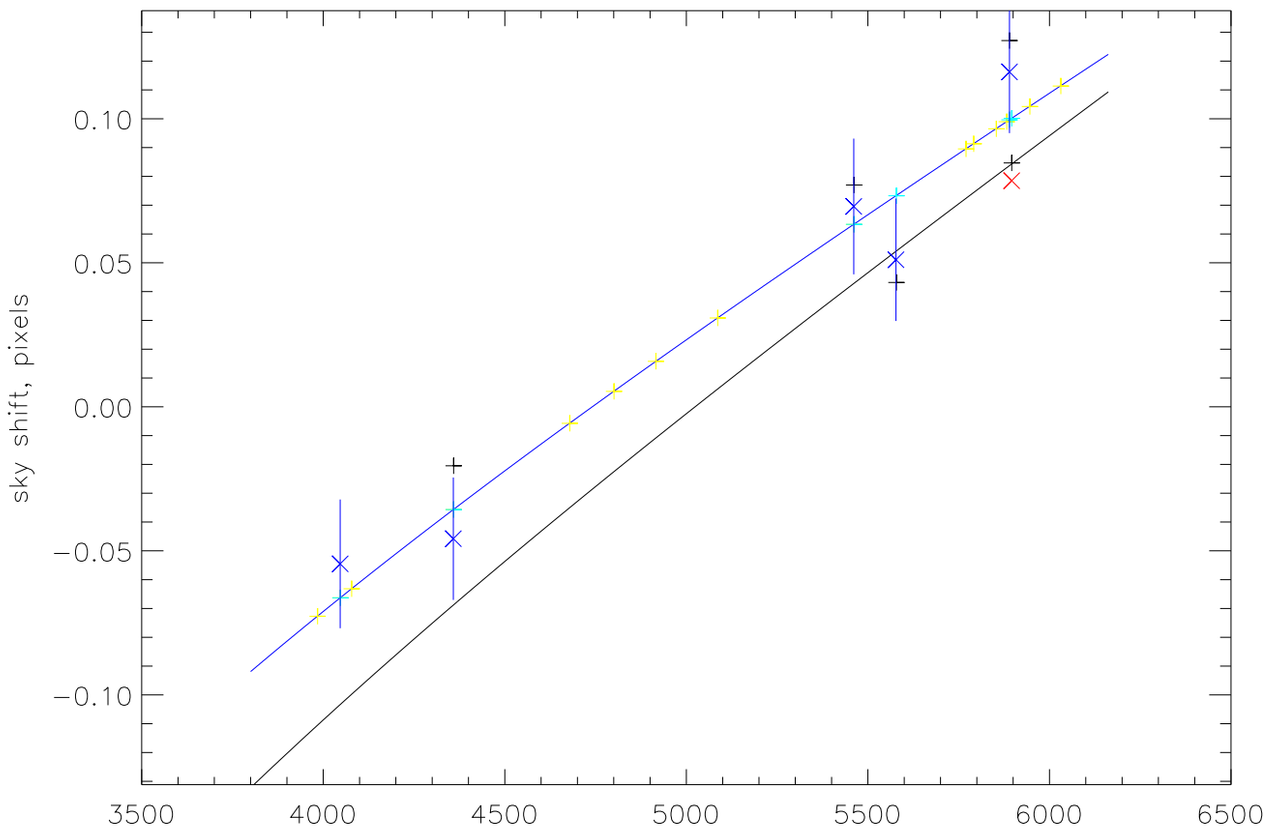

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

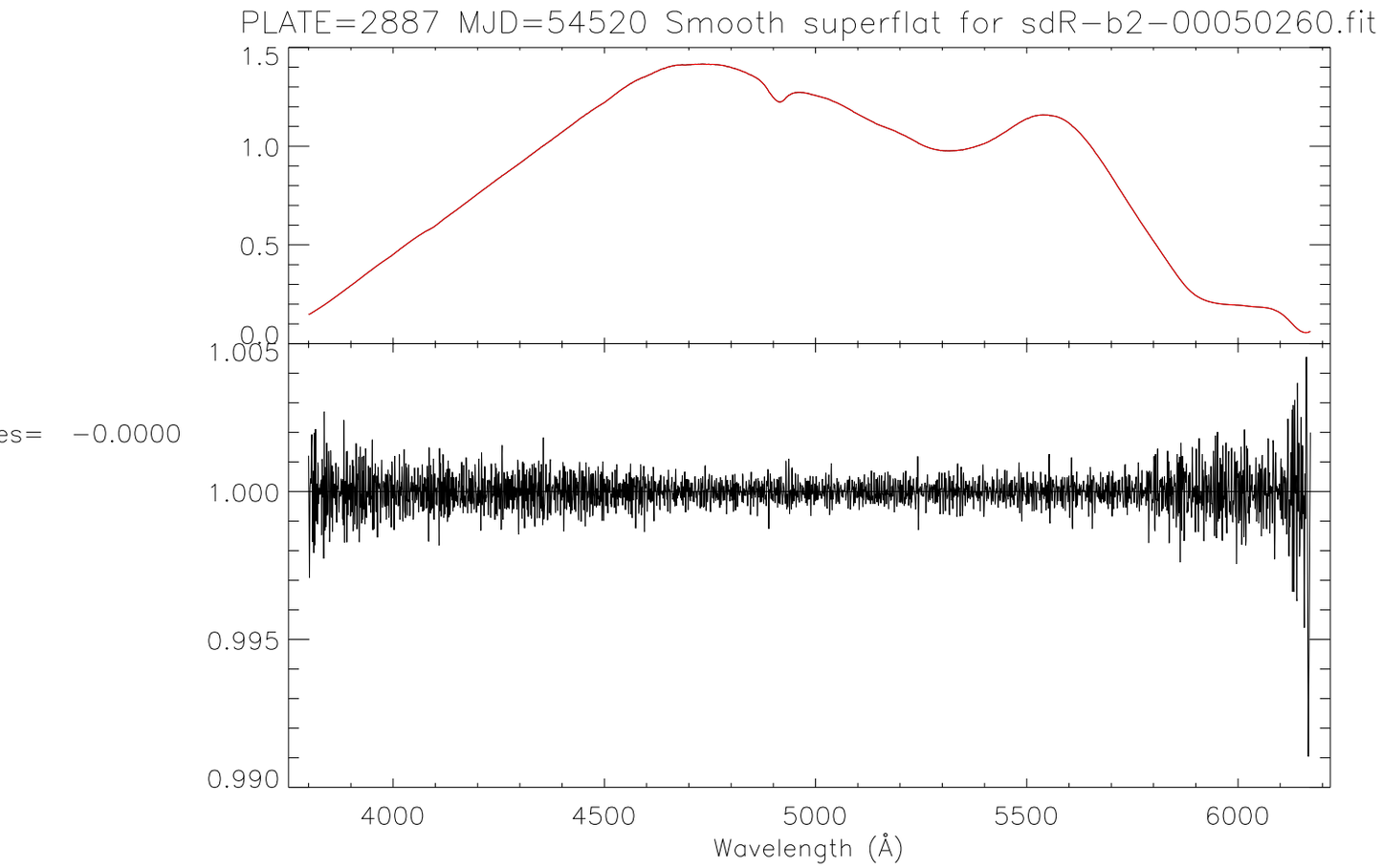

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

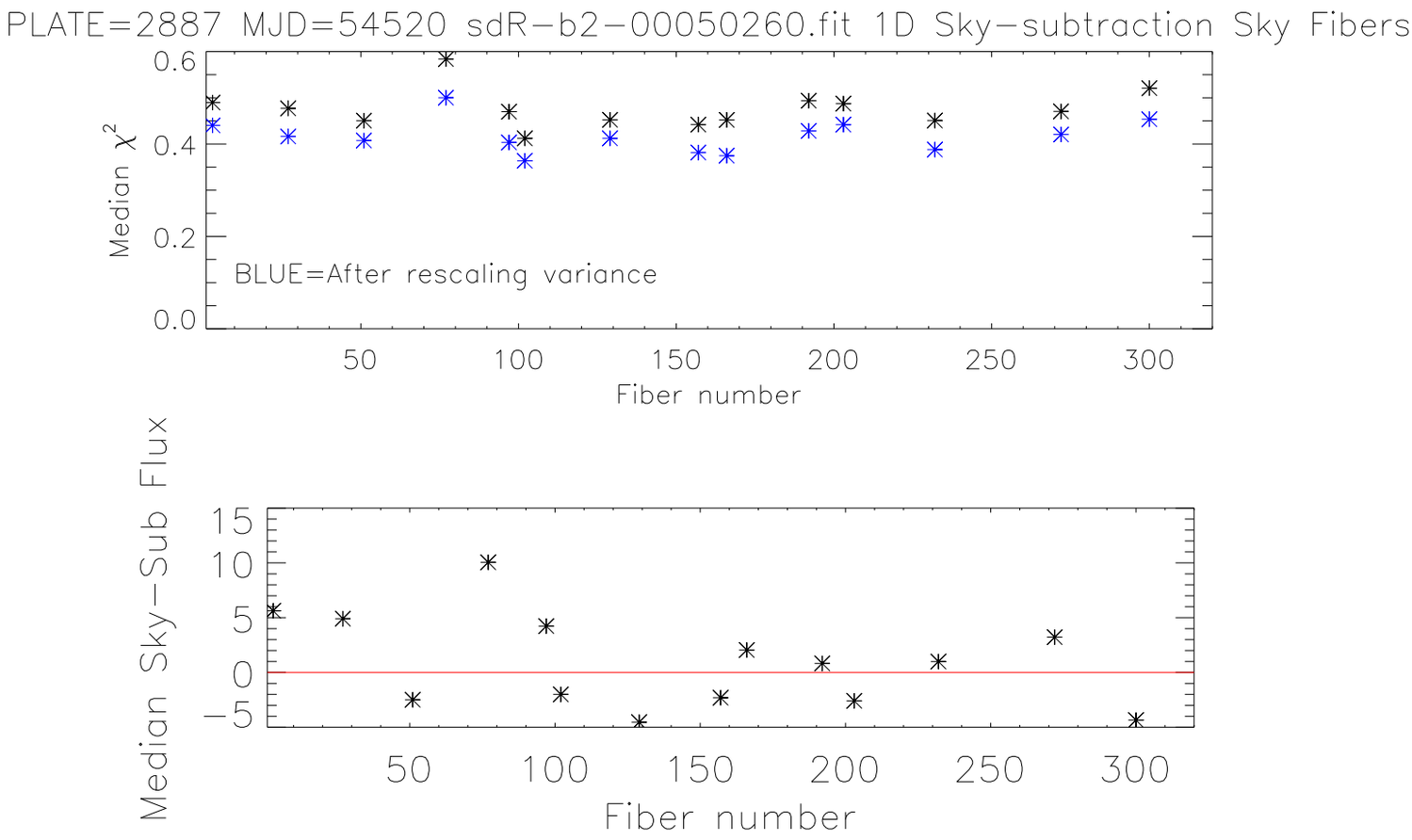

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

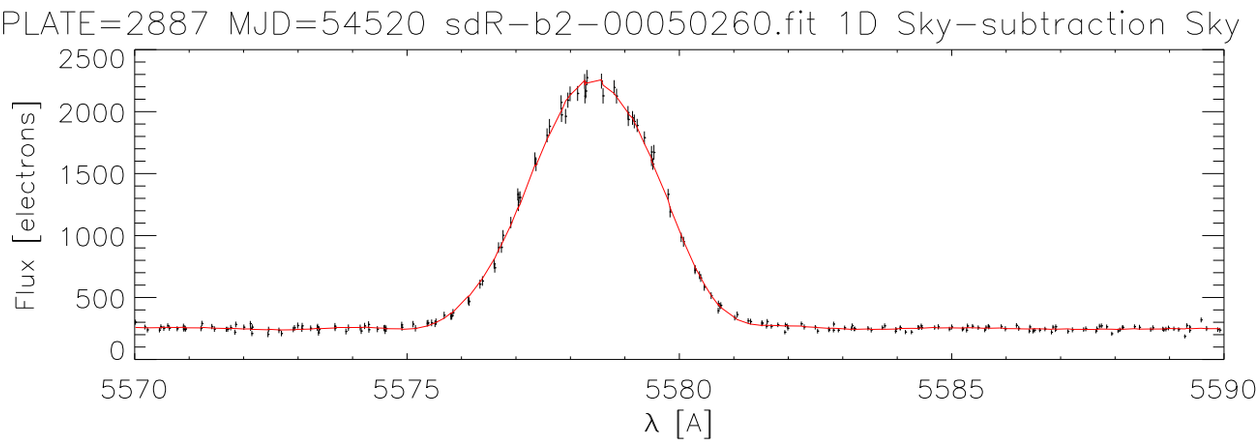

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

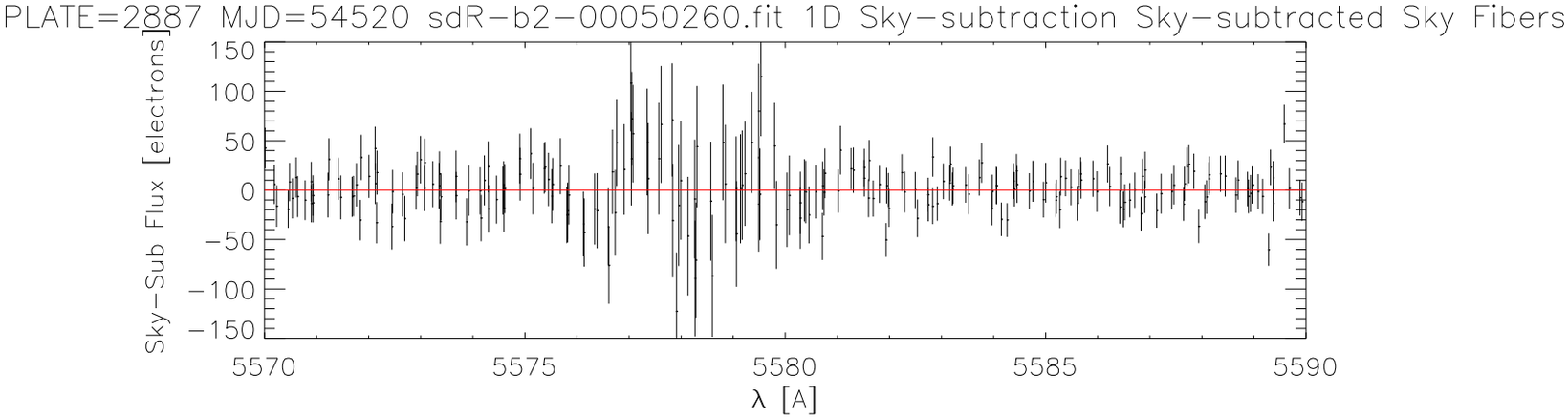

4046.5600
nfib1 16
nfib2 16
stdev 0.070
extra −0.05
4358.3300
nfib1 16
nfib2 16
stdev 0.038
extra −0.05
5460.9400
nfib1 15
nfib2 15
stdev 0.045
extra 0.07
5577.3390
nfib1 16
nfib2 16
stdev 0.014
extra 0.05
5889.9500
nfib1 16
nfib2 16
stdev 0.039
extra 0.12
5895.9240
nfib1 15
nfib2 16
stdev 0.051
extra 0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

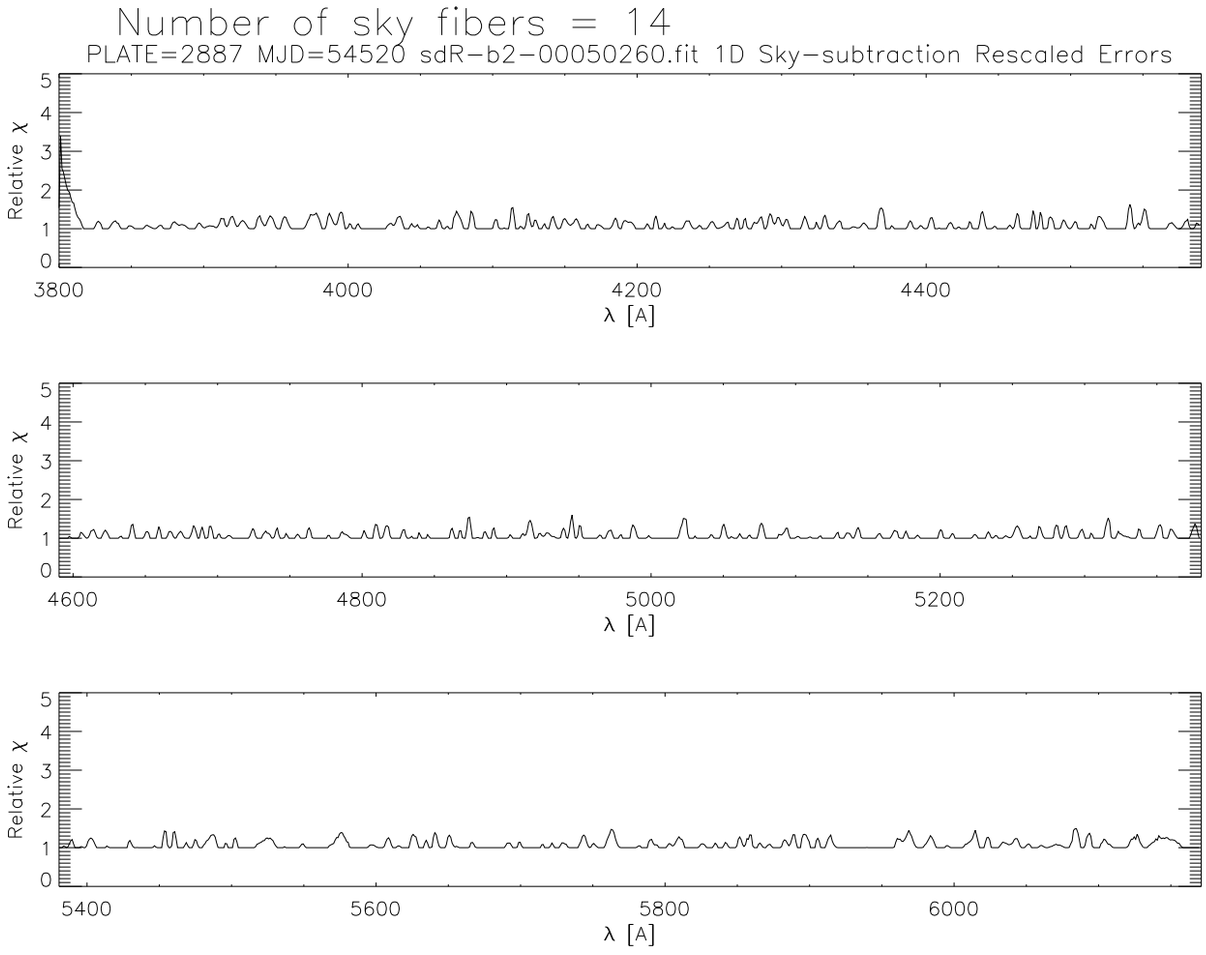

sky shift, pixels
0.10
0.05
0.00
−0.05
−0.10
3500
4000
4500
5000
5500
6000
6500

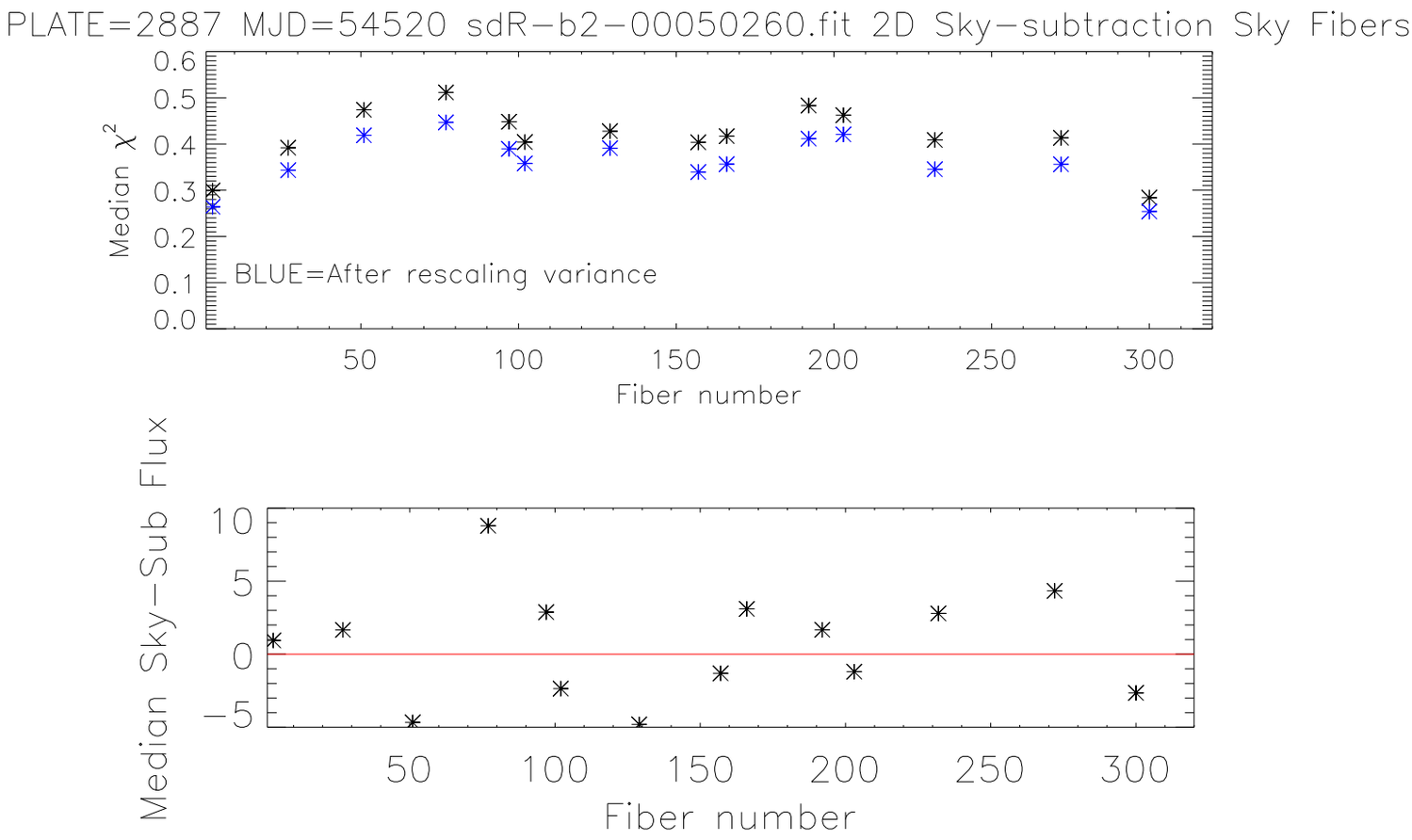

PLATE=2887 MJD=54520 Smooth superflat for sdR-b2-00050260.fit
1.5
1.0
0.5
0.0
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

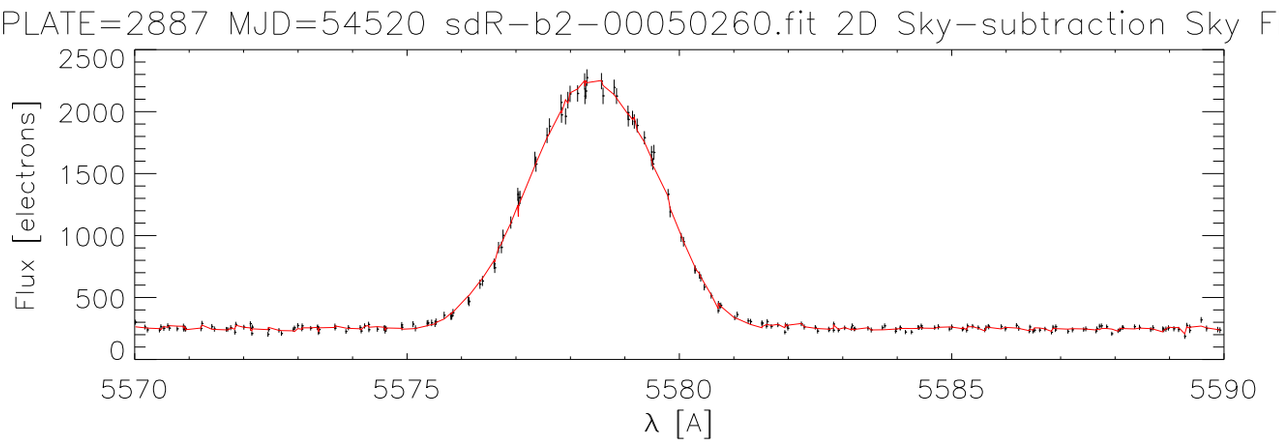

PLATE=2887 MJD=54520 sdR-b2-00050260.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
-5
50
100
150
200
250
300
Fiber number

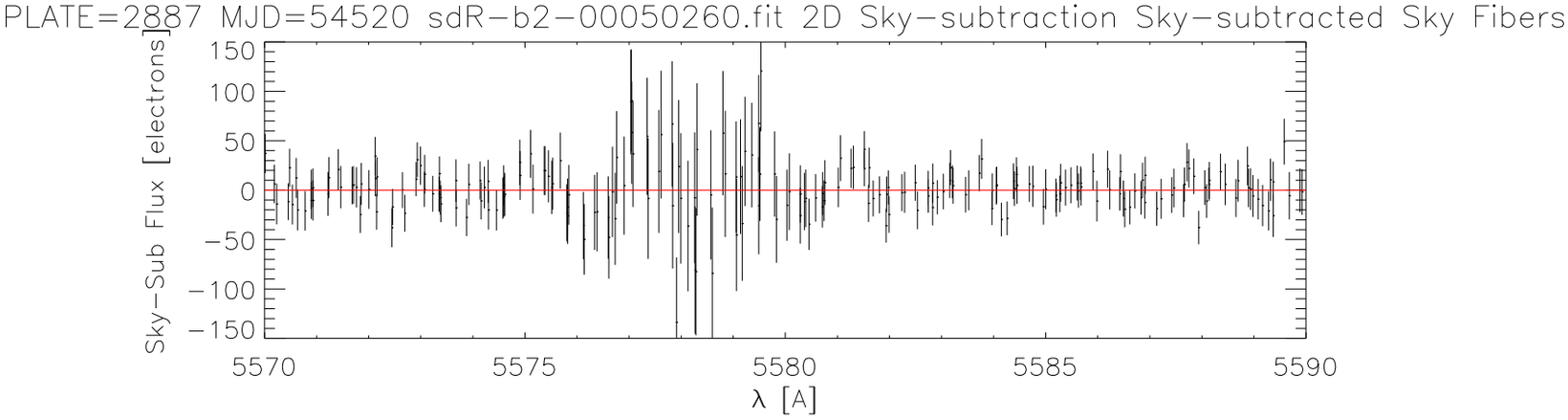

PLATE=2887 MJD=54520 sdR-b2-00050260.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

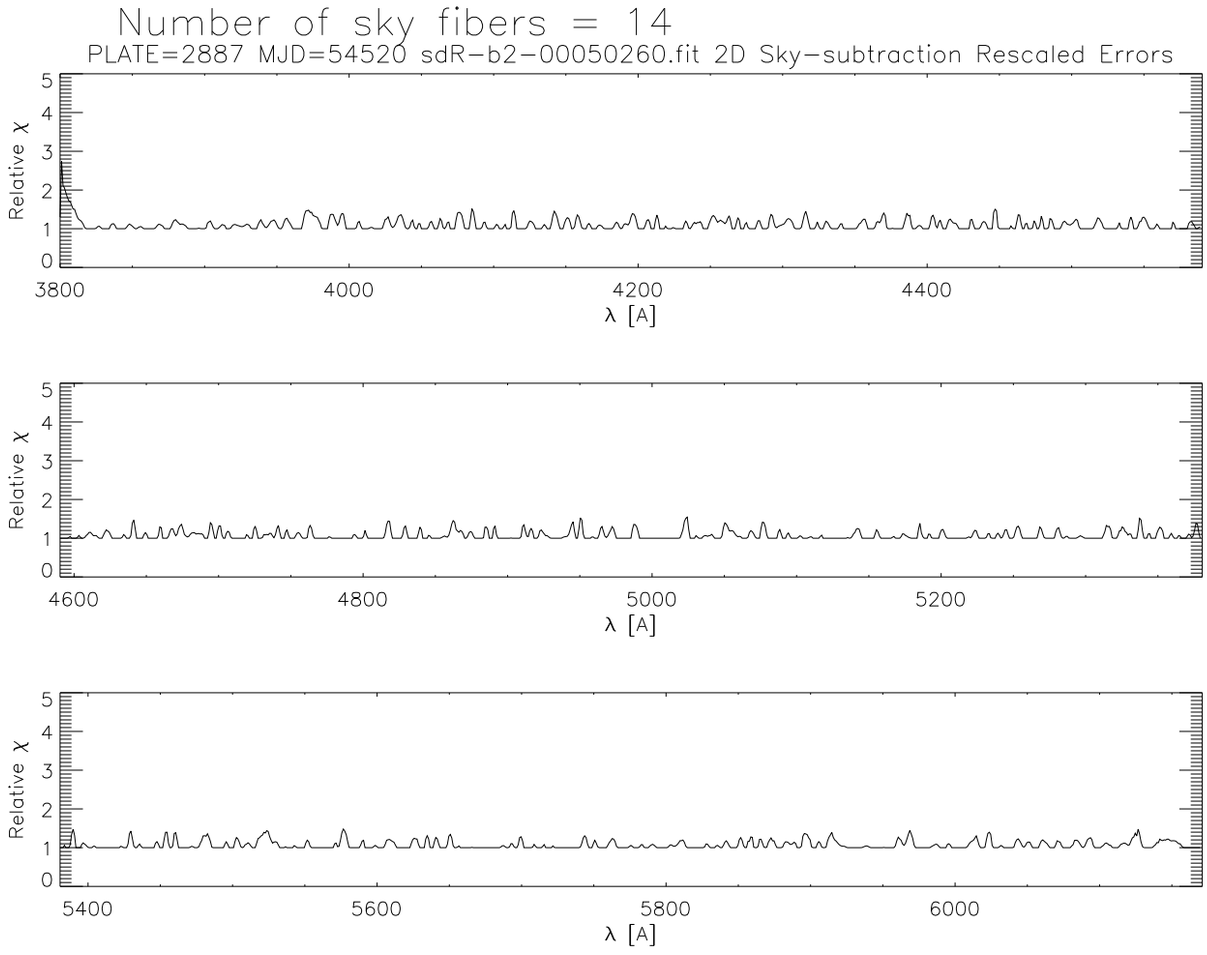

PLATE=2887 MJD=54520 sdR-b2-00050260.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

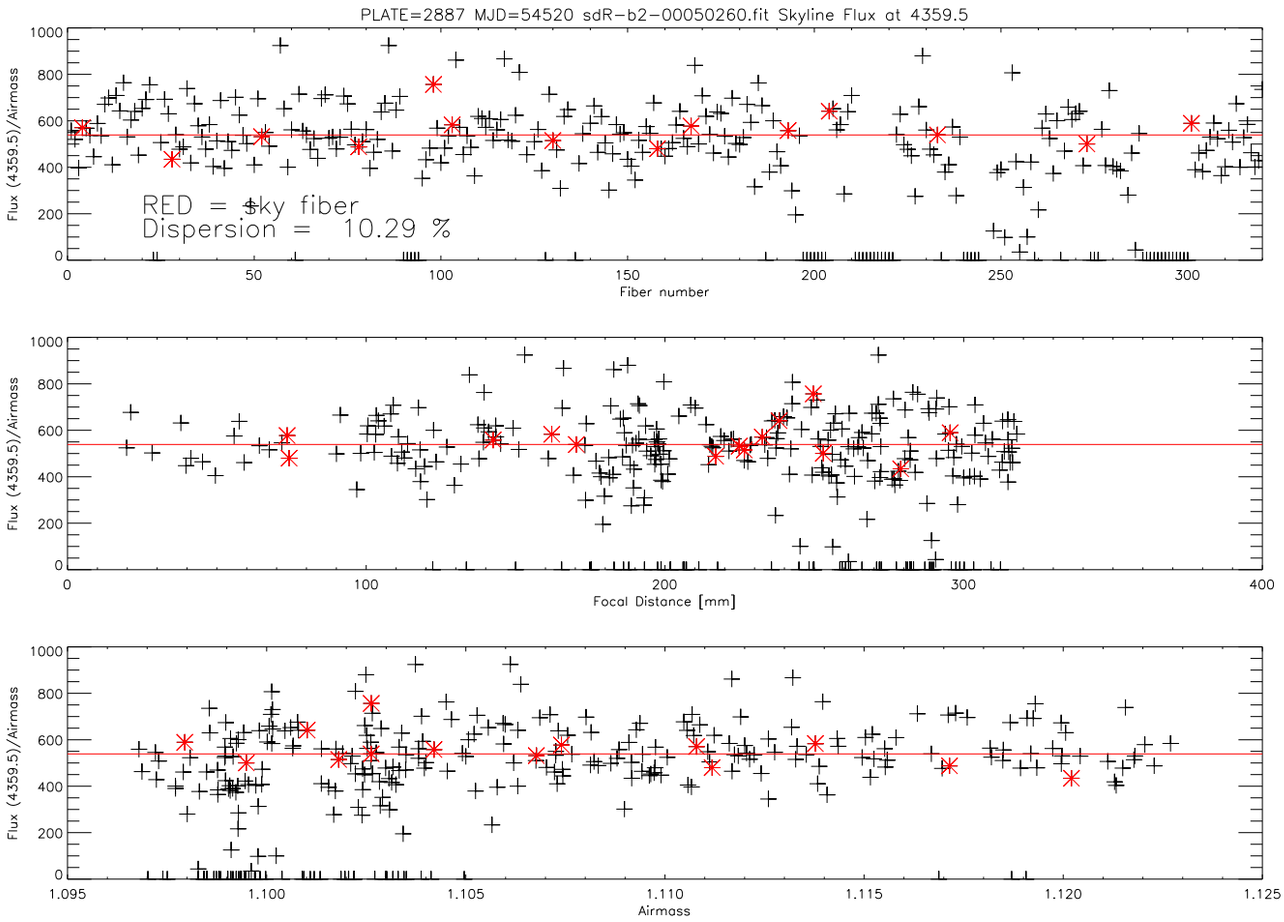

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-b2-00050260.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

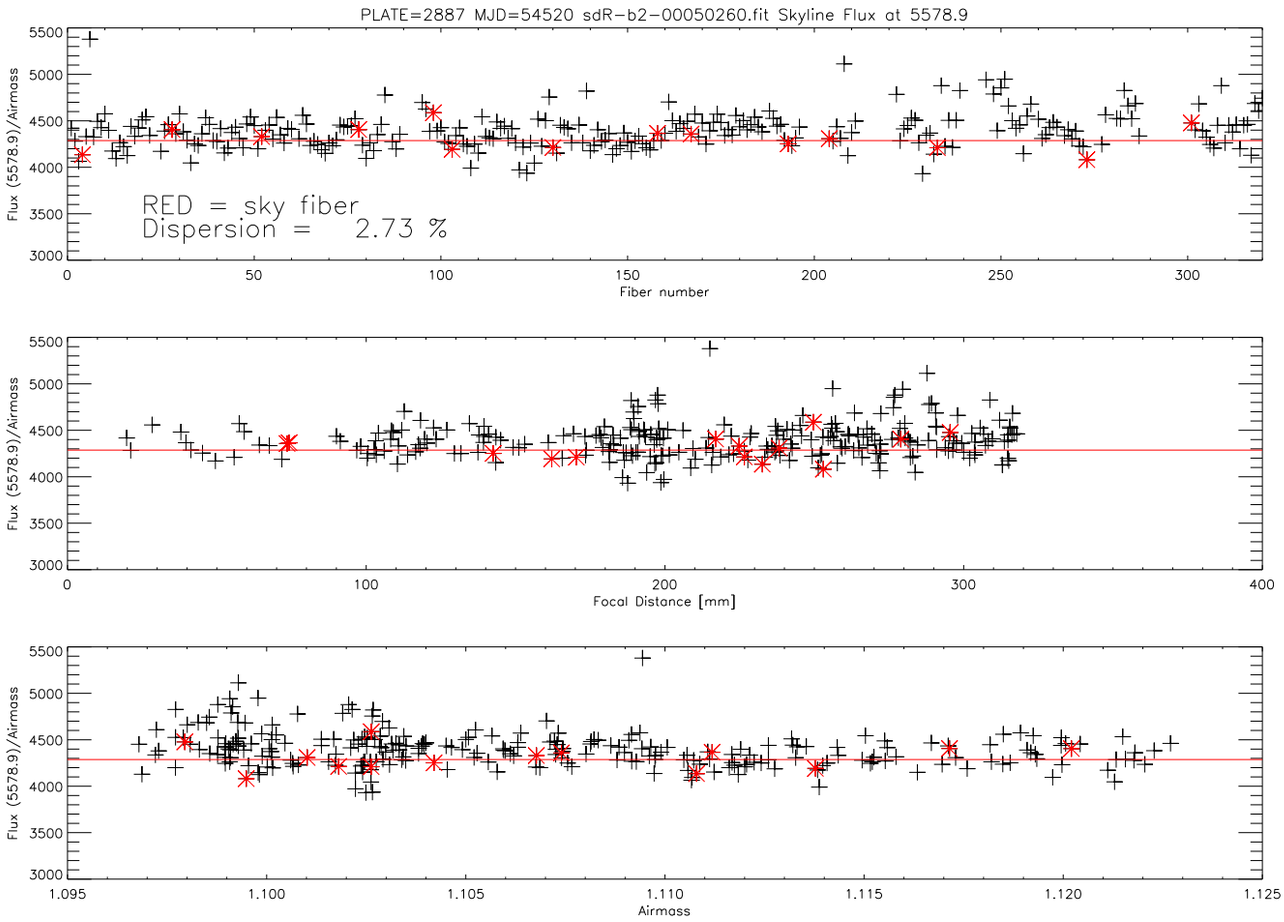

PLATE=2887 MJD=54520 sdR-b2-00050260.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

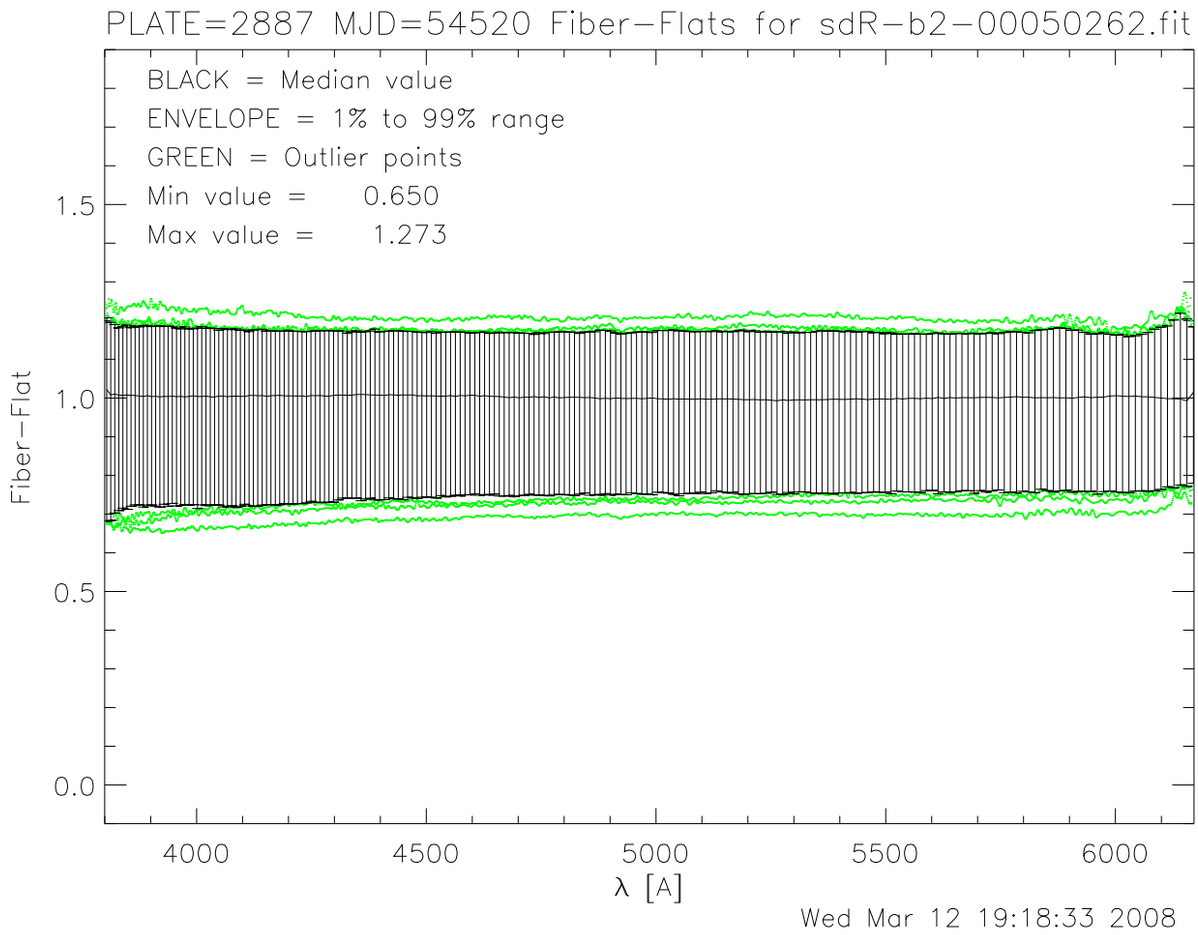

PLATE=2887 MJD=54520 sdR-b2-00050260.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

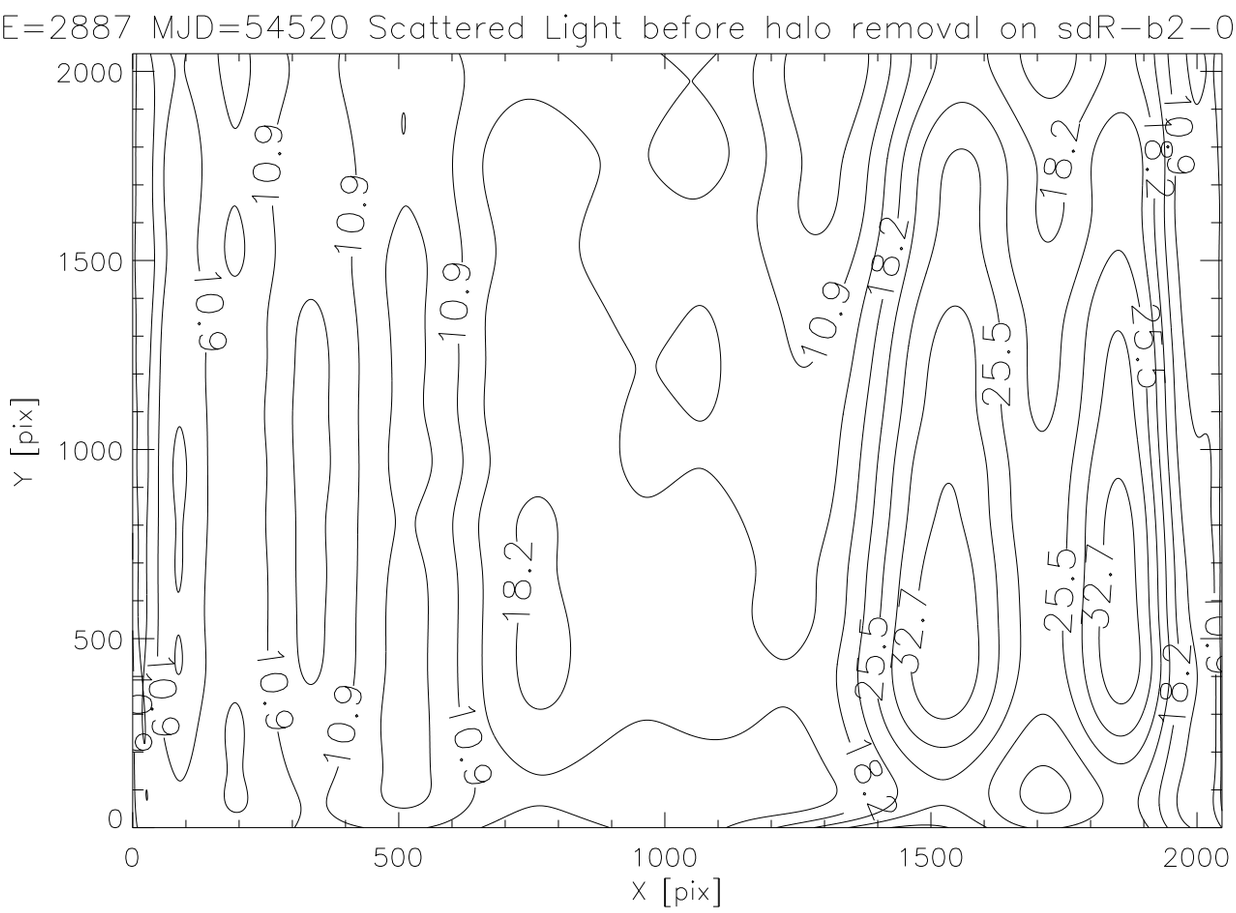

PLATE=2887 MJD=54520 sdR-b2-00050260.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
5570
5575
5580
5585
5590
λ [A]

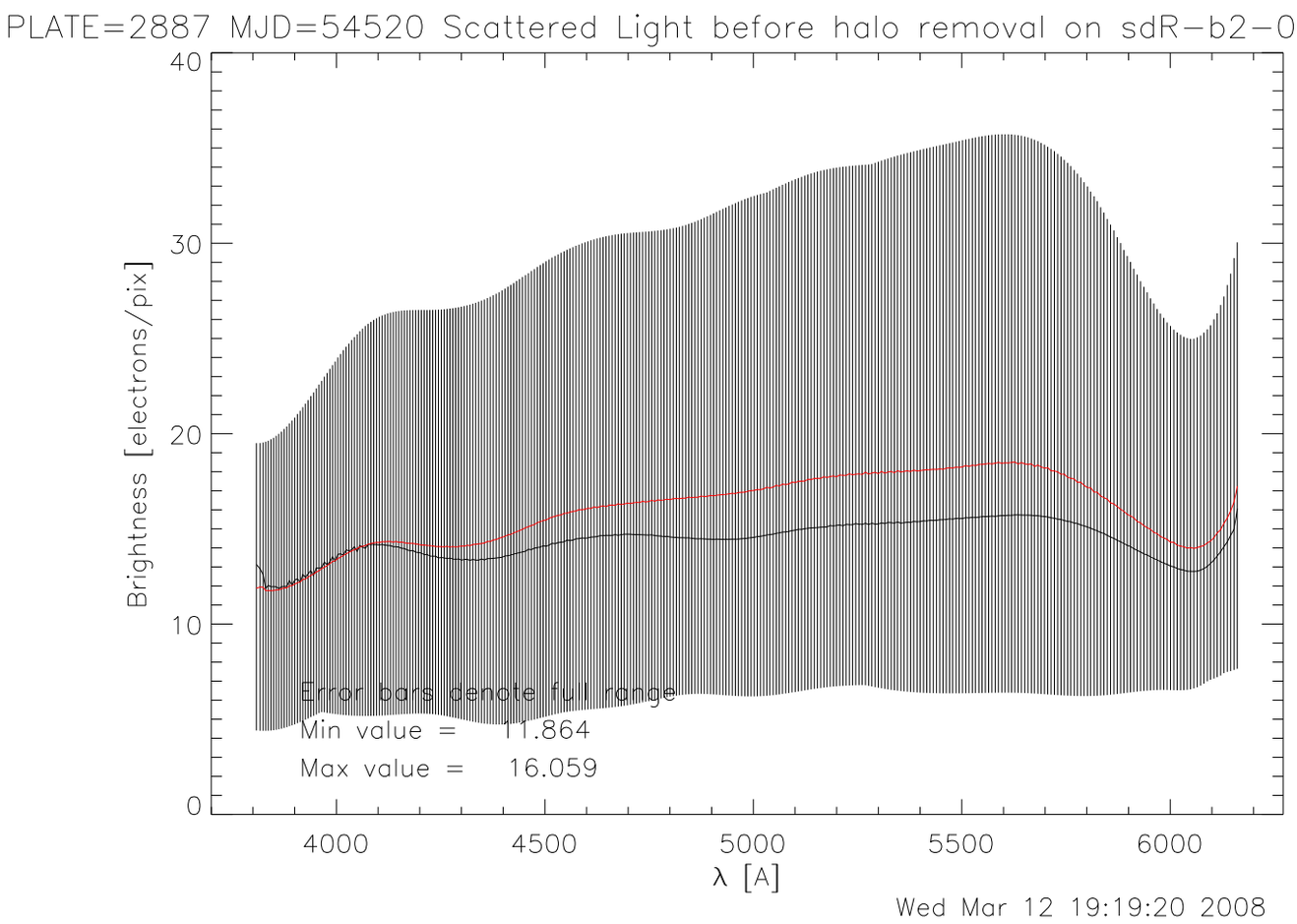

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-b2-00050260.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

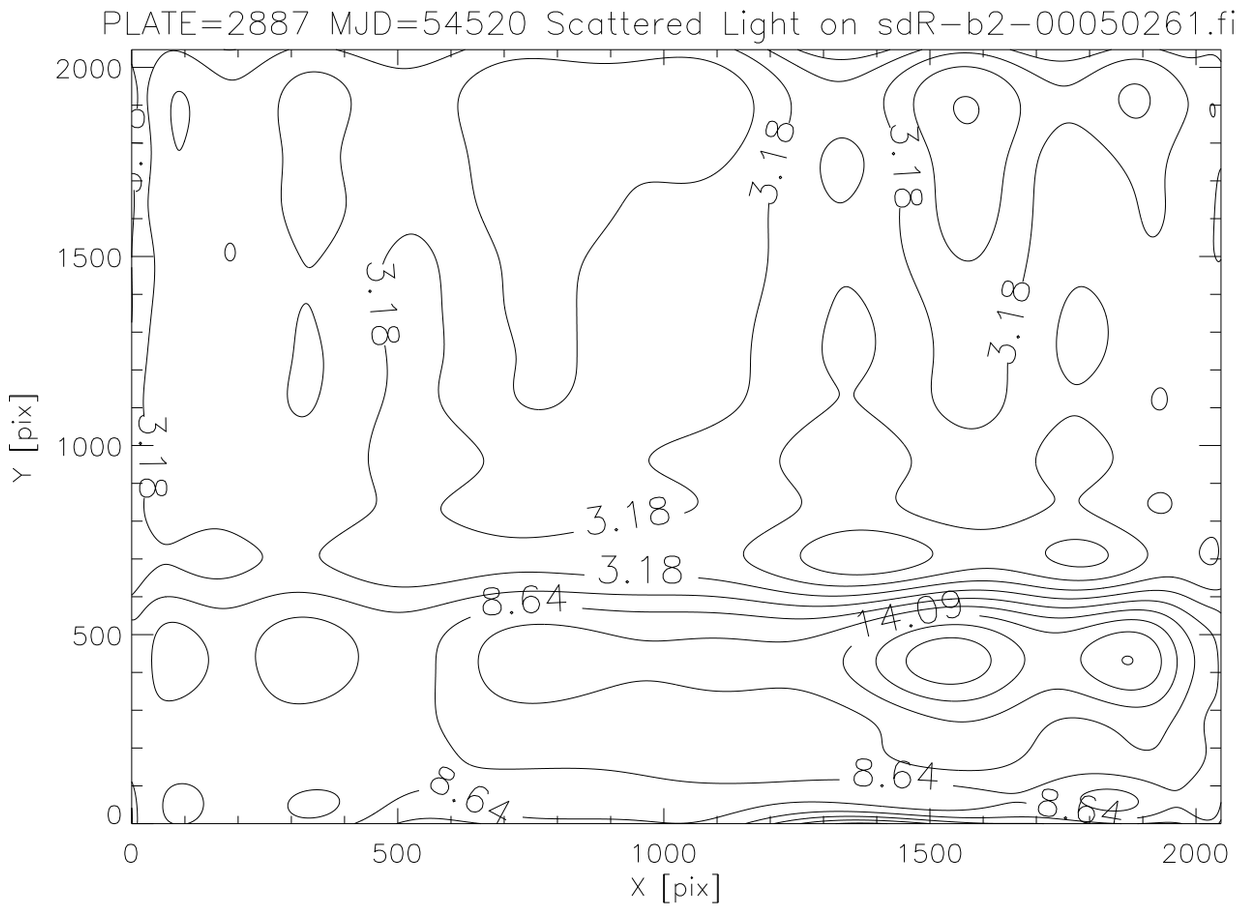

PLATE=2887 MJD=54520 sdR-b2-00050260.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 10.29 %
Fiber number
Focal Distance [mm]
Airmass

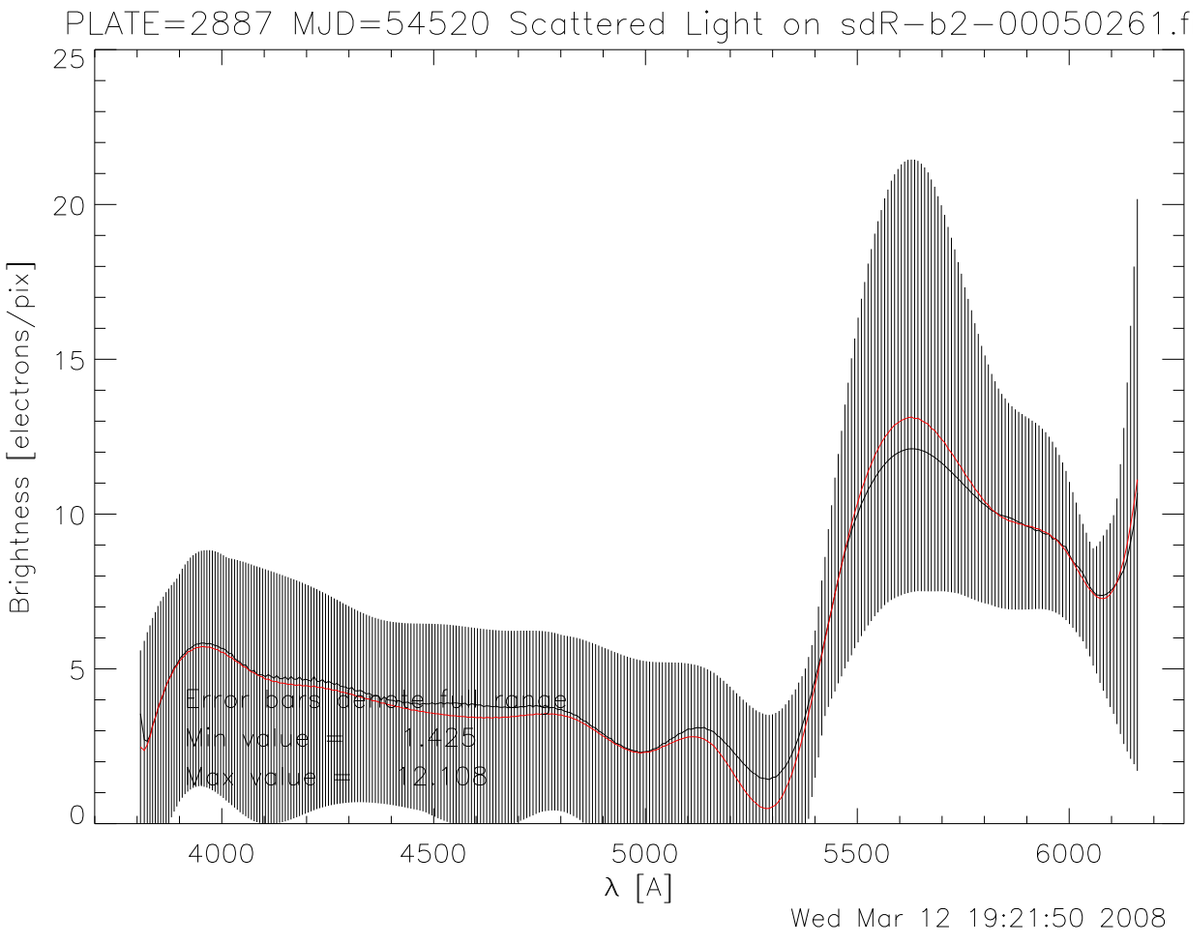

PLATE=2887 MJD=54520 sdR-b2-00050260.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.73 %
Fiber number
Focal Distance [mm]
Airmass

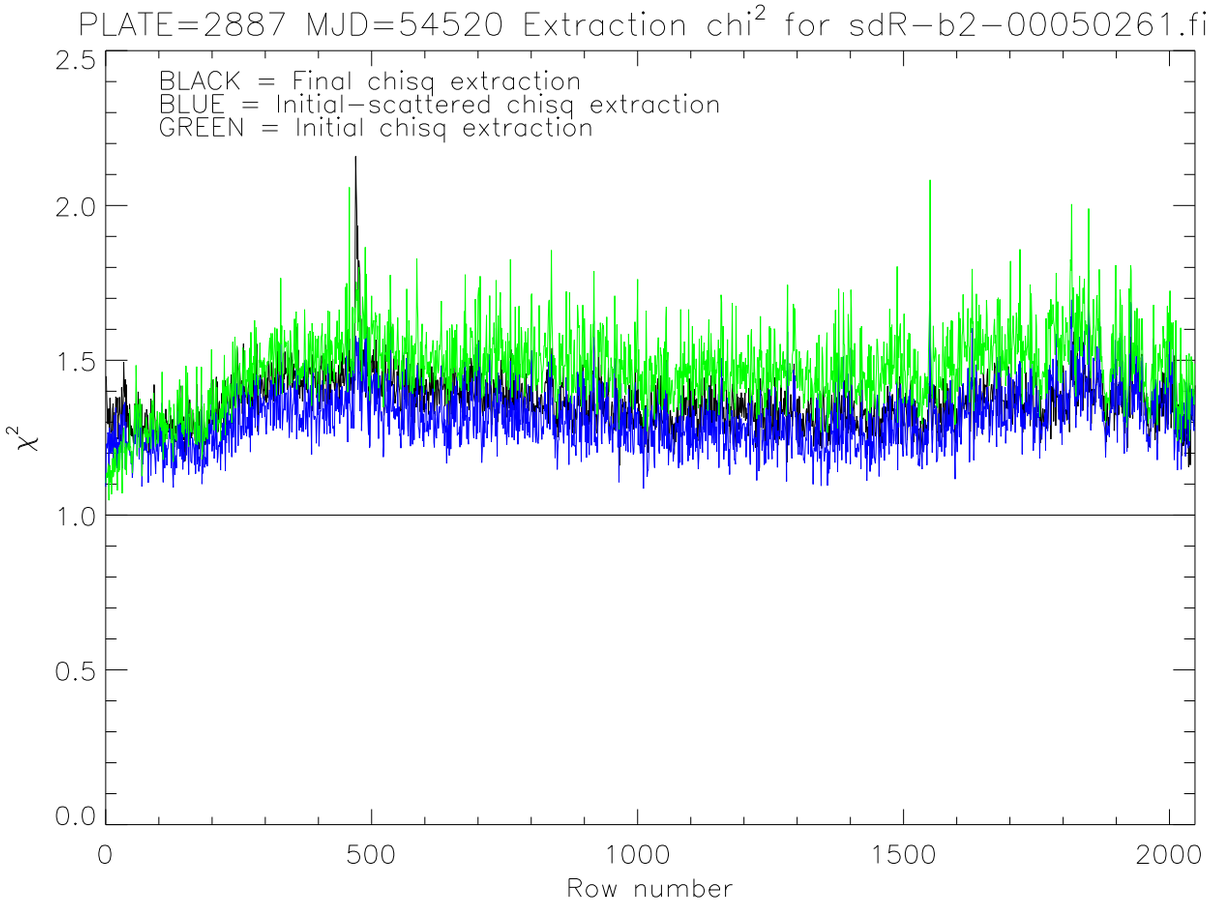

PLATE=2887 MJD=54520 Fiber-Flats for sdR-b2-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.650
Max value = 1.273
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:18:33 2008

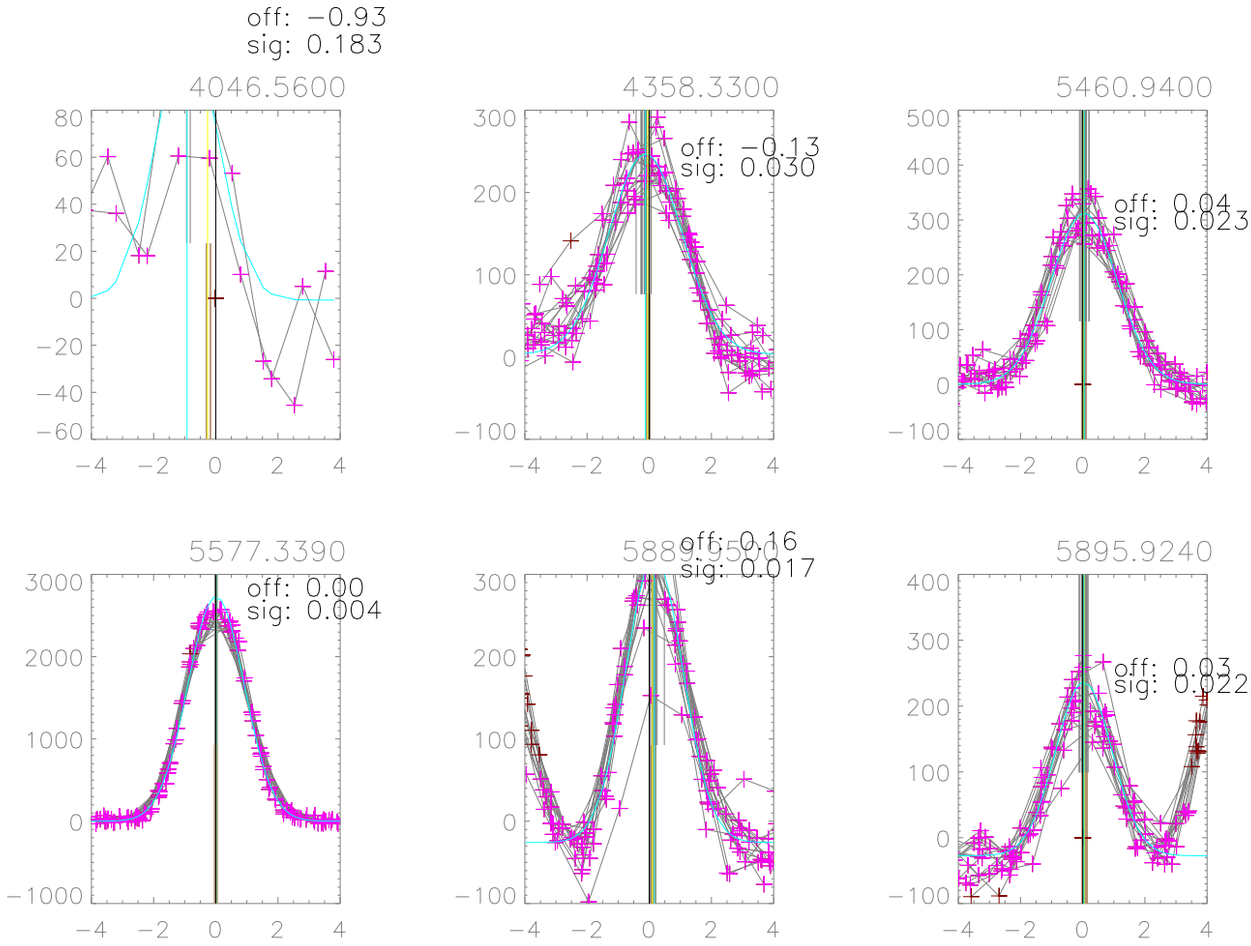

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b2-00050261.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2
25.5
32.7

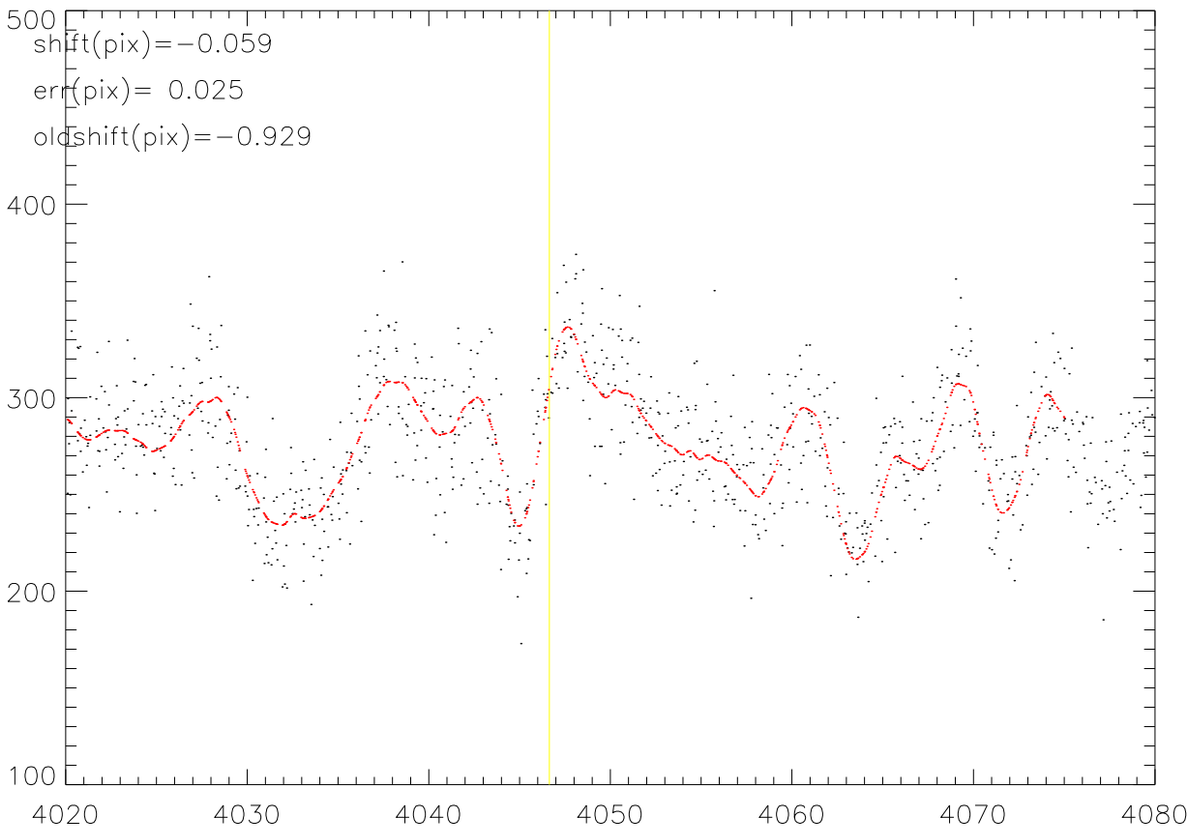

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b2-00050261.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 11.864
Max value = 16.059
Wed Mar 12 19:19:20 2008

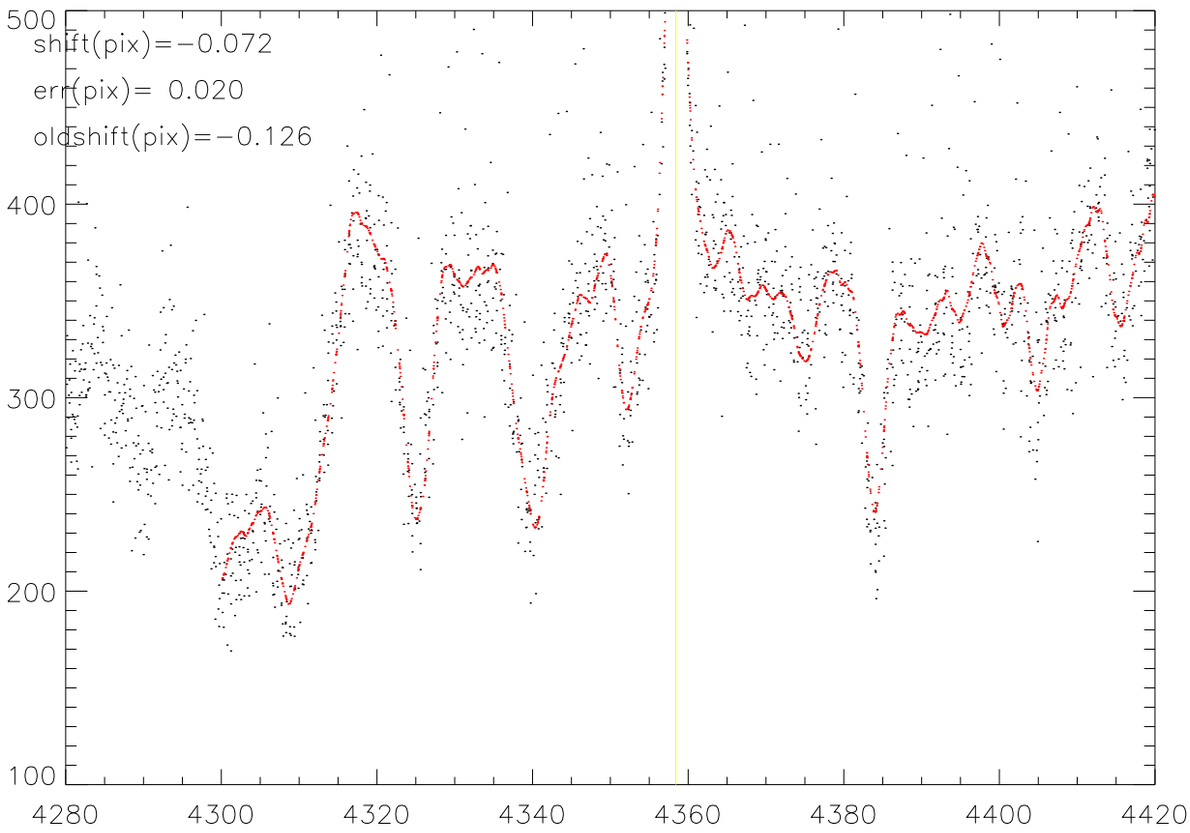

PLATE=2887 MJD=54520 Scattered Light on sdR-b2-00050261.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.18
8.64
14.09

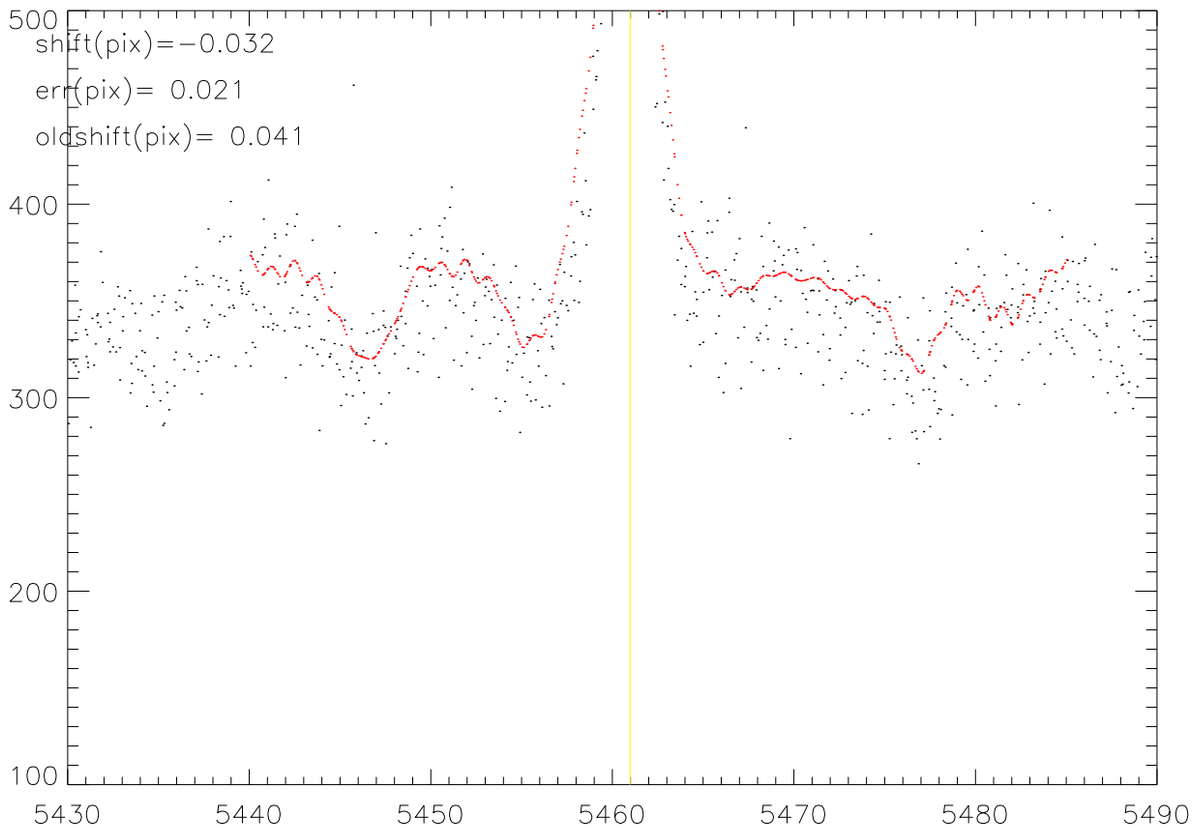

PLATE=2887 MJD=54520 Scattered Light on sdR-b2-00050261.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.425
Max value = 12.108
Wed Mar 12 19:21:50 2008

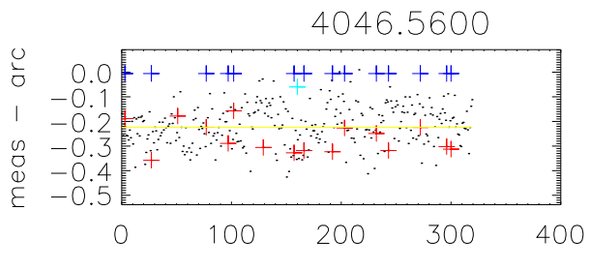

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-b2-00050261.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

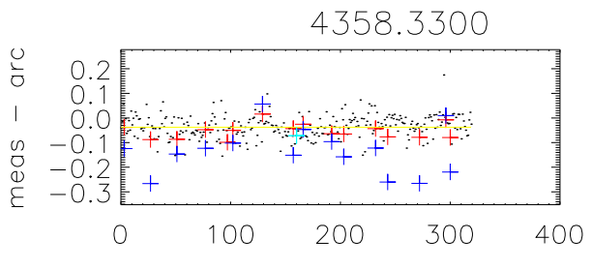

off: −0.93
sig: 0.183
4046.5600
4358.3300
off: −0.13
sig: 0.030
5460.9400
off: 0.04
sig: 0.023
5577.3390
off: 0.00
sig: 0.004
5889.9500
off: 0.16
sig: 0.017
5895.9240
off: 0.03
sig: 0.022

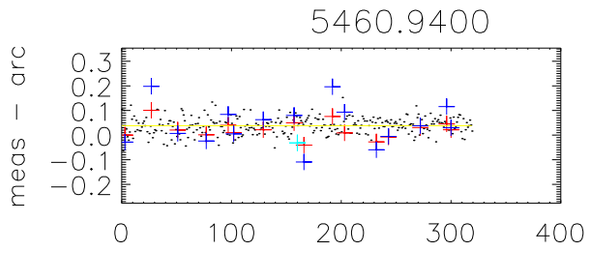

shift(pix)=−0.059
err(pix)= 0.025
oldshift(pix)=−0.929
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

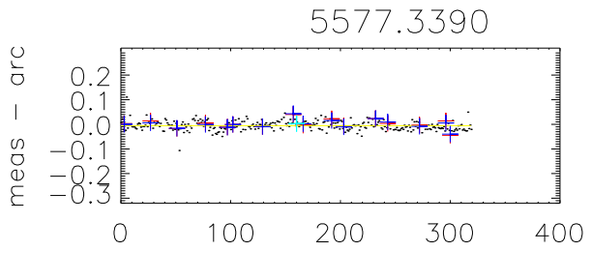

shift(pix)=−0.072
err(pix)= 0.020
oldshift(pix)=−0.126
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

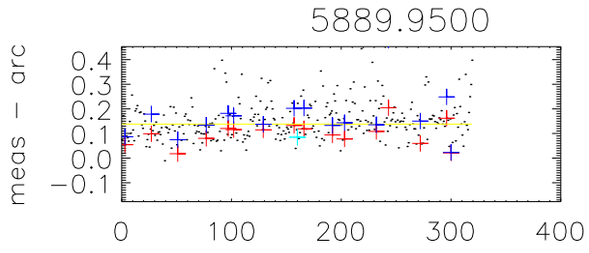

shift(pix)=−0.032
err(pix)= 0.021
oldshift(pix)= 0.041
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

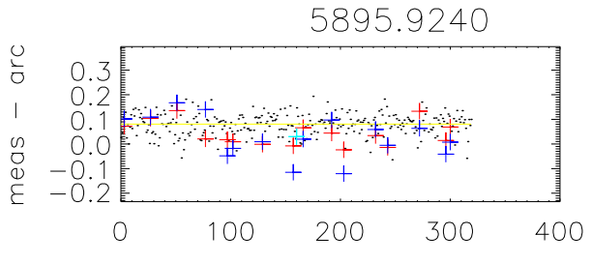

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

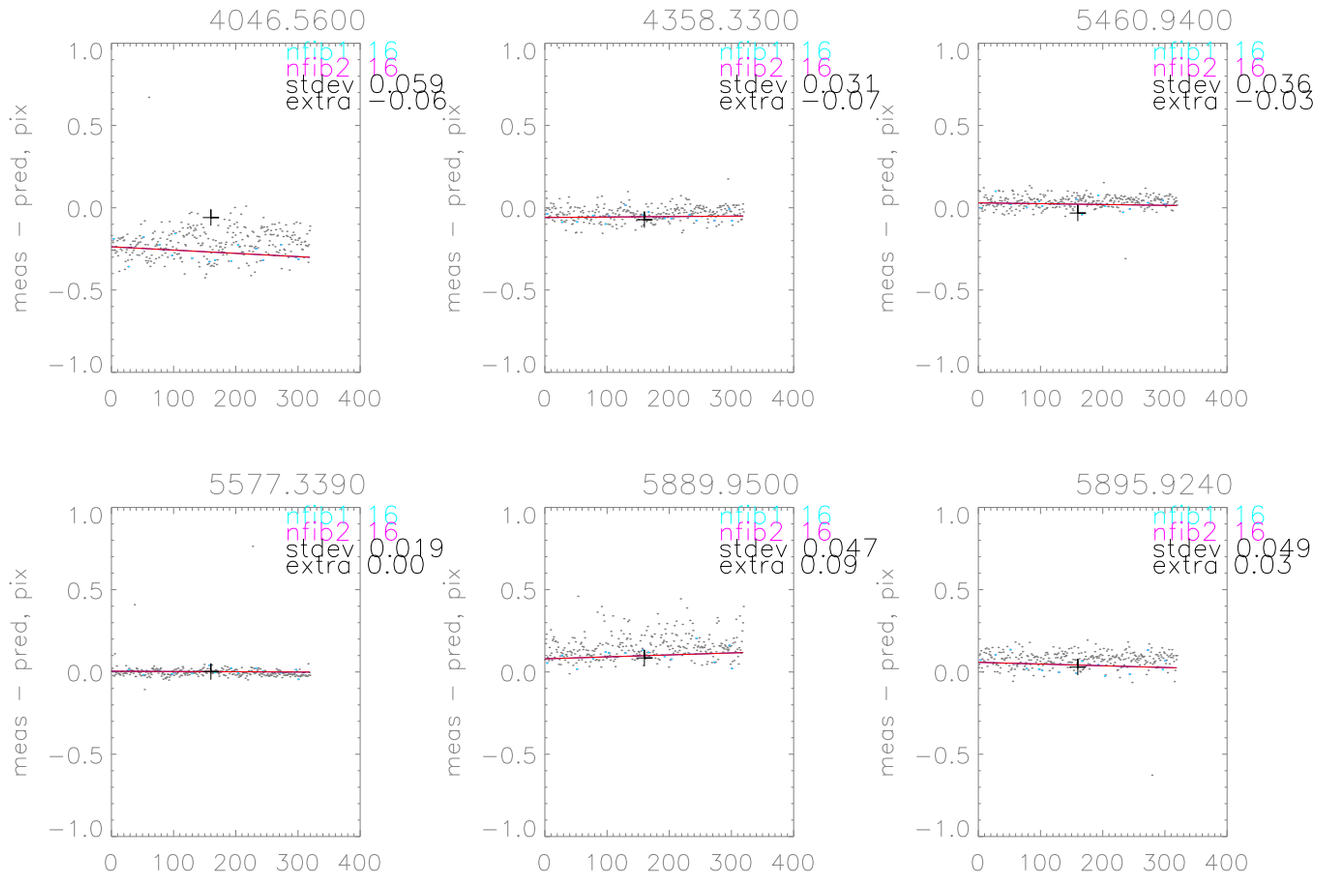

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

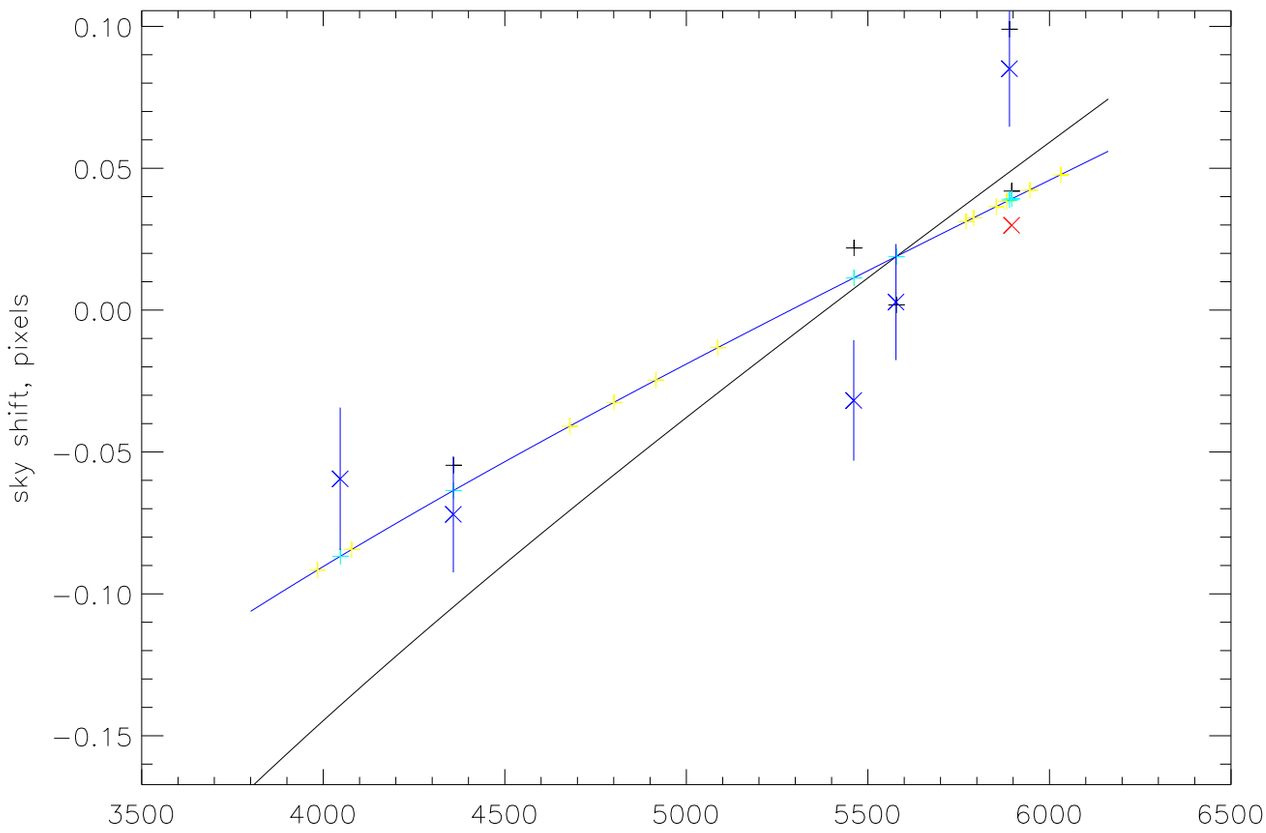

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

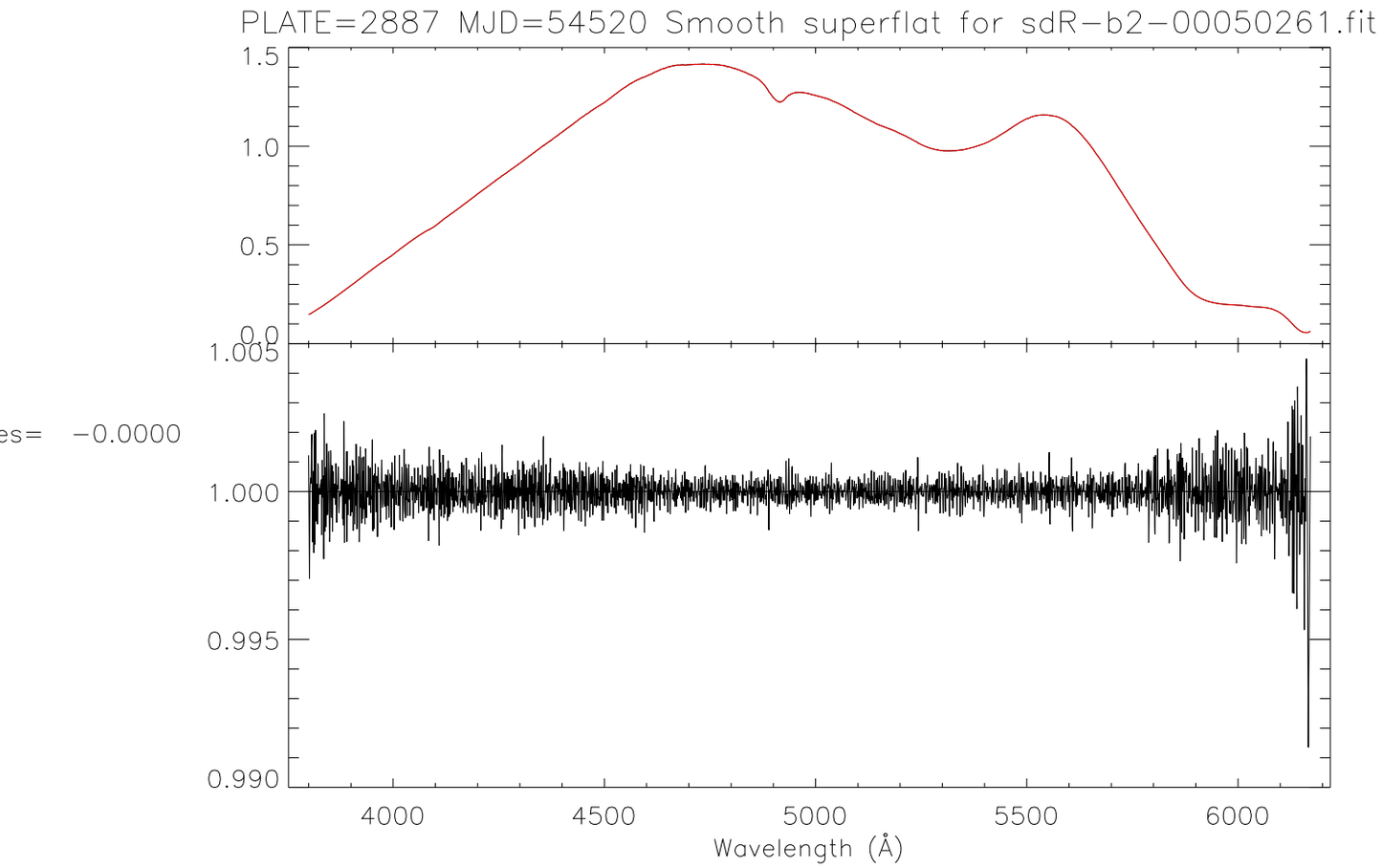

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

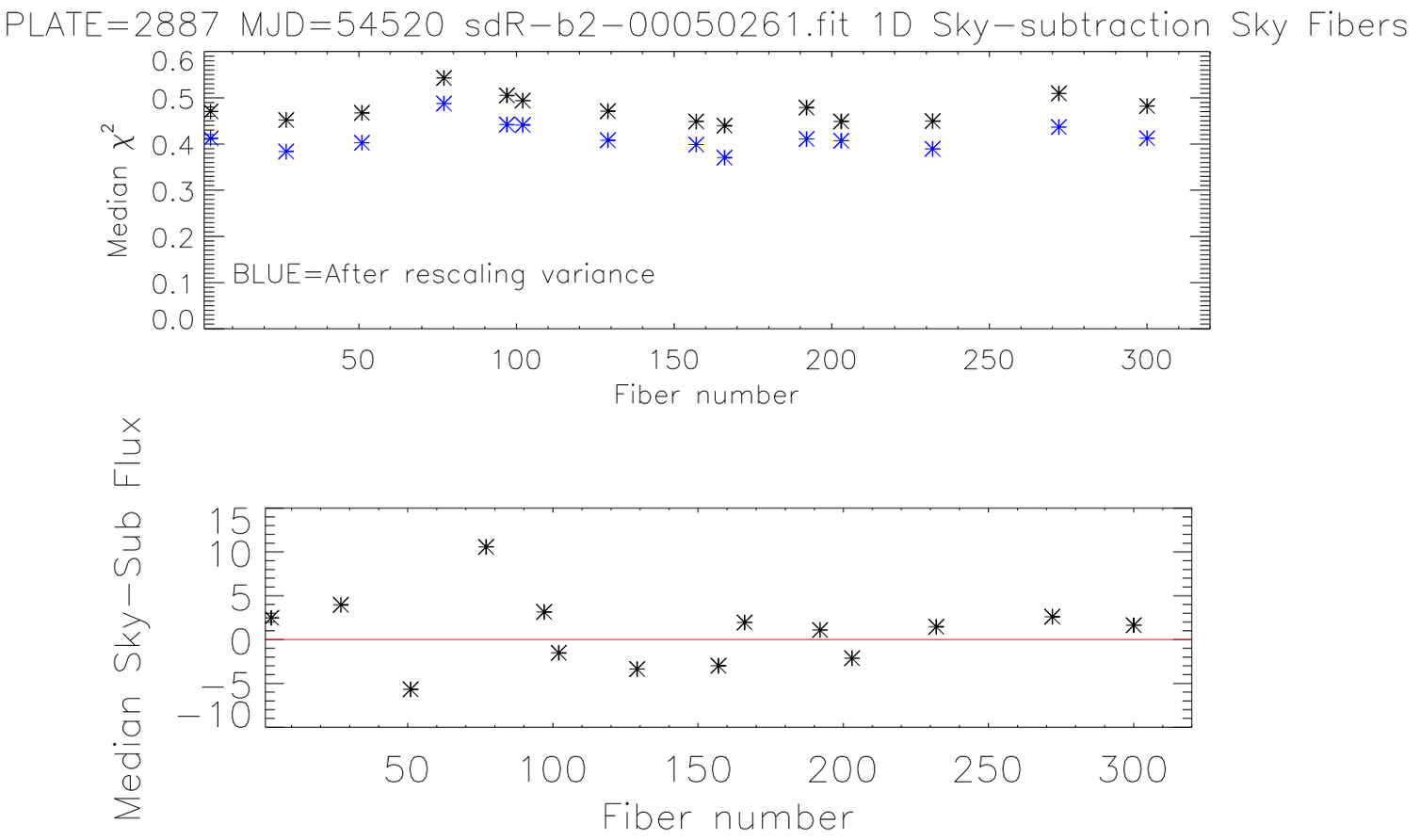

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

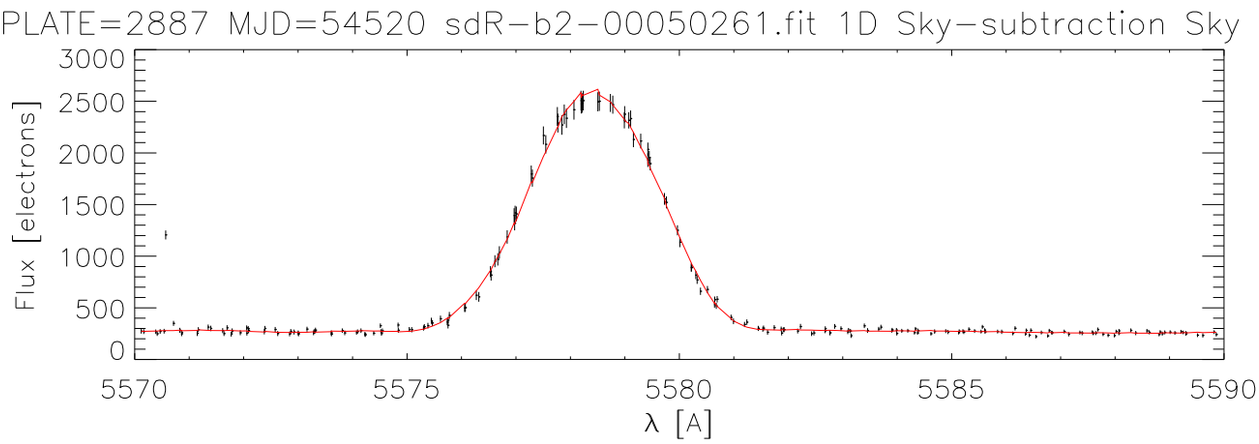

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

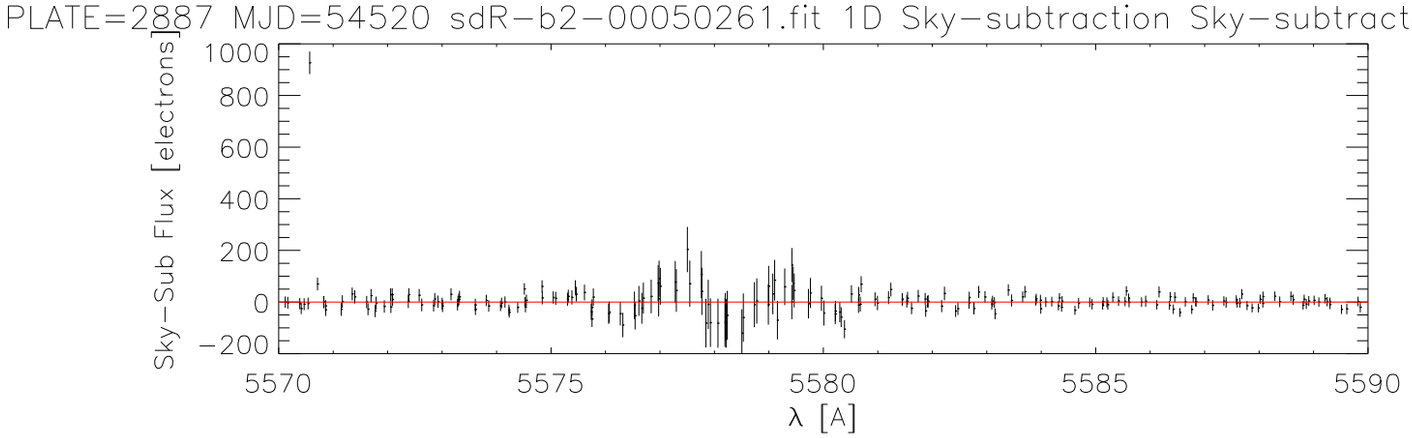

4046.5600
nfib1 16
nfib2 16
stdev 0.059
extra −0.06
4358.3300
nfib1 16
nfib2 16
stdev 0.031
extra −0.07
5460.9400
nfib1 16
nfib2 16
stdev 0.036
extra −0.03
5577.3390
nfib1 16
nfib2 16
stdev 0.019
extra 0.00
5889.9500
nfib1 16
nfib2 16
stdev 0.047
extra 0.09
5895.9240
nfib1 16
nfib2 16
stdev 0.049
extra 0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

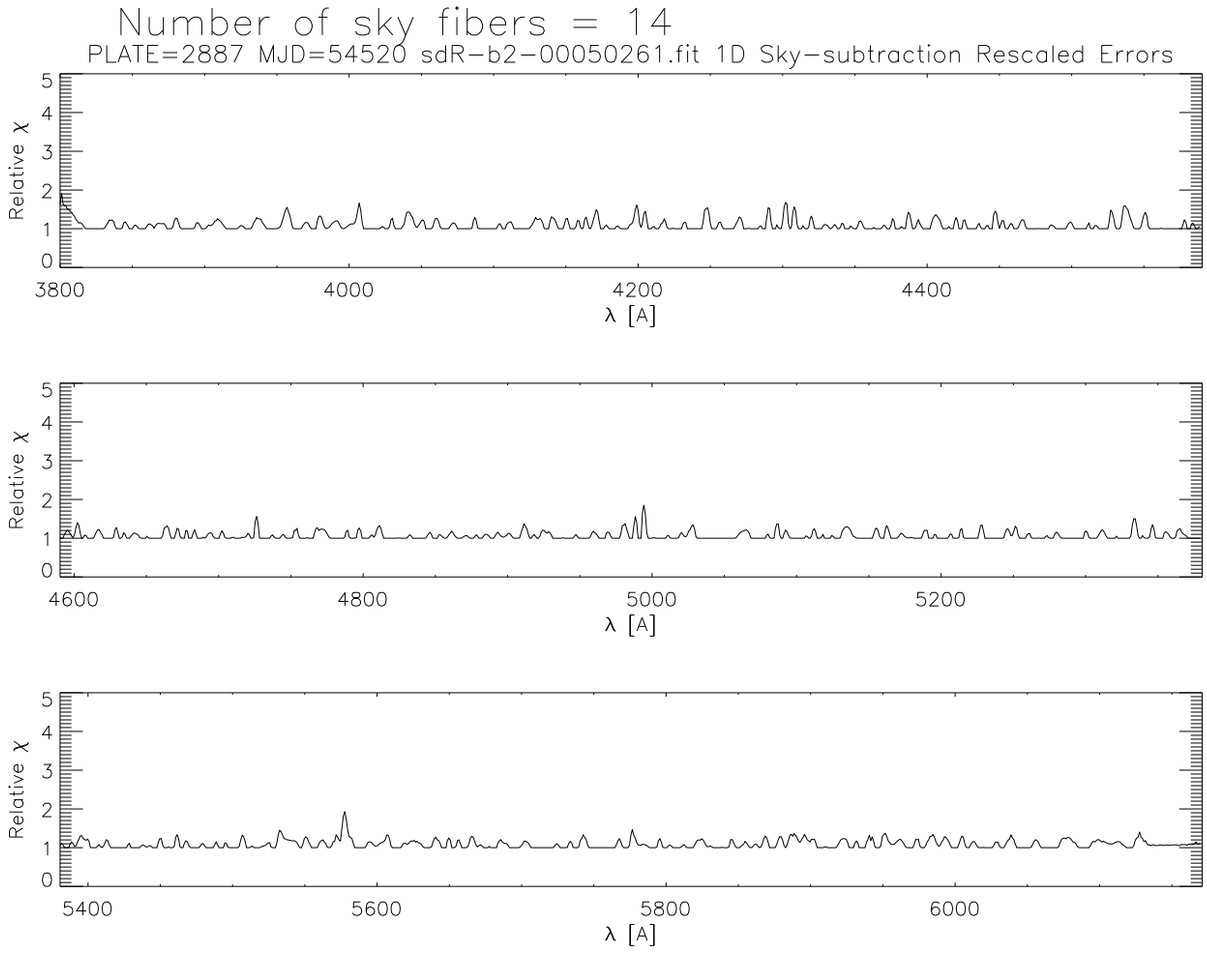

0.10
0.05
0.00
−0.05
−0.10
−0.15
sky shift, pixels
3500
4000
4500
5000
5500
6000
6500

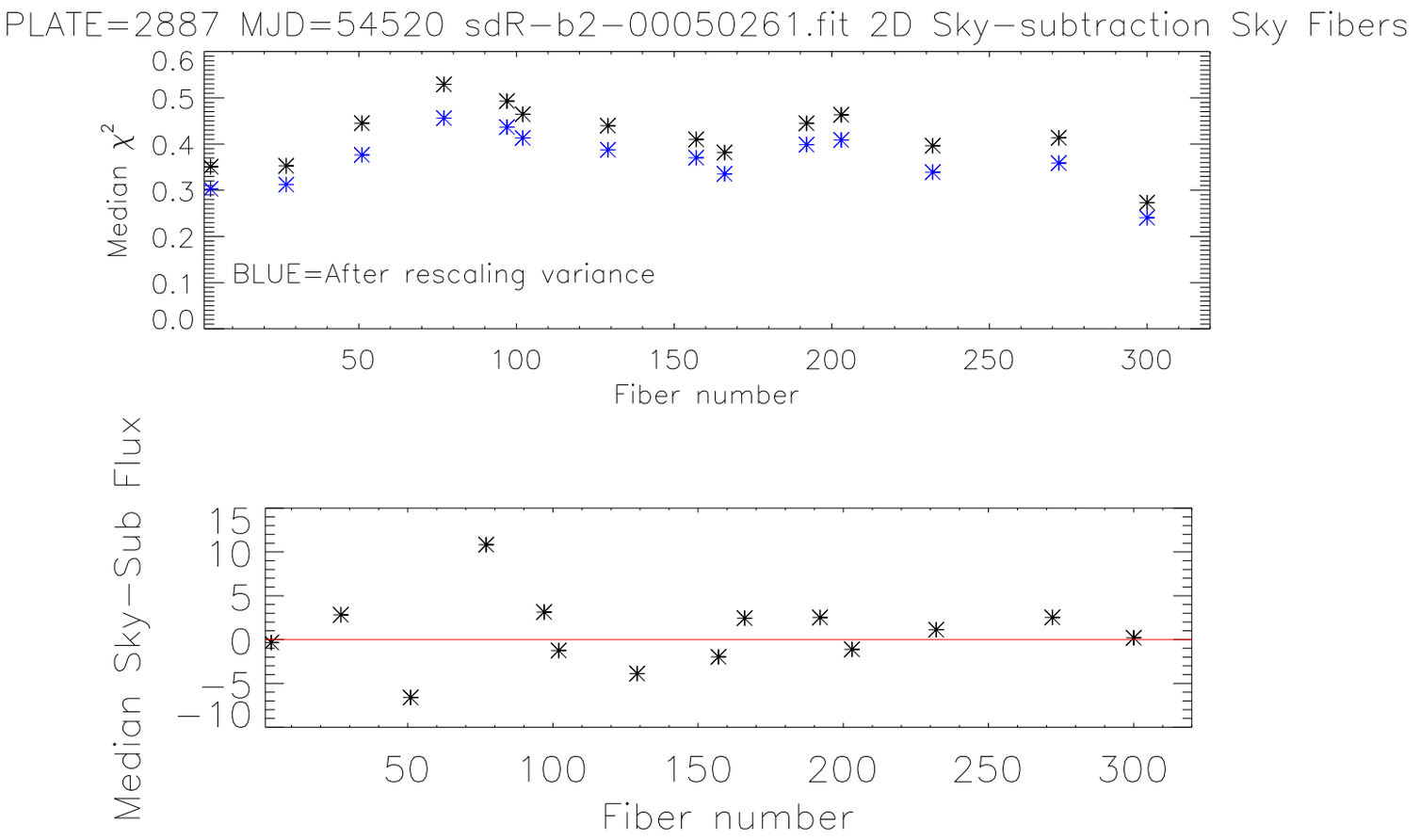

PLATE=2887 MJD=54520 Smooth superflat for sdR-b2-00050261.fit
1.5
1.0
0.5
0.0
1.005
1.000
0.995
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

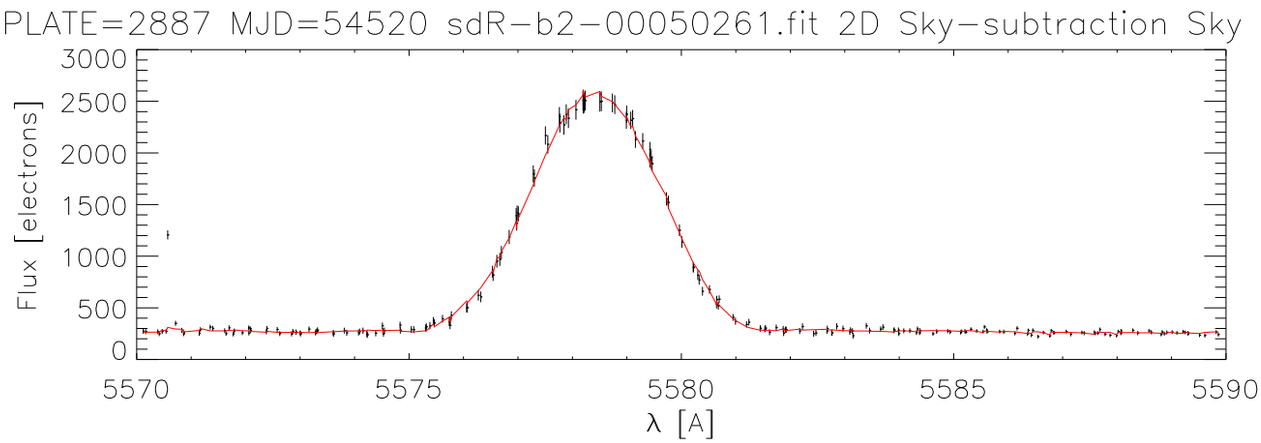

PLATE=2887 MJD=54520 sdR-b2-00050261.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

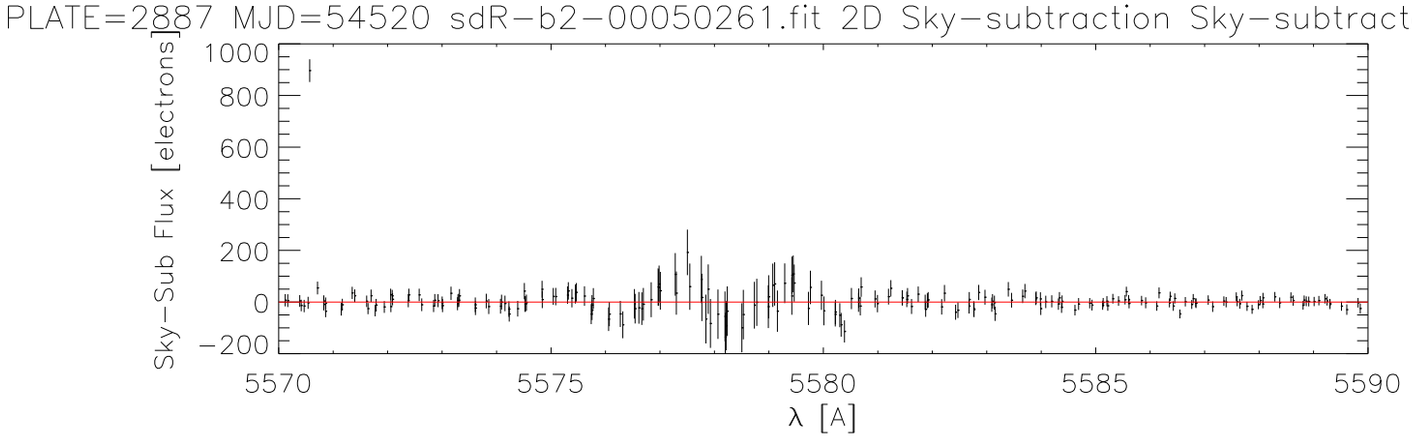

PLATE=2887 MJD=54520 sdR-b2-00050261.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

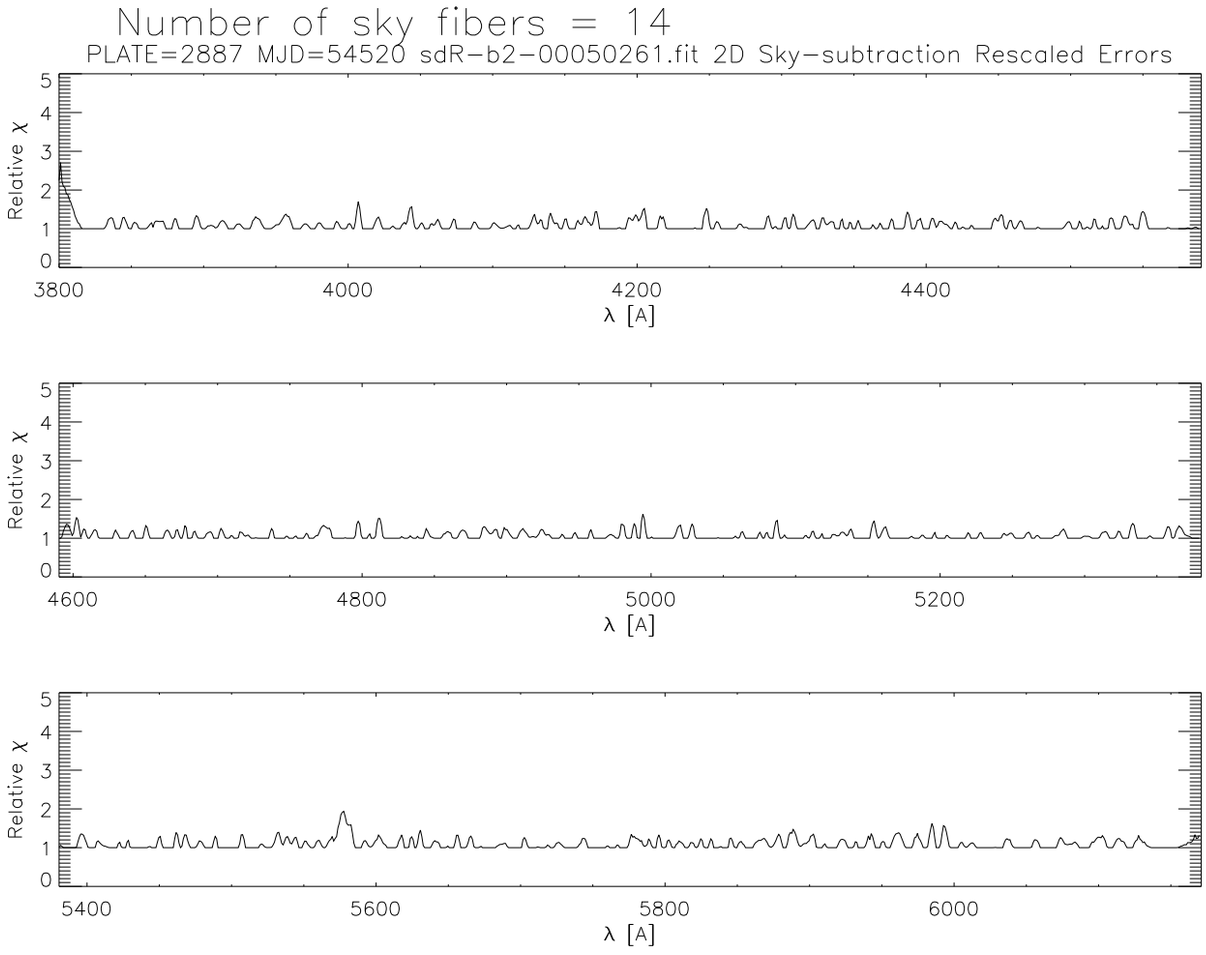

PLATE=2887 MJD=54520 sdR-b2-00050261.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

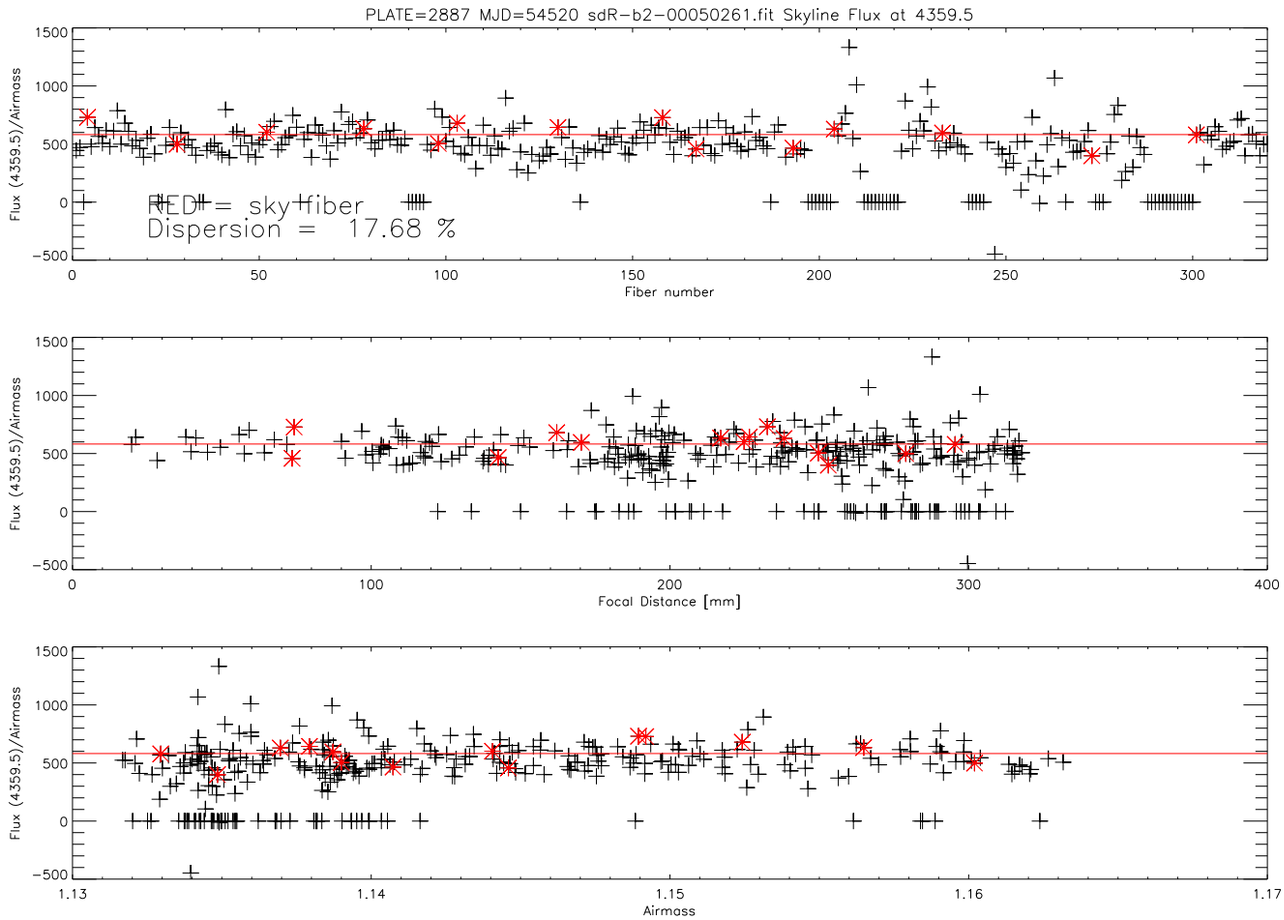

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-b2-00050261.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

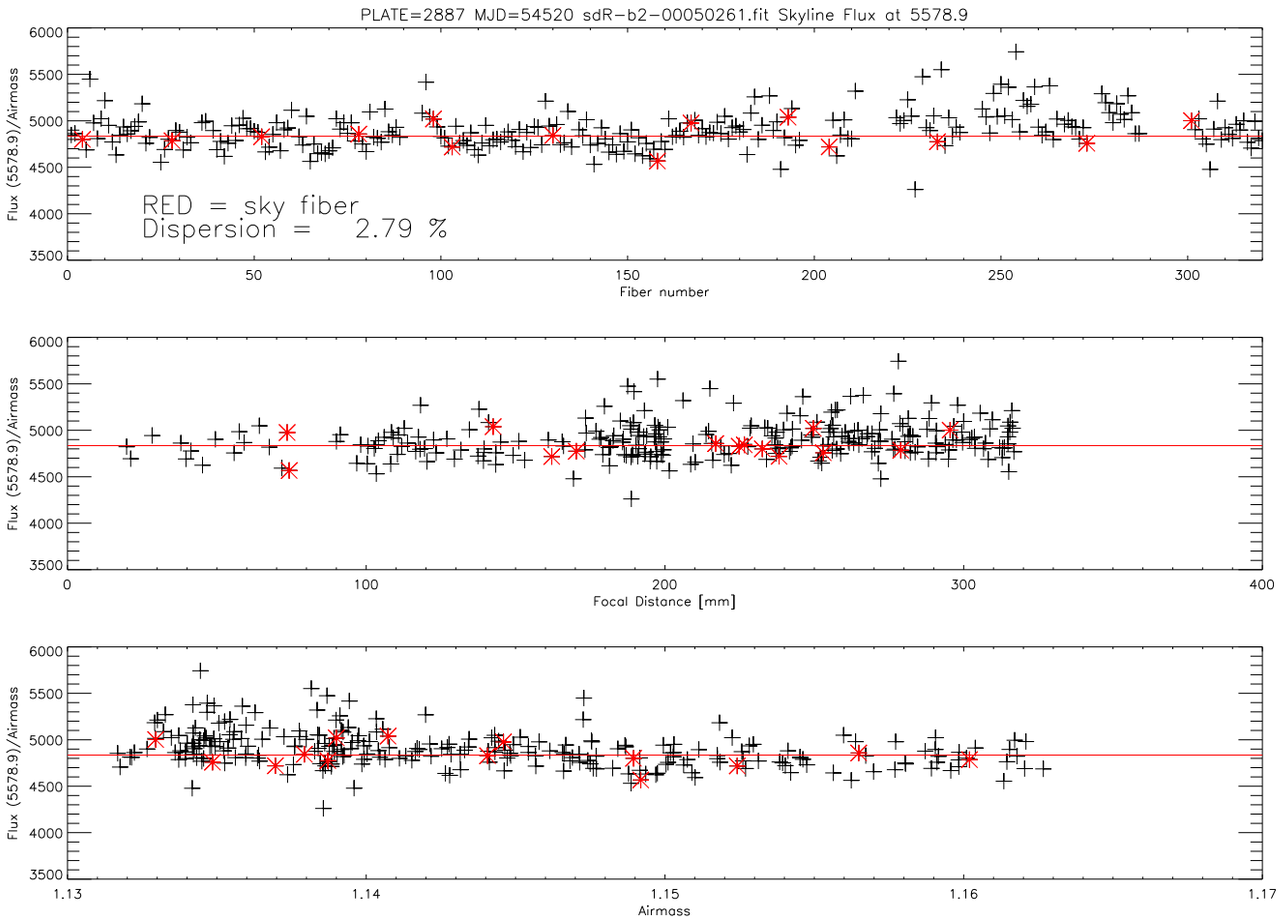

PLATE=2887 MJD=54520 sdR-b2-00050261.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

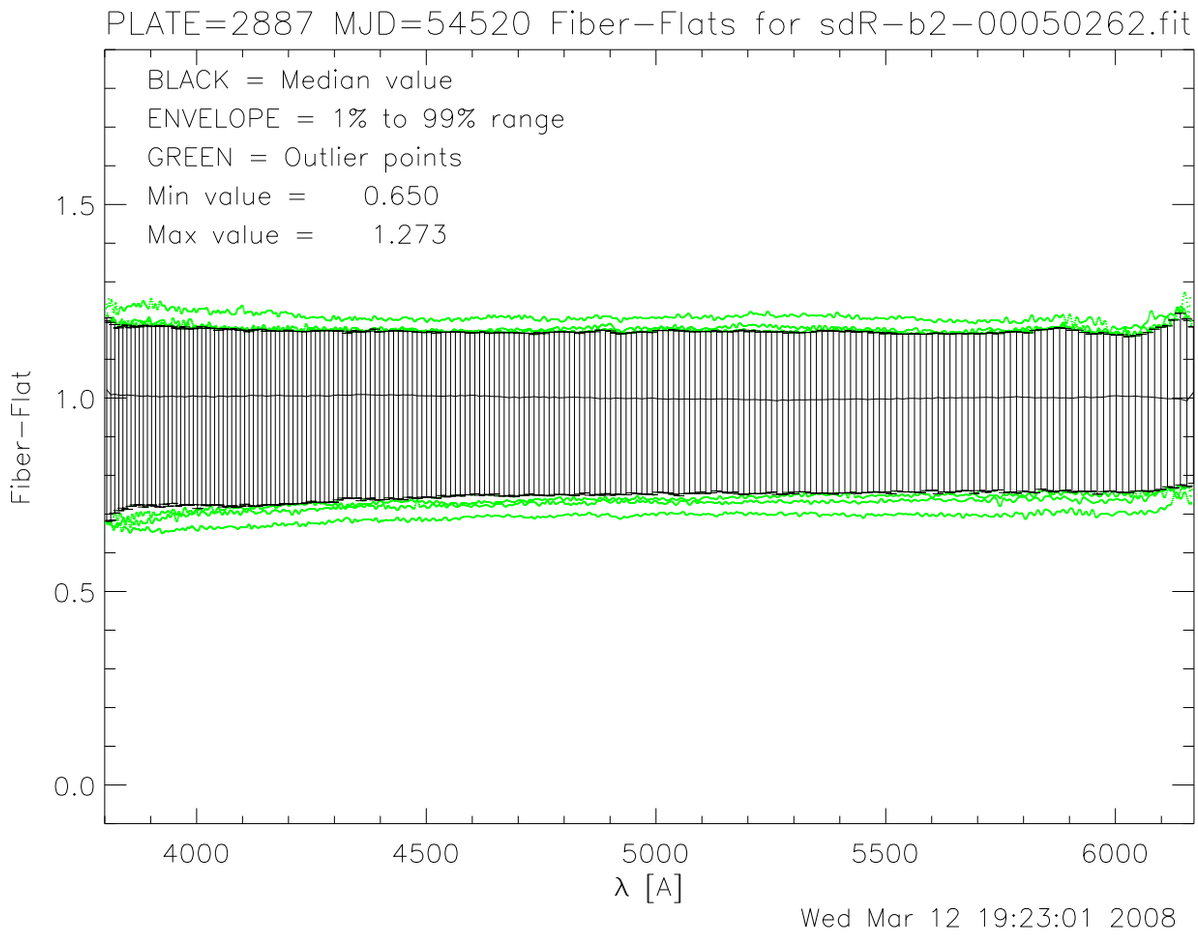

PLATE=2887 MJD=54520 sdR-b2-00050261.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
5570
5575
5580
5585
5590
λ [A]

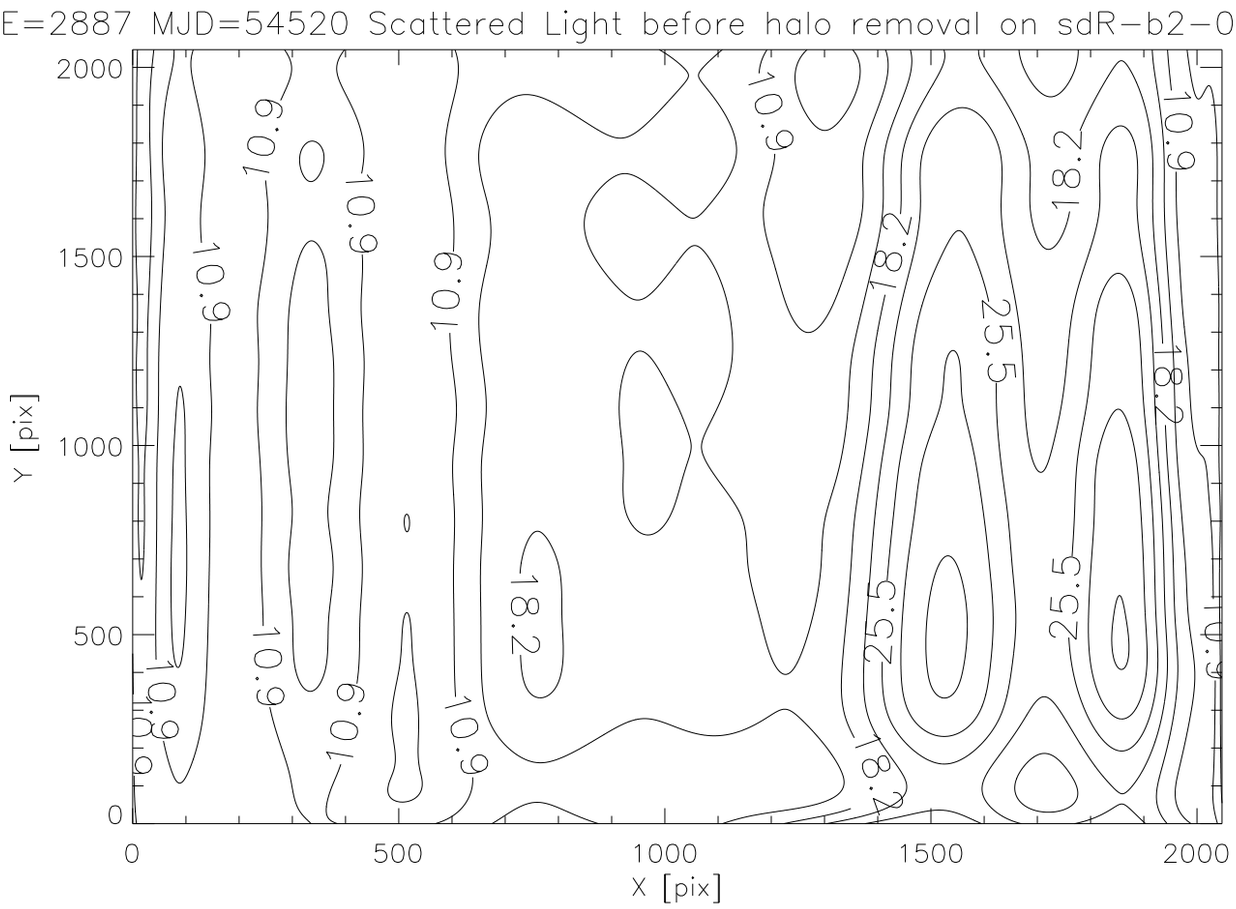

PLATE=2887 MJD=54520 sdR-b2-00050261.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
1000
800
600
400
200
0
-200
5570
5575
5580
5585
5590
λ [A]

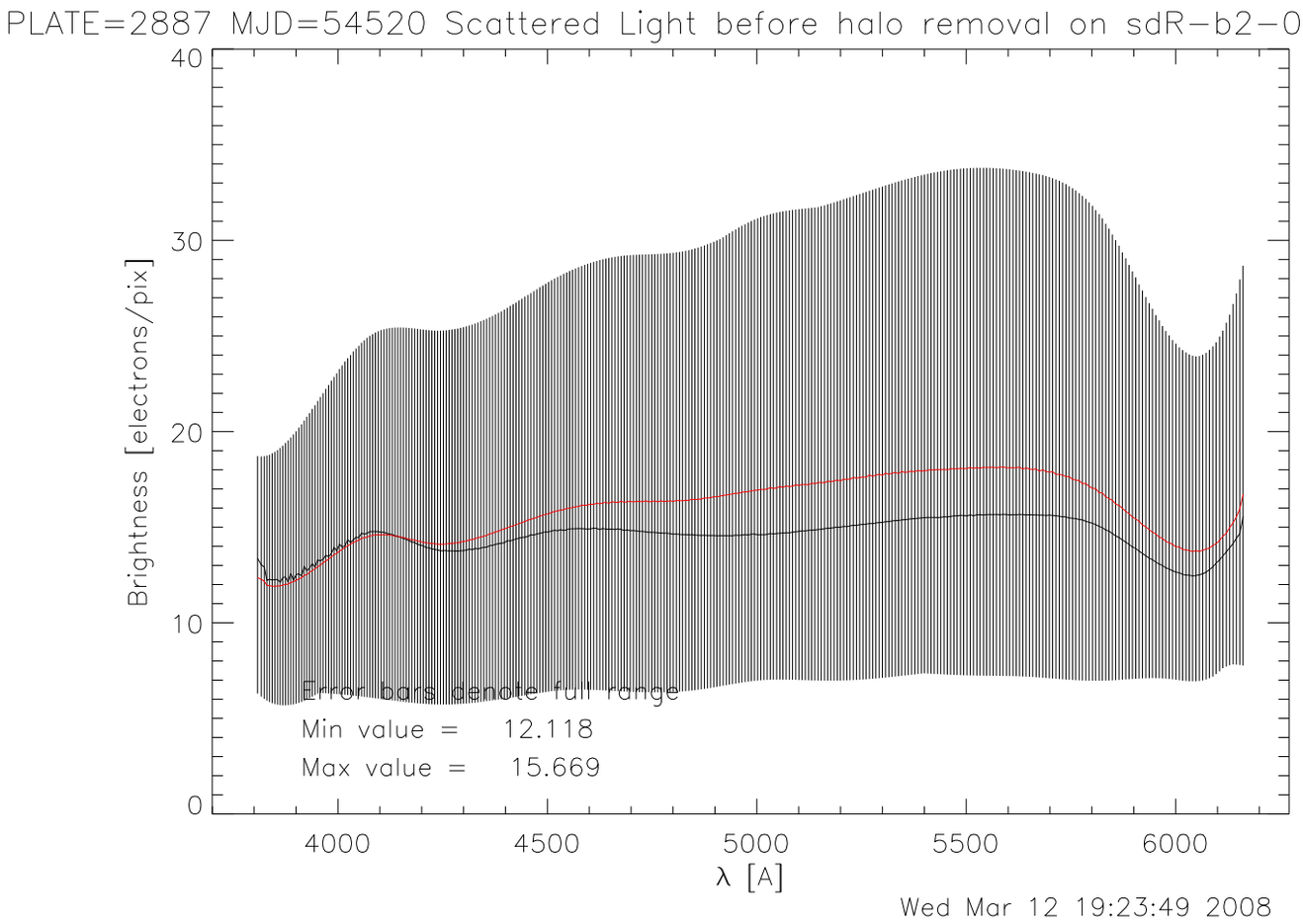

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-b2-00050261.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

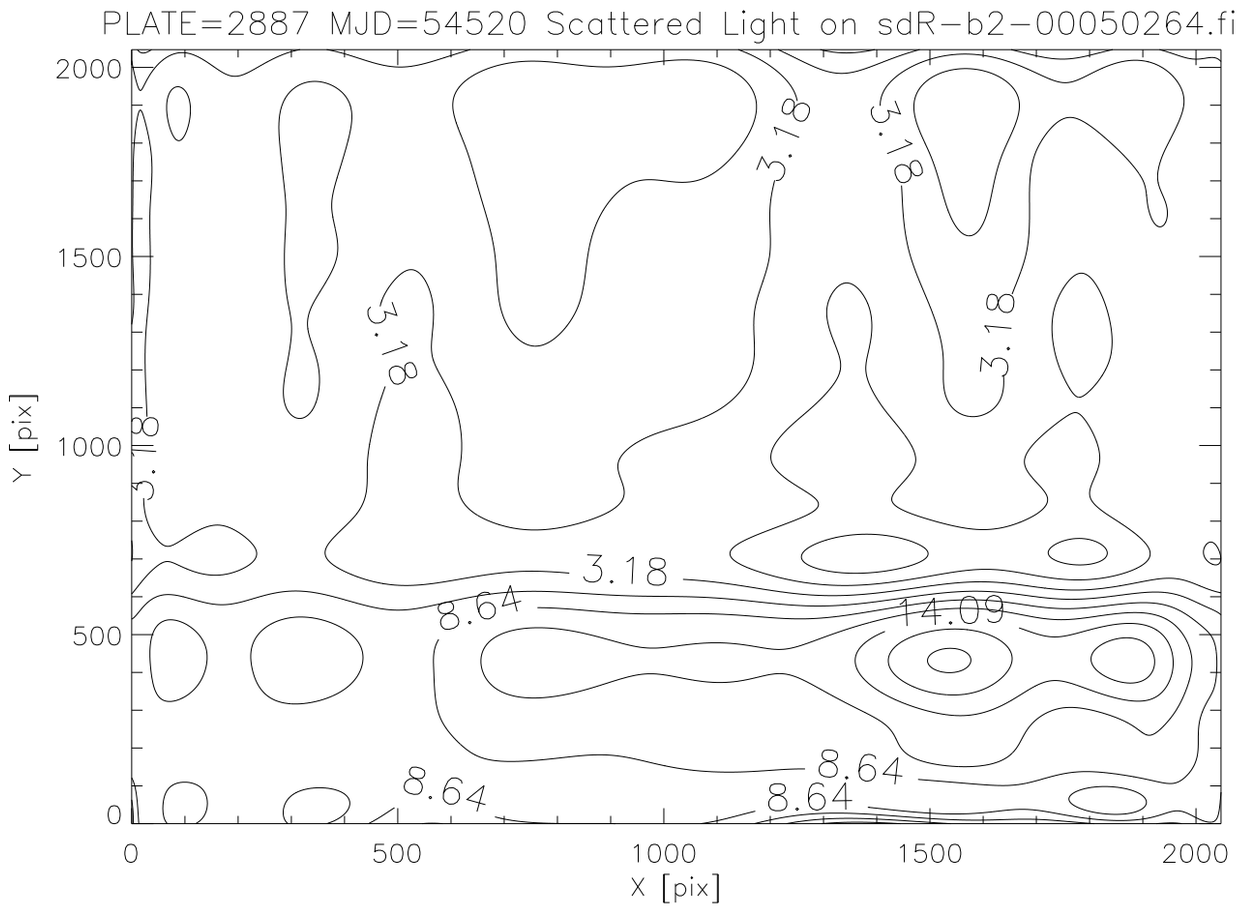

PLATE=2887 MJD=54520 sdR-b2-00050261.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED= sky fiber
Dispersion = 17.68 %
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

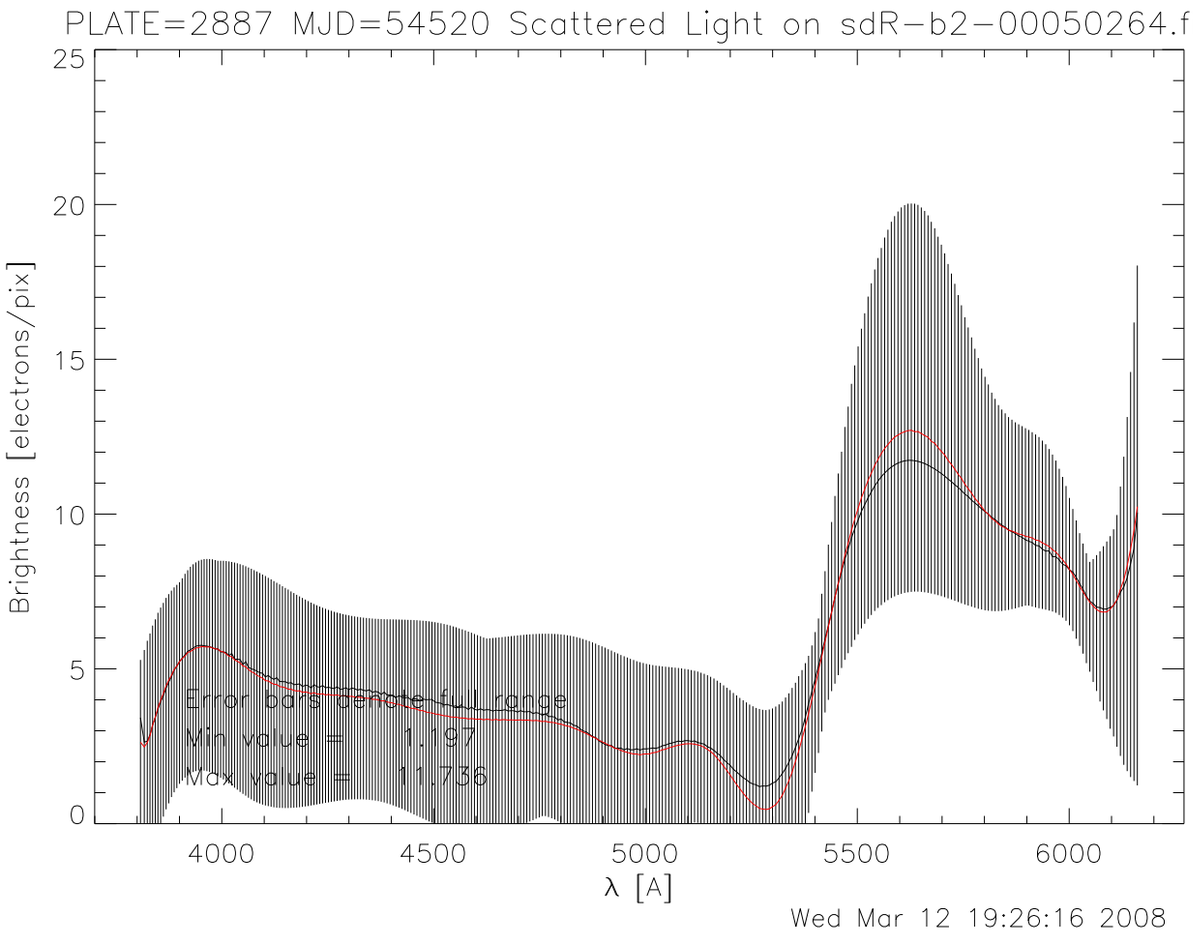

PLATE=2887 MJD=54520 sdR-b2-00050261.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.79 %
Fiber number
Focal Distance [mm]
Airmass

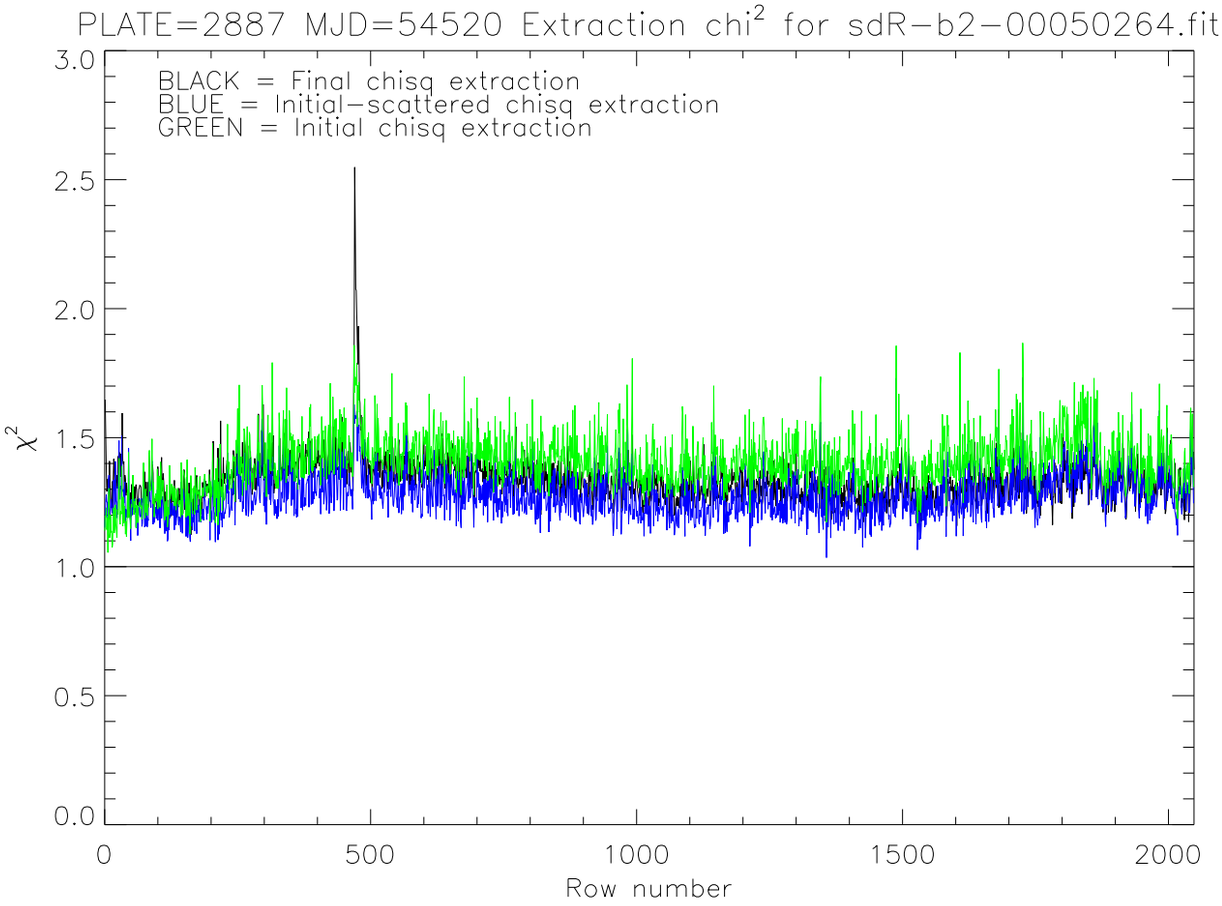

PLATE=2887 MJD=54520 Fiber-Flats for sdR-b2-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.650
Max value = 1.273
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:23:01 2008

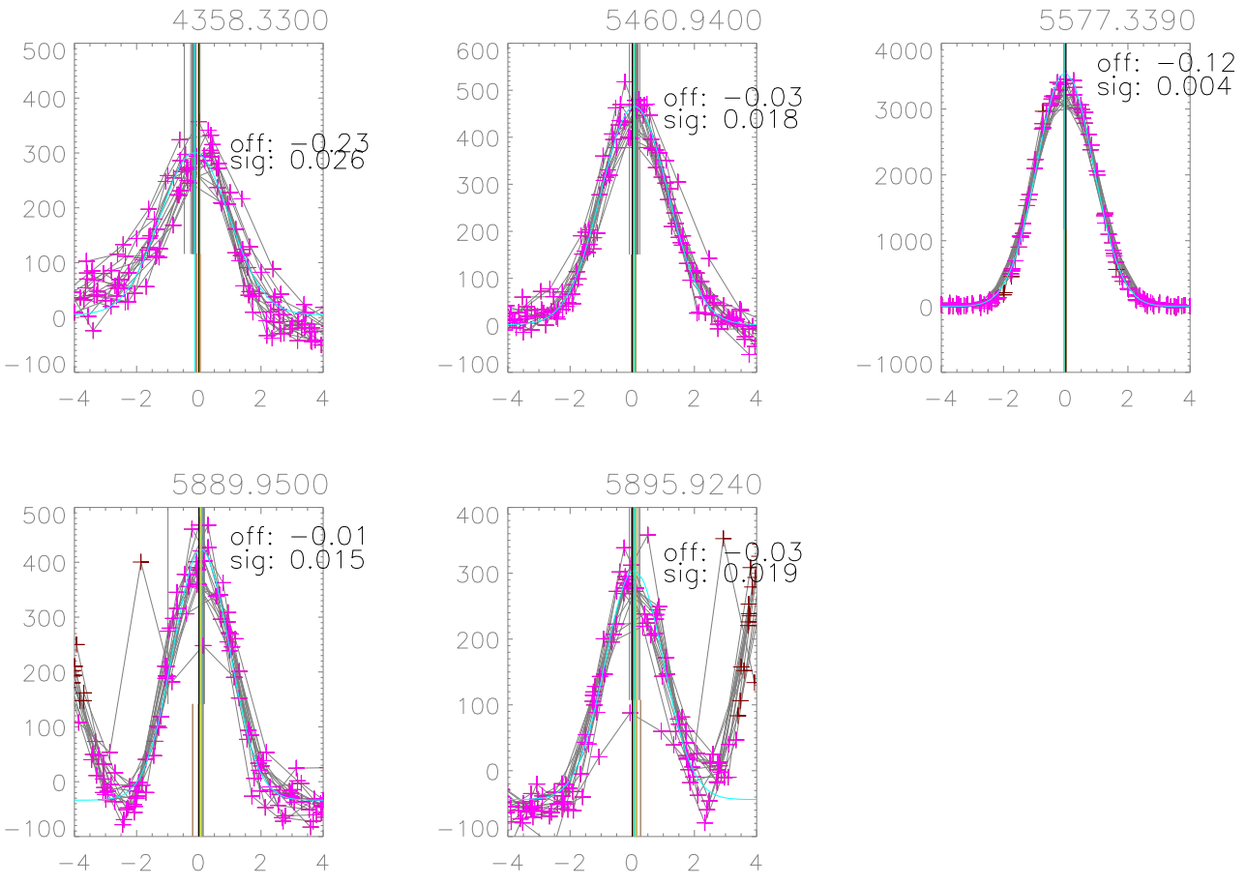

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b2-00050264.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.0
10.9
18.2
25.5

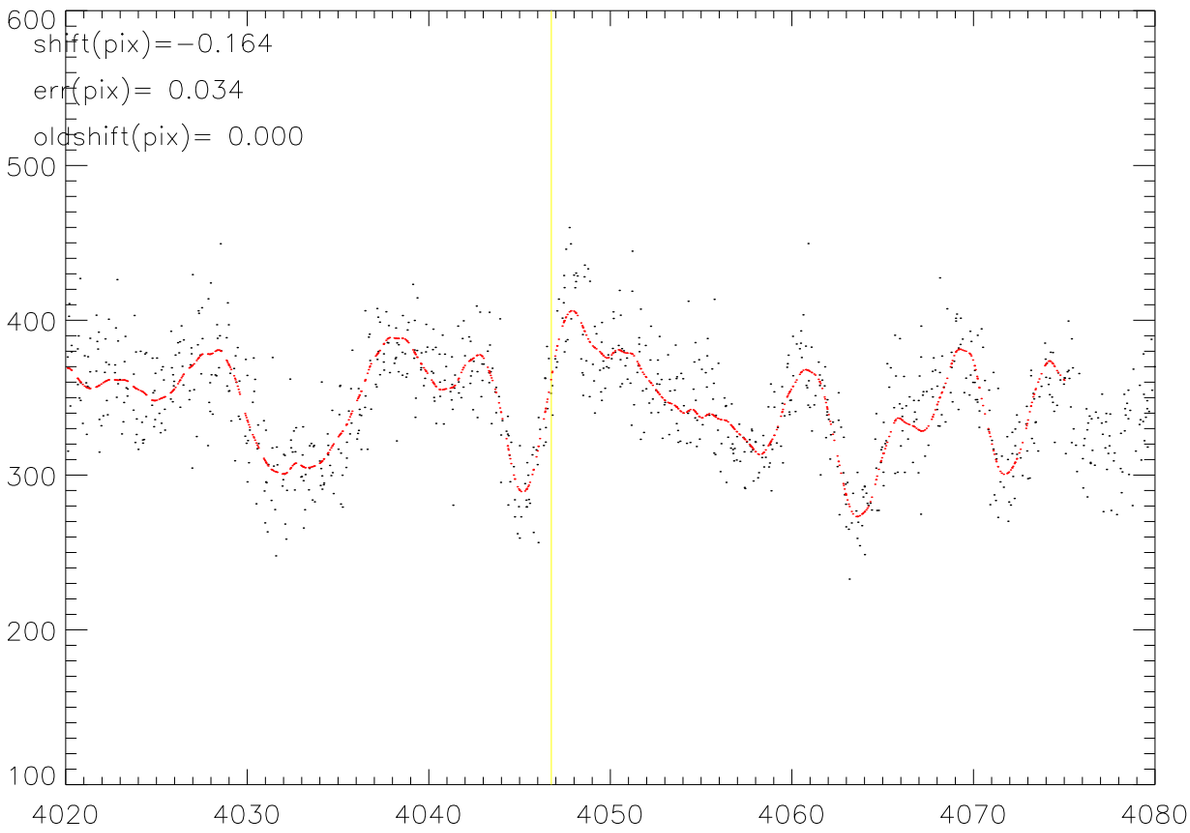

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b2-00050264.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 12.118
Max value = 15.669
Wed Mar 12 19:23:49 2008

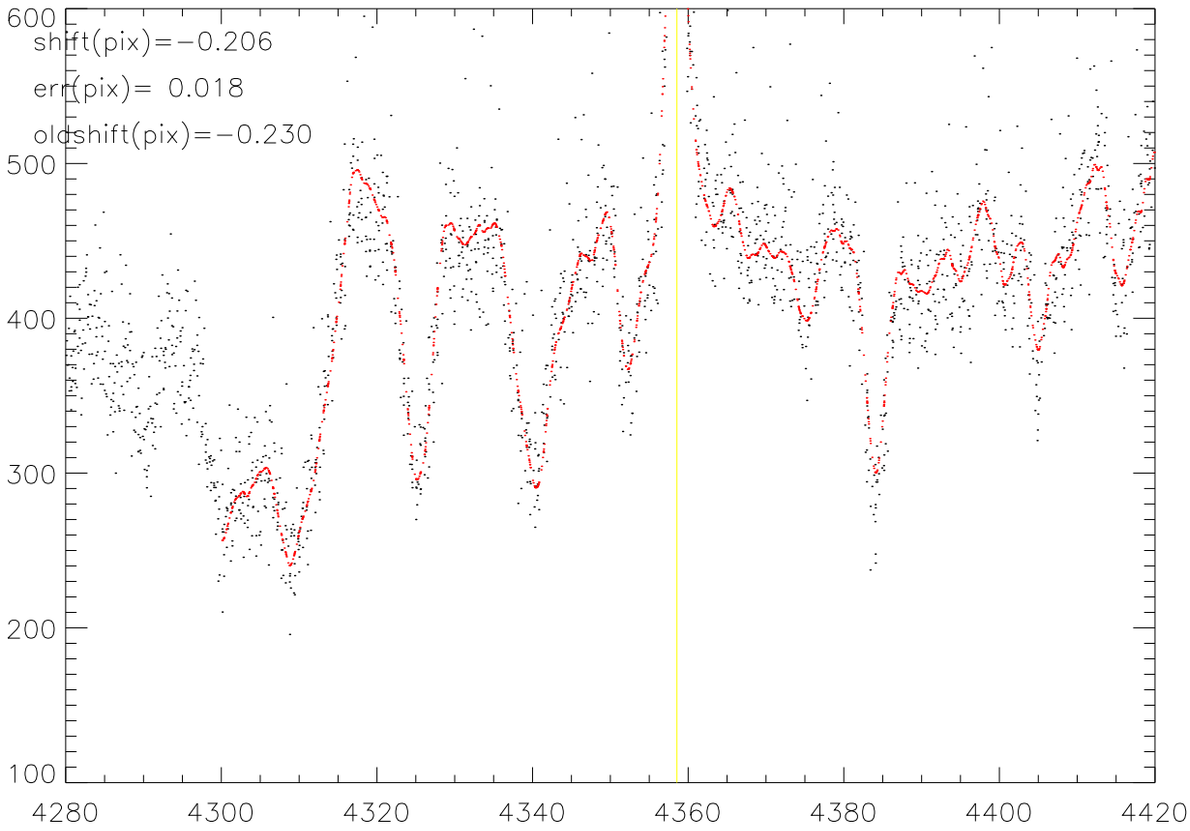

PLATE=2887 MJD=54520 Scattered Light on sdR-b2-00050264.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
3.18
8.64
14.09

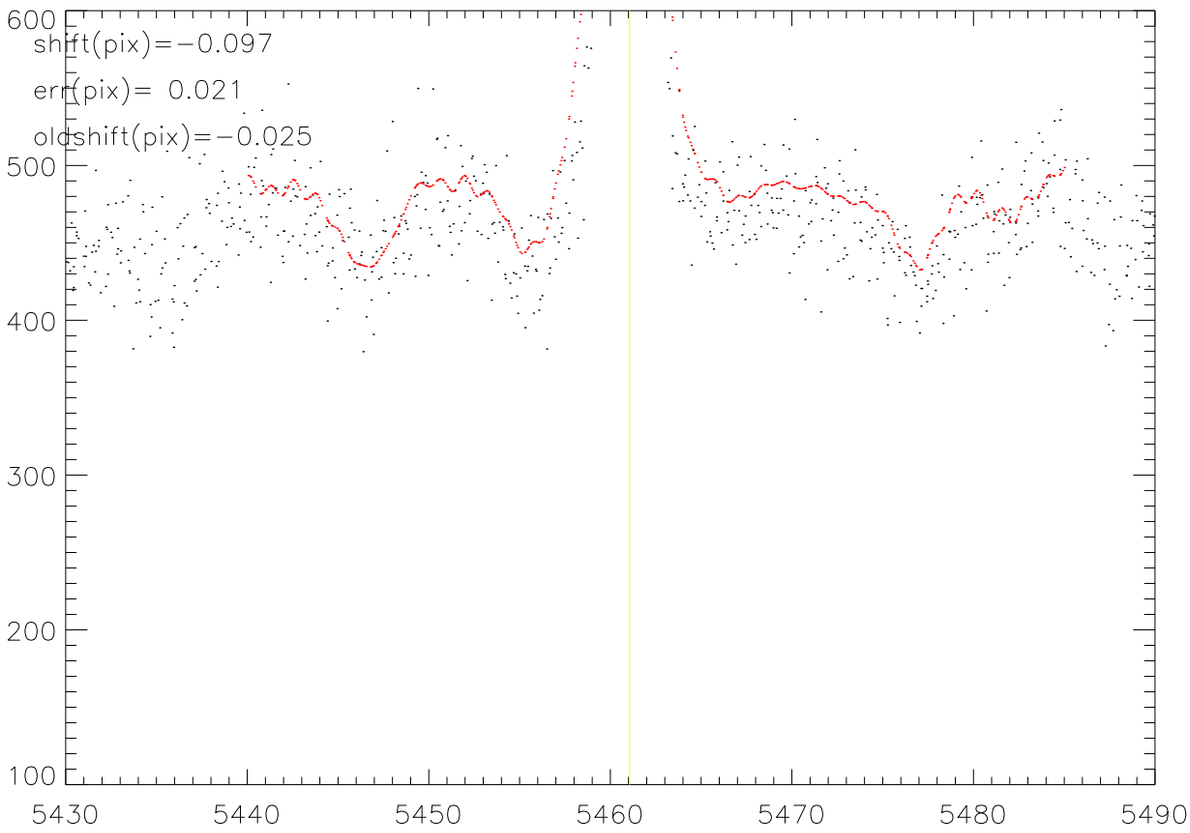

PLATE=2887 MJD=54520 Scattered Light on sdR-b2-00050264.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.167
Max value = 11.736
Wed Mar 12 19:26:16 2008

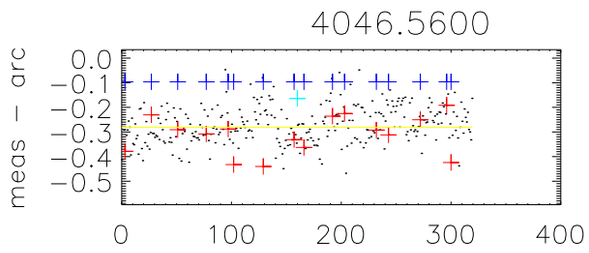

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-b2-00050264.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

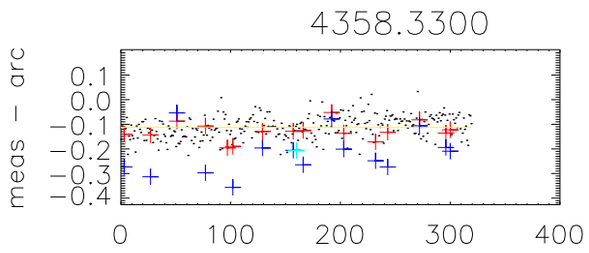

4358.3300
off: −0.23
sig: 0.026
5460.9400
off: −0.03
sig: 0.018
5577.3390
off: −0.12
sig: 0.004
5889.9500
off: −0.01
sig: 0.015
5895.9240
off: −0.03
sig: 0.019

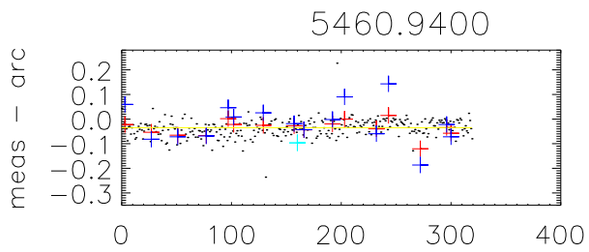

shift(pix)=−0.164
err(pix)= 0.034
oldshift(pix)= 0.000
600
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

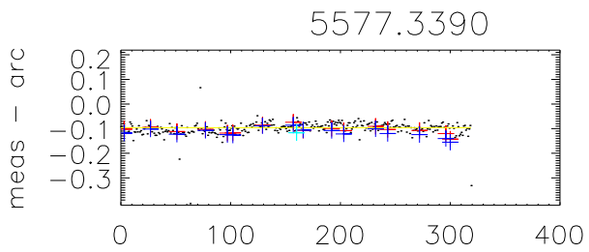

shift(pix)=−0.206
err(pix)= 0.018
oldshift(pix)=−0.230
600
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

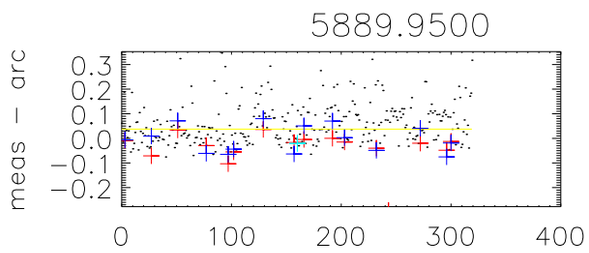

shift(pix)=−0.097
err(pix)= 0.021
oldshift(pix)=−0.025
600
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

