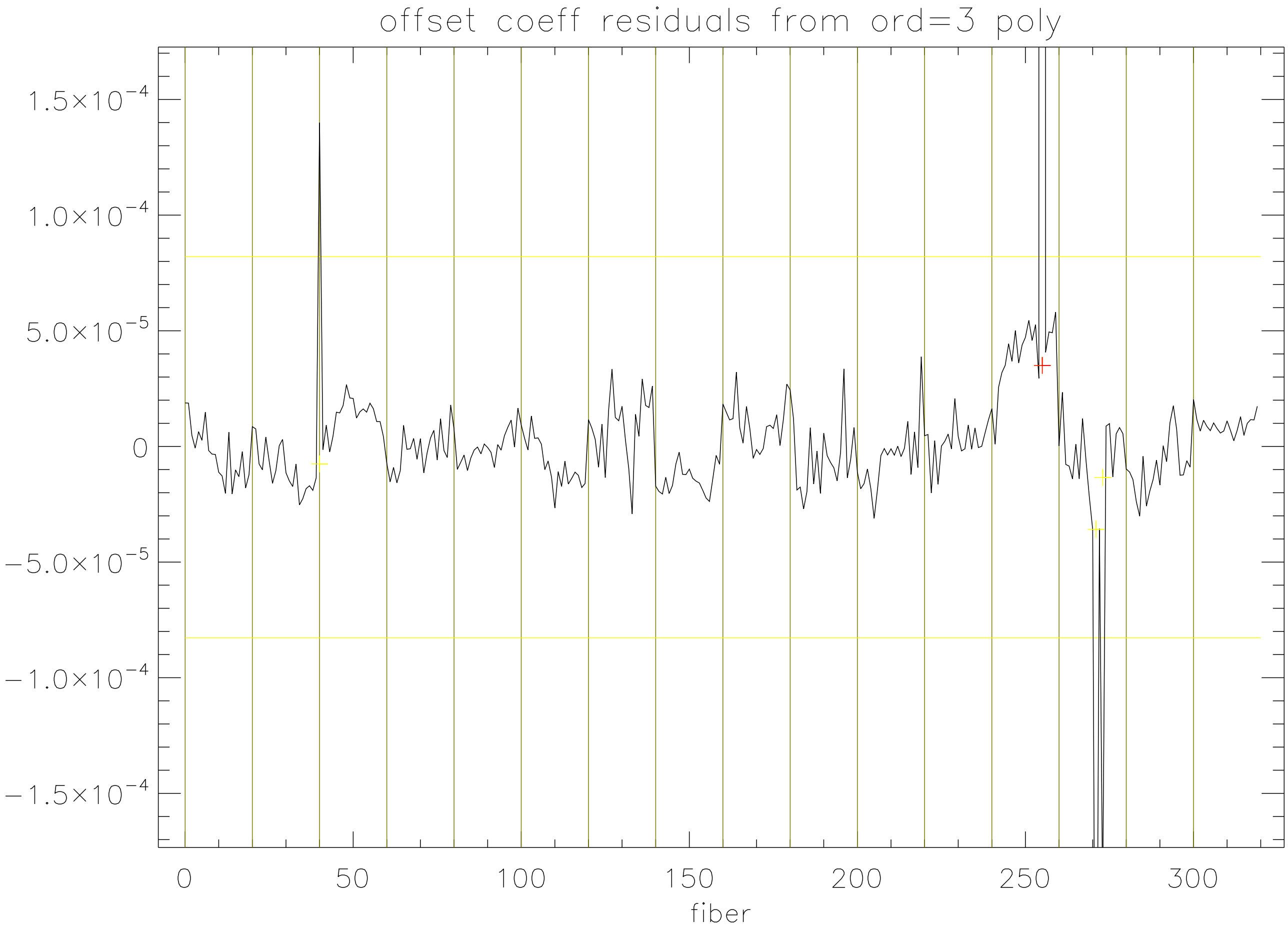
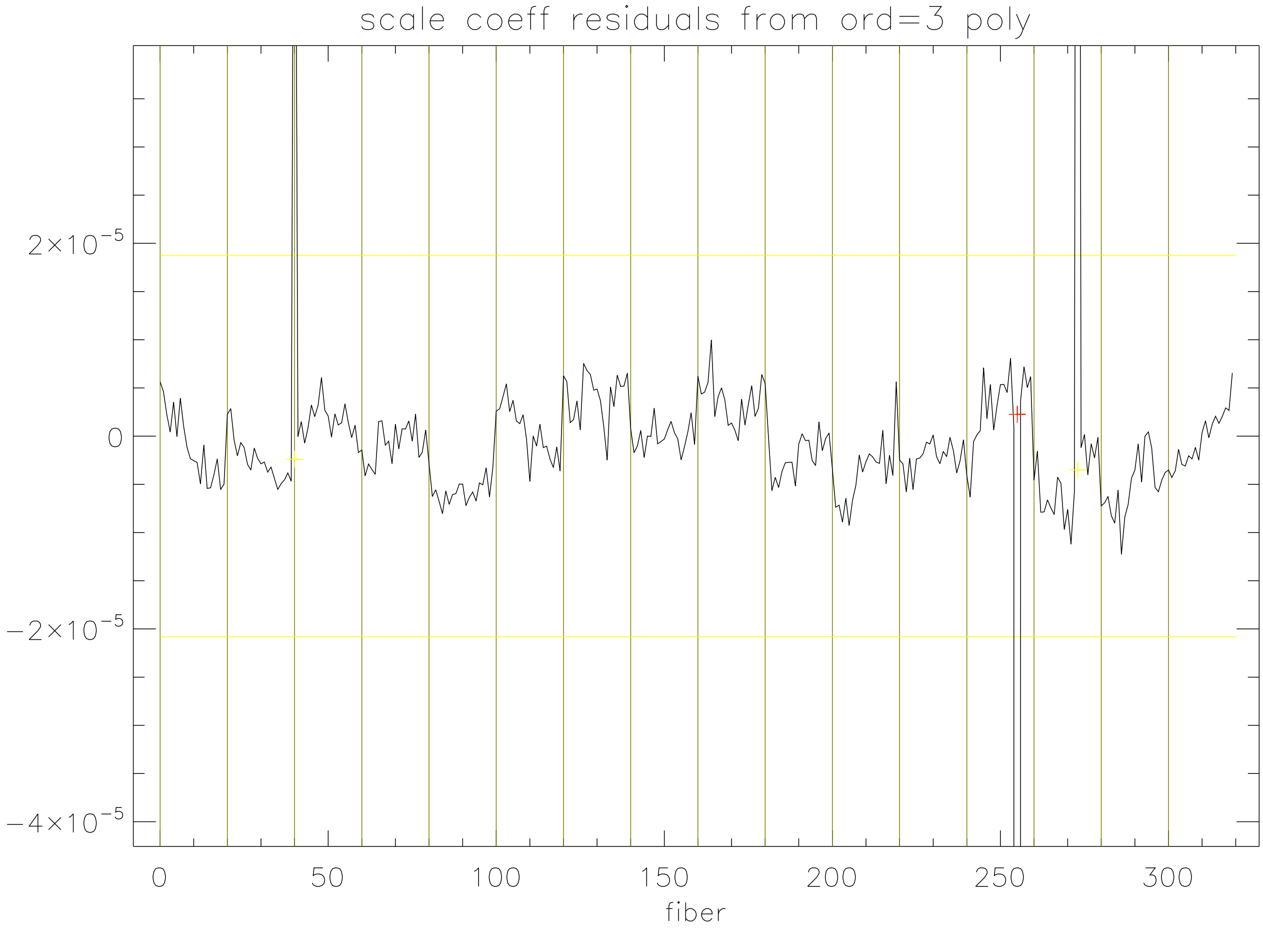
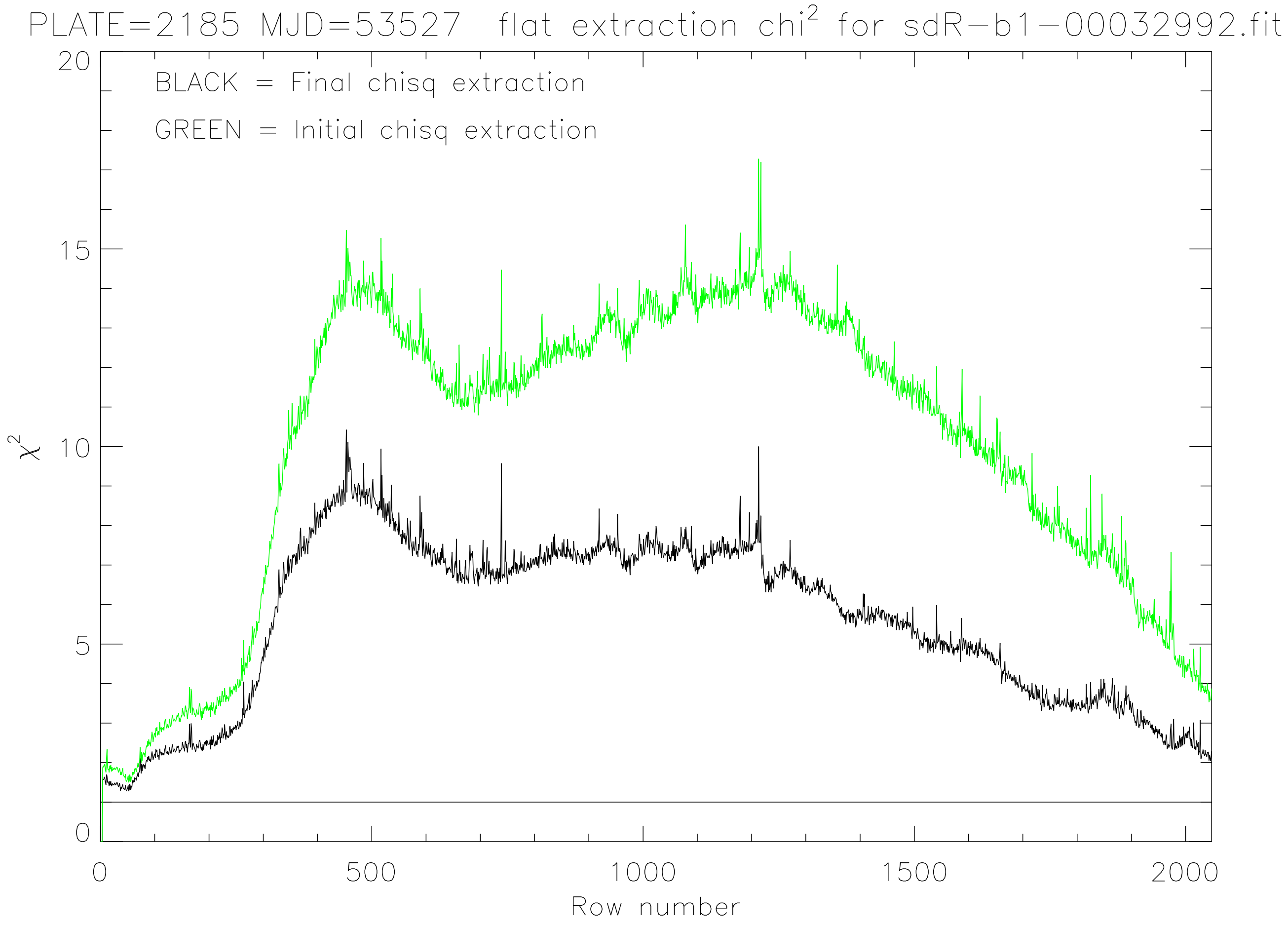
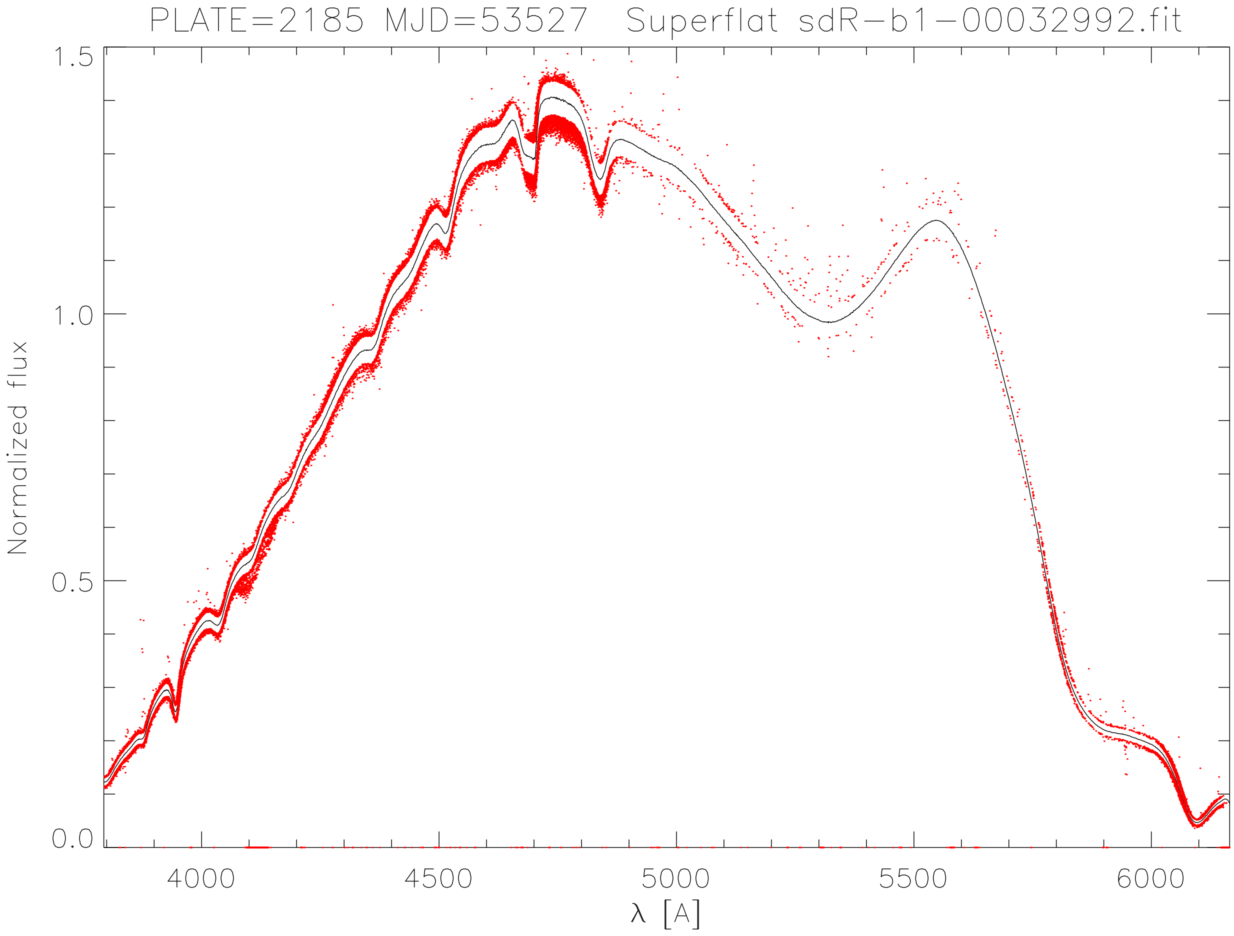
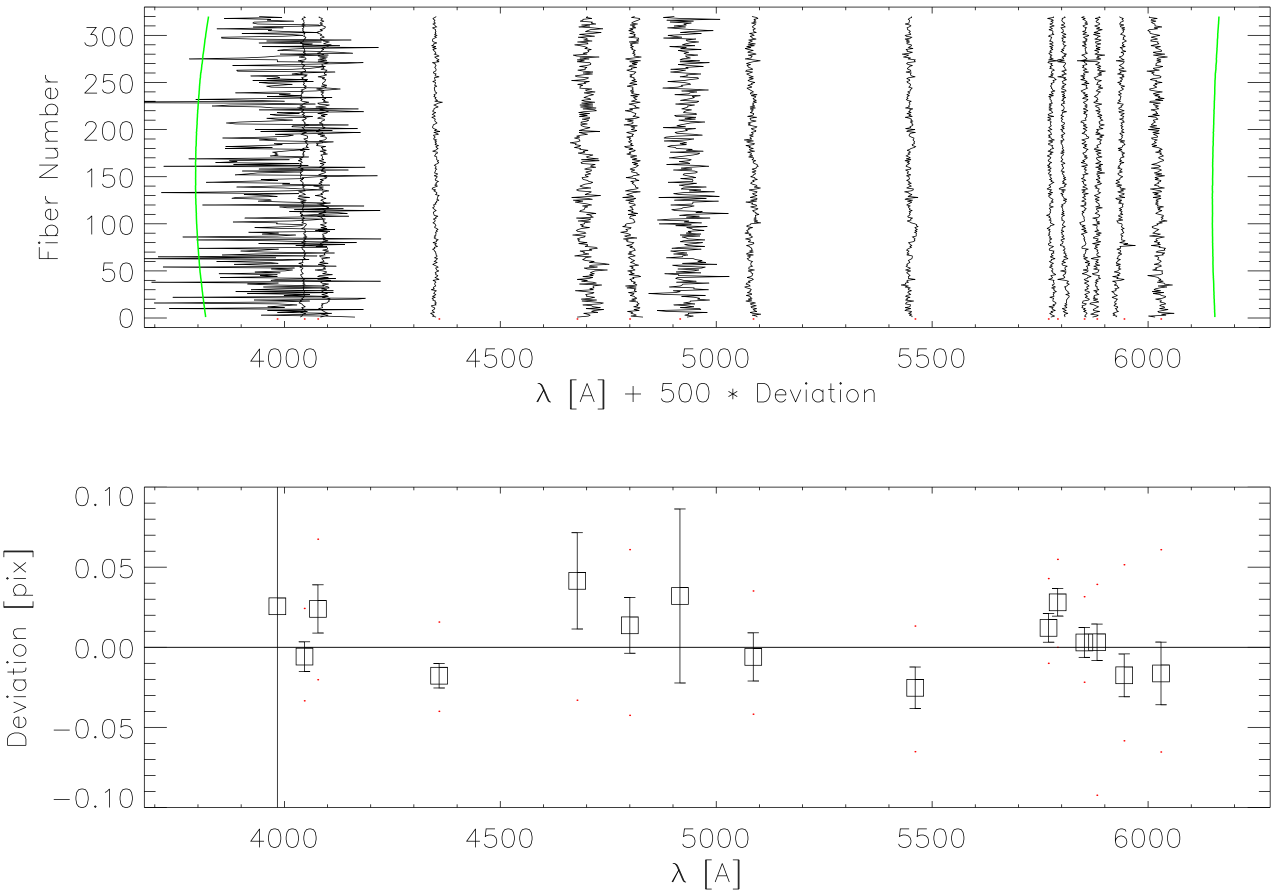

offset coeff residuals from ord=3 poly
1.5×10^{-4}
1.0×10^{-4}
5.0×10^{-5}
0
-5.0×10^{-5}
-1.0×10^{-4}
-1.5×10^{-4}
0
50
100
150
200
250
300
fiber


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


PLATE=2185 MJD=53527 flat extraction chi^2 for sdR-b1-00032992.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
20
0
500
1000
1500
2000
Row number


PLATE=2185 MJD=53527 Superflat sdR-b1-00032992.fit
Normalized flux
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000
λ [A]

PLATE=2185 MJD=53527 Arcline Fit for sdR-b1-00032993.fit



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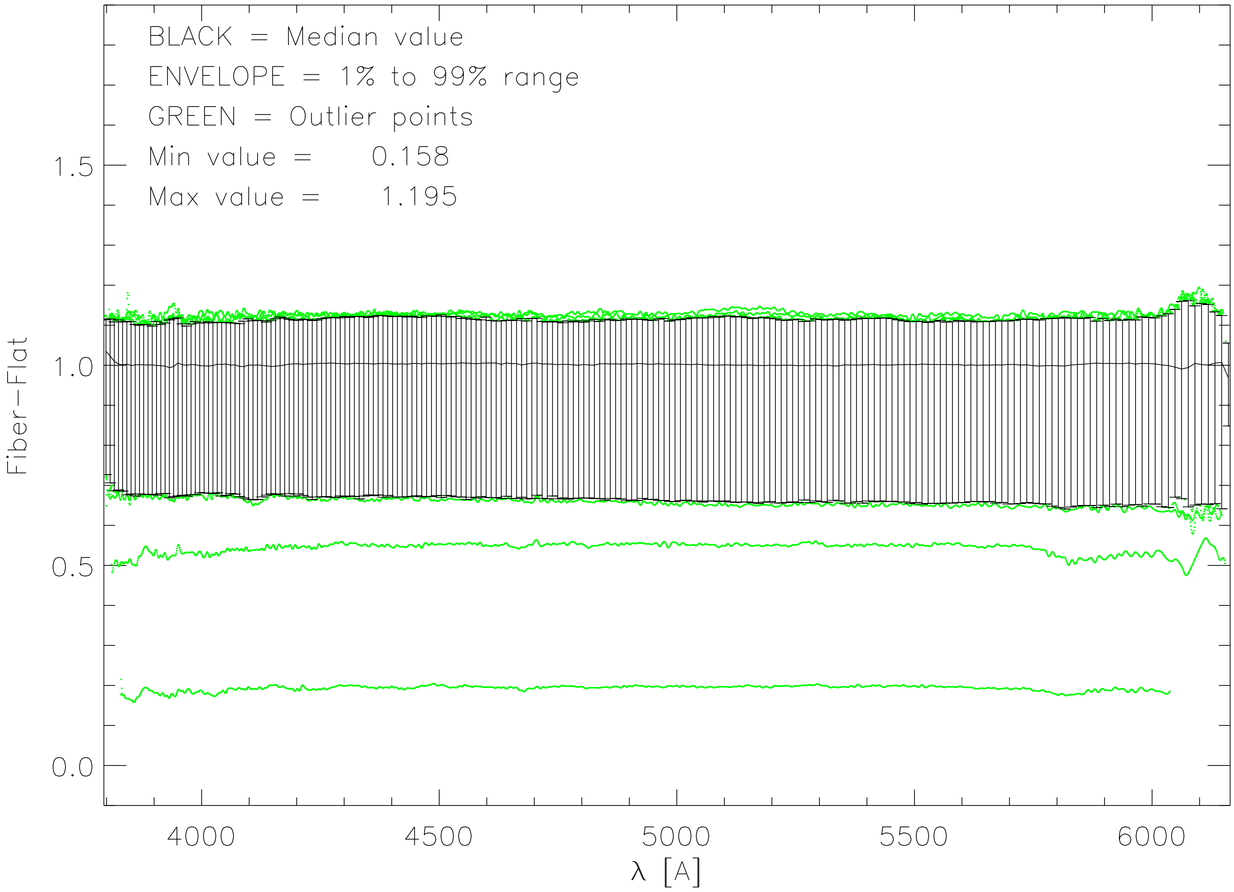
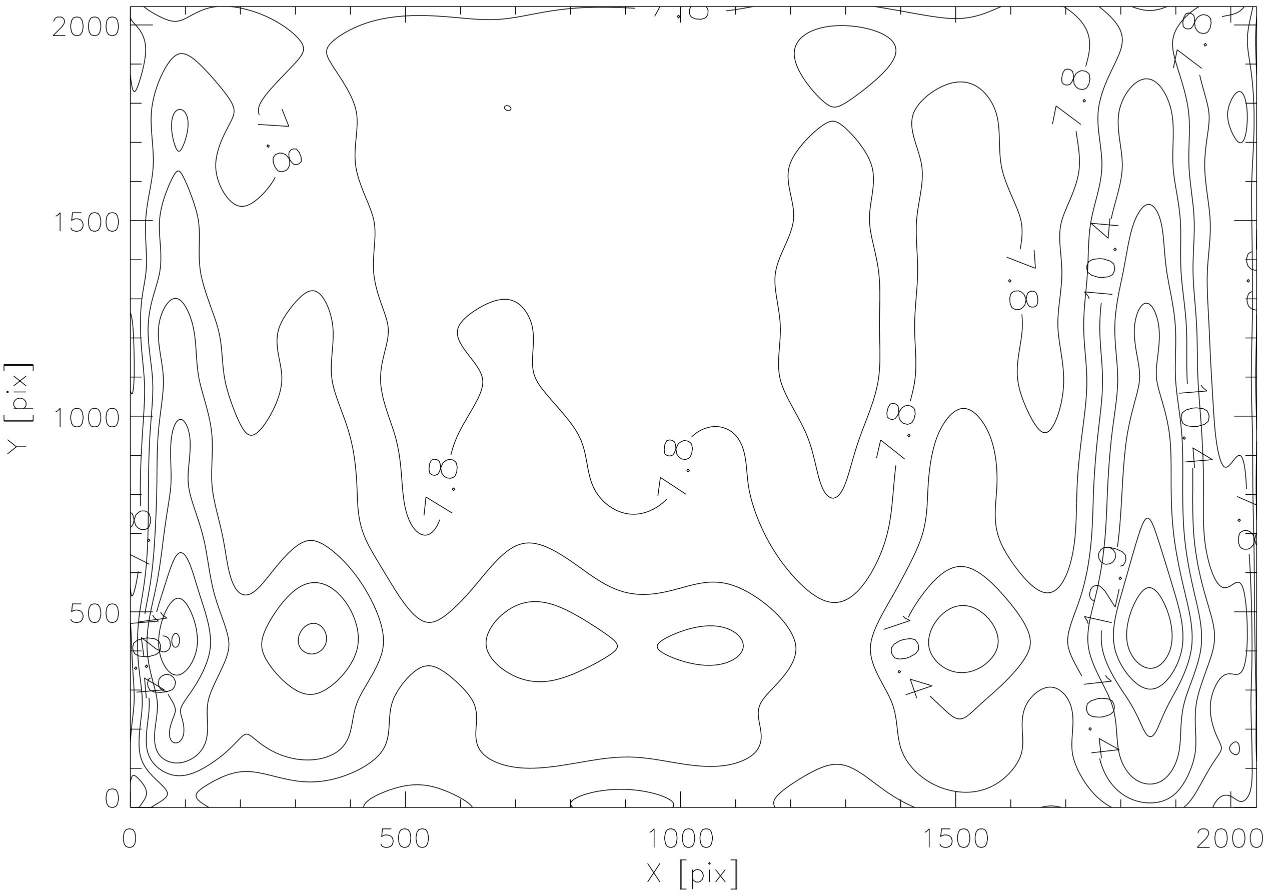
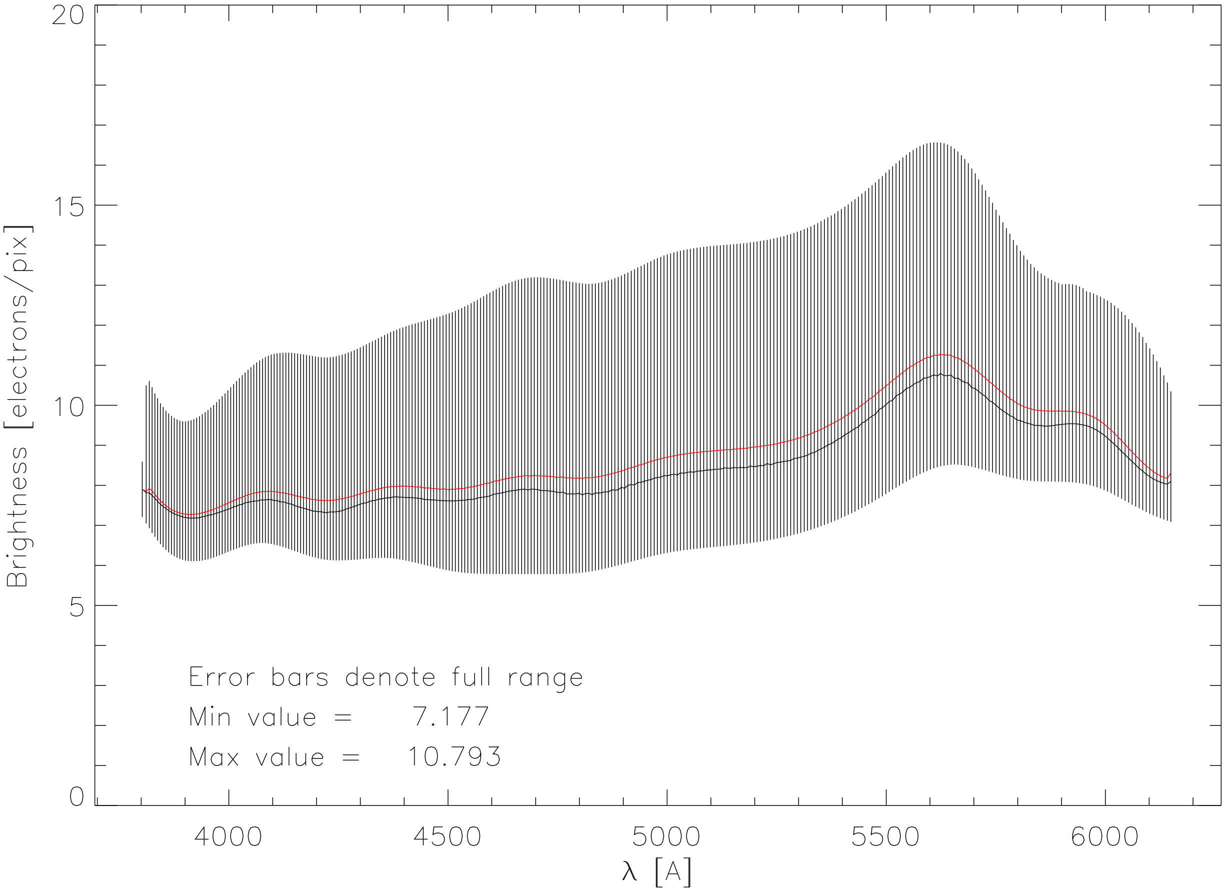
PLATE=2185 MJD=53527 Fiber-Flats for sdR-b1-00032992.fit



Mon Feb 11 01:08:04 2008

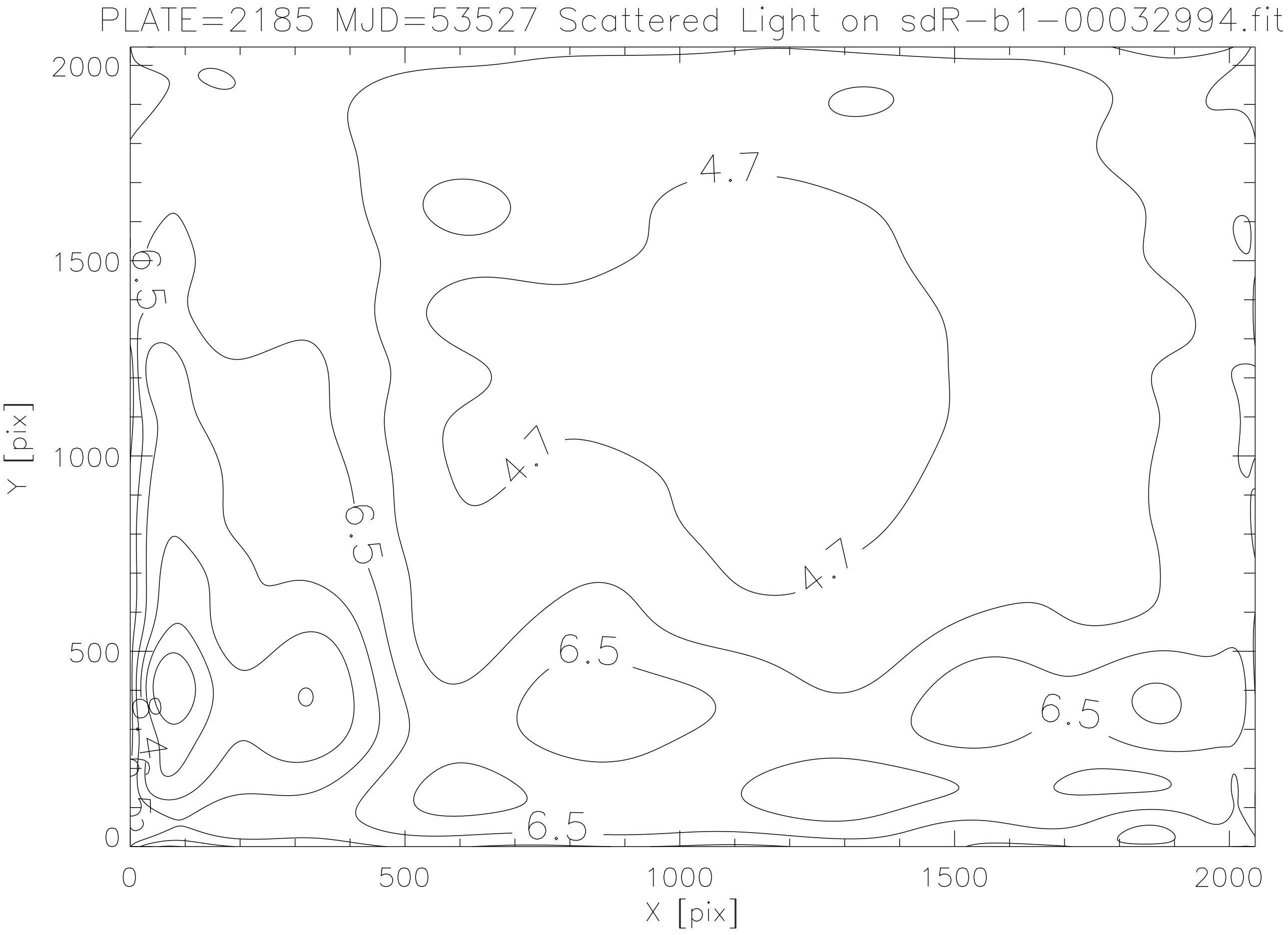


PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-b1-00032994.f

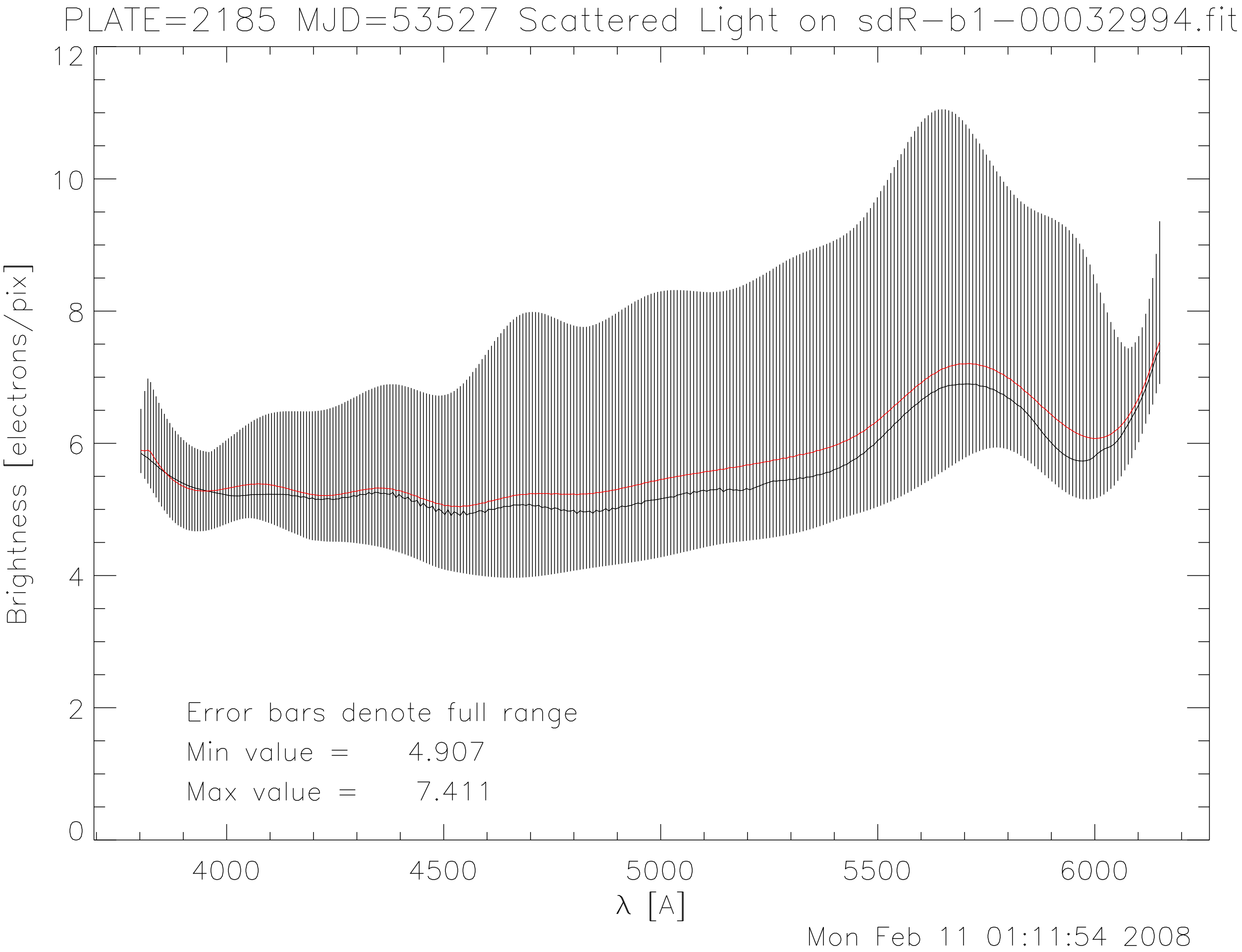


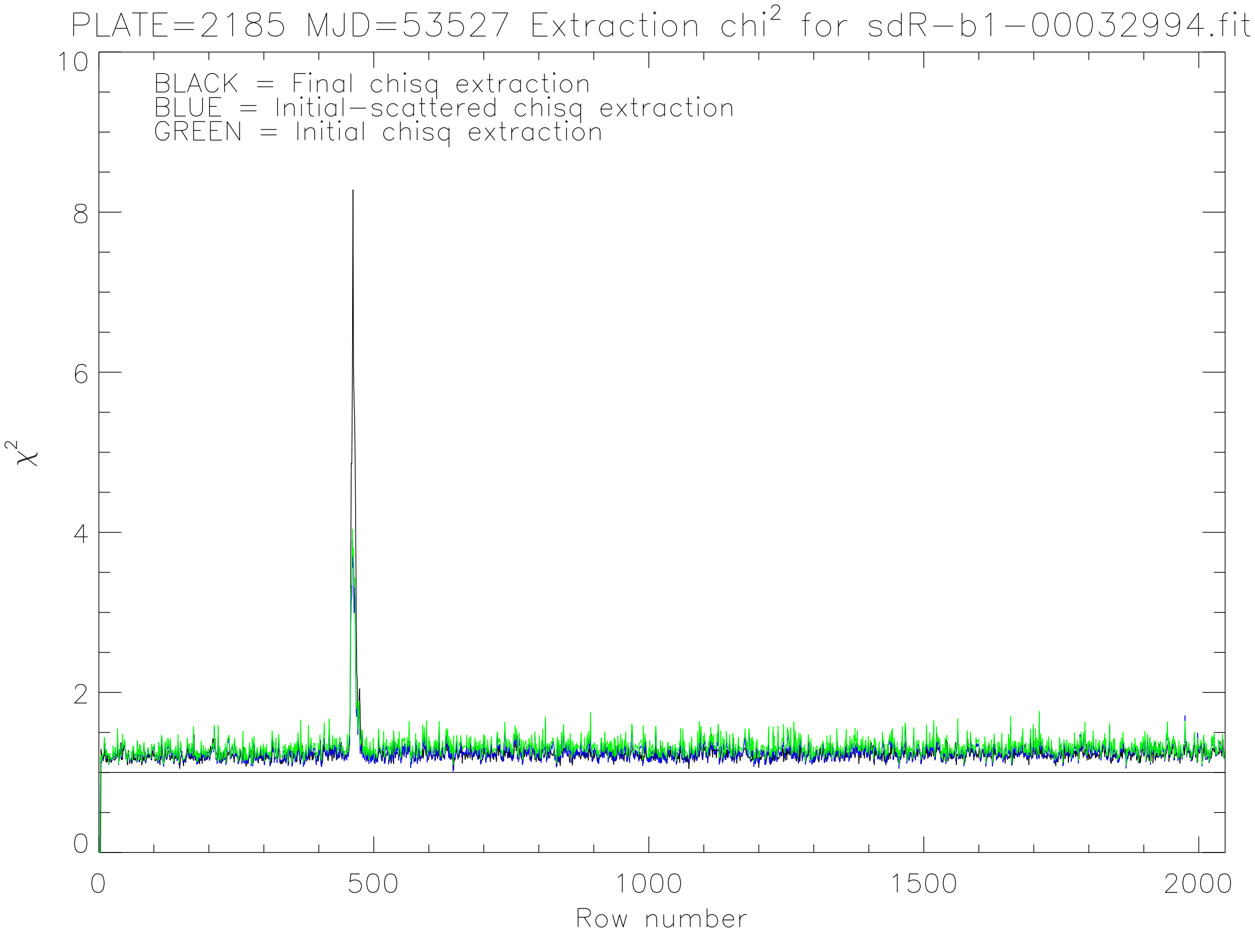
PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-b1-00032994.f

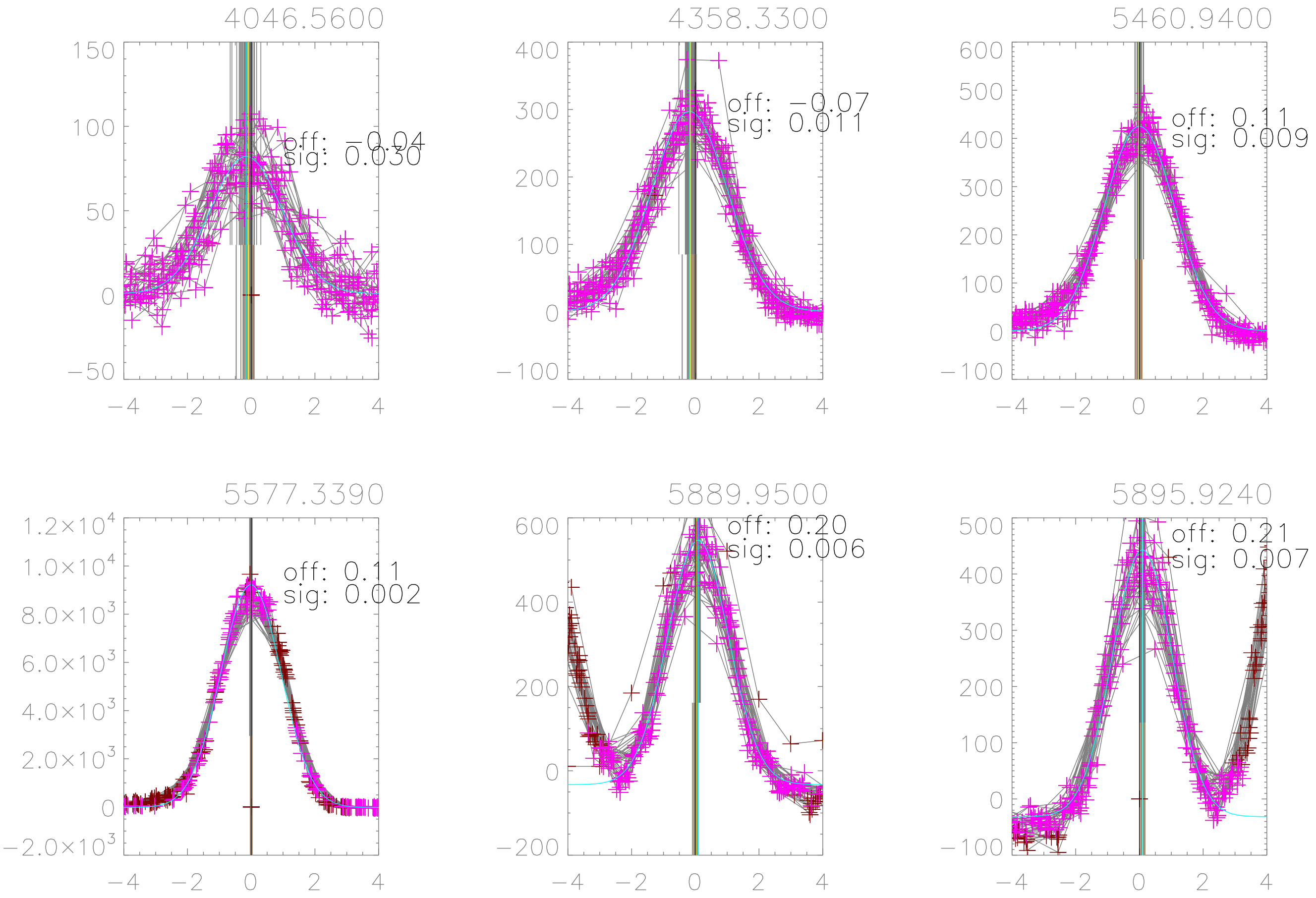
Mon Feb 11 01:08:59 2008

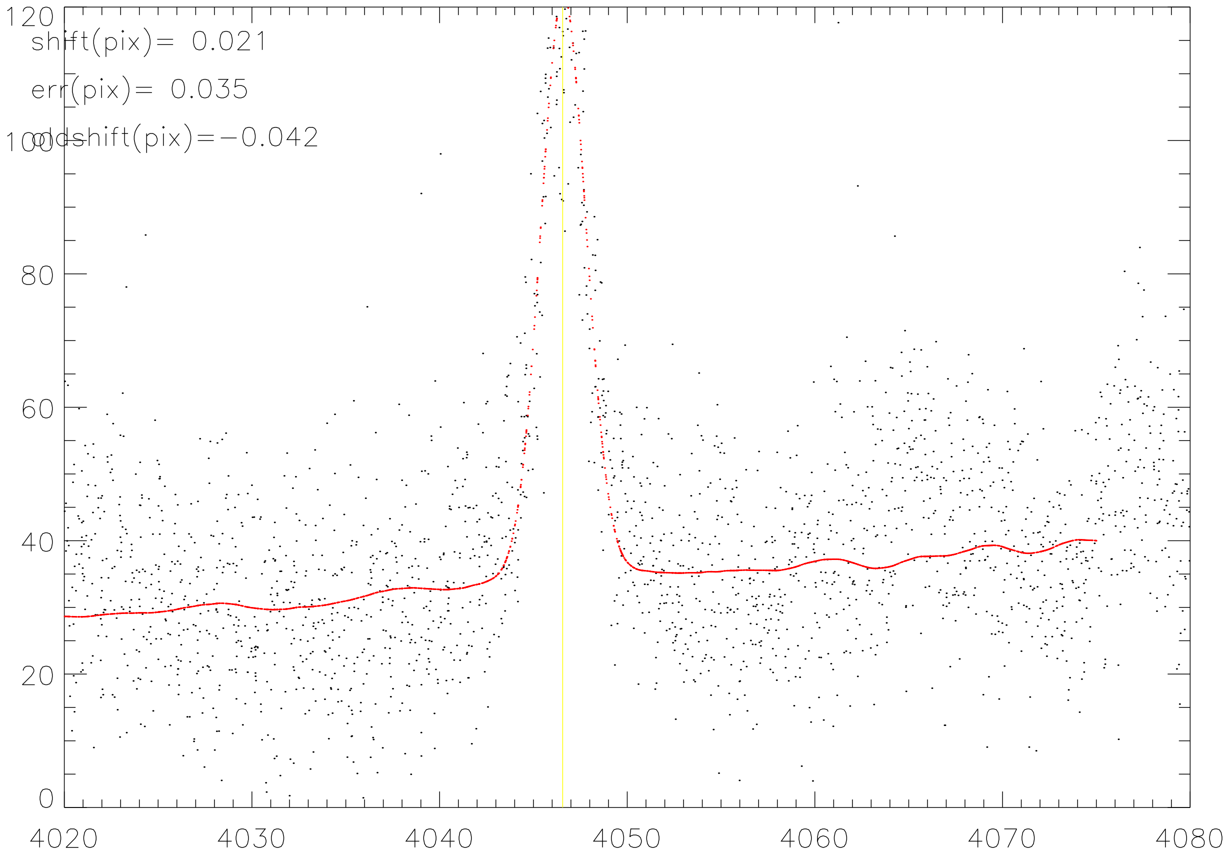


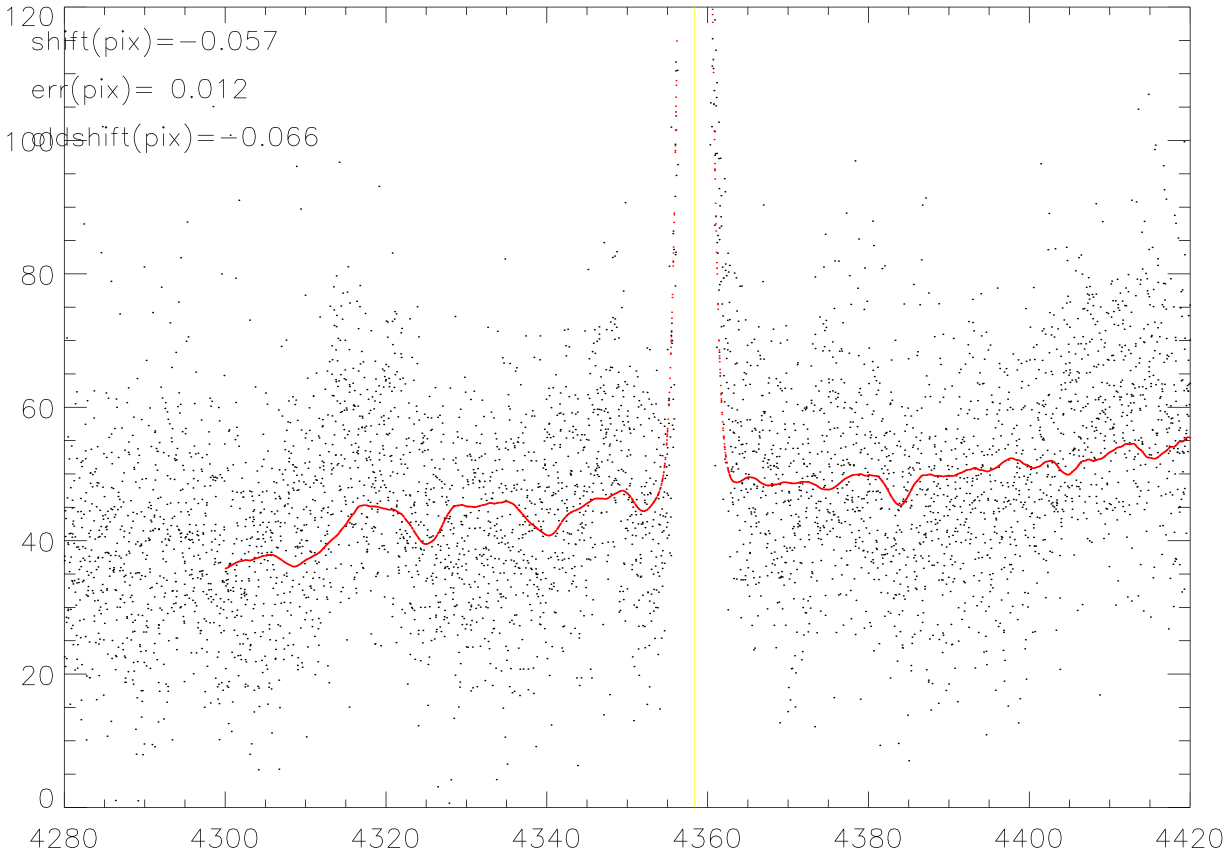
PLATE=2185 MJD=53527 Scattered Light on sdR-b1-00032994.fit

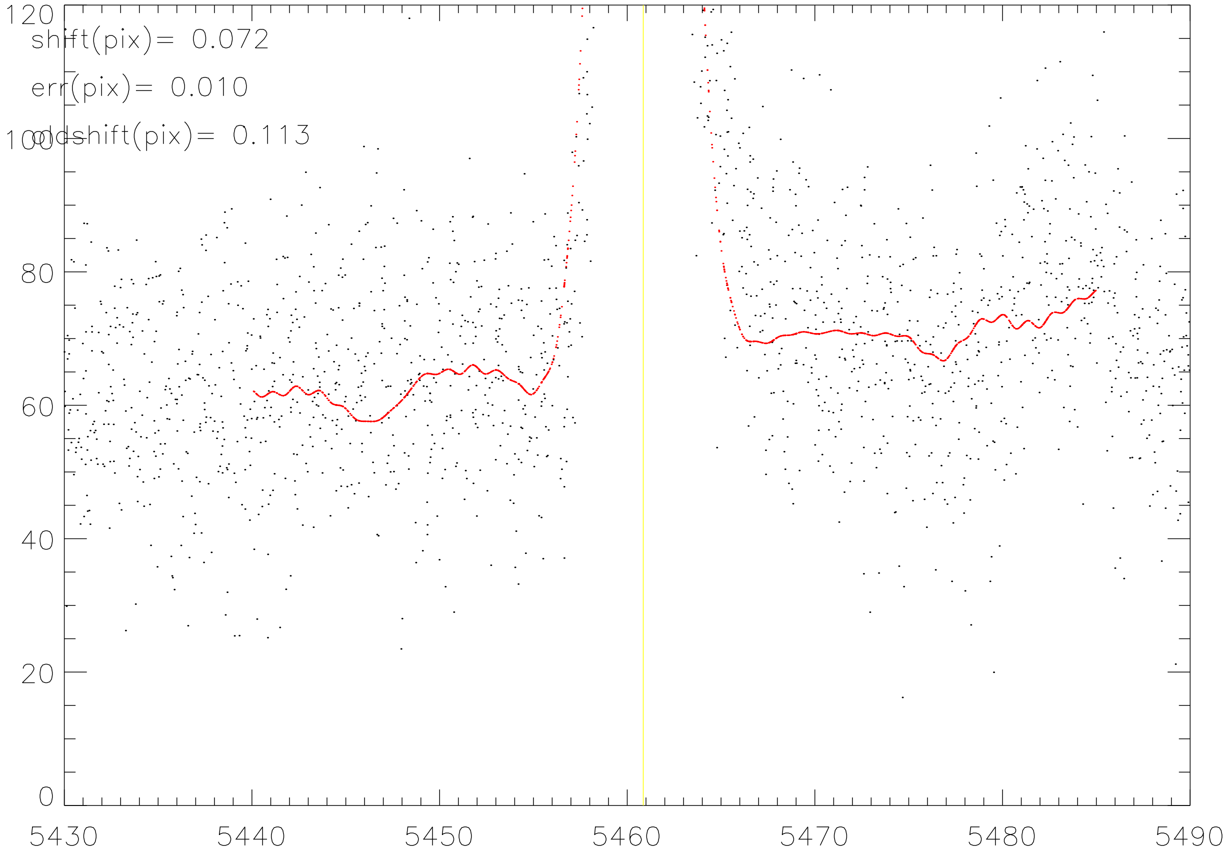

PLATE=2185 MJD=53527 Scattered Light on sdR-b1-00032994.fit
Brightness [electrons/pix]
0
2
4
6
8
10
12
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 4.907
Max value = 7.411
Mon Feb 11 01:11:54 2008


PLATE=2185 MJD=53527 Extraction chi^2 for sdR-b1-00032994.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
0
500
1000
1500
2000
Row number

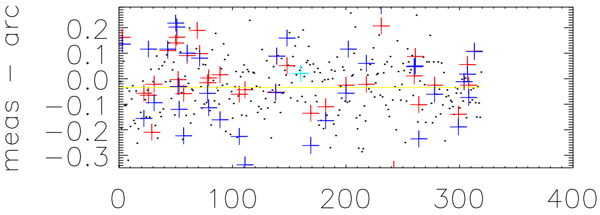

4046.5600
off: −0.04
sig: 0.030
4358.3300
off: −0.07
sig: 0.011
5460.9400
off: 0.11
sig: 0.009
5577.3390
off: 0.11
sig: 0.002
5889.9500
off: 0.20
sig: 0.006
5895.9240
off: 0.21
sig: 0.007
150
100
50
0
−50
400
300
200
100
0
−100
600
500
400
300
200
100
0
−100
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
-2.0×10^3
600
400
200
0
−200
500
400
300
200
100
0
−100
−4
−2
0
2
4

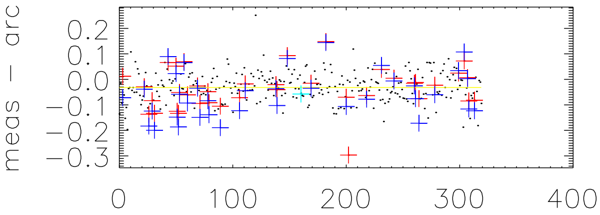

shift(pix)= 0.021
err(pix)= 0.035
oldshift(pix)=−0.042
0
20
40
60
80
100
120
4020
4030
4040
4050
4060
4070
4080

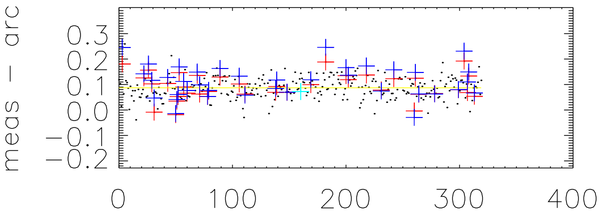

shift(pix)=−0.057
err(pix)= 0.012
oldshift(pix)=−0.066
0
20
40
60
80
100
120
4280
4300
4320
4340
4360
4380
4400
4420

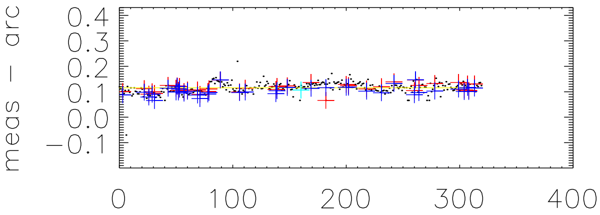


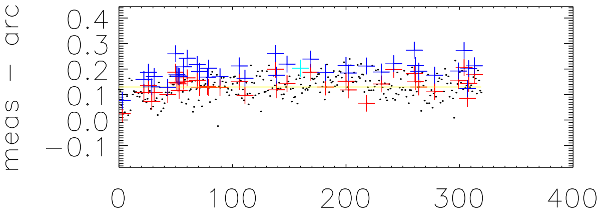
shift(pix)= 0.072
err(pix)= 0.010
oldshift(pix)= 0.113
0
20
40
60
80
100
120
5430
5440
5450
5460
5470
5480
5490

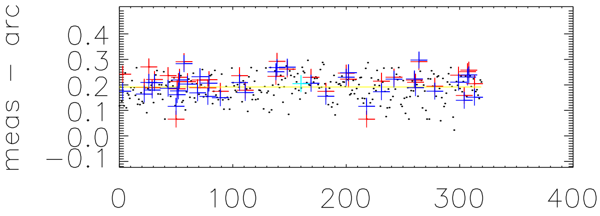

4046.5600

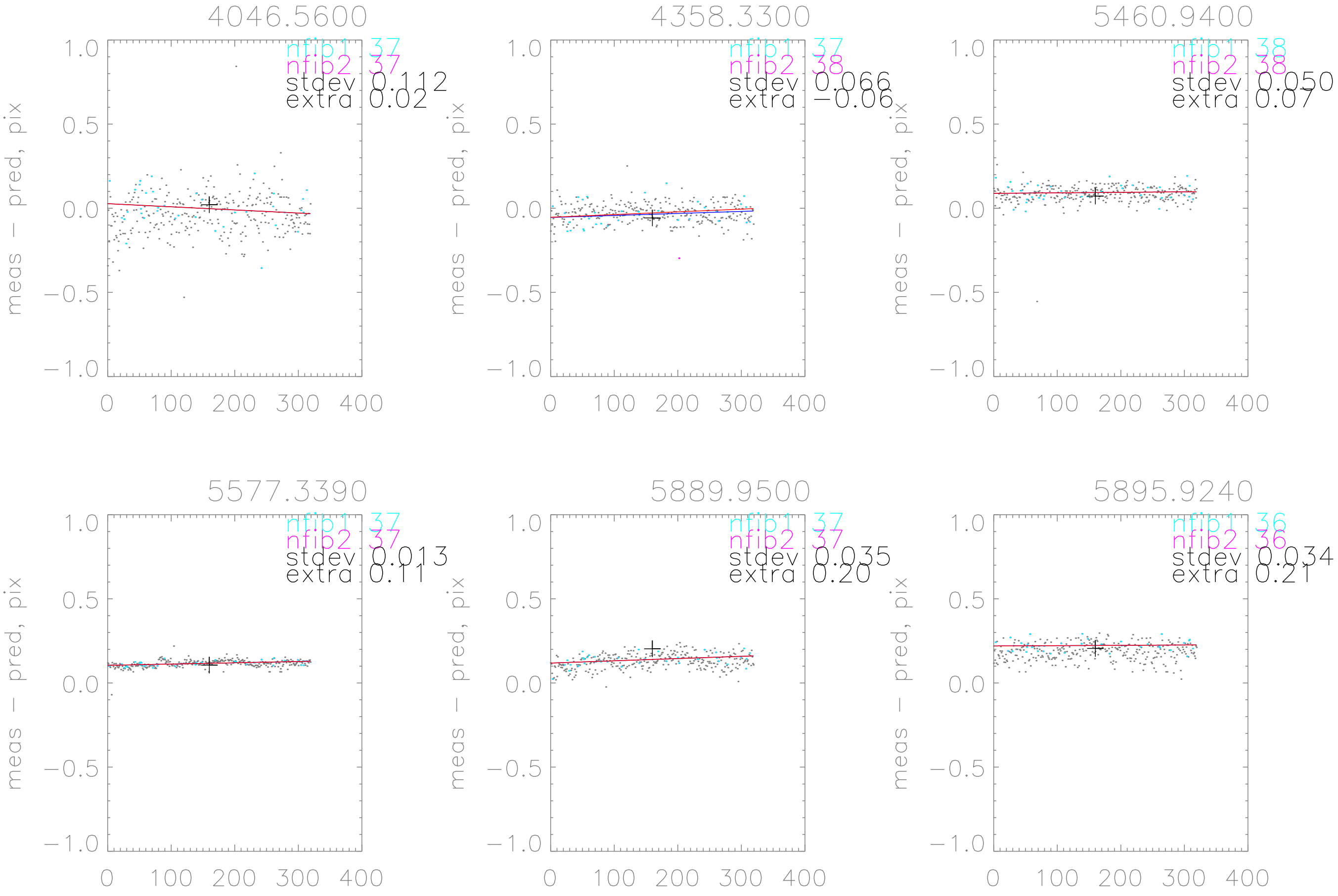

4358.3300

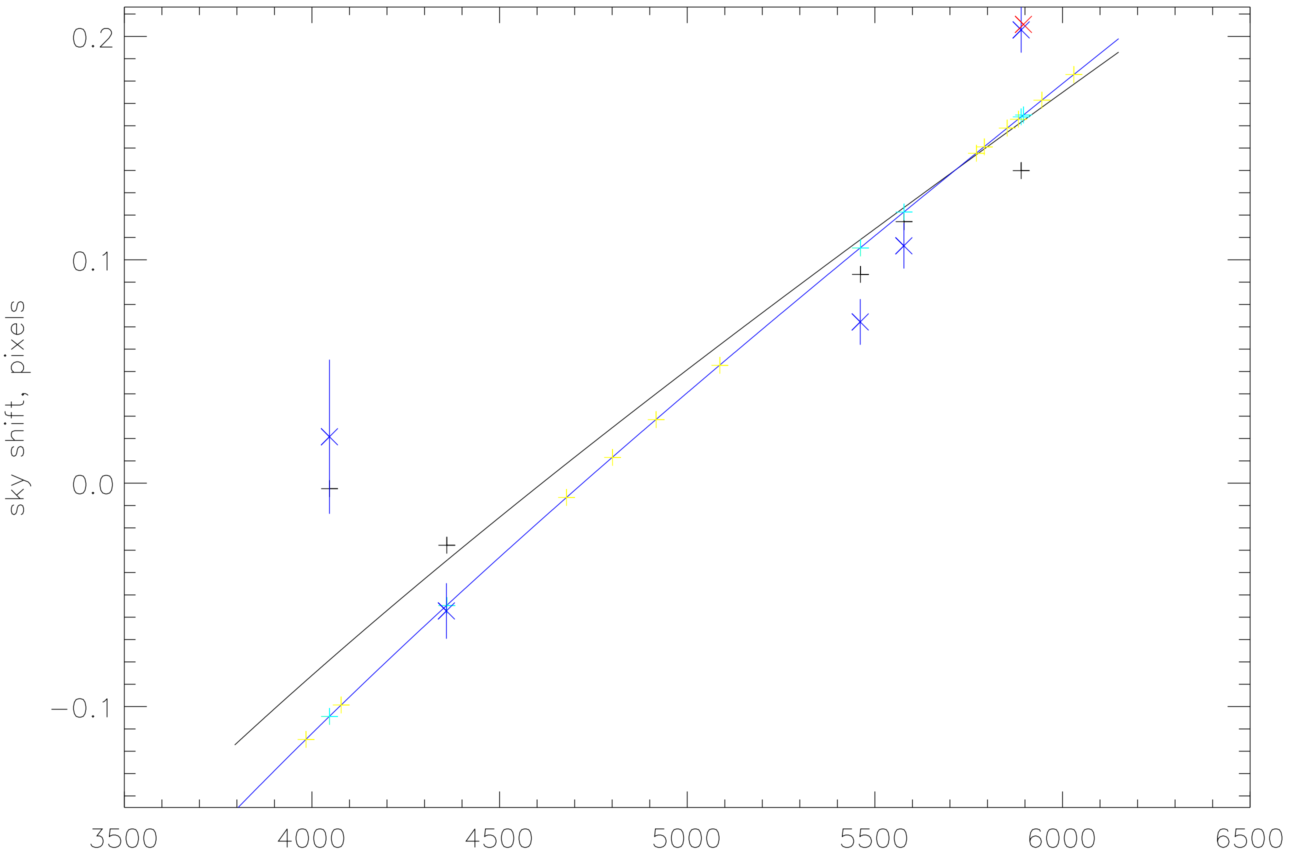

5460.9400

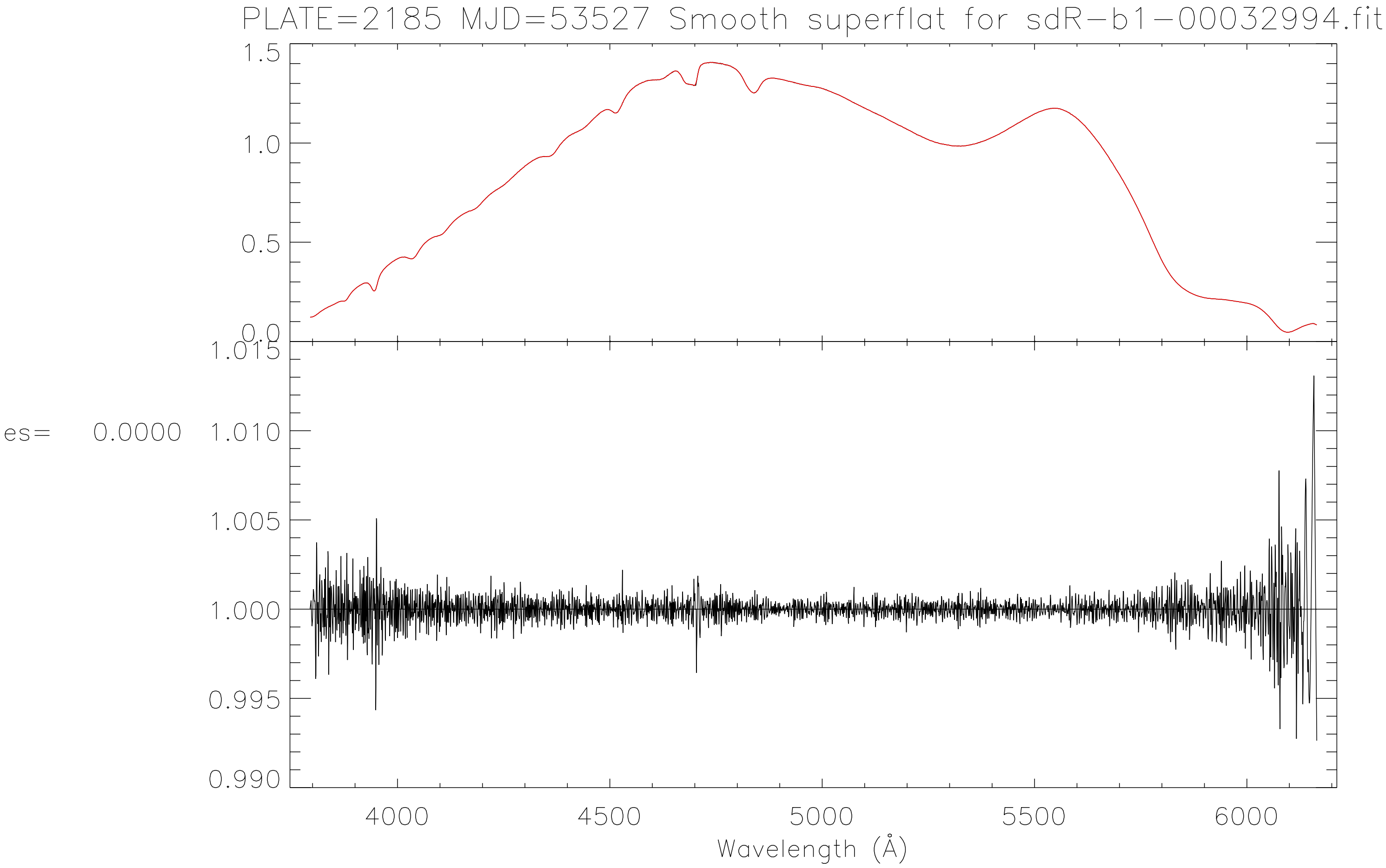

5577.3390

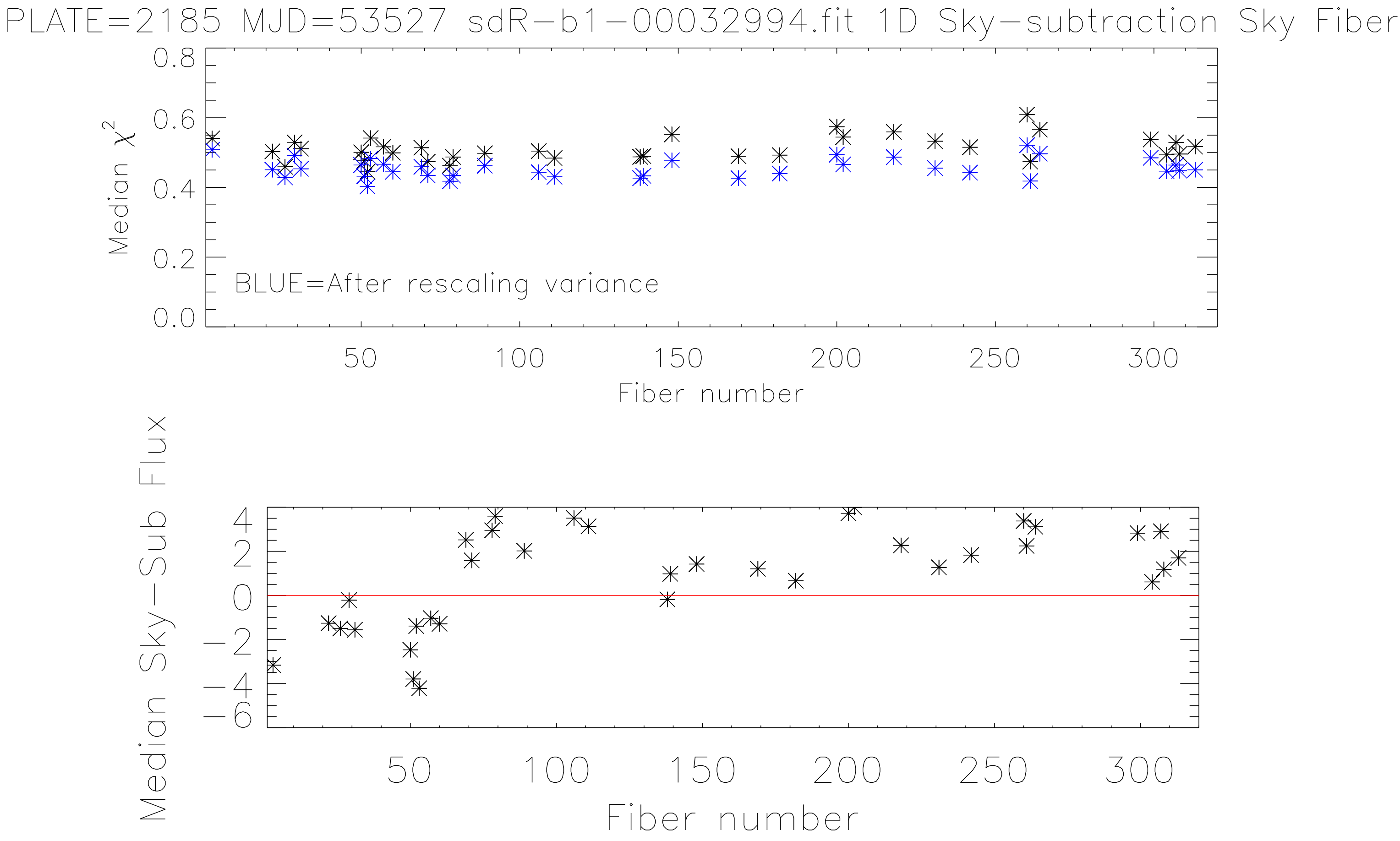

5889.9500


5895.9240

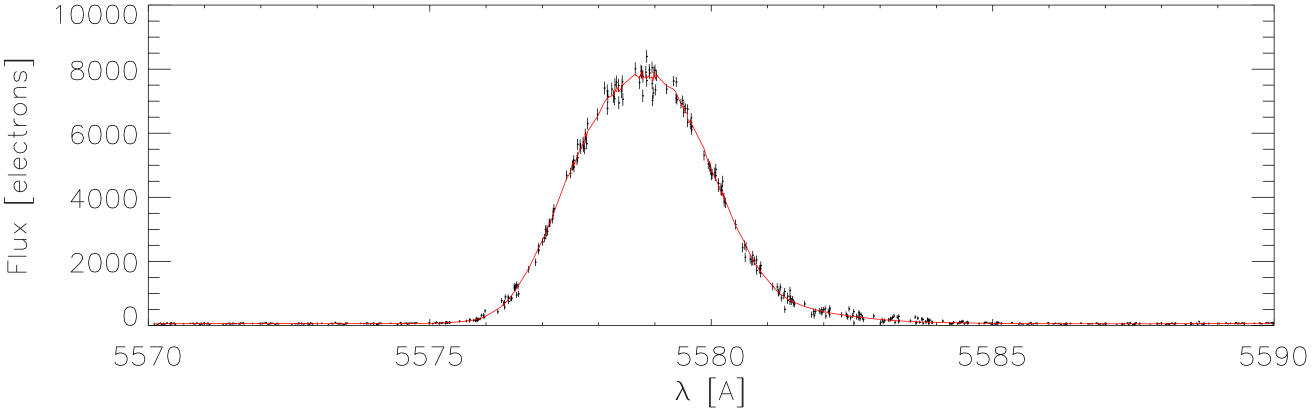

4046.5600
nfib1 37
nfib2 37
stdev 0.112
extra 0.02
4358.3300
nfib1 37
nfib2 38
stdev 0.066
extra −0.06
5460.9400
nfib1 38
nfib2 38
stdev 0.050
extra 0.07
5577.3390
nfib1 37
nfib2 37
stdev 0.013
extra 0.11
5889.9500
nfib1 37
nfib2 37
stdev 0.035
extra 0.20
5895.9240
nfib1 36
nfib2 36
stdev 0.034
extra 0.21
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

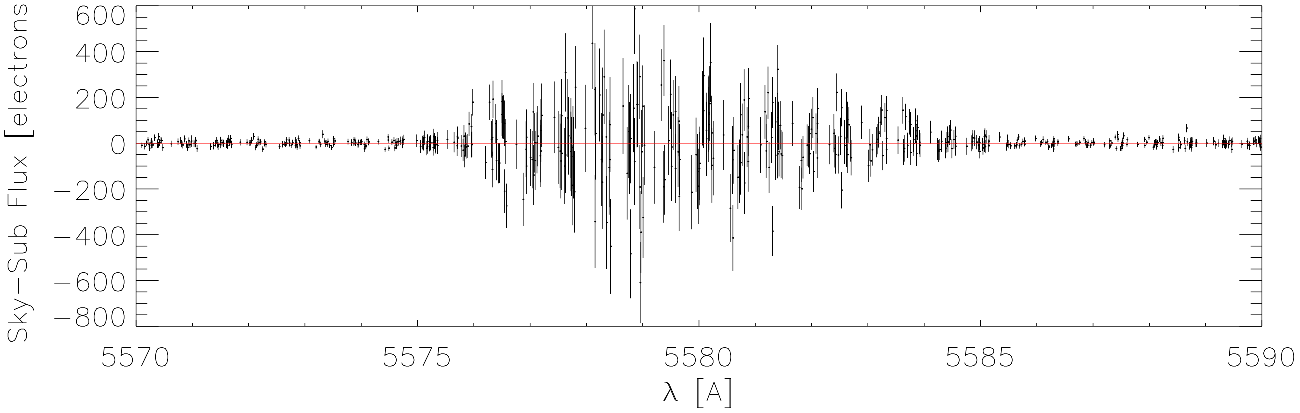

PLATE=2185 MJD=53527 Smooth superflat for sdR-b1-00032994.fit
1.5
1.0
0.5
0.0
1.015
1.010
1.005
1.000
0.995
0.990
es= 0.0000
4000
4500
5000
5500
6000
Wavelength (Å)


PLATE=2185 MJD=53527 sdR-b1-00032994.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
4
2
0
-2
-4
-6
50
100
150
200
250
300
Fiber number

PLATE=2185 MJD=53527 sdR-b1-00032994.fit 1D Sky-subtraction Sky Fibers

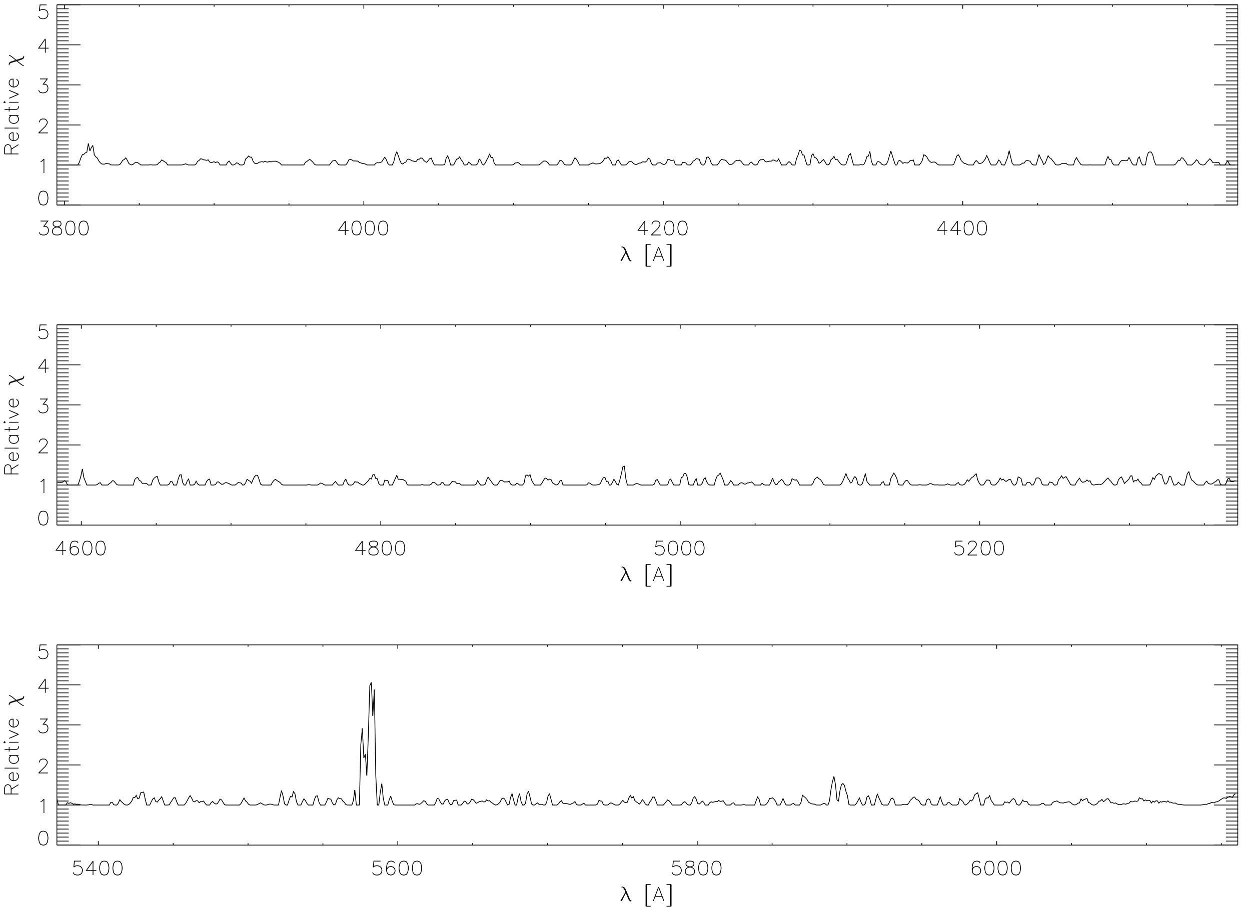


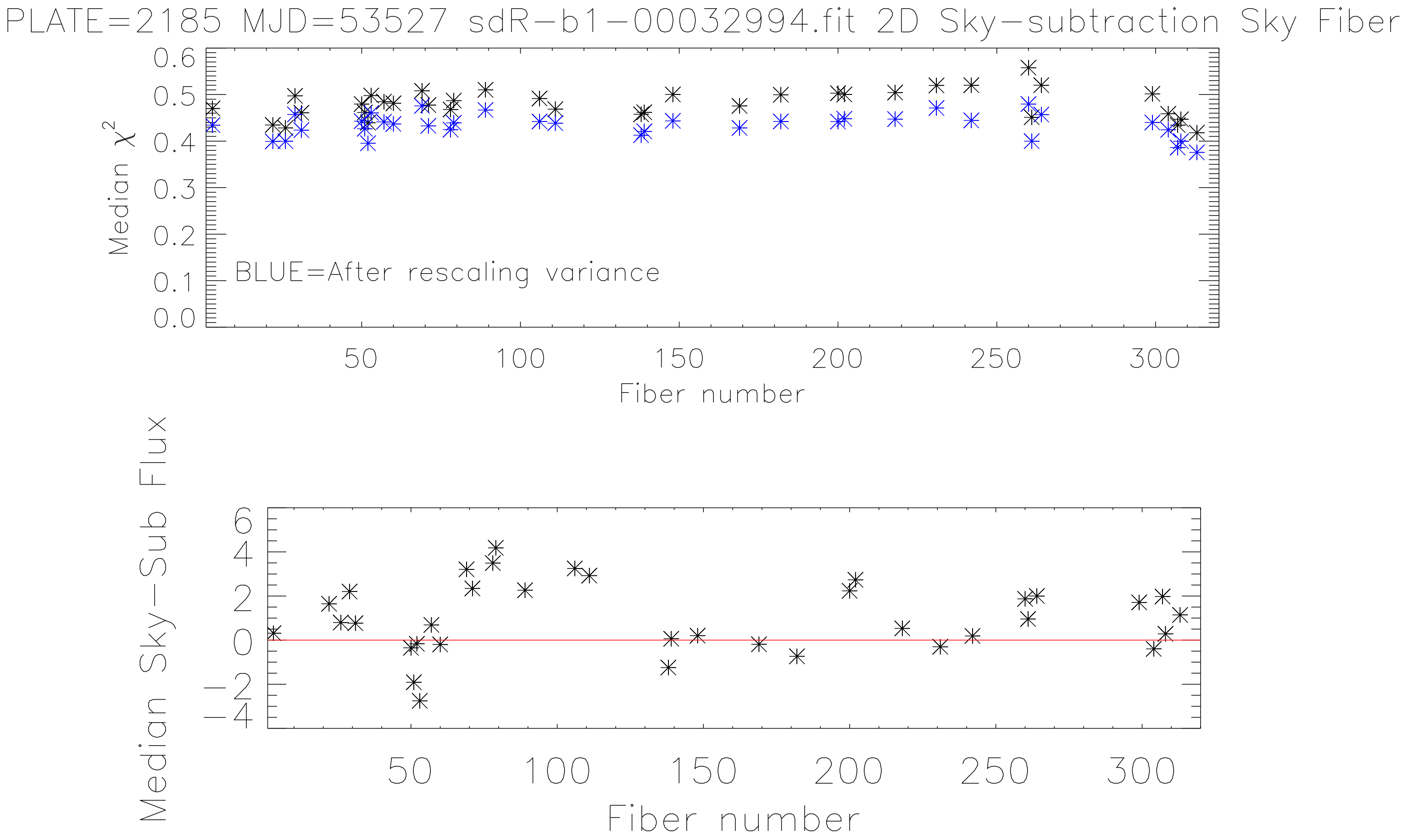
PLATE=2185 MJD=53527 sdR-b1-00032994.fit 1D Sky-subtraction Sky-subtracted Sky F



