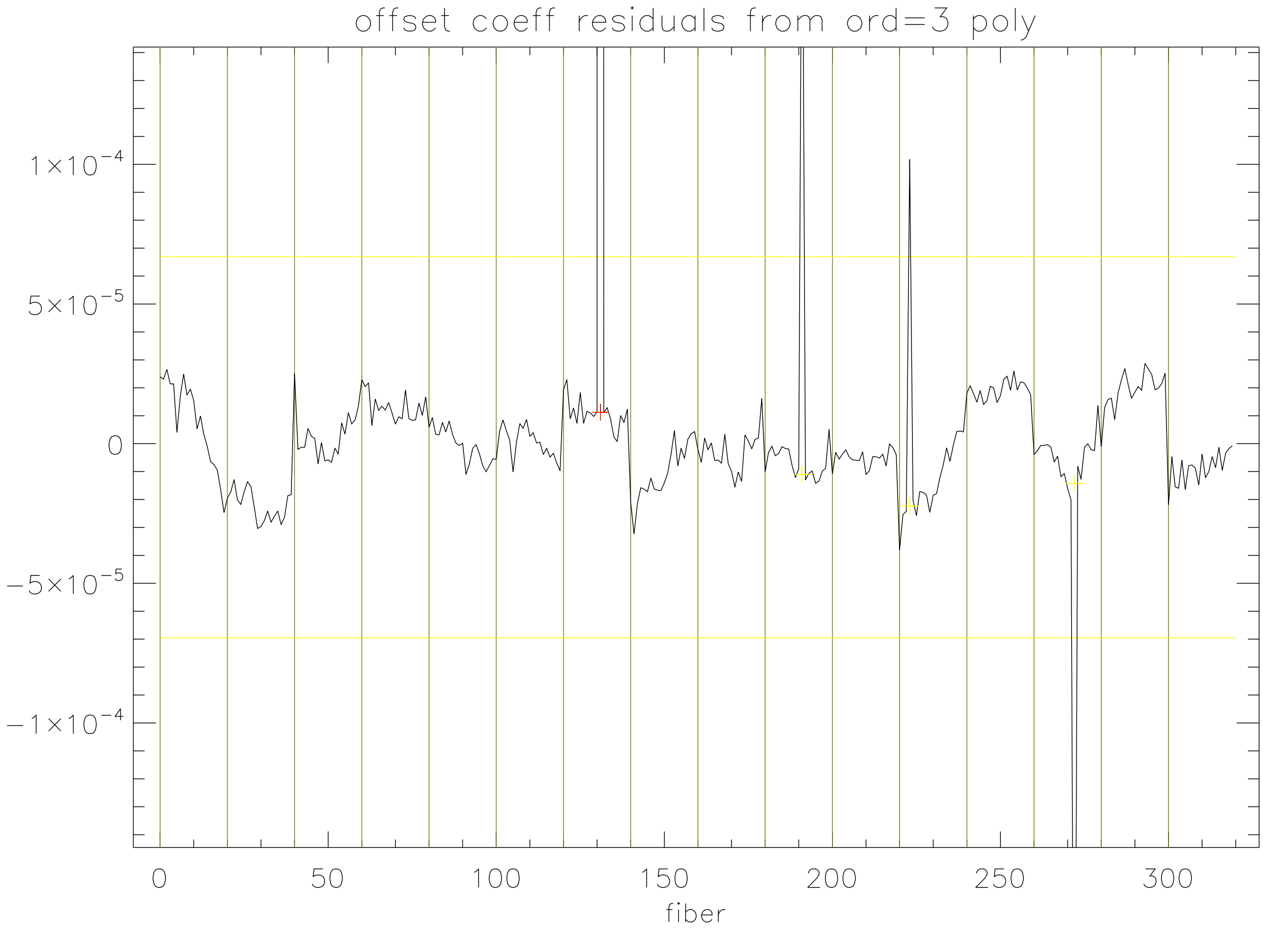
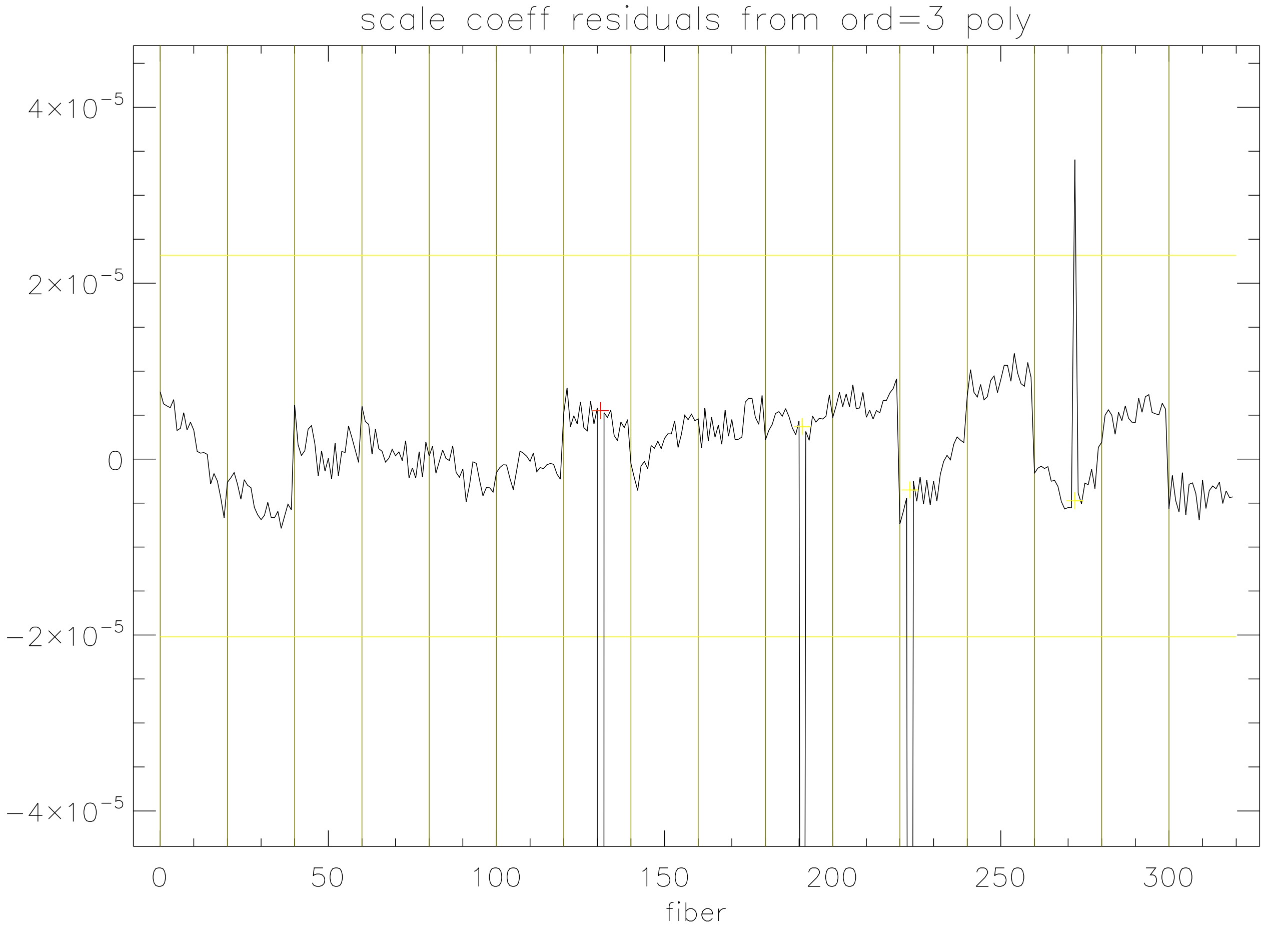
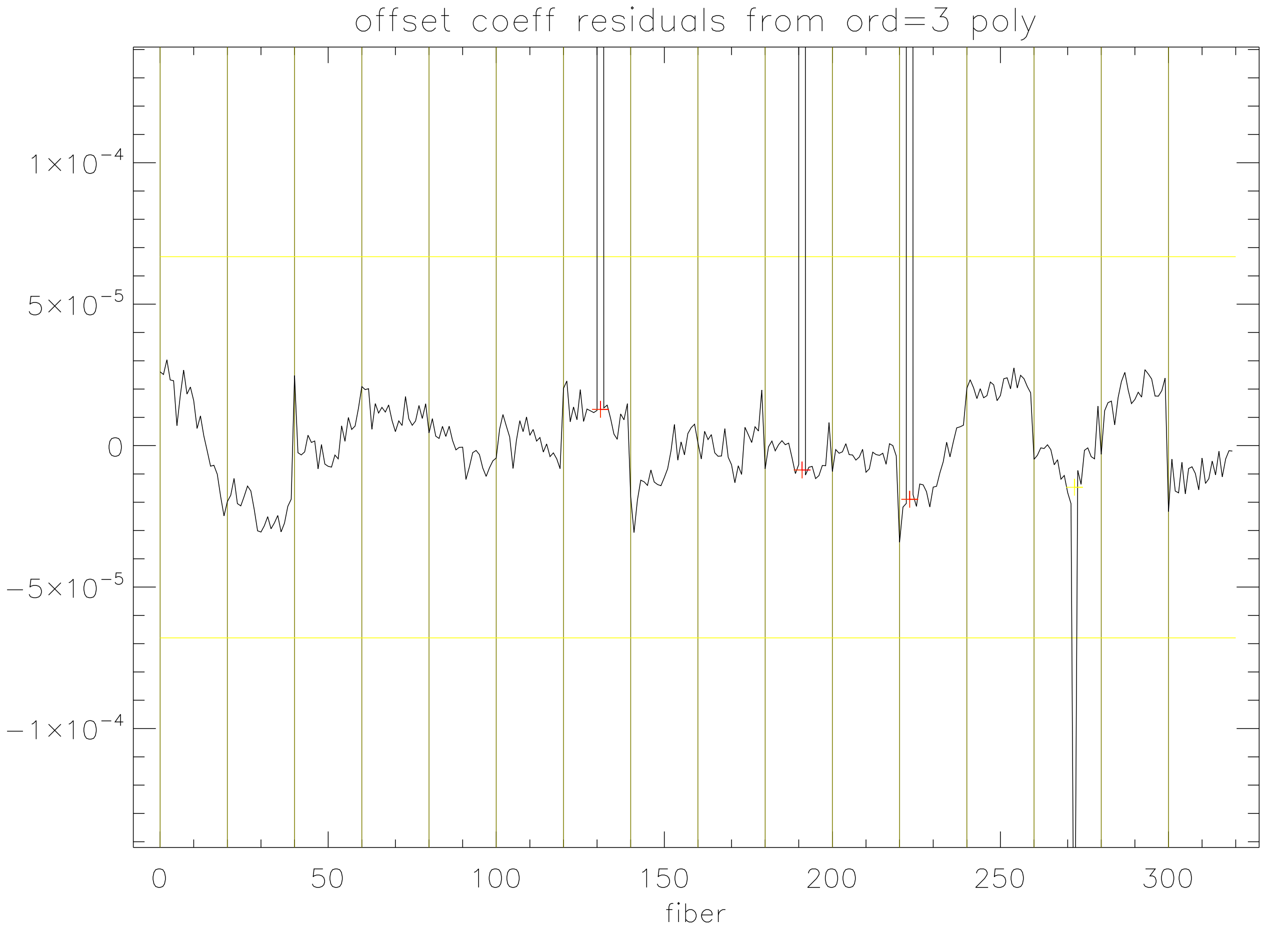
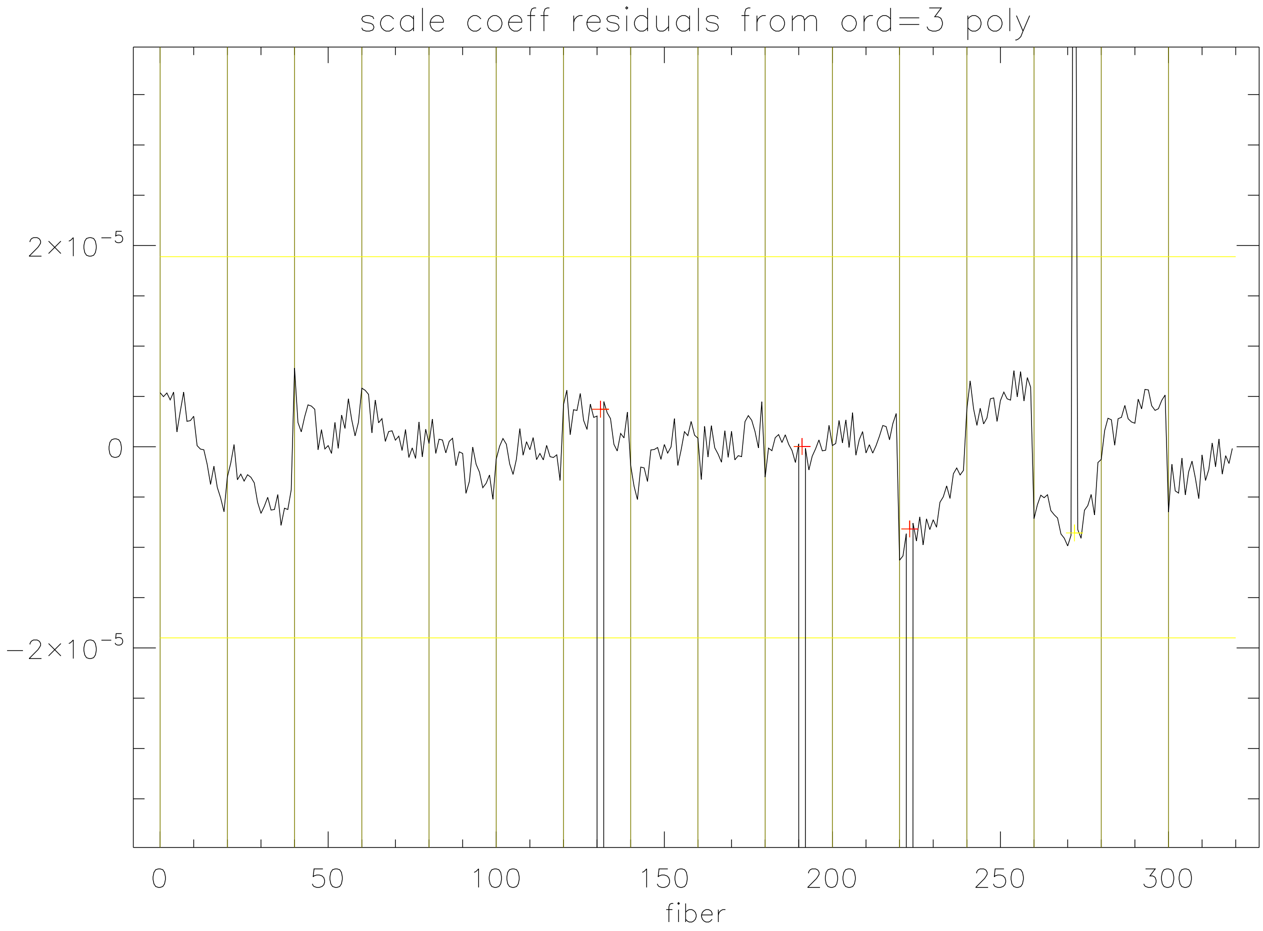
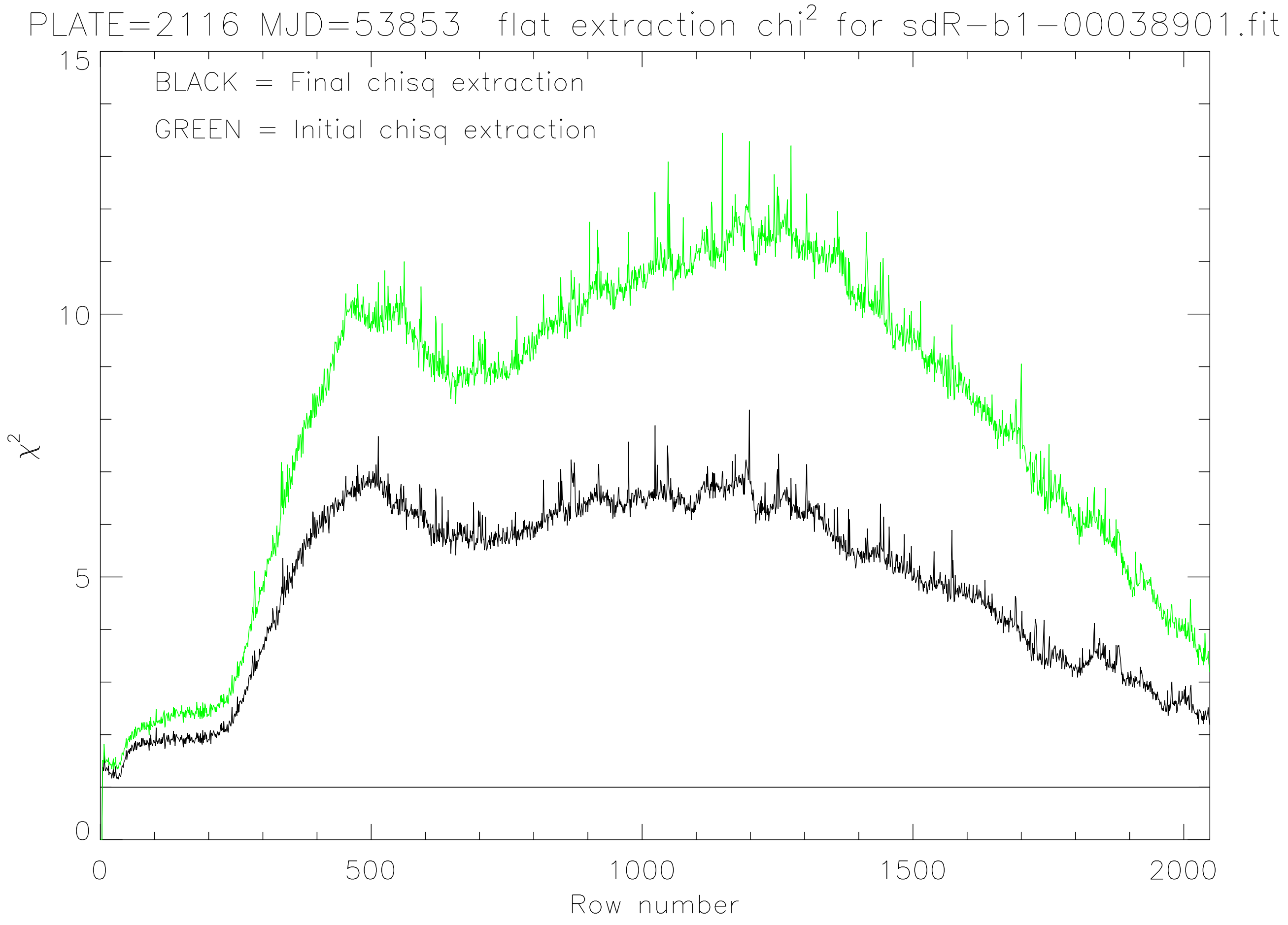


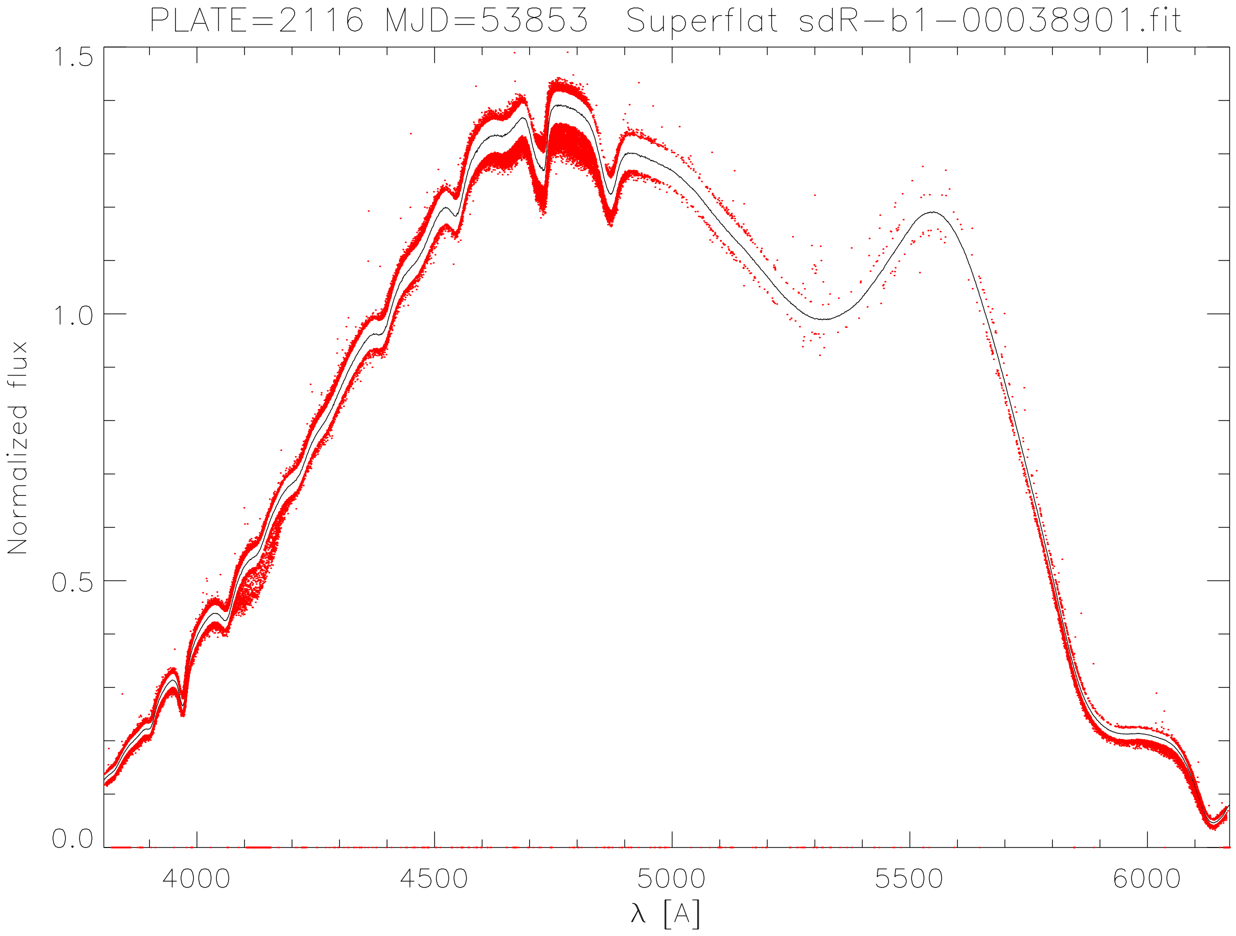
offset coeff residuals from ord=3 poly
1×10^{-4}
5×10^{-5}
0
−5×10^{-5}
−1×10^{-4}
0
50
100
150
200
250
300
fiber

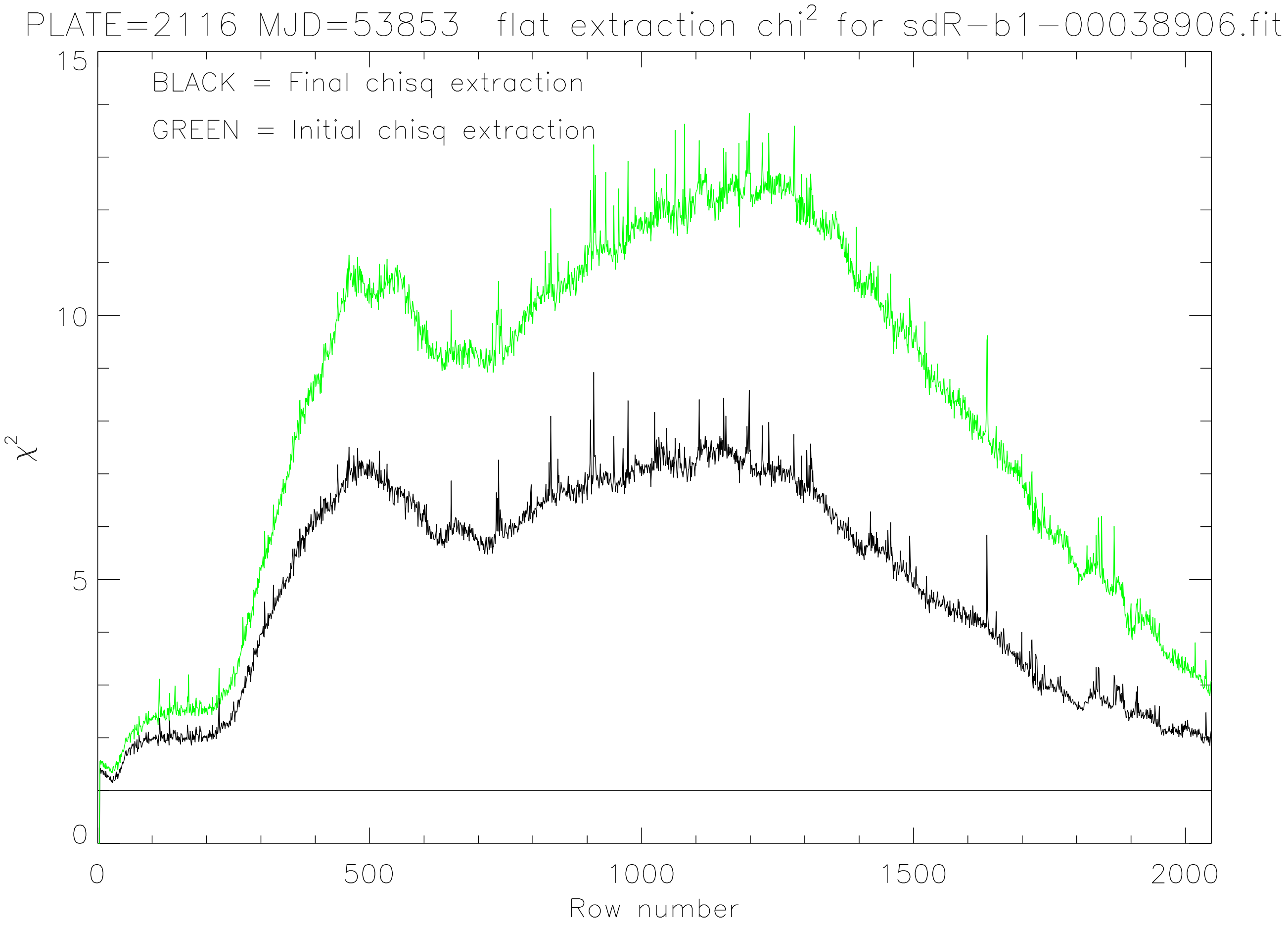

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

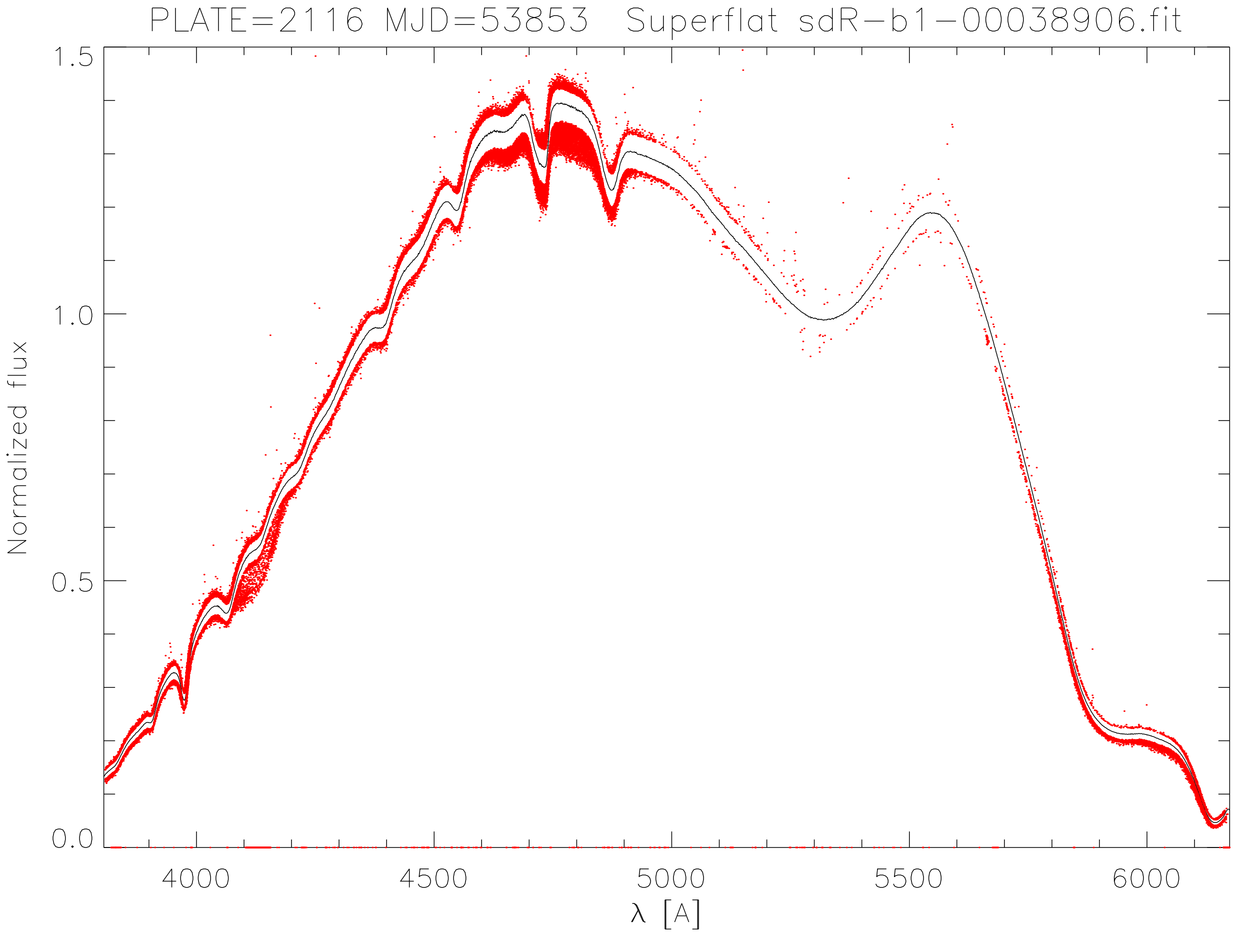

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

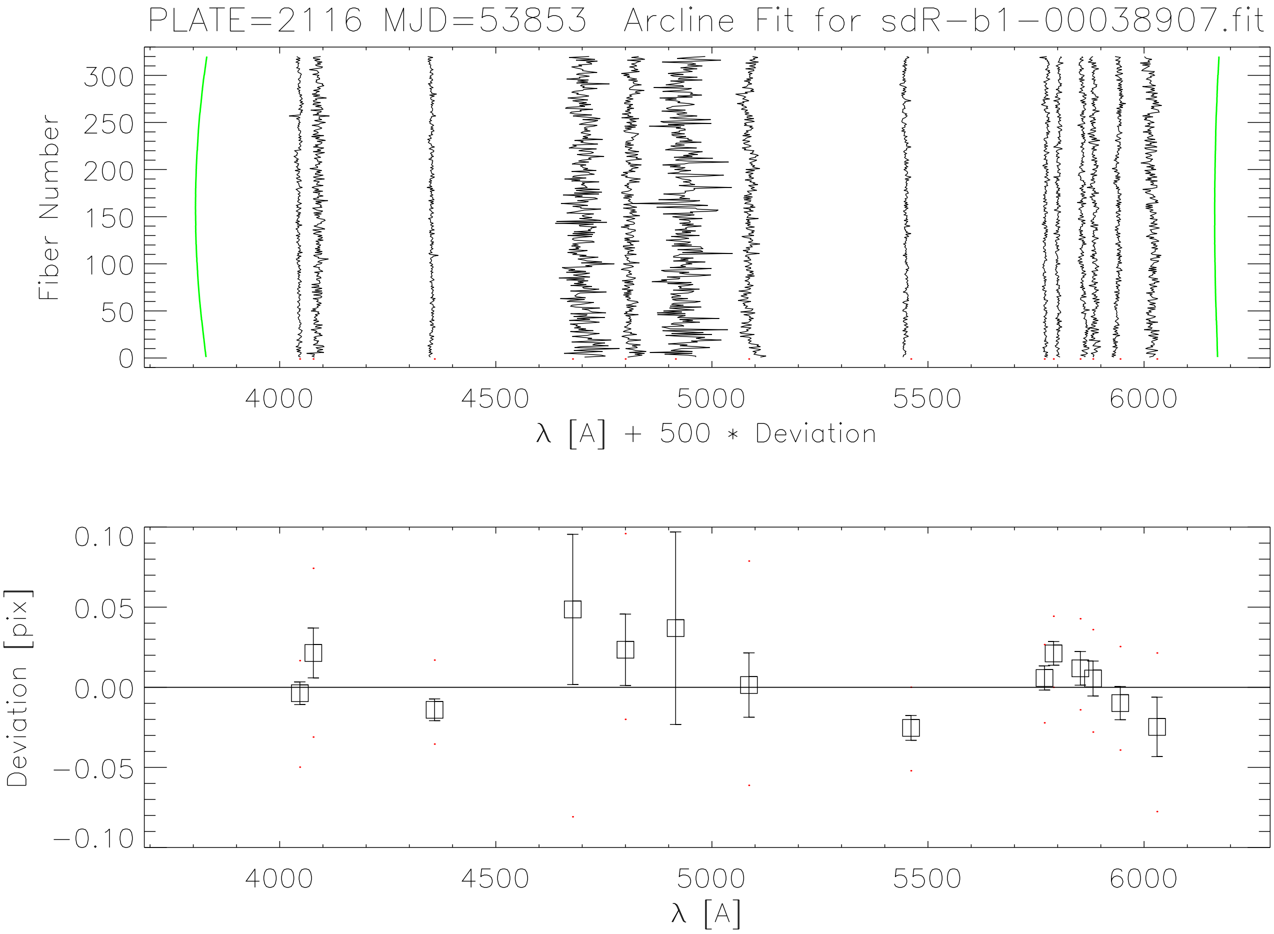

scale coeff residuals from ord=3 poly
2×10^{-5}
0
−2×10^{-5}
0
50
100
150
200
250
300
fiber


PLATE=2116 MJD=53853 flat extraction chi^2 for sdR-b1-00038901.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
0
500
1000
1500
2000
Row number

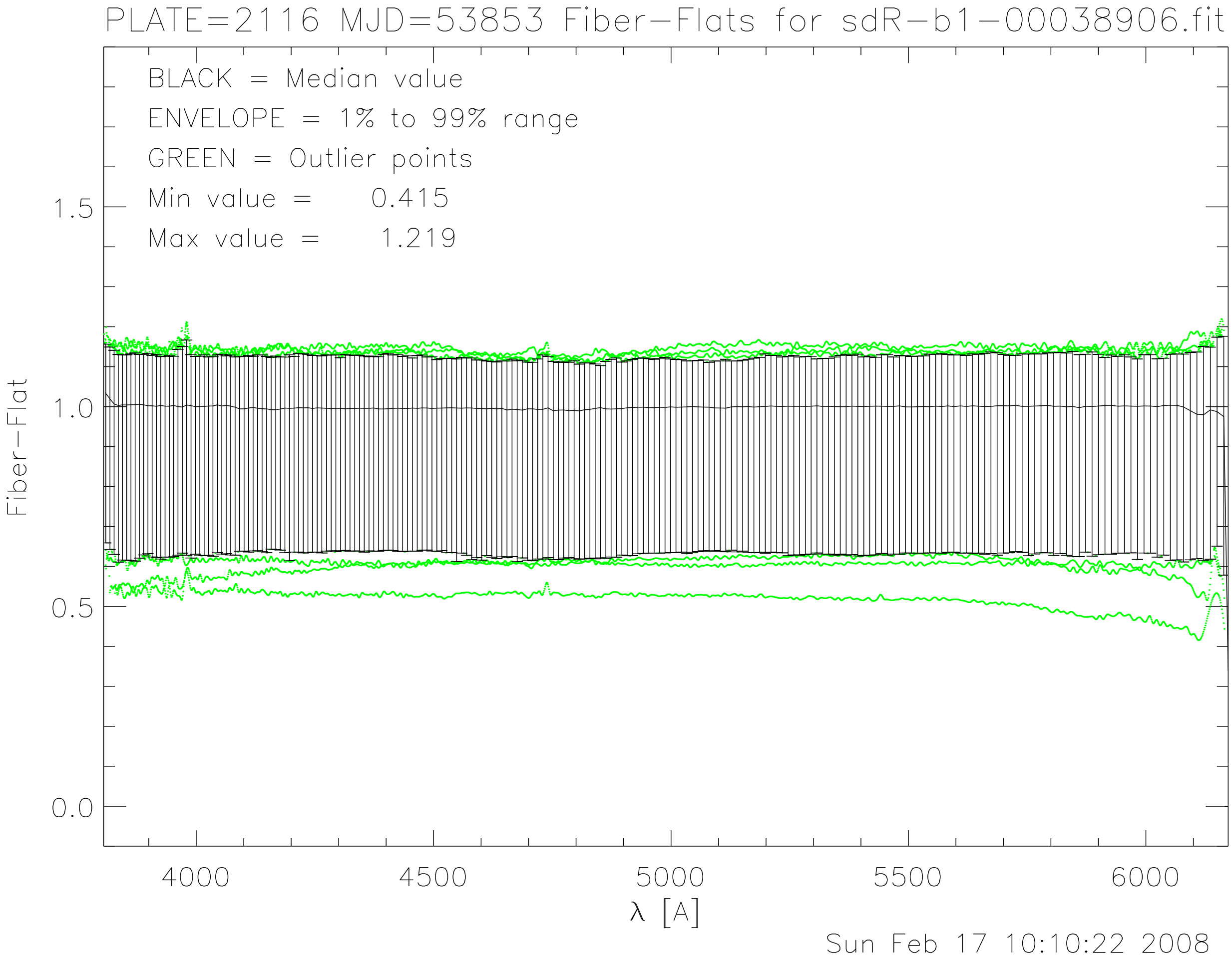

PLATE=2116 MJD=53853 Superflat sdR-b1-00038901.fit
Normalized flux
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000
λ [A]


PLATE=2116 MJD=53853 flat extraction chi^2 for sdR-b1-00038906.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
5
10
15
0
500
1000
1500
2000
Row number

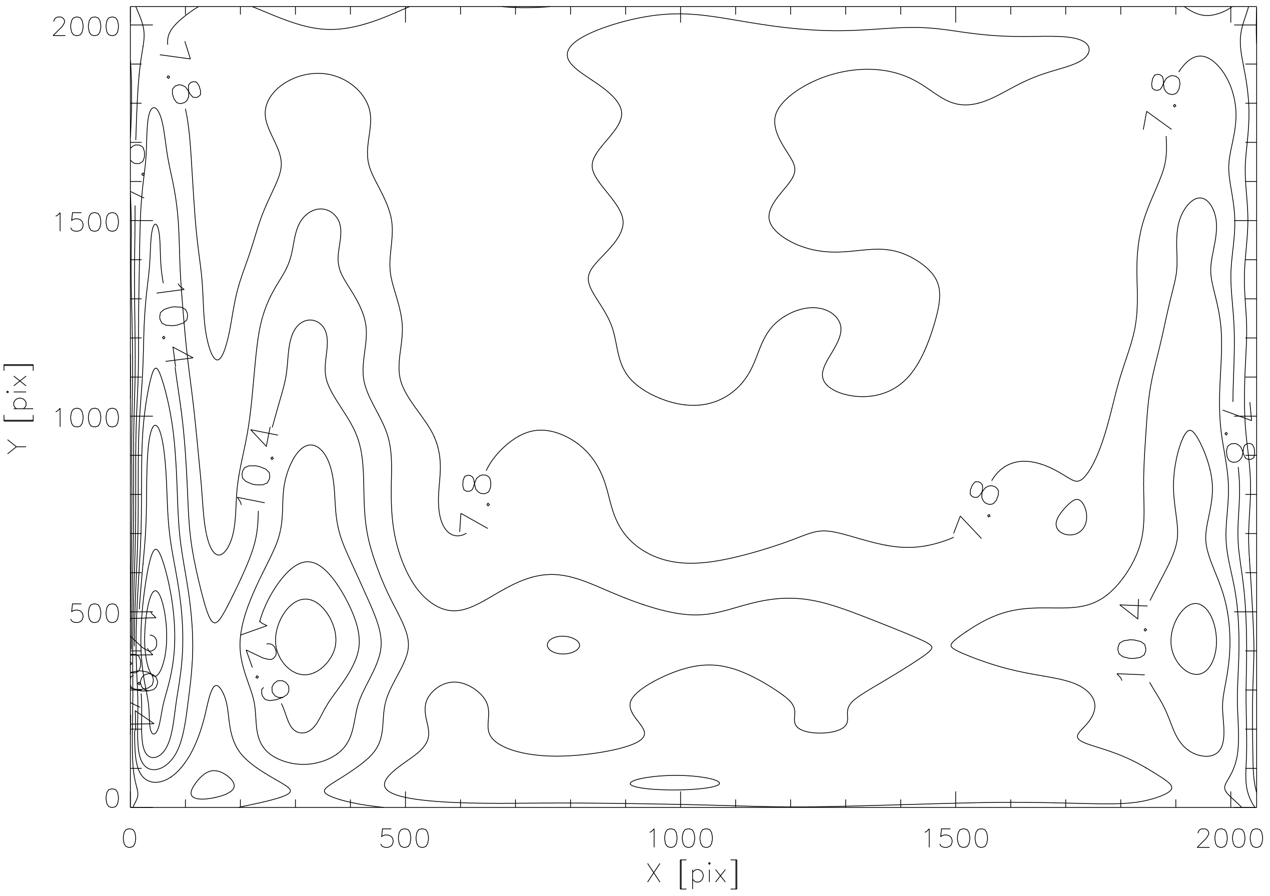

PLATE=2116 MJD=53853 Superflat sdR-b1-00038906.fit
Normalized flux
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000
λ [A]



Sun Feb 17 10:10:13 2008

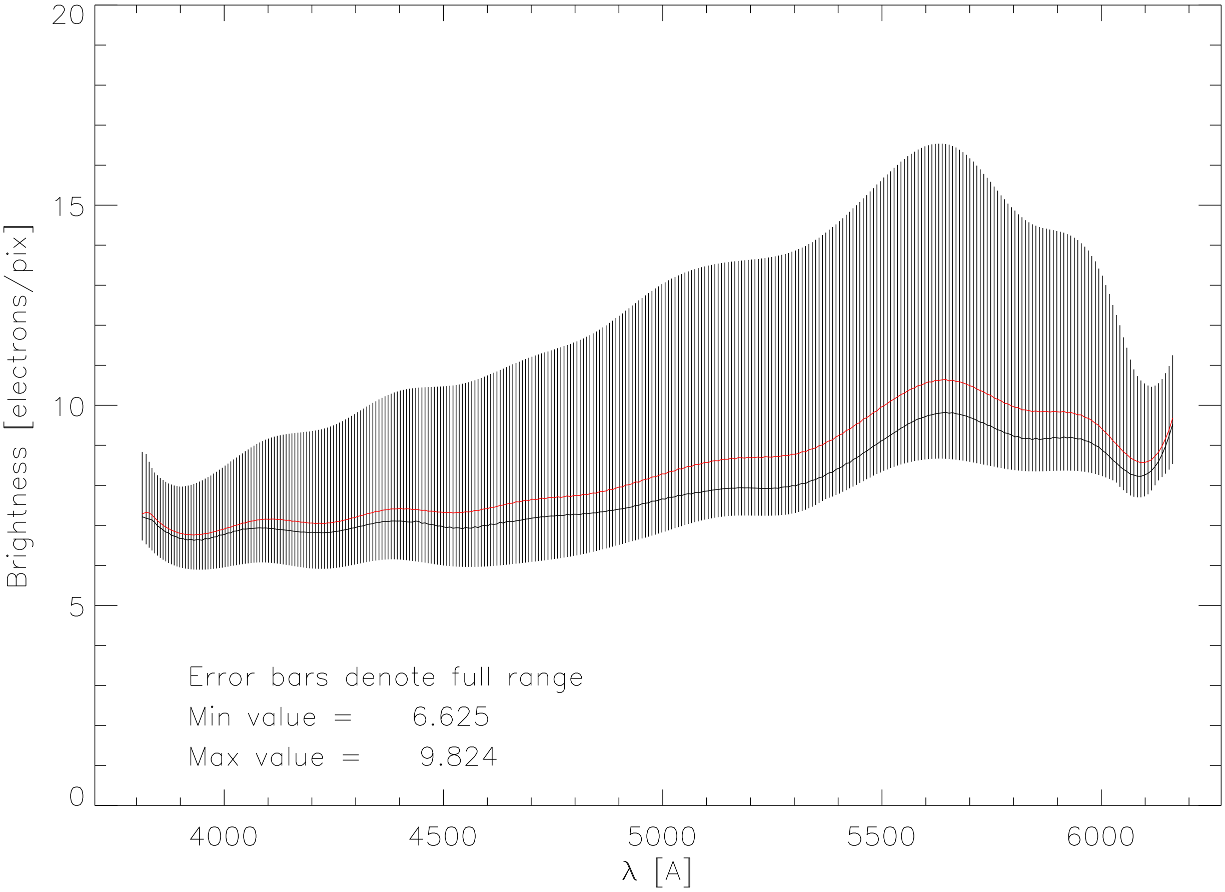


PLATE=2116 MJD=53853 Fiber−Flats for sdR−b1−00038906.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.415
Max value = 1.219
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 17 10:10:22 2008

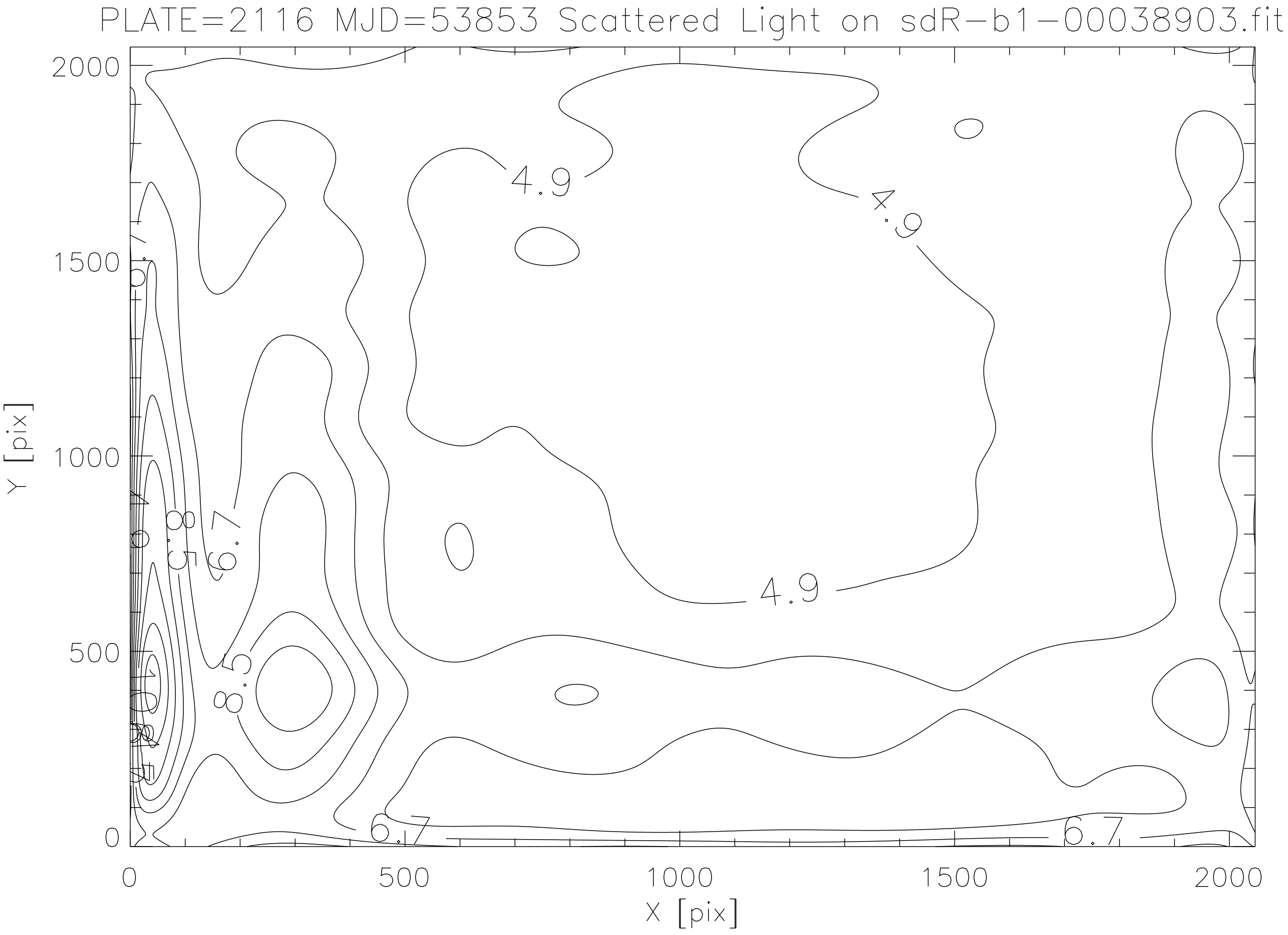


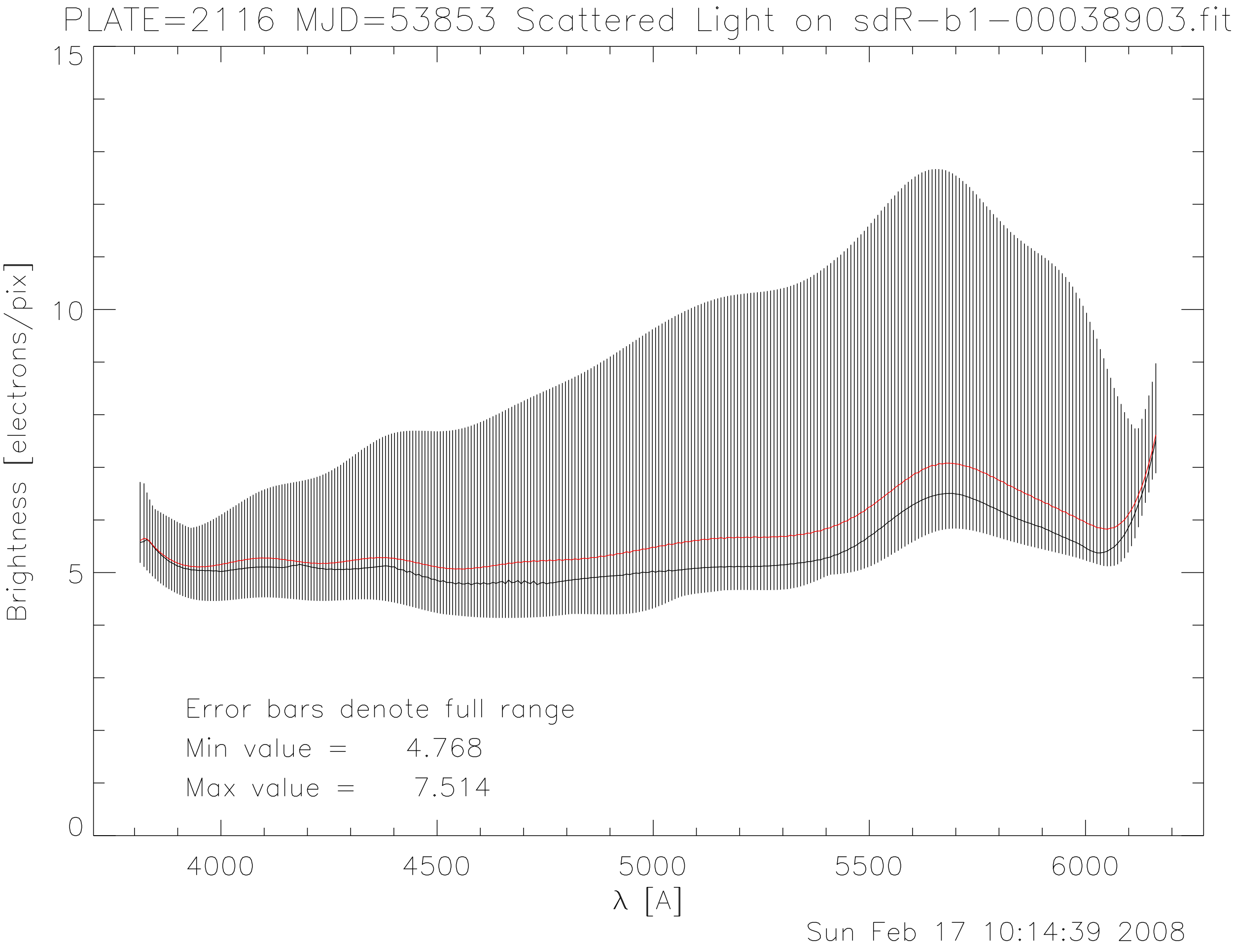
PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-b1-00038903.f

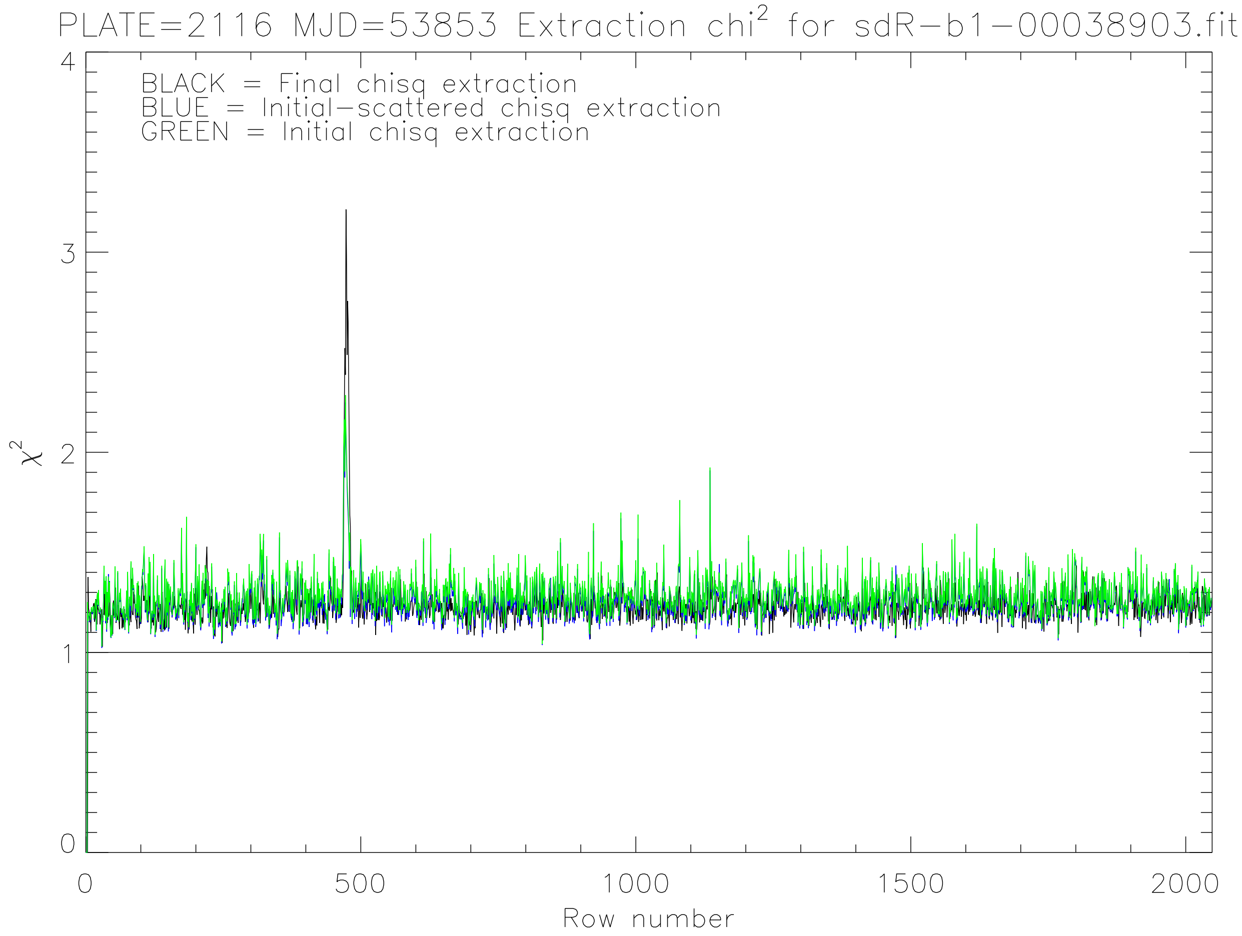
PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-b1-00038903.f

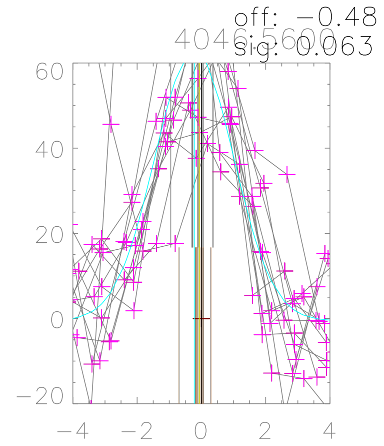


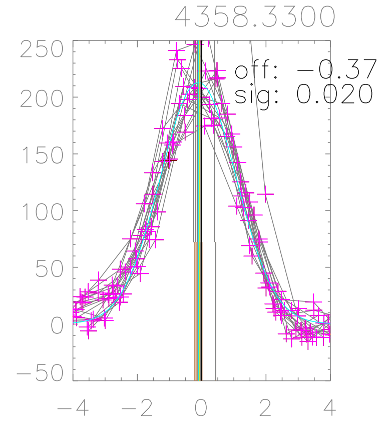
Sun Feb 17 10:11:22 2008

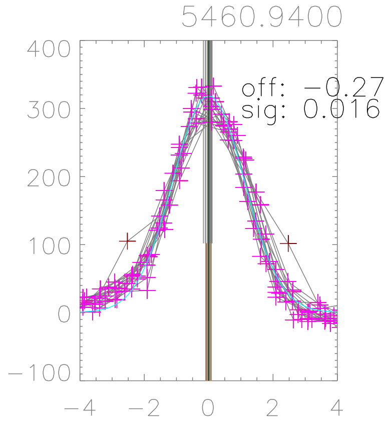


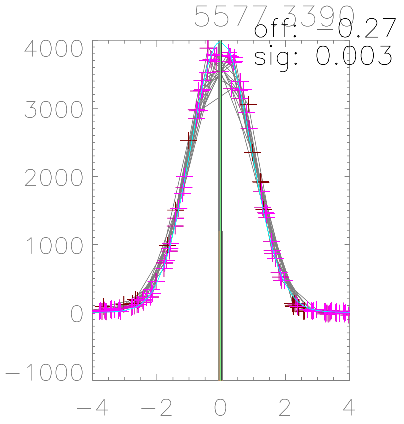

PLATE=2116 MJD=53853 Scattered Light on sdR-b1-00038903.fit
15
10
5
0
Brightness [electrons/pix]
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 4.768
Max value = 7.514
Sun Feb 17 10:14:39 2008

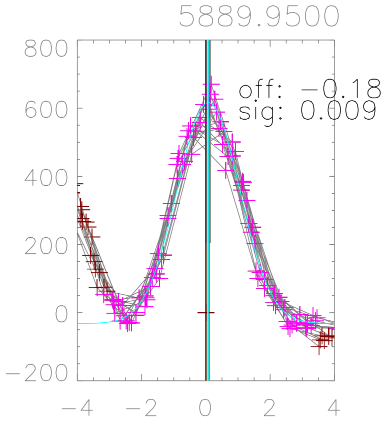

PLATE=2116 MJD=53853 Extraction chi^2 for sdR-b1-00038903.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

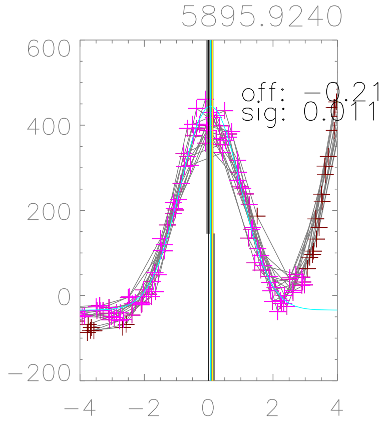

4046.5600
off: −0.48
sig: 0.063
60
40
20
0
−20
−4
−2
0
2
4

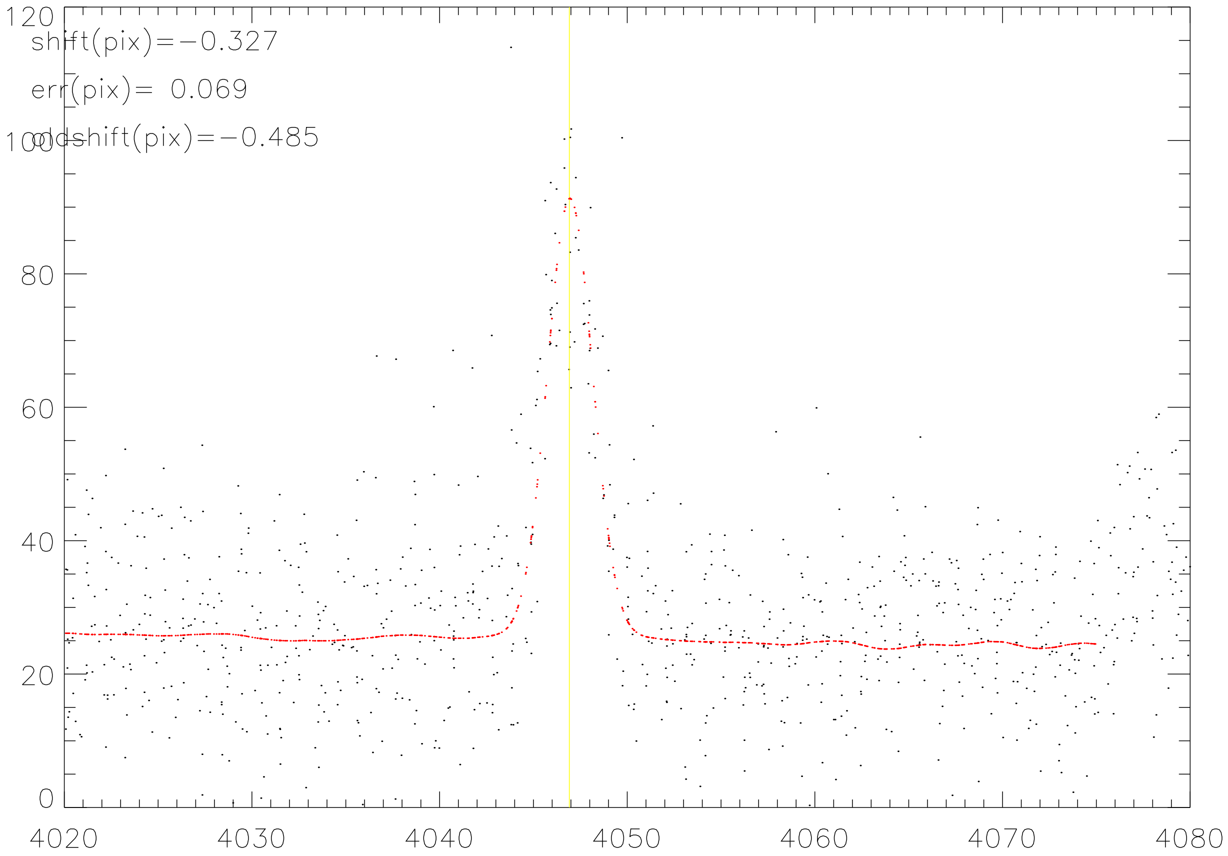

4358.3300
off: −0.37
sig: 0.020
250
200
150
100
50
0
−50
−4
−2
0
2
4

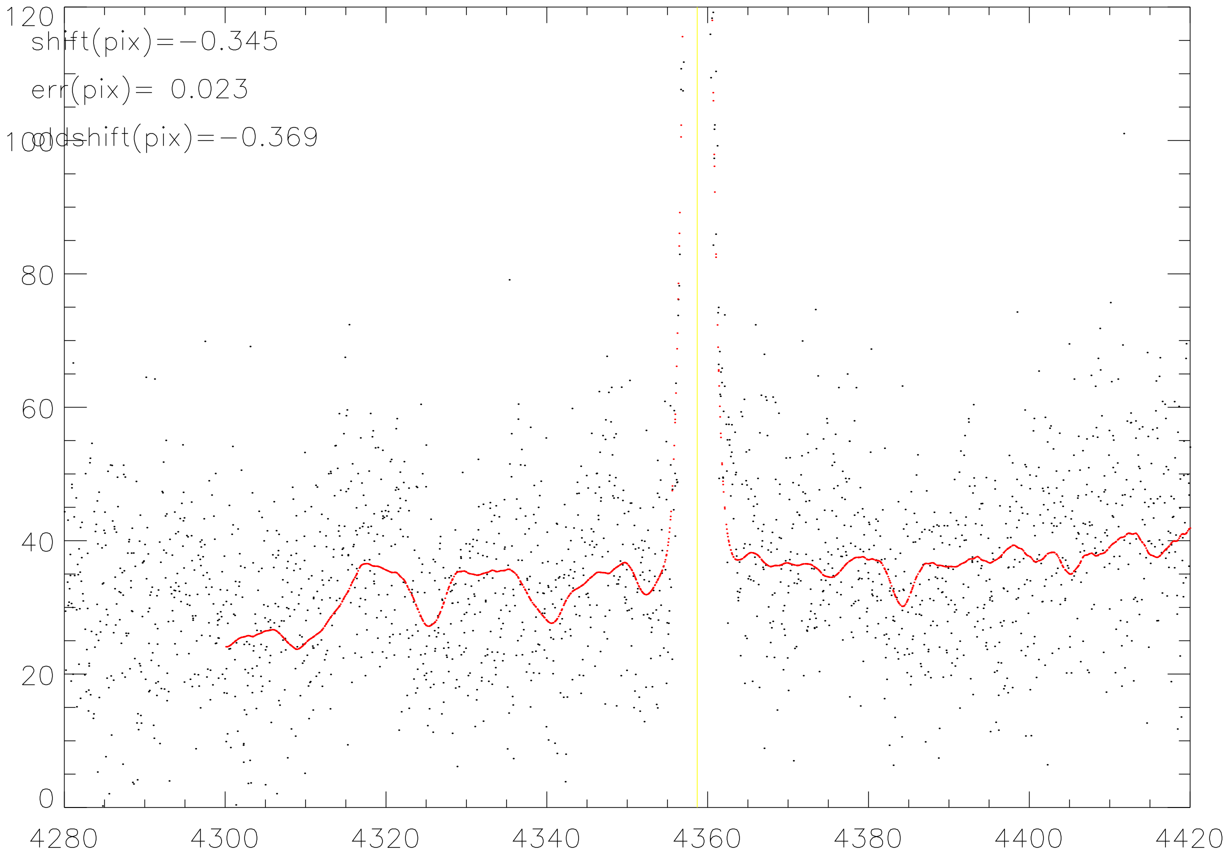

5460.9400
off: −0.27
sig: 0.016
400
300
200
100
0
−100
−4
−2
0
2
4

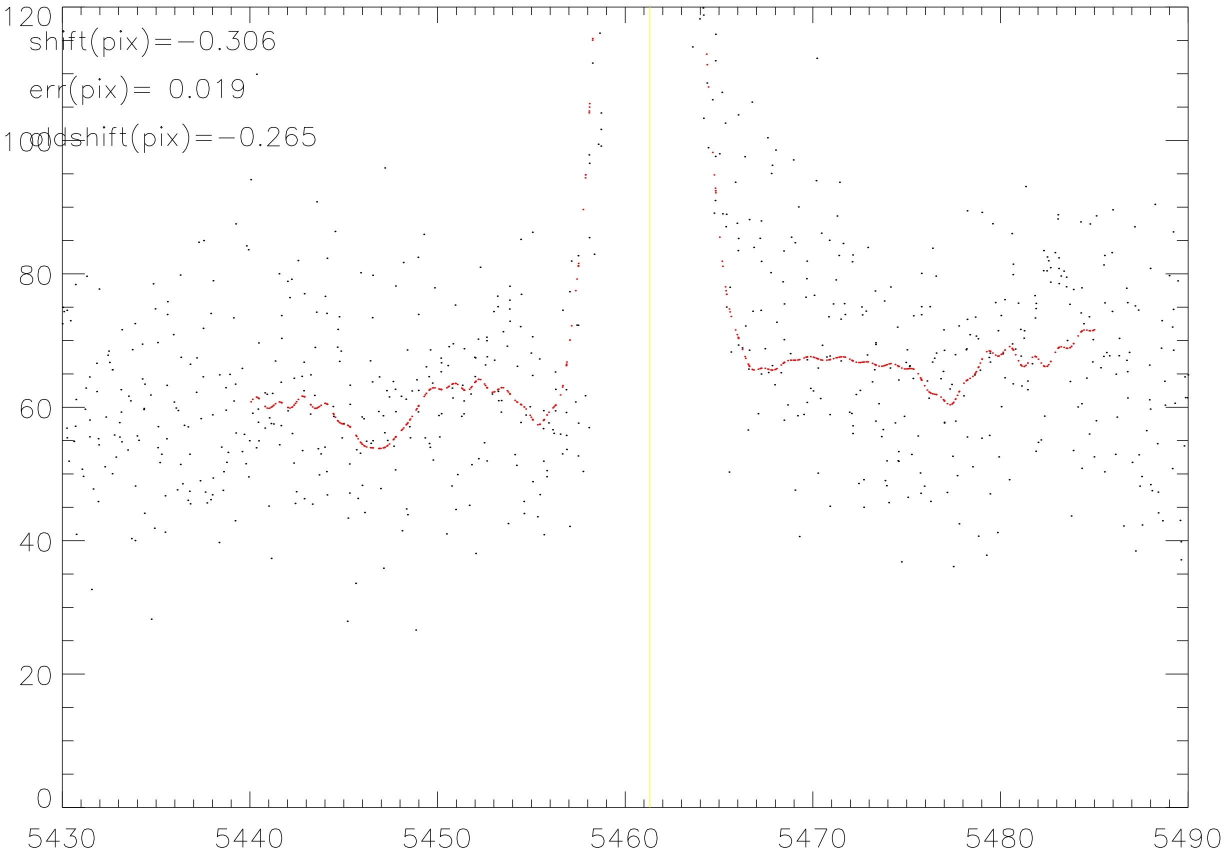

5577.3390
off: −0.27
sig: 0.003
4000
3000
2000
1000
0
−1000
−4
−2
0
2
4

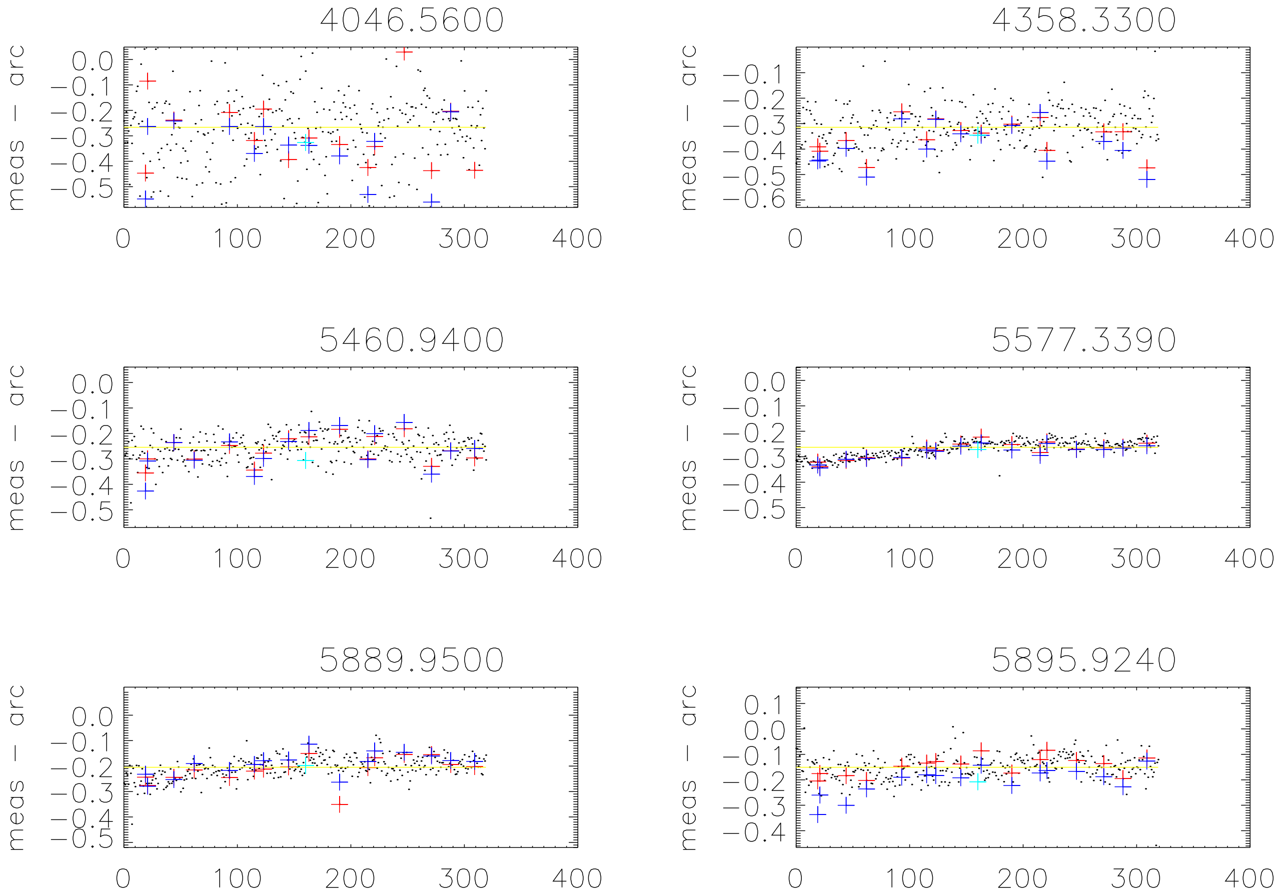

5889.9500
off: −0.18
sig: 0.009
800
600
400
200
0
−200
−4
−2
0
2
4

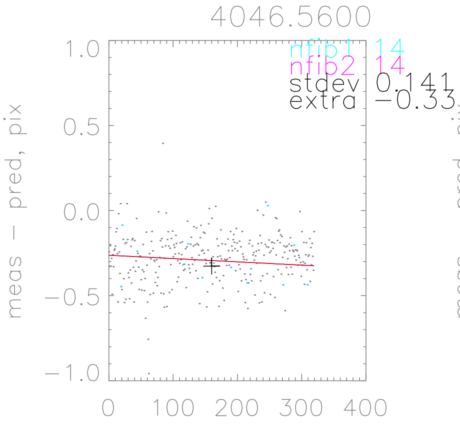

5895.9240
off: −0.21
sig: 0.011
600
400
200
0
−200
−4
−2
0
2
4

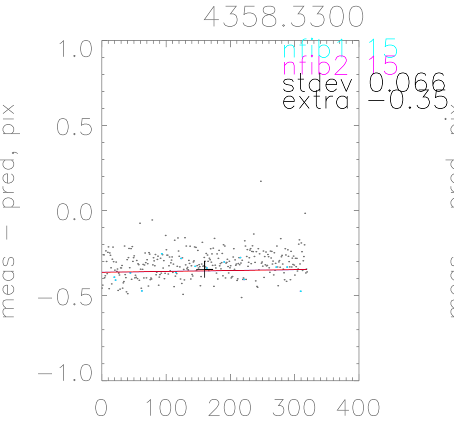

shift(pix)=−0.327
err(pix)= 0.069
oldshift(pix)=−0.485
0
20
40
60
80
100
120
4020
4030
4040
4050
4060
4070
4080

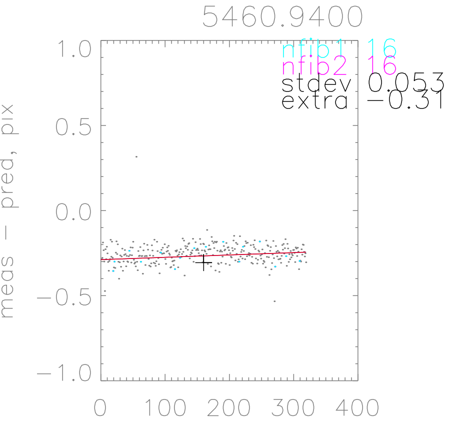

shift(pix)=-0.345
err(pix)= 0.023
oldshift(pix)=-0.369
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

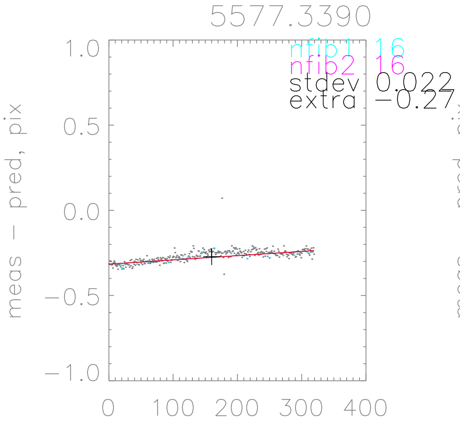

shift(pix)=−0.306
err(pix)= 0.019
oldshift(pix)=−0.265
0
20
40
60
80
100
120
5430
5440
5450
5460
5470
5480
5490

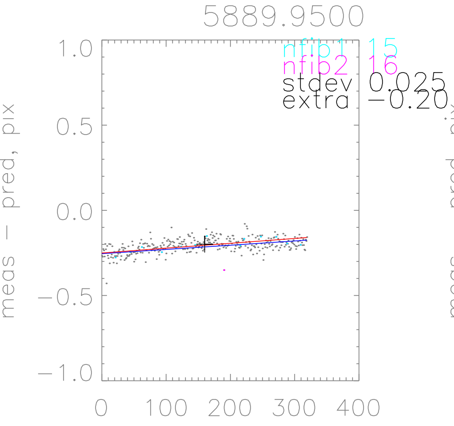

4046.5600
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400
4358.3300
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400
5460.9400
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400
5577.3390
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400
5889.9500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400
5895.9240
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

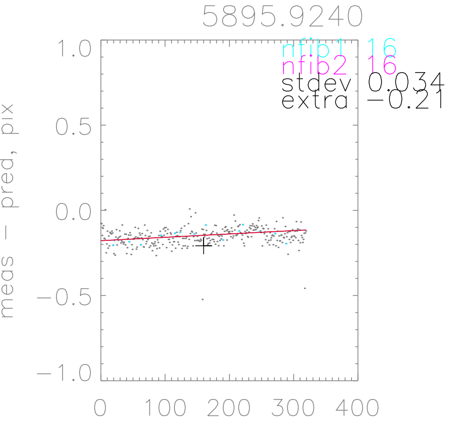

4046.5600
nfib1 14
nfib2 14
stdev 0.141
extra −0.33
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

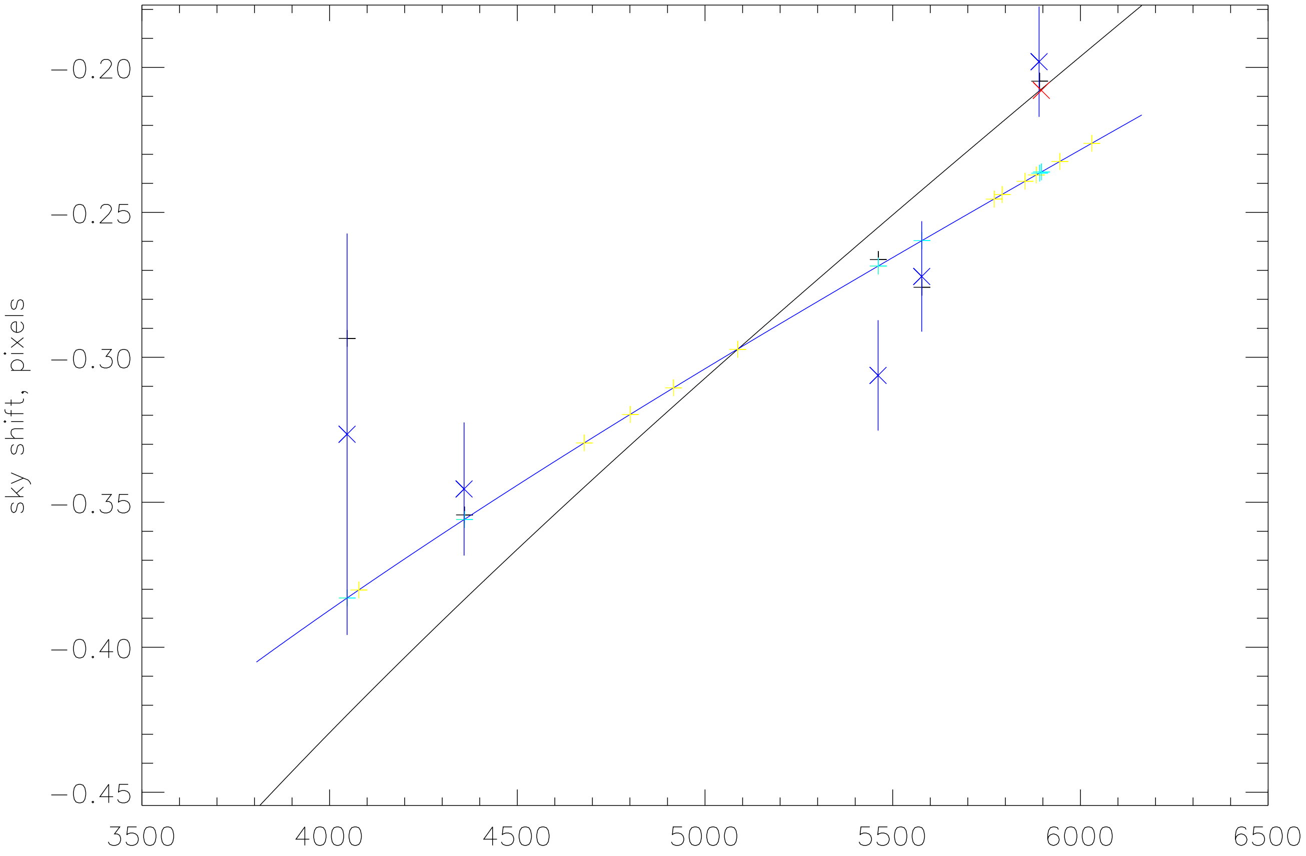

4358.3300
nfib1 15
nfib2 15
stdev 0.066
extra −0.35
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

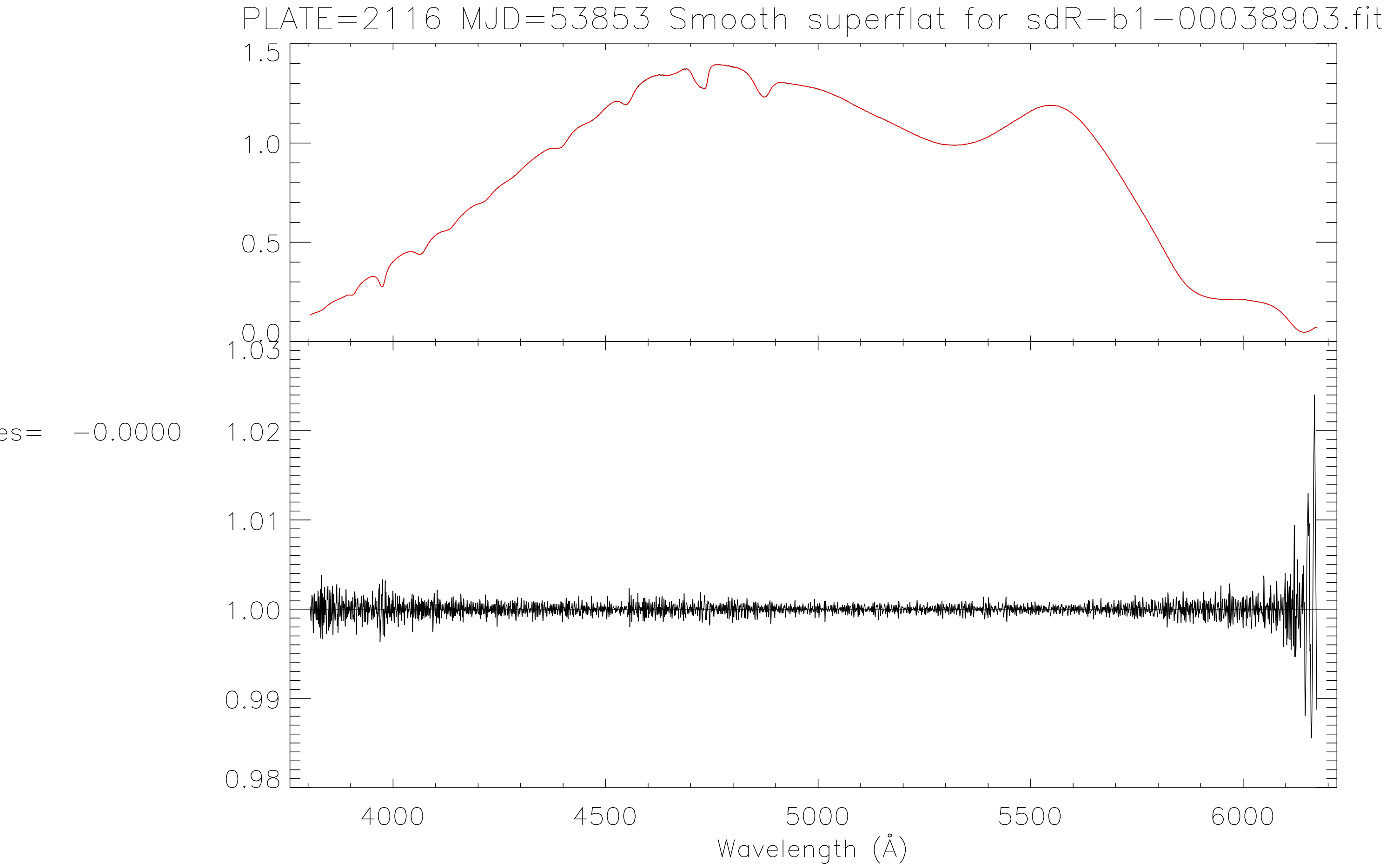

5460.9400
nfib1 16
nfib2 16
stdev 0.053
extra −0.31
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

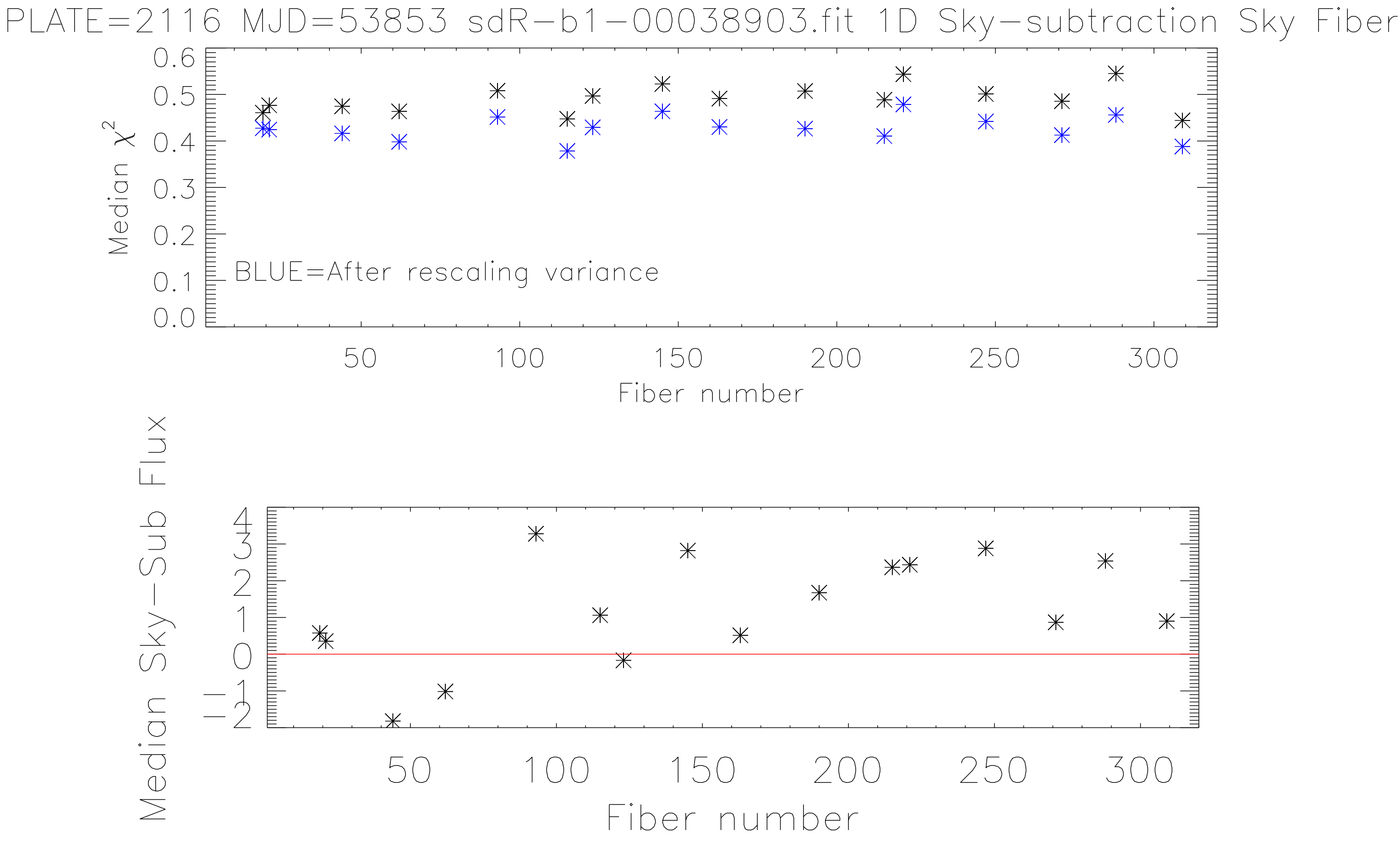

5577.3390
nfib1 16
nfib2 16
stdev 0.022
extra −0.27
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

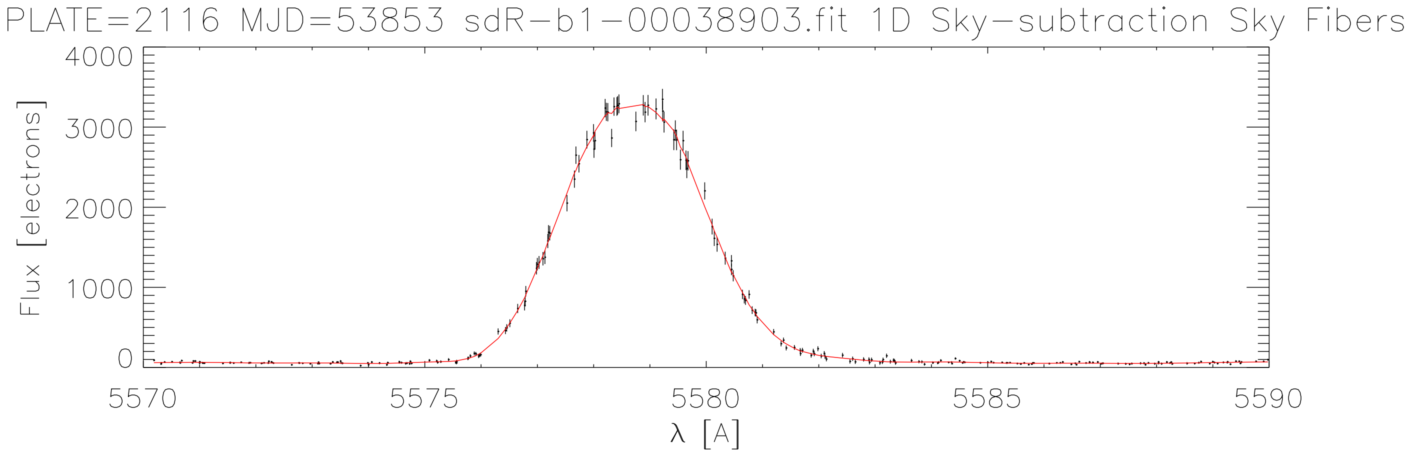

5889.9500
nfib1 15
nfib2 16
stdev 0.025
extra −0.20
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


5895.9240
nfib1 16
nfib2 16
stdev 0.034
extra −0.21
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

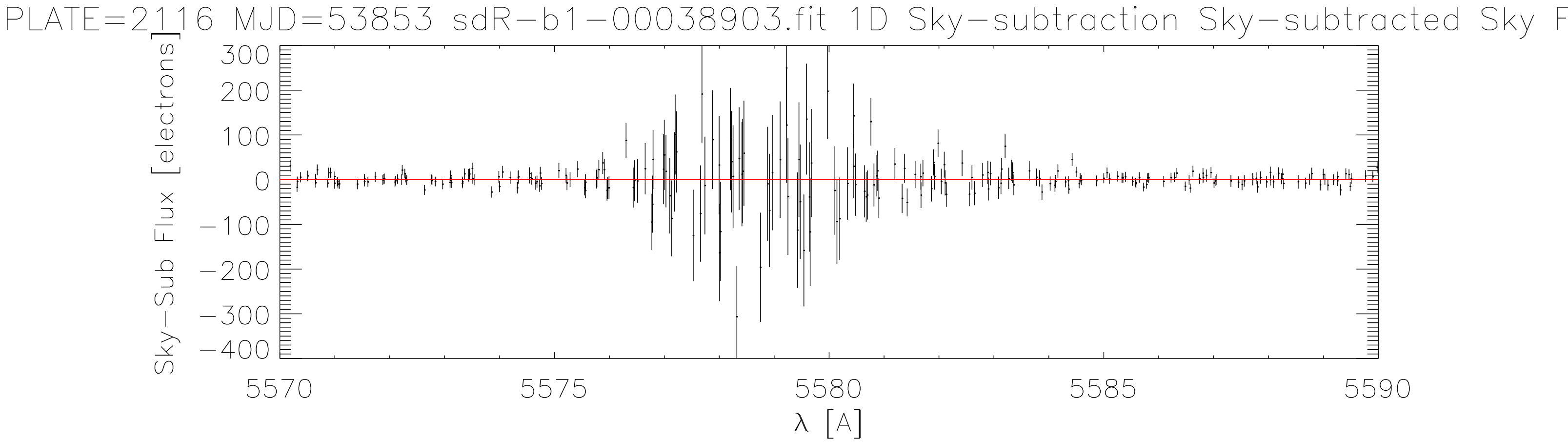

sky shift, pixels
−0.20
−0.25
−0.30
−0.35
−0.40
−0.45
3500
4000
4500
5000
5500
6000
6500


PLATE=2116 MJD=53853 Smooth superflat for sdR-b1-00038903.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
es=   −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)


PLATE=2116 MJD=53853 sdR-b1-00038903.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
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number



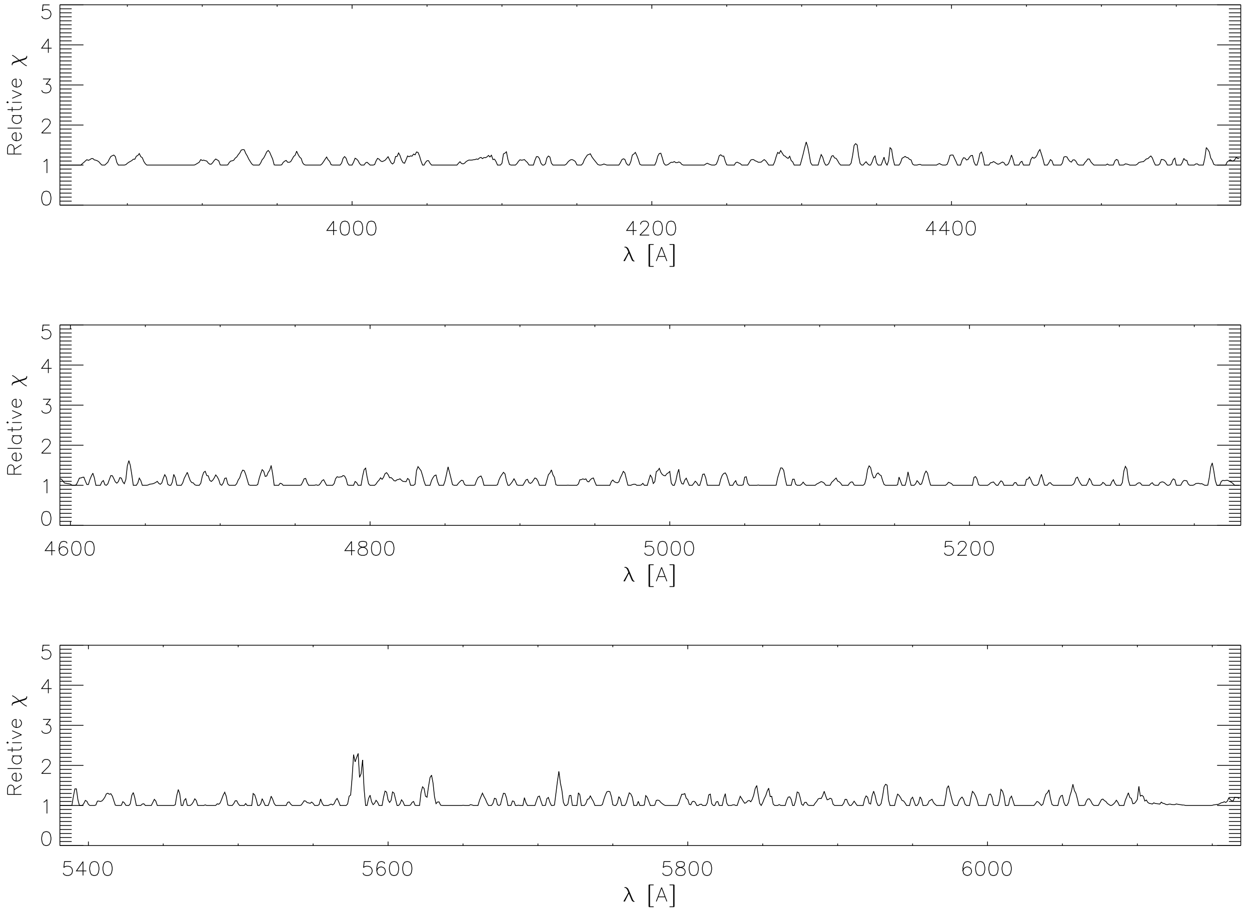
PLATE=2116 MJD=53853 sdR-b1-00038903.fit 1D Sky-subtraction Sky Fibers

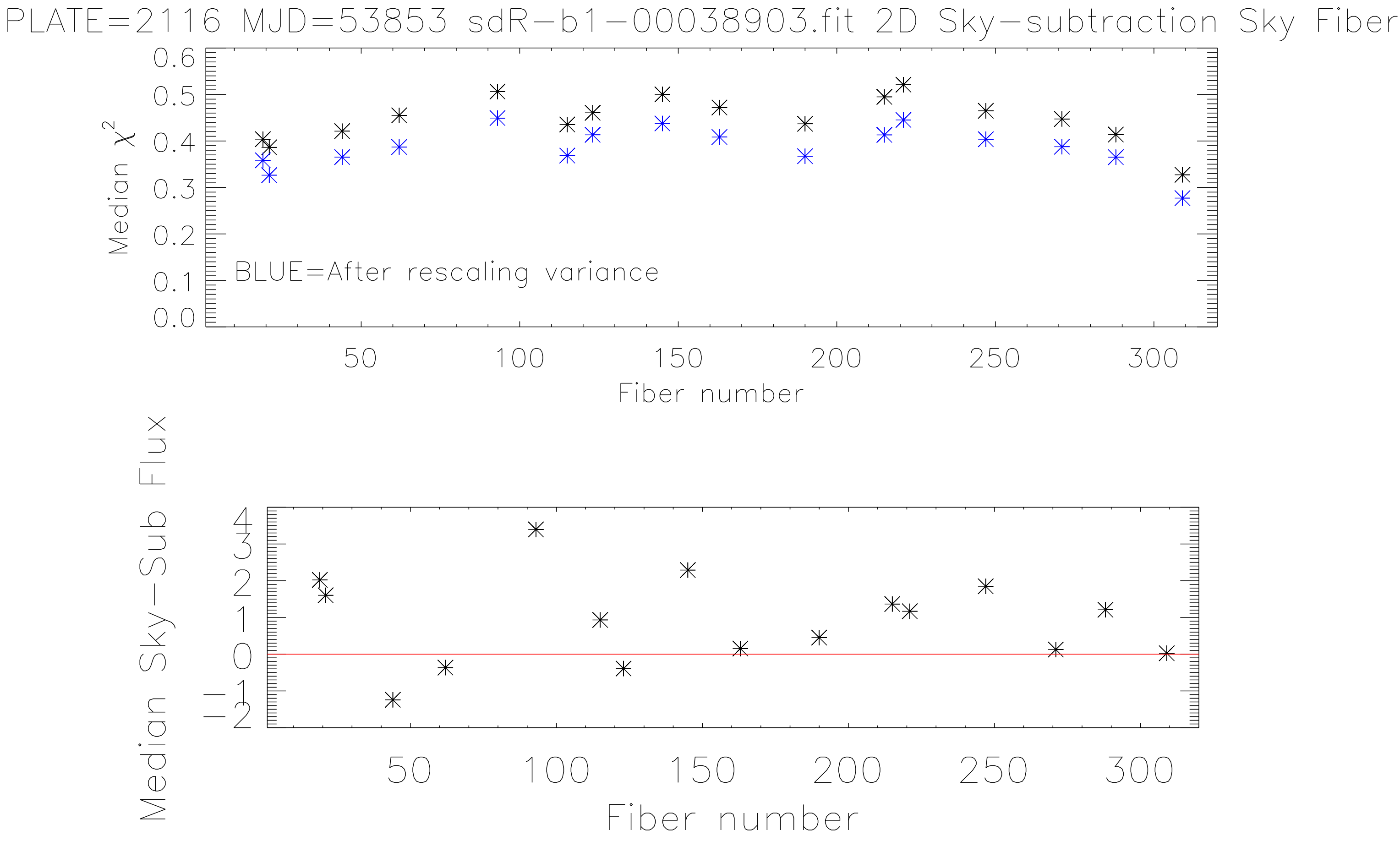


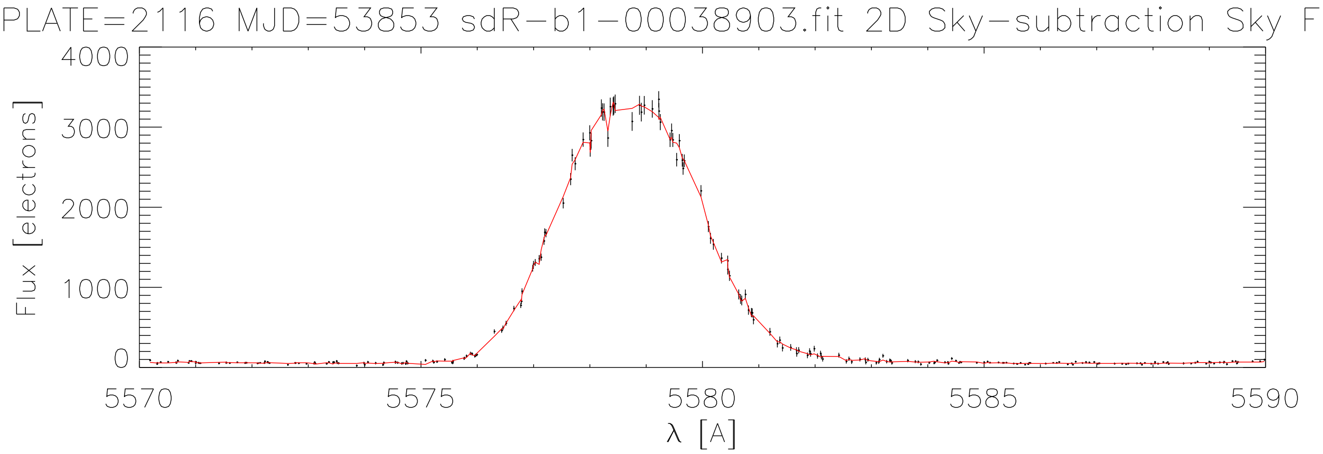
PLATE=2116 MJD=53853 sdR-b1-00038903.fit 1D Sky-subtraction Sky-subtracted Sky F

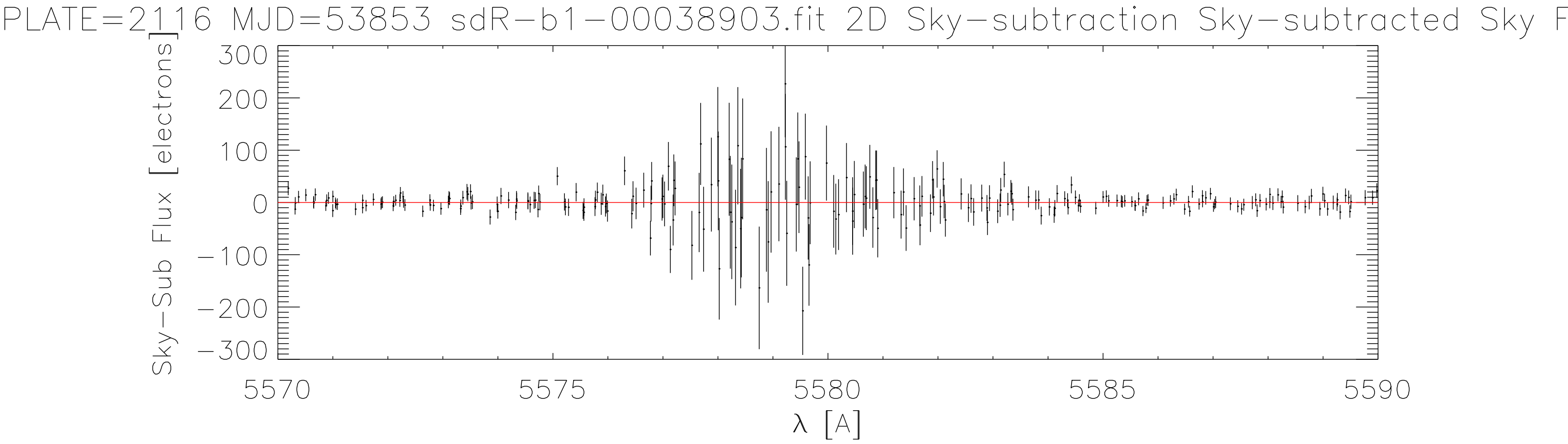
Number of sky fibers = 16

PLATE=2116 MJD=53853 sdR-b1-00038903.fit 1D Sky-subtraction Rescaled Errors



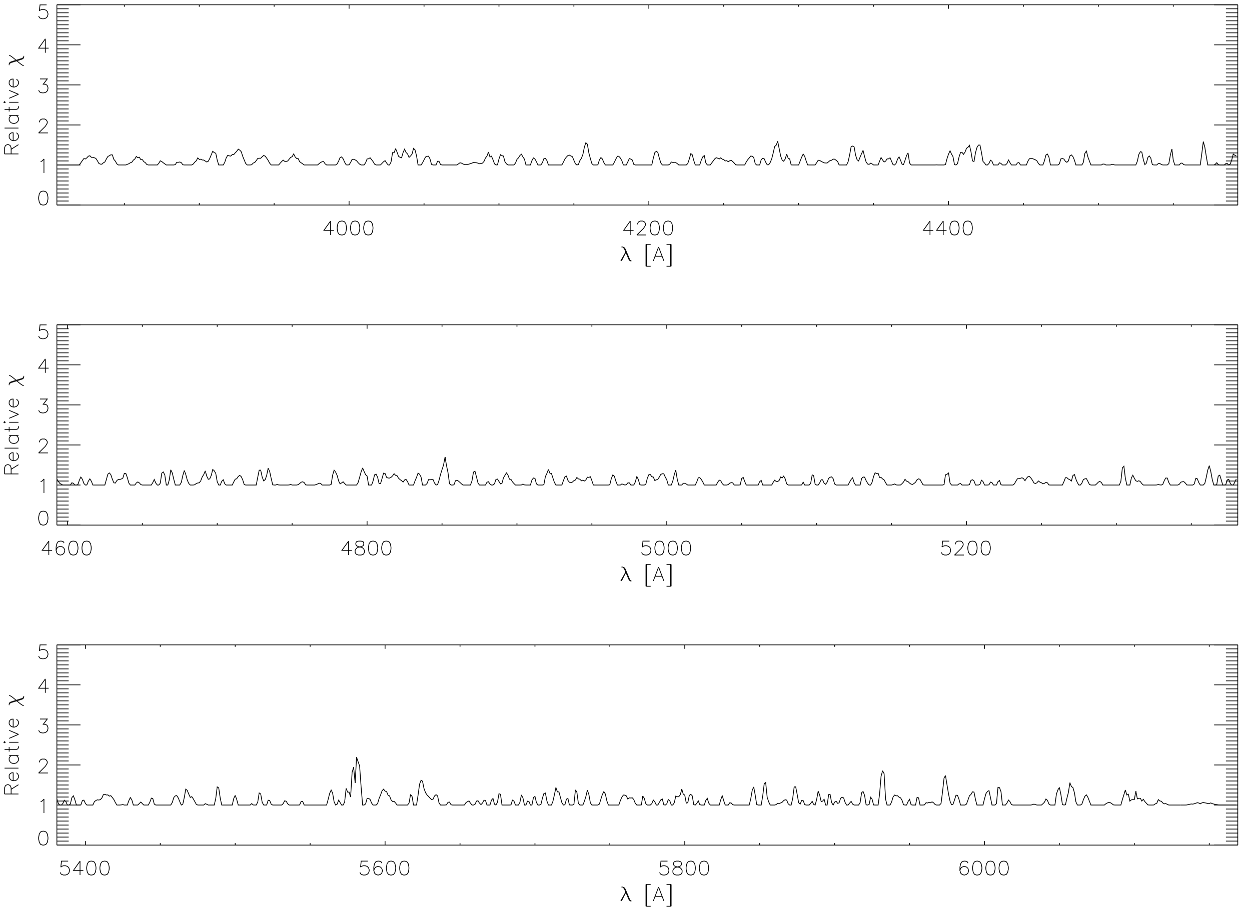

PLATE=2116 MJD=53853 sdR-b1-00038903.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.6
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
4
3
2
1
0
-1
-2
50
100
150
200
250
300
Fiber number

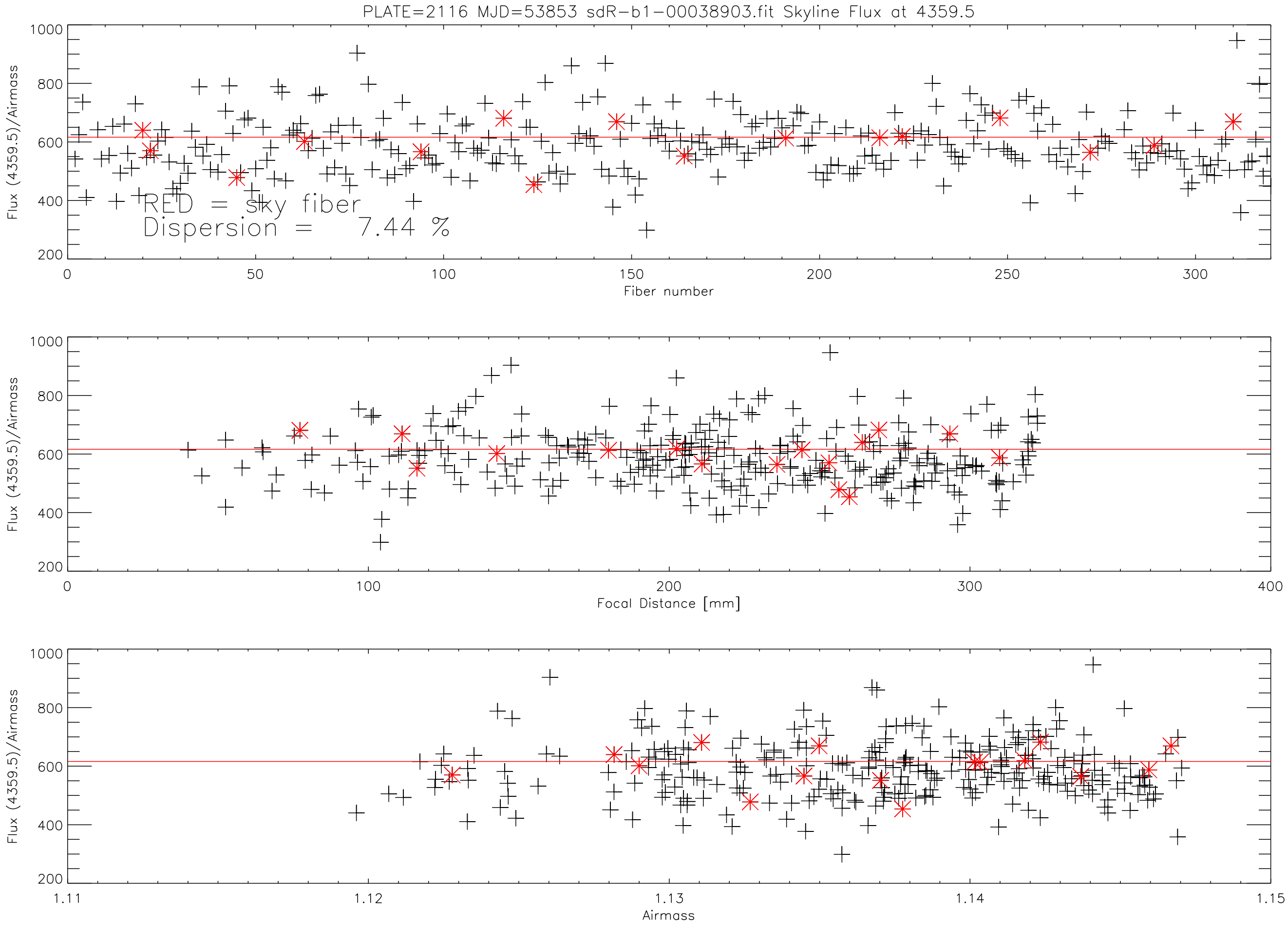

PLATE=2116 MJD=53853 sdR-b1-00038903.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]

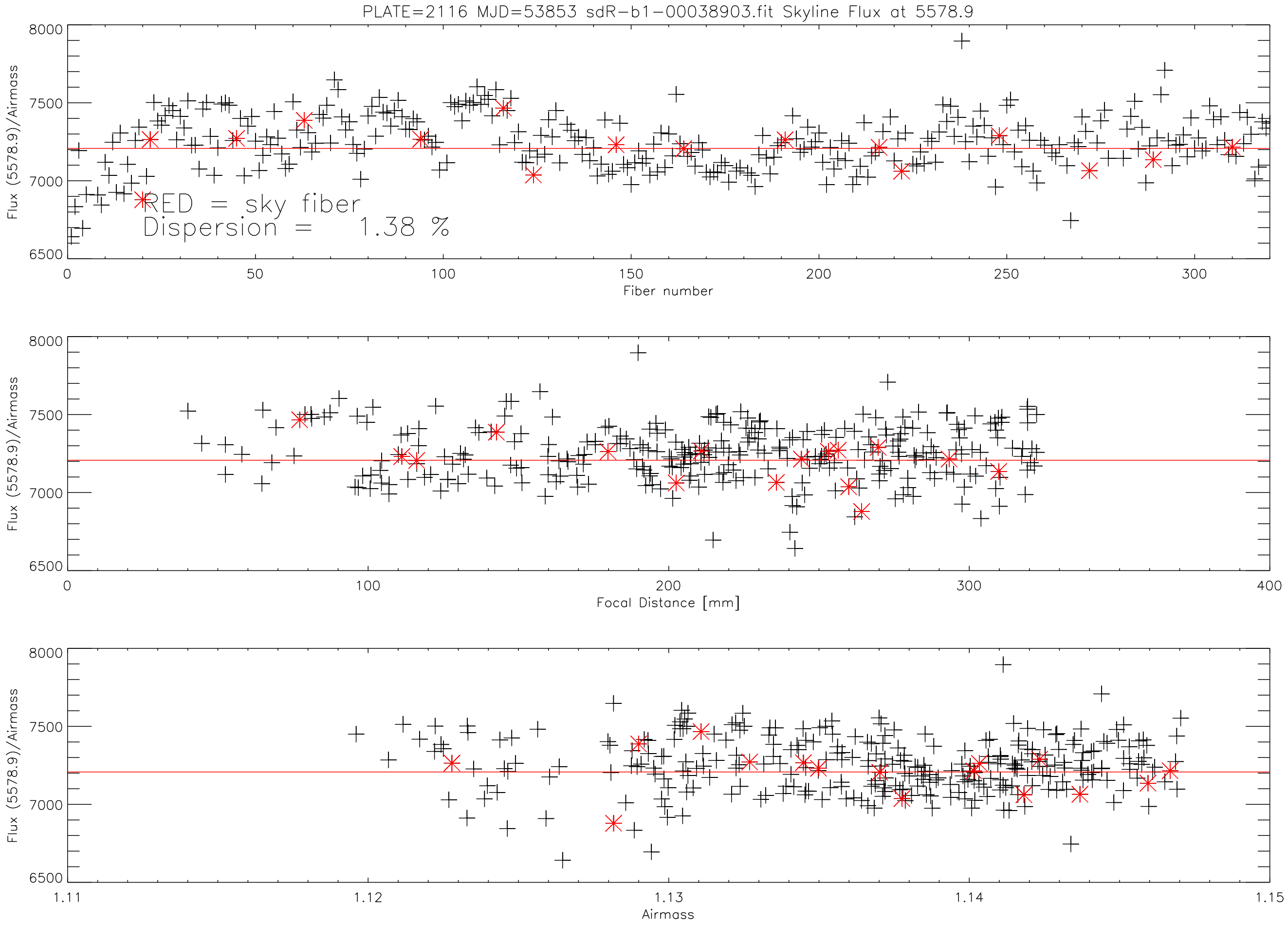

PLATE=2116 MJD=53853 sdR-b1-00038903.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
300
200
100
0
−100
−200
−300
5570
5575
5580
5585
5590
λ [A]

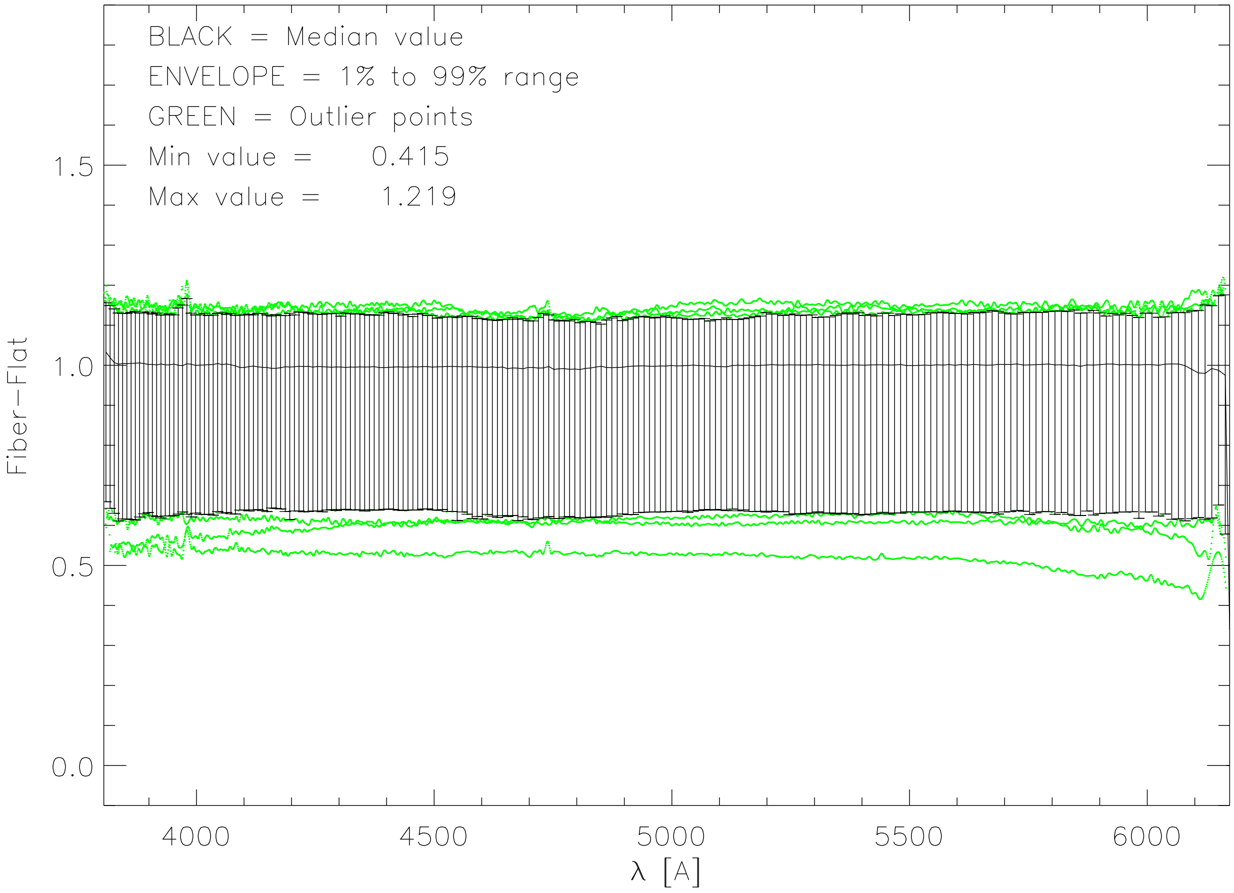
Number of sky fibers = 16

PLATE=2116 MJD=53853 sdR-b1-00038903.fit 2D Sky-subtraction Rescaled Errors

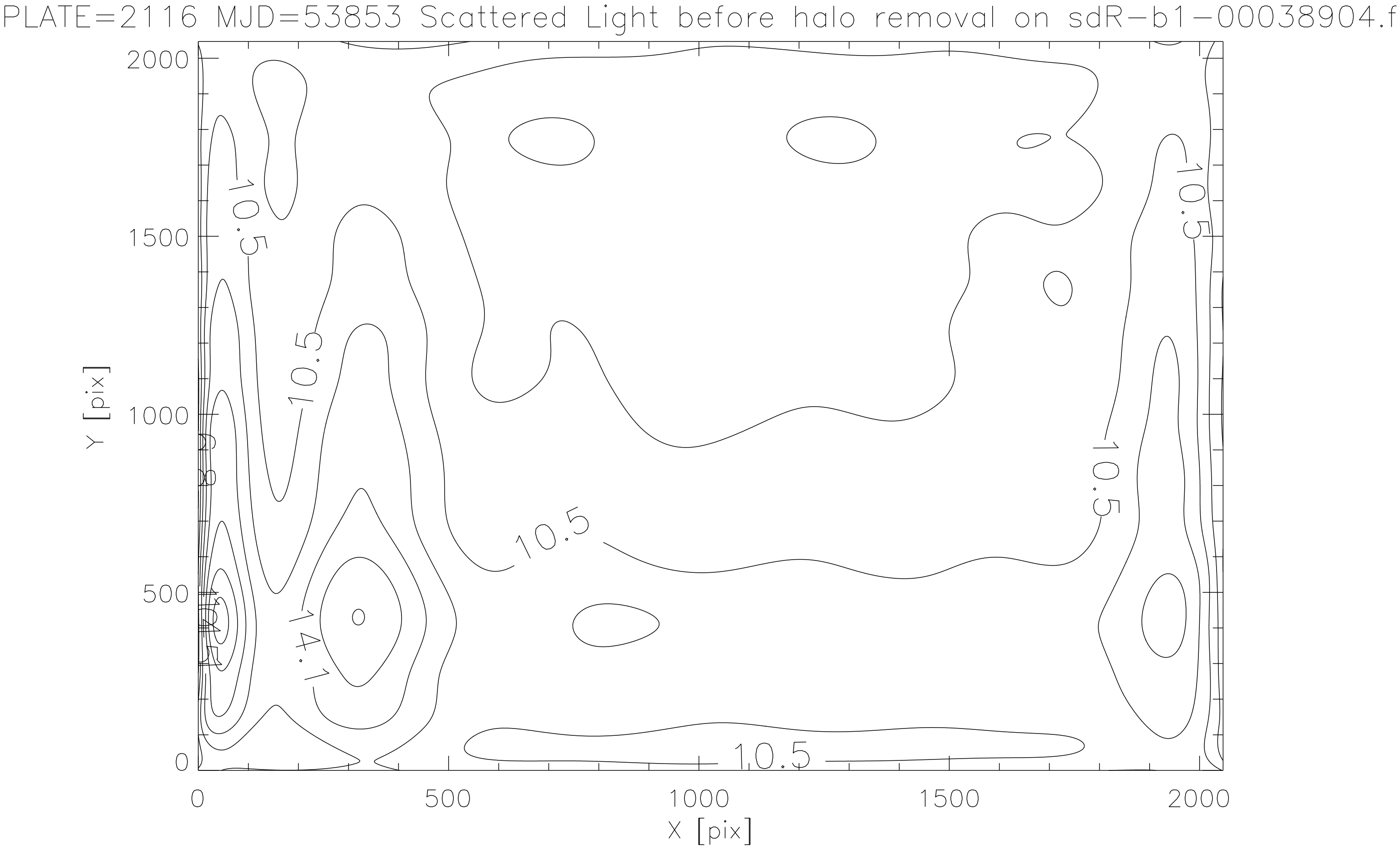


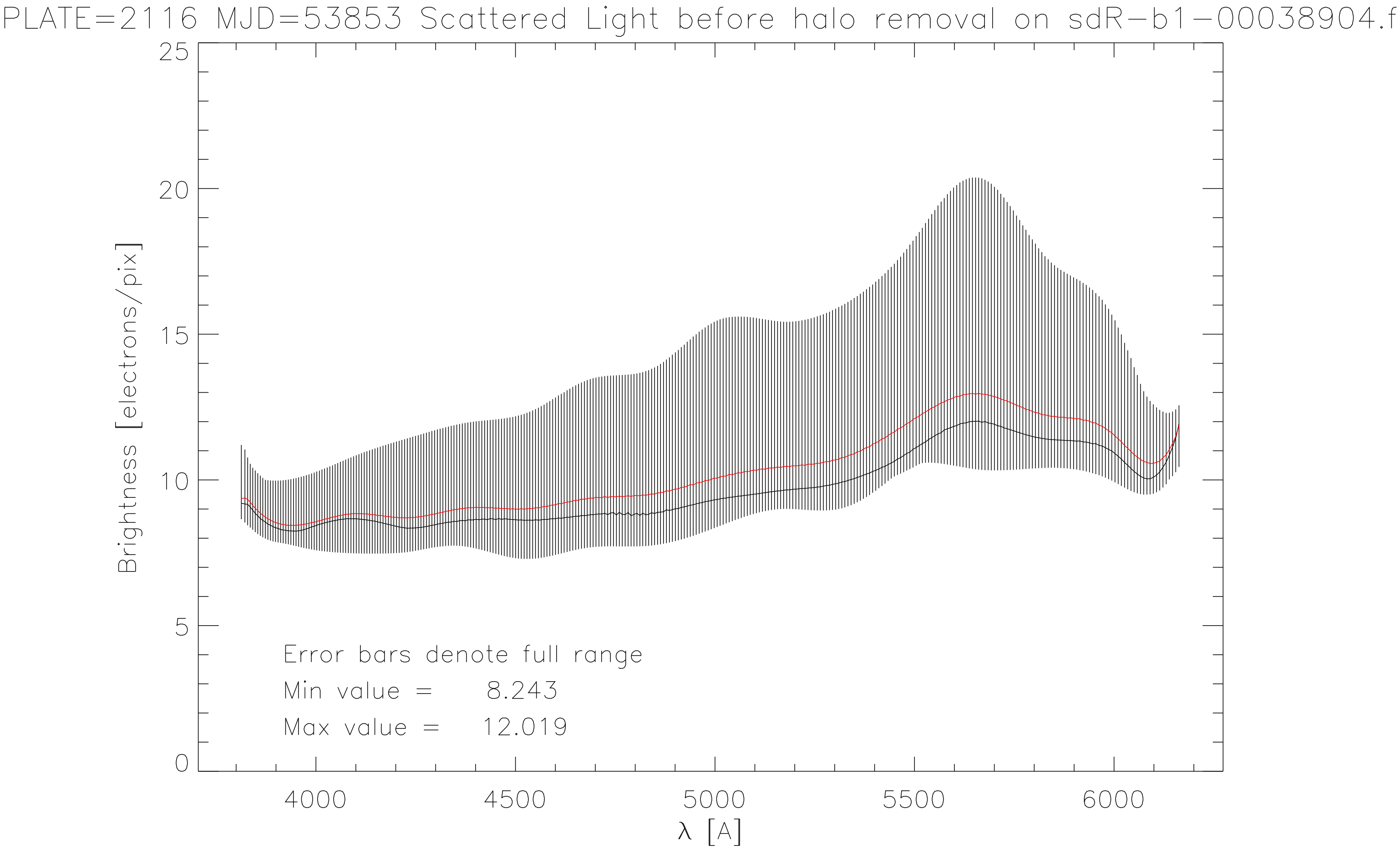

PLATE=2116 MJD=53853 sdR-b1-00038903.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
1000
800
600
400
200
RED = sky fiber
Dispersion = 7.44 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
1000
800
600
400
200
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
1000
800
600
400
200
1.11
1.12
1.13
1.14
1.15
Airmass


PLATE=2116 MJD=53853 sdR-b1-00038903.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
8000
7500
7000
6500
RED = sky fiber
Dispersion = 1.38 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
8000
7500
7000
6500
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
8000
7500
7000
6500
1.11
1.12
1.13
1.14
1.15
Airmass


PLATE=2116 MJD=53853 Fiber−Flats for sdR−b1−00038906.fit

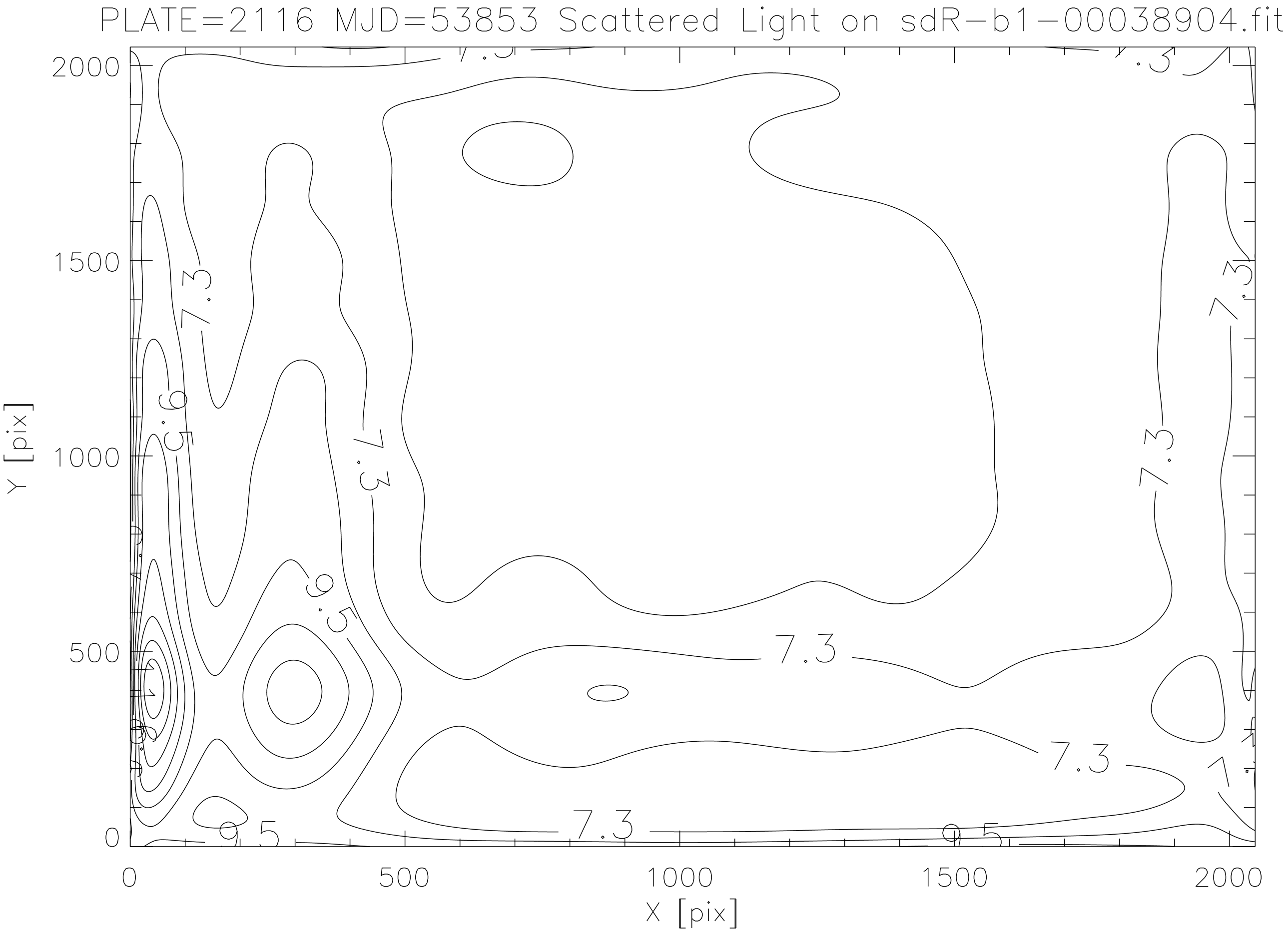
Sun Feb 17 10:15:52 2008


PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-b1-00038904.f
Y [pix]
X [pix]
0
500
1000
1500
2000
0
500
1000
1500
2000
10.5
10.5
10.5
10.5
10.5
10.5
14.1

