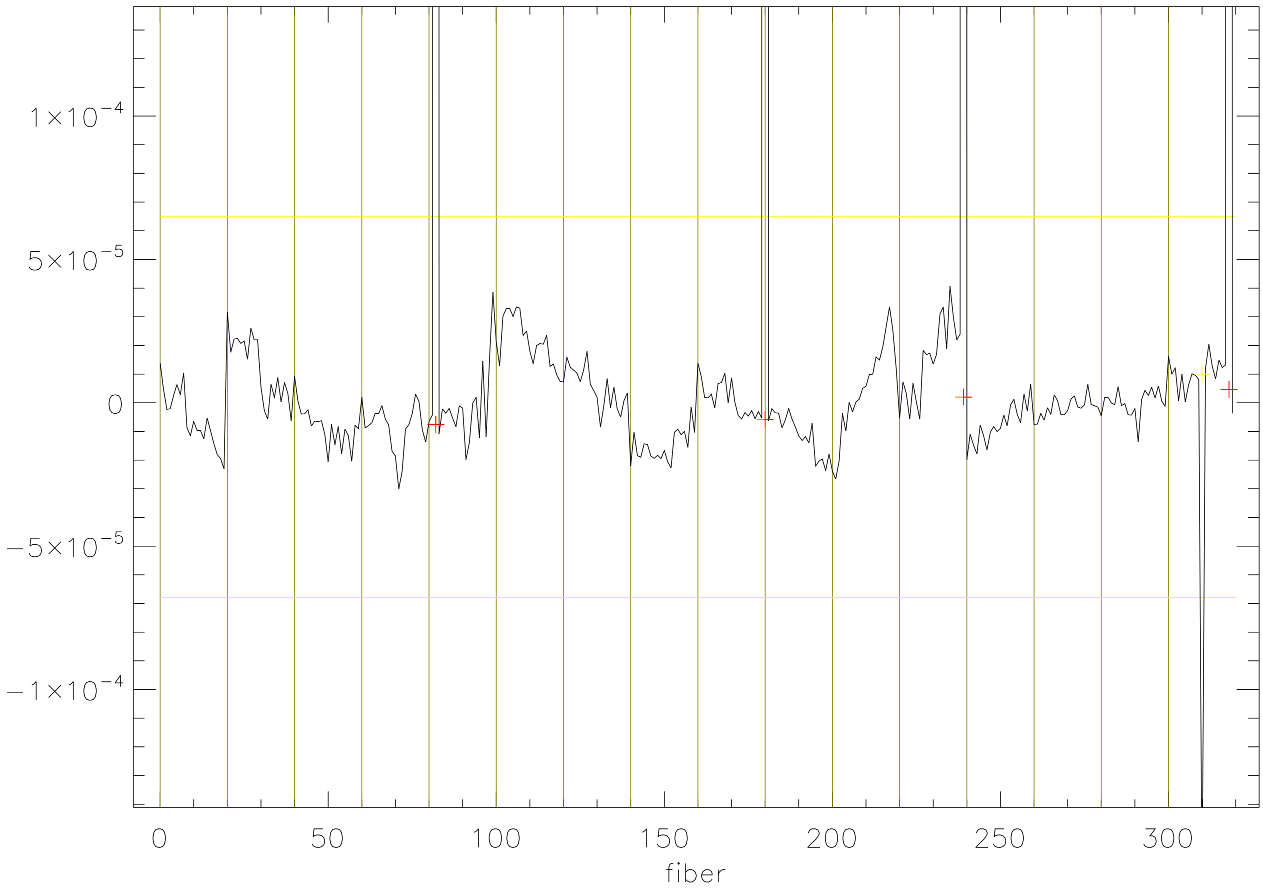
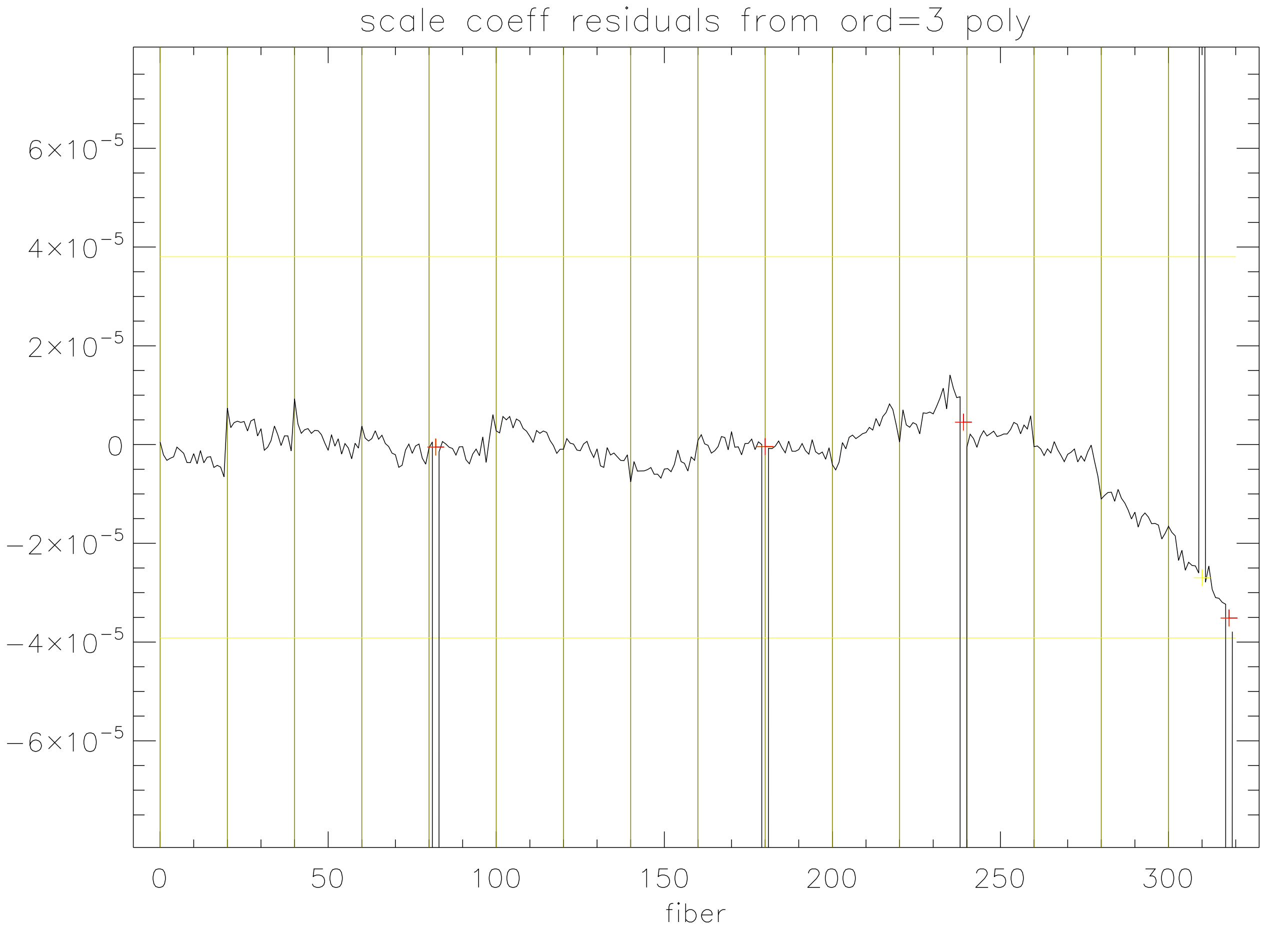
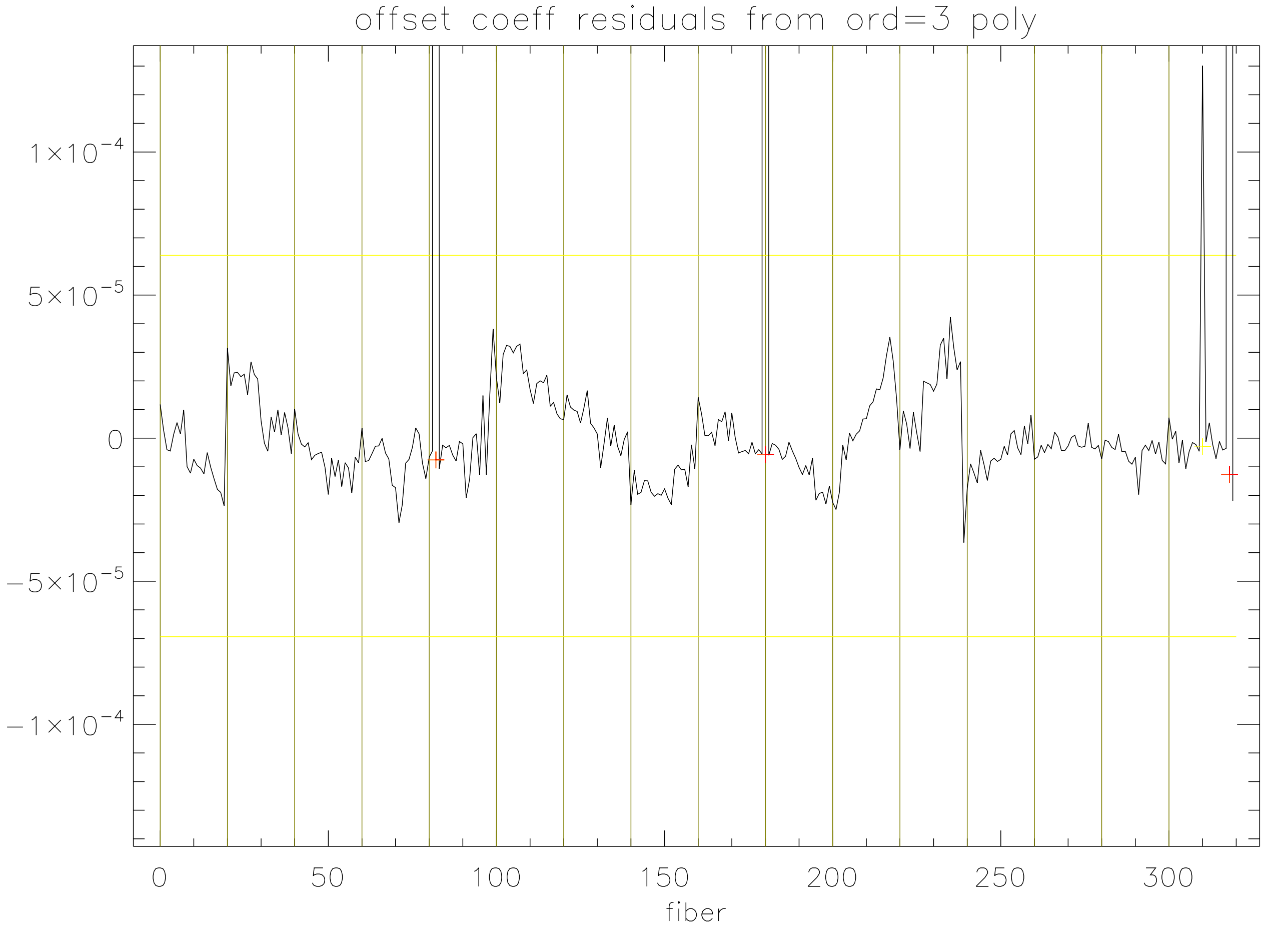
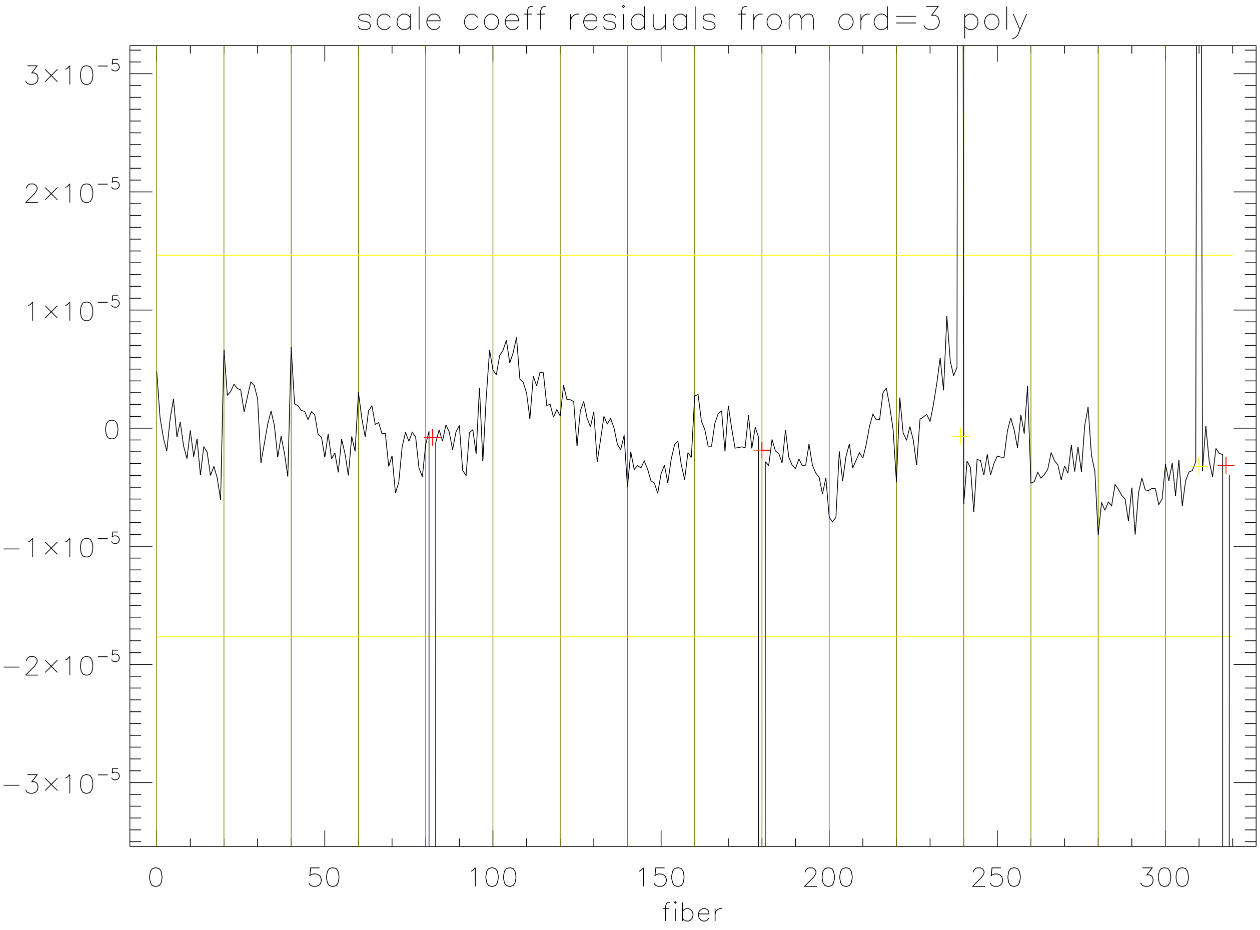
offset coeff residuals from ord=3 poly

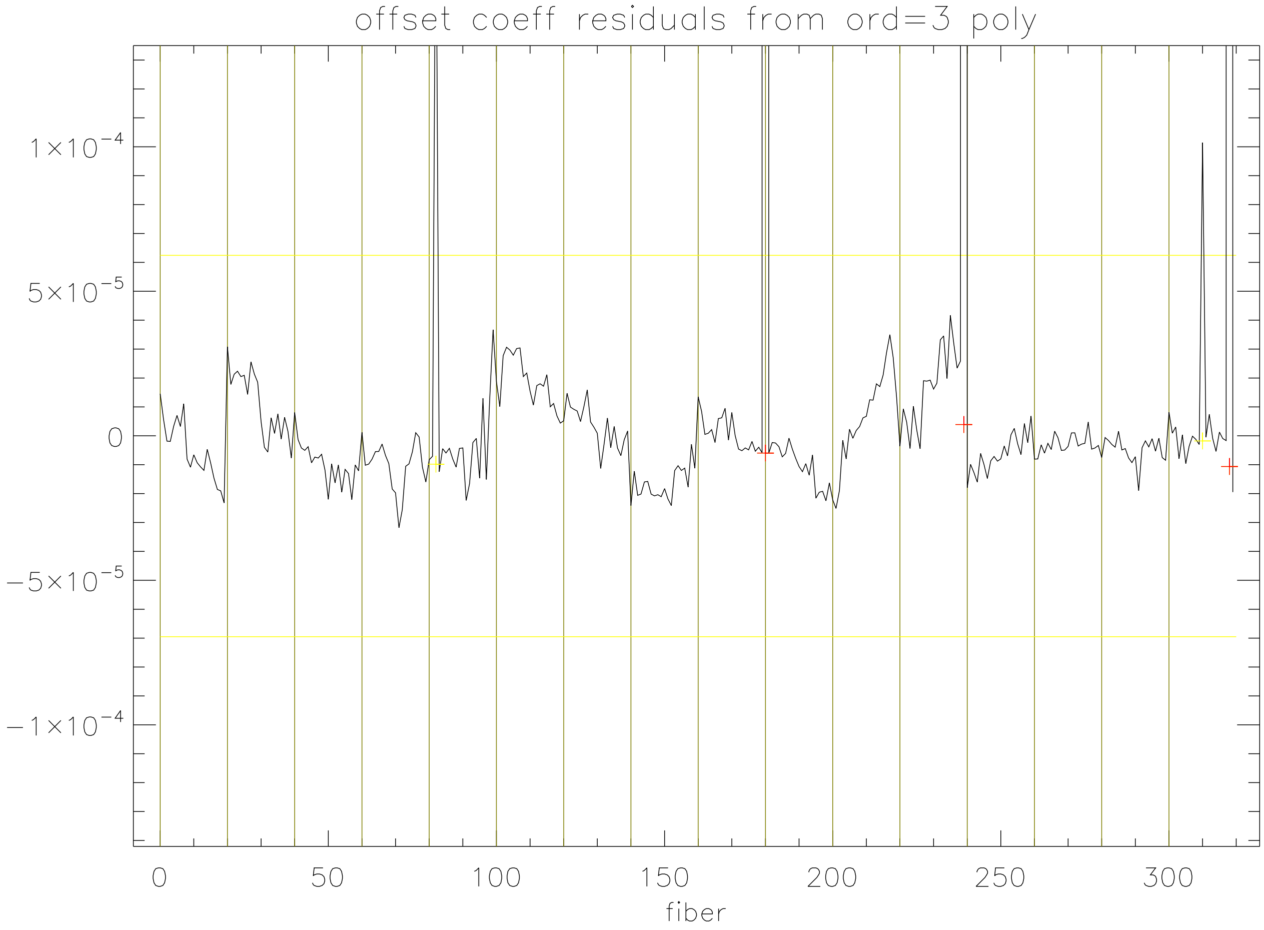


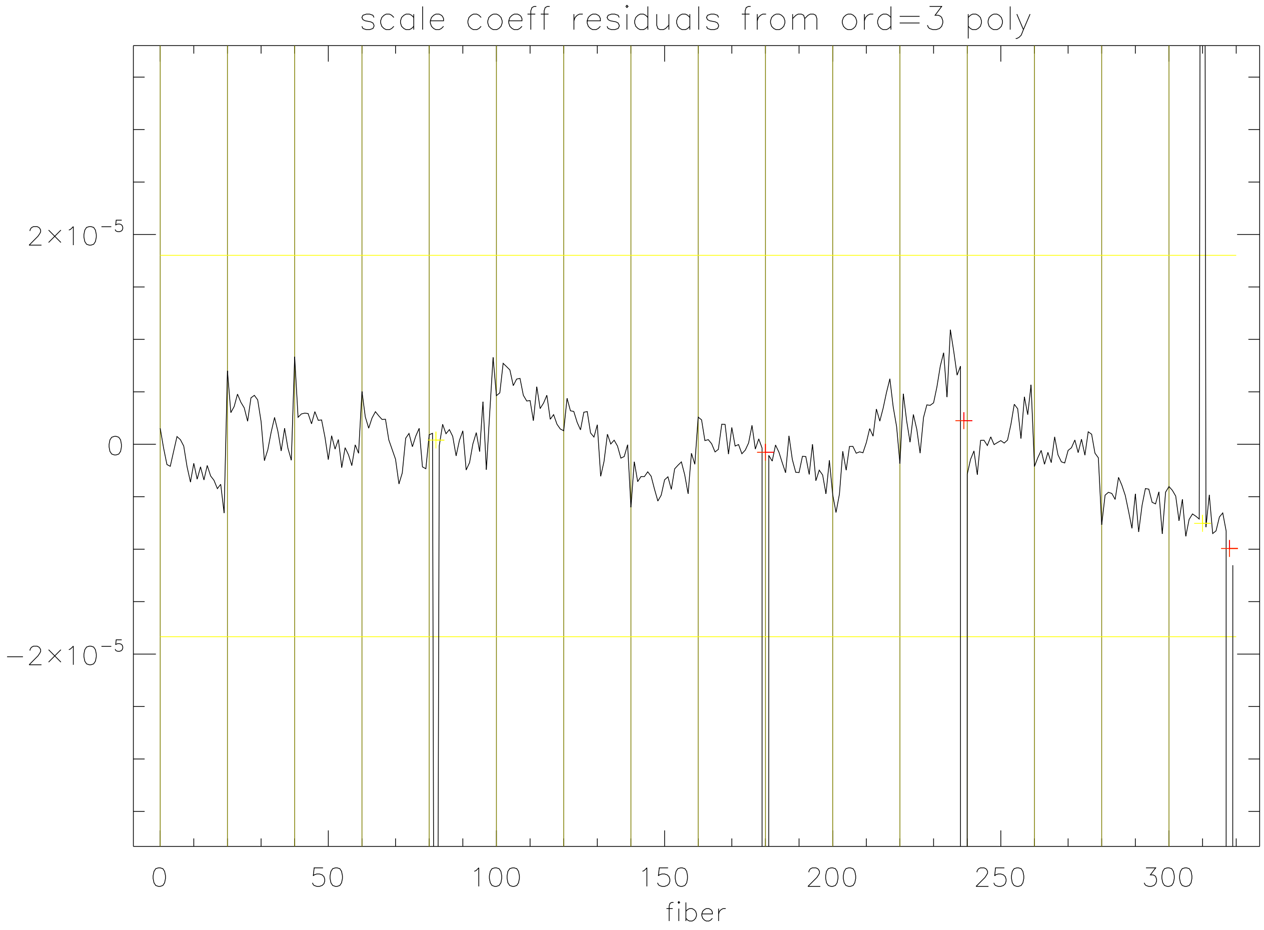


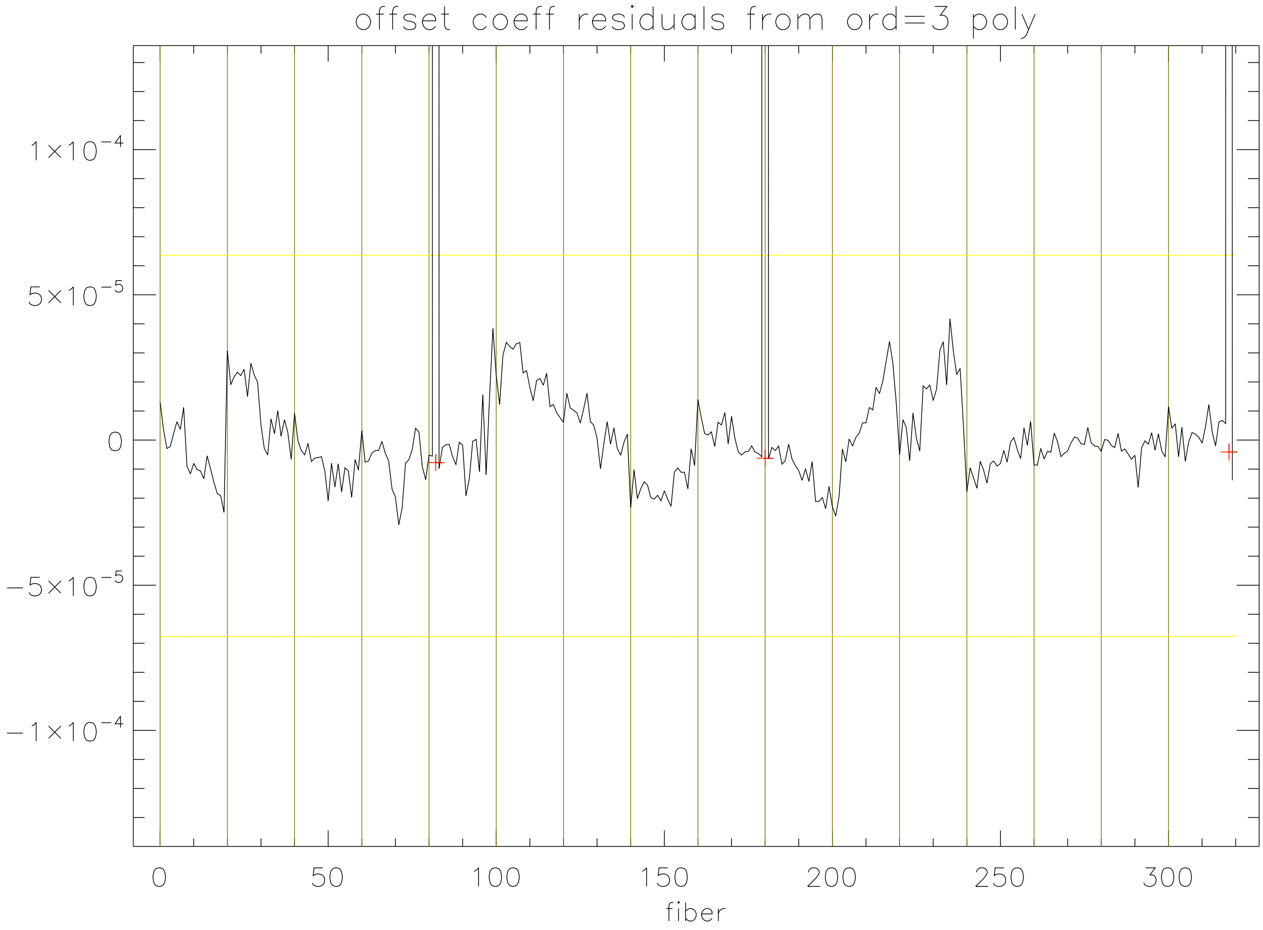
scale coeff residuals from ord=3 poly
6×10^{-5}
4×10^{-5}
2×10^{-5}
0
−2×10^{-5}
−4×10^{-5}
−6×10^{-5}
0
50
100
150
200
250
300
fiber

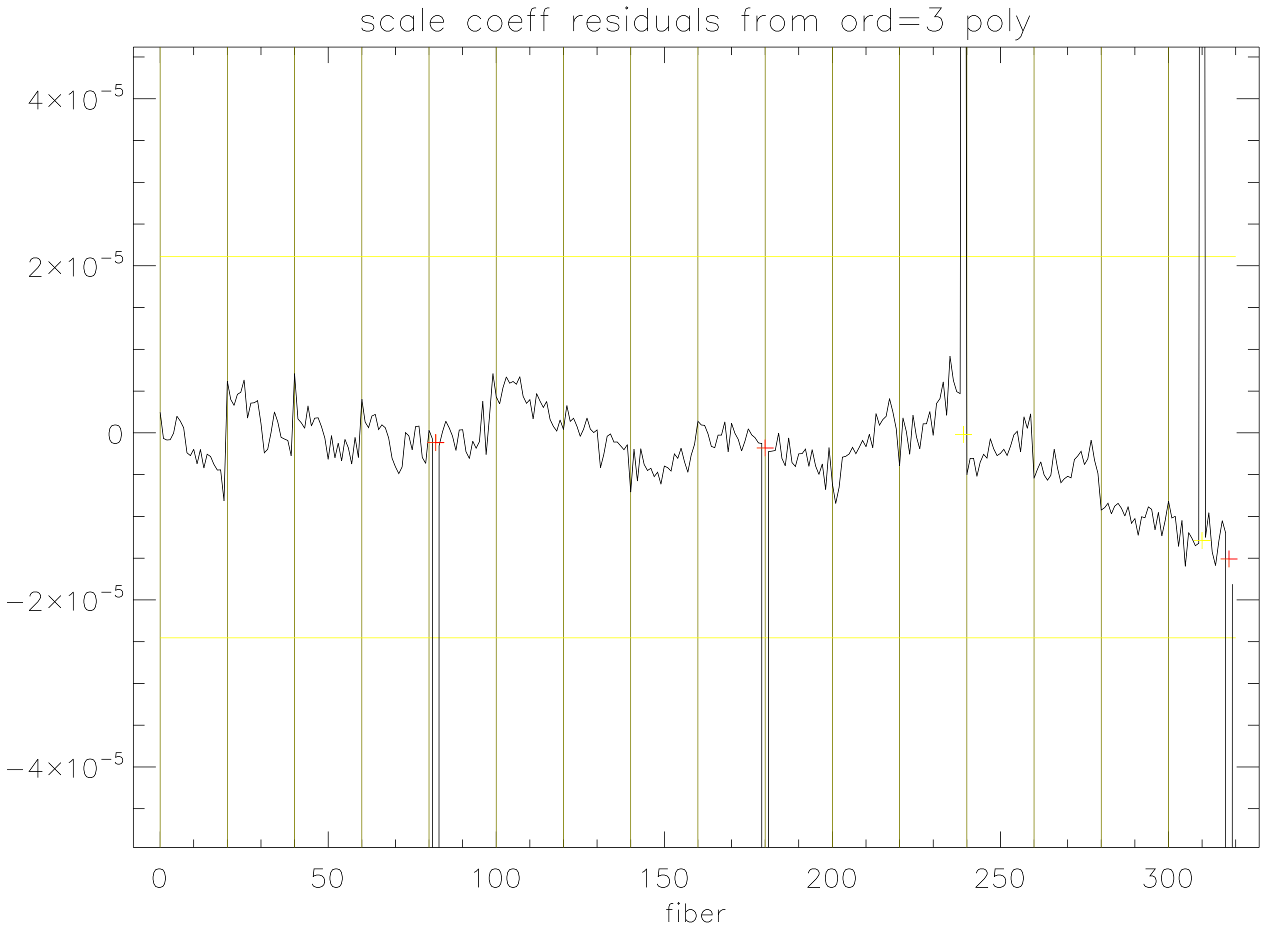

offset coeff residuals from ord=3 poly
1×10^-4
5×10^-5
0
−5×10^-5
−1×10^-4
0
50
100
150
200
250
300
fiber

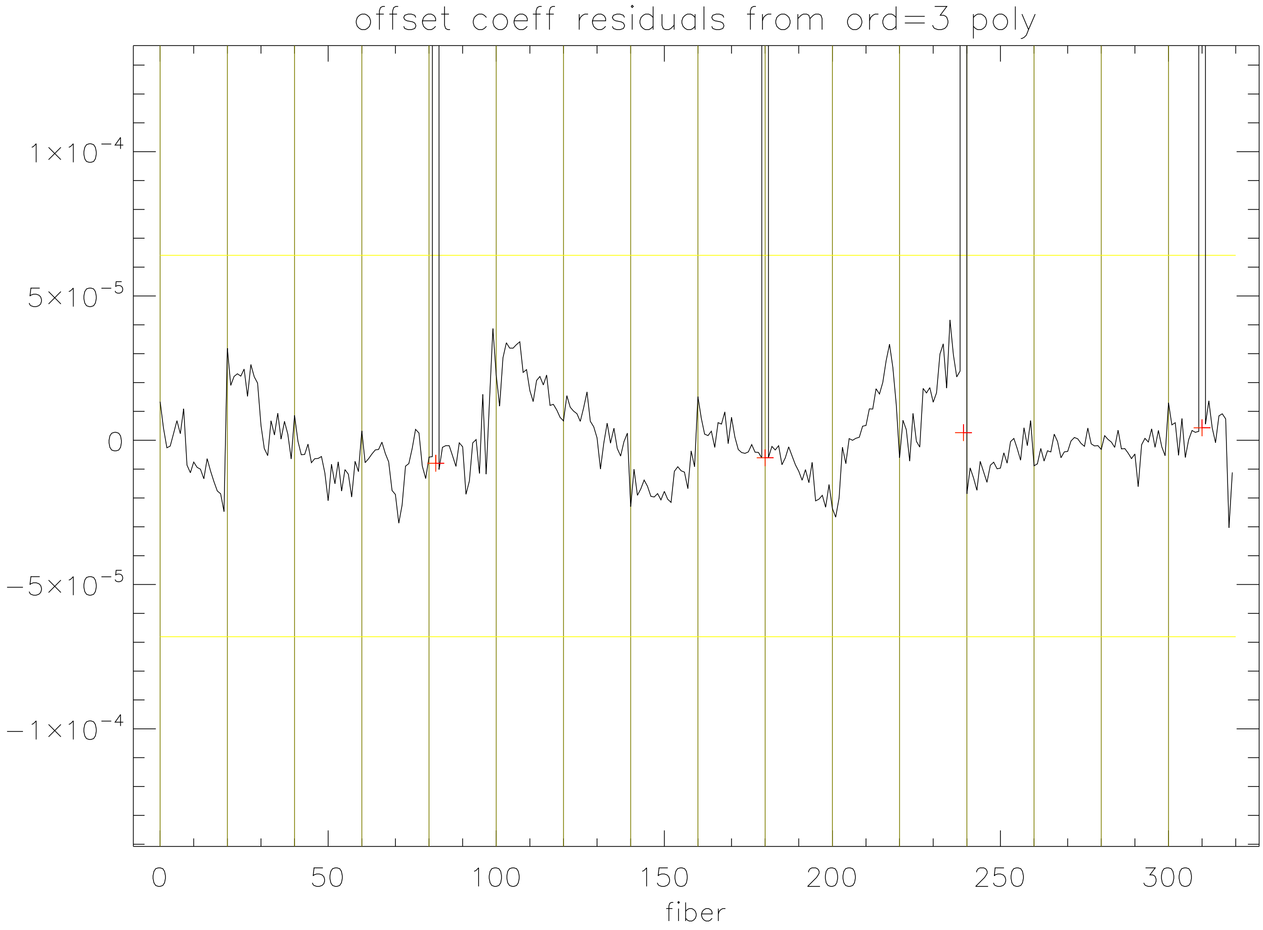

scale coeff residuals from ord=3 poly
3×10^{-5}
2×10^{-5}
1×10^{-5}
0
-1×10^{-5}
-2×10^{-5}
-3×10^{-5}
0
50
100
150
200
250
300
fiber

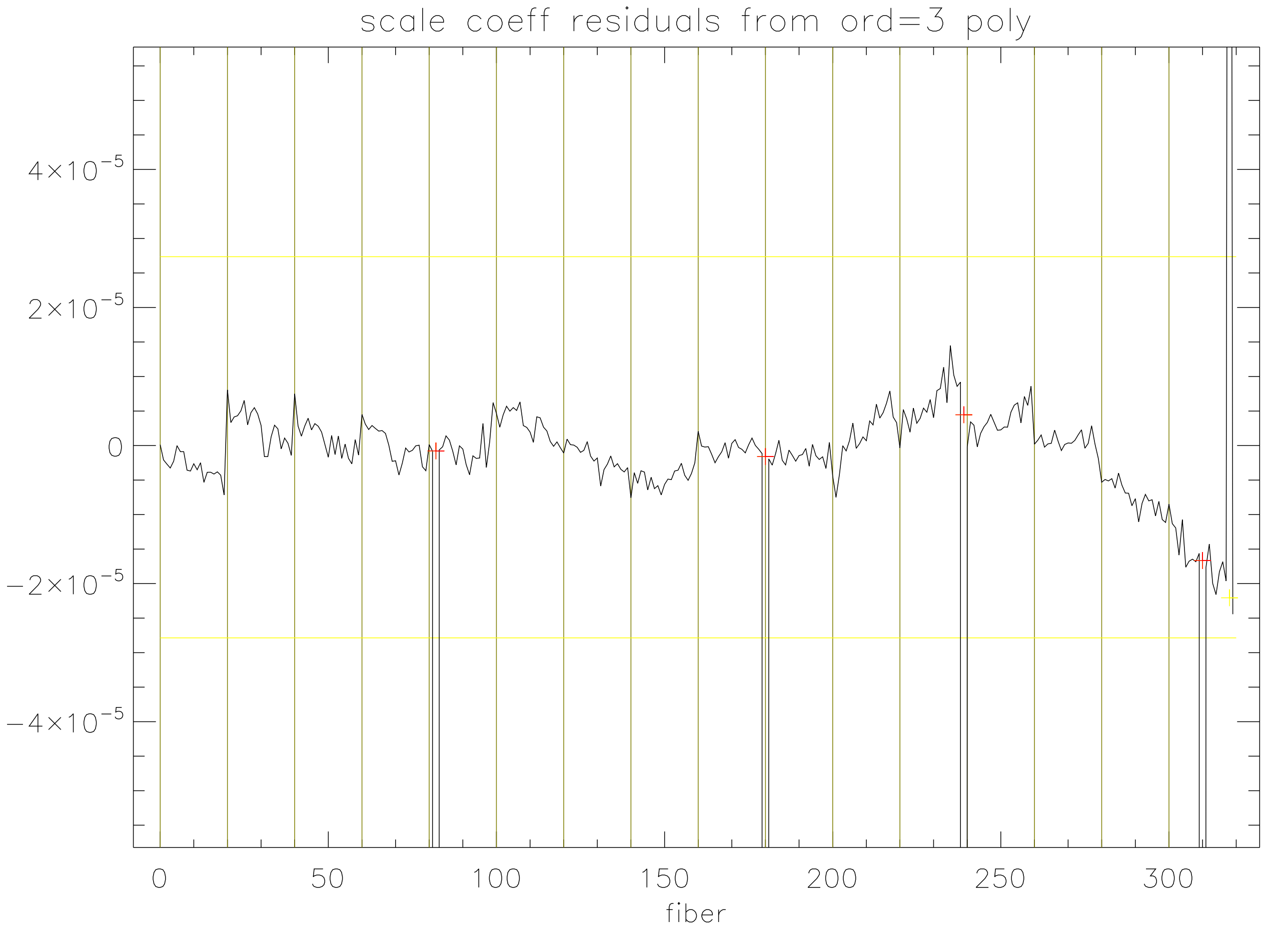

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

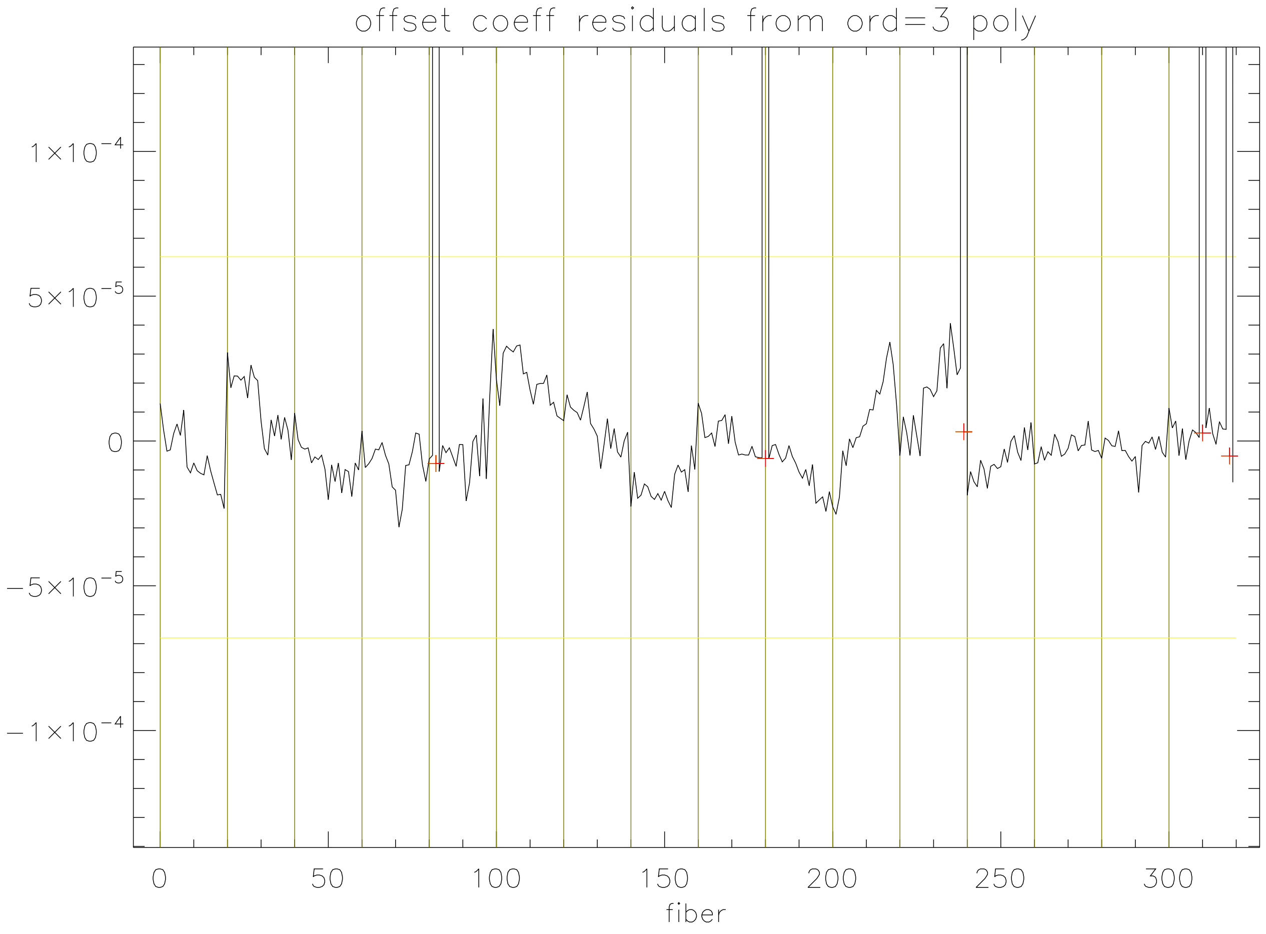

scale coeff residuals from ord=3 poly
2×10^{-5}
0
-2×10^{-5}
0
50
100
150
200
250
300
fiber