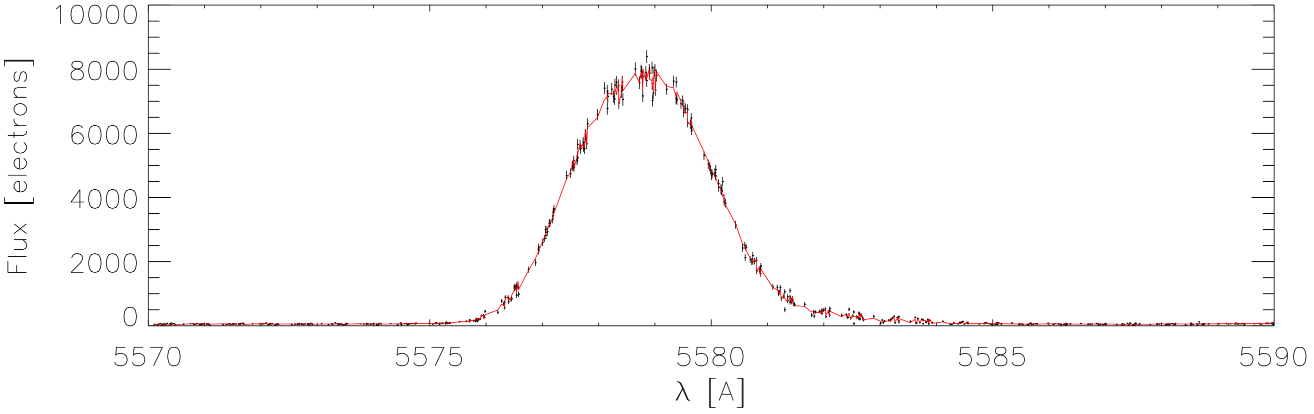
Number of sky fibers = 36

PLATE=2185 MJD=53527 sdR-b1-00032994.fit 1D Sky-subtraction Rescaled Errors

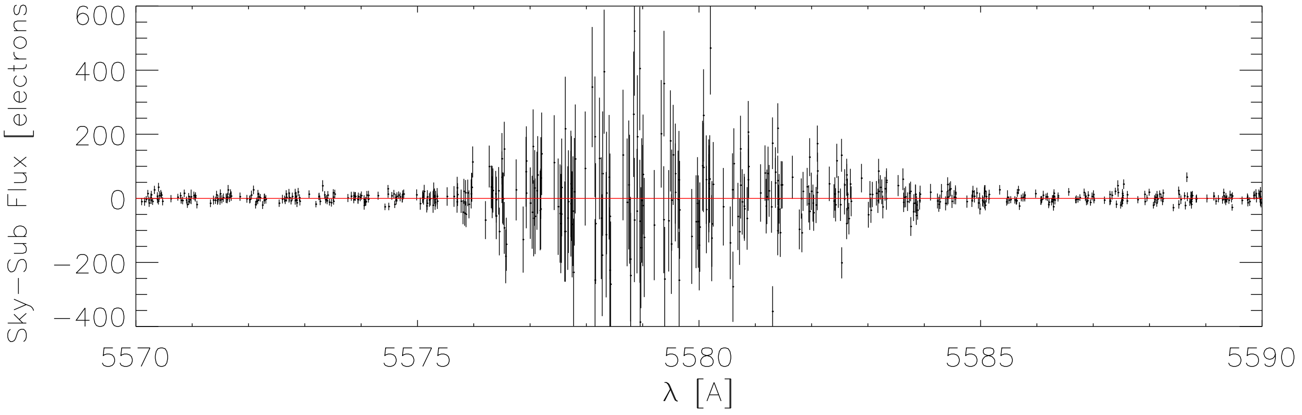



PLATE=2185 MJD=53527 sdR-b1-00032994.fit 2D Sky-subtraction Sky Fiber

PLATE=2185 MJD=53527 sdR-b1-00032994.fit 2D Sky-subtraction Sky Fibers

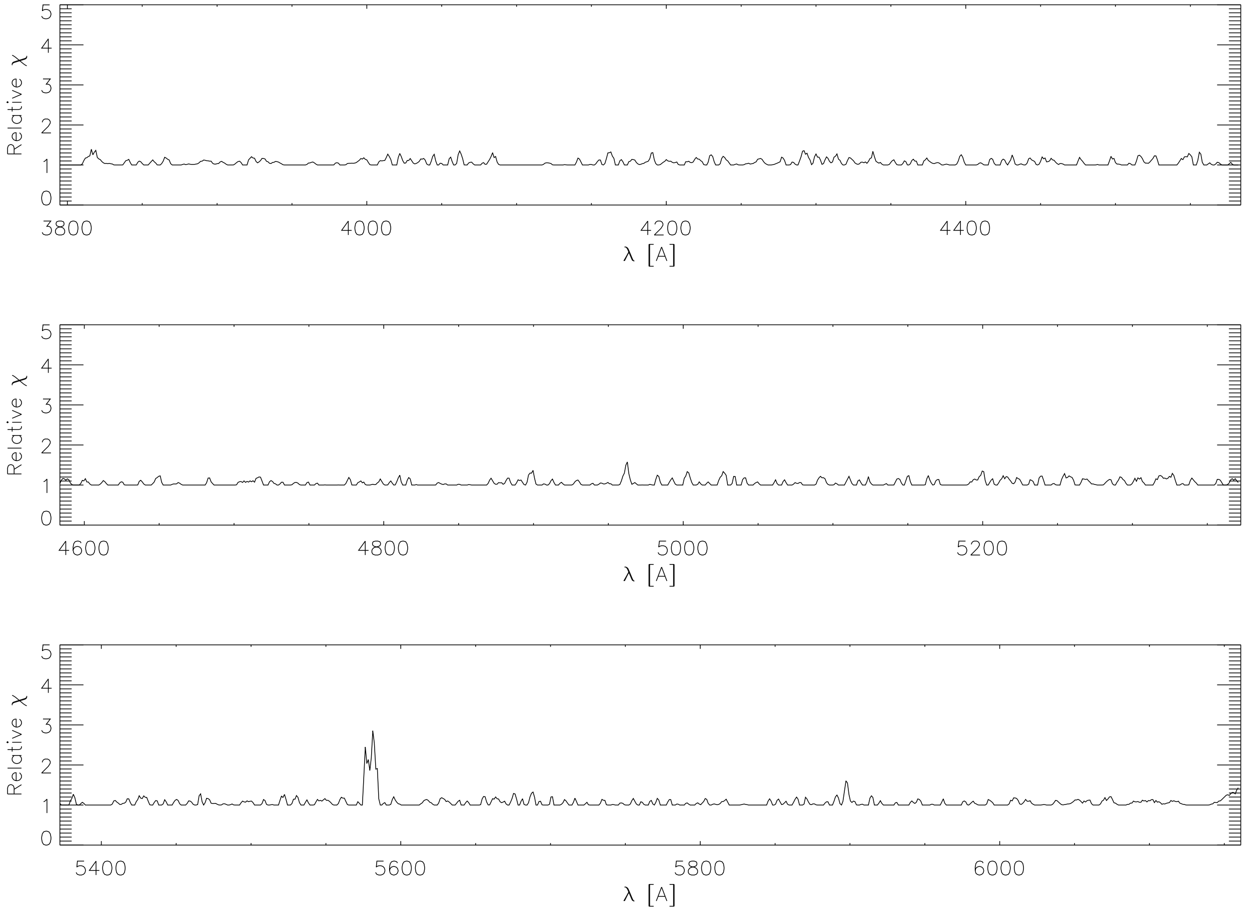


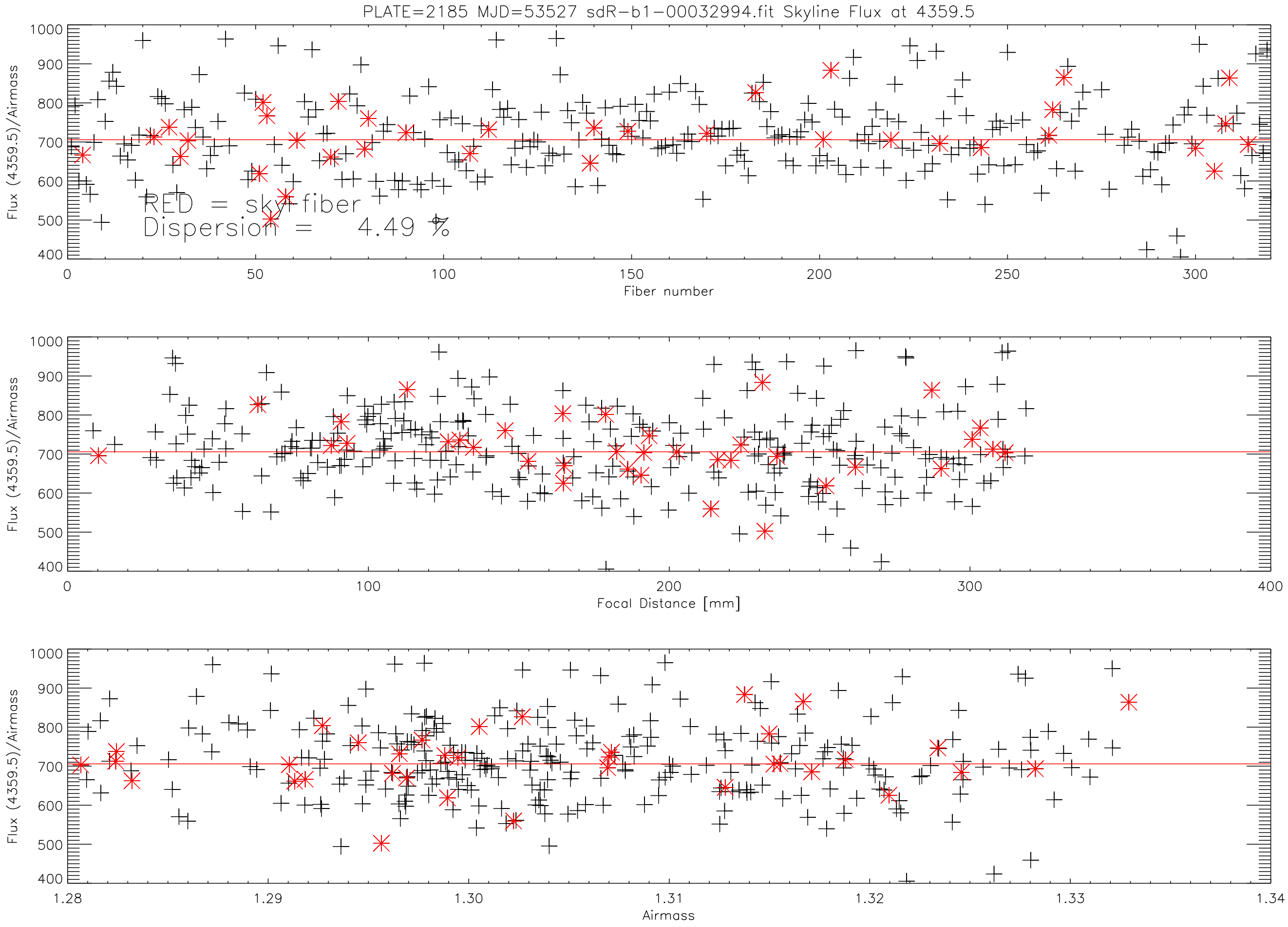
PLATE=2185 MJD=53527 sdR-b1-00032994.fit 2D Sky-subtraction Sky-subtracted Sky F

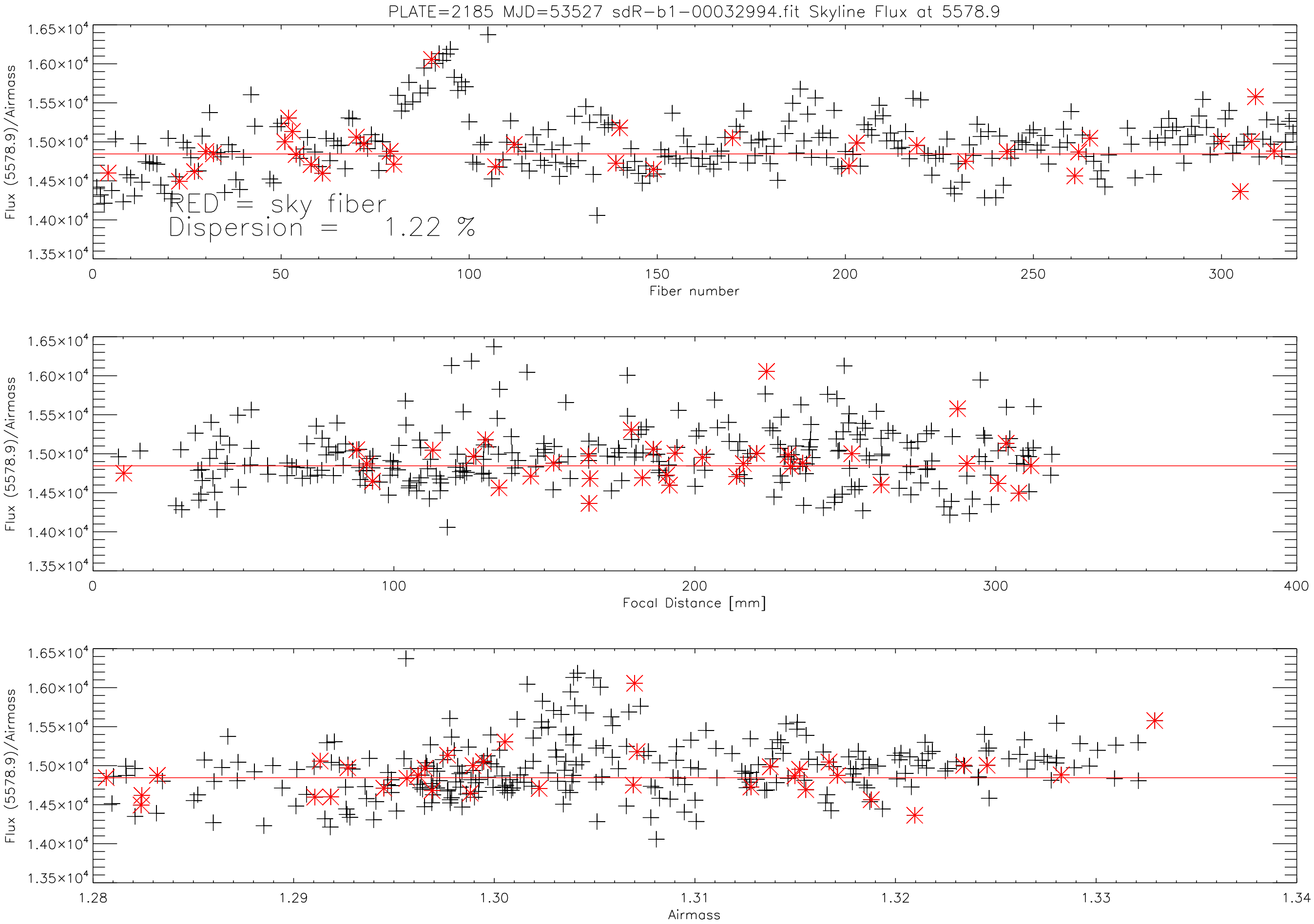


Number of sky fibers = 36

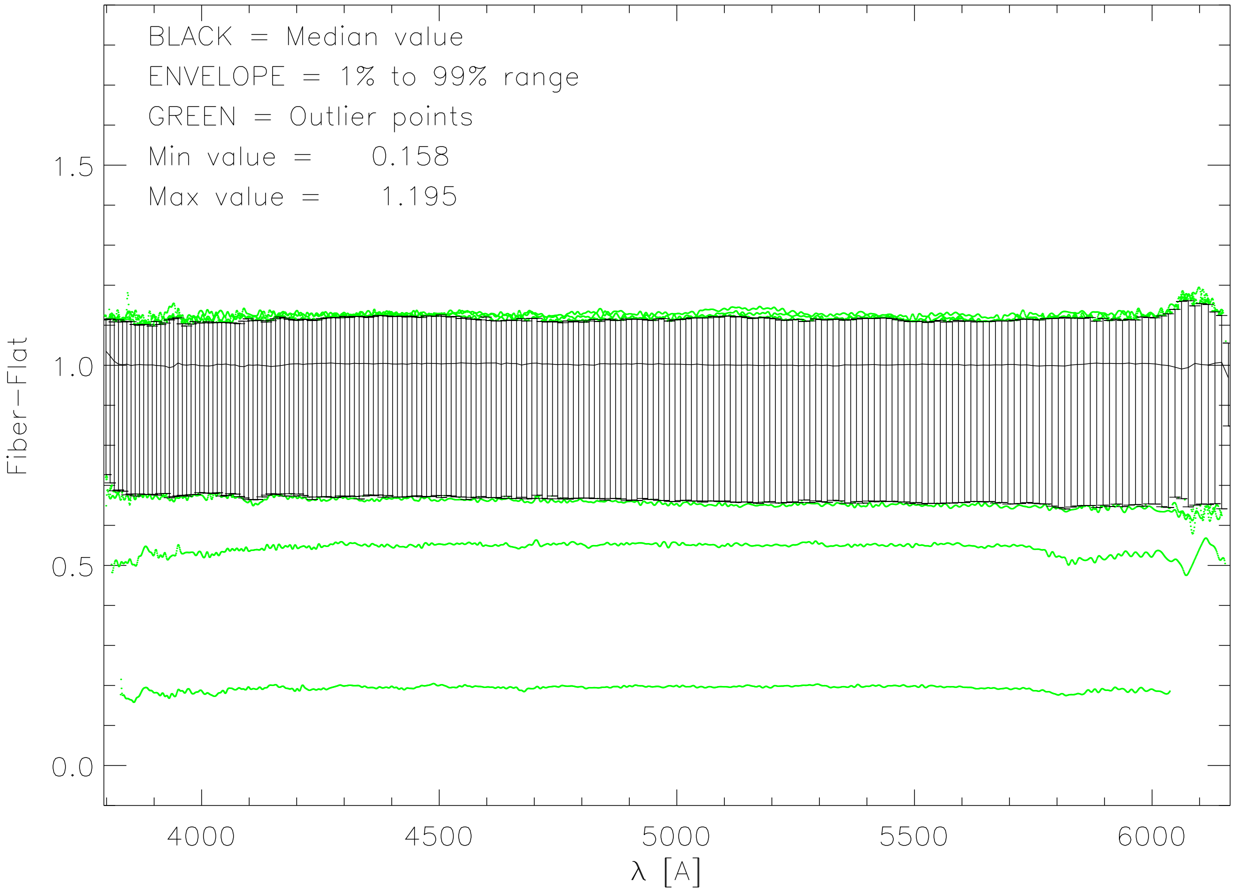
PLATE=2185 MJD=53527 sdR-b1-00032994.fit 2D Sky-subtraction Rescaled Errors




PLATE=2185 MJD=53527 sdR-b1-00032994.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
1000
900
800
700
600
500
400
0
50
100
150
200
250
300
Fiber number
RED = sky fiber
Dispersion = 4.49 %
Flux (4359.5)/Airmass
1000
900
800
700
600
500
400
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
1000
900
800
700
600
500
400
1.28
1.29
1.30
1.31
1.32
1.33
1.34
Airmass


PLATE=2185 MJD=53527 sdR-b1-00032994.fit Skyline Flux at 5578.9
RED = sky fiber
Dispersion = 1.22 %
Flux (5578.9)/Airmass
1.35×10⁴
1.40×10⁴
1.45×10⁴
1.50×10⁴
1.55×10⁴
1.60×10⁴
1.65×10⁴
Fiber number
0
50
100
150
200
250
300
Focal Distance [mm]
0
100
200
300
400
Airmass
1.28
1.29
1.30
1.31
1.32
1.33
1.34

PLATE=2185 MJD=53527 Fiber-Flats for sdR-b1-00032992.fit



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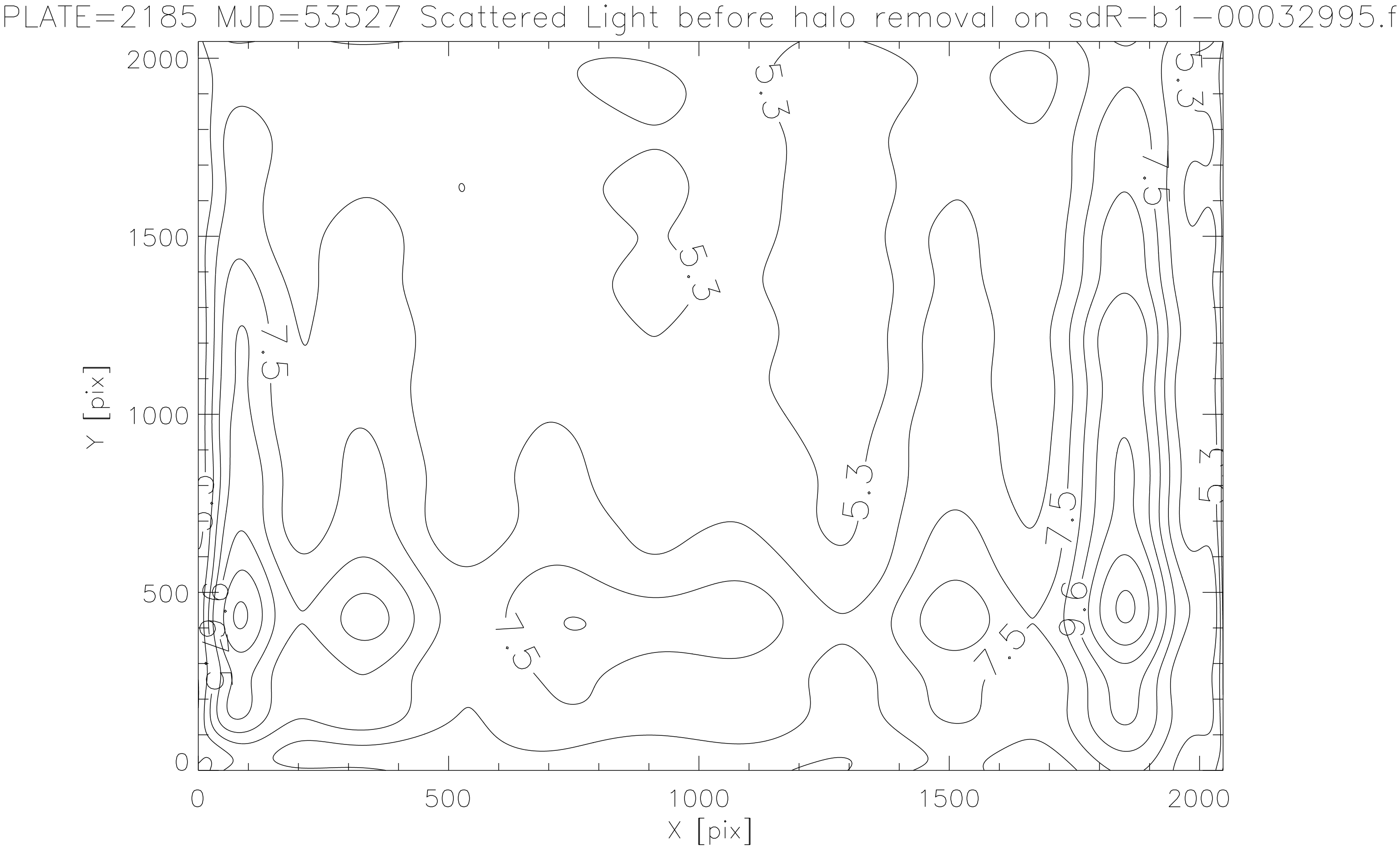
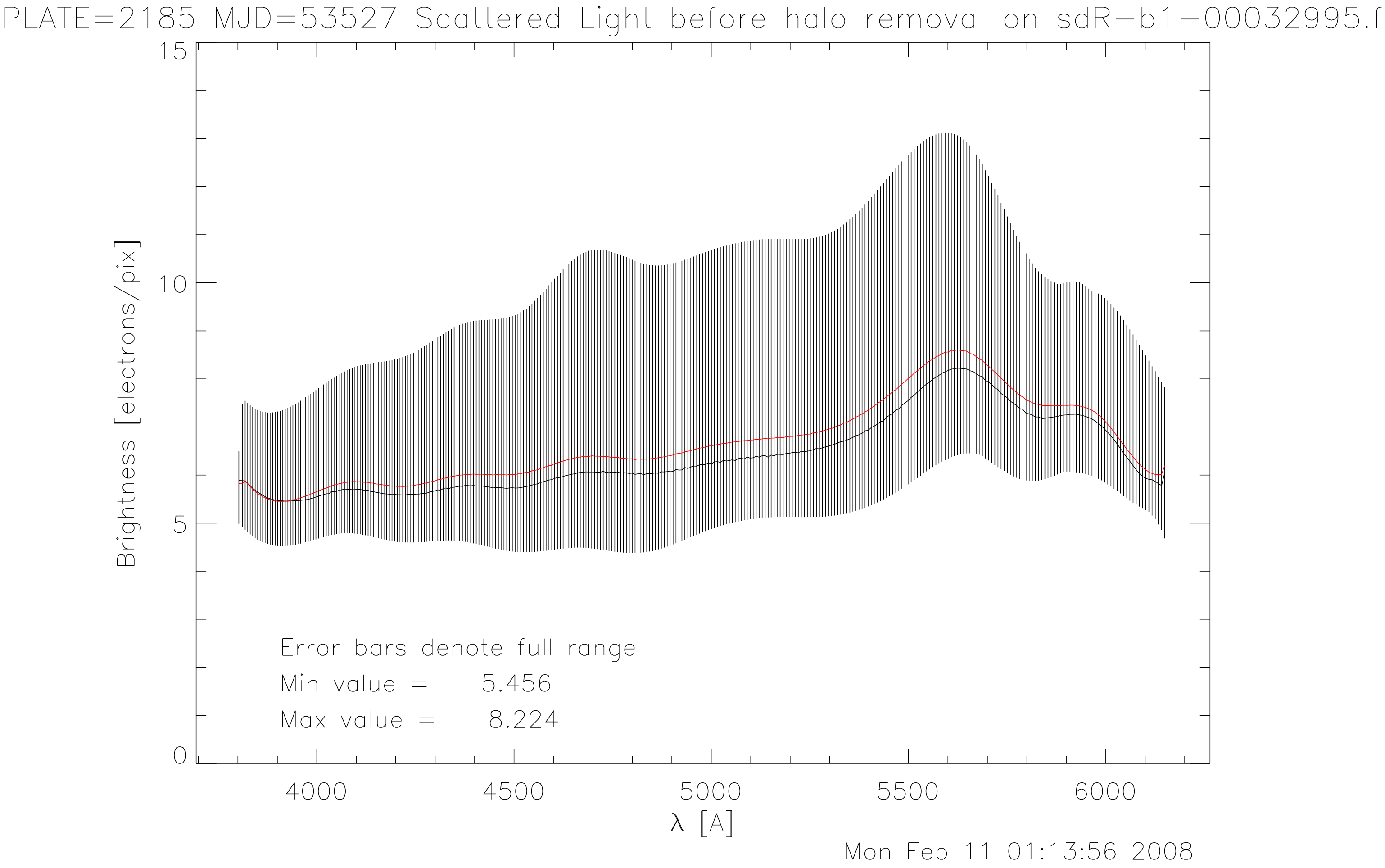
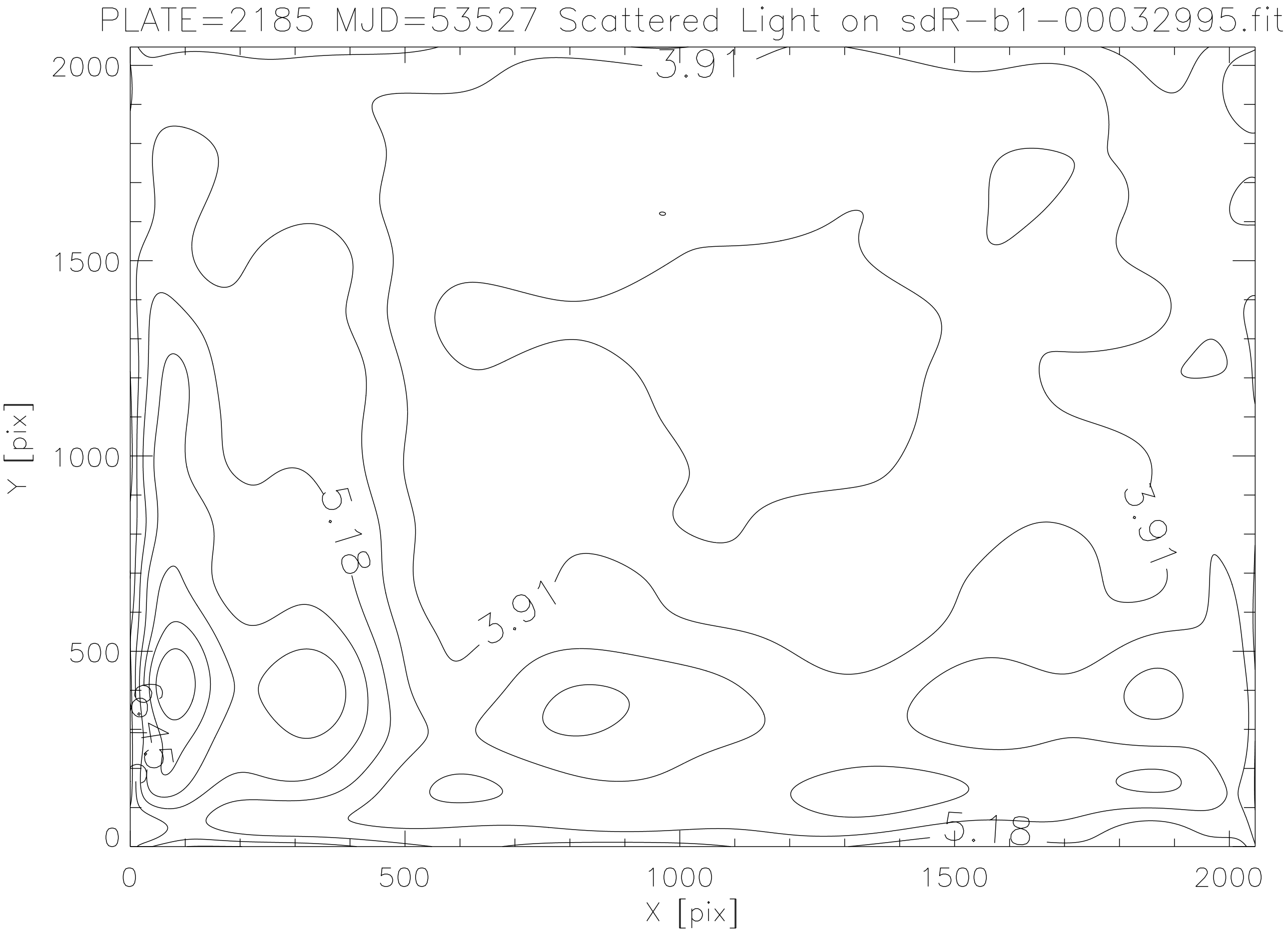
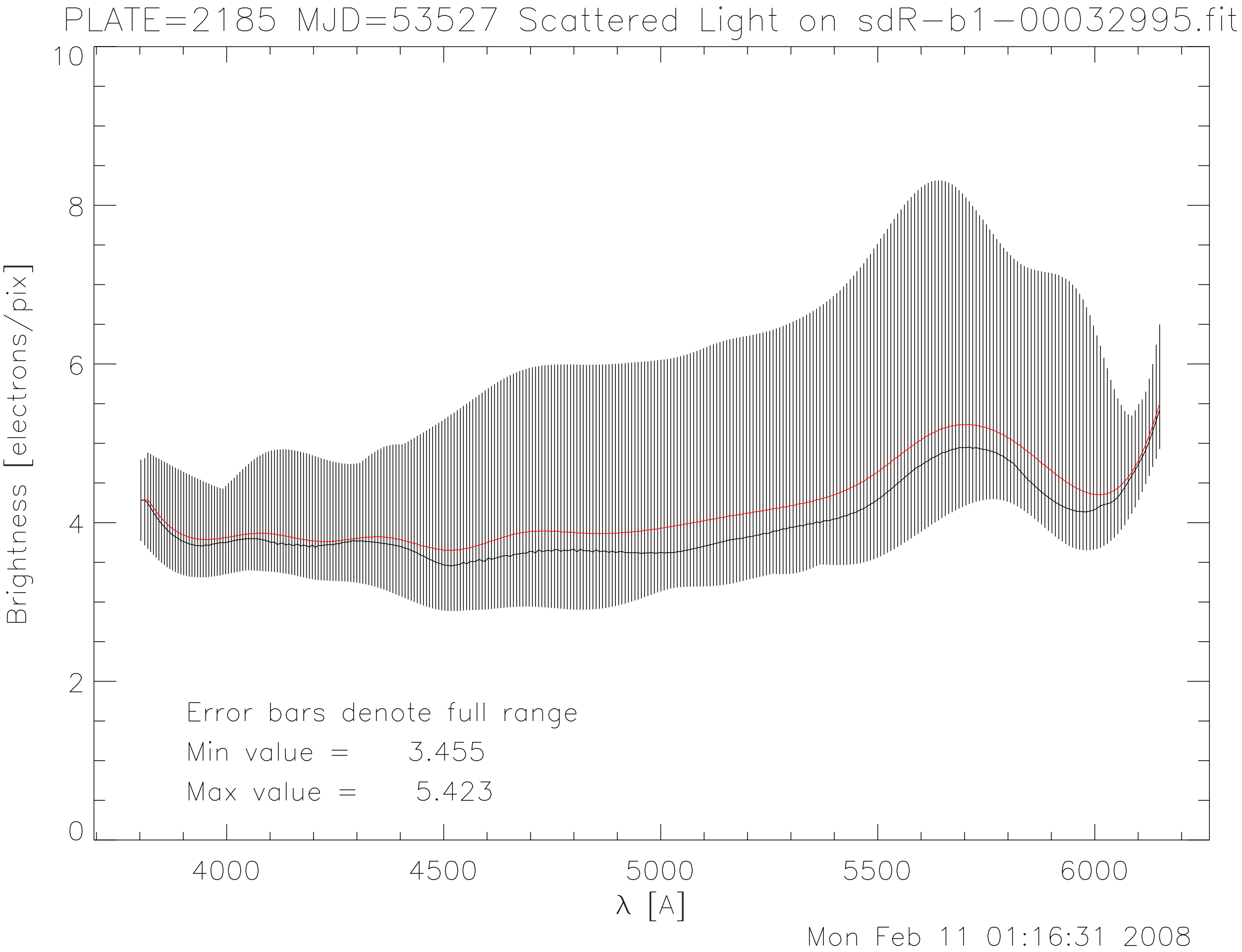
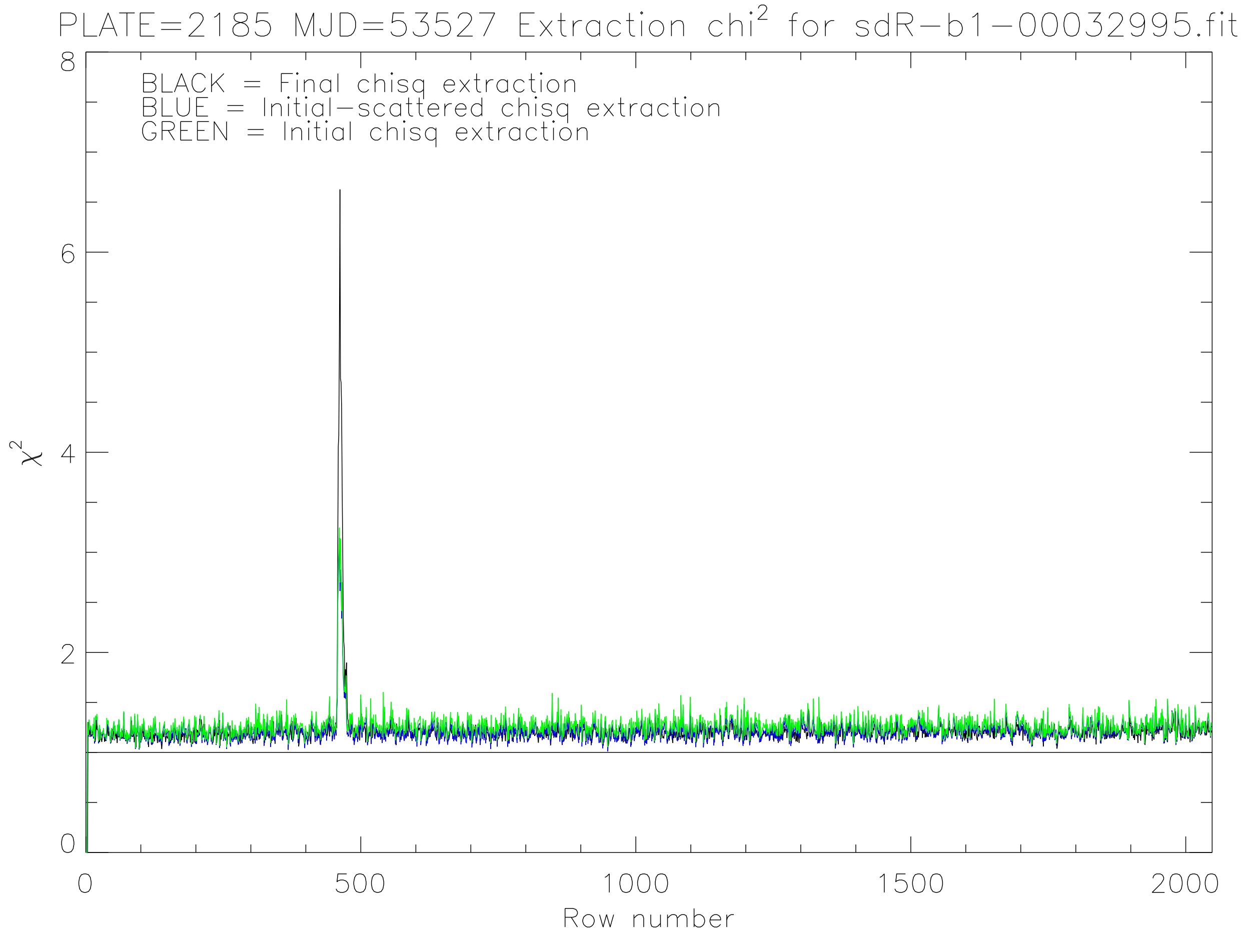

PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-b1-00032995.f
Y [pix]
X [pix]
0
500
1000
1500
2000
5.3
7.5
9.6

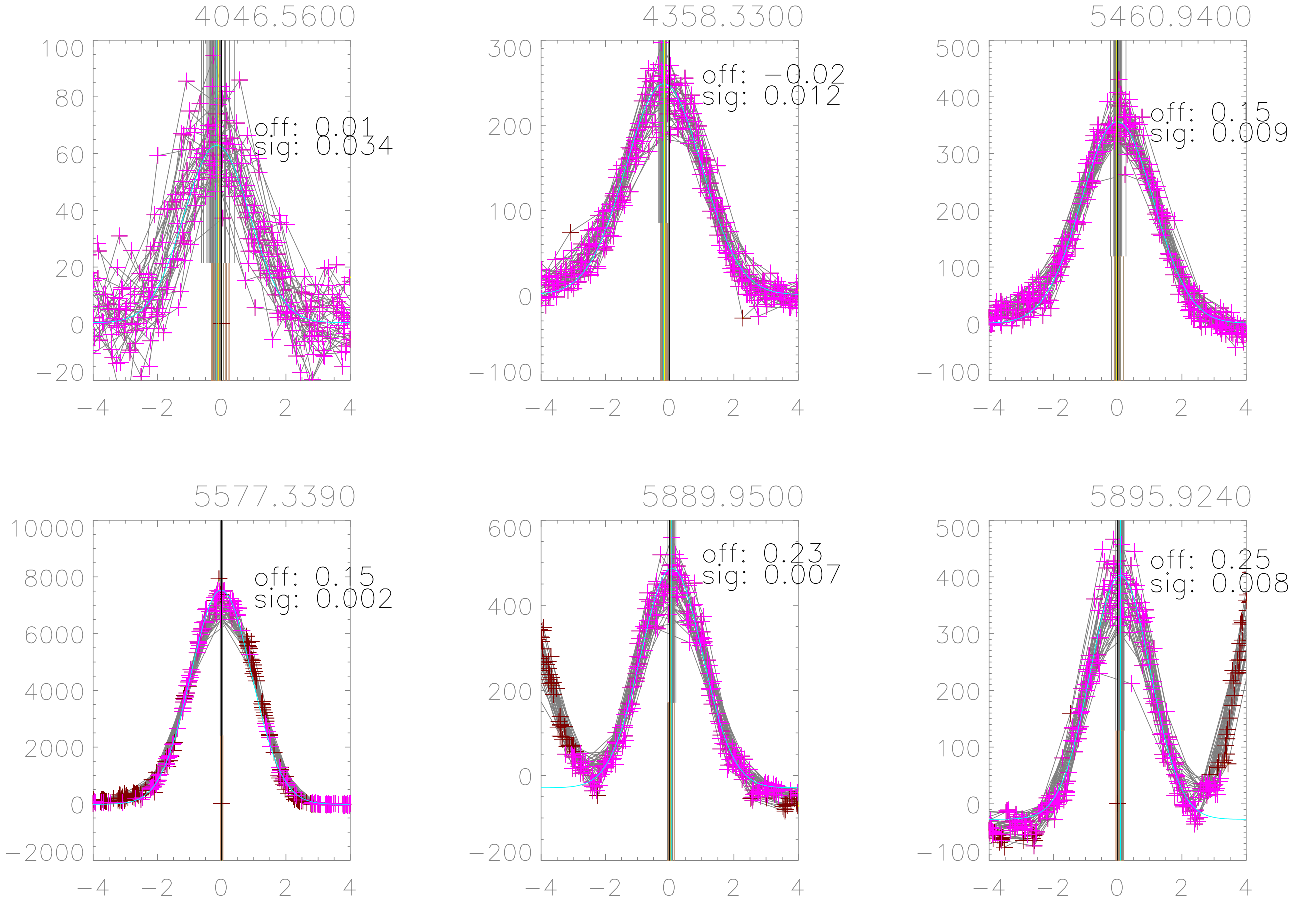

PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-b1-00032995.f
Brightness [electrons/pix]
0
5
10
15
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 5.456
Max value = 8.224
Mon Feb 11 01:13:56 2008

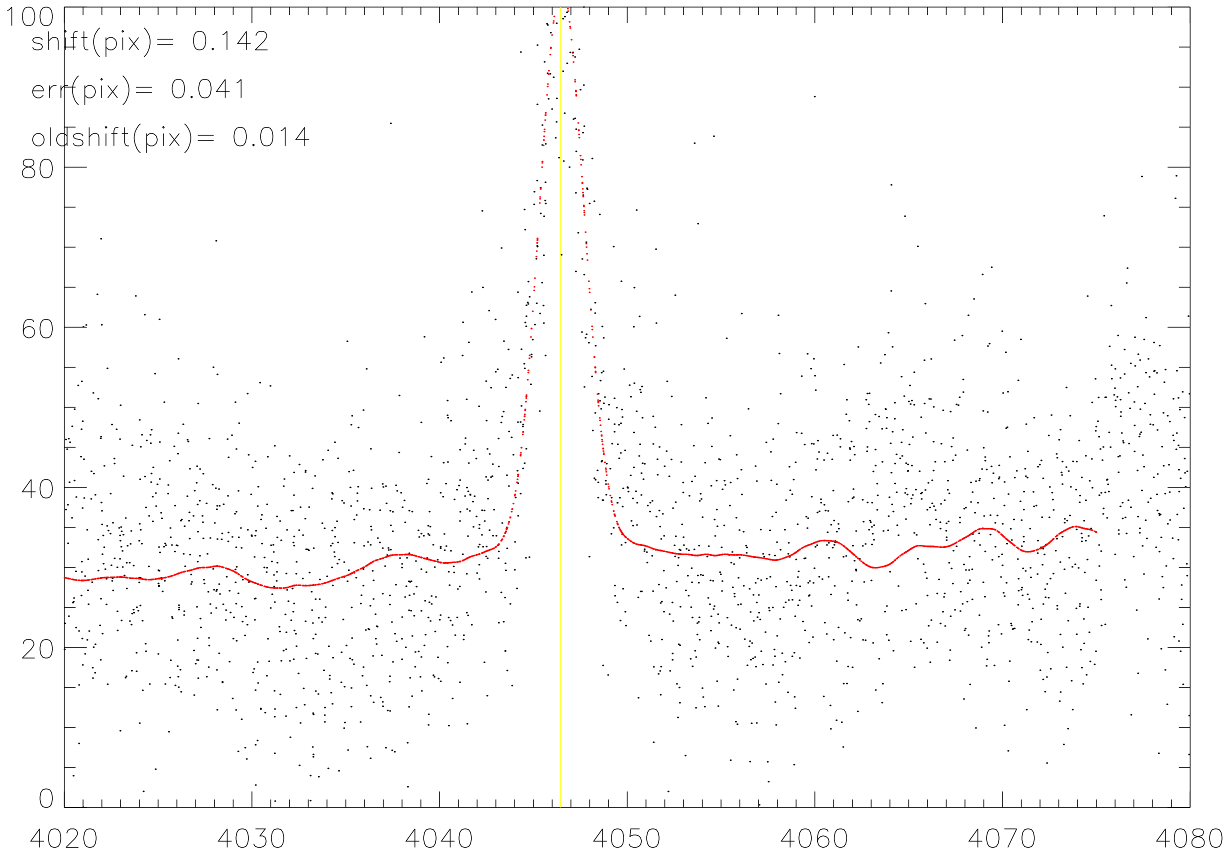


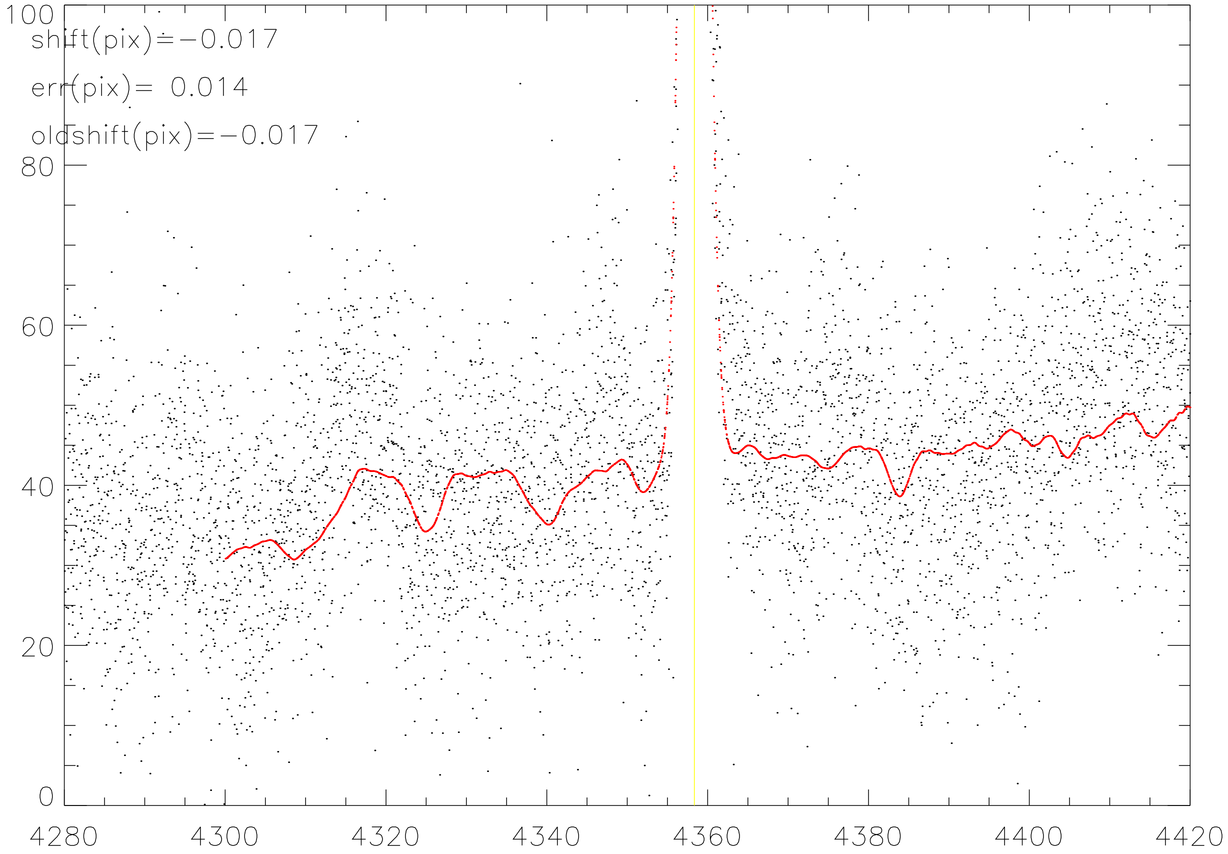
PLATE=2185 MJD=53527 Scattered Light on sdR-b1-00032995.fit
3.91
5.18
3.91
3.91
6.45
5.18
2000
1500
1000
500
0
0
500
1000
1500
2000
X [pix]
Y [pix]

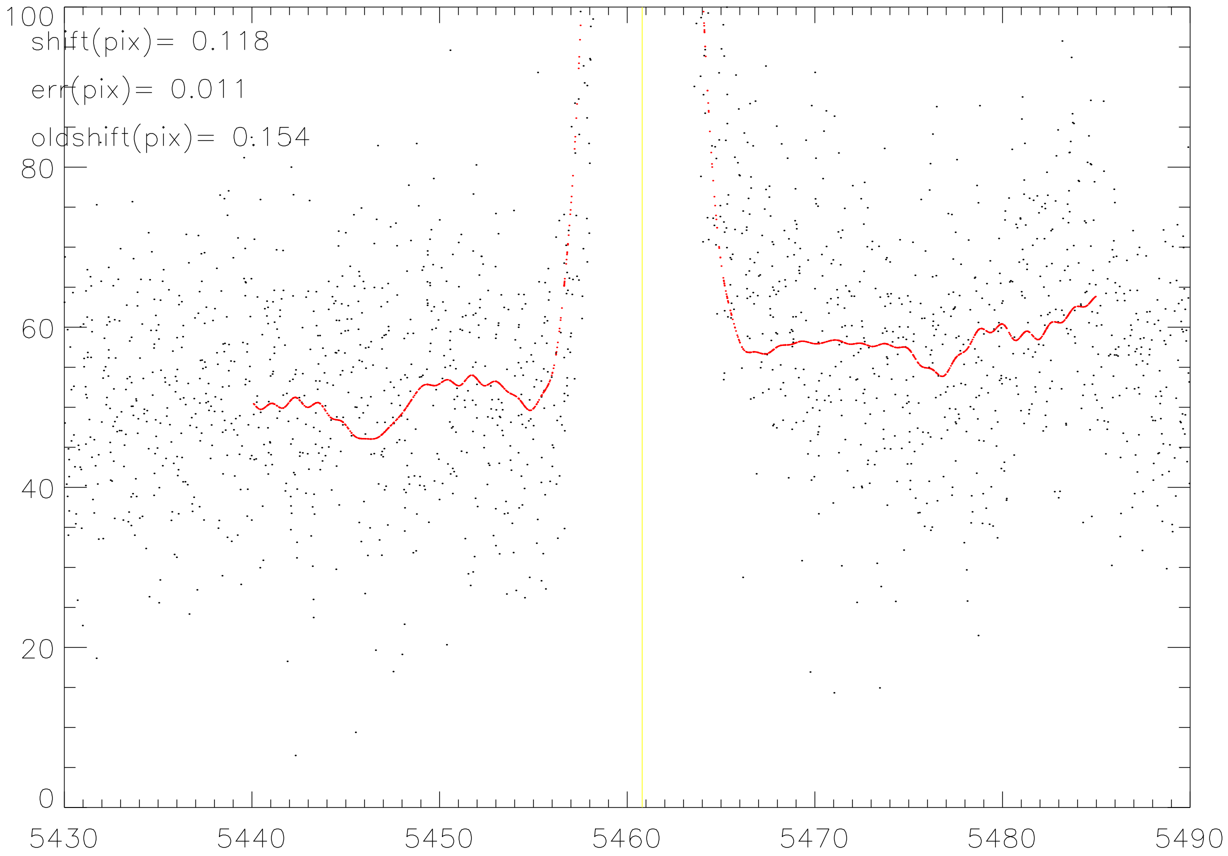

PLATE=2185 MJD=53527 Scattered Light on sdR-b1-00032995.fit
Brightness [electrons/pix]
0
2
4
6
8
10
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.455
Max value = 5.423
Mon Feb 11 01:16:31 2008

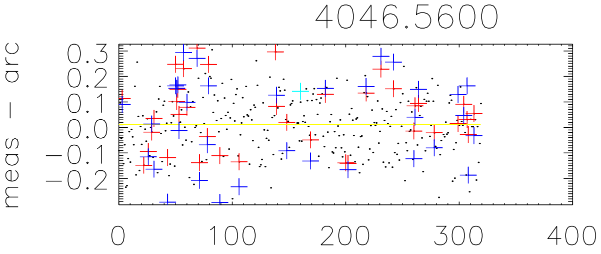

PLATE=2185 MJD=53527 Extraction chi^2 for sdR-b1-00032995.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number

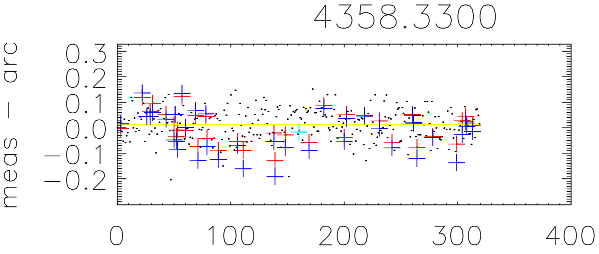

4046.5600
off: 0.01
sig: 0.034
4358.3300
off: −0.02
sig: 0.012
5460.9400
off: 0.15
sig: 0.009
5577.3390
off: 0.15
sig: 0.002
5889.9500
off: 0.23
sig: 0.007
5895.9240
off: 0.25
sig: 0.008
−4
−2
0
2
4

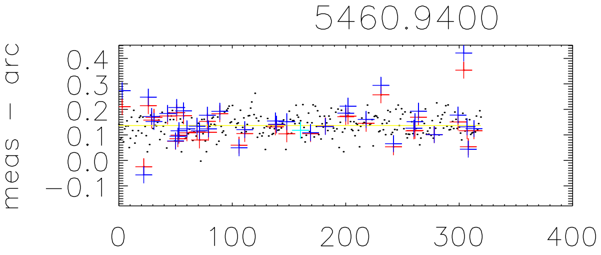

shift(pix)= 0.142
err(pix)= 0.041
oldshift(pix)= 0.014
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

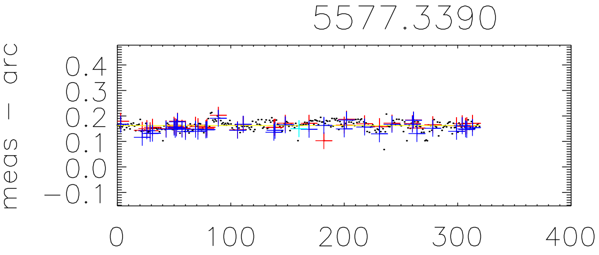

shift(pix)=−0.017
err(pix)= 0.014
oldshift(pix)=−0.017
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

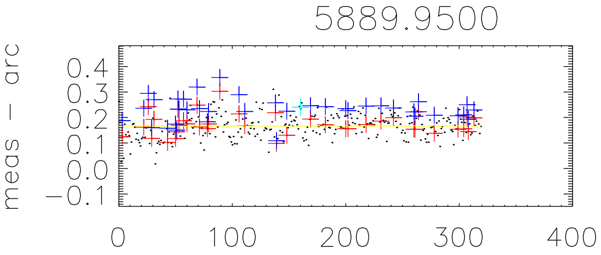

shift(pix)= 0.118
err(pix)= 0.011
oldshift(pix)= 0.154
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

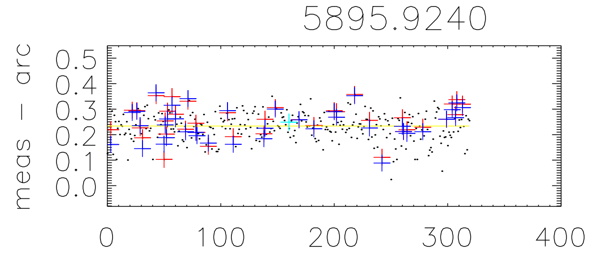

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

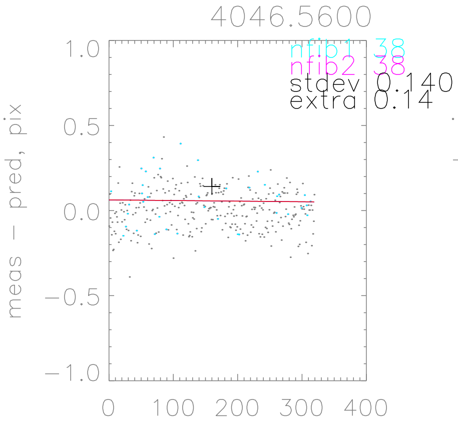

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

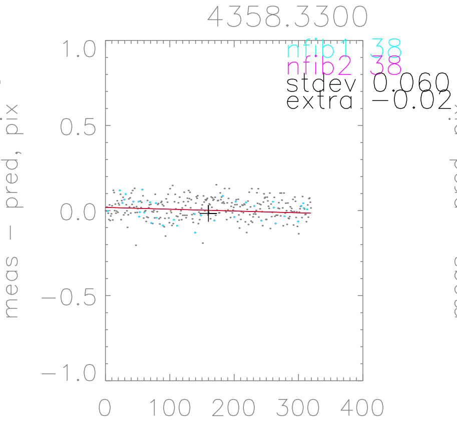

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

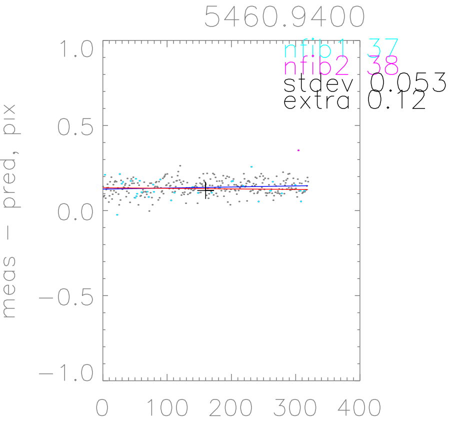

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

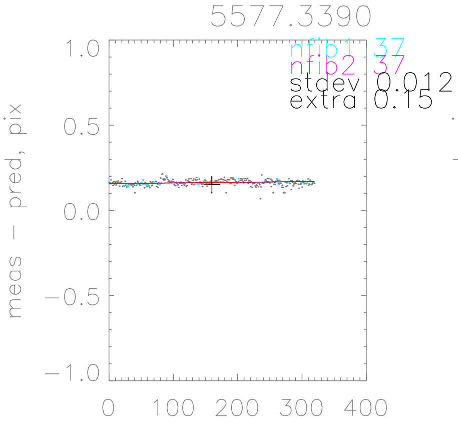

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

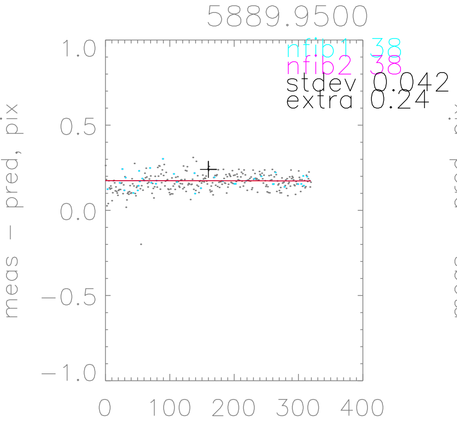

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

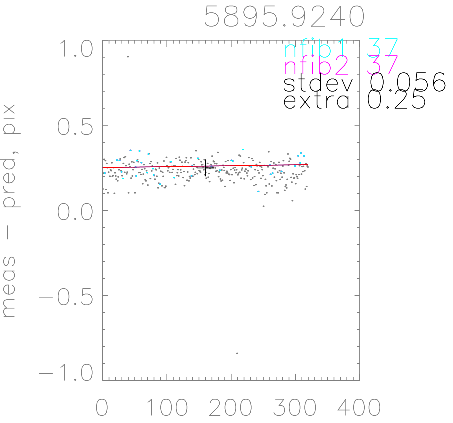

4046.5600
nfib1 38
nfib2 38
stdev 0.140
extra 0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

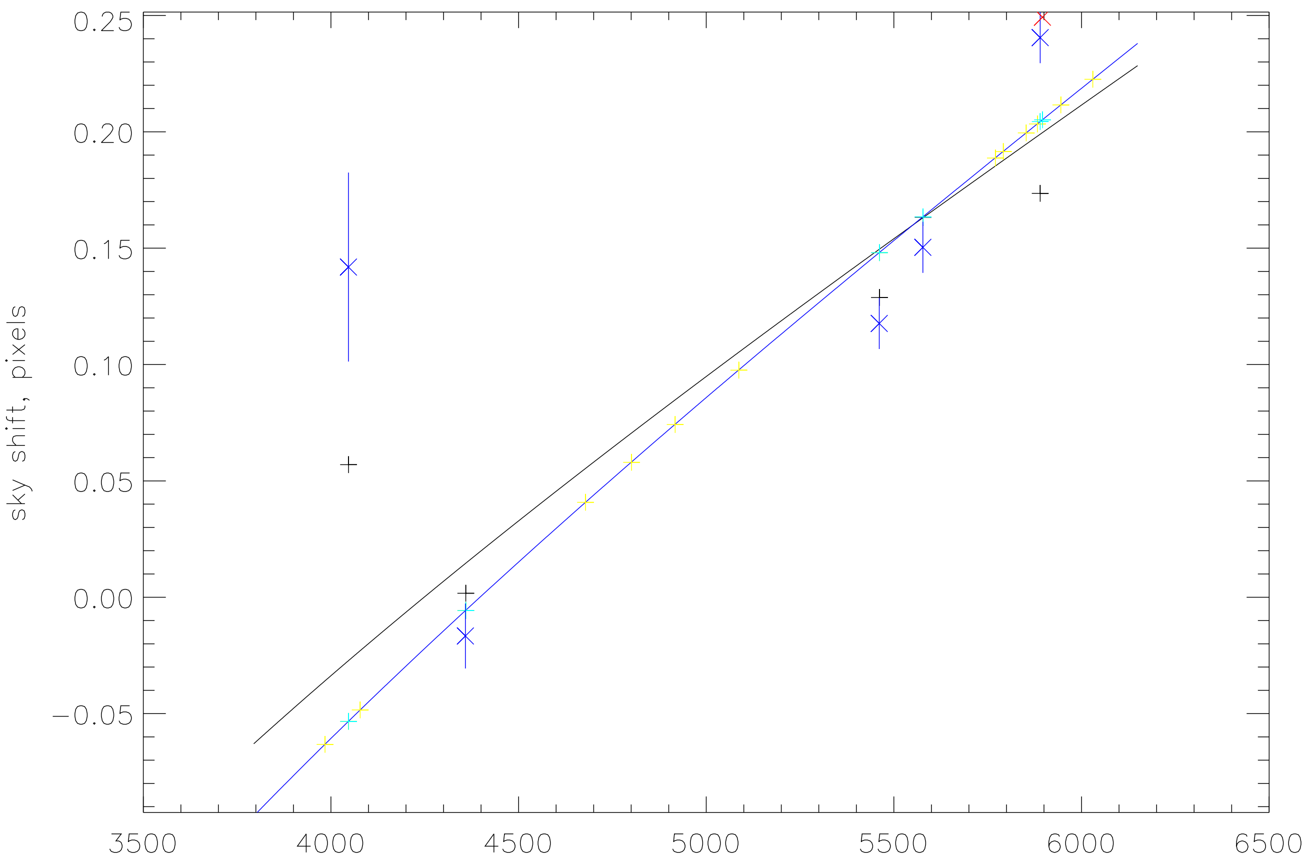

4358.3300
nfib1 38
nfib2 38
stdev 0.060
extra −0.02
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


5460.9400
nfib1 37
nfib2 38
stdev 0.053
extra 0.12
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

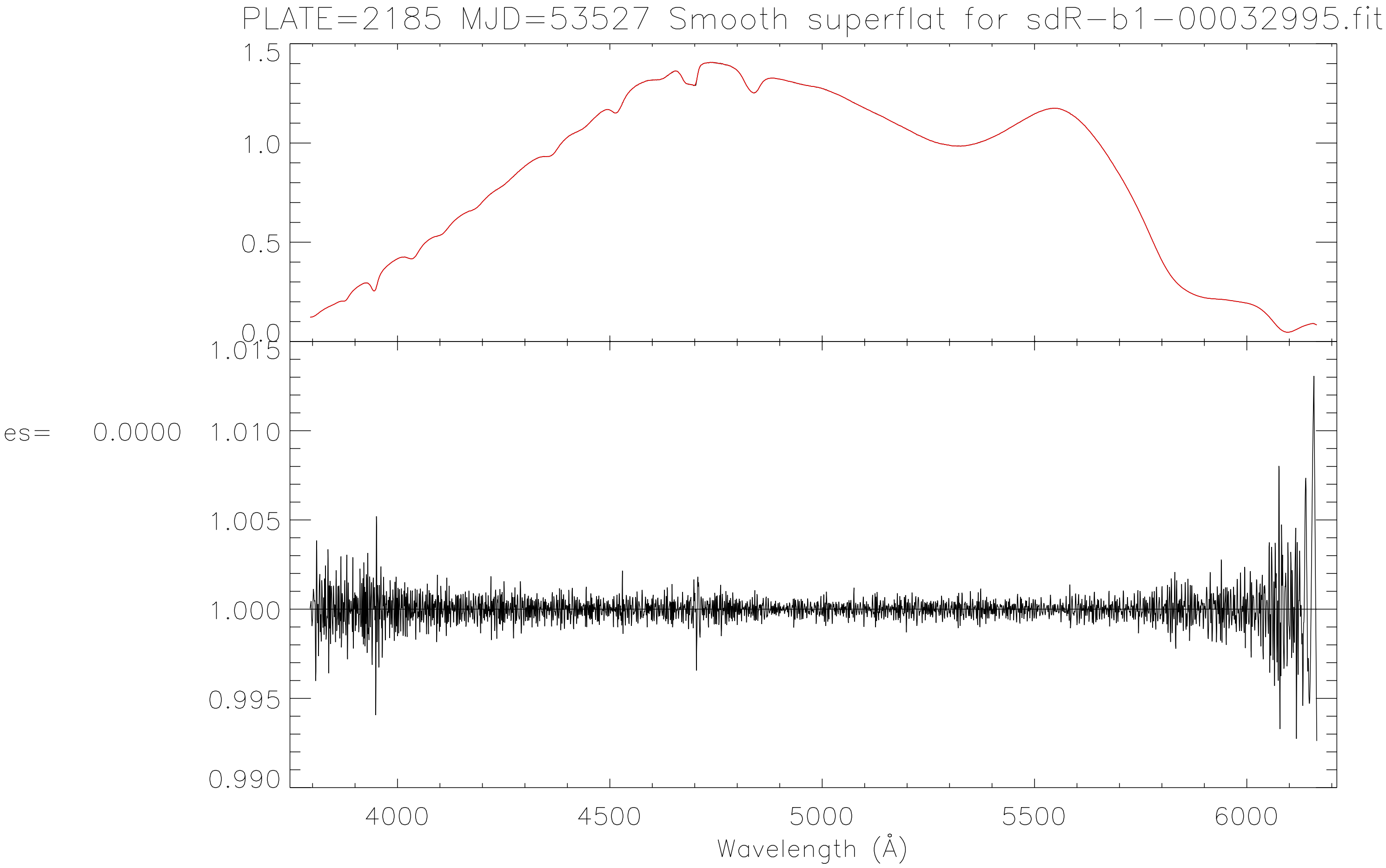

5577.3390
nfib1 37
nfib2 37
stdev 0.012
extra 0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

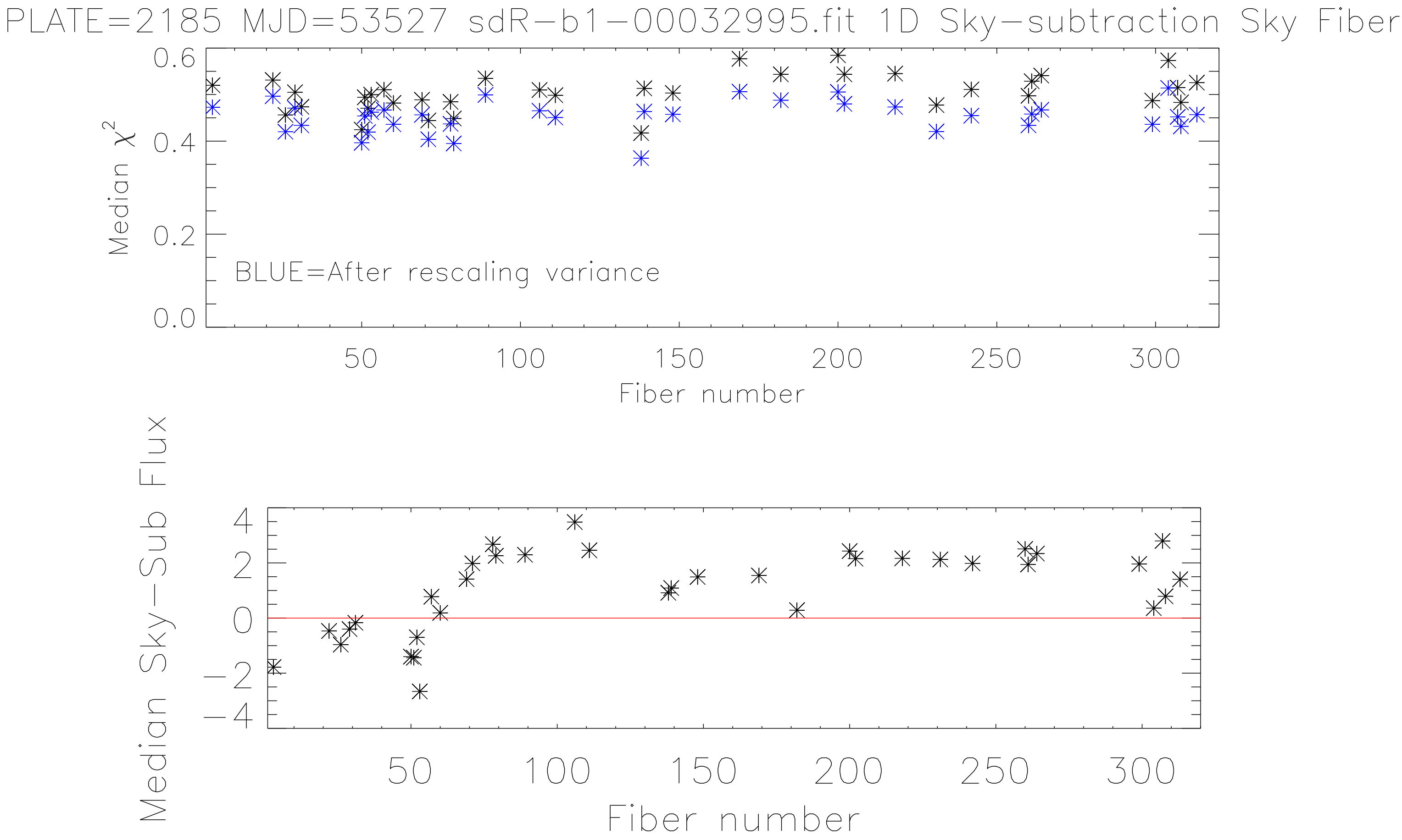

5889.9500
nfib1 38
nfib2 38
stdev 0.042
extra 0.24
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

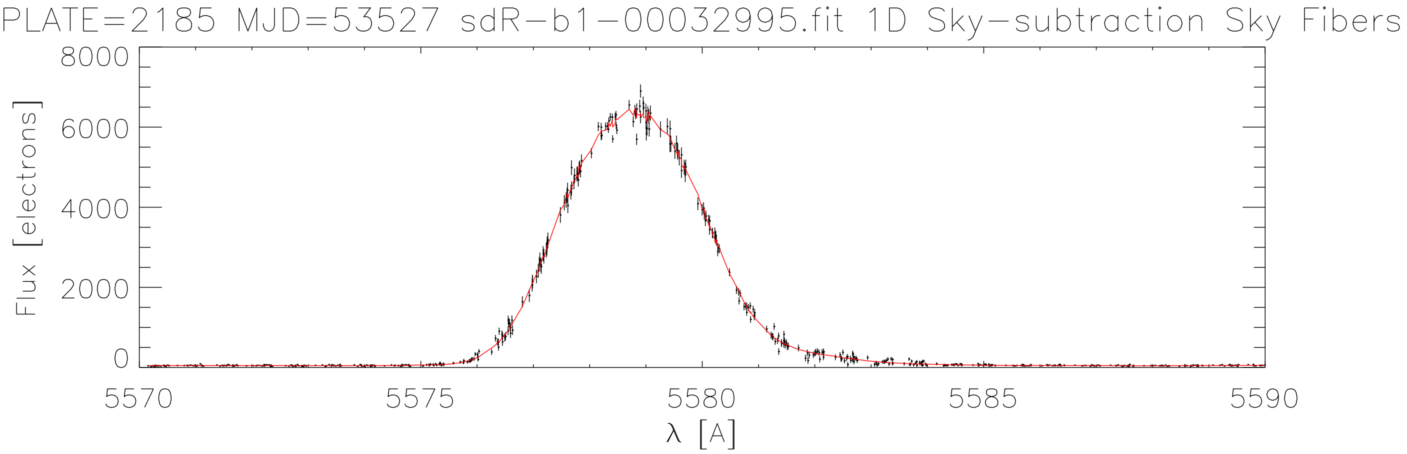

5895.9240
nfib1 37
nfib2 37
stdev 0.056
extra 0.25
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

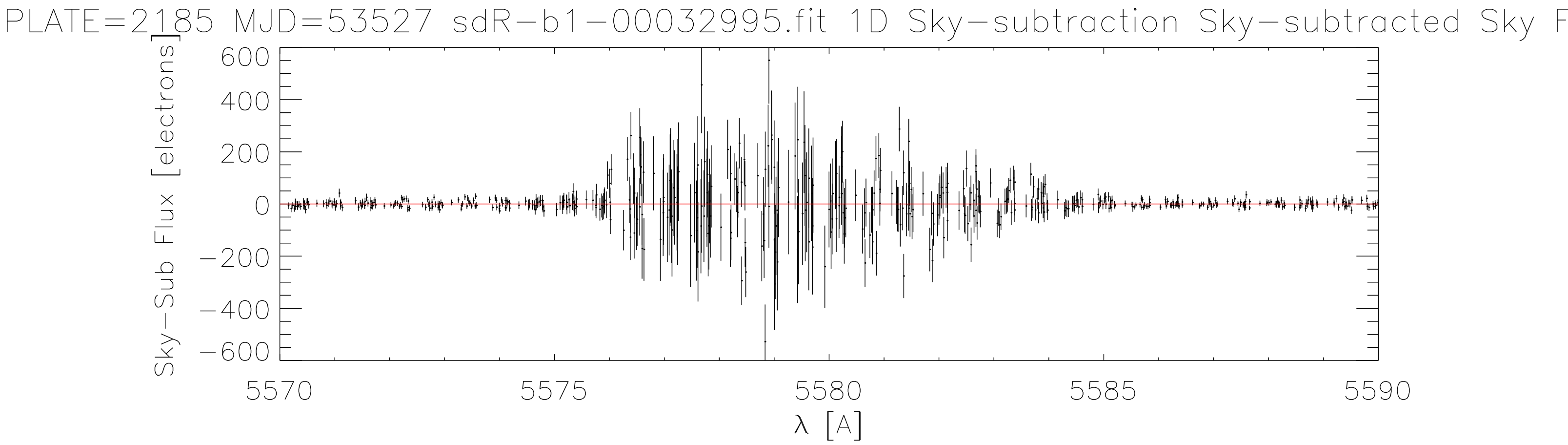


sky shift, pixels
0.25
0.20
0.15
0.10
0.05
0.00
−0.05
3500
4000
4500
5000
5500
6000
6500


PLATE=2185 MJD=53527 Smooth superflat for sdR-b1-00032995.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)

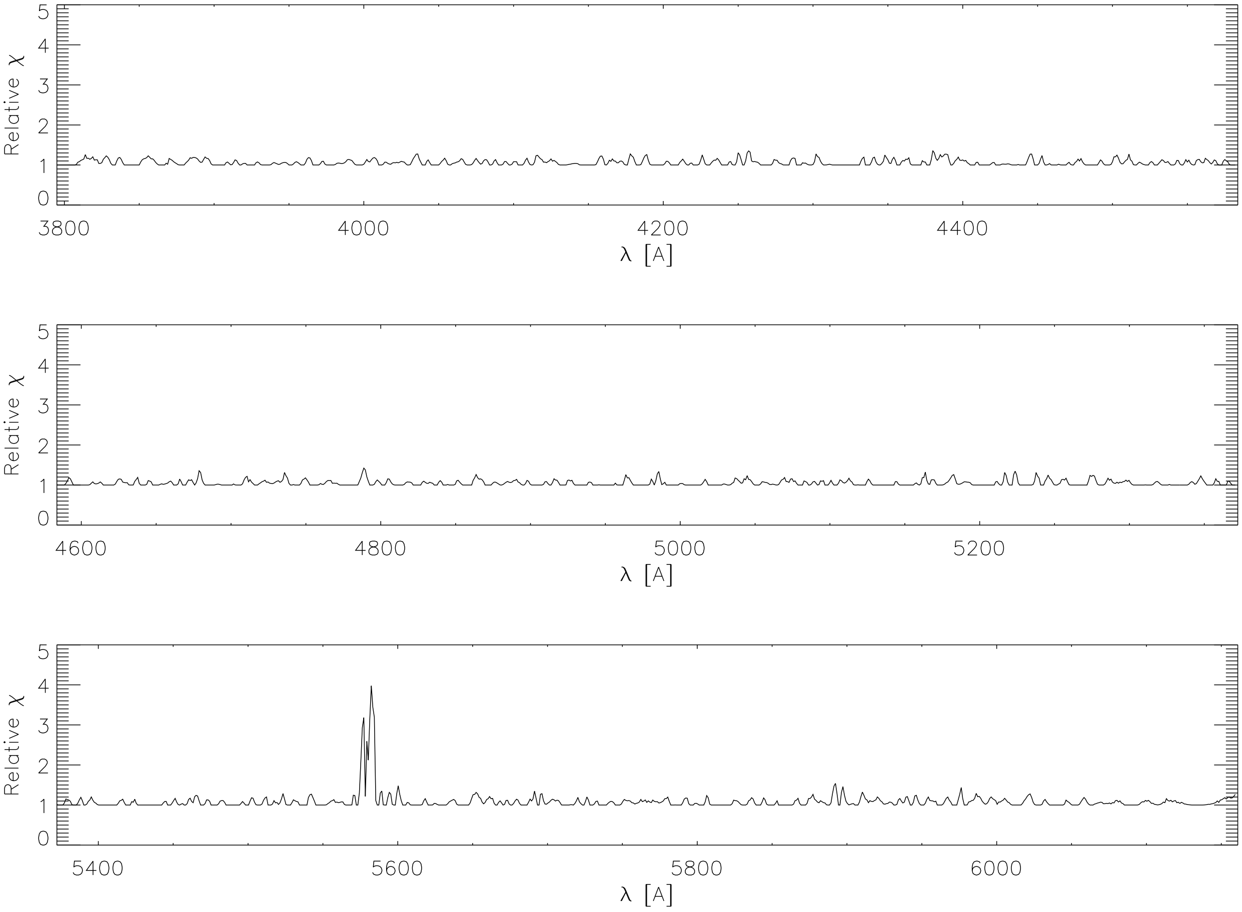

PLATE=2185 MJD=53527 sdR-b1-00032995.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
4
2
0
−2
−4
50
100
150
200
250
300
Fiber number

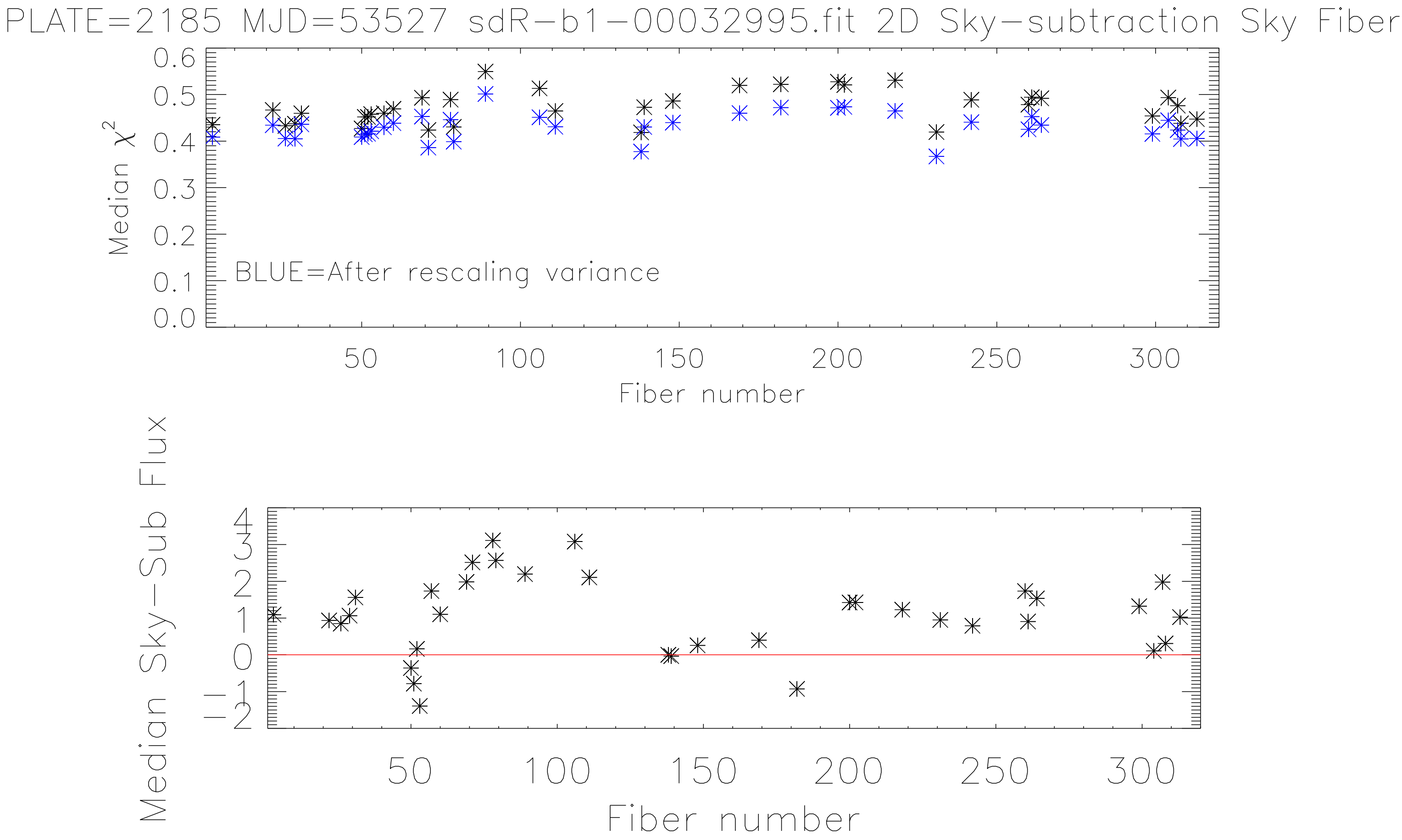

PLATE=2185 MJD=53527 sdR-b1-00032995.fit 1D Sky-subtraction Sky Fibers

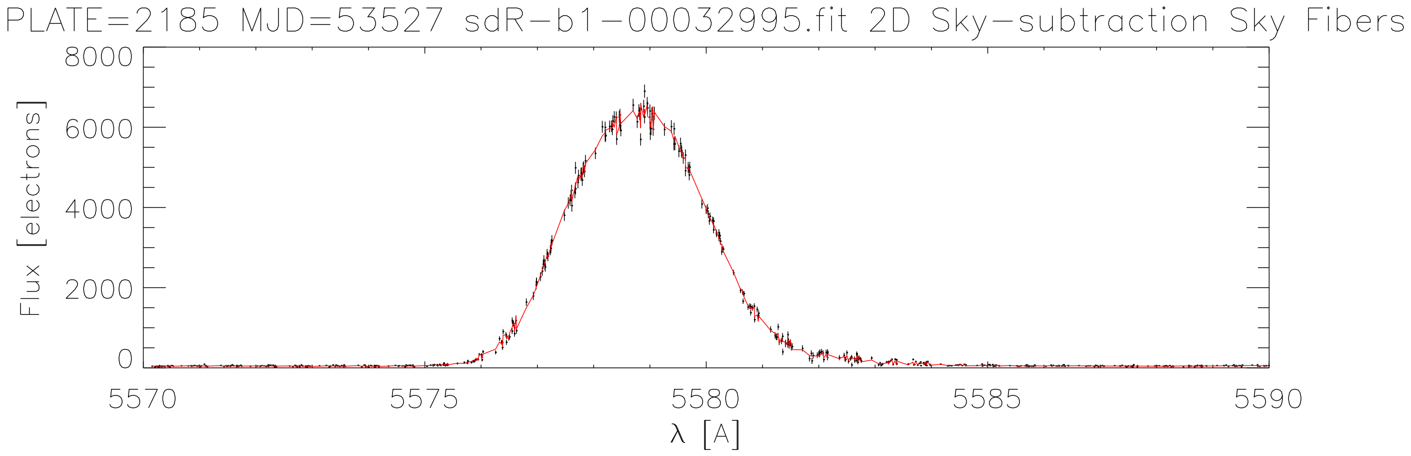

PLATE=2185 MJD=53527 sdR-b1-00032995.fit 1D Sky-subtraction Sky-subtracted Sky F

Number of sky fibers = 36

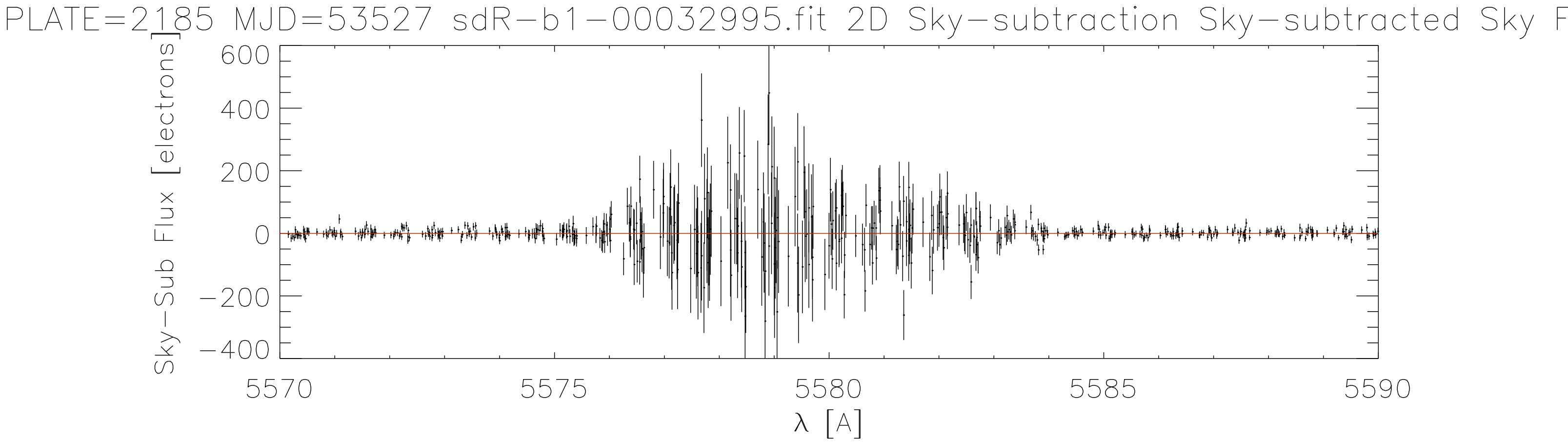
PLATE=2185 MJD=53527 sdR-b1-00032995.fit 1D Sky-subtraction Rescaled Errors



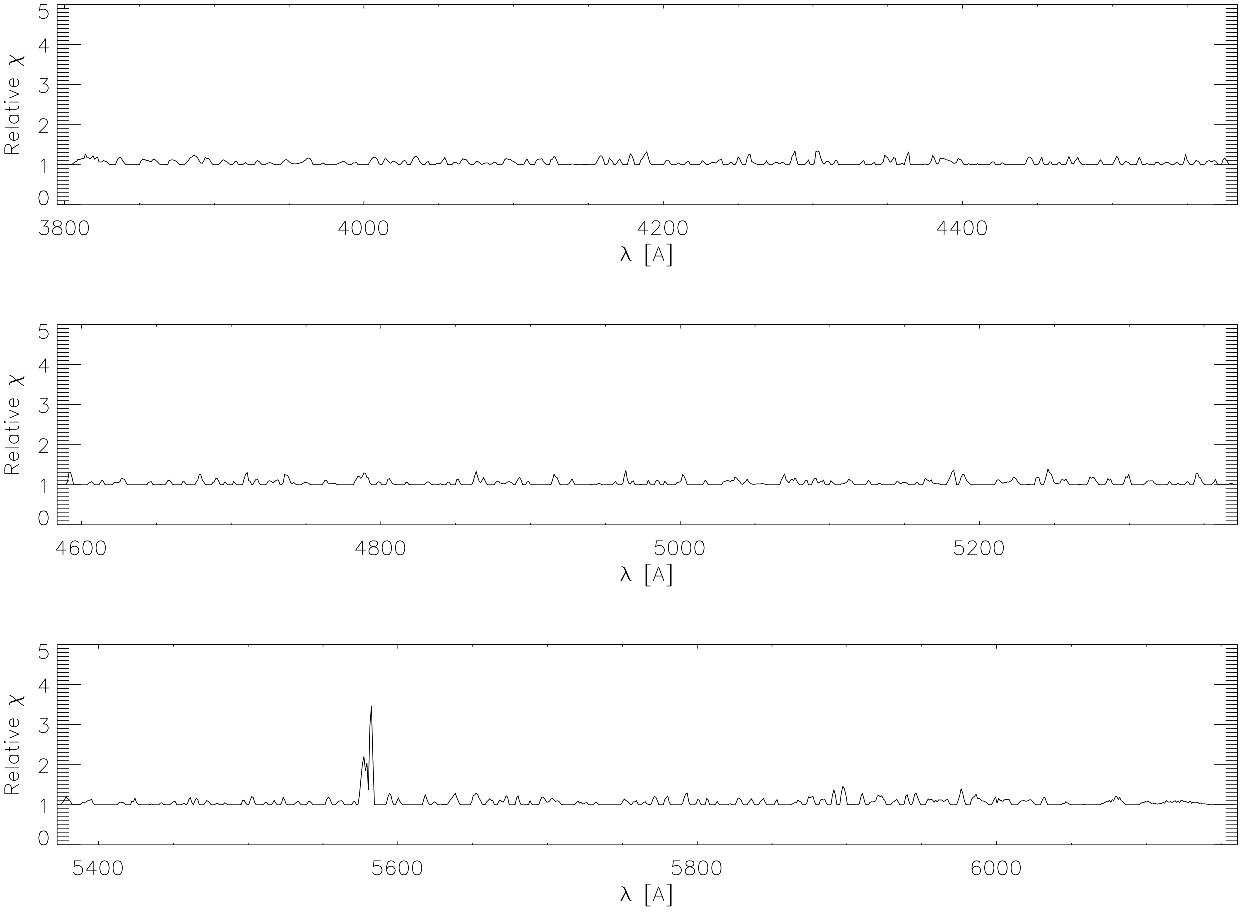

PLATE=2185 MJD=53527 sdR-b1-00032995.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.6
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
4
3
2
1
0
-1
-2
50
100
150
200
250
300
Fiber number