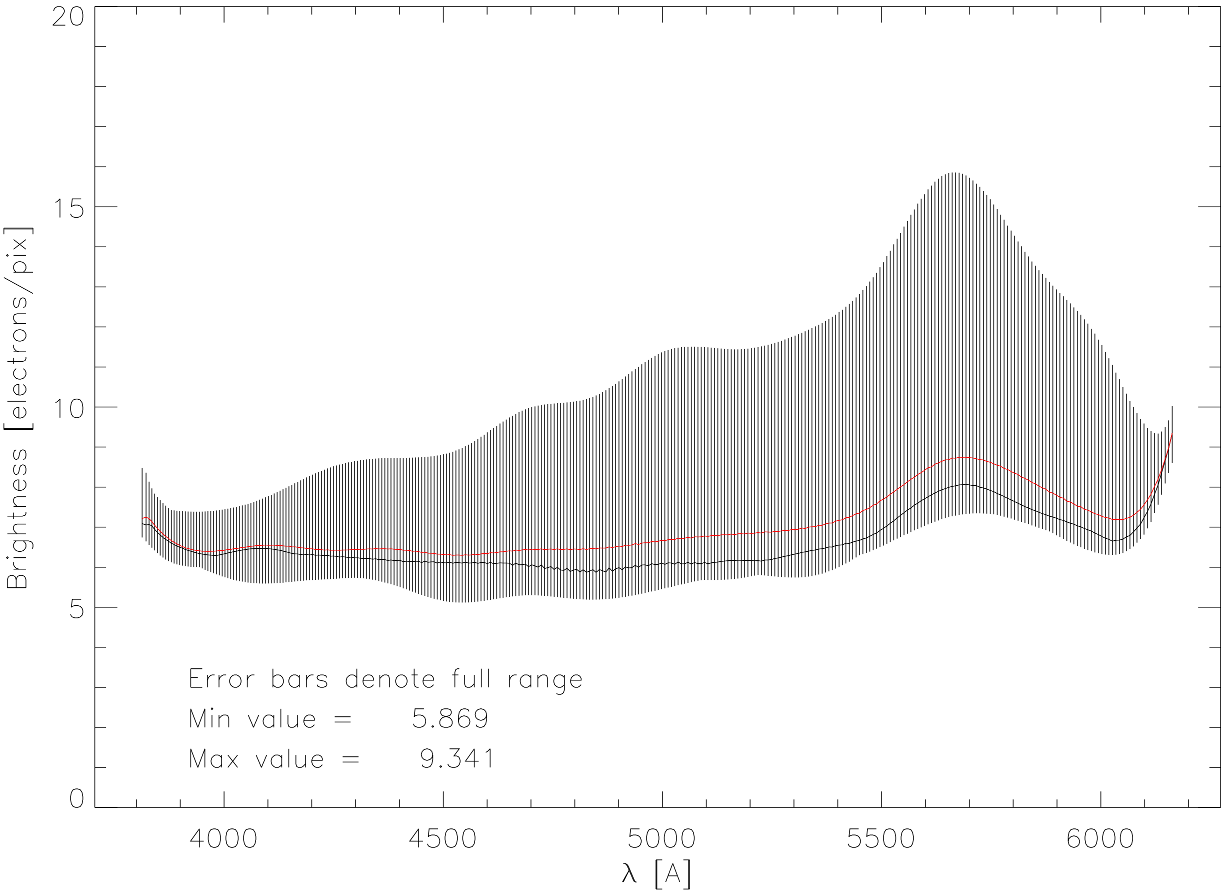


PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-b1-00038904.f

Sun Feb 17 10:16:53 2008

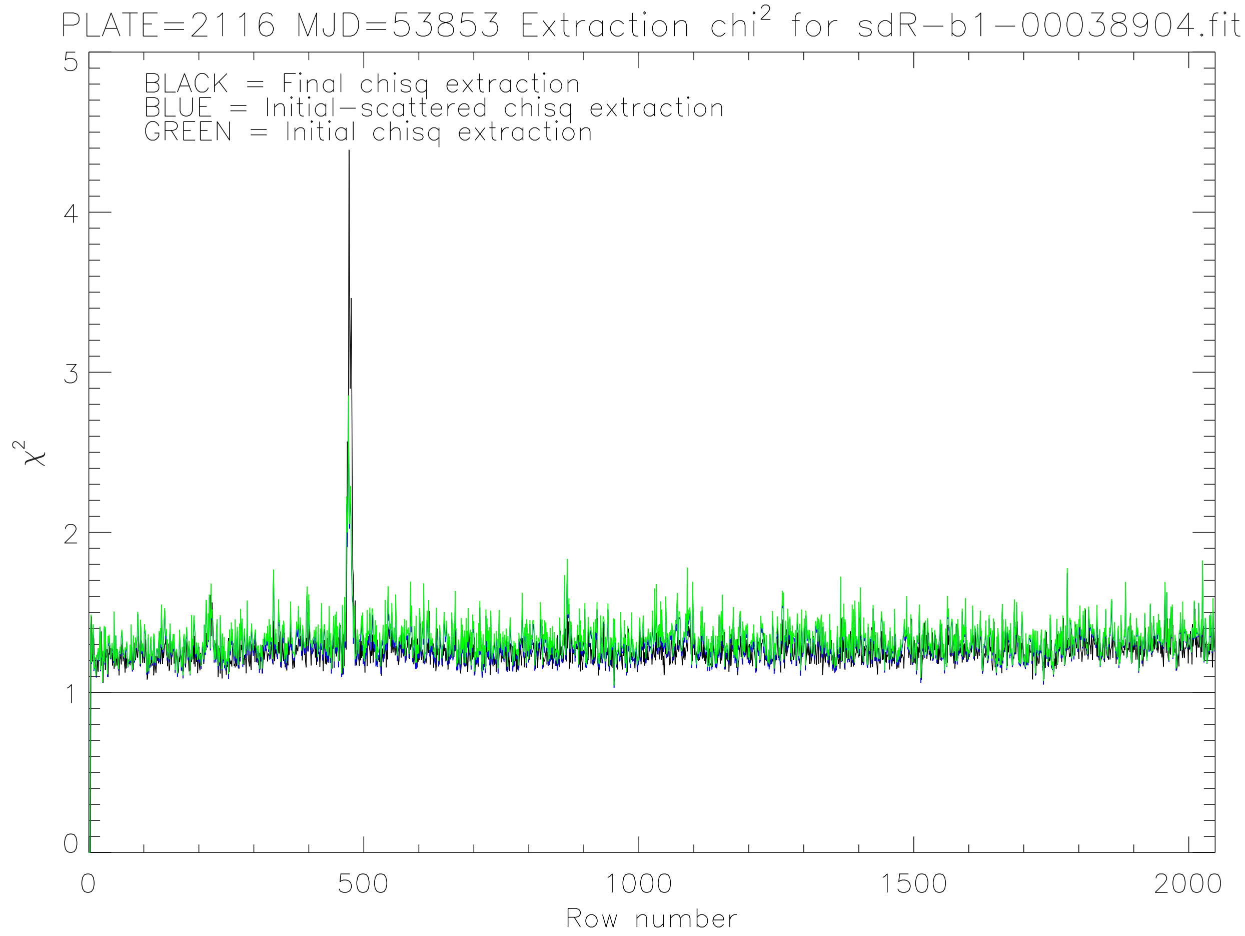


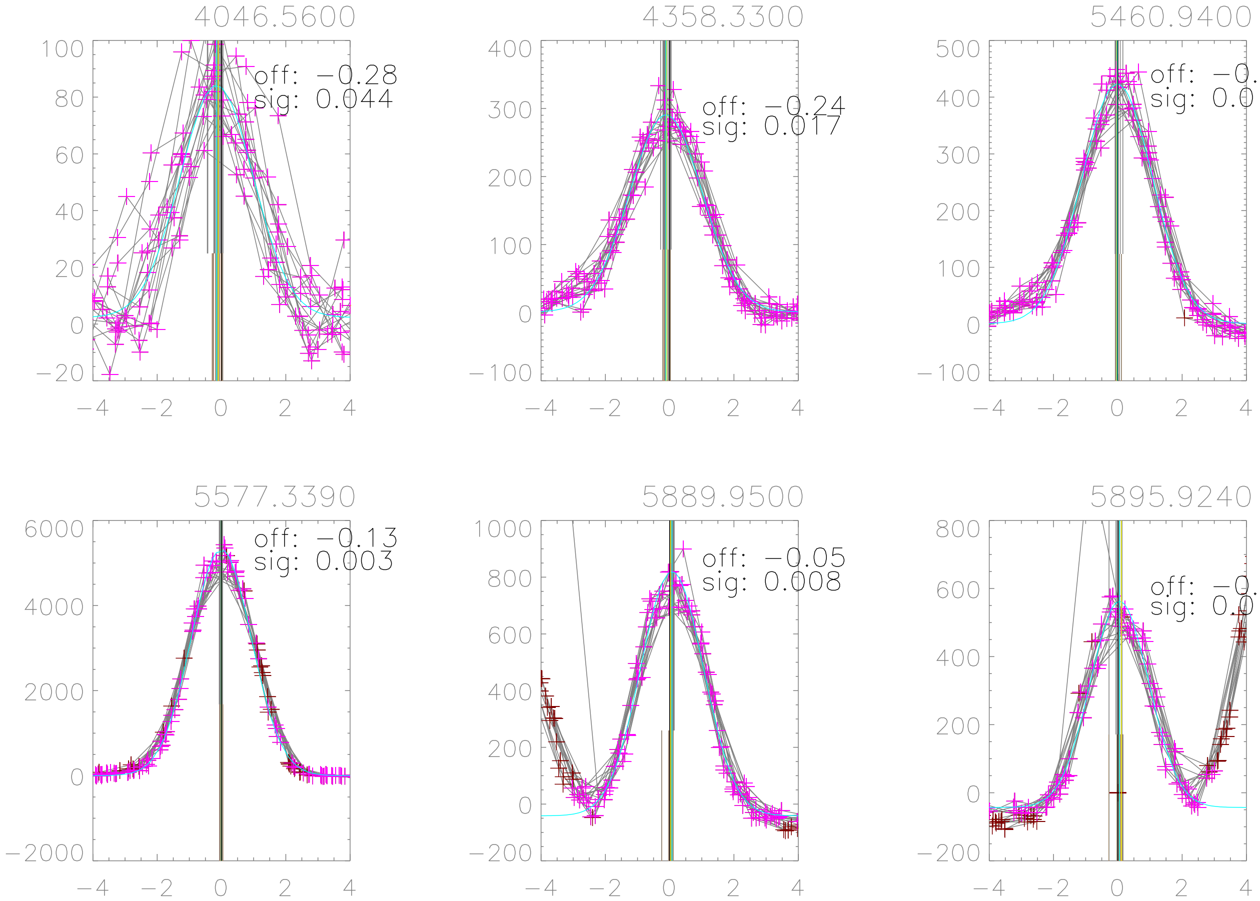
PLATE=2116 MJD=53853 Scattered Light on sdR-b1-00038904.fit

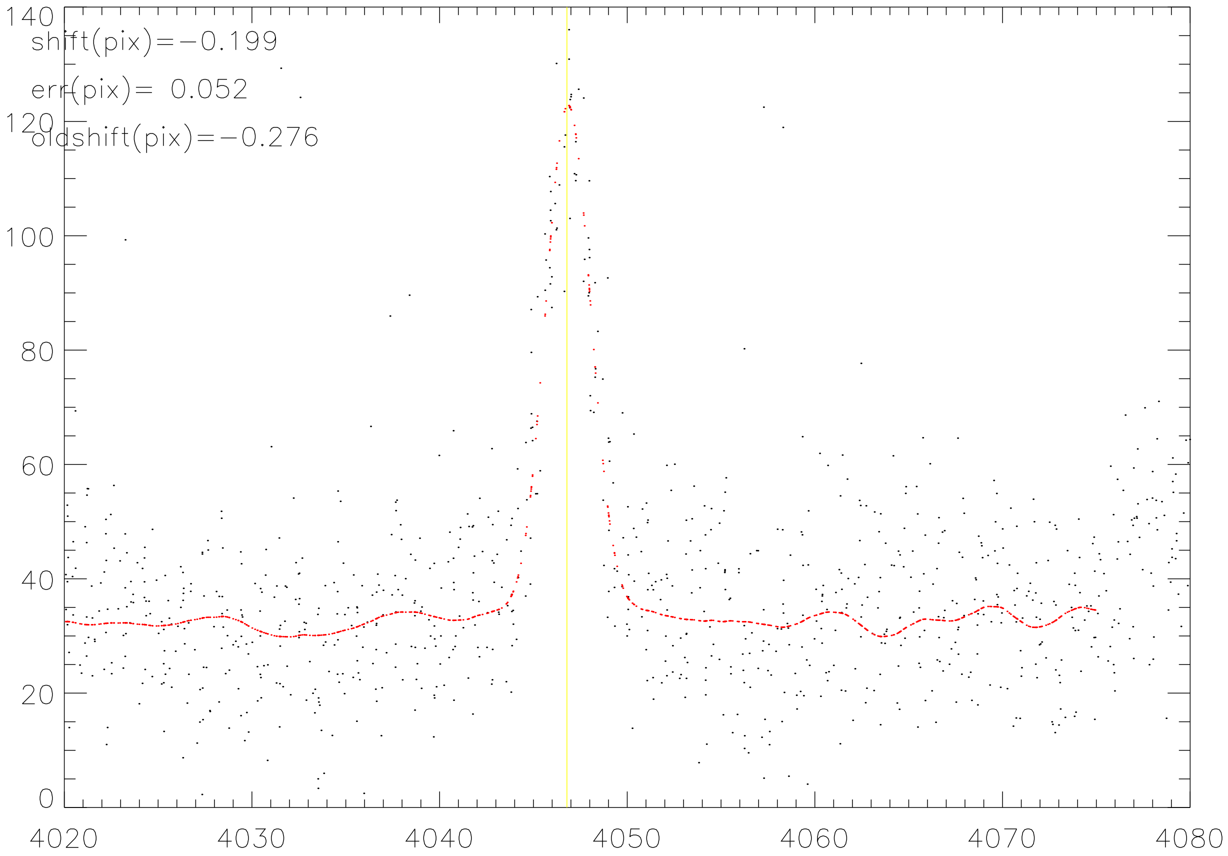


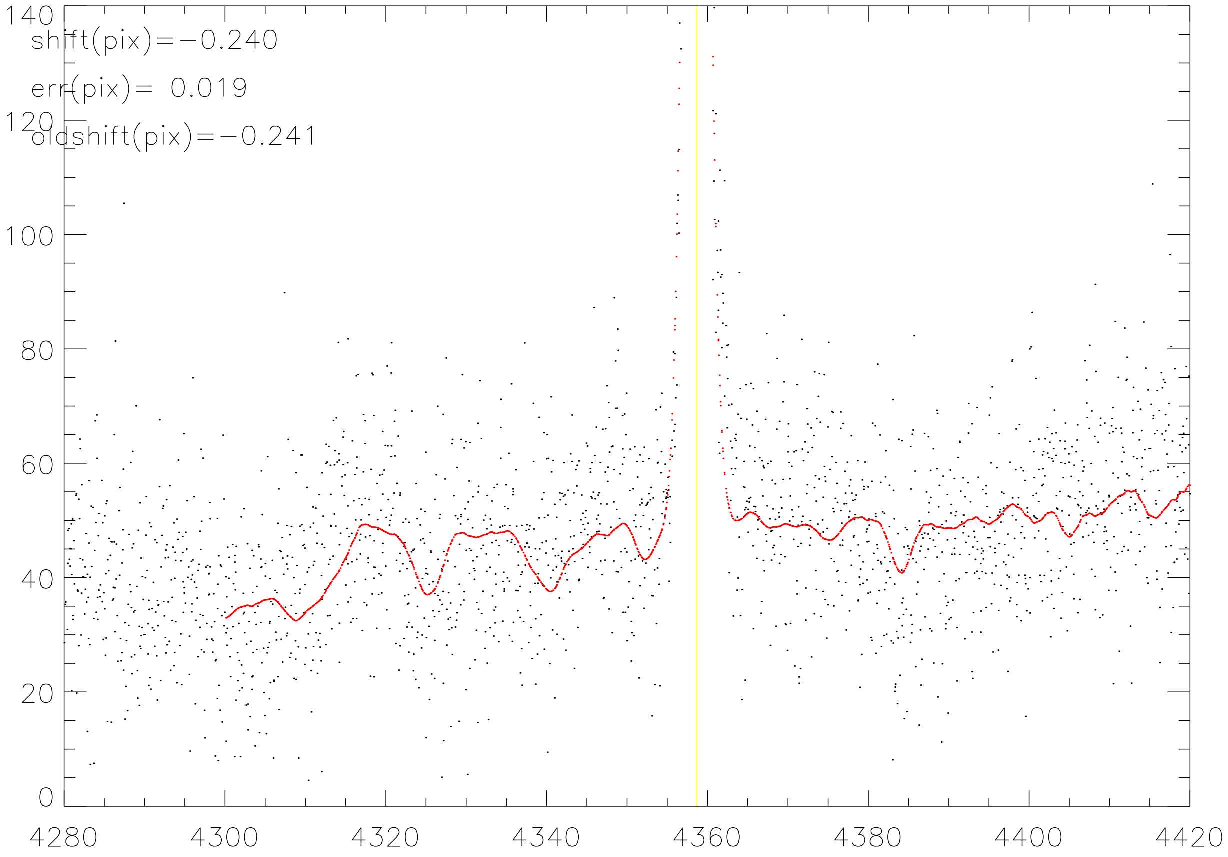
PLATE=2116 MJD=53853 Scattered Light on sdR-b1-00038904.fit

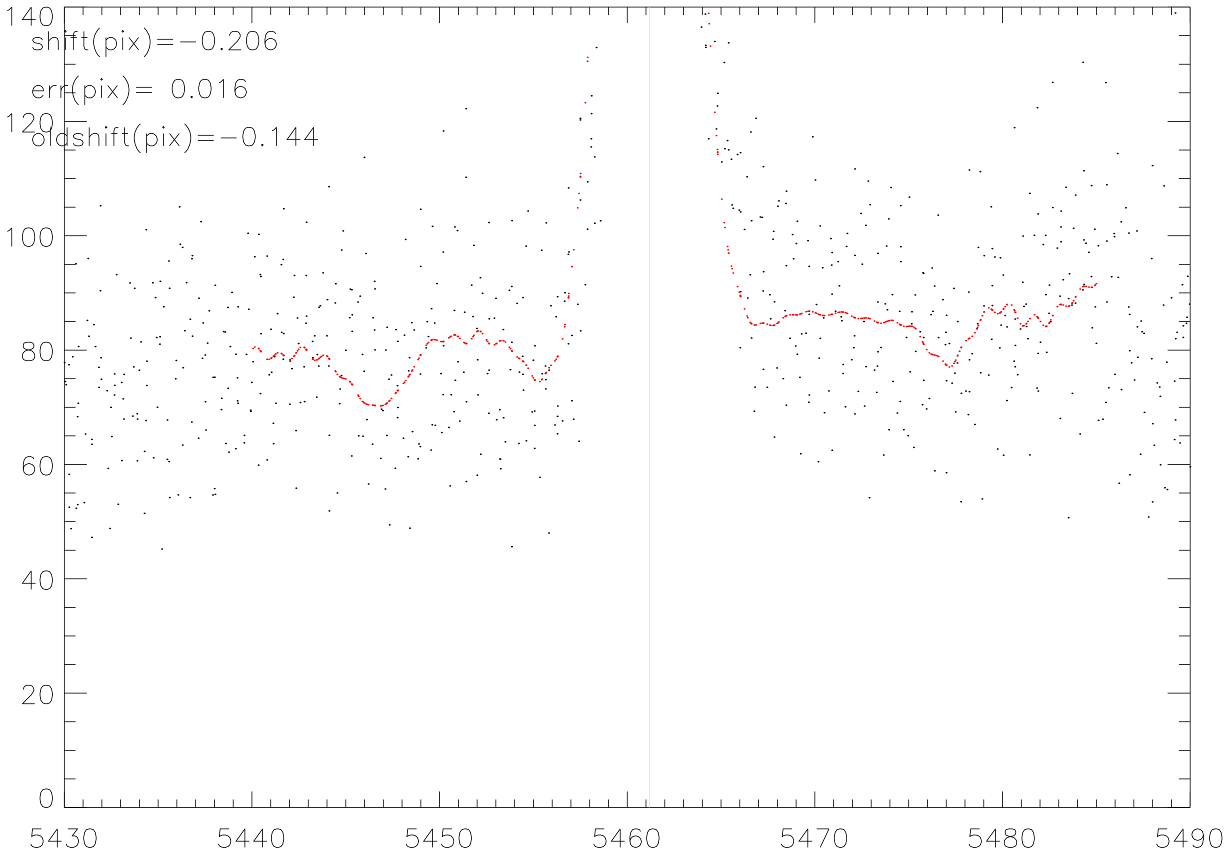
Sun Feb 17 10:20:15 2008

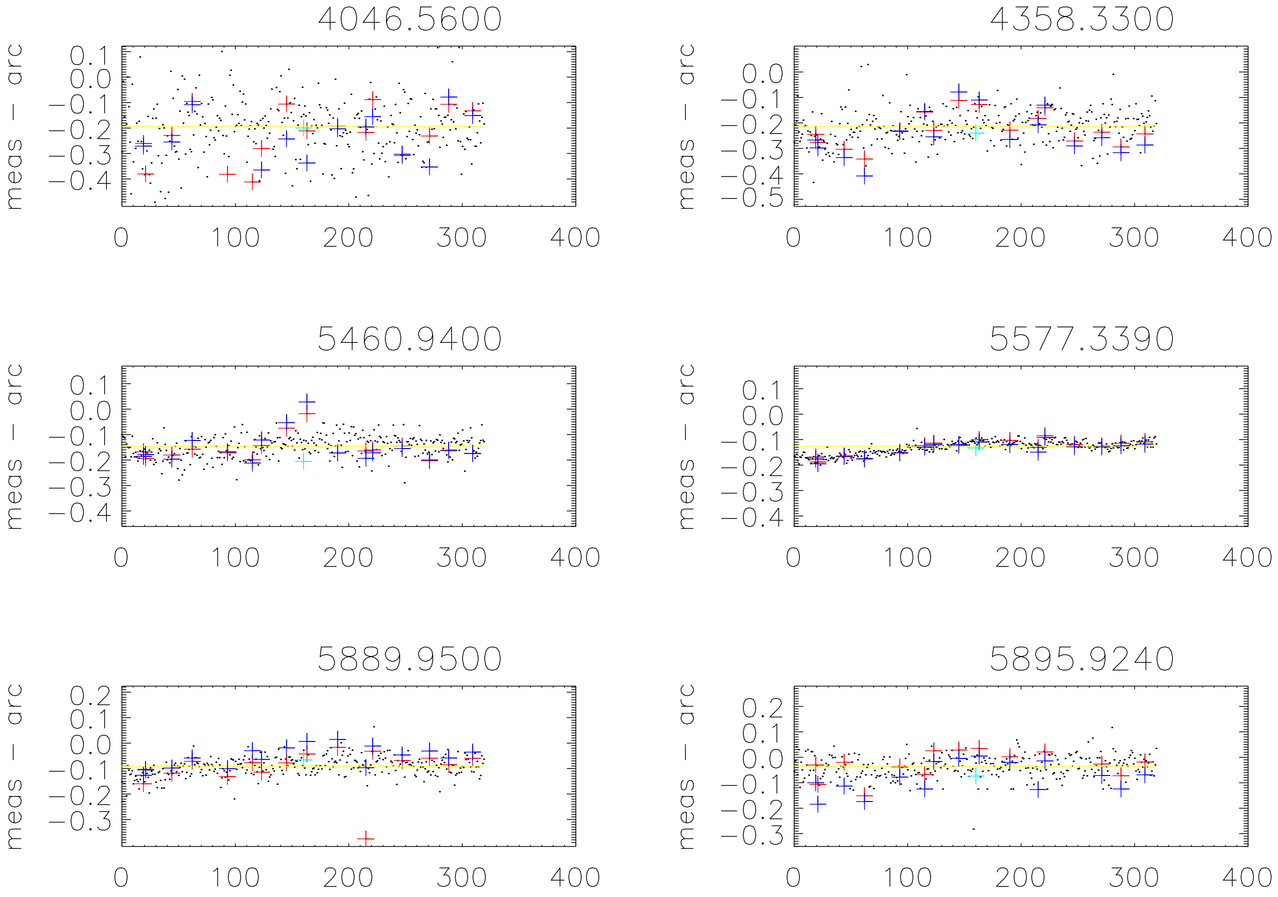

PLATE=2116 MJD=53853 Extraction chi^2 for sdR-b1-00038904.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number


4046.5600
off: −0.28
sig: 0.044
100
80
60
40
20
0
−20
−4
−2
0
2
4
4358.3300
off: −0.24
sig: 0.017
400
300
200
100
0
−100
5460.9400
off: −0.14
sig: 0.013
500
400
300
200
100
0
−100
5577.3390
off: −0.13
sig: 0.003
6000
4000
2000
0
−2000
5889.9500
off: −0.05
sig: 0.008
1000
800
600
400
200
0
−200
5895.9240
off: −0.07
sig: 0.010
800
600
400
200
0
−200

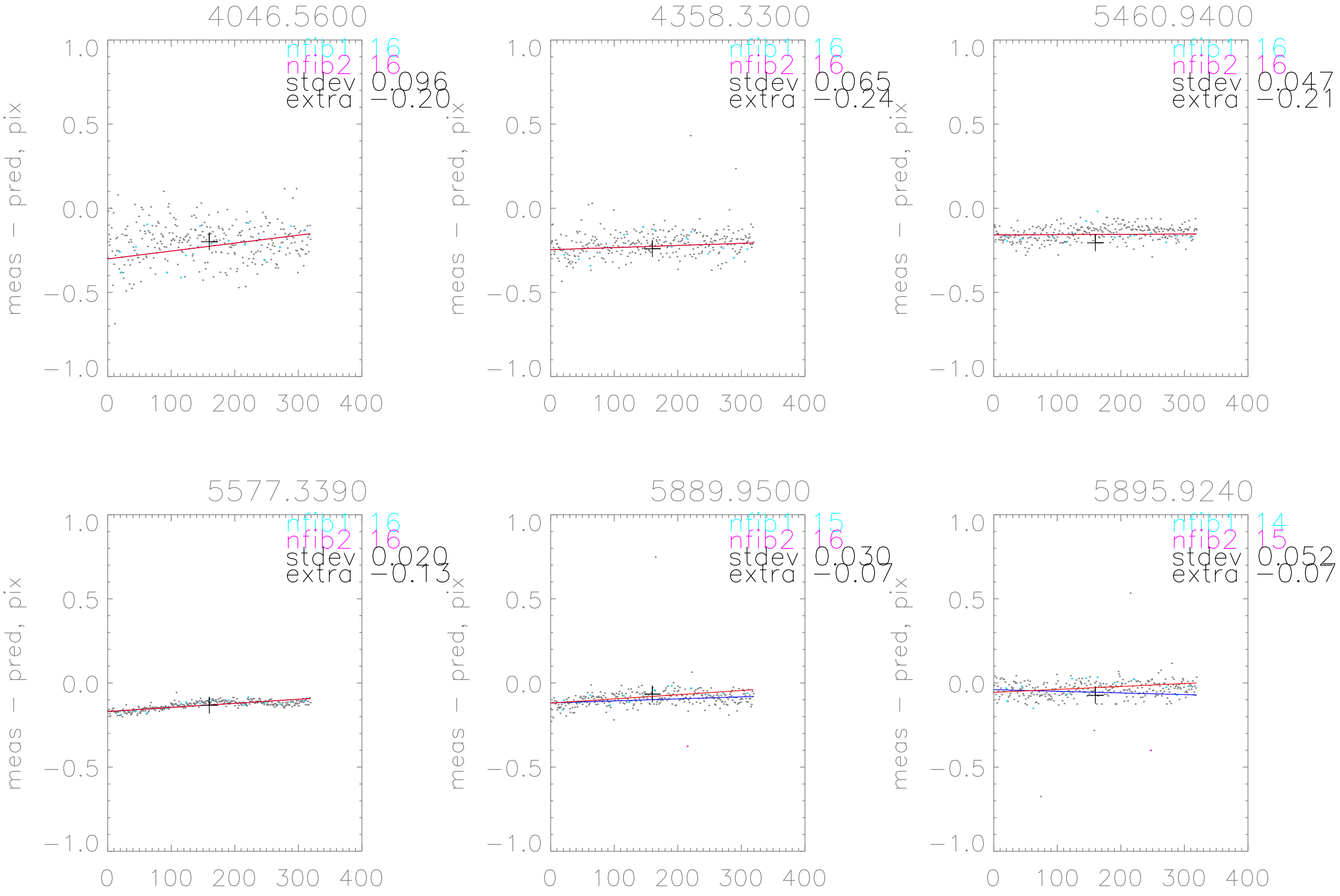

shift(pix)=−0.199
err(pix)= 0.052
oldshift(pix)=−0.276
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

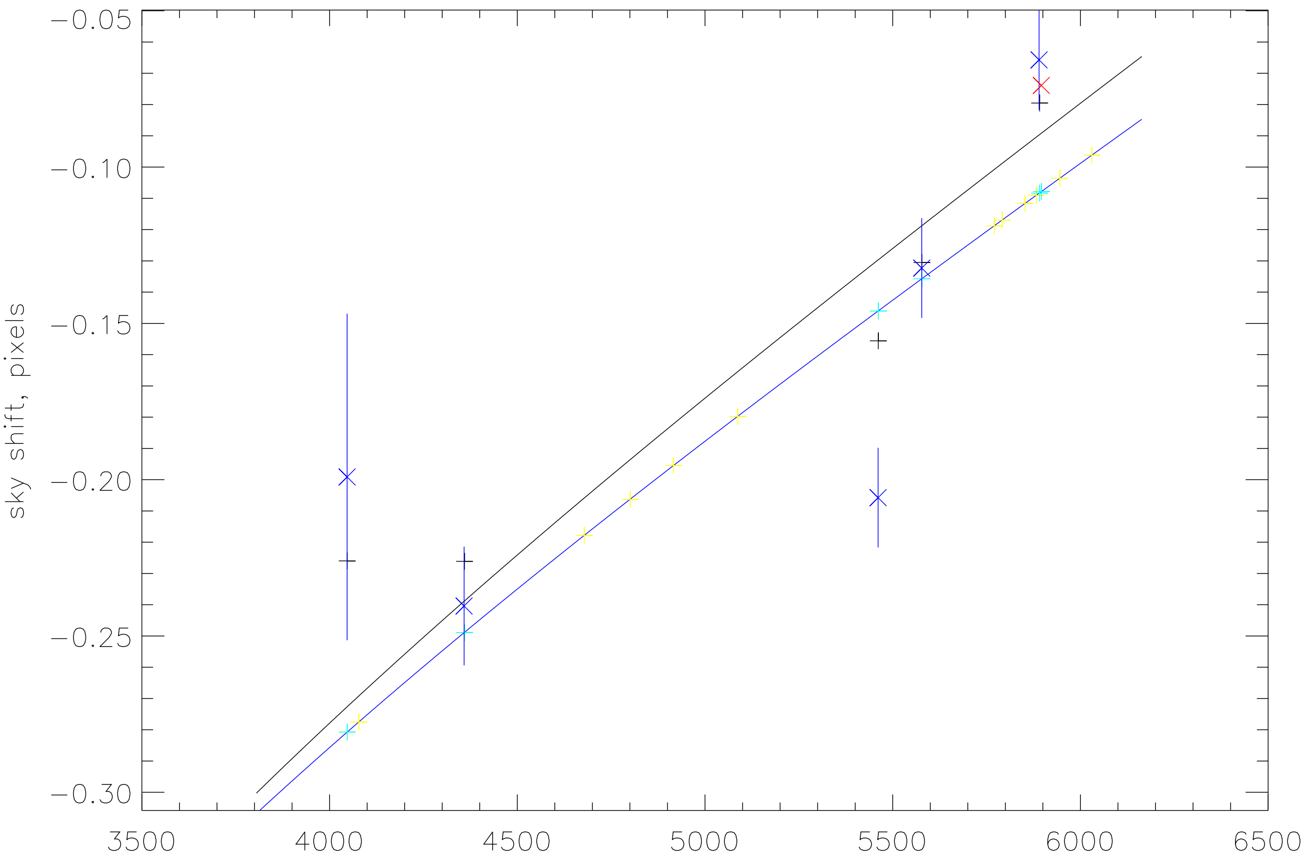

shift(pix)=−0.240
err(pix)= 0.019
oldshift(pix)=−0.241
0
20
40
60
80
100
120
140
4280
4300
4320
4340
4360
4380
4400
4420

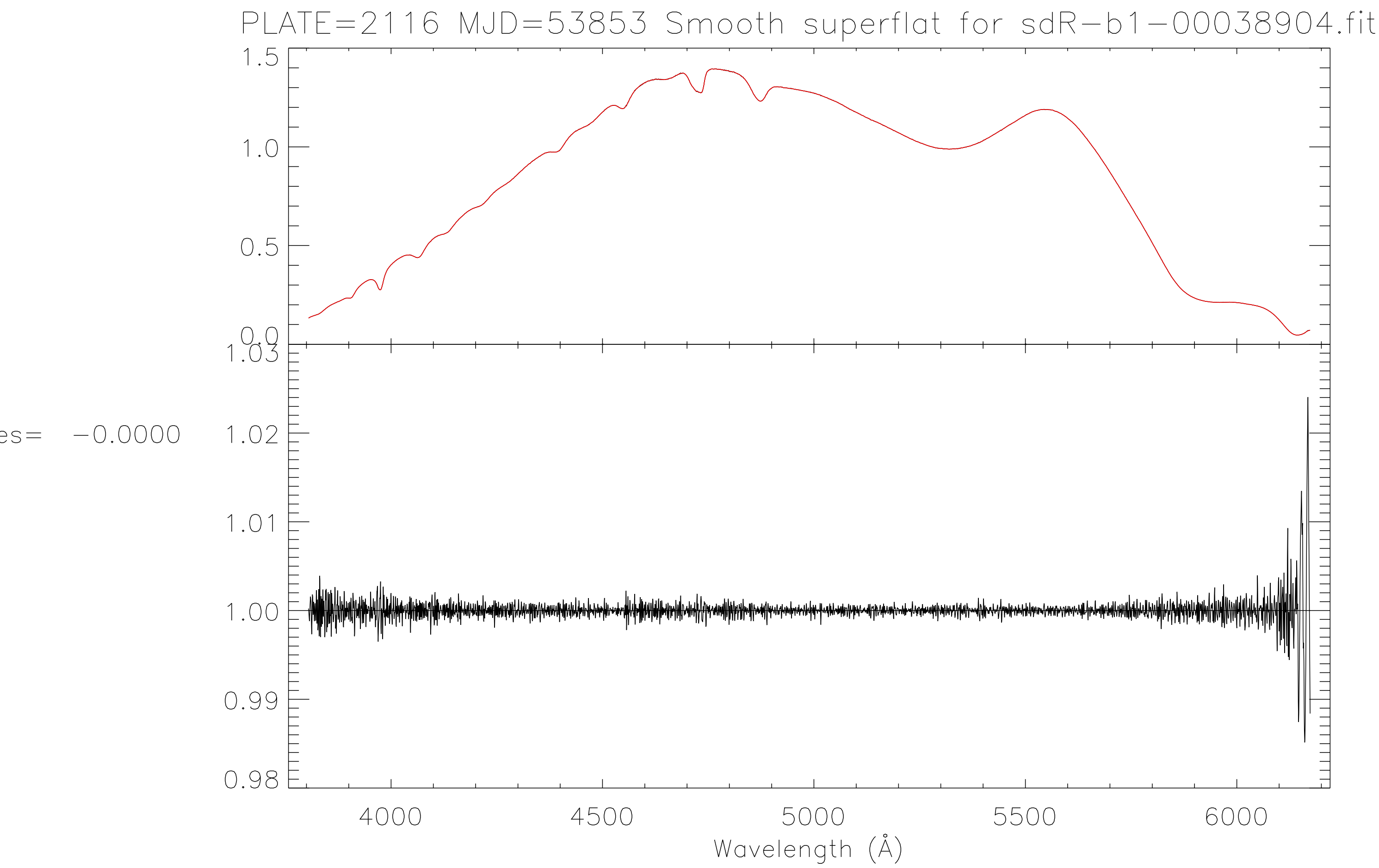

shift(pix)=−0.206
err(pix)= 0.016
oldshift(pix)=−0.144
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

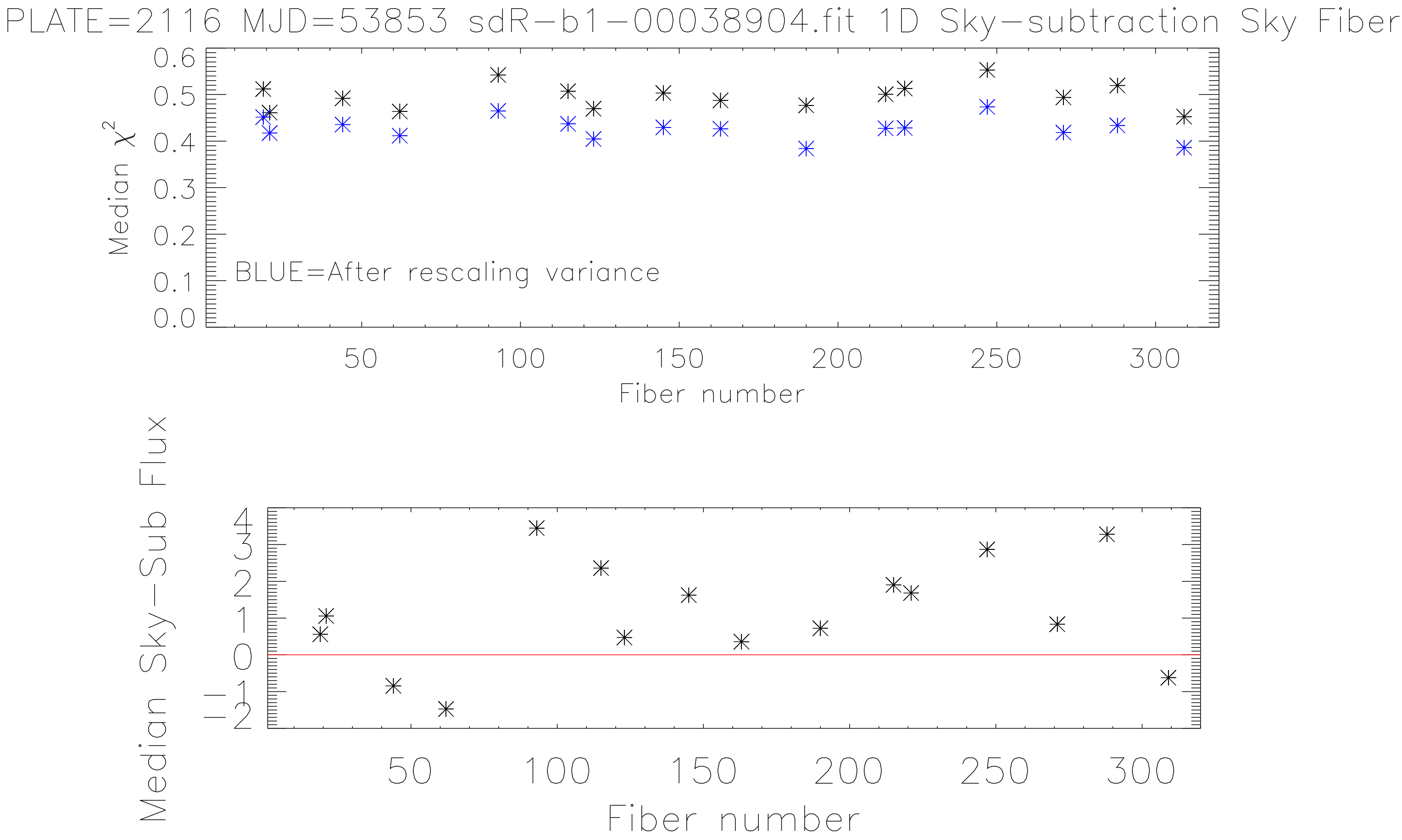


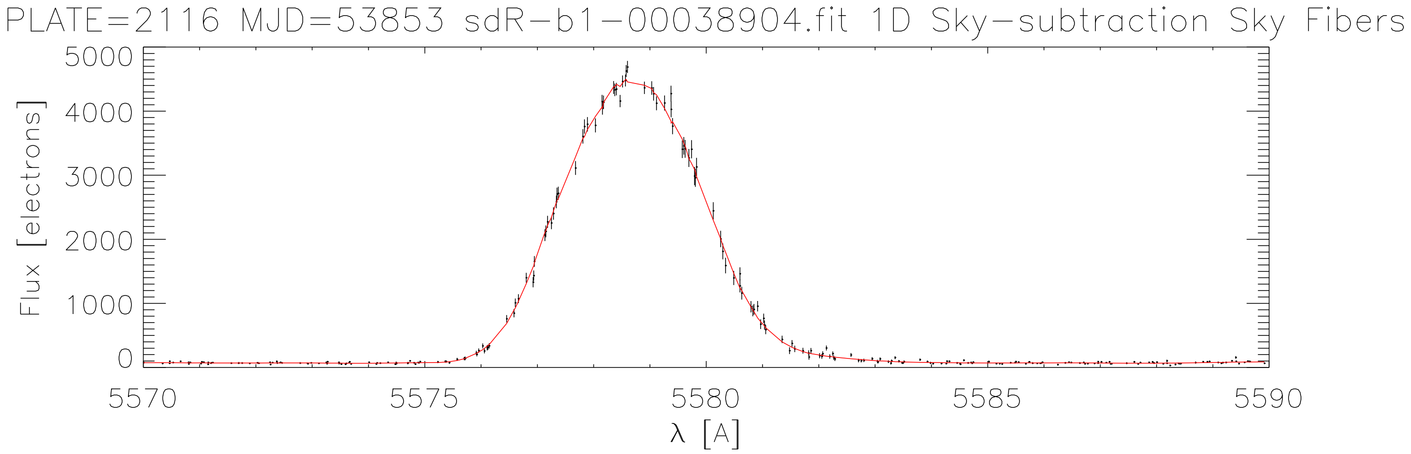
4046.5600
4358.3300
5460.9400
5577.3390
5889.9500
5895.9240
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

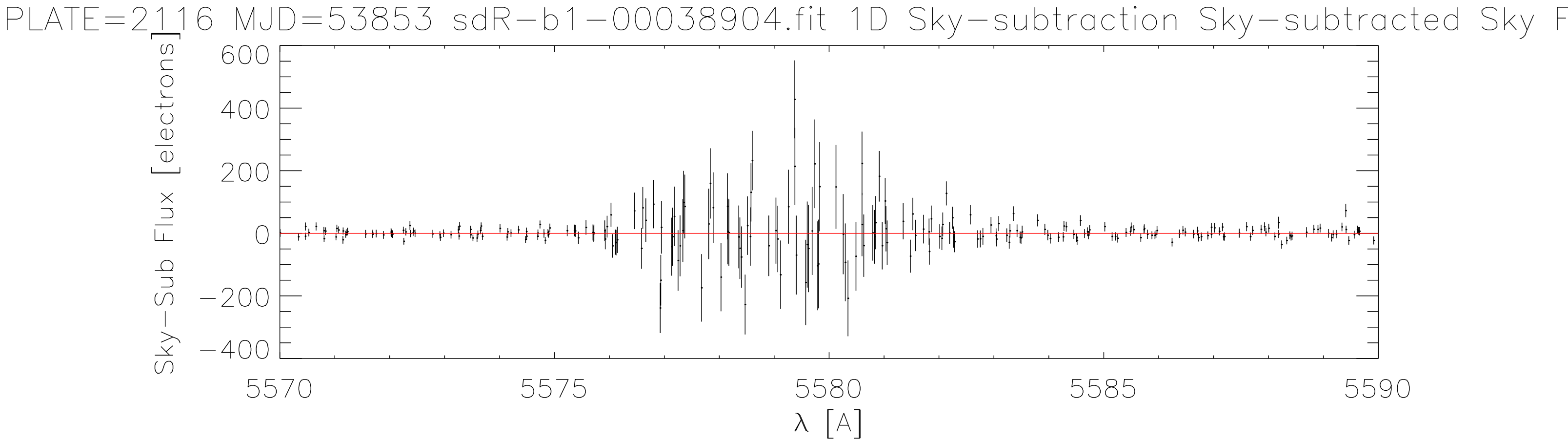

4046.5600
nfib1 16
nfib2 16
stdev 0.096
extra −0.20
4358.3300
nfib1 16
nfib2 16
stdev 0.065
extra −0.24
5460.9400
nfib1 16
nfib2 16
stdev 0.047
extra −0.21
5577.3390
nfib1 16
nfib2 16
stdev 0.020
extra −0.13
5889.9500
nfib1 15
nfib2 16
stdev 0.030
extra −0.07
5895.9240
nfib1 14
nfib2 15
stdev 0.052
extra −0.07
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

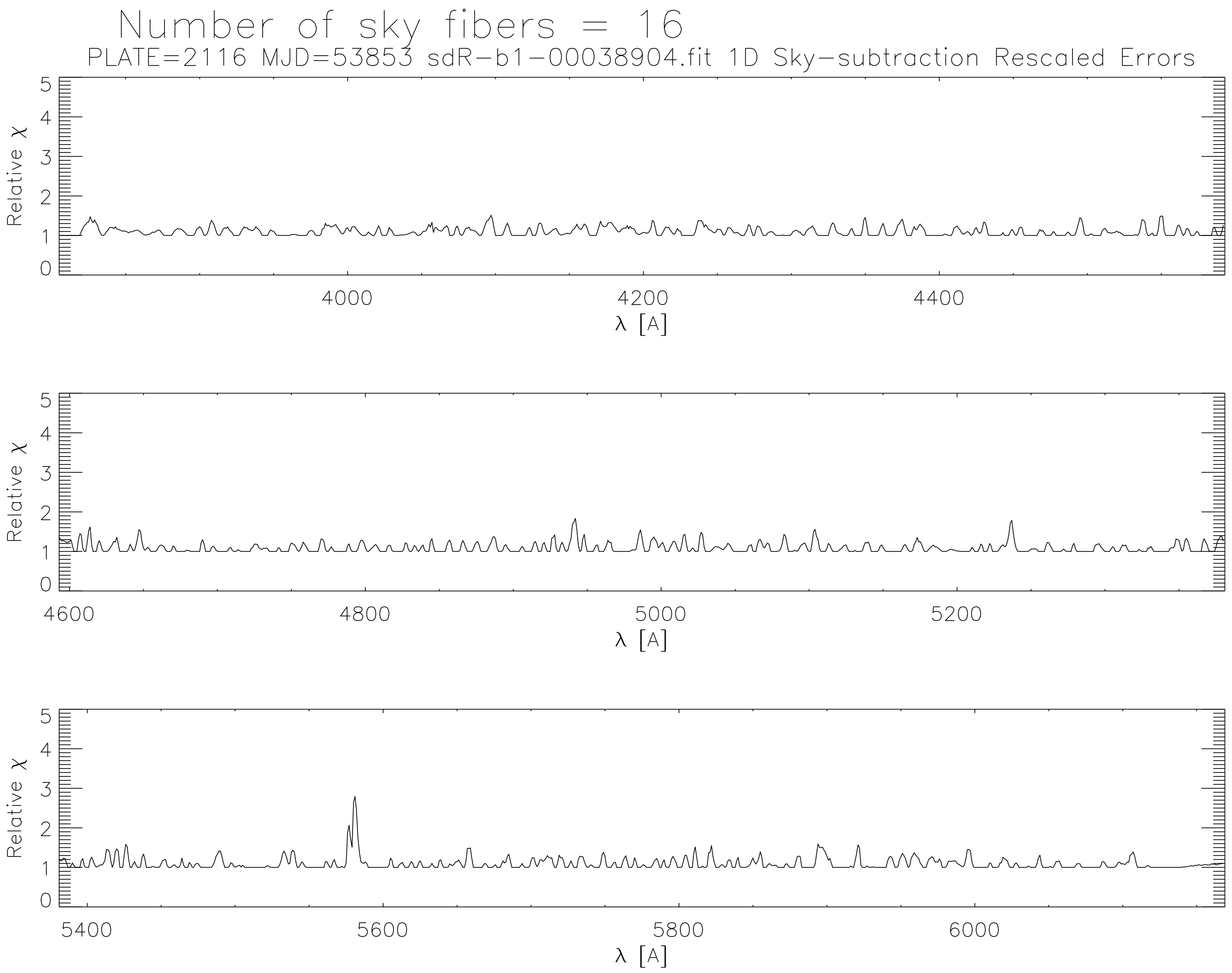

sky shift, pixels
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
3500
4000
4500
5000
5500
6000
6500

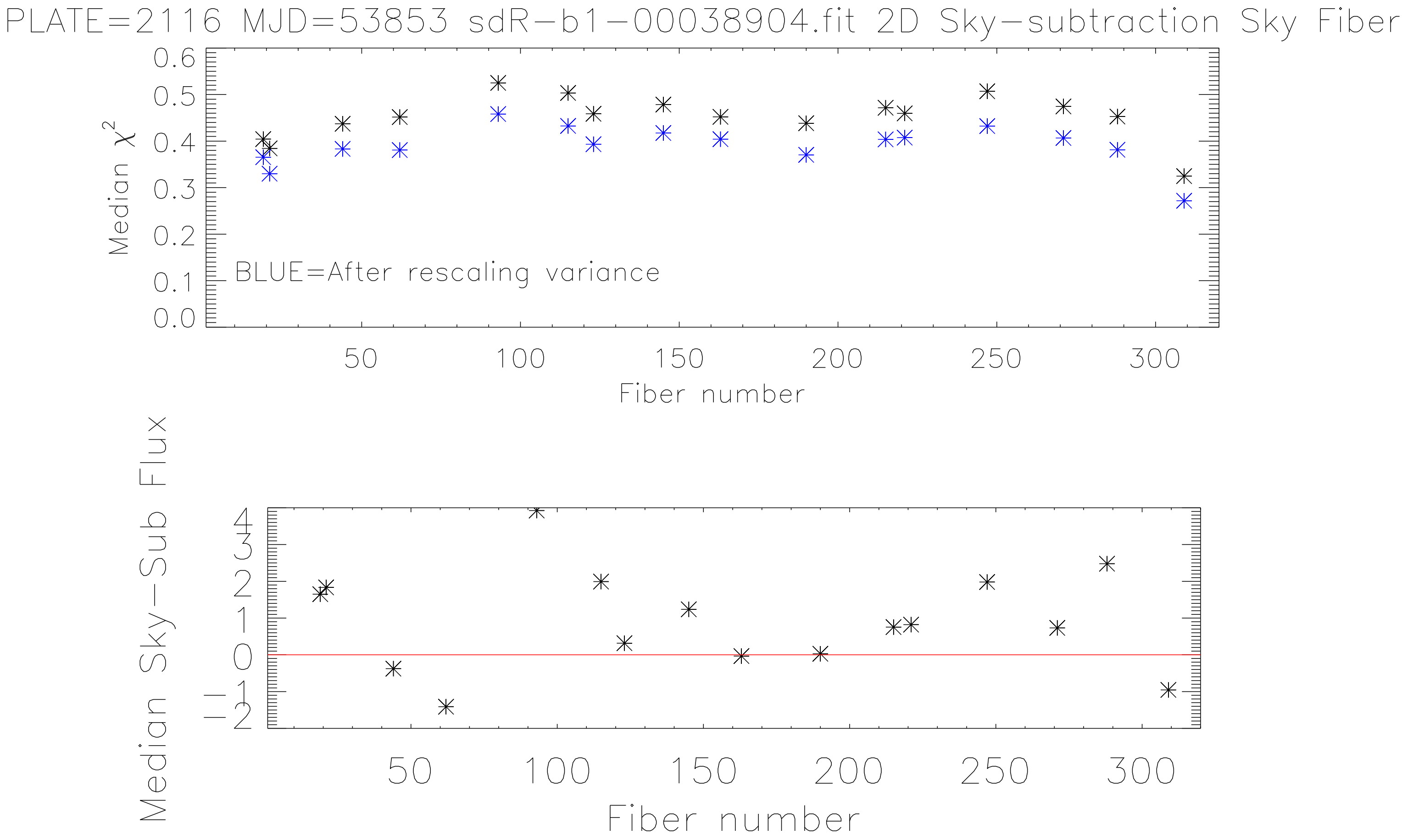

PLATE=2116 MJD=53853 Smooth superflat for sdR-b1-00038904.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

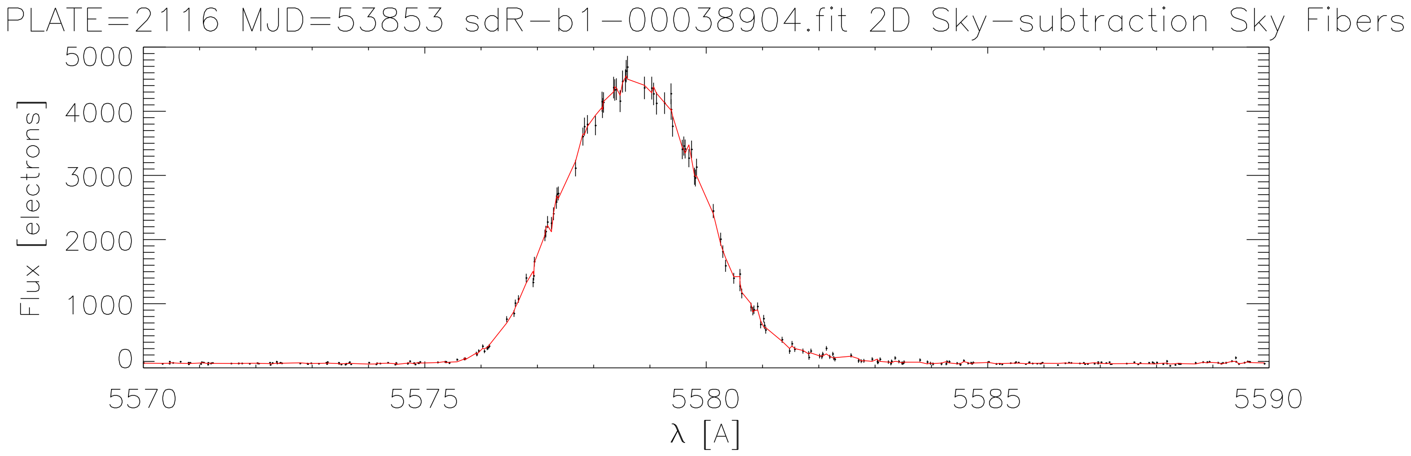

PLATE=2116 MJD=53853 sdR-b1-00038904.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-2
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

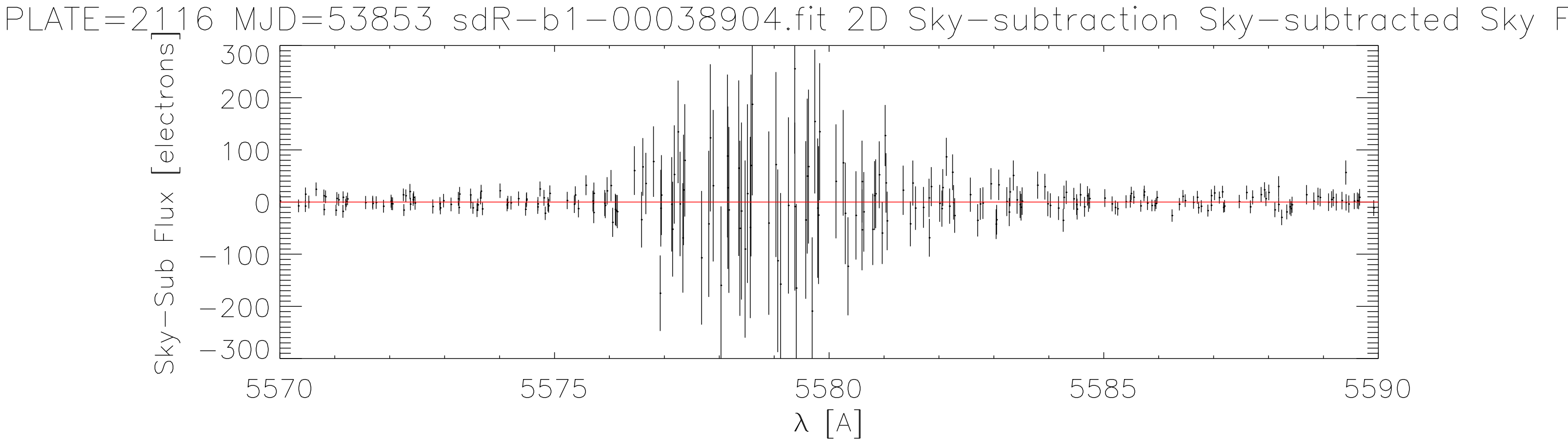

PLATE=2116 MJD=53853 sdR-b1-00038904.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=2116 MJD=53853 sdR-b1-00038904.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
600
400
200
0
−200
−400
5570
5575
5580
5585
5590
λ [A]


Number of sky fibers = 16
PLATE=2116 MJD=53853 sdR-b1-00038904.fit 1D Sky-subtraction Rescaled Errors
Relative χ
0
1
2
3
4
5
4000
4200
4400
λ [A]
Relative χ
0
1
2
3
4
5
4600
4800
5000
5200
λ [A]
Relative χ
0
1
2
3
4
5
5400
5600
5800
6000
λ [A]

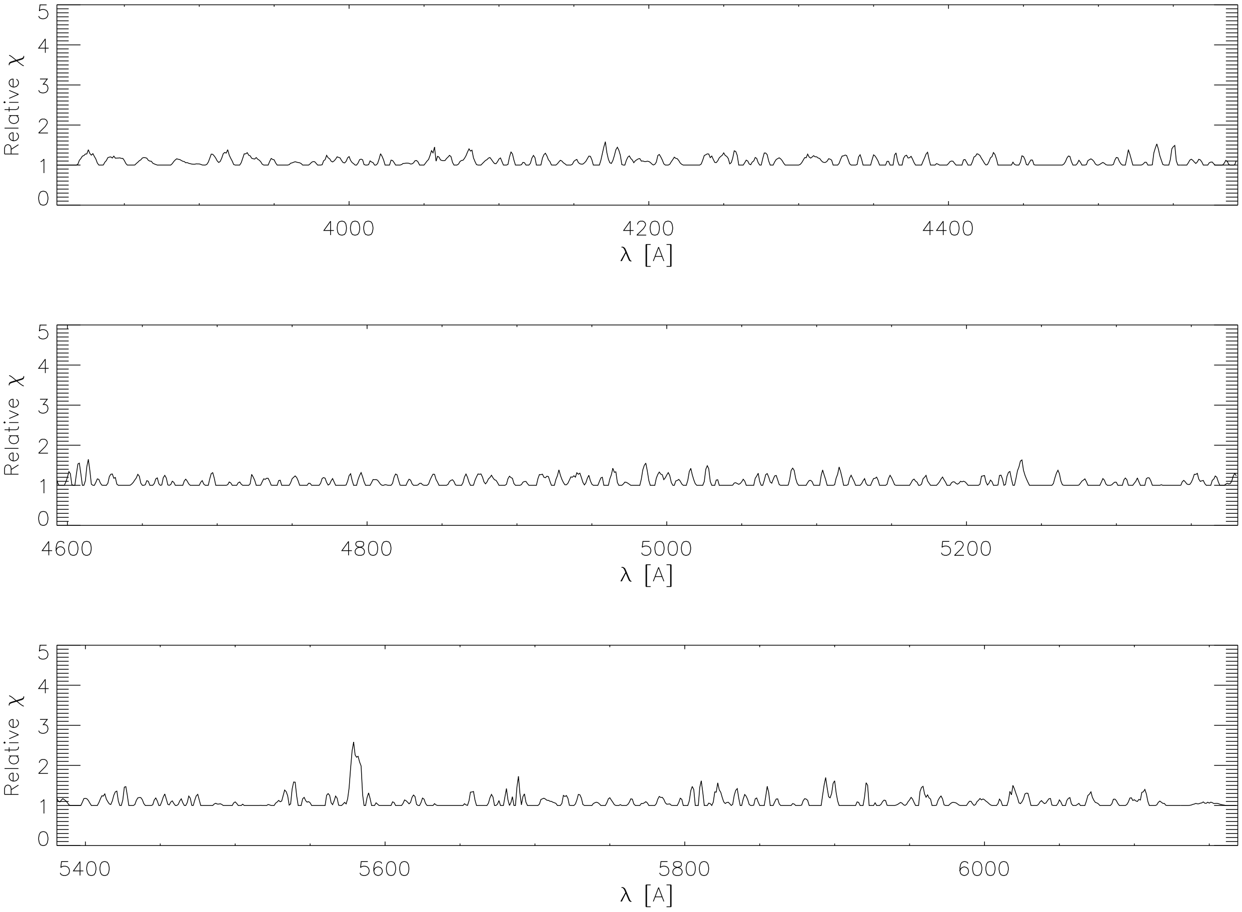

PLATE=2116 MJD=53853 sdR-b1-00038904.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.6
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
4
3
2
1
0
-1
-2
50
100
150
200
250
300
Fiber number


PLATE=2116 MJD=53853 sdR-b1-00038904.fit 2D Sky-subtraction Sky Fibers

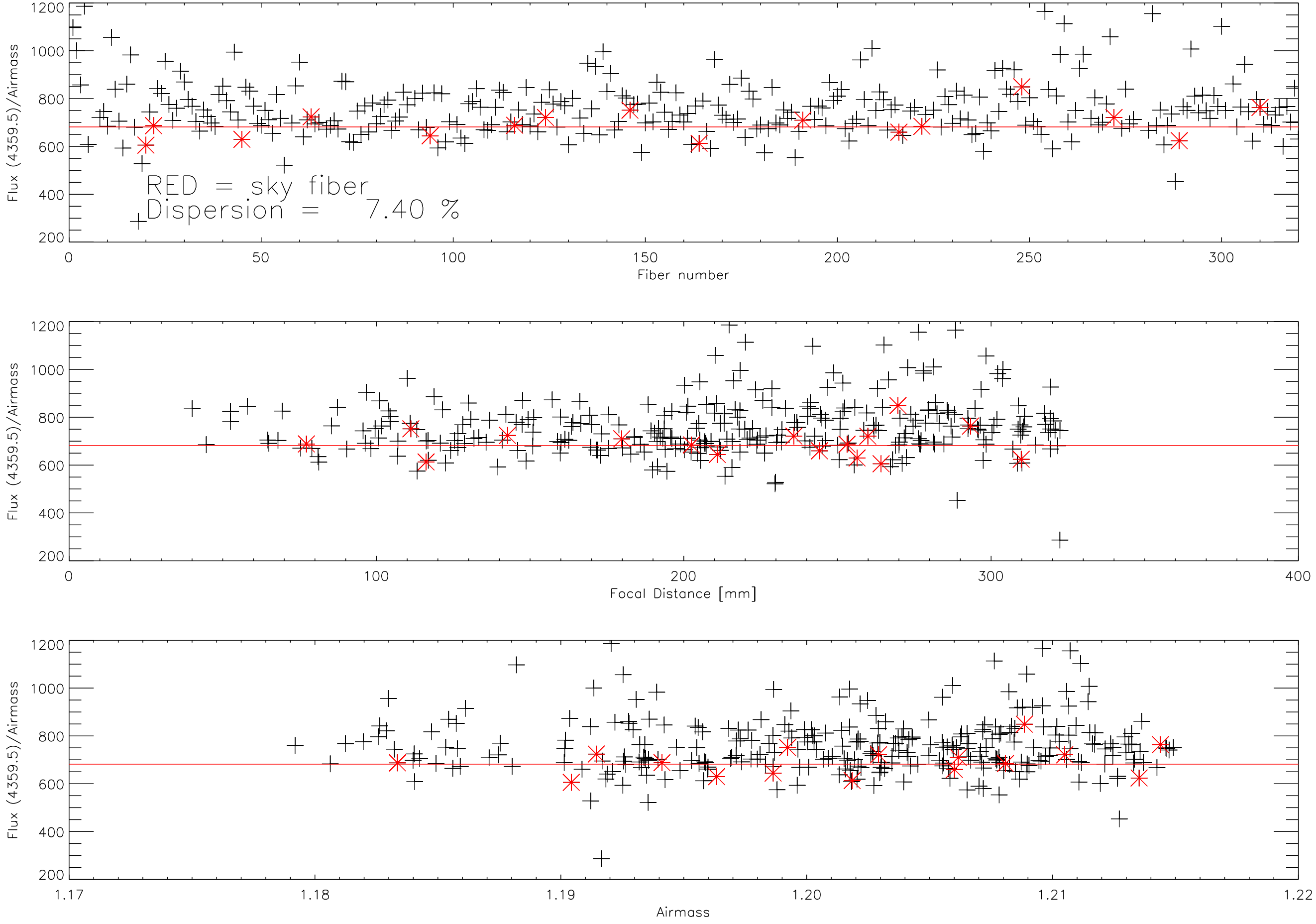

PLATE=2116 MJD=53853 sdR-b1-00038904.fit 2D Sky-subtraction Sky-subtracted Sky F

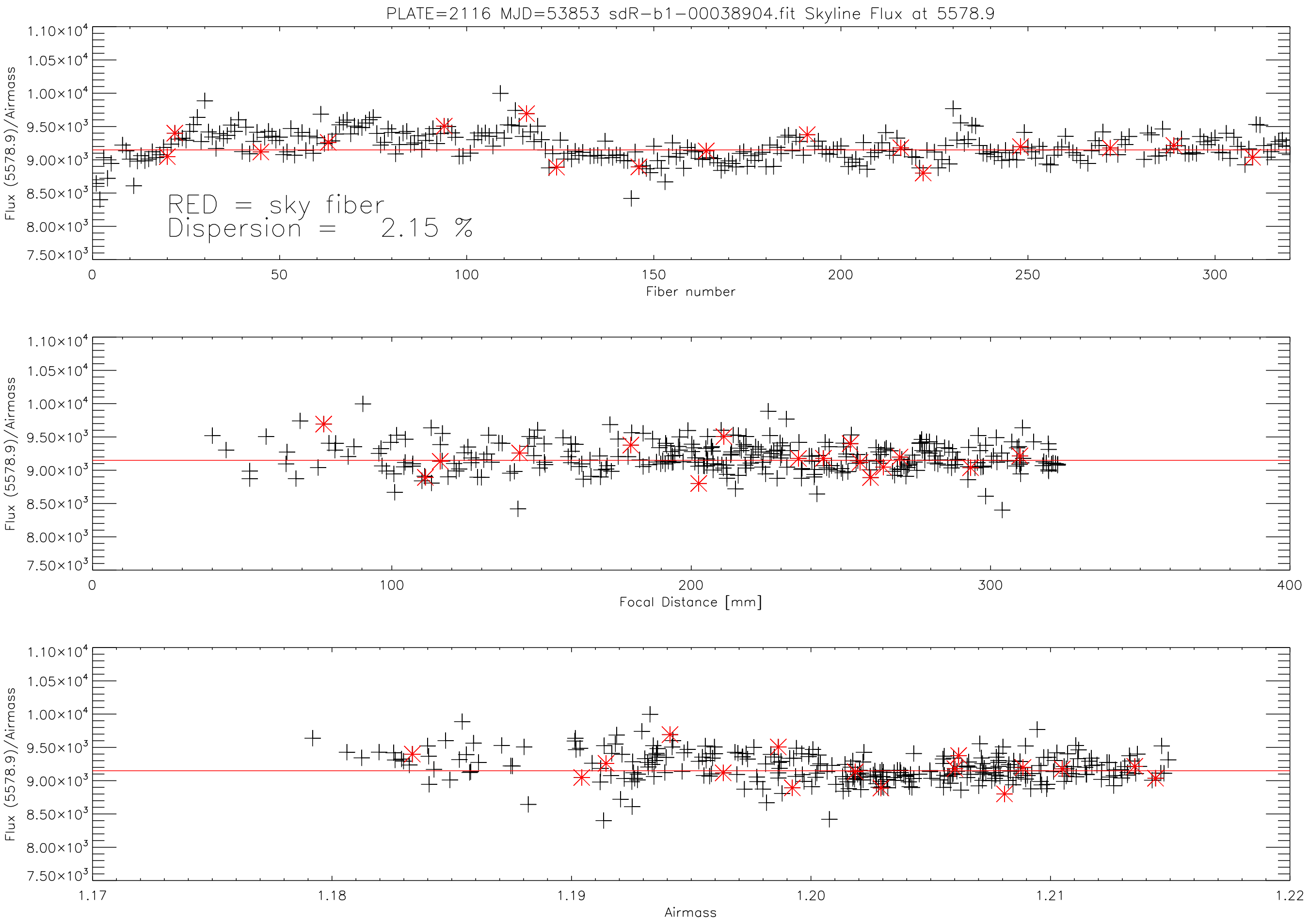
Number of sky fibers = 16

PLATE=2116 MJD=53853 sdR-b1-00038904.fit 2D Sky-subtraction Rescaled Errors

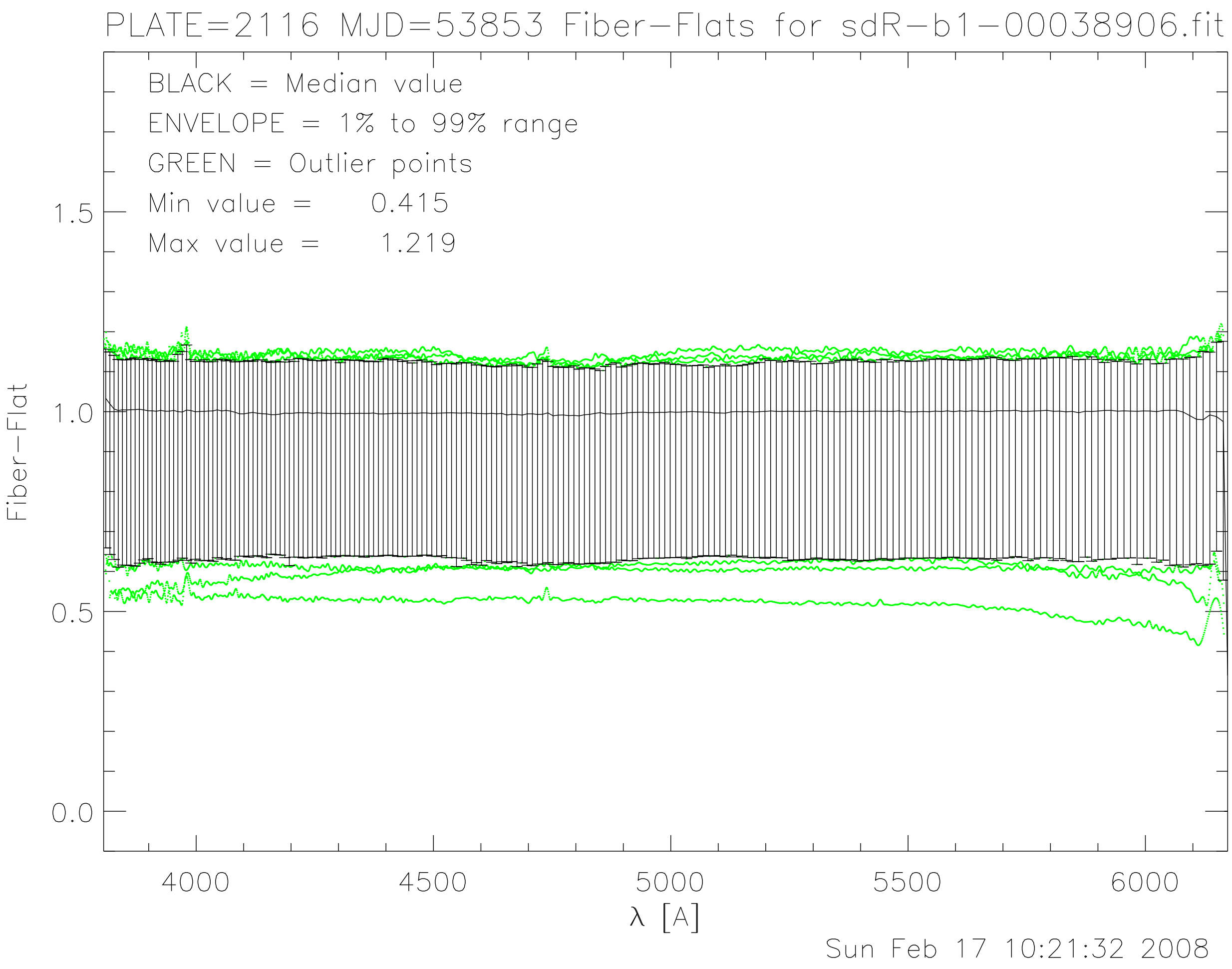


PLATE=2116 MJD=53853 sdR-b1-00038904.fit Skyline Flux at 4359.5



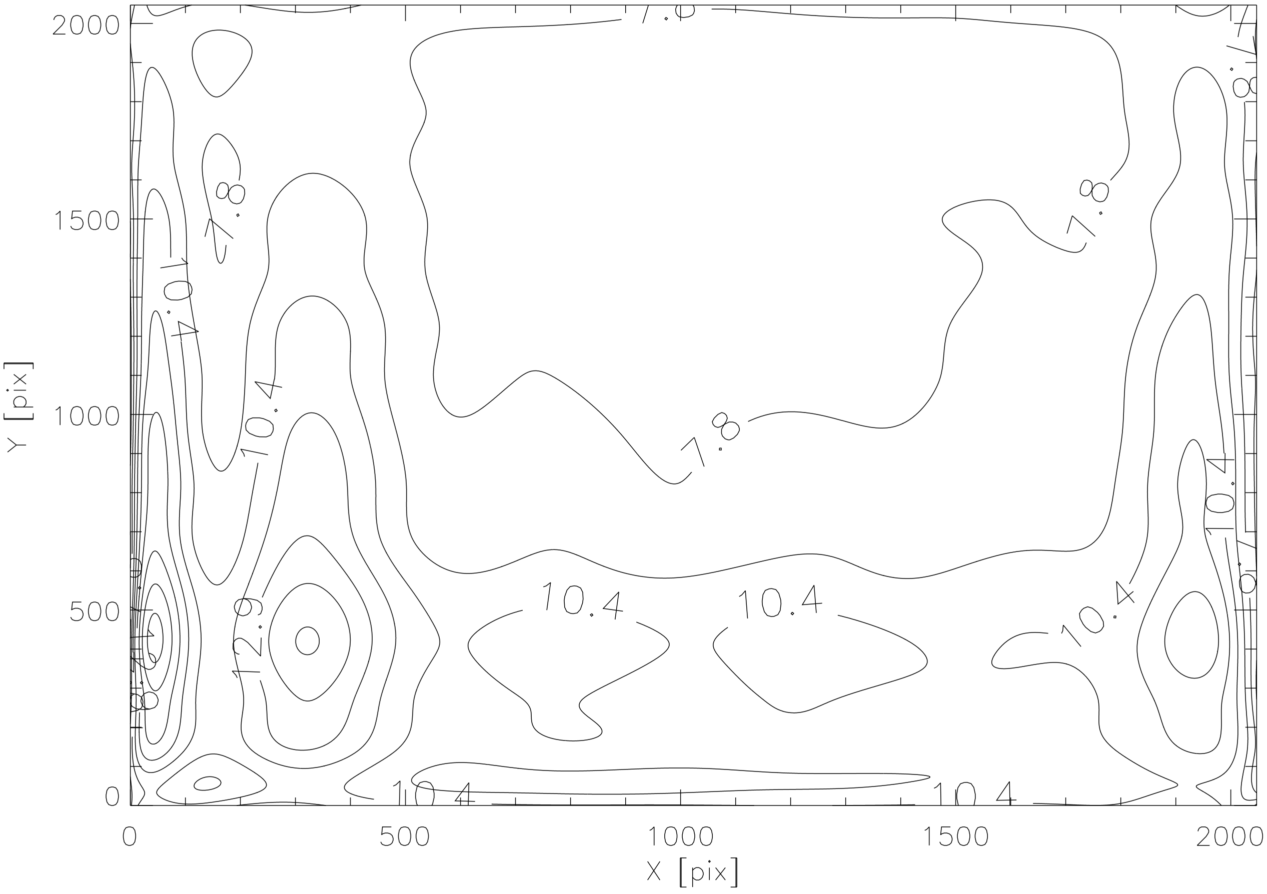


PLATE=2116 MJD=53853 sdR-b1-00038904.fit Skyline Flux at 5578.9

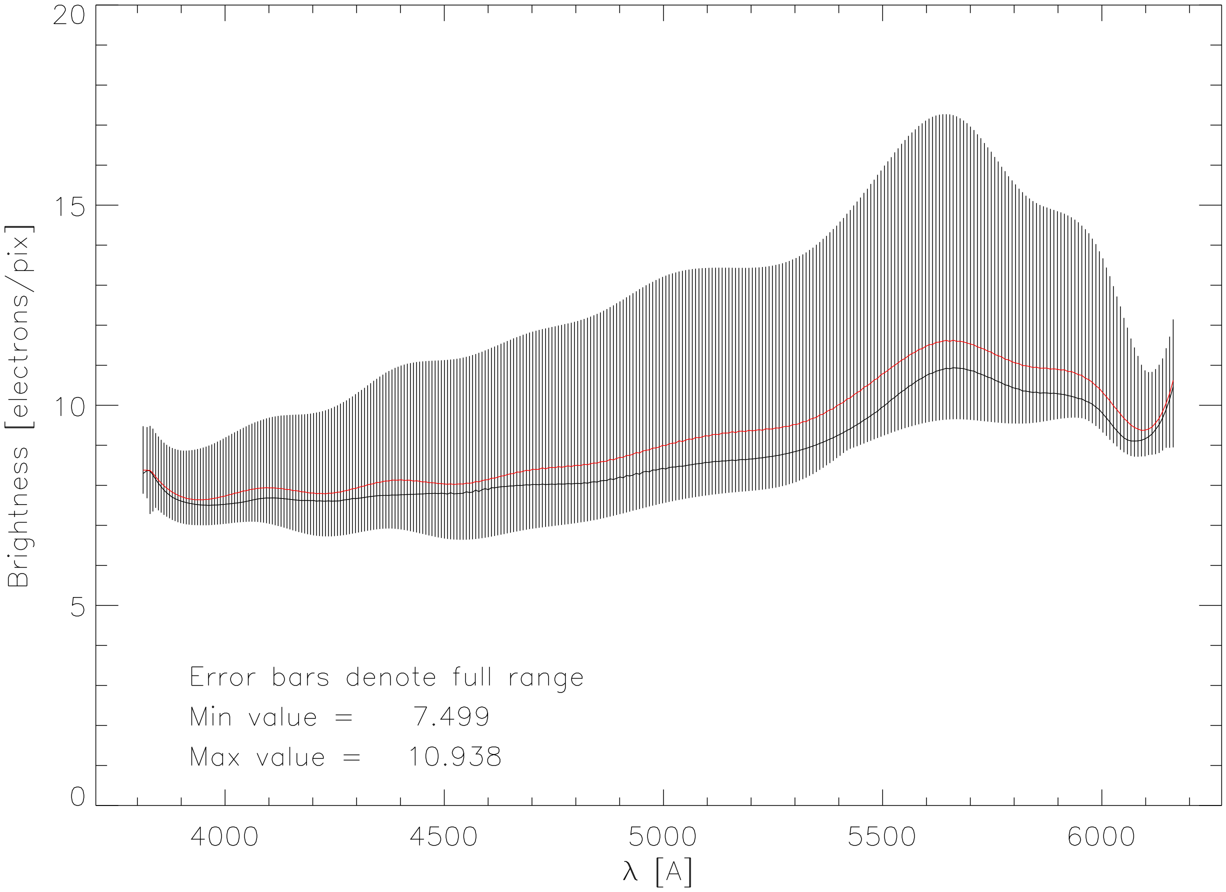

PLATE=2116 MJD=53853 Fiber−Flats for sdR−b1−00038906.fit

Sun Feb 17 10:21:32 2008

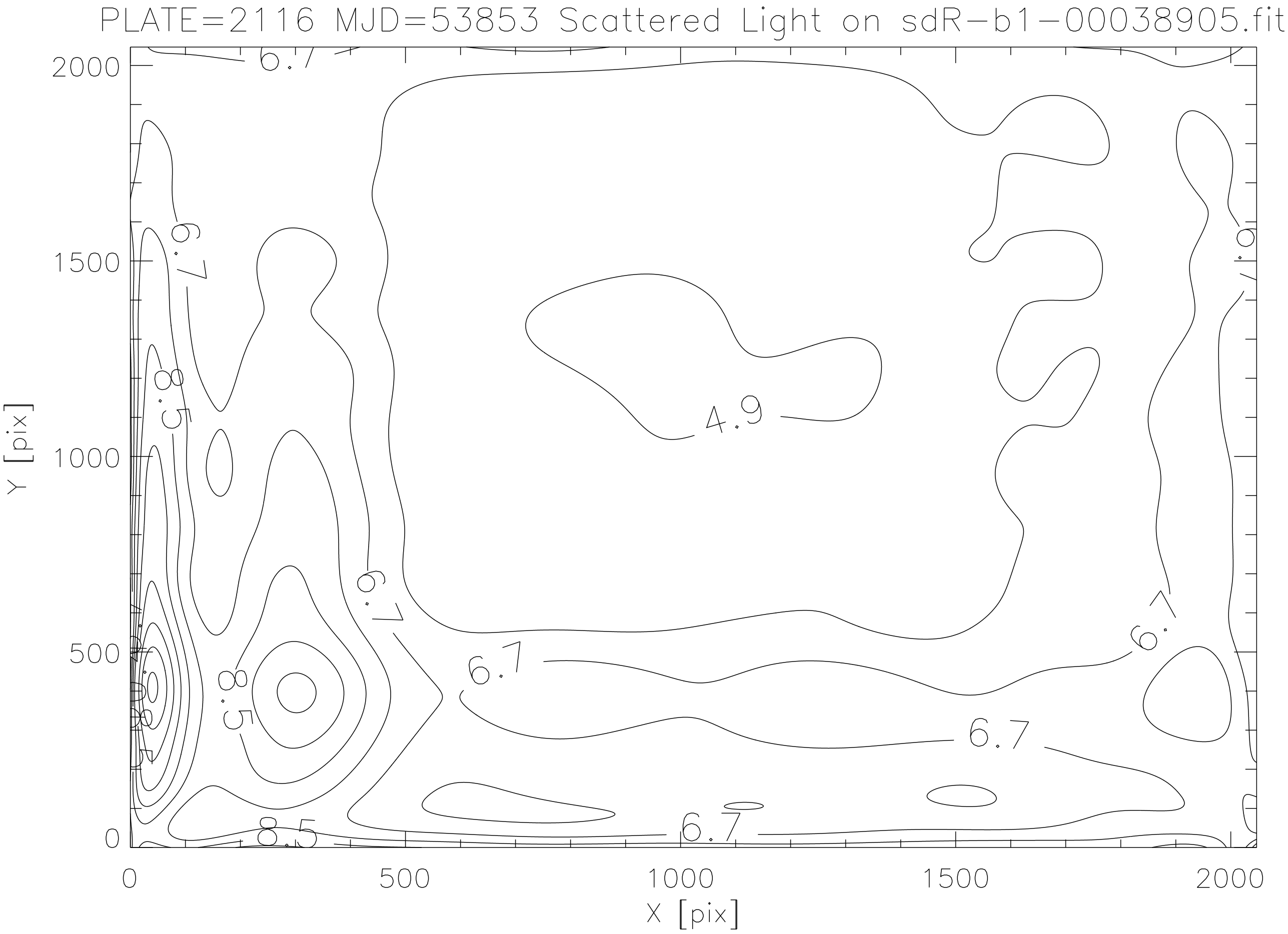
PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-b1-00038905.f

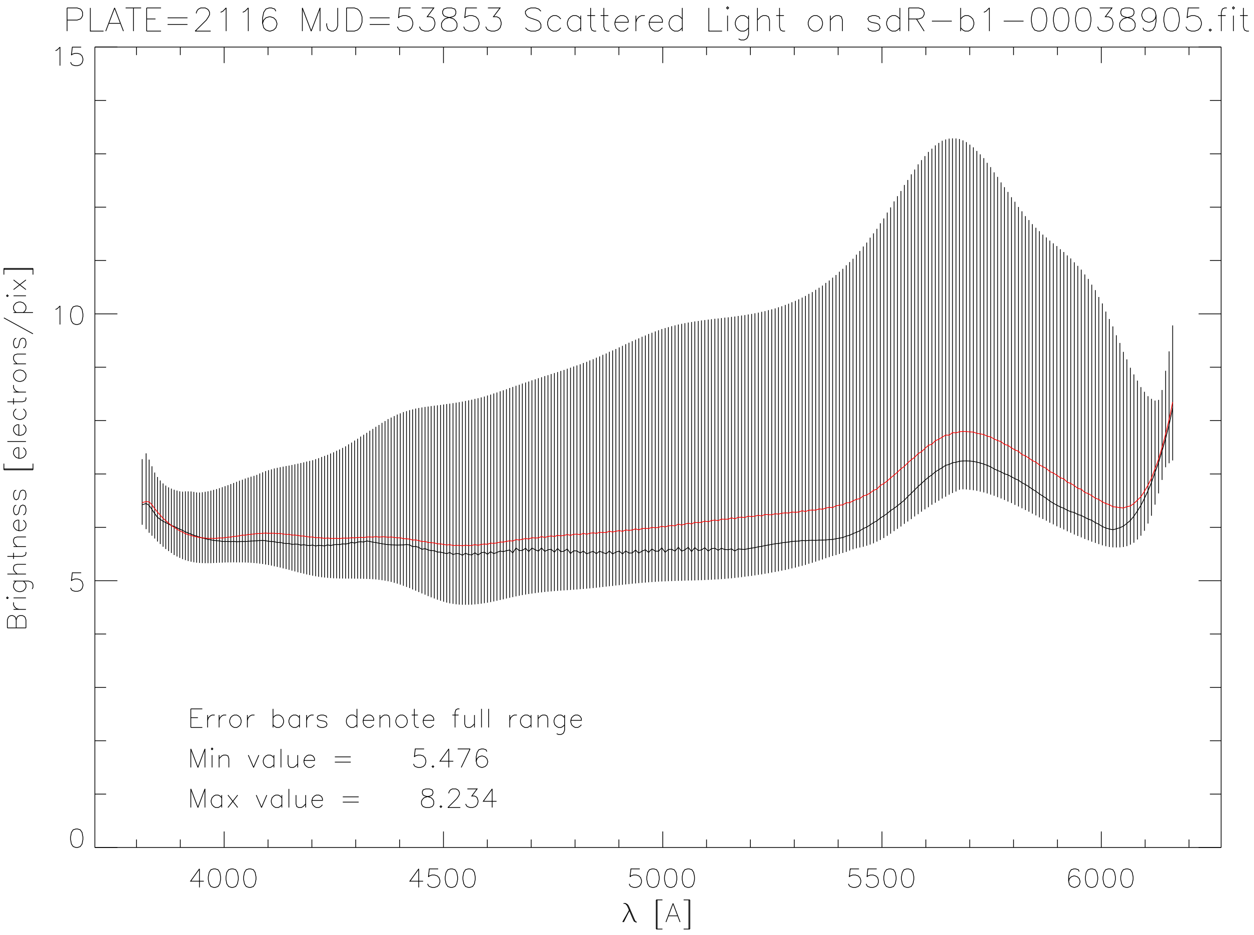


PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-b1-00038905.f



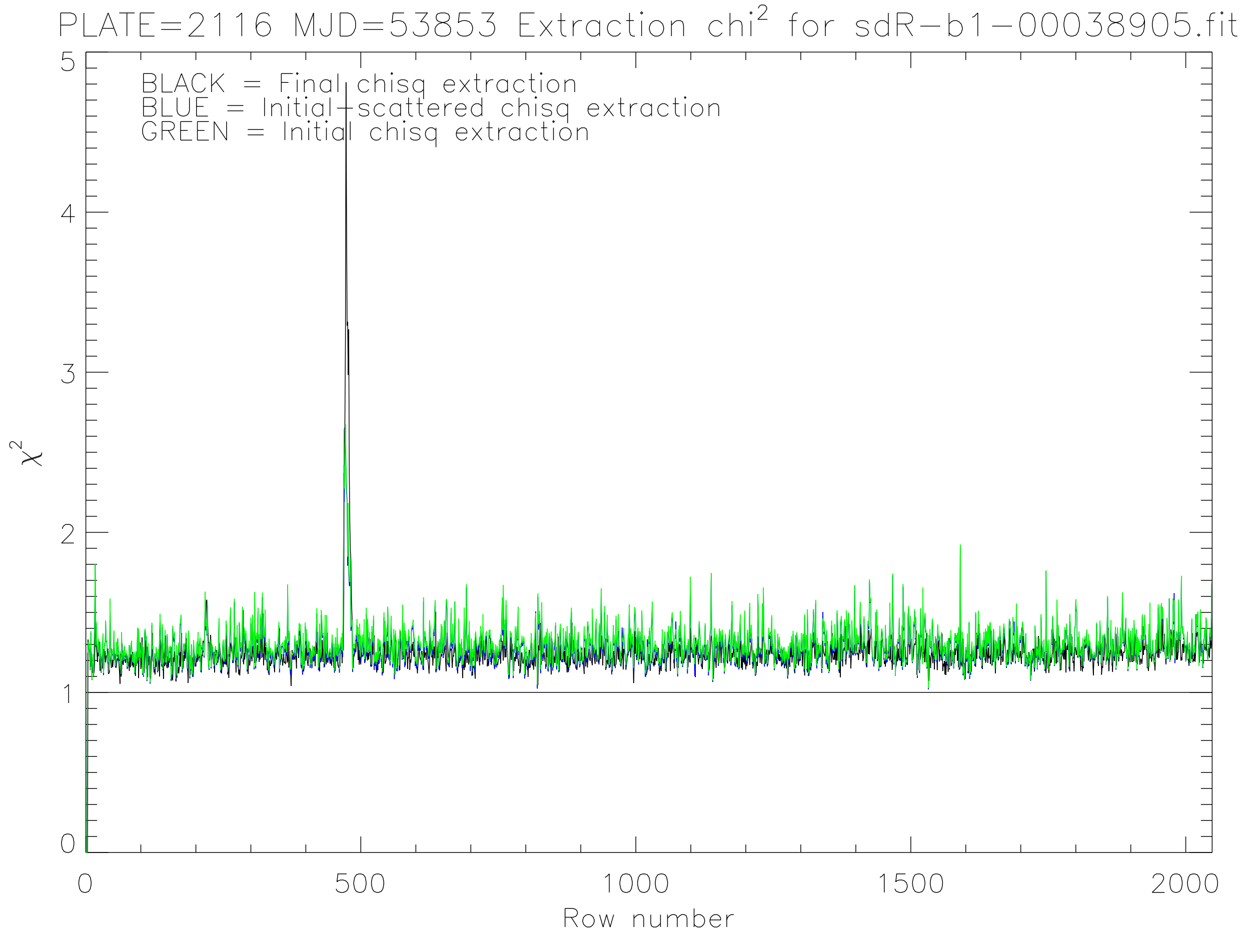
Sun Feb 17 10:22:35 2008

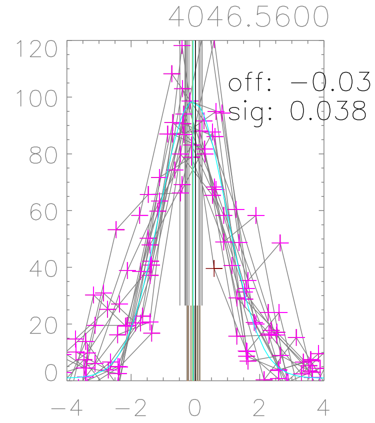
 PLATE=2116 MJD=53853 Scattered Light on sdR-b1-00038905.fit

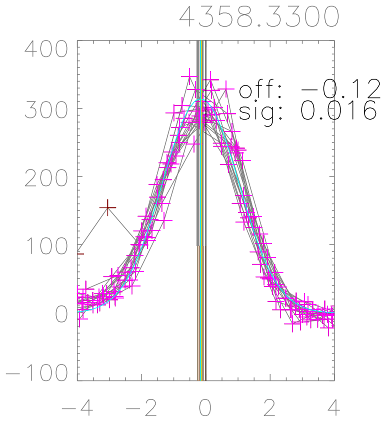


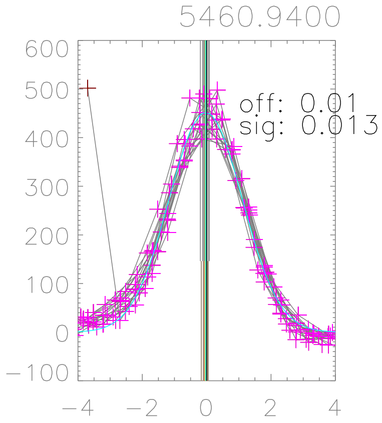
PLATE=2116 MJD=53853 Scattered Light on sdR-b1-00038905.fit

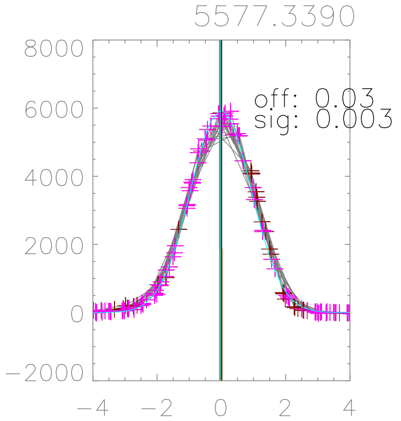
Sun Feb 17 10:25:58 2008

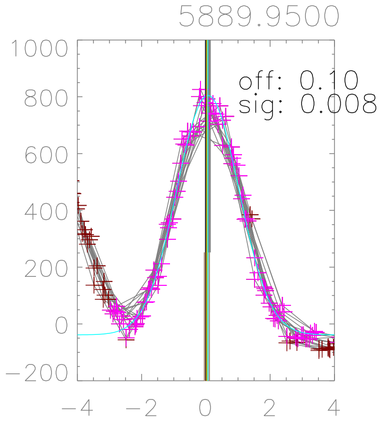

PLATE=2116 MJD=53853 Extraction chi^2 for sdR-b1-00038905.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

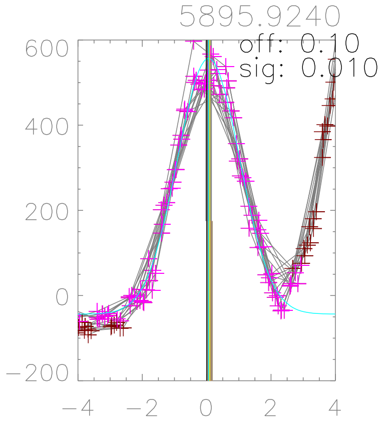

4046.5600
off: −0.03
sig: 0.038
120
100
80
60
40
20
0
−4
−2
0
2
4

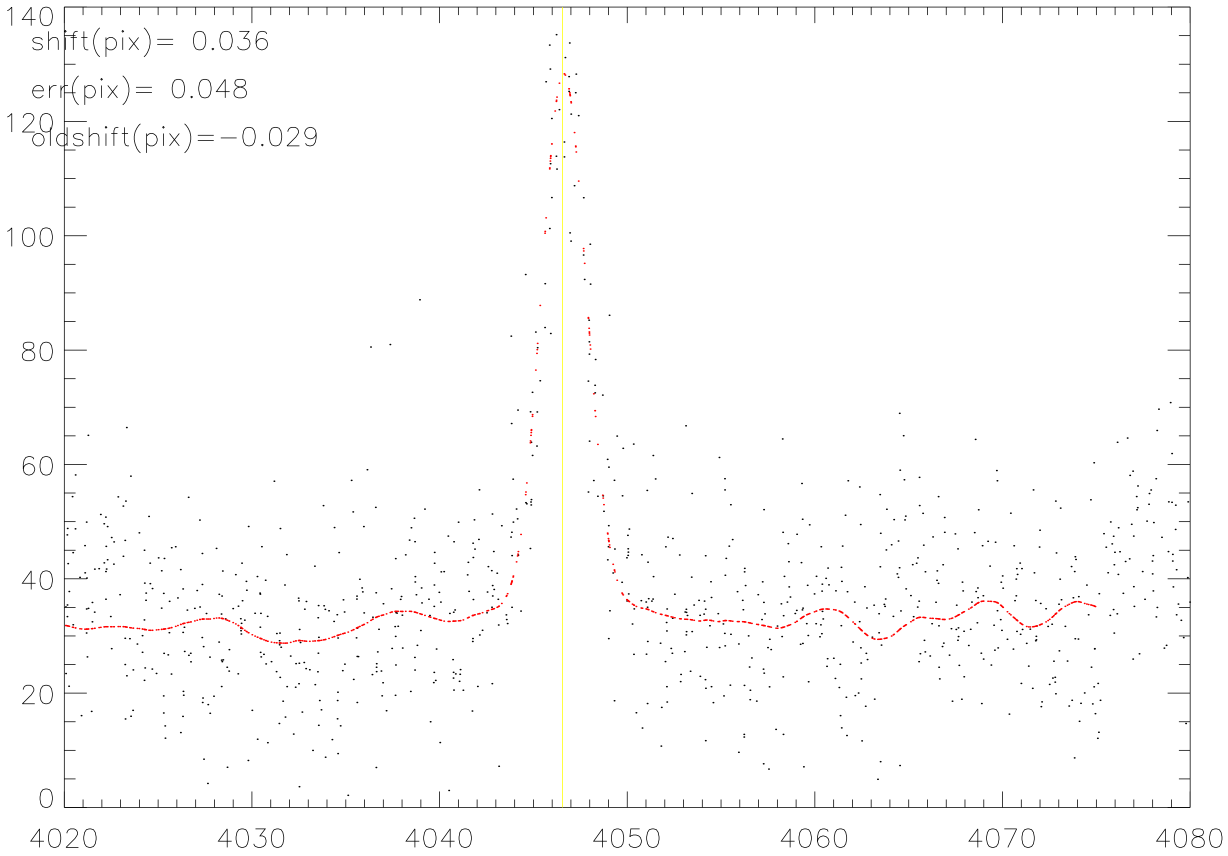

4358.3300
off: −0.12
sig: 0.016
400
300
200
100
0
−100
−4
−2
0
2
4

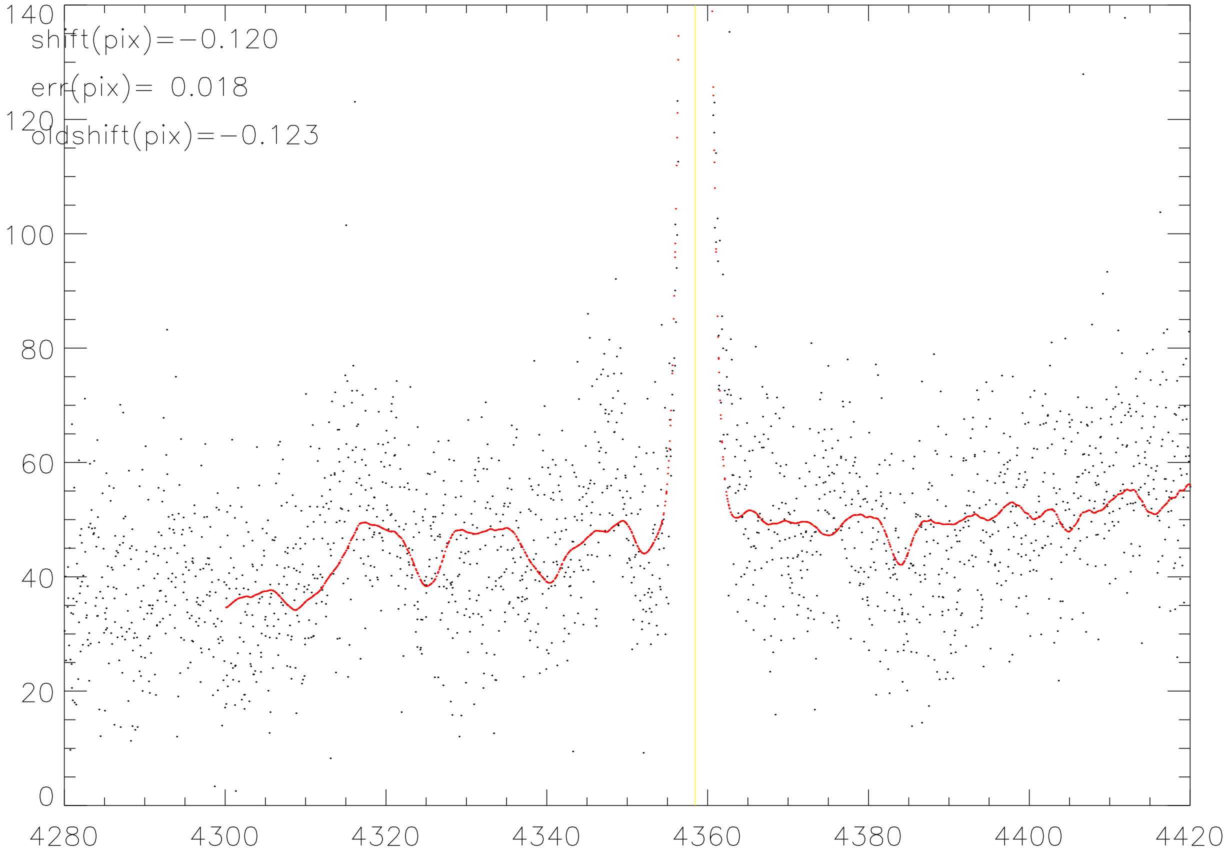

5460.9400
off: 0.01
sig: 0.013
600
500
400
300
200
100
0
−100
−4
−2
0
2
4

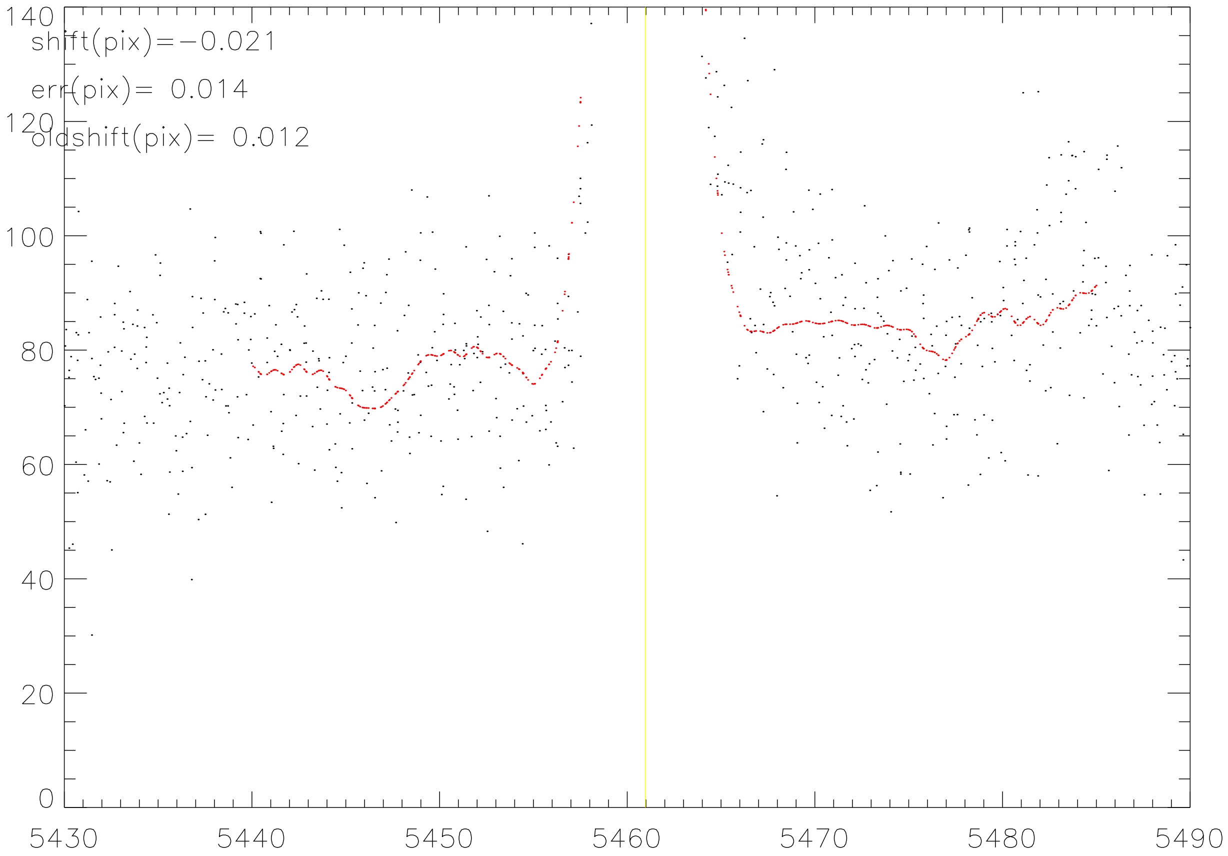

5577.3390
off: 0.03
sig: 0.003
8000
6000
4000
2000
0
−2000
−4
−2
0
2
4

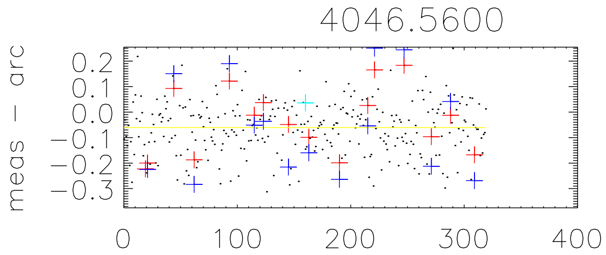

5889.9500
off: 0.10
sig: 0.008
1000
800
600
400
200
0
−200
−4
−2
0
2
4

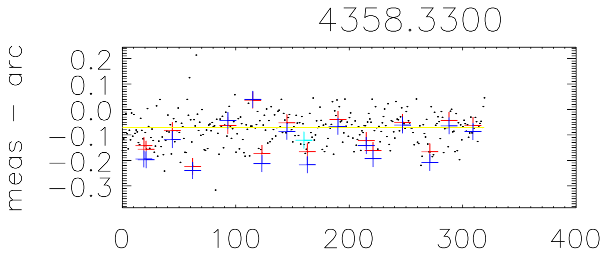

5895.9240
off: 0.10
sig: 0.010
600
400
200
0
−200
−4
−2
0
2
4

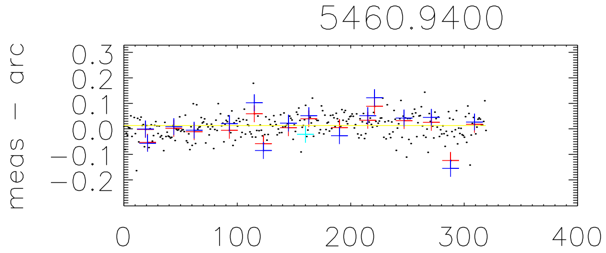

shift(pix)= 0.036
err(pix)= 0.048
oldshift(pix)=−0.029
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

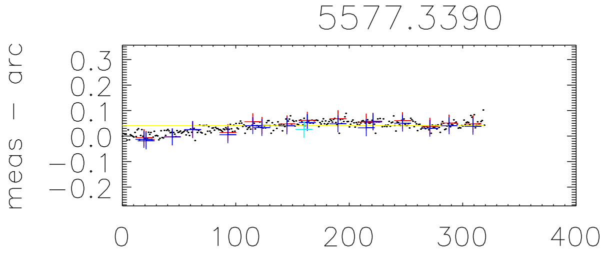

shift(pix)=−0.120
err(pix)= 0.018
oldshift(pix)=−0.123
140
120
100
80
60
40
20
0
4280
4300
4320
4340
4360
4380
4400
4420

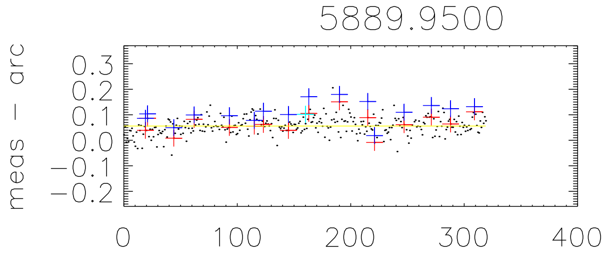

shift(pix)=−0.021
err(pix)= 0.014
oldshift(pix)= 0.012
0
20
40
60
80
100
120
140
5430
5440
5450
5460
5470
5480
5490

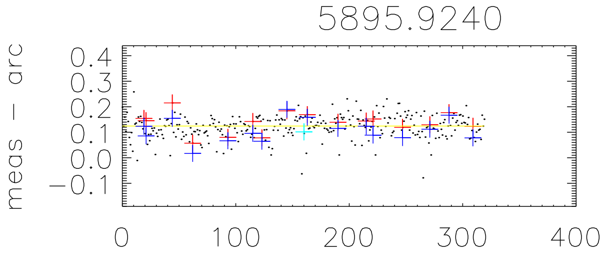

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

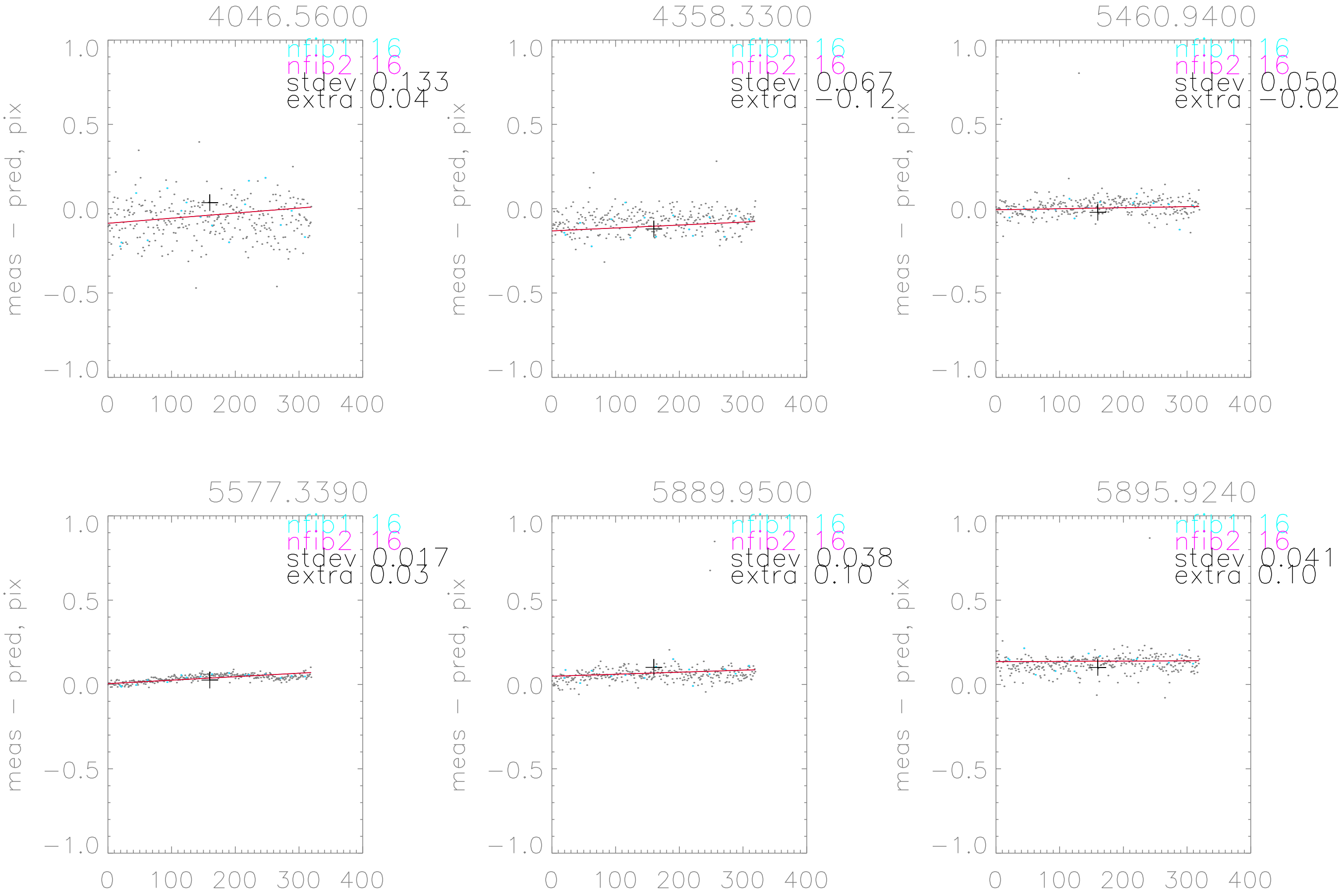

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

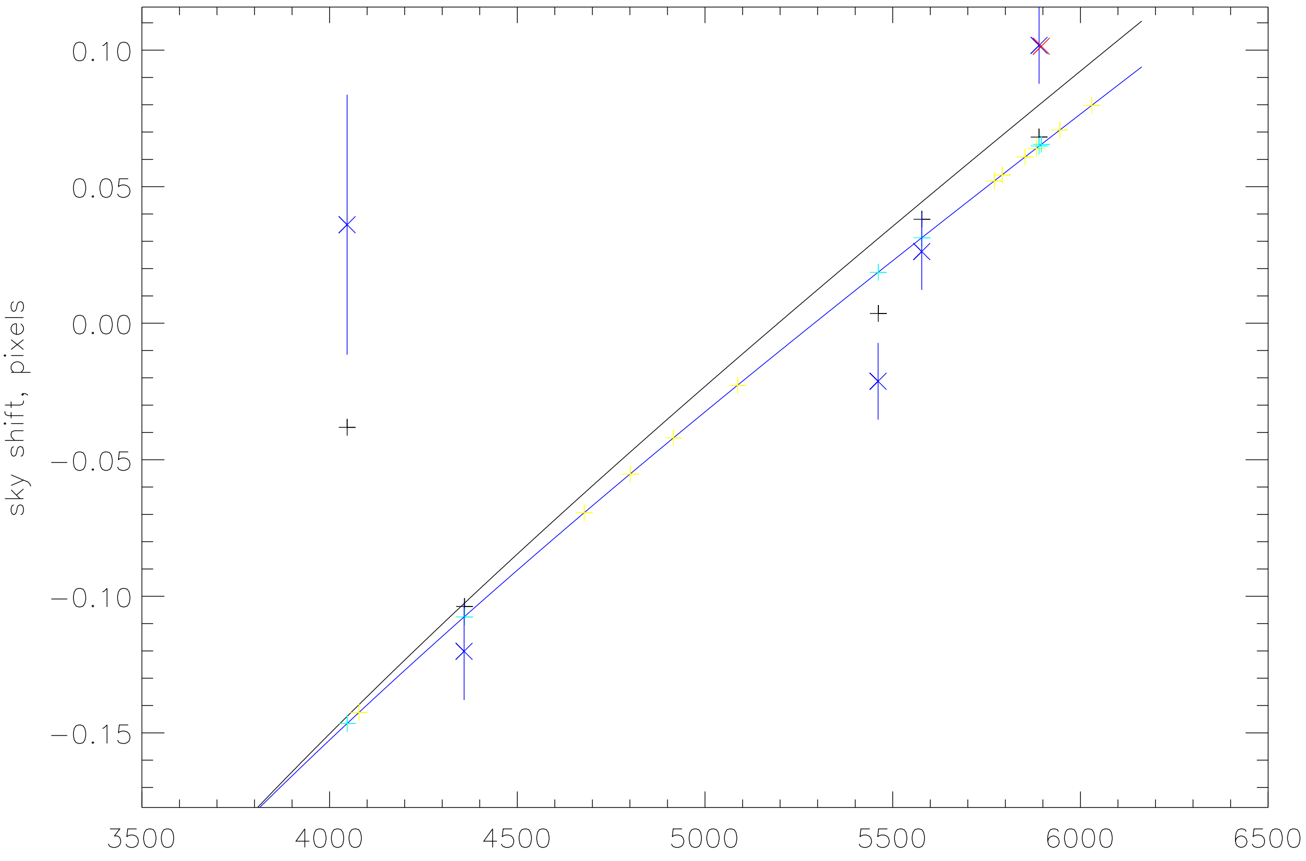

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

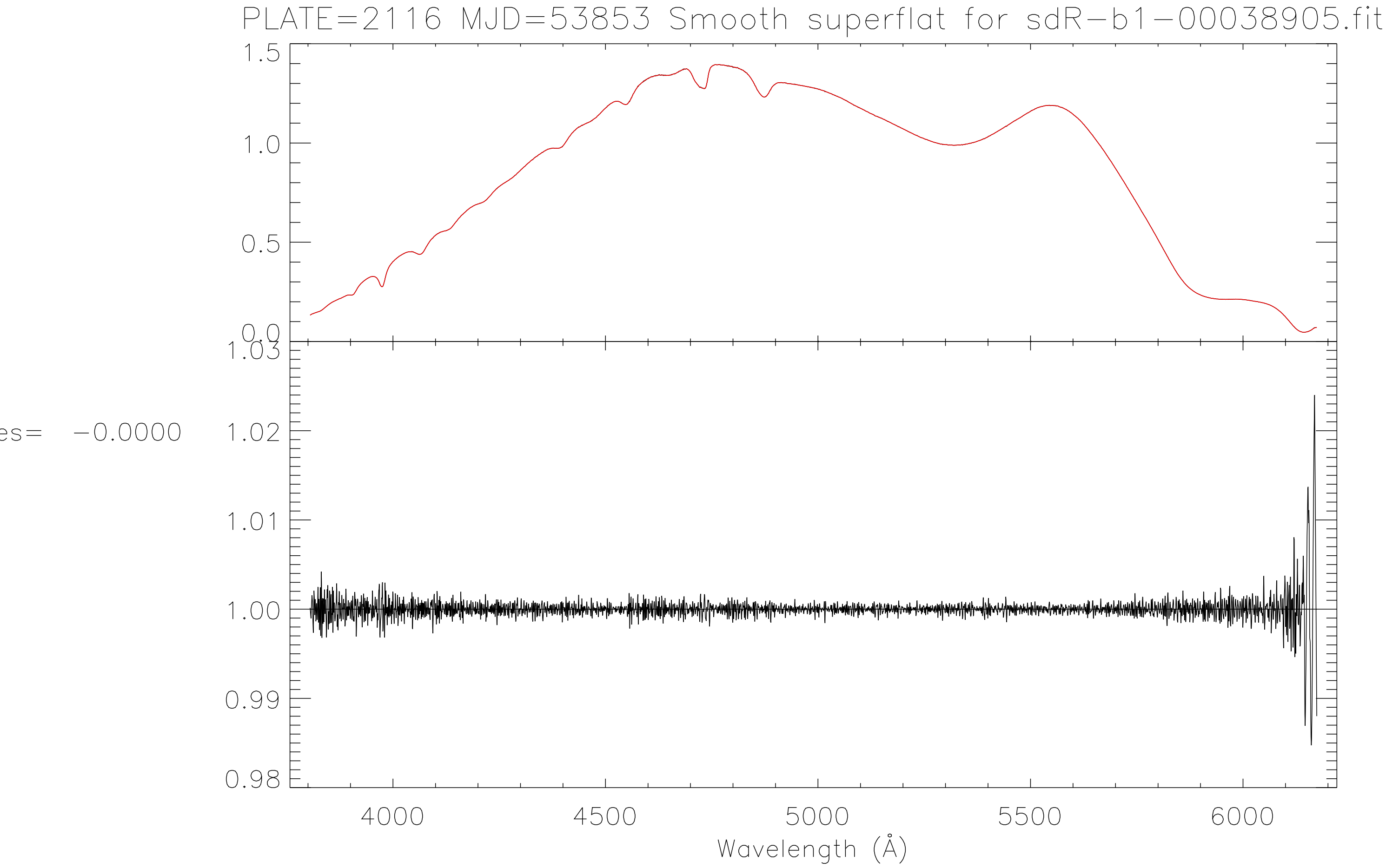

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

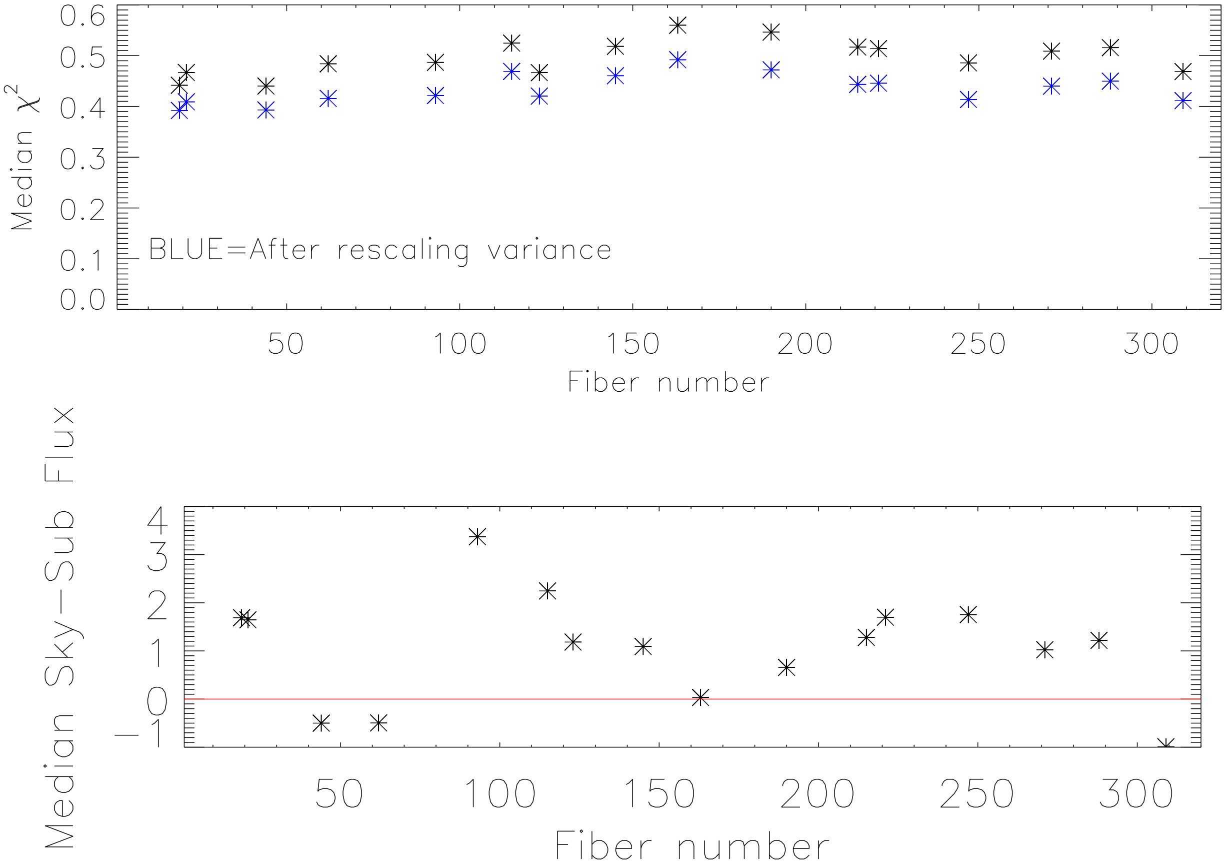

5895.9240
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

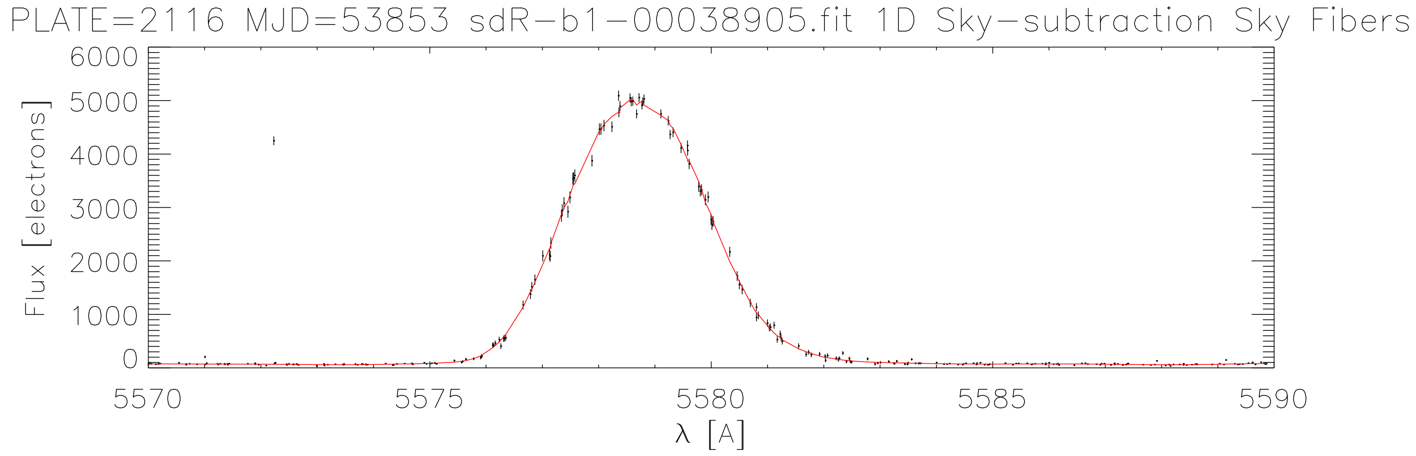

4046.5600
nfib1 16
nfib2 16
stdev 0.133
extra 0.04
4358.3300
nfib1 16
nfib2 16
stdev 0.067
extra −0.12
5460.9400
nfib1 16
nfib2 16
stdev 0.050
extra −0.02
5577.3390
nfib1 16
nfib2 16
stdev 0.017
extra 0.03
5889.9500
nfib1 16
nfib2 16
stdev 0.038
extra 0.10
5895.9240
nfib1 16
nfib2 16
stdev 0.041
extra 0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


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

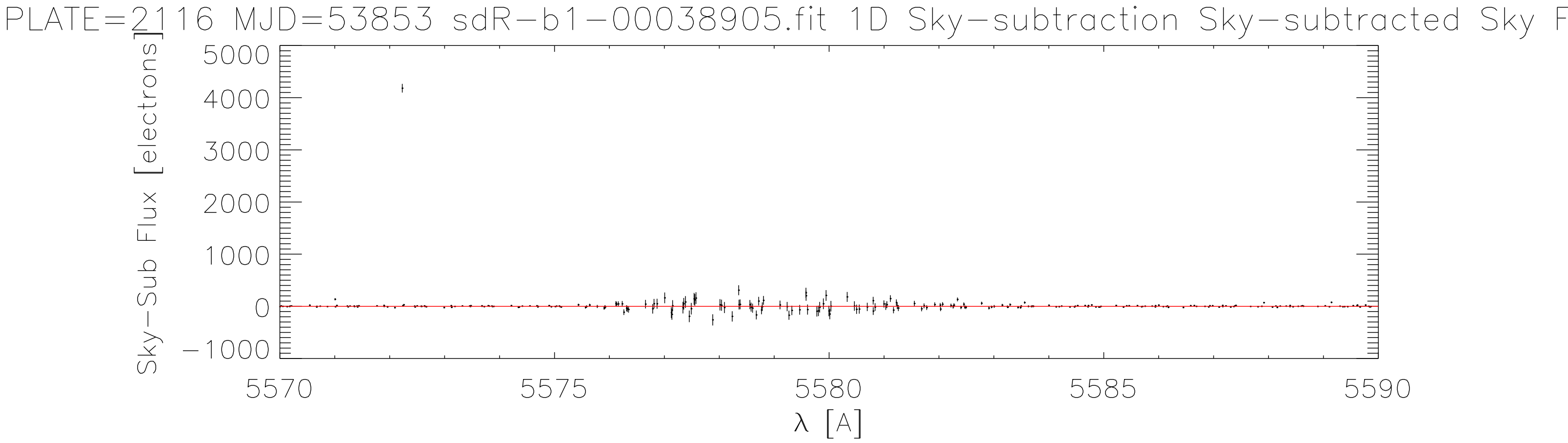

PLATE=2116 MJD=53853 Smooth superflat for sdR-b1-00038905.fit
1.5
1.0
0.5
0.0
1.03
1.02
1.01
1.00
0.99
0.98
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

PLATE=2116 MJD=53853 sdR-b1-00038905.fit 1D Sky-subtraction Sky Fiber





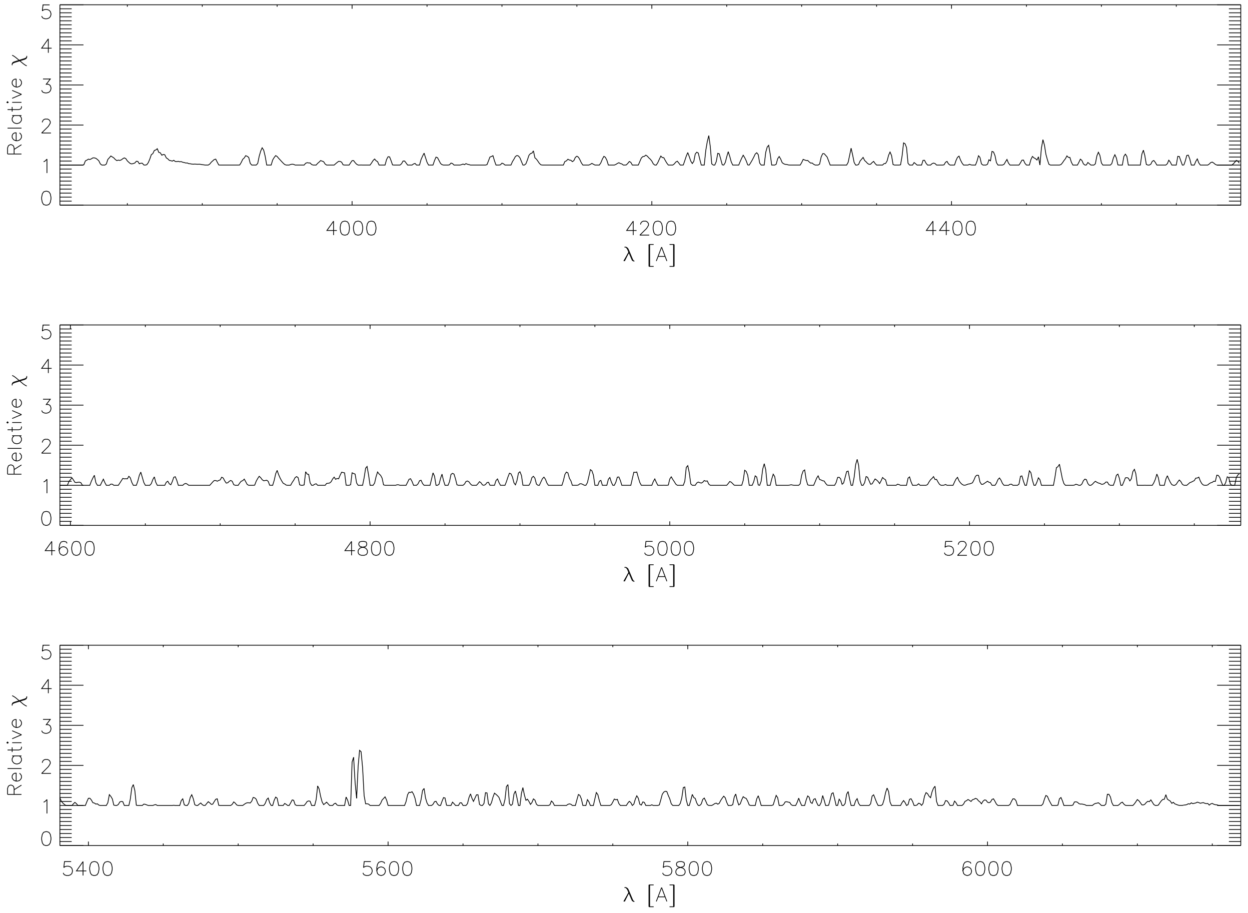
PLATE=2116 MJD=53853 sdR−b1−00038905.fit 1D Sky−subtraction Sky Fibers

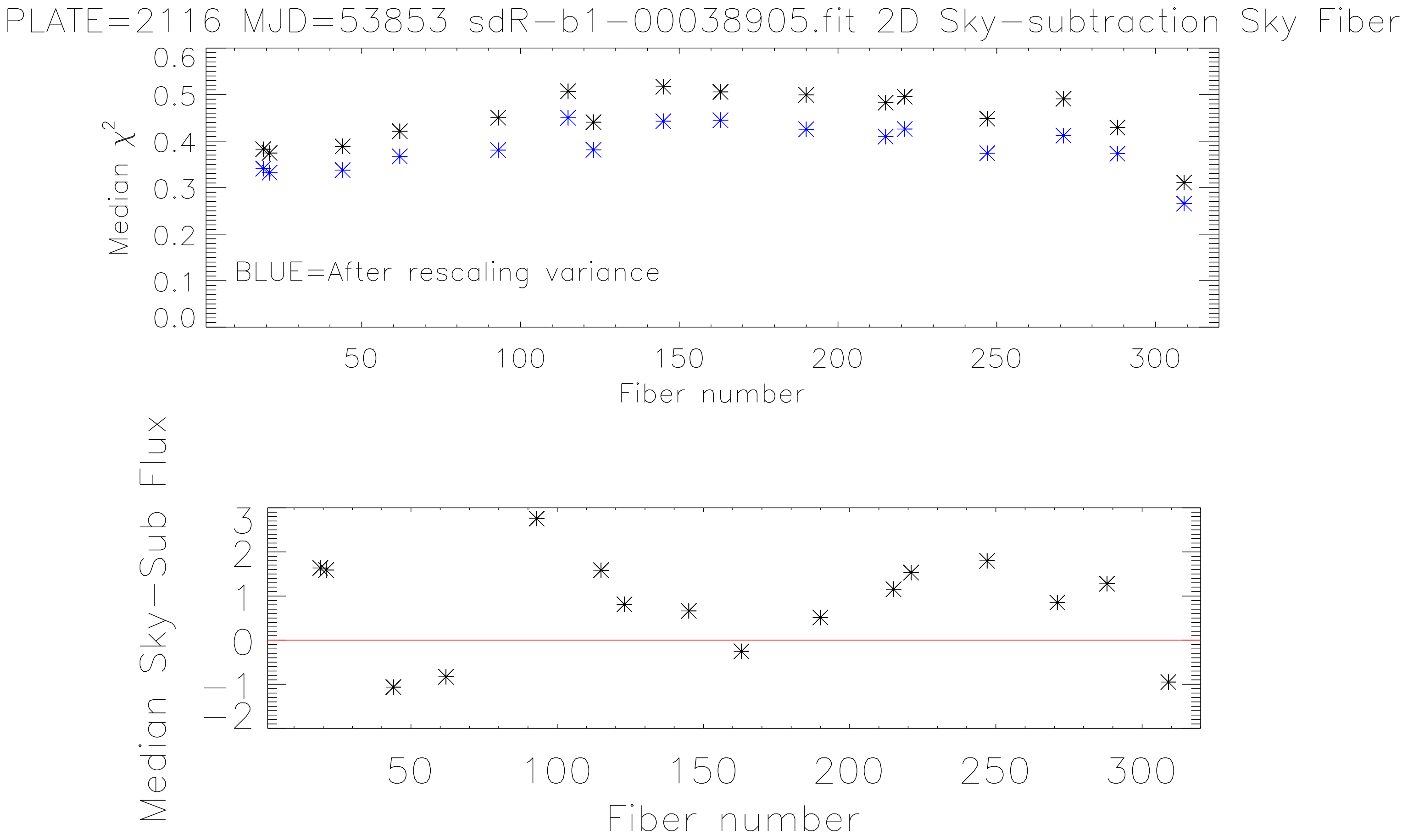


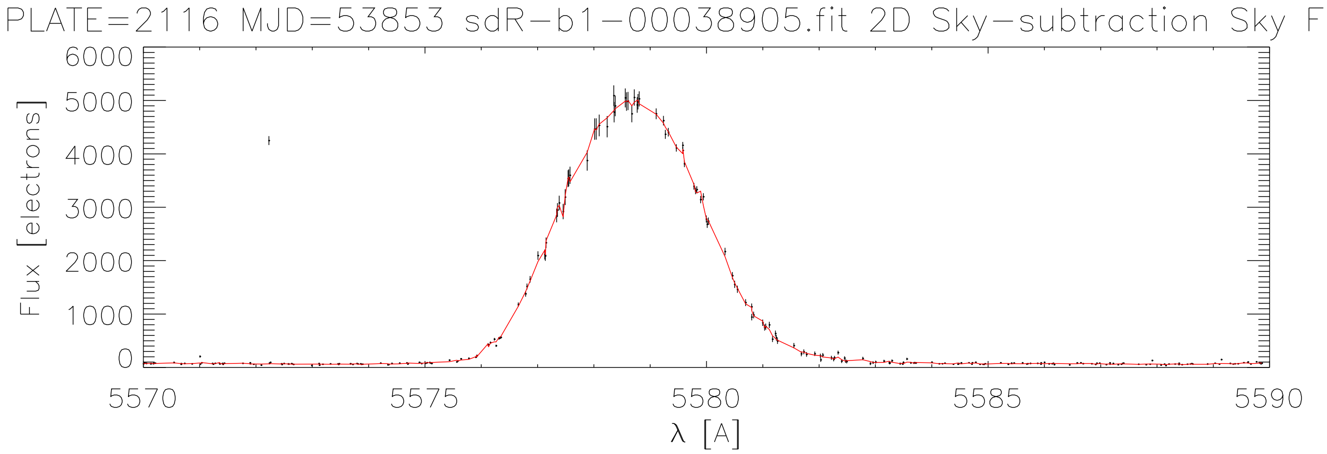
PLATE=2116 MJD=53853 sdR−b1−00038905.fit 1D Sky−subtraction Sky−subtracted Sky F

Number of sky fibers = 16

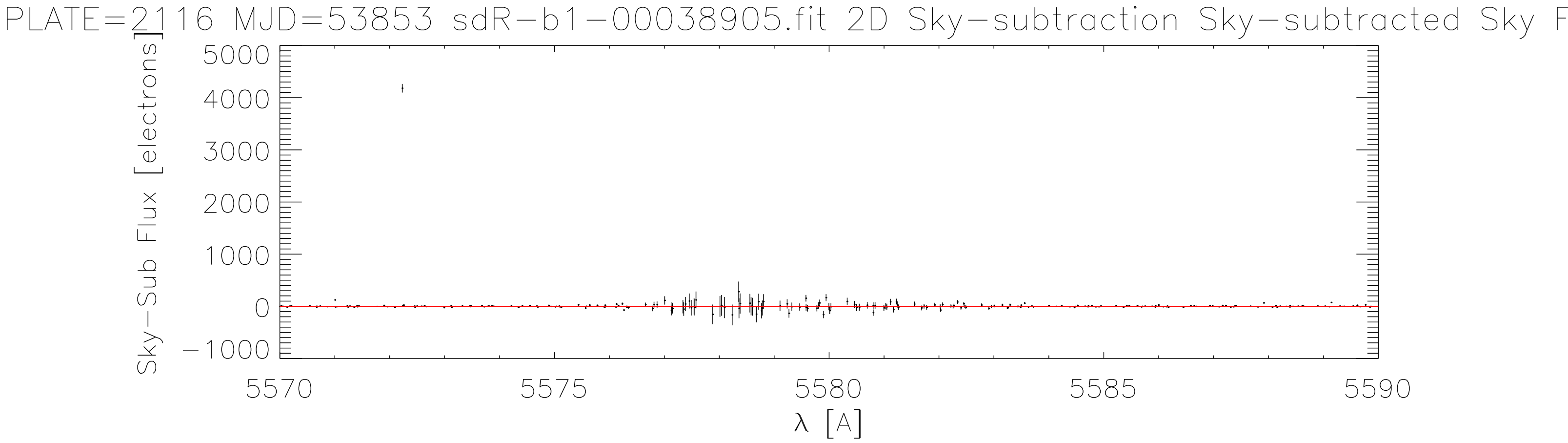
PLATE=2116 MJD=53853 sdR-b1-00038905.fit 1D Sky-subtraction Rescaled Errors




PLATE=2116 MJD=53853 sdR-b1-00038905.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−2
−1
0
1
2
3
50
100
150
200
250
300
Fiber number