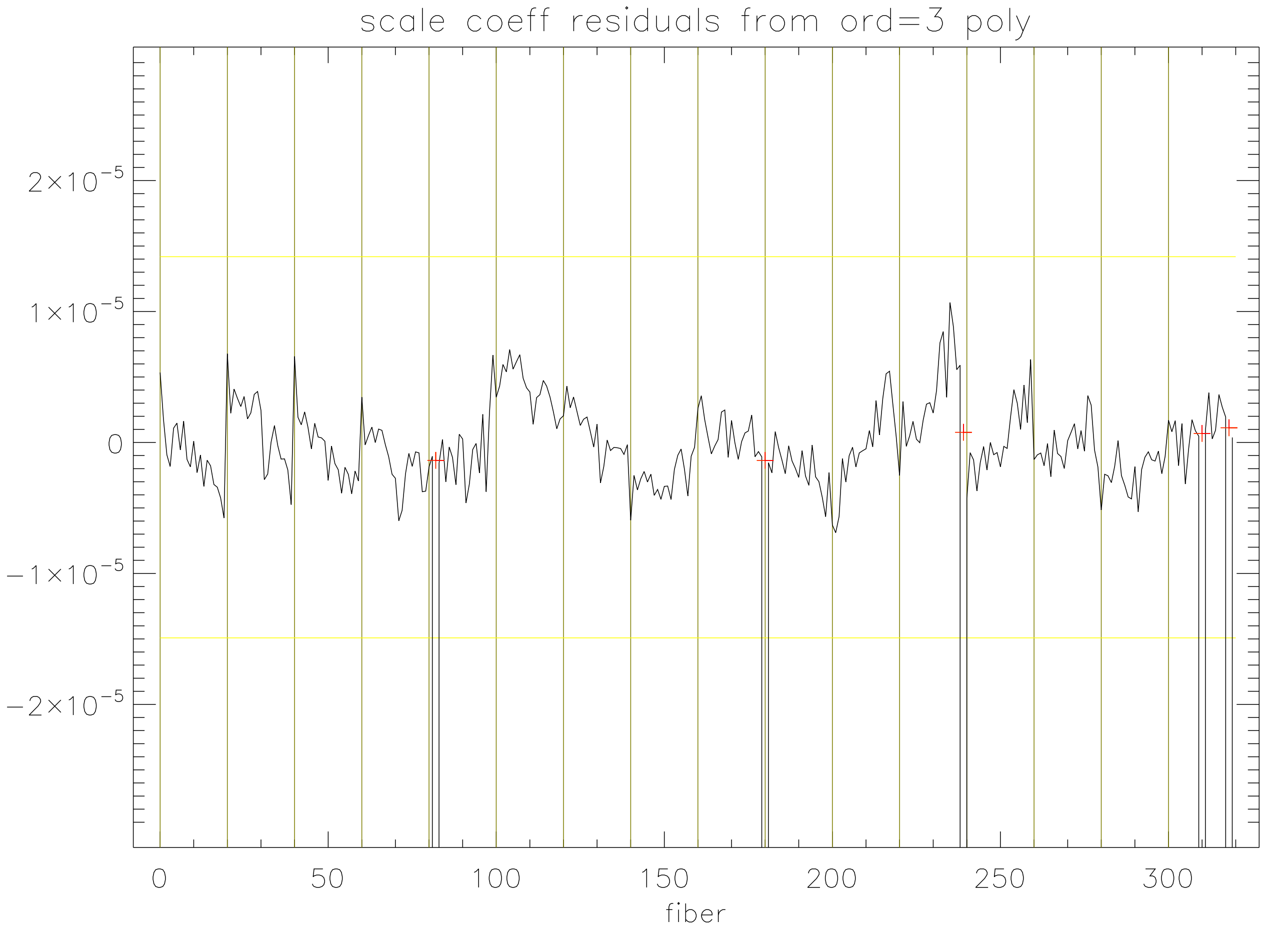

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

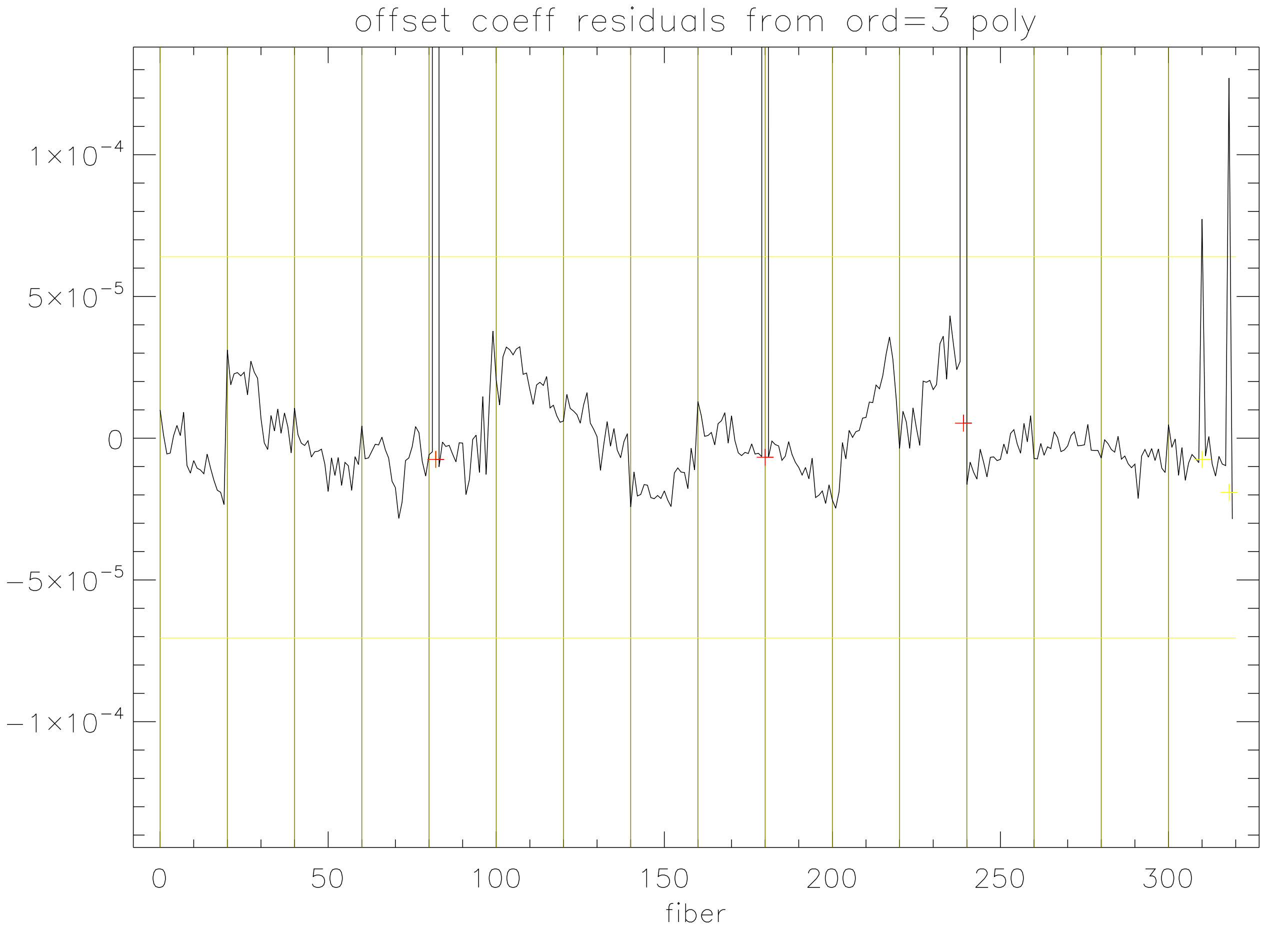

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

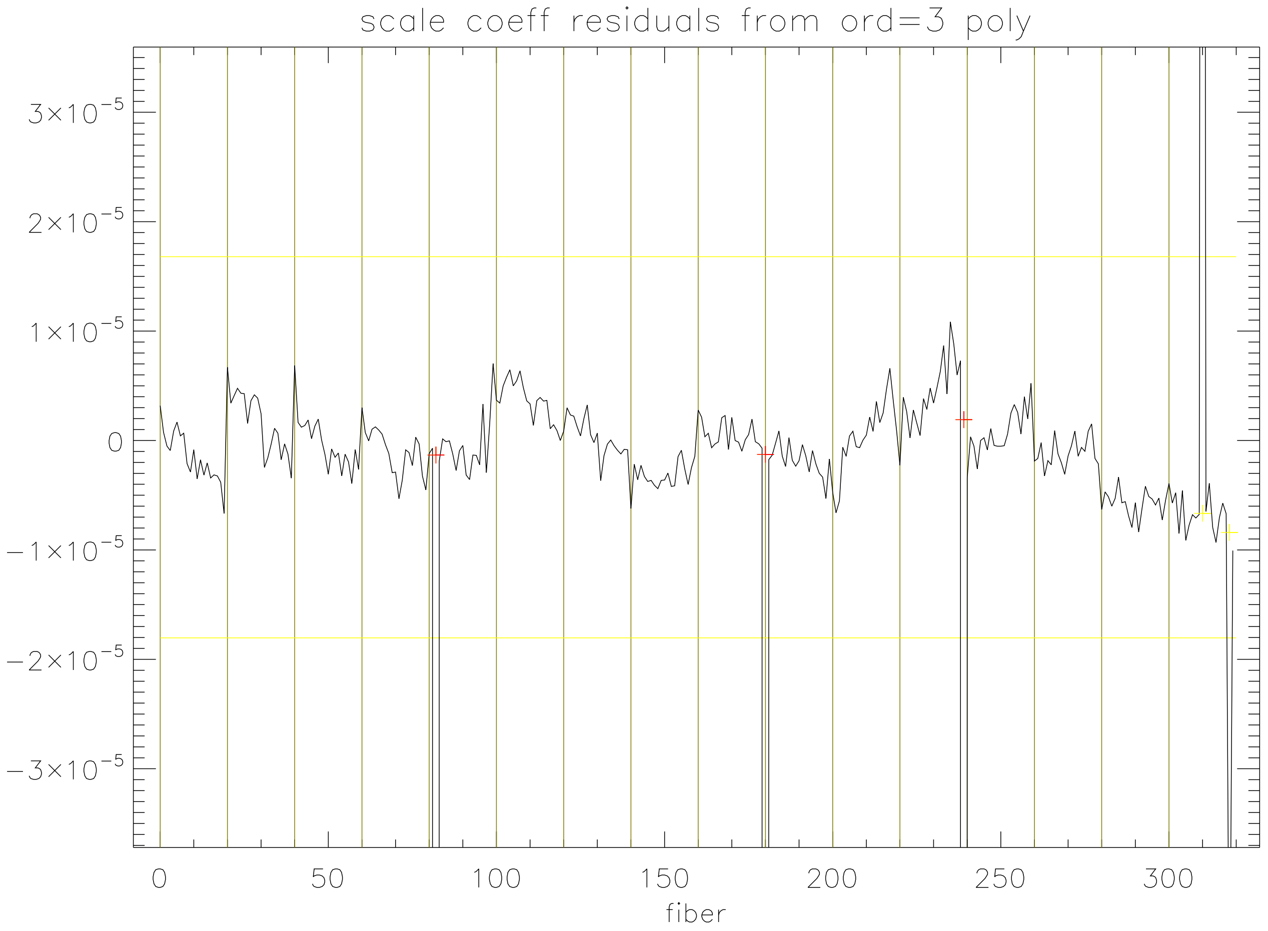

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

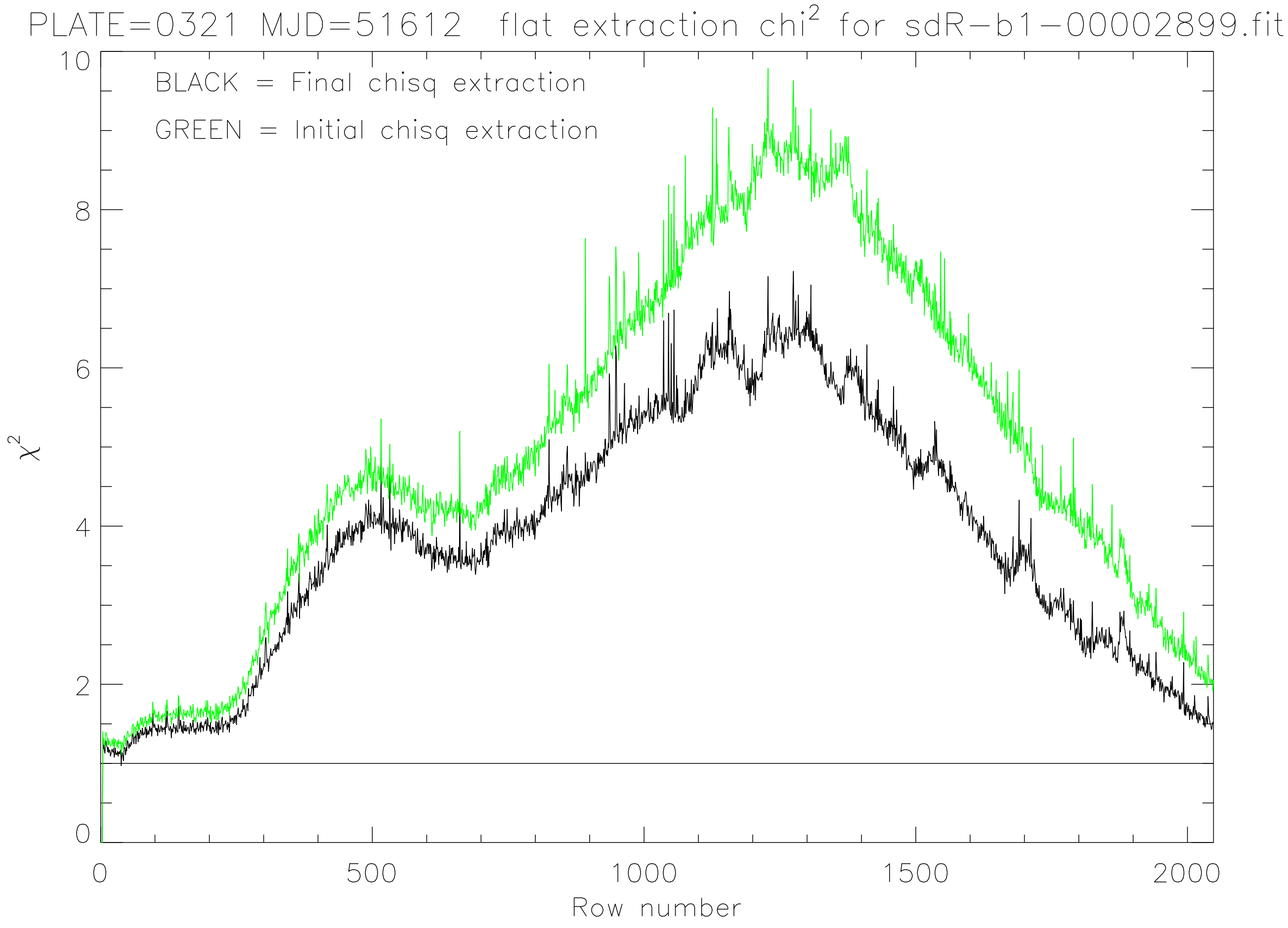

scale coeff residuals from ord=3 poly
4×10⁻⁵
2×10⁻⁵
0
−2×10⁻⁵
−4×10⁻⁵
0
50
100
150
200
250
300
fiber

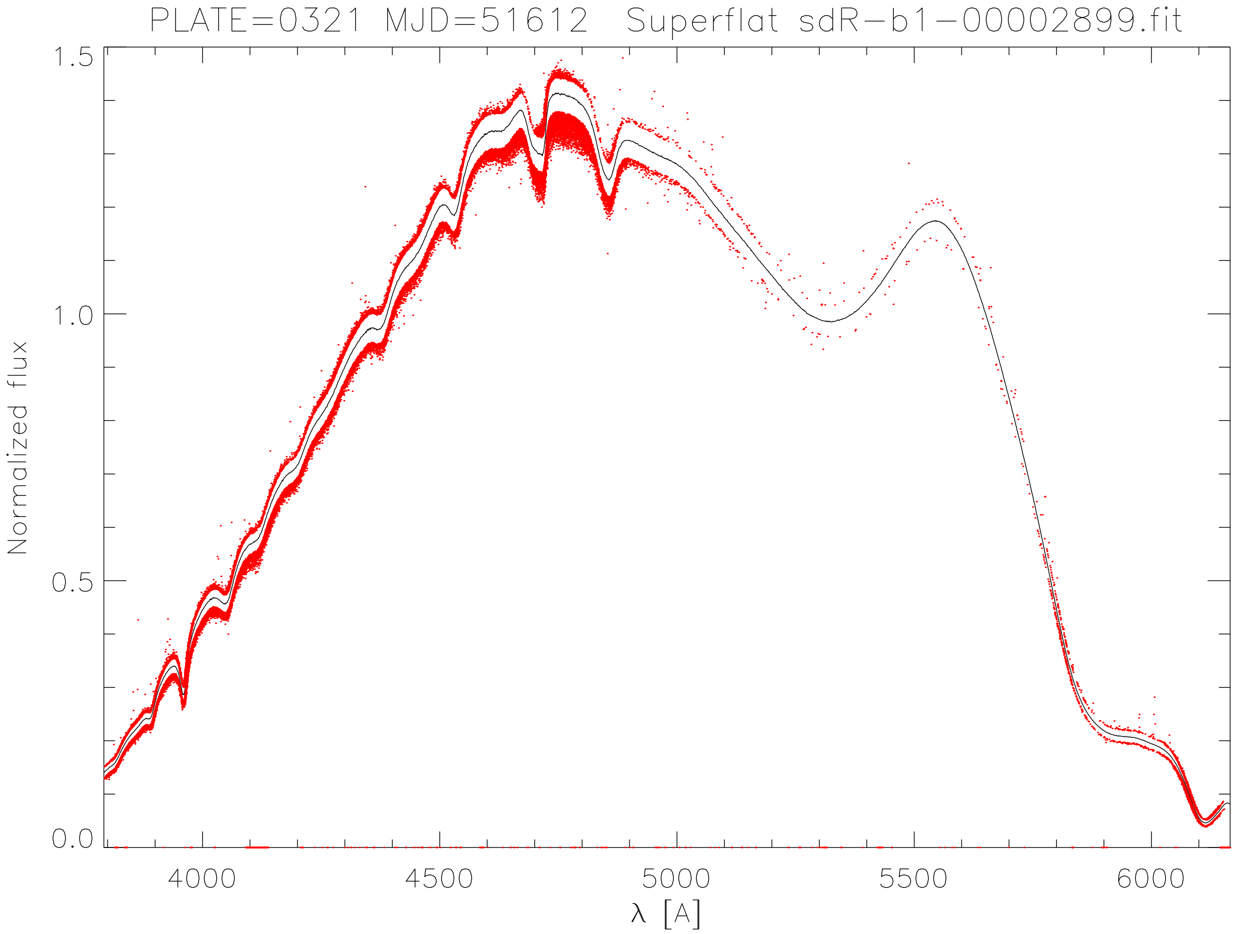

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

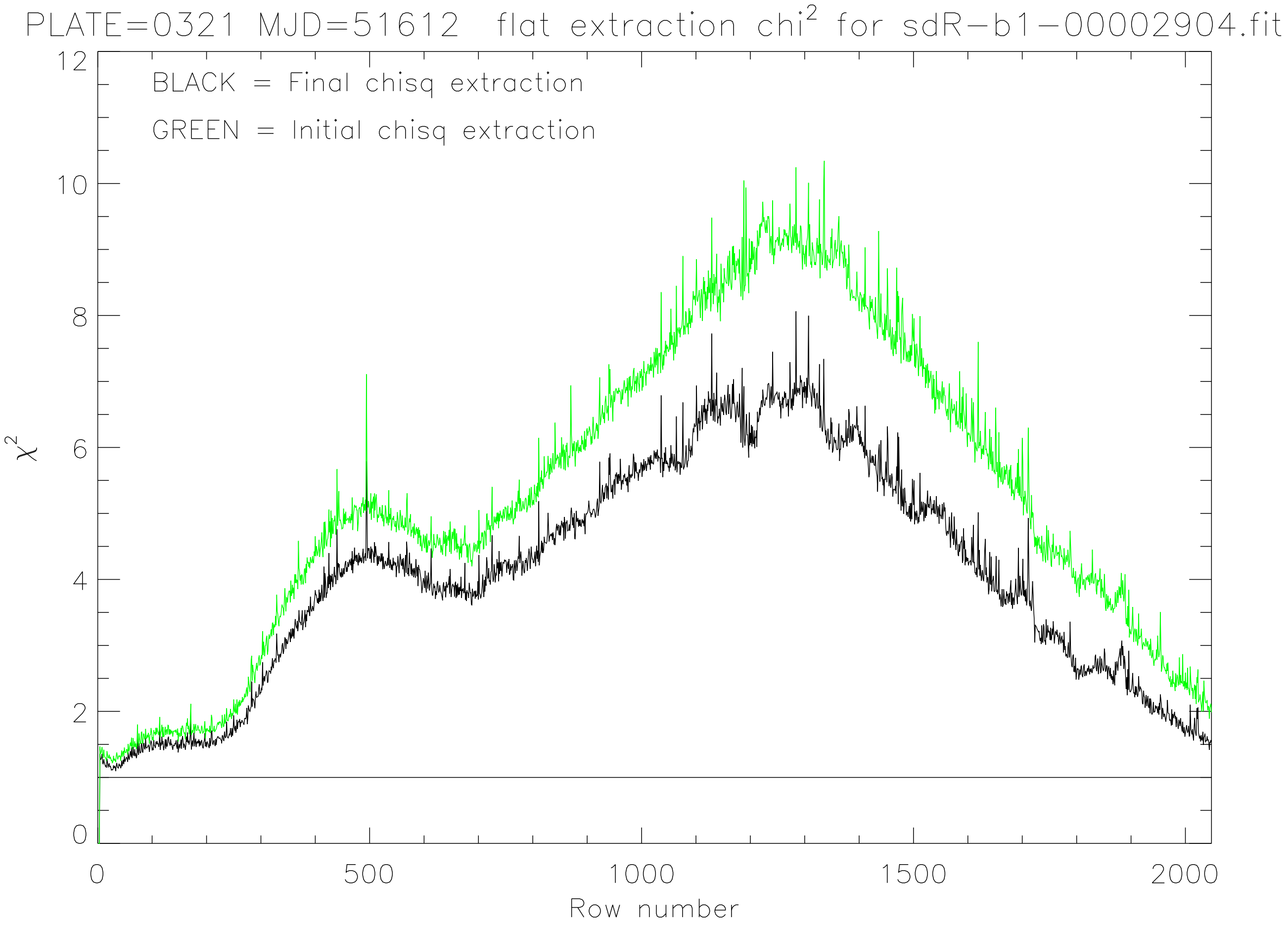

scale coeff residuals from ord=3 poly
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
0
50
100
150
200
250
300
fiber

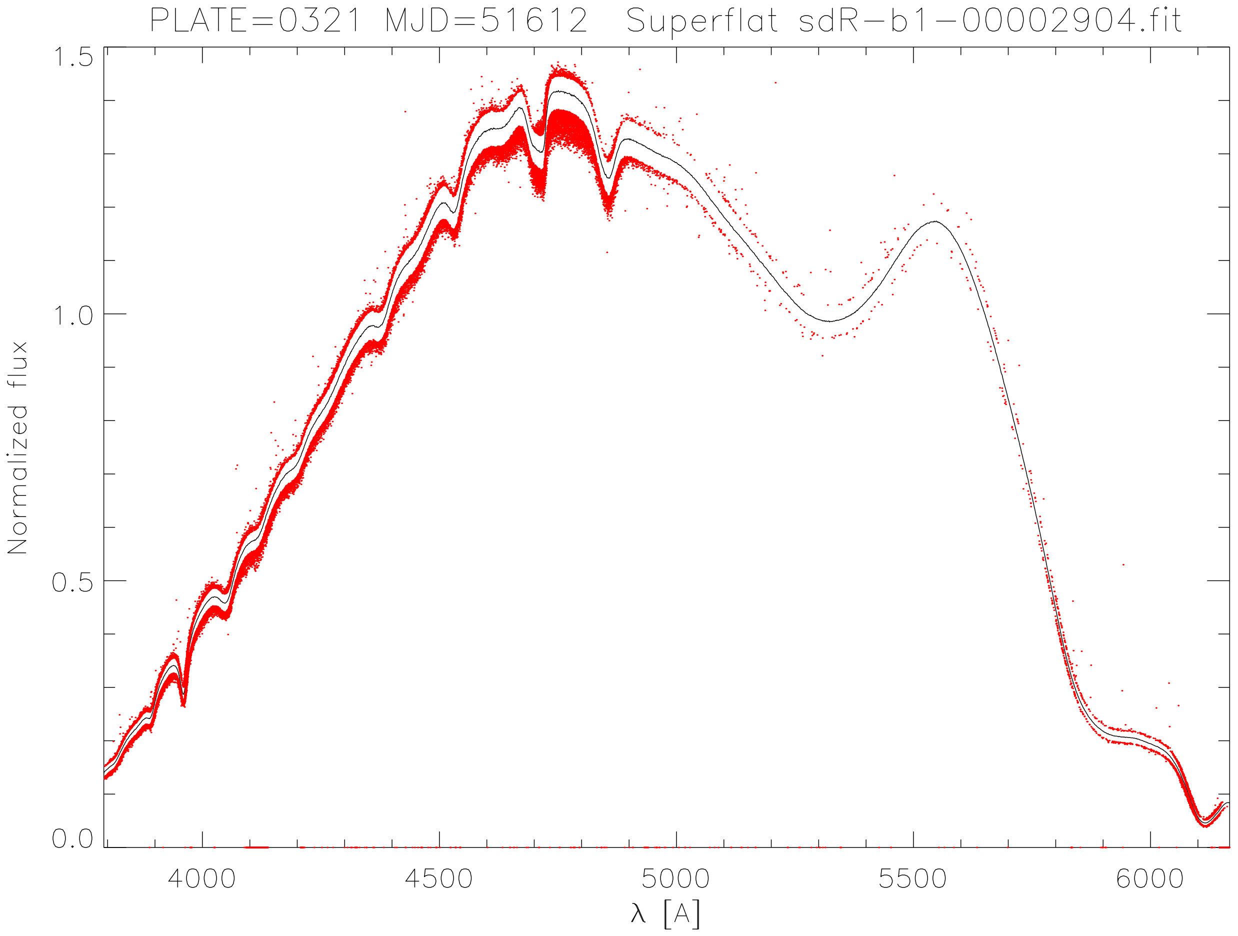

offset coeff residuals from ord=3 poly
1×10⁻⁴
5×10⁻⁵
0
−5×10⁻⁵
−1×10⁻⁴
0
50
100
150
200
250
300
fiber

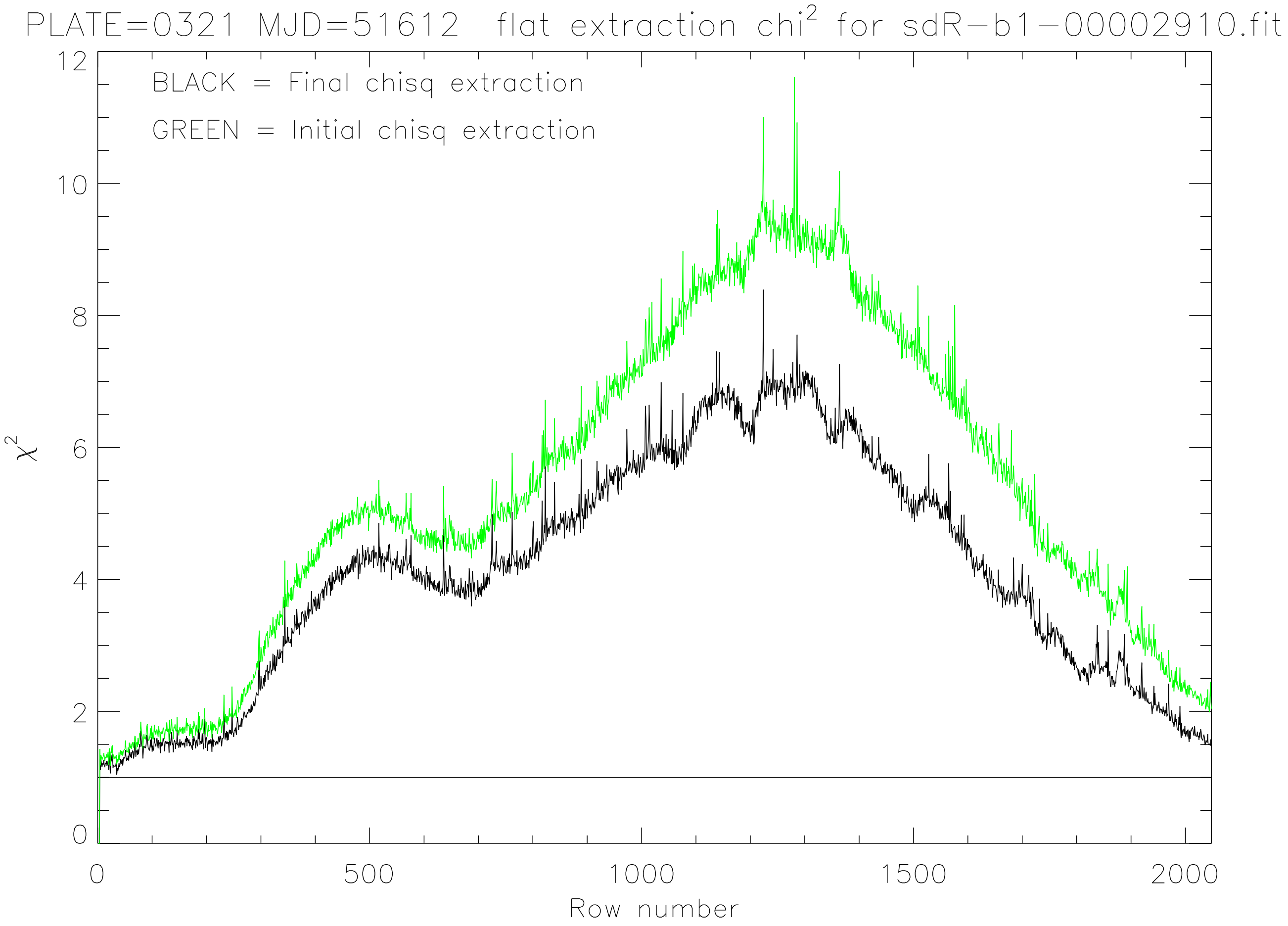

scale coeff residuals from ord=3 poly
3×10⁻⁵
2×10⁻⁵
1×10⁻⁵
0
−1×10⁻⁵
−2×10⁻⁵
−3×10⁻⁵
0
50
100
150
200
250
300
fiber


PLATE=0321 MJD=51612 flat extraction chi^2 for sdR-b1-00002899.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
0
500
1000
1500
2000
Row number

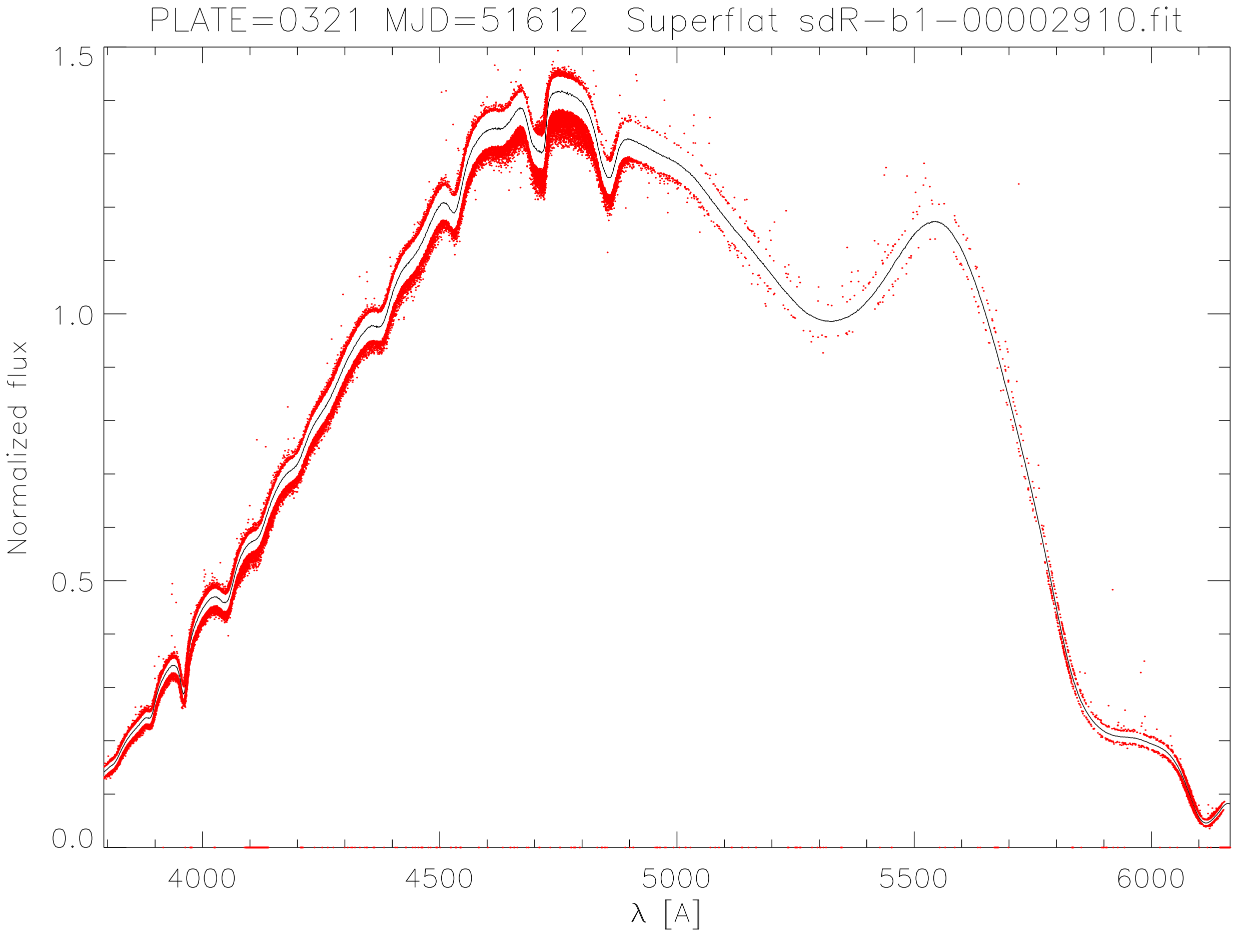

PLATE=0321 MJD=51612 Superflat sdR-b1-00002899.fit
Normalized flux
λ [A]
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000

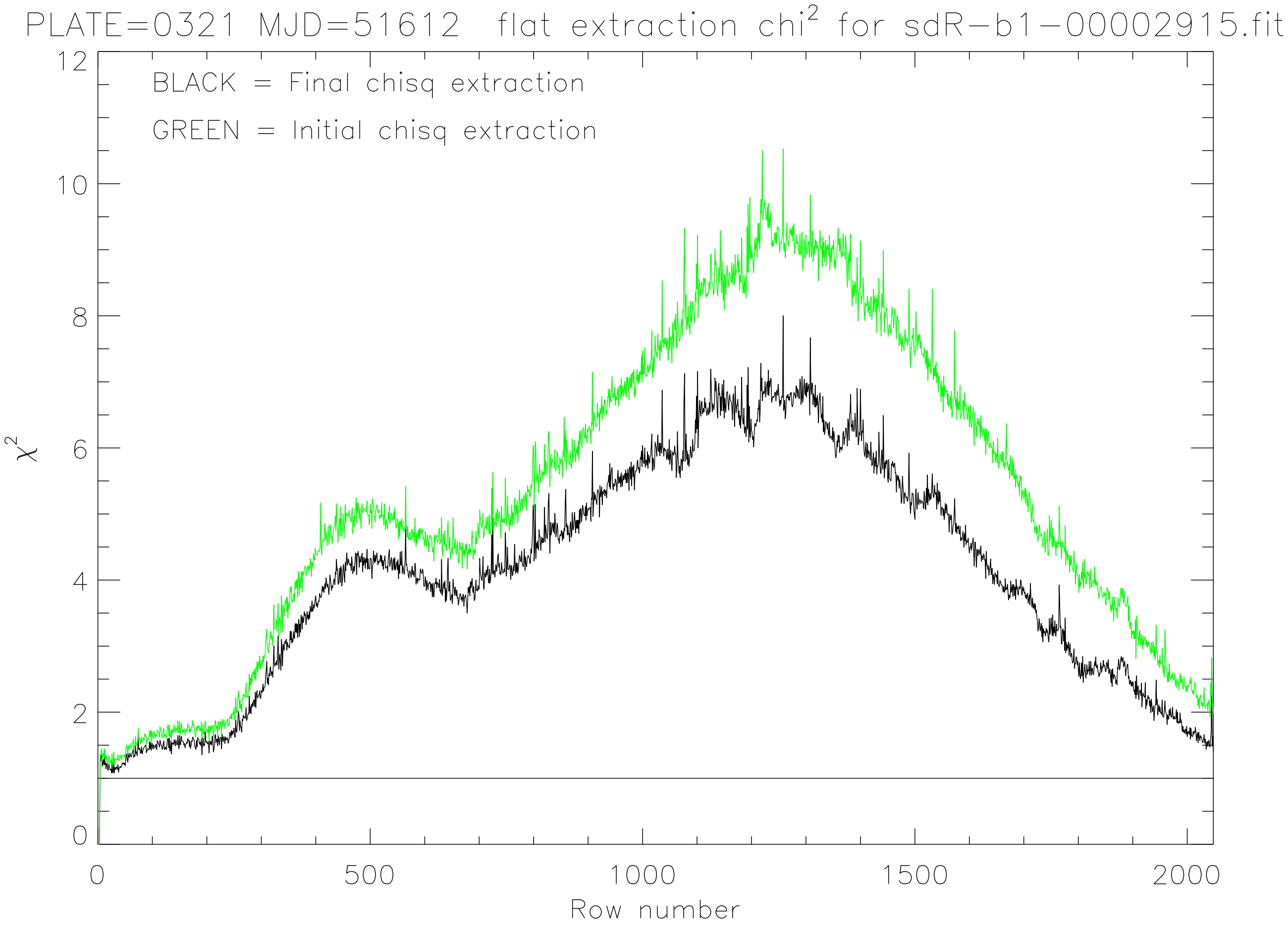

PLATE=0321 MJD=51612 flat extraction chi^2 for sdR-b1-00002904.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
0
500
1000
1500
2000
Row number

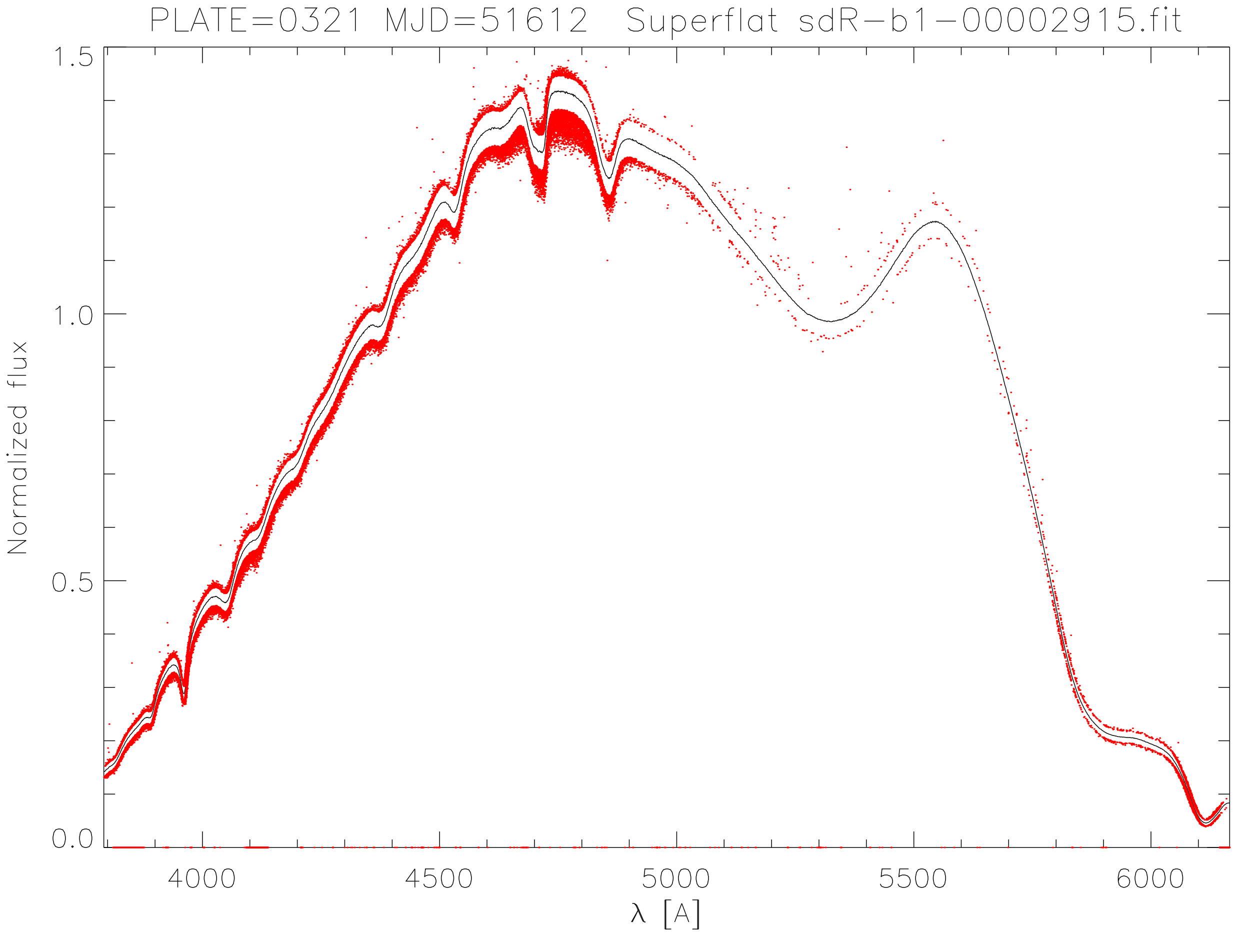

PLATE=0321 MJD=51612 Superflat sdR-b1-00002904.fit
Normalized flux
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000
λ [A]