PLATE=2185 MJD=53527 sdR-b1-00032995.fit 2D Sky-subtraction Sky Fibers

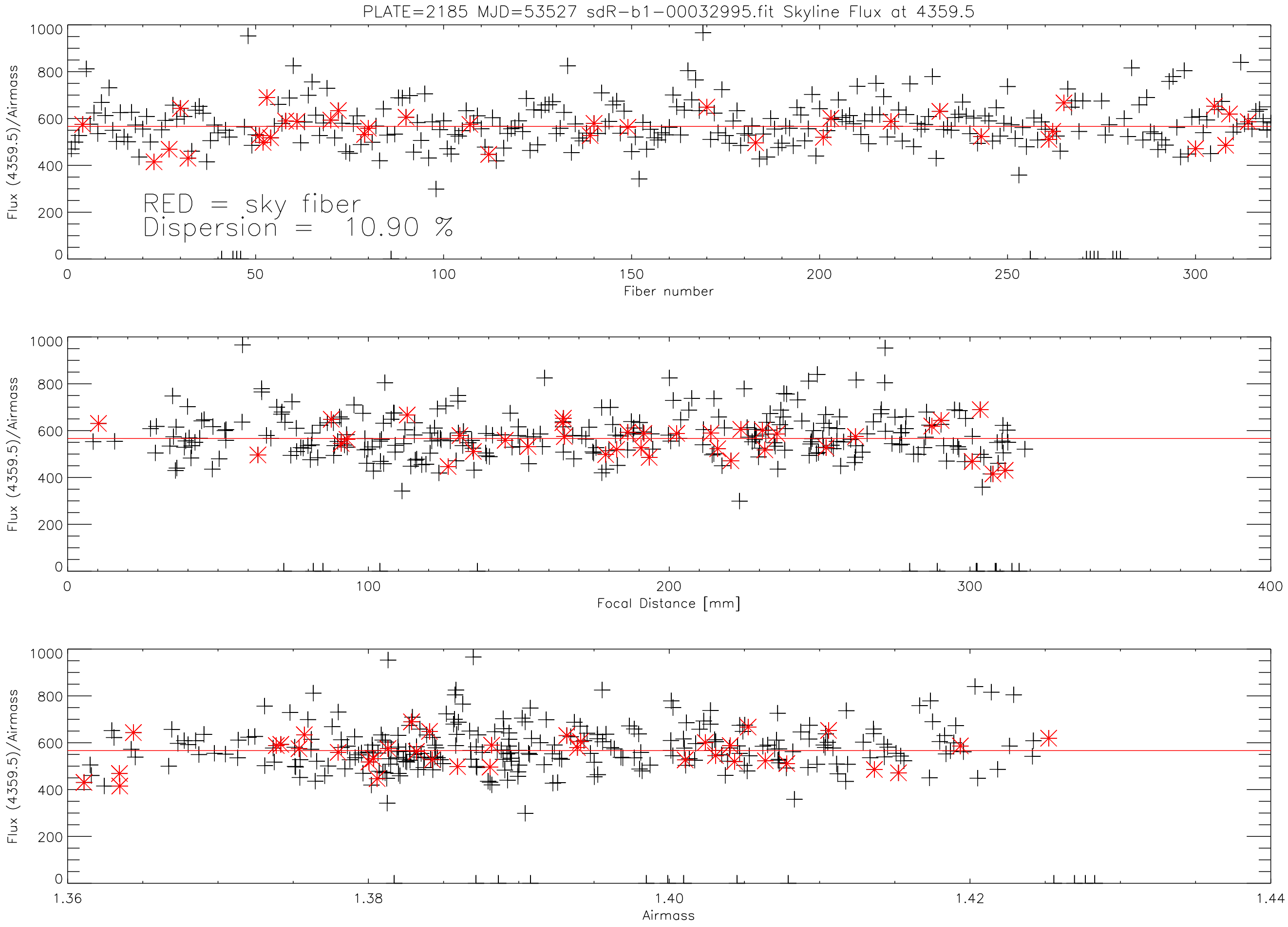


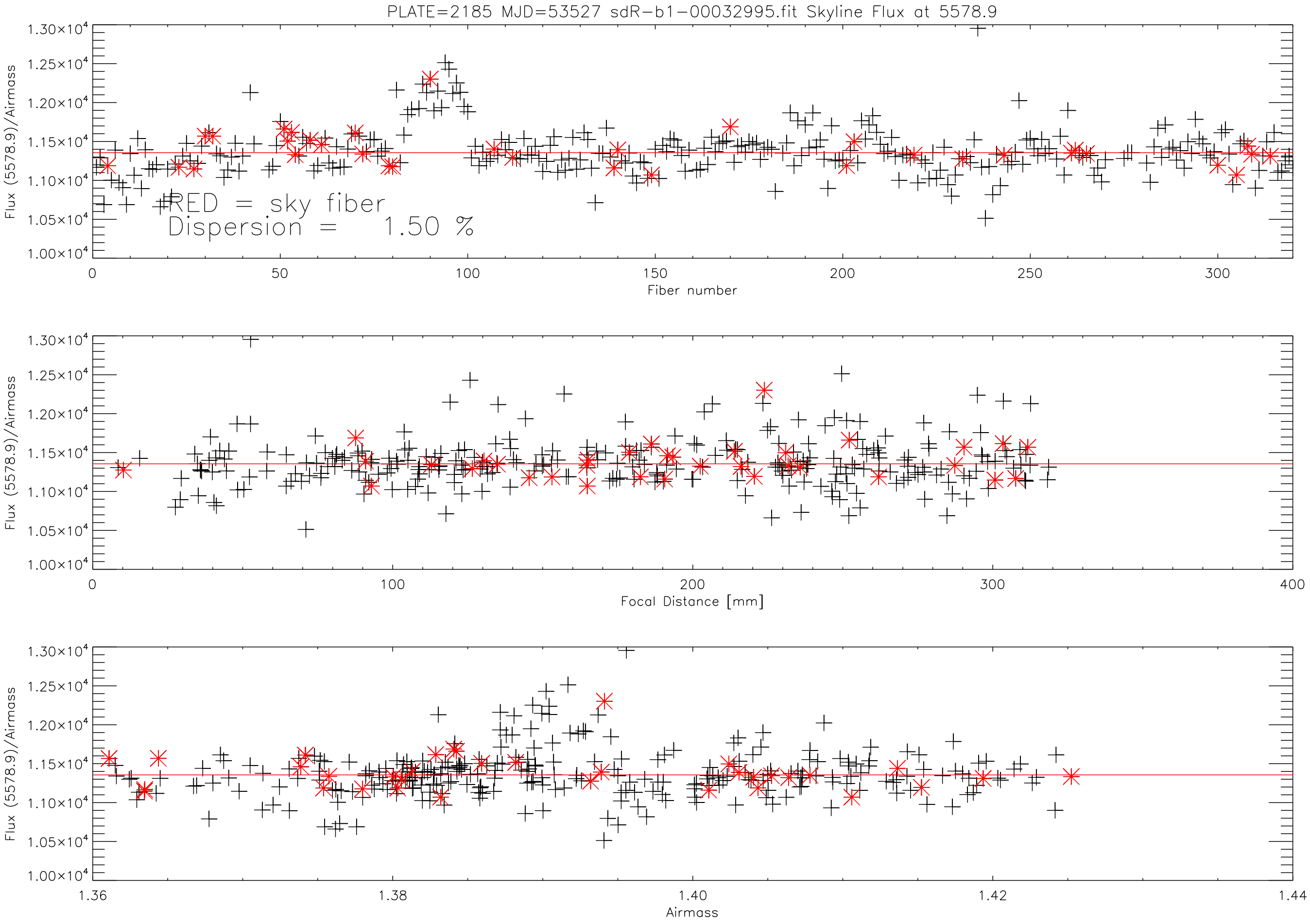
PLATE=2185 MJD=53527 sdR-b1-00032995.fit 2D Sky-subtraction Sky-subtracted Sky F



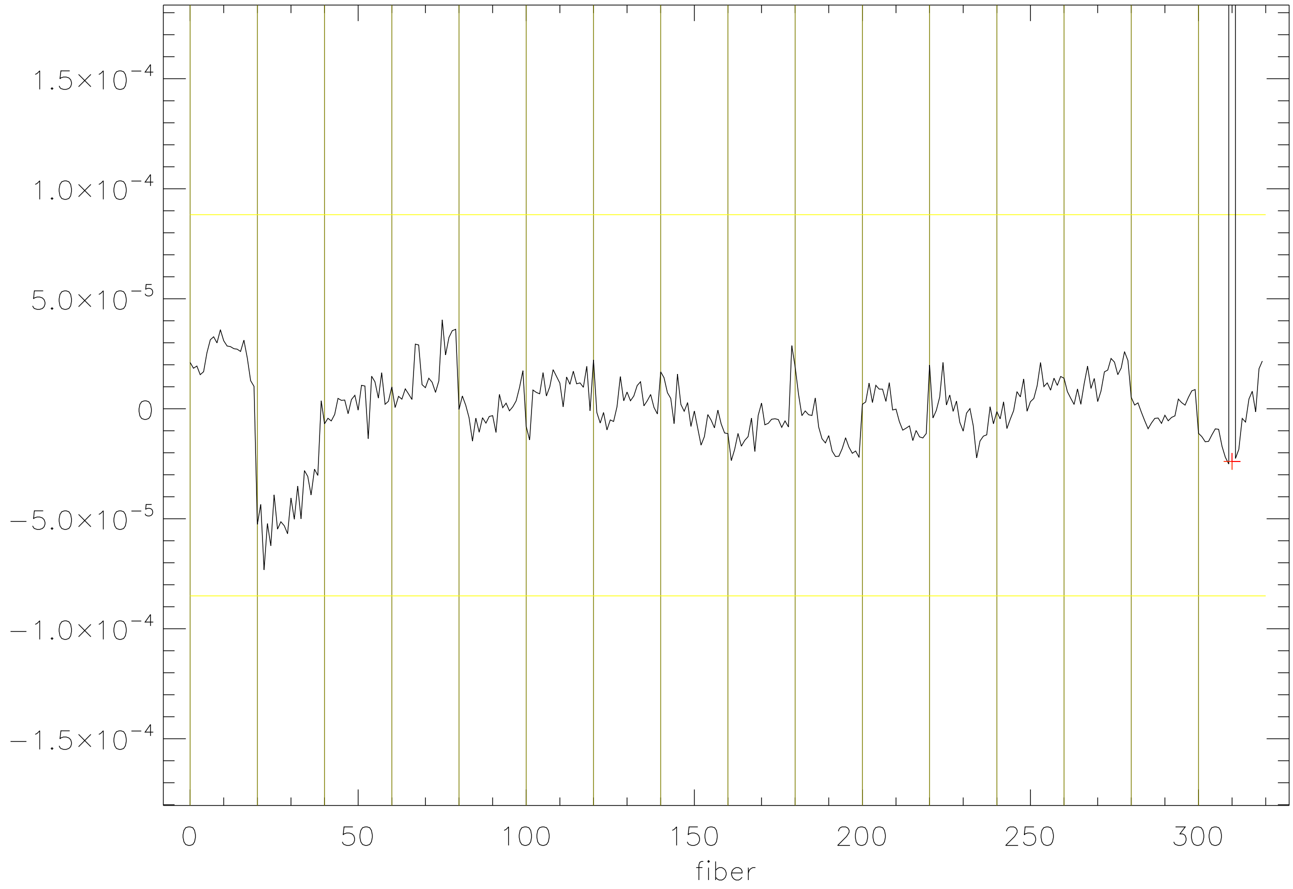
Number of sky fibers = 36

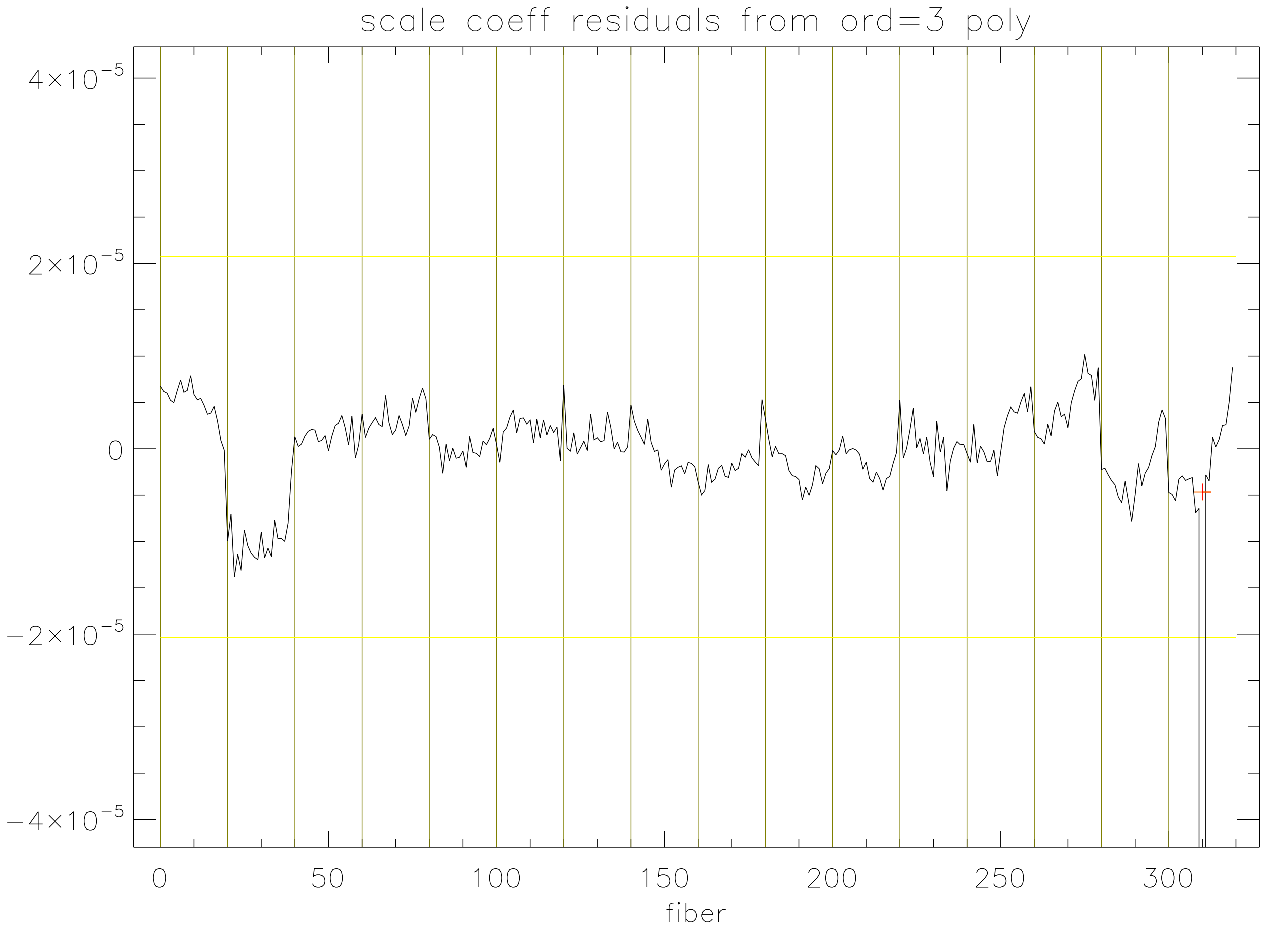
PLATE=2185 MJD=53527 sdR-b1-00032995.fit 2D Sky-subtraction Rescaled Errors

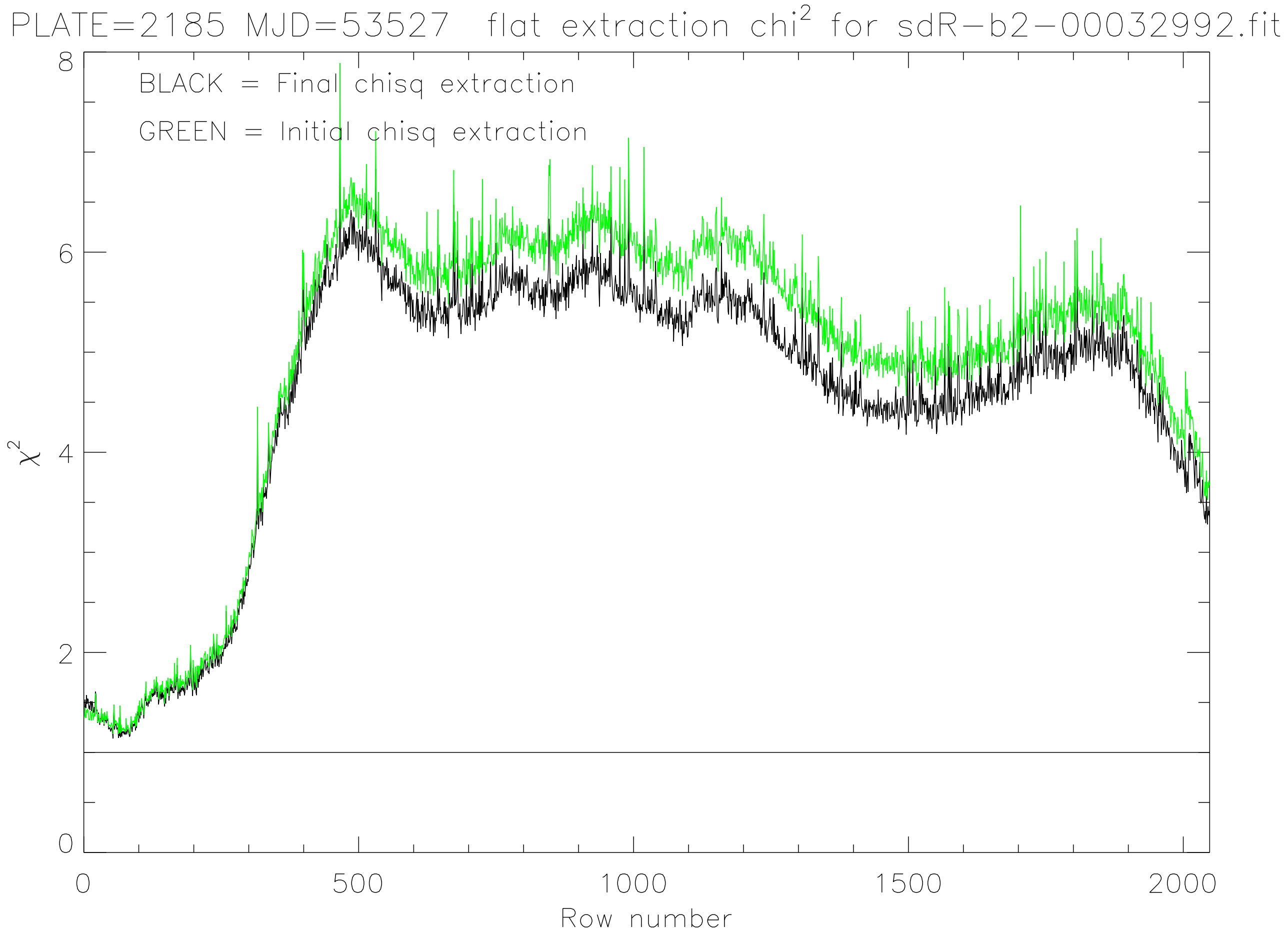

PLATE=2185 MJD=53527 sdR-b1-00032995.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
1000
800
600
400
200
0
RED = sky fiber
Dispersion = 10.90 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
1000
800
600
400
200
0
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
1000
800
600
400
200
0
1.36
1.38
1.40
1.42
1.44
Airmass

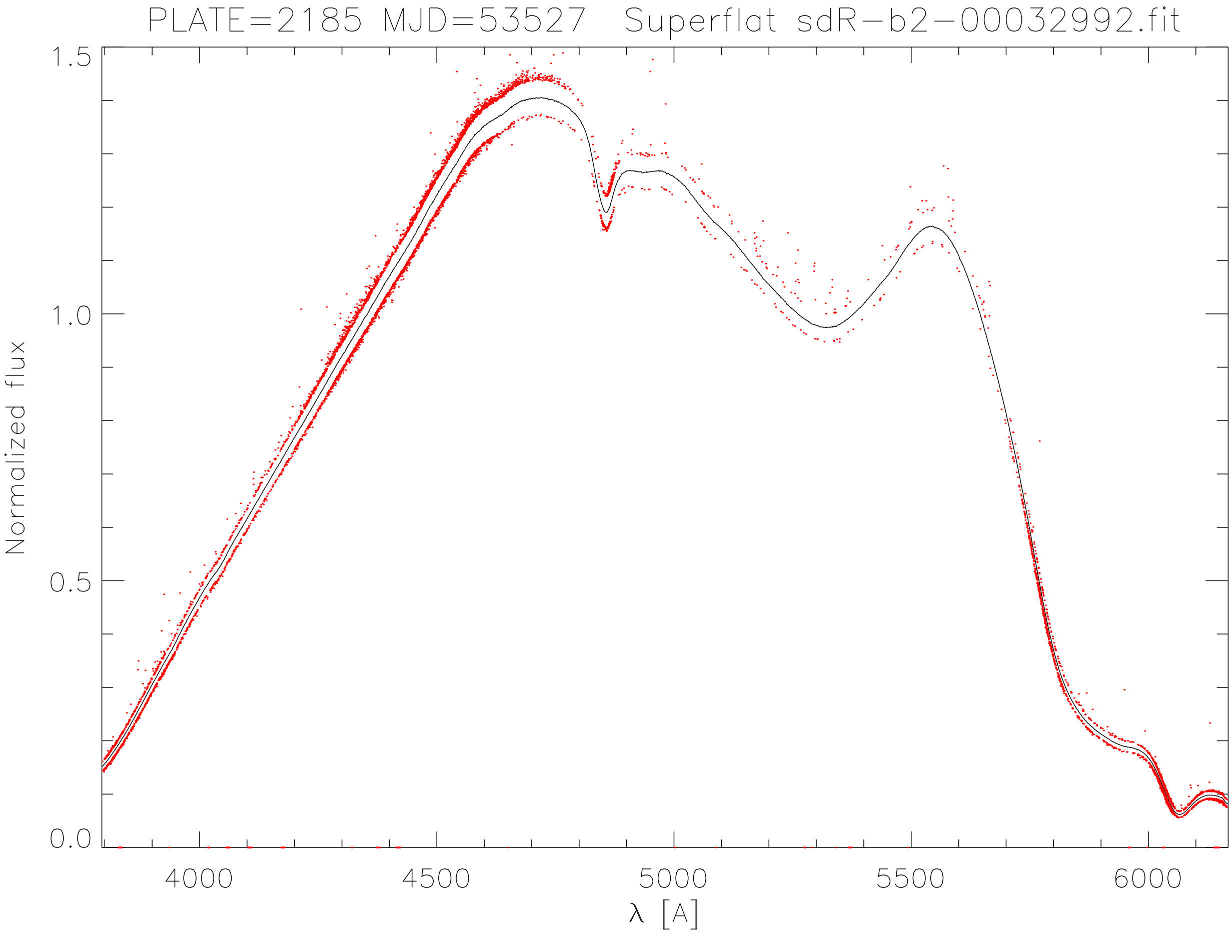

PLATE=2185 MJD=53527 sdR-b1-00032995.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.30×10^4
1.25×10^4
1.20×10^4
1.15×10^4
1.10×10^4
1.05×10^4
1.00×10^4
RED = sky fiber
Dispersion = 1.50 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.36
1.38
1.40
1.42
1.44
Airmass

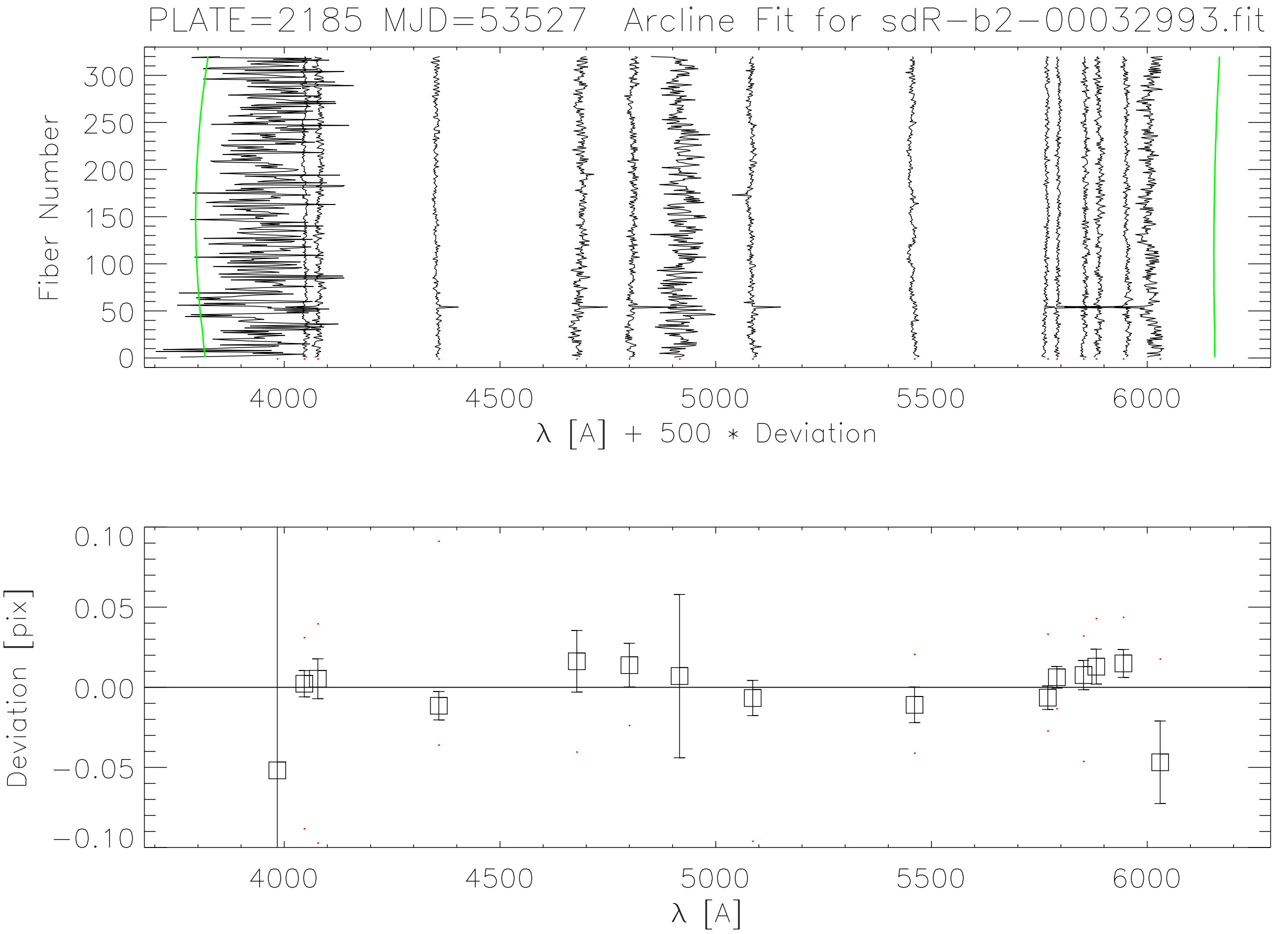
offset coeff residuals from ord=3 poly



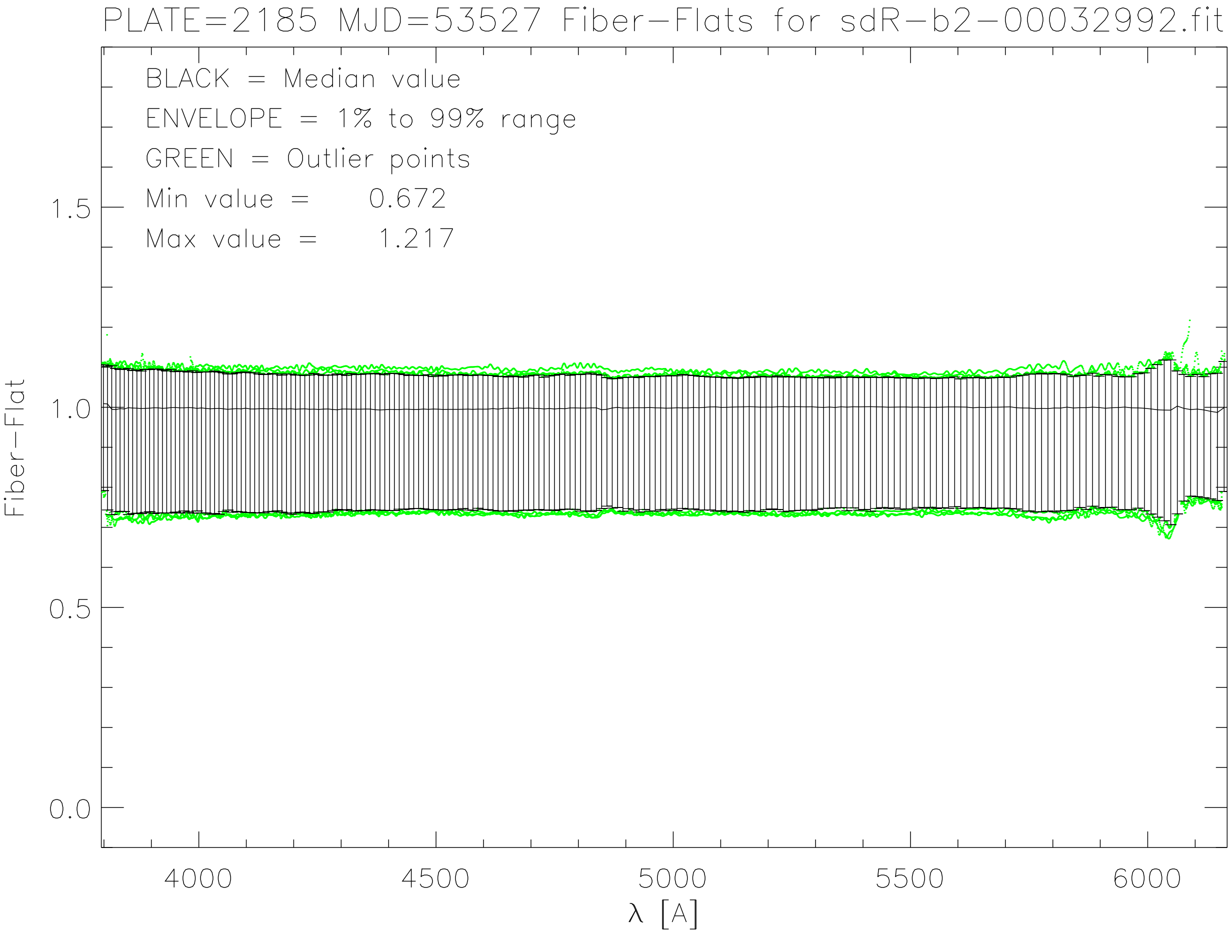

scale coeff residuals from ord=3 poly
4×10^{-5}
2×10^{-5}
0
−2×10^{-5}
−4×10^{-5}
0
50
100
150
200
250
300
fiber


PLATE=2185 MJD=53527 flat extraction chi^2 for sdR-b2-00032992.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number


PLATE=2185 MJD=53527 Superflat sdR-b2-00032992.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000

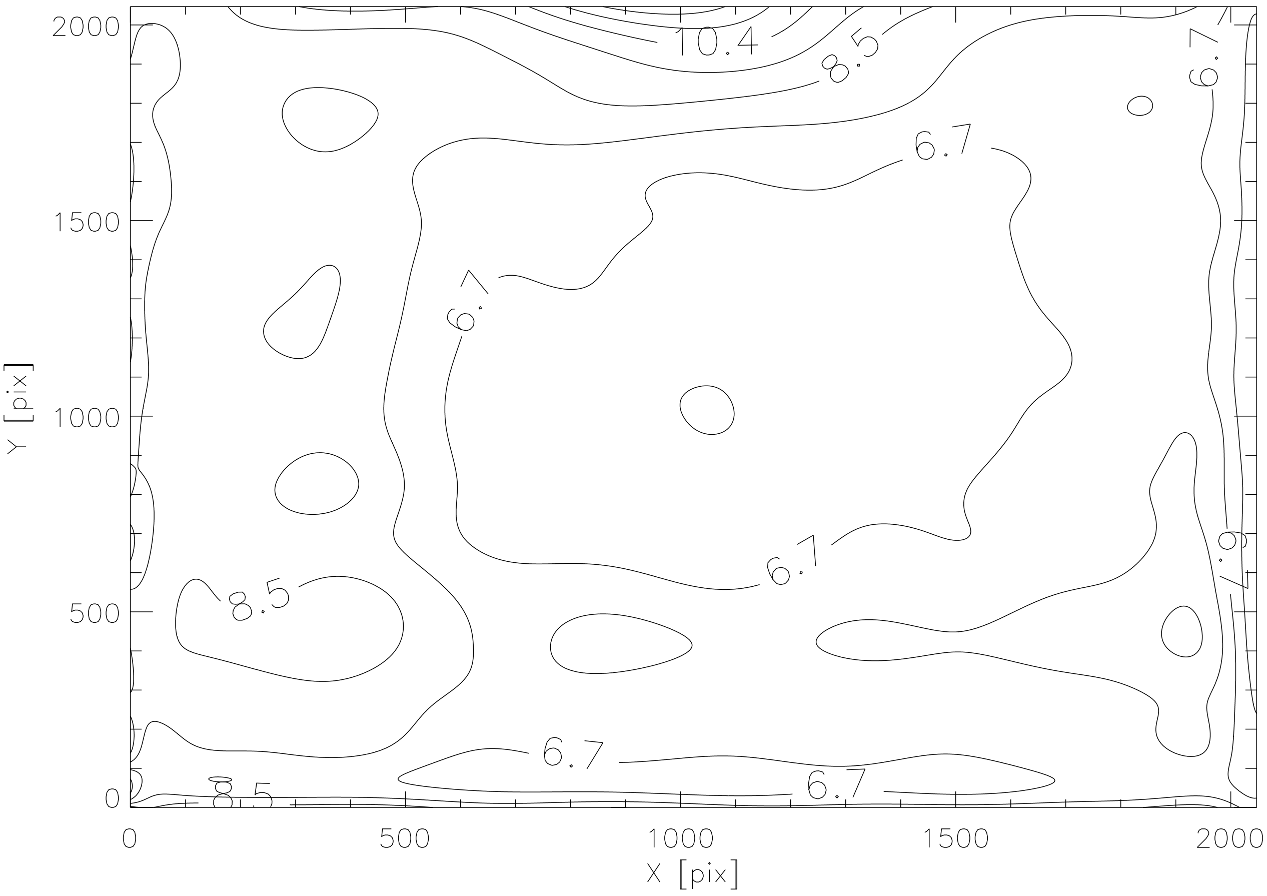

PLATE=2185 MJD=53527 Arcline Fit for sdR-b2-00032993.fit

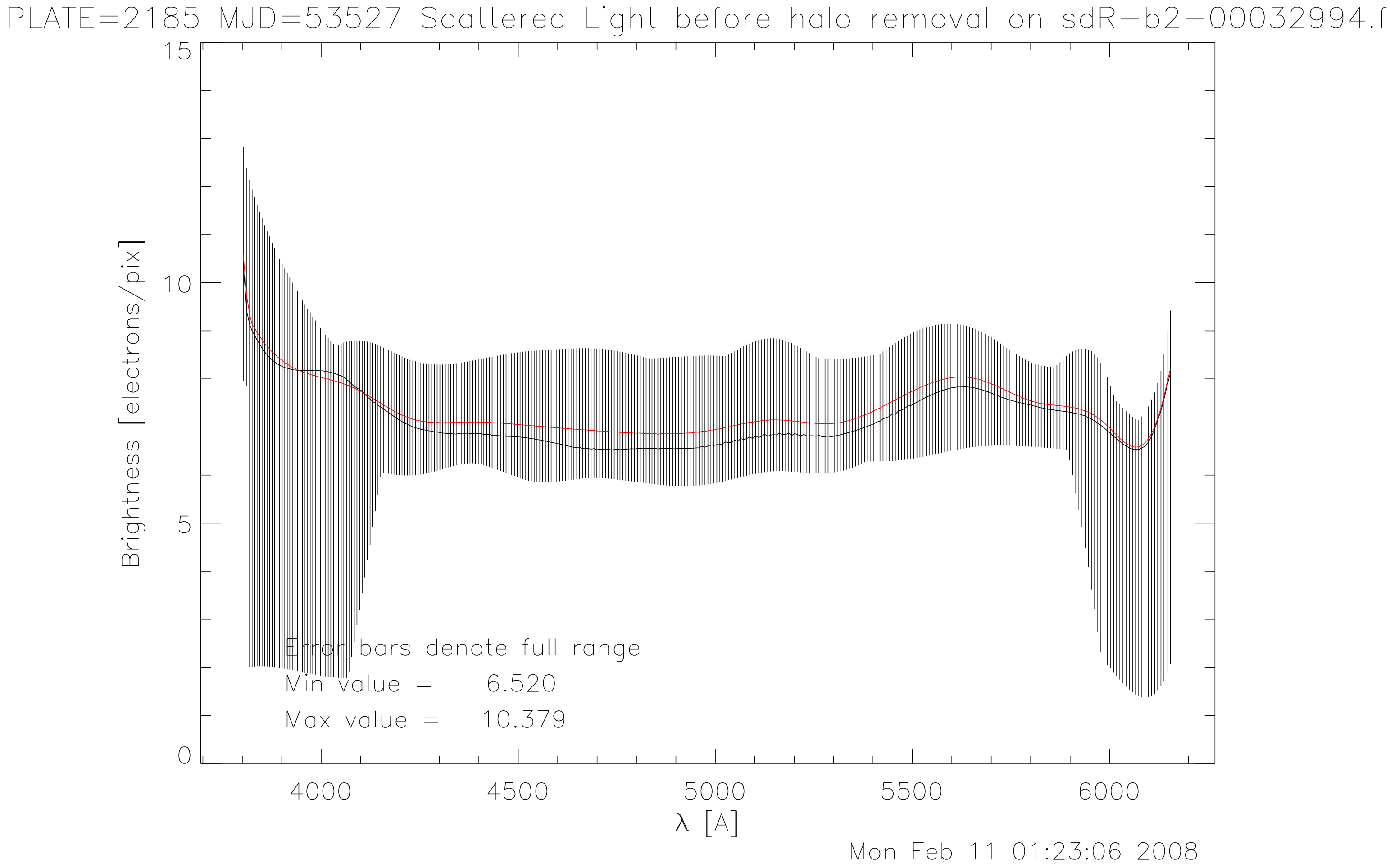
Mon Feb 11 01:22:08 2008

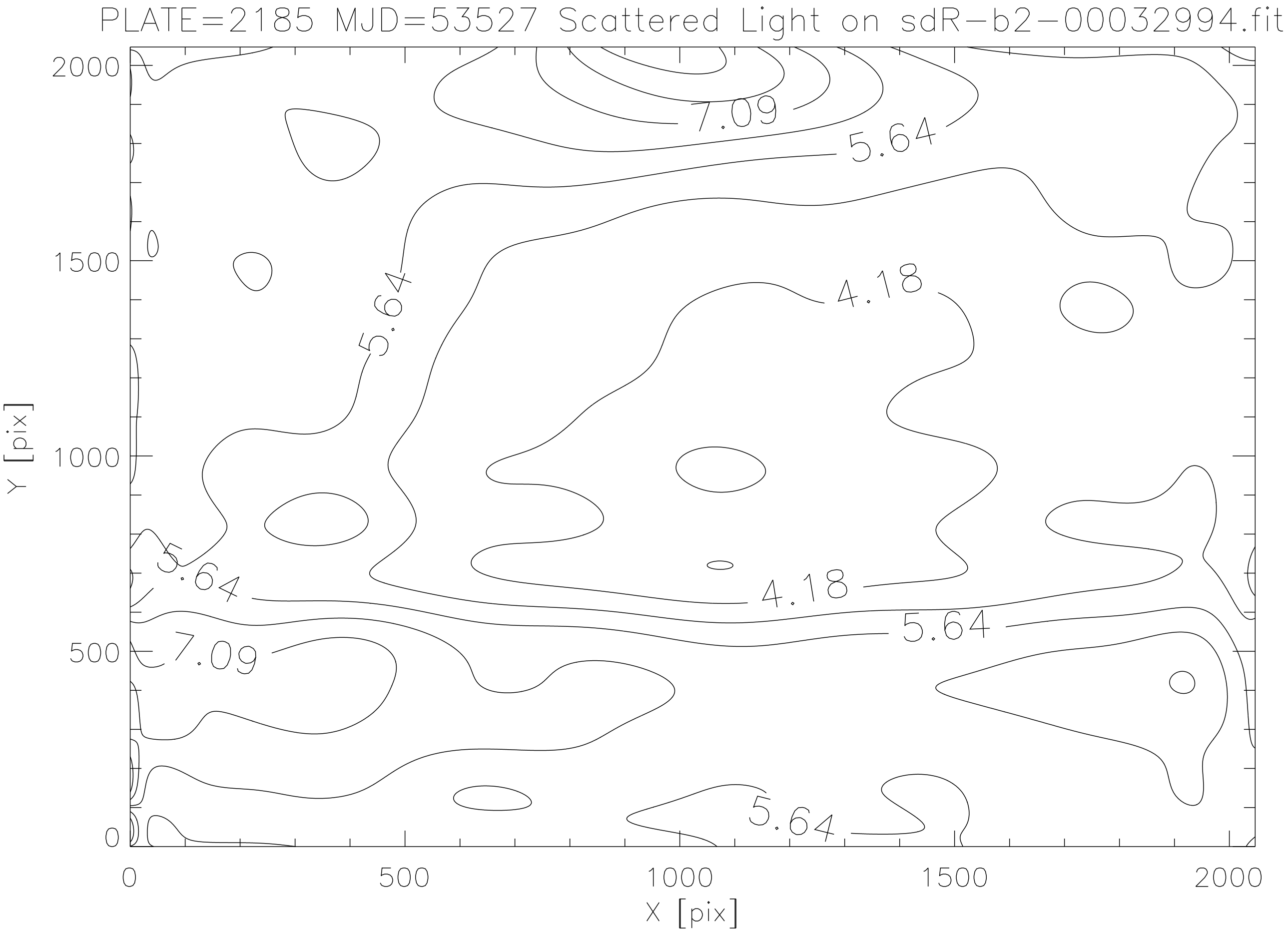


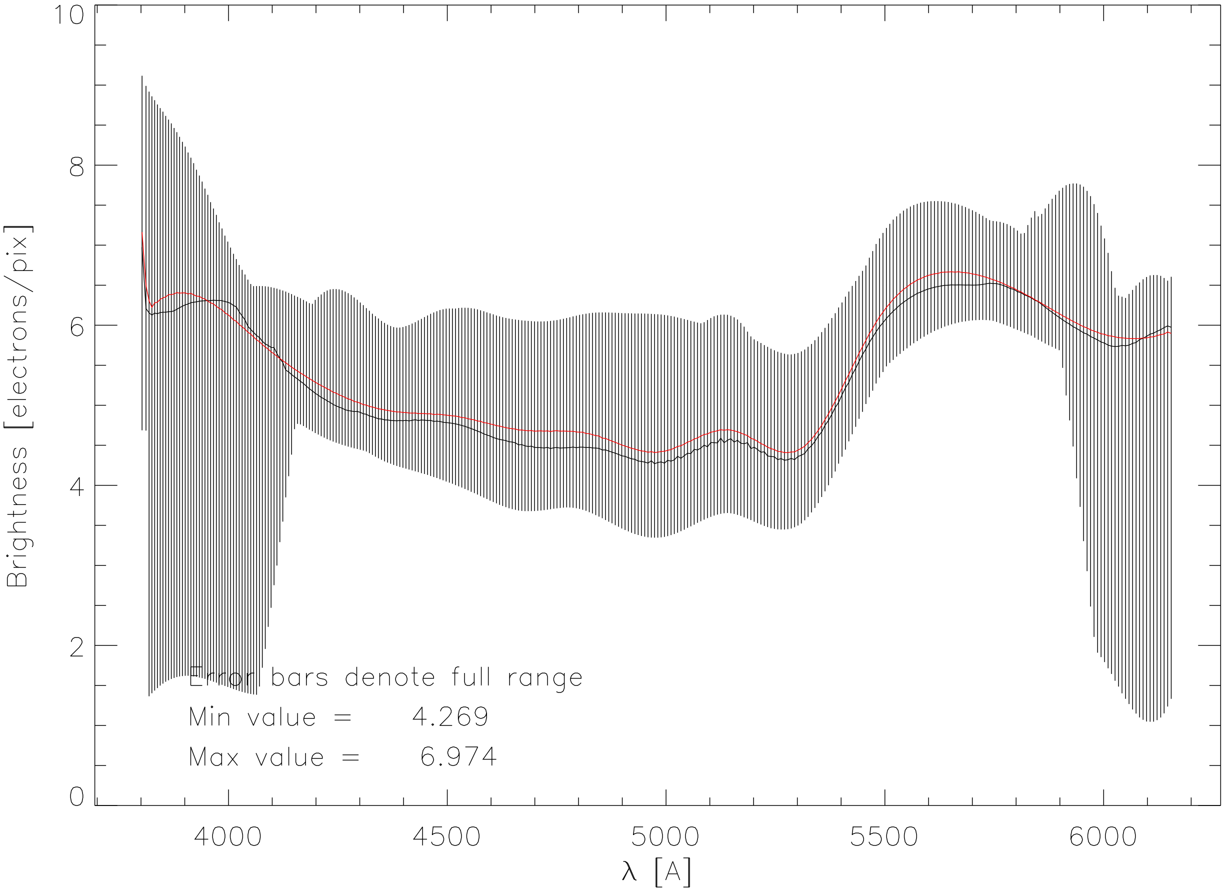
Mon Feb 11 01:22:15 2008

PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-b2-00032994.f



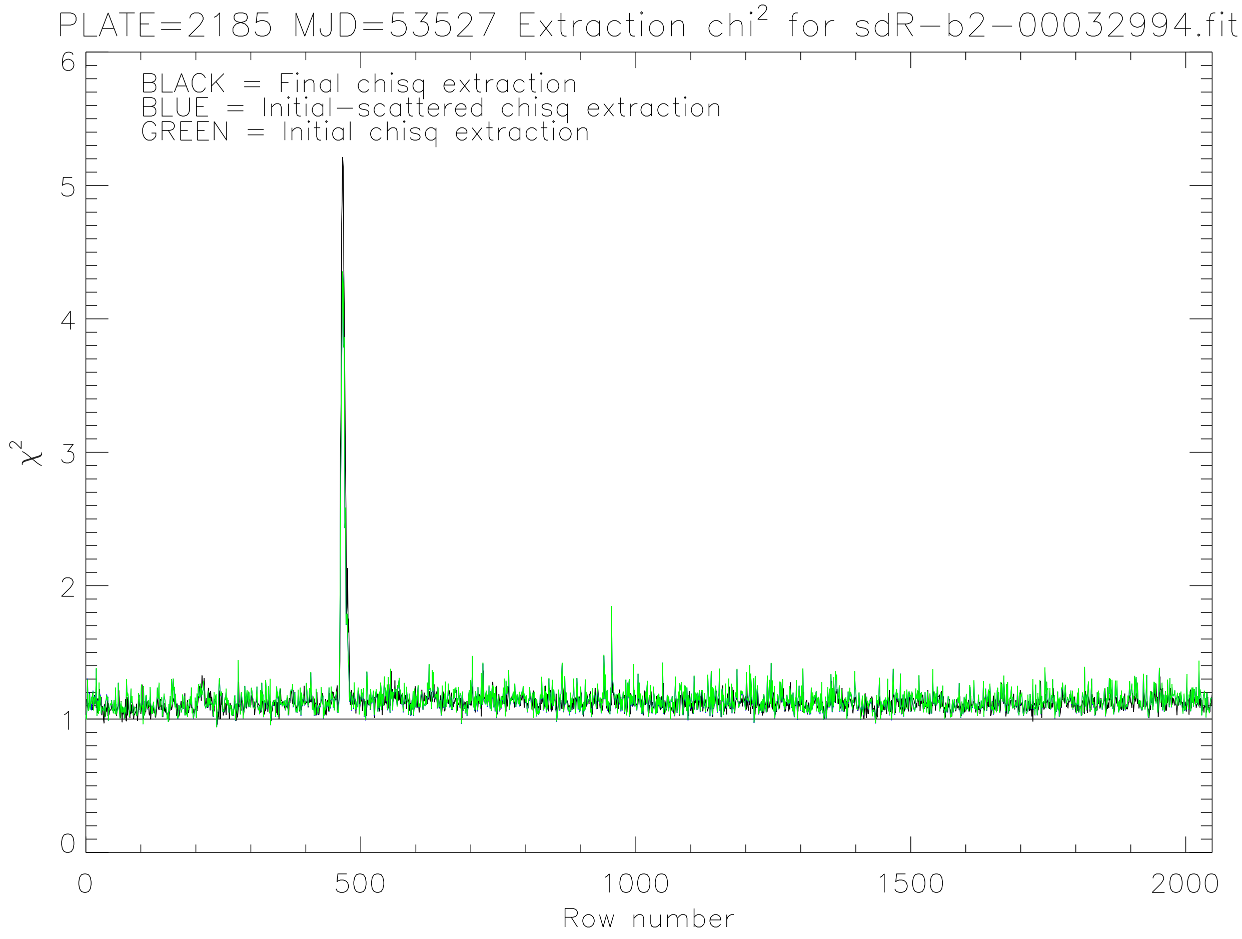
PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-b2-00032994.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 6.520
Max value = 10.379
Mon Feb 11 01:23:06 2008

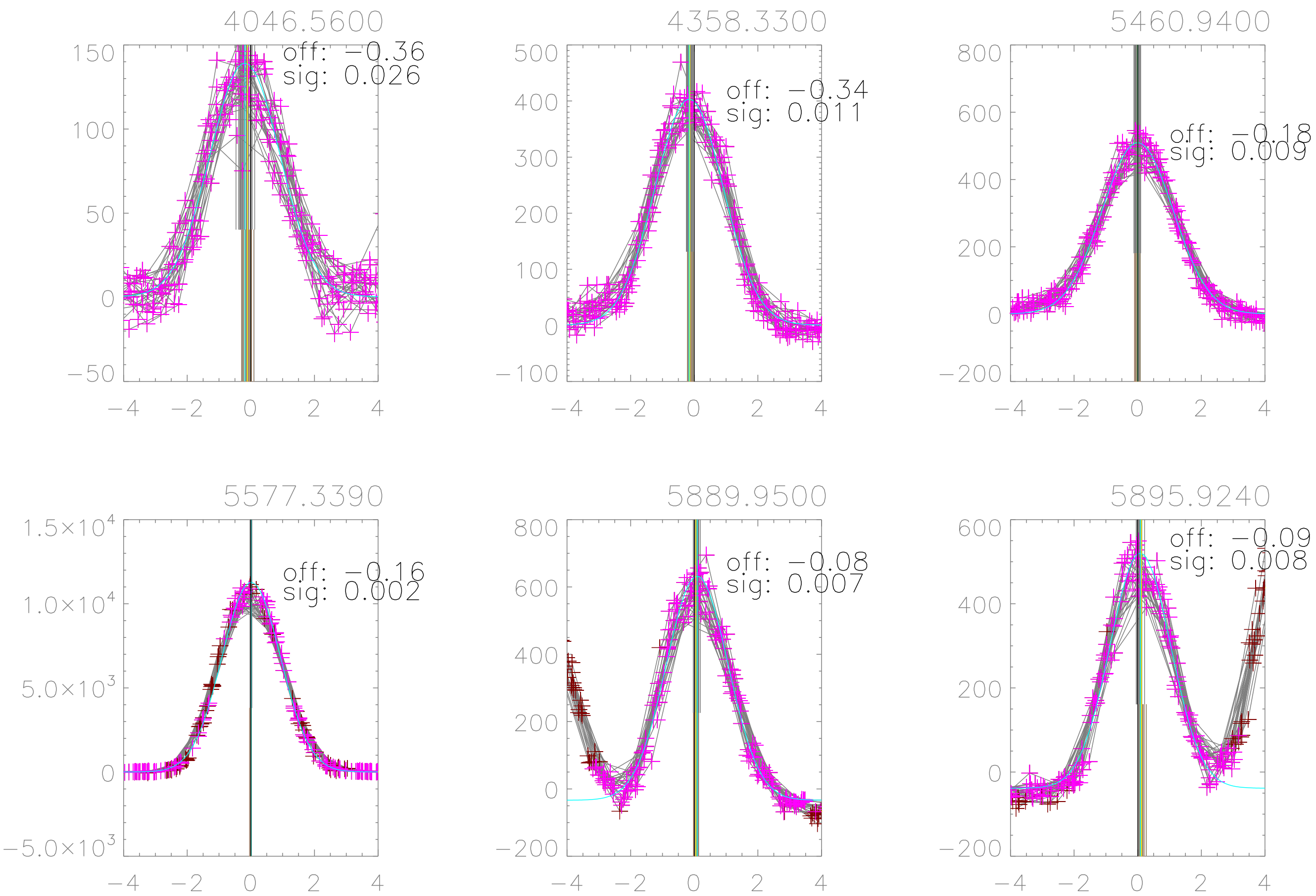

PLATE=2185 MJD=53527 Scattered Light on sdR-b2-00032994.fit
Y [pix]
0
500
1000
1500
2000
X [pix]
0
500
1000
1500
2000
7.09
5.64
5.64
4.18
5.64
4.18
5.64
7.09
5.64

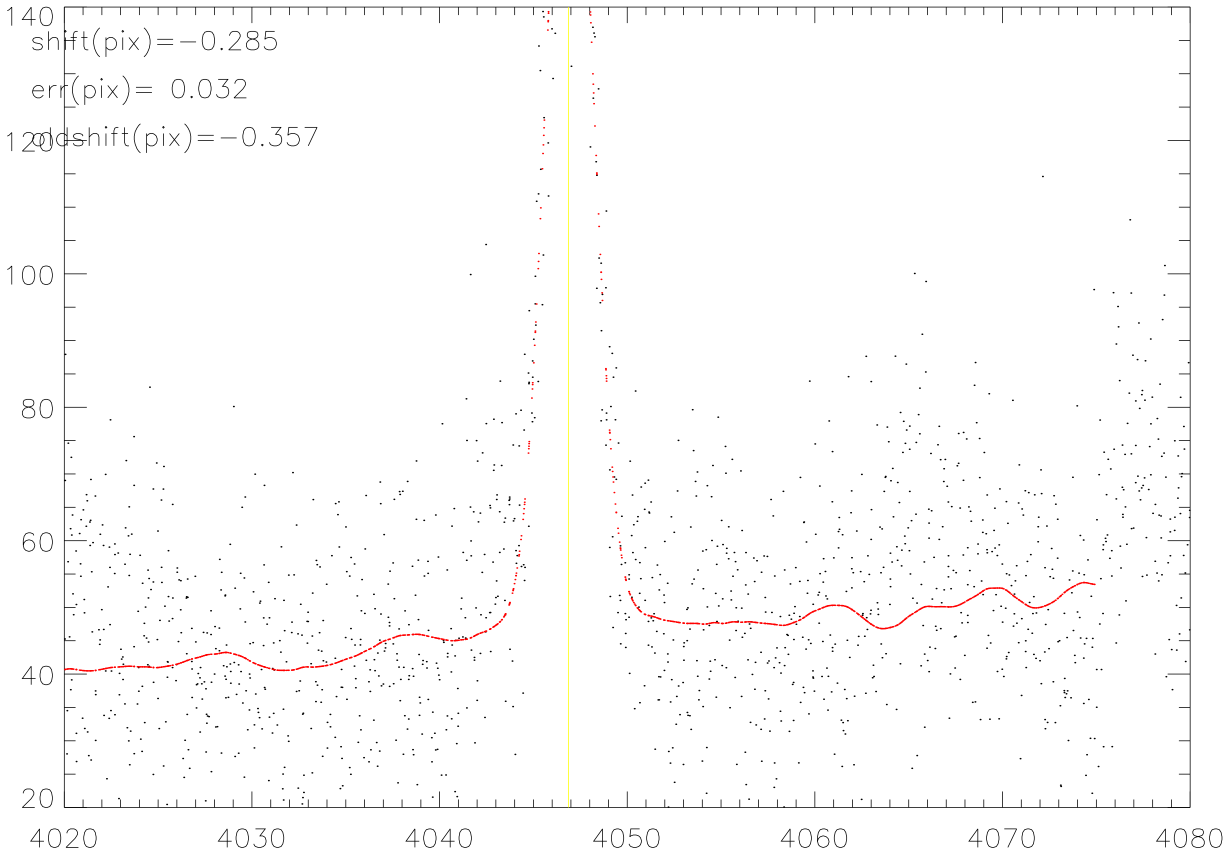


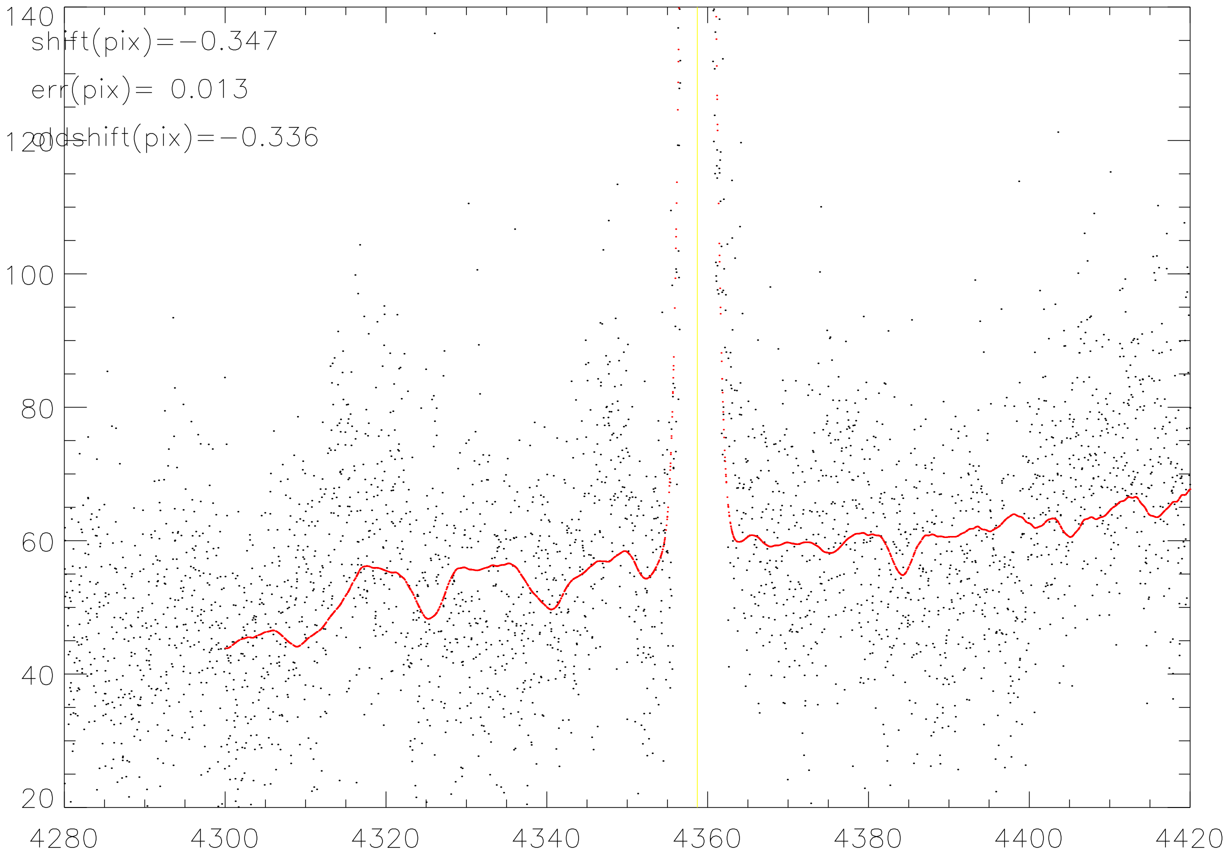
PLATE=2185 MJD=53527 Scattered Light on sdR-b2-00032994.fit

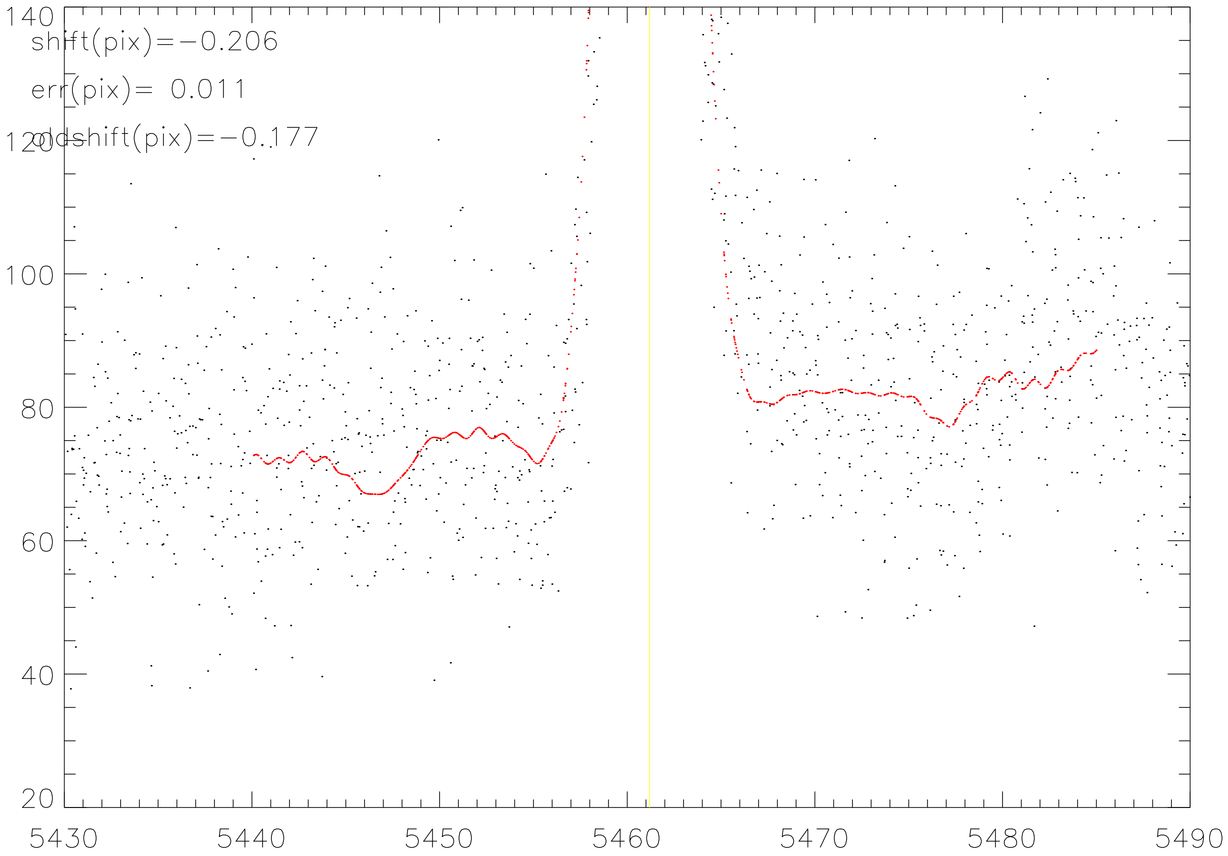
Mon Feb 11 01:26:05 2008

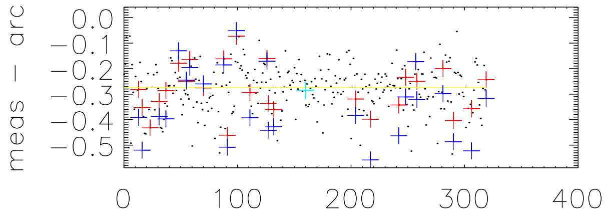

PLATE=2185 MJD=53527 Extraction chi^2 for sdR-b2-00032994.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
6
0
500
1000
1500
2000
Row number

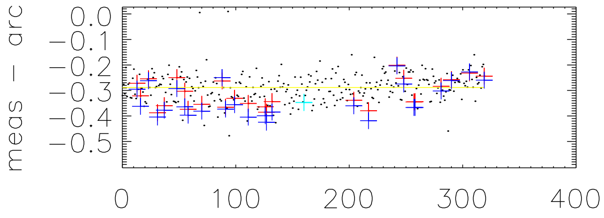

4046.5600
off: −0.36
sig: 0.026
150
100
50
0
−50
−4
−2
0
2
4
4358.3300
off: −0.34
sig: 0.011
500
400
300
200
100
0
−100
5460.9400
off: −0.18
sig: 0.009
800
600
400
200
0
−200
5577.3390
off: −0.16
sig: 0.002
1.5×10^4
1.0×10^4
5.0×10^3
0
-5.0×10^3
5889.9500
off: −0.08
sig: 0.007
800
600
400
200
0
−200
5895.9240
off: −0.09
sig: 0.008
600
400
200
0
−200

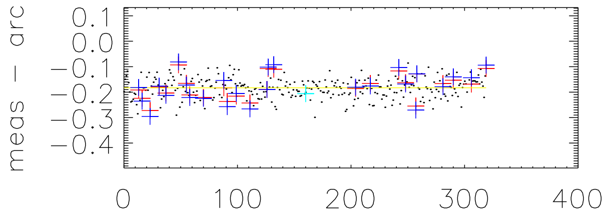

shift(pix)=−0.285
err(pix)= 0.032
oldshift(pix)=−0.357
140
120
100
80
60
40
20
4020
4030
4040
4050
4060
4070
4080

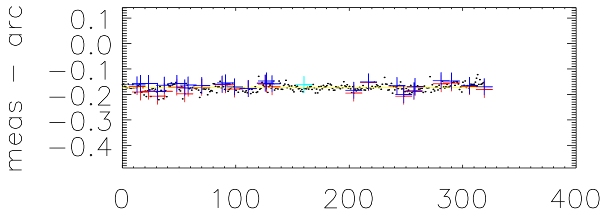

shift(pix)=−0.347
err(pix)= 0.013
oldshift(pix)=−0.336
140
120
100
80
60
40
20
4280
4300
4320
4340
4360
4380
4400
4420

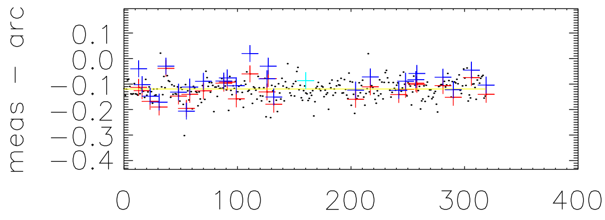

shift(pix)=-0.206
err(pix)= 0.011
oldshift(pix)=-0.177
140
120
100
80
60
40
20
5430
5440
5450
5460
5470
5480
5490

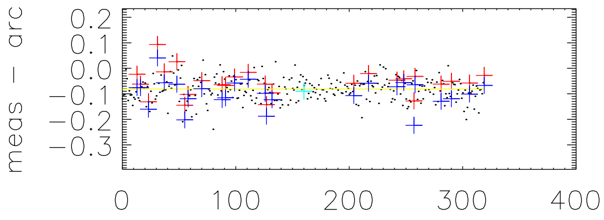

4046.5600

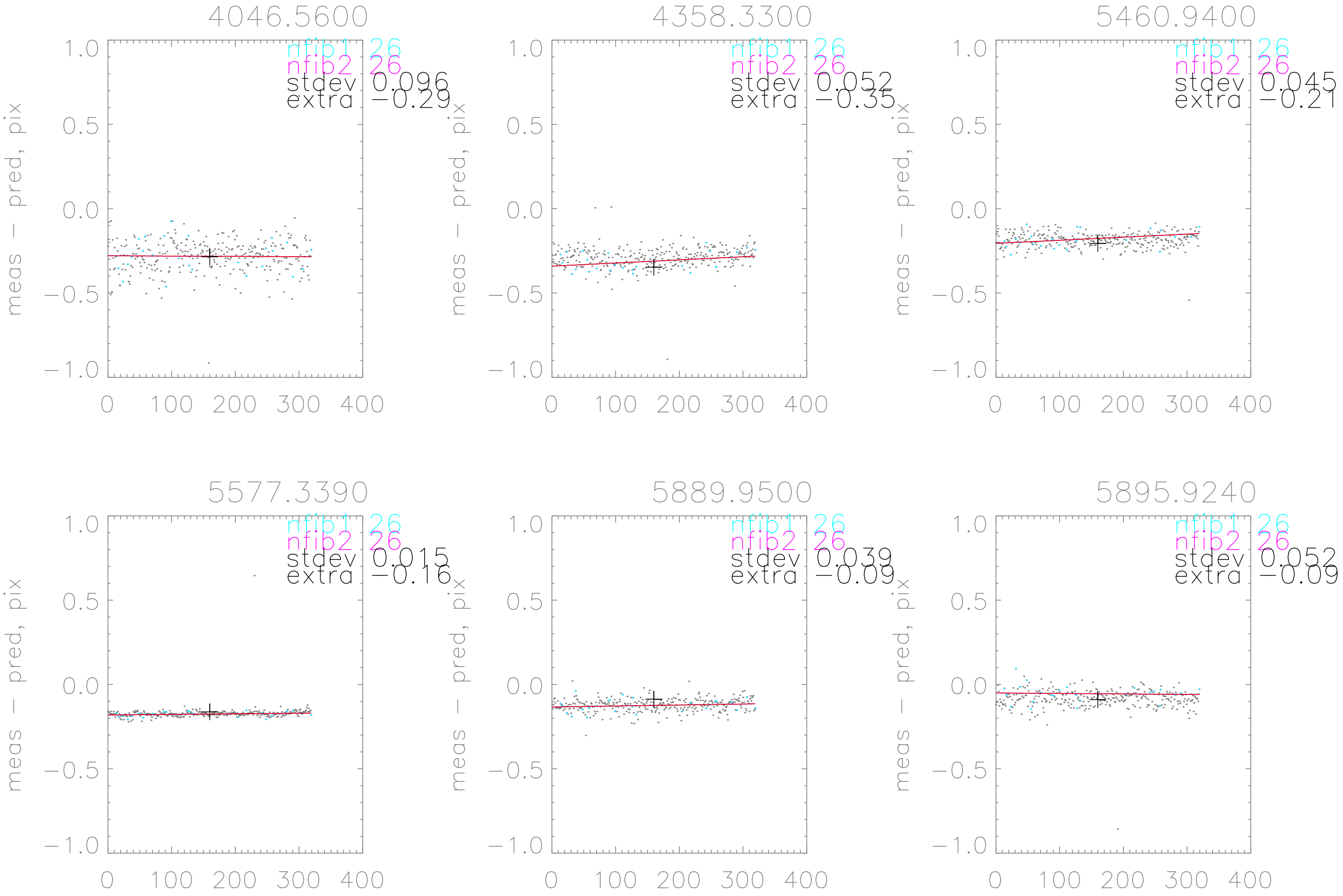

4358.3300

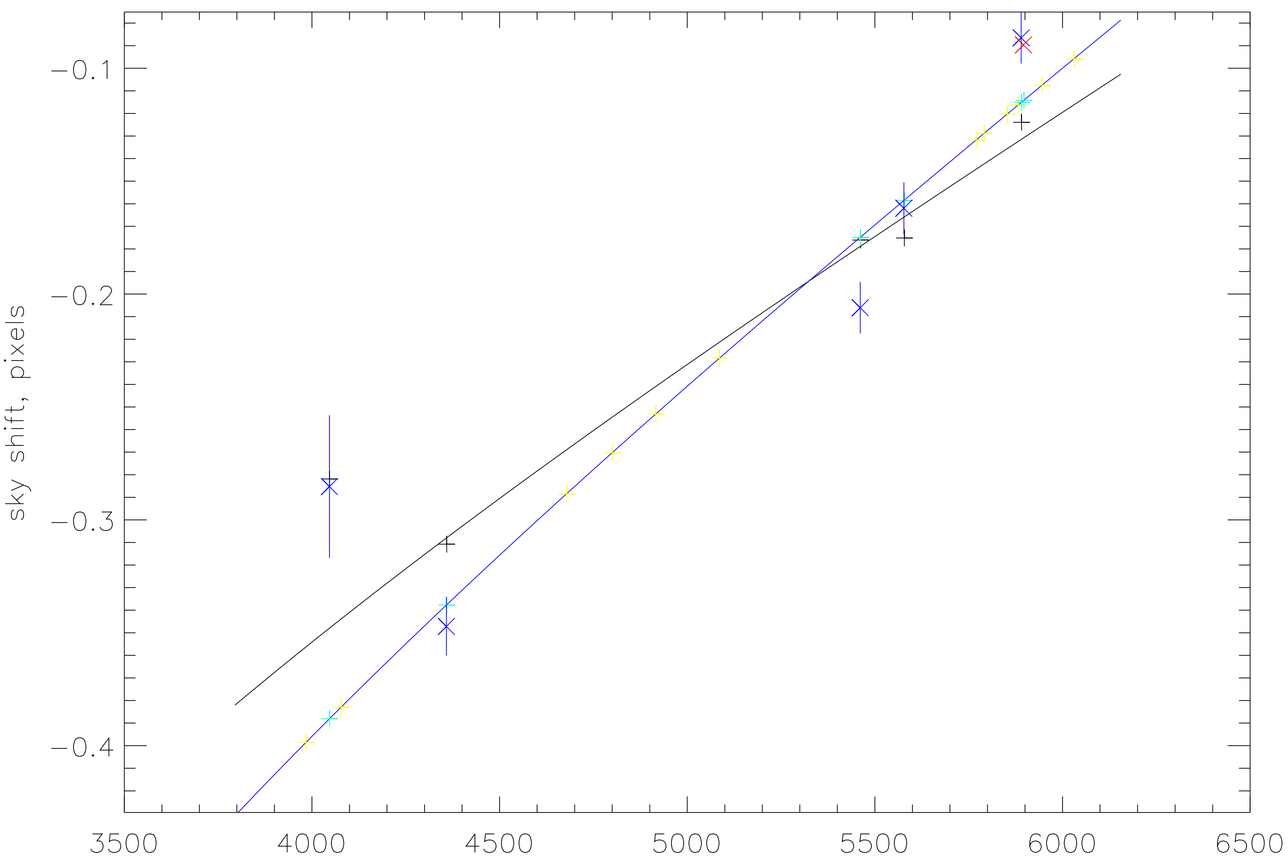

5460.9400


5577.3390

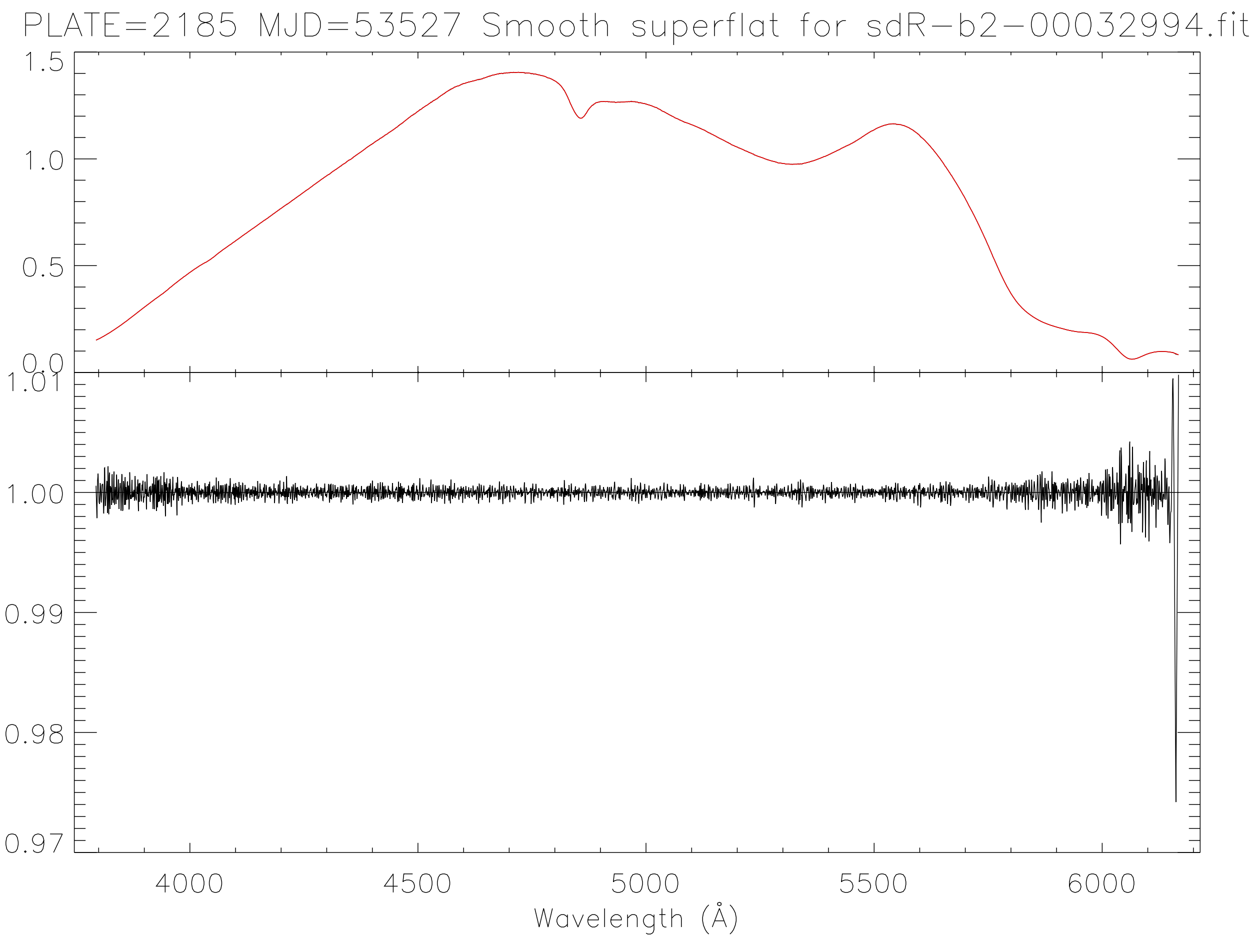

5889.9500

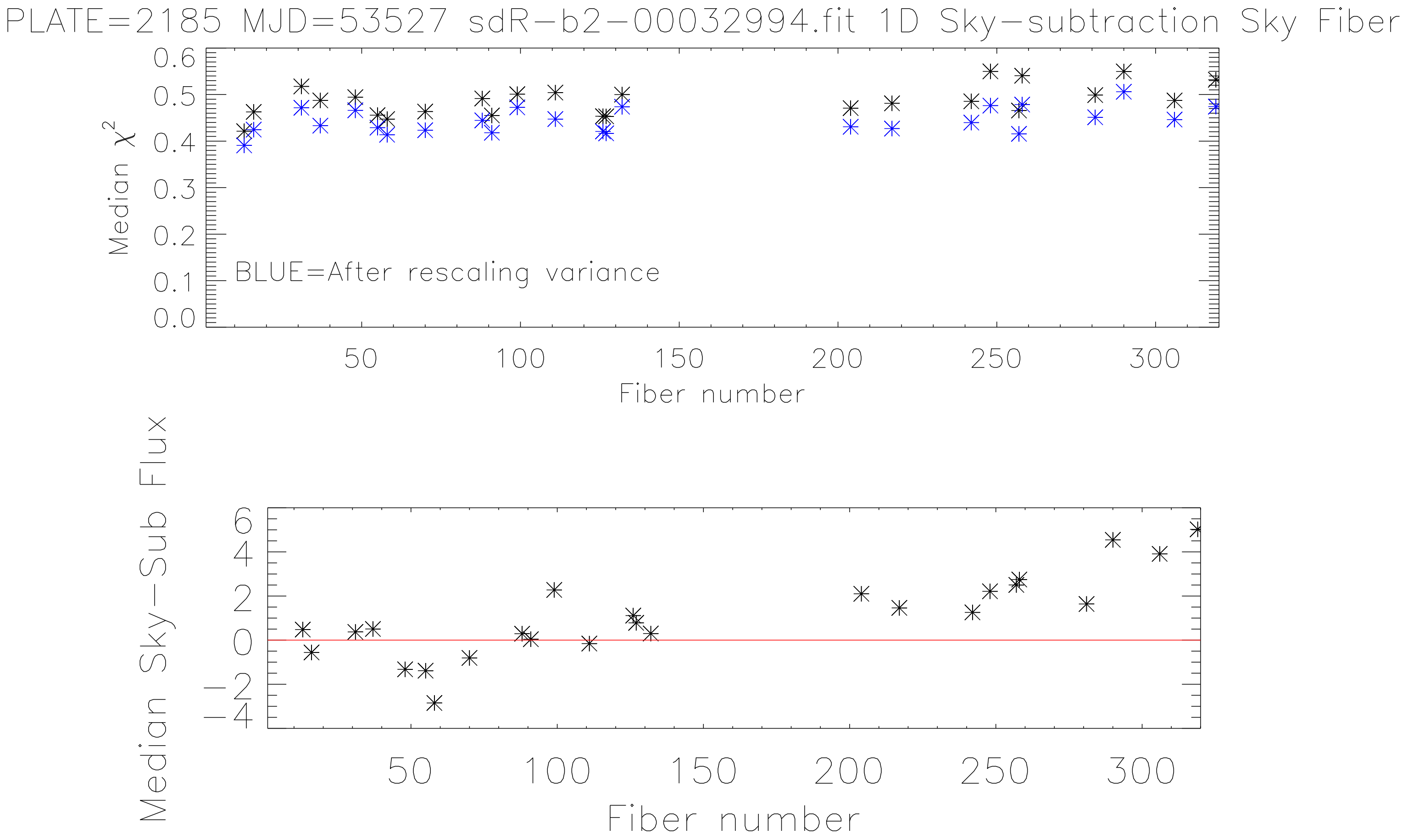

5895.9240

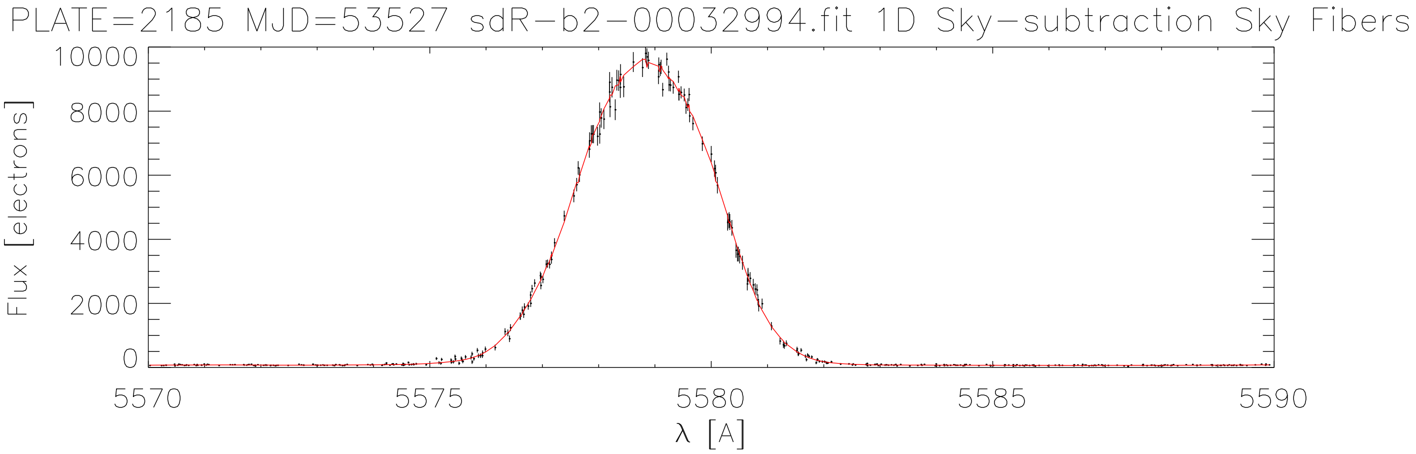

4046.5600
nfib1 26
nfib2 26
stdev 0.096
extra −0.29
4358.3300
nfib1 26
nfib2 26
stdev 0.052
extra −0.35
5460.9400
nfib1 26
nfib2 26
stdev 0.045
extra −0.21
5577.3390
nfib1 26
nfib2 26
stdev 0.015
extra −0.16
5889.9500
nfib1 26
nfib2 26
stdev 0.039
extra −0.09
5895.9240
nfib1 26
nfib2 26
stdev 0.052
extra −0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

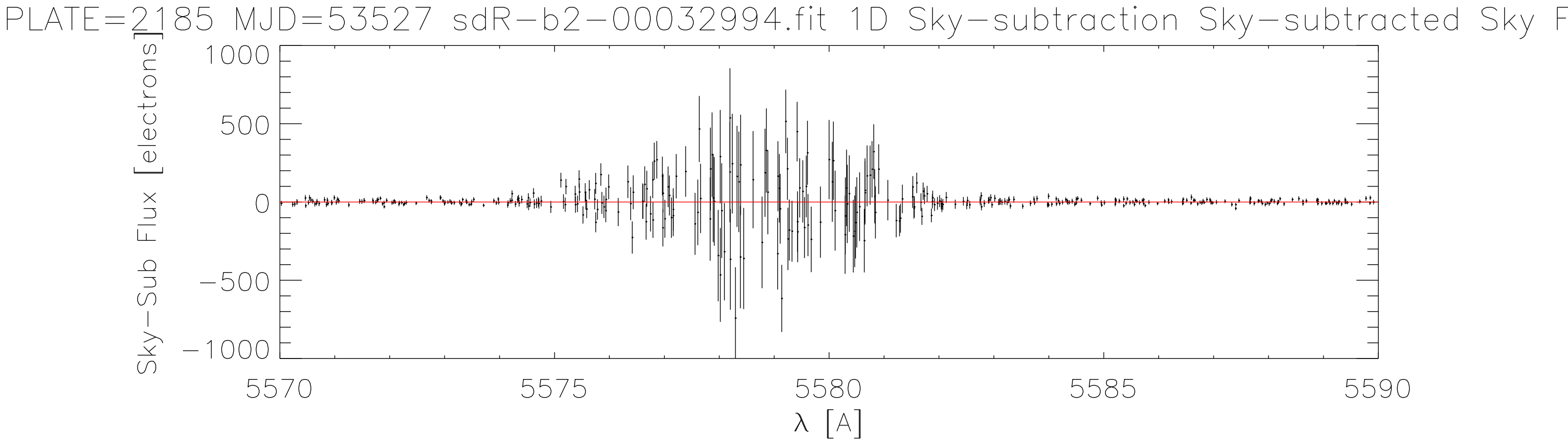

sky shift, pixels
−0.1
−0.2
−0.3
−0.4
3500
4000
4500
5000
5500
6000
6500

es= −0.0000


PLATE=2185 MJD=53527 Smooth superflat for sdR-b2-00032994.fit
1.5
1.0
0.5
0.0
1.01
1.00
0.99
0.98
0.97
4000
4500
5000
5500
6000
Wavelength (Å)

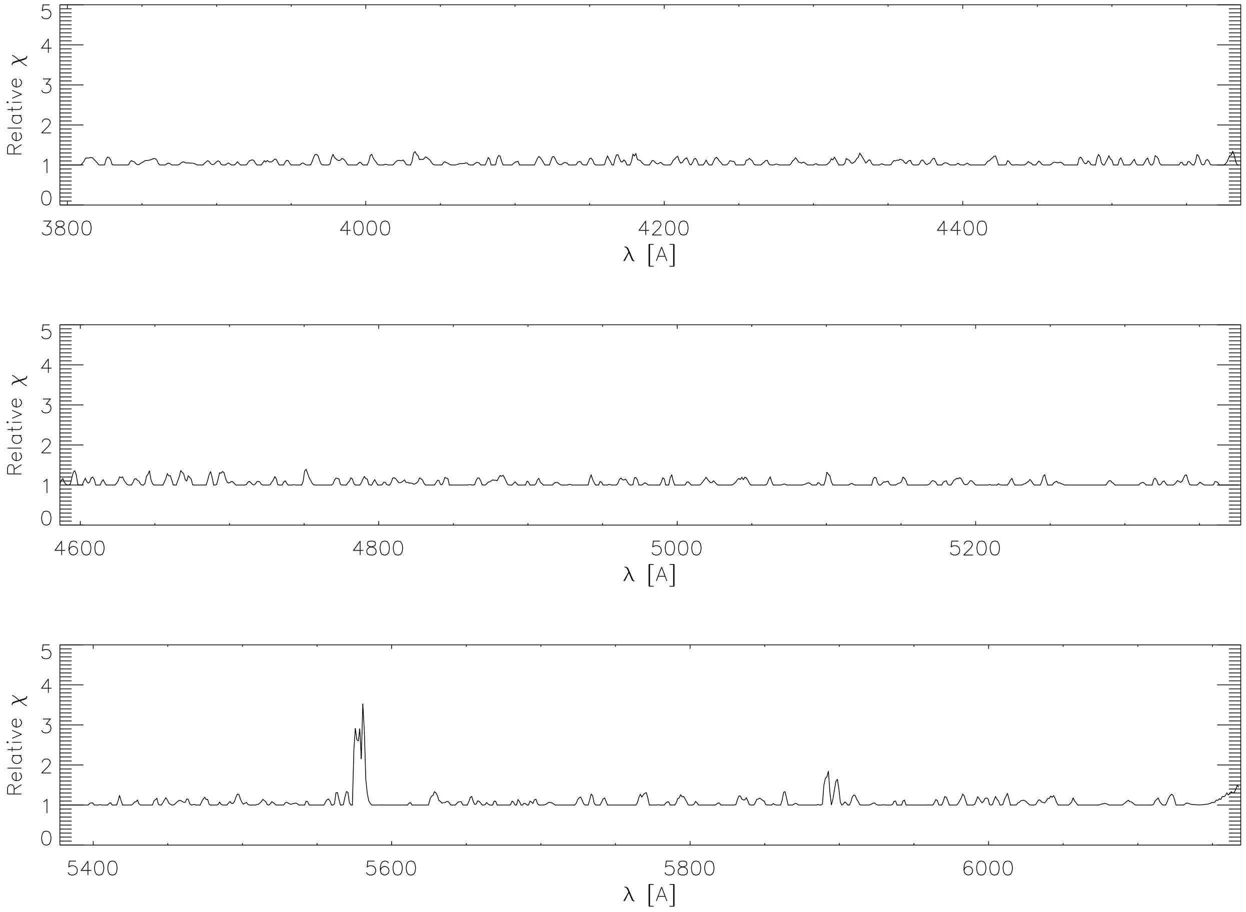

PLATE=2185 MJD=53527 sdR-b2-00032994.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−4
−2
0
2
4
6
50
100
150
200
250
300
Fiber number

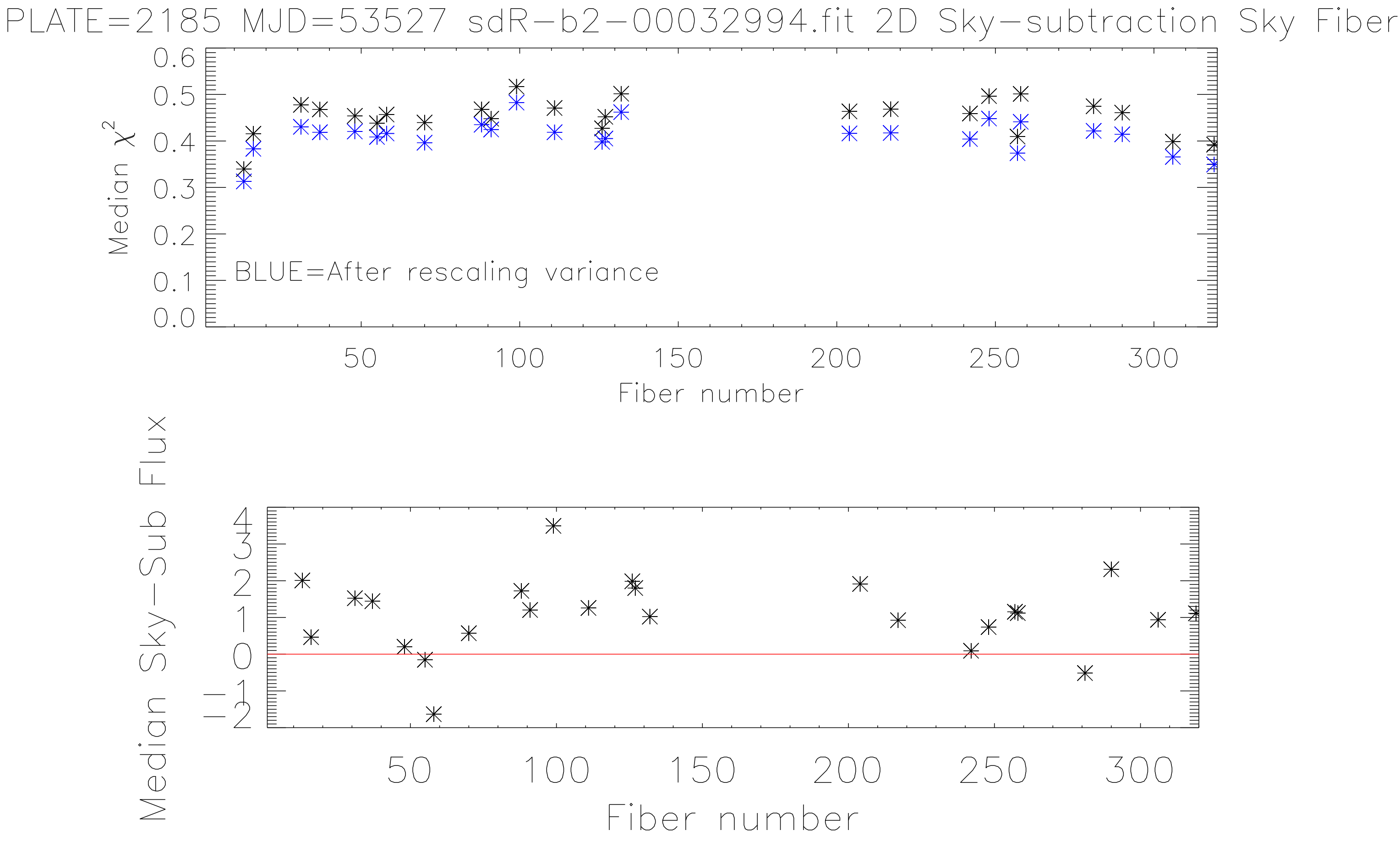

PLATE=2185 MJD=53527 sdR-b2-00032994.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
10000
8000
6000
4000
2000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=2185 MJD=53527 sdR-b2-00032994.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
1000
500
0
−500
−1000
5570
5575
5580
5585
5590
λ [A]