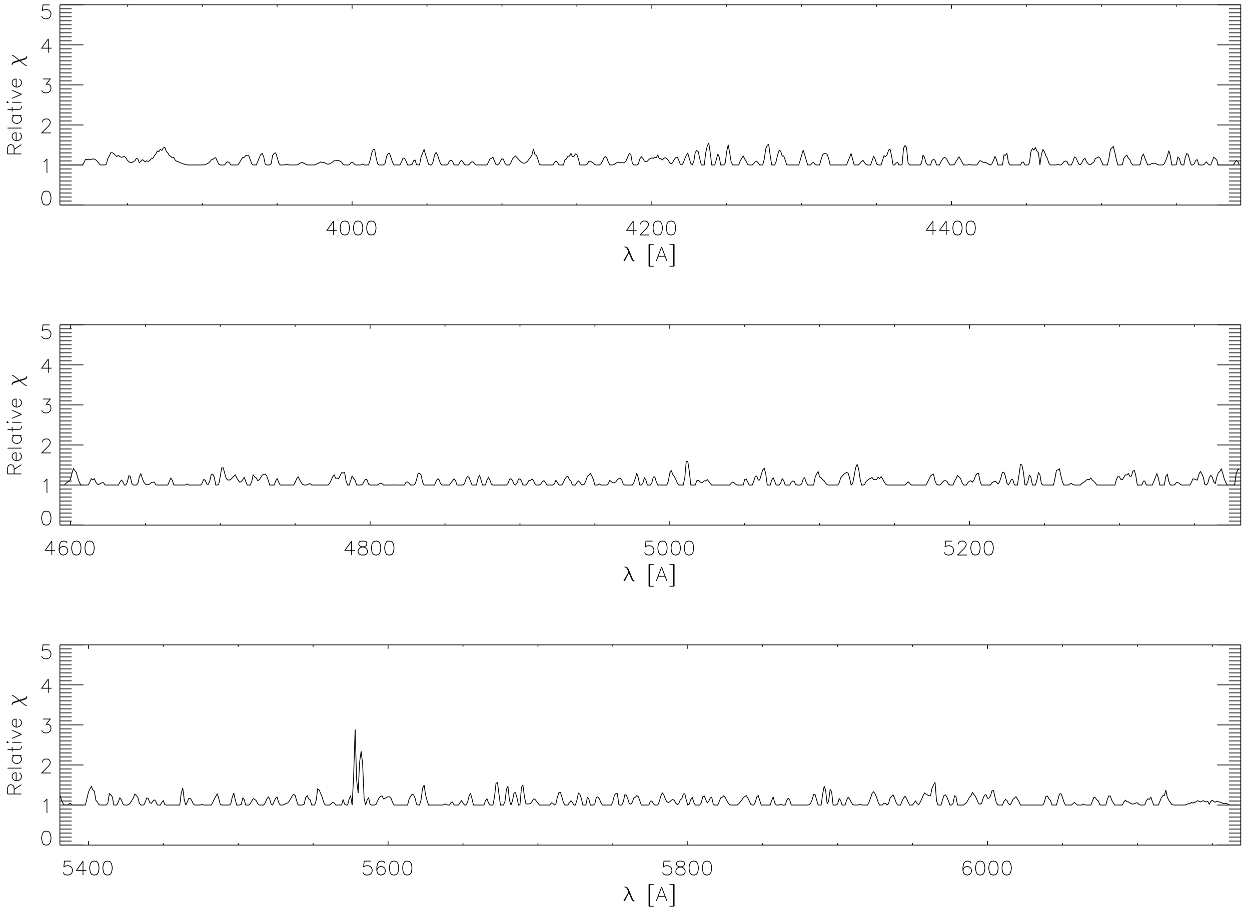
PLATE=2116 MJD=53853 sdR-b1-00038905.fit 2D Sky-subtraction Sky Fibers

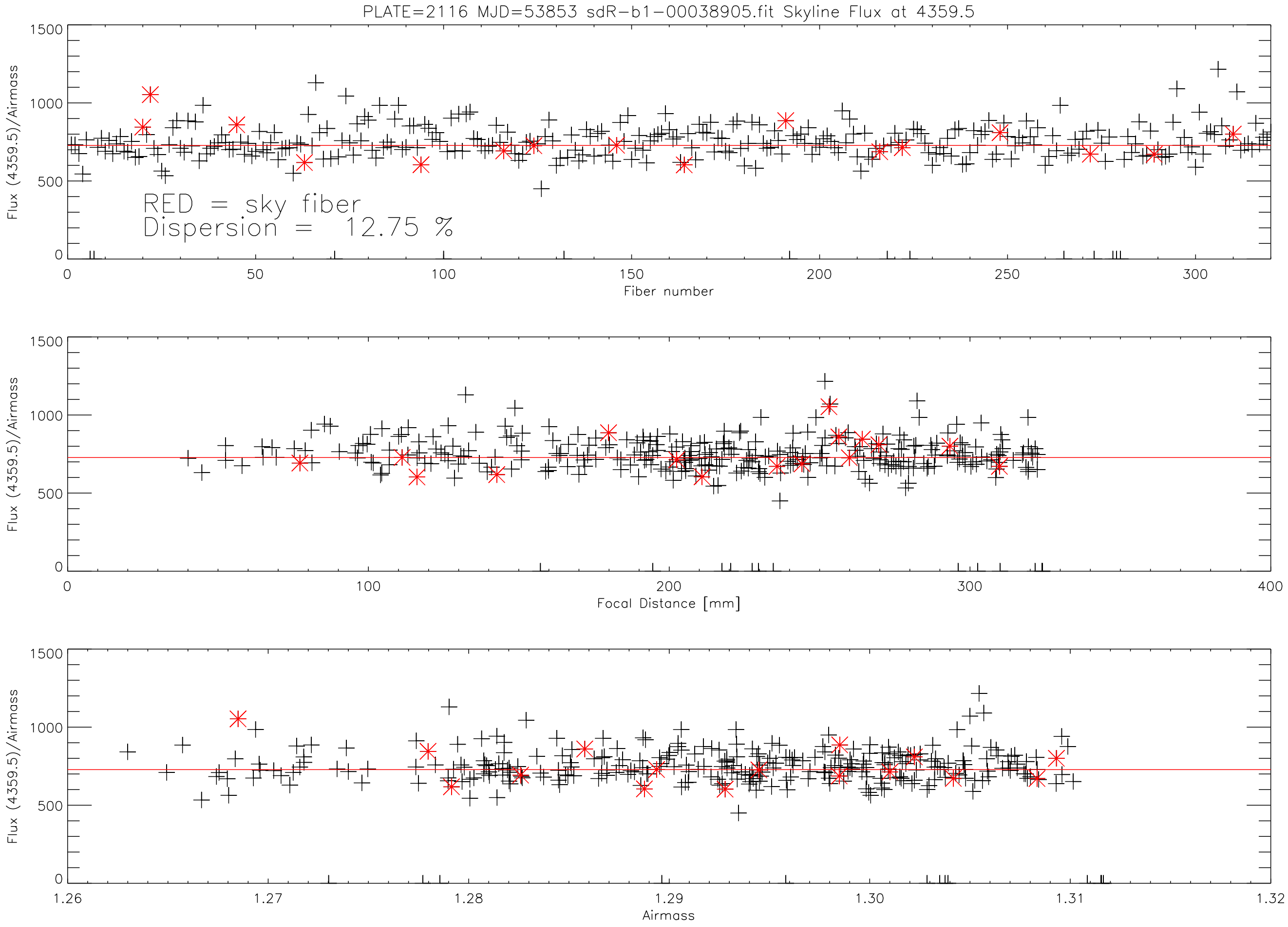


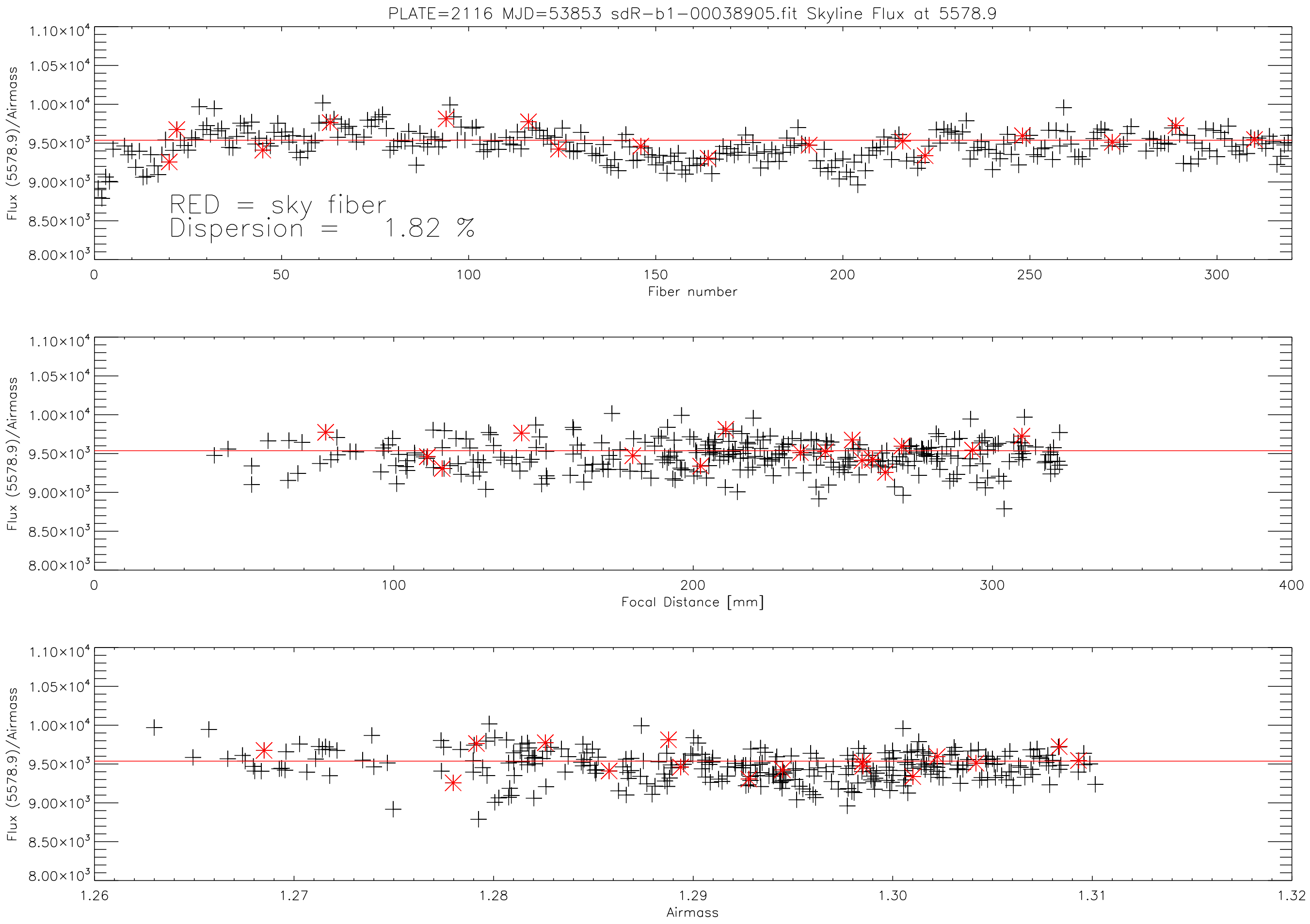
PLATE=2116 MJD=53853 sdR-b1-00038905.fit 2D Sky-subtraction Sky-subtracted Sky F

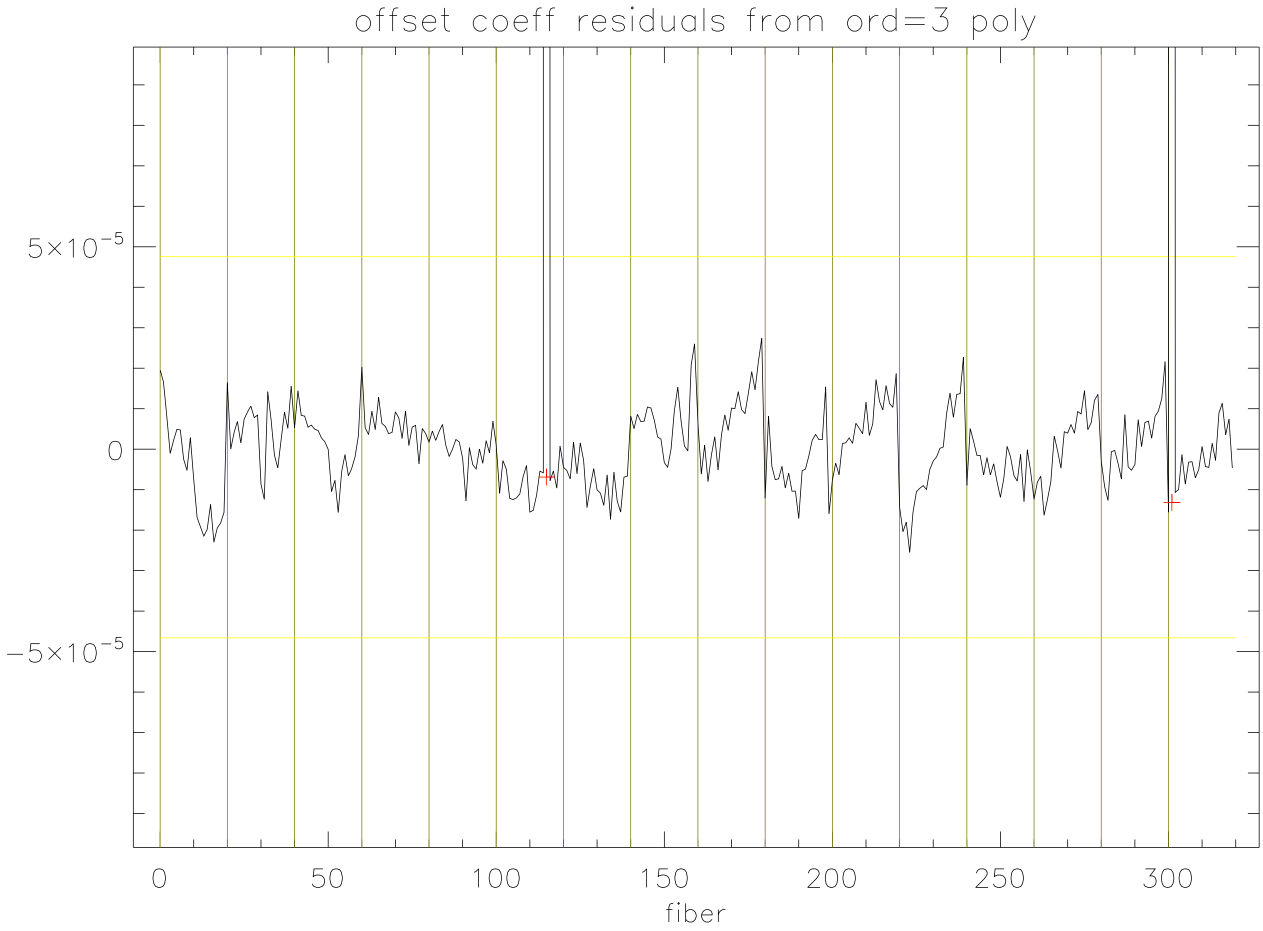
Number of sky fibers = 16

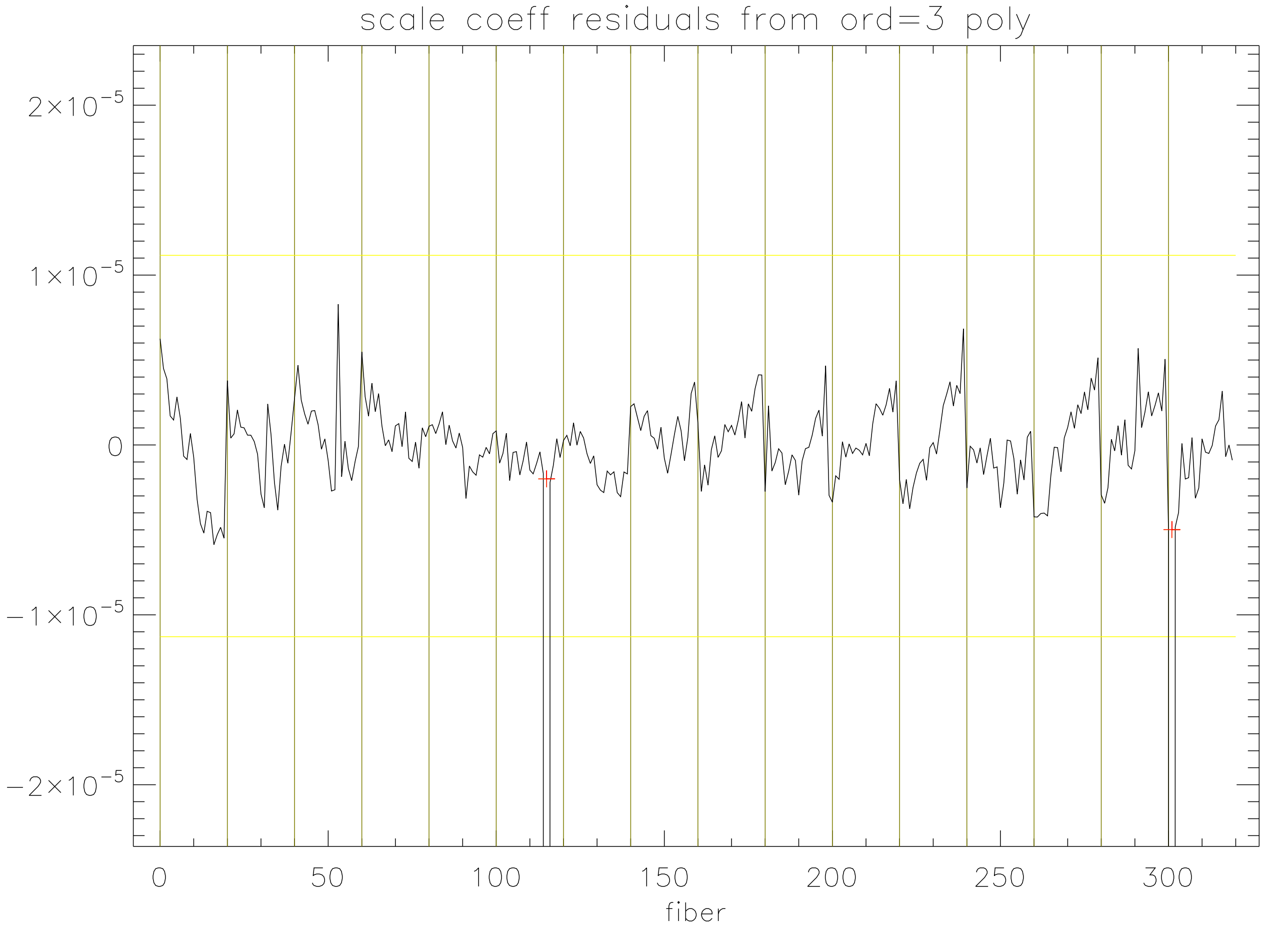
PLATE=2116 MJD=53853 sdR-b1-00038905.fit 2D Sky-subtraction Rescaled Errors

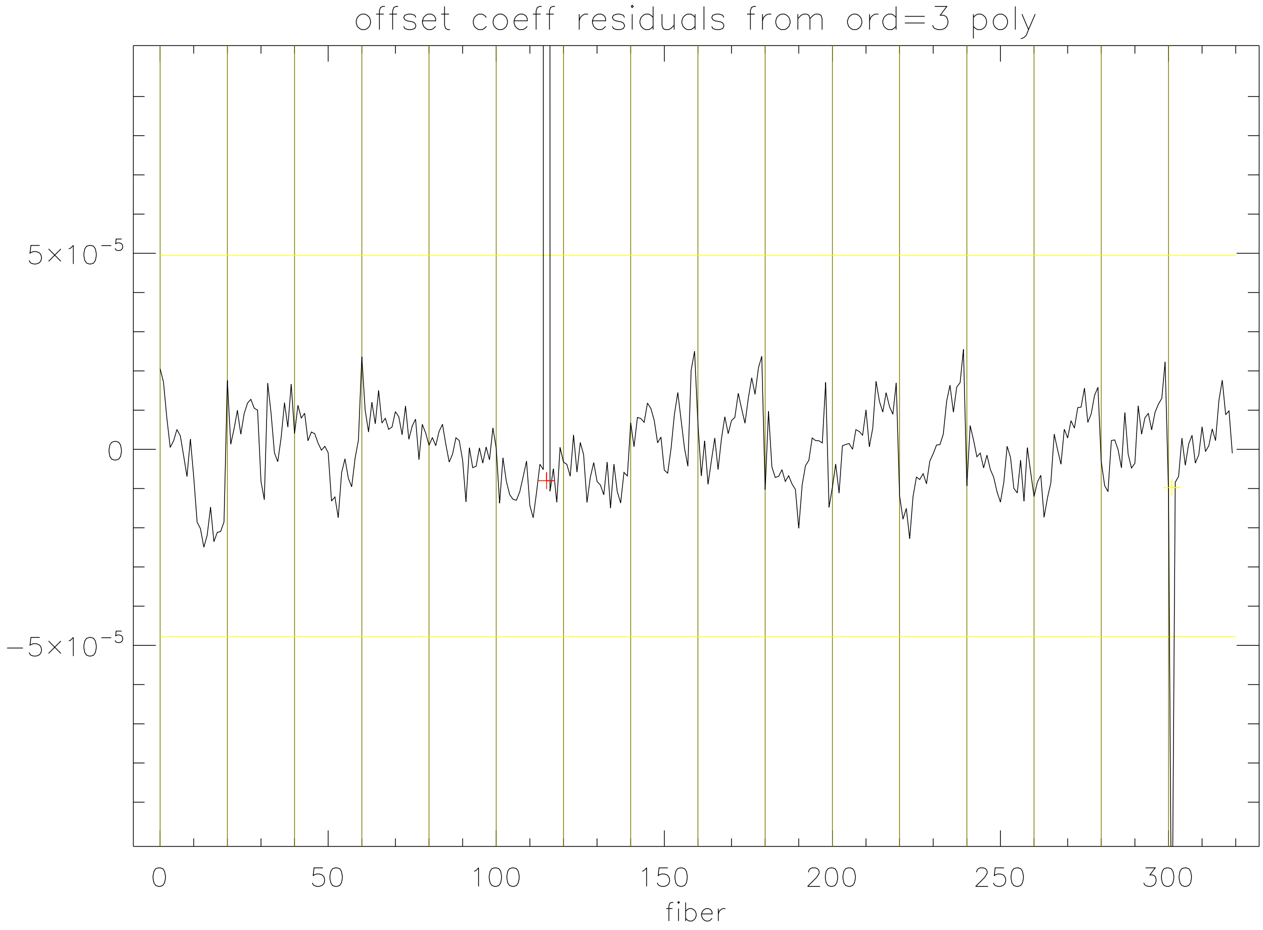


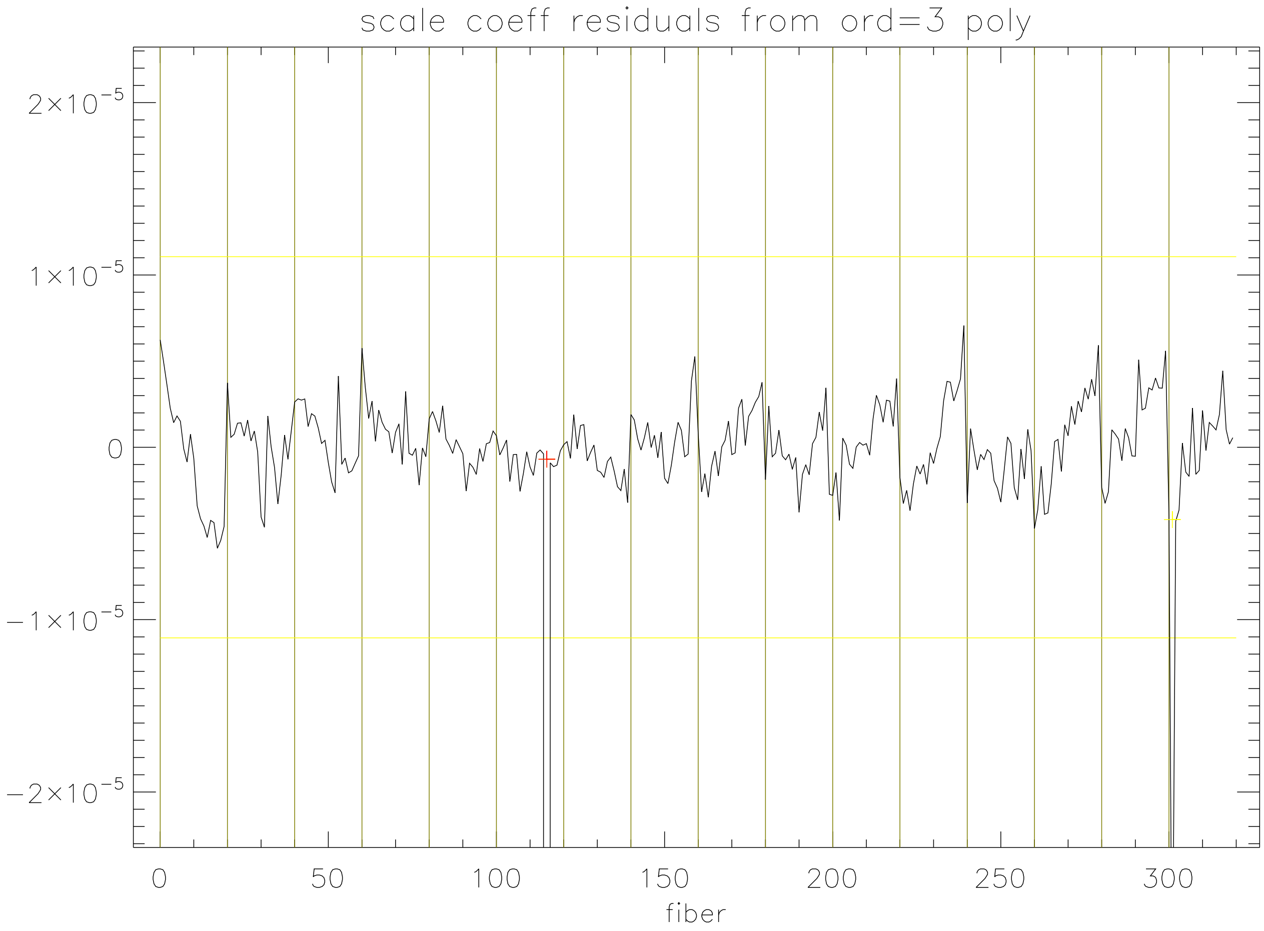

PLATE=2116 MJD=53853 sdR-b1-00038905.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
0
500
1000
1500
RED = sky fiber
Dispersion = 12.75 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
0
500
1000
1500
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
0
500
1000
1500
1.26
1.27
1.28
1.29
1.30
1.31
1.32
Airmass

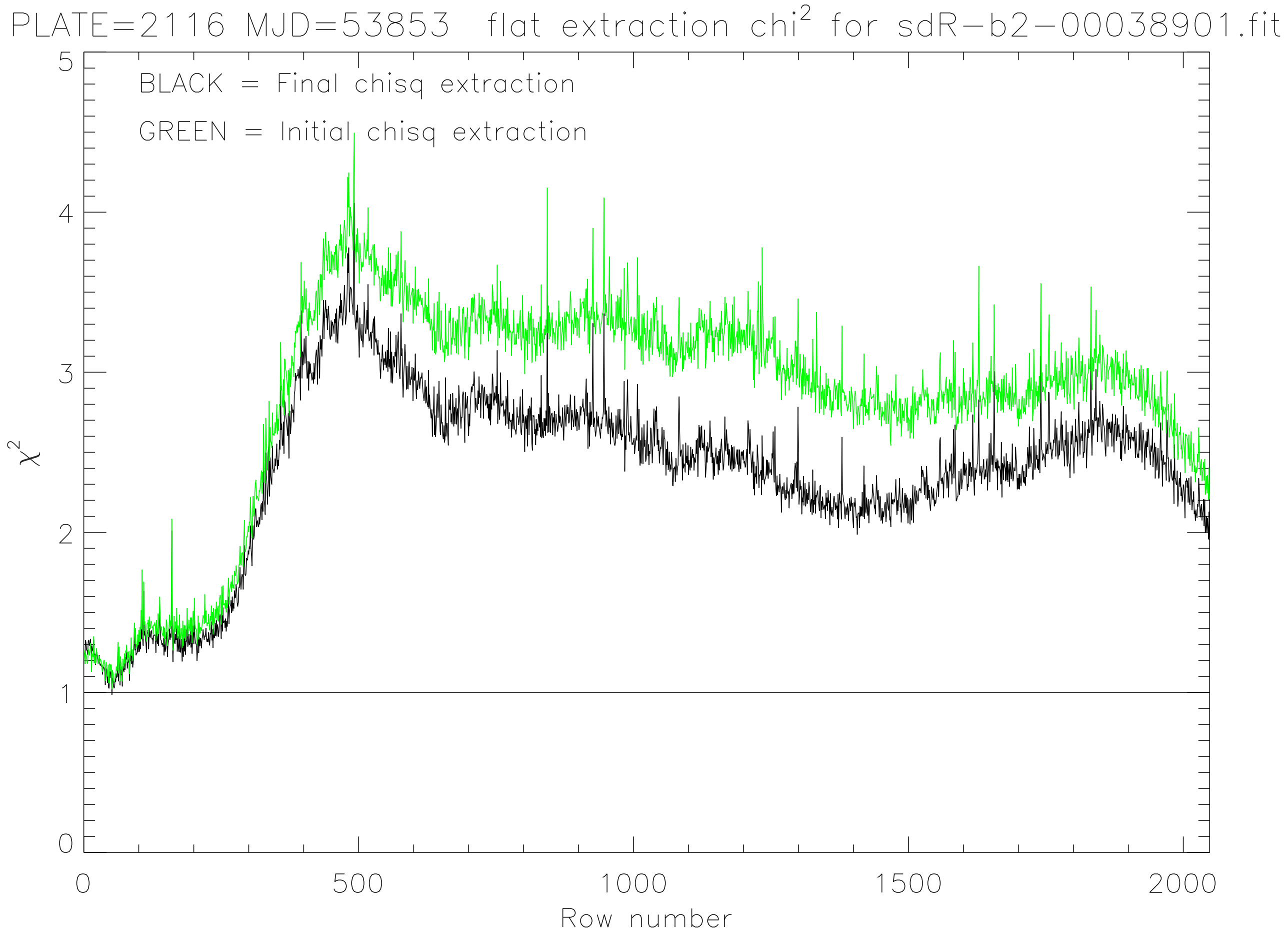

PLATE=2116 MJD=53853 sdR-b1-00038905.fit Skyline Flux at 5578.9
RED = sky fiber
Dispersion = 1.82 %
Flux (5578.9)/Airmass
1.10×10⁴
1.05×10⁴
1.00×10⁴
9.50×10³
9.00×10³
8.50×10³
8.00×10³
0
50
100
150
200
250
300
Fiber number
0
100
200
300
400
Focal Distance [mm]
1.26
1.27
1.28
1.29
1.30
1.31
1.32
Airmass

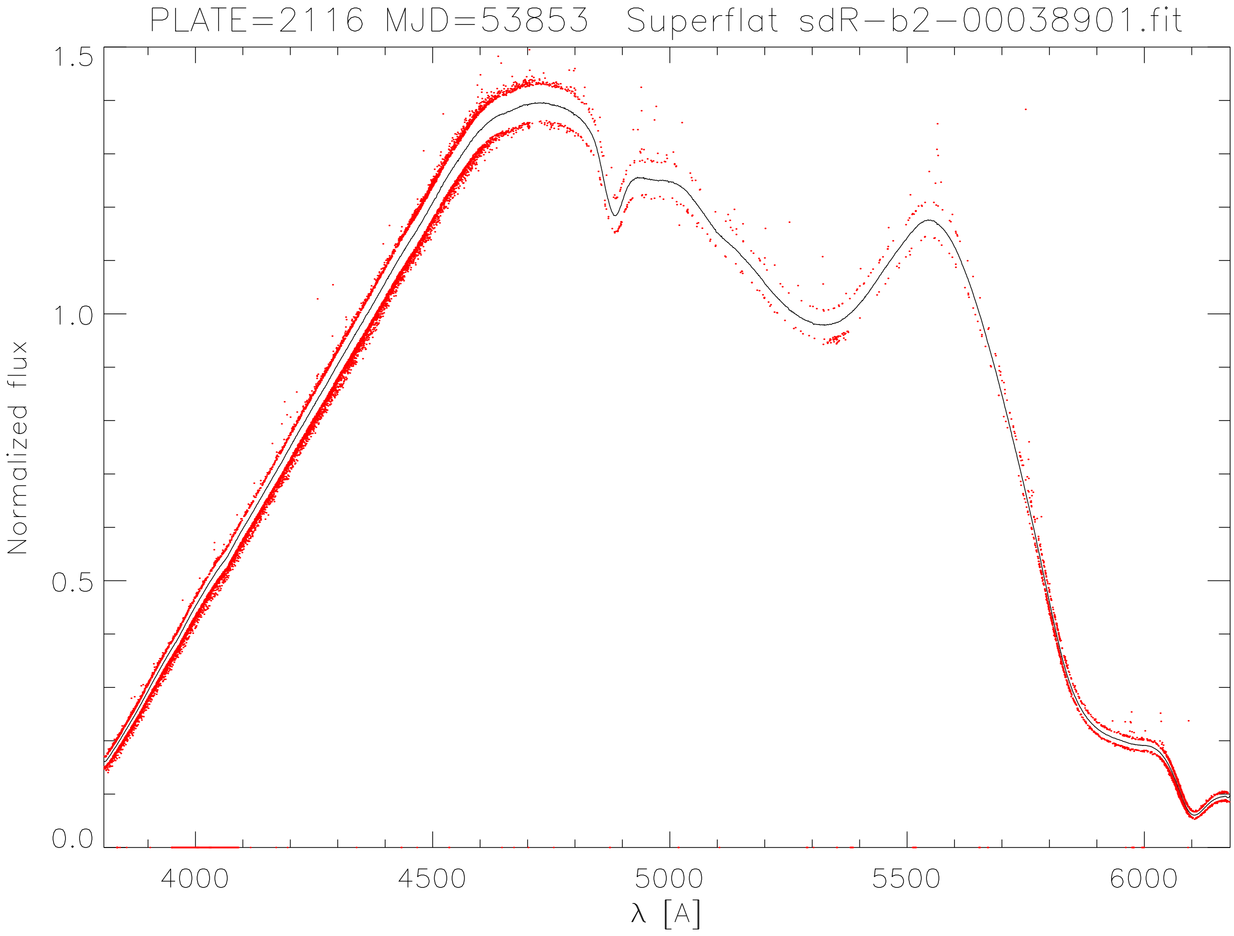

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
0
50
100
150
200
250
300
fiber

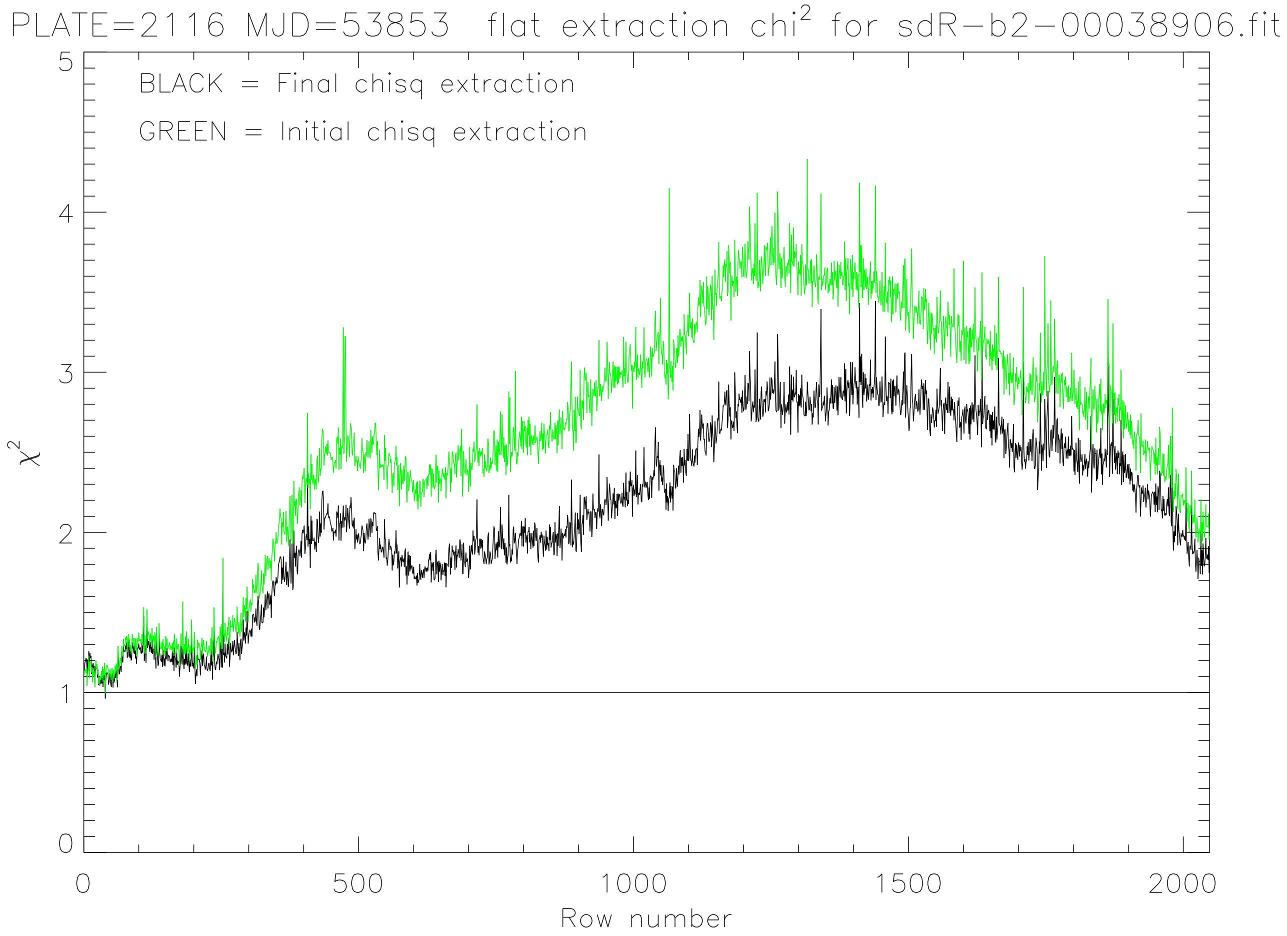

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber


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

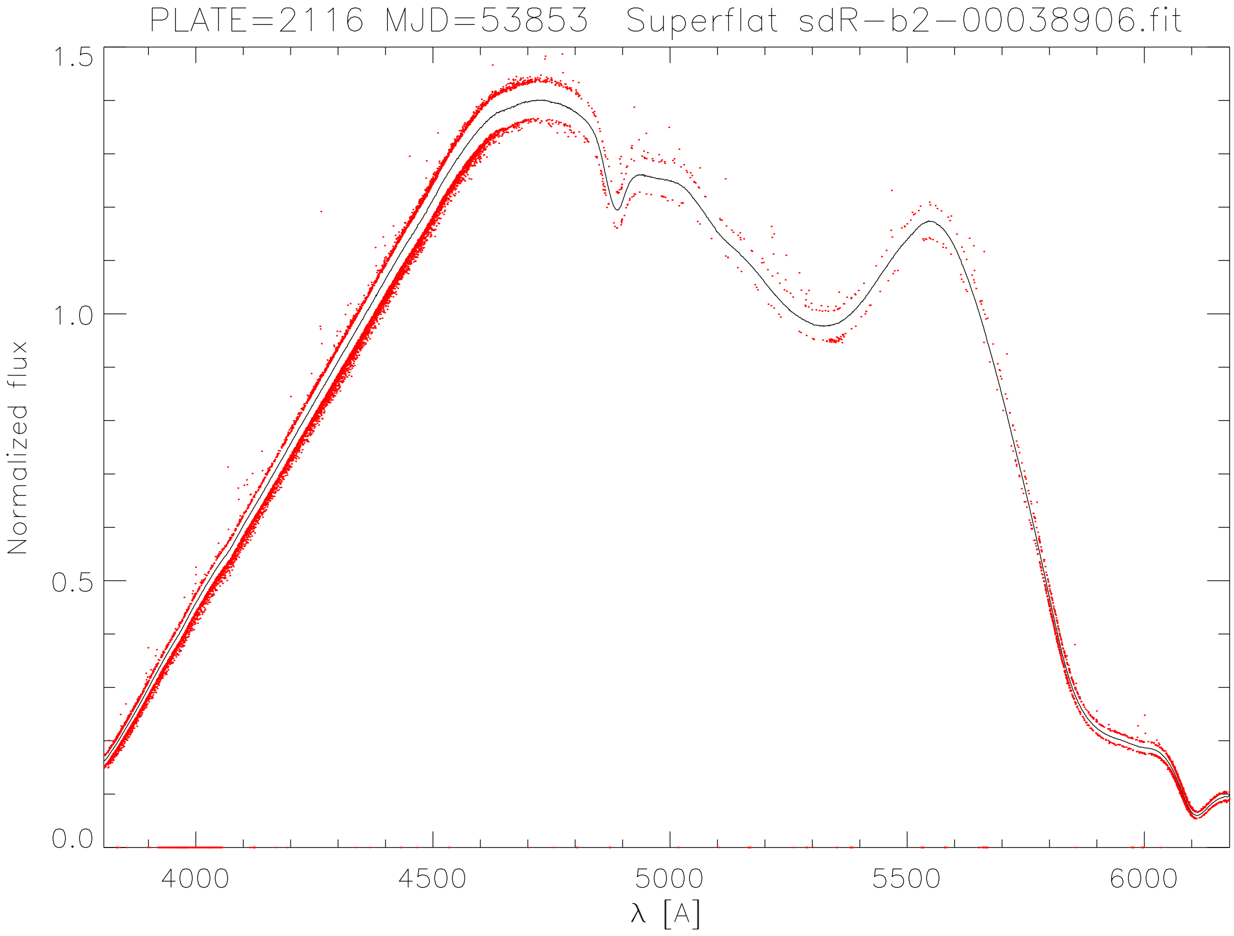

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

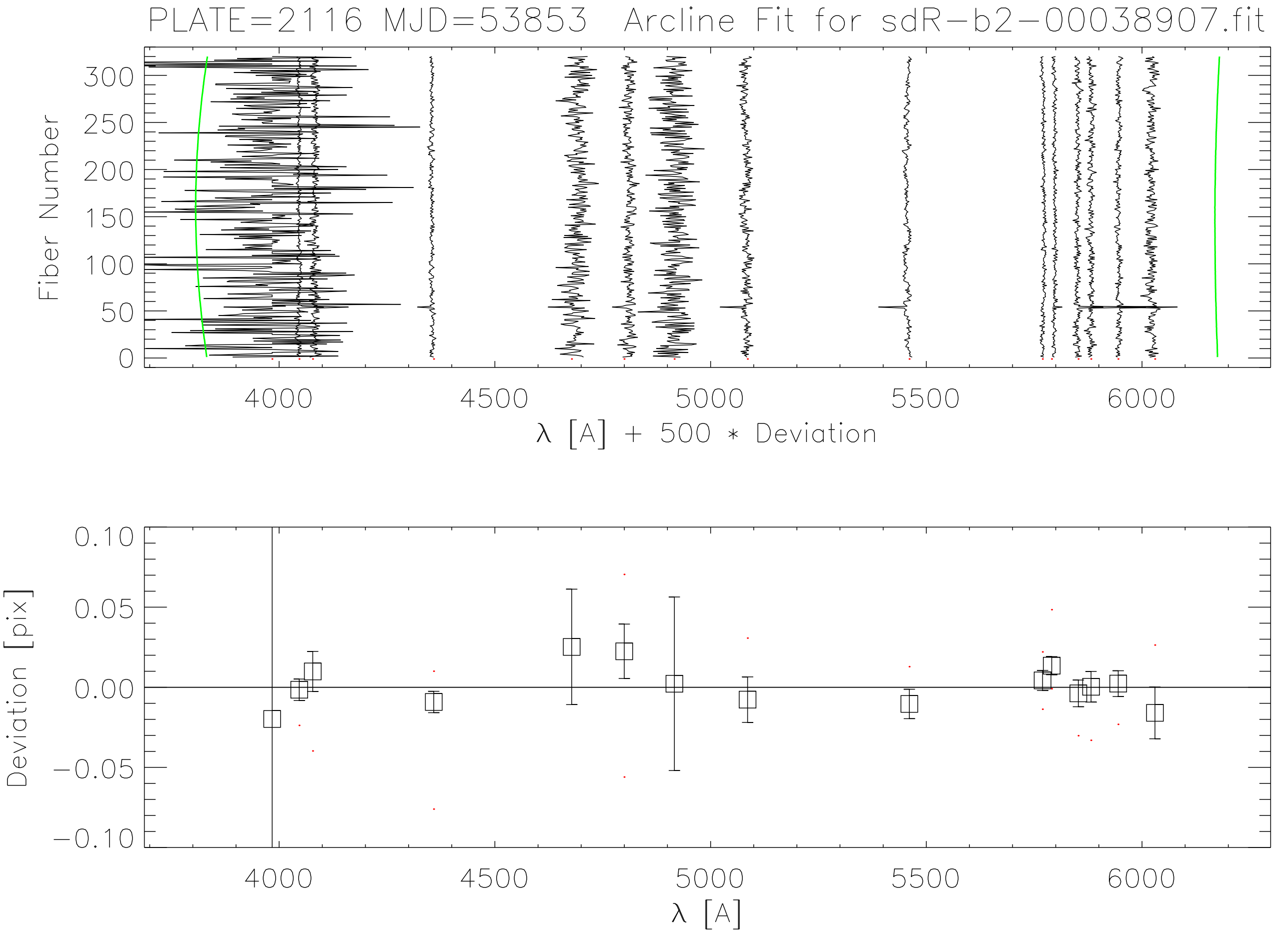

PLATE=2116 MJD=53853 flat extraction chi^2 for sdR-b2-00038901.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number


PLATE=2116 MJD=53853 Superflat sdR-b2-00038901.fit
Normalized flux
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000
λ [A]

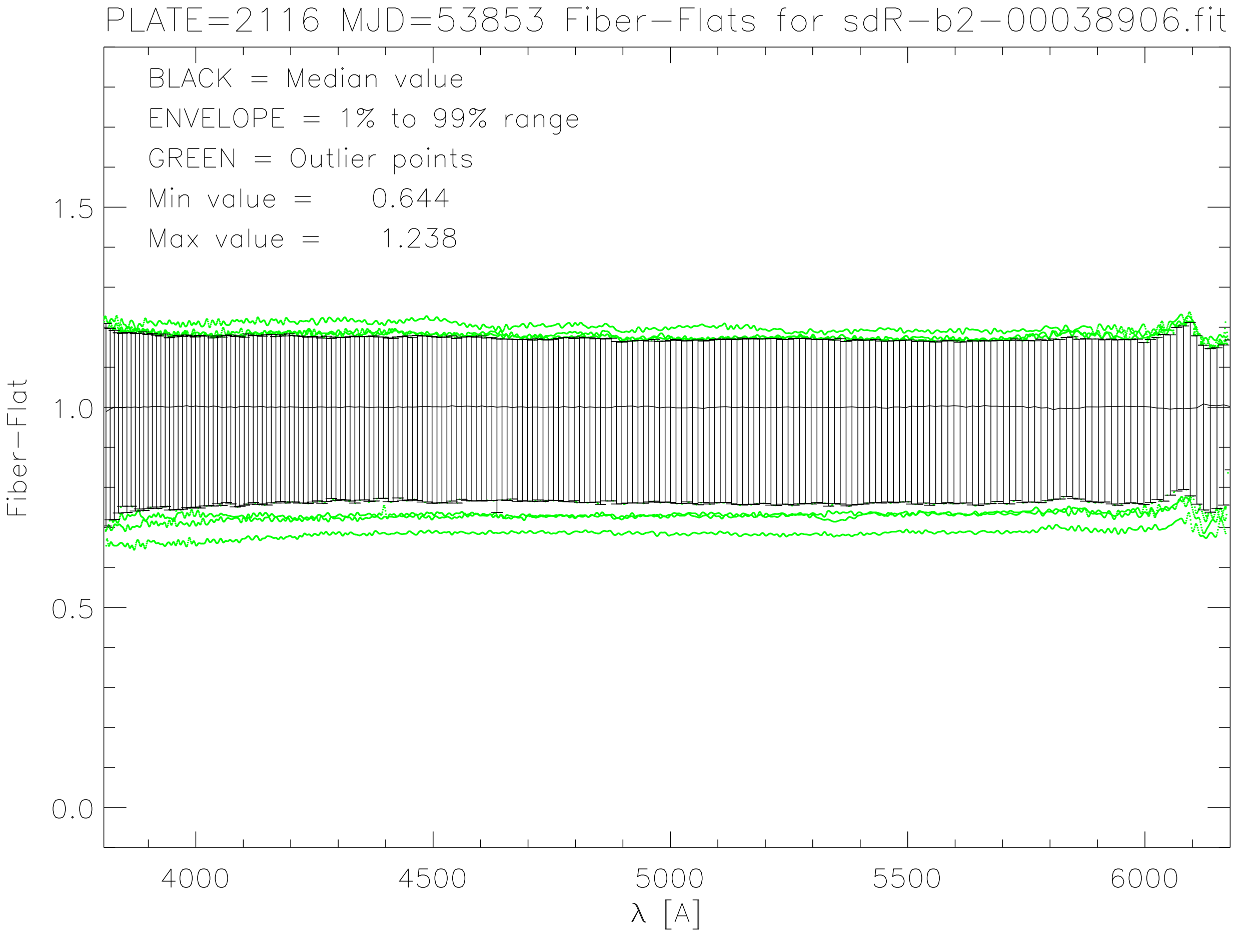


PLATE=2116 MJD=53853 flat extraction chi^2 for sdR-b2-00038906.fit


PLATE=2116 MJD=53853 Superflat sdR-b2-00038906.fit
Normalized flux
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000
λ [A]

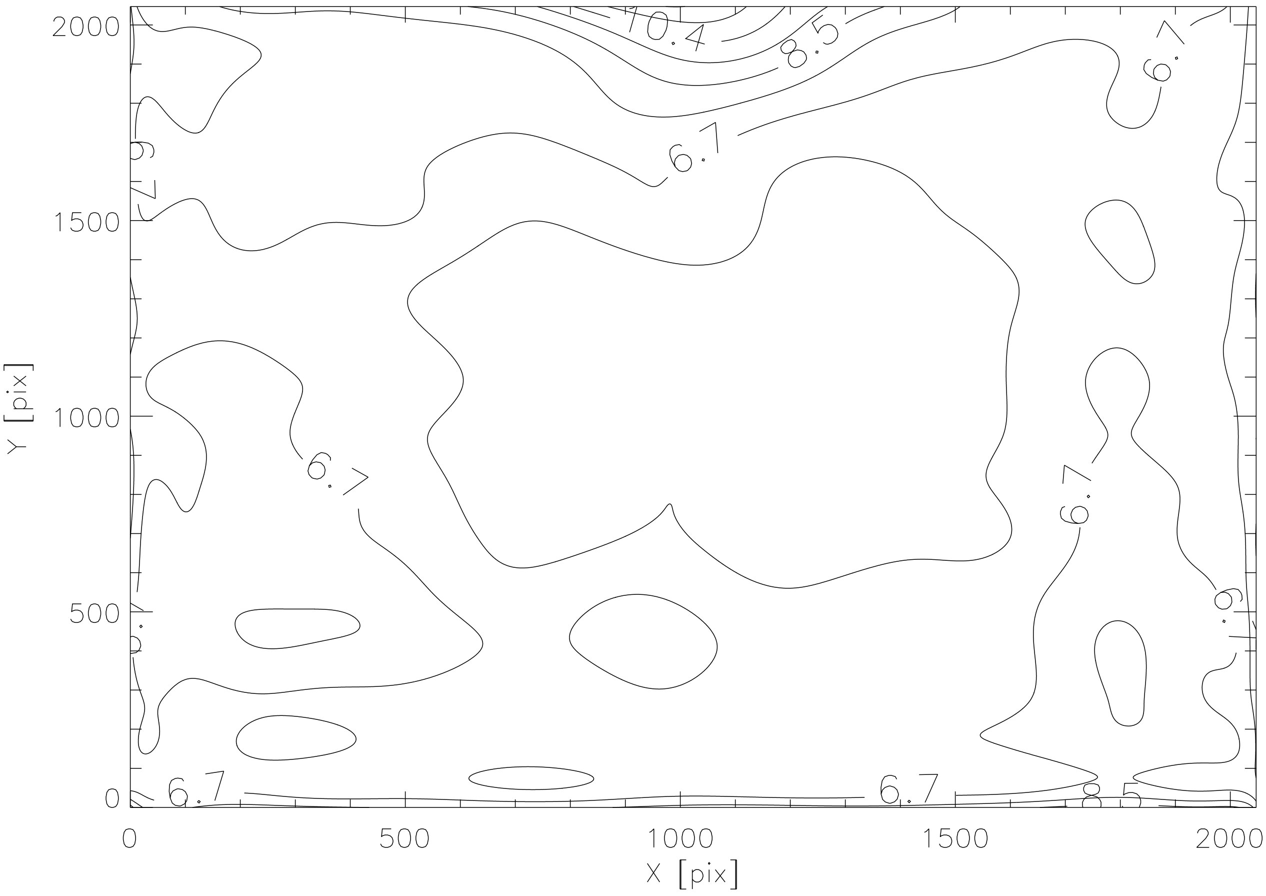


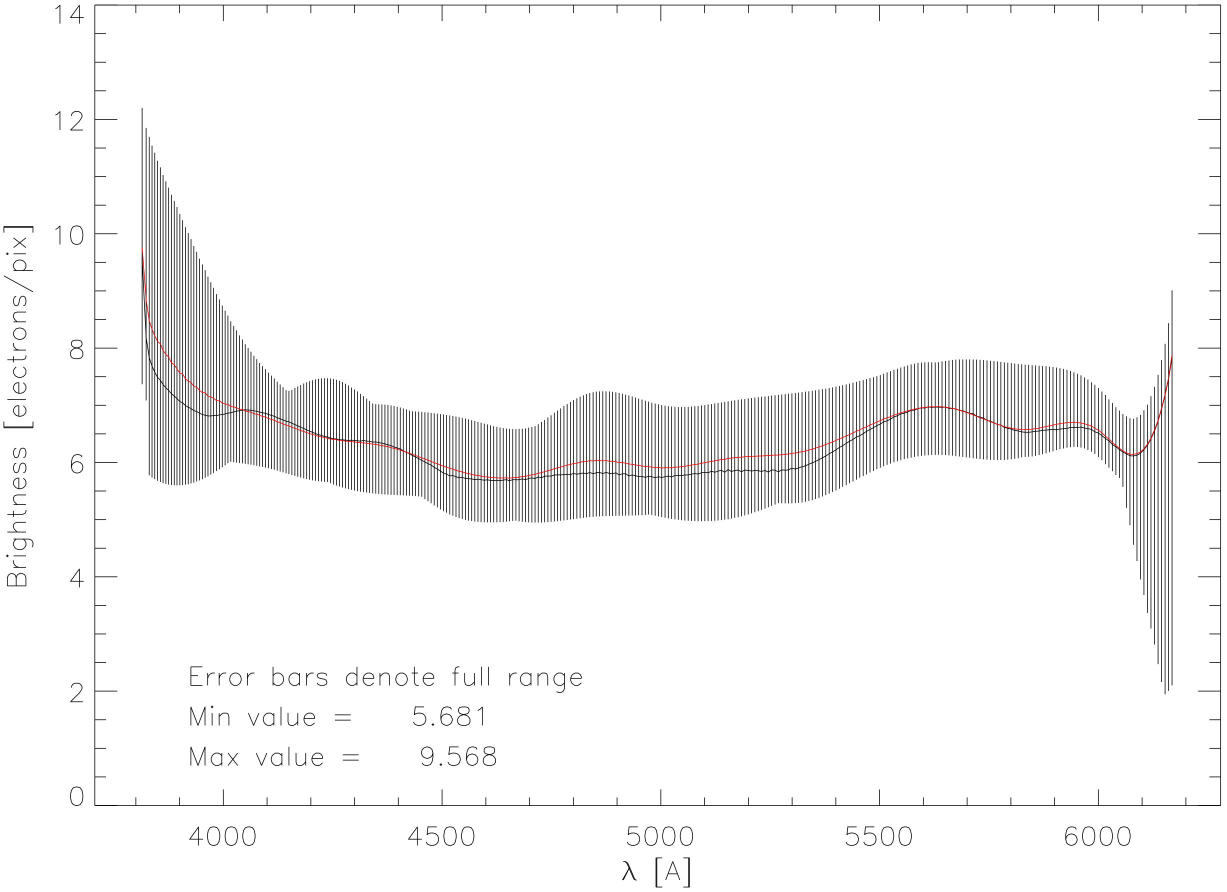
Sun Feb 17 10:37:58 2008



Sun Feb 17 10:38:07 2008

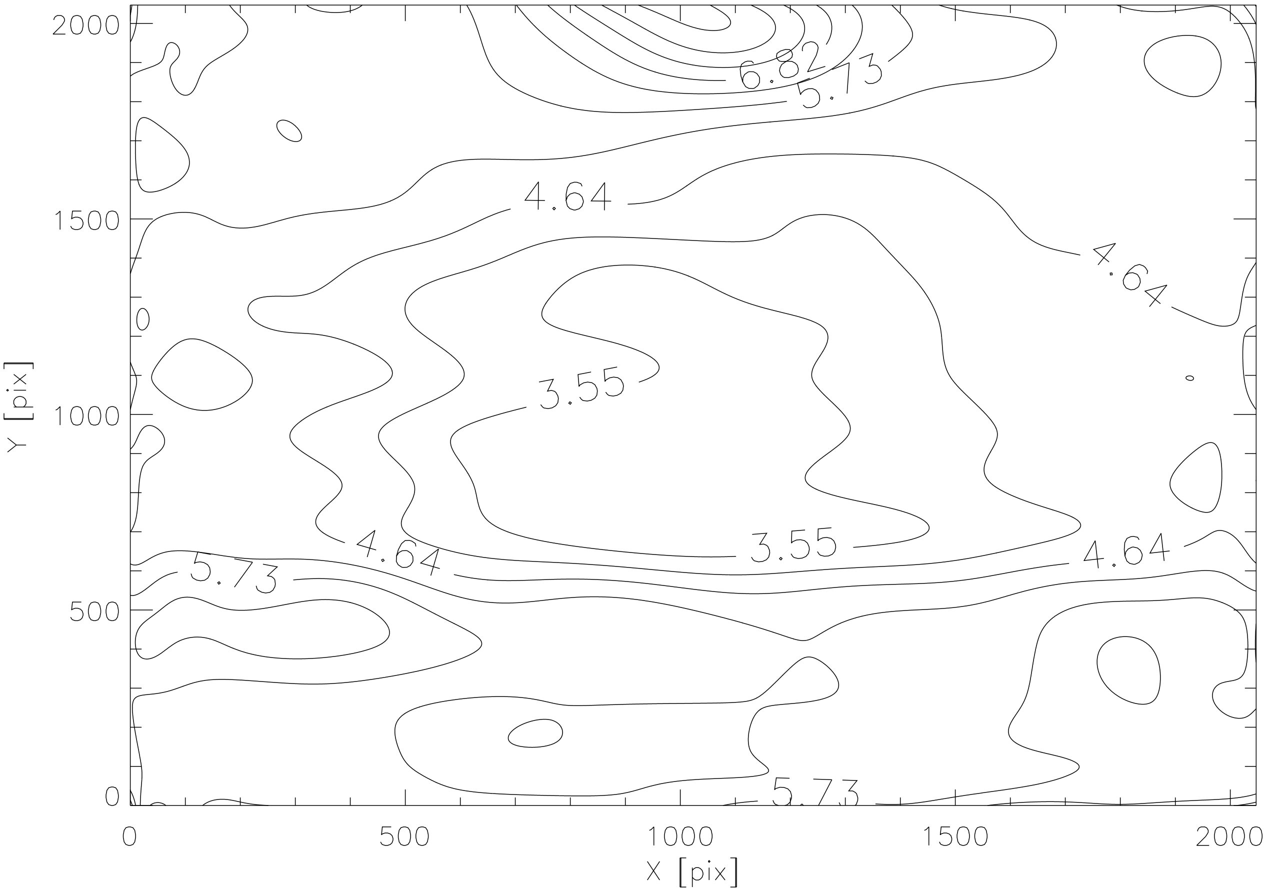
PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-b2-00038903.f



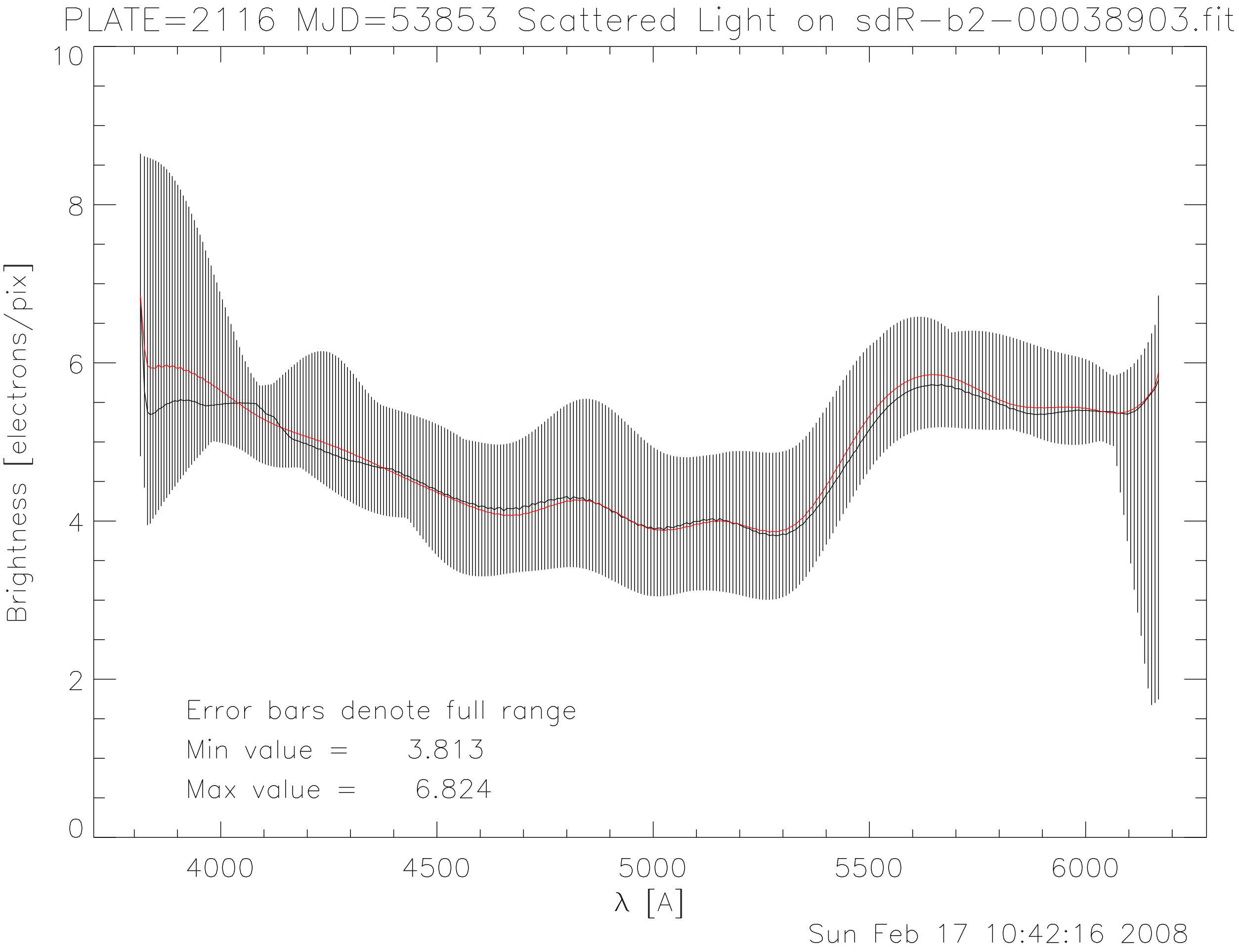


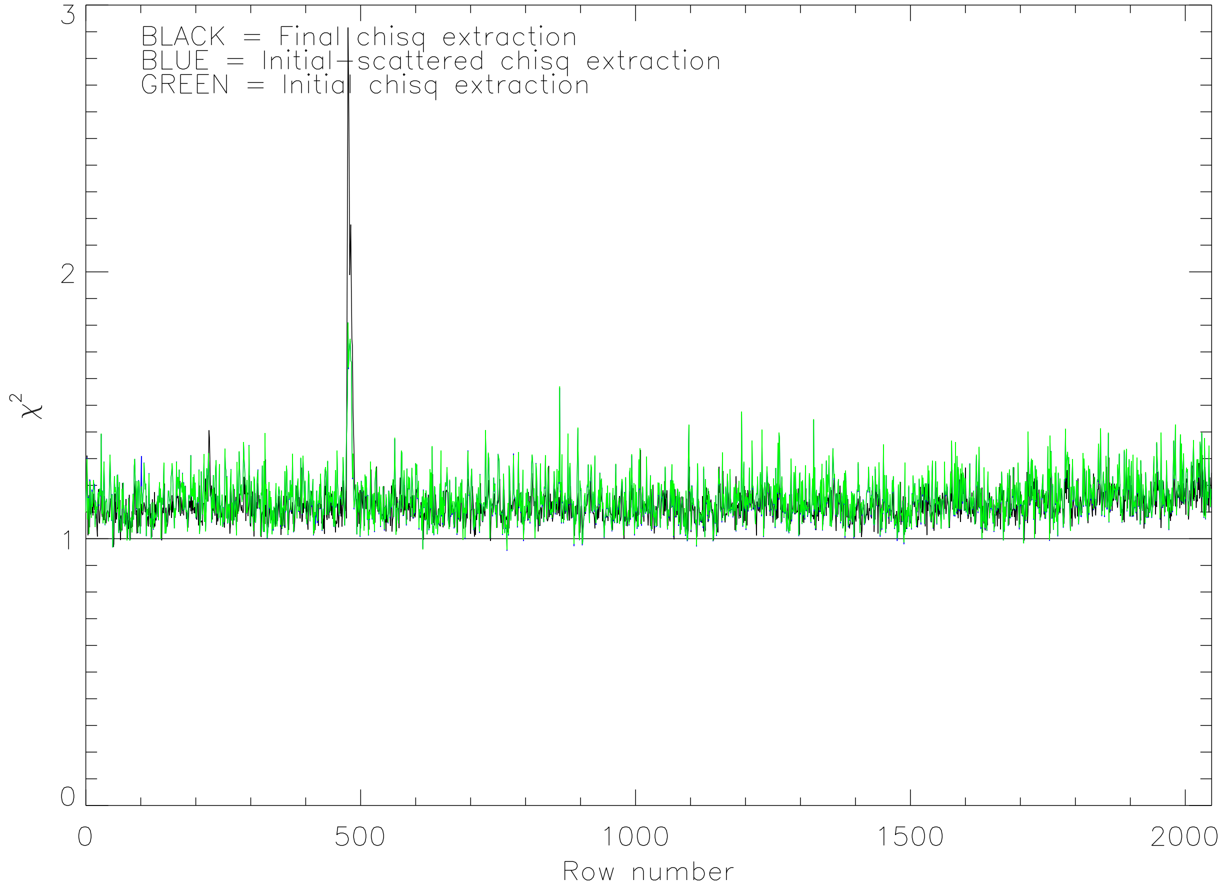
PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-b2-00038903.f

Sun Feb 17 10:39:01 2008

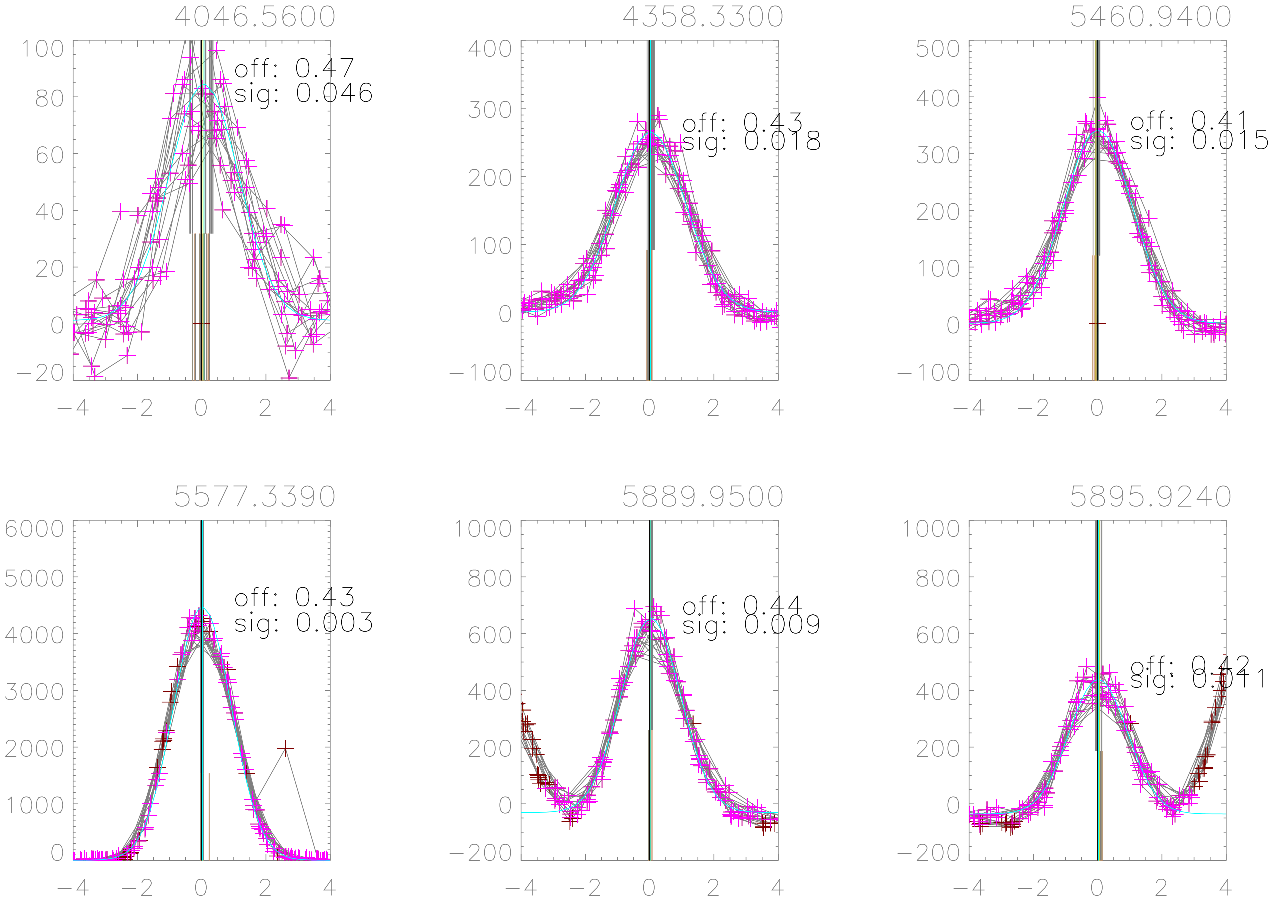


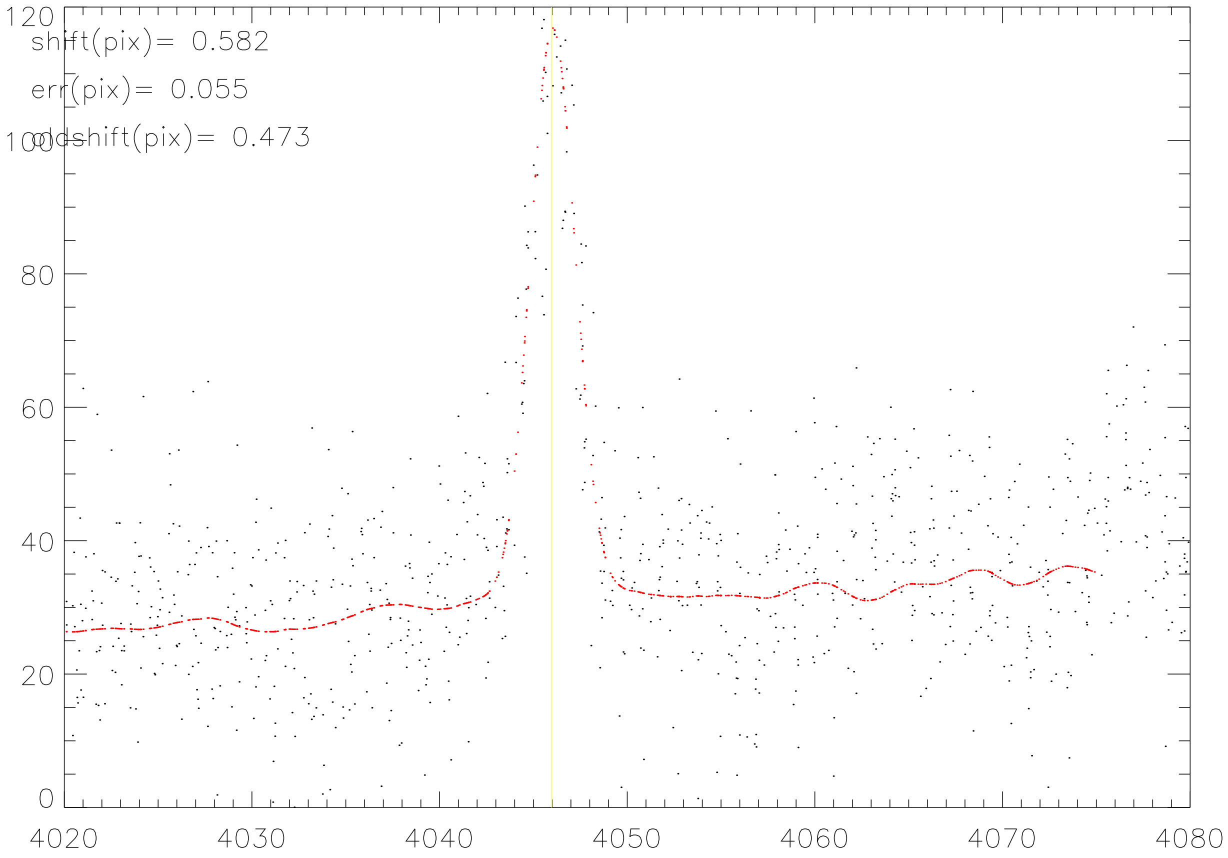
PLATE=2116 MJD=53853 Scattered Light on sdR-b2-00038903.fit

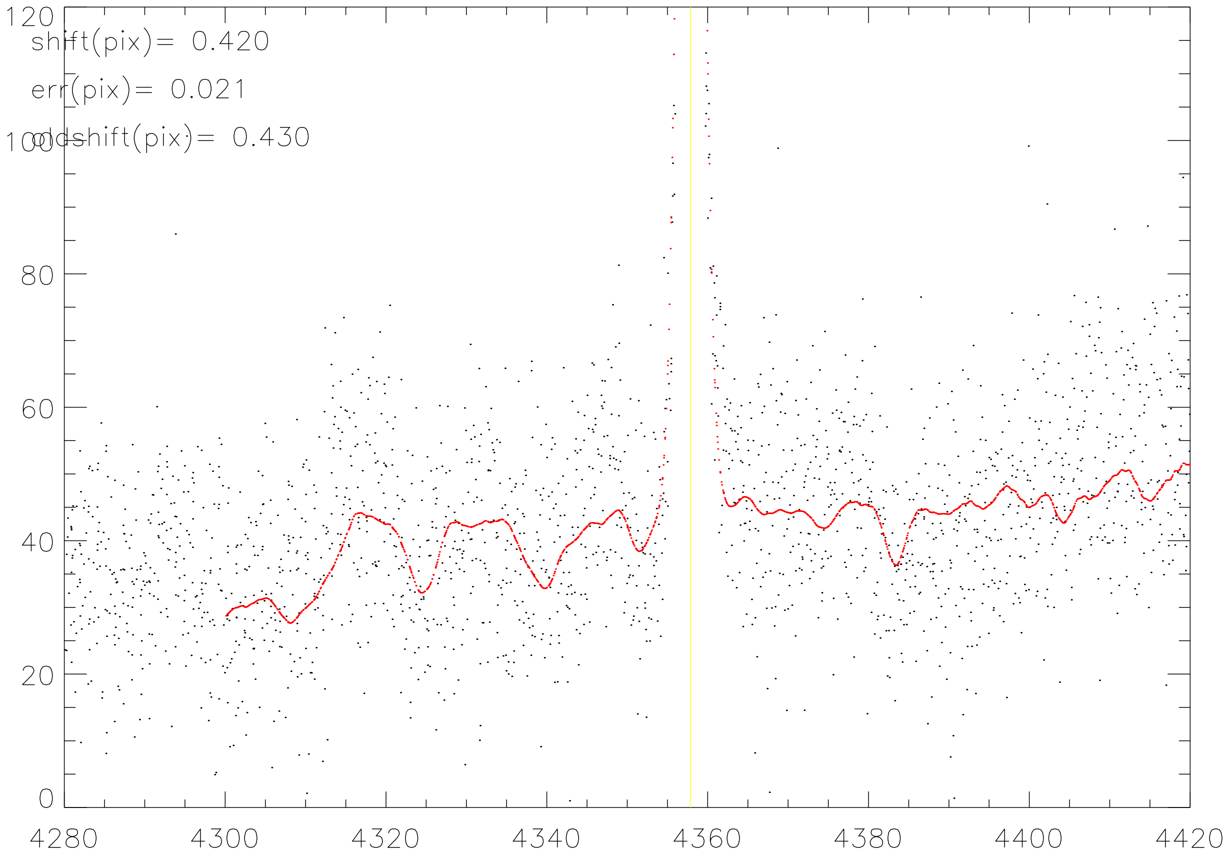

PLATE=2116 MJD=53853 Scattered Light on sdR-b2-00038903.fit
Brightness [electrons/pix]
0
2
4
6
8
10
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 3.813
Max value = 6.824
Sun Feb 17 10:42:16 2008

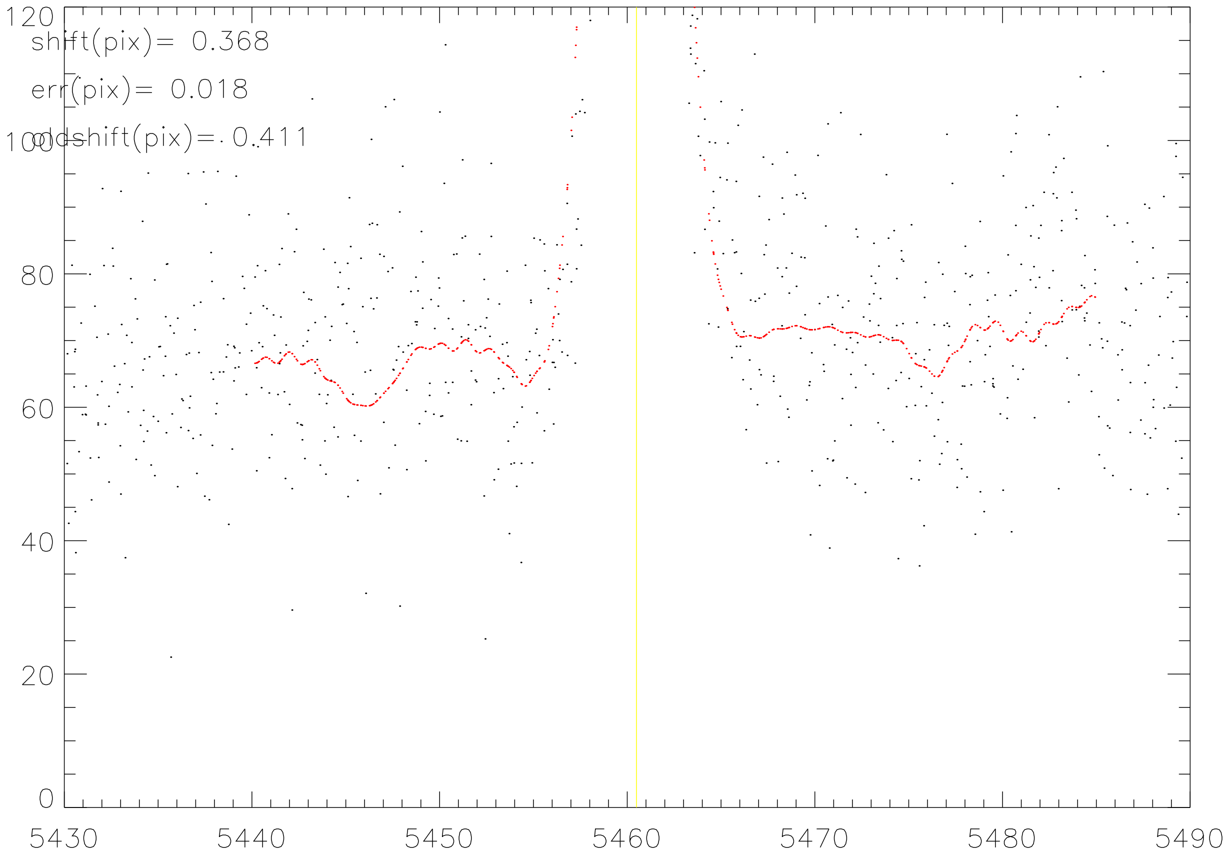


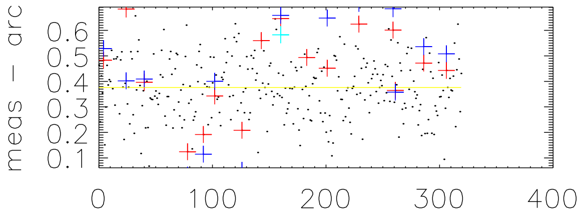
PLATE=2116 MJD=53853 Extraction chi^2 for sdR-b2-00038903.fit

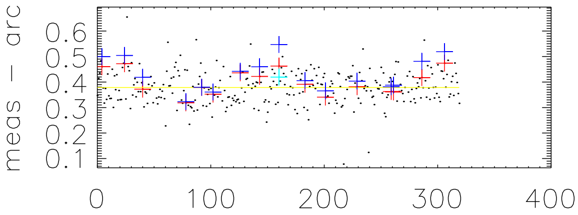

4046.5600
off: 0.47
sig: 0.046
4358.3300
off: 0.43
sig: 0.018
5460.9400
off: 0.41
sig: 0.015
5577.3390
off: 0.43
sig: 0.003
5889.9500
off: 0.44
sig: 0.009
5895.9240
off: 0.42
sig: 0.011
100
80
60
40
20
0
−20
400
300
200
100
0
−100
500
400
300
200
100
0
−100
6000
5000
4000
3000
2000
1000
0
1000
800
600
400
200
0
−200
1000
800
600
400
200
0
−200
−4
−2
0
2
4

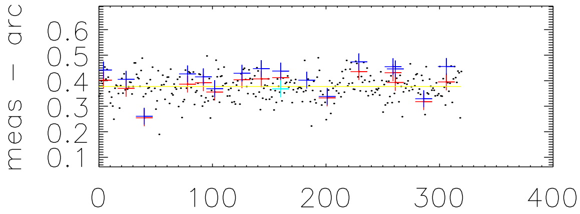

shift(pix)= 0.582
err(pix)= 0.055
oldshift(pix)= 0.473
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

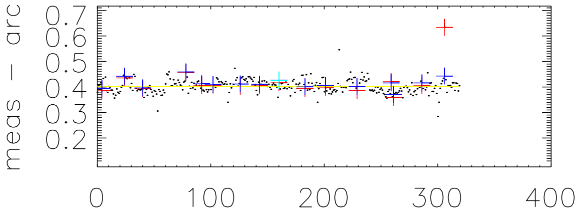

shift(pix)= 0.420
err(pix)= 0.021
oldshift(pix)= 0.430
0
20
40
60
80
100
120
4280
4300
4320
4340
4360
4380
4400
4420

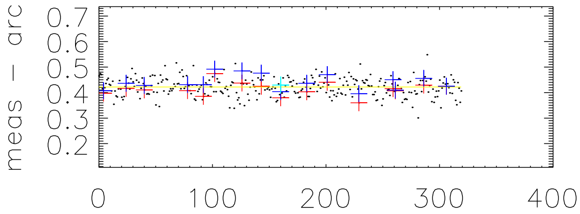

shift(pix)= 0.368
err(pix)= 0.018
oldshift(pix)= 0.411
0
20
40
60
80
100
120
5430
5440
5450
5460
5470
5480
5490

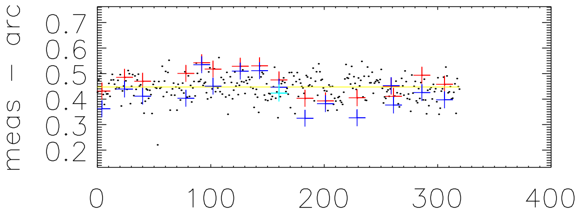

4046.5600

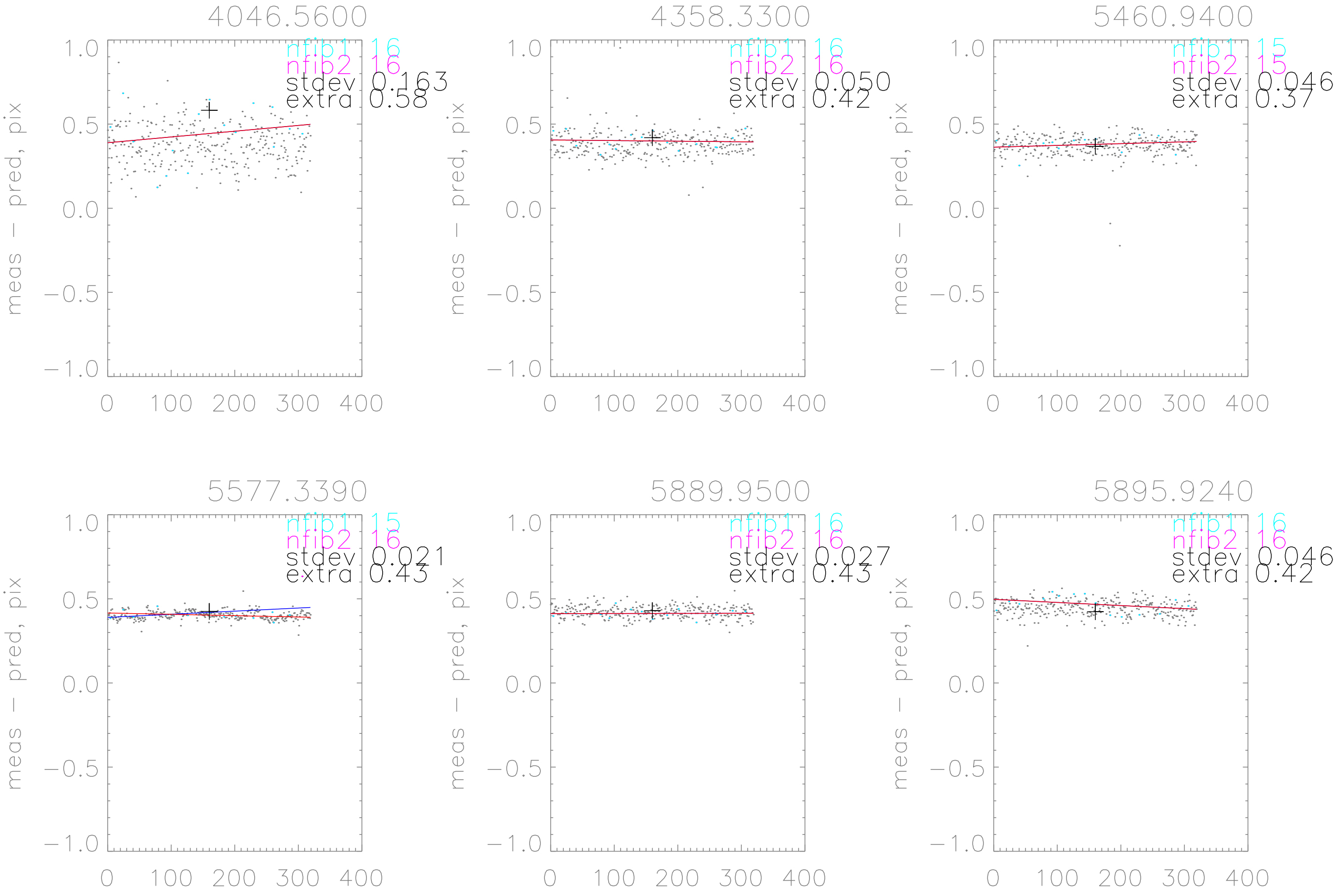

4358.3300

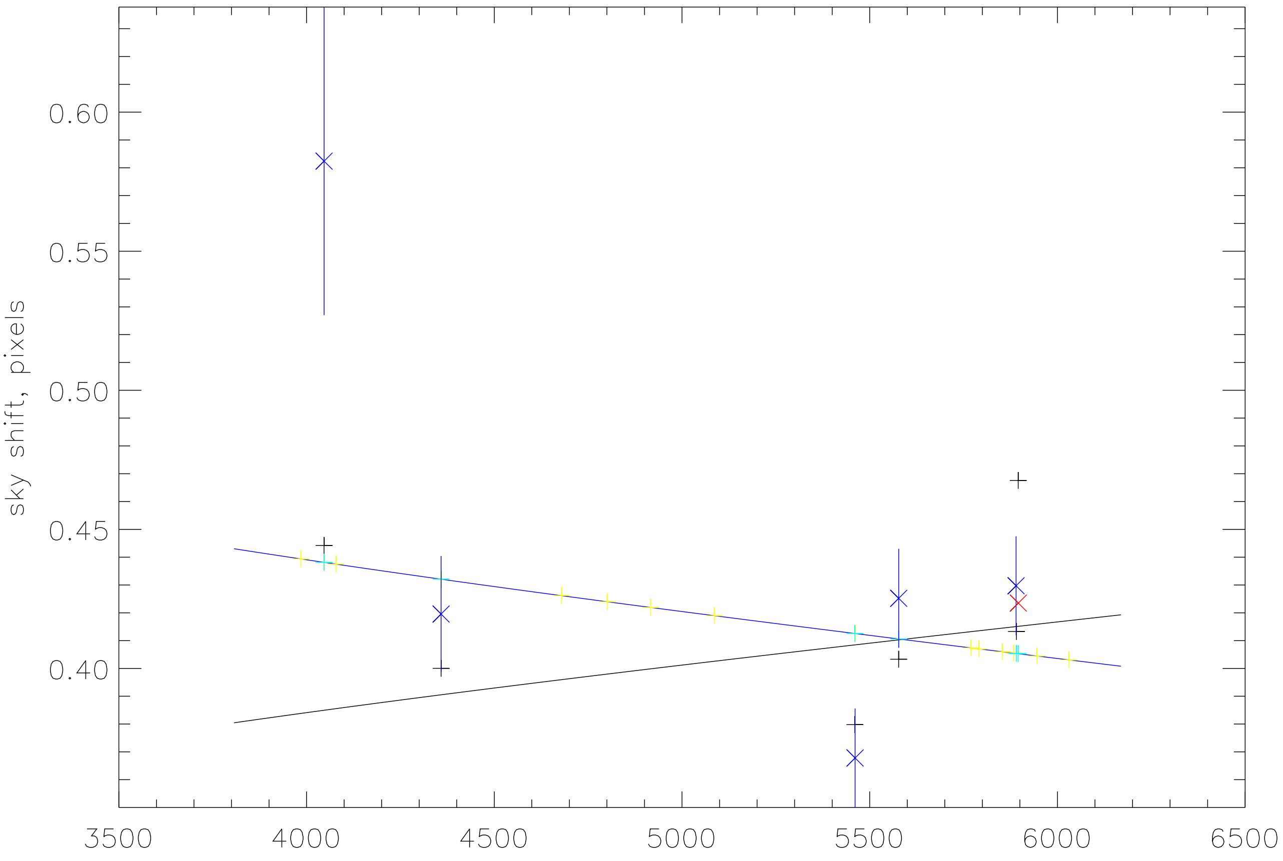

5460.9400

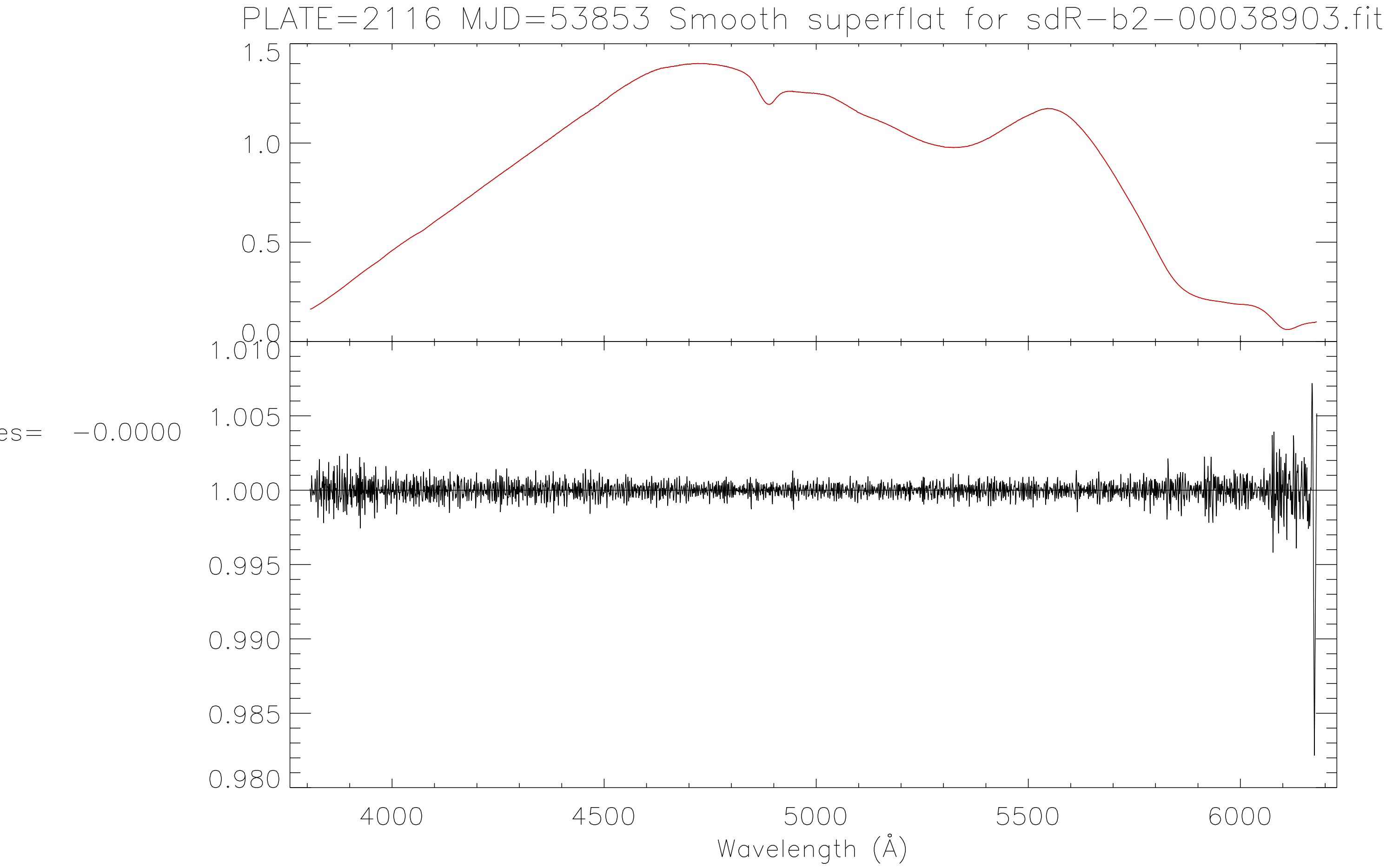

5577.3390

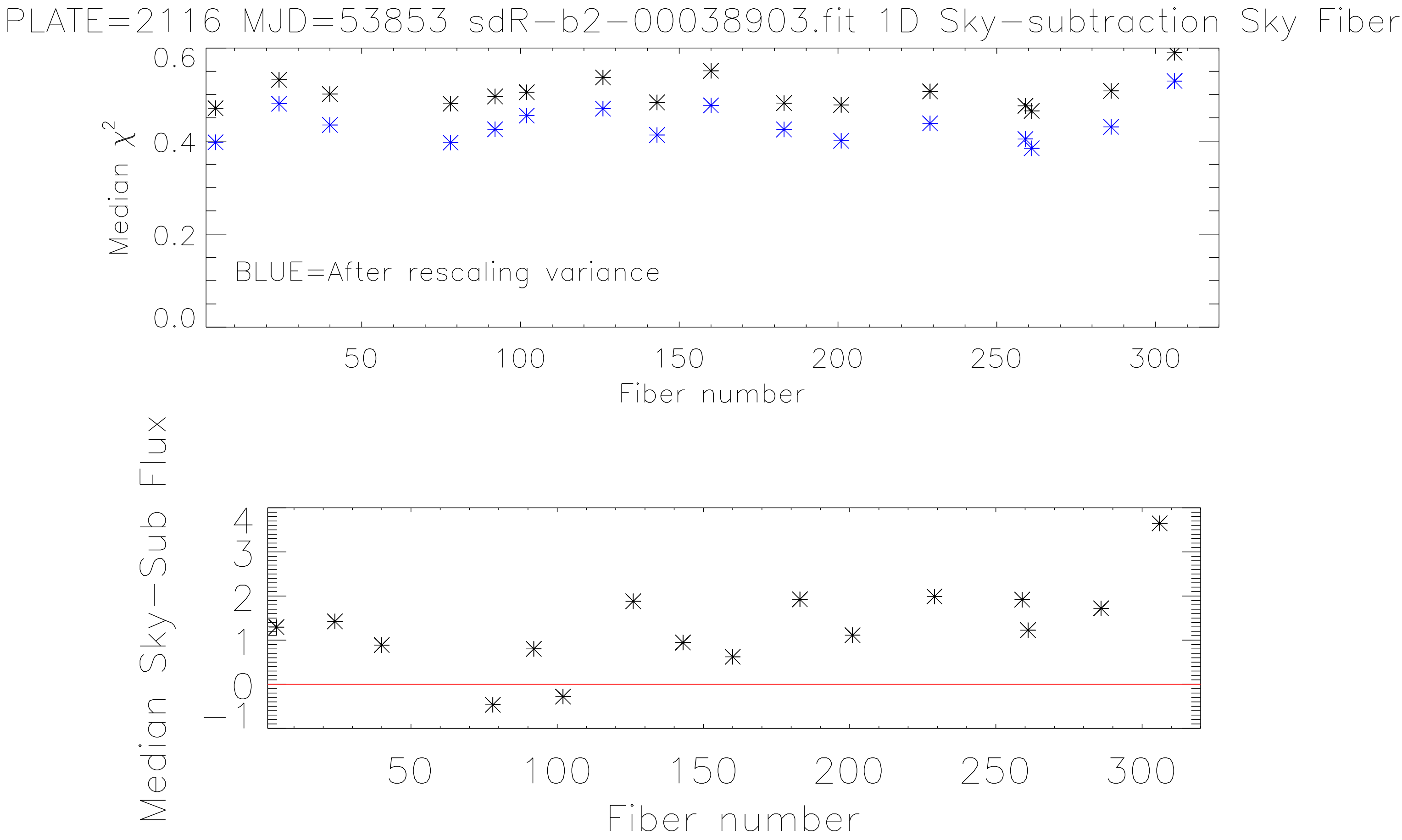

5889.9500


5895.9240

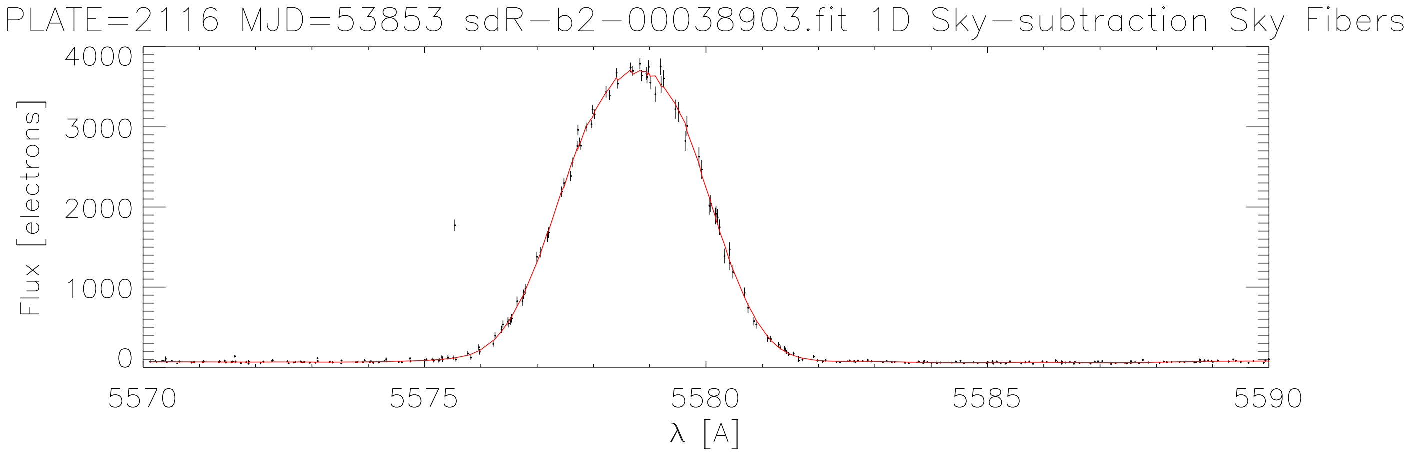

4046.5600
nfib1 16
nfib2 16
stdev 0.163
extra 0.58
4358.3300
nfib1 16
nfib2 16
stdev 0.050
extra 0.42
5460.9400
nfib1 15
nfib2 15
stdev 0.046
extra 0.37
5577.3390
nfib1 15
nfib2 16
stdev 0.021
extra 0.43
5889.9500
nfib1 16
nfib2 16
stdev 0.027
extra 0.43
5895.9240
nfib1 16
nfib2 16
stdev 0.046
extra 0.42
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

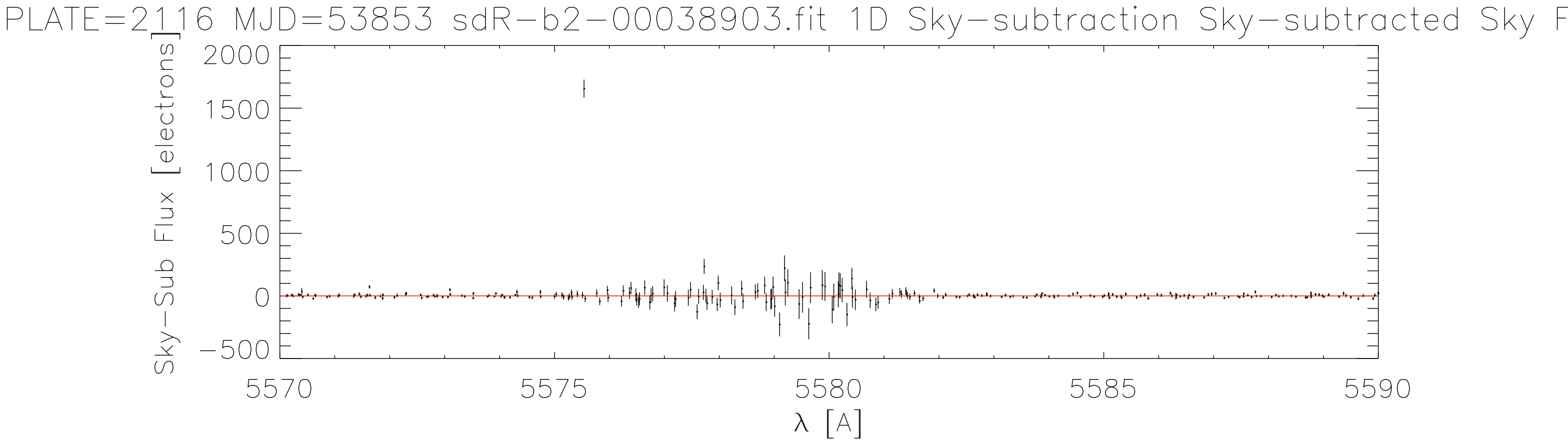

sky shift, pixels
0.60
0.55
0.50
0.45
0.40
3500
4000
4500
5000
5500
6000
6500


PLATE=2116 MJD=53853 Smooth superflat for sdR-b2-00038903.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= -0.0000
4000
4500
5000
5500
6000
Wavelength (Å)



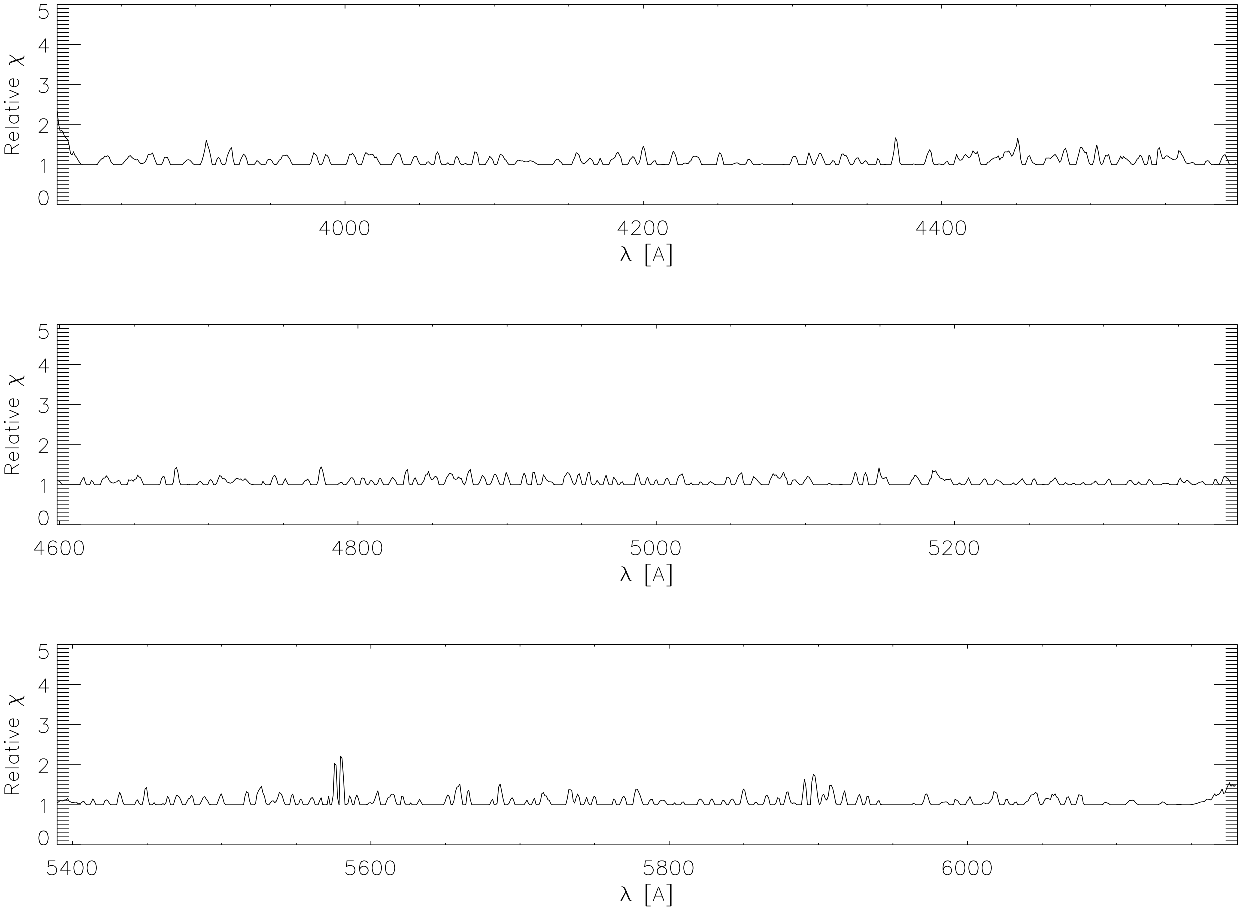
PLATE=2116 MJD=53853 sdR-b2-00038903.fit 1D Sky-subtraction Sky Fiber

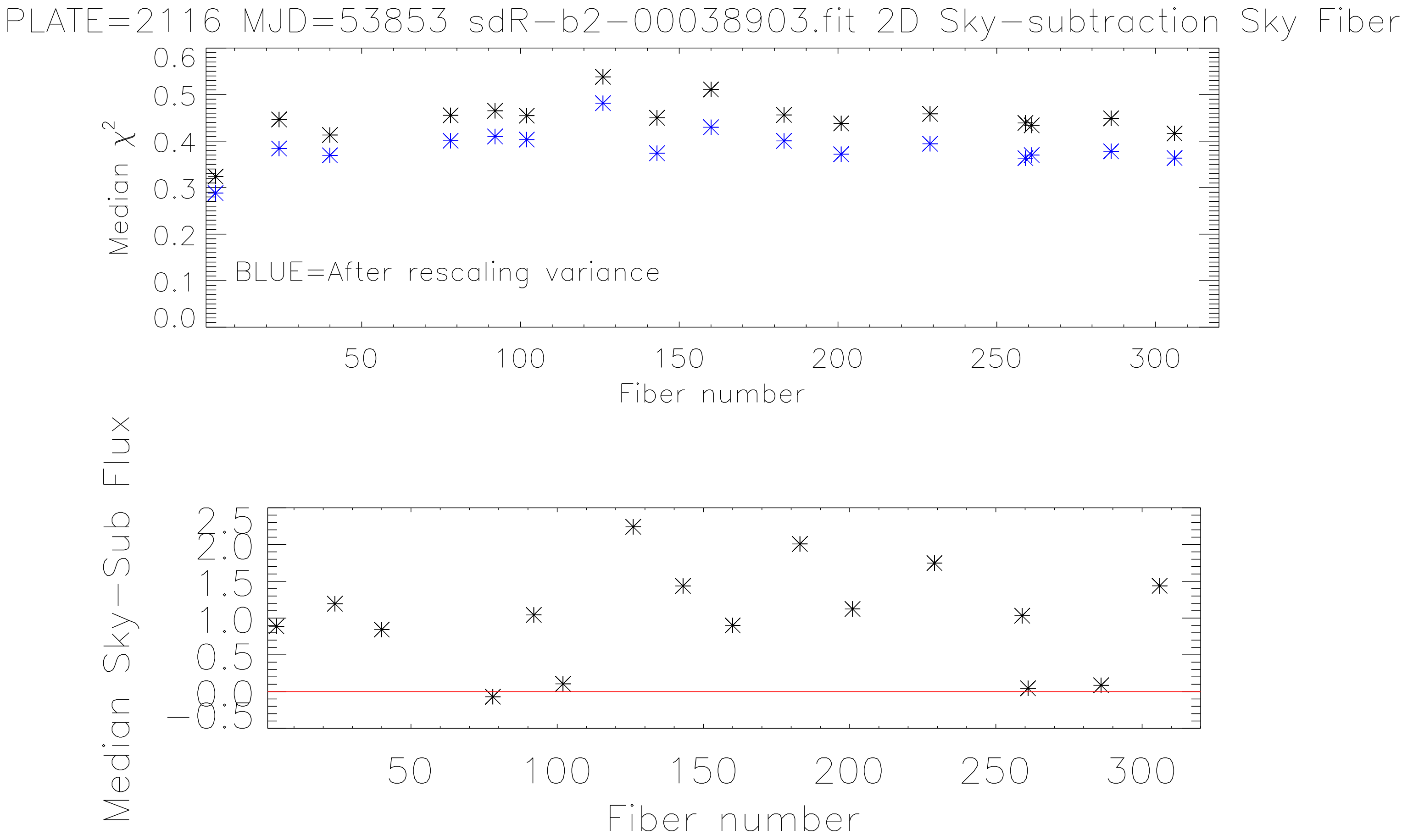

PLATE=2116 MJD=53853 sdR-b2-00038903.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
4000
3000
2000
1000
0
5570
5575
5580
5585
5590
λ [A]


PLATE=2116 MJD=53853 sdR-b2-00038903.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
2000
1500
1000
500
0
-500
5570
5575
5580
5585
5590
λ [A]

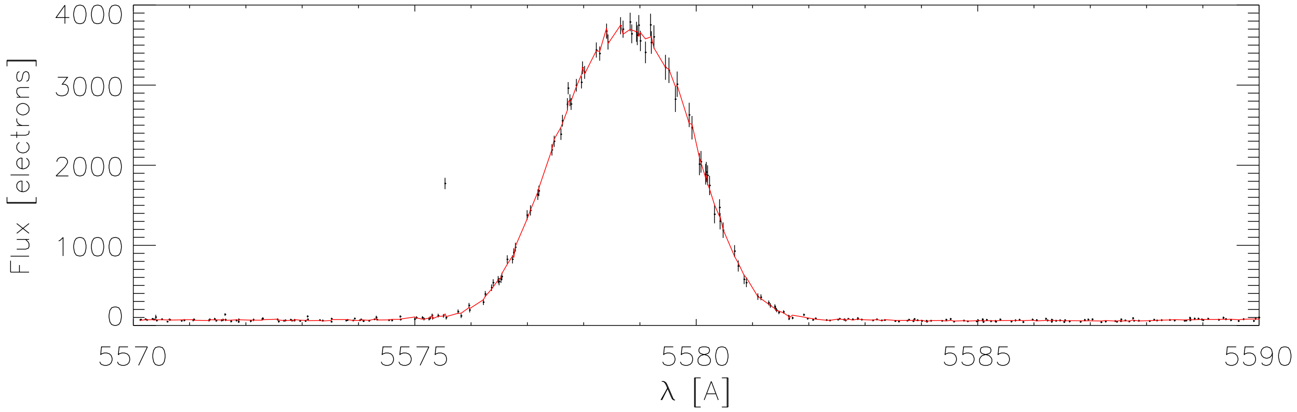
Number of sky fibers = 16

PLATE=2116 MJD=53853 sdR-b2-00038903.fit 1D Sky-subtraction Rescaled Errors

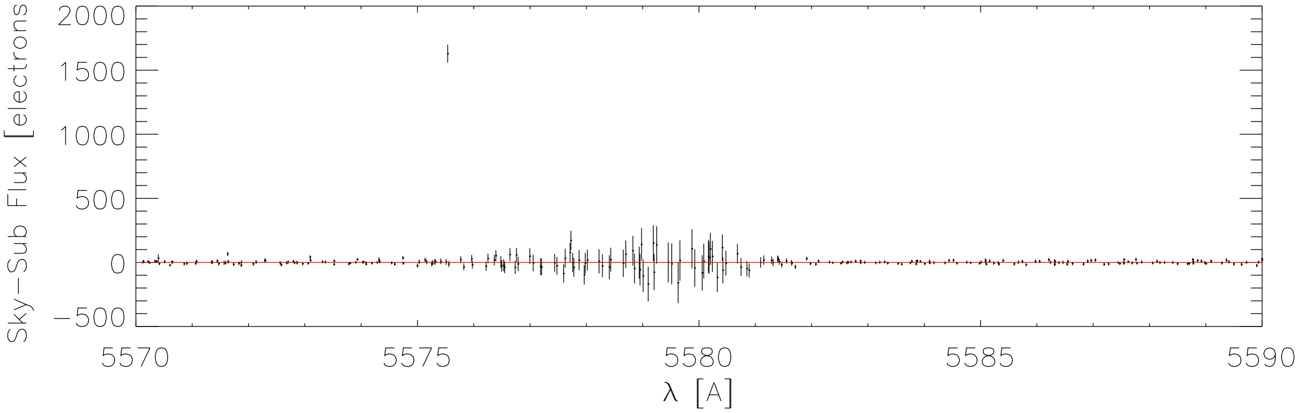



PLATE=2116 MJD=53853 sdR-b2-00038903.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-0.5
0.0
0.5
1.0
1.5
2.0
2.5
50
100
150
200
250
300
Fiber number

PLATE=2116 MJD=53853 sdR-b2-00038903.fit 2D Sky-subtraction Sky Fibers

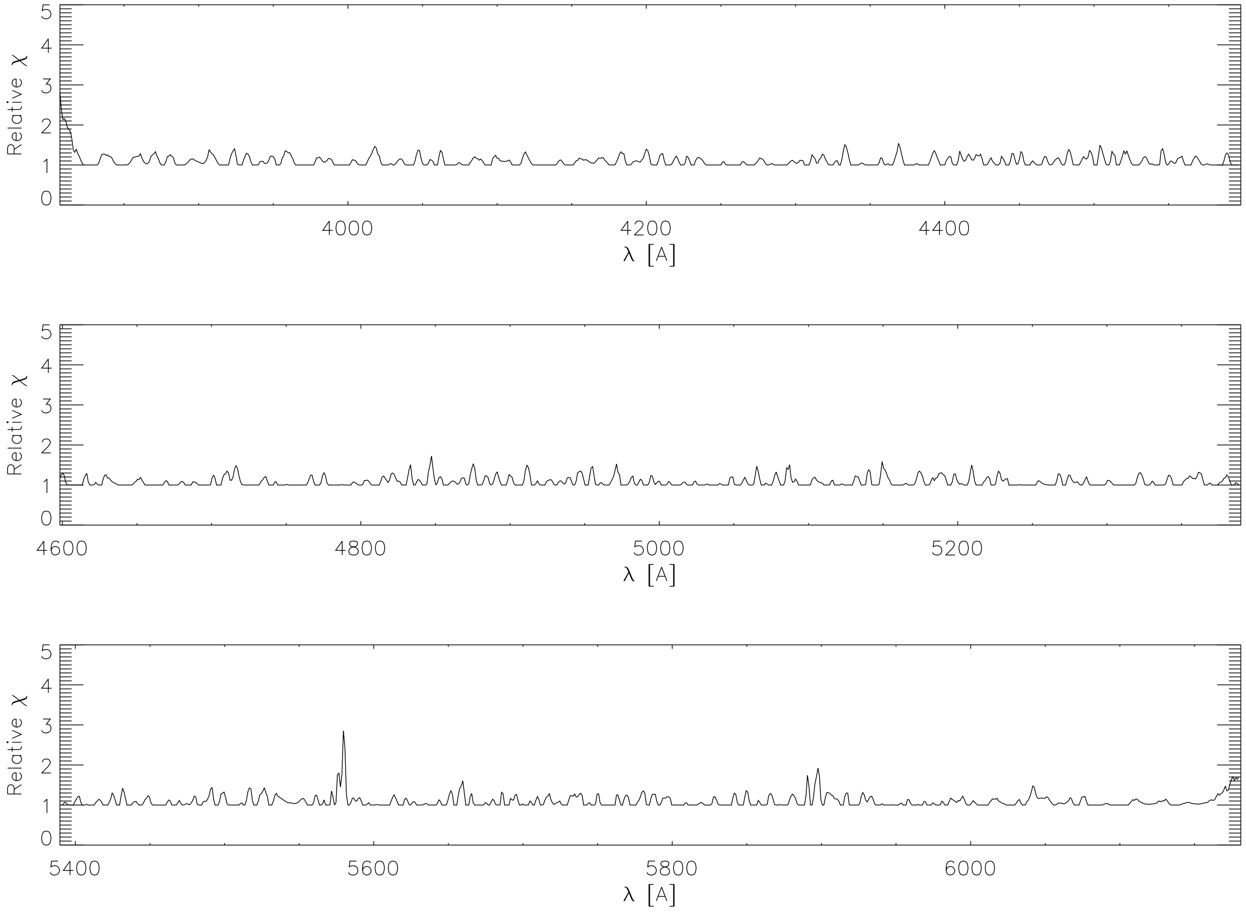


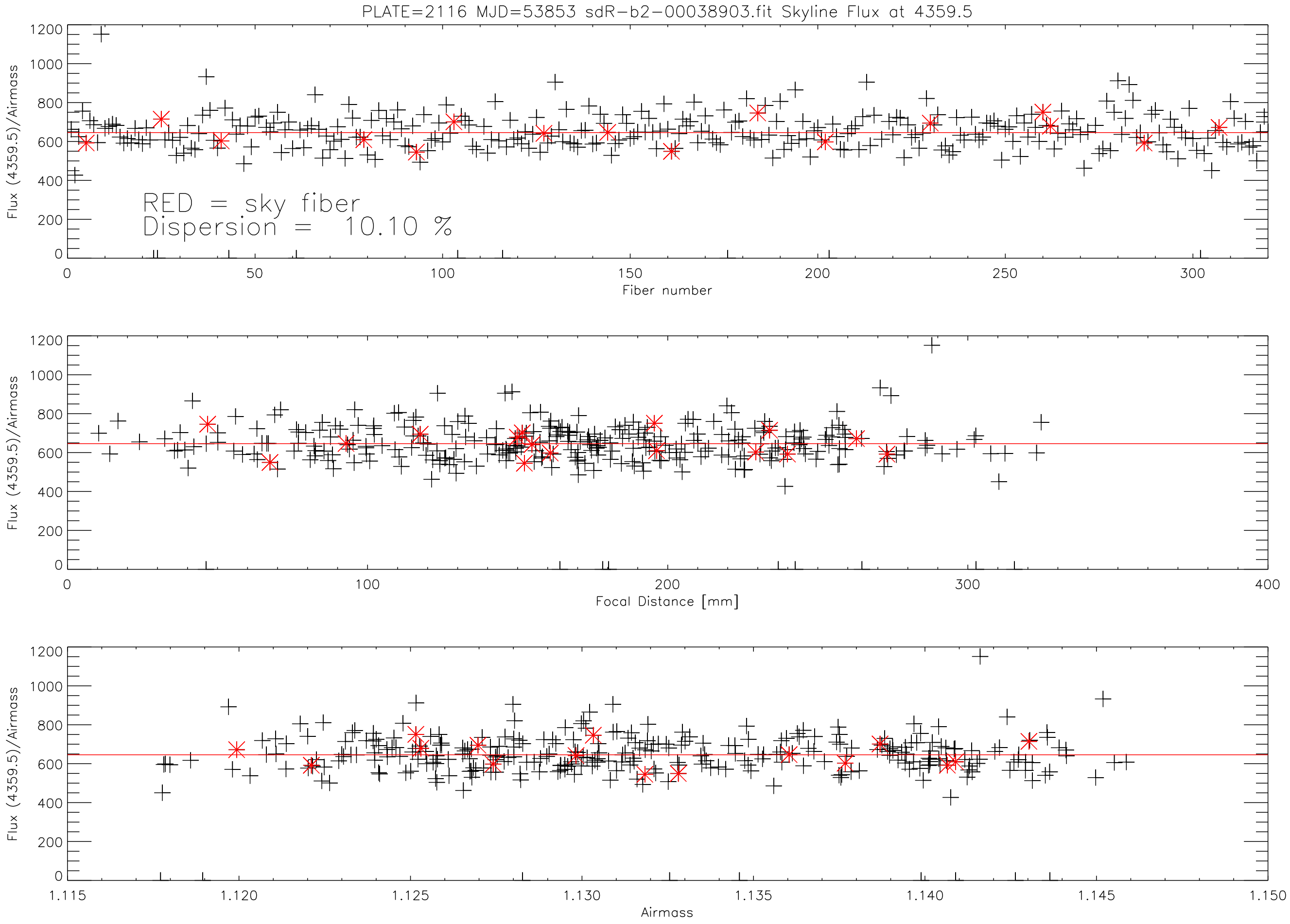
PLATE=2116 MJD=53853 sdR-b2-00038903.fit 2D Sky-subtraction Sky-subtracted Sky F

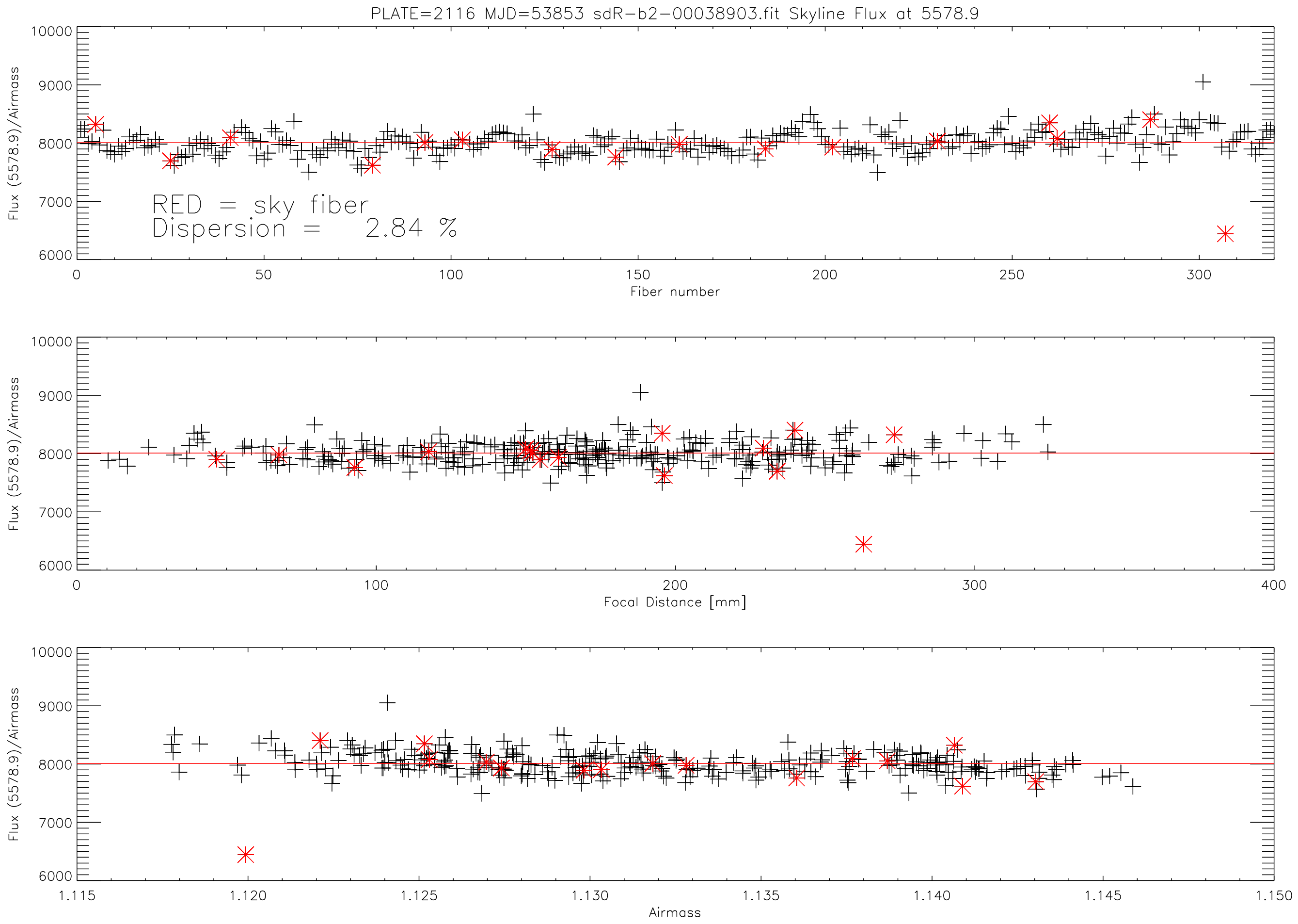


Number of sky fibers = 16

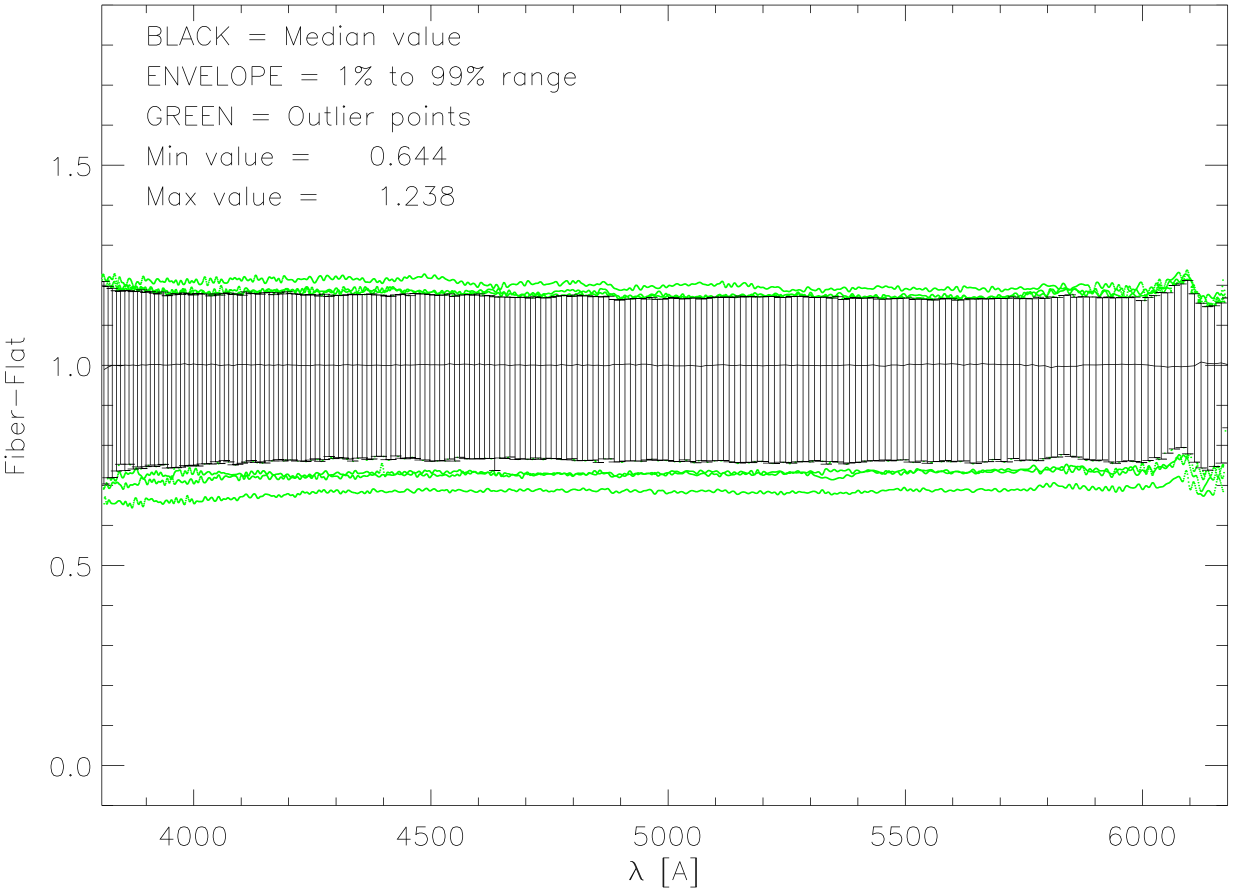
PLATE=2116 MJD=53853 sdR-b2-00038903.fit 2D Sky-subtraction Rescaled Errors



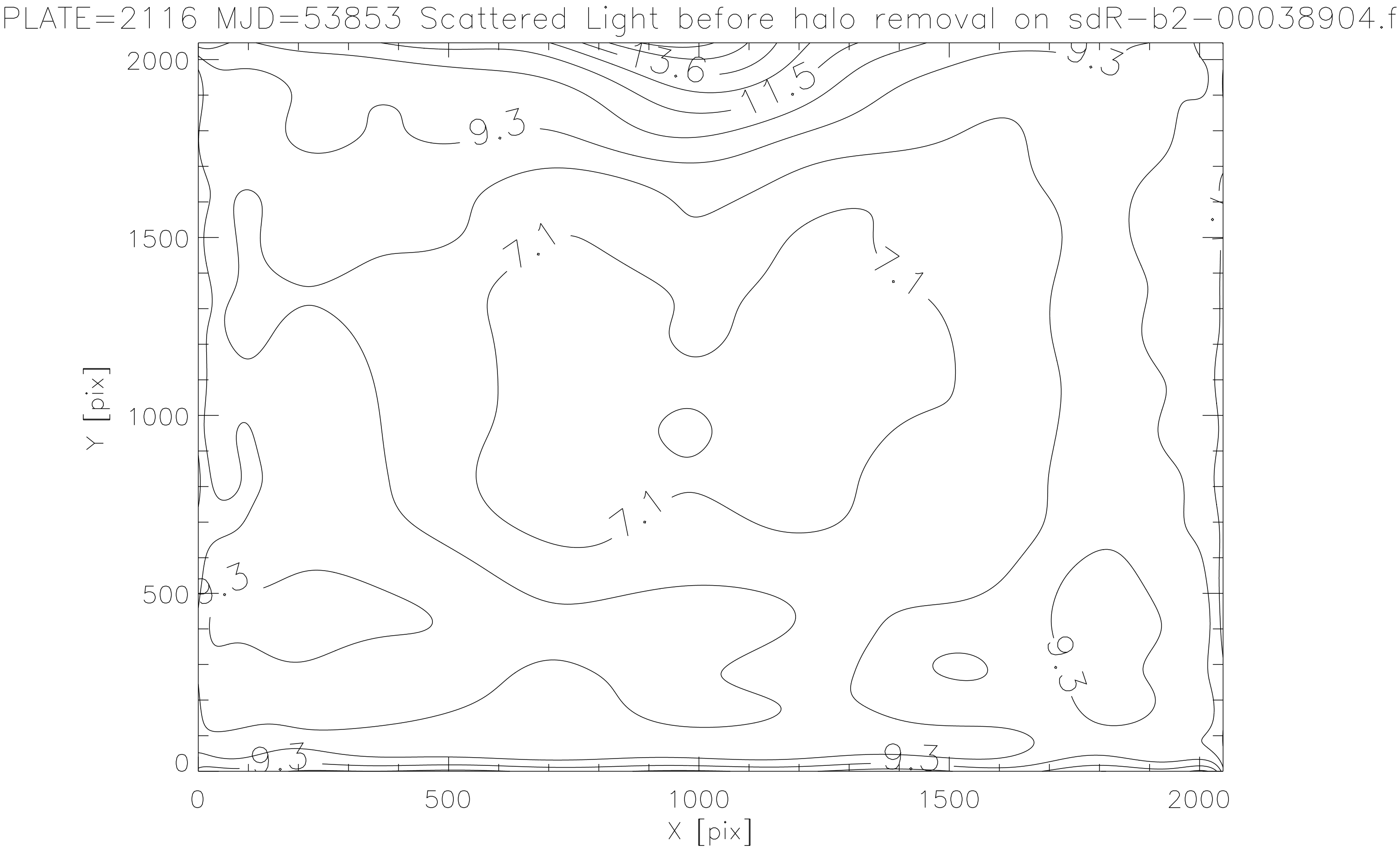

PLATE=2116 MJD=53853 sdR-b2-00038903.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
1200
1000
800
600
400
200
0
RED = sky fiber
Dispersion = 10.10 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
1200
1000
800
600
400
200
0
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
1200
1000
800
600
400
200
0
1.115
1.120
1.125
1.130
1.135
1.140
1.145
1.150
Airmass


PLATE=2116 MJD=53853 sdR-b2-00038903.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
10000
9000
8000
7000
6000
RED = sky fiber
Dispersion = 2.84 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
10000
9000
8000
7000
6000
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
10000
9000
8000
7000
6000
1.115
1.120
1.125
1.130
1.135
1.140
1.145
1.150
Airmass

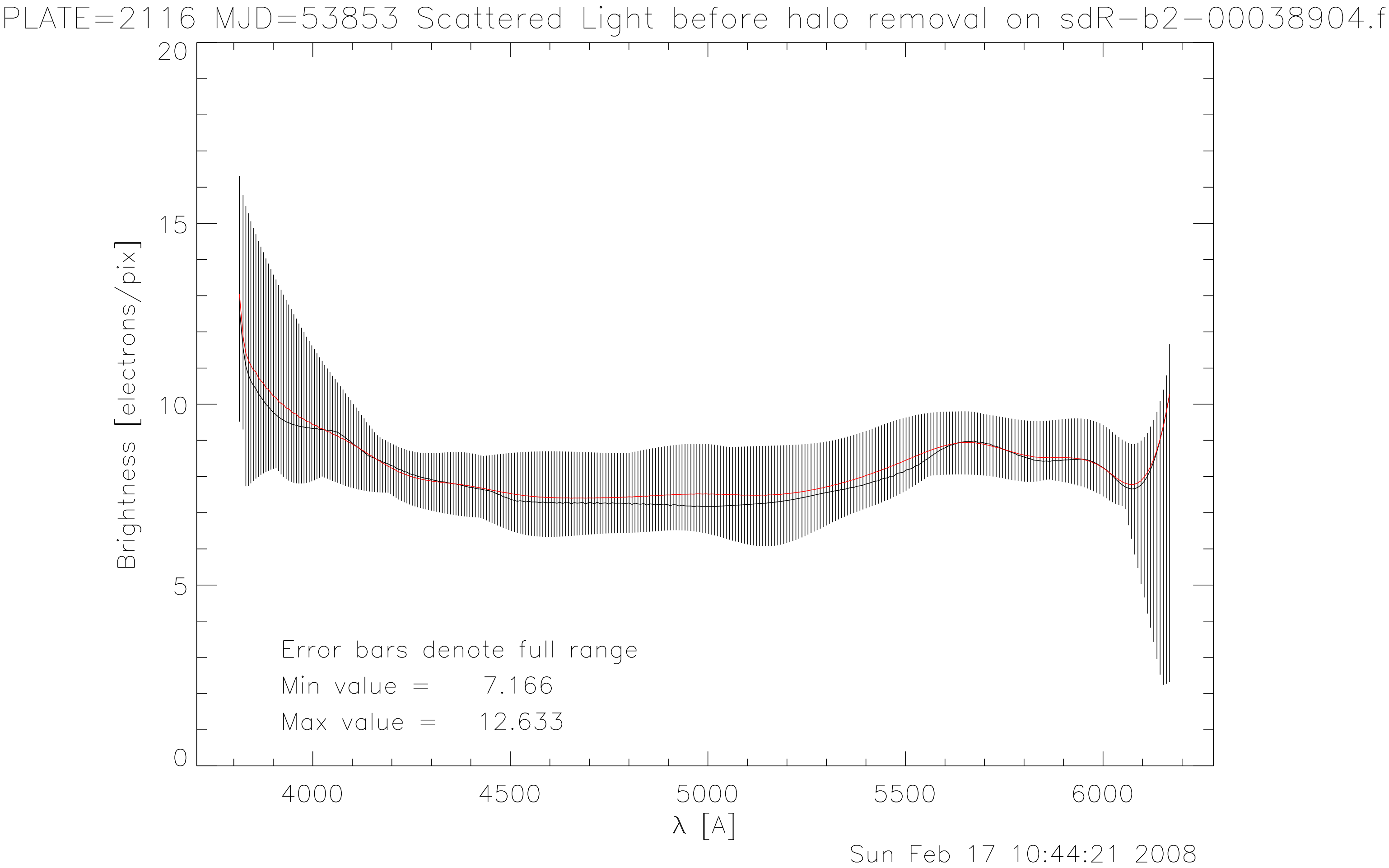
PLATE=2116 MJD=53853 Fiber-Flats for sdR-b2-00038906.fit