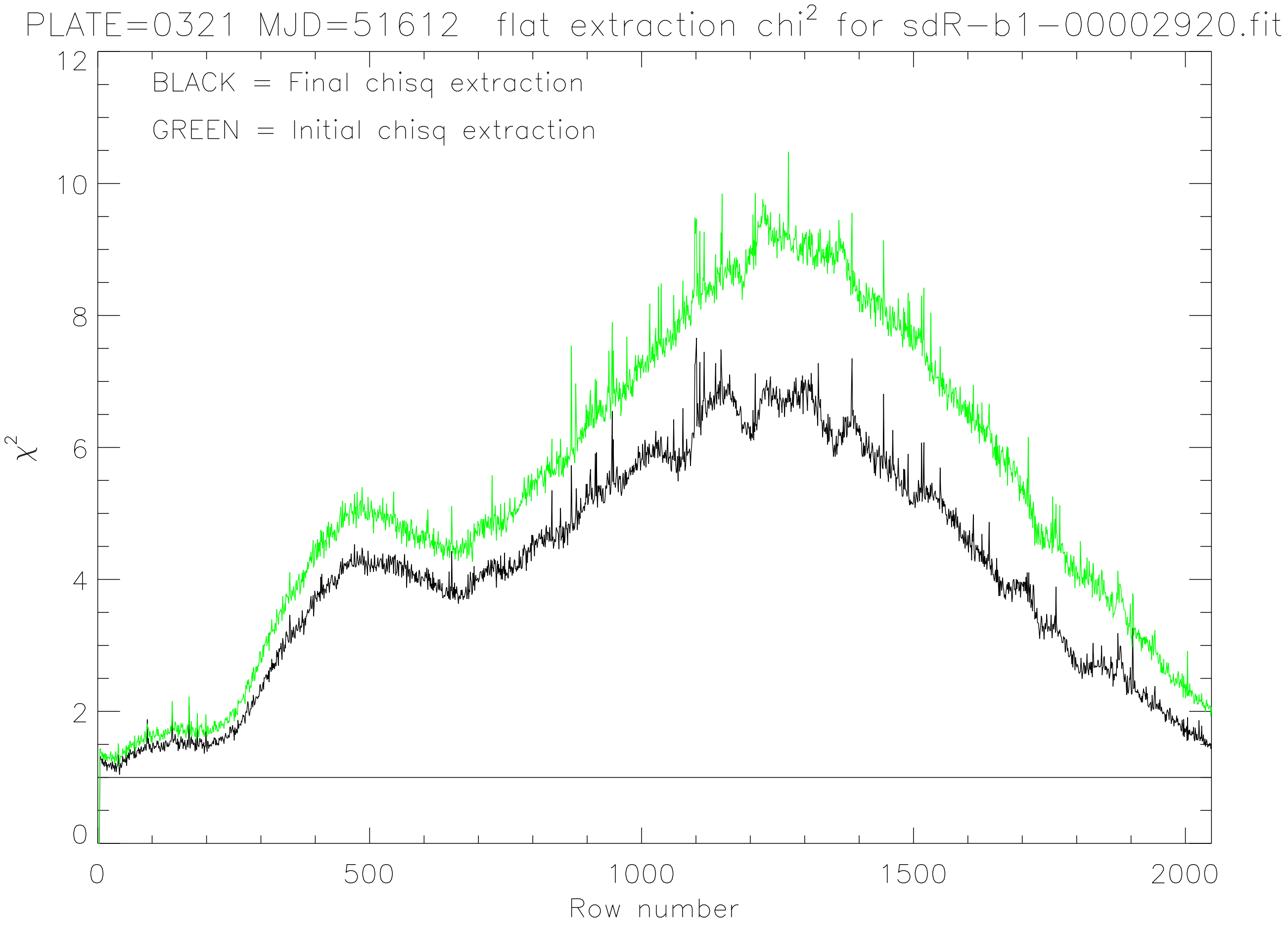


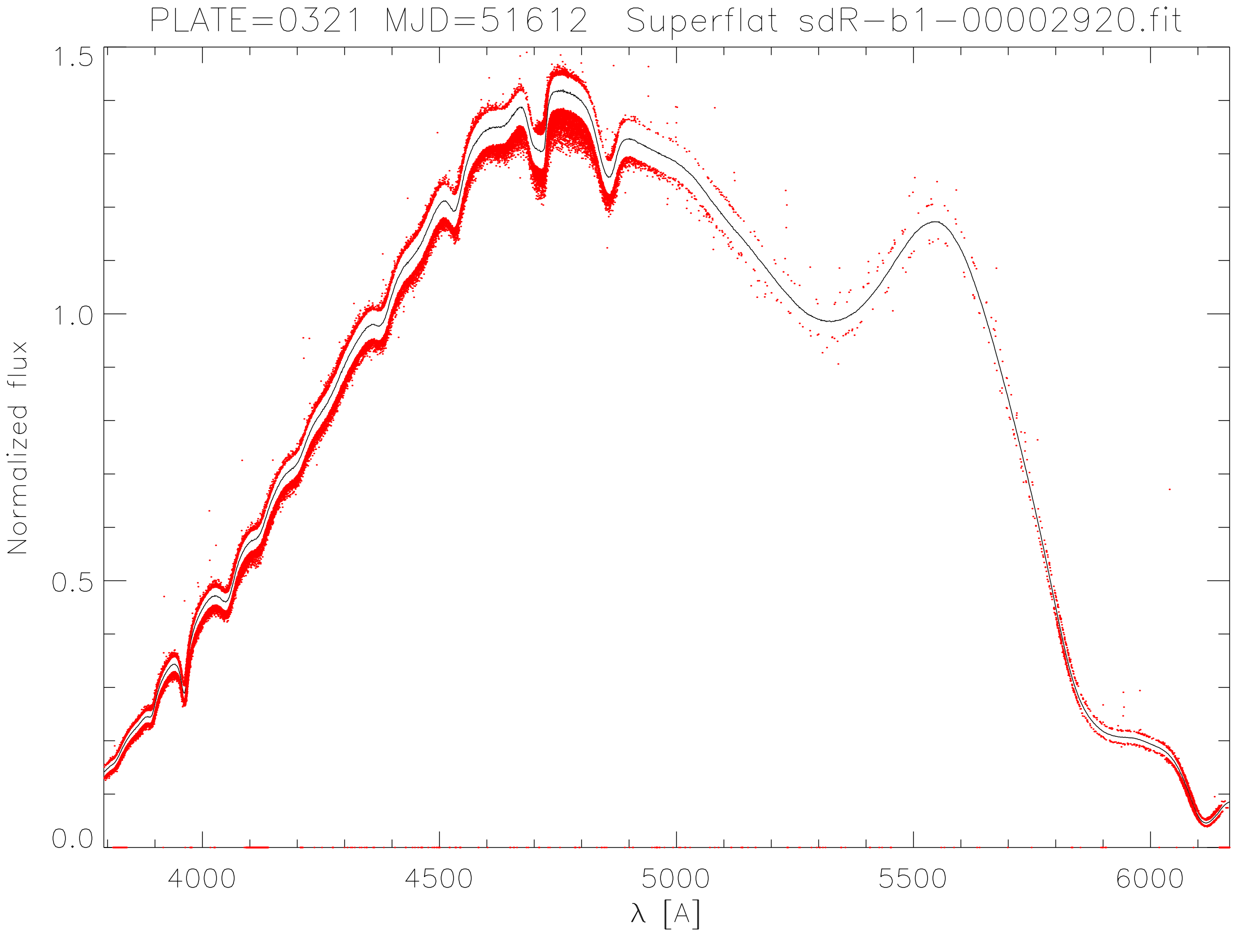
PLATE=0321 MJD=51612 flat extraction chi^2 for sdR-b1-00002910.fit

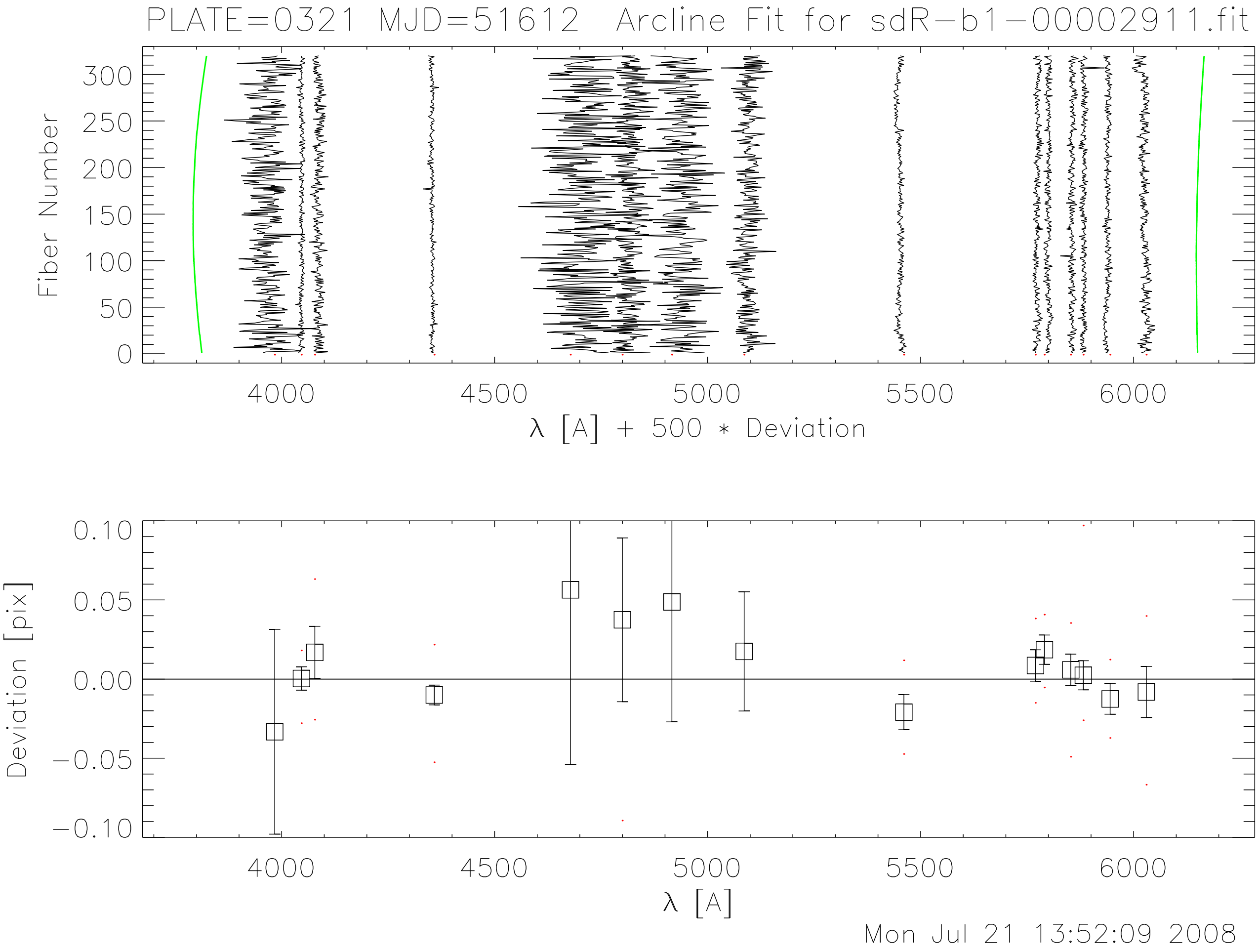

PLATE=0321 MJD=51612 Superflat sdR-b1-00002910.fit
Normalized flux
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]

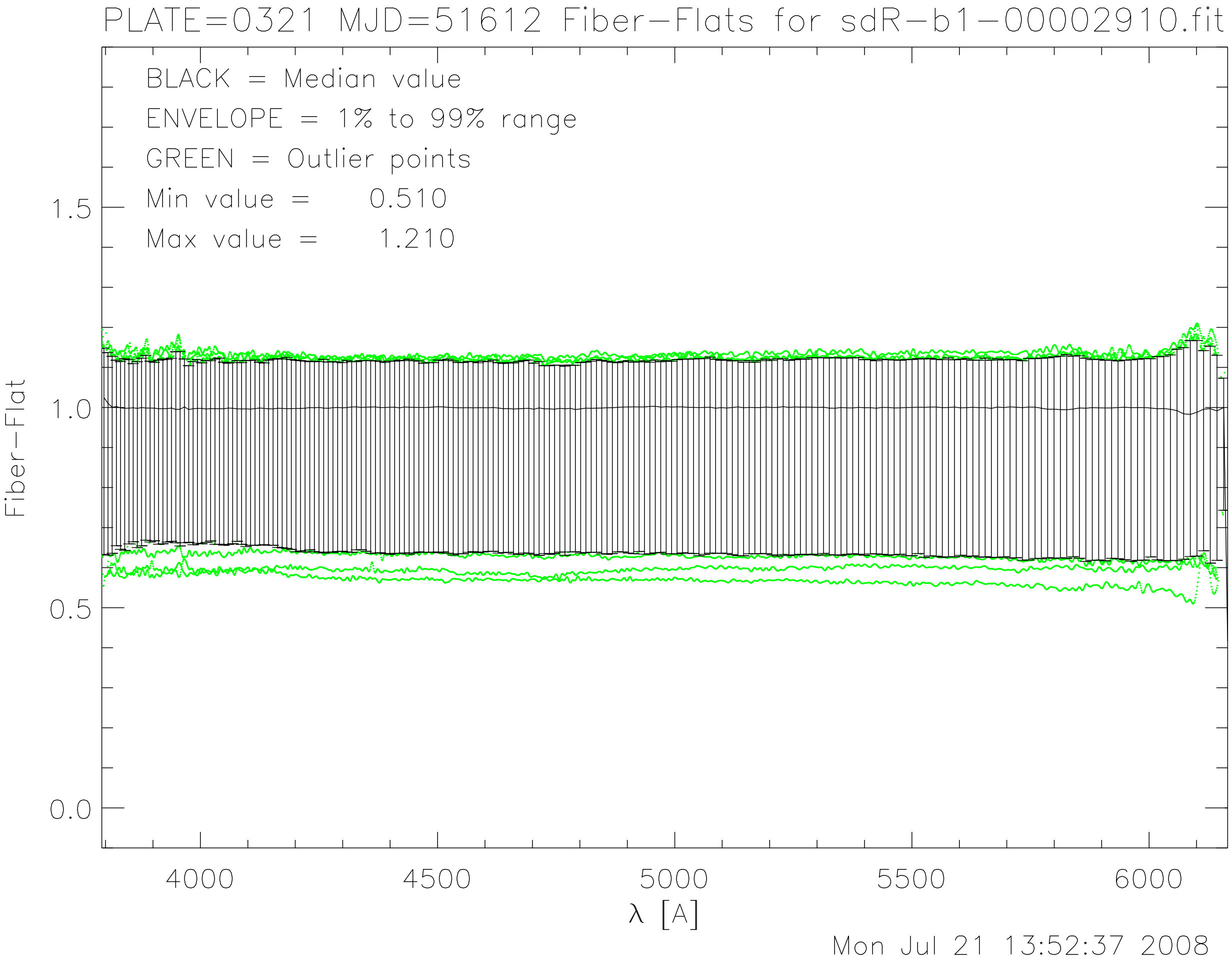

PLATE=0321 MJD=51612 flat extraction chi^2 for sdR-b1-00002915.fit
BLACK = Final chisq extraction
GREEN = Initial chisq extraction
χ^2
0
2
4
6
8
10
12
0
500
1000
1500
2000
Row number

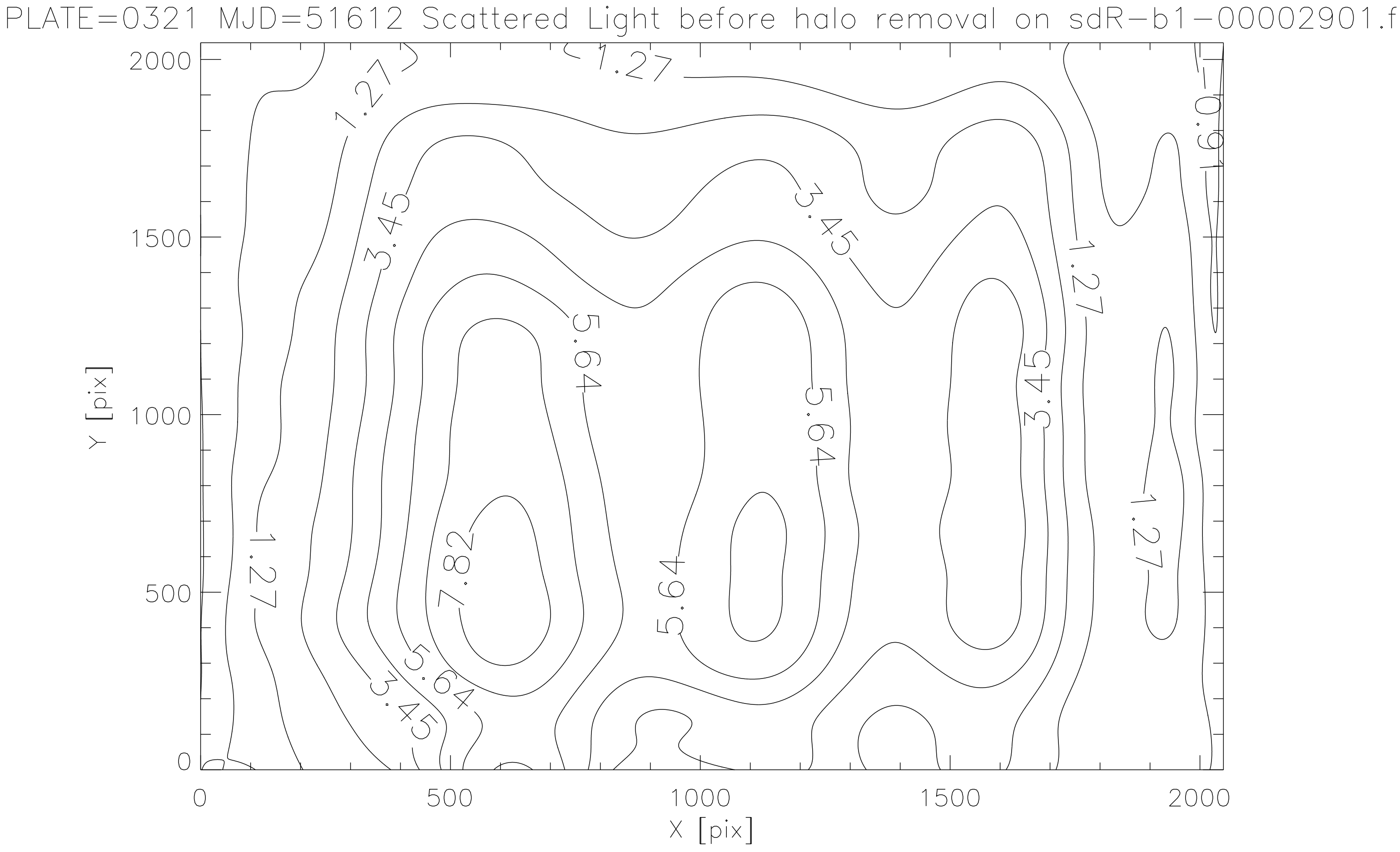

PLATE=0321 MJD=51612 Superflat sdR-b1-00002915.fit
Normalized flux
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000
λ [A]


PLATE=0321 MJD=51612 flat extraction chi^2 for sdR-b1-00002920.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

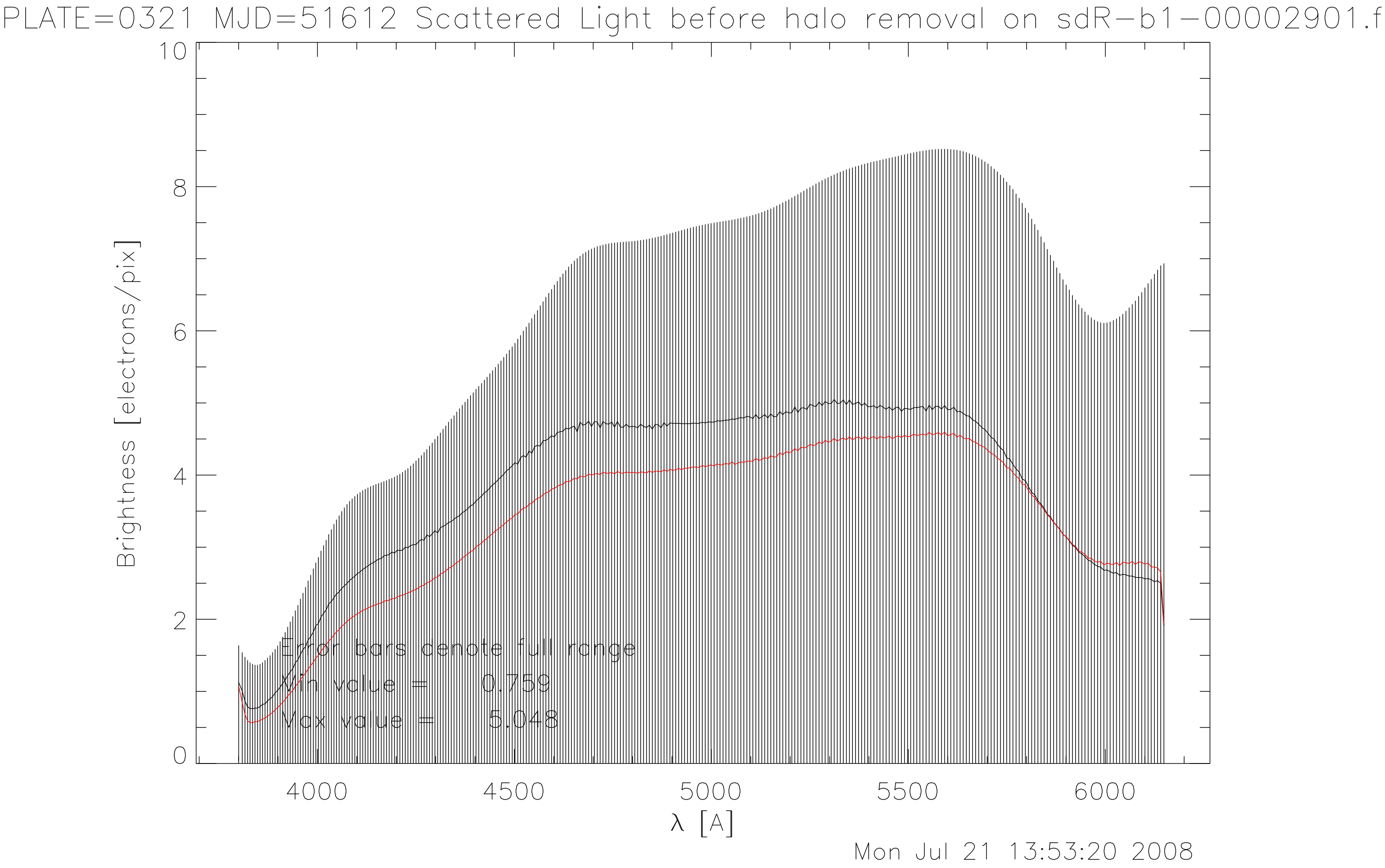

PLATE=0321 MJD=51612 Superflat sdR-b1-00002920.fit
Normalized flux
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000
λ [A]

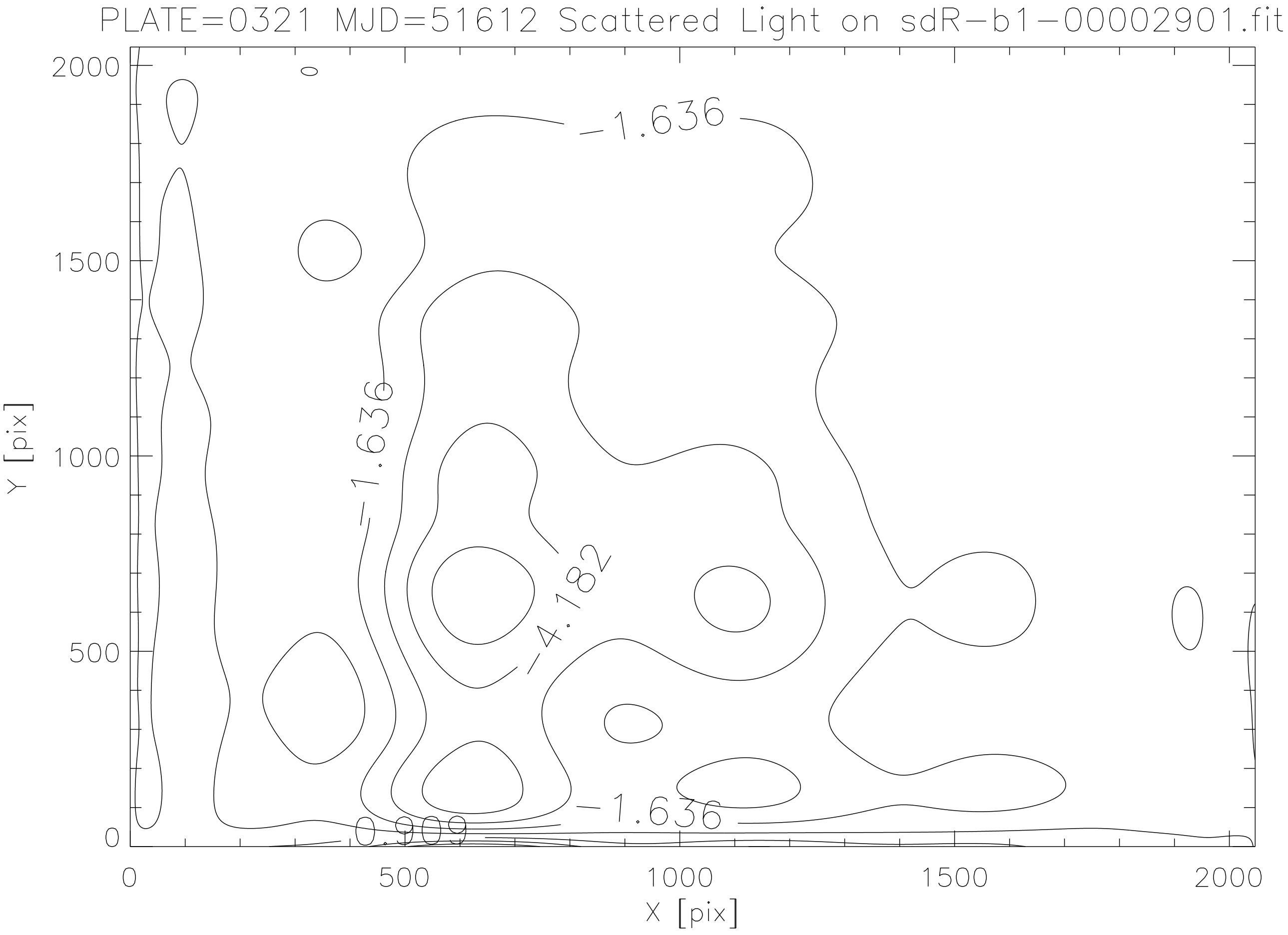

PLATE=0321 MJD=51612 Arcline Fit for sdR-b1-00002911.fit
Fiber Number
0
50
100
150
200
250
300
4000
4500
5000
5500
6000
λ [A] + 500 * Deviation
Deviation [pix]
0.10
0.05
0.00
−0.05
−0.10
4000
4500
5000
5500
6000
λ [A]
Mon Jul 21 13:52:09 2008


PLATE=0321 MJD=51612 Fiber−Flats for sdR−b1−00002910.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.510
Max value = 1.210
Fiber−Flat
1.5
1.0
0.5
0.0
4000
4500
5000
5500
6000
λ [A]
Mon Jul 21 13:52:37 2008

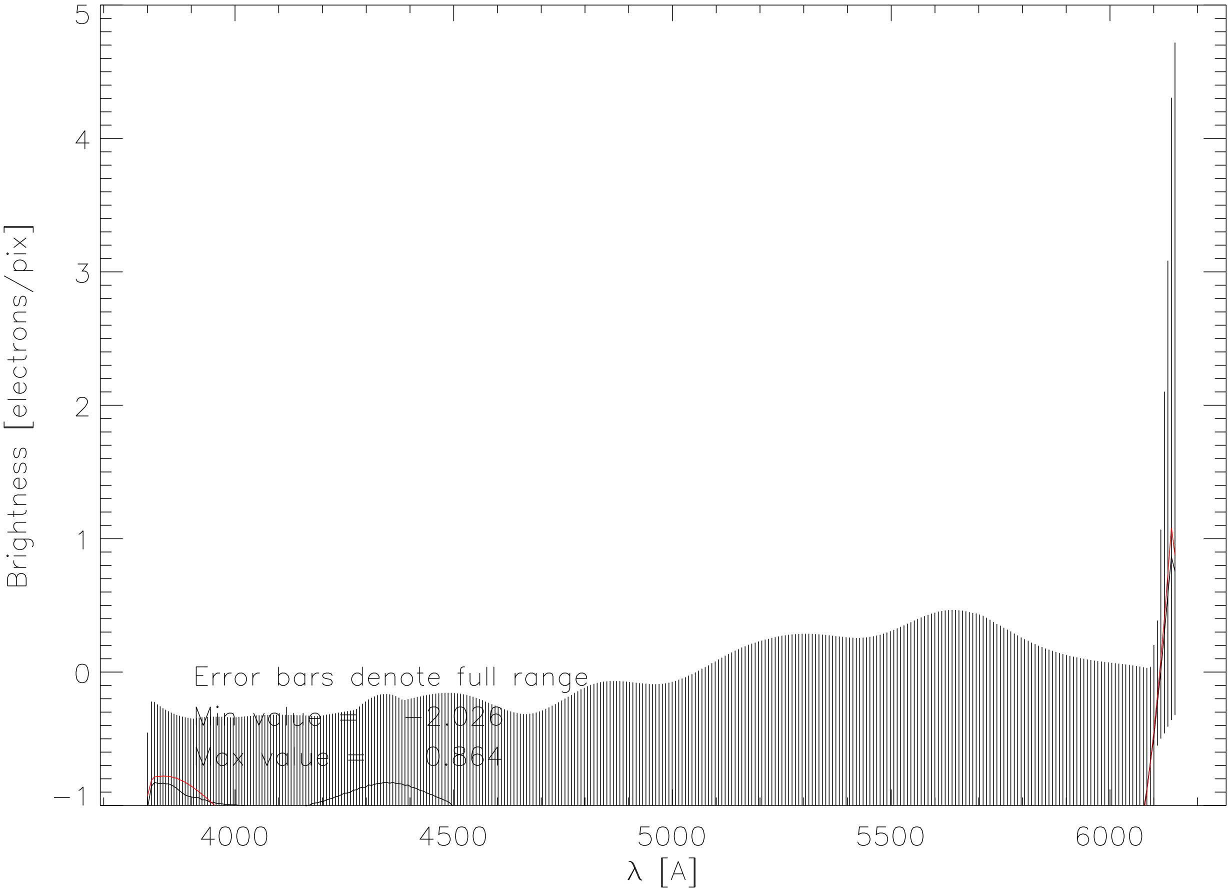


PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002901.f

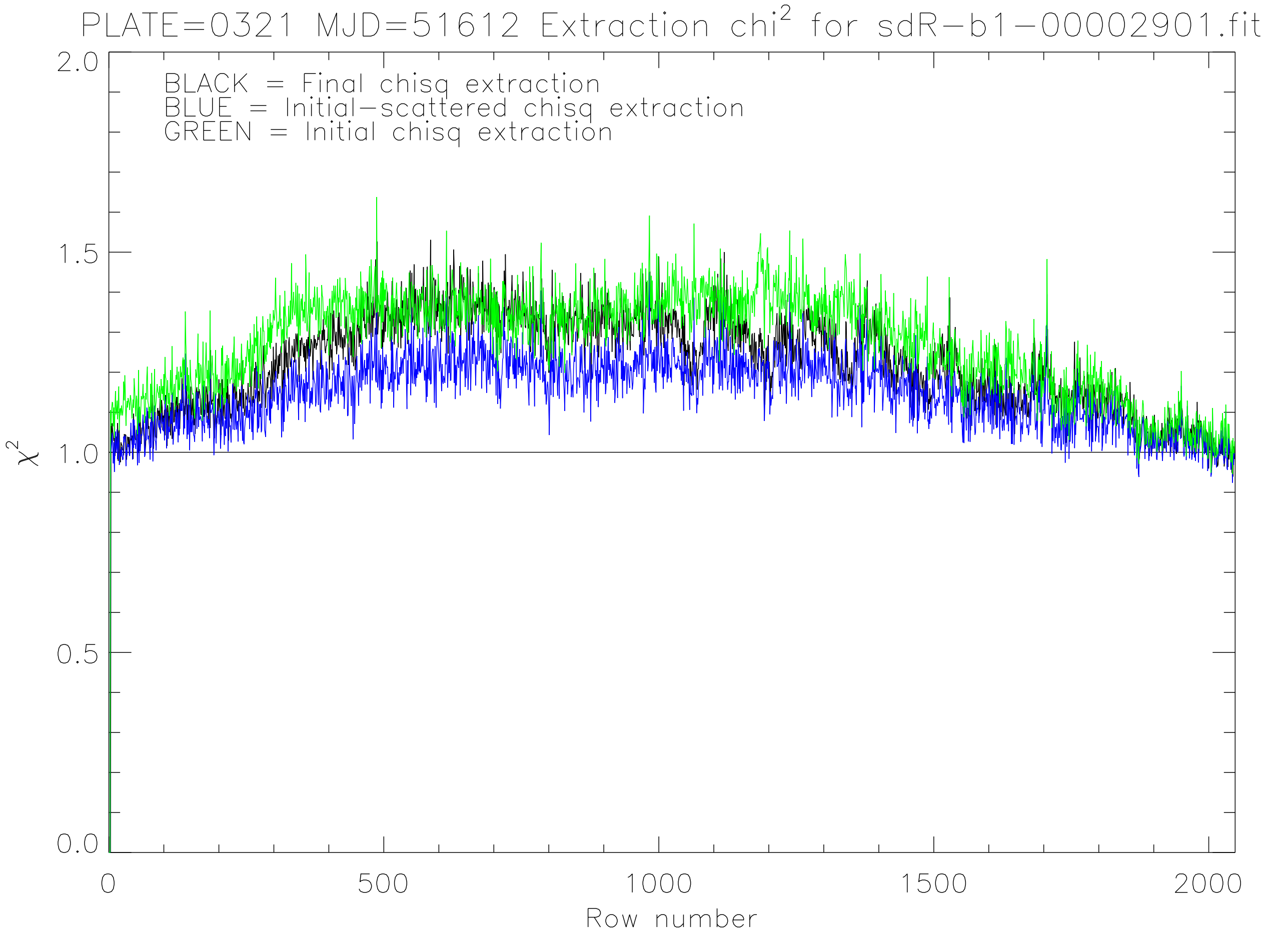

PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002901.f
Brightness [electrons/pix]
0
2
4
6
8
10
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 0.759
Max value = 5.048
Mon Jul 21 13:53:20 2008

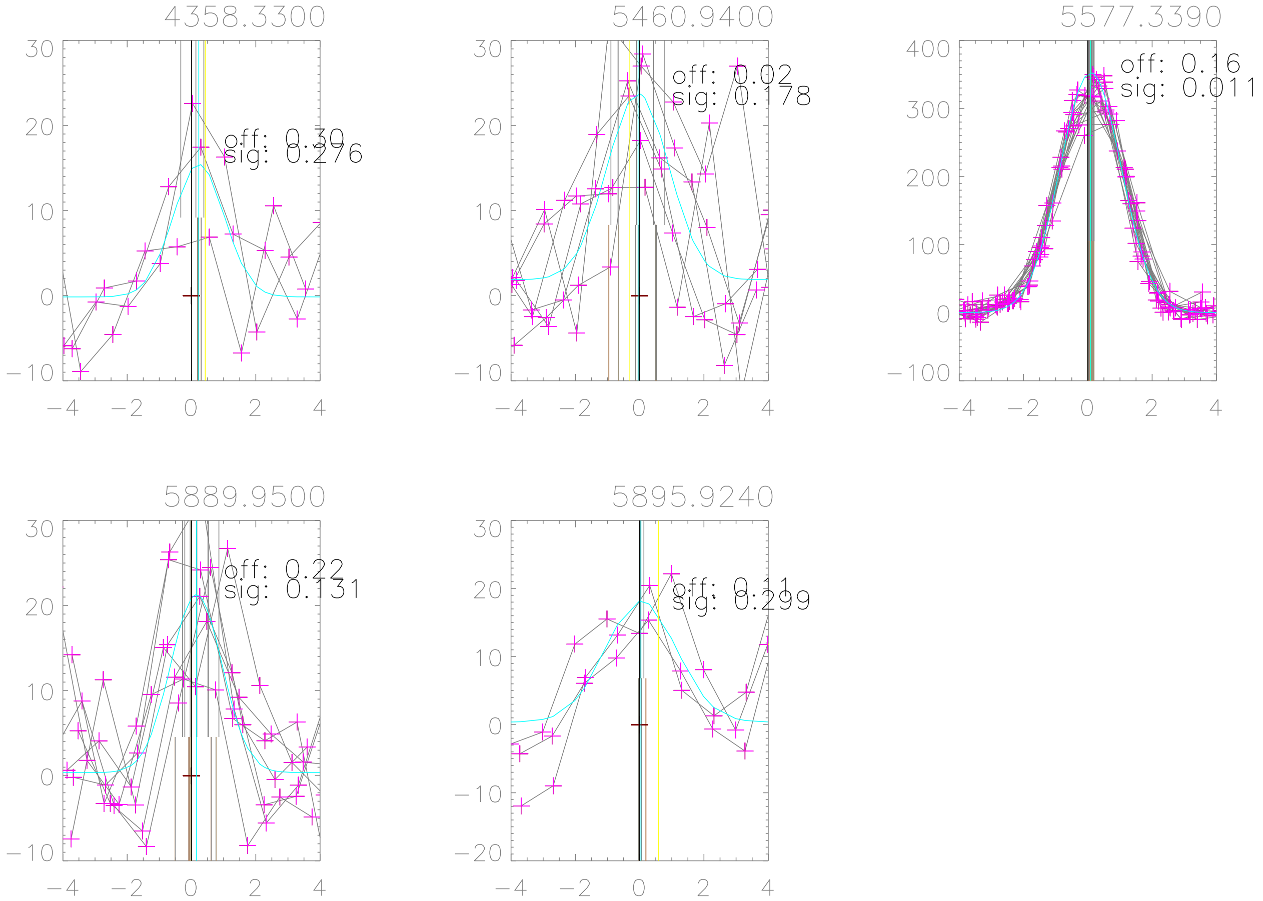

PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002901.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0
500
1000
1500
2000
-1.636
-1.636
-4.182
-1.636
0.909

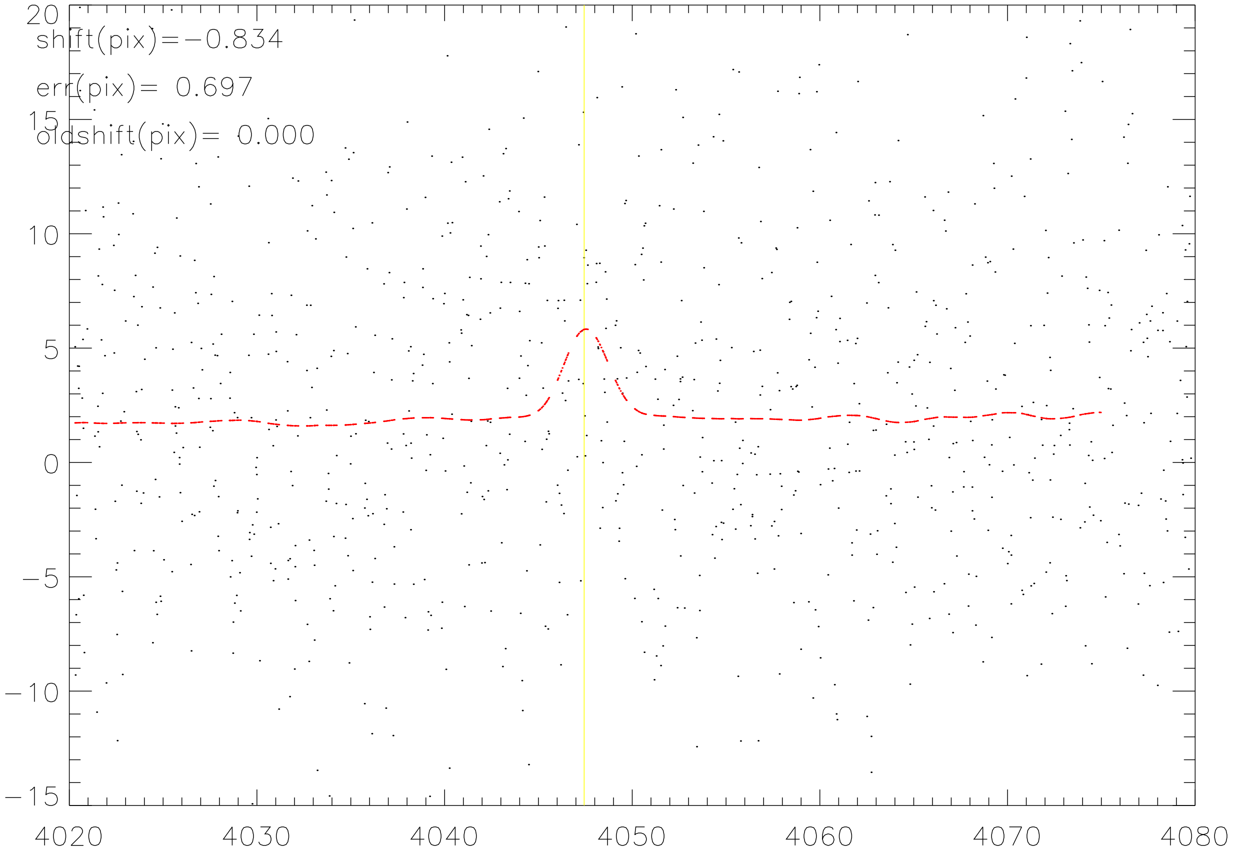
PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002901.fit