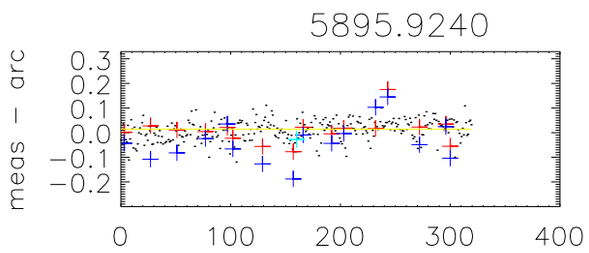

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

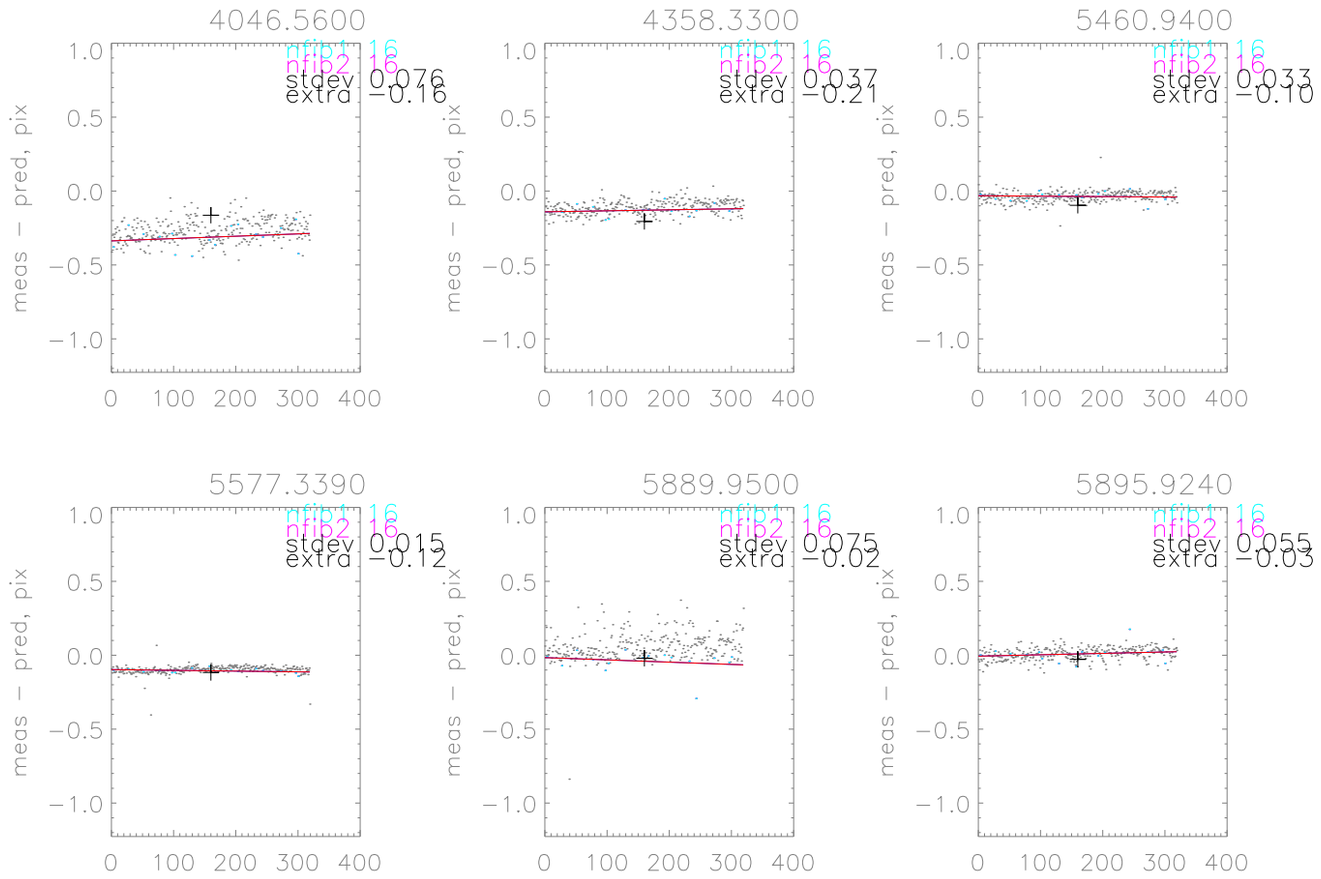

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

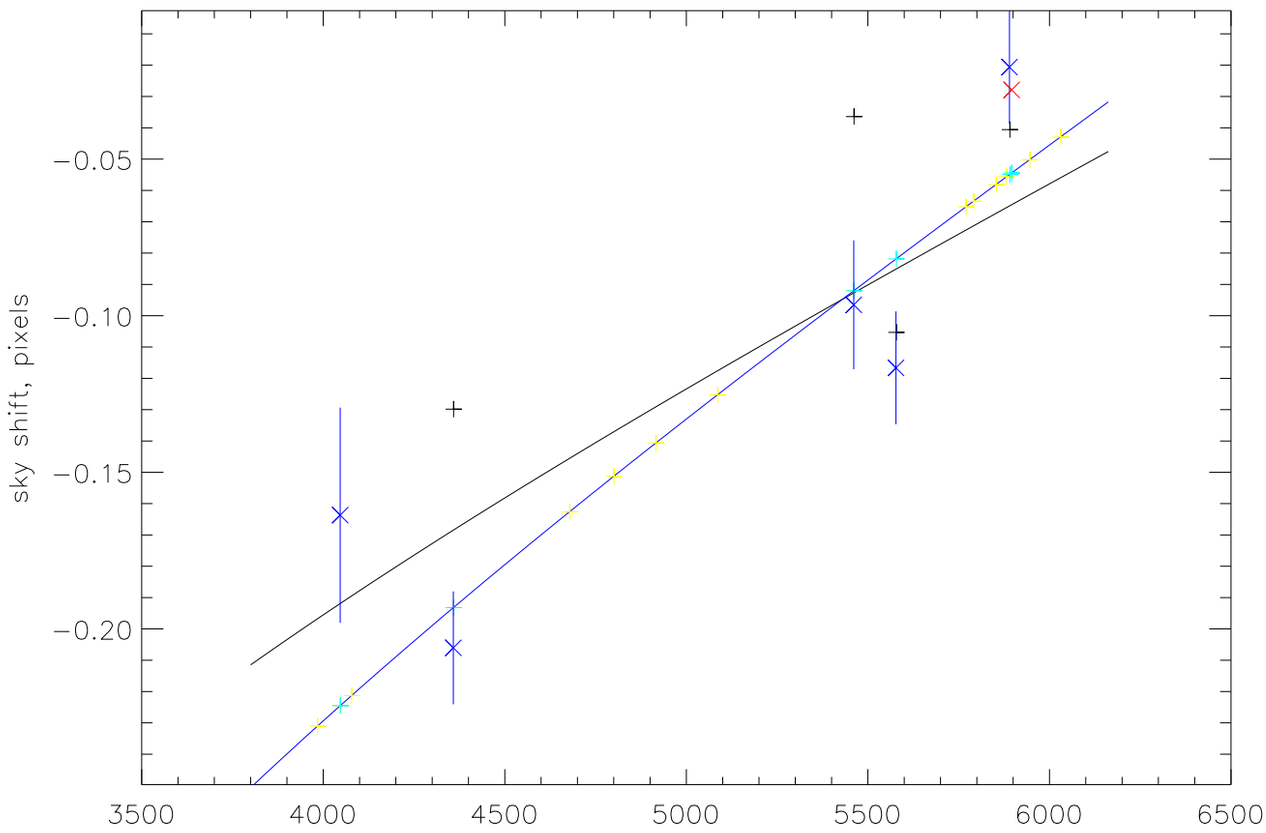

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

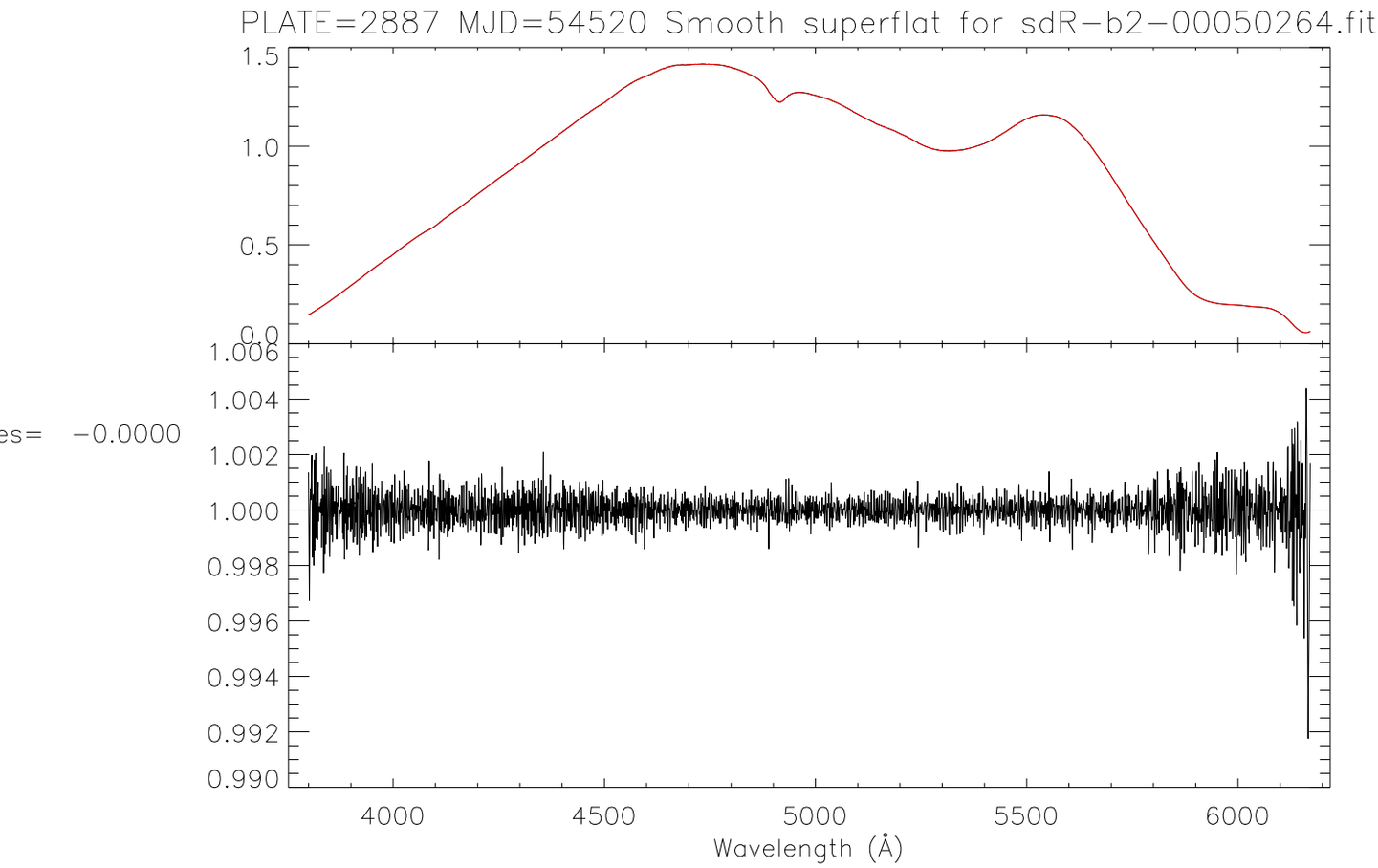

5577.3390
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

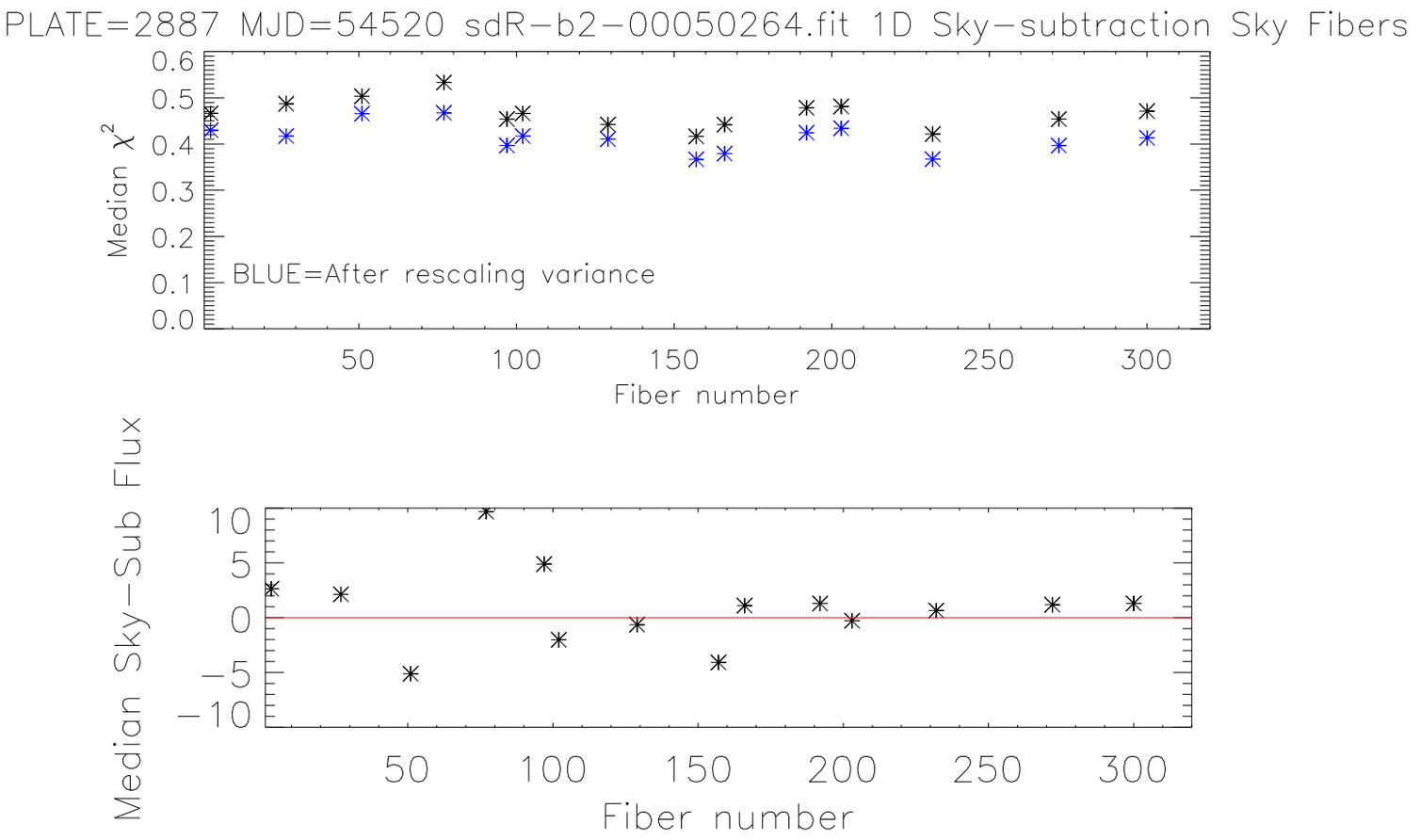

5889.9500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

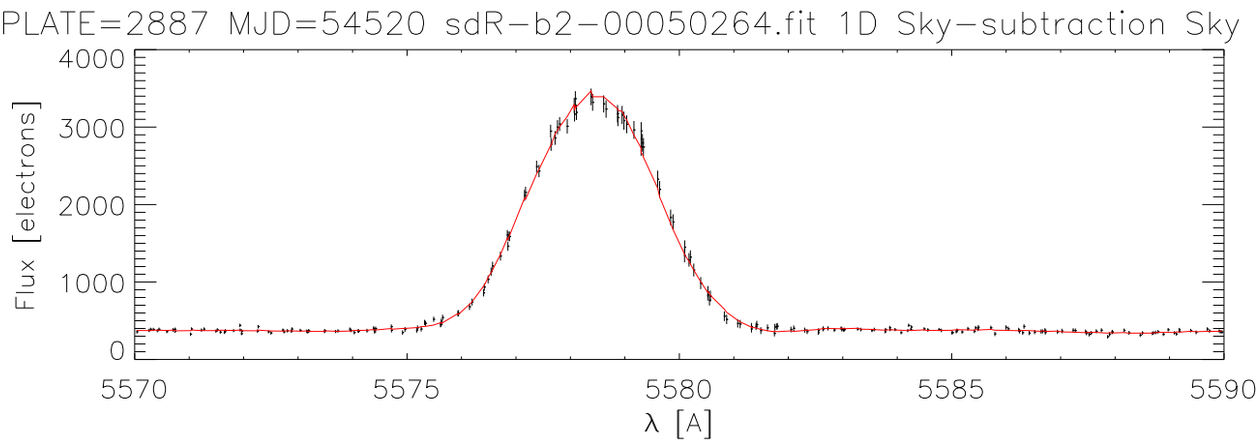

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

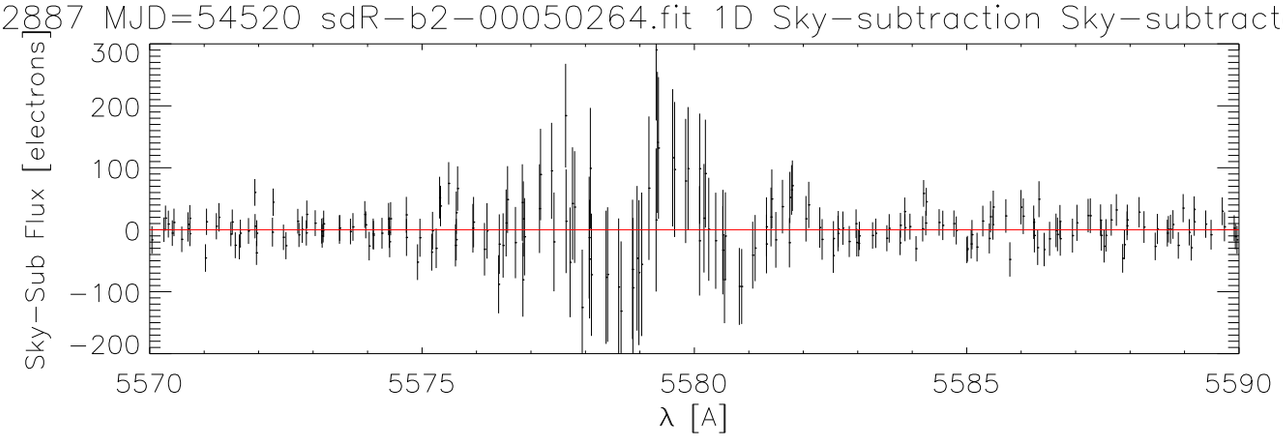

4046.5600
nfib1 16
nfib2 16
stdev 0.076
extra −0.16
4358.3300
nfib1 16
nfib2 16
stdev 0.037
extra −0.21
5460.9400
nfib1 16
nfib2 16
stdev 0.033
extra −0.10
5577.3390
nfib1 16
nfib2 16
stdev 0.015
extra −0.12
5889.9500
nfib1 16
nfib2 16
stdev 0.075
extra −0.02
5895.9240
nfib1 16
nfib2 16
stdev 0.055
extra −0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

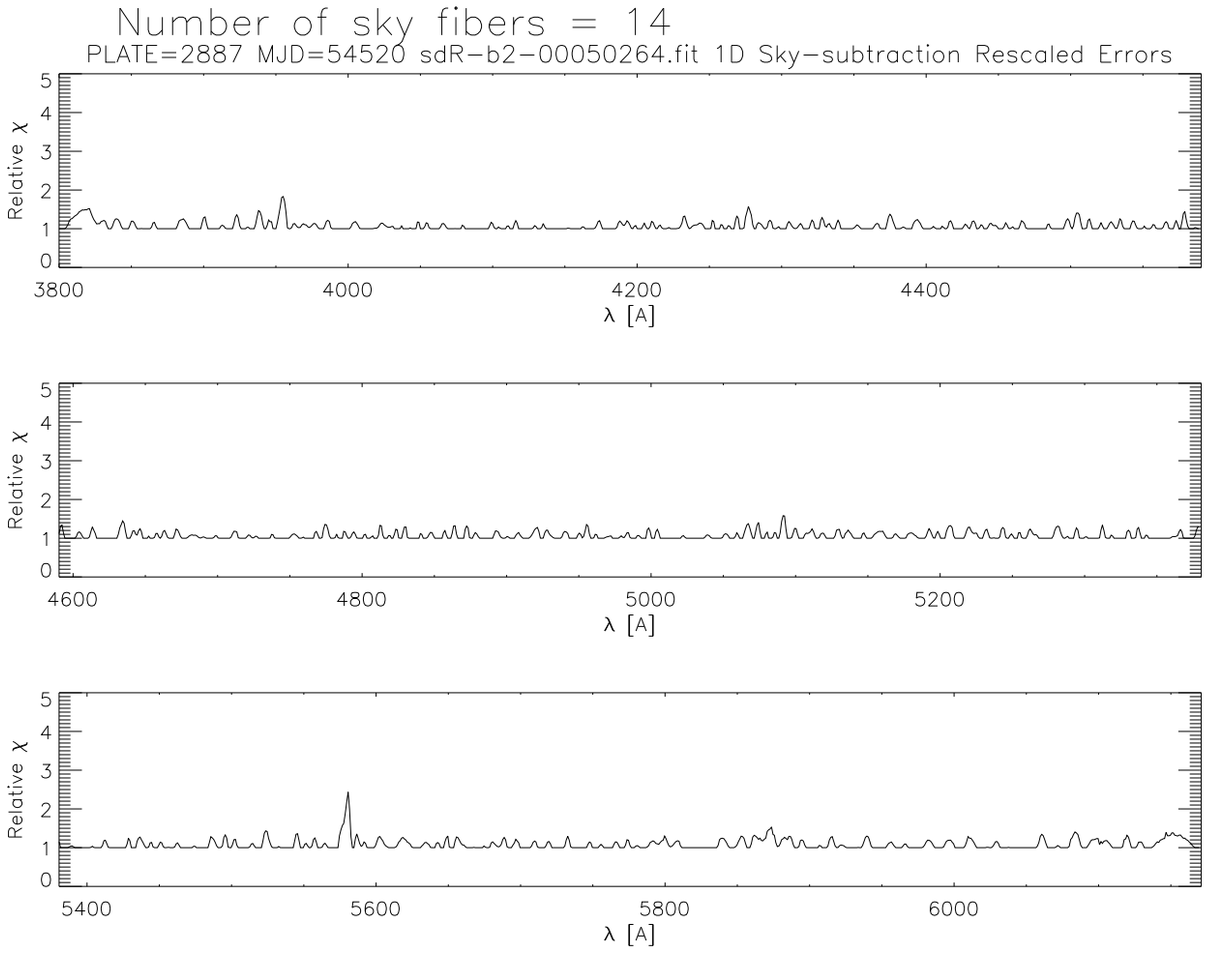

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
3500
4000
4500
5000
5500
6000
6500

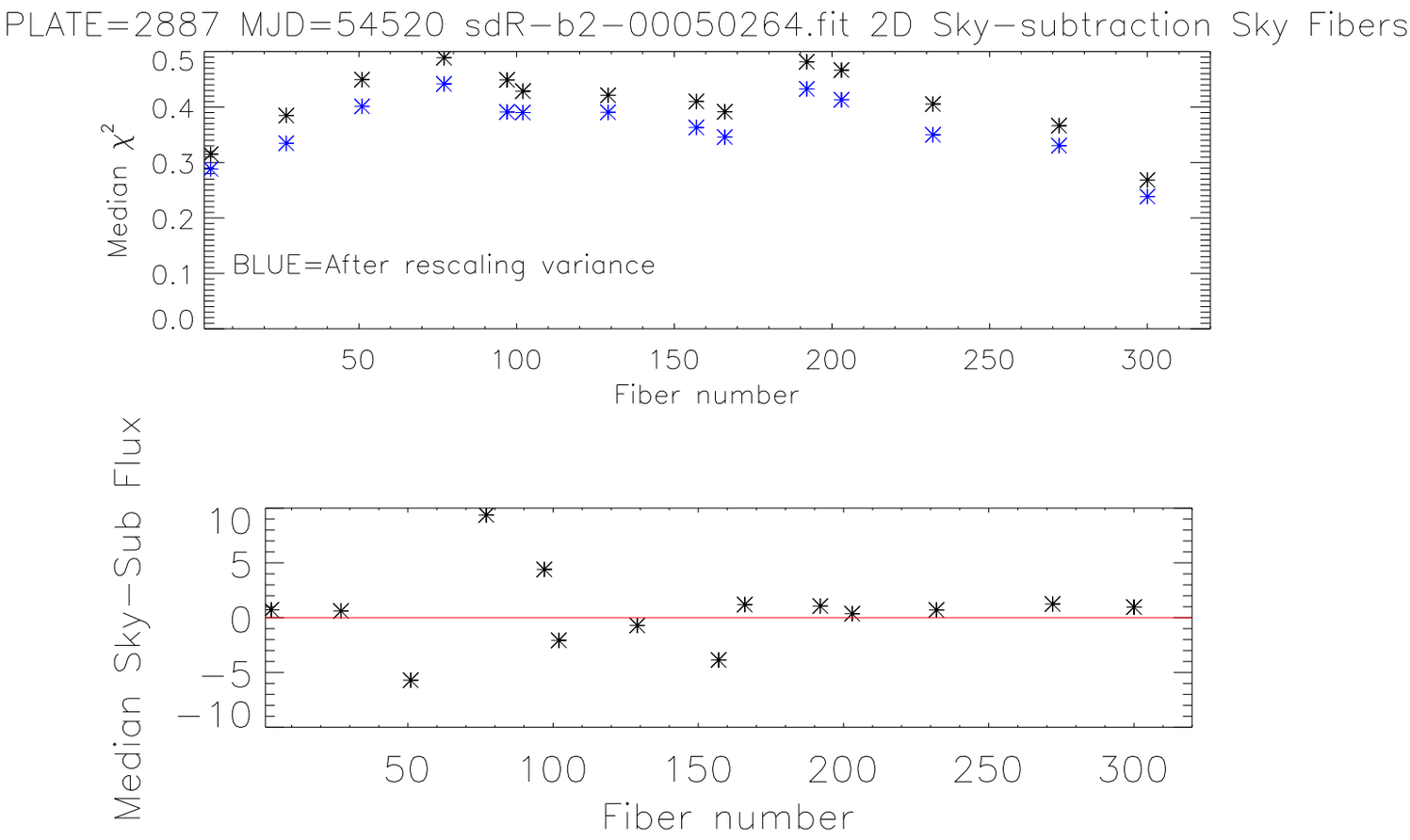

PLATE=2887 MJD=54520 Smooth superflat for sdR-b2-00050264.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
0.990
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

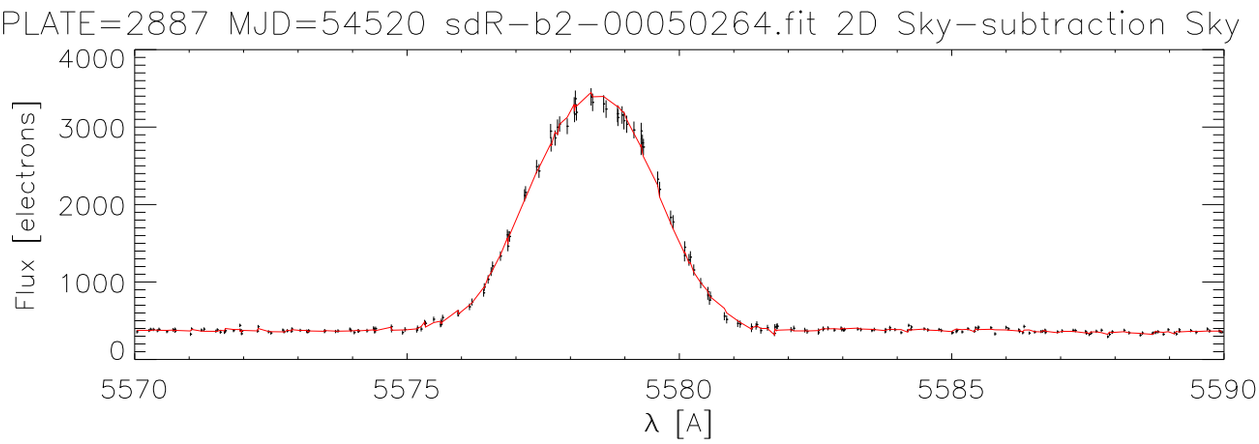

PLATE=2887 MJD=54520 sdR-b2-00050264.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

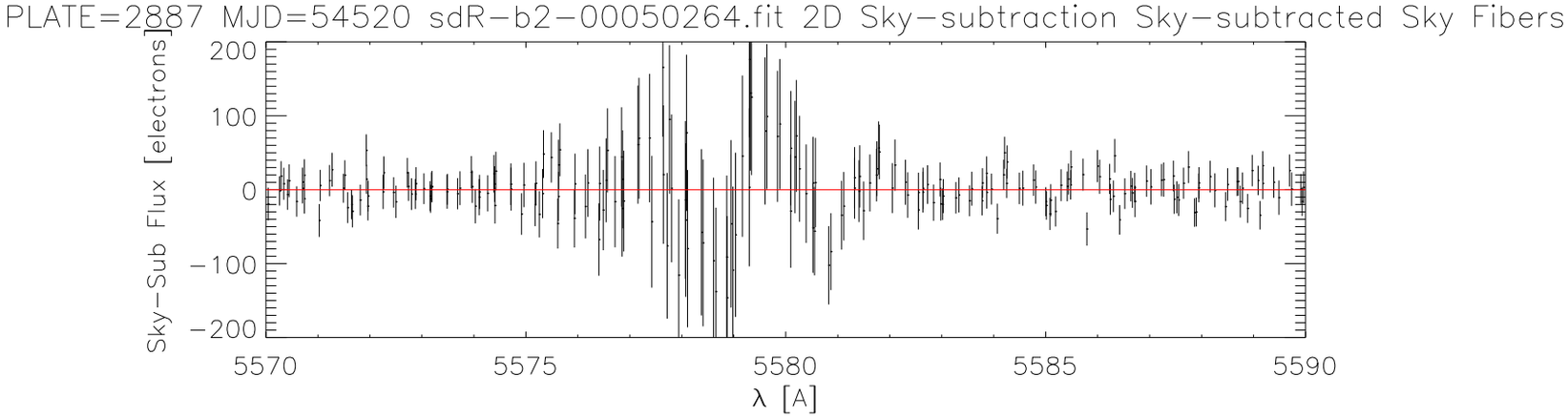

PLATE=2887 MJD=54520 sdR-b2-00050264.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

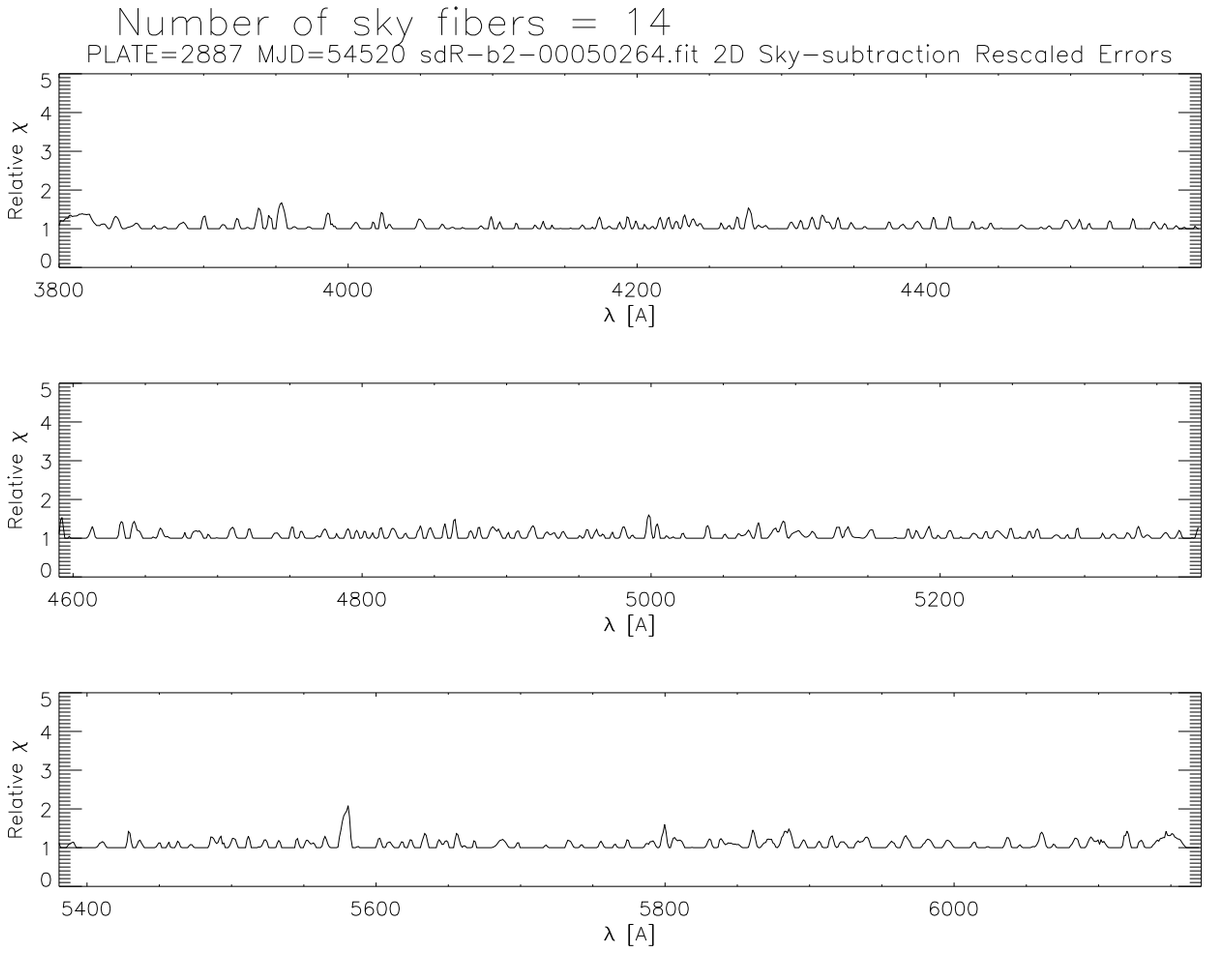

PLATE=2887 MJD=54520 sdR-b2-00050264.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

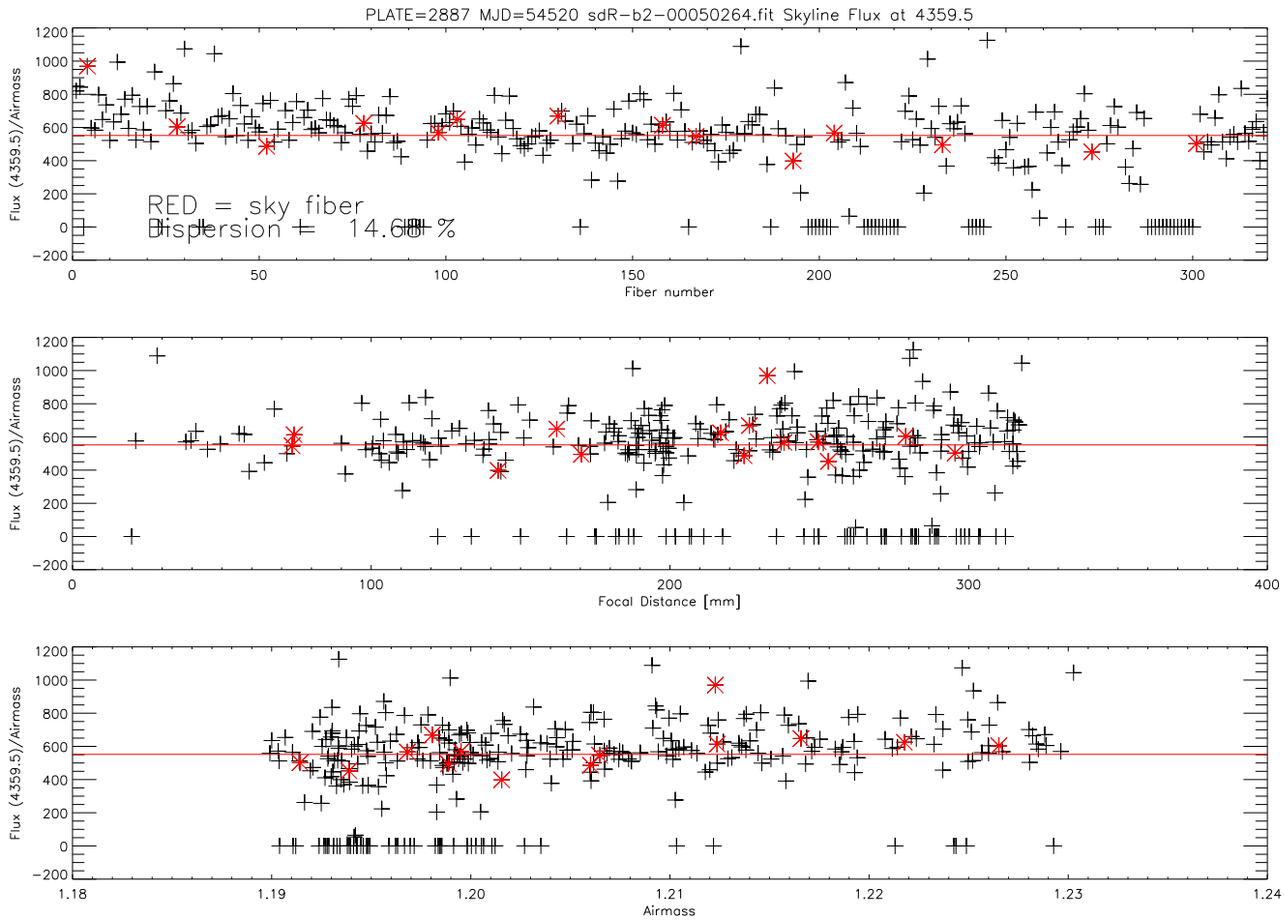

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-b2-00050264.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

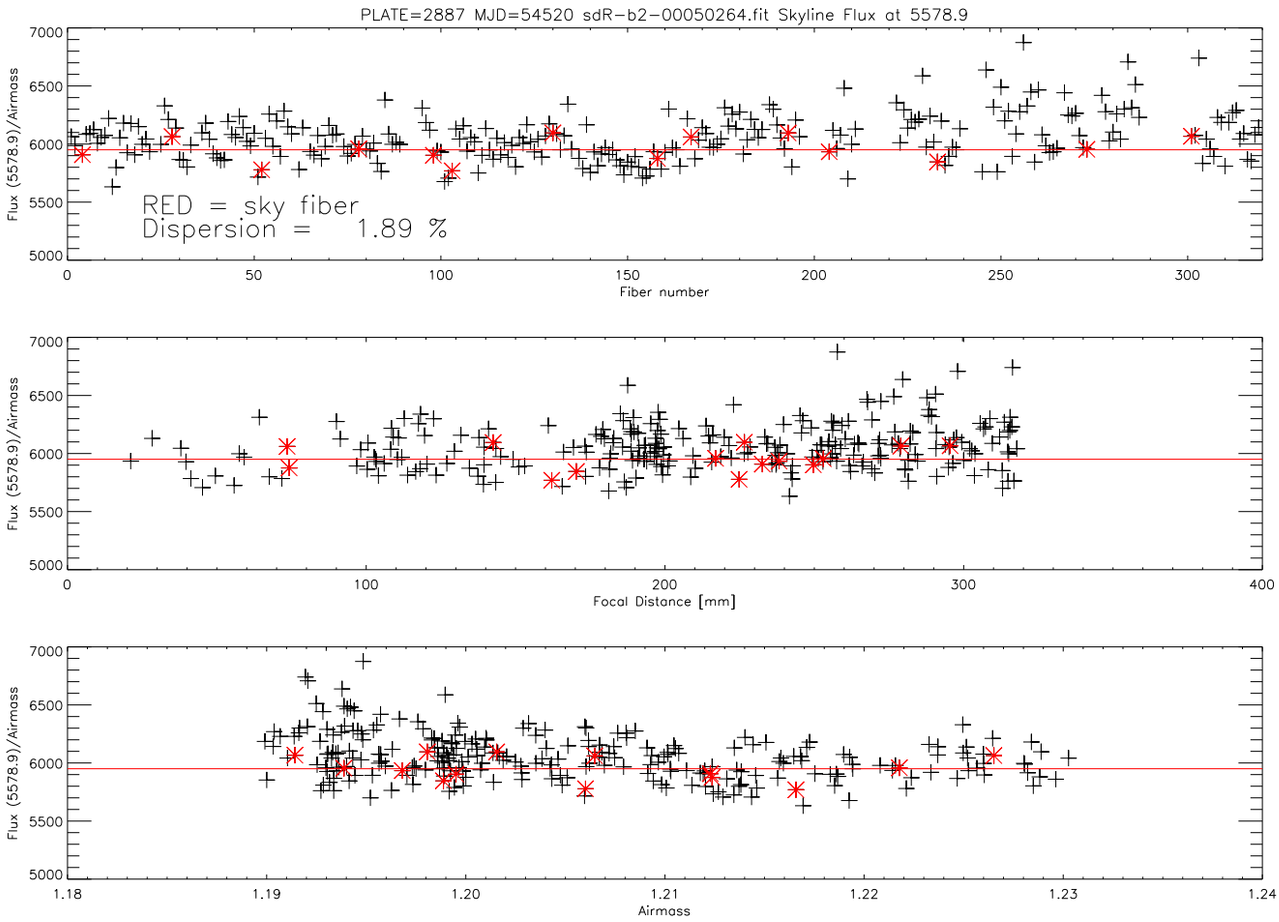

PLATE=2887 MJD=54520 sdR-b2-00050264.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

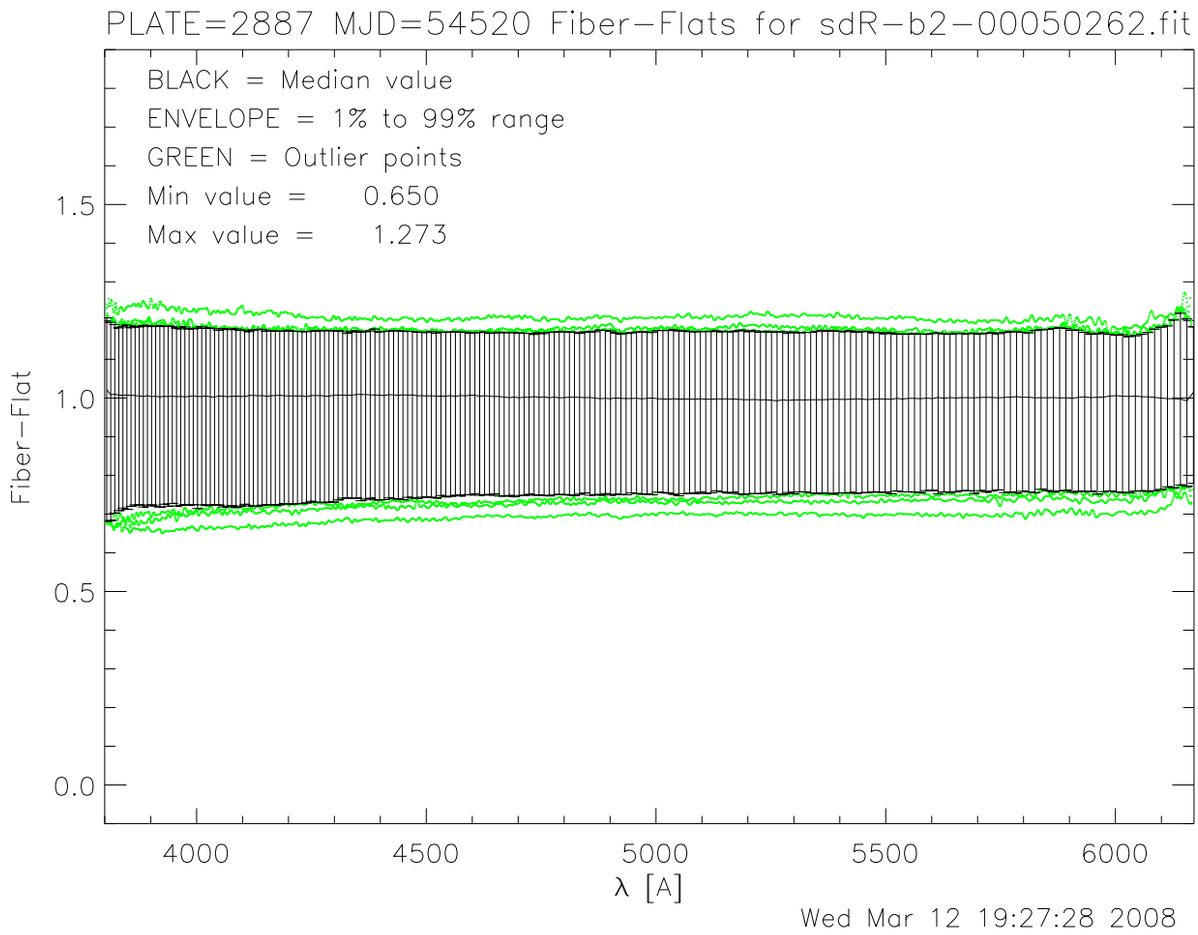

PLATE=2887 MJD=54520 sdR-b2-00050264.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

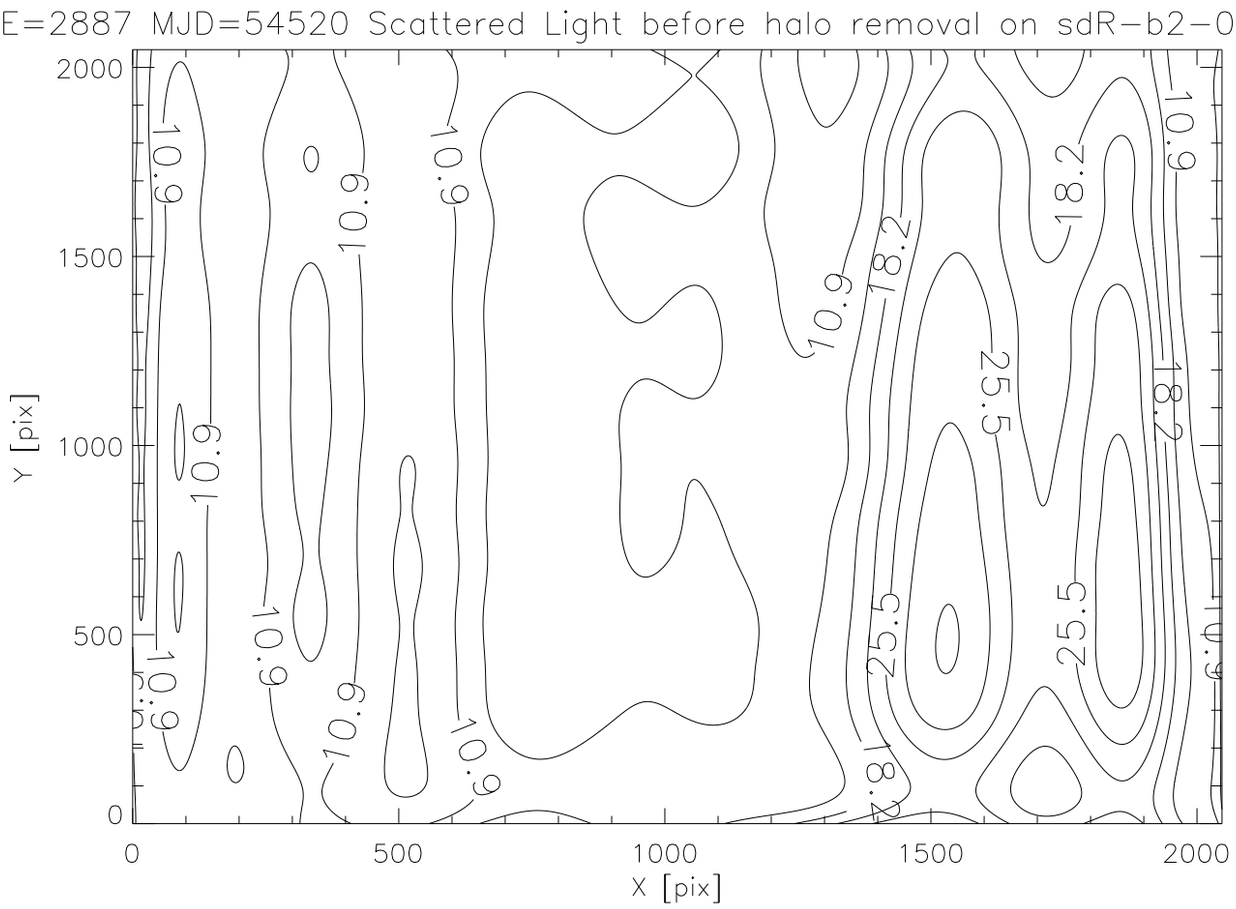

PLATE=2887 MJD=54520 sdR-b2-00050264.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

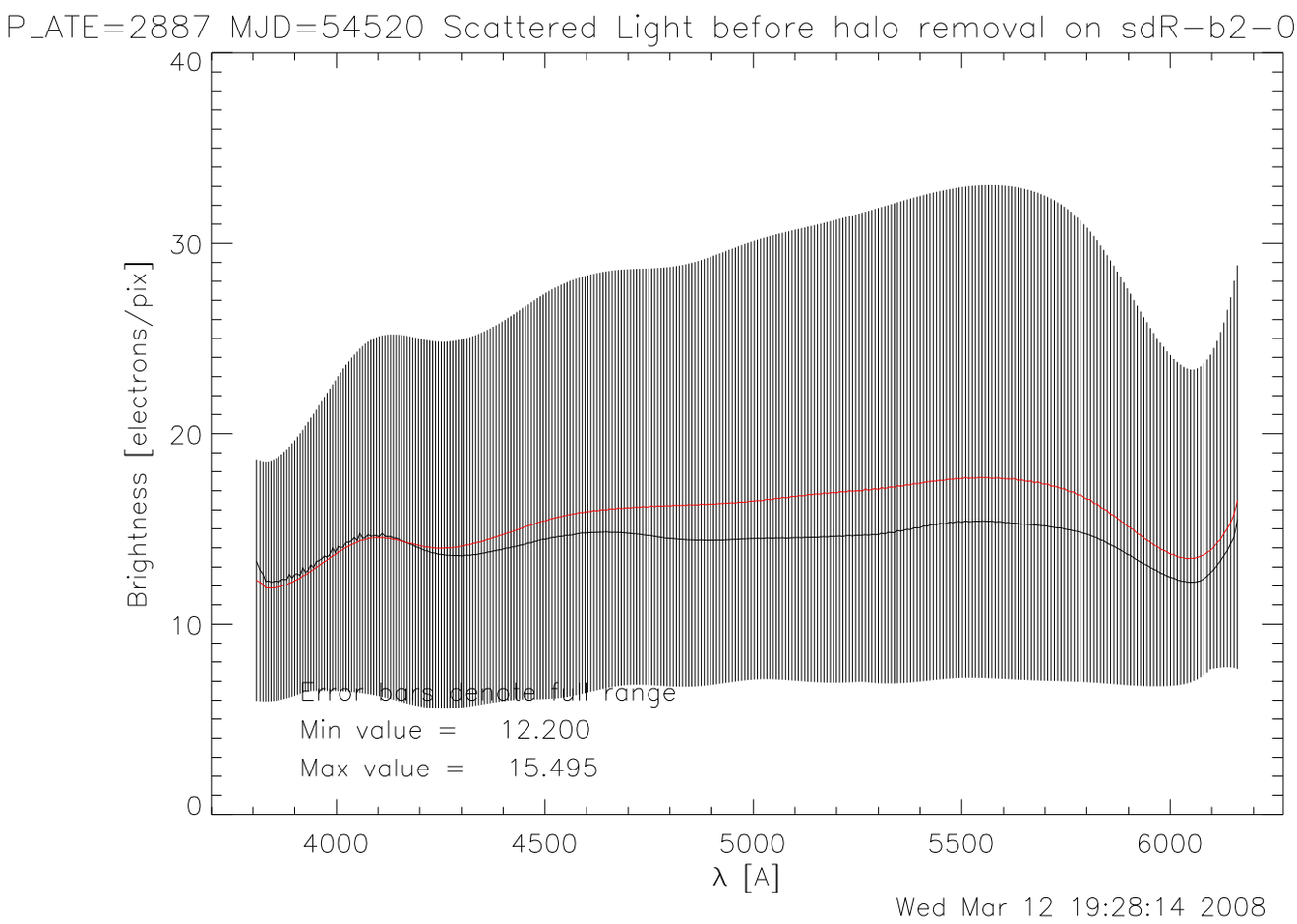

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-b2-00050264.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

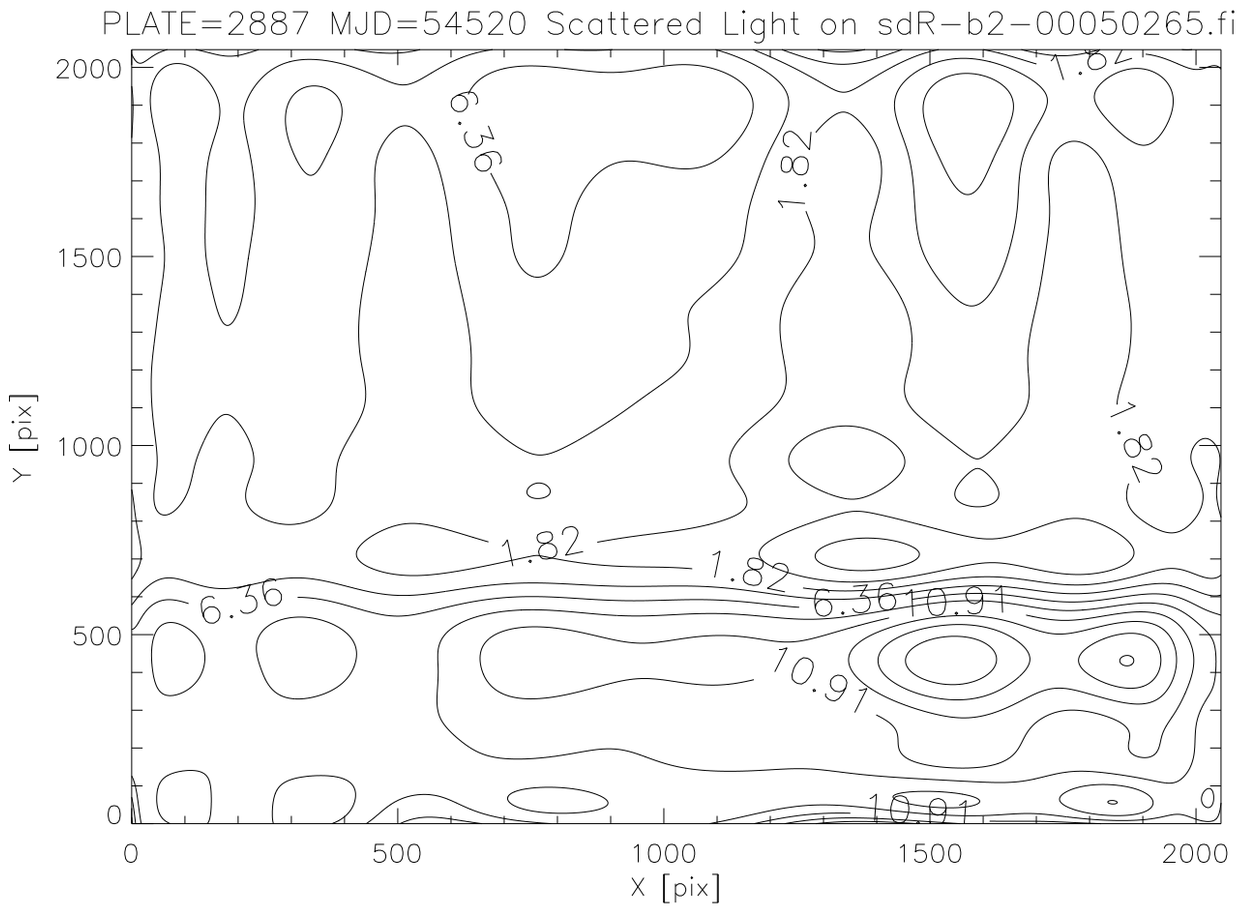

PLATE=2887 MJD=54520 sdR-b2-00050264.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
Fiber number
RED = sky fiber
Dispersion = 14.68 %
Focal Distance [mm]
Airmass

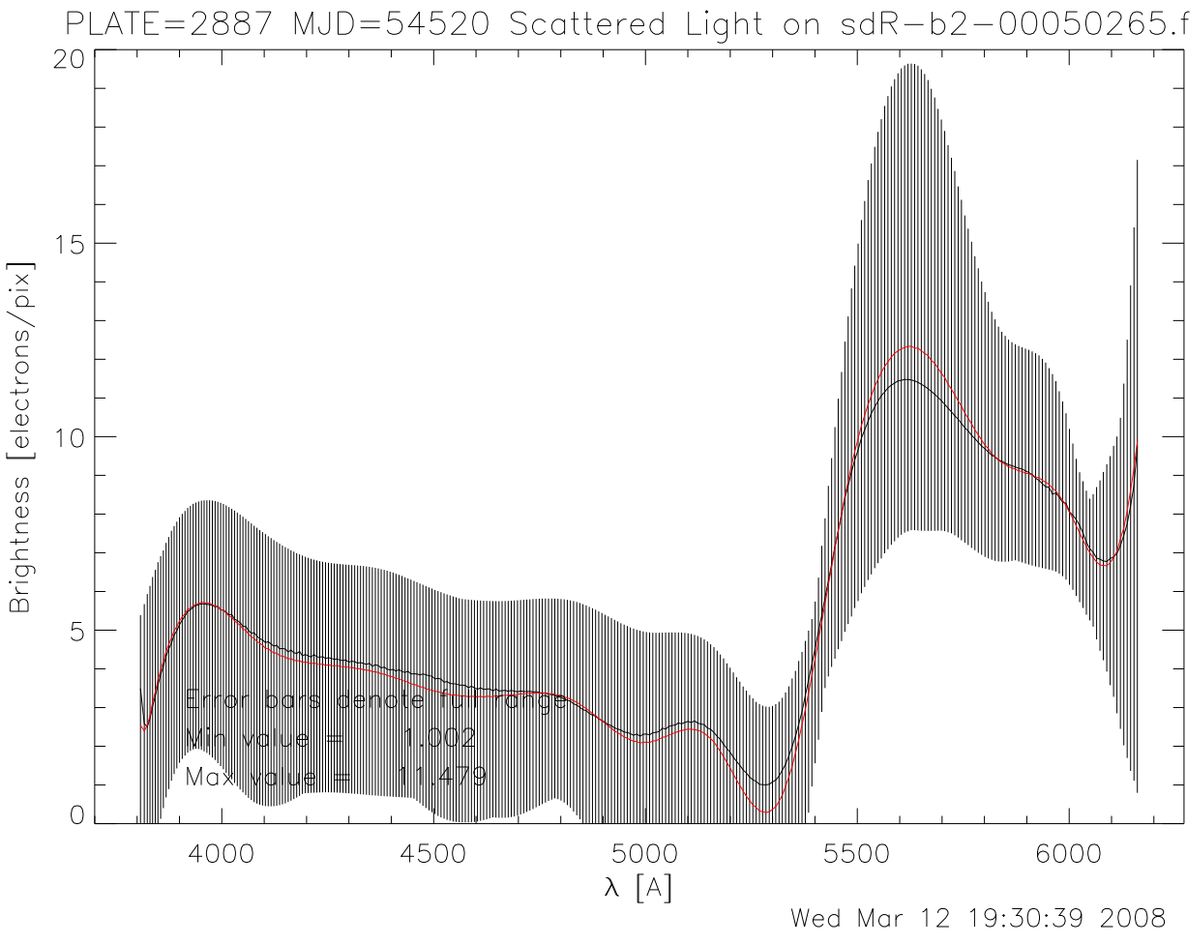

PLATE=2887 MJD=54520 sdR-b2-00050264.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
Fiber number
RED = sky fiber
Dispersion = 1.89 %
Flux (5578.9)/Airmass
Focal Distance [mm]
Flux (5578.9)/Airmass
Airmass

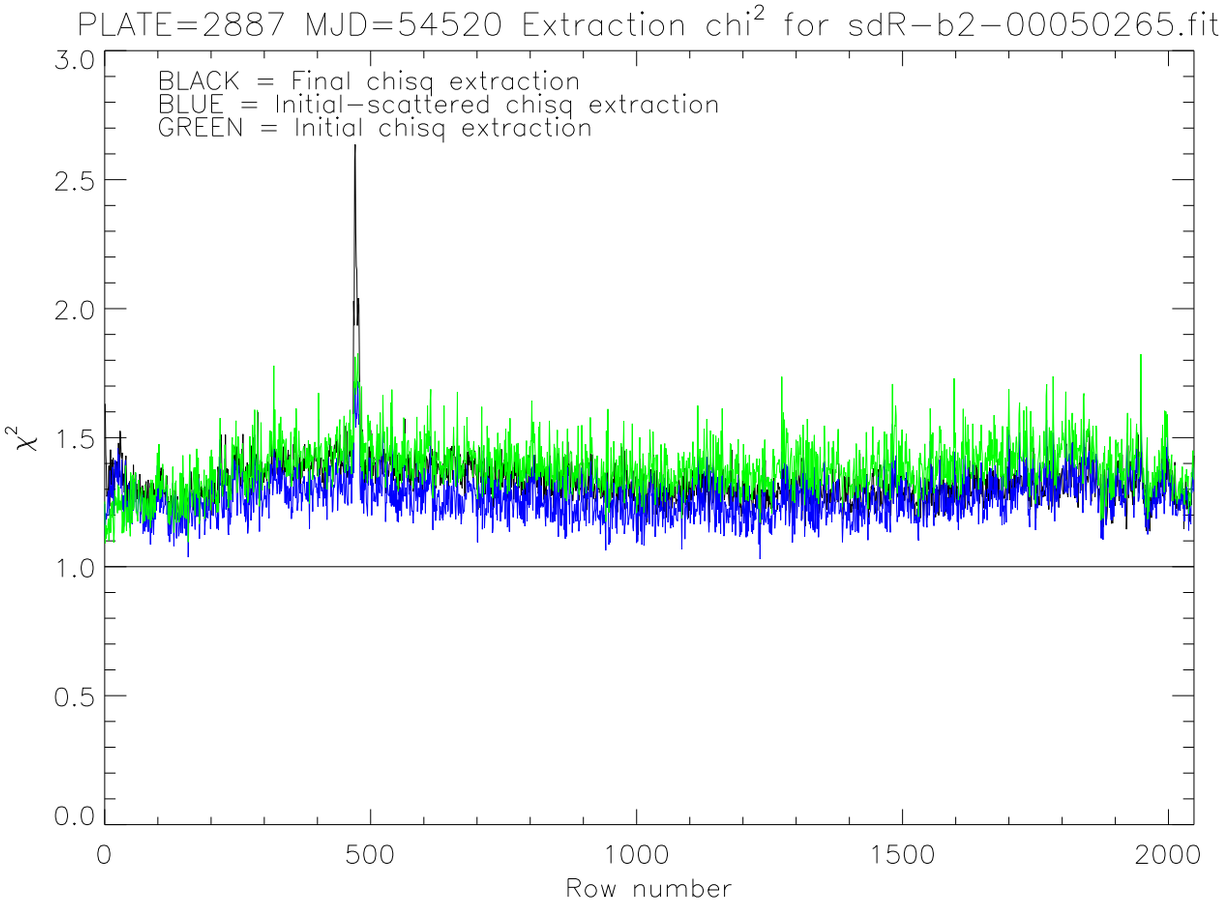

PLATE=2887 MJD=54520 Fiber-Flats for sdR-b2-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.650
Max value = 1.273
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Wed Mar 12 19:27:28 2008

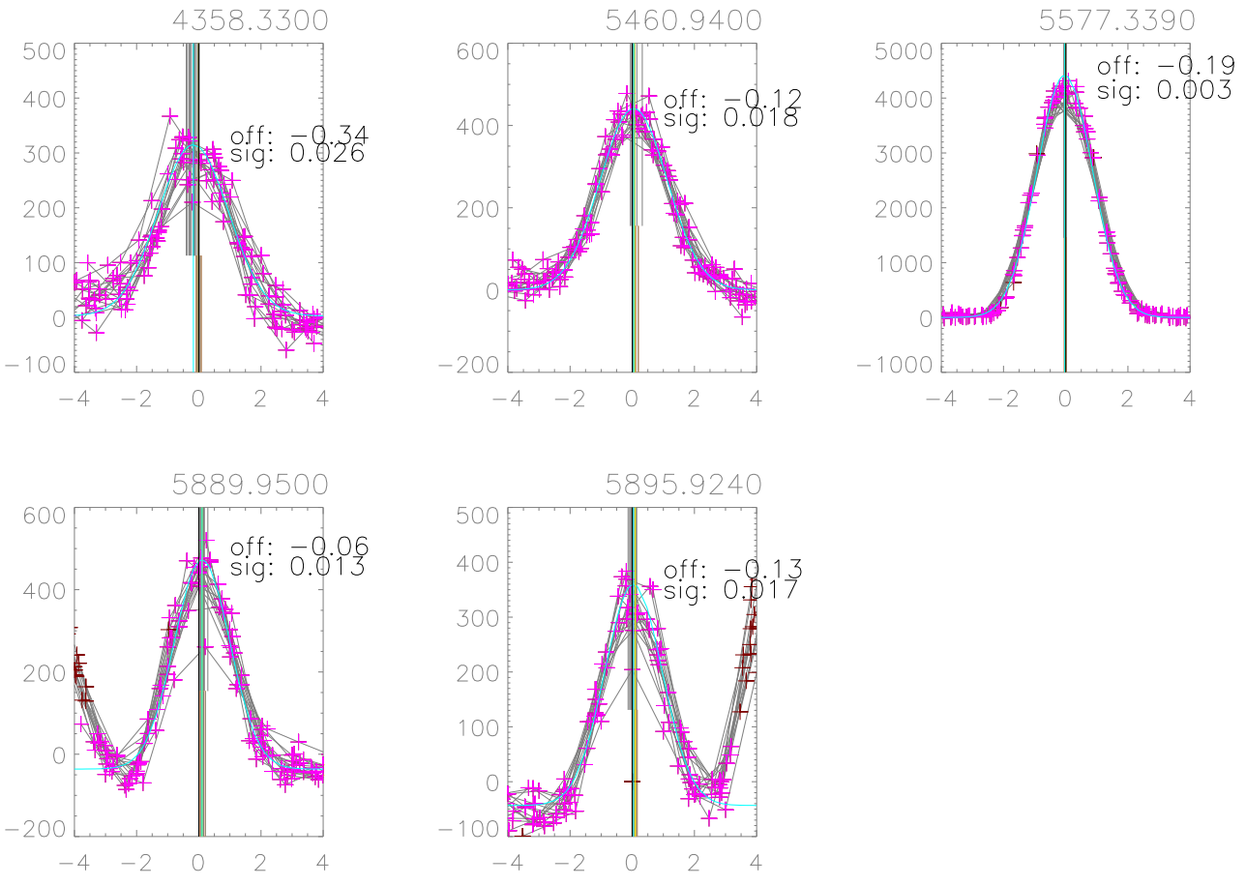

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b2-00050265.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.9
18.2
25.5
0

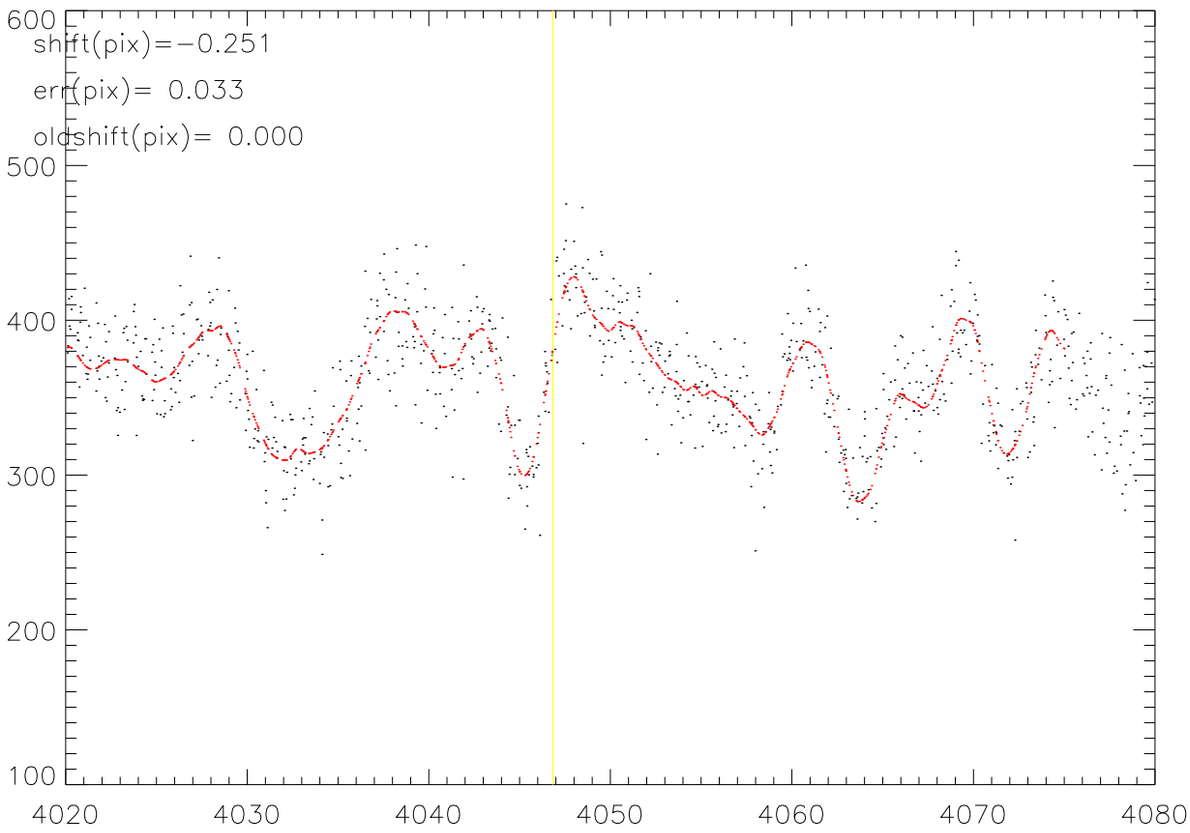

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-b2-00050265.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 12.200
Max value = 15.495
Wed Mar 12 19:28:14 2008

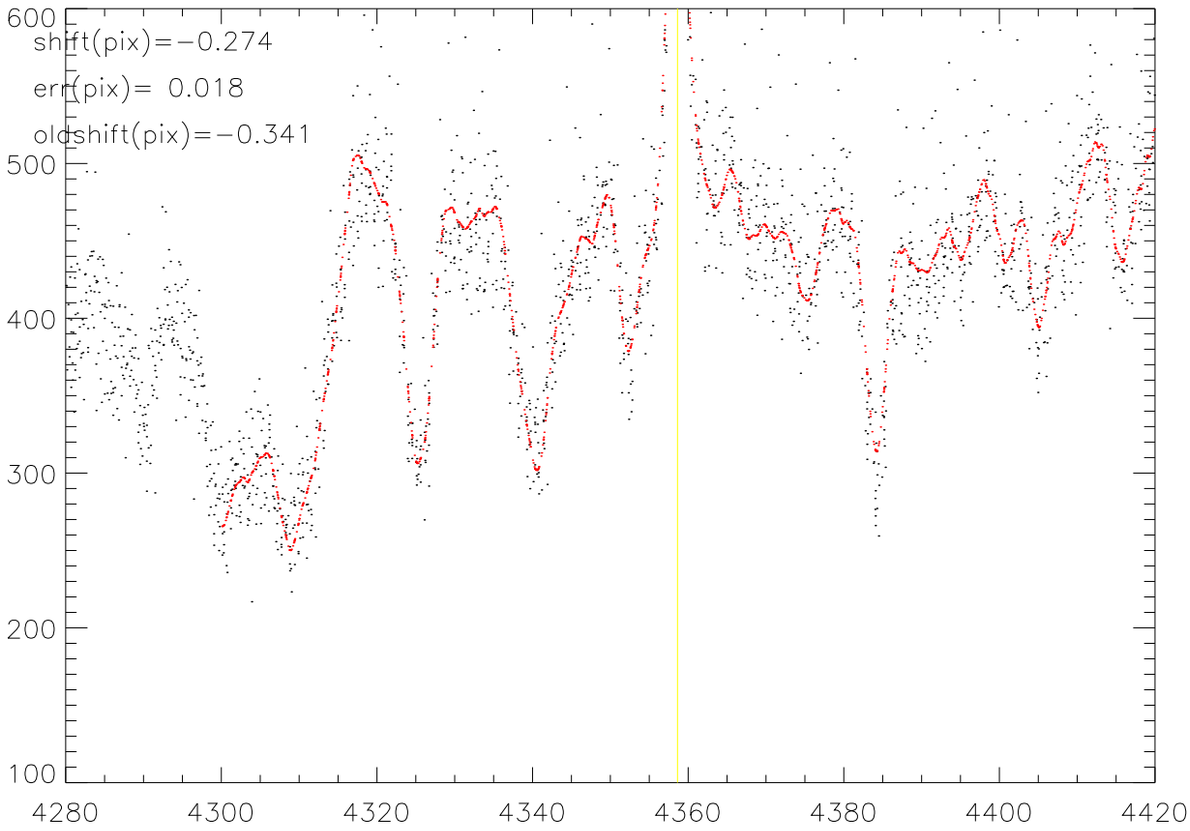

PLATE=2887 MJD=54520 Scattered Light on sdR-b2-00050265.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.36
1.82
0
10.91

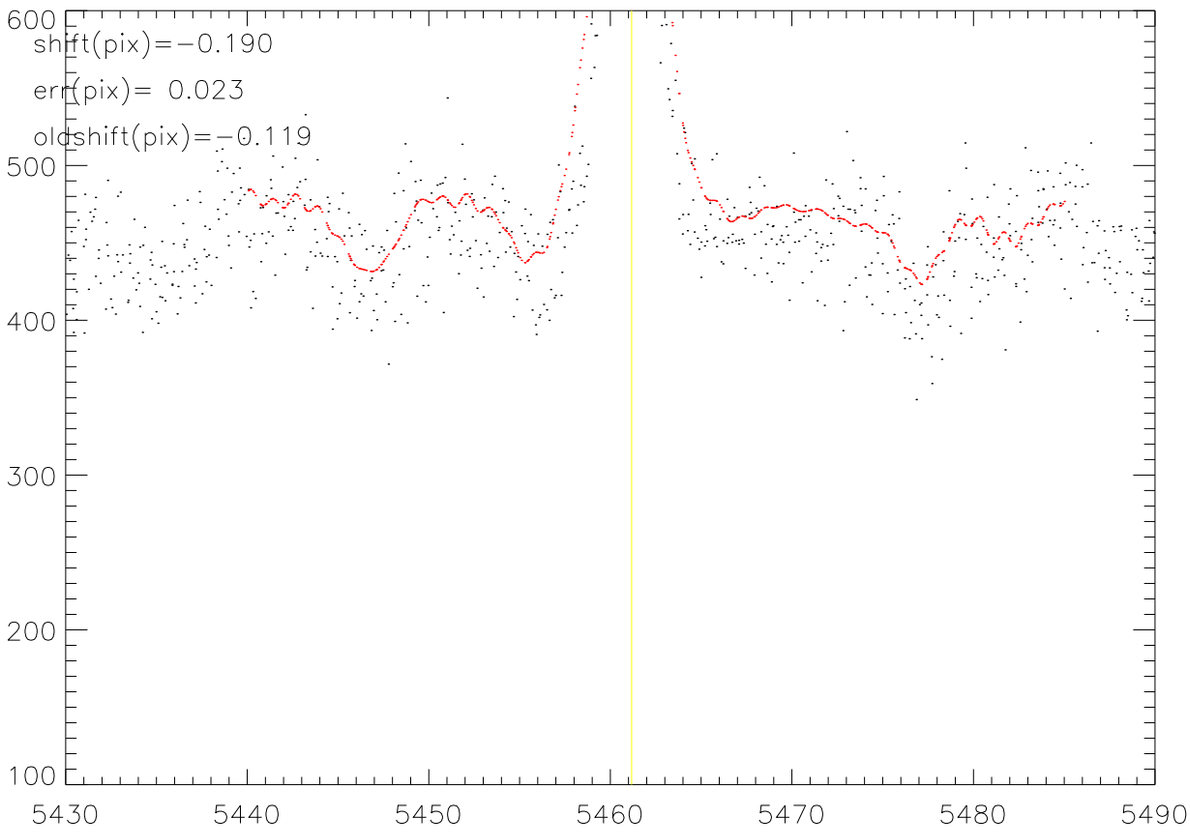

PLATE=2887 MJD=54520 Scattered Light on sdR-b2-00050265.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 1.002
Max value = 11.479
Wed Mar 12 19:30:39 2008

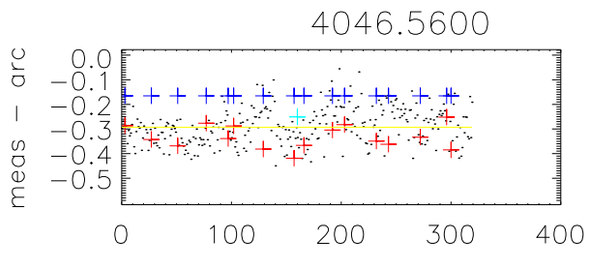

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-b2-00050265.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

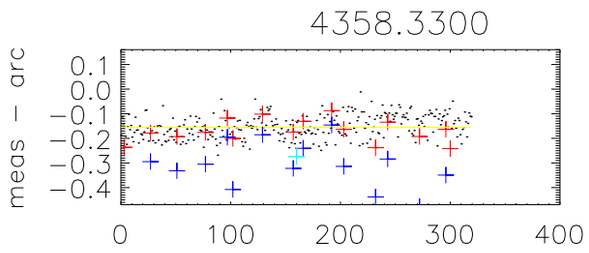

4358.3300
off: −0.34
sig: 0.026
5460.9400
off: −0.12
sig: 0.018
5577.3390
off: −0.19
sig: 0.003
5889.9500
off: −0.06
sig: 0.013
5895.9240
off: −0.13
sig: 0.017

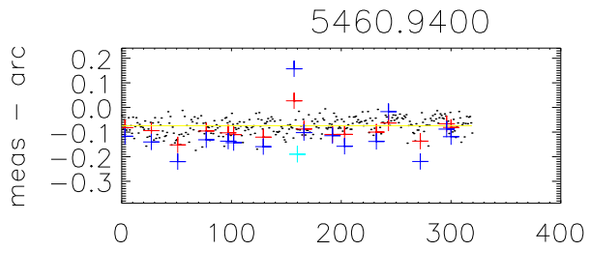

shift(pix)=−0.251
err(pix)= 0.033
oldshift(pix)= 0.000
600
500
400
300
200
100
4020
4030
4040
4050
4060
4070
4080

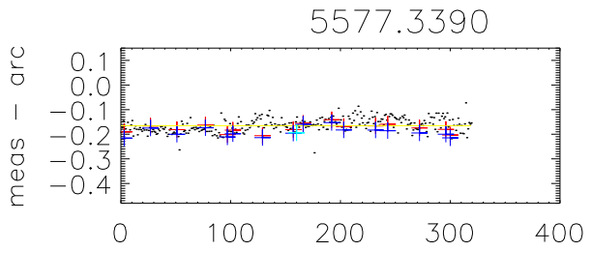

shift(pix)=−0.274
err(pix)= 0.018
oldshift(pix)=−0.341
600
500
400
300
200
100
4280
4300
4320
4340
4360
4380
4400
4420

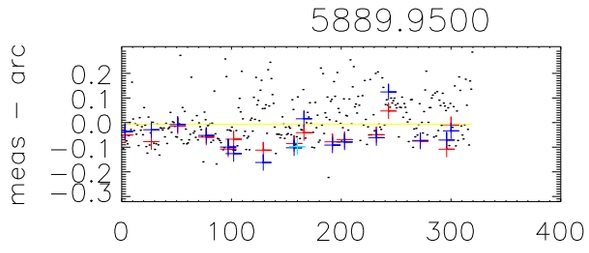

shift(pix)=−0.190
err(pix)= 0.023
oldshift(pix)=−0.119
600
500
400
300
200
100
5430
5440
5450
5460
5470
5480
5490

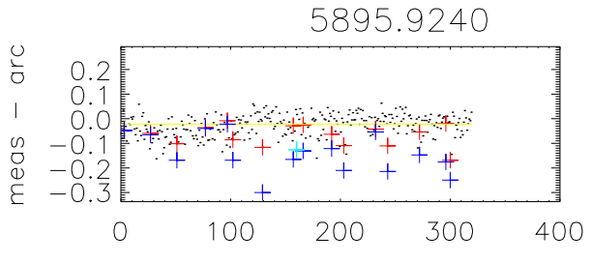

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

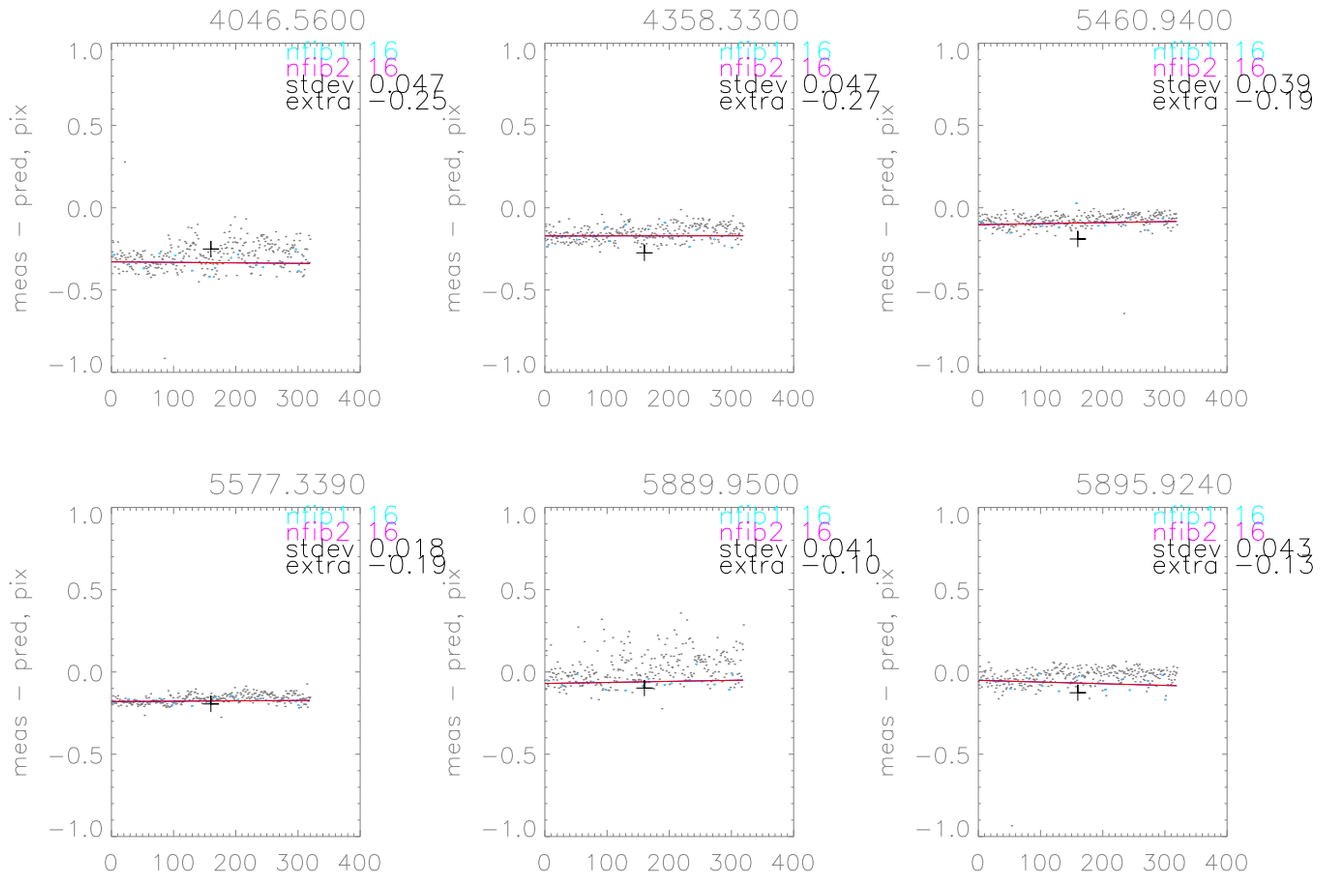

4358.3300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

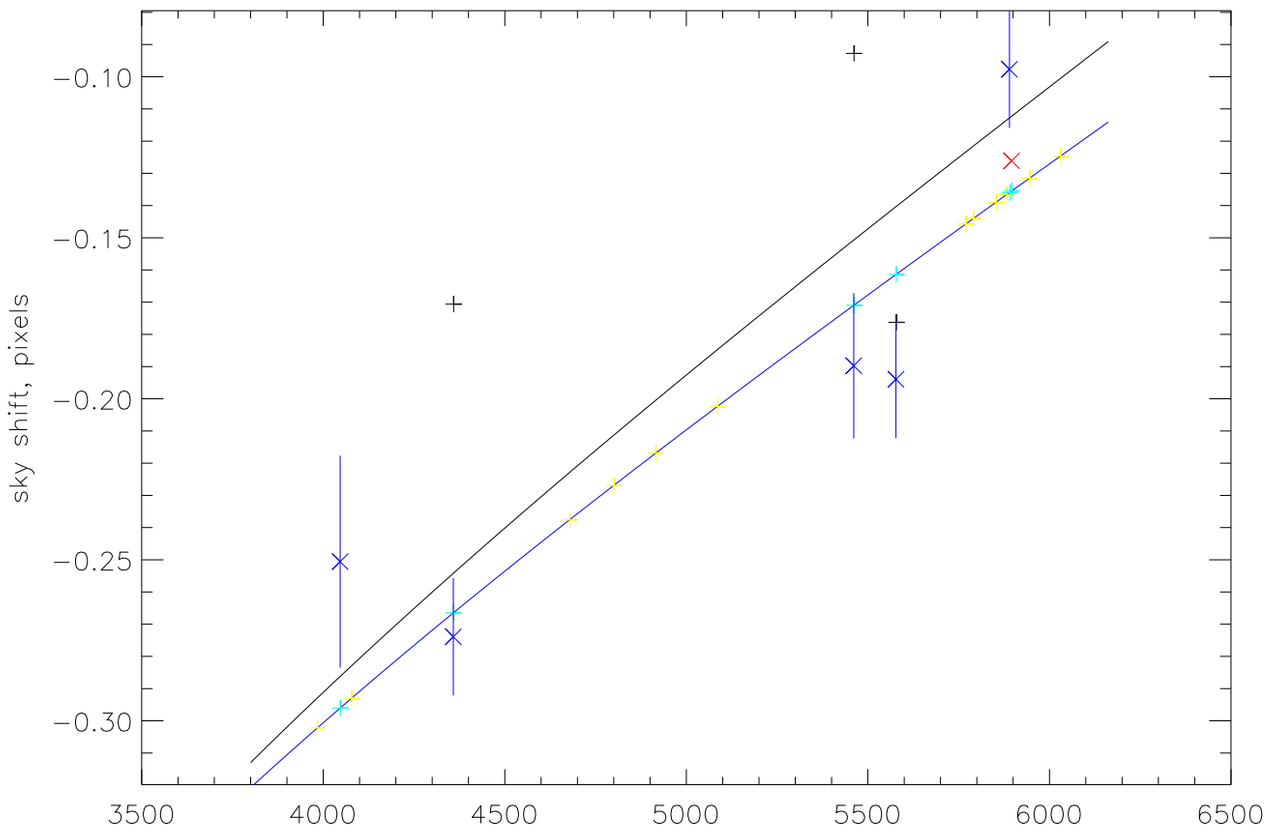

5460.9400
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

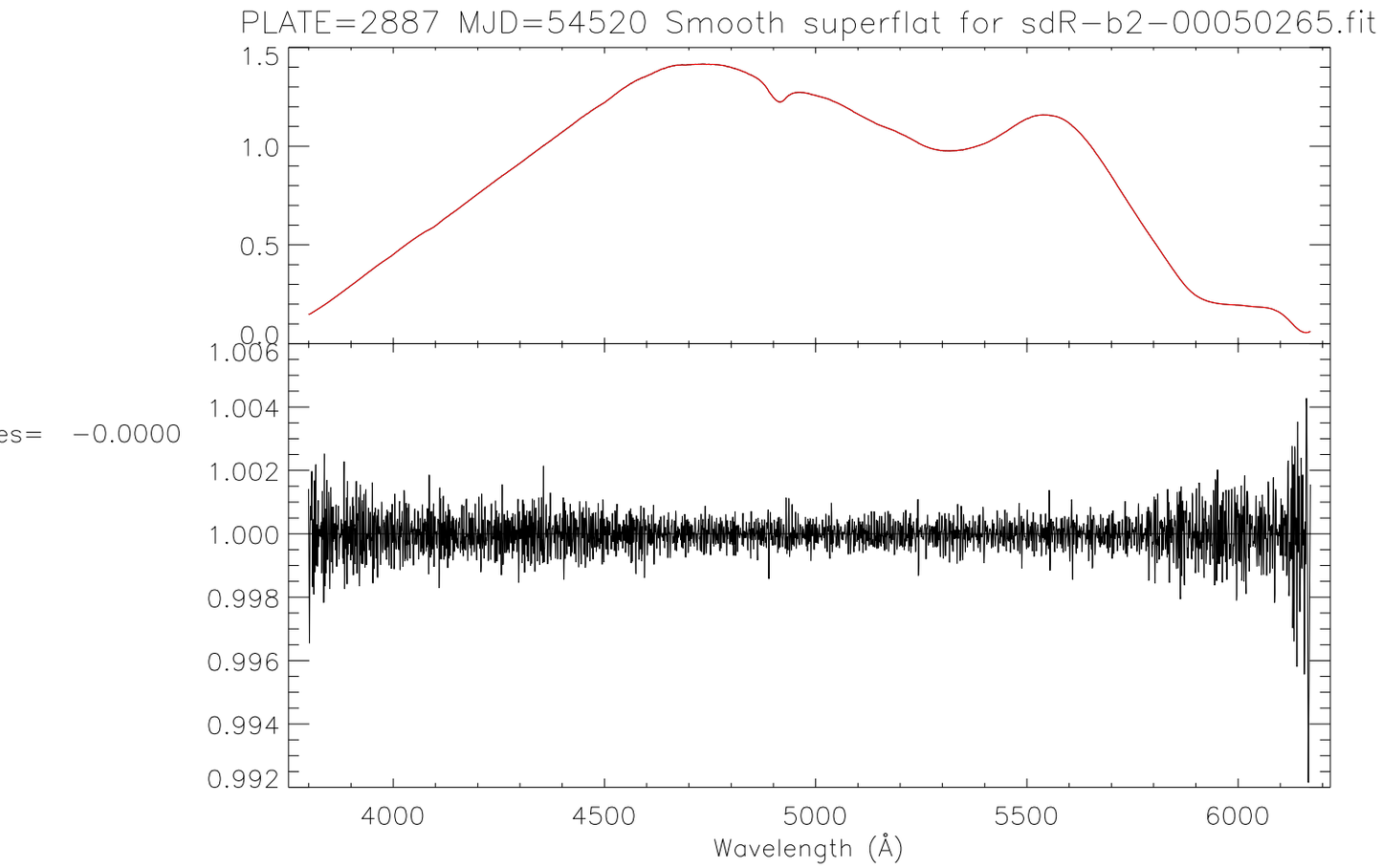

5577.3390
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

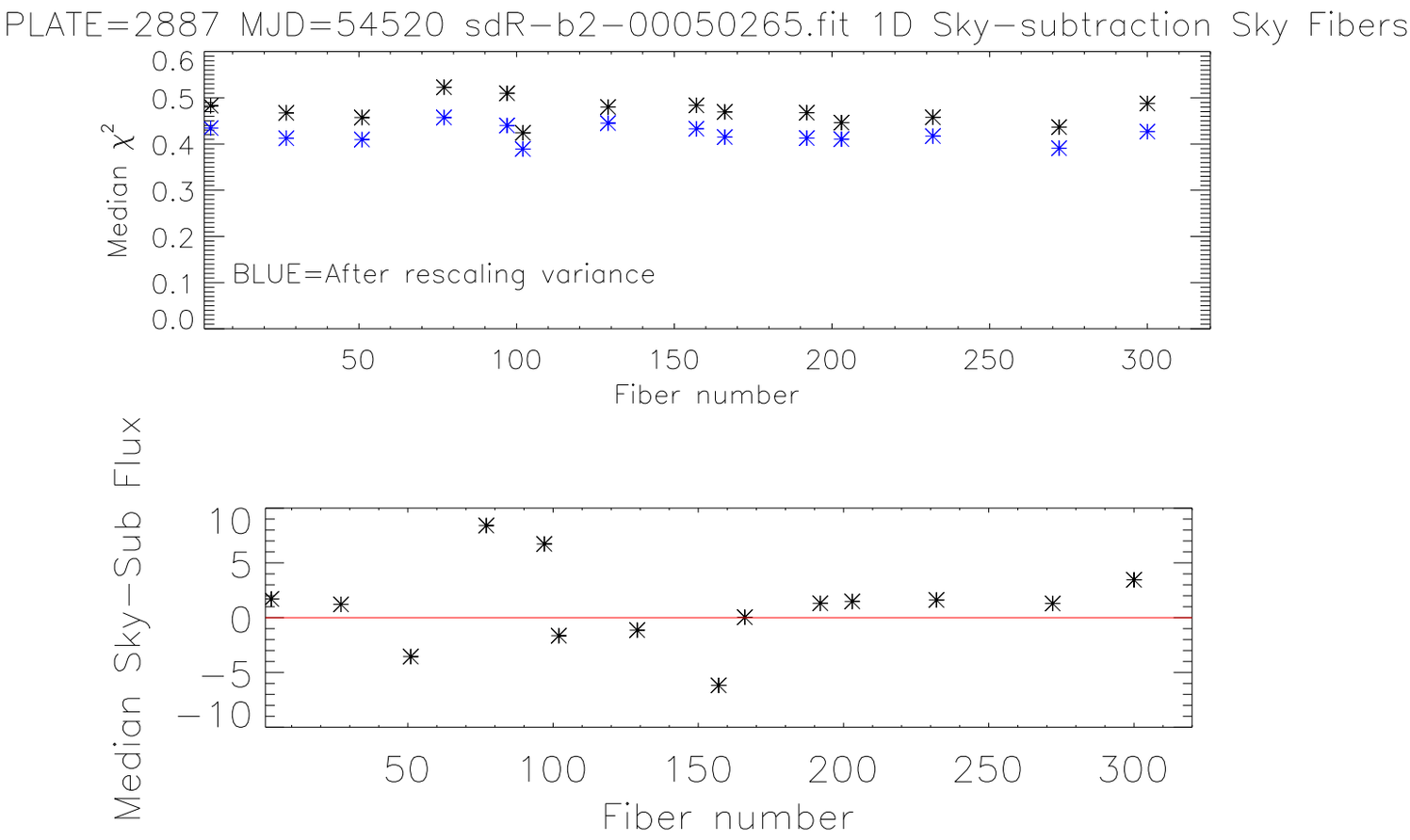

5889.9500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

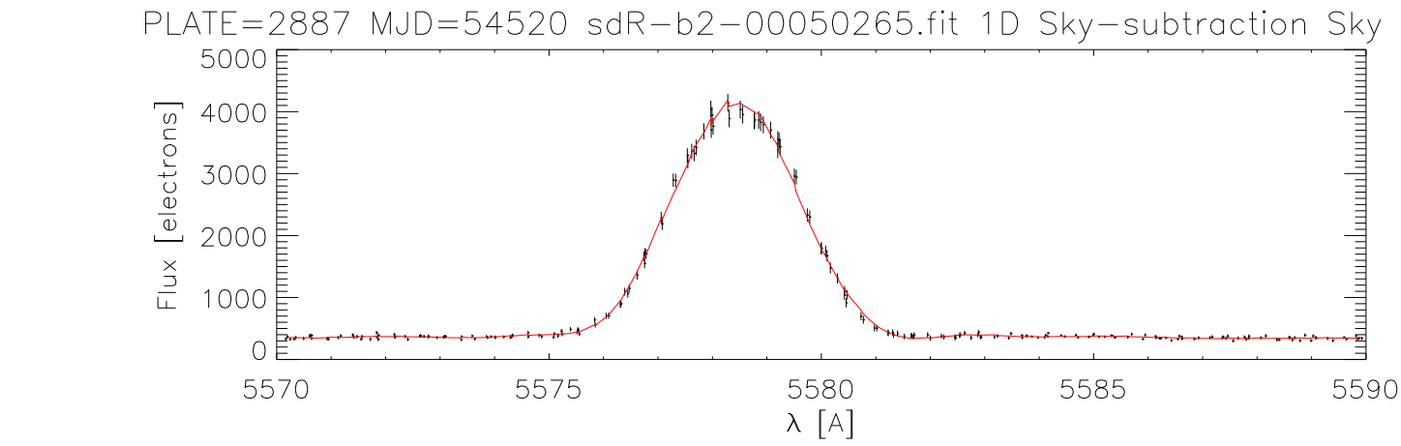

5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

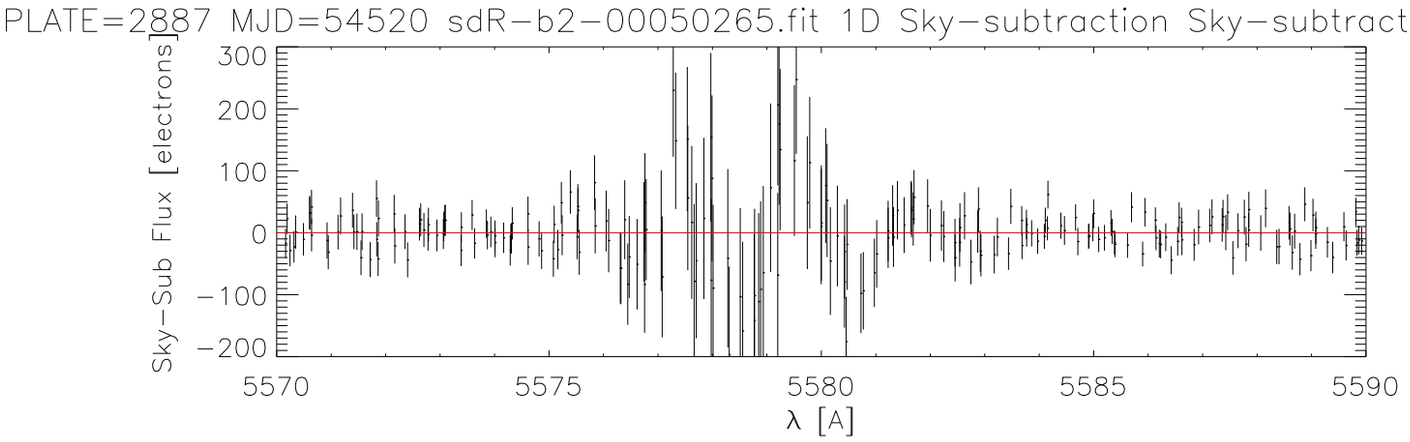

4046.5600
nfib1 16
nfib2 16
stdev 0.047
extra −0.25
4358.3300
nfib1 16
nfib2 16
stdev 0.047
extra −0.27
5460.9400
nfib1 16
nfib2 16
stdev 0.039
extra −0.19
5577.3390
nfib1 16
nfib2 16
stdev 0.018
extra −0.19
5889.9500
nfib1 16
nfib2 16
stdev 0.041
extra −0.10
5895.9240
nfib1 16
nfib2 16
stdev 0.043
extra −0.13
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

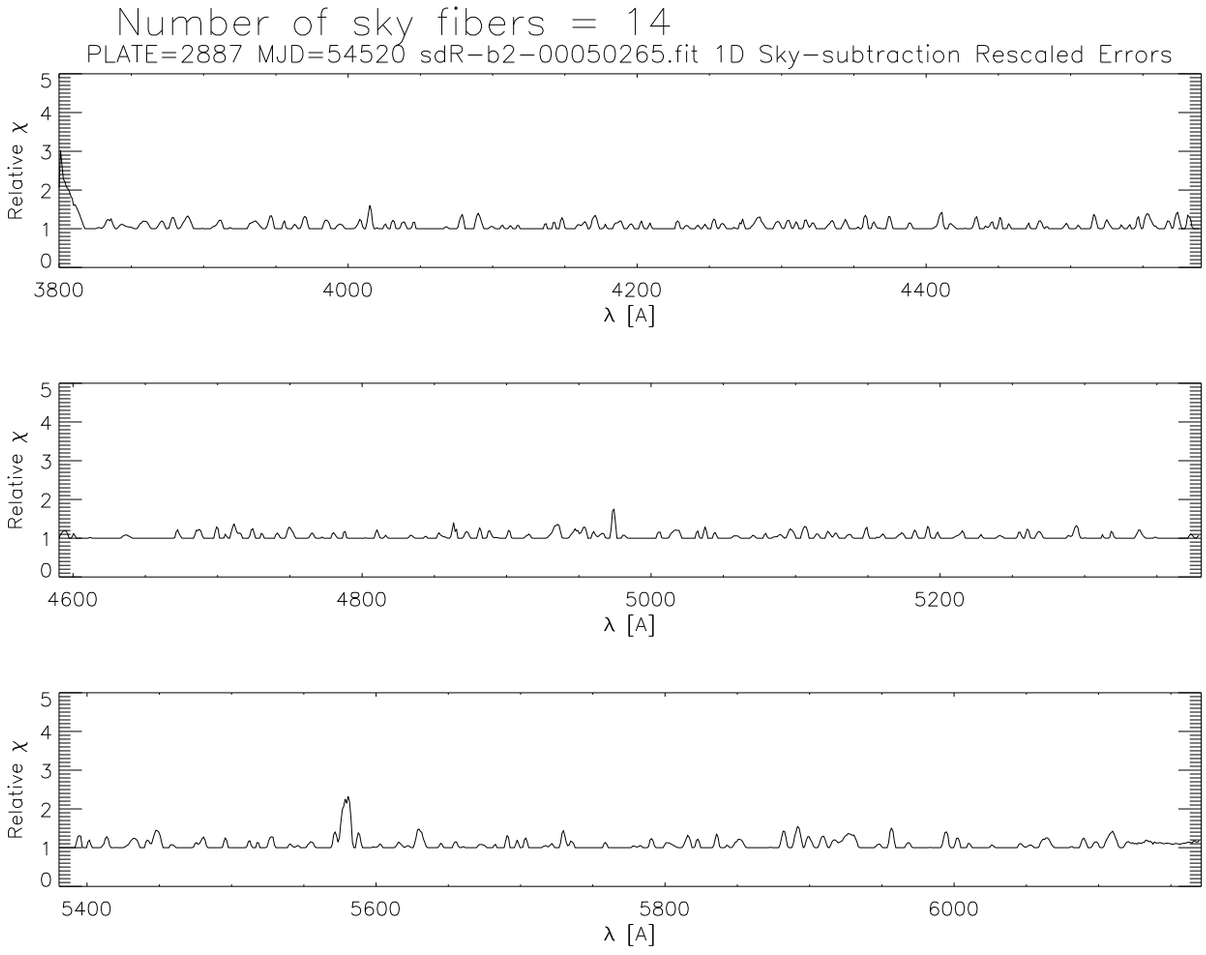

sky shift, pixels
−0.10
−0.15
−0.20
−0.25
−0.30
3500
4000
4500
5000
5500
6000
6500

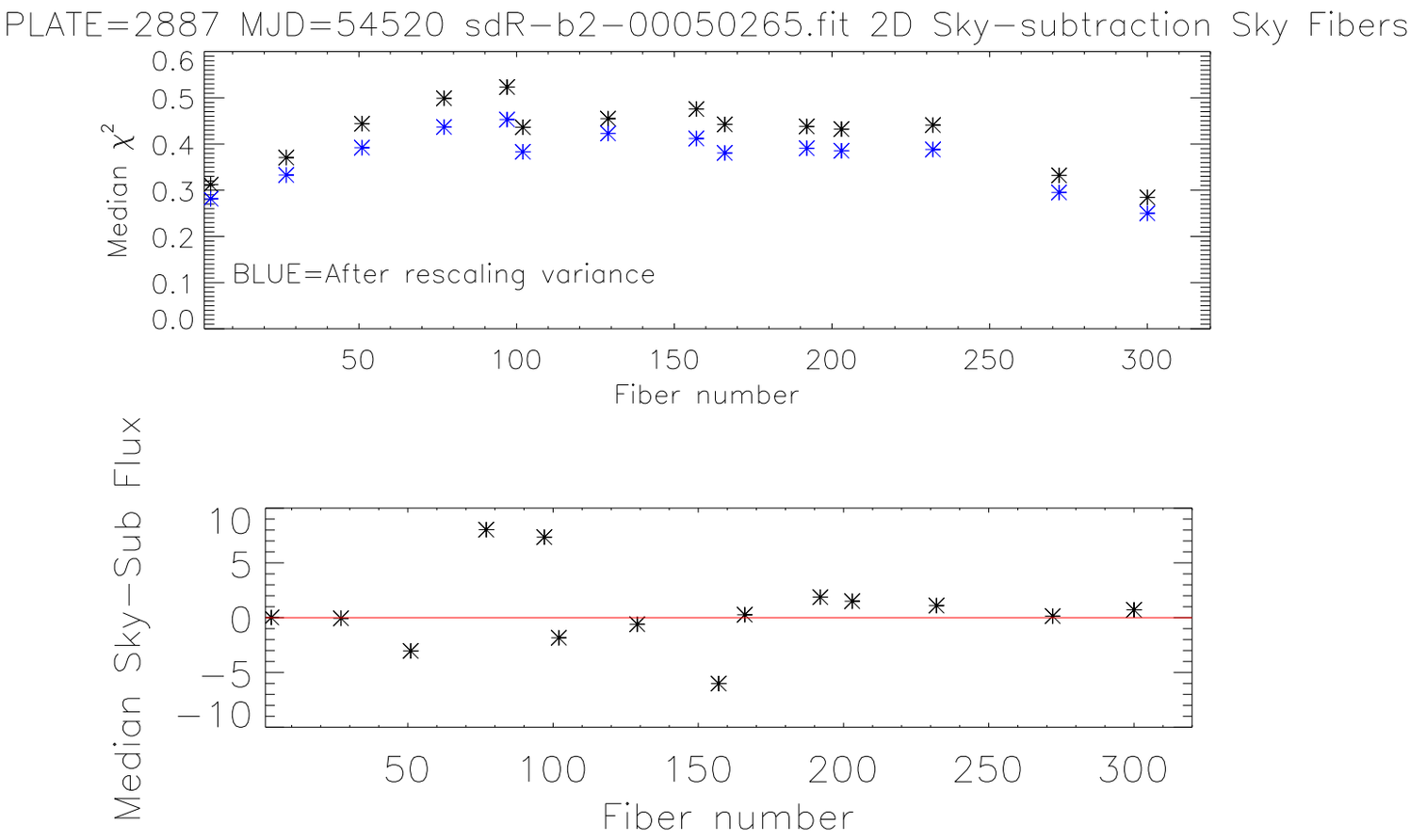

PLATE=2887 MJD=54520 Smooth superflat for sdR-b2-00050265.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

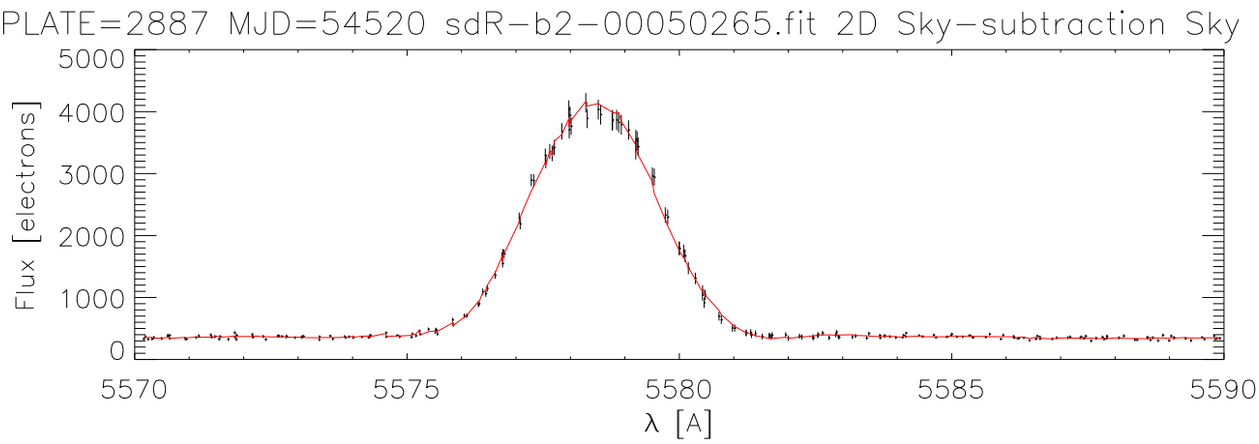

PLATE=2887 MJD=54520 sdR-b2-00050265.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

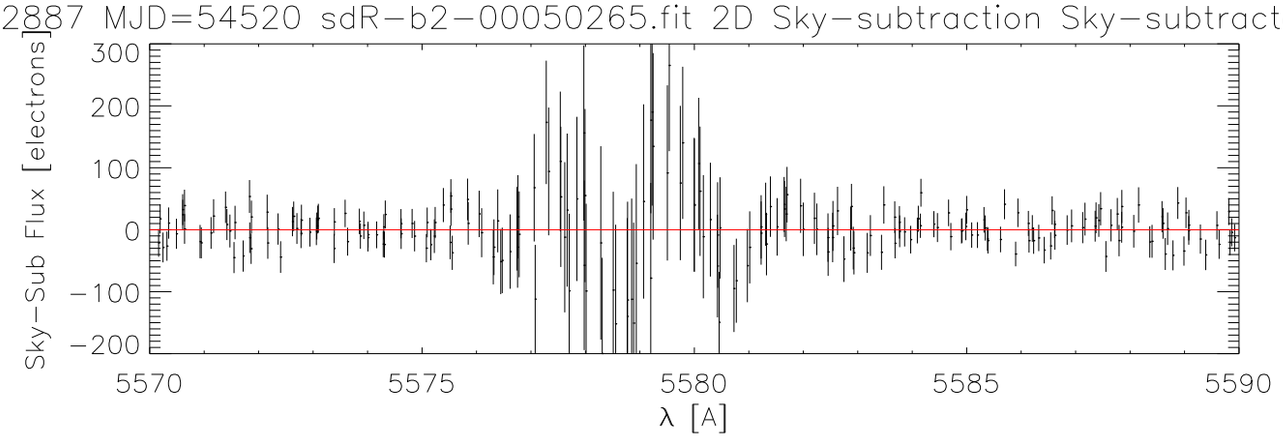

PLATE=2887 MJD=54520 sdR-b2-00050265.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

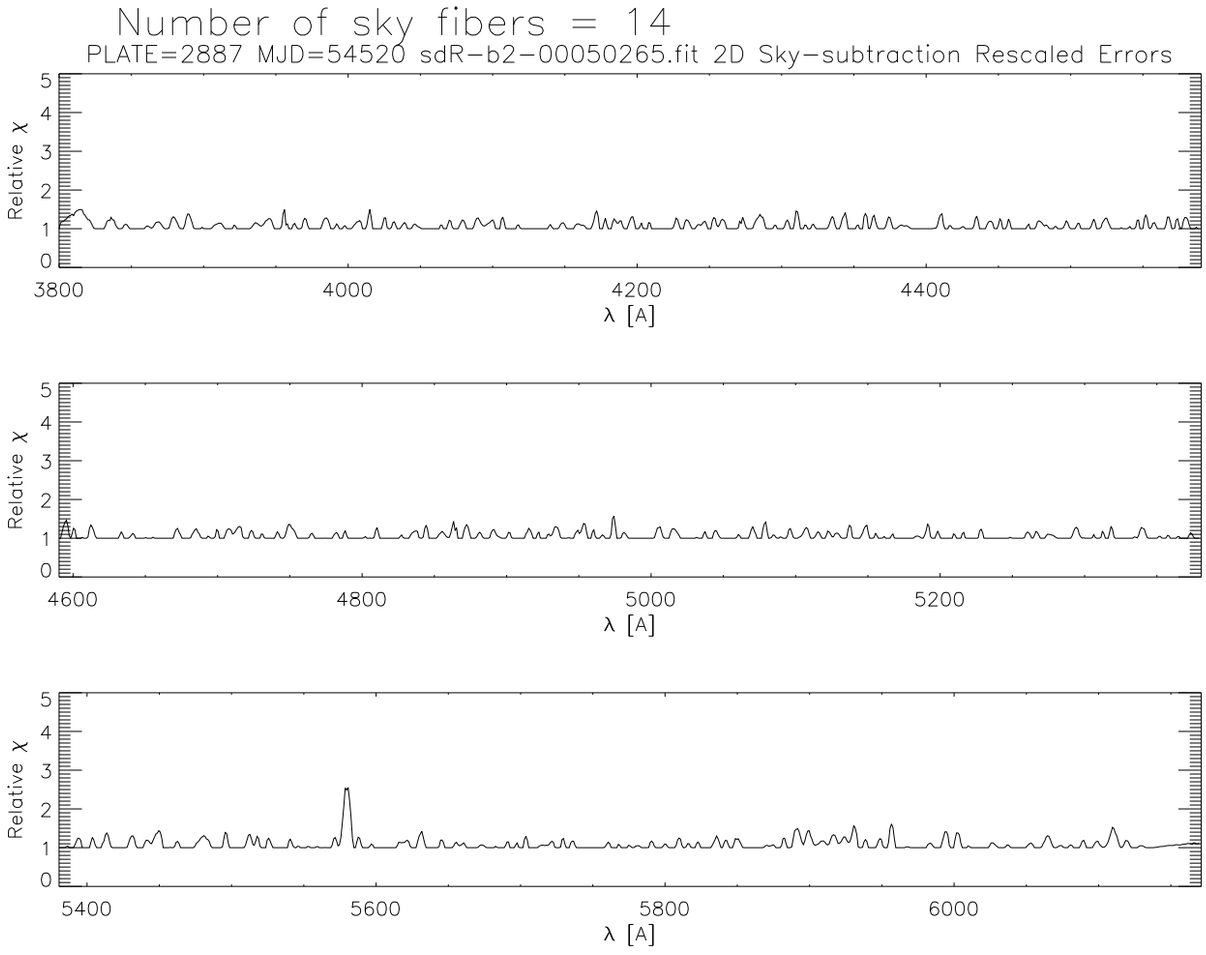

PLATE=2887 MJD=54520 sdR-b2-00050265.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

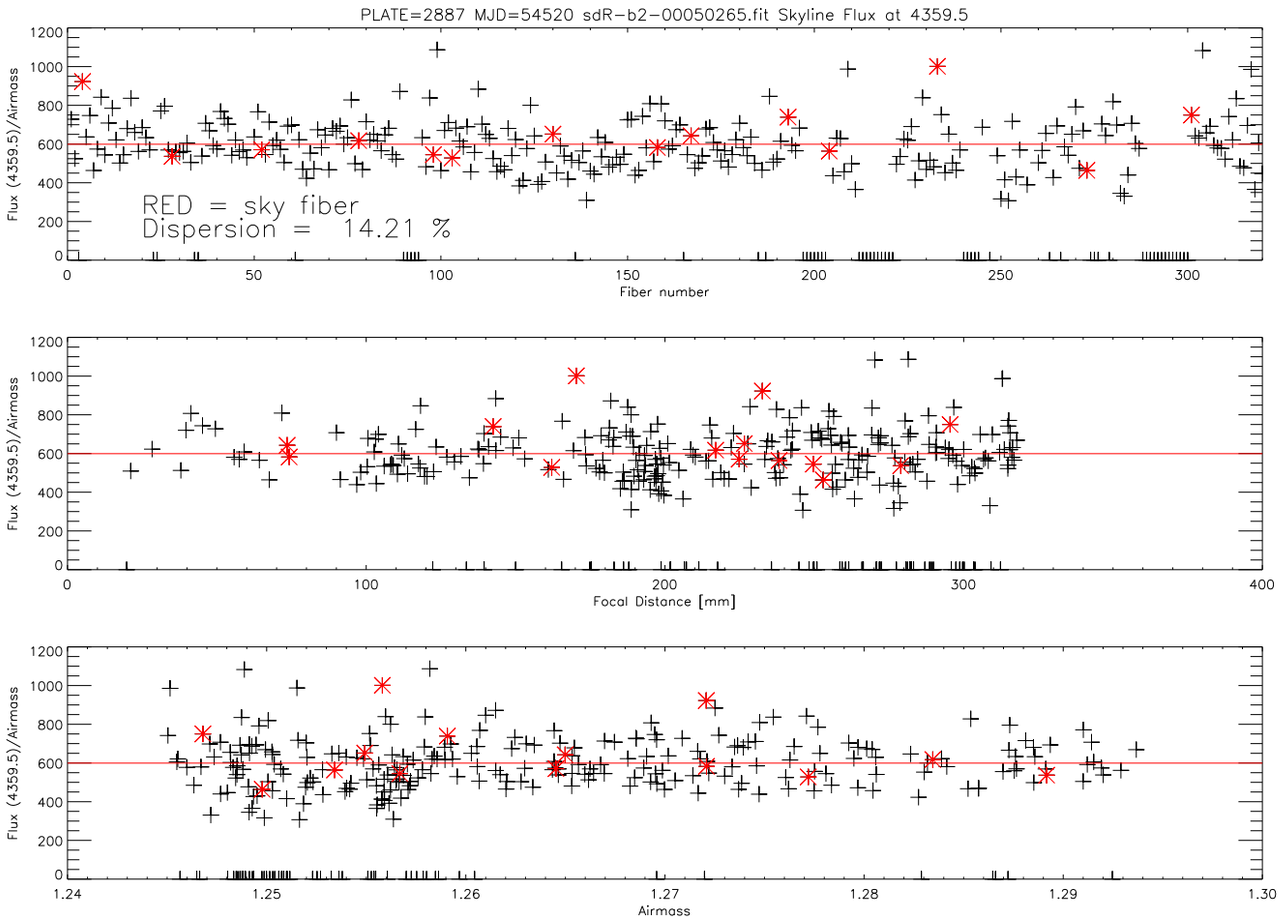

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-b2-00050265.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

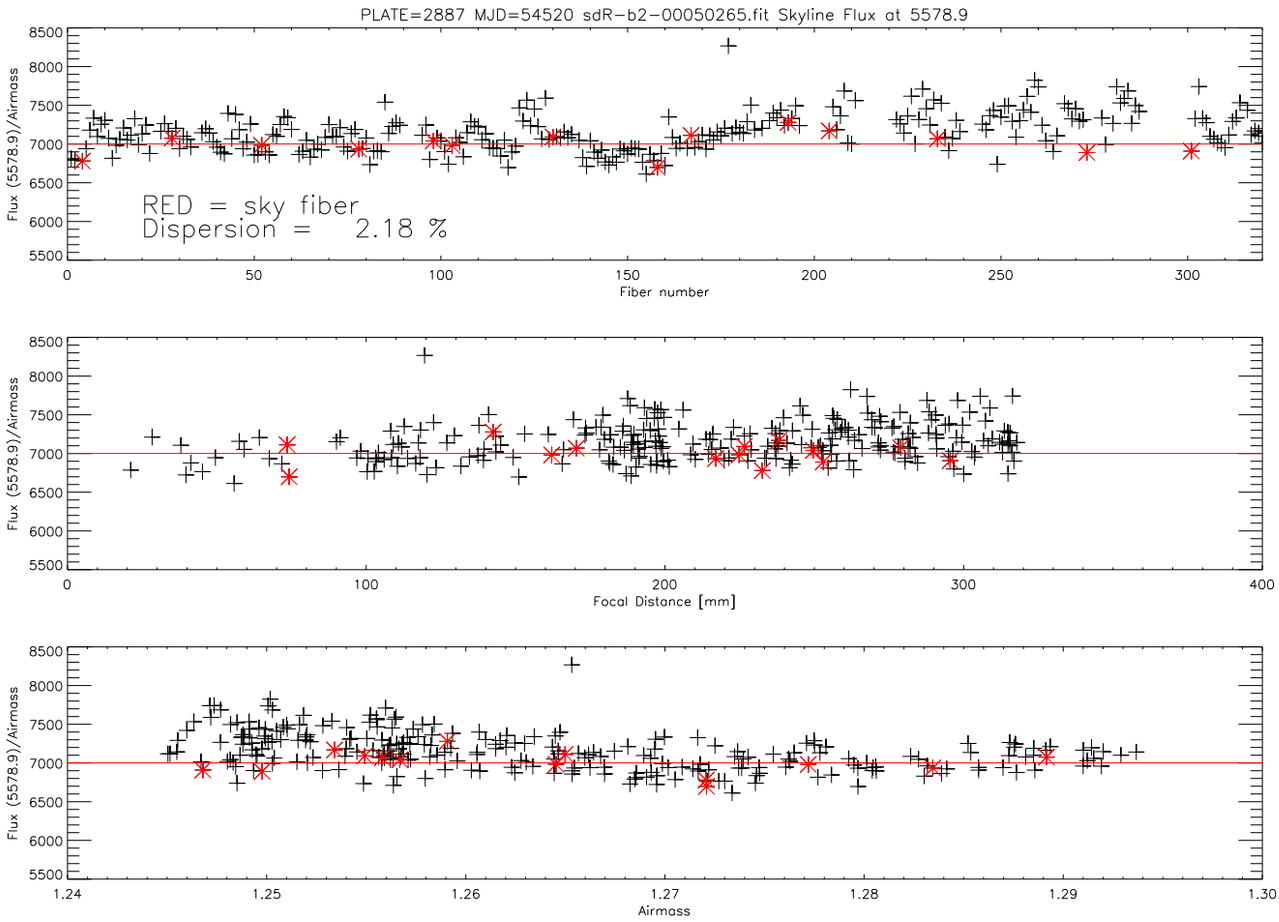

PLATE=2887 MJD=54520 sdR-b2-00050265.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

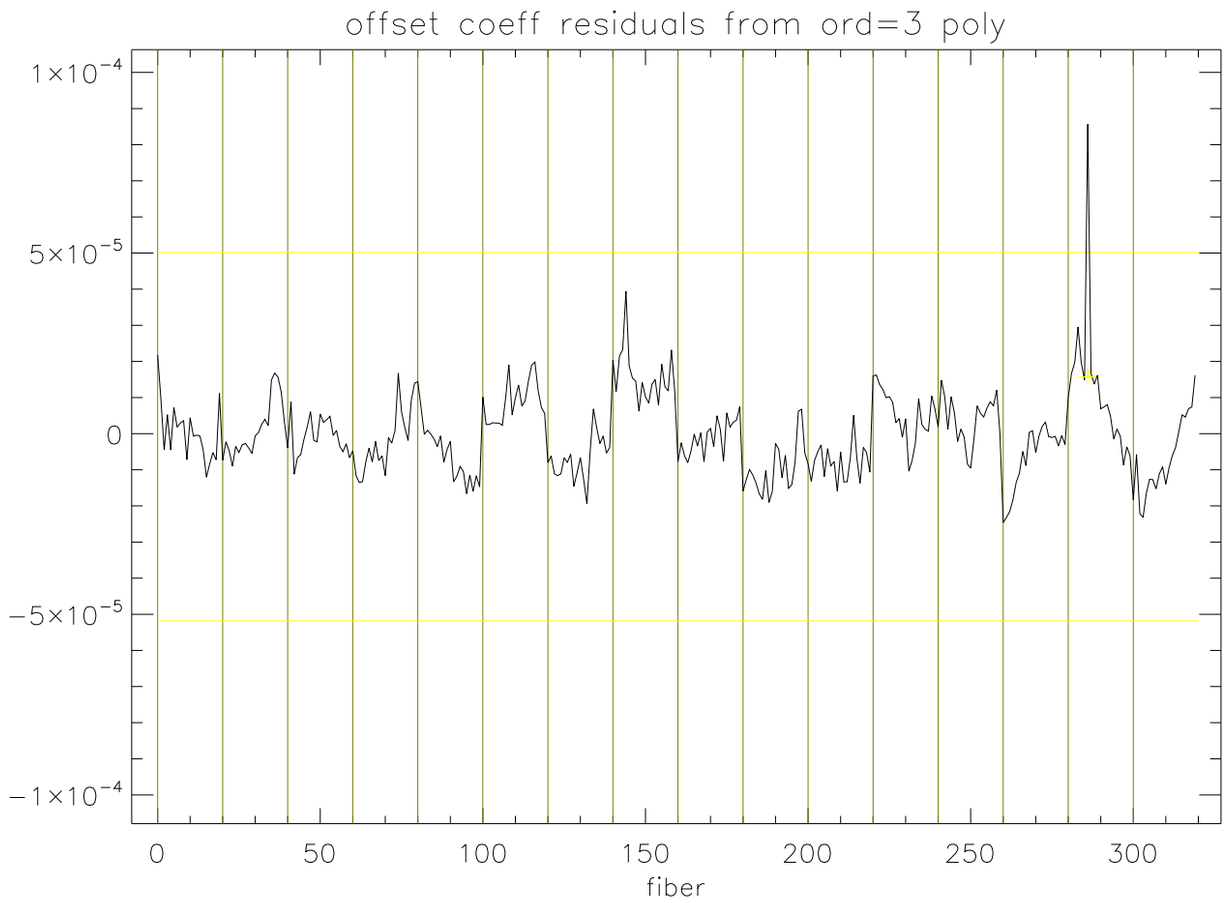

PLATE=2887 MJD=54520 sdR-b2-00050265.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

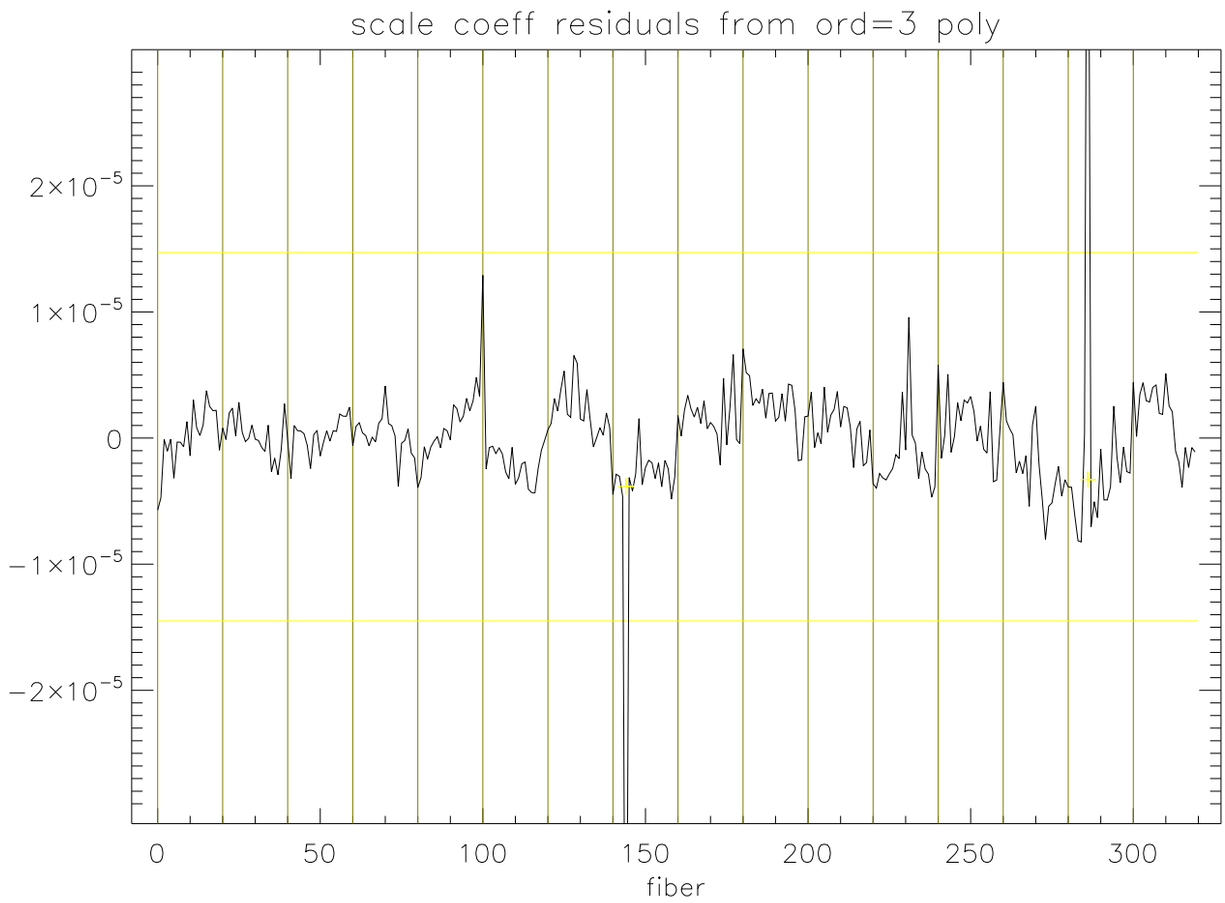

PLATE=2887 MJD=54520 sdR-b2-00050265.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
5570
5575
5580
5585
5590
λ [A]

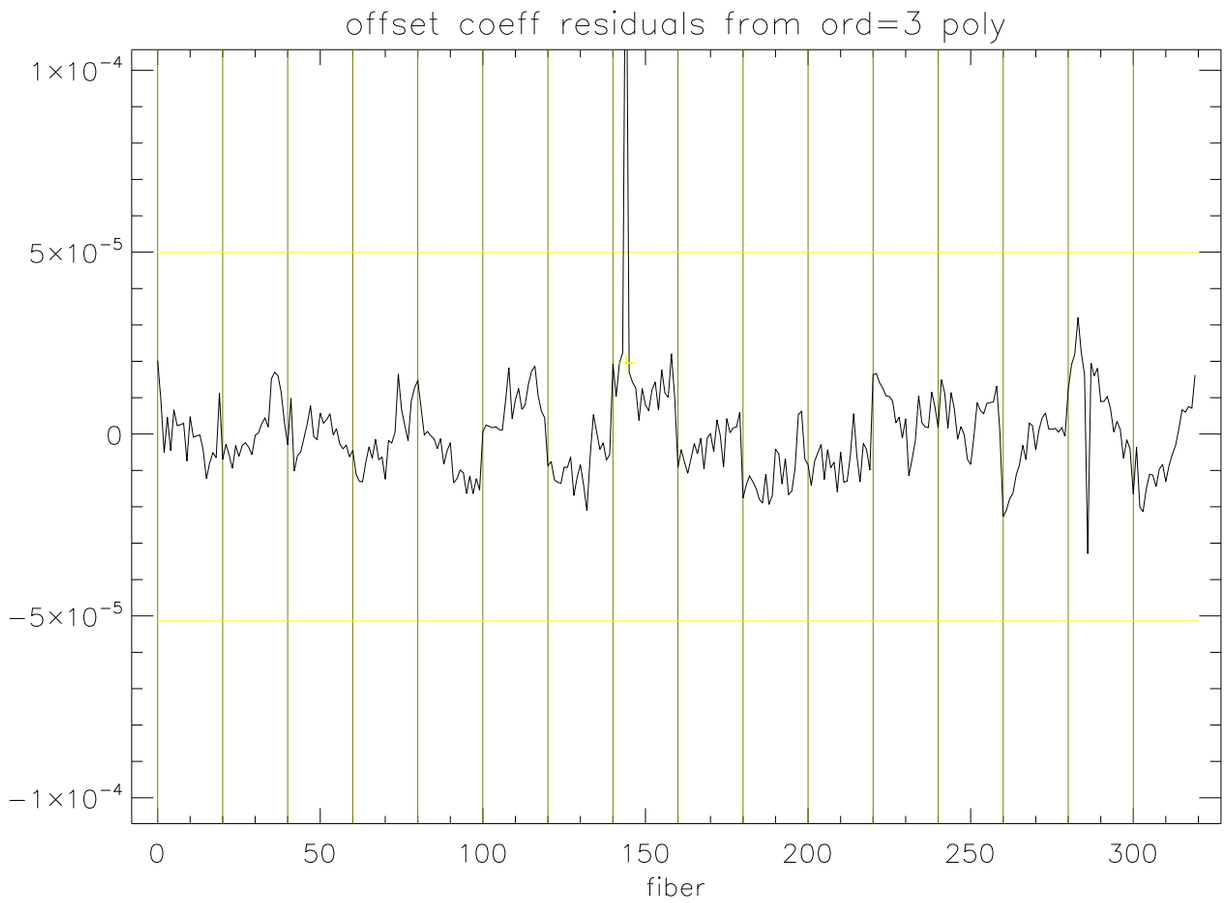

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-b2-00050265.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
0
1
2
3
4
5

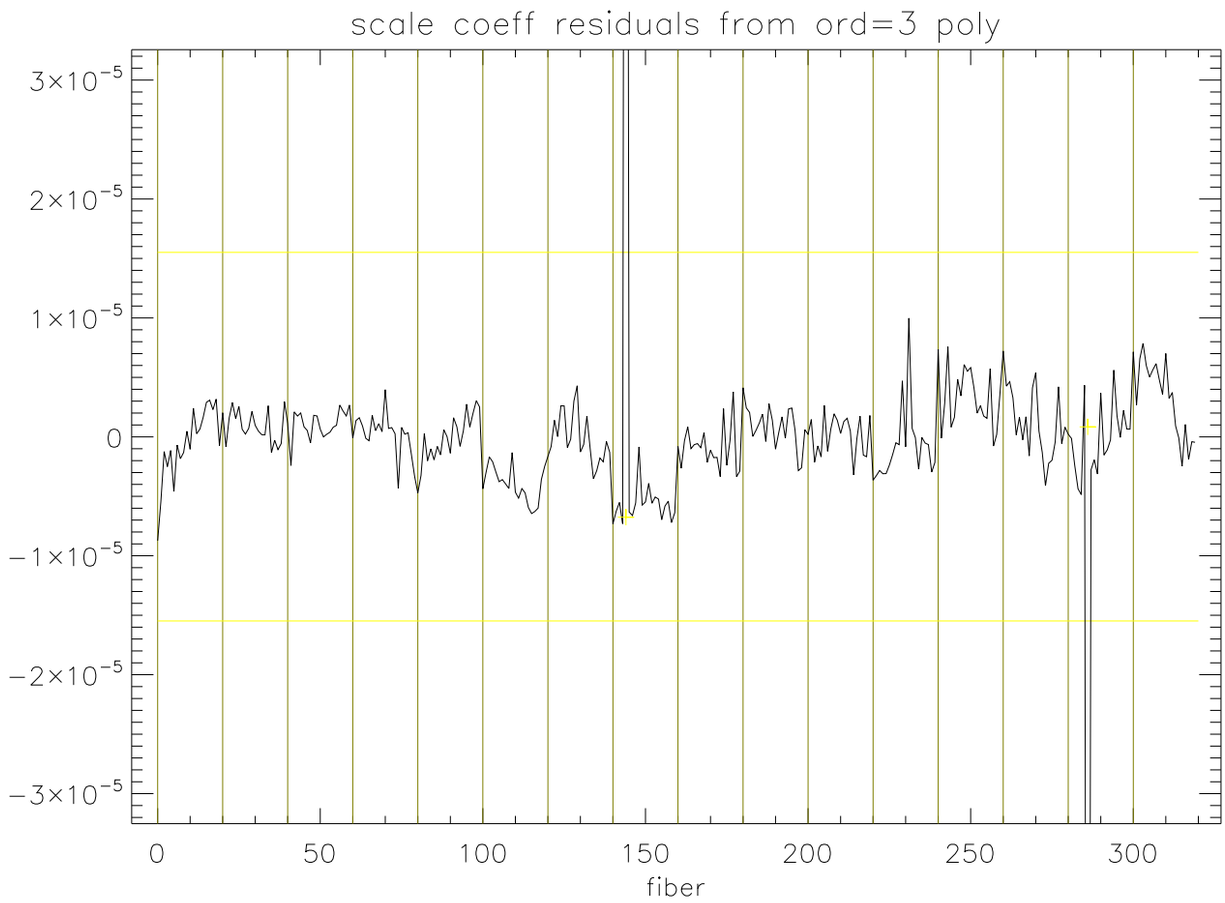

PLATE=2887 MJD=54520 sdR-b2-00050265.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 14.21 %
Fiber number
Flux (4359.5)/Airmass
Focal Distance [mm]
Flux (4359.5)/Airmass
Airmass

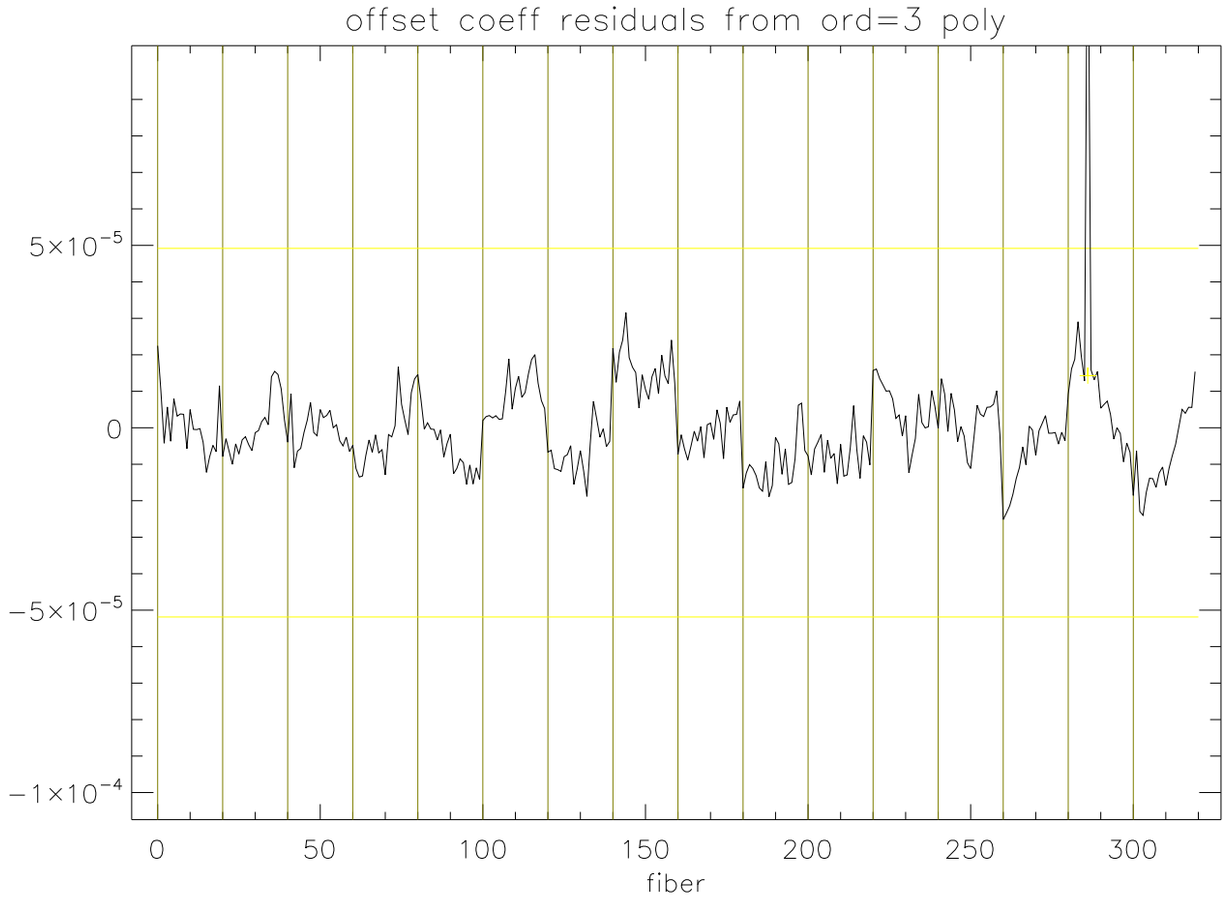

PLATE=2887 MJD=54520 sdR-b2-00050265.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
RED = sky fiber
Dispersion = 2.18 %
Fiber number
Focal Distance [mm]
Airmass

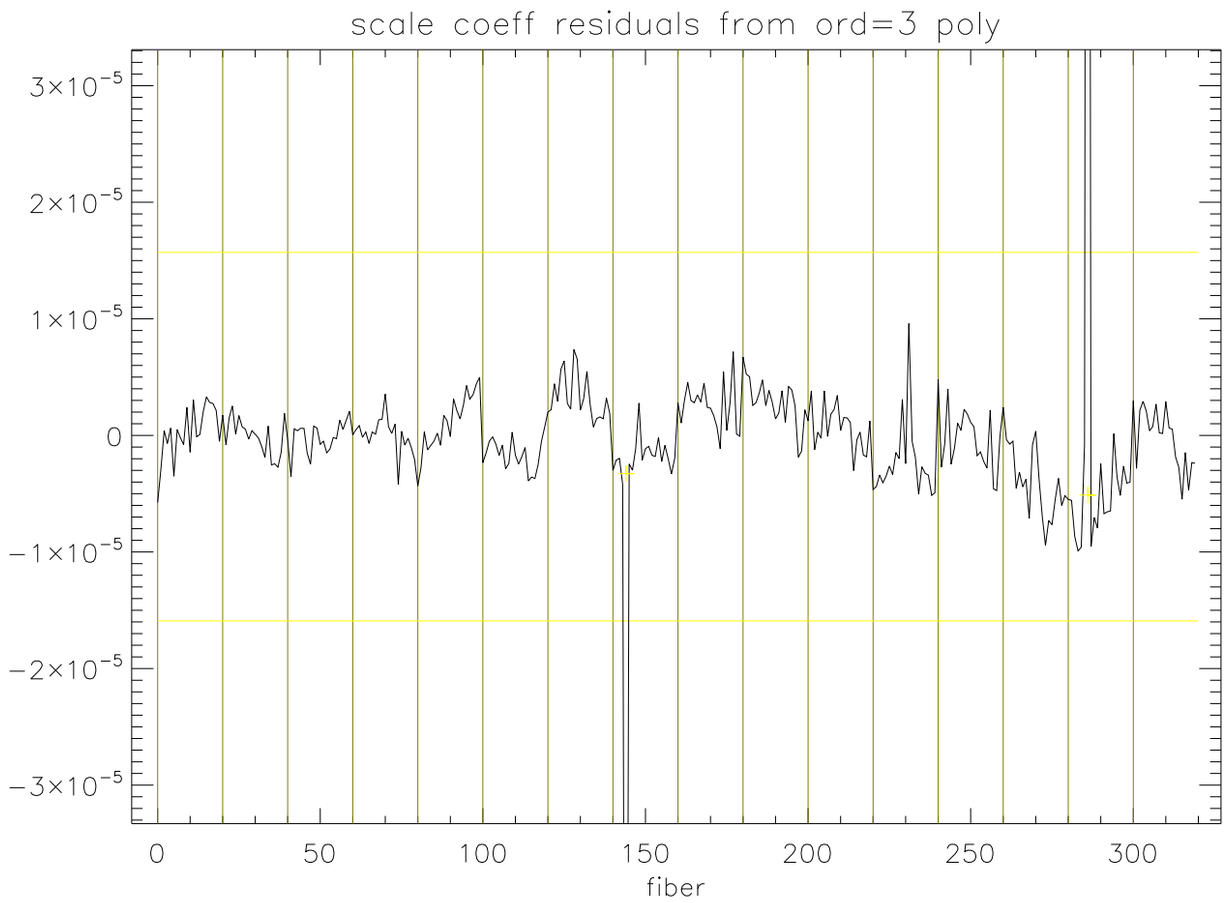

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

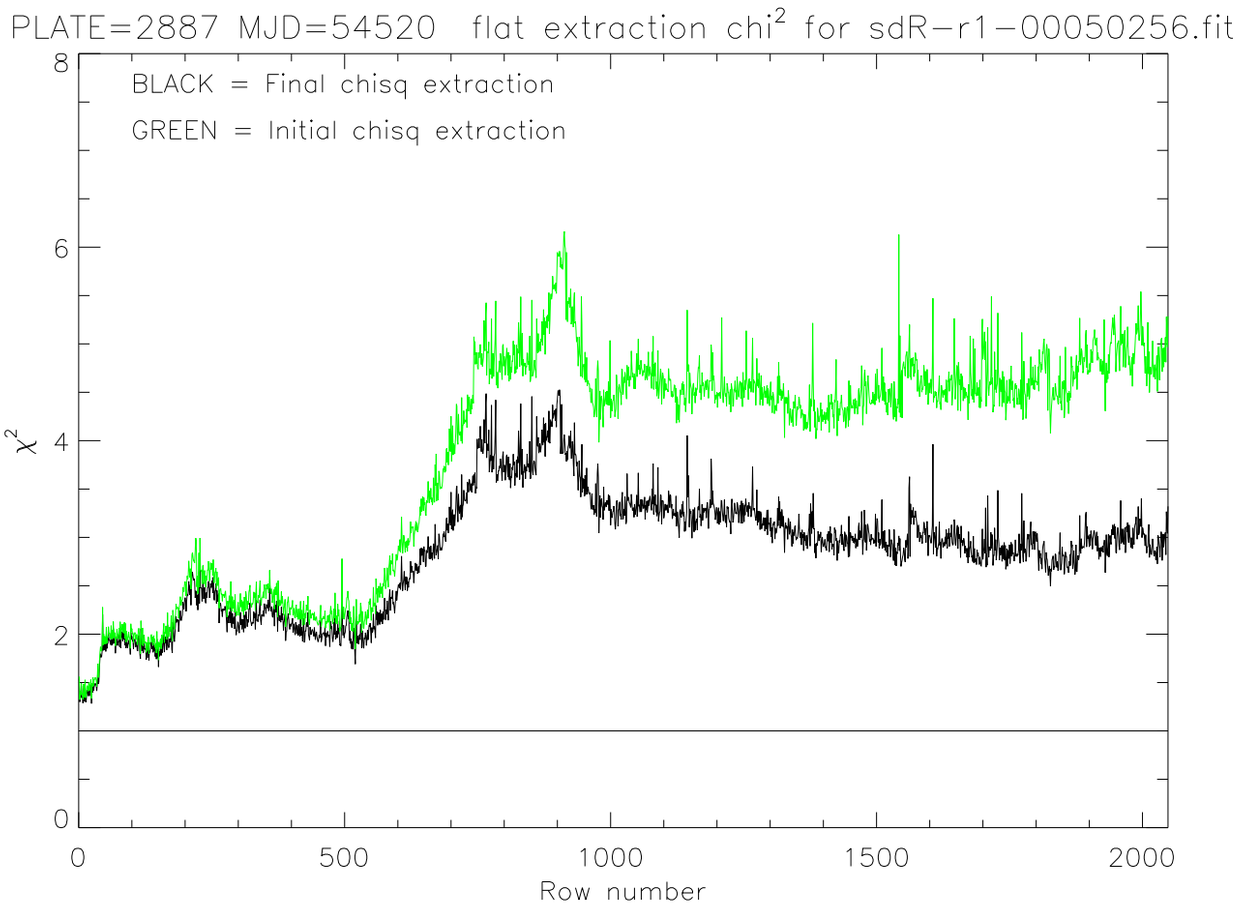

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

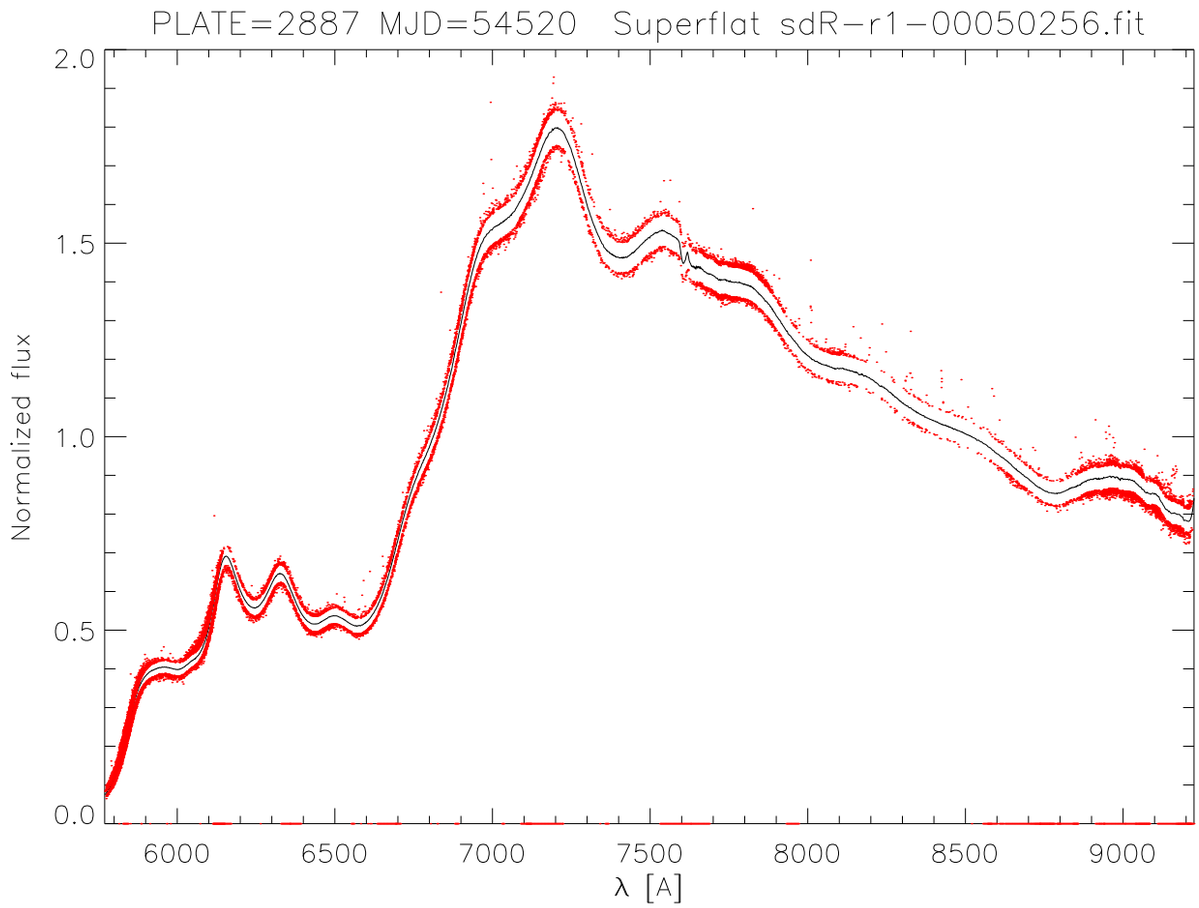

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

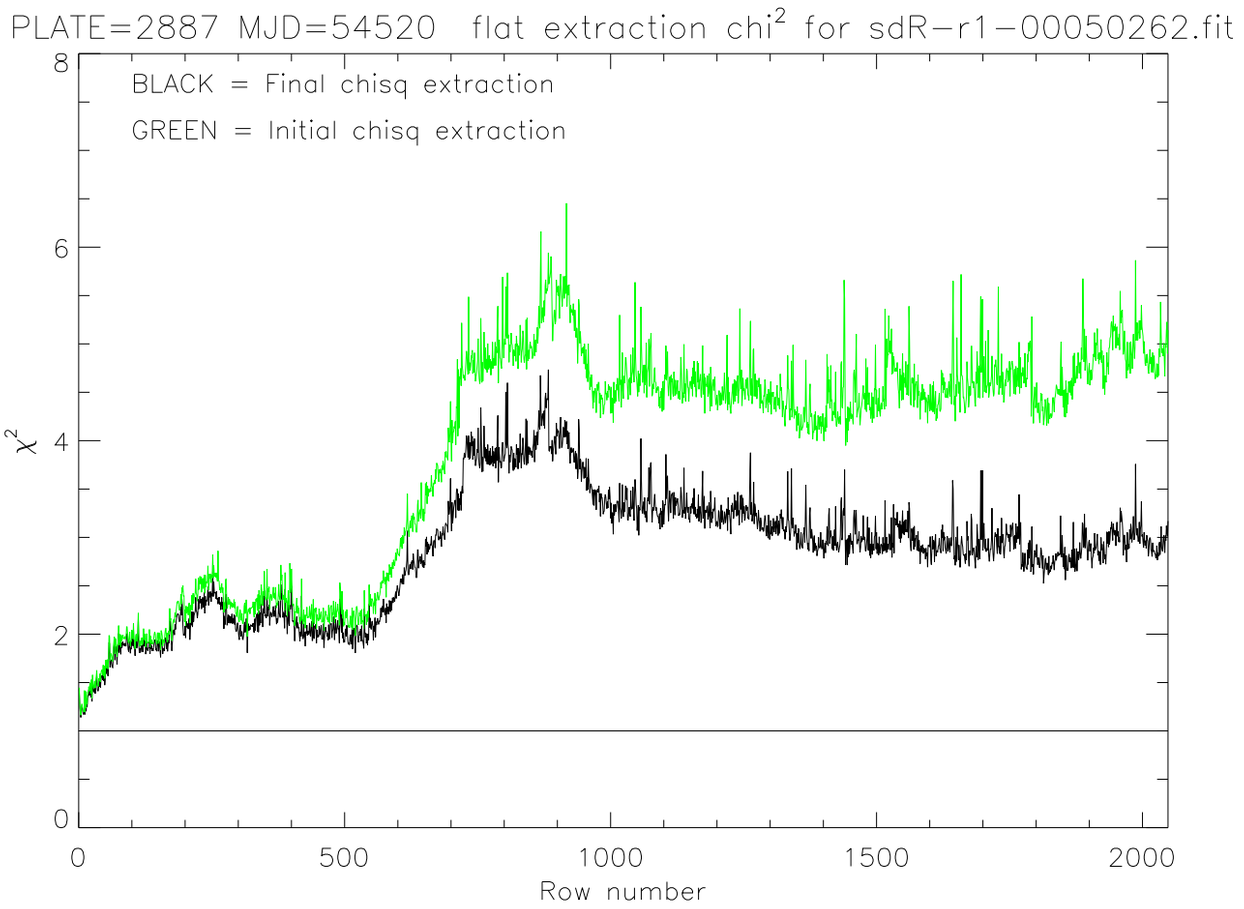

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

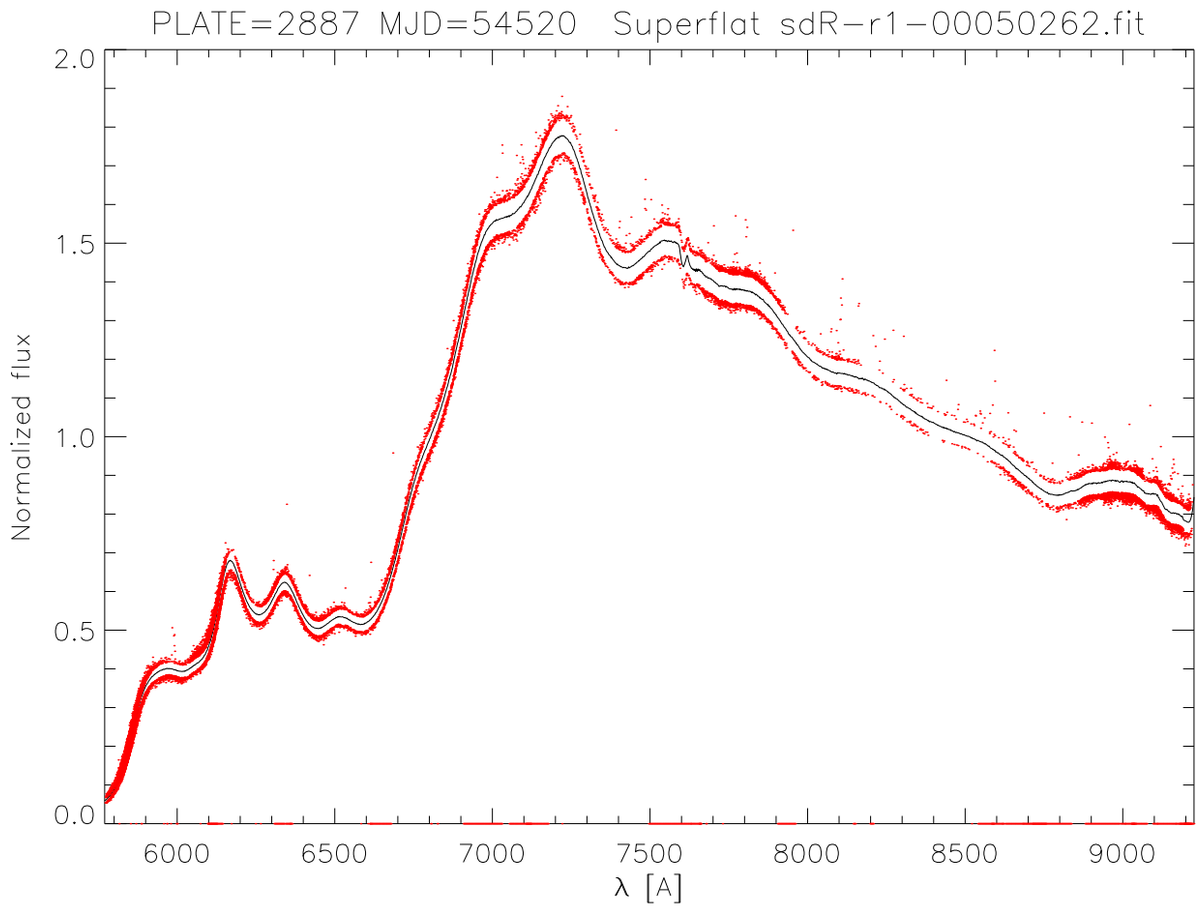

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

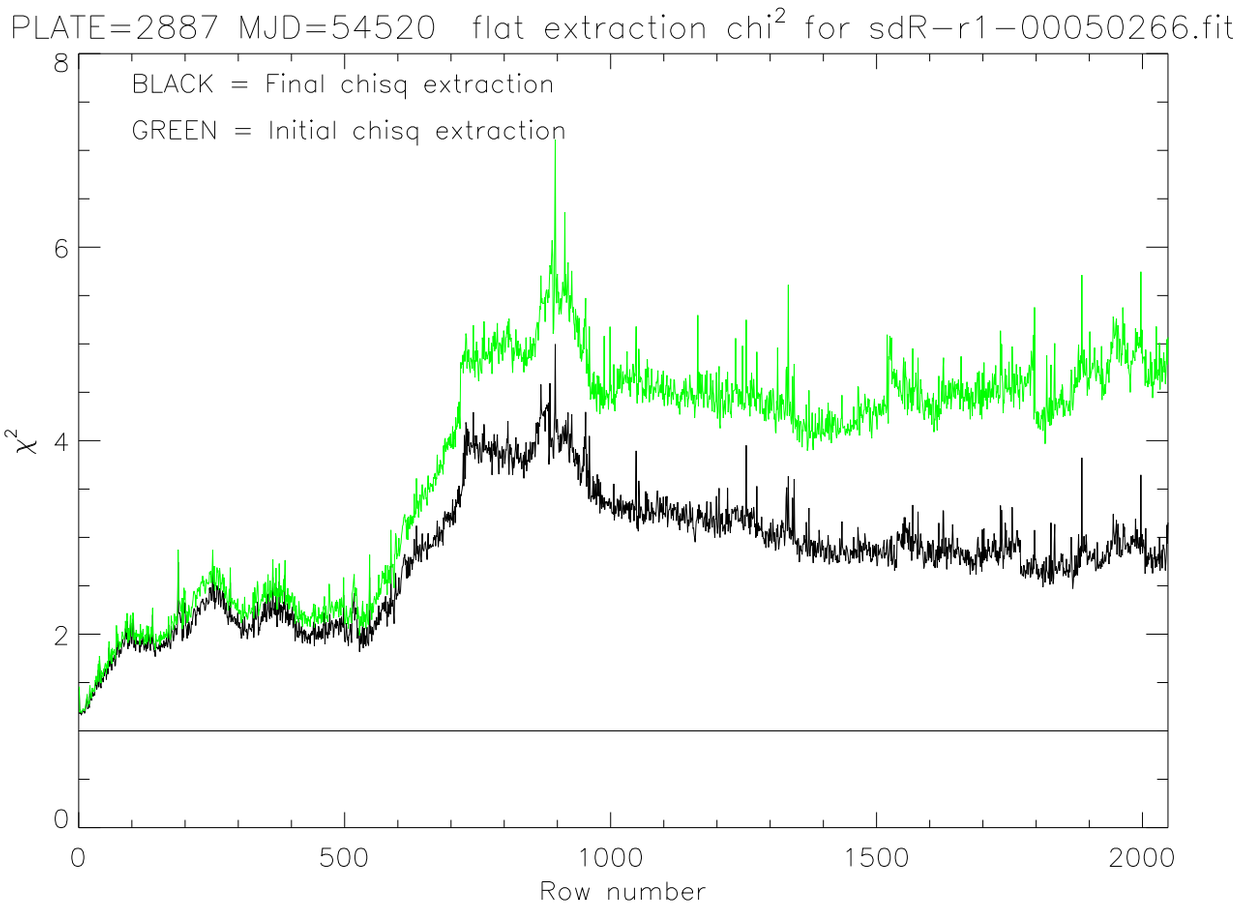

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

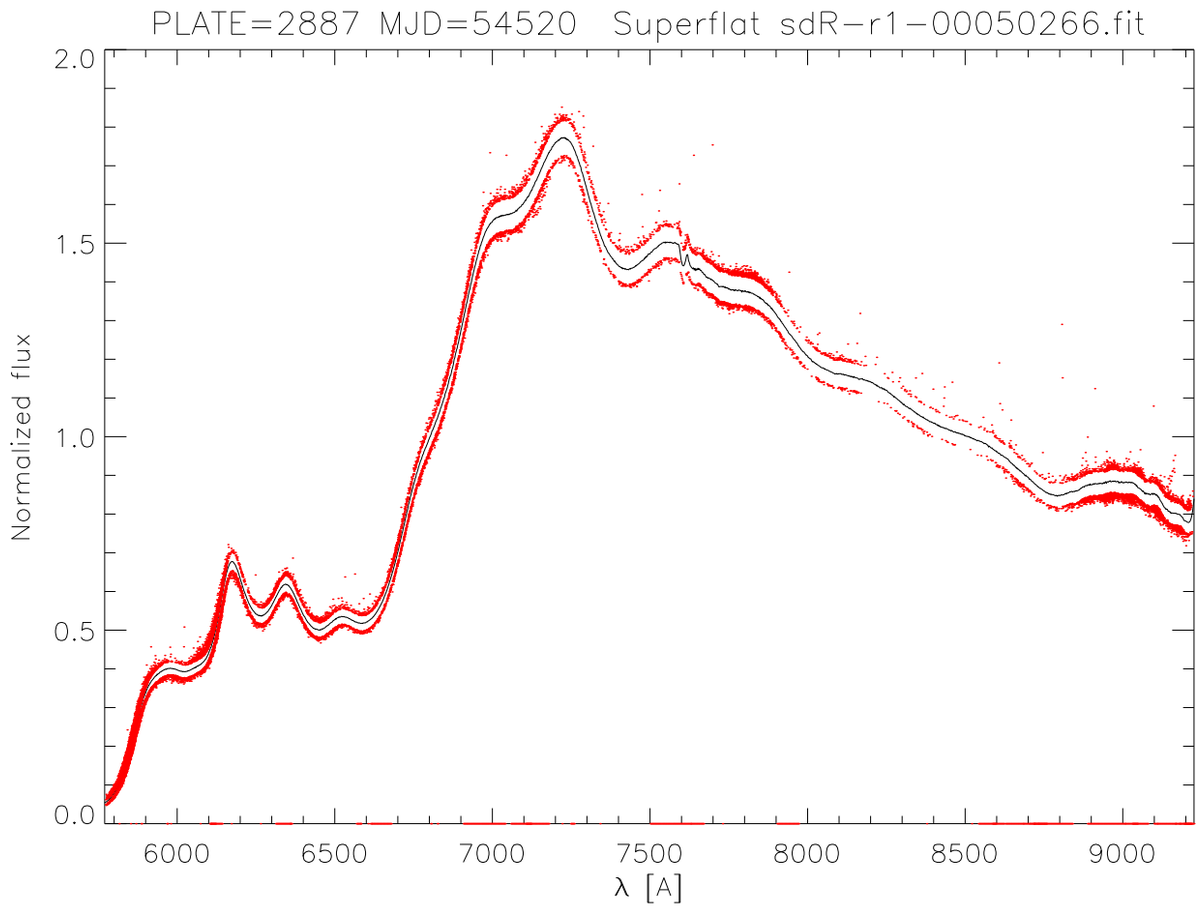

PLATE=2887 MJD=54520 flat extraction chi^2 for sdR-r1-00050256.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
2
4
6
8
0
500
1000
1500
2000