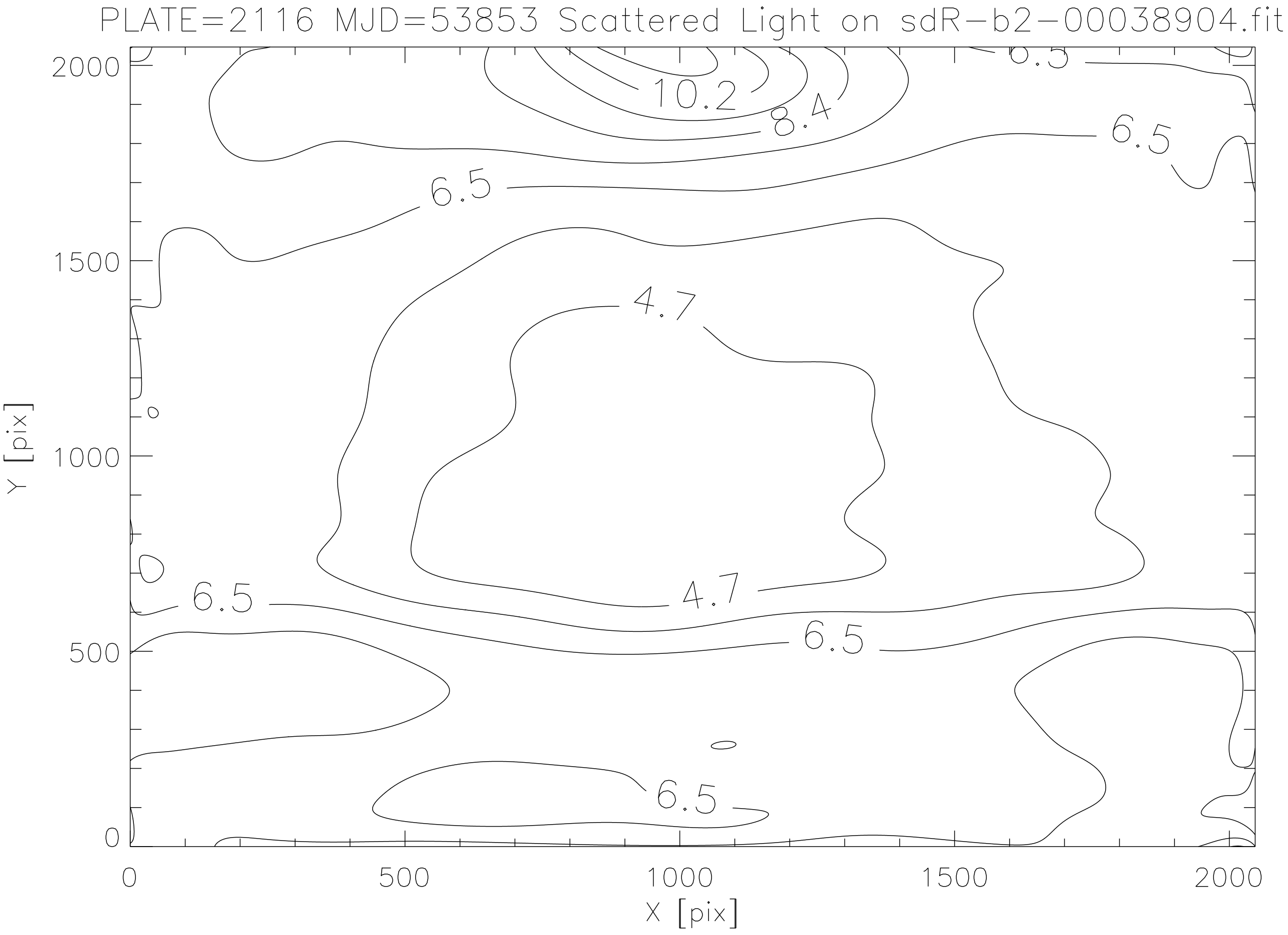


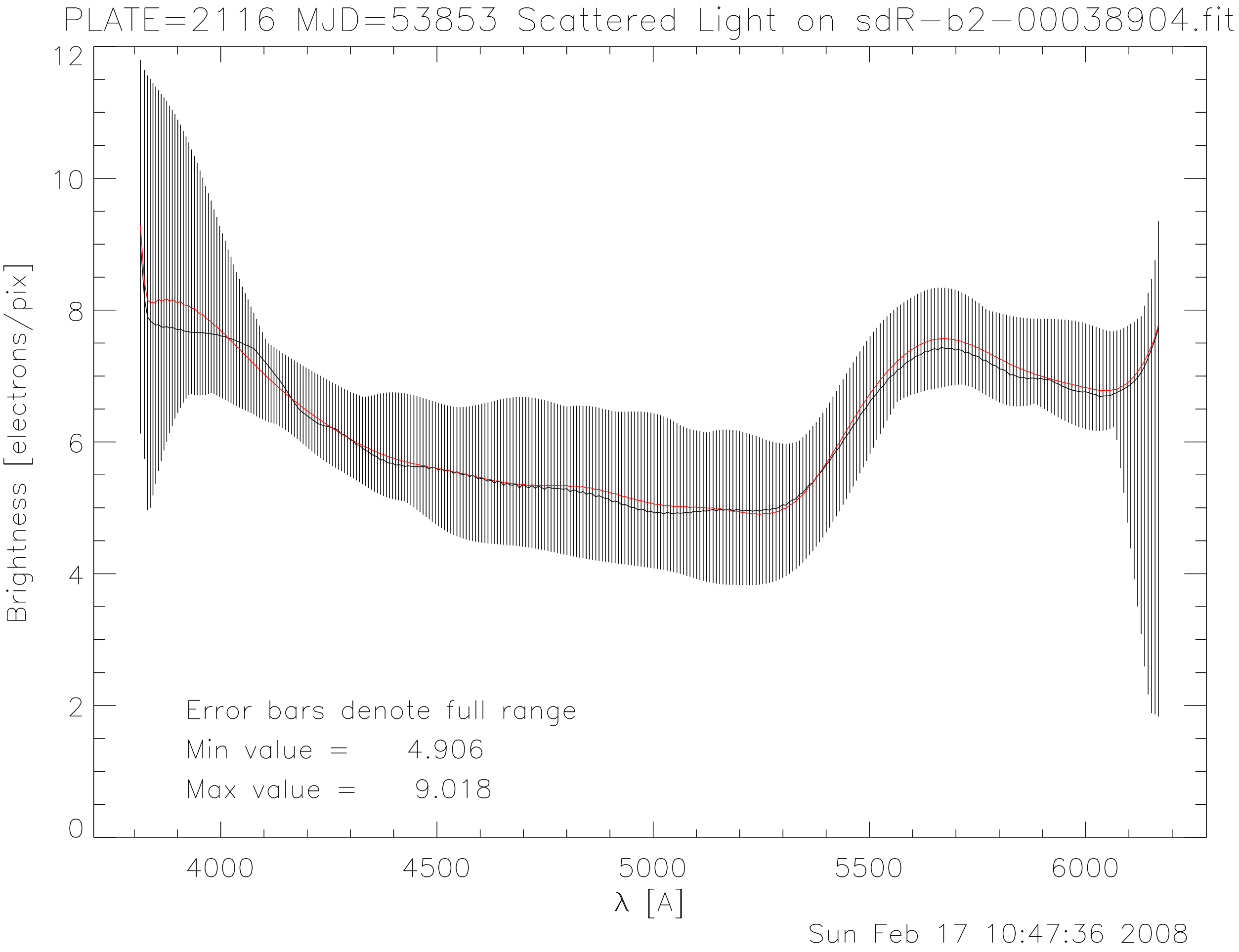
Sun Feb 17 10:43:26 2008

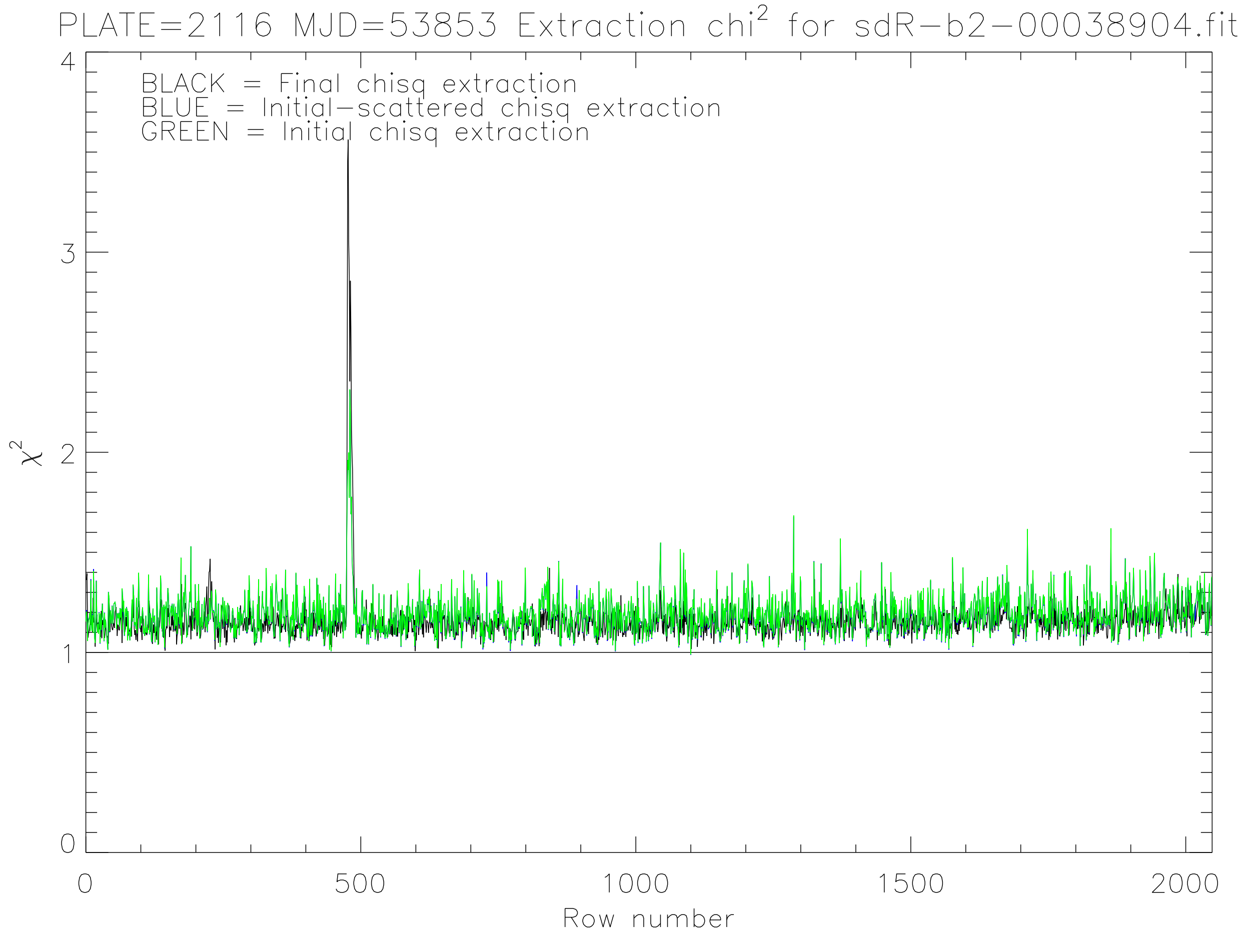


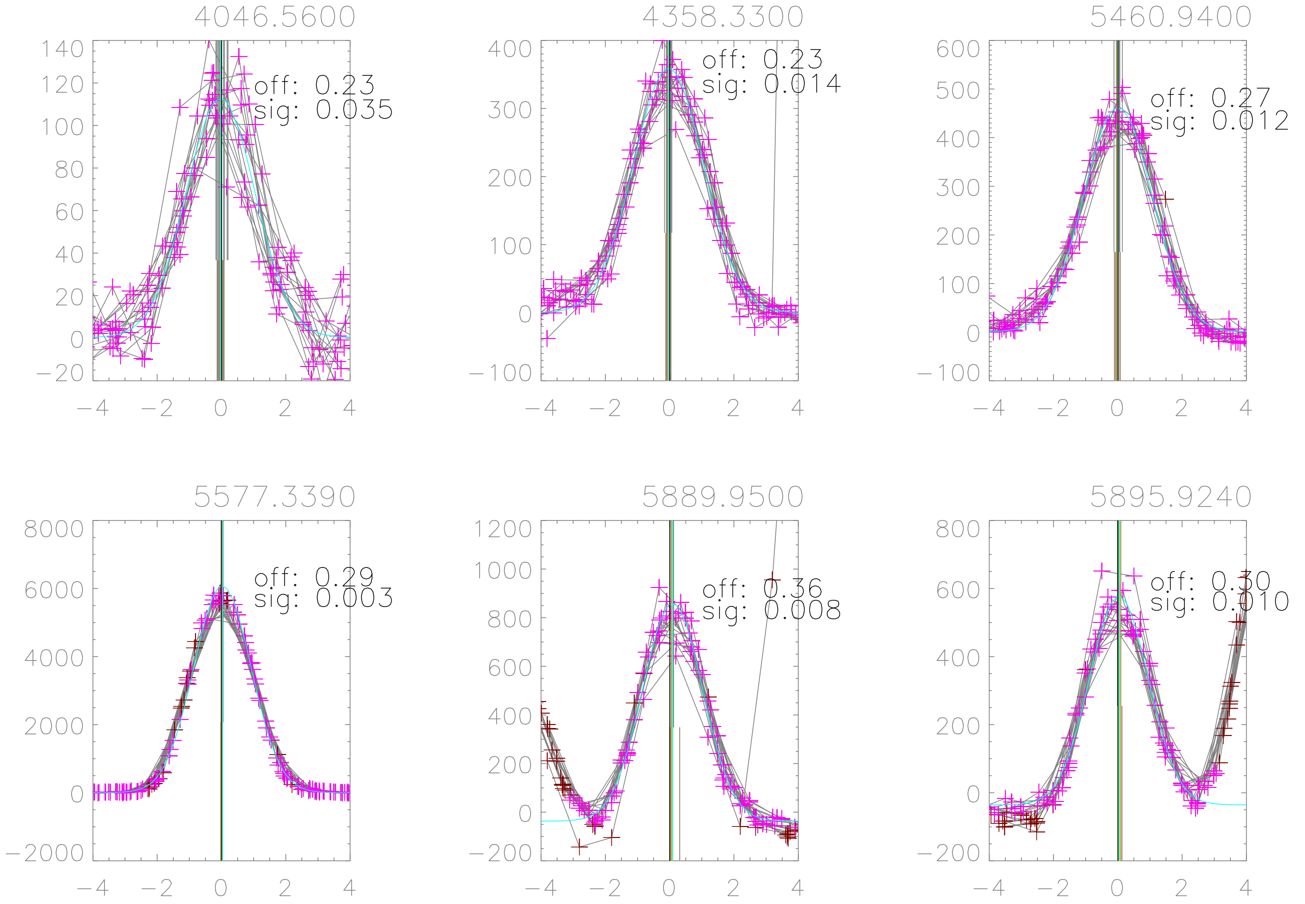
PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-b2-00038904.f

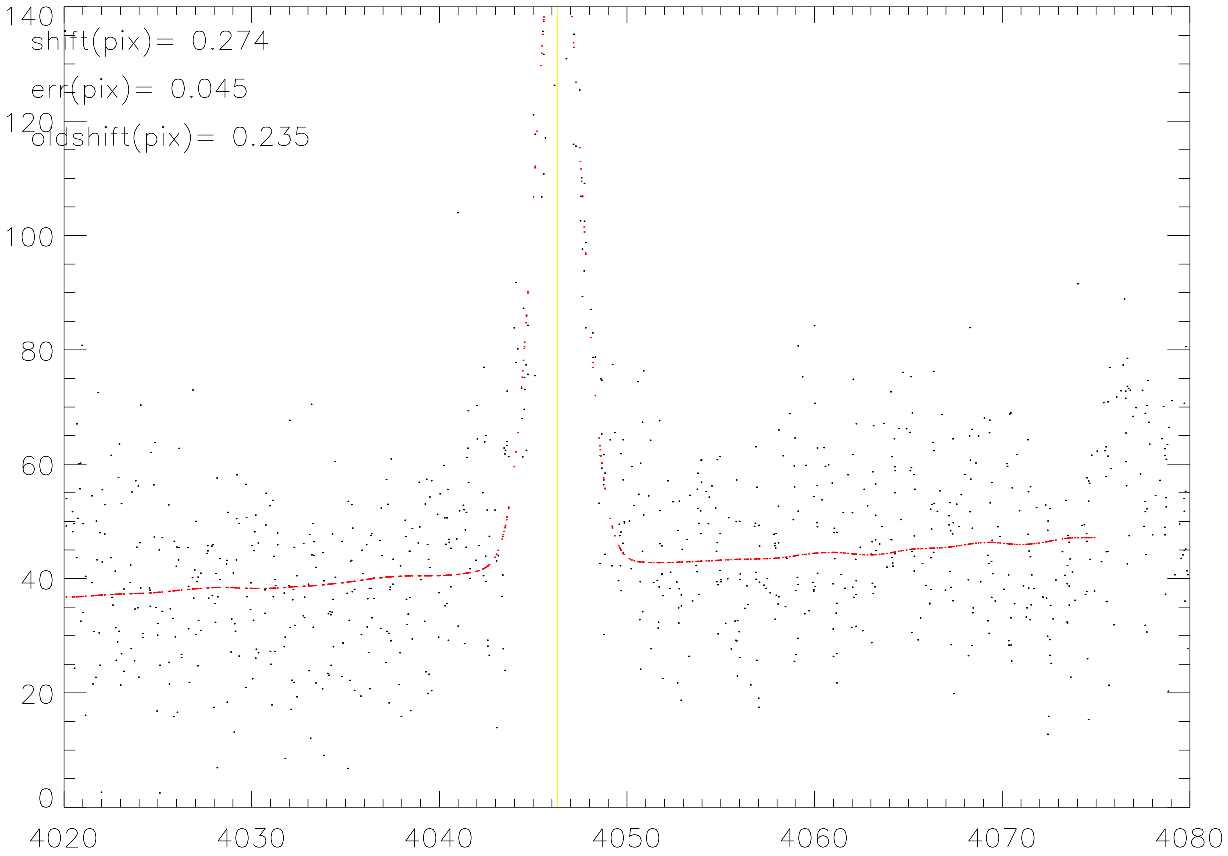

PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-b2-00038904.f
Brightness [electrons/pix]
0
5
10
15
20
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 7.166
Max value = 12.633
Sun Feb 17 10:44:21 2008


PLATE=2116 MJD=53853 Scattered Light on sdR-b2-00038904.fit
6.5
10.2
8.4
6.5
6.5
4.7
6.5
4.7
6.5
6.5
Y [pix]
X [pix]
0
500
1000
1500
2000
0
500
1000
1500
2000

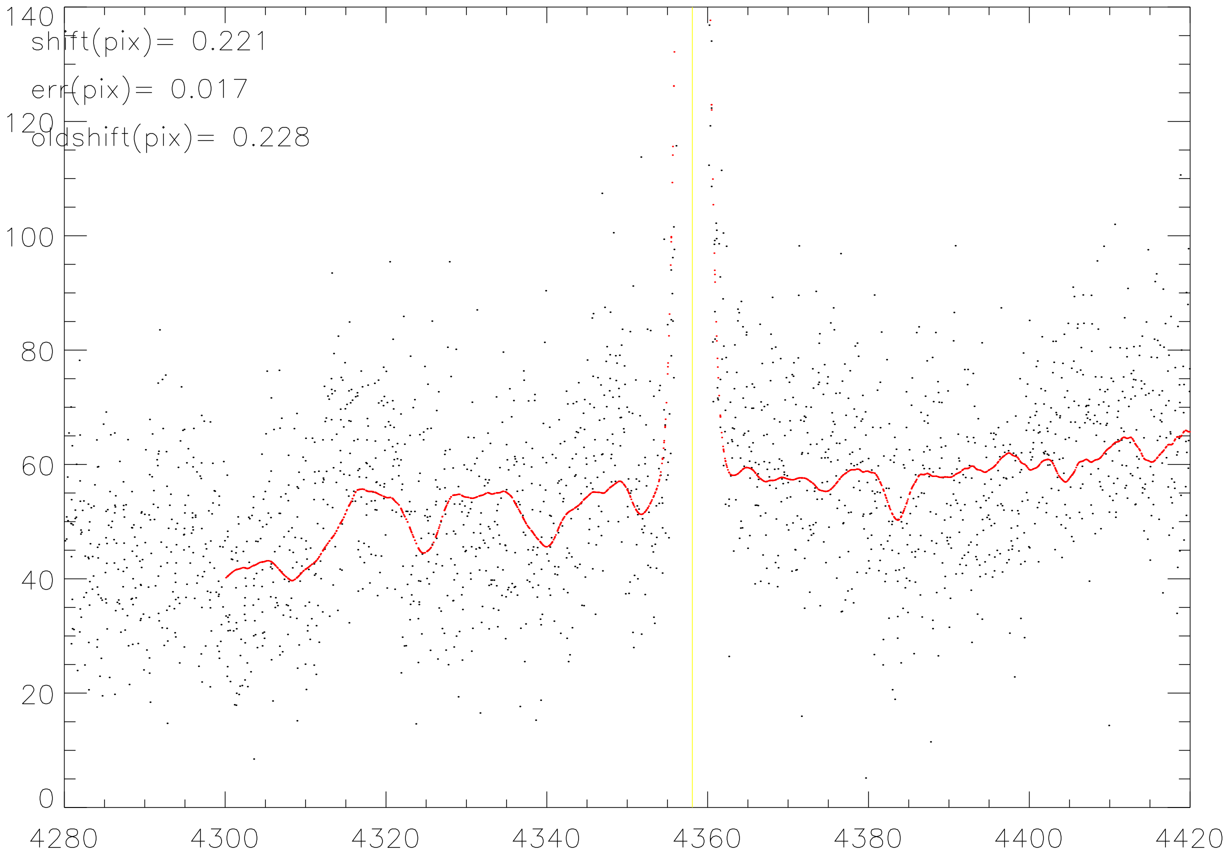

PLATE=2116 MJD=53853 Scattered Light on sdR-b2-00038904.fit
Brightness [electrons/pix]
0
2
4
6
8
10
12
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 4.906
Max value = 9.018
Sun Feb 17 10:47:36 2008

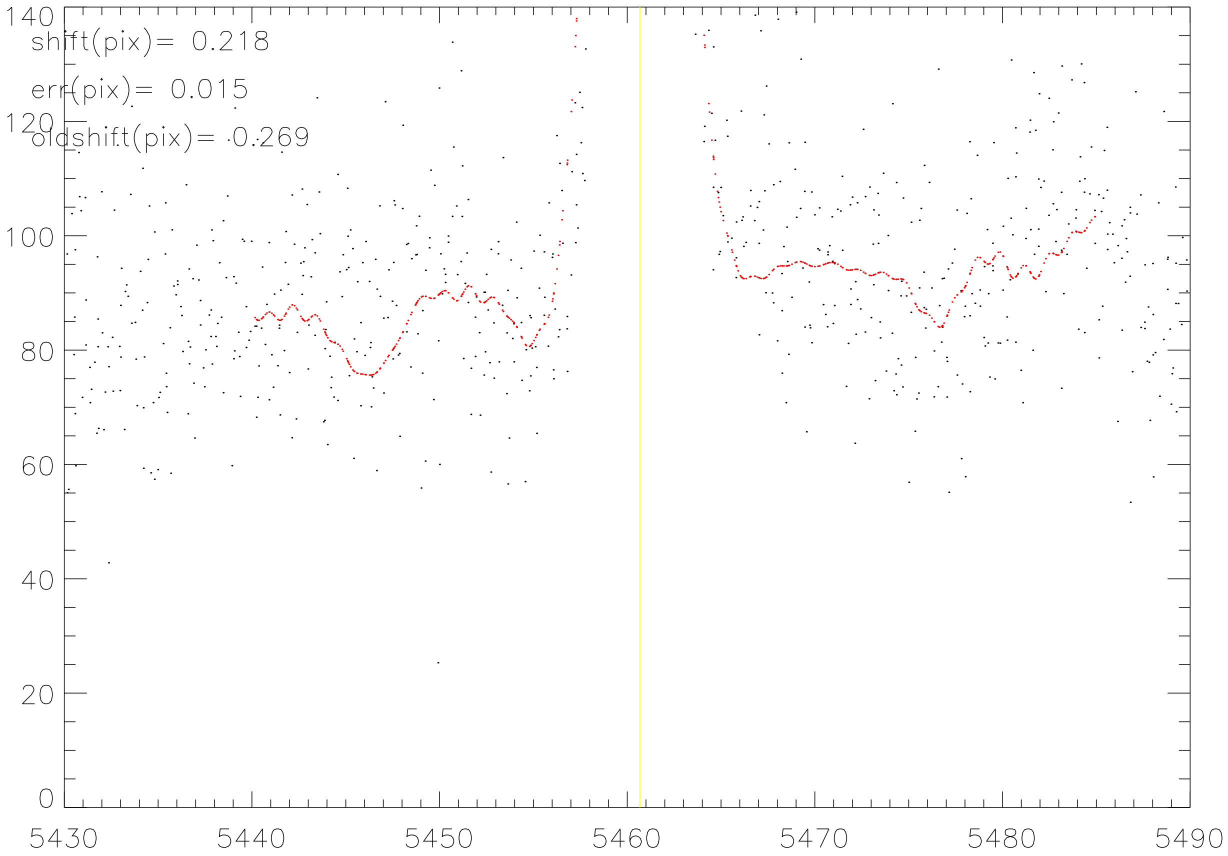

PLATE=2116 MJD=53853 Extraction chi^2 for sdR-b2-00038904.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

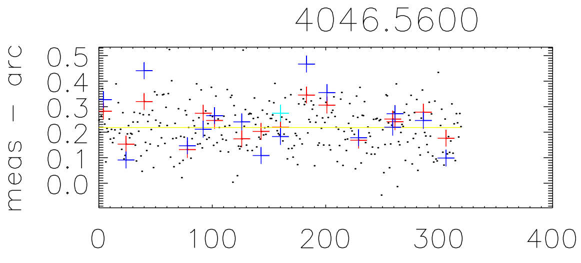

4046.5600
off: 0.23
sig: 0.035
140
120
100
80
60
40
20
0
−20
−4
−2
0
2
4
4358.3300
off: 0.23
sig: 0.014
400
300
200
100
0
−100
5460.9400
off: 0.27
sig: 0.012
600
500
400
300
200
100
0
−100
5577.3390
off: 0.29
sig: 0.003
8000
6000
4000
2000
0
−2000
5889.9500
off: 0.36
sig: 0.008
1200
1000
800
600
400
200
0
−200
5895.9240
off: 0.30
sig: 0.010
800
600
400
200
0
−200

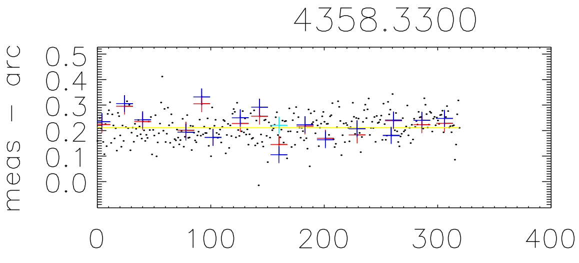


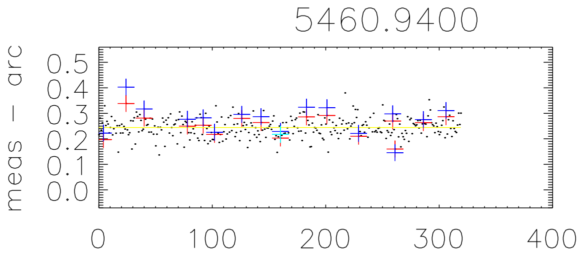
shift(pix)= 0.274
err(pix)= 0.045
oldshift(pix)= 0.235
0
20
40
60
80
100
120
140
4020
4030
4040
4050
4060
4070
4080

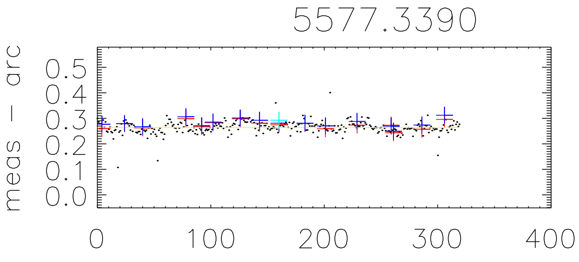

shift(pix)= 0.221
err(pix)= 0.017
oldshift(pix)= 0.228
0
20
40
60
80
100
120
140
4280
4300
4320
4340
4360
4380
4400
4420

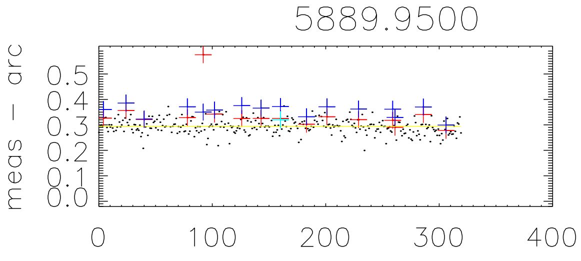

shift(pix)= 0.218
err(pix)= 0.015
oldshift(pix)= 0.269
0
20
40
60
80
100
120
140
5430
5440
5450
5460
5470
5480
5490

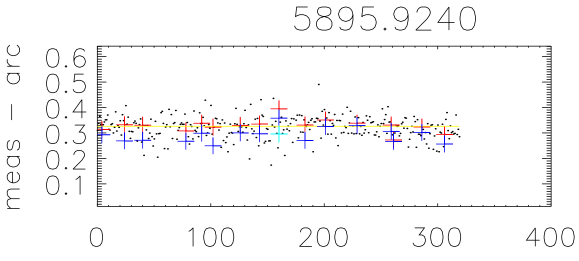

4046.5600
meas - arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

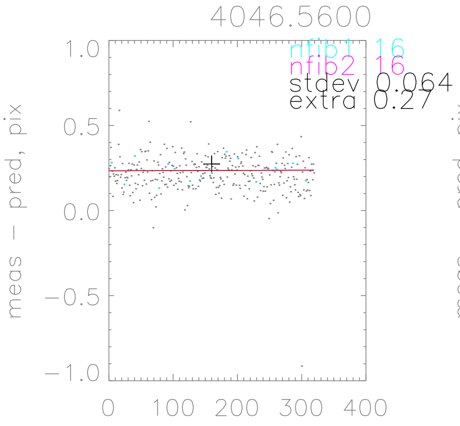

4358.3300
meas - arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

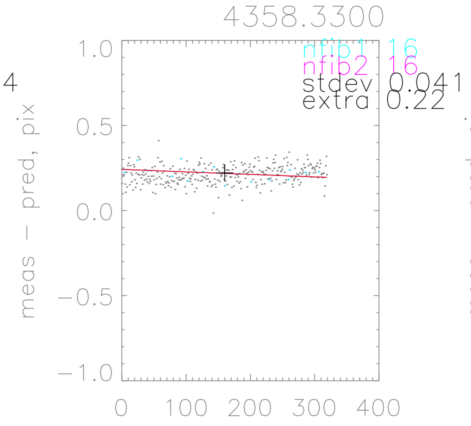

5460.9400
meas - arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

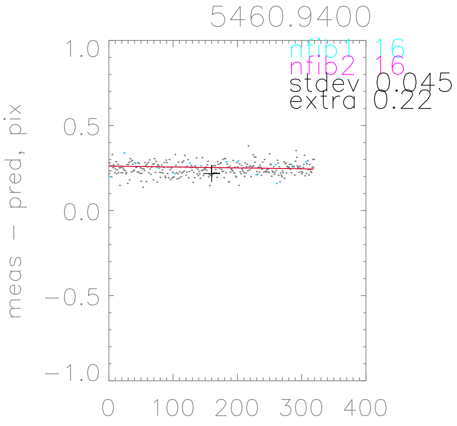

5577.3390
meas - arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

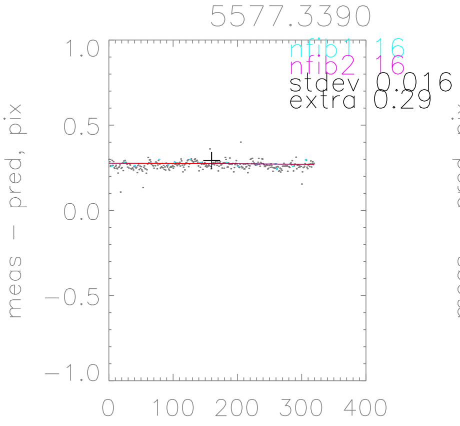

5889.9500
meas - arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

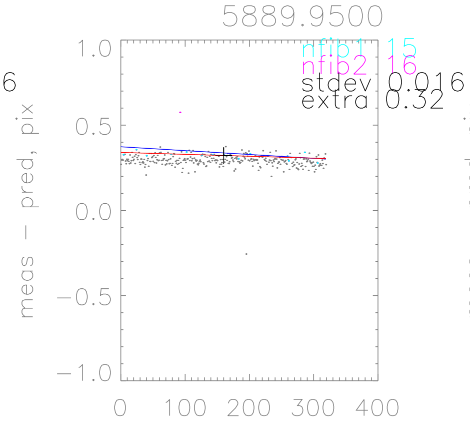

5895.9240
meas - arc
0.6
0.5
0.4
0.3
0.2
0.1
0
100
200
300
400

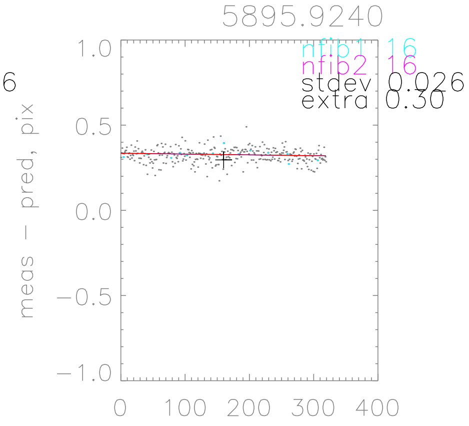

4046.5600
nfib1 16
nfib2 16
stdev 0.064
extra 0.27
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

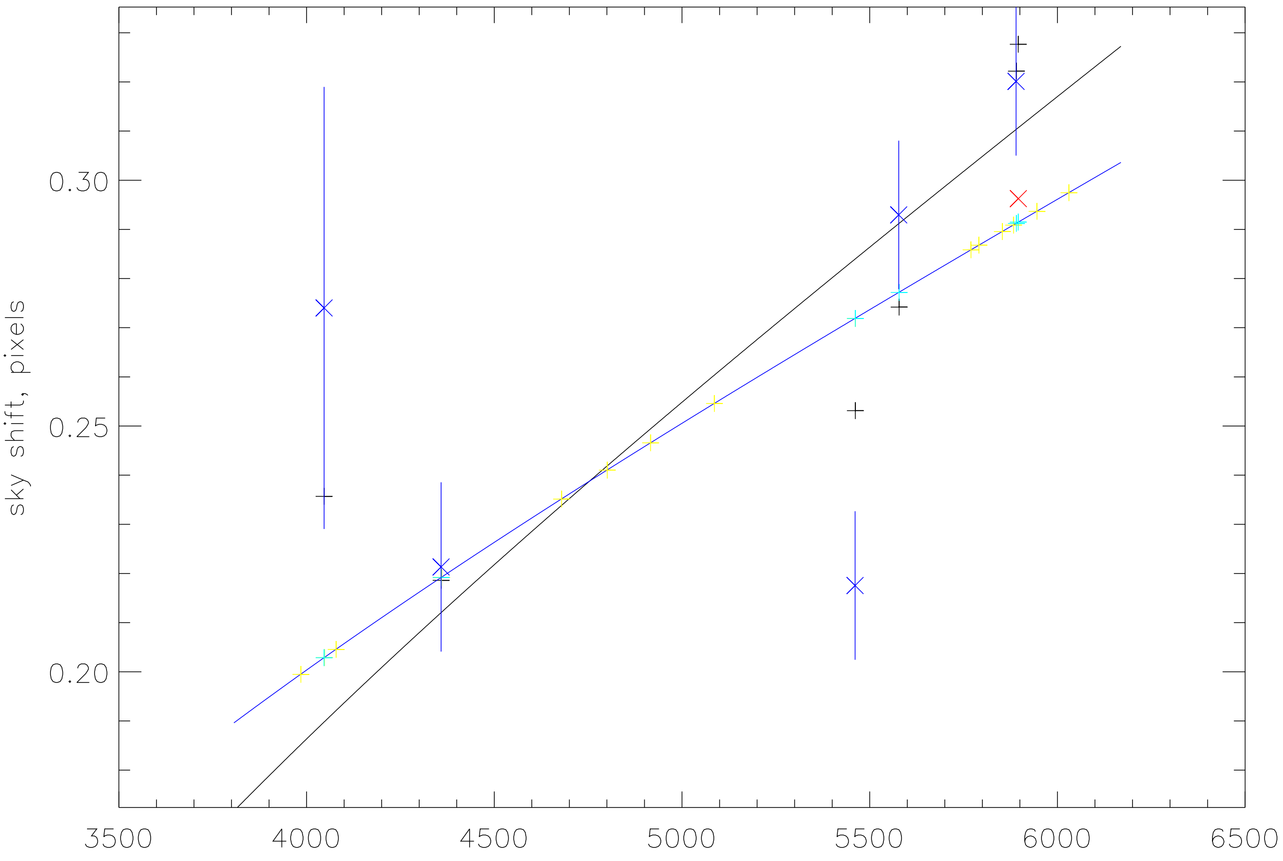

4358.3300
nfib1 16
nfib2 16
stdev 0.041
extra 0.22
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

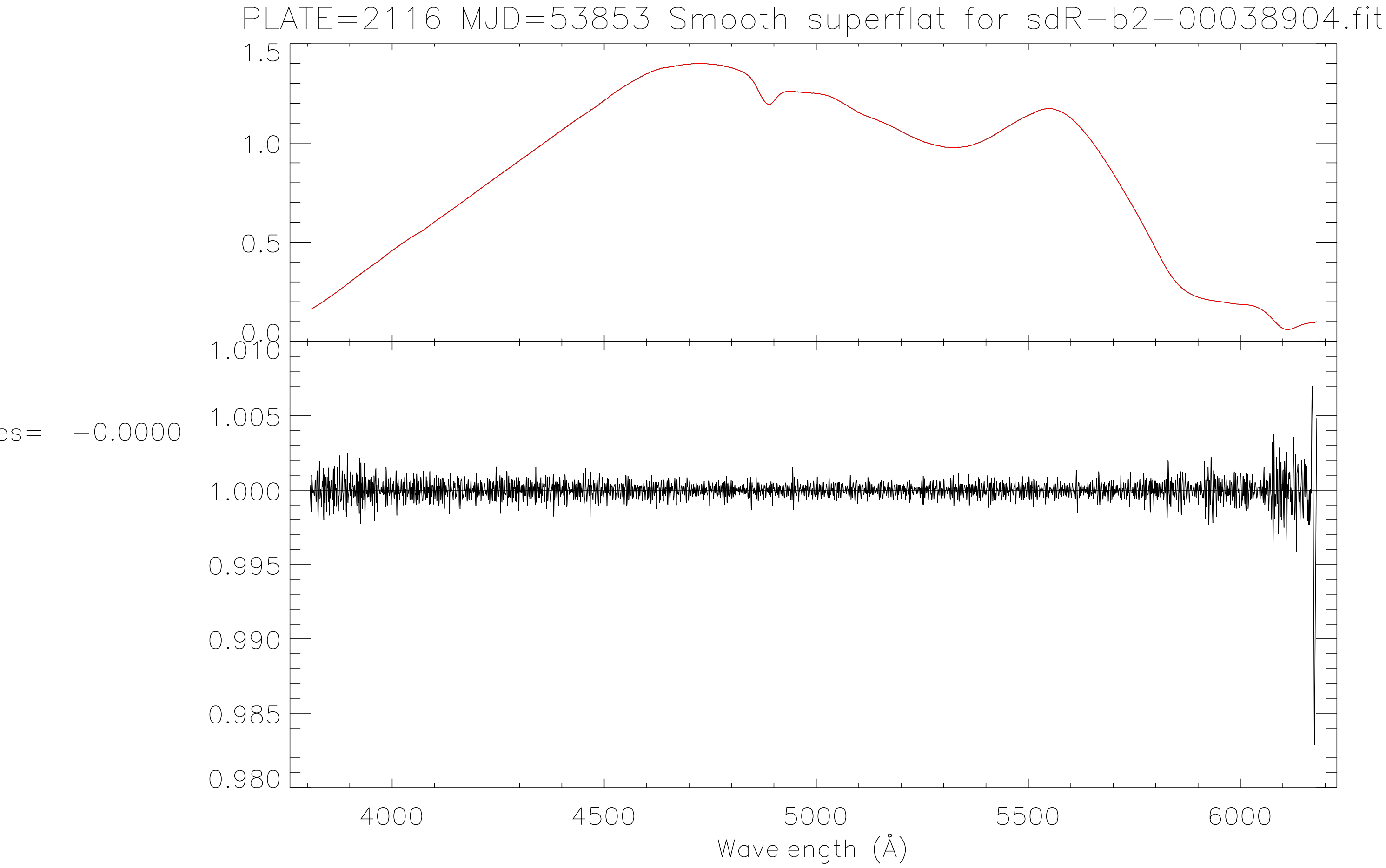

5460.9400
nfib1 16
nfib2 16
stdev 0.045
extra 0.22
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

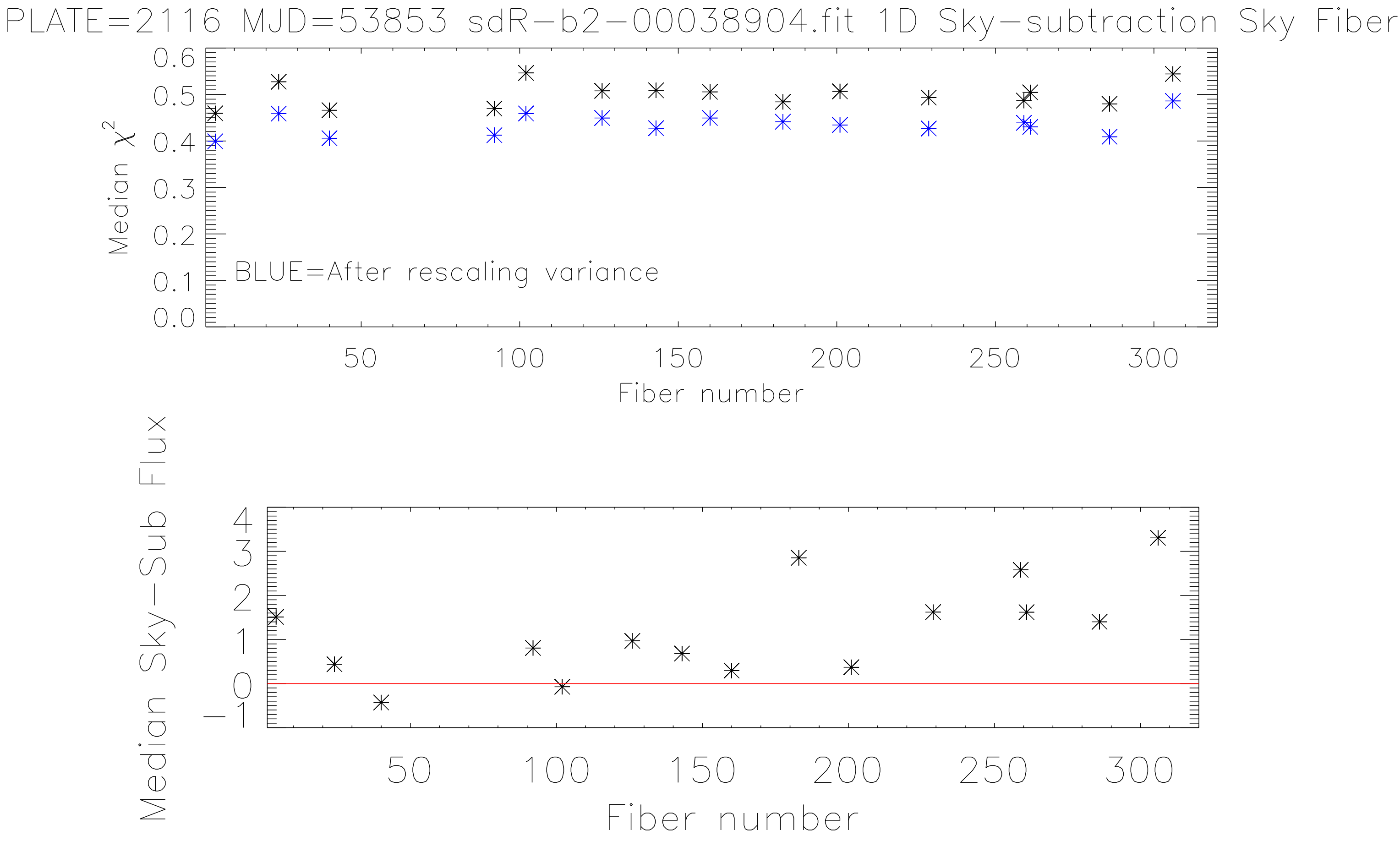

5577.3390
nfib1 16
nfib2 16
stdev 0.016
extra 0.29
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


5889.9500
nfib1 15
nfib2 16
stdev 0.016
extra 0.32
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

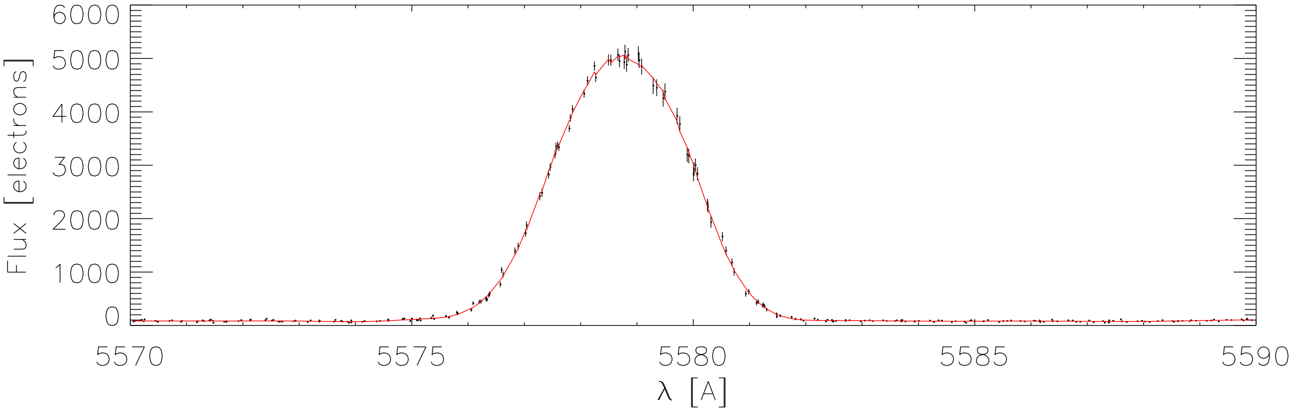

5895.9240
nfib1 16
nfib2 16
stdev 0.026
extra 0.30
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


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

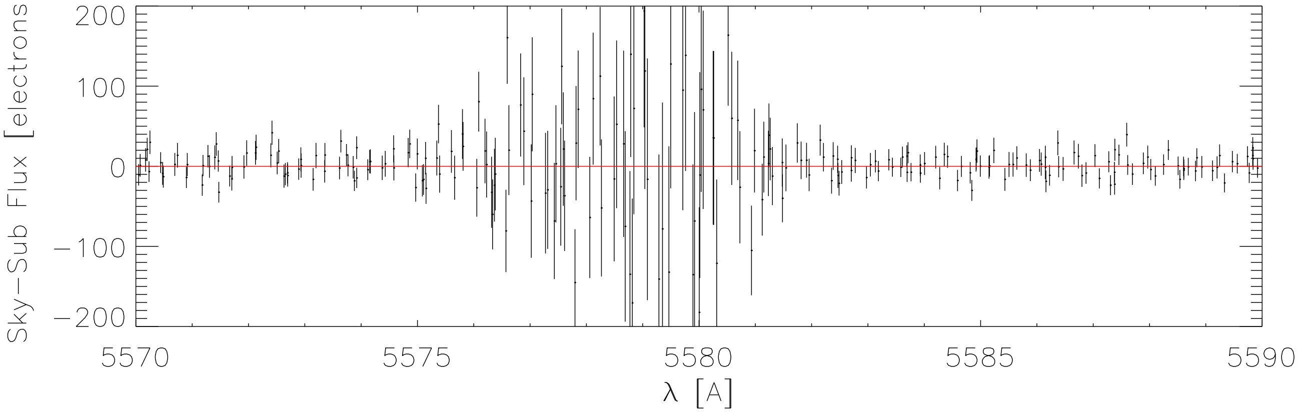

PLATE=2116 MJD=53853 Smooth superflat for sdR-b2-00038904.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
0.985
0.980
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)


PLATE=2116 MJD=53853 sdR-b2-00038904.fit 1D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
Fiber number
0.0
0.1
0.2
0.3
0.4
0.5
0.6
50
100
150
200
250
300
Median Sky-Sub Flux
Fiber number
-1
0
1
2
3
4
50
100
150
200
250
300

PLATE=2116 MJD=53853 sdR-b2-00038904.fit 1D Sky-subtraction Sky Fibers

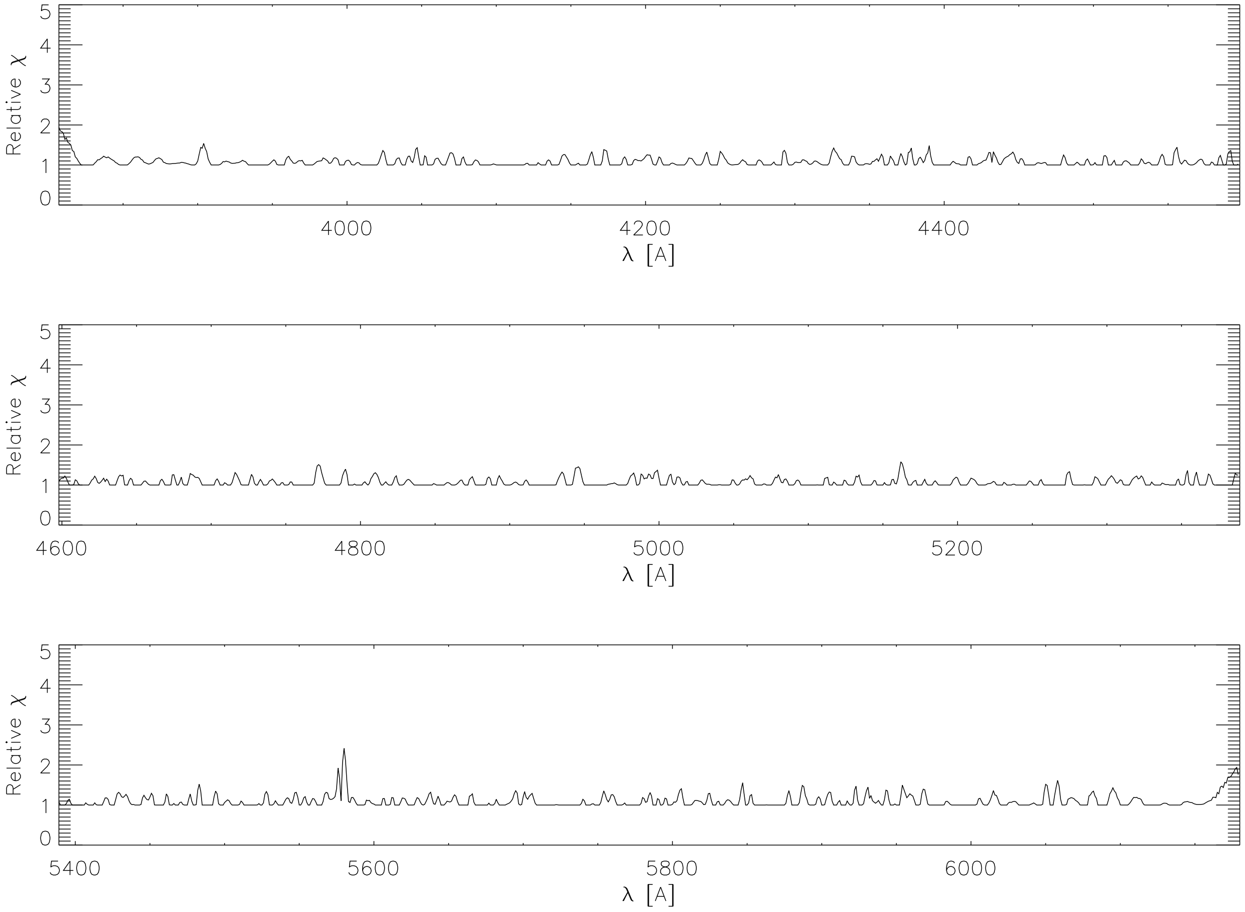


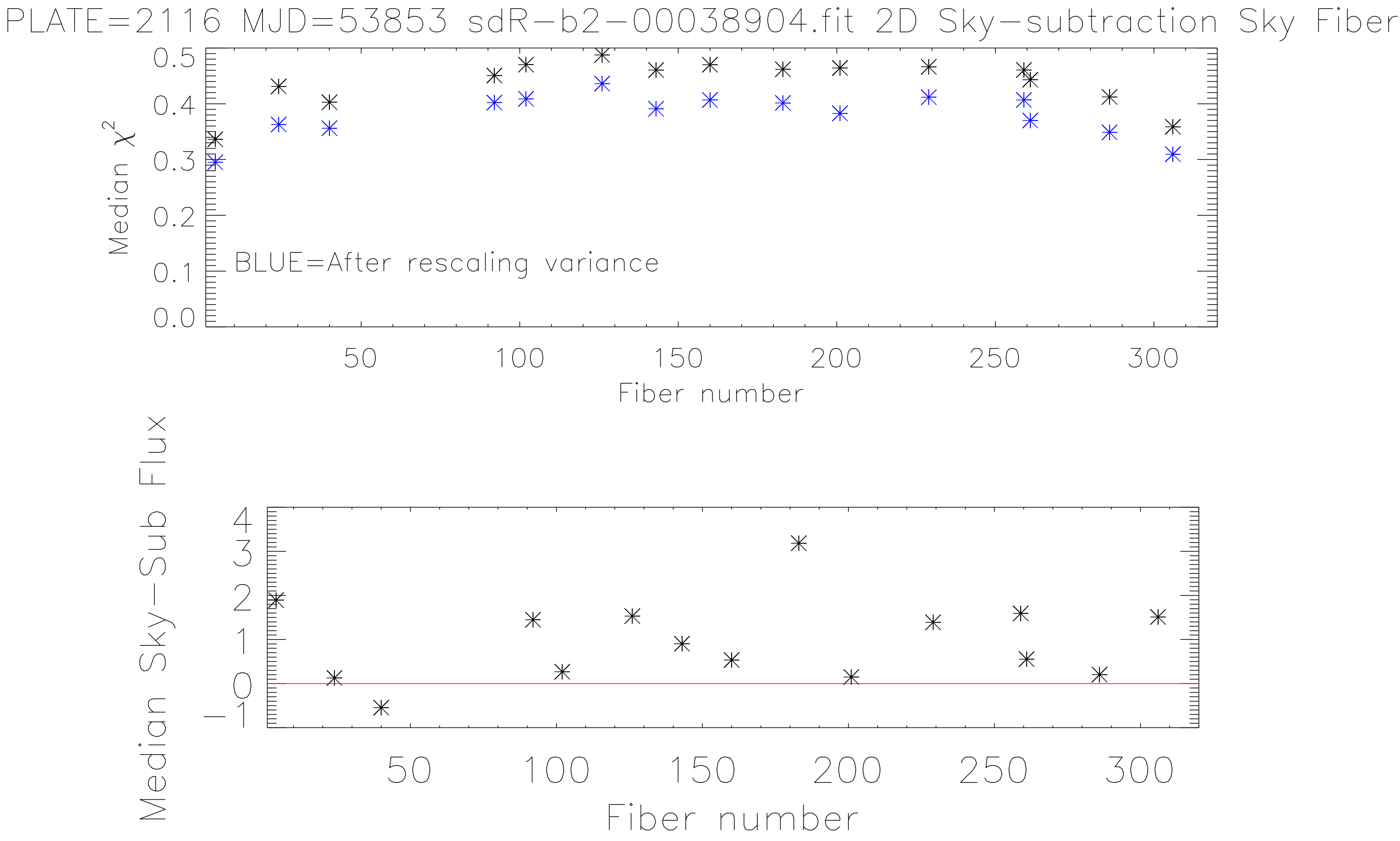
PLATE=2116 MJD=53853 sdR-b2-00038904.fit 1D Sky-subtraction Sky-subtracted Sky F

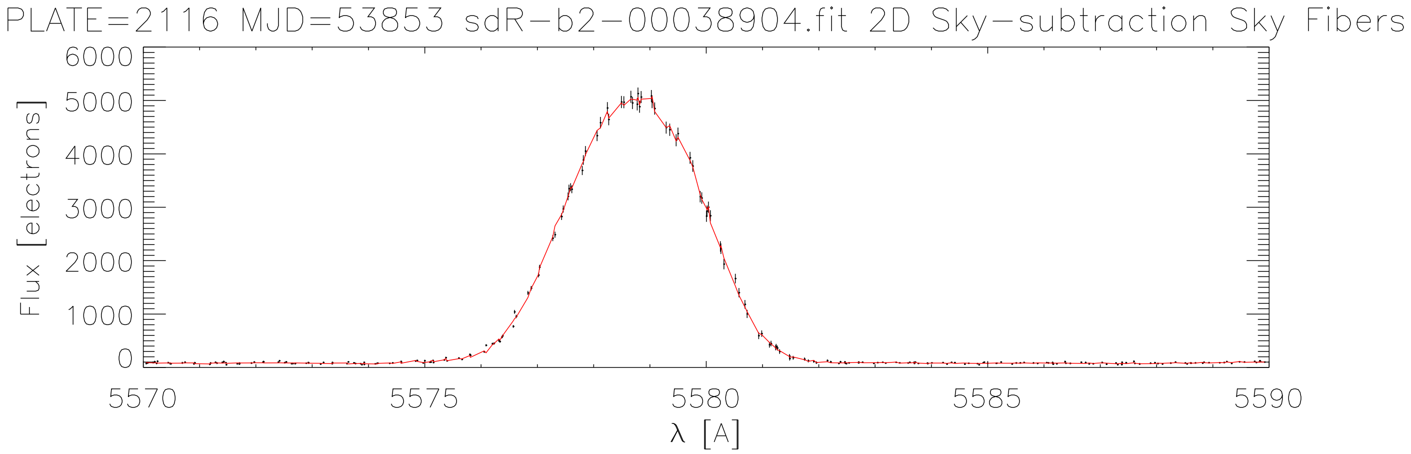


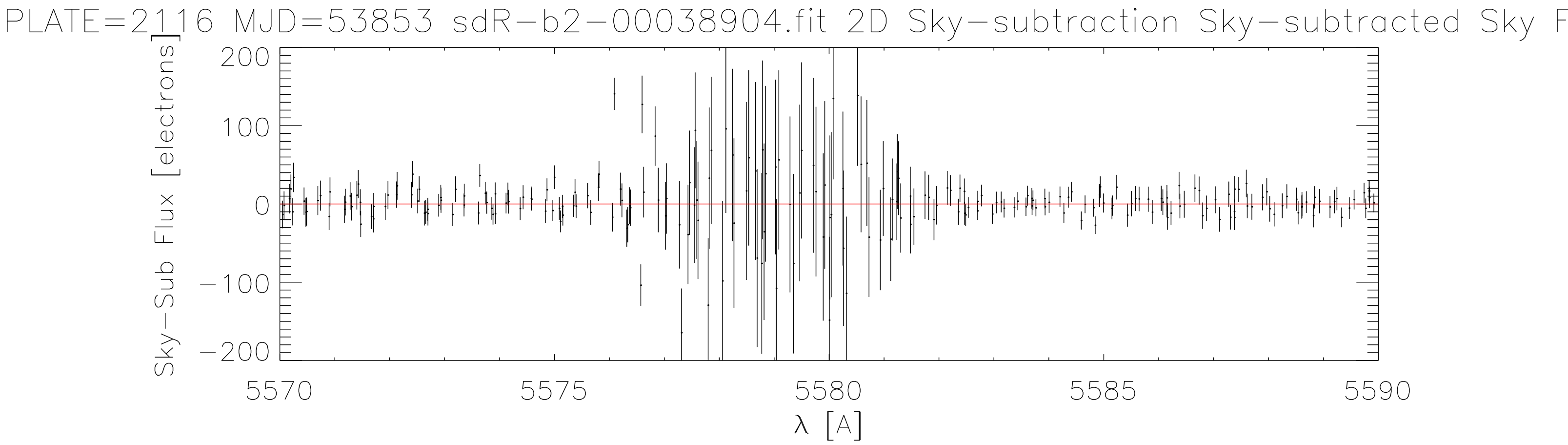
Number of sky fibers = 15

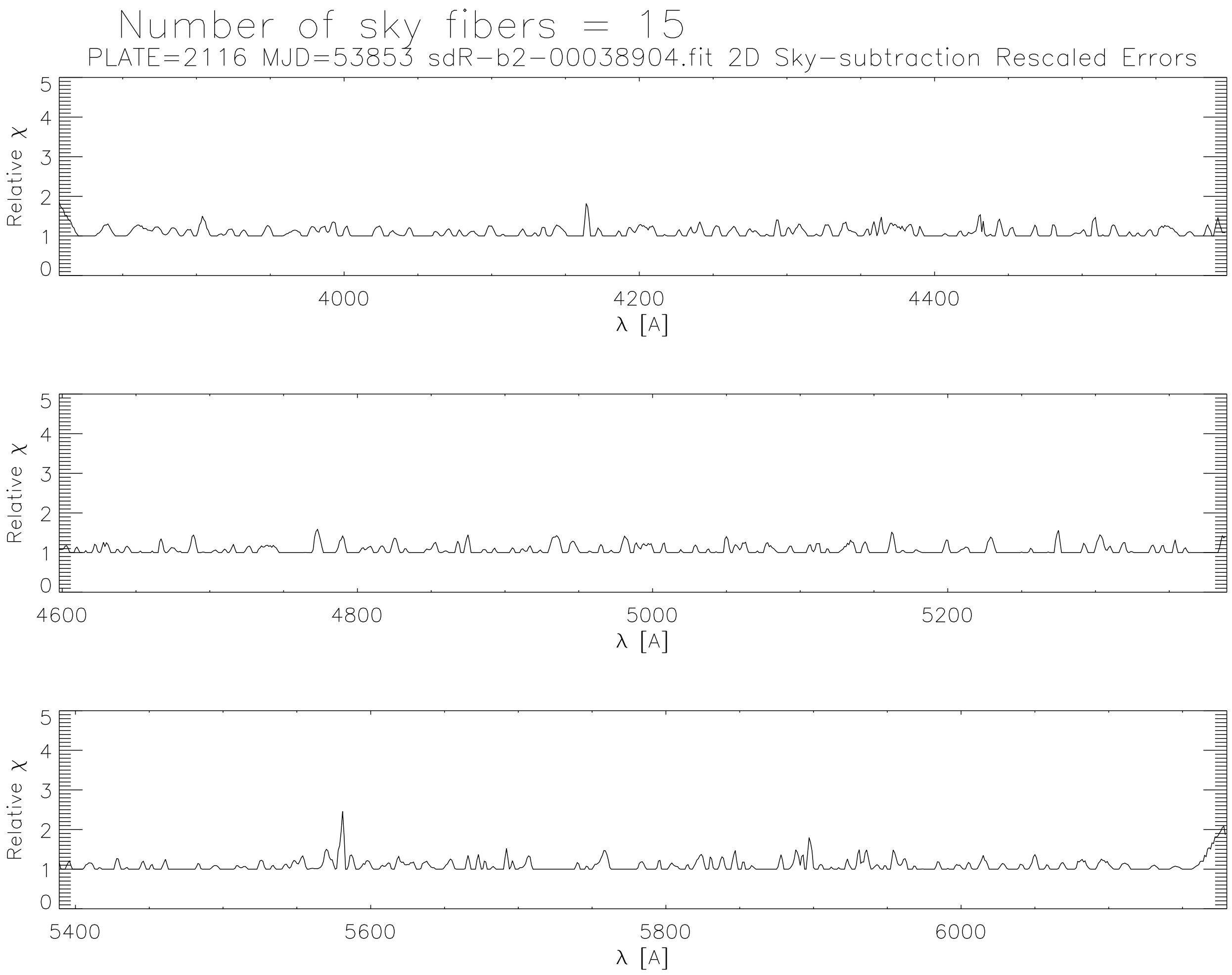
PLATE=2116 MJD=53853 sdR-b2-00038904.fit 1D Sky-subtraction Rescaled Errors

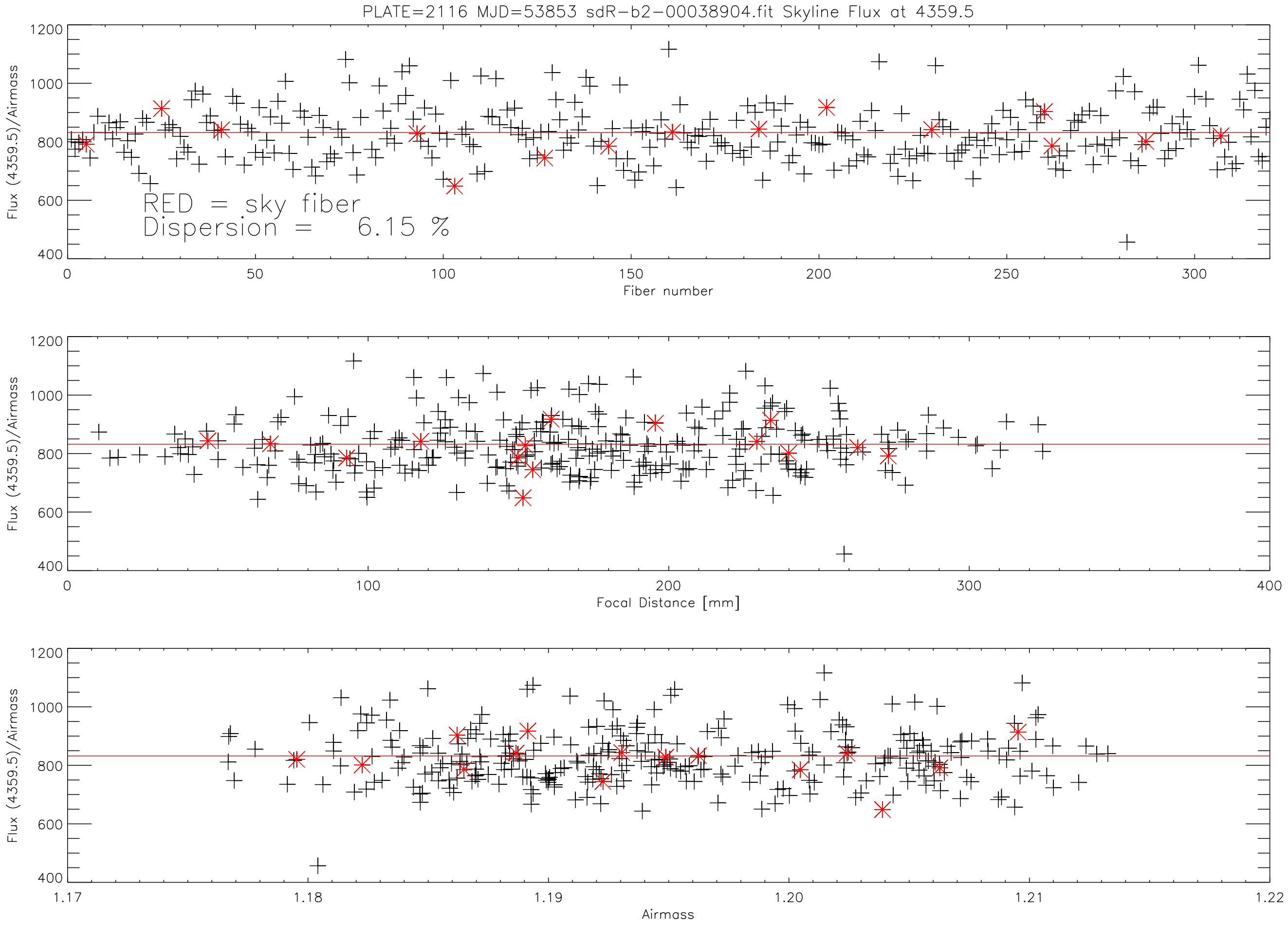


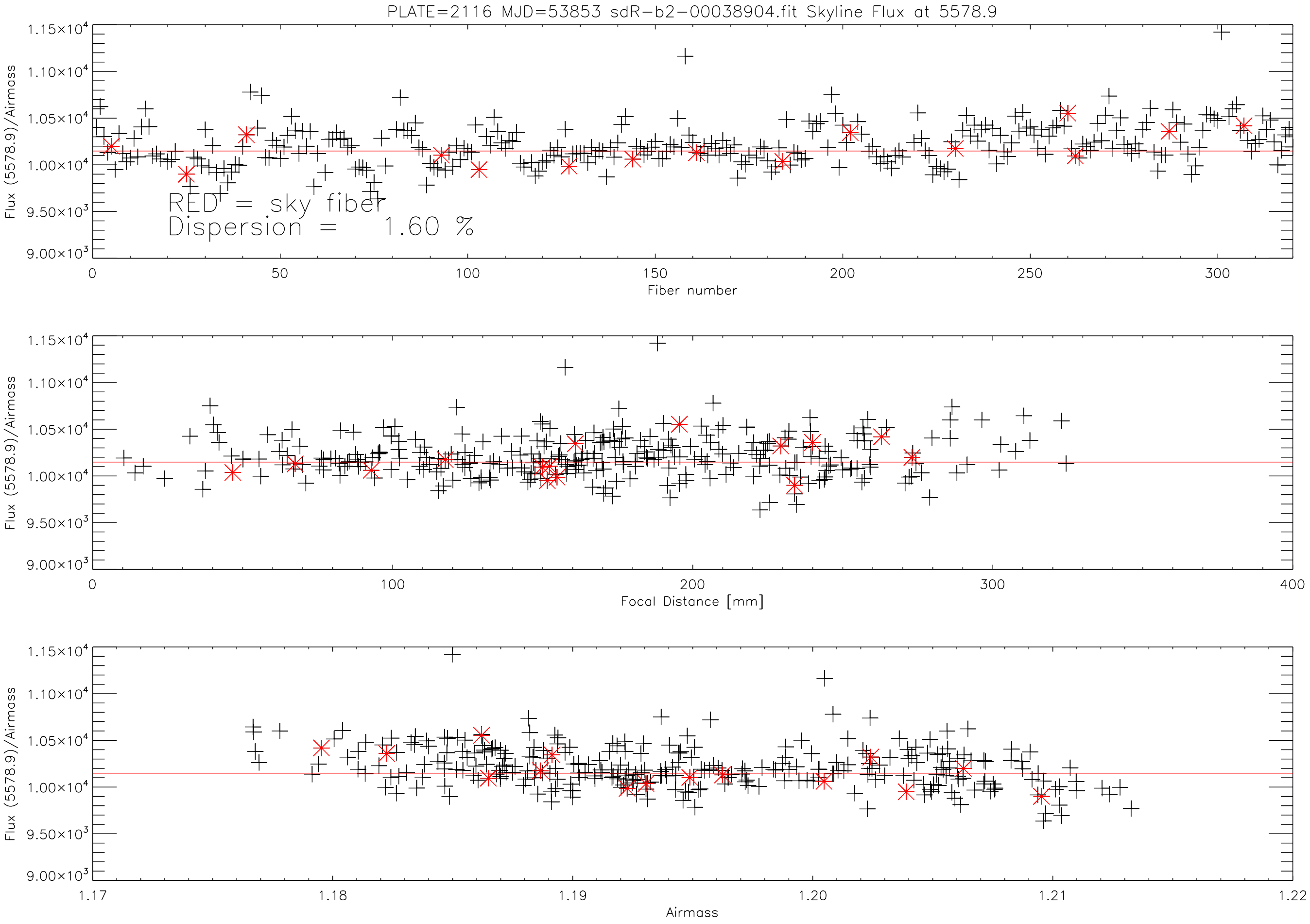

PLATE=2116 MJD=53853 sdR-b2-00038904.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-1
0
1
2
3
4
50
100
150
200
250
300
Fiber number

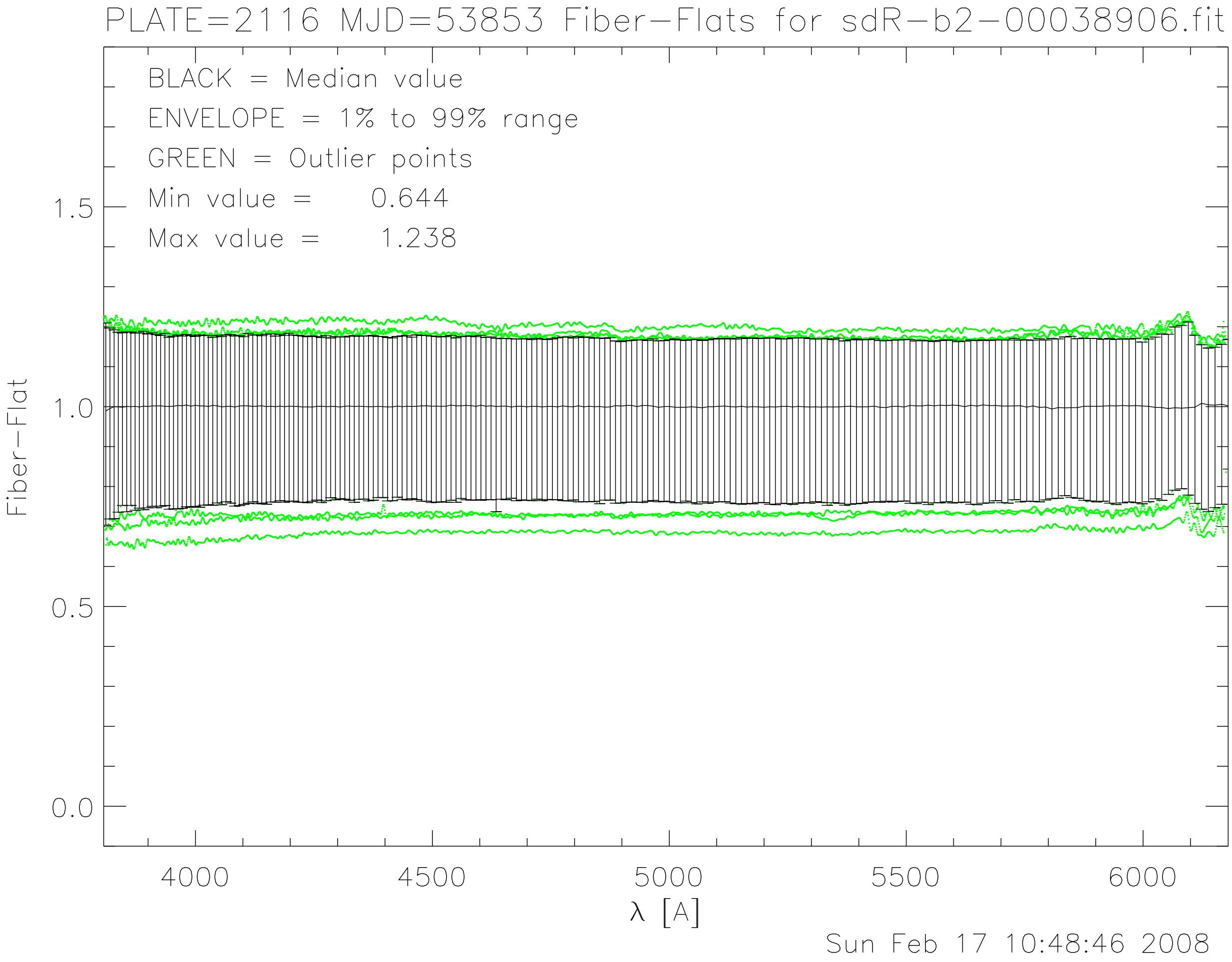

PLATE=2116 MJD=53853 sdR-b2-00038904.fit 2D Sky-subtraction Sky Fibers

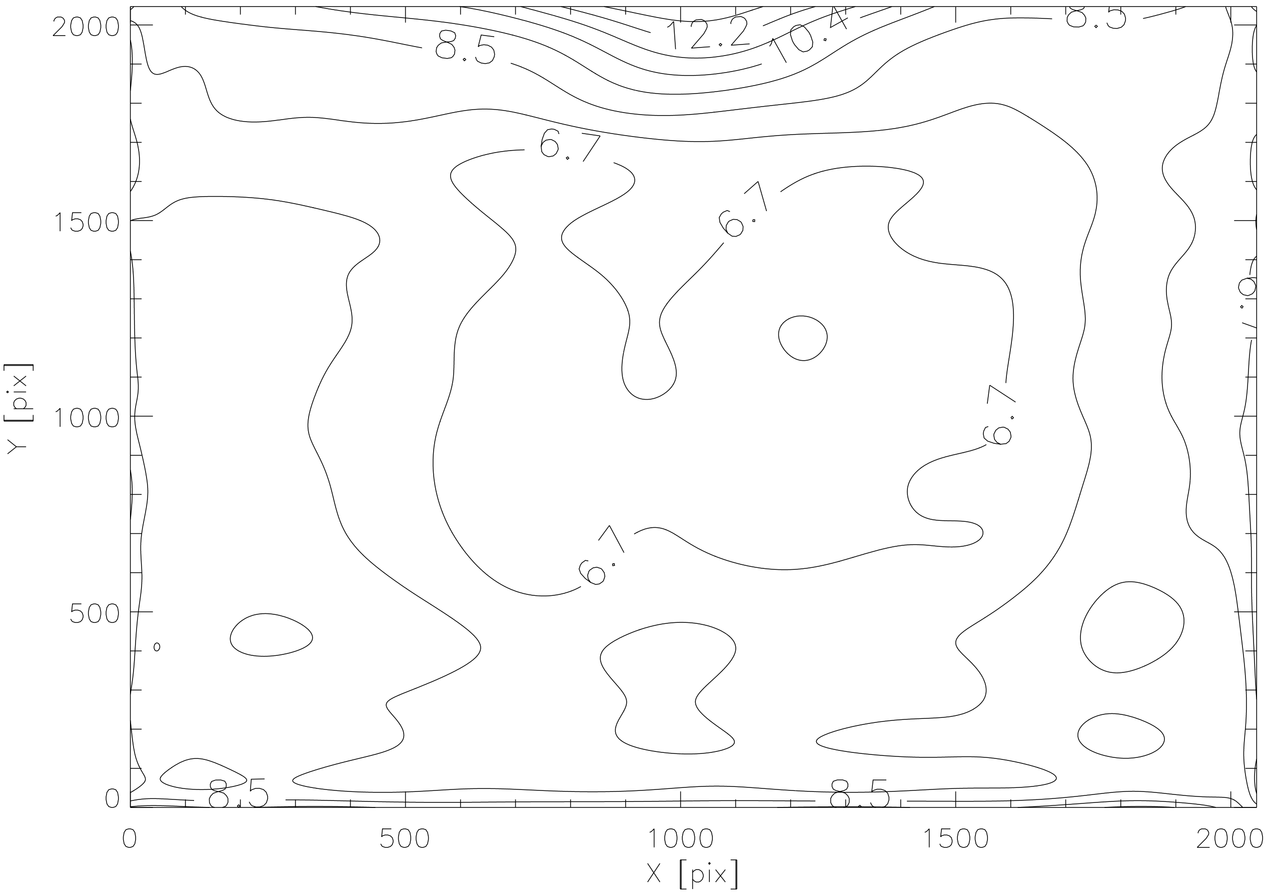

PLATE=2116 MJD=53853 sdR-b2-00038904.fit 2D Sky-subtraction Sky-subtracted Sky F


Number of sky fibers = 15
PLATE=2116 MJD=53853 sdR-b2-00038904.fit 2D Sky-subtraction Rescaled Errors
Relative χ
0
1
2
3
4
5
4000
4200
4400
λ [A]
Relative χ
0
1
2
3
4
5
4600
4800
5000
5200
λ [A]
Relative χ
0
1
2
3
4
5
5400
5600
5800
6000
λ [A]


PLATE=2116 MJD=53853 sdR-b2-00038904.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
1200
1000
800
600
400
RED = sky fiber
Dispersion = 6.15 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
1200
1000
800
600
400
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
1200
1000
800
600
400
1.17
1.18
1.19
1.20
1.21
1.22
Airmass

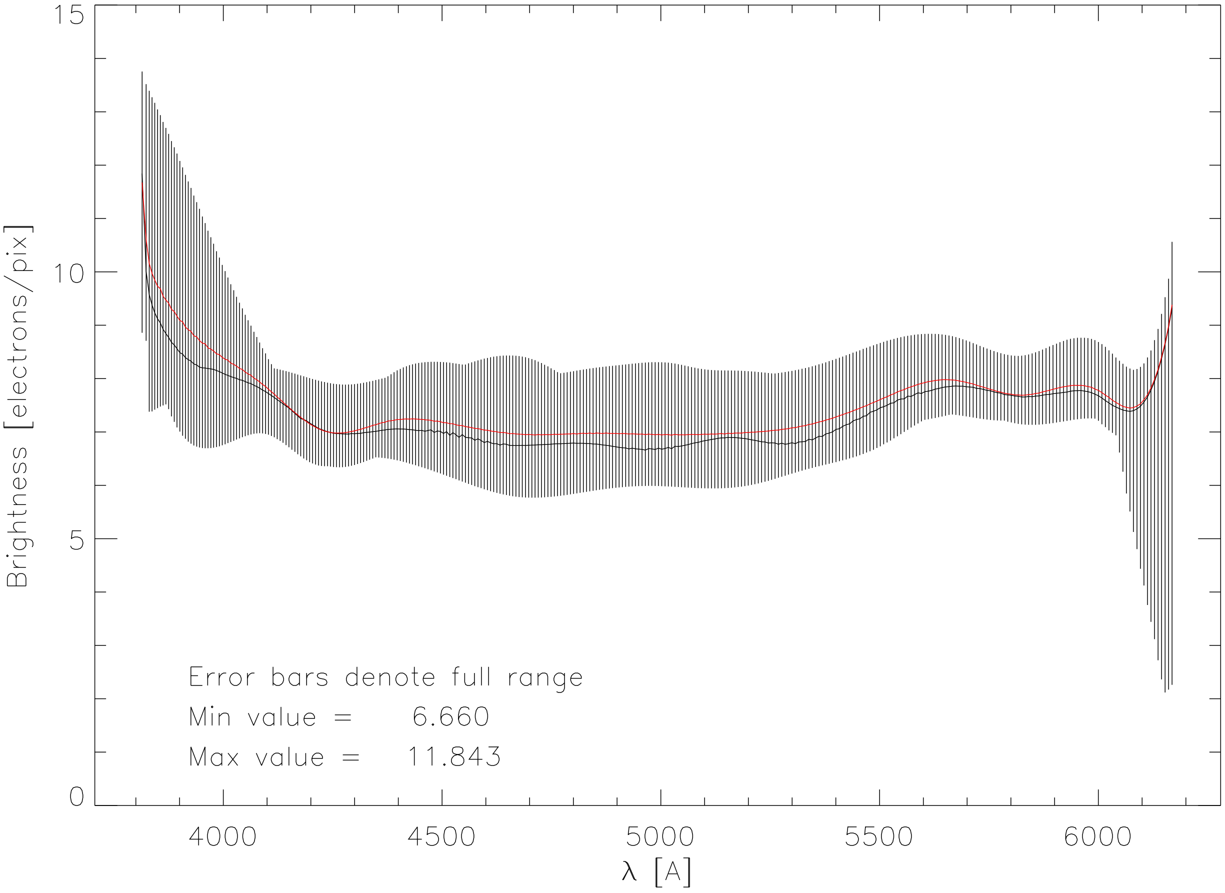

PLATE=2116 MJD=53853 sdR-b2-00038904.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.15×10^4
1.10×10^4
1.05×10^4
1.00×10^4
9.50×10^3
9.00×10^3
RED = sky fiber
Dispersion = 1.60 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.17
1.18
1.19
1.20
1.21
1.22
Airmass


PLATE=2116 MJD=53853 Fiber−Flats for sdR−b2−00038906.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.644
Max value = 1.238
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Sun Feb 17 10:48:46 2008

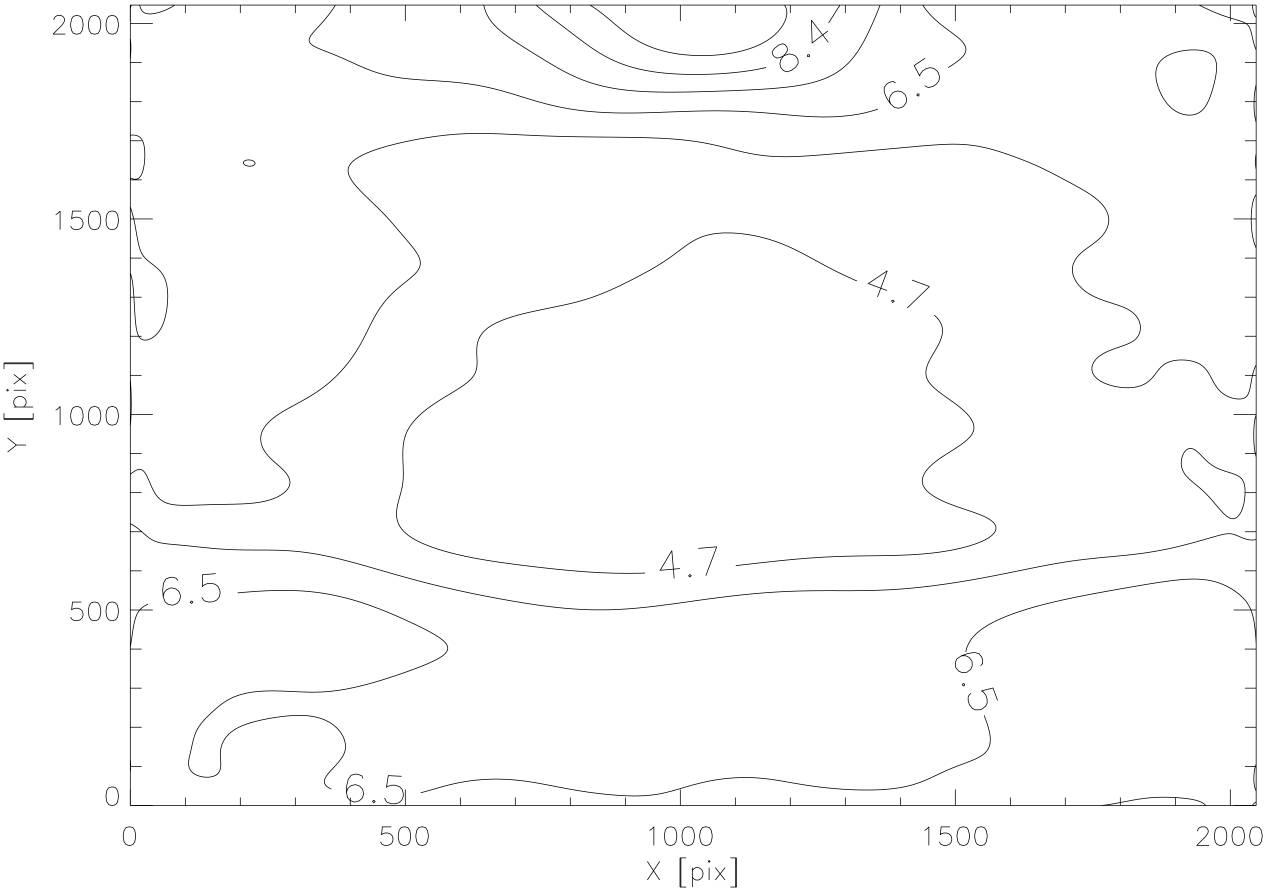


PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-b2-00038905.f

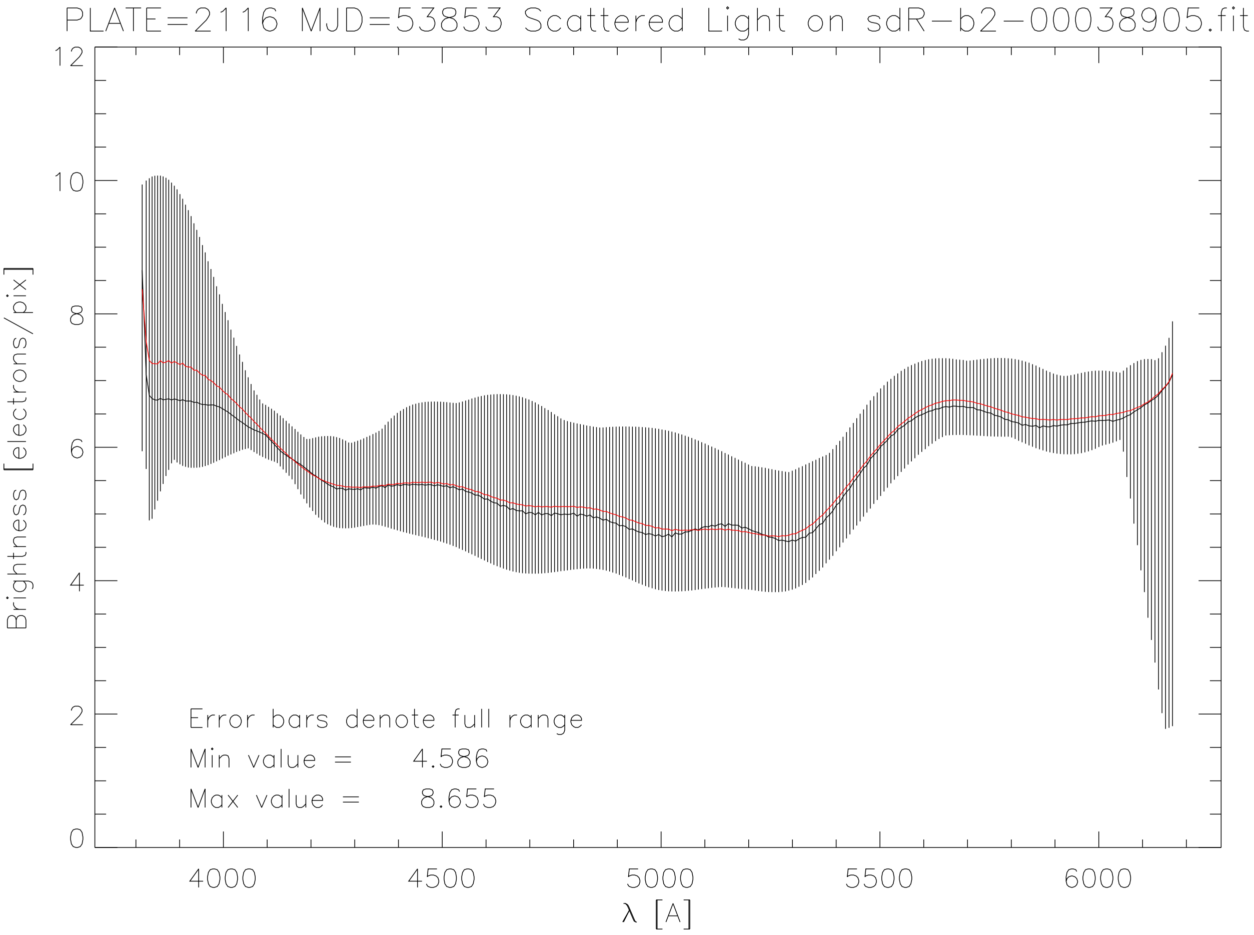
PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-b2-00038905.f



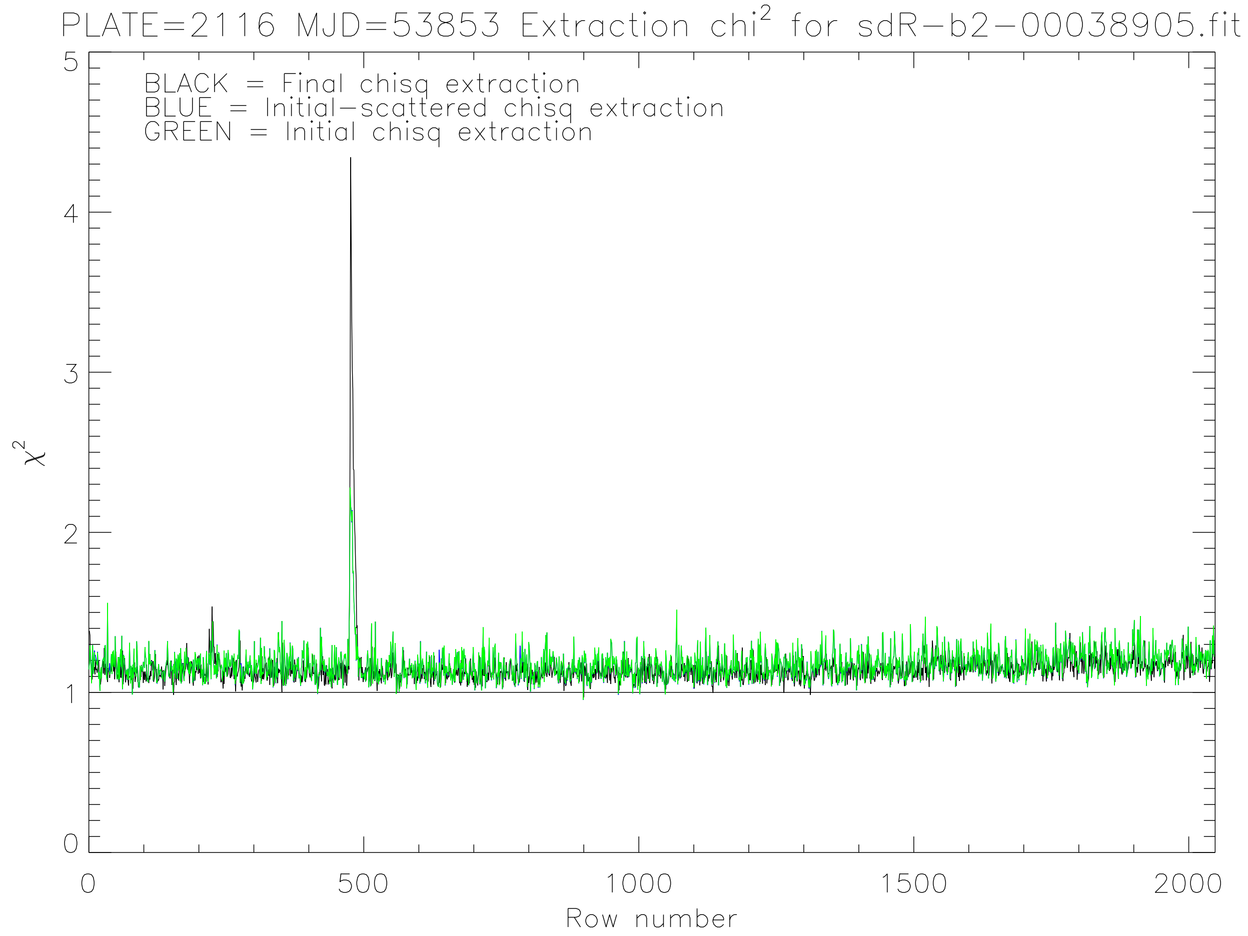
Sun Feb 17 10:49:41 2008

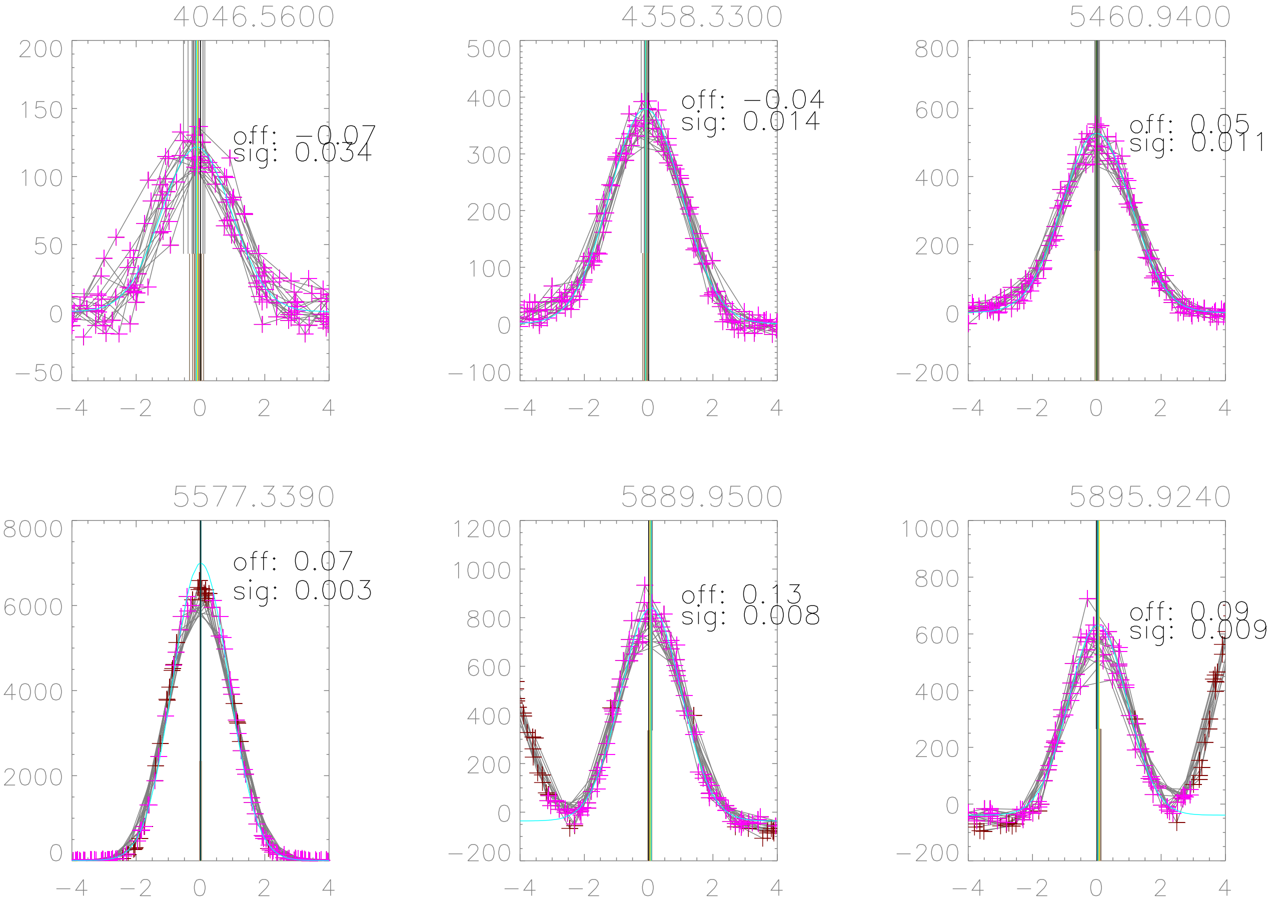


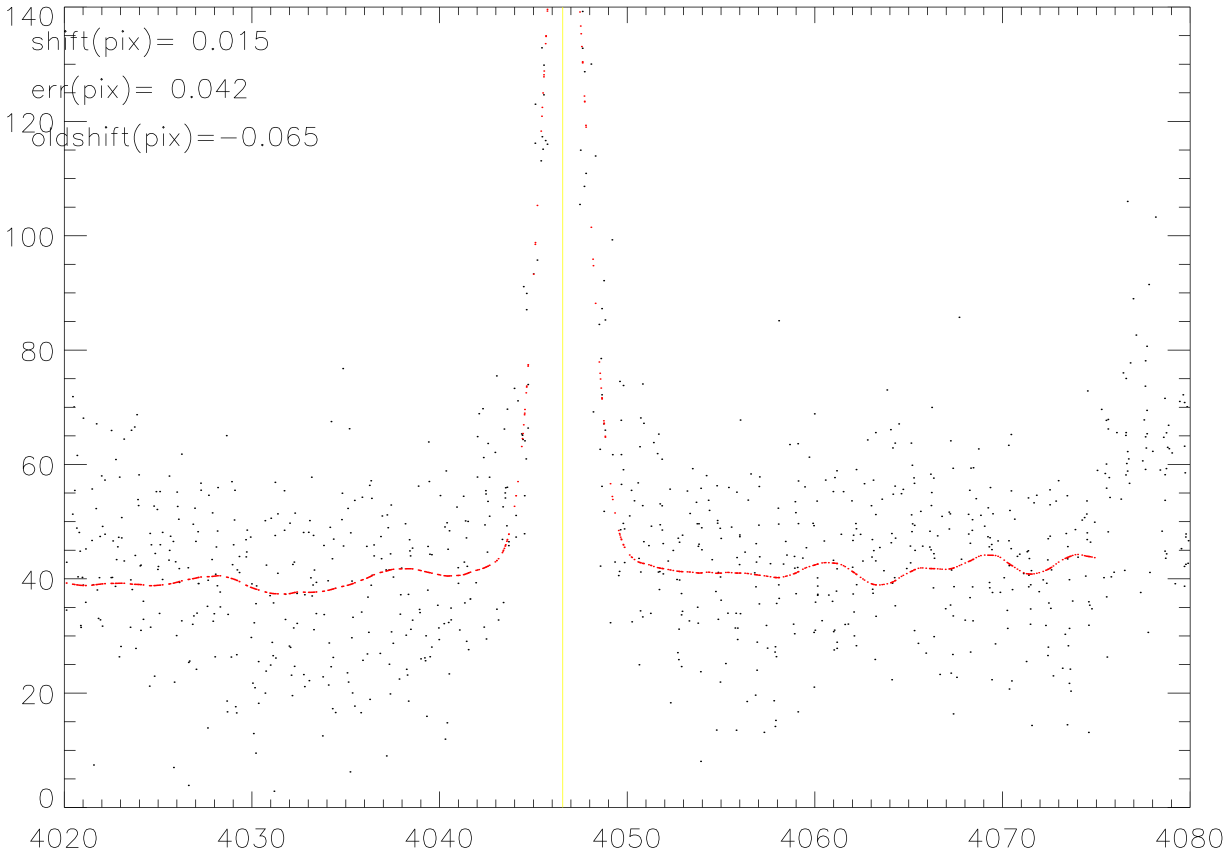
PLATE=2116 MJD=53853 Scattered Light on sdR-b2-00038905.fit

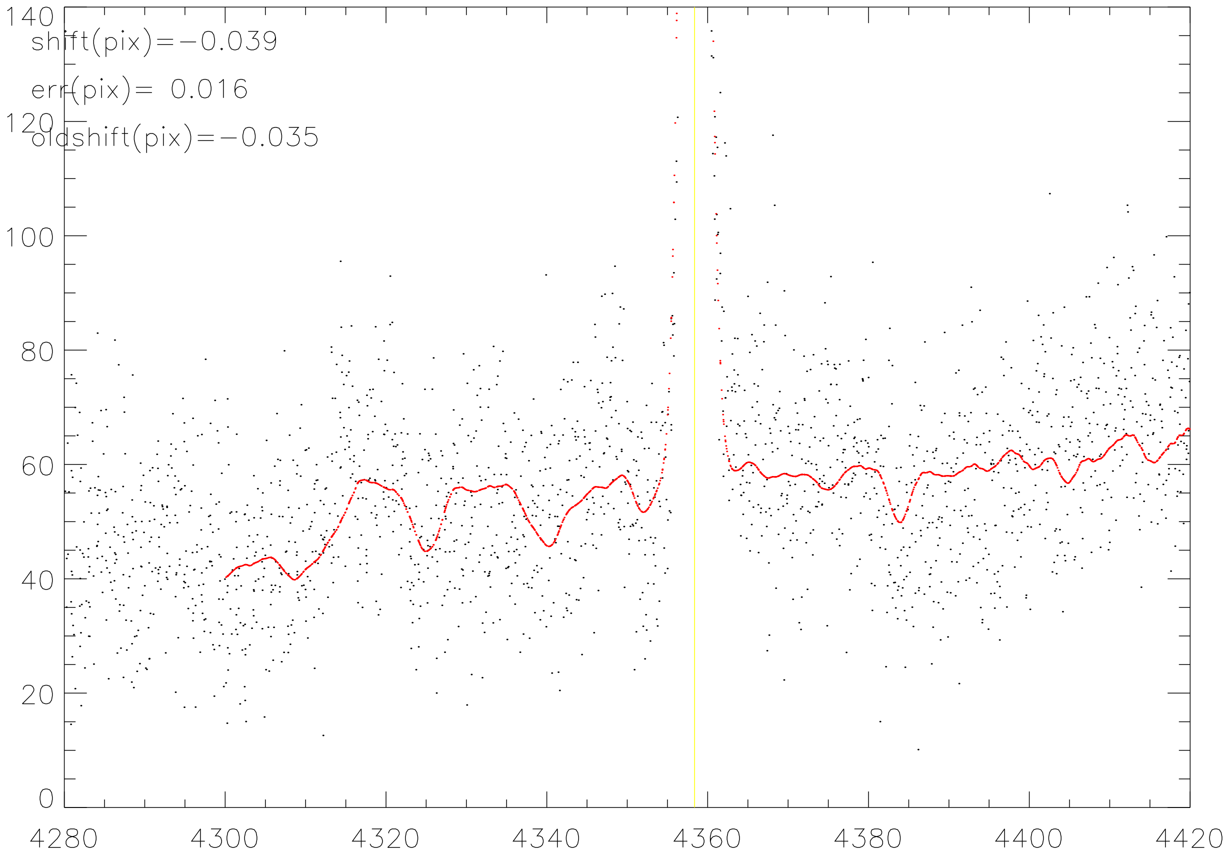


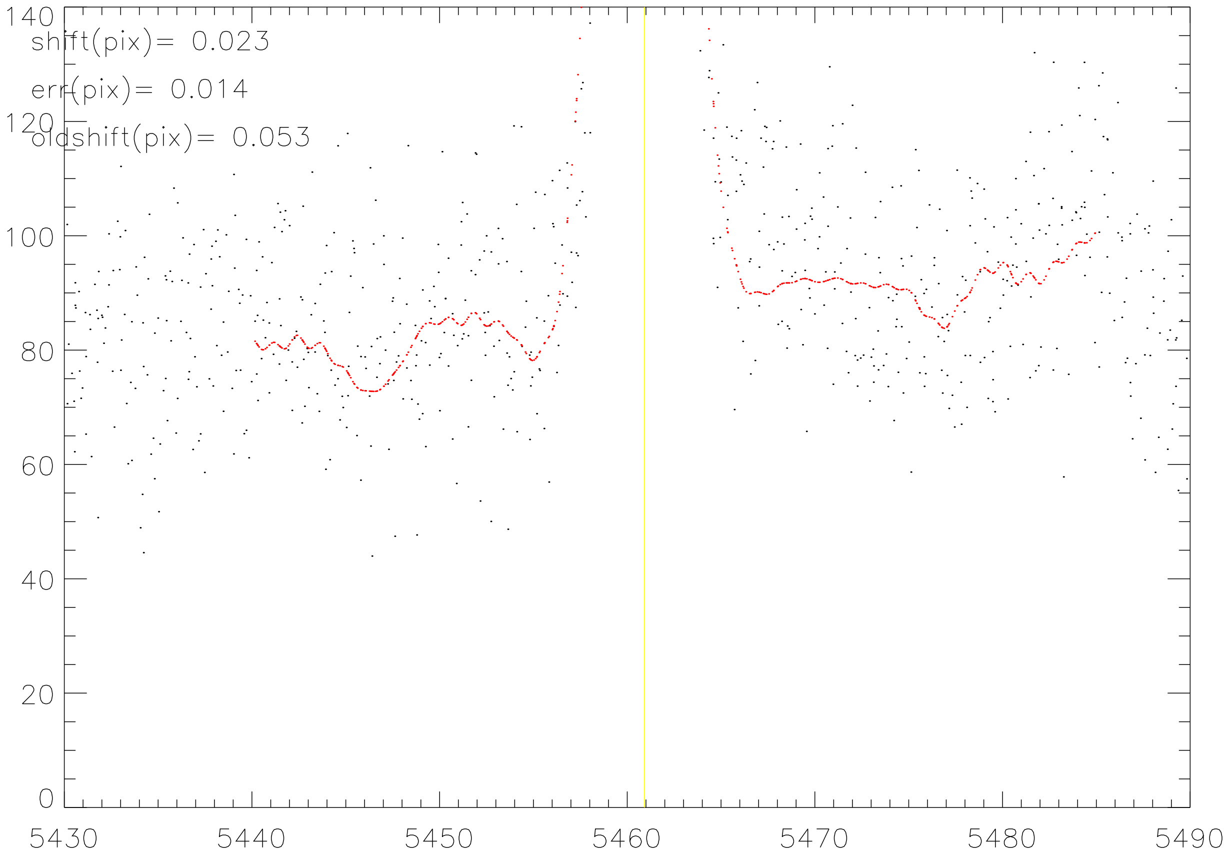
Sun Feb 17 10:52:56 2008

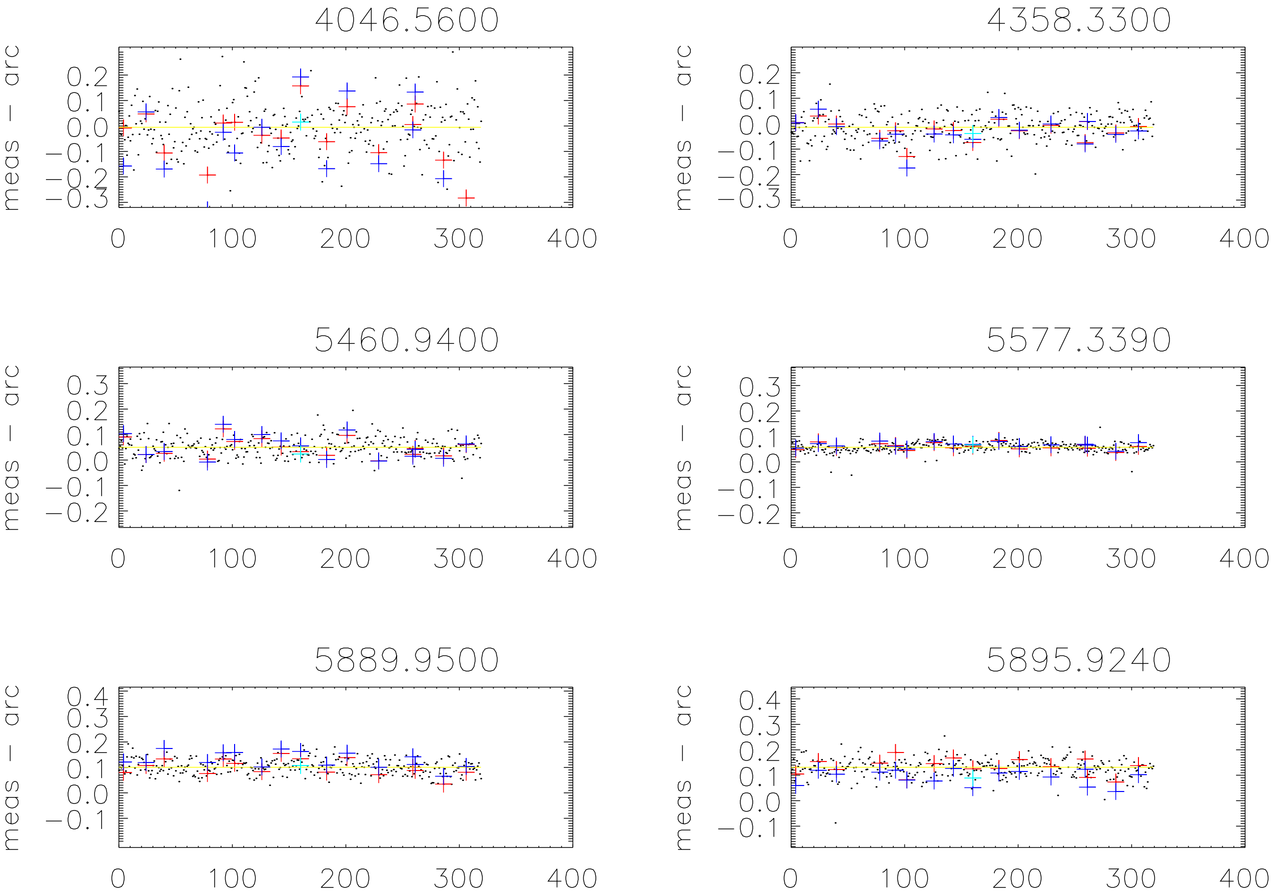

PLATE=2116 MJD=53853 Extraction chi^2 for sdR-b2-00038905.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

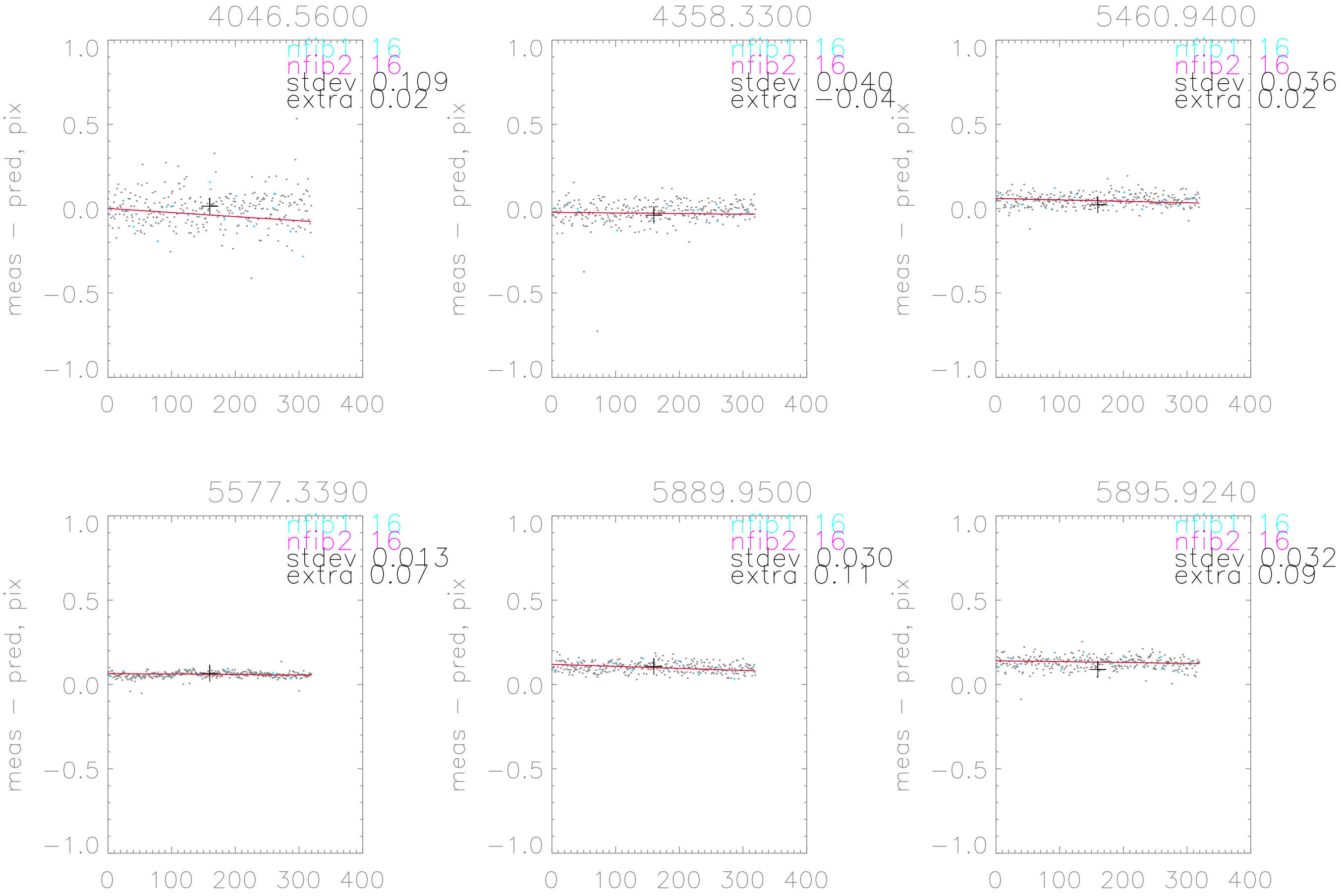

4046.5600
off: −0.07
sig: 0.034
200
150
100
50
0
−50
−4
−2
0
2
4
4358.3300
off: −0.04
sig: 0.014
500
400
300
200
100
0
−100
5460.9400
off: 0.05
sig: 0.011
800
600
400
200
0
−200
5577.3390
off: 0.07
sig: 0.003
8000
6000
4000
2000
0
5889.9500
off: 0.13
sig: 0.008
1200
1000
800
600
400
200
0
−200
5895.9240
off: 0.09
sig: 0.009
1000
800
600
400
200
0
−200

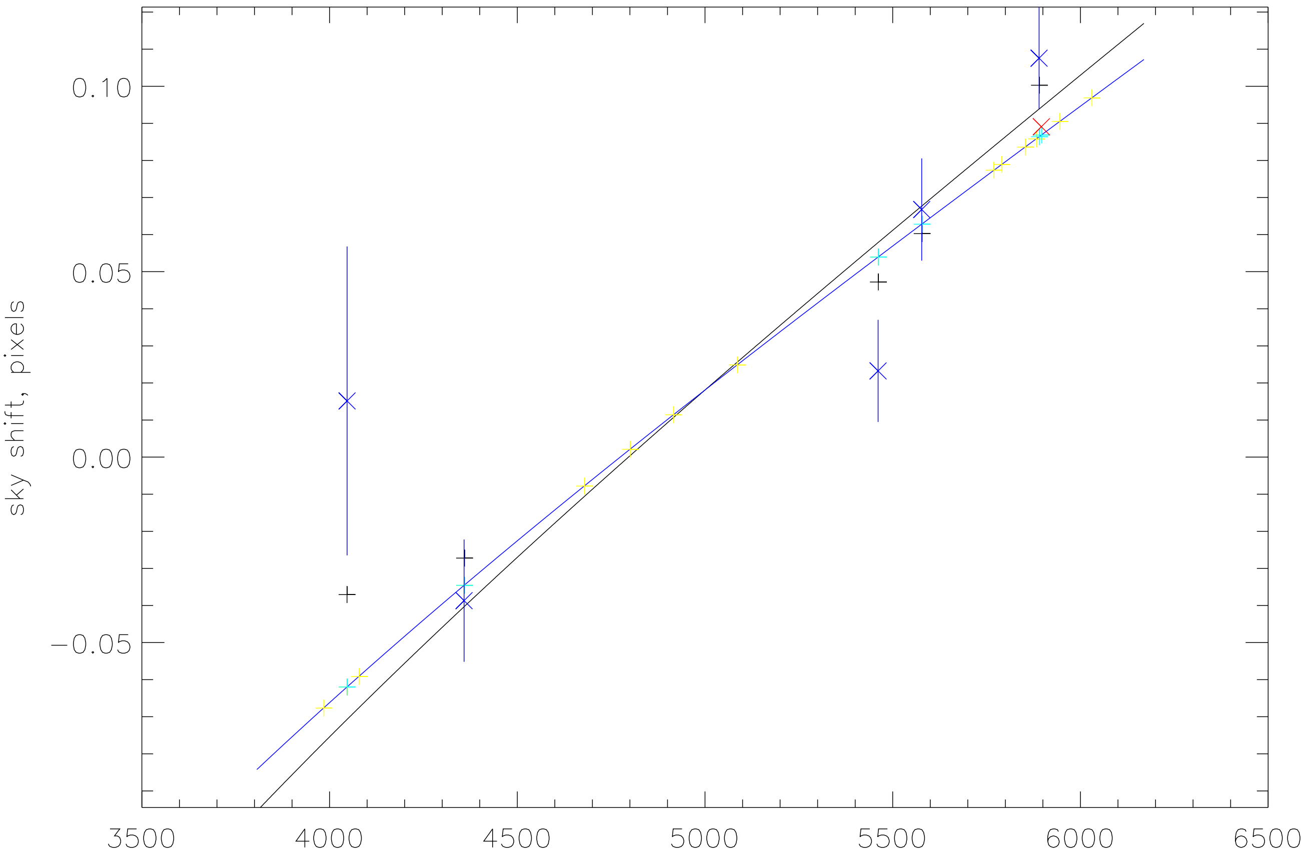

shift(pix)= 0.015
err(pix)= 0.042
oldshift(pix)=−0.065
140
120
100
80
60
40
20
0
4020
4030
4040
4050
4060
4070
4080

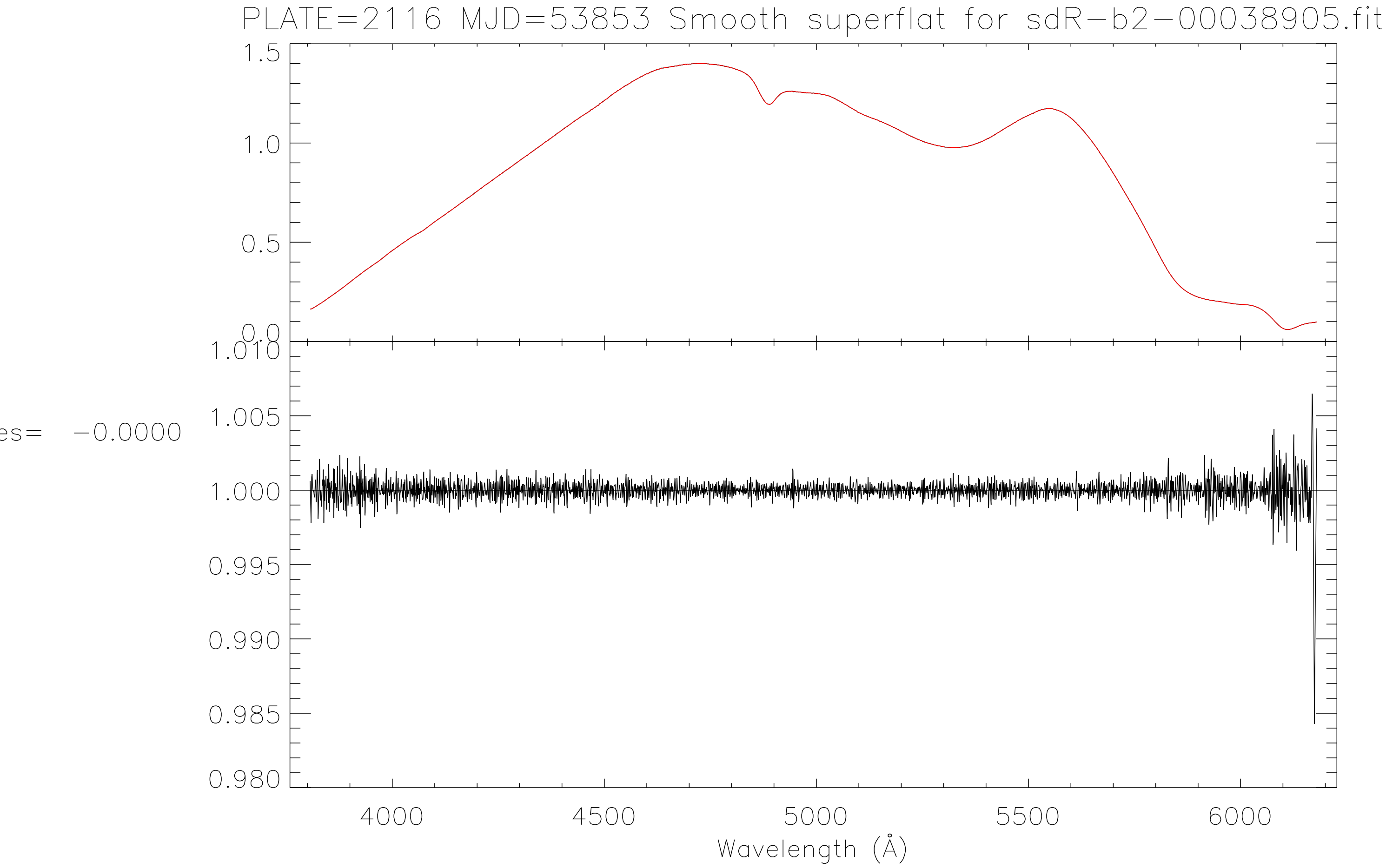

shift(pix)=−0.039
err(pix)= 0.016
oldshift(pix)=−0.035
0
20
40
60
80
100
120
140
4280
4300
4320
4340
4360
4380
4400
4420


shift(pix)= 0.023
err(pix)= 0.014
oldshift(pix)= 0.053
140
120
100
80
60
40
20
0
5430
5440
5450
5460
5470
5480
5490

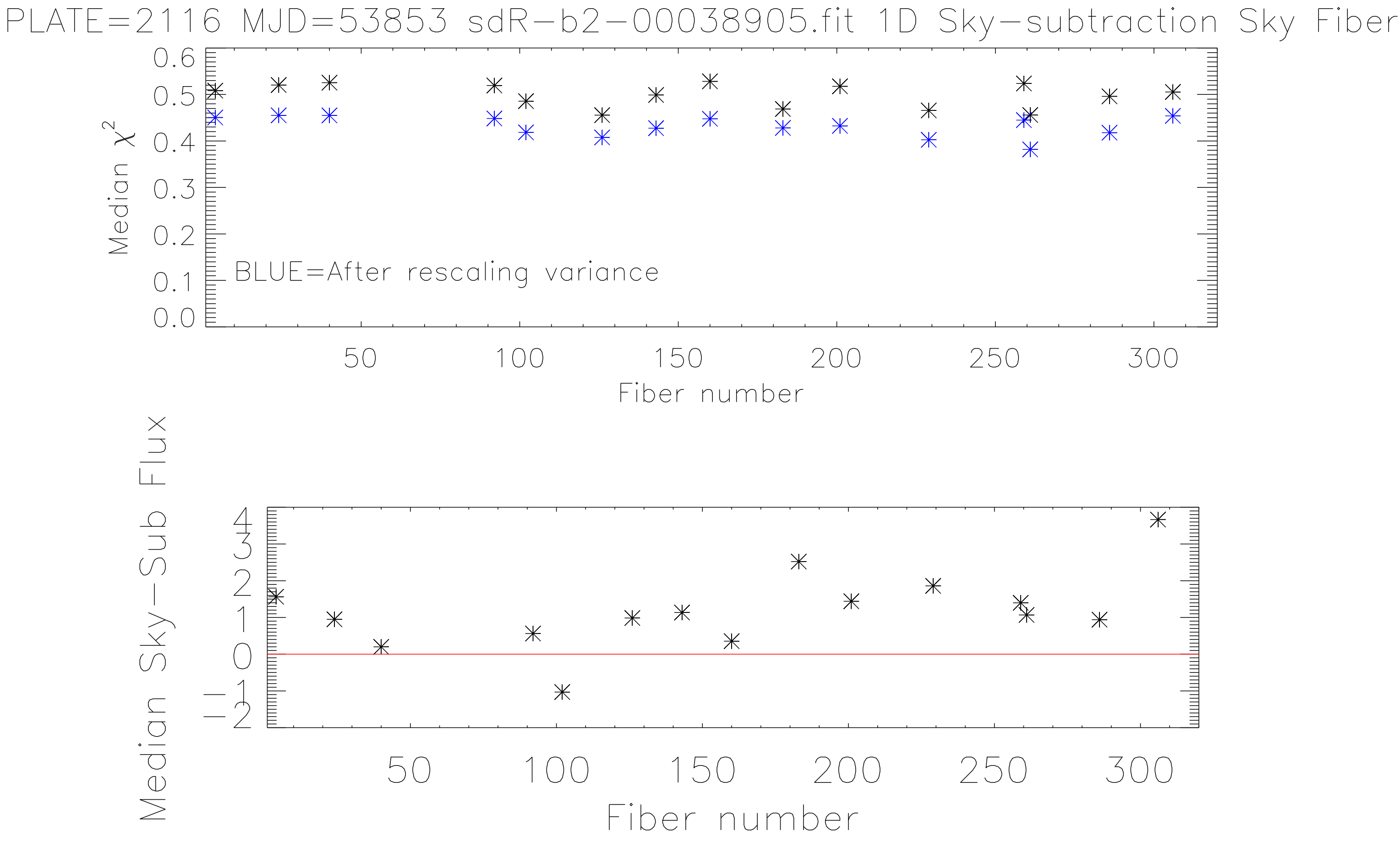

4046.5600
4358.3300
5460.9400
5577.3390
5889.9500
5895.9240
meas − arc
0
100
200
300
400


4046.5600
nfib1 16
nfib2 16
stdev 0.109
extra 0.02
4358.3300
nfib1 16
nfib2 16
stdev 0.040
extra −0.04
5460.9400
nfib1 16
nfib2 16
stdev 0.036
extra 0.02
5577.3390
nfib1 16
nfib2 16
stdev 0.013
extra 0.07
5889.9500
nfib1 16
nfib2 16
stdev 0.030
extra 0.11
5895.9240
nfib1 16
nfib2 16
stdev 0.032
extra 0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


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

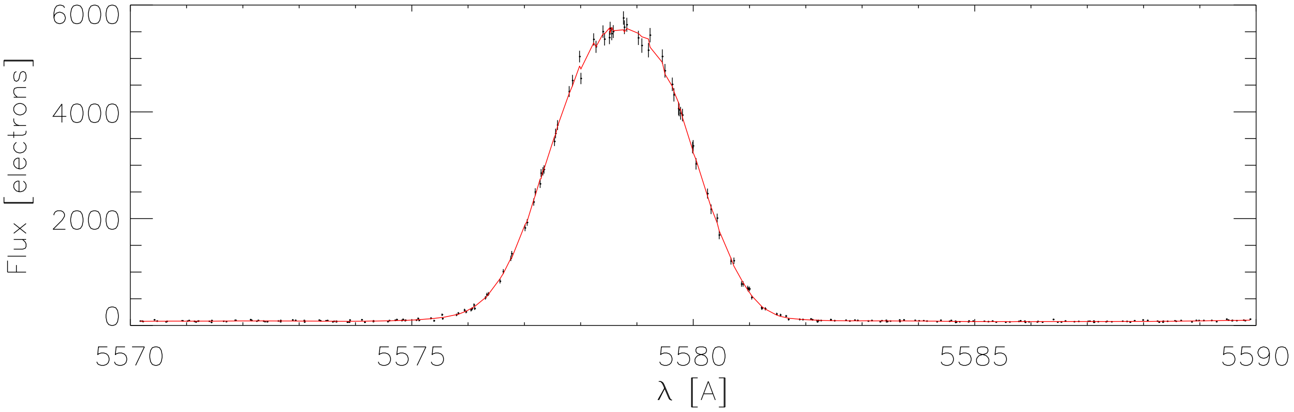


PLATE=2116 MJD=53853 Smooth superflat for sdR-b2-00038905.fit

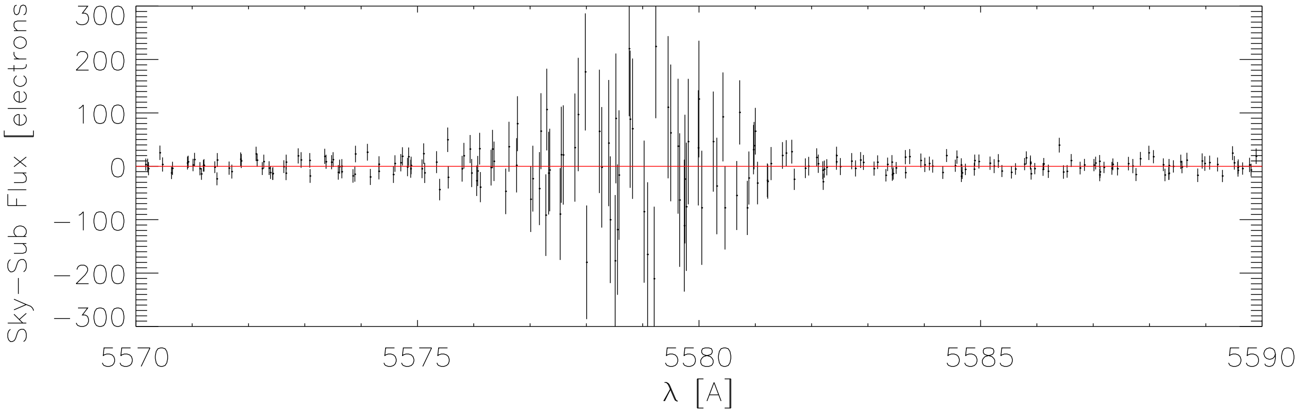


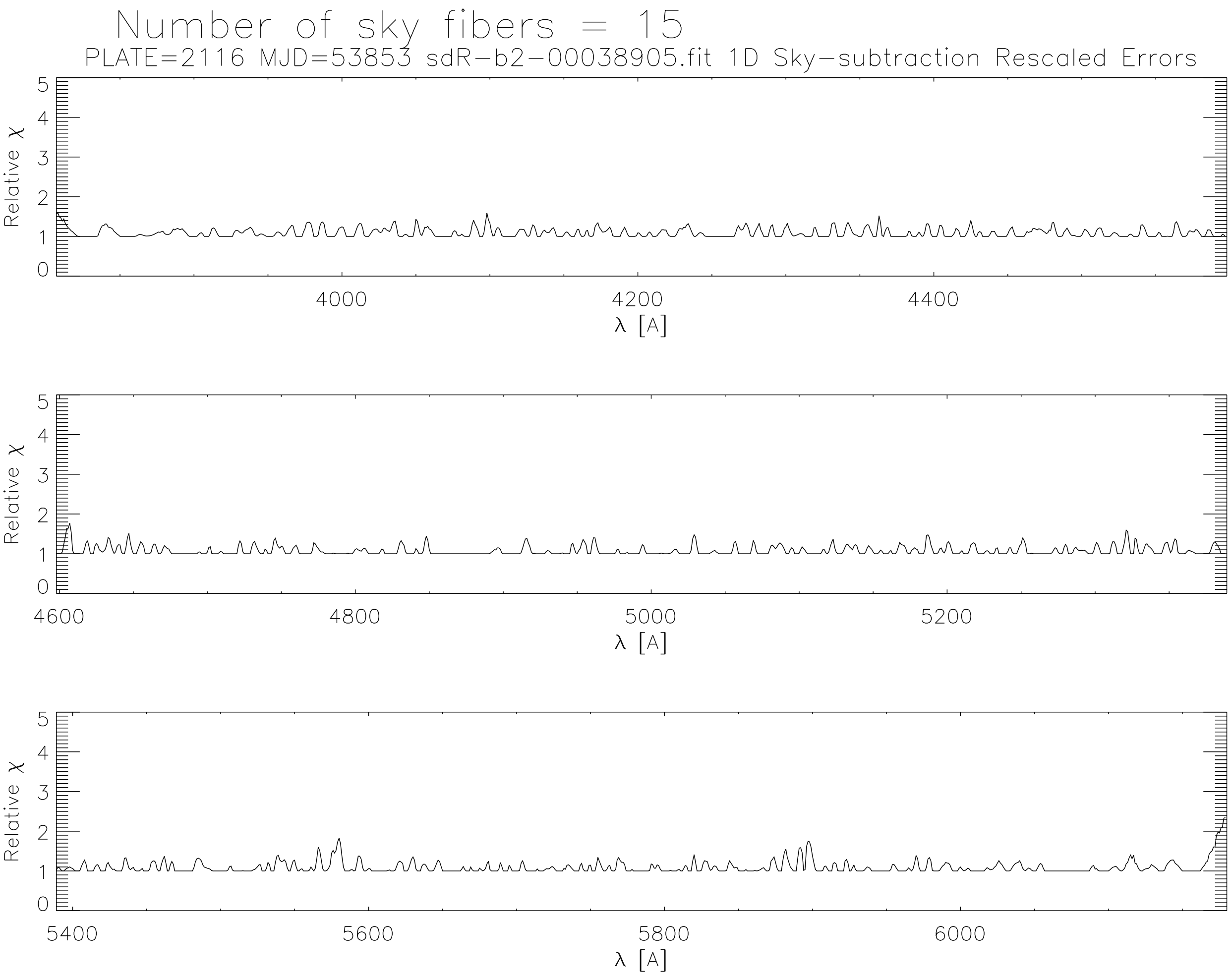
PLATE=2116 MJD=53853 sdR-b2-00038905.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.6
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
4
3
2
1
0
-1
-2
50
100
150
200
250
300
Fiber number