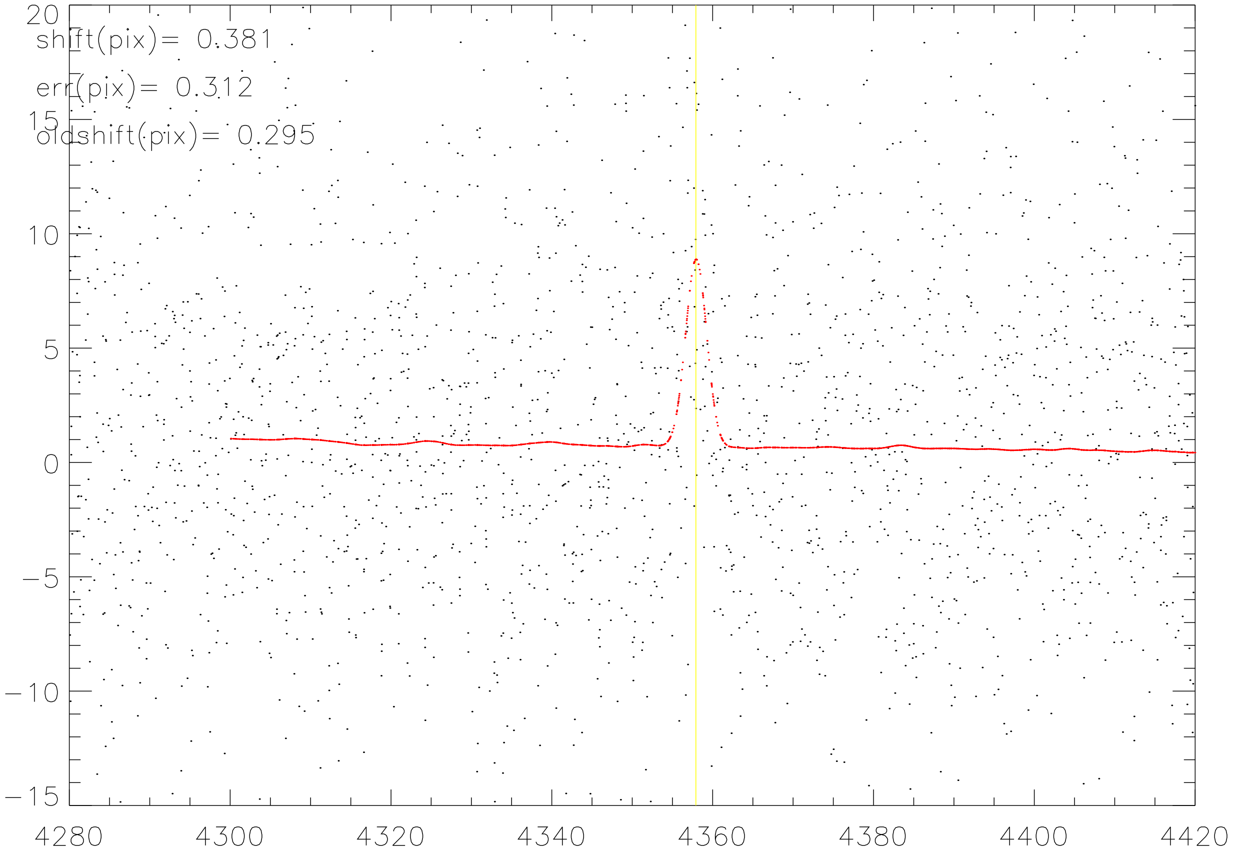


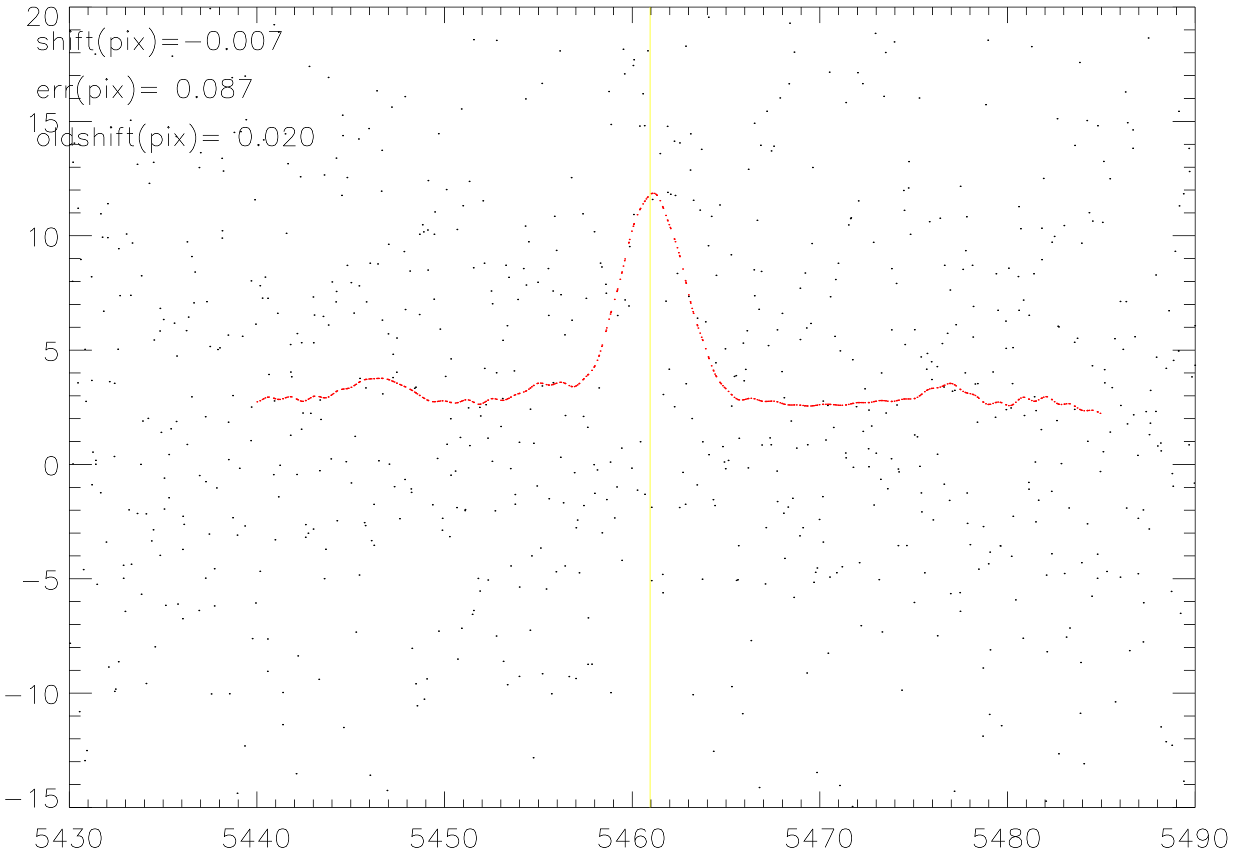
Mon Jul 21 13:56:17 2008

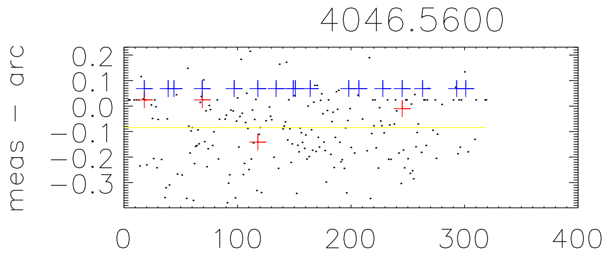

PLATE=0321 MJD=51612 Extraction chi^2 for sdR-b1-00002901.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0.0
0.5
1.0
1.5
2.0
0
500
1000
1500
2000
Row number

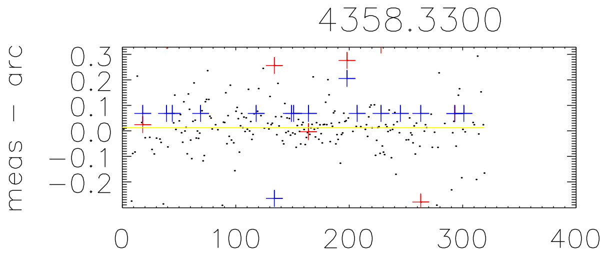

4358.3300
off: 0.30
sig: 0.276
5460.9400
off: 0.02
sig: 0.178
5577.3390
off: 0.16
sig: 0.011
5889.9500
off: 0.22
sig: 0.131
5895.9240
off: 0.11
sig: 0.299
−4
−2
0
2
4

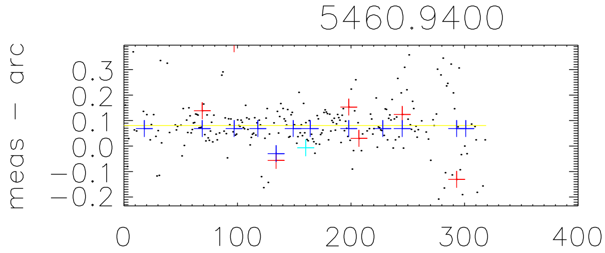

shift(pix)=−0.834
err(pix)= 0.697
oldshift(pix)= 0.000
20
15
10
5
0
−5
−10
−15
4020
4030
4040
4050
4060
4070
4080

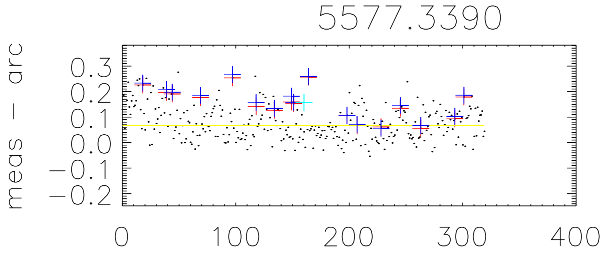

shift(pix)= 0.381
err(pix)= 0.312
oldshift(pix)= 0.295
20
15
10
5
0
−5
−10
−15
4280
4300
4320
4340
4360
4380
4400
4420

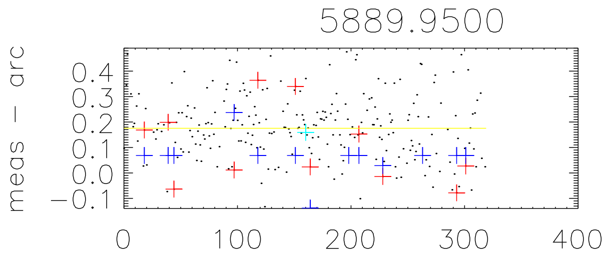

shift(pix)=−0.007
err(pix)= 0.087
oldshift(pix)= 0.020
20
15
10
5
0
−5
−10
−15
5430
5440
5450
5460
5470
5480
5490

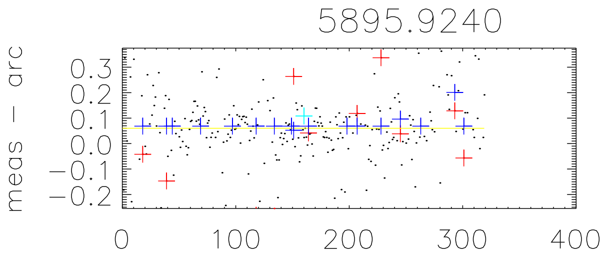

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

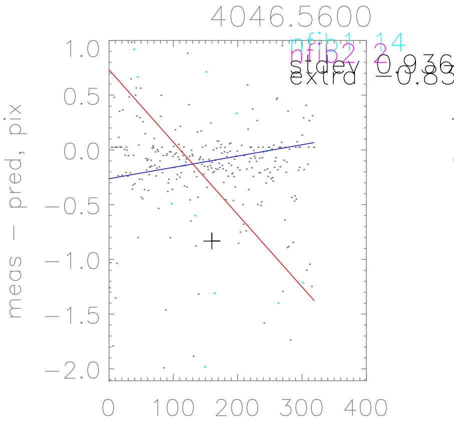

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

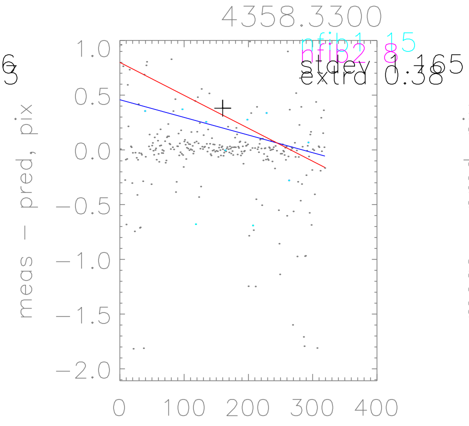

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

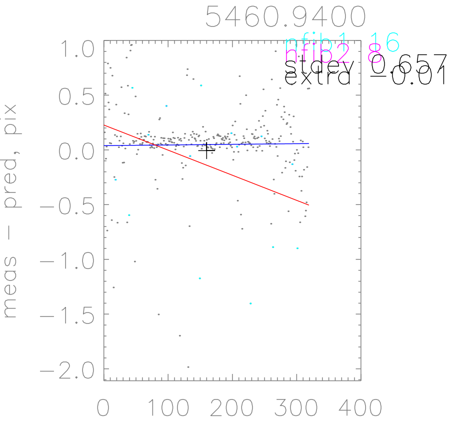

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

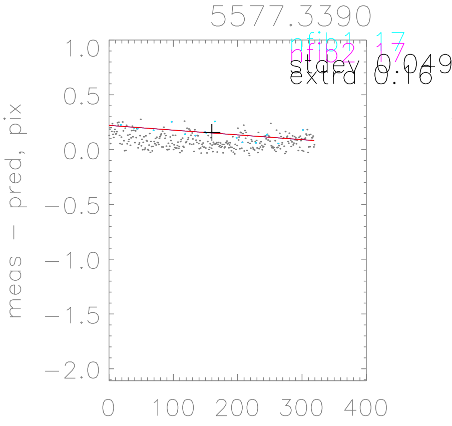

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

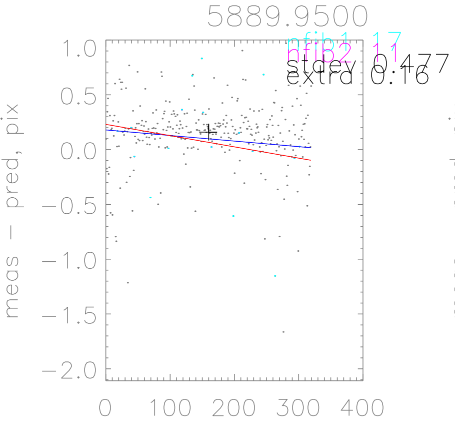

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

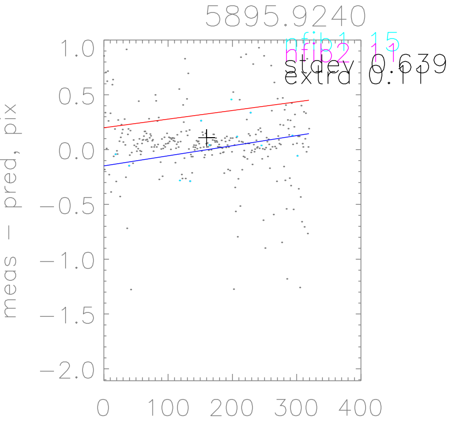

4046.5600
nfib1 14
nfib2 2
stdev 0.936
extrd −0.83
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
0
100
200
300
400

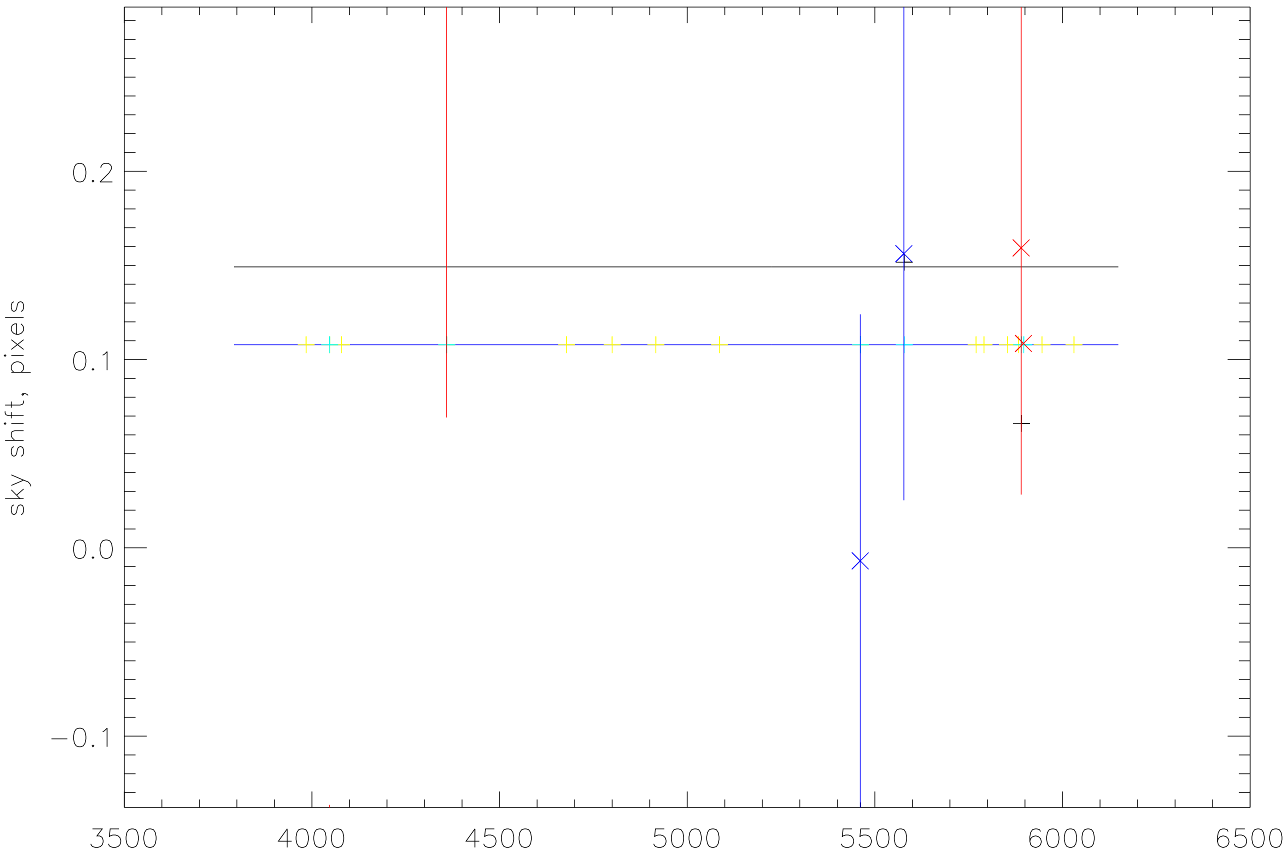

4358.3300
nfib1 15
nfib2 8
stdev 1.165
extrd 0.38
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
0
100
200
300
400

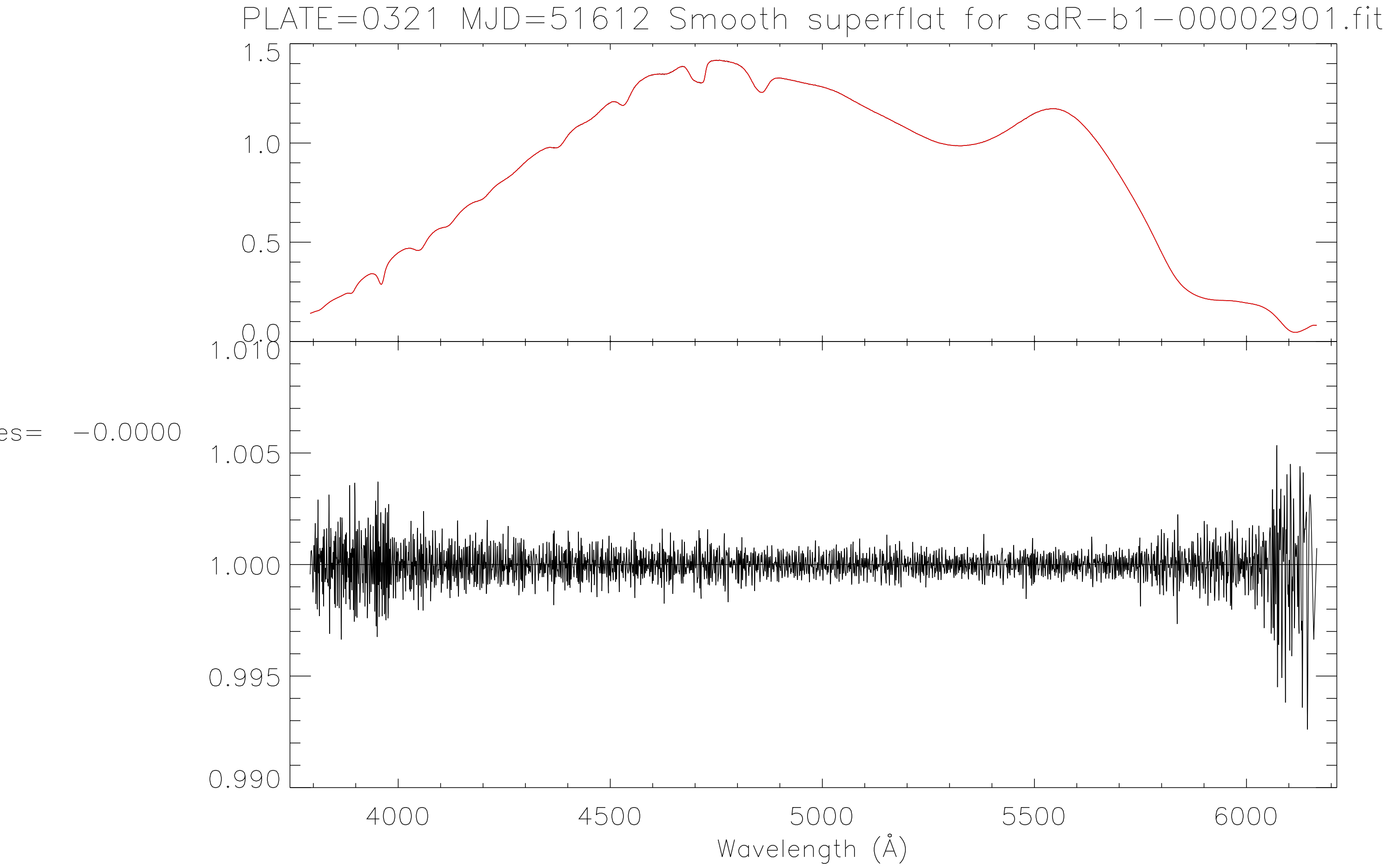

5460.9400
nfib1 16
nfib2 8
stdev 0.657
extrd −0.01
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
0
100
200
300
400

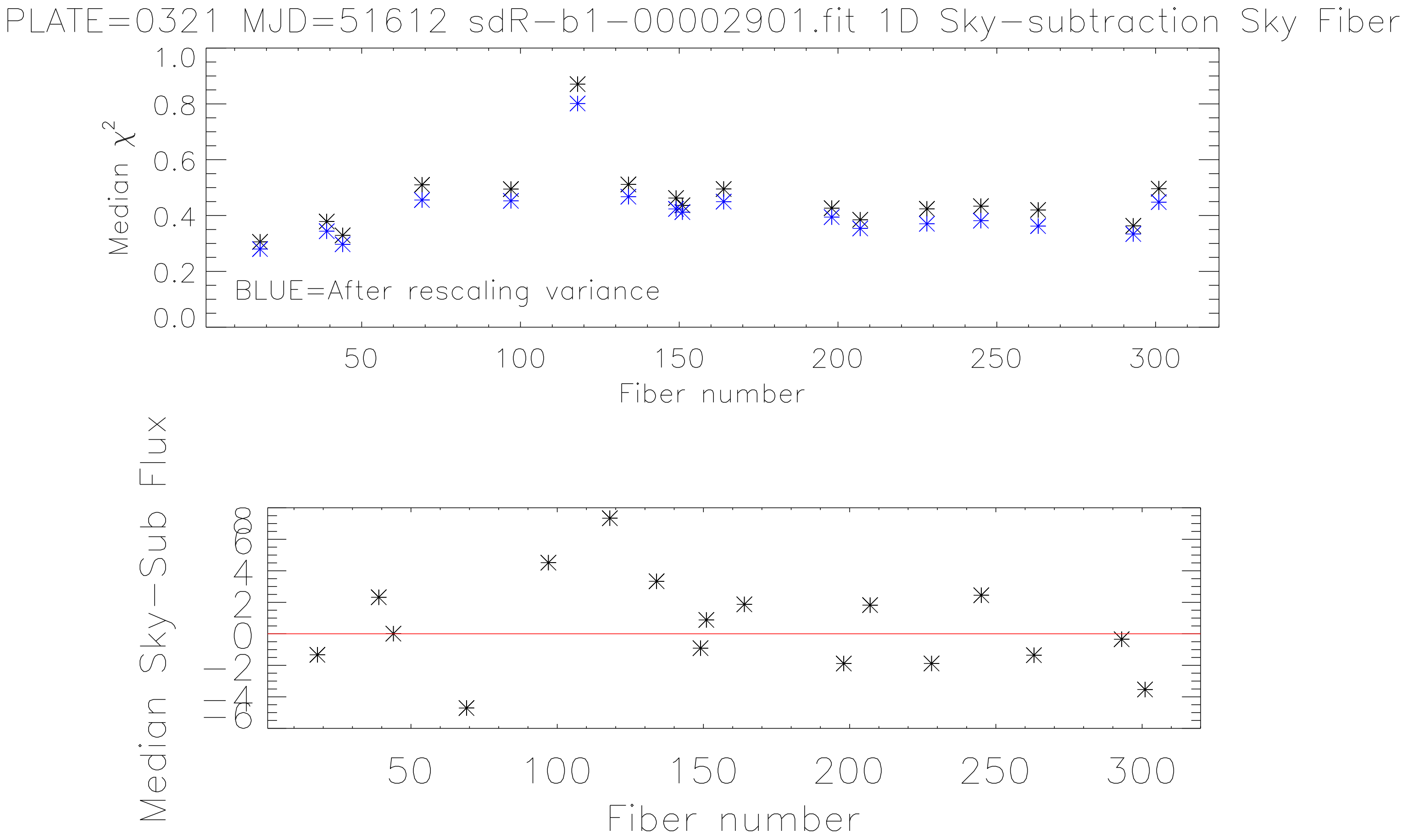

5577.3390
nfib1 17
nfib2 17
stdev 0.049
extrd 0.16
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
0
100
200
300
400


5889.9500
nfib1 17
nfib2 11
stdev 0.477
extrd 0.16
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
0
100
200
300
400

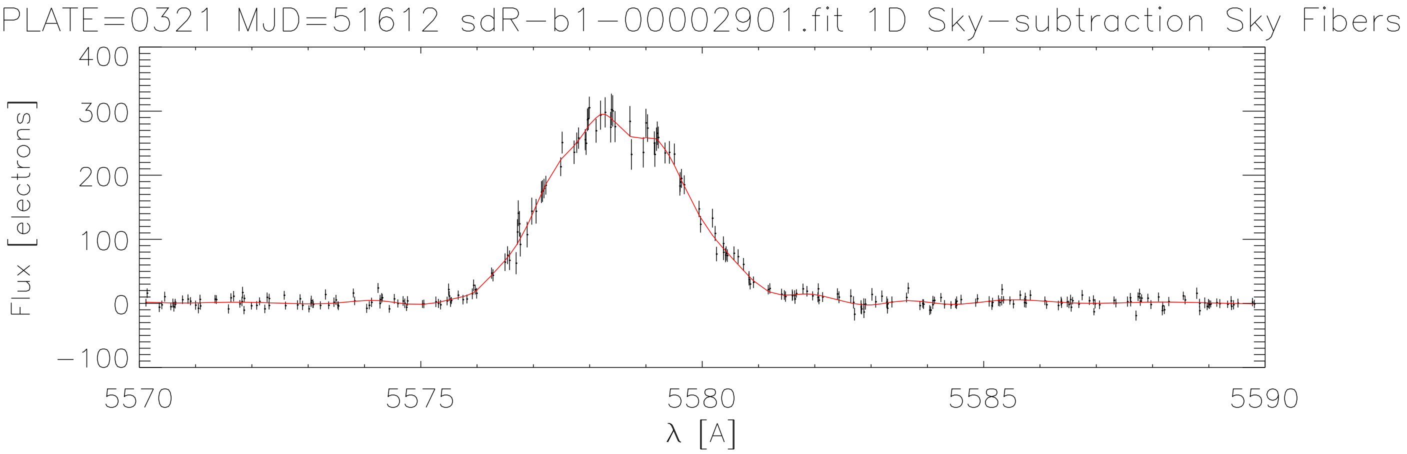

5895.9240
nfib1 15
nfib2 11
stdev 0.639
extrd 0.11
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
−1.5
−2.0
0
100
200
300
400

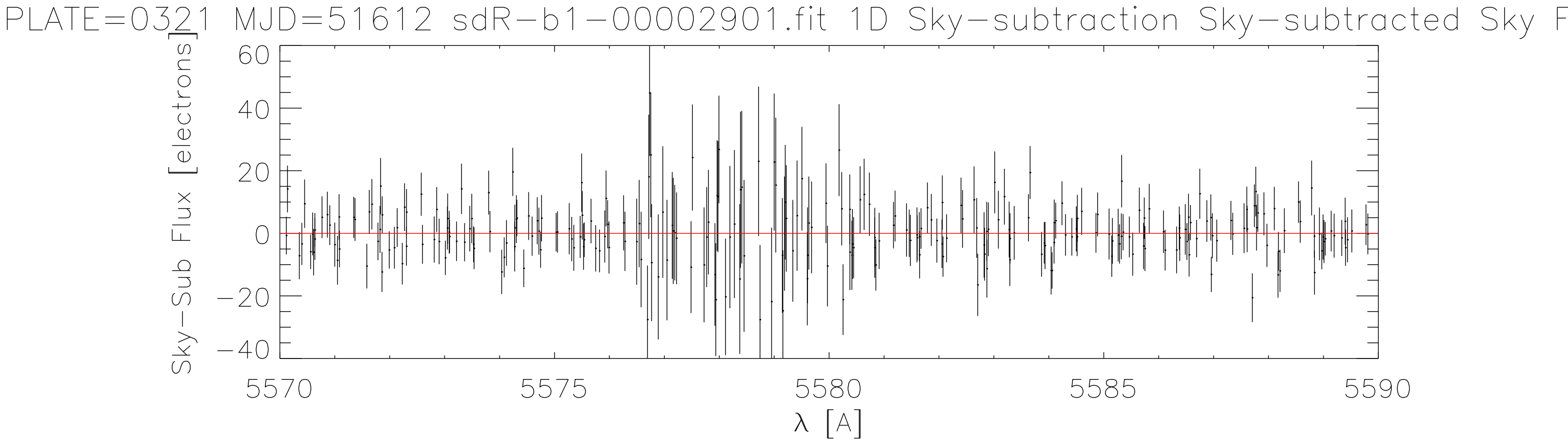

sky shift, pixels
0.2
0.1
0.0
−0.1
3500
4000
4500
5000
5500
6000
6500


PLATE=0321 MJD=51612 Smooth superflat for sdR-b1-00002901.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)



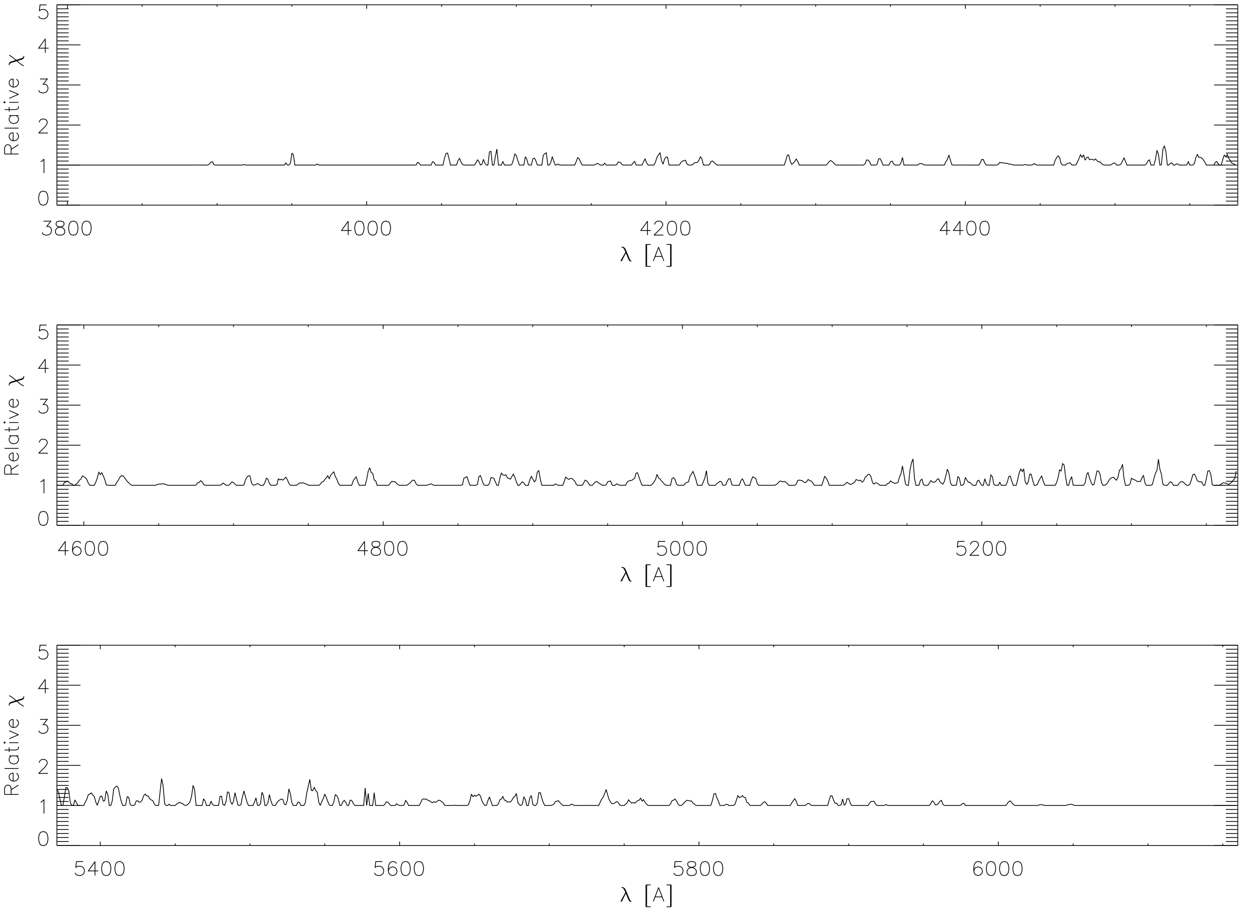
PLATE=0321 MJD=51612 sdR-b1-00002901.fit 1D Sky-subtraction Sky Fiber

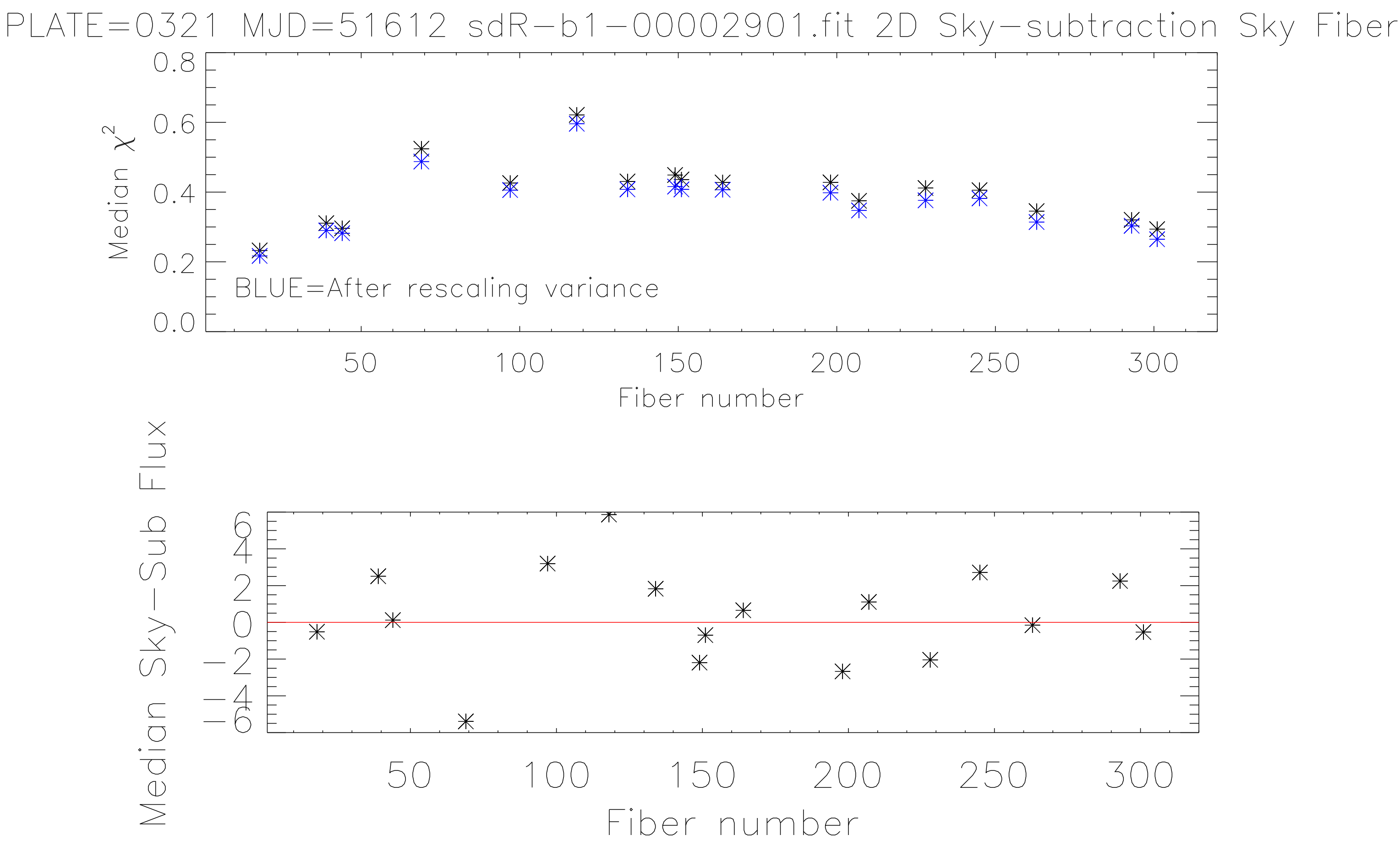

PLATE=0321 MJD=51612 sdR-b1-00002901.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
400
300
200
100
0
−100
5570
5575
5580
5585
5590
λ [A]


PLATE=0321 MJD=51612 sdR-b1-00002901.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
−20
−40
5570
5575
5580
5585
5590
λ [A]

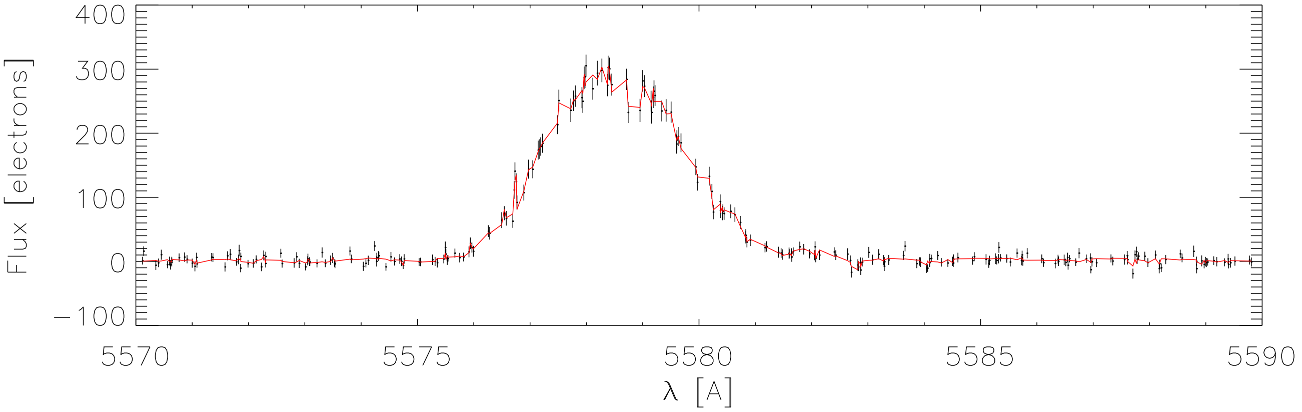
Number of sky fibers = 17

PLATE=0321 MJD=51612 sdR-b1-00002901.fit 1D Sky-subtraction Rescaled Errors

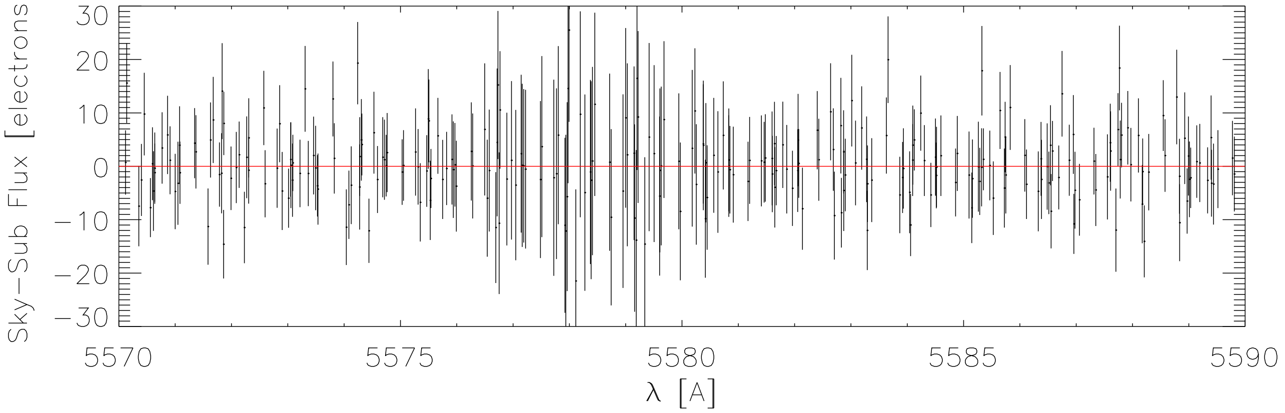



PLATE=0321 MJD=51612 sdR-b1-00002901.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
50
100
150
200
250
300
Fiber number