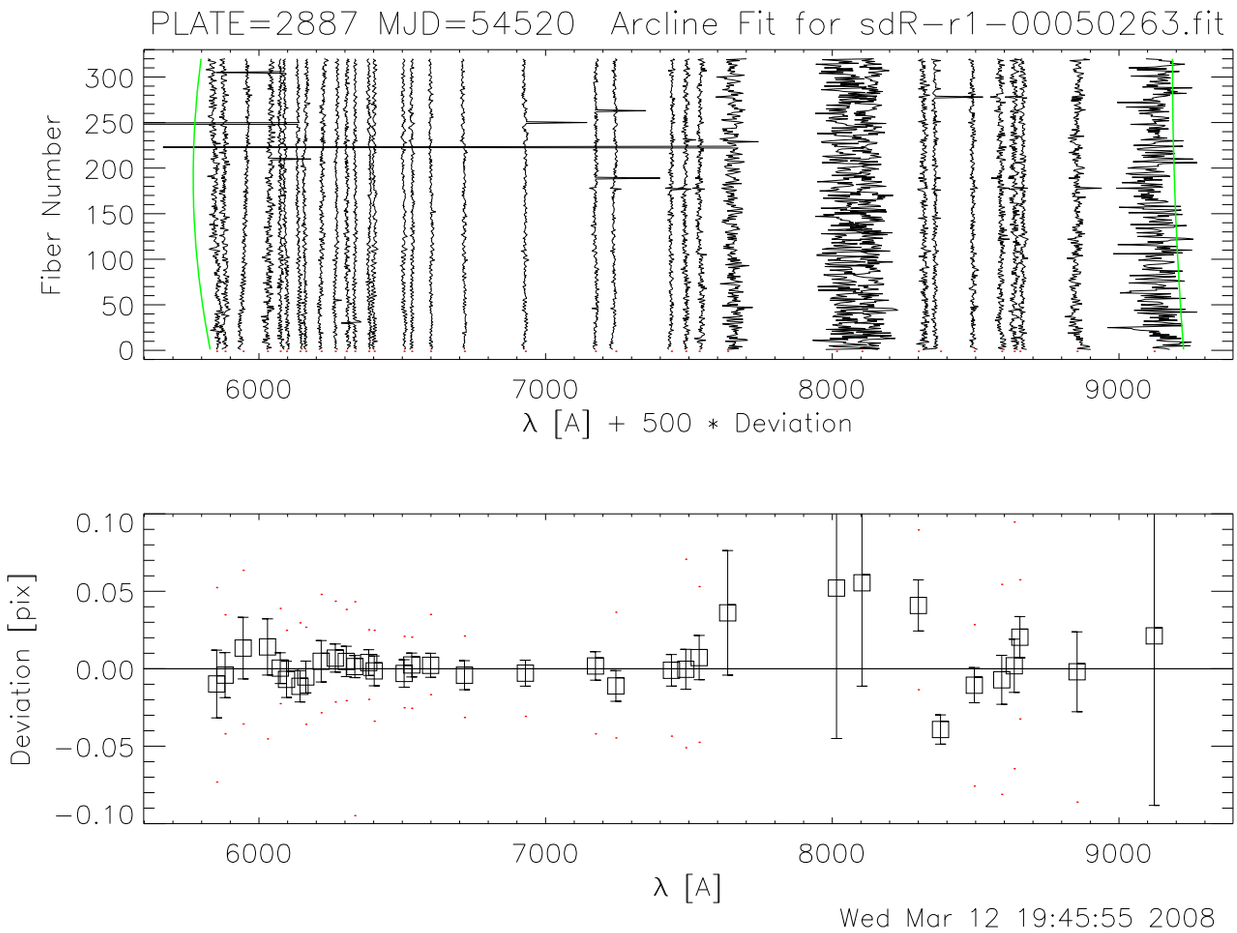

PLATE=2887 MJD=54520 Superflat sdR-r1-00050256.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

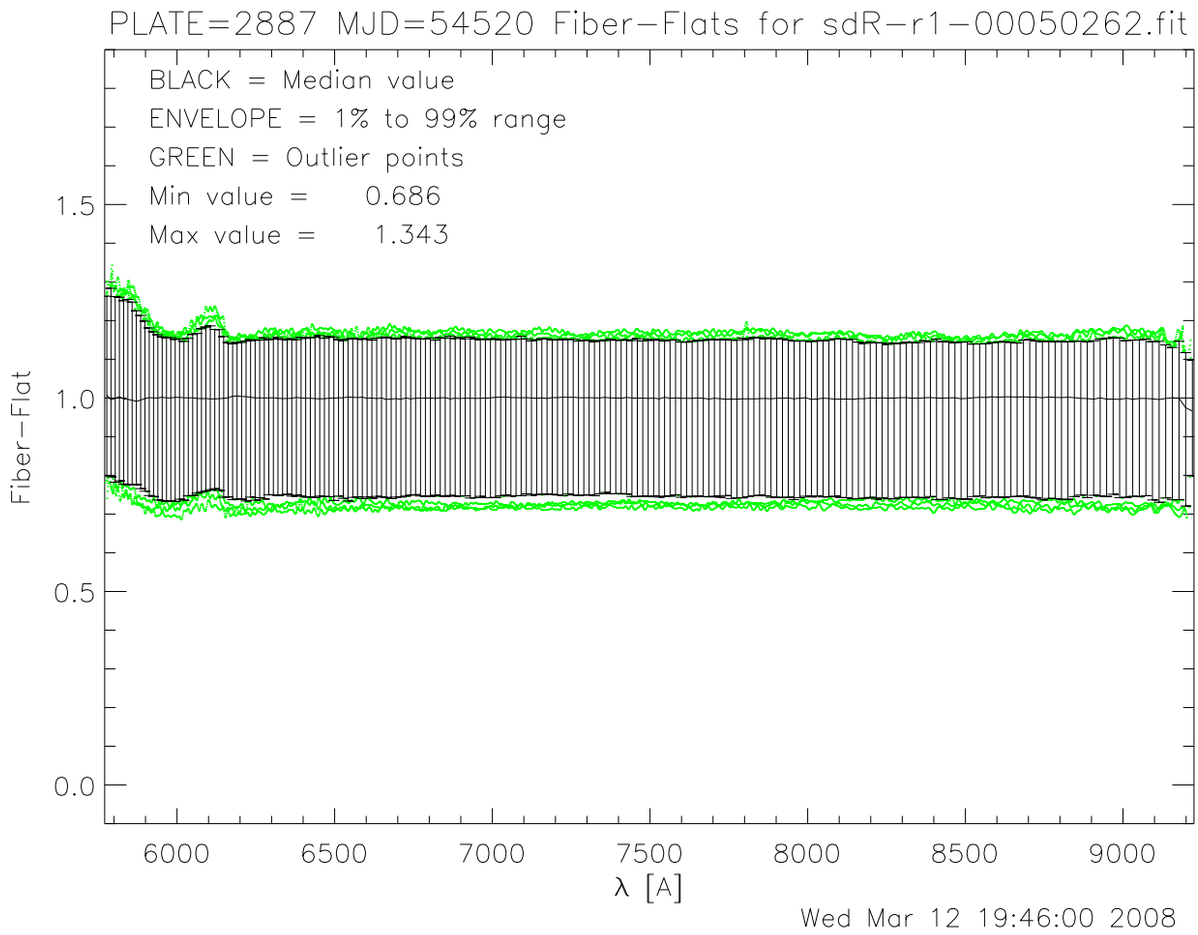

PLATE=2887 MJD=54520 flat extraction chi² for sdR-r1-00050262.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ²
Row number
0
2
4
6
8
0
500
1000
1500
2000

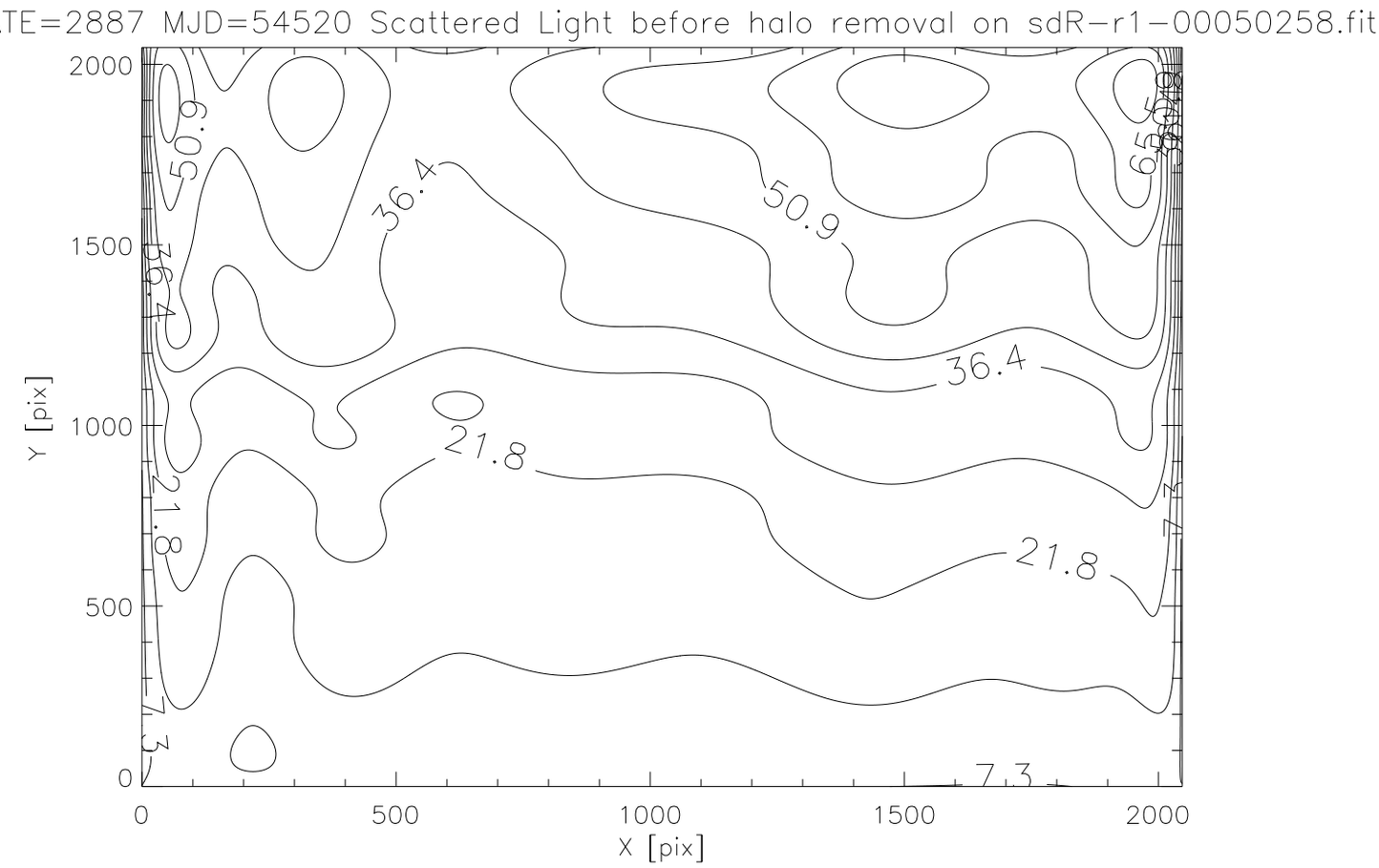

PLATE=2887 MJD=54520 Superflat sdR-r1-00050262.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

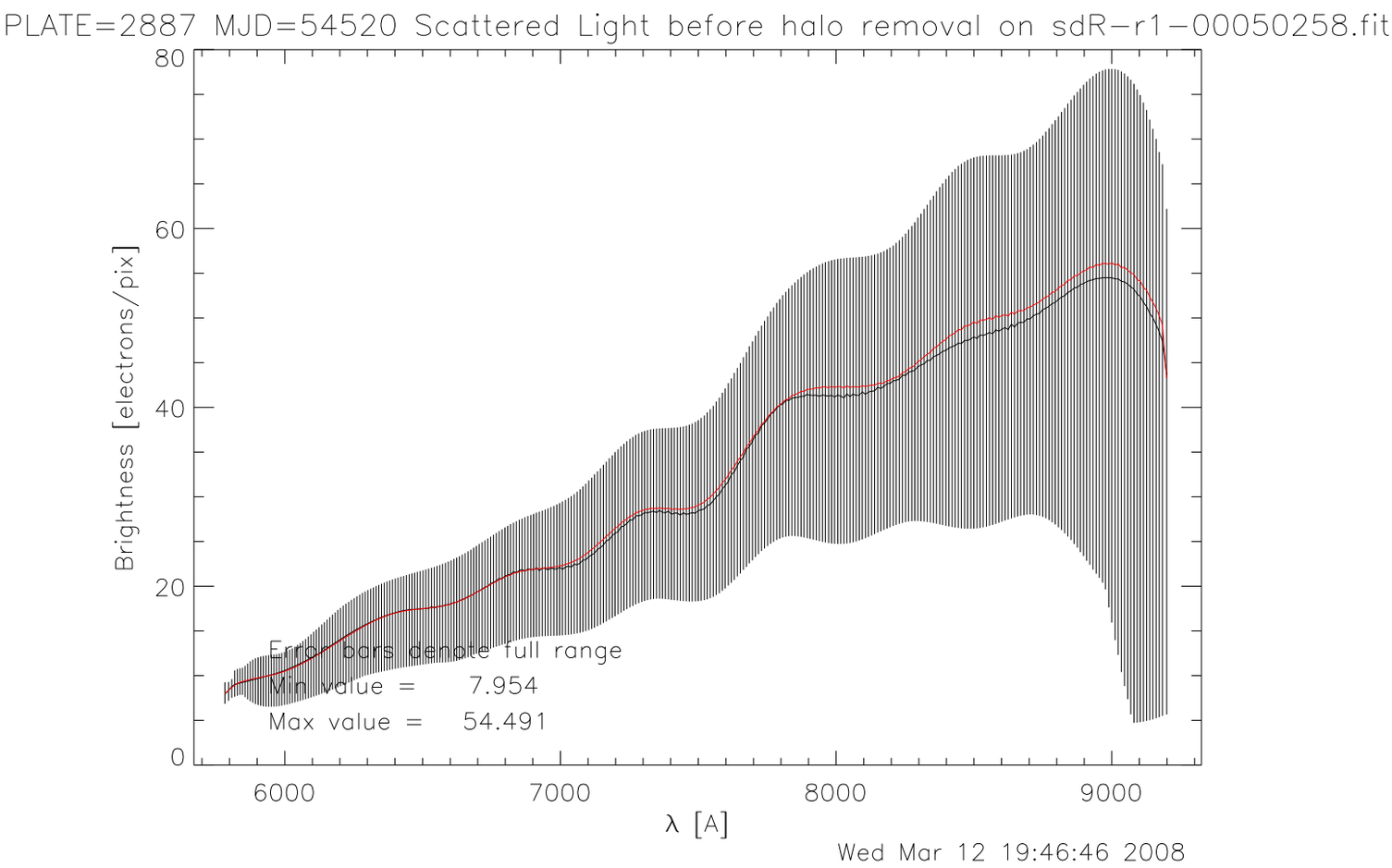

PLATE=2887 MJD=54520 flat extraction chi² for sdR-r1-00050266.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ²
Row number
0
2
4
6
8
0
500
1000
1500
2000

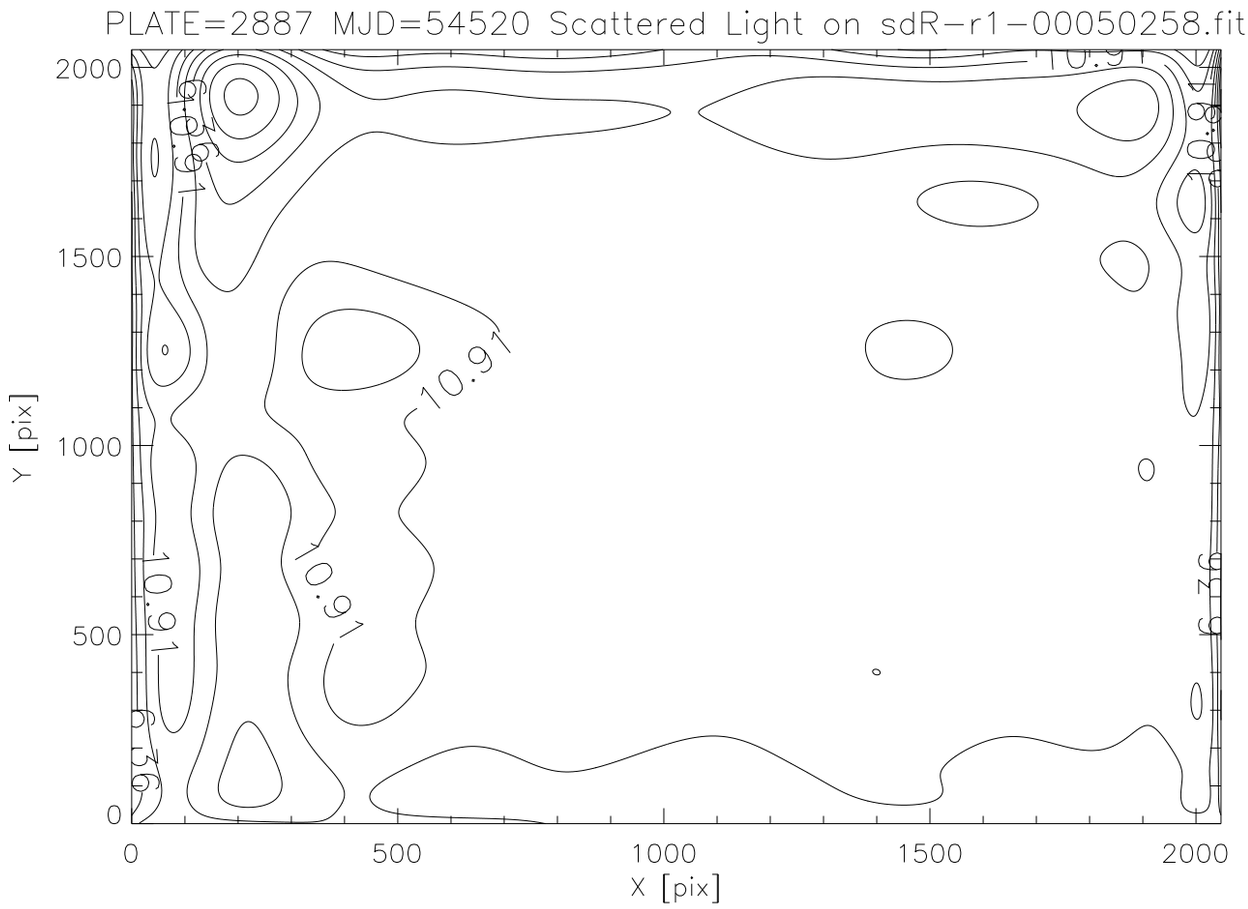

PLATE=2887 MJD=54520 Superflat sdR-r1-00050266.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

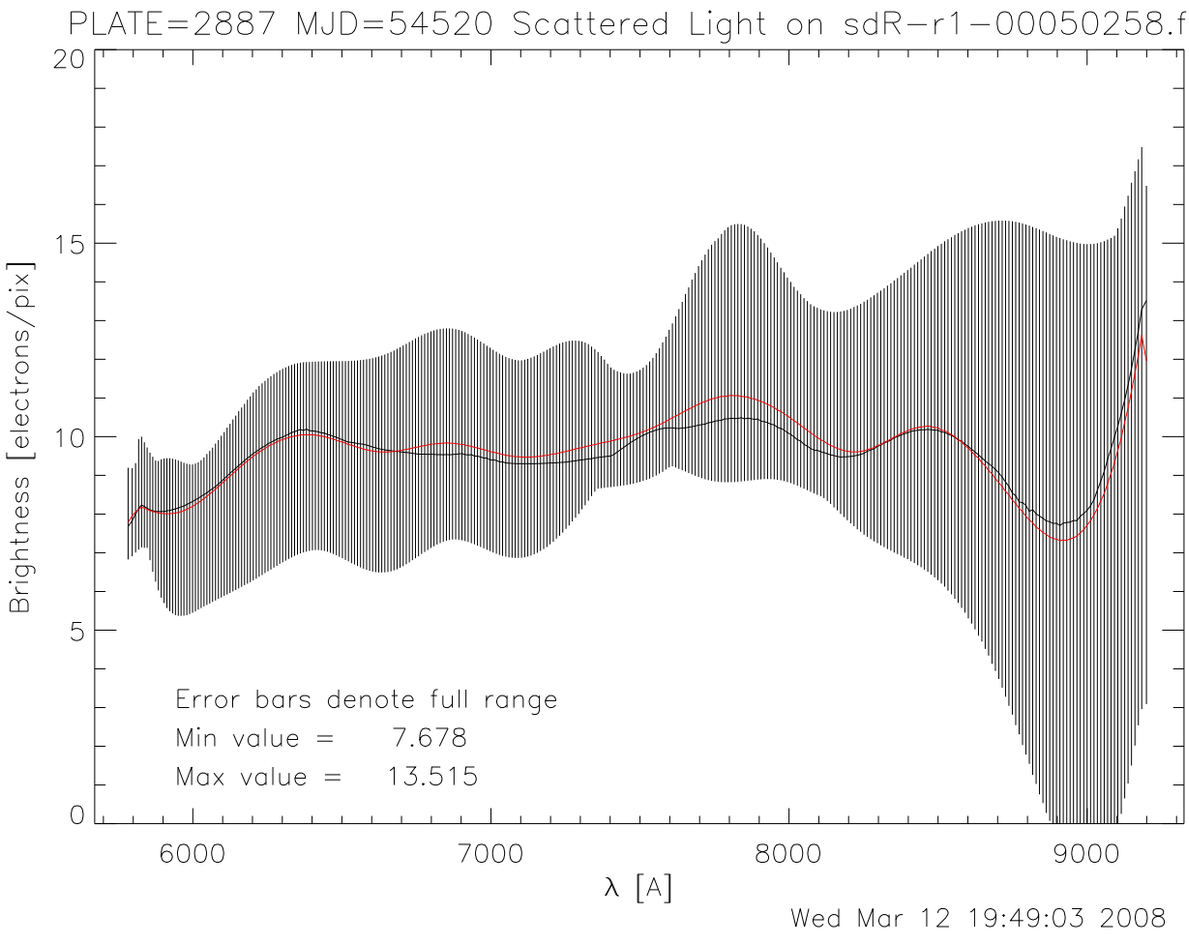

PLATE=2887 MJD=54520 Arcline Fit for sdR-r1-00050263.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Wed Mar 12 19:45:55 2008

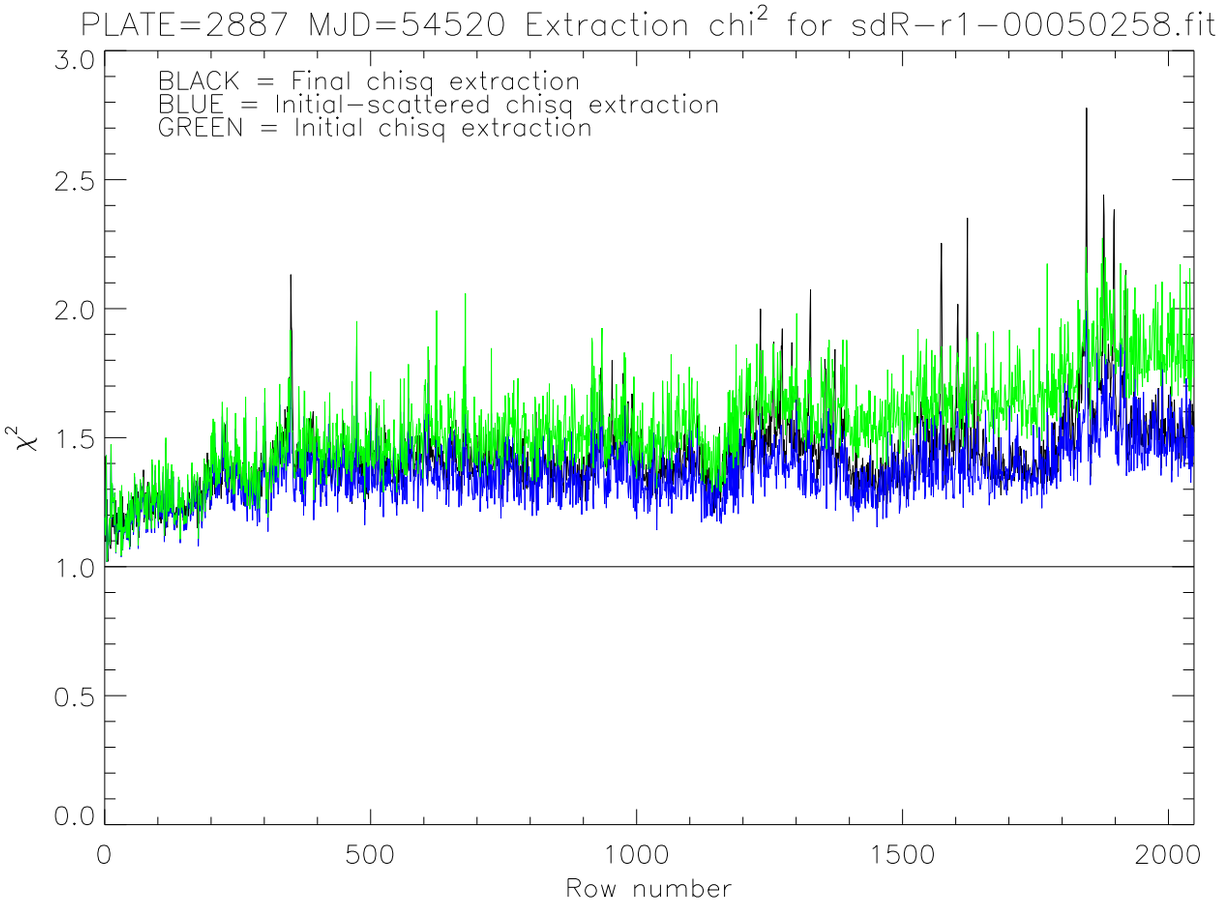

PLATE=2887 MJD=54520 Fiber-Flats for sdR-r1-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.686
Max value = 1.343
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 19:46:00 2008

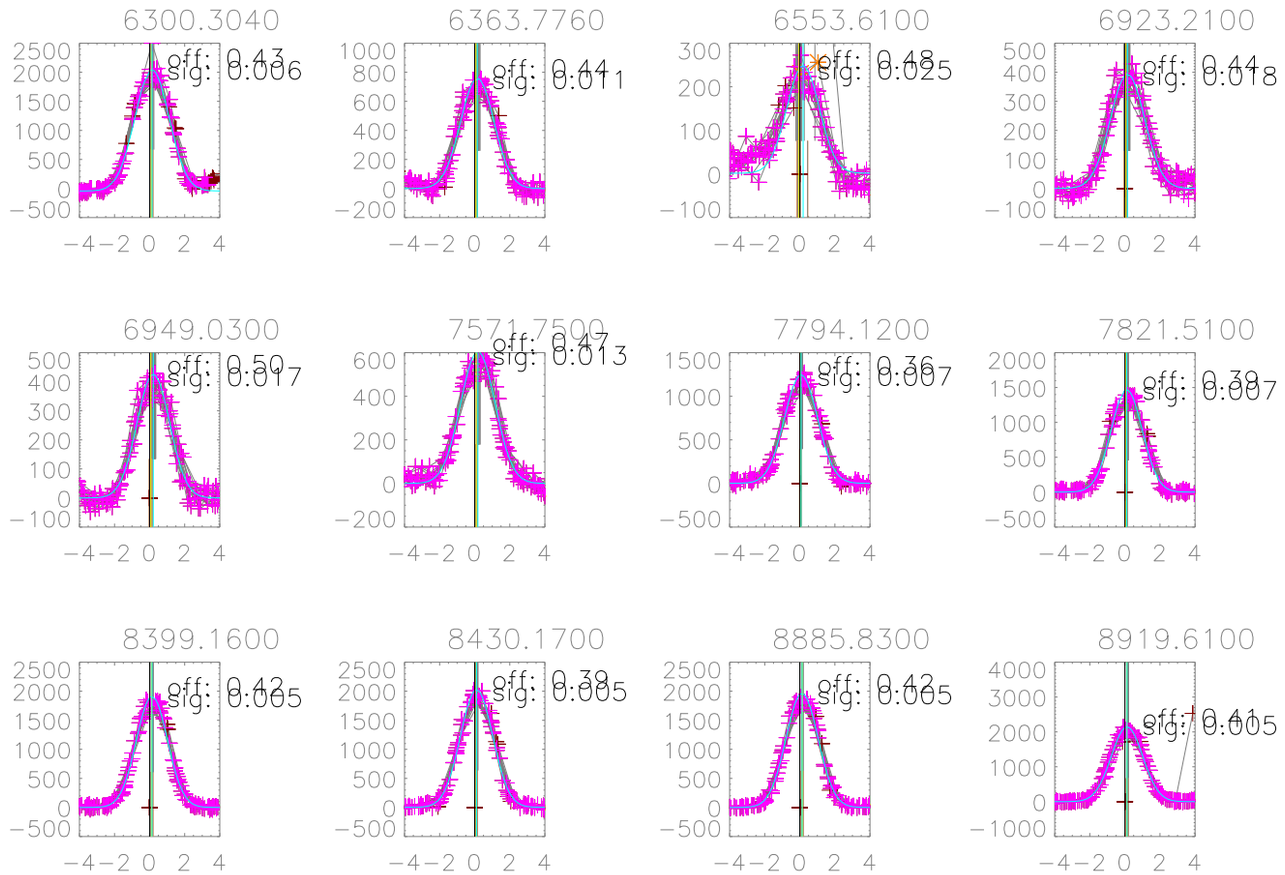

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r1-00050258.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
6.05
36.4
50.9
21.8
7.3

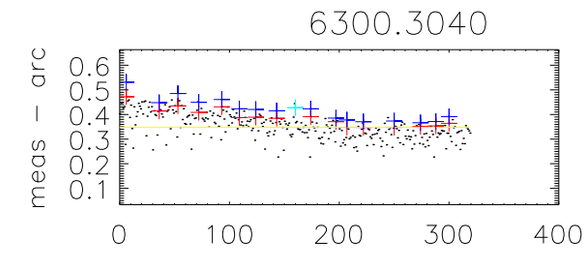

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r1-00050258.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.954
Max value = 54.491
Wed Mar 12 19:46:46 2008

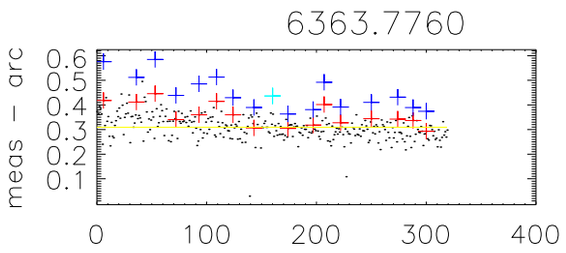

PLATE=2887 MJD=54520 Scattered Light on sdR-r1-00050258.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
10.91
9.36
0

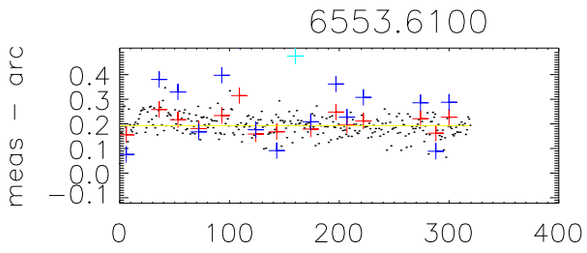

PLATE=2887 MJD=54520 Scattered Light on sdR-r1-00050258.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.678
Max value = 13.515
Wed Mar 12 19:49:03 2008

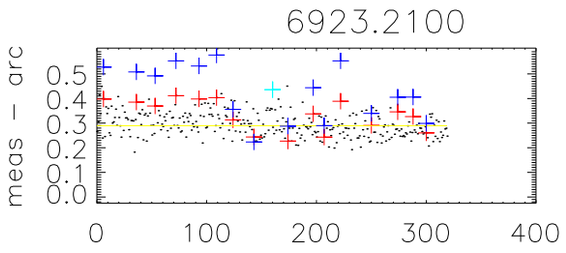

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-r1-00050258.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

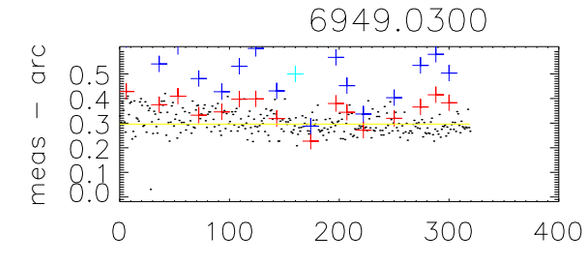

6300.3040
off: 0.43
sig: 0.006
6363.7760
off: 0.44
sig: 0.011
6553.6100
off: 0.48
sig: 0.025
6923.2100
off: 0.44
sig: 0.018
6949.0300
off: 0.50
sig: 0.017
7571.7500
off: 0.47
sig: 0.013
7794.1200
off: 0.36
sig: 0.007
7821.5100
off: 0.39
sig: 0.007
8399.1600
off: 0.42
sig: 0.005
8430.1700
off: 0.39
sig: 0.005
8885.8300
off: 0.42
sig: 0.005
8919.6100
off: 0.41
sig: 0.005

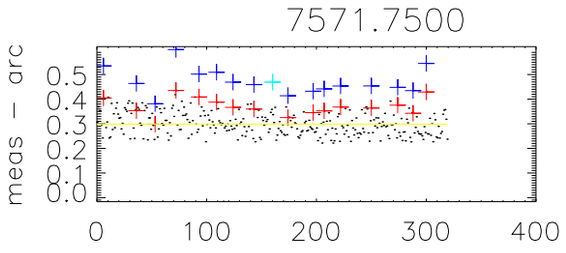

6300.3040
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

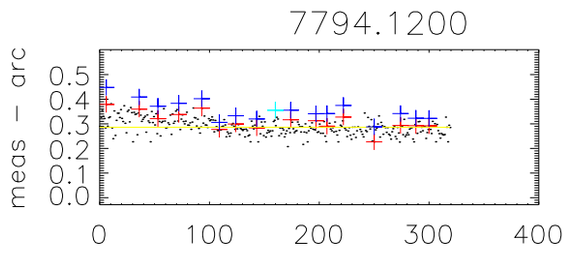

6363.7760
meas − arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

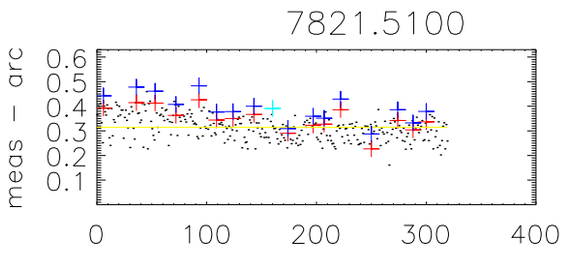

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

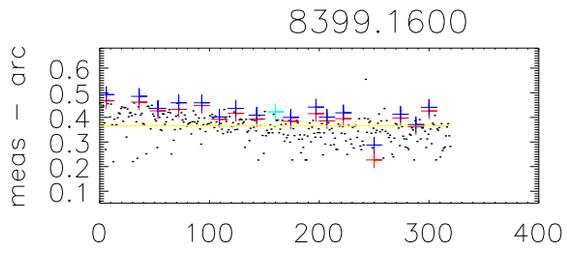

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

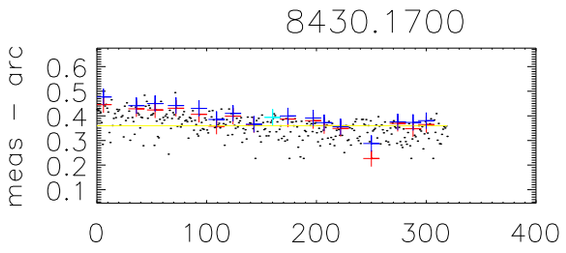

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

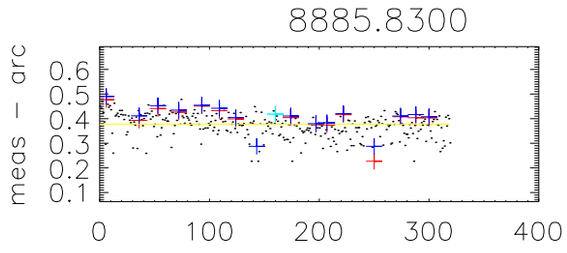

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

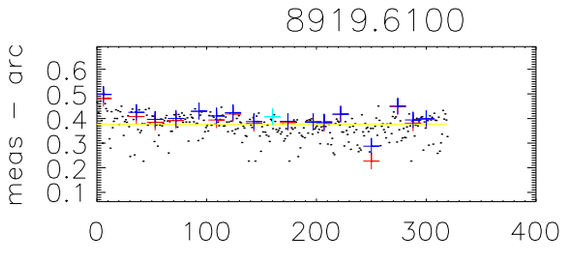

7794.1200
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

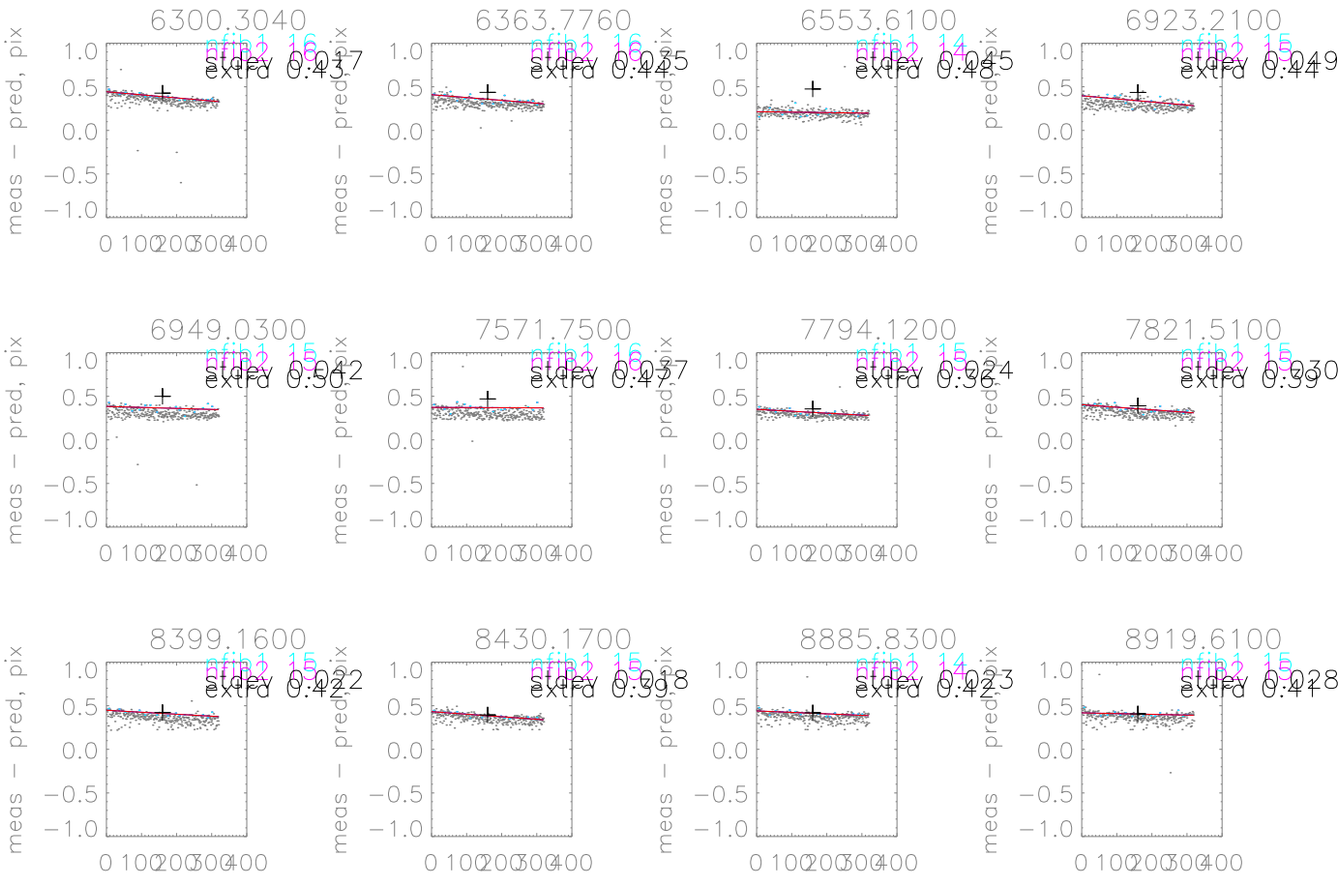

7821.5100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

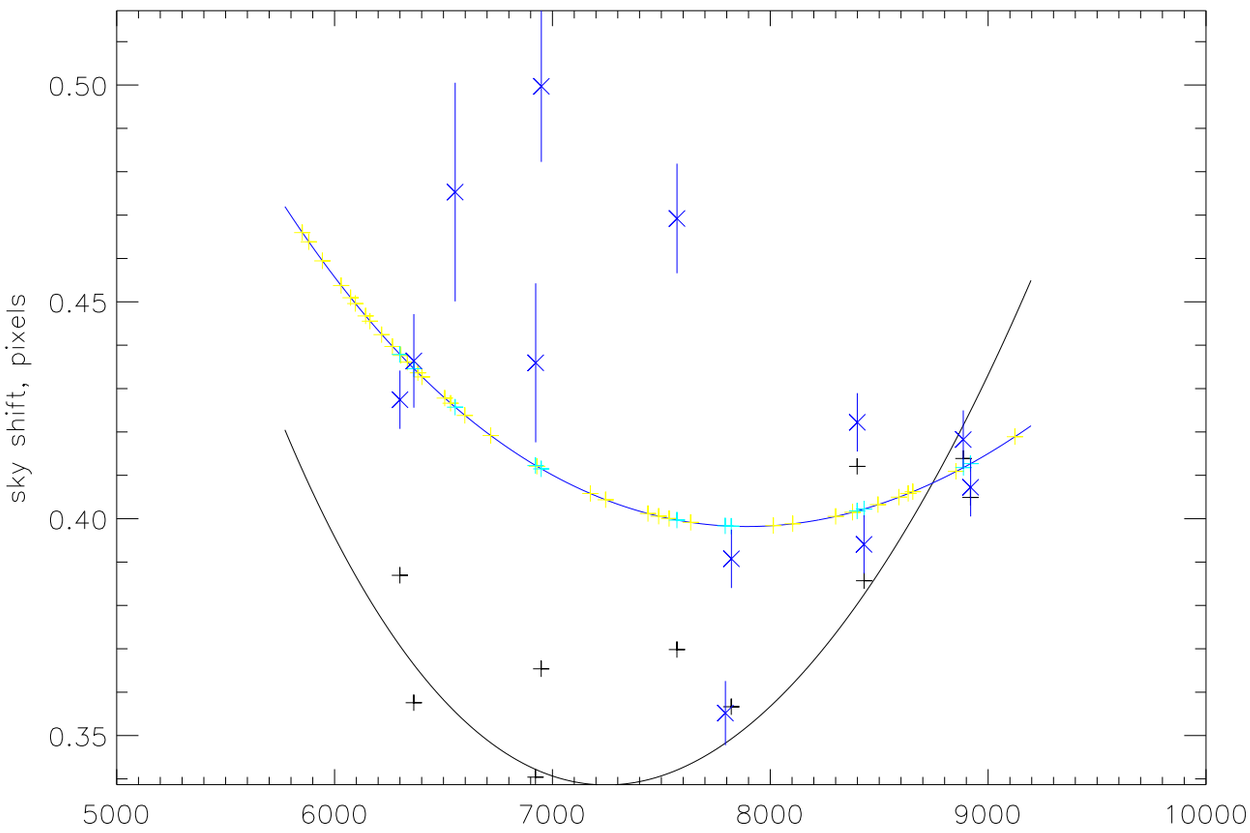

8399.1600
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

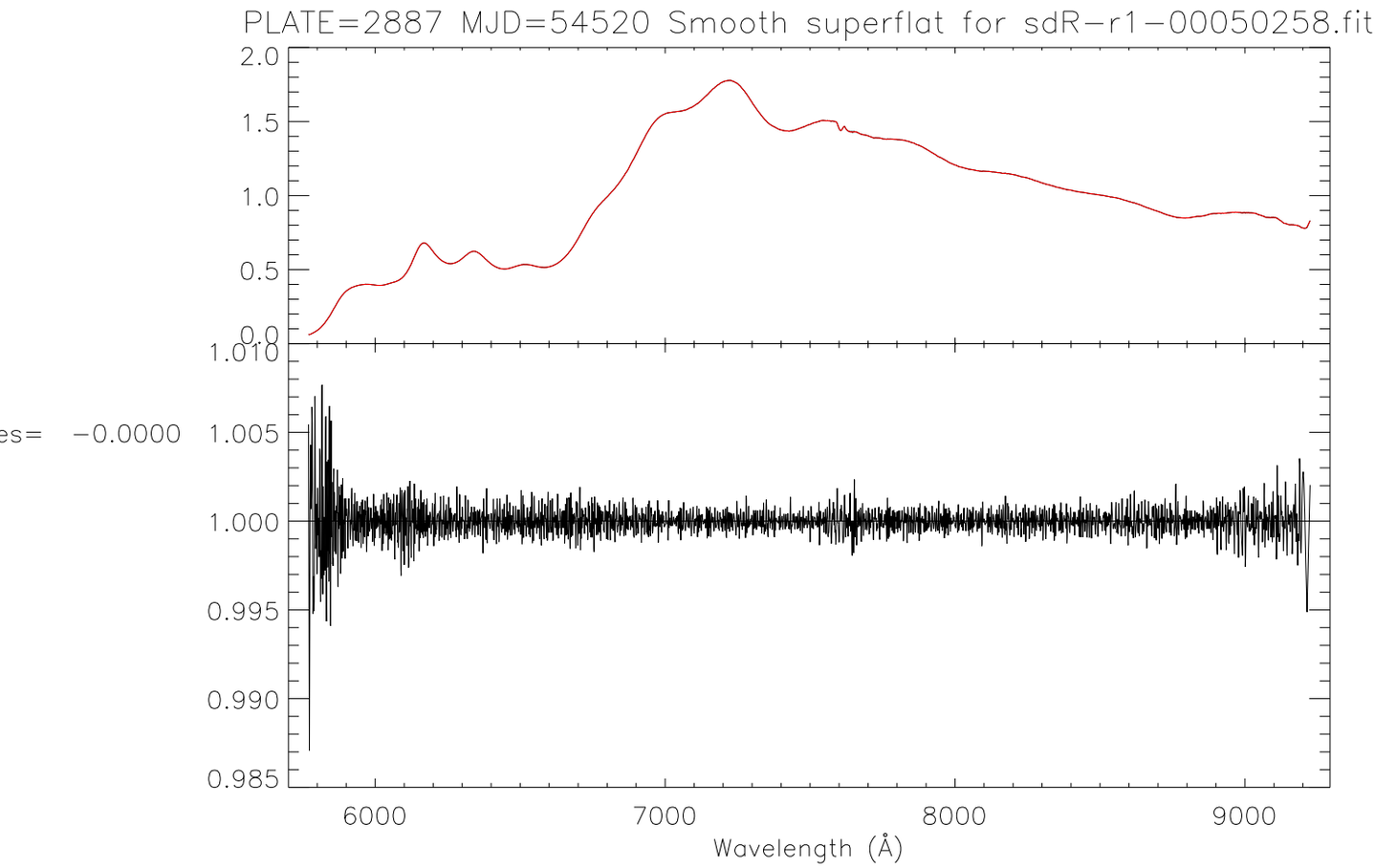

8430.1700
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

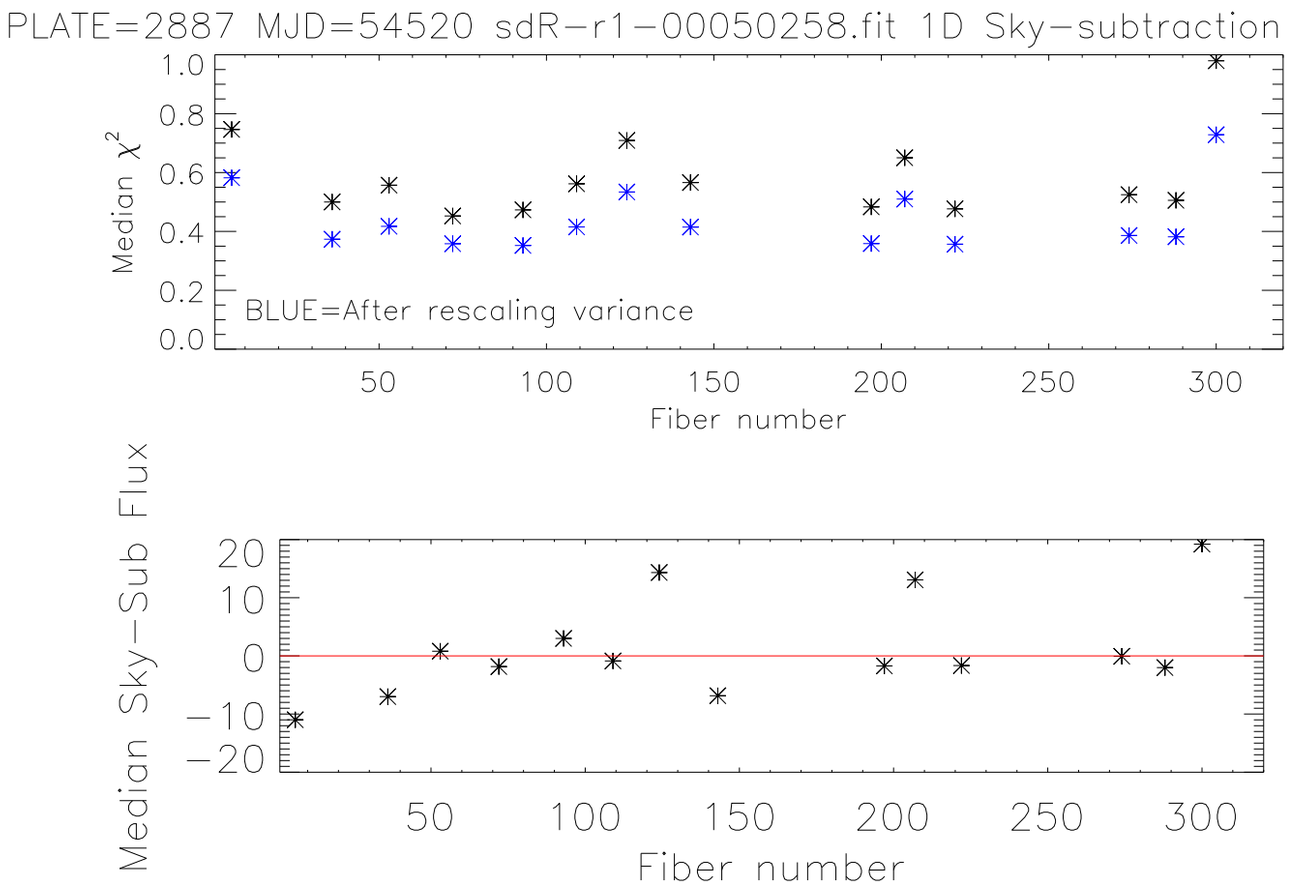

8885.8300
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

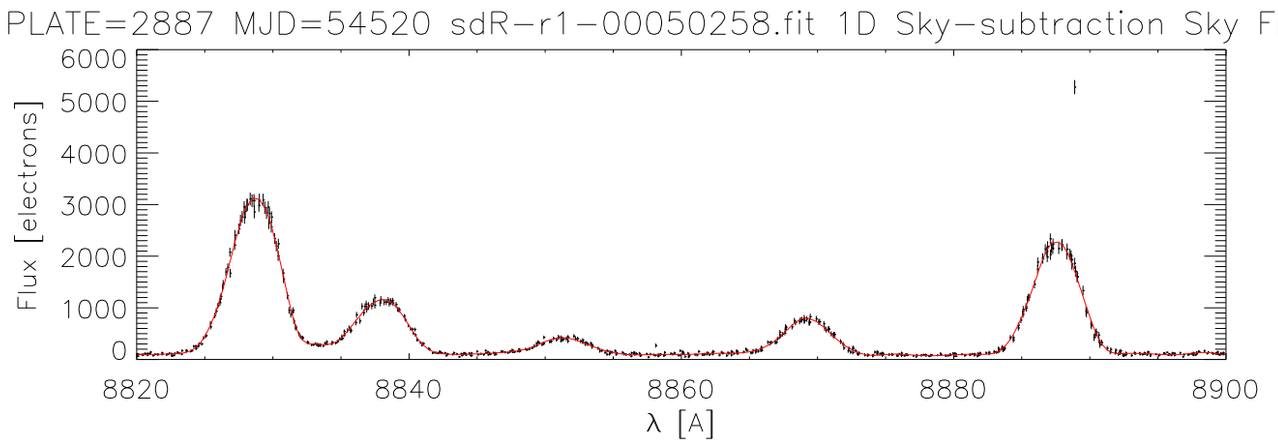

8919.6100
meas − arc
0.1
0.2
0.3
0.4
0.5
0.6
0
100
200
300
400

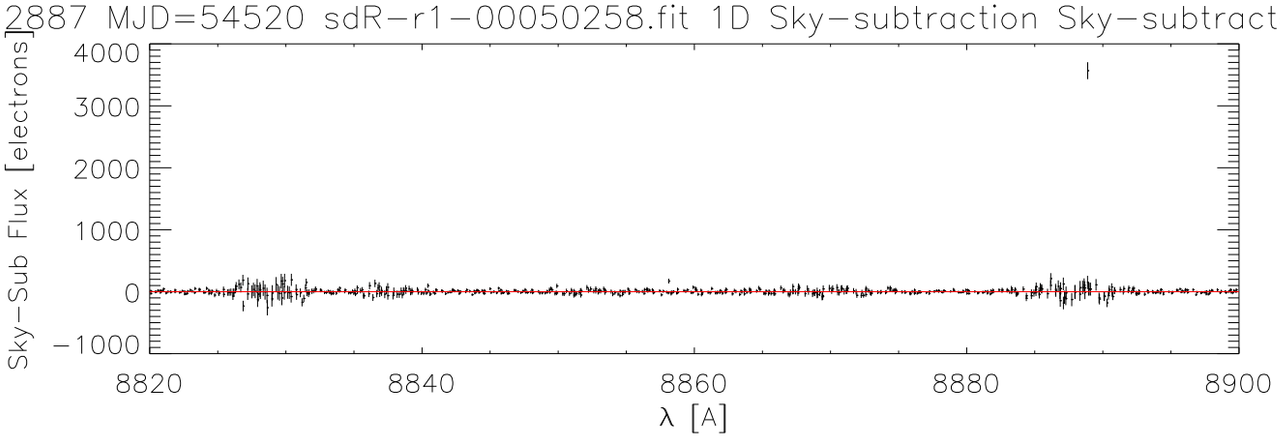

6300.3040
stdev 0.037
extra 0.43
6363.7760
stdev 0.045
extra 0.445
6553.6100
stdev 0.045
extra 0.48
6923.2100
stdev 0.049
extra 0.44
6949.0300
stdev 0.042
extra 0.50
7571.7500
stdev 0.037
extra 0.47
7794.1200
stdev 0.024
extra 0.36
7821.5100
stdev 0.030
extra 0.39
8399.1600
stdev 0.022
extra 0.42
8430.1700
stdev 0.038
extra 0.39
8885.8300
stdev 0.023
extra 0.42
8919.6100
stdev 0.028
extra 0.41
meas − pred, pix
afib1 16
afib2 16
afib1 15
afib2 15
afib1 14
afib2 14

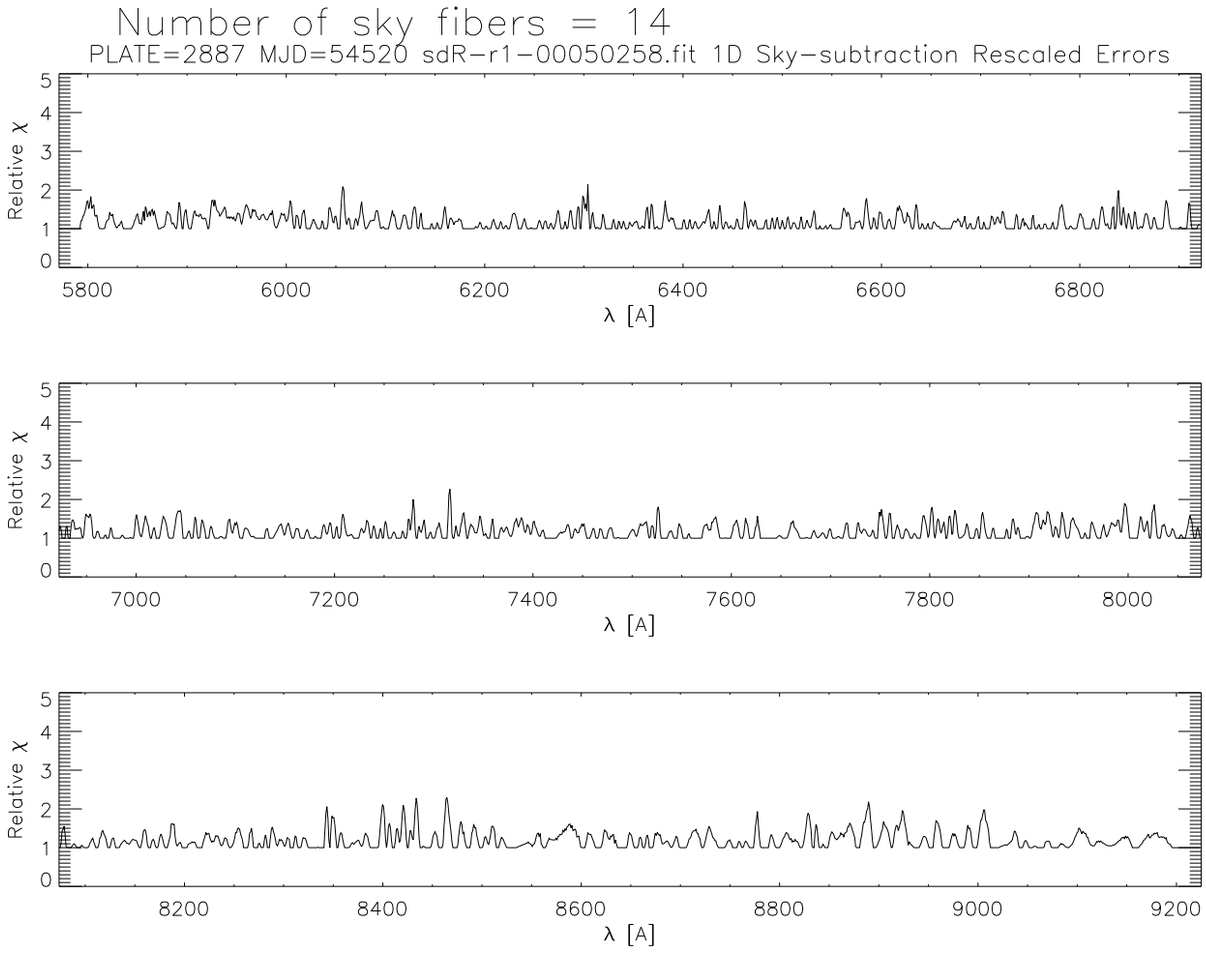

sky shift, pixels
0.50
0.45
0.40
0.35
5000
6000
7000
8000
9000
10000

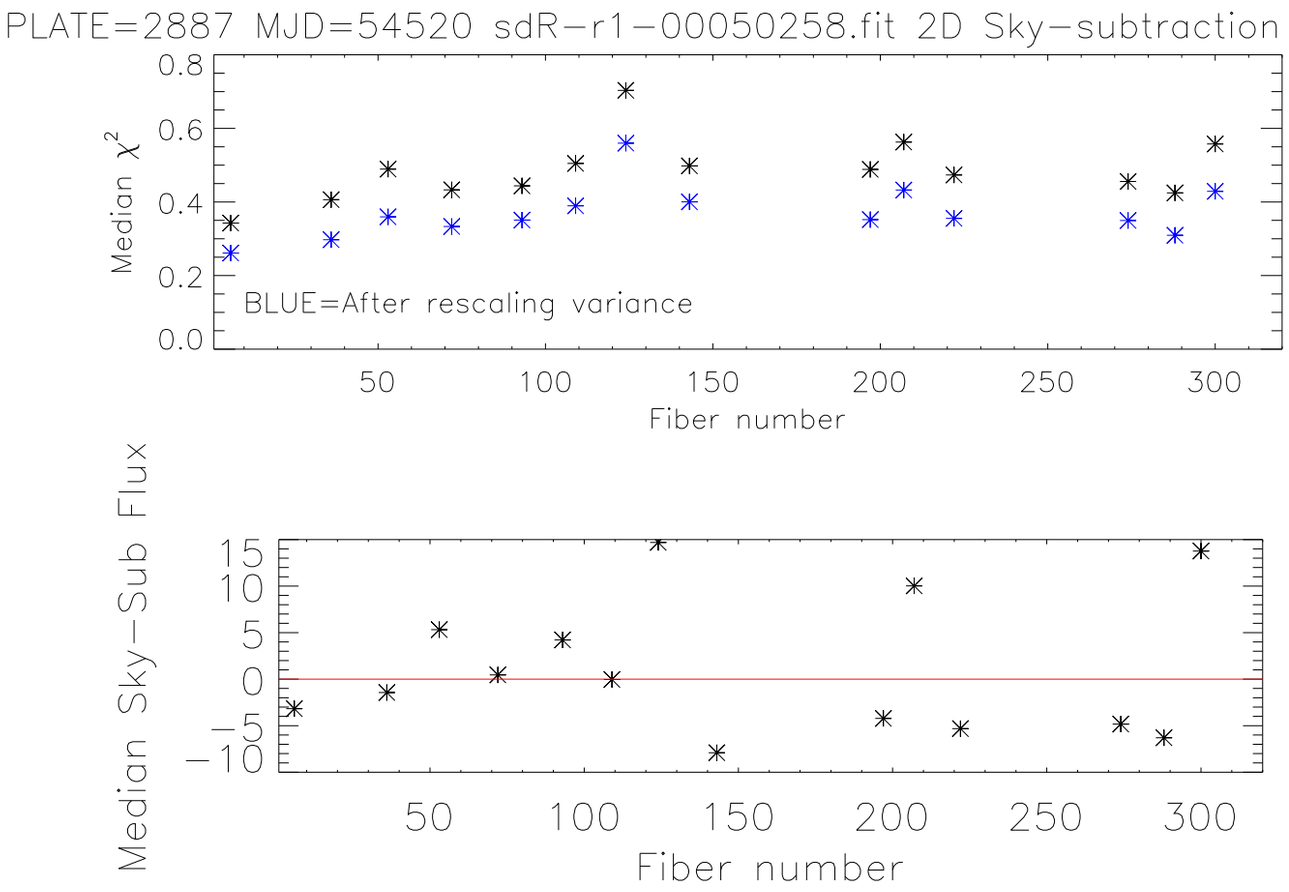

PLATE=2887 MJD=54520 Smooth superflat for sdR-r1-00050258.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

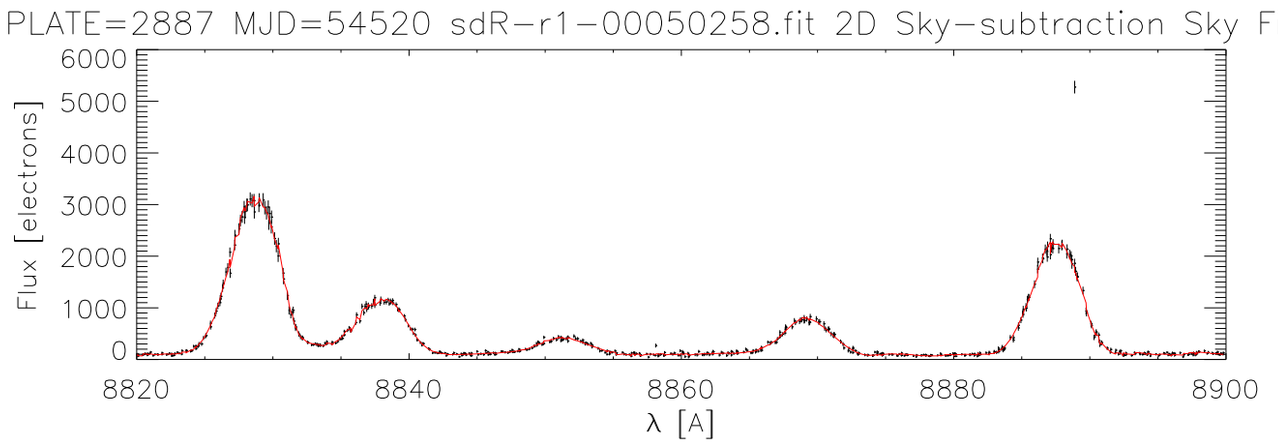

PLATE=2887 MJD=54520 sdR-r1-00050258.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

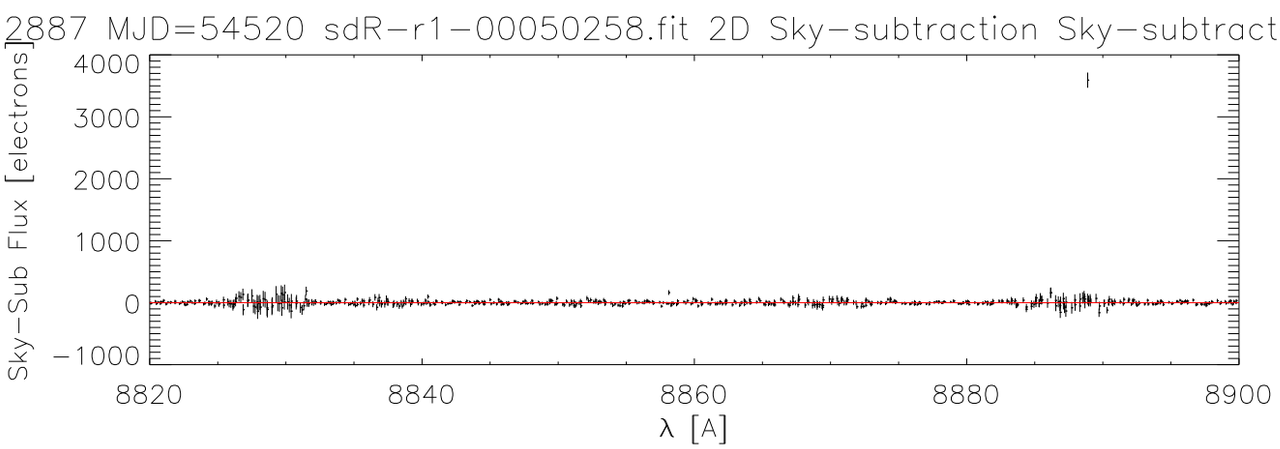

PLATE=2887 MJD=54520 sdR-r1-00050258.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

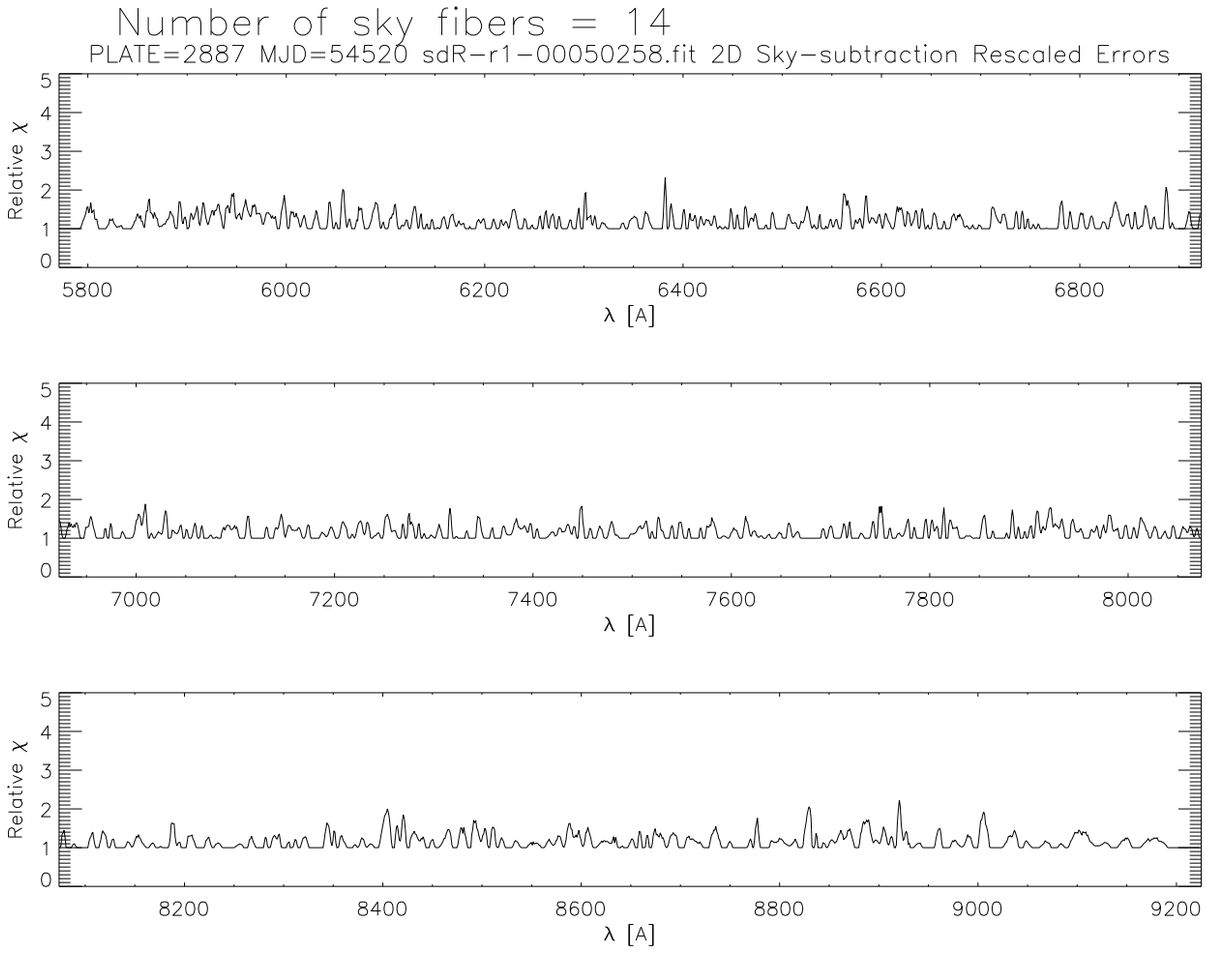

PLATE=2887 MJD=54520 sdR-r1-00050258.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

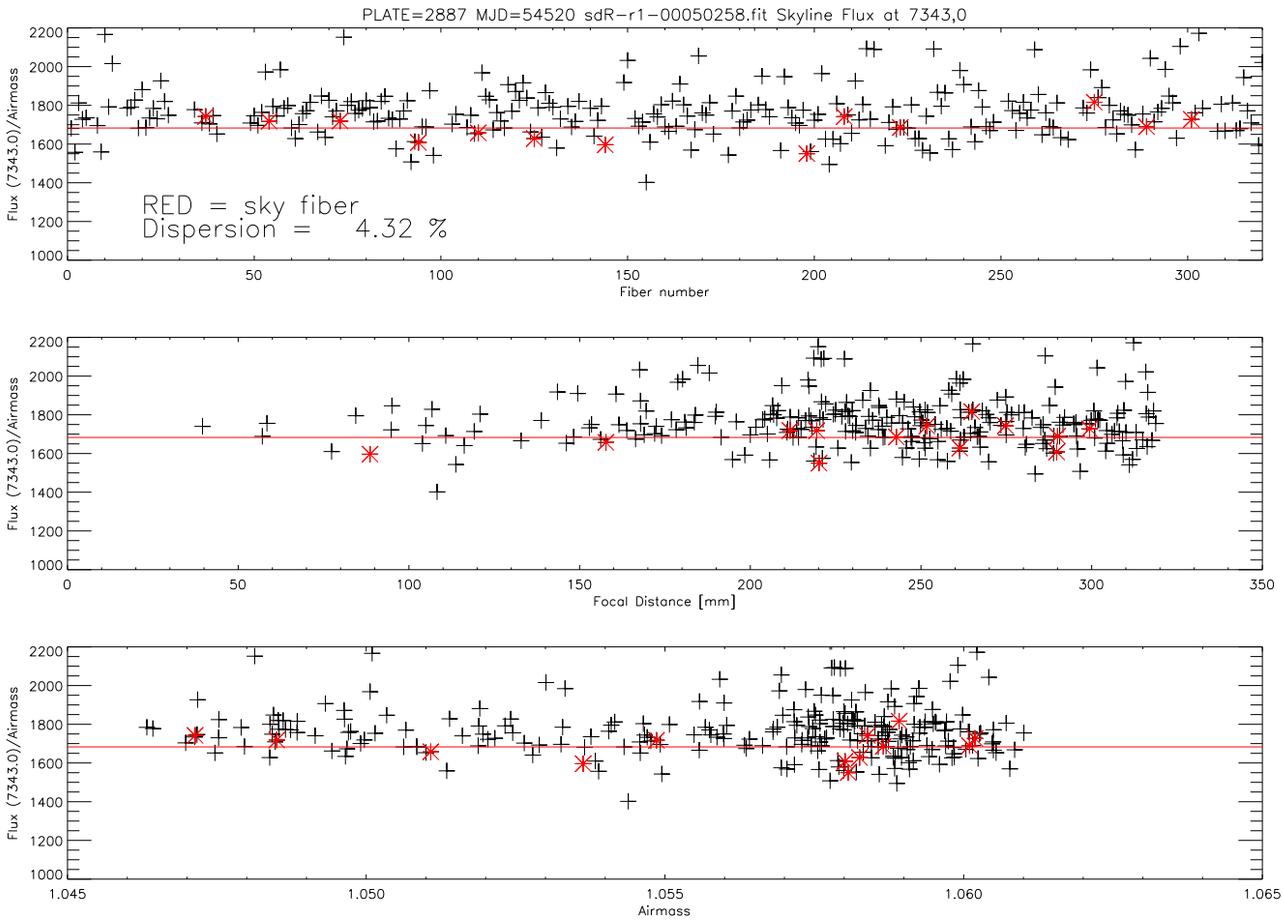

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-r1-00050258.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

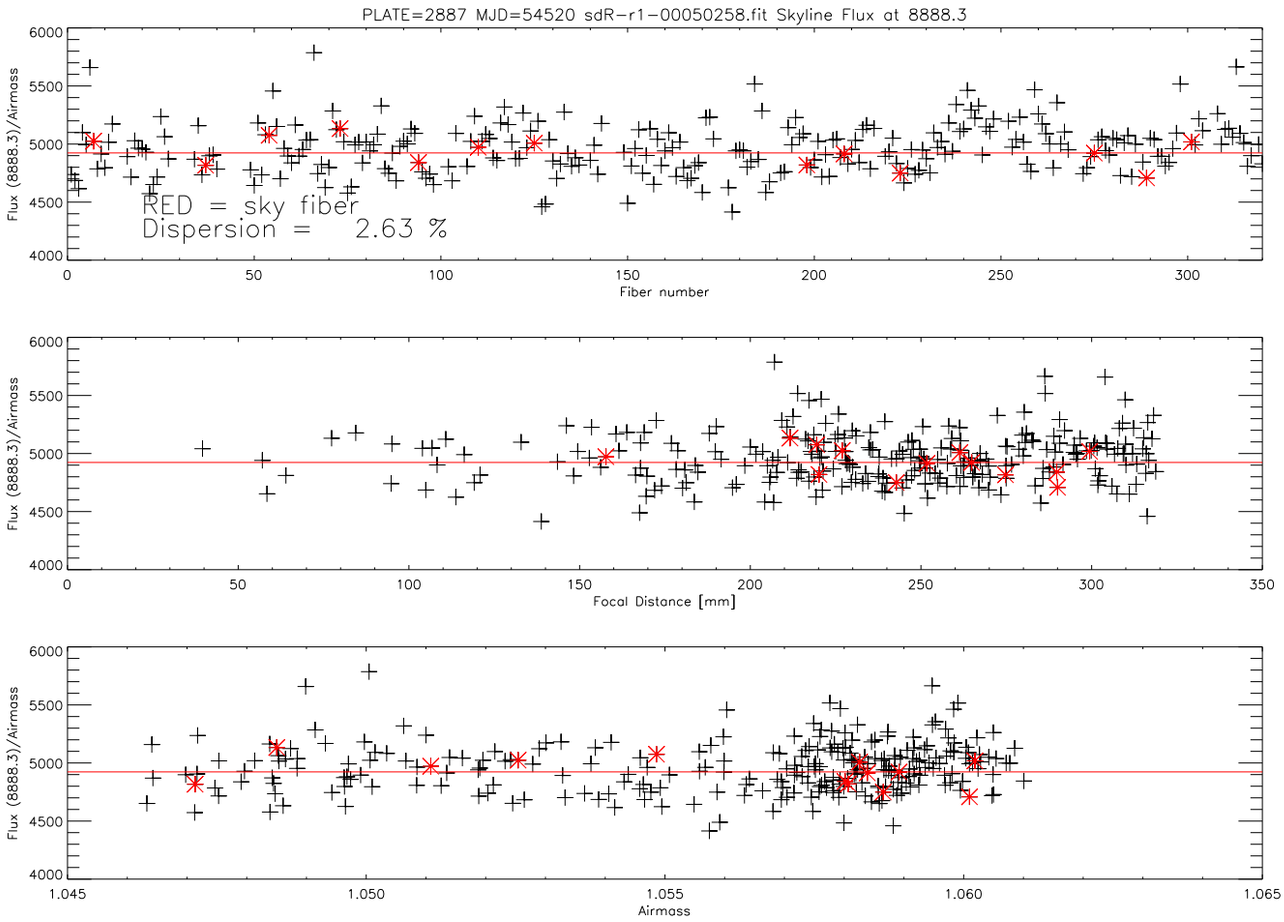

PLATE=2887 MJD=54520 sdR-r1-00050258.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

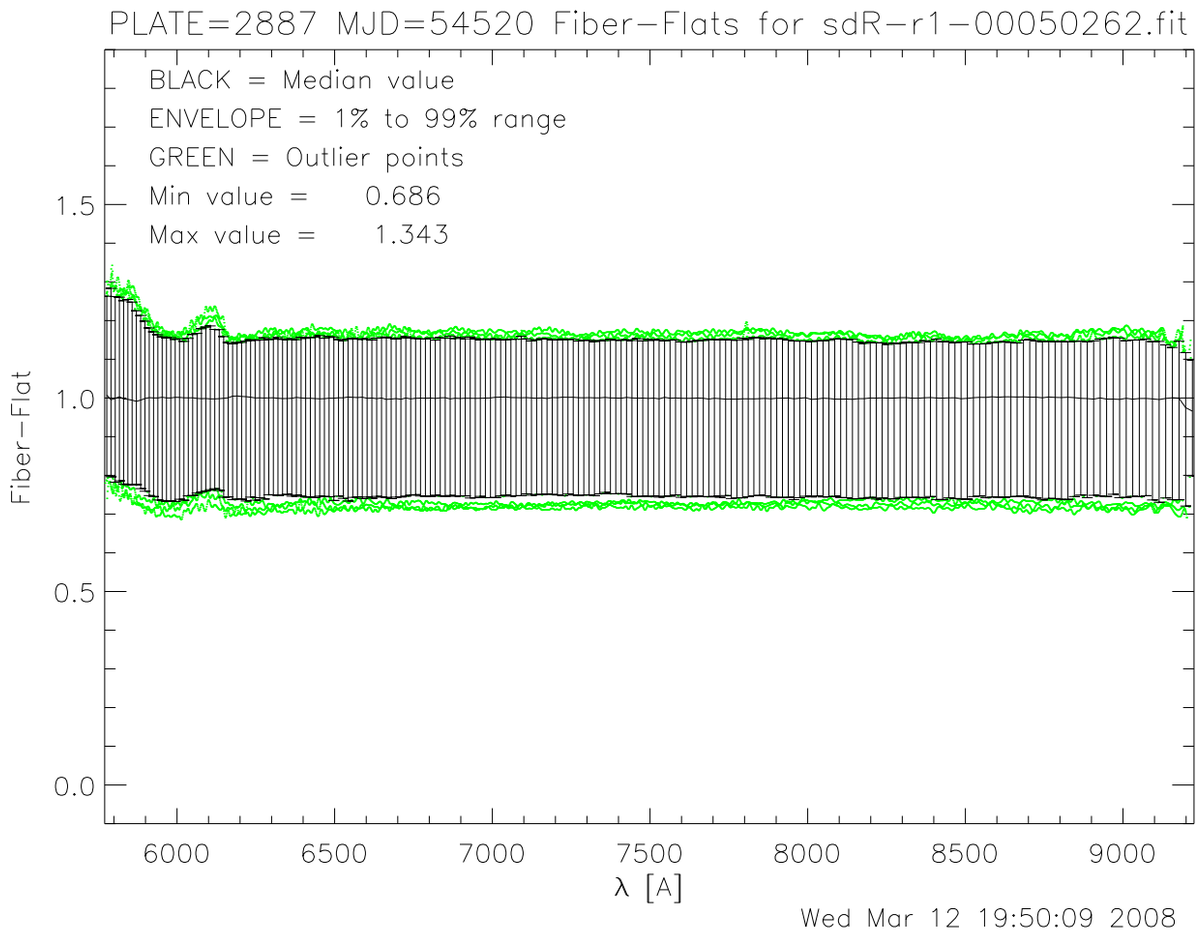

PLATE=2887 MJD=54520 sdR-r1-00050258.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

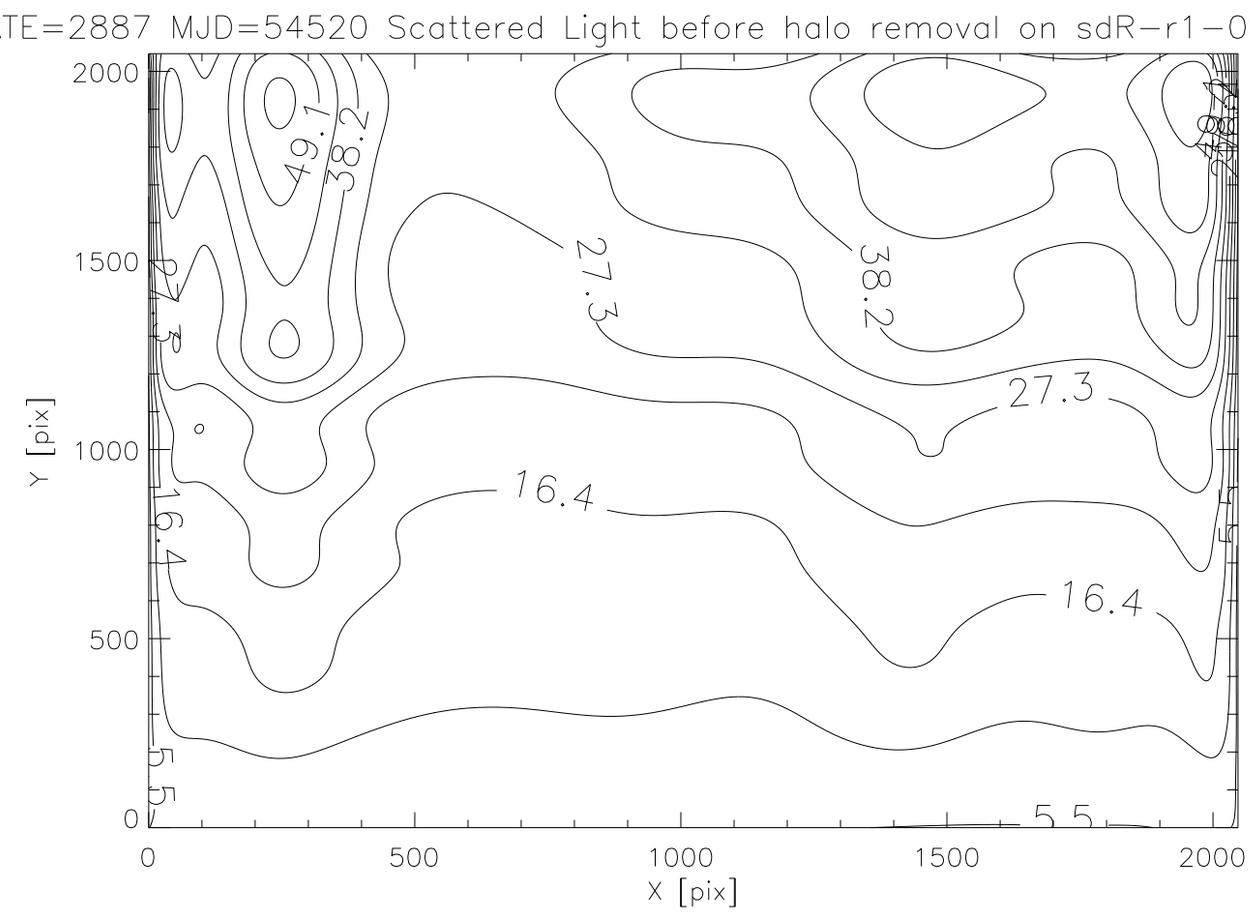

PLATE=2887 MJD=54520 sdR-r1-00050258.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
-1000
8820
8840
8860
8880
8900
λ [A]

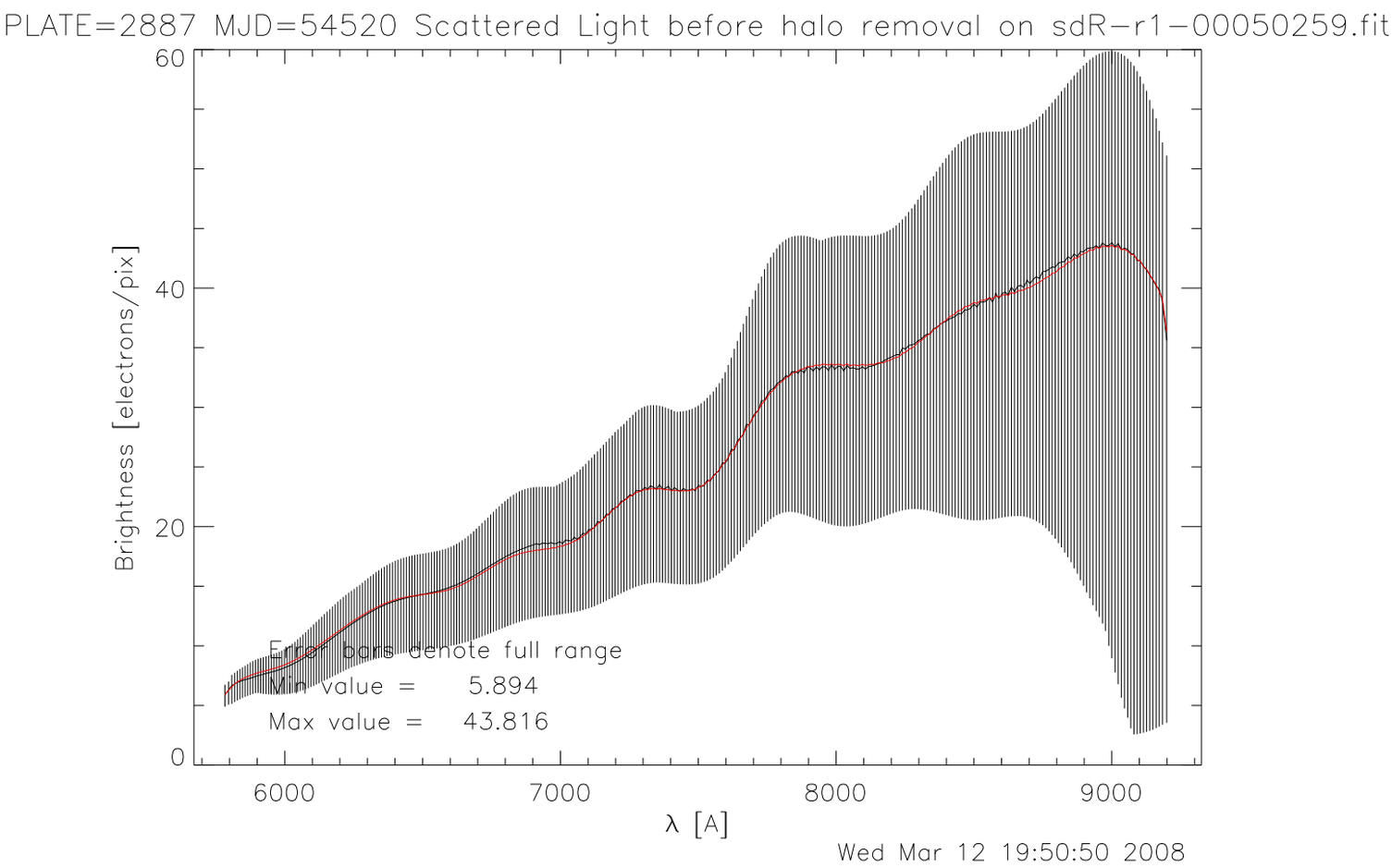

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-r1-00050258.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

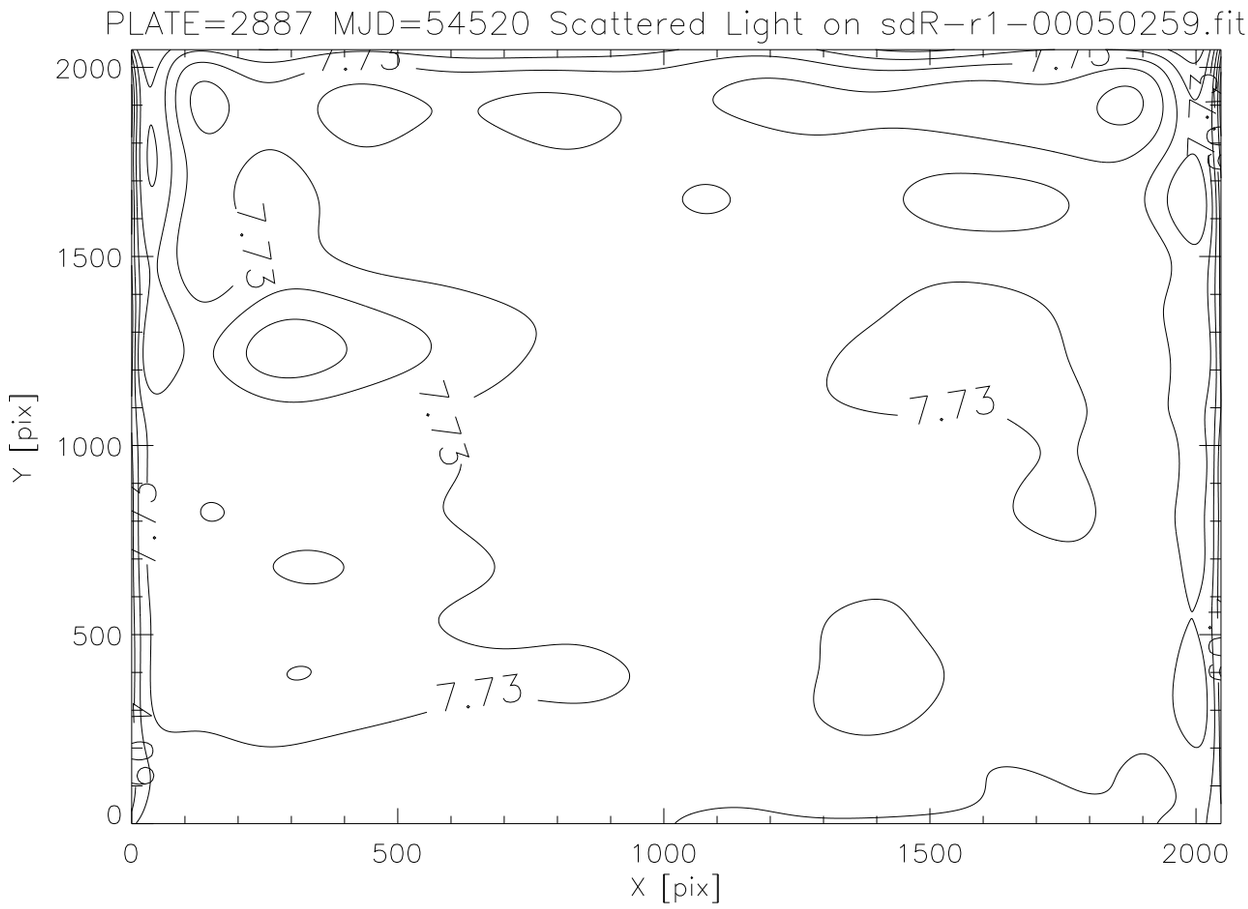

PLATE=2887 MJD=54520 sdR-r1-00050258.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 4.32 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

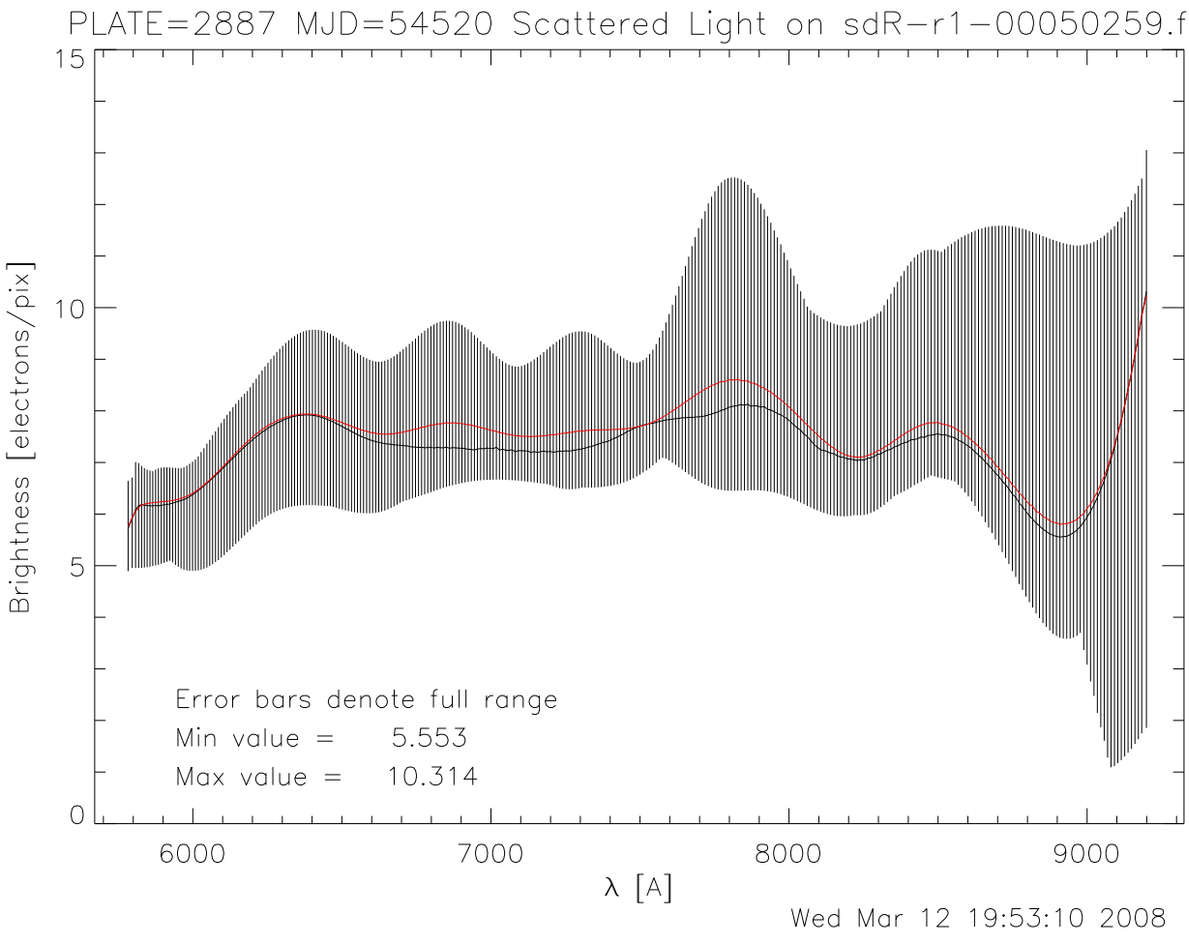

PLATE=2887 MJD=54520 sdR-r1-00050258.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.63 %
Fiber number
Focal Distance [mm]
Airmass

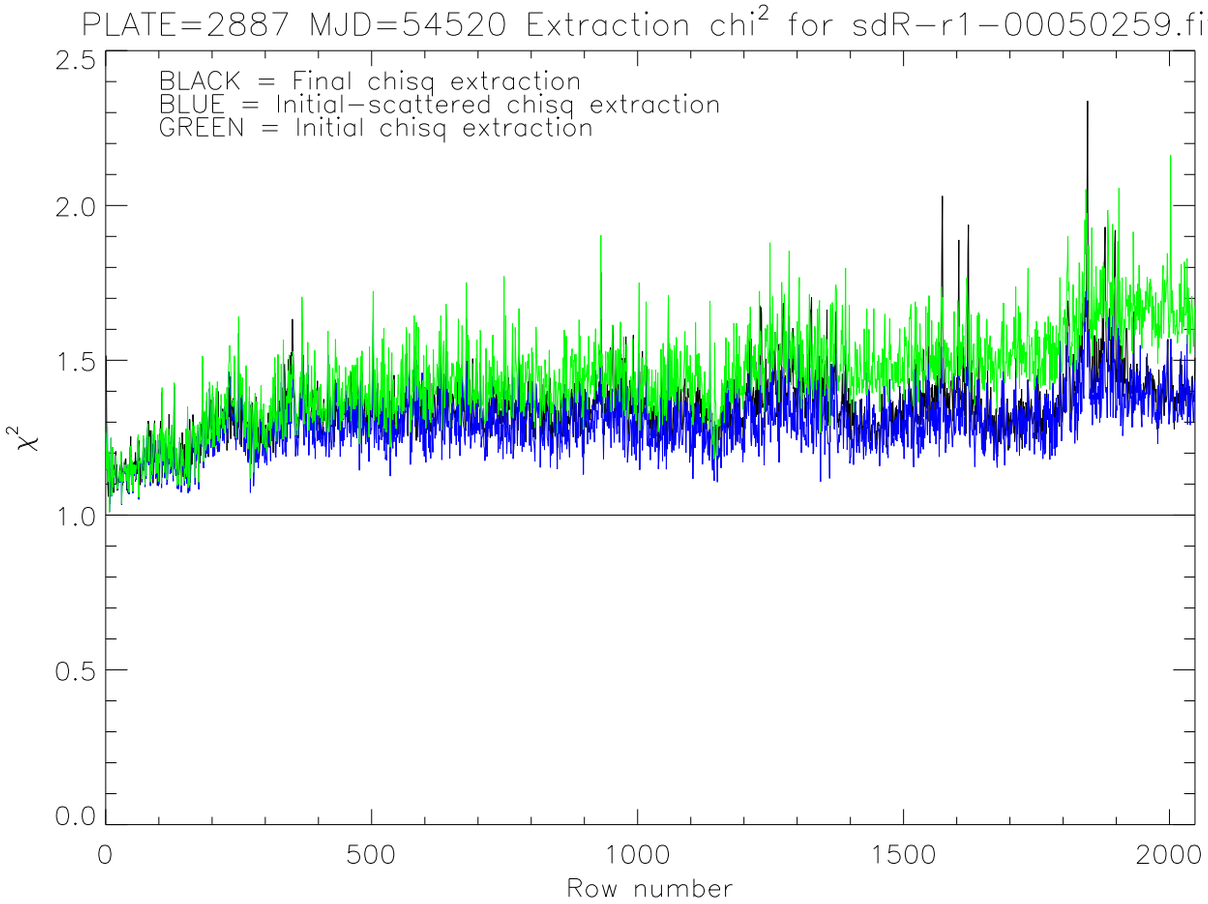

PLATE=2887 MJD=54520 Fiber-Flats for sdR-r1-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.686
Max value = 1.343
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 19:50:09 2008

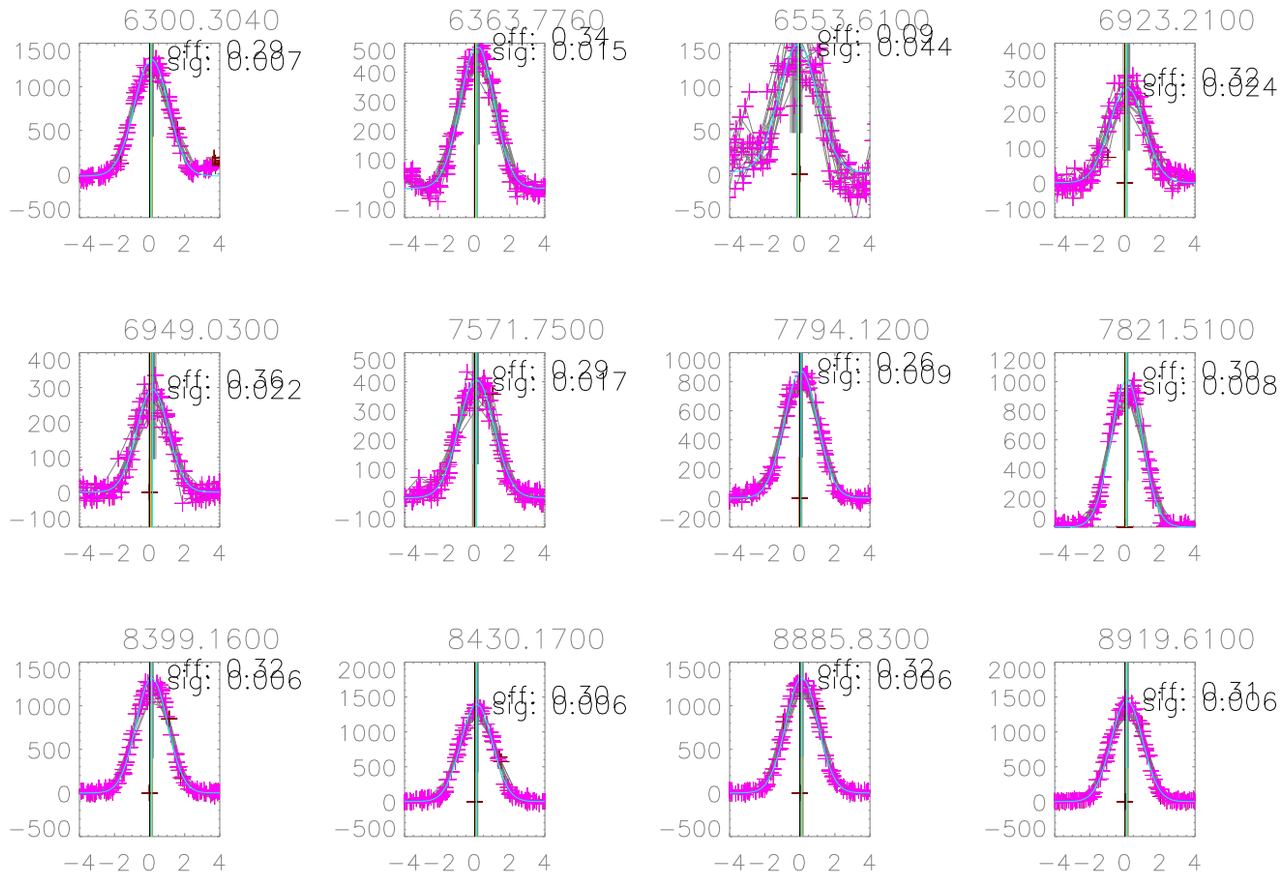

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r1-00050259.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
49.1
38.2
27.3
16.4
5.5

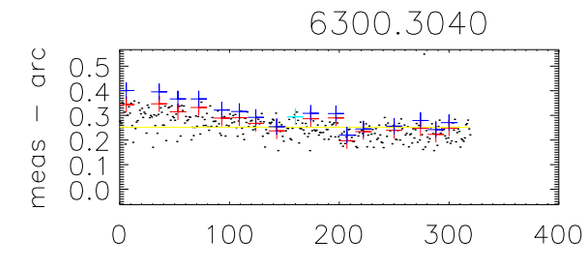

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r1-00050259.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.894
Max value = 43.816
Wed Mar 12 19:50:50 2008

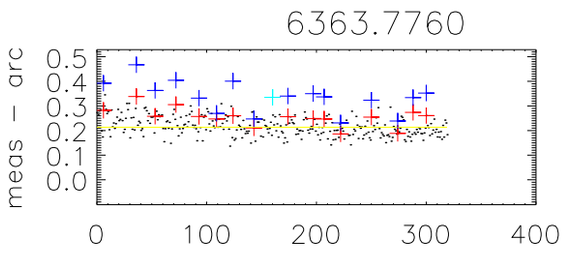

PLATE=2887 MJD=54520 Scattered Light on sdR-r1-00050259.fit
7.73
7.73
7.73
7.73
7.73
7.73
7.73
Y [pix]
X [pix]
0
500
1000
1500
2000

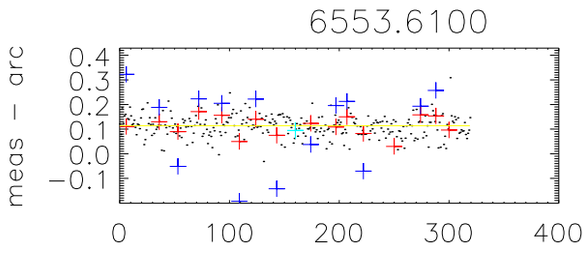

PLATE=2887 MJD=54520 Scattered Light on sdR-r1-00050259.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.553
Max value = 10.314
Wed Mar 12 19:53:10 2008

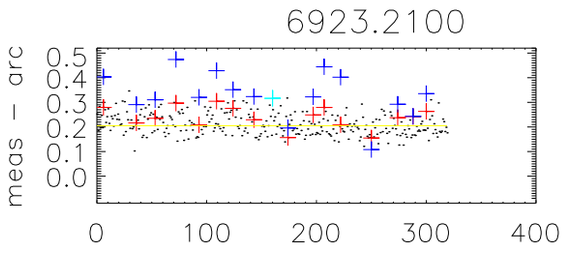

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-r1-00050259.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

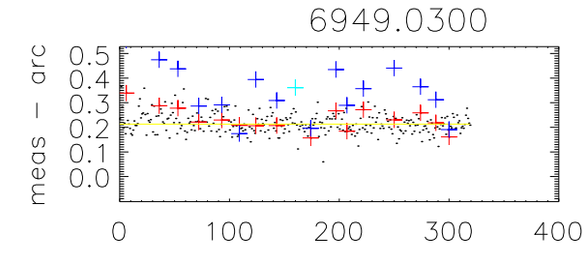

6300.3040
off: 0.28
sig: 0.007
6363.7760
off: 0.34
sig: 0.015
6553.6100
off: 0.09
sig: 0.044
6923.2100
off: 0.32
sig: 0.024
6949.0300
off: 0.36
sig: 0.022
7571.7500
off: 0.29
sig: 0.017
7794.1200
off: 0.26
sig: 0.009
7821.5100
off: 0.30
sig: 0.008
8399.1600
off: 0.32
sig: 0.006
8430.1700
off: 0.30
sig: 0.006
8885.8300
off: 0.32
sig: 0.006
8919.6100
off: 0.31
sig: 0.006

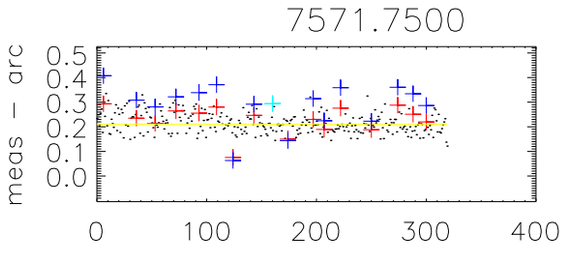

6300.3040
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

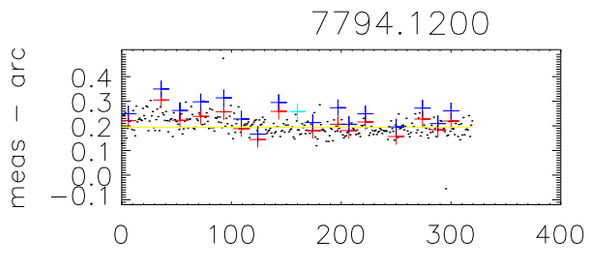

6363.7760
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

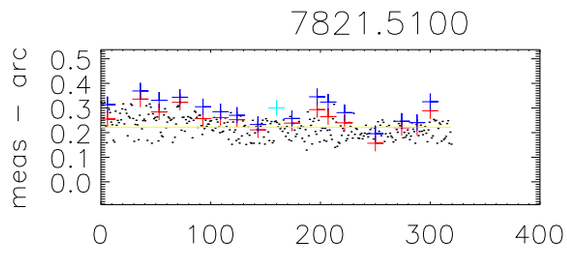

6553.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

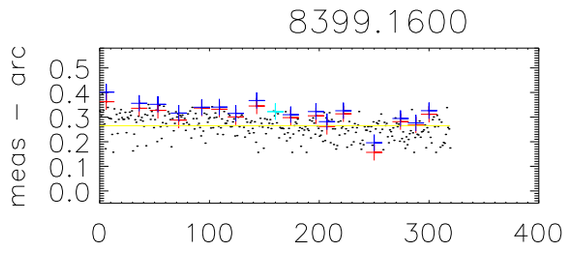

6923.2100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

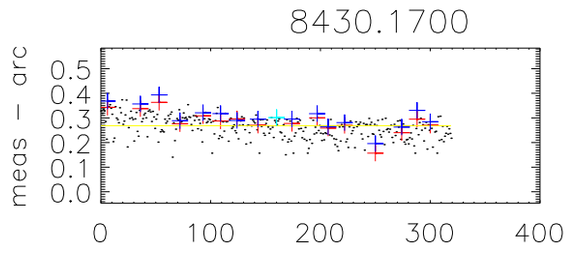

6949.0300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

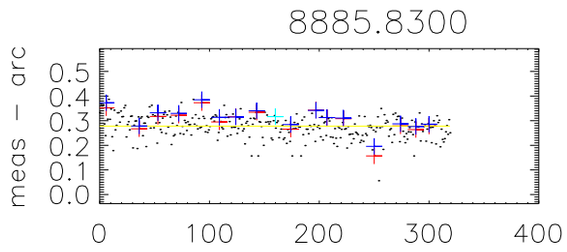

7571.7500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

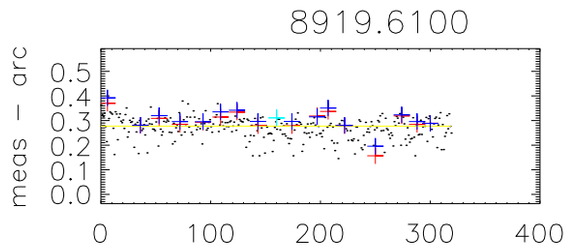

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

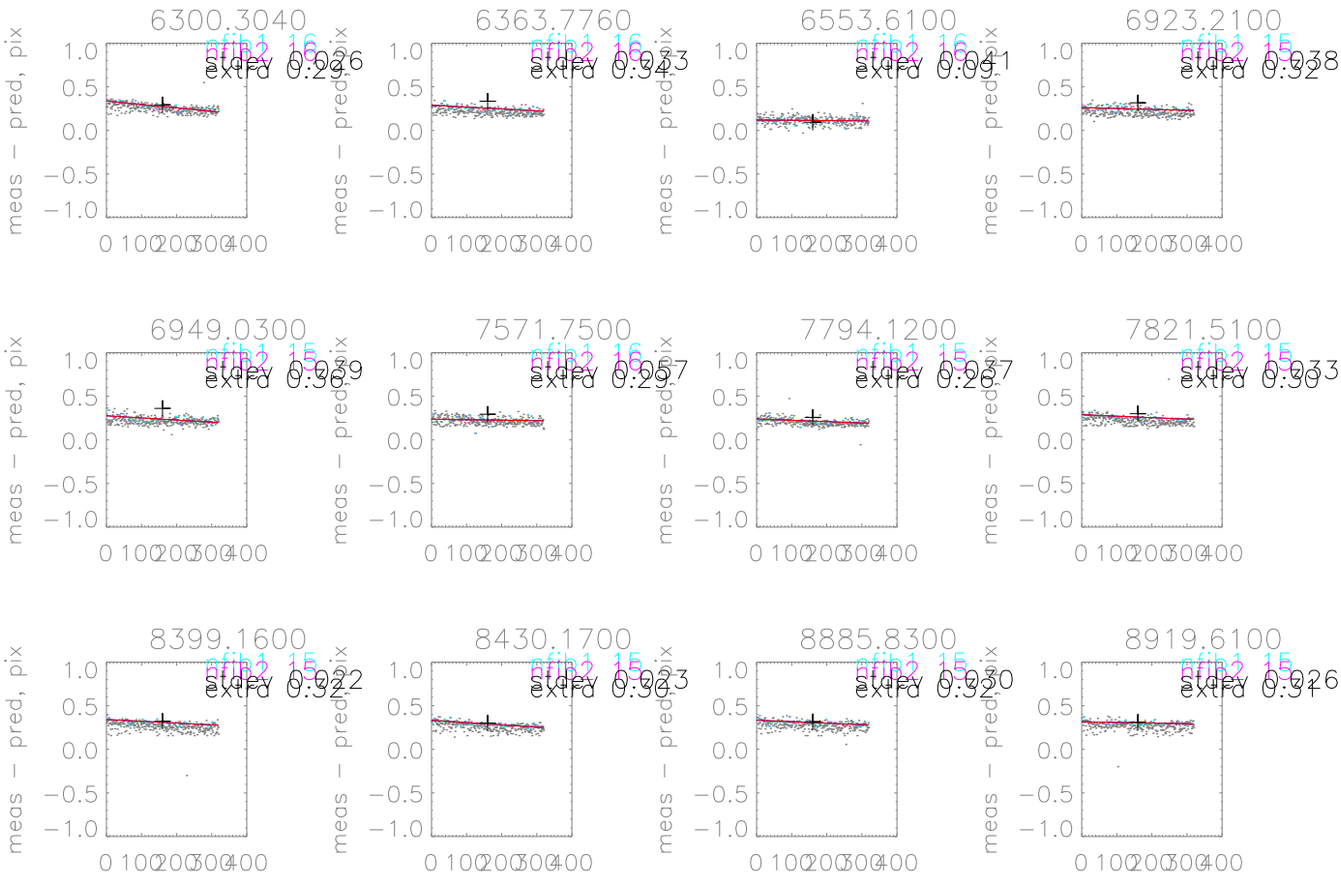

7821.5100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

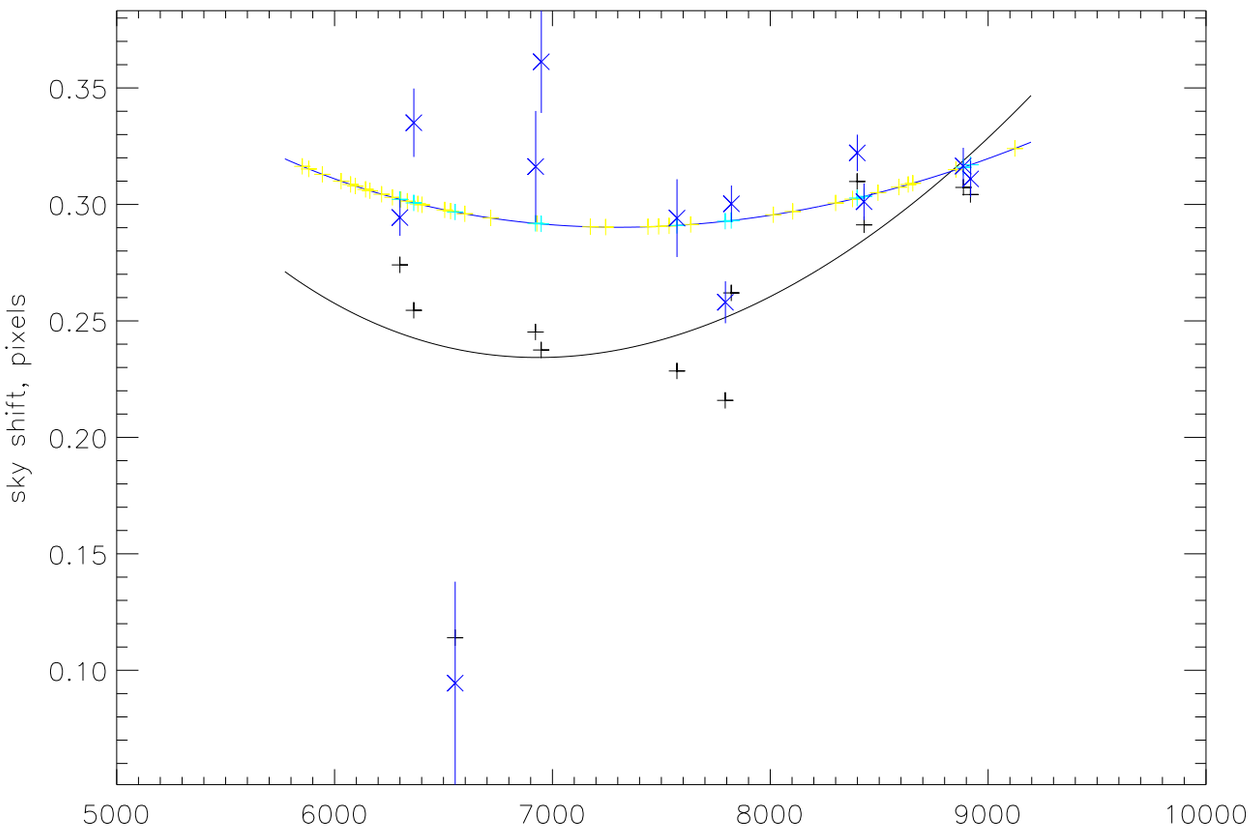

8399.1600
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

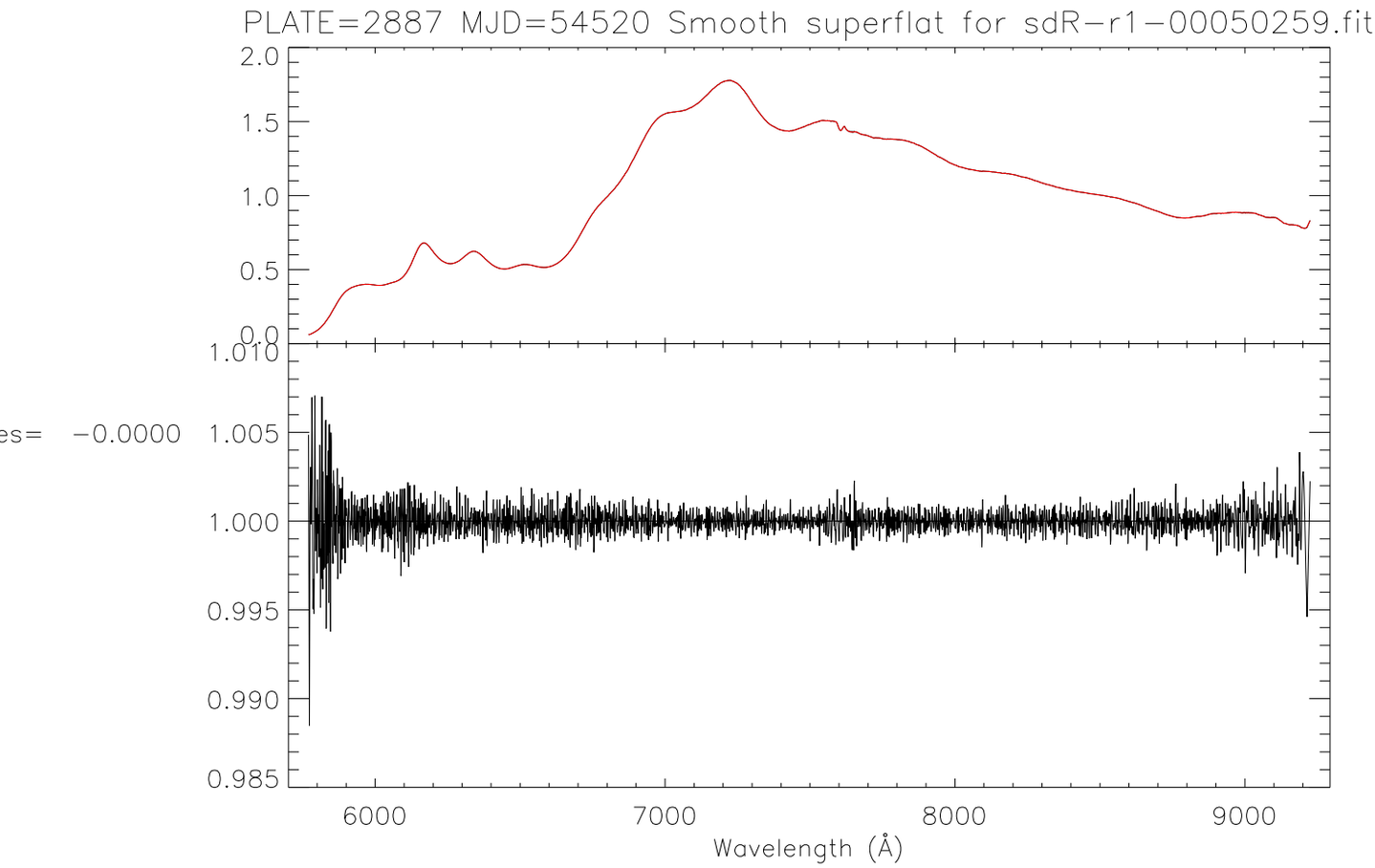

8430.1700
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

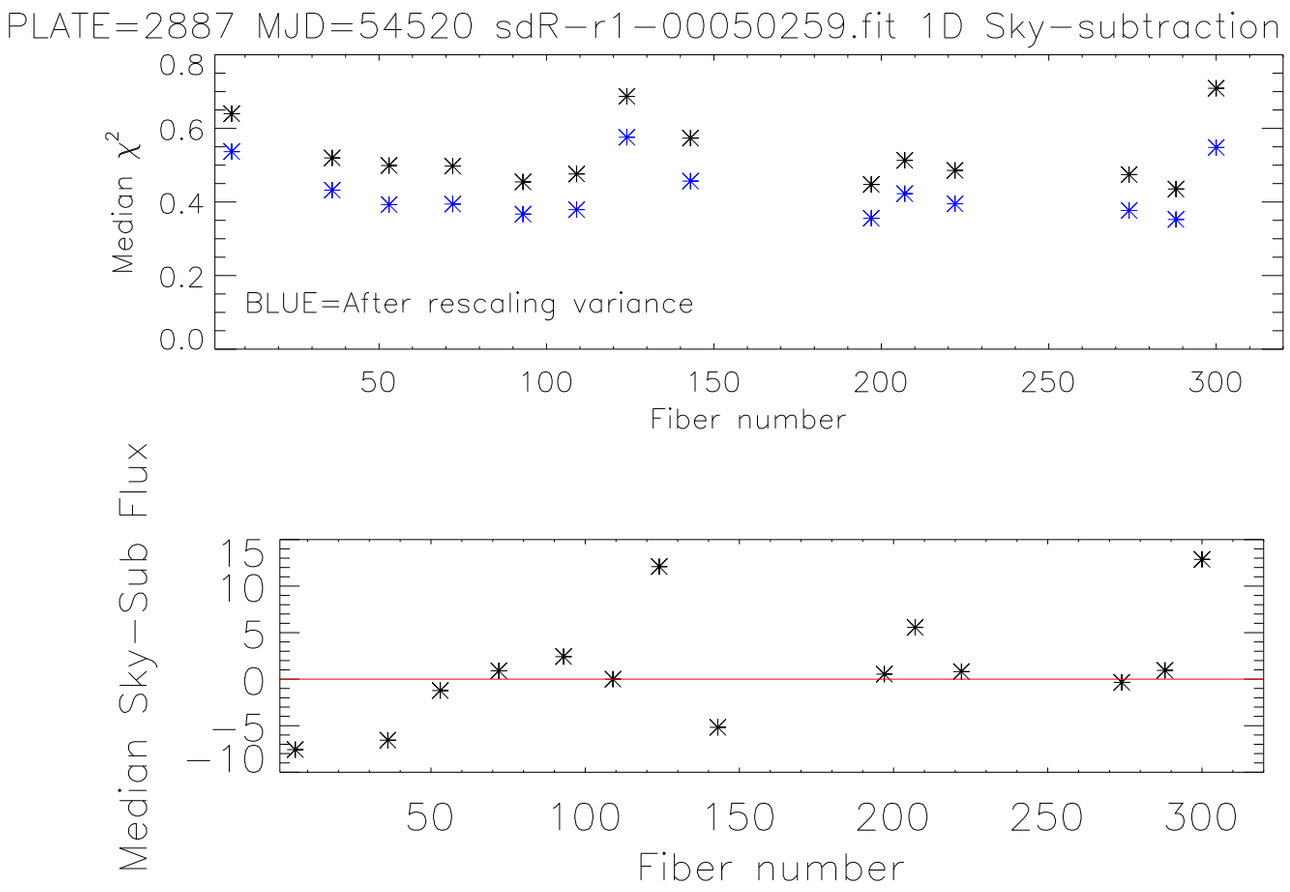

8885.8300
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

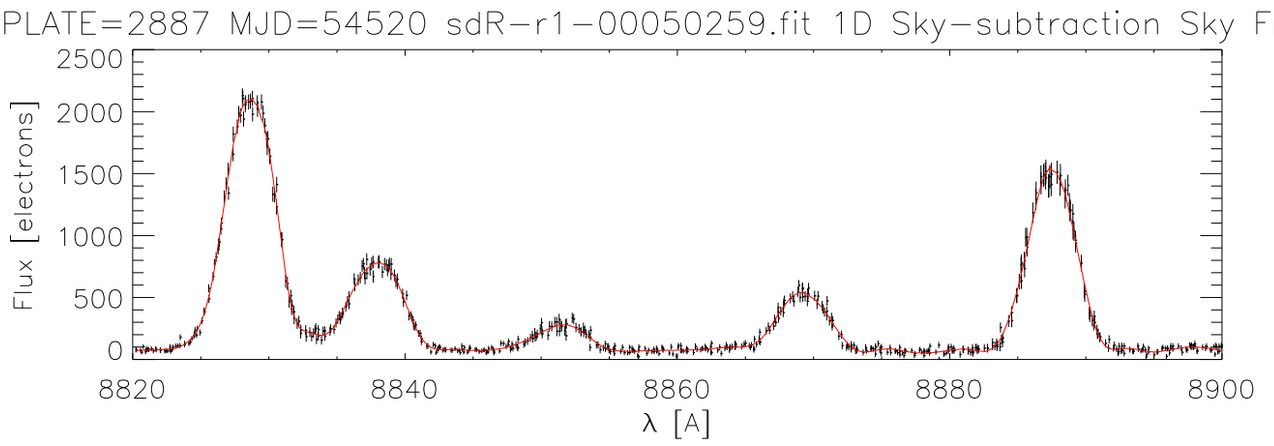

8919.6100
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

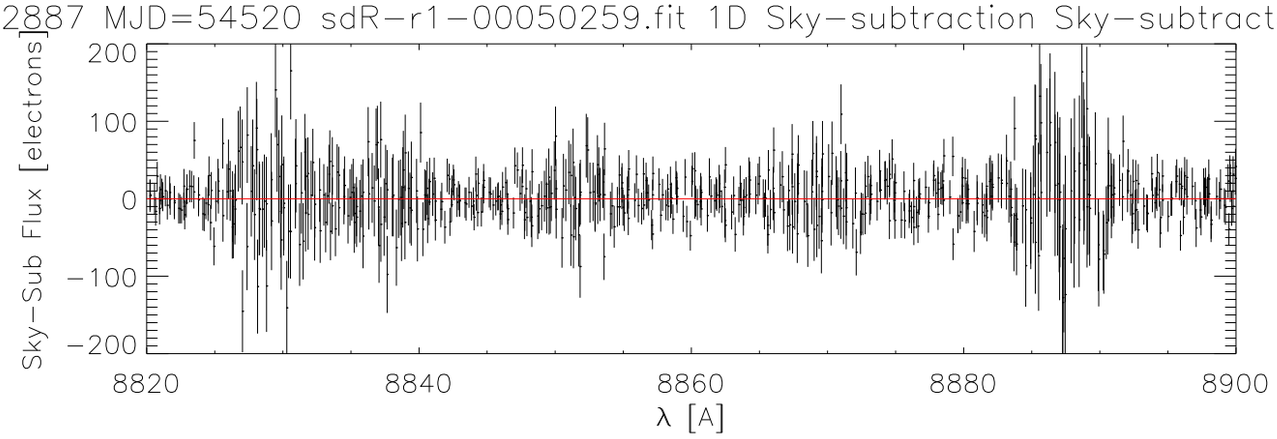

6300.3040
stdev 0.026
extra 0.24
6363.7760
stdev 0.023
extra 0.34
6553.6100
stdev 0.041
extra 0.09
6923.2100
stdev 0.038
extra 0.32
6949.0300
stdev 0.039
extra 0.36
7571.7500
stdev 0.057
extra 0.29
7794.1200
stdev 0.037
extra 0.26
7821.5100
stdev 0.033
extra 0.30
8399.1600
stdev 0.022
extra 0.32
8430.1700
stdev 0.023
extra 0.30
8885.8300
stdev 0.030
extra 0.32
8919.6100
stdev 0.026
extra 0.31
meas − pred, pix
afib1 15
afib2 16

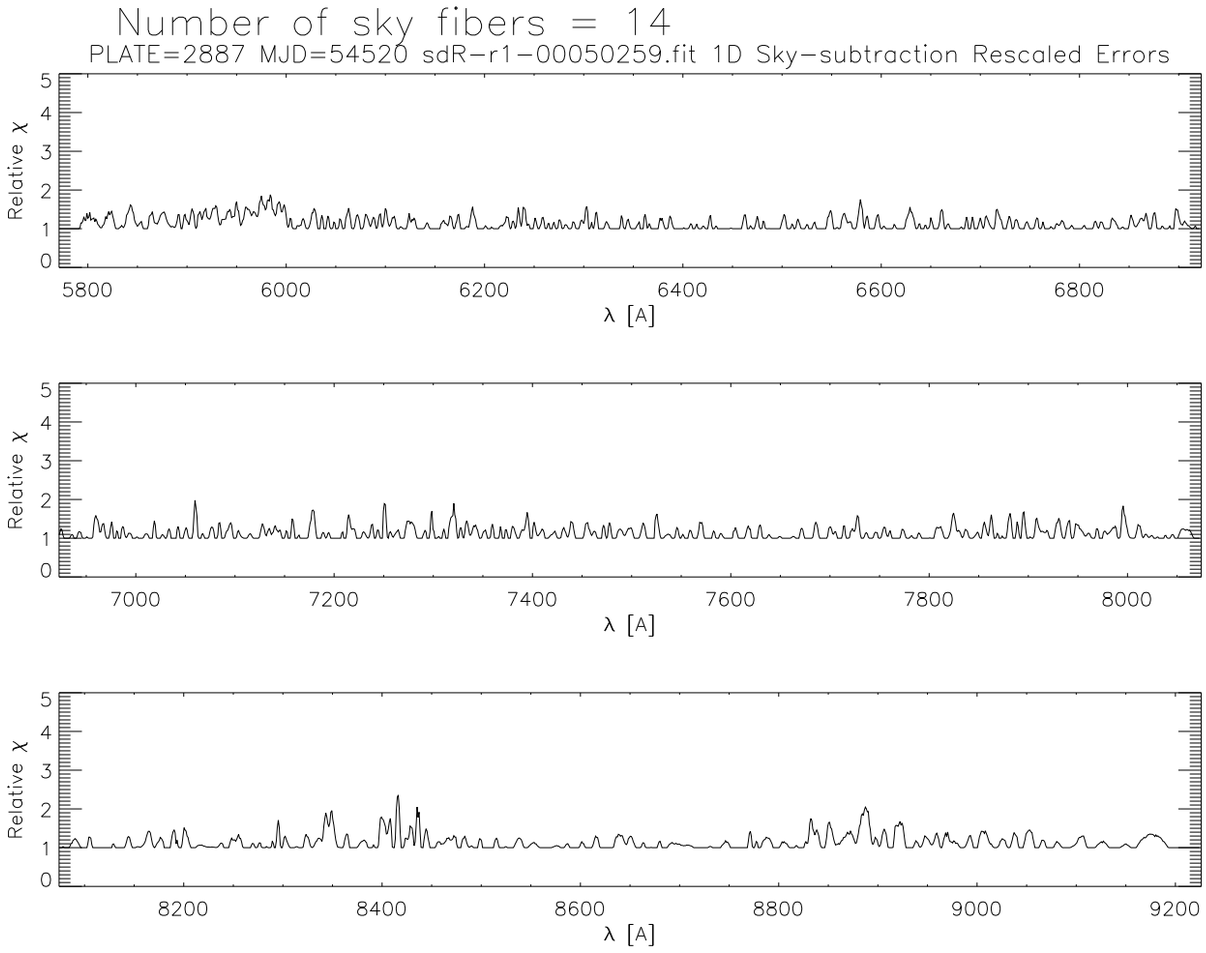

sky shift, pixels
0.35
0.30
0.25
0.20
0.15
0.10
5000
6000
7000
8000
9000
10000

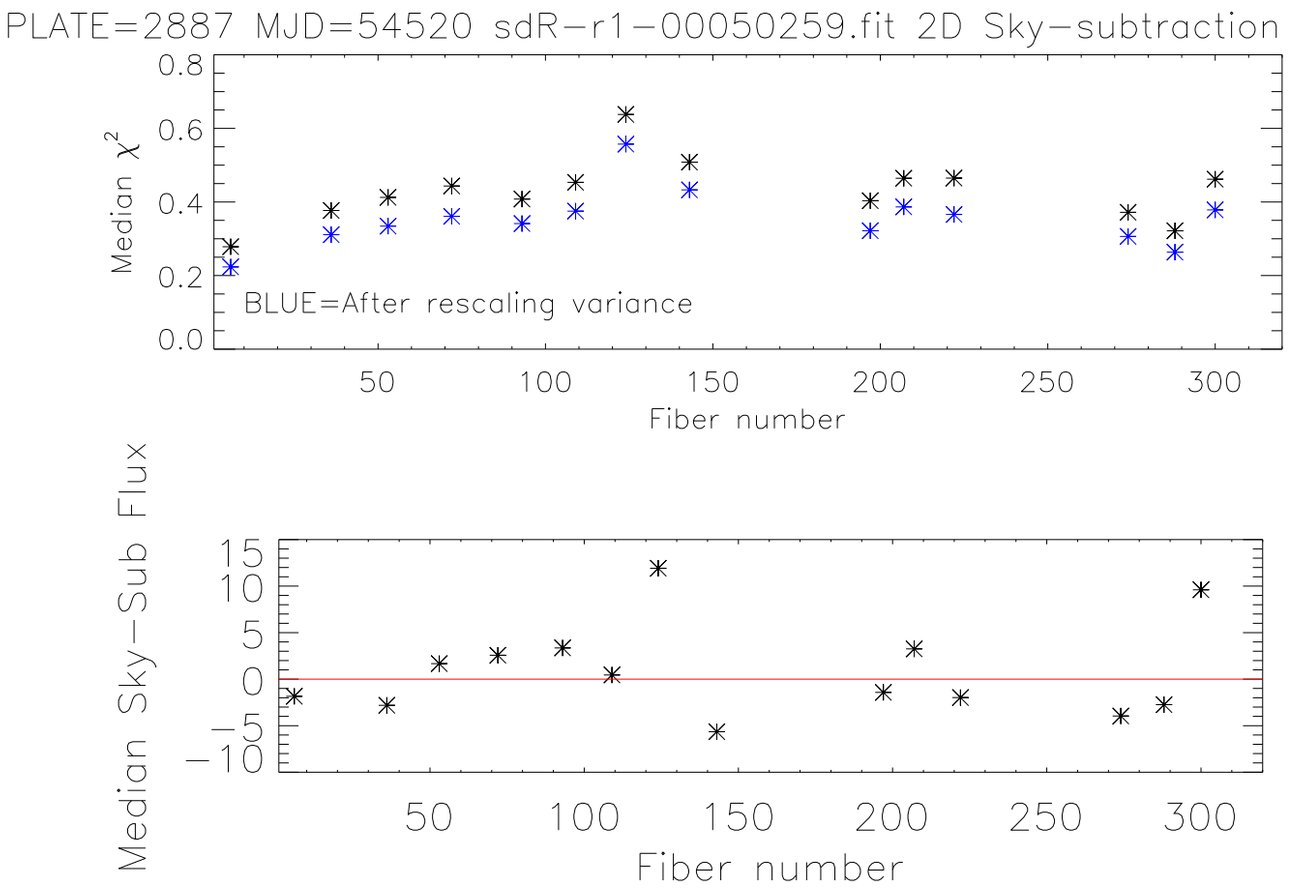

PLATE=2887 MJD=54520 Smooth superflat for sdR-r1-00050259.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

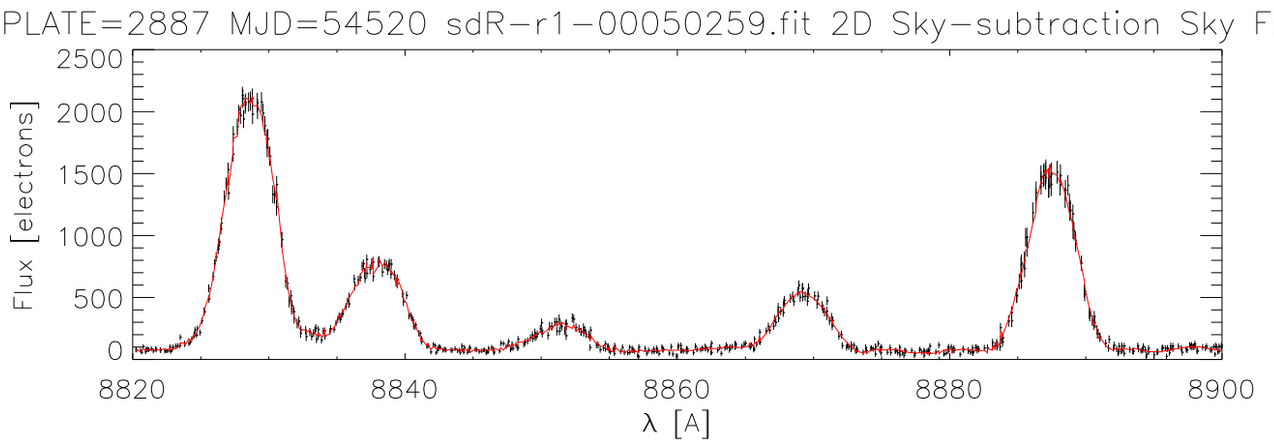

PLATE=2887 MJD=54520 sdR-r1-00050259.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-10
-5
0
5
10
15
50
100
150
200
250
300
Fiber number

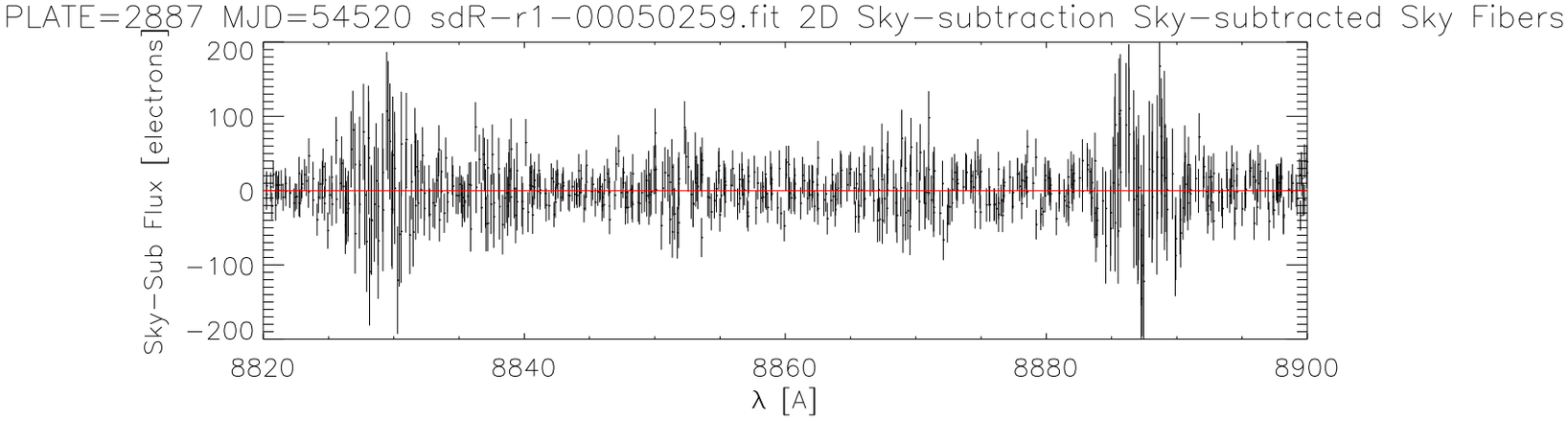

PLATE=2887 MJD=54520 sdR-r1-00050259.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

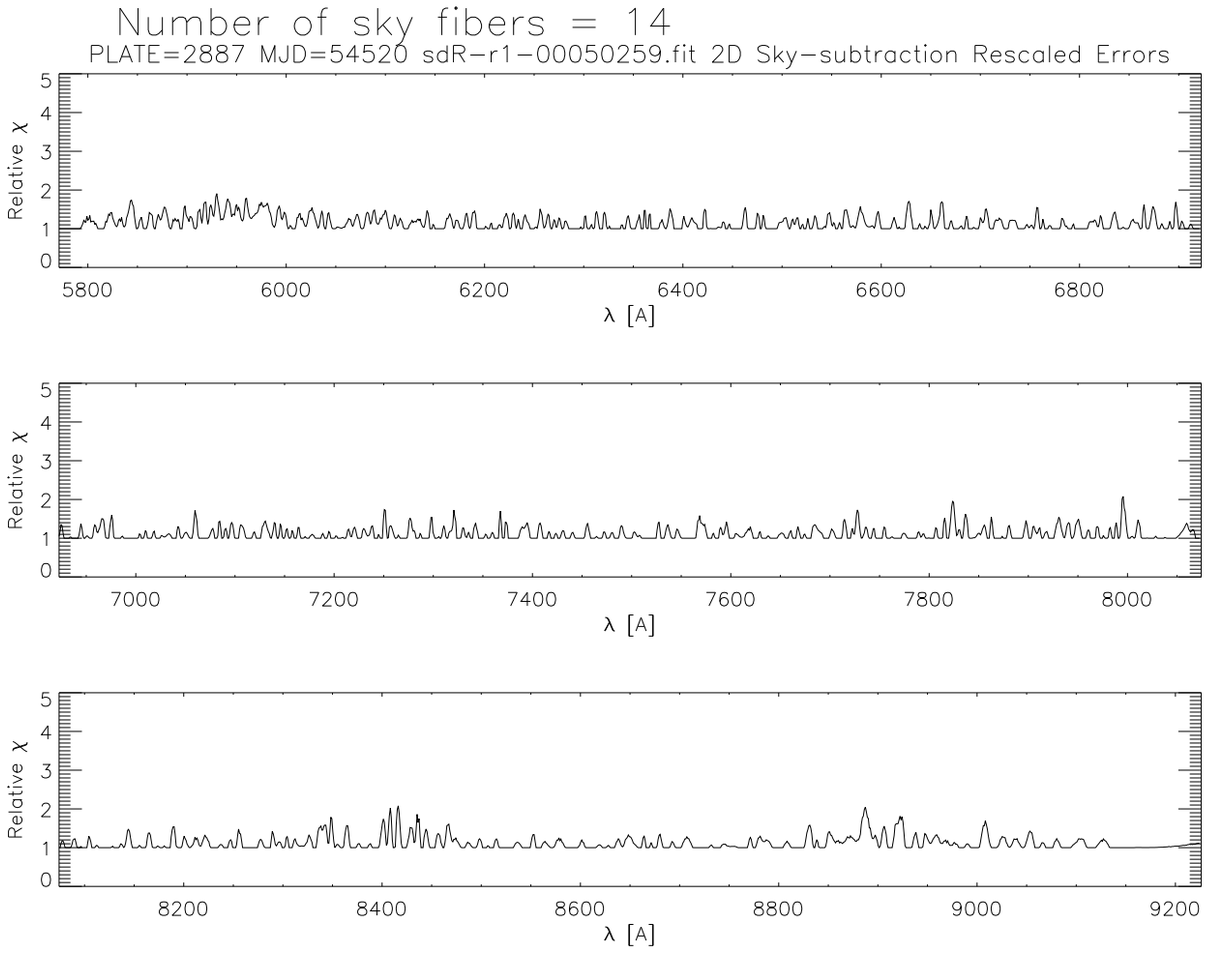

PLATE=2887 MJD=54520 sdR-r1-00050259.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

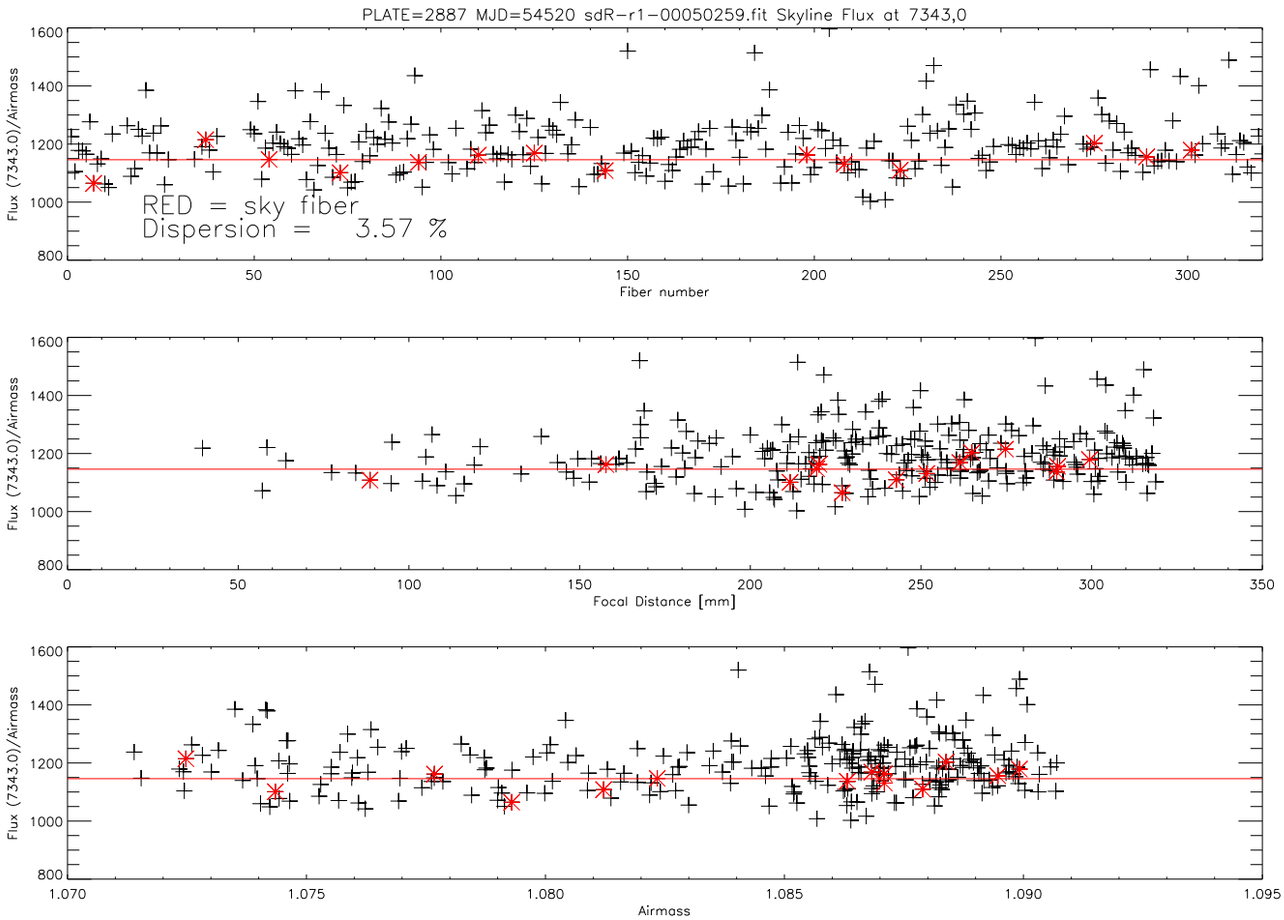

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-r1-00050259.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

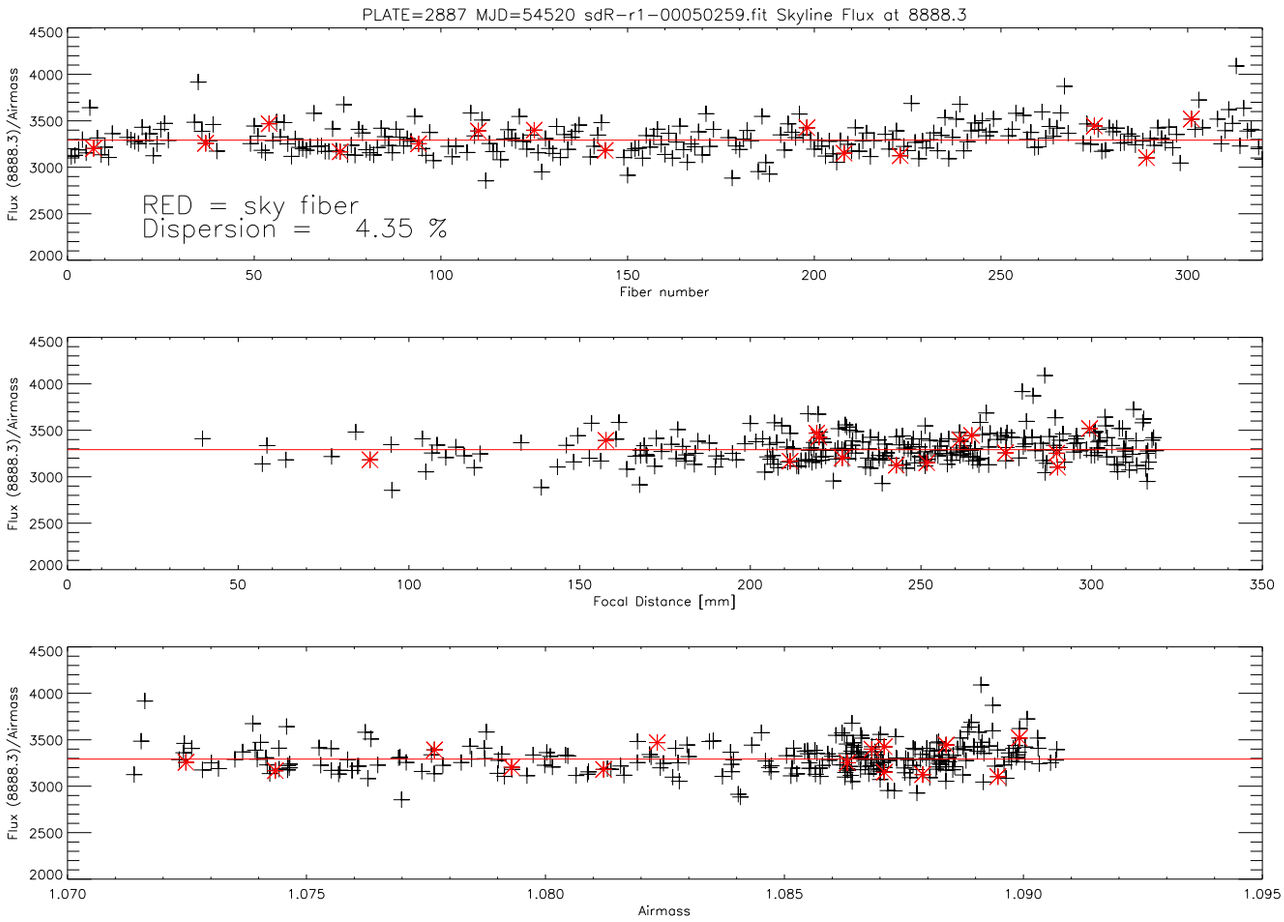

PLATE=2887 MJD=54520 sdR-r1-00050259.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

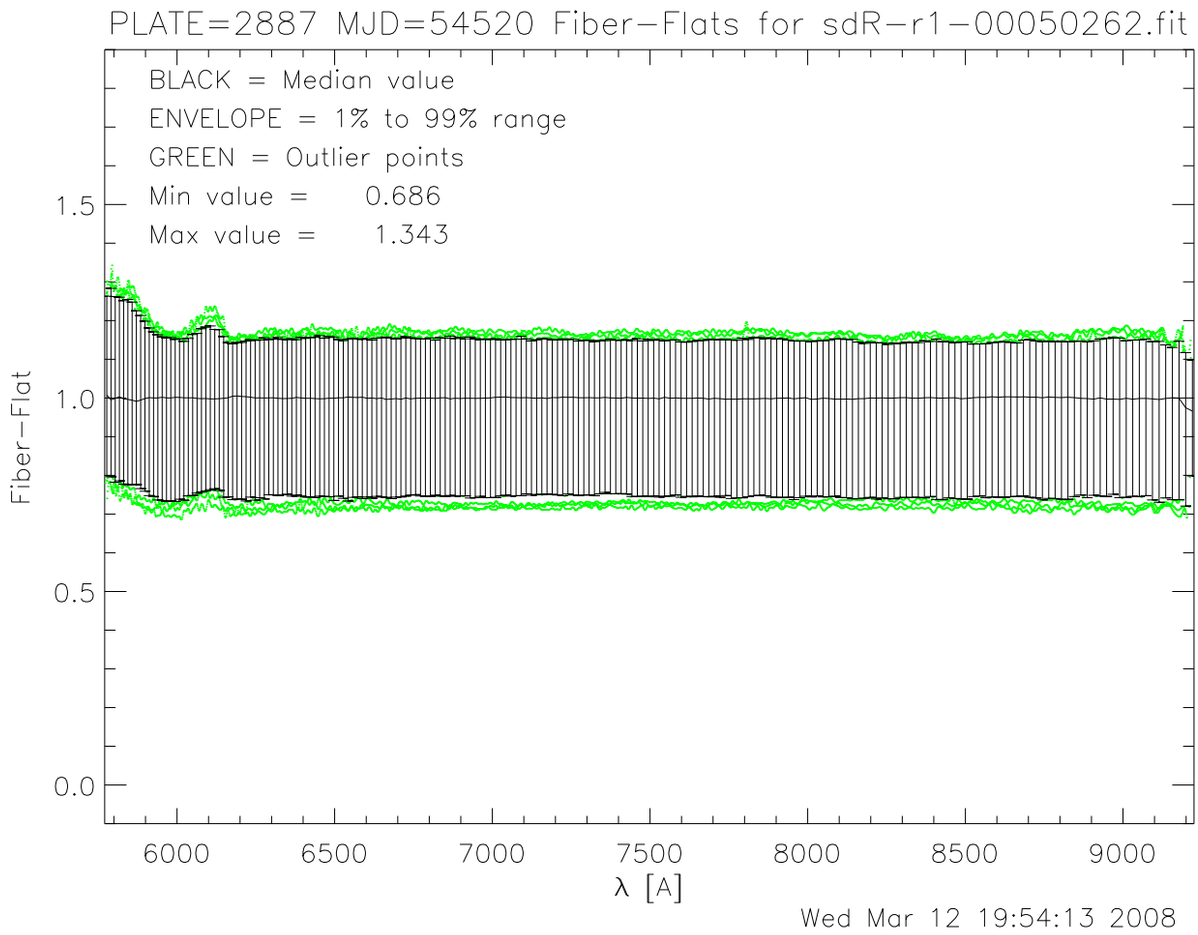

PLATE=2887 MJD=54520 sdR-r1-00050259.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