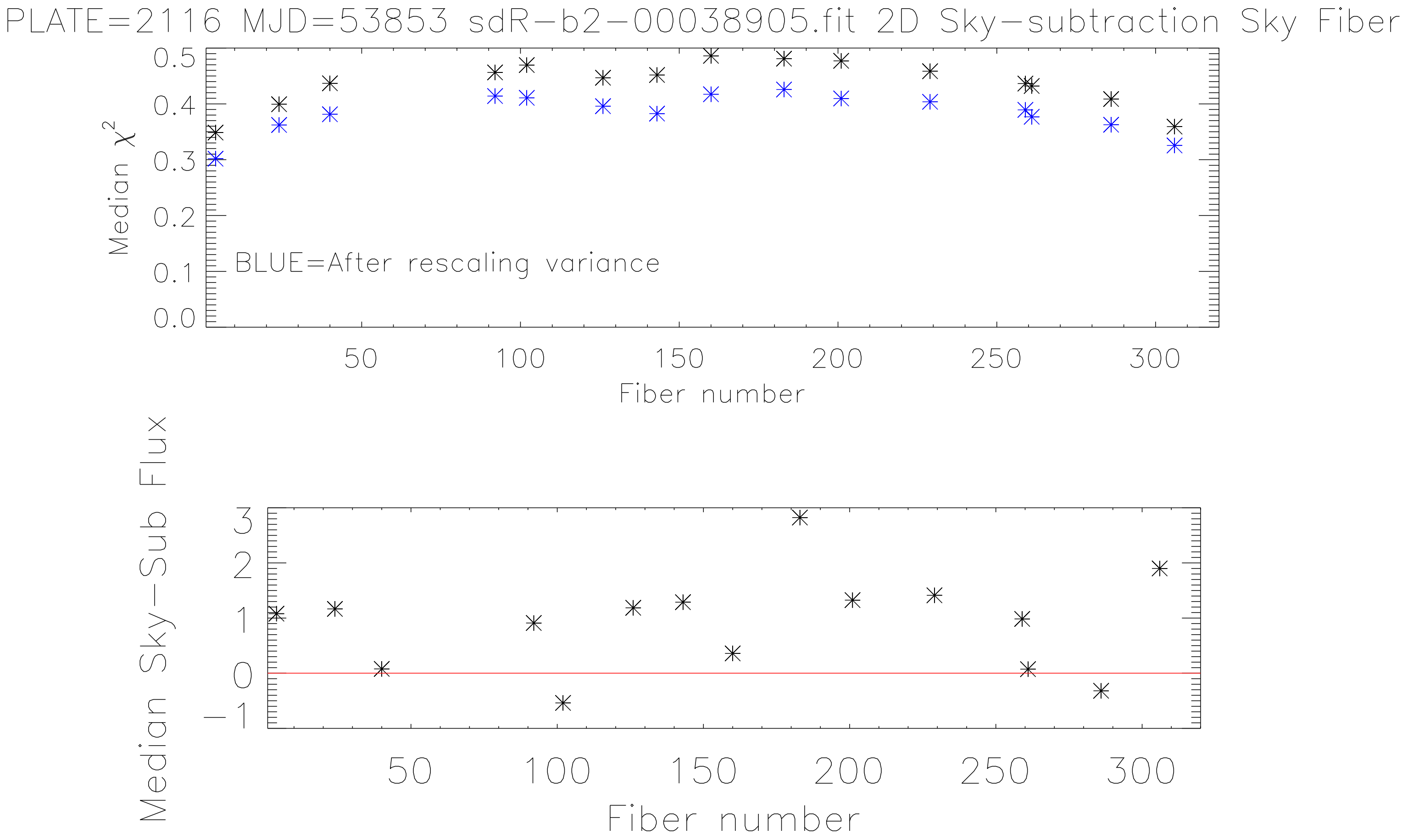
PLATE=2116 MJD=53853 sdR-b2-00038905.fit 1D Sky-subtraction Sky Fibers



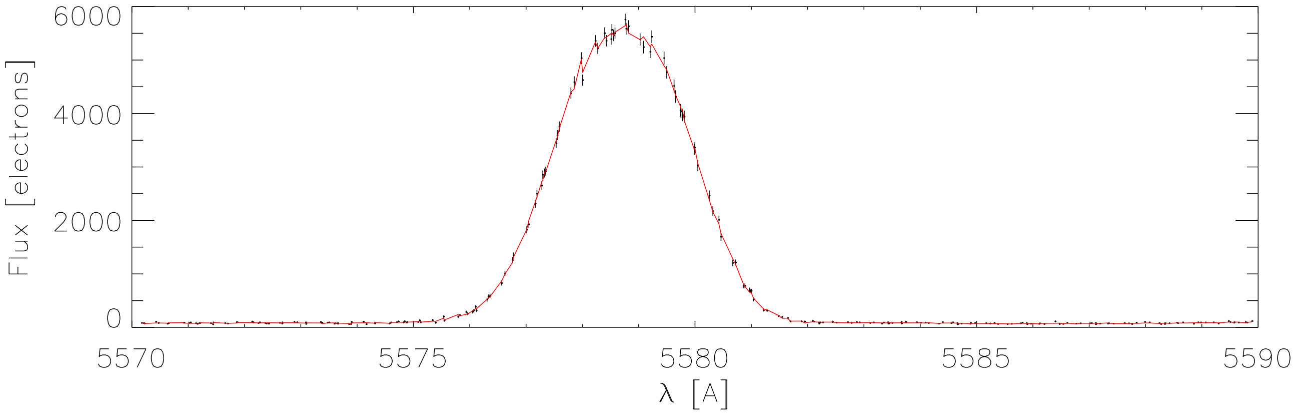
PLATE=2116 MJD=53853 sdR-b2-00038905.fit 1D Sky-subtraction Sky-subtracted Sky F



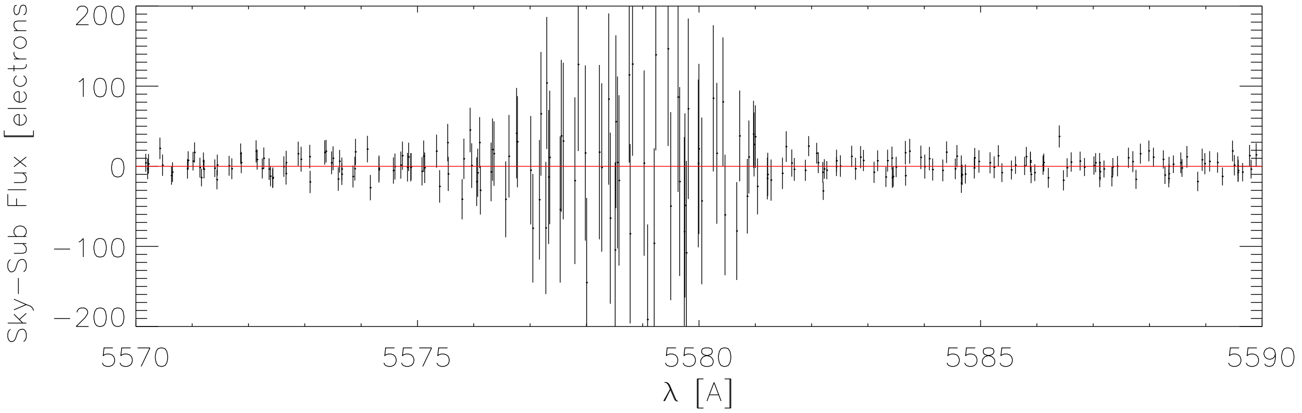

Number of sky fibers = 15
PLATE=2116 MJD=53853 sdR-b2-00038905.fit 1D Sky-subtraction Rescaled Errors
Relative χ
0
1
2
3
4
5
4000
4200
4400
λ [A]
4600
4800
5000
5200
5400
5600
5800
6000

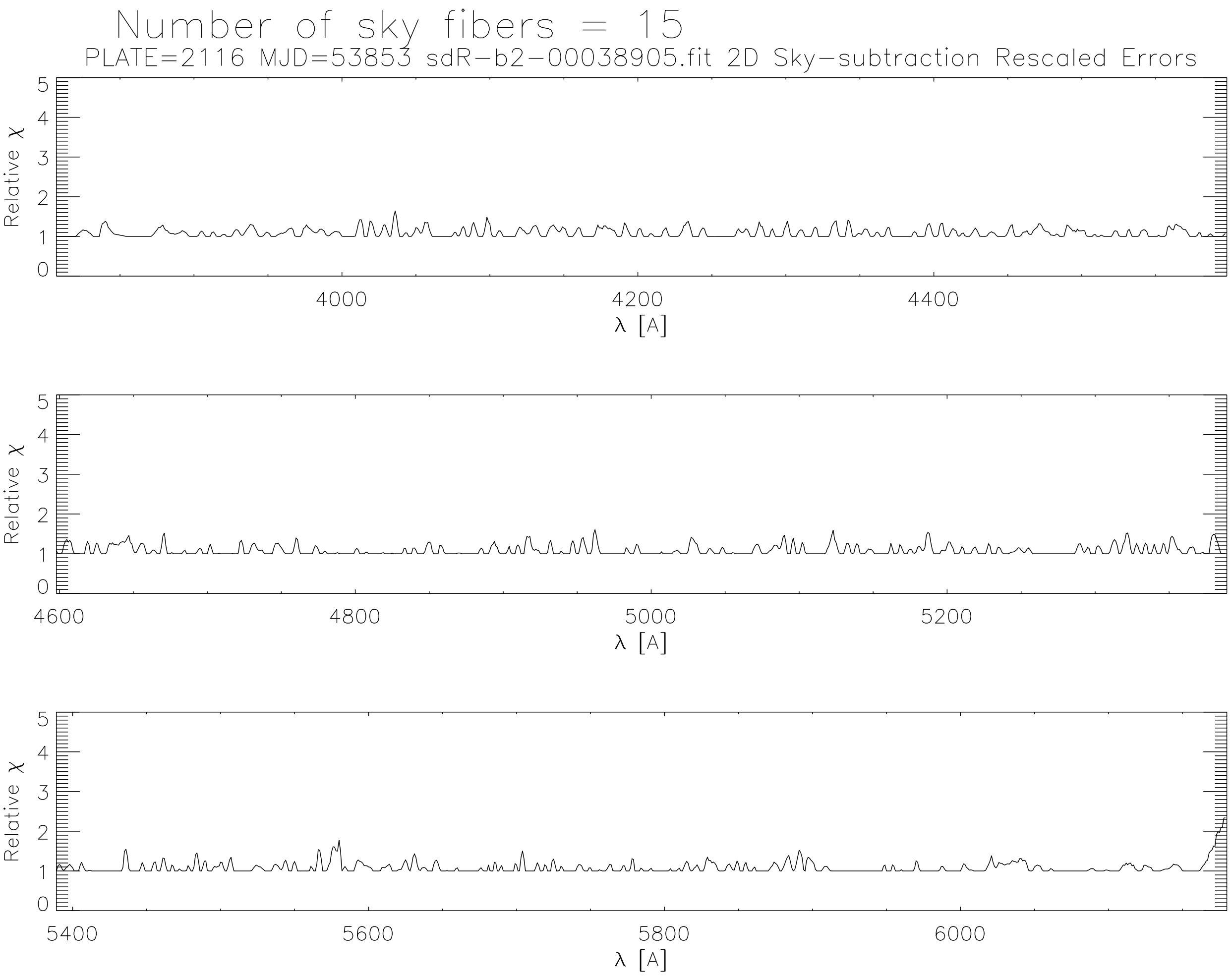

PLATE=2116 MJD=53853 sdR-b2-00038905.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
−1
0
1
2
3
50
100
150
200
250
300
Fiber number

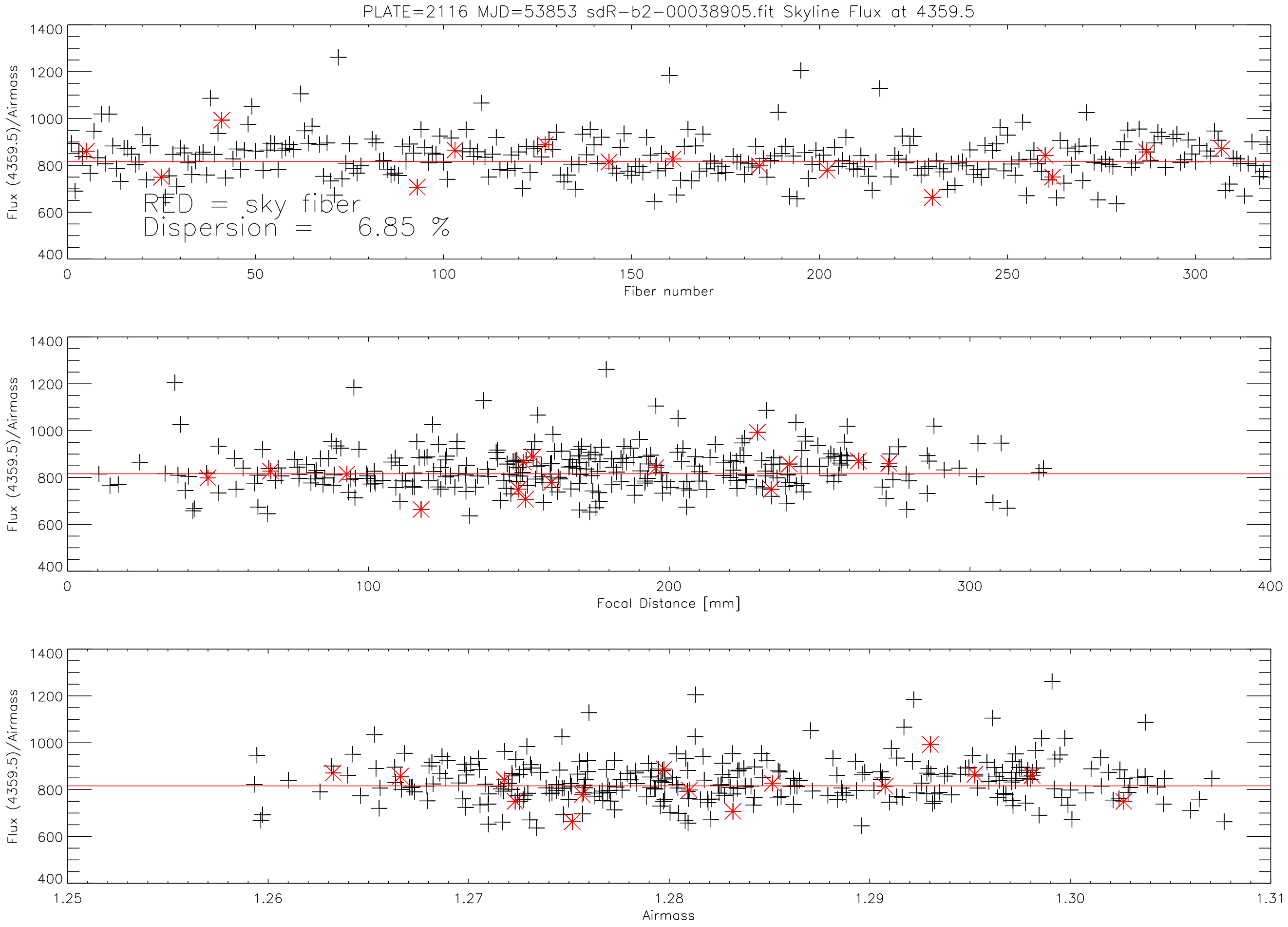
PLATE=2116 MJD=53853 sdR-b2-00038905.fit 2D Sky-subtraction Sky Fibers

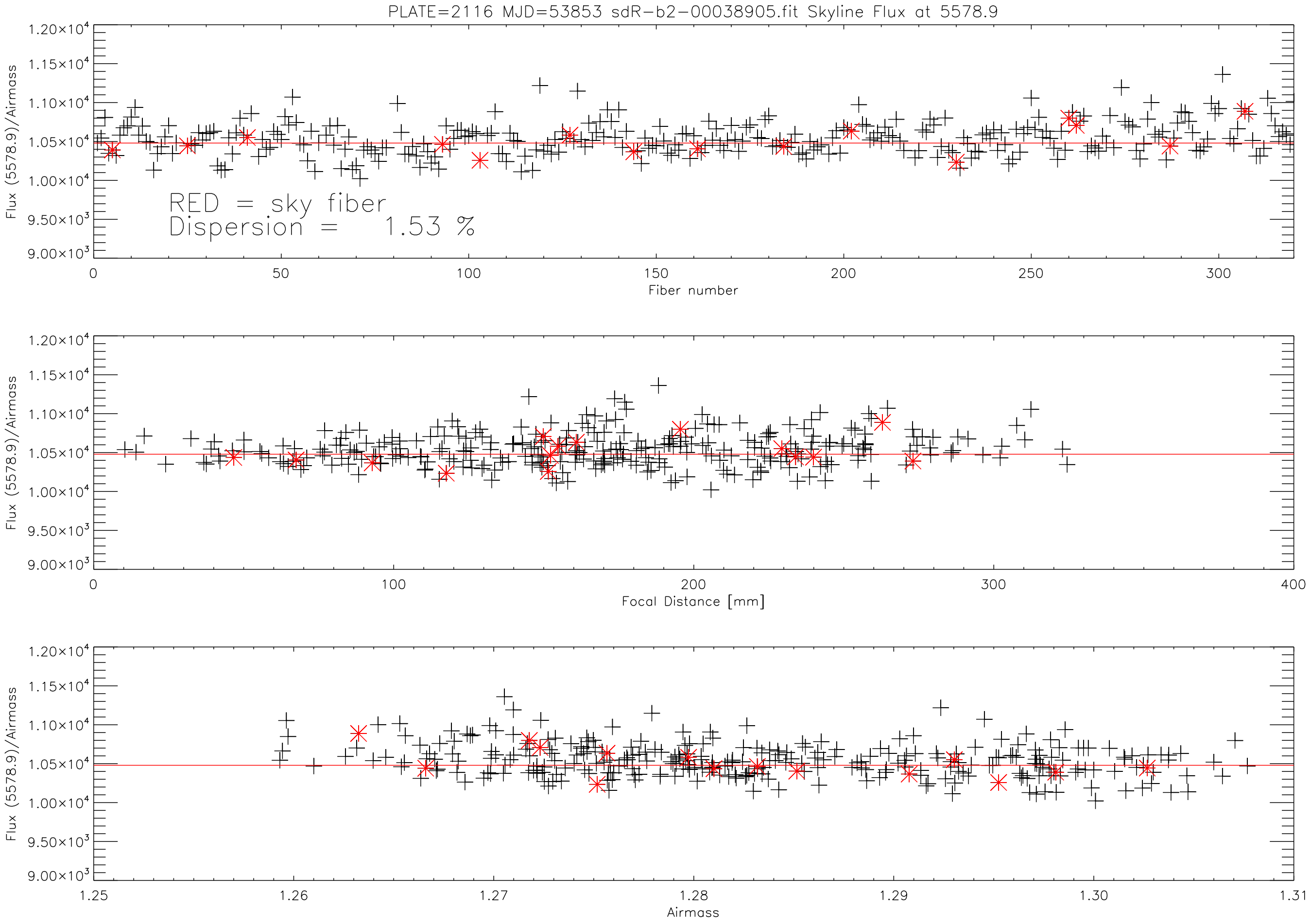


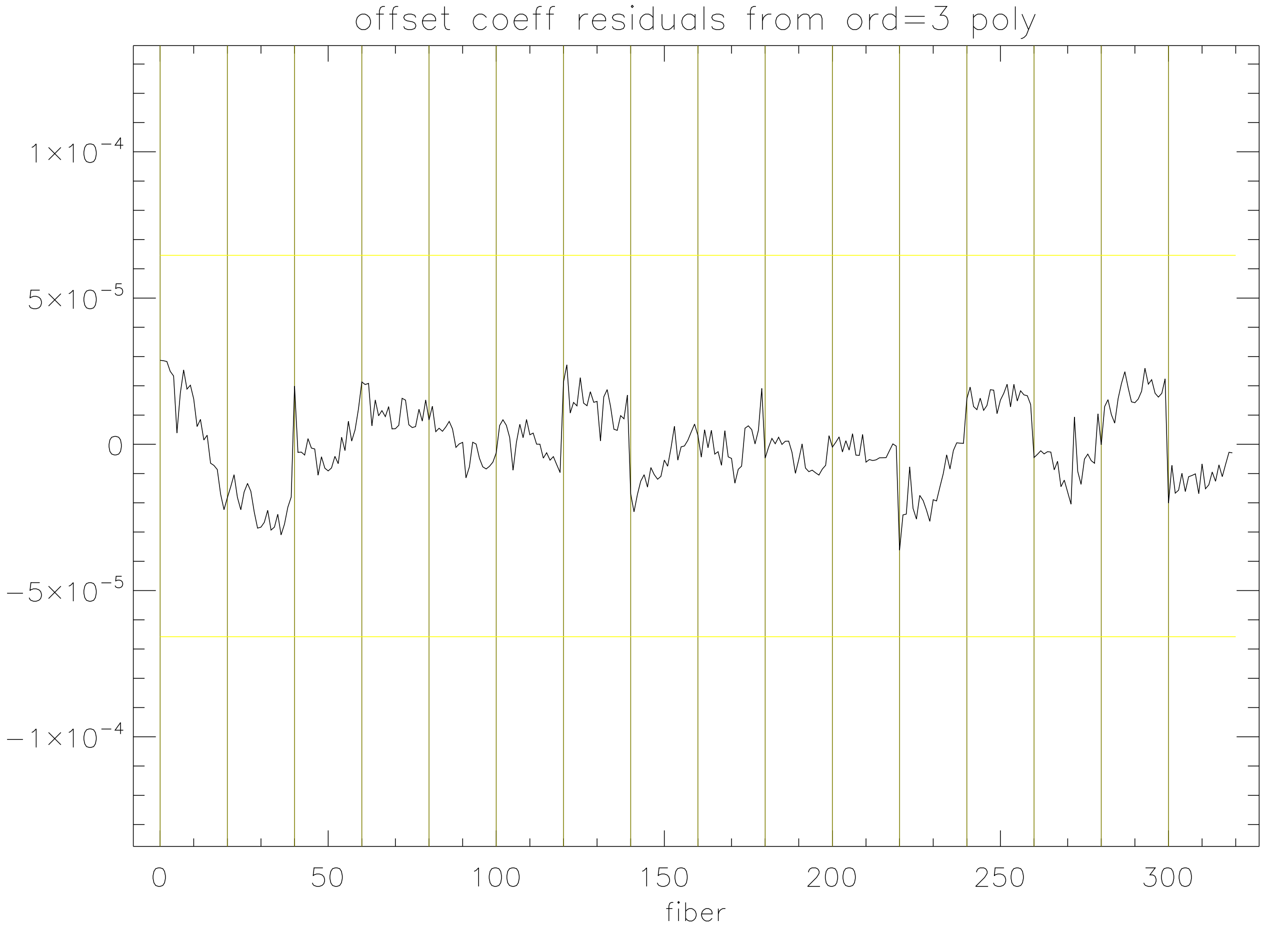
PLATE=2116 MJD=53853 sdR-b2-00038905.fit 2D Sky-subtraction Sky-subtracted Sky F

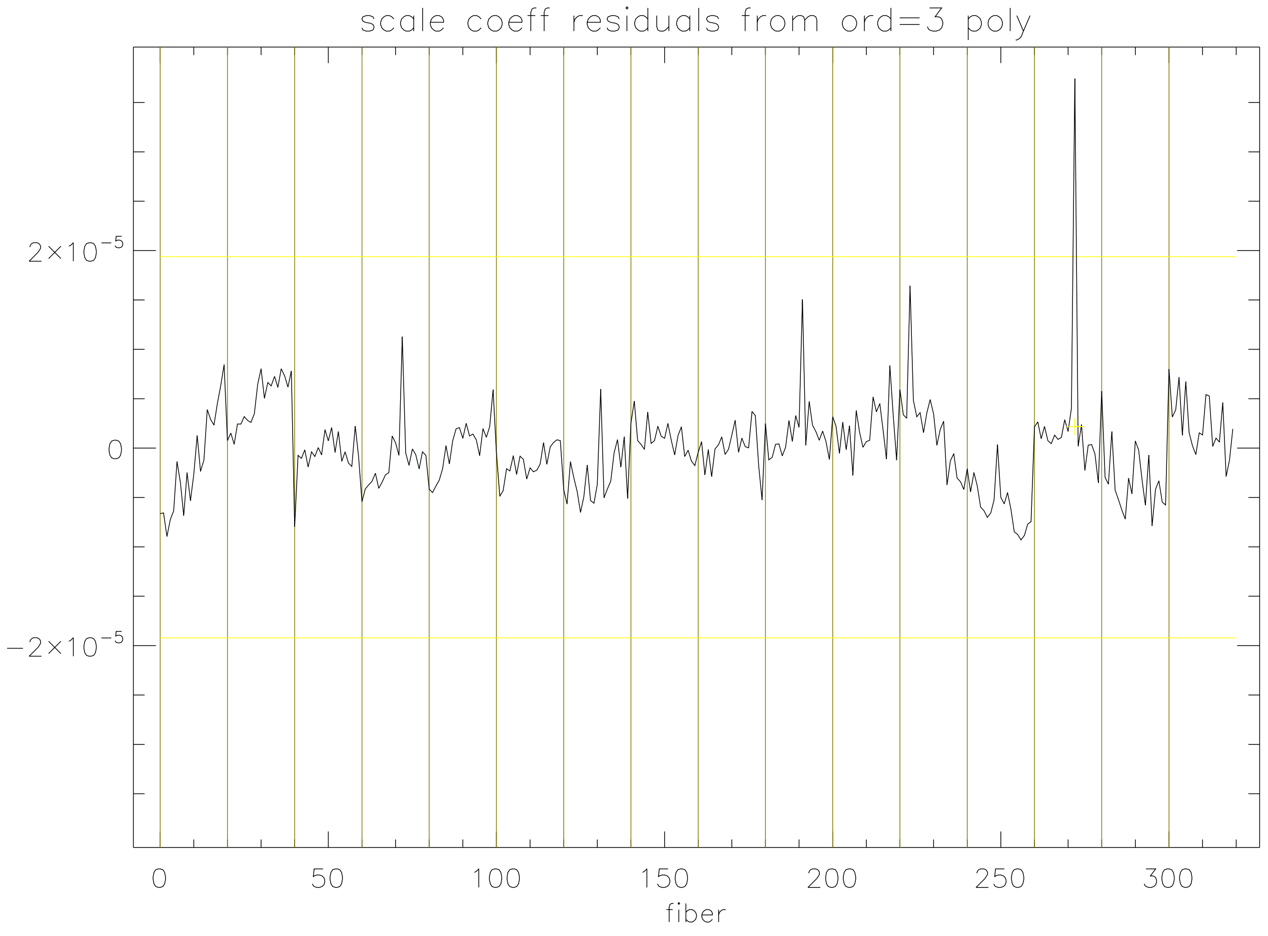


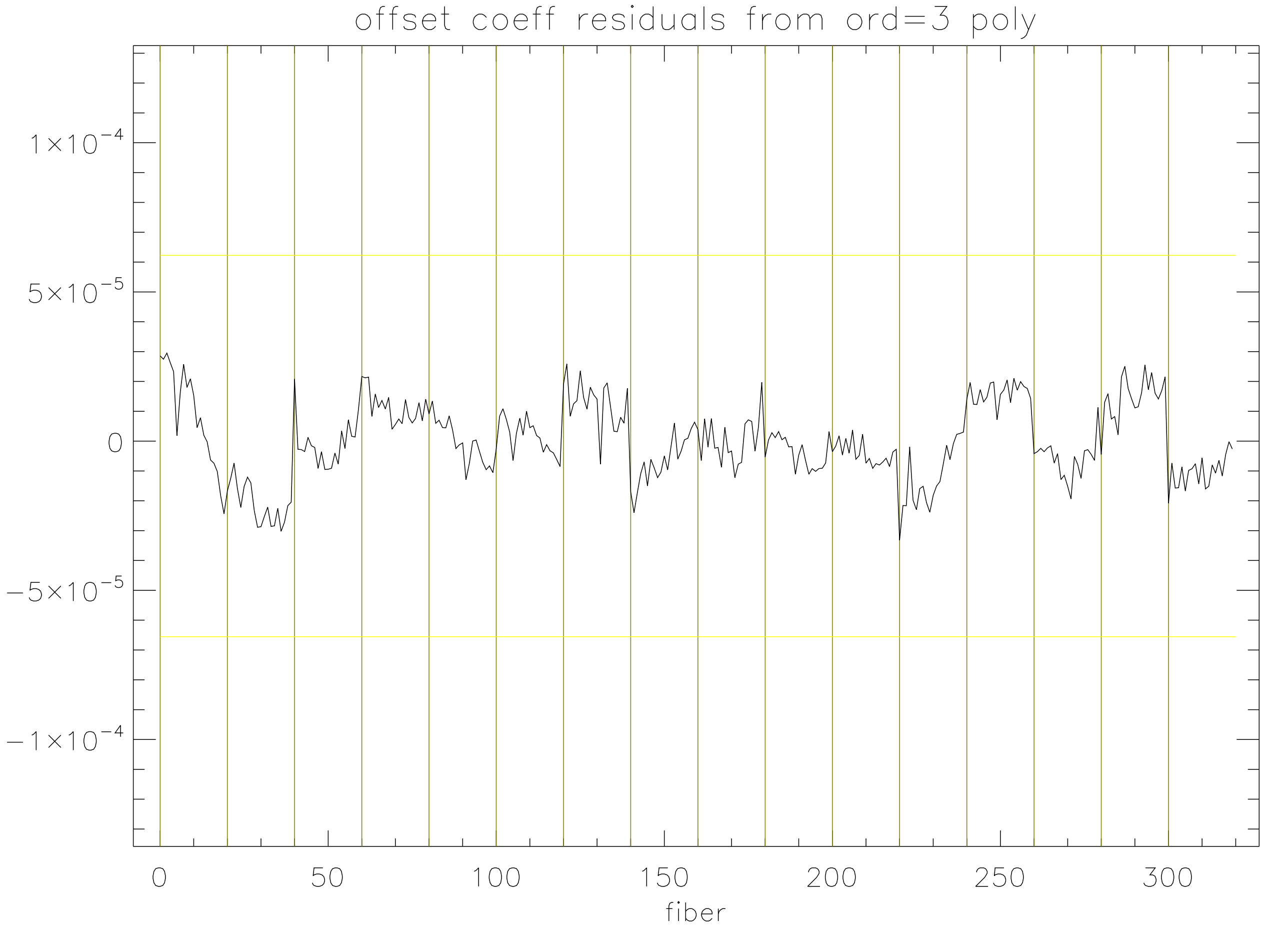

Number of sky fibers = 15
PLATE=2116 MJD=53853 sdR-b2-00038905.fit 2D Sky-subtraction Rescaled Errors
Relative χ
0
1
2
3
4
5
4000
4200
4400
λ [A]
Relative χ
0
1
2
3
4
5
4600
4800
5000
5200
λ [A]
Relative χ
0
1
2
3
4
5
5400
5600
5800
6000
λ [A]

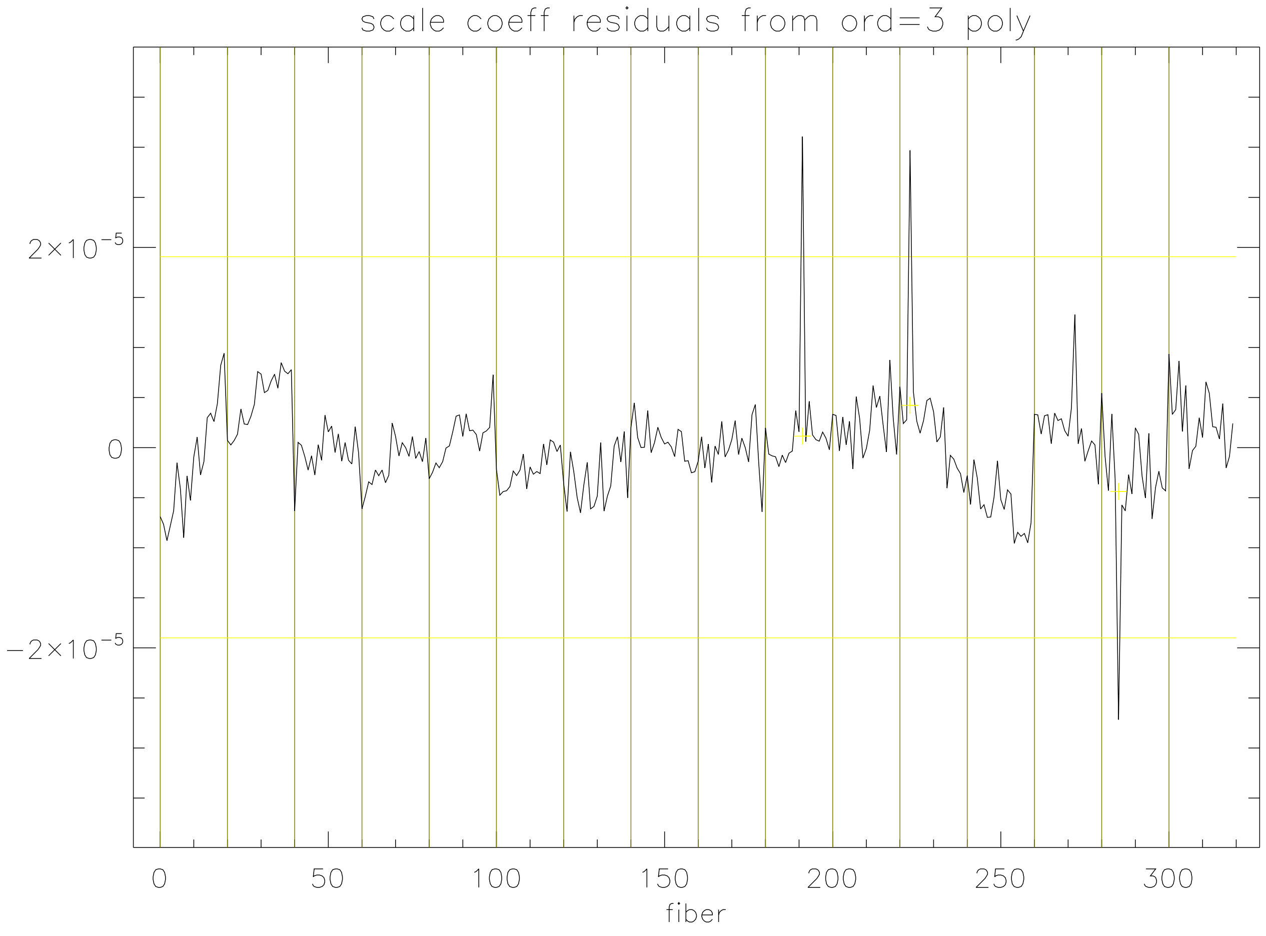

PLATE=2116 MJD=53853 sdR-b2-00038905.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
1400
1200
1000
800
600
400
RED = sky fiber
Dispersion = 6.85 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
1400
1200
1000
800
600
400
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
1400
1200
1000
800
600
400
1.25
1.26
1.27
1.28
1.29
1.30
1.31
Airmass

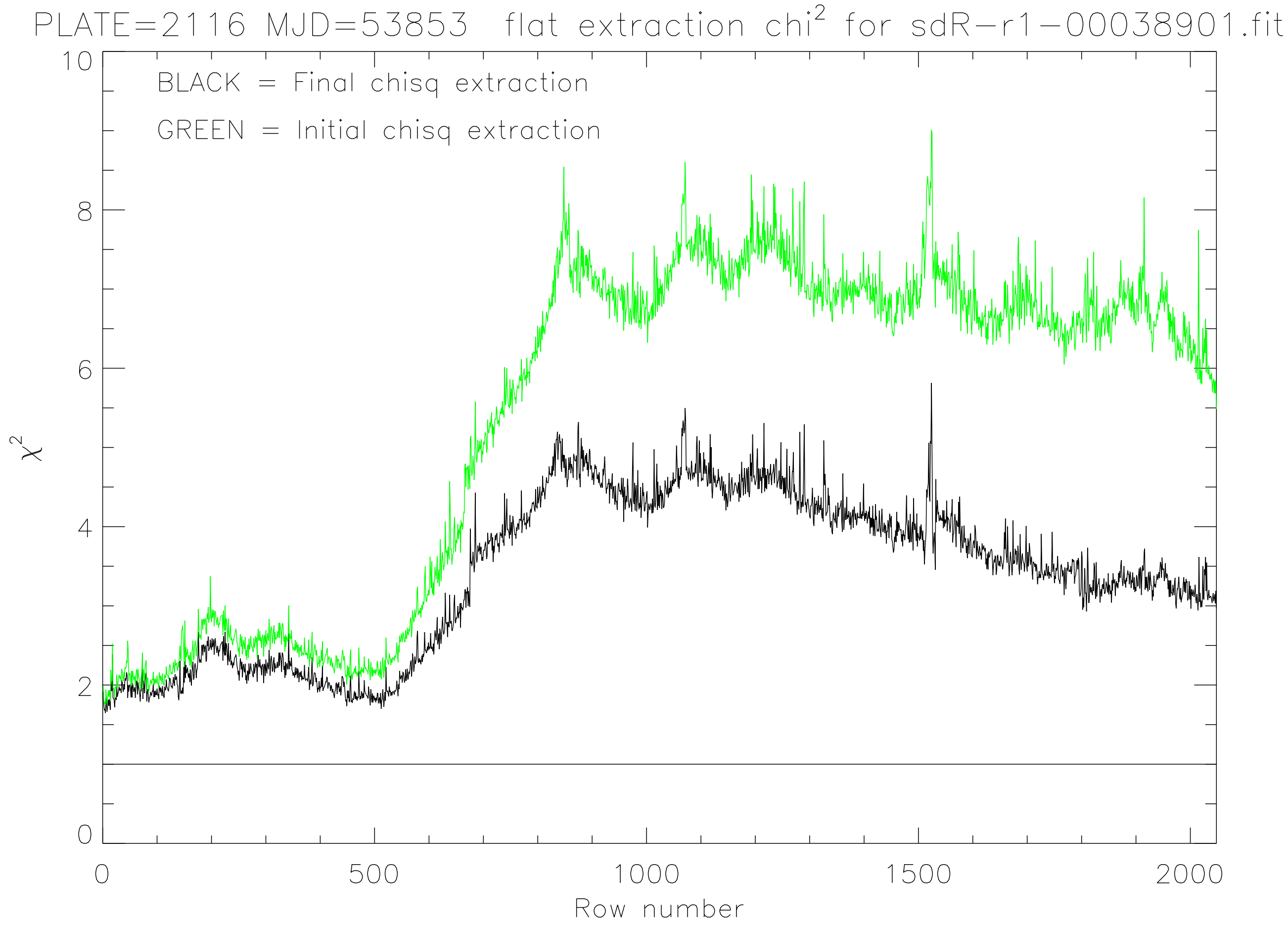

PLATE=2116 MJD=53853 sdR-b2-00038905.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1.20×10⁴
1.15×10⁴
1.10×10⁴
1.05×10⁴
1.00×10⁴
9.50×10³
9.00×10³
RED = sky fiber
Dispersion = 1.53 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.25
1.26
1.27
1.28
1.29
1.30
1.31
Airmass

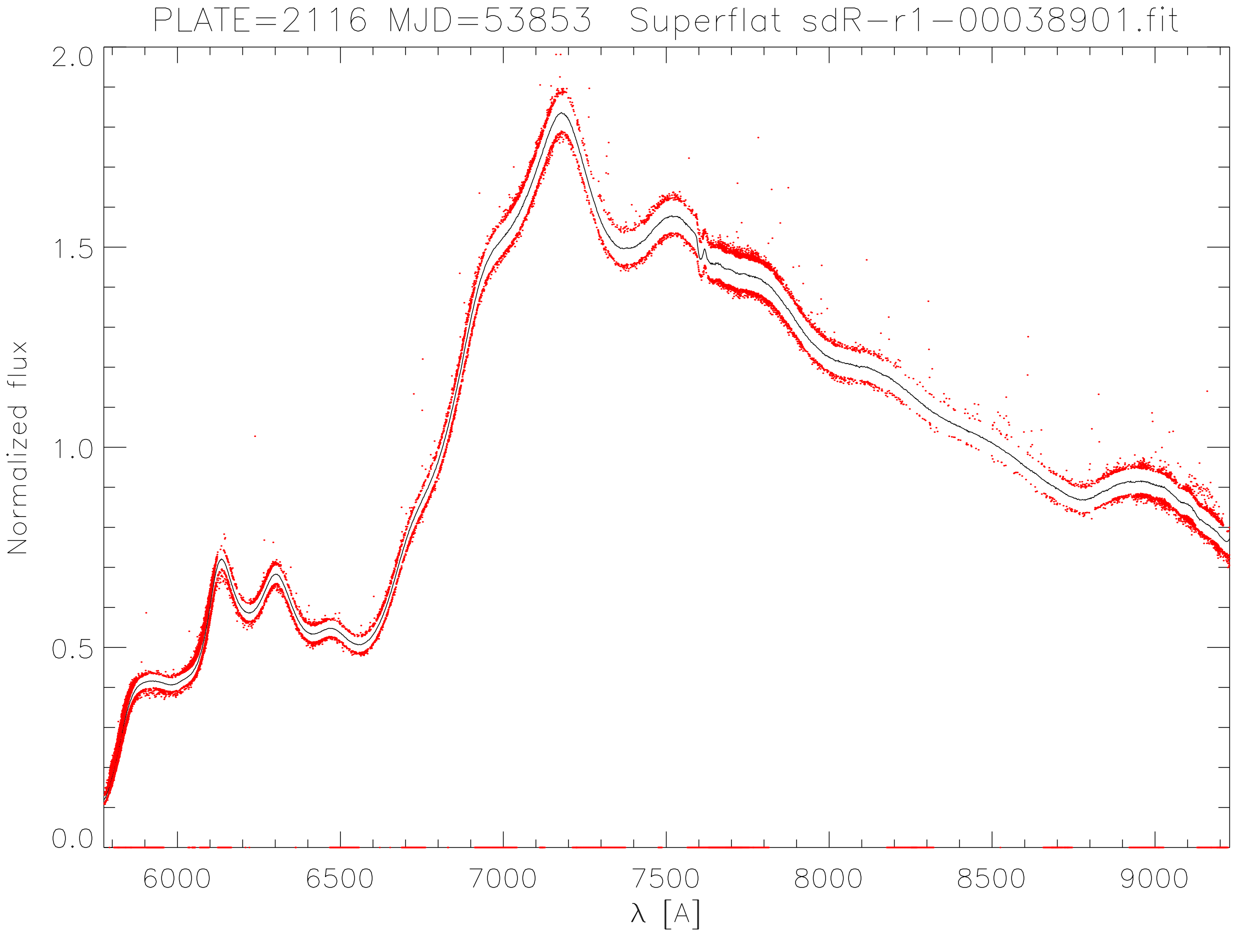

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

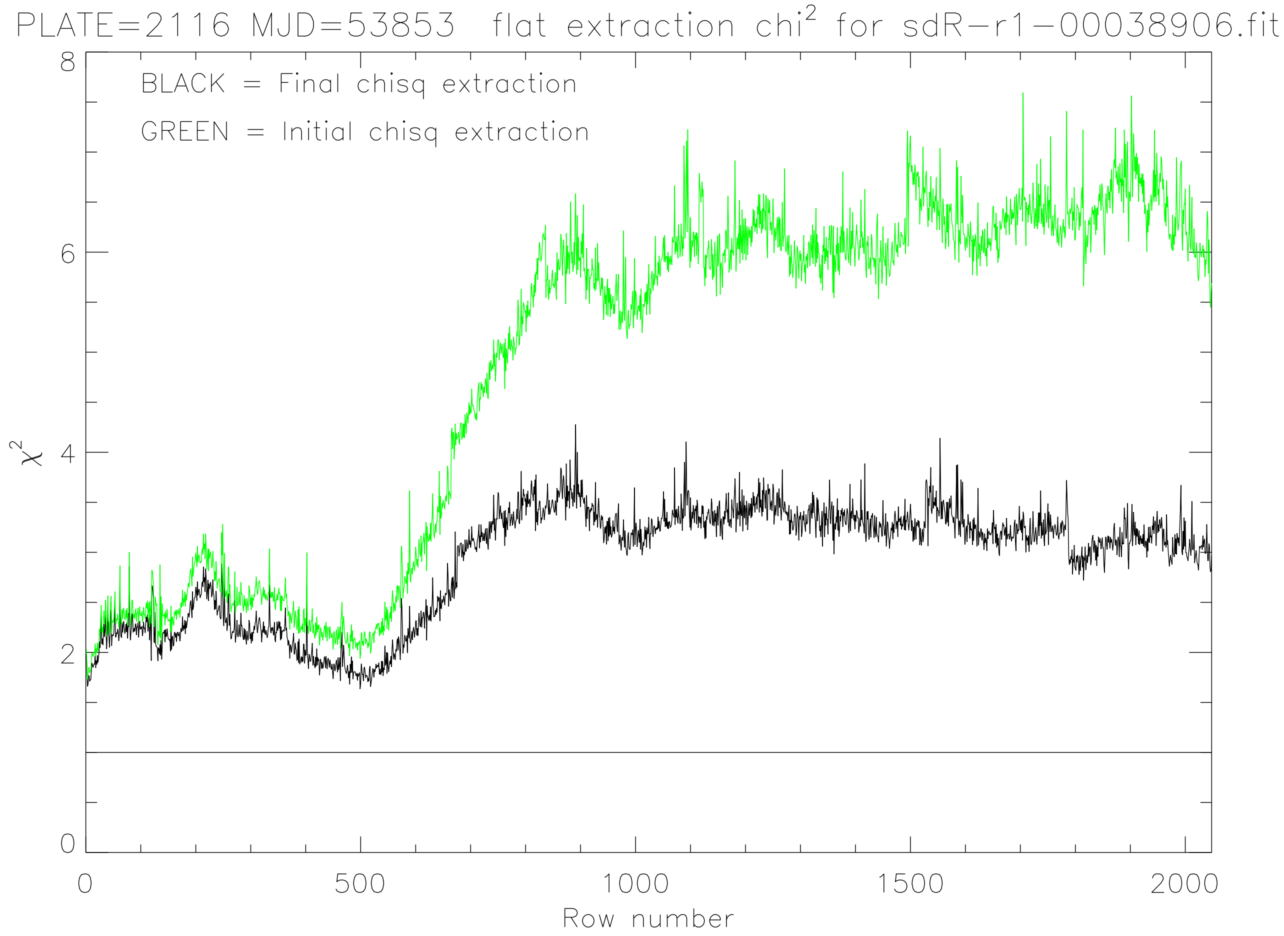

scale coeff residuals from ord=3 poly
2×10^{-5}
0
-2×10^{-5}
0
50
100
150
200
250
300
fiber

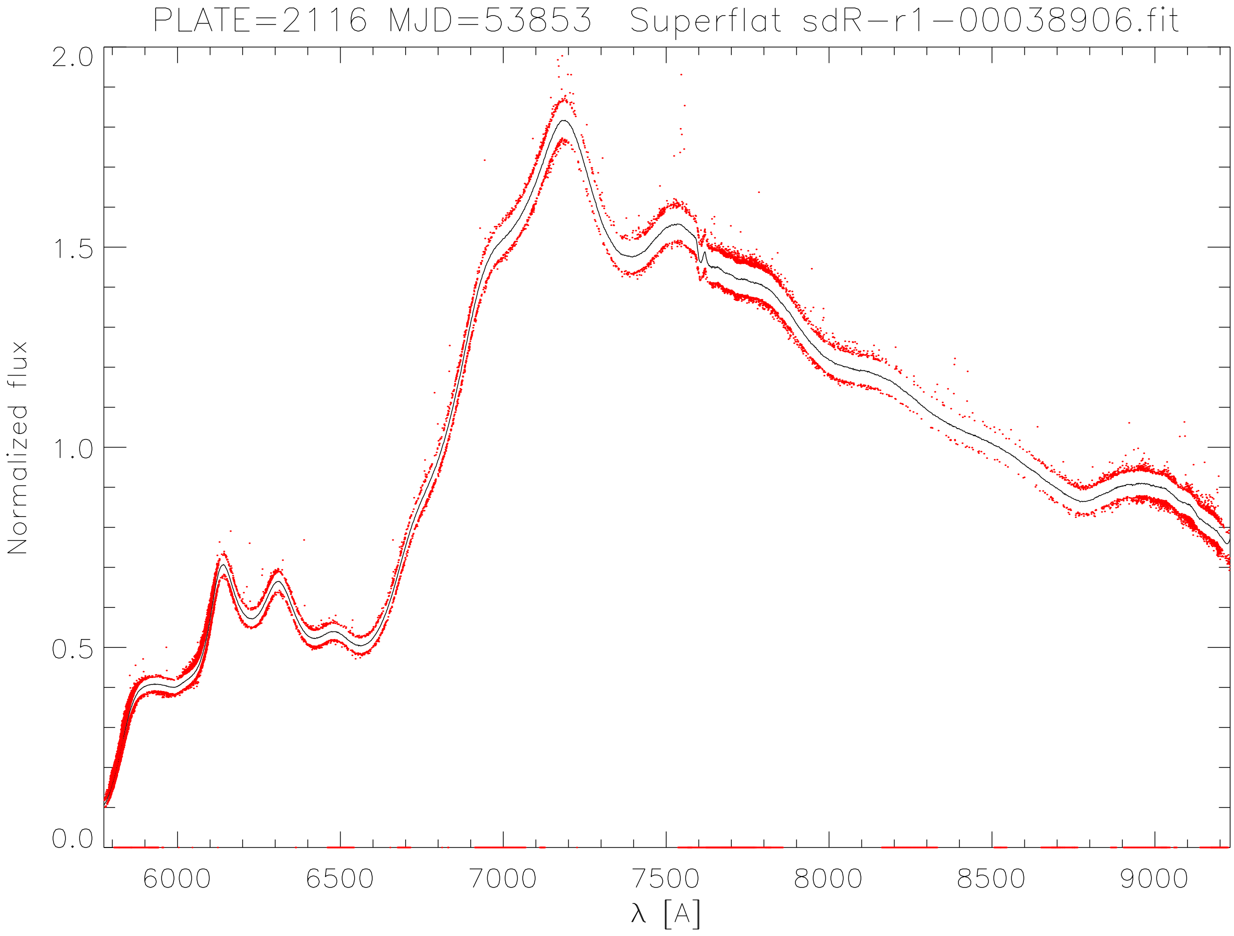

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

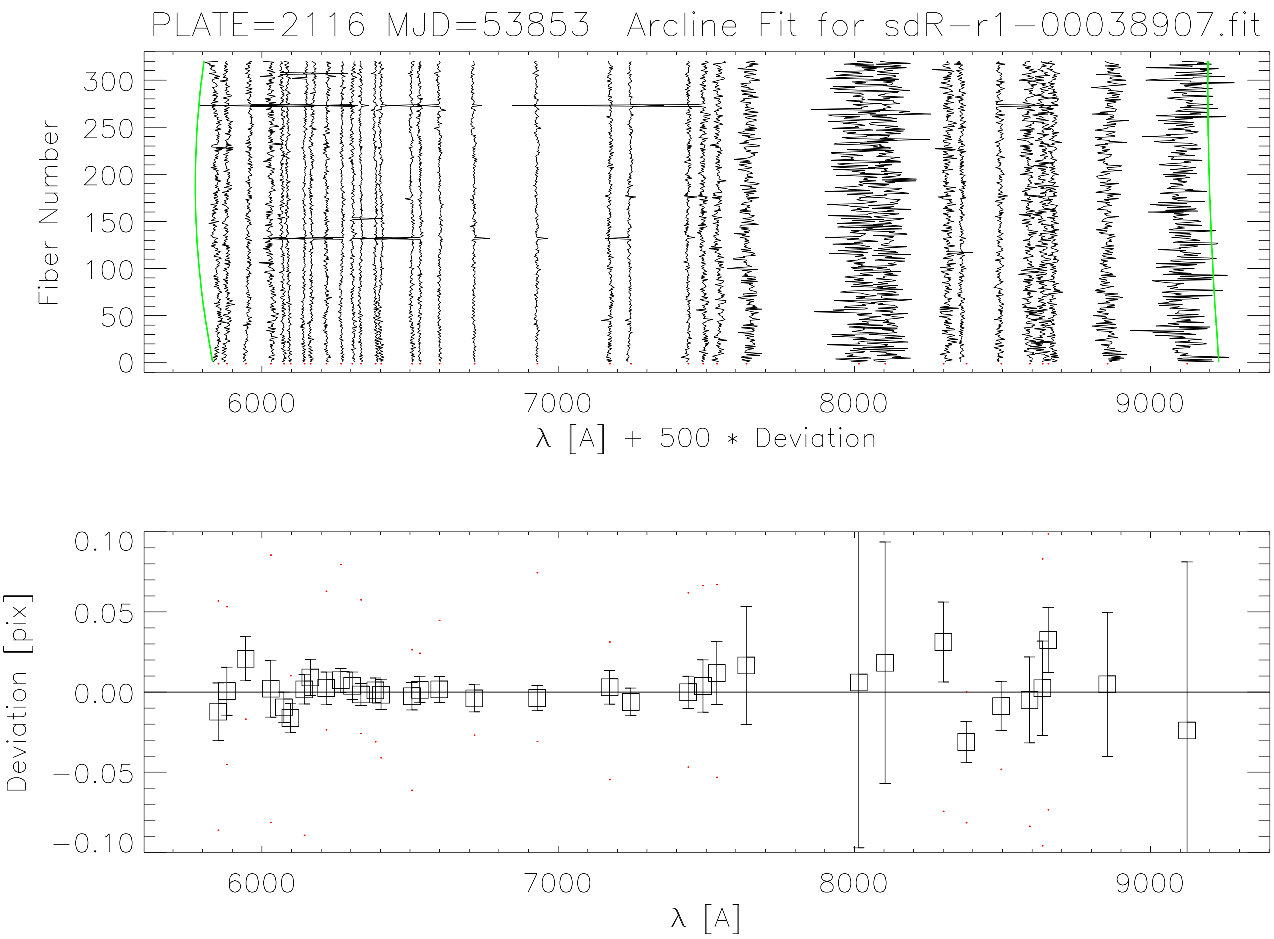

scale coeff residuals from ord=3 poly
2×10^{-5}
0
-2×10^{-5}
0
50
100
150
200
250
300
fiber


PLATE=2116 MJD=53853 flat extraction chi^2 for sdR-r1-00038901.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
0
500
1000
1500
2000
Row number


PLATE=2116 MJD=53853 Superflat sdR-r1-00038901.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]


PLATE=2116 MJD=53853 flat extraction chi^2 for sdR-r1-00038906.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
0
500
1000
1500
2000
Row number


PLATE=2116 MJD=53853 Superflat sdR-r1-00038906.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000



PLATE=2116 MJD=53853 Arcline Fit for sdR-r1-00038907.fit

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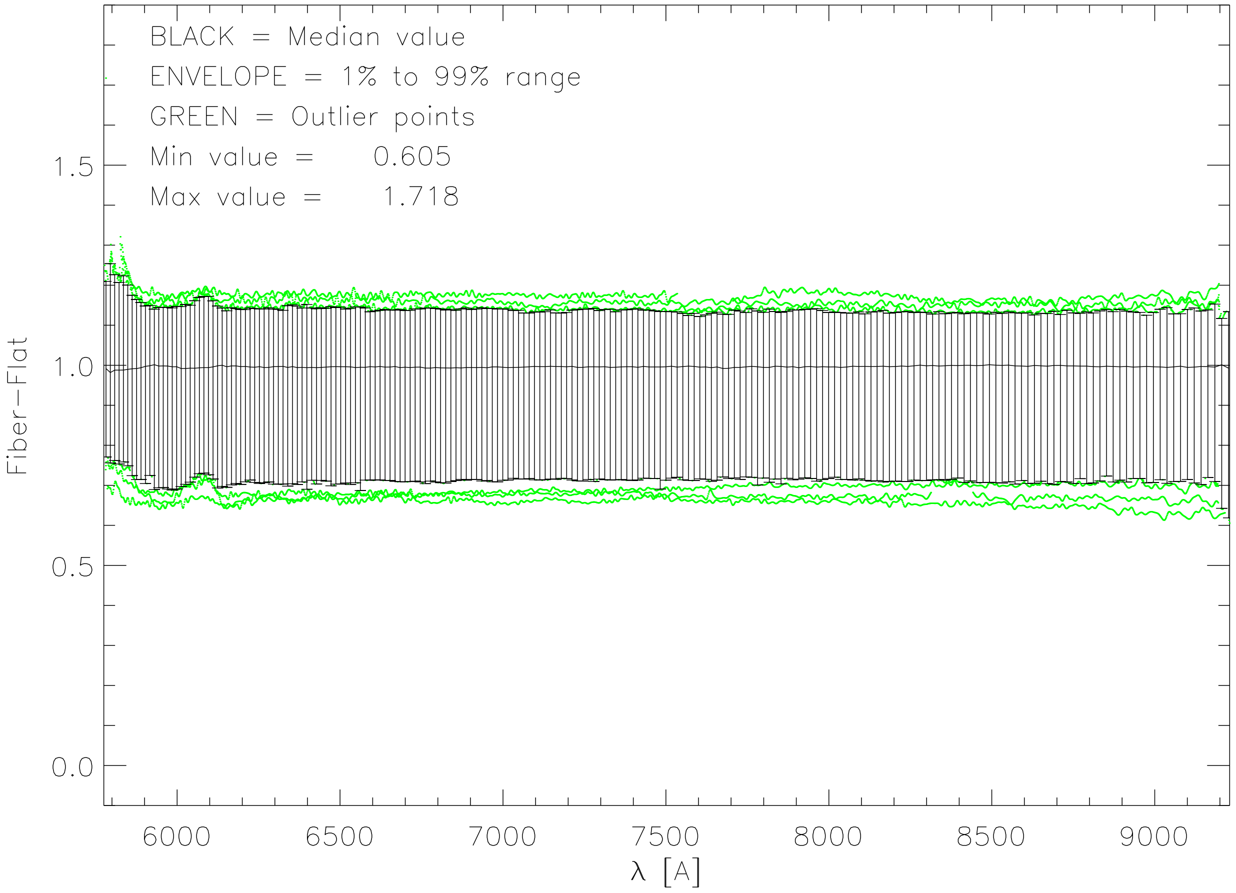
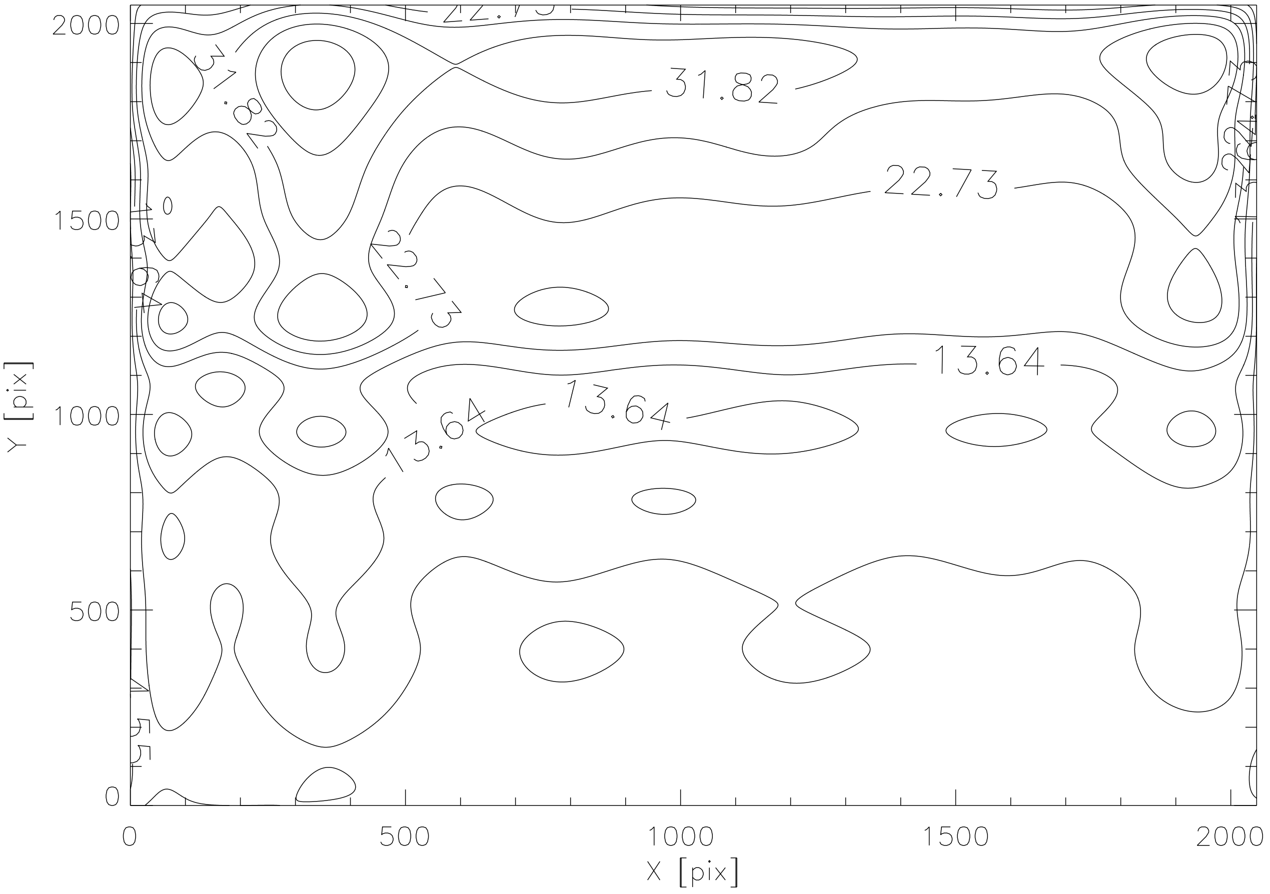
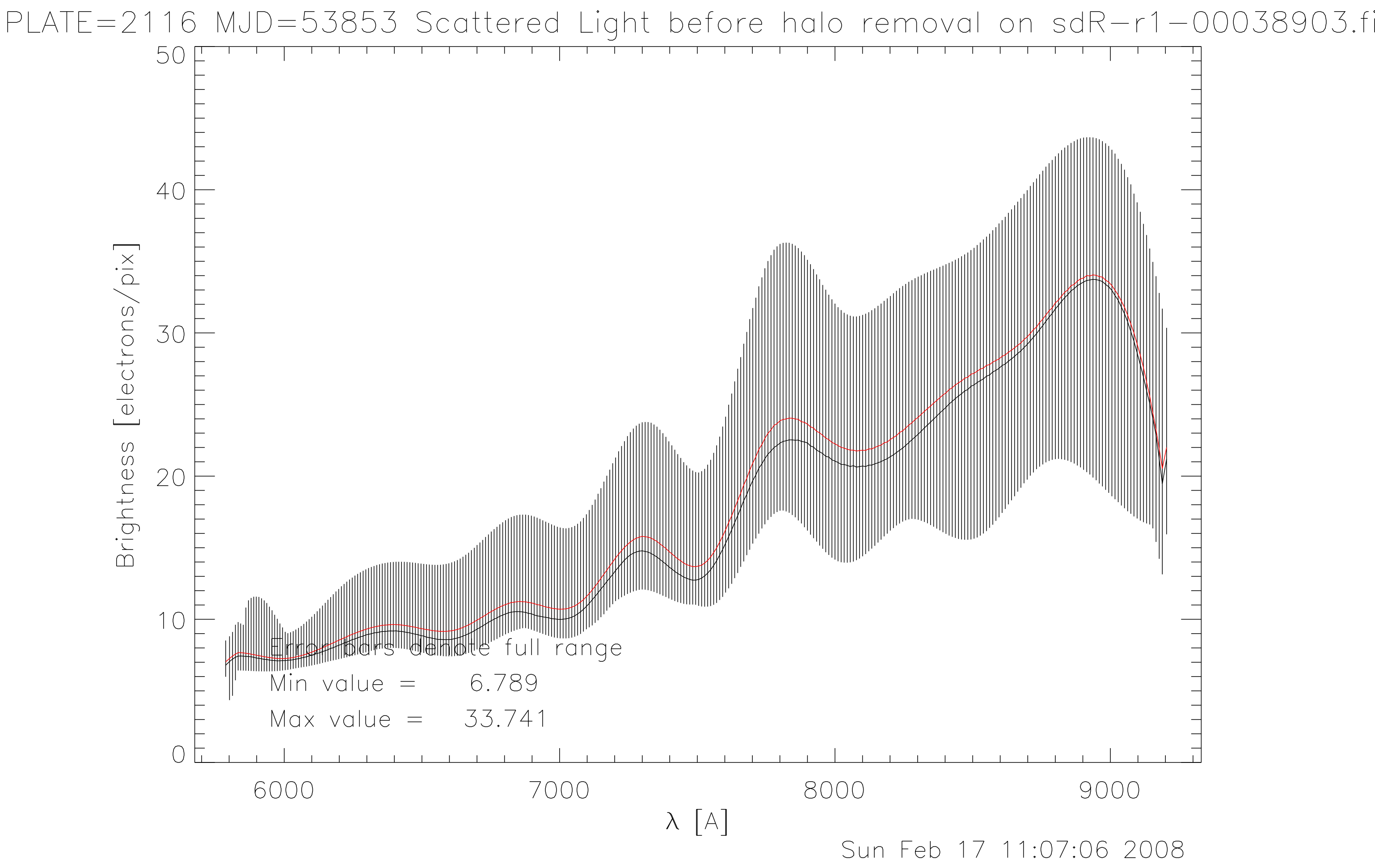
PLATE=2116 MJD=53853 Fiber−Flats for sdR−r1−00038906.fit

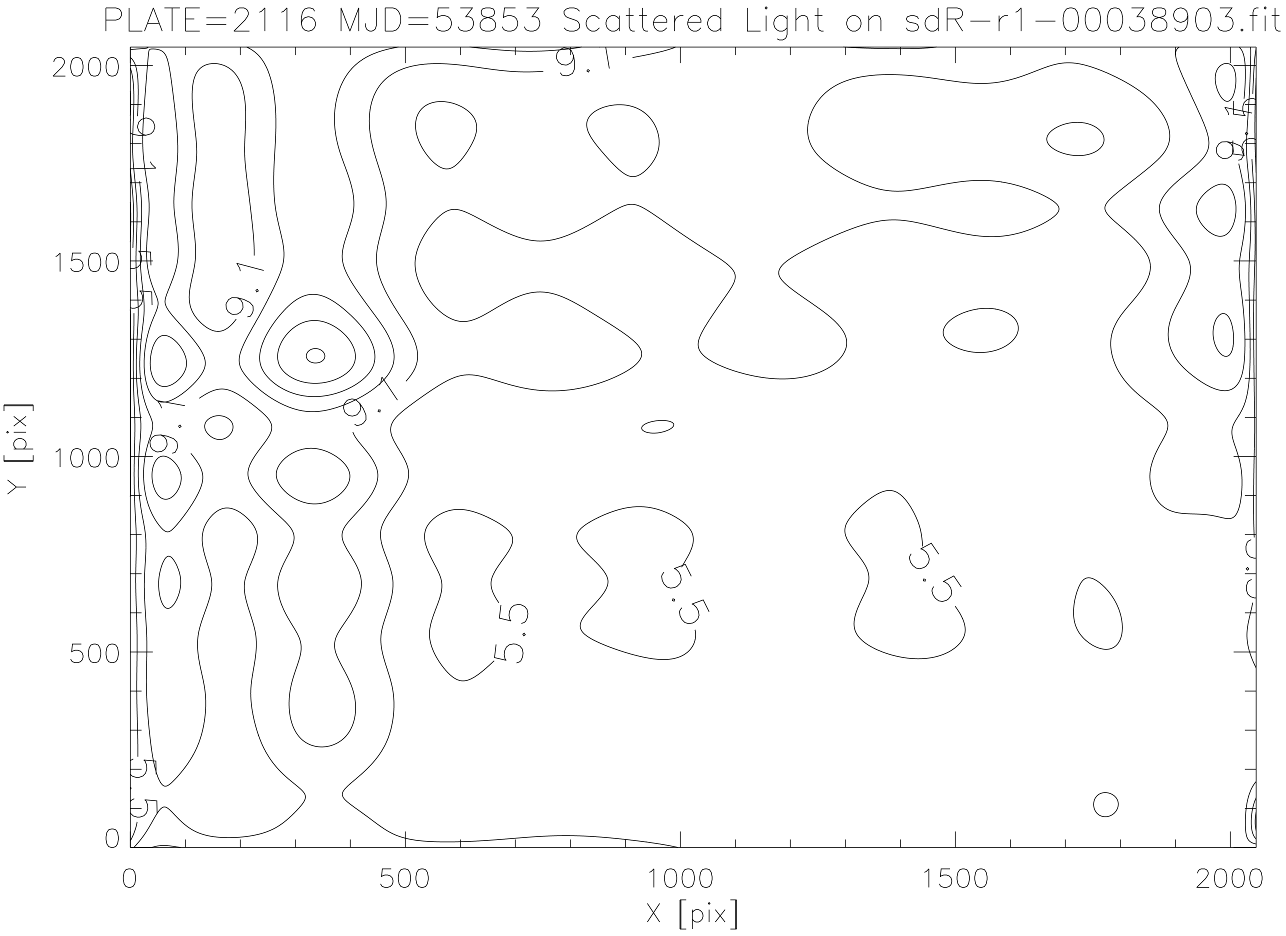


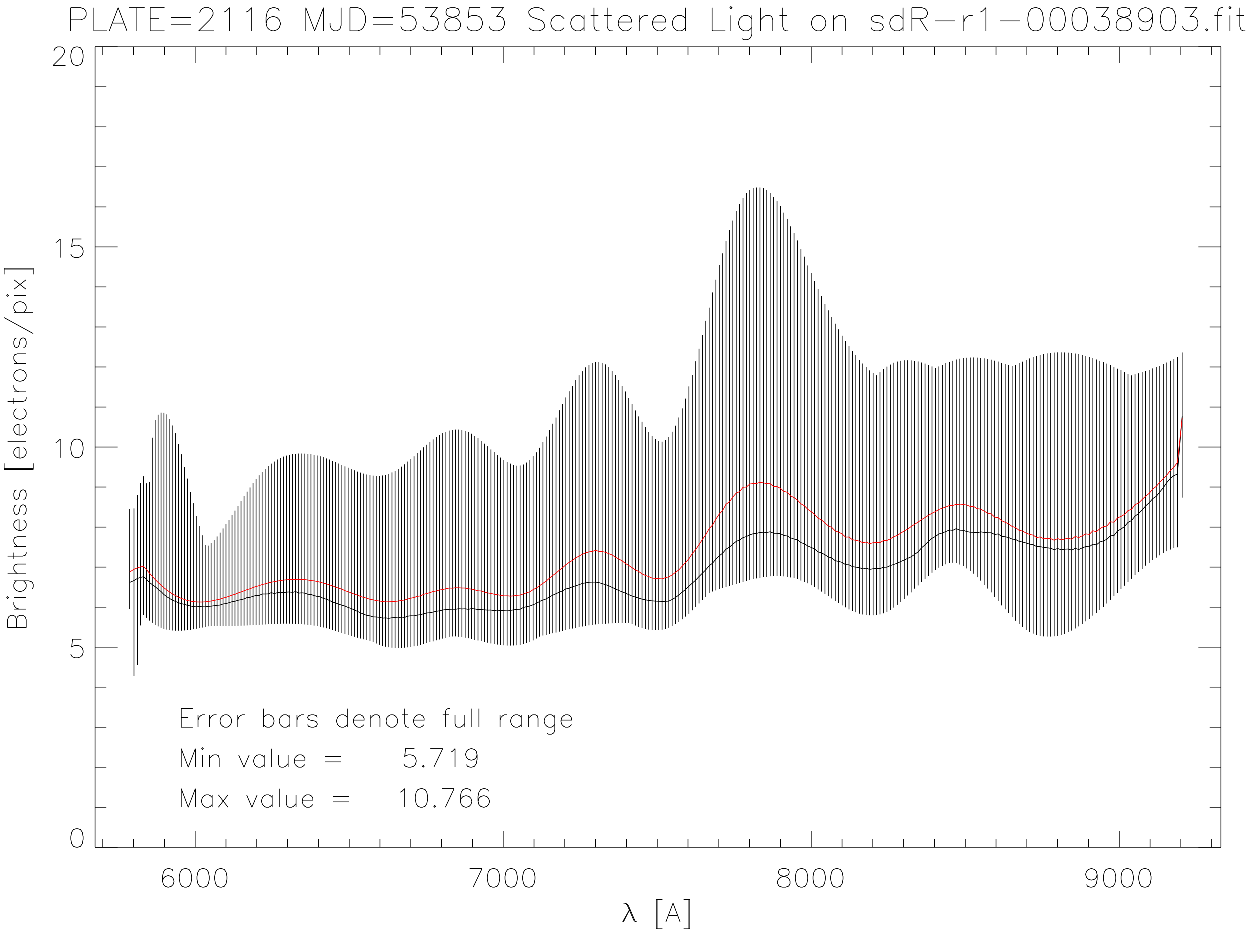
Sun Feb 17 11:06:10 2008

PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-r1-00038903.fi



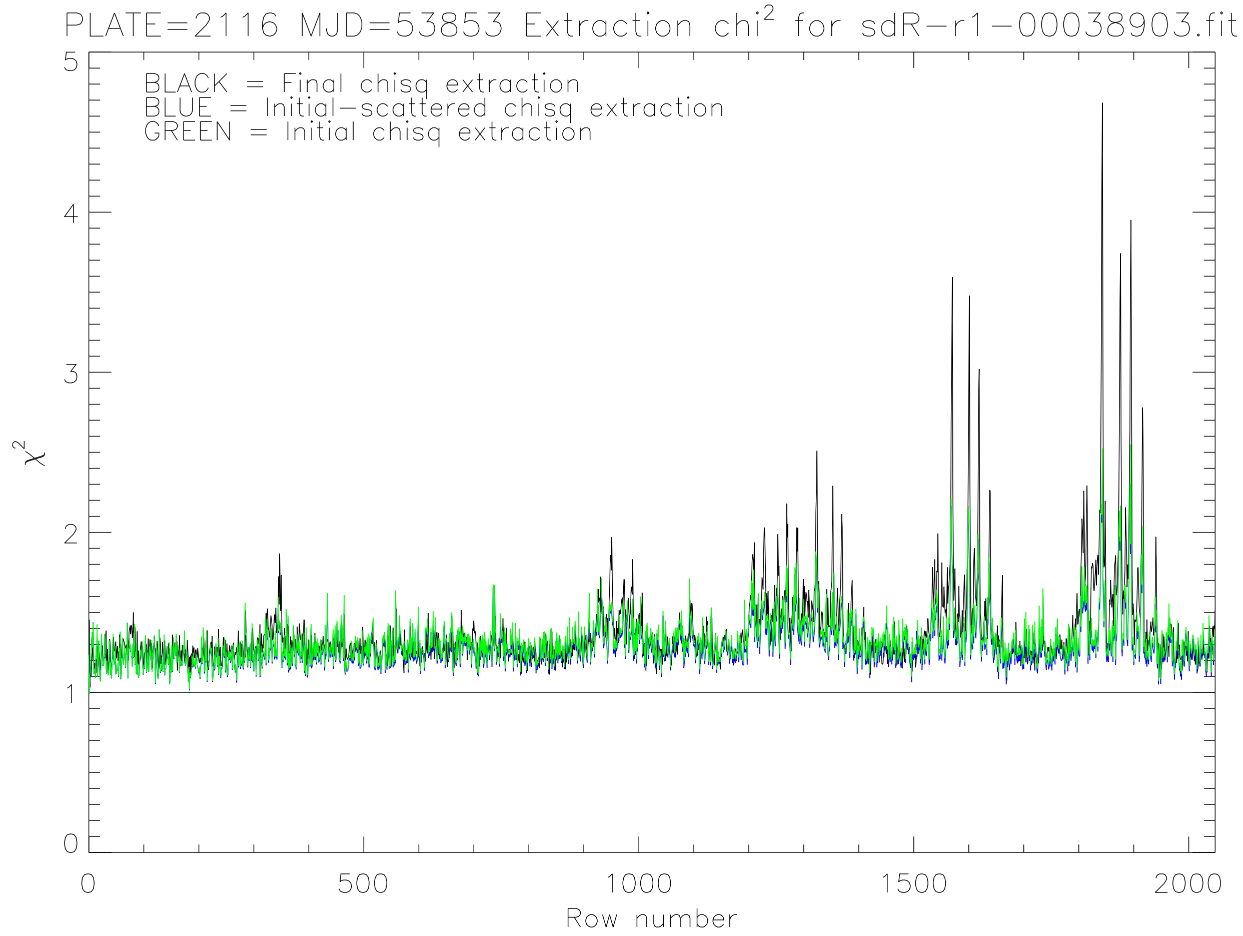

PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-r1-00038903.fi
Brightness [electrons/pix]
50
40
30
20
10
0
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value =   6.789
Max value =   33.741
Sun Feb 17 11:07:06 2008

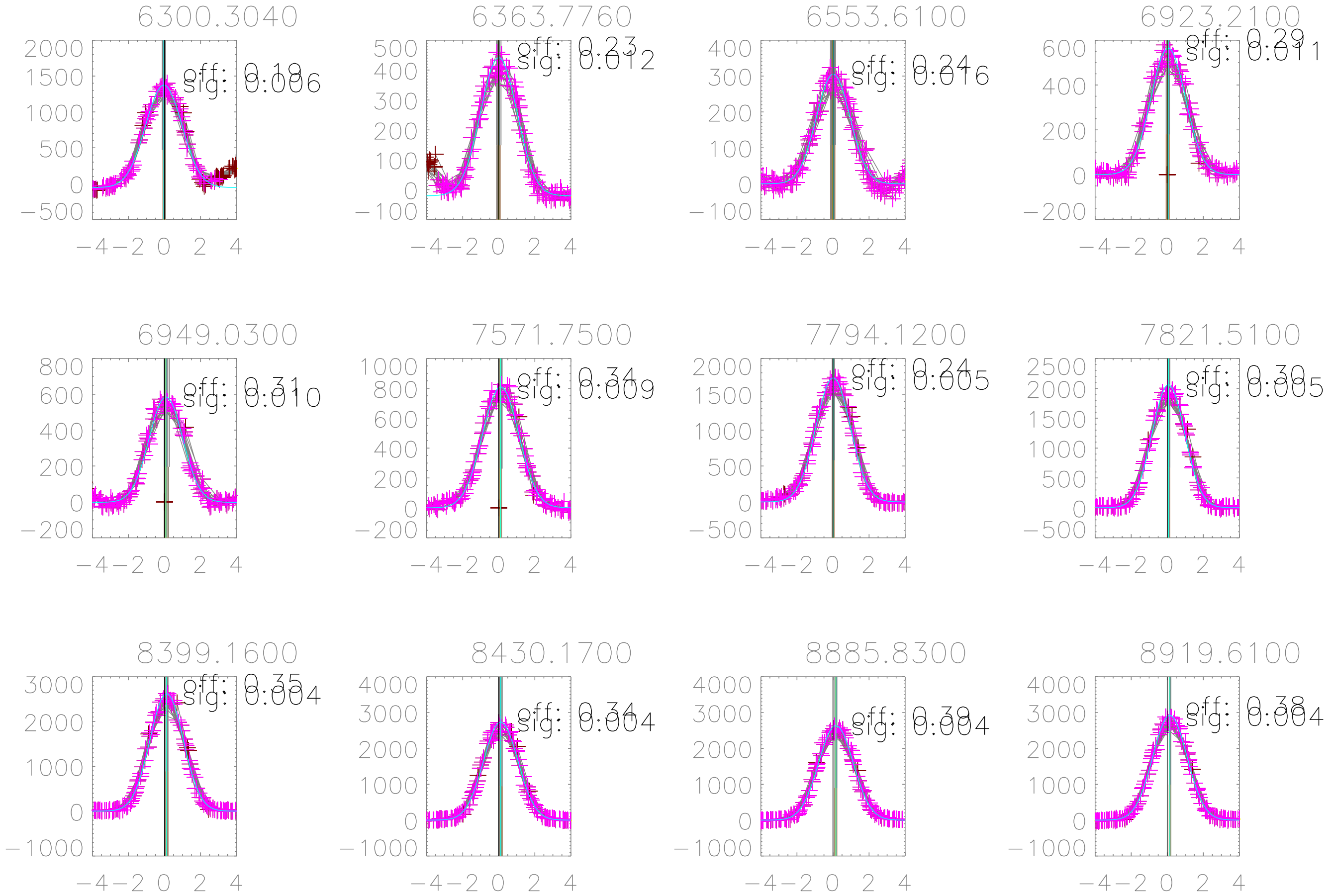

PLATE=2116 MJD=53853 Scattered Light on sdR-r1-00038903.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0
500
1000
1500
2000
9.1
9.1
9.1
9.1
9.1
9.1
9.1
5.5
5.5
5.5
5.5
5.5
5.5
5.5

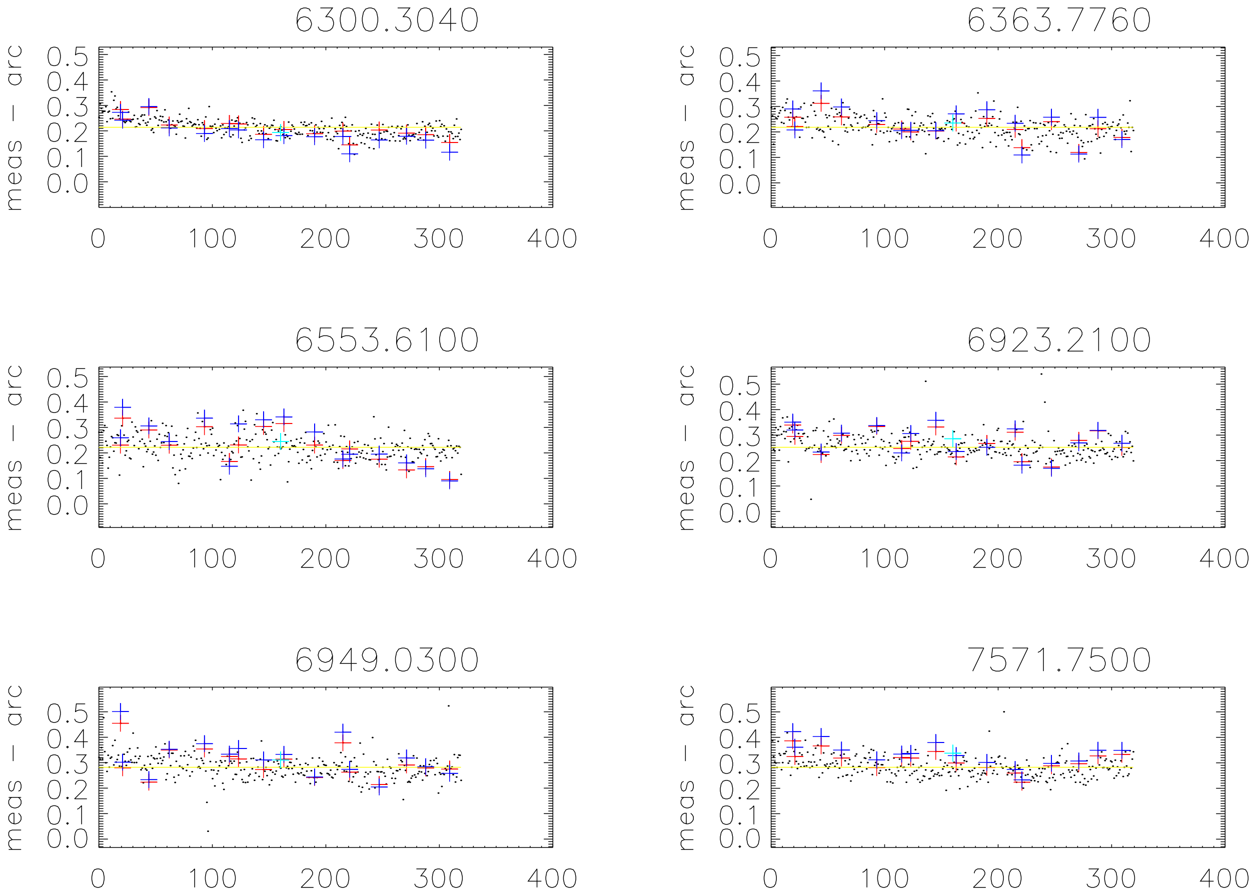


PLATE=2116 MJD=53853 Scattered Light on sdR-r1-00038903.fit

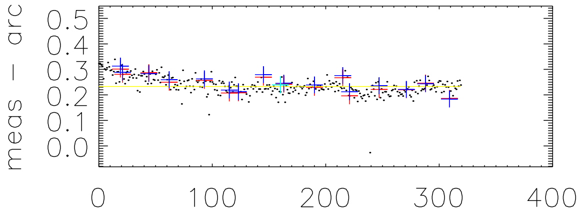
Sun Feb 17 11:10:16 2008


PLATE=2116 MJD=53853 Extraction chi^2 for sdR-r1-00038903.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

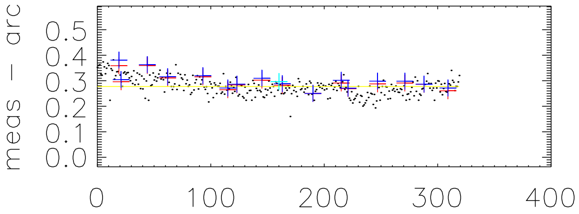

6300.3040
off: 0.19
sig: 0.006
6363.7760
off: 0.23
sig: 0.012
6553.6100
off: 0.24
sig: 0.016
6923.2100
off: 0.29
sig: 0.011
6949.0300
off: 0.31
sig: 0.010
7571.7500
off: 0.34
sig: 0.009
7794.1200
off: 0.24
sig: 0.005
7821.5100
off: 0.30
sig: 0.005
8399.1600
off: 0.35
sig: 0.004
8430.1700
off: 0.34
sig: 0.004
8885.8300
off: 0.39
sig: 0.004
8919.6100
off: 0.38
sig: 0.004
−4 −2 0 2 4


6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
meas − arc
0.0
0.1
0.2
0.3
0.4
0.5
0
100
200
300
400

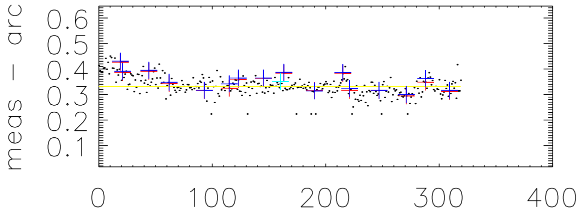
7794.1200



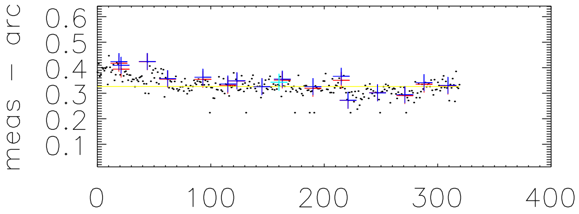
7821.5100



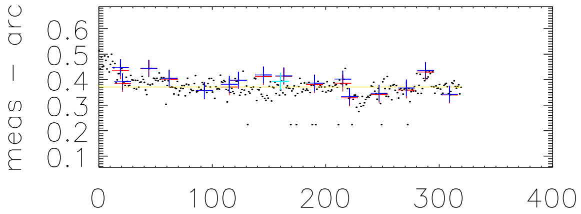
8399.1600



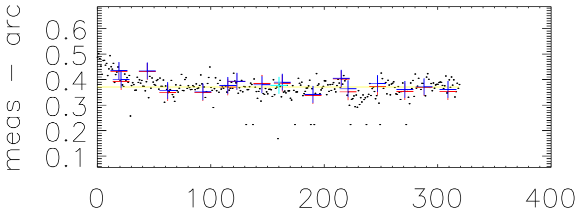
8430.1700

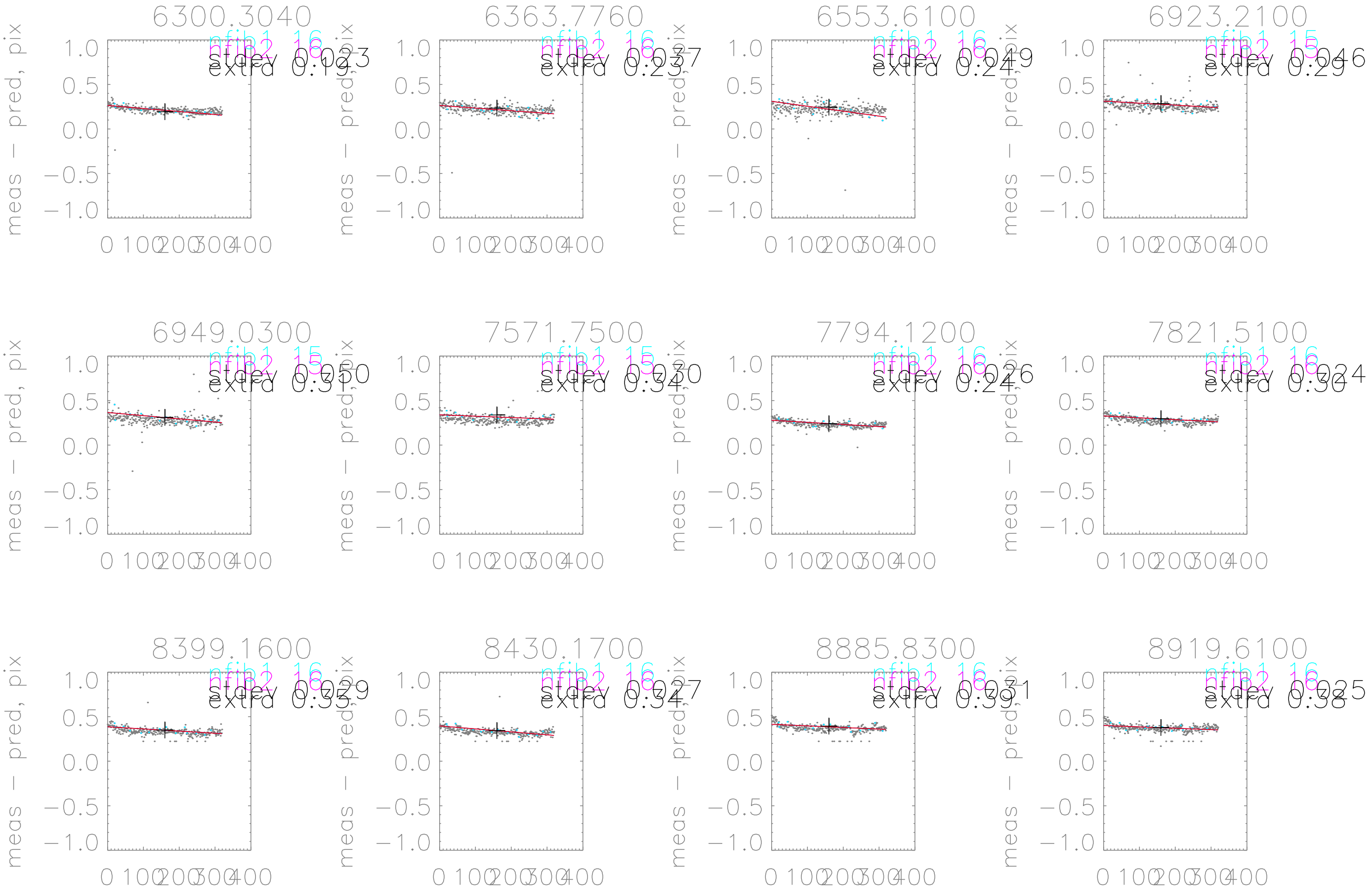


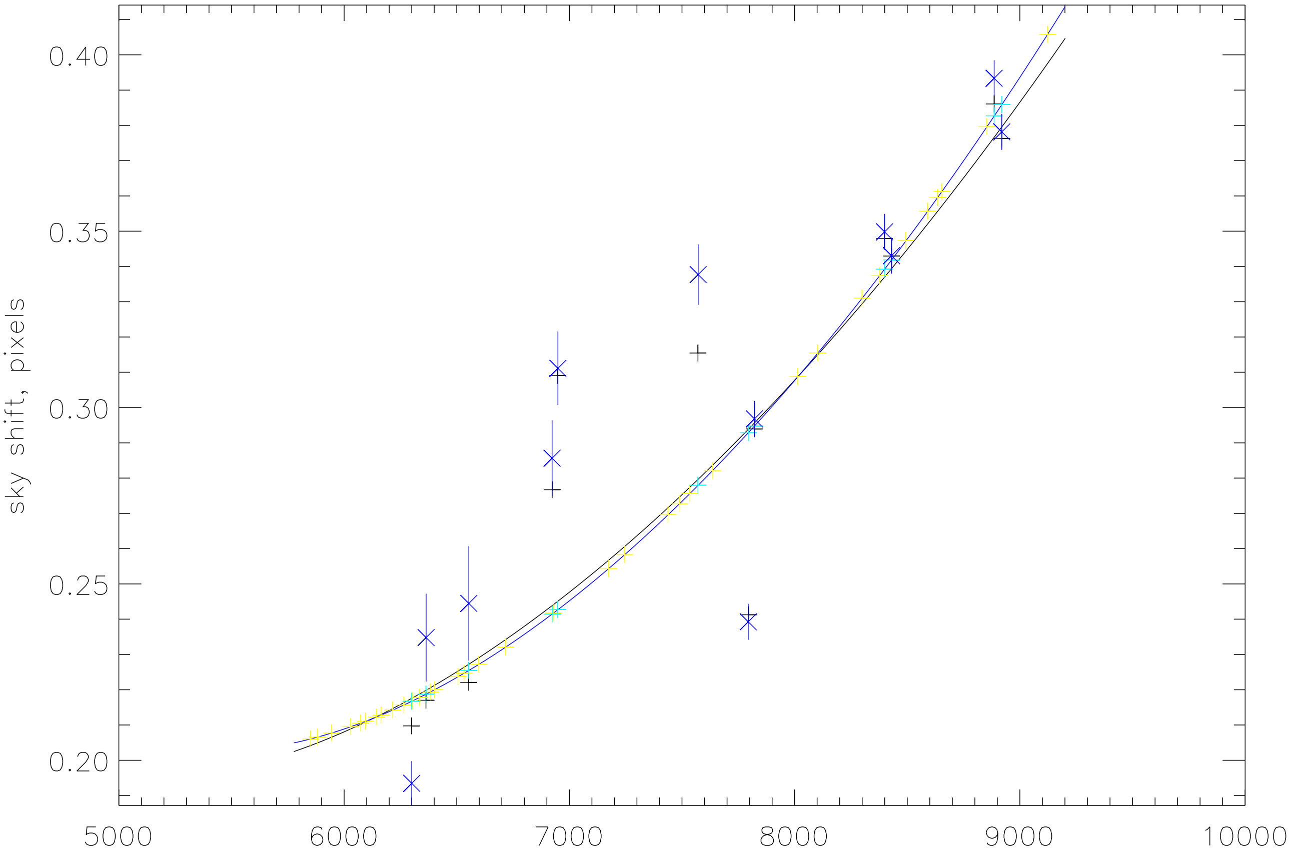
8885.8300

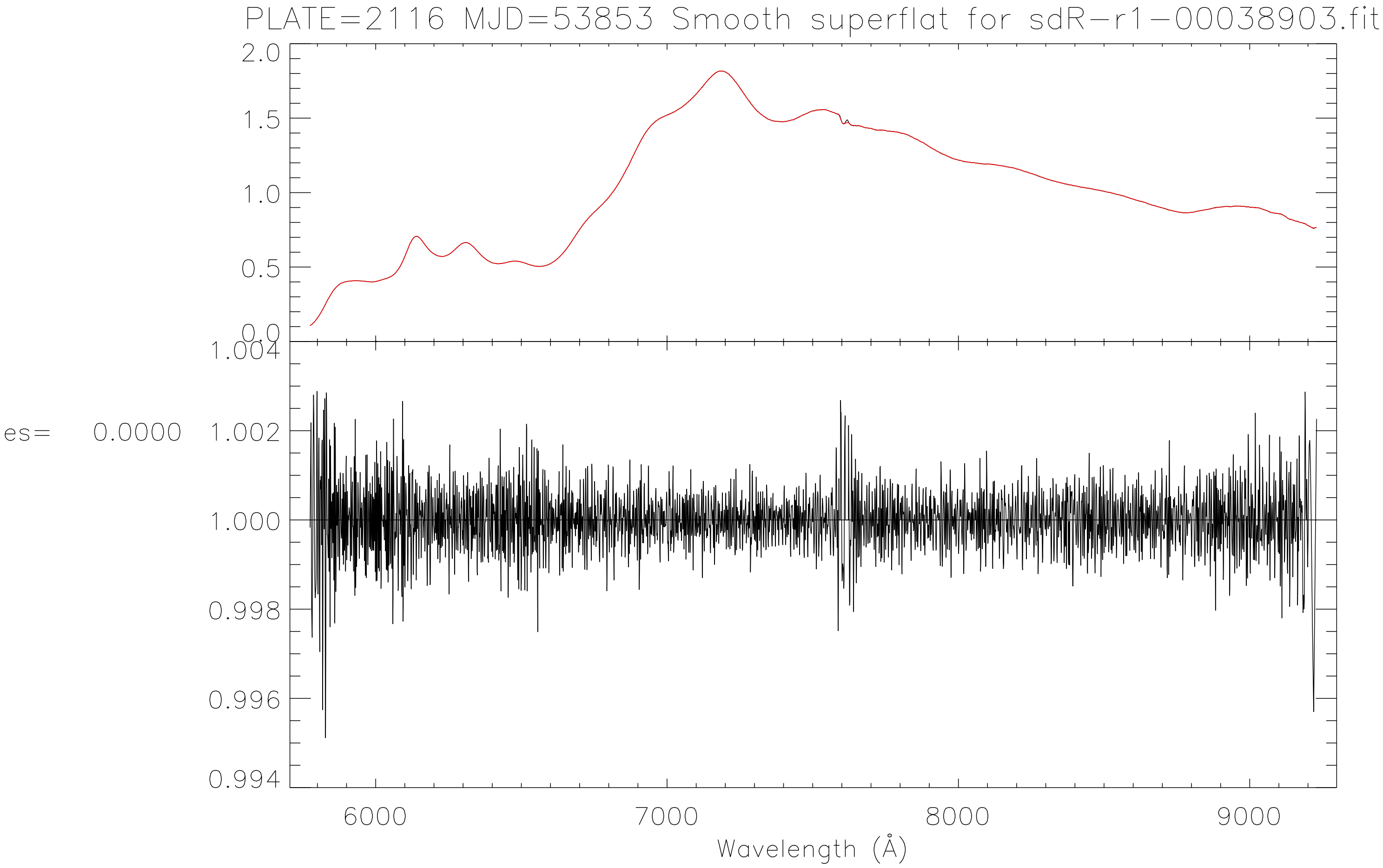


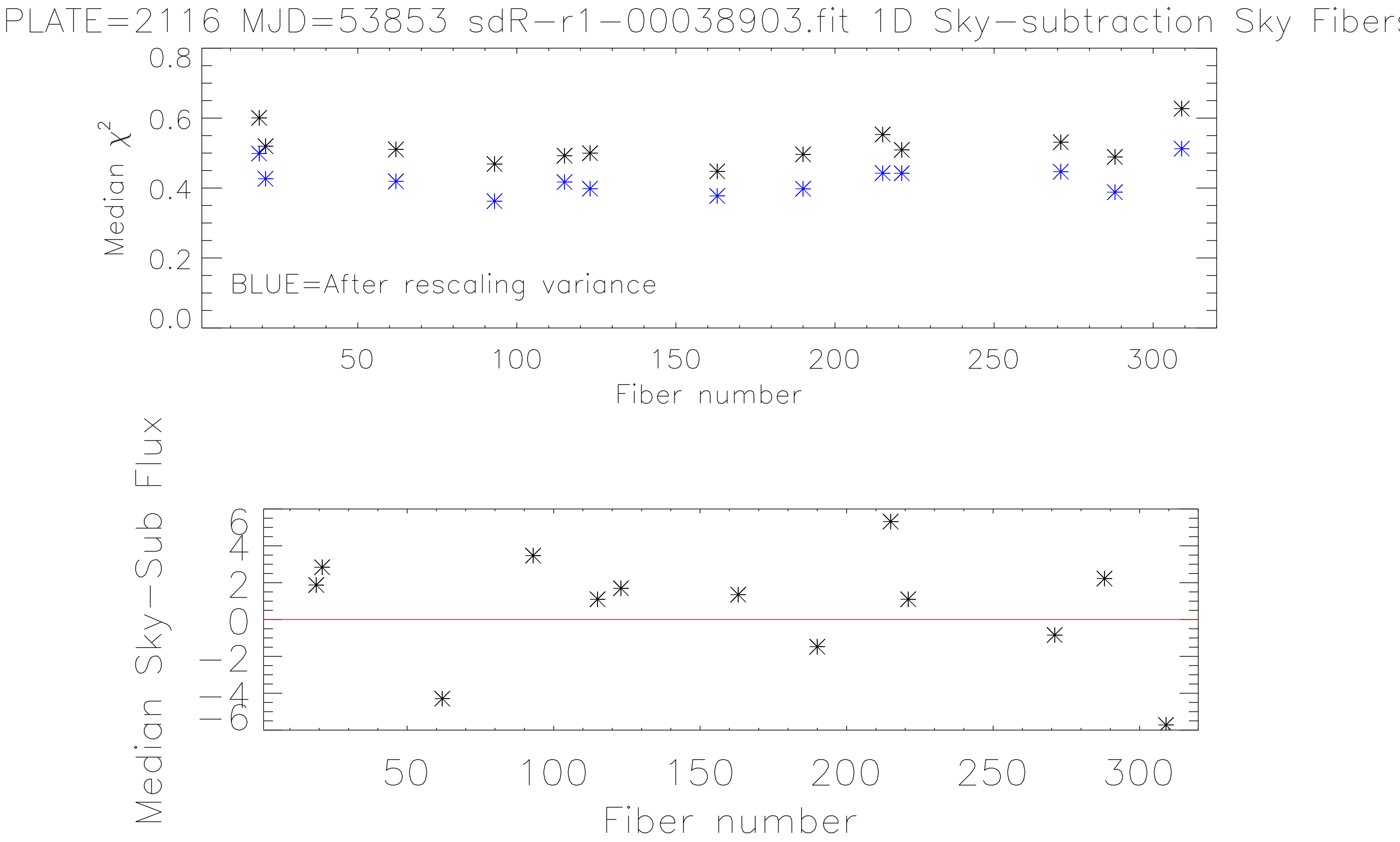
8919.6100

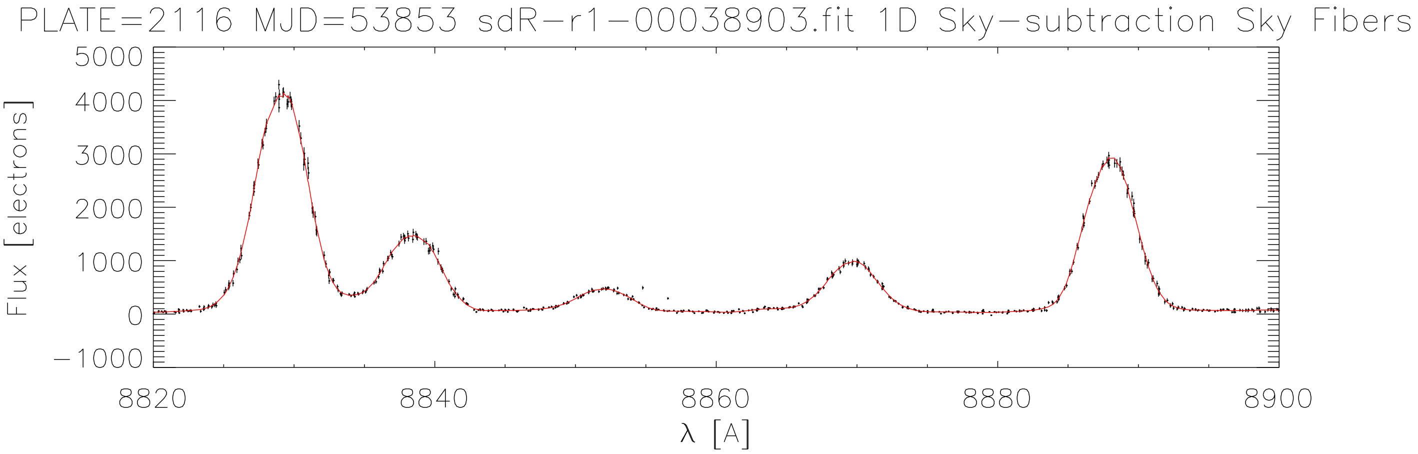



6300.3040
nfib1 16
nfib2 16
stdev 0.023
extrd 0.19
6363.7760
nfib1 16
nfib2 16
stdev 0.037
extrd 0.23
6553.6100
nfib1 16
nfib2 16
stdev 0.049
extrd 0.24
6923.2100
nfib1 15
nfib2 15
stdev 0.046
extrd 0.29
6949.0300
nfib1 15
nfib2 15
stdev 0.050
extrd 0.31
7571.7500
nfib1 15
nfib2 15
stdev 0.030
extrd 0.34
7794.1200
nfib1 16
nfib2 16
stdev 0.026
extrd 0.24
7821.5100
nfib1 16
nfib2 16
stdev 0.024
extrd 0.30
8399.1600
nfib1 16
nfib2 16
stdev 0.029
extrd 0.33
8430.1700
nfib1 16
nfib2 16
stdev 0.027
extrd 0.34
8885.8300
nfib1 16
nfib2 16
stdev 0.031
extrd 0.39
8919.6100
nfib1 16
nfib2 16
stdev 0.025
extrd 0.38
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

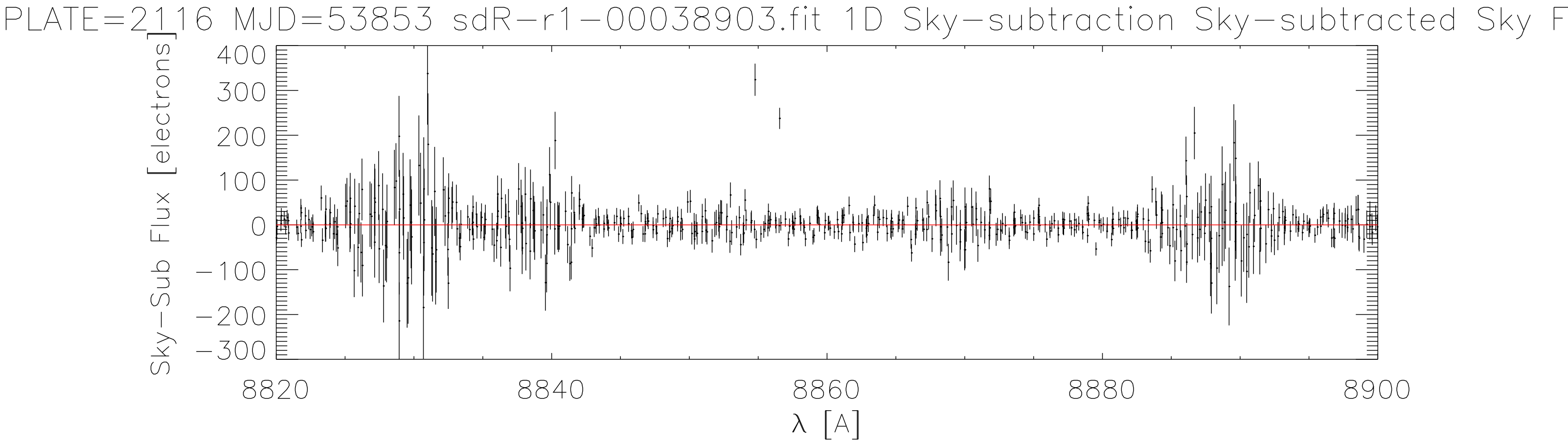

sky shift, pixels
0.20
0.25
0.30
0.35
0.40
5000
6000
7000
8000
9000
10000


PLATE=2116 MJD=53853 Smooth superflat for sdR-r1-00038903.fit

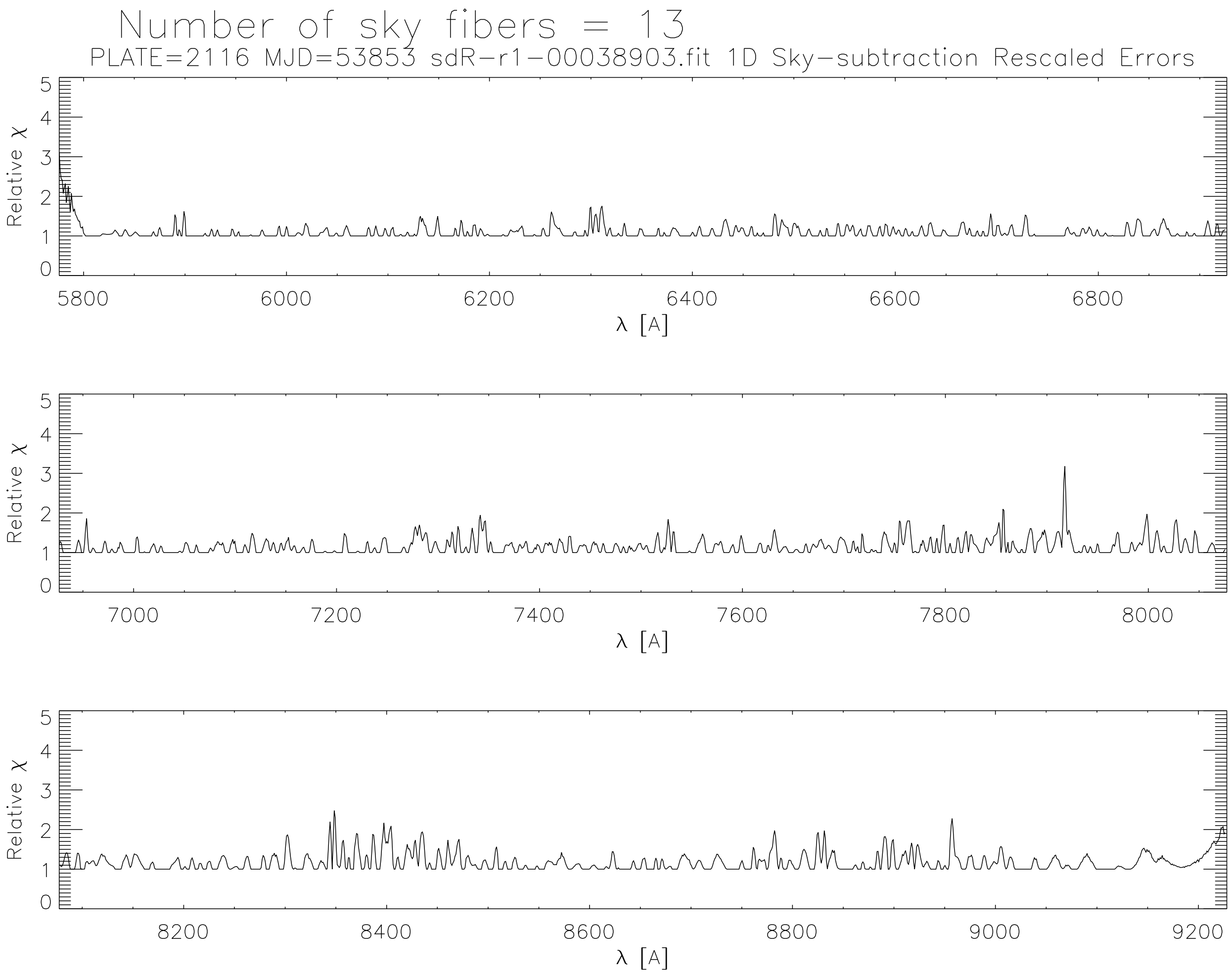

PLATE=2116 MJD=53853 sdR-r1-00038903.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number



PLATE=2116 MJD=53853 sdR-r1-00038903.fit 1D Sky-subtraction Sky Fibers

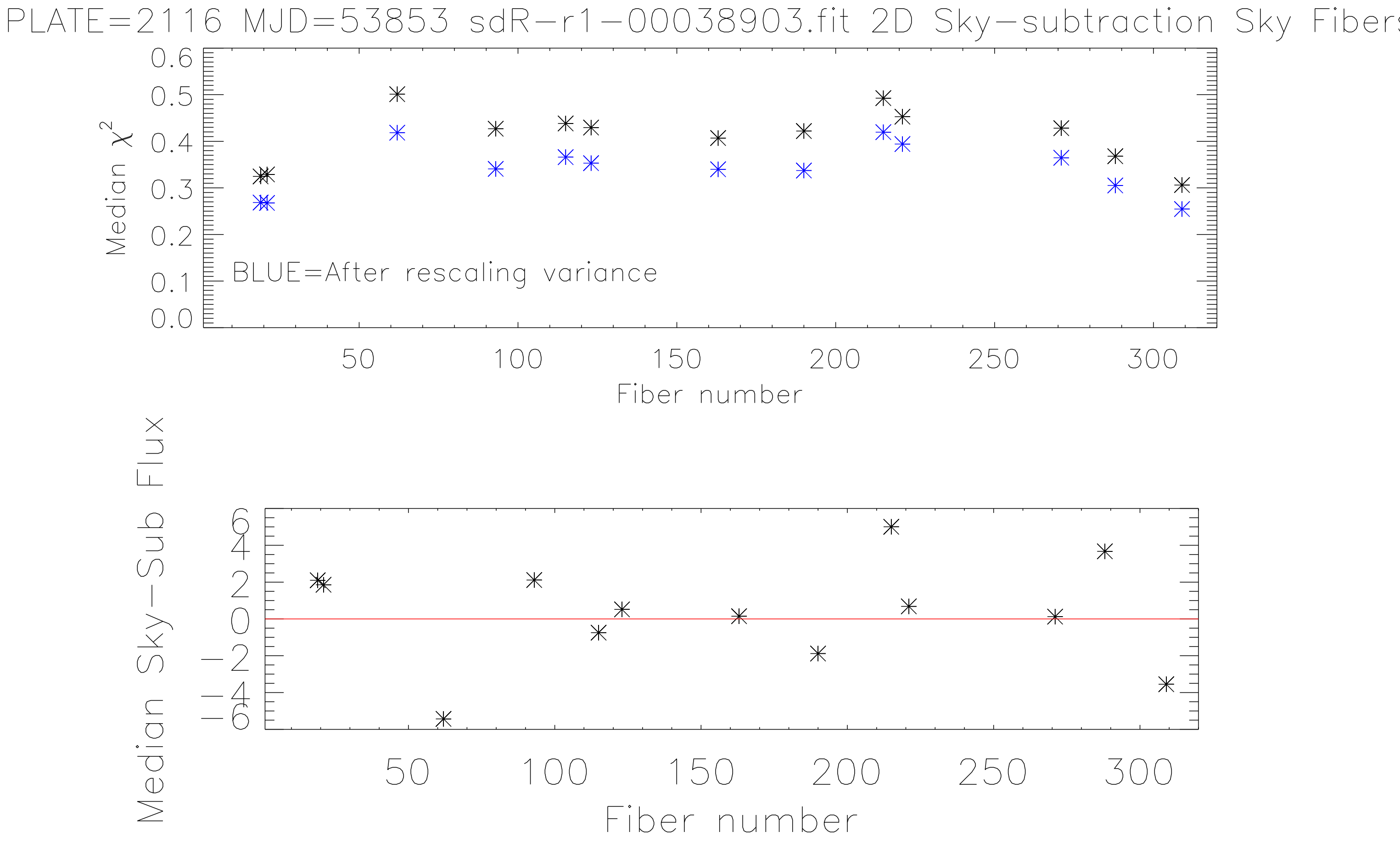


PLATE=2116 MJD=53853 sdR-r1-00038903.fit 1D Sky-subtraction Sky-subtracted Sky F

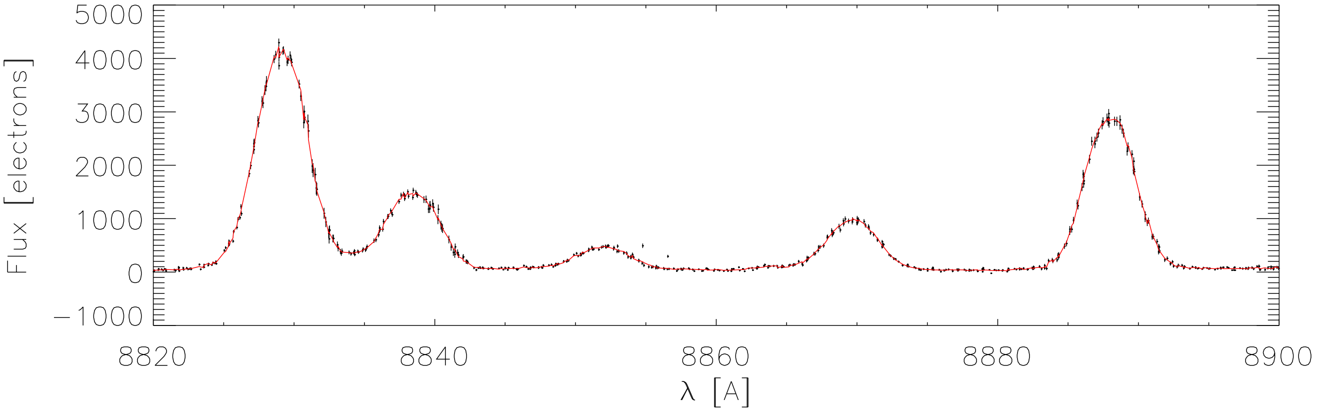


Number of sky fibers = 13

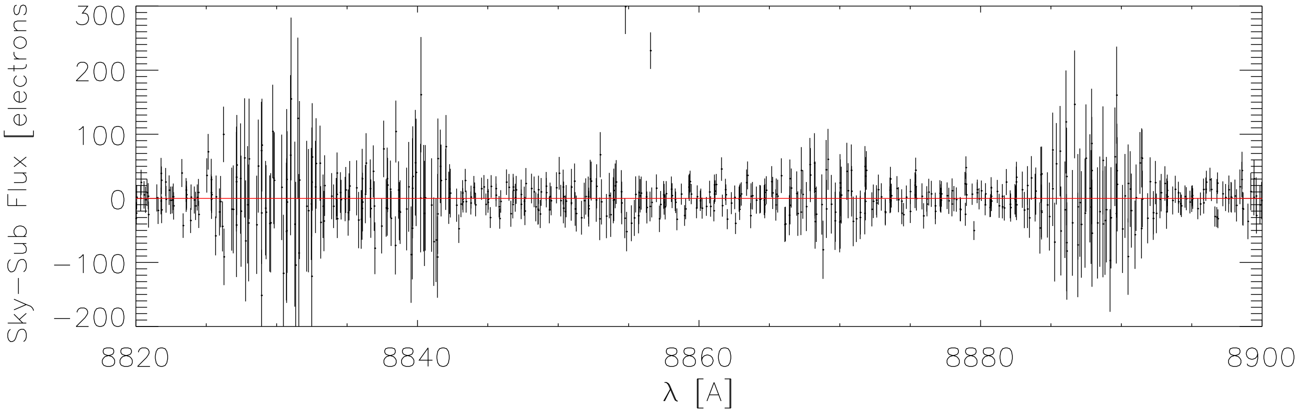
PLATE=2116 MJD=53853 sdR-r1-00038903.fit 1D Sky-subtraction Rescaled Errors


PLATE=2116 MJD=53853 sdR-r1-00038903.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
6
4
2
0
-2
-4
-6
50
100
150
200
250
300
Fiber number

PLATE=2116 MJD=53853 sdR-r1-00038903.fit 2D Sky-subtraction Sky Fibers

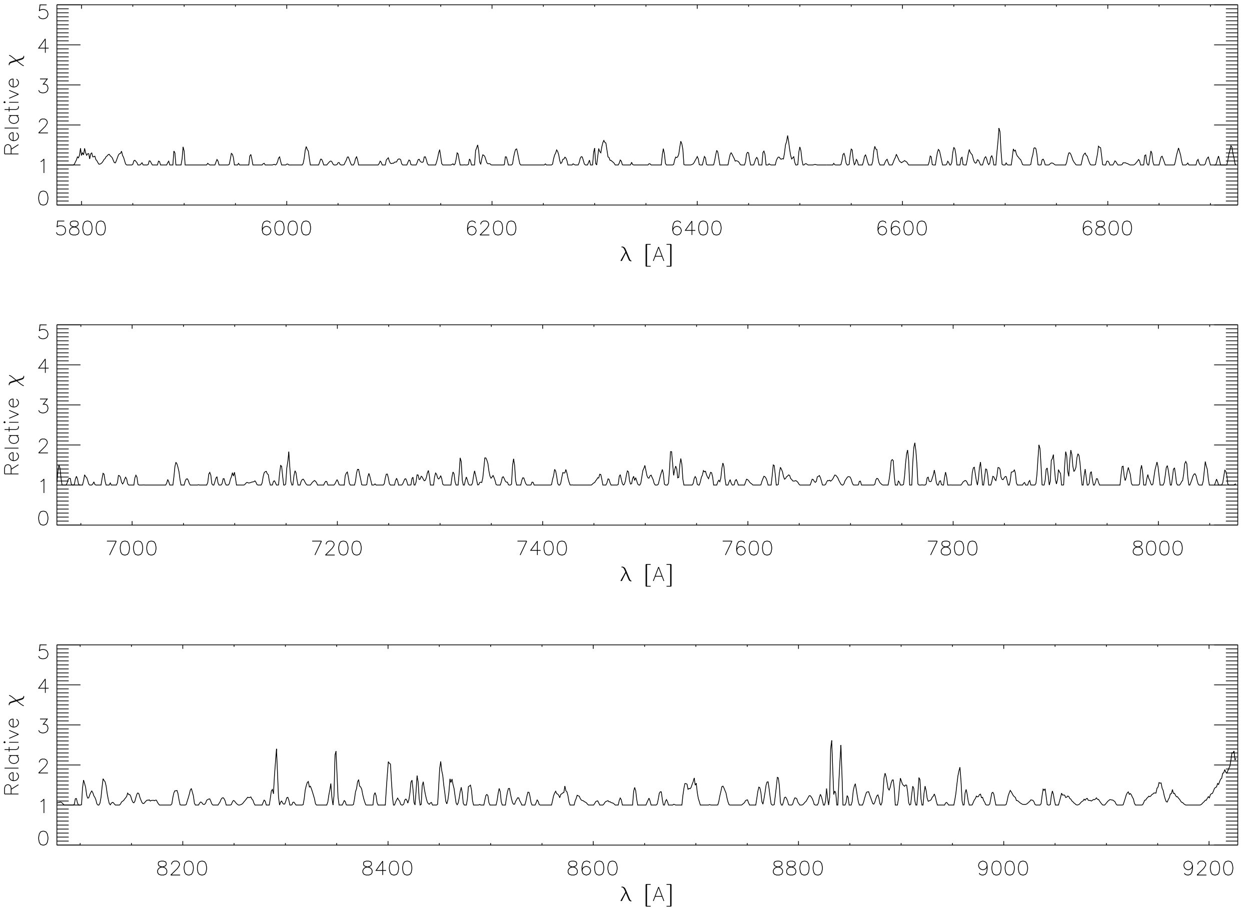


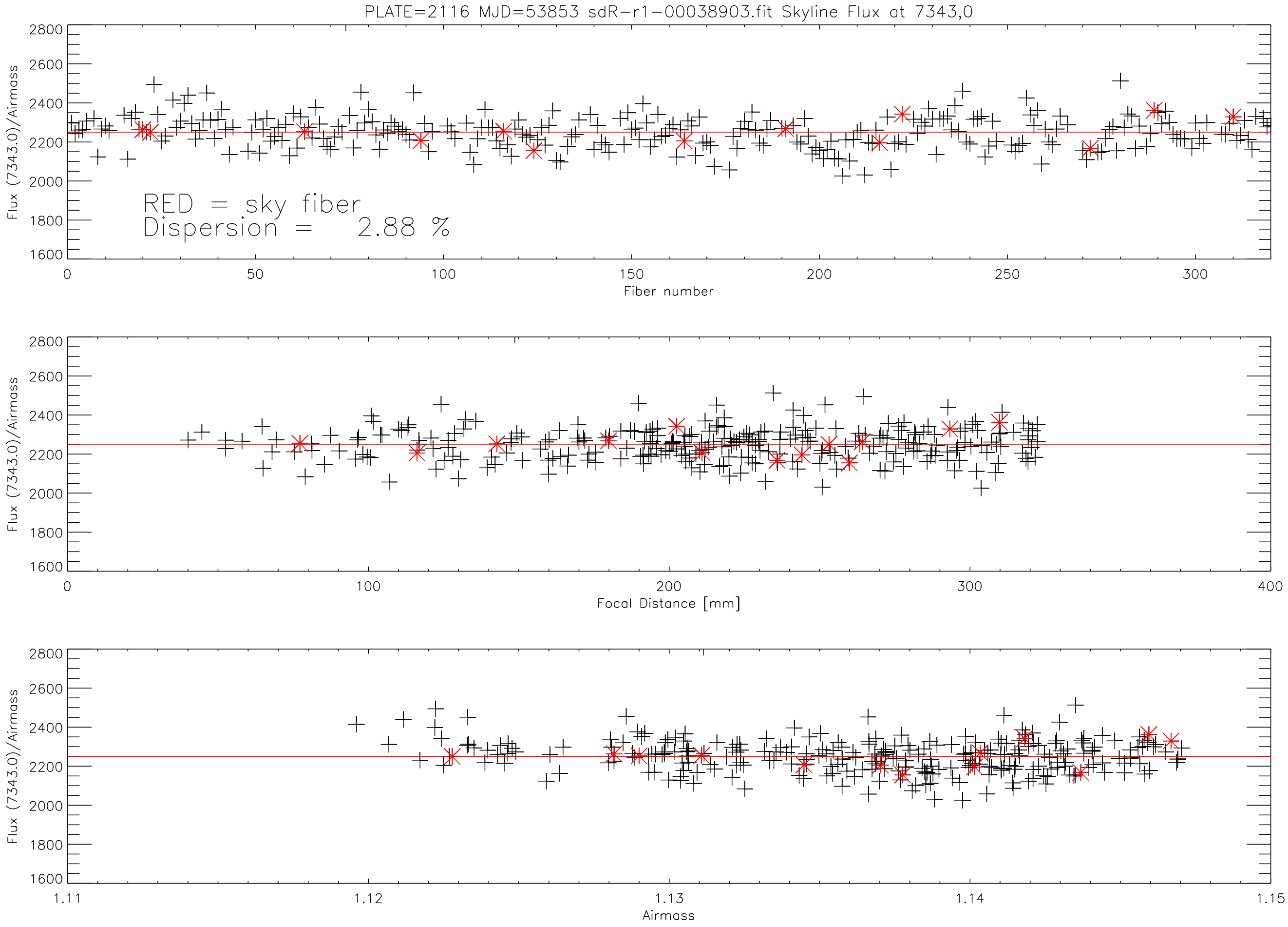
PLATE=2116 MJD=53853 sdR-r1-00038903.fit 2D Sky-subtraction Sky-subtracted Sky F

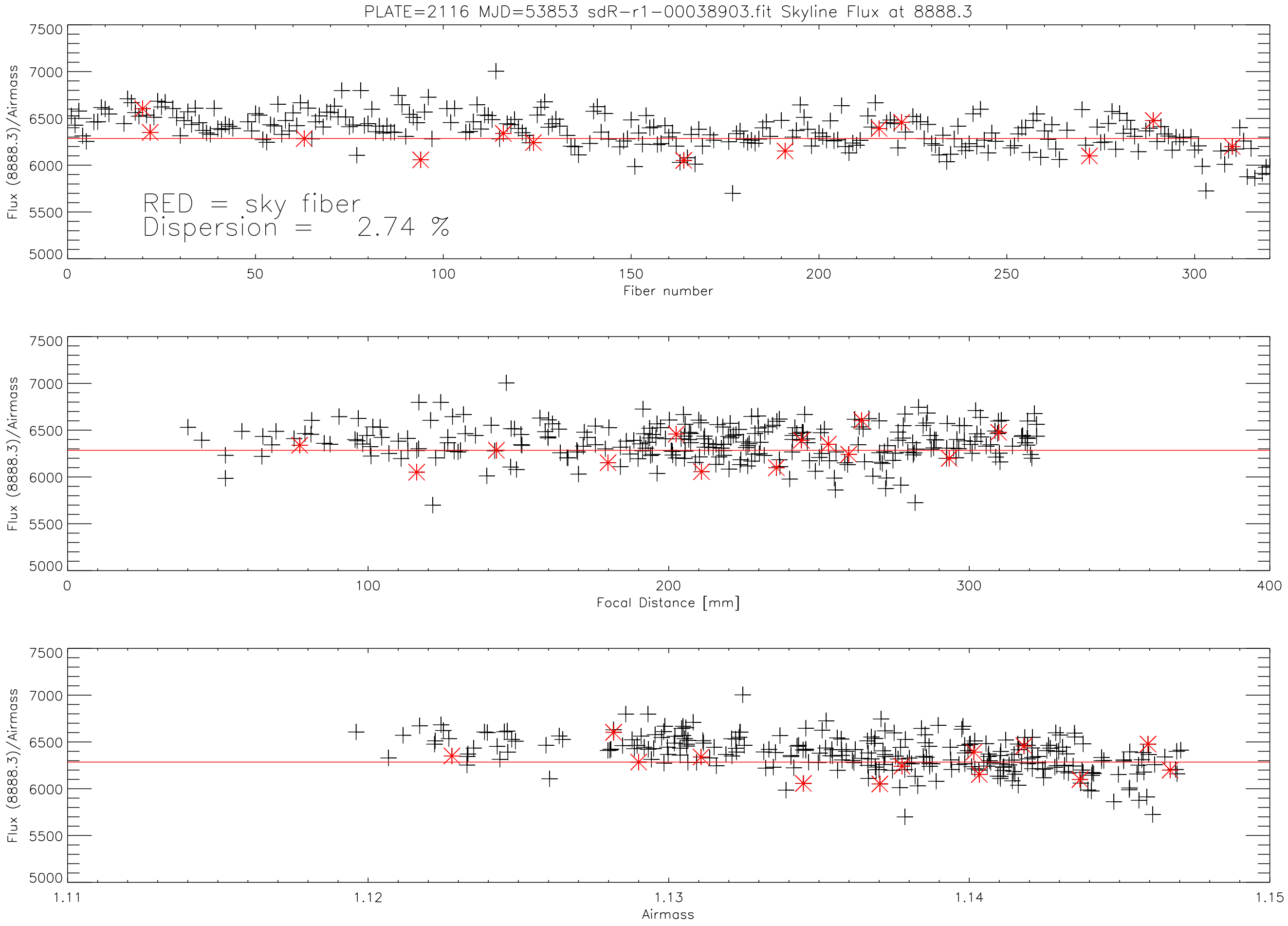


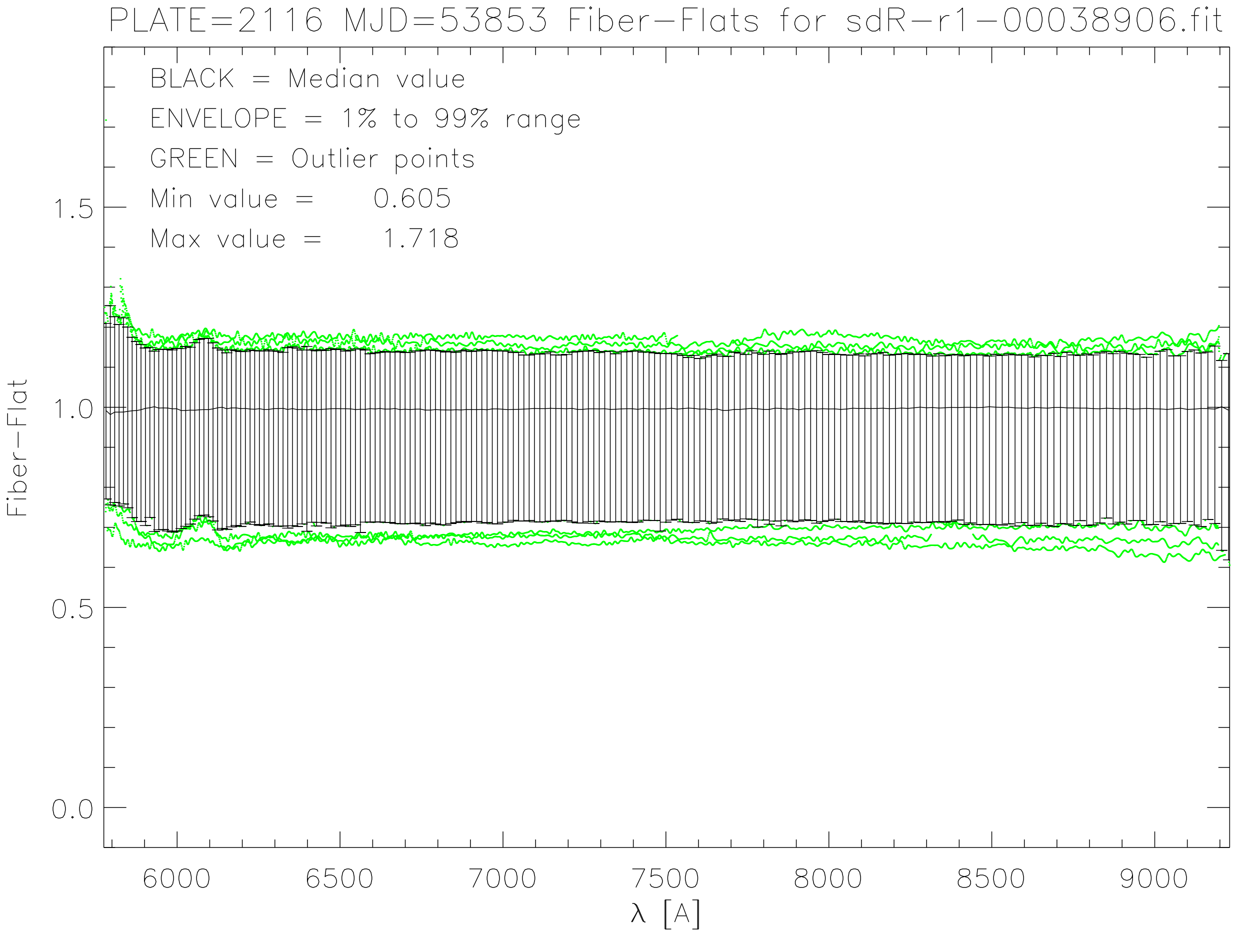
Number of sky fibers = 13

PLATE=2116 MJD=53853 sdR-r1-00038903.fit 2D Sky-subtraction Rescaled Errors

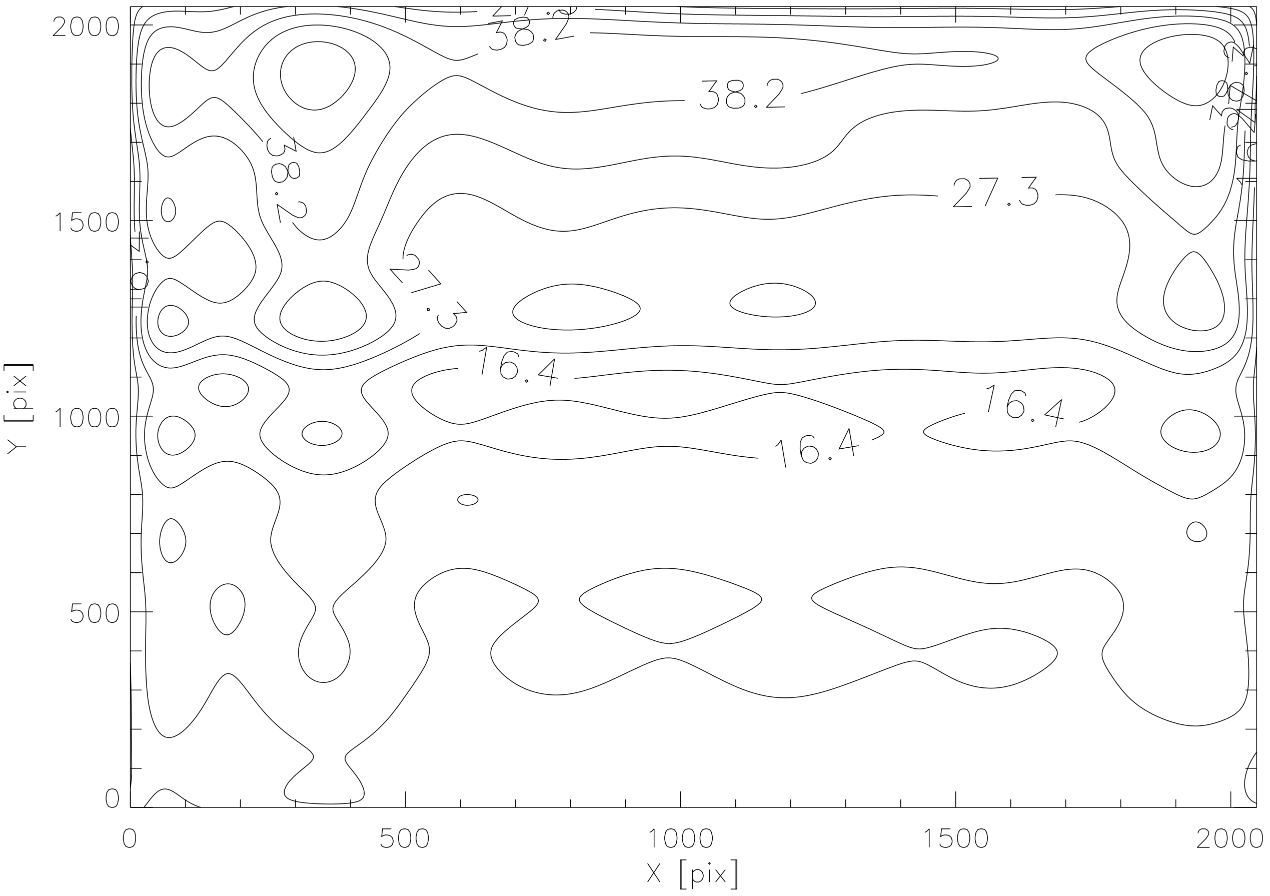



PLATE=2116 MJD=53853 sdR−r1−00038903.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
2800
2600
2400
2200
2000
1800
1600
RED = sky fiber
Dispersion = 2.88 %
0
50
100
150
200
250
300
Fiber number
Flux (7343.0)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (7343.0)/Airmass
1.11
1.12
1.13
1.14
1.15
Airmass