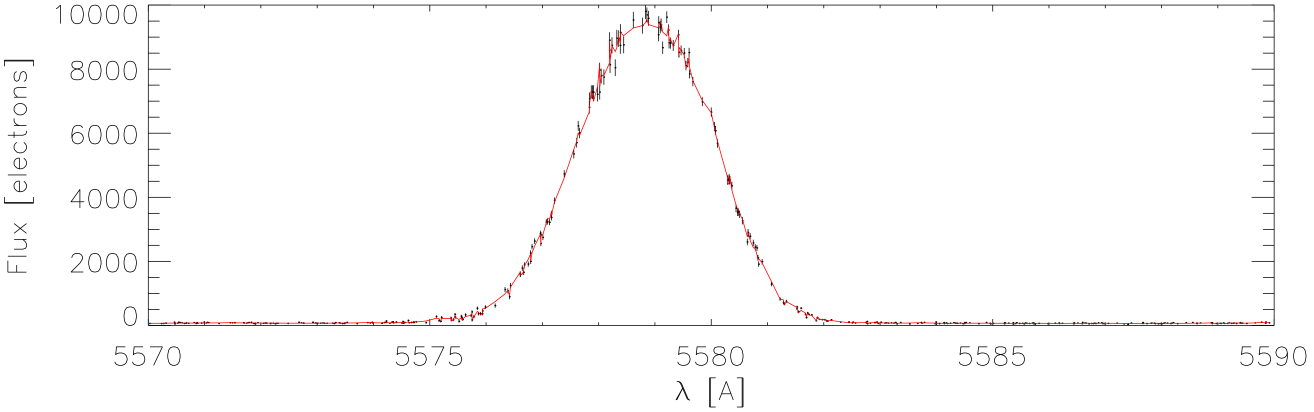
Number of sky fibers = 25

PLATE=2185 MJD=53527 sdR-b2-00032994.fit 1D Sky-subtraction Rescaled Errors

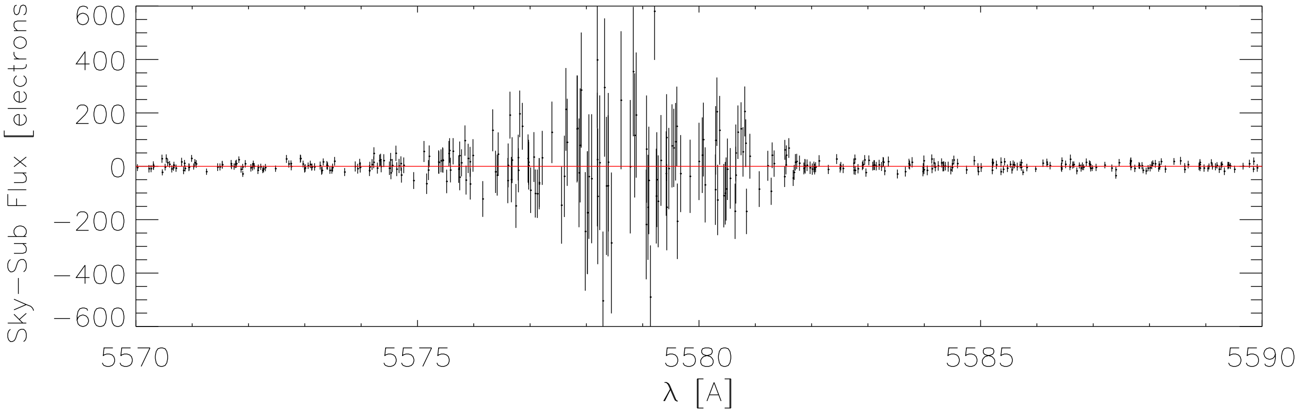



PLATE=2185 MJD=53527 sdR-b2-00032994.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.6
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
4
3
2
1
0
-1
-2
50
100
150
200
250
300
Fiber number

PLATE=2185 MJD=53527 sdR-b2-00032994.fit 2D Sky-subtraction Sky Fibers

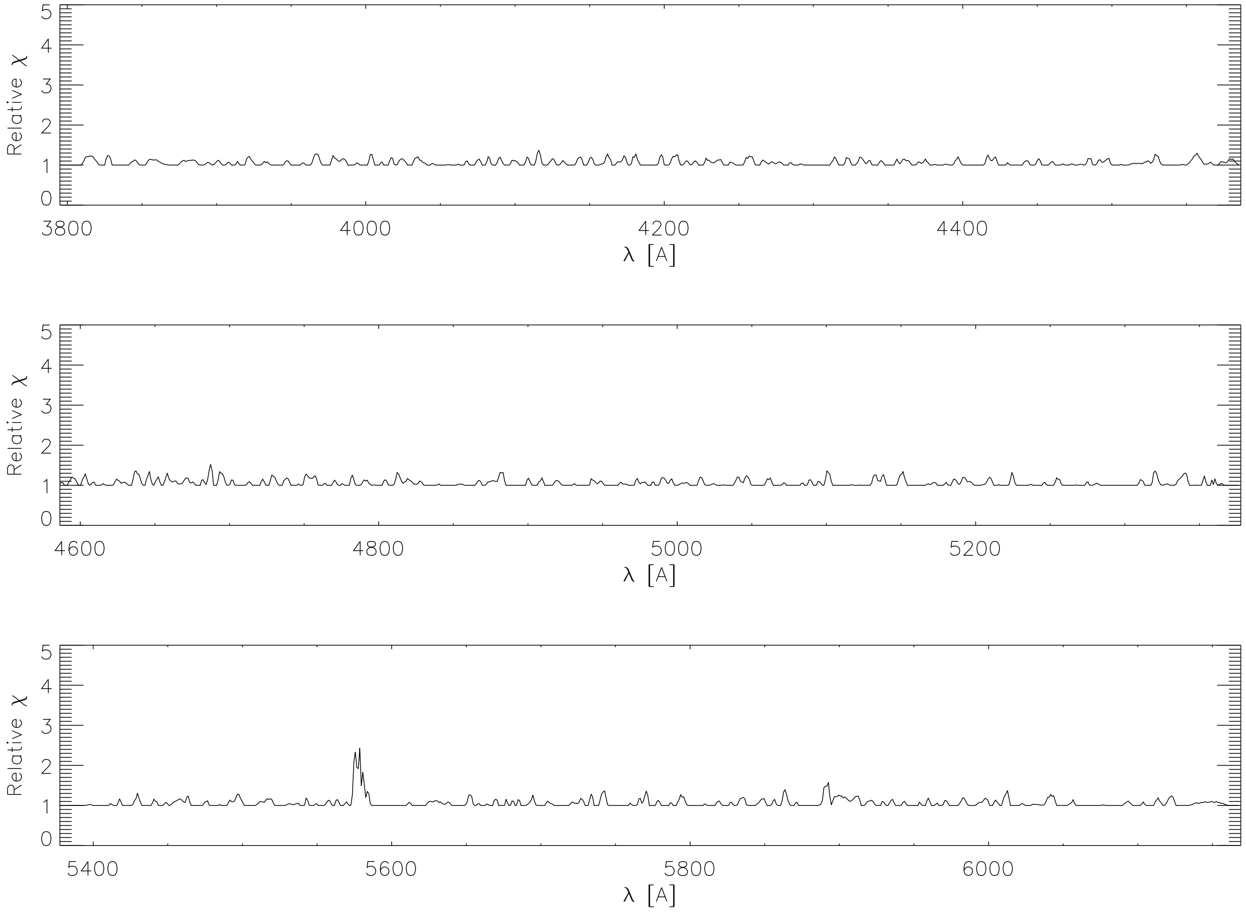


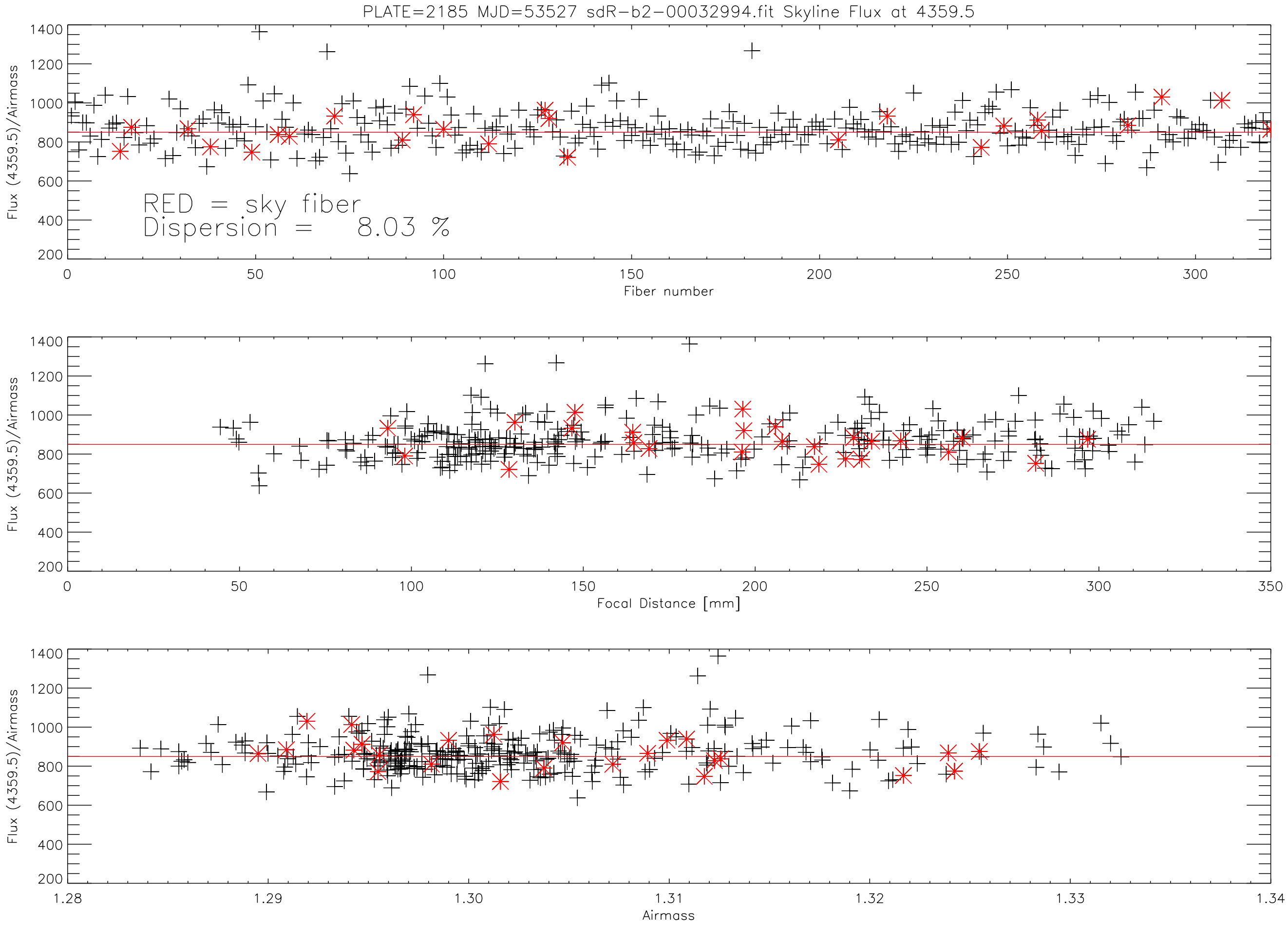
PLATE=2185 MJD=53527 sdR-b2-00032994.fit 2D Sky-subtraction Sky-subtracted Sky F

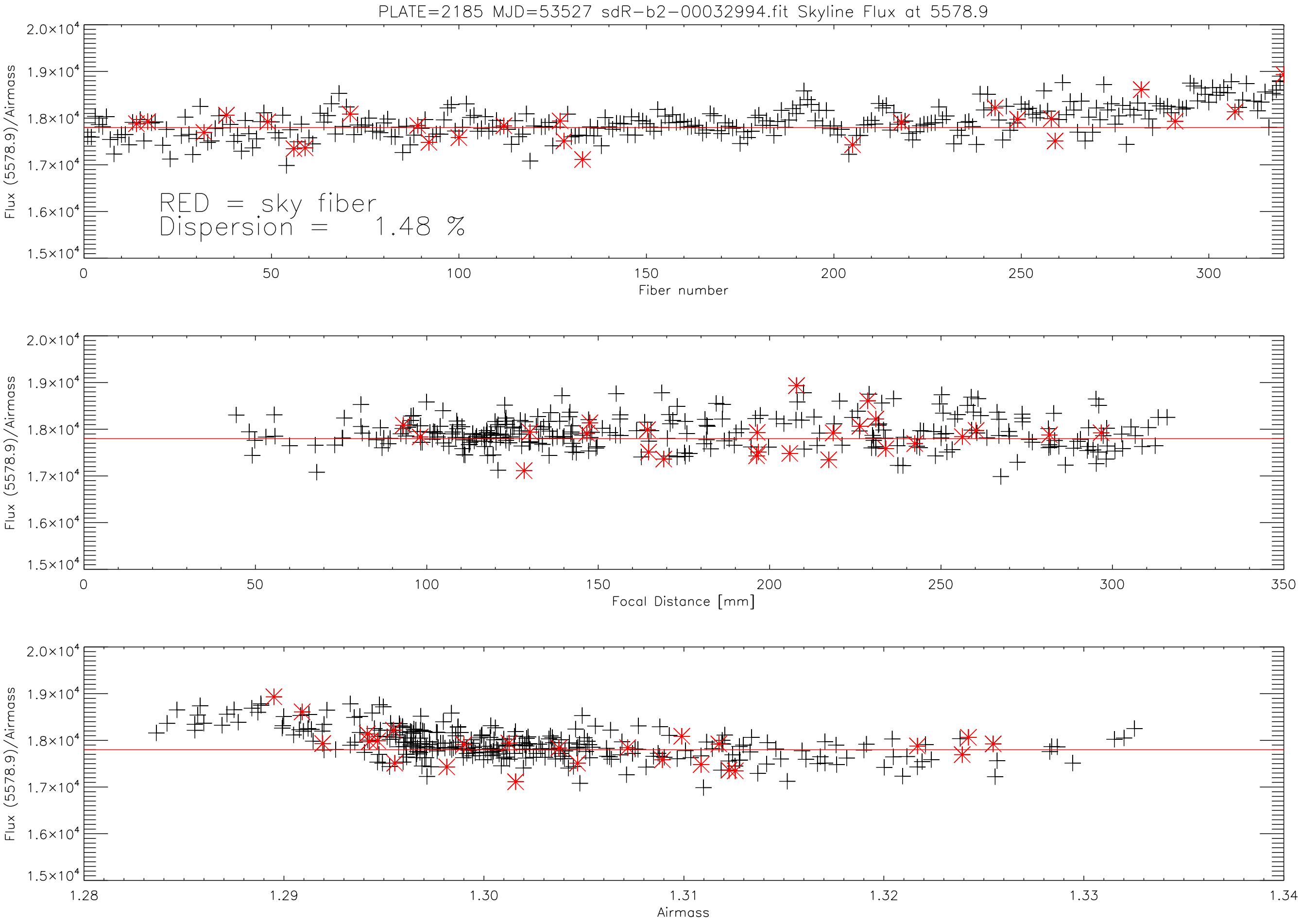


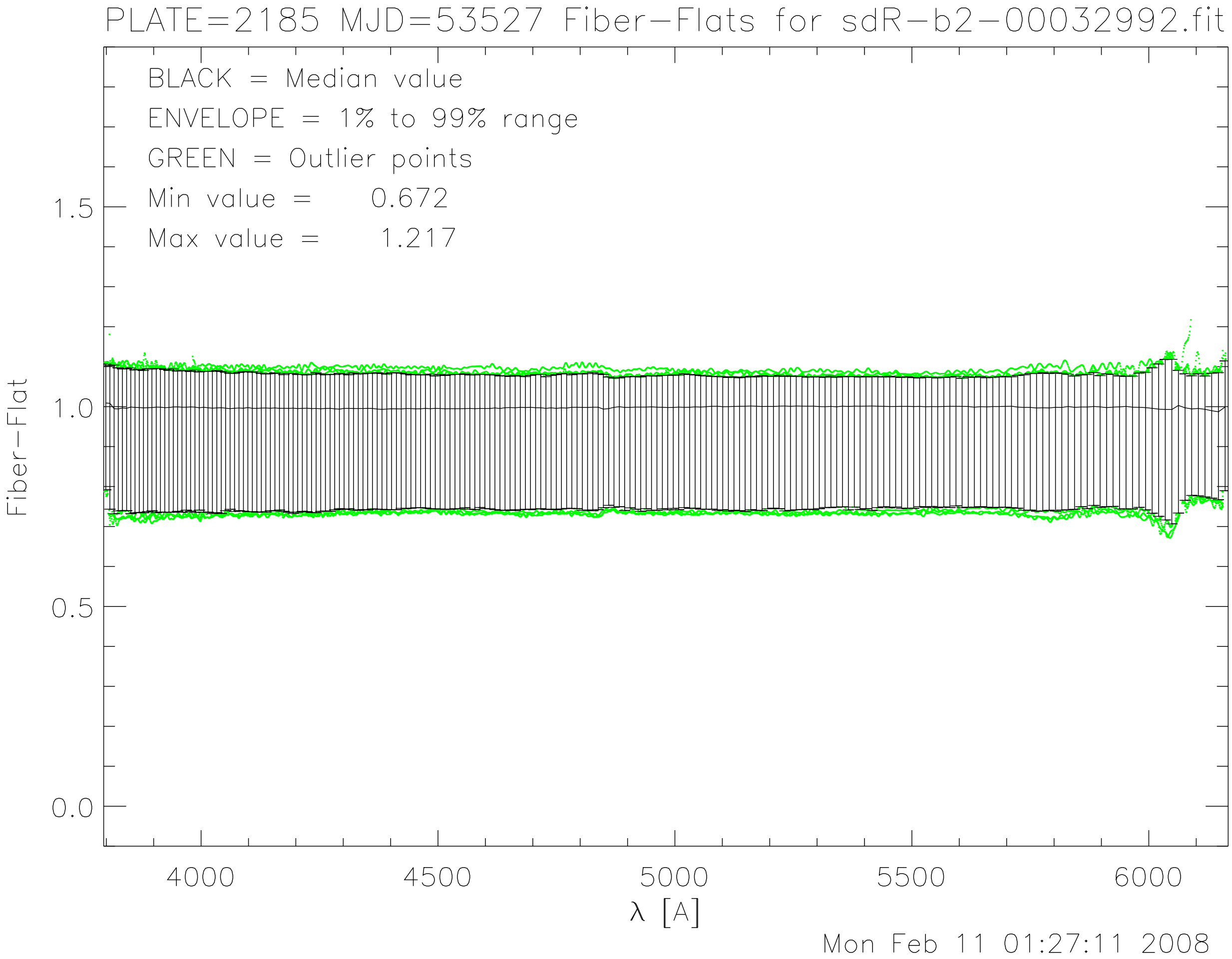
Number of sky fibers = 25

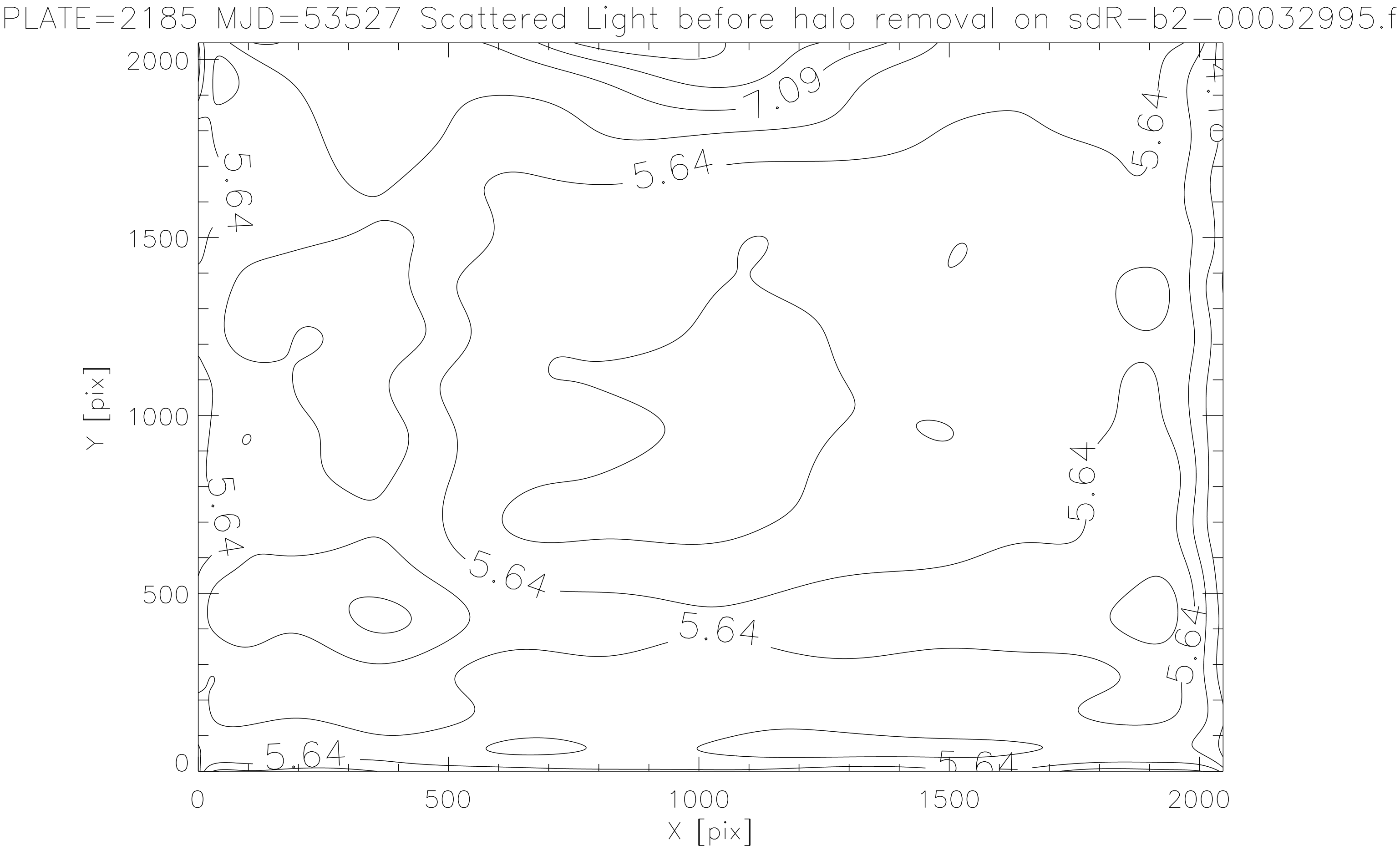
PLATE=2185 MJD=53527 sdR-b2-00032994.fit 2D Sky−subtraction Rescaled Errors



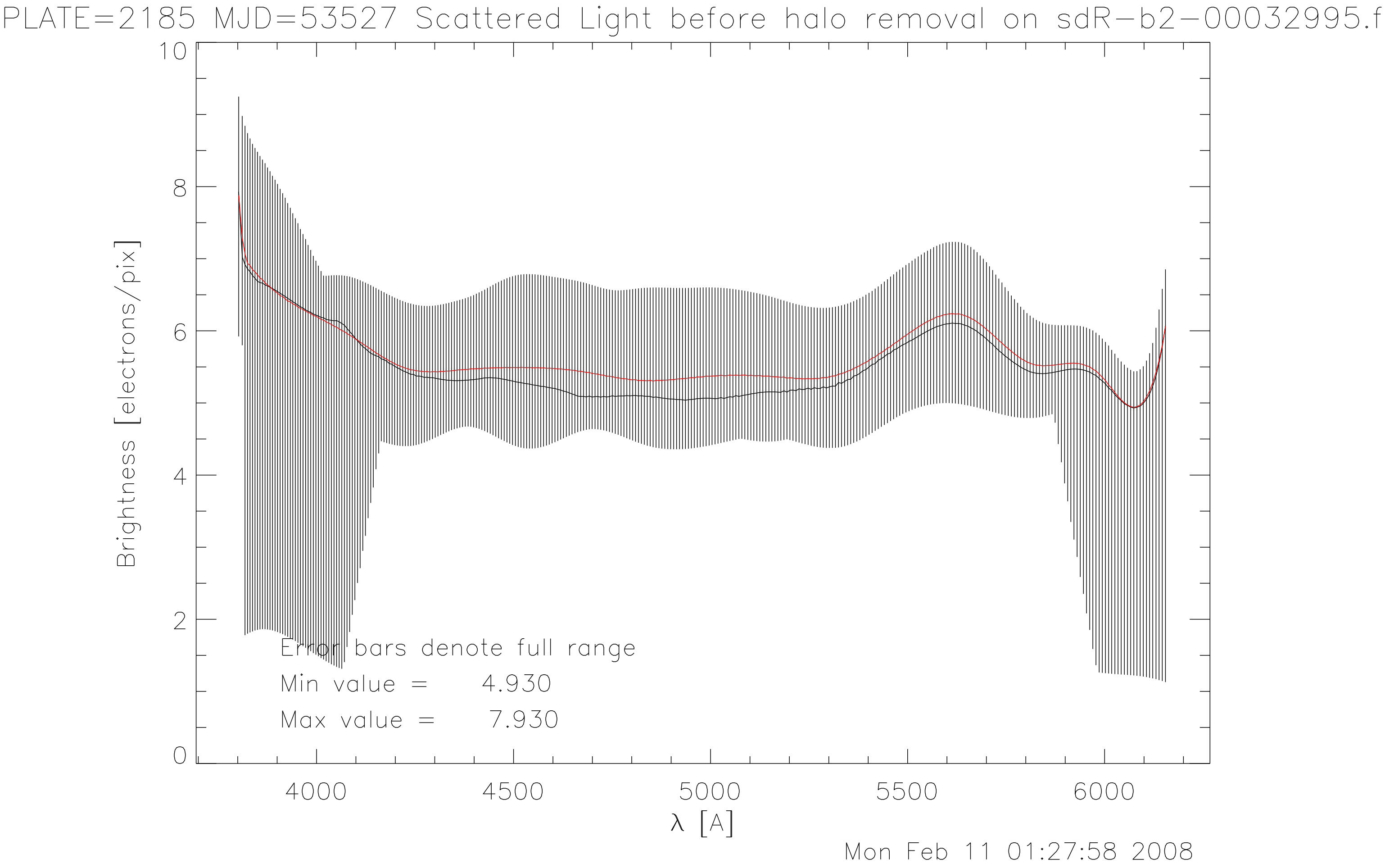

PLATE=2185 MJD=53527 sdR-b2-00032994.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
1400
1200
1000
800
600
400
200
RED = sky fiber
Dispersion = 8.03 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
1400
1200
1000
800
600
400
200
0
50
100
150
200
250
300
350
Focal Distance [mm]
Flux (4359.5)/Airmass
1400
1200
1000
800
600
400
200
1.28
1.29
1.30
1.31
1.32
1.33
1.34
Airmass

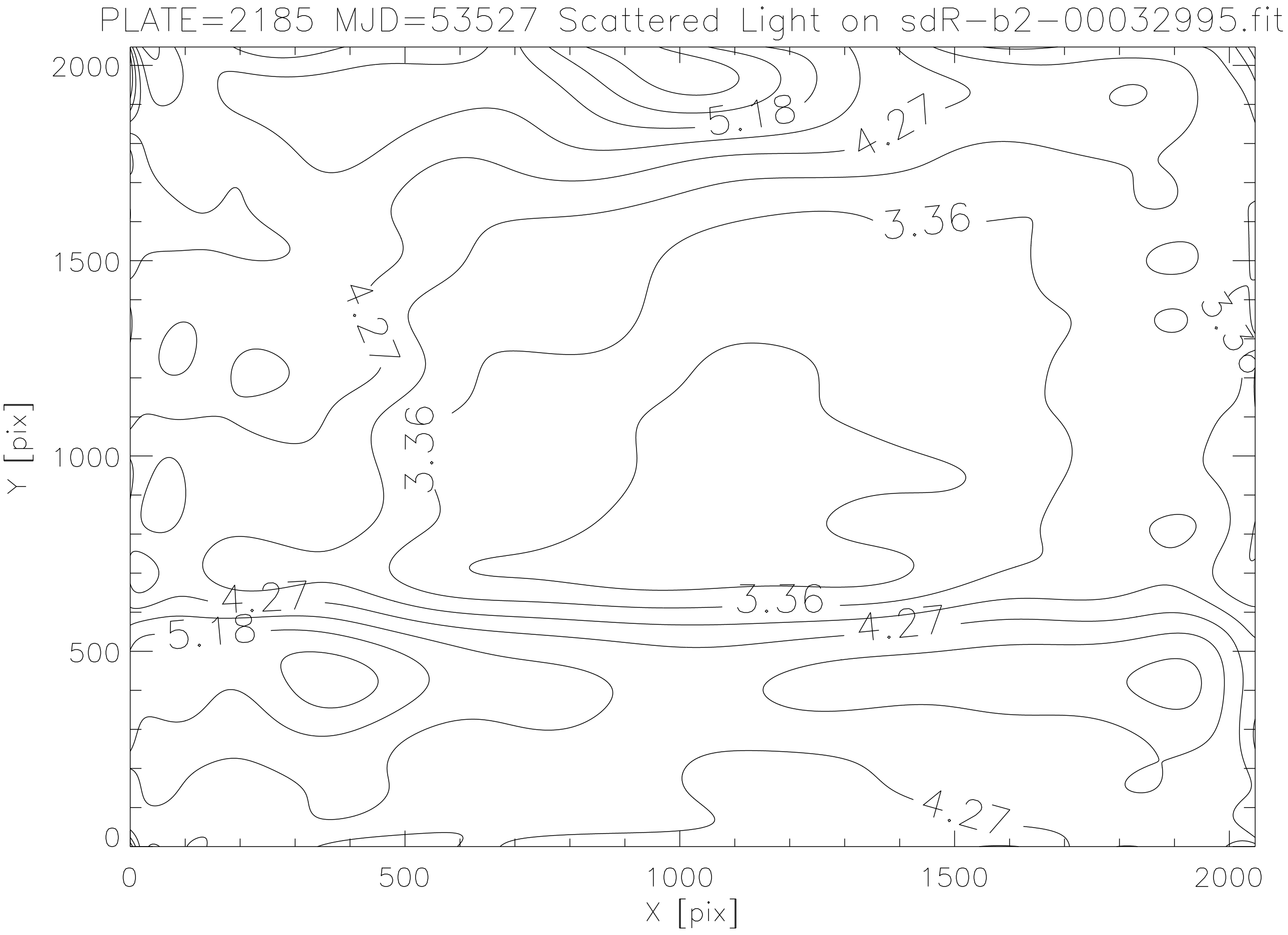

PLATE=2185 MJD=53527 sdR-b2-00032994.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
2.0×10^4
1.9×10^4
1.8×10^4
1.7×10^4
1.6×10^4
1.5×10^4
RED = sky fiber
Dispersion = 1.48 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
2.0×10^4
1.9×10^4
1.8×10^4
1.7×10^4
1.6×10^4
1.5×10^4
0
50
100
150
200
250
300
350
Focal Distance [mm]
Flux (5578.9)/Airmass
2.0×10^4
1.9×10^4
1.8×10^4
1.7×10^4
1.6×10^4
1.5×10^4
1.28
1.29
1.30
1.31
1.32
1.33
1.34
Airmass


PLATE=2185 MJD=53527 Fiber-Flats for sdR-b2-00032992.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.672
Max value = 1.217
Fiber-Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Feb 11 01:27:11 2008

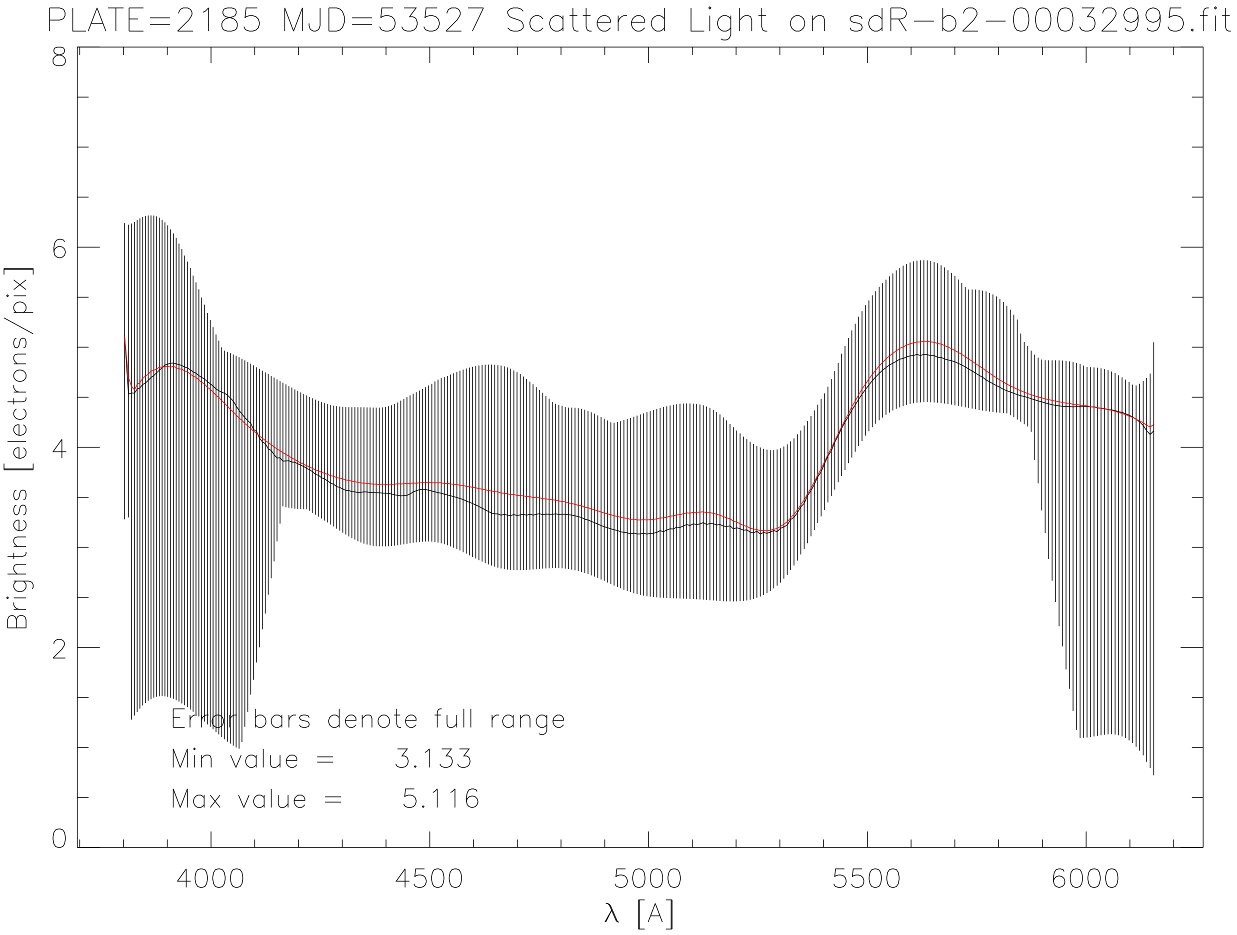


PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-b2-00032995.f

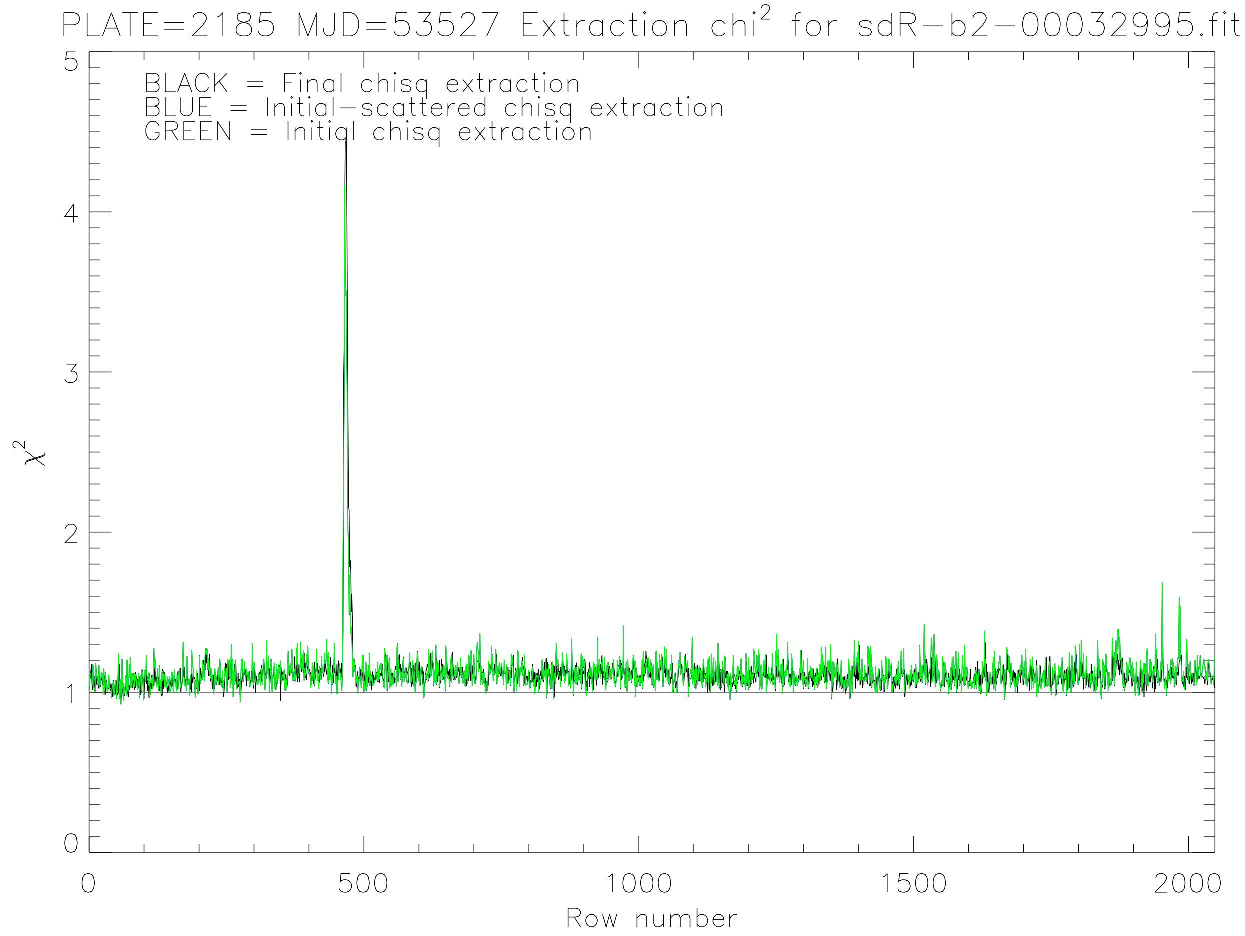

PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-b2-00032995.f
Brightness [electrons/pix]
0
2
4
6
8
10
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 4.930
Max value = 7.930
Mon Feb 11 01:27:58 2008

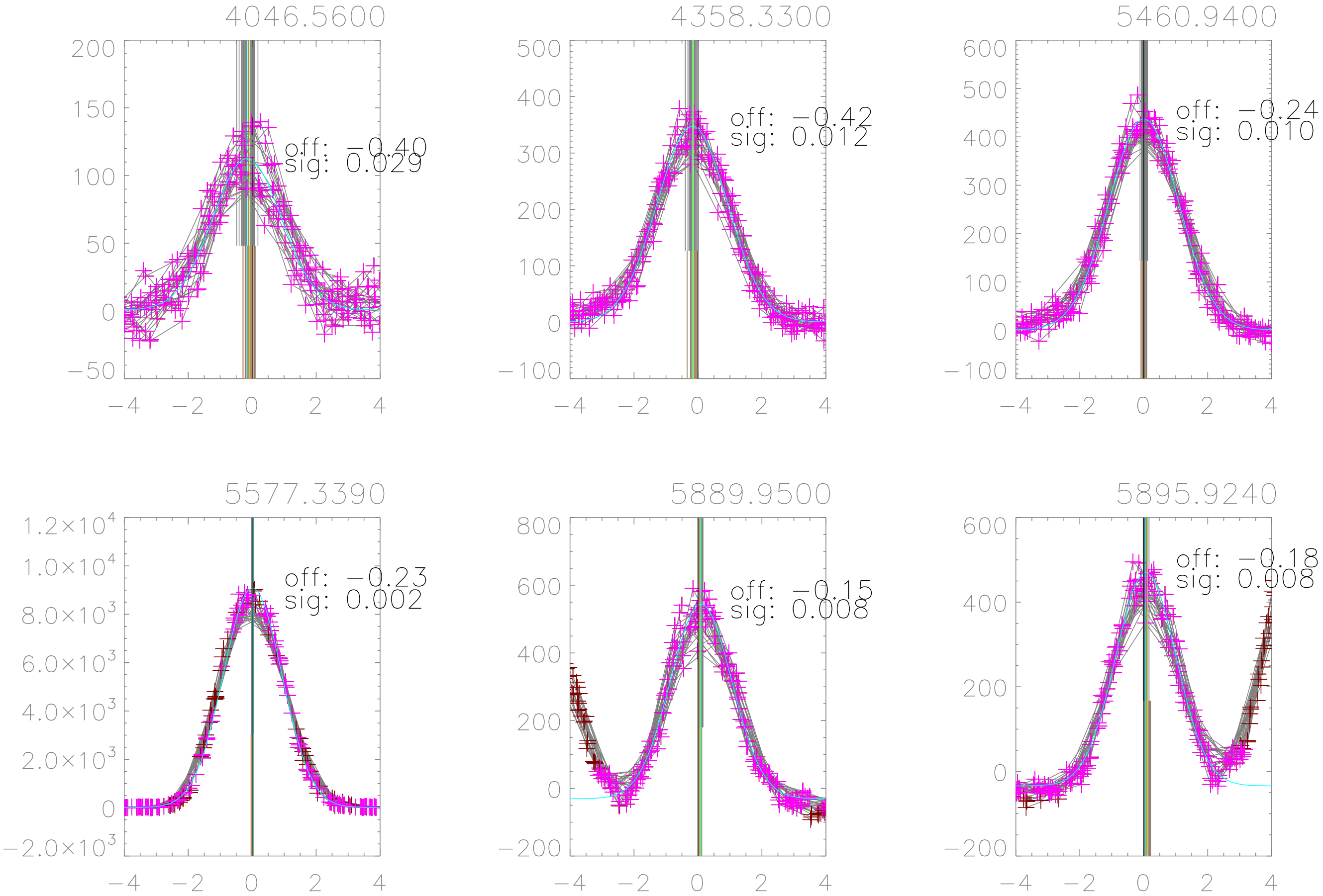


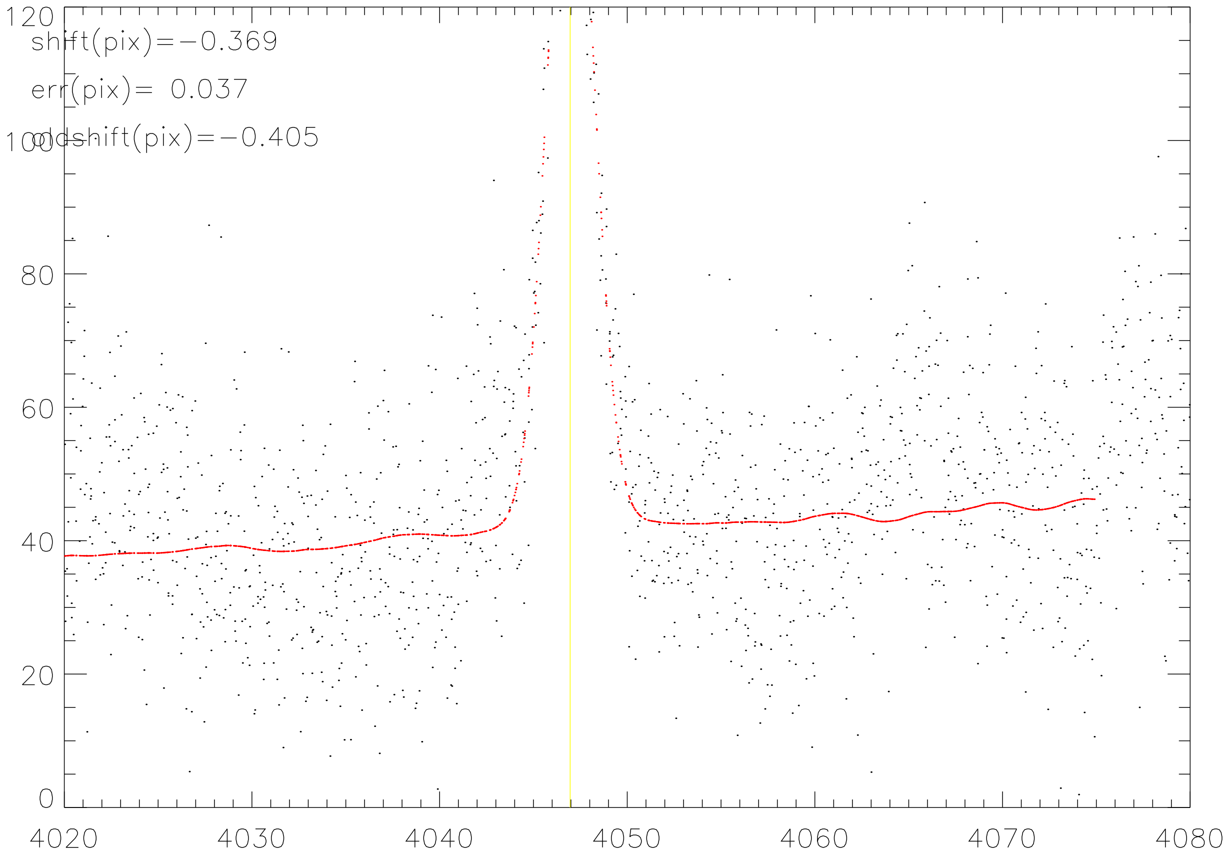
PLATE=2185 MJD=53527 Scattered Light on sdR-b2-00032995.fit

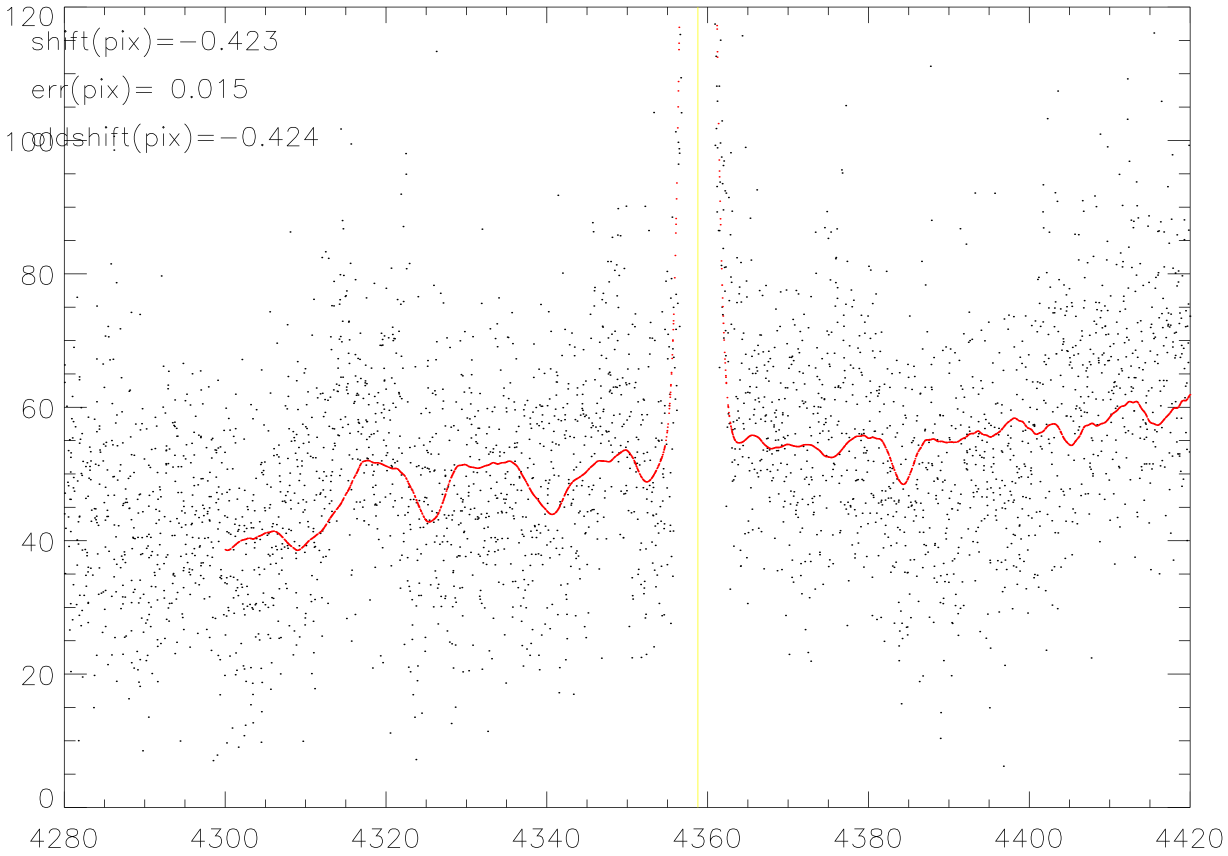


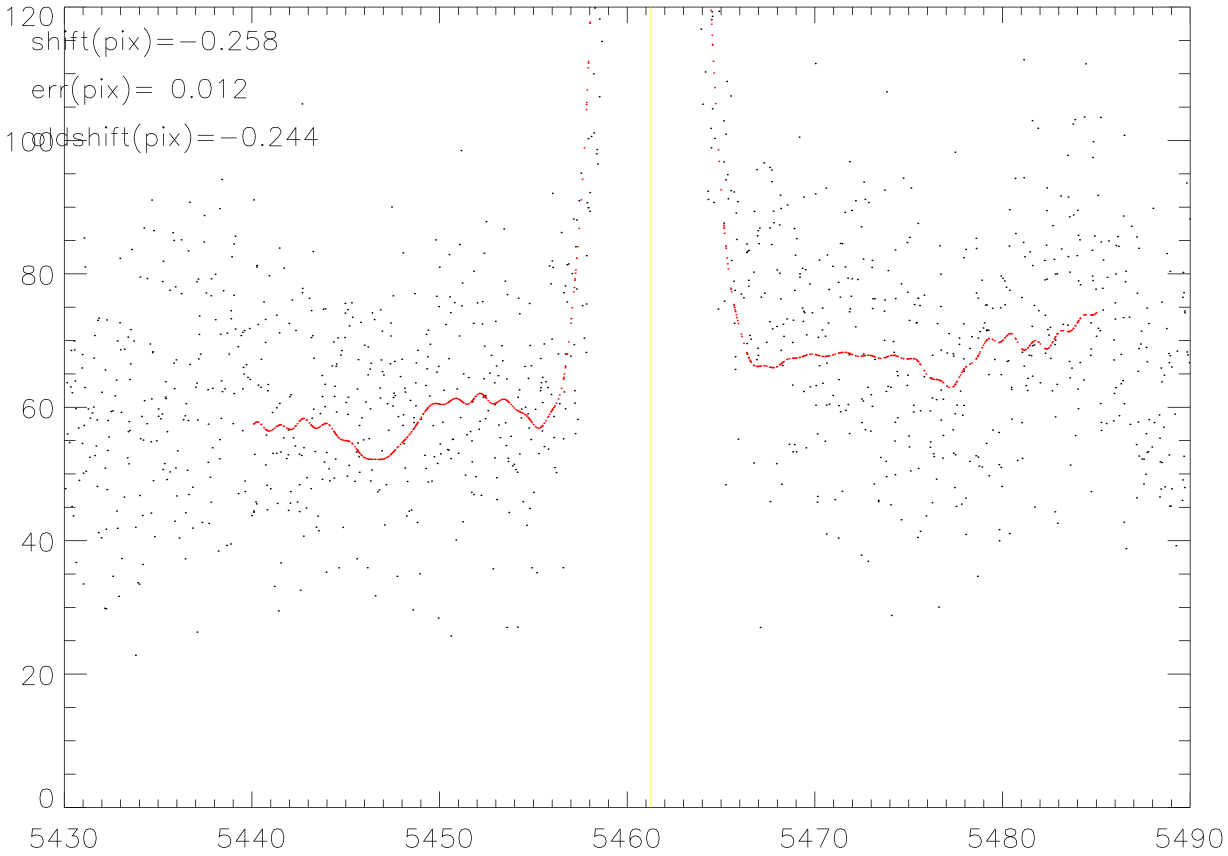
Mon Feb 11 01:30:54 2008


PLATE=2185 MJD=53527 Extraction chi^2 for sdR-b2-00032995.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

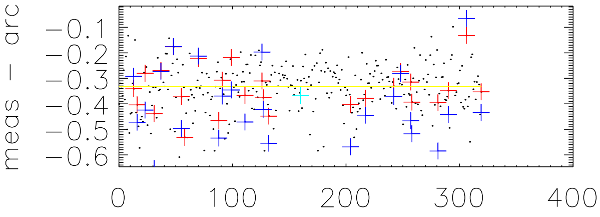

4046.5600
off: −0.40
sig: 0.029
4358.3300
off: −0.42
sig: 0.012
5460.9400
off: −0.24
sig: 0.010
5577.3390
off: −0.23
sig: 0.002
5889.9500
off: −0.15
sig: 0.008
5895.9240
off: −0.18
sig: 0.008
200
150
100
50
0
−50
500
400
300
200
100
0
−100
600
500
400
300
200
100
0
−100
1.2×10^4
1.0×10^4
8.0×10^3
6.0×10^3
4.0×10^3
2.0×10^3
0
−2.0×10^3
800
600
400
200
0
−200
600
400
200
0
−200
−4
−2
0
2
4


shift(pix)=−0.369
err(pix)= 0.037
oldshift(pix)=−0.405
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

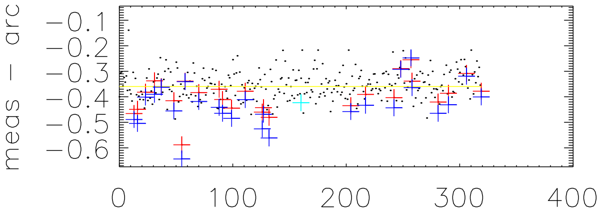

shift(pix)=-0.423
err(pix)= 0.015
oldshift(pix)=-0.424
0
20
40
60
80
100
120
4280
4300
4320
4340
4360
4380
4400
4420


shift(pix)=-0.258
err(pix)= 0.012
oldshift(pix)=-0.244
0
20
40
60
80
100
120
5430
5440
5450
5460
5470
5480
5490

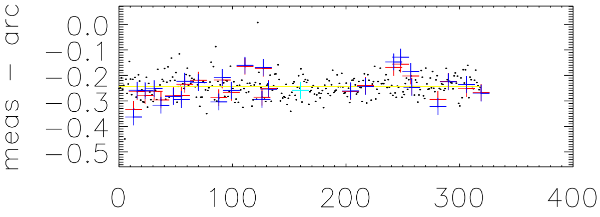
4046.5600



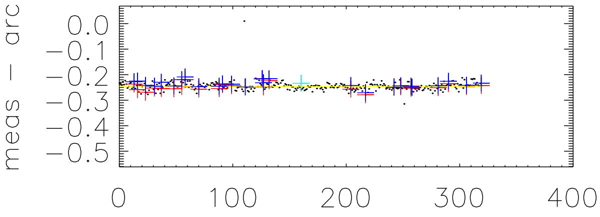
4358.3300



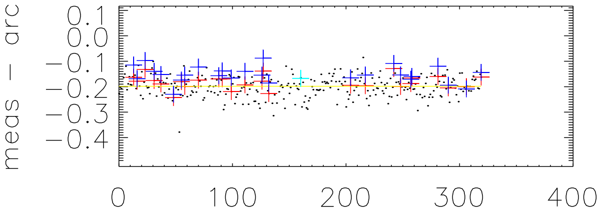
5460.9400



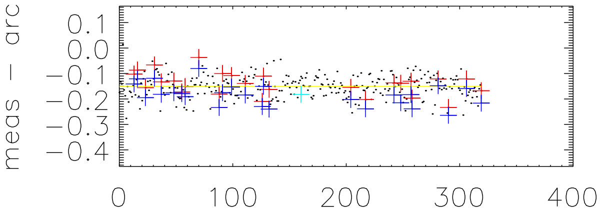
5577.3390

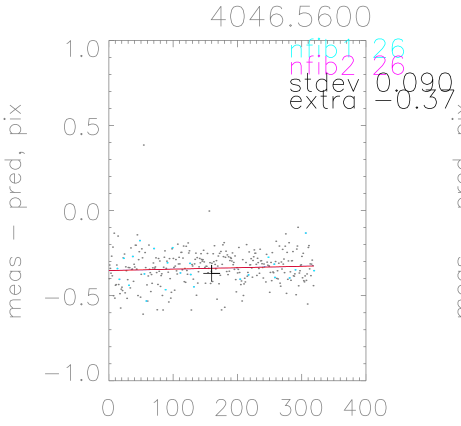


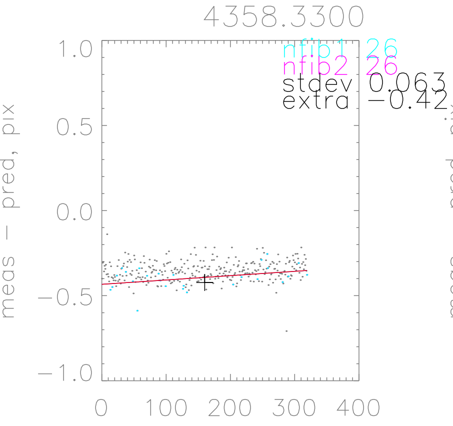
5889.9500

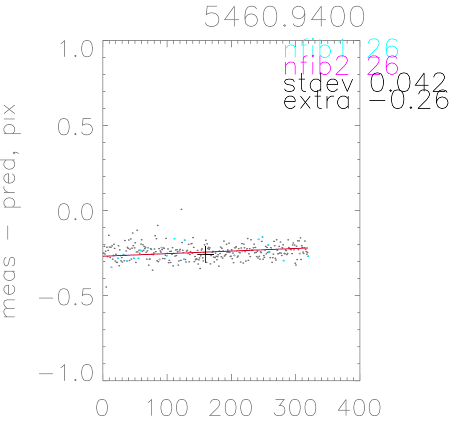


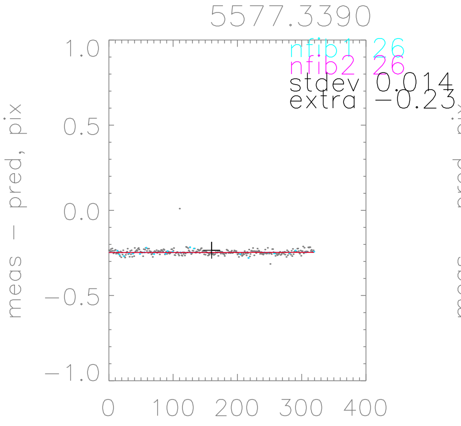
5895.9240

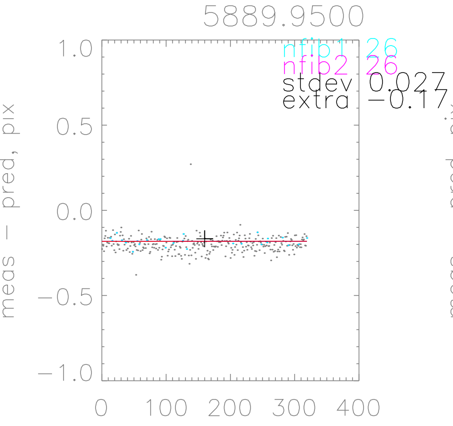


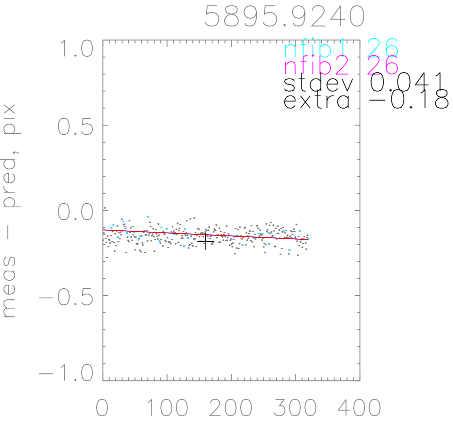

4046.5600
nfib1 26
nfib2 26
stdev 0.090
extra −0.37
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

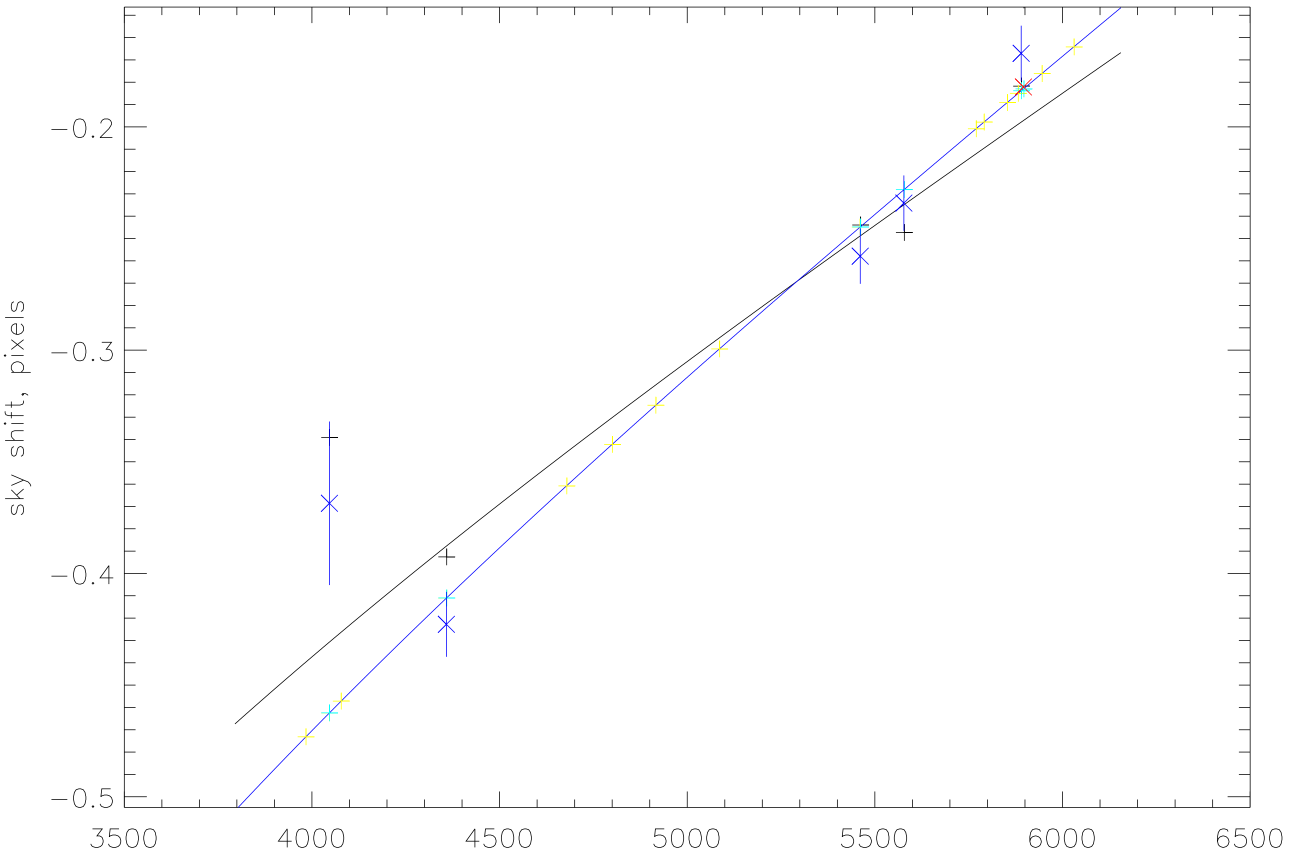

4358.3300
nfib1 26
nfib2 26
stdev 0.063
extra −0.42
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

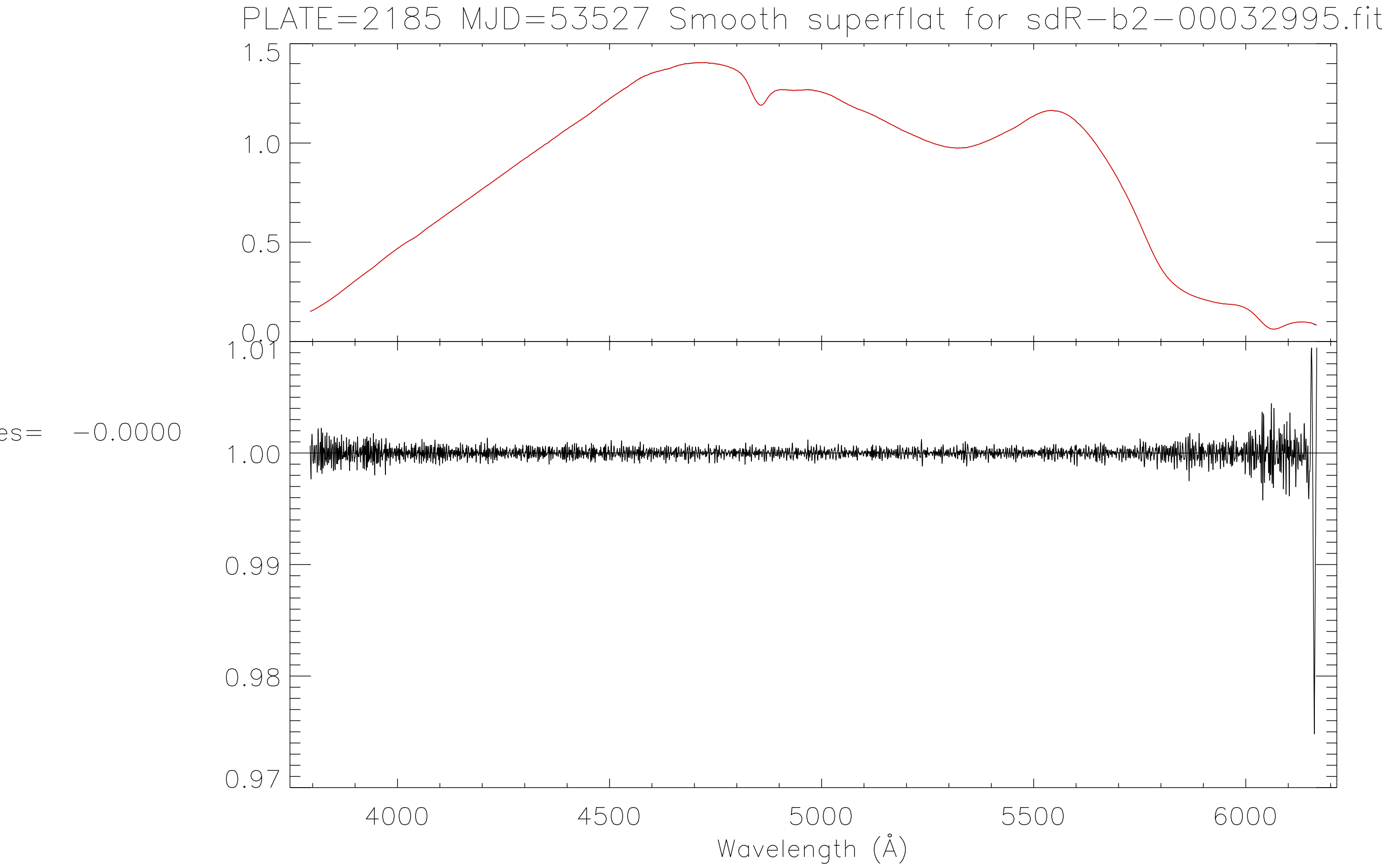

5460.9400
nfib1 26
nfib2 26
stdev 0.042
extra −0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

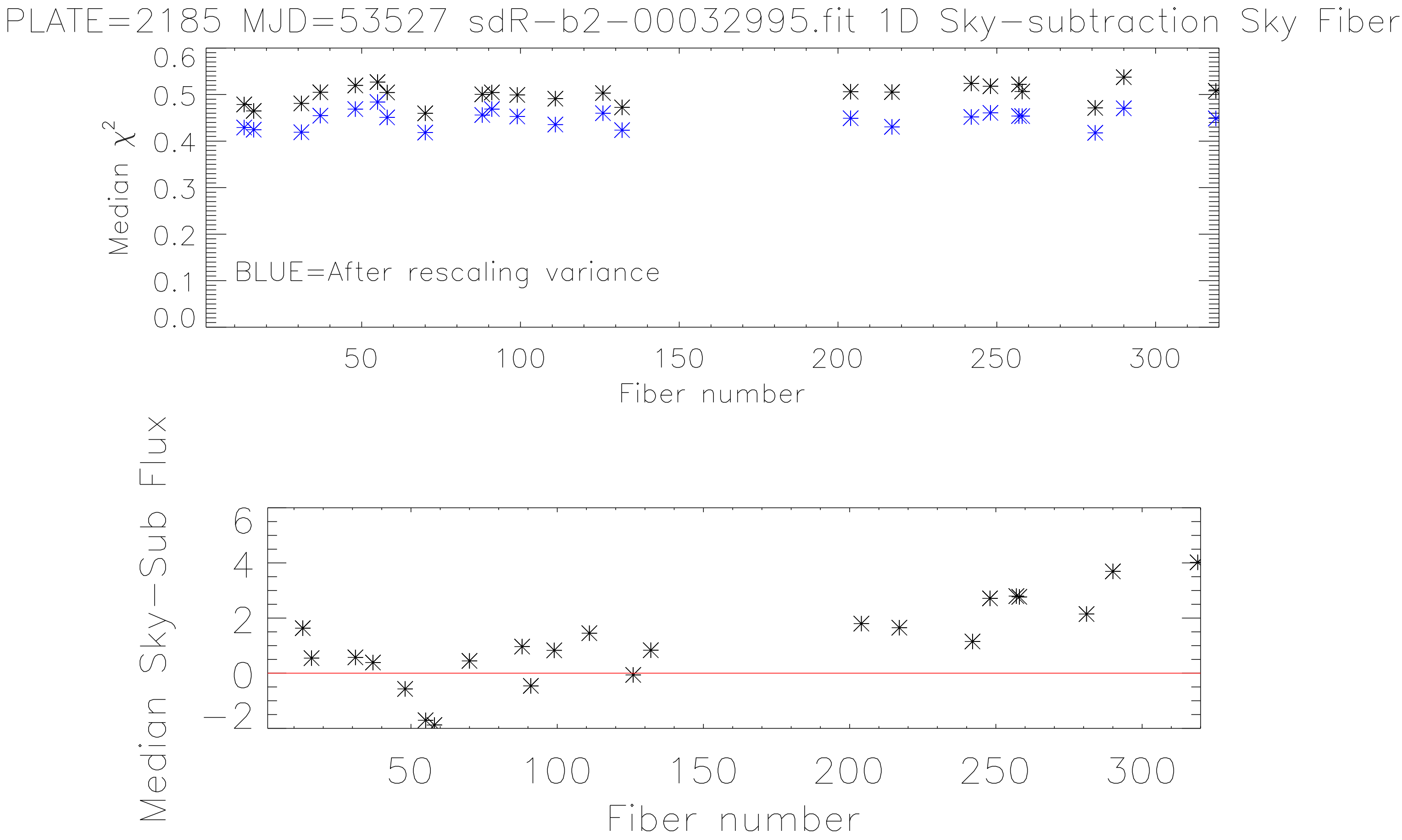

5577.3390
nfib1 26
nfib2 26
stdev 0.014
extra −0.23
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


5889.9500
nfib1 26
nfib2 26
stdev 0.027
extra −0.17
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

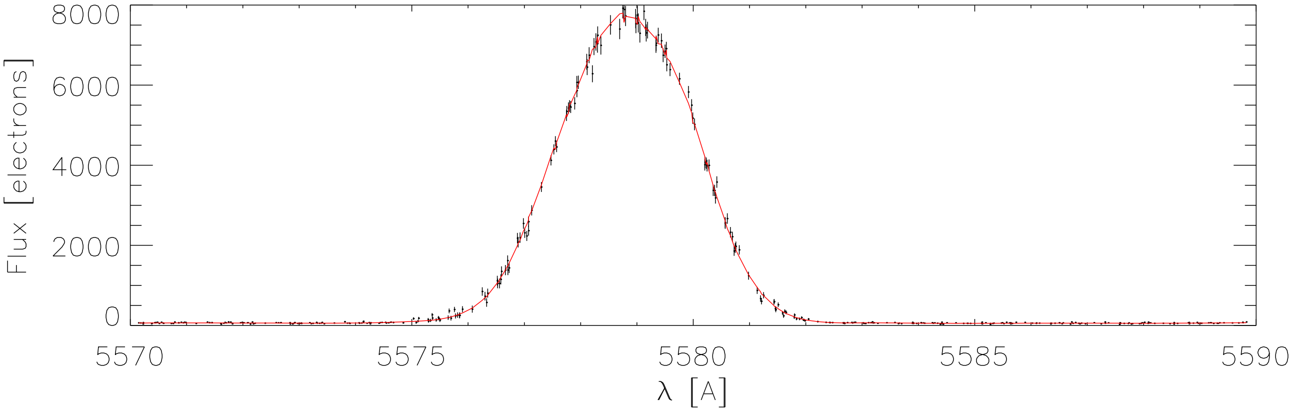

5895.9240
nfib1 26
nfib2 26
stdev 0.041
extra −0.18
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

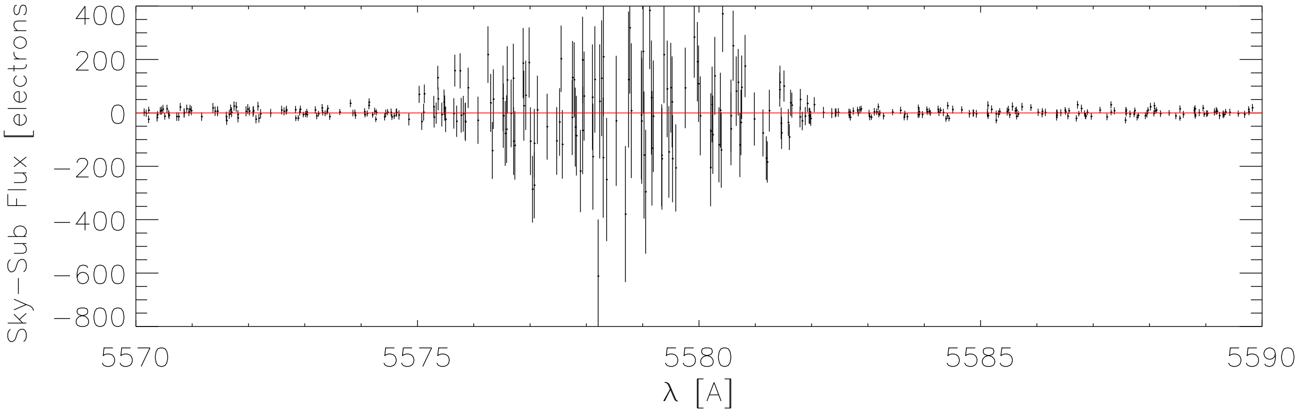

sky shift, pixels
−0.2
−0.3
−0.4
−0.5
3500
4000
4500
5000
5500
6000
6500

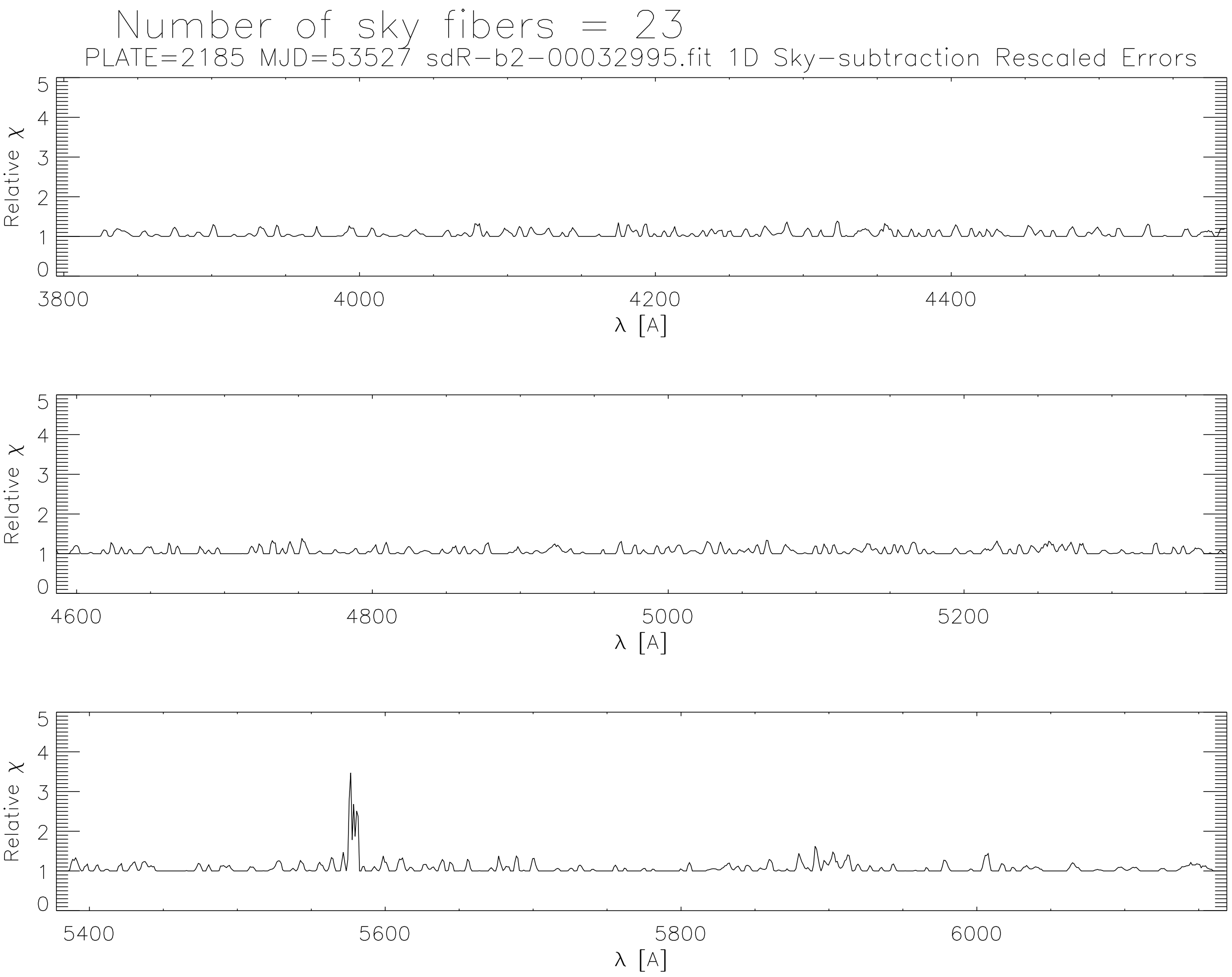

PLATE=2185 MJD=53527 Smooth superflat for sdR-b2-00032995.fit
1.5
1.0
0.5
0.0
1.01
1.00
0.99
0.98
0.97
es=   -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)



PLATE=2185 MJD=53527 sdR-b2-00032995.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.6
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
6
4
2
0
−2
50
100
150
200
250
300
Fiber number

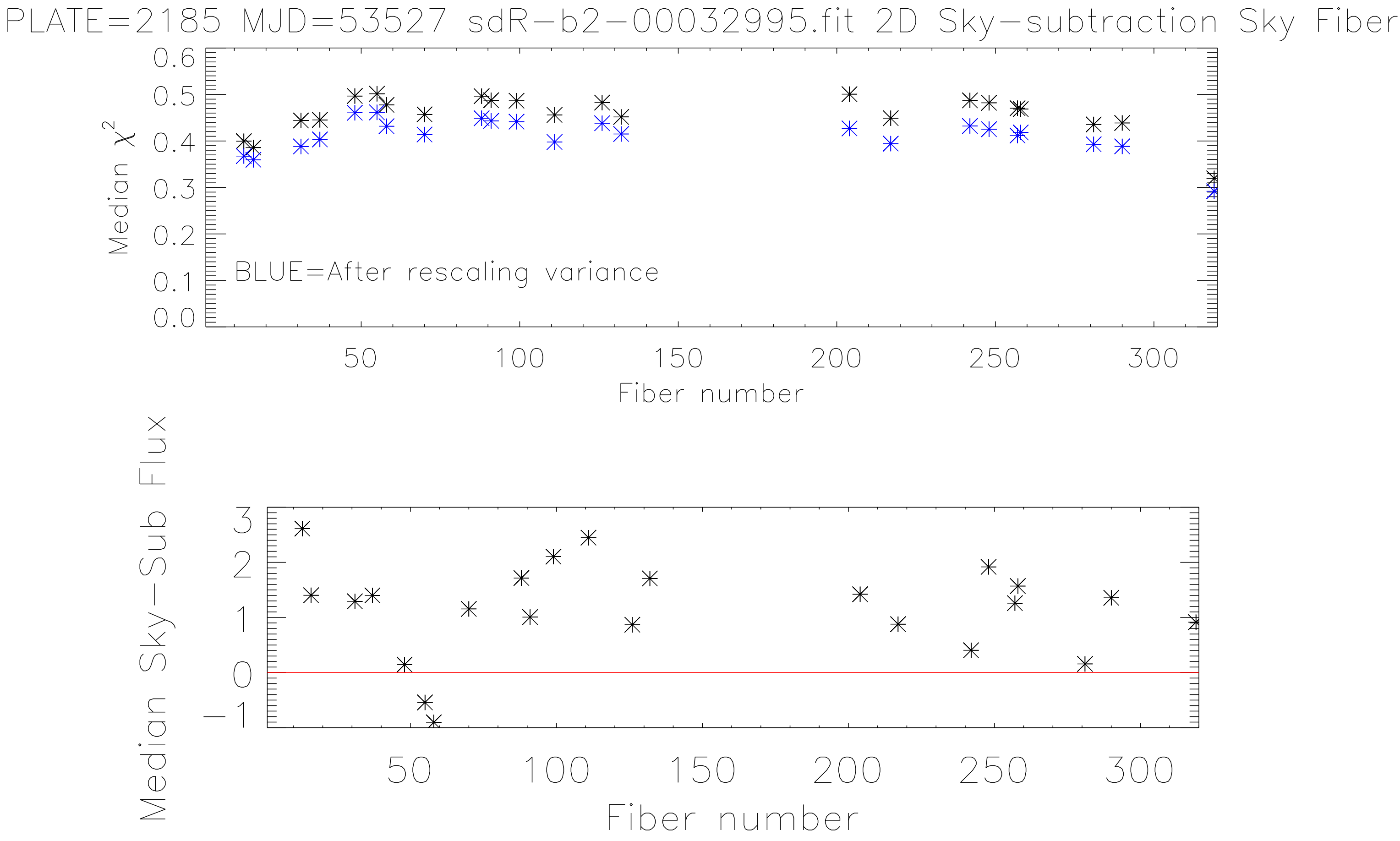

PLATE=2185 MJD=53527 sdR-b2-00032995.fit 1D Sky-subtraction Sky Fibers


PLATE=2185 MJD=53527 sdR-b2-00032995.fit 1D Sky-subtraction Sky-subtracted Sky F

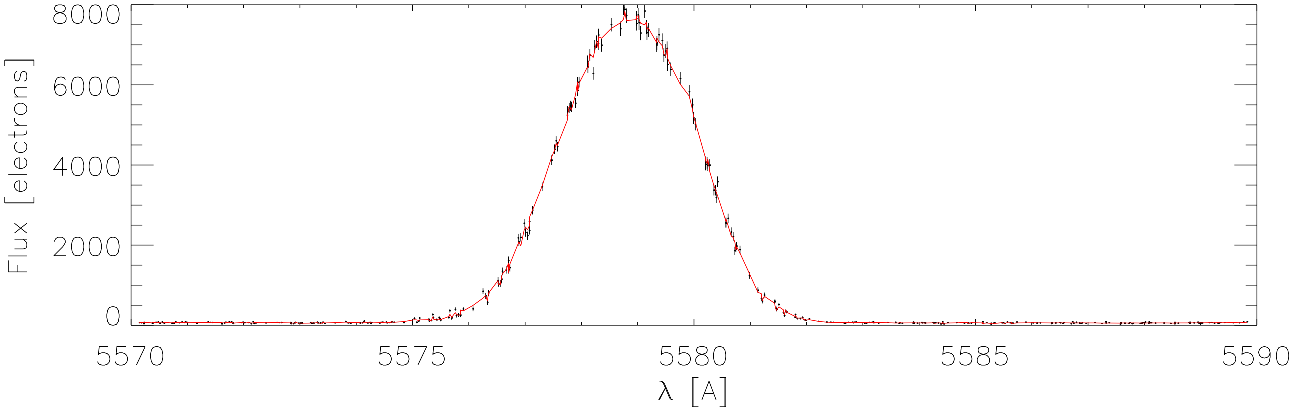


Number of sky fibers = 23

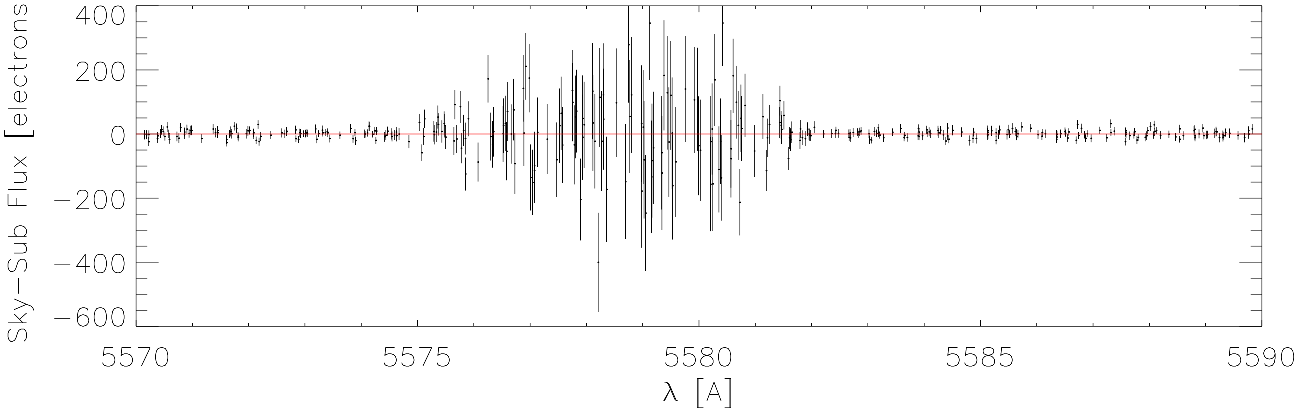
PLATE=2185 MJD=53527 sdR-b2-00032995.fit 1D Sky-subtraction Rescaled Errors


PLATE=2185 MJD=53527 sdR-b2-00032995.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.6
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
3
2
1
0
−1
50
100
150
200
250
300
Fiber number