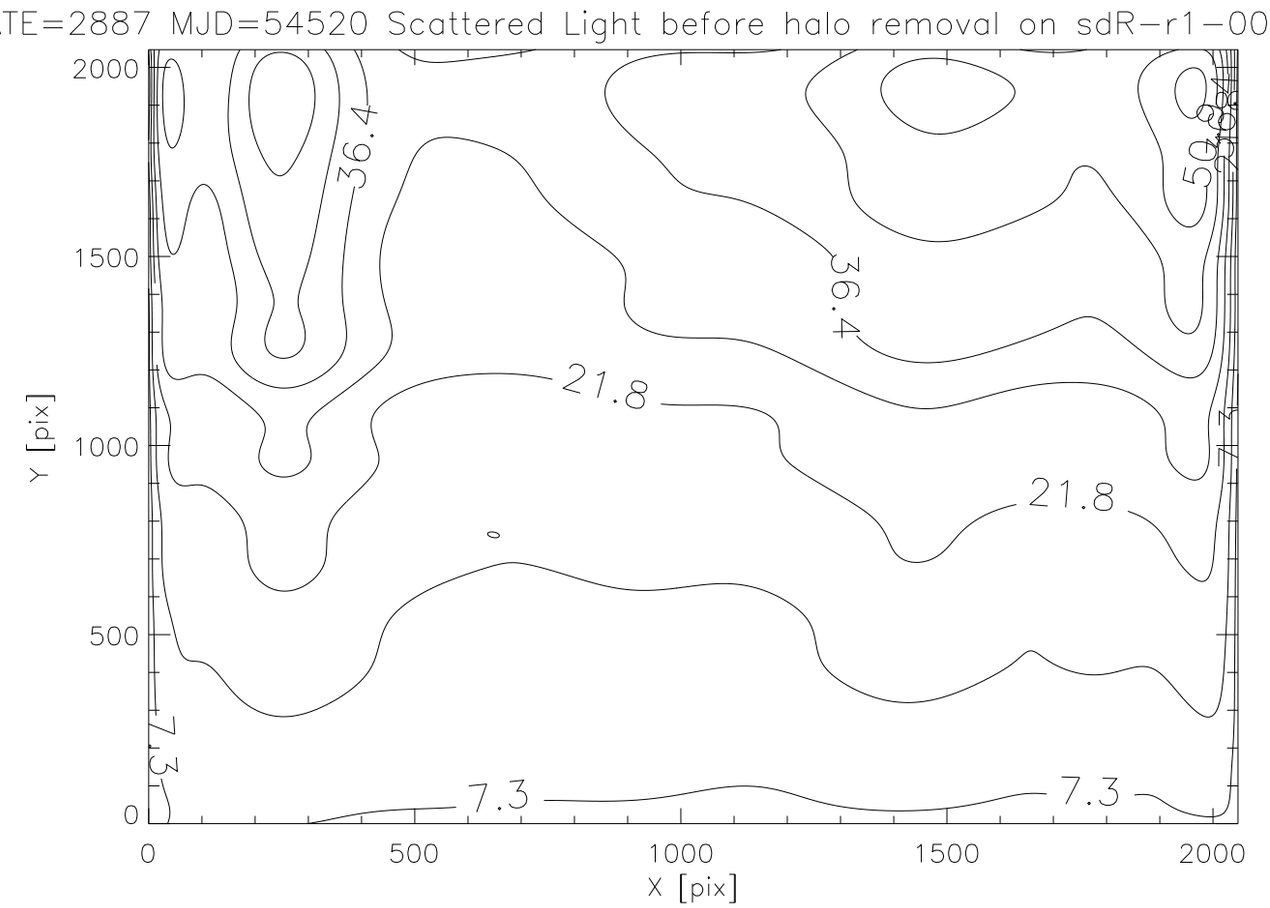

PLATE=2887 MJD=54520 sdR-r1-00050259.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

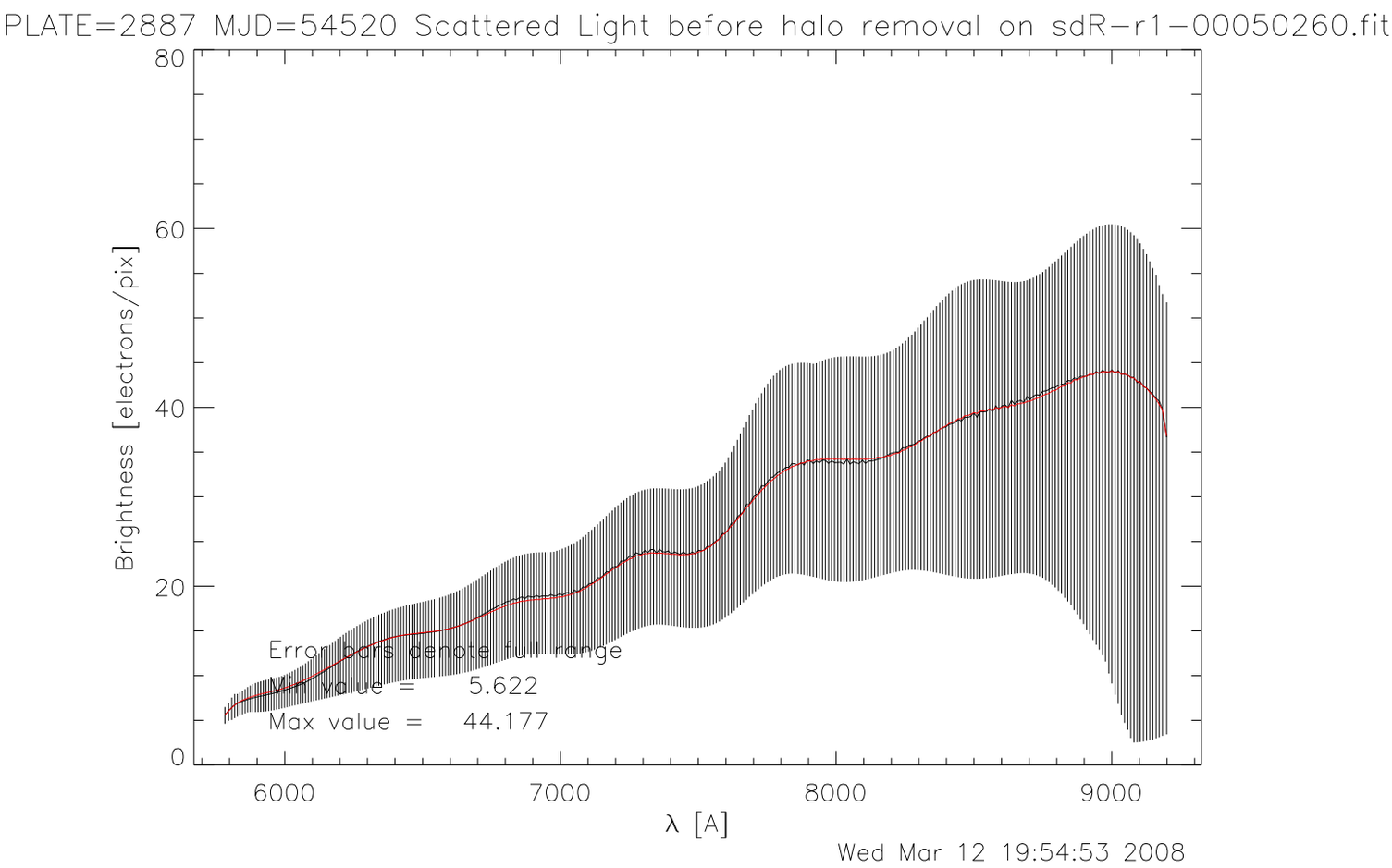

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-r1-00050259.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

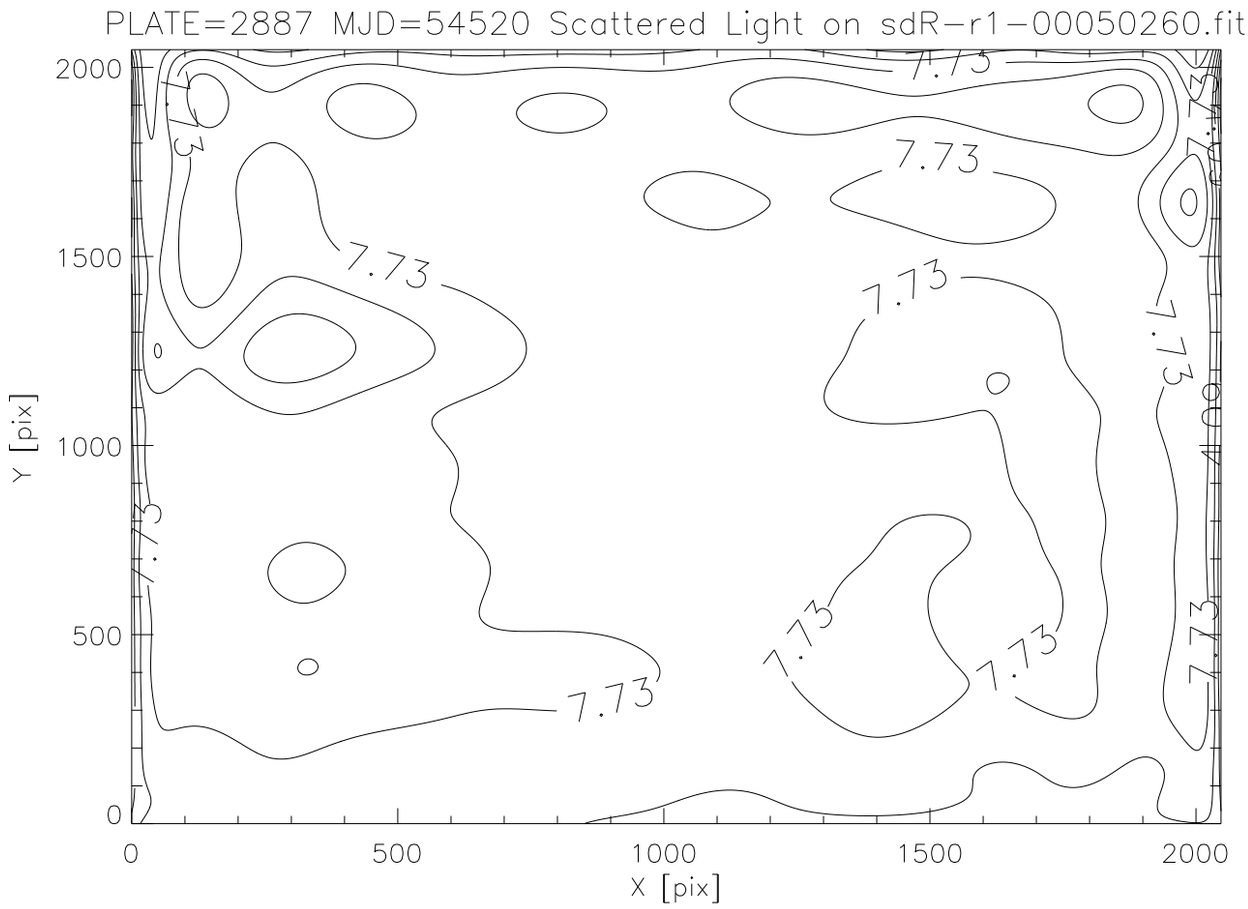

PLATE=2887 MJD=54520 sdR-r1-00050259.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.57 %
Fiber number
Focal Distance [mm]
Airmass

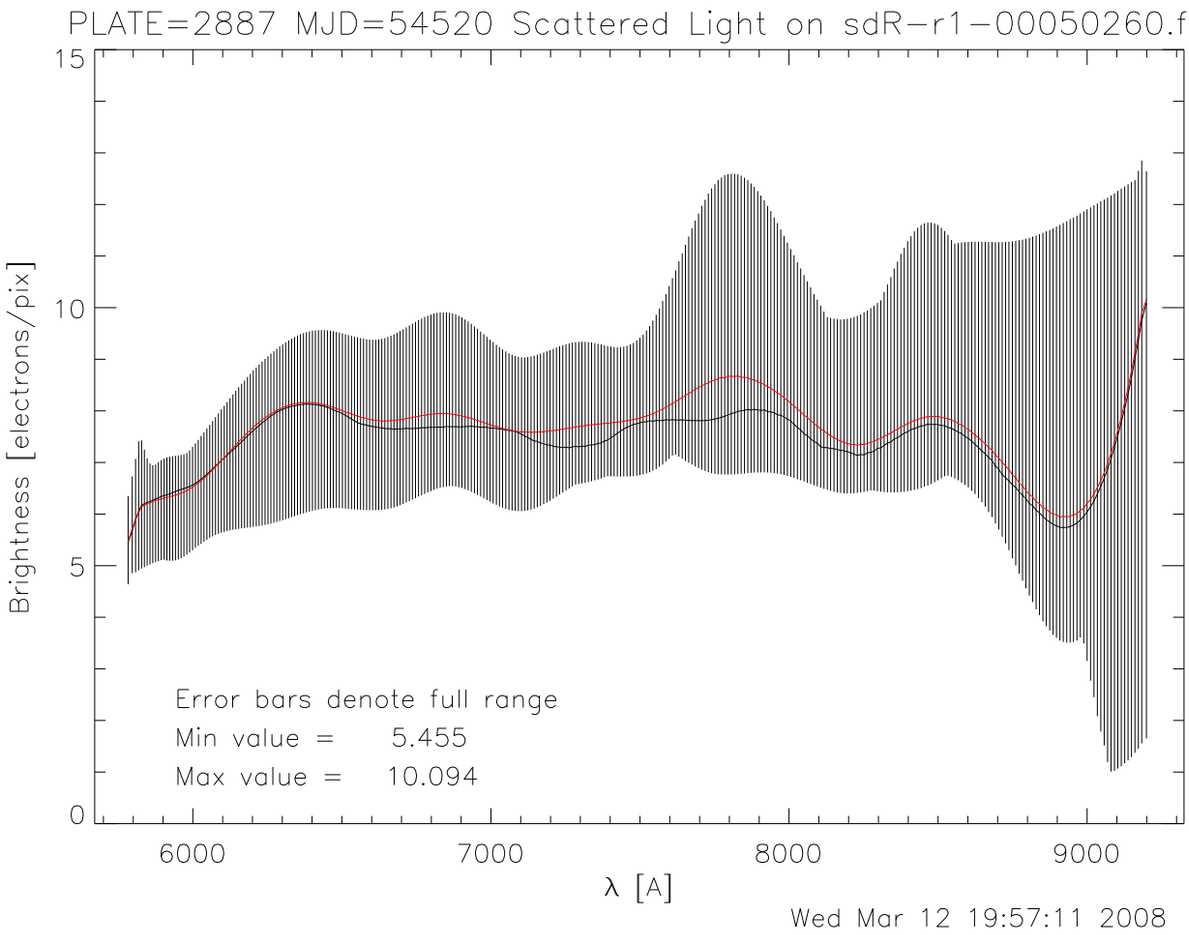

PLATE=2887 MJD=54520 sdR-r1-00050259.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.35 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

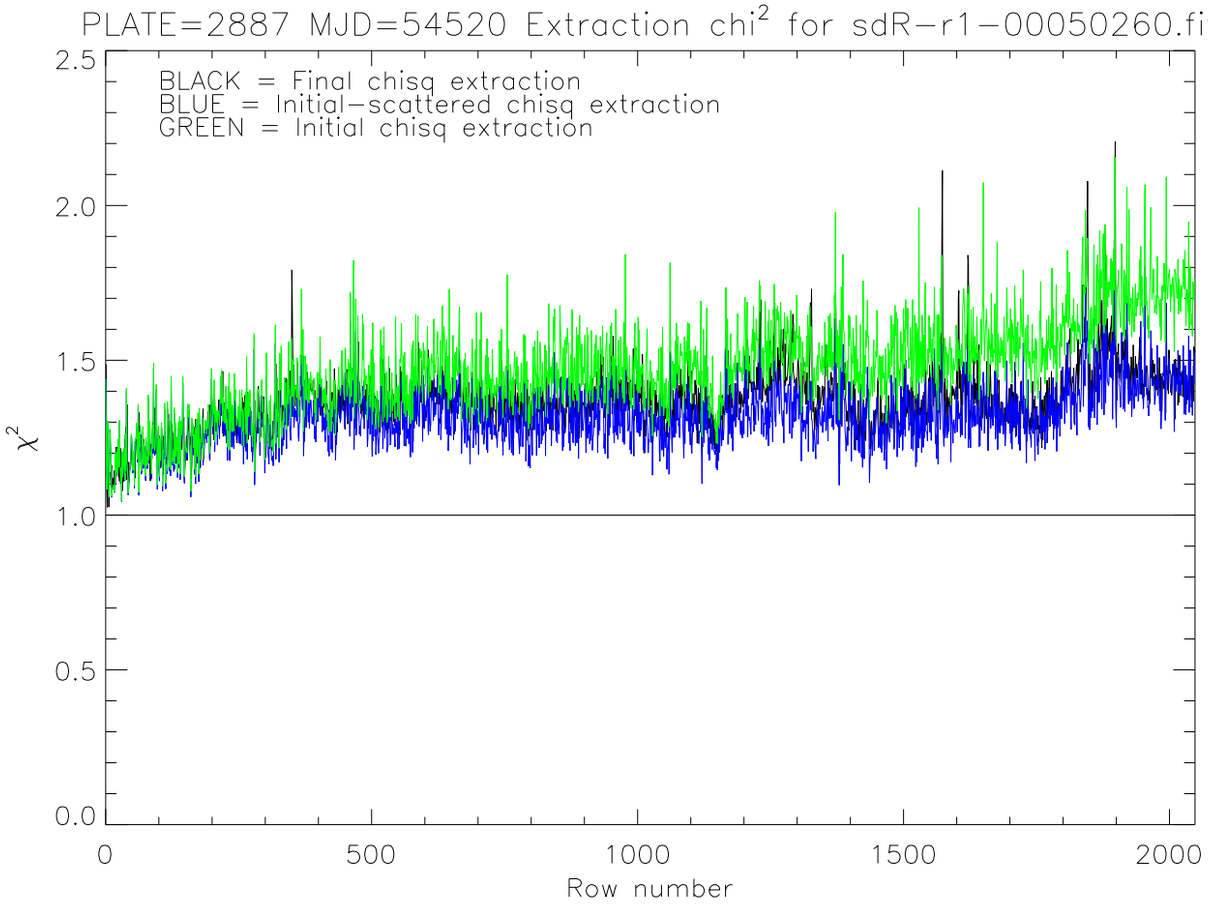

PLATE=2887 MJD=54520 Fiber-Flats for sdR-r1-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.686
Max value = 1.343
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 19:54:13 2008

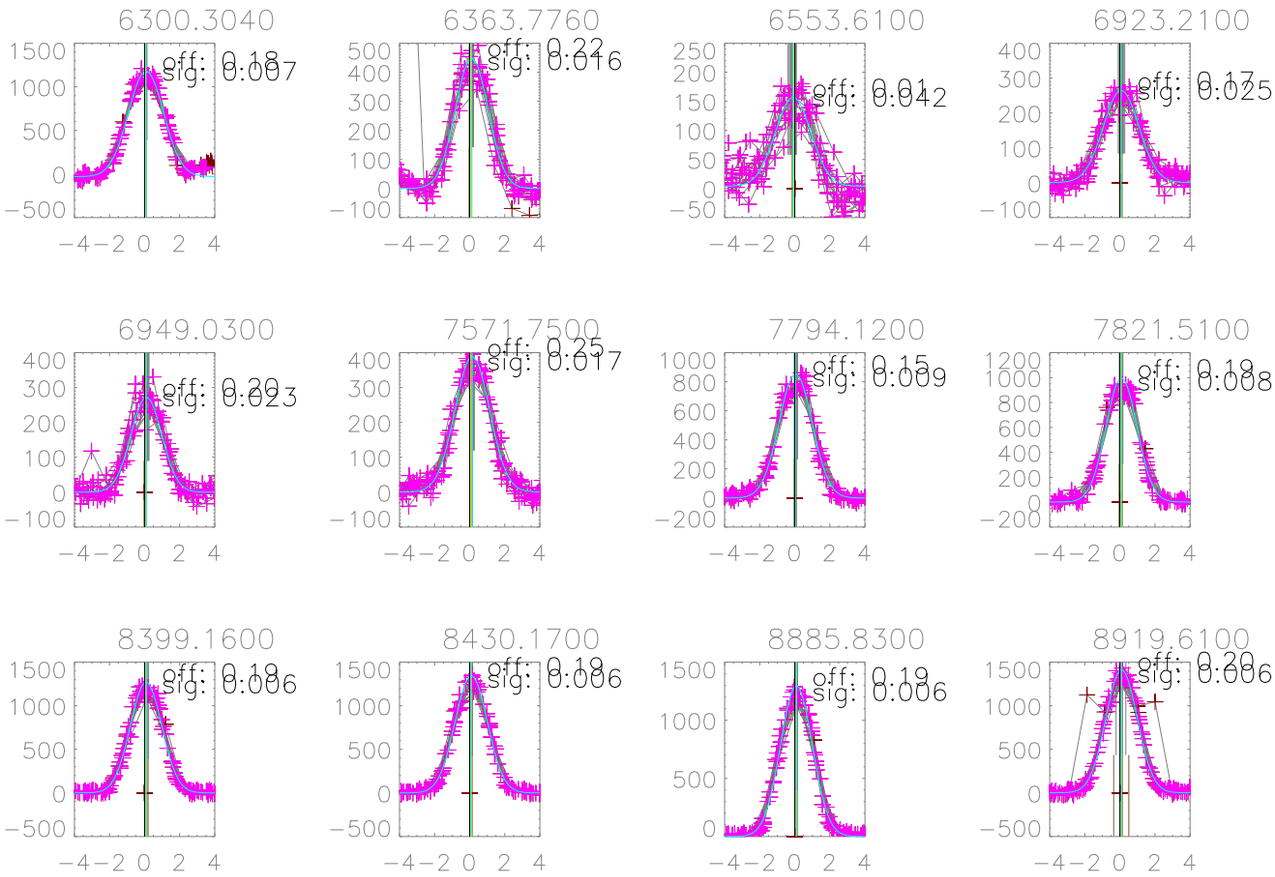

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r1-00050260.fit
36.4
36.4
21.8
21.8
7.3
7.3
7.3
Y [pix]
X [pix]
0
500
1000
1500
2000

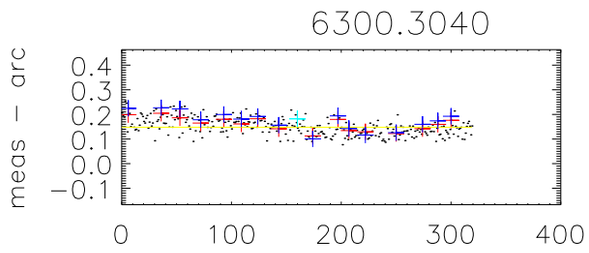

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r1-00050260.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.622
Max value = 44.177
Wed Mar 12 19:54:53 2008

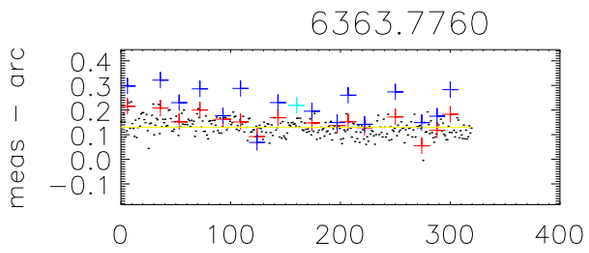

PLATE=2887 MJD=54520 Scattered Light on sdR-r1-00050260.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.73
0

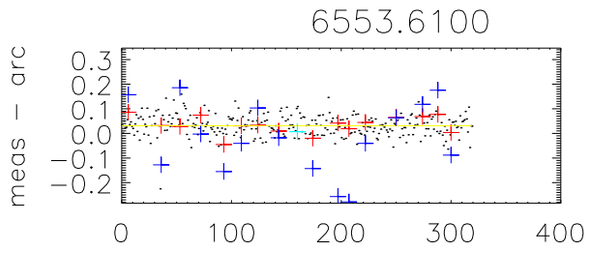

PLATE=2887 MJD=54520 Scattered Light on sdR-r1-00050260.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.455
Max value = 10.094
Wed Mar 12 19:57:11 2008

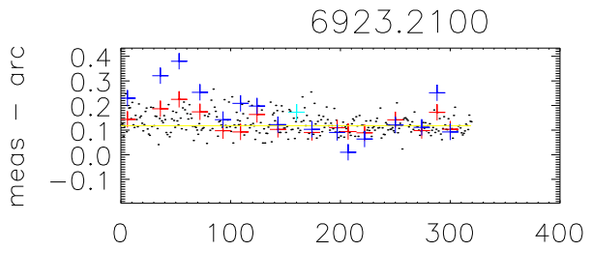

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-r1-00050260.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

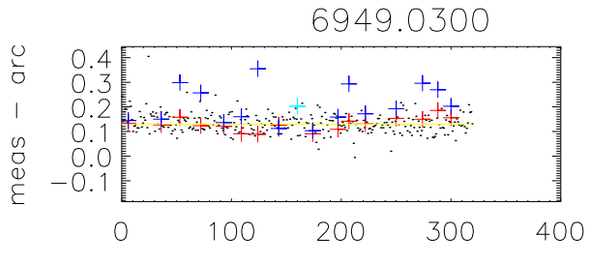

6300.3040
off: 0.18
sig: 0.007
6363.7760
off: 0.22
sig: 0.016
6553.6100
off: 0.01
sig: 0.042
6923.2100
off: 0.17
sig: 0.025
6949.0300
off: 0.20
sig: 0.023
7571.7500
off: 0.25
sig: 0.017
7794.1200
off: 0.15
sig: 0.009
7821.5100
off: 0.19
sig: 0.008
8399.1600
off: 0.19
sig: 0.006
8430.1700
off: 0.18
sig: 0.006
8885.8300
off: 0.19
sig: 0.006
8919.6100
off: 0.20
sig: 0.006

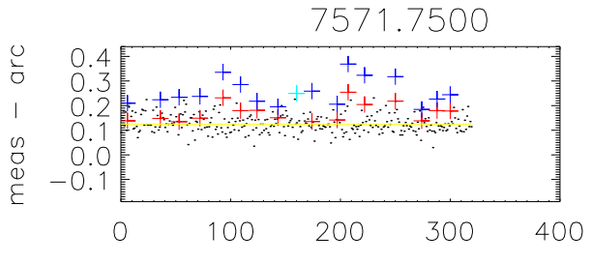

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

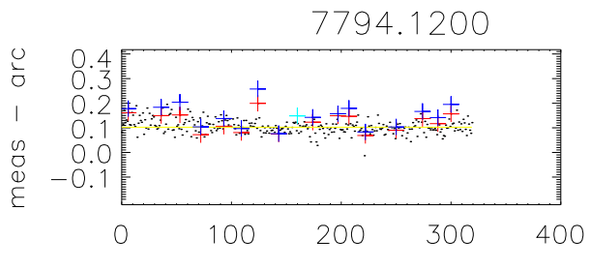

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

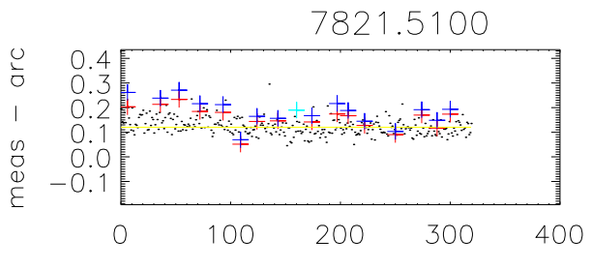

6553.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

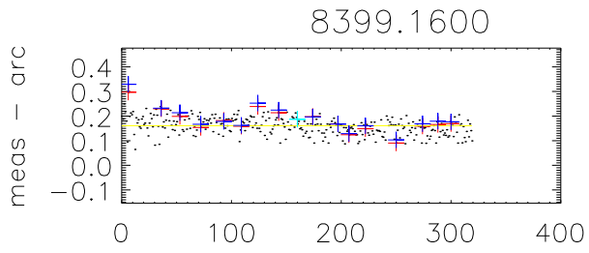

6923.2100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

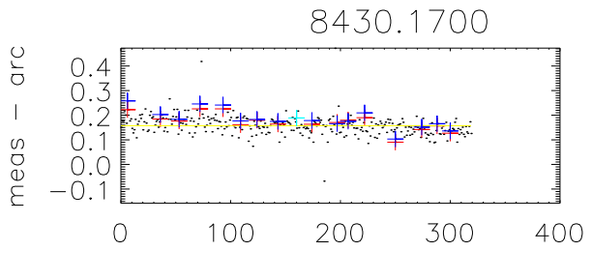

6949.0300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

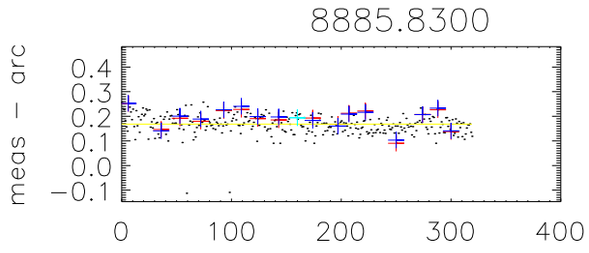

7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

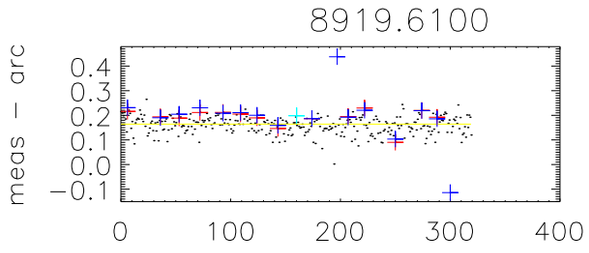

7794.1200
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

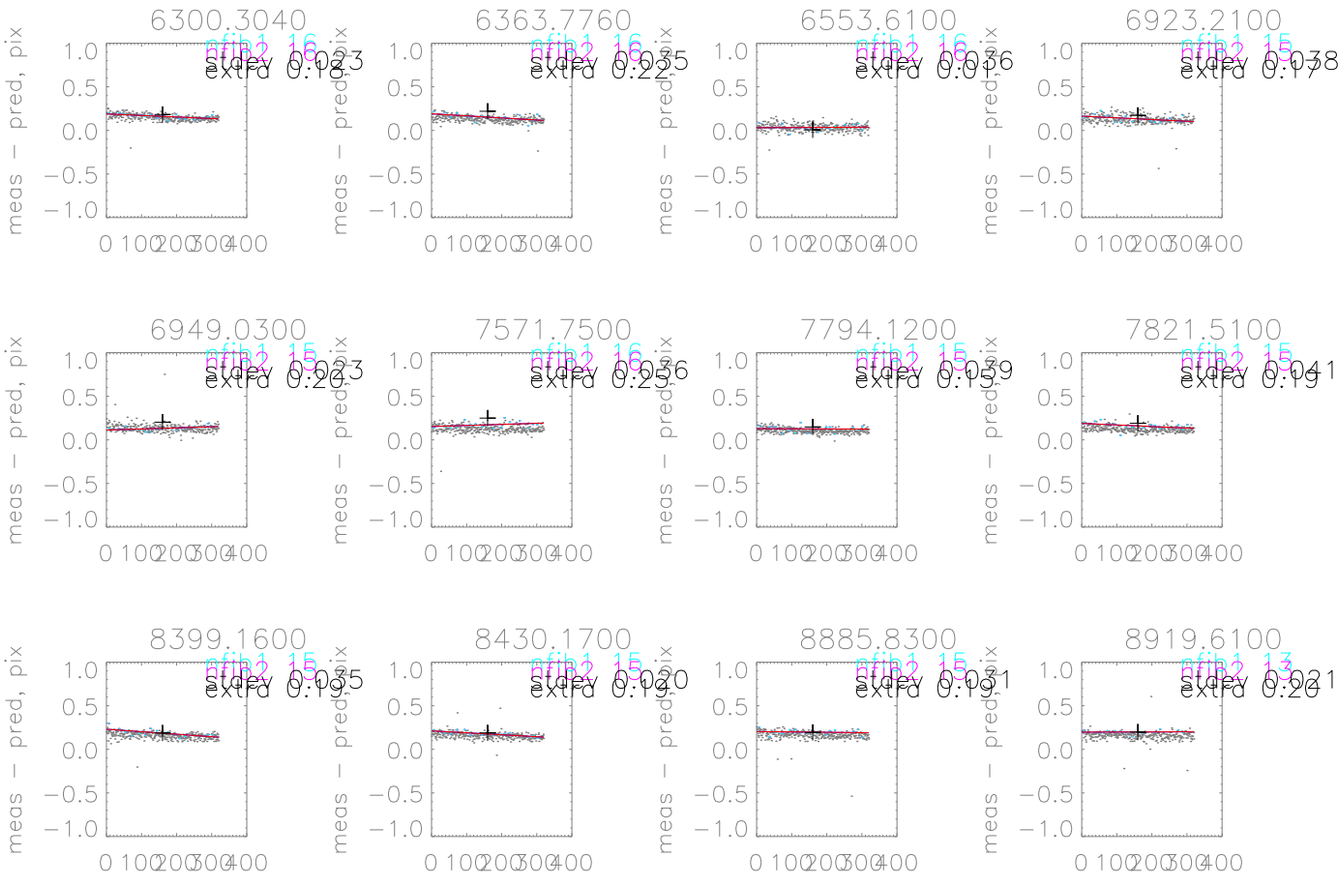

7821.5100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

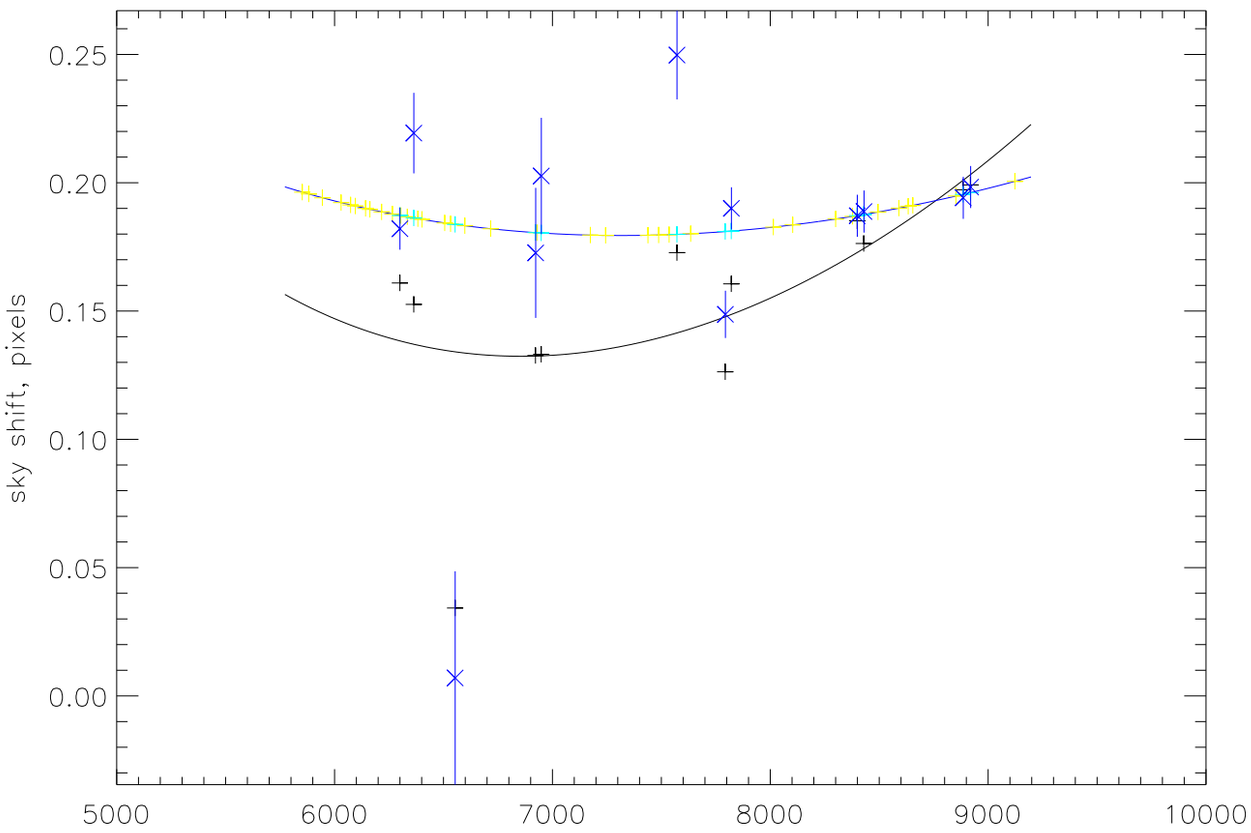

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

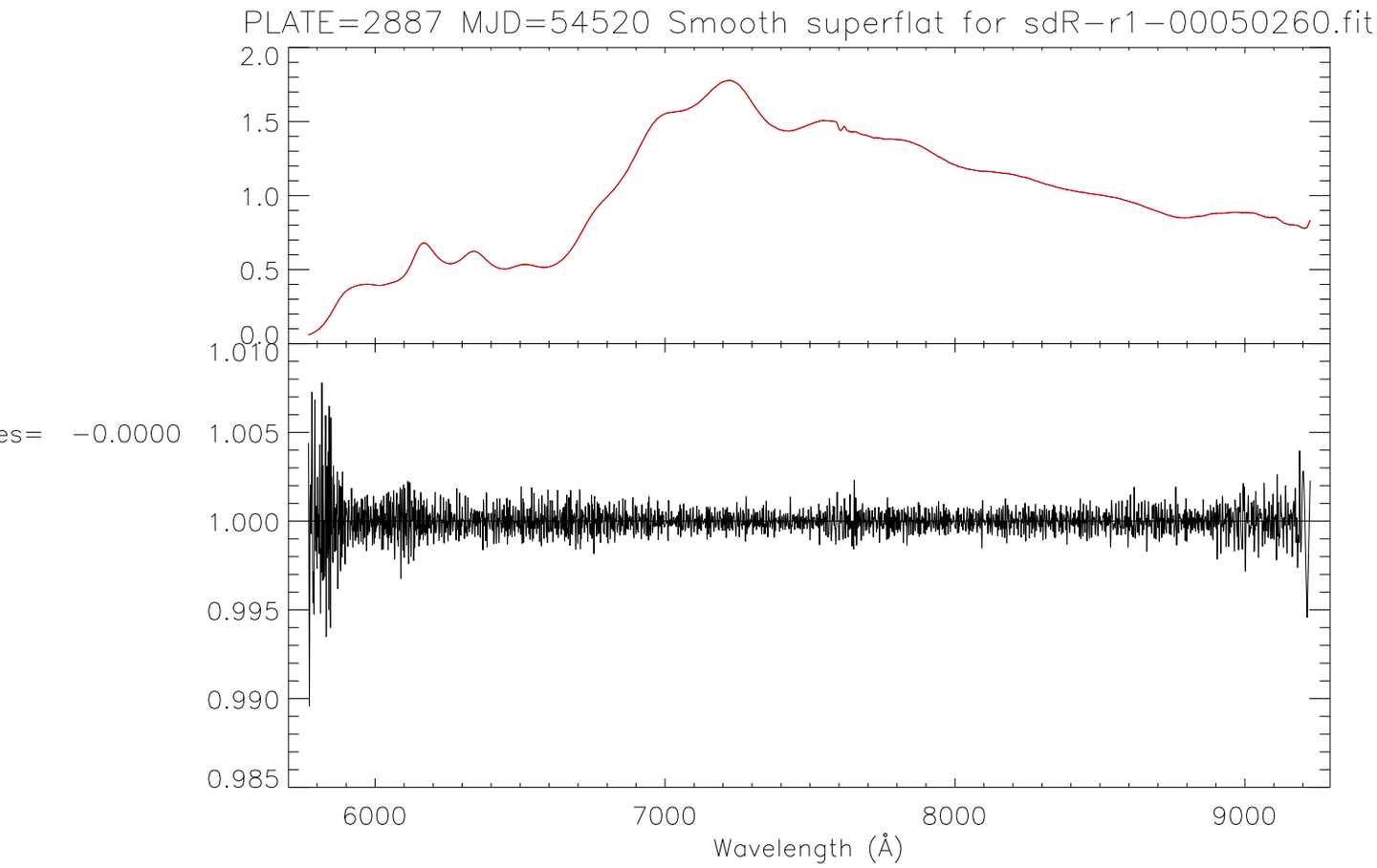

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

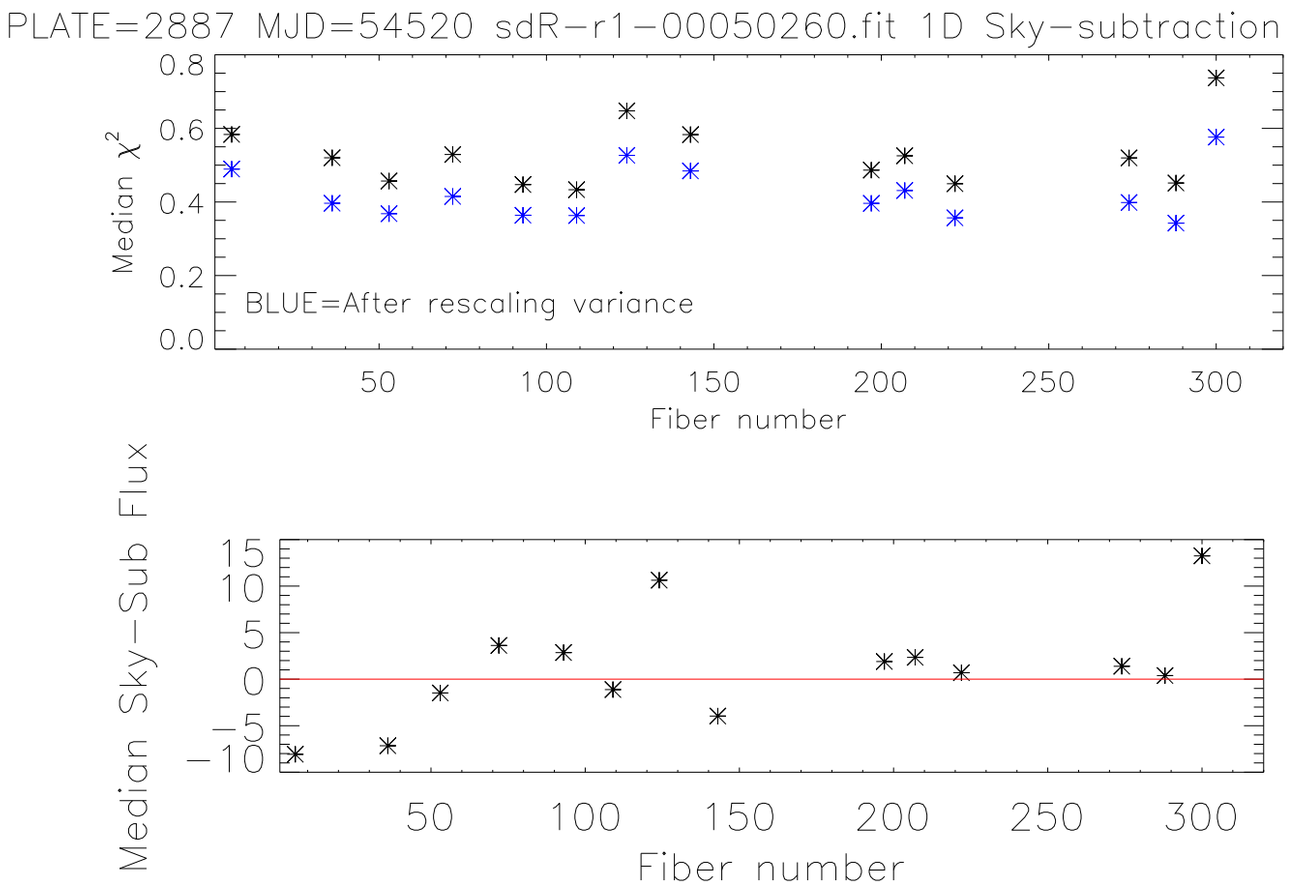

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

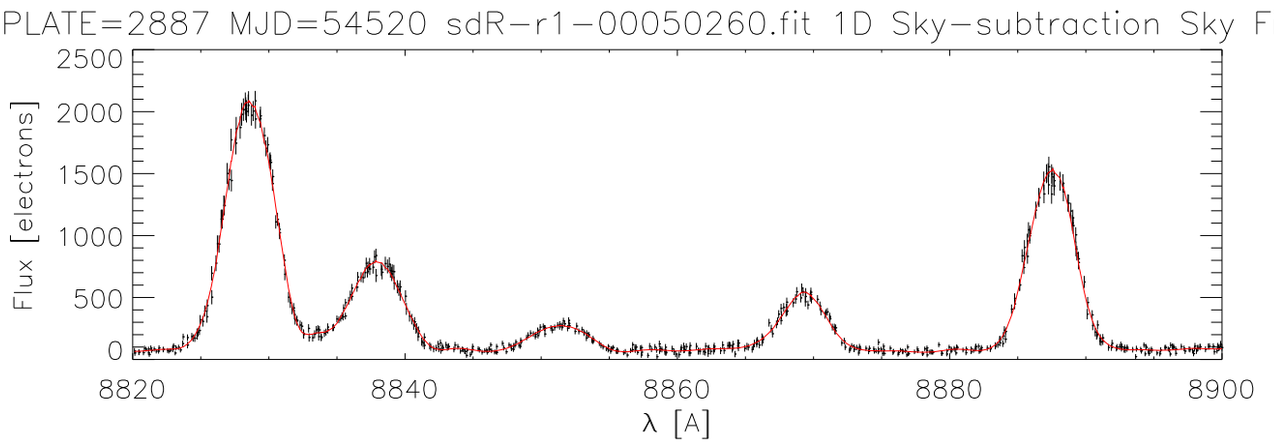

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

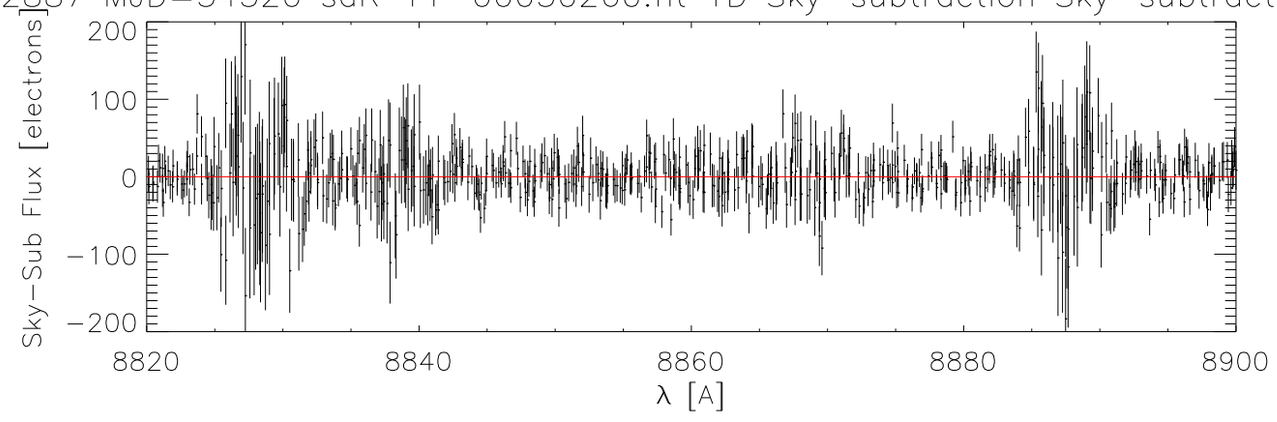

6300.3040
stdev 0.0123
extra 0.1823
6363.7760
stdev 0.0225
extra 0.2255
6553.6100
stdev 0.0046
extra 0.0146
6923.2100
stdev 0.038
extra 0.17
6949.0300
stdev 0.0223
extra 0.2023
7571.7500
stdev 0.0256
extra 0.2556
7794.1200
stdev 0.0139
extra 0.1539
7821.5100
stdev 0.041
extra 0.19
8399.1600
stdev 0.0135
extra 0.1935
8430.1700
stdev 0.0120
extra 0.1920
8885.8300
stdev 0.0131
extra 0.1931
8919.6100
stdev 0.021
extra 0.20
meas − pred, pix
afib1 16
afib2 16
afib1 15
afib2 15
afib1 13
afib2 13

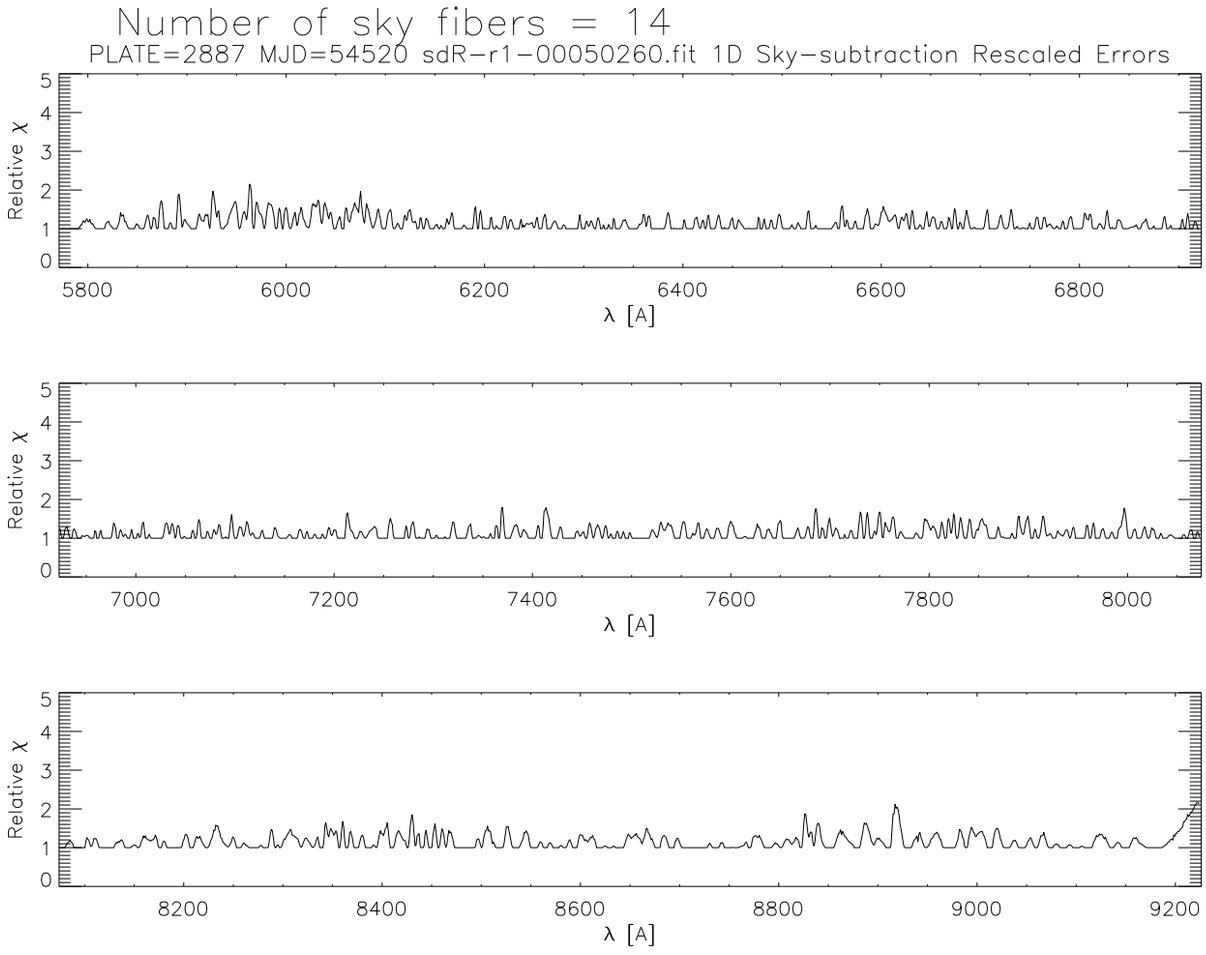

sky shift, pixels
0.25
0.20
0.15
0.10
0.05
0.00
5000
6000
7000
8000
9000
10000

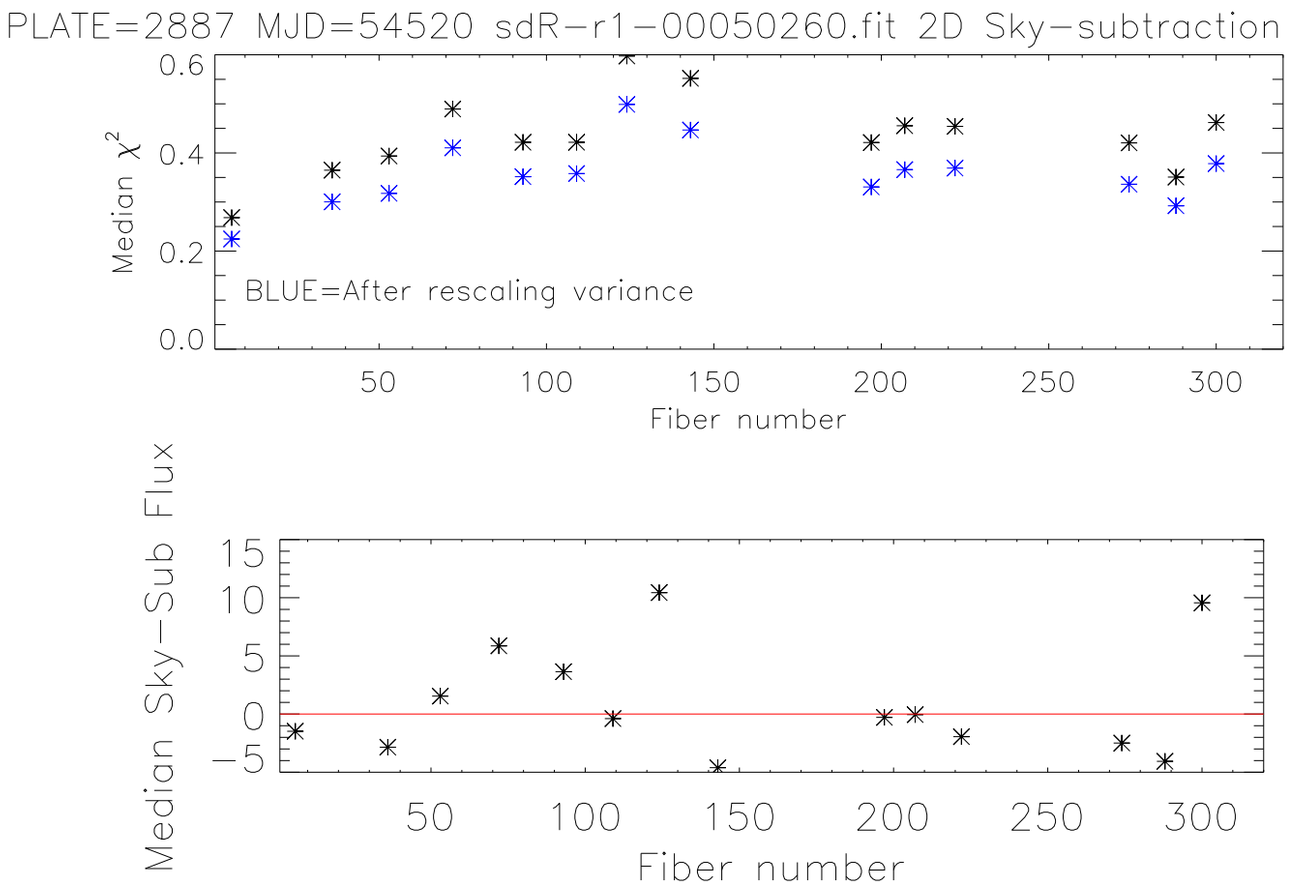

PLATE=2887 MJD=54520 Smooth superflat for sdR-r1-00050260.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)


PLATE=2887 MJD=54520 sdR-r1-00050260.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

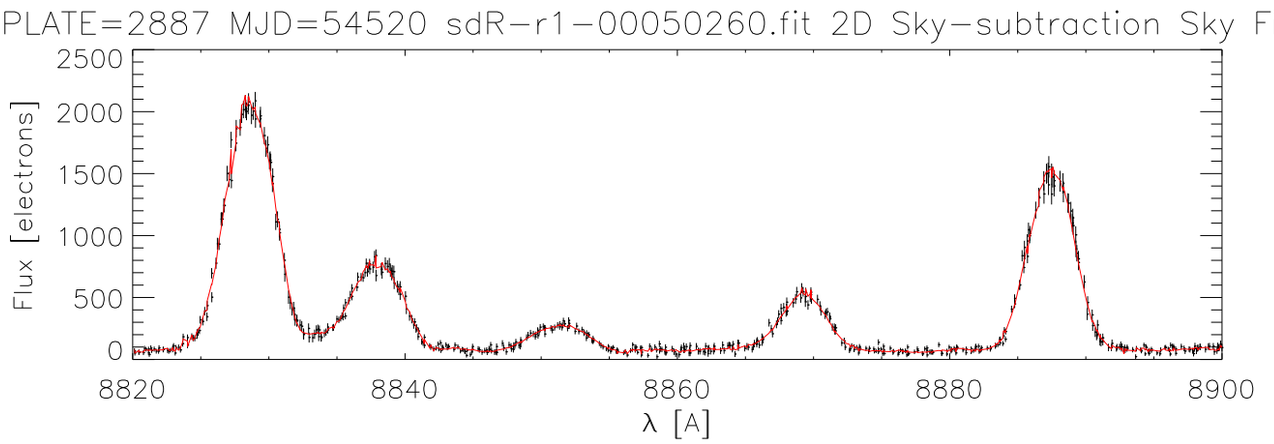

PLATE=2887 MJD=54520 sdR-r1-00050260.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

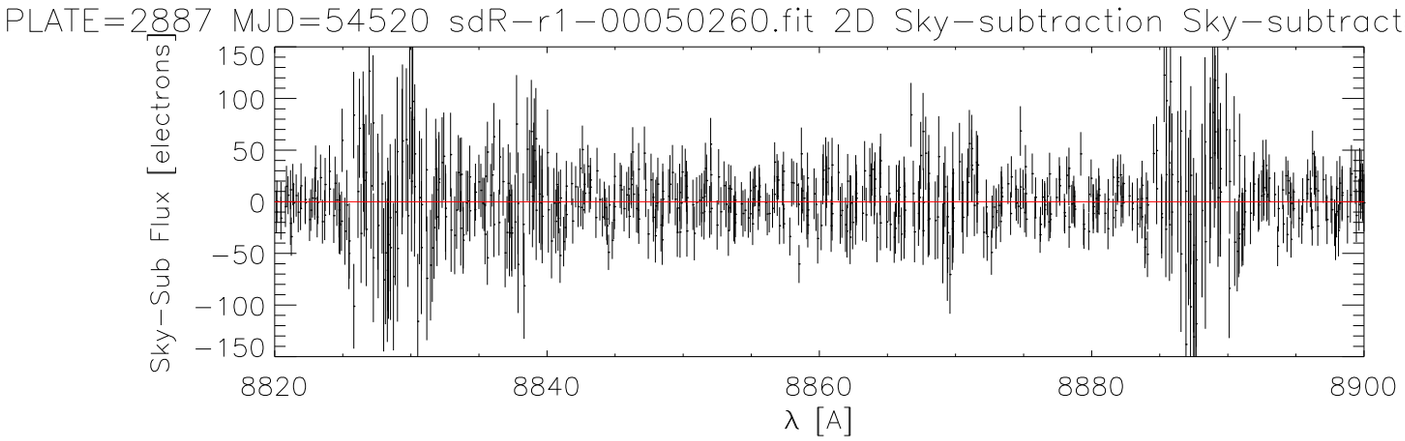

PLATE=2887 MJD=54520 sdR-r1-00050260.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

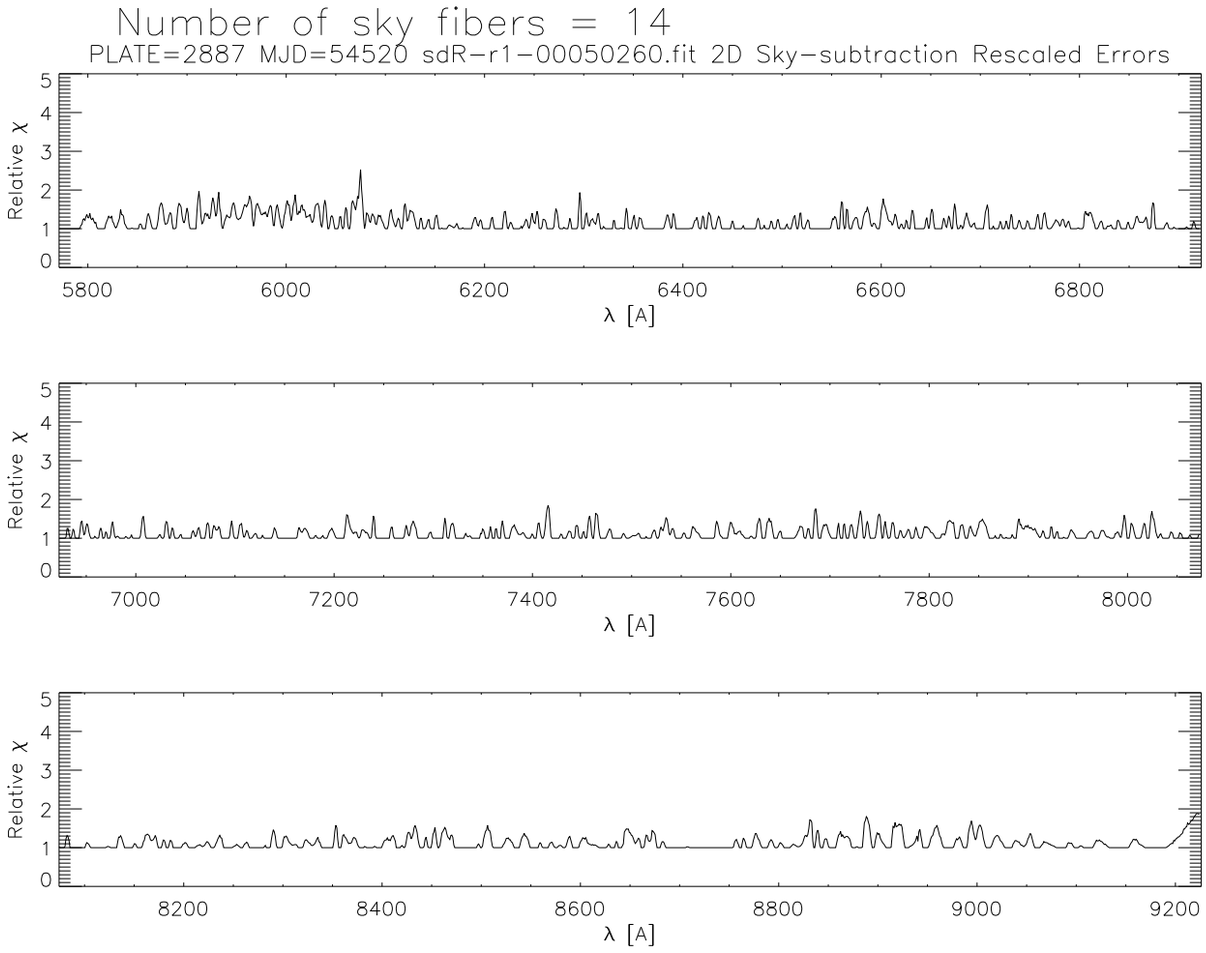

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-r1-00050260.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

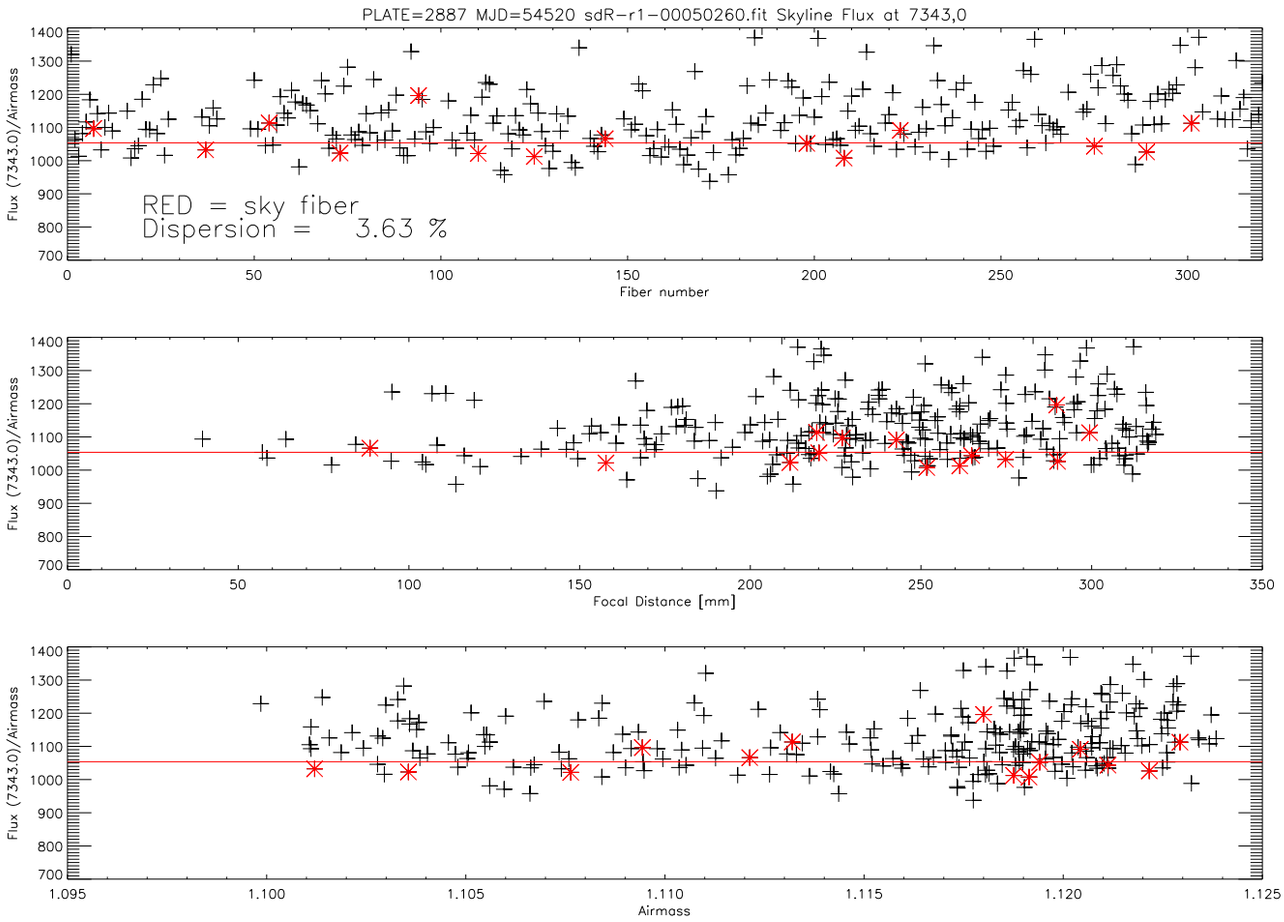

PLATE=2887 MJD=54520 sdR-r1-00050260.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

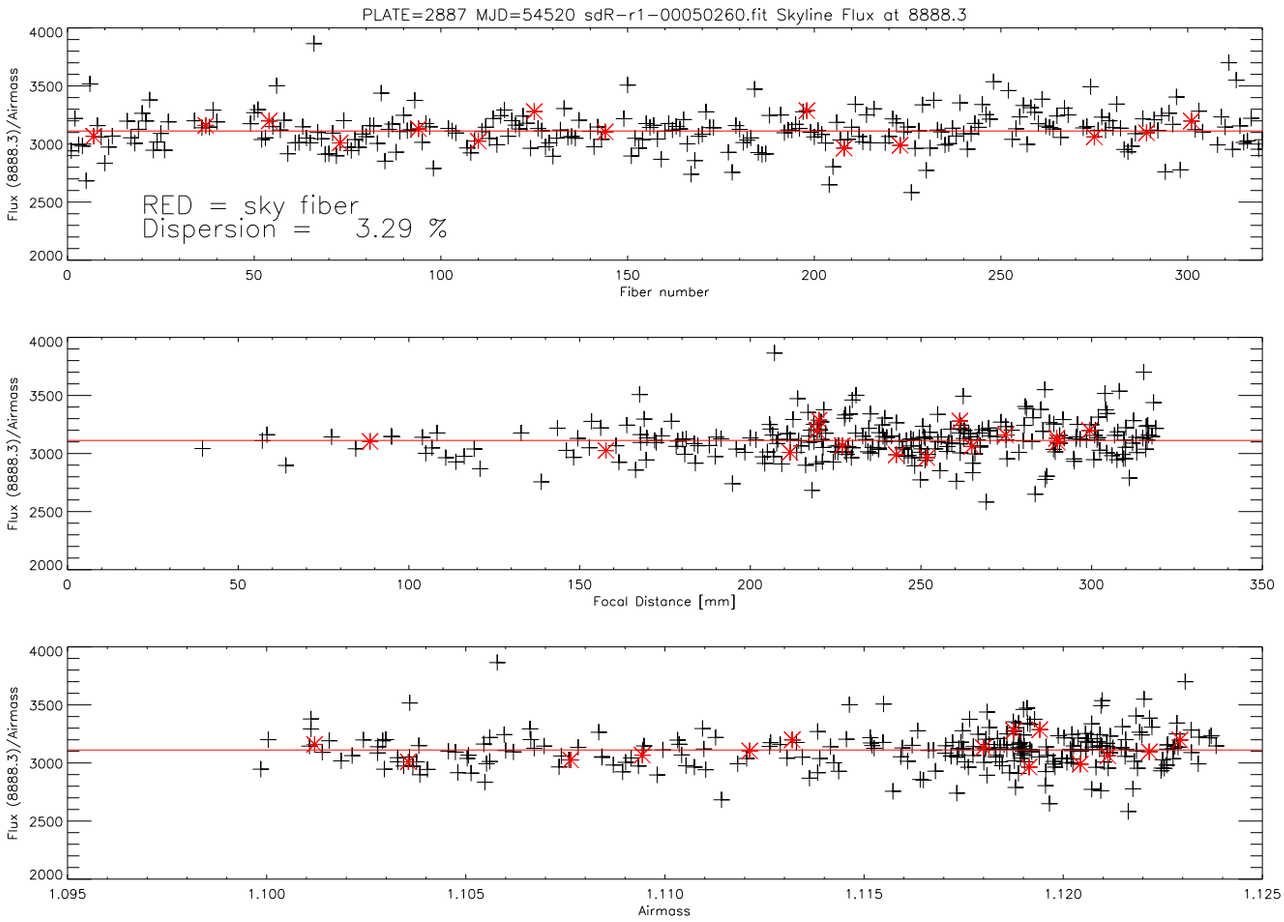
Median Sky-Sub Flux
15
10
5
0
-5
50
100
150
200
250
300
Fiber number

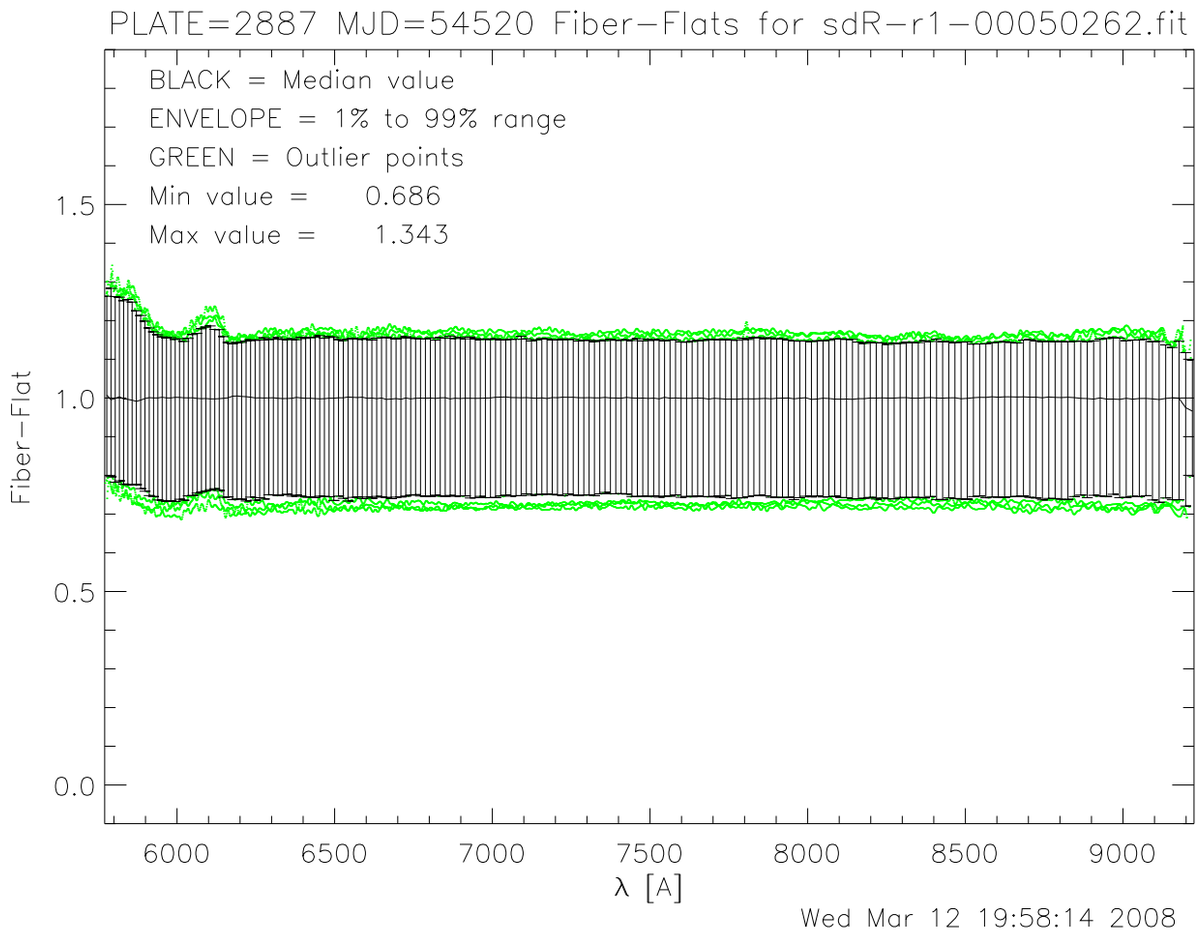

PLATE=2887 MJD=54520 sdR-r1-00050260.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

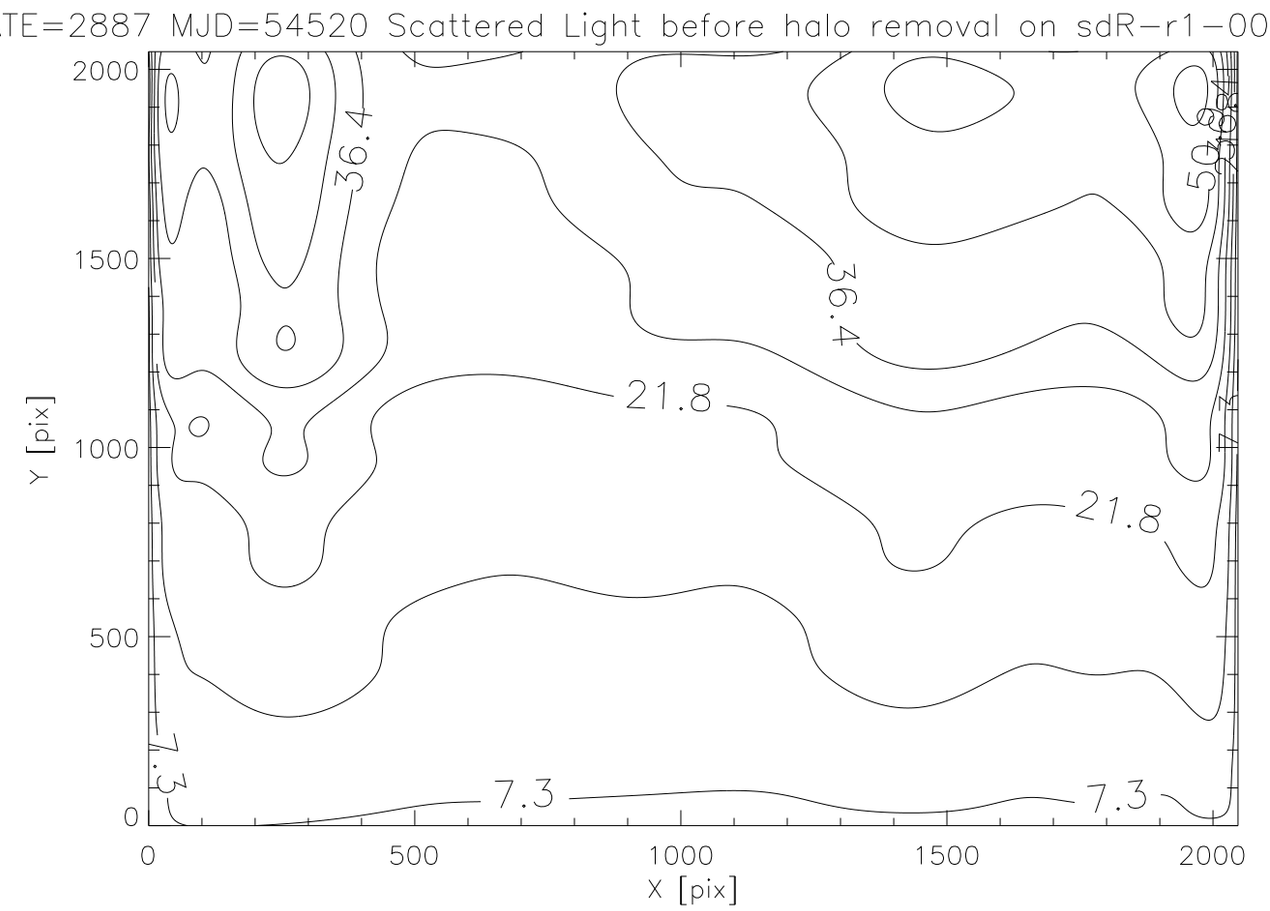

PLATE=2887 MJD=54520 sdR-r1-00050260.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

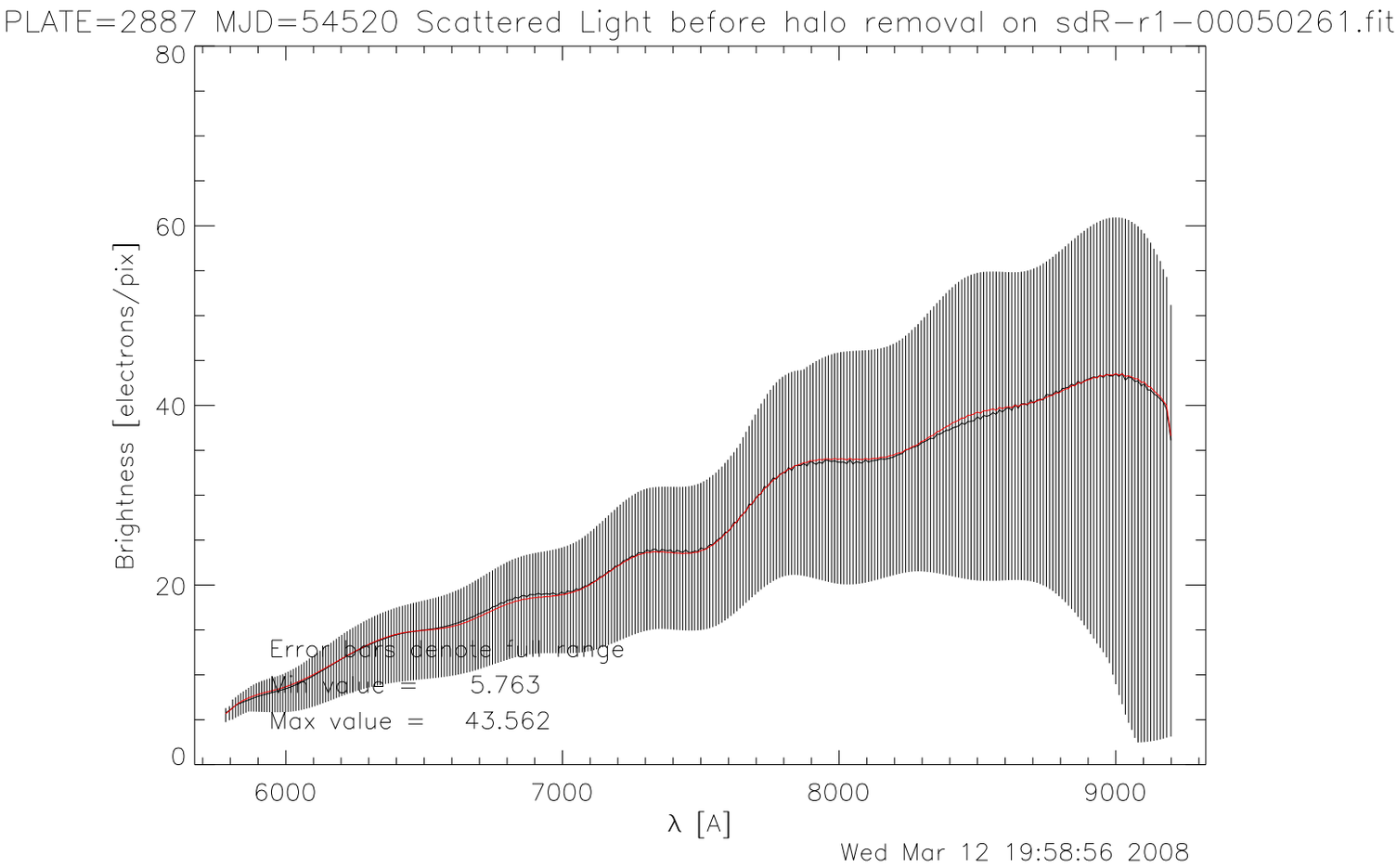

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-r1-00050260.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

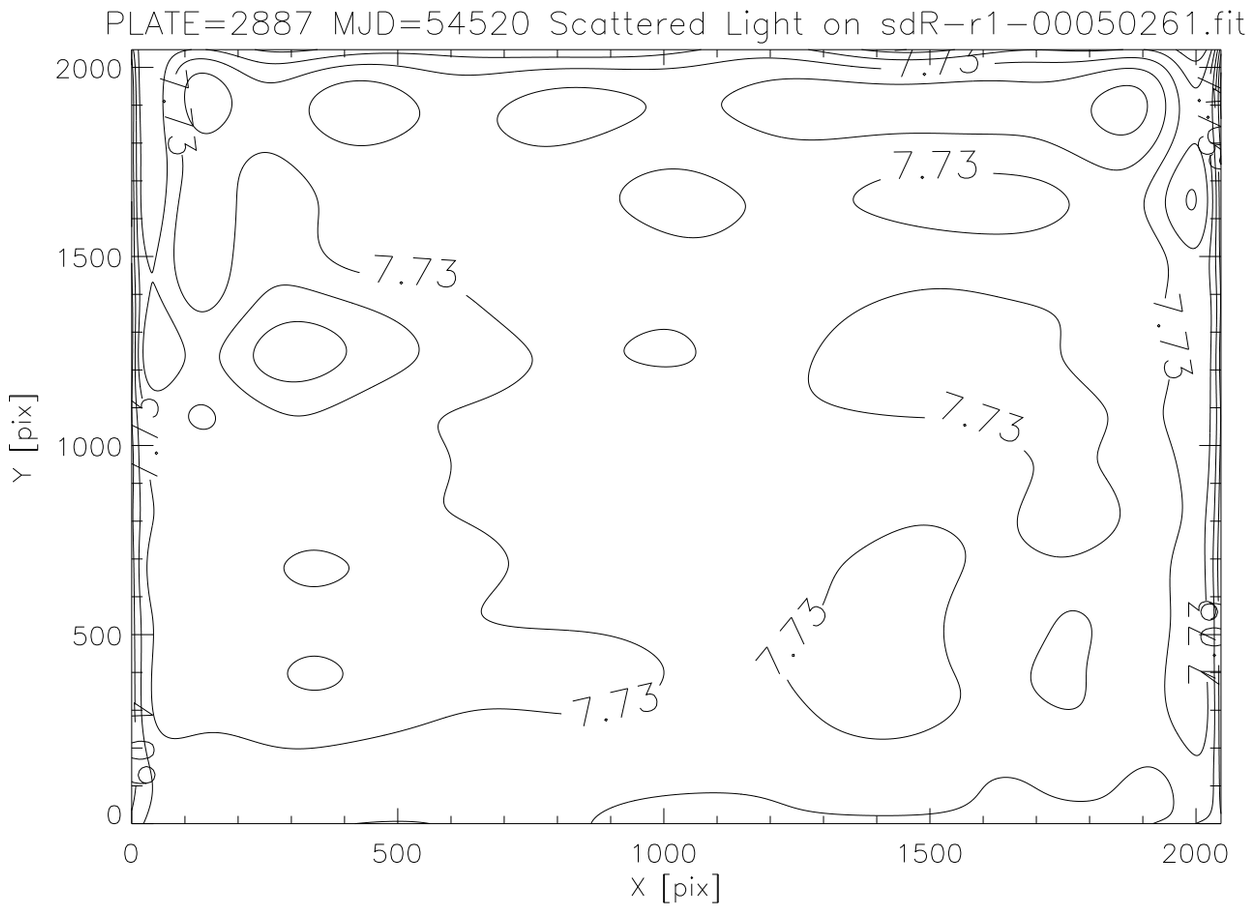

PLATE=2887 MJD=54520 sdR-r1-00050260.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.63 %
Fiber number
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

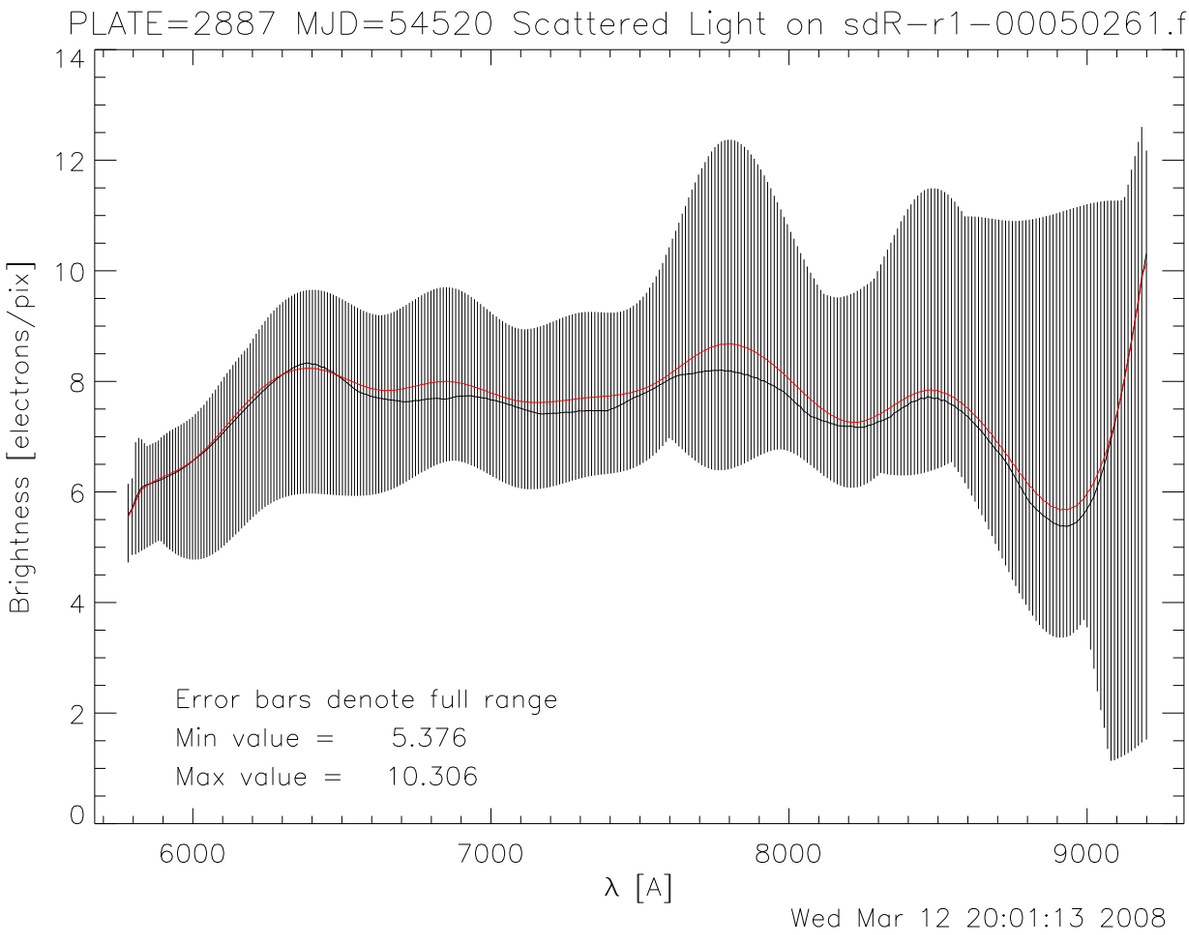

PLATE=2887 MJD=54520 sdR-r1-00050260.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.29 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

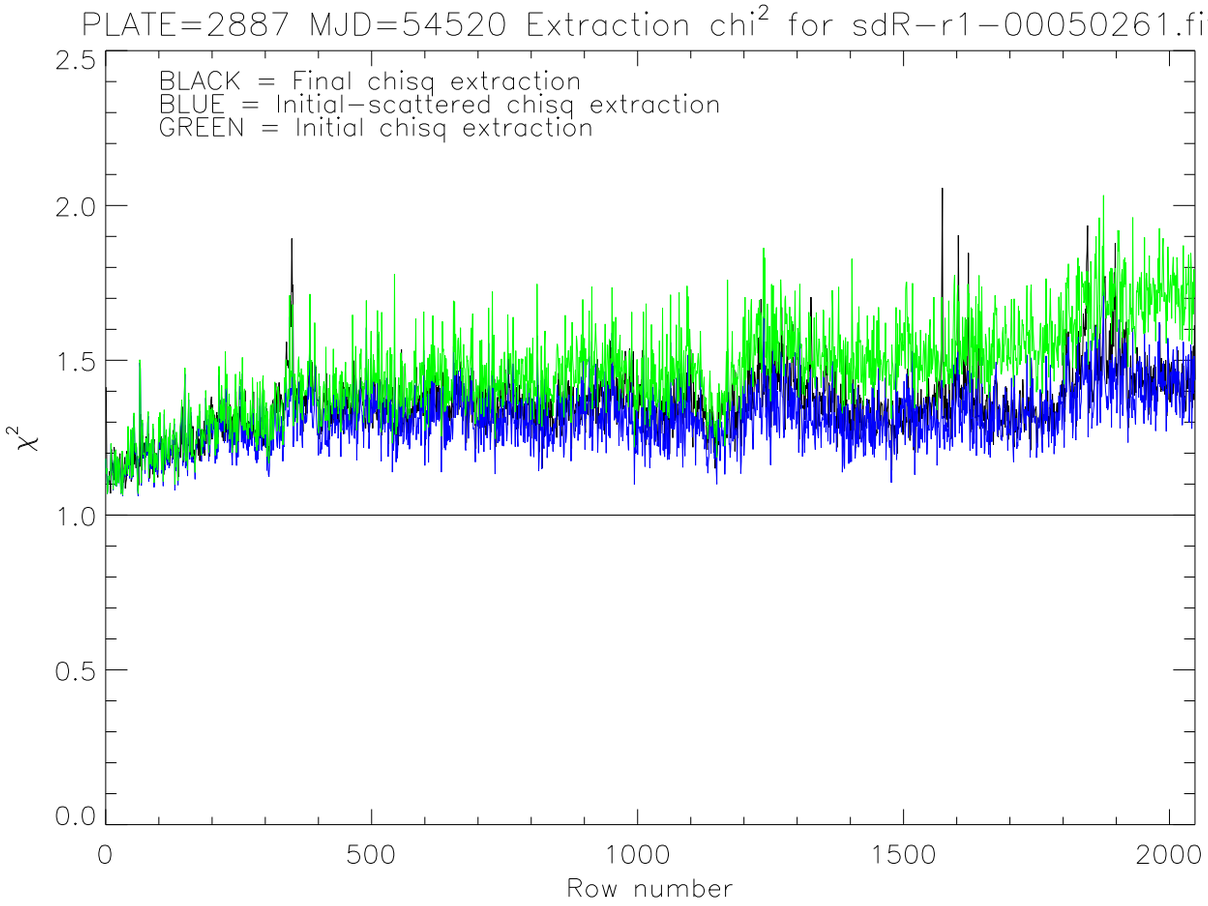

PLATE=2887 MJD=54520 Fiber-Flats for sdR-r1-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.686
Max value = 1.343
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 19:58:14 2008

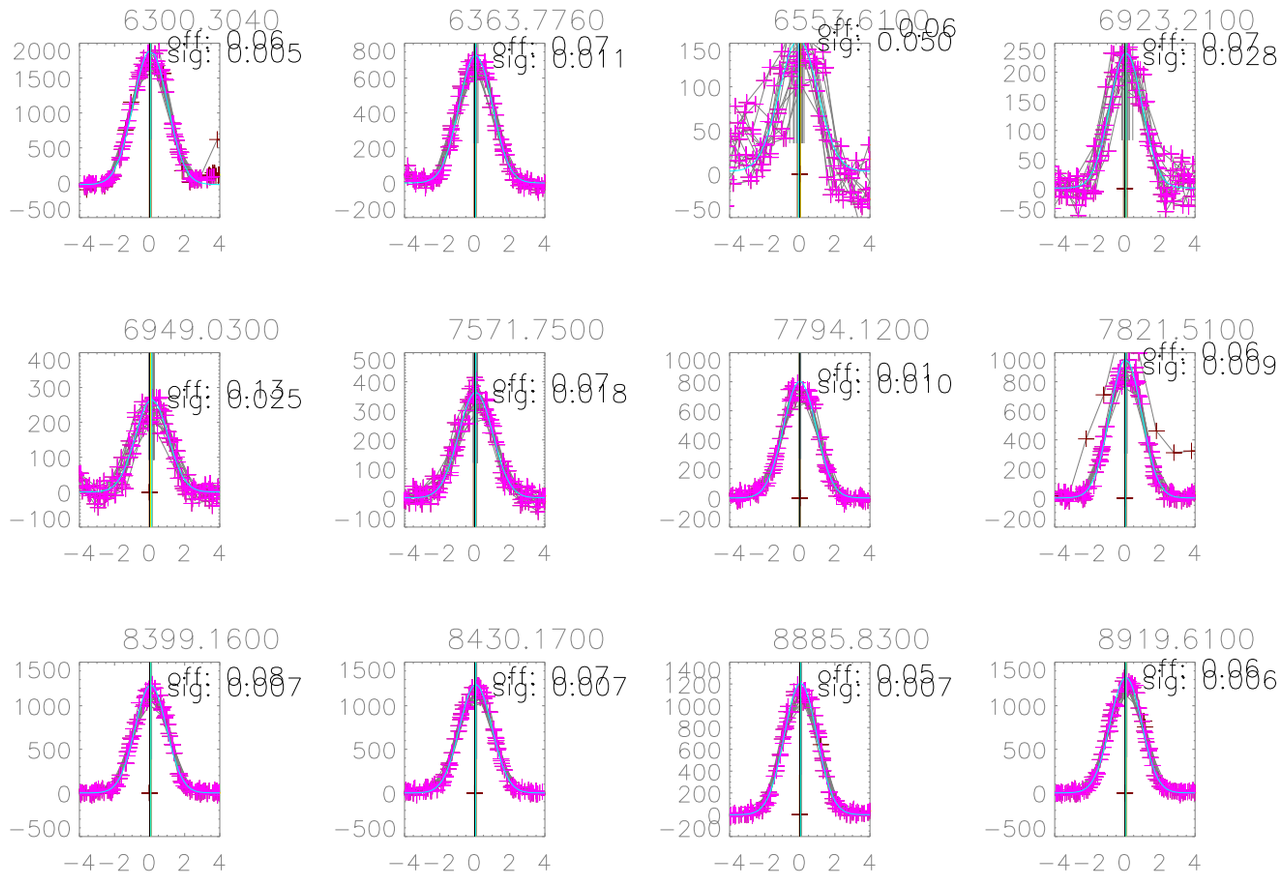

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r1-00050261.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
36.4
36.4
21.8
21.8
7.3
7.3
7.3
0
0

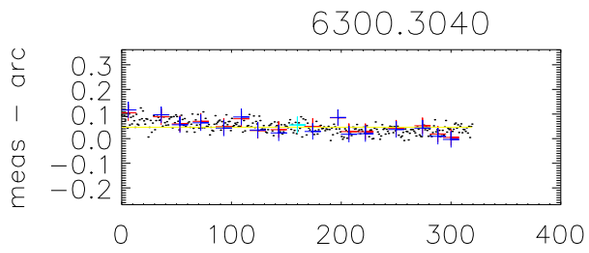

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r1-00050261.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.763
Max value = 43.562
Wed Mar 12 19:58:56 2008

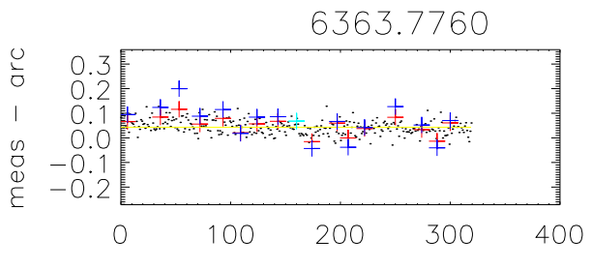

PLATE=2887 MJD=54520 Scattered Light on sdR-r1-00050261.fit
7.73
7.73
7.73

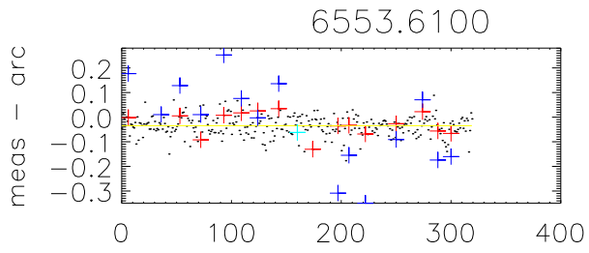

PLATE=2887 MJD=54520 Scattered Light on sdR-r1-00050261.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.376
Max value = 10.306
Wed Mar 12 20:01:13 2008

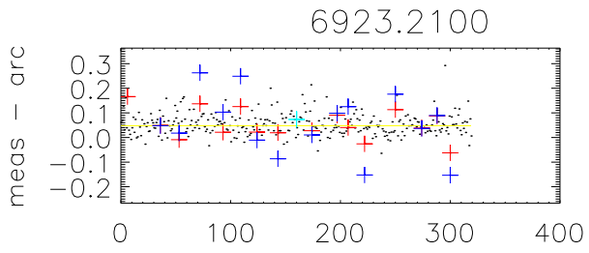

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-r1-00050261.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

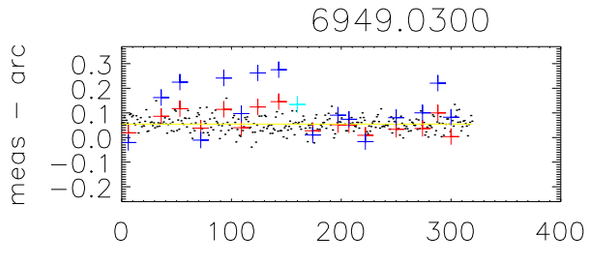

6300.3040
off: 0.06
sig: 0.005
6363.7760
off: 0.07
sig: 0.011
6553.6100
off: 0.06
sig: 0.050
6923.2100
off: 0.07
sig: 0.028
6949.0300
off: 0.13
sig: 0.025
7571.7500
off: 0.07
sig: 0.018
7794.1200
off: 0.01
sig: 0.010
7821.5100
off: 0.06
sig: 0.009
8399.1600
off: 0.08
sig: 0.007
8430.1700
off: 0.07
sig: 0.007
8885.8300
off: 0.05
sig: 0.007
8919.6100
off: 0.06
sig: 0.006

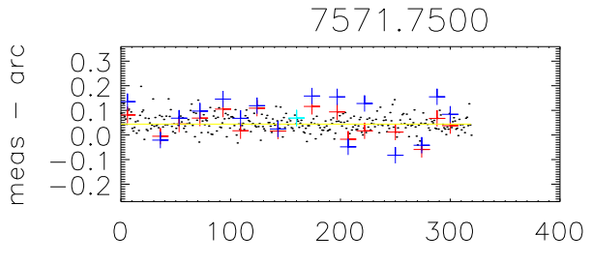

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

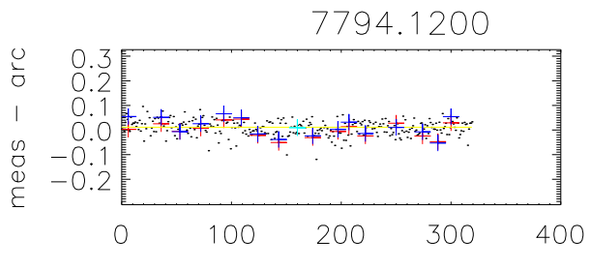

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

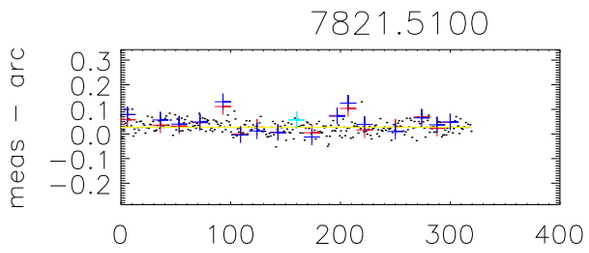

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

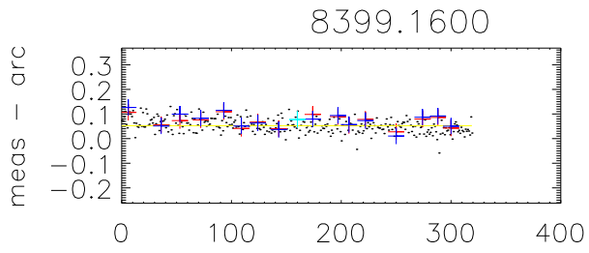

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

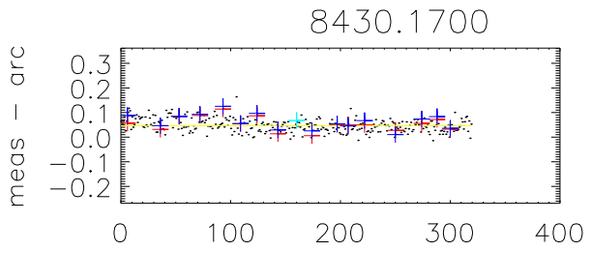

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

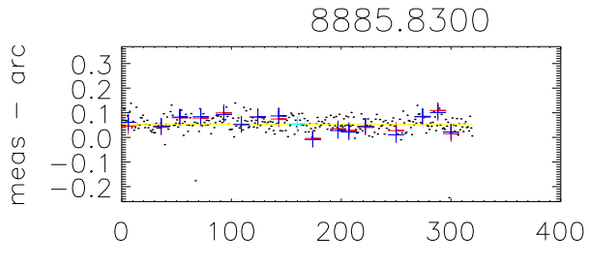

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

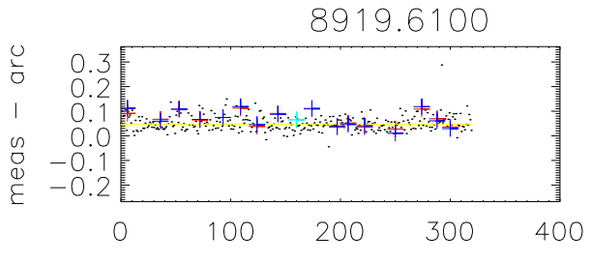

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

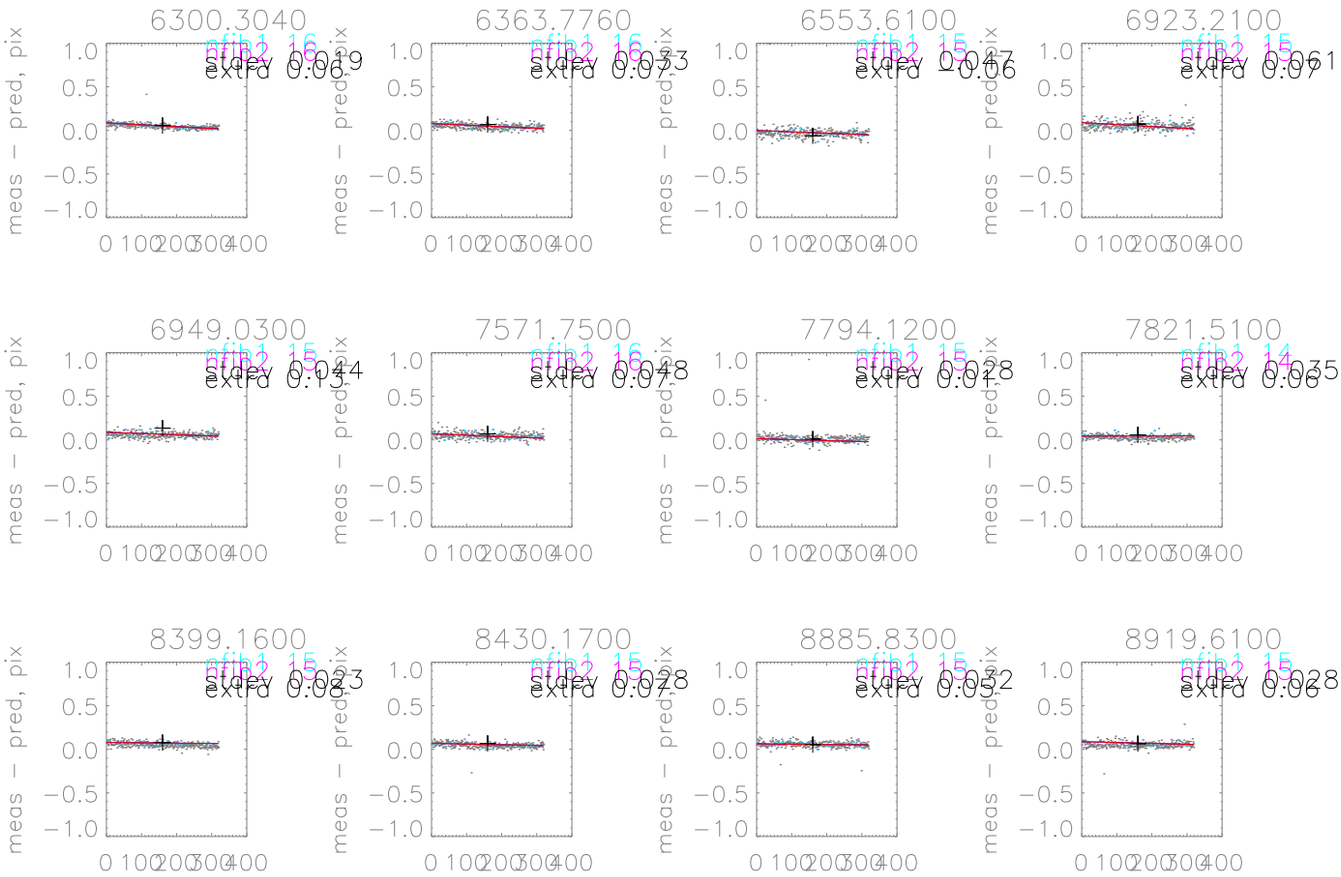

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

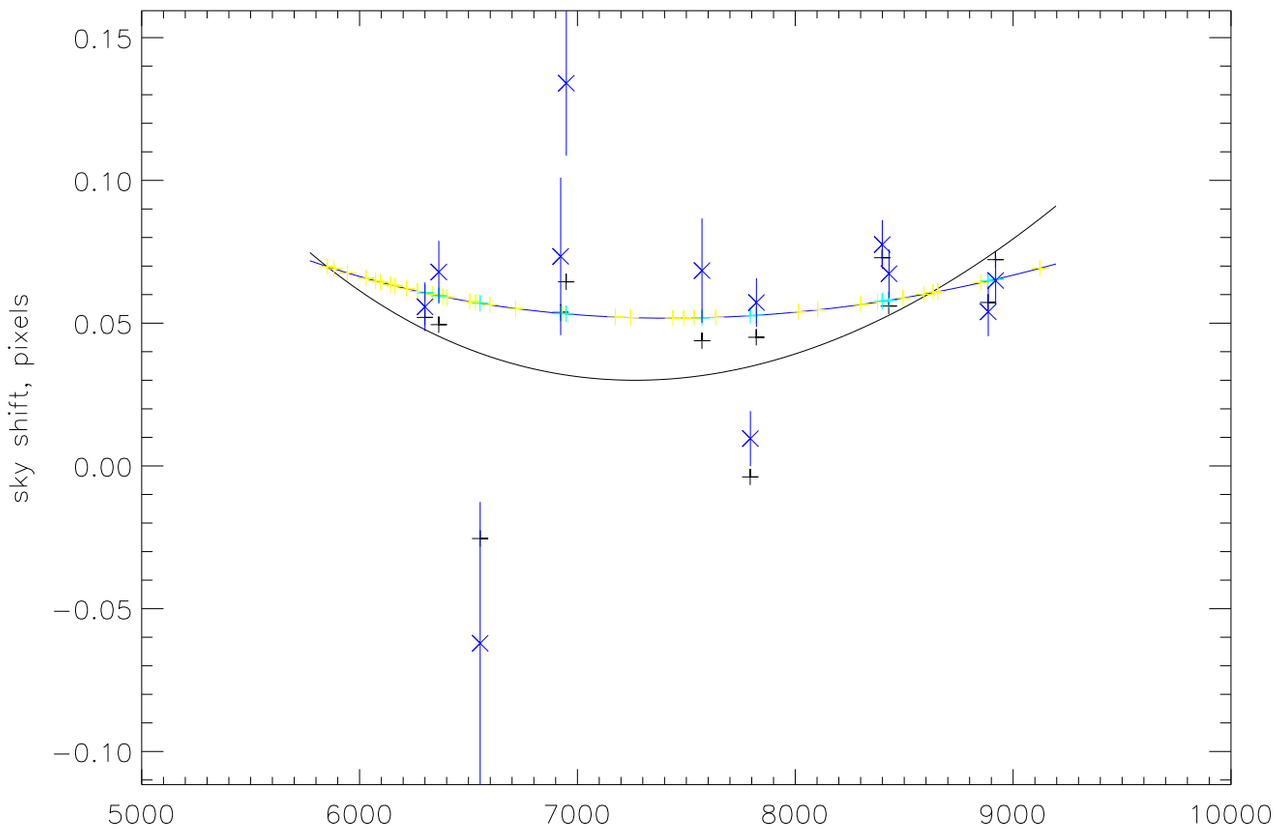

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

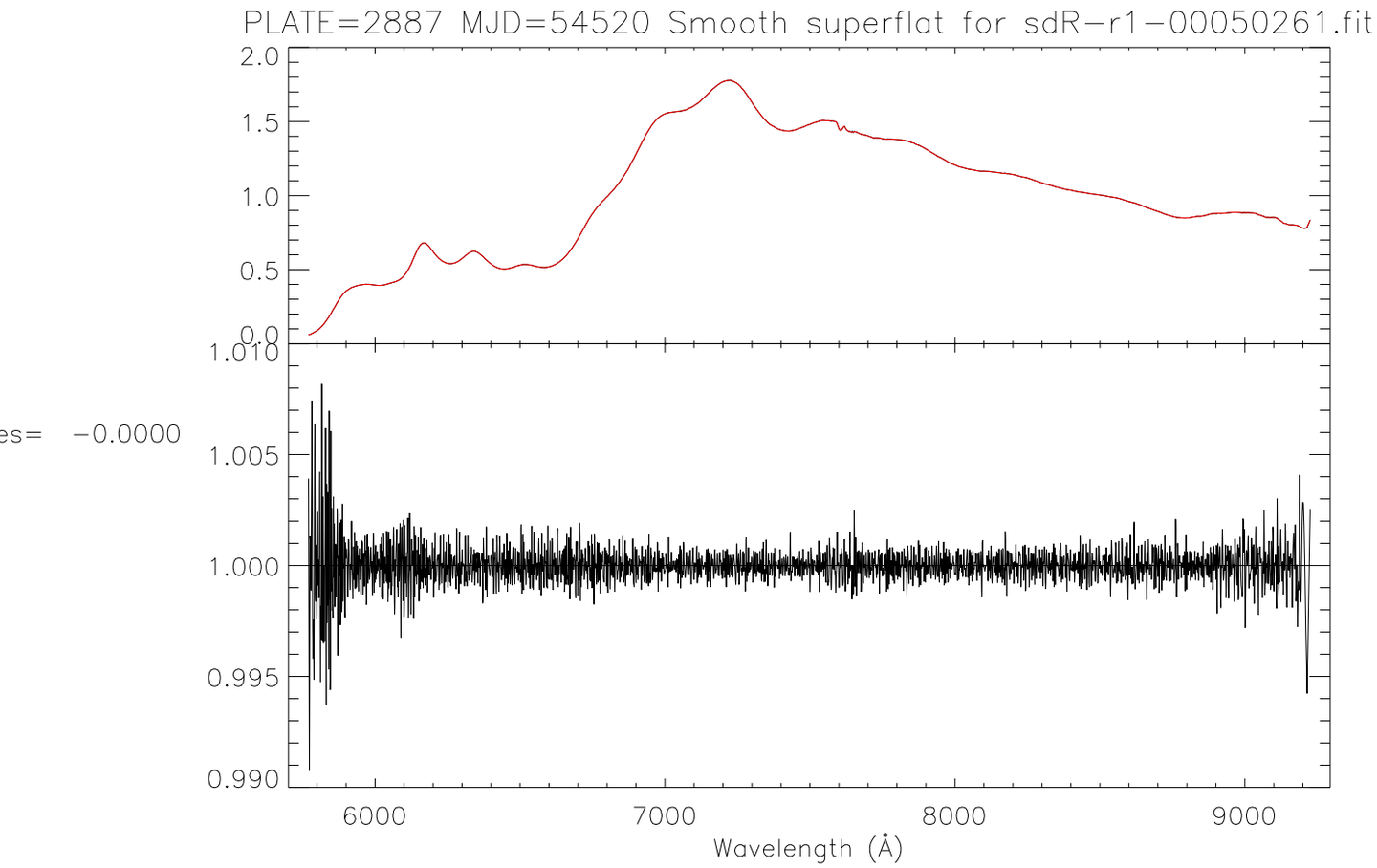

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

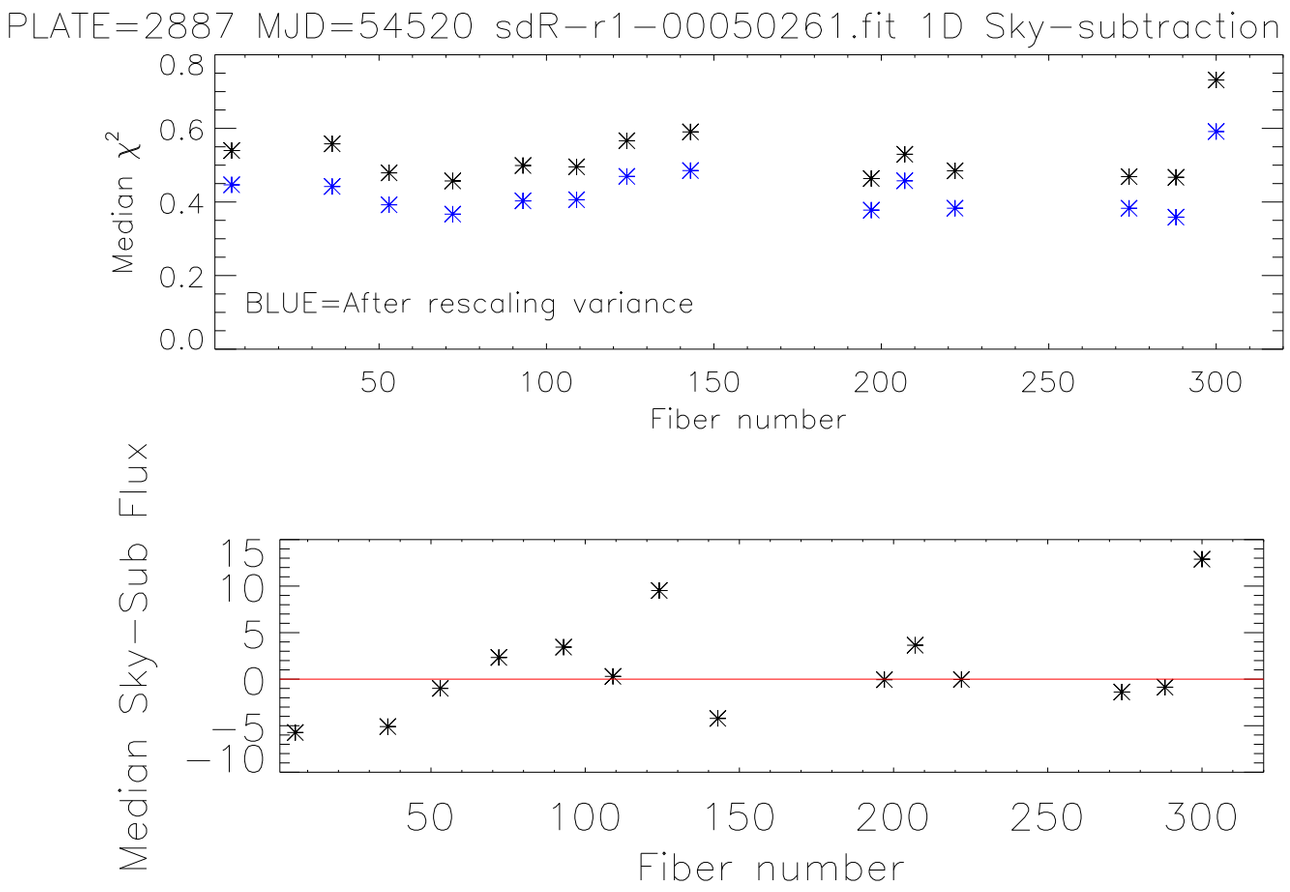

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

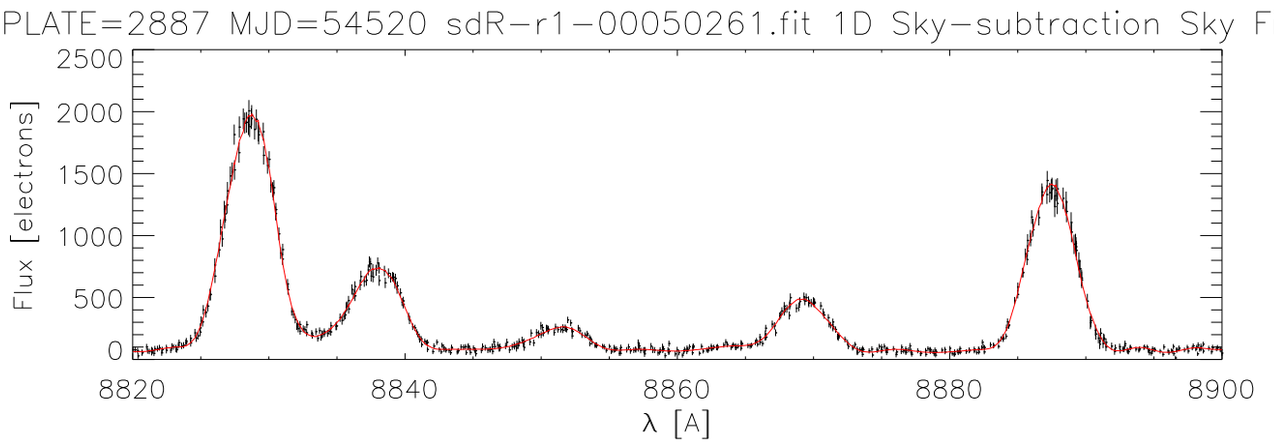

6300.3040
stdev 0.019
extra 0.07
6363.7760
stdev 0.023
extra 0.07
6553.6100
stdev 0.047
extra −0.06
6923.2100
stdev 0.061
extra 0.07
6949.0300
stdev 0.044
extra 0.13
7571.7500
stdev 0.048
extra 0.07
7794.1200
stdev 0.028
extra 0.01
7821.5100
stdev 0.035
extra 0.06
8399.1600
stdev 0.023
extra 0.08
8430.1700
stdev 0.028
extra 0.07
8885.8300
stdev 0.052
extra 0.05
8919.6100
stdev 0.028
extra 0.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

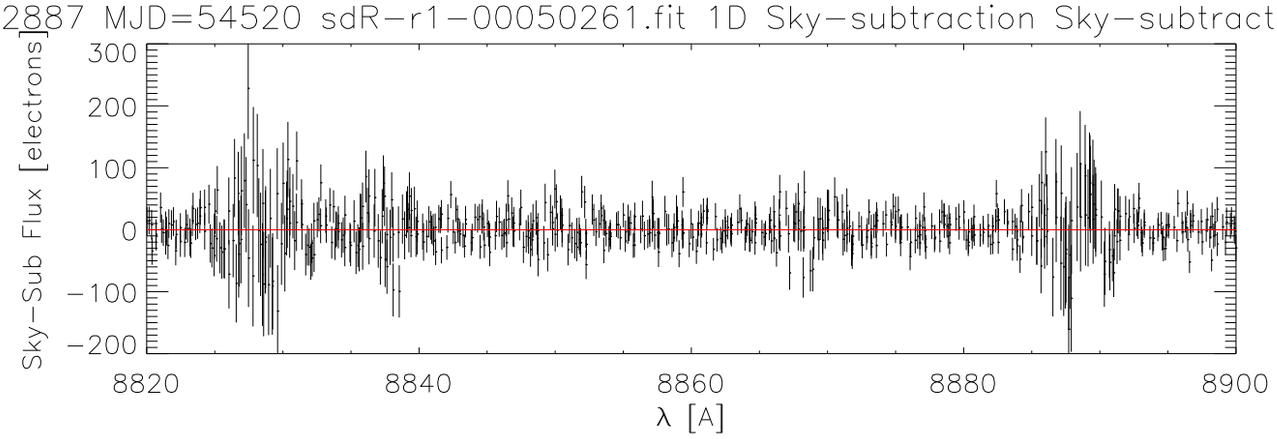

0.15
0.10
0.05
0.00
−0.05
−0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

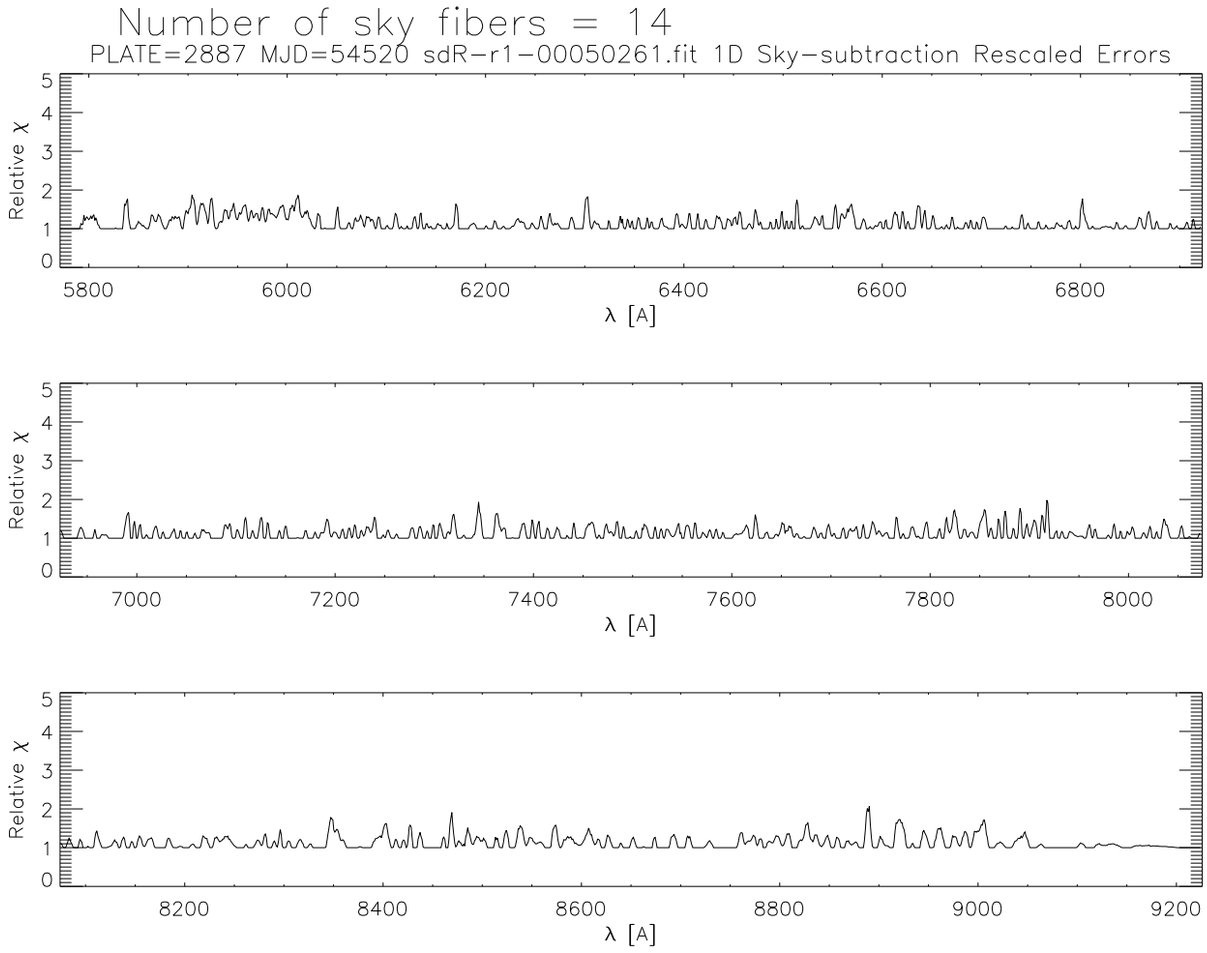

PLATE=2887 MJD=54520 Smooth superflat for sdR-r1-00050261.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

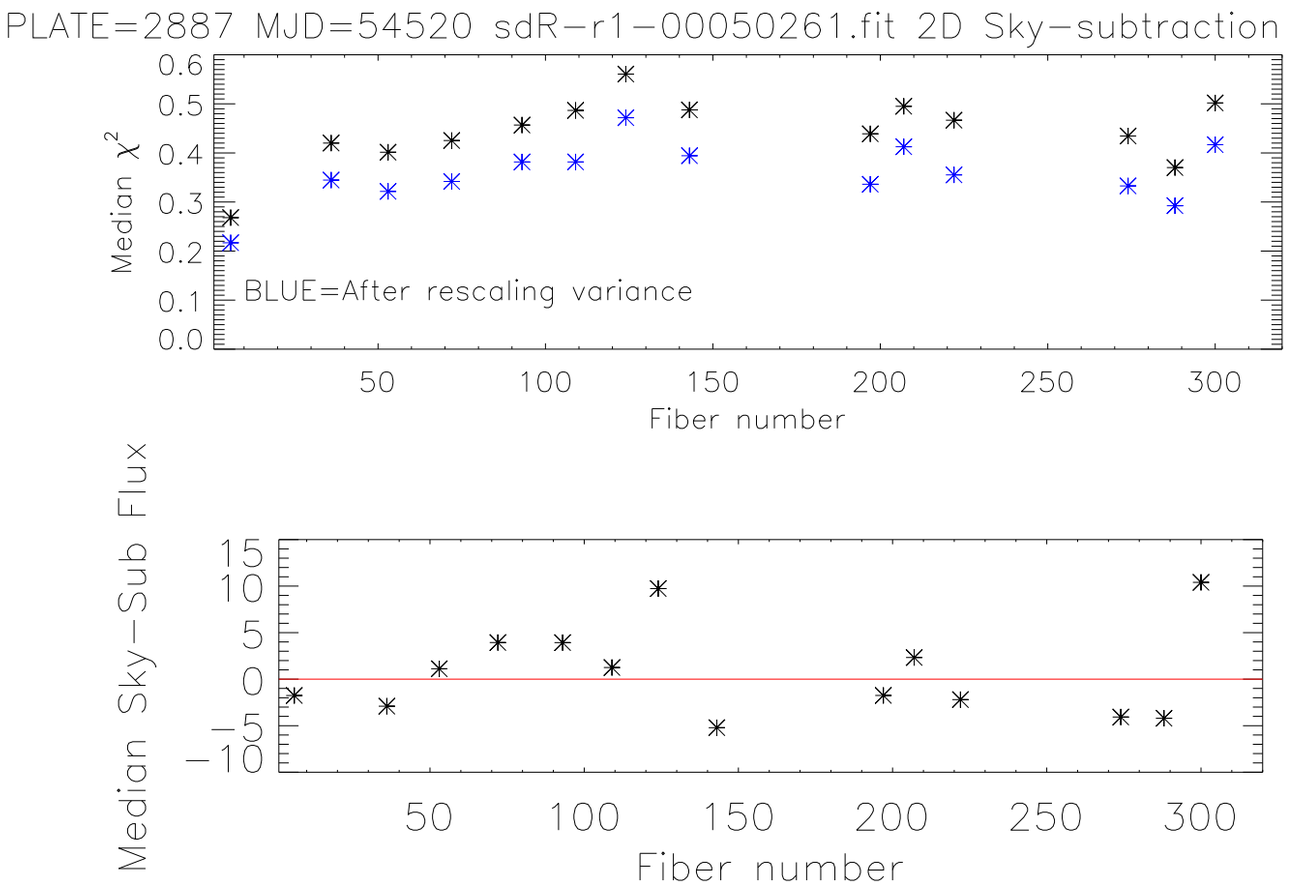

PLATE=2887 MJD=54520 sdR-r1-00050261.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

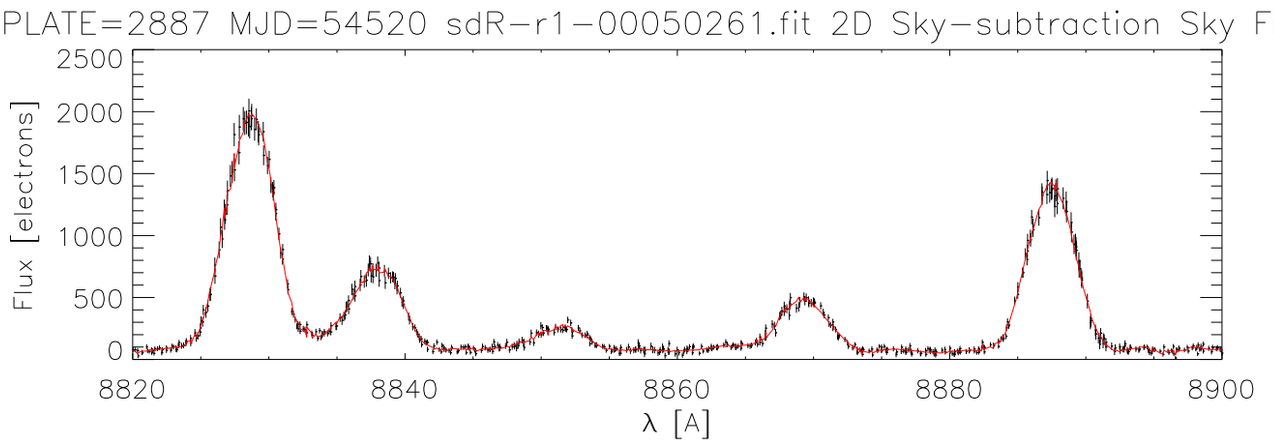
Median Sky-Sub Flux
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

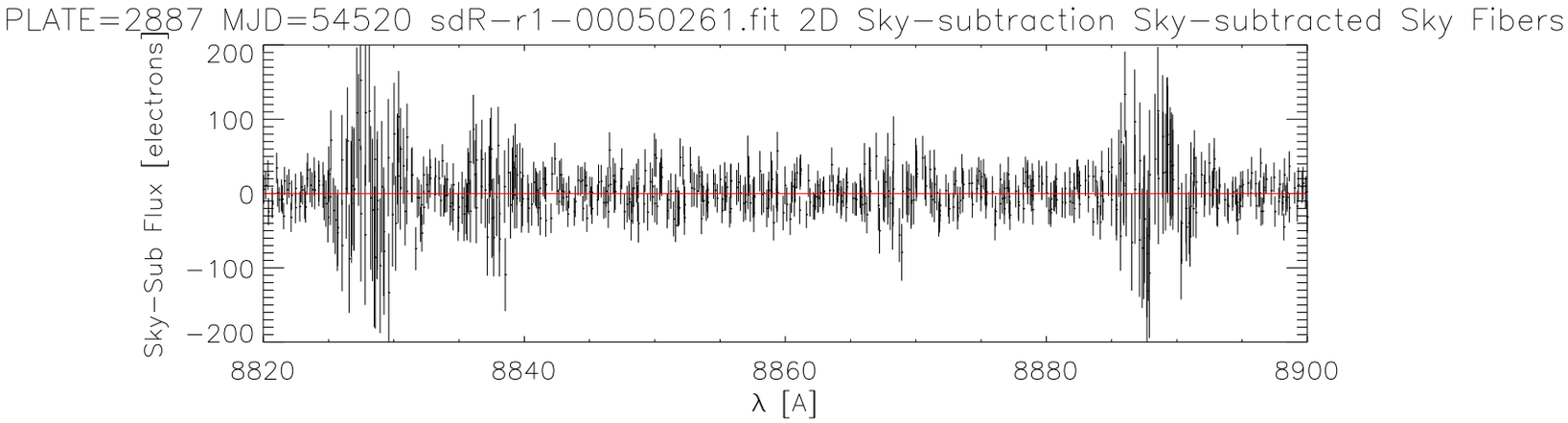

PLATE=2887 MJD=54520 sdR-r1-00050261.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

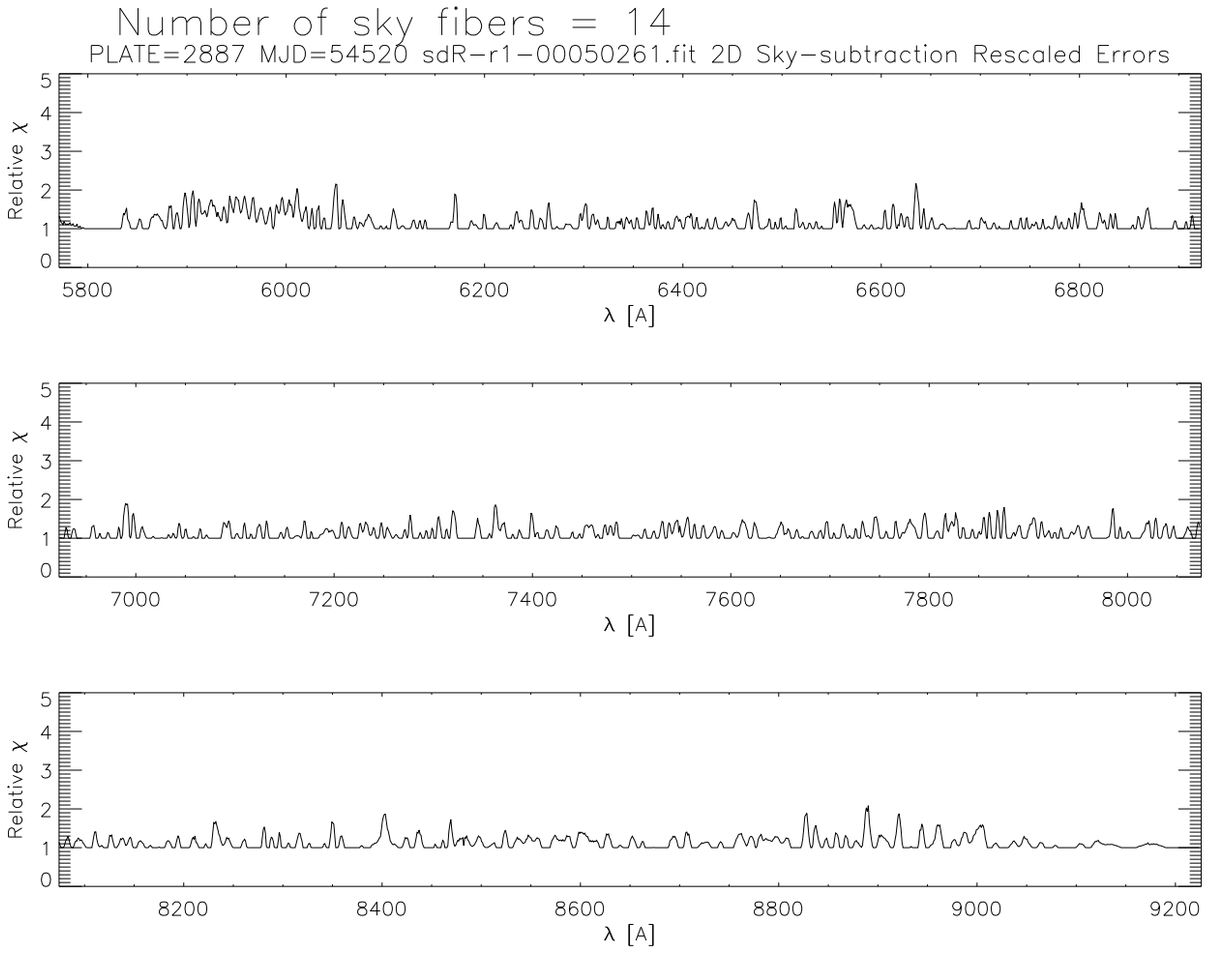

PLATE=2887 MJD=54520 sdR-r1-00050261.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

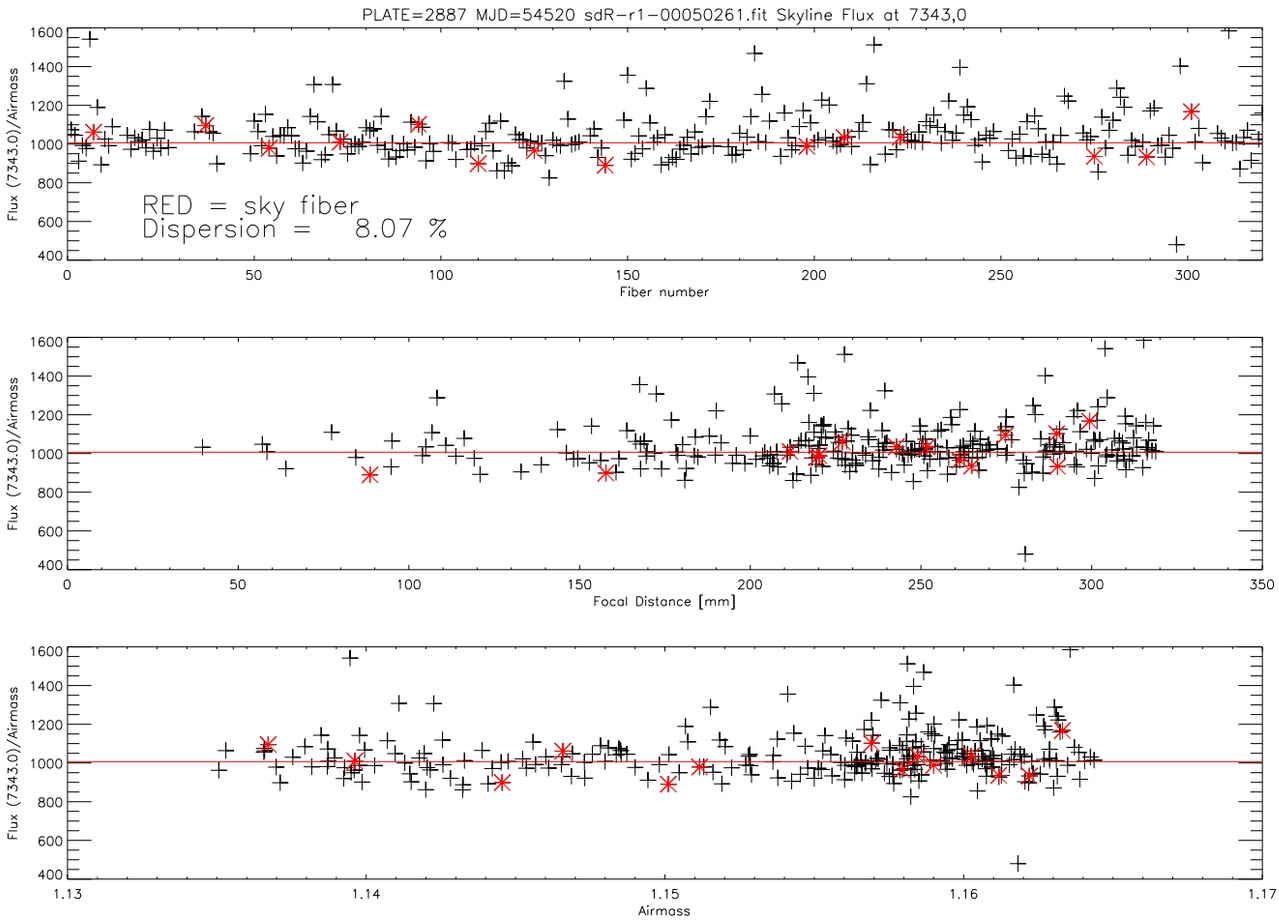

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-r1-00050261.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

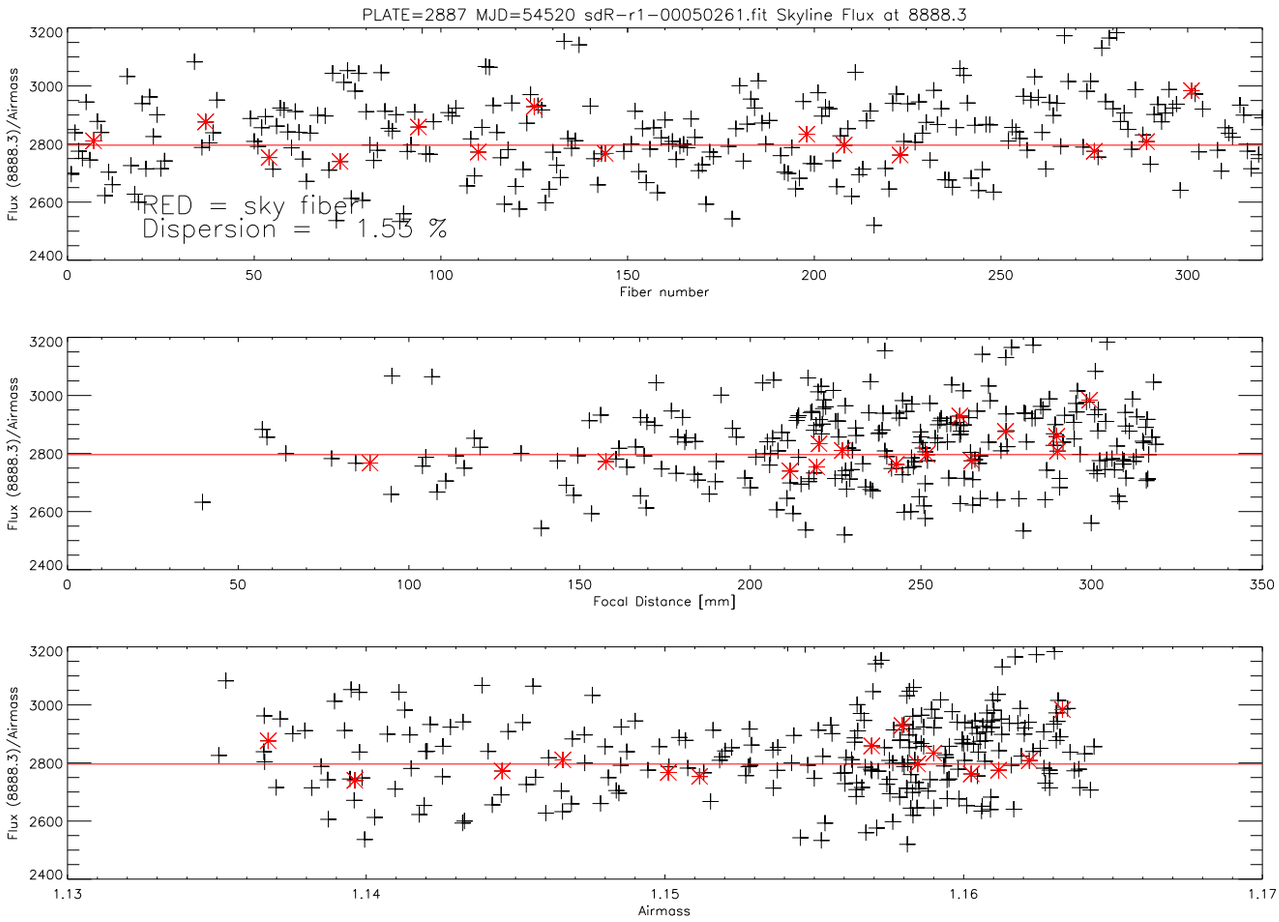

PLATE=2887 MJD=54520 sdR-r1-00050261.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

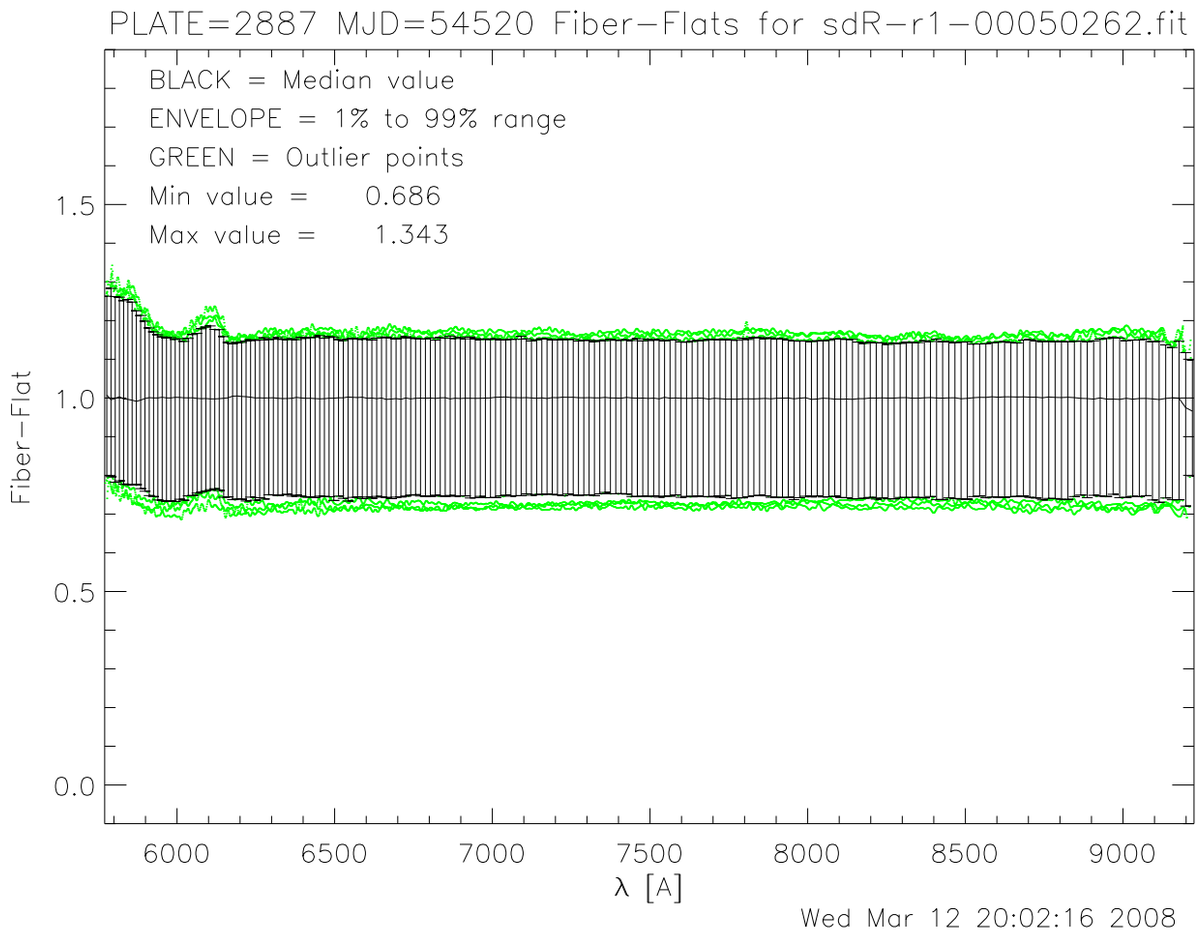

PLATE=2887 MJD=54520 sdR-r1-00050261.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

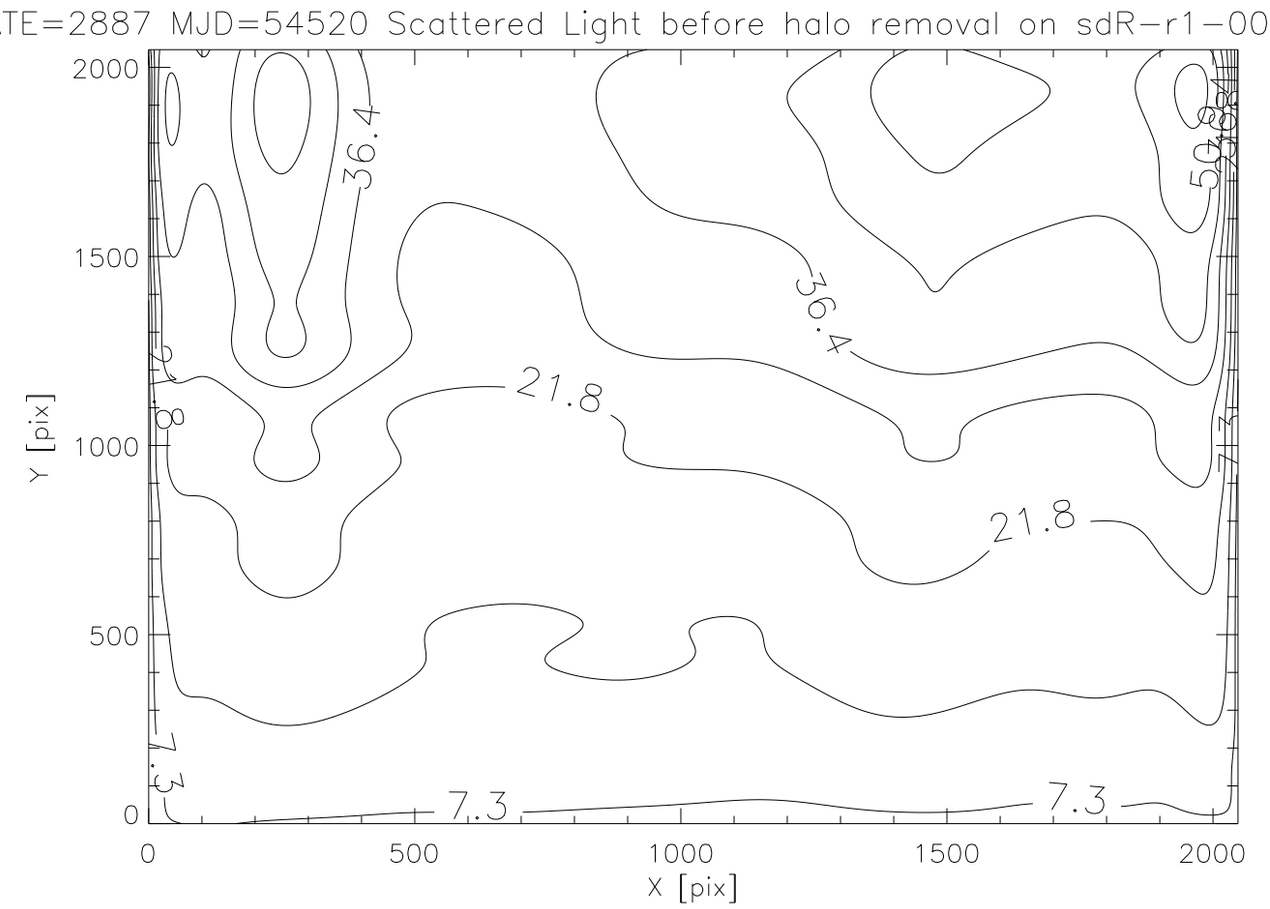

PLATE=2887 MJD=54520 sdR-r1-00050261.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

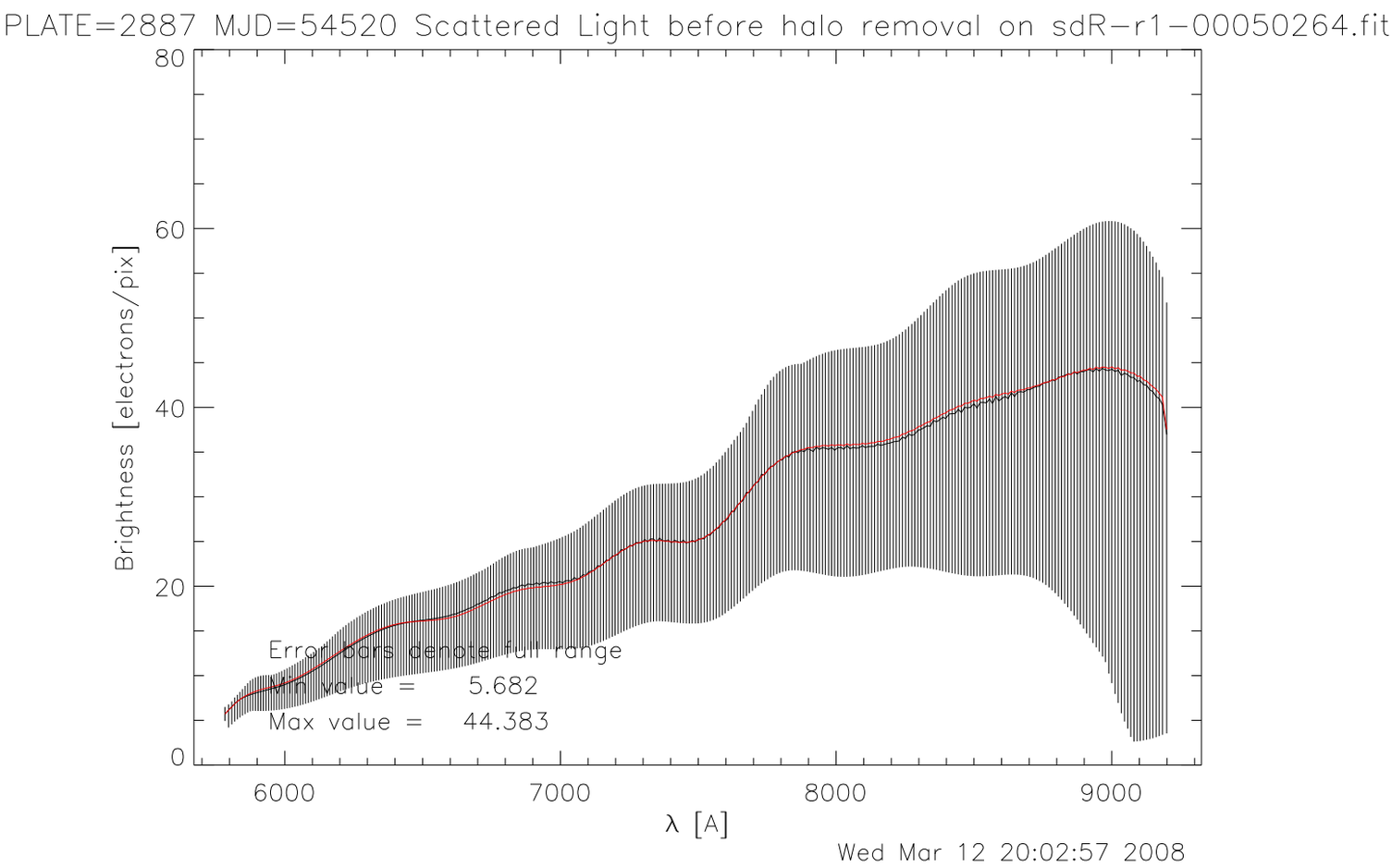

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-r1-00050261.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