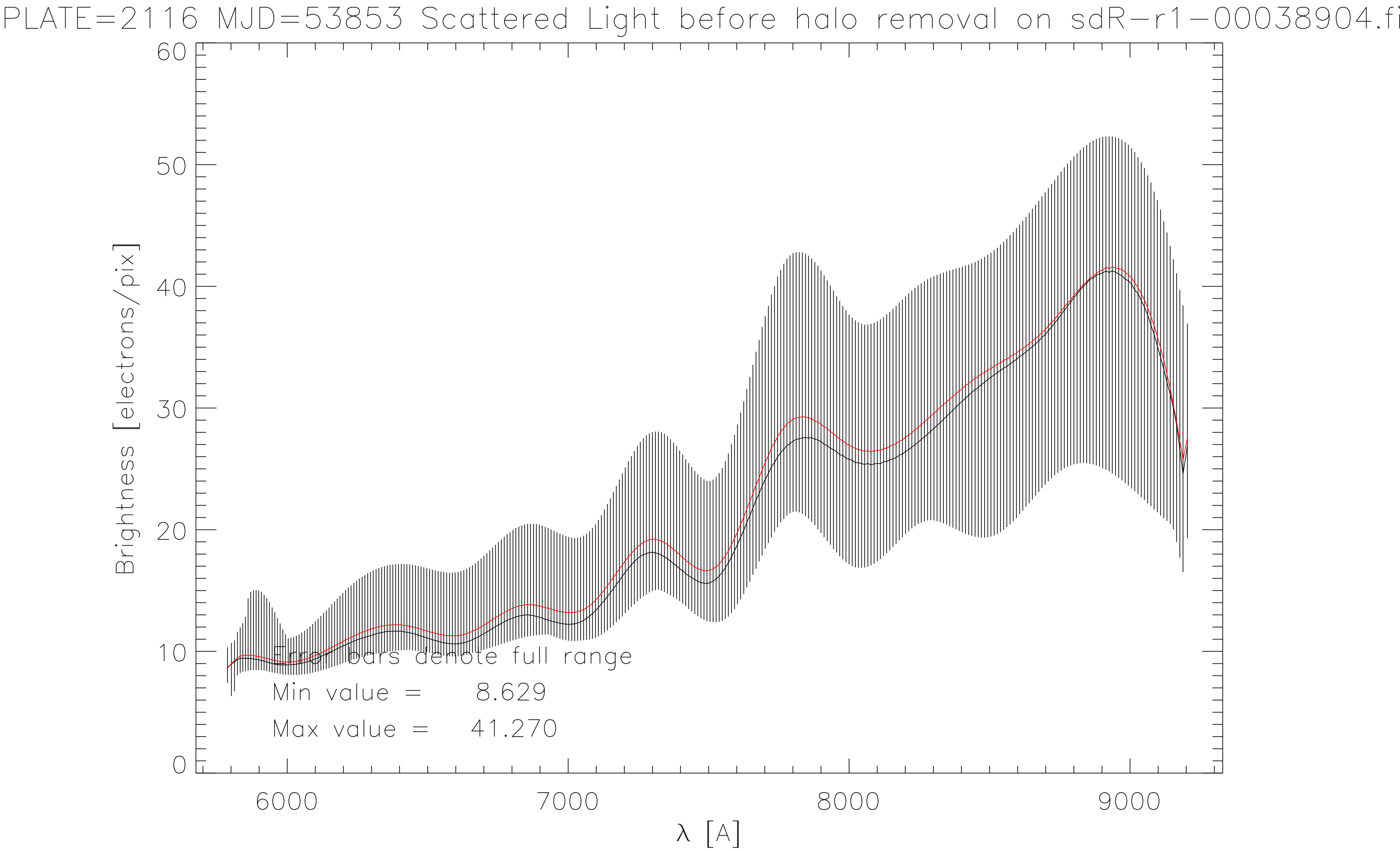

PLATE=2116 MJD=53853 sdR-r1-00038903.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
7500
7000
6500
6000
5500
5000
RED = sky fiber
Dispersion = 2.74 %
0
50
100
150
200
250
300
Fiber number
Flux (8888.3)/Airmass
7500
7000
6500
6000
5500
5000
0
100
200
300
400
Focal Distance [mm]
Flux (8888.3)/Airmass
7500
7000
6500
6000
5500
5000
1.11
1.12
1.13
1.14
1.15
Airmass



Sun Feb 17 11:11:25 2008

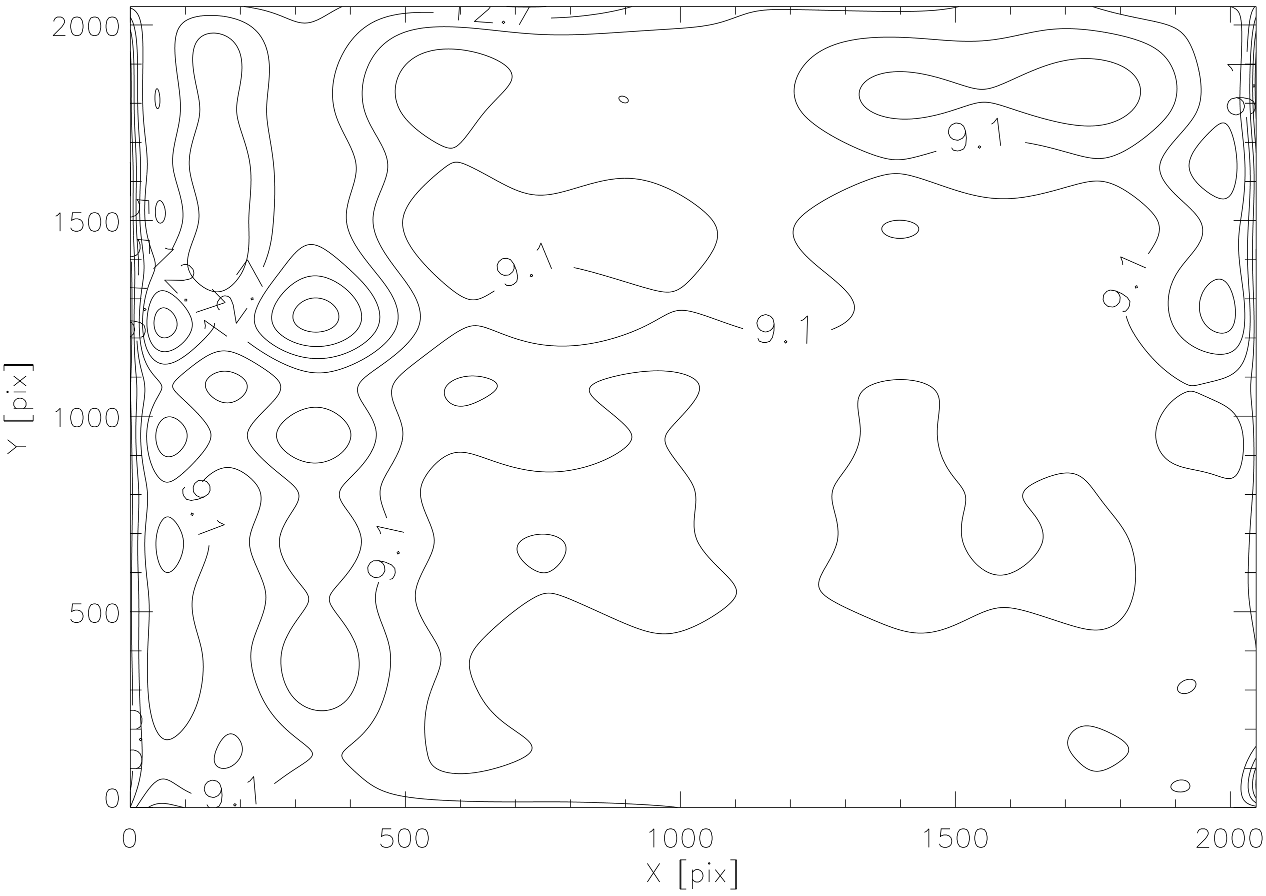


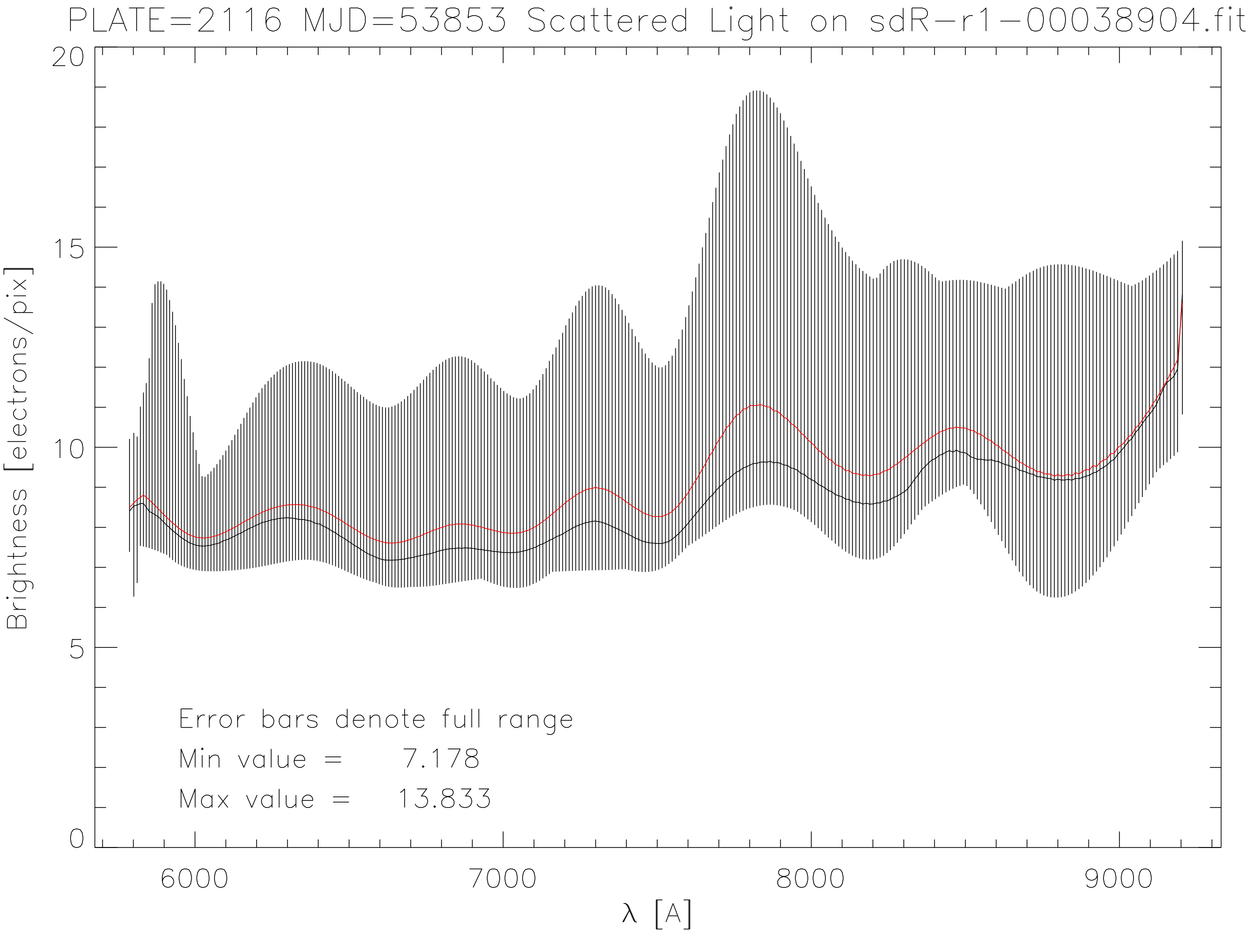
PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-r1-00038904.fi



Sun Feb 17 11:12:21 2008

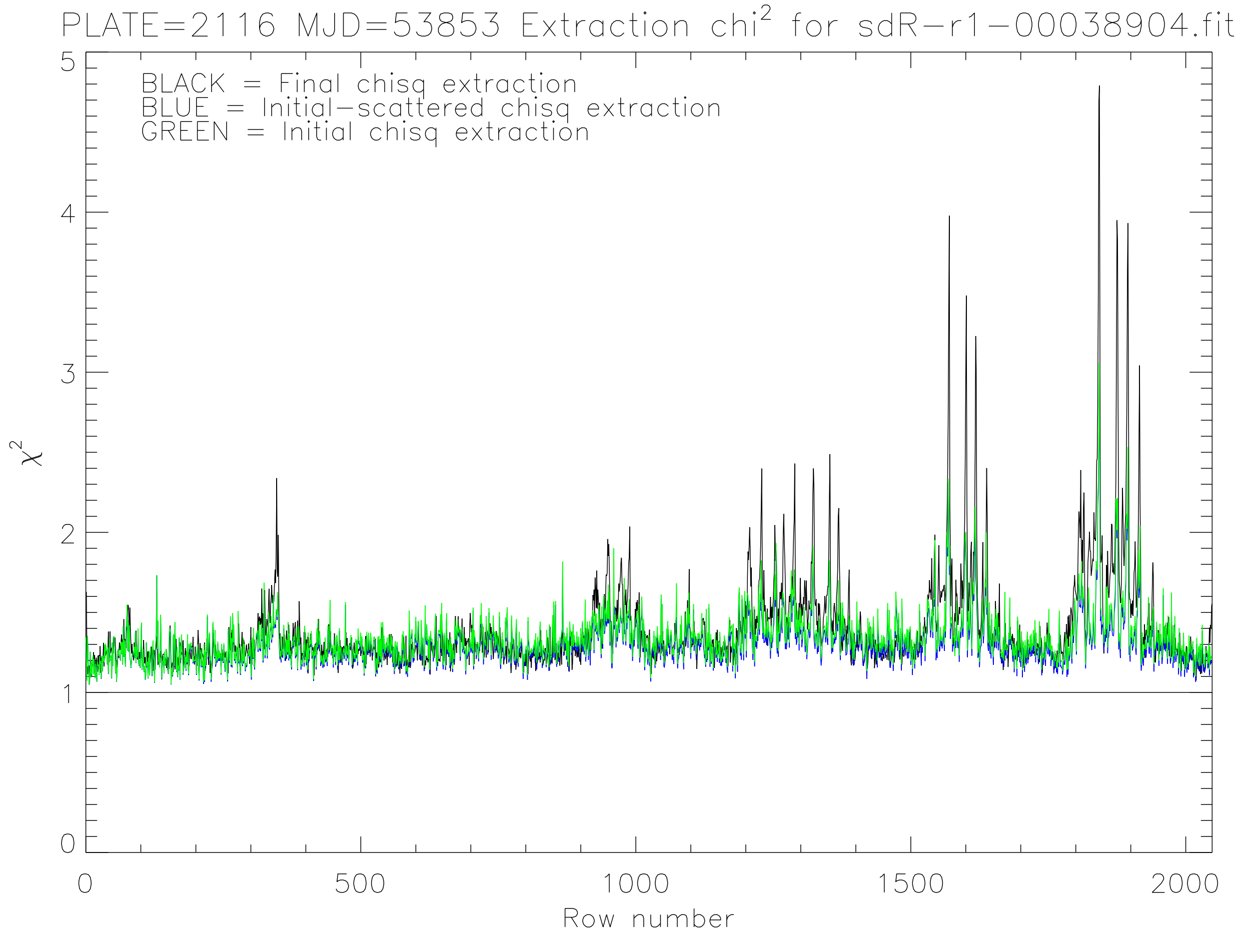
PLATE=2116 MJD=53853 Scattered Light on sdR-r1-00038904.fit

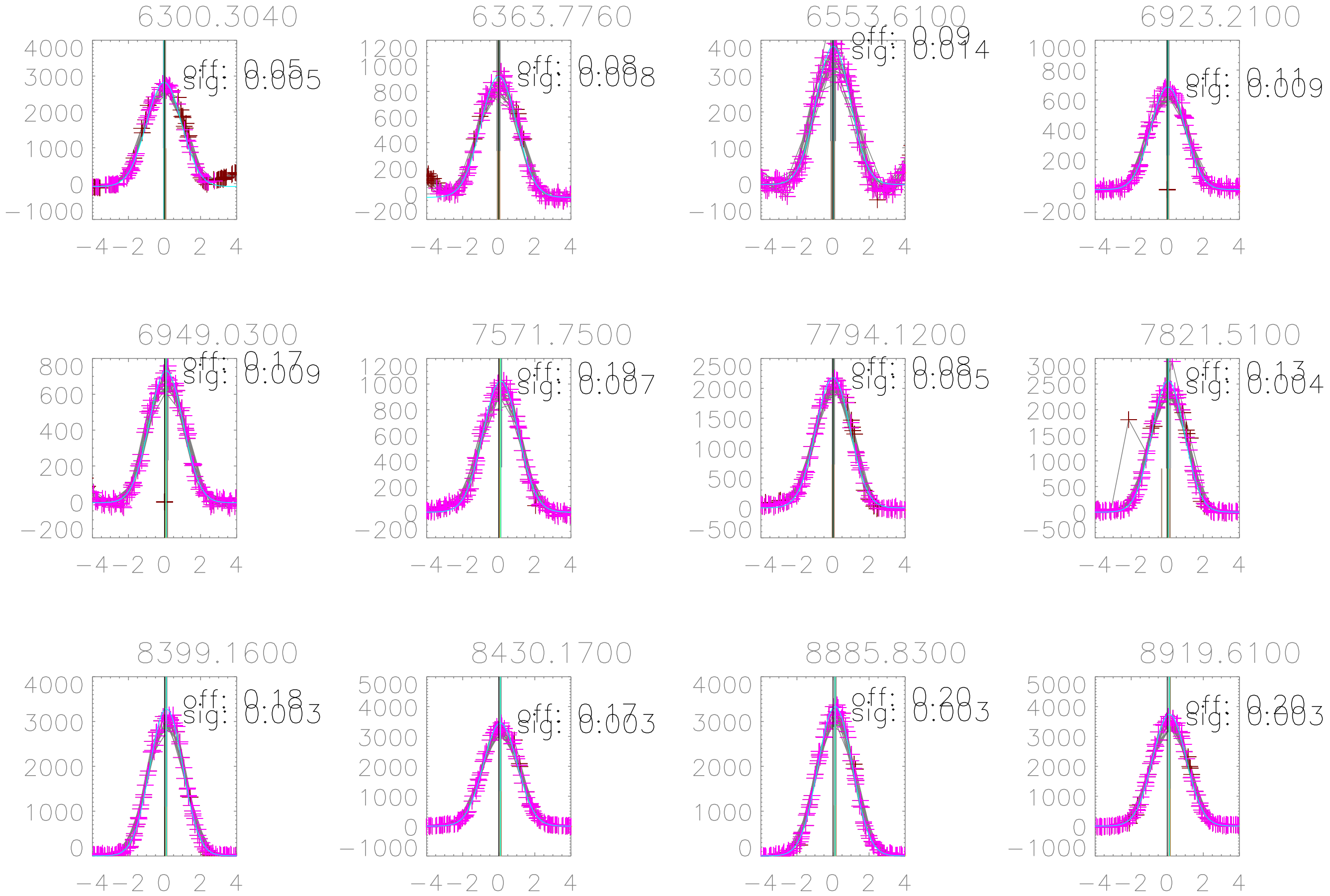


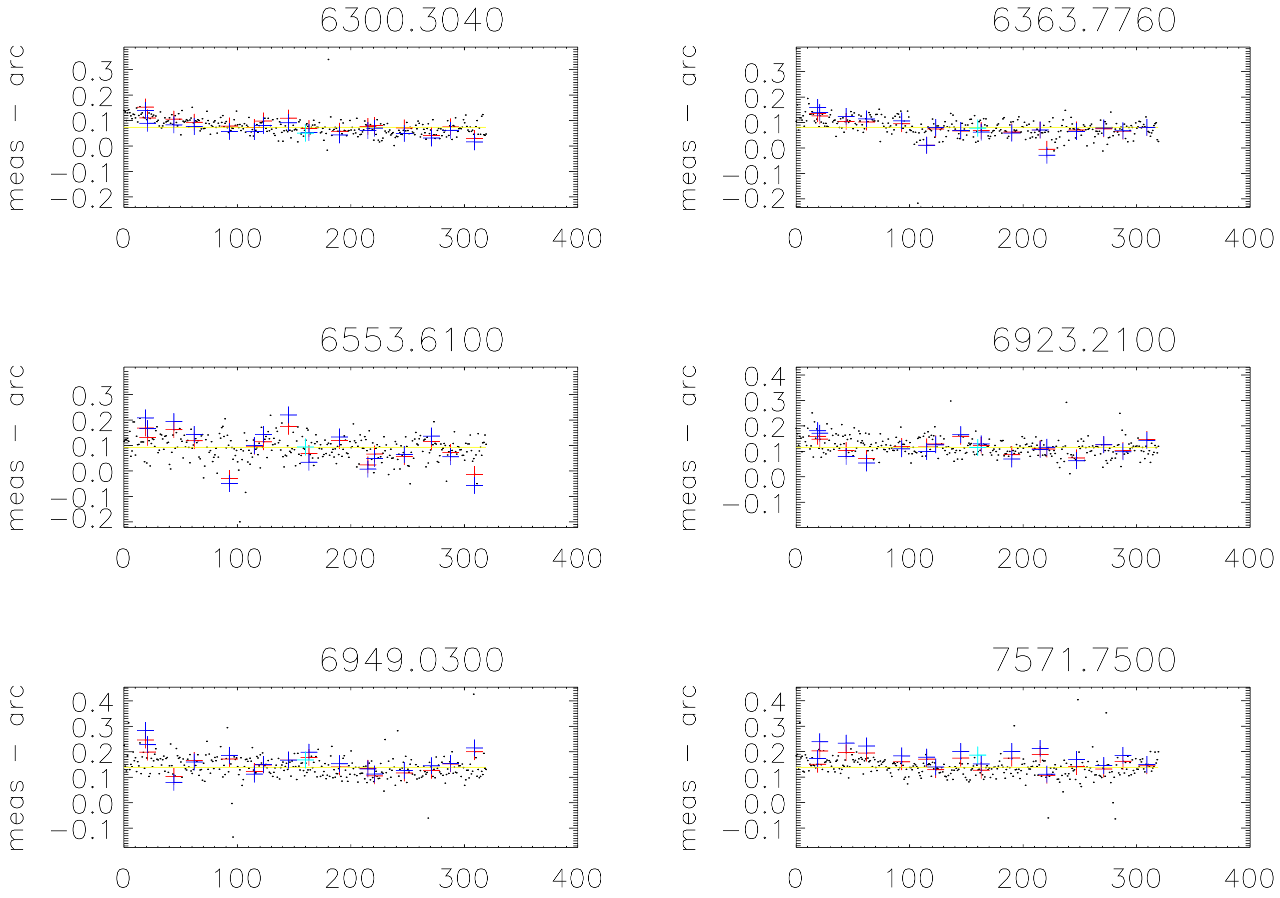


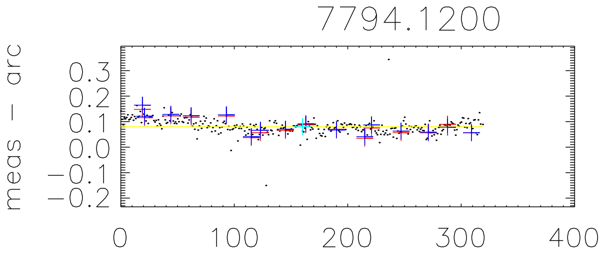
PLATE=2116 MJD=53853 Scattered Light on sdR-r1-00038904.fit

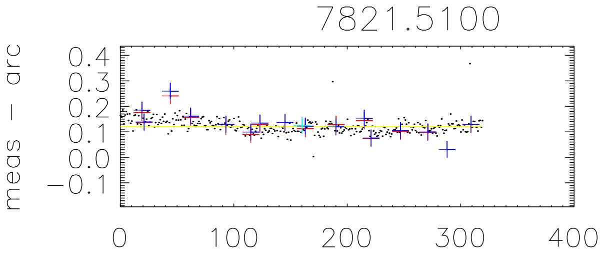
Sun Feb 17 11:15:37 2008

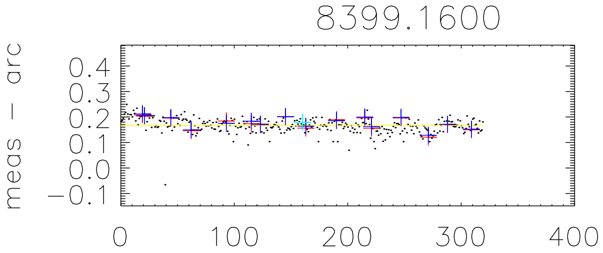

PLATE=2116 MJD=53853 Extraction chi^2 for sdR-r1-00038904.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

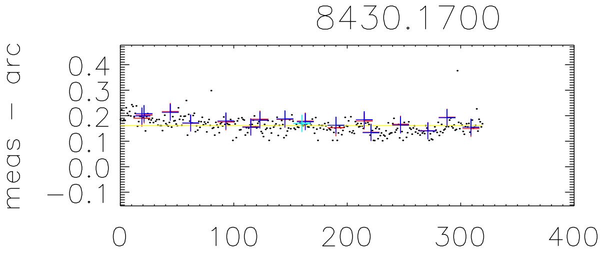

6300.3040
off: 0.05
sig: 0.005
6363.7760
off: 0.08
sig: 0.008
6553.6100
off: 0.09
sig: 0.014
6923.2100
off: 0.11
sig: 0.009
6949.0300
off: 0.17
sig: 0.009
7571.7500
off: 0.19
sig: 0.007
7794.1200
off: 0.08
sig: 0.005
7821.5100
off: 0.13
sig: 0.004
8399.1600
off: 0.18
sig: 0.003
8430.1700
off: 0.17
sig: 0.003
8885.8300
off: 0.20
sig: 0.003
8919.6100
off: 0.20
sig: 0.003
−4 −2 0 2 4

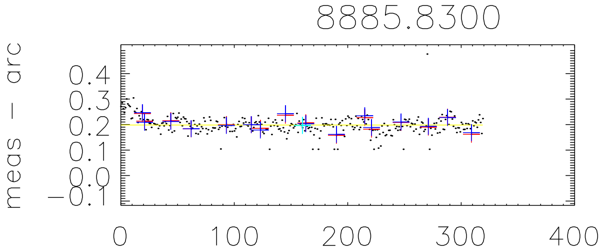

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

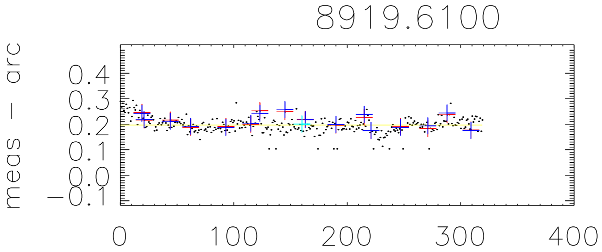

7794.1200
meas - arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

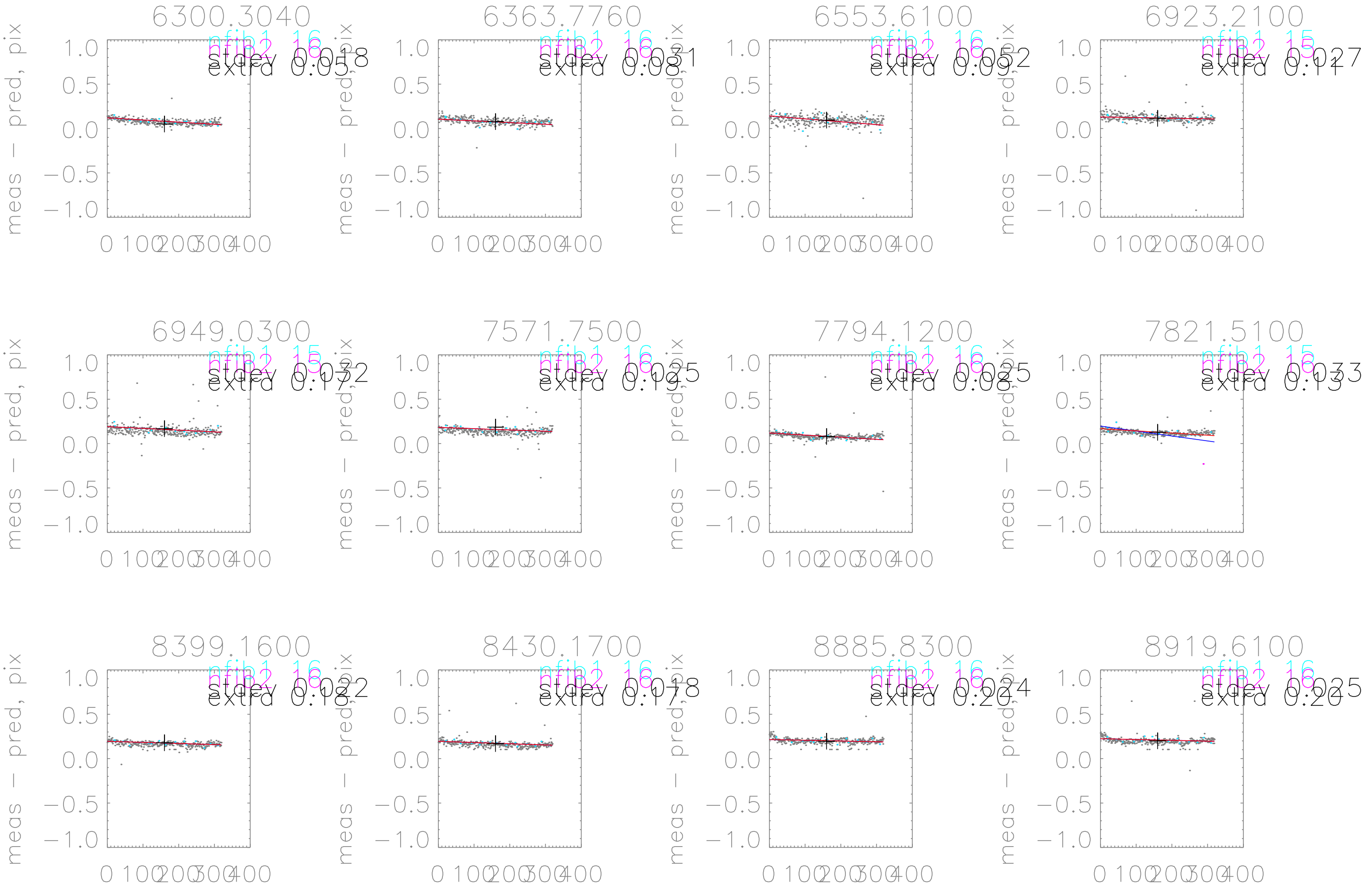

7821.5100
meas - arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

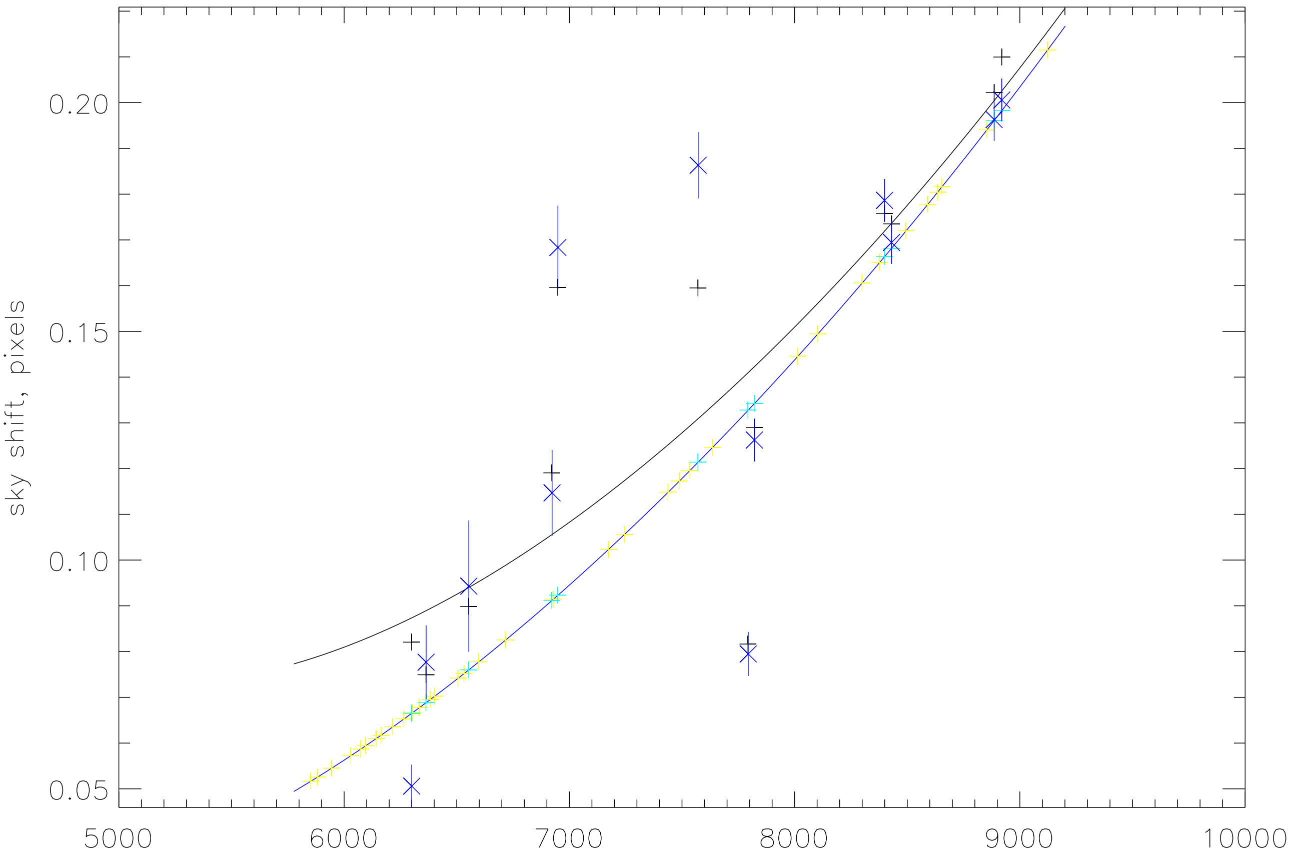

8399.1600
meas - arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

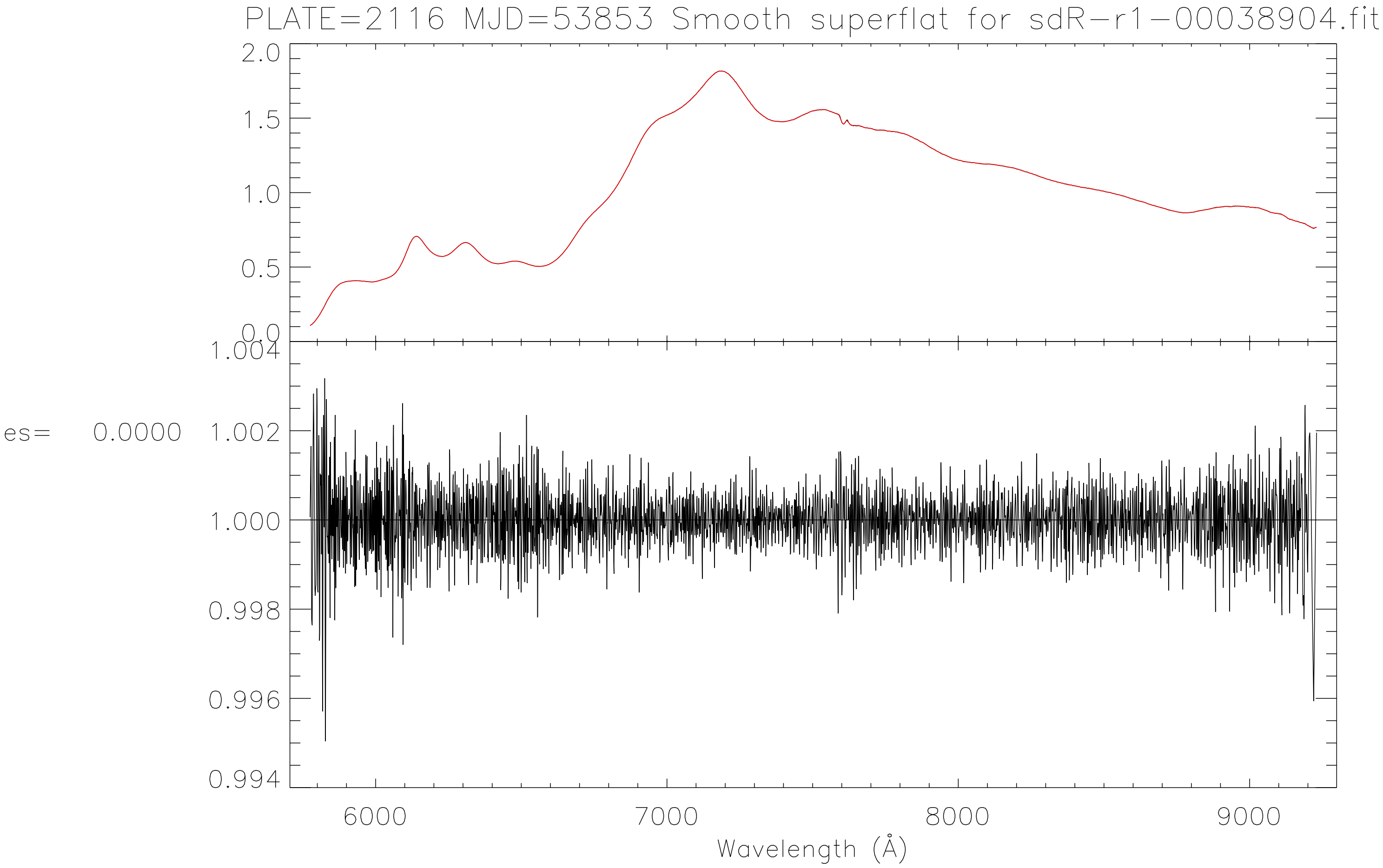

8430.1700
meas - arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

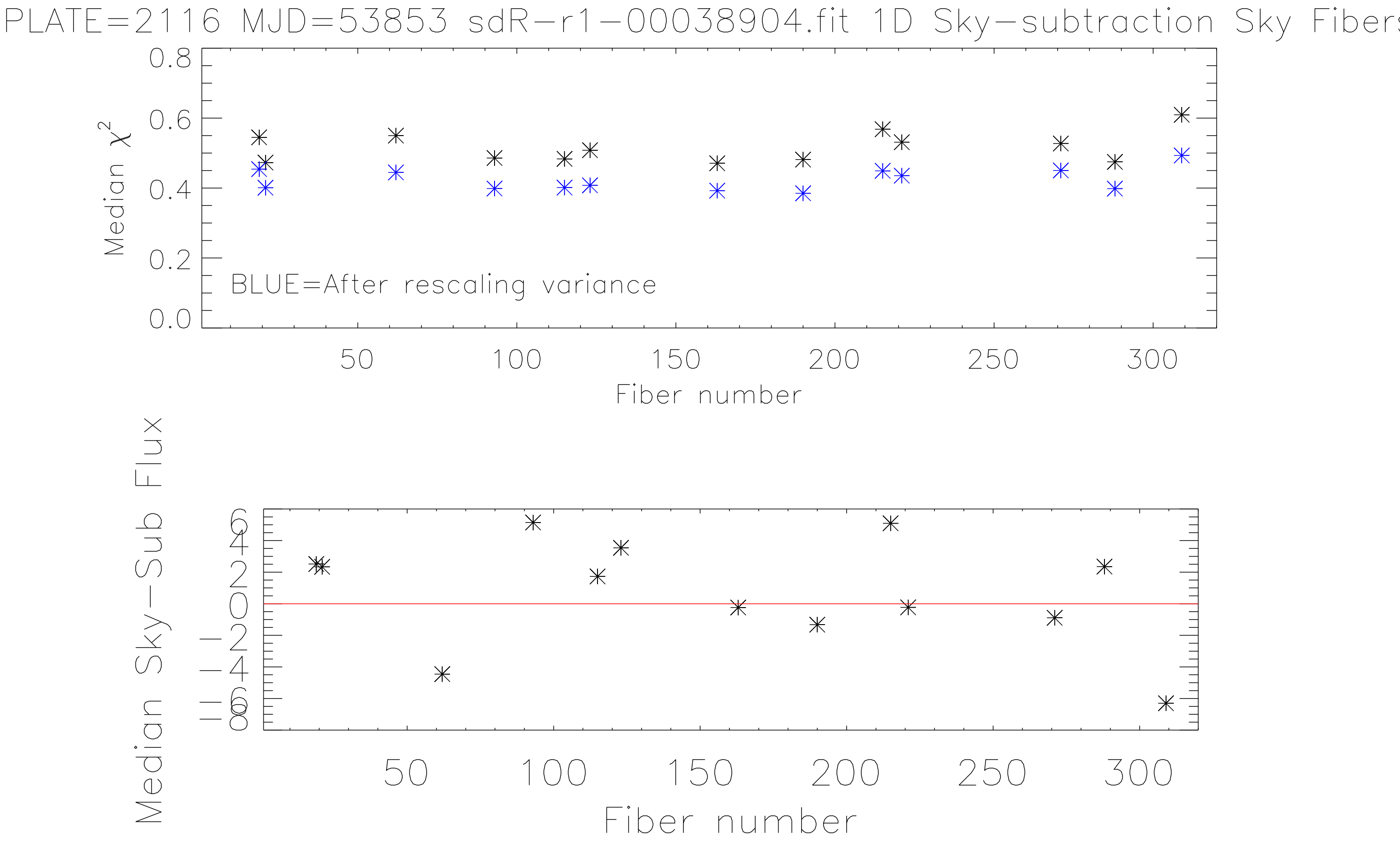

8885.8300
meas - arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

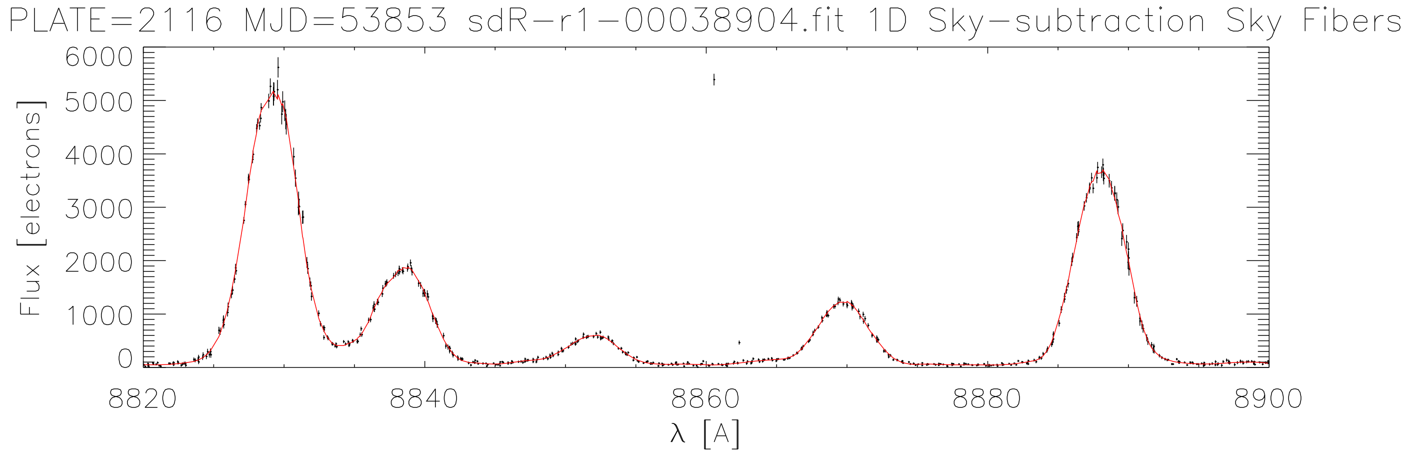

8919.6100
meas - arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

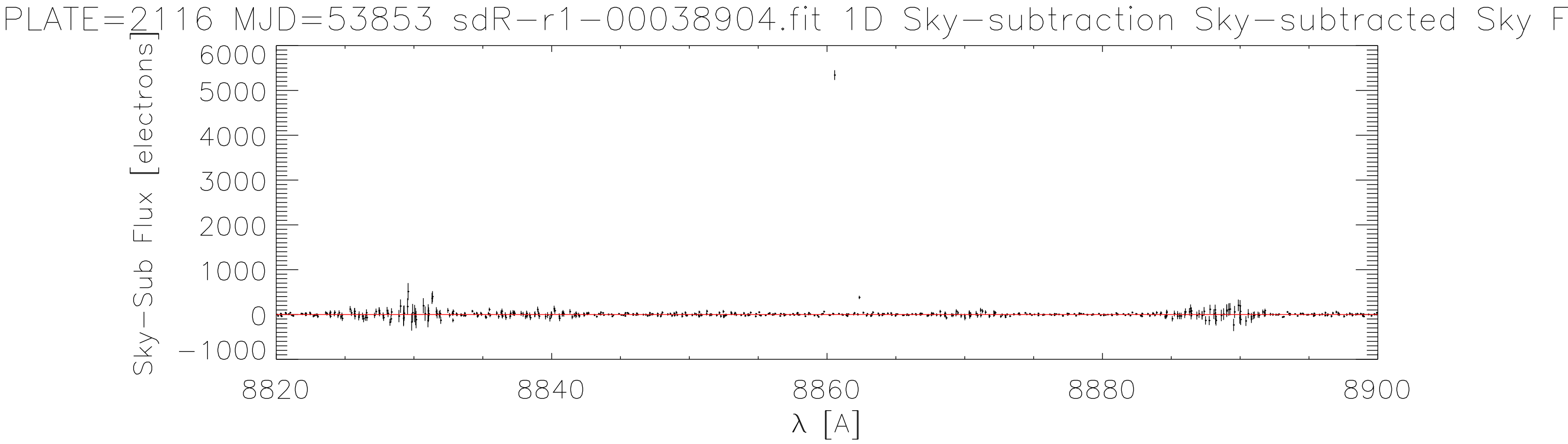

6300.3040
nfib1 16
nfib2 16
stdev 0.018
extrd 0.05
6363.7760
nfib1 16
nfib2 16
stdev 0.031
extrd 0.08
6553.6100
nfib1 16
nfib2 16
stdev 0.052
extrd 0.09
6923.2100
nfib1 15
nfib2 15
stdev 0.027
extrd 0.11
6949.0300
nfib1 15
nfib2 15
stdev 0.032
extrd 0.17
7571.7500
nfib1 16
nfib2 16
stdev 0.025
extrd 0.19
7794.1200
nfib1 16
nfib2 16
stdev 0.025
extrd 0.08
7821.5100
nfib1 15
nfib2 16
stdev 0.033
extrd 0.13
8399.1600
nfib1 16
nfib2 16
stdev 0.022
extrd 0.18
8430.1700
nfib1 16
nfib2 16
stdev 0.018
extrd 0.17
8885.8300
nfib1 16
nfib2 16
stdev 0.024
extrd 0.20
8919.6100
nfib1 16
nfib2 16
stdev 0.025
extrd 0.20
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

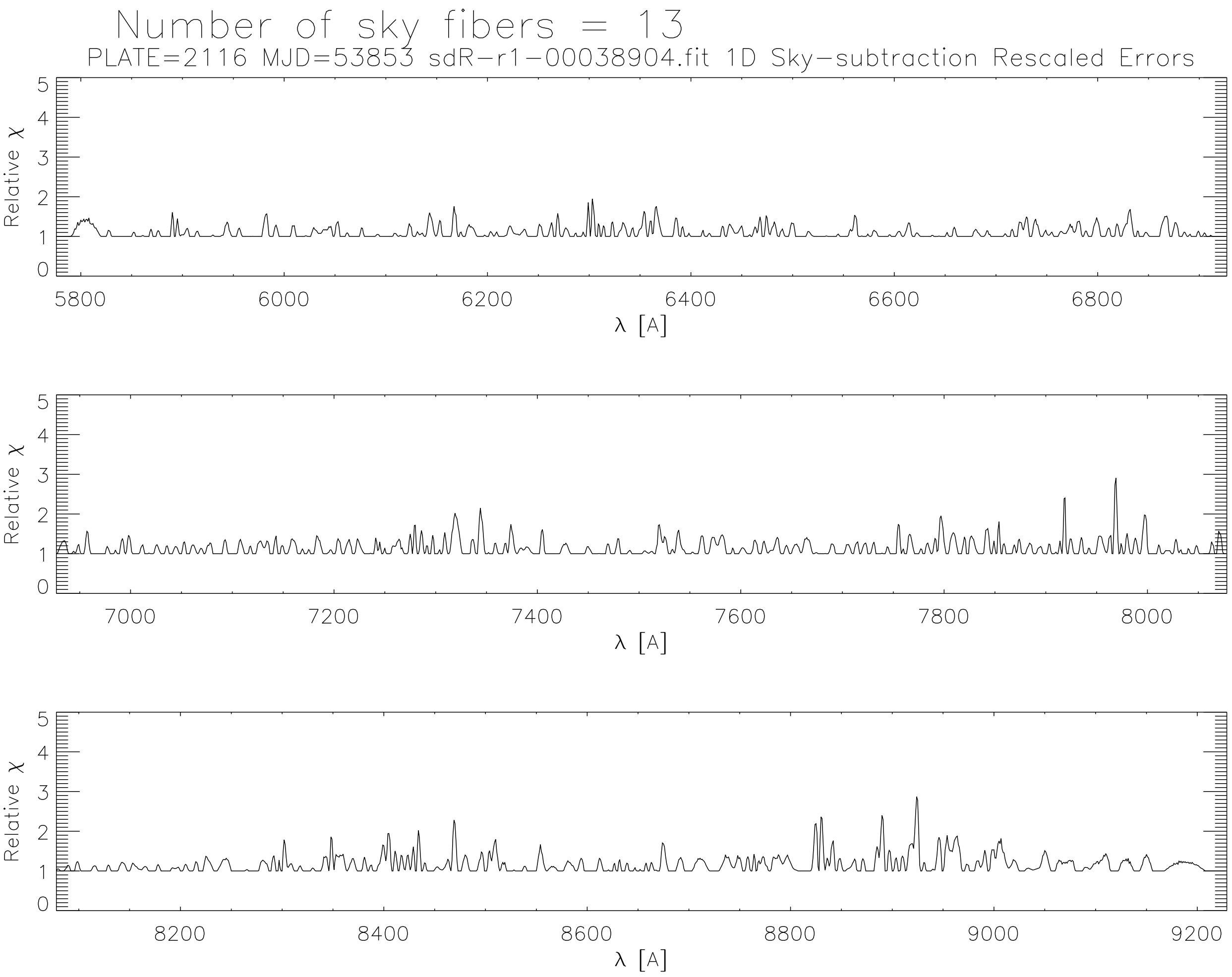

sky shift, pixels
0.05
0.10
0.15
0.20
5000
6000
7000
8000
9000
10000

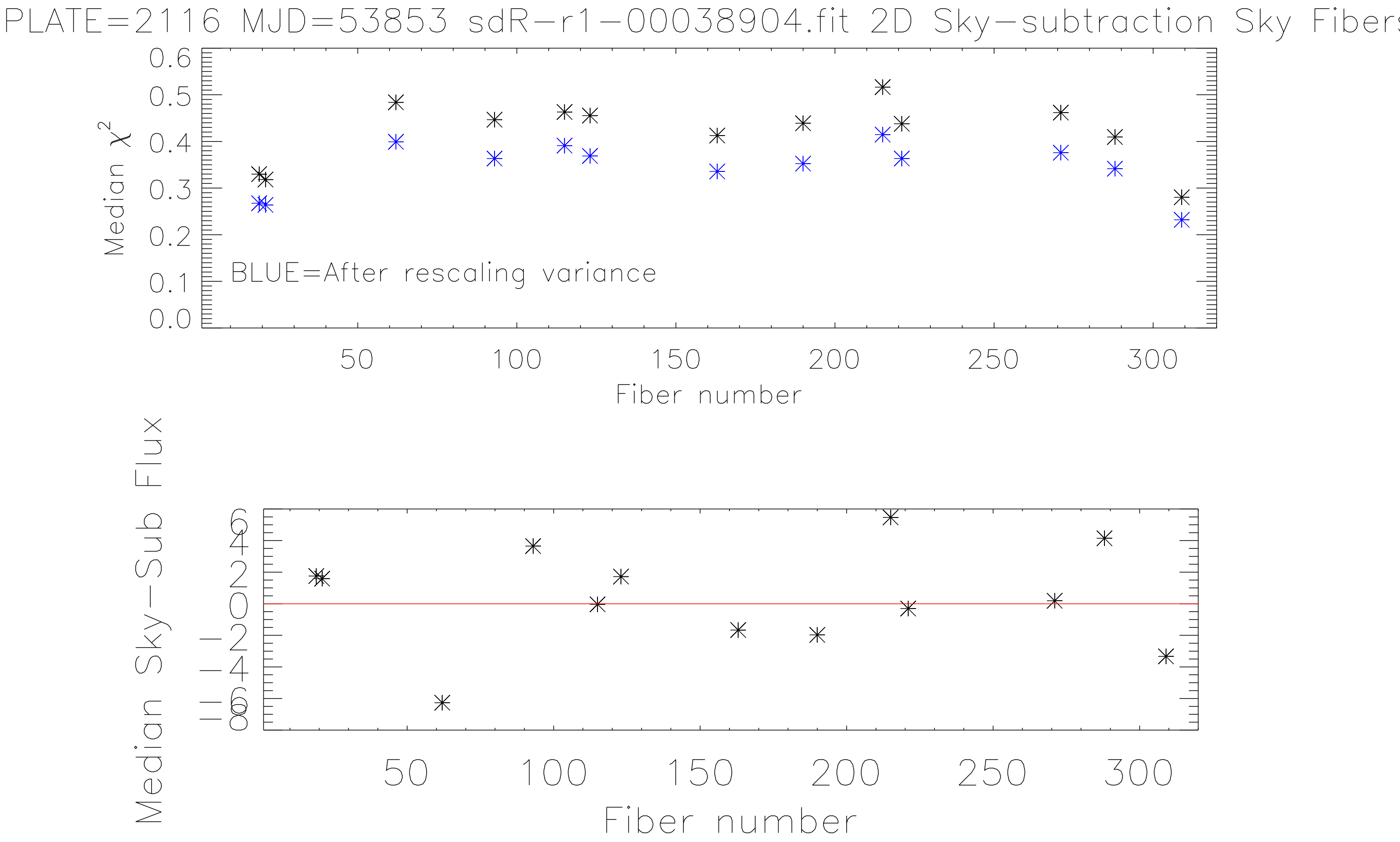

PLATE=2116 MJD=53853 Smooth superflat for sdR-r1-00038904.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
es=
0.0000
6000
7000
8000
9000
Wavelength (Å)


PLATE=2116 MJD=53853 sdR-r1-00038904.fit 1D Sky-subtraction Sky Fibers
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
6
4
2
0
−2
−4
−6
−8
50
100
150
200
250
300
Fiber number

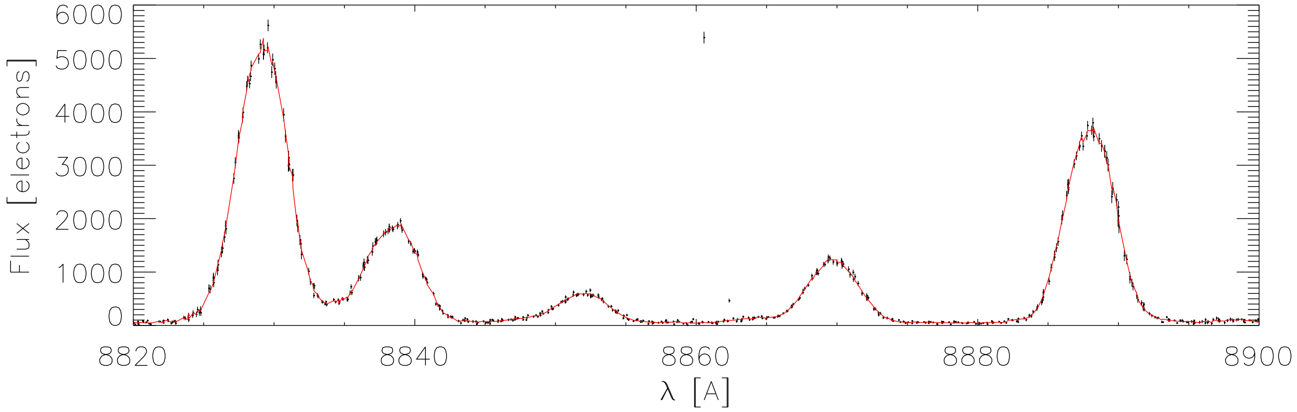

PLATE=2116 MJD=53853 sdR-r1-00038904.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
6000
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]


PLATE=2116 MJD=53853 sdR-r1-00038904.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
6000
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

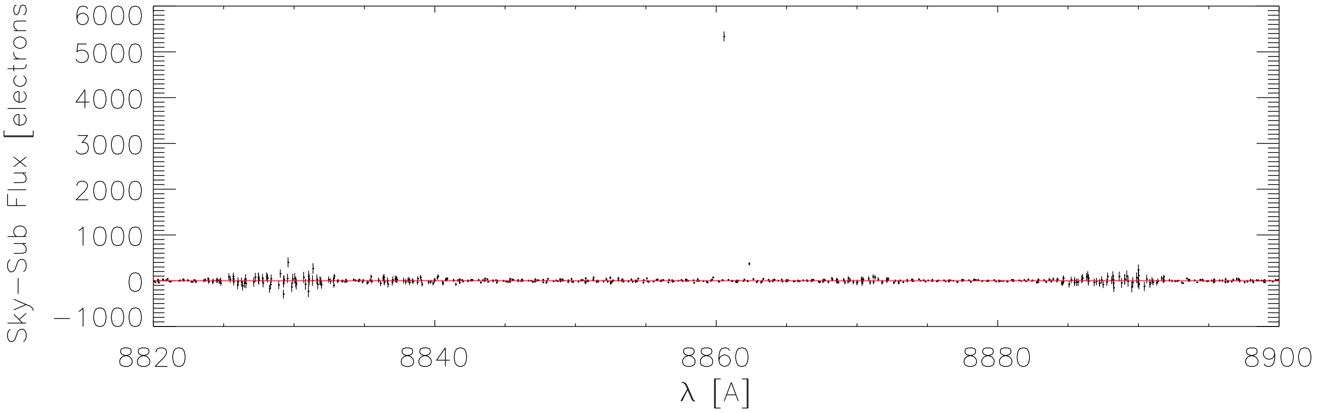

Number of sky fibers = 13
PLATE=2116 MJD=53853 sdR-r1-00038904.fit 1D Sky-subtraction Rescaled Errors
Relative χ
0
1
2
3
4
5
5800
6000
6200
6400
6600
6800
7000
7200
7400
7600
7800
8000
8200
8400
8600
8800
9000
9200
λ [A]


PLATE=2116 MJD=53853 sdR-r1-00038904.fit 2D Sky-subtraction Sky Fiber
Median χ²
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
-8
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

PLATE=2116 MJD=53853 sdR-r1-00038904.fit 2D Sky-subtraction Sky Fibers

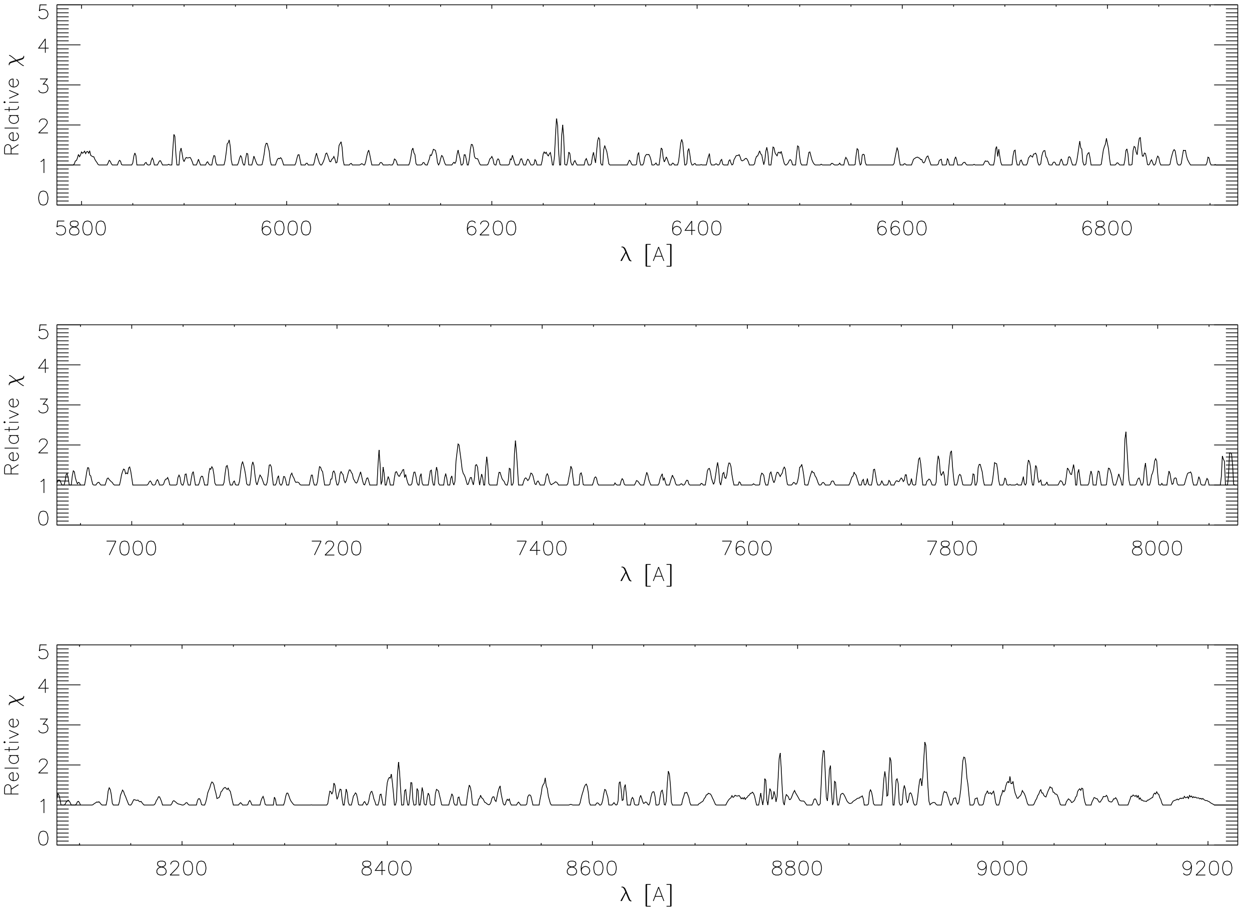


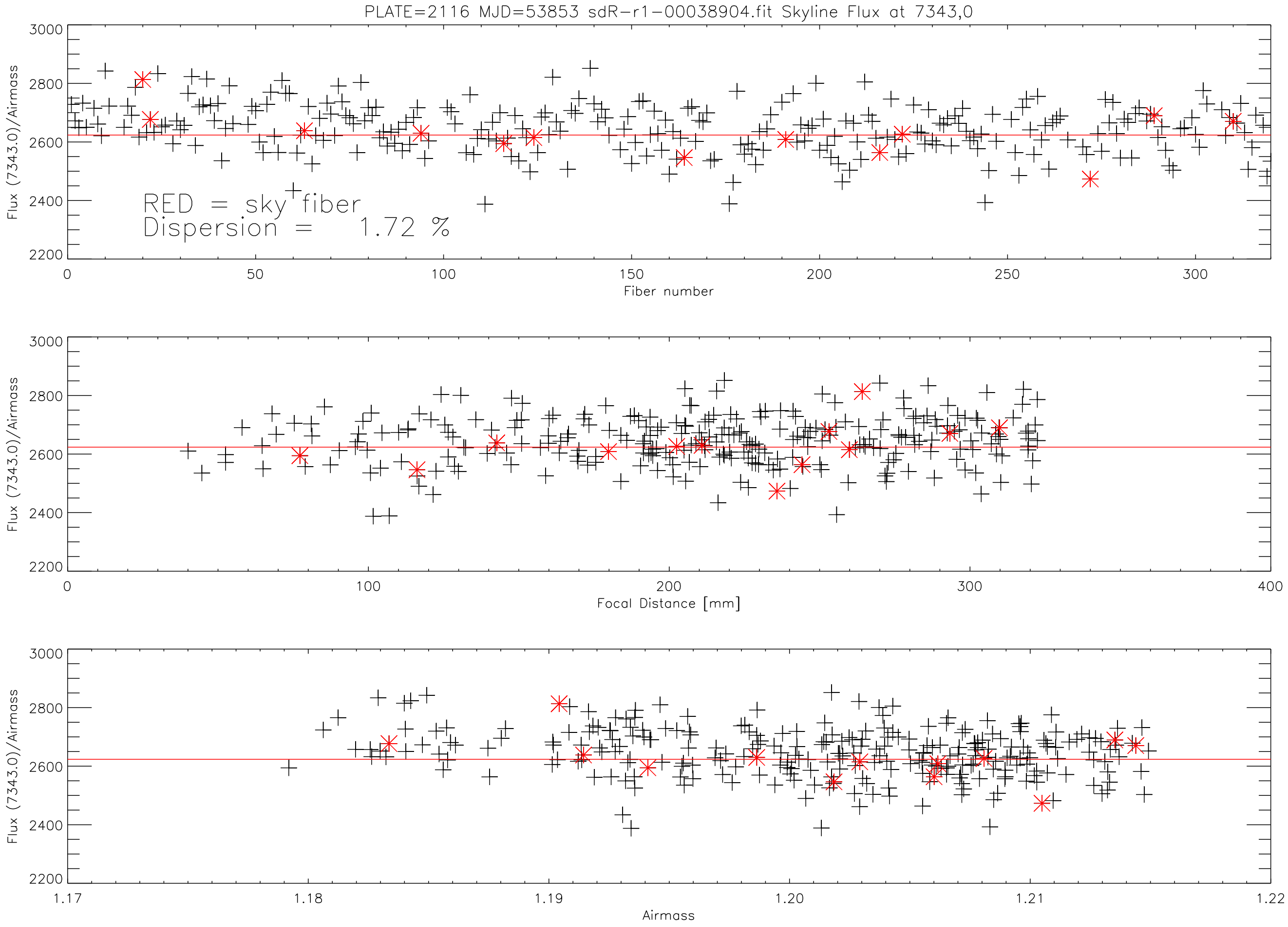
PLATE=2116 MJD=53853 sdR-r1-00038904.fit 2D Sky-subtraction Sky-subtracted Sky F

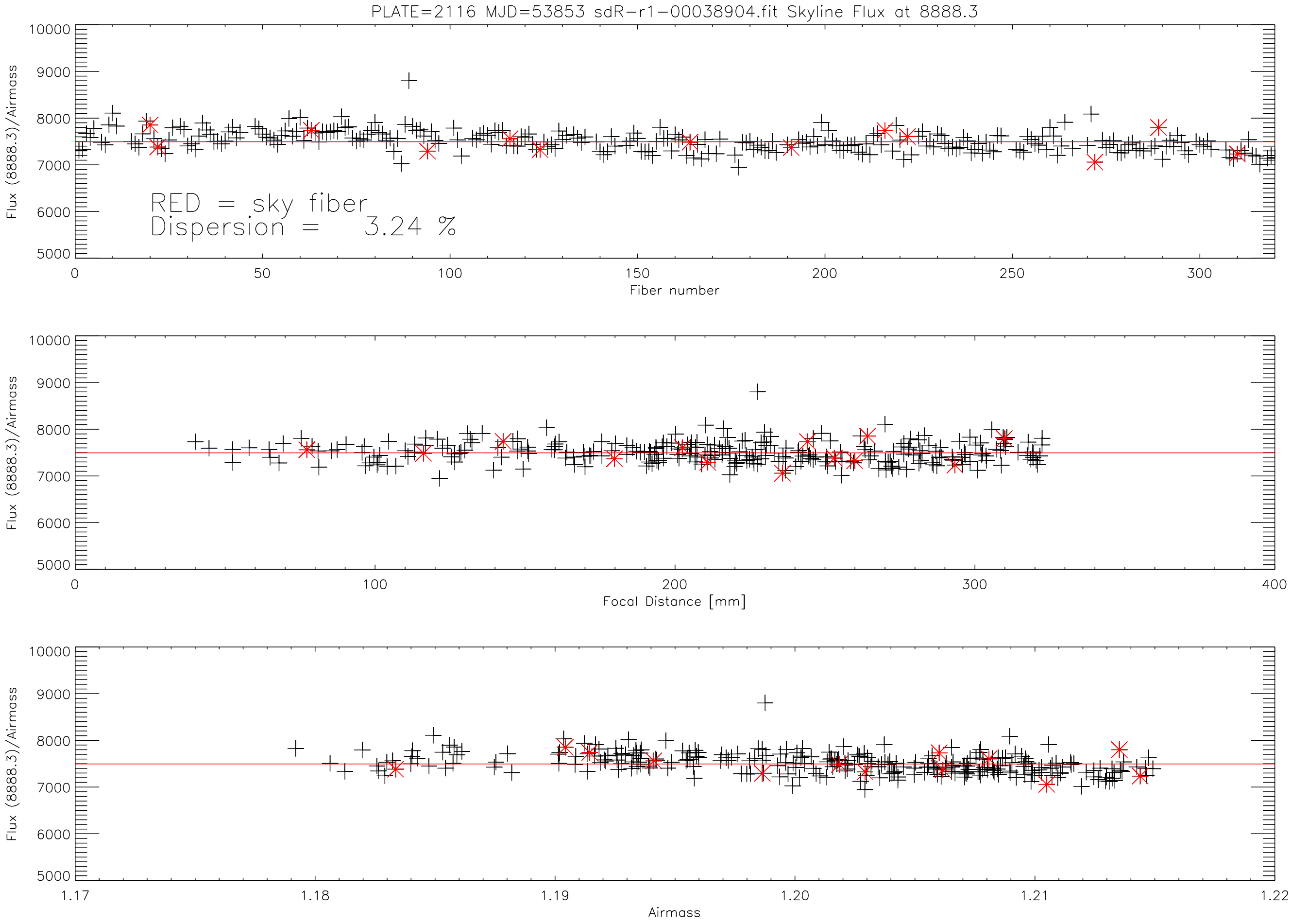


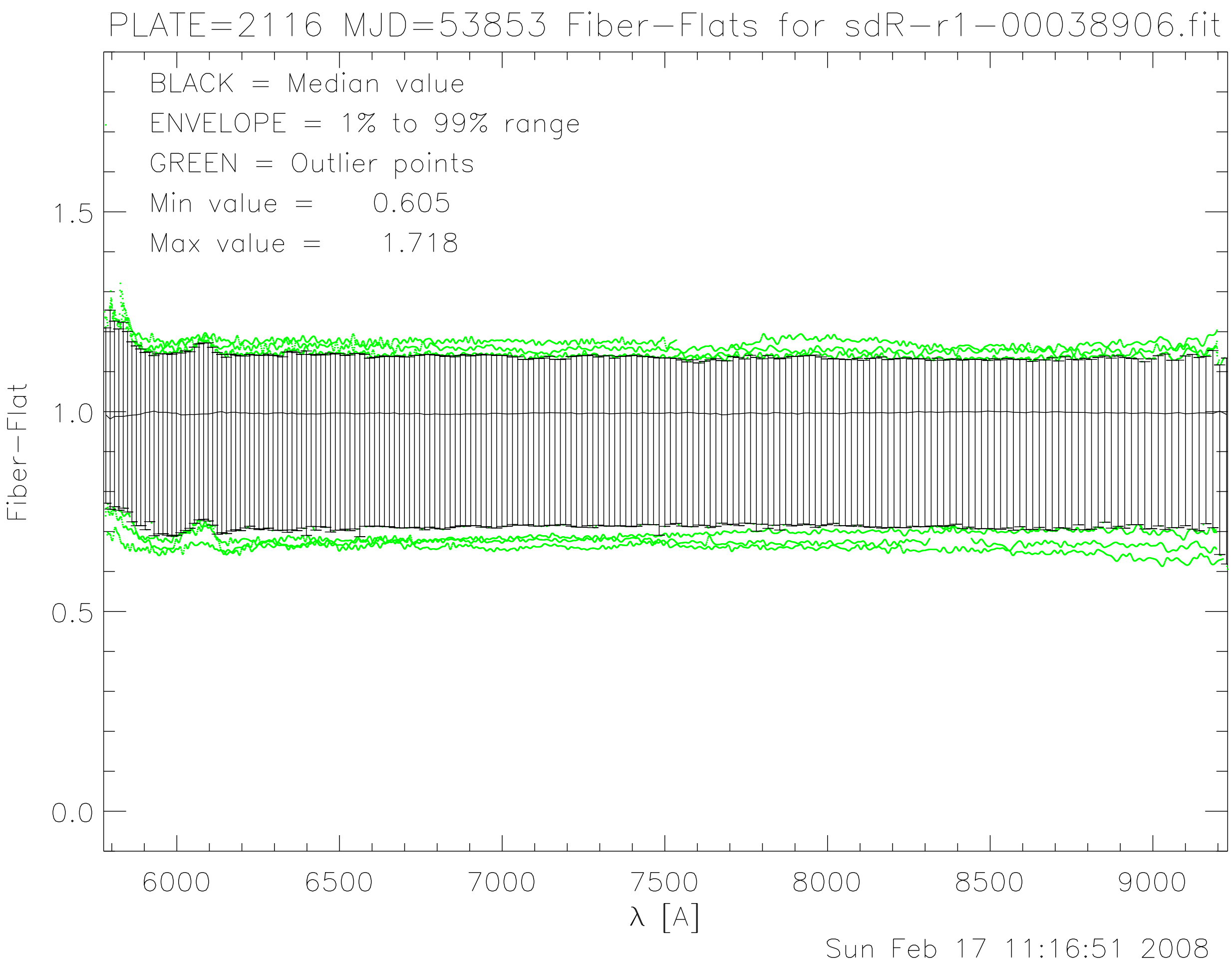
Number of sky fibers = 13

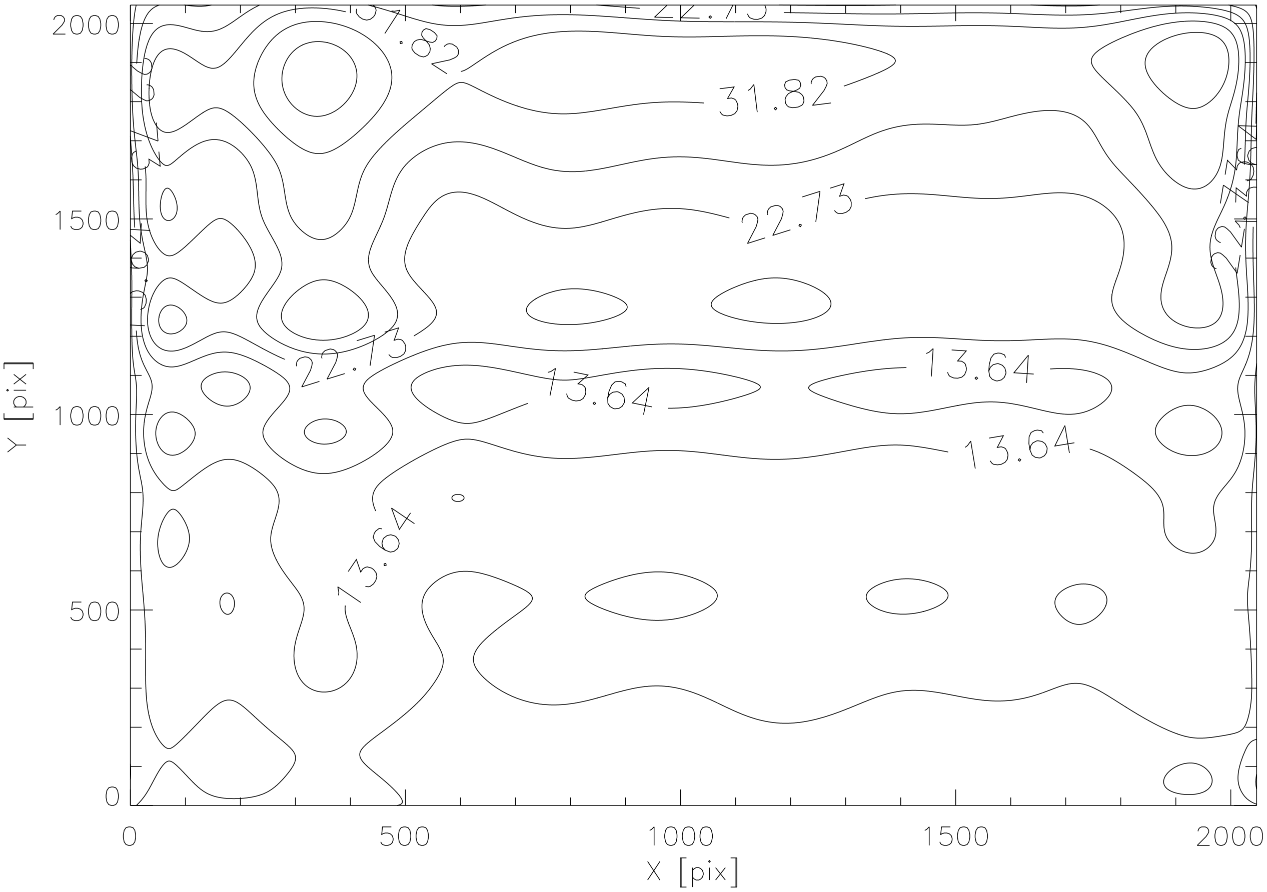
PLATE=2116 MJD=53853 sdR-r1-00038904.fit 2D Sky-subtraction Rescaled Errors



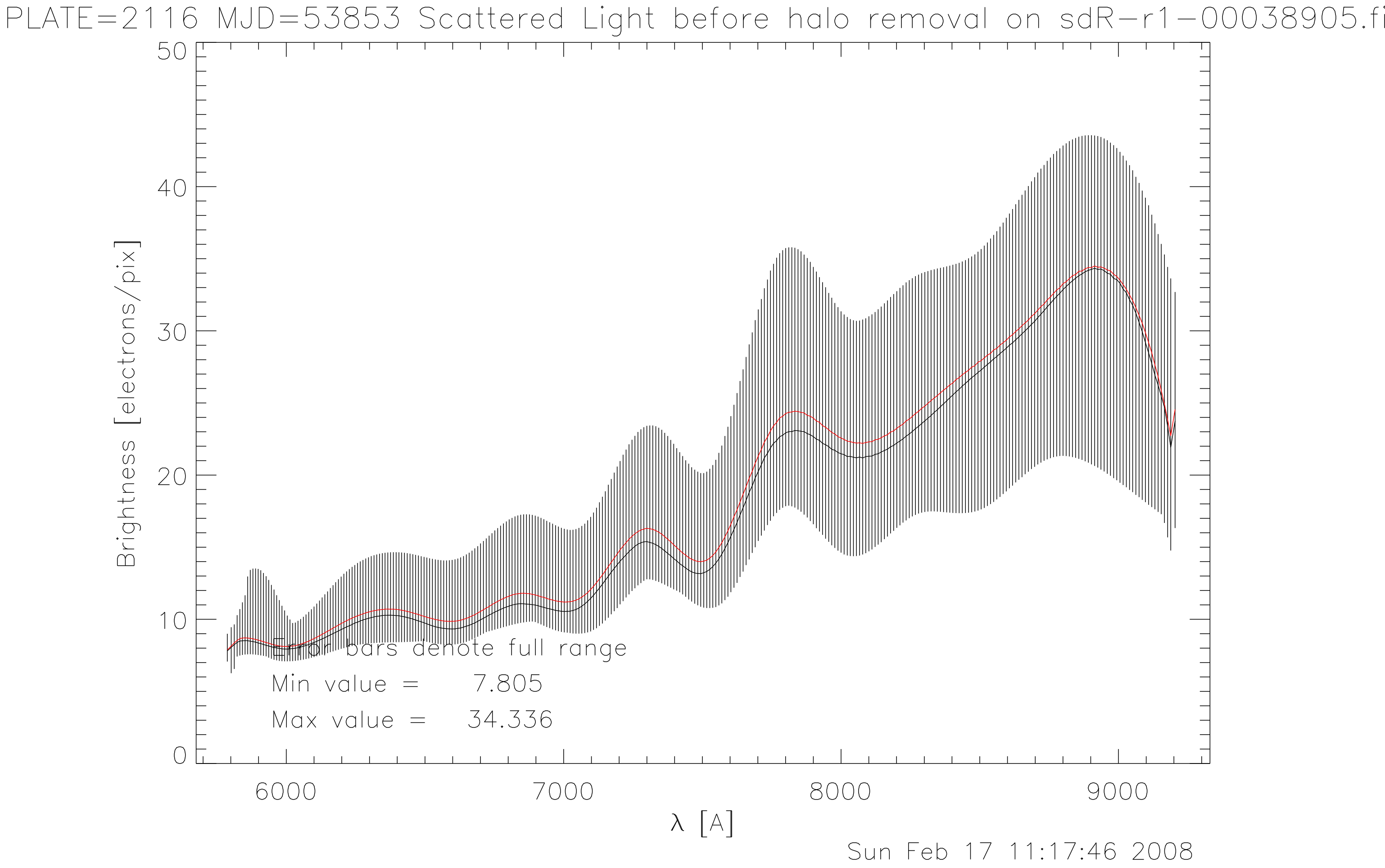

PLATE=2116 MJD=53853 sdR-r1-00038904.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
3000
2800
2600
2400
2200
RED = sky fiber
Dispersion = 1.72 %
0
50
100
150
200
250
300
Fiber number
Flux (7343.0)/Airmass
3000
2800
2600
2400
2200
0
100
200
300
400
Focal Distance [mm]
Flux (7343.0)/Airmass
3000
2800
2600
2400
2200
1.17
1.18
1.19
1.20
1.21
1.22
Airmass

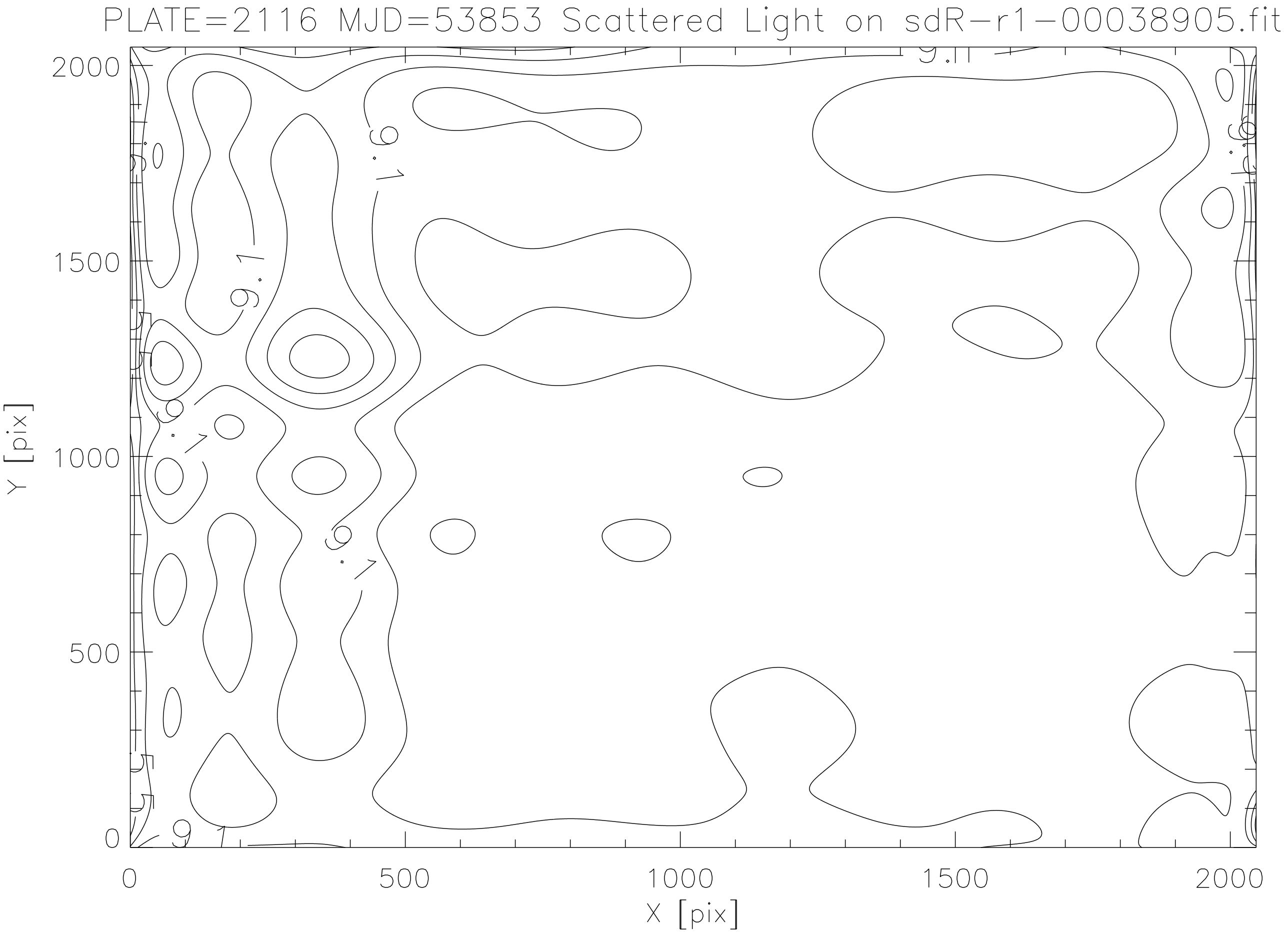

PLATE=2116 MJD=53853 sdR-r1-00038904.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
10000
9000
8000
7000
6000
5000
RED = sky fiber
Dispersion = 3.24 %
0
50
100
150
200
250
300
Fiber number
Flux (8888.3)/Airmass
10000
9000
8000
7000
6000
5000
0
100
200
300
400
Focal Distance [mm]
Flux (8888.3)/Airmass
10000
9000
8000
7000
6000
5000
1.17
1.18
1.19
1.20
1.21
1.22
Airmass

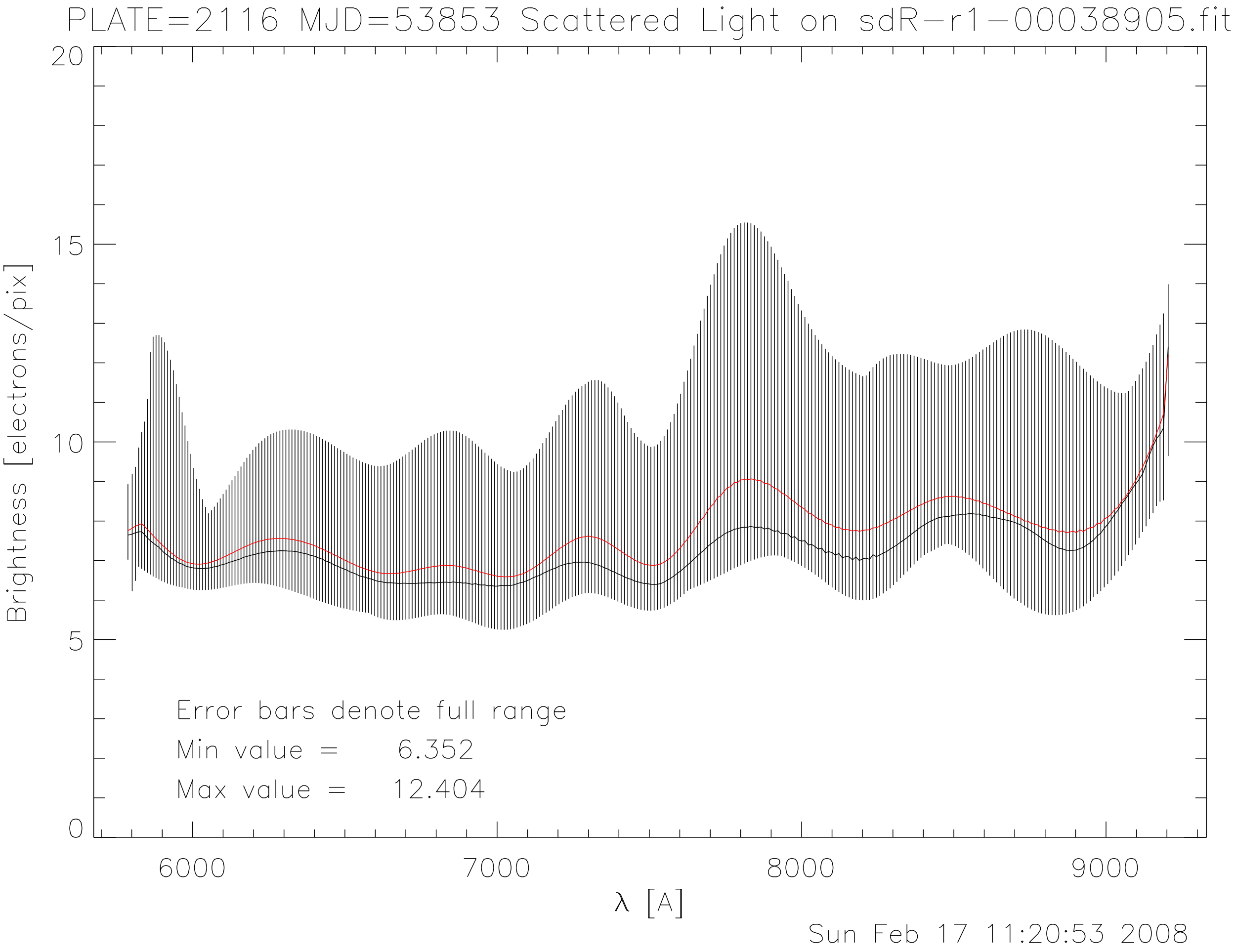

PLATE=2116 MJD=53853 Fiber−Flats for sdR−r1−00038906.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.605
Max value = 1.718
Fiber−Flat
0.0
0.5
1.0
1.5
6000
6500
7000
7500
8000
8500
9000
λ [A]
Sun Feb 17 11:16:51 2008

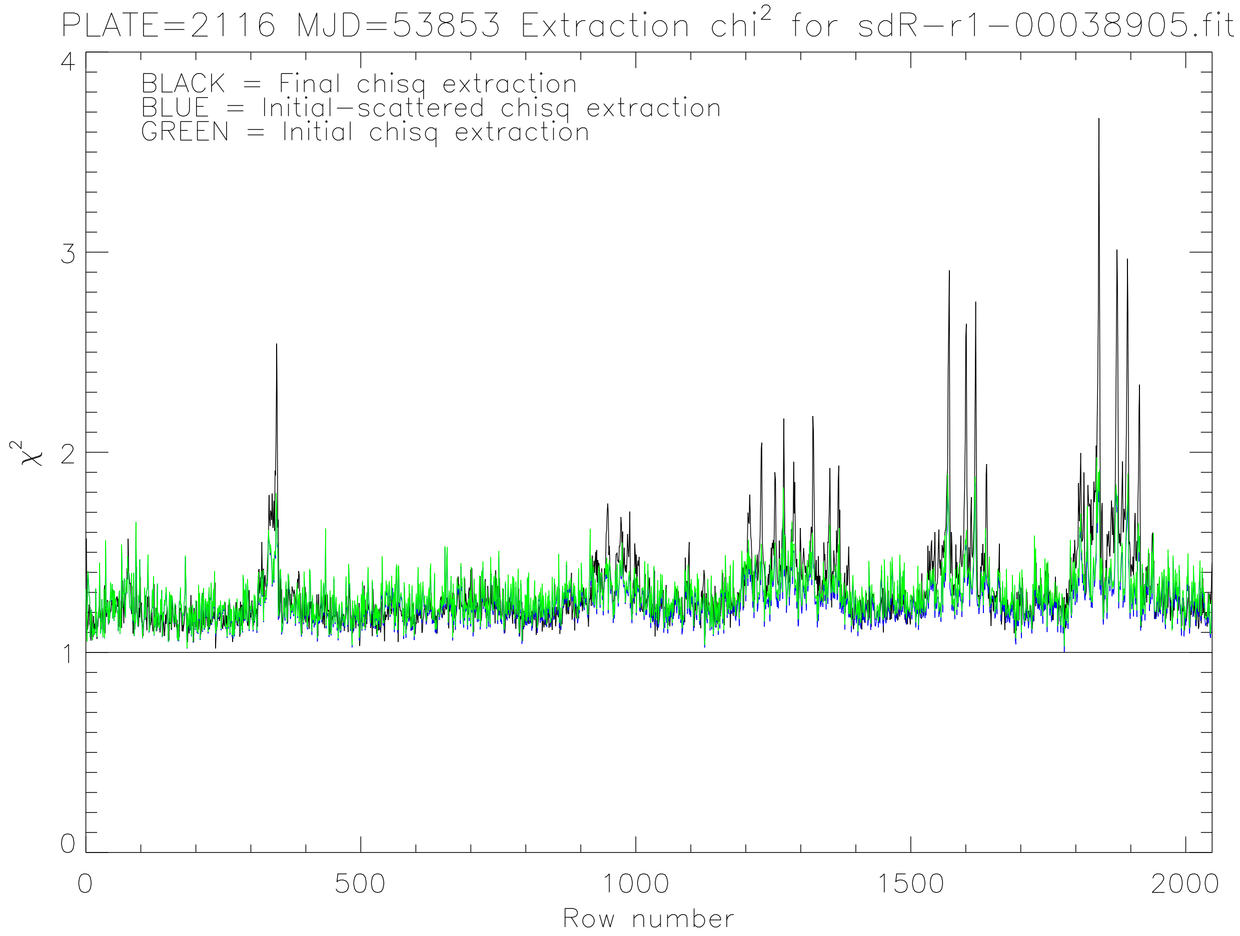


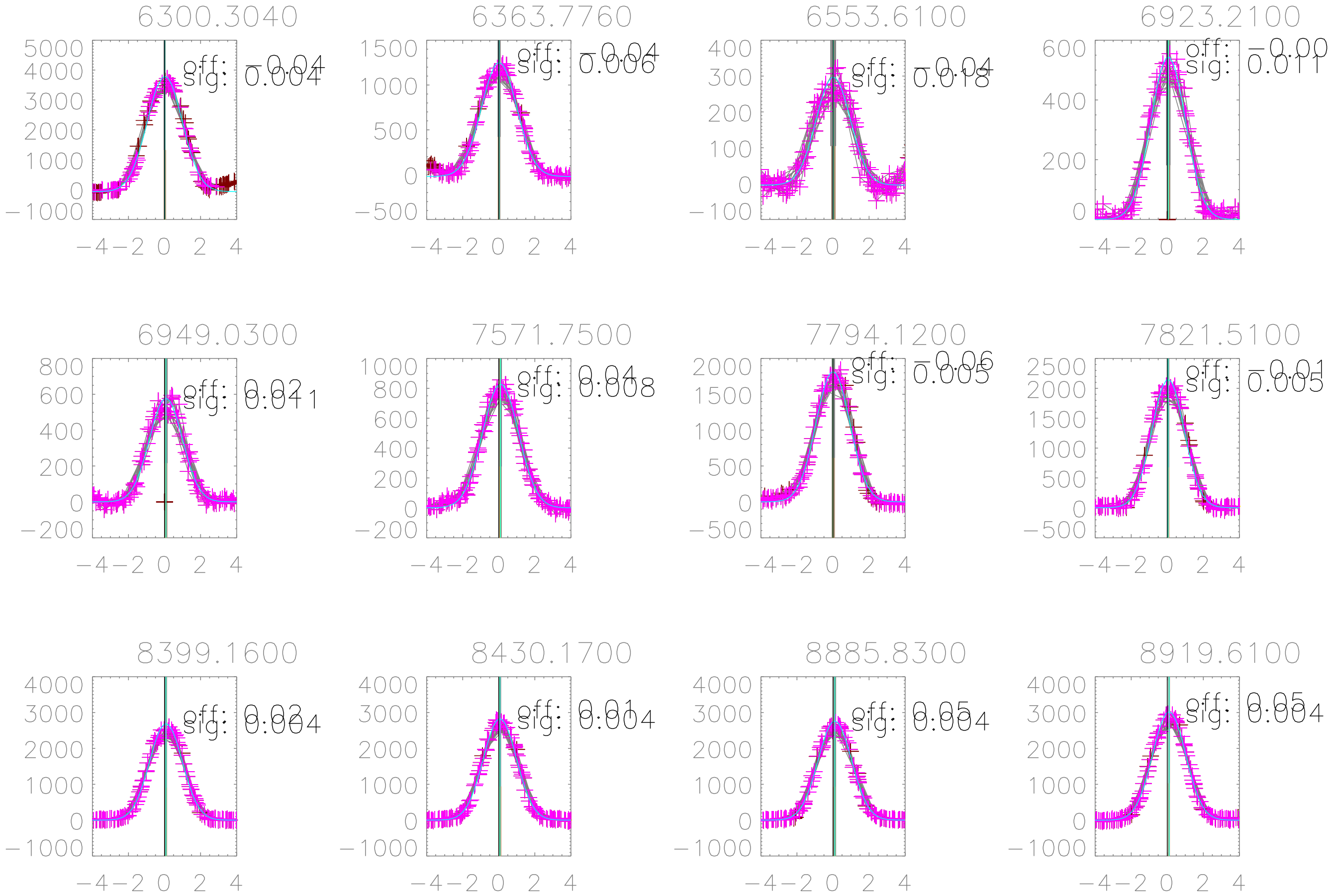
PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-r1-00038905.fi

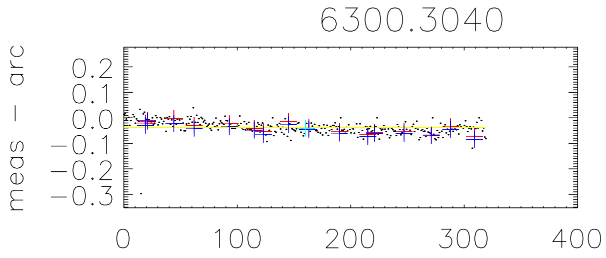

PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-r1-00038905.fi
Brightness [electrons/pix]
0
10
20
30
40
50
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 7.805
Max value = 34.336
Sun Feb 17 11:17:46 2008

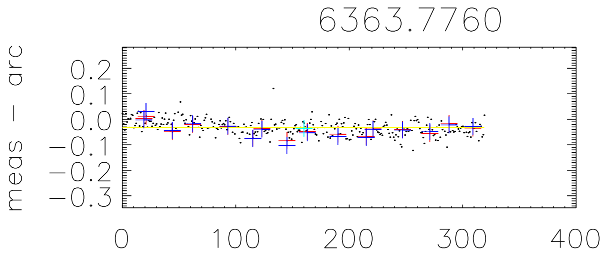

PLATE=2116 MJD=53853 Scattered Light on sdR-r1-00038905.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0
500
1000
1500
2000
9.1
9.1
9.1
9.1
9.1
9.1
9.1
9.1
9.1

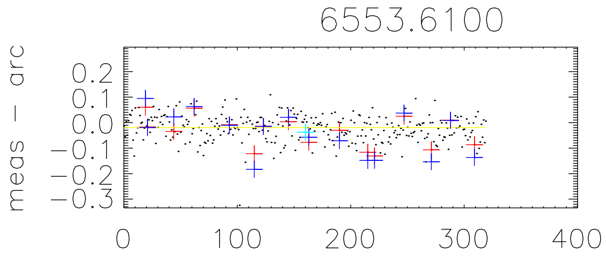

PLATE=2116 MJD=53853 Scattered Light on sdR-r1-00038905.fit
Brightness [electrons/pix]
0
5
10
15
20
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value =   6.352
Max value =   12.404
Sun Feb 17 11:20:53 2008

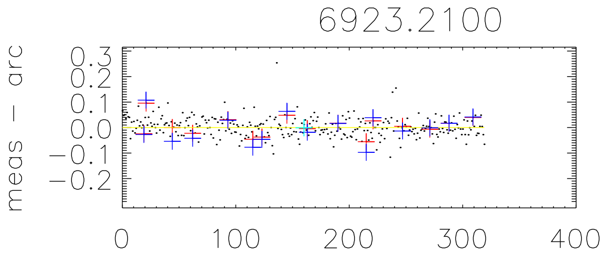

PLATE=2116 MJD=53853 Extraction chi^2 for sdR-r1-00038905.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

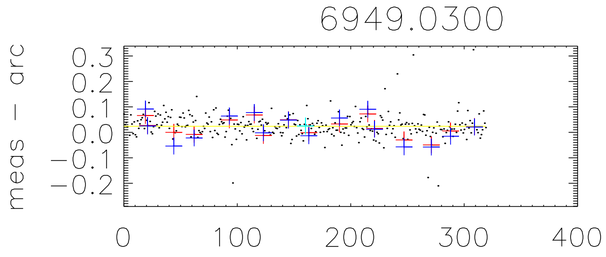

6300.3040
off: −0.04
sig: 0.004
6363.7760
off: −0.04
sig: 0.006
6553.6100
off: −0.04
sig: 0.018
6923.2100
off: −0.00
sig: 0.011
6949.0300
off: 0.02
sig: 0.011
7571.7500
off: 0.04
sig: 0.008
7794.1200
off: −0.06
sig: 0.005
7821.5100
off: −0.01
sig: 0.005
8399.1600
off: 0.02
sig: 0.004
8430.1700
off: 0.01
sig: 0.004
8885.8300
off: 0.05
sig: 0.004
8919.6100
off: 0.05
sig: 0.004
−4 −2 0 2 4

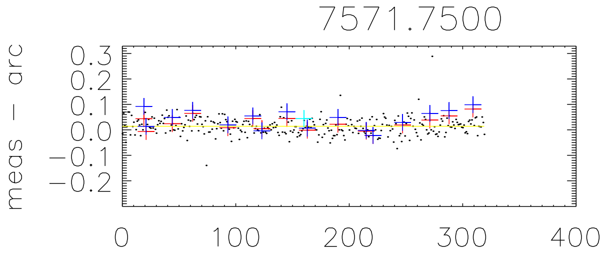

6300.3040
meas - arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

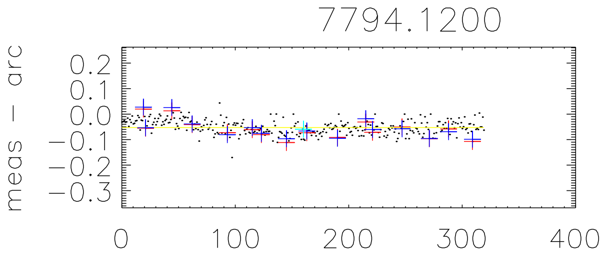

6363.7760
meas - arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

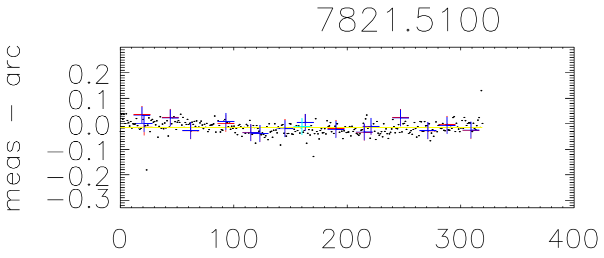

6553.6100
meas - arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

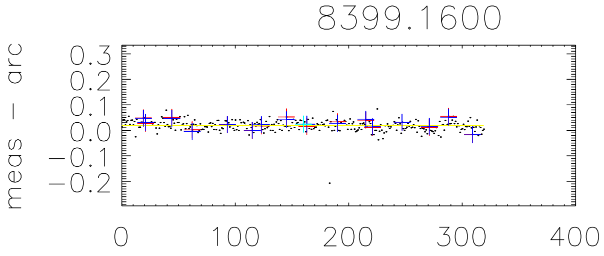

6923.2100
meas - arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

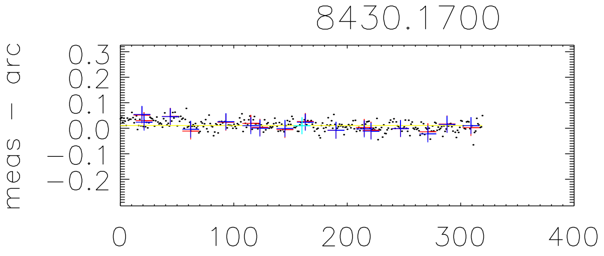

6949.0300
meas - arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

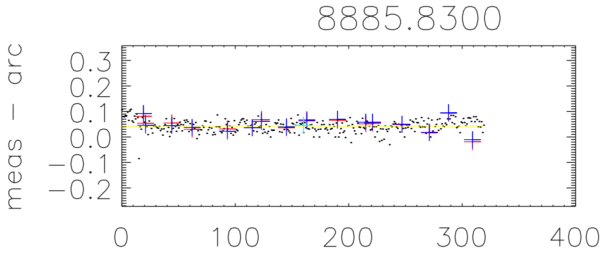

7571.7500
meas - arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

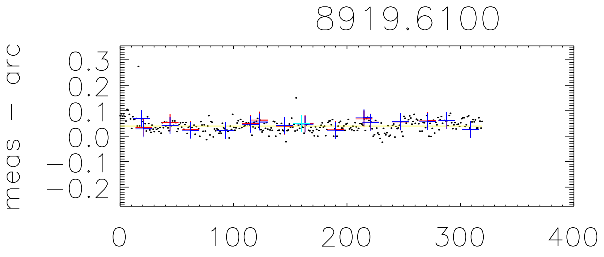

7794.1200
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

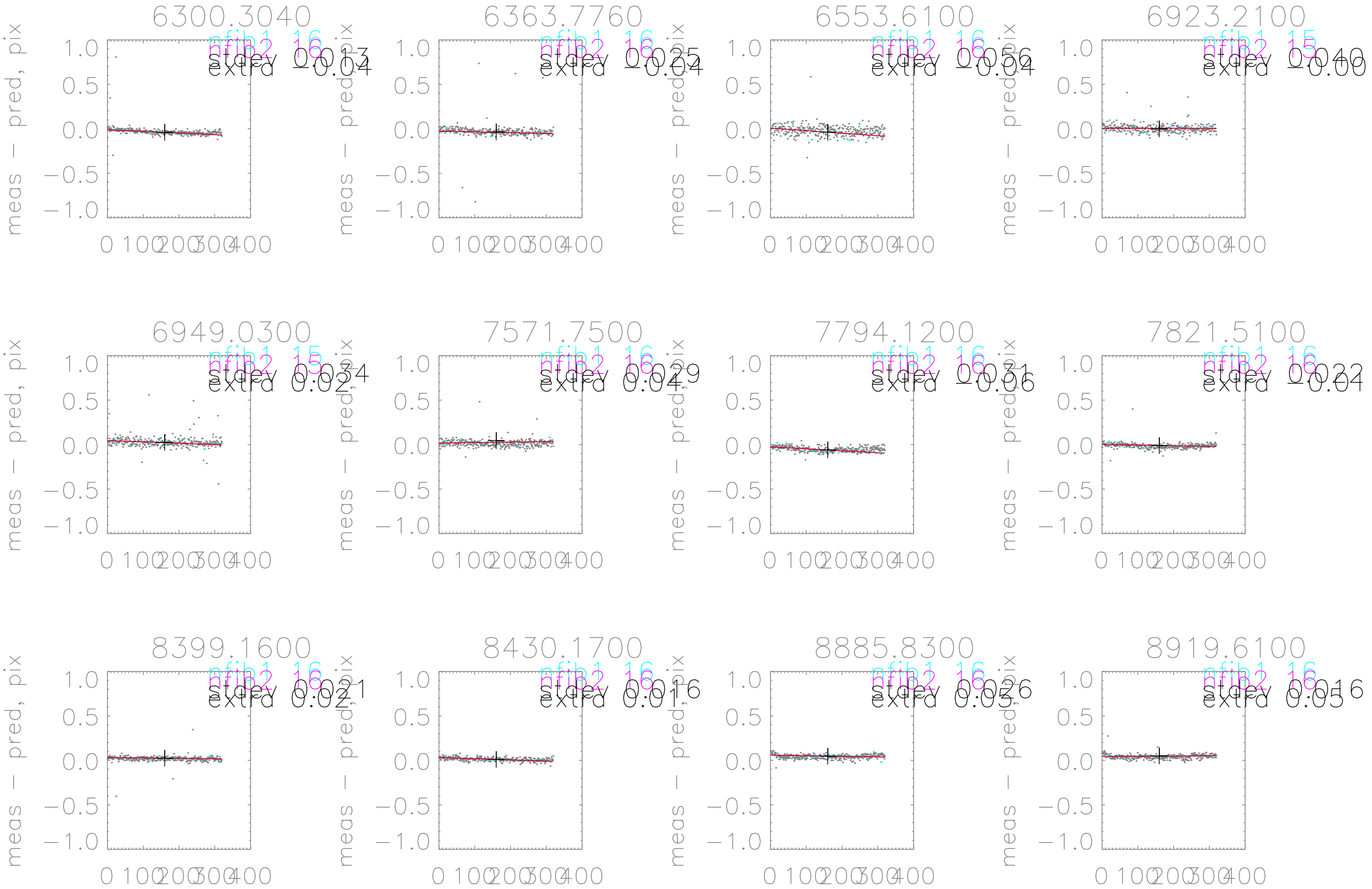

7821.5100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

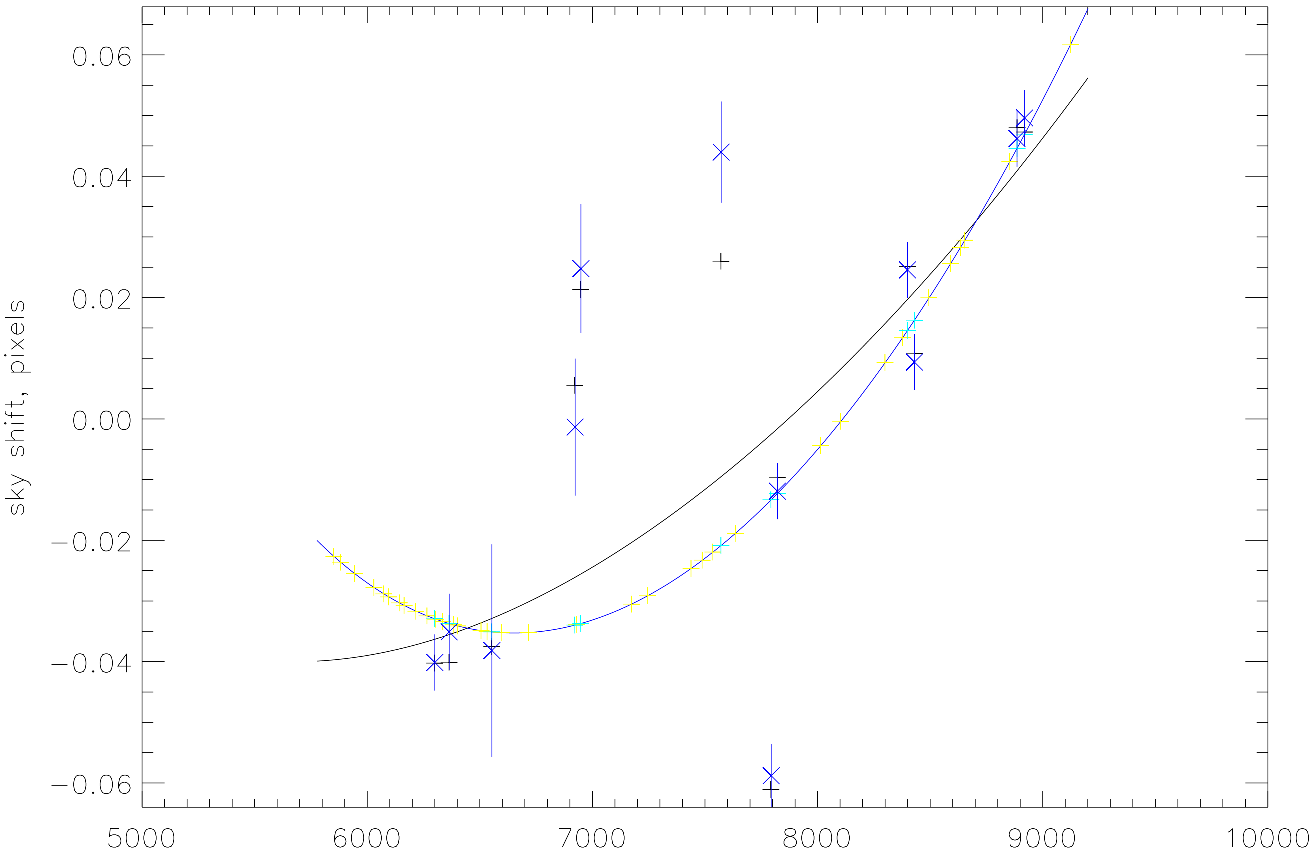

8399.1600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

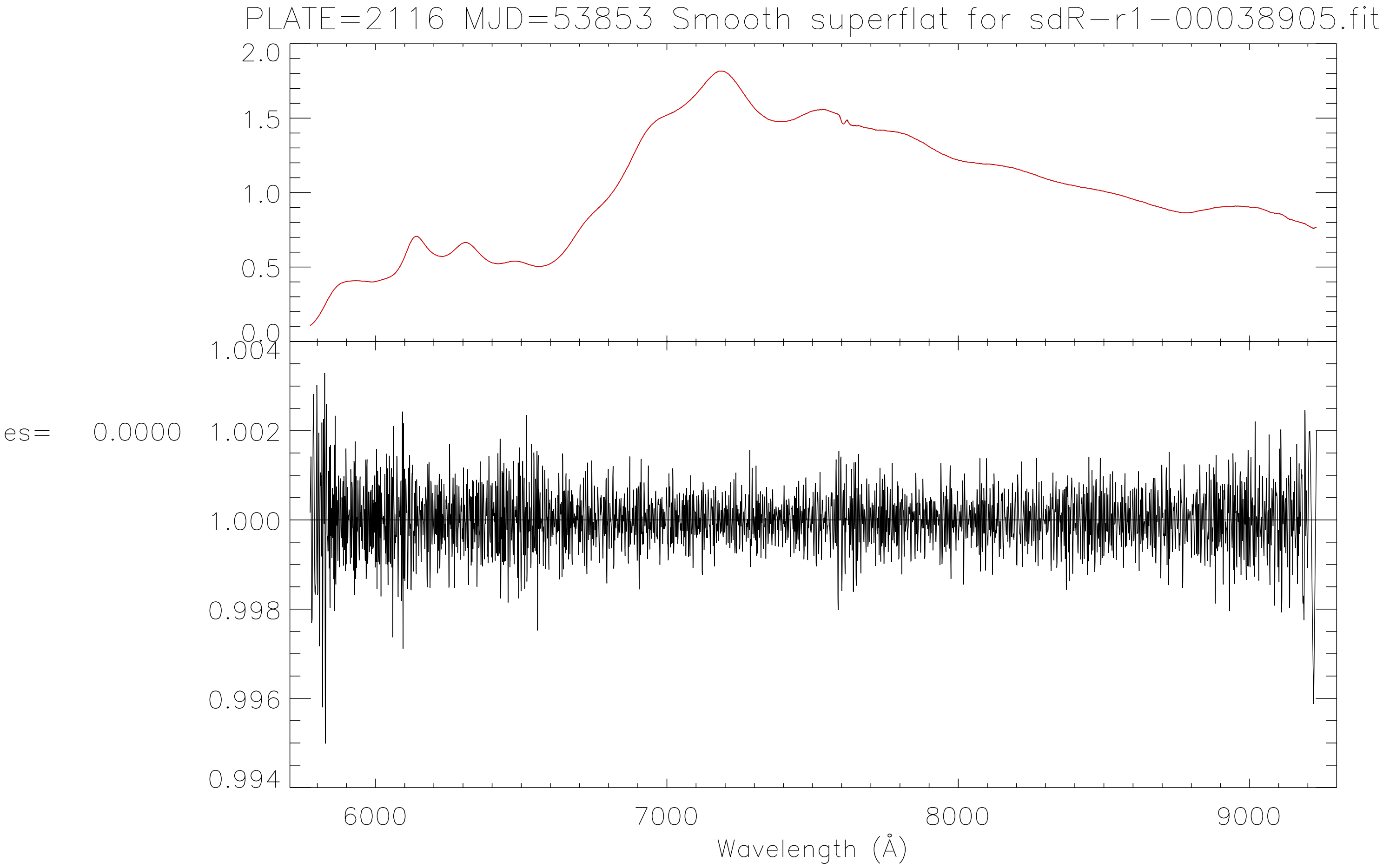

8430.1700
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


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

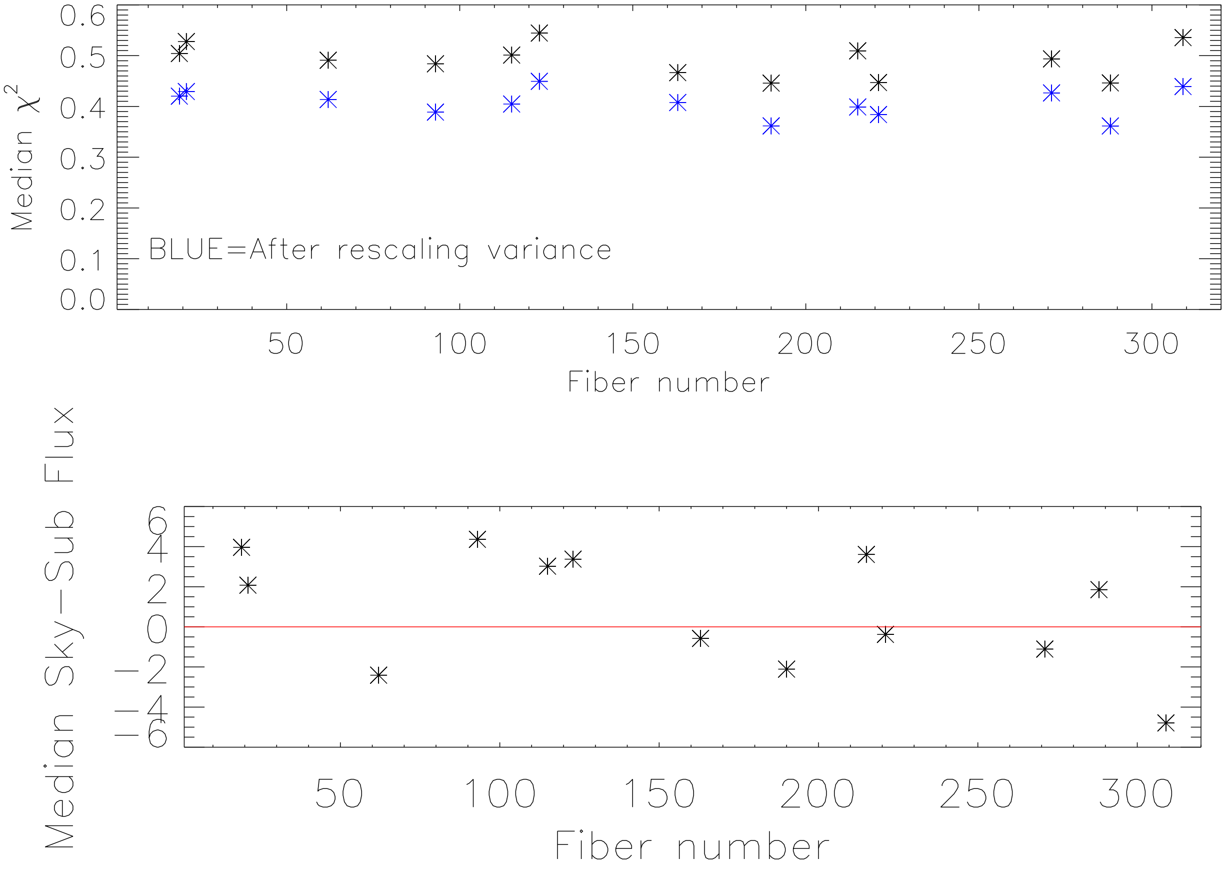

8919.6100
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

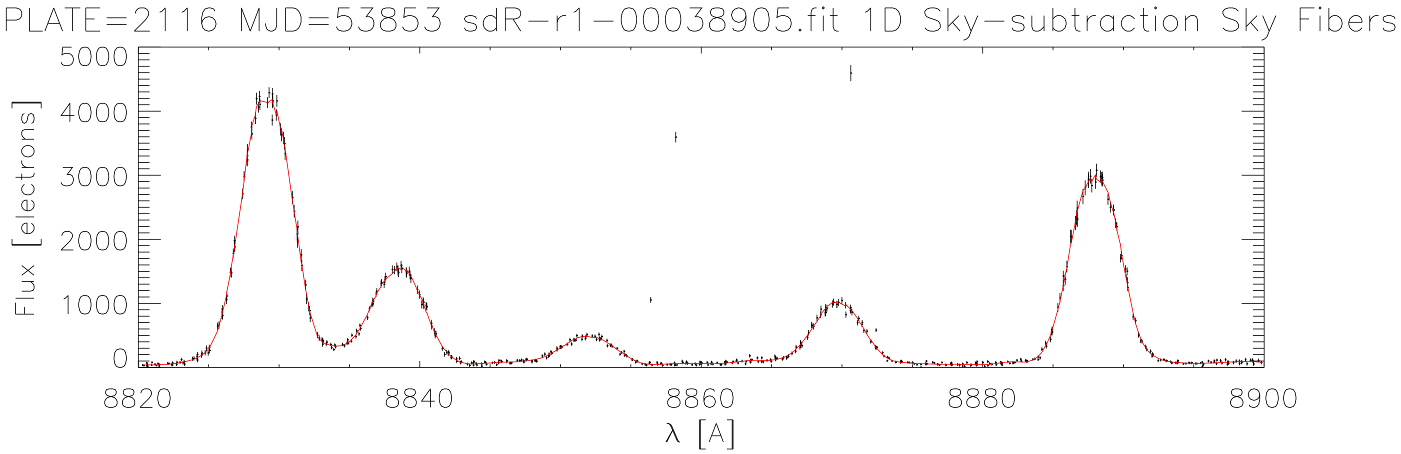

6300.3040
nfib1 16
nfib2 16
stdev 0.013
extrd −0.04
6363.7760
nfib1 16
nfib2 16
stdev 0.025
extrd −0.04
6553.6100
nfib1 16
nfib2 16
stdev 0.056
extrd −0.04
6923.2100
nfib1 15
nfib2 15
stdev 0.040
extrd −0.00
6949.0300
nfib1 15
nfib2 15
stdev 0.034
extrd 0.02
7571.7500
nfib1 16
nfib2 16
stdev 0.029
extrd 0.04
7794.1200
nfib1 16
nfib2 16
stdev 0.031
extrd −0.06
7821.5100
nfib1 16
nfib2 16
stdev 0.022
extrd −0.04
8399.1600
nfib1 16
nfib2 16
stdev 0.021
extrd 0.02
8430.1700
nfib1 16
nfib2 16
stdev 0.016
extrd 0.01
8885.8300
nfib1 16
nfib2 16
stdev 0.026
extrd 0.05
8919.6100
nfib1 16
nfib2 16
stdev 0.016
extrd 0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

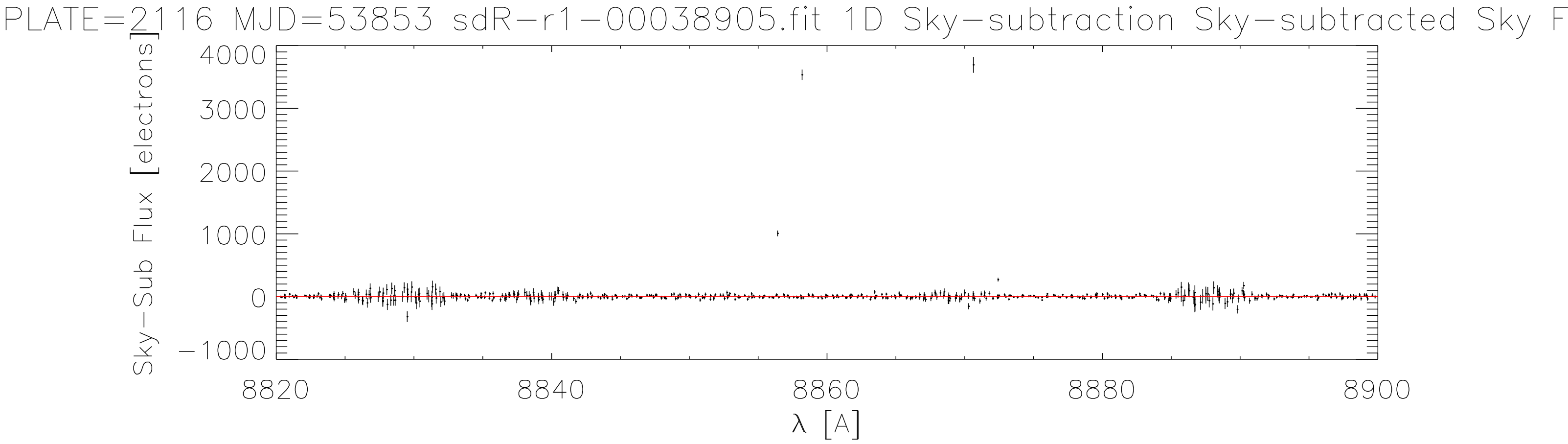

sky shift, pixels
0.06
0.04
0.02
0.00
−0.02
−0.04
−0.06
5000
6000
7000
8000
9000
10000


PLATE=2116 MJD=53853 Smooth superflat for sdR-r1-00038905.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
0.994
es= 0.0000
6000
7000
8000
9000
Wavelength (Å)

PLATE=2116 MJD=53853 sdR-r1-00038905.fit 1D Sky-subtraction Sky Fiber

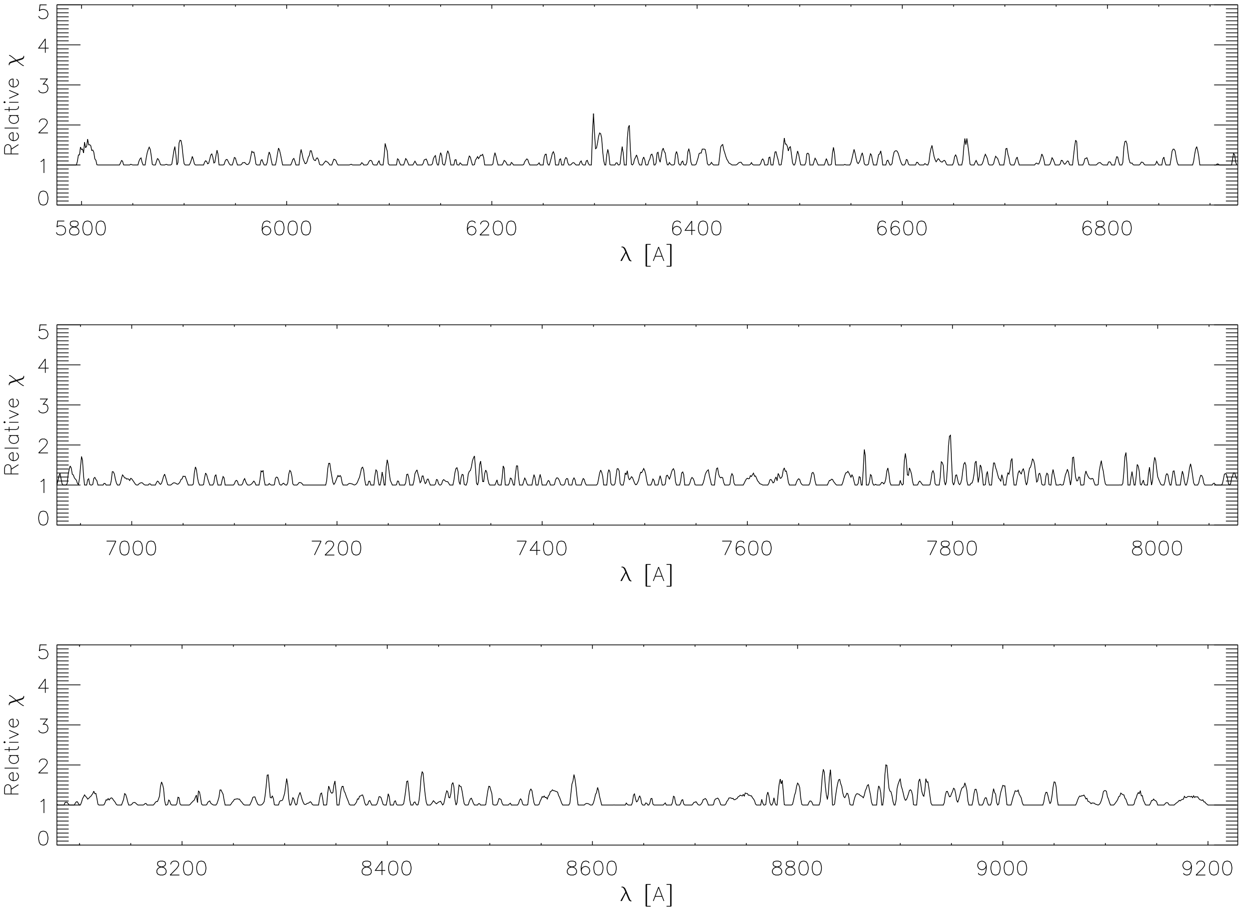



PLATE=2116 MJD=53853 sdR-r1-00038905.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
8820
8840
8860
8880
8900
λ [A]

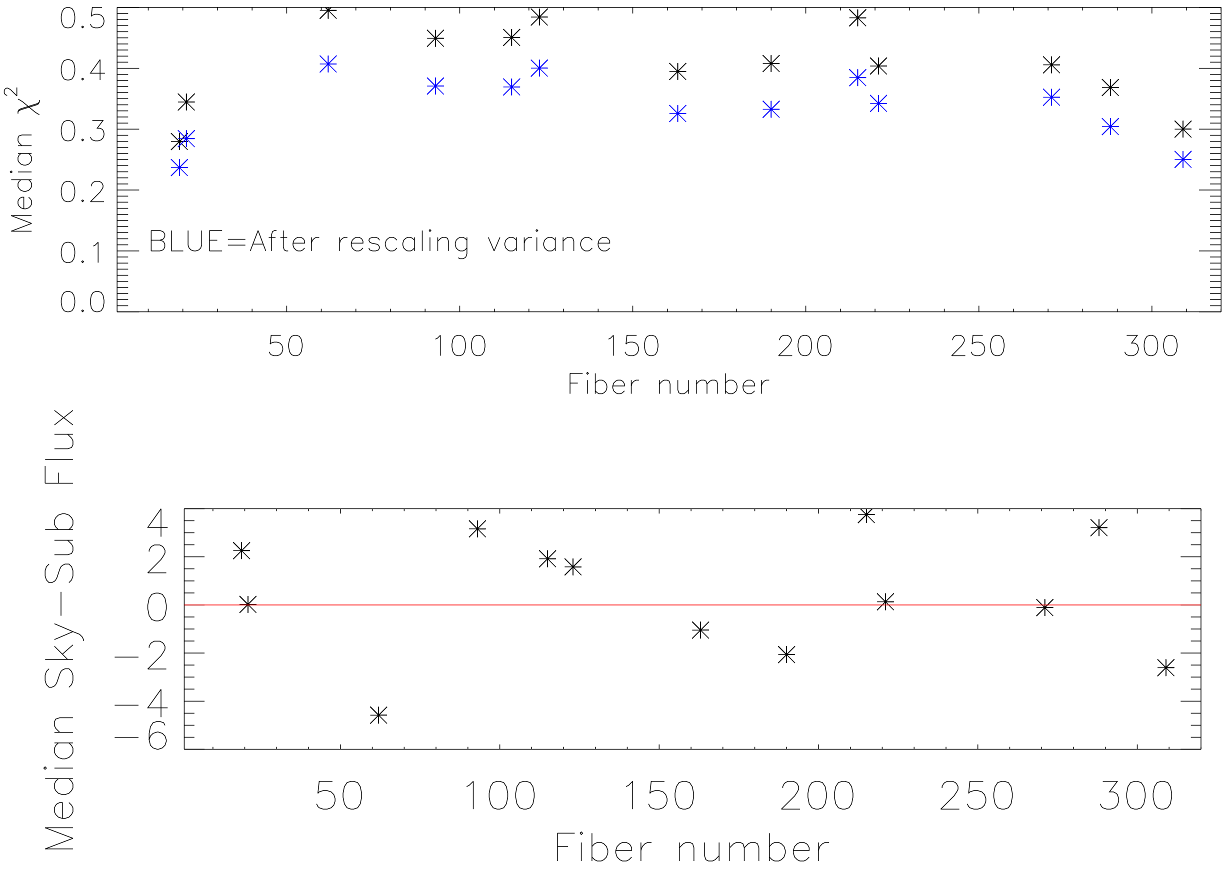

PLATE=2116 MJD=53853 sdR-r1-00038905.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

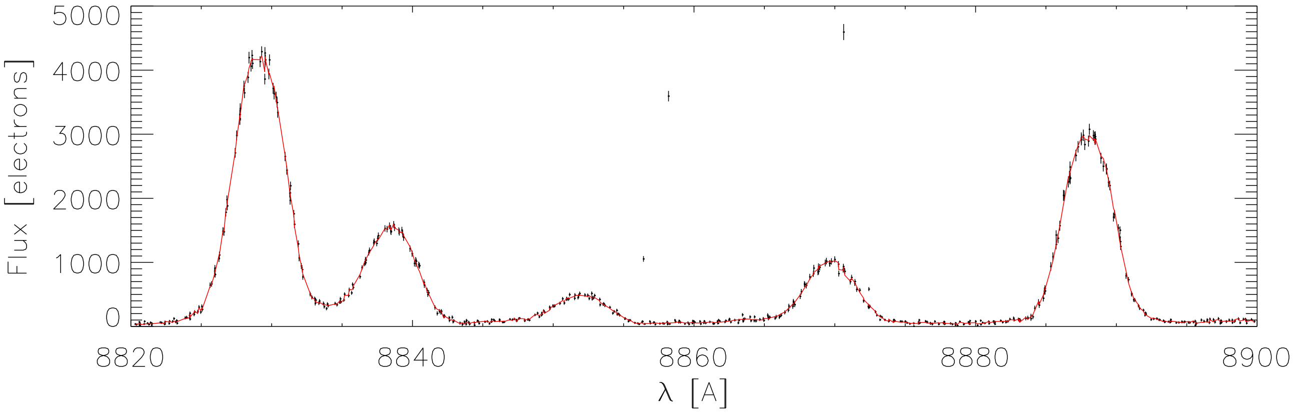
Number of sky fibers = 13

PLATE=2116 MJD=53853 sdR-r1-00038905.fit 1D Sky-subtraction Rescaled Errors

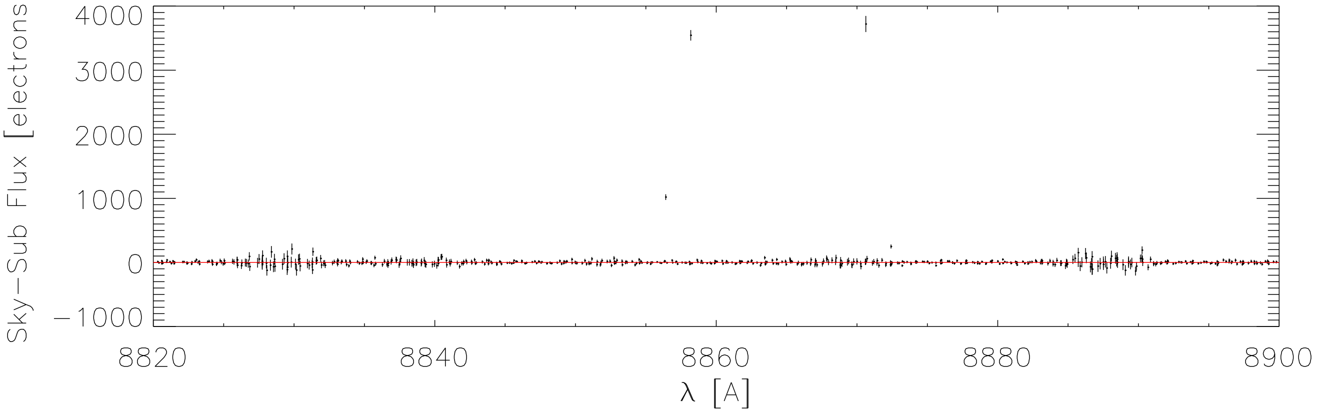


PLATE=2116 MJD=53853 sdR-r1-00038905.fit 2D Sky-subtraction Sky Fiber





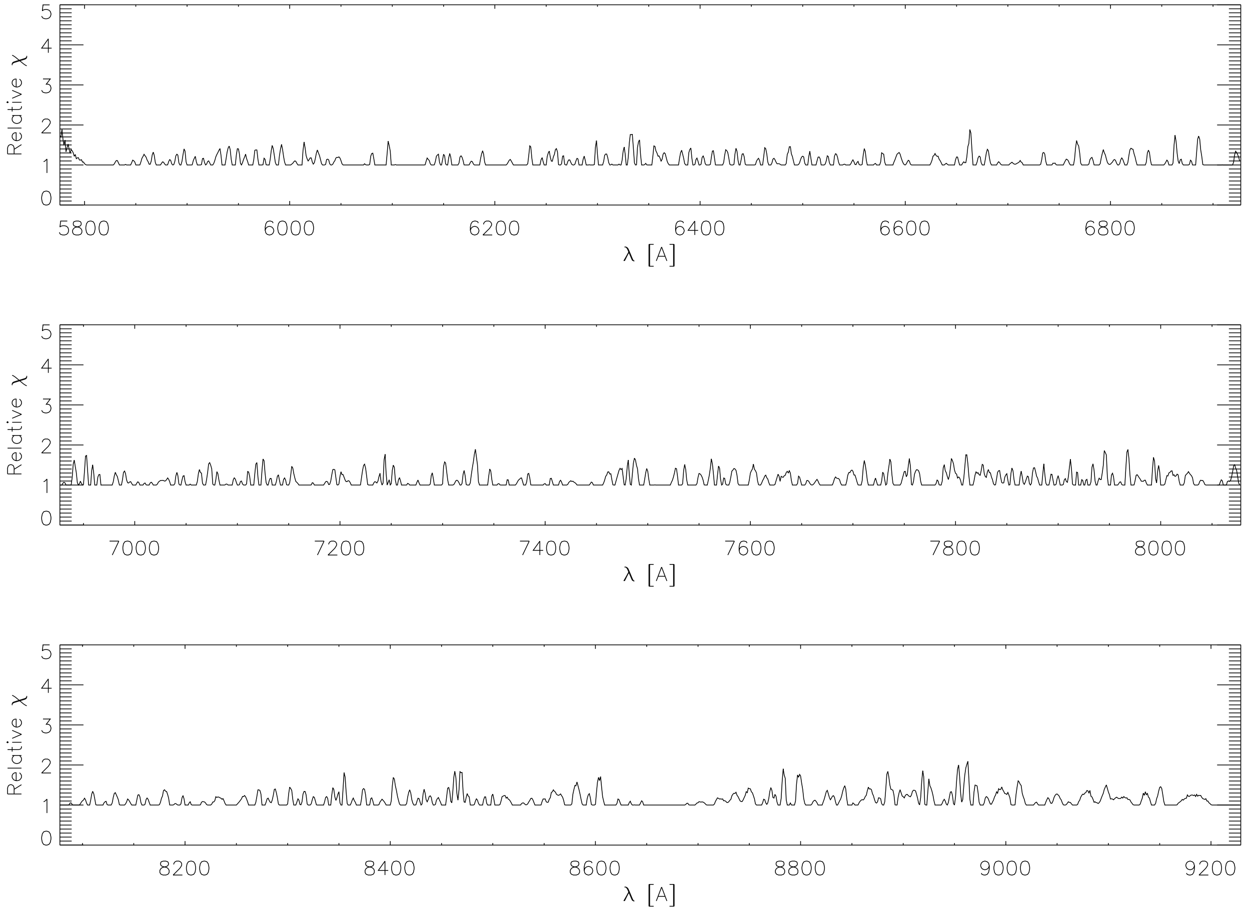
PLATE=2116 MJD=53853 sdR-r1-00038905.fit 2D Sky-subtraction Sky Fibers