PLATE=0321 MJD=51612 sdR-b1-00002901.fit 2D Sky-subtraction Sky Fibers

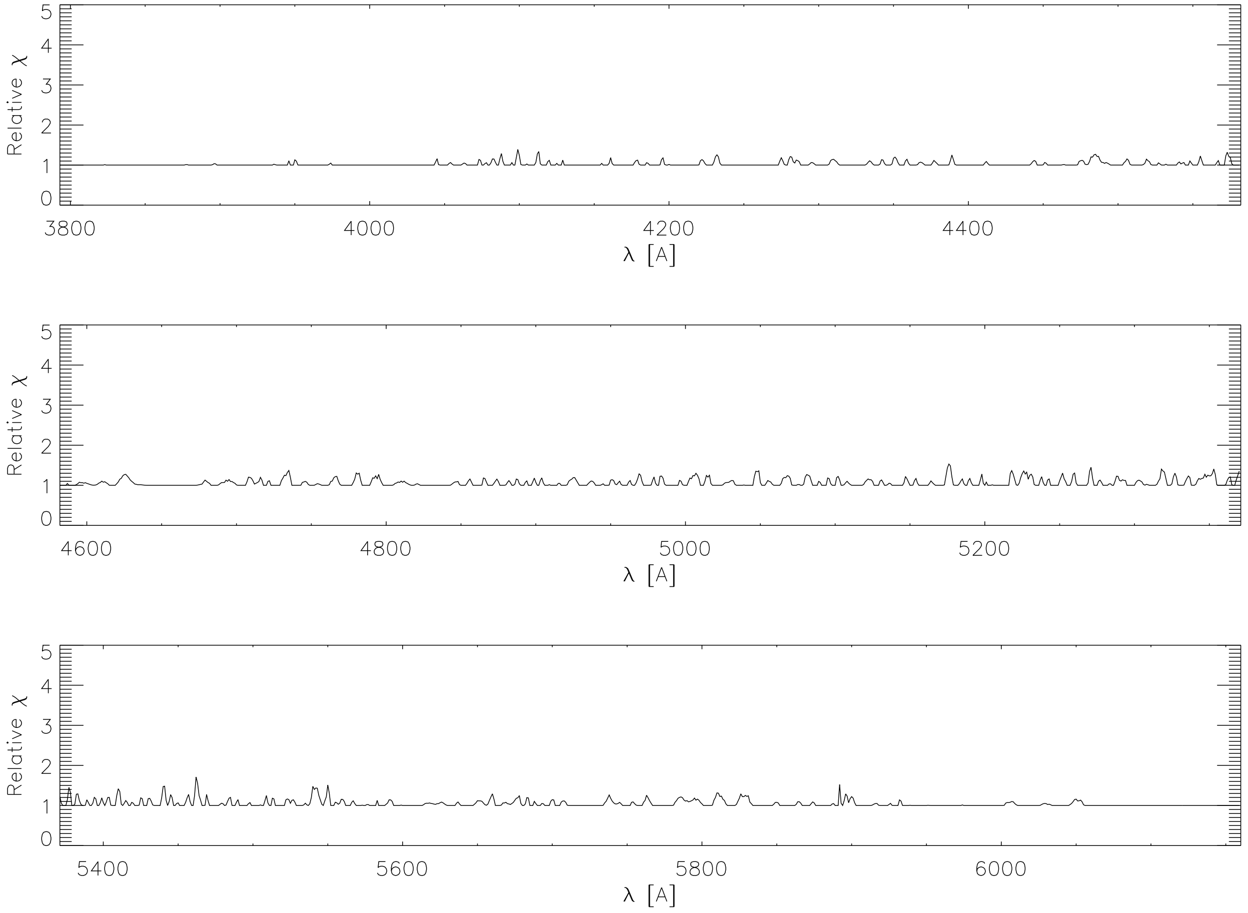


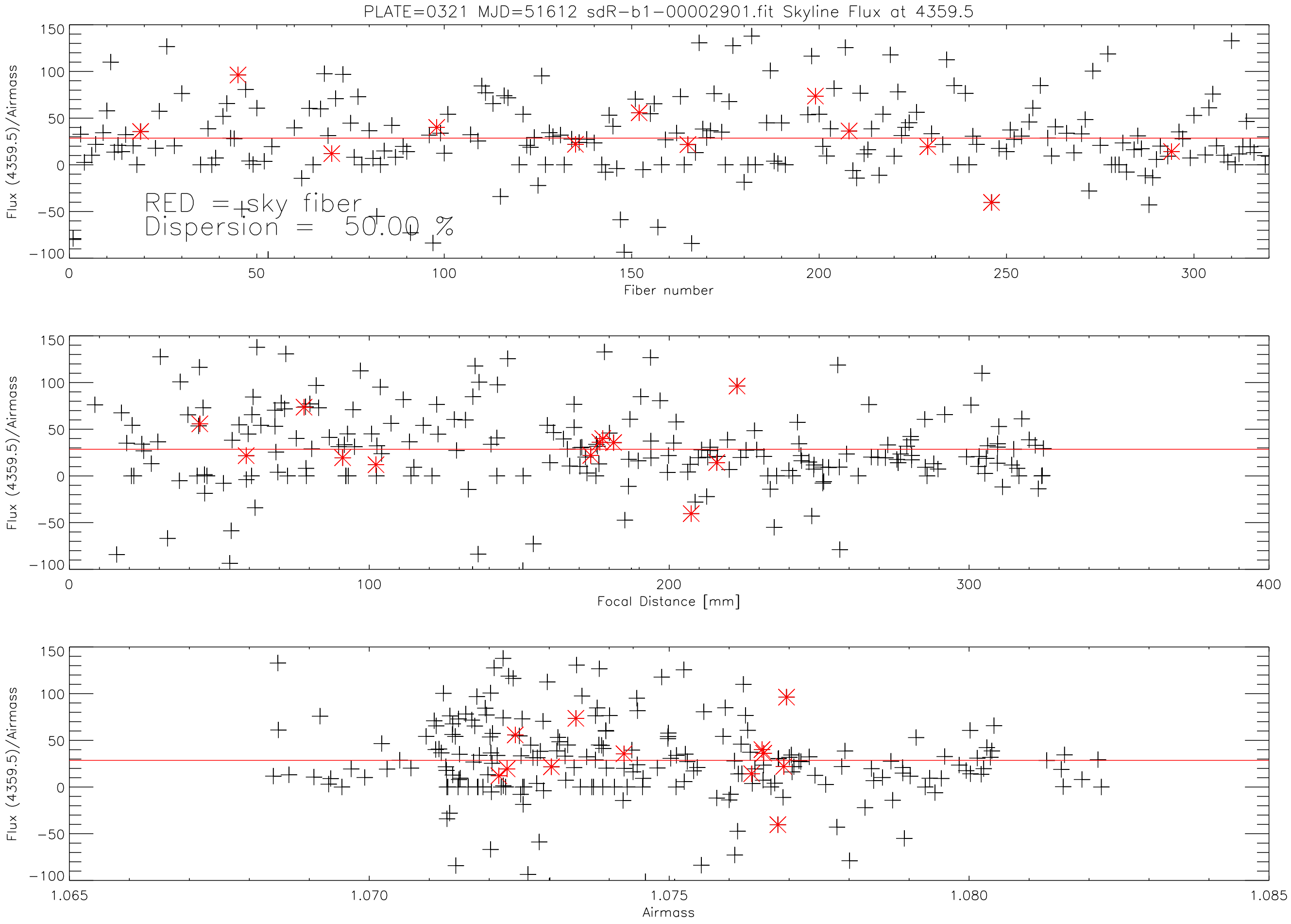
PLATE=0321 MJD=51612 sdR-b1-00002901.fit 2D Sky-subtraction Sky-subtracted Sky F

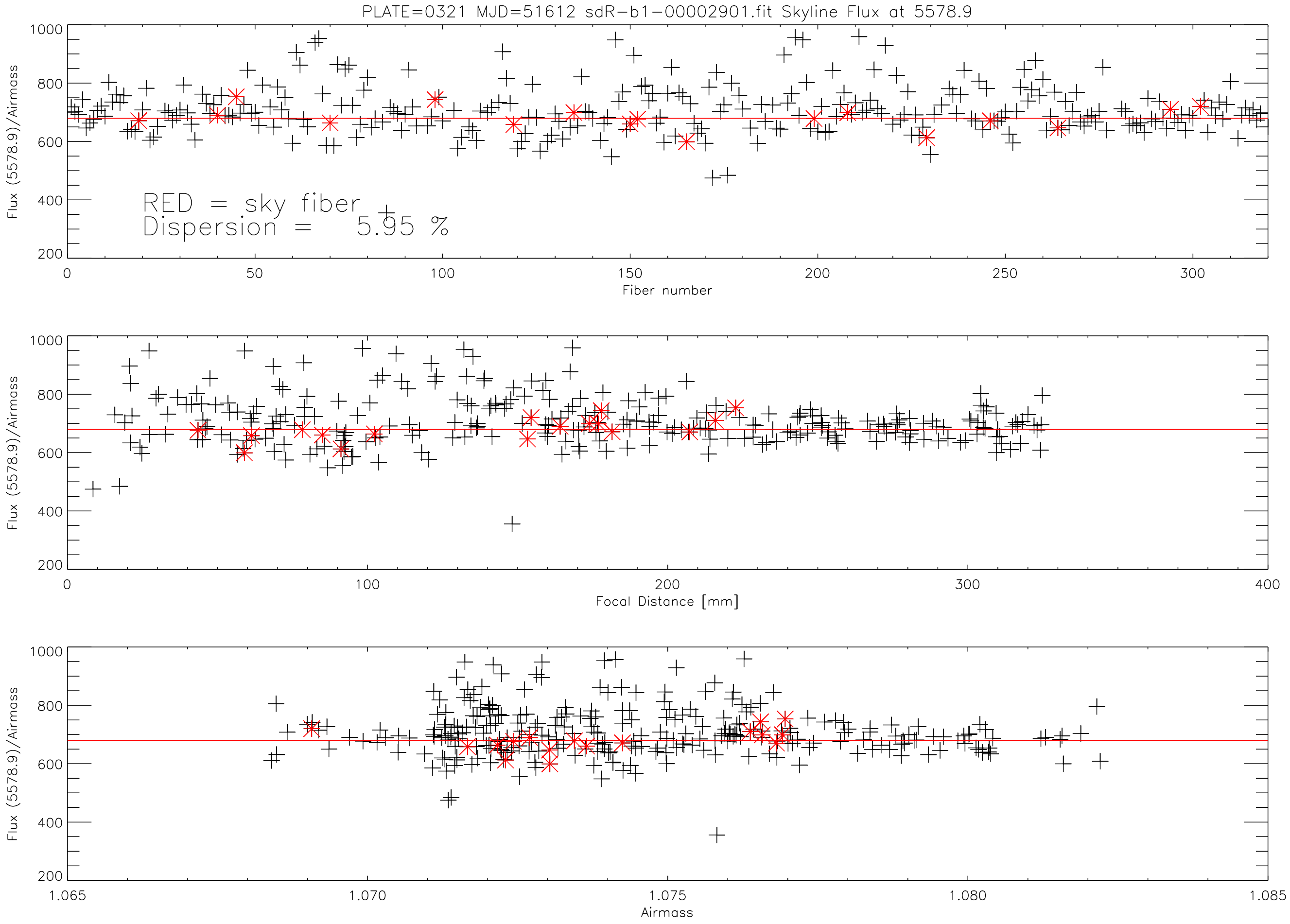


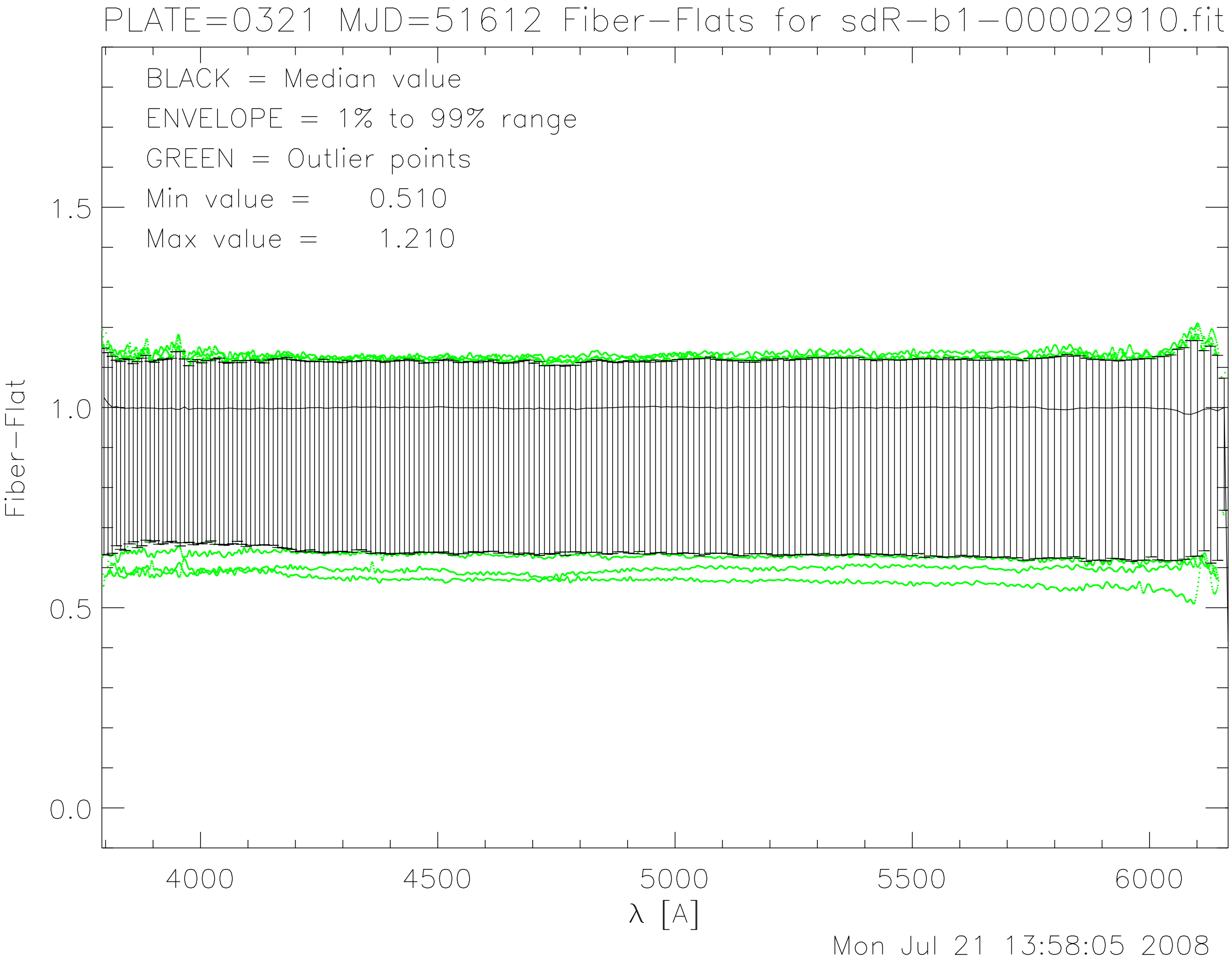
Number of sky fibers = 17

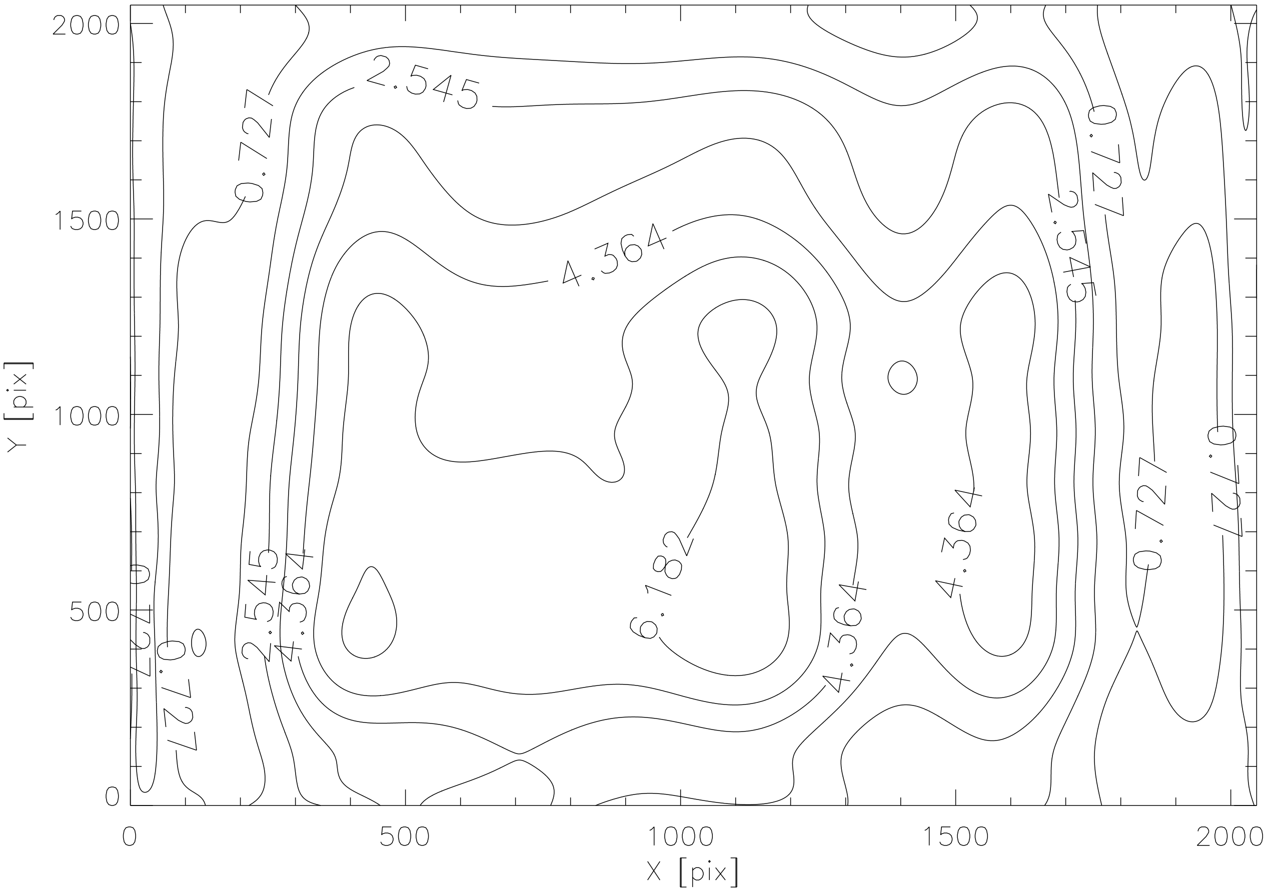
PLATE=0321 MJD=51612 sdR-b1-00002901.fit 2D Sky-subtraction Rescaled Errors



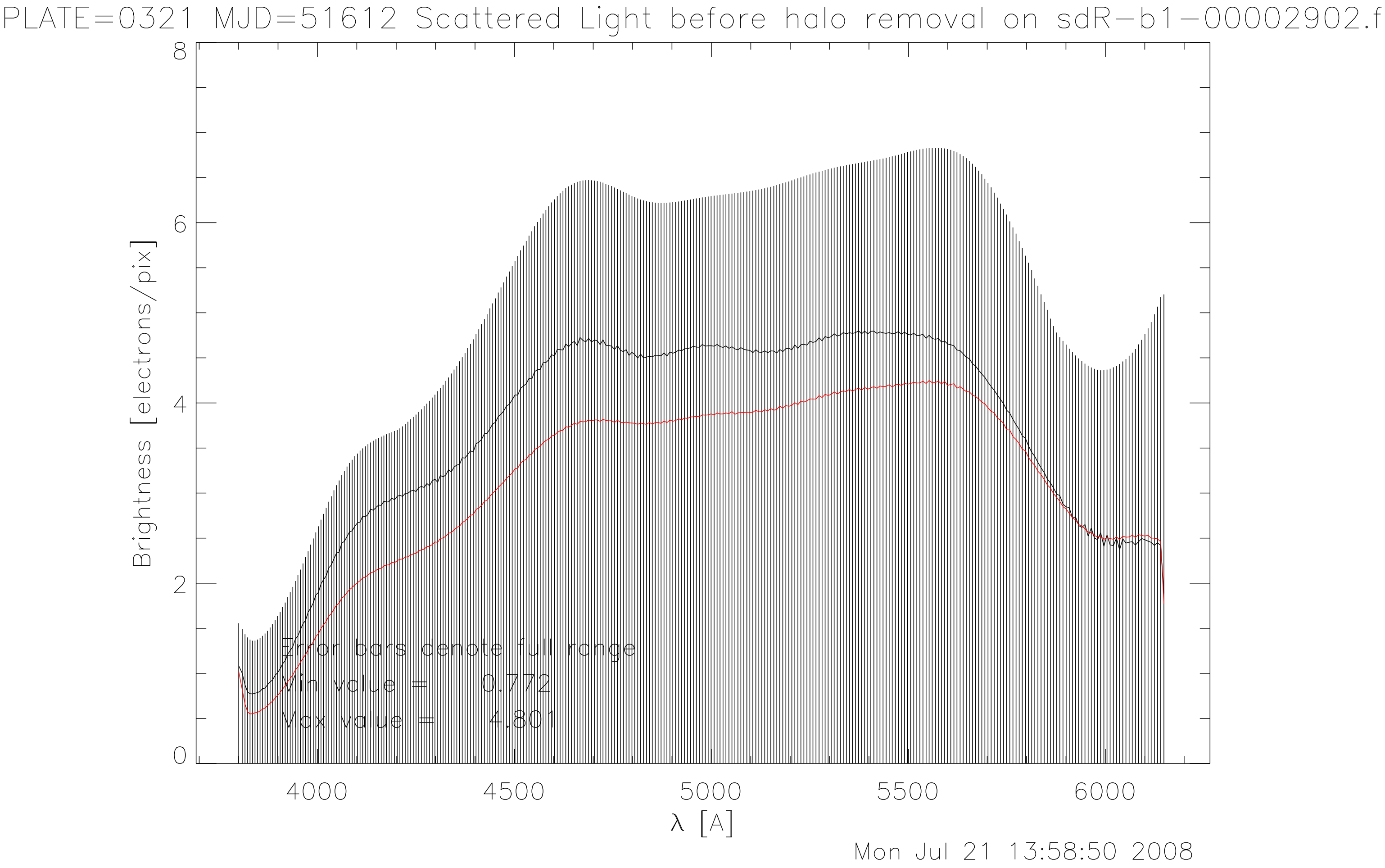

PLATE=0321 MJD=51612 sdR-b1-00002901.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
150
100
50
0
−50
−100
RED = sky fiber
Dispersion = 50.00 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
150
100
50
0
−50
−100
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
150
100
50
0
−50
−100
1.065
1.070
1.075
1.080
1.085
Airmass

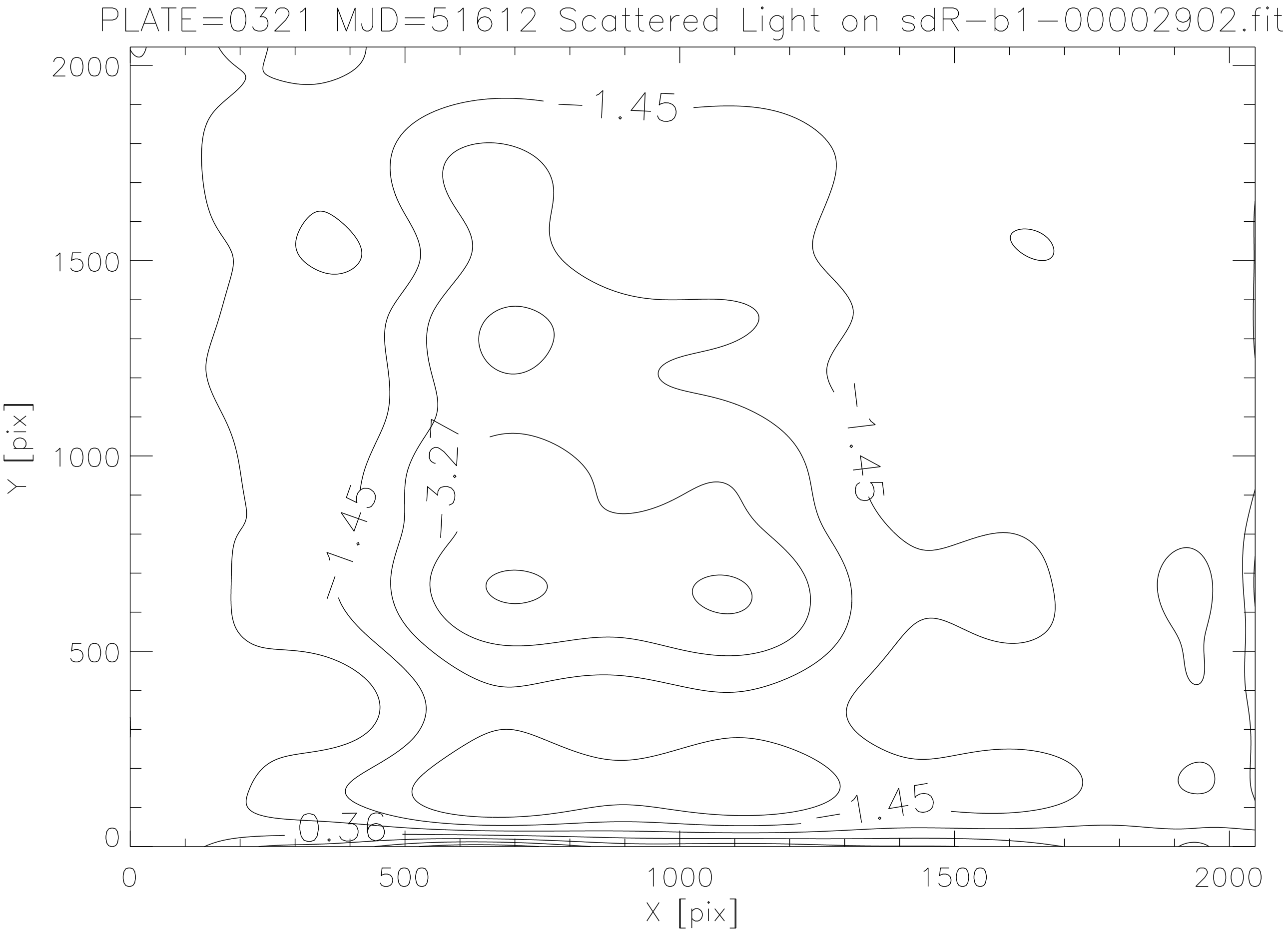

PLATE=0321 MJD=51612 sdR-b1-00002901.fit Skyline Flux at 5578.9
RED = sky fiber
Dispersion = 5.95 %
Flux (5578.9)/Airmass
1000
800
600
400
200
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1000
800
600
400
200
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1000
800
600
400
200
1.065
1.070
1.075
1.080
1.085
Airmass

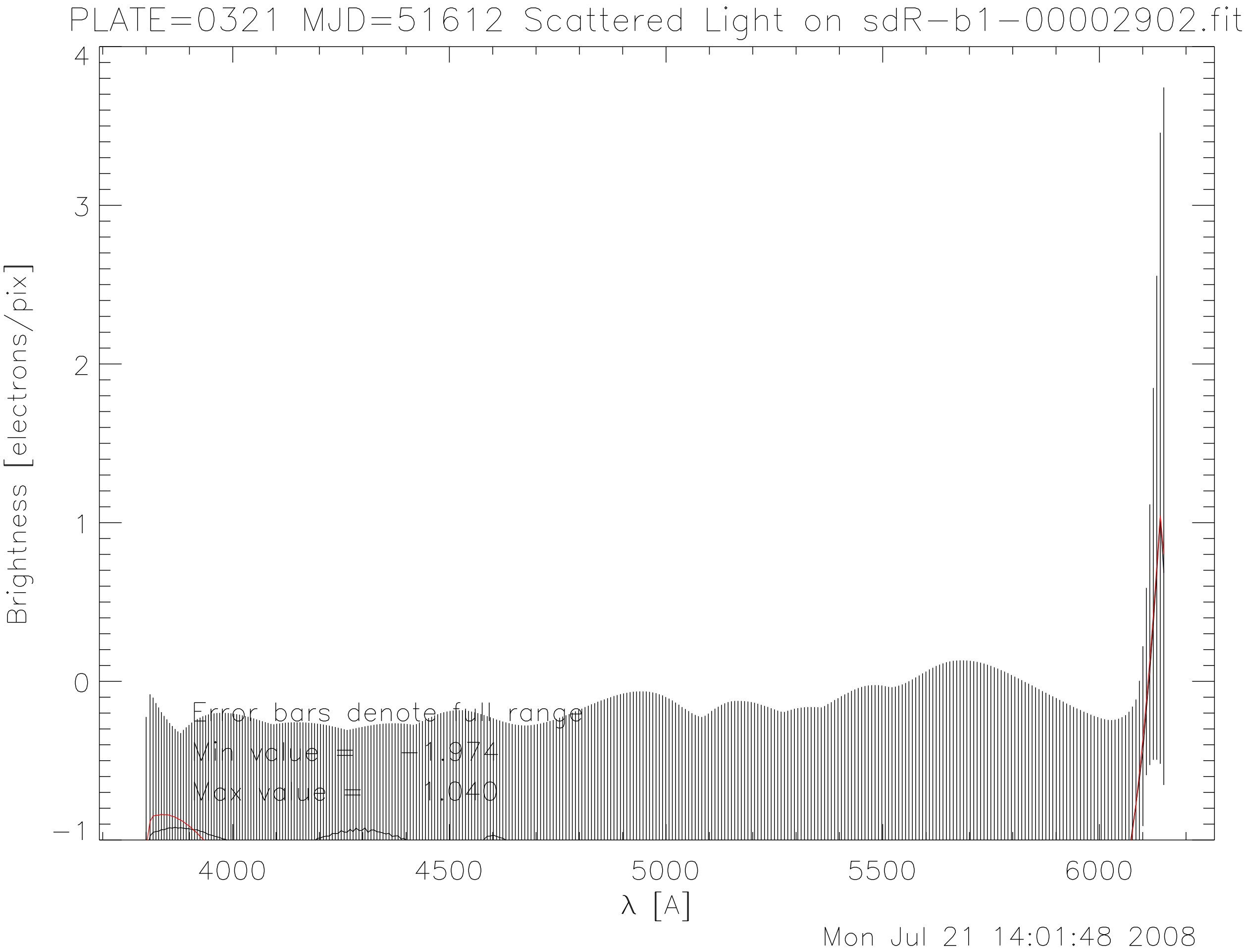

PLATE=0321 MJD=51612 Fiber−Flats for sdR−b1−00002910.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.510
Max value = 1.210
1.5
1.0
0.5
0.0
Fiber−Flat
4000
4500
5000
5500
6000
λ [A]
Mon Jul 21 13:58:05 2008

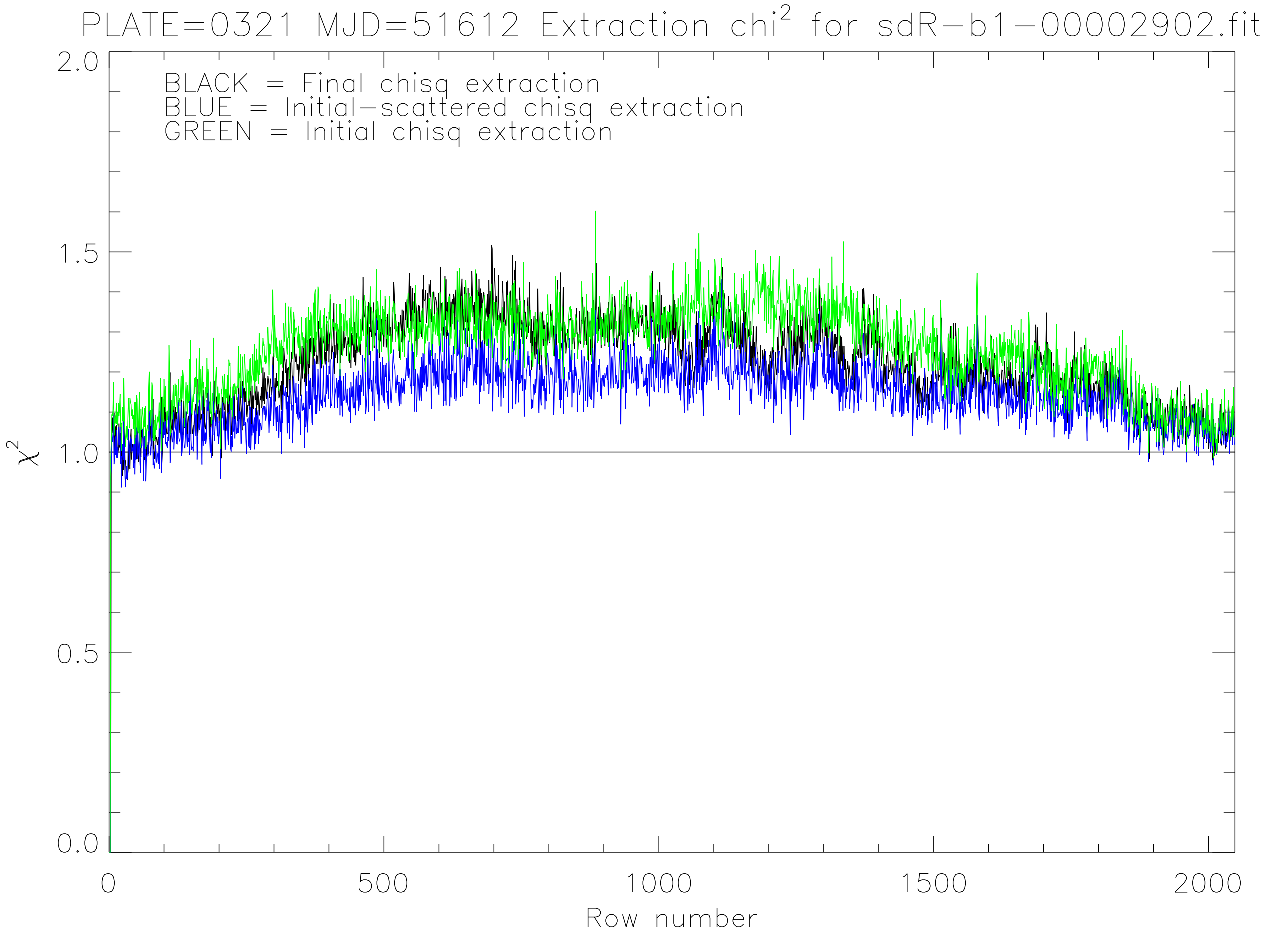


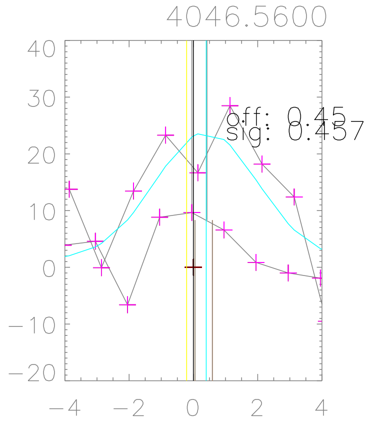
PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002902.f

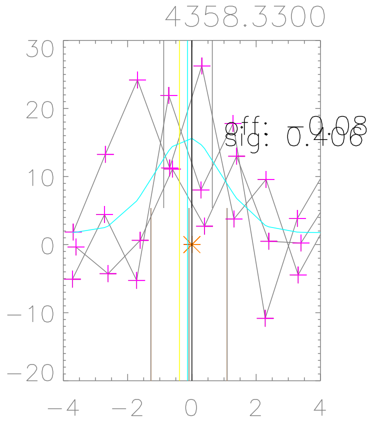

PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002902.f
Brightness [electrons/pix]
λ [A]
0
2
4
6
8
4000
4500
5000
5500
6000
Error bars denote full range
Min value = 0.772
Max value = 4.801
Mon Jul 21 13:58:50 2008

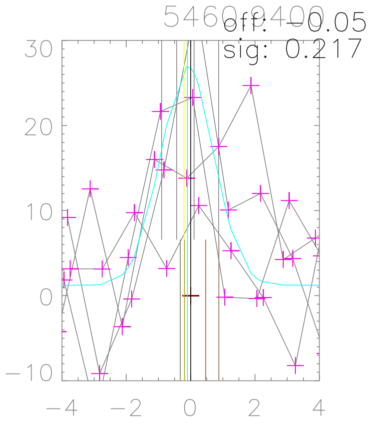

PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002902.fit
-1.45
-1.45
-3.27
-1.45
-1.45
0.36
Y [pix]
0
500
1000
1500
2000
X [pix]
0
500
1000
1500
2000

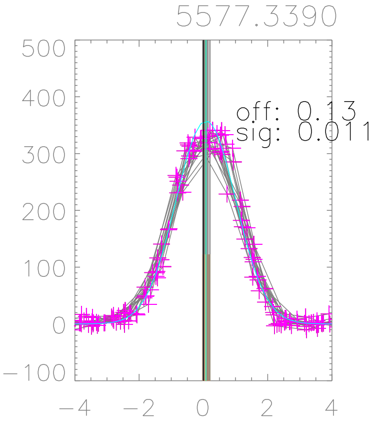

PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002902.fit
Brightness [electrons/pix]
4
3
2
1
0
−1
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = −1.974
Max value = 1.040
Mon Jul 21 14:01:48 2008

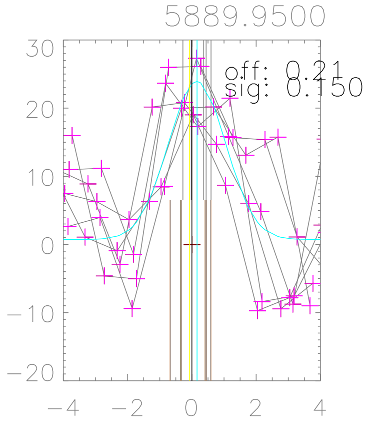

PLATE=0321 MJD=51612 Extraction chi^2 for sdR-b1-00002902.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0.0
0.5
1.0
1.5
2.0
0
500
1000
1500
2000
Row number