PLATE=2185 MJD=53527 sdR-b2-00032995.fit 2D Sky-subtraction Sky Fibers

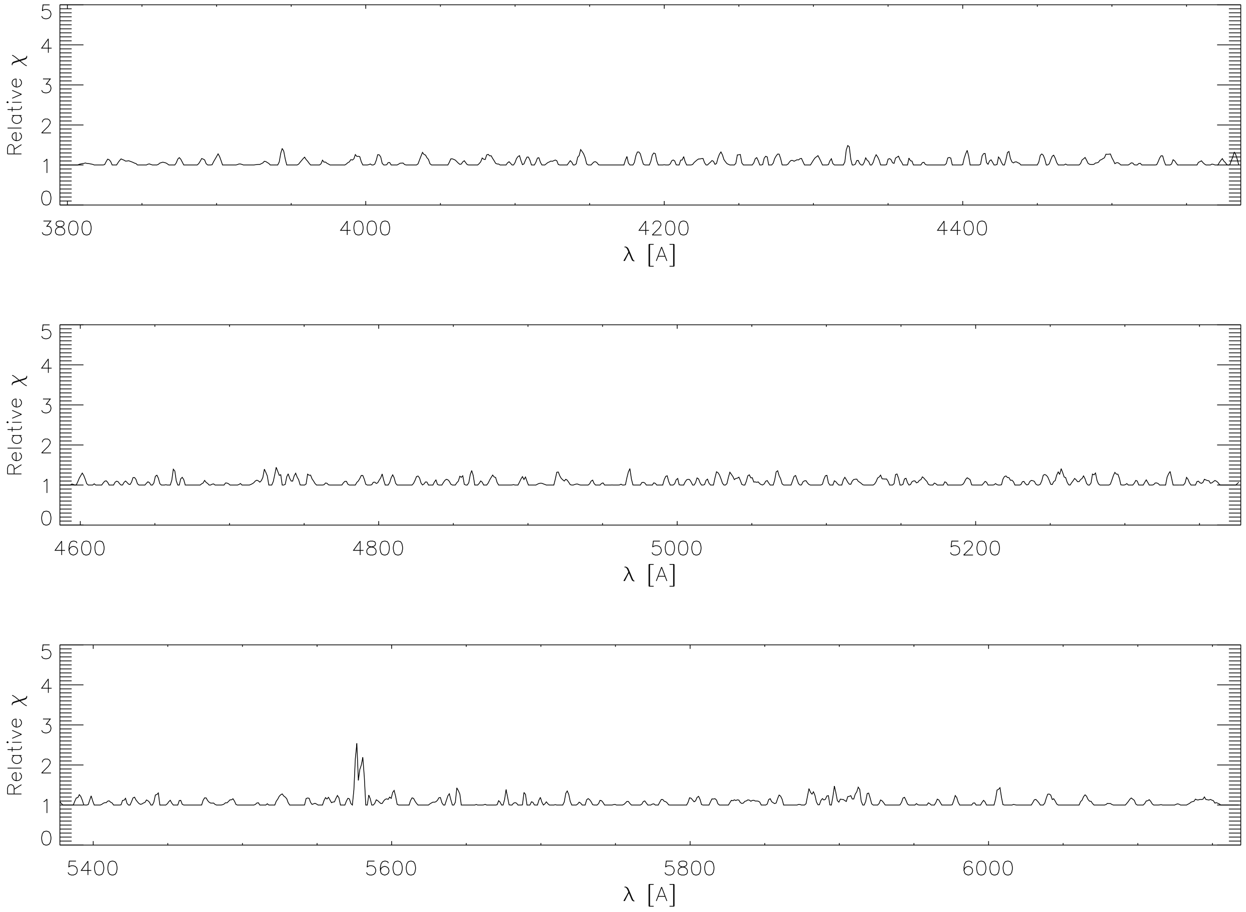


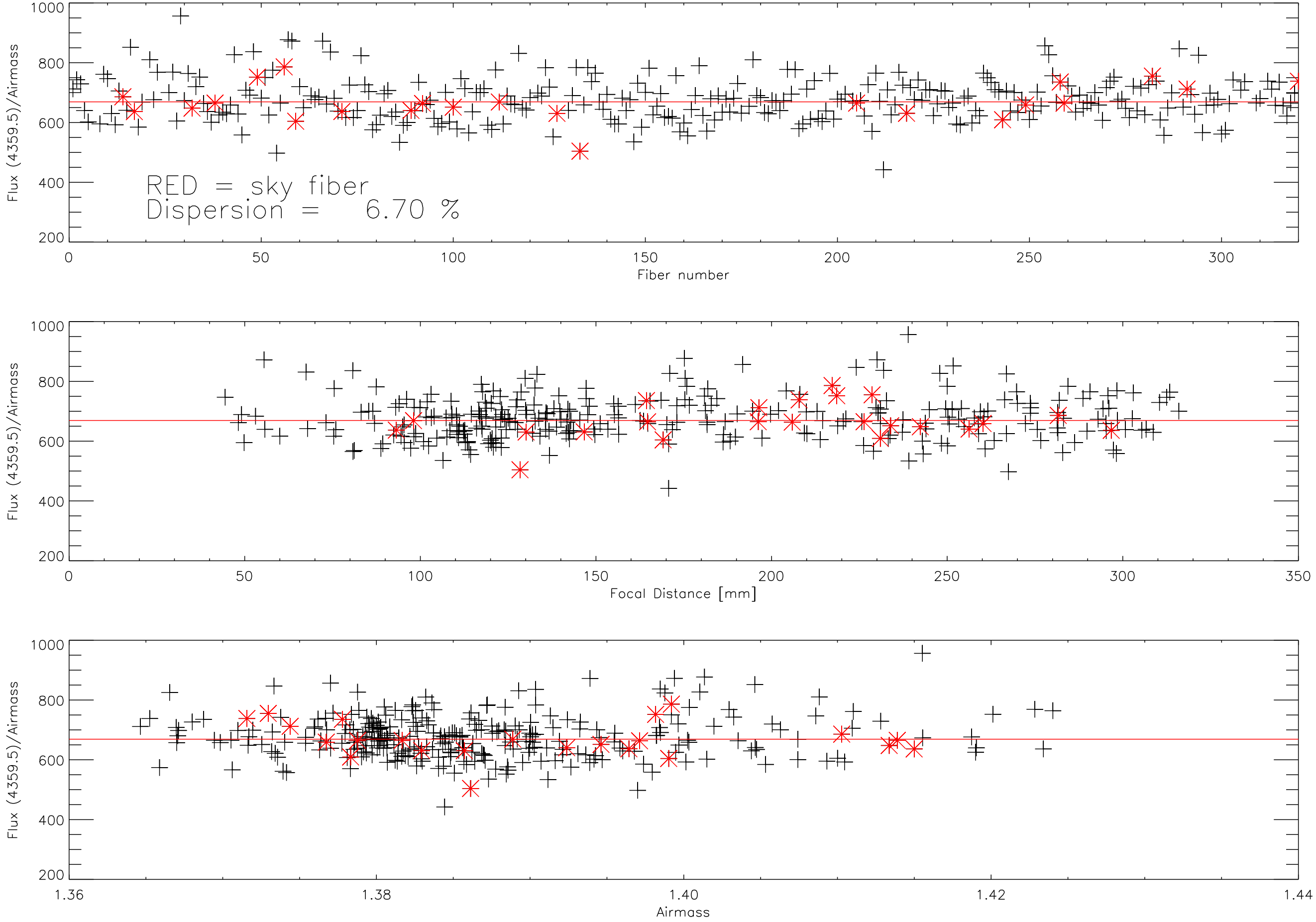
PLATE=2185 MJD=53527 sdR-b2-00032995.fit 2D Sky-subtraction Sky-subtracted Sky F

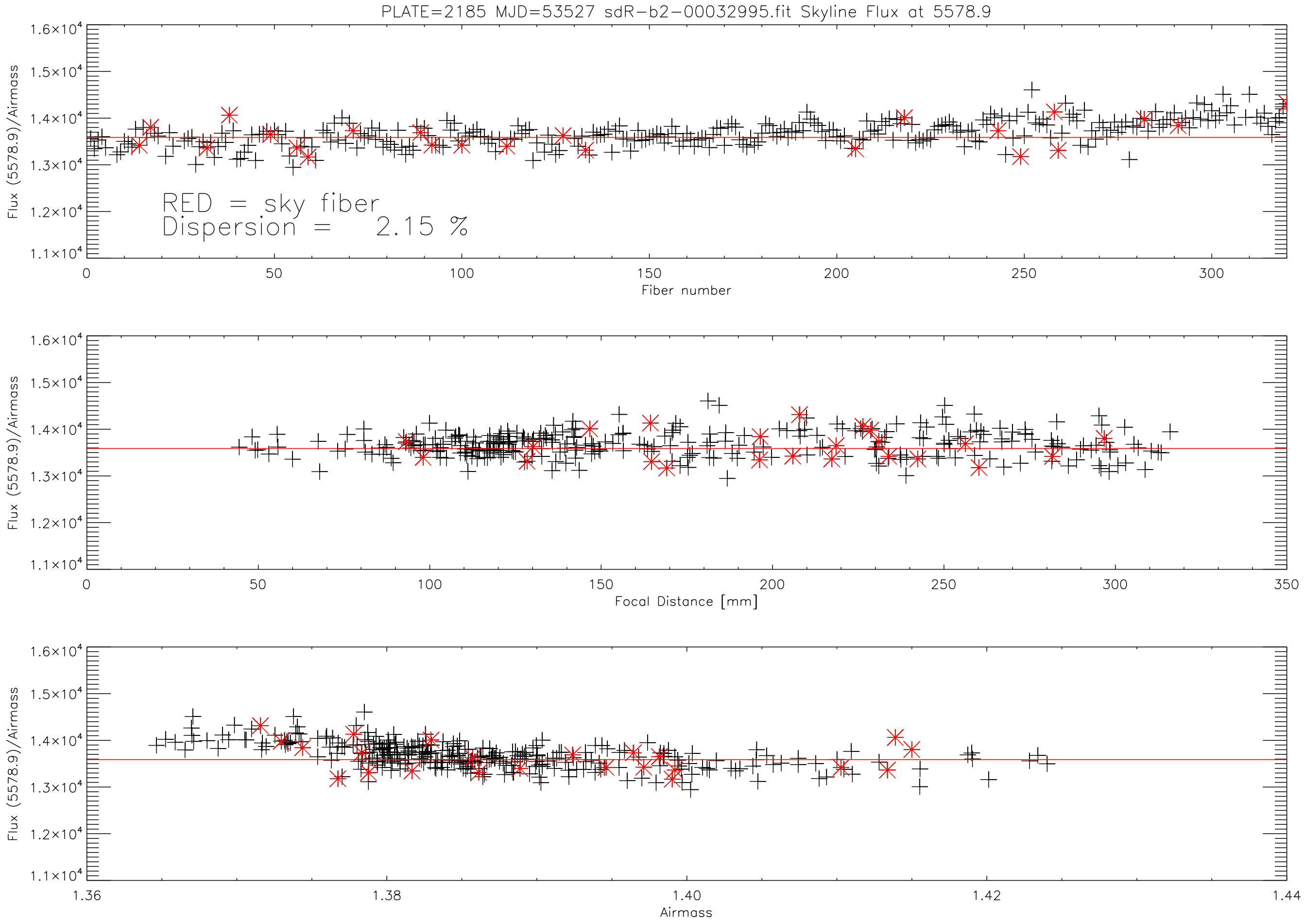


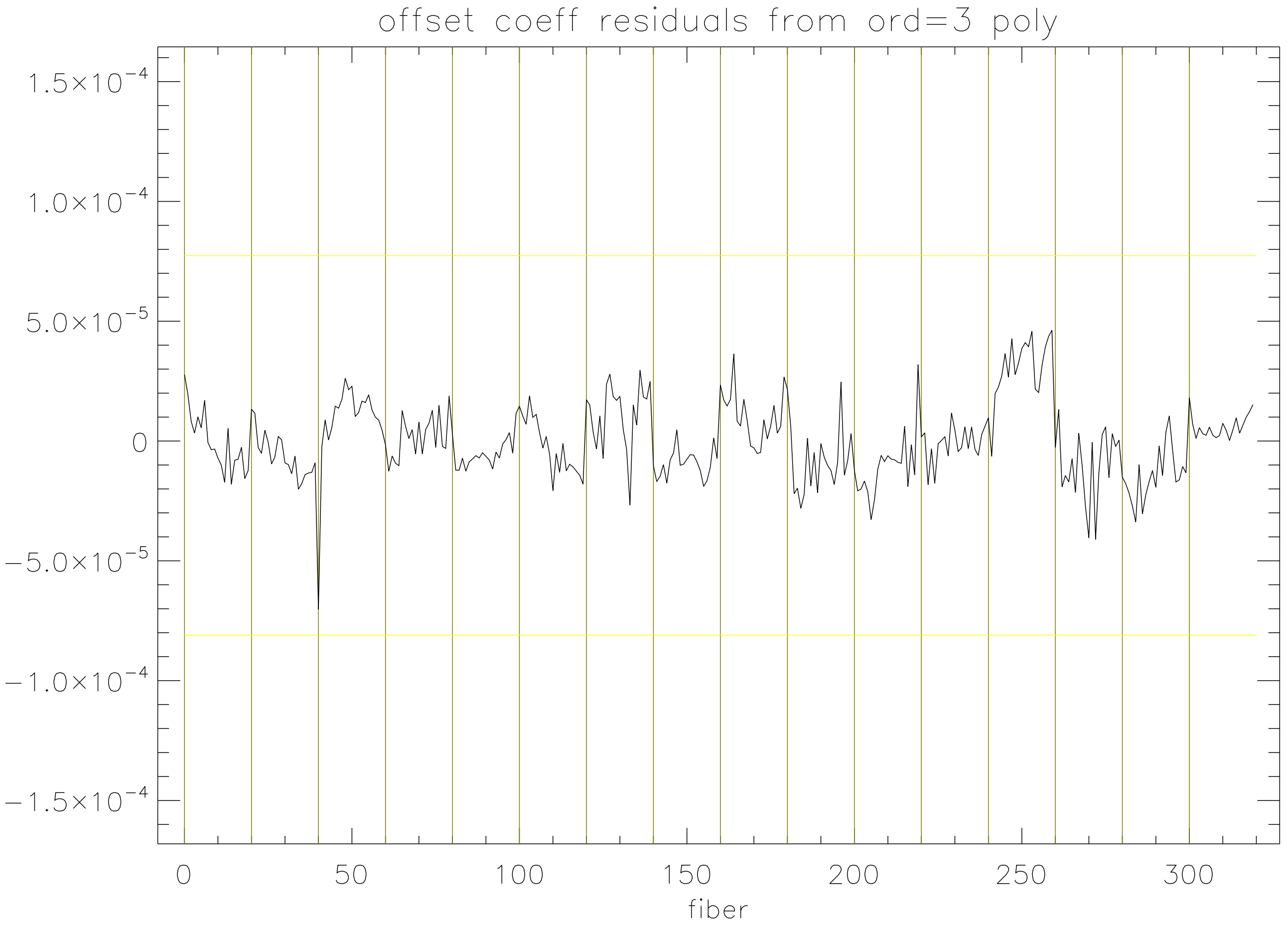
Number of sky fibers = 23

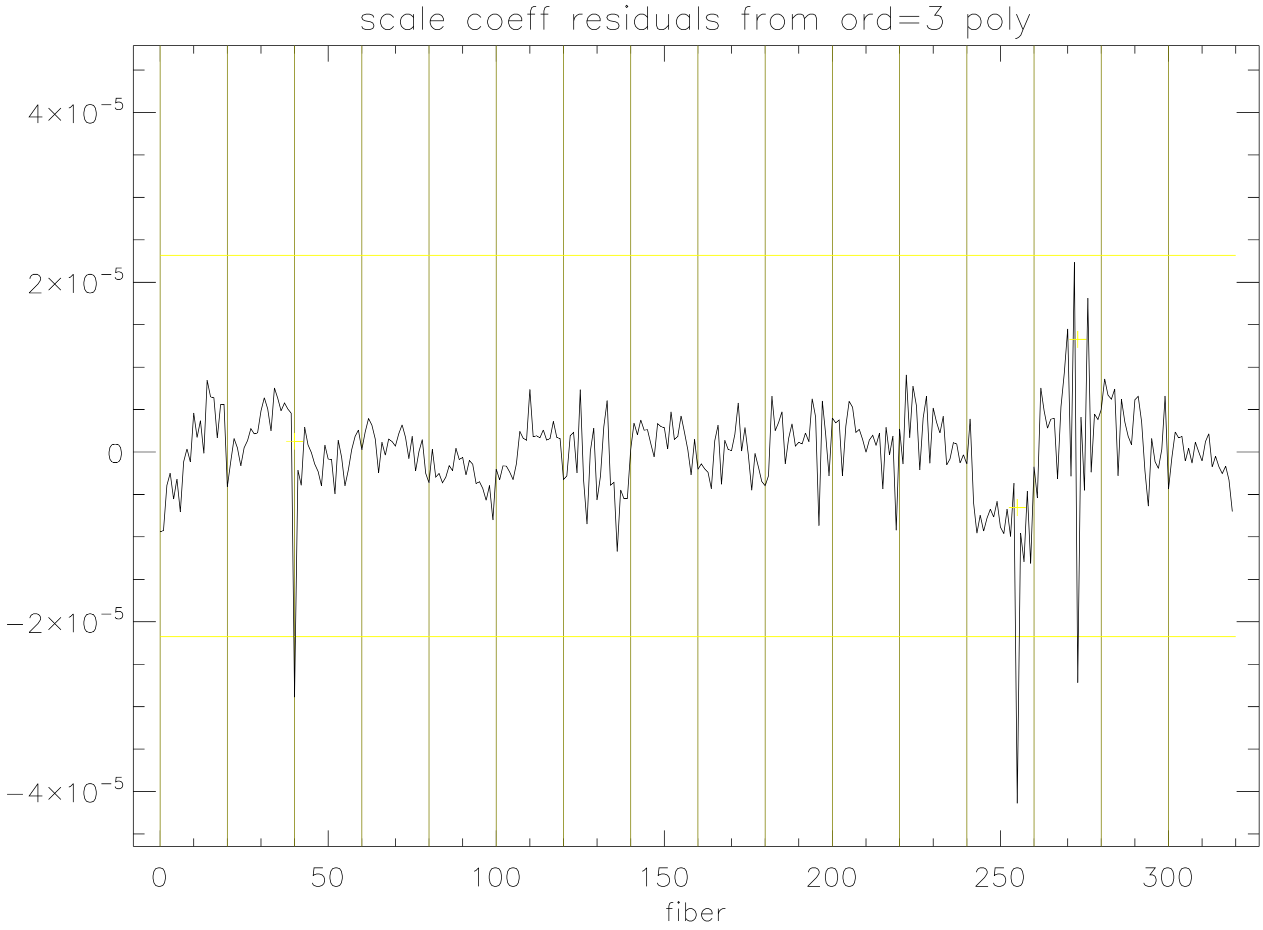
PLATE=2185 MJD=53527 sdR-b2-00032995.fit 2D Sky-subtraction Rescaled Errors

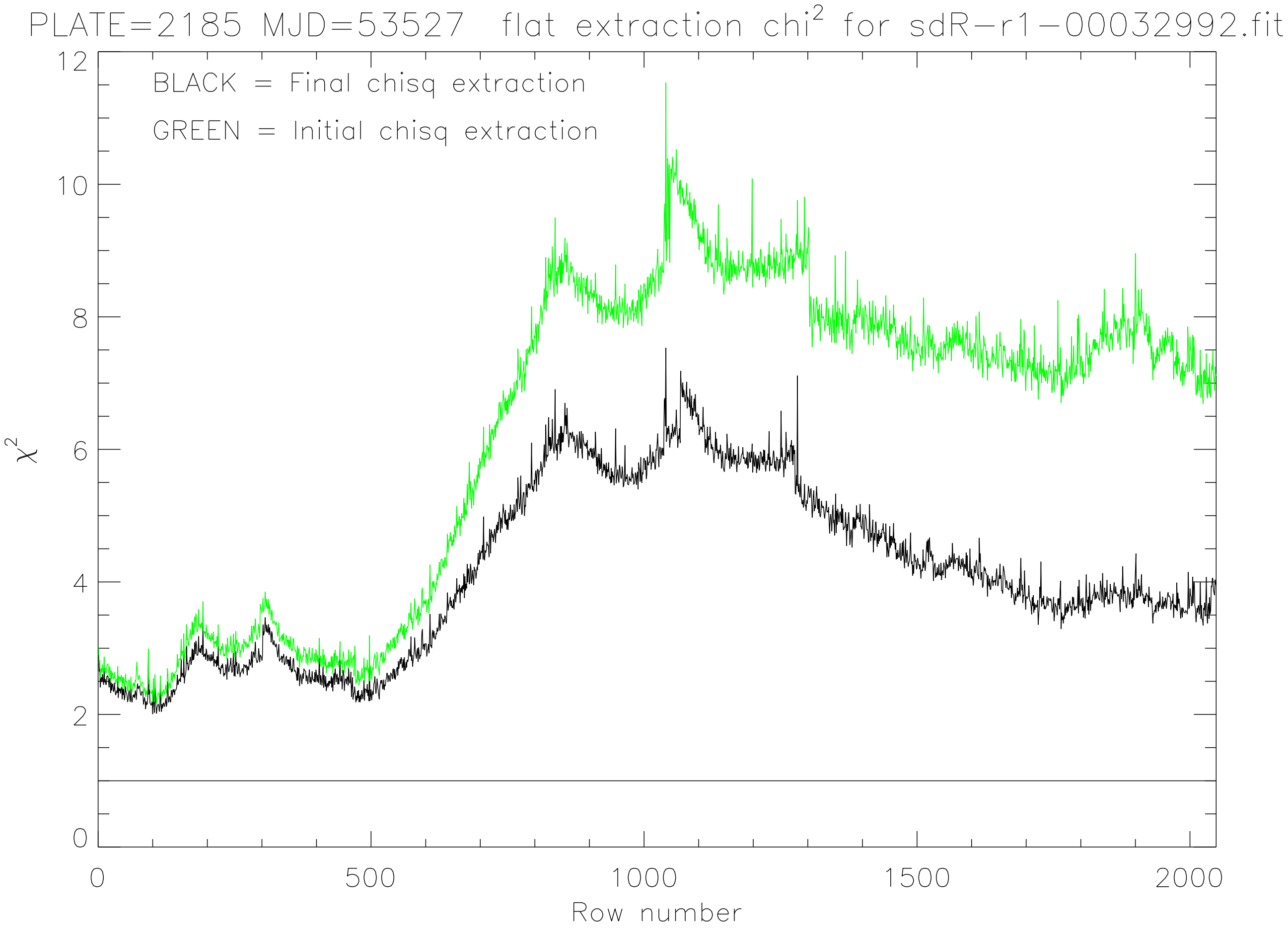



PLATE=2185 MJD=53527 sdR-b2-00032995.fit Skyline Flux at 4359.5

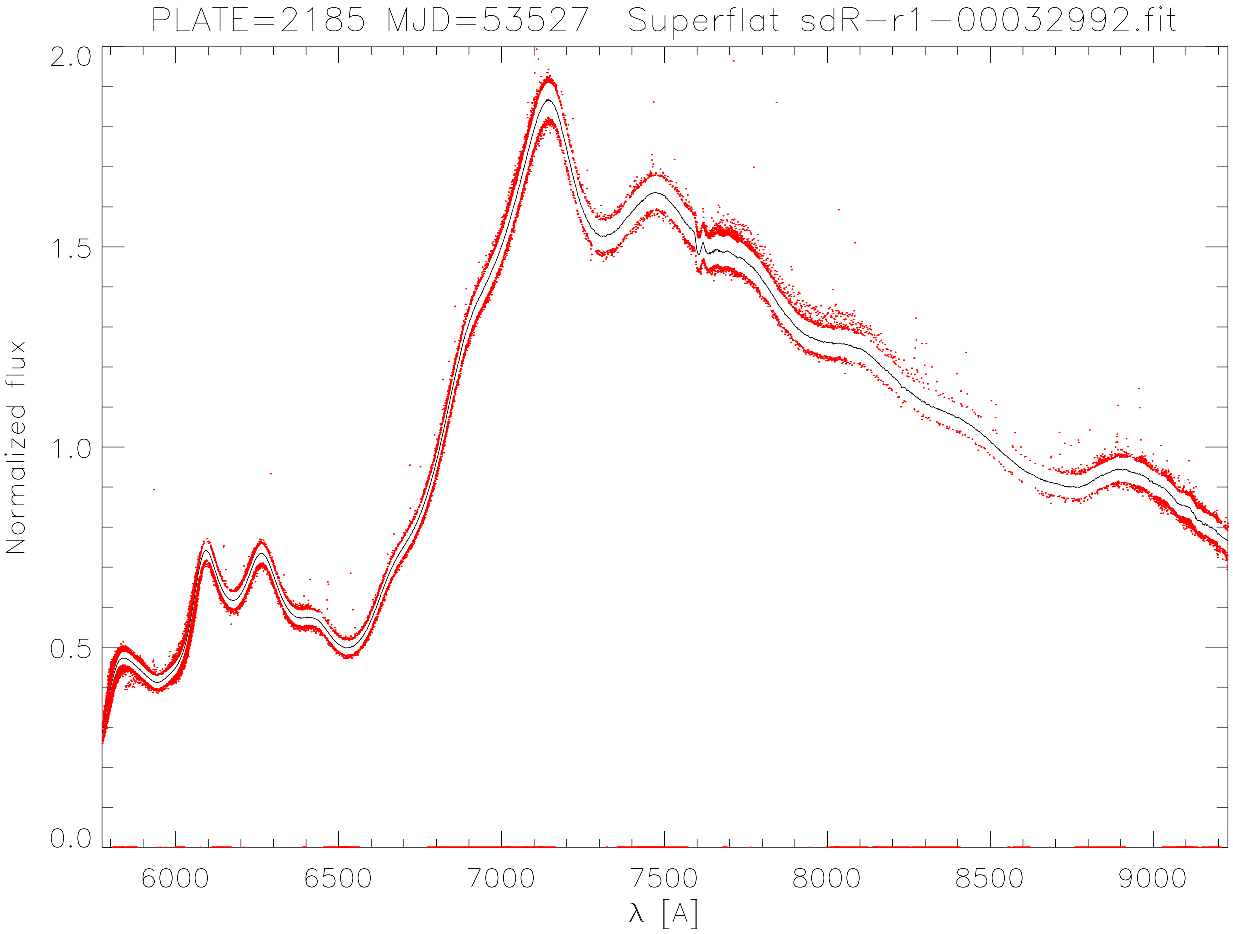

PLATE=2185 MJD=53527 sdR-b2-00032995.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.6×10⁴
1.5×10⁴
1.4×10⁴
1.3×10⁴
1.2×10⁴
1.1×10⁴
RED = sky fiber
Dispersion = 2.15 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
0
50
100
150
200
250
300
350
Focal Distance [mm]
Flux (5578.9)/Airmass
1.36
1.38
1.40
1.42
1.44
Airmass

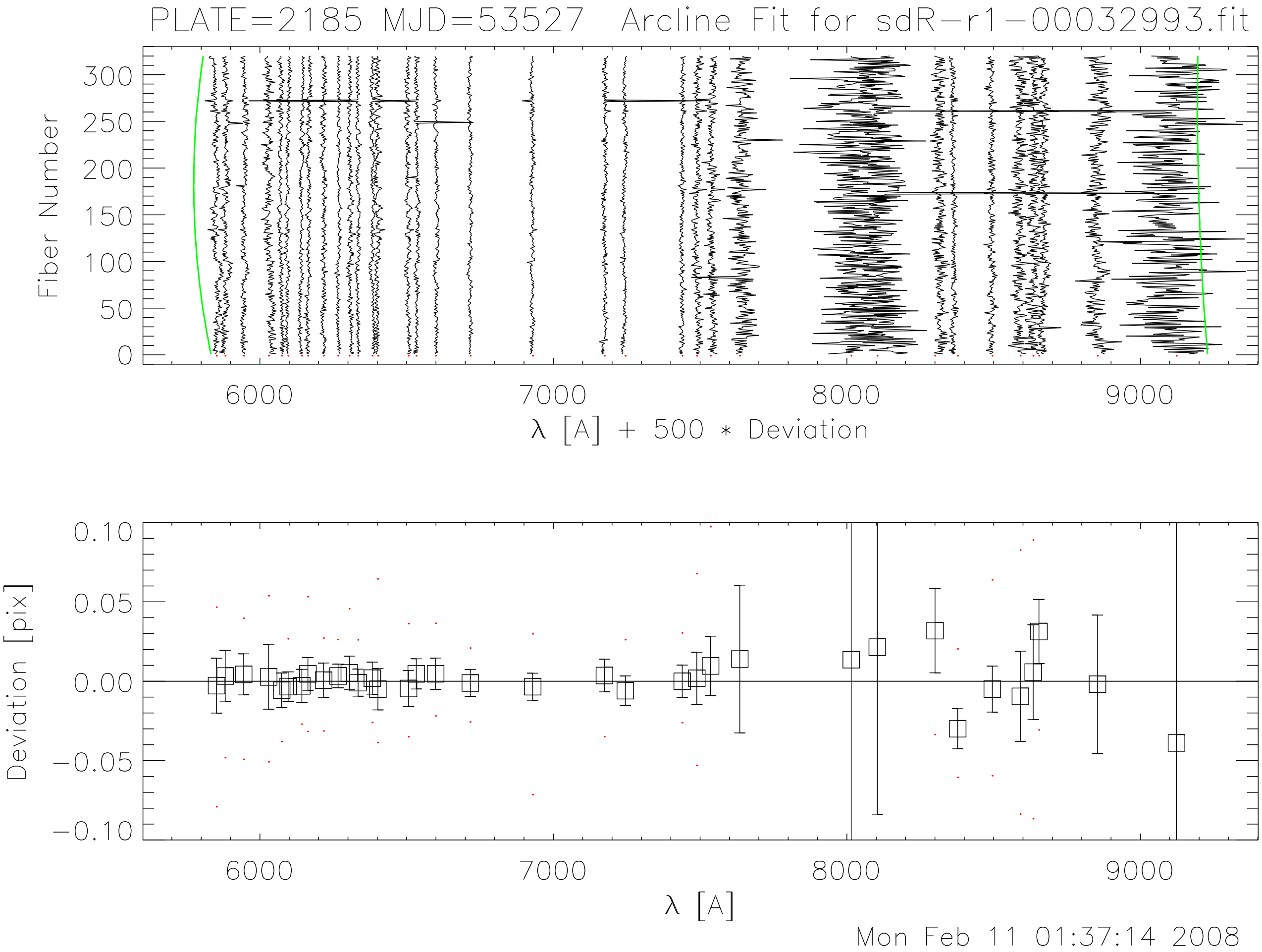

offset coeff residuals from ord=3 poly
1.5×10⁻⁴
1.0×10⁻⁴
5.0×10⁻⁵
0
−5.0×10⁻⁵
−1.0×10⁻⁴
−1.5×10⁻⁴
0
50
100
150
200
250
300
fiber

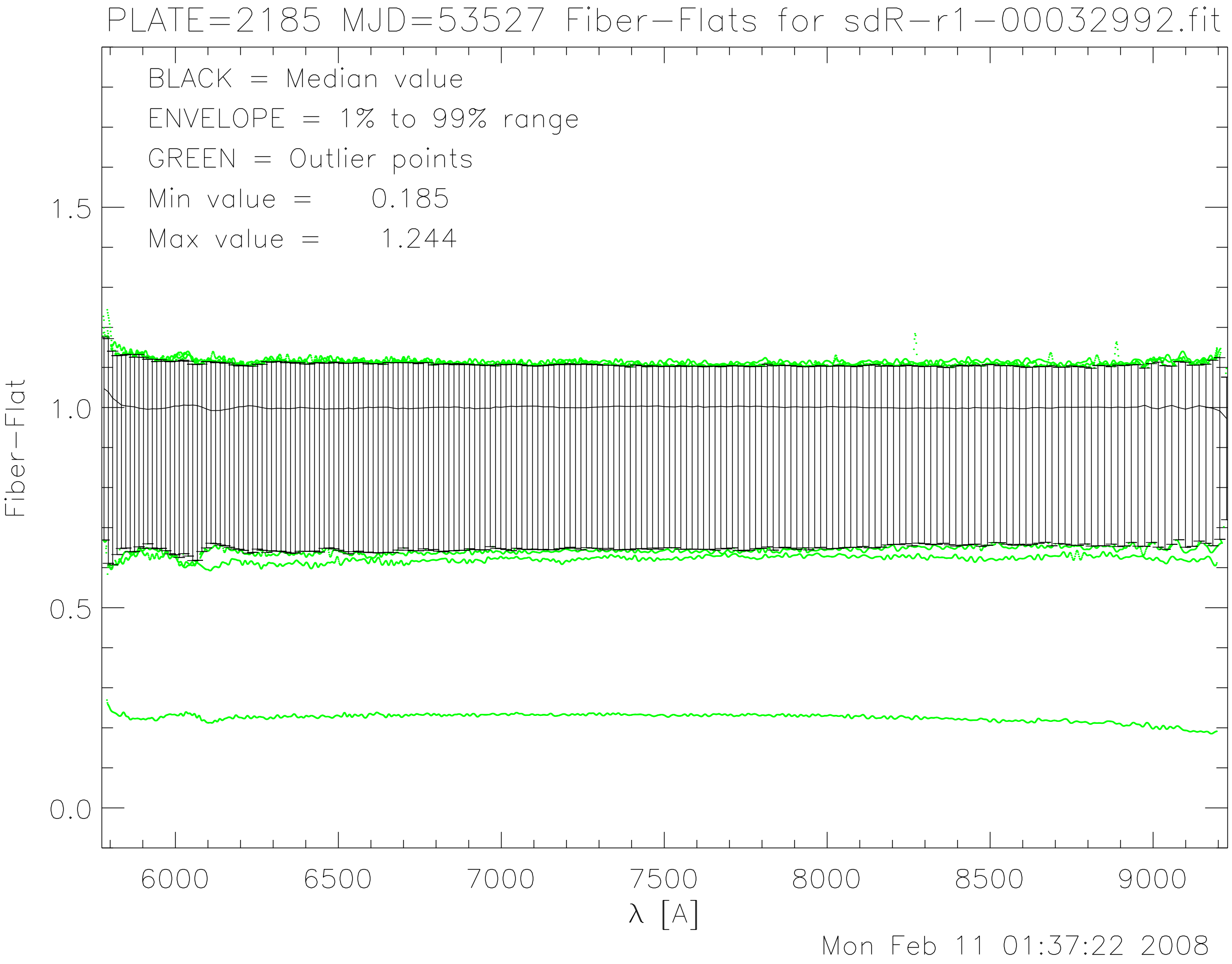

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber



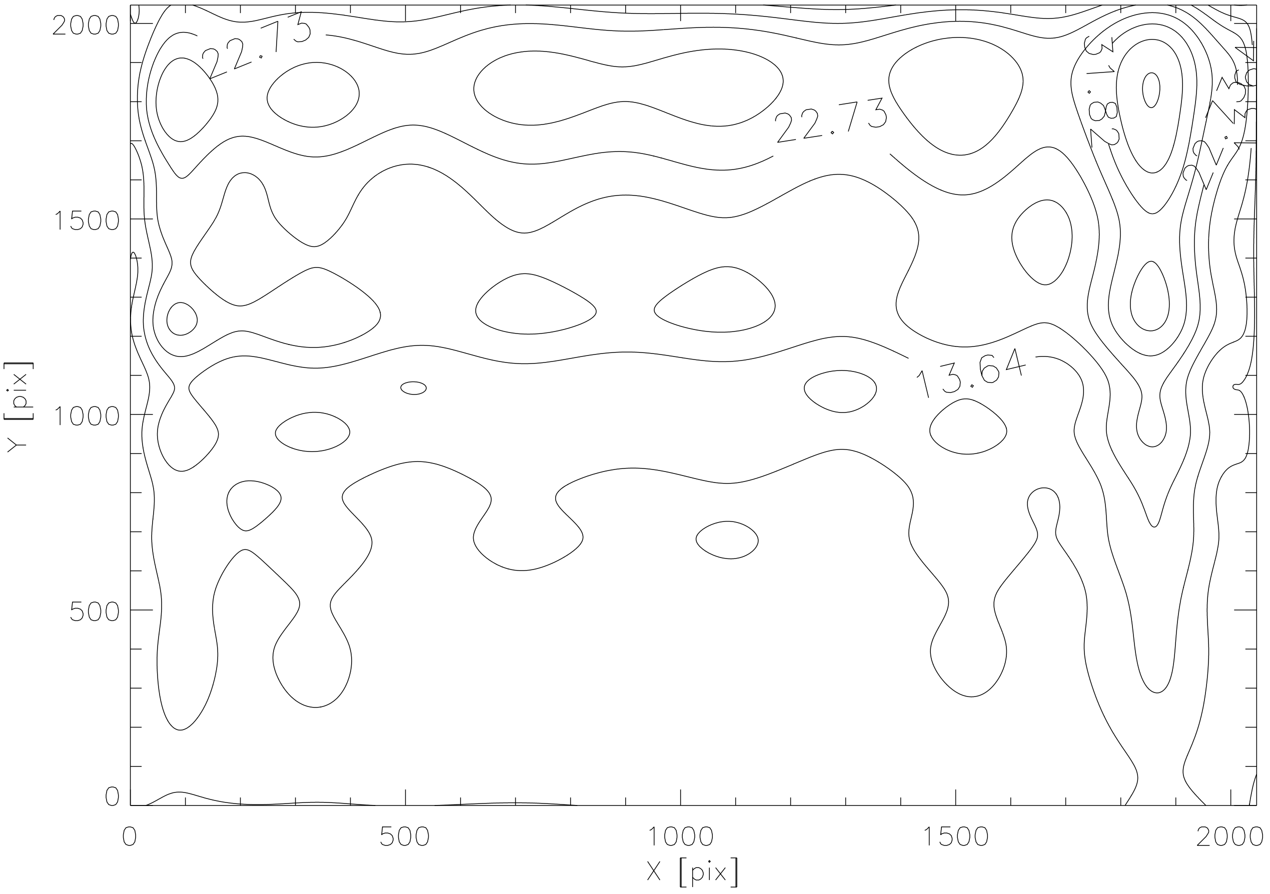
PLATE=2185 MJD=53527 flat extraction chi^2 for sdR-r1-00032992.fit

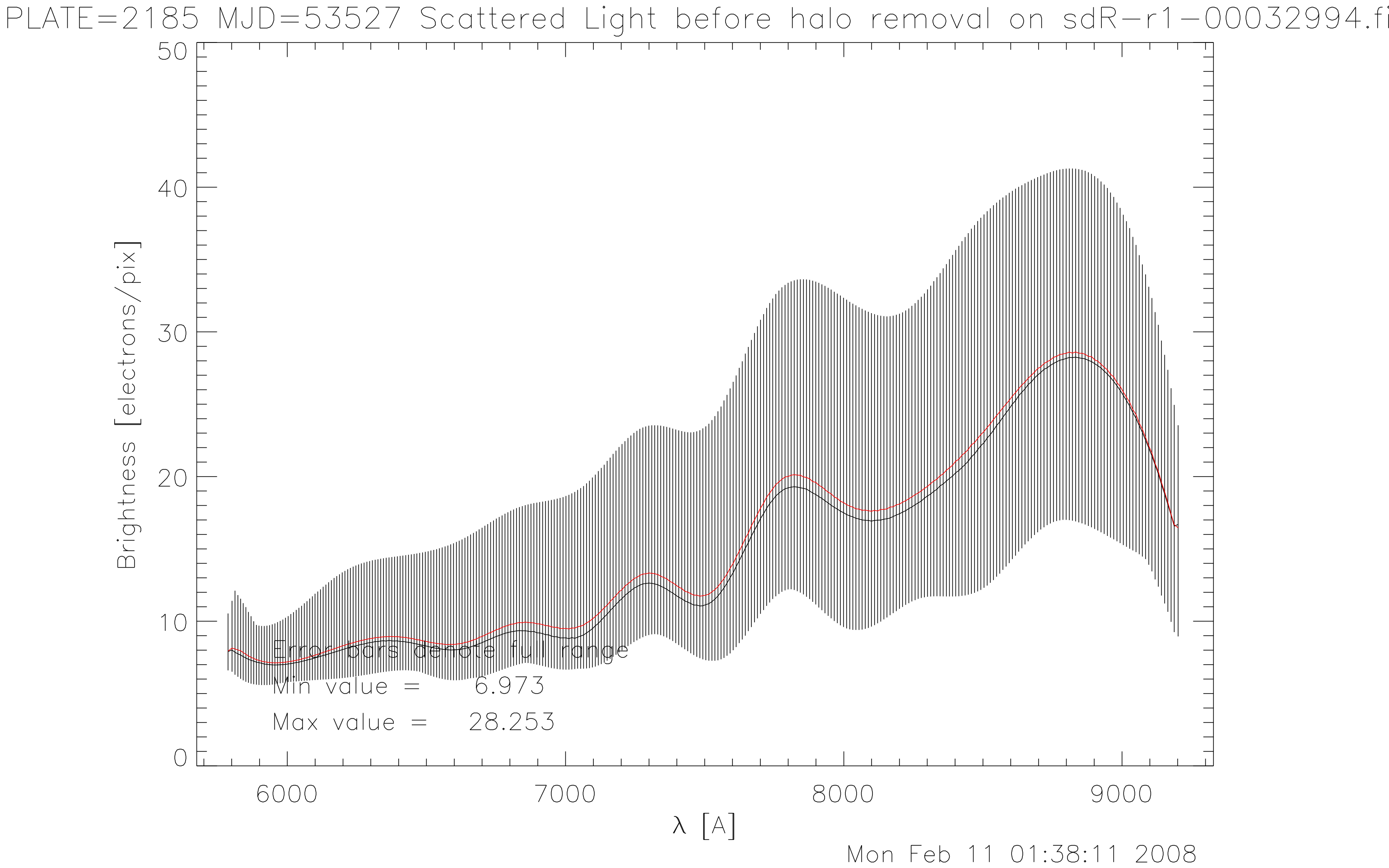

PLATE=2185 MJD=53527 Superflat sdR-r1-00032992.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

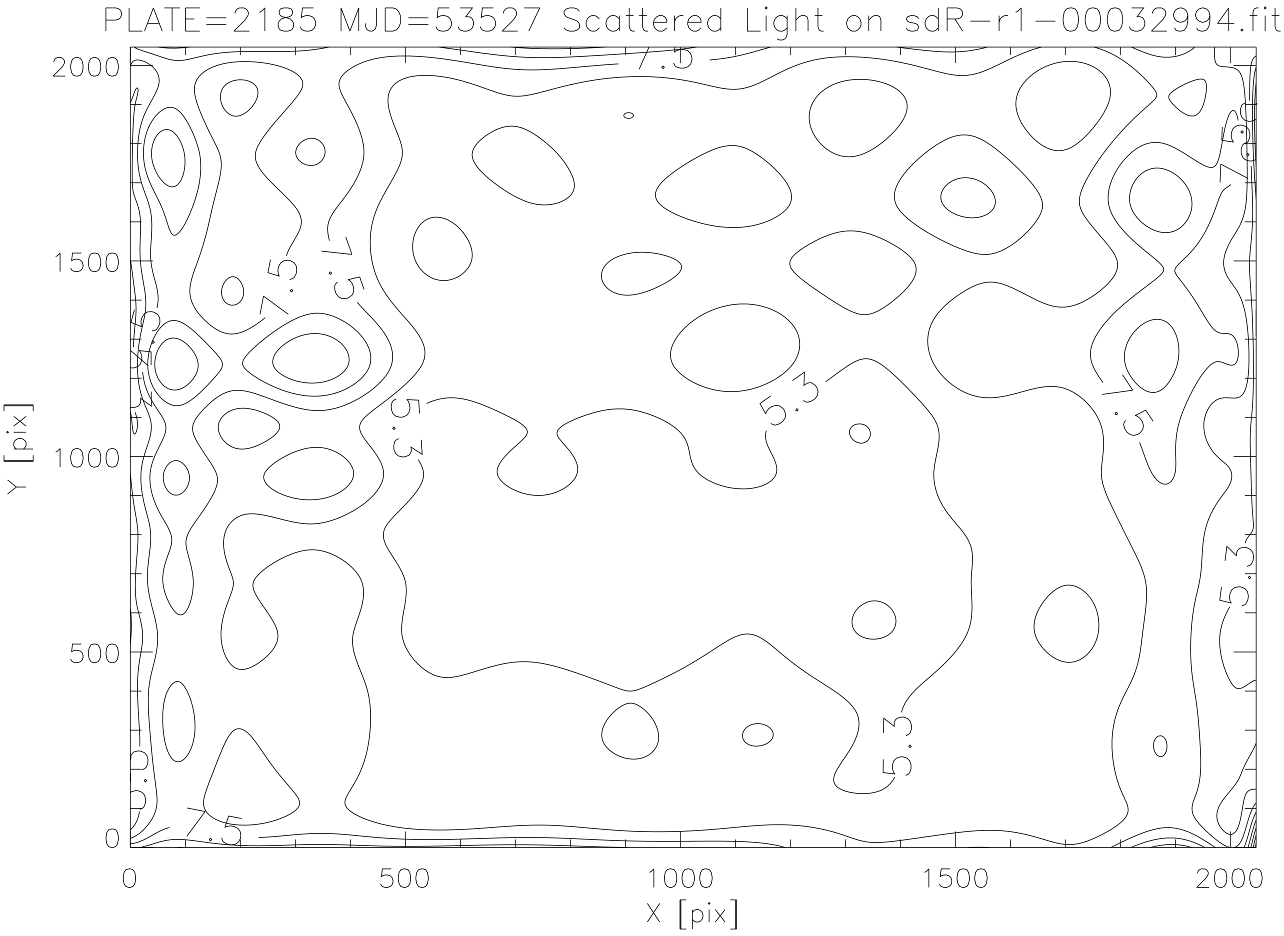

PLATE=2185 MJD=53527 Arcline Fit for sdR-r1-00032993.fit
Fiber Number
0
50
100
150
200
250
300
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 11 01:37:14 2008

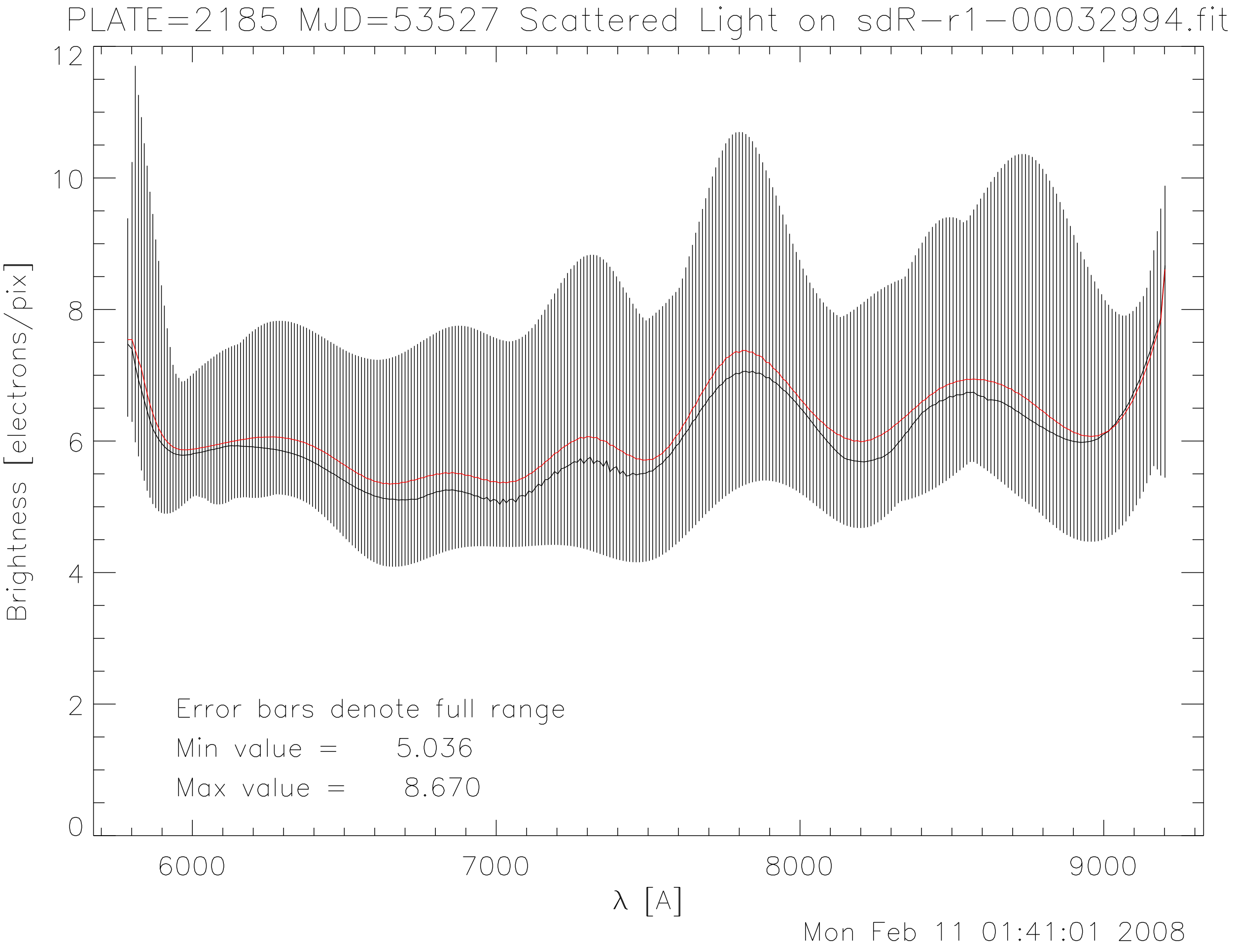

PLATE=2185 MJD=53527 Fiber-Flats for sdR-r1-00032992.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.185
Max value = 1.244
Fiber-Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 01:37:22 2008

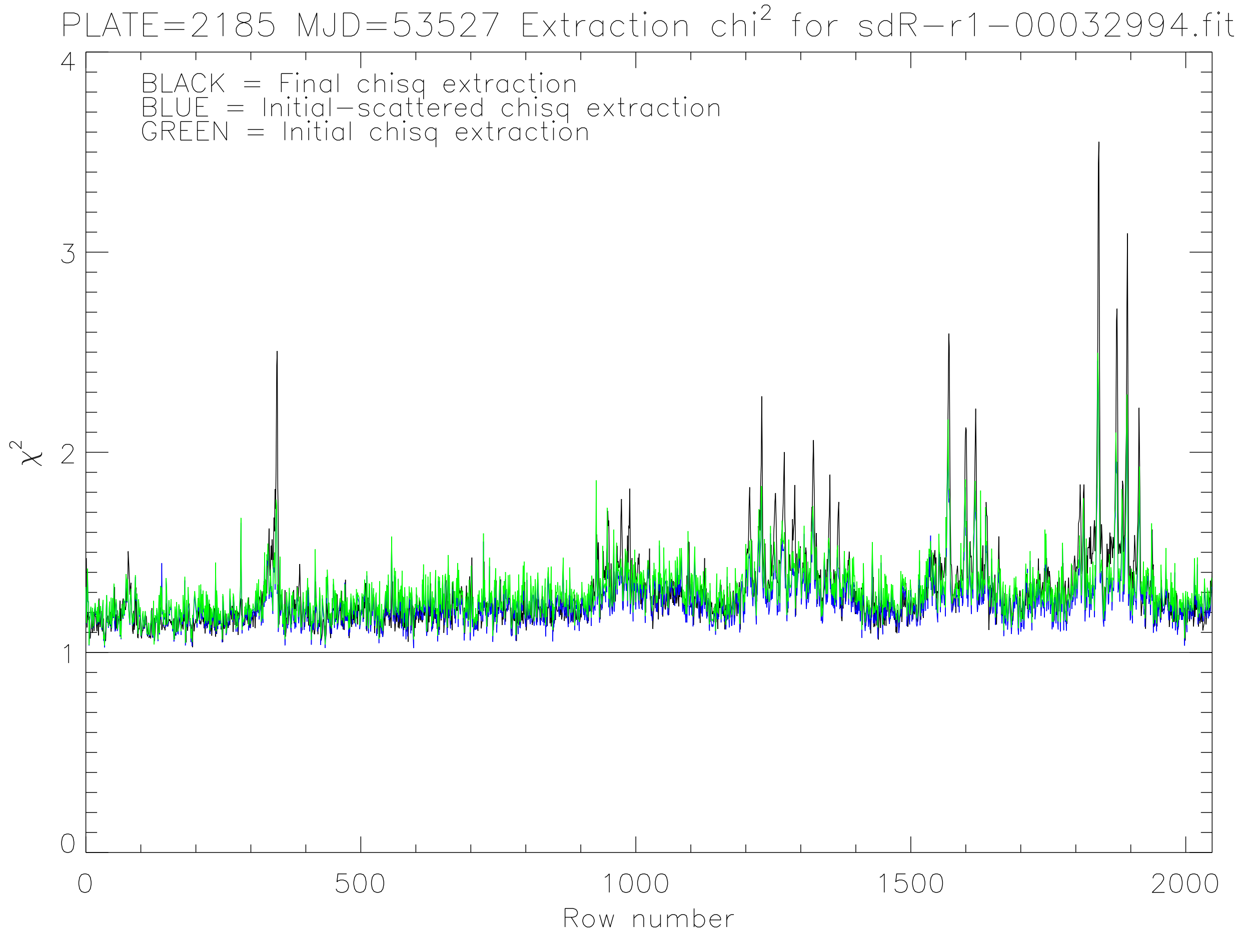
PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-r1-00032994.fi

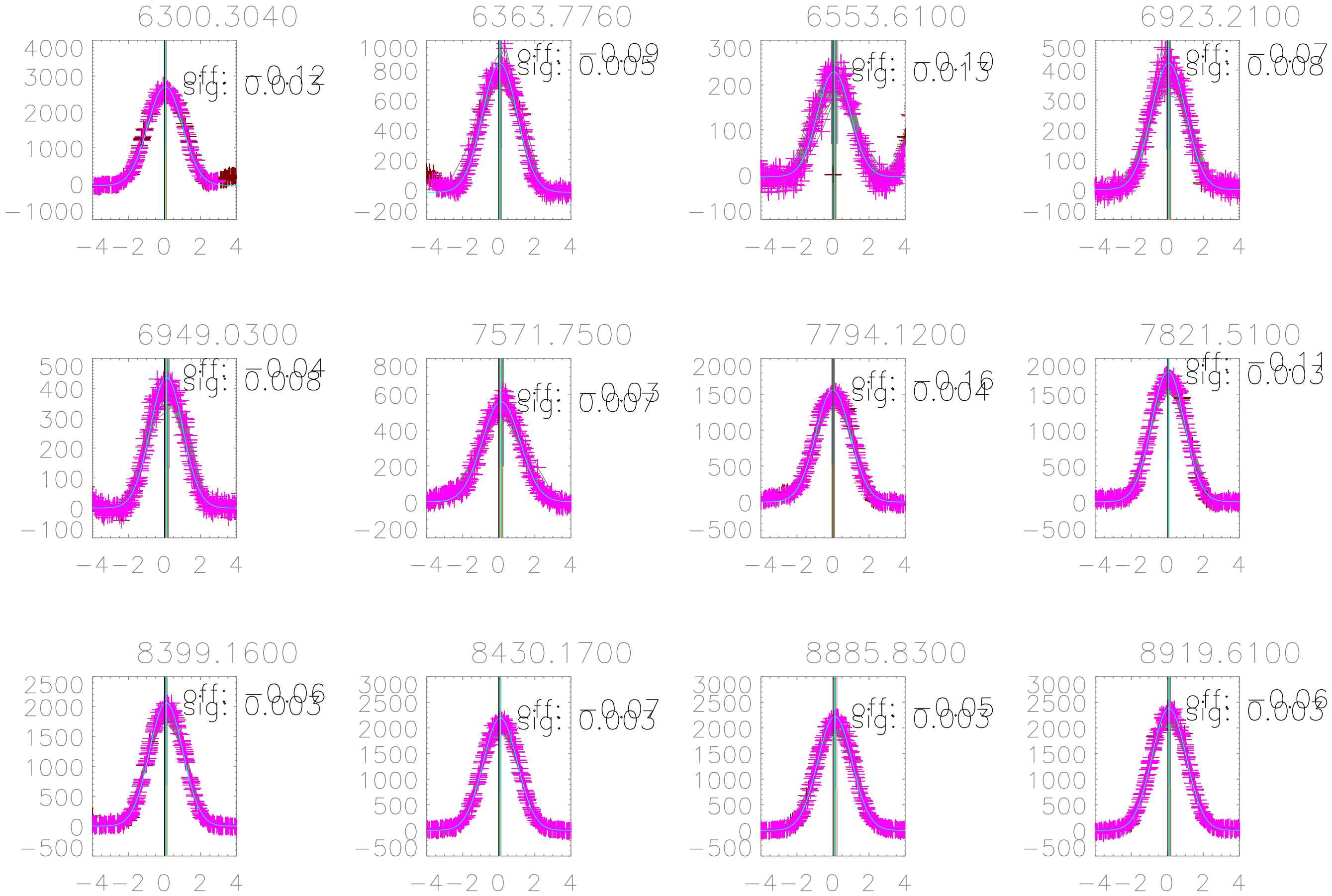


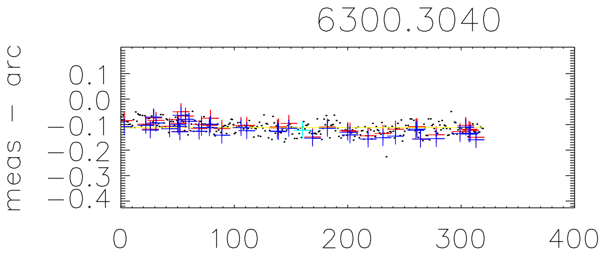

PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-r1-00032994.fi
Brightness [electrons/pix]
0
10
20
30
40
50
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.973
Max value = 28.253
Mon Feb 11 01:38:11 2008

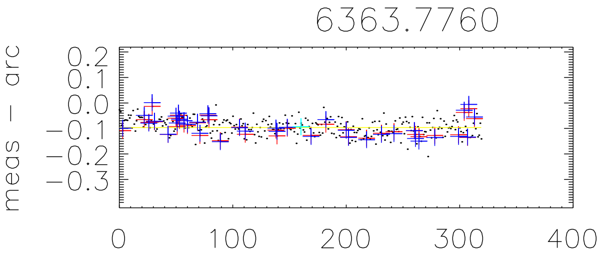

PLATE=2185 MJD=53527 Scattered Light on sdR-r1-00032994.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
7.5
5.3

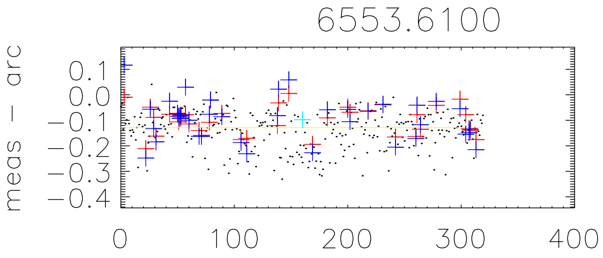

PLATE=2185 MJD=53527 Scattered Light on sdR-r1-00032994.fit
Brightness [electrons/pix]
λ [A]
0
2
4
6
8
10
12
6000
7000
8000
9000
Error bars denote full range
Min value = 5.036
Max value = 8.670
Mon Feb 11 01:41:01 2008

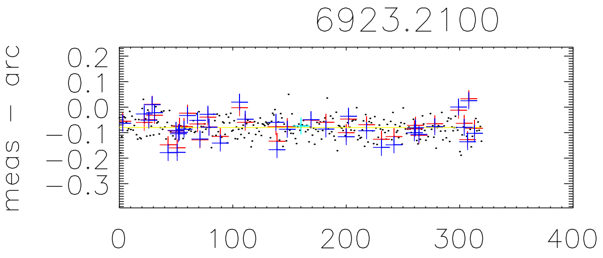

PLATE=2185 MJD=53527 Extraction chi^2 for sdR-r1-00032994.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
Row number
0
500
1000
1500
2000

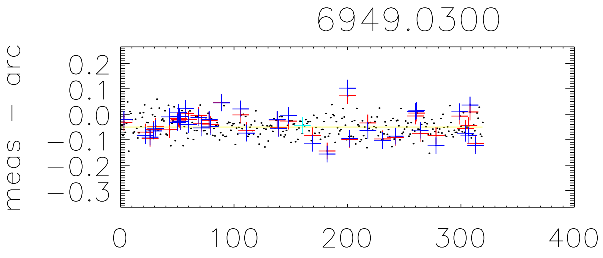

6300.3040
off: −0.12
sig: 0.003
6363.7760
off: −0.09
sig: 0.005
6553.6100
off: −0.10
sig: 0.013
6923.2100
off: −0.07
sig: 0.008
6949.0300
off: −0.04
sig: 0.008
7571.7500
off: −0.03
sig: 0.007
7794.1200
off: −0.16
sig: 0.004
7821.5100
off: −0.11
sig: 0.003
8399.1600
off: −0.06
sig: 0.003
8430.1700
off: −0.07
sig: 0.003
8885.8300
off: −0.05
sig: 0.003
8919.6100
off: −0.06
sig: 0.003
−4 −2 0 2 4

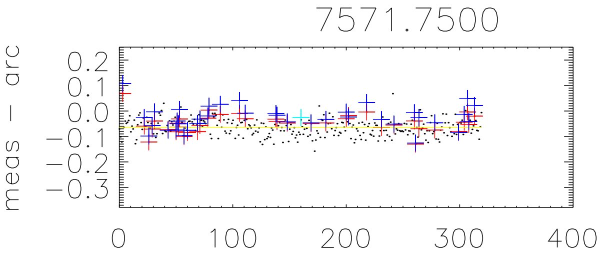

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

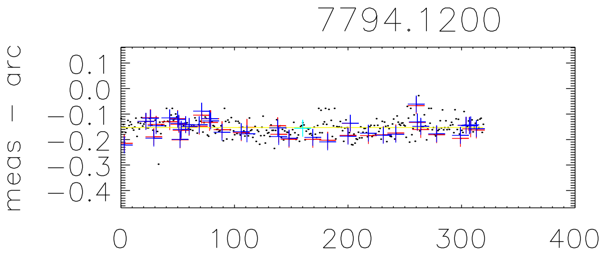

6363.7760
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

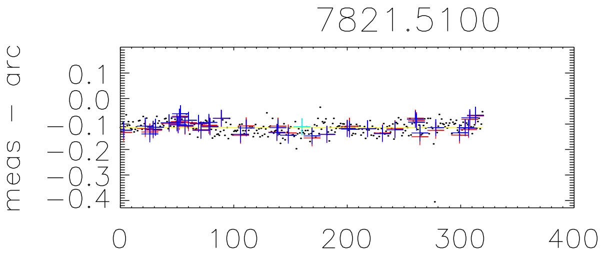

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

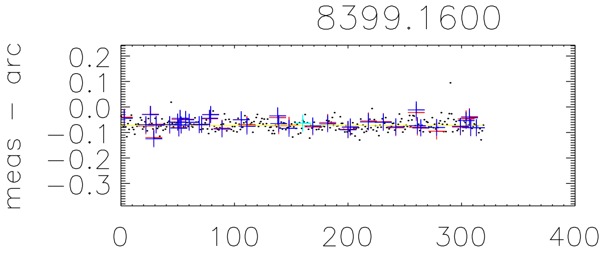

6923.2100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

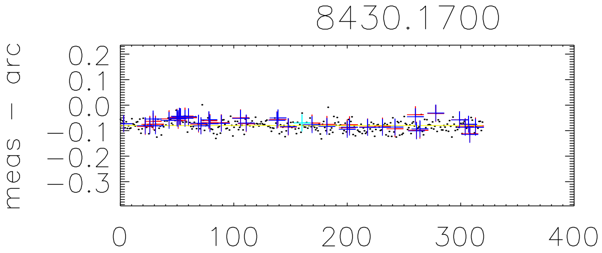

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

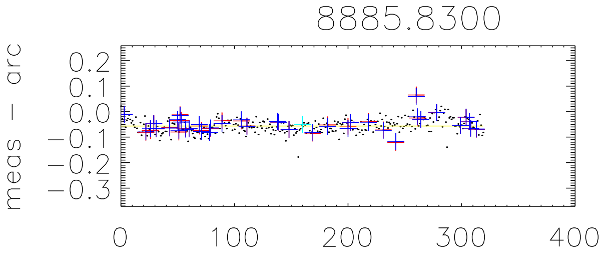

7571.7500
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

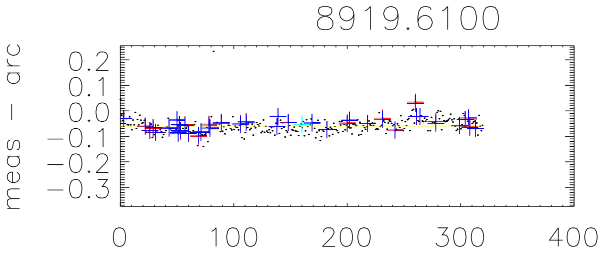

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

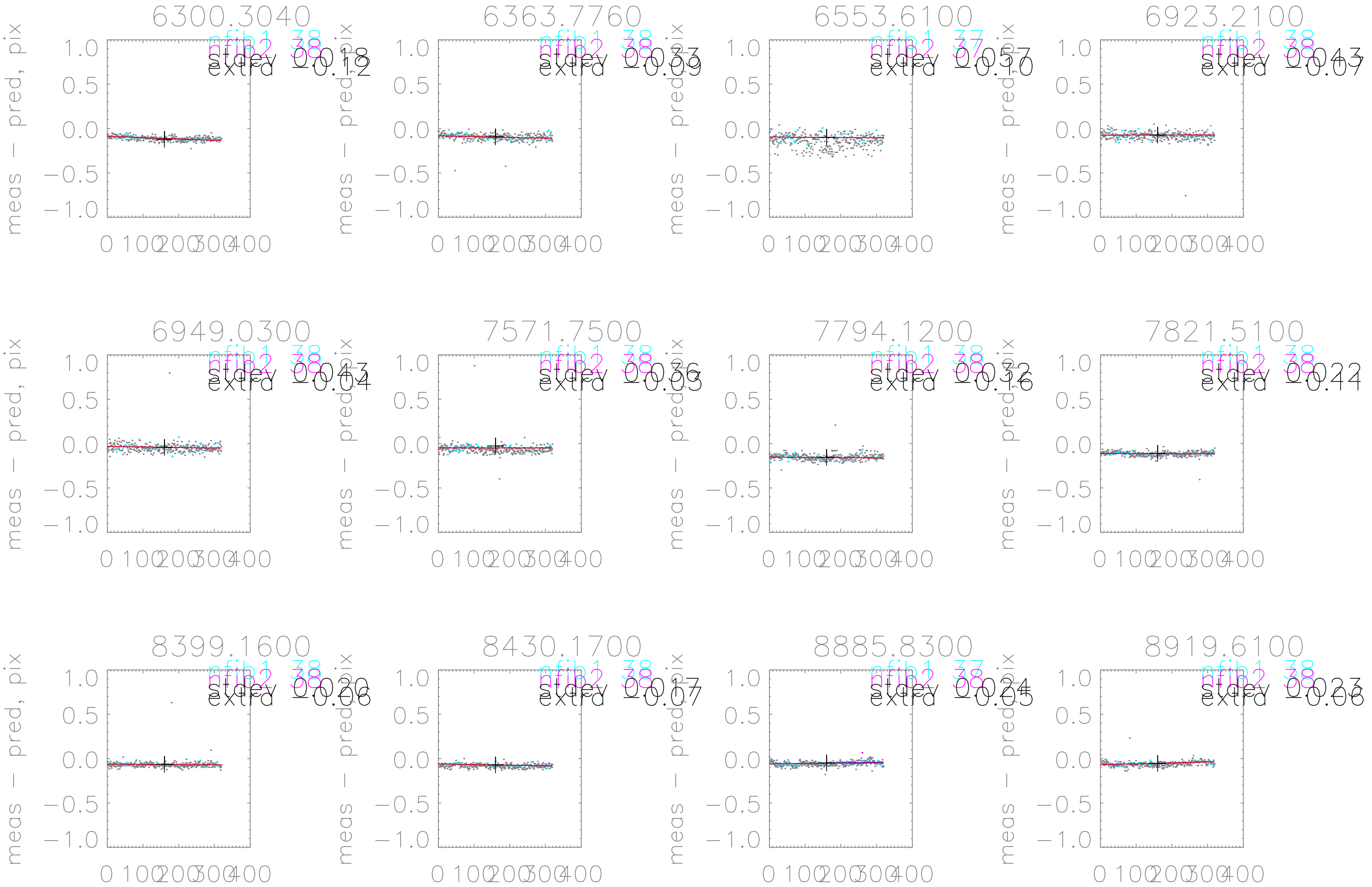

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

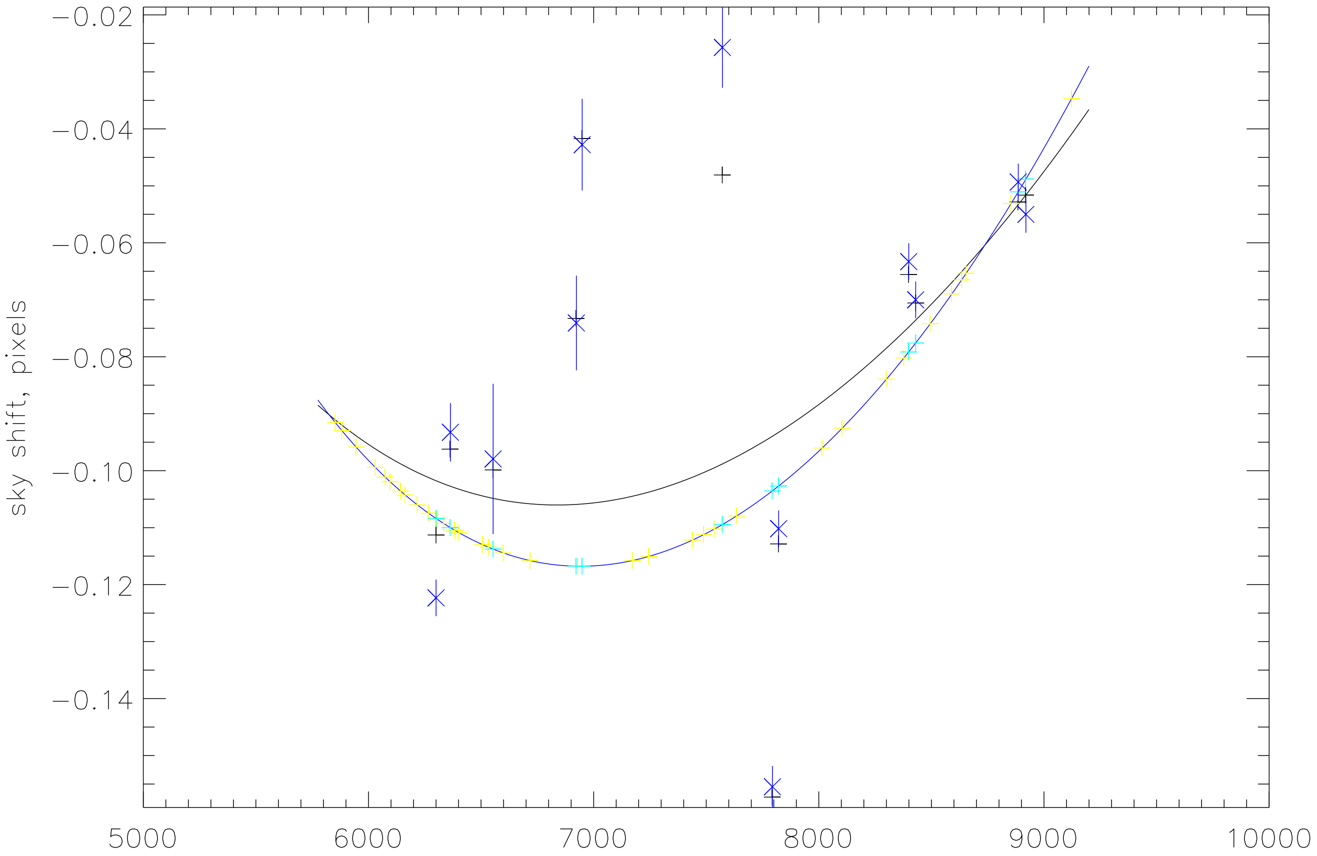

8399.1600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

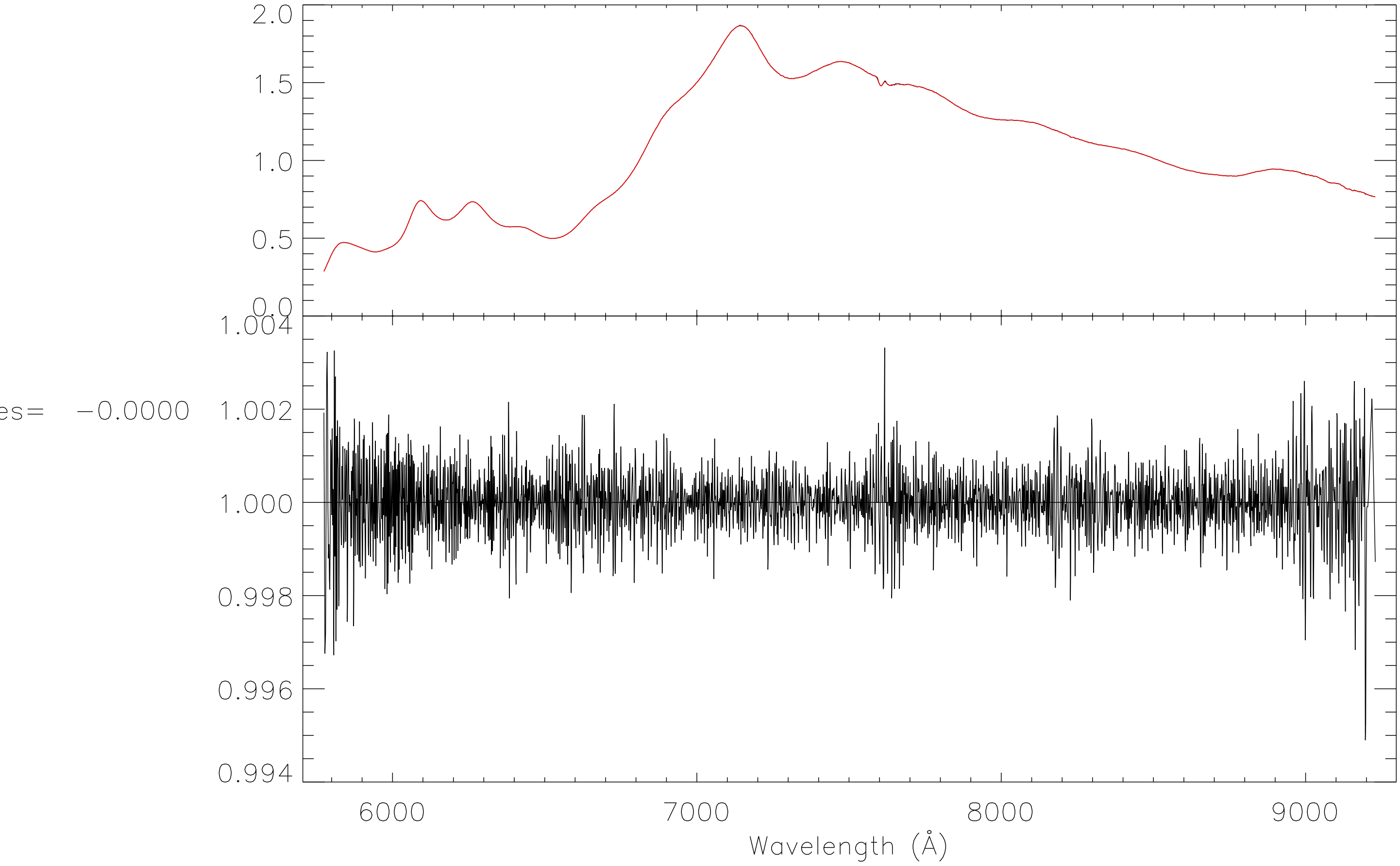

8430.1700
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400


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

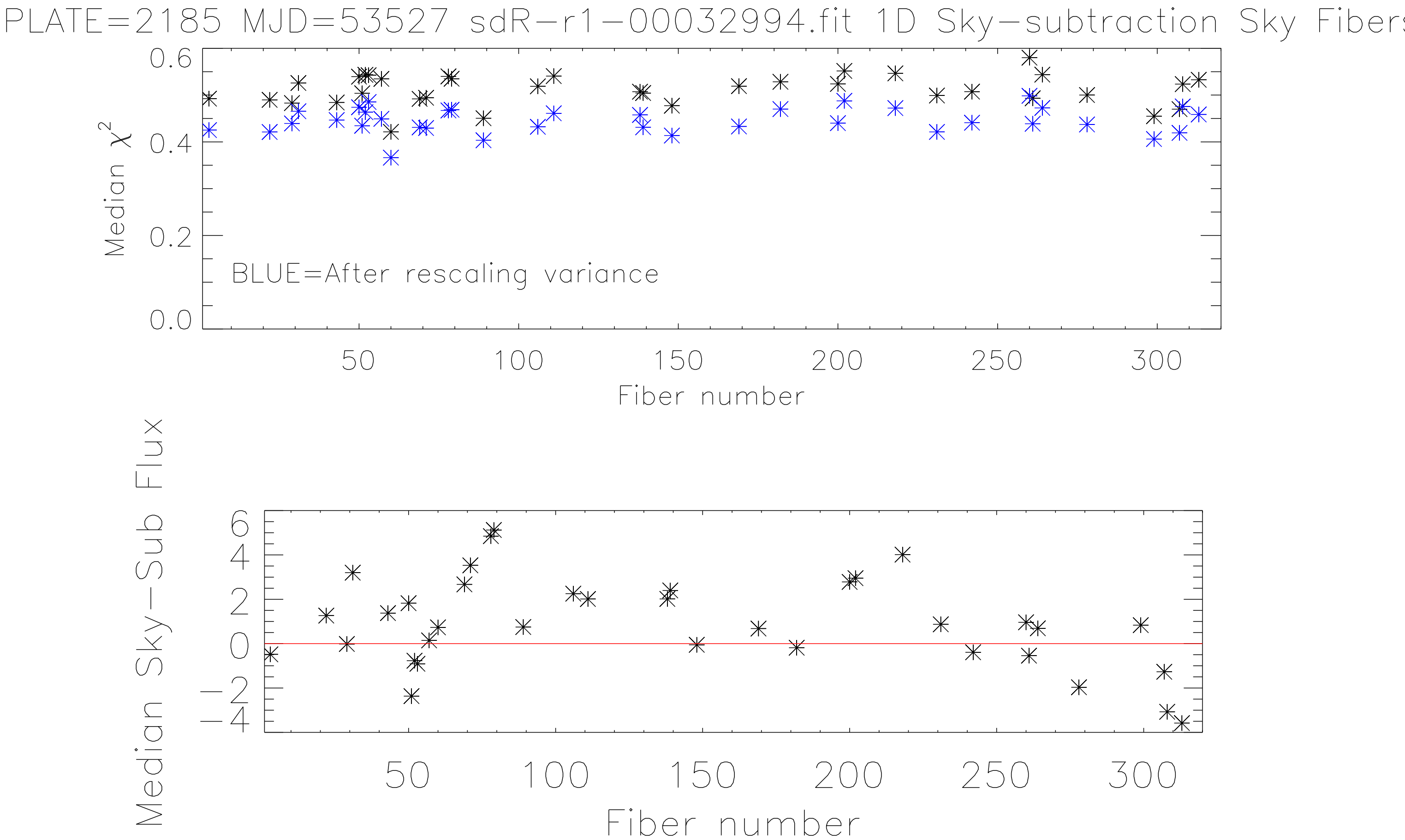

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

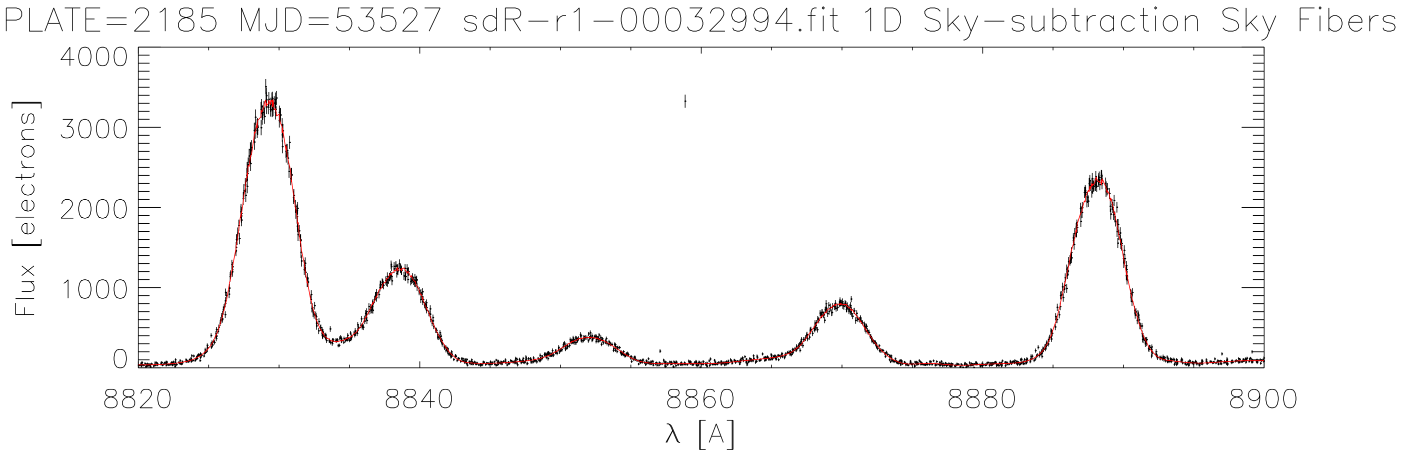

6300.3040
nfib1 38
nfib2 38
stdev 0.018
extrd −0.12
6363.7760
nfib1 38
nfib2 38
stdev 0.033
extrd −0.09
6553.6100
nfib1 37
nfib2 37
stdev 0.057
extrd −0.10
6923.2100
nfib1 38
nfib2 38
stdev 0.043
extrd −0.07
6949.0300
nfib1 38
nfib2 38
stdev 0.043
extrd −0.04
7571.7500
nfib1 38
nfib2 38
stdev 0.036
extrd −0.05
7794.1200
nfib1 38
nfib2 38
stdev 0.032
extrd −0.16
7821.5100
nfib1 38
nfib2 38
stdev 0.022
extrd −0.11
8399.1600
nfib1 38
nfib2 38
stdev 0.020
extrd −0.06
8430.1700
nfib1 38
nfib2 38
stdev 0.017
extrd −0.07
8885.8300
nfib1 37
nfib2 38
stdev 0.024
extrd −0.05
8919.6100
nfib1 38
nfib2 38
stdev 0.023
extrd −0.06
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

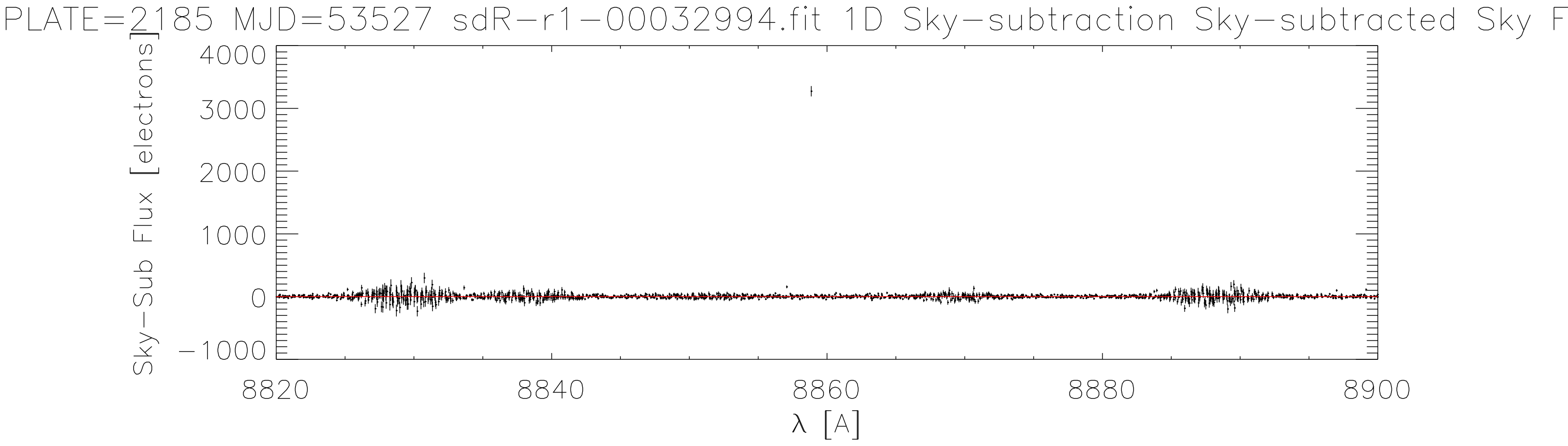

sky shift, pixels
−0.02
−0.04
−0.06
−0.08
−0.10
−0.12
−0.14
5000
6000
7000
8000
9000
10000



PLATE=2185 MJD=53527 Smooth superflat for sdR-r1-00032994.fit

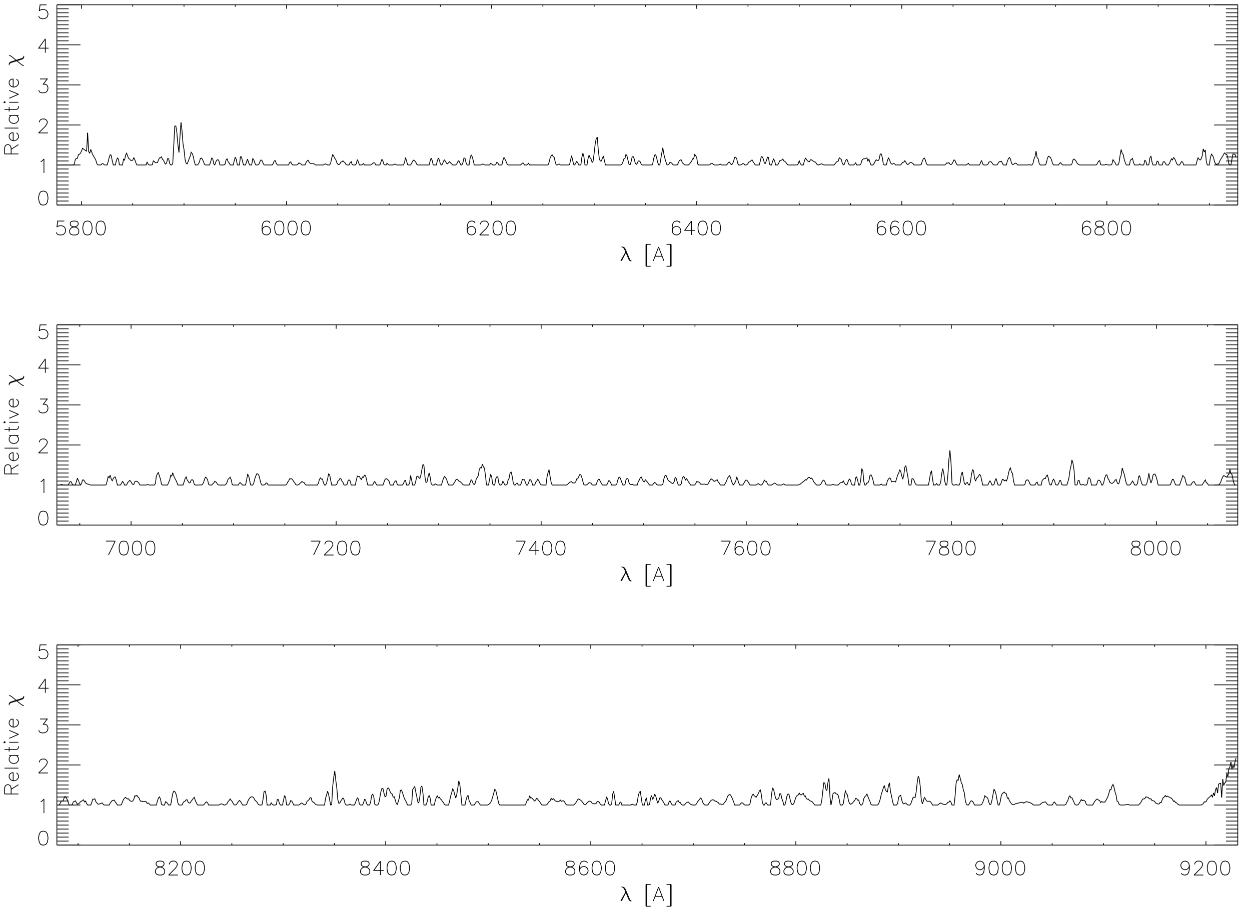

PLATE=2185 MJD=53527 sdR-r1-00032994.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

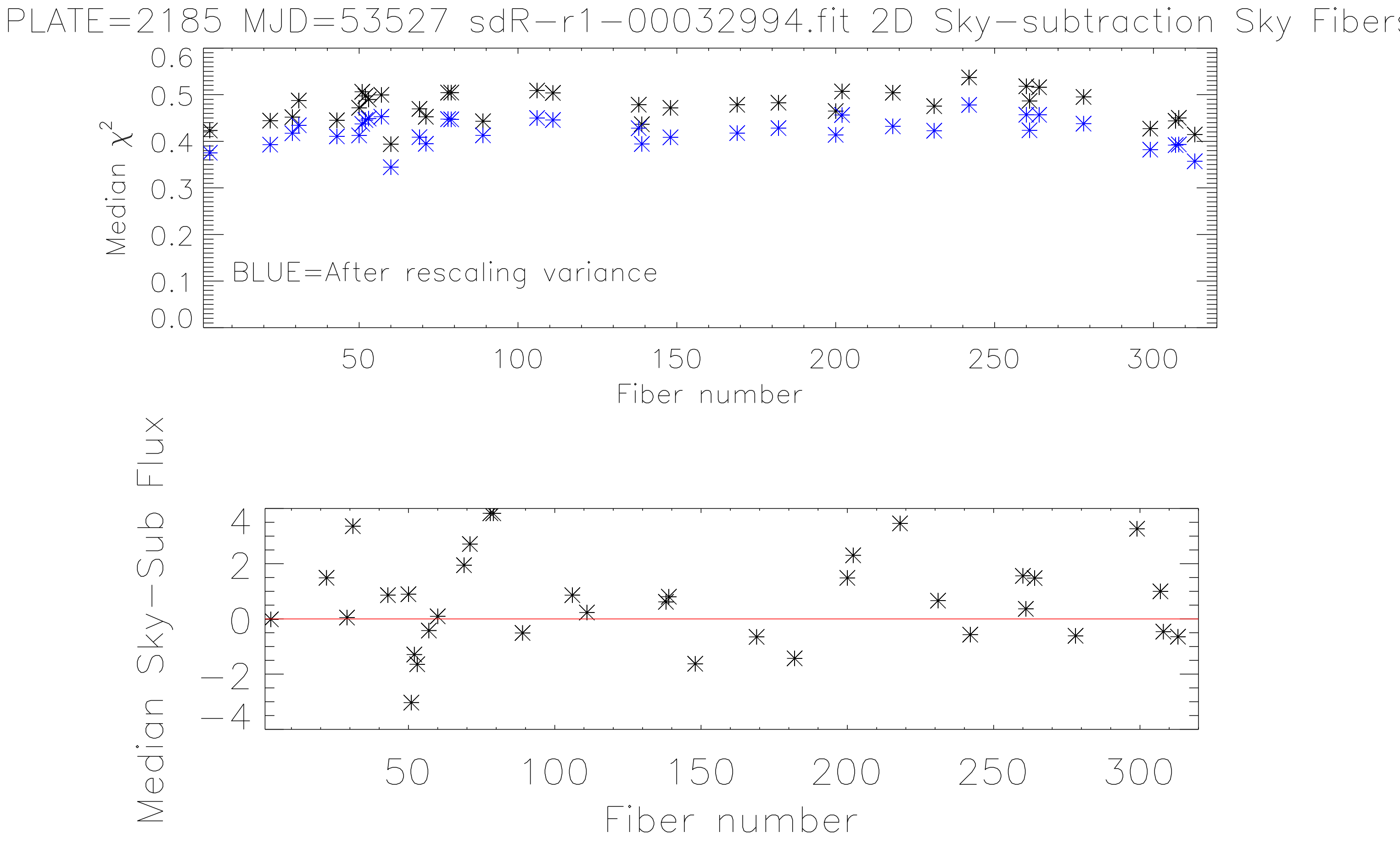

PLATE=2185 MJD=53527 sdR-r1-00032994.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