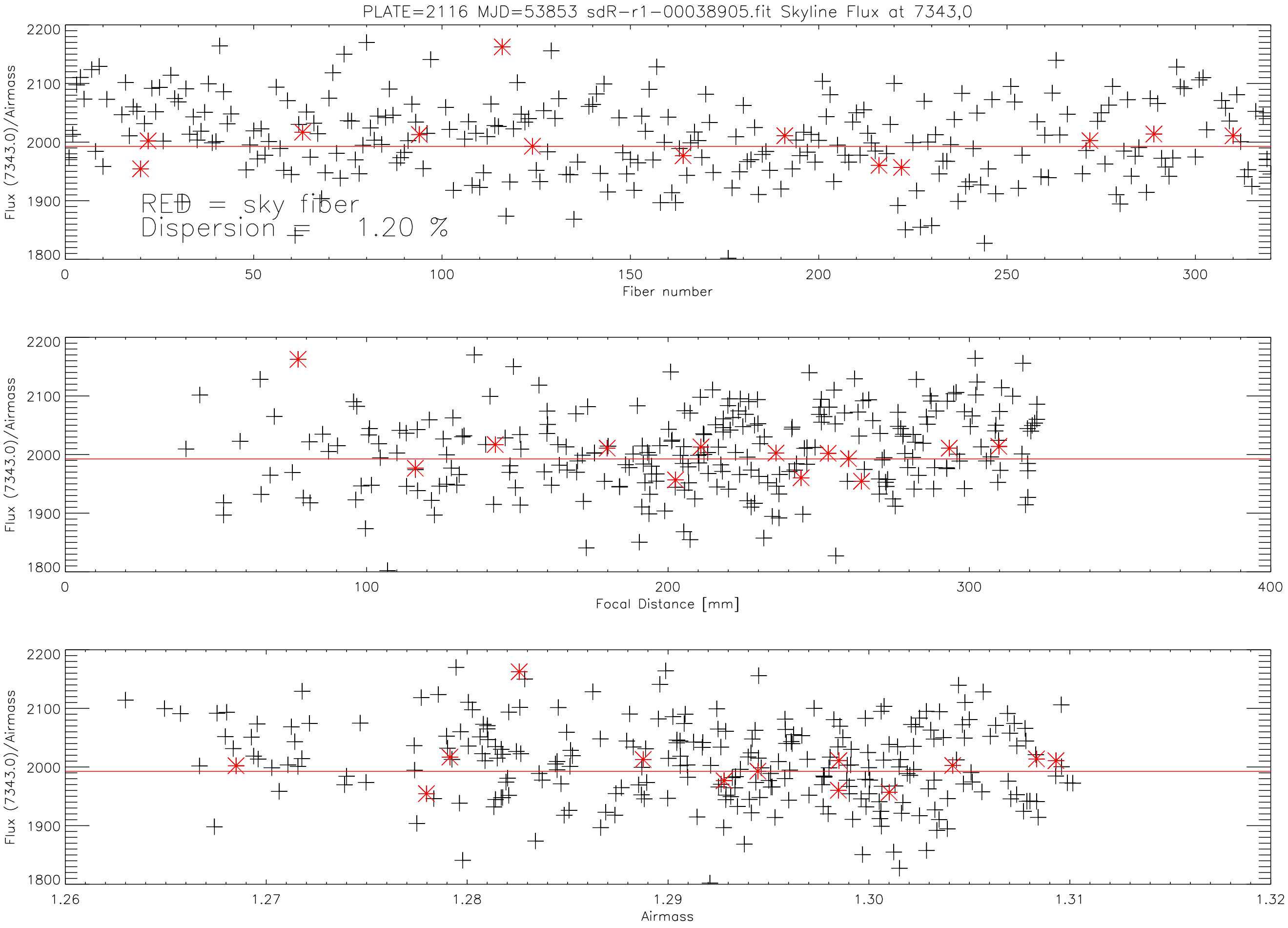


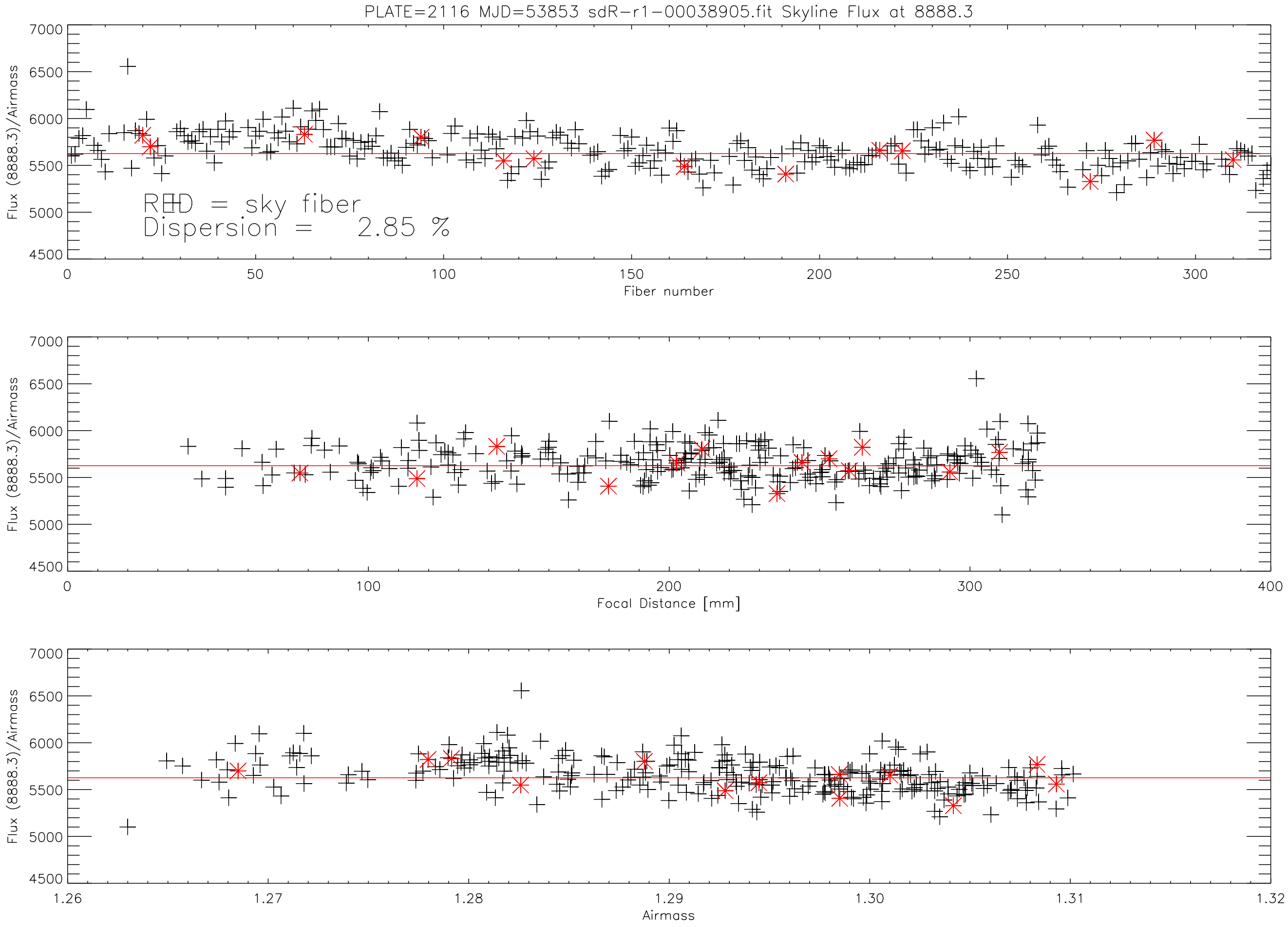
PLATE=2116 MJD=53853 sdR-r1-00038905.fit 2D Sky-subtraction Sky-subtracted Sky F

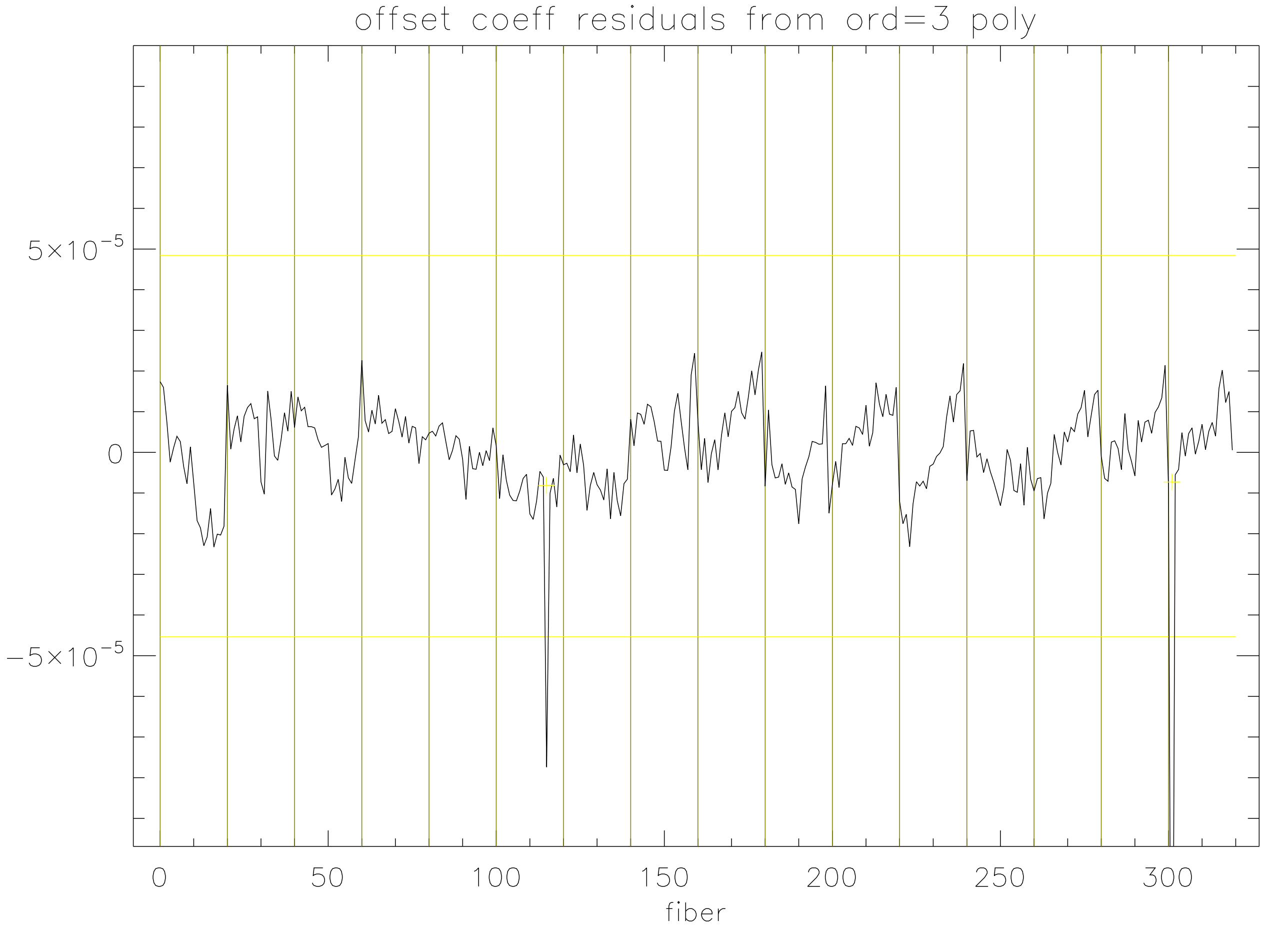
Number of sky fibers = 13

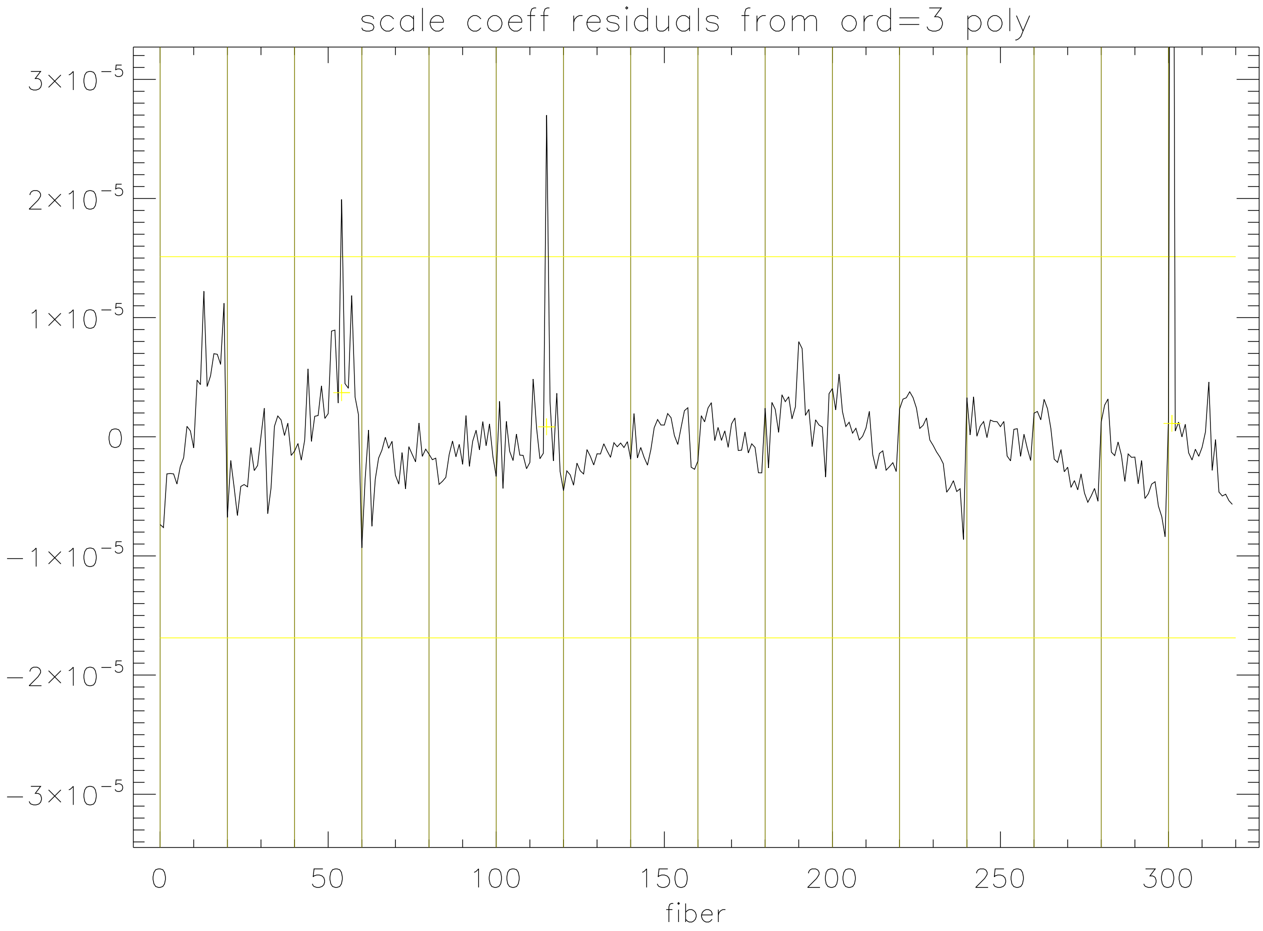
PLATE=2116 MJD=53853 sdR-r1-00038905.fit 2D Sky-subtraction Rescaled Errors

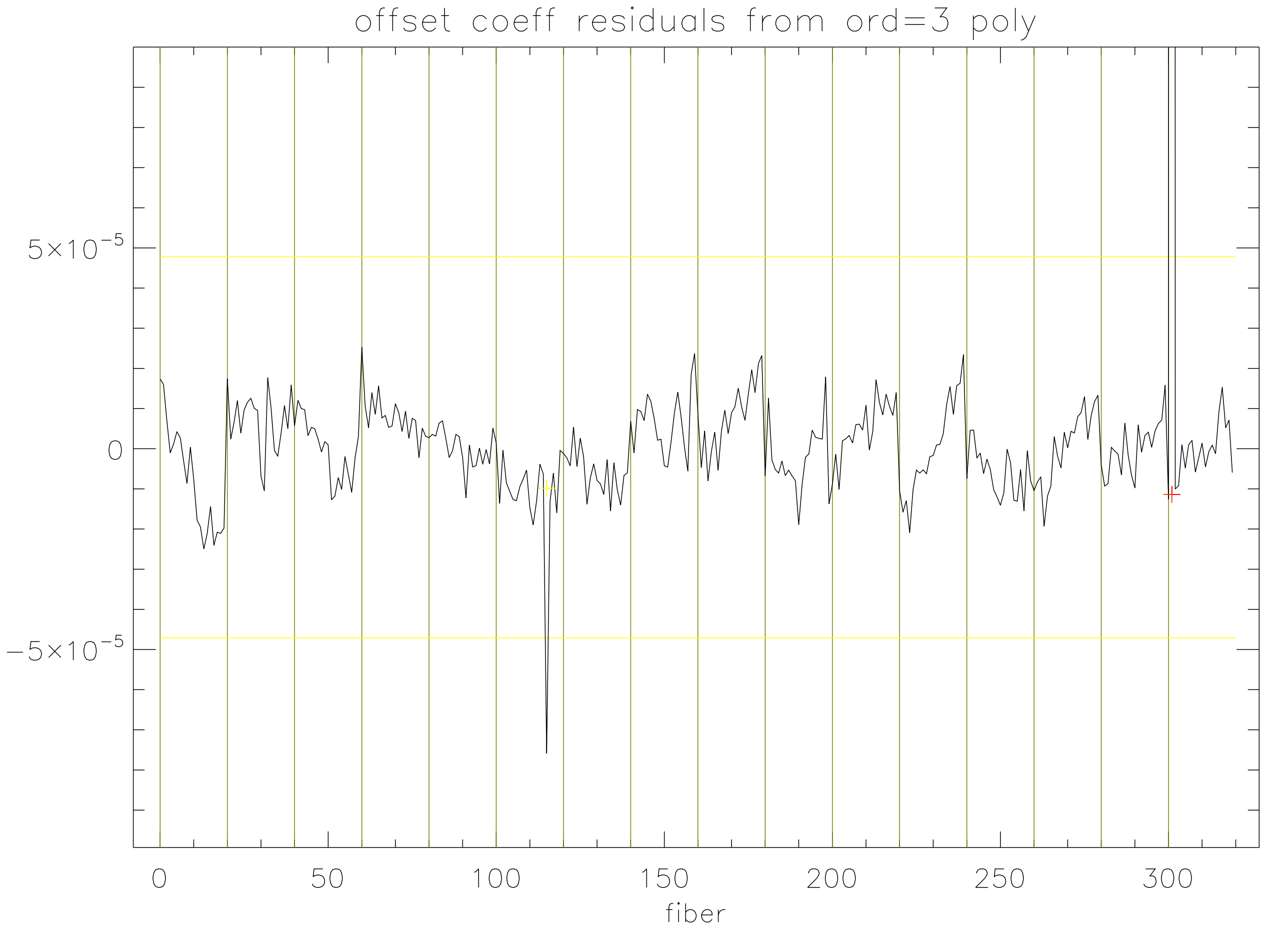


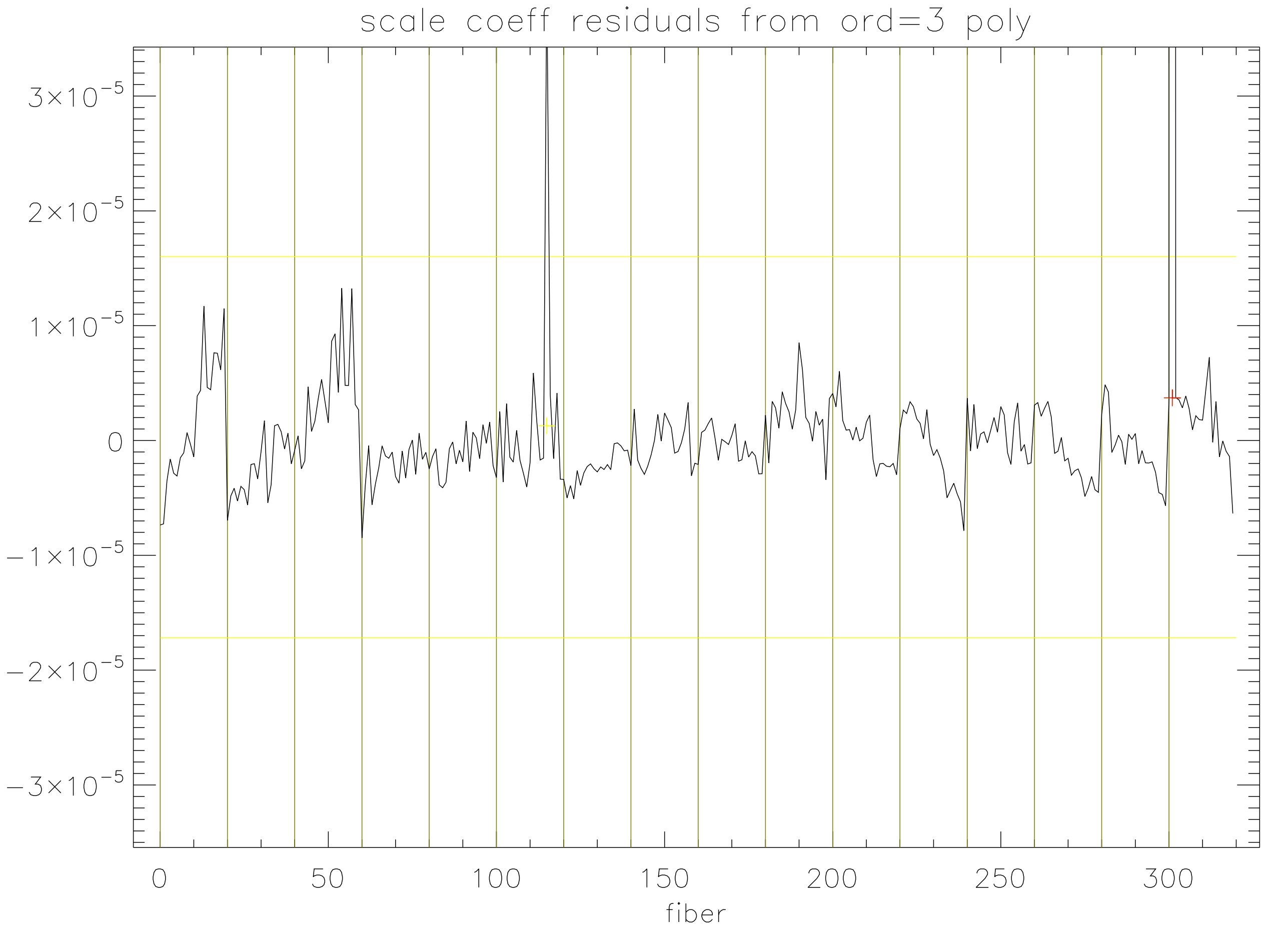

PLATE=2116 MJD=53853 sdR−r1−00038905.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
2200
2100
2000
1900
1800
RED = sky fiber
Dispersion = 1.20 %
0
50
100
150
200
250
300
Fiber number
Flux (7343.0)/Airmass
2200
2100
2000
1900
1800
0
100
200
300
400
Focal Distance [mm]
Flux (7343.0)/Airmass
2200
2100
2000
1900
1800
1.26
1.27
1.28
1.29
1.30
1.31
1.32
Airmass

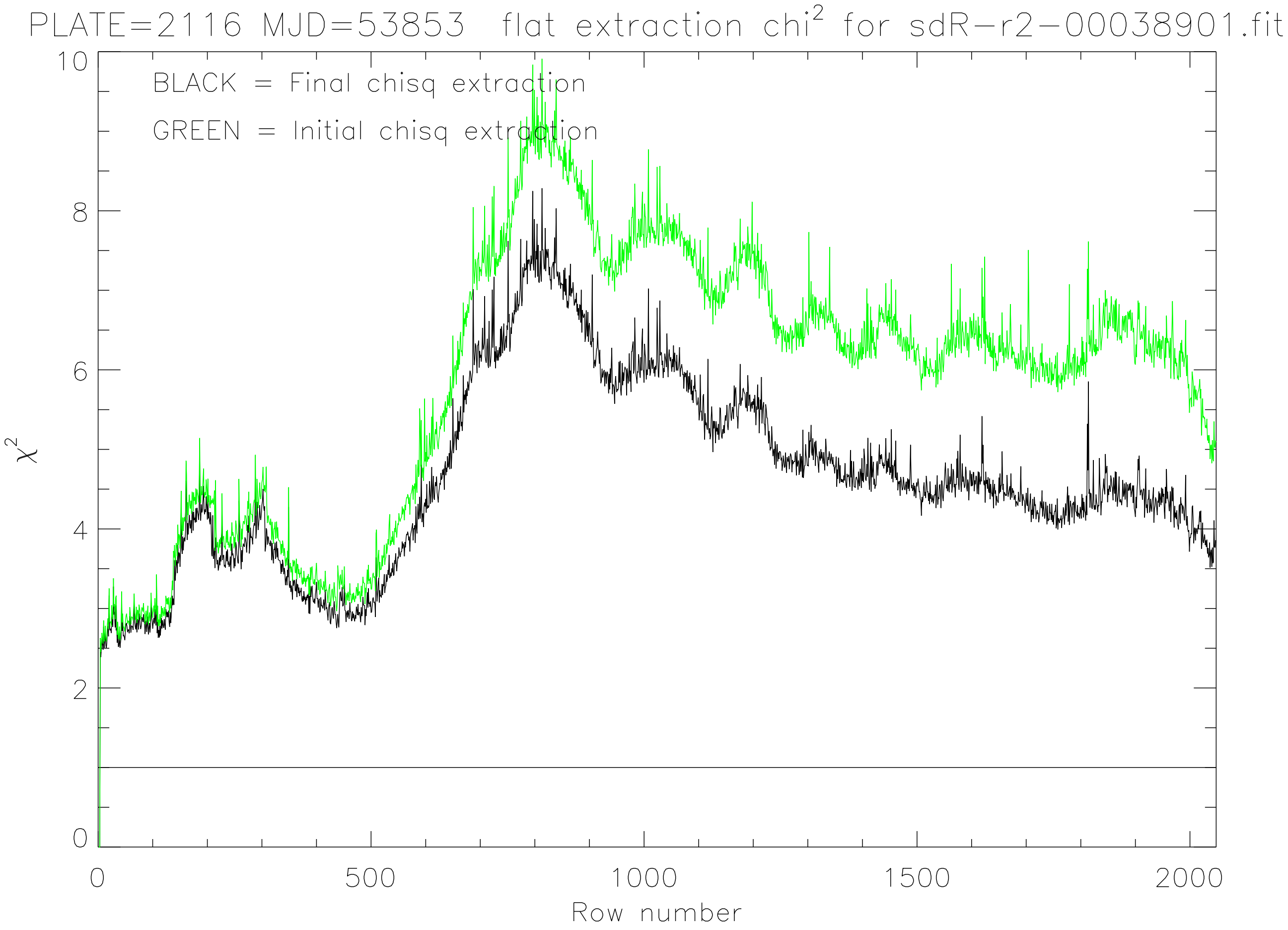

PLATE=2116 MJD=53853 sdR-r1-00038905.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
7000
6500
6000
5500
5000
4500
RED = sky fiber
Dispersion = 2.85 %
0
50
100
150
200
250
300
Fiber number
Flux (8888.3)/Airmass
7000
6500
6000
5500
5000
4500
0
100
200
300
400
Focal Distance [mm]
Flux (8888.3)/Airmass
7000
6500
6000
5500
5000
4500
1.26
1.27
1.28
1.29
1.30
1.31
1.32
Airmass

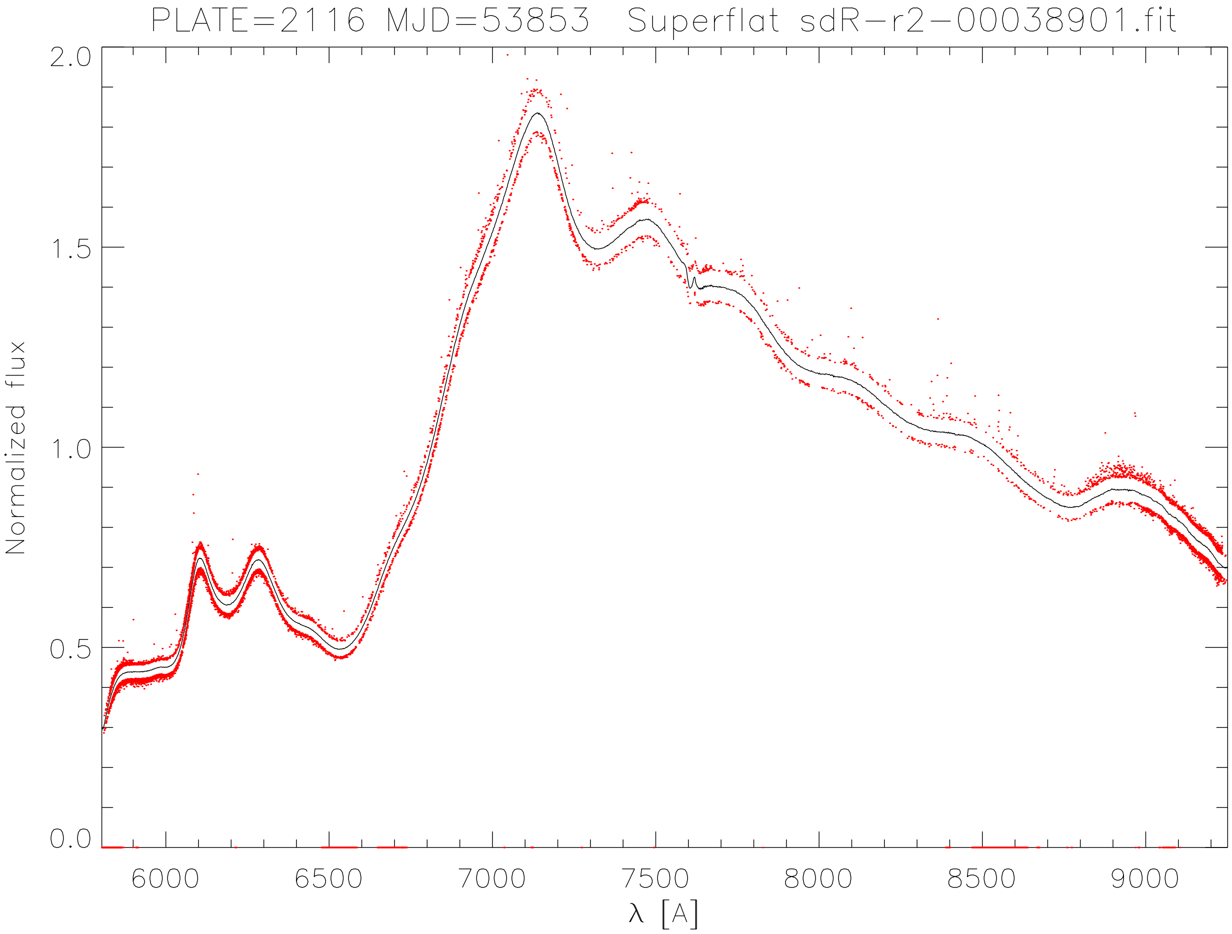

offset coeff residuals from ord=3 poly
5×10^{-5}
0
−5×10^{-5}
0
50
100
150
200
250
300
fiber

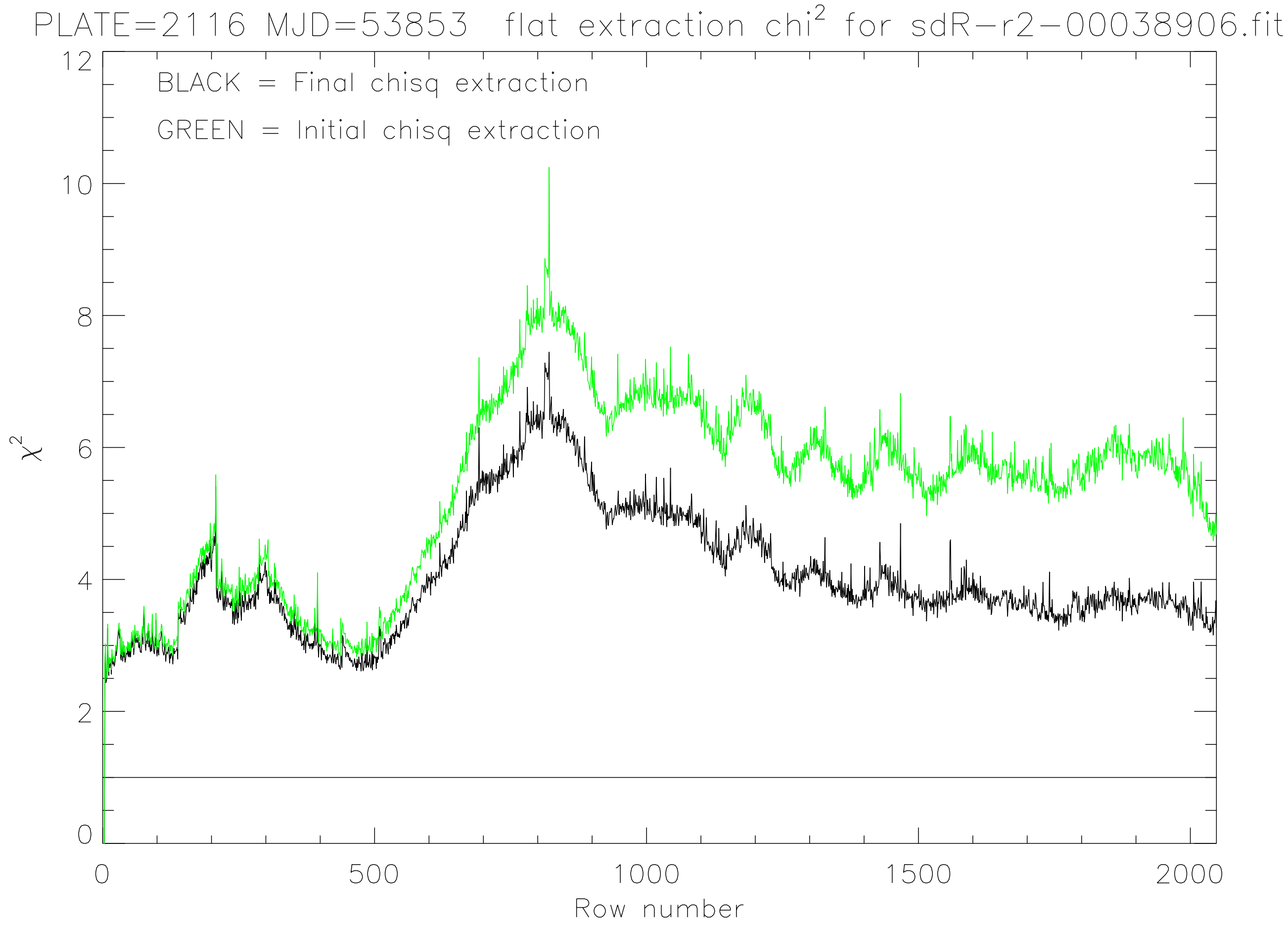

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber

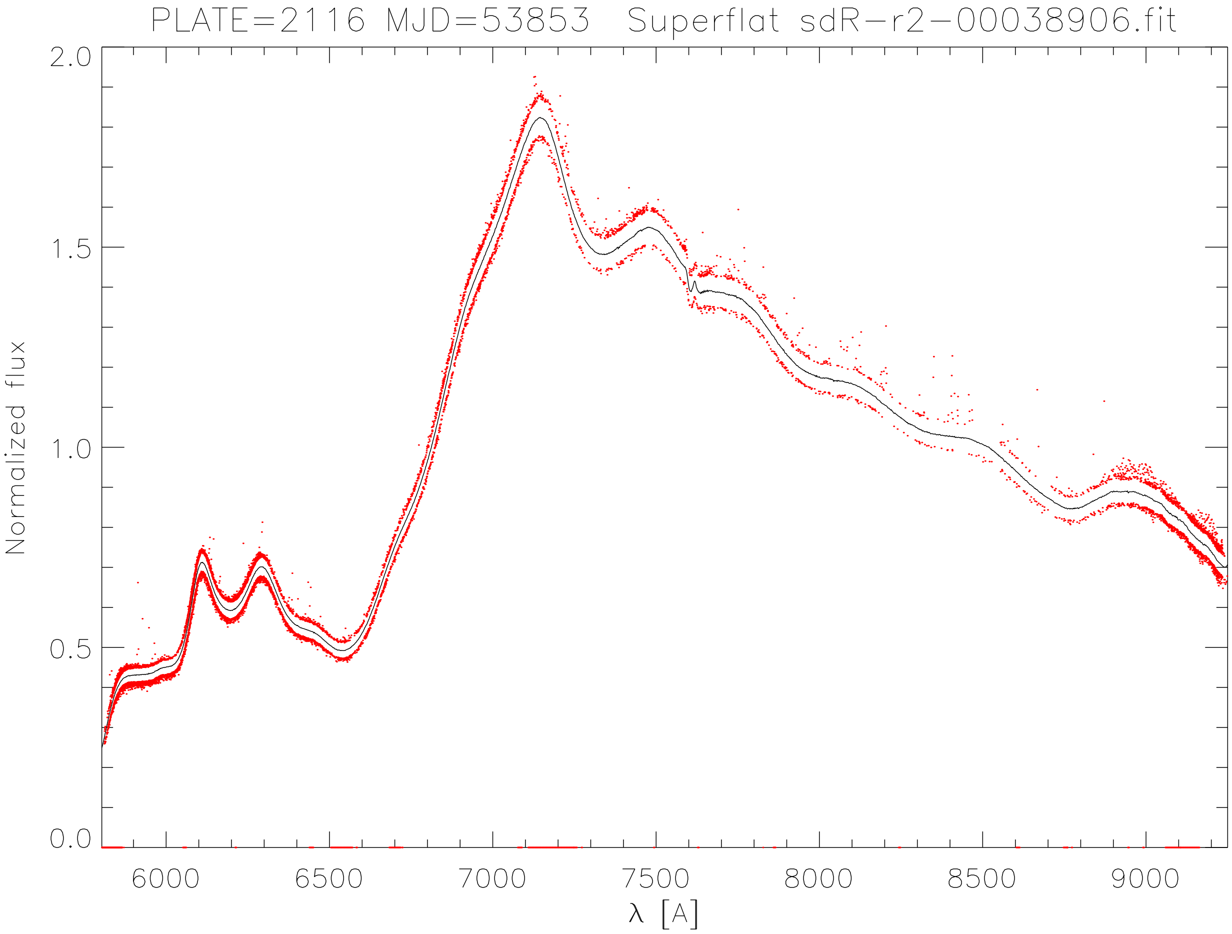

offset coeff residuals from ord=3 poly
5×10⁻⁵
0
−5×10⁻⁵
0
50
100
150
200
250
300
fiber

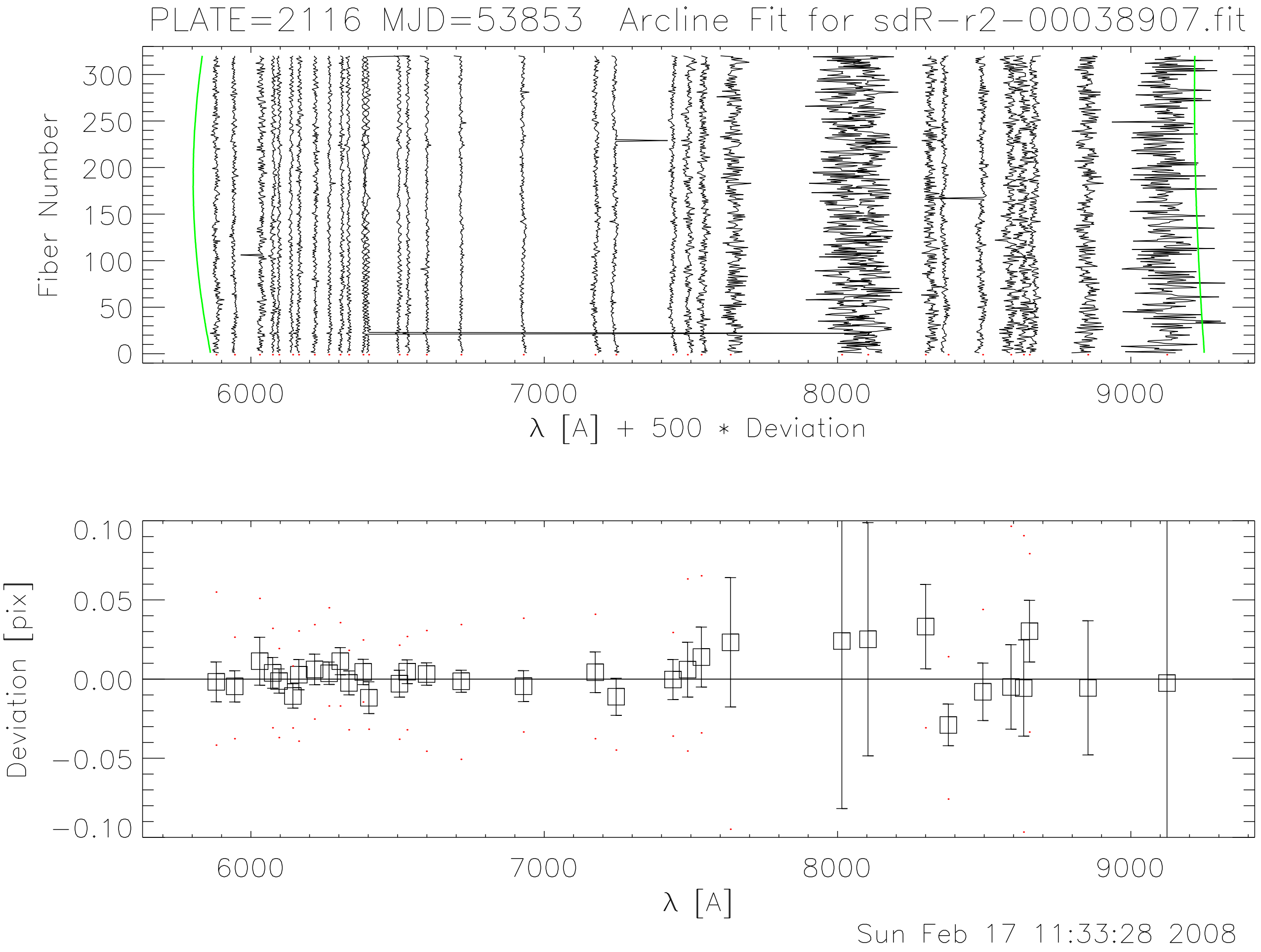

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber


PLATE=2116 MJD=53853 flat extraction chi^2 for sdR-r2-00038901.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
0
500
1000
1500
2000
Row number

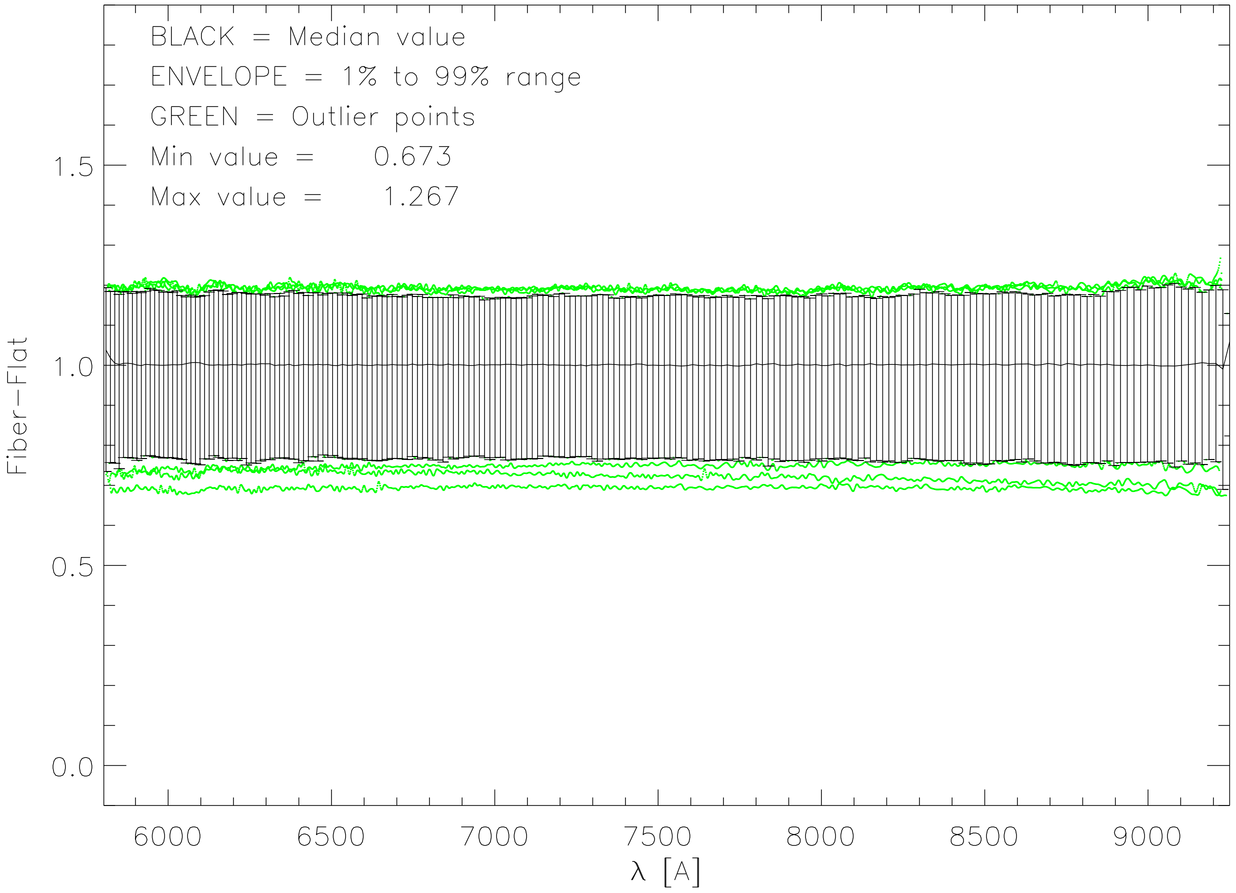

PLATE=2116 MJD=53853 Superflat sdR-r2-00038901.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
2.0
6000
6500
7000
7500
8000
8500
9000


PLATE=2116 MJD=53853 flat extraction chi^2 for sdR-r2-00038906.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
0
500
1000
1500
2000
Row number


PLATE=2116 MJD=53853 Superflat sdR-r2-00038906.fit
Normalized flux
2.0
1.5
1.0
0.5
0.0
6000
6500
7000
7500
8000
8500
9000
λ [A]

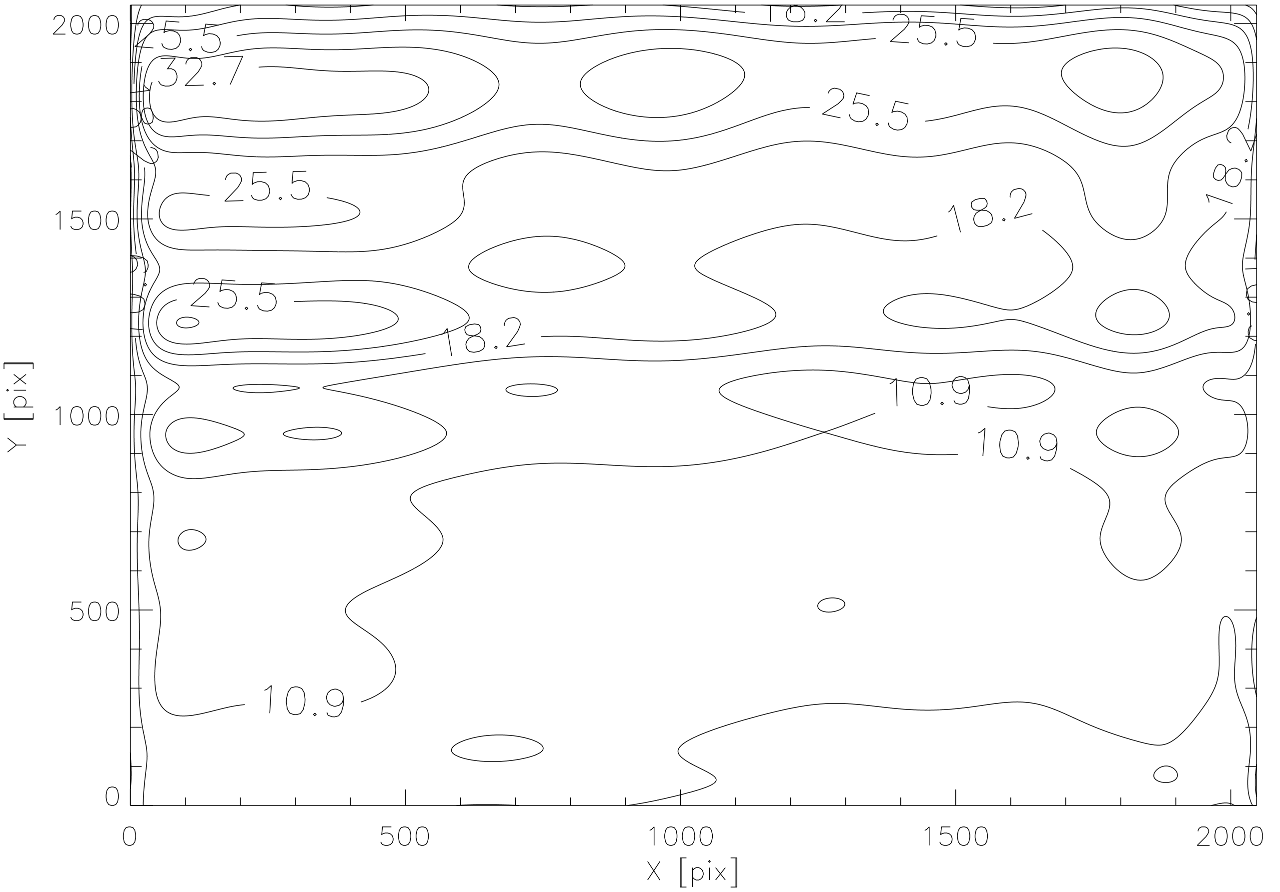

PLATE=2116 MJD=53853 Arcline Fit for sdR-r2-00038907.fit
Fiber Number
0
50
100
150
200
250
300
6000
7000
8000
9000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
6000
7000
8000
9000
λ [A]
Sun Feb 17 11:33:28 2008

PLATE=2116 MJD=53853 Fiber−Flats for sdR−r2−00038906.fit

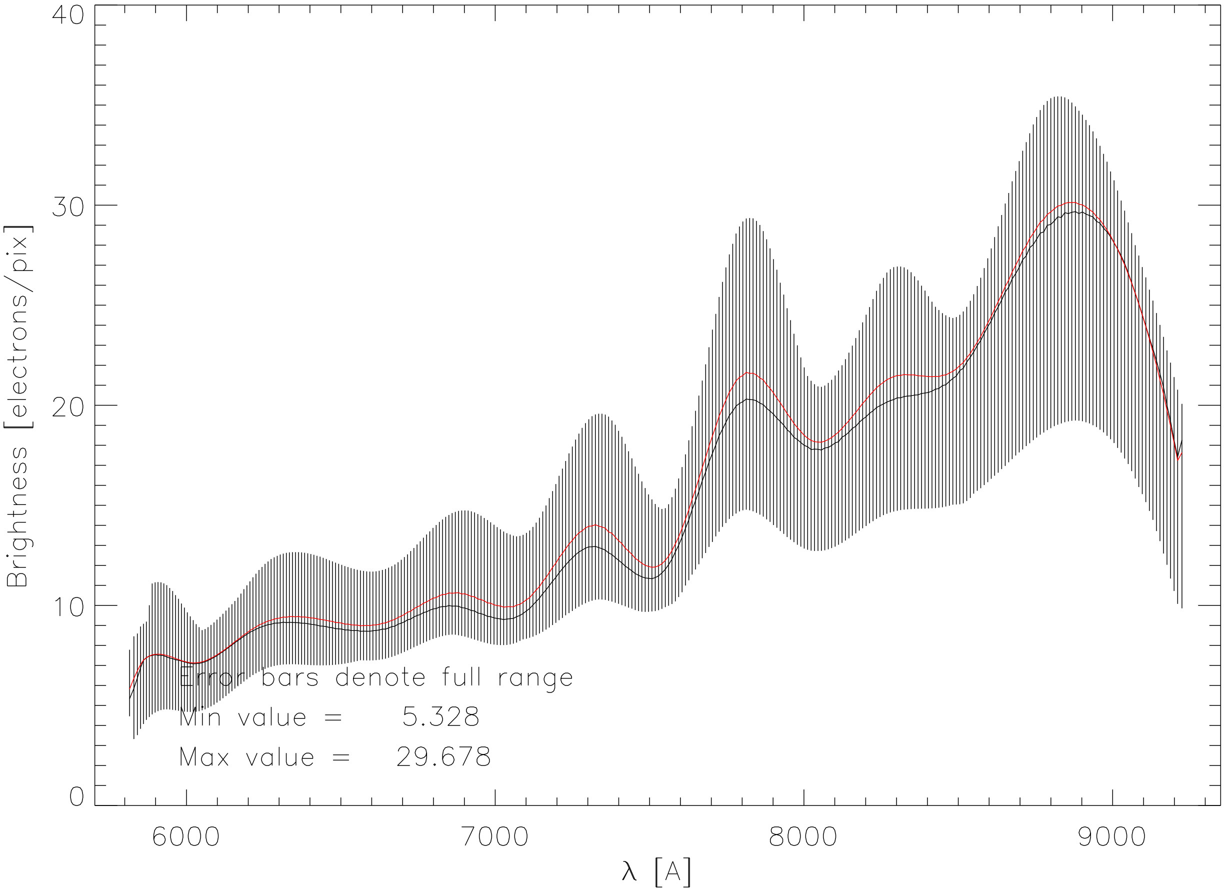


Sun Feb 17 11:33:37 2008

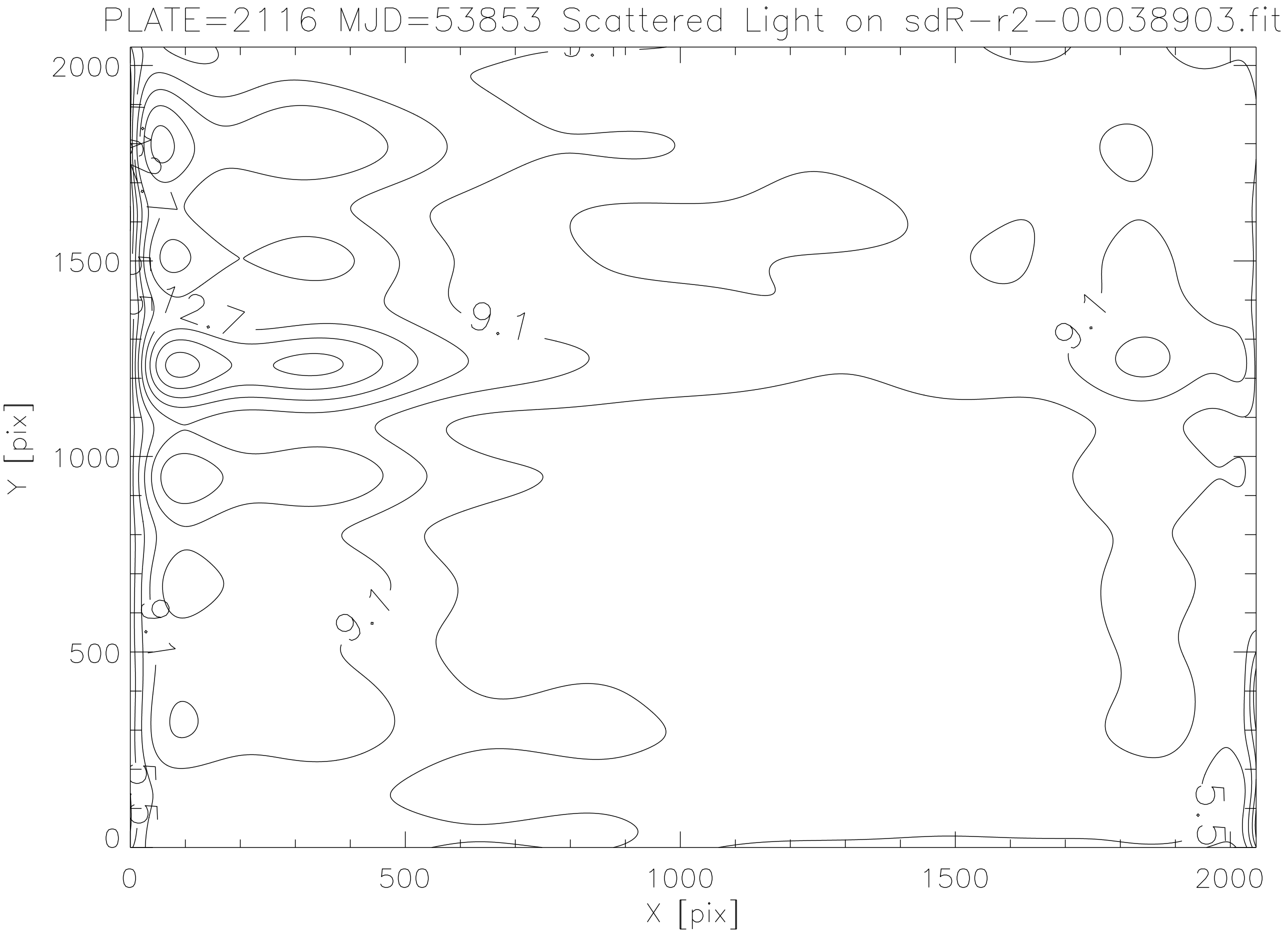
PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-r2-00038903.fi



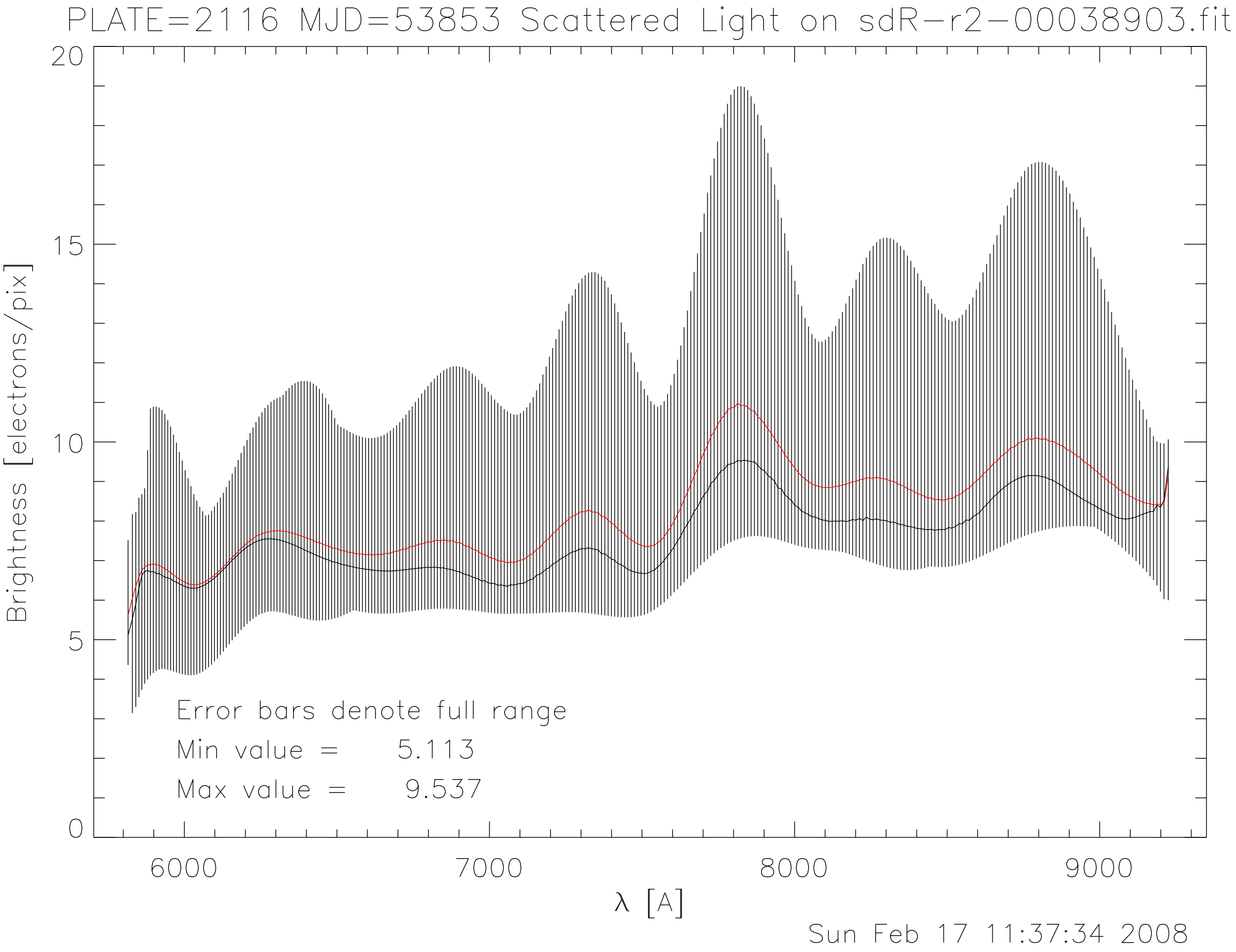
PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-r2-00038903.fi

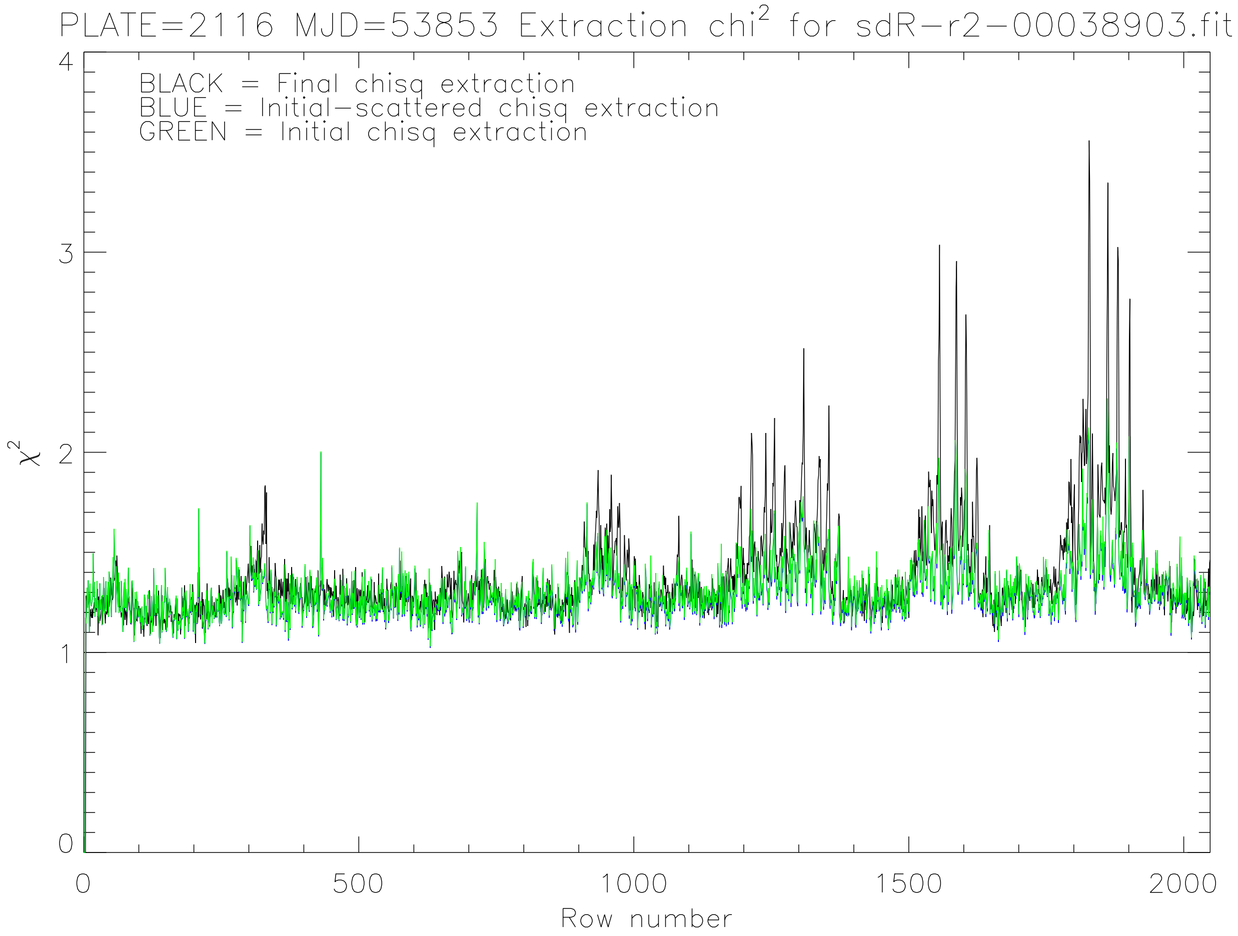


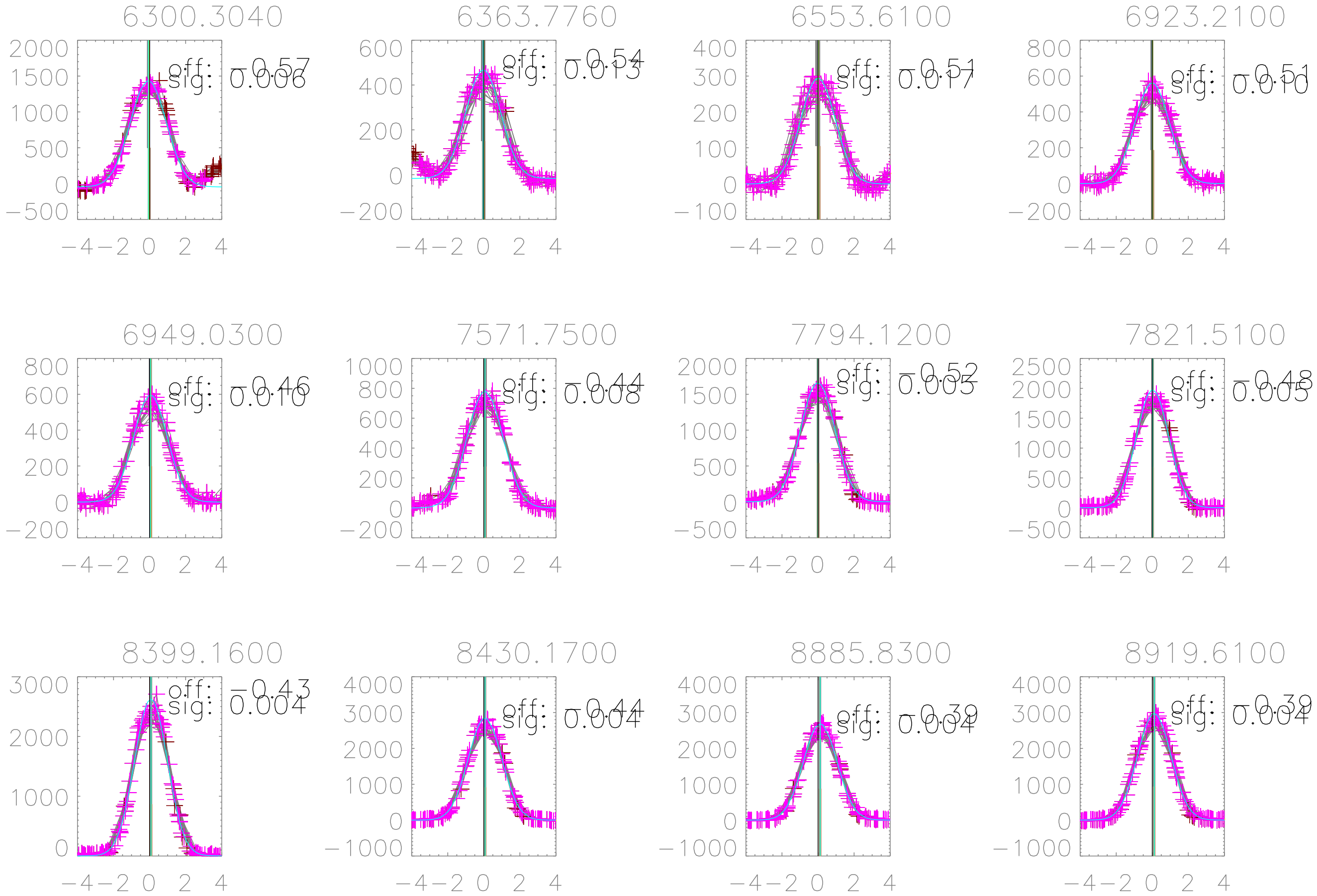
Sun Feb 17 11:34:33 2008

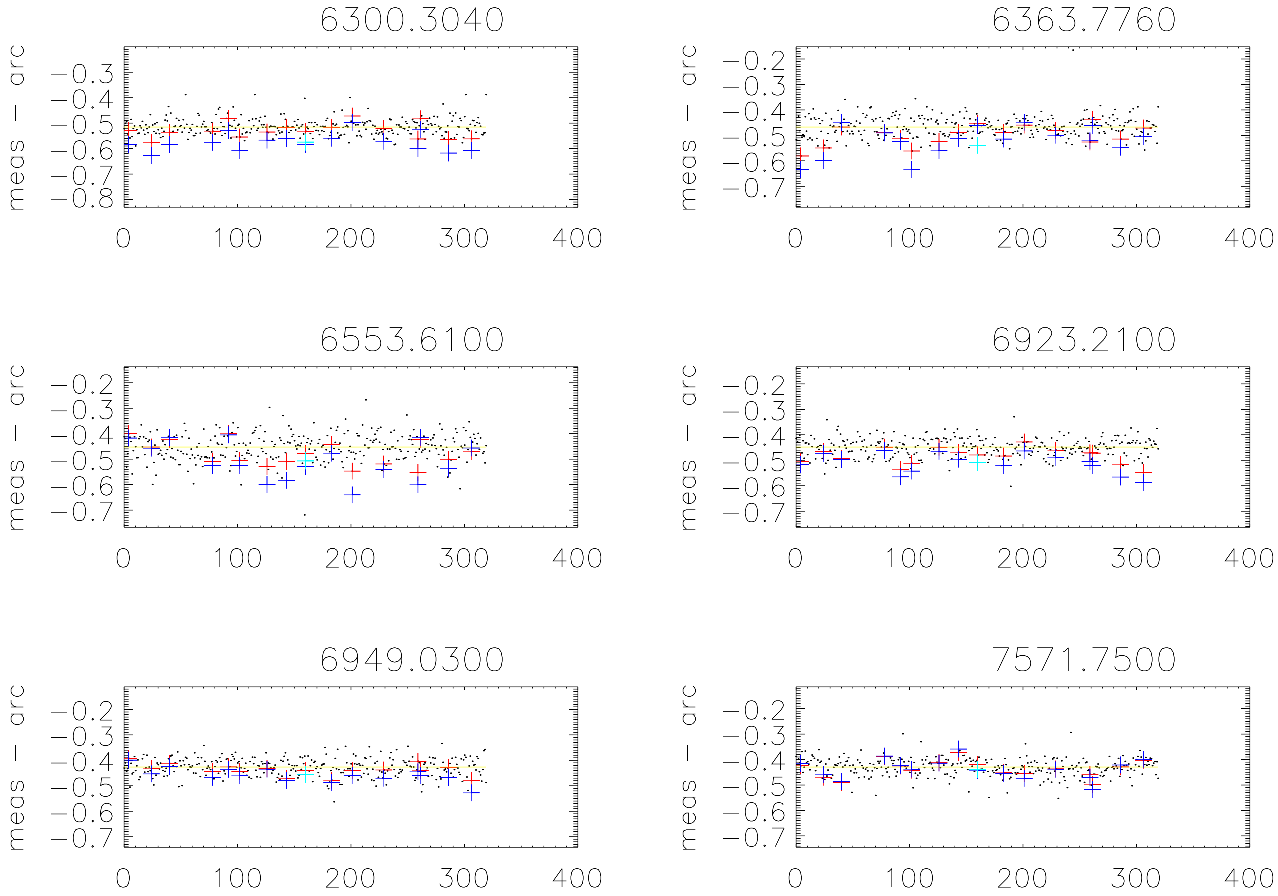


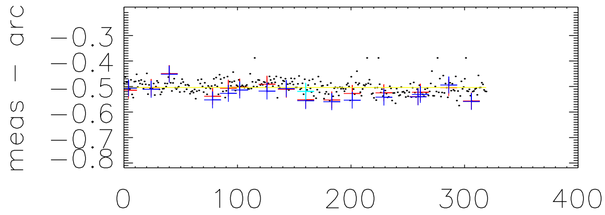
PLATE=2116 MJD=53853 Scattered Light on sdR-r2-00038903.fit

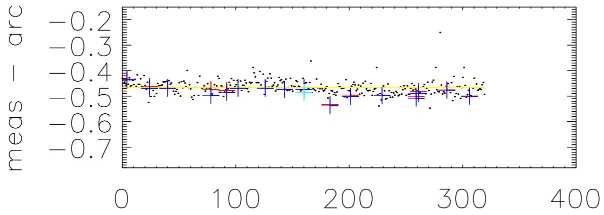

PLATE=2116 MJD=53853 Scattered Light on sdR-r2-00038903.fit
Brightness [electrons/pix]
0
5
10
15
20
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 5.113
Max value = 9.537
Sun Feb 17 11:37:34 2008

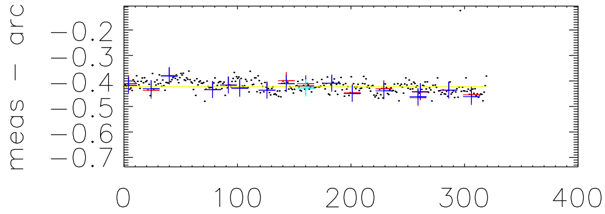

PLATE=2116 MJD=53853 Extraction chi^2 for sdR-r2-00038903.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
0
500
1000
1500
2000
Row number

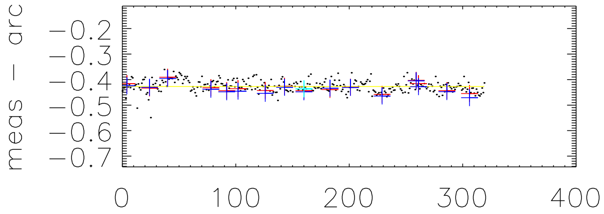

6300.3040
off: −0.57
sig: 0.006
6363.7760
off: −0.54
sig: 0.013
6553.6100
off: −0.51
sig: 0.017
6923.2100
off: −0.51
sig: 0.010
6949.0300
off: −0.46
sig: 0.010
7571.7500
off: −0.44
sig: 0.008
7794.1200
off: −0.52
sig: 0.005
7821.5100
off: −0.48
sig: 0.005
8399.1600
off: −0.43
sig: 0.004
8430.1700
off: −0.44
sig: 0.004
8885.8300
off: −0.39
sig: 0.004
8919.6100
off: −0.39
sig: 0.004
−4 −2 0 2 4

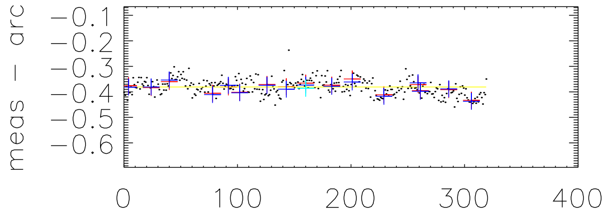

6300.3040
6363.7760
6553.6100
6923.2100
6949.0300
7571.7500
meas − arc
−0.8
−0.7
−0.6
−0.5
−0.4
−0.3
−0.2
0
100
200
300
400

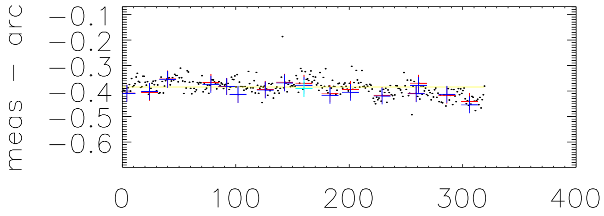

7794.1200

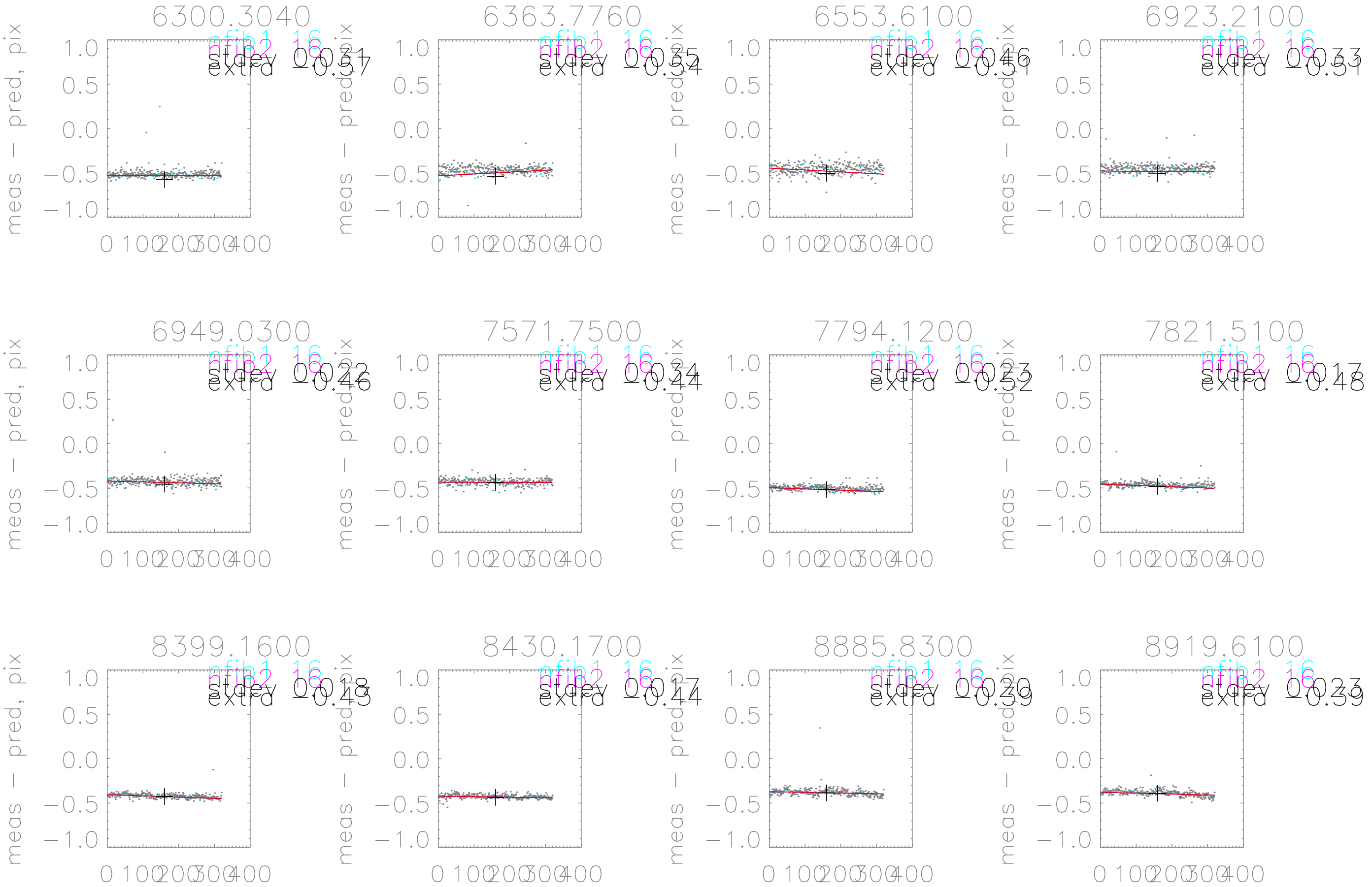

7821.5100

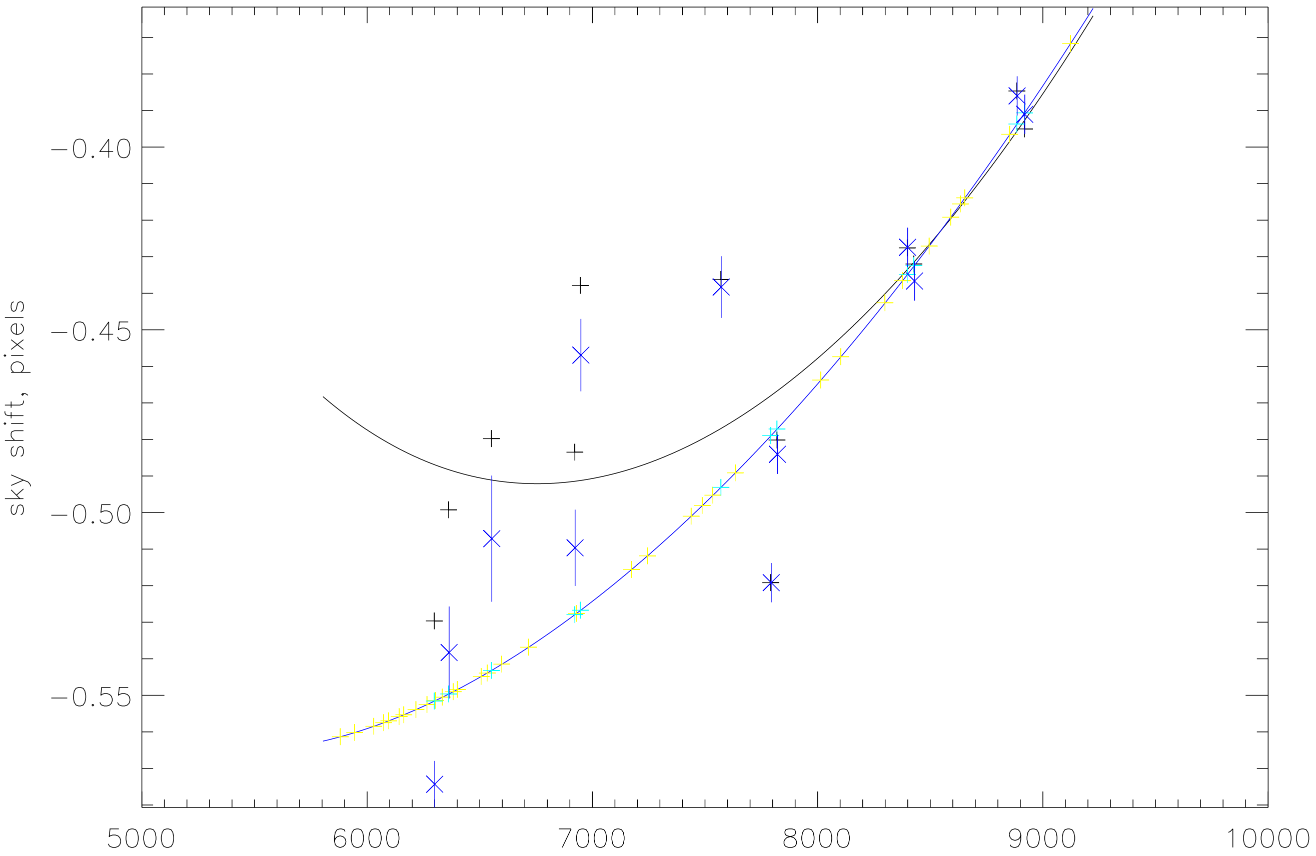

8399.1600

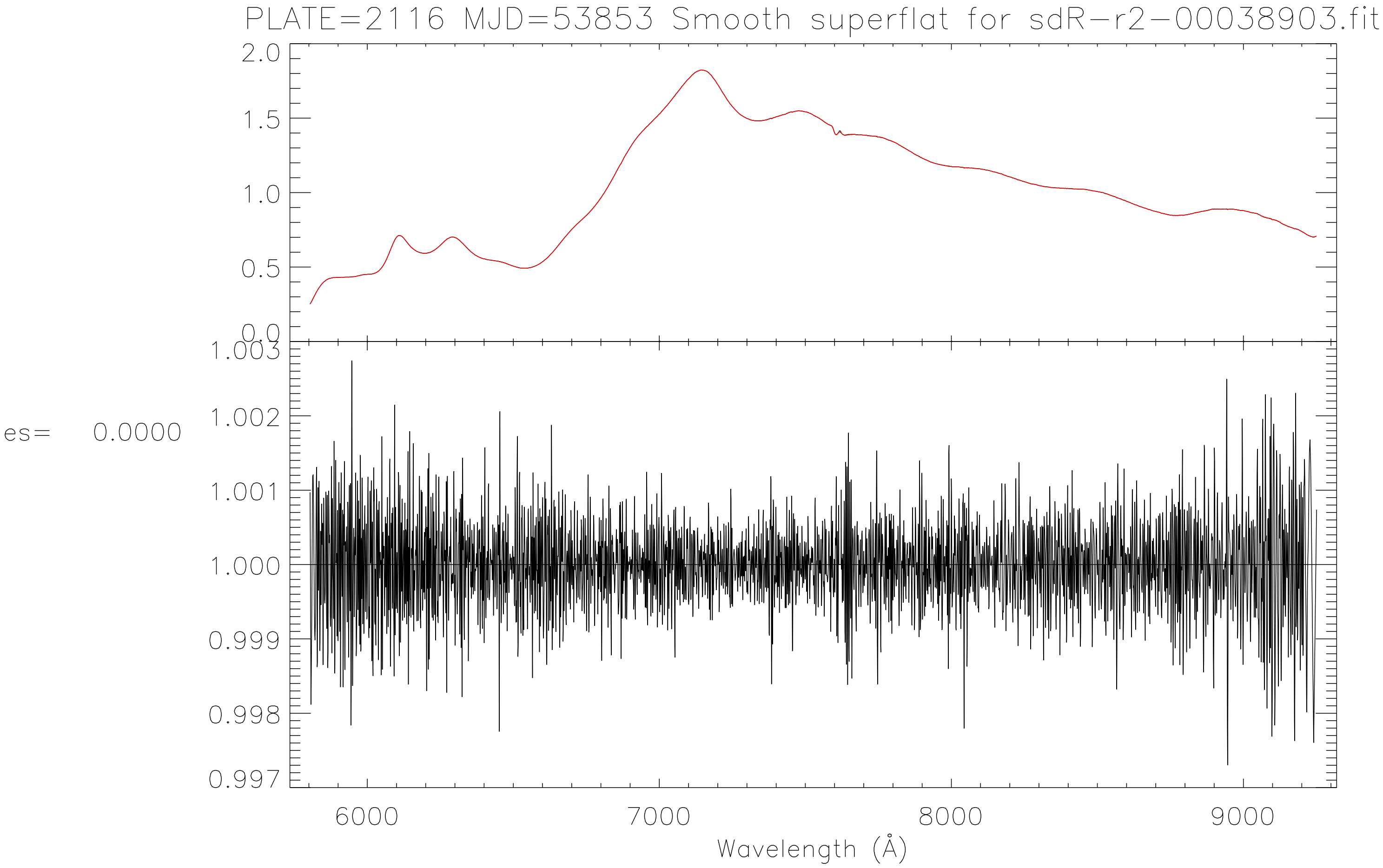

8430.1700


8885.8300

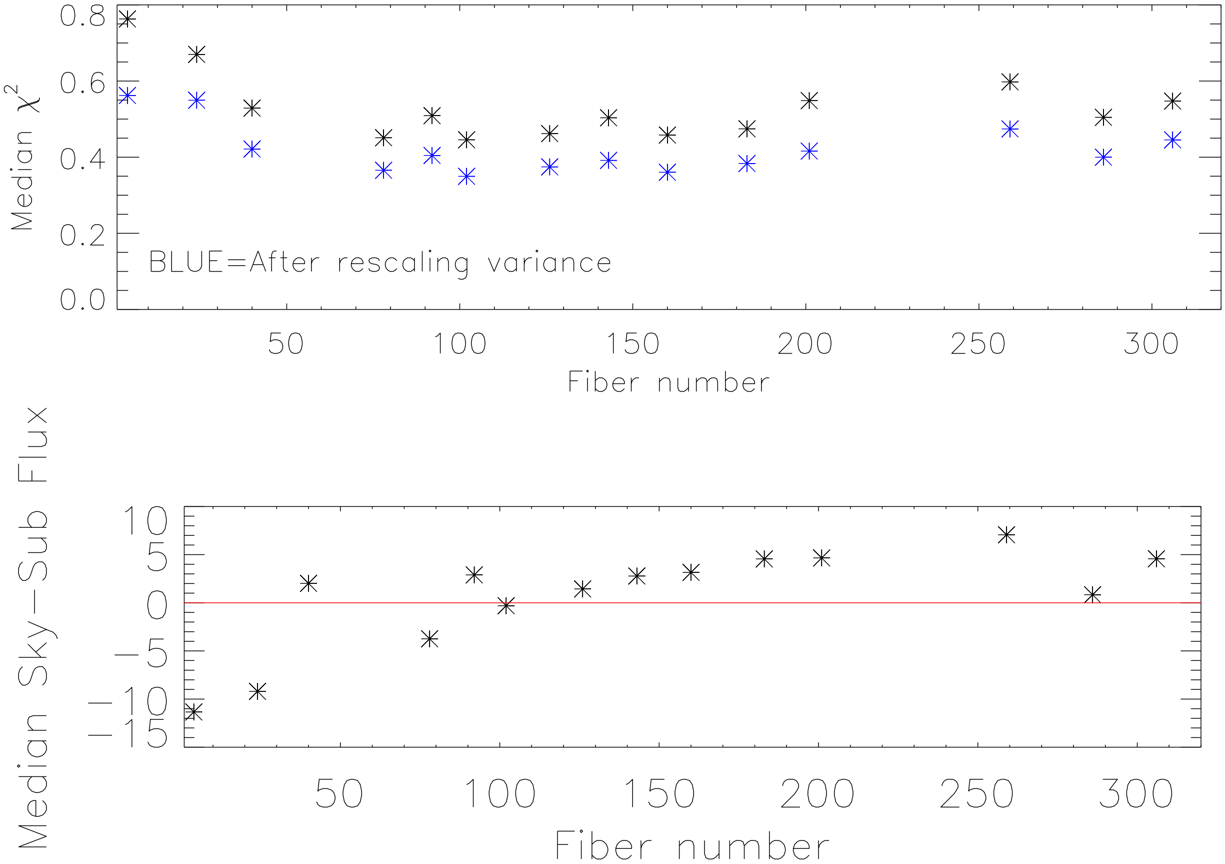

8919.6100


6300.3040
nfib1 16
nfib2 16
stdev 0.031
extrd −0.57
6363.7760
nfib1 16
nfib2 16
stdev 0.035
extrd −0.54
6553.6100
nfib1 16
nfib2 16
stdev 0.046
extrd −0.51
6923.2100
nfib1 16
nfib2 16
stdev 0.033
extrd −0.51
6949.0300
nfib1 16
nfib2 16
stdev 0.022
extrd −0.46
7571.7500
nfib1 16
nfib2 16
stdev 0.034
extrd −0.44
7794.1200
nfib1 16
nfib2 16
stdev 0.023
extrd −0.52
7821.5100
nfib1 16
nfib2 16
stdev 0.017
extrd −0.48
8399.1600
nfib1 16
nfib2 16
stdev 0.018
extrd −0.43
8430.1700
nfib1 16
nfib2 16
stdev 0.017
extrd −0.44
8885.8300
nfib1 16
nfib2 16
stdev 0.020
extrd −0.39
8919.6100
nfib1 16
nfib2 16
stdev 0.023
extrd −0.39
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0 100 200 300 400

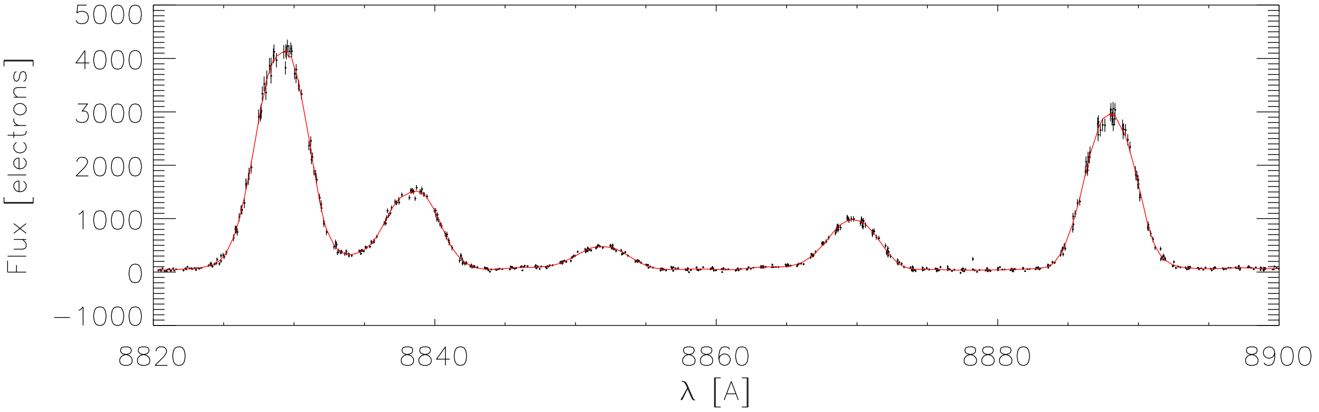

sky shift, pixels
−0.40
−0.45
−0.50
−0.55
5000
6000
7000
8000
9000
10000


PLATE=2116 MJD=53853 Smooth superflat for sdR-r2-00038903.fit
2.0
1.5
1.0
0.5
0.0
1.003
1.002
1.001
1.000
0.999
0.998
0.997
es= 0.0000
6000
7000
8000
9000
Wavelength (Å)

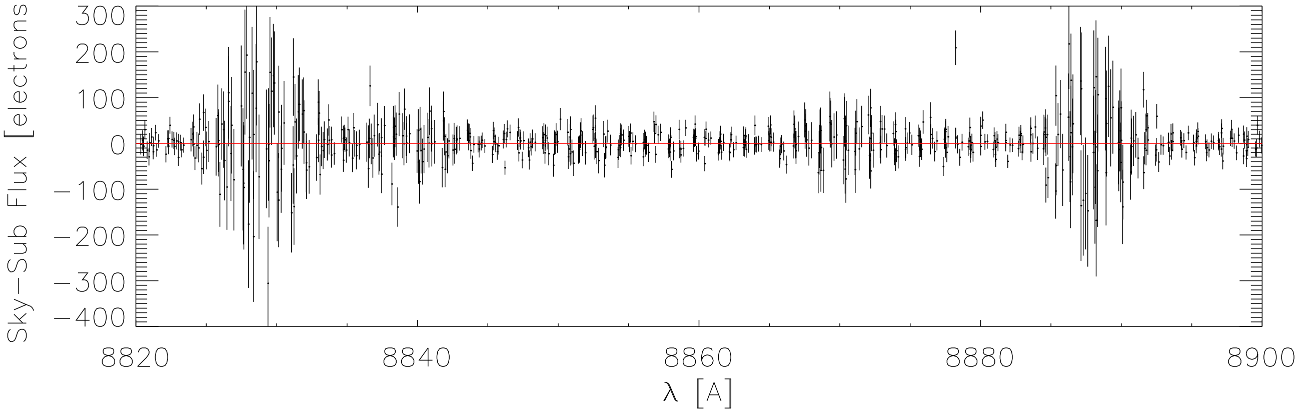
PLATE=2116 MJD=53853 sdR-r2-00038903.fit 1D Sky-subtraction Sky Fiber



PLATE=2116 MJD=53853 sdR-r2-00038903.fit 1D Sky−subtraction Sky Fibers

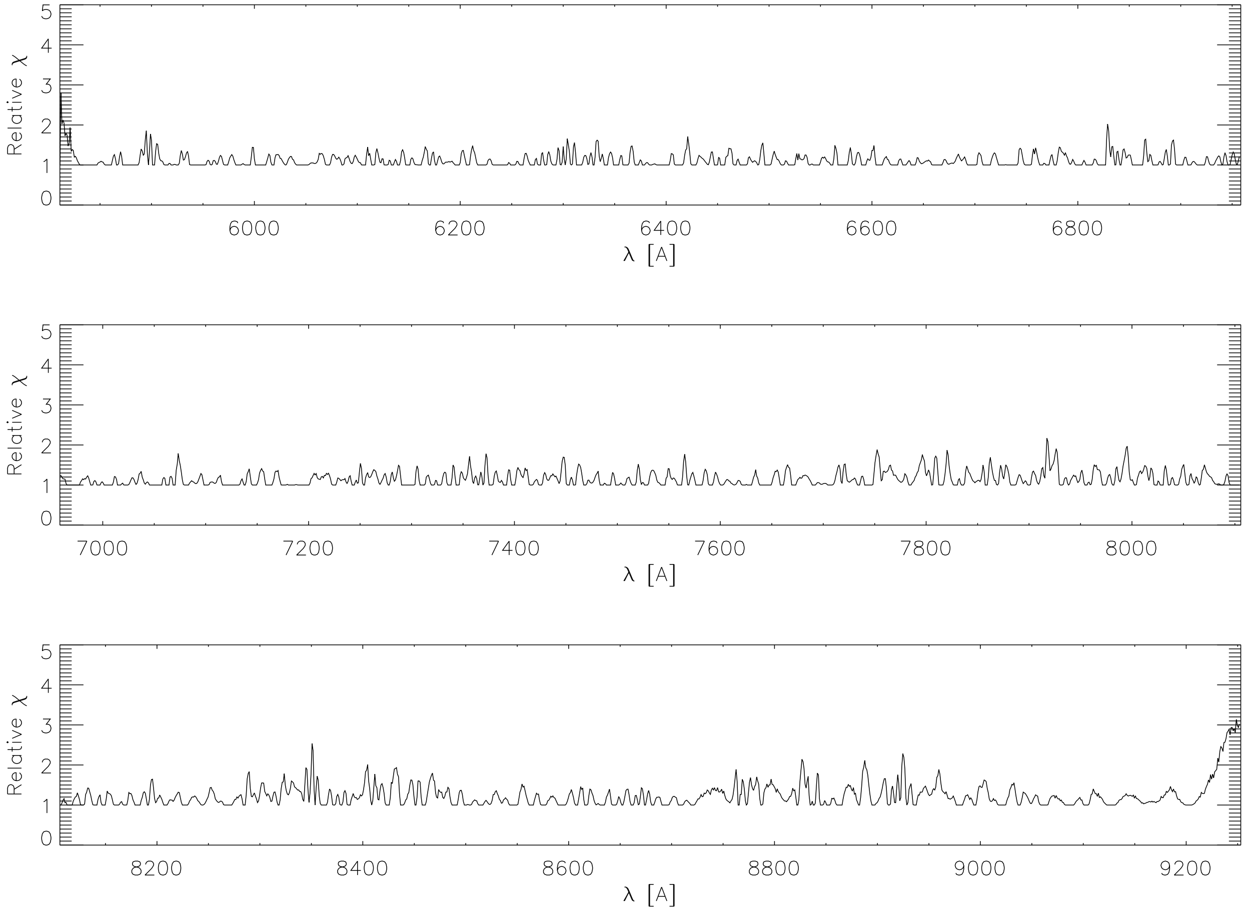


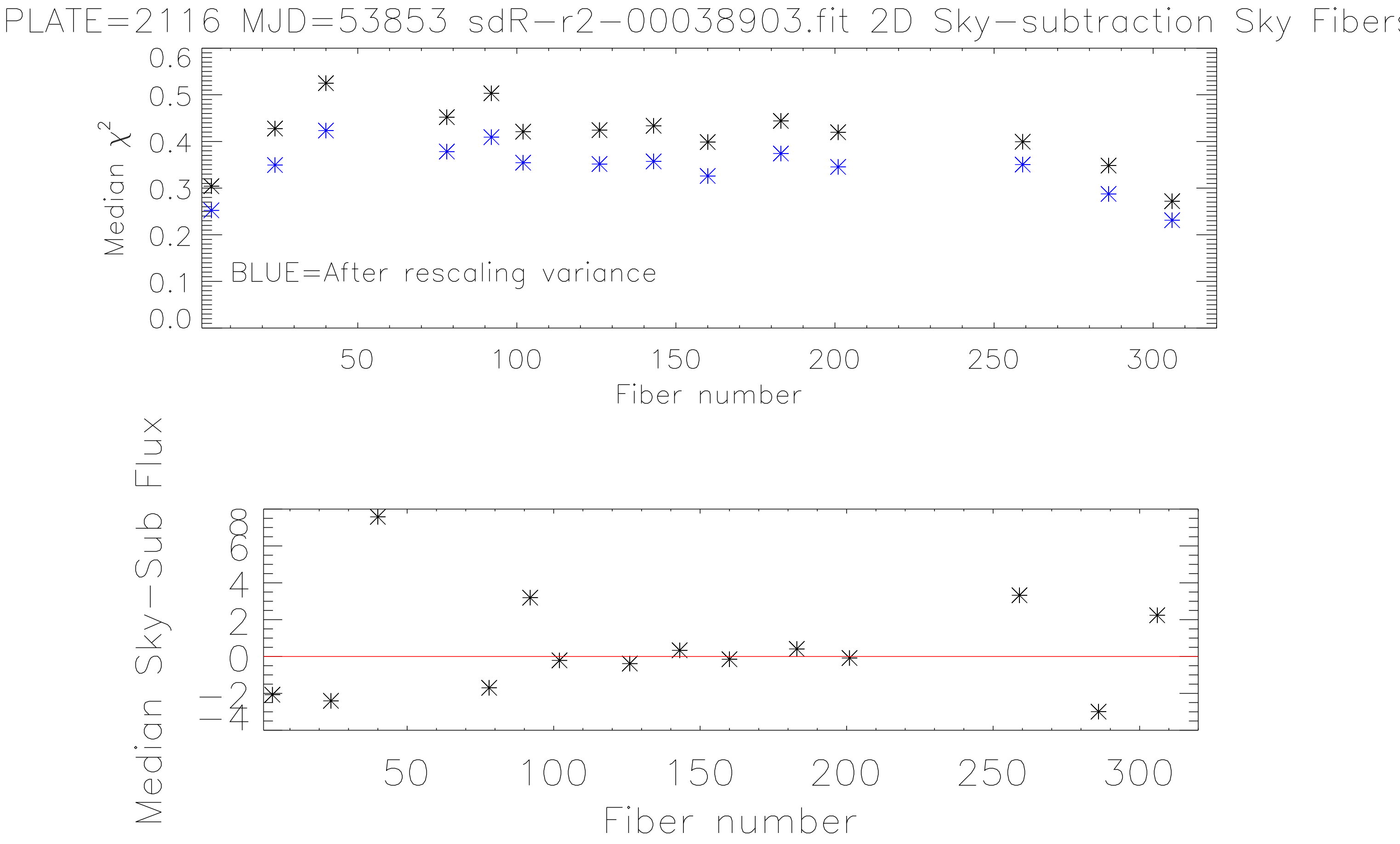
PLATE=2116 MJD=53853 sdR-r2-00038903.fit 1D Sky−subtraction Sky−subtracted Sky F

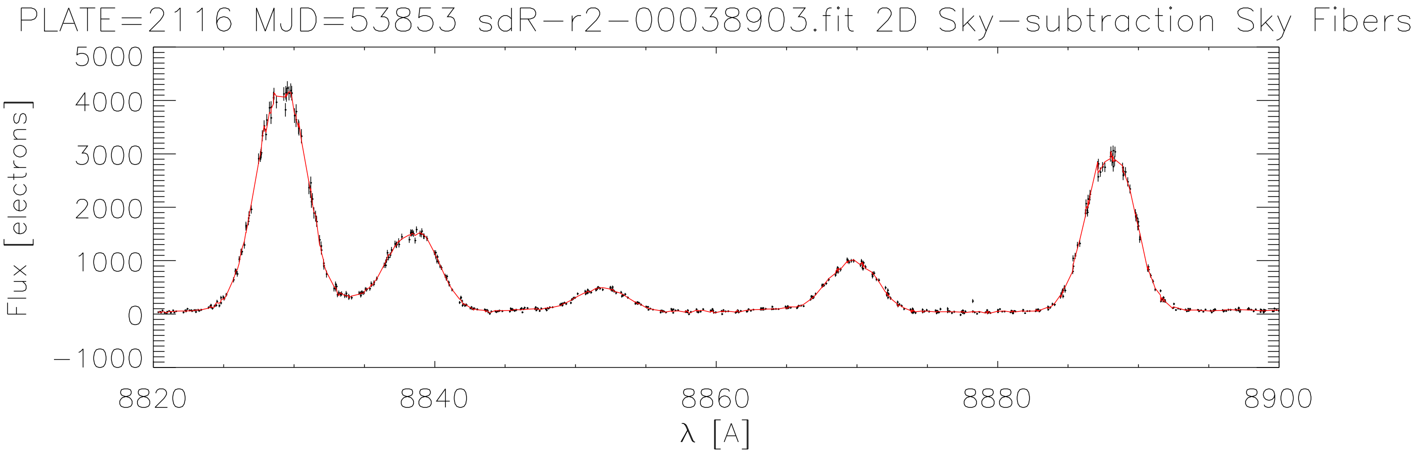


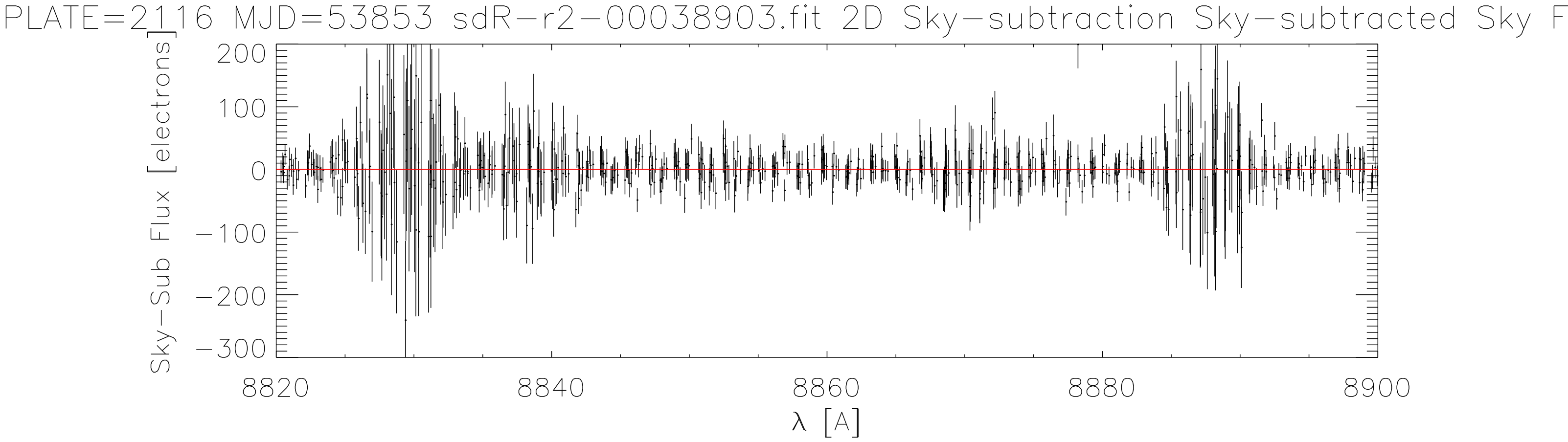
Number of sky fibers = 14

PLATE=2116 MJD=53853 sdR-r2-00038903.fit 1D Sky-subtraction Rescaled Errors



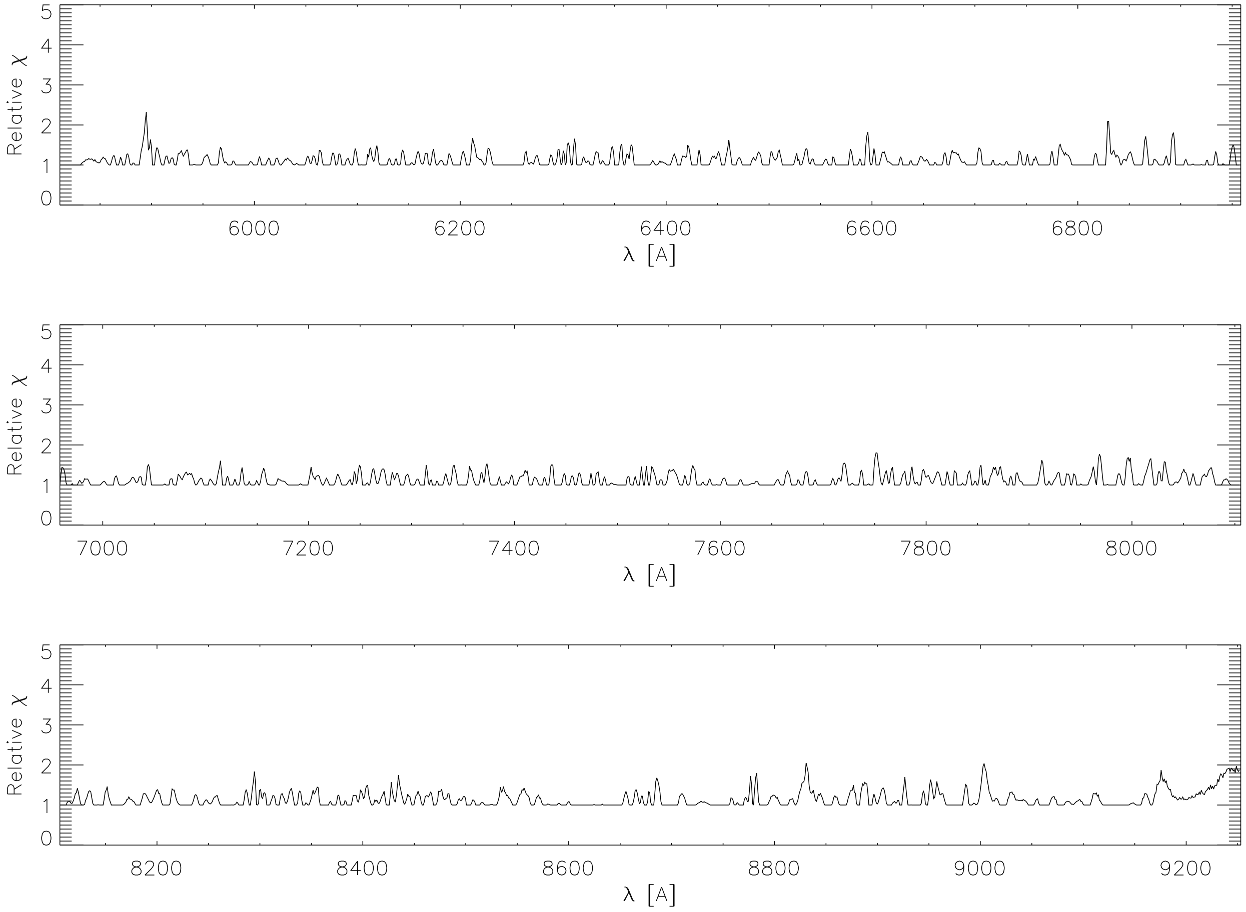

PLATE=2116 MJD=53853 sdR-r2-00038903.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

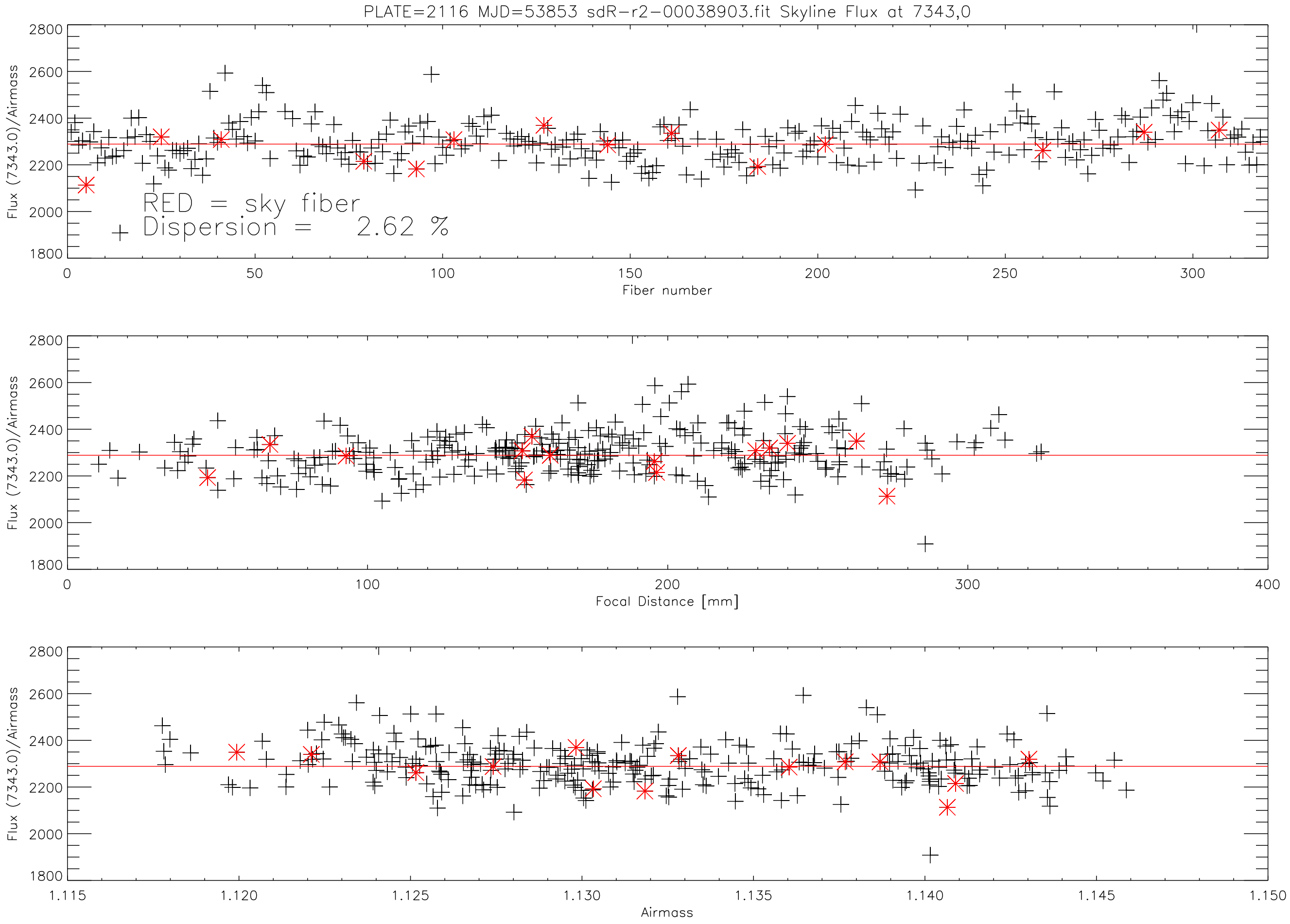

PLATE=2116 MJD=53853 sdR-r2-00038903.fit 2D Sky-subtraction Sky Fibers

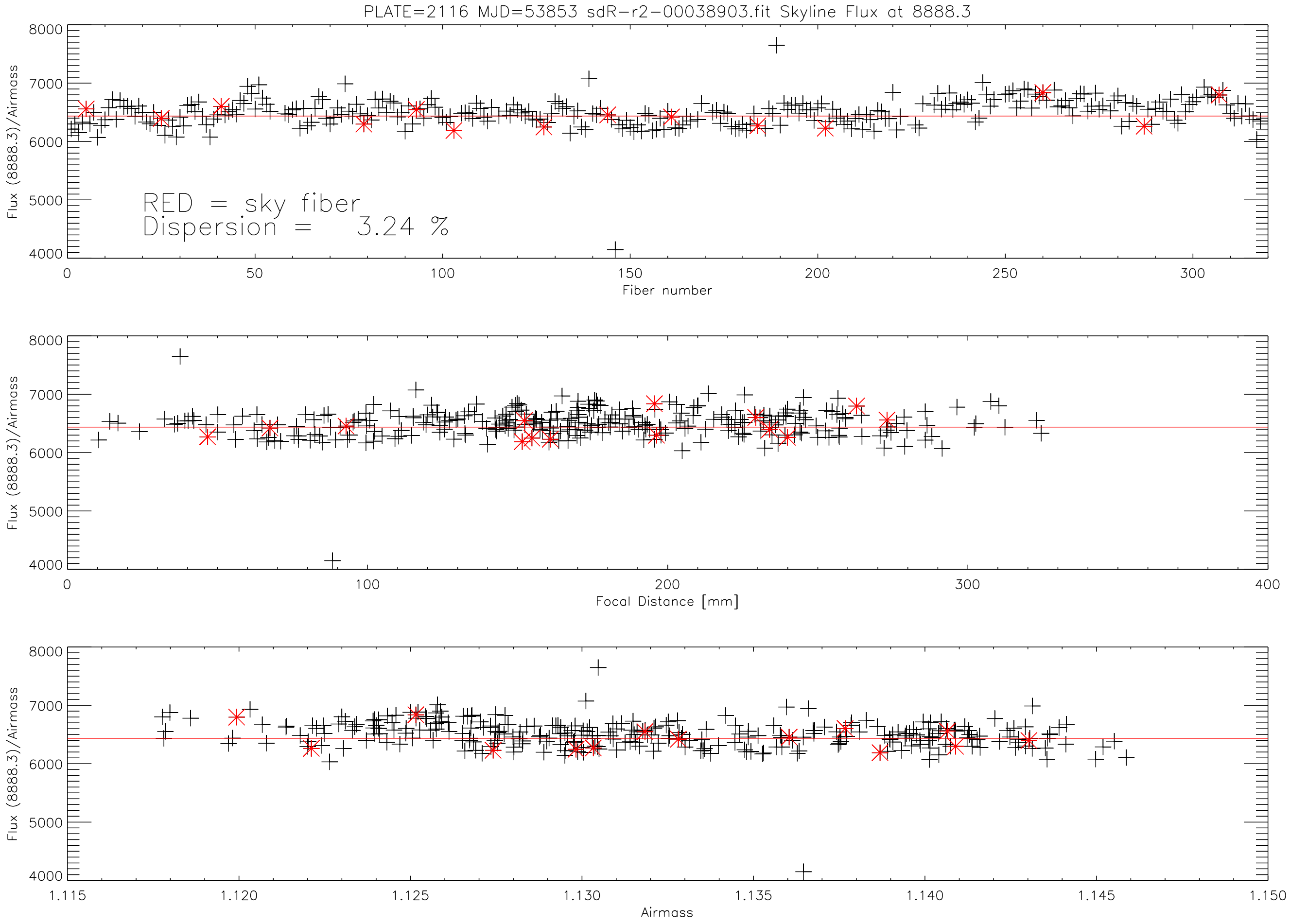

PLATE=2116 MJD=53853 sdR-r2-00038903.fit 2D Sky-subtraction Sky-subtracted Sky F

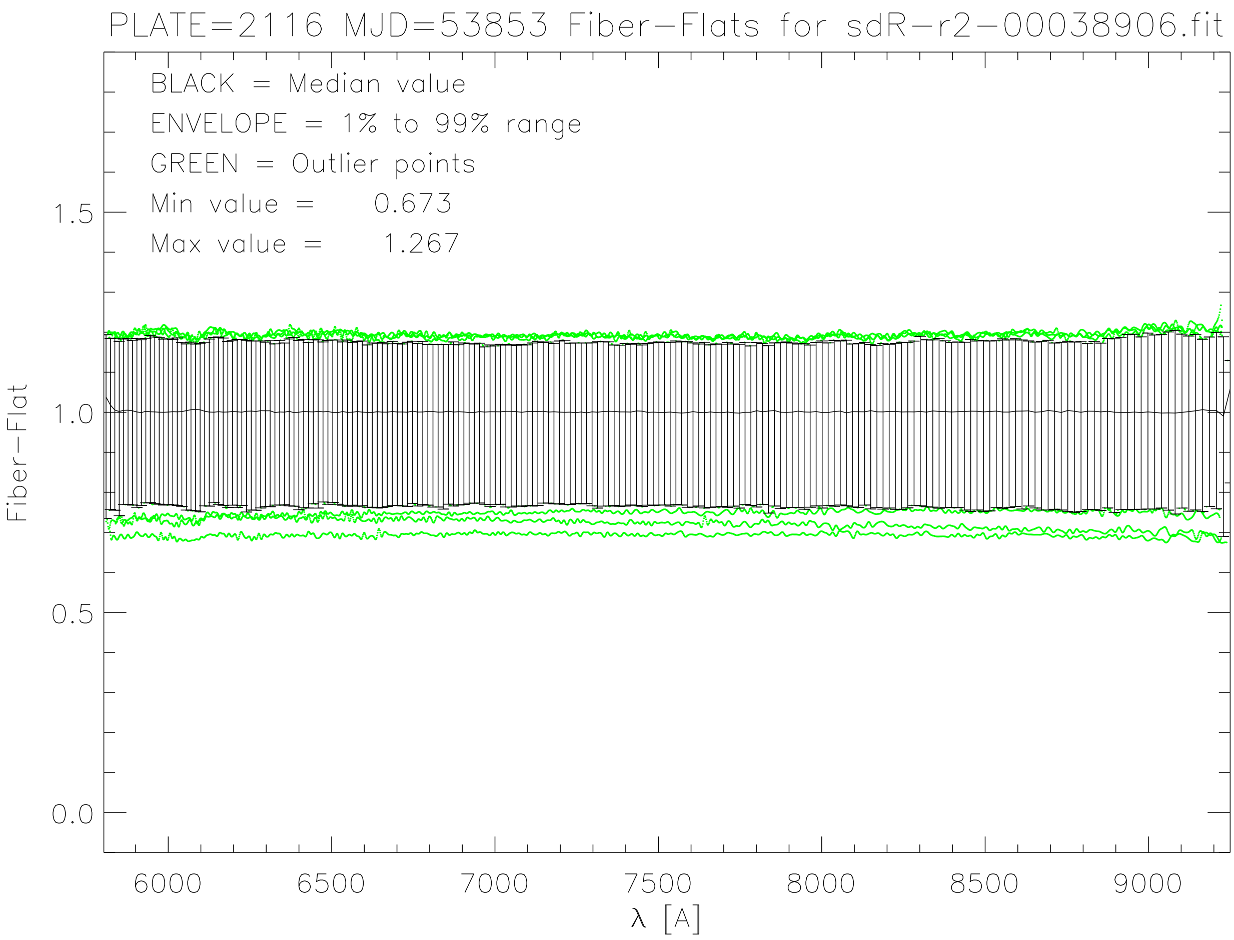
Number of sky fibers = 14

PLATE=2116 MJD=53853 sdR-r2-00038903.fit 2D Sky-subtraction Rescaled Errors




PLATE=2116 MJD=53853 sdR-r2-00038903.fit Skyline Flux at 7343,0
Flux (7343.0)/Airmass
1800
2000
2200
2400
2600
2800
RED = sky fiber
Dispersion = 2.62 %
0
50
100
150
200
250
300
Fiber number
Flux (7343.0)/Airmass
1800
2000
2200
2400
2600
2800
0
100
200
300
400
Focal Distance [mm]
Flux (7343.0)/Airmass
1800
2000
2200
2400
2600
2800
1.115
1.120
1.125
1.130
1.135
1.140
1.145
1.150
Airmass


PLATE=2116 MJD=53853 sdR-r2-00038903.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
8000
7000
6000
5000
4000
RED = sky fiber
Dispersion = 3.24 %
0
50
100
150
200
250
300
Fiber number
Flux (8888.3)/Airmass
8000
7000
6000
5000
4000
0
100
200
300
400
Focal Distance [mm]
Flux (8888.3)/Airmass
8000
7000
6000
5000
4000
1.115
1.120
1.125
1.130
1.135
1.140
1.145
1.150
Airmass



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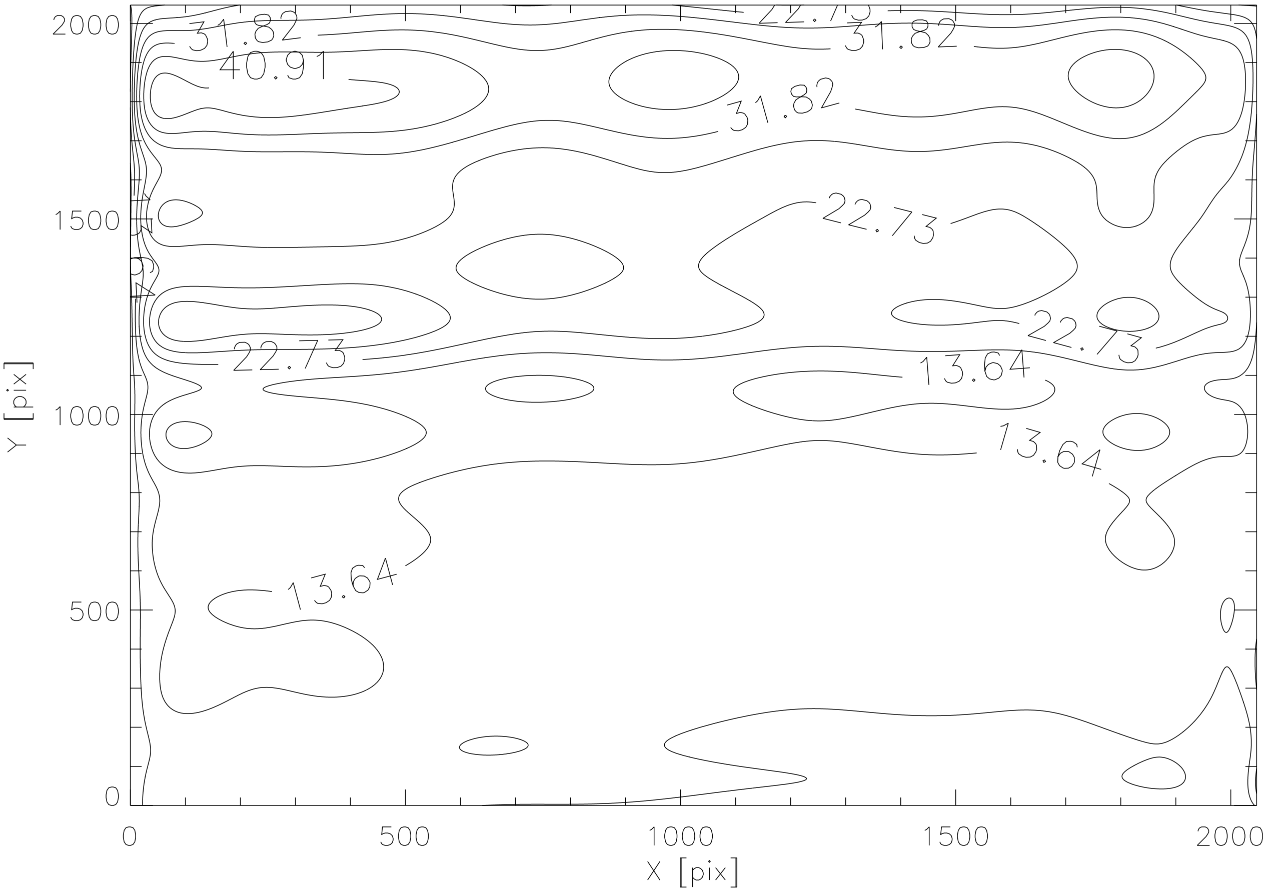
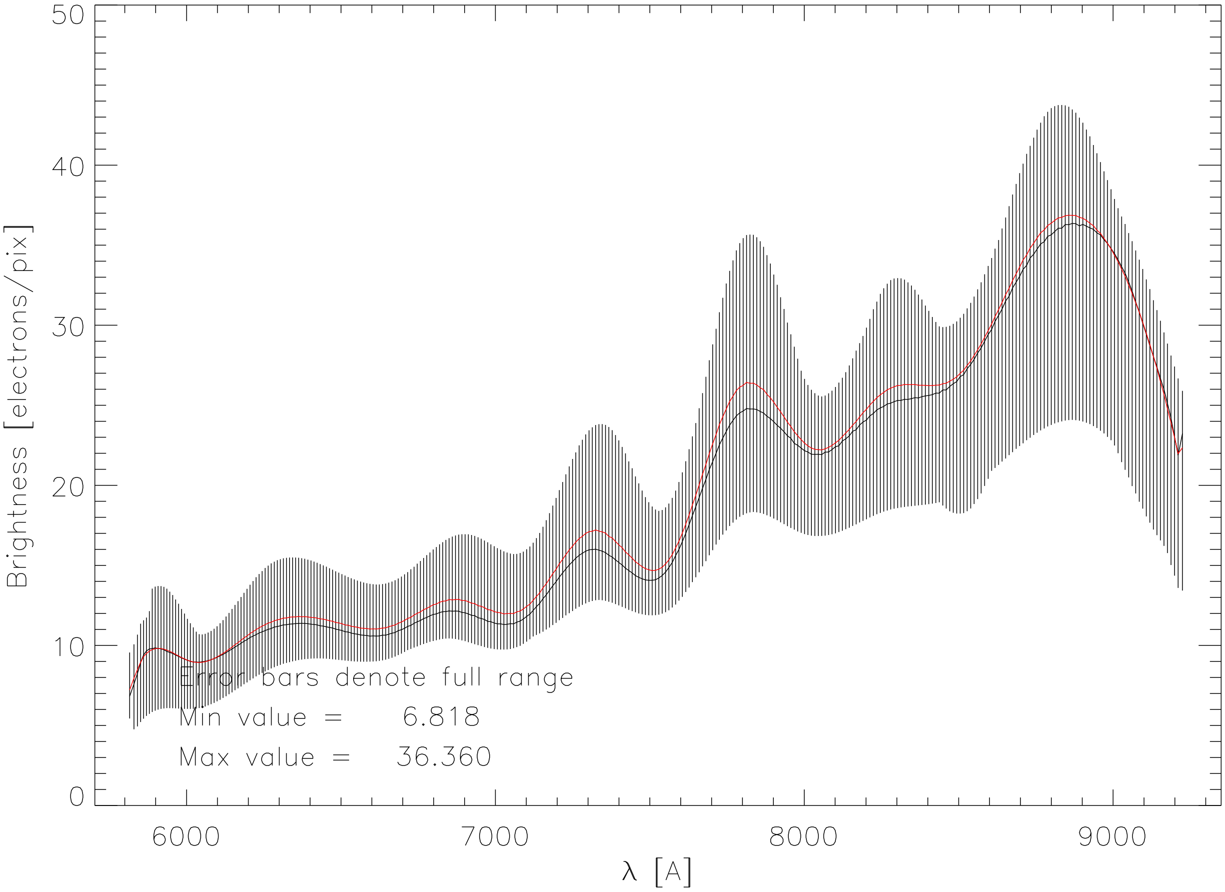
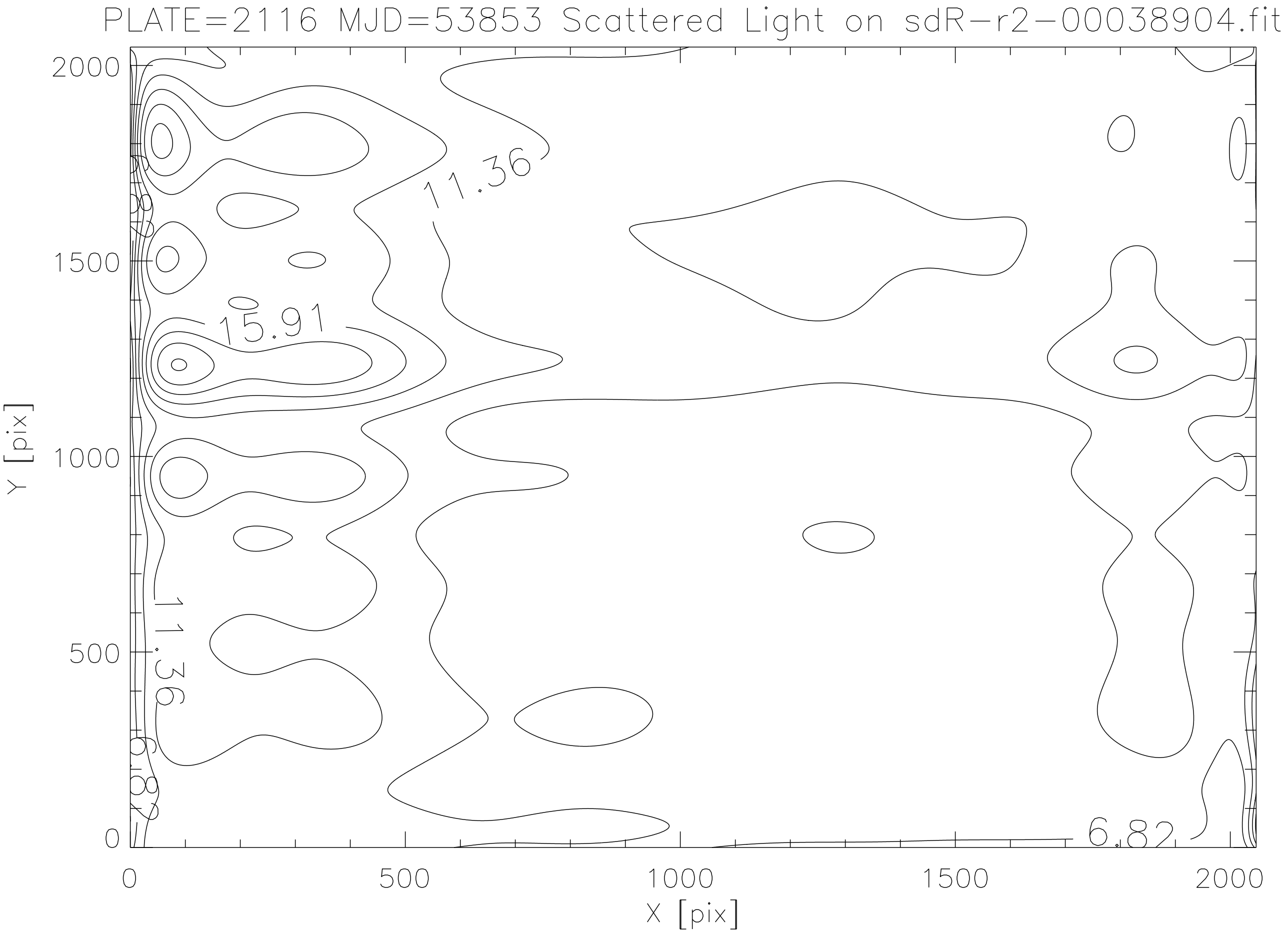
PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-r2-00038904.fi