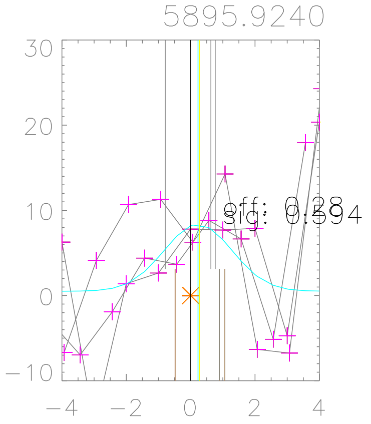

4046.5600
off: 0.45
sig: 0.457
40
30
20
10
0
−10
−20
−4
−2
0
2
4

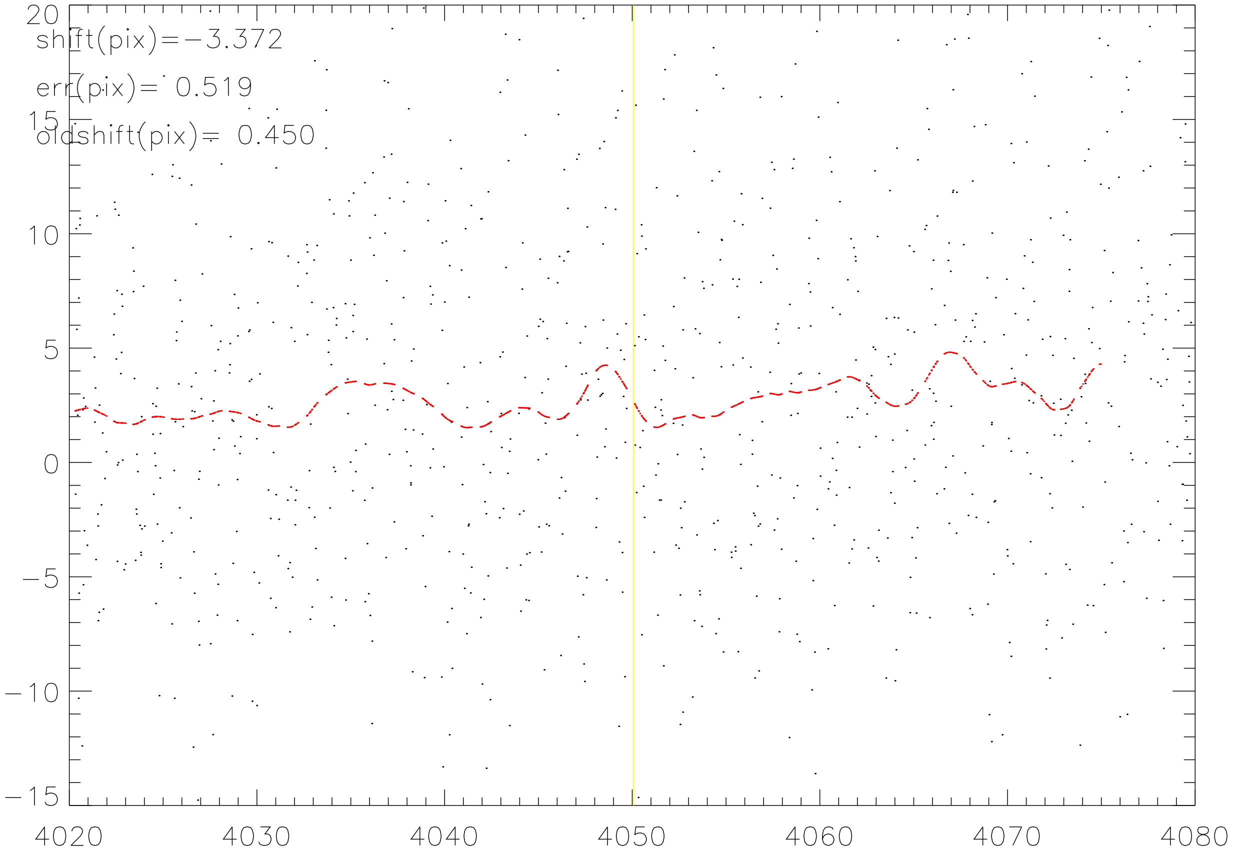

4358.3300
off: −0.08
sig: 0.406
30
20
10
0
−10
−20
−4
−2
0
2
4

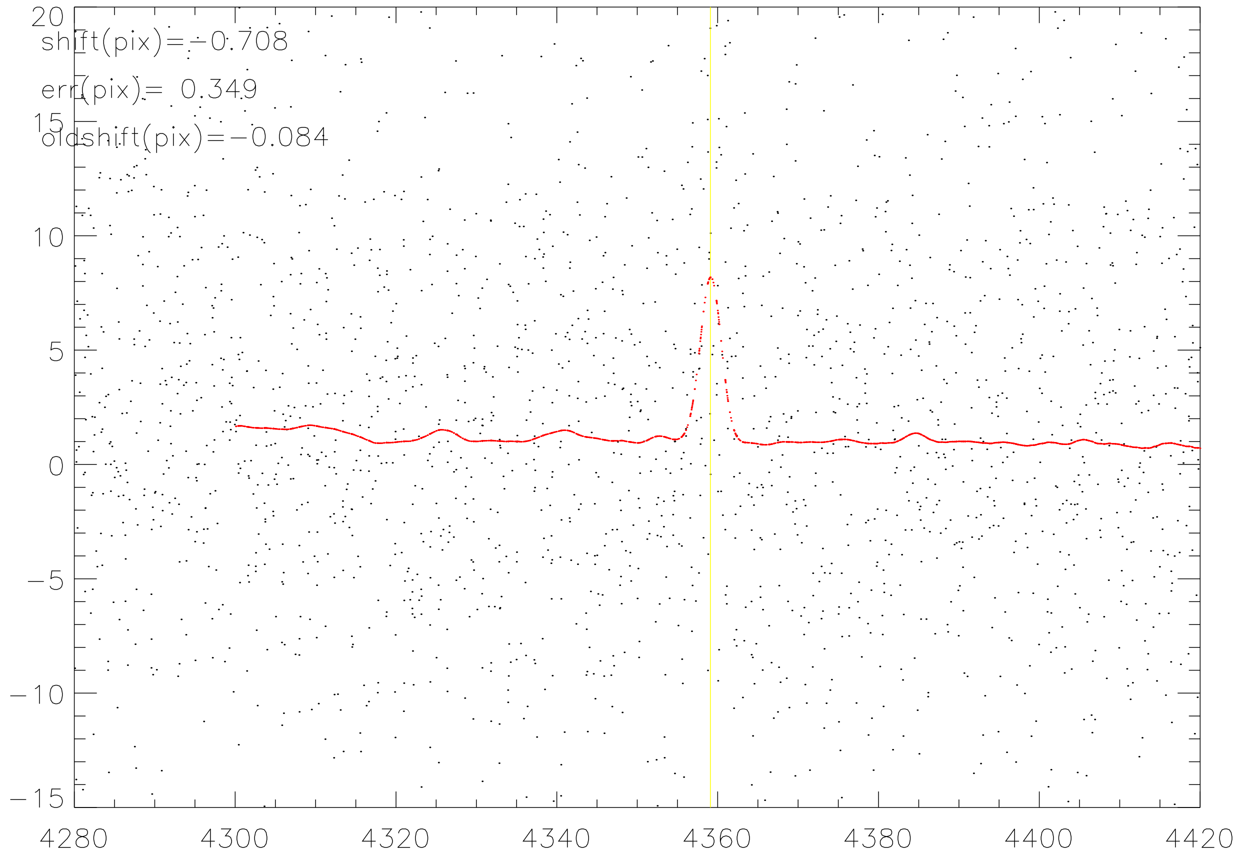

5460.9400
off: −0.05
sig: 0.217
30
20
10
0
−10
−4
−2
0
2
4

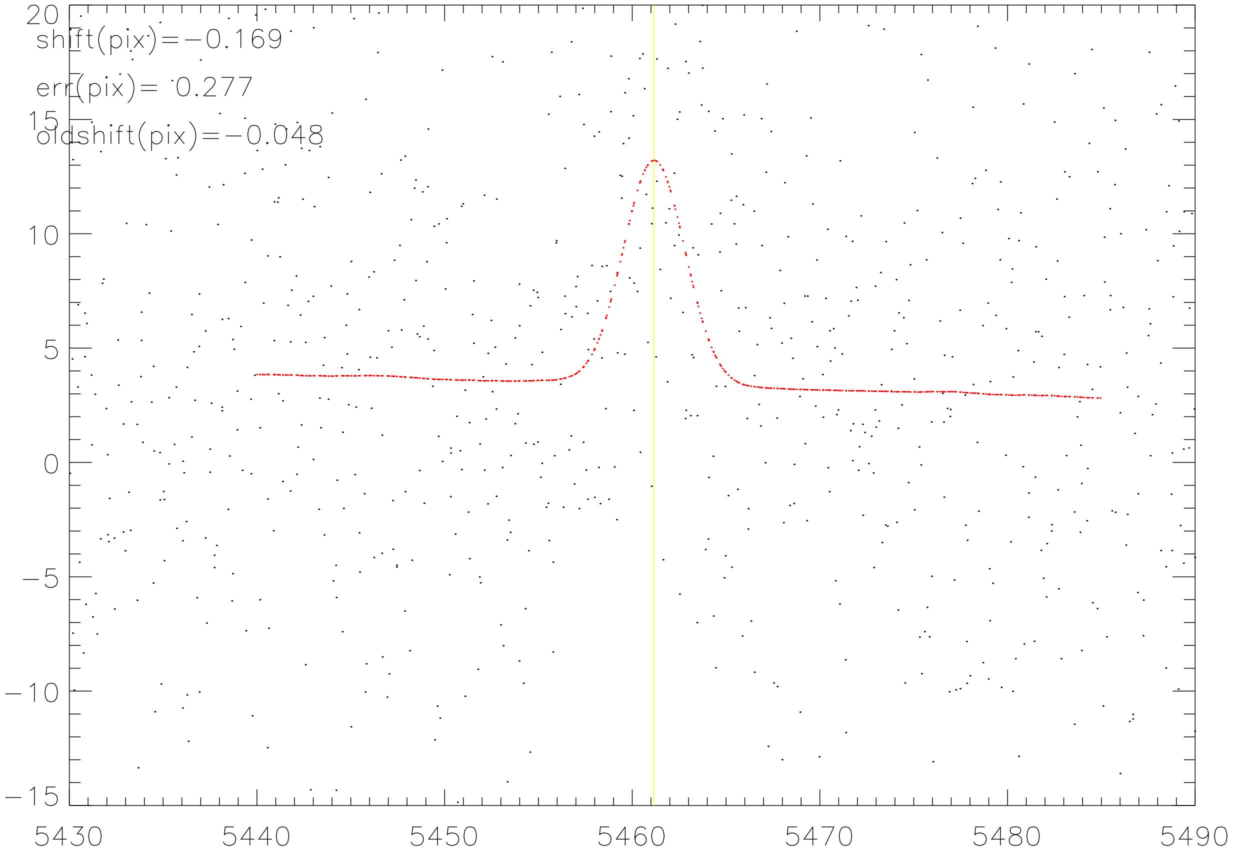

5577.3390
off: 0.13
sig: 0.011
500
400
300
200
100
0
−100
−4
−2
0
2
4


5889.9500
off: 0.21
sig: 0.150
30
20
10
0
−10
−20
−4
−2
0
2
4

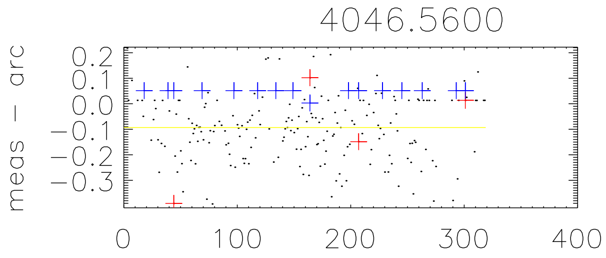

5895.9240
off: 0.28
sig: 0.594
30
20
10
0
−10
−4
−2
0
2
4

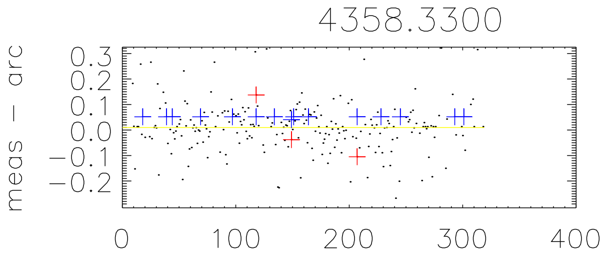

shift(pix)=−3.372
err(pix)= 0.519
oldshift(pix)= 0.450
20
15
10
5
0
−5
−10
−15
4020
4030
4040
4050
4060
4070
4080

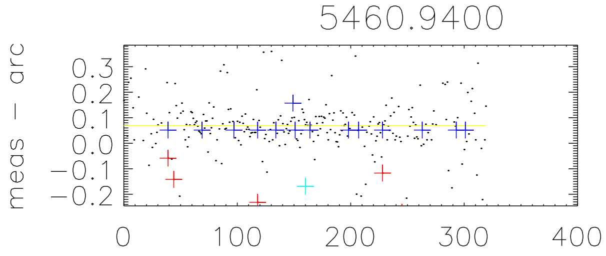

shift(pix)=-0.708
err(pix)= 0.349
oldshift(pix)=-0.084
20
15
10
5
0
−5
−10
−15
4280
4300
4320
4340
4360
4380
4400
4420

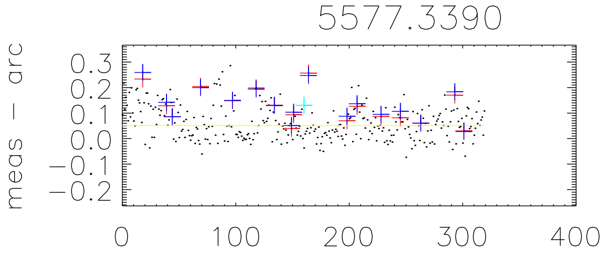


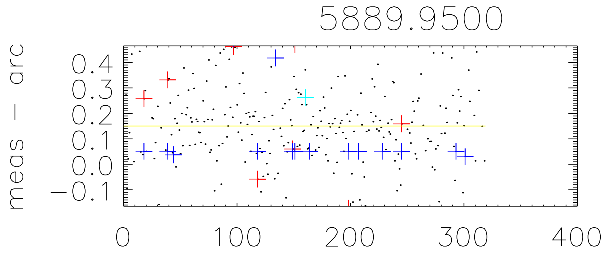
shift(pix)=−0.169
err(pix)= 0.277
oldshift(pix)=−0.048
20
15
10
5
0
−5
−10
−15
5430
5440
5450
5460
5470
5480
5490

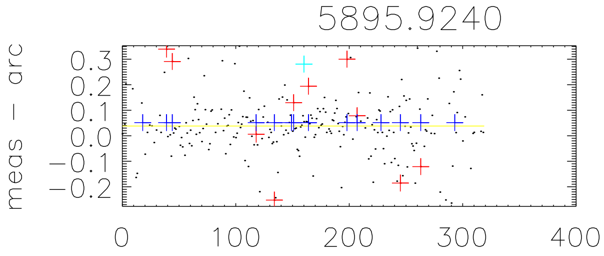

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

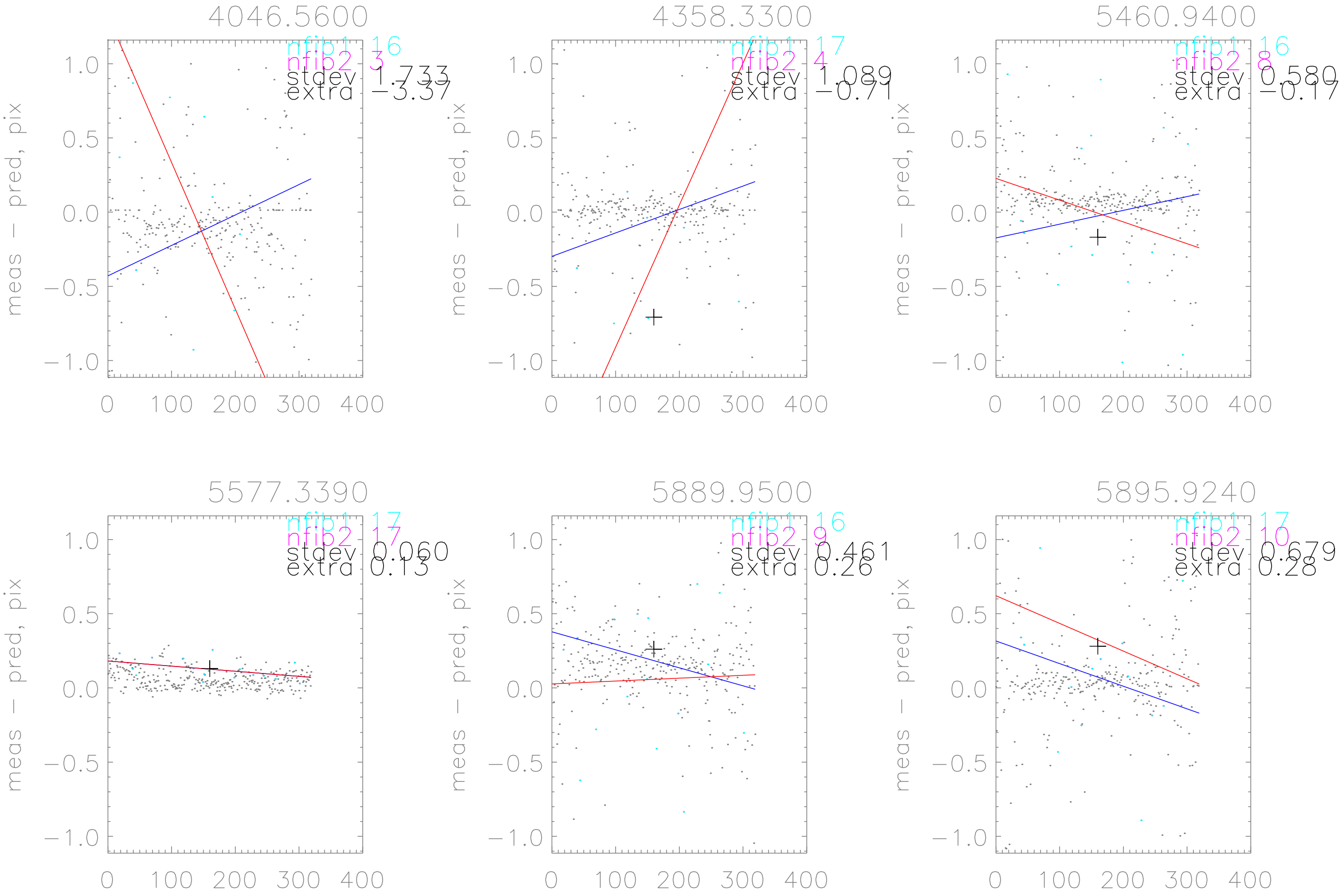

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

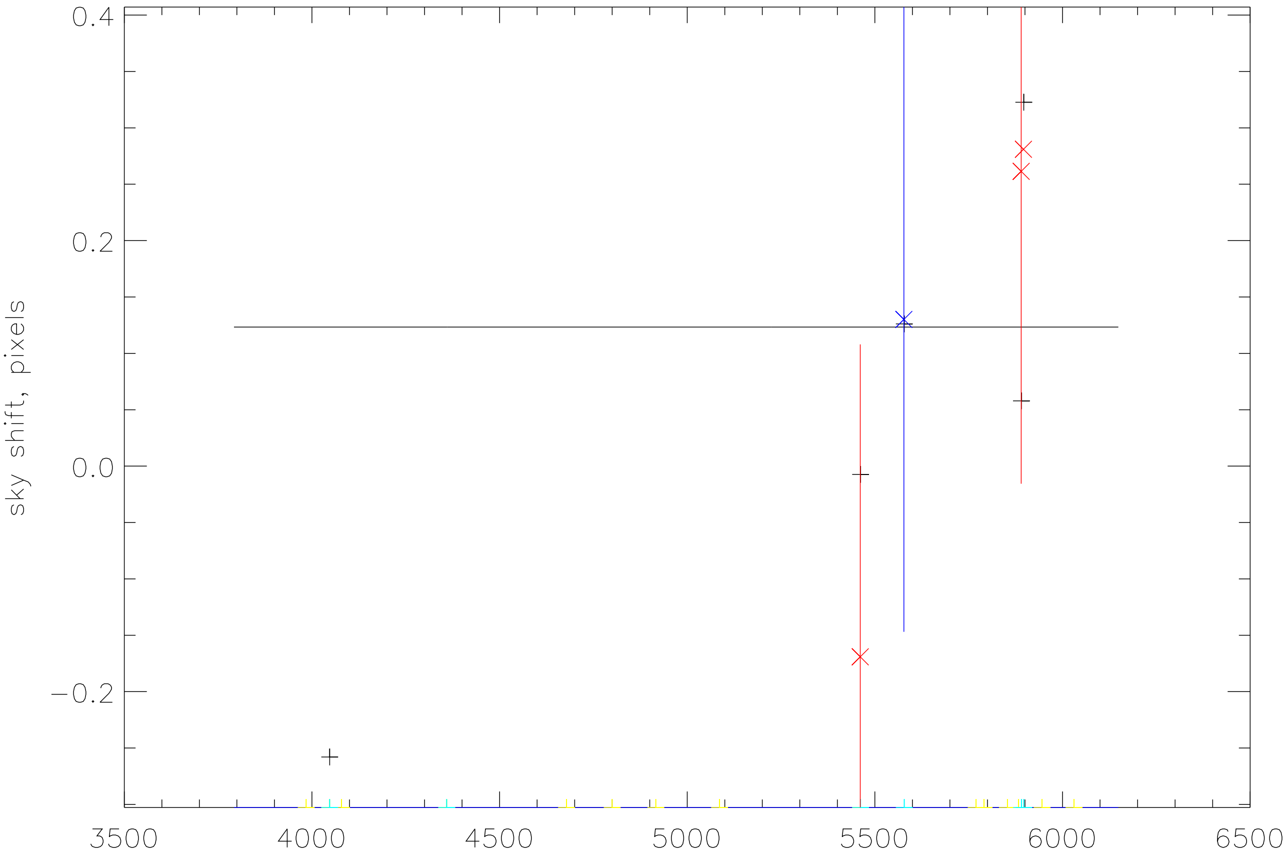

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

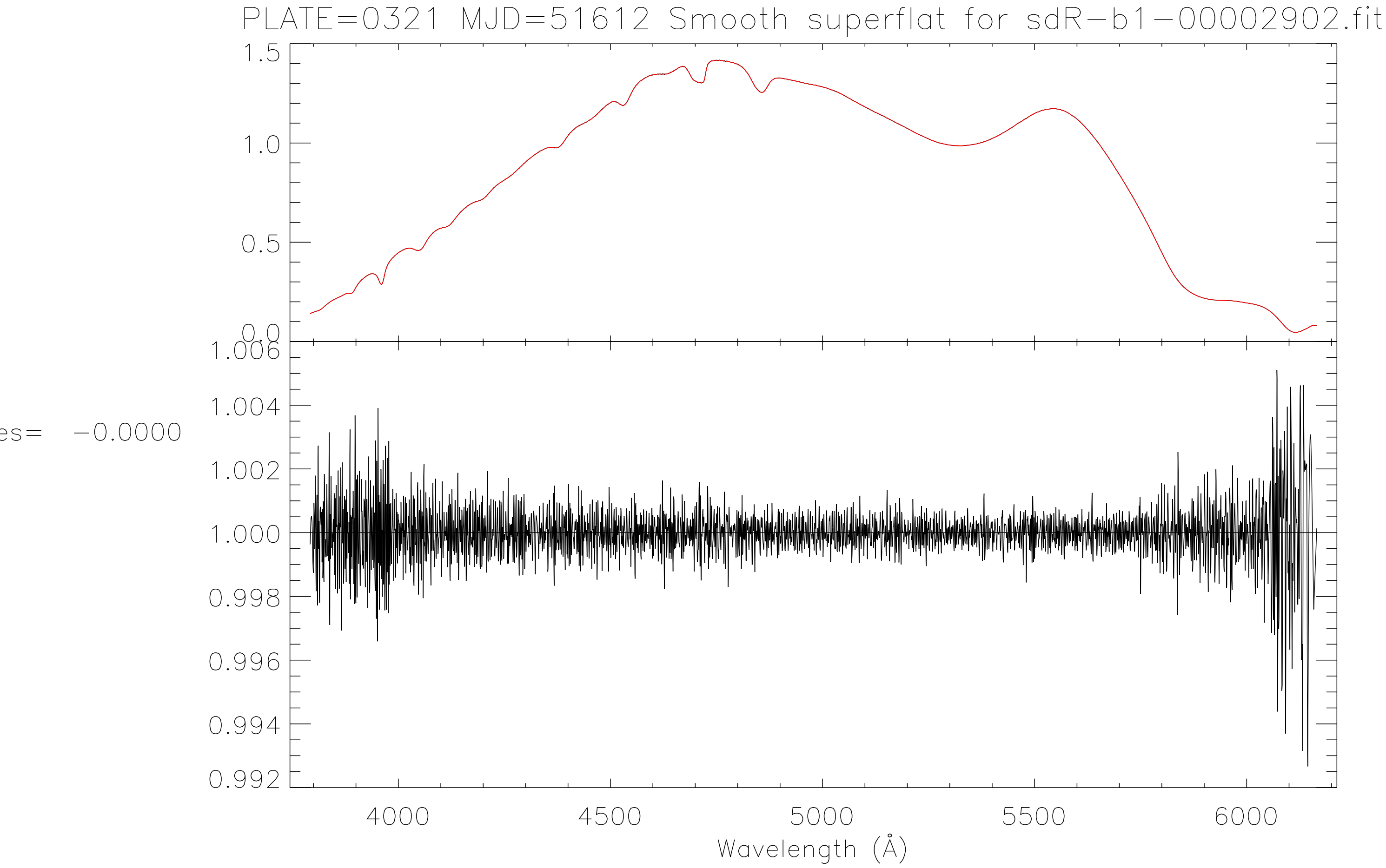

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

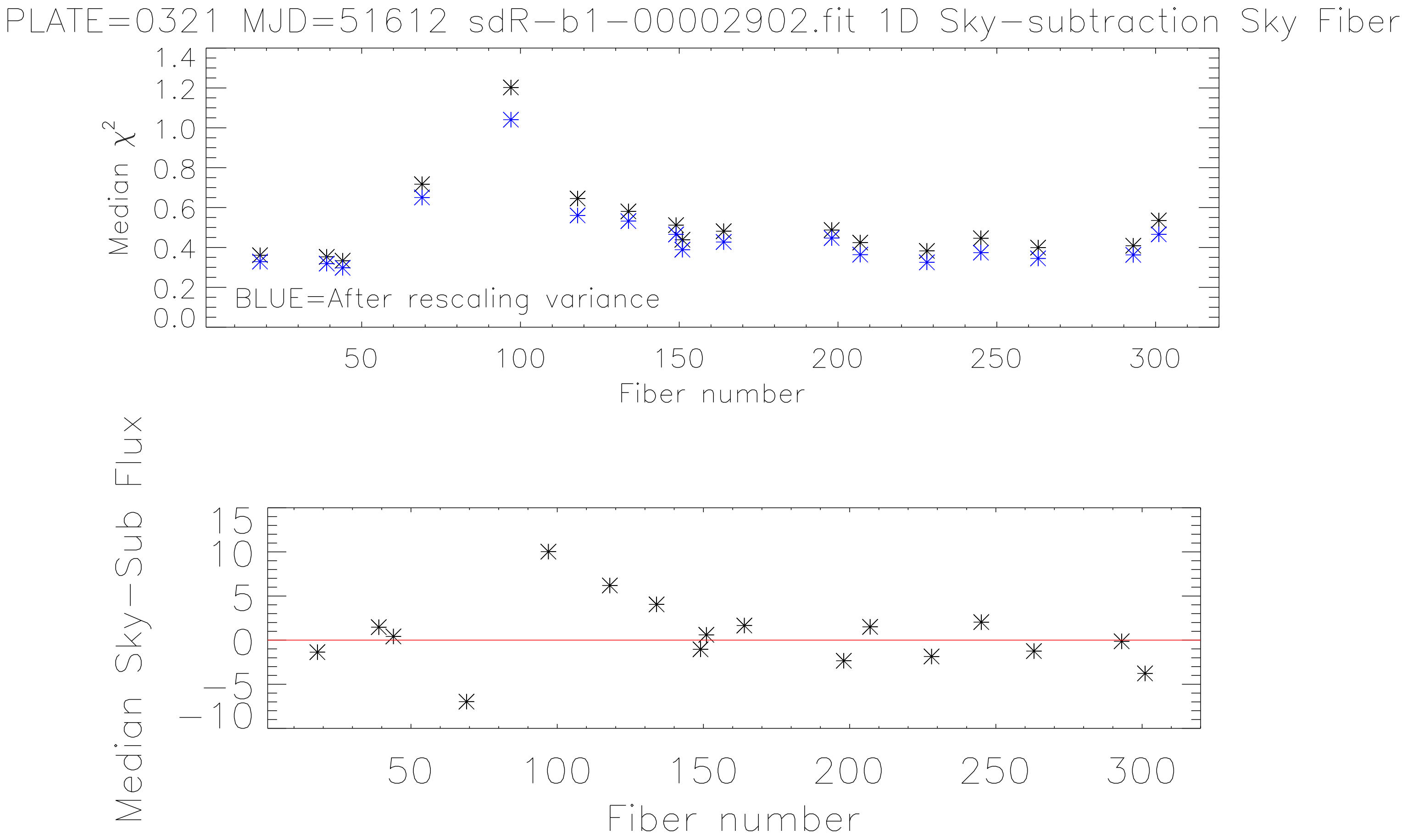

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

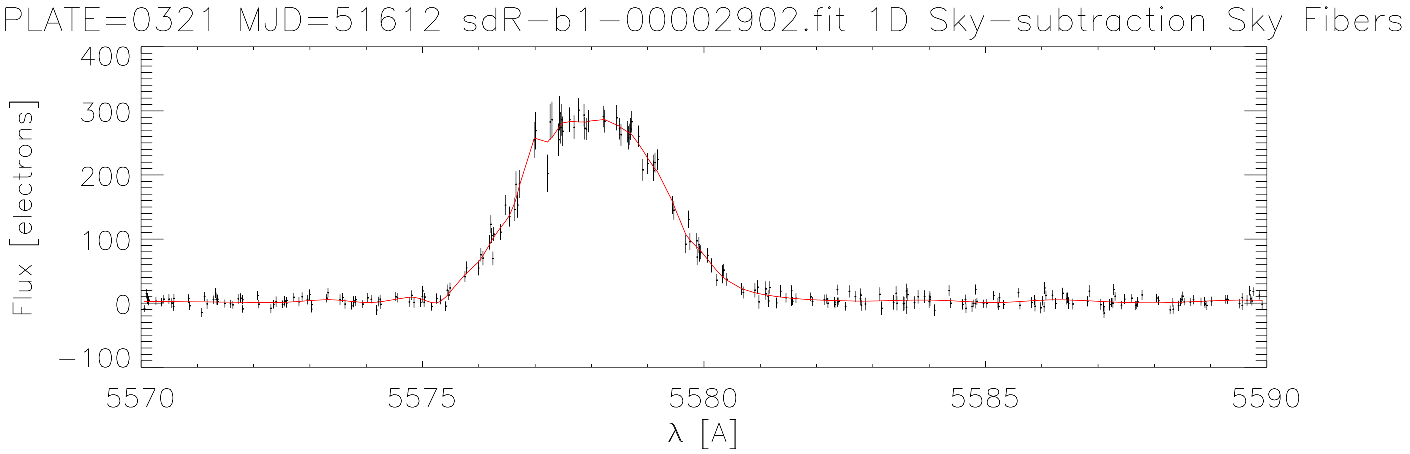

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

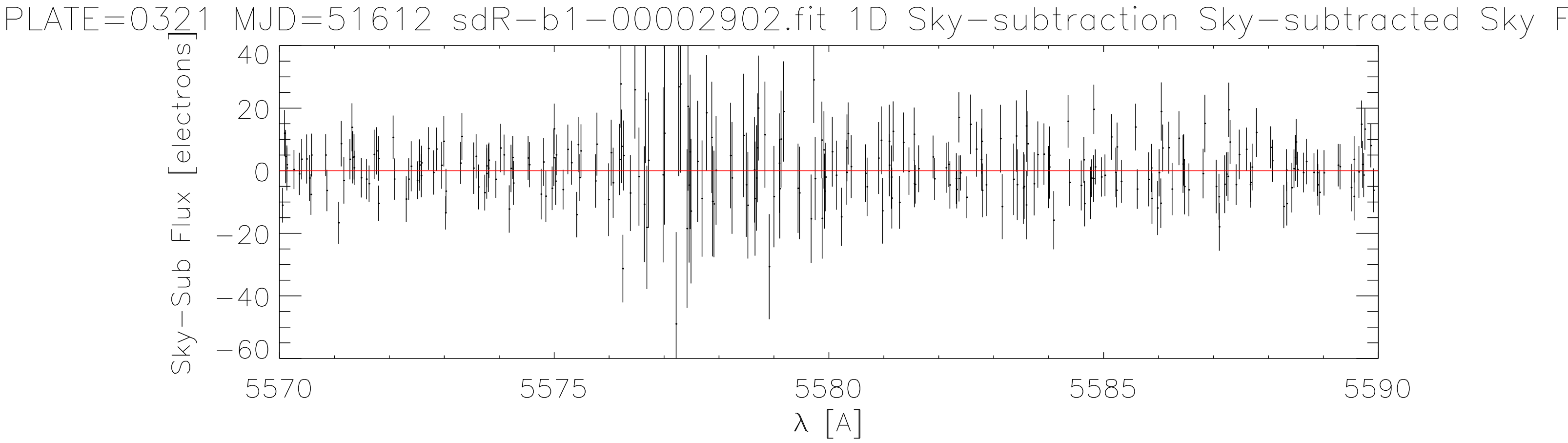

4046.5600
nfib1 16
nfib2 3
stdev 1.733
extra −3.37
4358.3300
nfib1 17
nfib2 4
stdev 1.089
extra −0.71
5460.9400
nfib1 16
nfib2 8
stdev 0.580
extra −0.17
5577.3390
nfib1 17
nfib2 17
stdev 0.060
extra 0.13
5889.9500
nfib1 16
nfib2 9
stdev 0.461
extra 0.26
5895.9240
nfib1 17
nfib2 10
stdev 0.679
extra 0.28
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


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


PLATE=0321 MJD=51612 Smooth superflat for sdR-b1-00002902.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

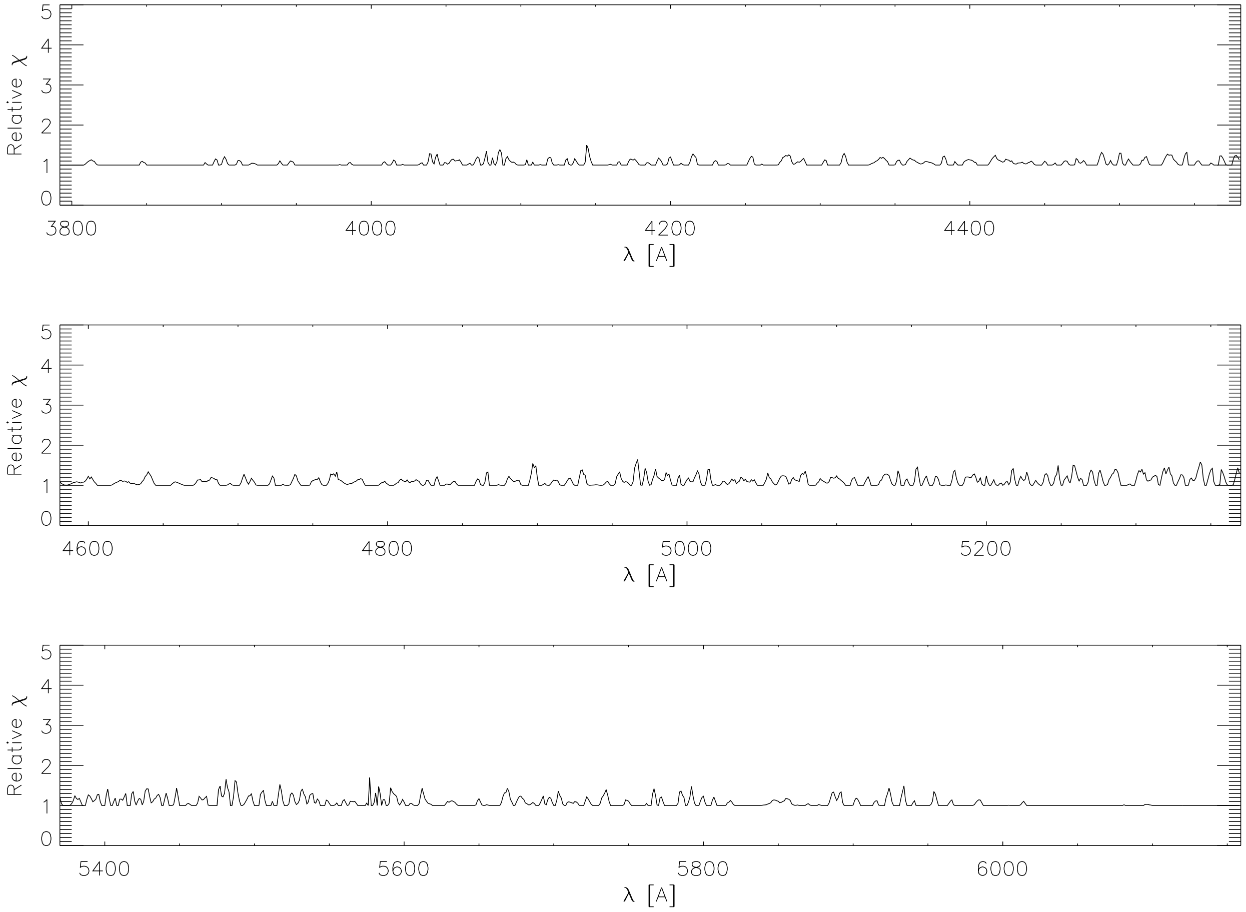

PLATE=0321 MJD=51612 sdR-b1-00002902.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
15
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number


PLATE=0321 MJD=51612 sdR-b1-00002902.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
400
300
200
100
0
−100
5570
5575
5580
5585
5590
λ [A]

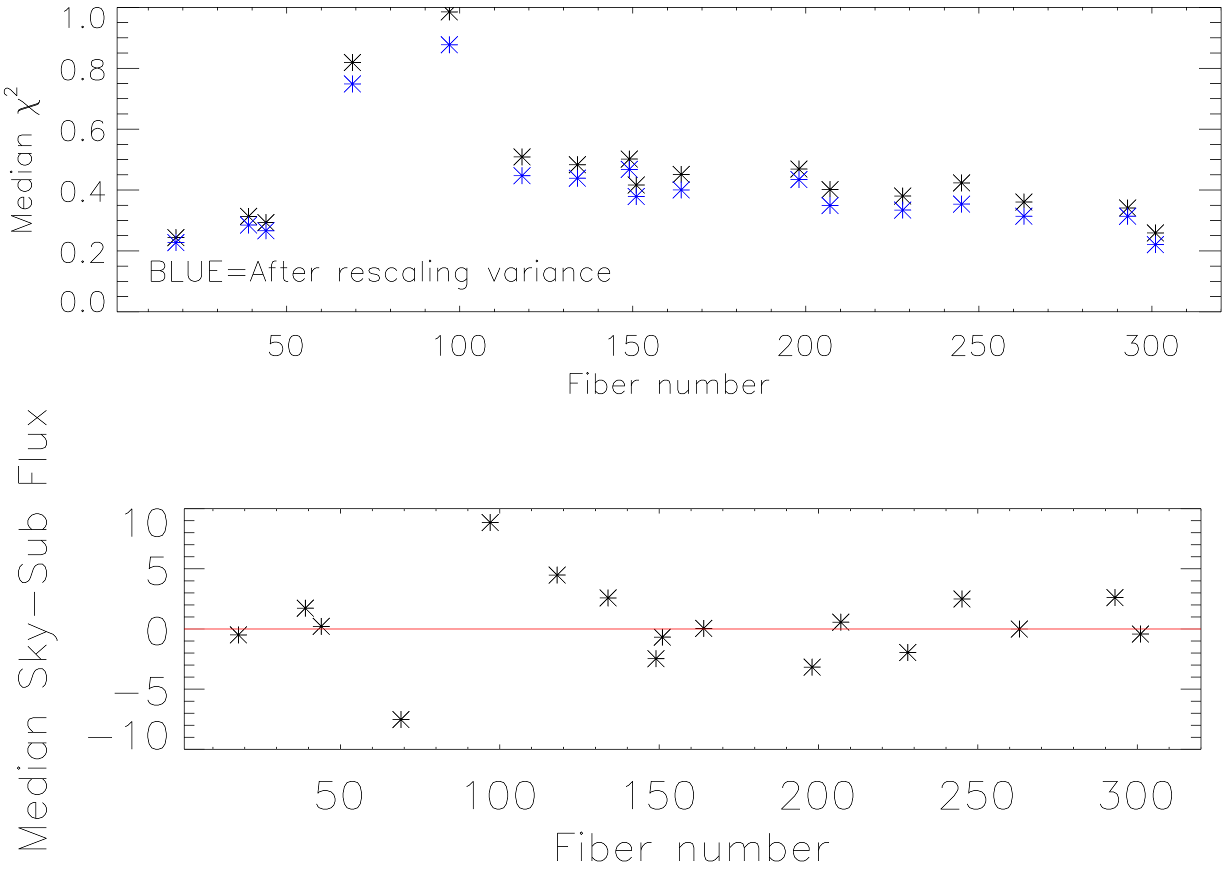

PLATE=0321 MJD=51612 sdR-b1-00002902.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
40
20
0
−20
−40
−60
5570
5575
5580
5585
5590
λ [A]

Number of sky fibers = 17

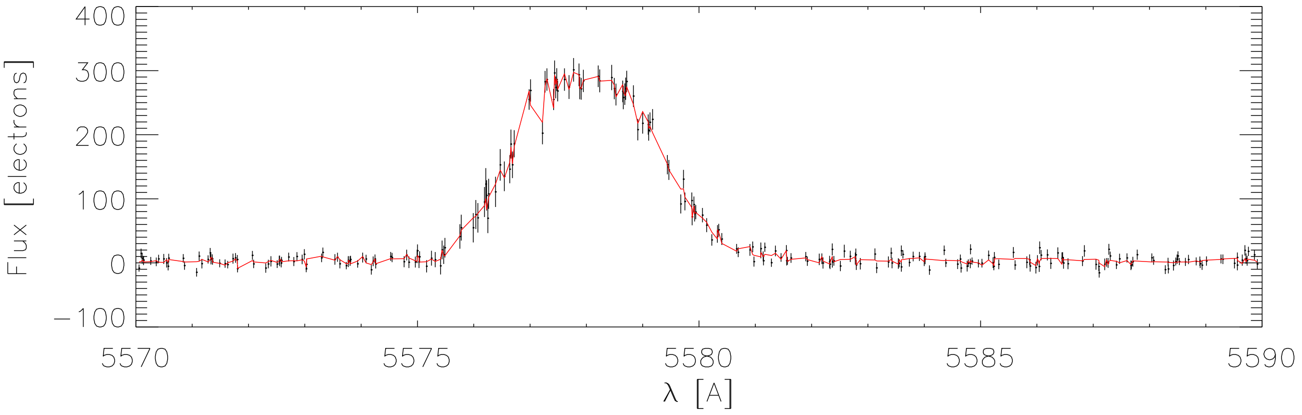
PLATE=0321 MJD=51612 sdR-b1-00002902.fit 1D Sky-subtraction Rescaled Errors



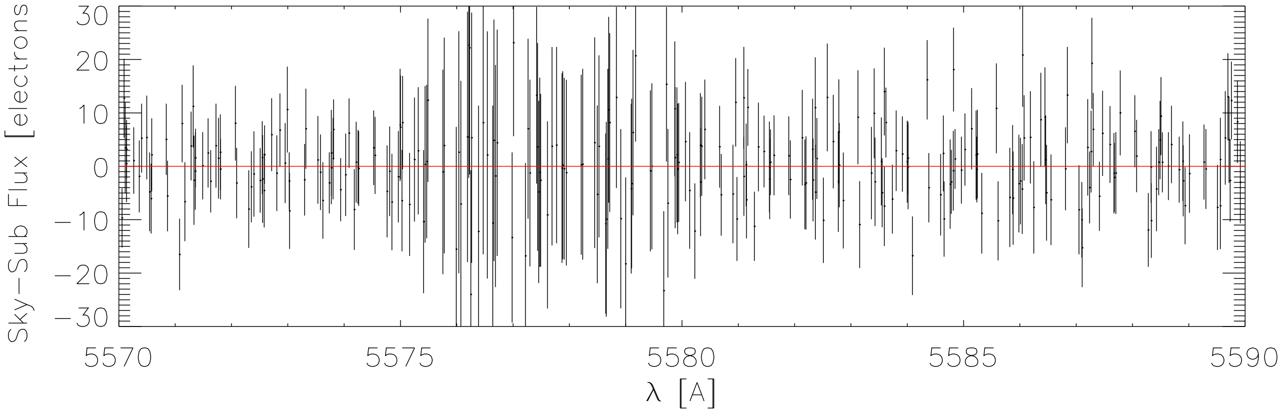
PLATE=0321 MJD=51612 sdR-b1-00002902.fit 2D Sky-subtraction Sky Fiber