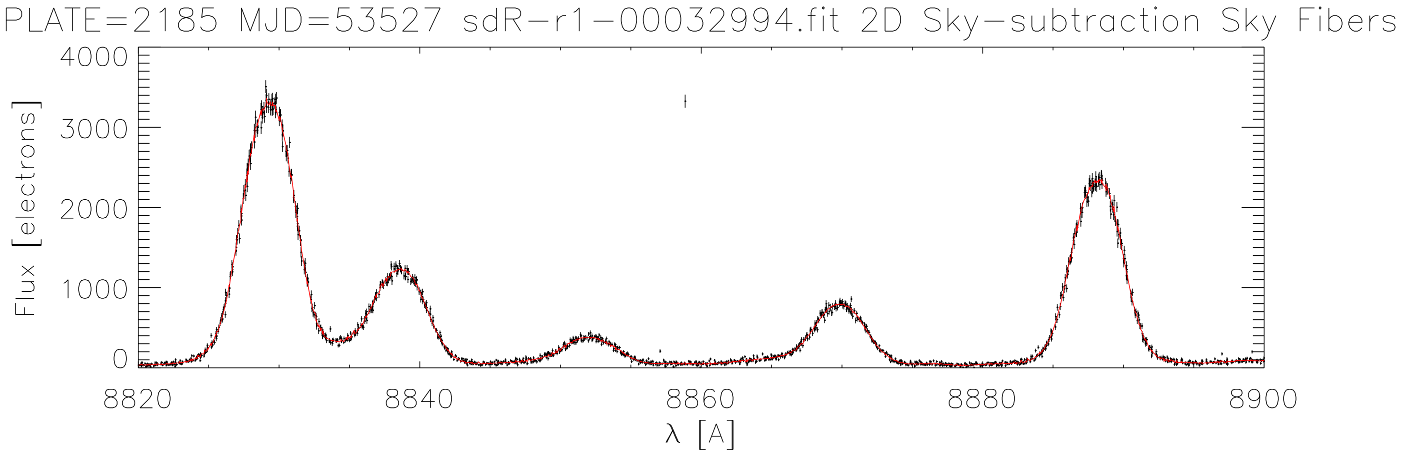

PLATE=2185 MJD=53527 sdR-r1-00032994.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

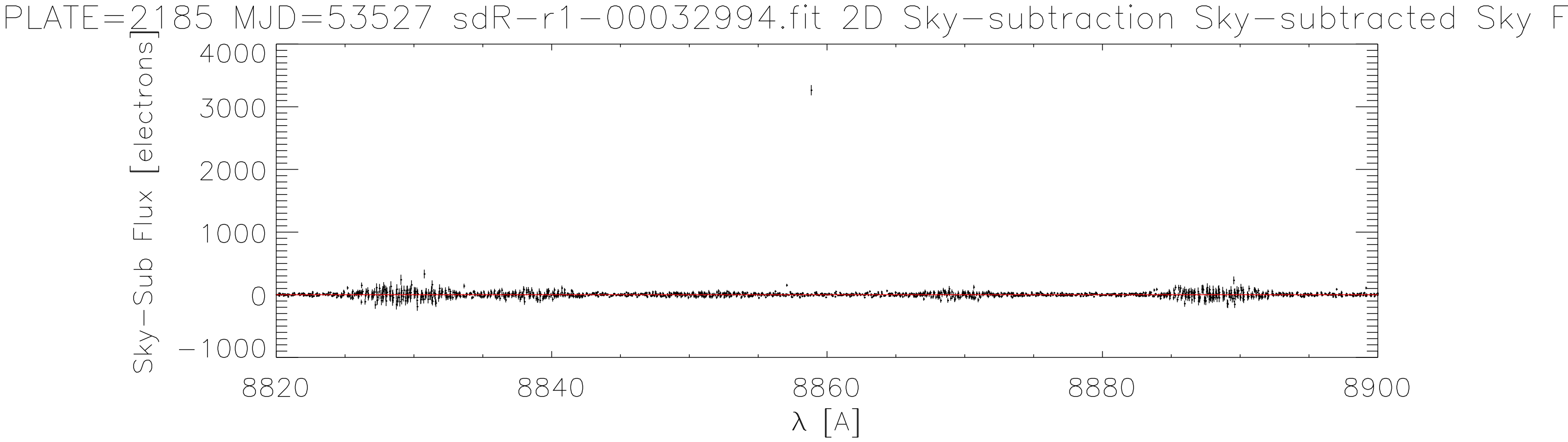
Number of sky fibers = 36

PLATE=2185 MJD=53527 sdR-r1-00032994.fit 1D Sky-subtraction Rescaled Errors



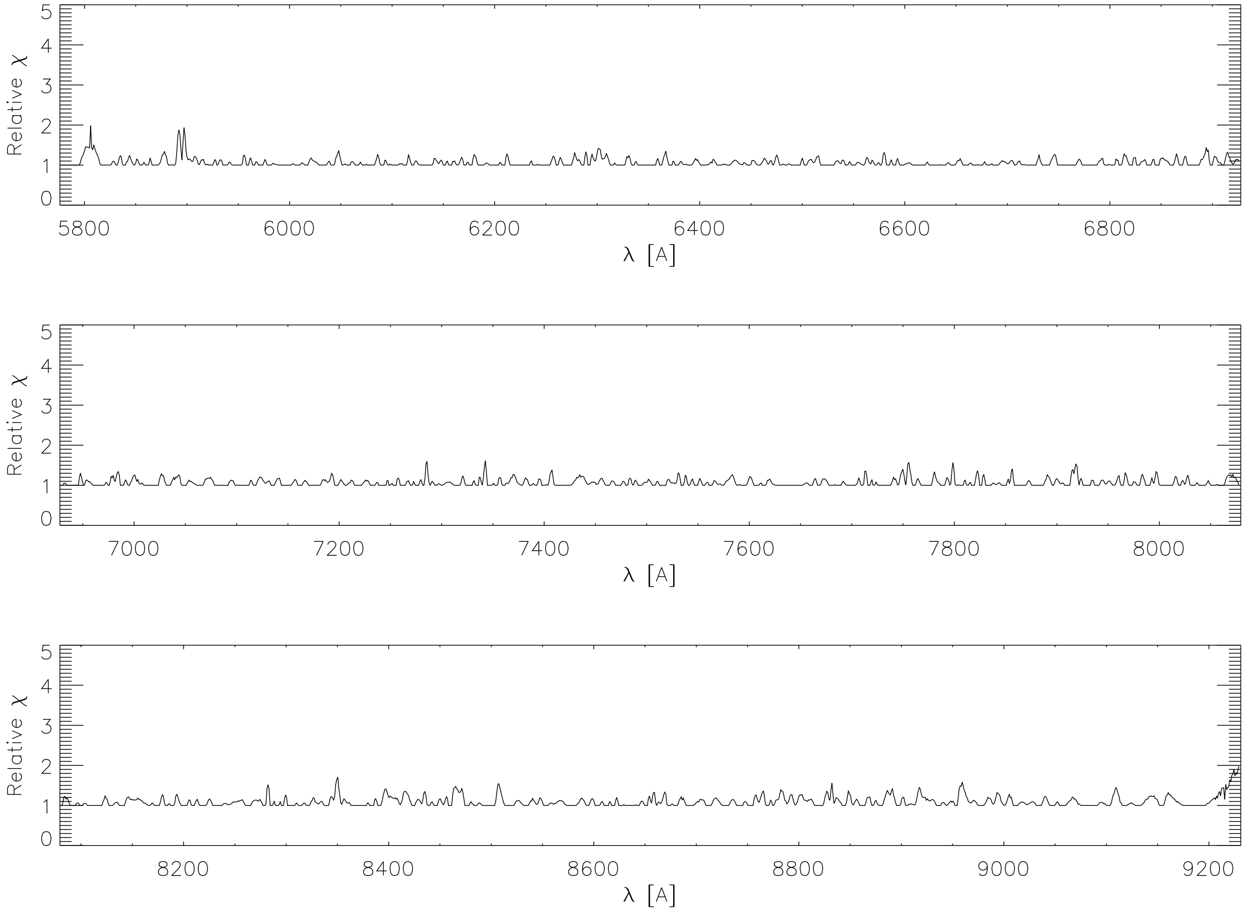

PLATE=2185 MJD=53527 sdR-r1-00032994.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.6
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
4
2
0
−2
−4
50
100
150
200
250
300
Fiber number

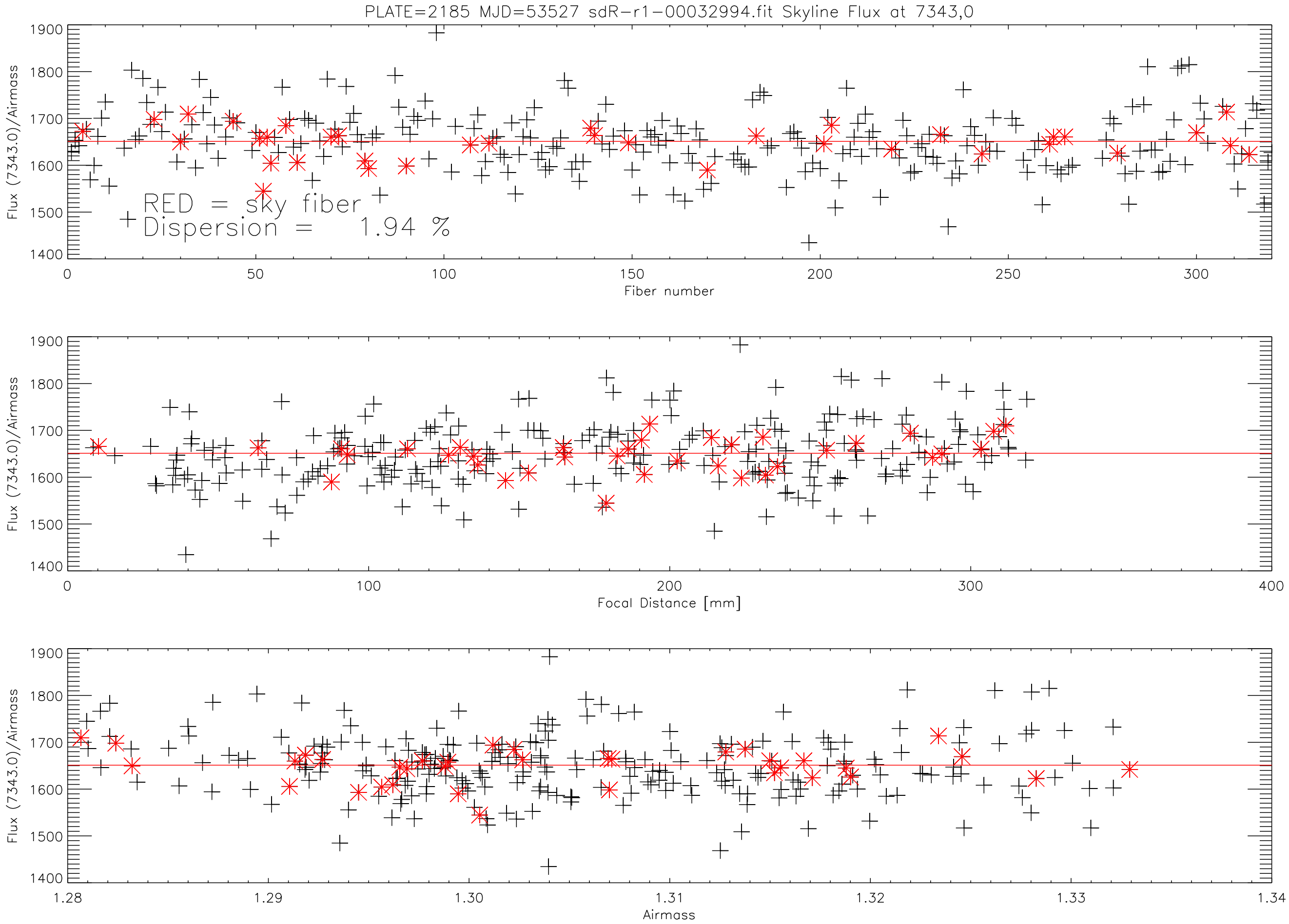

PLATE=2185 MJD=53527 sdR-r1-00032994.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

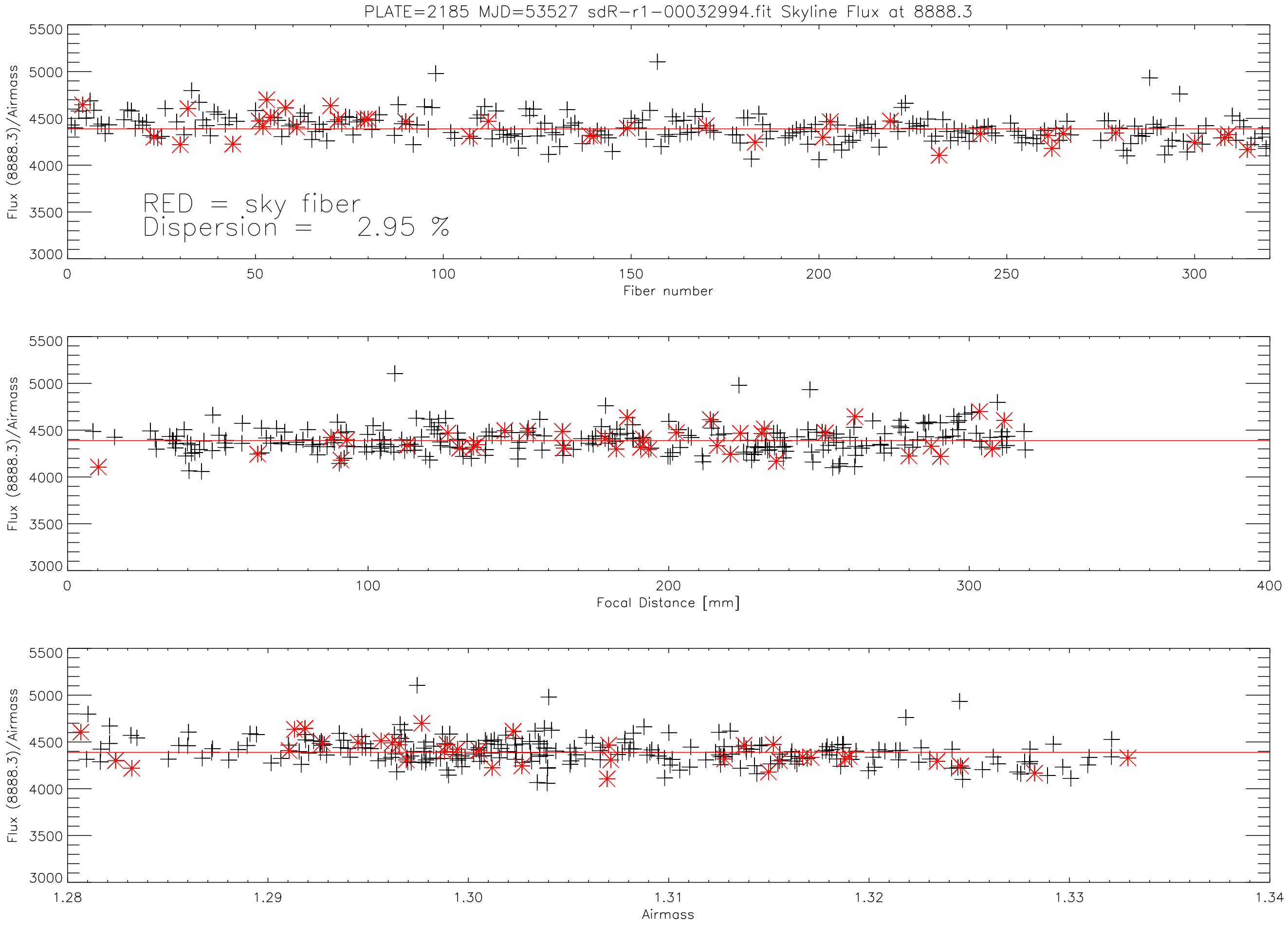

PLATE=2185 MJD=53527 sdR-r1-00032994.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

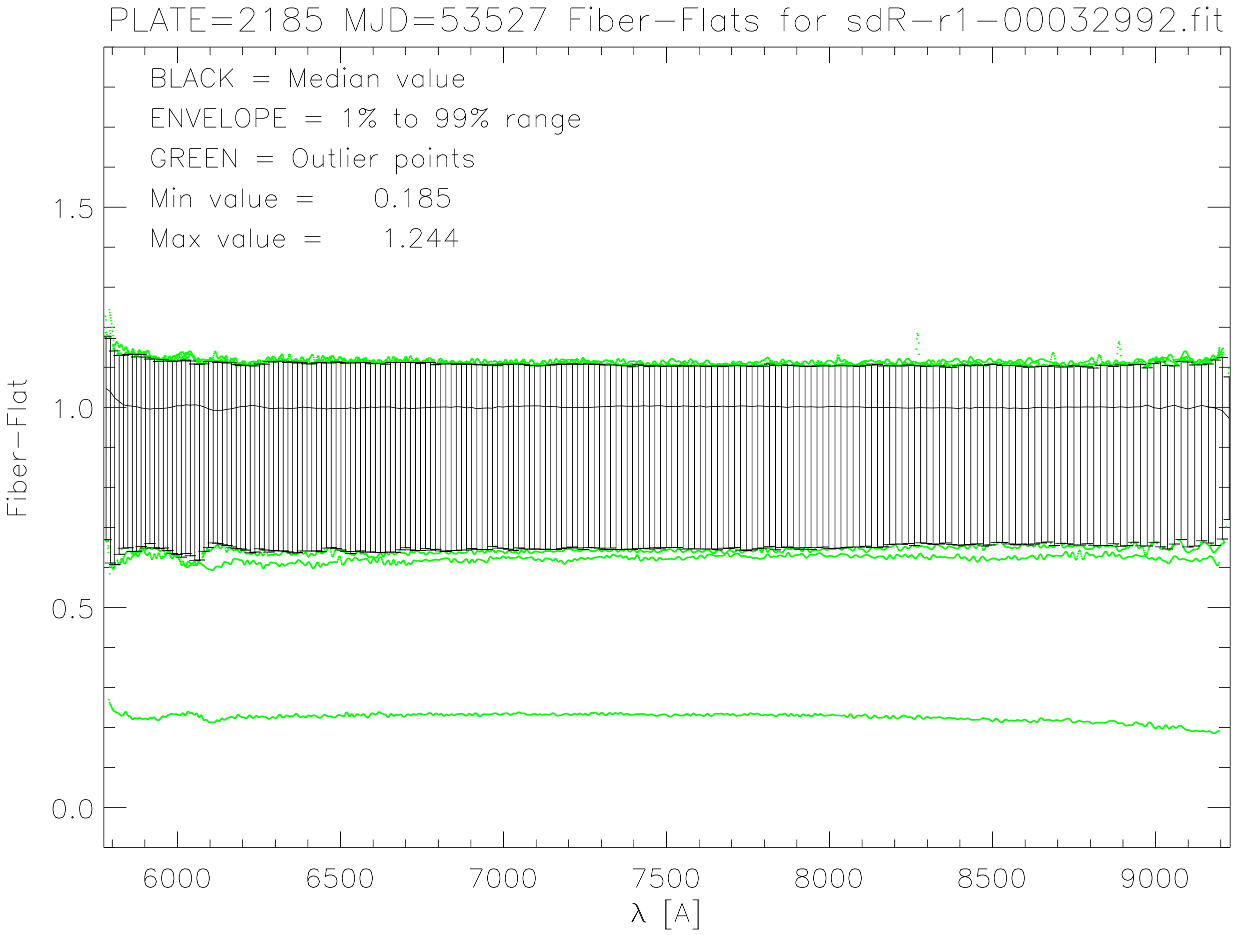
Number of sky fibers = 36

PLATE=2185 MJD=53527 sdR-r1-00032994.fit 2D Sky-subtraction Rescaled Errors

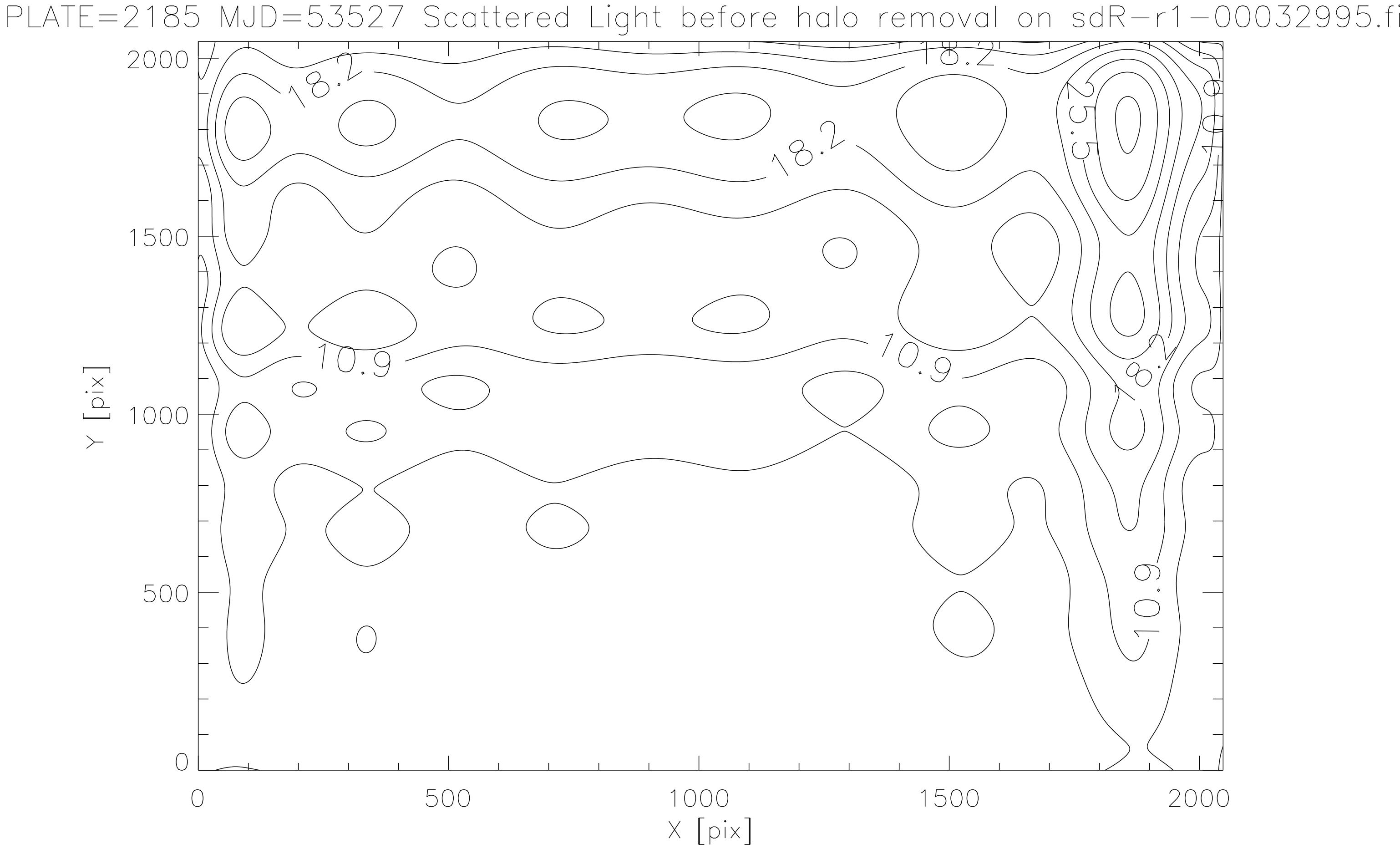


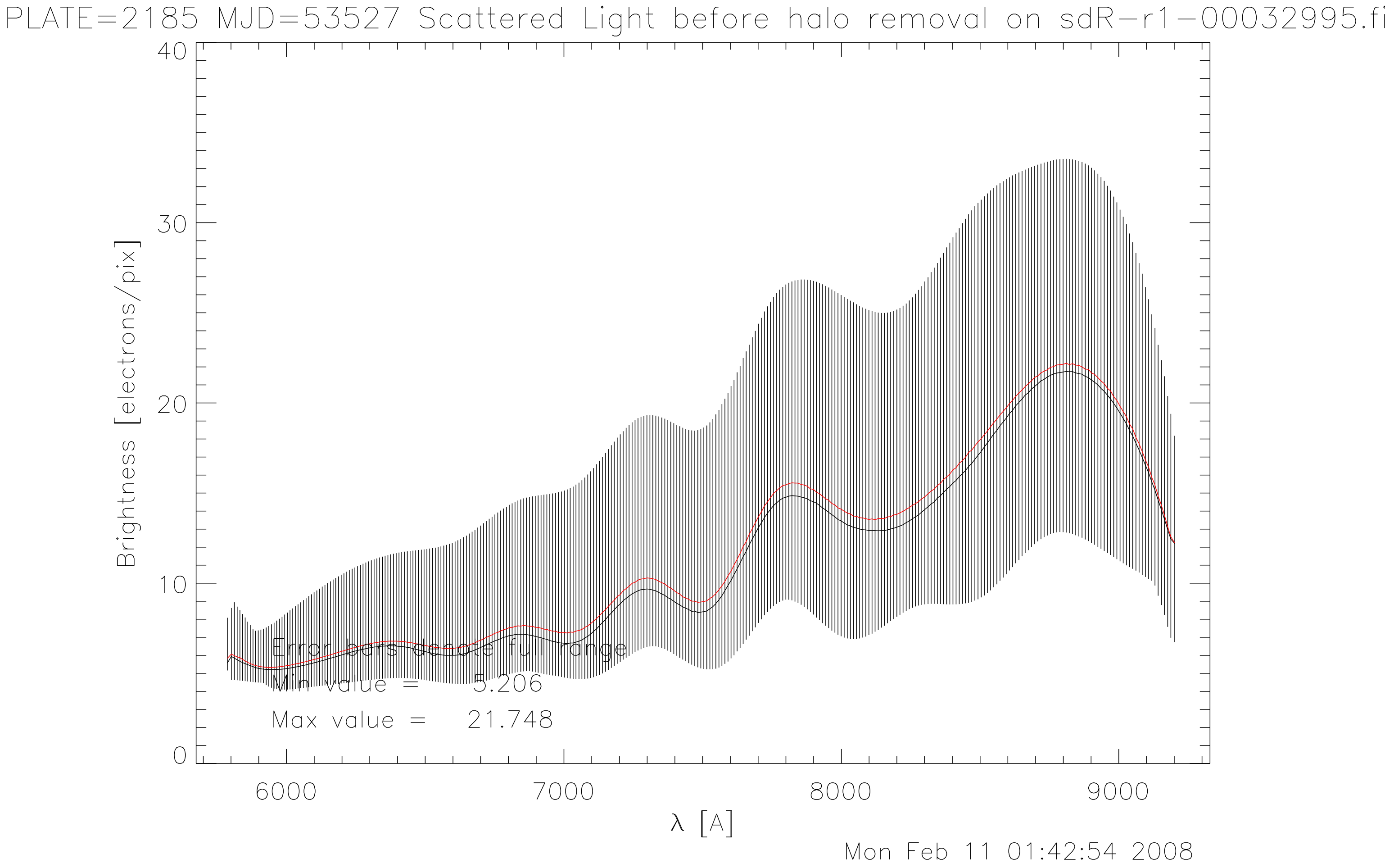

PLATE=2185 MJD=53527 sdR-r1-00032994.fit Skyline Flux at 7343,0
RED = sky fiber
Dispersion = 1.94 %
Flux (7343.0)/Airmass
1900
1800
1700
1600
1500
1400
0
50
100
150
200
250
300
Fiber number
Flux (7343.0)/Airmass
1900
1800
1700
1600
1500
1400
0
100
200
300
400
Focal Distance [mm]
Flux (7343.0)/Airmass
1900
1800
1700
1600
1500
1400
1.28
1.29
1.30
1.31
1.32
1.33
1.34
Airmass

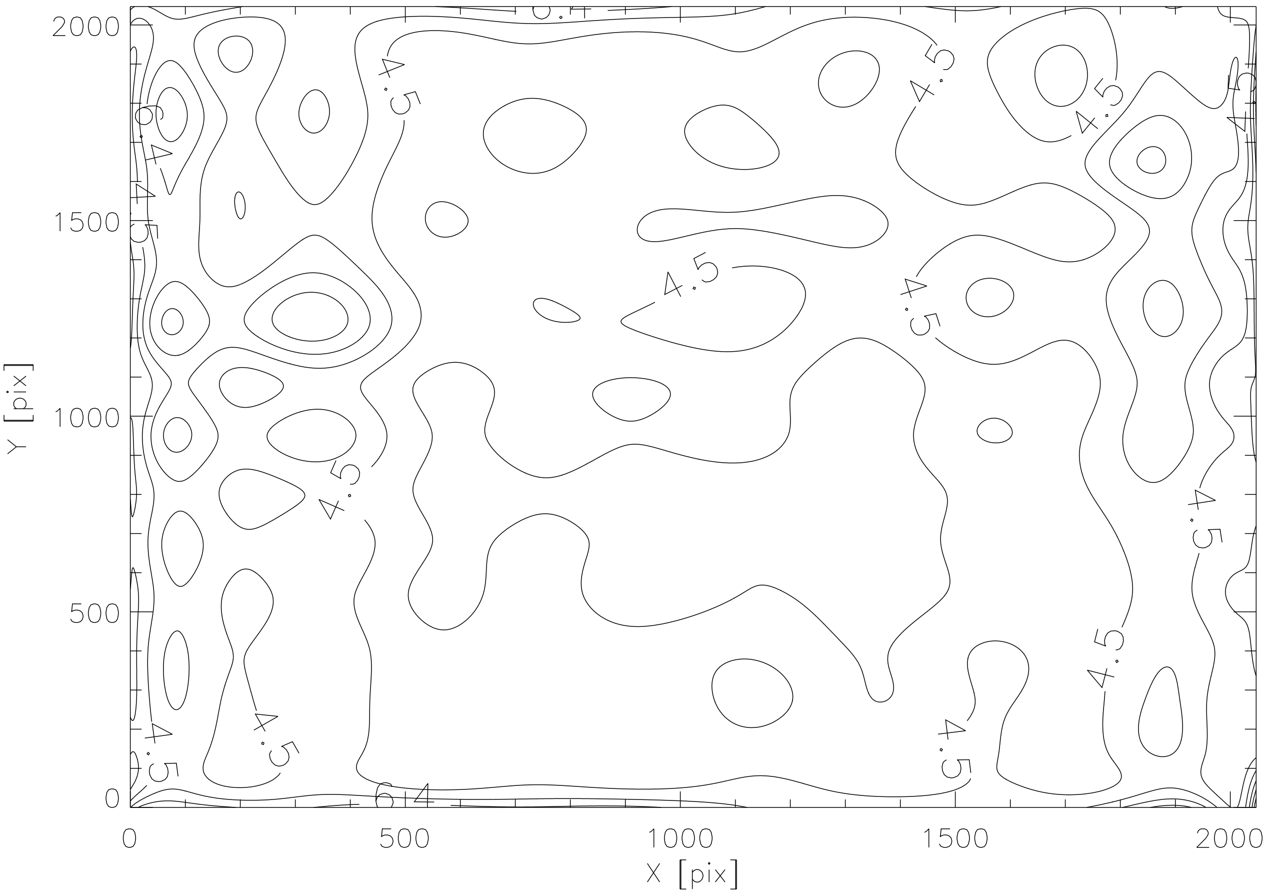

PLATE=2185 MJD=53527 sdR−r1−00032994.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
5500
5000
4500
4000
3500
3000
RED = sky fiber
Dispersion = 2.95 %
0
50
100
150
200
250
300
Fiber number
Flux (8888.3)/Airmass
5500
5000
4500
4000
3500
3000
0
100
200
300
400
Focal Distance [mm]
Flux (8888.3)/Airmass
5500
5000
4500
4000
3500
3000
1.28
1.29
1.30
1.31
1.32
1.33
1.34
Airmass



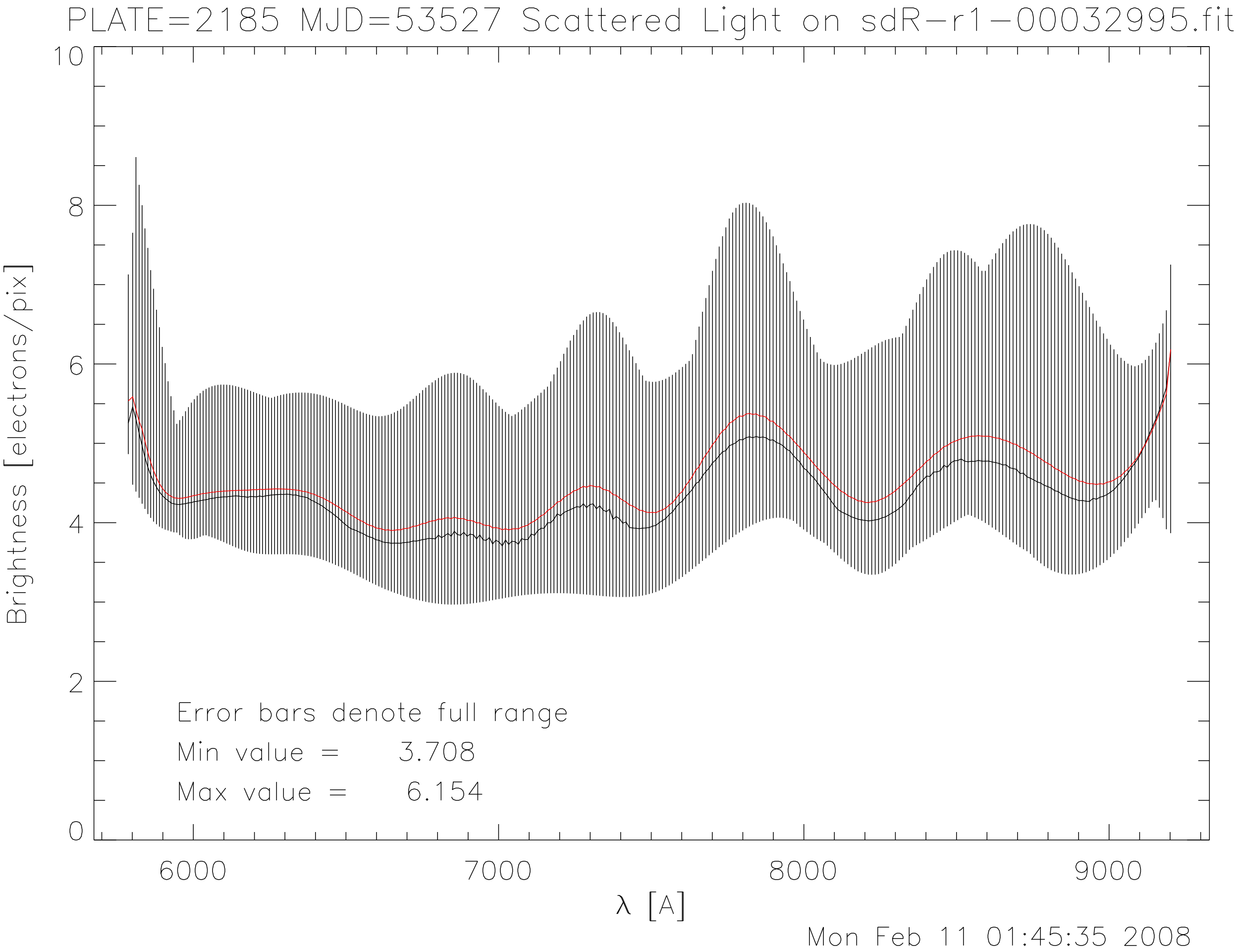
Mon Feb 11 01:42:09 2008

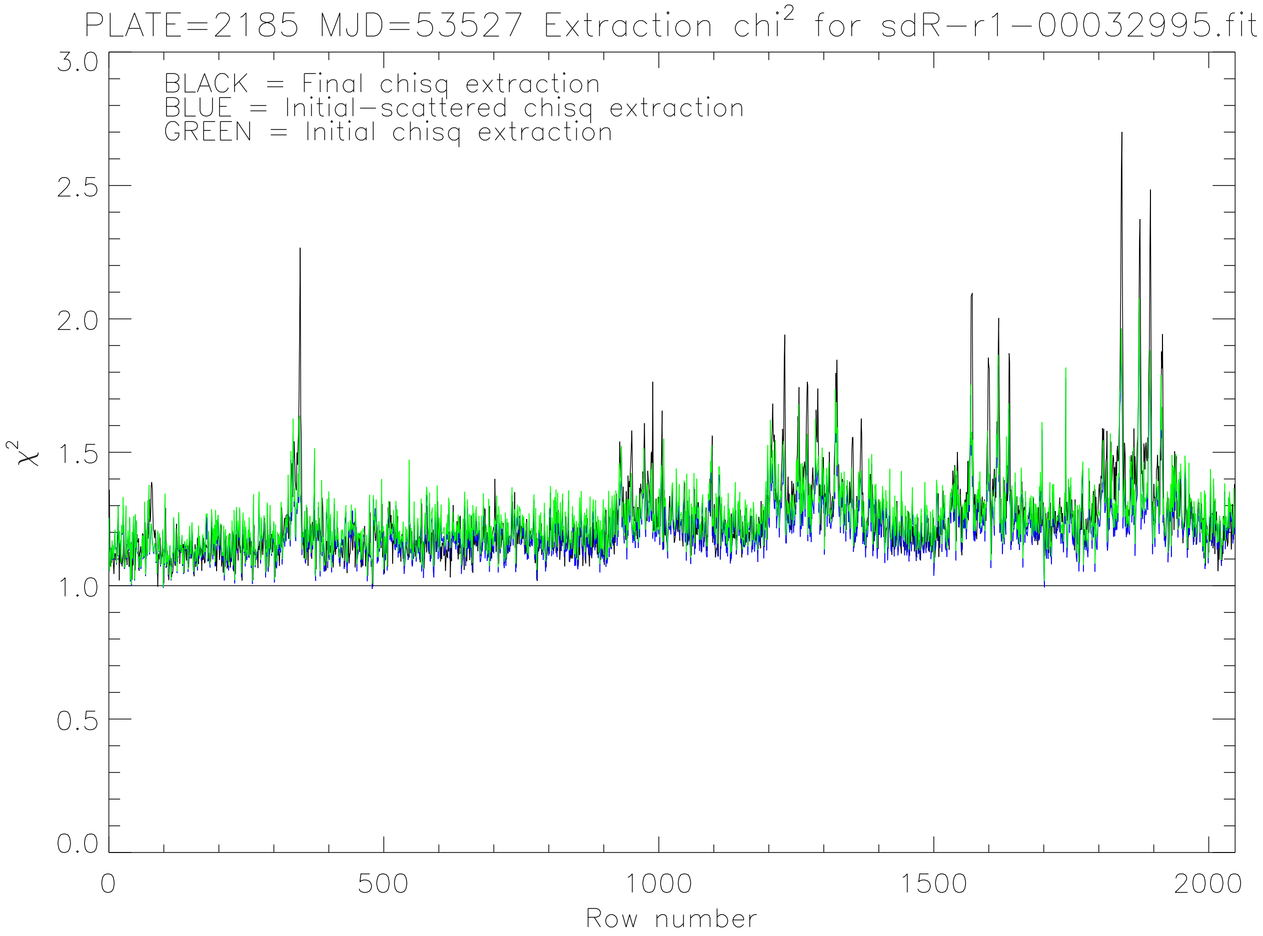

PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-r1-00032995.fi
Y [pix]
X [pix]
0
500
1000
1500
2000
0
500
1000
1500
2000
18.2
18.2
18.2
25.5
10.9
10.9
18.2
10.9

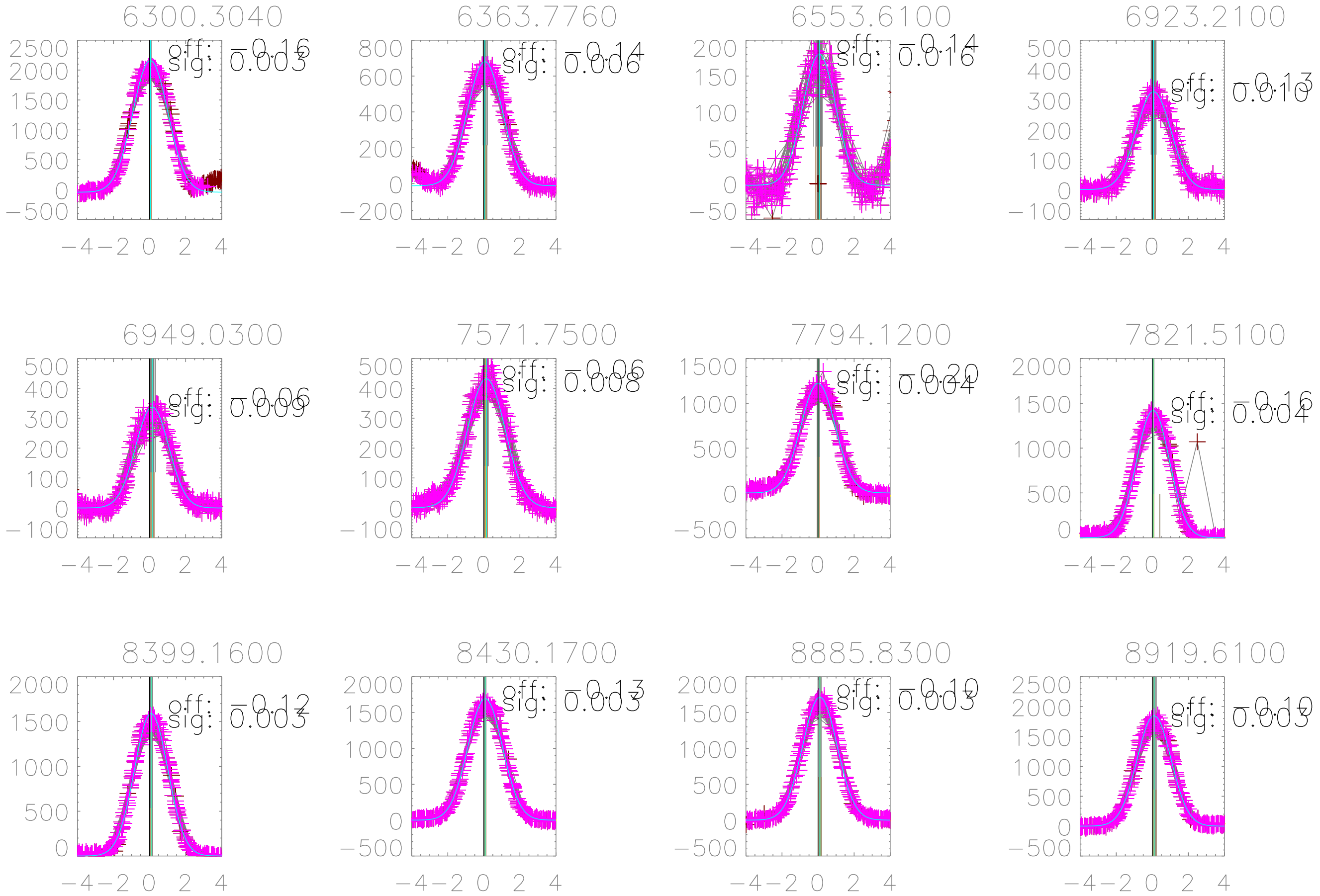

PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-r1-00032995.fi
Brightness [electrons/pix]
0
10
20
30
40
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value =   5.206
Max value =   21.748
Mon Feb 11 01:42:54 2008

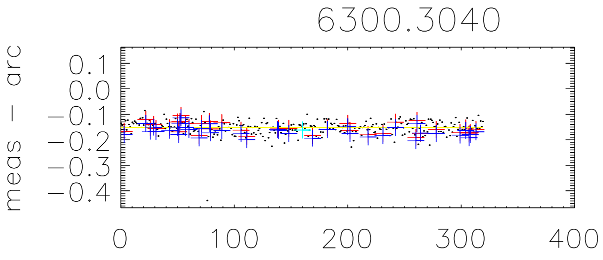


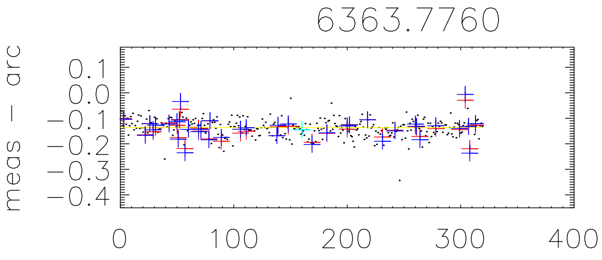
PLATE=2185 MJD=53527 Scattered Light on sdR-r1-00032995.fit

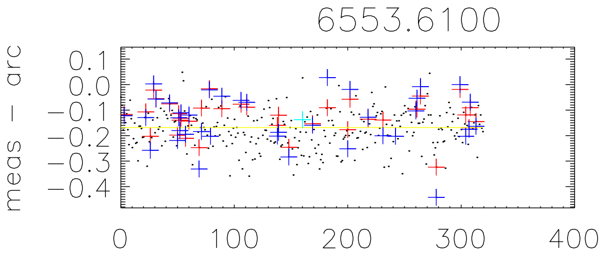

PLATE=2185 MJD=53527 Scattered Light on sdR-r1-00032995.fit
Brightness [electrons/pix]
0
2
4
6
8
10
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 3.708
Max value = 6.154
Mon Feb 11 01:45:35 2008

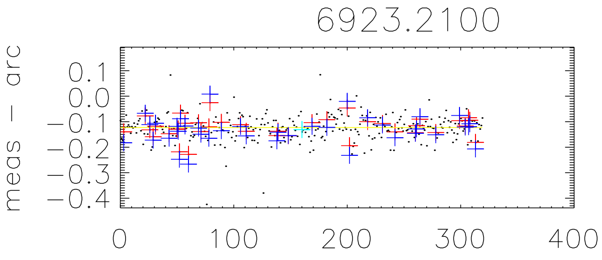

PLATE=2185 MJD=53527 Extraction chi^2 for sdR-r1-00032995.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
3.0
2.5
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

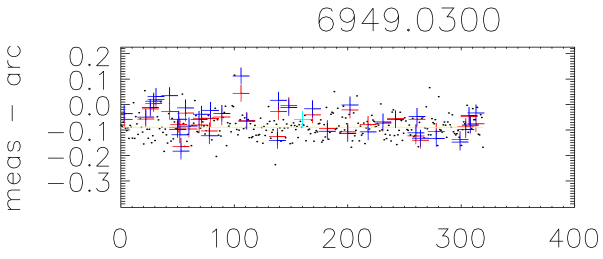

6300.3040
off: −0.16
sig: 0.003
6363.7760
off: −0.14
sig: 0.006
6553.6100
off: −0.14
sig: 0.016
6923.2100
off: −0.13
sig: 0.010
6949.0300
off: −0.06
sig: 0.009
7571.7500
off: −0.06
sig: 0.008
7794.1200
off: −0.20
sig: 0.004
7821.5100
off: −0.16
sig: 0.004
8399.1600
off: −0.12
sig: 0.003
8430.1700
off: −0.13
sig: 0.003
8885.8300
off: −0.10
sig: 0.003
8919.6100
off: −0.10
sig: 0.003
−4 −2 0 2 4

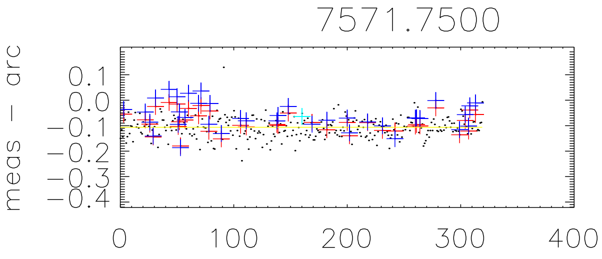

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

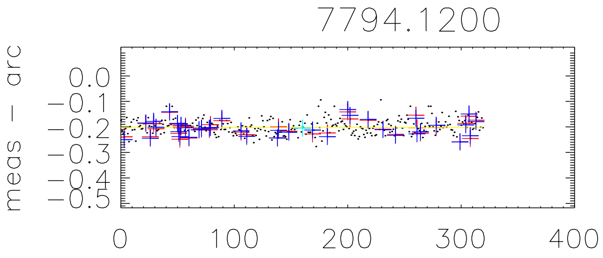

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

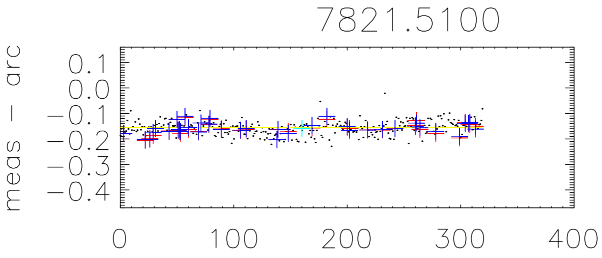

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

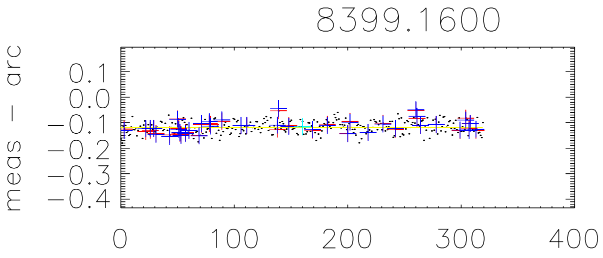

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

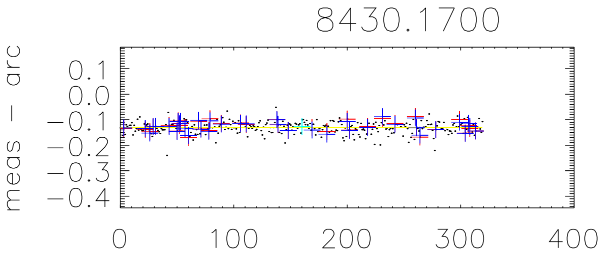

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

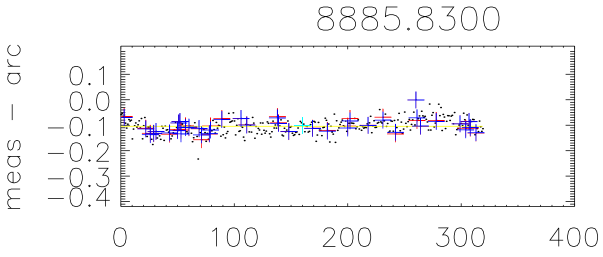

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

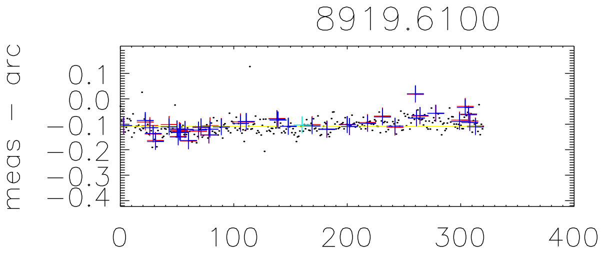

7794.1200

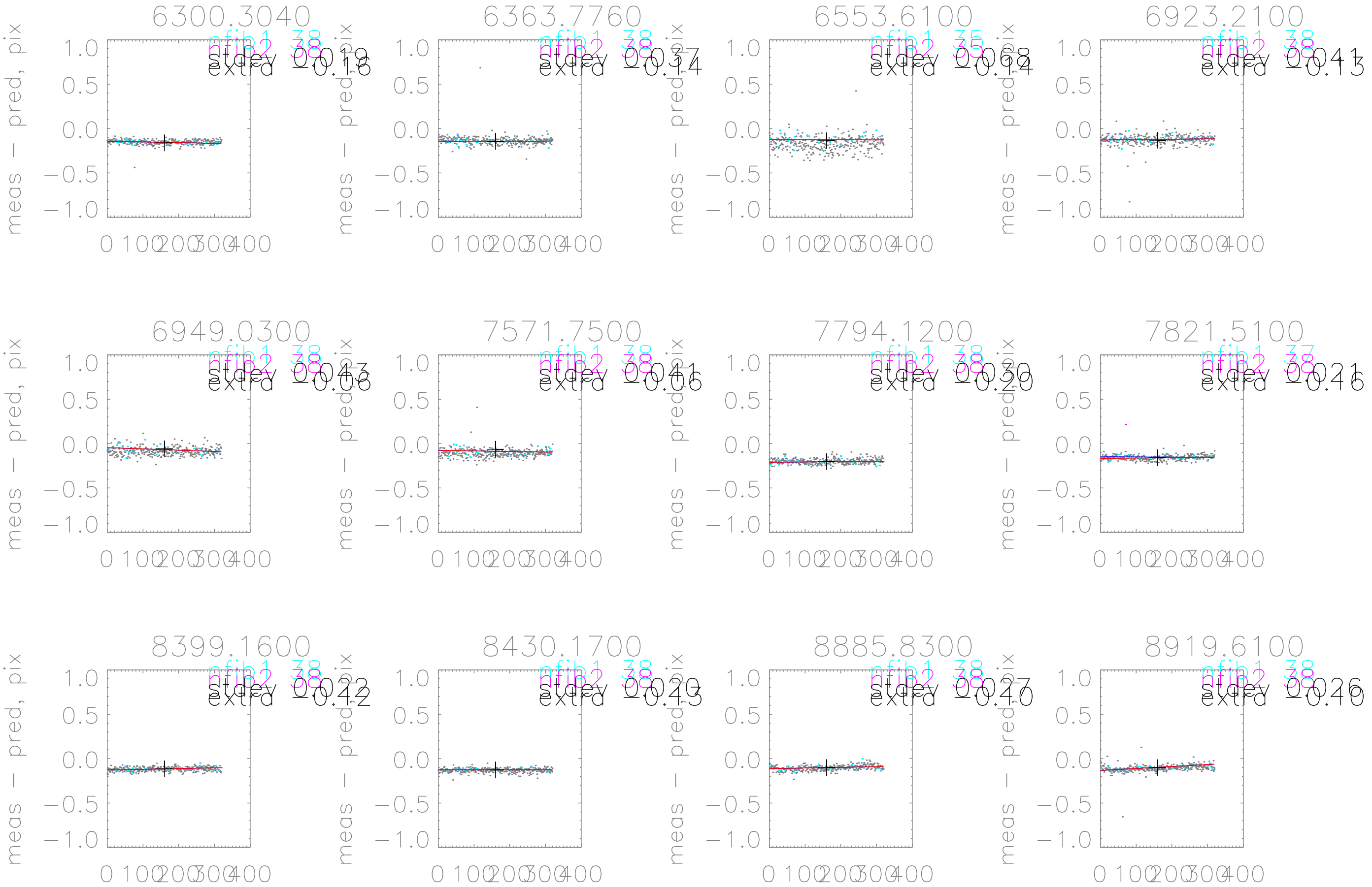

7821.5100

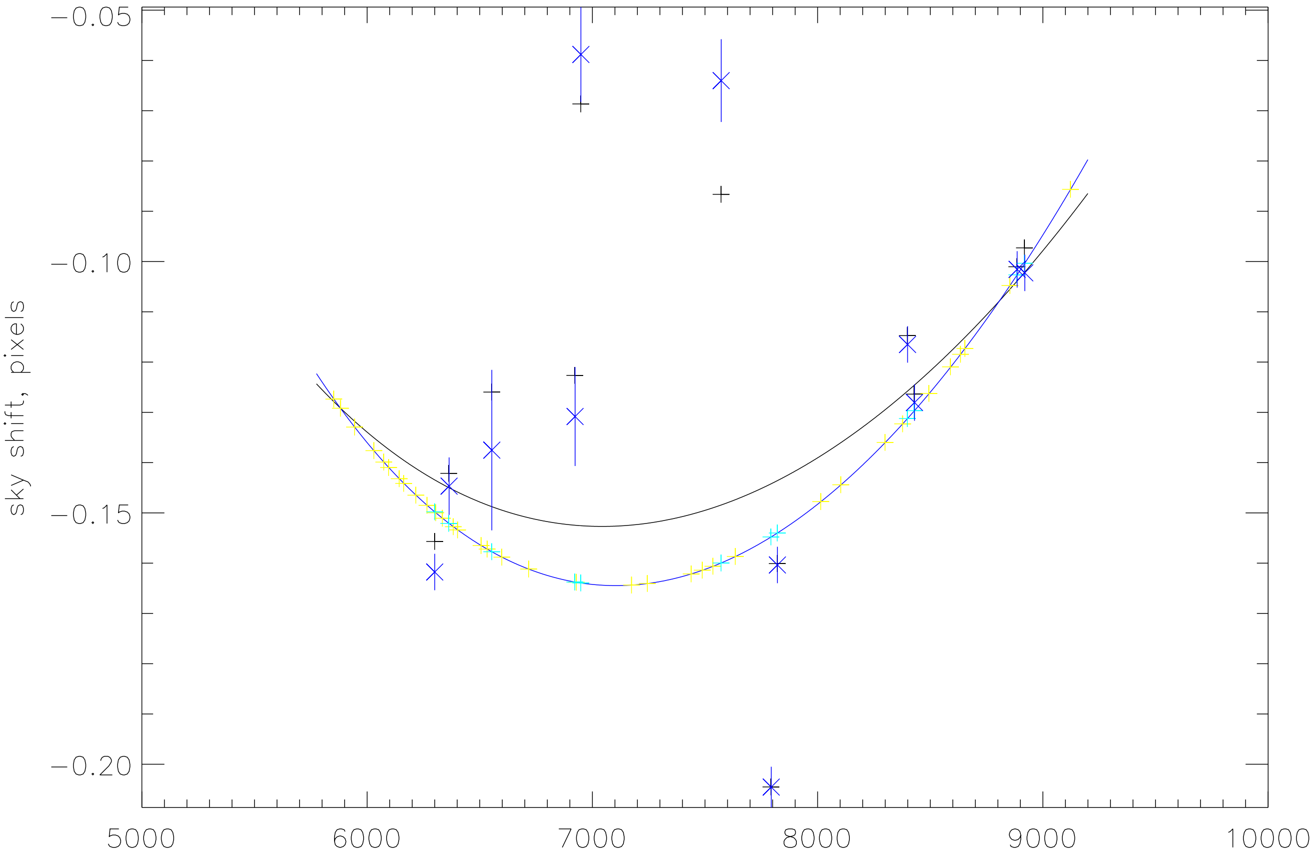

8399.1600


8430.1700

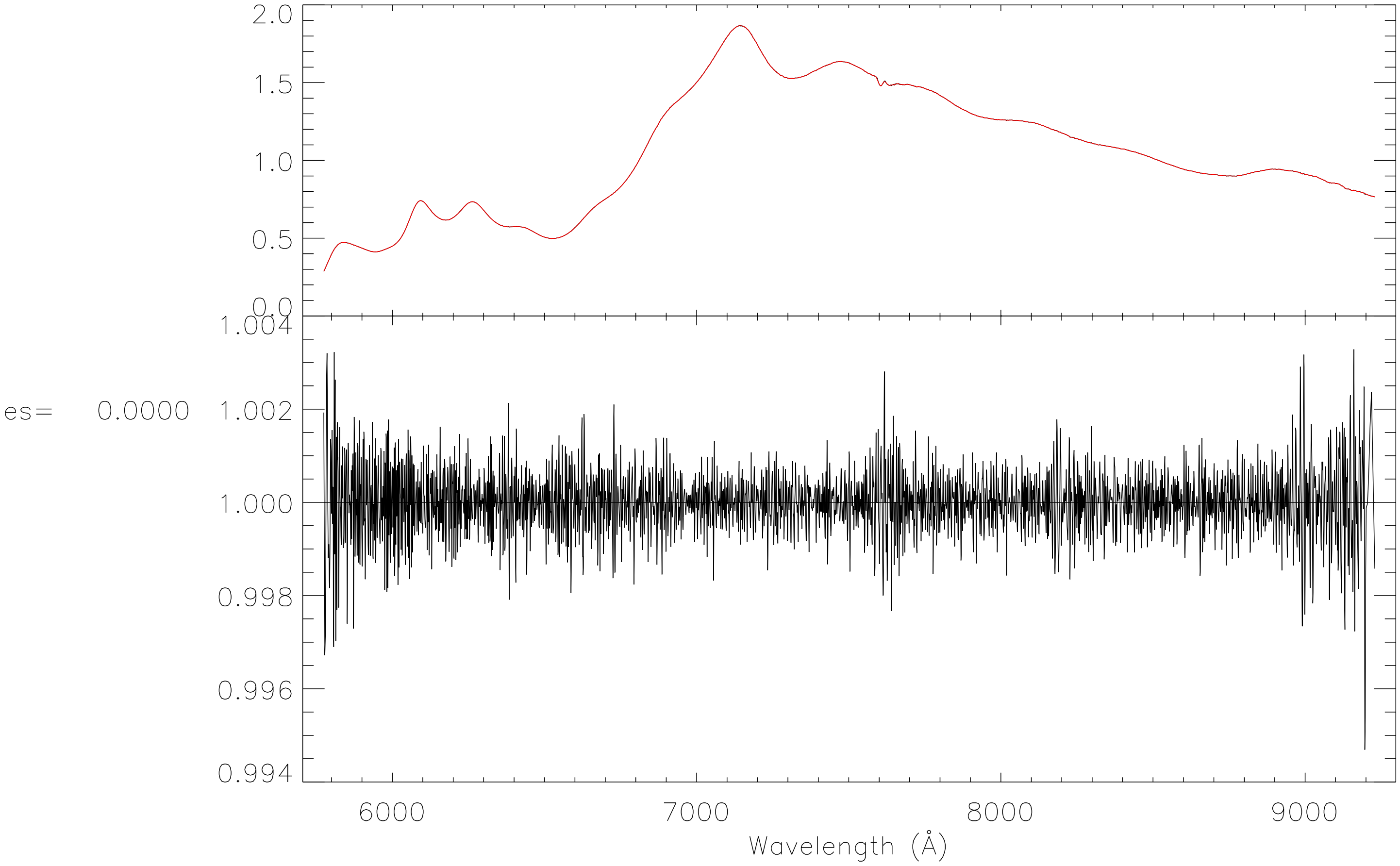

8885.8300

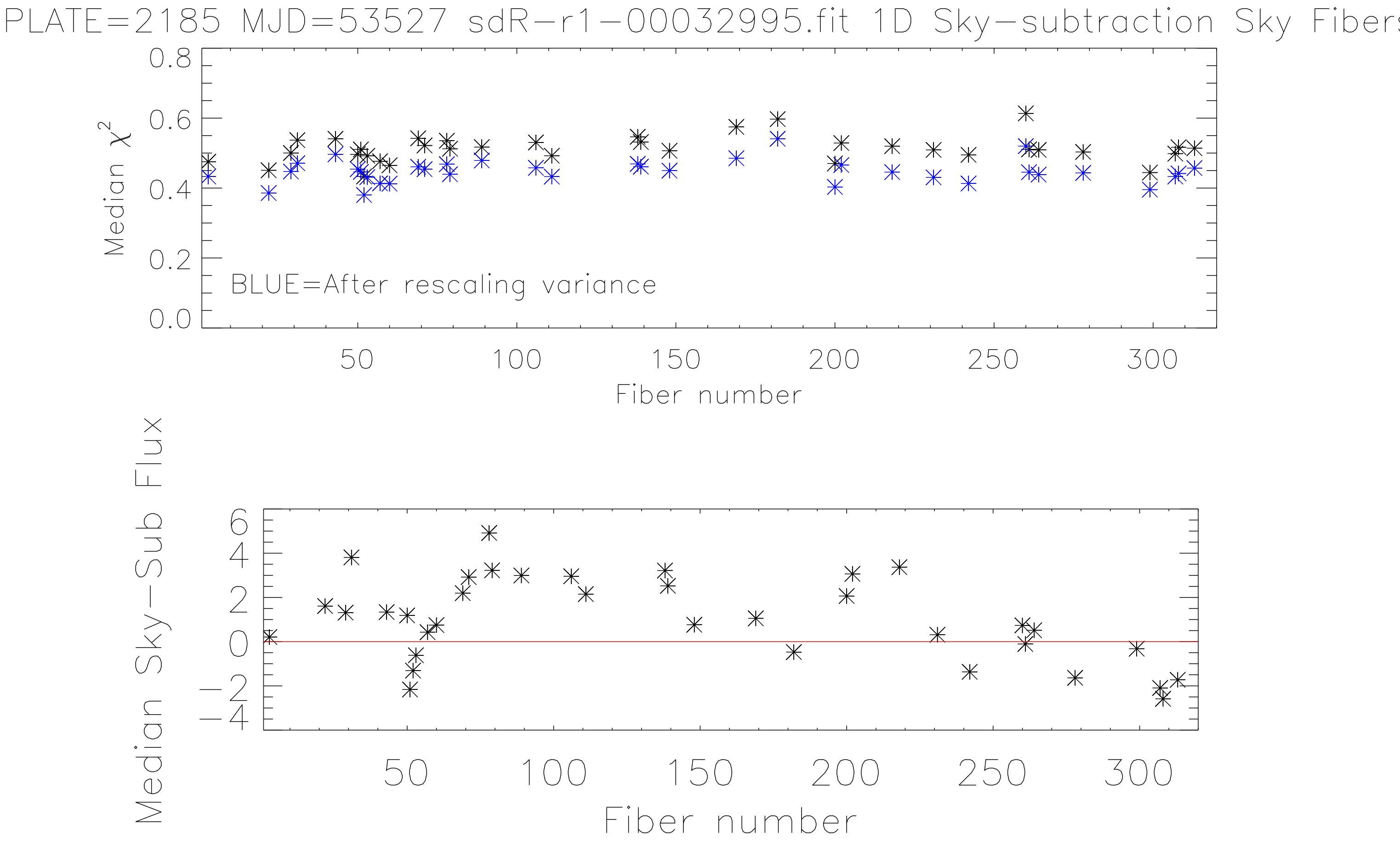

8919.6100

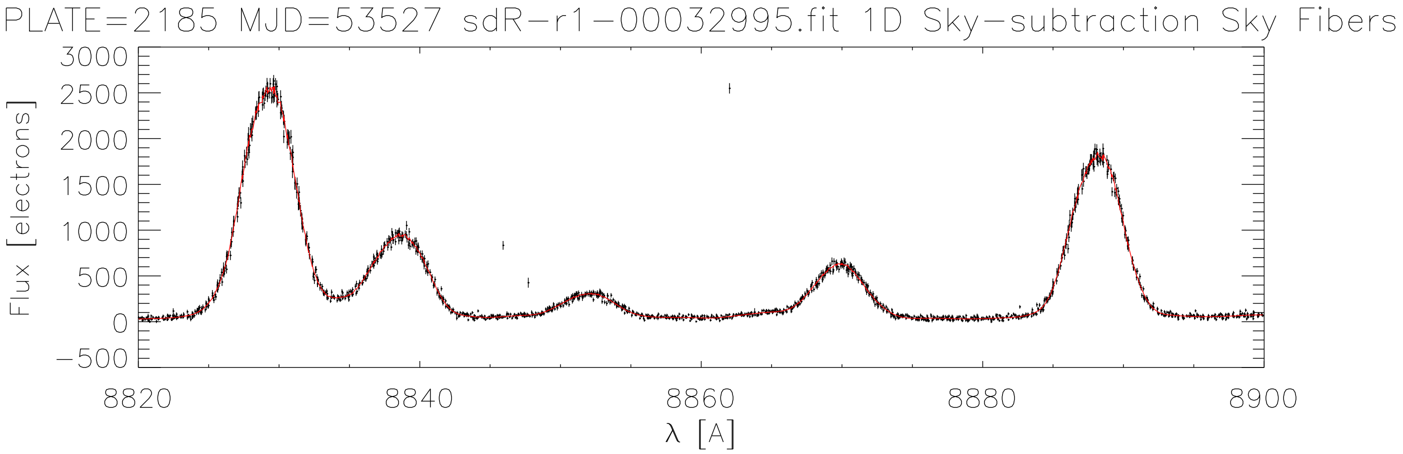

6300.3040
nfib1 38
nfib2 38
stdev 0.019
extrd −0.16
6363.7760
nfib1 38
nfib2 38
stdev 0.037
extrd −0.14
6553.6100
nfib1 35
nfib2 38
stdev 0.068
extrd −0.14
6923.2100
nfib1 38
nfib2 38
stdev 0.041
extrd −0.13
6949.0300
nfib1 38
nfib2 38
stdev 0.043
extrd −0.06
7571.7500
nfib1 38
nfib2 38
stdev 0.041
extrd −0.06
7794.1200
nfib1 38
nfib2 38
stdev 0.030
extrd −0.20
7821.5100
nfib1 37
nfib2 38
stdev 0.021
extrd −0.16
8399.1600
nfib1 38
nfib2 38
stdev 0.022
extrd −0.12
8430.1700
nfib1 38
nfib2 38
stdev 0.020
extrd −0.13
8885.8300
nfib1 38
nfib2 38
stdev 0.027
extrd −0.10
8919.6100
nfib1 38
nfib2 38
stdev 0.026
extrd −0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

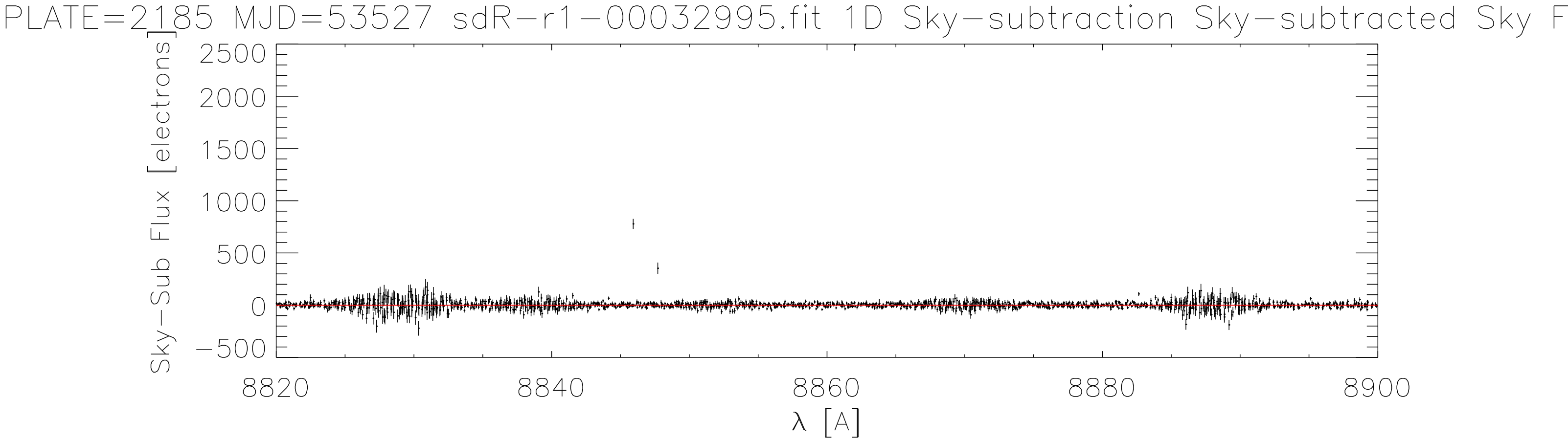

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
5000
6000
7000
8000
9000
10000

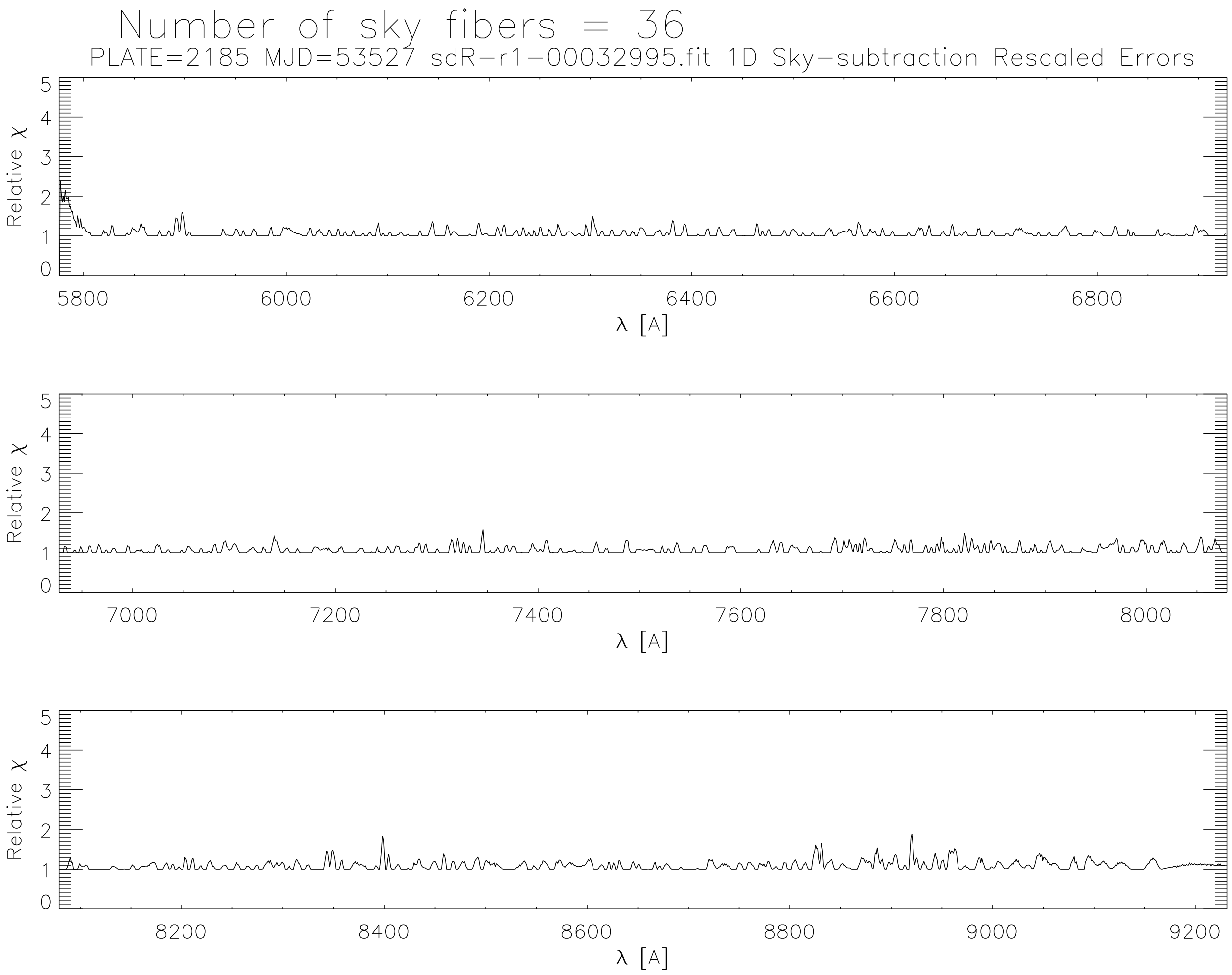
PLATE=2185 MJD=53527 Smooth superflat for sdR-r1-00032995.fit




PLATE=2185 MJD=53527 sdR-r1-00032995.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

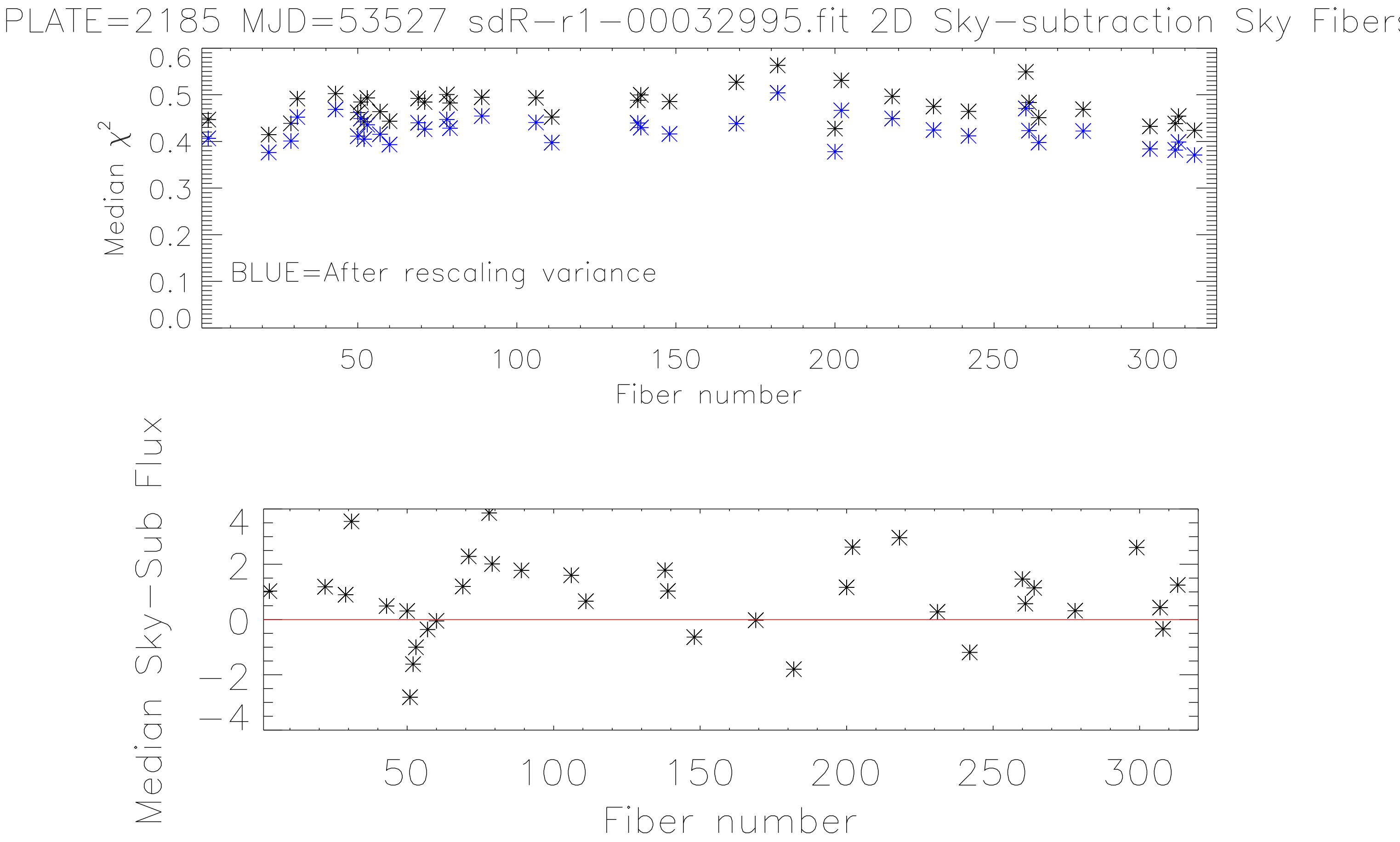

PLATE=2185 MJD=53527 sdR-r1-00032995.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]


PLATE=2185 MJD=53527 sdR-r1-00032995.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2500
2000
1500
1000
500
0
−500
8820
8840
8860
8880
8900
λ [A]

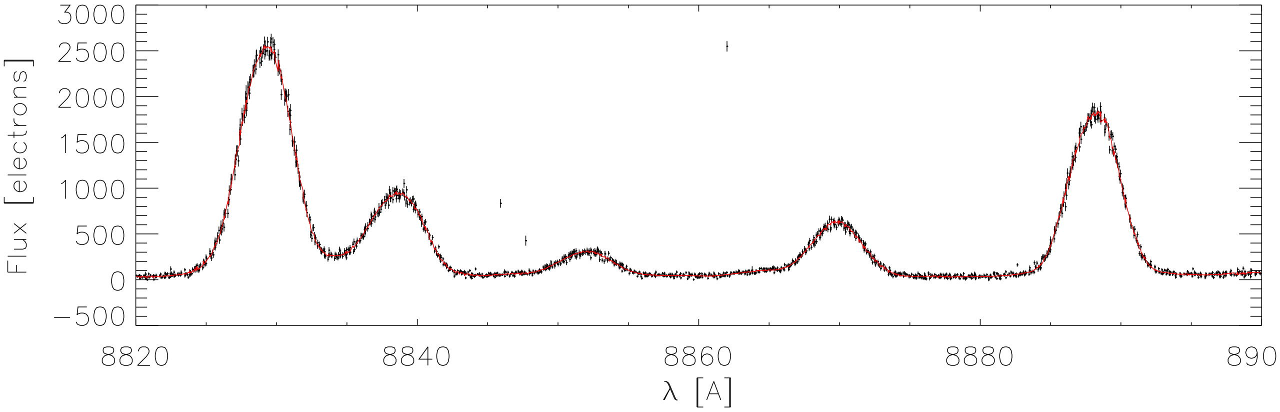


Number of sky fibers = 36

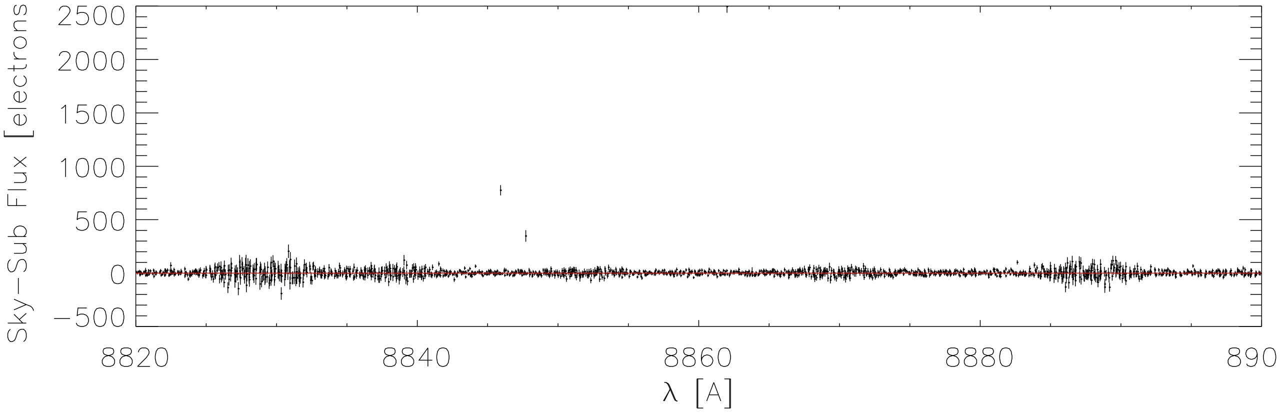
PLATE=2185 MJD=53527 sdR-r1-00032995.fit 1D Sky-subtraction Rescaled Errors



PLATE=2185 MJD=53527 sdR-r1-00032995.fit 2D Sky-subtraction Sky Fibers



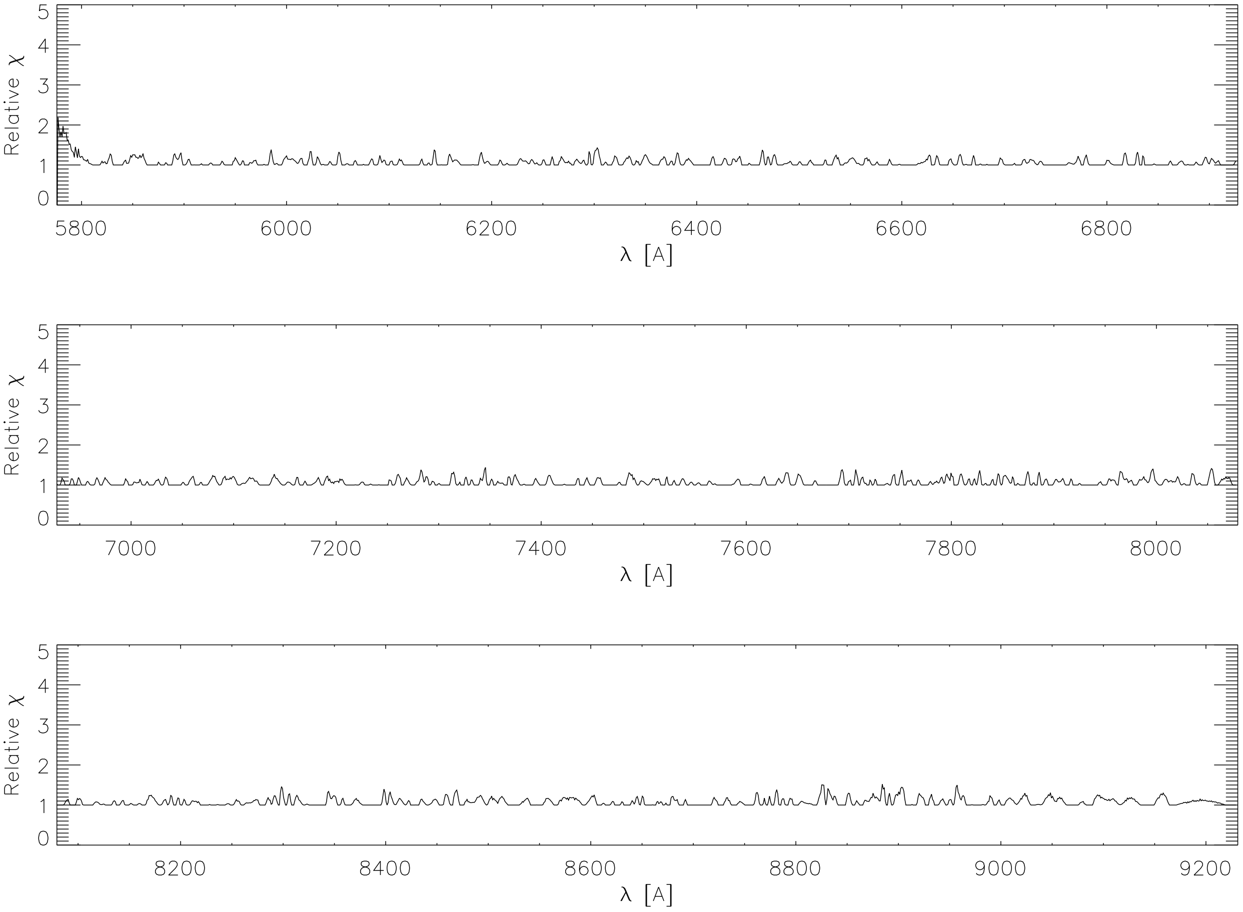
PLATE=2185 MJD=53527 sdR-r1-00032995.fit 2D Sky-subtraction Sky Fibers