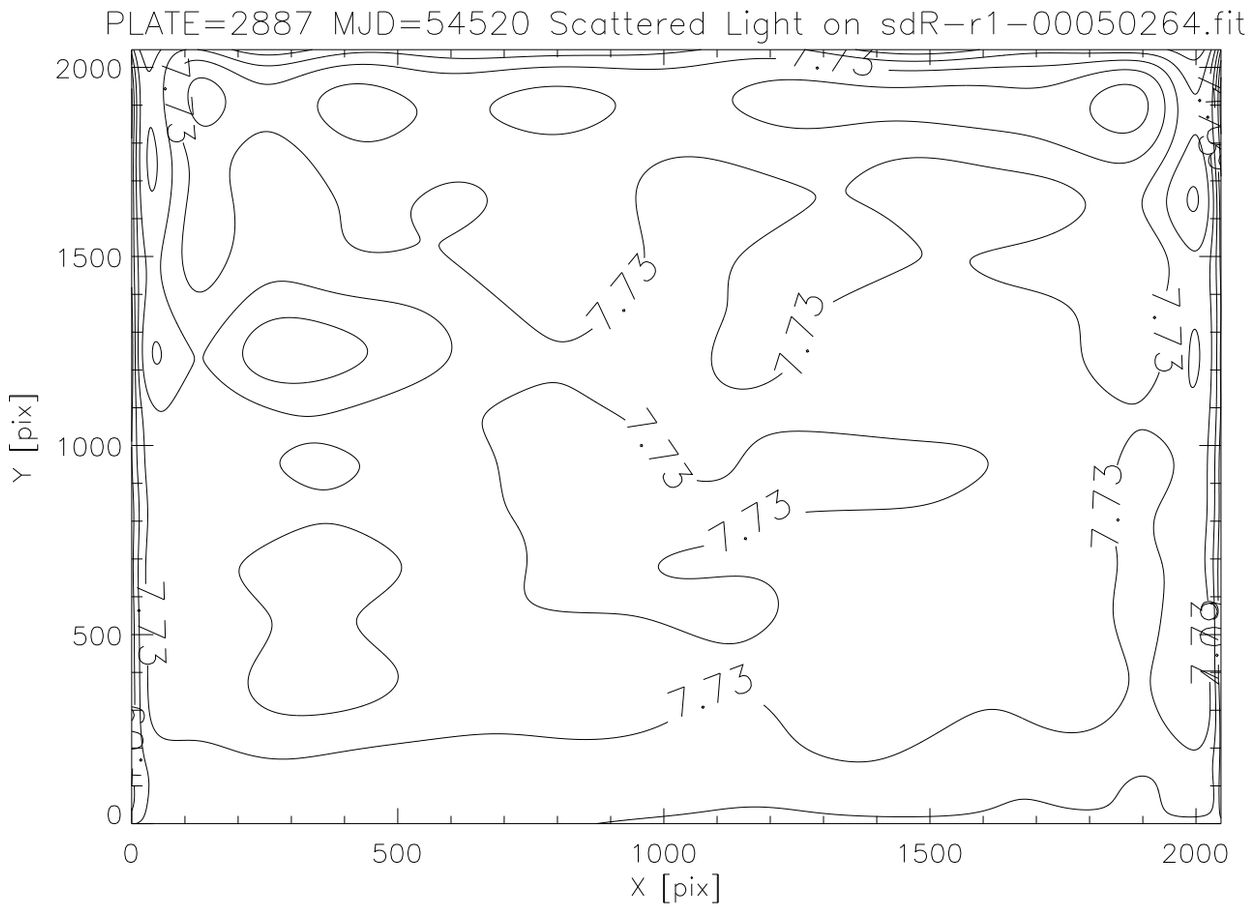

PLATE=2887 MJD=54520 sdR-r1-00050261.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 8.07 %
Fiber number
Focal Distance [mm]
Airmass

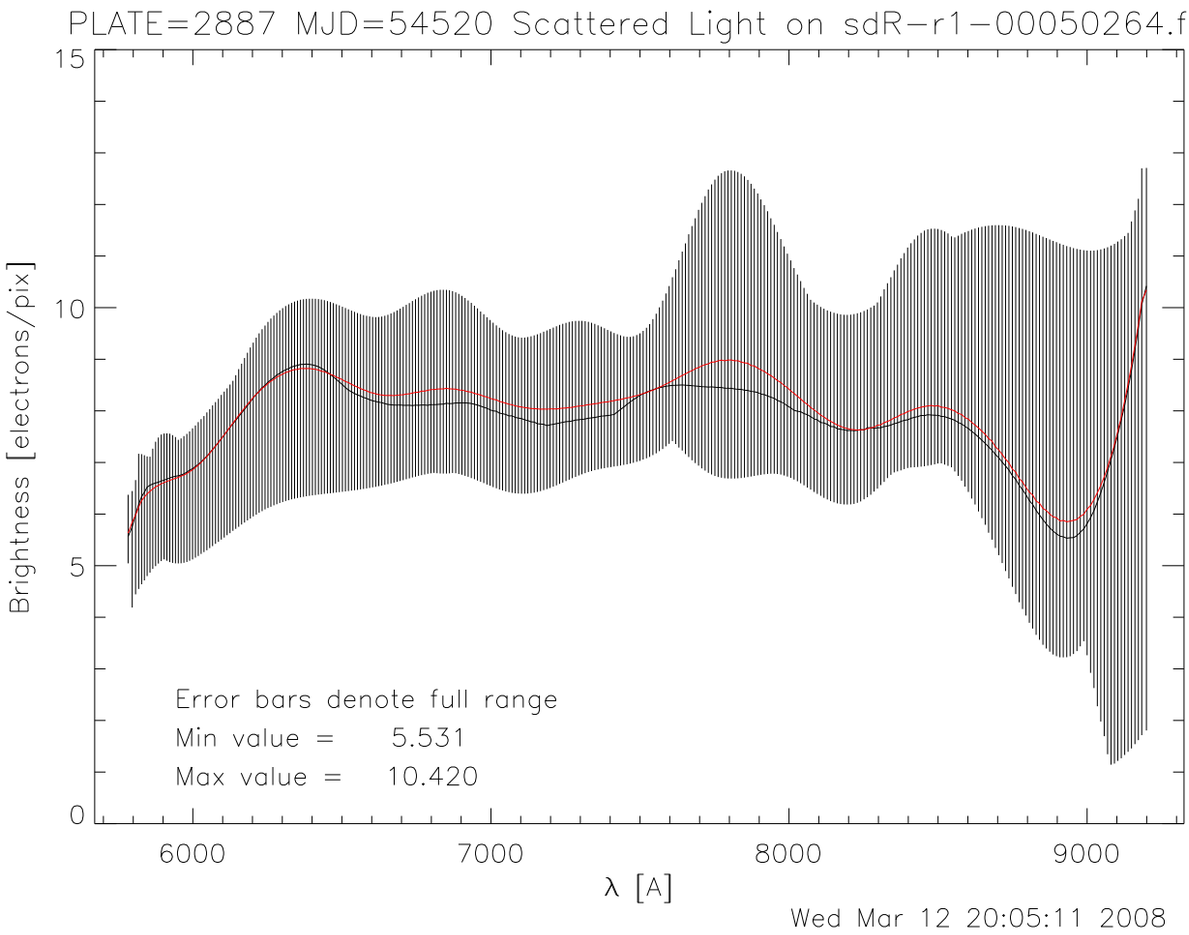

PLATE=2887 MJD=54520 sdR-r1-00050261.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = ± 1.55 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

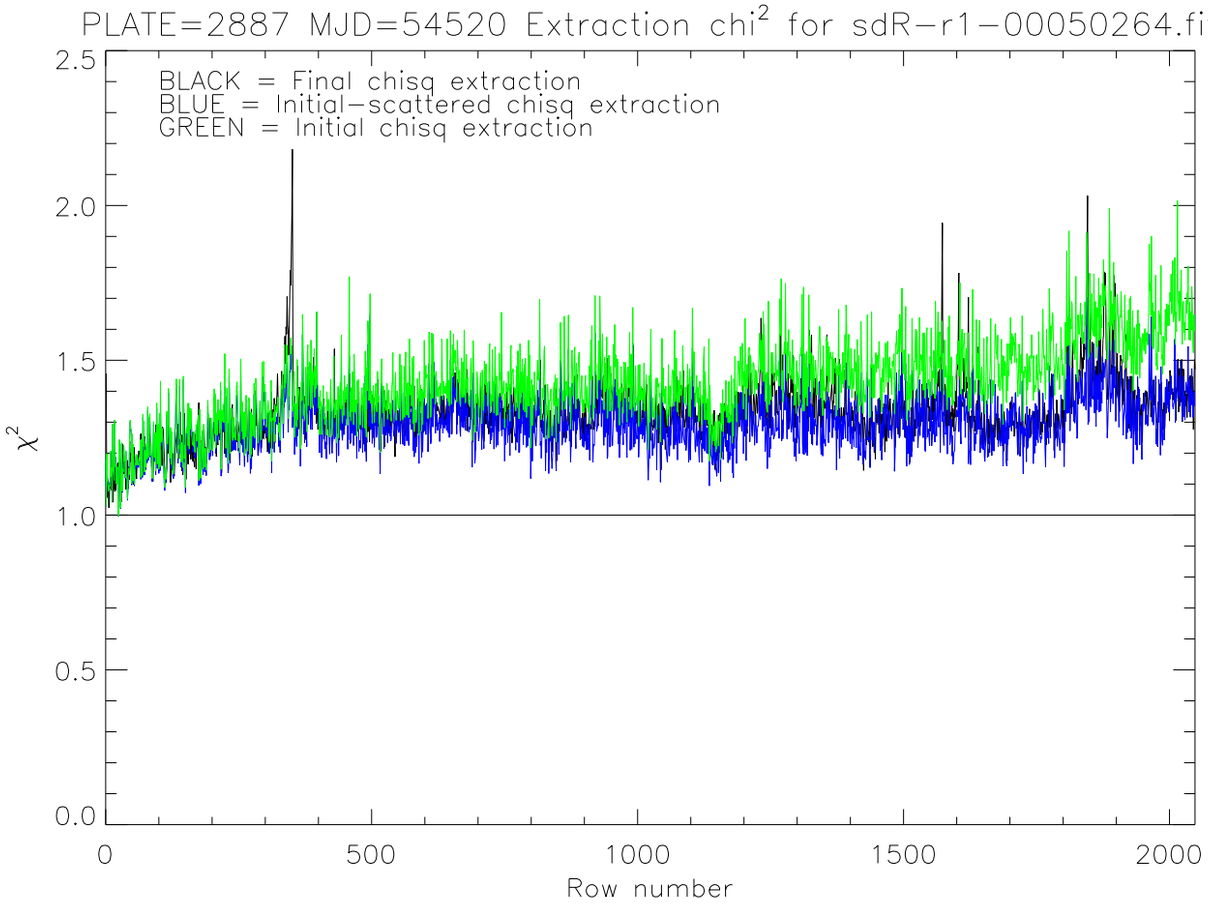

PLATE=2887 MJD=54520 Fiber-Flats for sdR-r1-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.686
Max value = 1.343
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 20:02:16 2008

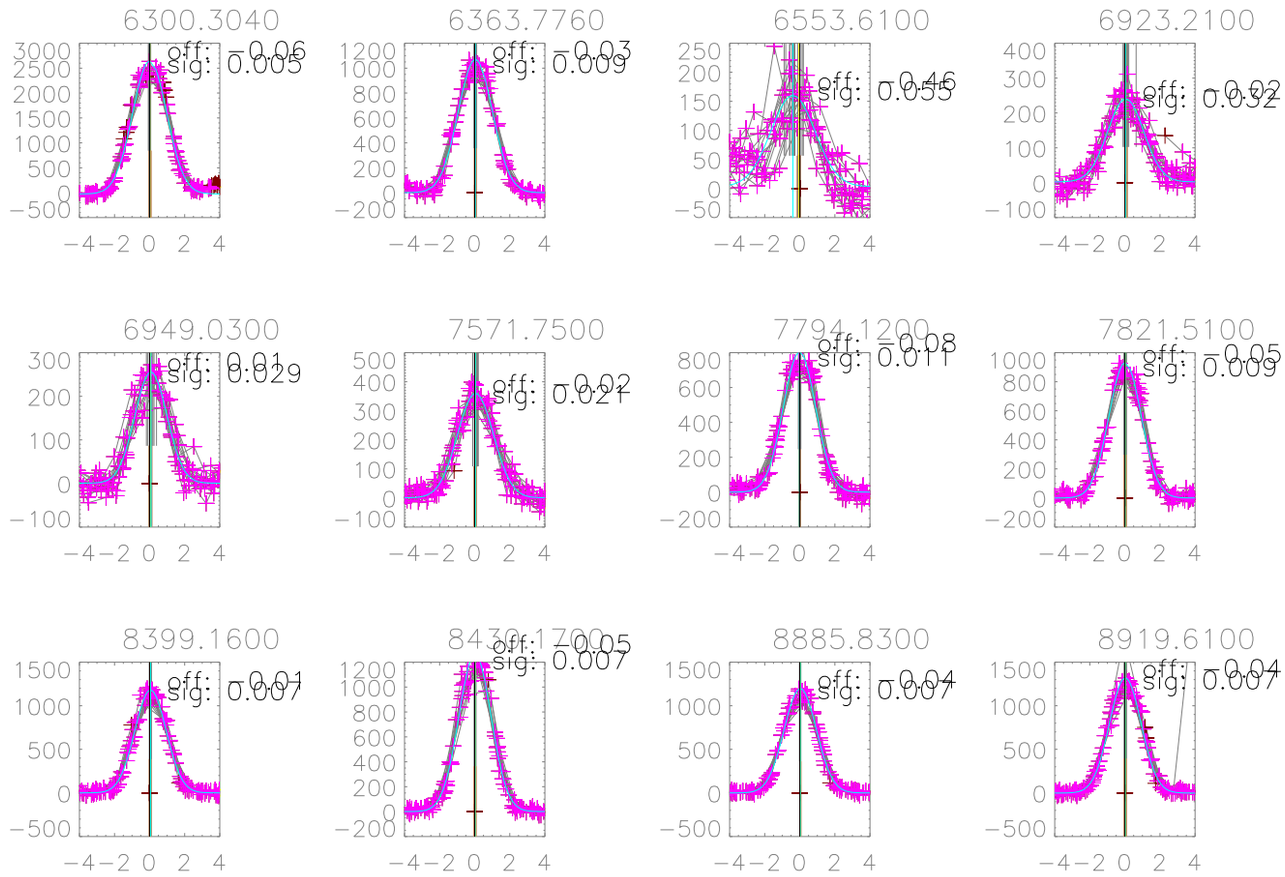

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r1-00050264.fit
2000
1500
1000
500
0
Y [pix]
0
500
1000
1500
2000
X [pix]
36.4
36.4
21.8
21.8
21.8
7.3
7.3
7.3
7.3

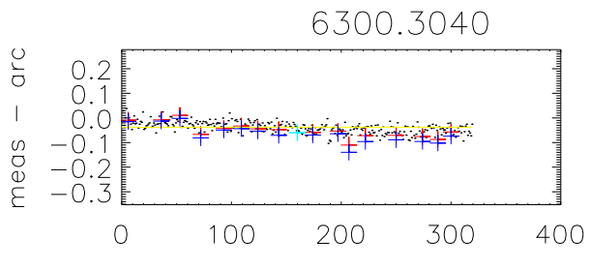

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r1-00050264.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.682
Max value = 44.383
Wed Mar 12 20:02:57 2008

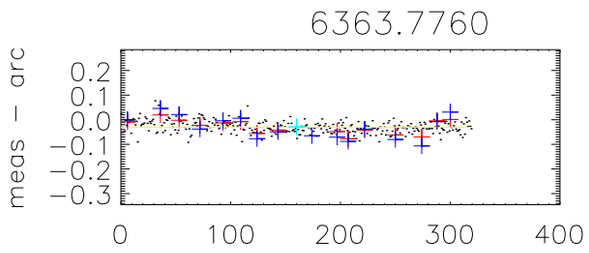

PLATE=2887 MJD=54520 Scattered Light on sdR-r1-00050264.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.73
0

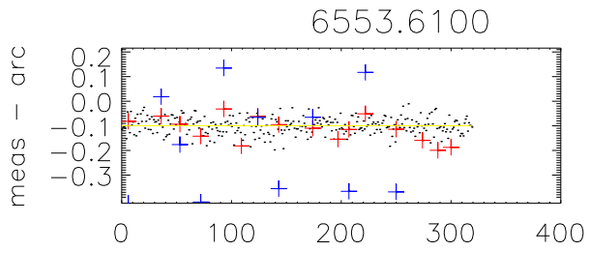

PLATE=2887 MJD=54520 Scattered Light on sdR-r1-00050264.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.531
Max value = 10.420
Wed Mar 12 20:05:11 2008

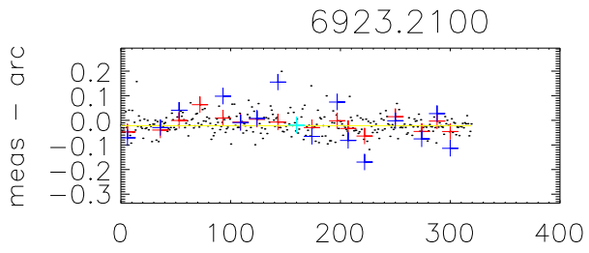

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-r1-00050264.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

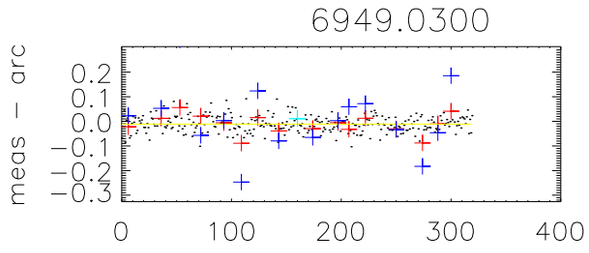

6300.3040
off: −0.06
sig: 0.005
6363.7760
off: −0.03
sig: 0.009
6553.6100
off: −0.46
sig: 0.055
6923.2100
off: −0.02
sig: 0.032
6949.0300
off: 0.01
sig: 0.029
7571.7500
off: −0.02
sig: 0.021
7794.1200
off: −0.08
sig: 0.011
7821.5100
off: −0.05
sig: 0.009
8399.1600
off: −0.01
sig: 0.007
8430.1700
off: −0.05
sig: 0.007
8885.8300
off: −0.04
sig: 0.007
8919.6100
off: −0.04
sig: 0.007

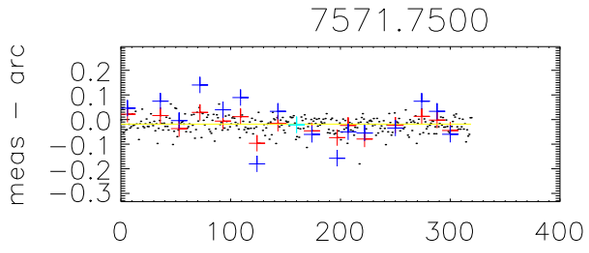

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

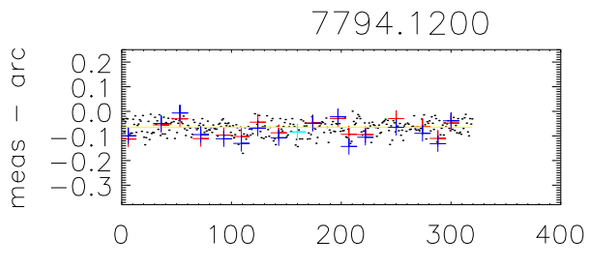

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

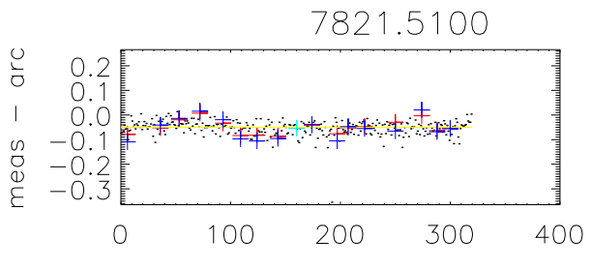

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

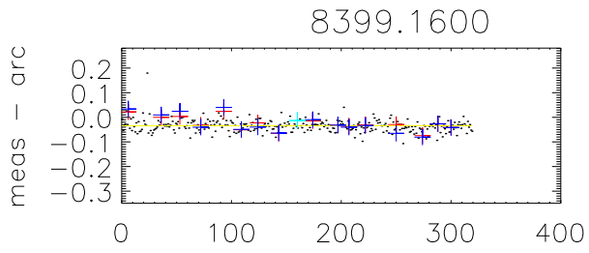

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

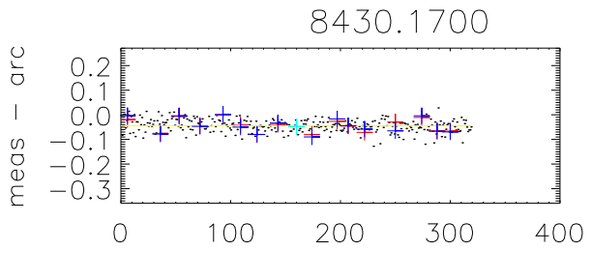

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

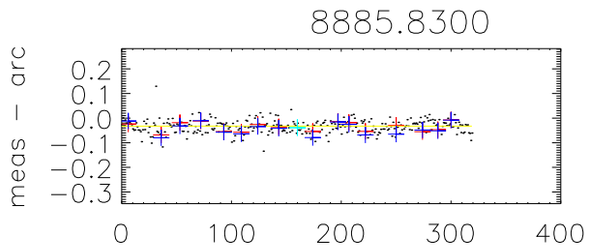

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

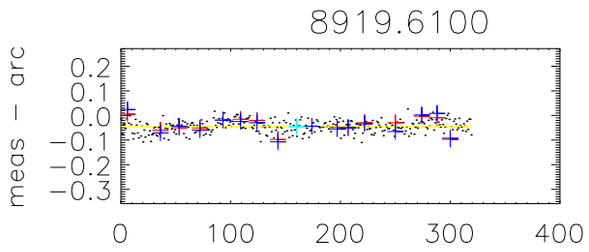

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

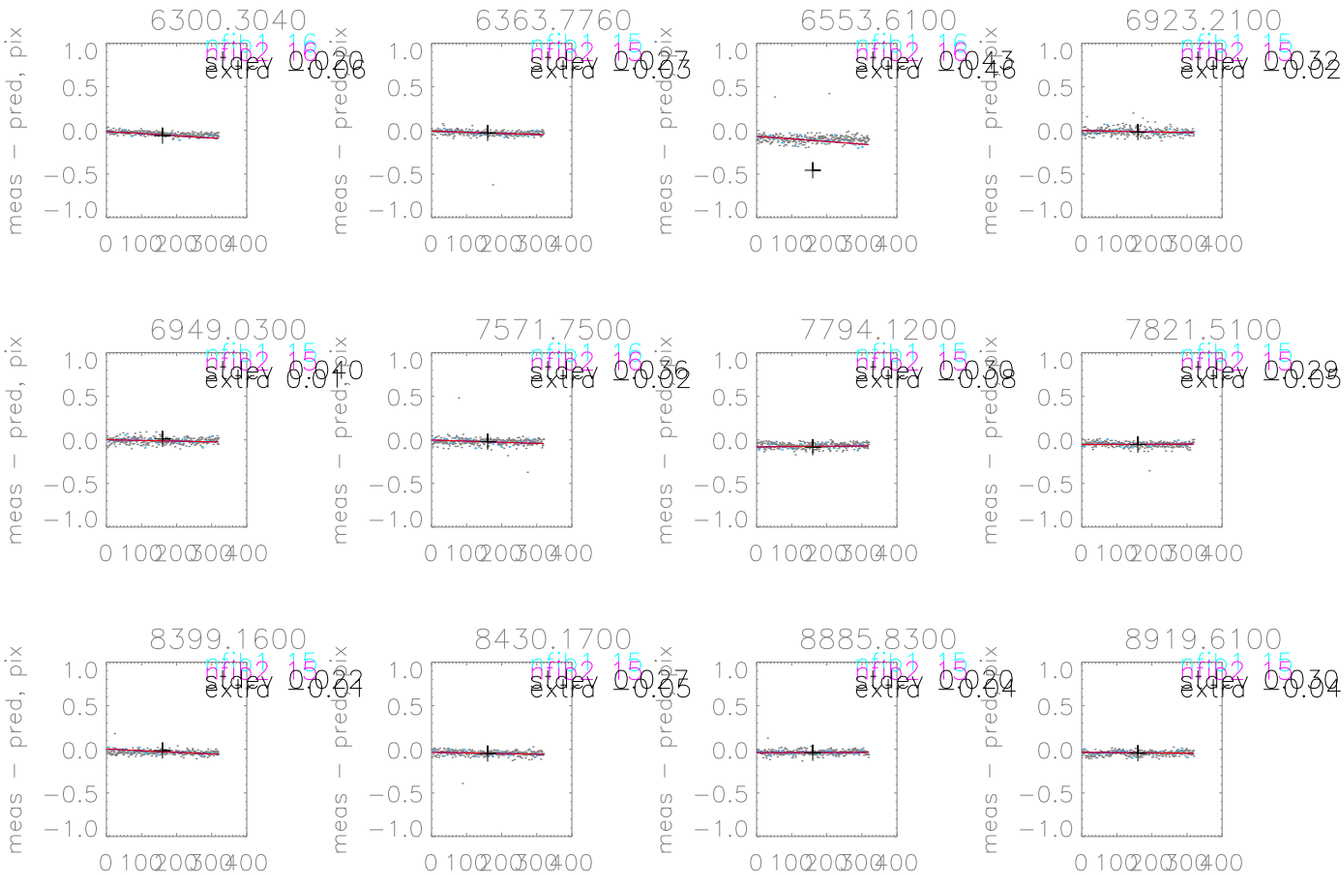

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

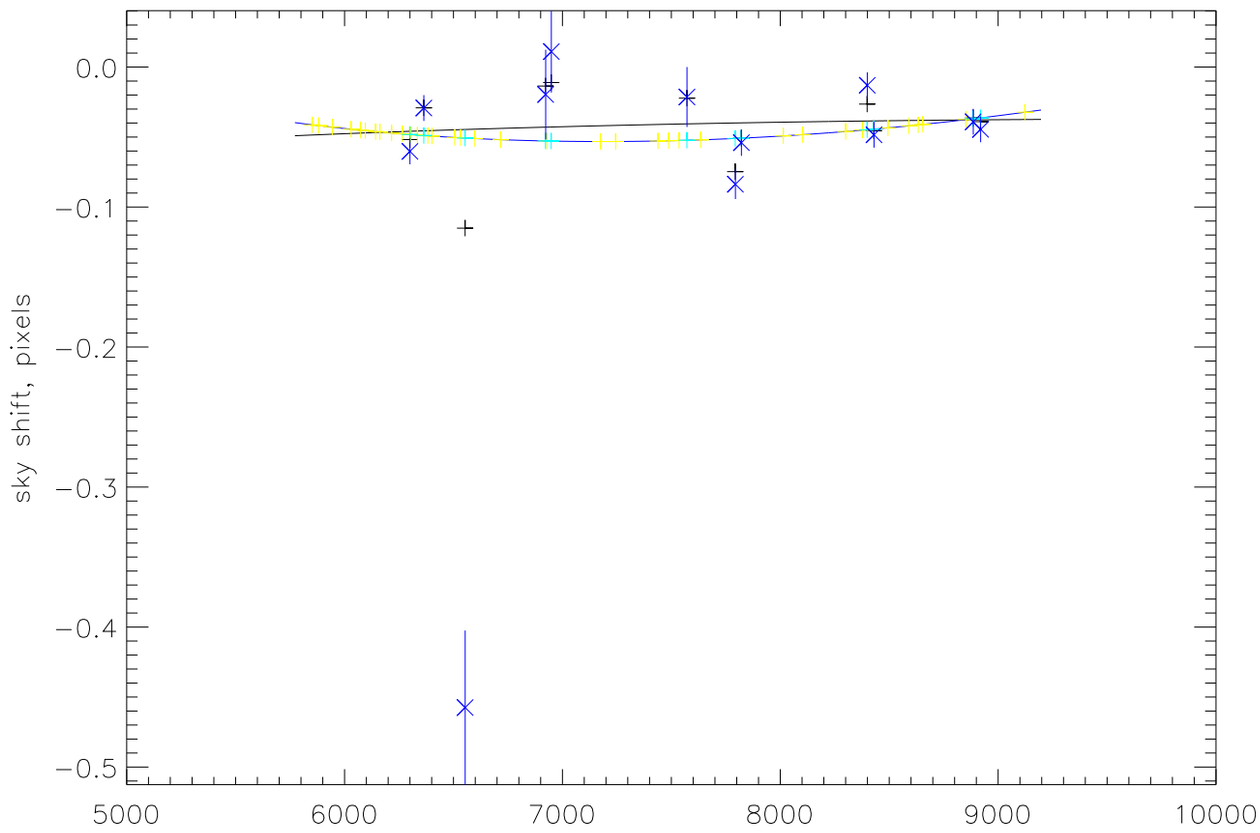

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

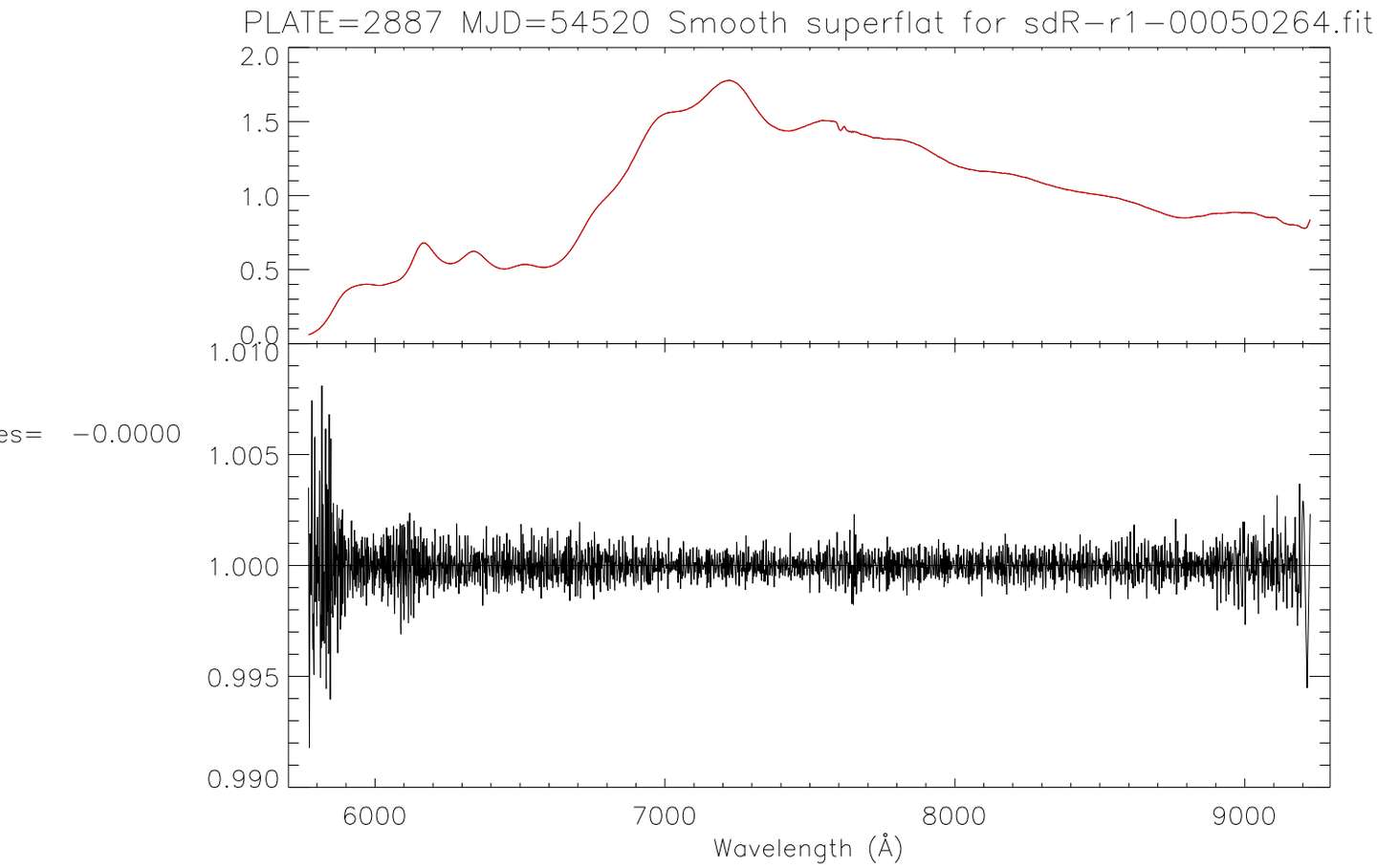

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

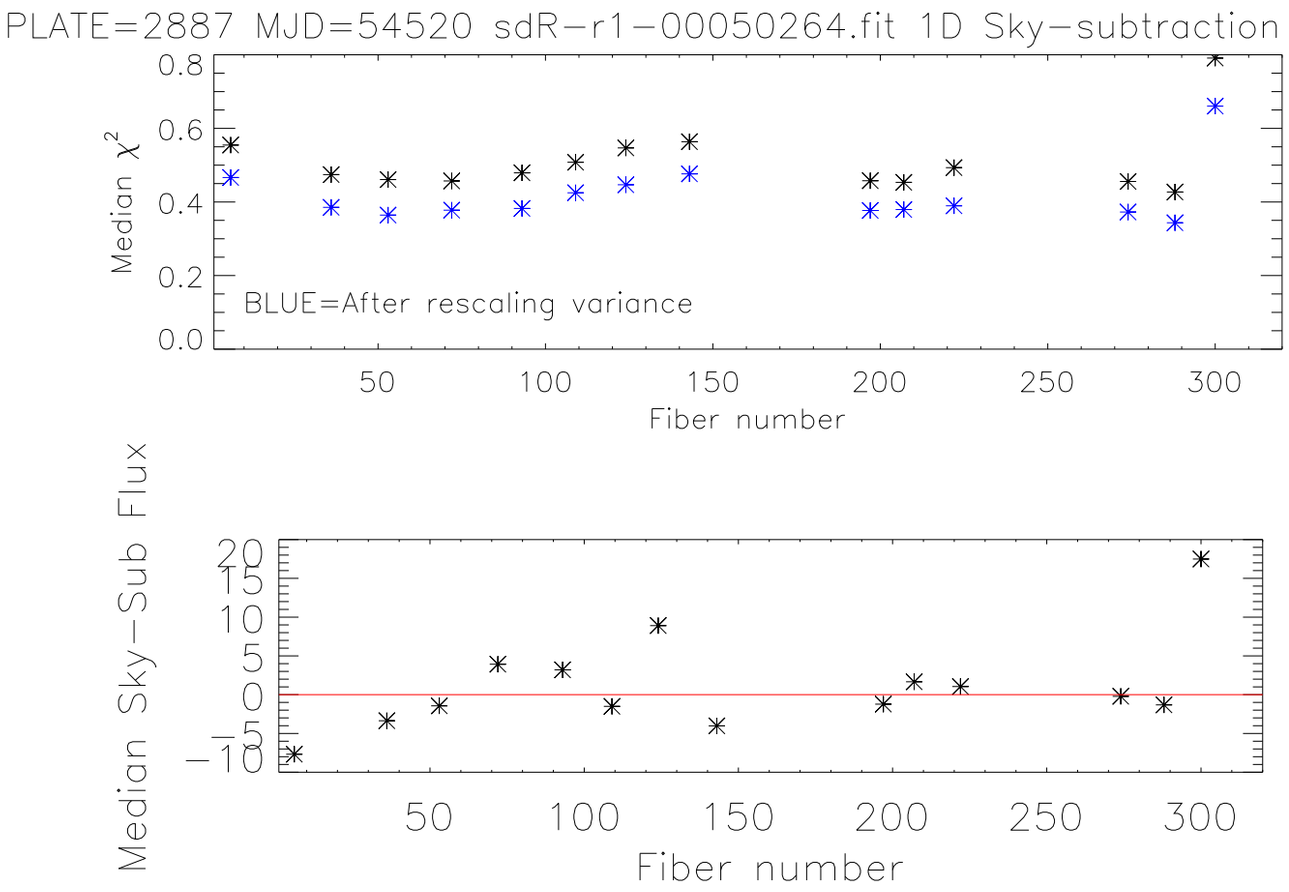

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

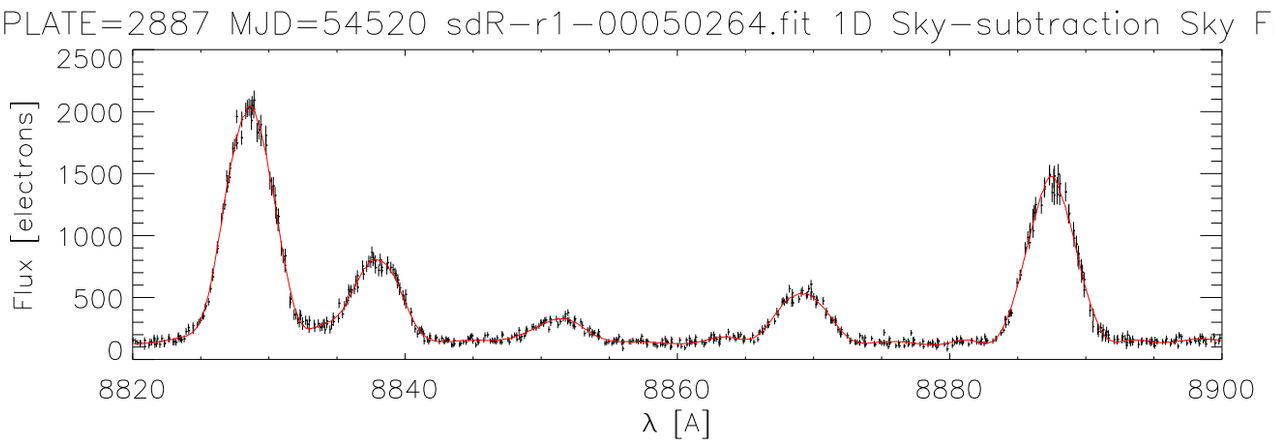

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

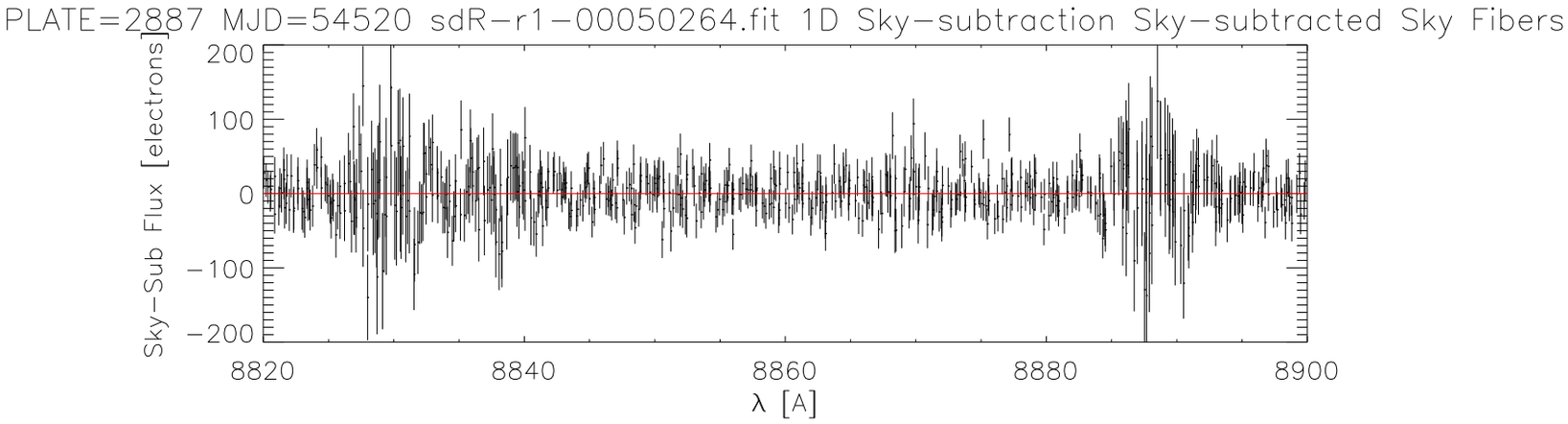

6300.3040
stdev 0.026
extra −0.06
6363.7760
stdev 0.023
extra −0.03
6553.6100
stdev 0.043
extra 0.046
6923.2100
stdev 0.032
extra 0.02
6949.0300
stdev 0.040
extra 0.01
7571.7500
stdev 0.036
extra −0.02
7794.1200
stdev 0.030
extra 0.08
7821.5100
stdev 0.028
extra 0.05
8399.1600
stdev 0.022
extra −0.04
8430.1700
stdev 0.027
extra −0.05
8885.8300
stdev 0.020
extra −0.04
8919.6100
stdev 0.030
extra 0.04
meas − pred, pix
afib1 16 20
afib2 15 19

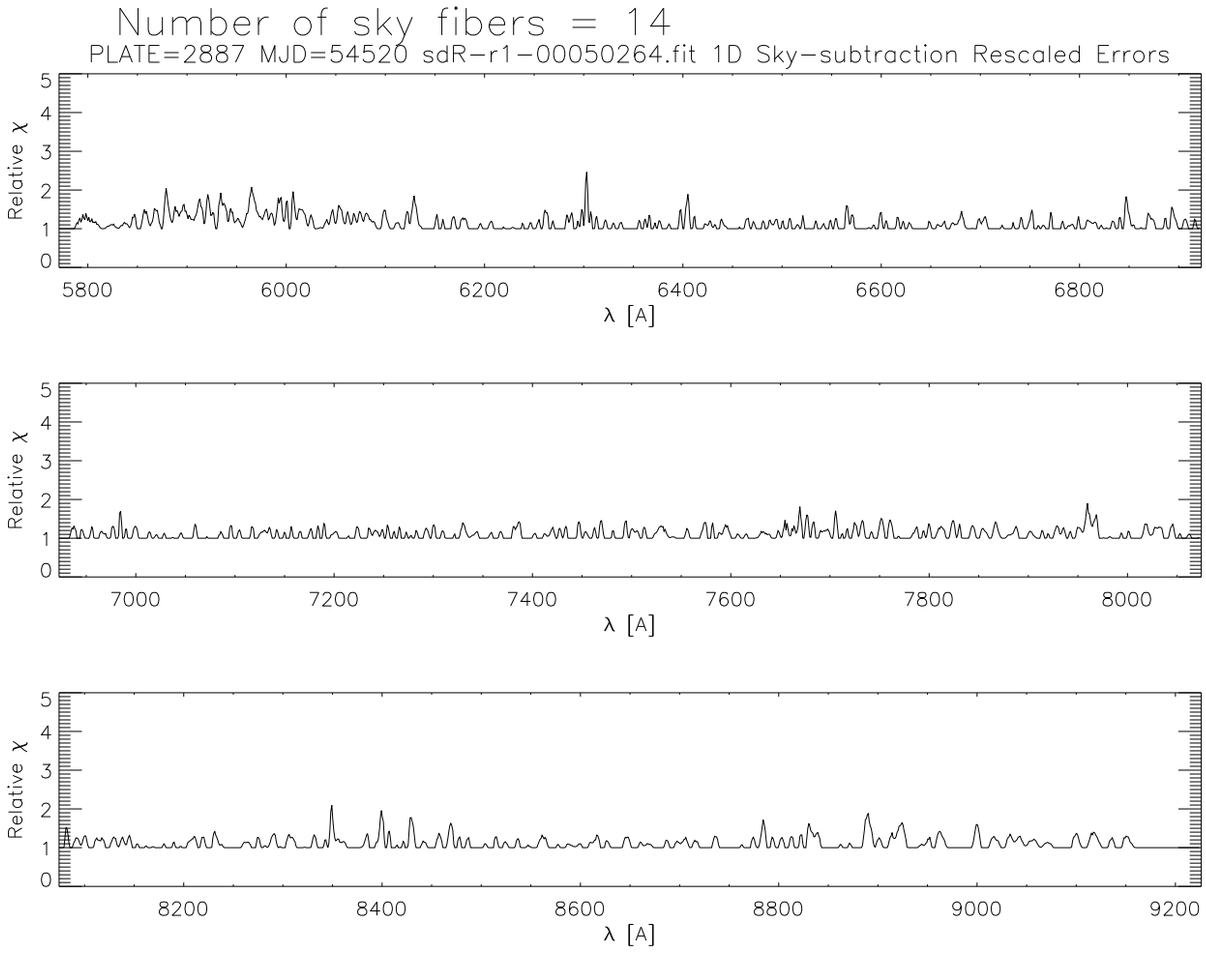

0.0
−0.1
−0.2
−0.3
−0.4
−0.5
sky shift, pixels
5000
6000
7000
8000
9000
10000

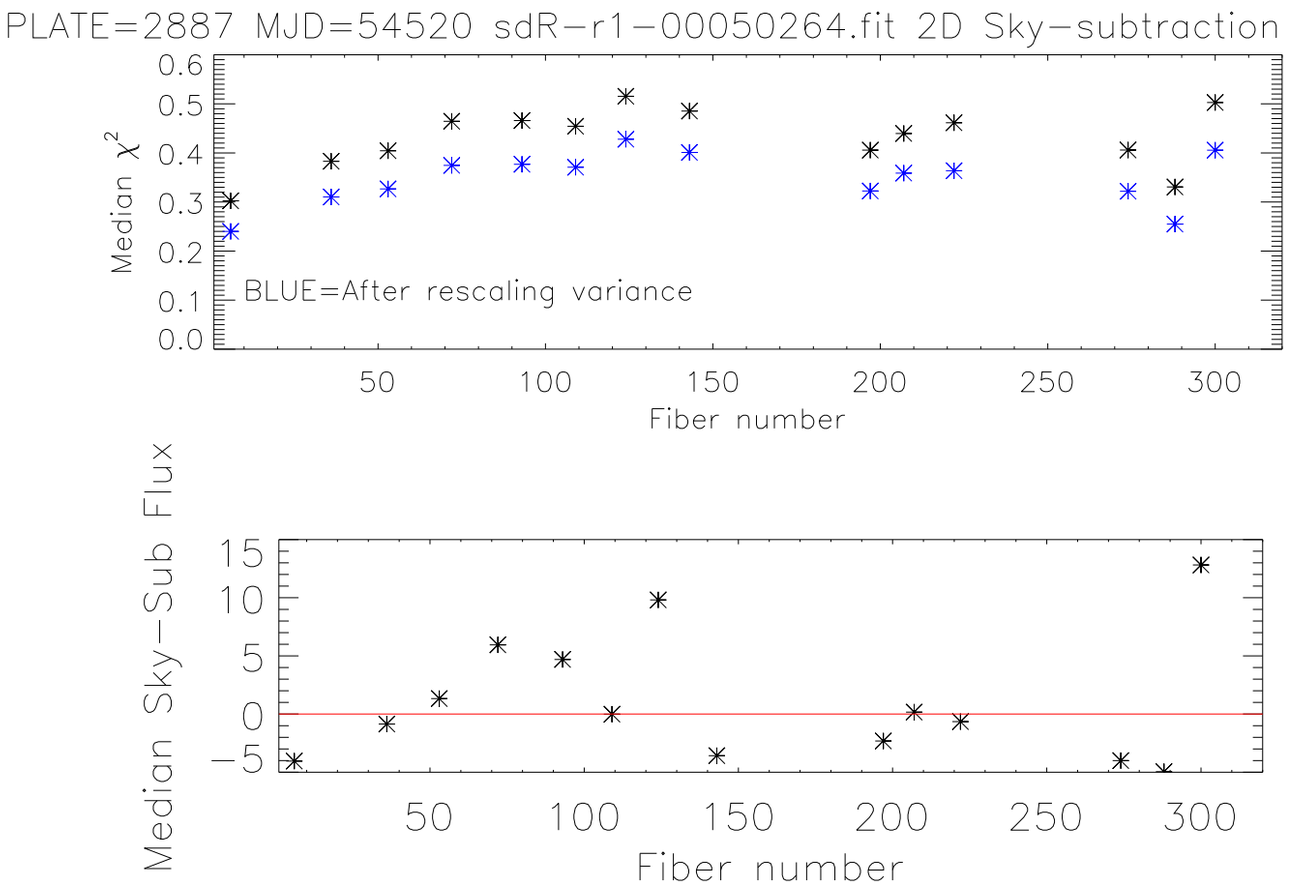

PLATE=2887 MJD=54520 Smooth superflat for sdR-r1-00050264.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

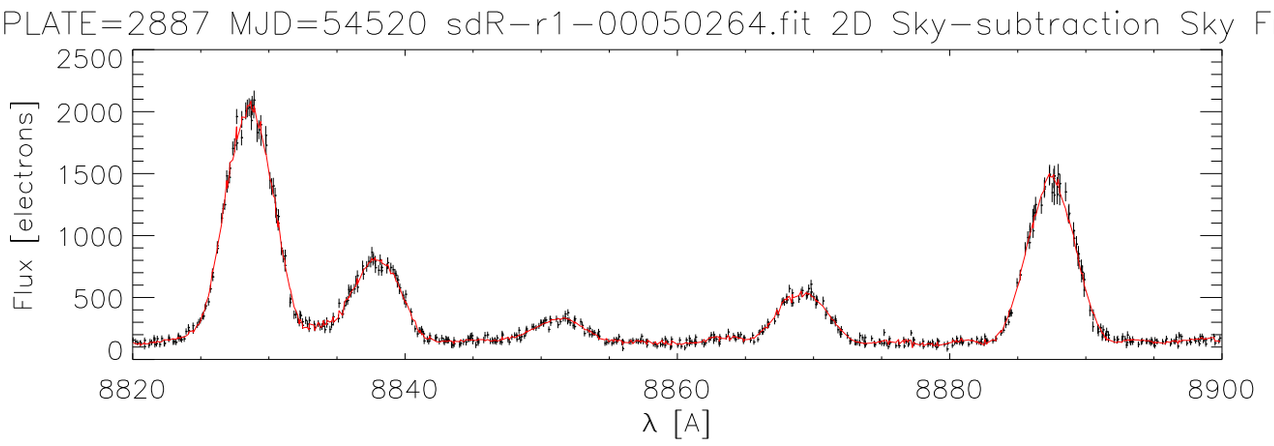

PLATE=2887 MJD=54520 sdR-r1-00050264.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

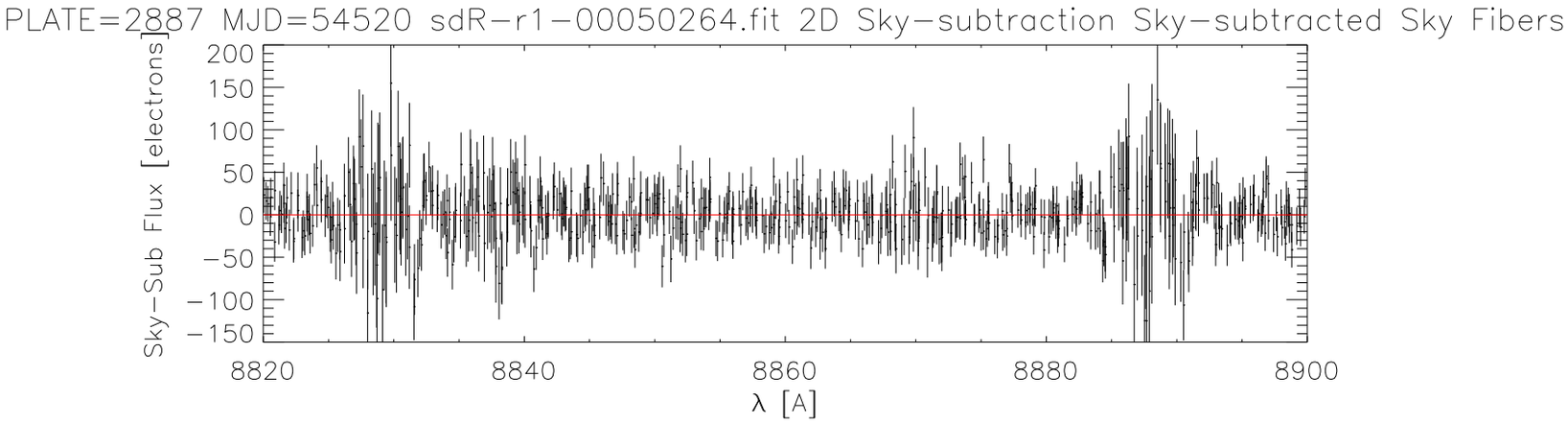

PLATE=2887 MJD=54520 sdR-r1-00050264.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

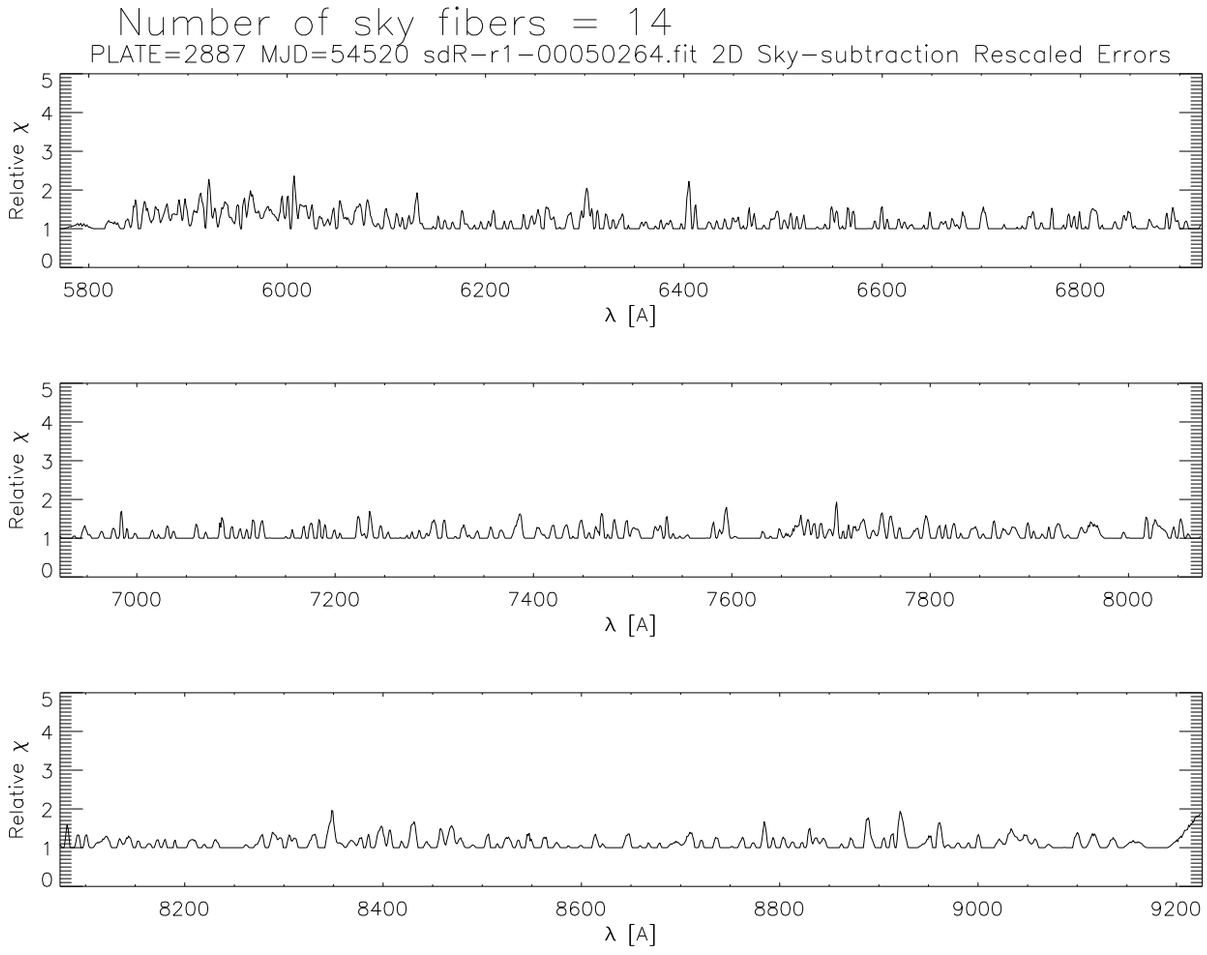

PLATE=2887 MJD=54520 sdR-r1-00050264.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

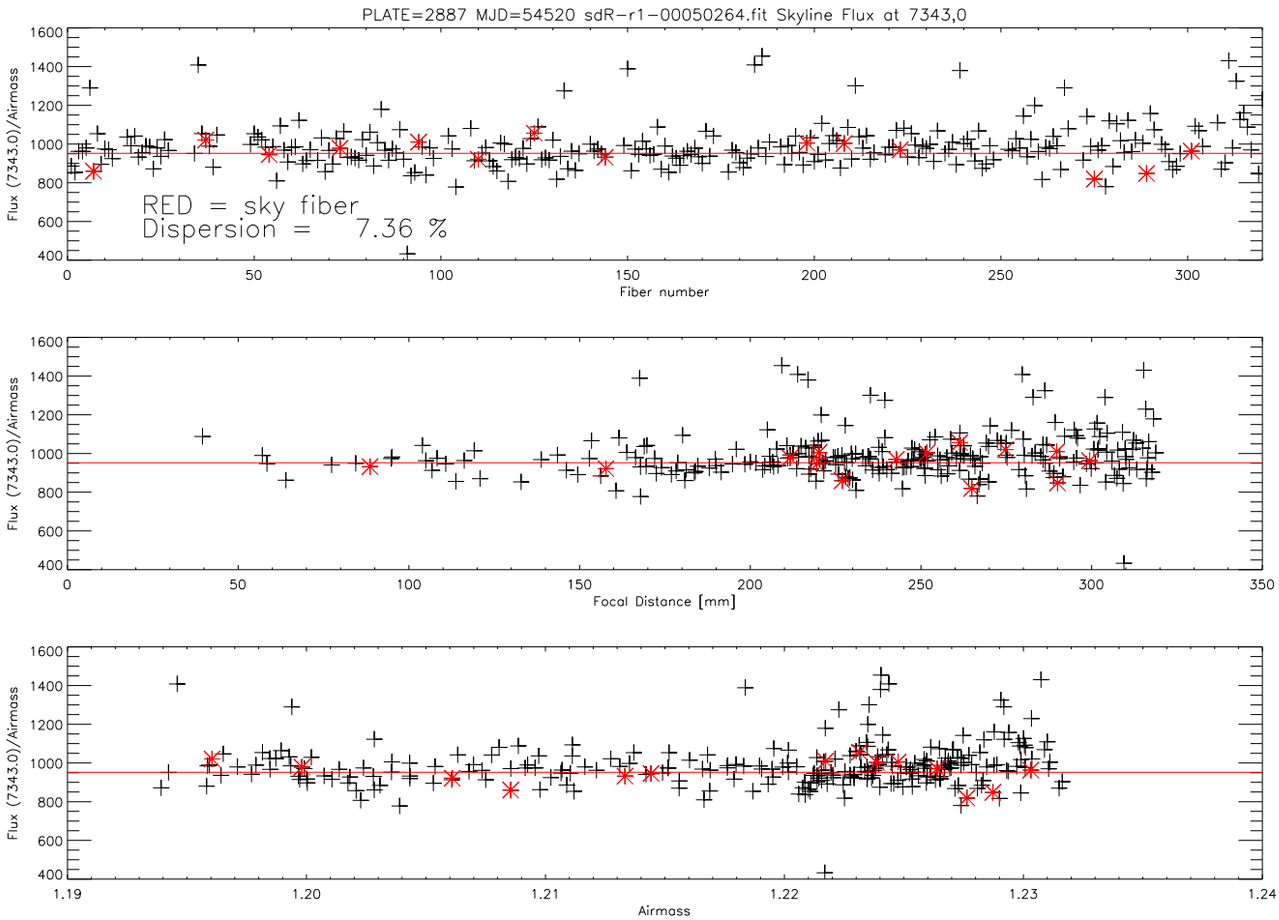

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-r1-00050264.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

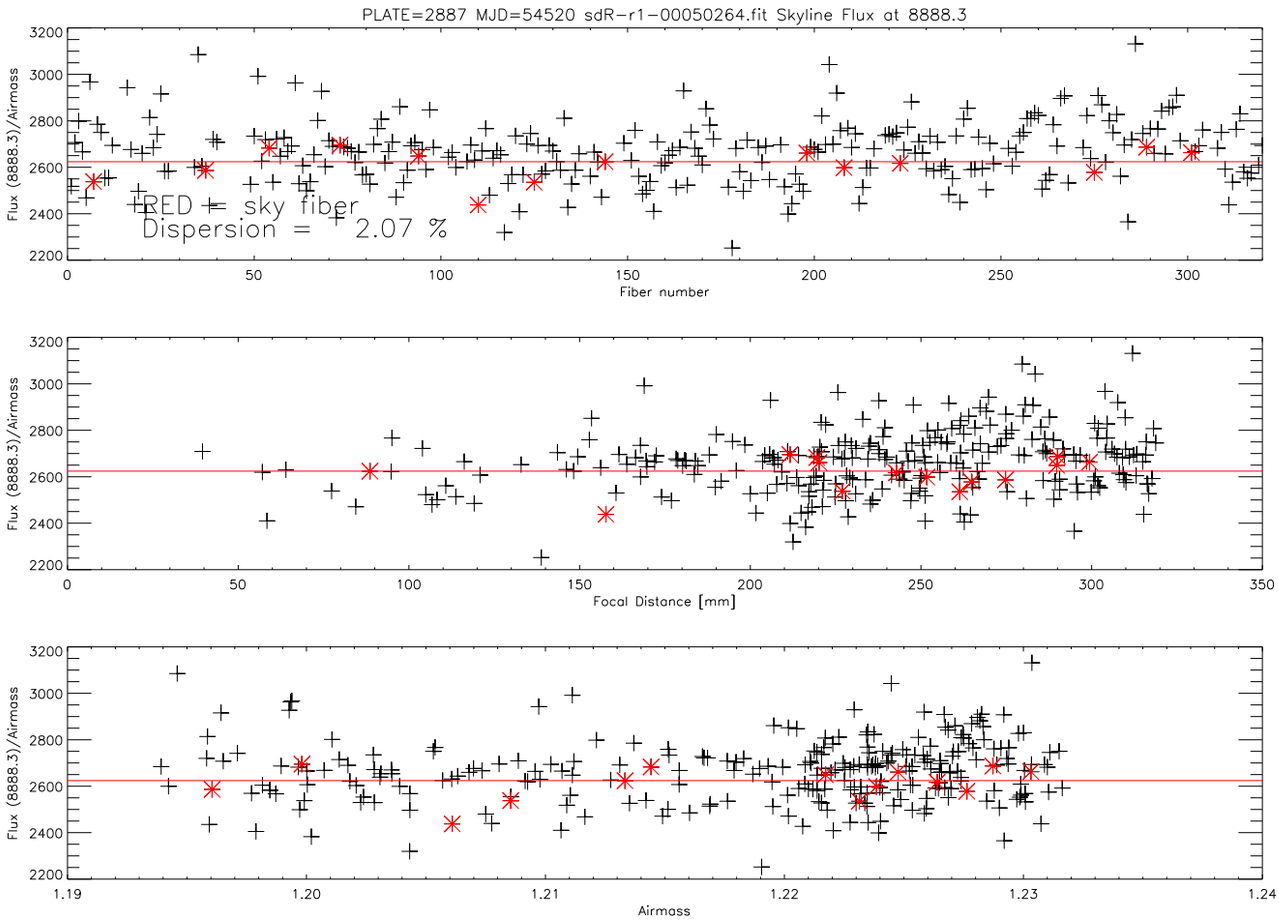

PLATE=2887 MJD=54520 sdR-r1-00050264.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

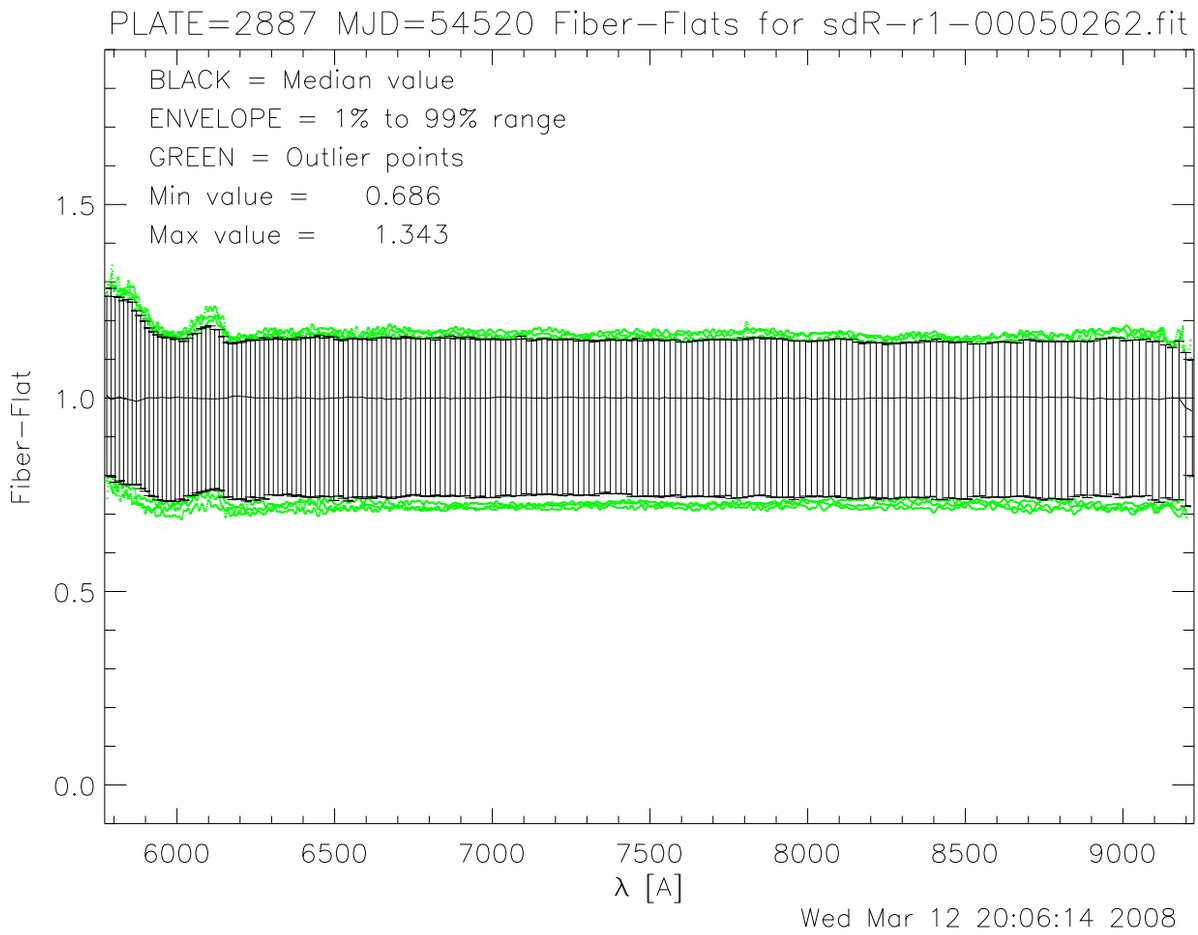

PLATE=2887 MJD=54520 sdR-r1-00050264.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

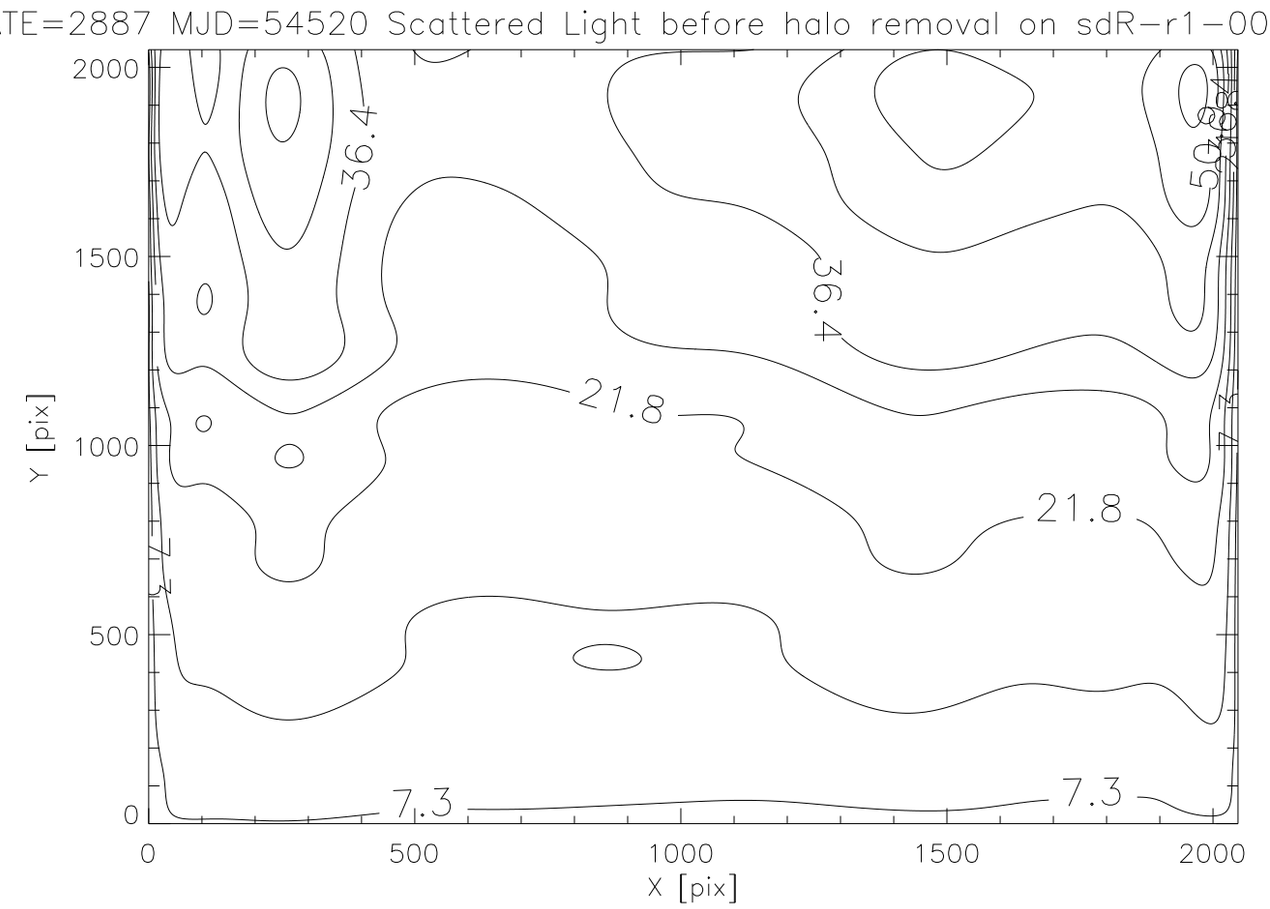

PLATE=2887 MJD=54520 sdR-r1-00050264.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

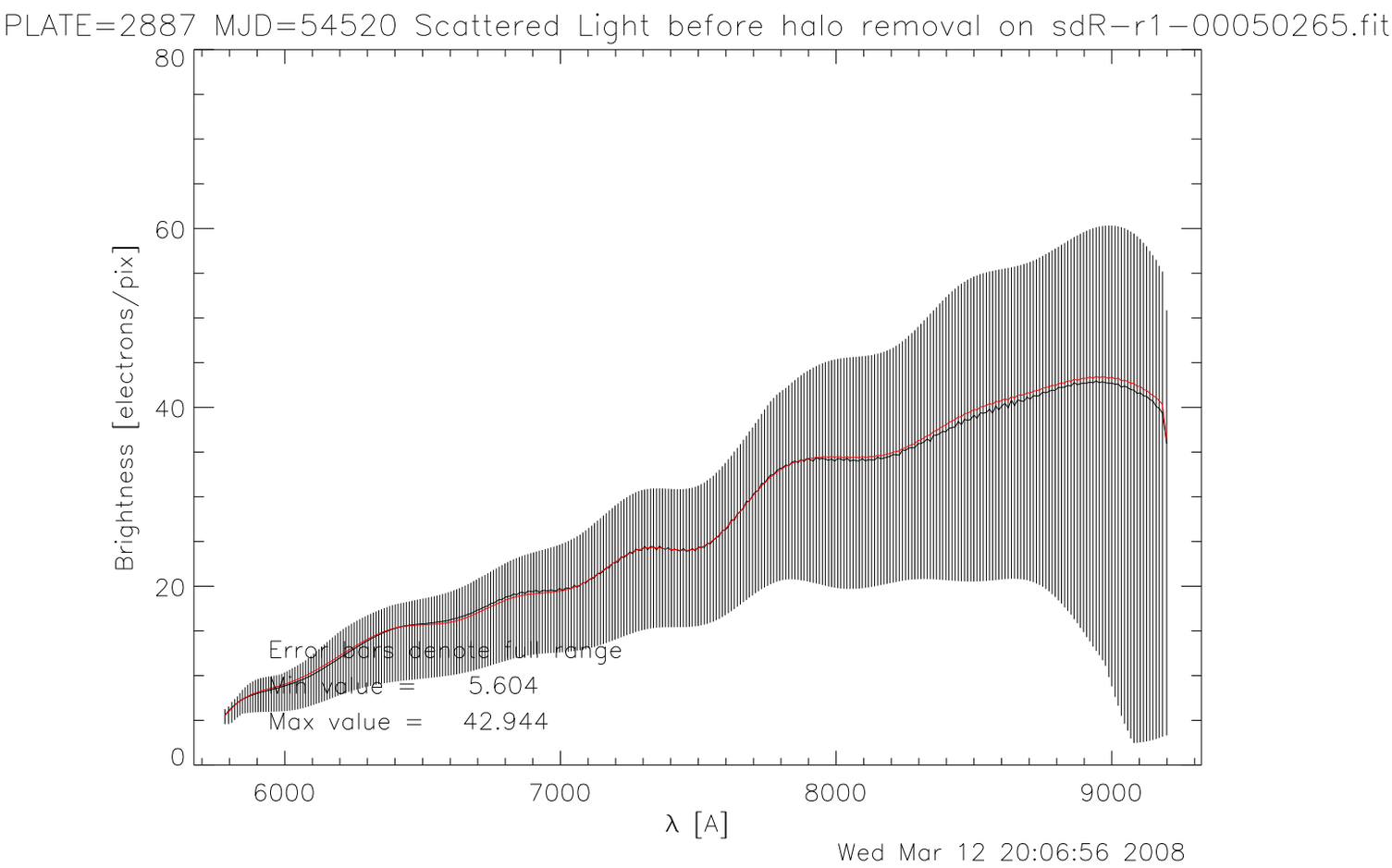

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-r1-00050264.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

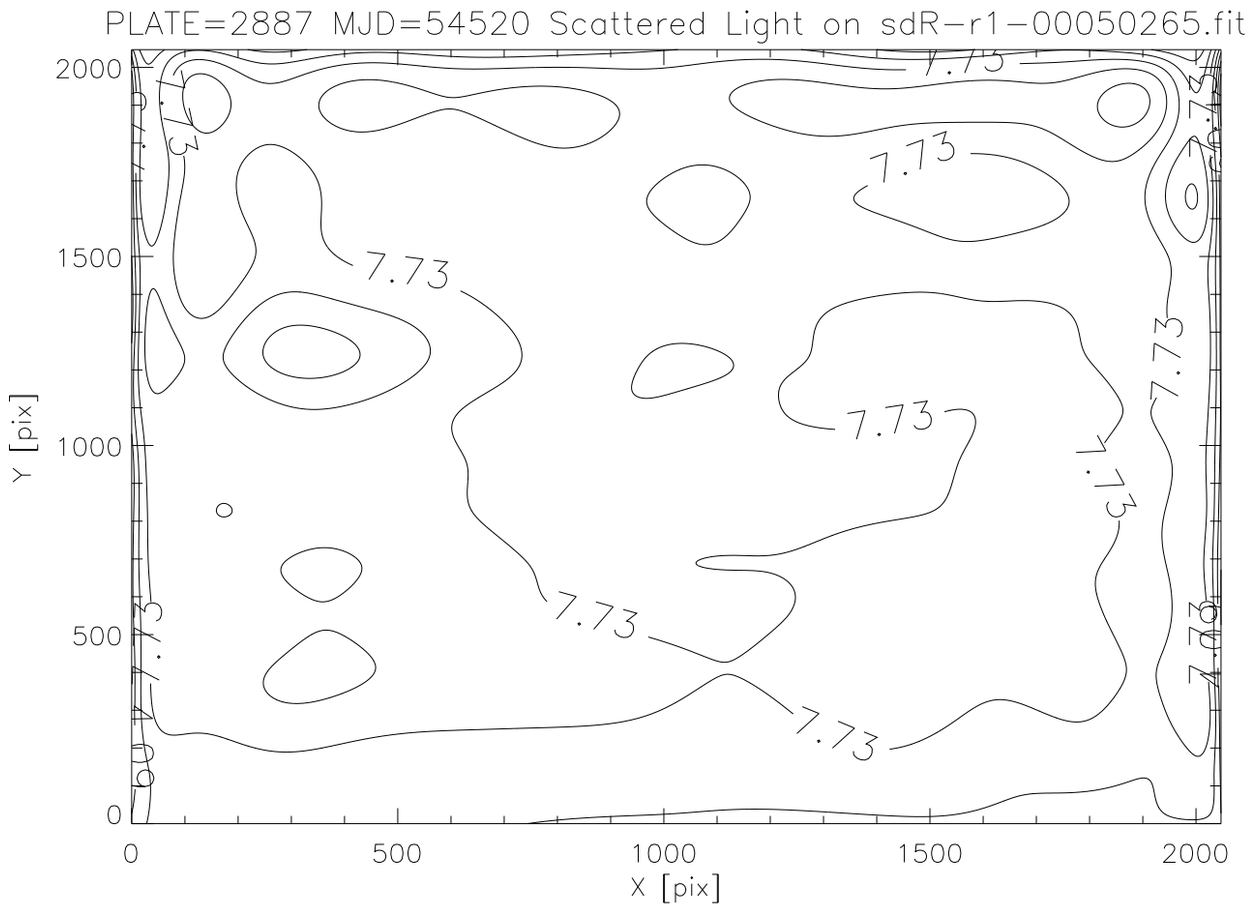

PLATE=2887 MJD=54520 sdR-r1-00050264.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 7.36 %
Fiber number
Focal Distance [mm]
Airmass

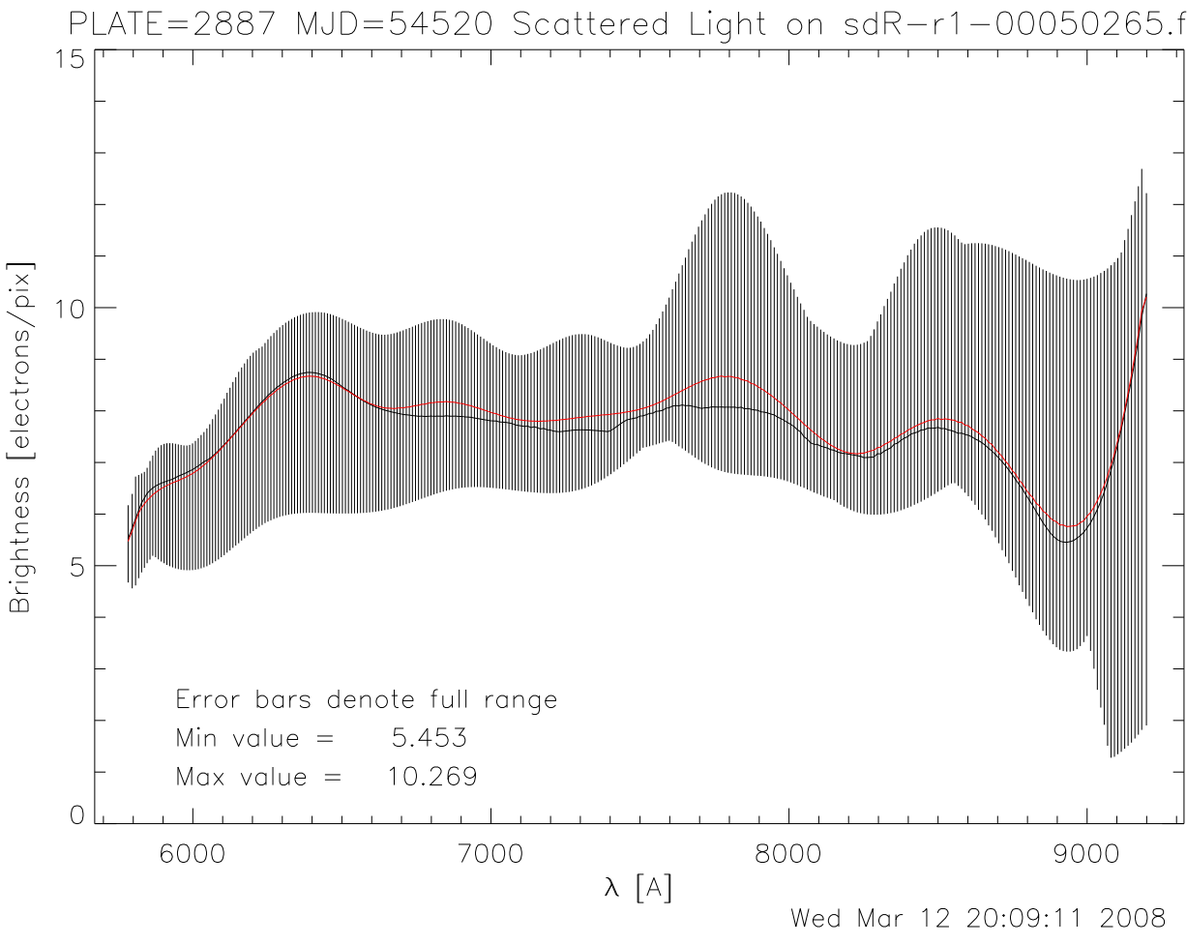

PLATE=2887 MJD=54520 sdR-r1-00050264.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.07 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

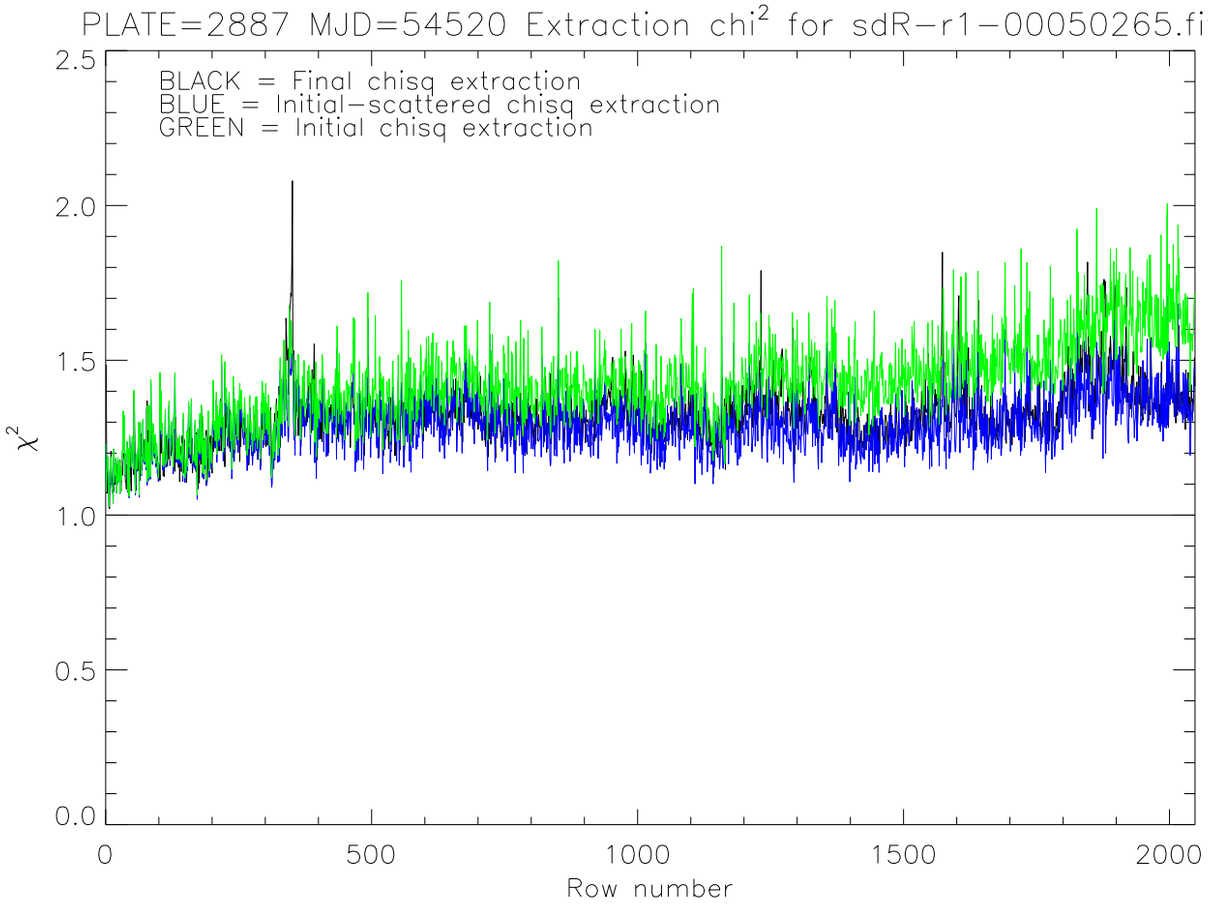

PLATE=2887 MJD=54520 Fiber-Flats for sdR-r1-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.686
Max value = 1.343
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 20:06:14 2008

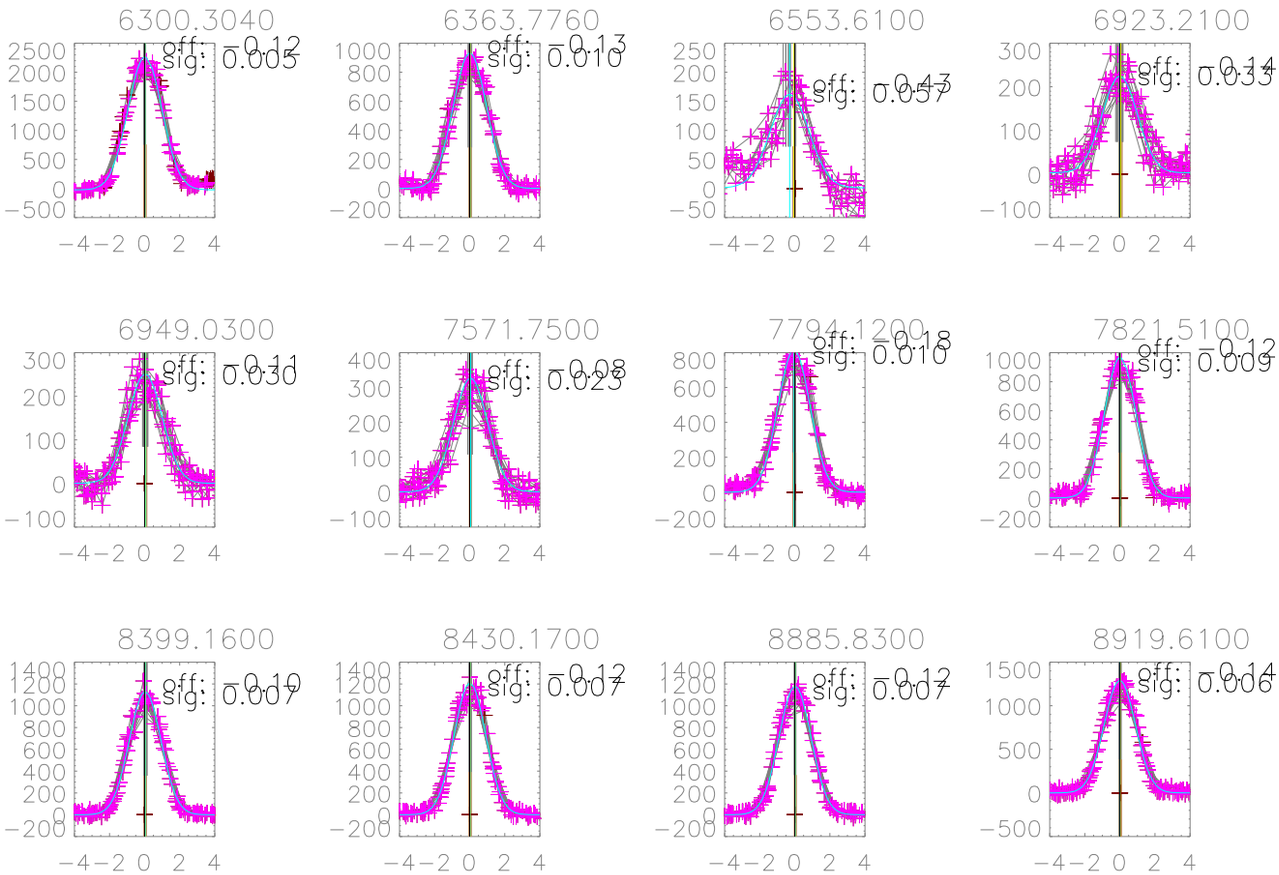

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r1-00050265.fit
36.4
36.4
21.8
21.8
7.3
7.3
7.3
0
500
1000
1500
2000
X [pix]
Y [pix]

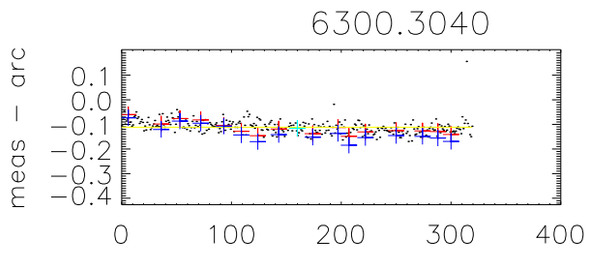

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r1-00050265.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 5.604
Max value = 42.944
Wed Mar 12 20:06:56 2008

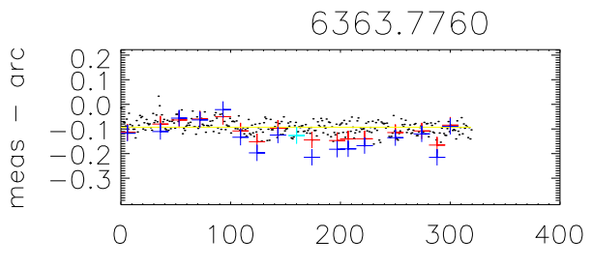

PLATE=2887 MJD=54520 Scattered Light on sdR-r1-00050265.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.73

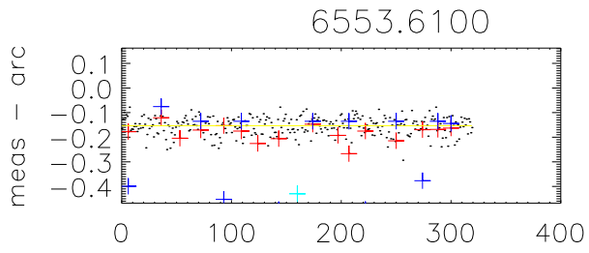

PLATE=2887 MJD=54520 Scattered Light on sdR-r1-00050265.fit
Brightness [electrons/pix]
15
10
5
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.453
Max value = 10.269
Wed Mar 12 20:09:11 2008

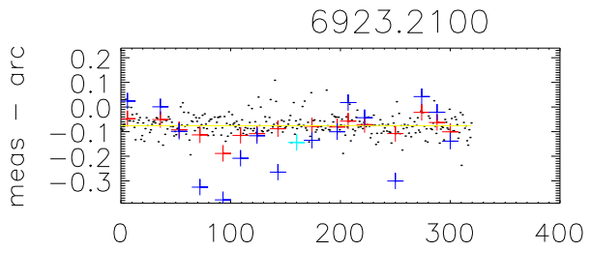

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-r1-00050265.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

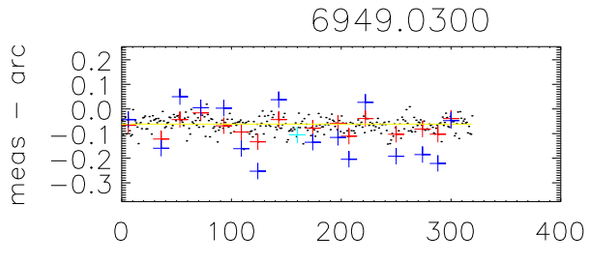

6300.3040
off: −0.12
sig: 0.005
6363.7760
off: −0.13
sig: 0.010
6553.6100
off: −0.43
sig: 0.057
6923.2100
off: −0.14
sig: 0.033
6949.0300
off: −0.11
sig: 0.030
7571.7500
off: −0.08
sig: 0.023
7794.1200
off: −0.18
sig: 0.010
7821.5100
off: −0.12
sig: 0.009
8399.1600
off: −0.10
sig: 0.007
8430.1700
off: −0.12
sig: 0.007
8885.8300
off: −0.12
sig: 0.007
8919.6100
off: −0.14
sig: 0.006

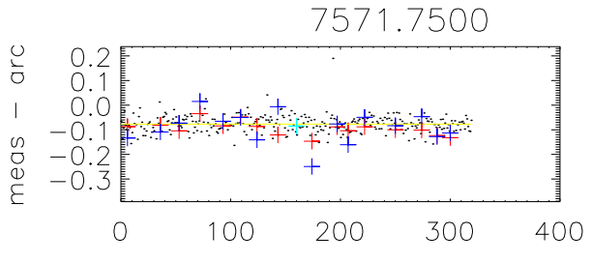

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

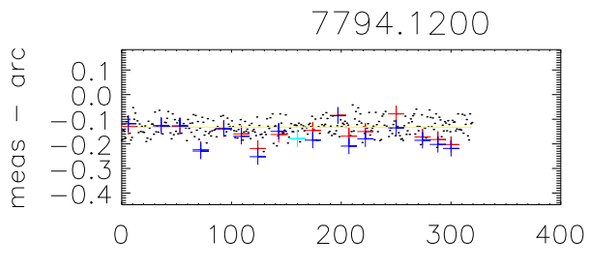

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

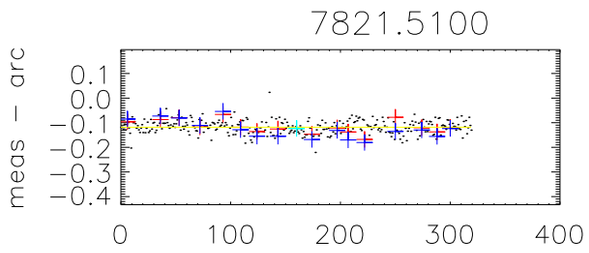

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

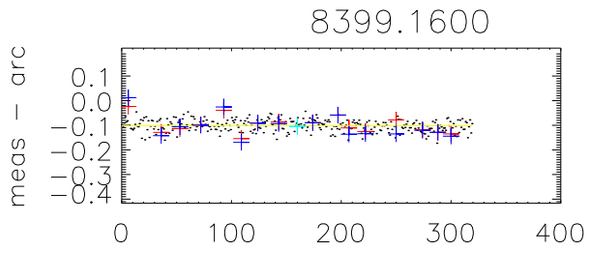

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

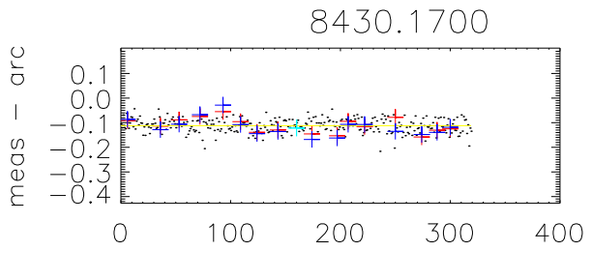

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

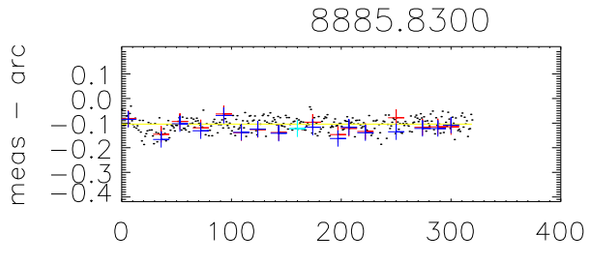

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

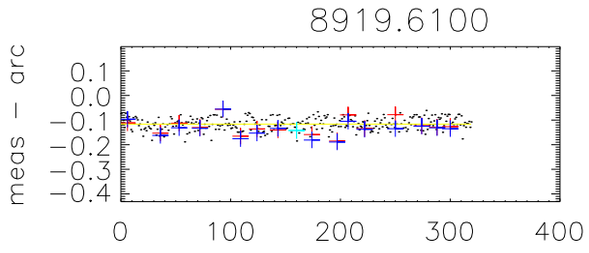

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

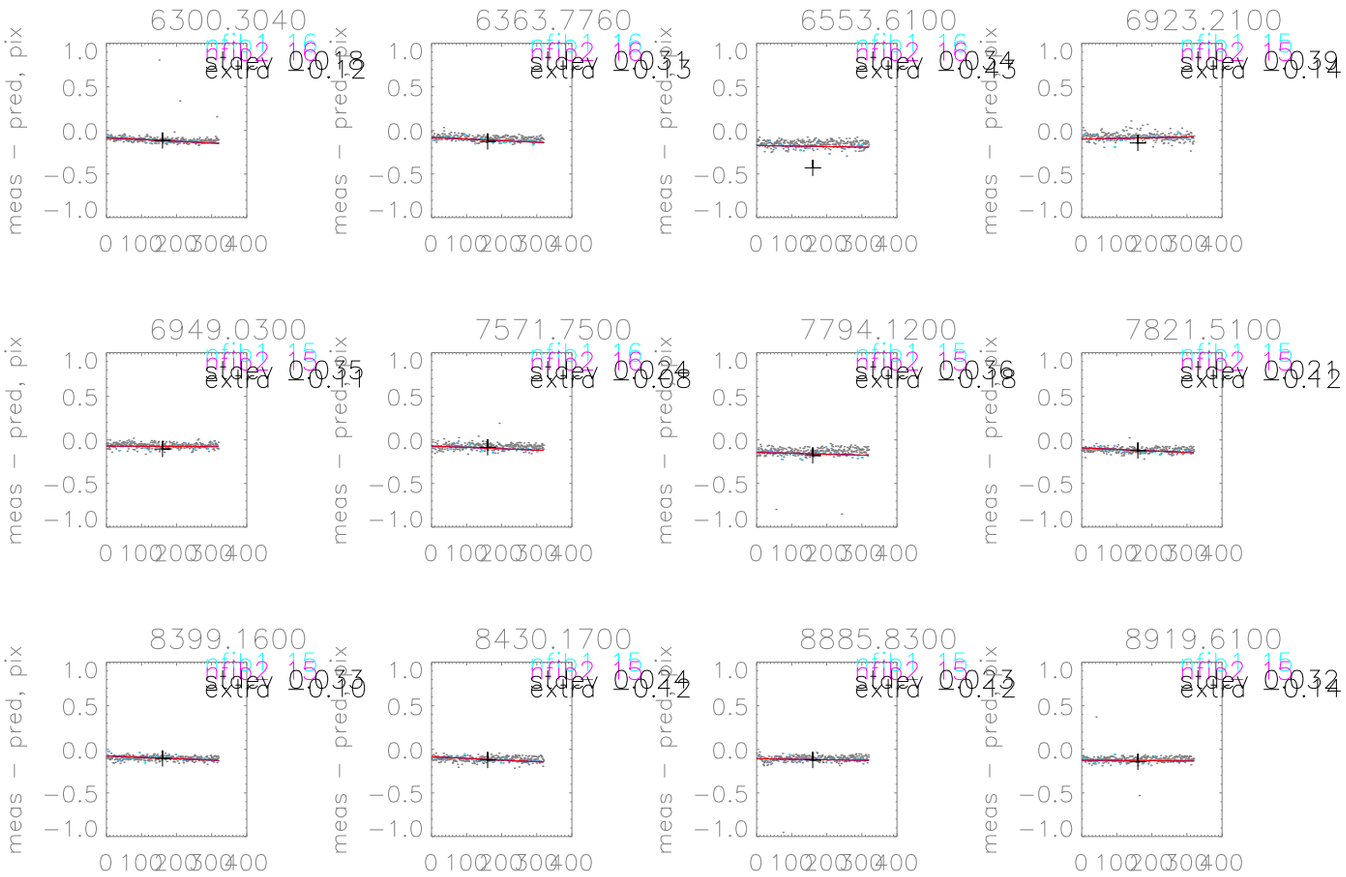

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

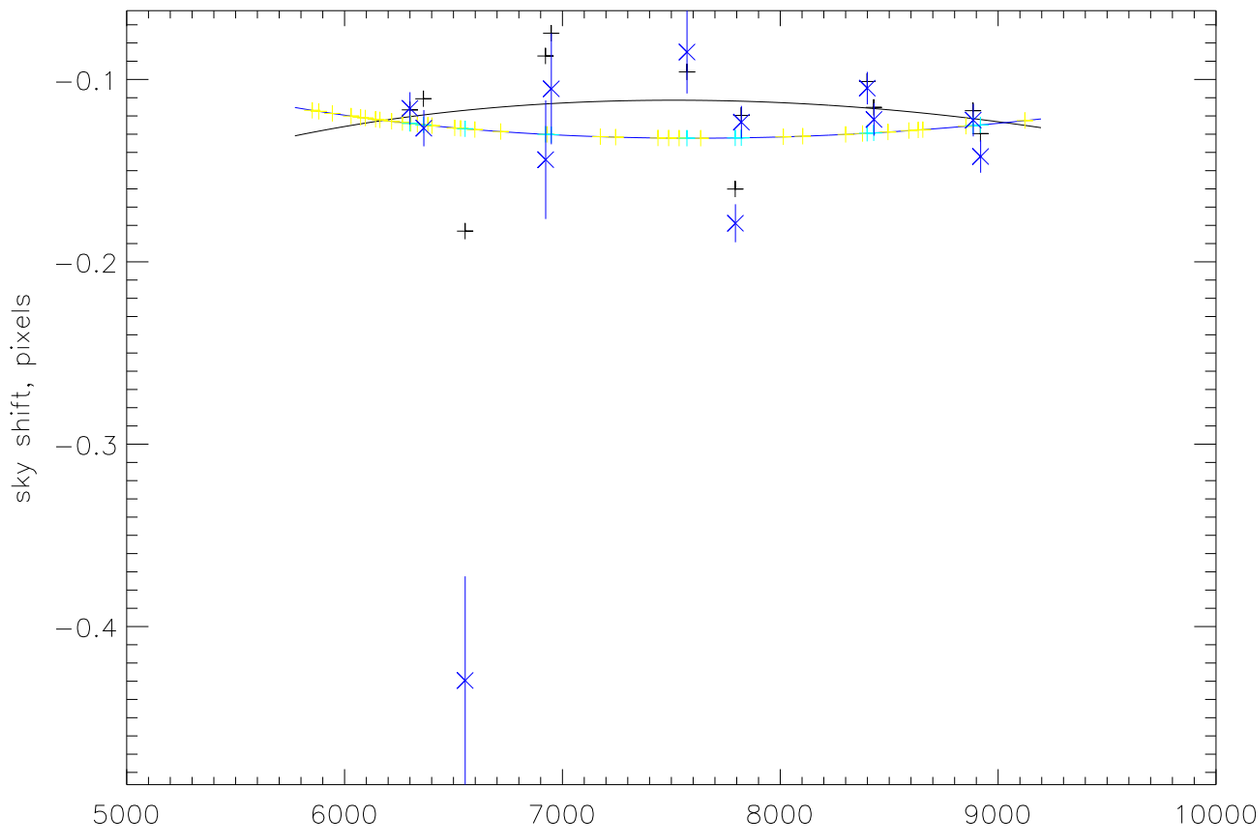

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

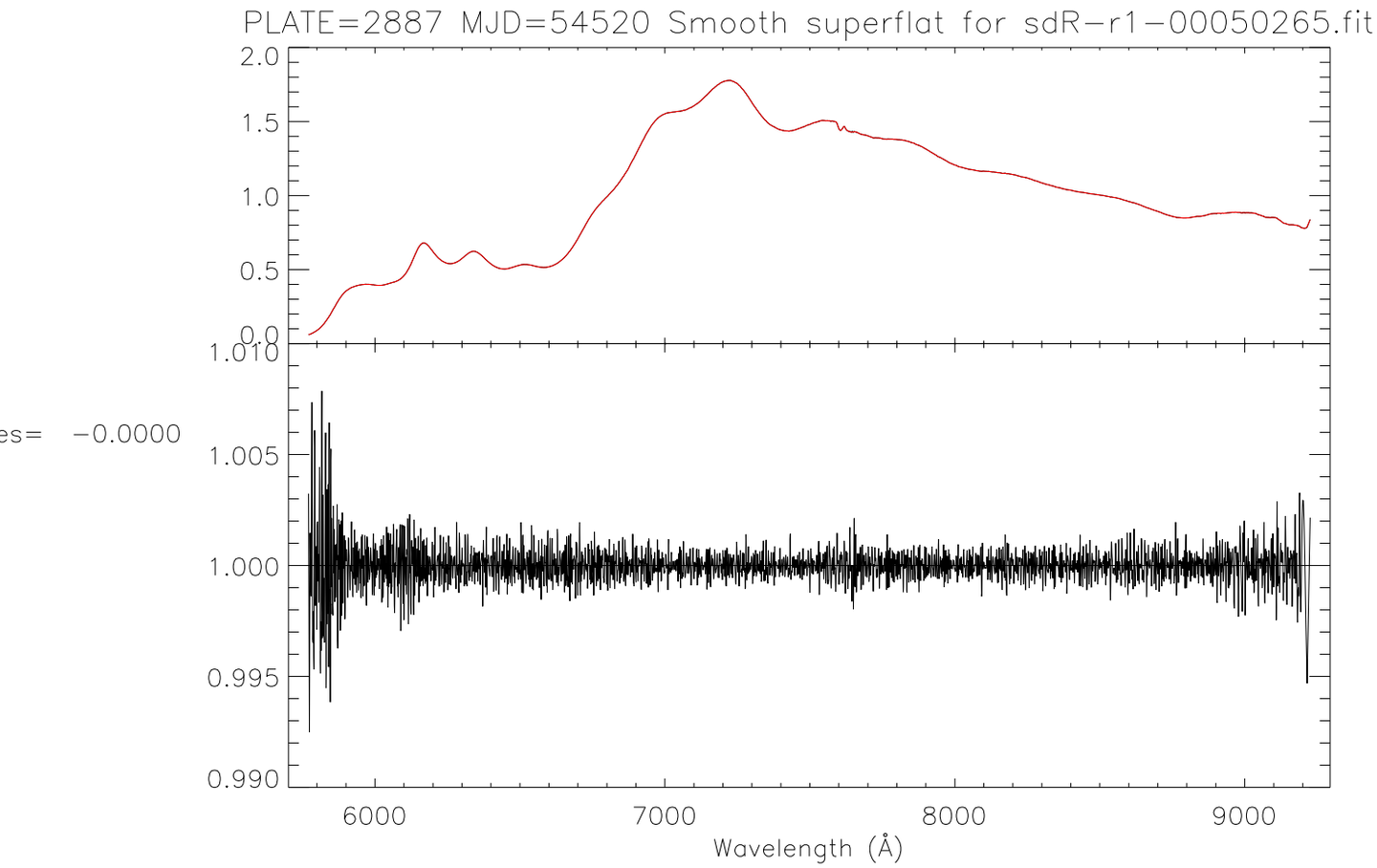

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

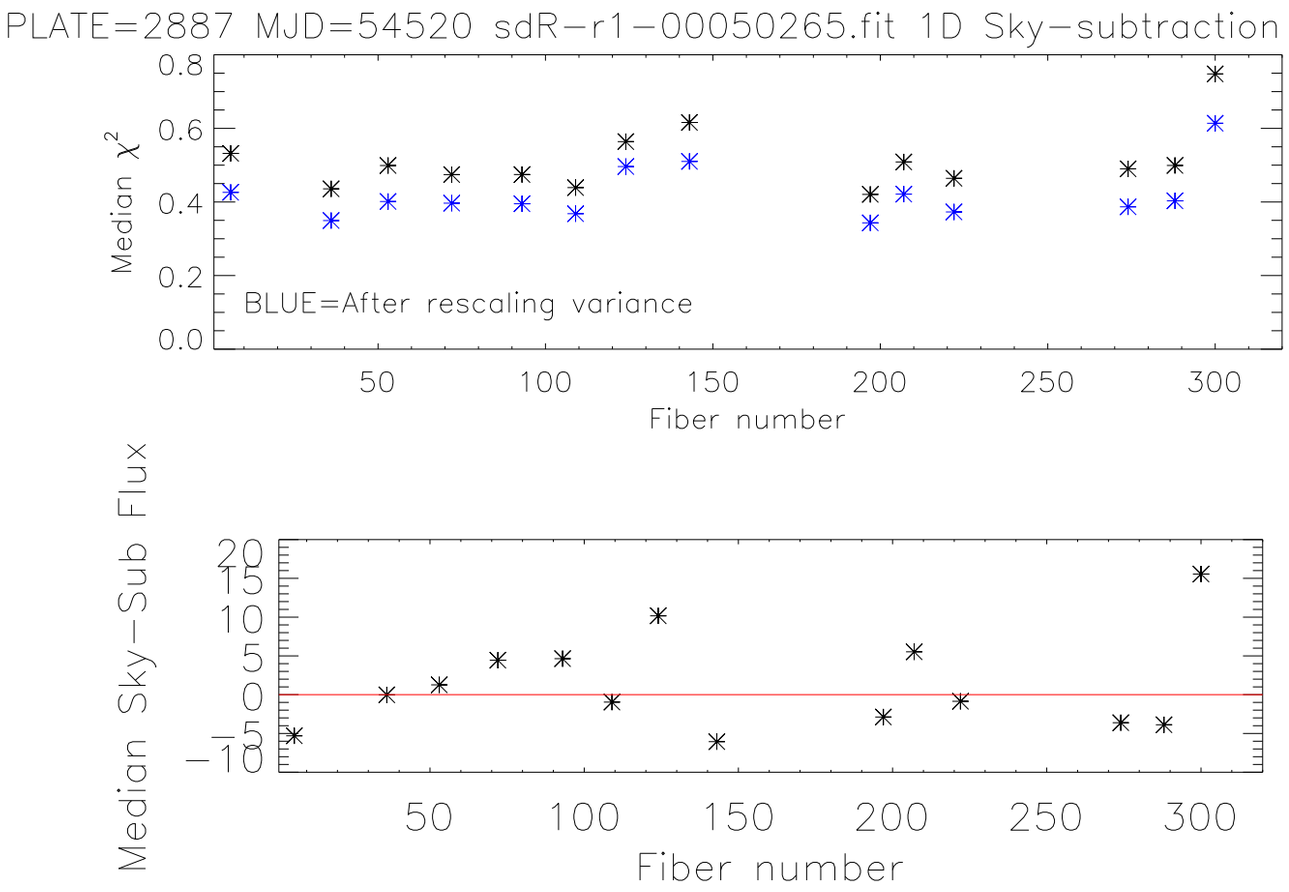

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400


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

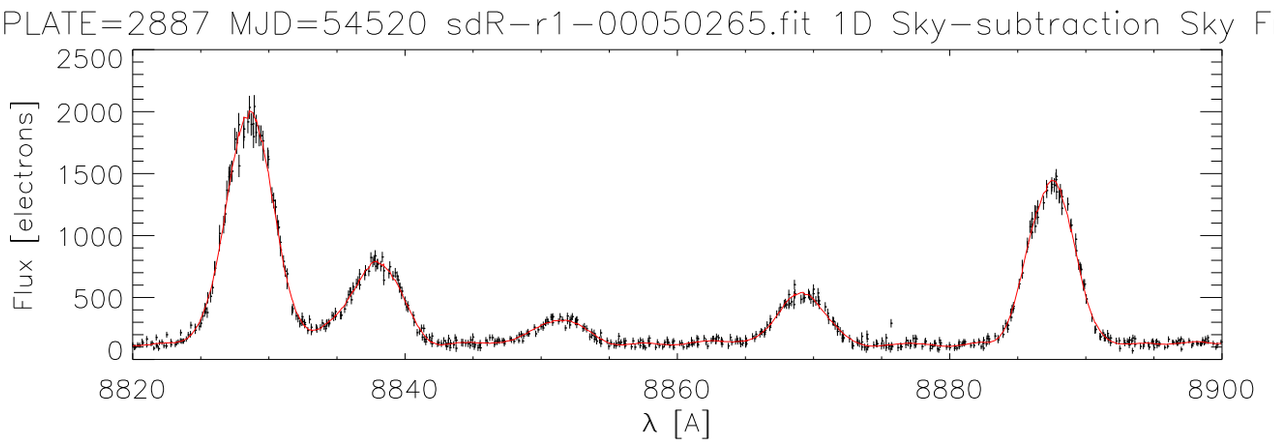

6300.3040
stdev 0.018
extra −0.12
6363.7760
stdev 0.031
extra −0.13
6553.6100
stdev 0.044
extra −0.43
6923.2100
stdev 0.039
extra −0.14
6949.0300
stdev 0.035
extra −0.11
7571.7500
stdev 0.024
extra −0.08
7794.1200
stdev 0.036
extra −0.18
7821.5100
stdev 0.021
extra −0.12
8399.1600
stdev 0.033
extra −0.10
8430.1700
stdev 0.044
extra −0.12
8885.8300
stdev 0.023
extra −0.12
8919.6100
stdev 0.032
extra −0.14
meas − pred, pix
afib1 15
afib2 16

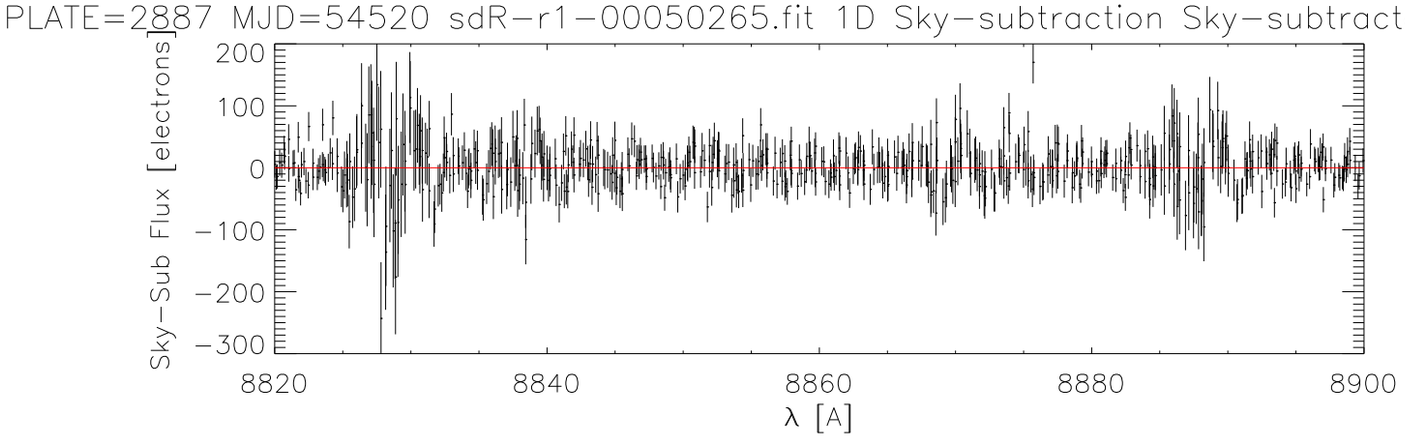

−0.1
−0.2
−0.3
−0.4
sky shift, pixels
5000
6000
7000
8000
9000
10000

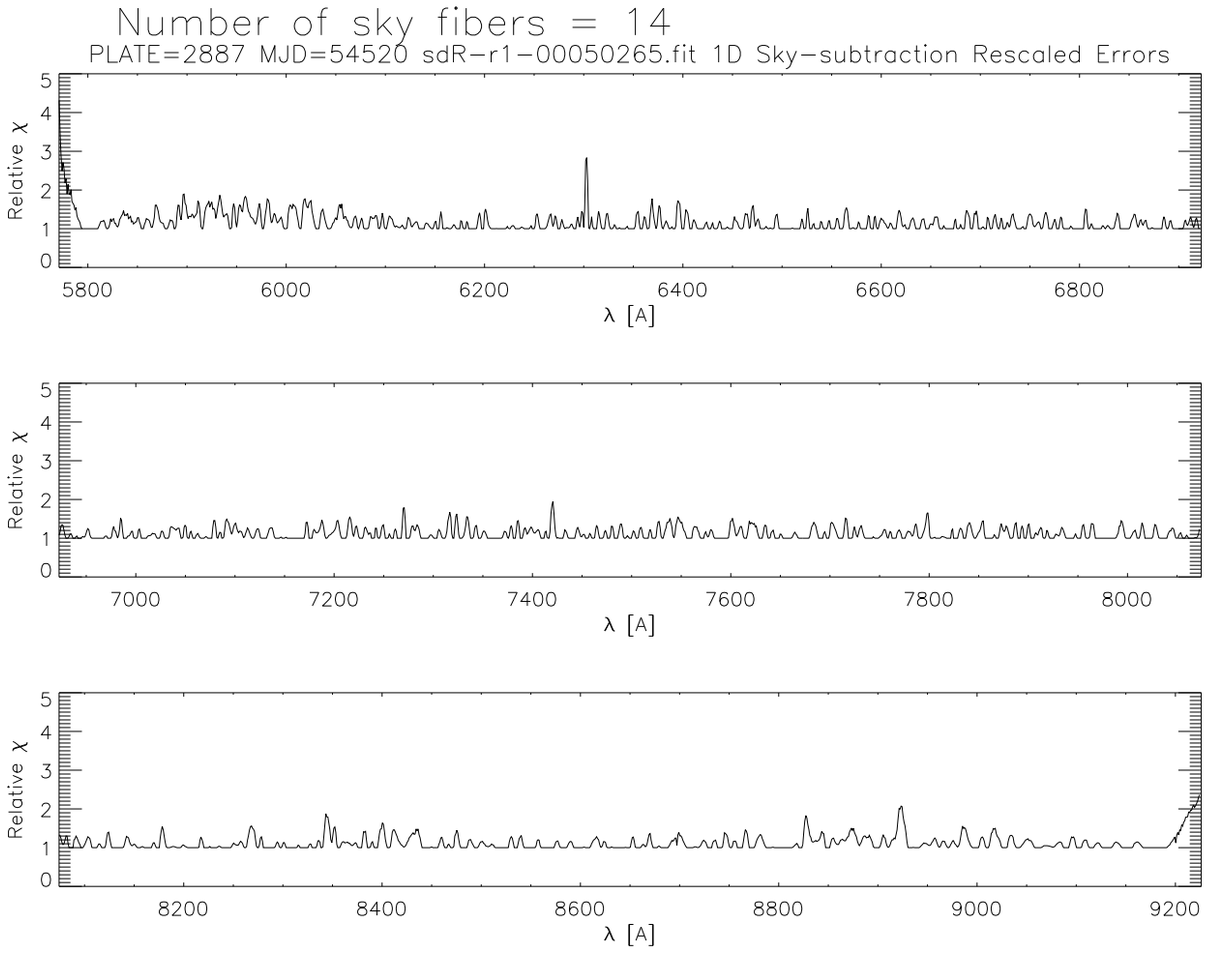

PLATE=2887 MJD=54520 Smooth superflat for sdR-r1-00050265.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

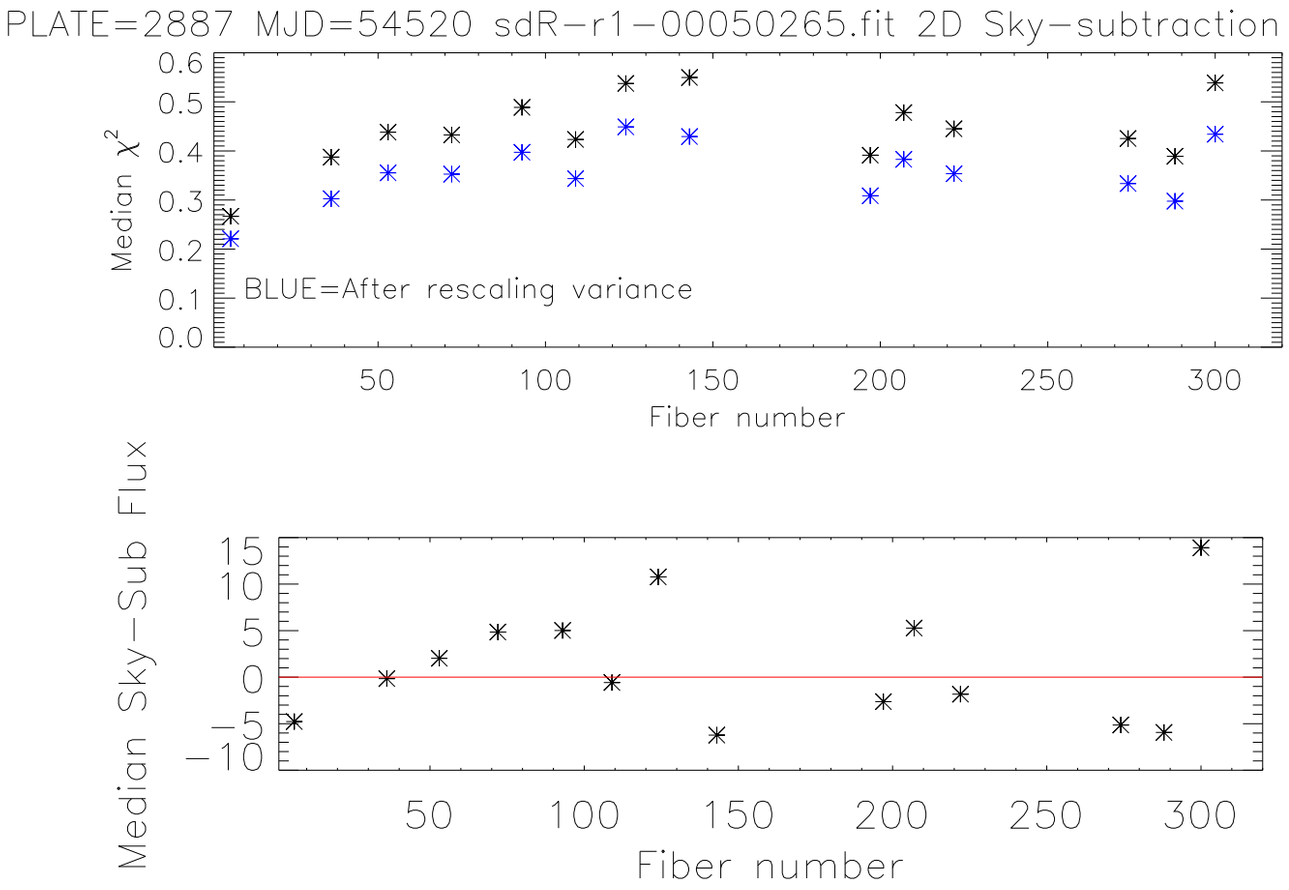

PLATE=2887 MJD=54520 sdR-r1-00050265.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

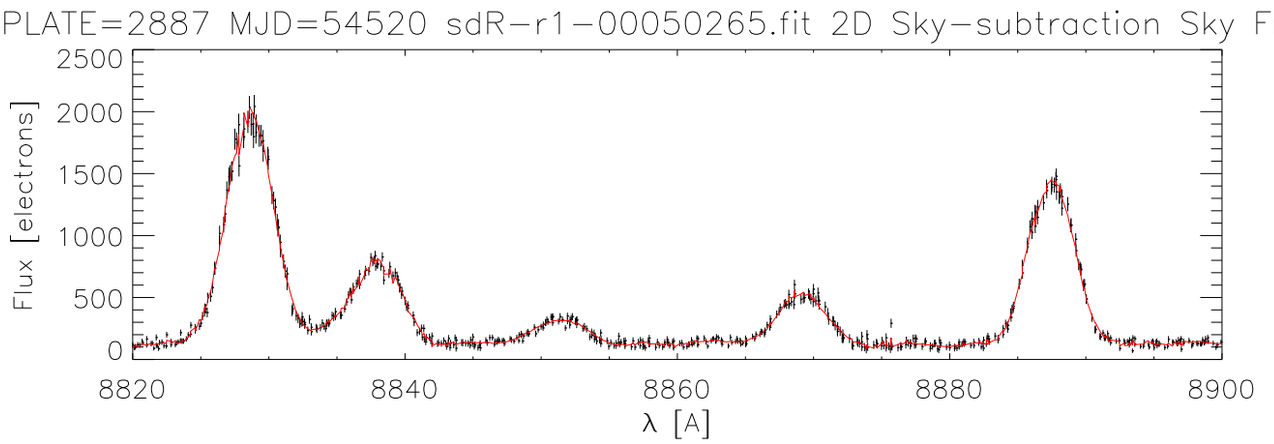
Median Sky-Sub Flux
20
15
10
5
0
-5
-10
50
100
150
200
250
300
Fiber number

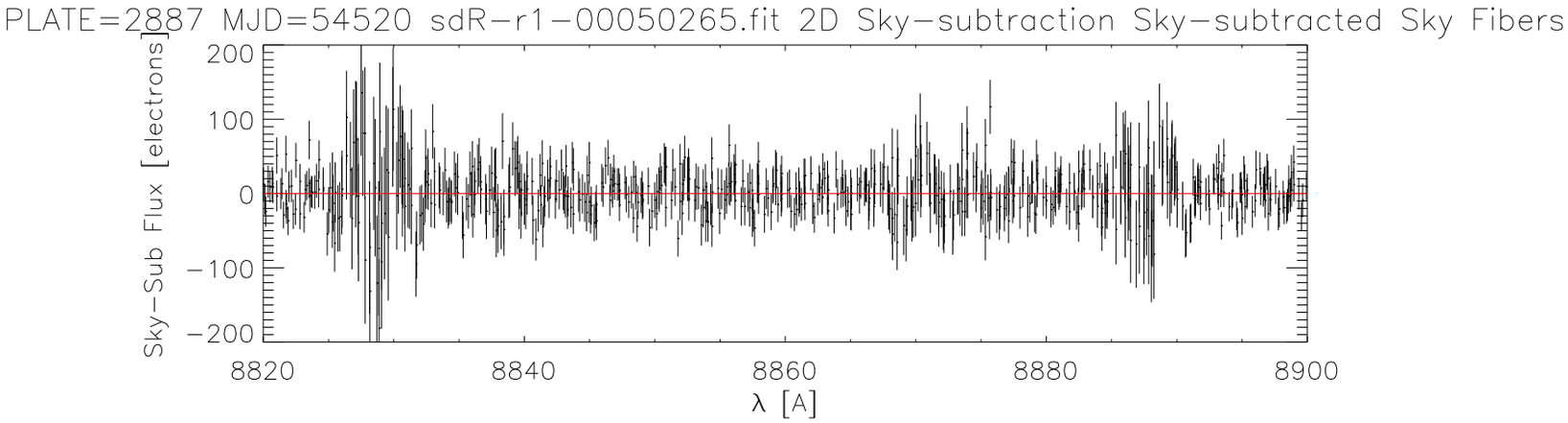

PLATE=2887 MJD=54520 sdR-r1-00050265.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

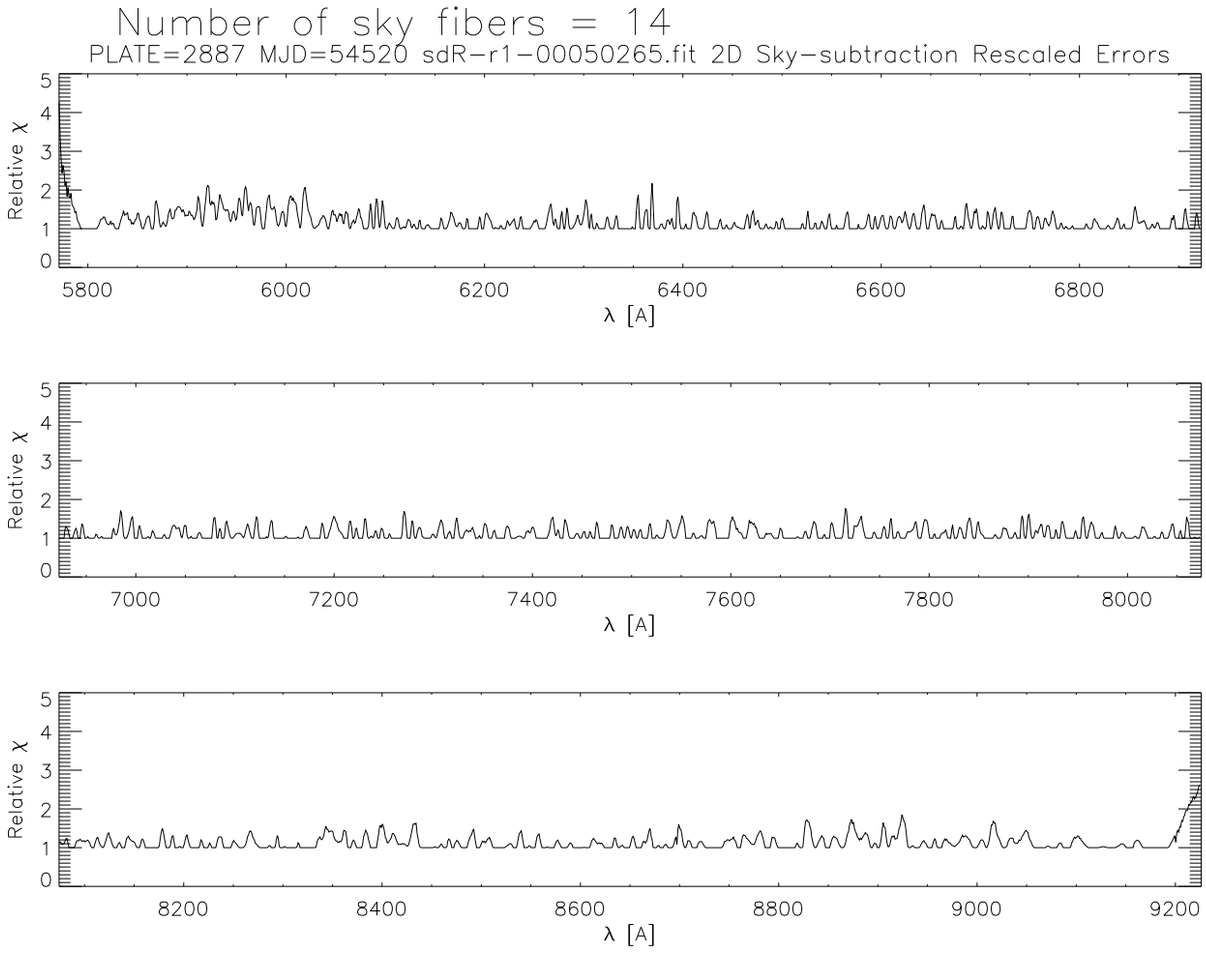

PLATE=2887 MJD=54520 sdR-r1-00050265.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
-300
8820
8840
8860
8880
8900
λ [A]

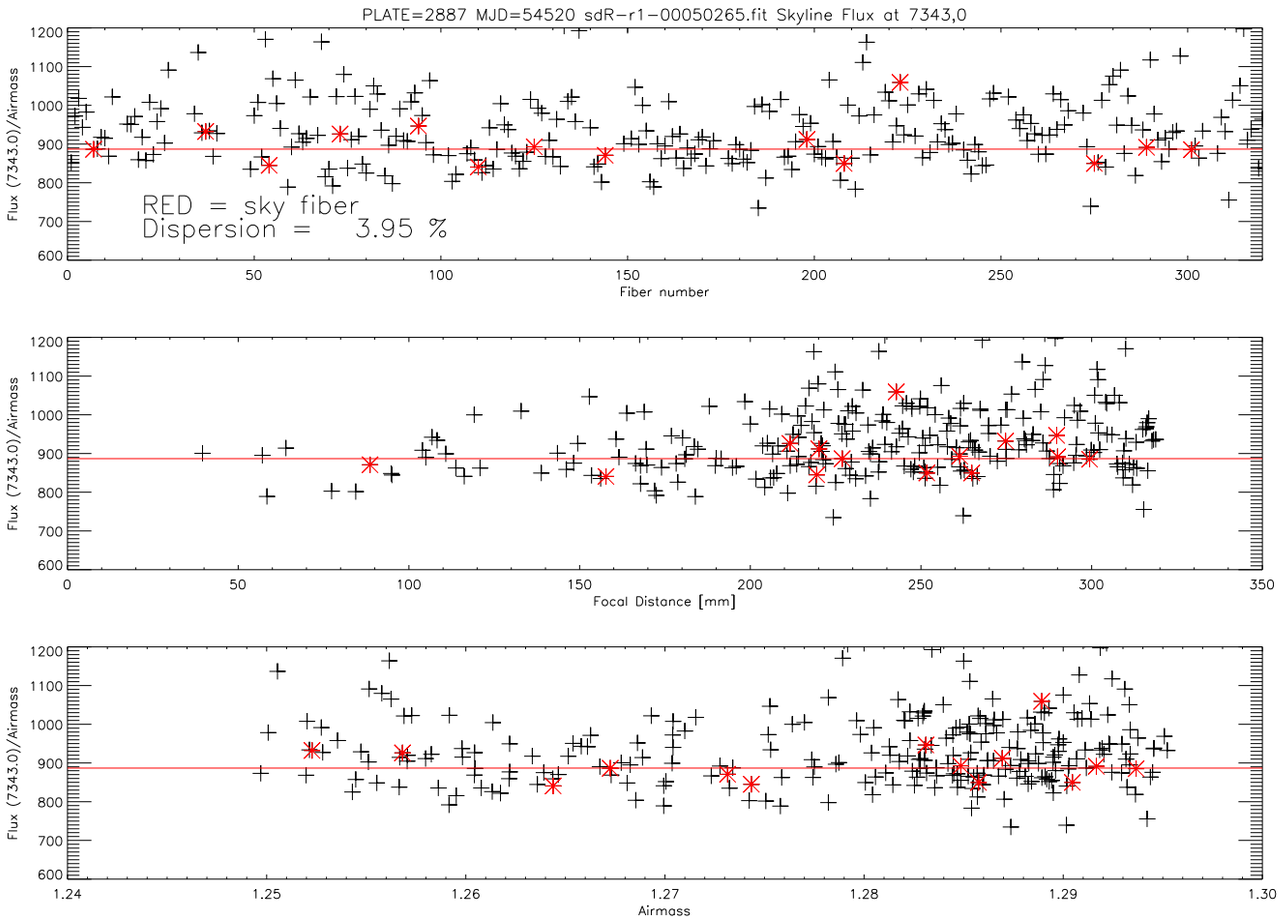

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-r1-00050265.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200

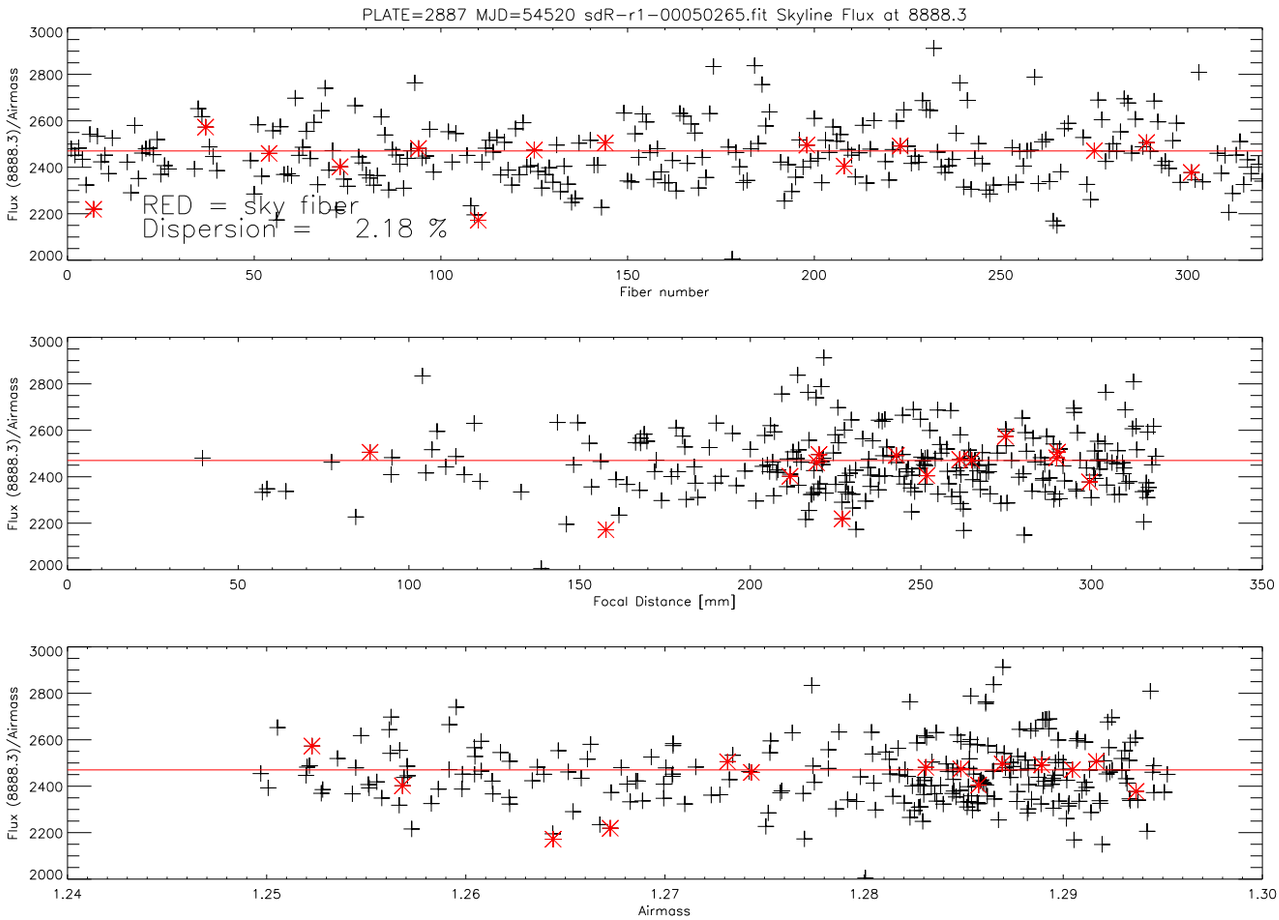

PLATE=2887 MJD=54520 sdR-r1-00050265.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

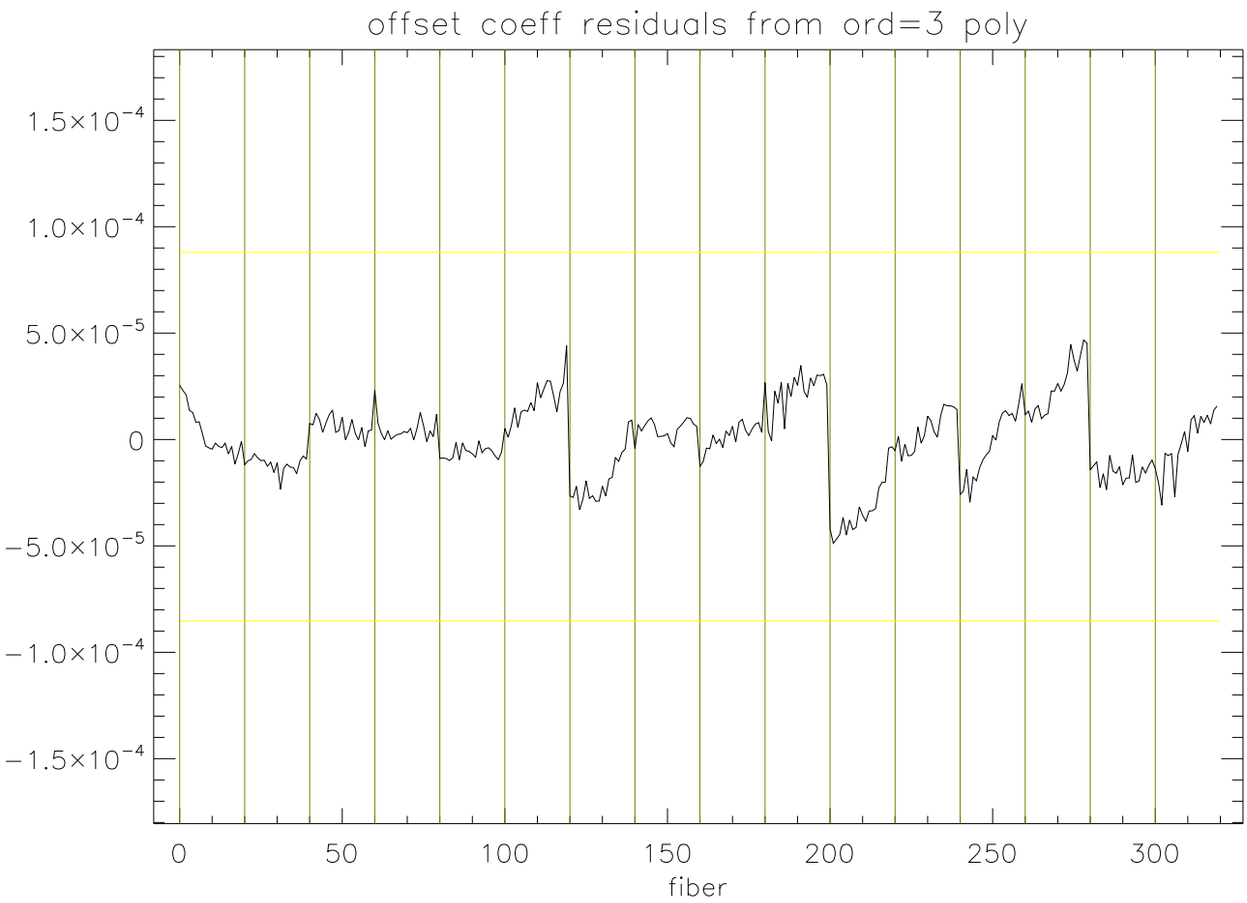

PLATE=2887 MJD=54520 sdR-r1-00050265.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

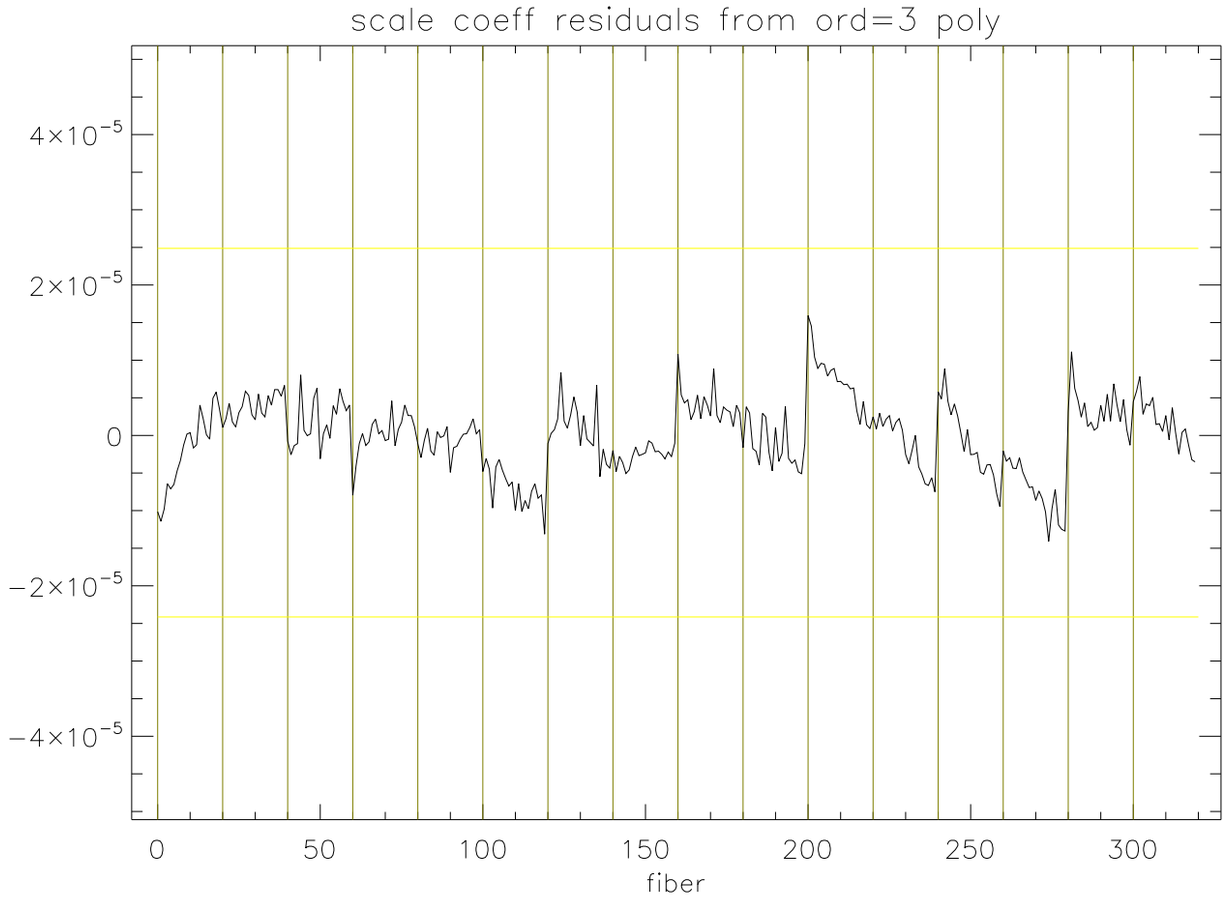

PLATE=2887 MJD=54520 sdR-r1-00050265.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

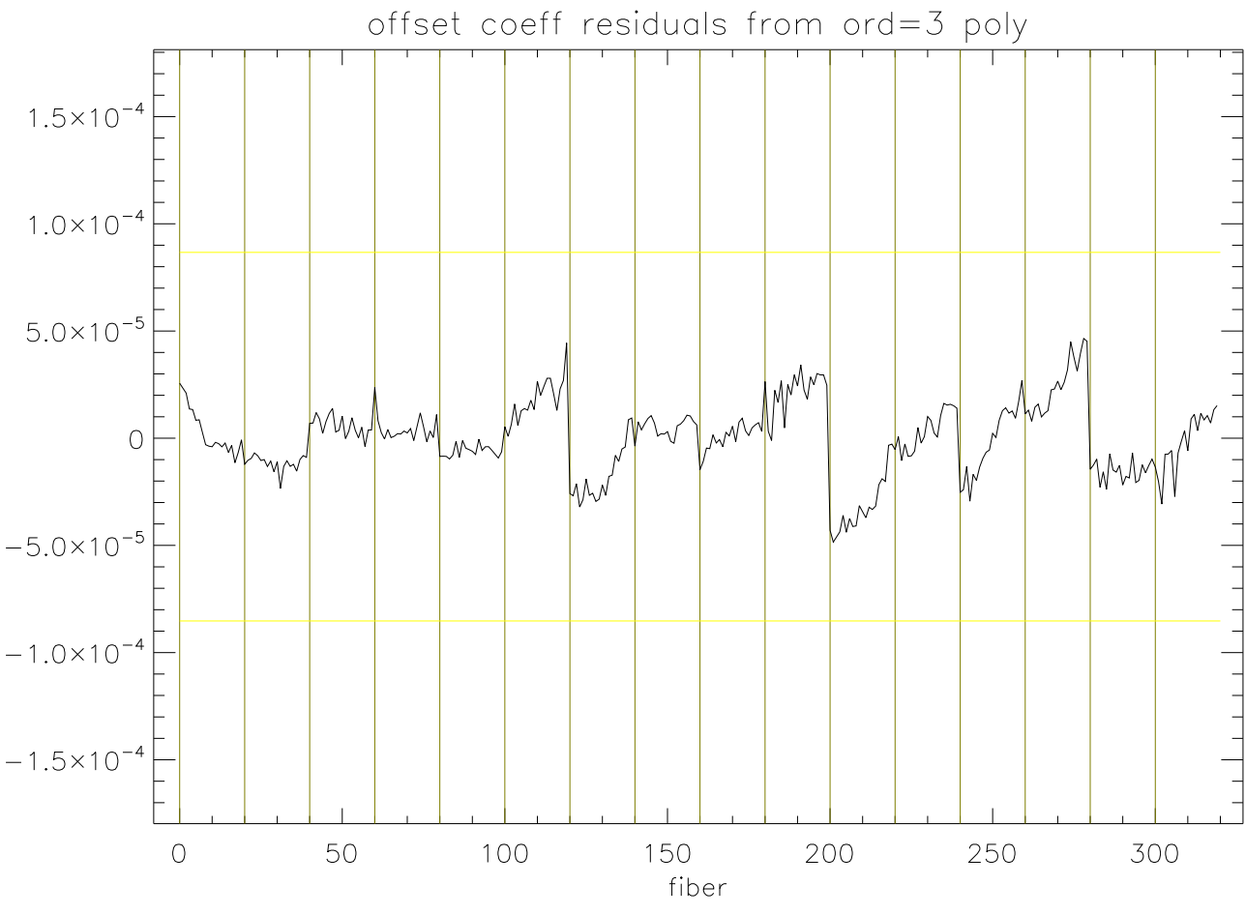

Number of sky fibers = 14
PLATE=2887 MJD=54520 sdR-r1-00050265.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

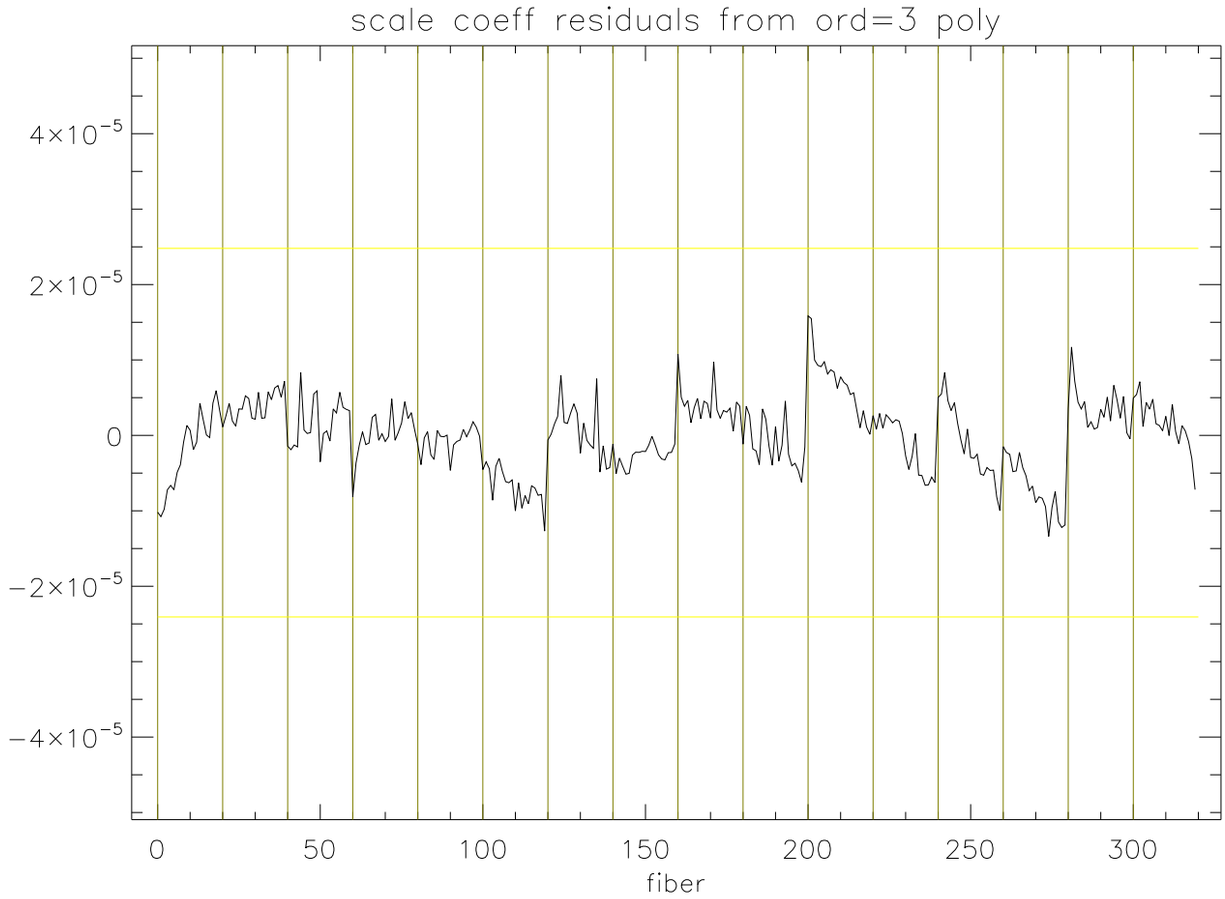

PLATE=2887 MJD=54520 sdR-r1-00050265.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 3.95 %
Fiber number
Focal Distance [mm]
Airmass

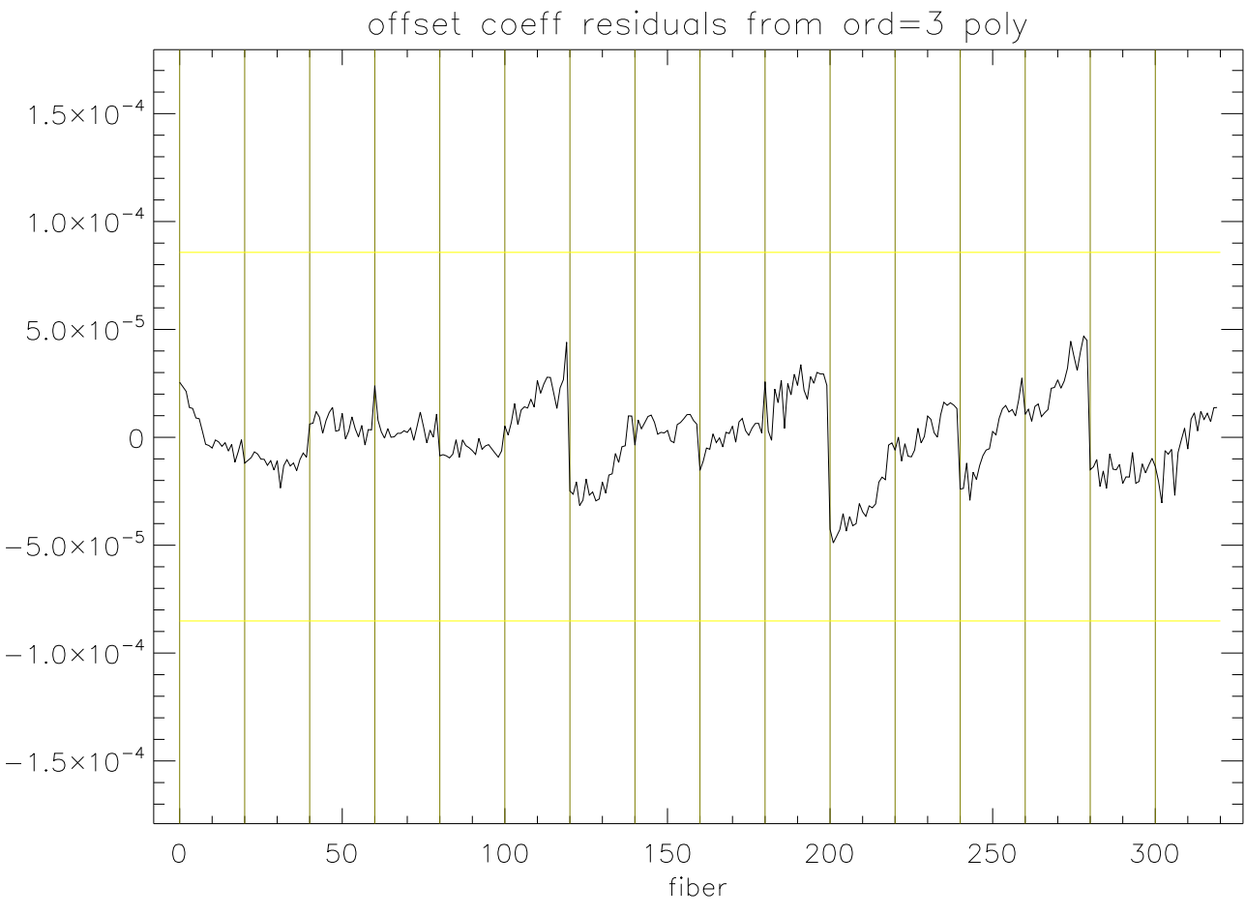

PLATE=2887 MJD=54520 sdR-r1-00050265.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.18 %
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

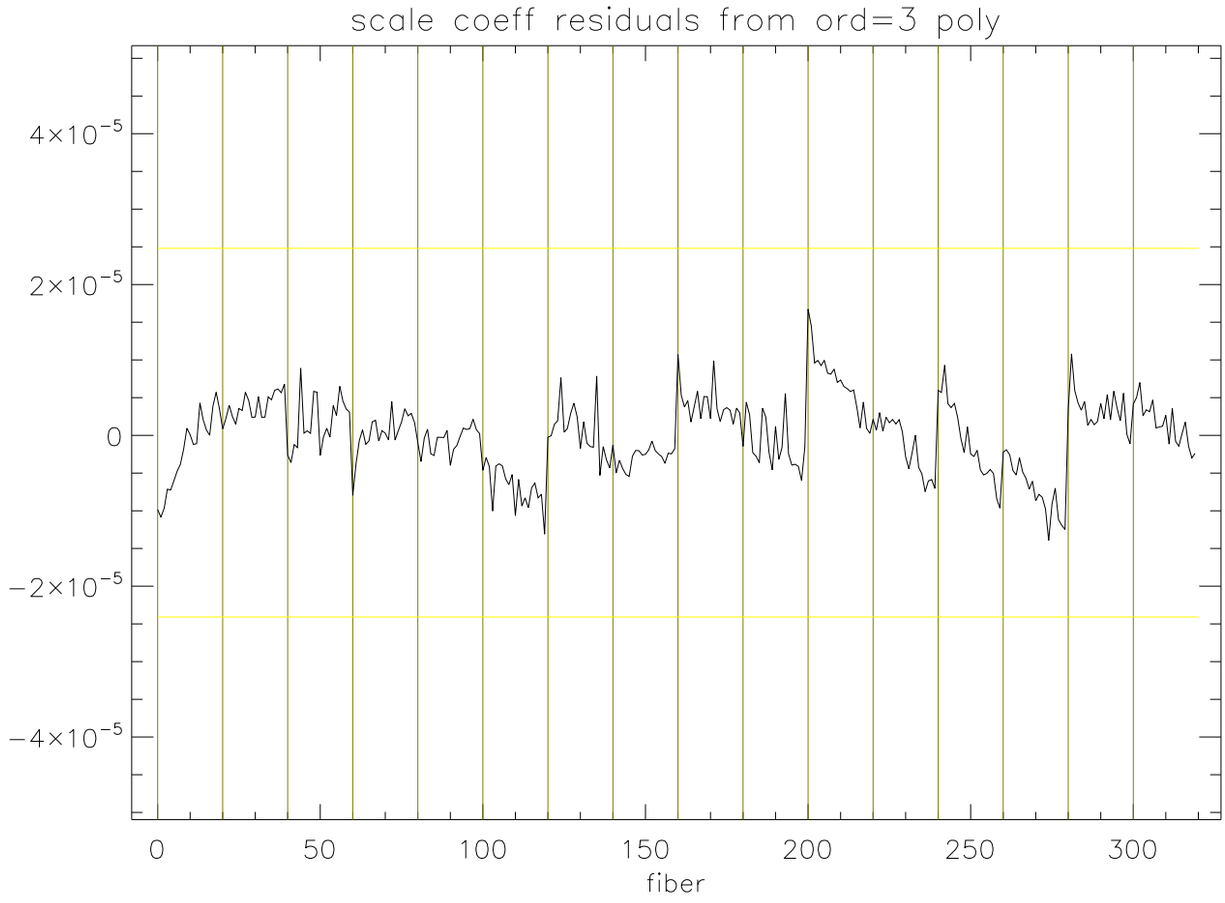

offset coeff residuals from ord=3 poly
1.5×10^-4
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