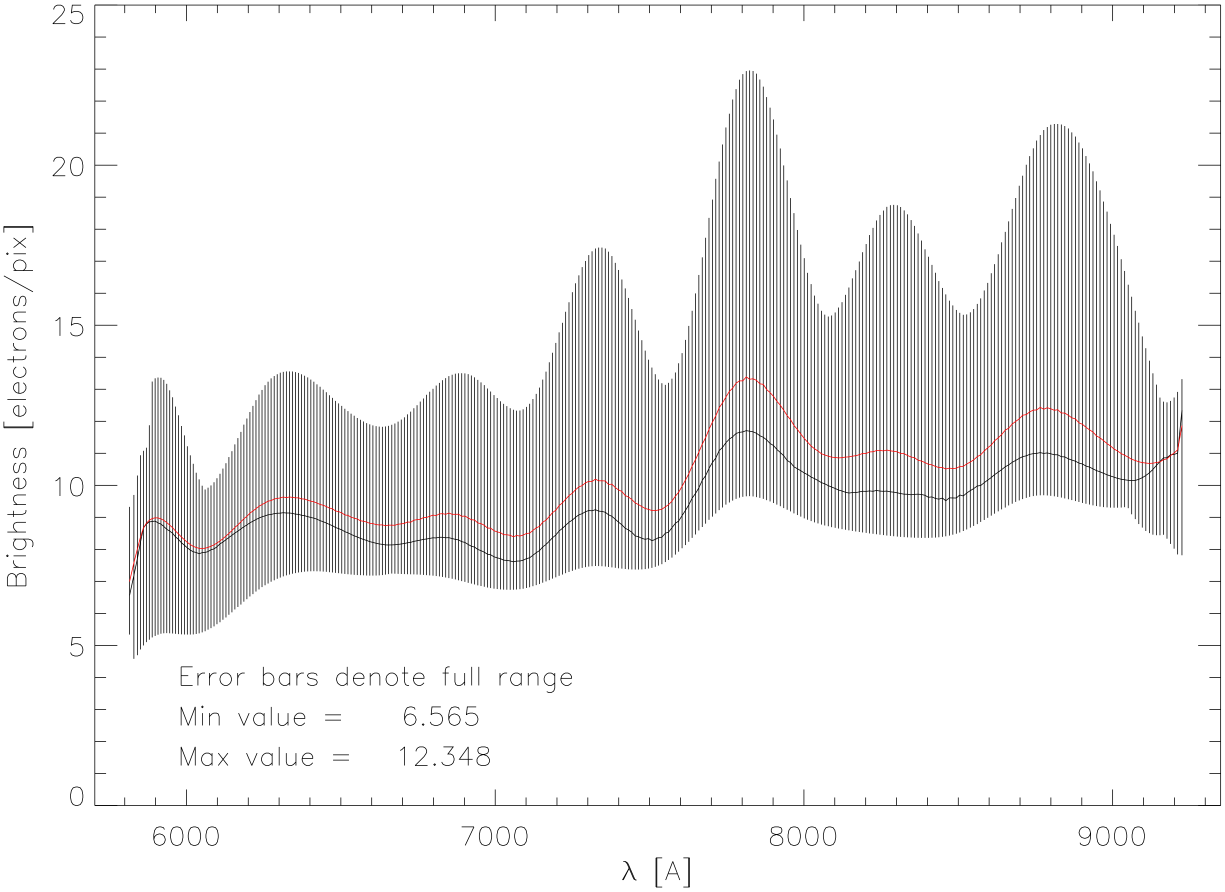
PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-r2-00038904.fi



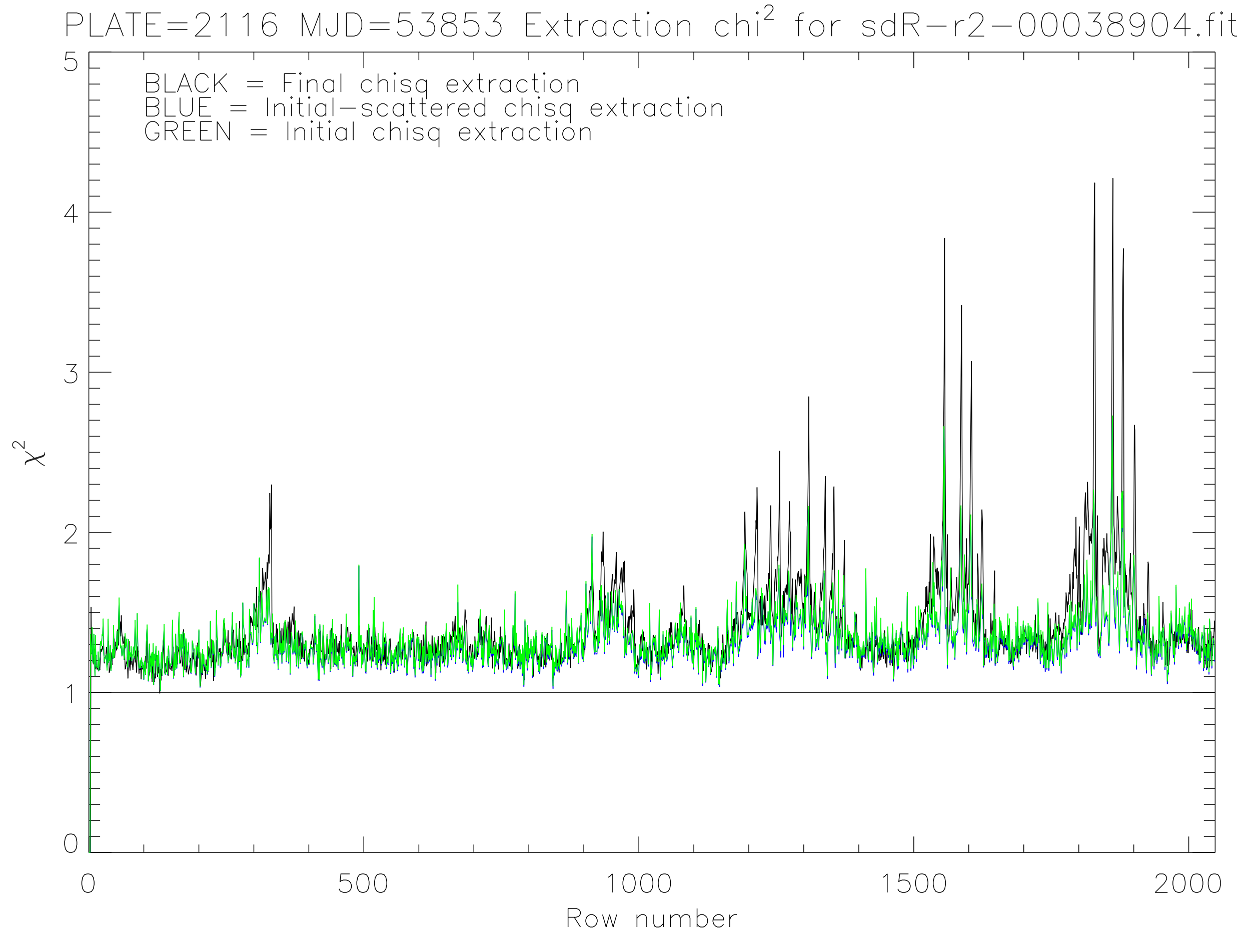
Sun Feb 17 11:39:38 2008

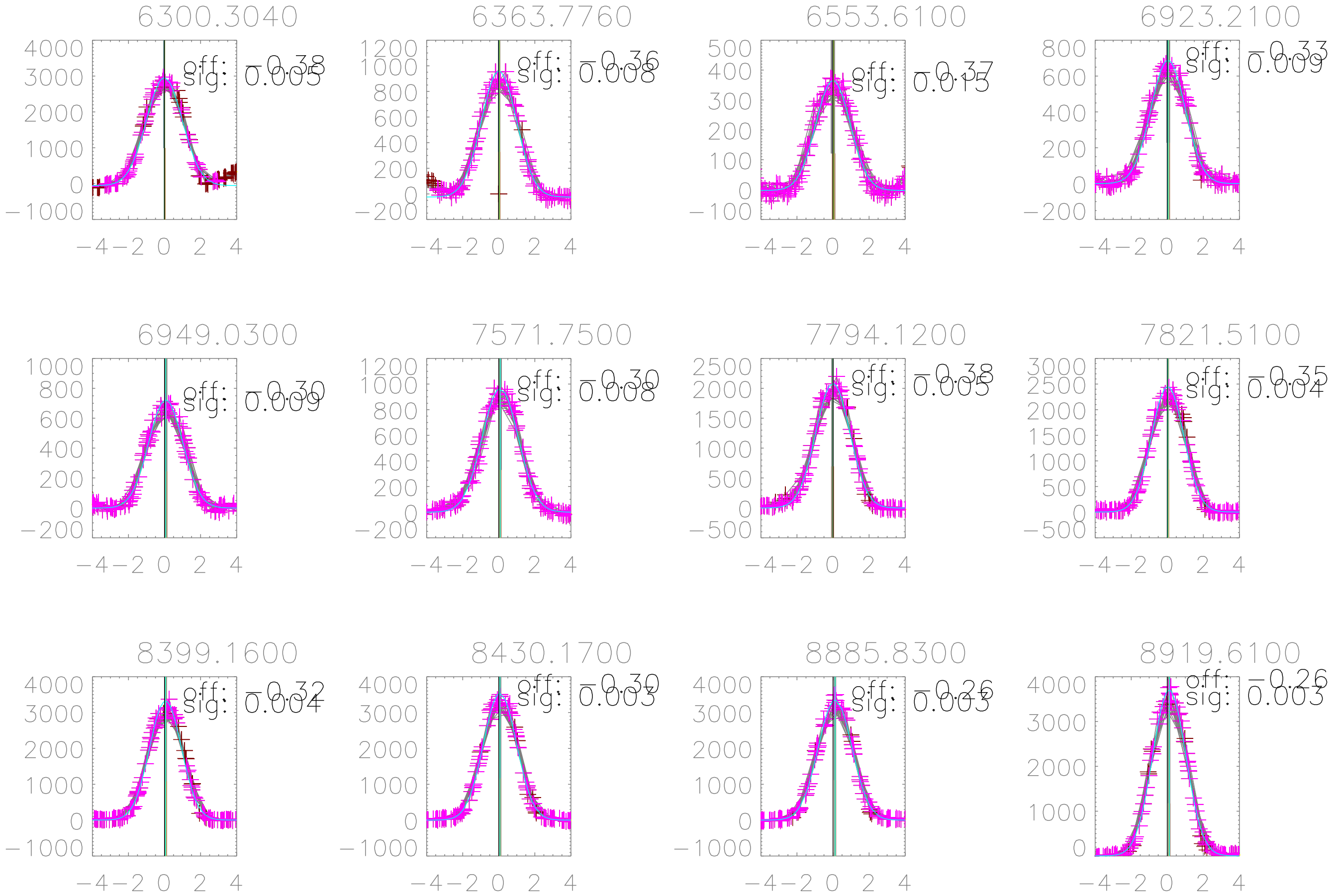

PLATE=2116 MJD=53853 Scattered Light on sdR-r2-00038904.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
11.36
15.91
11.36
6.82
6.82

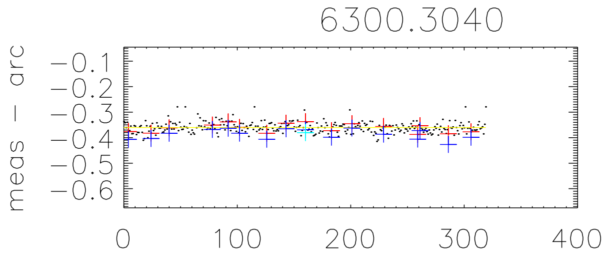
PLATE=2116 MJD=53853 Scattered Light on sdR-r2-00038904.fit

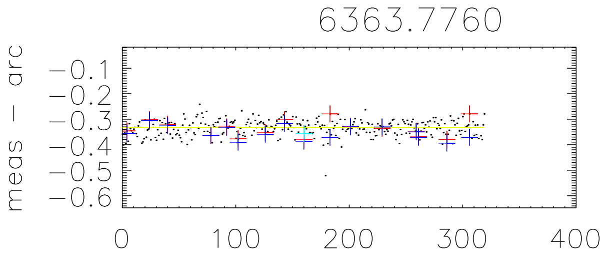


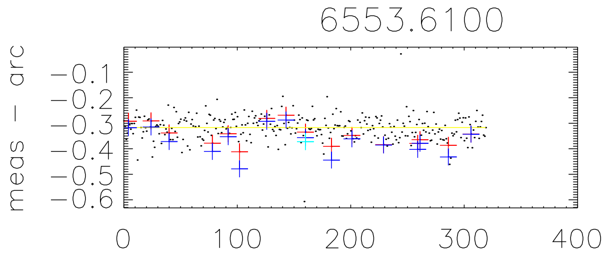
Sun Feb 17 11:42:39 2008

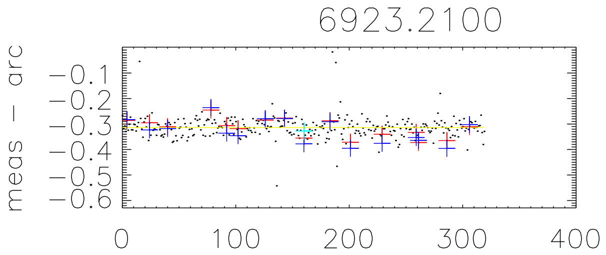

PLATE=2116 MJD=53853 Extraction chi^2 for sdR-r2-00038904.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0
1
2
3
4
5
0
500
1000
1500
2000
Row number

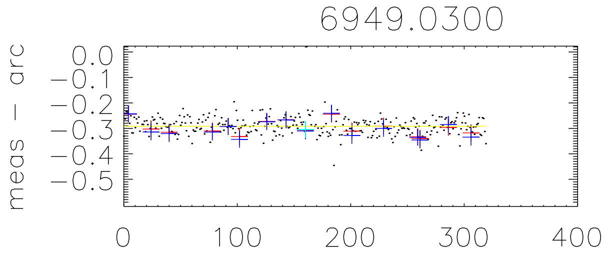

6300.3040
off: −0.38
sig: 0.005
6363.7760
off: −0.36
sig: 0.008
6553.6100
off: −0.37
sig: 0.015
6923.2100
off: −0.33
sig: 0.009
6949.0300
off: −0.30
sig: 0.009
7571.7500
off: −0.30
sig: 0.008
7794.1200
off: −0.38
sig: 0.005
7821.5100
off: −0.35
sig: 0.004
8399.1600
off: −0.32
sig: 0.004
8430.1700
off: −0.30
sig: 0.003
8885.8300
off: −0.26
sig: 0.003
8919.6100
off: −0.26
sig: 0.003
−4 −2 0 2 4

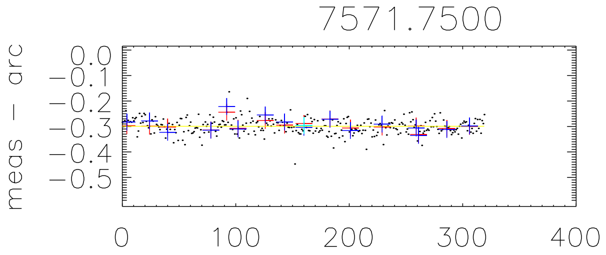

6300.3040
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

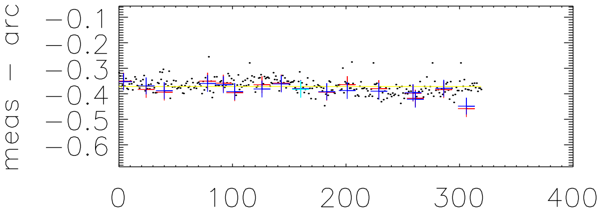

6363.7760
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

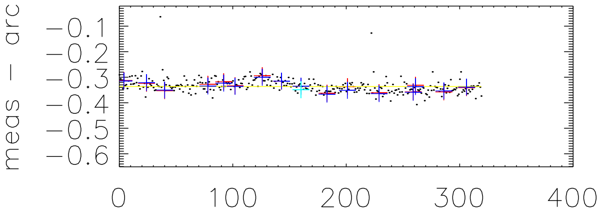

6553.6100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

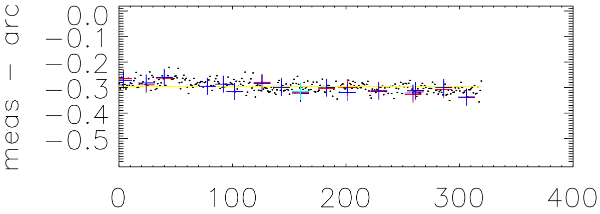

6923.2100
meas − arc
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
0
100
200
300
400

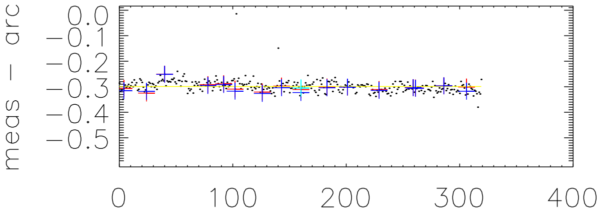

6949.0300
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

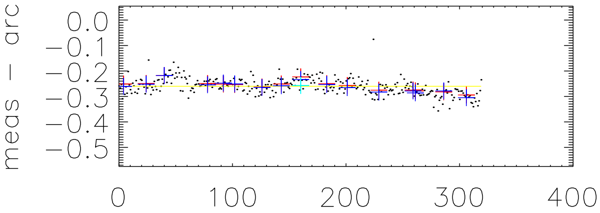

7571.7500
meas − arc
0.0
−0.1
−0.2
−0.3
−0.4
−0.5
0
100
200
300
400

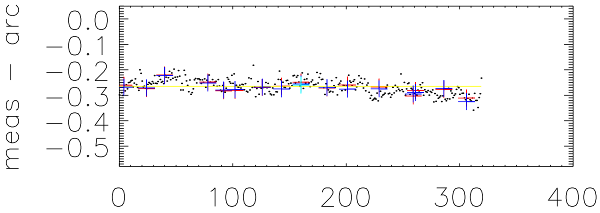

7794.1200

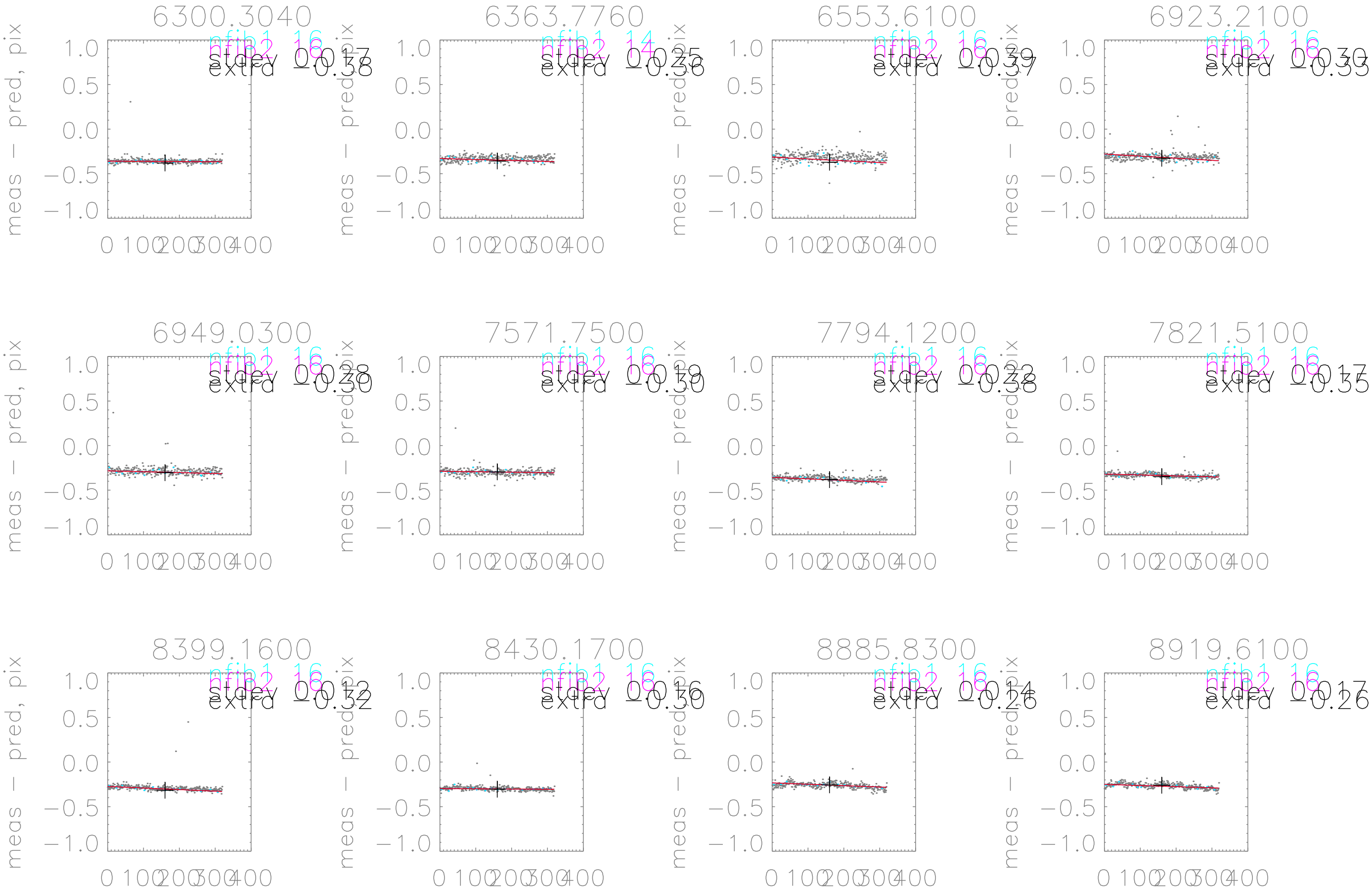

7821.5100

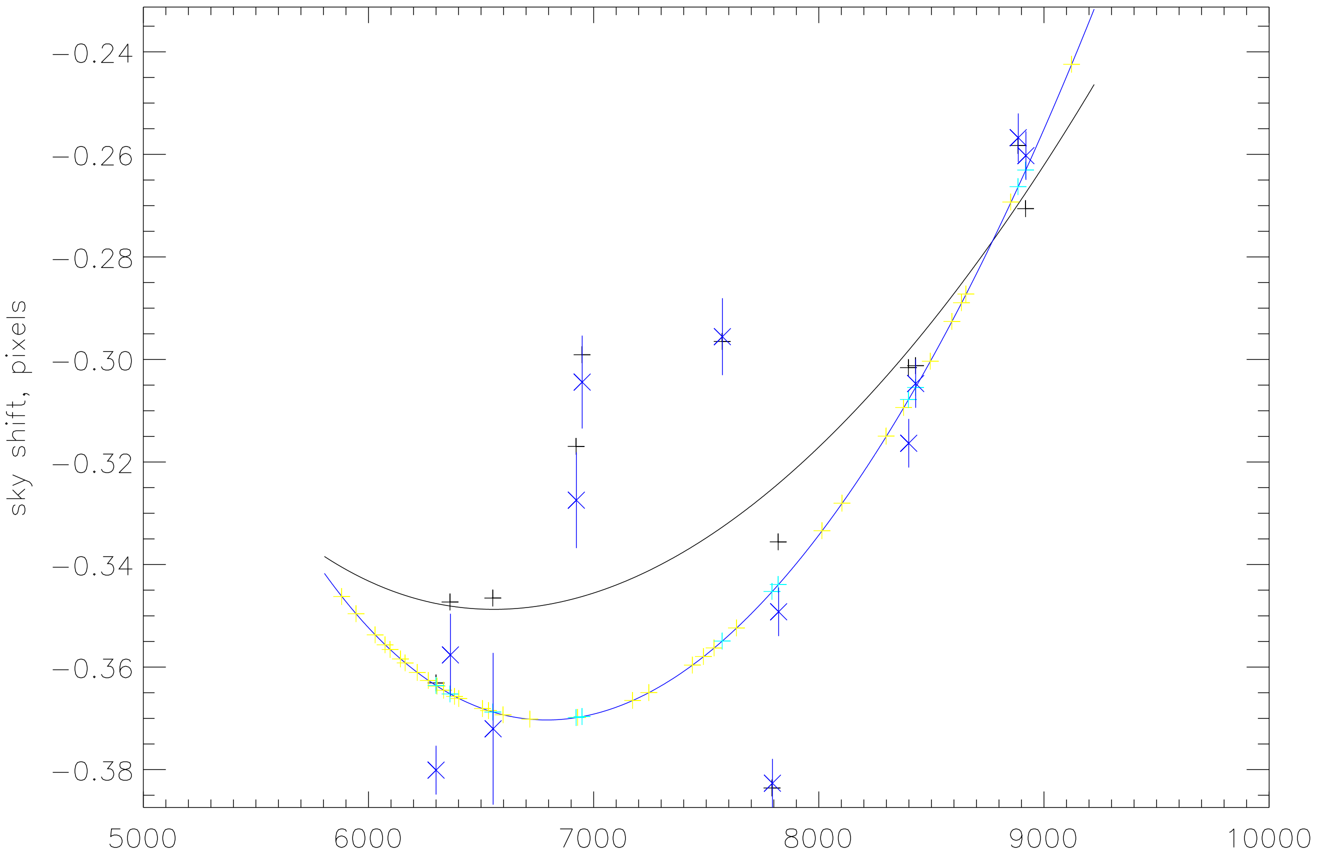

8399.1600

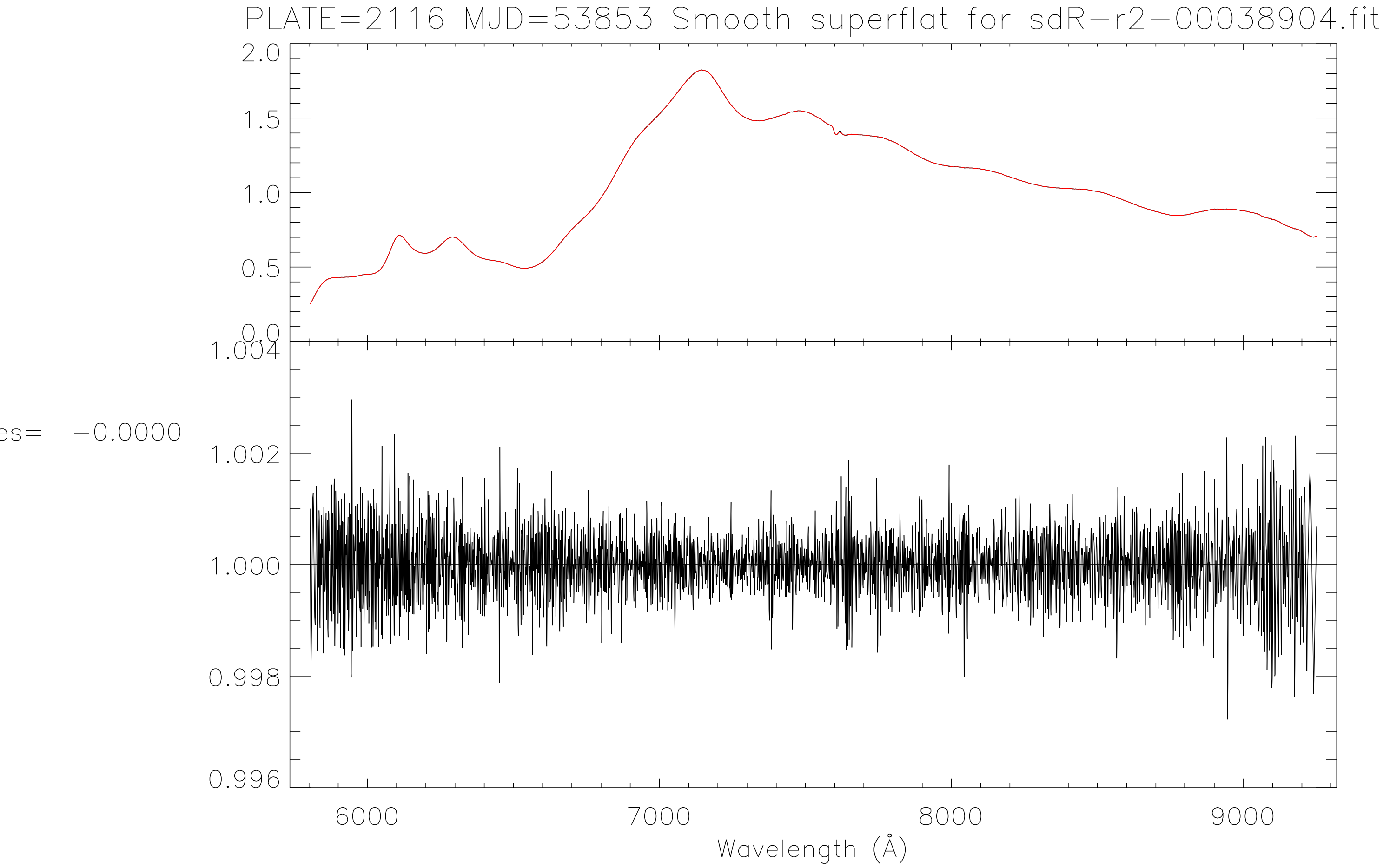

8430.1700


8885.8300

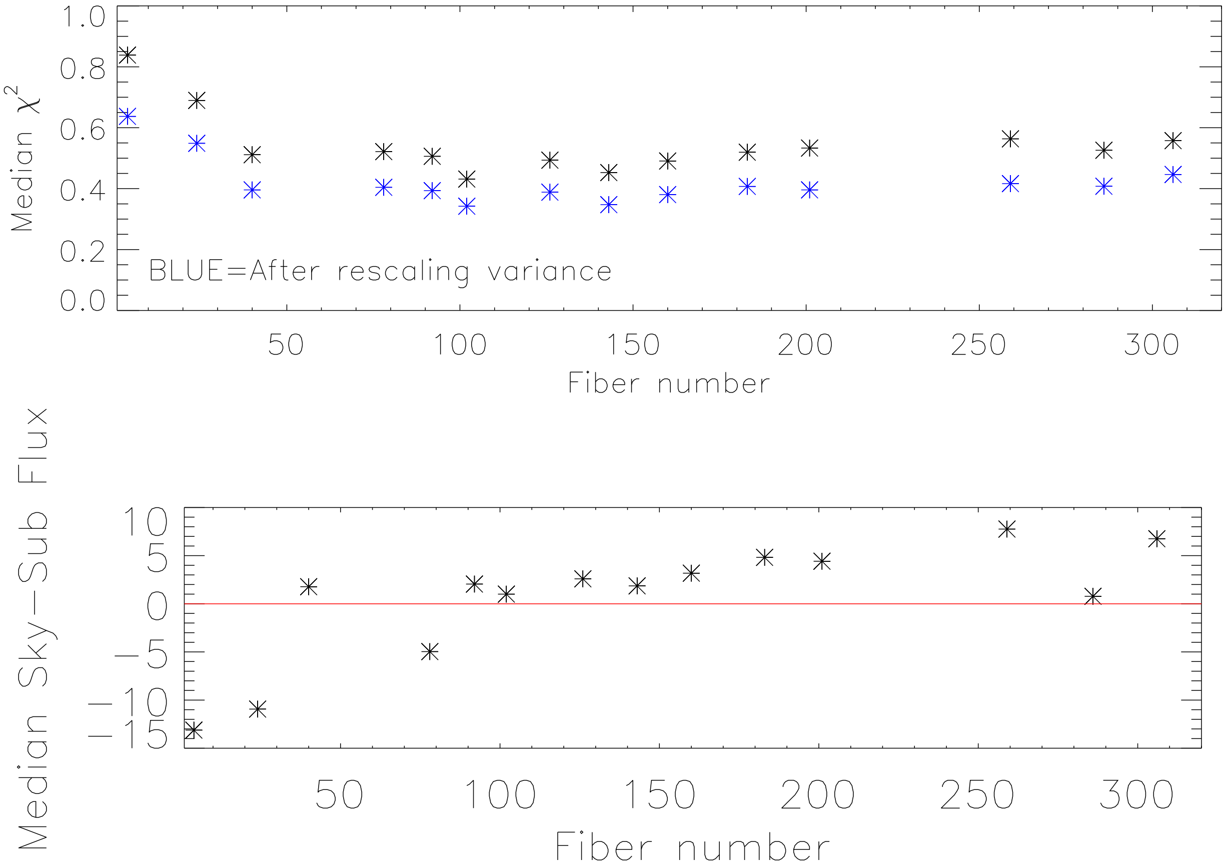

8919.6100

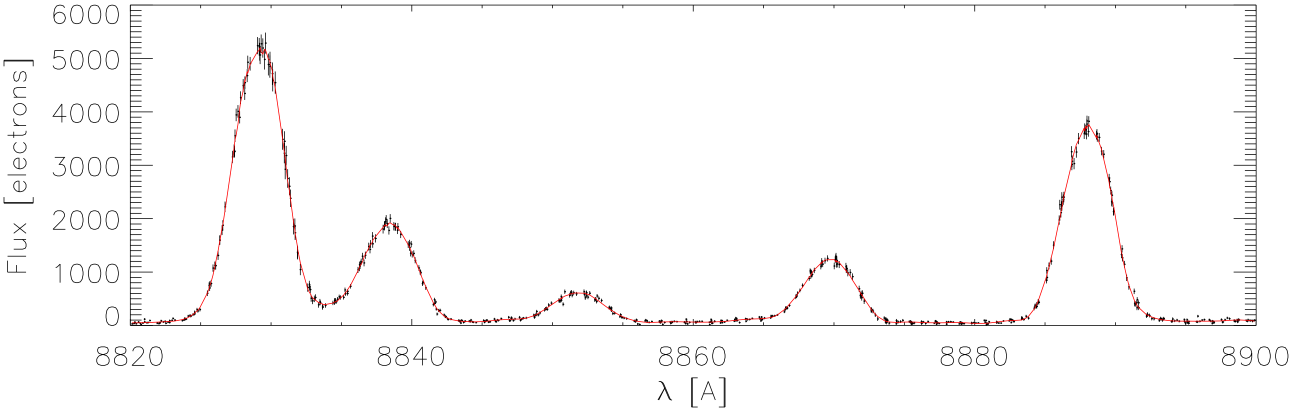

6300.3040
nfib1 16
nfib2 16
stdev 0.017
extrd −0.38
6363.7760
nfib1 14
nfib2 14
stdev 0.025
extrd −0.36
6553.6100
nfib1 16
nfib2 16
stdev 0.039
extrd −0.37
6923.2100
nfib1 16
nfib2 16
stdev 0.030
extrd −0.33
6949.0300
nfib1 16
nfib2 16
stdev 0.028
extrd −0.30
7571.7500
nfib1 16
nfib2 16
stdev 0.019
extrd −0.30
7794.1200
nfib1 16
nfib2 16
stdev 0.022
extrd −0.38
7821.5100
nfib1 16
nfib2 16
stdev 0.017
extrd −0.35
8399.1600
nfib1 16
nfib2 16
stdev 0.012
extrd −0.32
8430.1700
nfib1 16
nfib2 16
stdev 0.016
extrd −0.30
8885.8300
nfib1 16
nfib2 16
stdev 0.014
extrd −0.26
8919.6100
nfib1 16
nfib2 16
stdev 0.017
extrd −0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


sky shift, pixels
−0.24
−0.26
−0.28
−0.30
−0.32
−0.34
−0.36
−0.38
5000
6000
7000
8000
9000
10000

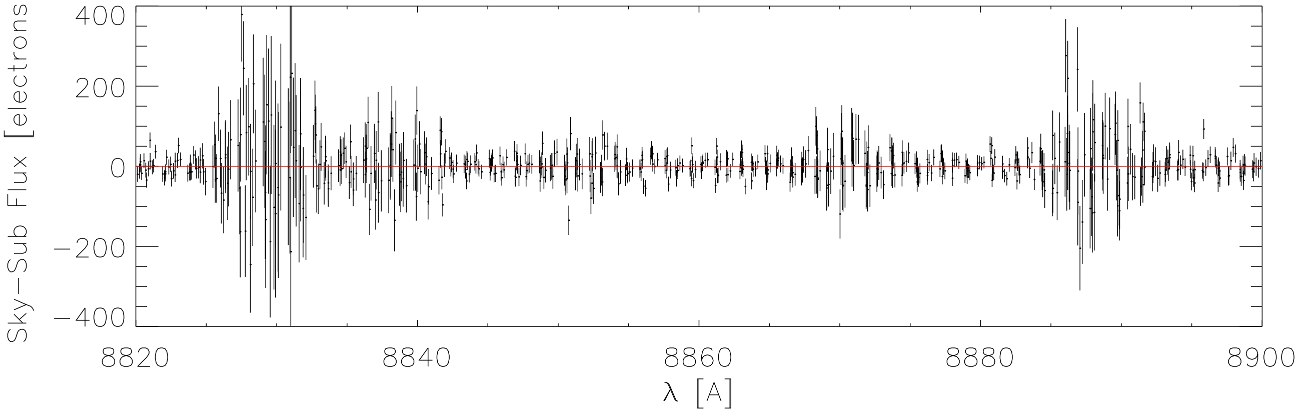

PLATE=2116 MJD=53853 Smooth superflat for sdR-r2-00038904.fit
2.0
1.5
1.0
0.5
0.0
1.004
1.002
1.000
0.998
0.996
es=   -0.0000
6000
7000
8000
9000
Wavelength (Å)

PLATE=2116 MJD=53853 sdR-r2-00038904.fit 1D Sky-subtraction Sky Fibers





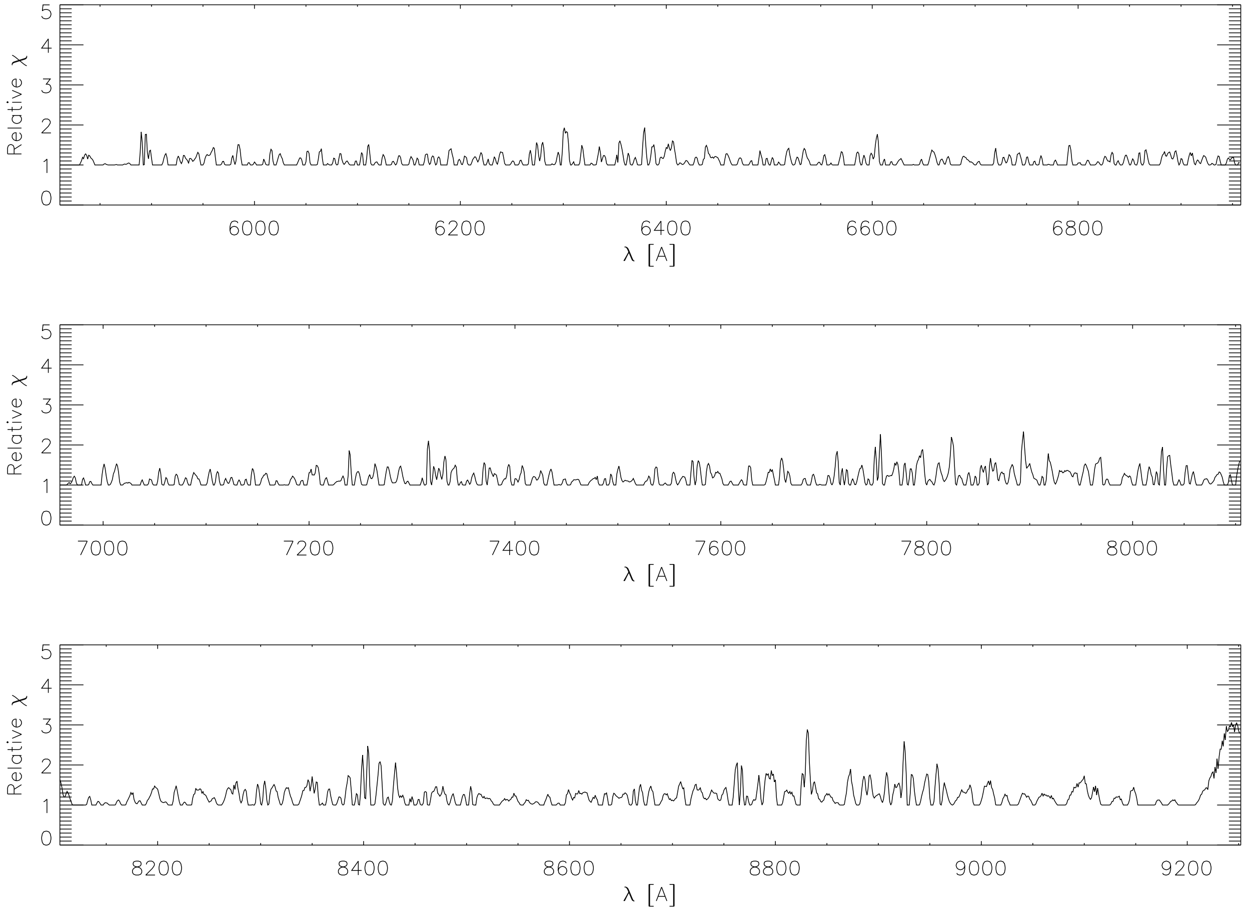
PLATE=2116 MJD=53853 sdR-r2-00038904.fit 1D Sky-subtraction Sky Fibers

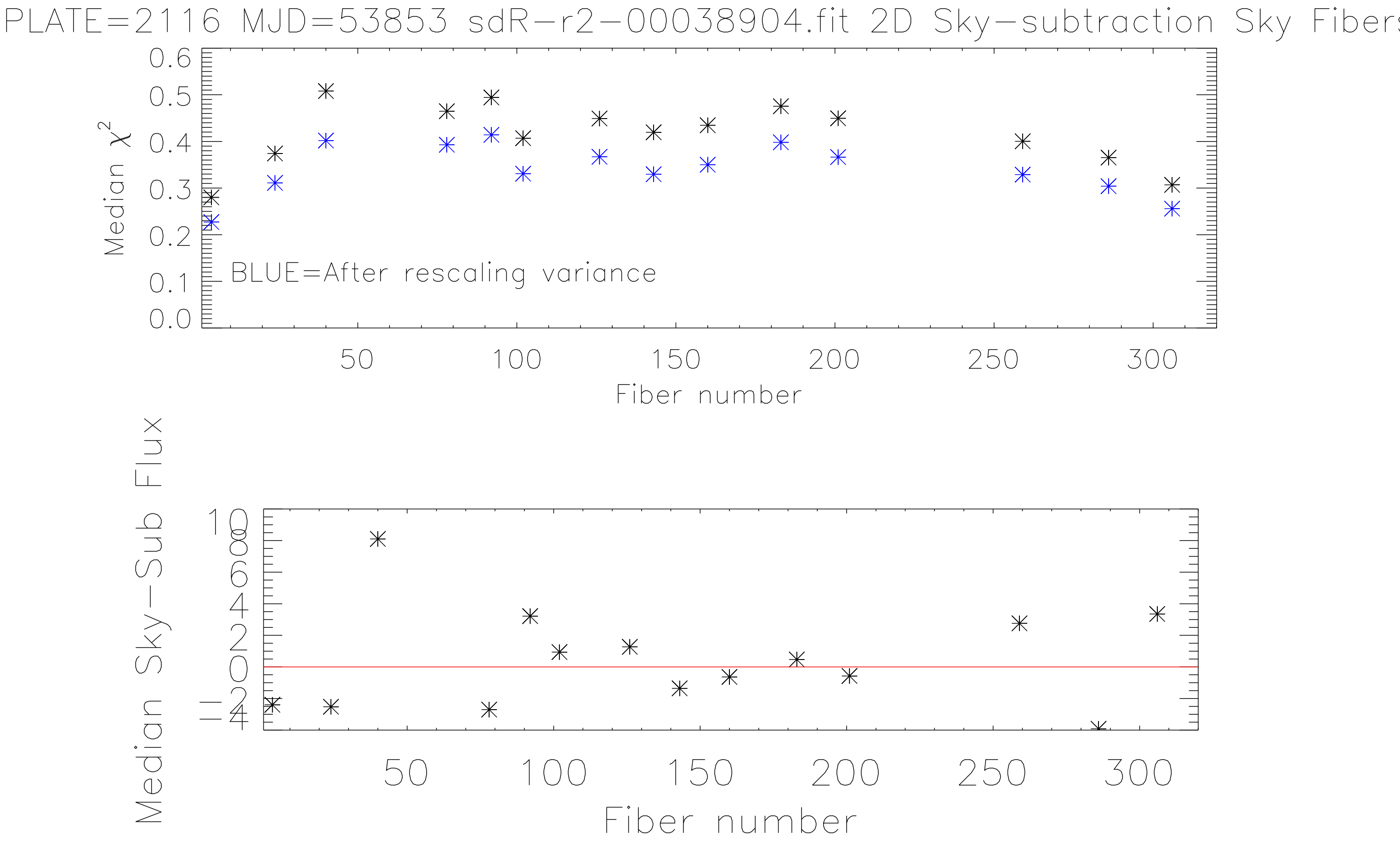


PLATE=2116 MJD=53853 sdR-r2-00038904.fit 1D Sky-subtraction Sky-subtracted Sky F

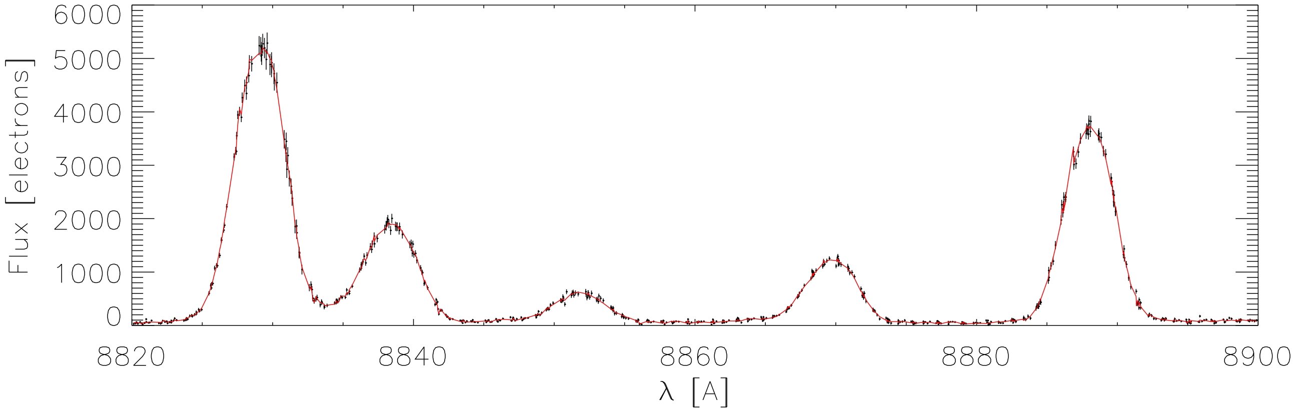
Number of sky fibers = 14

PLATE=2116 MJD=53853 sdR-r2-00038904.fit 1D Sky-subtraction Rescaled Errors

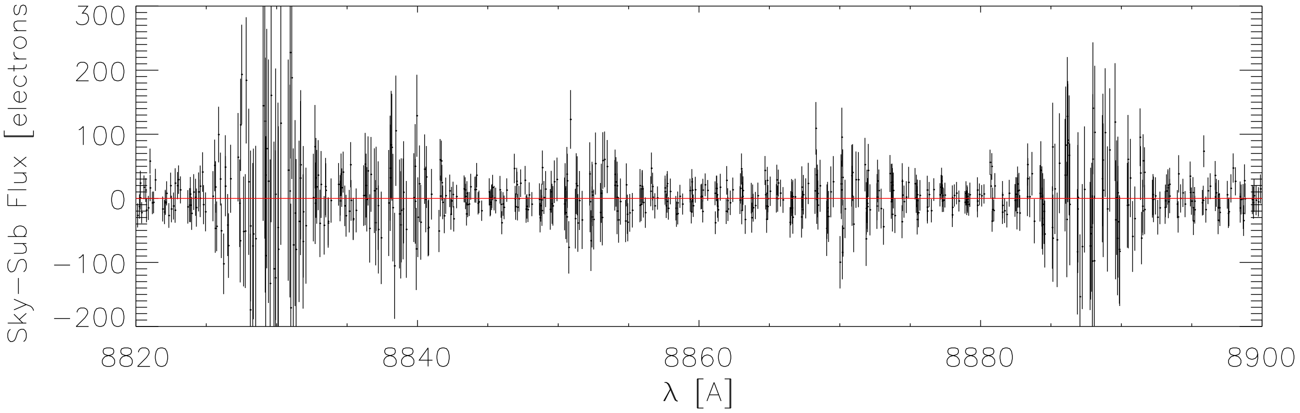



PLATE=2116 MJD=53853 sdR-r2-00038904.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.6
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
8
6
4
2
0
-2
-4
50
100
150
200
250
300
Fiber number

PLATE=2116 MJD=53853 sdR-r2-00038904.fit 2D Sky-subtraction Sky Fibers

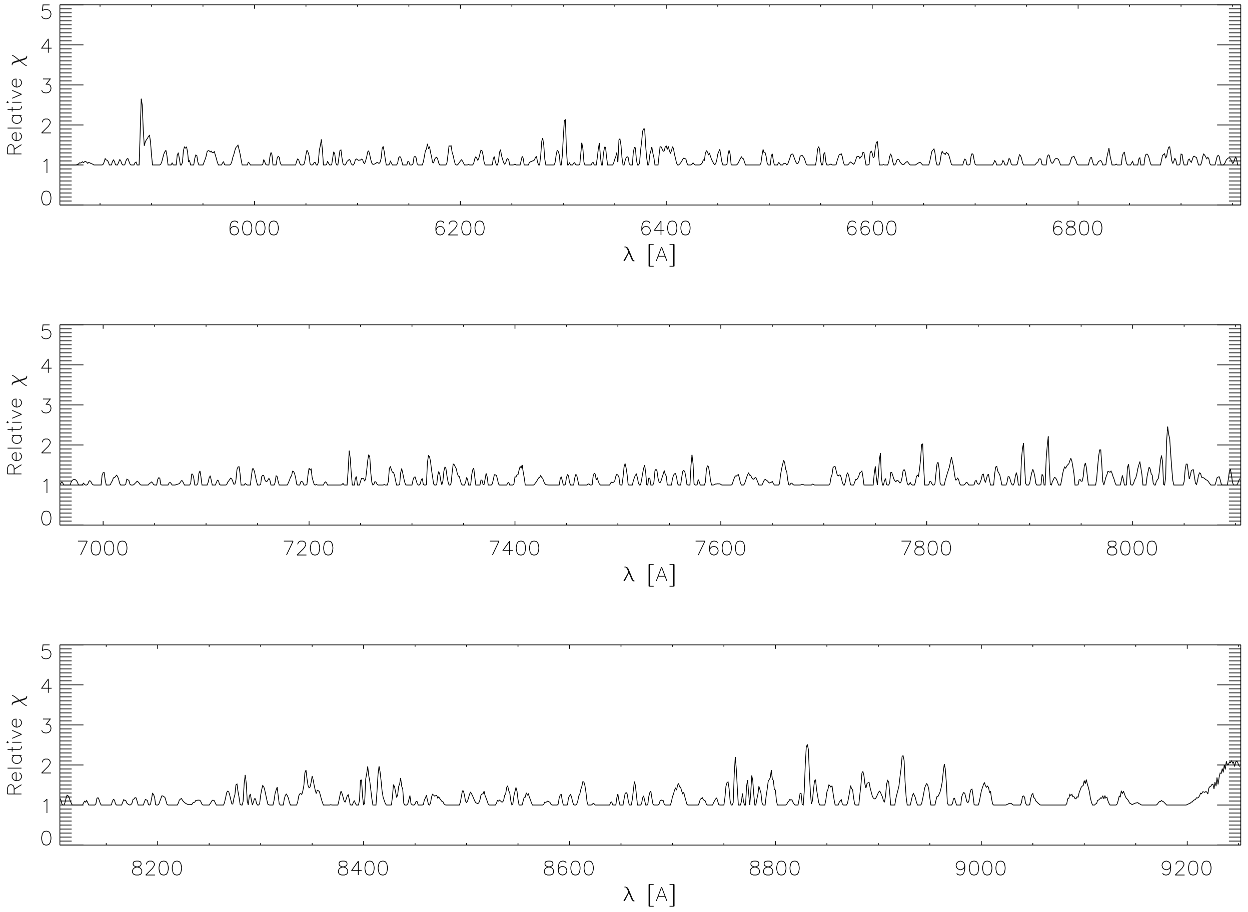


PLATE=2116 MJD=53853 sdR-r2-00038904.fit 2D Sky-subtraction Sky-subtracted Sky F

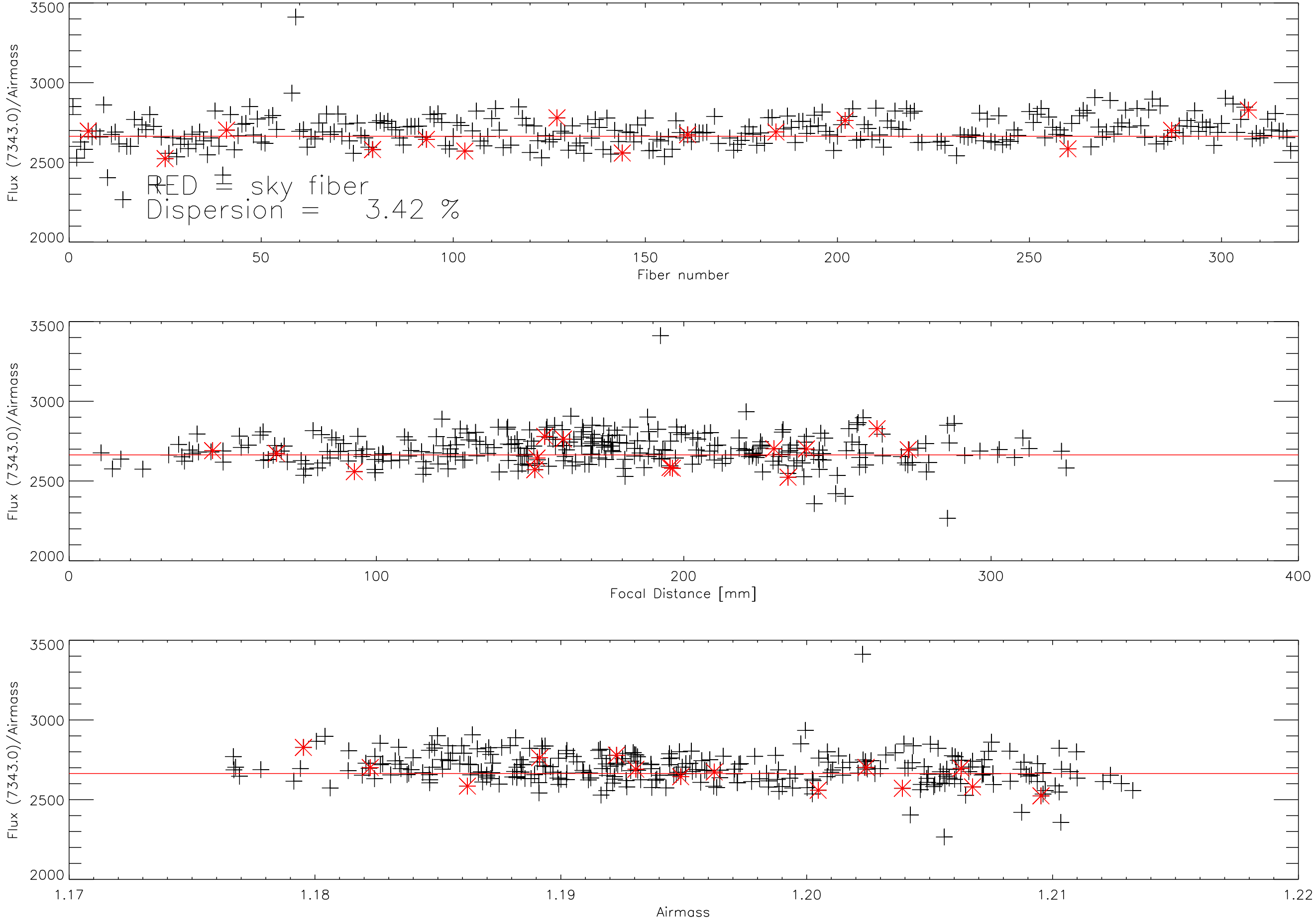


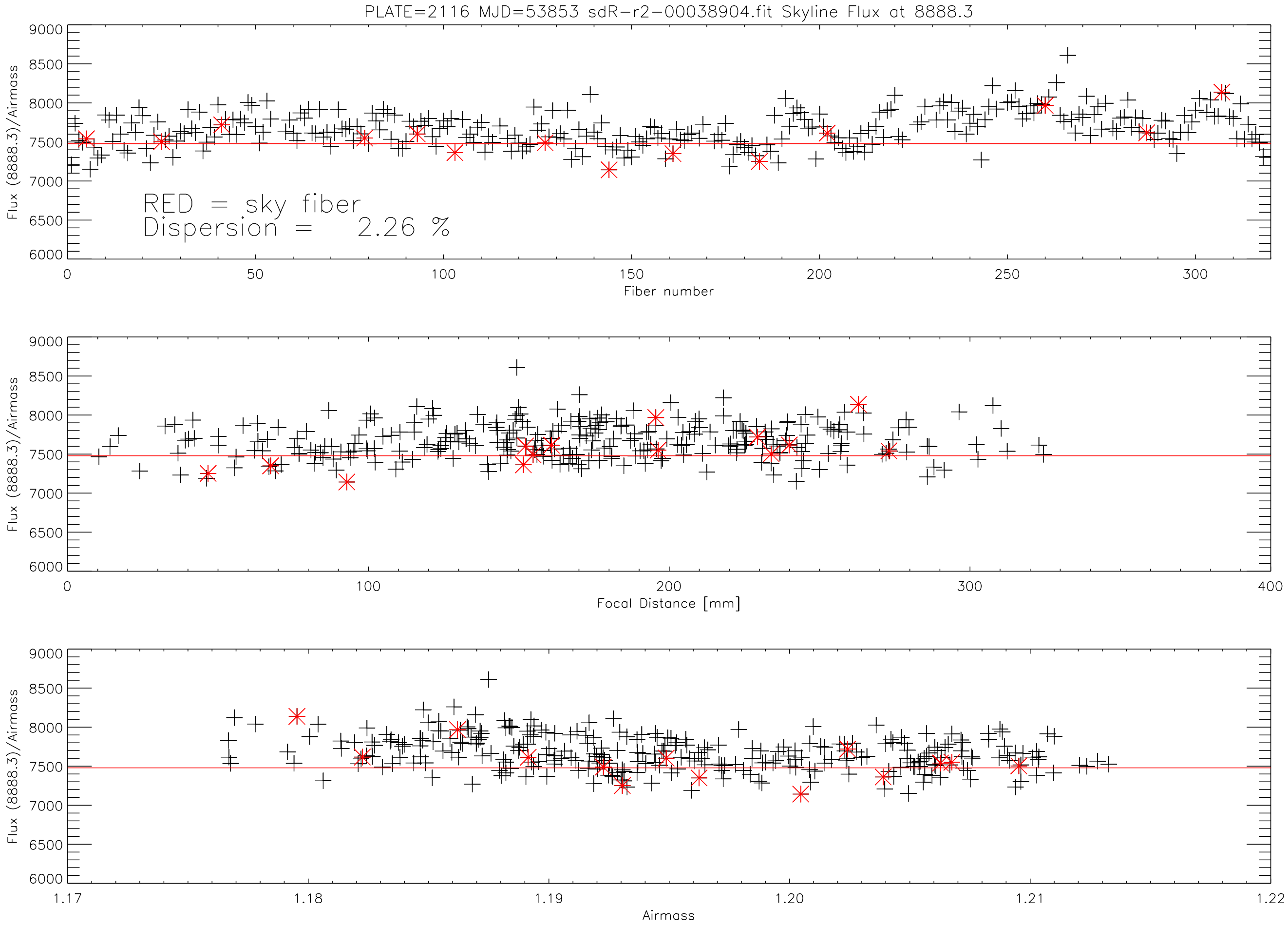
Number of sky fibers = 14

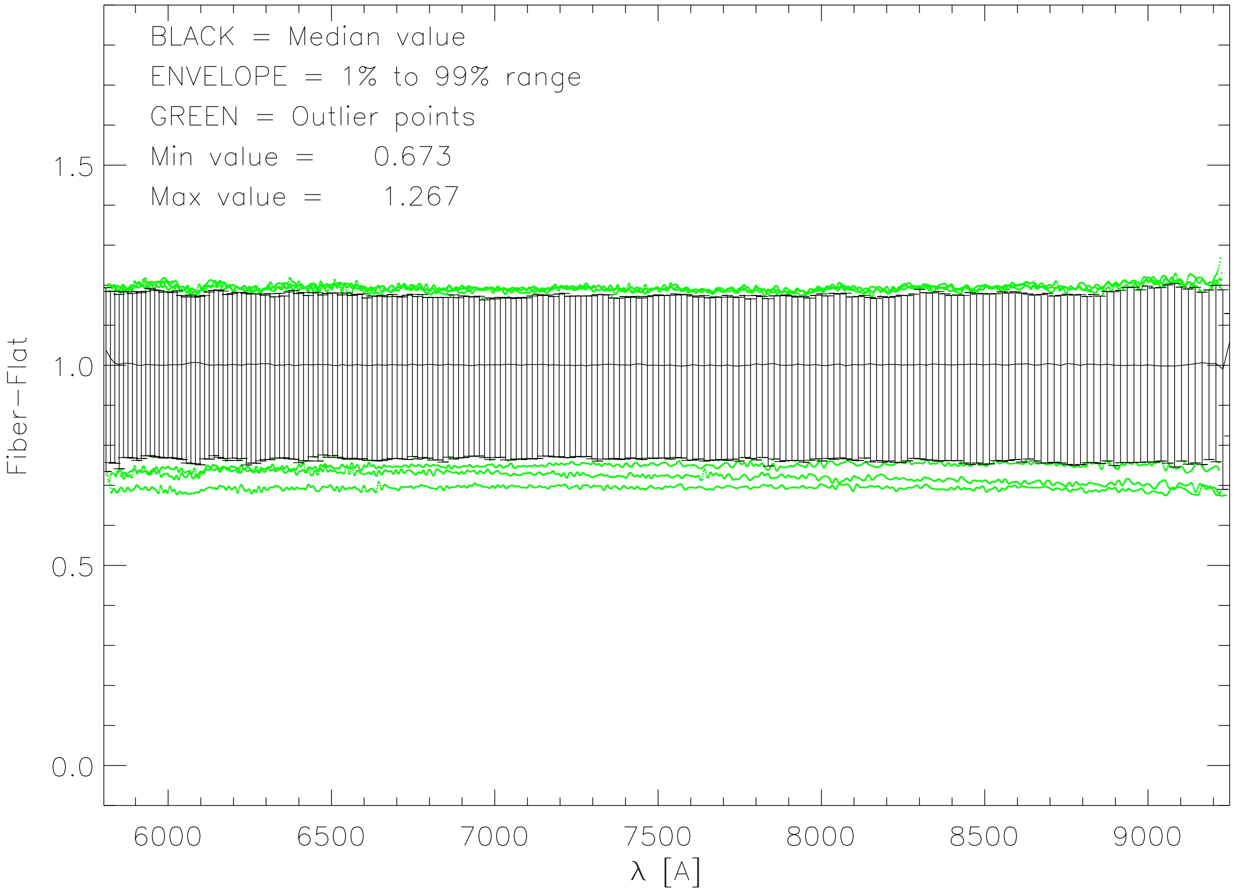
PLATE=2116 MJD=53853 sdR-r2-00038904.fit 2D Sky-subtraction Rescaled Errors



PLATE=2116 MJD=53853 sdR-r2-00038904.fit Skyline Flux at 7343,0

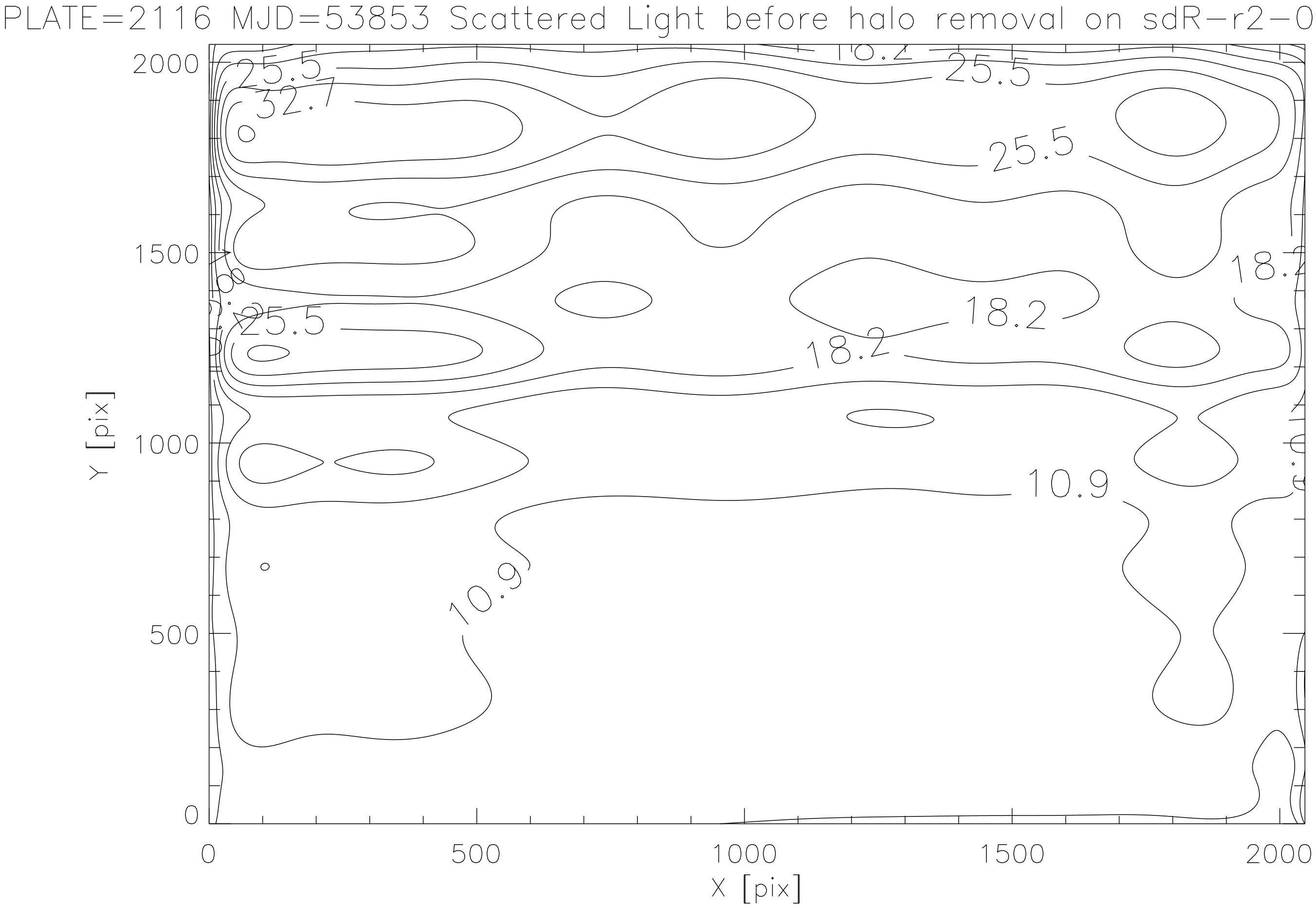


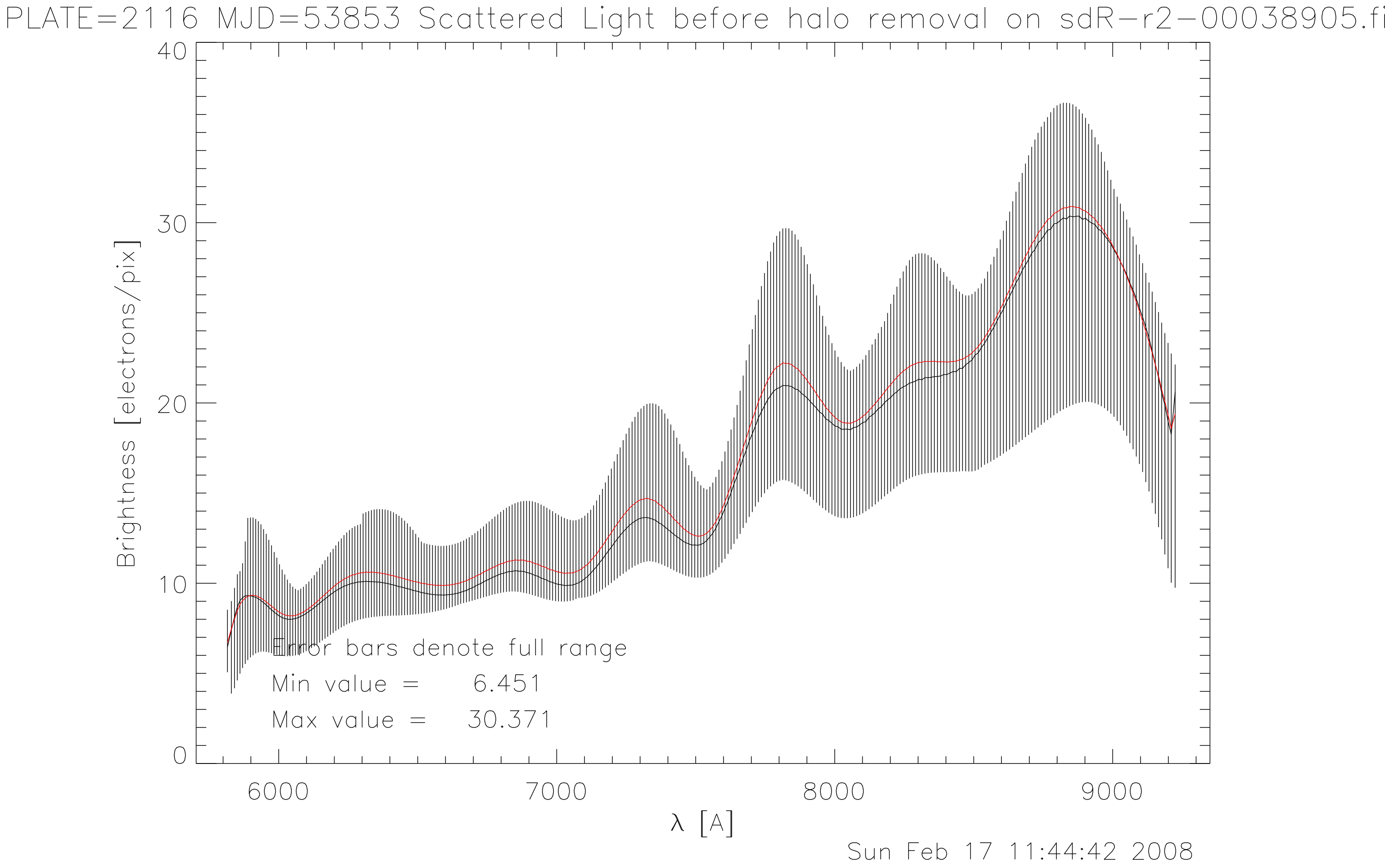

PLATE=2116 MJD=53853 sdR-r2-00038904.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
9000
8500
8000
7500
7000
6500
6000
RED = sky fiber
Dispersion = 2.26 %
0
50
100
150
200
250
300
Fiber number
Flux (8888.3)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (8888.3)/Airmass
1.17
1.18
1.19
1.20
1.21
1.22
Airmass



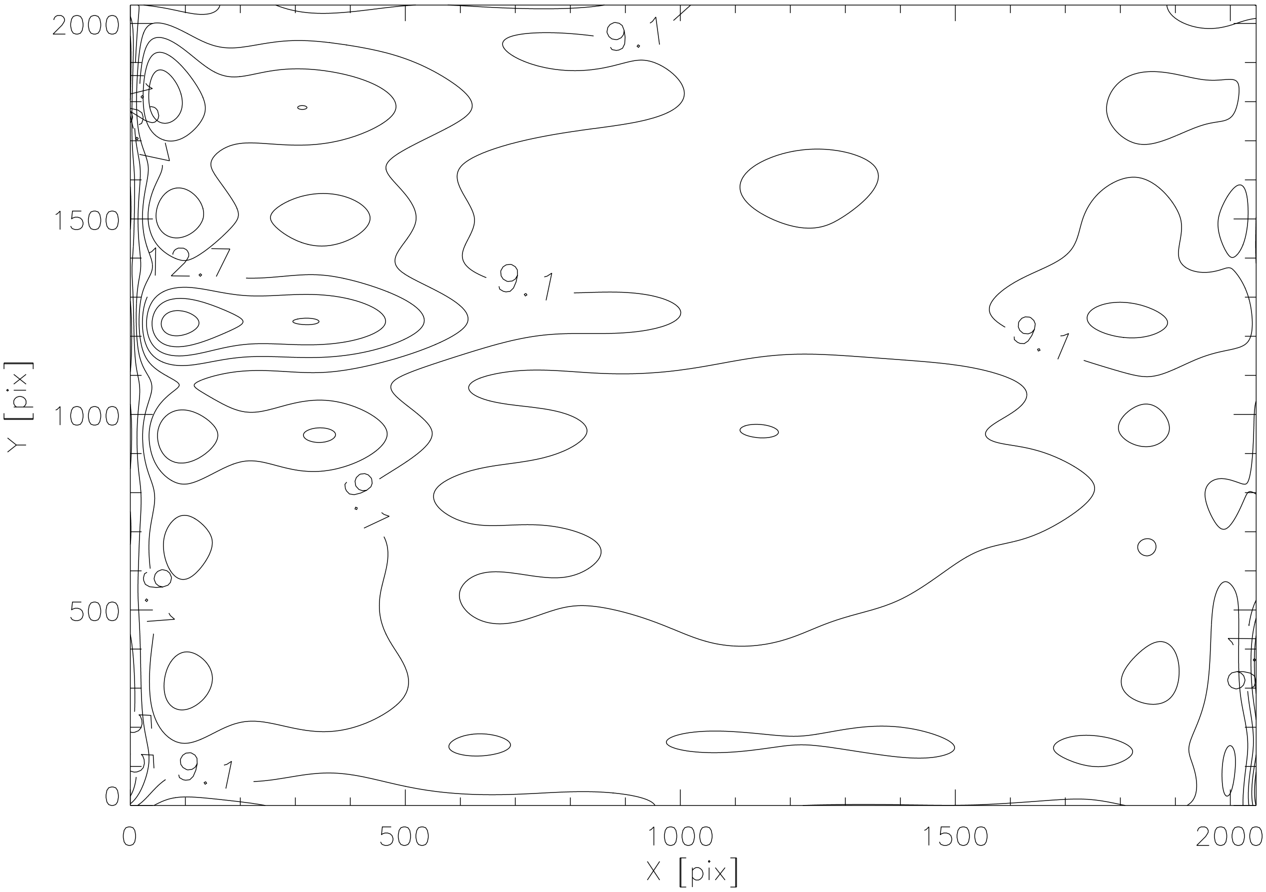
PLATE=2116 MJD=53853 Fiber-Flats for sdR-r2-00038906.fit

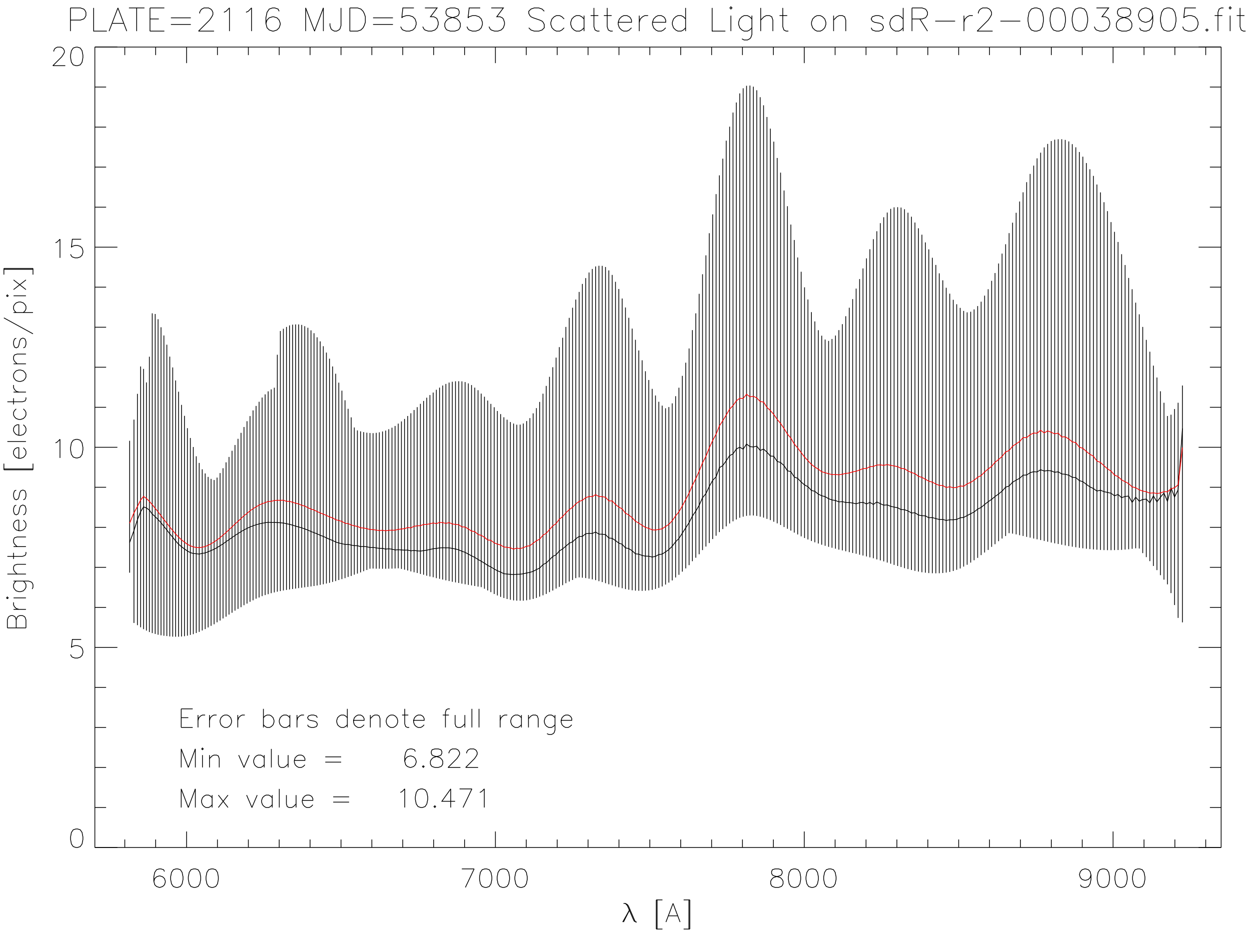
Sun Feb 17 11:43:47 2008


PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-r2-00038905.fi
25.5
32.7
18.2
25.5
25.5
18.2
25.5
18.2
18.2
10.9
10.9
Y [pix]
X [pix]
0
500
1000
1500
2000
0
500
1000
1500
2000

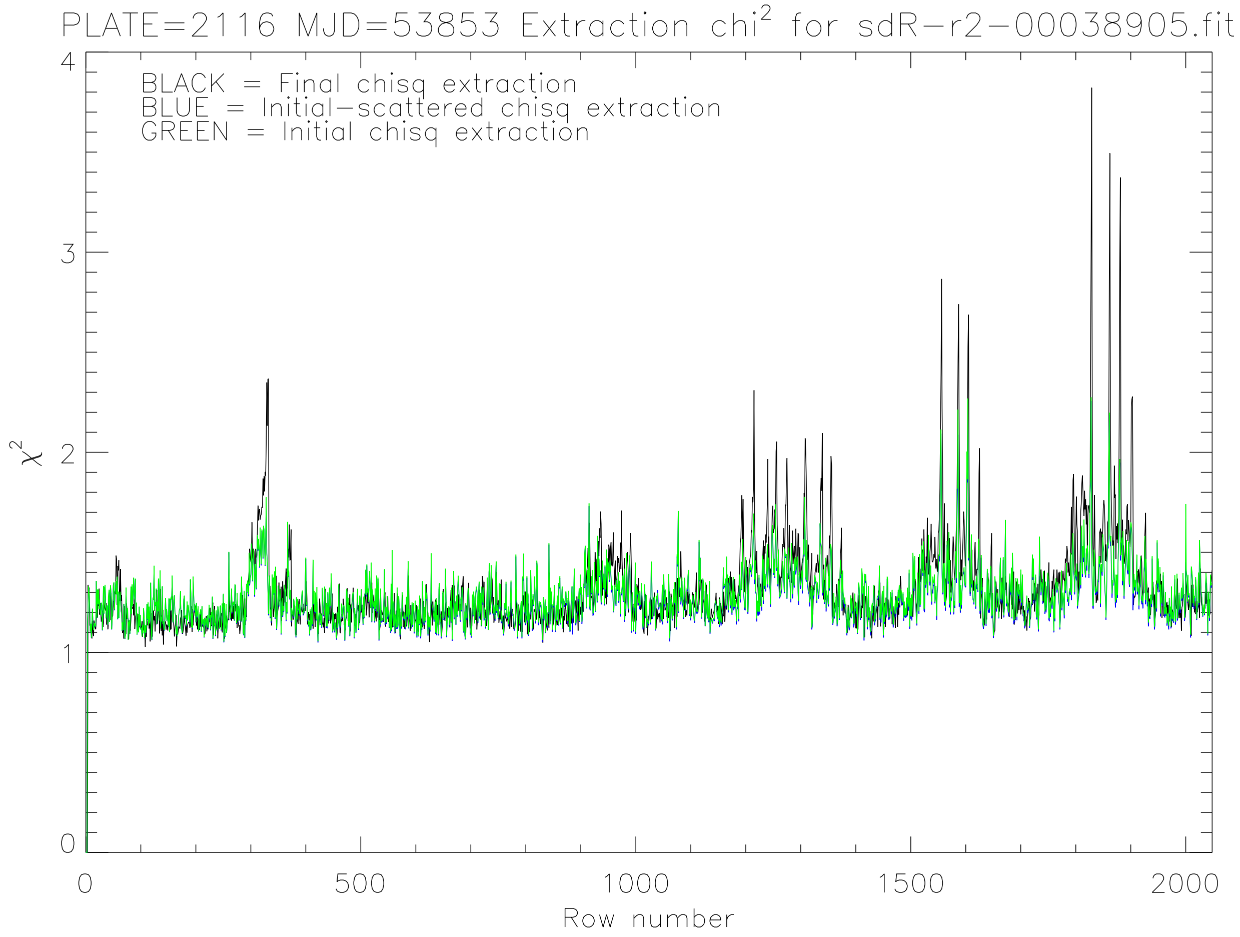

PLATE=2116 MJD=53853 Scattered Light before halo removal on sdR-r2-00038905.fi
Brightness [electrons/pix]
0
10
20
30
40
6000
7000
8000
9000
λ [A]
Error bars denote full range
Min value = 6.451
Max value = 30.371
Sun Feb 17 11:44:42 2008

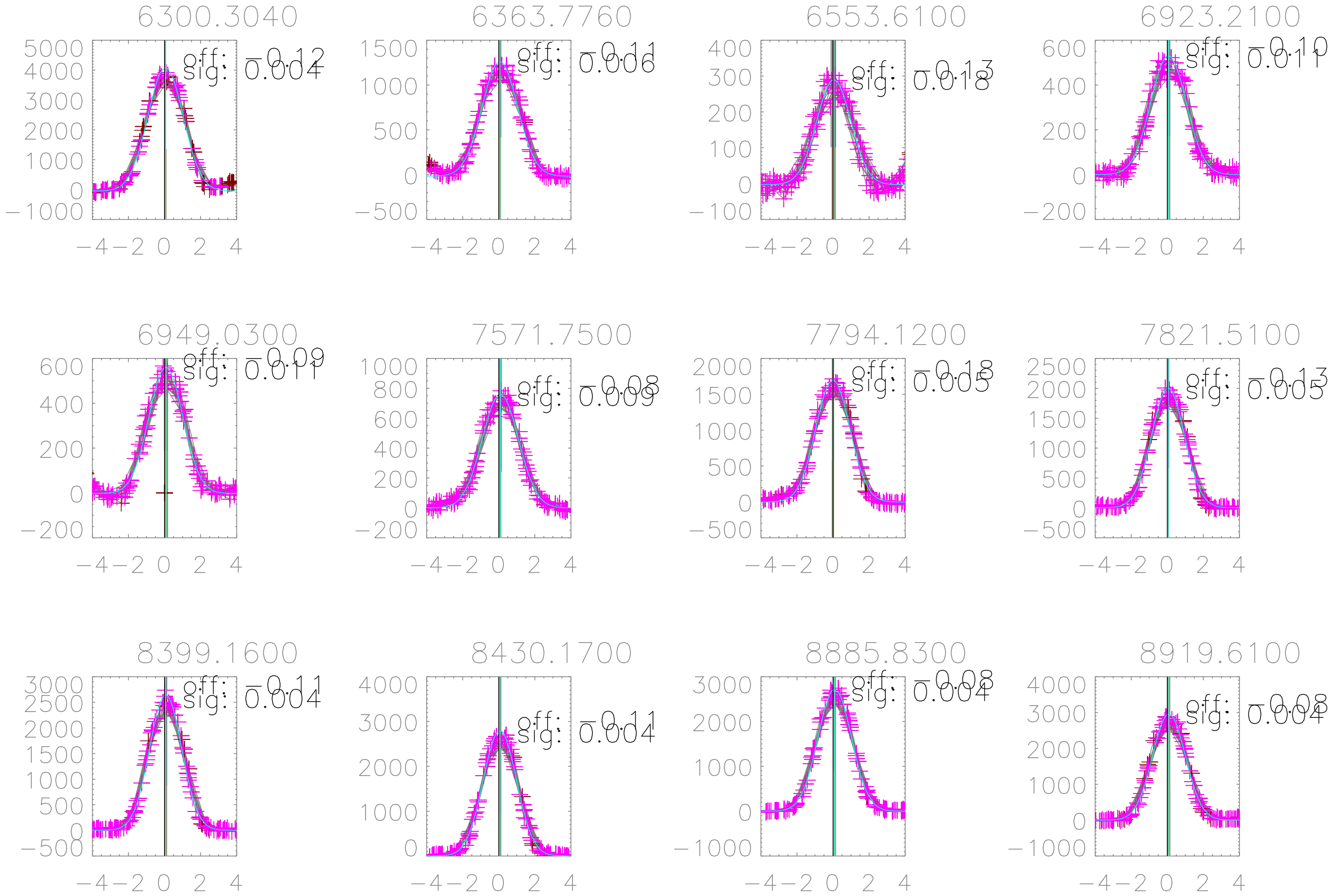
PLATE=2116 MJD=53853 Scattered Light on sdR-r2-00038905.fit

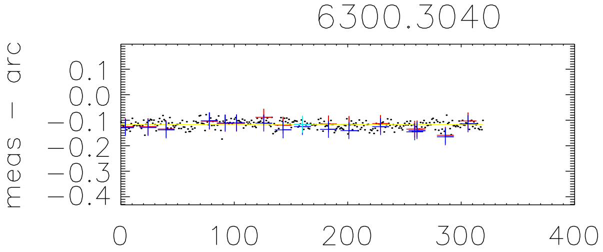


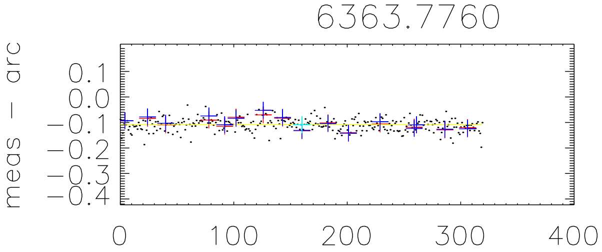


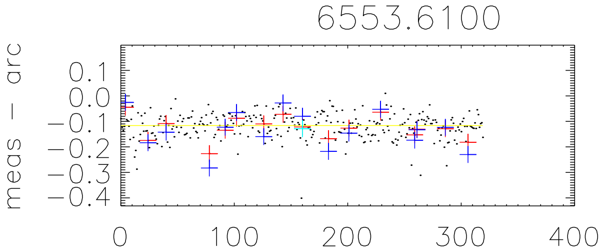
Sun Feb 17 11:47:49 2008

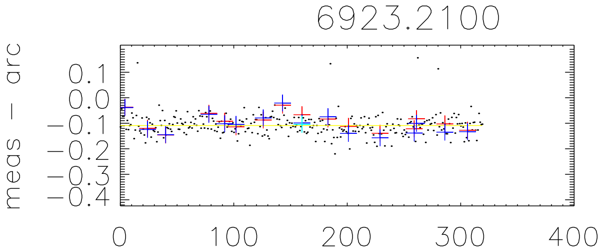

PLATE=2116 MJD=53853 Extraction chi^2 for sdR-r2-00038905.fit

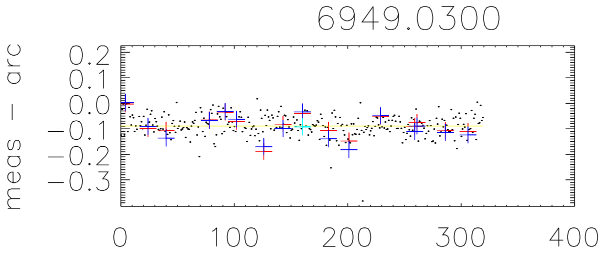

6300.3040
off: −0.12
sig: 0.004
6363.7760
off: −0.11
sig: 0.006
6553.6100
off: −0.13
sig: 0.018
6923.2100
off: −0.10
sig: 0.011
6949.0300
off: −0.09
sig: 0.011
7571.7500
off: −0.08
sig: 0.009
7794.1200
off: −0.18
sig: 0.005
7821.5100
off: −0.13
sig: 0.005
8399.1600
off: −0.11
sig: 0.004
8430.1700
off: −0.11
sig: 0.004
8885.8300
off: −0.08
sig: 0.004
8919.6100
off: −0.08
sig: 0.004
−4 −2 0 2 4

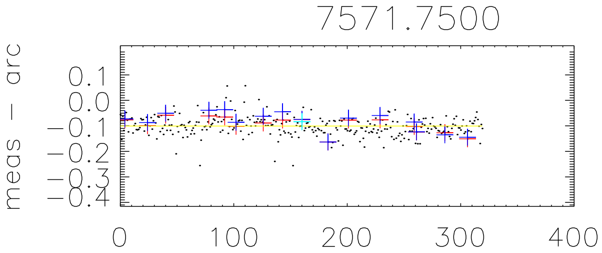

6300.3040
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

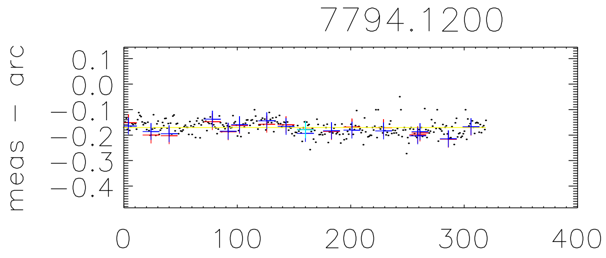

6363.7760
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

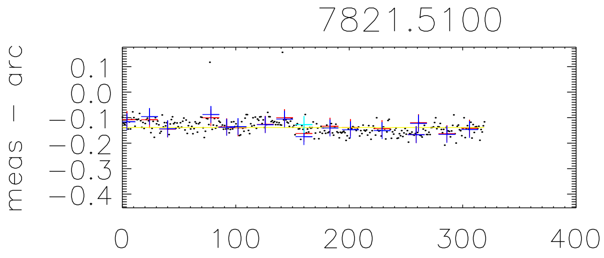

6553.6100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

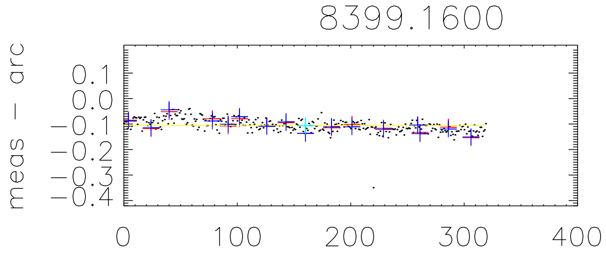

6923.2100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

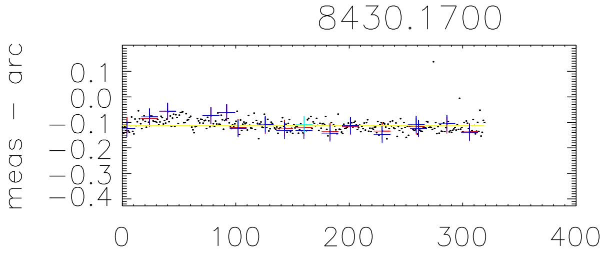

6949.0300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

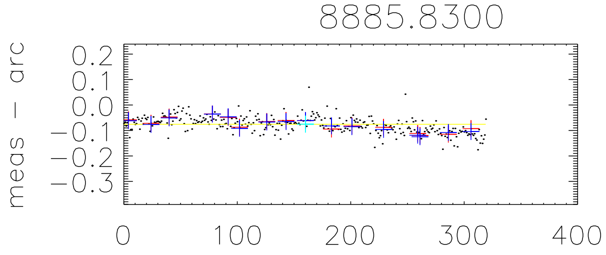

7571.7500
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

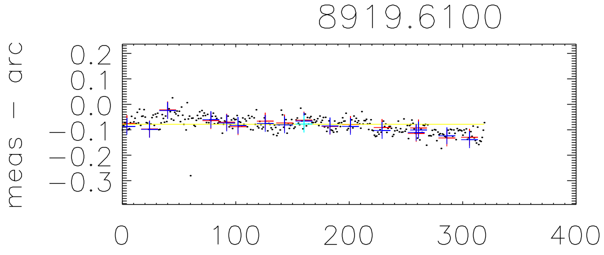

7794.1200
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

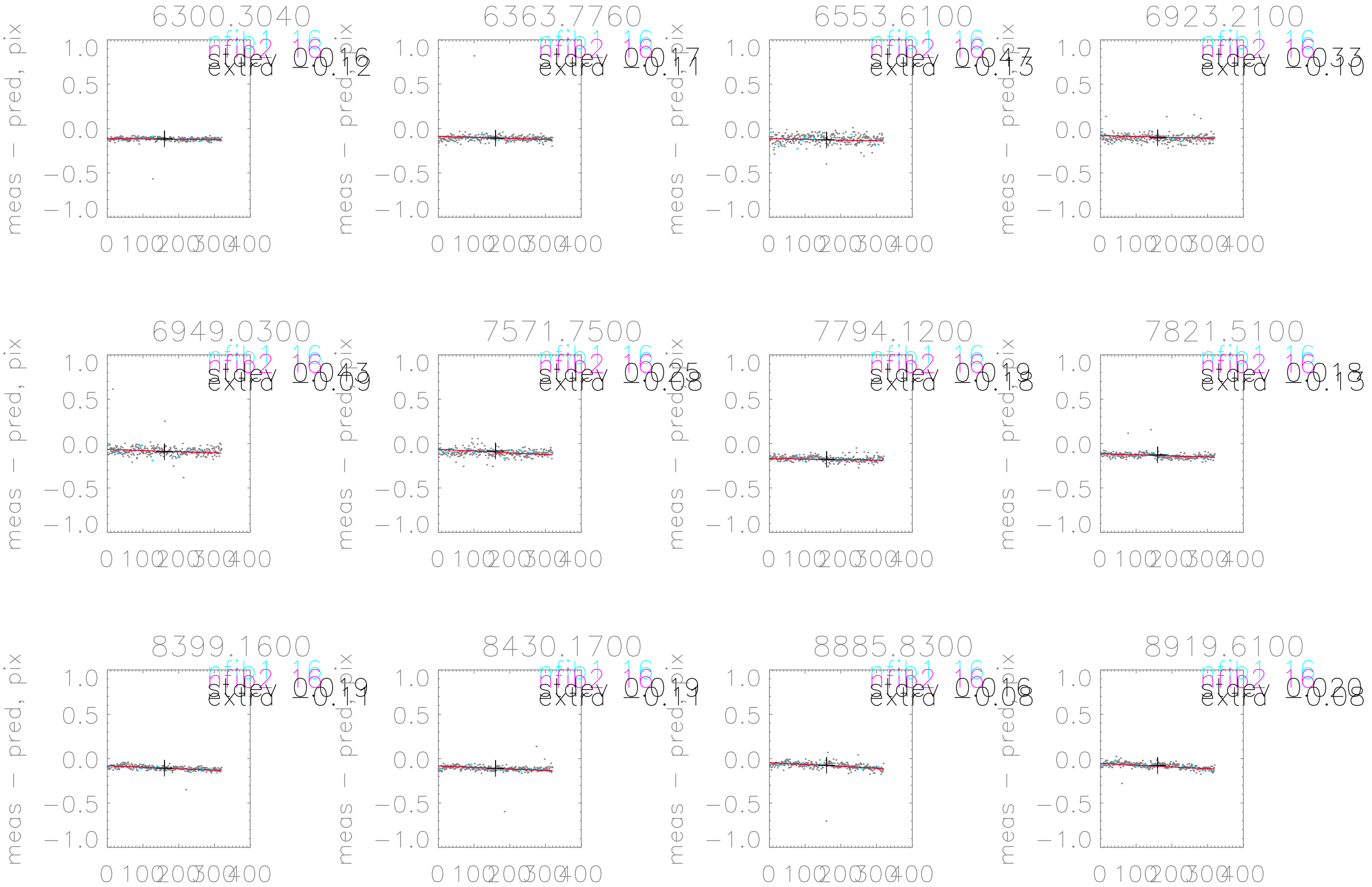

7821.5100
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

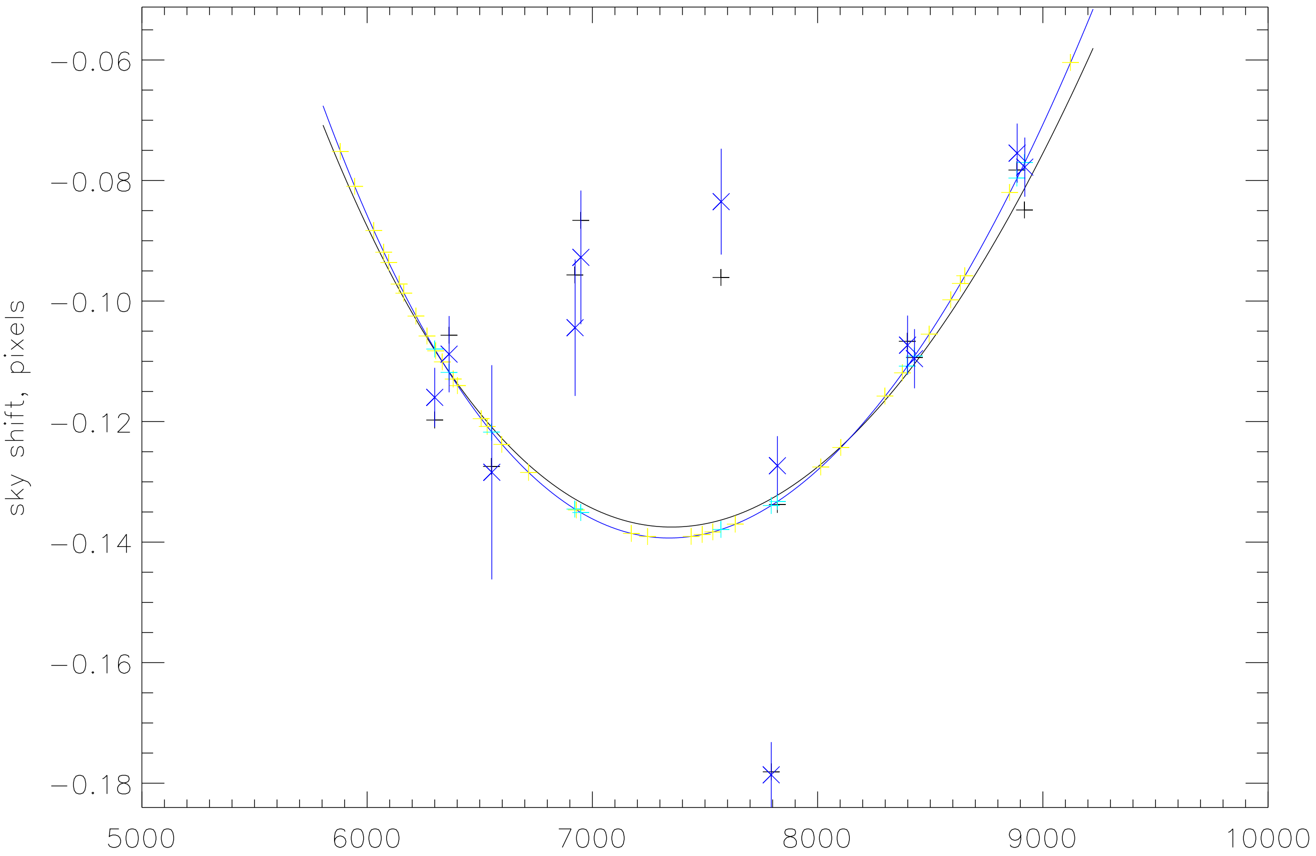

8399.1600
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

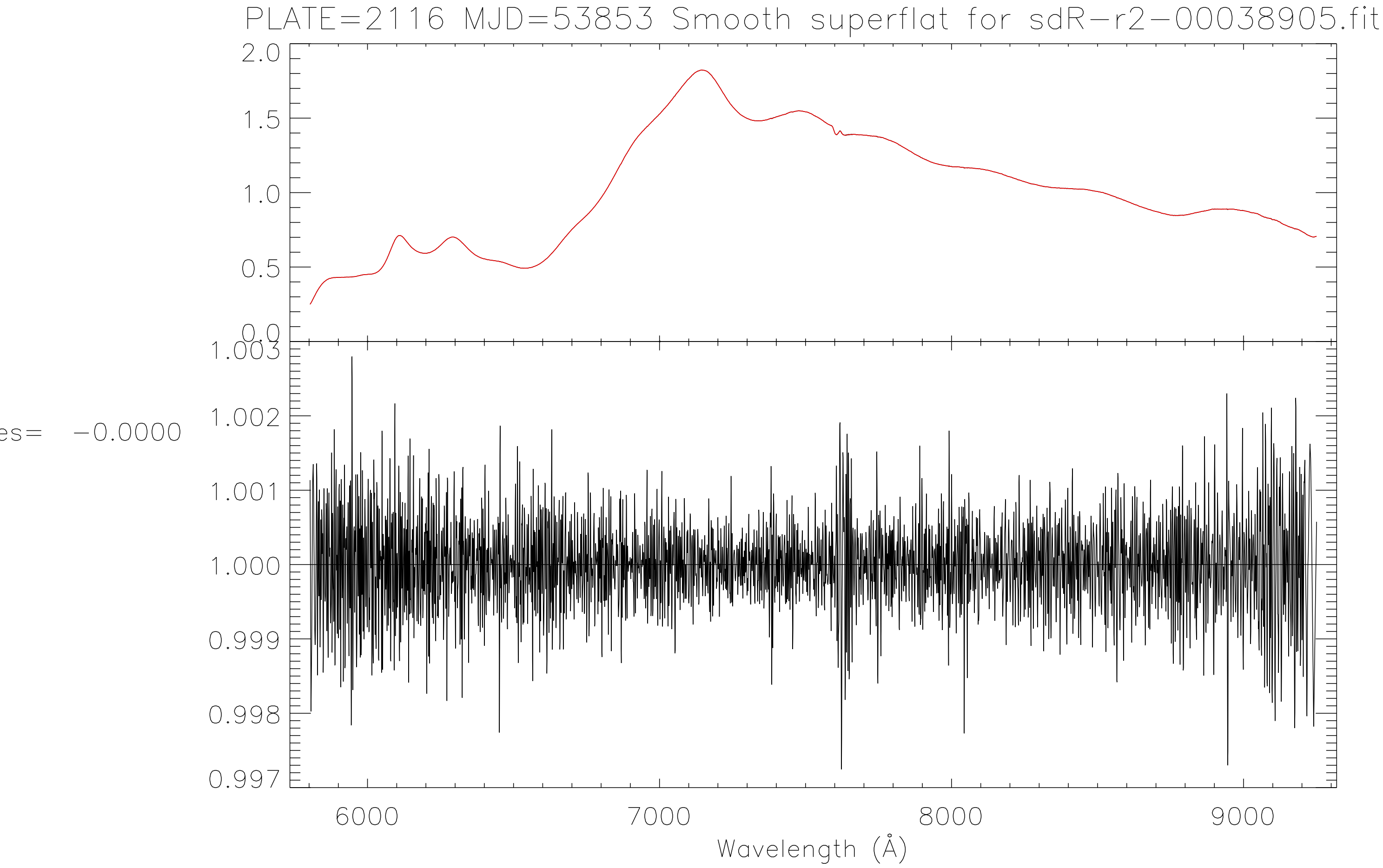

8430.1700
meas − arc
0.1
0.0
−0.1
−0.2
−0.3
−0.4
0
100
200
300
400

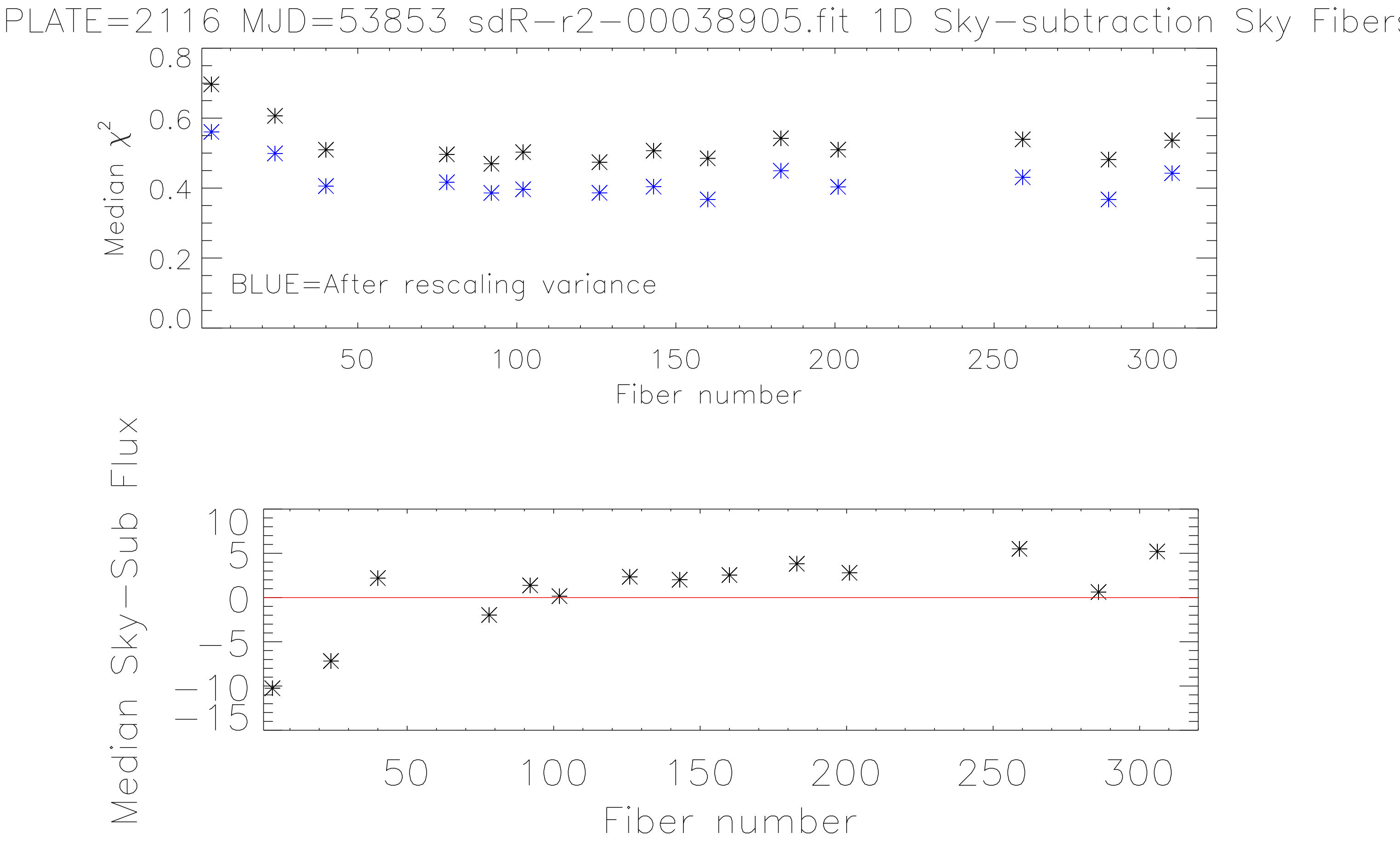

8885.8300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

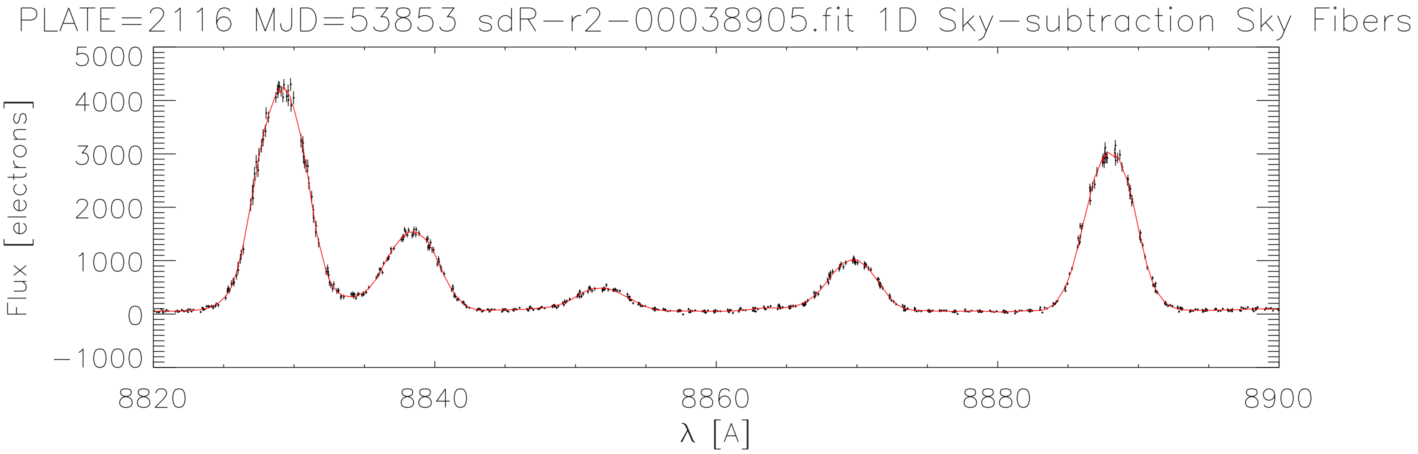

8919.6100
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

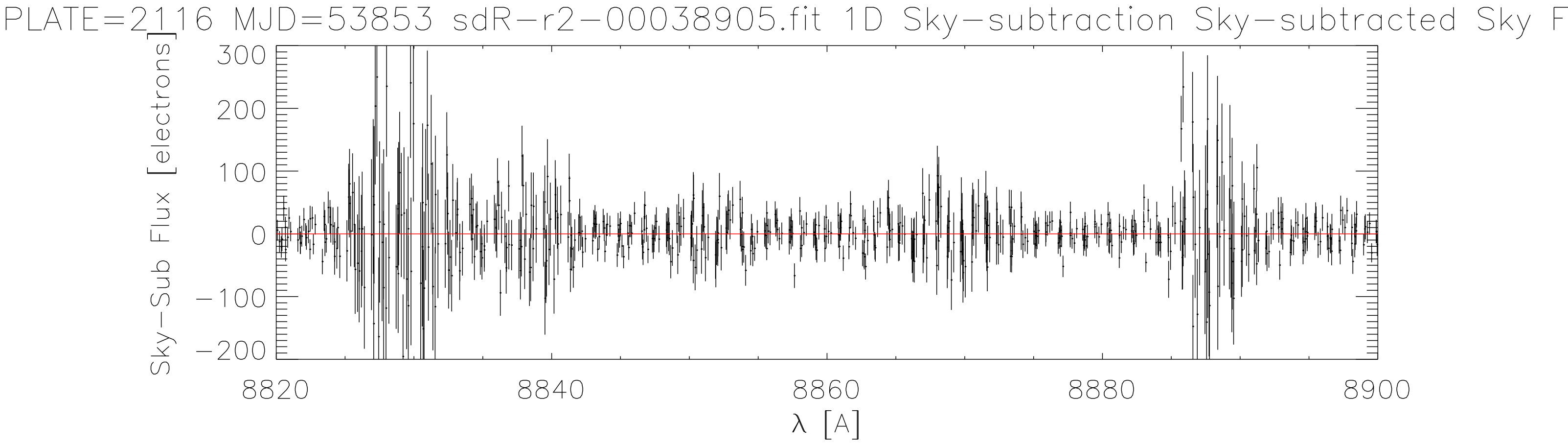

6300.3040
nfib1 16
nfib2 16
stdev 0.016
extrd −0.12
6363.7760
nfib1 16
nfib2 16
stdev 0.017
extrd −0.11
6553.6100
nfib1 16
nfib2 16
stdev 0.047
extrd −0.13
6923.2100
nfib1 16
nfib2 16
stdev 0.033
extrd −0.10
6949.0300
nfib1 16
nfib2 16
stdev 0.043
extrd −0.09
7571.7500
nfib1 16
nfib2 16
stdev 0.025
extrd −0.08
7794.1200
nfib1 16
nfib2 16
stdev 0.019
extrd −0.18
7821.5100
nfib1 16
nfib2 16
stdev 0.018
extrd −0.13
8399.1600
nfib1 16
nfib2 16
stdev 0.019
extrd −0.11
8430.1700
nfib1 16
nfib2 16
stdev 0.019
extrd −0.11
8885.8300
nfib1 16
nfib2 16
stdev 0.016
extrd −0.08
8919.6100
nfib1 16
nfib2 16
stdev 0.020
extrd −0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

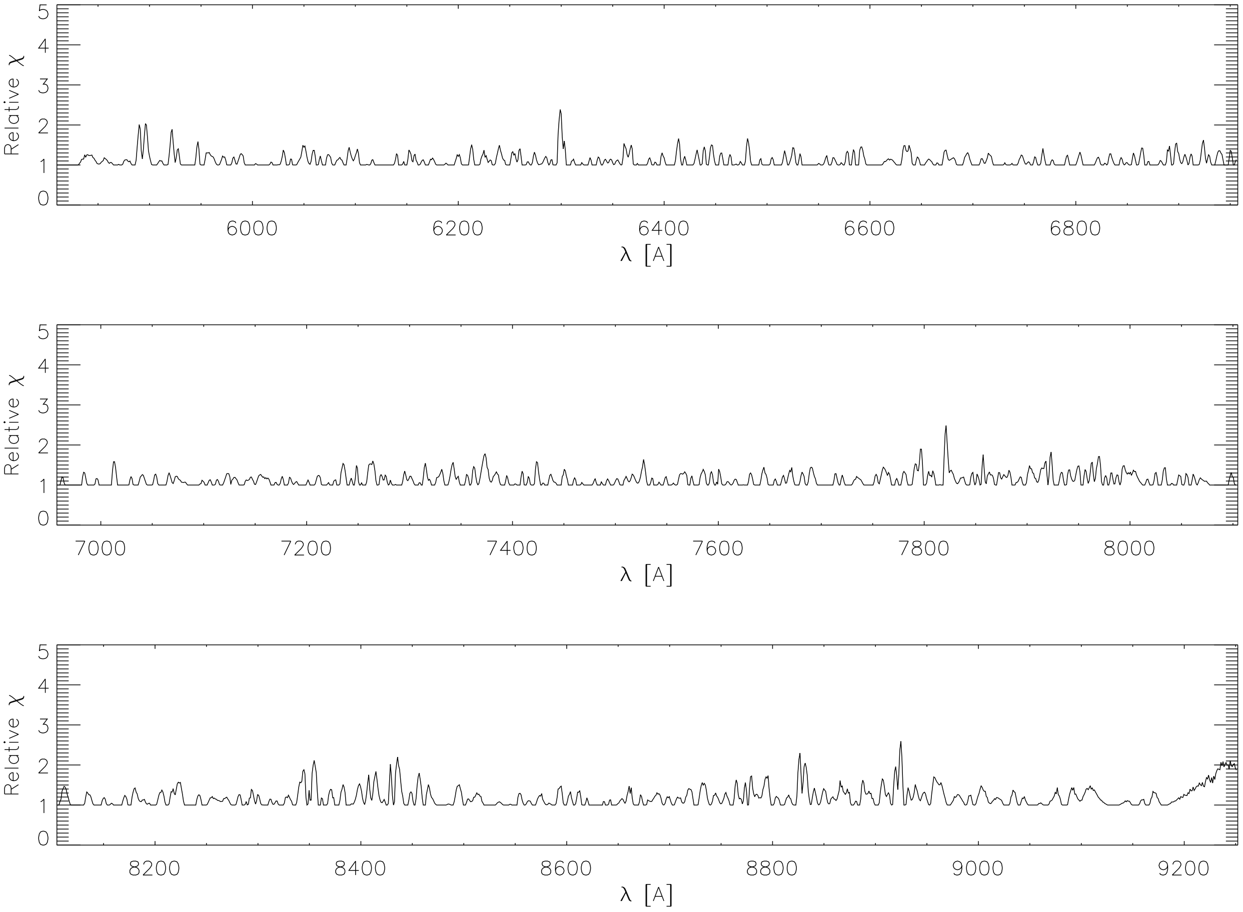

sky shift, pixels
−0.06
−0.08
−0.10
−0.12
−0.14
−0.16
−0.18
5000
6000
7000
8000
9000
10000


PLATE=2116 MJD=53853 Smooth superflat for sdR-r2-00038905.fit
2.0
1.5
1.0
0.5
0.0
1.003
1.002
1.001
1.000
0.999
0.998
0.997
es= −0.0000
6000
7000
8000
9000
Wavelength (Å)


PLATE=2116 MJD=53853 sdR-r2-00038905.fit 1D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
−15
50
100
150
200
250
300
Fiber number

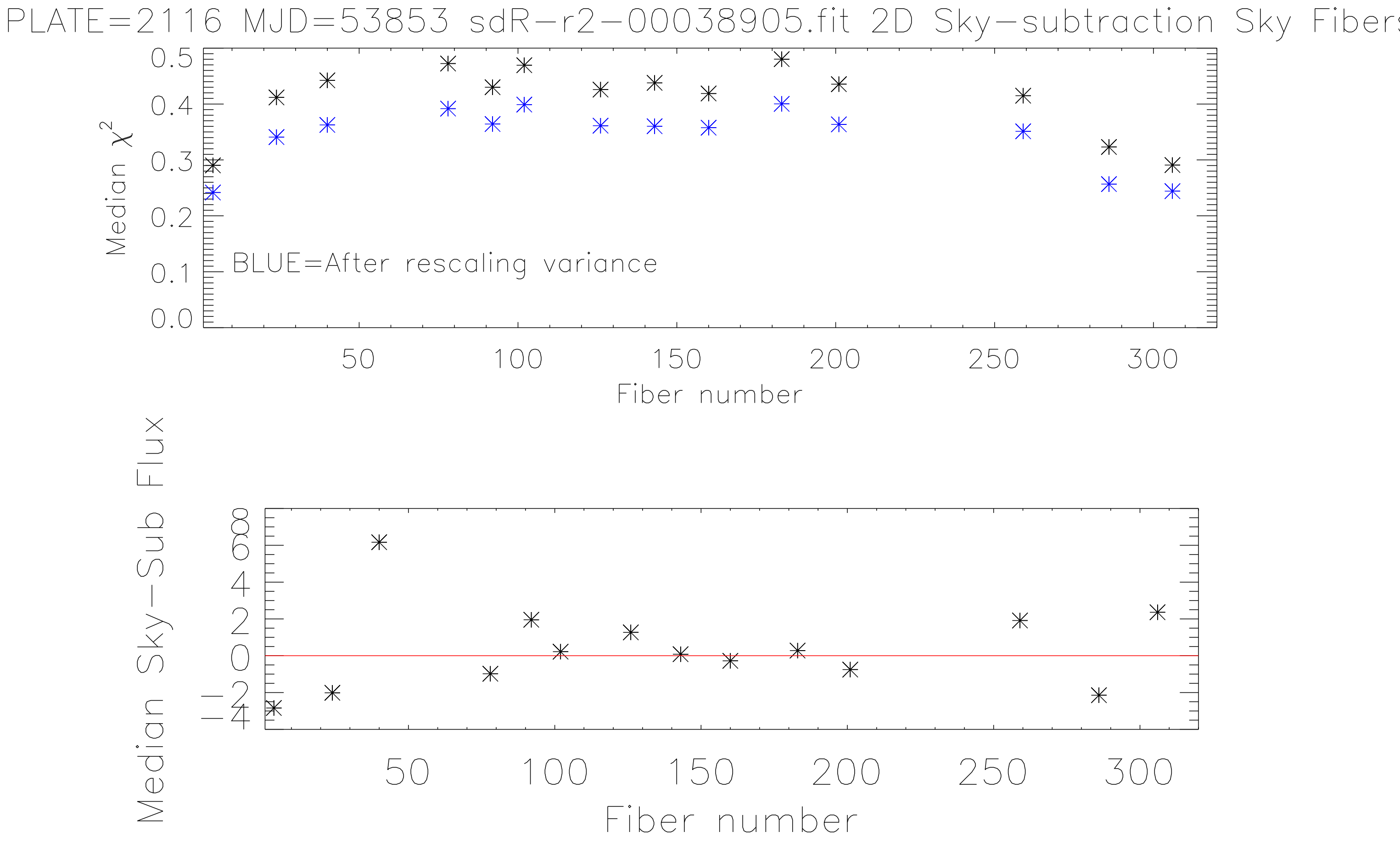

PLATE=2116 MJD=53853 sdR-r2-00038905.fit 1D Sky-subtraction Sky Fibers

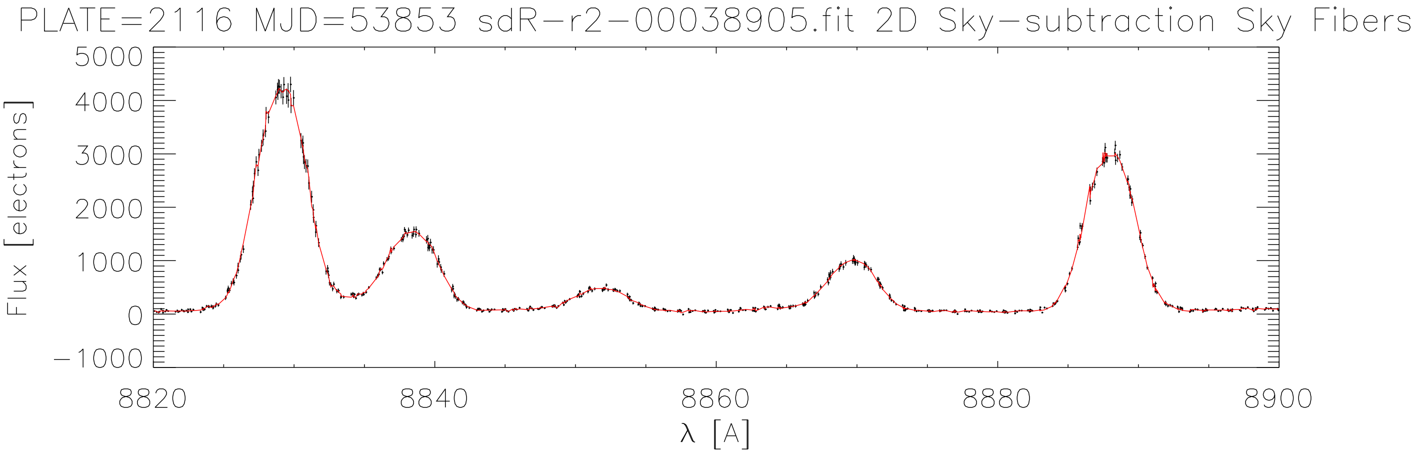

PLATE=2116 MJD=53853 sdR-r2-00038905.fit 1D Sky-subtraction Sky-subtracted Sky F

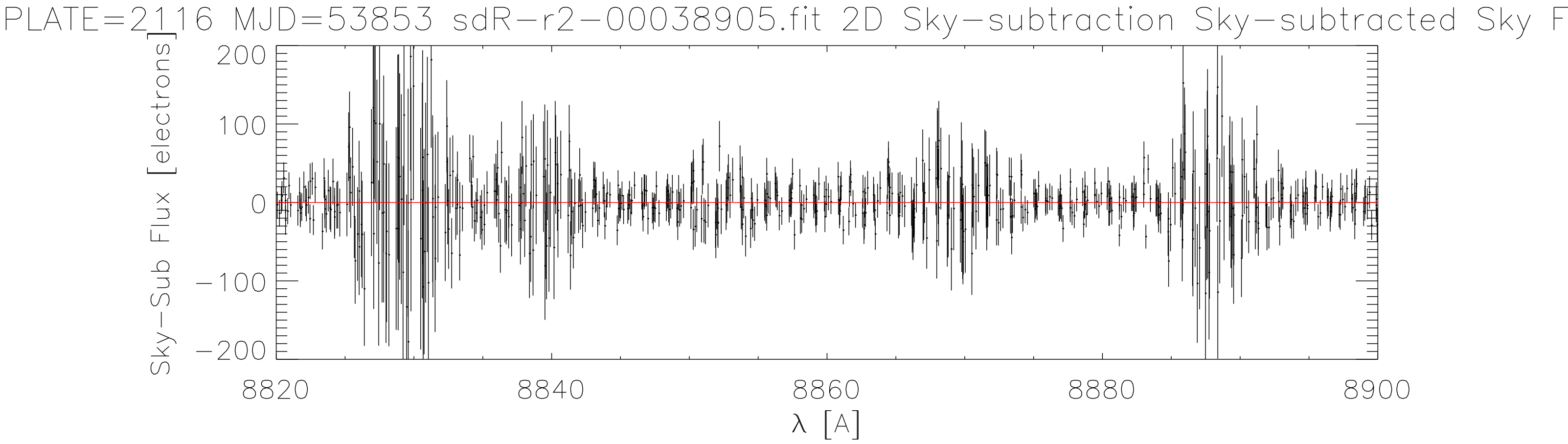


Number of sky fibers = 14

PLATE=2116 MJD=53853 sdR-r2-00038905.fit 1D Sky-subtraction Rescaled Errors

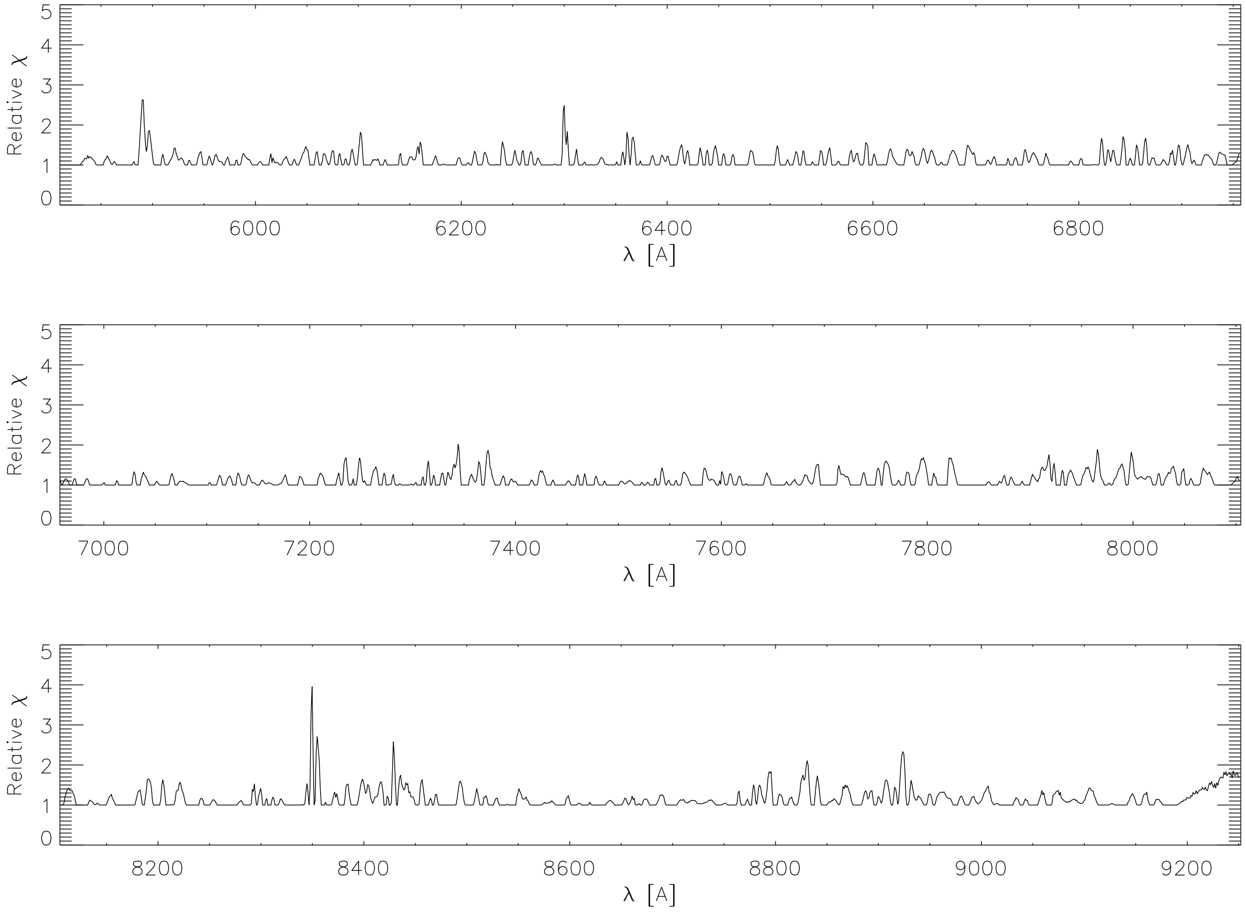

PLATE=2116 MJD=53853 sdR-r2-00038905.fit 2D Sky-subtraction Sky Fibers
Median χ^2
0.0
0.1
0.2
0.3
0.4
0.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

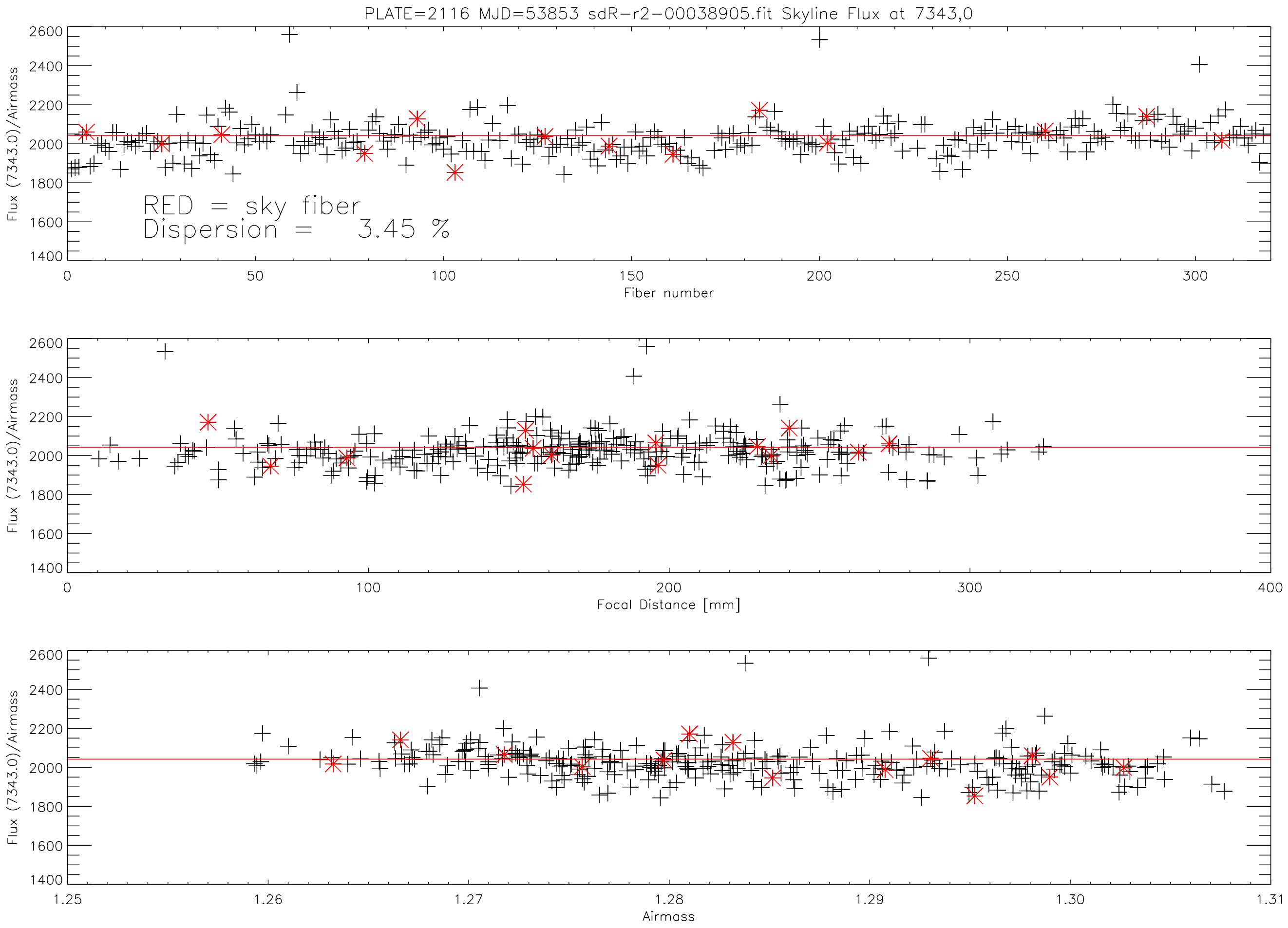

PLATE=2116 MJD=53853 sdR-r2-00038905.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
5000
4000
3000
2000
1000
0
−1000
8820
8840
8860
8880
8900
λ [A]

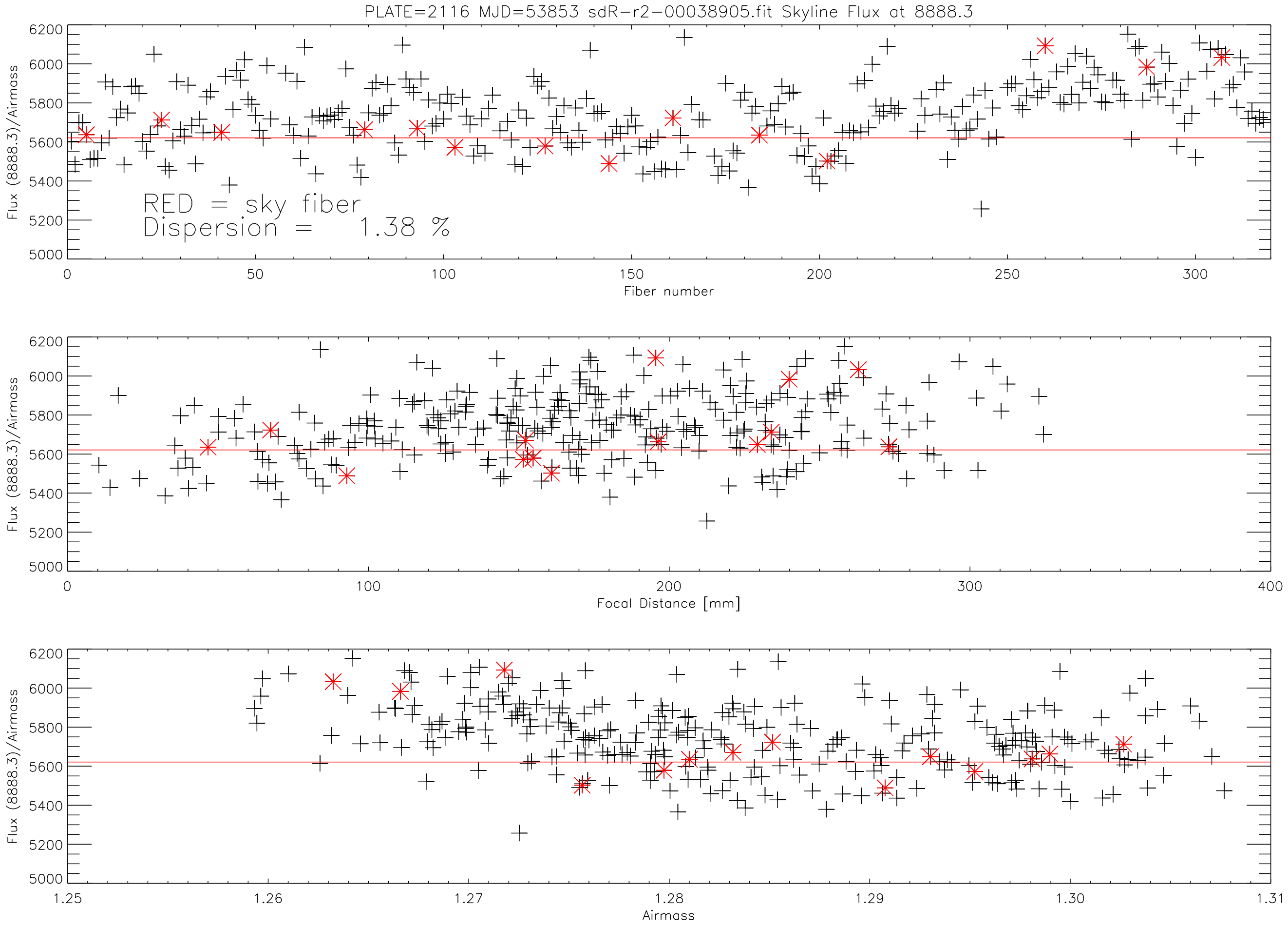

PLATE=2116 MJD=53853 sdR-r2-00038905.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
100
0
−100
−200
8820
8840
8860
8880
8900
λ [A]

Number of sky fibers = 14

PLATE=2116 MJD=53853 sdR-r2-00038905.fit 2D Sky-subtraction Rescaled Errors




PLATE=2116 MJD=53853 sdR-r2-00038905.fit Skyline Flux at 7343,0
RED = sky fiber
Dispersion = 3.45 %
Flux (7343.0)/Airmass
2600
2400
2200
2000
1800
1600
1400
0
50
100
150
200
250
300
Fiber number
Flux (7343.0)/Airmass
2600
2400
2200
2000
1800
1600
1400
0
100
200
300
400
Focal Distance [mm]
Flux (7343.0)/Airmass
2600
2400
2200
2000
1800
1600
1400
1.25
1.26
1.27
1.28
1.29
1.30
1.31
Airmass


PLATE=2116 MJD=53853 sdR-r2-00038905.fit Skyline Flux at 8888.3
Flux (8888.3)/Airmass
RED = sky fiber
Dispersion = 1.38 %
Fiber number
Focal Distance [mm]
Airmass
6200
6000
5800
5600
5400
5200
5000
0
50
100
150
200
250
300
400
1.25
1.26
1.27
1.28
1.29
1.30
1.31