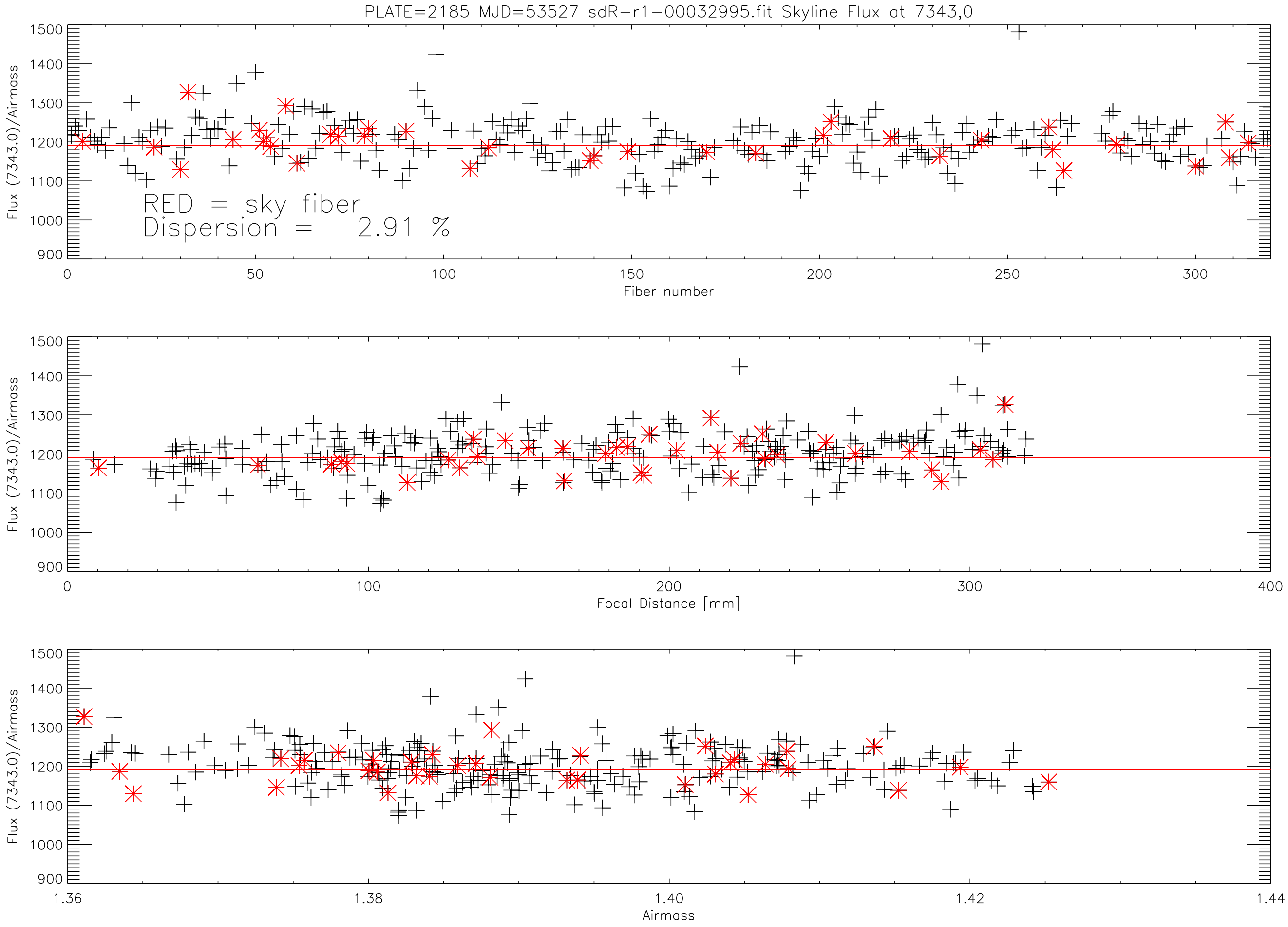


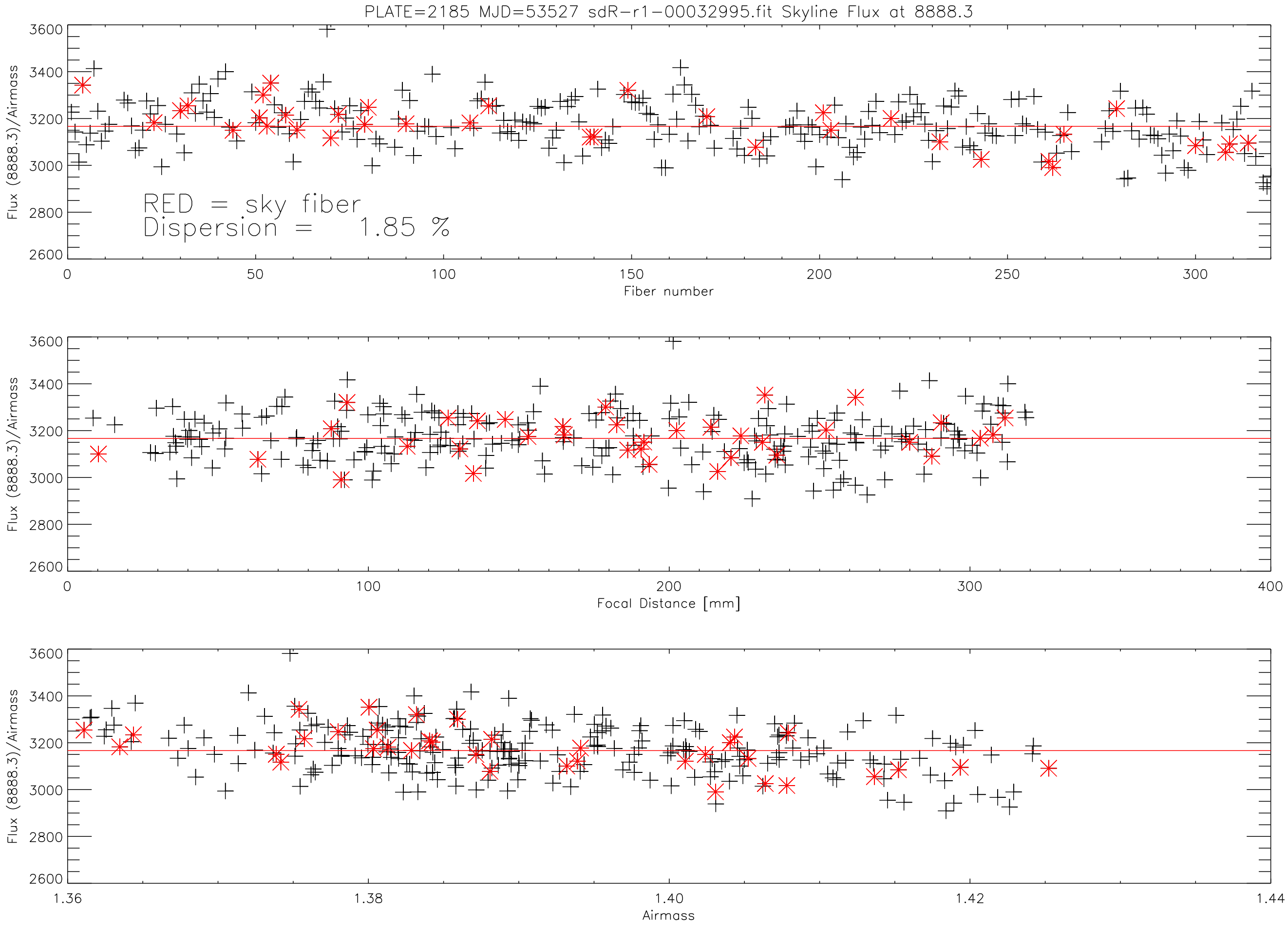
PLATE=2185 MJD=53527 sdR-r1-00032995.fit 2D Sky-subtraction Sky-subtracted Sky F

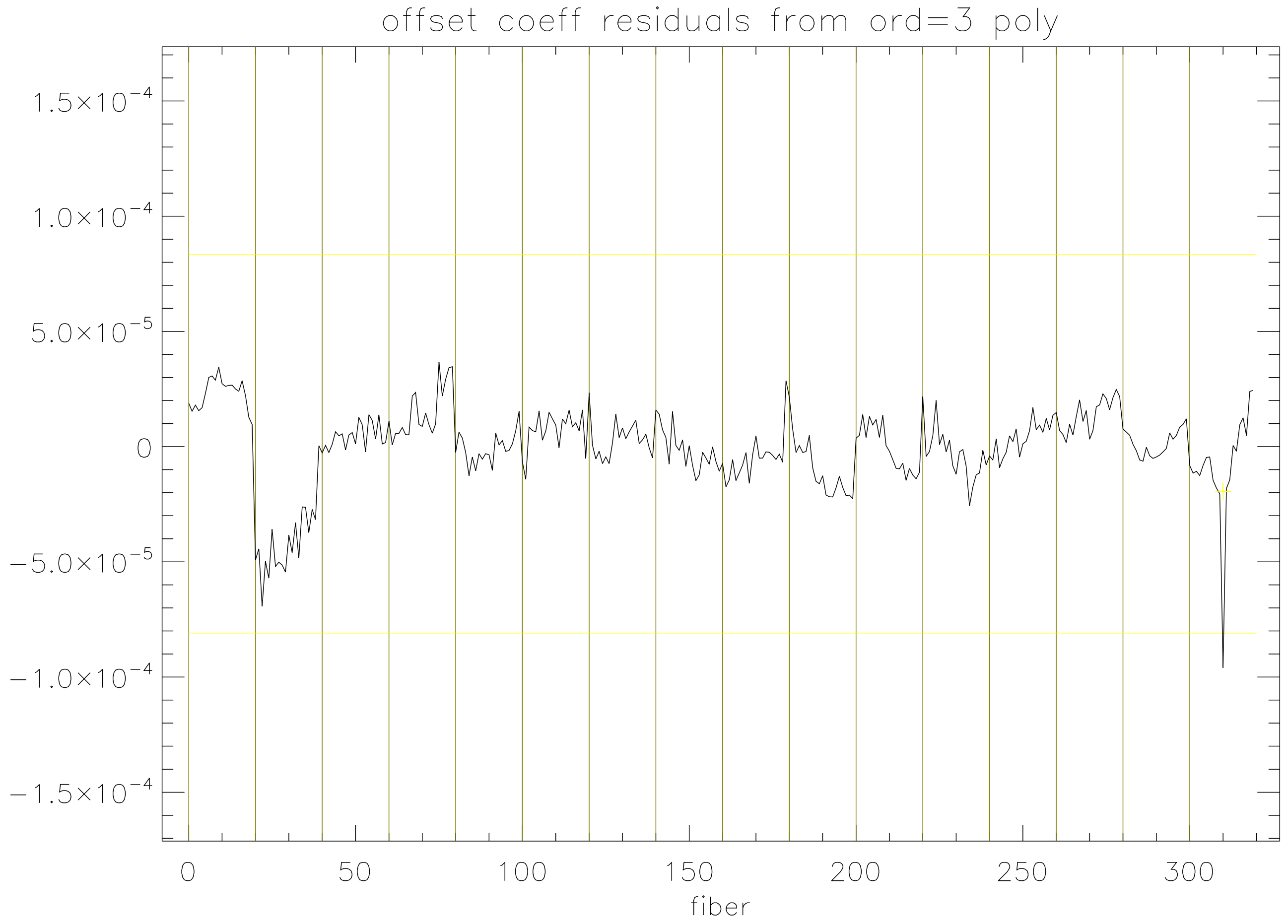
Number of sky fibers = 36

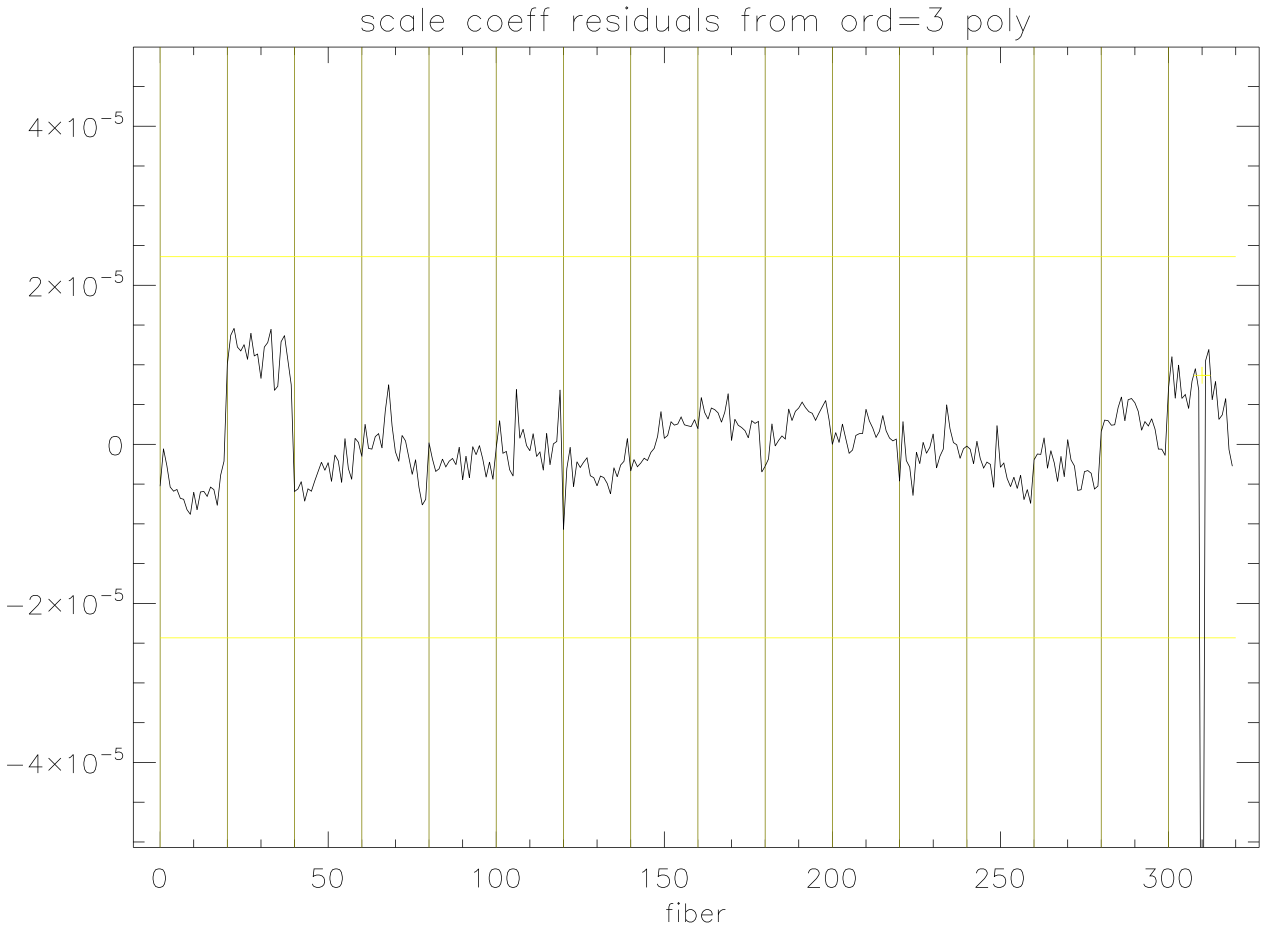
PLATE=2185 MJD=53527 sdR-r1-00032995.fit 2D Sky-subtraction Rescaled Errors

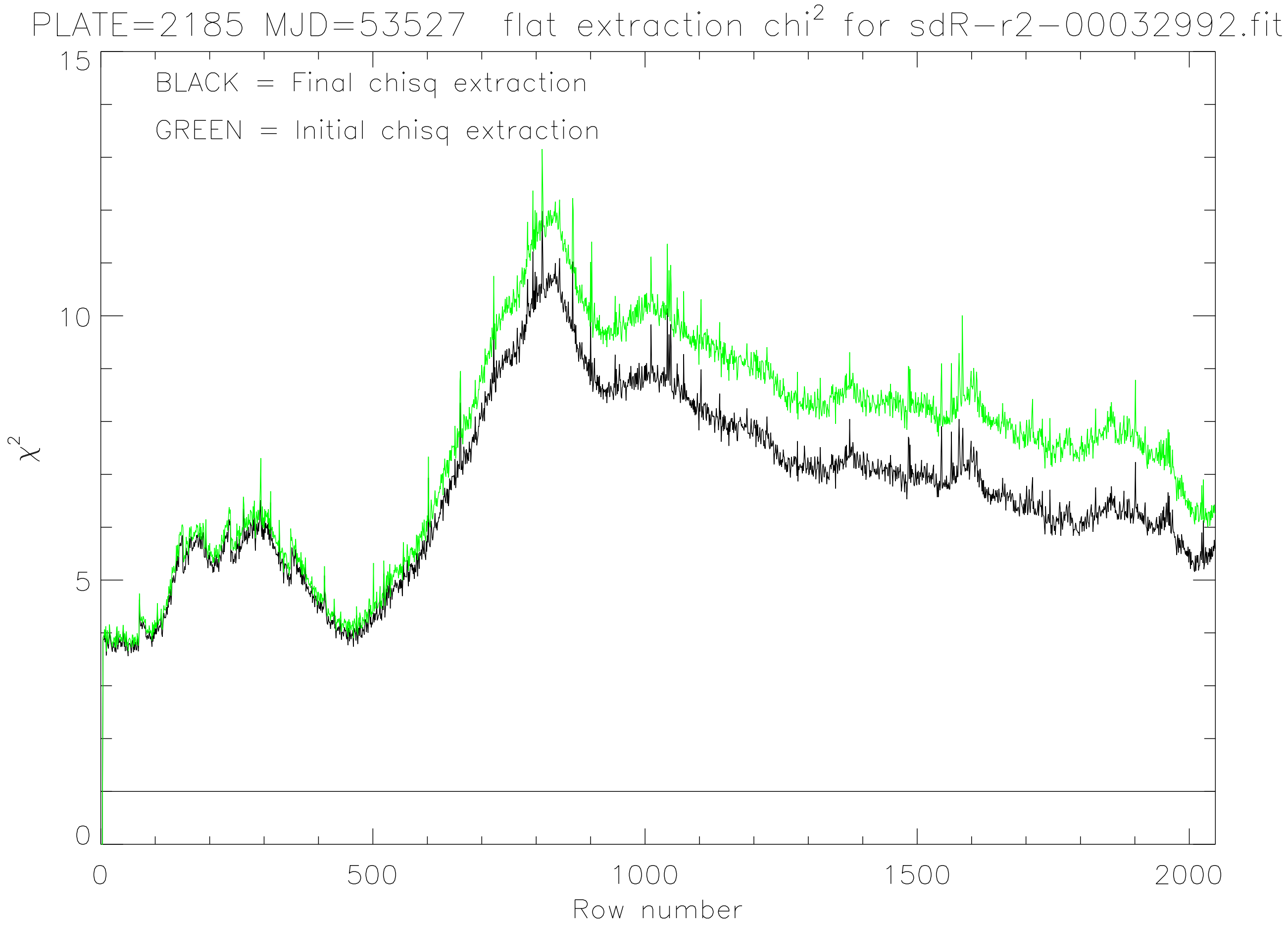


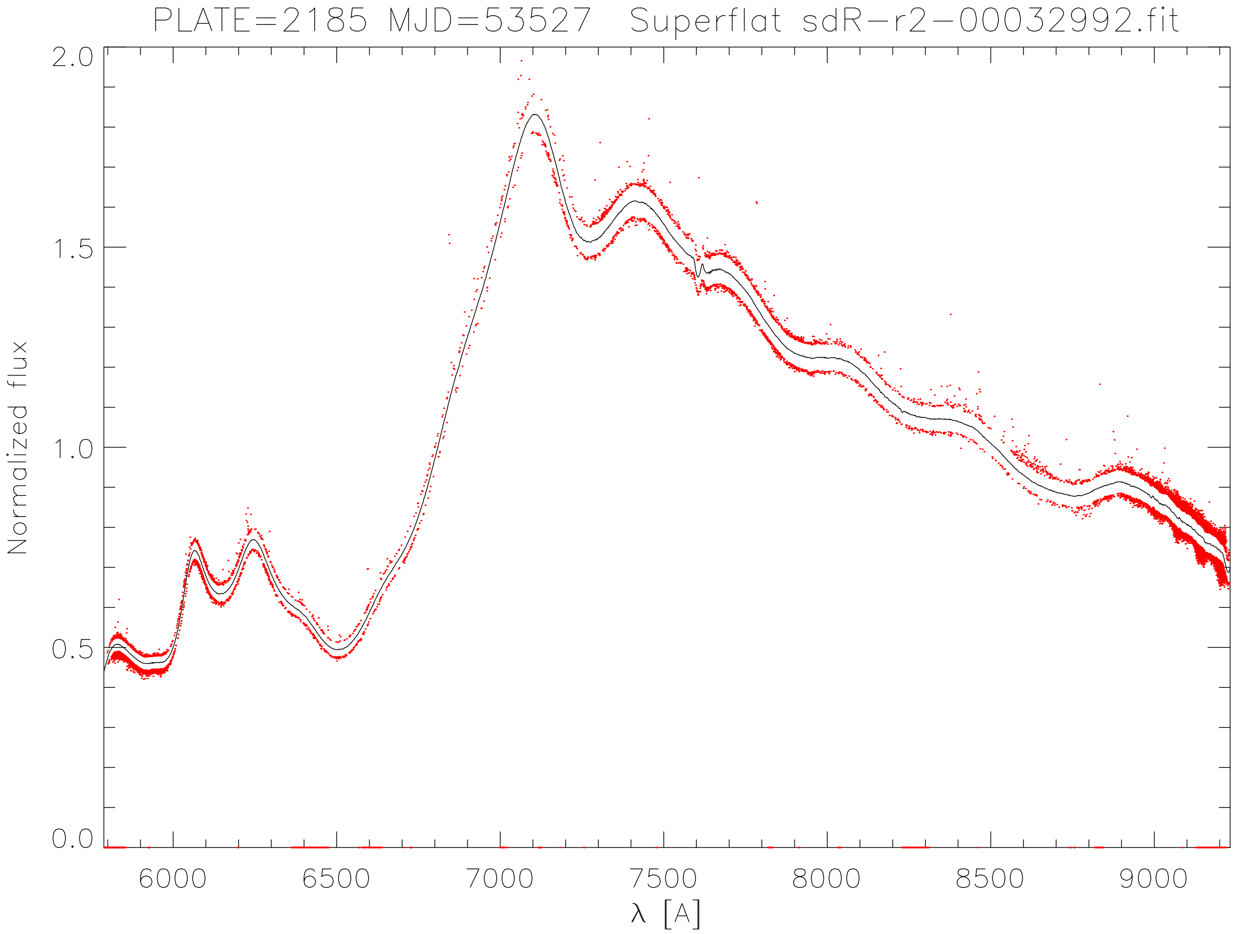


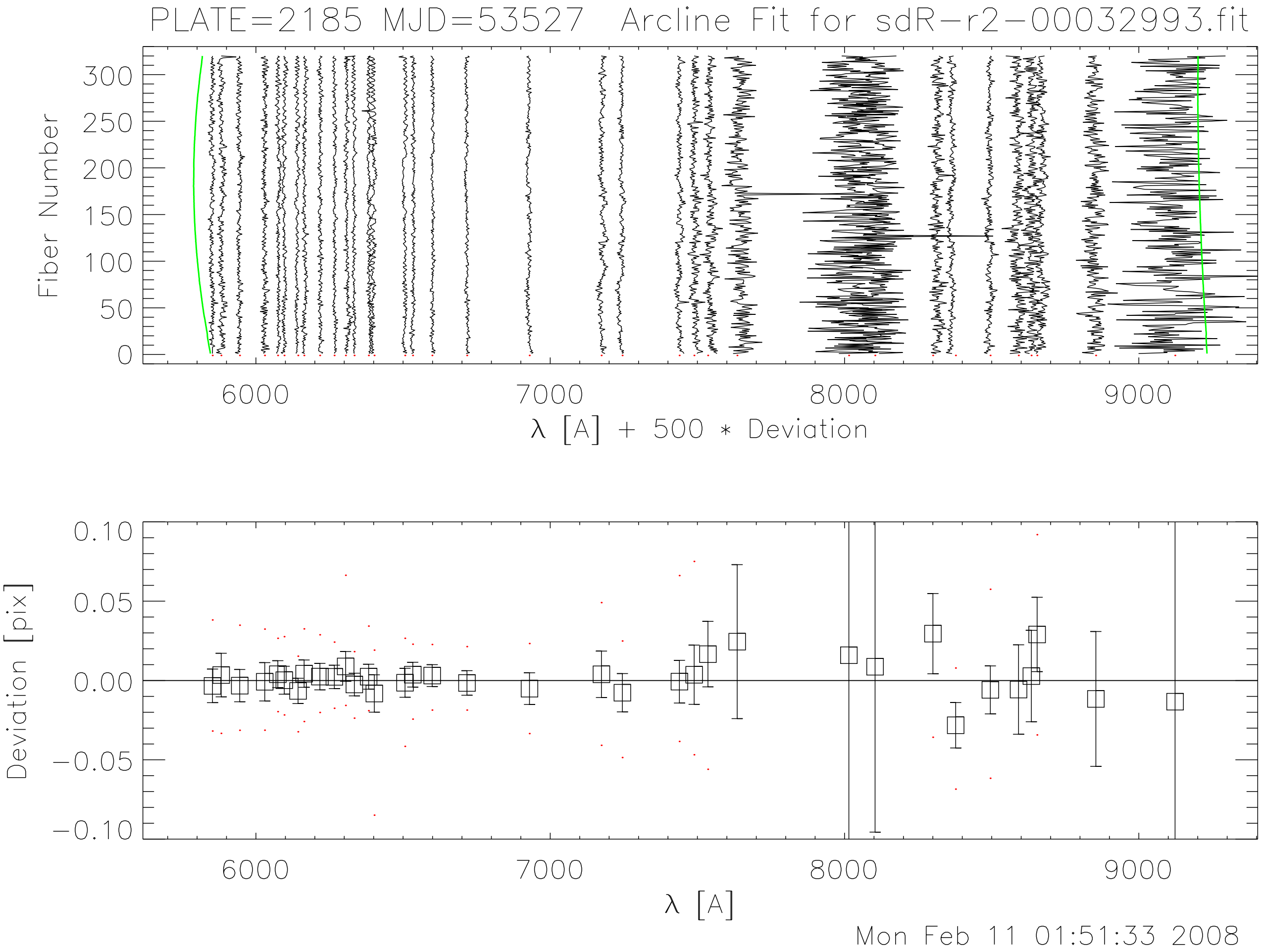

PLATE=2185 MJD=53527 sdR-r1-00032995.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
3600
3400
3200
3000
2800
2600
RED = sky fiber
Dispersion = 1.85 %
0
50
100
150
200
250
300
Fiber number
Flux (8888.3)/Airmass
3600
3400
3200
3000
2800
2600
0
100
200
300
400
Focal Distance [mm]
Flux (8888.3)/Airmass
3600
3400
3200
3000
2800
2600
1.36
1.38
1.40
1.42
1.44
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

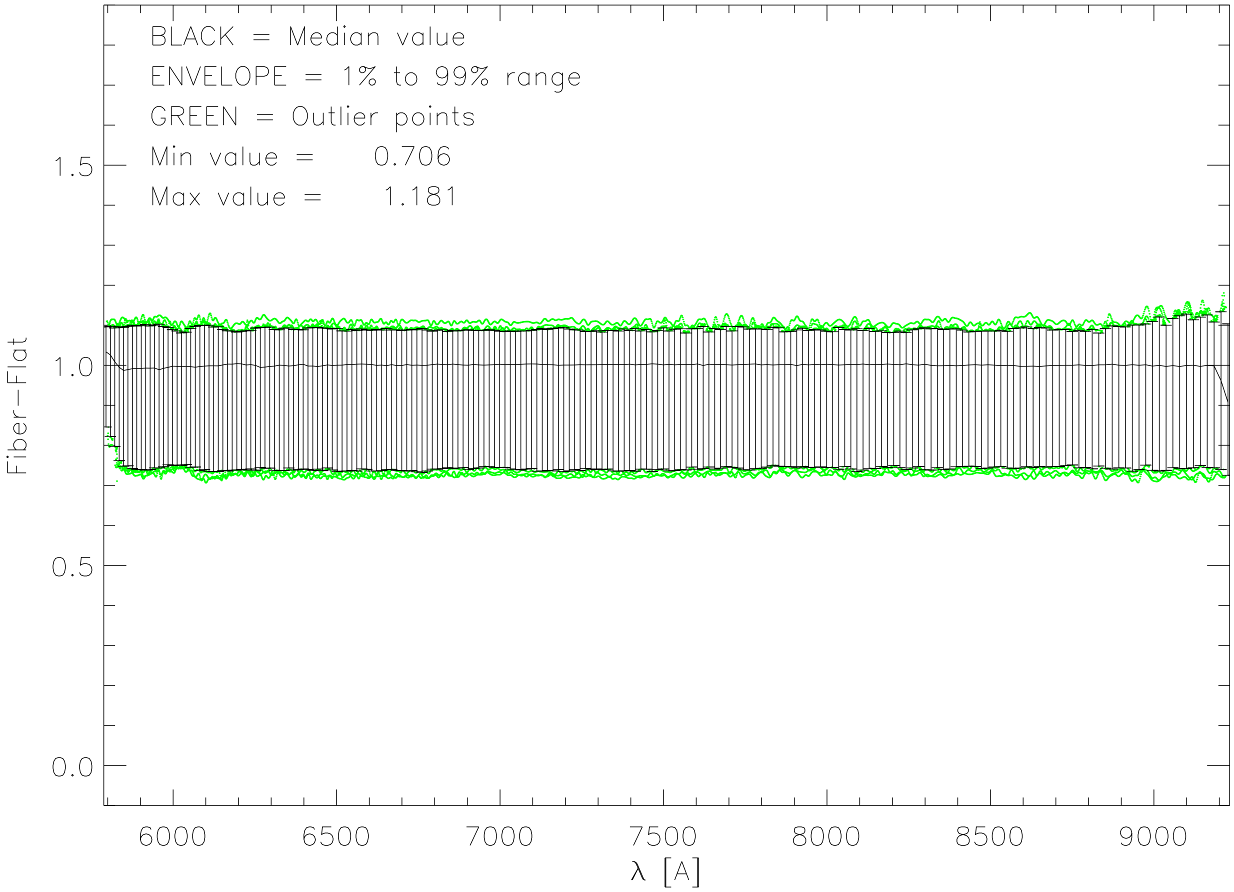

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber


PLATE=2185 MJD=53527 flat extraction chi^2 for sdR-r2-00032992.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
0
500
1000
1500
2000
Row number

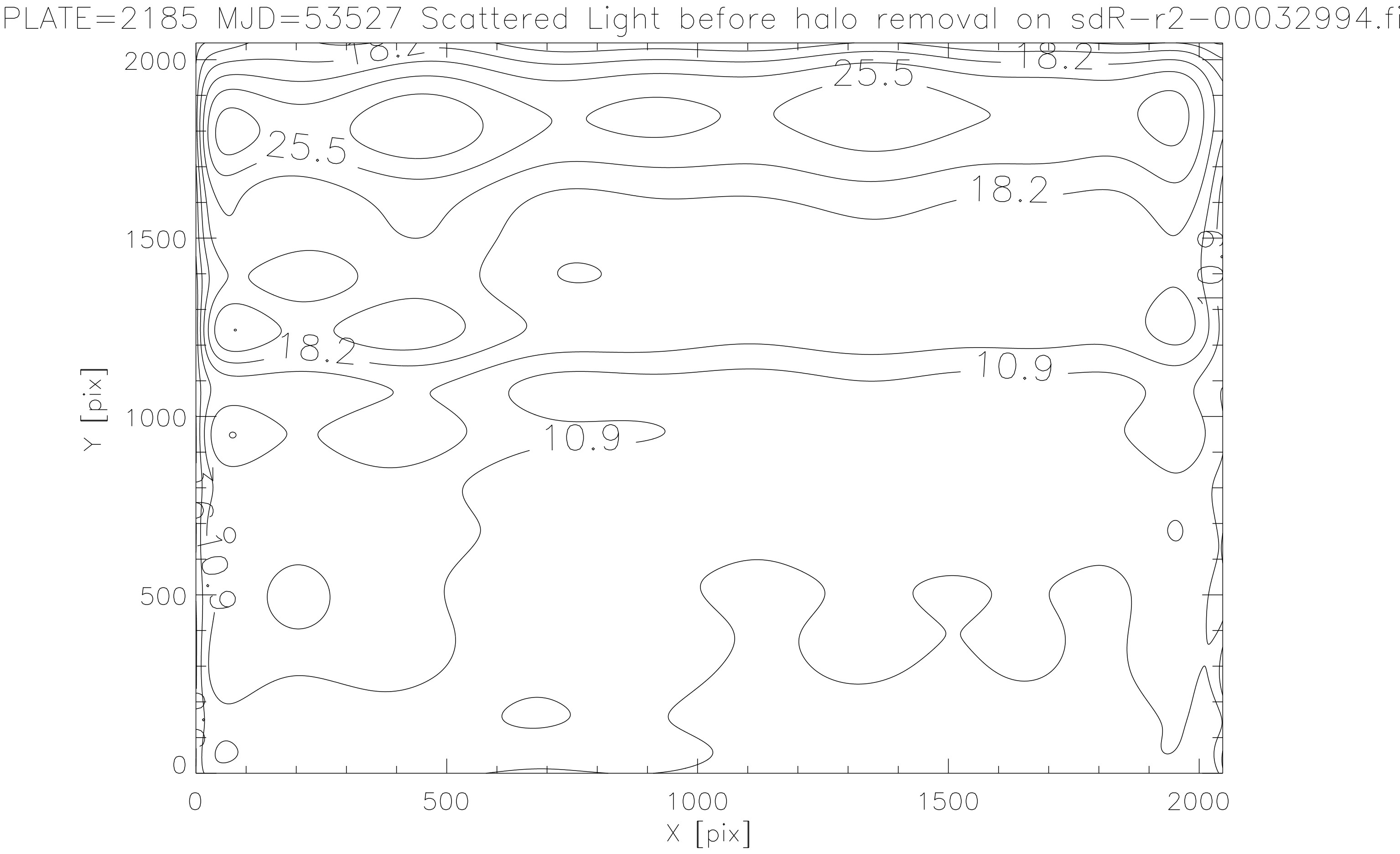

PLATE=2185 MJD=53527 Superflat sdR-r2-00032992.fit
Normalized flux
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000
λ [A]


PLATE=2185 MJD=53527 Arcline Fit for sdR-r2-00032993.fit
Fiber Number
0
50
100
150
200
250
300
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Mon Feb 11 01:51:33 2008

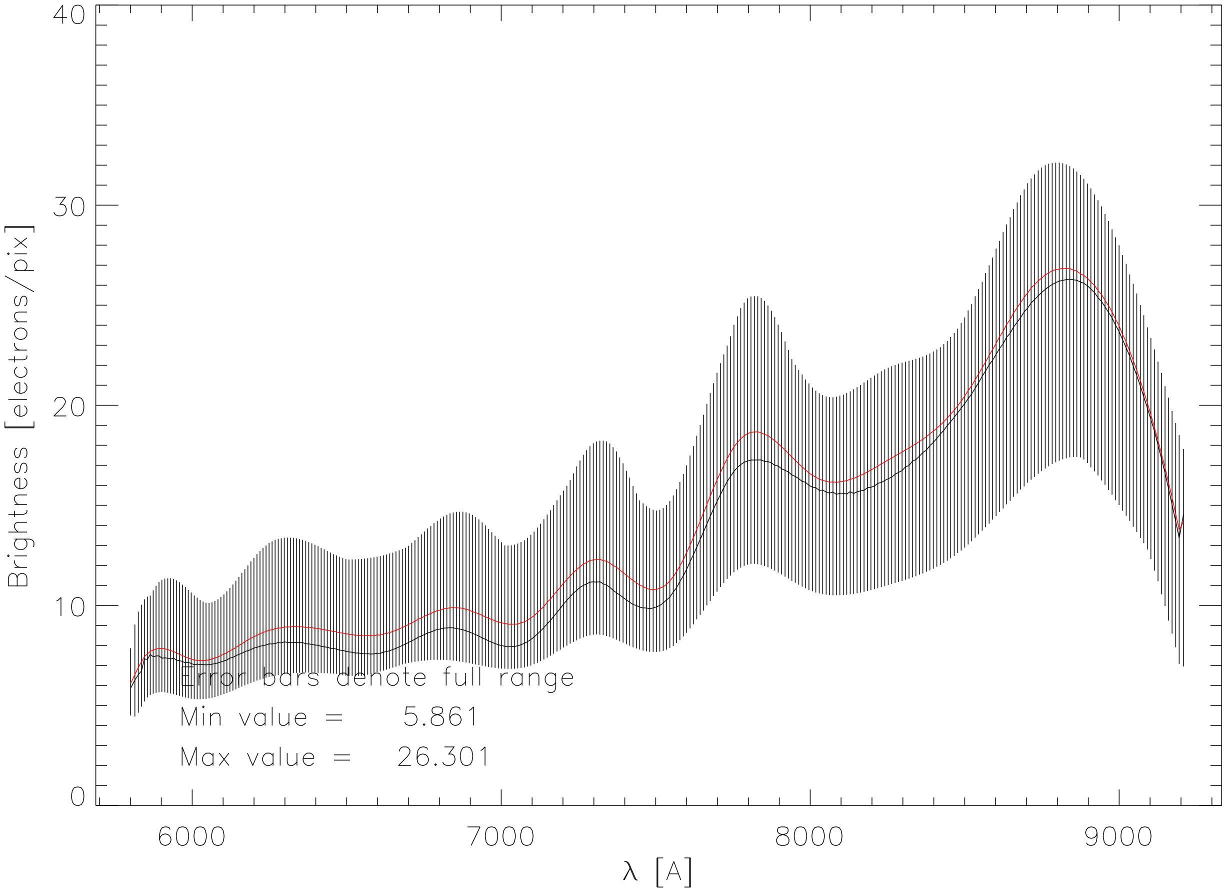
PLATE=2185 MJD=53527 Fiber−Flats for sdR−r2−00032992.fit



Mon Feb 11 01:51:41 2008

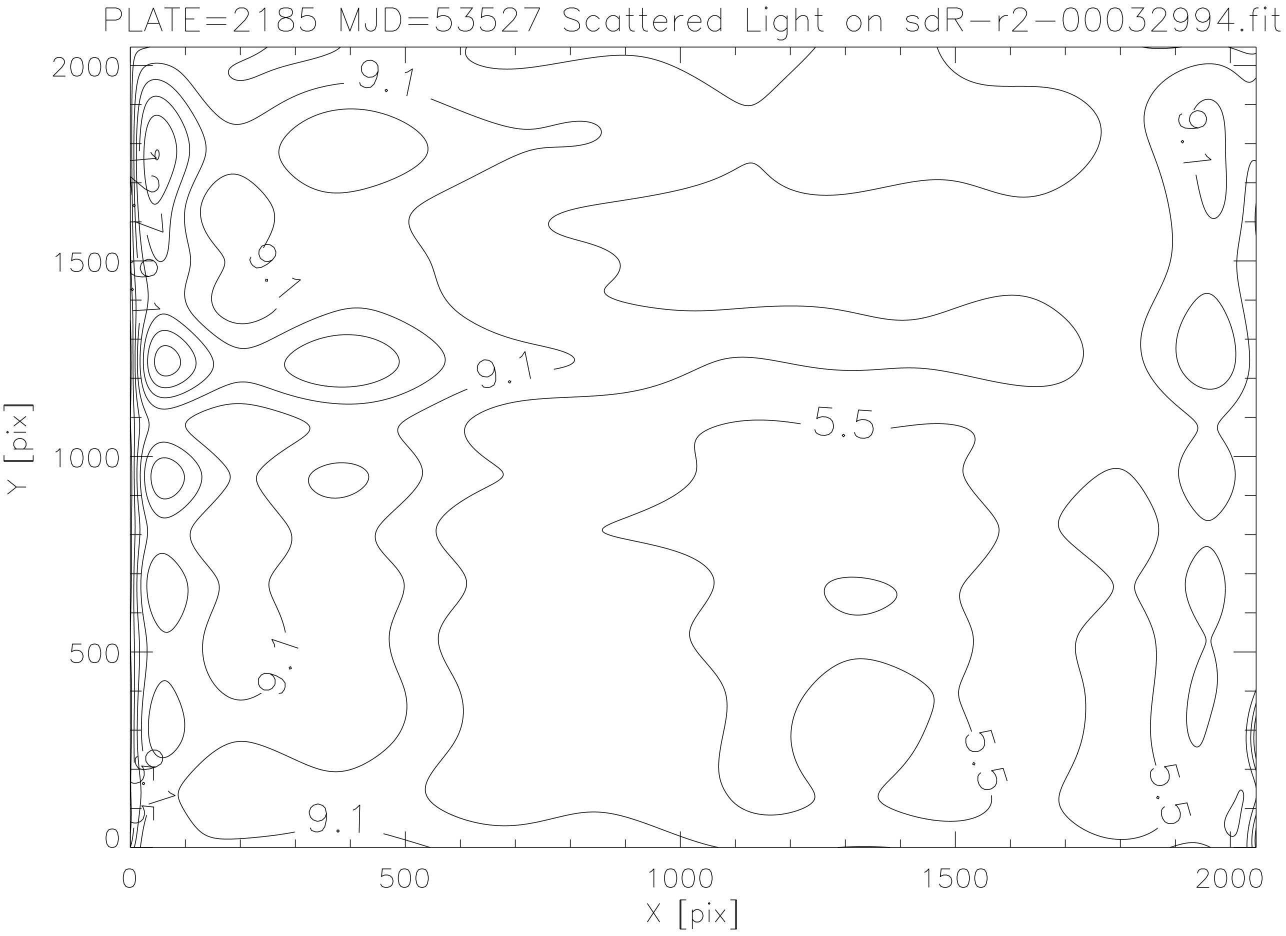


PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-r2-00032994.fi

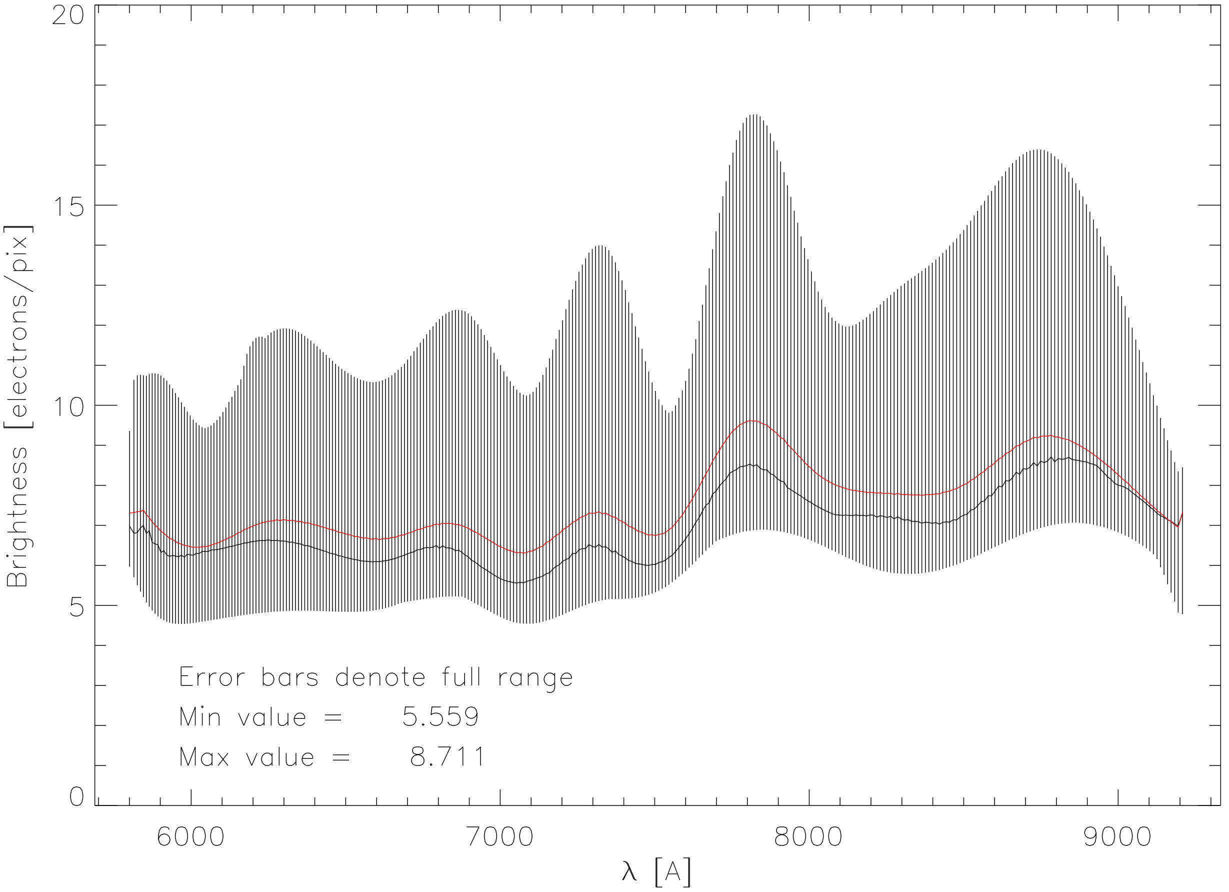


PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-r2-00032994.fi

Mon Feb 11 01:52:28 2008

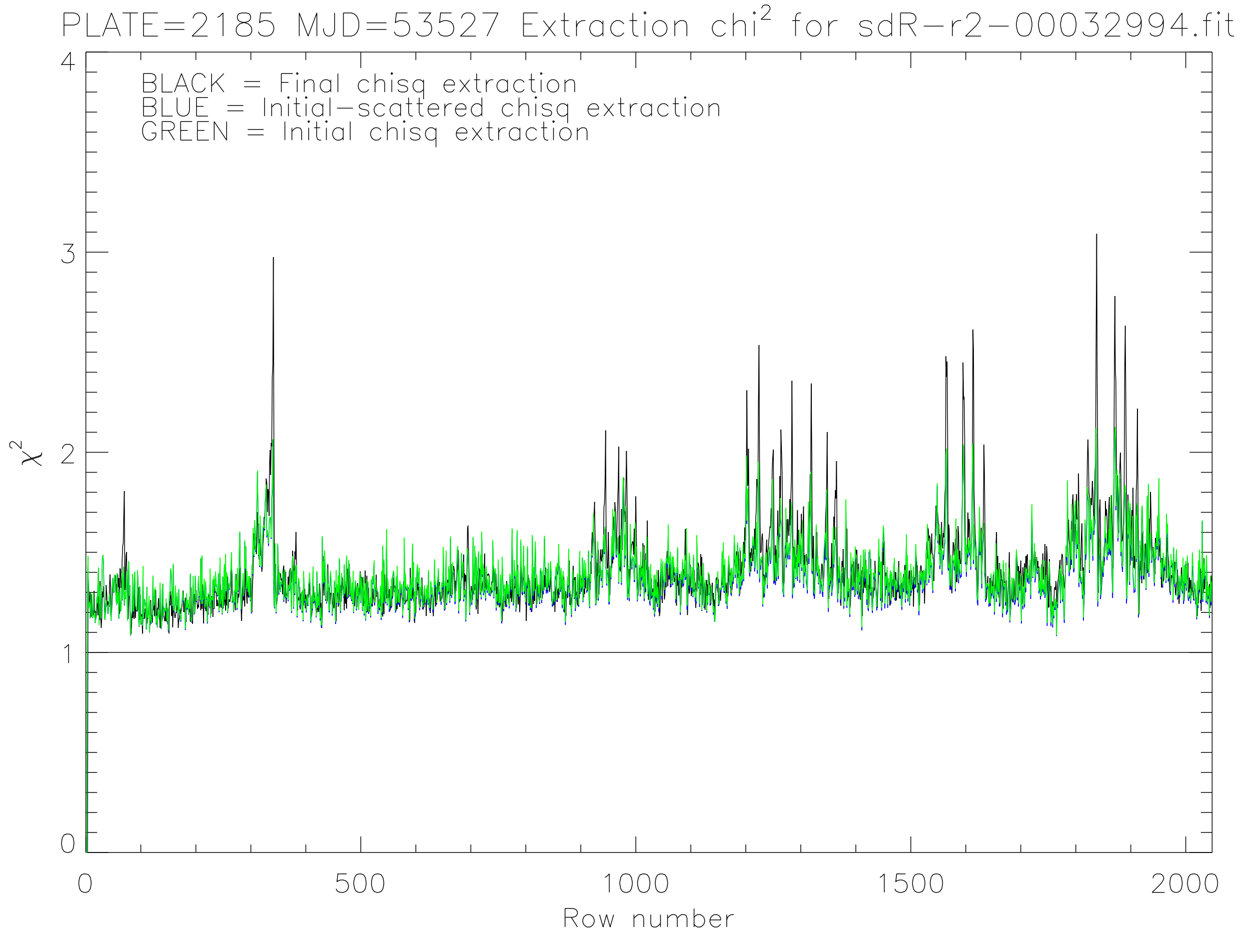

PLATE=2185 MJD=53527 Scattered Light on sdR-r2-00032994.fit

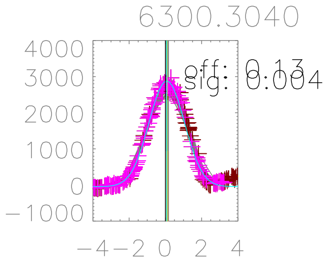
PLATE=2185 MJD=53527 Scattered Light on sdR-r2-00032994.fit

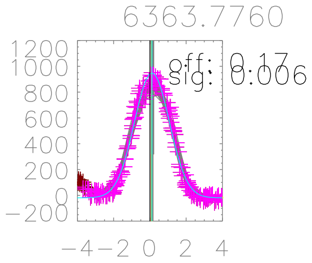


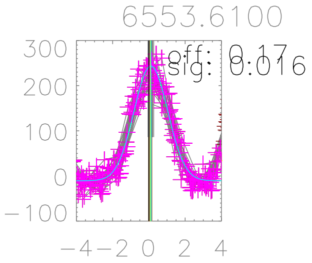
Error bars denote full range
Min value = 5.559
Max value = 8.711

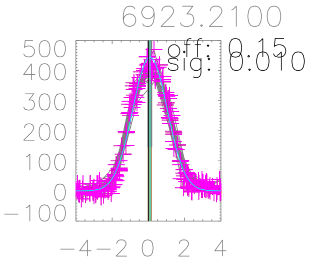
Mon Feb 11 01:55:03 2008

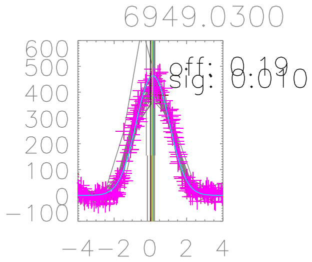

PLATE=2185 MJD=53527 Extraction chi^2 for sdR-r2-00032994.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

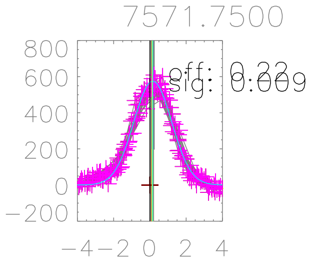

6300.3040
4000
3000
2000
1000
0
−1000
−4−2 0 2 4
off: 0.13
sig: 0.004

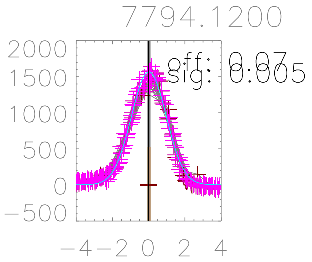

6363.7760
1200
1000
800
600
400
200
0
−200
−4−2 0 2 4
off: 0.17
sig: 0.006

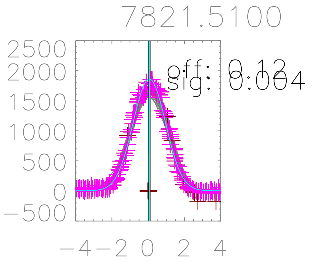

6553.6100
300
200
100
0
−100
−4−2 0 2 4
off: 0.17
sig: 0.016

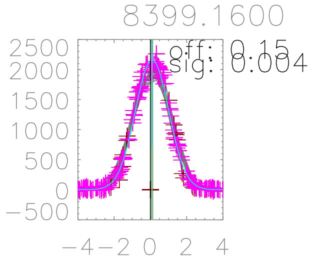

6923.2100
500
400
300
200
100
0
−100
−4−2 0 2 4
off: 0.15
sig: 0.010

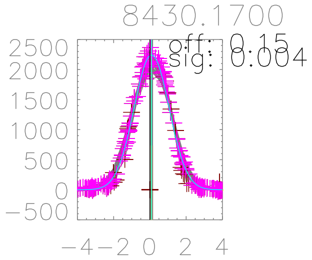

6949.0300
600
500
400
300
200
100
0
−100
−4−2 0 2 4
off: 0.19
sig: 0.010

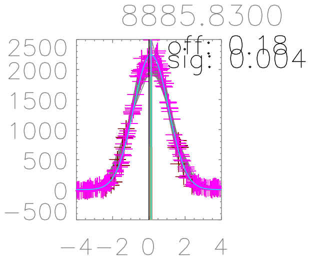

7571.7500
800
600
400
200
0
−200
−4−2 0 2 4
off: 0.22
sig: 0.009

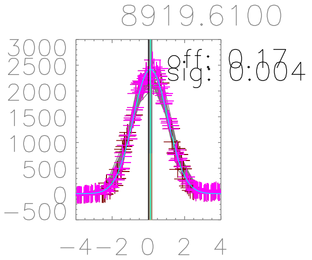

7794.1200
2000
1500
1000
500
0
−500
−4−2 0 2 4
off: 0.07
sig: 0.005

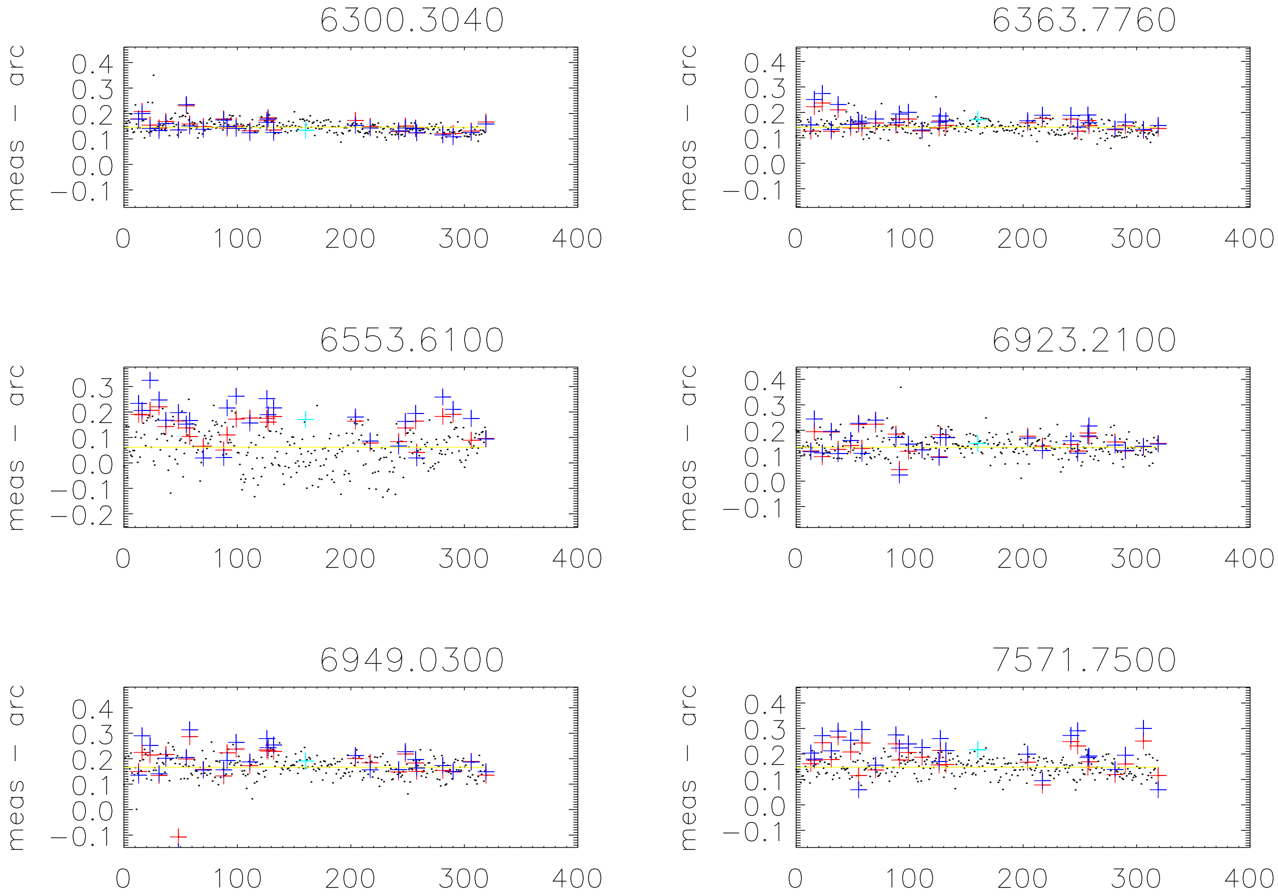

7821.5100
2500
2000
1500
1000
500
0
−500
−4−2 0 2 4
off: 0.12
sig: 0.004

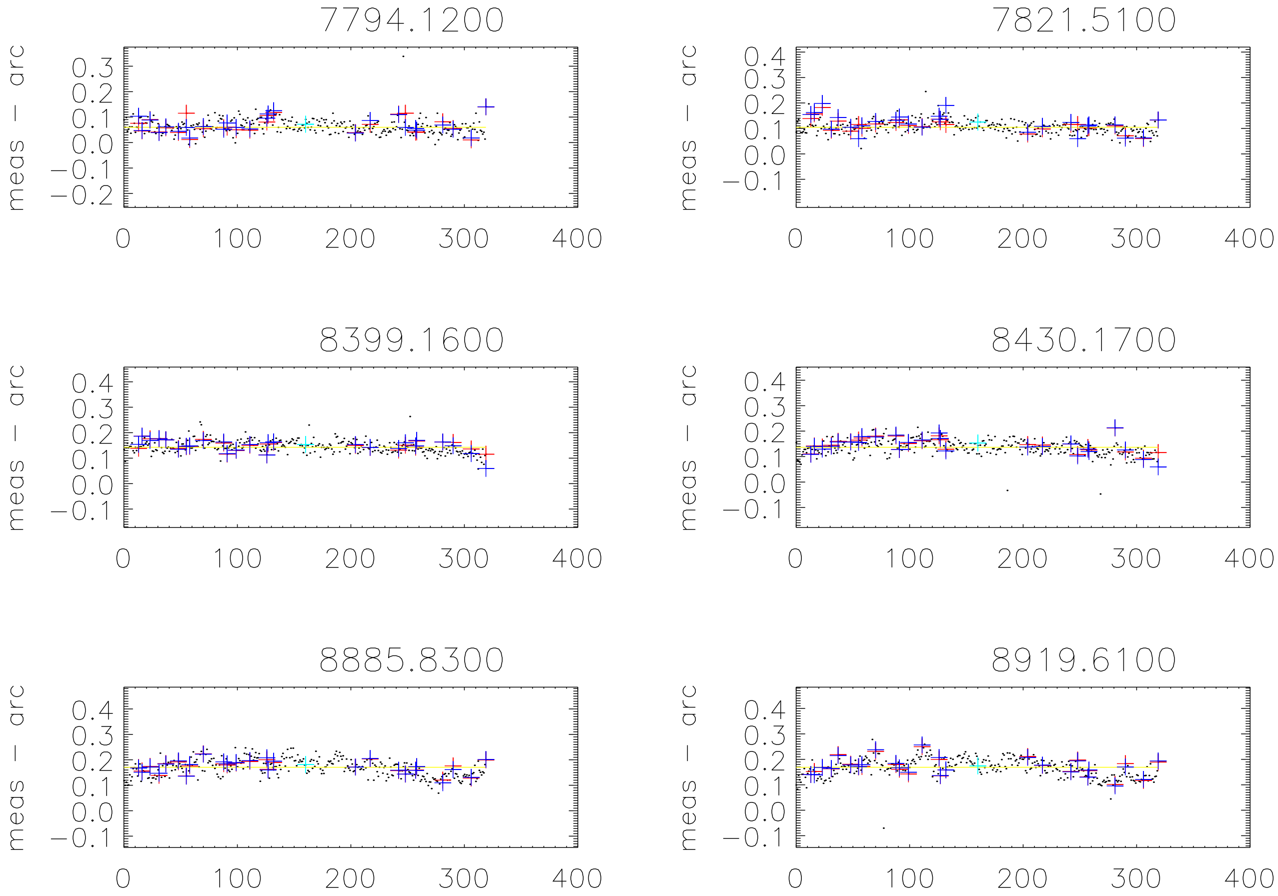

8399.1600
2500
2000
1500
1000
500
0
−500
−4−2 0 2 4
off: 0.15
sig: 0.004

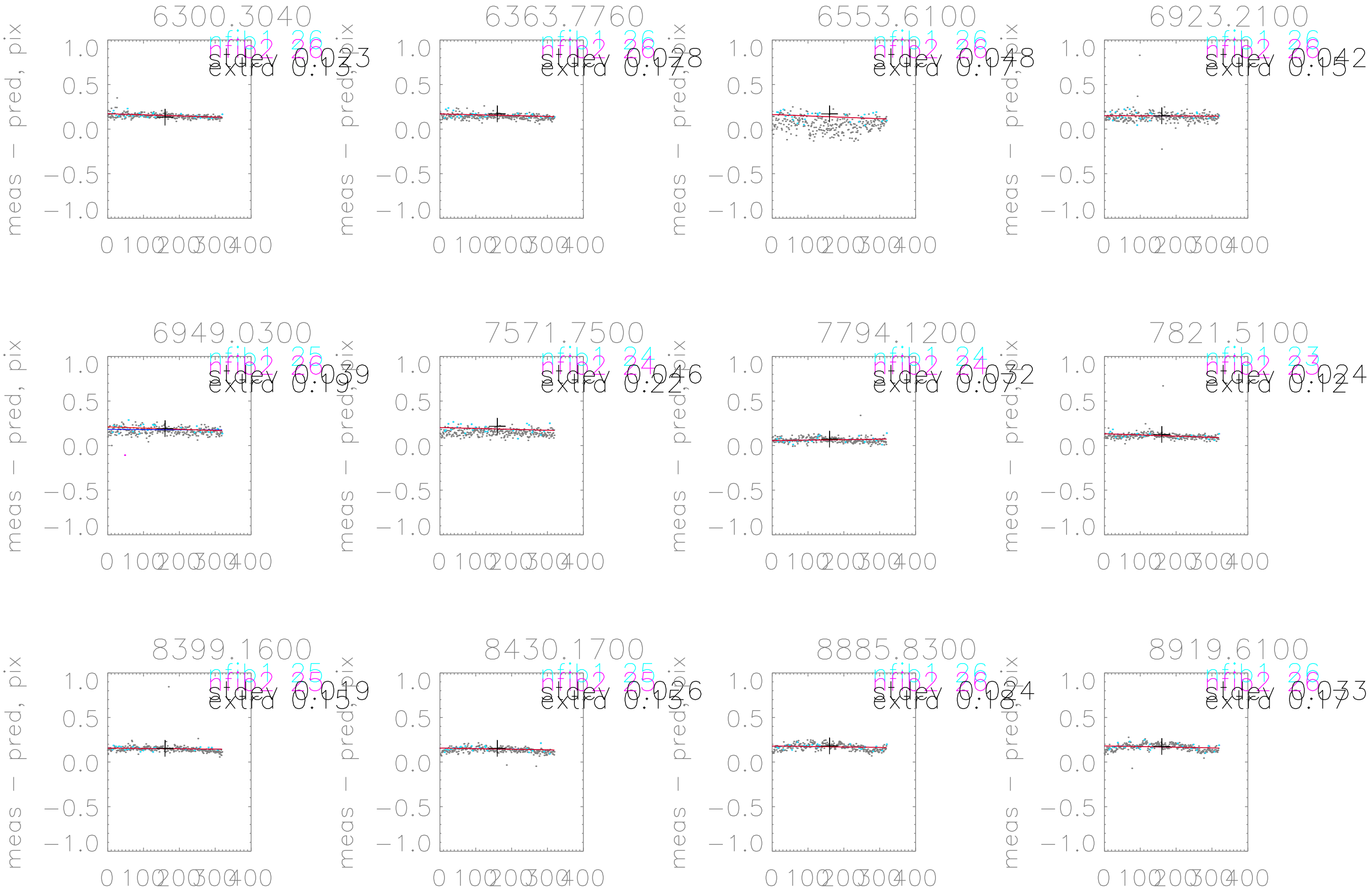

8430.1700
2500
2000
1500
1000
500
0
−500
−4−2 0 2 4
off: 0.15
sig: 0.004

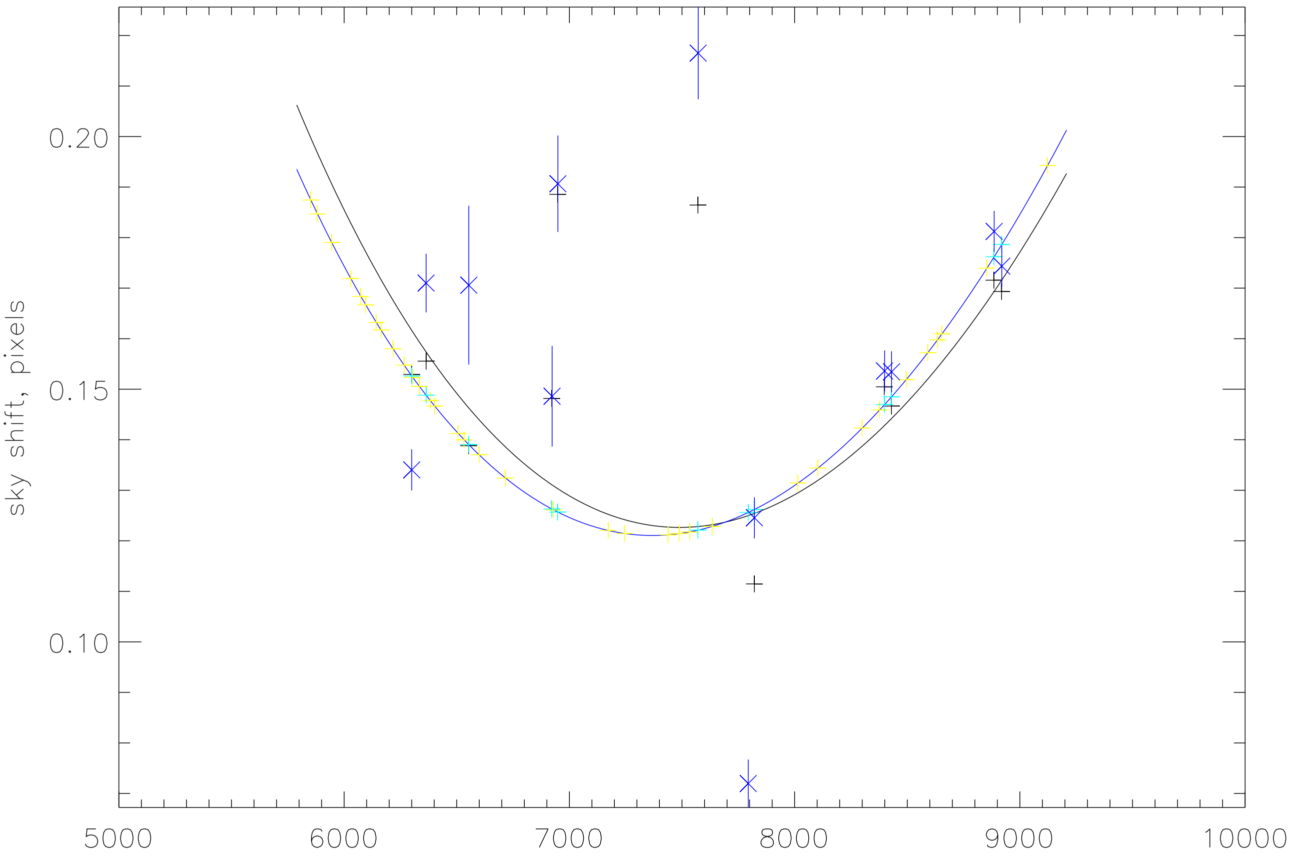

8885.8300
2500
2000
1500
1000
500
0
−500
−4−2 0 2 4
off: 0.18
sig: 0.004

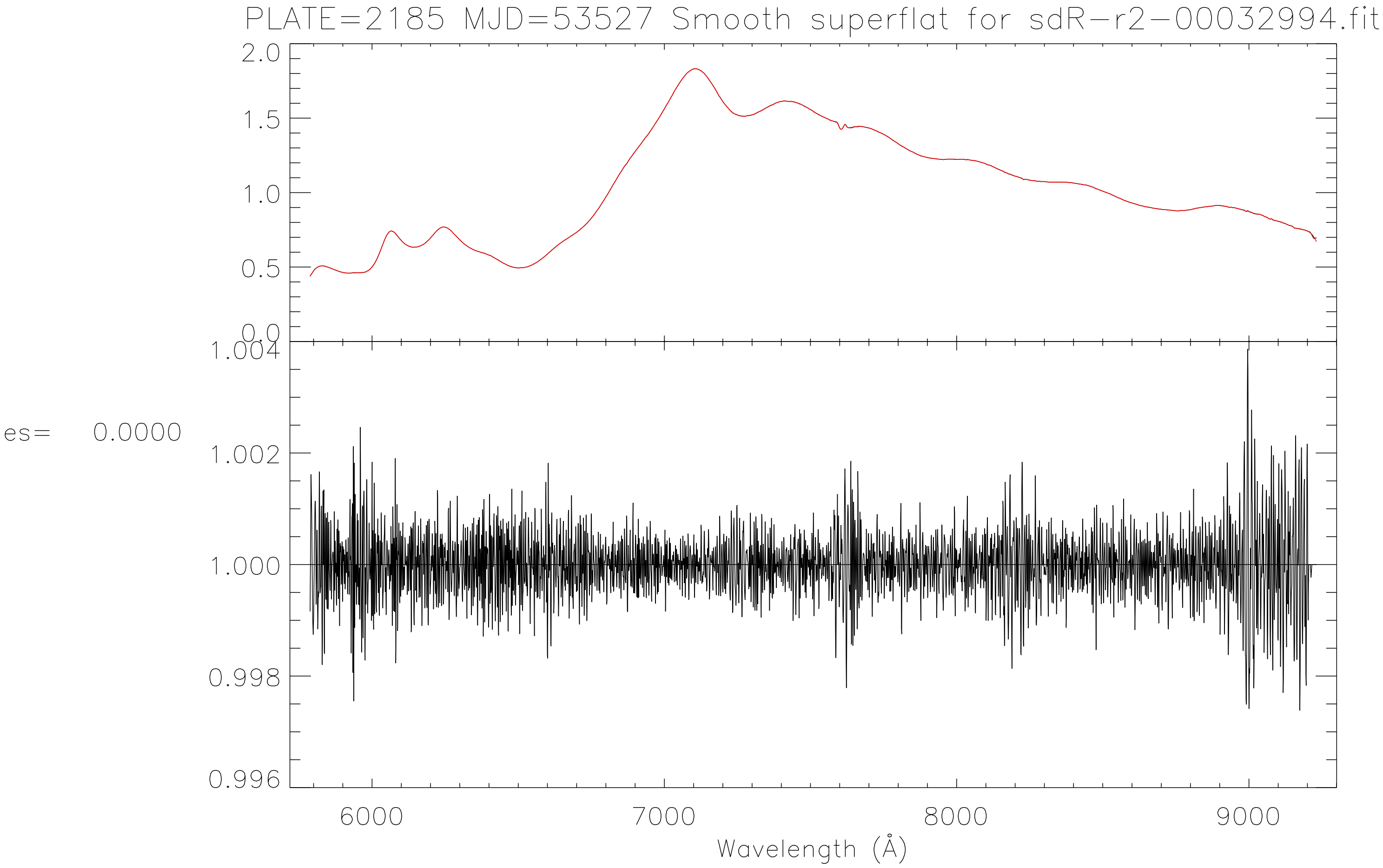

8919.6100
3000
2500
2000
1500
1000
500
0
−500
−4−2 0 2 4
off: 0.17
sig: 0.004

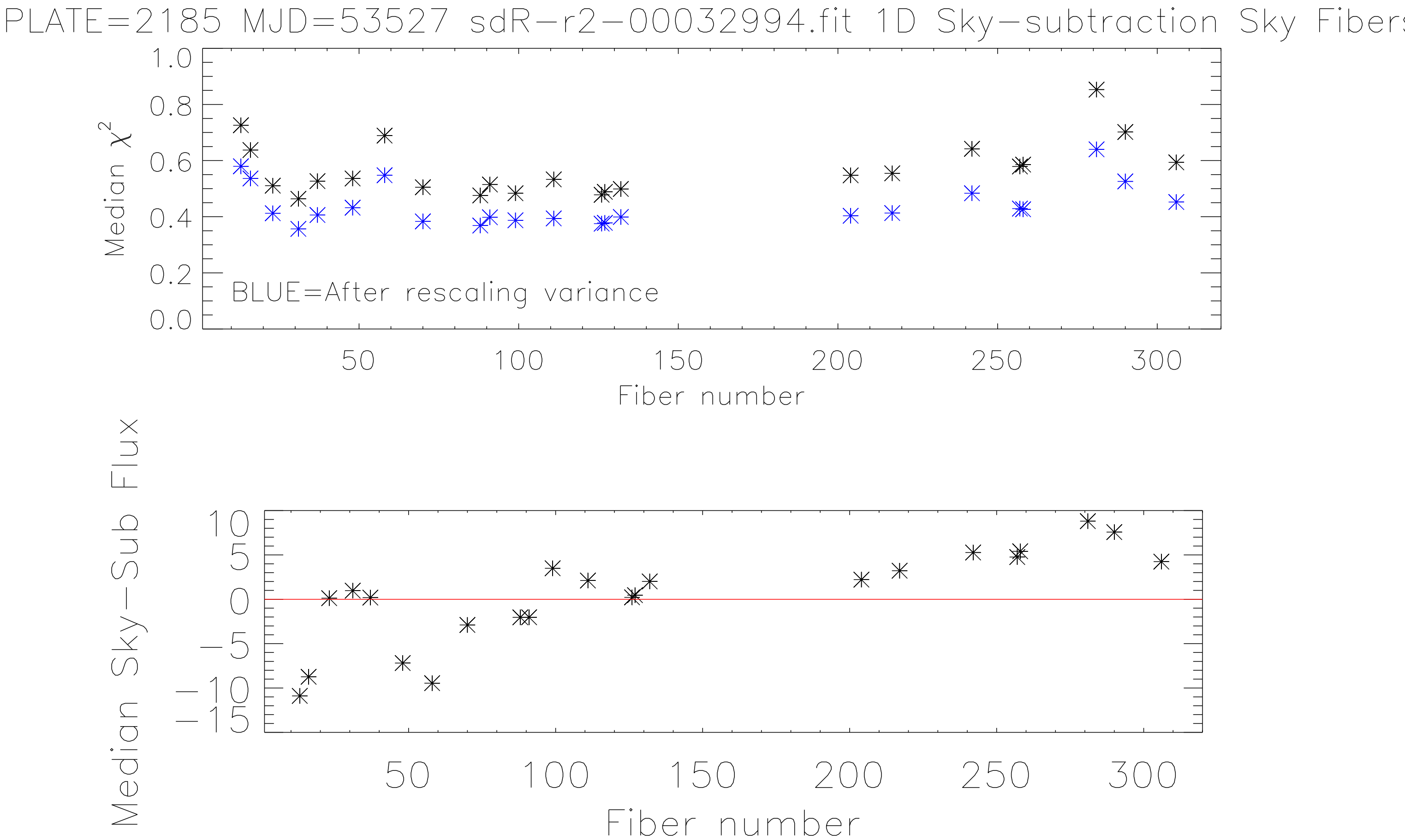

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


7794.1200
7821.5100
8399.1600
8430.1700
8885.8300
8919.6100
meas - arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0.4
0
100
200
300
400

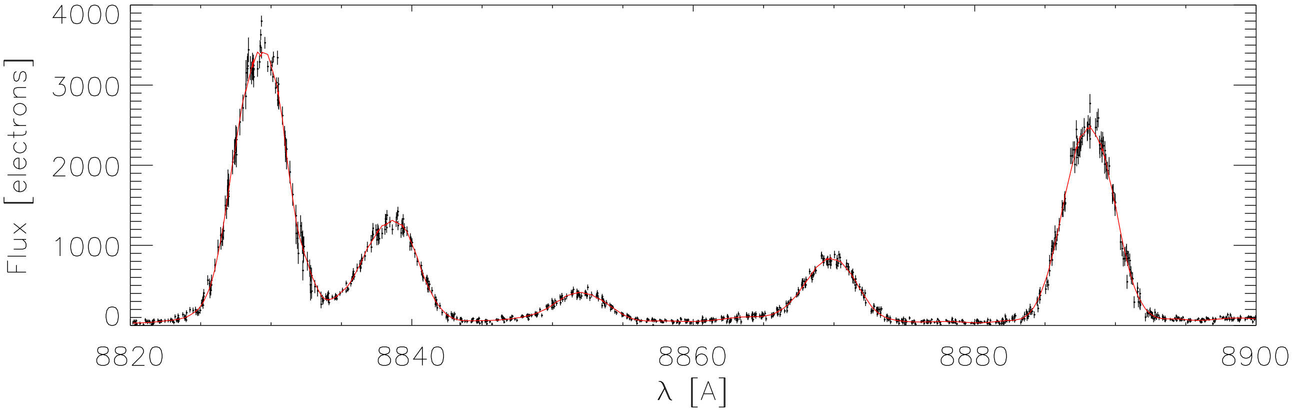

6300.3040
nfib1 26
nfib2 26
stdev 0.023
extra 0.13
6363.7760
nfib1 26
nfib2 26
stdev 0.028
extra 0.17
6553.6100
nfib1 26
nfib2 26
stdev 0.048
extra 0.17
6923.2100
nfib1 26
nfib2 26
stdev 0.042
extra 0.15
6949.0300
nfib1 25
nfib2 26
stdev 0.039
extra 0.19
7571.7500
nfib1 24
nfib2 24
stdev 0.046
extra 0.22
7794.1200
nfib1 24
nfib2 24
stdev 0.032
extra 0.07
7821.5100
nfib1 23
nfib2 23
stdev 0.024
extra 0.12
8399.1600
nfib1 25
nfib2 25
stdev 0.019
extra 0.15
8430.1700
nfib1 25
nfib2 25
stdev 0.026
extra 0.15
8885.8300
nfib1 26
nfib2 26
stdev 0.024
extra 0.18
8919.6100
nfib1 26
nfib2 26
stdev 0.033
extra 0.17
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


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

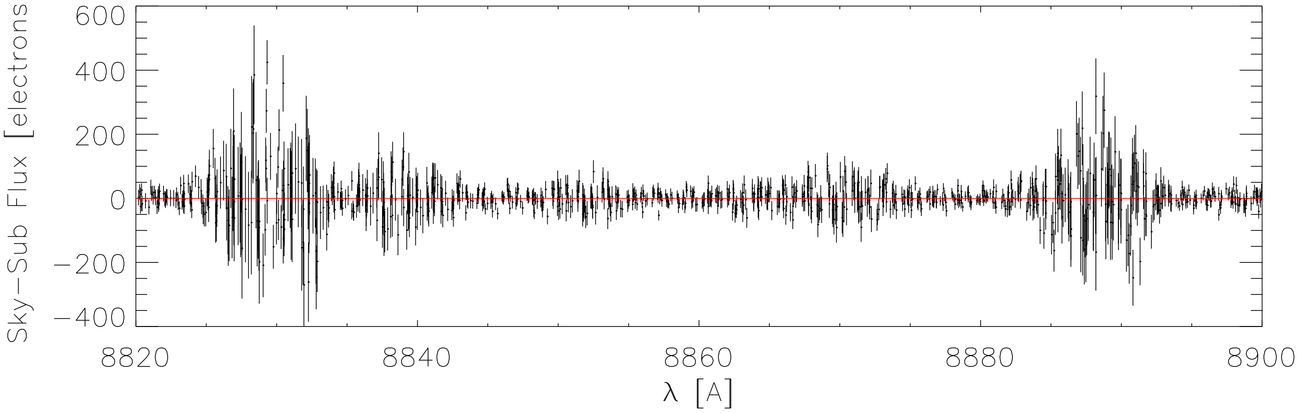
PLATE=2185 MJD=53527 Smooth superflat for sdR-r2-00032994.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= 0.0000
6000
7000
8000
9000
Wavelength (Å)


PLATE=2185 MJD=53527 sdR-r2-00032994.fit 1D Sky-subtraction Sky Fibers
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

PLATE=2185 MJD=53527 sdR-r2-00032994.fit 1D Sky-subtraction Sky Fibers

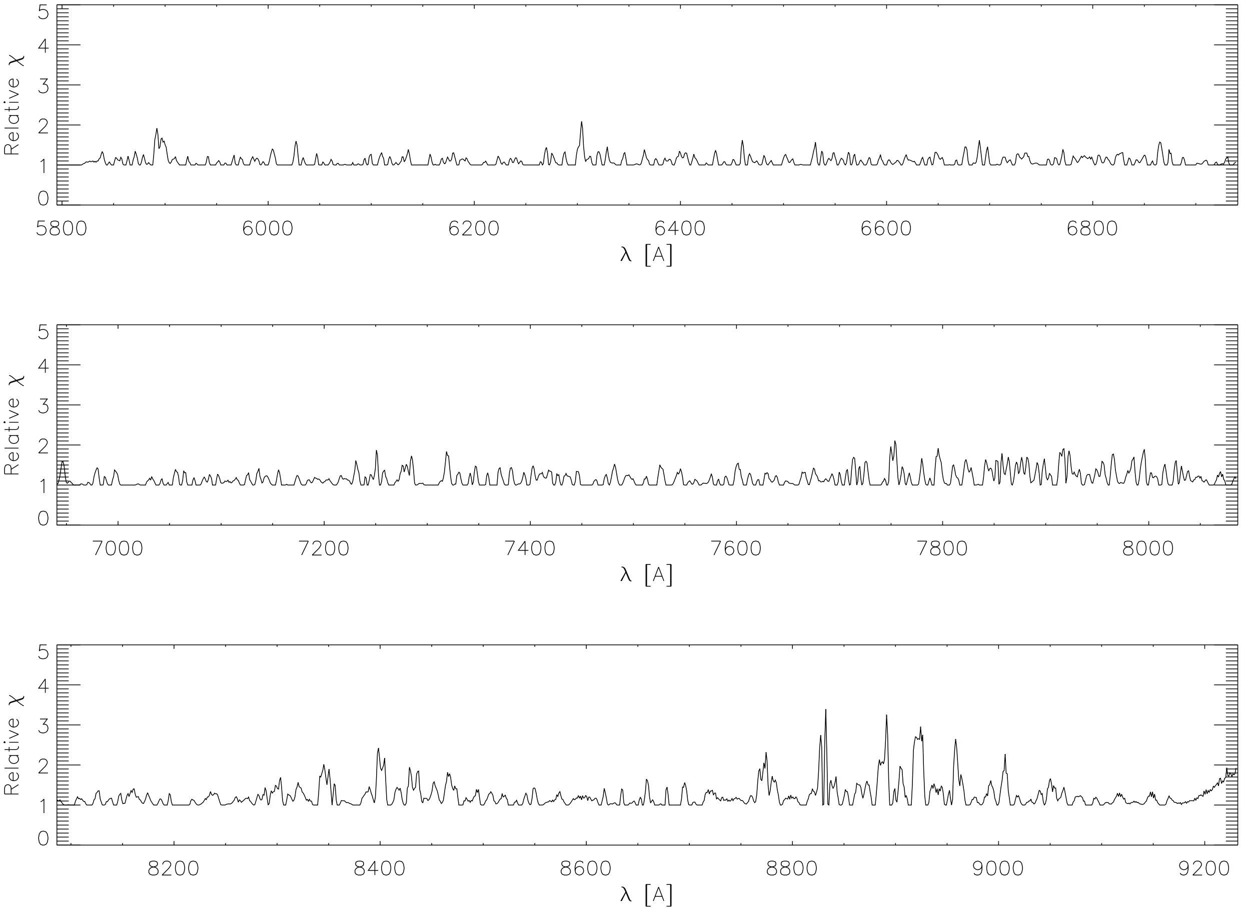


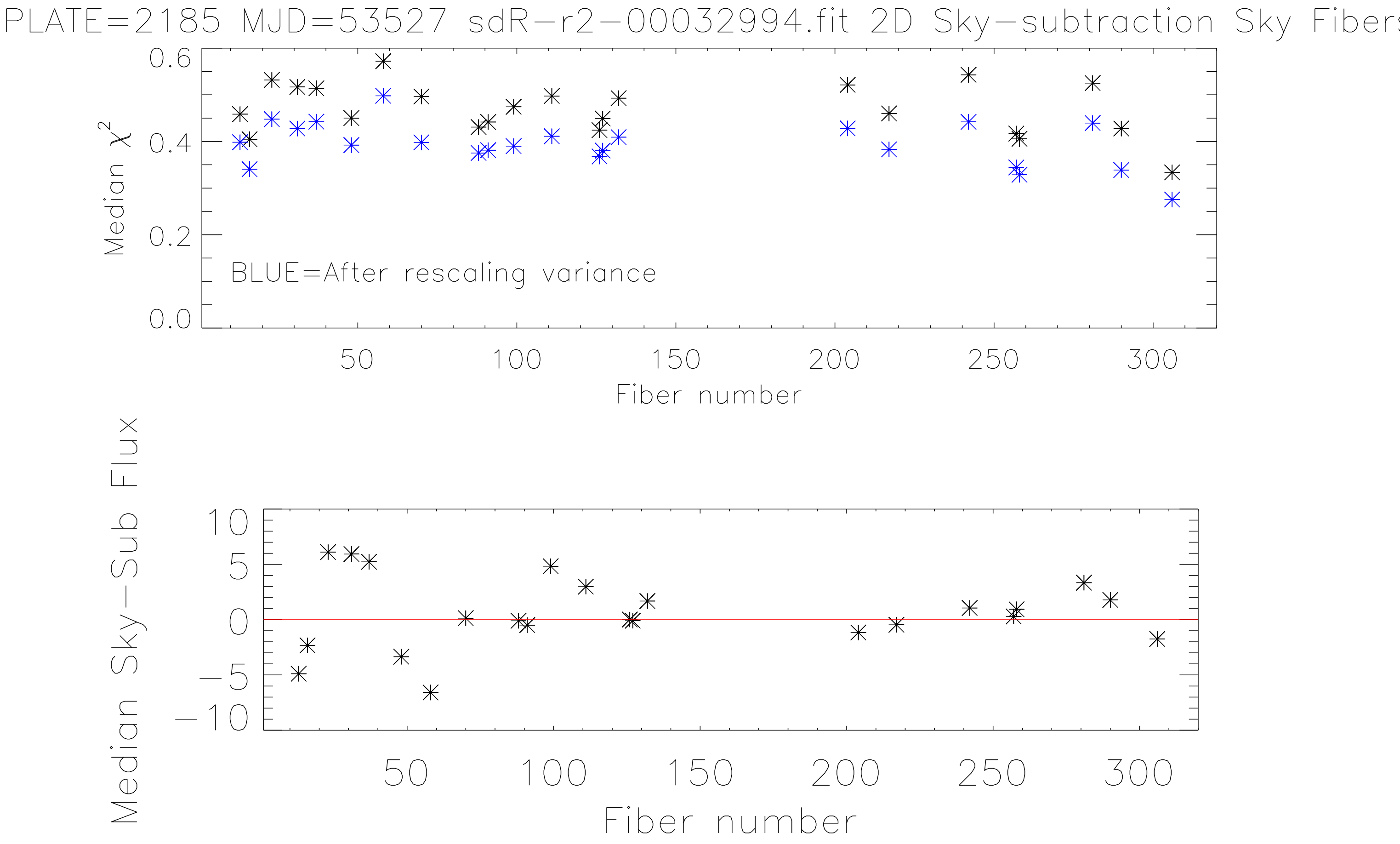
PLATE=2185 MJD=53527 sdR-r2-00032994.fit 1D Sky-subtraction Sky-subtracted Sky F

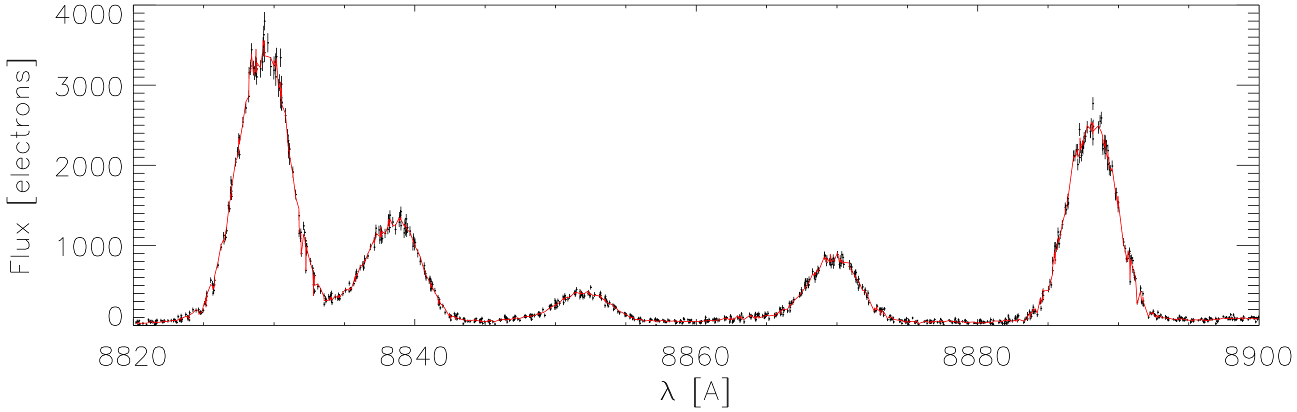


Number of sky fibers = 23

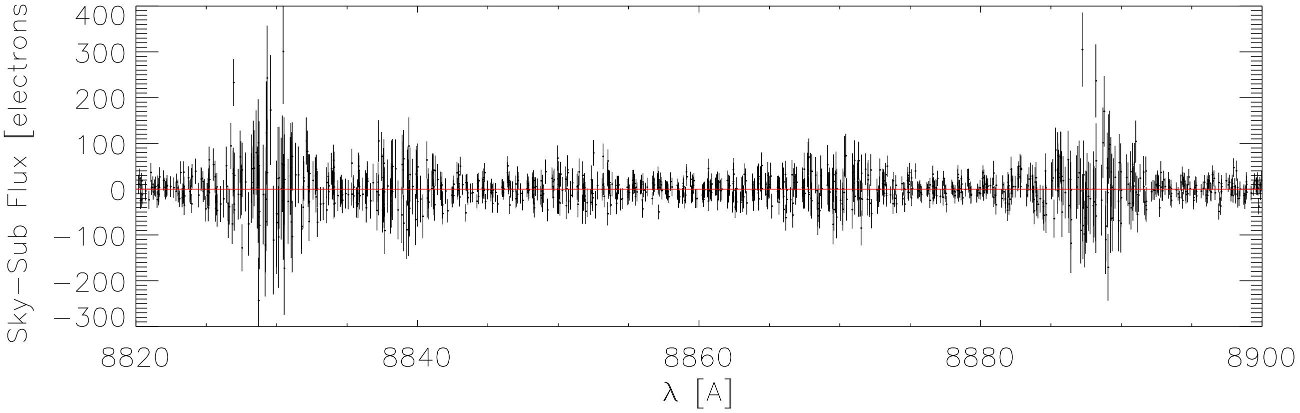
PLATE=2185 MJD=53527 sdR-r2-00032994.fit 1D Sky-subtraction Rescaled Errors




PLATE=2185 MJD=53527 sdR-r2-00032994.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
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number