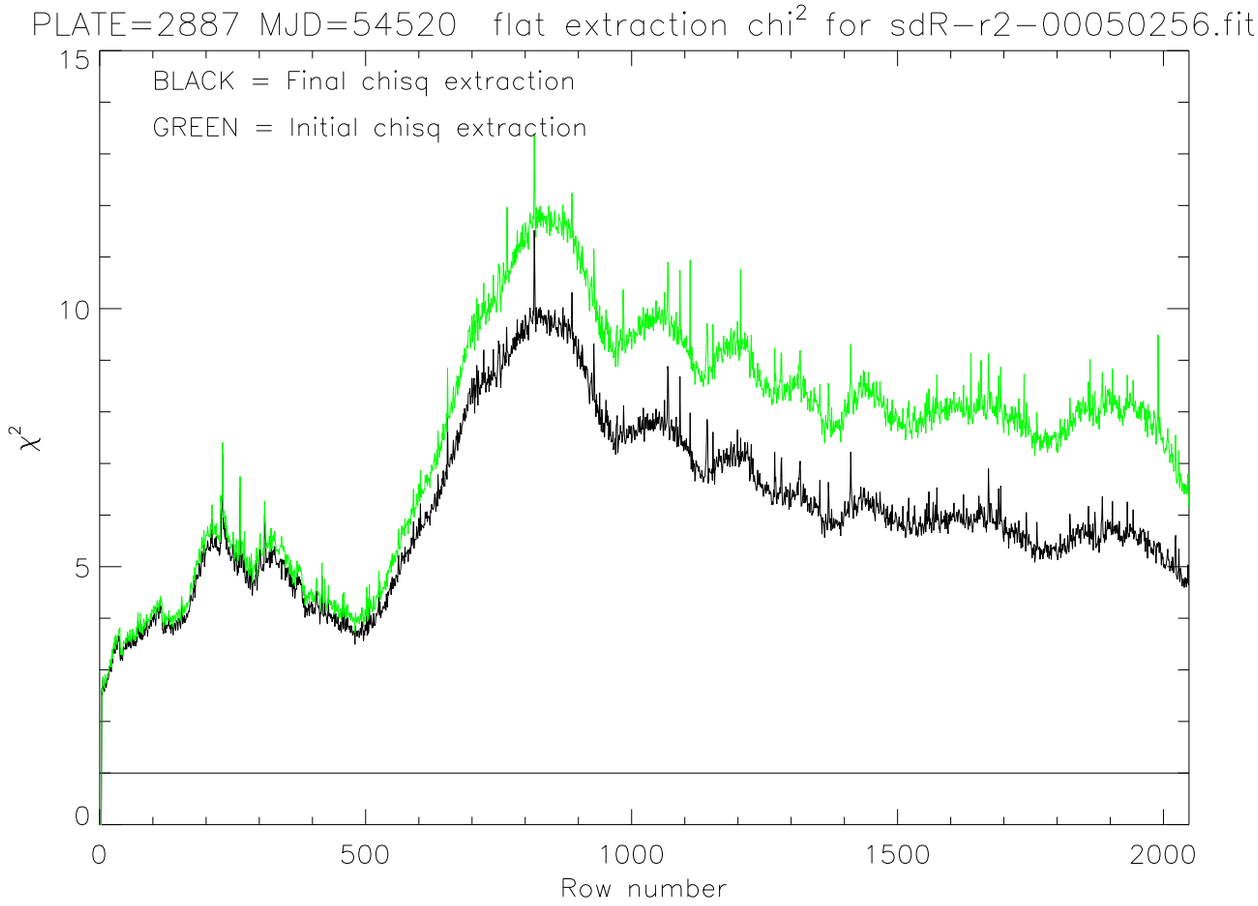

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

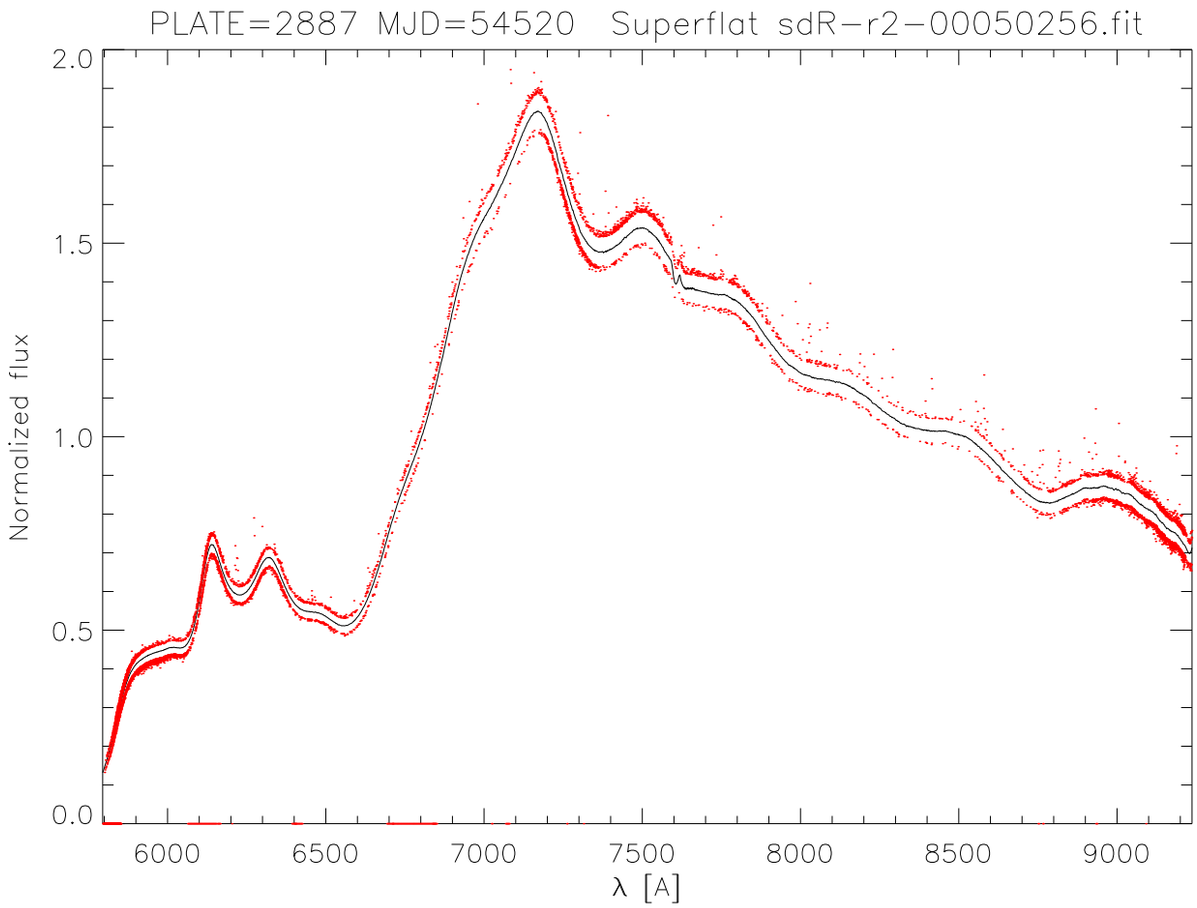

offset coeff residuals from ord=3 poly
1.5×10^-4
1.0×10^-4
5.0×10^-5
0
−5.0×10^-5
−1.0×10^-4
−1.5×10^-4
0
50
100
150
200
250
300
fiber

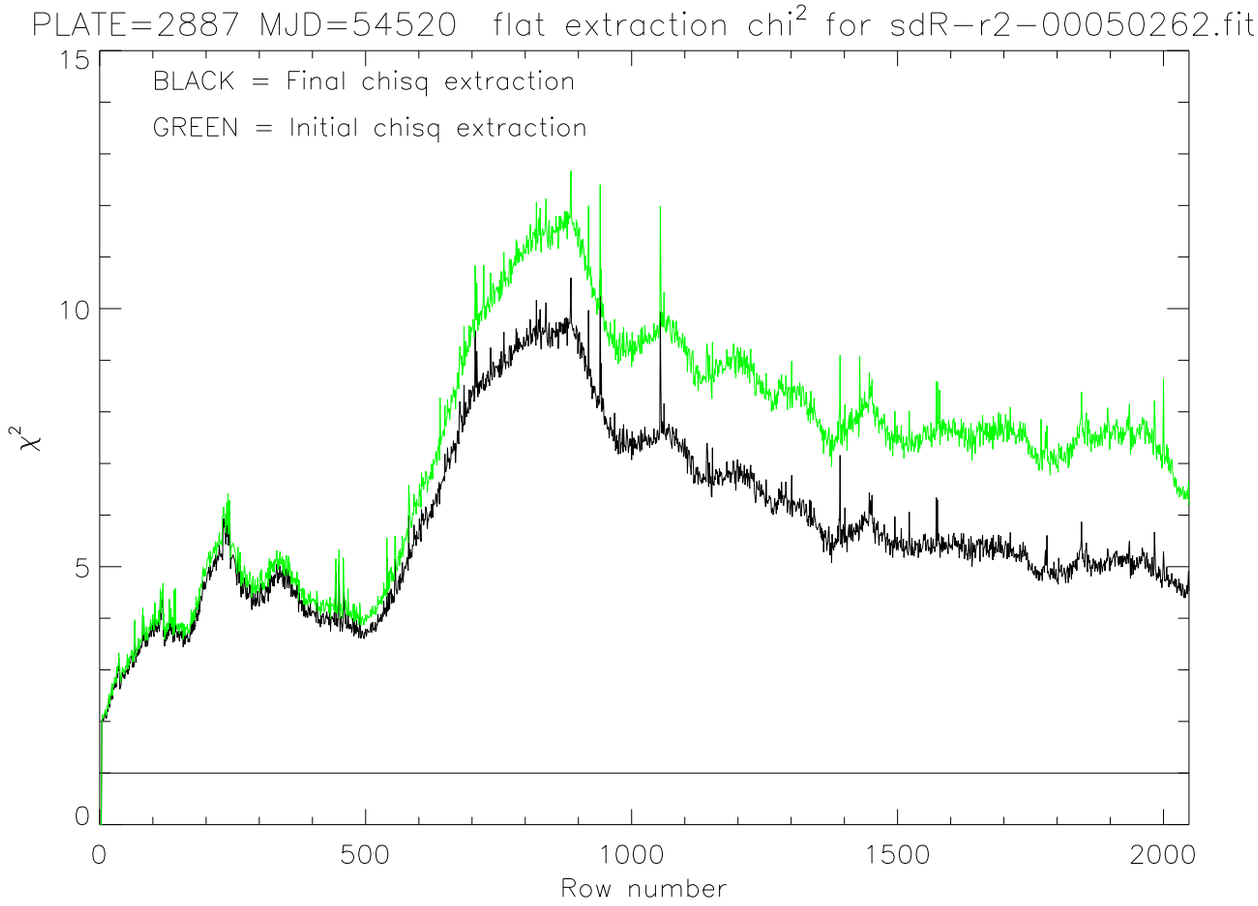

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

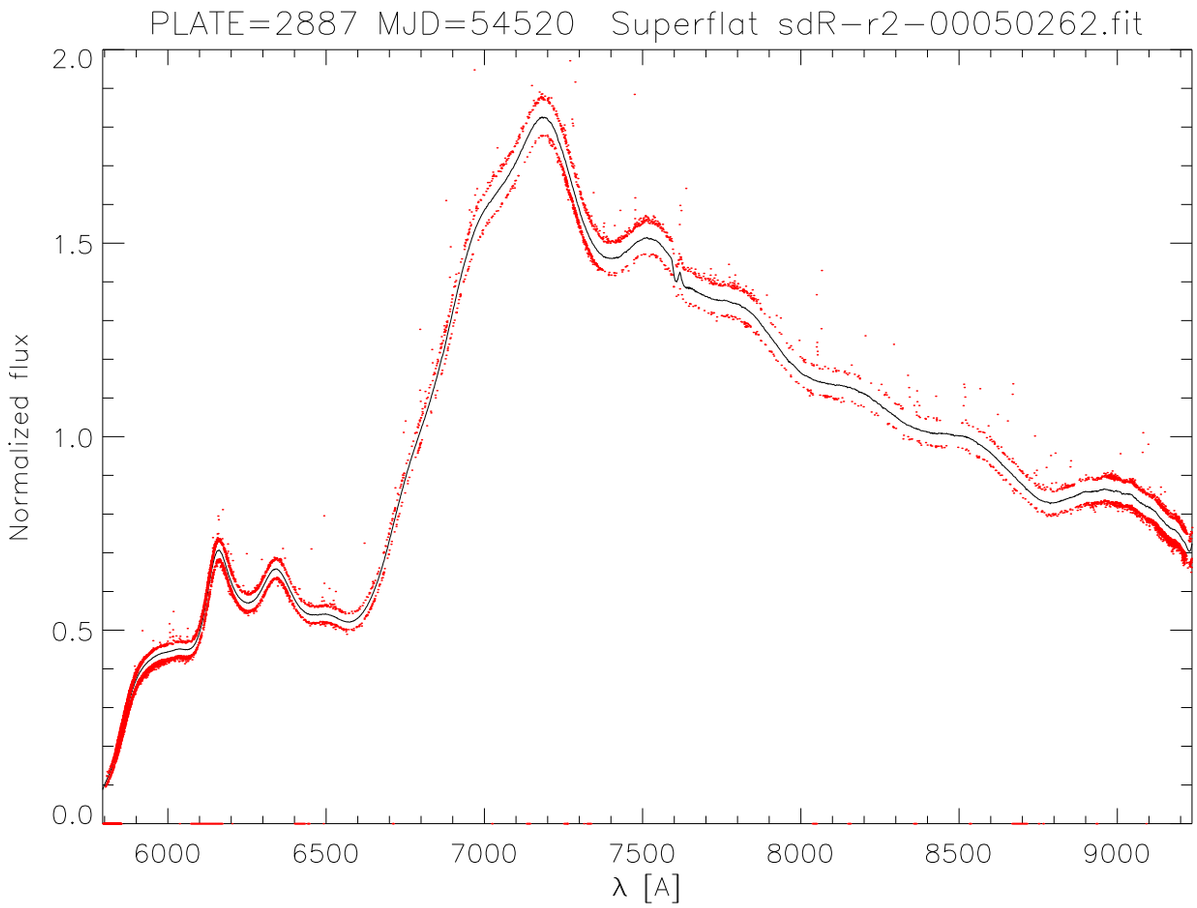

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

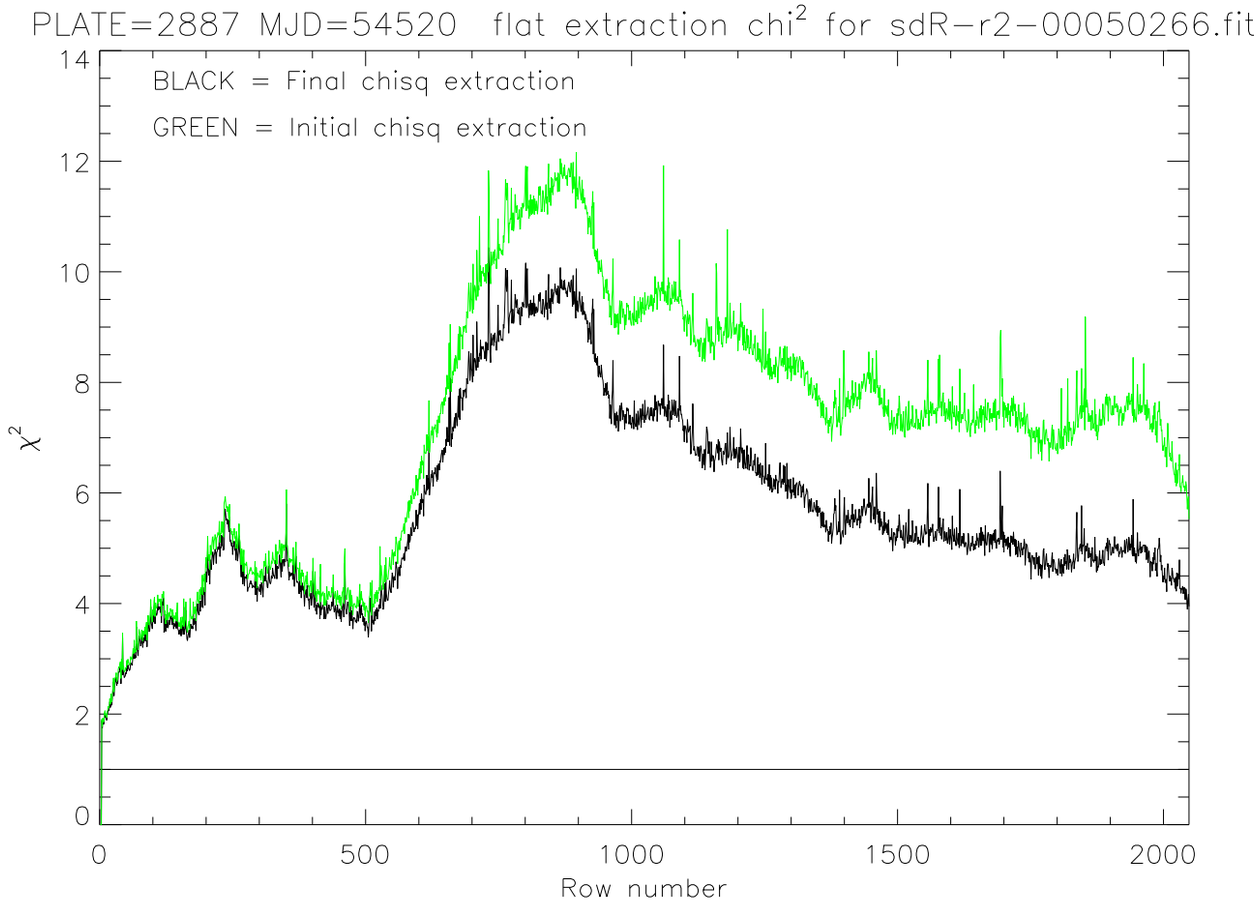

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

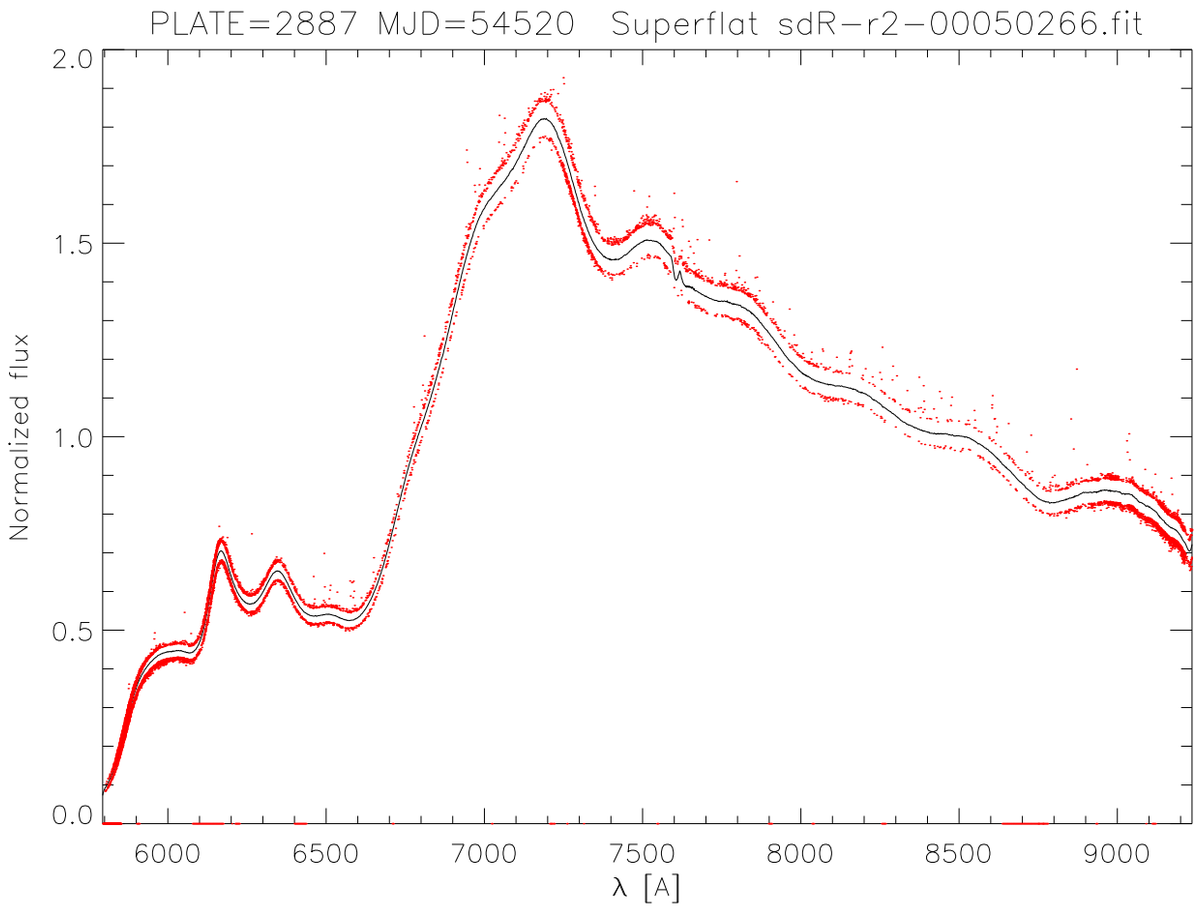

PLATE=2887 MJD=54520 flat extraction chi² for sdR-r2-00050256.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ²
Row number
0
5
10
15
0
500
1000
1500
2000

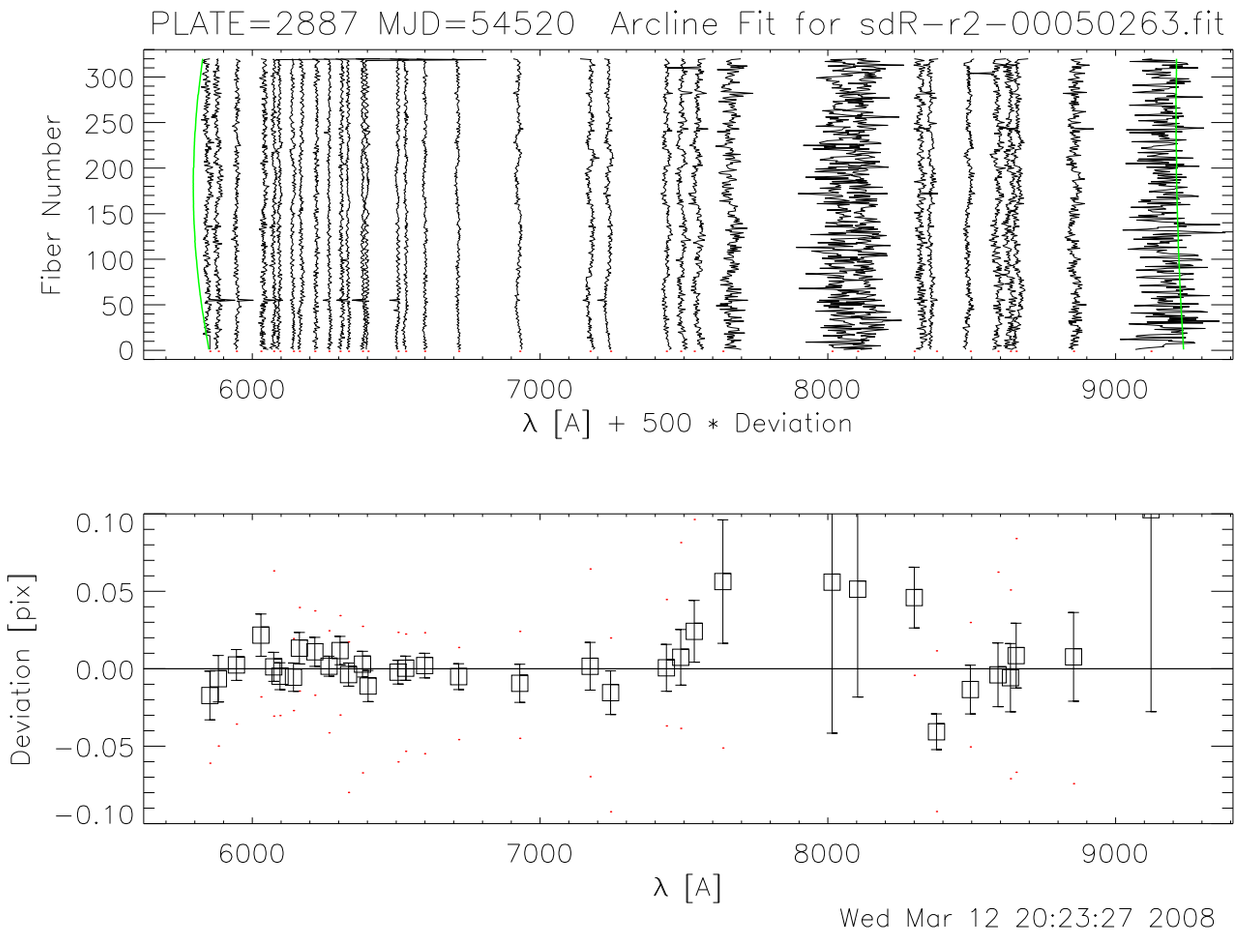

PLATE=2887 MJD=54520 Superflat sdR-r2-00050256.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

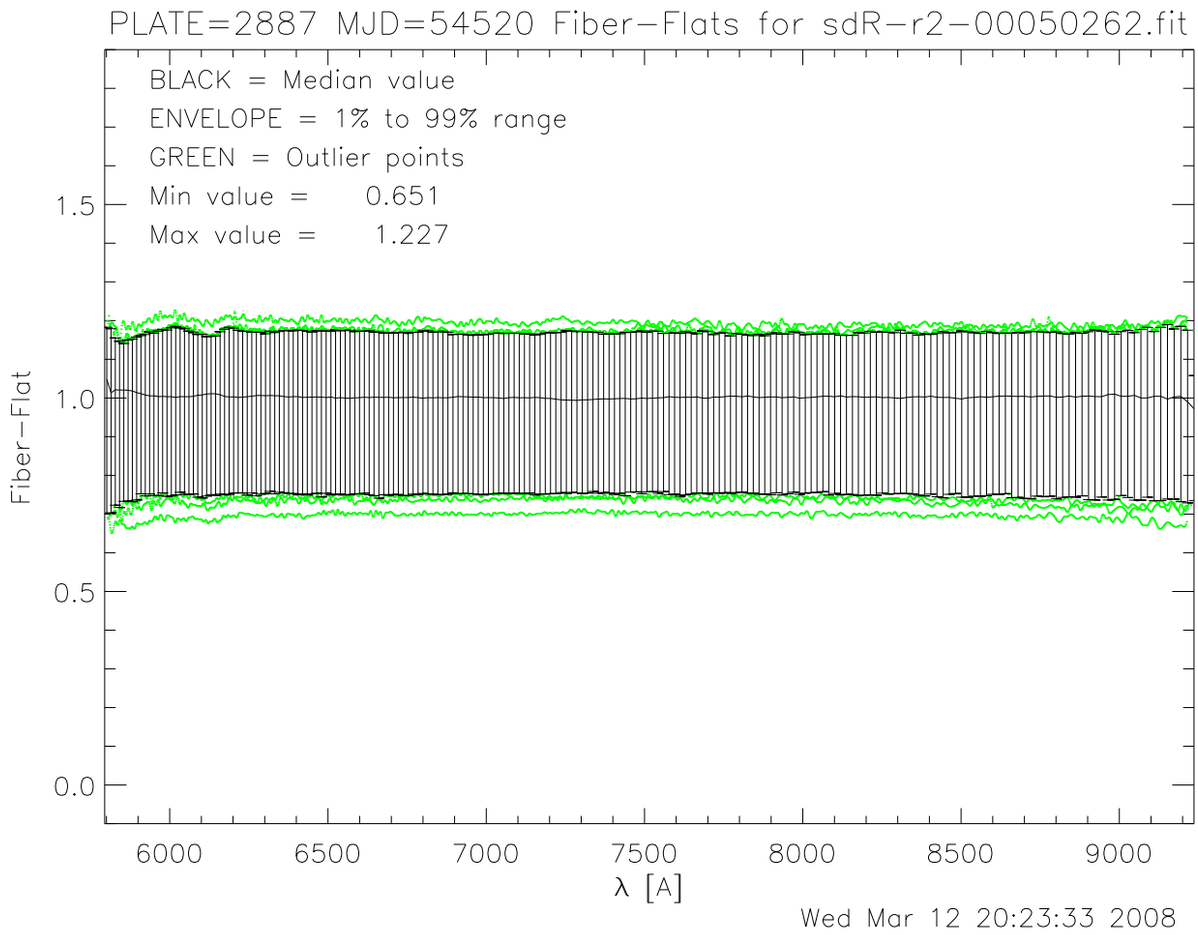

PLATE=2887 MJD=54520 flat extraction chi² for sdR-r2-00050262.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ²
Row number
0
5
10
15
0
500
1000
1500
2000

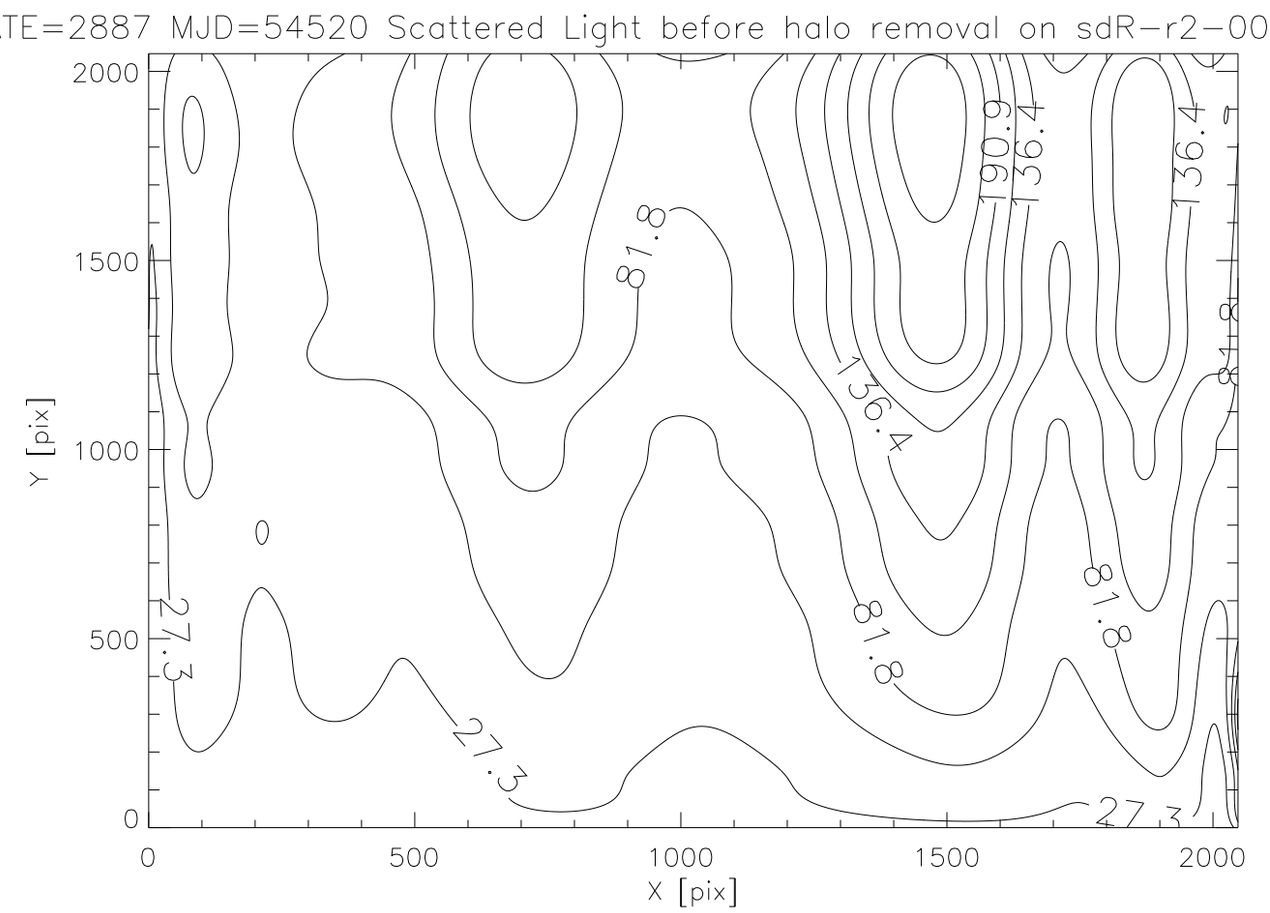

PLATE=2887 MJD=54520 Superflat sdR-r2-00050262.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

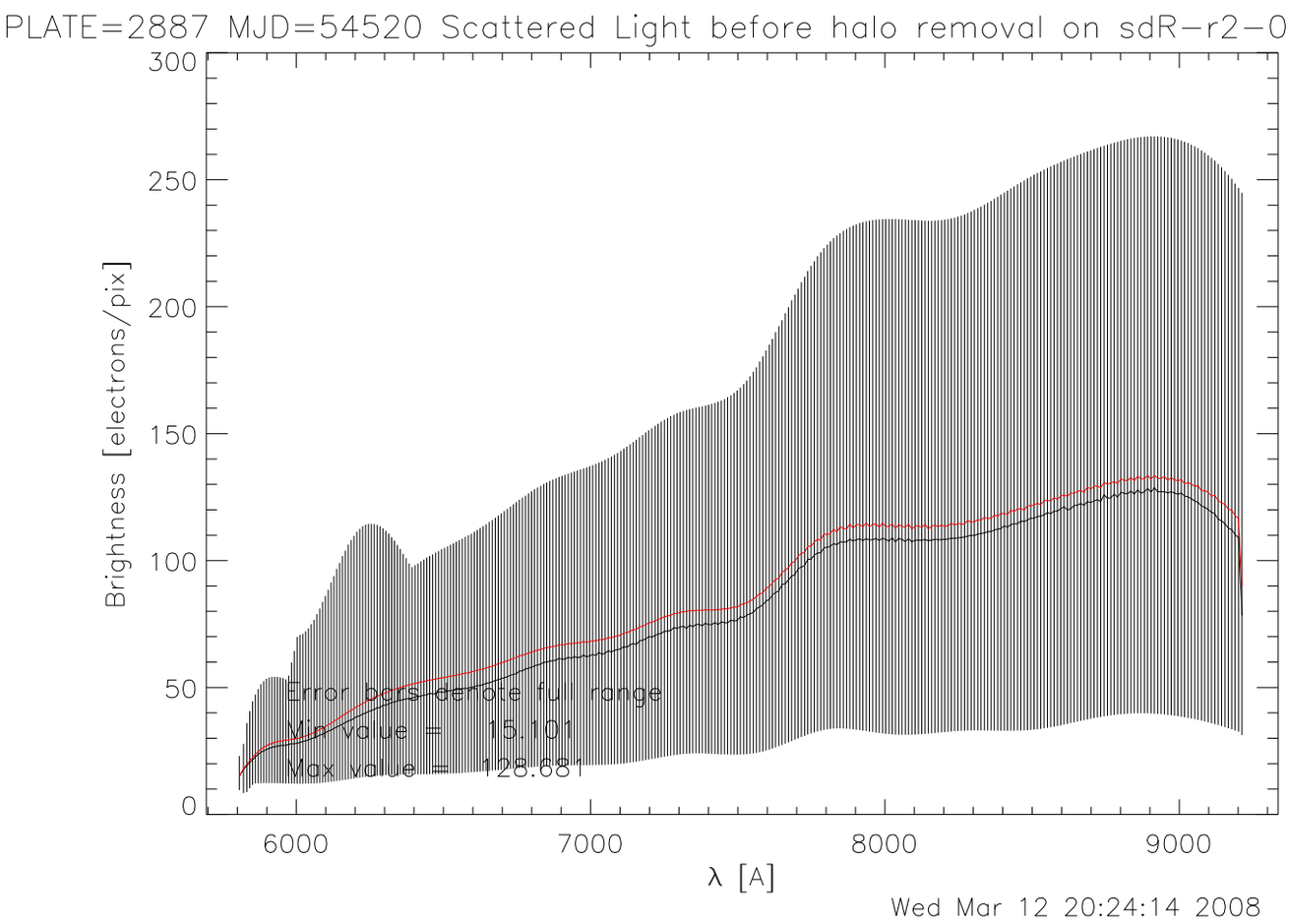

PLATE=2887 MJD=54520 flat extraction chi² for sdR-r2-00050266.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ²
Row number
0
2
4
6
8
10
12
14
0
500
1000
1500
2000

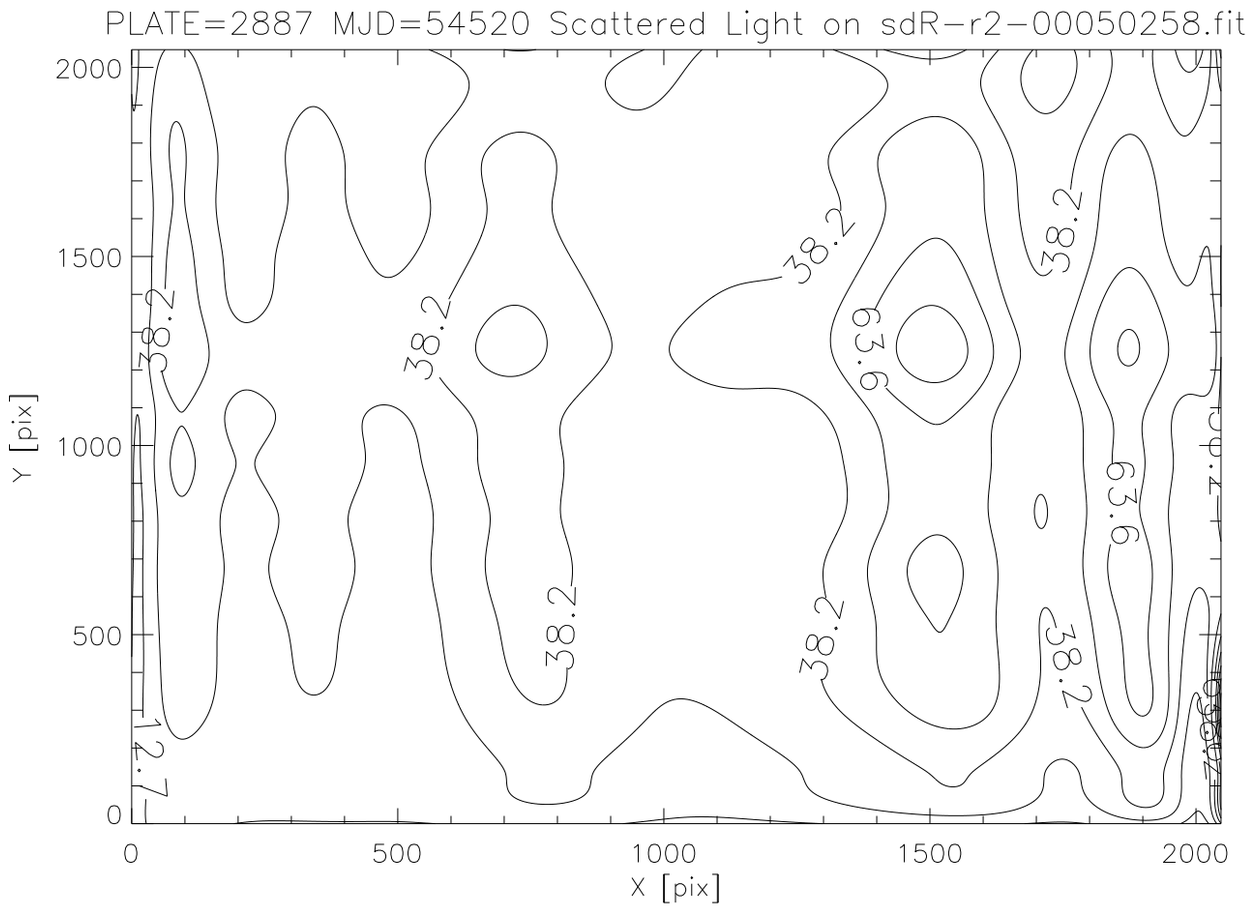

PLATE=2887 MJD=54520 Superflat sdR-r2-00050266.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000

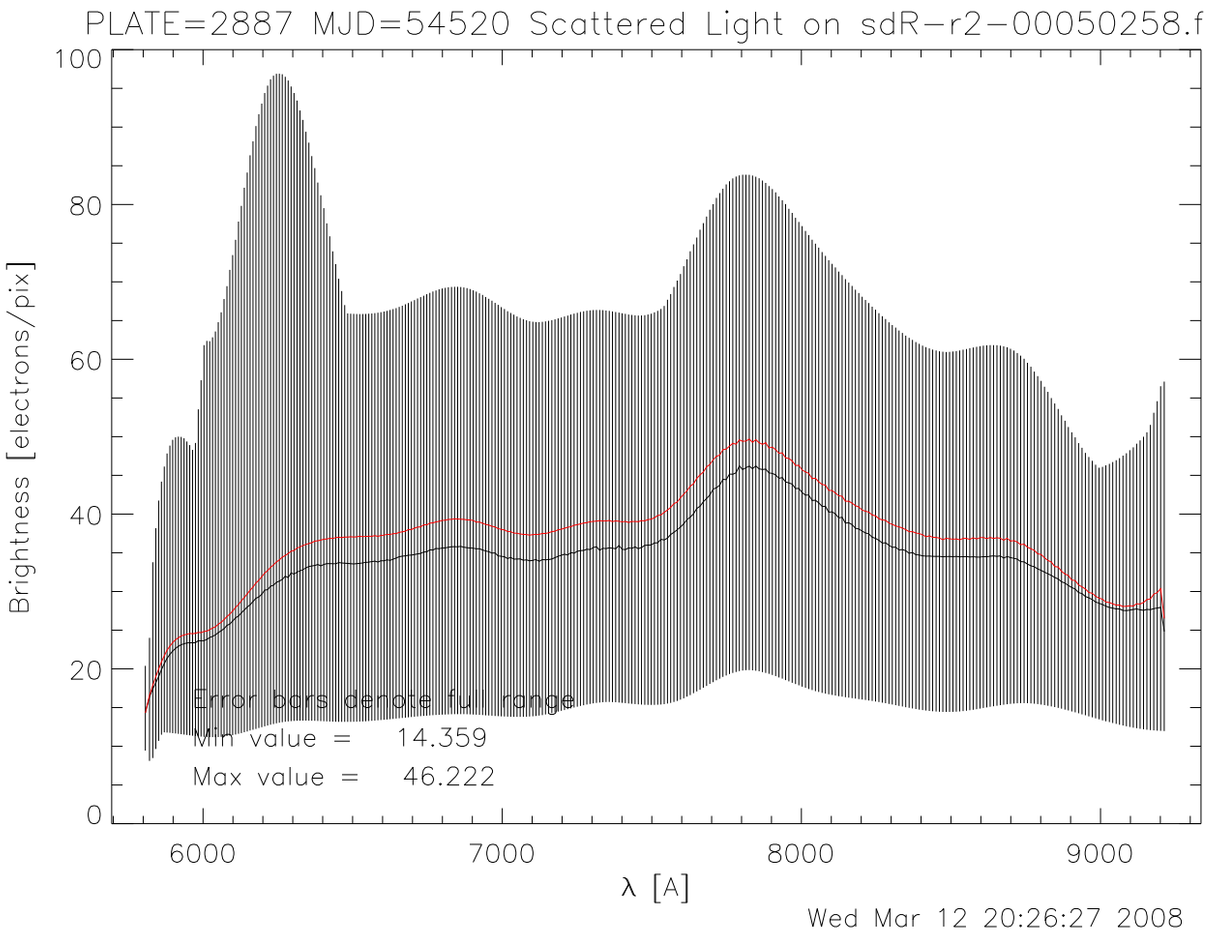

PLATE=2887 MJD=54520 Arcline Fit for sdR-r2-00050263.fit
Fiber Number
300
250
200
150
100
50
0
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Wed Mar 12 20:23:27 2008

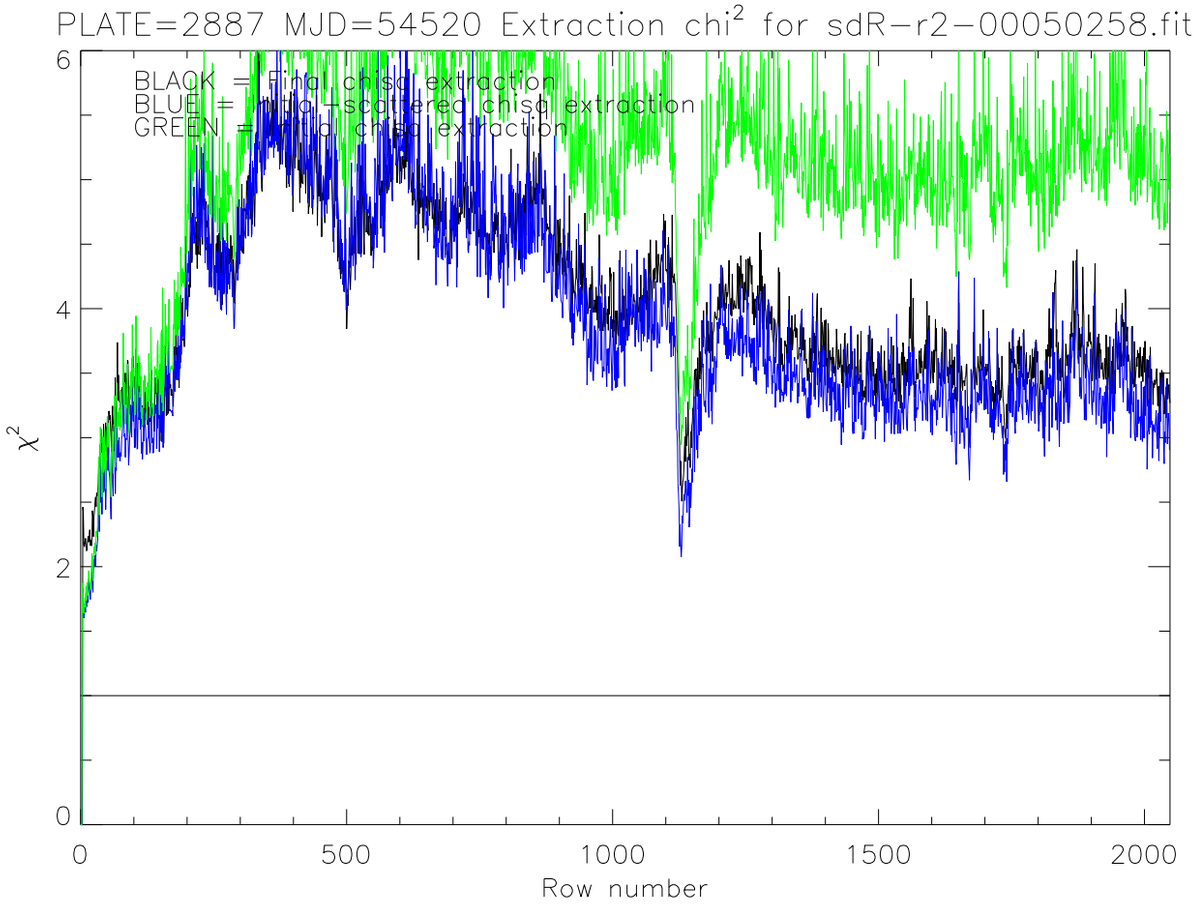

PLATE=2887 MJD=54520 Fiber-Flats for sdR-r2-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.651
Max value = 1.227
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 20:23:33 2008

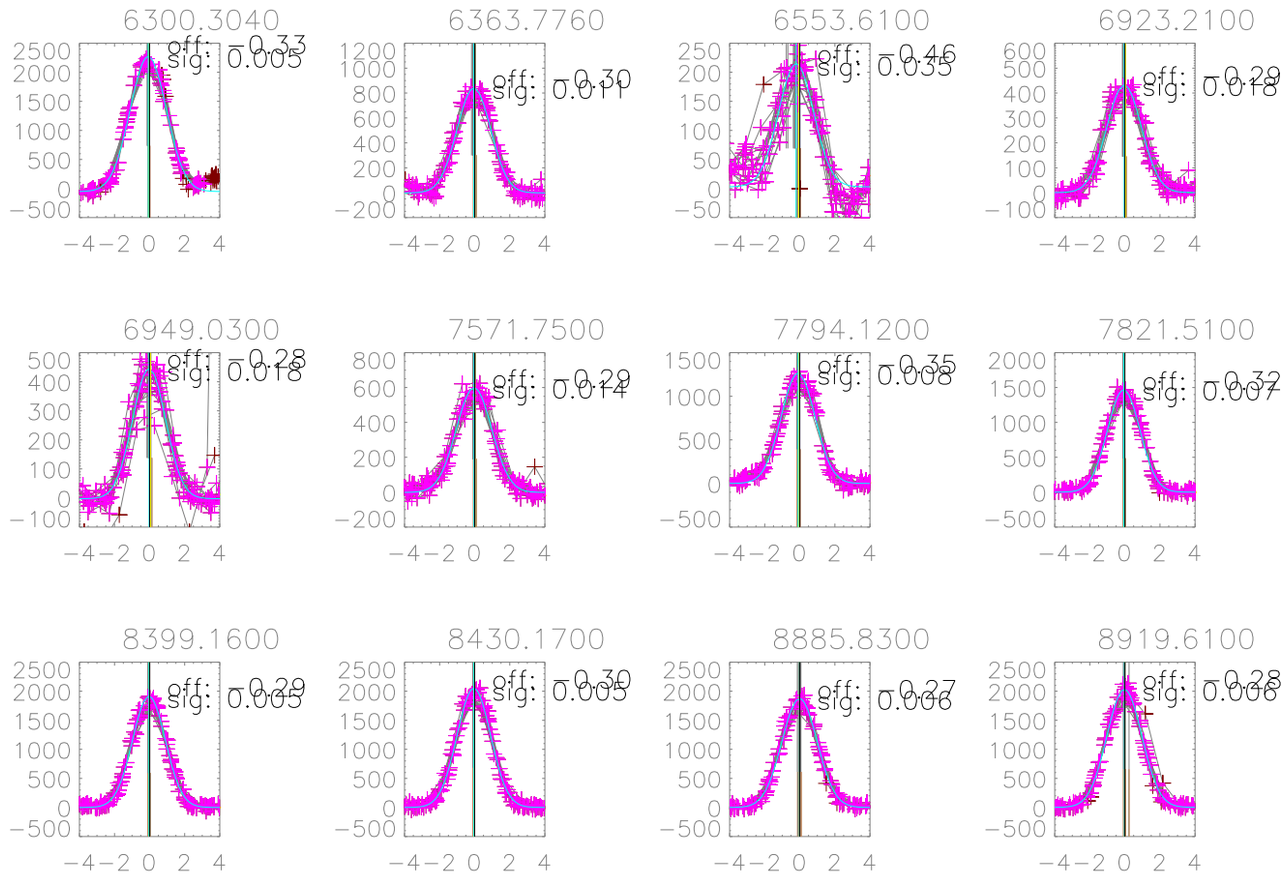

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r2-00050258.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0
27.3
81.8
136.4
190.9

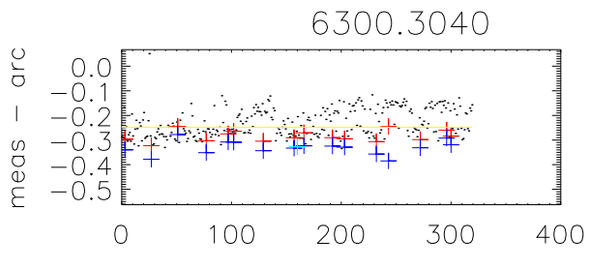

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r2-00050258.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 15.101
Max value = 128.681
Wed Mar 12 20:24:14 2008

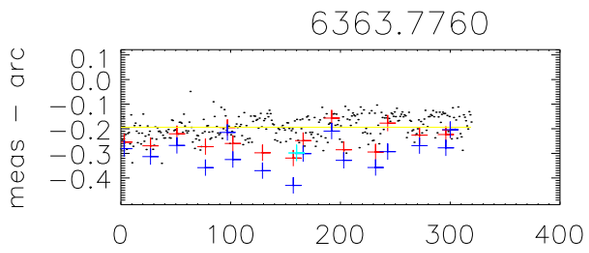

PLATE=2887 MJD=54520 Scattered Light on sdR-r2-00050258.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
38.2
63.6
12.7

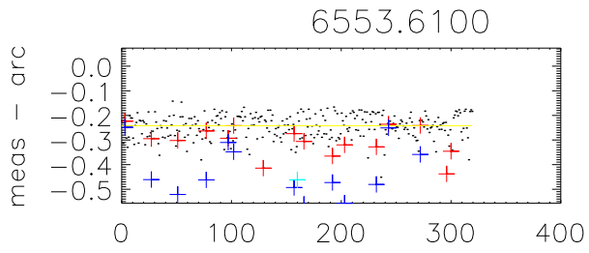

PLATE=2887 MJD=54520 Scattered Light on sdR-r2-00050258.fit
Brightness [electrons/pix]
100
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 14.359
Max value = 46.222
Wed Mar 12 20:26:27 2008

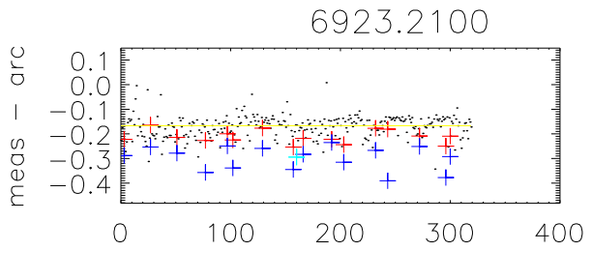

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-r2-00050258.fit
BLACK = final chisq extraction
BLUE = initial scattered chisq extraction
GREEN = initial chisq extraction
χ^2
0
2
4
6
0
500
1000
1500
2000
Row number

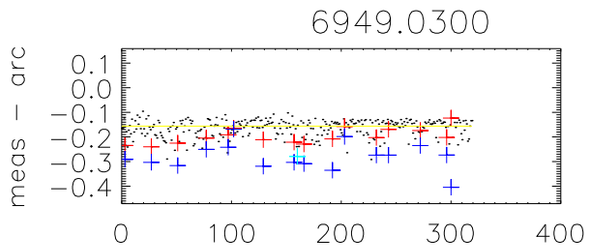

6300.3040
off: −0.33
sig: 0.005
6363.7760
off: −0.30
sig: 0.011
6553.6100
off: −0.46
sig: 0.035
6923.2100
off: −0.29
sig: 0.018
6949.0300
off: −0.28
sig: 0.018
7571.7500
off: −0.29
sig: 0.014
7794.1200
off: −0.35
sig: 0.008
7821.5100
off: −0.32
sig: 0.007
8399.1600
off: −0.29
sig: 0.005
8430.1700
off: −0.30
sig: 0.005
8885.8300
off: −0.27
sig: 0.006
8919.6100
off: −0.28
sig: 0.006

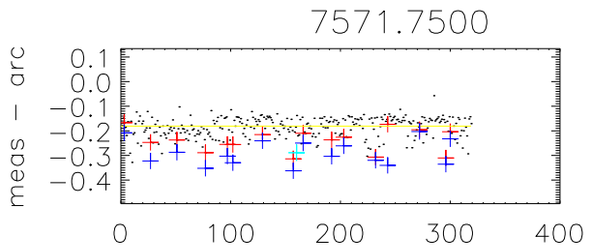

6300.3040
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

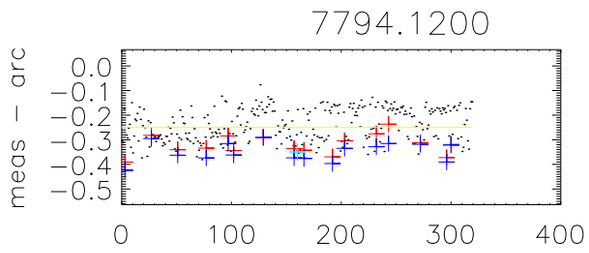

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

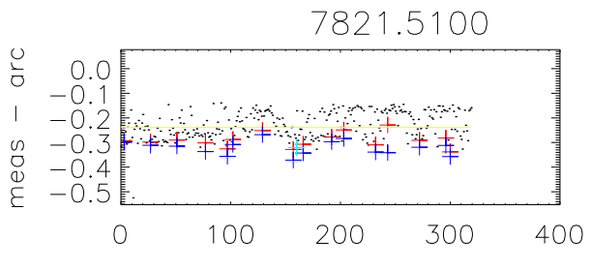

6553.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

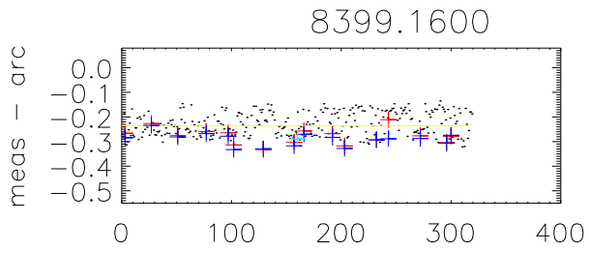

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

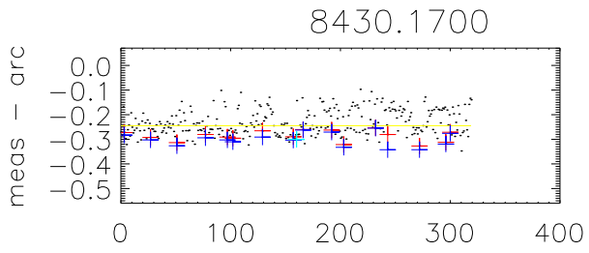

6949.0300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

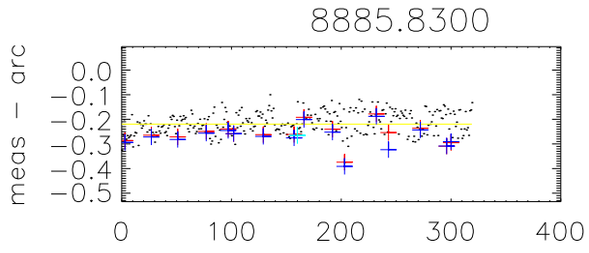

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

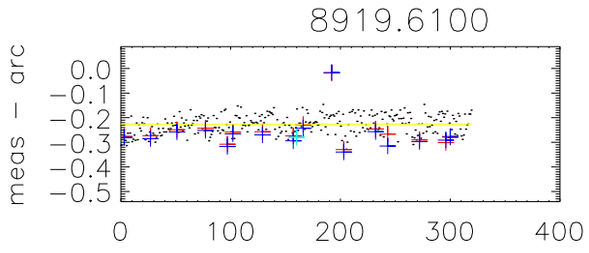

7794.1200
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

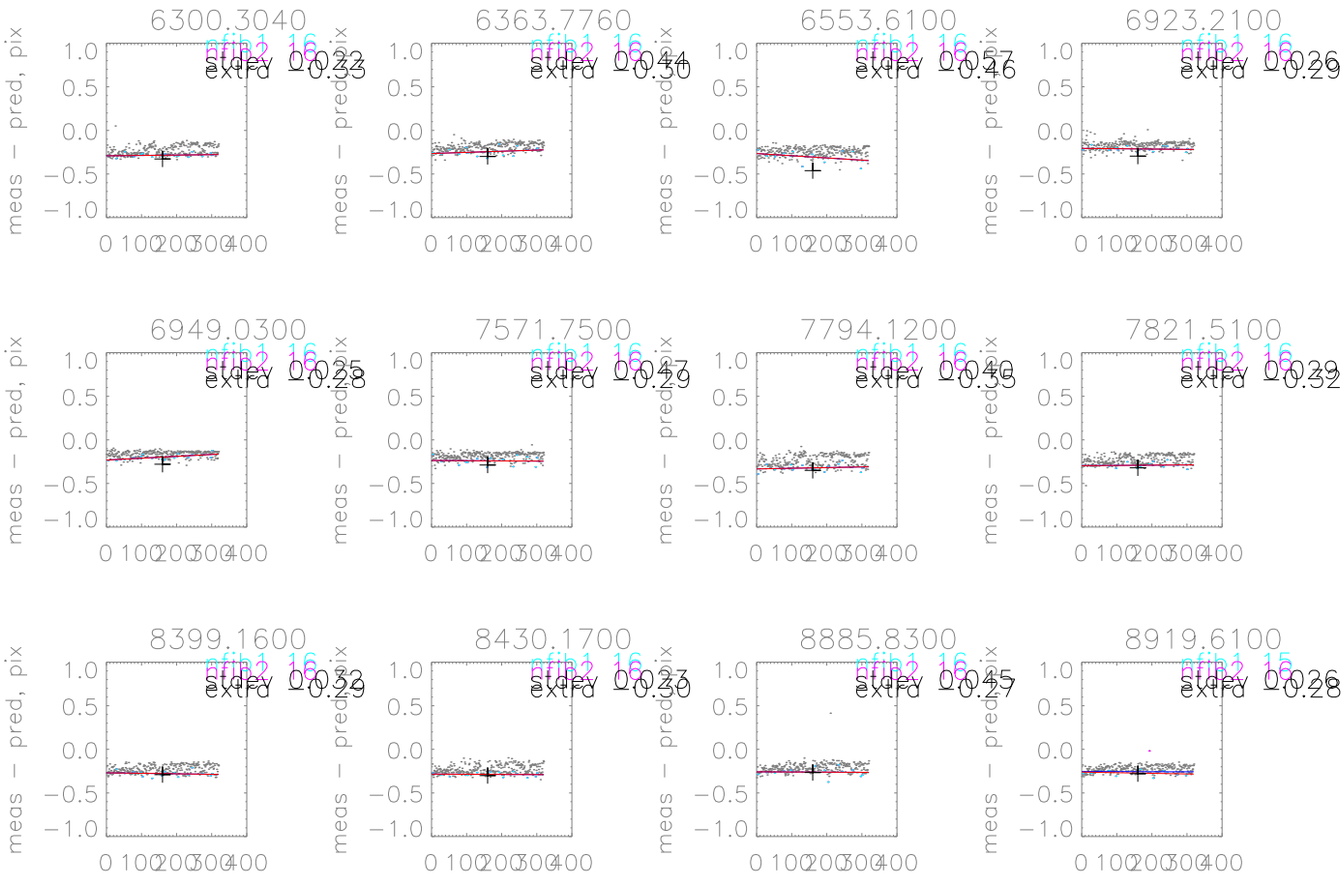

7821.5100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

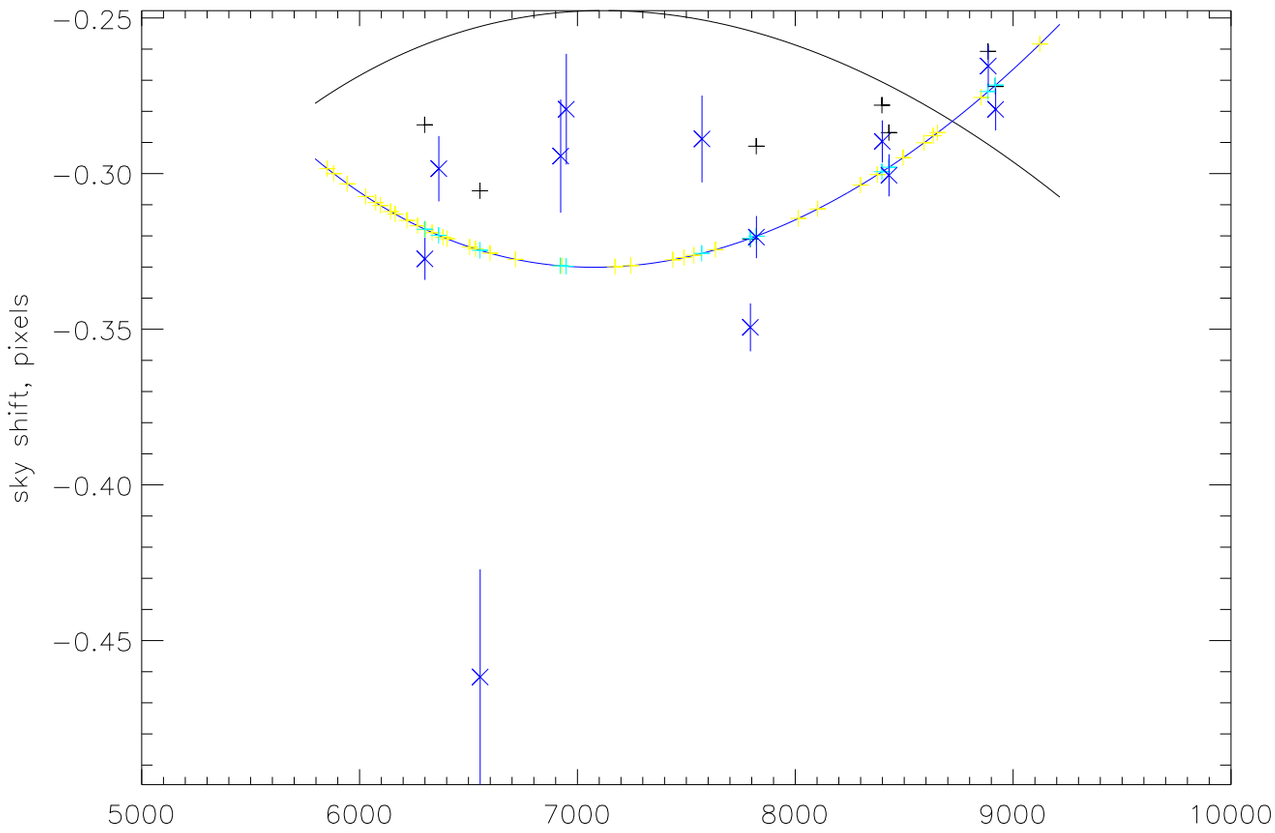

8399.1600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

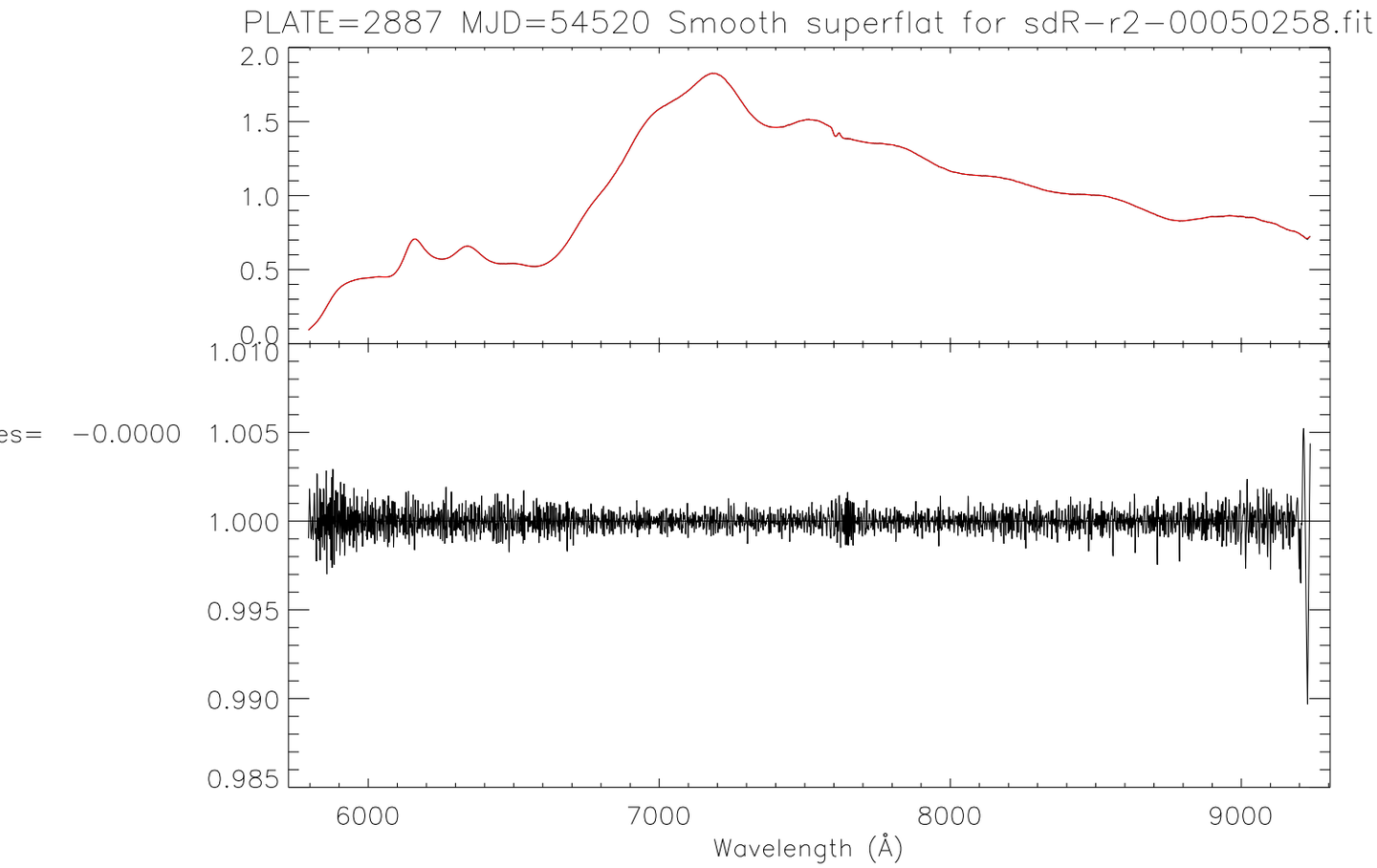

8430.1700
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

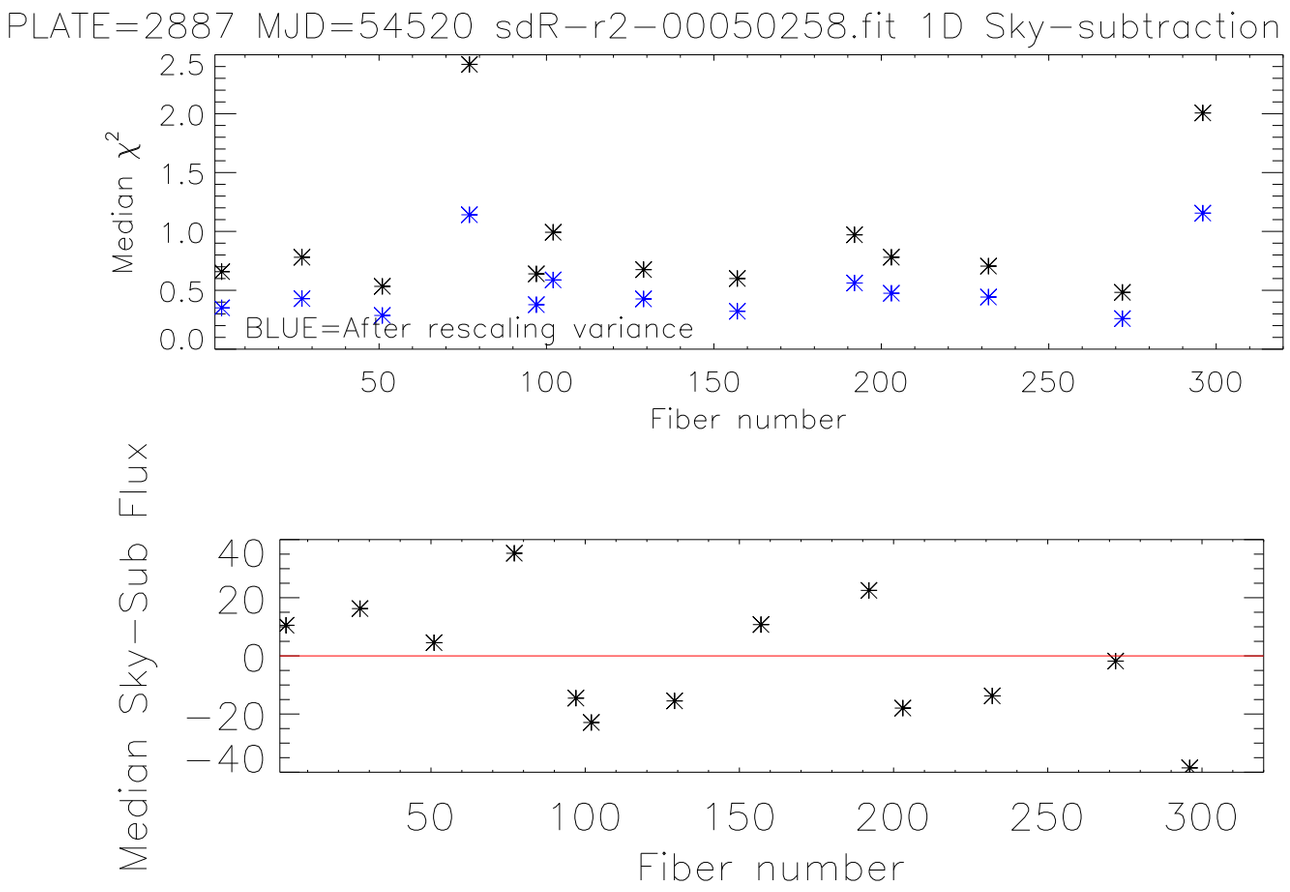

8885.8300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

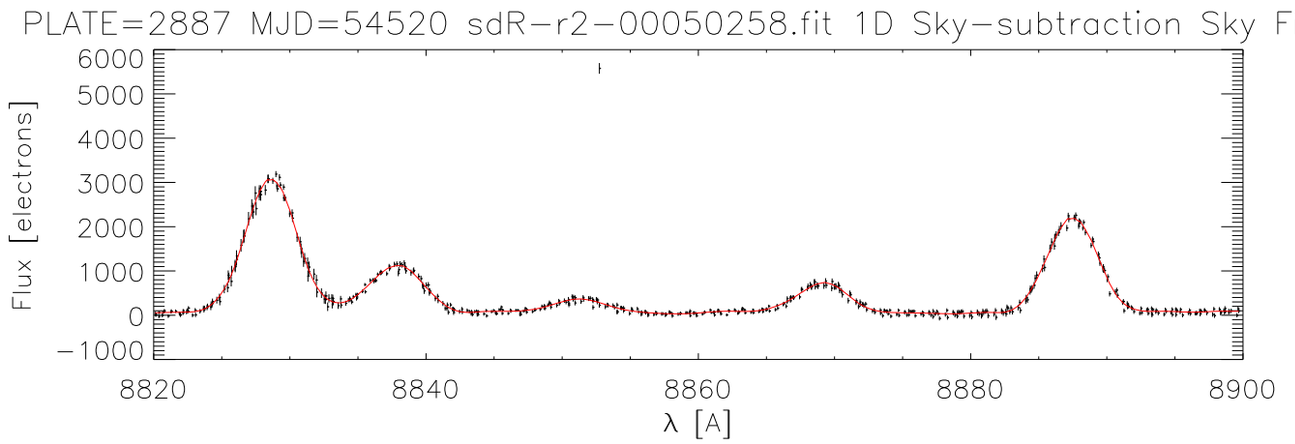

8919.6100
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

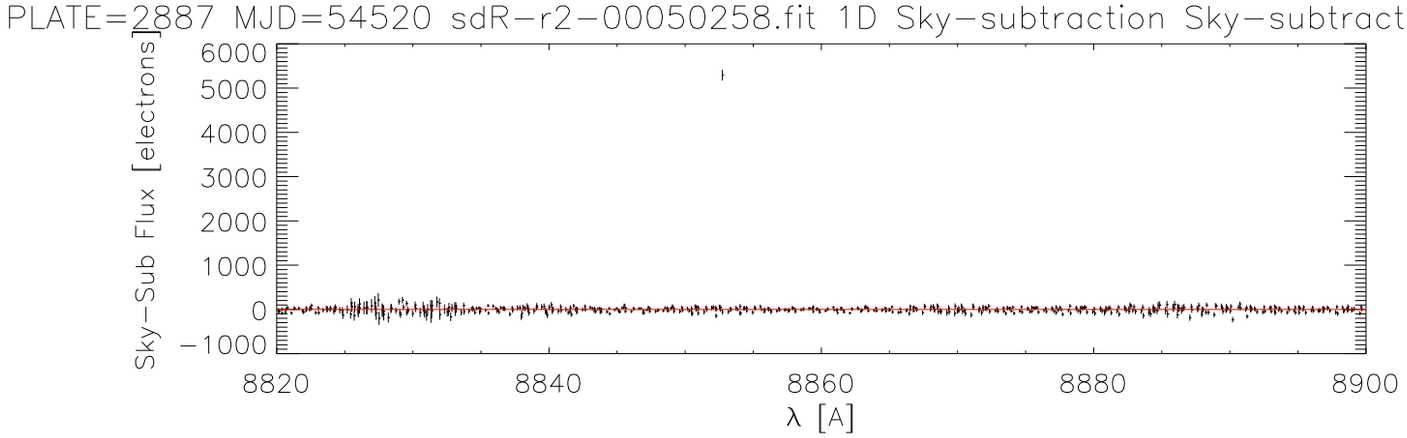

6300.3040
stdev 0.022
extra −0.23
6363.7760
stdev 0.044
extra −0.30
6553.6100
stdev 0.046
extra −0.46
6923.2100
stdev 0.026
extra −0.29
6949.0300
stdev 0.025
extra −0.28
7571.7500
stdev 0.047
extra −0.29
7794.1200
stdev 0.040
extra −0.35
7821.5100
stdev 0.029
extra −0.32
8399.1600
stdev 0.032
extra −0.29
8430.1700
stdev 0.033
extra −0.30
8885.8300
stdev 0.045
extra −0.27
8919.6100
stdev 0.026
extra −0.28
meas − pred, pix

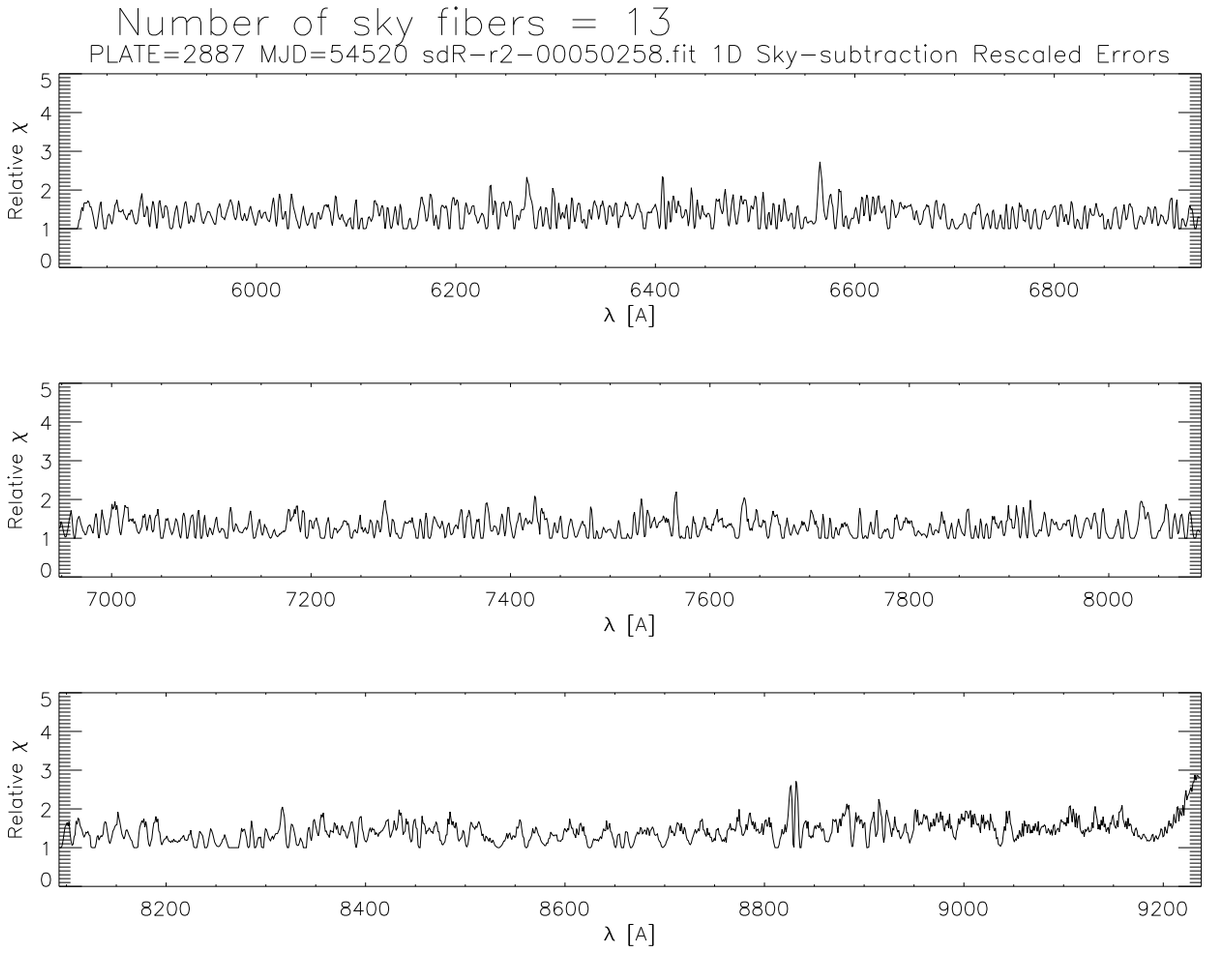

−0.25
−0.30
−0.35
−0.40
−0.45
sky shift, pixels
5000
6000
7000
8000
9000
10000

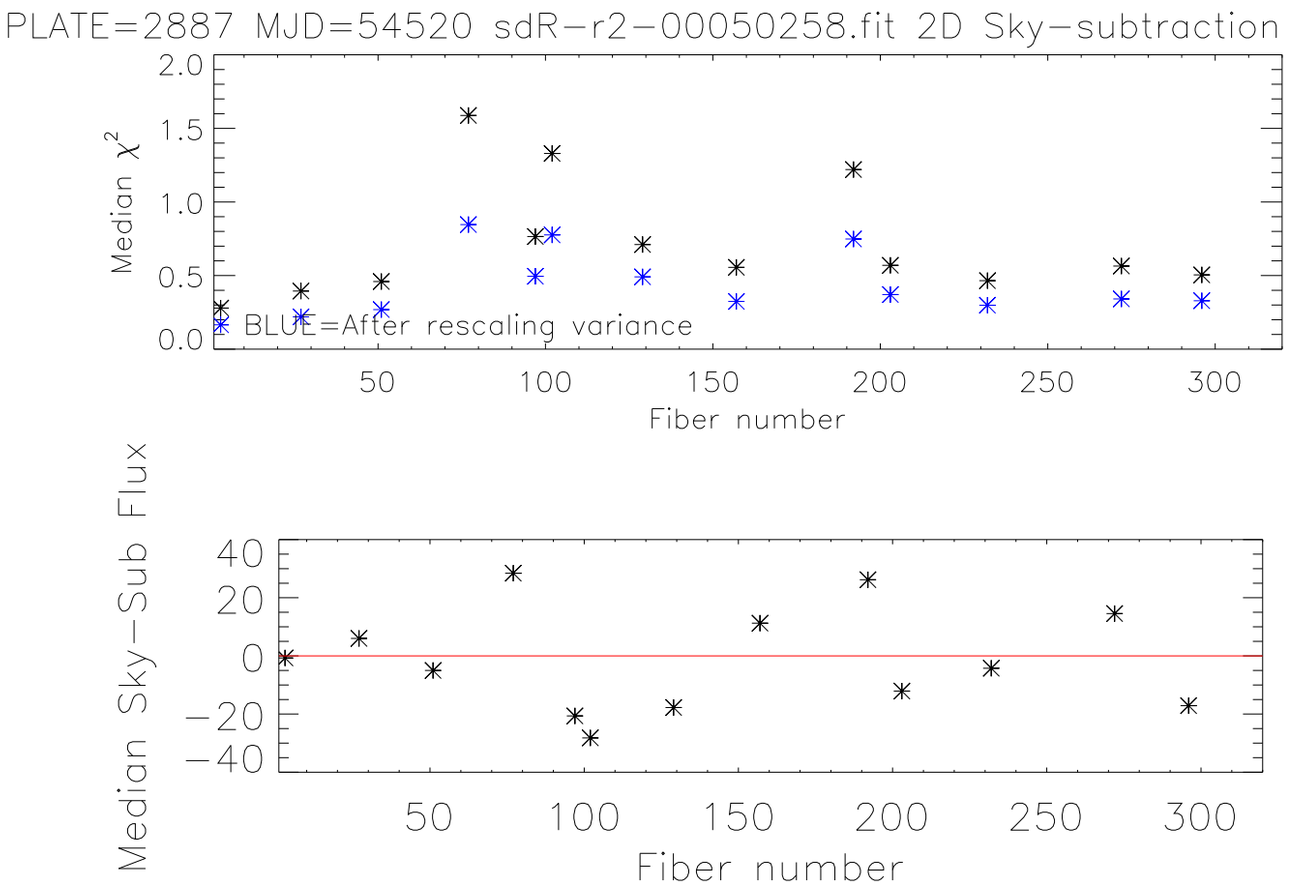

PLATE=2887 MJD=54520 Smooth superflat for sdR-r2-00050258.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)


PLATE=2887 MJD=54520 sdR-r2-00050258.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

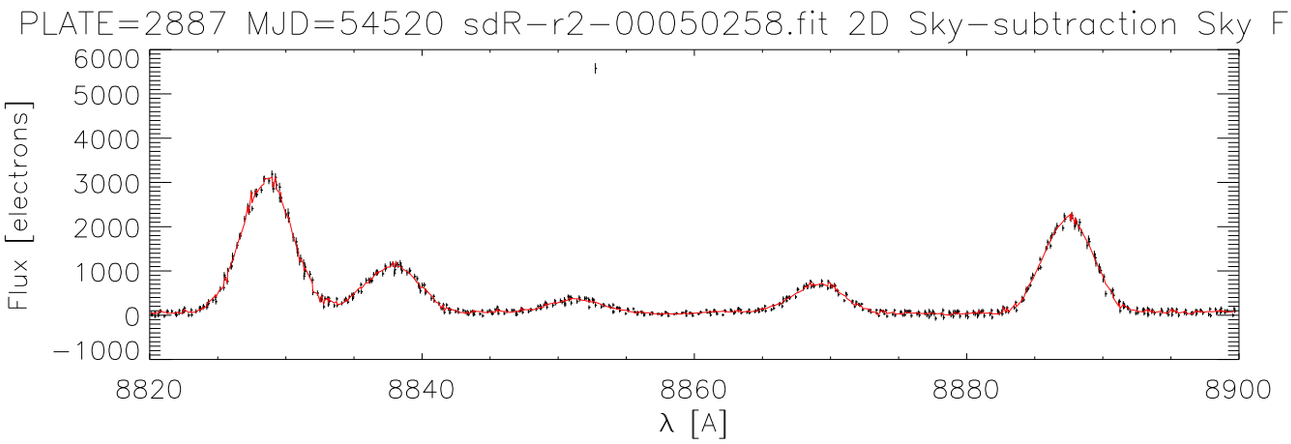

PLATE=2887 MJD=54520 sdR-r2-00050258.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

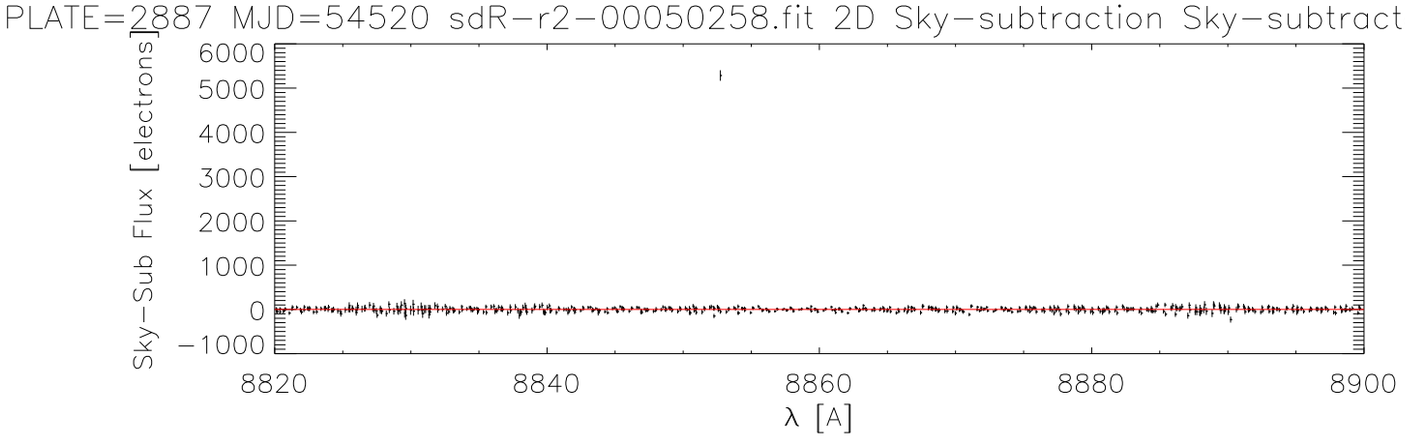

PLATE=2887 MJD=54520 sdR-r2-00050258.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
6000
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

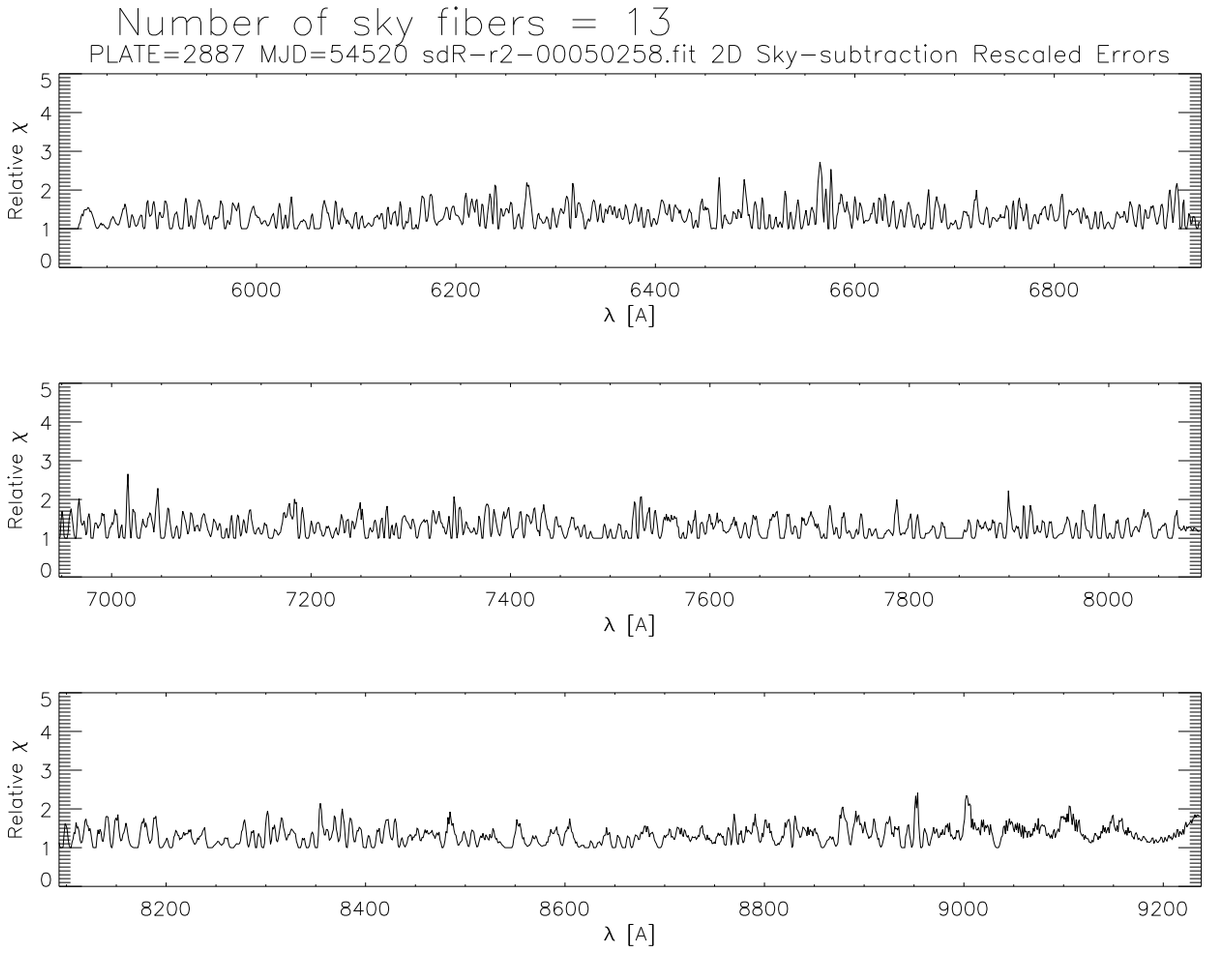

Number of sky fibers = 13
PLATE=2887 MJD=54520 sdR-r2-00050258.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

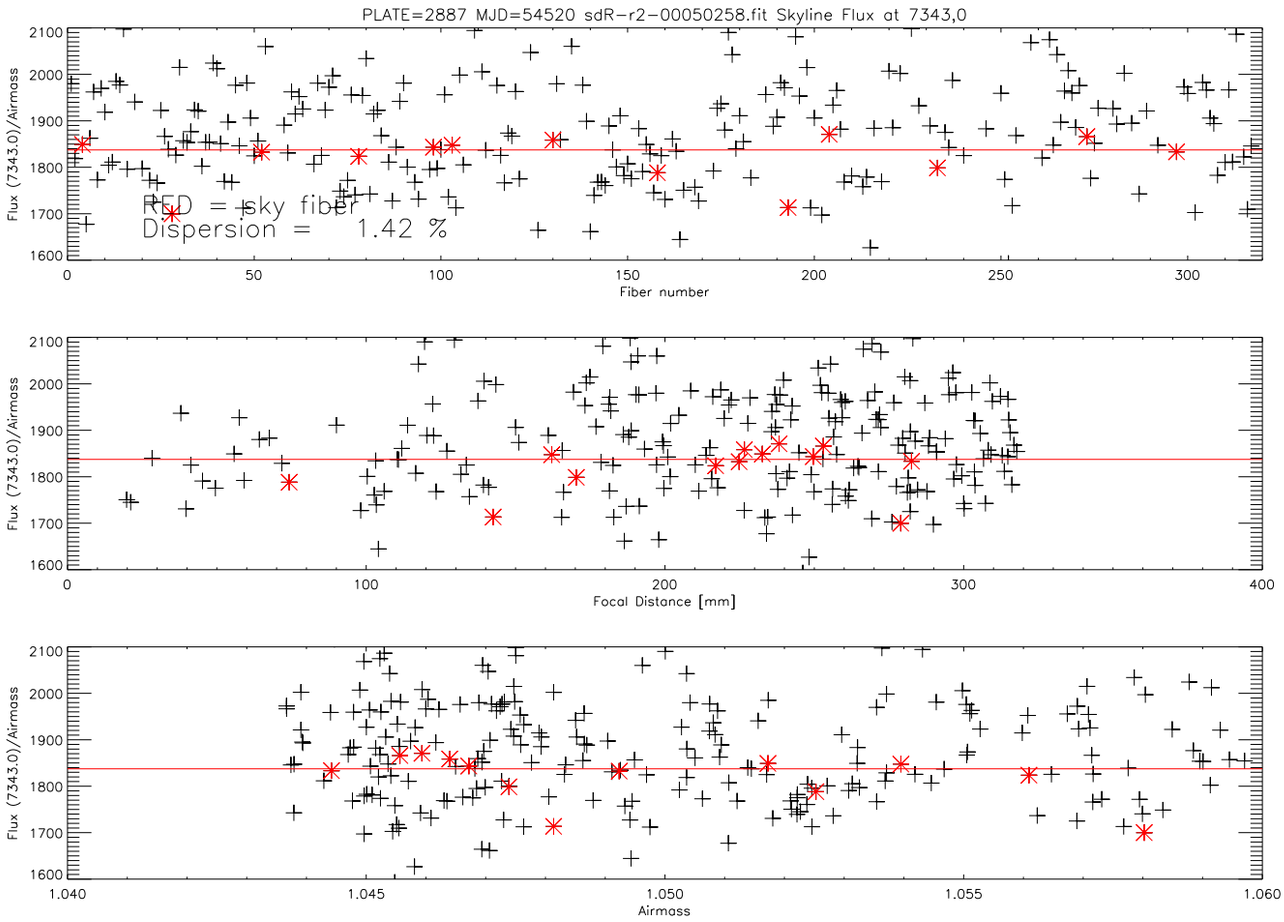

PLATE=2887 MJD=54520 sdR-r2-00050258.fit 2D Sky-subtraction Sky Fibers
Median χ^2
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

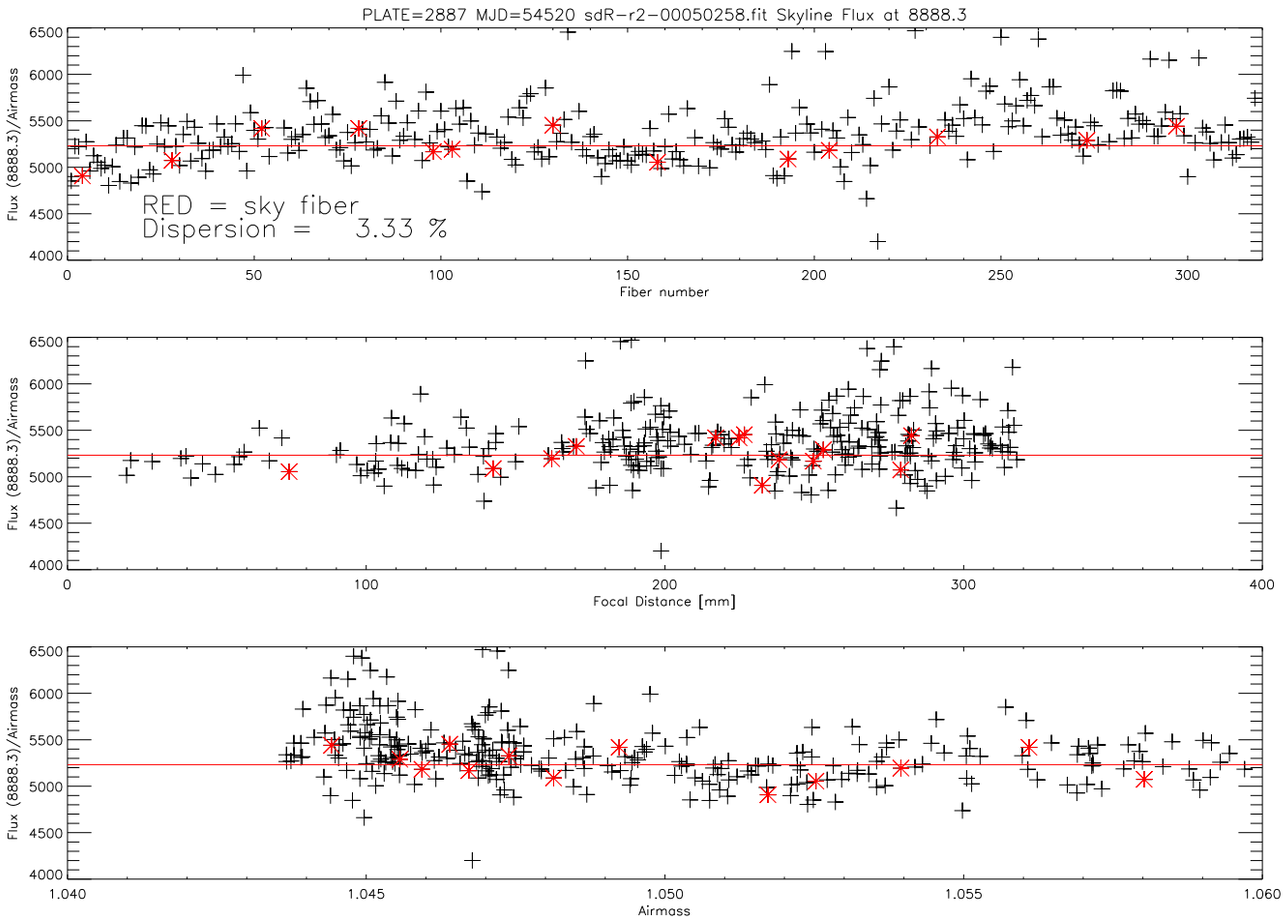
Median Sky-Sub Flux
40
20
0
-20
-40
50
100
150
200
250
300
Fiber number

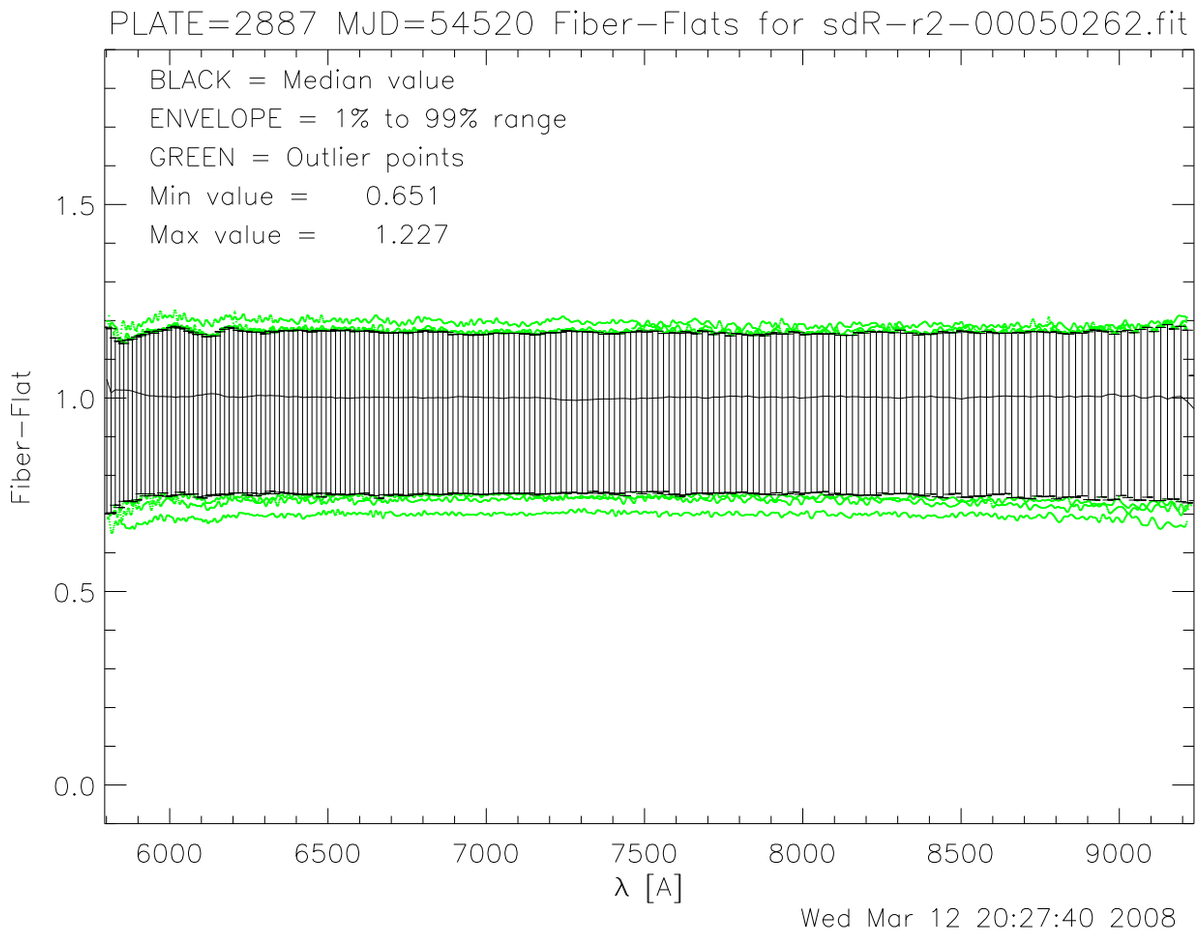

PLATE=2887 MJD=54520 sdR-r2-00050258.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

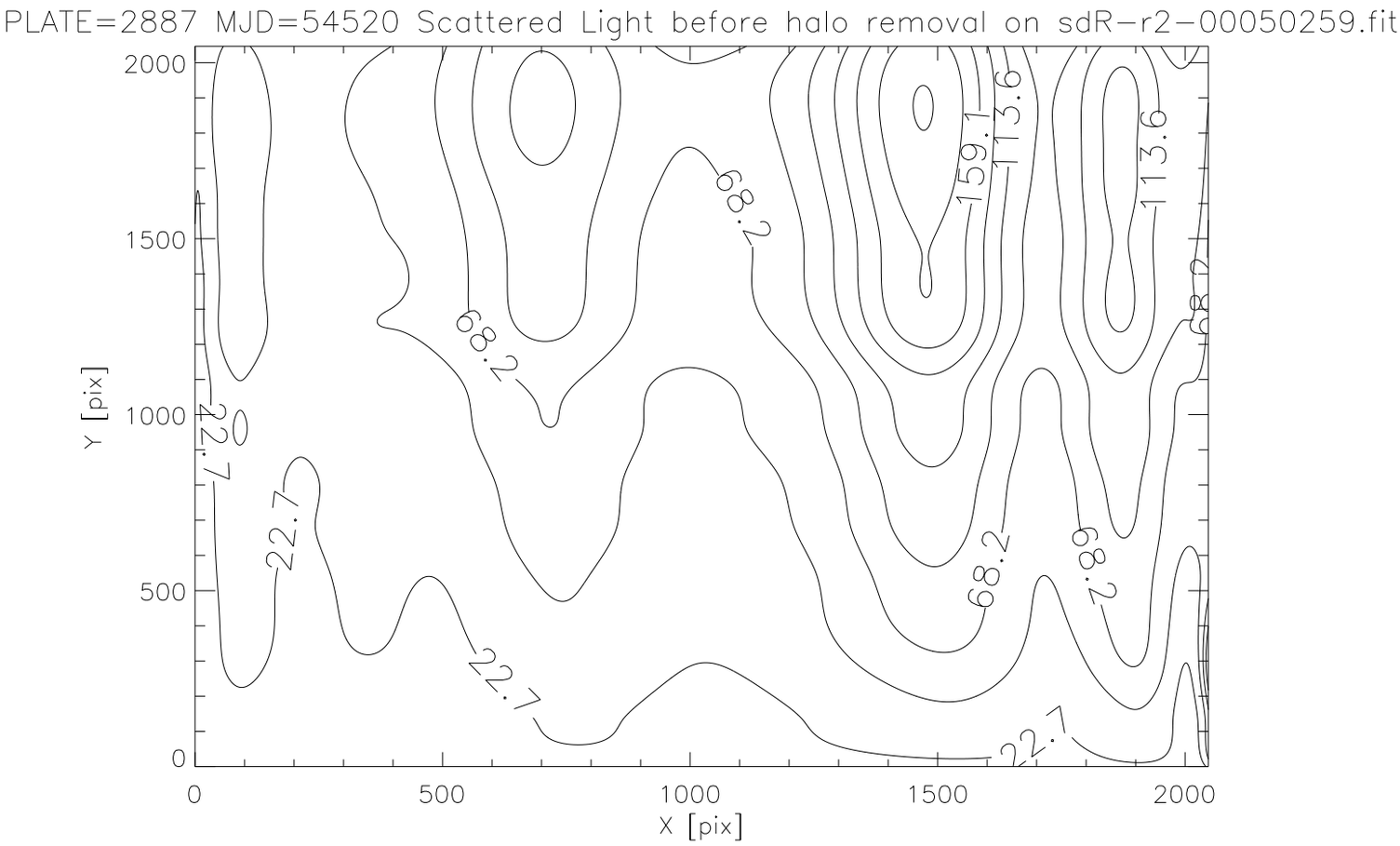

PLATE=2887 MJD=54520 sdR-r2-00050258.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
6000
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

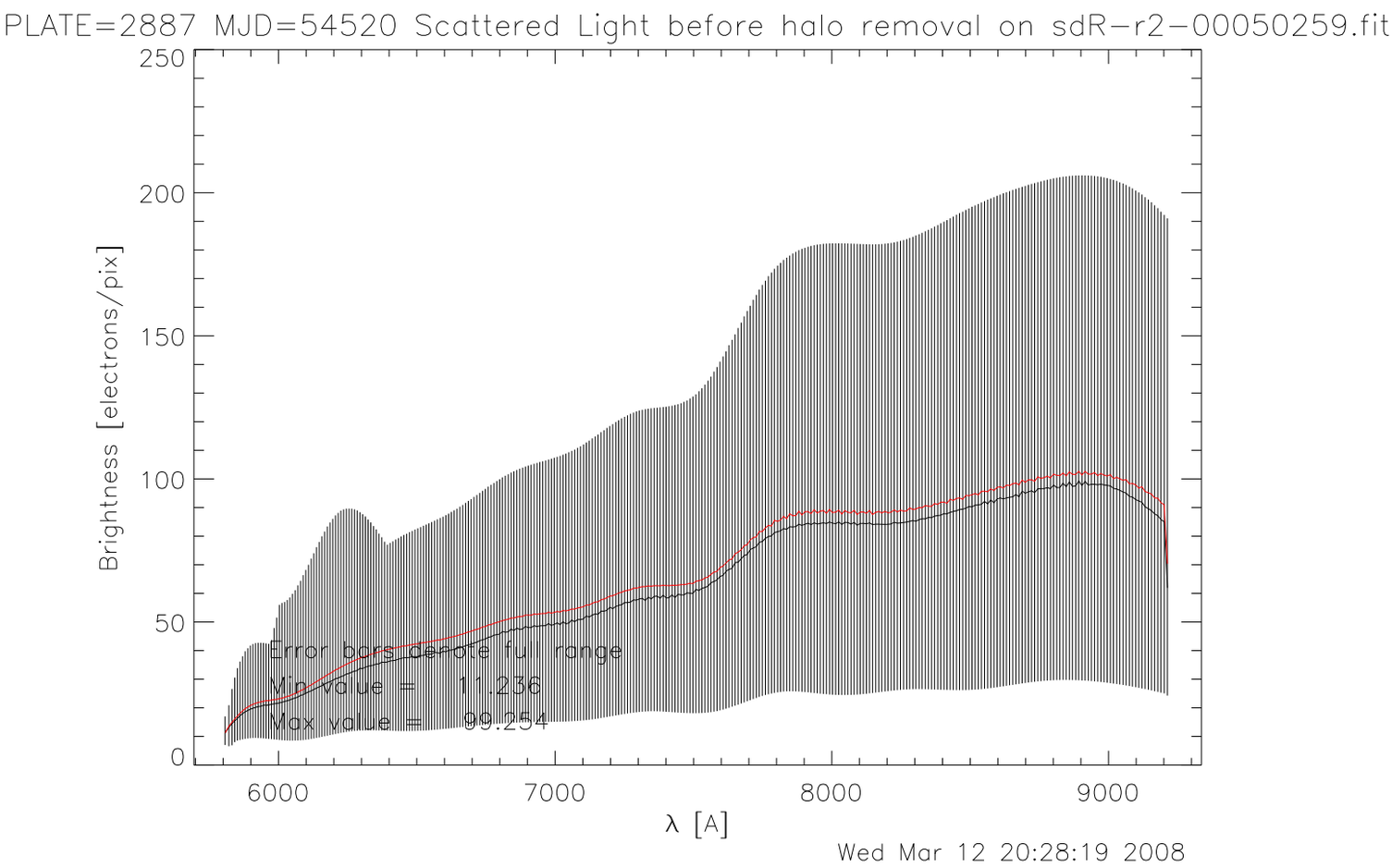

Number of sky fibers = 13
PLATE=2887 MJD=54520 sdR-r2-00050258.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

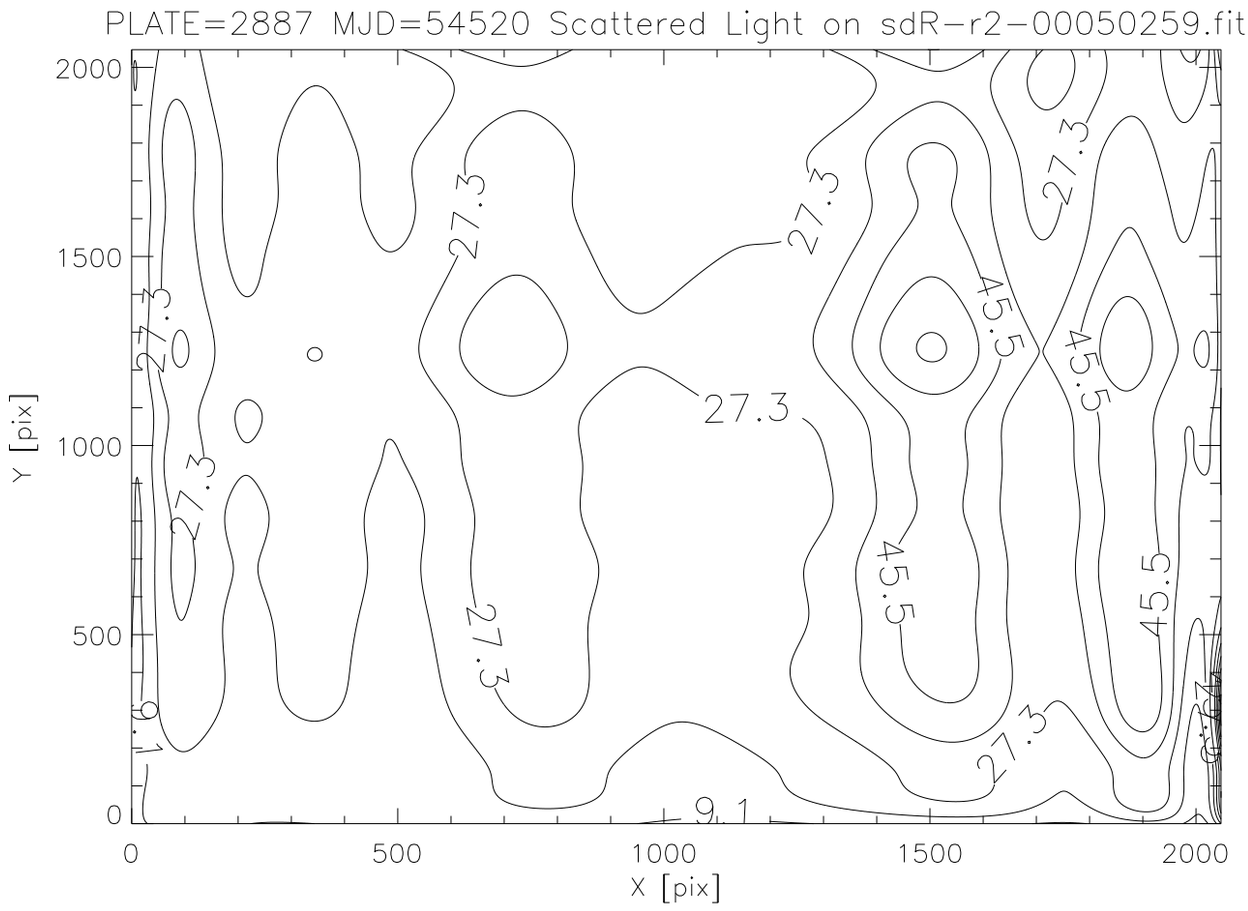

PLATE=2887 MJD=54520 sdR-r2-00050258.fit Skyline Flux at 7343,0
RED = sky fiber
Dispersion = 1.42 %
Flux (7343.0)/Airmass
Fiber number
Focal Distance [mm]
Airmass

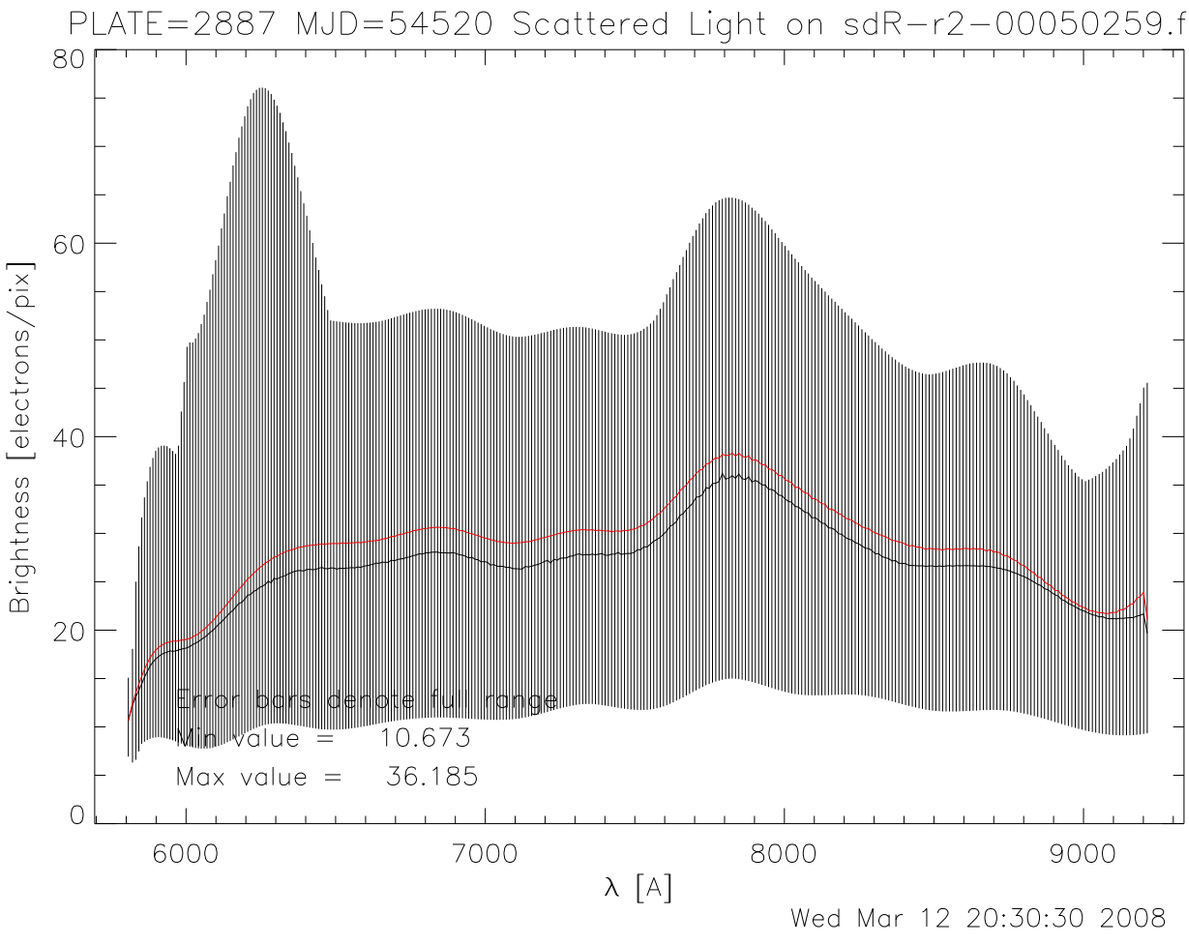

PLATE=2887 MJD=54520 sdR-r2-00050258.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.33 %
Fiber number
Focal Distance [mm]
Airmass

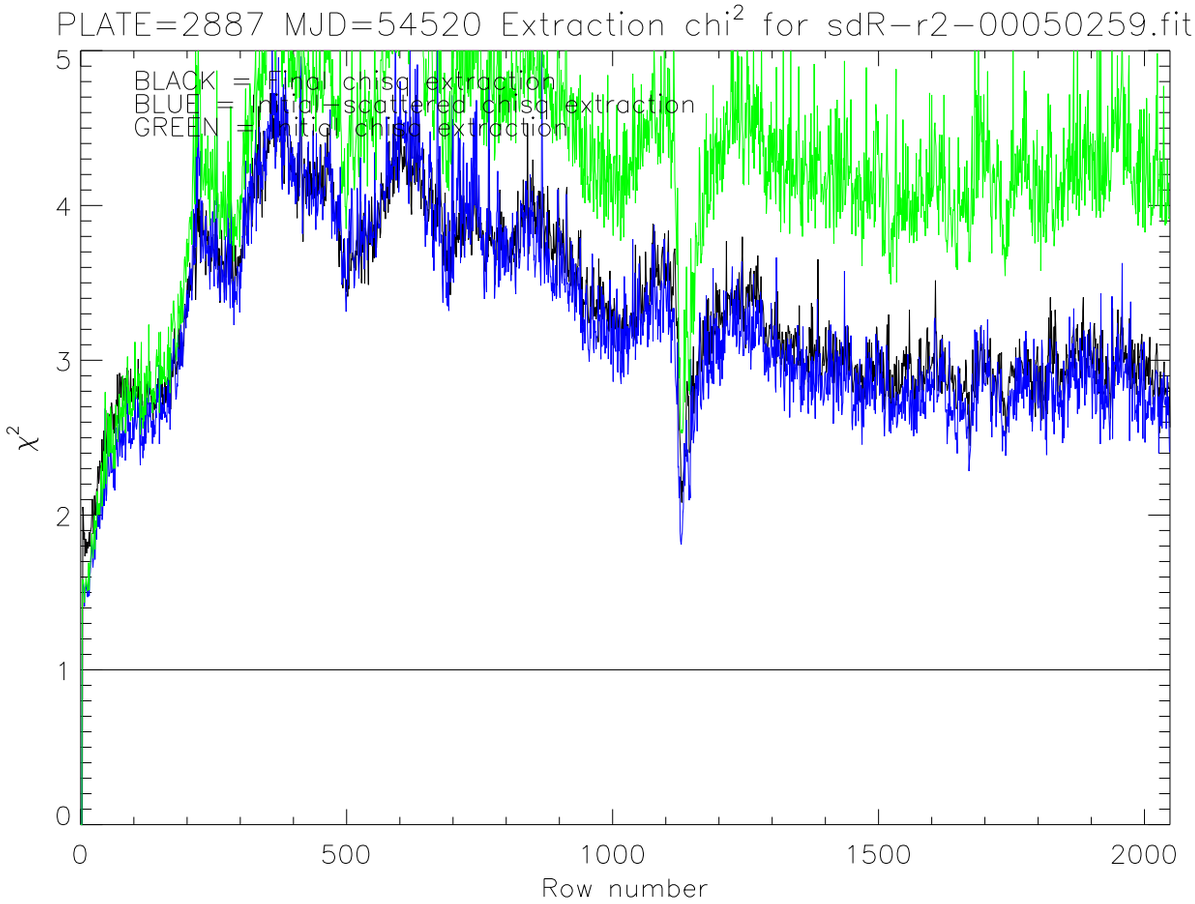

PLATE=2887 MJD=54520 Fiber-Flats for sdR-r2-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.651
Max value = 1.227
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 20:27:40 2008

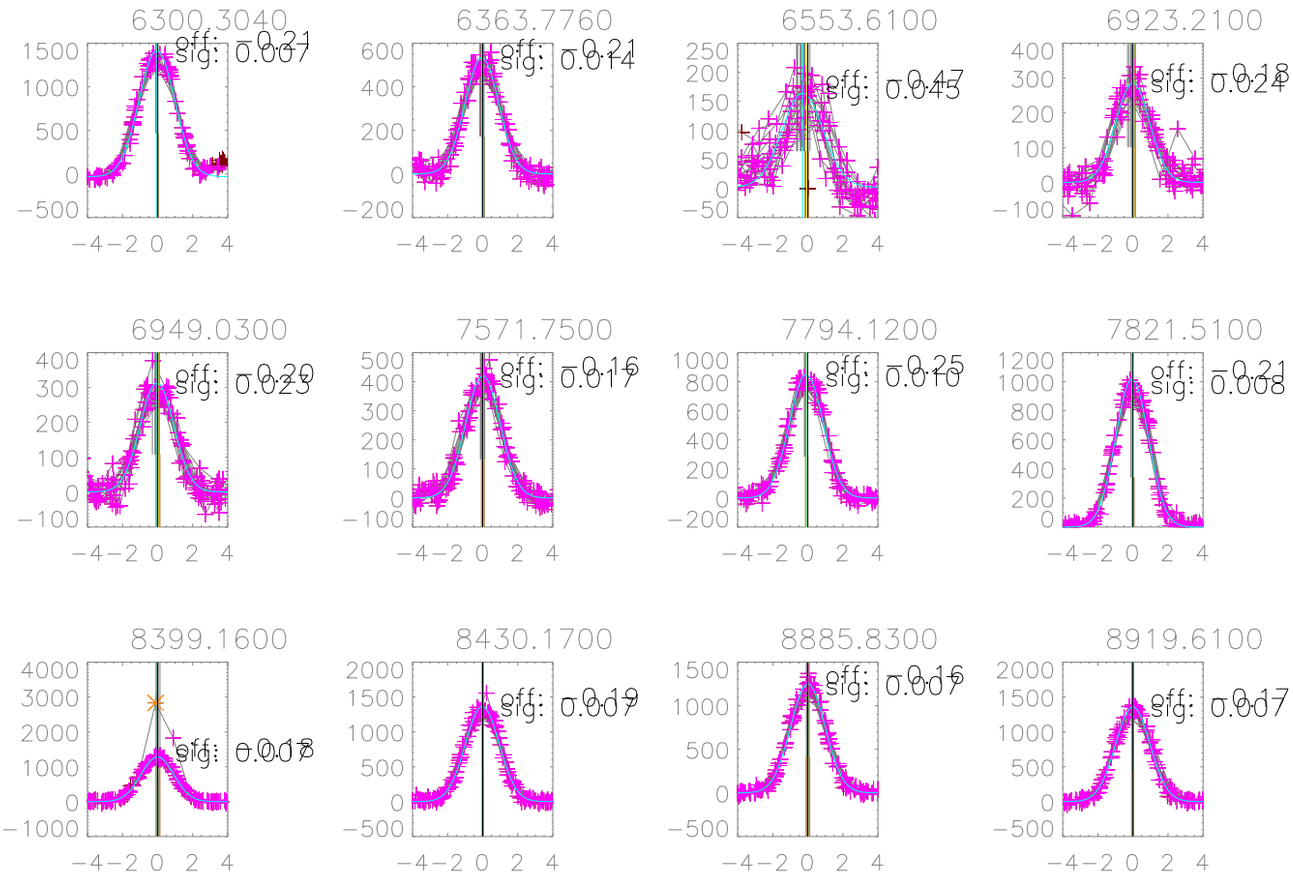

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r2-00050259.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
22.7
68.2
113.6
159.1

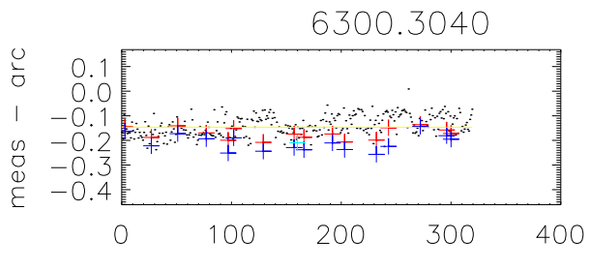

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r2-00050259.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 11.236
Max value = 99.254
Wed Mar 12 20:28:19 2008

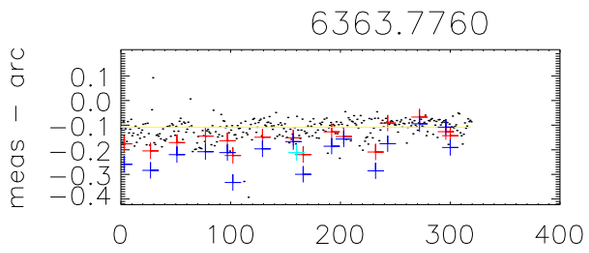

PLATE=2887 MJD=54520 Scattered Light on sdR-r2-00050259.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
27.3
45.5
9.1

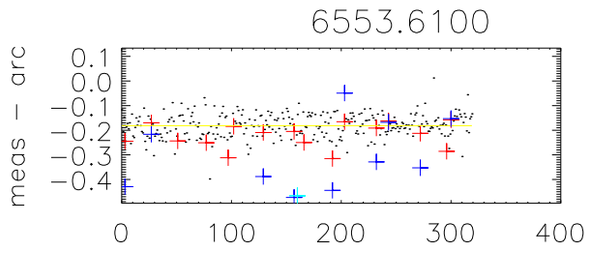

PLATE=2887 MJD=54520 Scattered Light on sdR-r2-00050259.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.673
Max value = 36.185
Wed Mar 12 20:30:30 2008

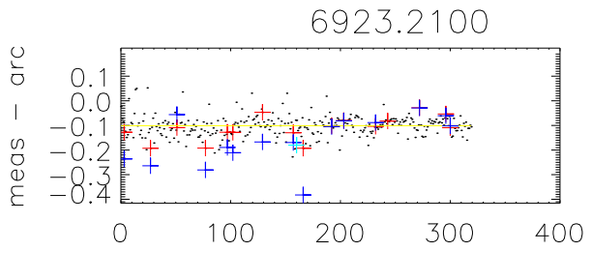

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-r2-00050259.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
500
1000
1500
2000
0
1
2
3
4
5

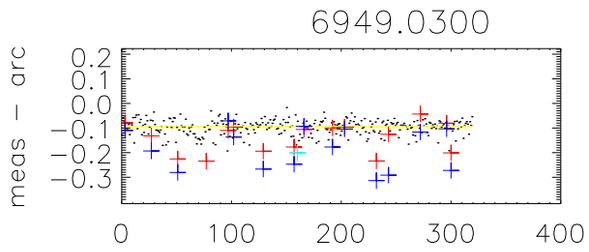

6300.3040
off: −0.21
sig: 0.007
6363.7760
off: −0.21
sig: 0.014
6553.6100
off: −0.47
sig: 0.045
6923.2100
off: −0.18
sig: 0.024
6949.0300
off: −0.20
sig: 0.023
7571.7500
off: −0.16
sig: 0.017
7794.1200
off: −0.25
sig: 0.010
7821.5100
off: −0.21
sig: 0.008
8399.1600
off: −0.18
sig: 0.007
8430.1700
off: −0.19
sig: 0.007
8885.8300
off: −0.16
sig: 0.007
8919.6100
off: −0.17
sig: 0.007

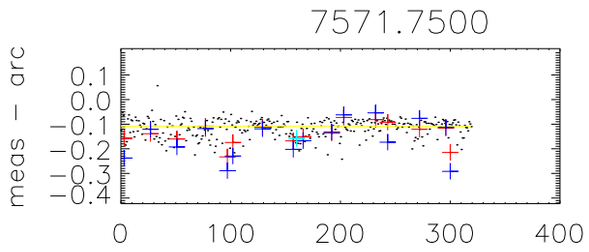

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

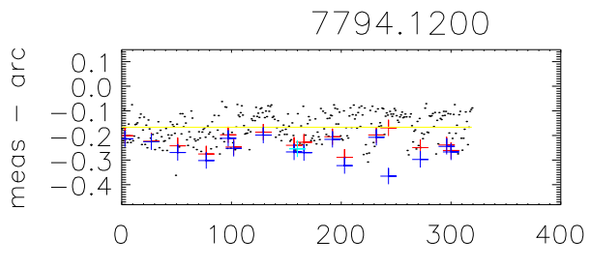

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

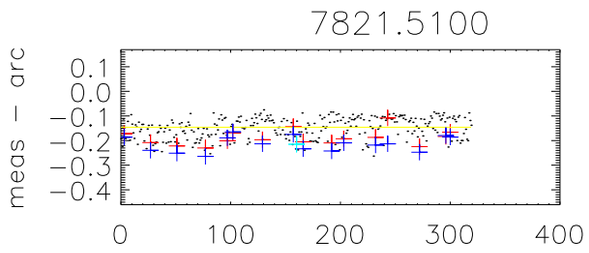

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

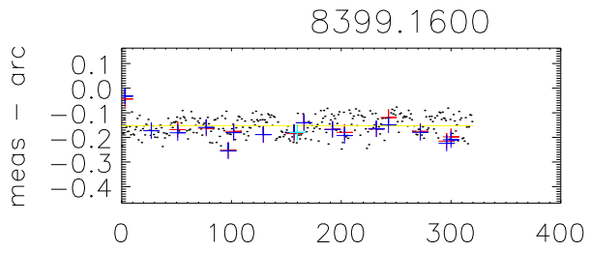

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

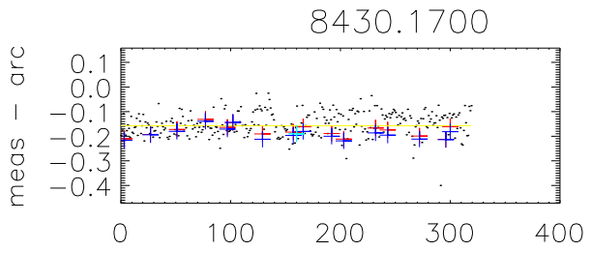

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

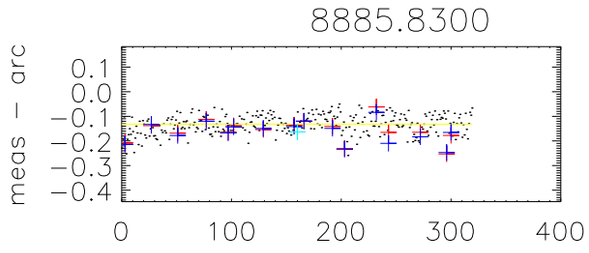

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

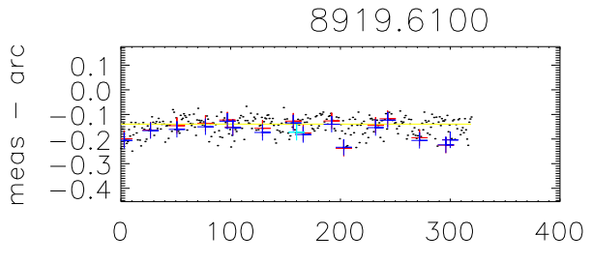

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

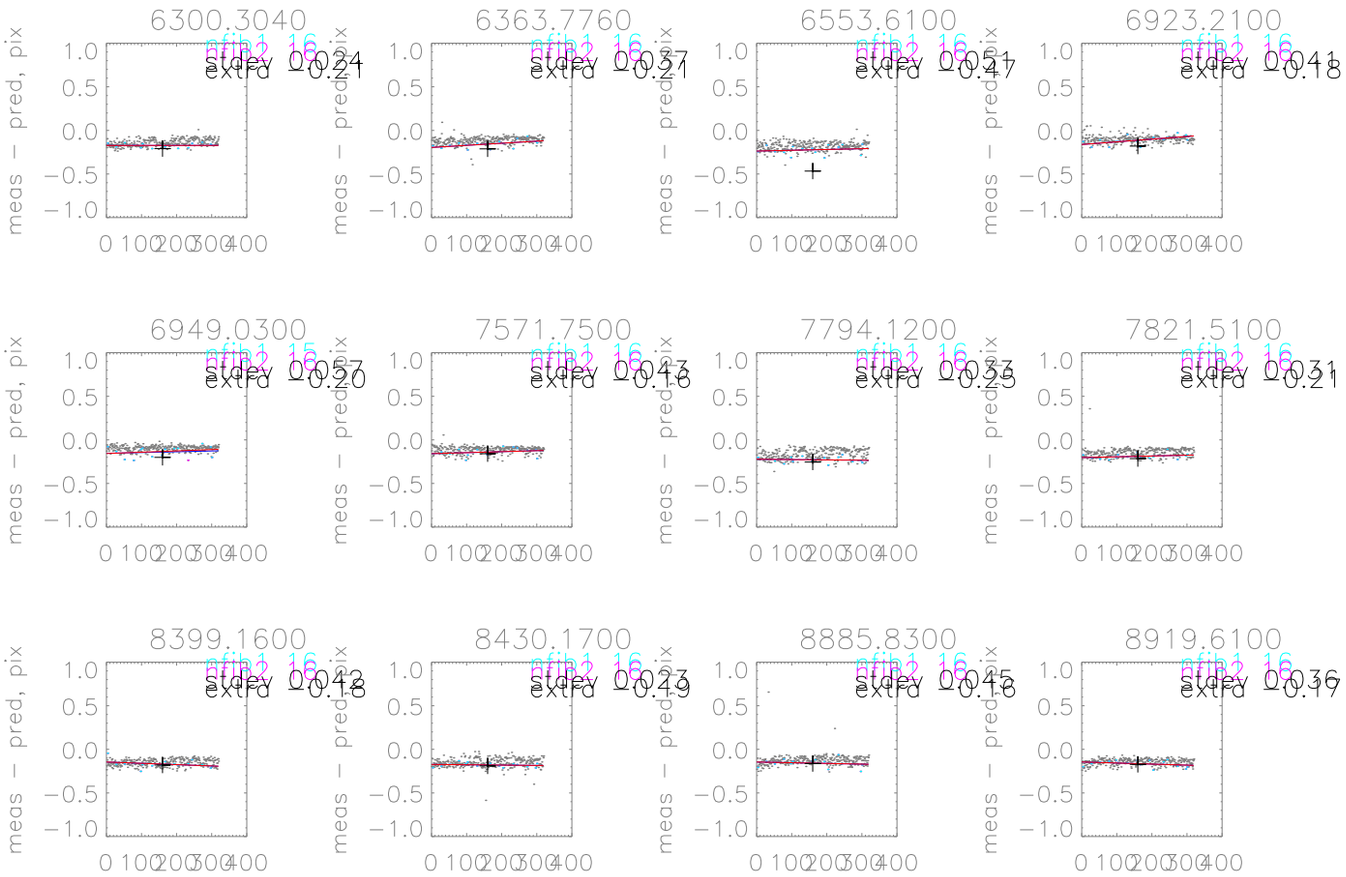

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

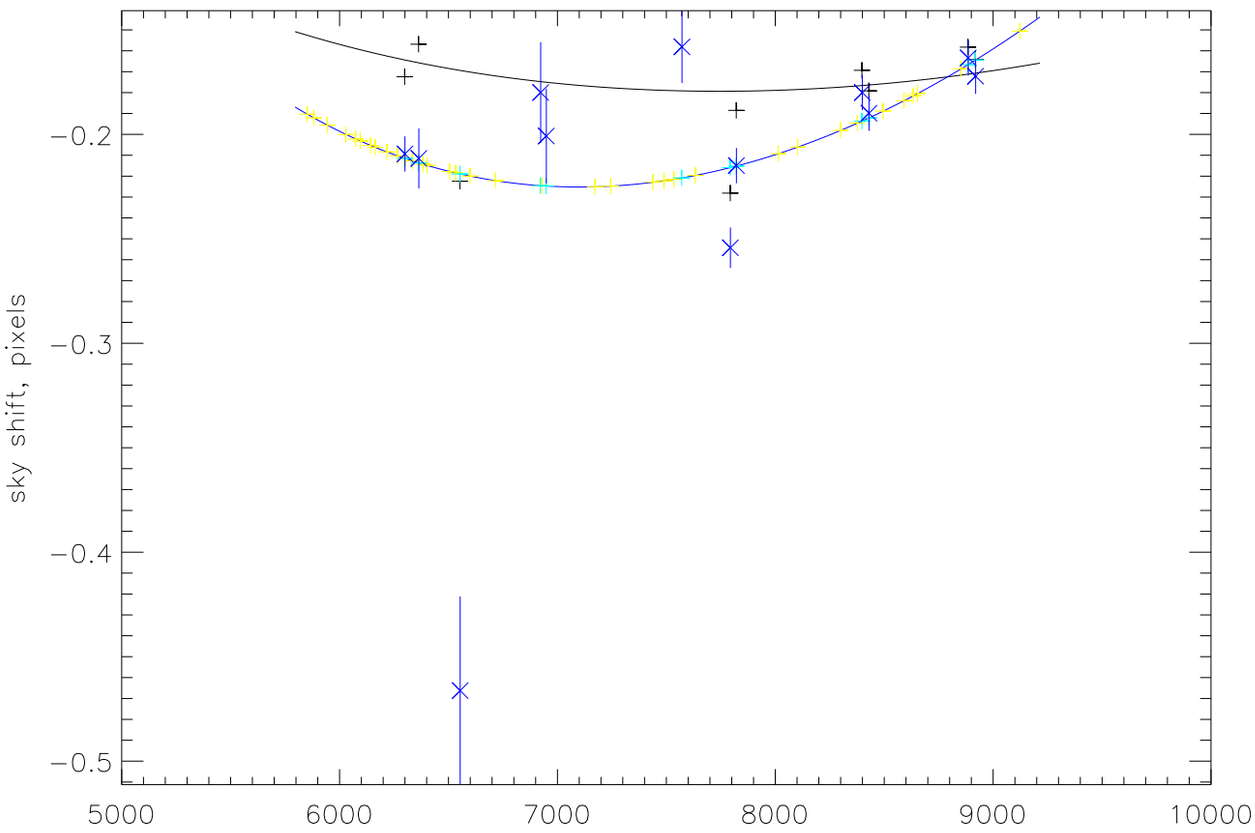

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

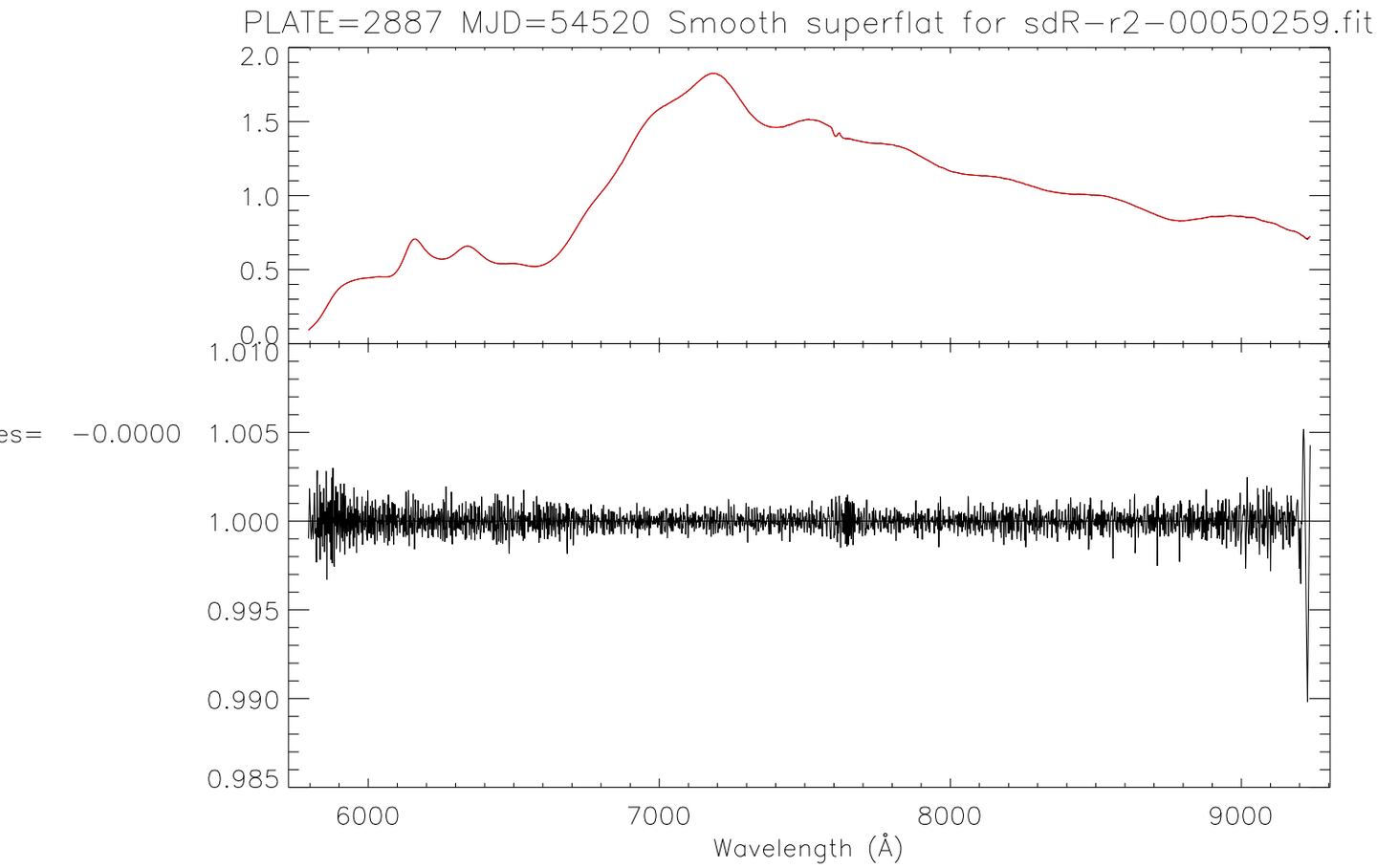

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

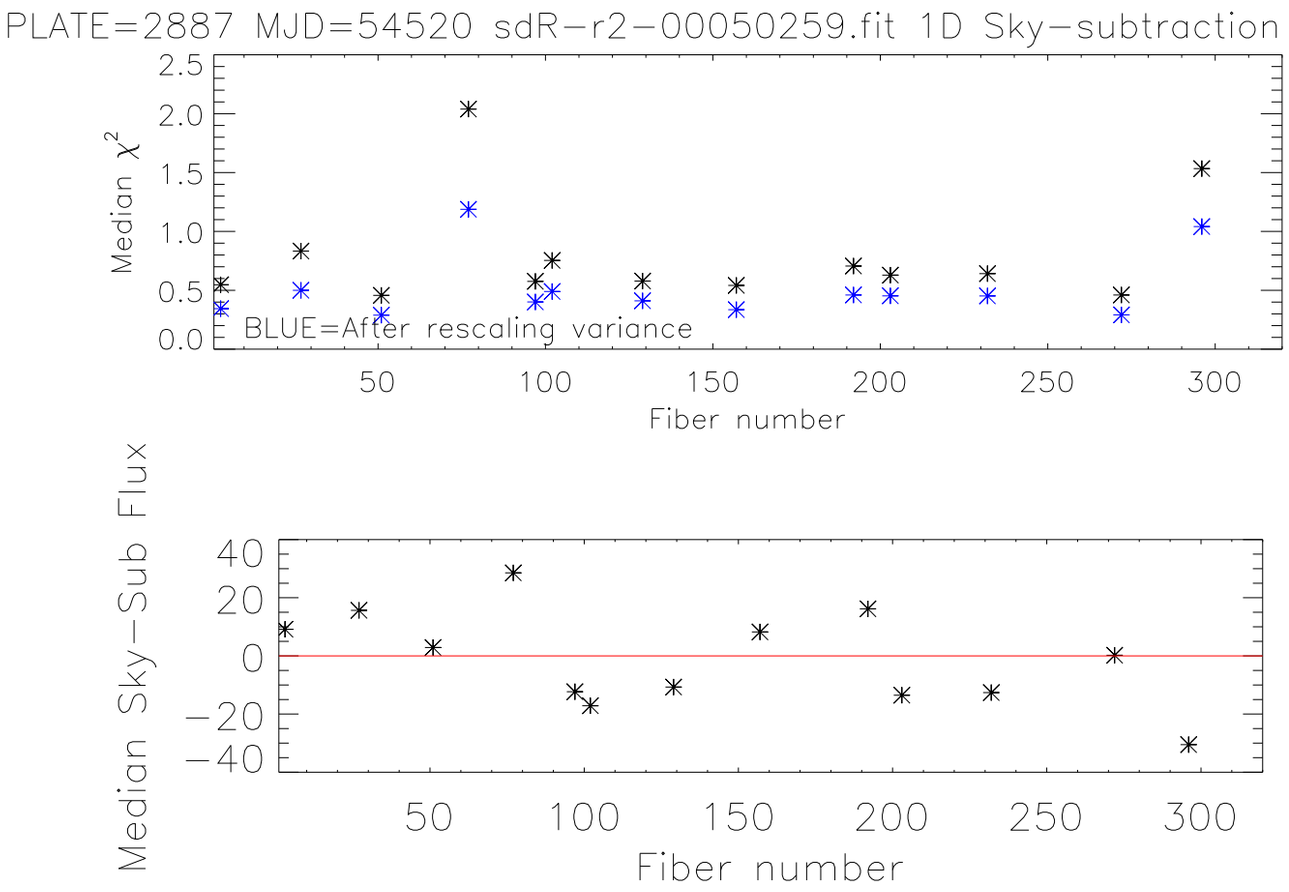

8885.8300
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

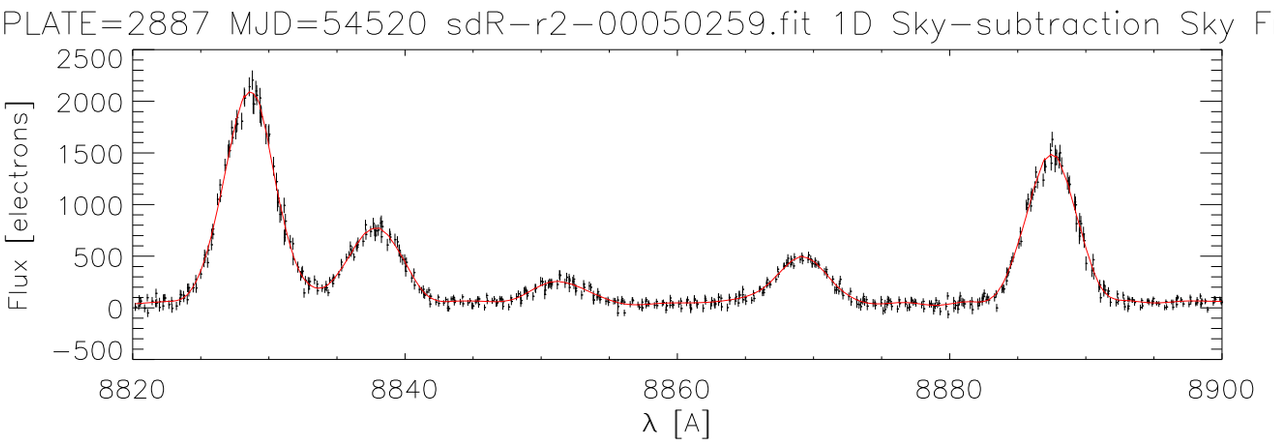

8919.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

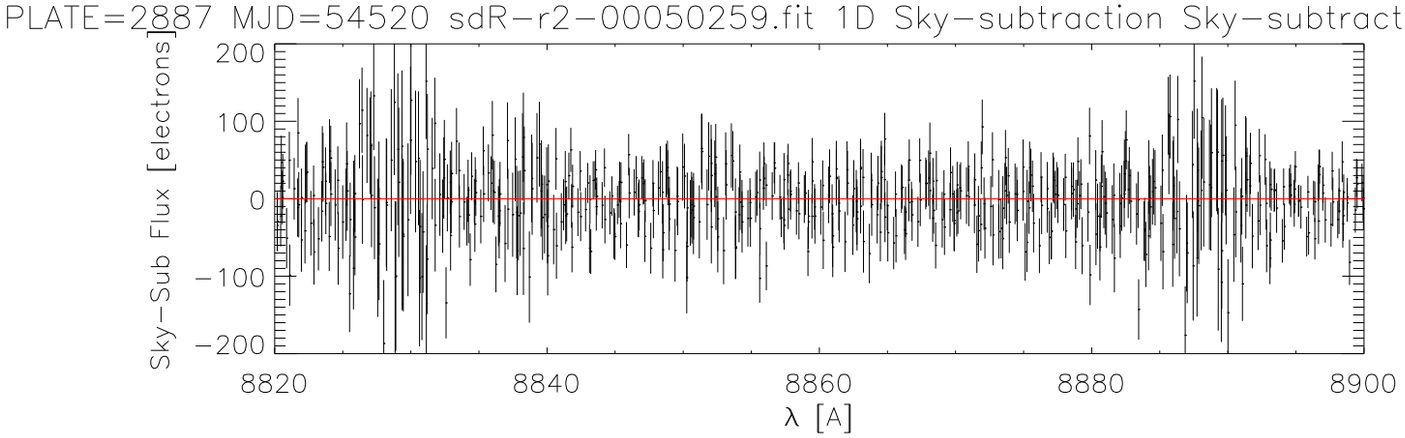

6300.3040
stdev 0.024
extra -0.21
6363.7760
stdev 0.027
extra -0.21
6553.6100
stdev 0.047
extra -0.47
6923.2100
stdev 0.041
extra -0.18
6949.0300
stdev 0.027
extra -0.20
7571.7500
stdev 0.043
extra -0.16
7794.1200
stdev 0.033
extra -0.25
7821.5100
stdev 0.031
extra -0.21
8399.1600
stdev 0.042
extra -0.18
8430.1700
stdev 0.043
extra -0.19
8885.8300
stdev 0.045
extra -0.16
8919.6100
stdev 0.036
extra -0.17
meas - pred, pix

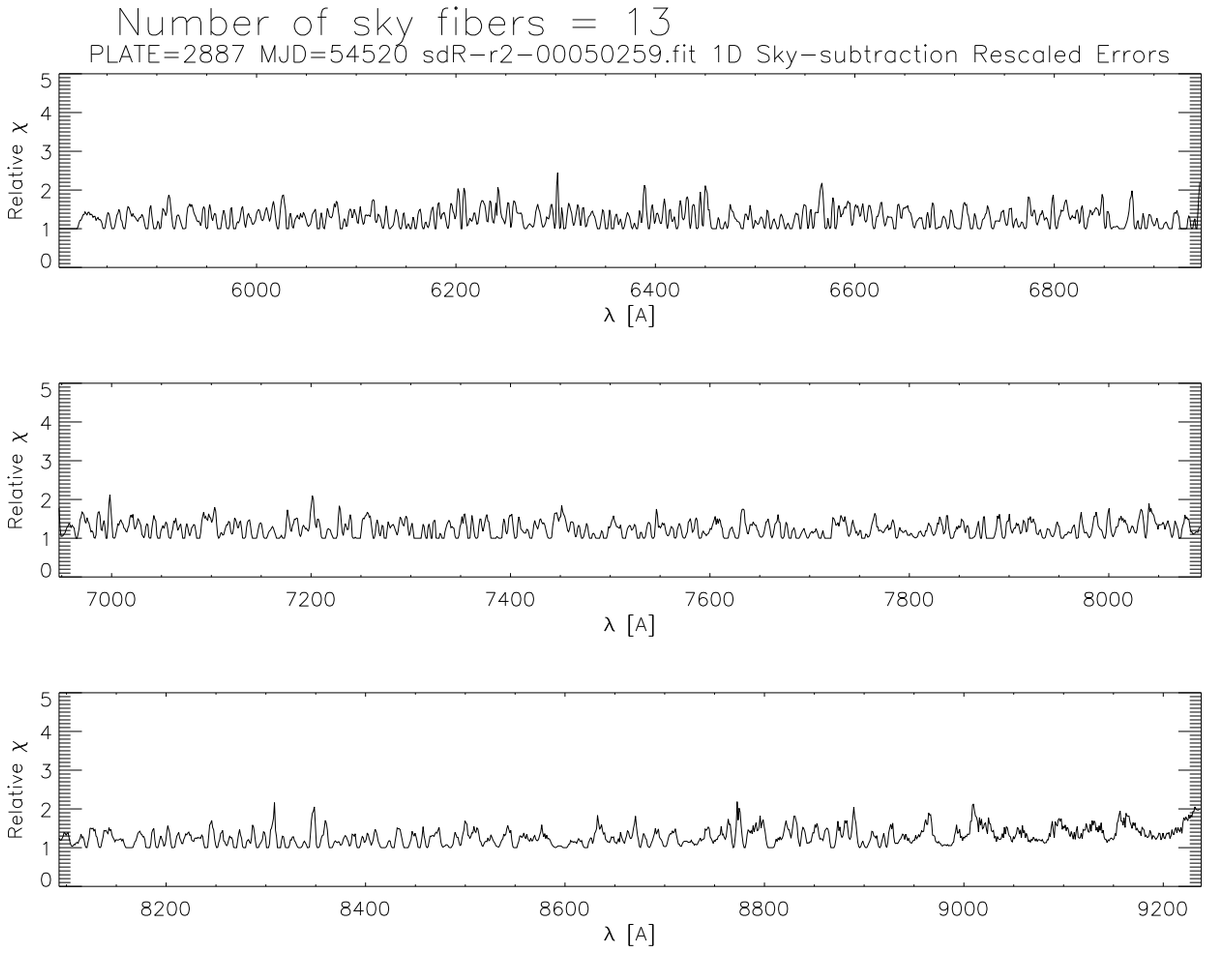

sky shift, pixels
−0.2
−0.3
−0.4
−0.5
5000
6000
7000
8000
9000
10000

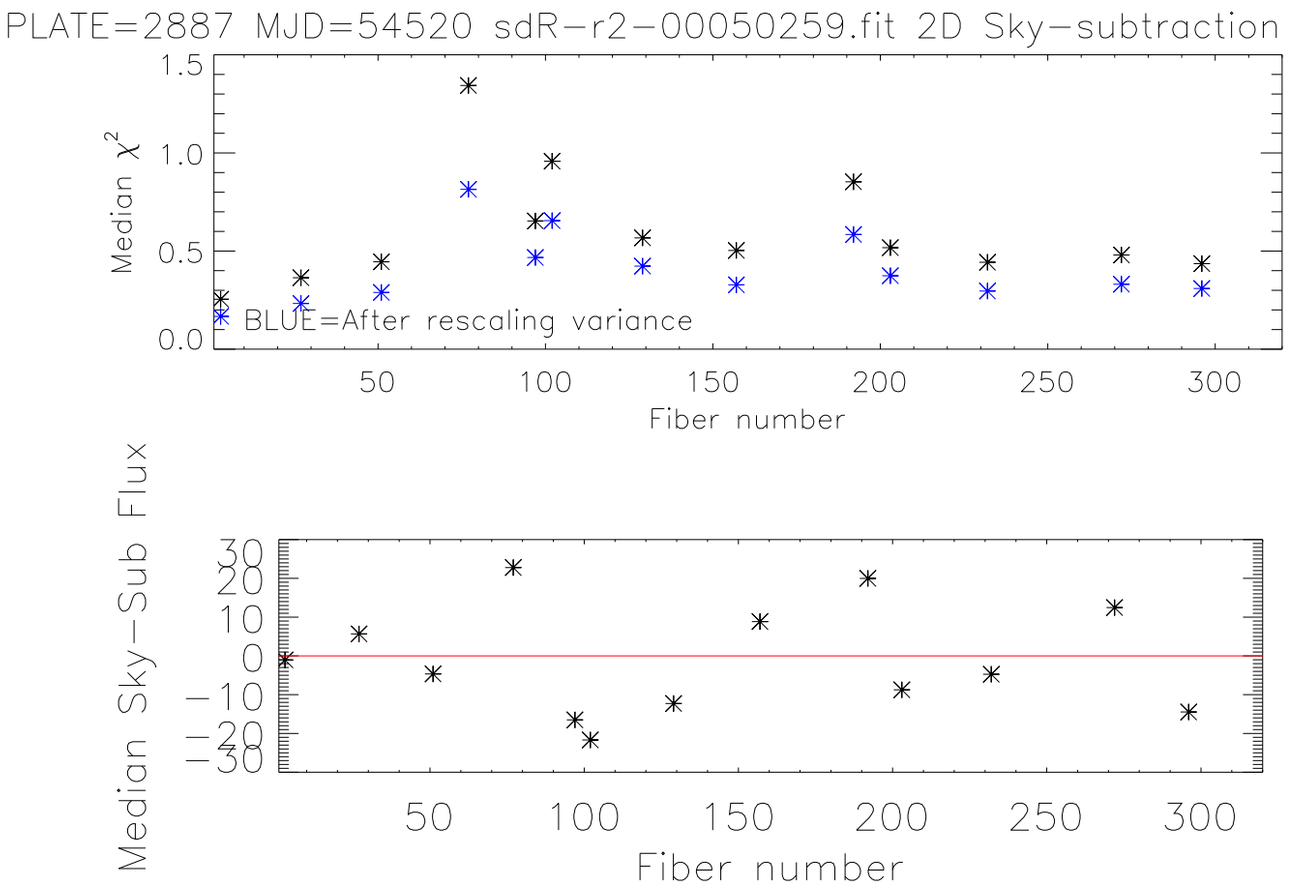

PLATE=2887 MJD=54520 Smooth superflat for sdR-r2-00050259.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)