PLATE=0321 MJD=51612 sdR-b1-00002902.fit 2D Sky-subtraction Sky Fibers

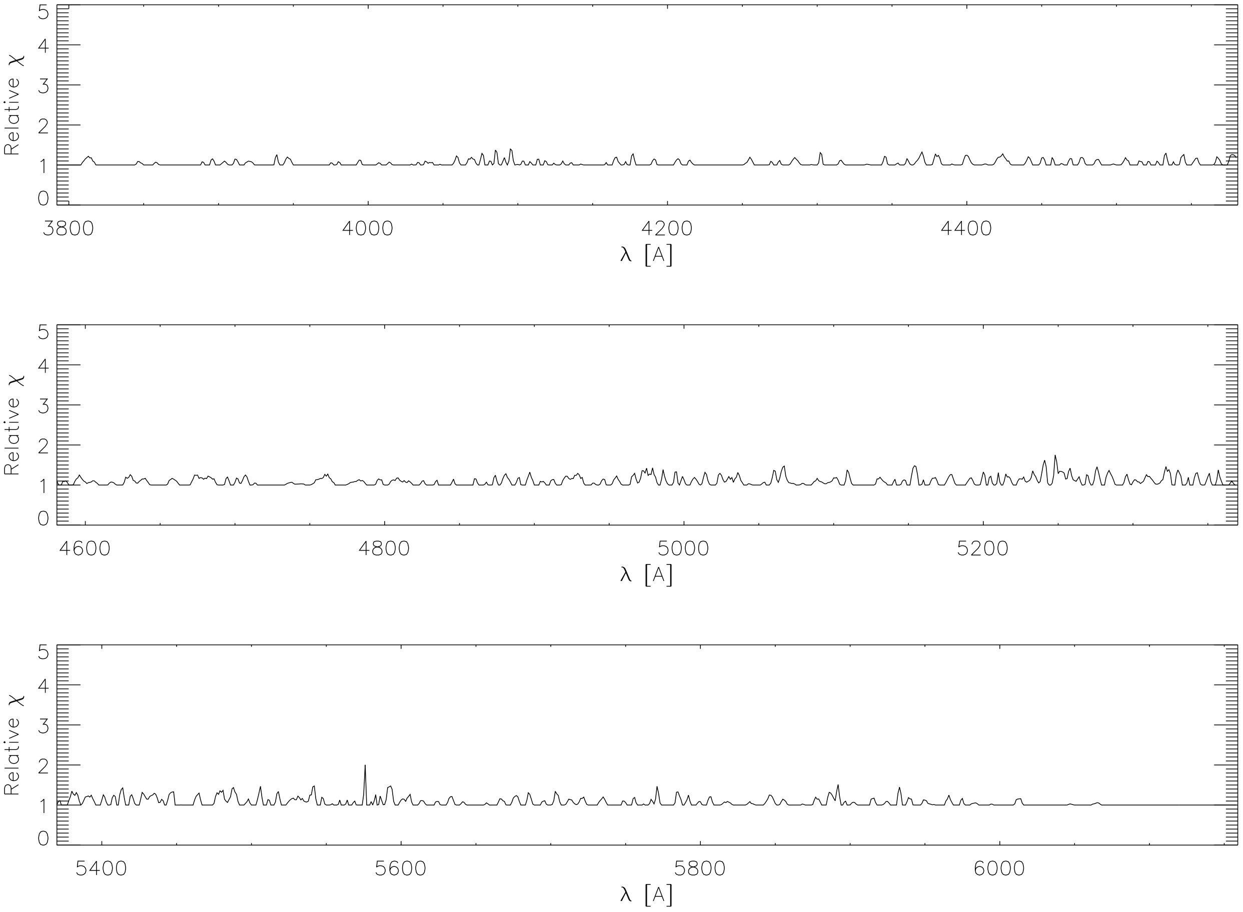


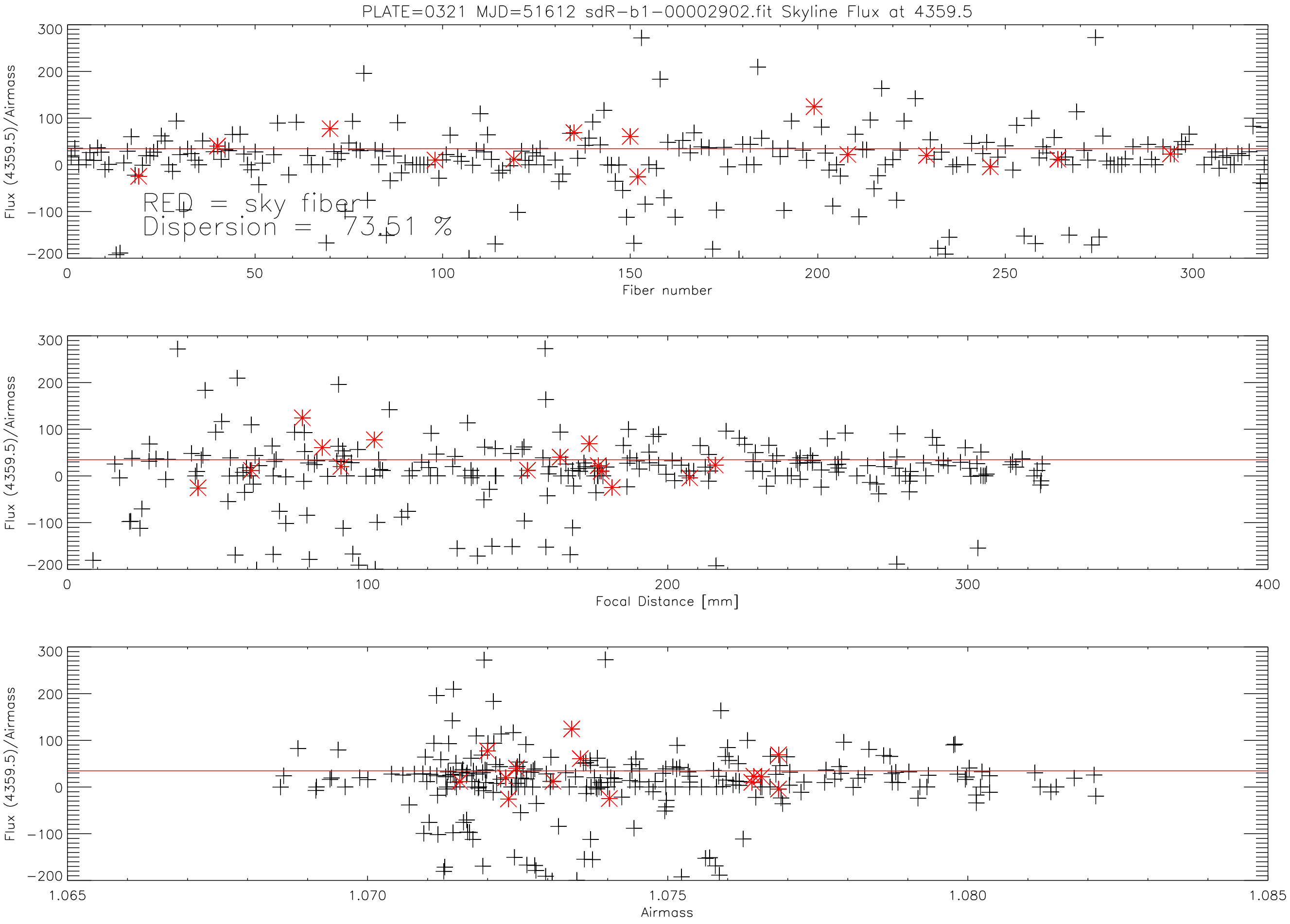
PLATE=0321 MJD=51612 sdR-b1-00002902.fit 2D Sky-subtraction Sky-subtracted Sky F

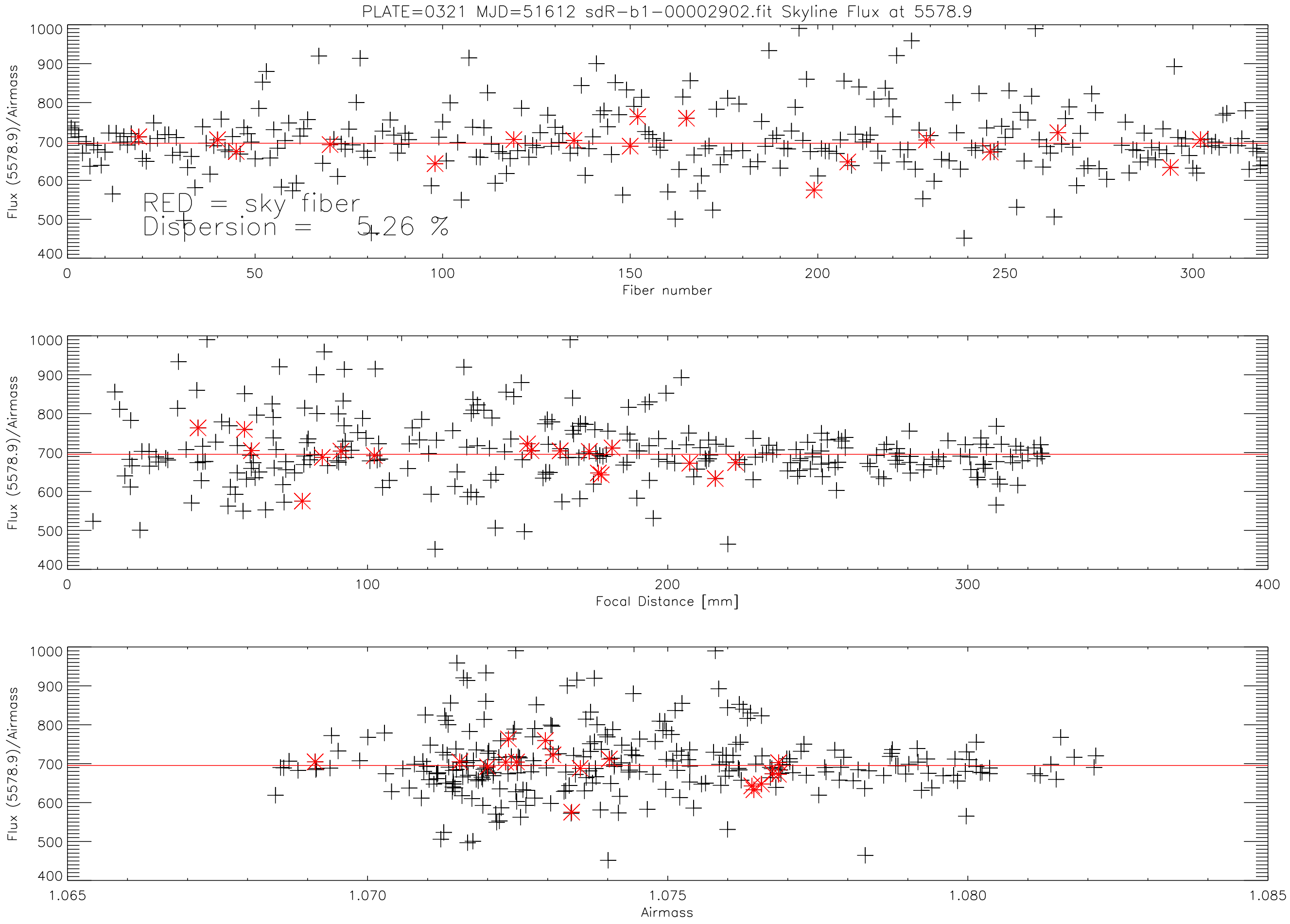


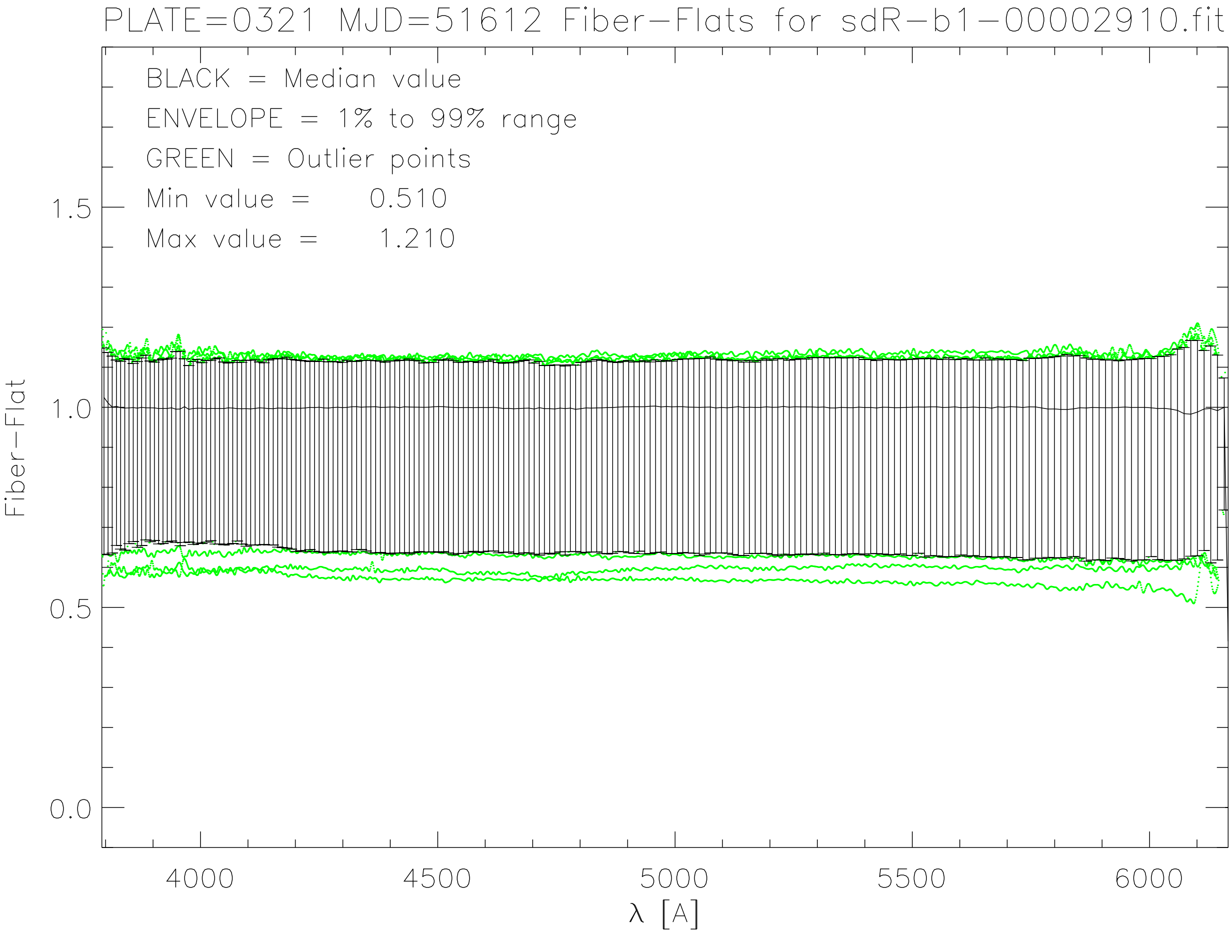
Number of sky fibers = 17

PLATE=0321 MJD=51612 sdR-b1-00002902.fit 2D Sky-subtraction Rescaled Errors



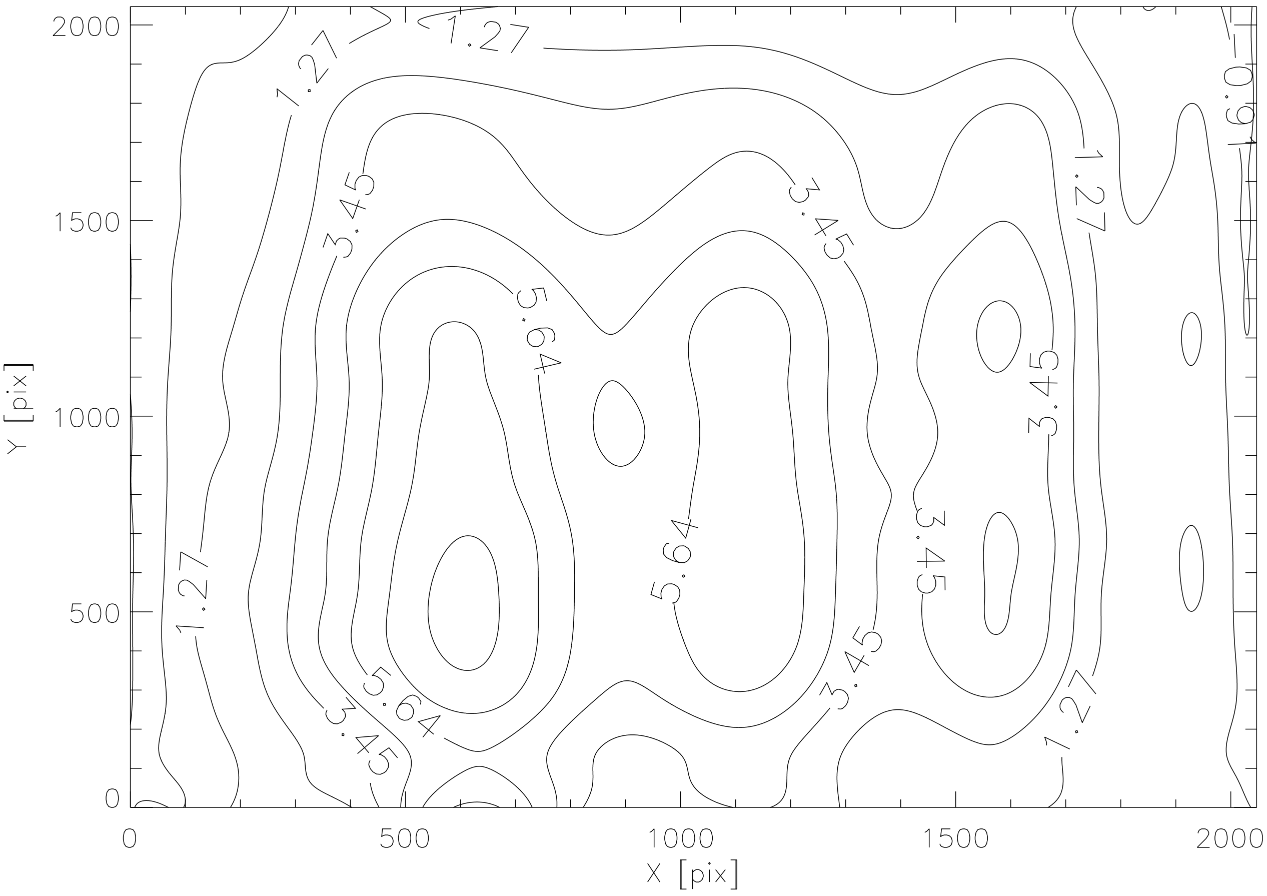

PLATE=0321 MJD=51612 sdR-b1-00002902.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 73.51 %
Flux (4359.5)/Airmass
300
200
100
0
−100
−200
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
1.065
1.070
1.075
1.080
1.085
Airmass

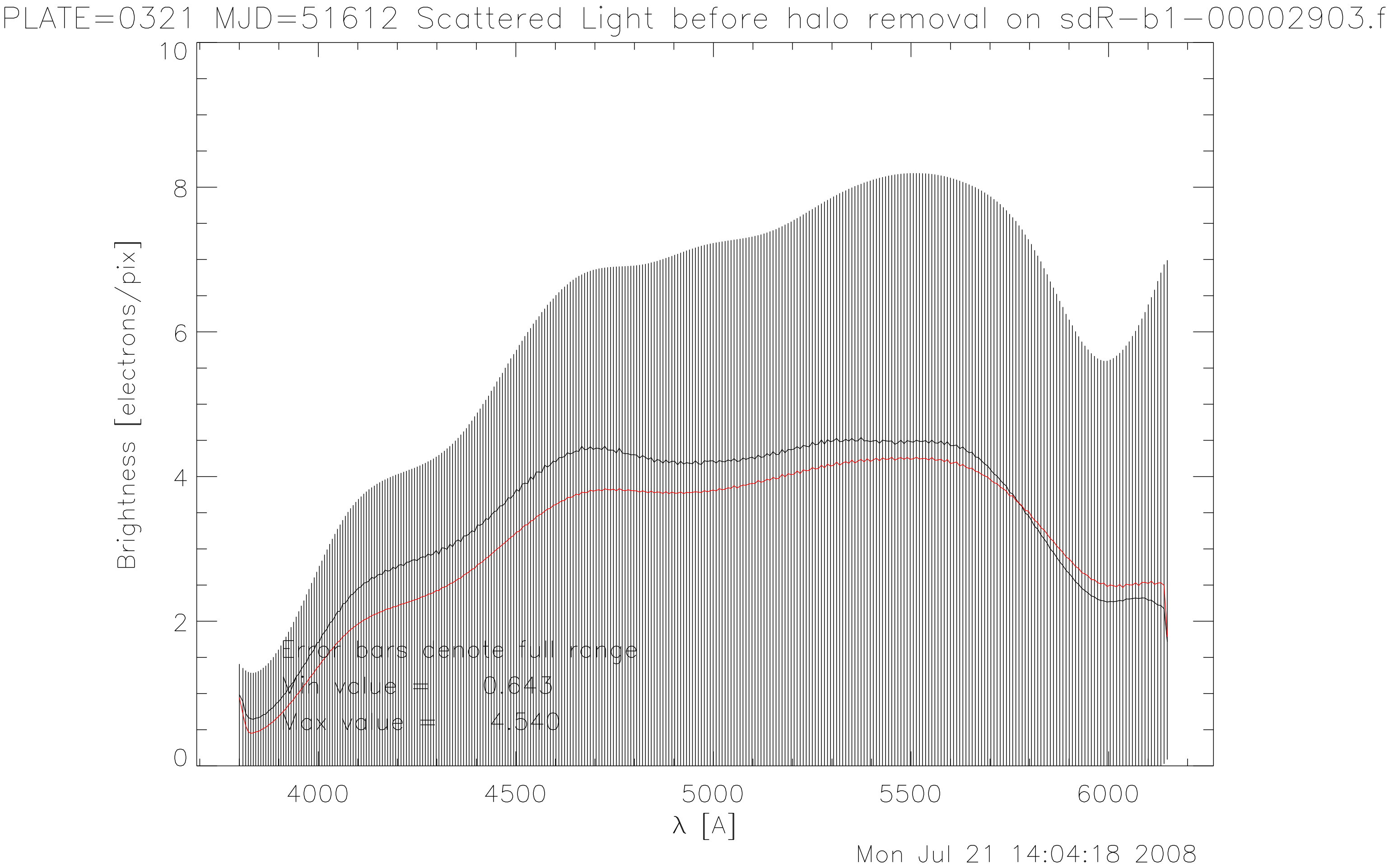

PLATE=0321 MJD=51612 sdR-b1-00002902.fit Skyline Flux at 5578.9
RED = sky fiber
Dispersion = 5.26 %
Flux (5578.9)/Airmass
1000
900
800
700
600
500
400
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.065
1.070
1.075
1.080
1.085
Airmass

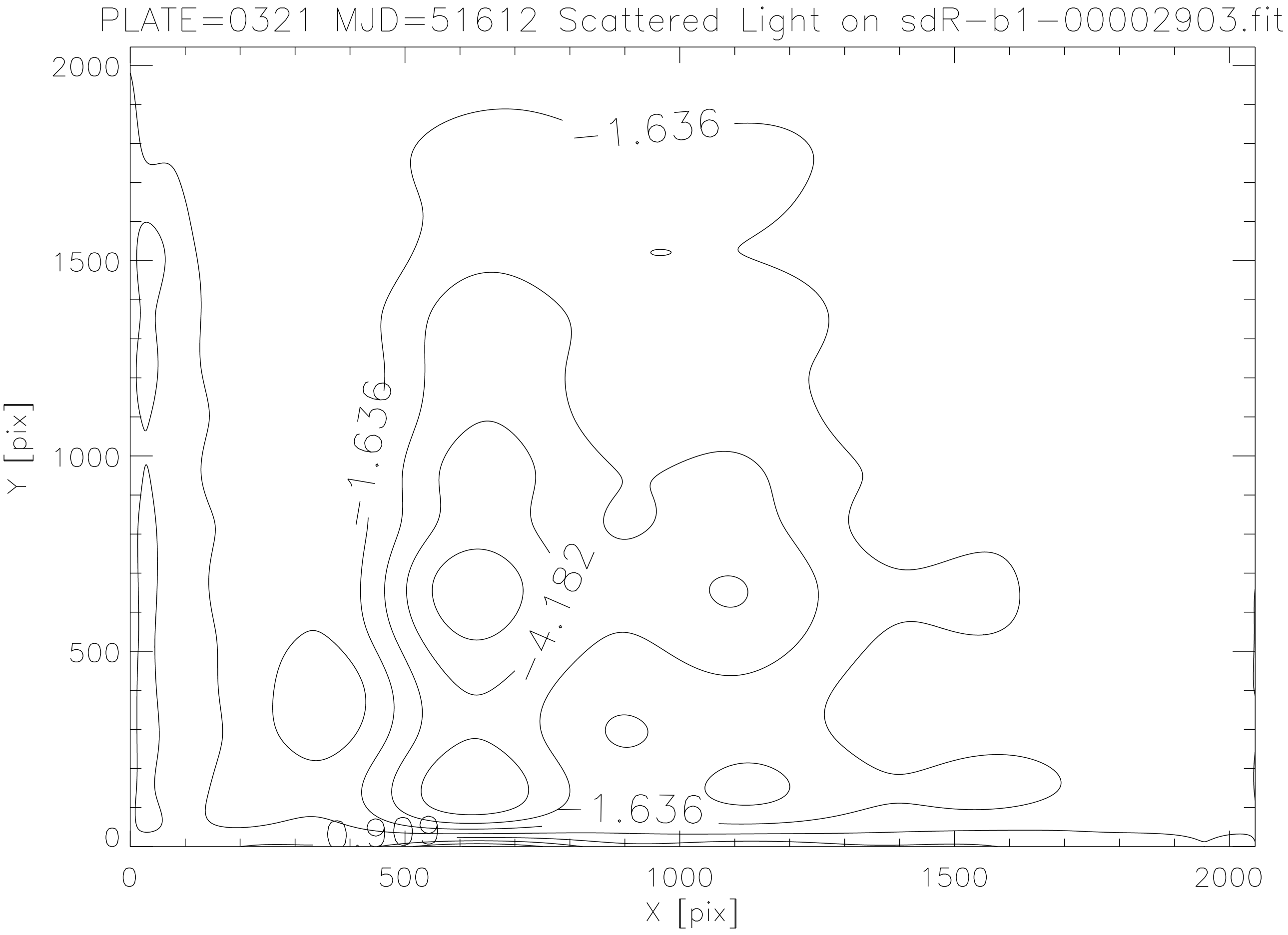


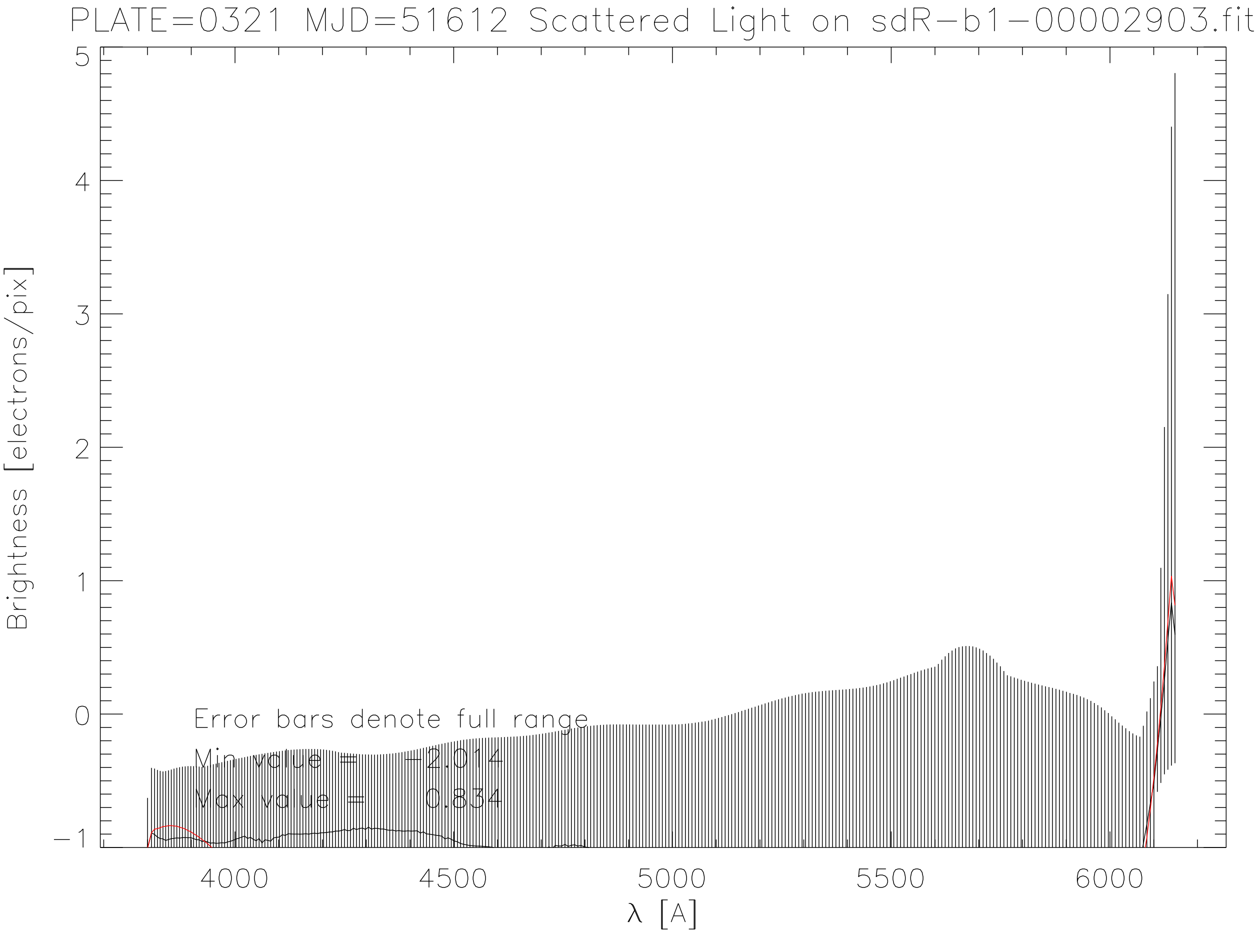
Mon Jul 21 14:03:33 2008

PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002903.f

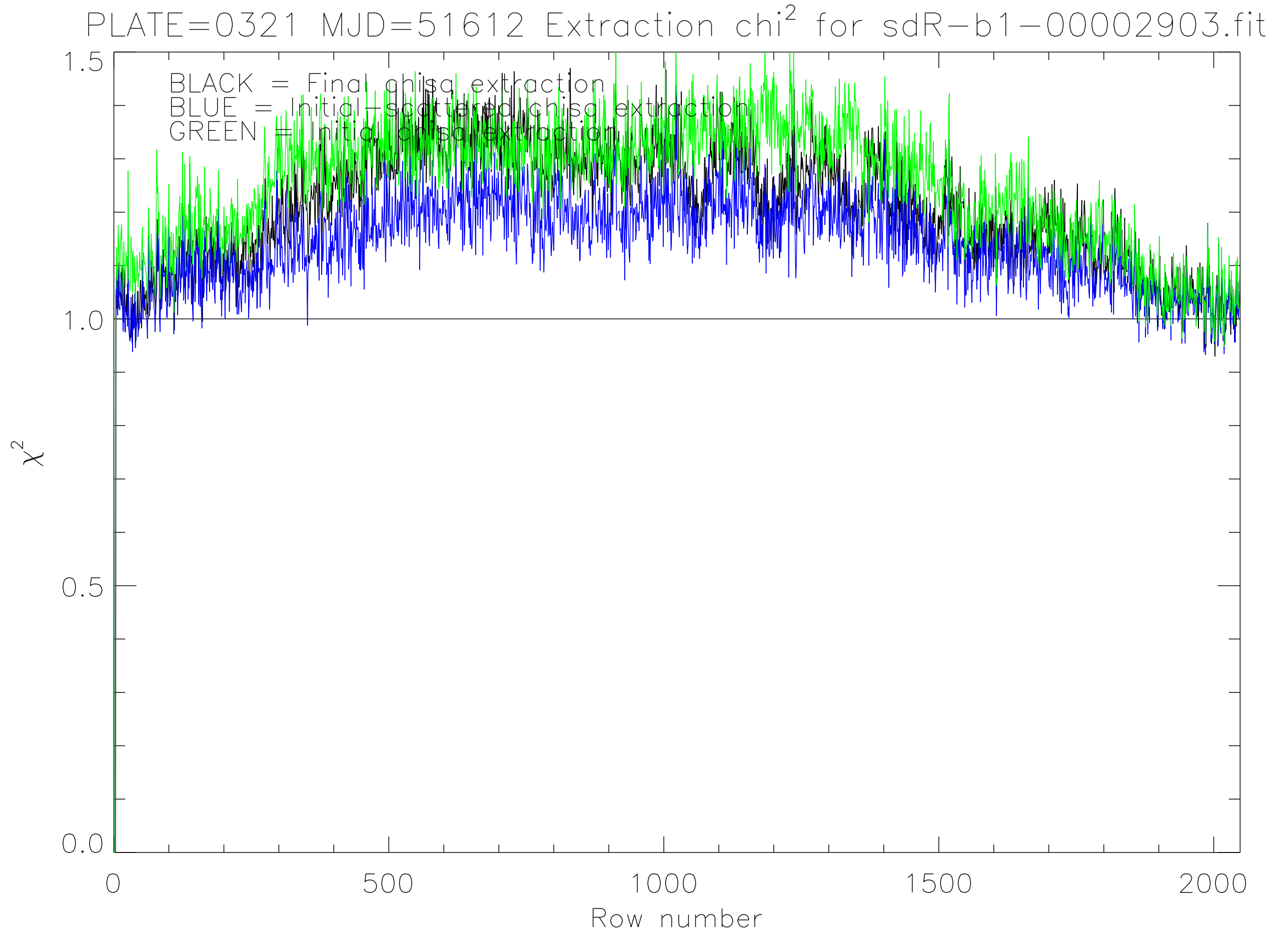


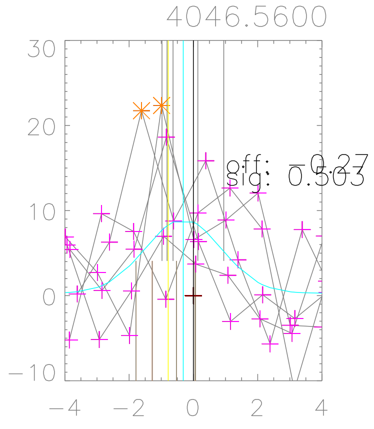

PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002903.f
Brightness [electrons/pix]
0
2
4
6
8
10
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 0.643
Max value = 4.540
Mon Jul 21 14:04:18 2008

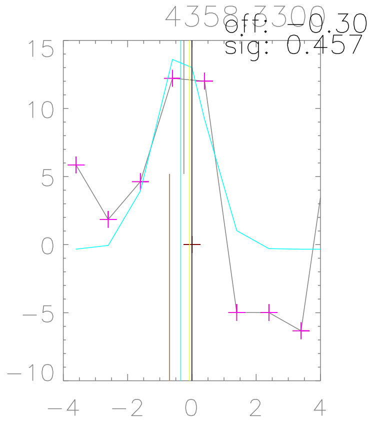

PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002903.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0
500
1000
1500
2000
1.636
1.636
4.182
1.636
0.909

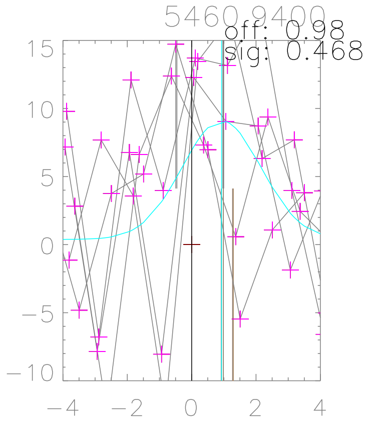


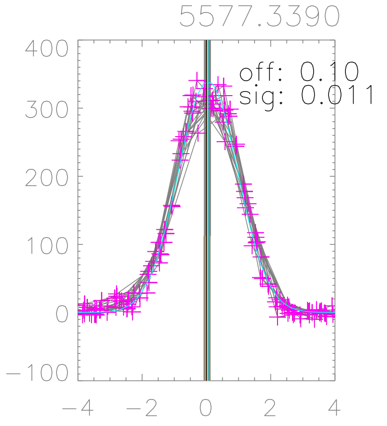
Mon Jul 21 14:07:16 2008

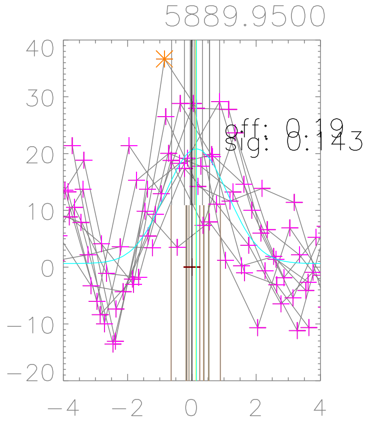

PLATE=0321 MJD=51612 Extraction chi^2 for sdR-b1-00002903.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0.0
0.5
1.0
1.5
0
500
1000
1500
2000
Row number