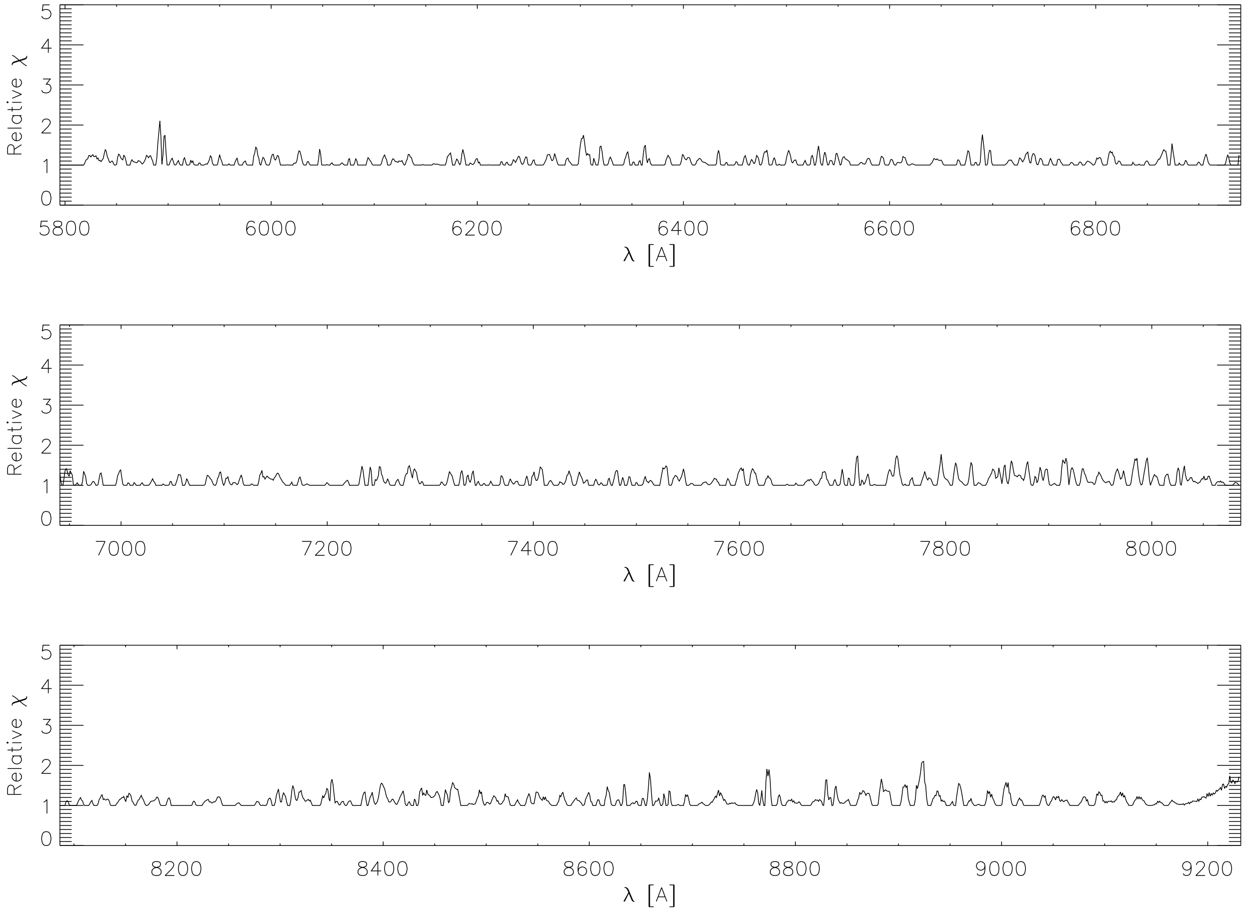
PLATE=2185 MJD=53527 sdR-r2-00032994.fit 2D Sky-subtraction Sky Fibers

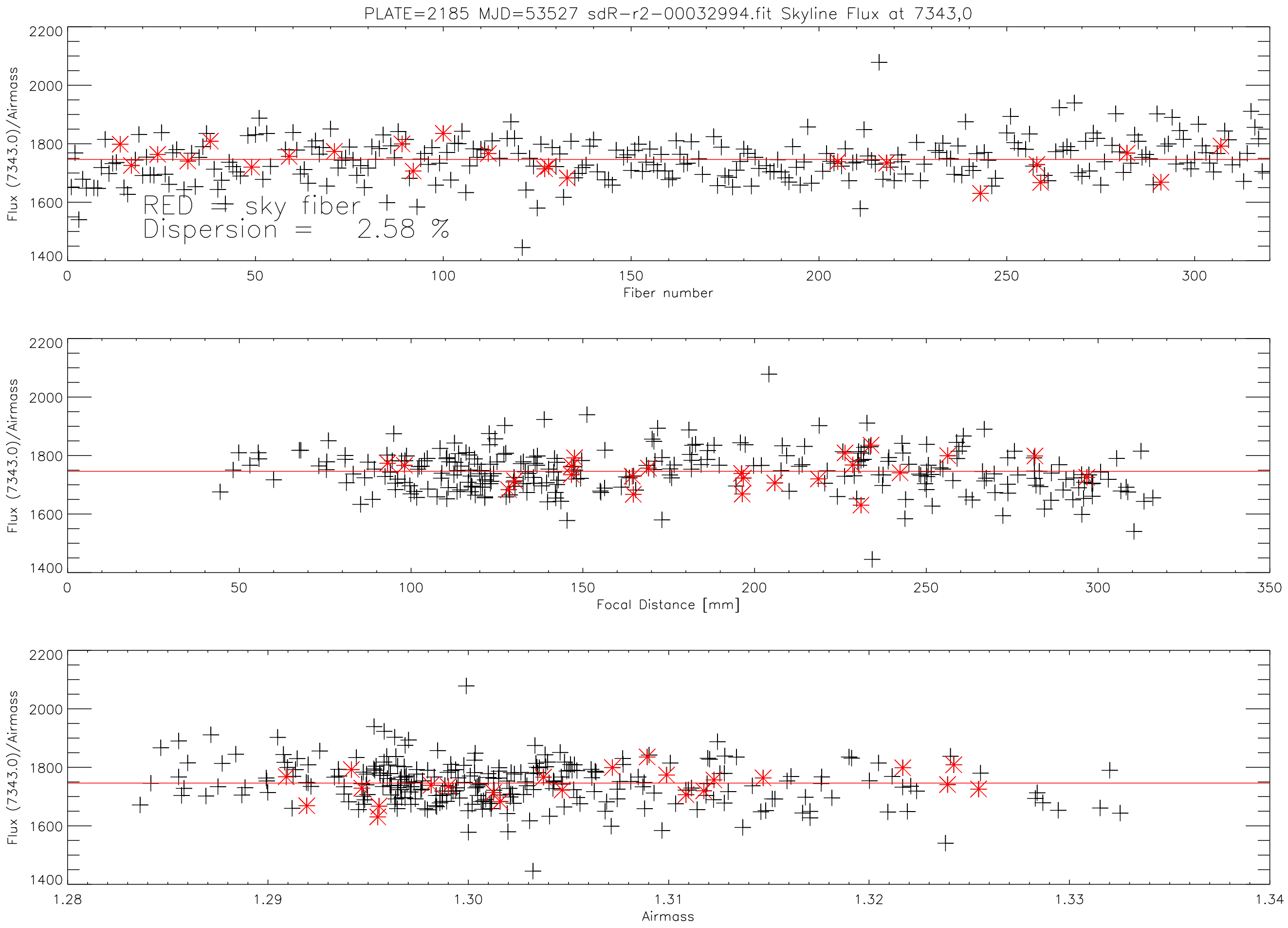


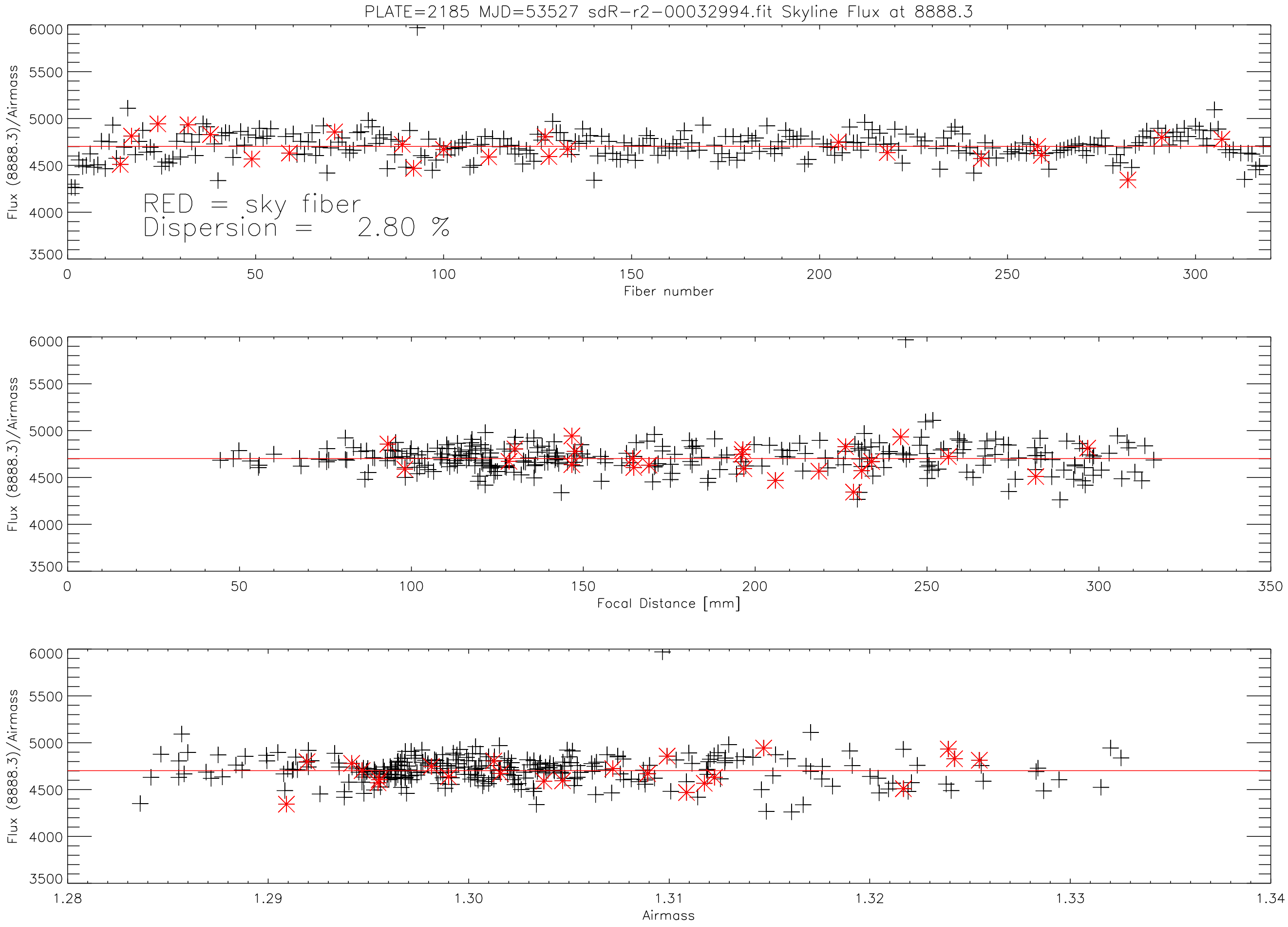
PLATE=2185 MJD=53527 sdR-r2-00032994.fit 2D Sky-subtraction Sky-subtracted Sky F

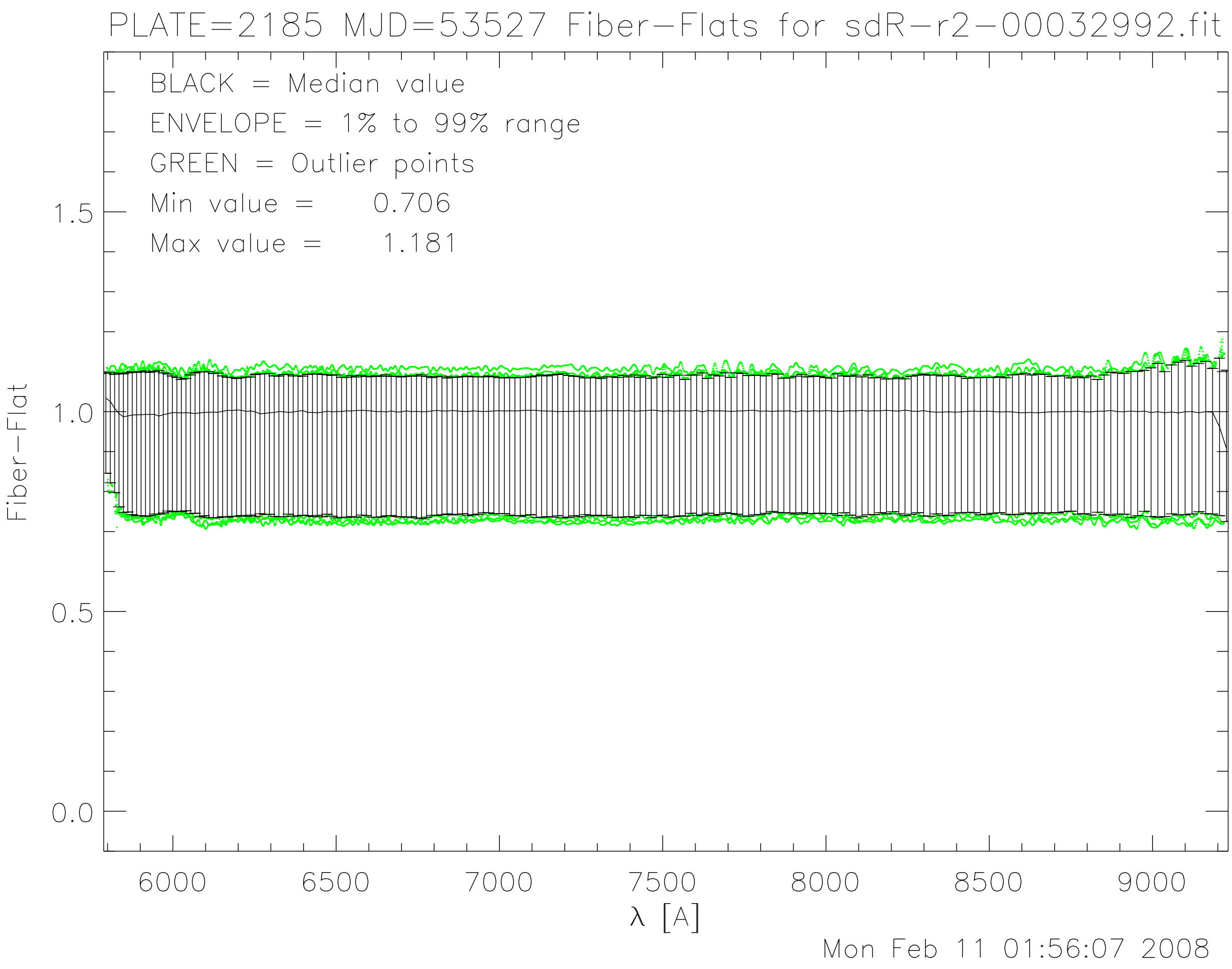
Number of sky fibers = 23

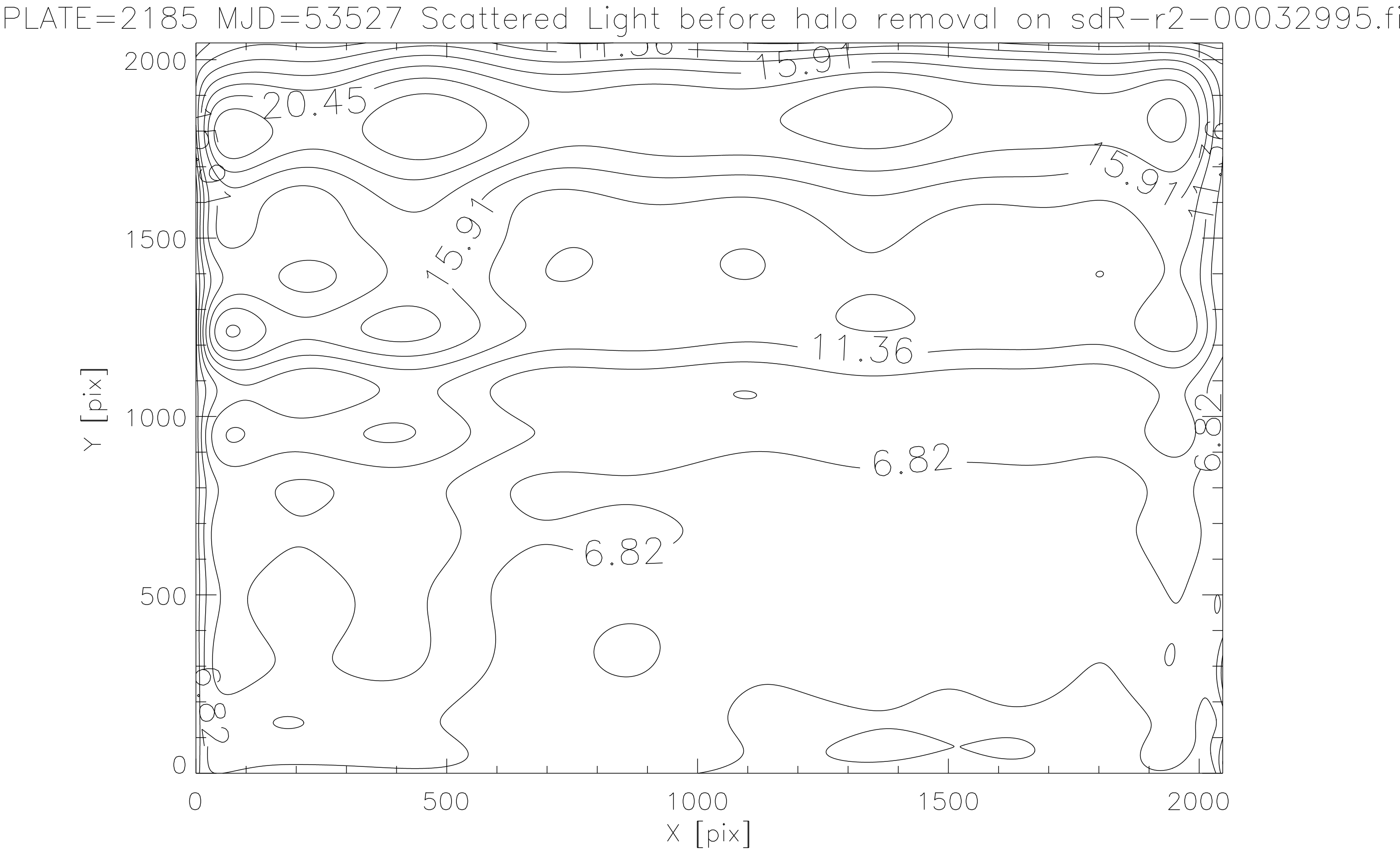
PLATE=2185 MJD=53527 sdR-r2-00032994.fit 2D Sky-subtraction Rescaled Errors



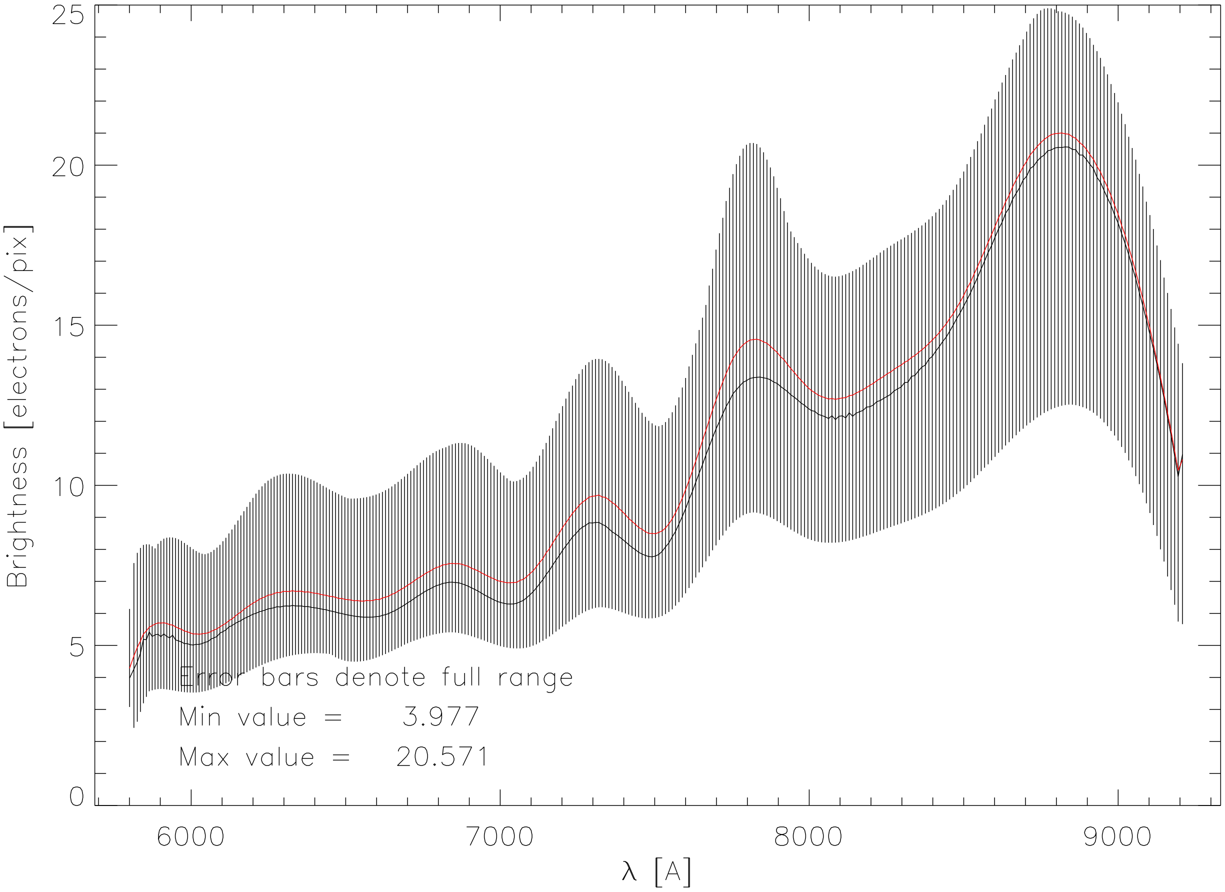

PLATE=2185 MJD=53527 sdR-r2-00032994.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
2200
2000
1800
1600
1400
RED = sky fiber
Dispersion = 2.58 %
0
50
100
150
200
250
300
Fiber number
Flux (7343.0)/Airmass
2200
2000
1800
1600
1400
0
50
100
150
200
250
300
350
Focal Distance [mm]
Flux (7343.0)/Airmass
2200
2000
1800
1600
1400
1.28
1.29
1.30
1.31
1.32
1.33
1.34
Airmass


PLATE=2185 MJD=53527 sdR-r2-00032994.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
6000
5500
5000
4500
4000
3500
0
50
100
150
200
250
300
Fiber number
RED = sky fiber
Dispersion = 2.80 %
Flux (8888.3)/Airmass
6000
5500
5000
4500
4000
3500
0
50
100
150
200
250
300
350
Focal Distance [mm]
Flux (8888.3)/Airmass
6000
5500
5000
4500
4000
3500
1.28
1.29
1.30
1.31
1.32
1.33
1.34
Airmass

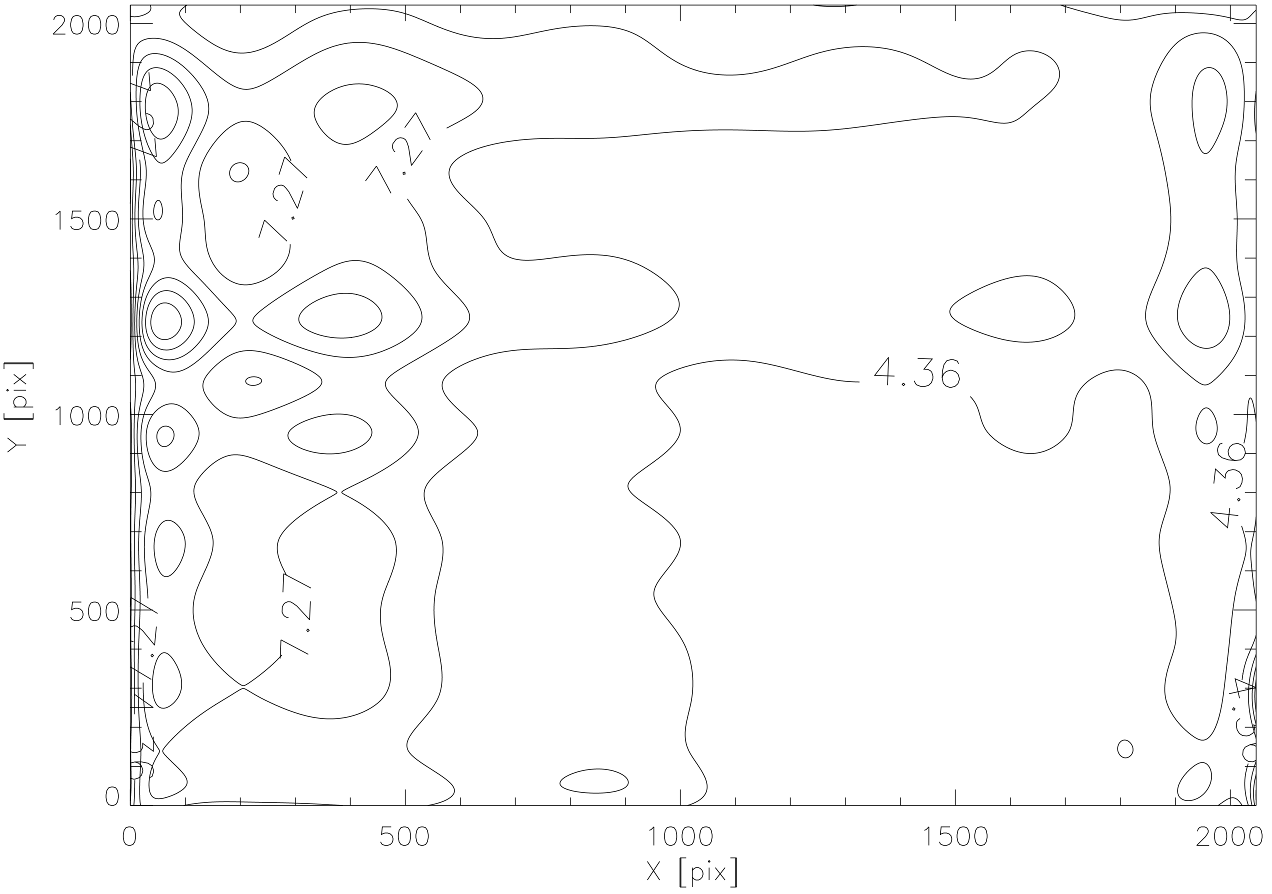

PLATE=2185 MJD=53527 Fiber−Flats for sdR−r2−00032992.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.706
Max value = 1.181
Fiber−Flat
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]
Mon Feb 11 01:56:07 2008


PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-r2-00032995.fi
Y [pix]
X [pix]
0
500
1000
1500
2000
20.45
15.91
11.36
6.82

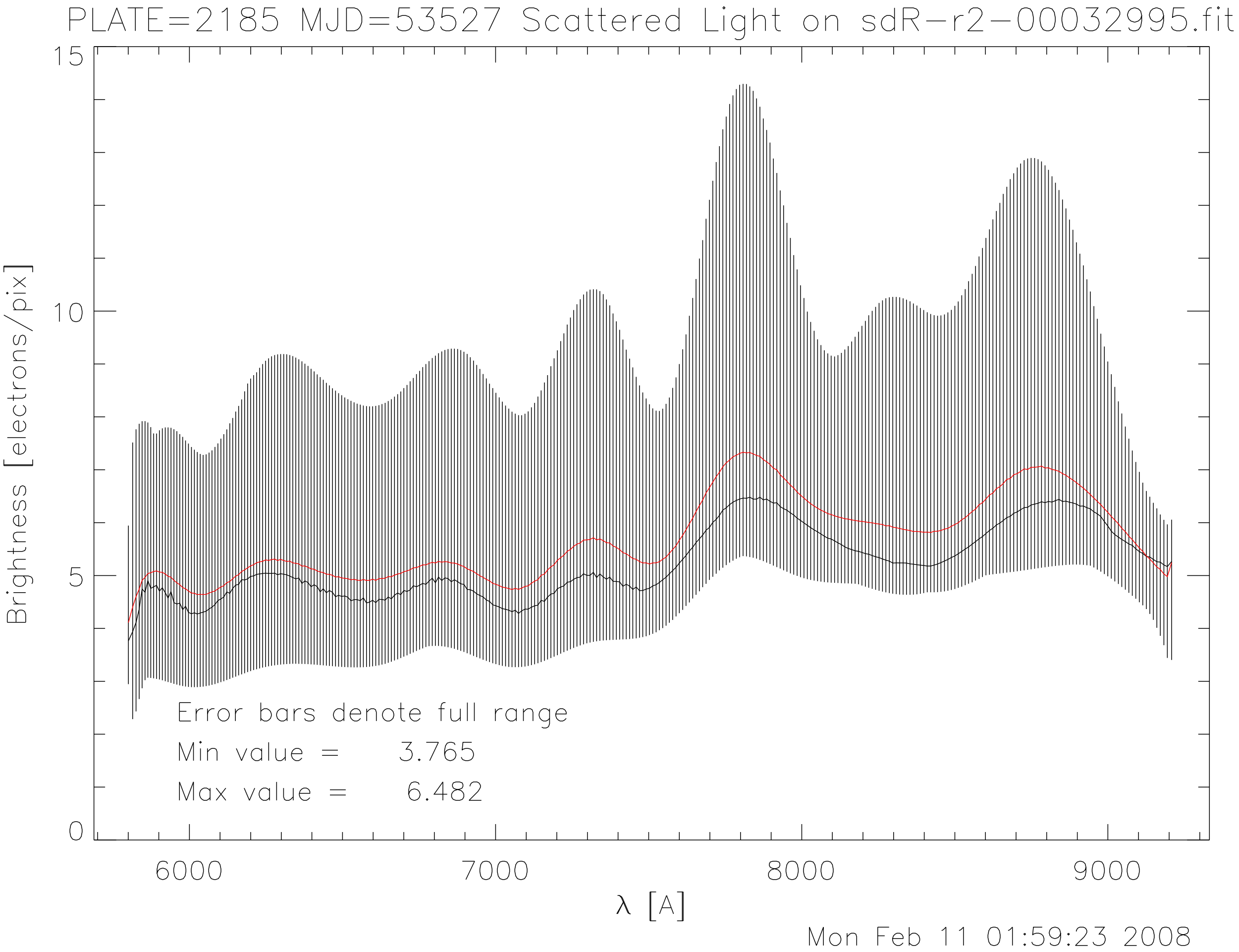
PLATE=2185 MJD=53527 Scattered Light before halo removal on sdR-r2-00032995.fi

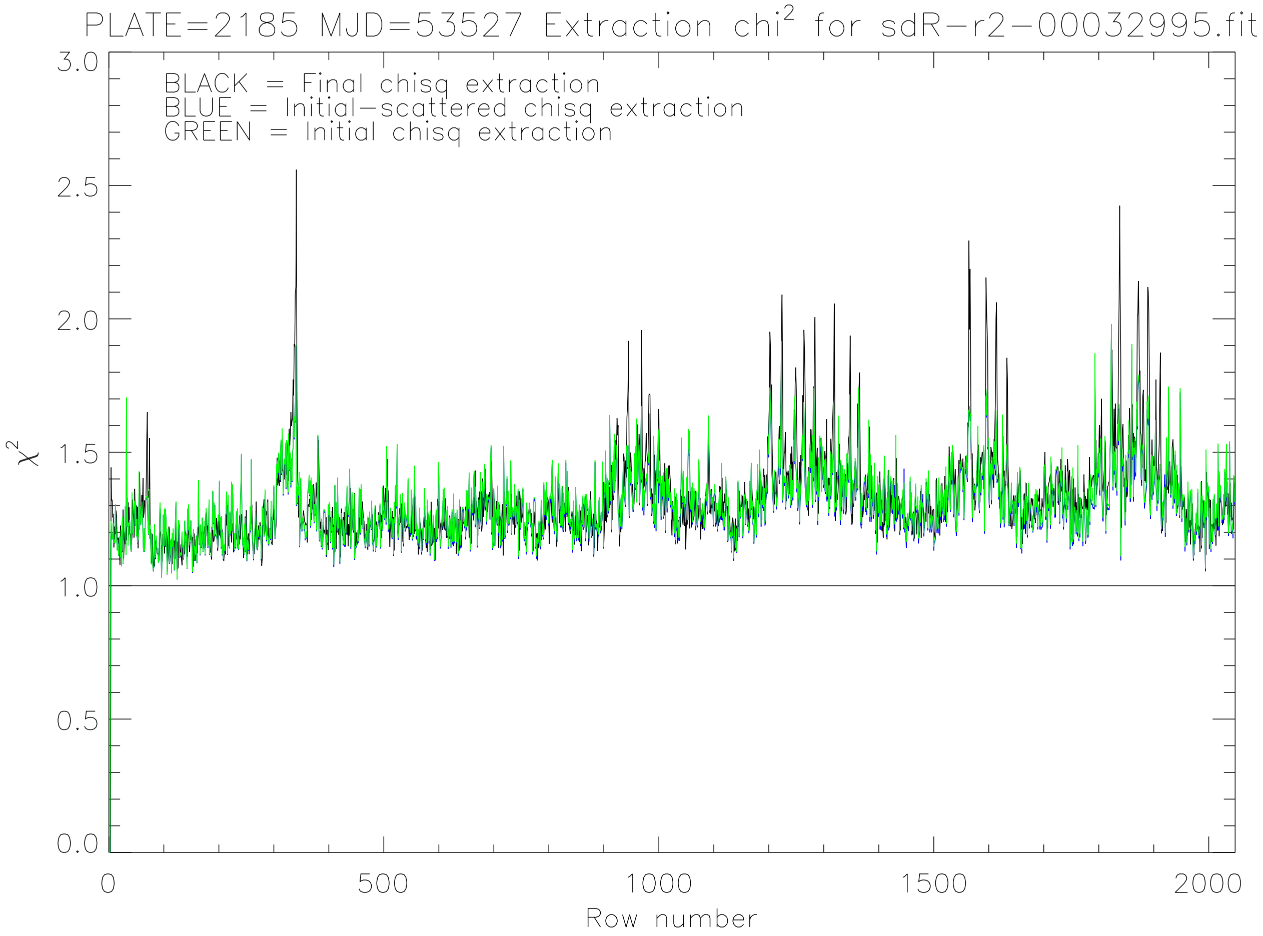


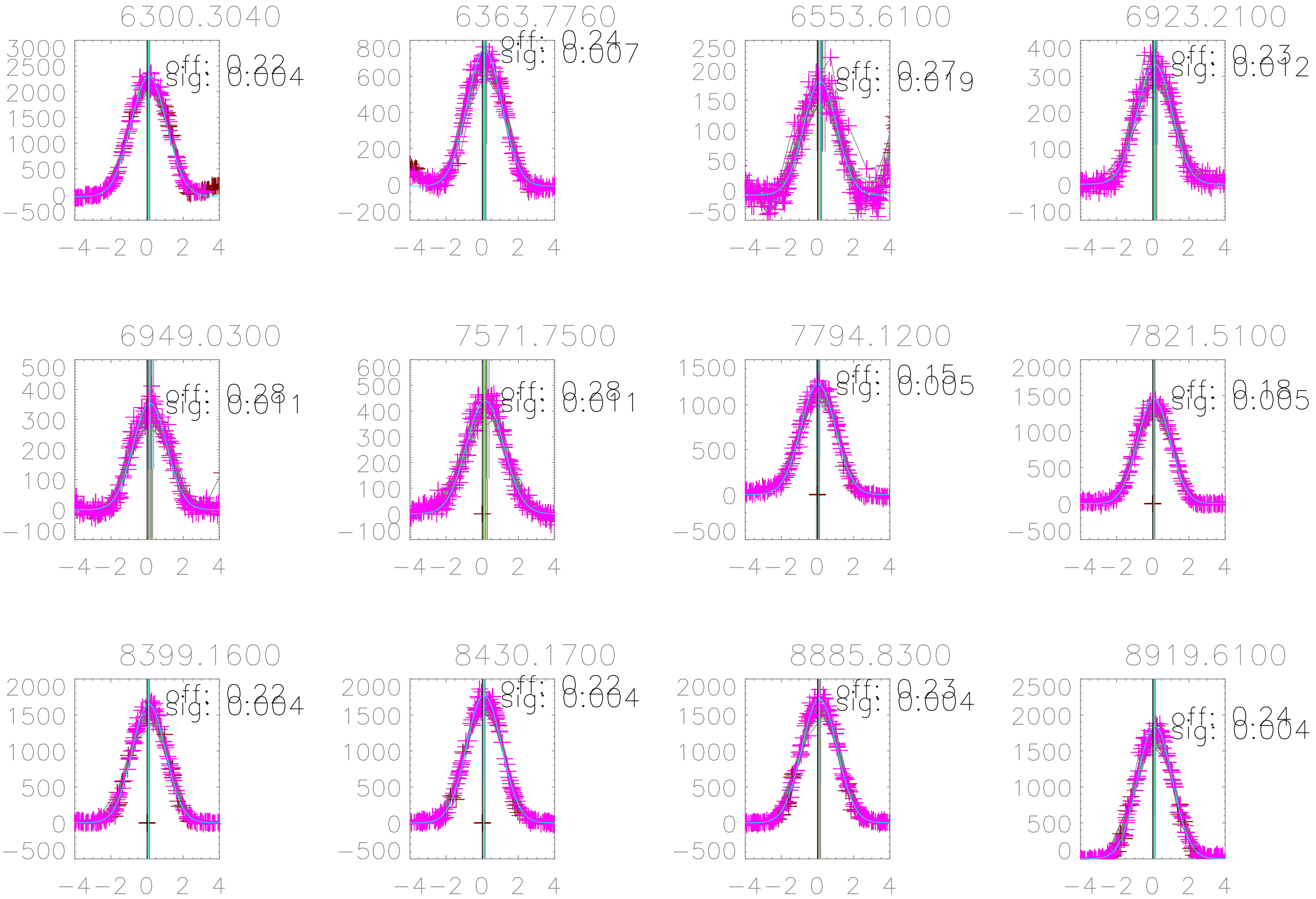
Mon Feb 11 01:56:54 2008

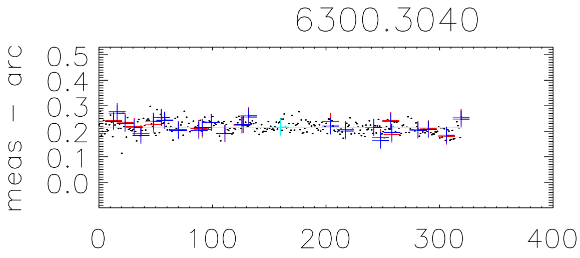


PLATE=2185 MJD=53527 Scattered Light on sdR-r2-00032995.fit

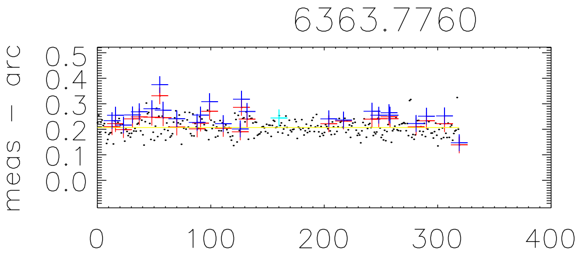

PLATE=2185 MJD=53527 Scattered Light on sdR-r2-00032995.fit
Brightness [electrons/pix]
0
5
10
15
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 3.765
Max value = 6.482
Mon Feb 11 01:59:23 2008


PLATE=2185 MJD=53527 Extraction chi^2 for sdR-r2-00032995.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

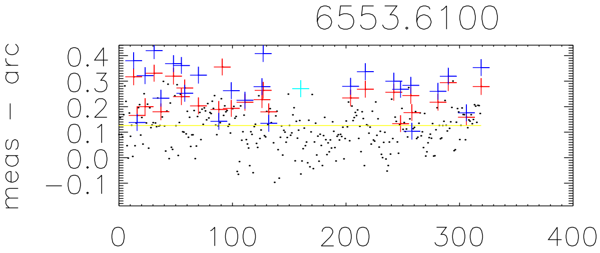

6300.3040
off: 0.22
sig: 0.004
6363.7760
off: 0.24
sig: 0.007
6553.6100
off: 0.27
sig: 0.019
6923.2100
off: 0.23
sig: 0.012
6949.0300
off: 0.28
sig: 0.011
7571.7500
off: 0.28
sig: 0.011
7794.1200
off: 0.15
sig: 0.005
7821.5100
off: 0.18
sig: 0.005
8399.1600
off: 0.22
sig: 0.004
8430.1700
off: 0.22
sig: 0.004
8885.8300
off: 0.23
sig: 0.004
8919.6100
off: 0.24
sig: 0.004
−4 −2 0 2 4



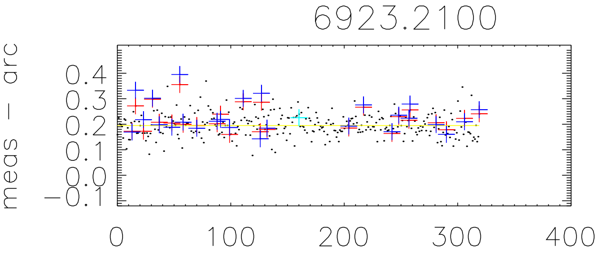
6300.3040



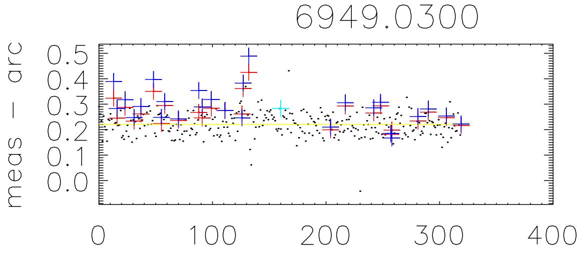
6363.7760



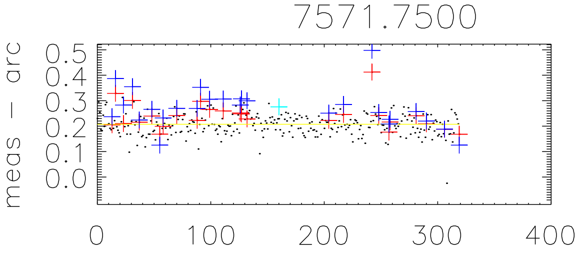
6553.6100



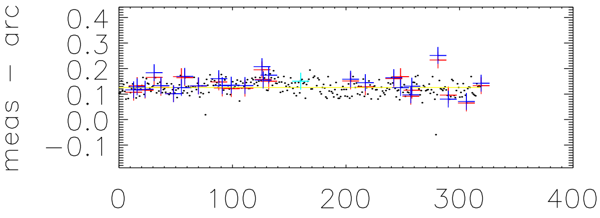
6923.2100

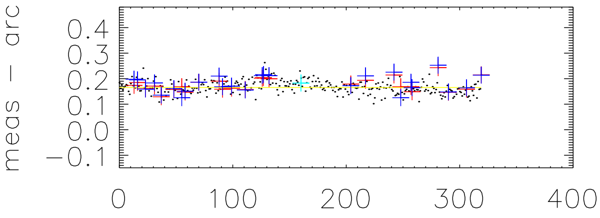


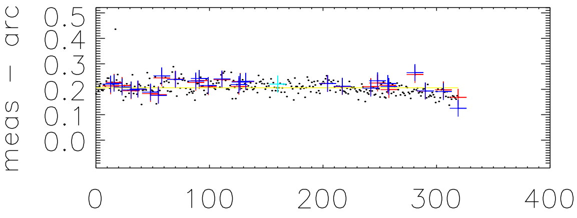
6949.0300

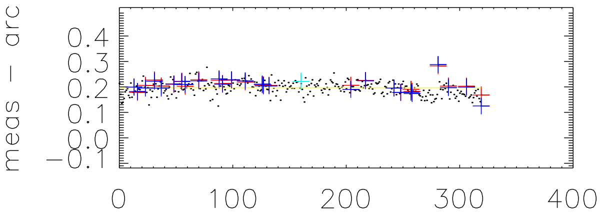


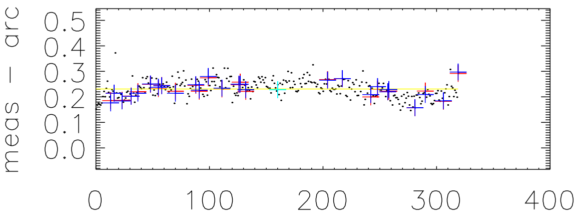
7571.7500

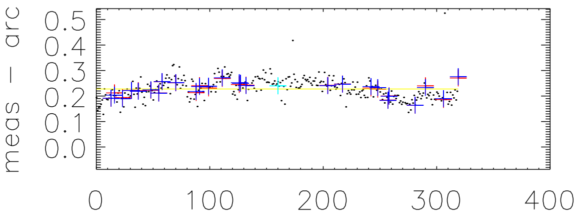

7794.1200

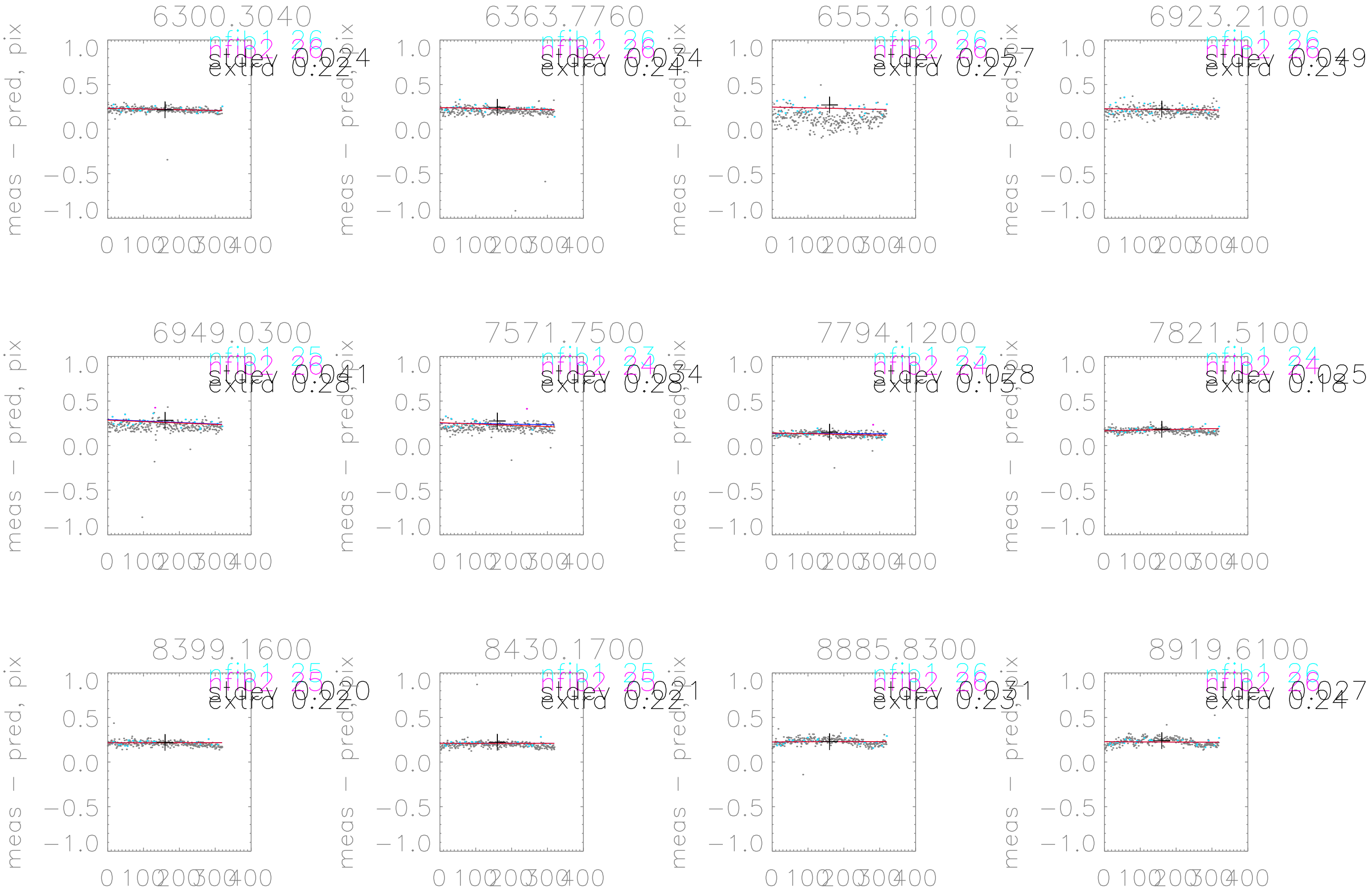

7821.5100

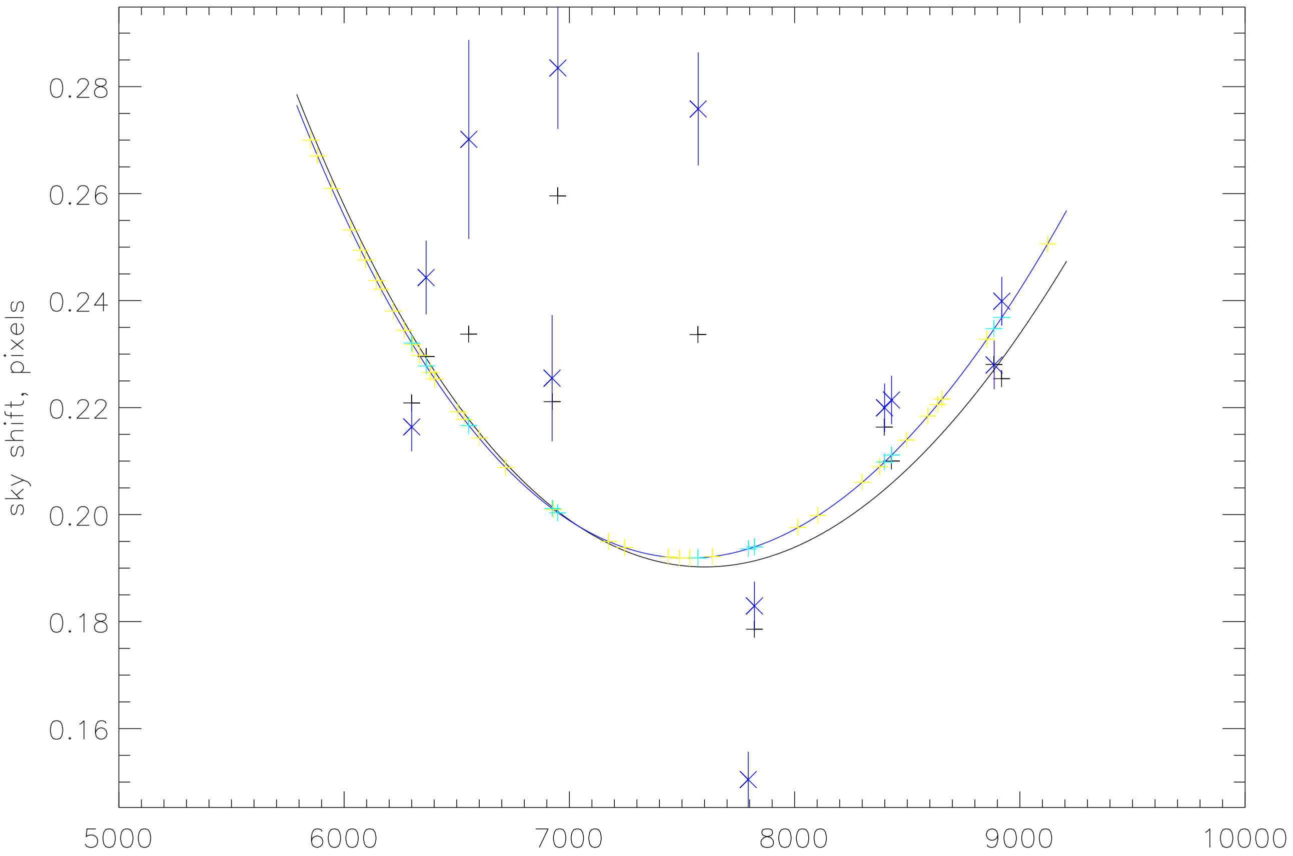

8399.1600

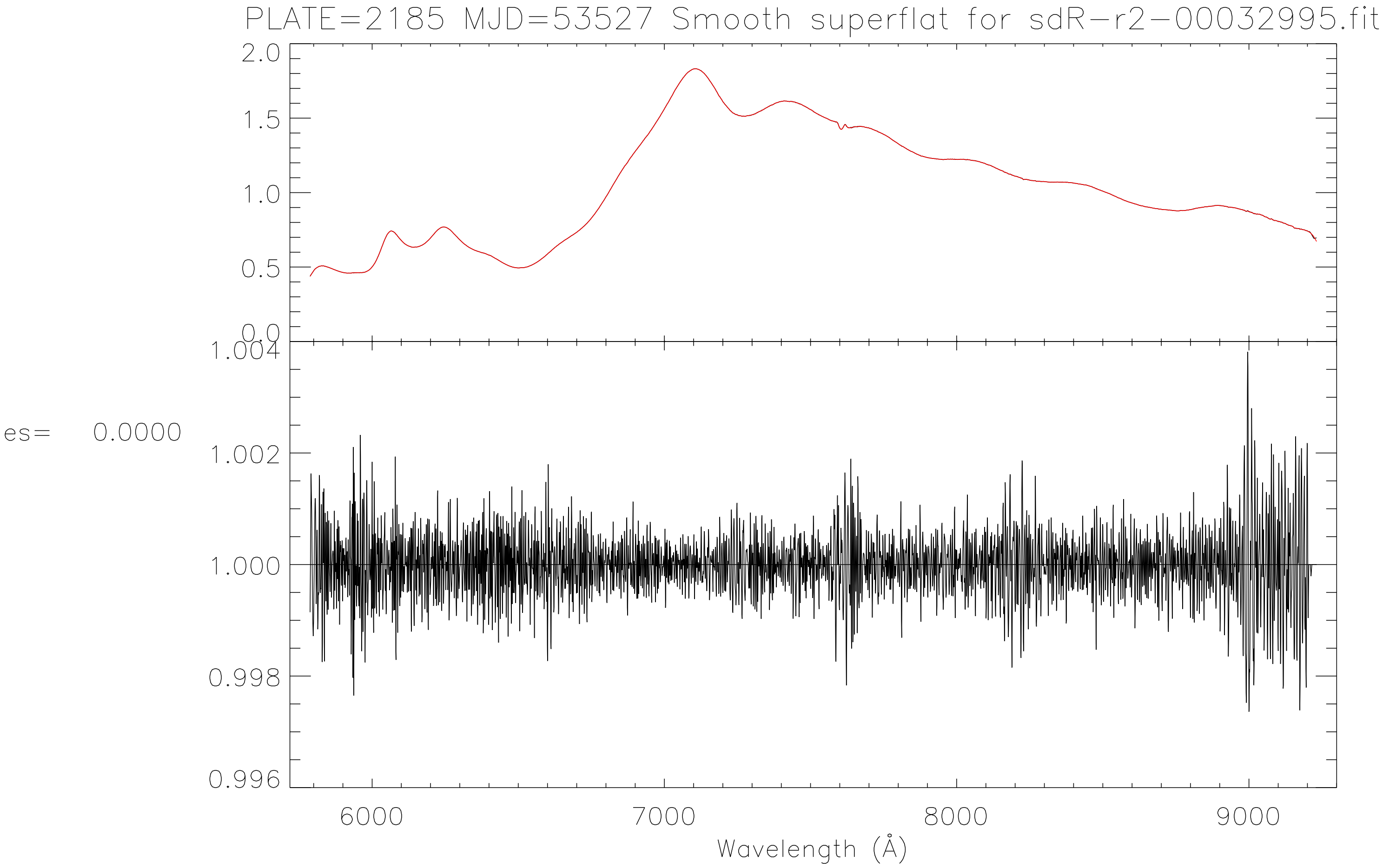

8430.1700

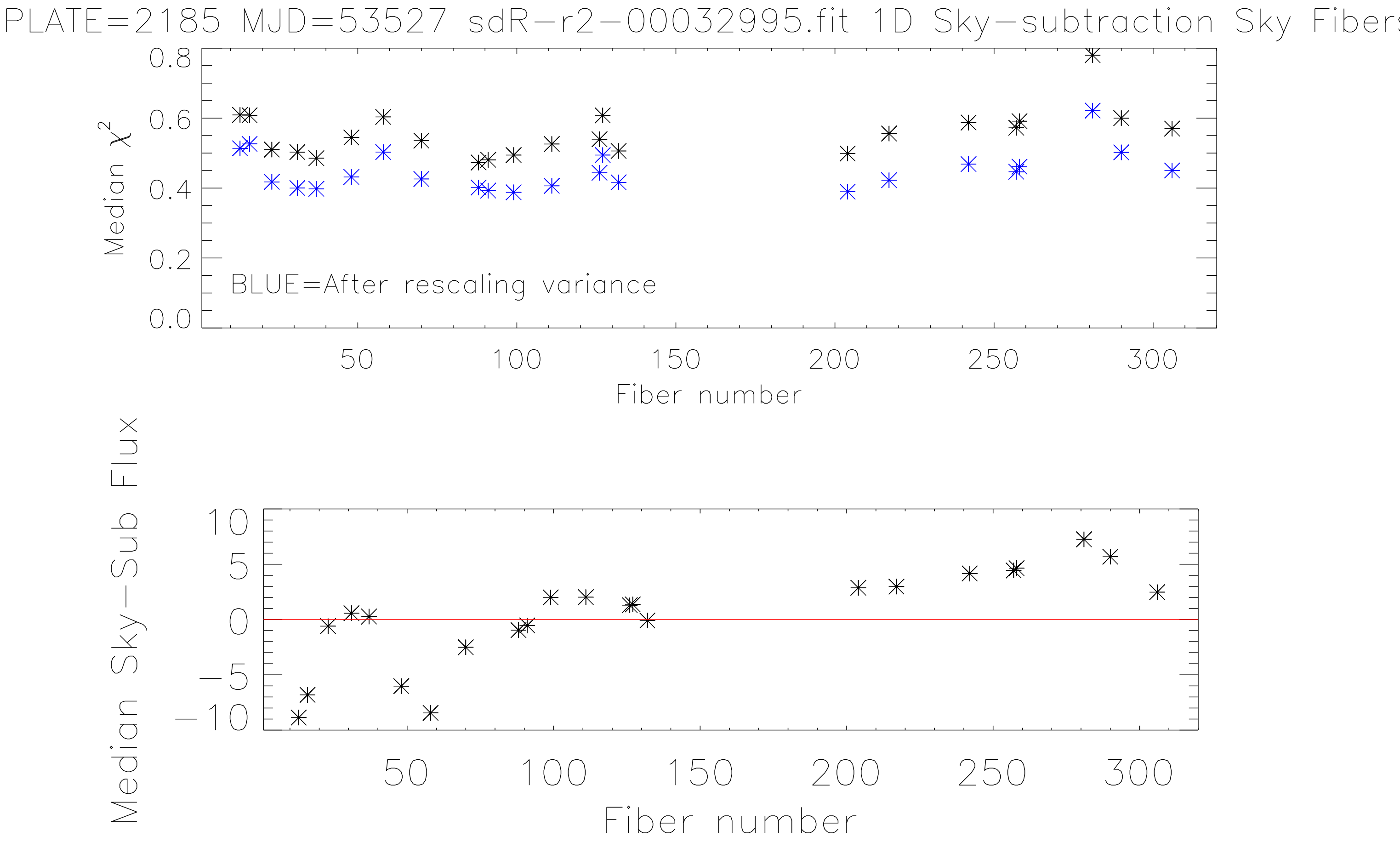

8885.8300

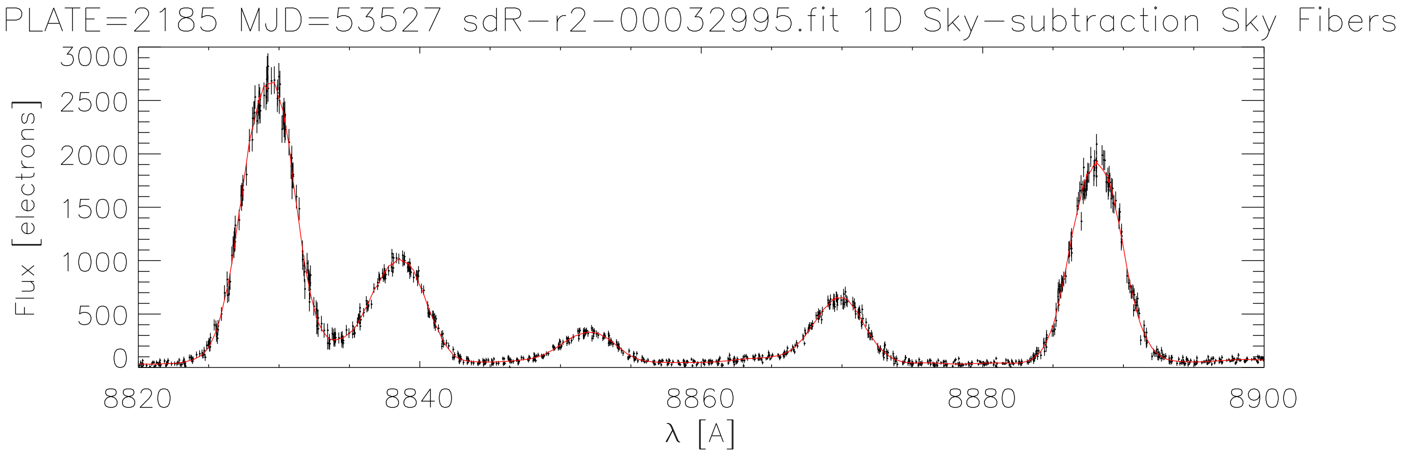

8919.6100

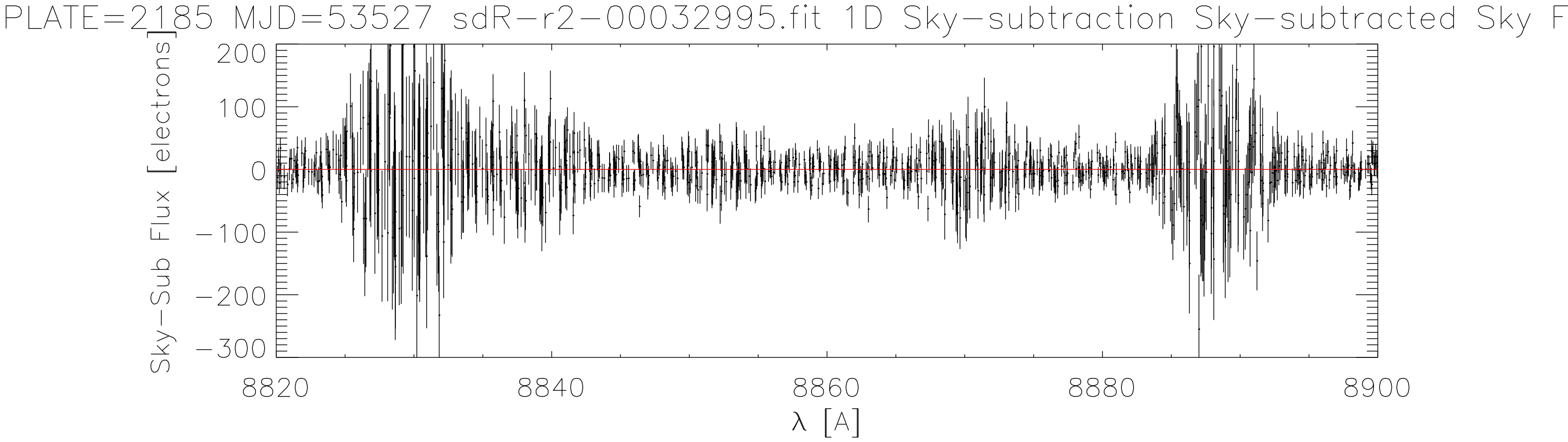

6300.3040
nfib1 26
nfib2 26
stdev 0.024
extrd 0.22
6363.7760
nfib1 26
nfib2 26
stdev 0.034
extrd 0.24
6553.6100
nfib1 26
nfib2 26
stdev 0.057
extrd 0.27
6923.2100
nfib1 26
nfib2 26
stdev 0.049
extrd 0.23
6949.0300
nfib1 25
nfib2 26
stdev 0.041
extrd 0.28
7571.7500
nfib1 23
nfib2 24
stdev 0.034
extrd 0.28
7794.1200
nfib1 23
nfib2 24
stdev 0.028
extrd 0.15
7821.5100
nfib1 24
nfib2 24
stdev 0.025
extrd 0.18
8399.1600
nfib1 25
nfib2 25
stdev 0.020
extrd 0.22
8430.1700
nfib1 25
nfib2 25
stdev 0.021
extrd 0.22
8885.8300
nfib1 26
nfib2 26
stdev 0.031
extrd 0.23
8919.6100
nfib1 26
nfib2 26
stdev 0.027
extrd 0.24
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

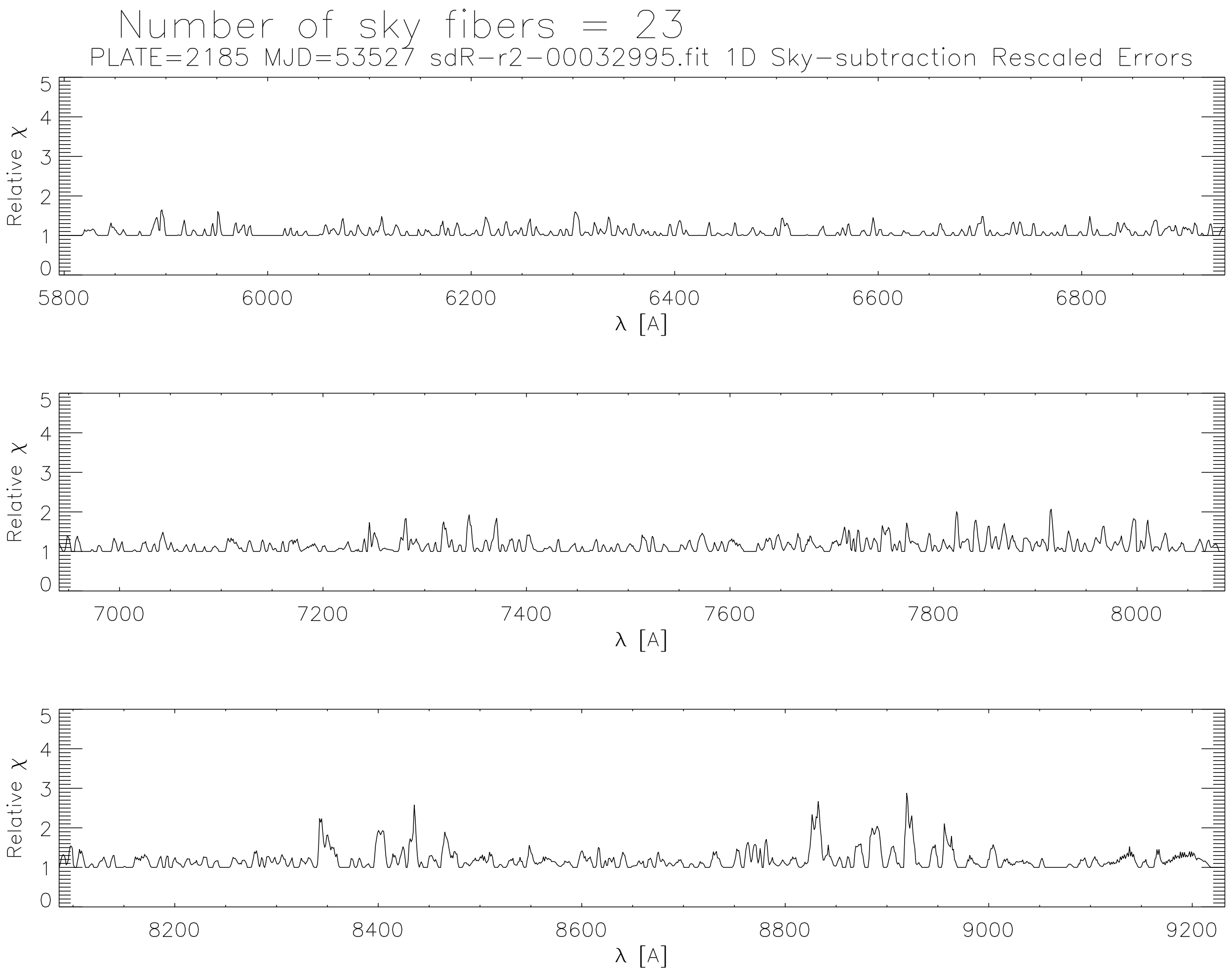

sky shift, pixels
0.28
0.26
0.24
0.22
0.20
0.18
0.16
5000
6000
7000
8000
9000
10000

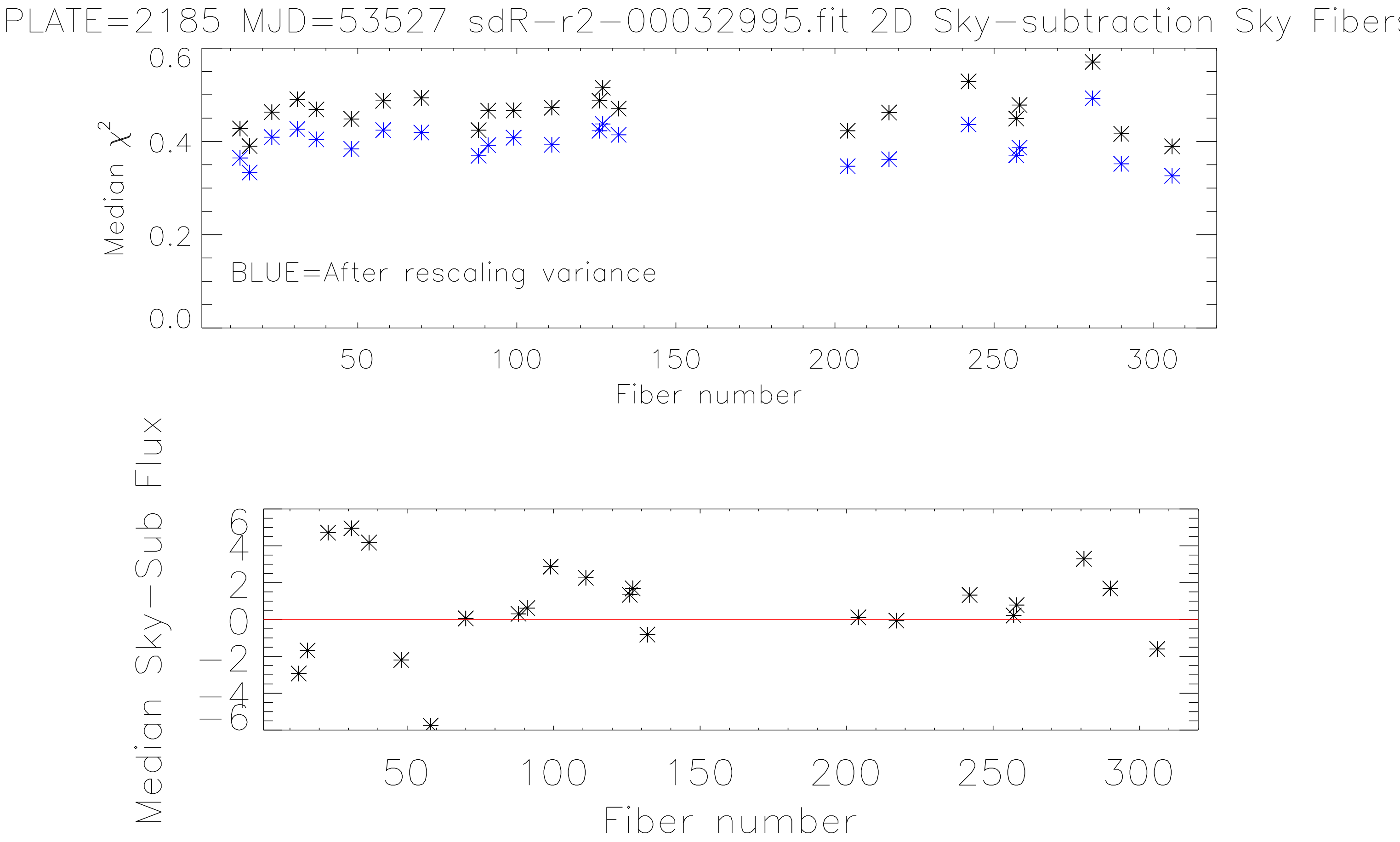

PLATE=2185 MJD=53527 Smooth superflat for sdR-r2-00032995.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es= 0.0000
6000
7000
8000
9000
Wavelength (Å)

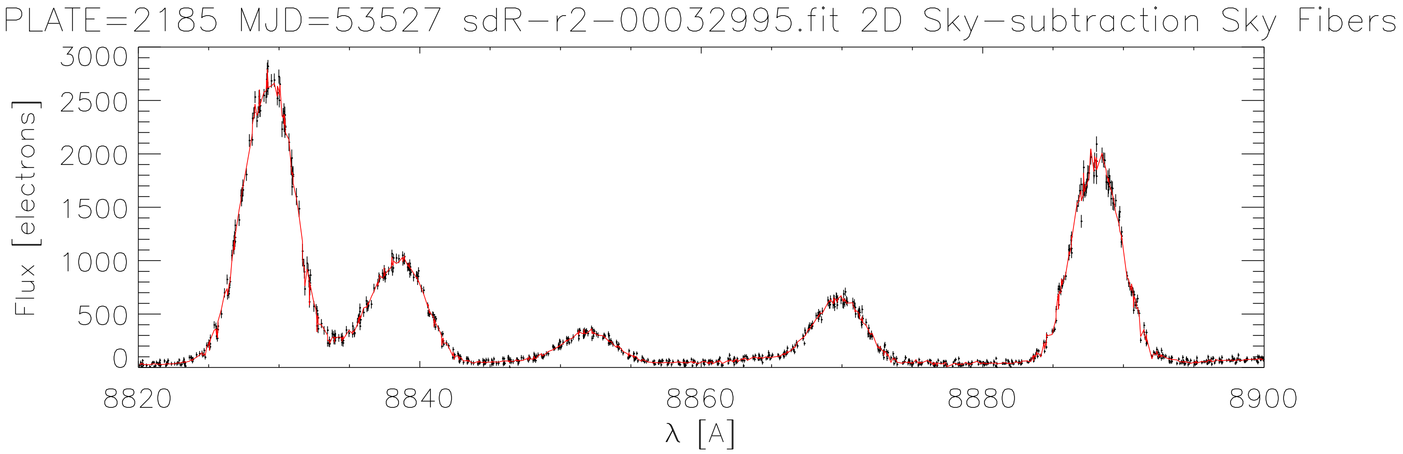

PLATE=2185 MJD=53527 sdR-r2-00032995.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−10
−5
0
5
10
50
100
150
200
250
300
Fiber number

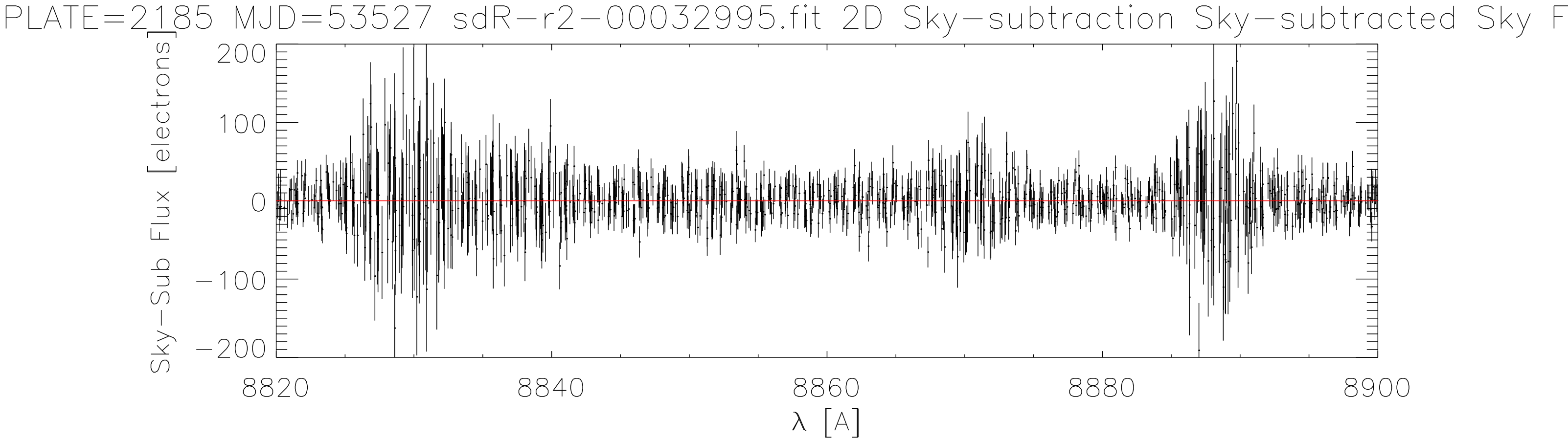

PLATE=2185 MJD=53527 sdR-r2-00032995.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]


PLATE=2185 MJD=53527 sdR-r2-00032995.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
−100
−200
−300
8820
8840
8860
8880
8900
λ [A]


Number of sky fibers = 23
PLATE=2185 MJD=53527 sdR-r2-00032995.fit 1D Sky-subtraction Rescaled Errors
Relative χ
0
1
2
3
4
5
5800
6000
6200
6400
6600
6800
λ [A]
Relative χ
0
1
2
3
4
5
7000
7200
7400
7600
7800
8000
λ [A]
Relative χ
0
1
2
3
4
5
8200
8400
8600
8800
9000
9200
λ [A]

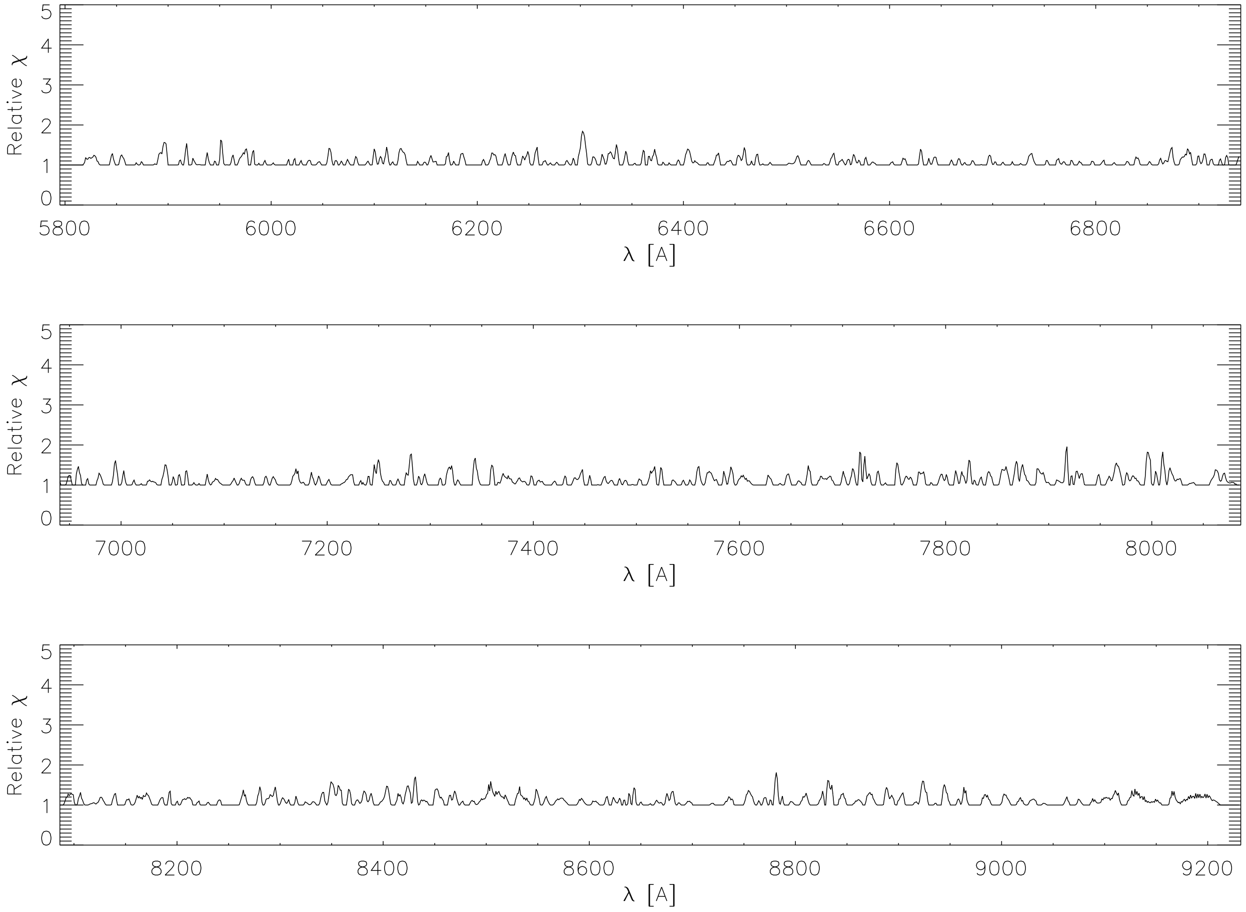

PLATE=2185 MJD=53527 sdR-r2-00032995.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
6
4
2
0
−2
−4
−6
50
100
150
200
250
300
Fiber number

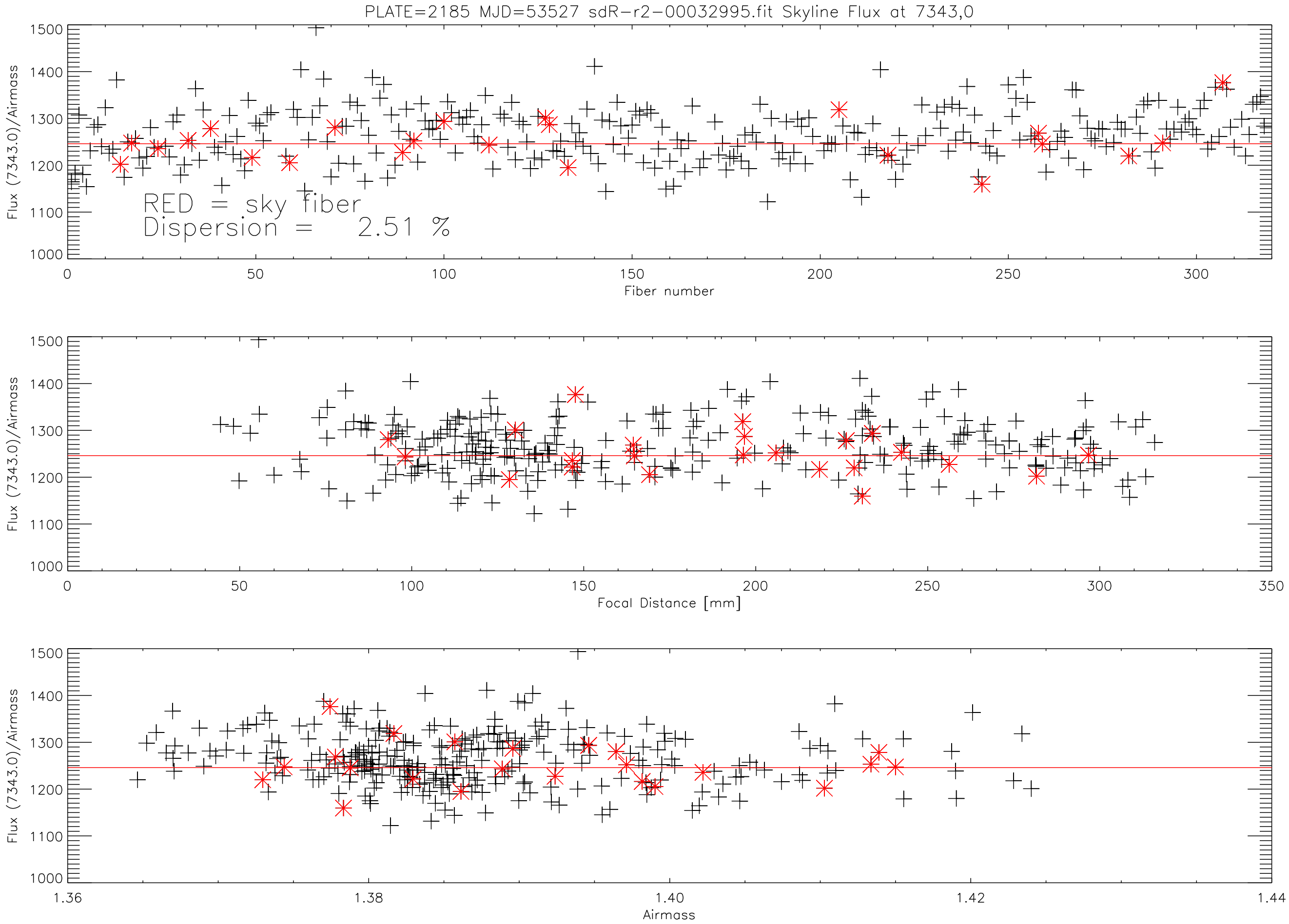

PLATE=2185 MJD=53527 sdR-r2-00032995.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
3000
2500
2000
1500
1000
500
0
8820
8840
8860
8880
8900
λ [A]

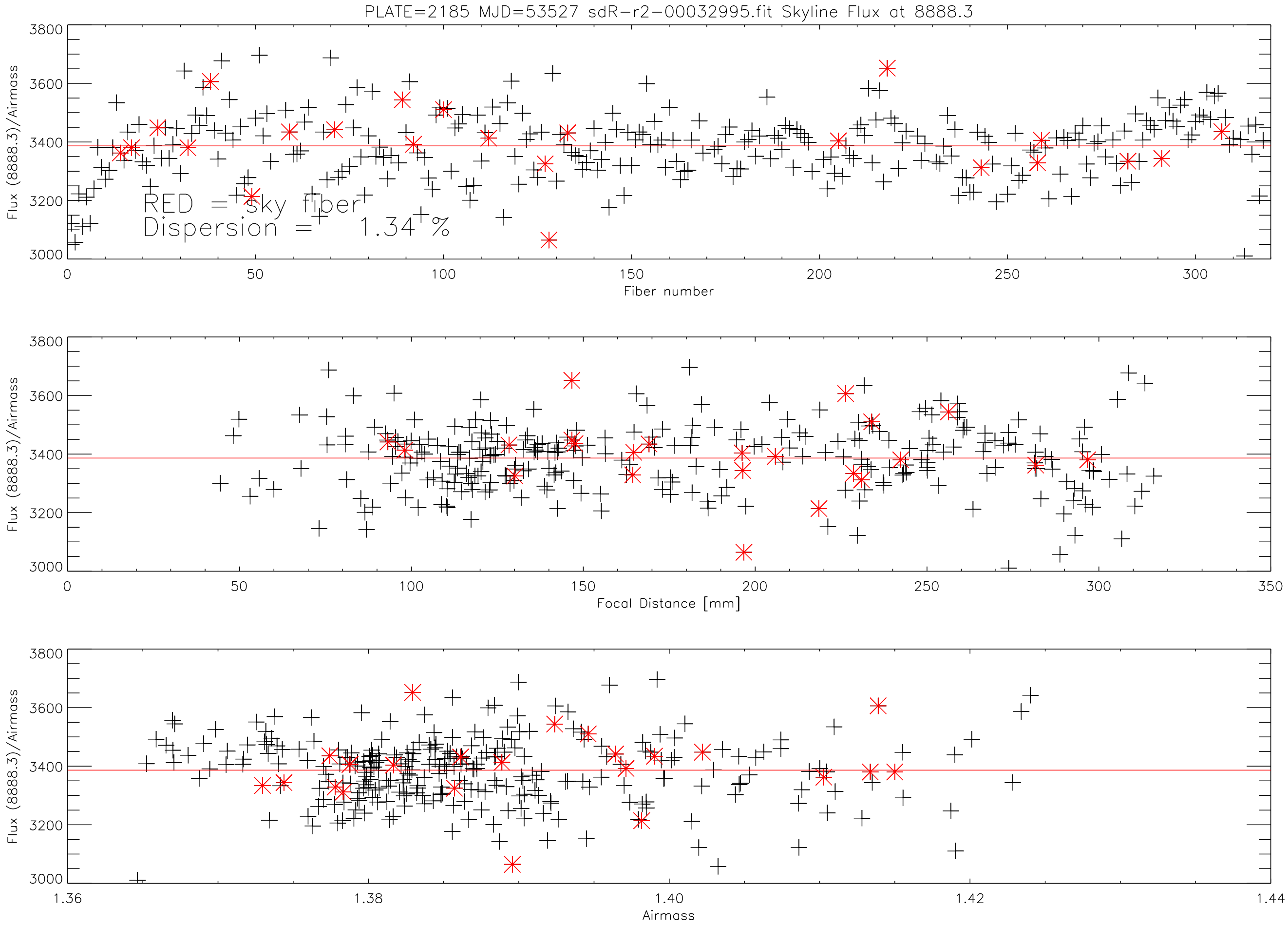

PLATE=2185 MJD=53527 sdR-r2-00032995.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
−100
−200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 23

PLATE=2185 MJD=53527 sdR-r2-00032995.fit 2D Sky-subtraction Rescaled Errors




PLATE=2185 MJD=53527 sdR-r2-00032995.fit Skyline Flux at 7343,0
RED = sky fiber
Dispersion = 2.51 %
Flux (7343.0)/Airmass
1000
1100
1200
1300
1400
1500
0
50
100
150
200
250
300
Fiber number
Flux (7343.0)/Airmass
0
50
100
150
200
250
300
350
Focal Distance [mm]
Flux (7343.0)/Airmass
1.36
1.38
1.40
1.42
1.44
Airmass


PLATE=2185 MJD=53527 sdR-r2-00032995.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
3800
3600
3400
3200
3000
0
50
100
150
200
250
300
Fiber number
RED = sky fiber
Dispersion = 1.34 %
Flux (8888.3)/Airmass
3800
3600
3400
3200
3000
0
50
100
150
200
250
300
350
Focal Distance [mm]
Flux (8888.3)/Airmass
3800
3600
3400
3200
3000
1.36
1.38
1.40
1.42
1.44
Airmass