PLATE=2887 MJD=54520 sdR-r2-00050259.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

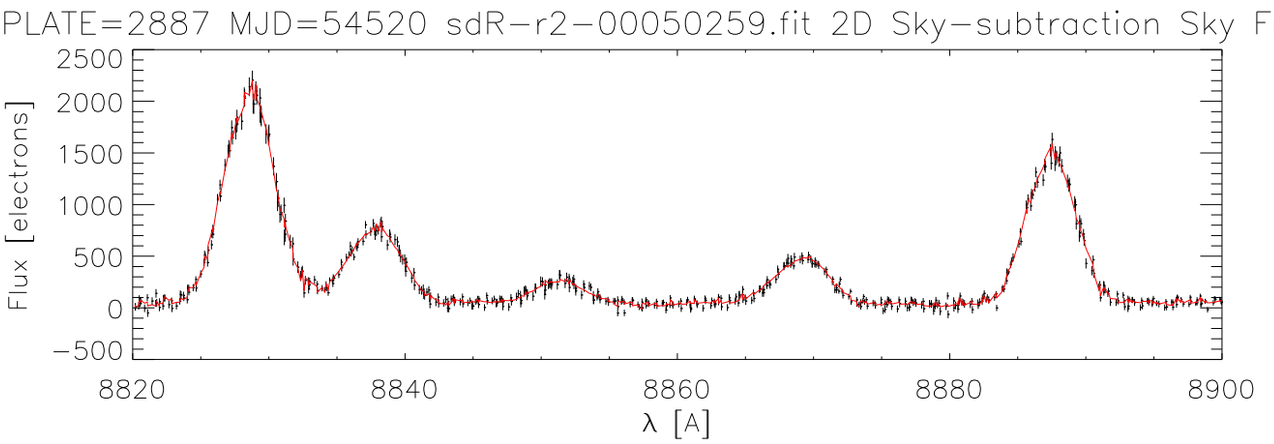

PLATE=2887 MJD=54520 sdR-r2-00050259.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

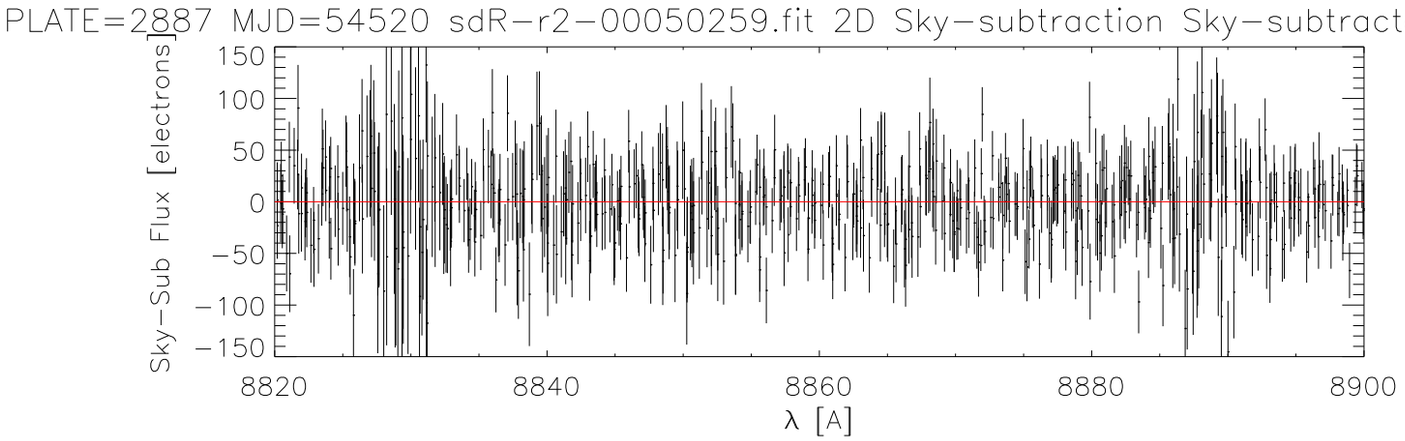

PLATE=2887 MJD=54520 sdR-r2-00050259.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

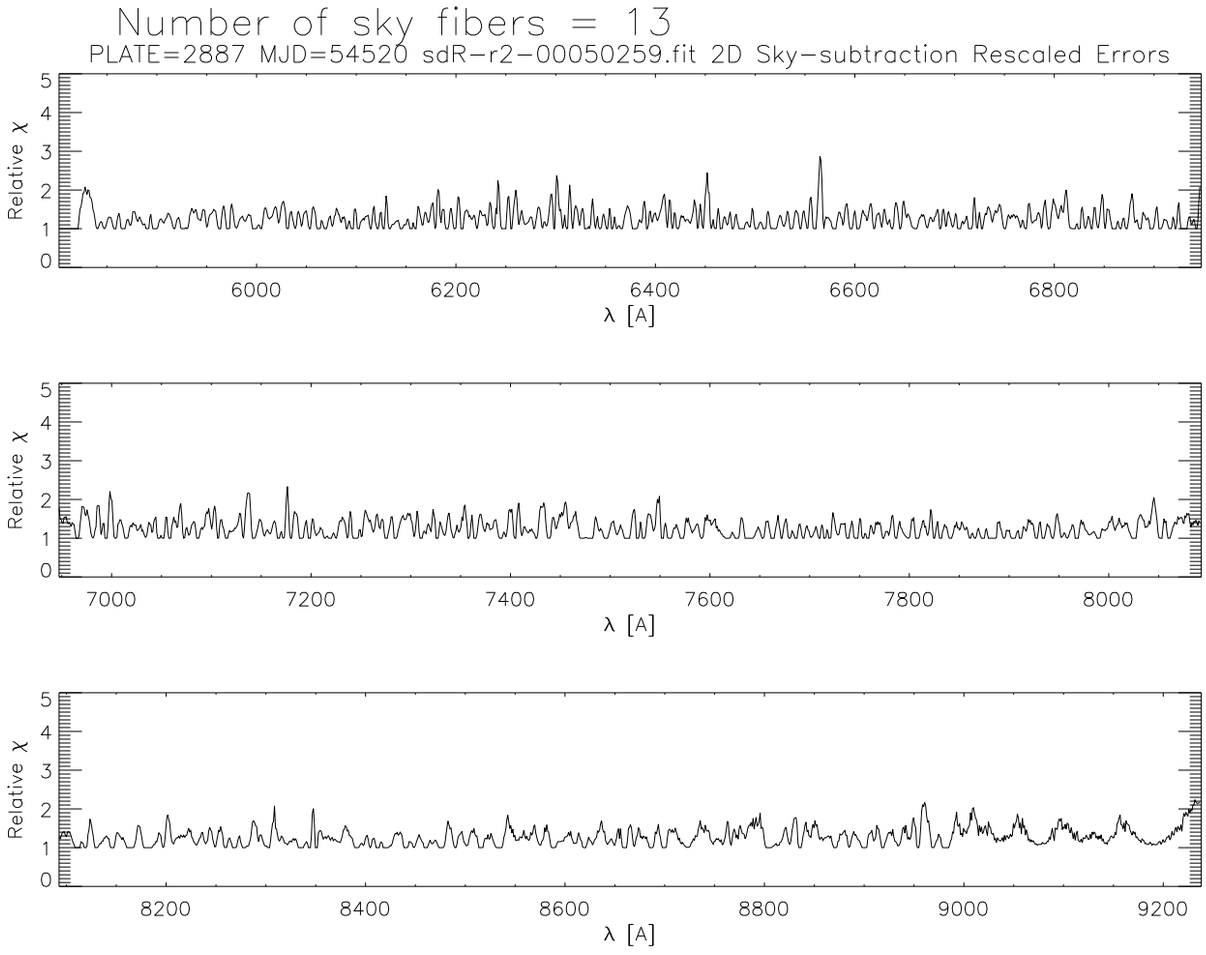

Number of sky fibers = 13
PLATE=2887 MJD=54520 sdR-r2-00050259.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

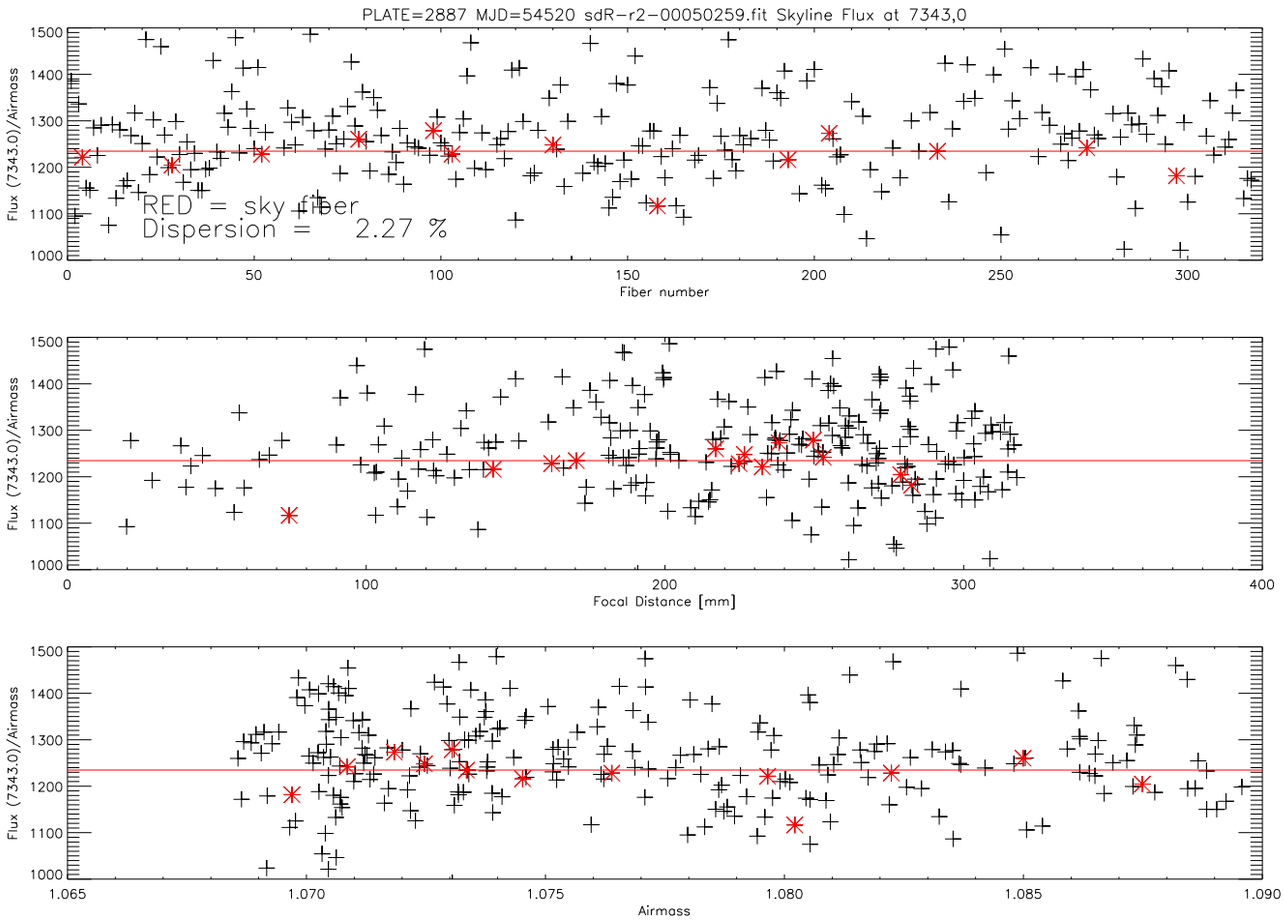

PLATE=2887 MJD=54520 sdR-r2-00050259.fit 2D Sky-subtraction Sky Fibers
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

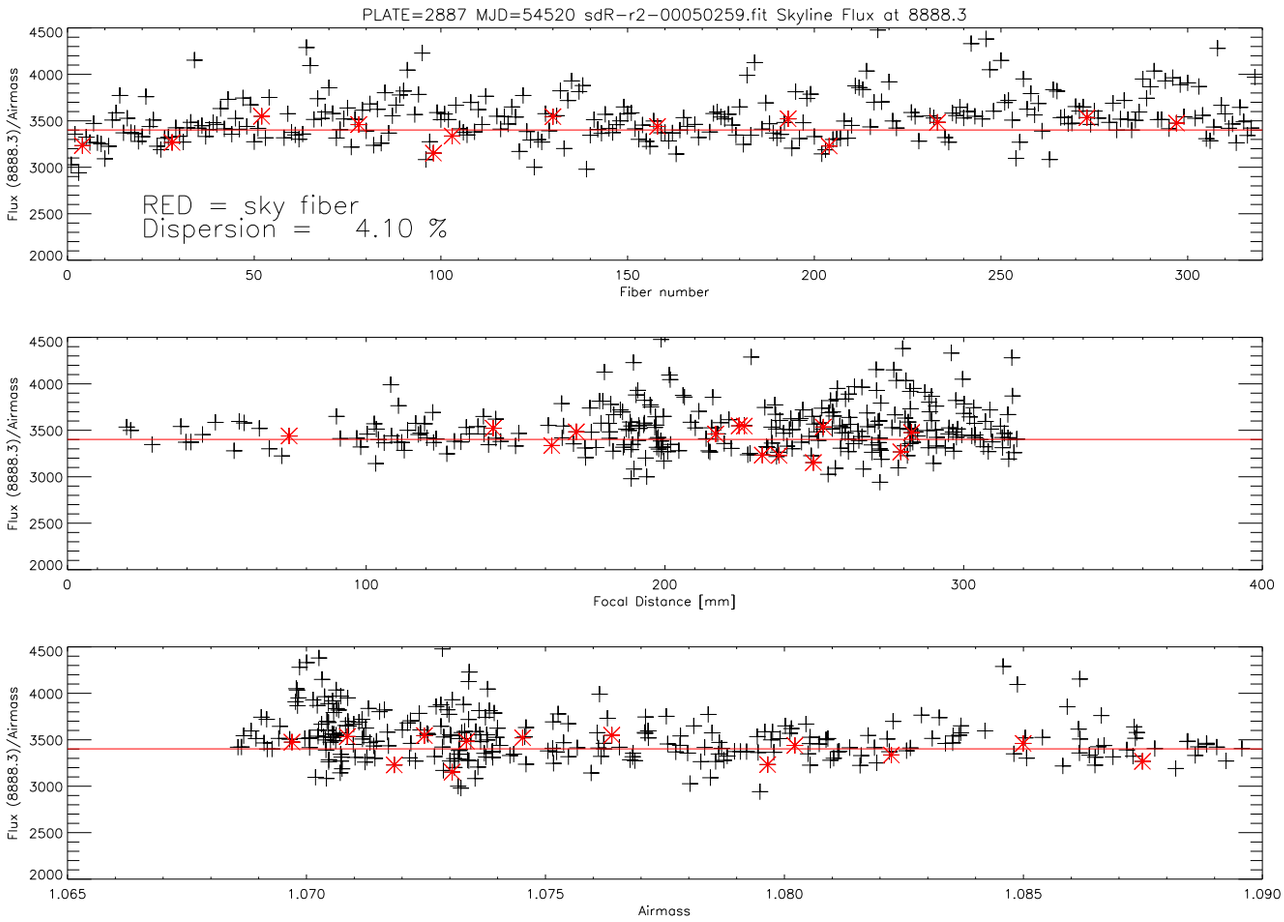
Median Sky-Sub Flux
30
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

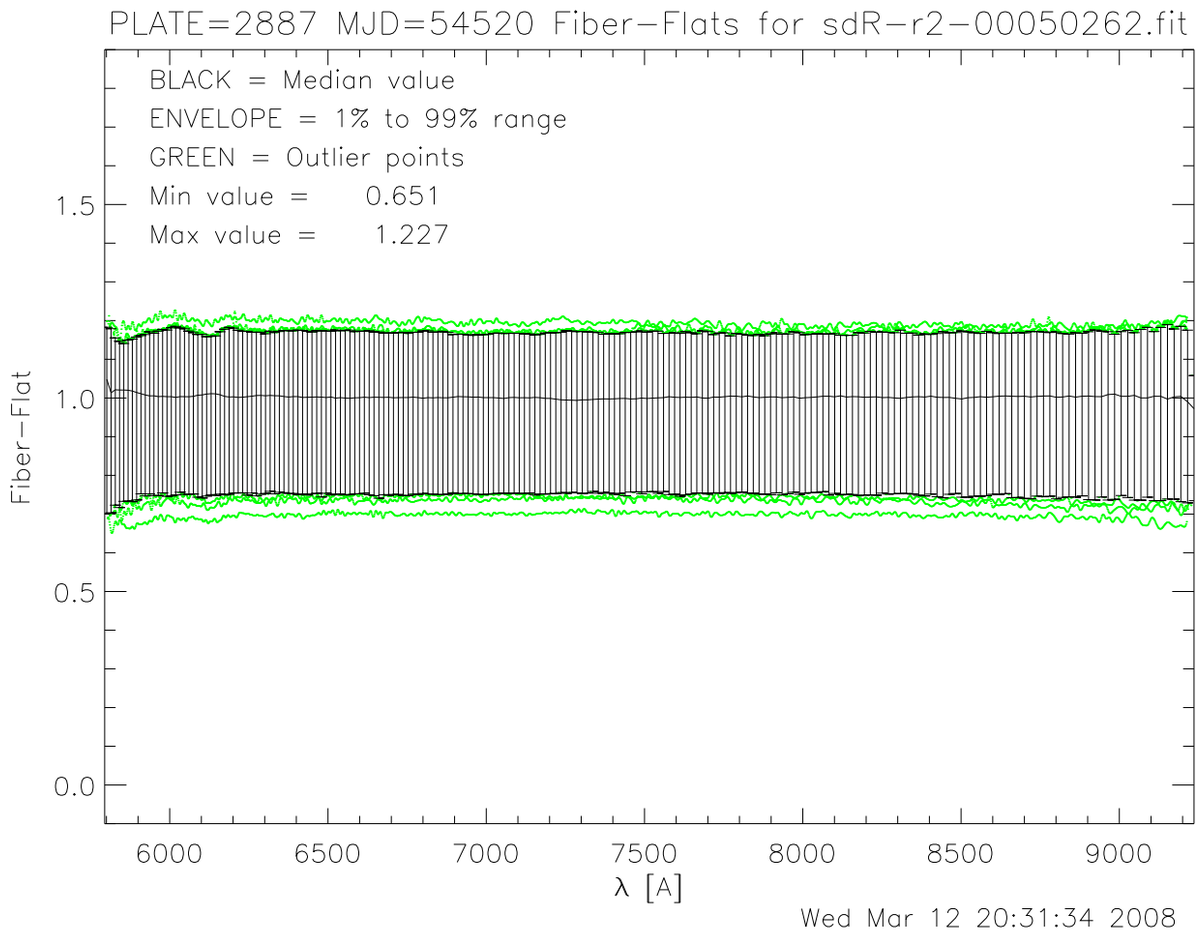

PLATE=2887 MJD=54520 sdR-r2-00050259.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

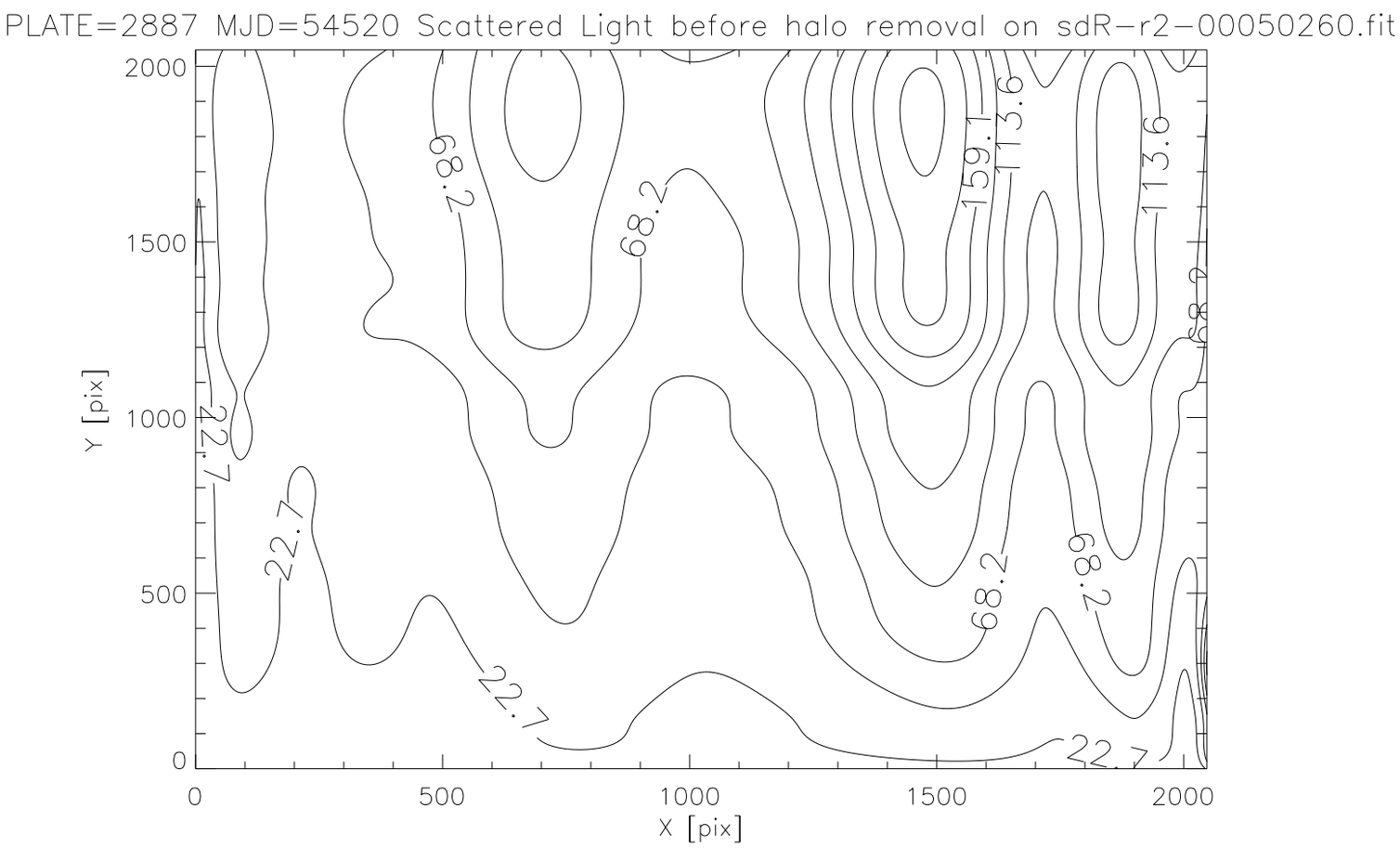

PLATE=2887 MJD=54520 sdR-r2-00050259.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
150
100
50
0
-50
-100
-150
8820
8840
8860
8880
8900
λ [A]

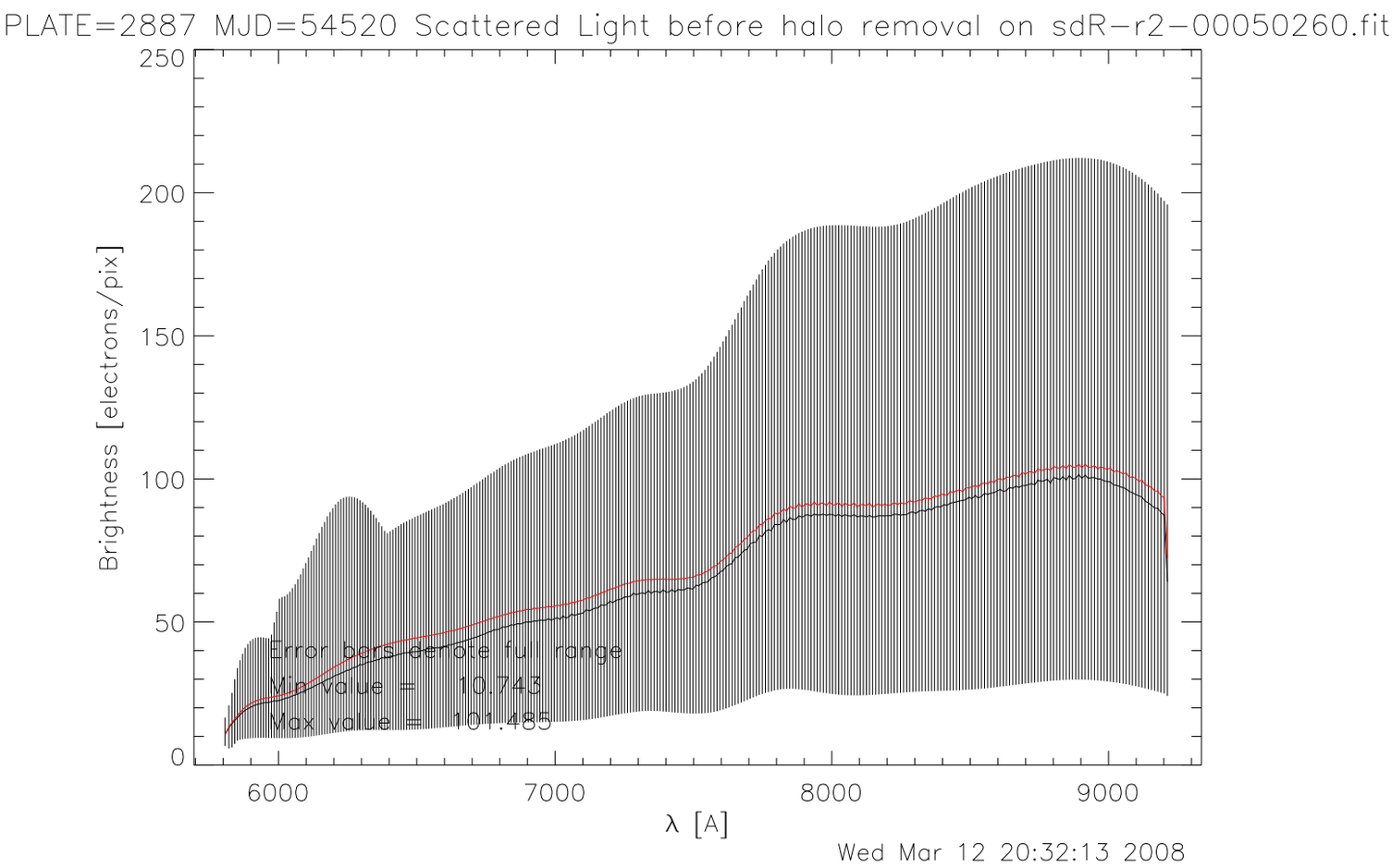

Number of sky fibers = 13
PLATE=2887 MJD=54520 sdR-r2-00050259.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

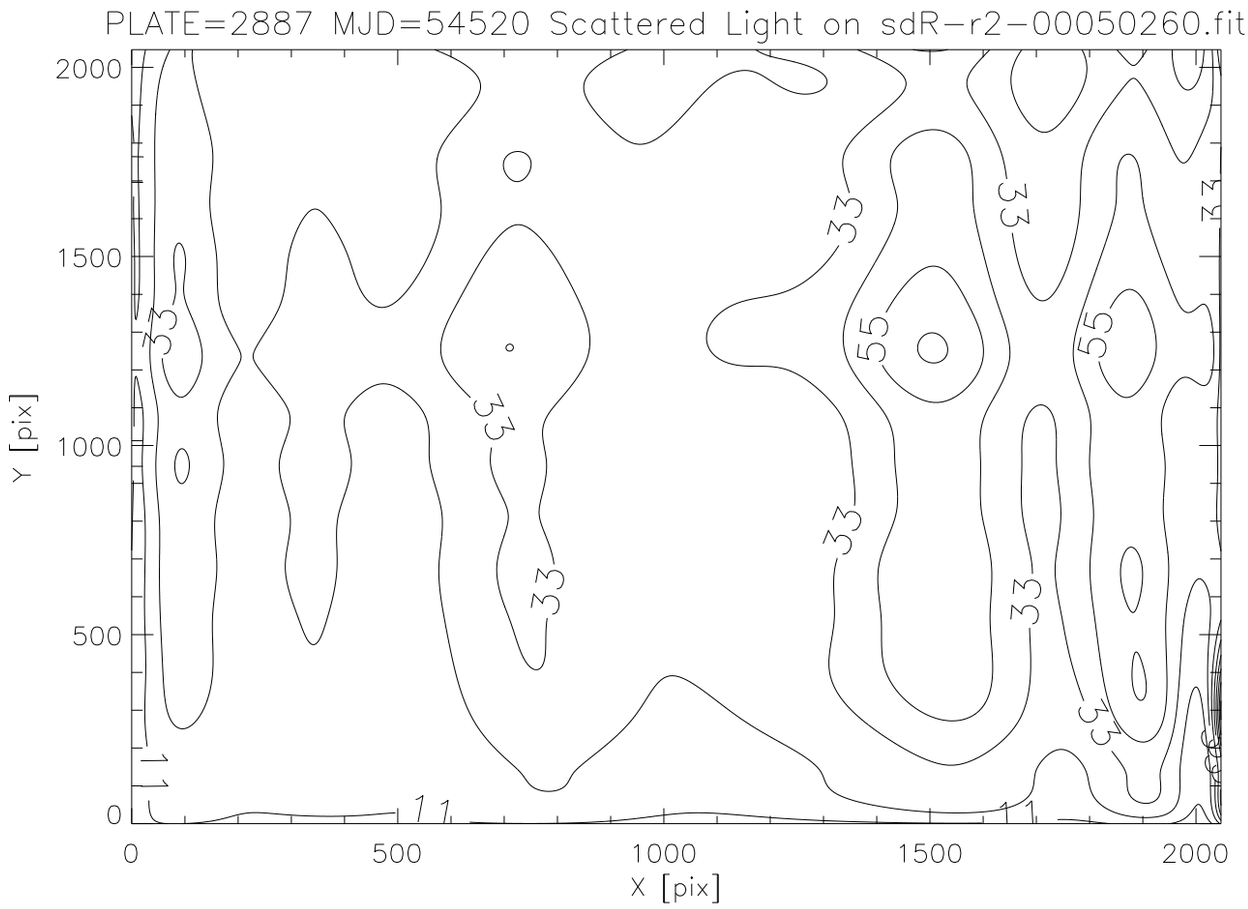

PLATE=2887 MJD=54520 sdR-r2-00050259.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 2.27 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

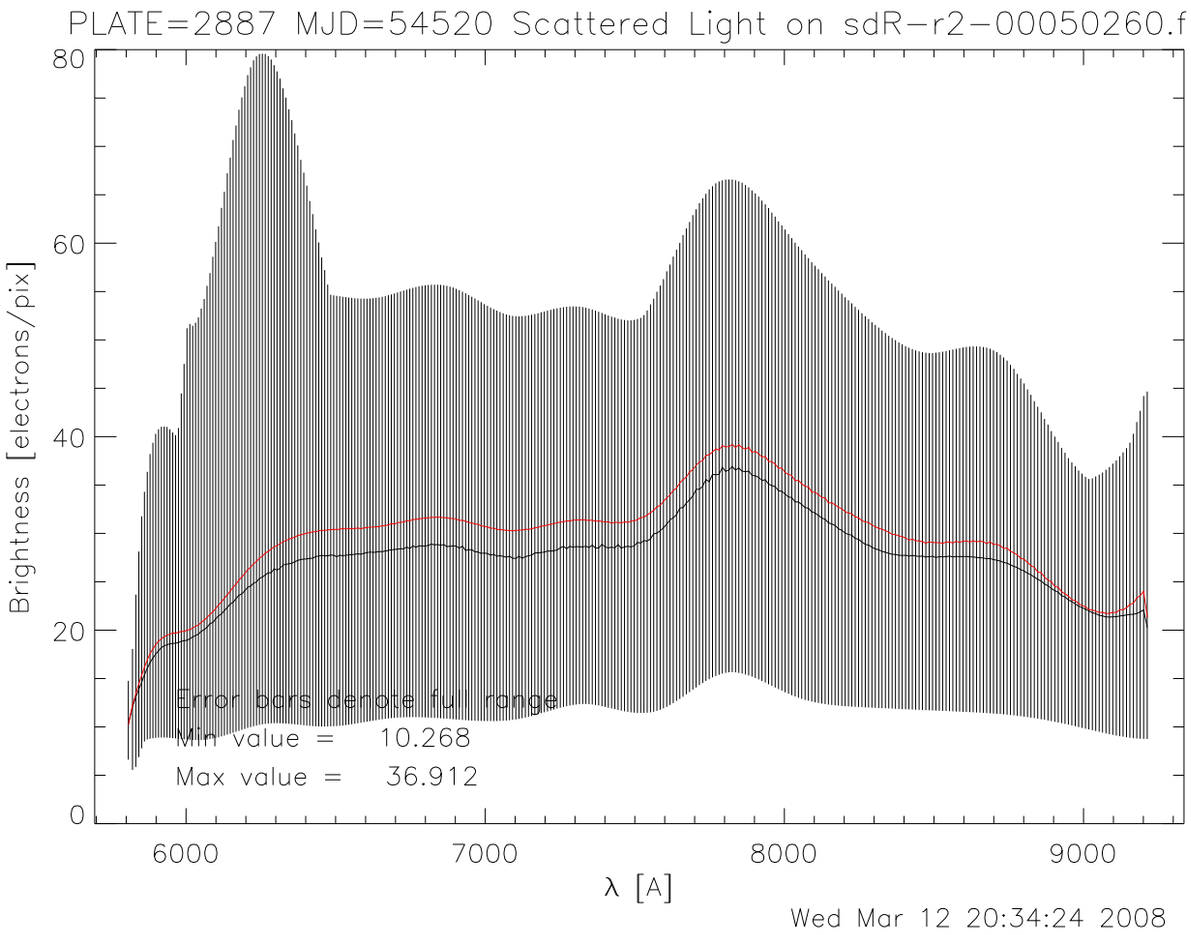

PLATE=2887 MJD=54520 sdR-r2-00050259.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 4.10 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

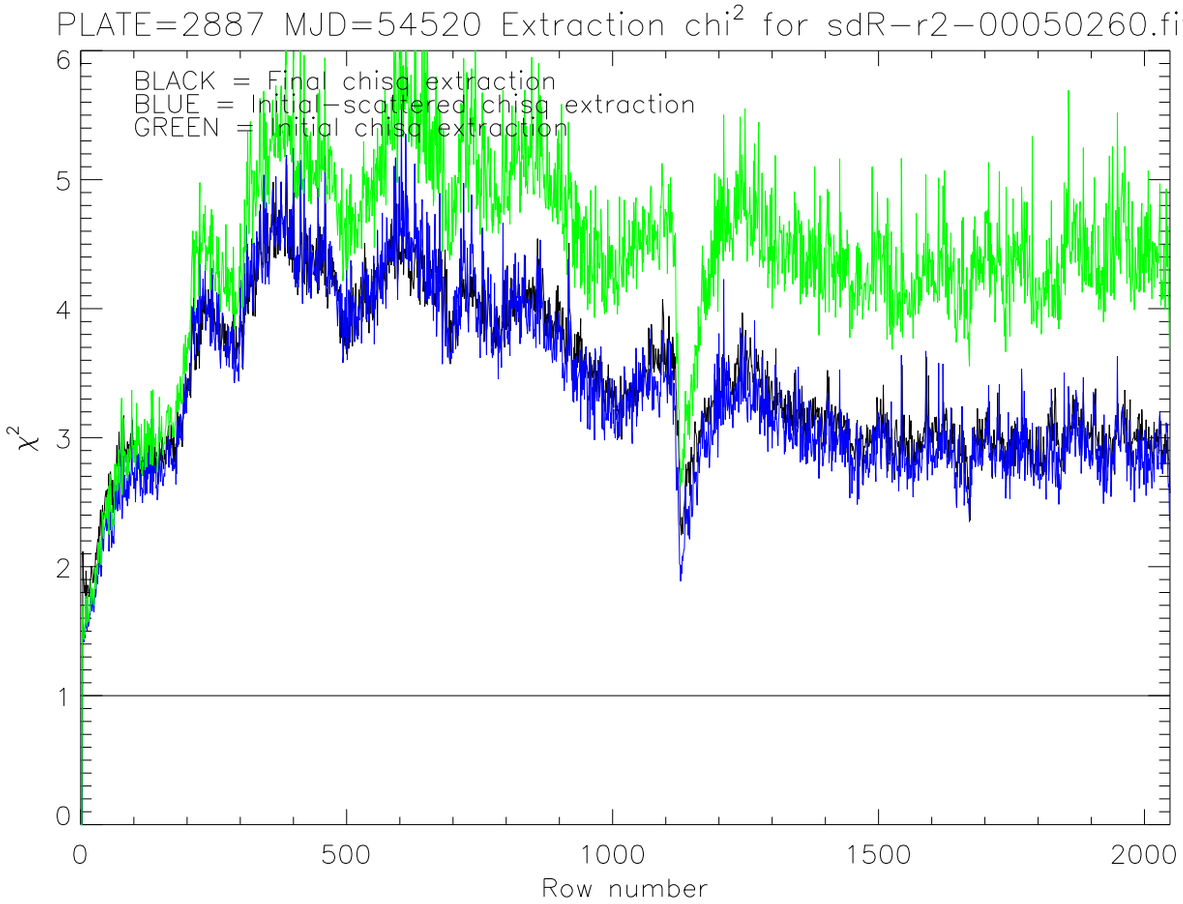

PLATE=2887 MJD=54520 Fiber-Flats for sdR-r2-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.651
Max value = 1.227
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 20:31:34 2008

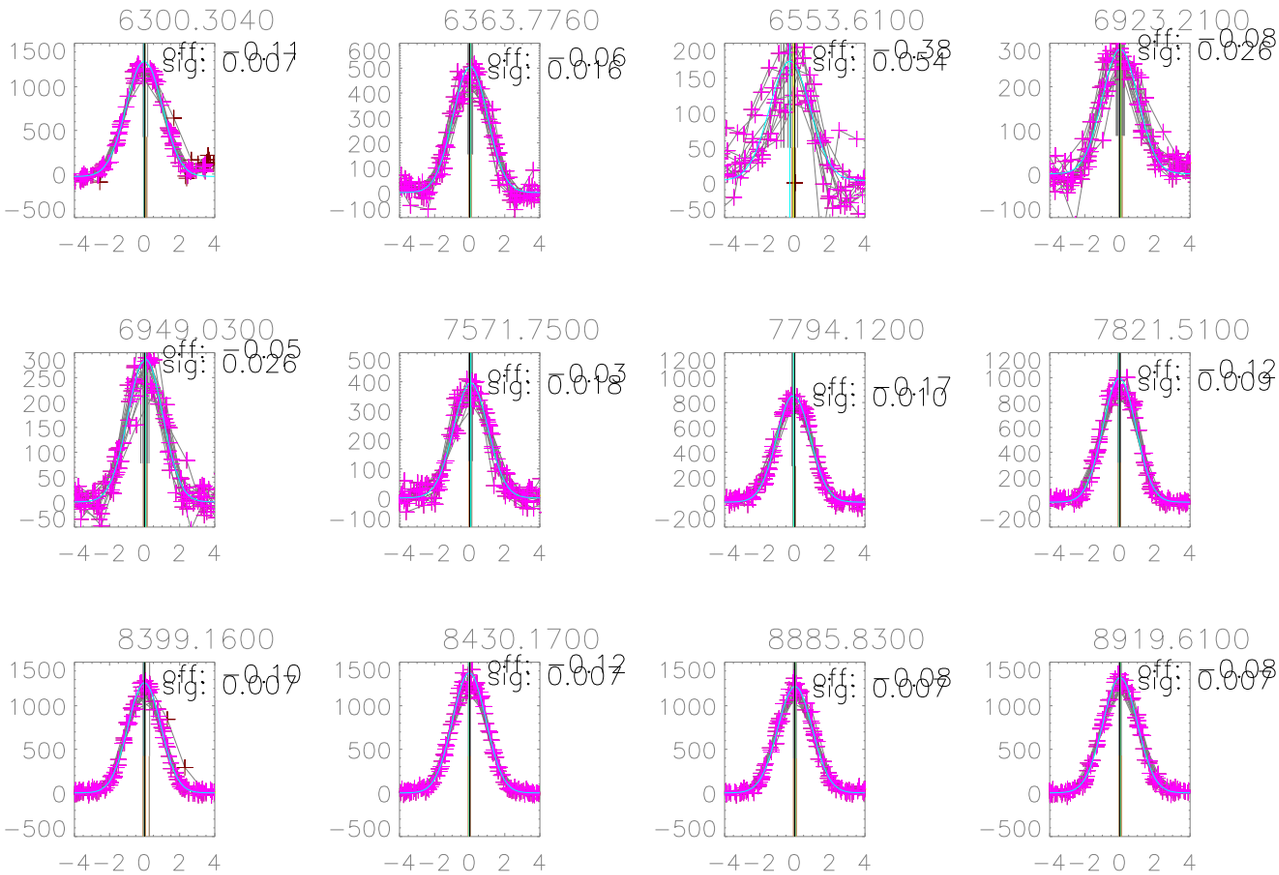

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r2-00050260.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
22.7
68.2
113.6
159.1

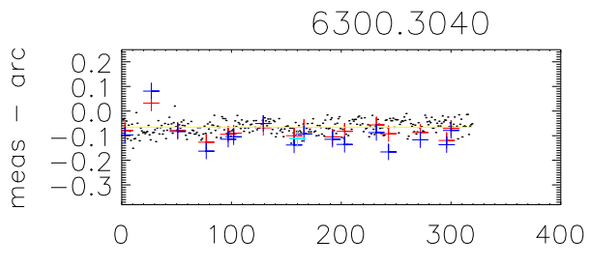

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r2-00050260.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 10.743
Max value = 101.485
Wed Mar 12 20:32:13 2008

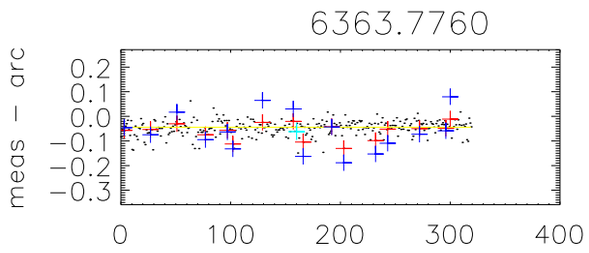

PLATE=2887 MJD=54520 Scattered Light on sdR-r2-00050260.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
11
33
55

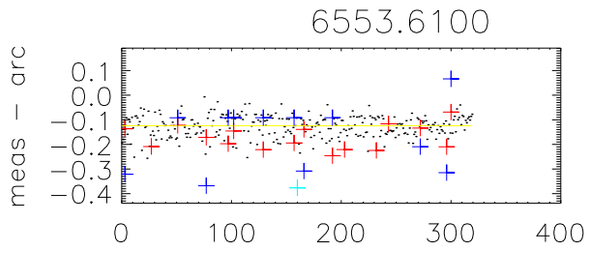

PLATE=2887 MJD=54520 Scattered Light on sdR-r2-00050260.fit
Brightness [electrons/pix]
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 10.268
Max value = 36.912
Wed Mar 12 20:34:24 2008

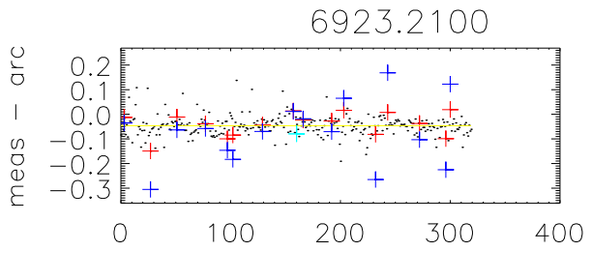

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-r2-00050260.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

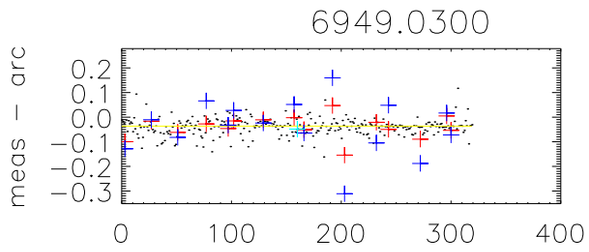

6300.3040
off: −0.11
sig: 0.007
6363.7760
off: −0.06
sig: 0.016
6553.6100
off: −0.38
sig: 0.054
6923.2100
off: −0.08
sig: 0.026
6949.0300
off: −0.05
sig: 0.026
7571.7500
off: −0.03
sig: 0.018
7794.1200
off: −0.17
sig: 0.010
7821.5100
off: −0.12
sig: 0.009
8399.1600
off: −0.10
sig: 0.007
8430.1700
off: −0.12
sig: 0.007
8885.8300
off: −0.08
sig: 0.007
8919.6100
off: −0.08
sig: 0.007

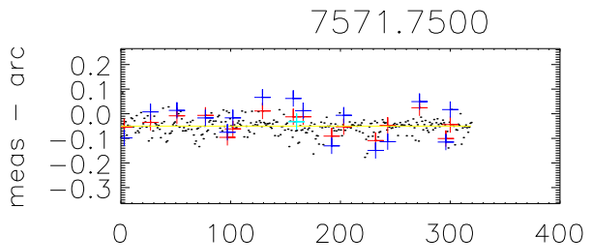

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

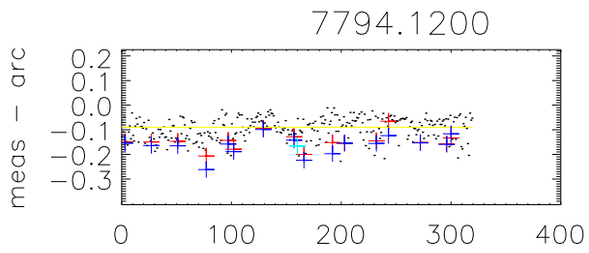

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

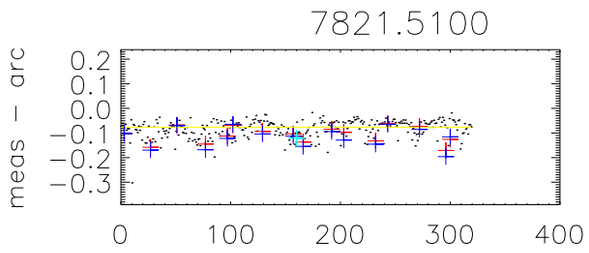

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

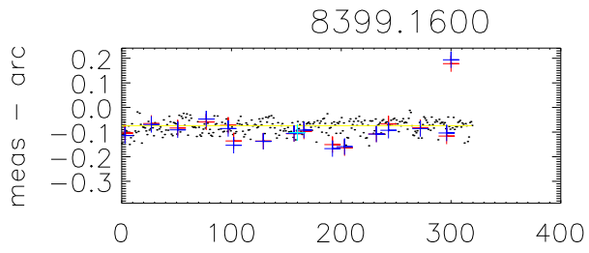

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

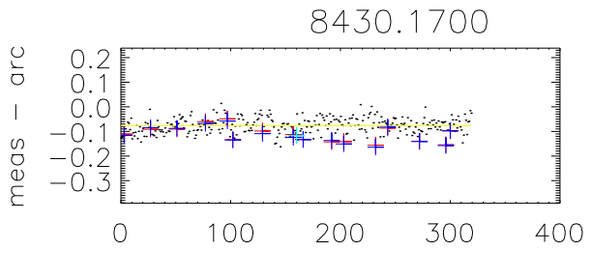

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

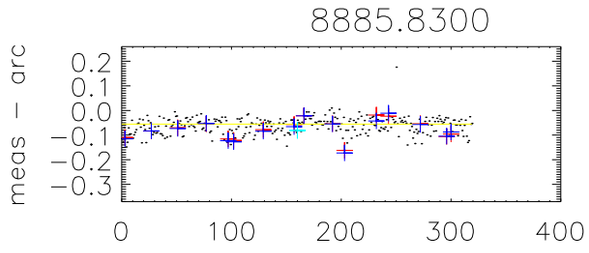

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

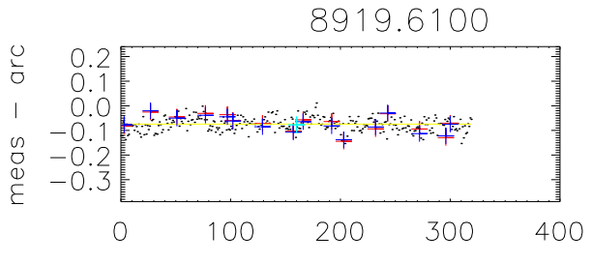

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

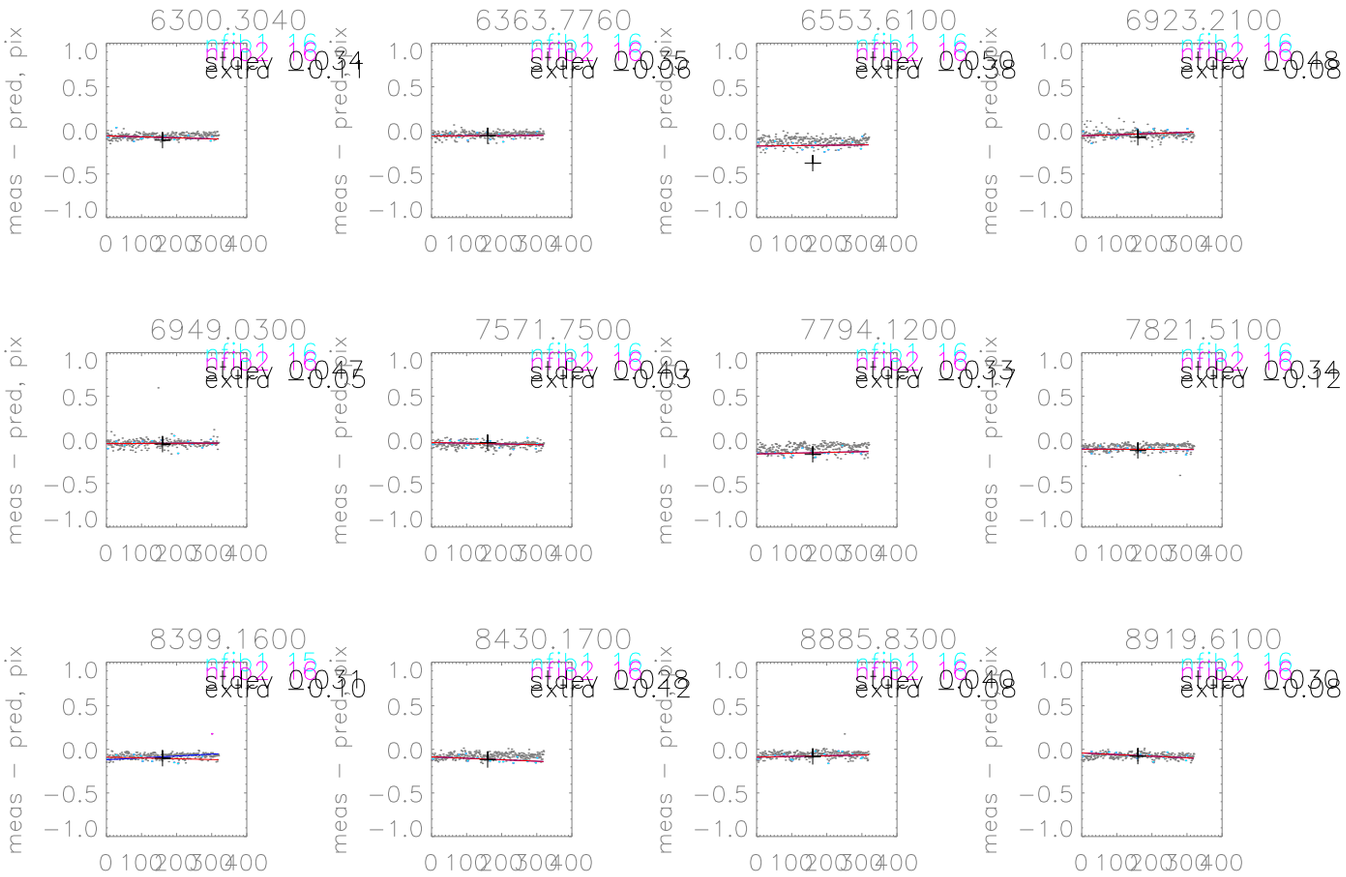

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

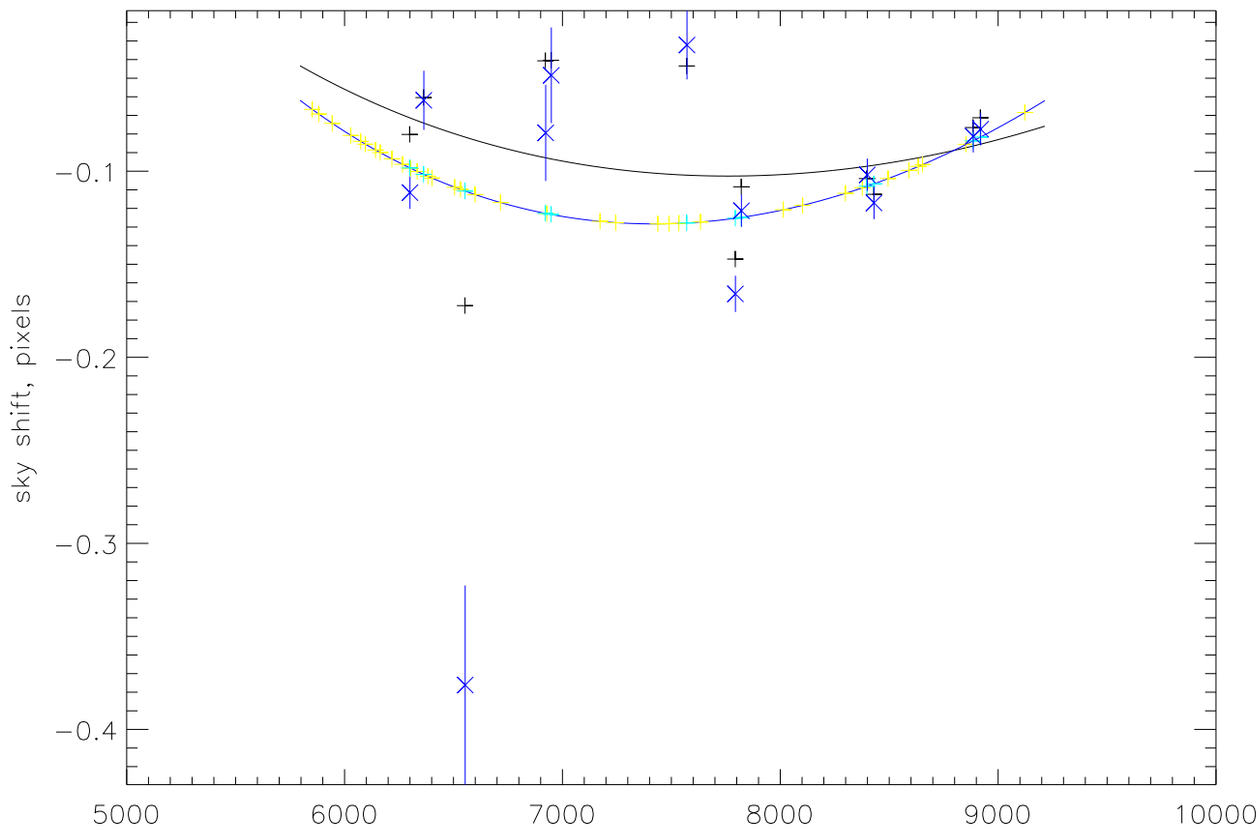

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

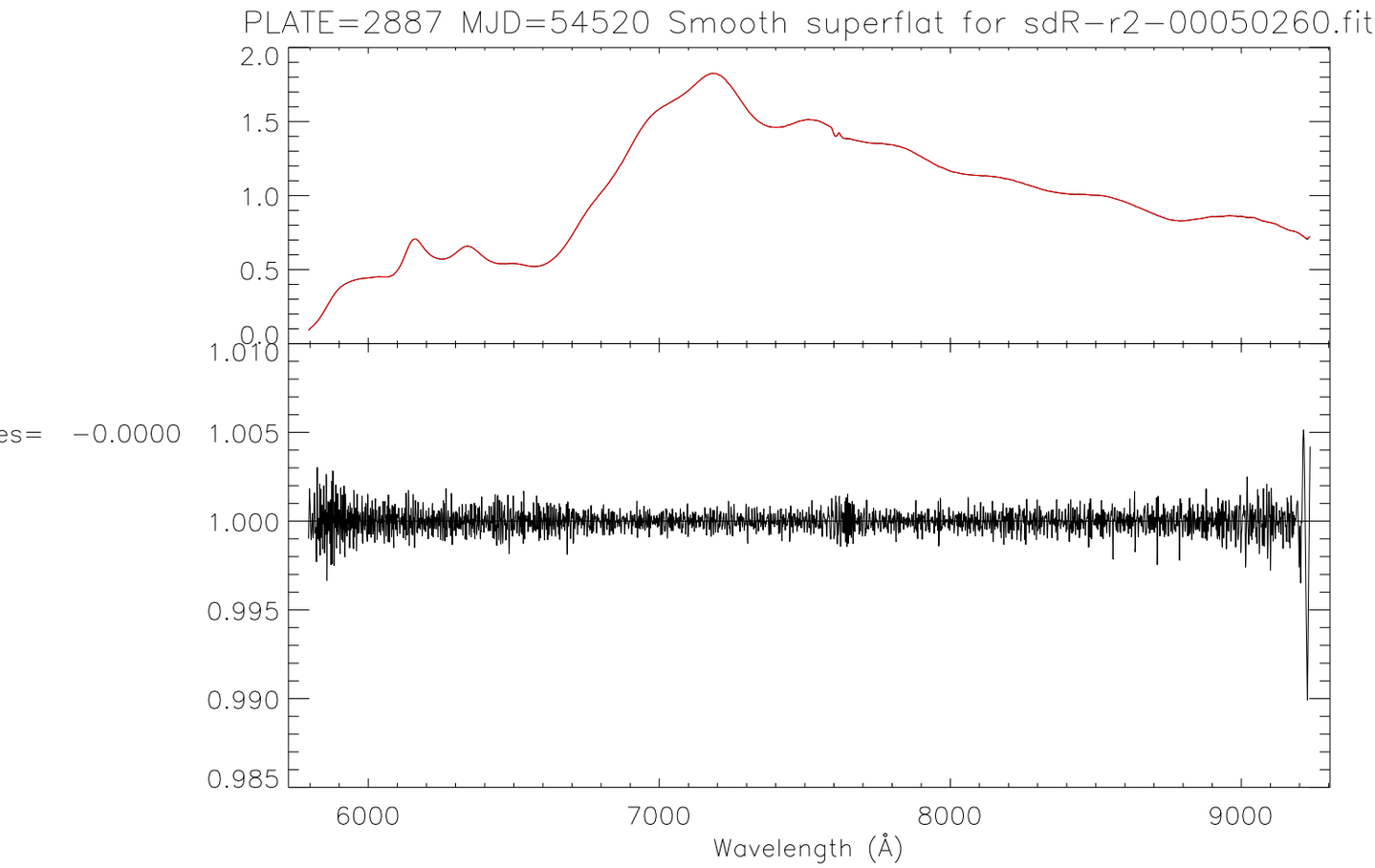

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

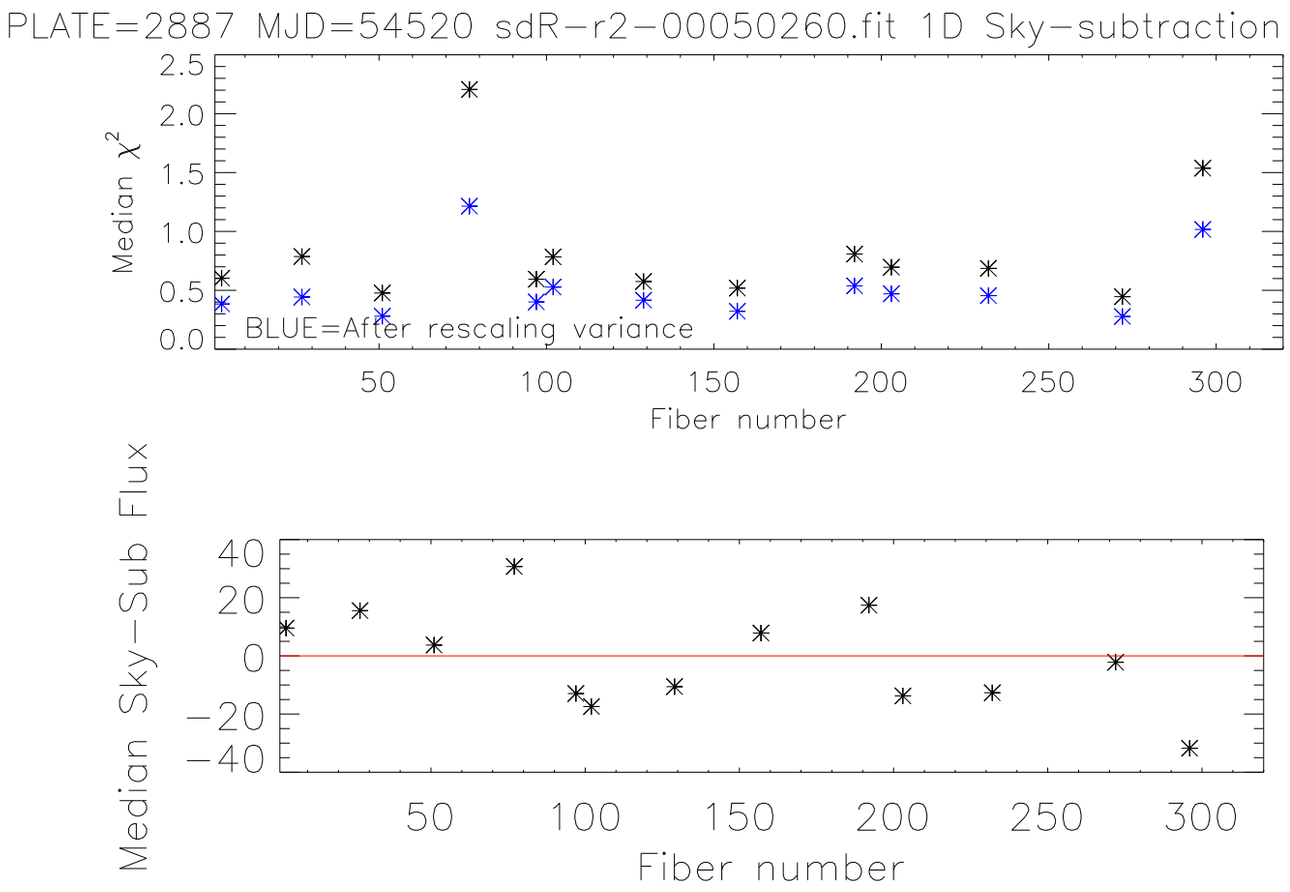

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

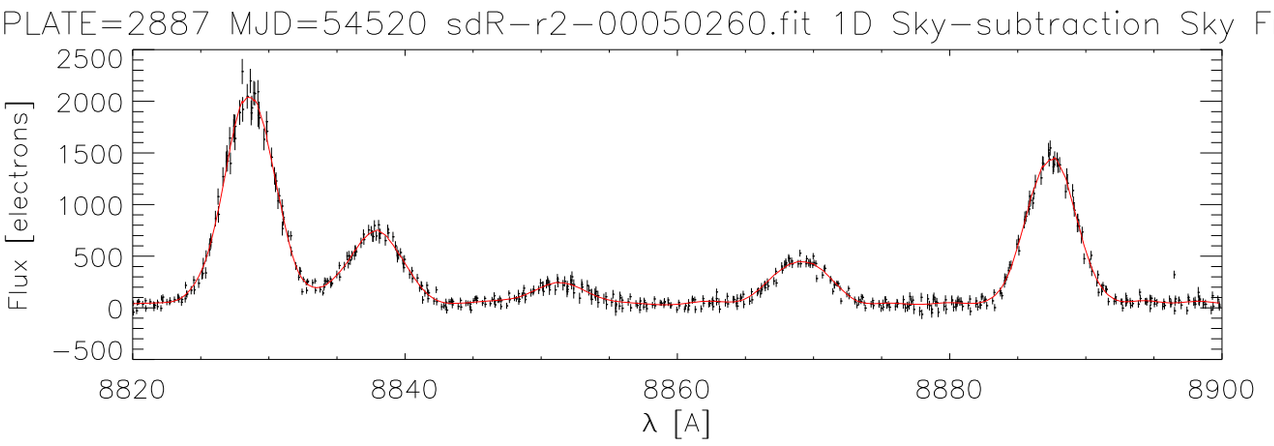

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

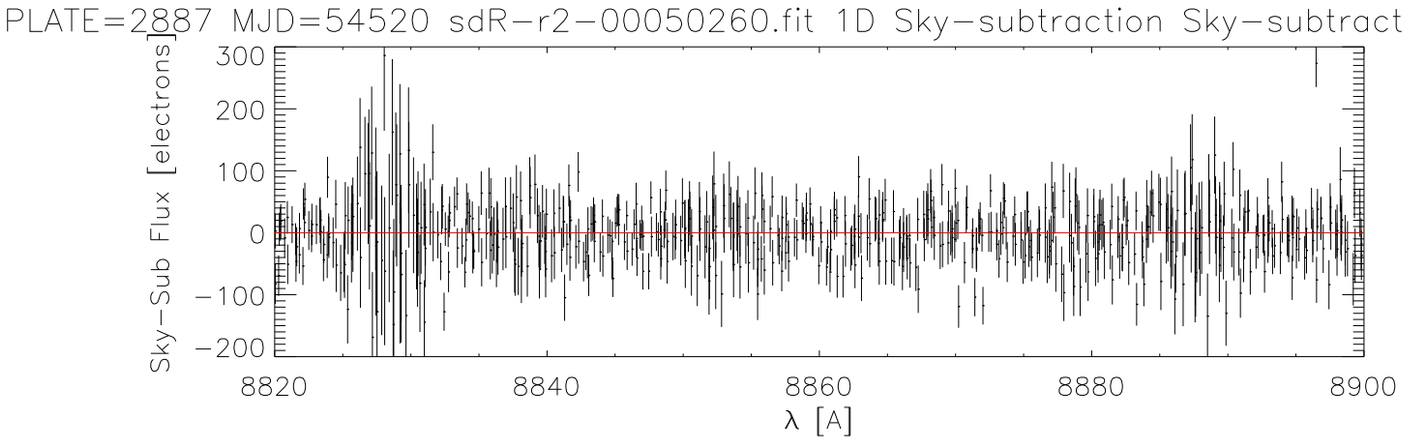

6300.3040
stdev 0.034
extra −0.01
6363.7760
stdev 0.032
extra −0.06
6553.6100
stdev 0.038
extra 0.08
6923.2100
stdev 0.048
extra −0.08
6949.0300
stdev 0.047
extra −0.05
7571.7500
stdev 0.040
extra −0.03
7794.1200
stdev 0.033
extra −0.17
7821.5100
stdev 0.034
extra −0.12
8399.1600
stdev 0.031
extra −0.10
8430.1700
stdev 0.028
extra −0.12
8885.8300
stdev 0.040
extra −0.08
8919.6100
stdev 0.039
extra −0.08
meas − pred, pix

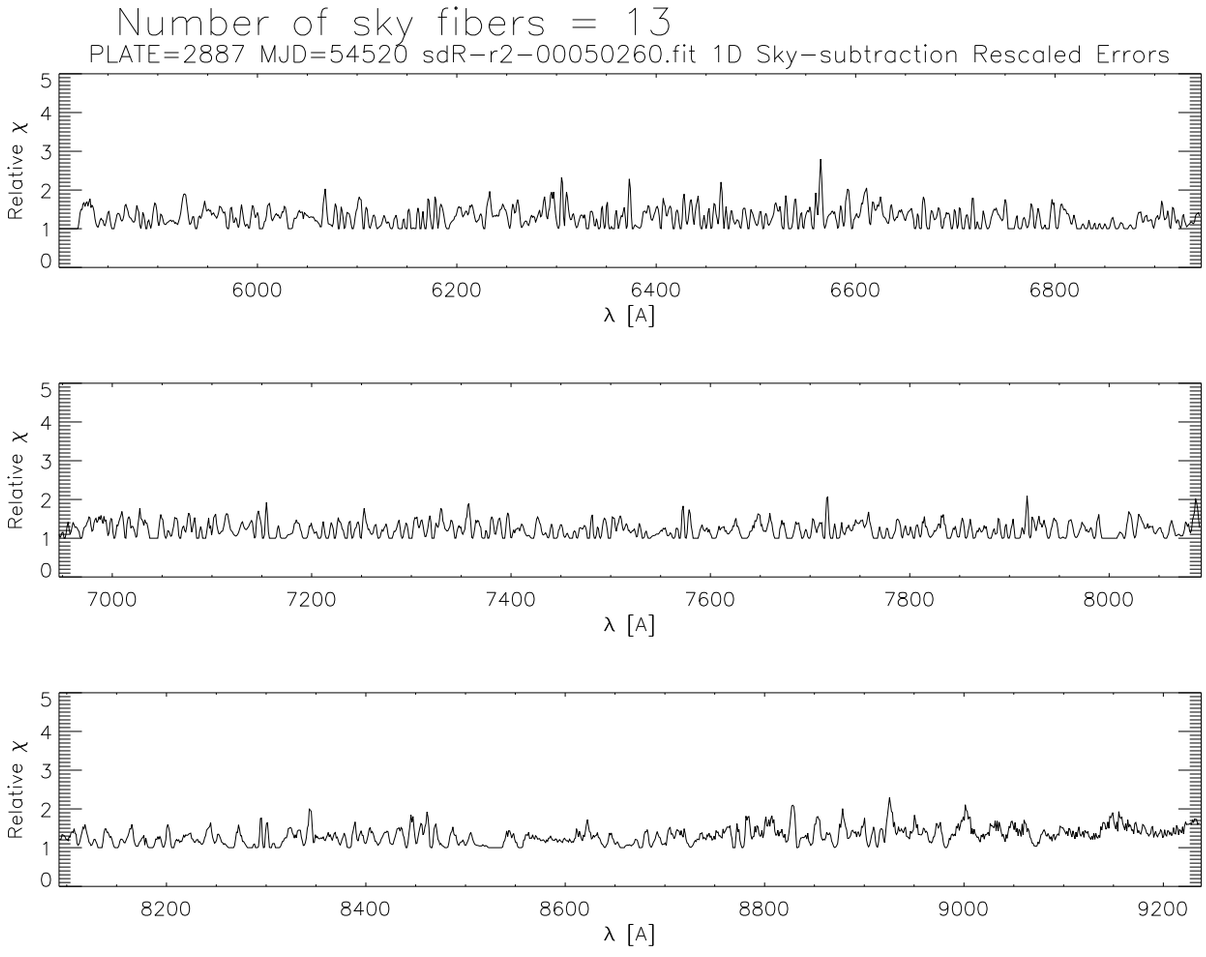

sky shift, pixels
−0.1
−0.2
−0.3
−0.4
5000
6000
7000
8000
9000
10000

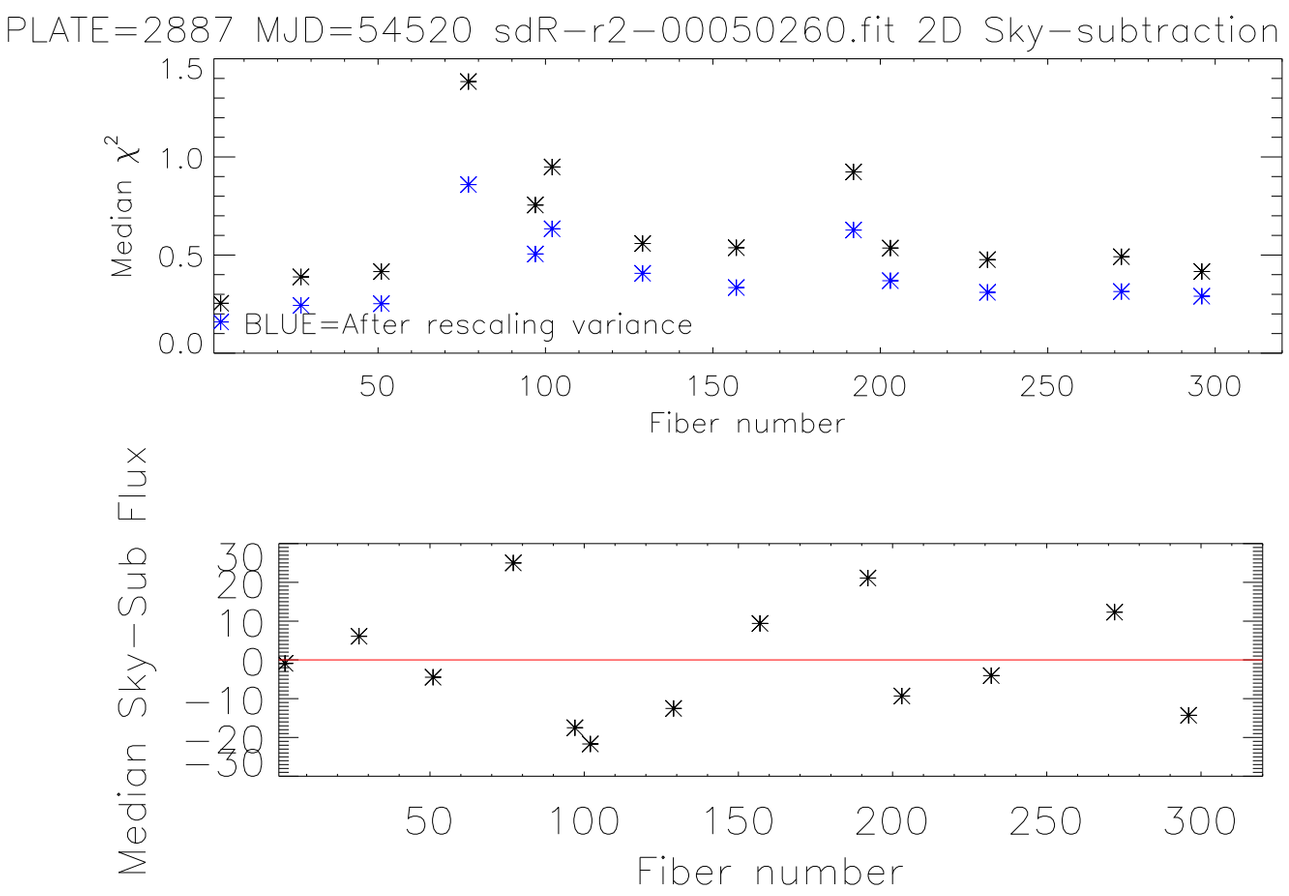

PLATE=2887 MJD=54520 Smooth superflat for sdR-r2-00050260.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)

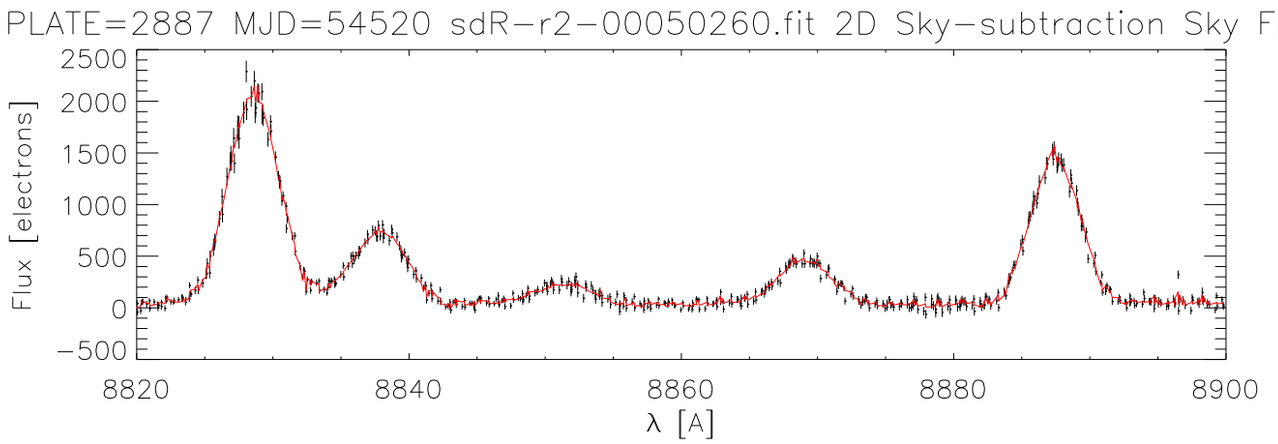

PLATE=2887 MJD=54520 sdR-r2-00050260.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

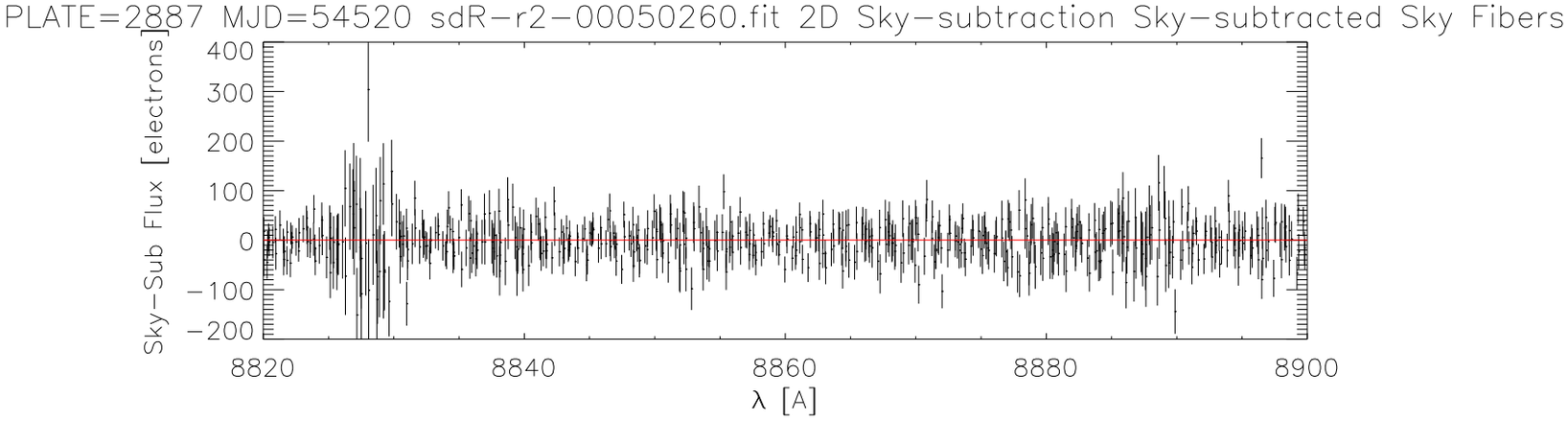

PLATE=2887 MJD=54520 sdR-r2-00050260.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

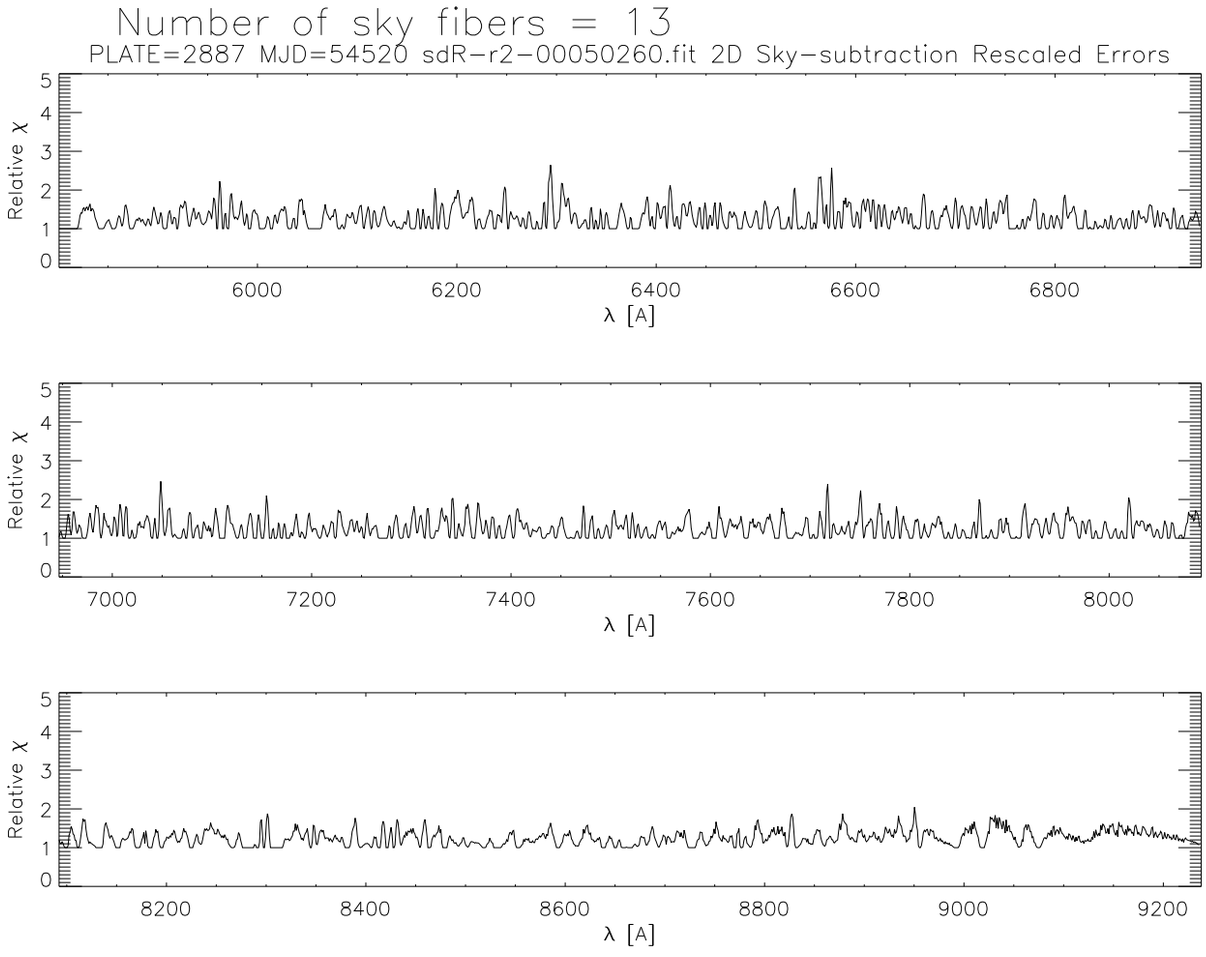

PLATE=2887 MJD=54520 sdR-r2-00050260.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

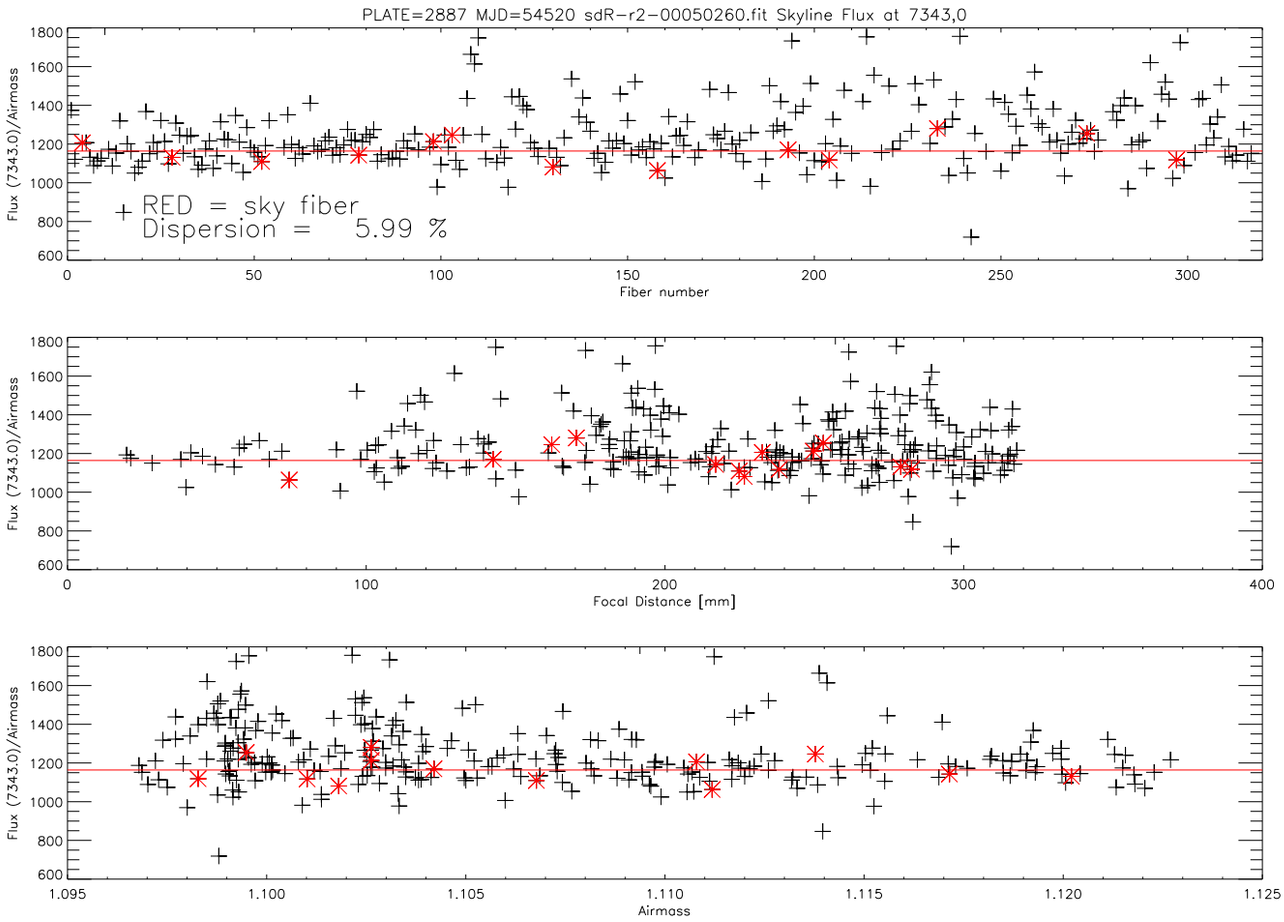

Number of sky fibers = 13
PLATE=2887 MJD=54520 sdR-r2-00050260.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

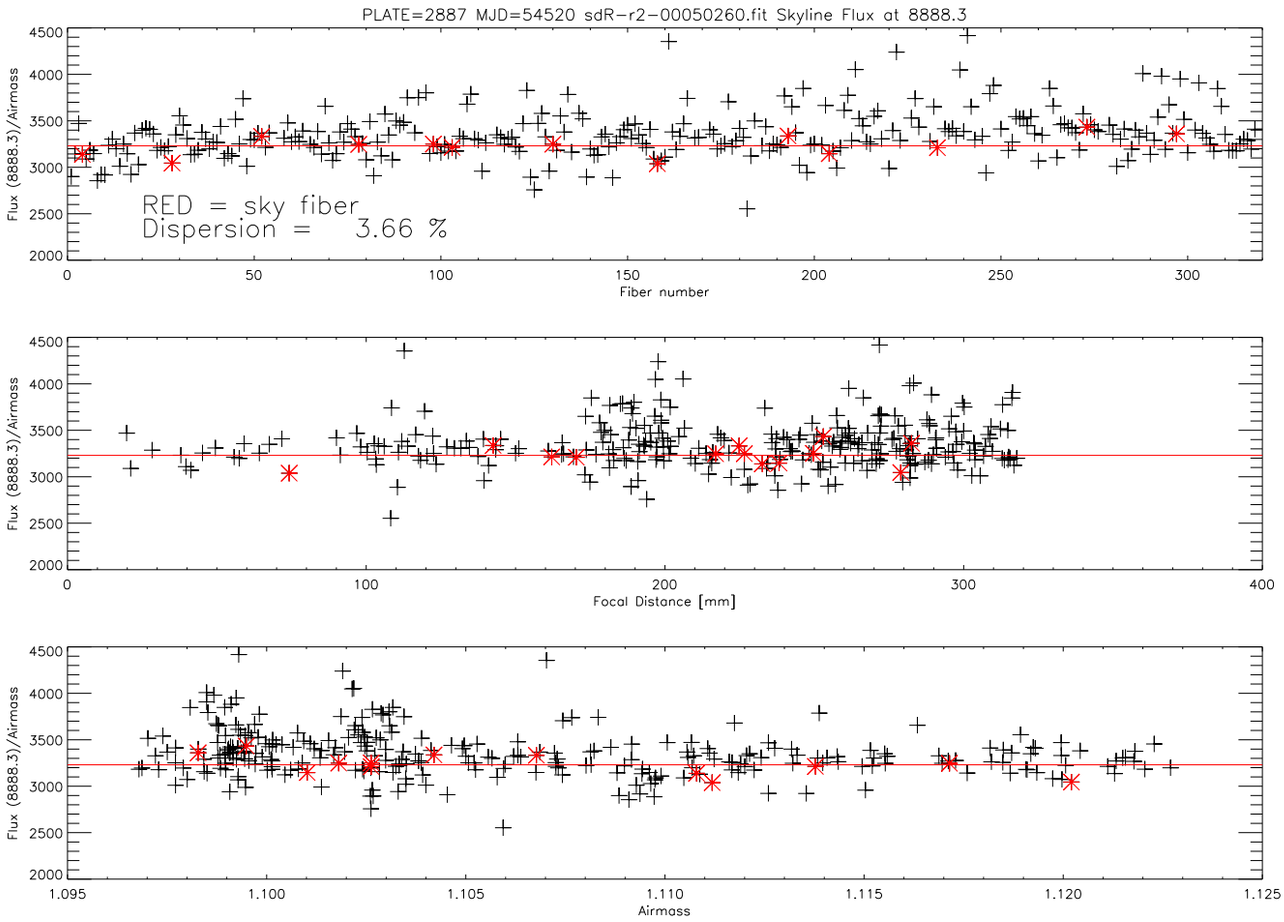

PLATE=2887 MJD=54520 sdR-r2-00050260.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

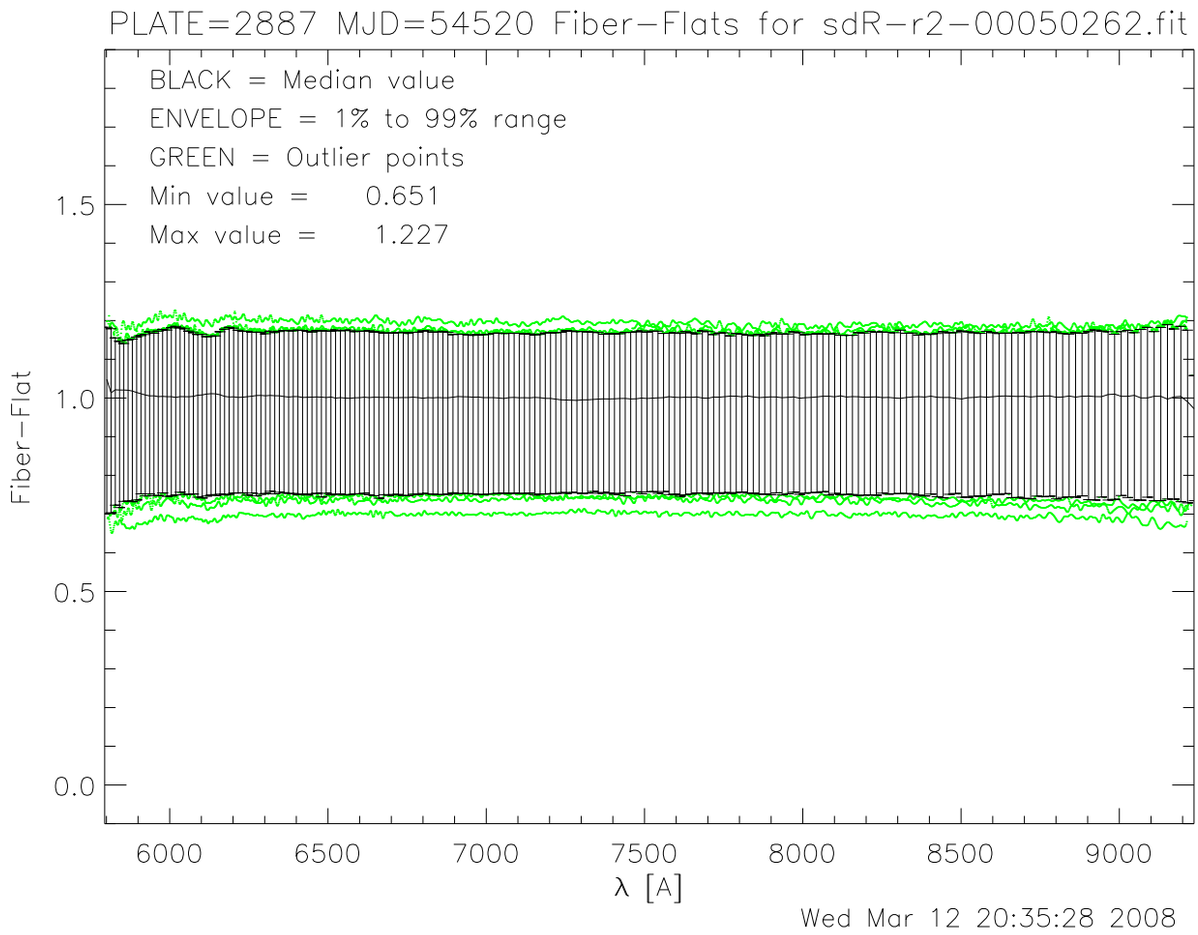

PLATE=2887 MJD=54520 sdR-r2-00050260.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
-500
8820
8840
8860
8880
8900
λ [A]

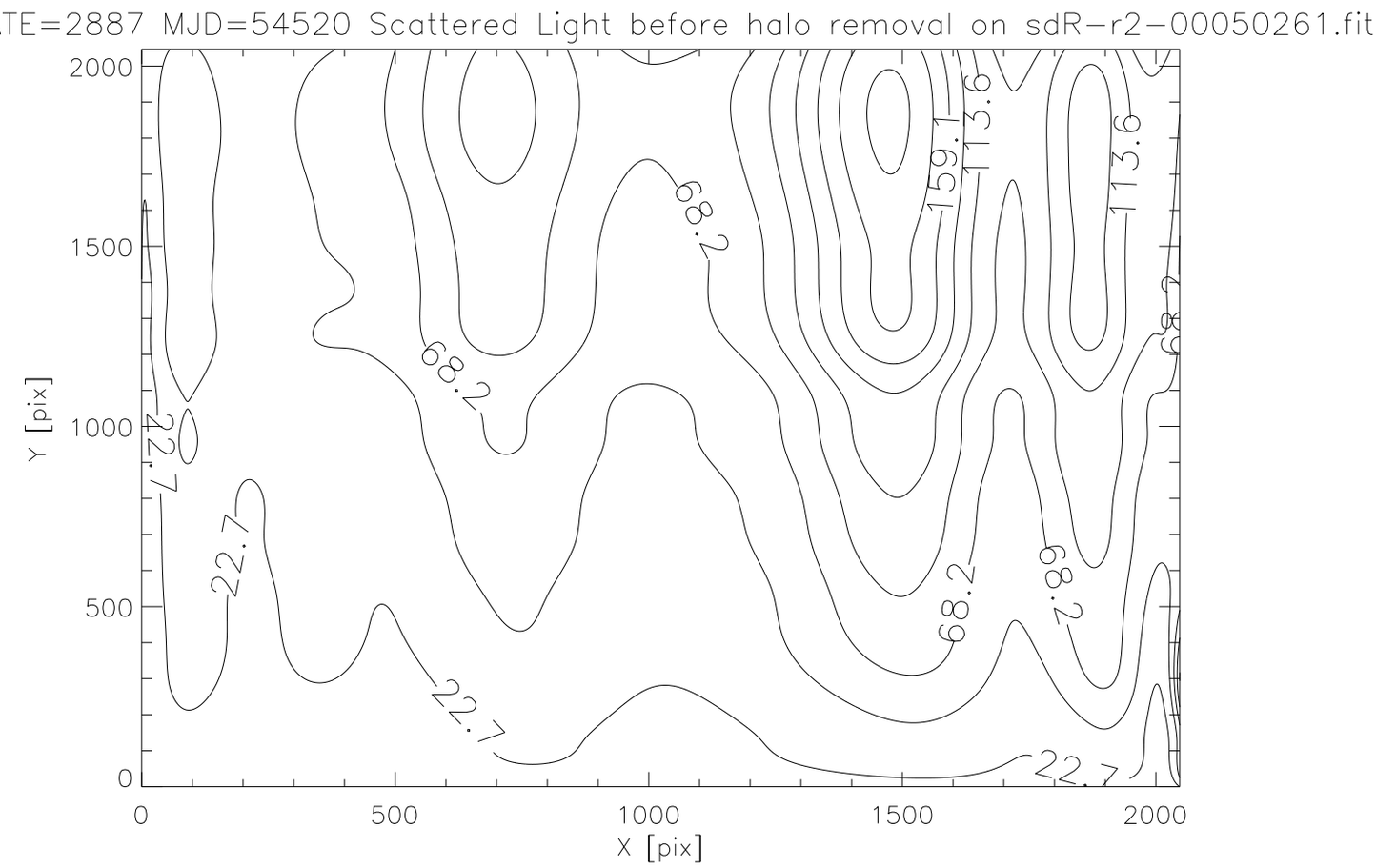

PLATE=2887 MJD=54520 sdR-r2-00050260.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
400
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

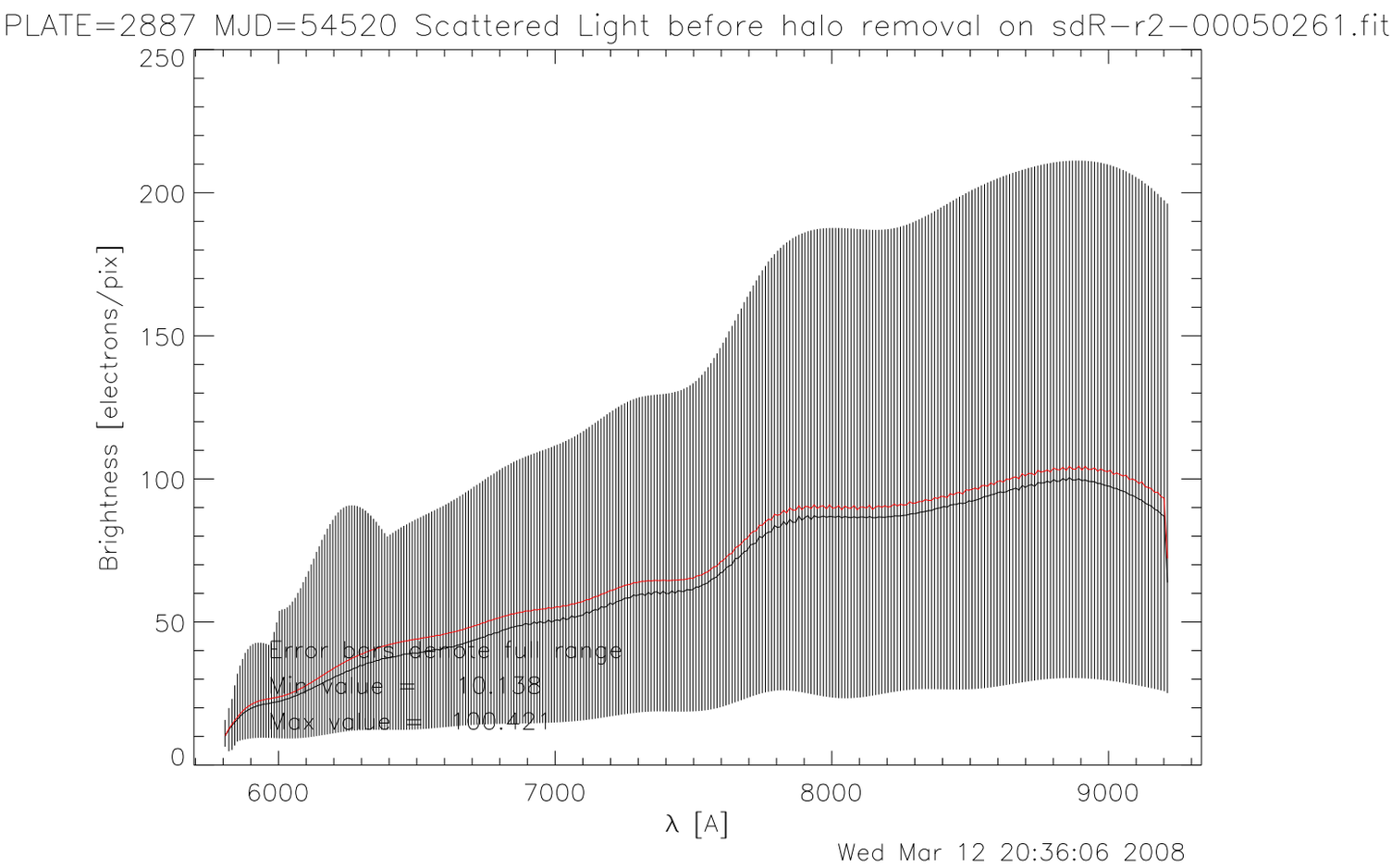

Number of sky fibers = 13
PLATE=2887 MJD=54520 sdR-r2-00050260.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

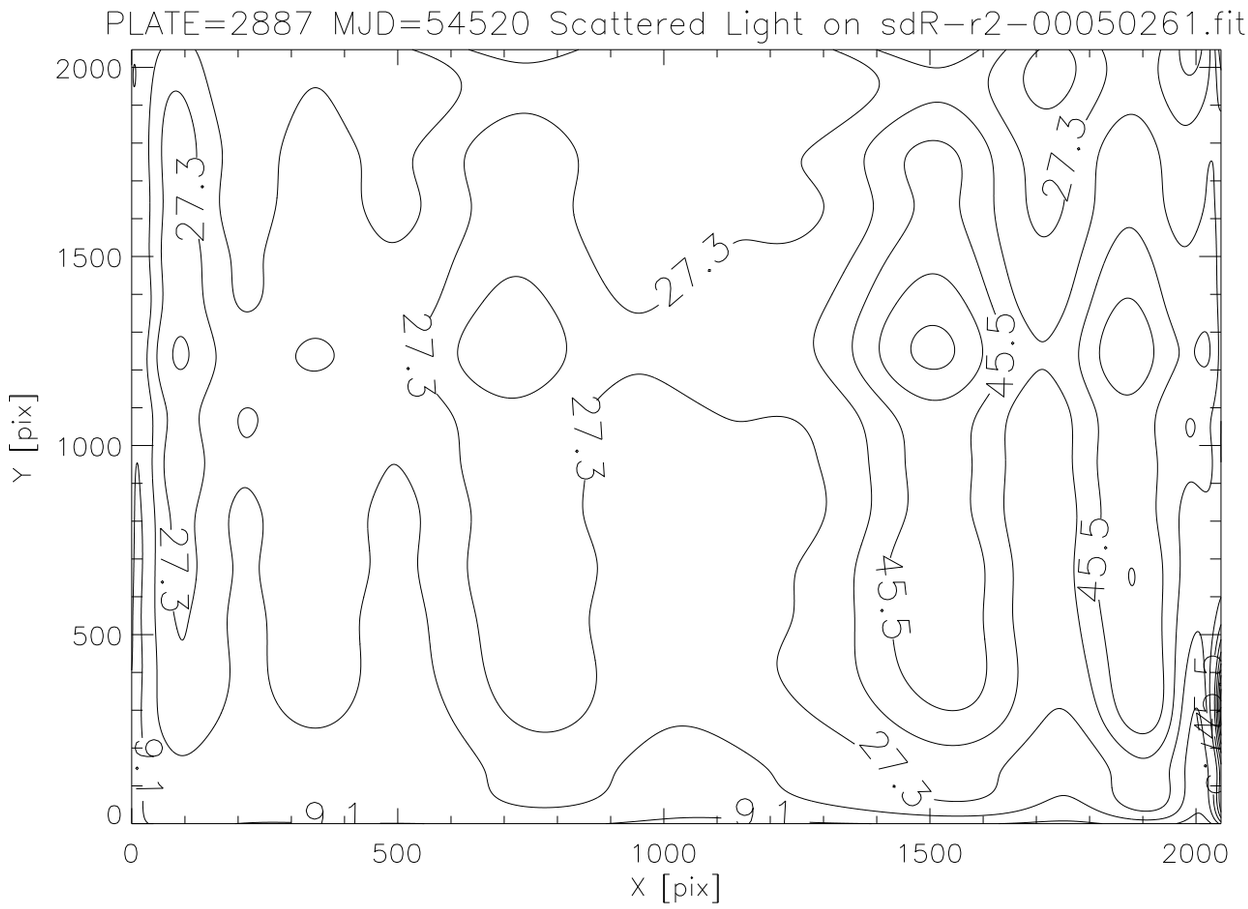

PLATE=2887 MJD=54520 sdR-r2-00050260.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 5.99 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass

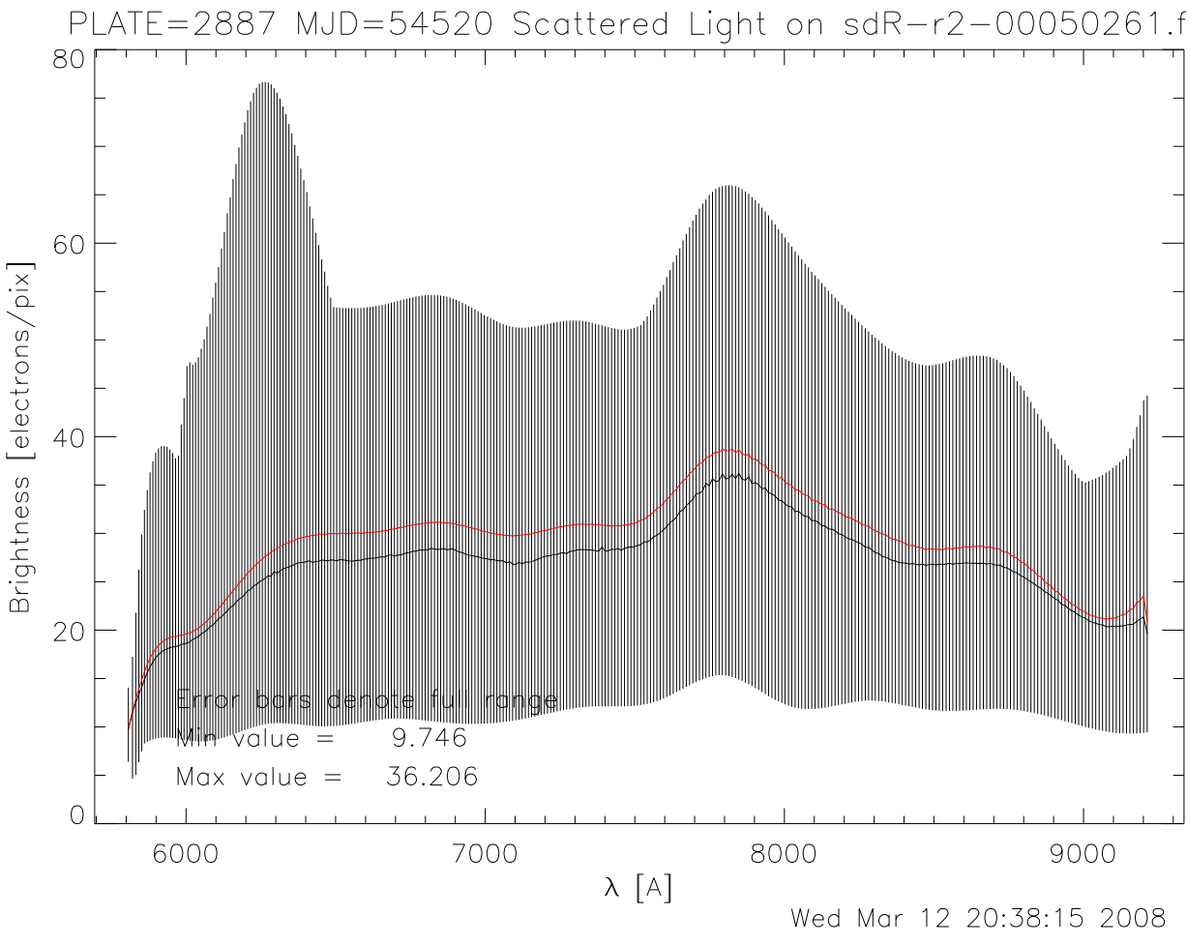

PLATE=2887 MJD=54520 sdR-r2-00050260.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 3.66 %
Fiber number
Focal Distance [mm]
Airmass

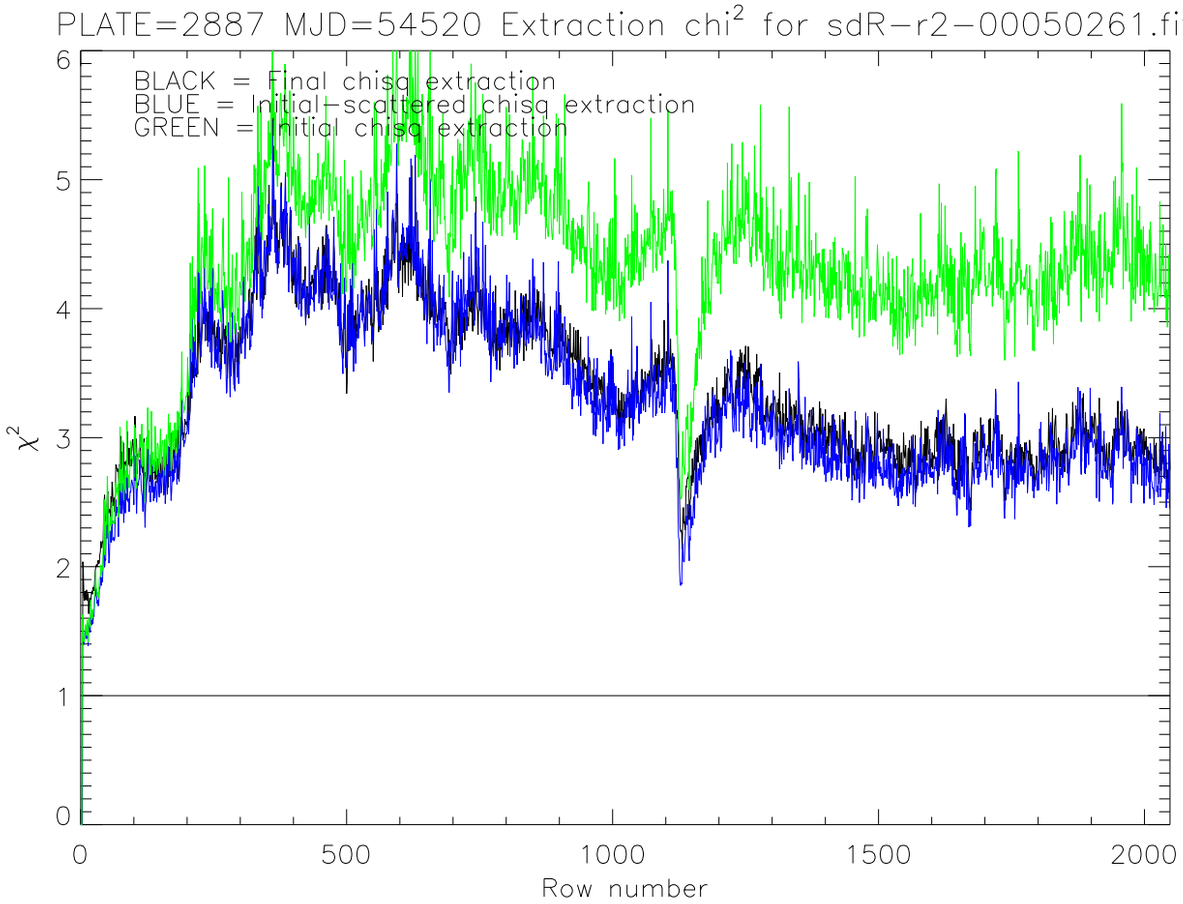

PLATE=2887 MJD=54520 Fiber-Flats for sdR-r2-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.651
Max value = 1.227
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 20:35:28 2008

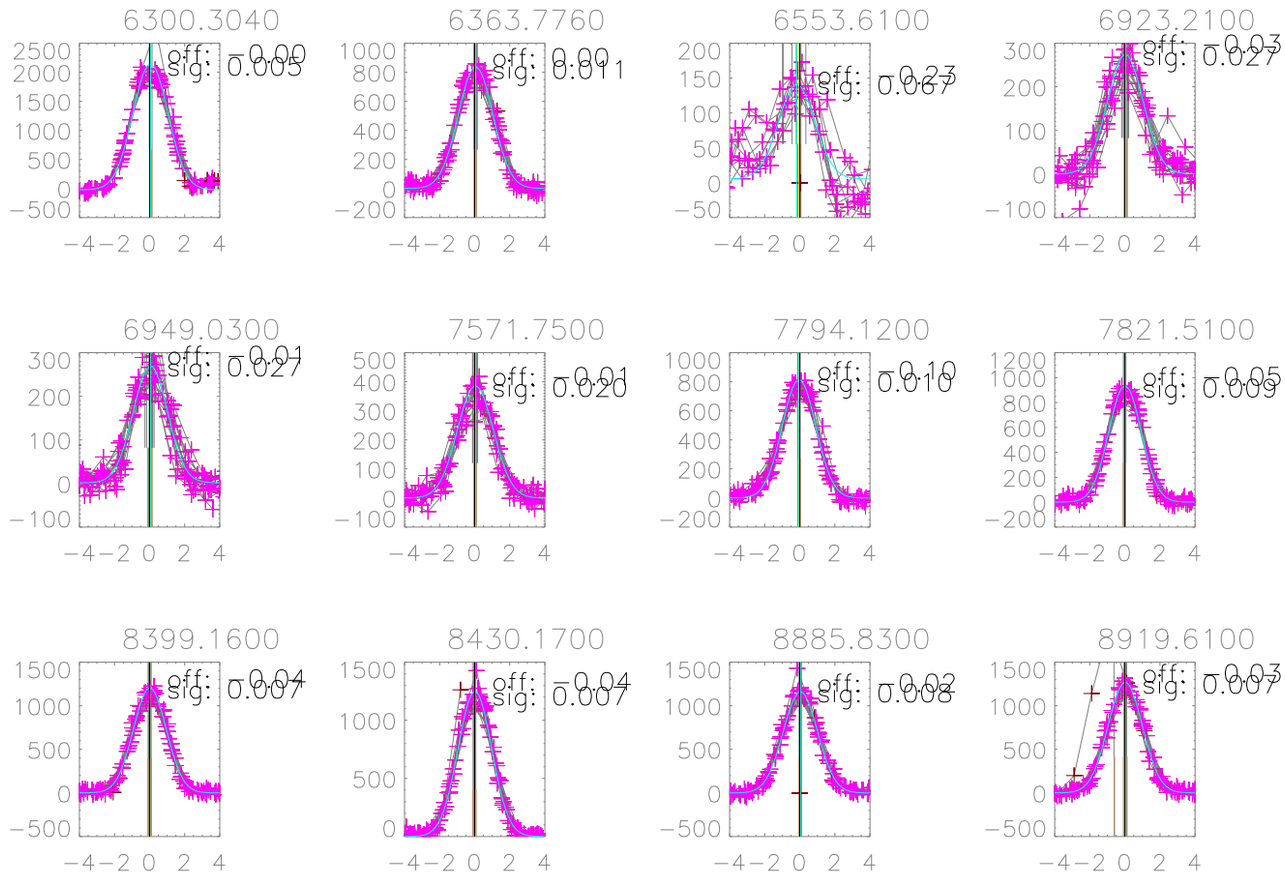

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r2-00050261.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
22.7
68.2
113.6
159.1

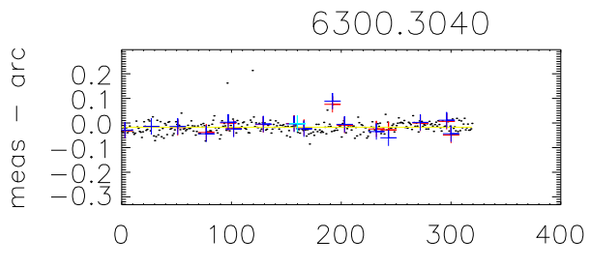

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r2-00050261.fit
Brightness [electrons/pix]
λ [A]
Error bars: error in range
Min value = 10.138
Max value = 100.421
Wed Mar 12 20:36:06 2008

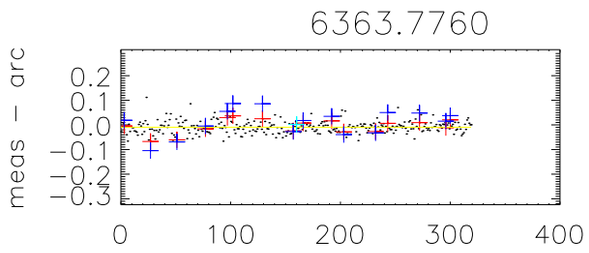

PLATE=2887 MJD=54520 Scattered Light on sdR-r2-00050261.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
27.3
45.5
9.1

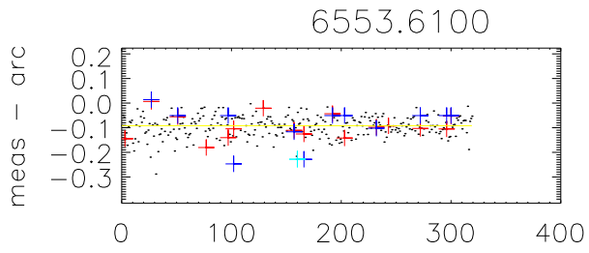

PLATE=2887 MJD=54520 Scattered Light on sdR-r2-00050261.fit
Brightness [electrons/pix]
80
60
40
20
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 9.746
Max value = 36.206
Wed Mar 12 20:38:15 2008

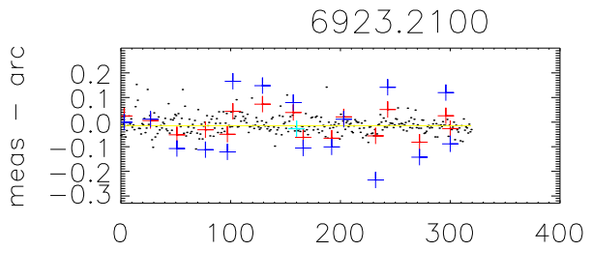

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-r2-00050261.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
Row number
0
1
2
3
4
5
6
0
500
1000
1500
2000

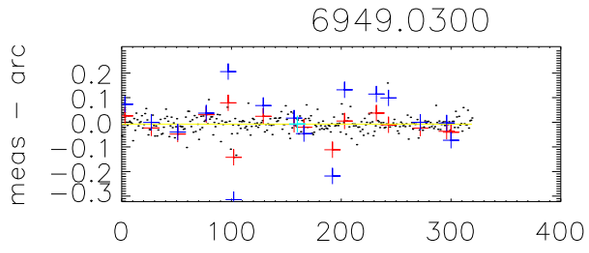

6300.3040
off: −0.00
sig: 0.005
6363.7760
off: 0.00
sig: 0.011
6553.6100
off: −0.23
sig: 0.067
6923.2100
off: −0.03
sig: 0.027
6949.0300
off: −0.01
sig: 0.027
7571.7500
off: −0.01
sig: 0.020
7794.1200
off: −0.10
sig: 0.010
7821.5100
off: −0.05
sig: 0.009
8399.1600
off: −0.04
sig: 0.007
8430.1700
off: −0.04
sig: 0.007
8885.8300
off: −0.02
sig: 0.008
8919.6100
off: −0.03
sig: 0.007

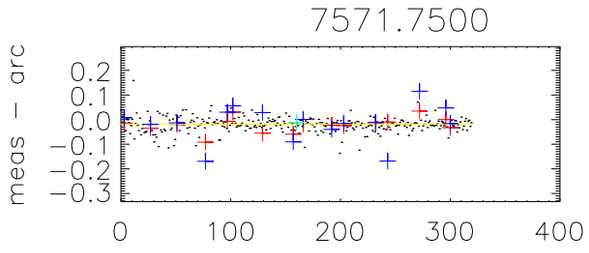

6300.3040
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

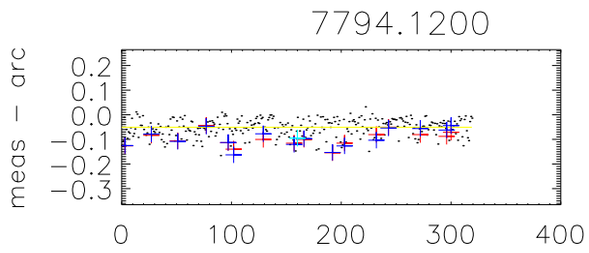

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

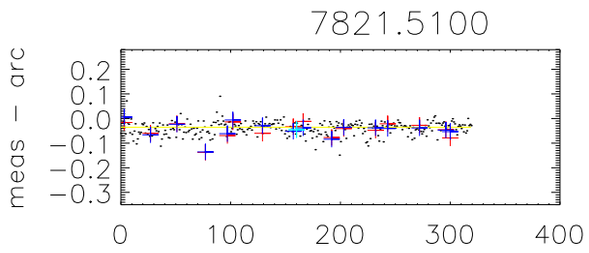

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

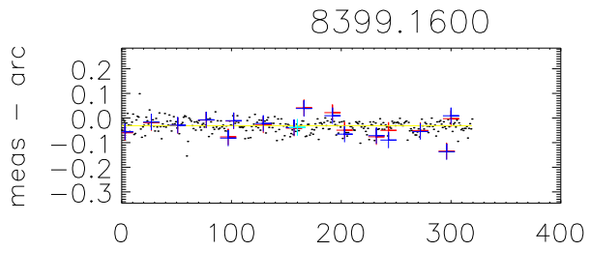

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

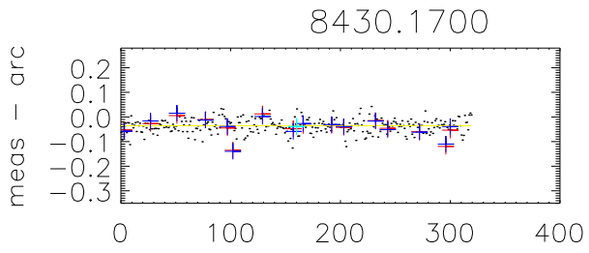

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

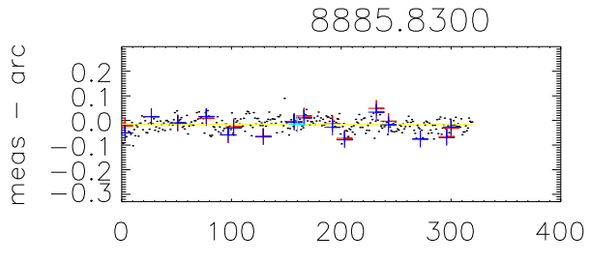

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

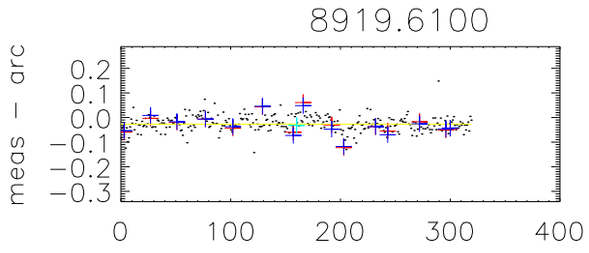

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

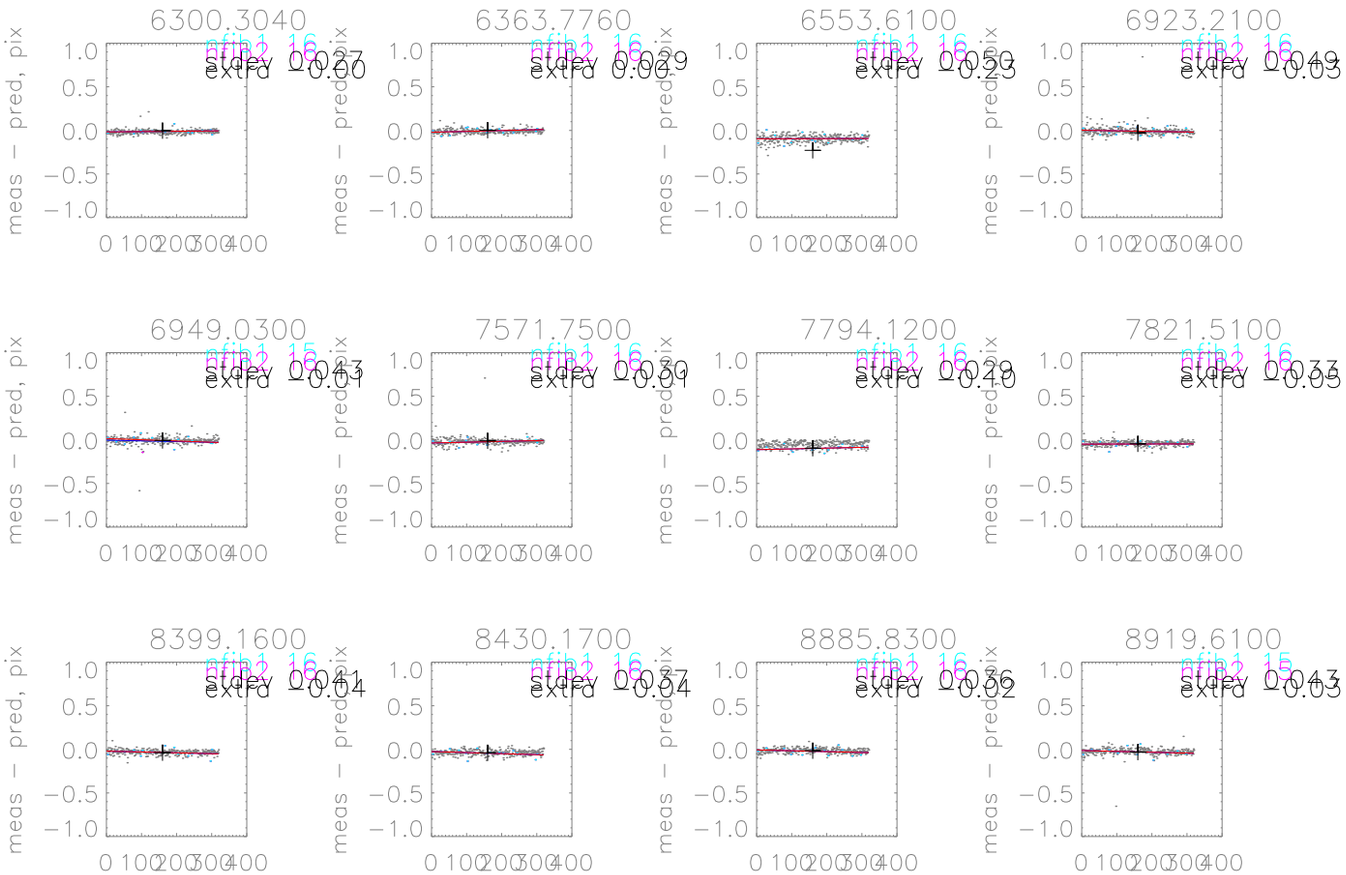

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

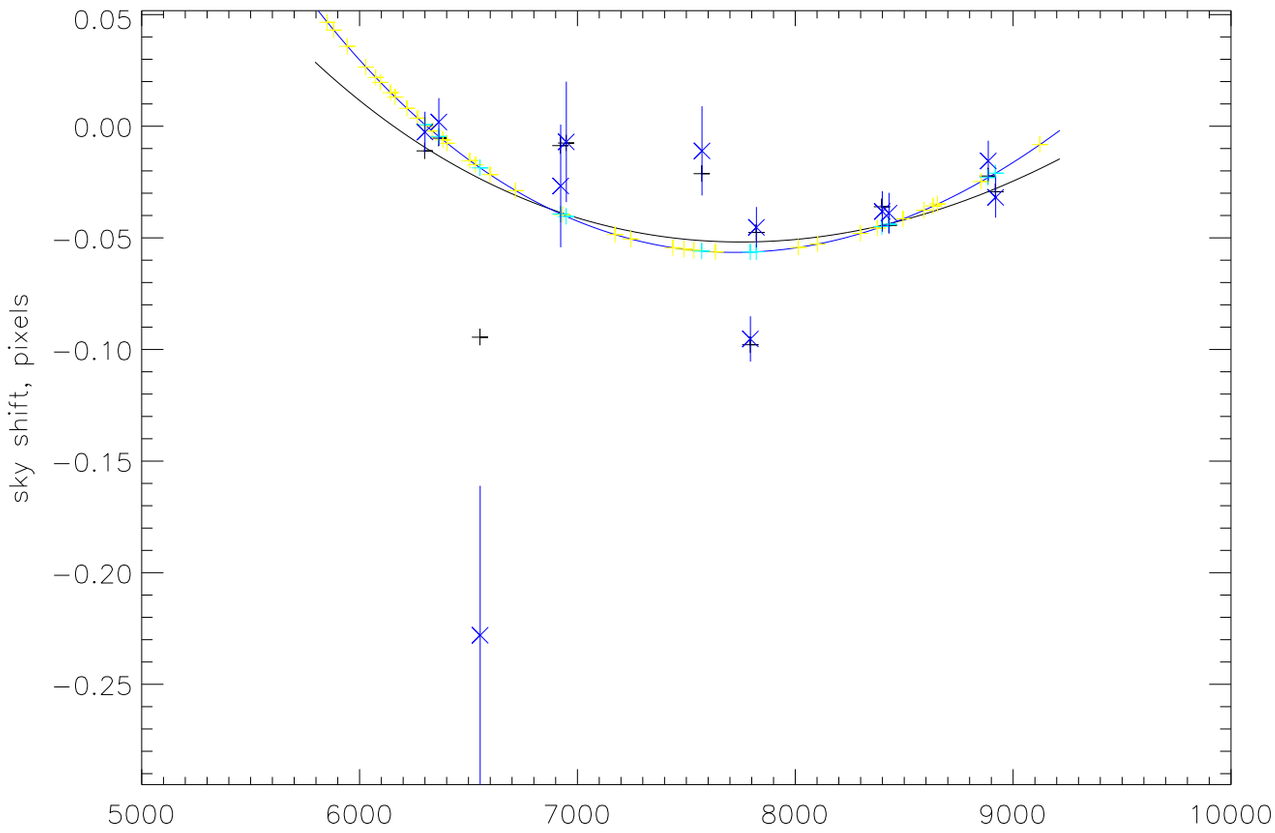

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

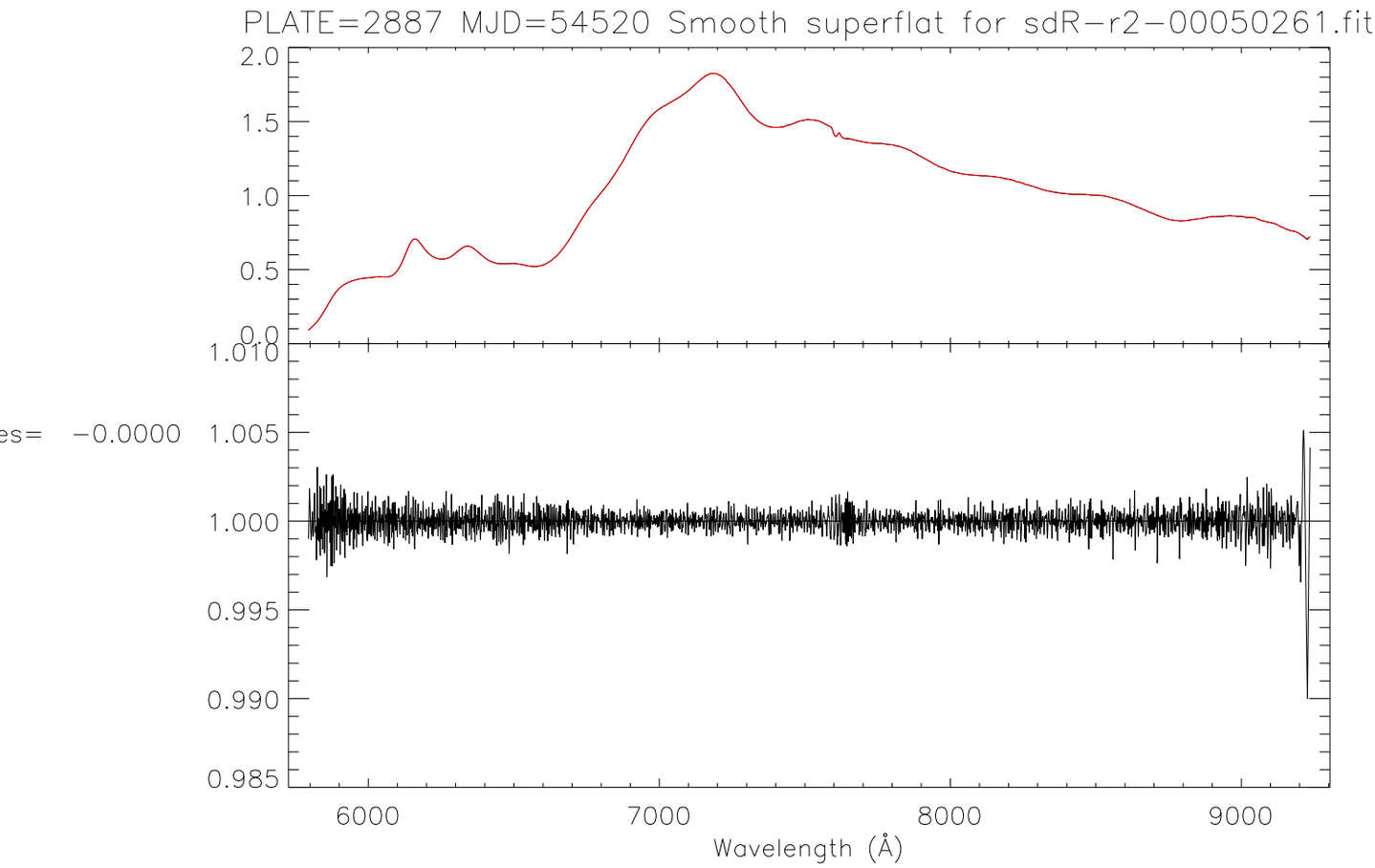

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

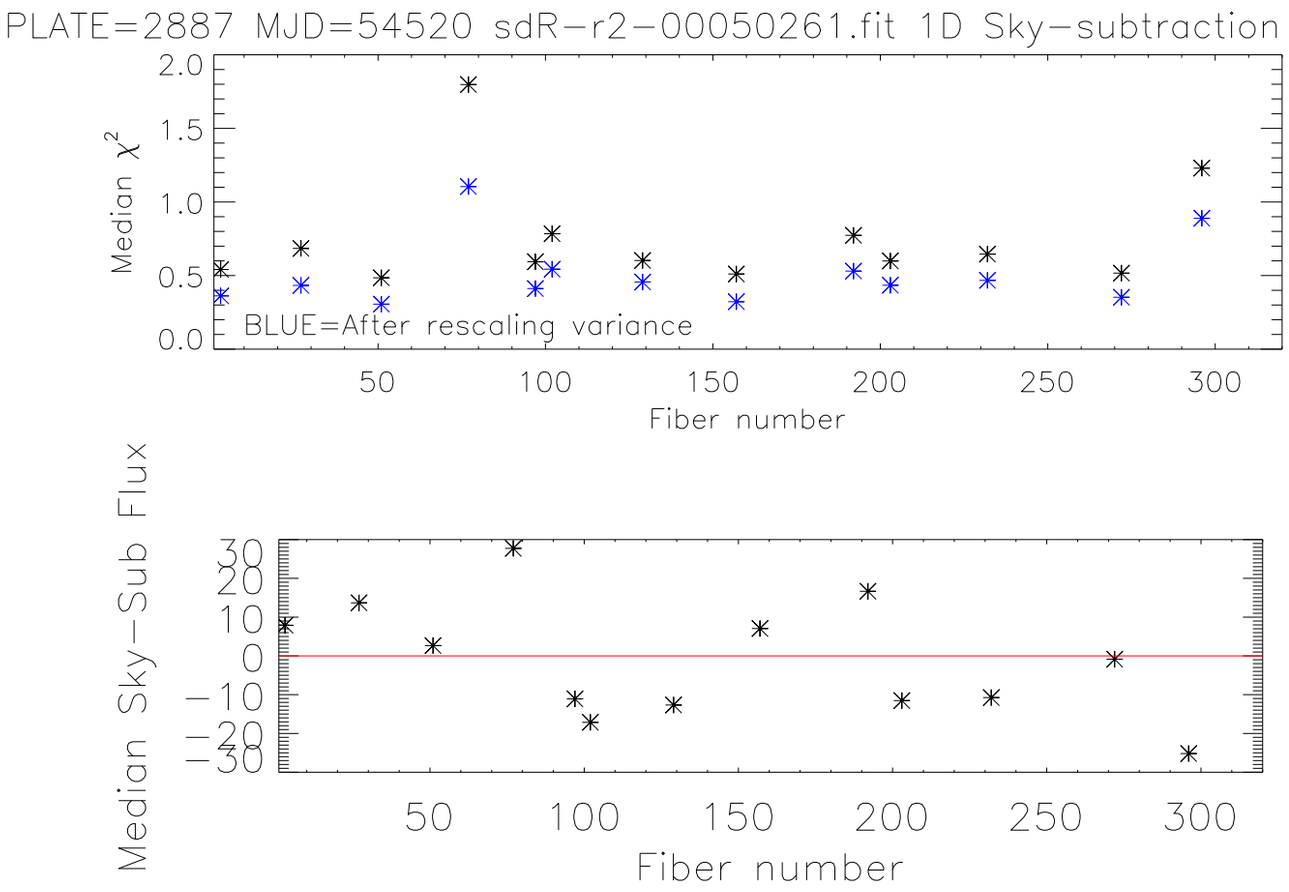

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

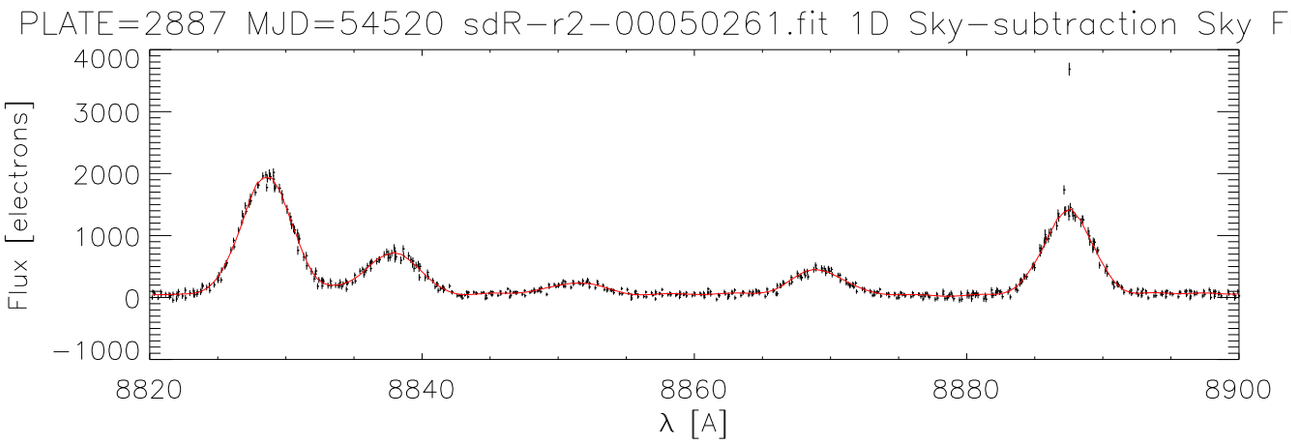

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

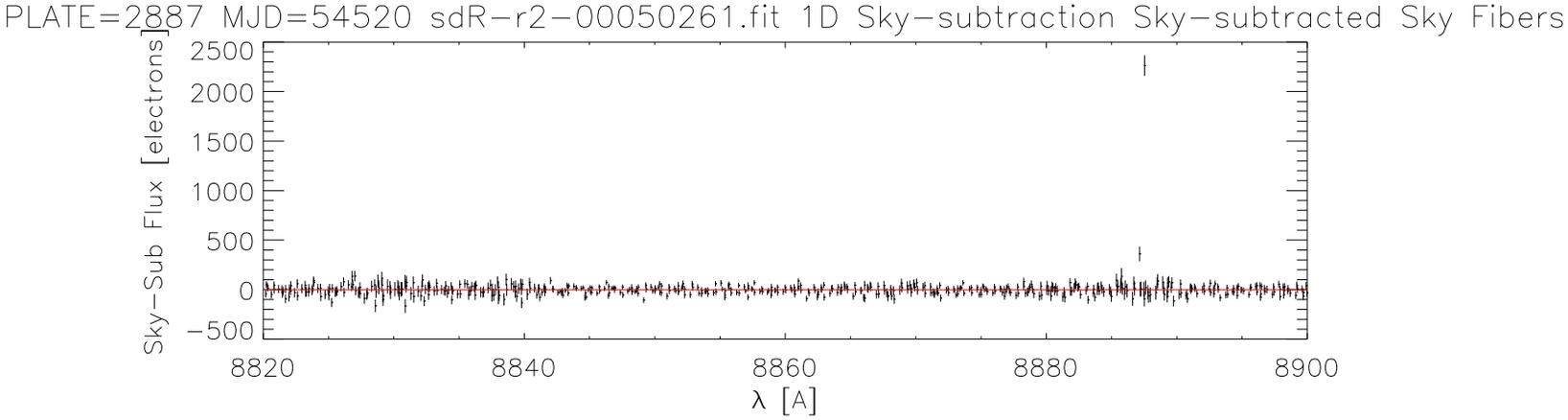

6300.3040
stdev 0.027
extra −0.00
6363.7760
stdev 0.029
extra 0.004
6553.6100
stdev 0.020
extra −0.23
6923.2100
stdev 0.049
extra −0.03
6949.0300
stdev 0.043
extra −0.01
7571.7500
stdev 0.030
extra −0.01
7794.1200
stdev 0.028
extra −0.10
7821.5100
stdev 0.033
extra −0.05
8399.1600
stdev 0.041
extra −0.04
8430.1700
stdev 0.037
extra −0.04
8885.8300
stdev 0.036
extra −0.02
8919.6100
stdev 0.043
extra −0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

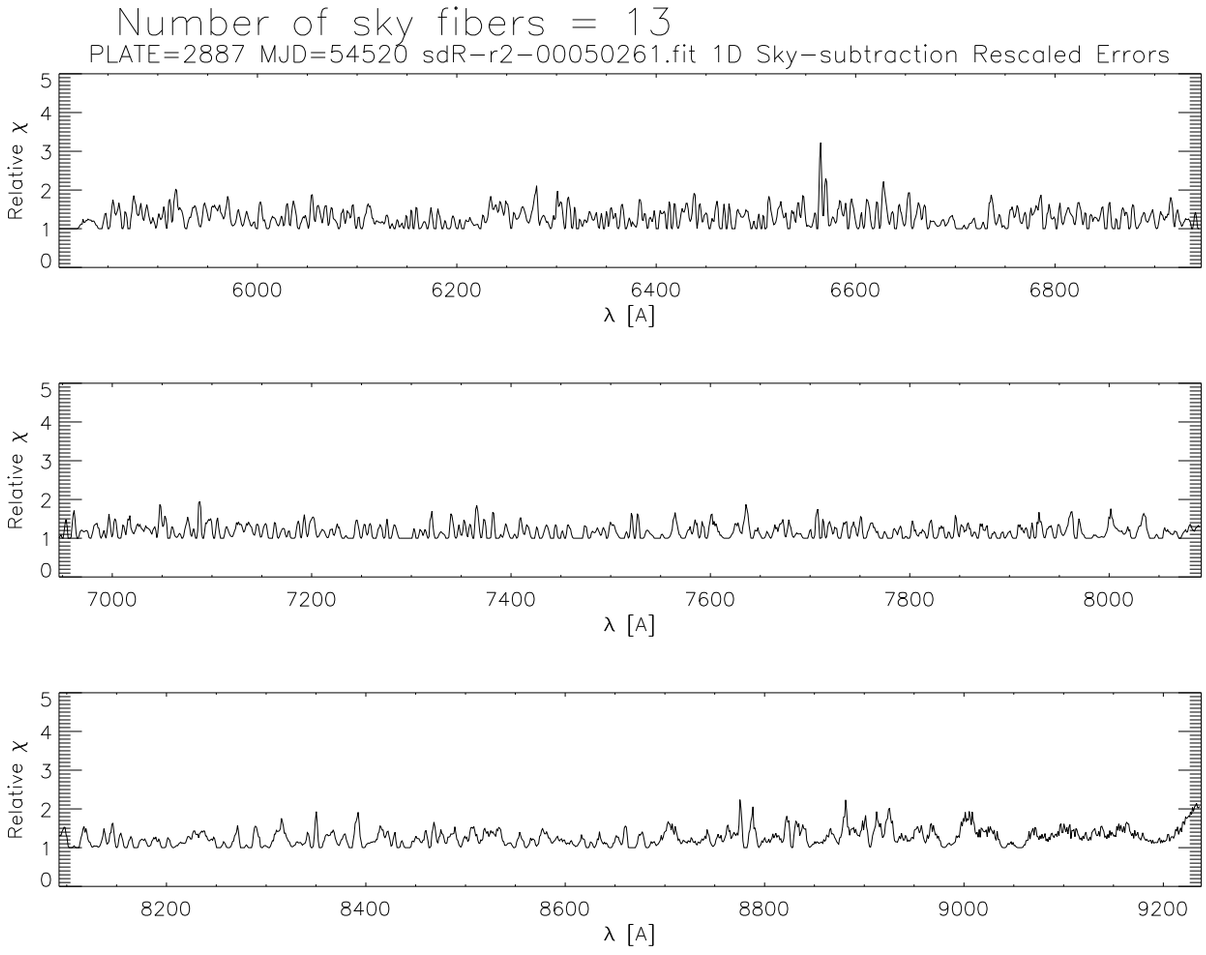

0.05
0.00
−0.05
−0.10
−0.15
−0.20
−0.25
sky shift, pixels
5000
6000
7000
8000
9000
10000

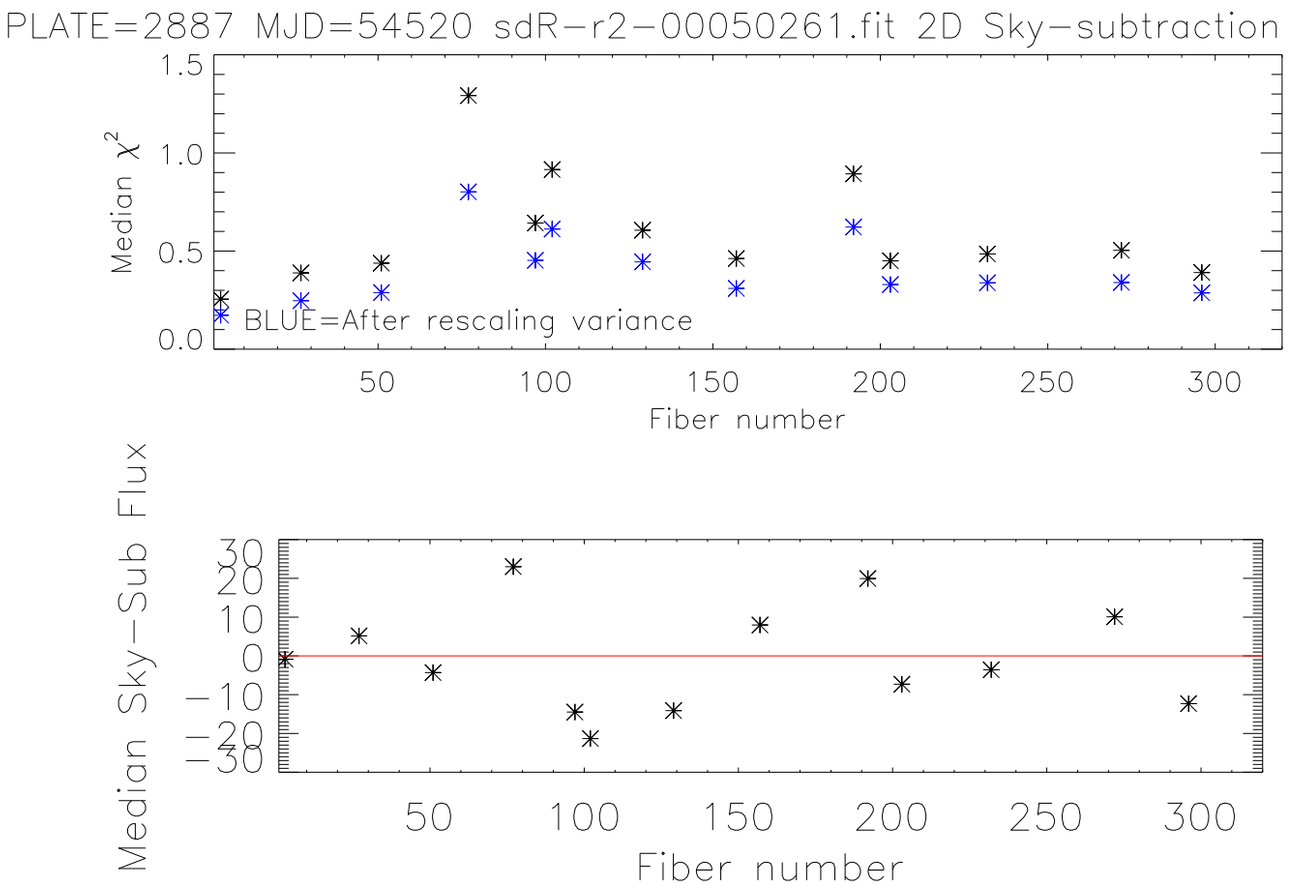

PLATE=2887 MJD=54520 Smooth superflat for sdR-r2-00050261.fit
2.0
1.5
1.0
0.5
0.0
es= -0.0000
1.010
1.005
1.000
0.995
0.990
0.985
6000
7000
8000
9000
Wavelength (Å)


PLATE=2887 MJD=54520 sdR-r2-00050261.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

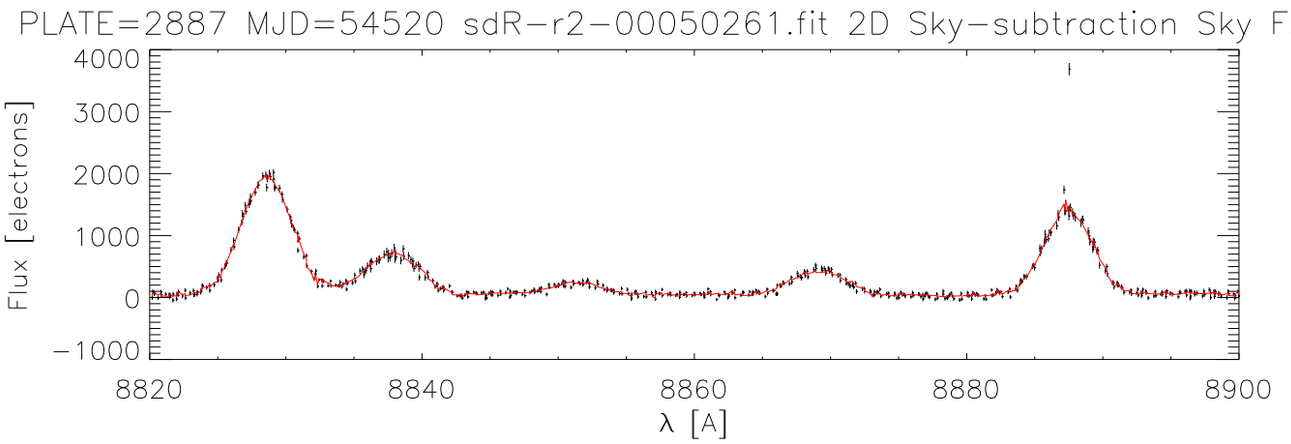

PLATE=2887 MJD=54520 sdR-r2-00050261.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

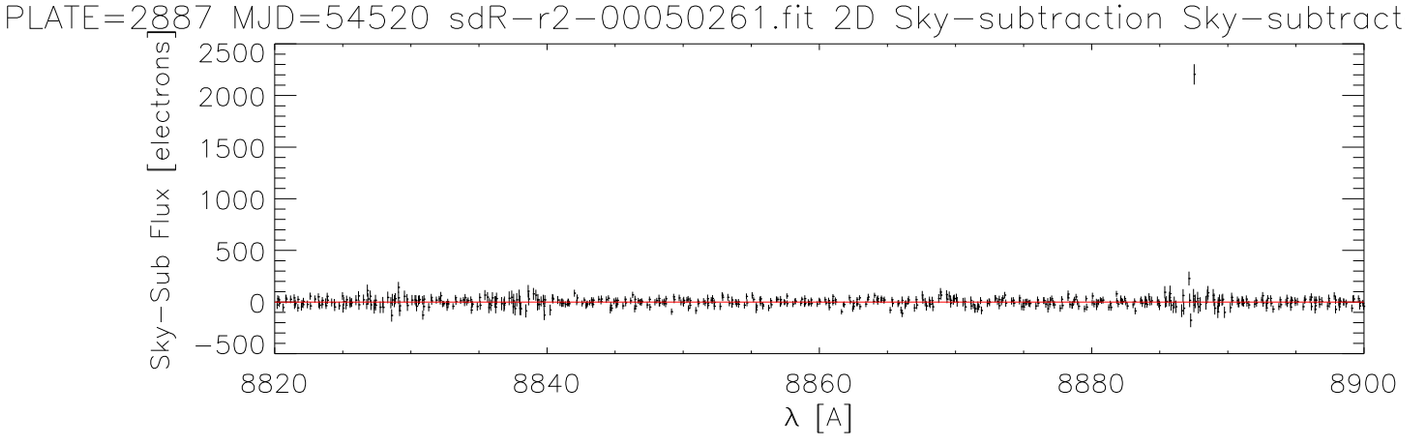

PLATE=2887 MJD=54520 sdR-r2-00050261.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

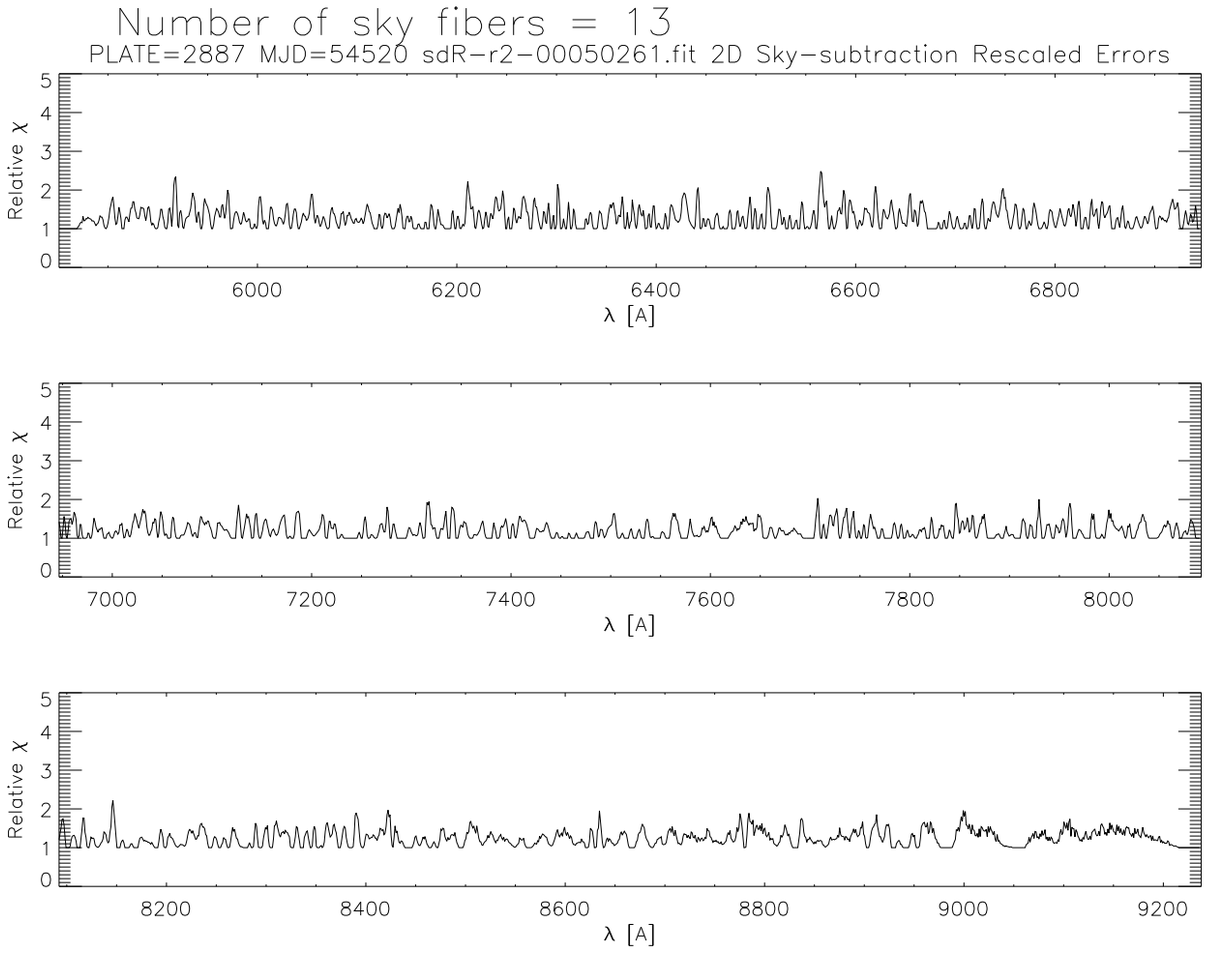

Number of sky fibers = 13
PLATE=2887 MJD=54520 sdR-r2-00050261.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

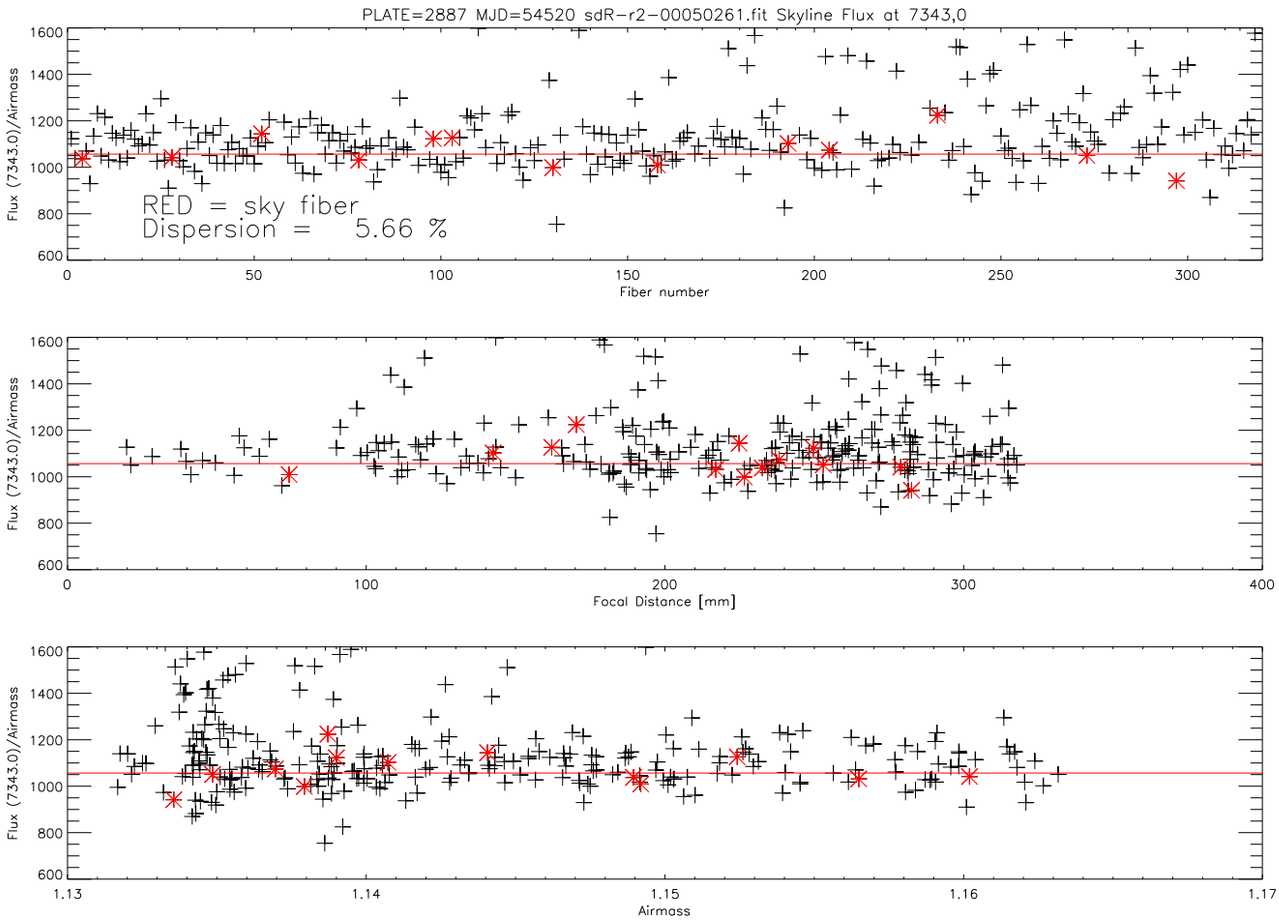

PLATE=2887 MJD=54520 sdR-r2-00050261.fit 2D Sky-subtraction Sky Fibers
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number

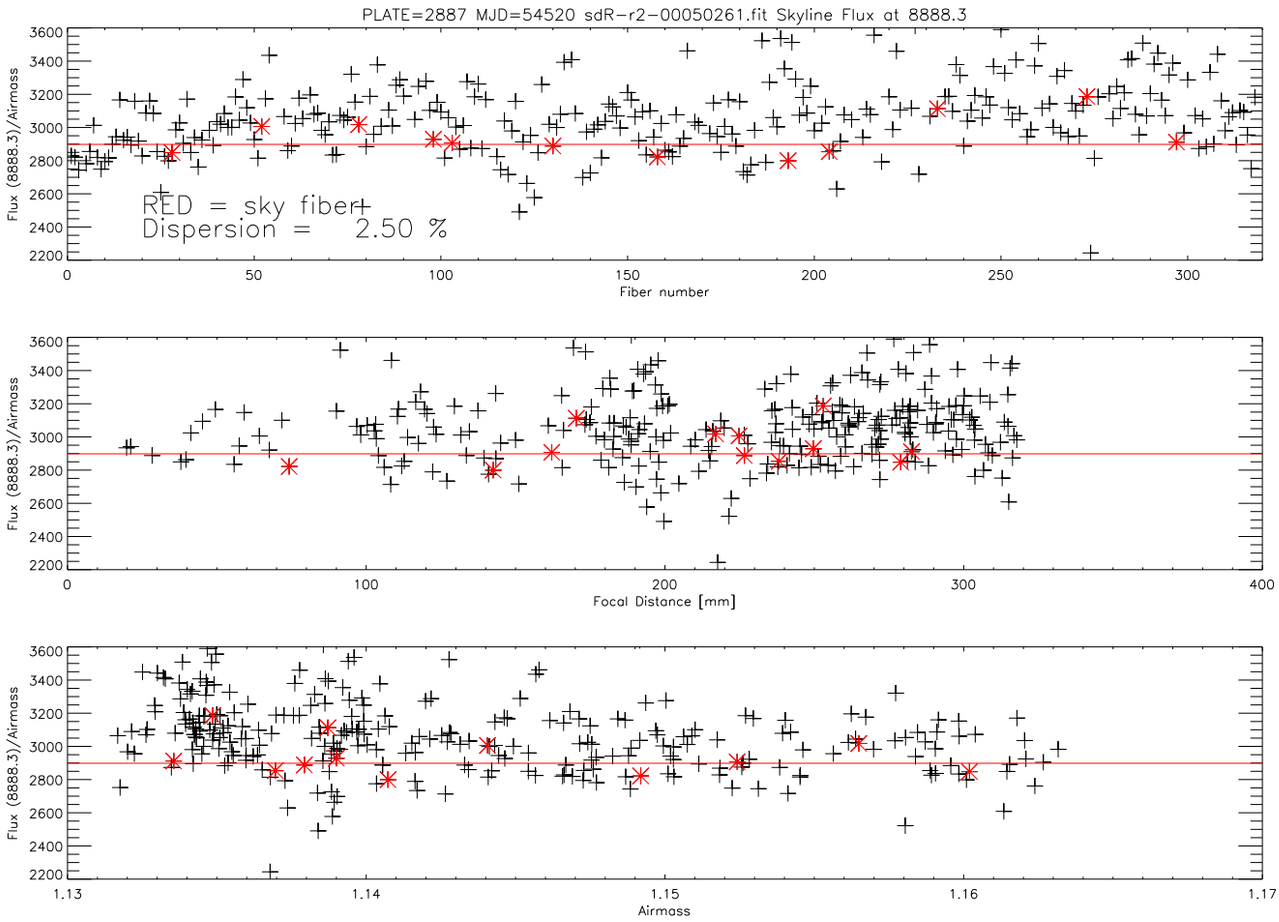
Median Sky-Sub Flux
30
20
10
0
-10
-20
-30
50
100
150
200
250
300
Fiber number

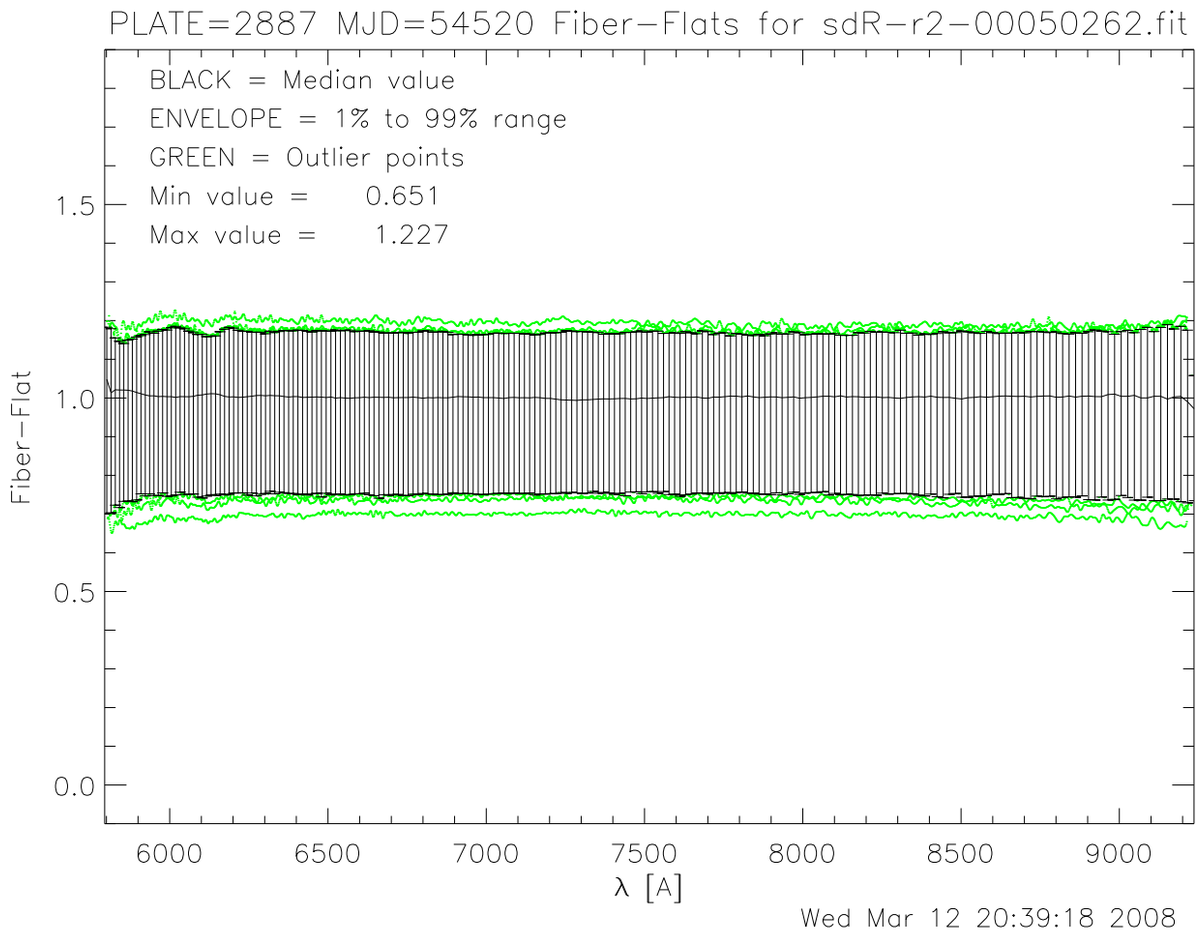

PLATE=2887 MJD=54520 sdR-r2-00050261.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

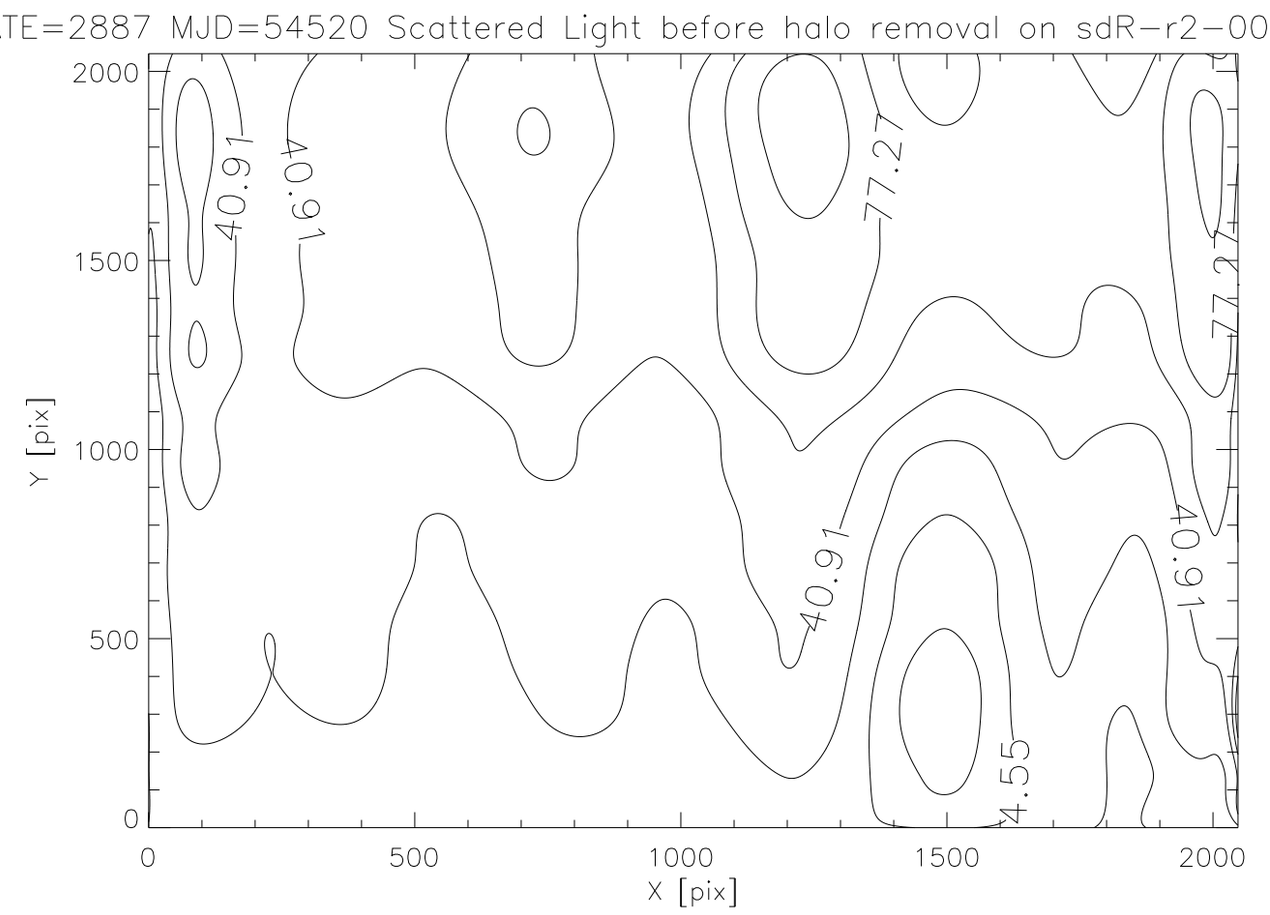

PLATE=2887 MJD=54520 sdR-r2-00050261.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

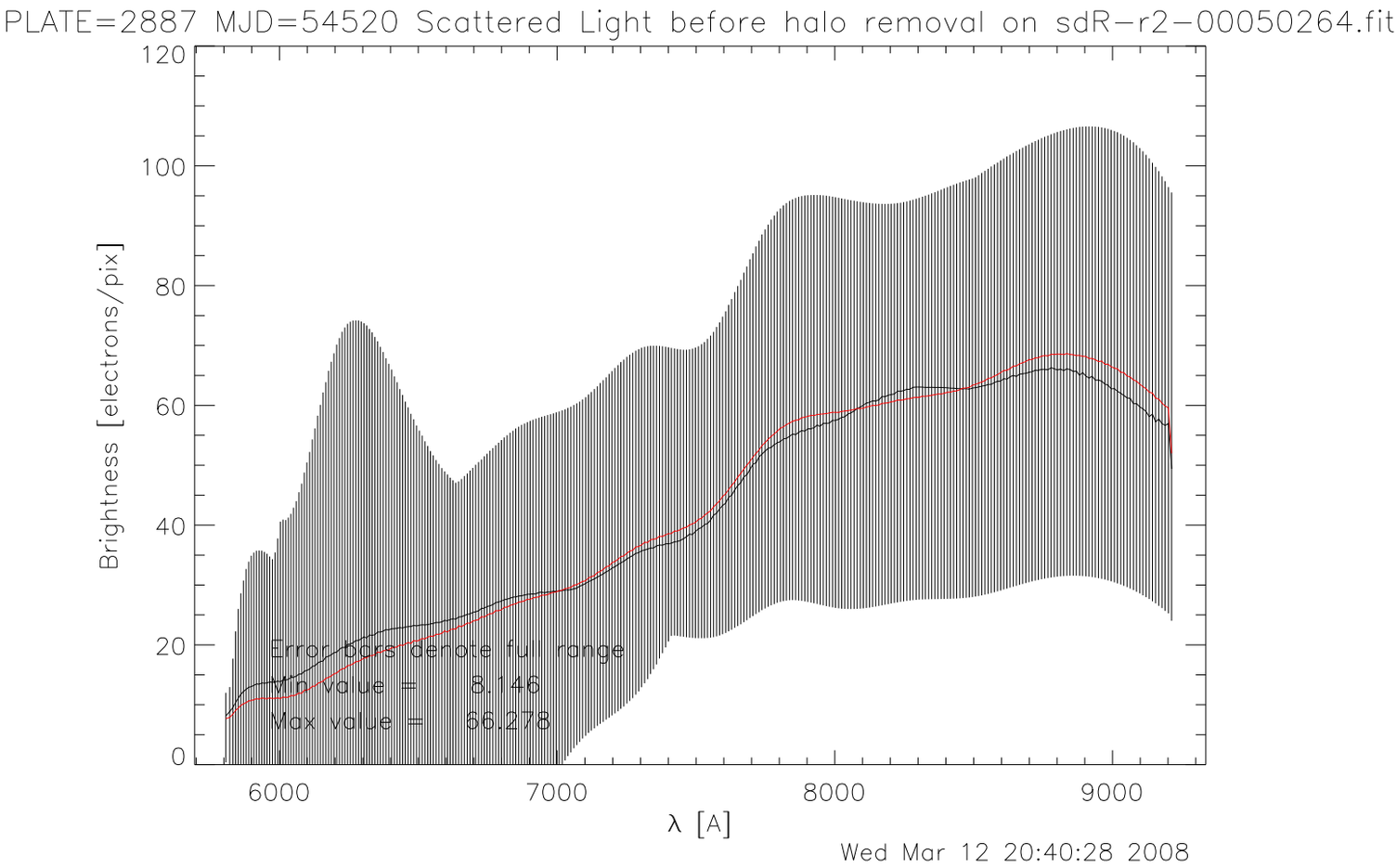

Number of sky fibers = 13
PLATE=2887 MJD=54520 sdR-r2-00050261.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

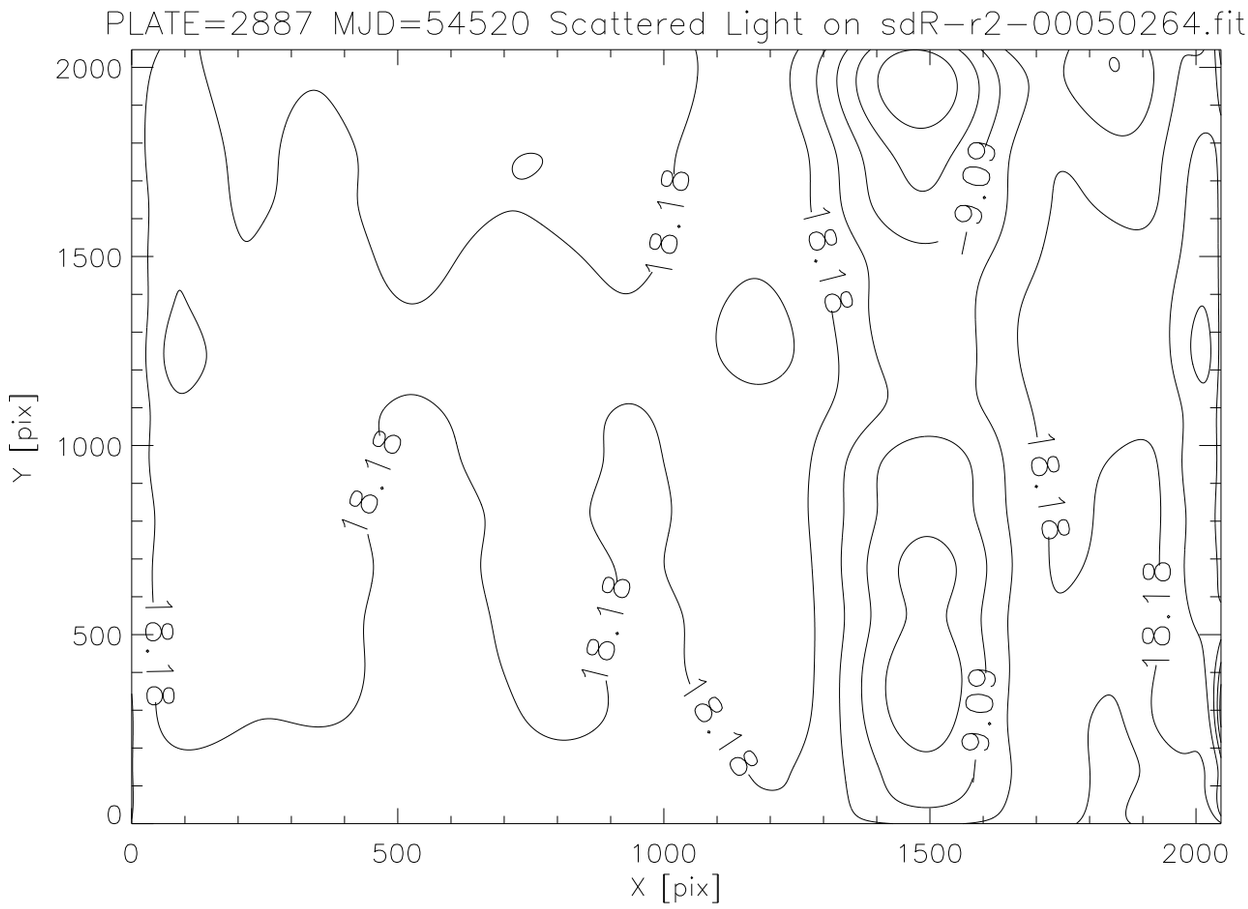

PLATE=2887 MJD=54520 sdR-r2-00050261.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = sky fiber
Dispersion = 5.66 %
Fiber number
Focal Distance [mm]
Airmass

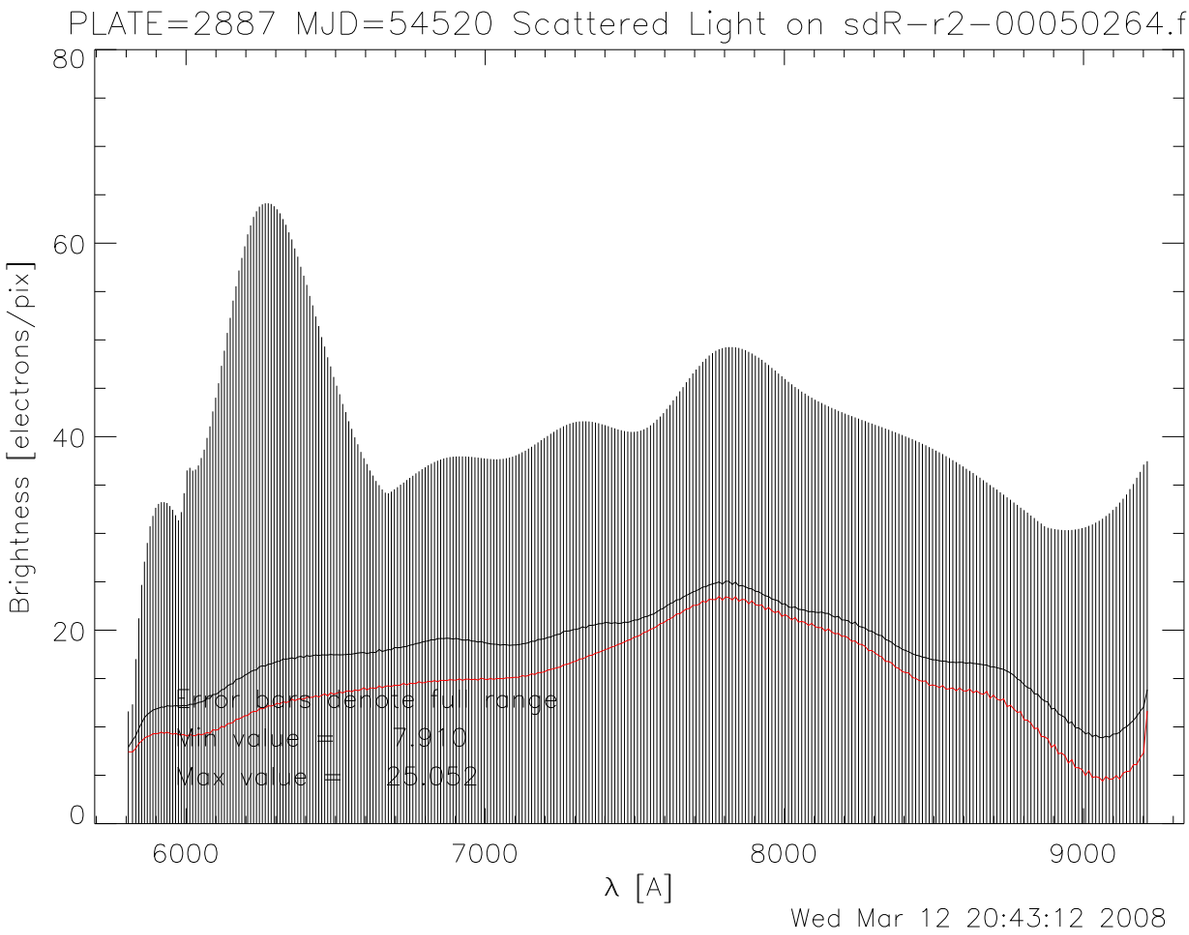

PLATE=2887 MJD=54520 sdR-r2-00050261.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.50 %
Fiber number
Flux (8888.3)/Airmass
Focal Distance [mm]
Flux (8888.3)/Airmass
Airmass

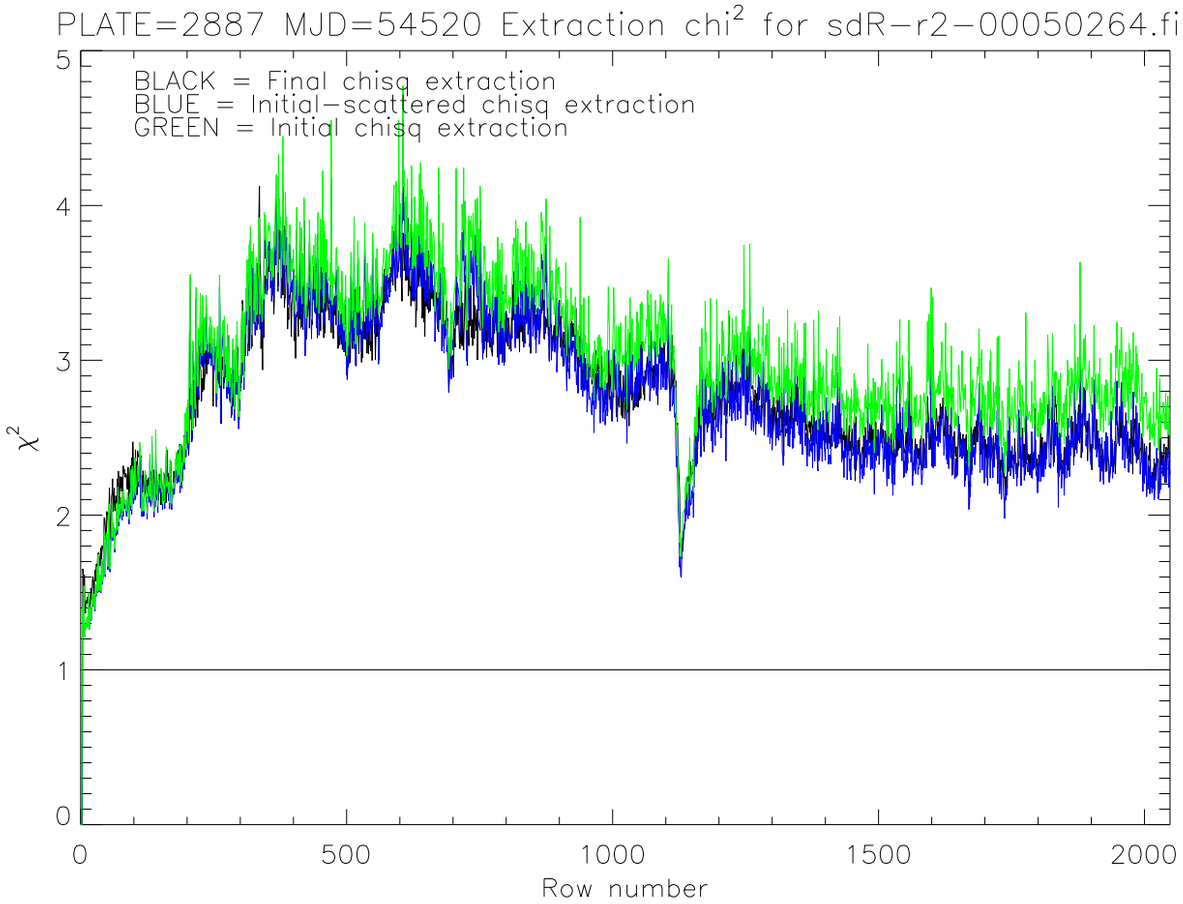

PLATE=2887 MJD=54520 Fiber-Flats for sdR-r2-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.651
Max value = 1.227
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 20:39:18 2008

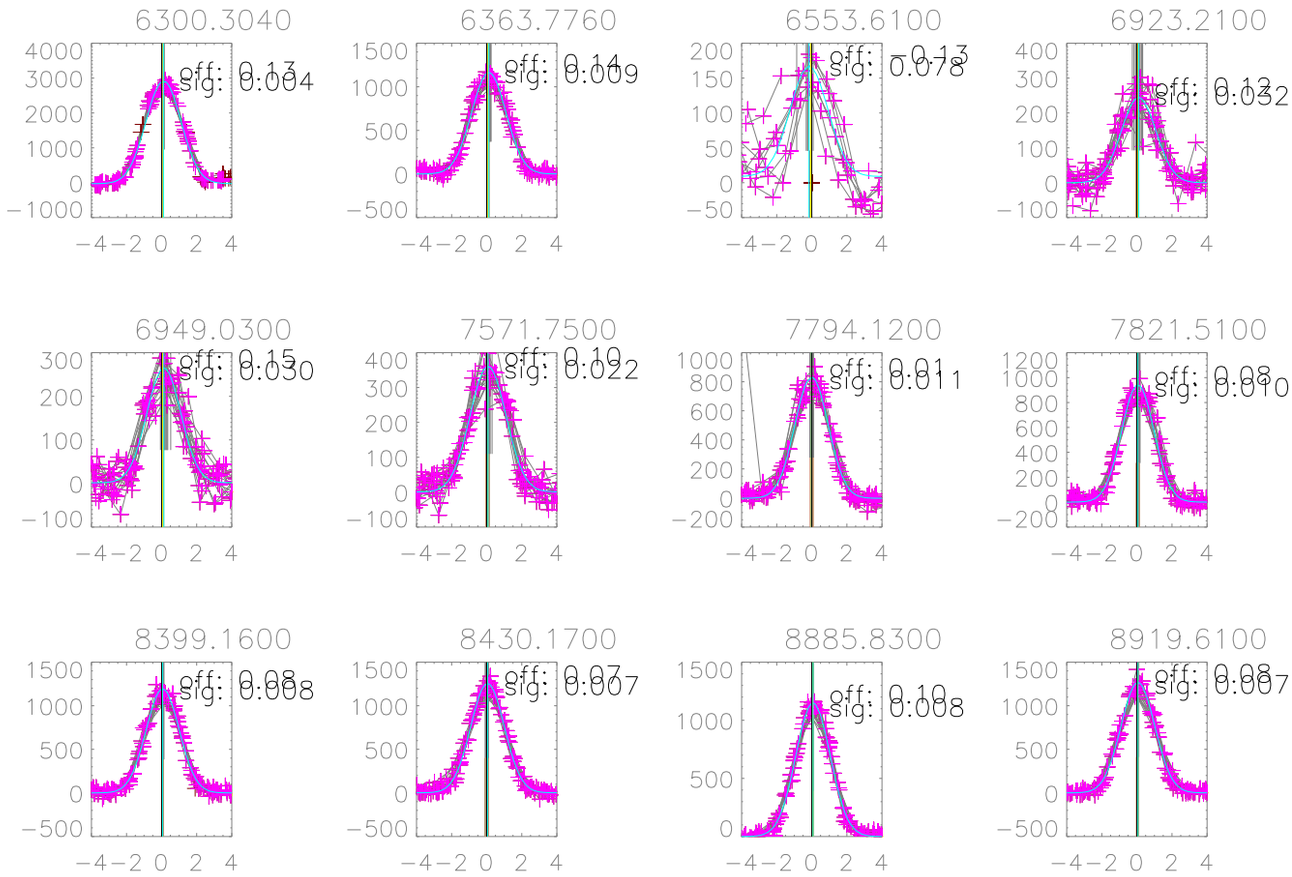

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r2-00050264.fit
40.91
40.91
77.27
40.91
40.91
4.55
Y [pix]
X [pix]
0
500
1000
1500
2000

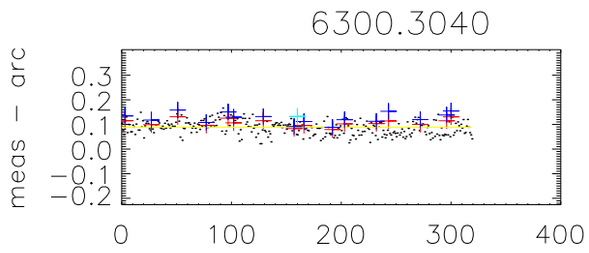

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r2-00050264.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 8.146
Max value = 66.278
Wed Mar 12 20:40:28 2008

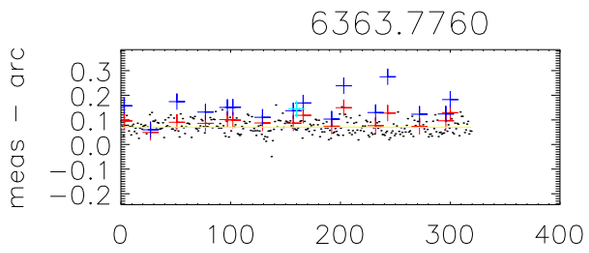

PLATE=2887 MJD=54520 Scattered Light on sdR-r2-00050264.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0
18.18
-9.09
9.09

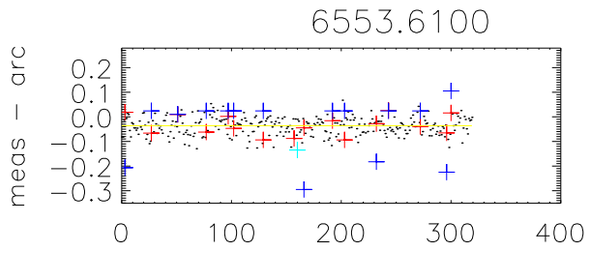

PLATE=2887 MJD=54520 Scattered Light on sdR-r2-00050264.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.910
Max value = 25.052
Wed Mar 12 20:43:12 2008

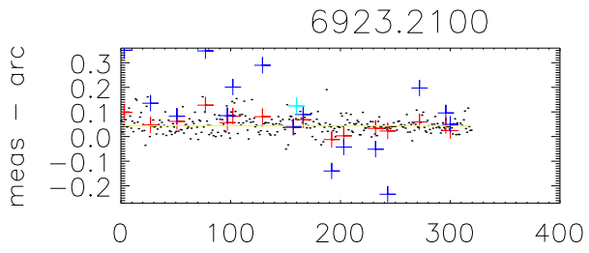

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-r2-00050264.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

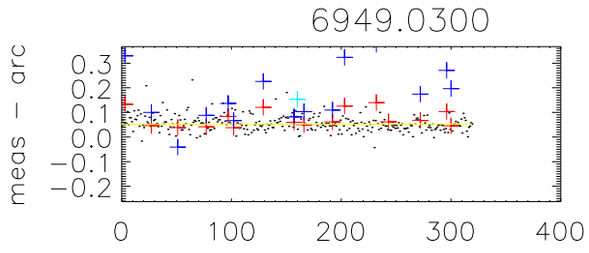

6300.3040
off: 0.13
sig: 0.004
6363.7760
off: 0.14
sig: 0.009
6553.6100
off: 0.13
sig: 0.078
6923.2100
off: 0.12
sig: 0.032
6949.0300
off: 0.15
sig: 0.030
7571.7500
off: 0.10
sig: 0.022
7794.1200
off: 0.01
sig: 0.011
7821.5100
off: 0.08
sig: 0.010
8399.1600
off: 0.08
sig: 0.008
8430.1700
off: 0.07
sig: 0.007
8885.8300
off: 0.10
sig: 0.008
8919.6100
off: 0.08
sig: 0.007

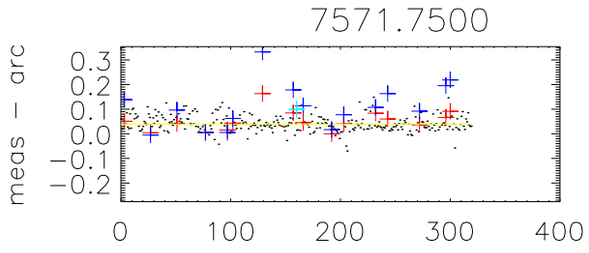

6300.3040
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

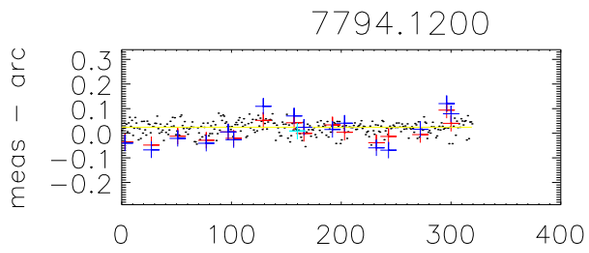

6363.7760
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

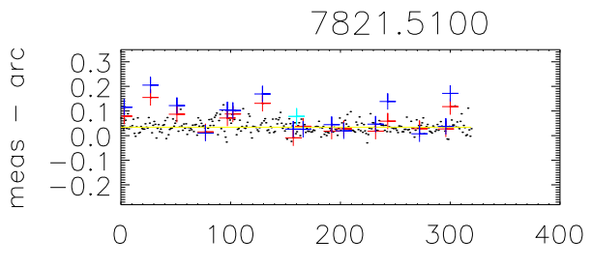

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

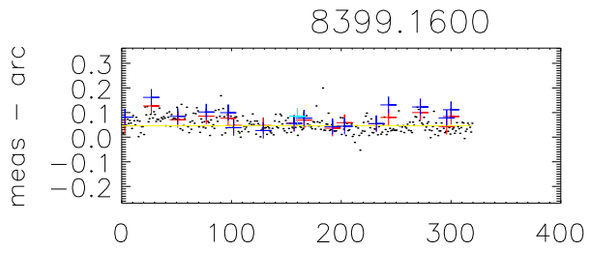

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

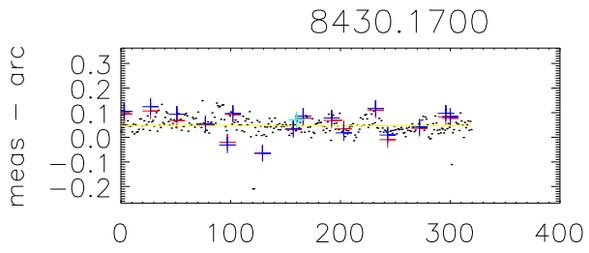

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

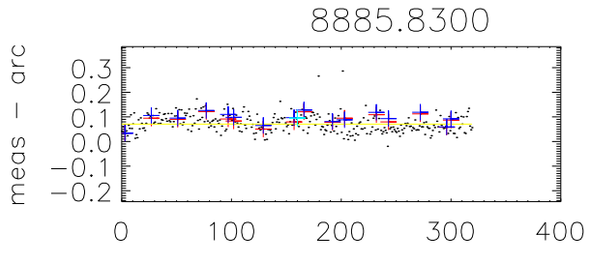

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

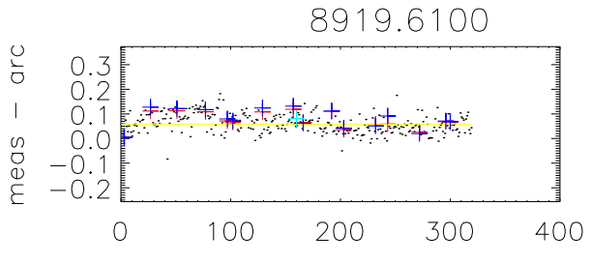

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

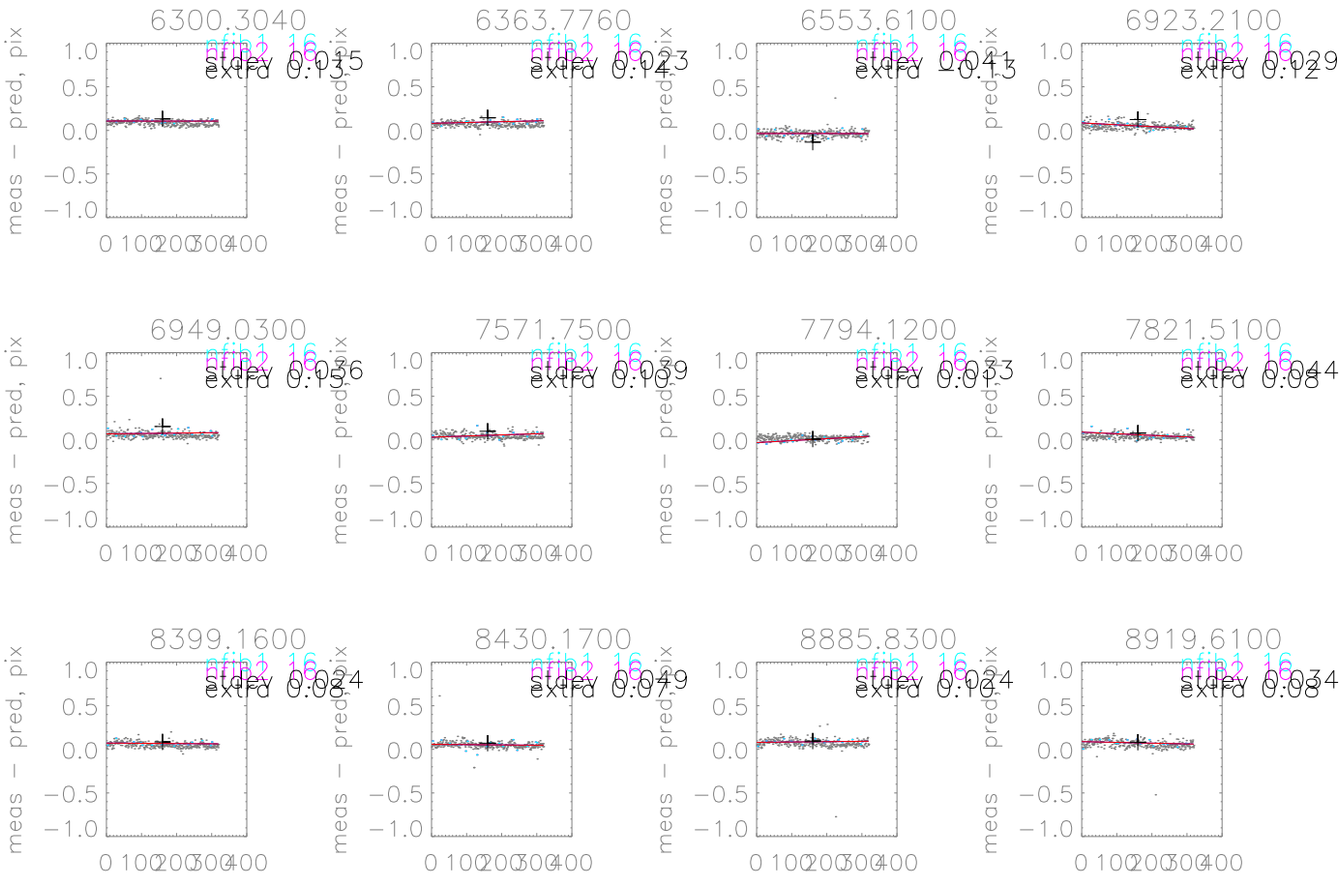

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

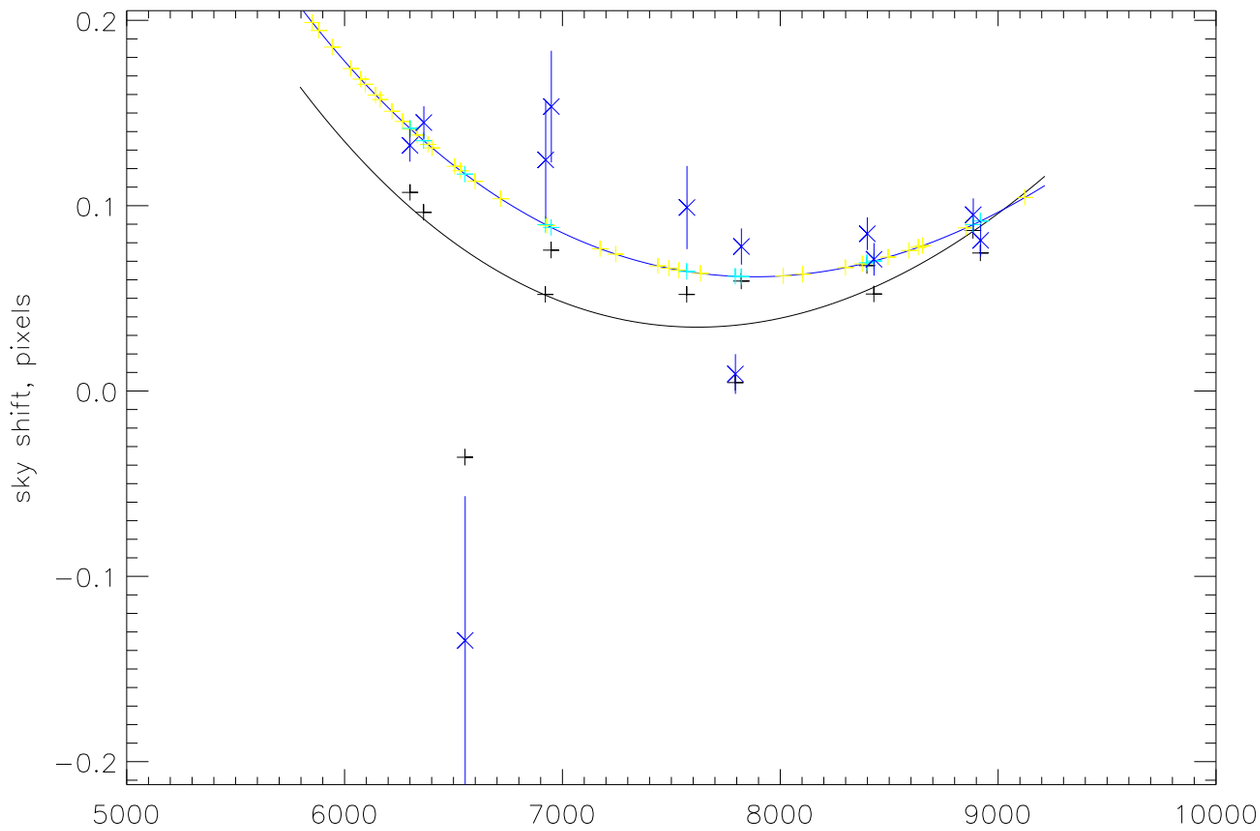

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

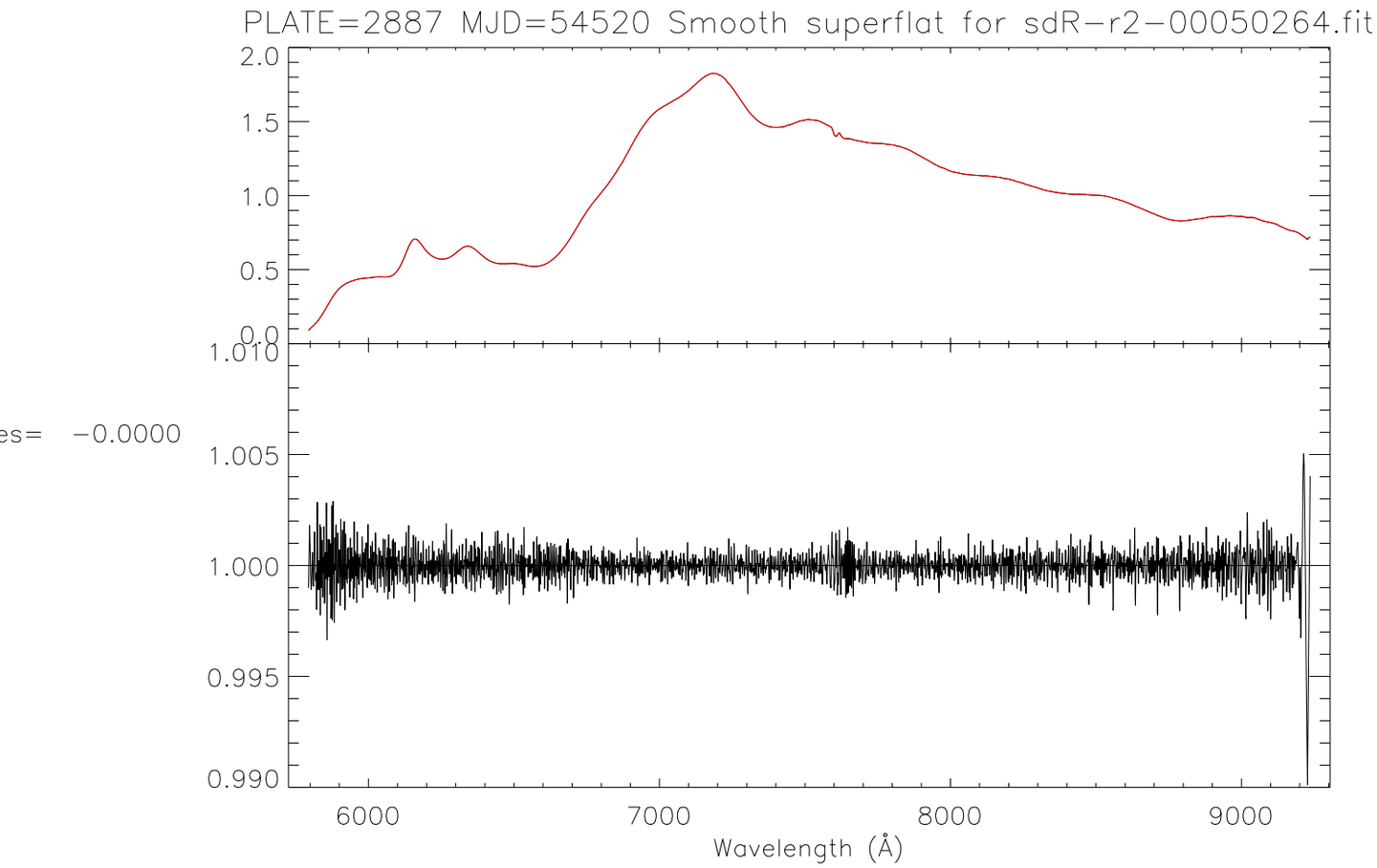

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

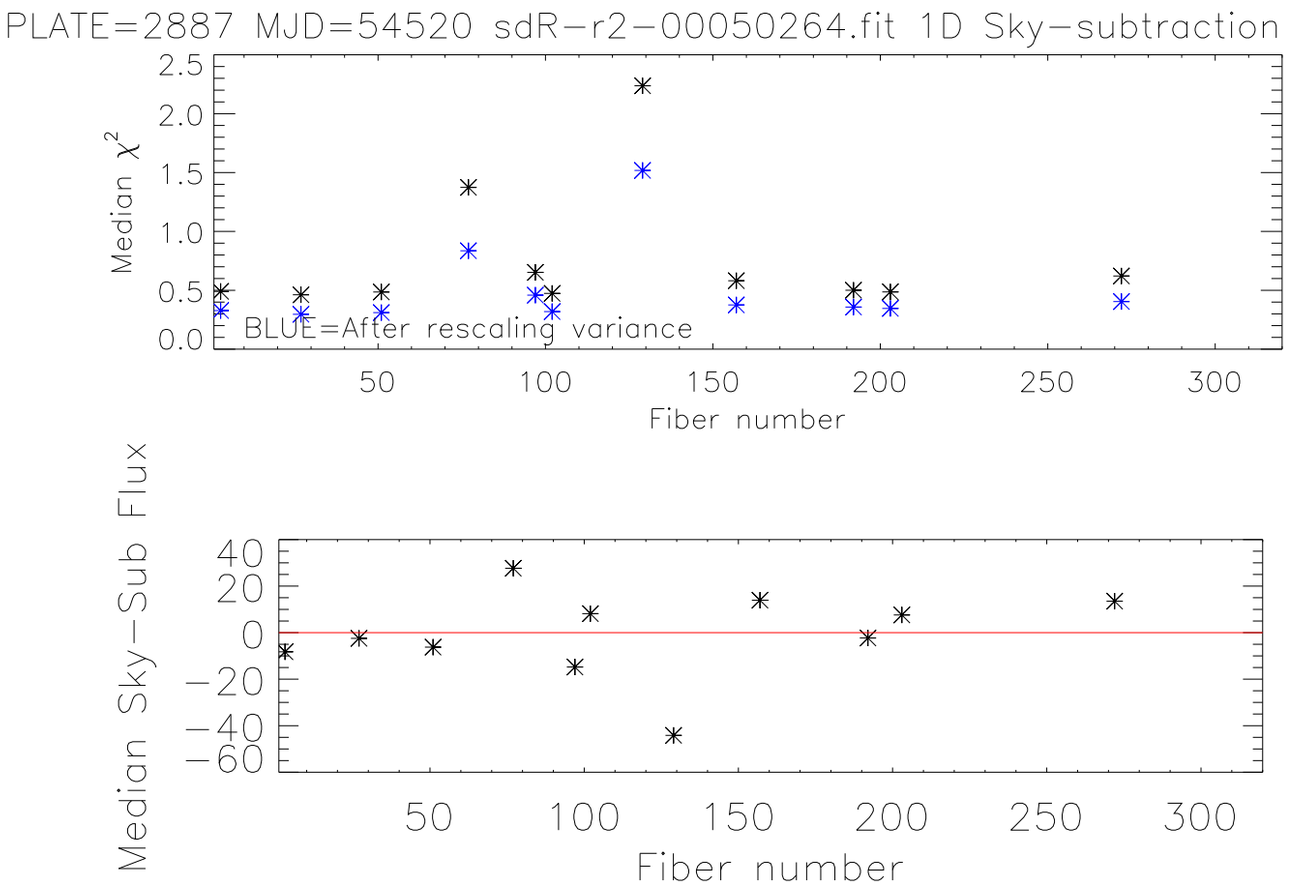

8885.8300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

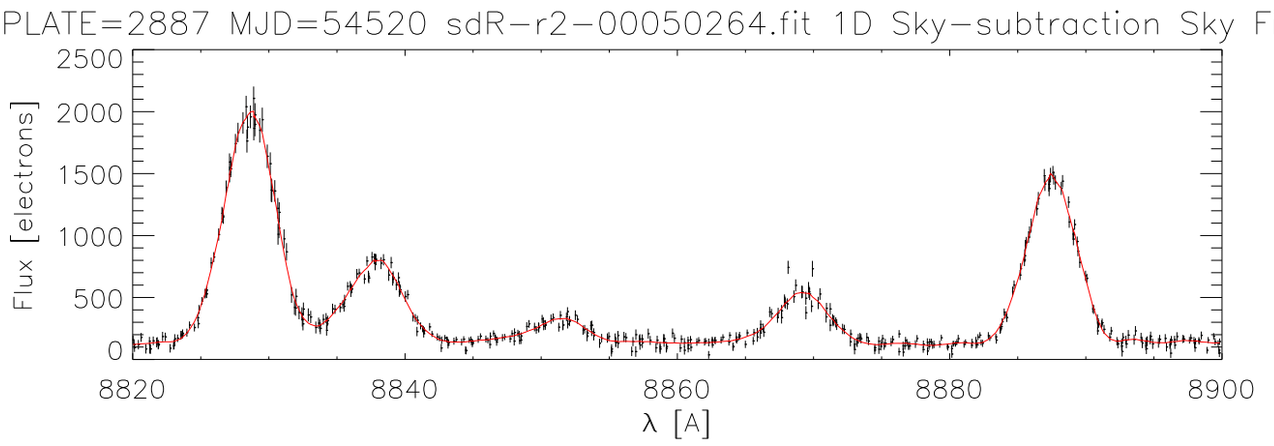

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

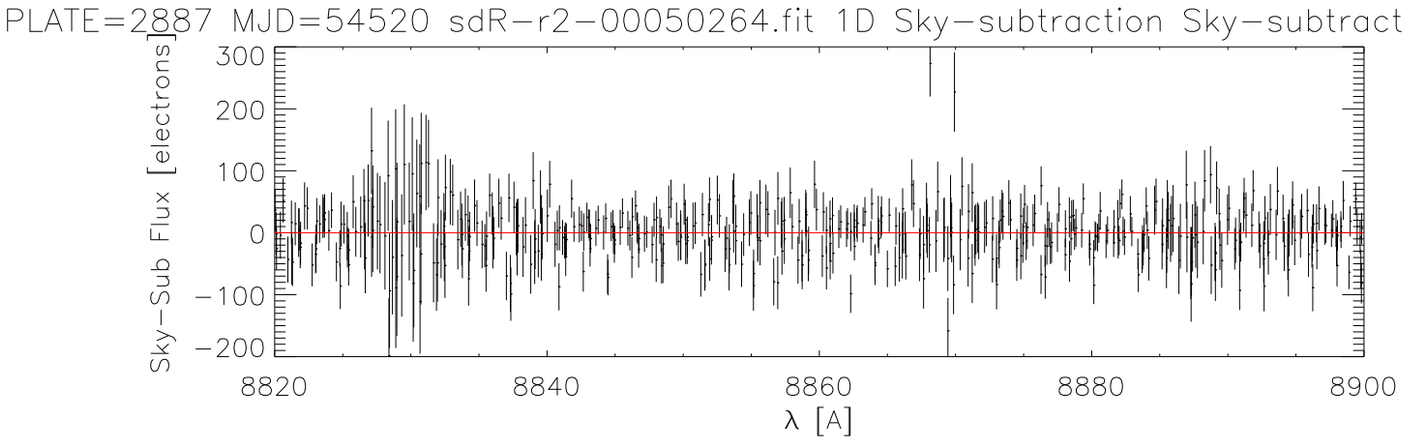

6300.3040
stdev 0.0135
extra 0.13
6363.7760
stdev 0.0123
extra 0.14
6553.6100
stdev 0.0141
extra 0.13
6923.2100
stdev 0.0129
extra 0.12
6949.0300
stdev 0.0156
extra 0.15
7571.7500
stdev 0.0139
extra 0.10
7794.1200
stdev 0.0113
extra 0.01
7821.5100
stdev 0.0144
extra 0.08
8399.1600
stdev 0.0124
extra 0.08
8430.1700
stdev 0.0149
extra 0.07
8885.8300
stdev 0.0124
extra 0.16
8919.6100
stdev 0.0134
extra 0.08
meas − pred, pix
afib1 16
afib2 16
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

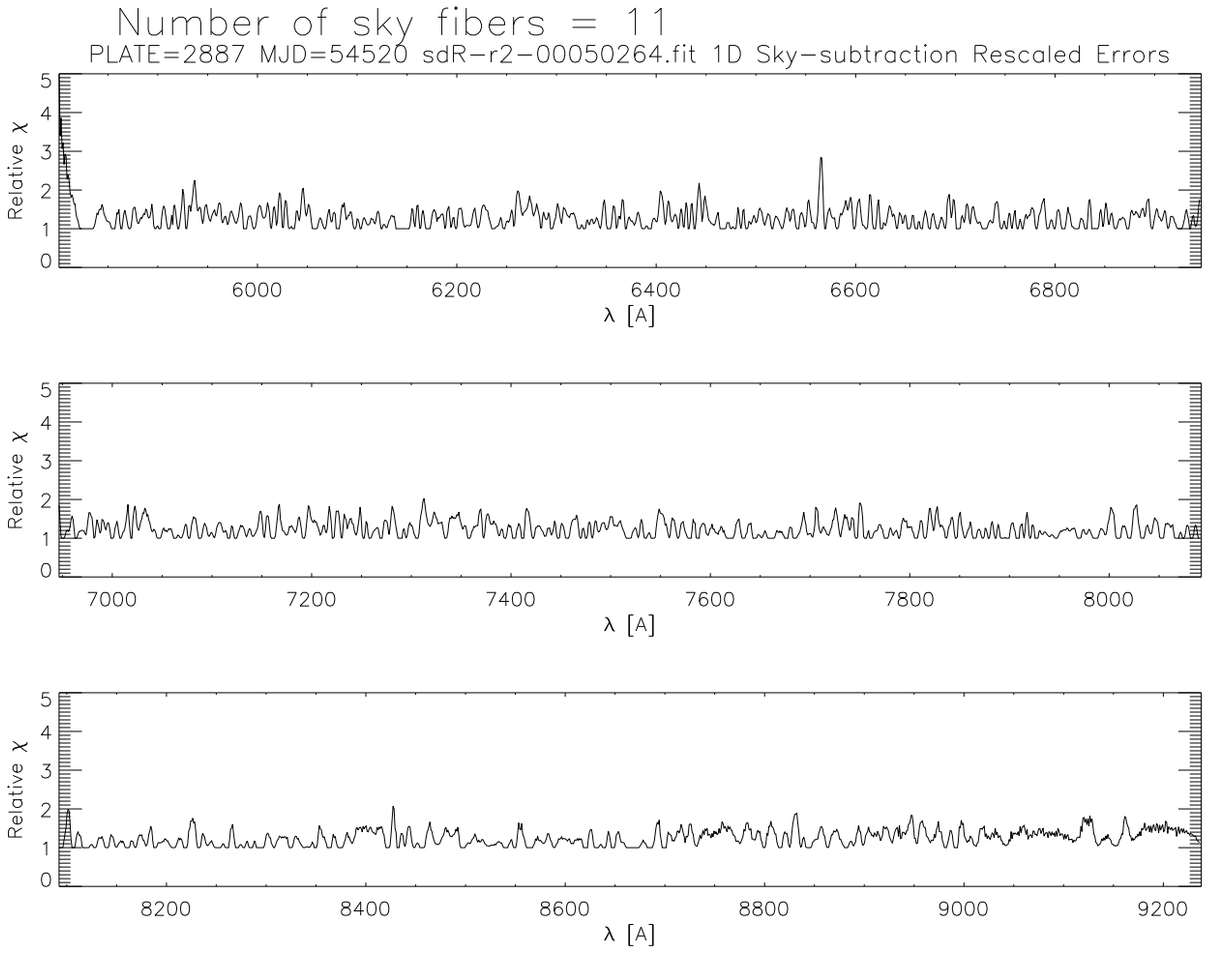

0.2
0.1
0.0
−0.1
−0.2
sky shift, pixels
5000
6000
7000
8000
9000
10000

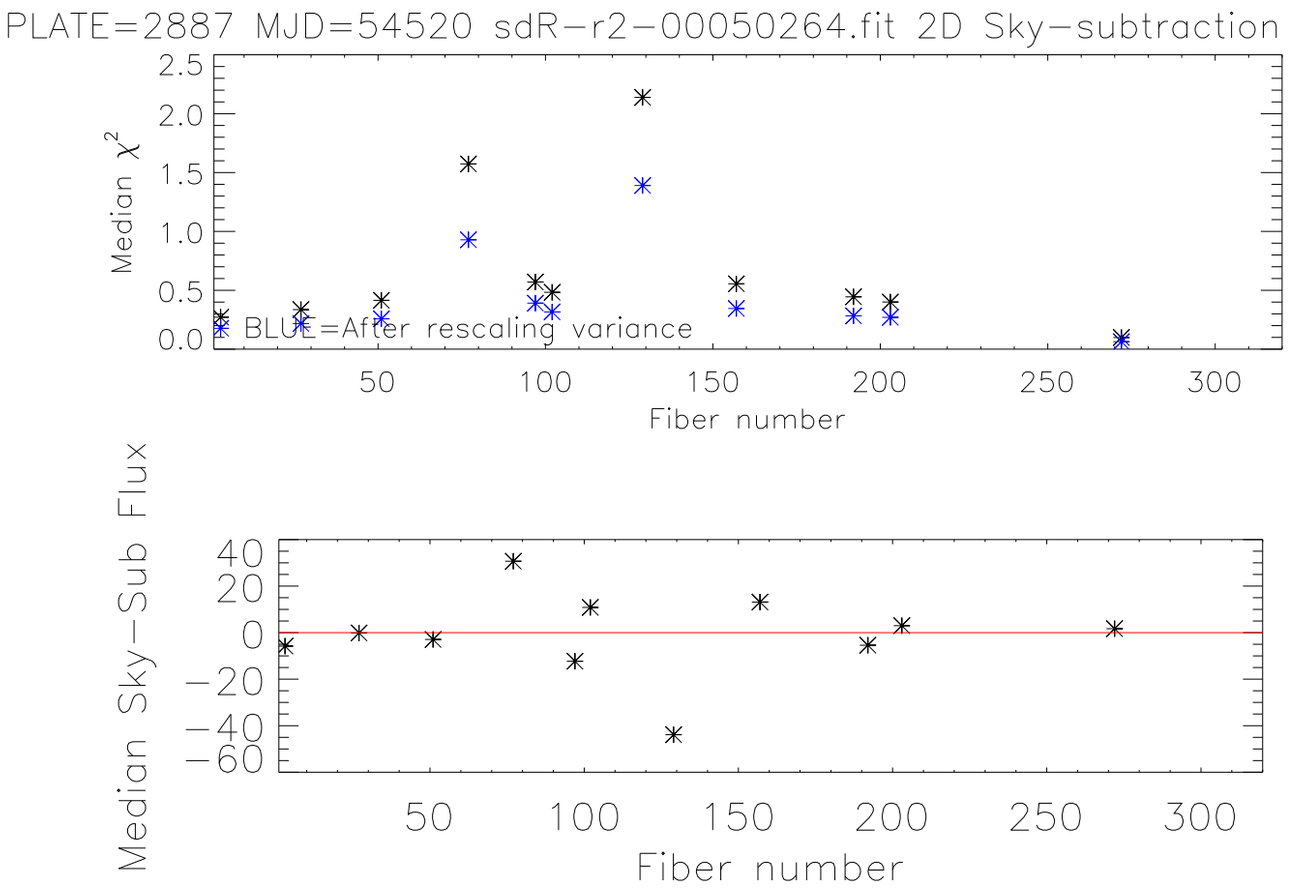

PLATE=2887 MJD=54520 Smooth superflat for sdR-r2-00050264.fit
2.0
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

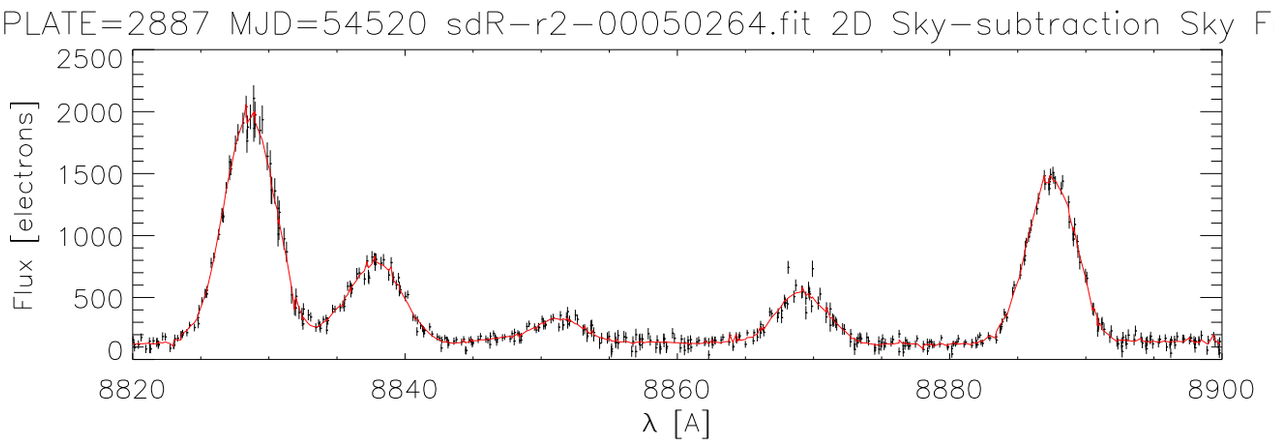

PLATE=2887 MJD=54520 sdR-r2-00050264.fit 1D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

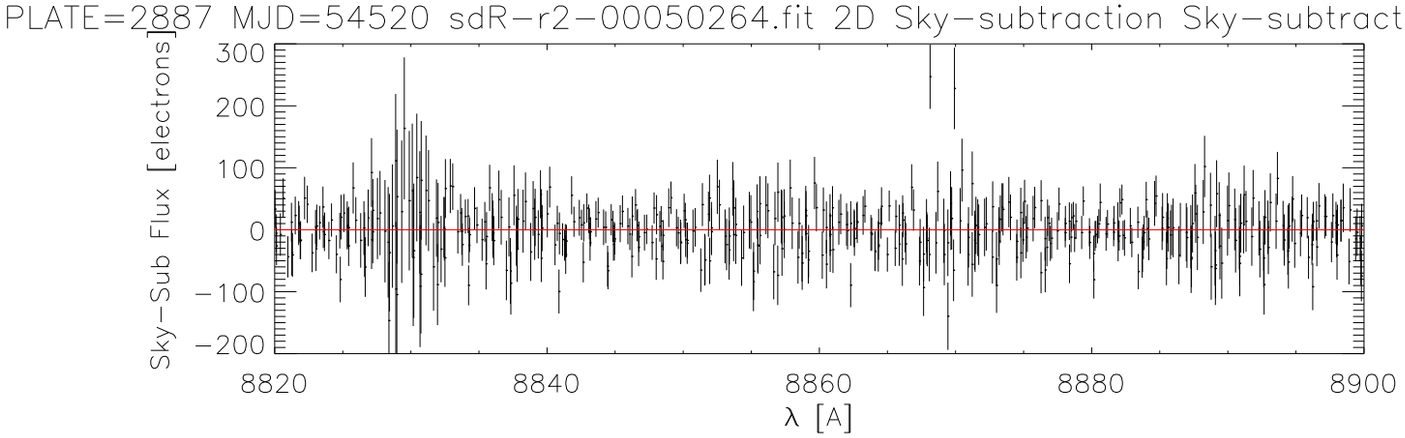

PLATE=2887 MJD=54520 sdR-r2-00050264.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

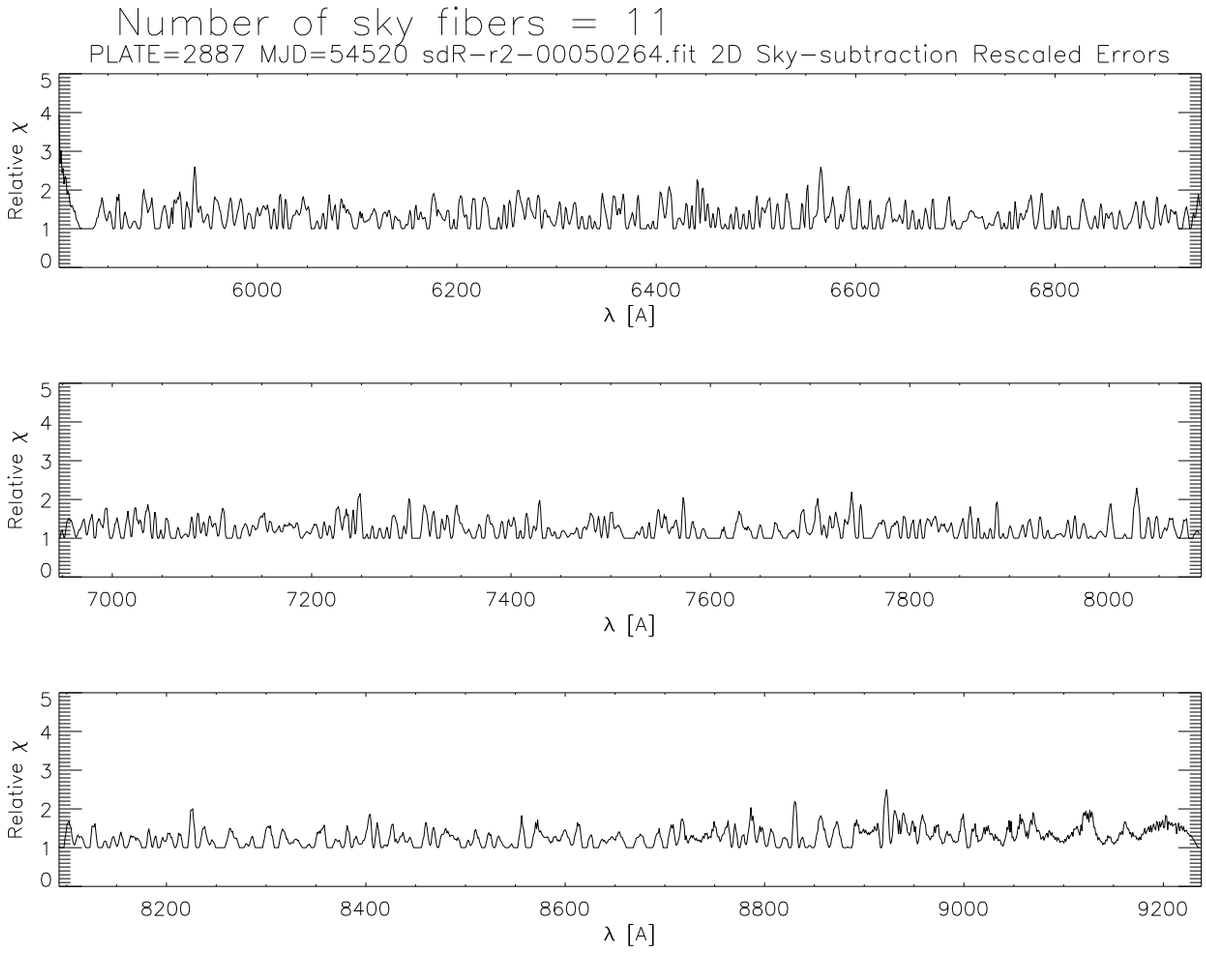

PLATE=2887 MJD=54520 sdR-r2-00050264.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

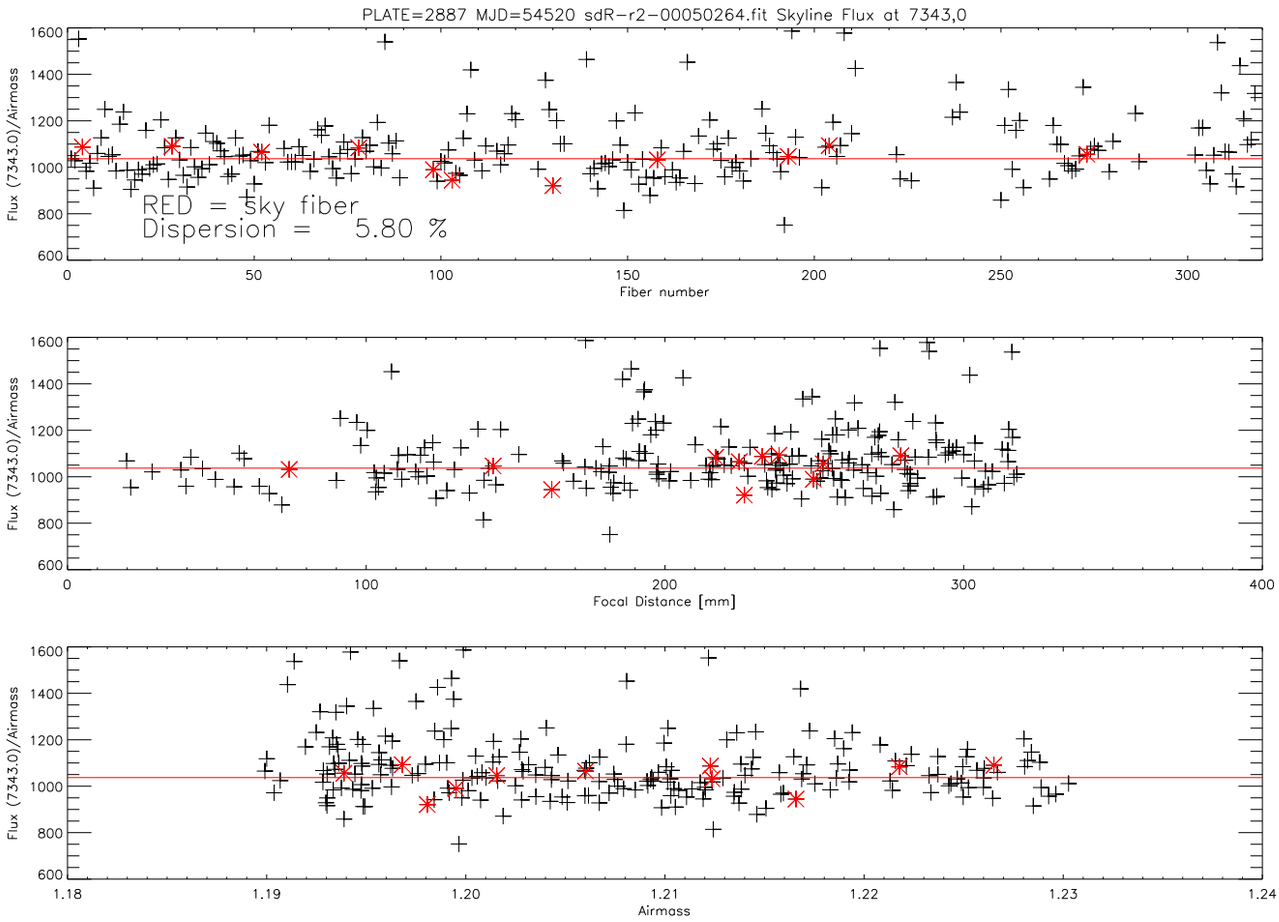

Number of sky fibers = 11
PLATE=2887 MJD=54520 sdR-r2-00050264.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

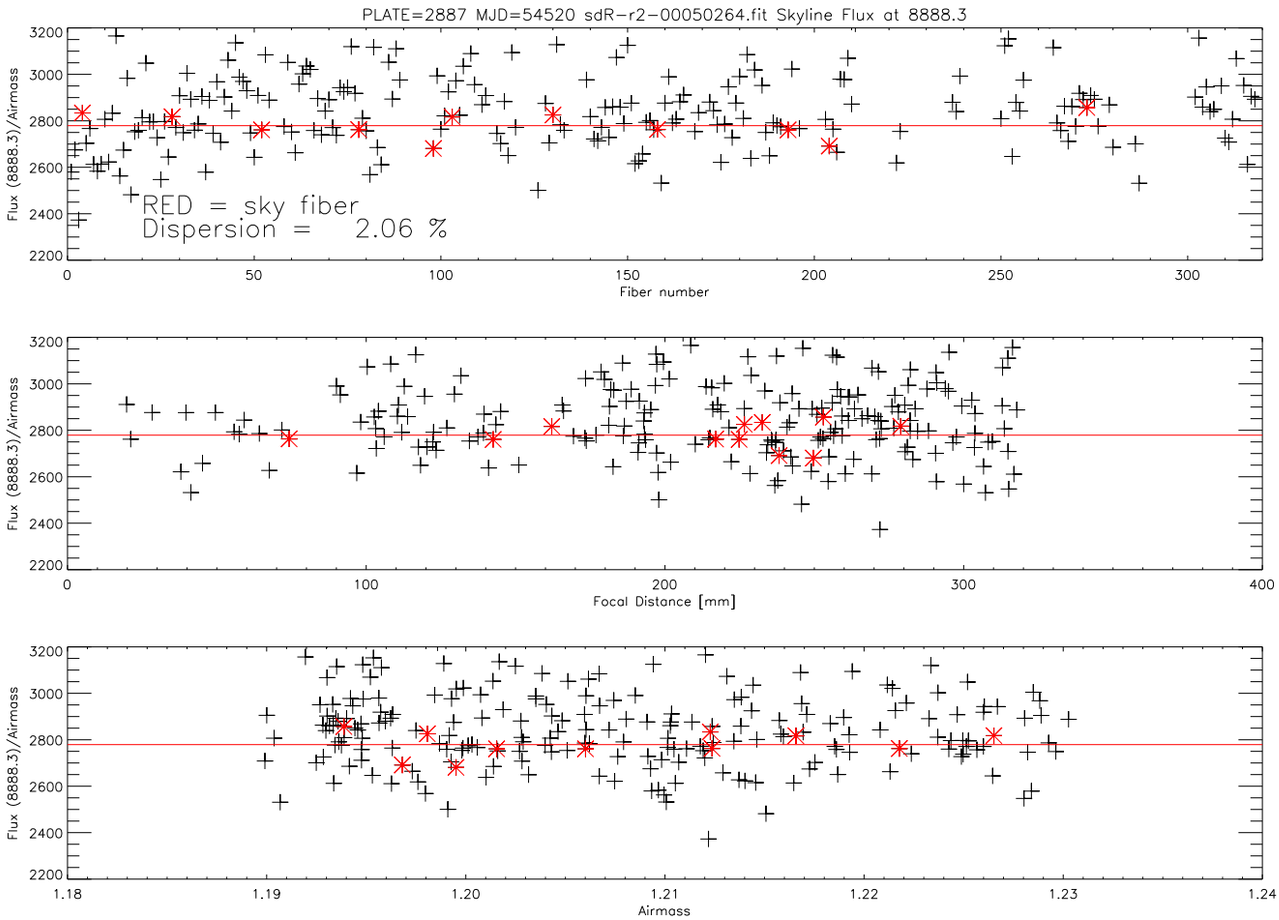

PLATE=2887 MJD=54520 sdR-r2-00050264.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number

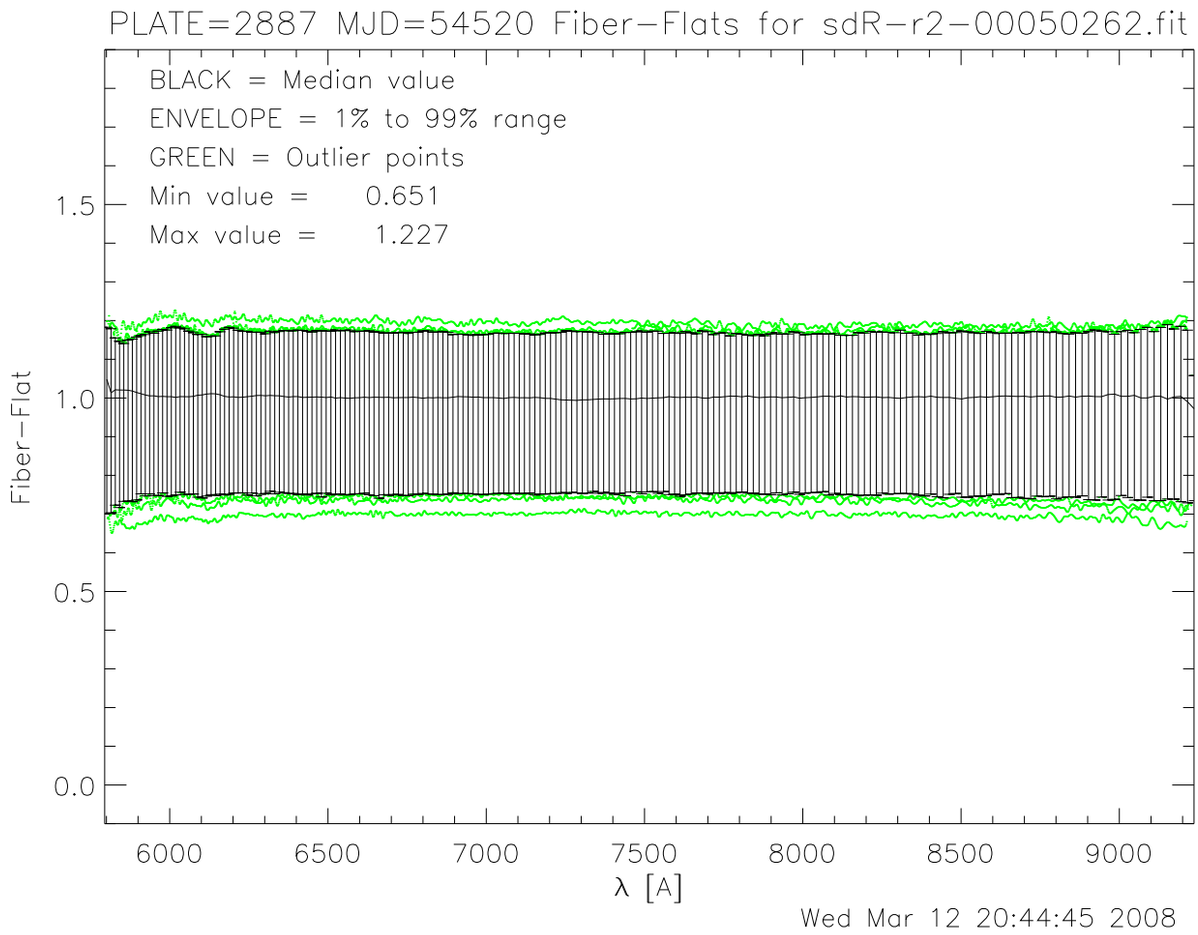

PLATE=2887 MJD=54520 sdR-r2-00050264.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

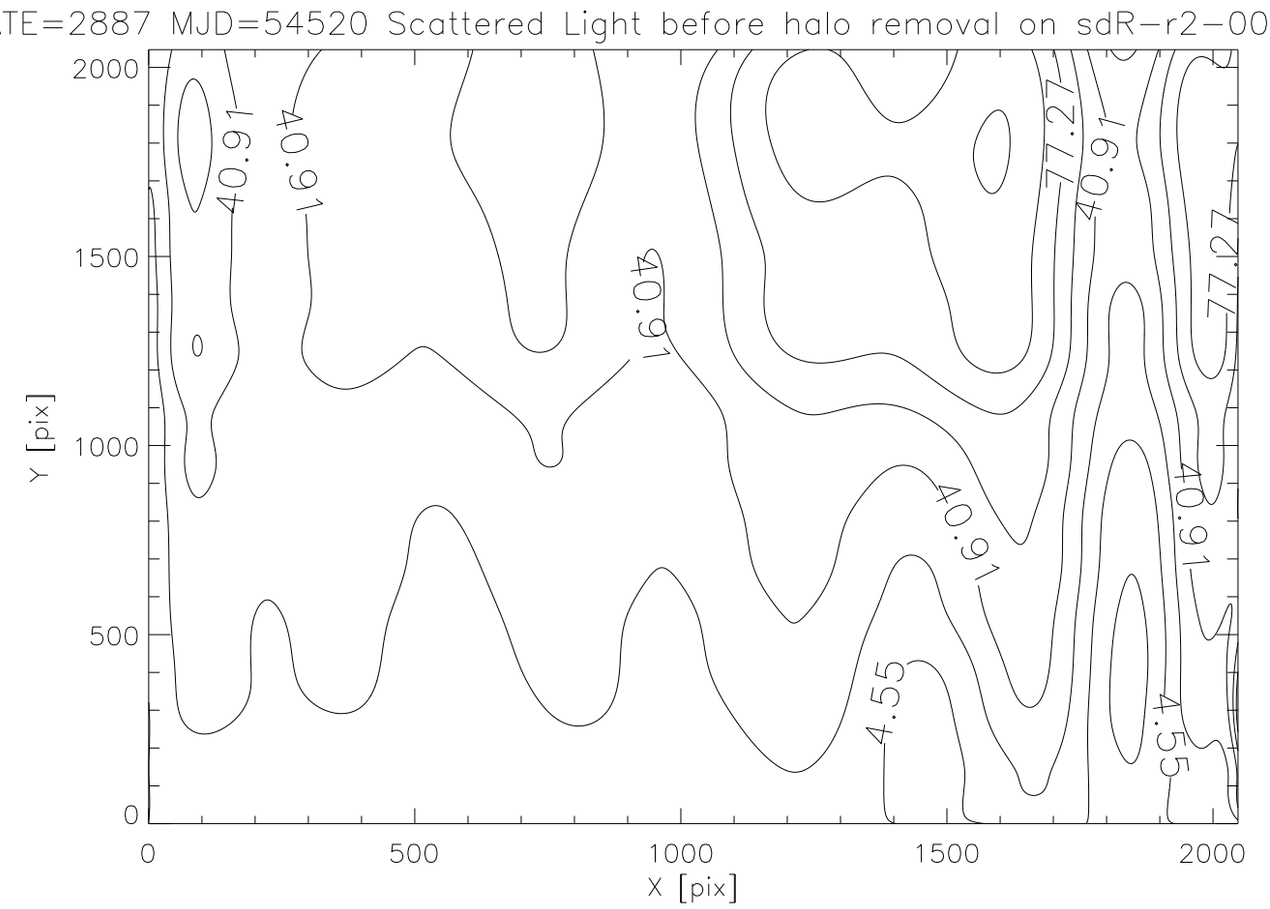

PLATE=2887 MJD=54520 sdR-r2-00050264.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
300
200
100
0
-100
-200
8820
8840
8860
8880
8900
λ [A]

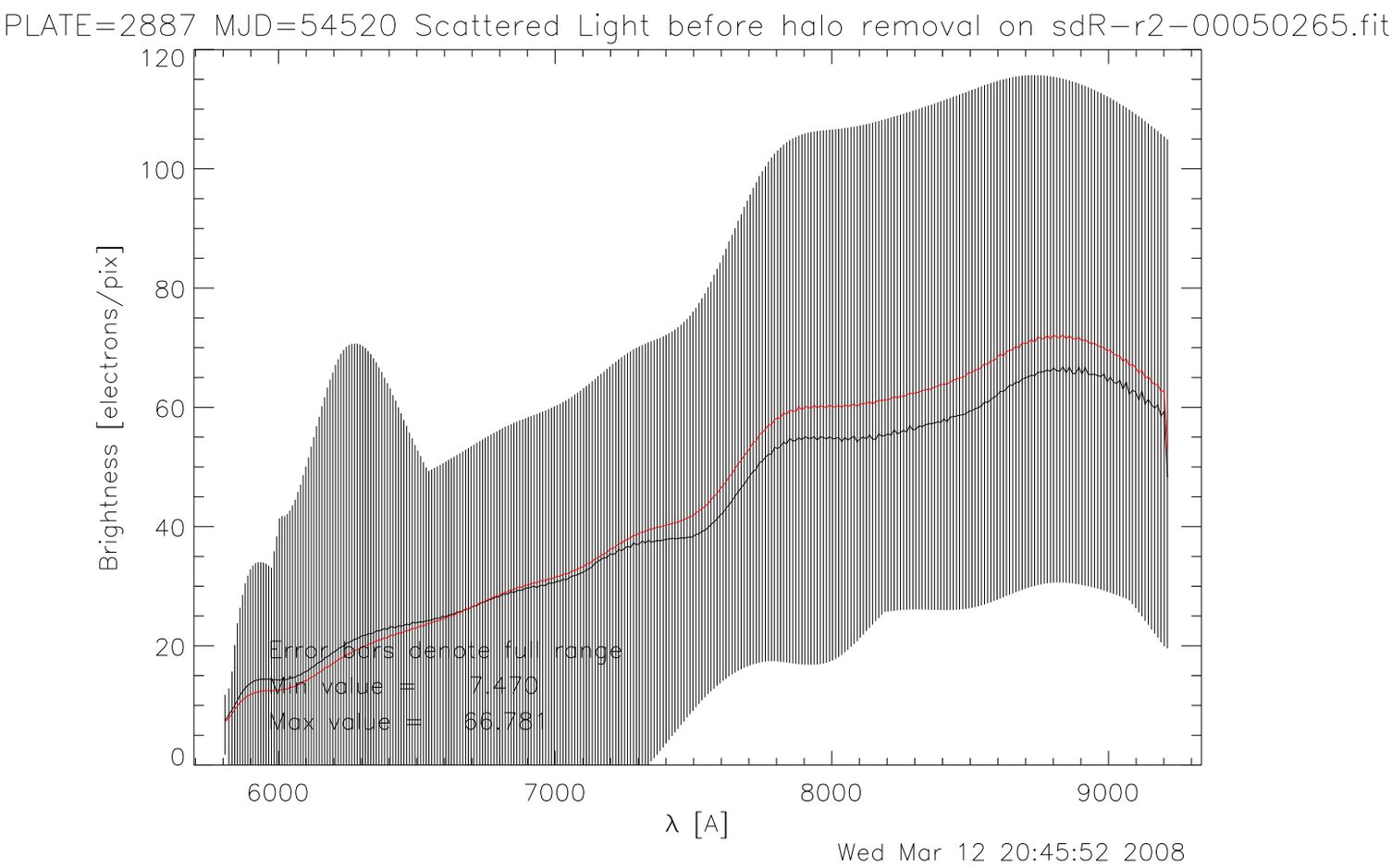

Number of sky fibers = 11
PLATE=2887 MJD=54520 sdR-r2-00050264.fit 2D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

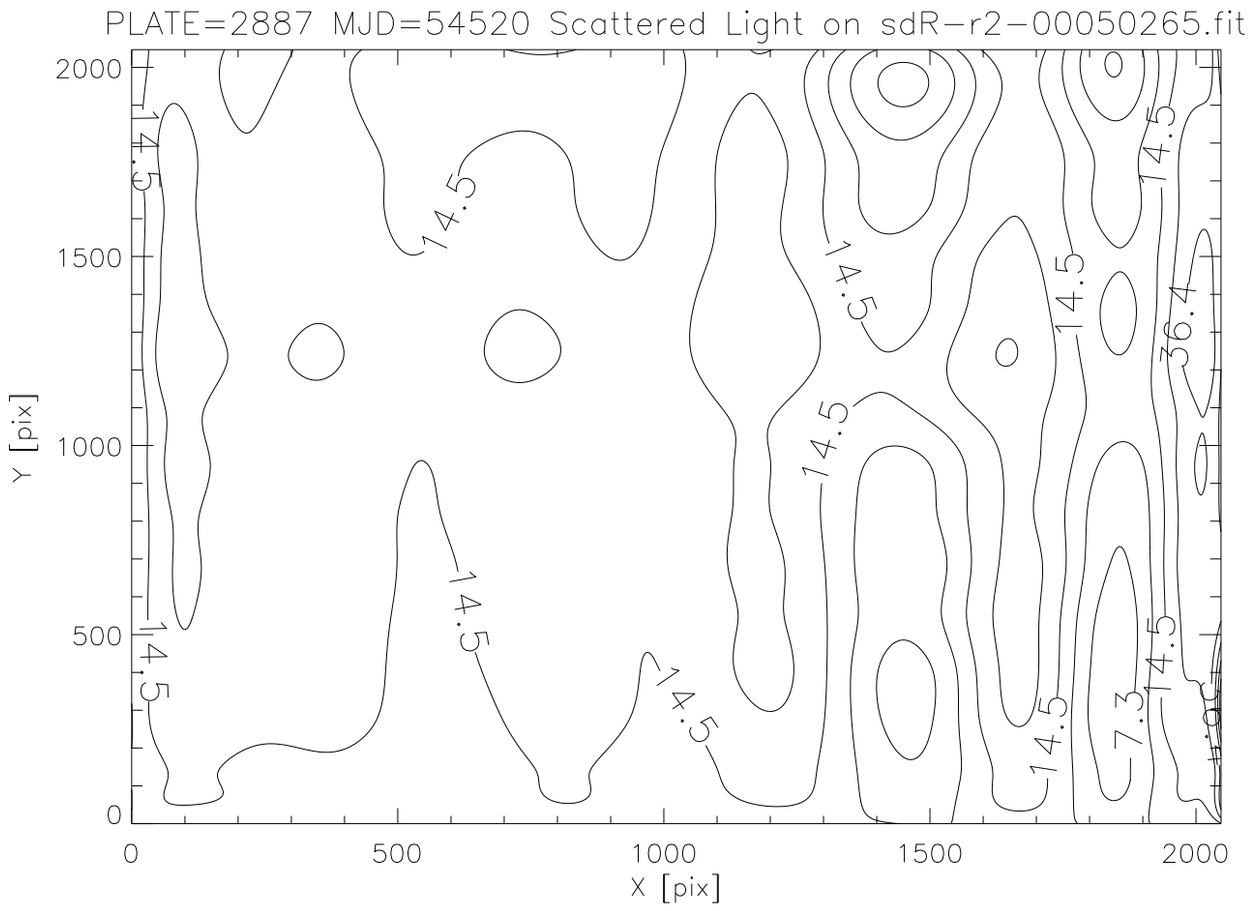

PLATE=2887 MJD=54520 sdR-r2-00050264.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
RED = Sky fiber
Dispersion = 5.80 %
Fiber number
Focal Distance [mm]
Airmass

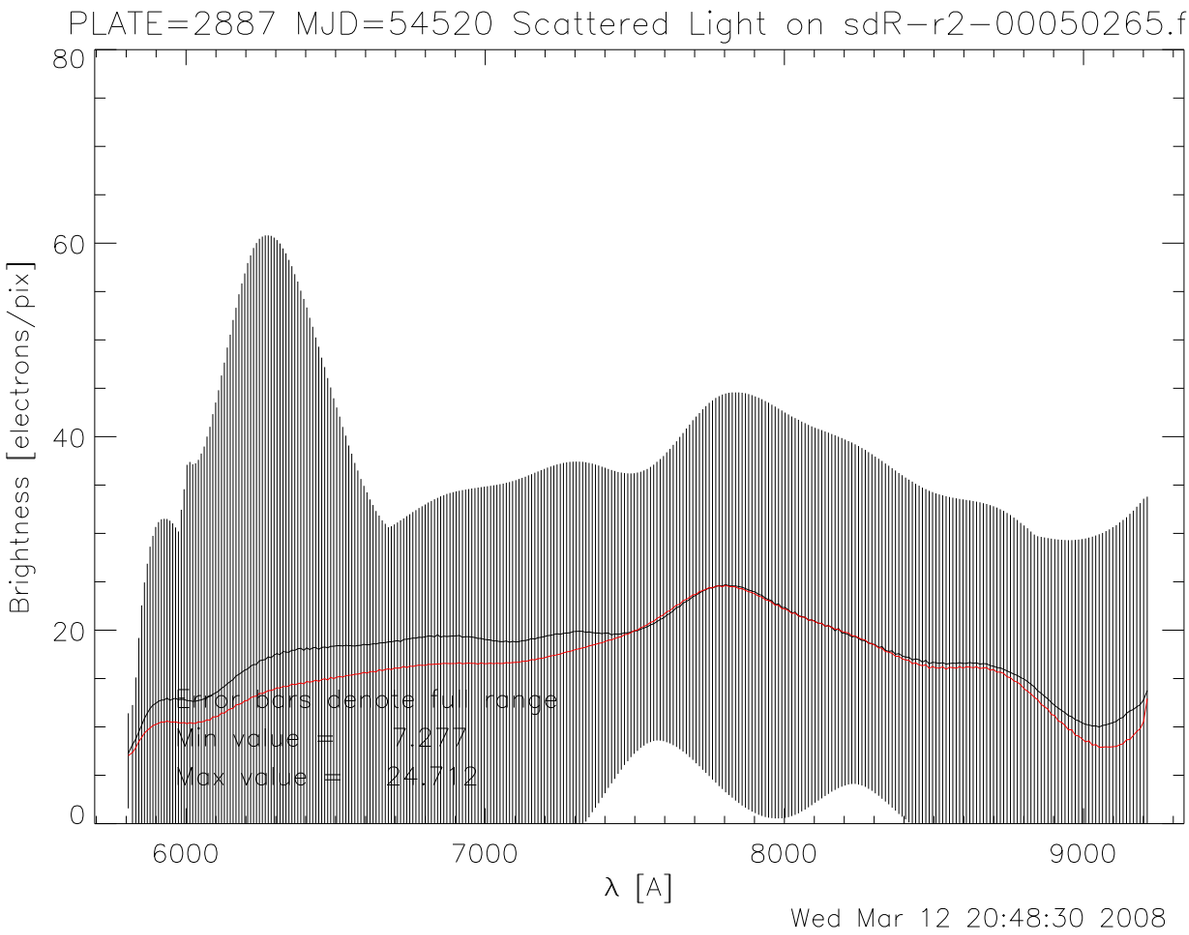

PLATE=2887 MJD=54520 sdR-r2-00050264.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 2.06 %
Fiber number
Focal Distance [mm]
Airmass

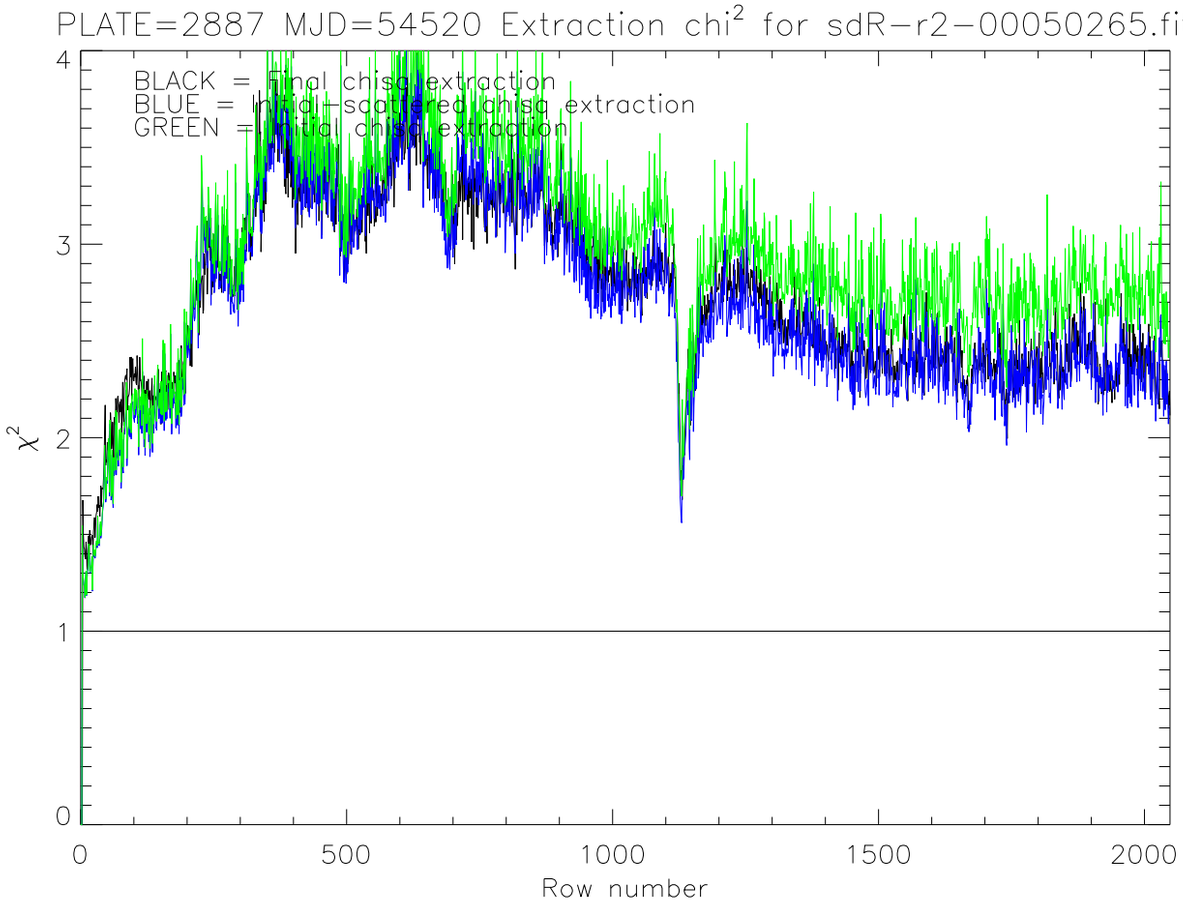

PLATE=2887 MJD=54520 Fiber-Flats for sdR-r2-00050262.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.651
Max value = 1.227
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Wed Mar 12 20:44:45 2008

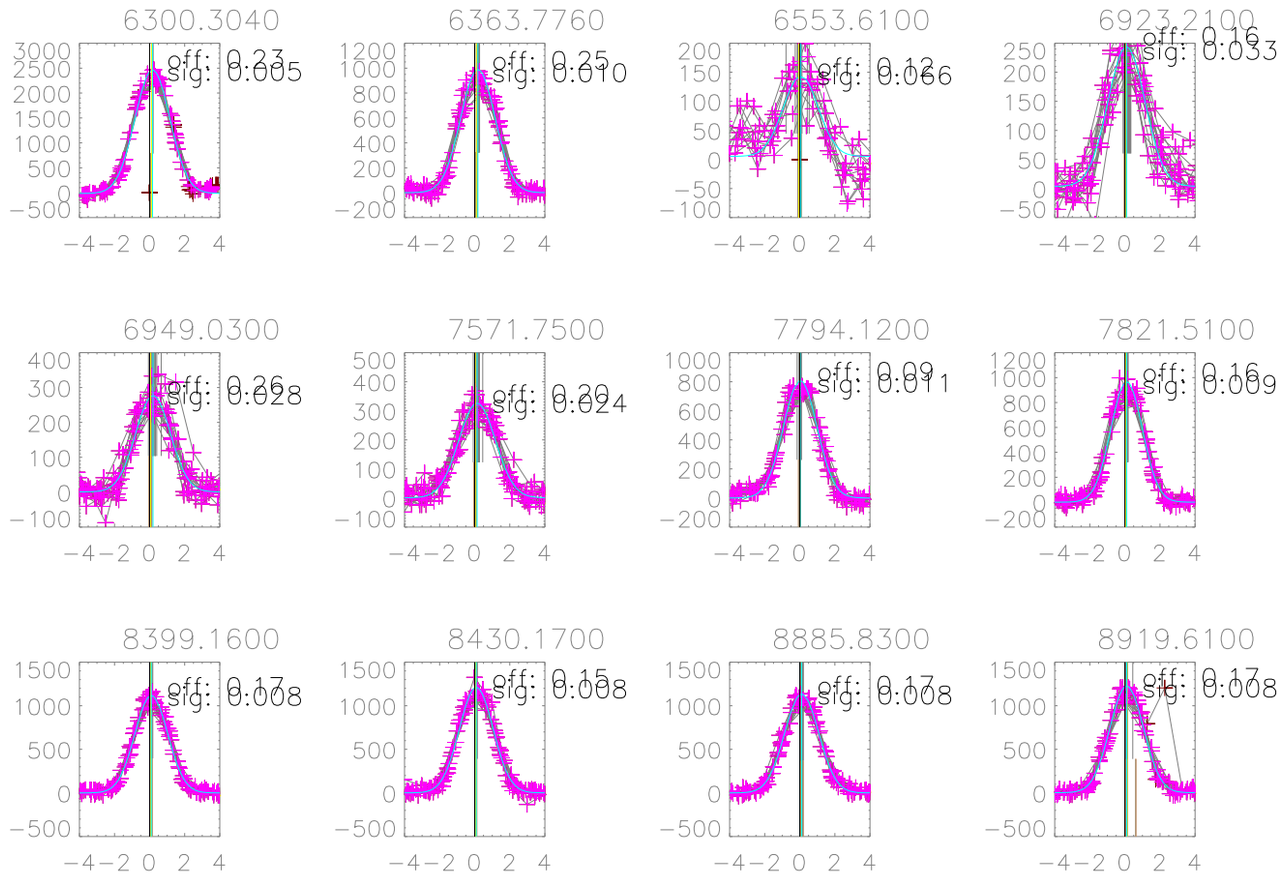

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r2-00050265.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0
40.91
77.27
4.55

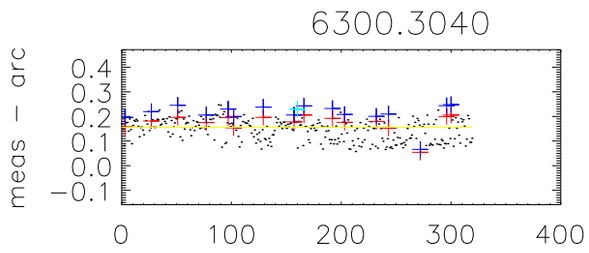

PLATE=2887 MJD=54520 Scattered Light before halo removal on sdR-r2-00050265.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.470
Max value = 66.781
Wed Mar 12 20:45:52 2008

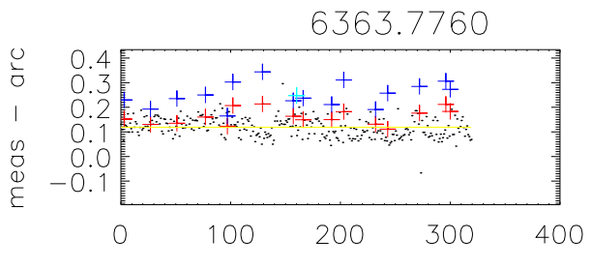

PLATE=2887 MJD=54520 Scattered Light on sdR-r2-00050265.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
14.5
36.4
7.3

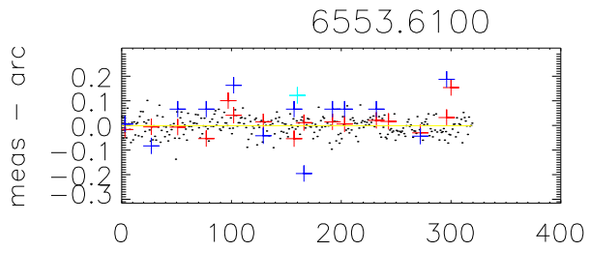

PLATE=2887 MJD=54520 Scattered Light on sdR-r2-00050265.fit
Brightness [electrons/pix]
λ [A]
Error bars denote full range
Min value = 7.277
Max value = 24.712
Wed Mar 12 20:48:30 2008

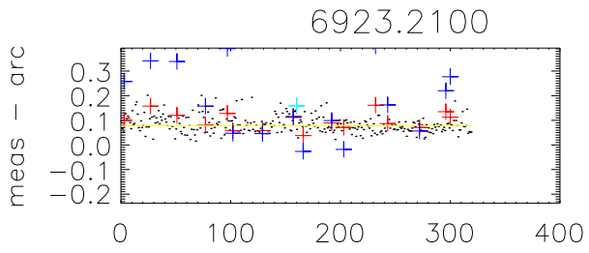

PLATE=2887 MJD=54520 Extraction chi^2 for sdR-r2-00050265.fit
BLACK = final chisq extraction
BLUE = initial-scattered chisq extraction
GREEN = initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

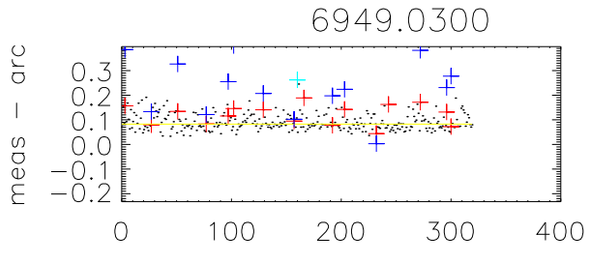

6300.3040
off: 0.23
sig: 0.005
6363.7760
off: 0.25
sig: 0.010
6553.6100
off: 0.12
sig: 0.066
6923.2100
off: 0.16
sig: 0.033
6949.0300
off: 0.26
sig: 0.028
7571.7500
off: 0.20
sig: 0.024
7794.1200
off: 0.09
sig: 0.011
7821.5100
off: 0.16
sig: 0.009
8399.1600
off: 0.17
sig: 0.008
8430.1700
off: 0.15
sig: 0.008
8885.8300
off: 0.17
sig: 0.008
8919.6100
off: 0.17
sig: 0.008

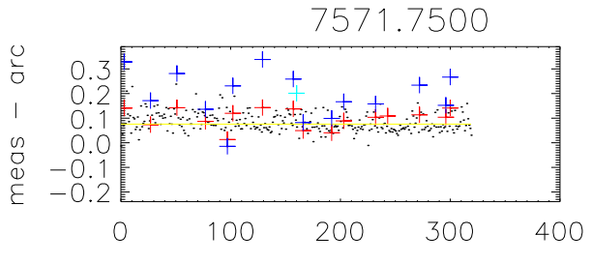

6300.3040
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

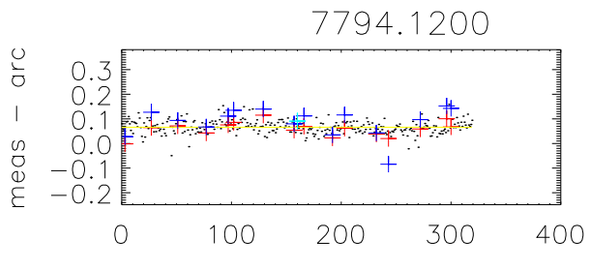

6363.7760
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

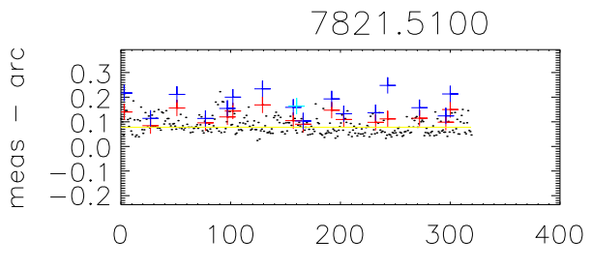

6553.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

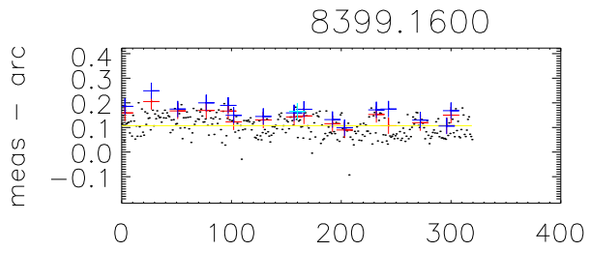

6923.2100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

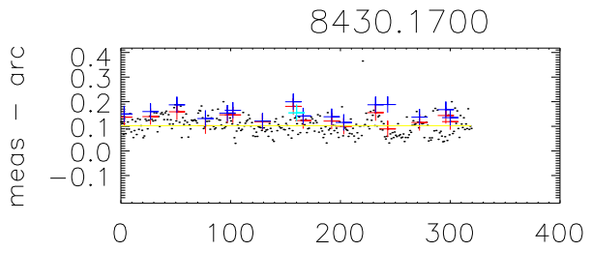

6949.0300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

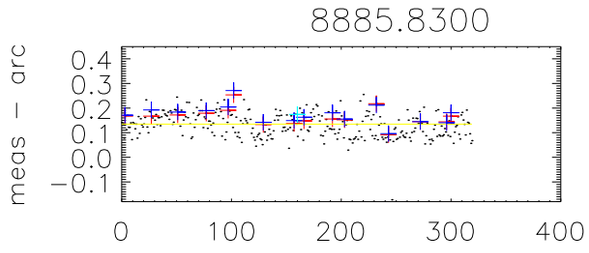

7571.7500
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

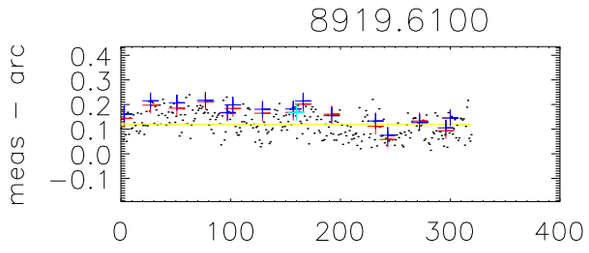

7794.1200
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

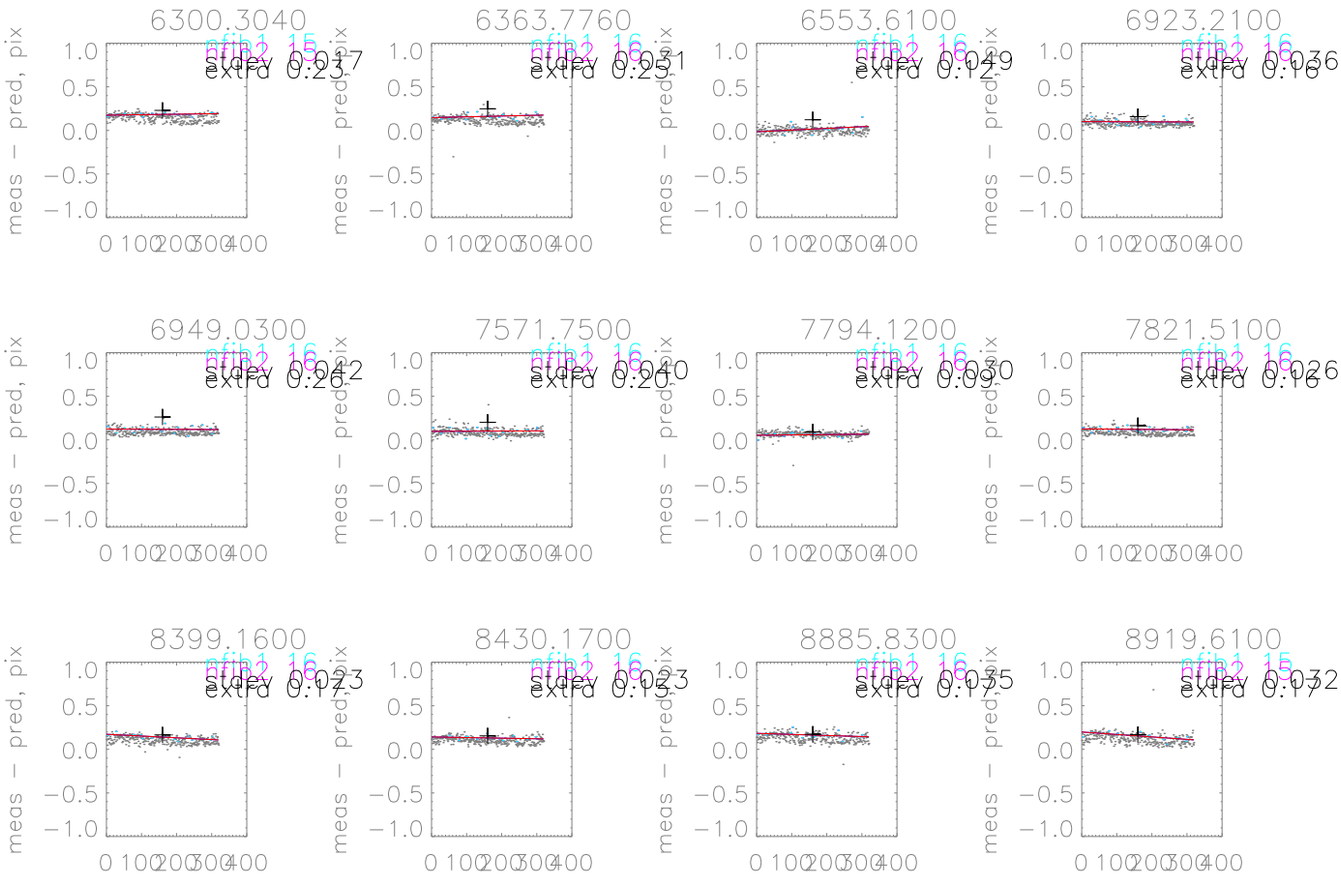

7821.5100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

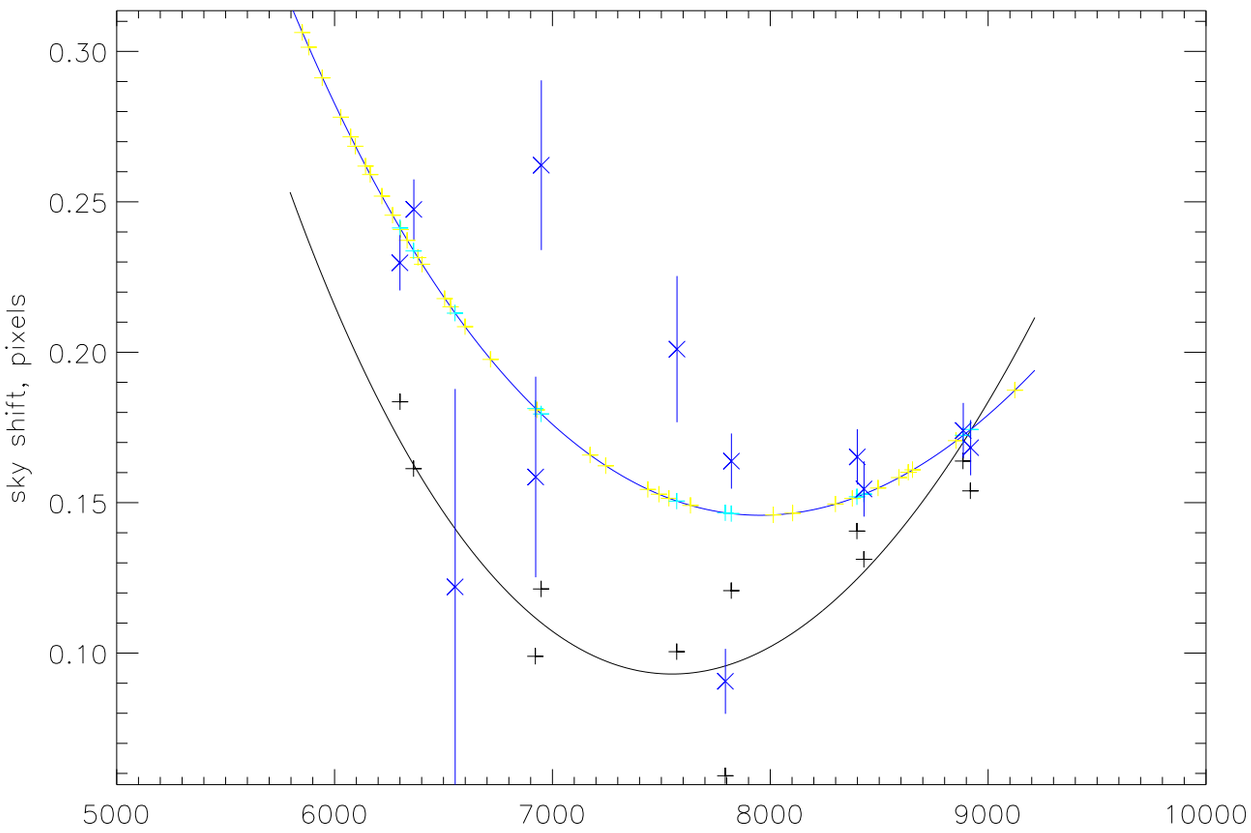

8399.1600
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

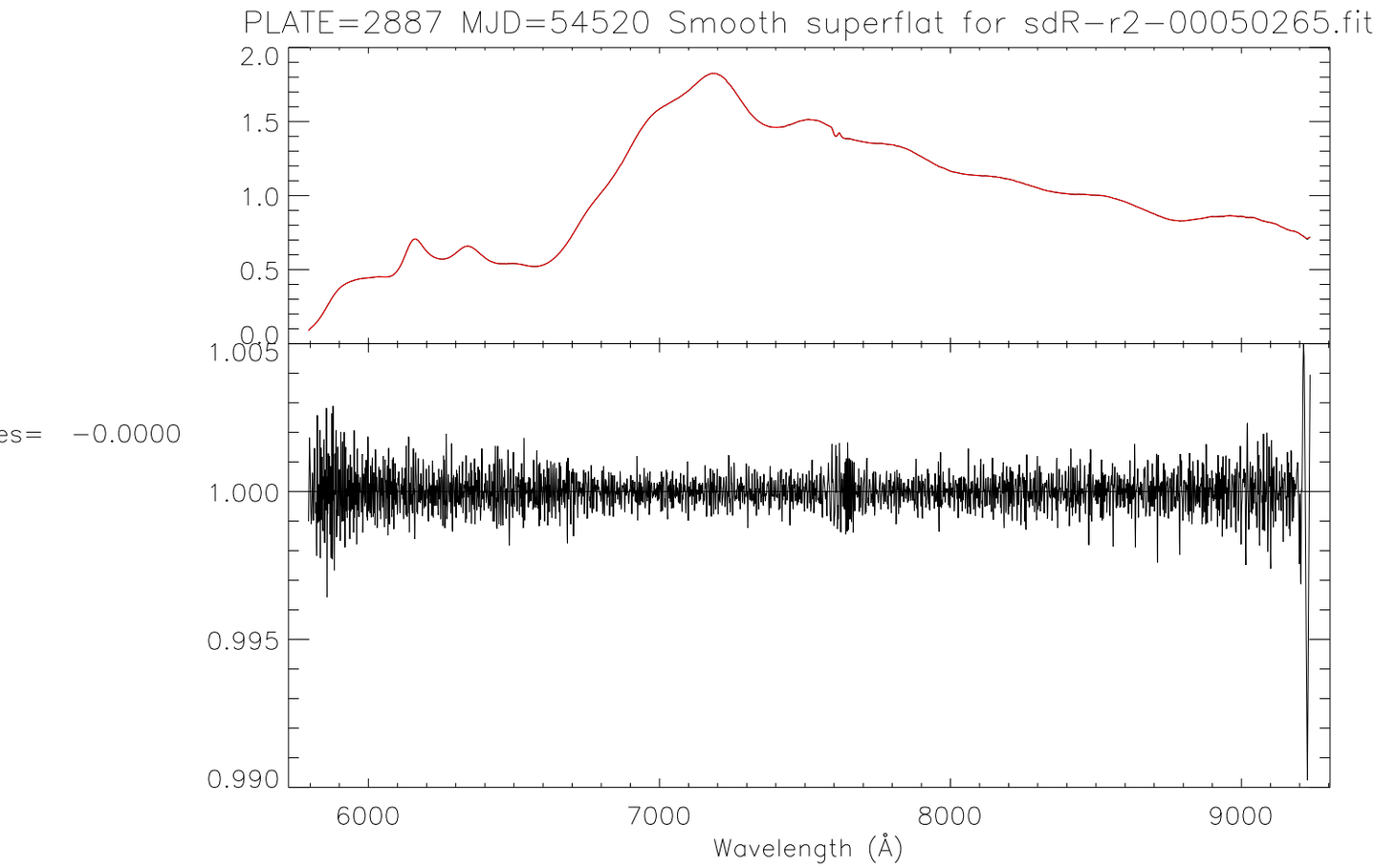

8430.1700
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

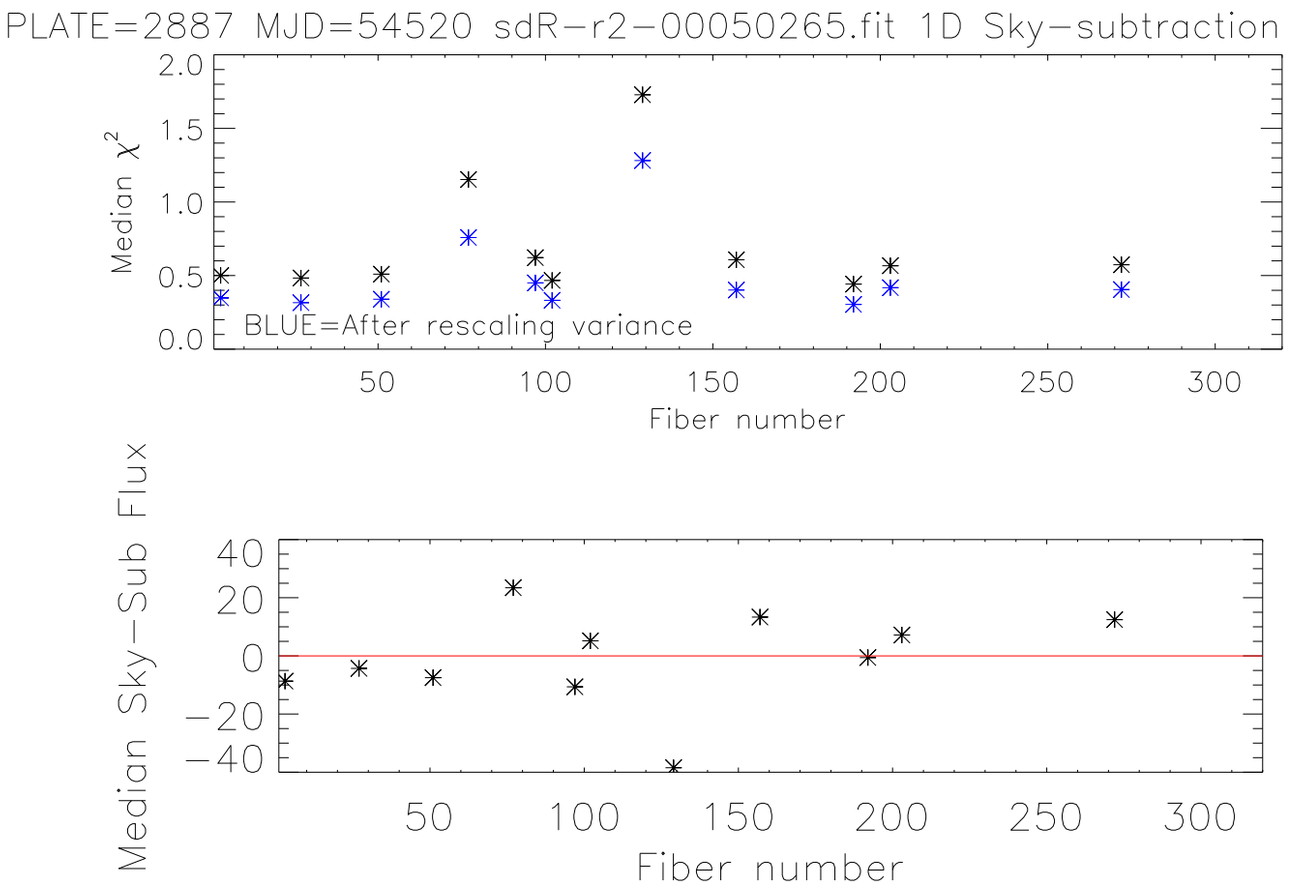

8885.8300
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

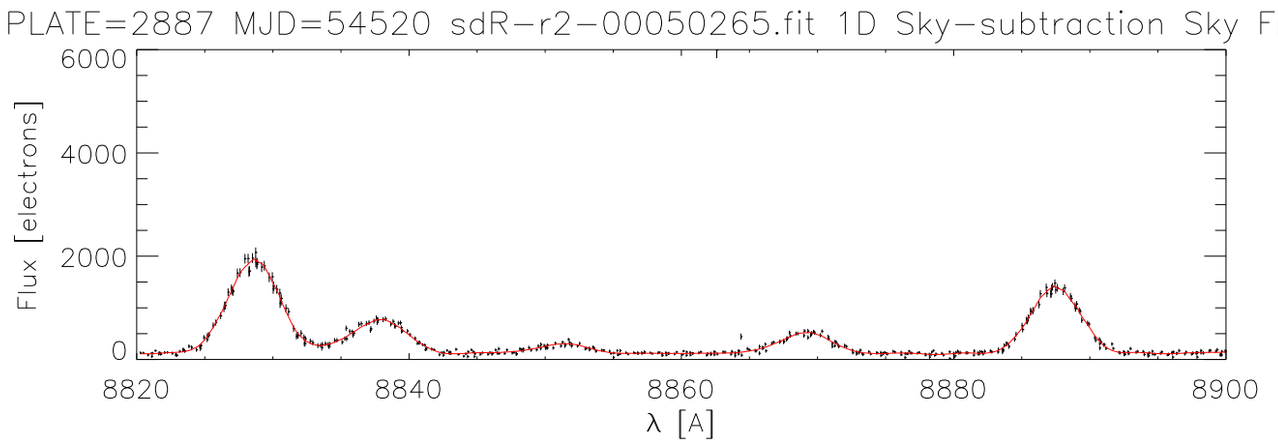

8919.6100
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

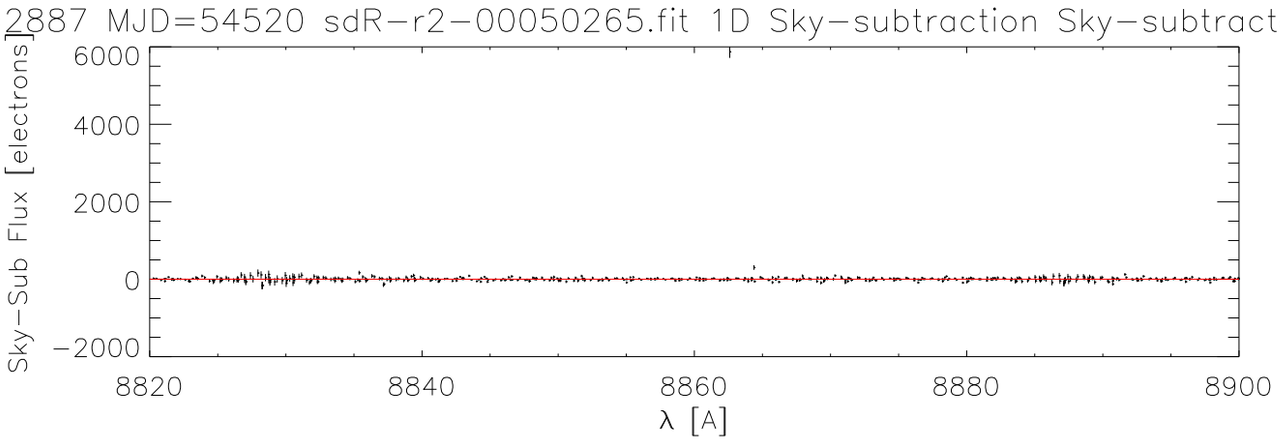

6300.3040
stdev 0.017
extra 0.237
6363.7760
stdev 0.021
extra 0.251
6553.6100
stdev 0.029
extra 0.12
6923.2100
stdev 0.036
extra 0.16
6949.0300
stdev 0.042
extra 0.26
7571.7500
stdev 0.040
extra 0.20
7794.1200
stdev 0.030
extra 0.09
7821.5100
stdev 0.026
extra 0.16
8399.1600
stdev 0.023
extra 0.17
8430.1700
stdev 0.023
extra 0.15
8885.8300
stdev 0.025
extra 0.17
8919.6100
stdev 0.032
extra 0.17
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

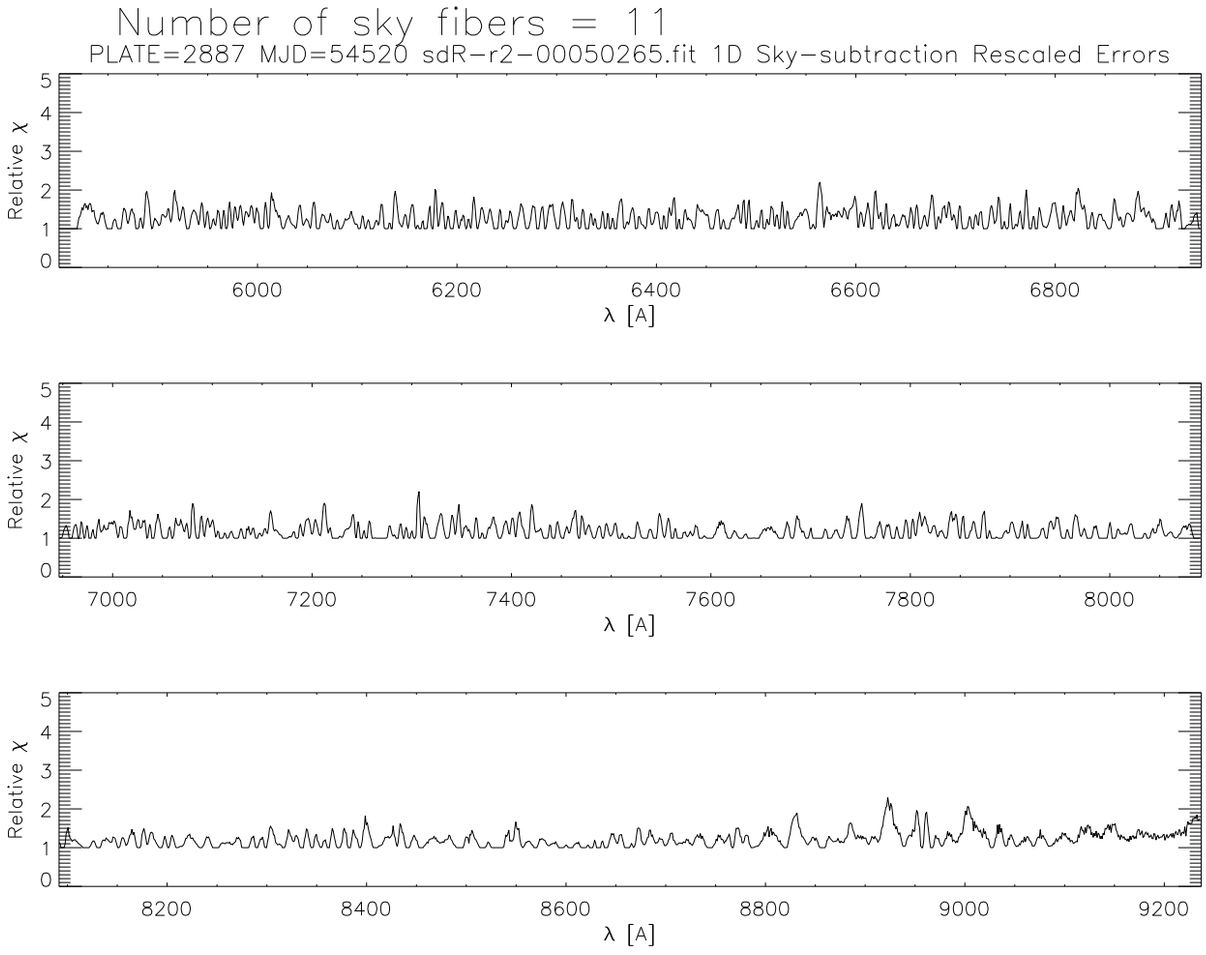

0.30
0.25
0.20
0.15
0.10
sky shift, pixels
5000
6000
7000
8000
9000
10000

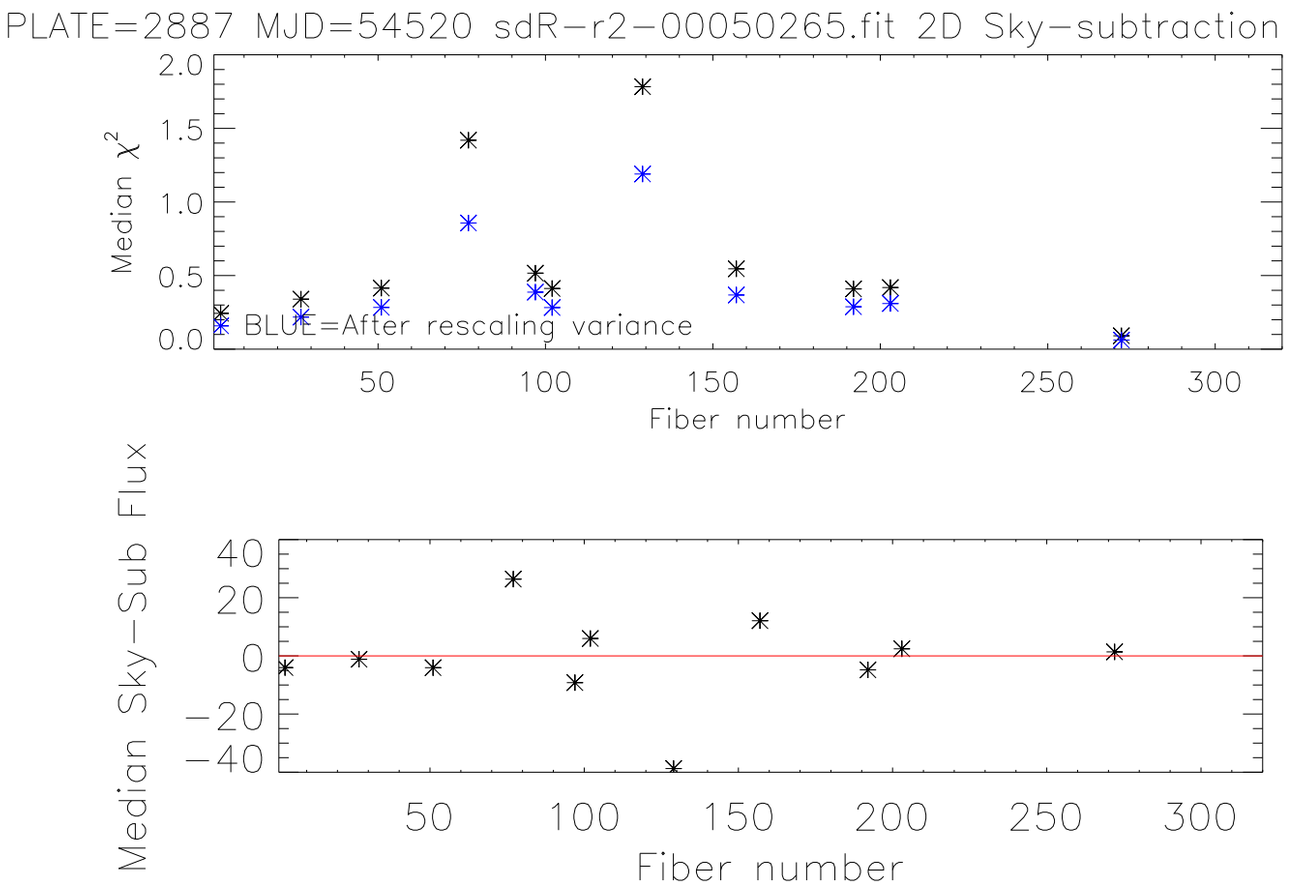

PLATE=2887 MJD=54520 Smooth superflat for sdR-r2-00050265.fit
2.0
1.5
1.0
0.5
0.0
1.005
1.000
0.995
0.990
es= -0.0000
6000
7000
8000
9000
Wavelength (Å)

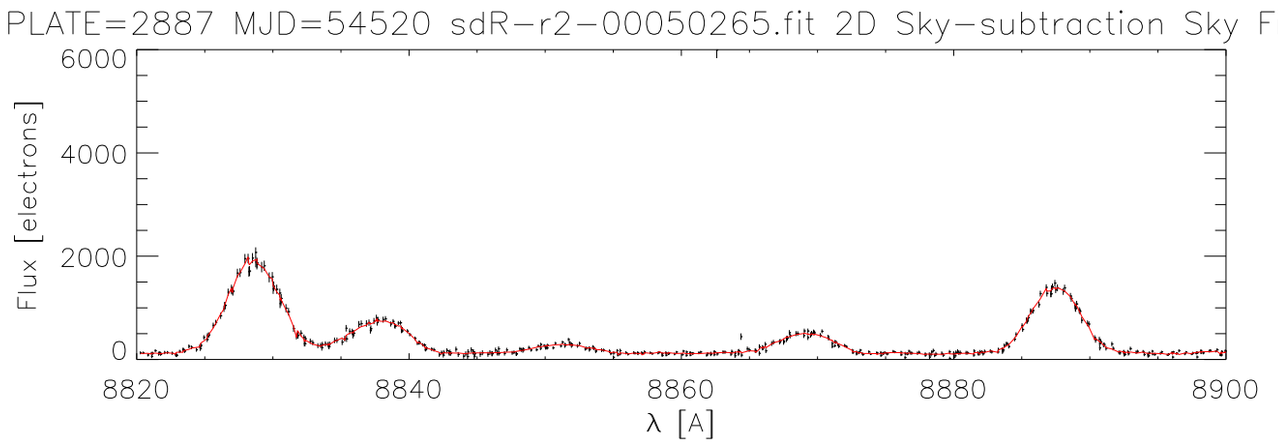

PLATE=2887 MJD=54520 sdR-r2-00050265.fit 1D Sky-subtraction Sky Fibers
Median χ^2
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
40
20
0
-20
-40
50
100
150
200
250
300
Fiber number

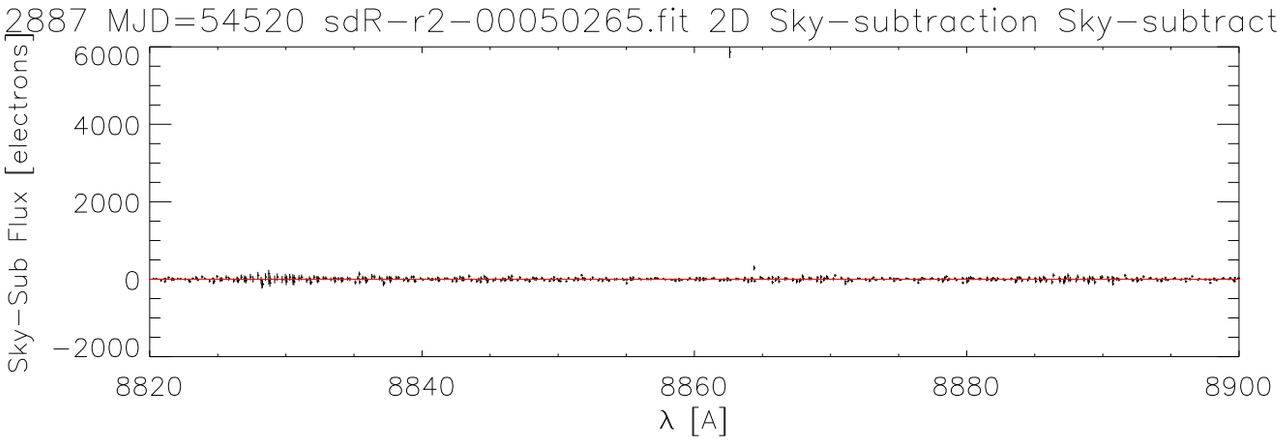

PLATE=2887 MJD=54520 sdR-r2-00050265.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]

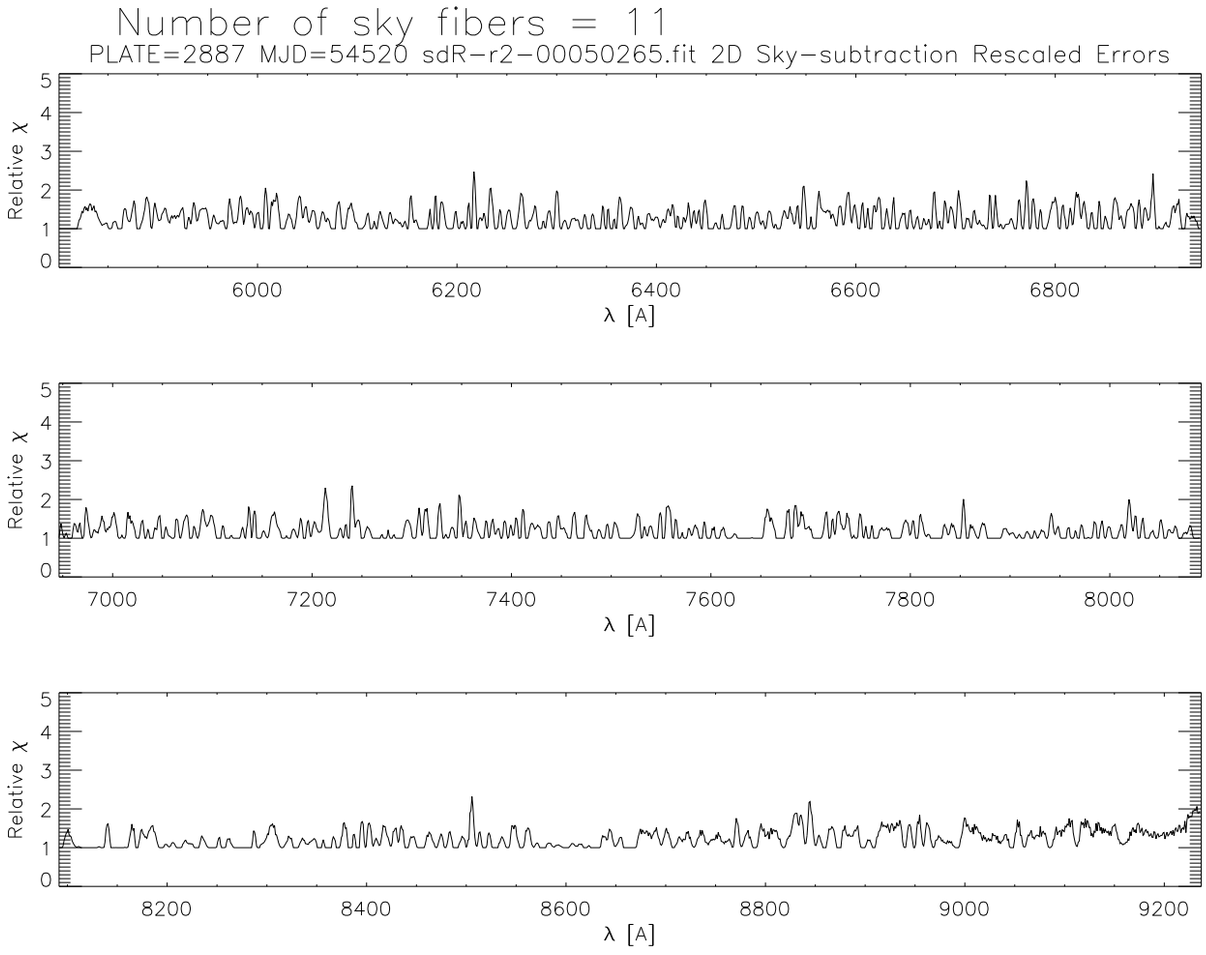

PLATE=2887 MJD=54520 sdR-r2-00050265.fit 1D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]

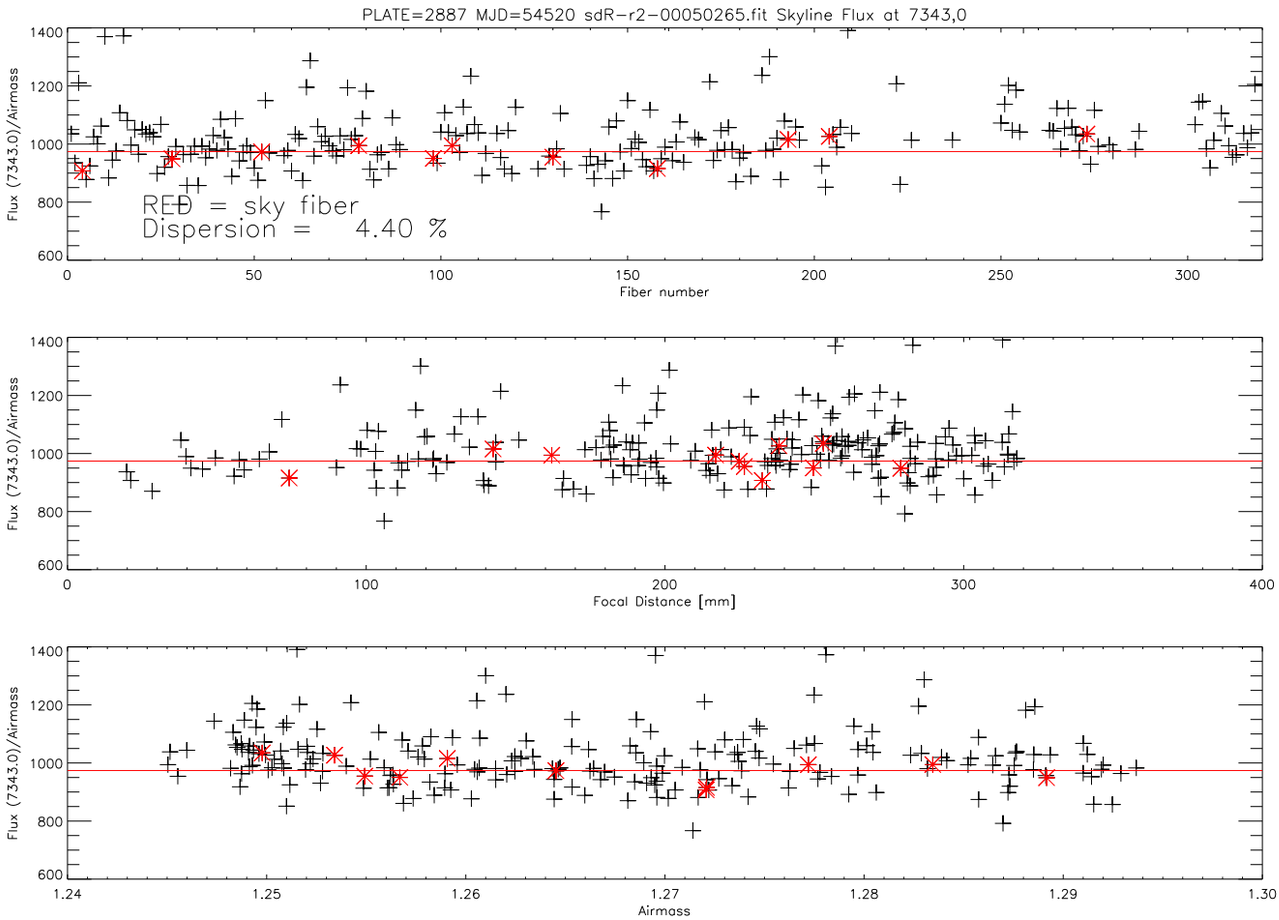

Number of sky fibers = 11
PLATE=2887 MJD=54520 sdR-r2-00050265.fit 1D Sky-subtraction Rescaled Errors
Relative χ
λ [A]
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
0
1
2
3
4
5

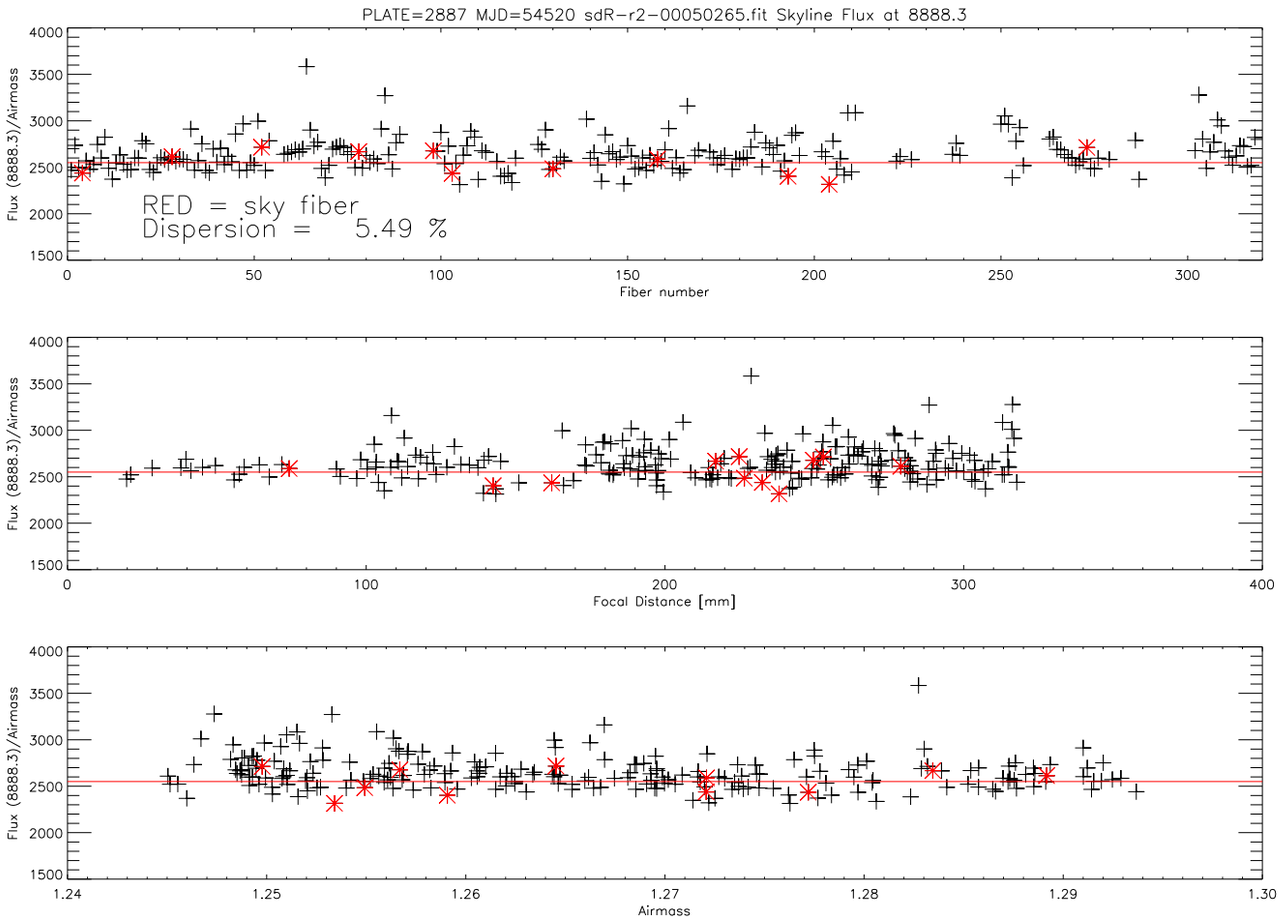

PLATE=2887 MJD=54520 sdR-r2-00050265.fit 2D Sky-subtraction Sky Fibers
Median χ^2
BLUE=After rescaling variance
Fiber number
Median Sky-Sub Flux
Fiber number


PLATE=2887 MJD=54520 sdR-r2-00050265.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
6000
4000
2000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=2887 MJD=54520 sdR-r2-00050265.fit 2D Sky-subtraction Sky-subtracted Sky Fibers
Sky-Sub Flux [electrons]
6000
4000
2000
0
-2000
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 11
PLATE=2887 MJD=54520 sdR-r2-00050265.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=2887 MJD=54520 sdR-r2-00050265.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
Fiber number
RED = sky fiber
Dispersion = 4.40 %
Flux (7343.0)/Airmass
Focal Distance [mm]
Flux (7343.0)/Airmass
Airmass


PLATE=2887 MJD=54520 sdR-r2-00050265.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 5.49 %
Fiber number
Focal Distance [mm]
Airmass