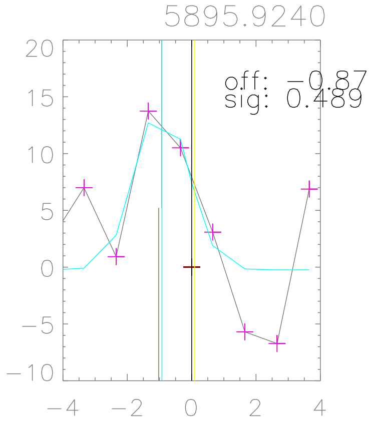

4046.5600
off: −0.27
sig: 0.503
30
20
10
0
−10
−4
−2
0
2
4

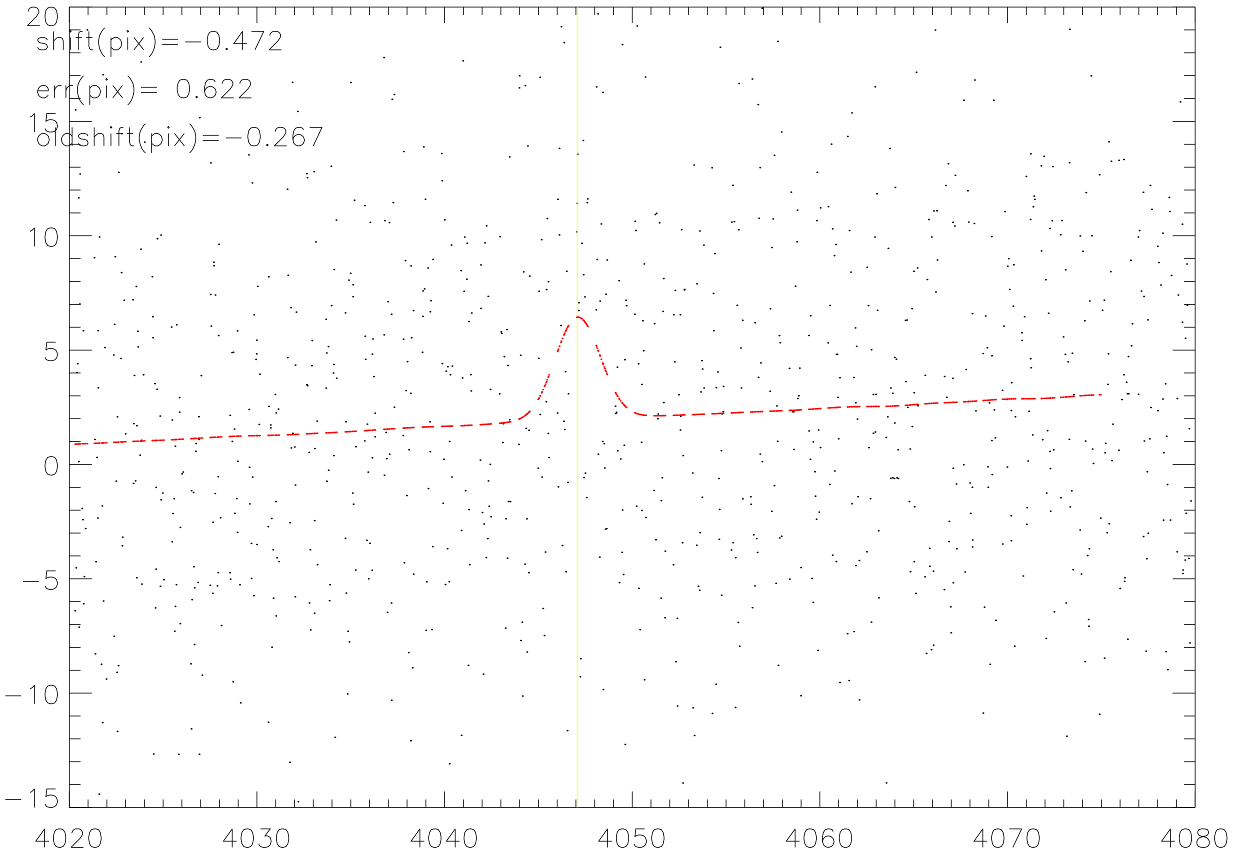

4358.3300
off: −0.30
sig: 0.457
15
10
5
0
−5
−10
−4
−2
0
2
4

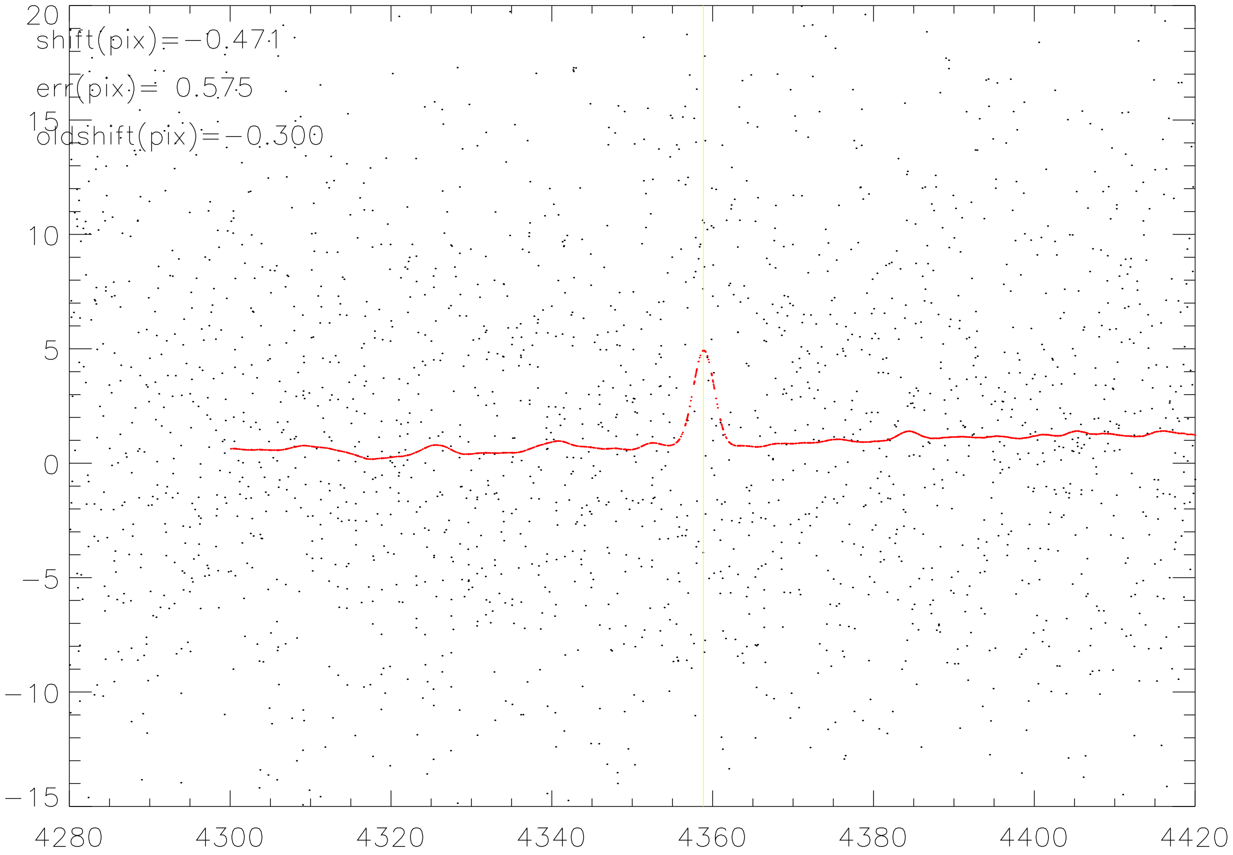

5460.9400
off: 0.98
sig: 0.468
15
10
5
0
−5
−10
−4
−2
0
2
4

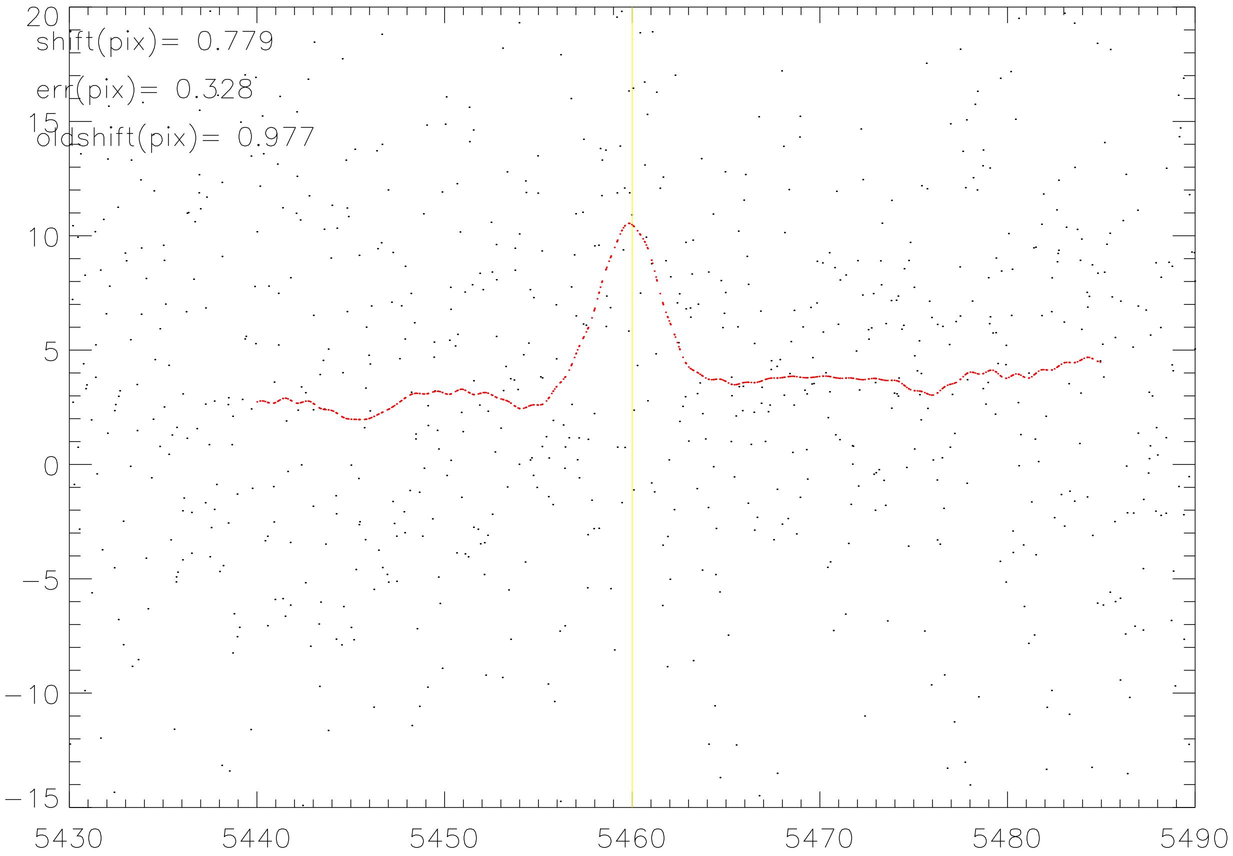

5577.3390
off: 0.10
sig: 0.011
400
300
200
100
0
−100
−4
−2
0
2
4

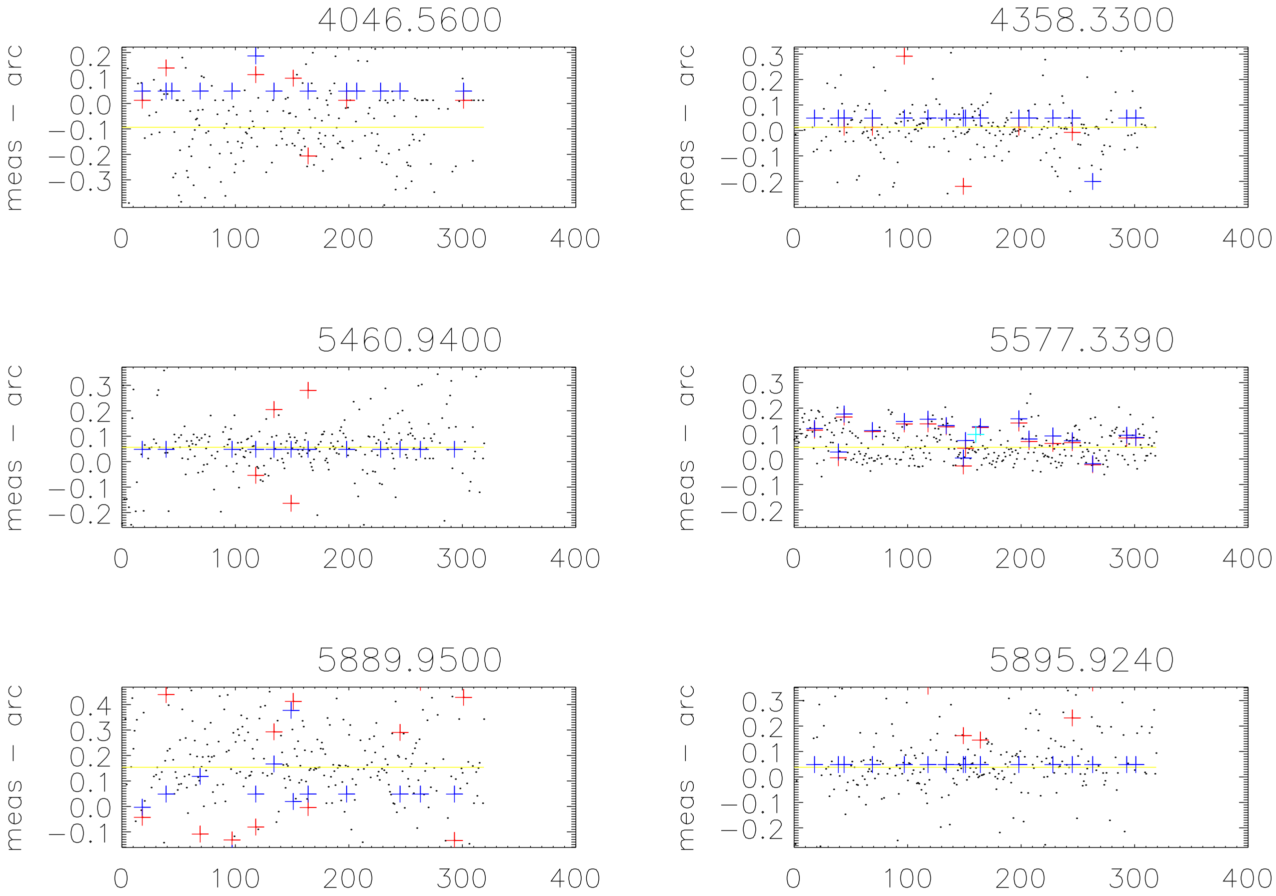

5889.9500
off: 0.19
sig: 0.143
40
30
20
10
0
−10
−20
−4
−2
0
2
4

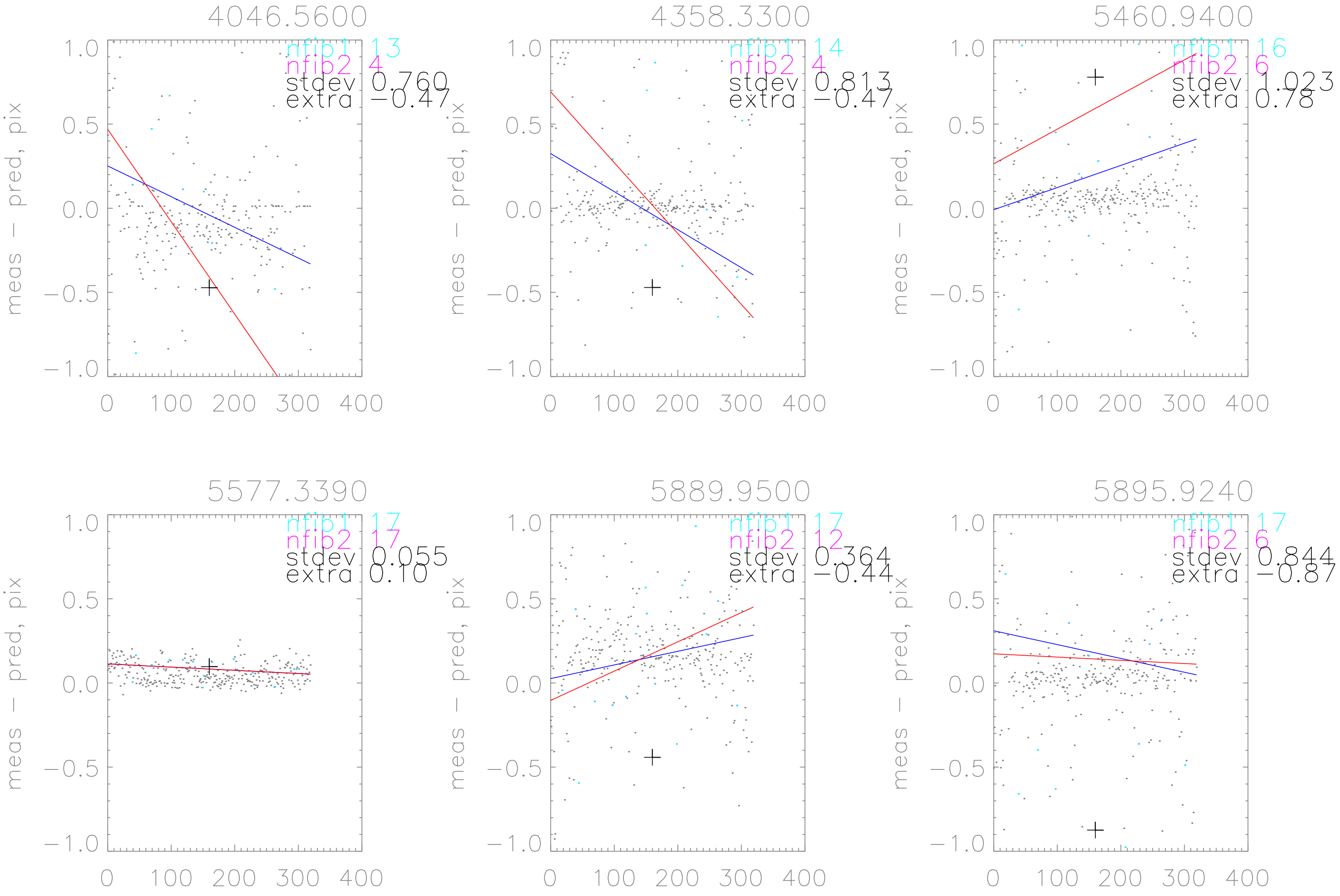

5895.9240
off: −0.87
sig: 0.489
20
15
10
5
0
−5
−10
−4
−2
0
2
4

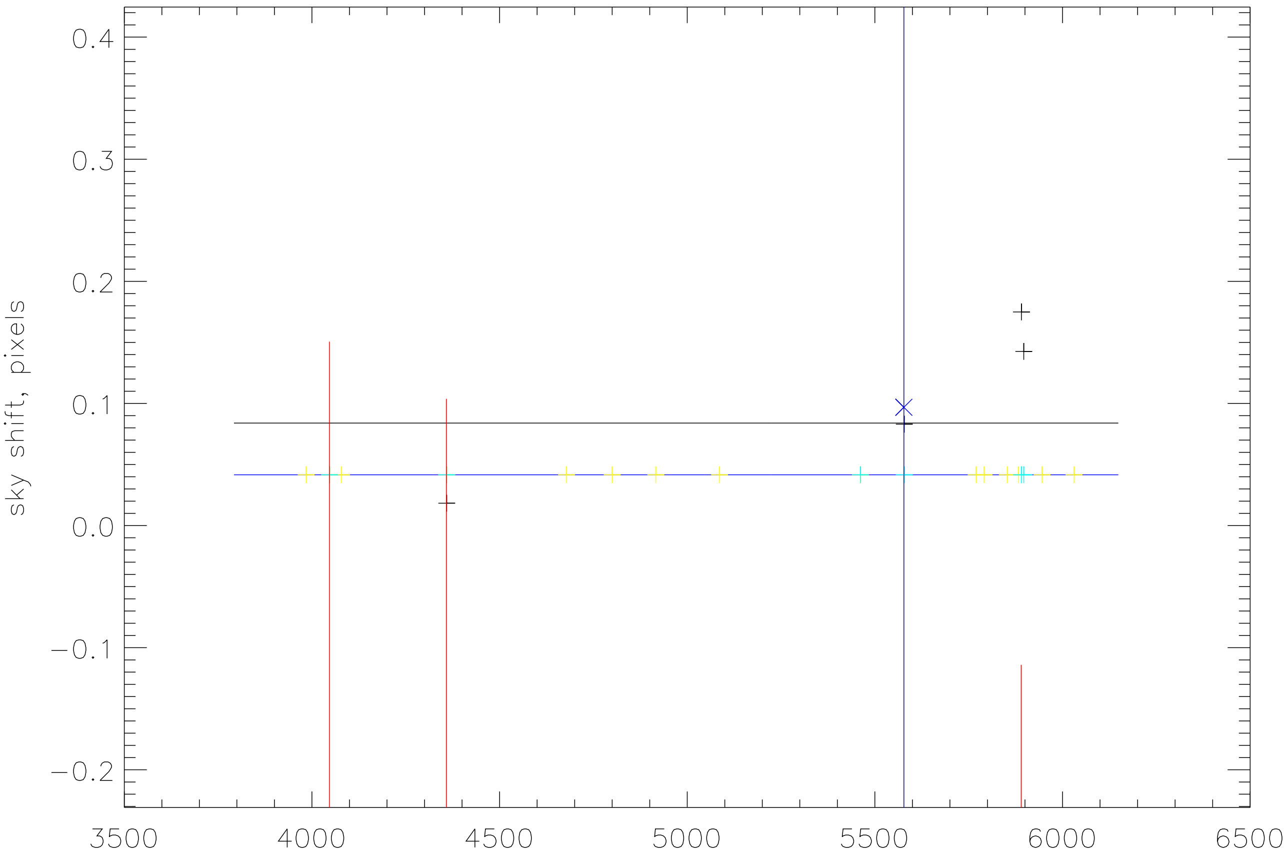

shift(pix)=−0.472
err(pix)= 0.622
oldshift(pix)=−0.267
20
15
10
5
0
−5
−10
−15
4020
4030
4040
4050
4060
4070
4080

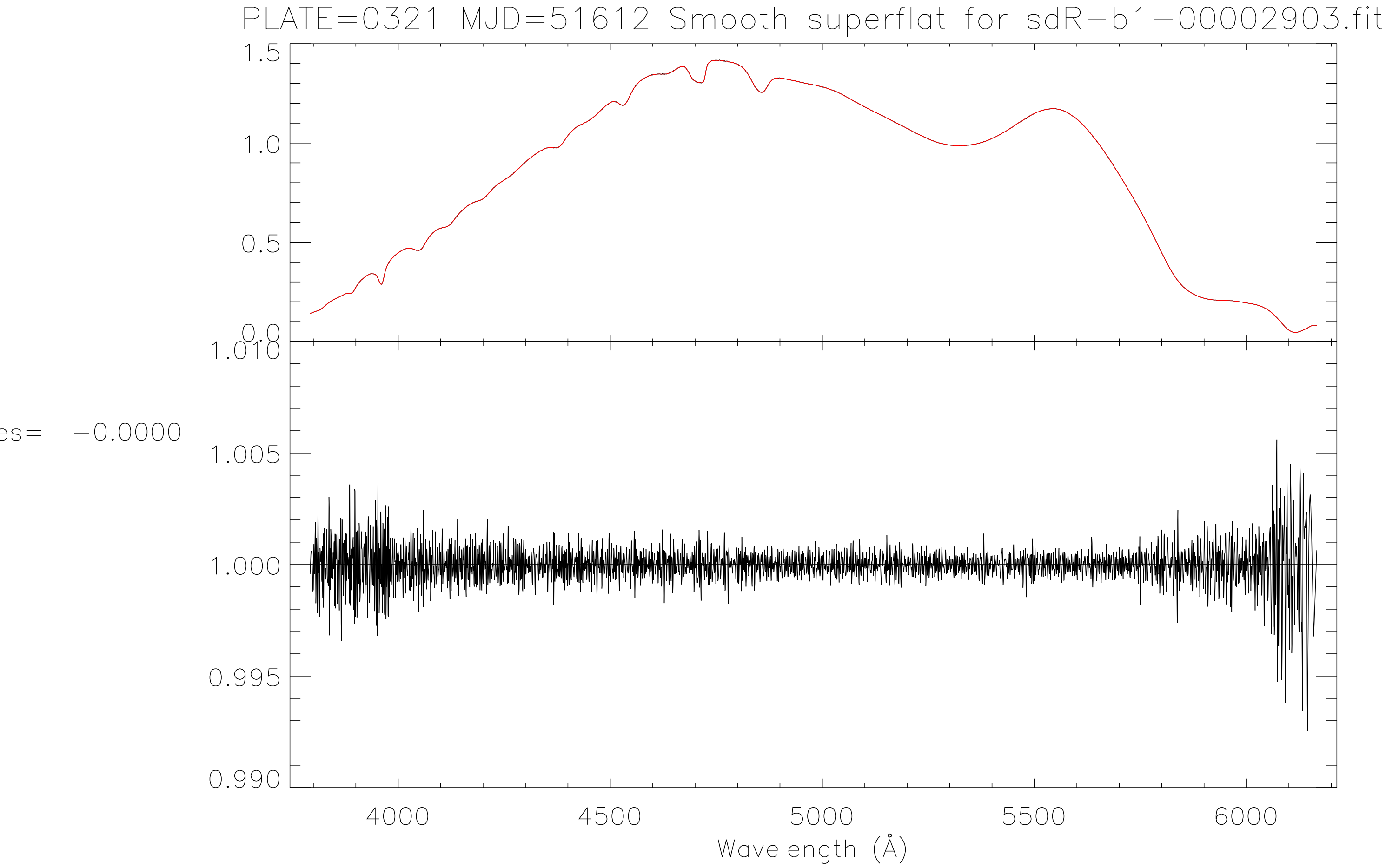

shift(pix)=−0.471
err(pix)= 0.575
oldshift(pix)=−0.300
20
15
10
5
0
−5
−10
−15
4280
4300
4320
4340
4360
4380
4400
4420

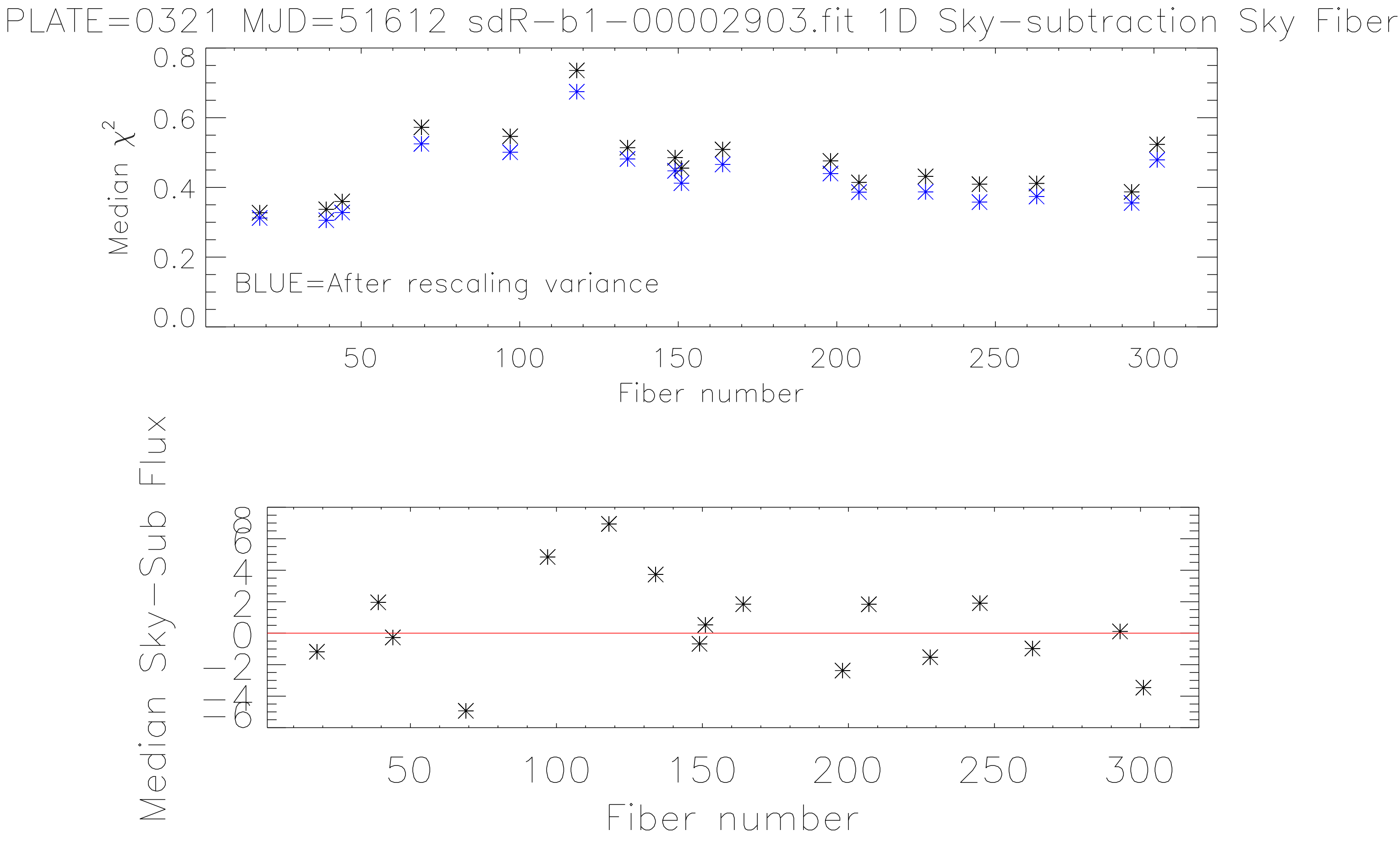

shift(pix)= 0.779
err(pix)= 0.328
oldshift(pix)= 0.977
20
15
10
5
0
−5
−10
−15
5430
5440
5450
5460
5470
5480
5490

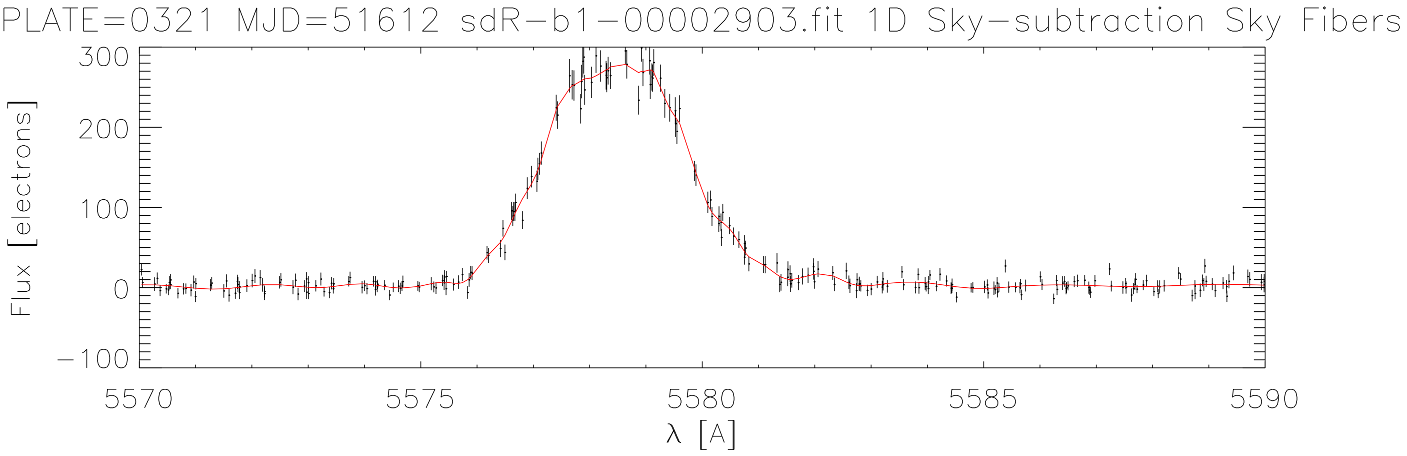

4046.5600
4358.3300
5460.9400
5577.3390
5889.9500
5895.9240
meas − arc
0
100
200
300
400
0.2
0.1
0.0
−0.1
−0.2
−0.3
0.3
0.4

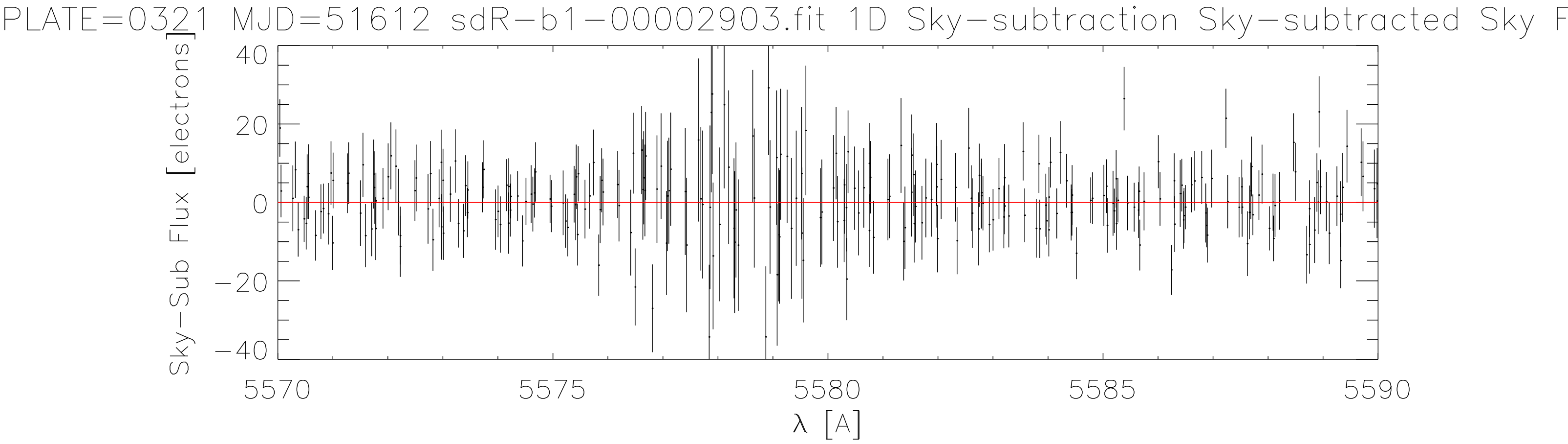

4046.5600
nfib1 13
nfib2 4
stdev 0.760
extra −0.47
4358.3300
nfib1 14
nfib2 4
stdev 0.813
extra −0.47
5460.9400
nfib1 16
nfib2 6
stdev 1.023
extra 0.78
5577.3390
nfib1 17
nfib2 17
stdev 0.055
extra 0.10
5889.9500
nfib1 17
nfib2 12
stdev 0.364
extra −0.44
5895.9240
nfib1 17
nfib2 6
stdev 0.844
extra −0.87
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

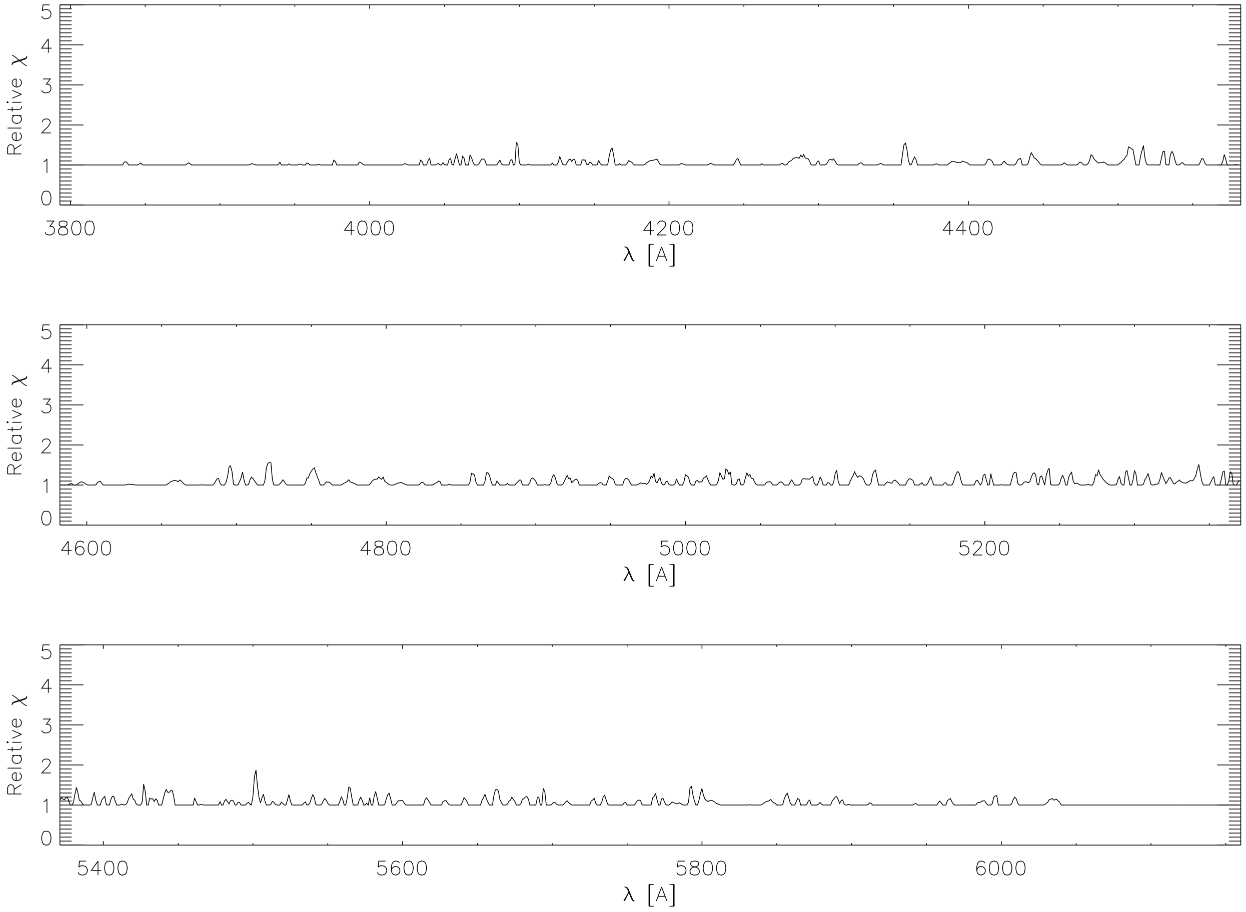

sky shift, pixels
0.4
0.3
0.2
0.1
0.0
−0.1
−0.2
3500
4000
4500
5000
5500
6000
6500


PLATE=0321 MJD=51612 Smooth superflat for sdR-b1-00002903.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es=   −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)


PLATE=0321 MJD=51612 sdR-b1-00002903.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
0.8
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
-6
-4
-2
0
2
4
6
8
50
100
150
200
250
300
Fiber number

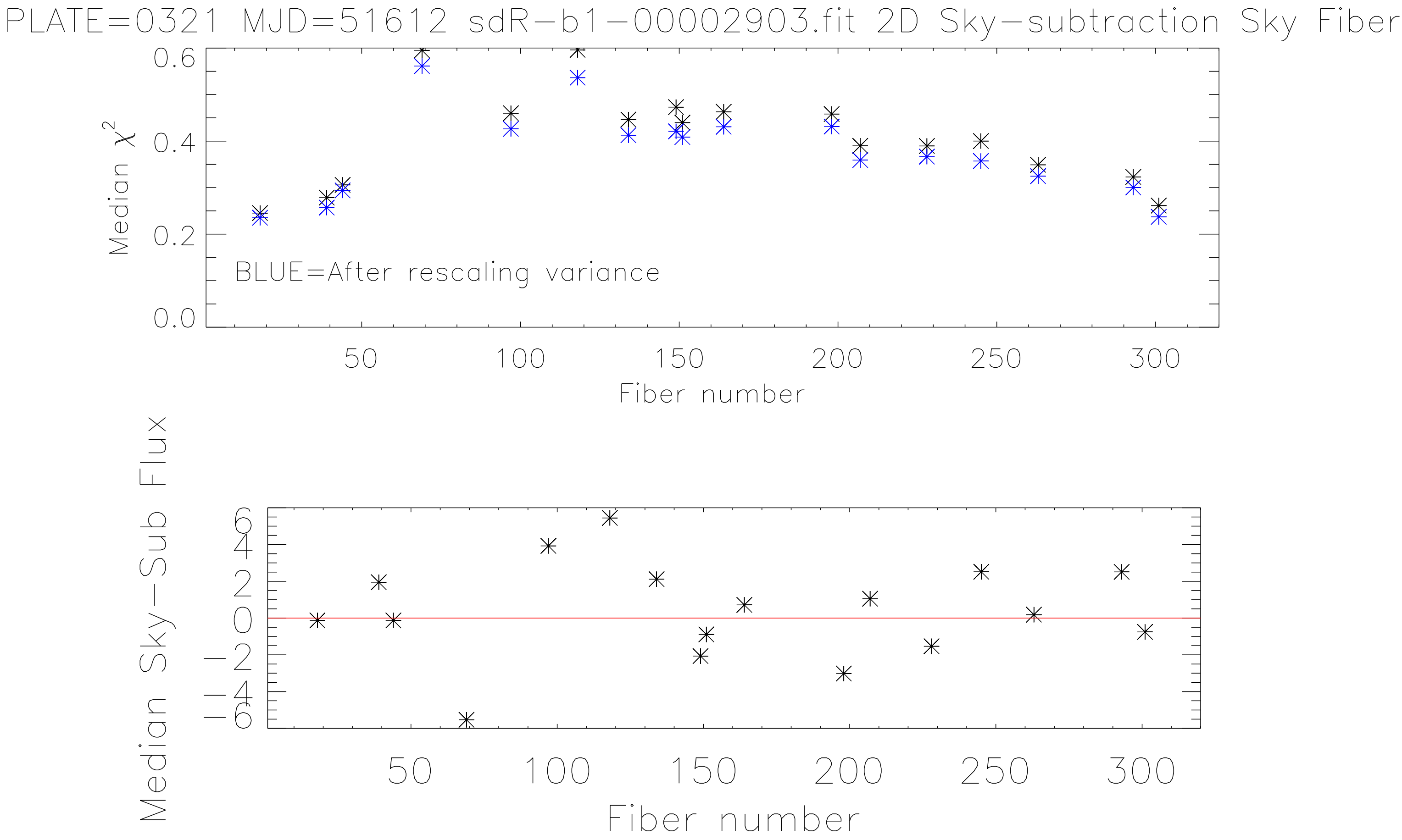

PLATE=0321 MJD=51612 sdR-b1-00002903.fit 1D Sky-subtraction Sky Fibers

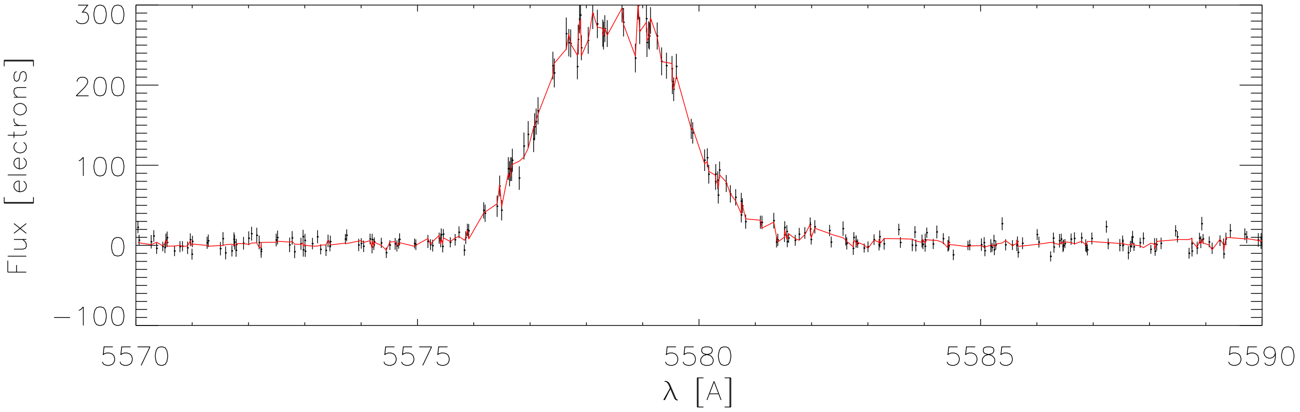

PLATE=0321 MJD=51612 sdR-b1-00002903.fit 1D Sky-subtraction Sky-subtracted Sky F



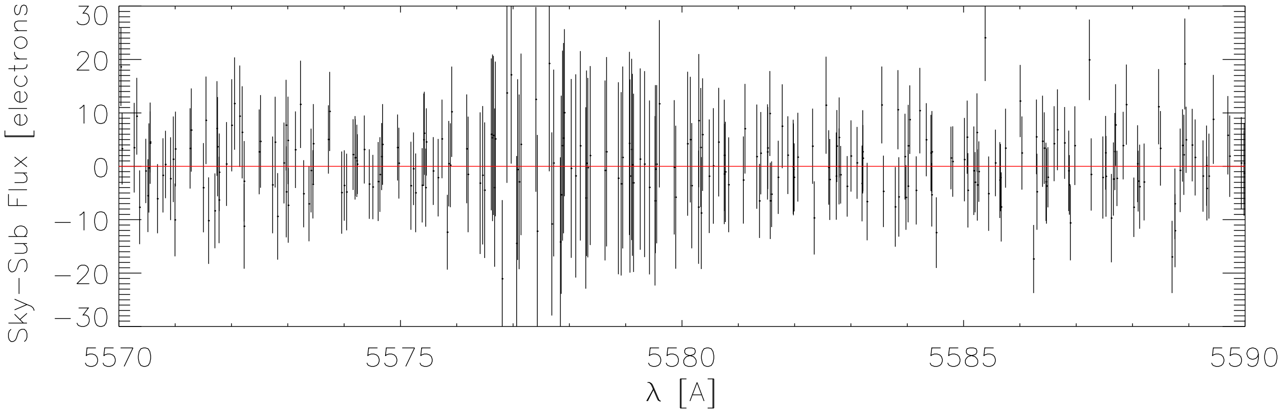
Number of sky fibers = 17

PLATE=0321 MJD=51612 sdR-b1-00002903.fit 1D Sky-subtraction Rescaled Errors


PLATE=0321 MJD=51612 sdR-b1-00002903.fit 2D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.2
0.4
0.6
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
6
4
2
0
-2
-4
-6
50
100
150
200
250
300
Fiber number



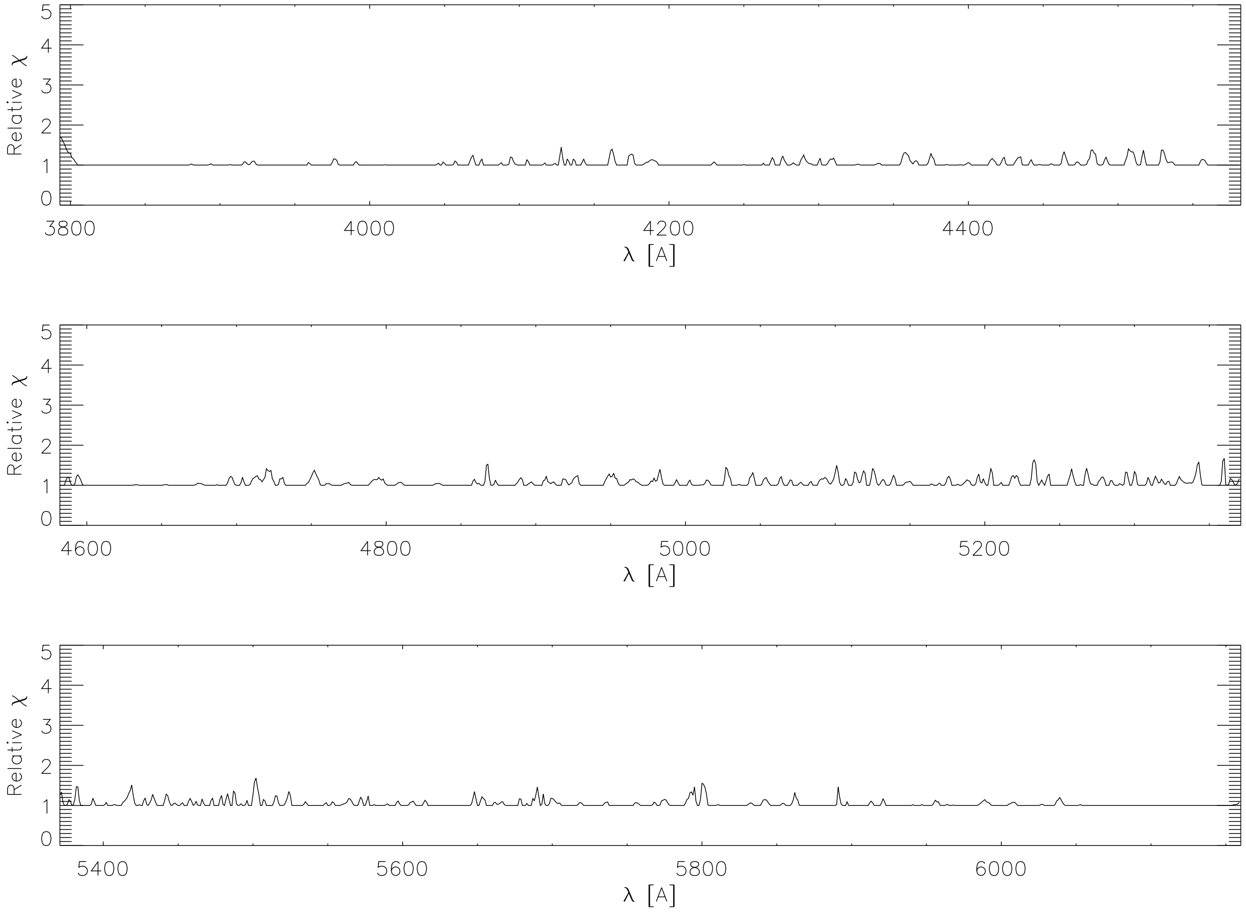
PLATE=0321 MJD=51612 sdR-b1-00002903.fit 2D Sky-subtraction Sky Fibers

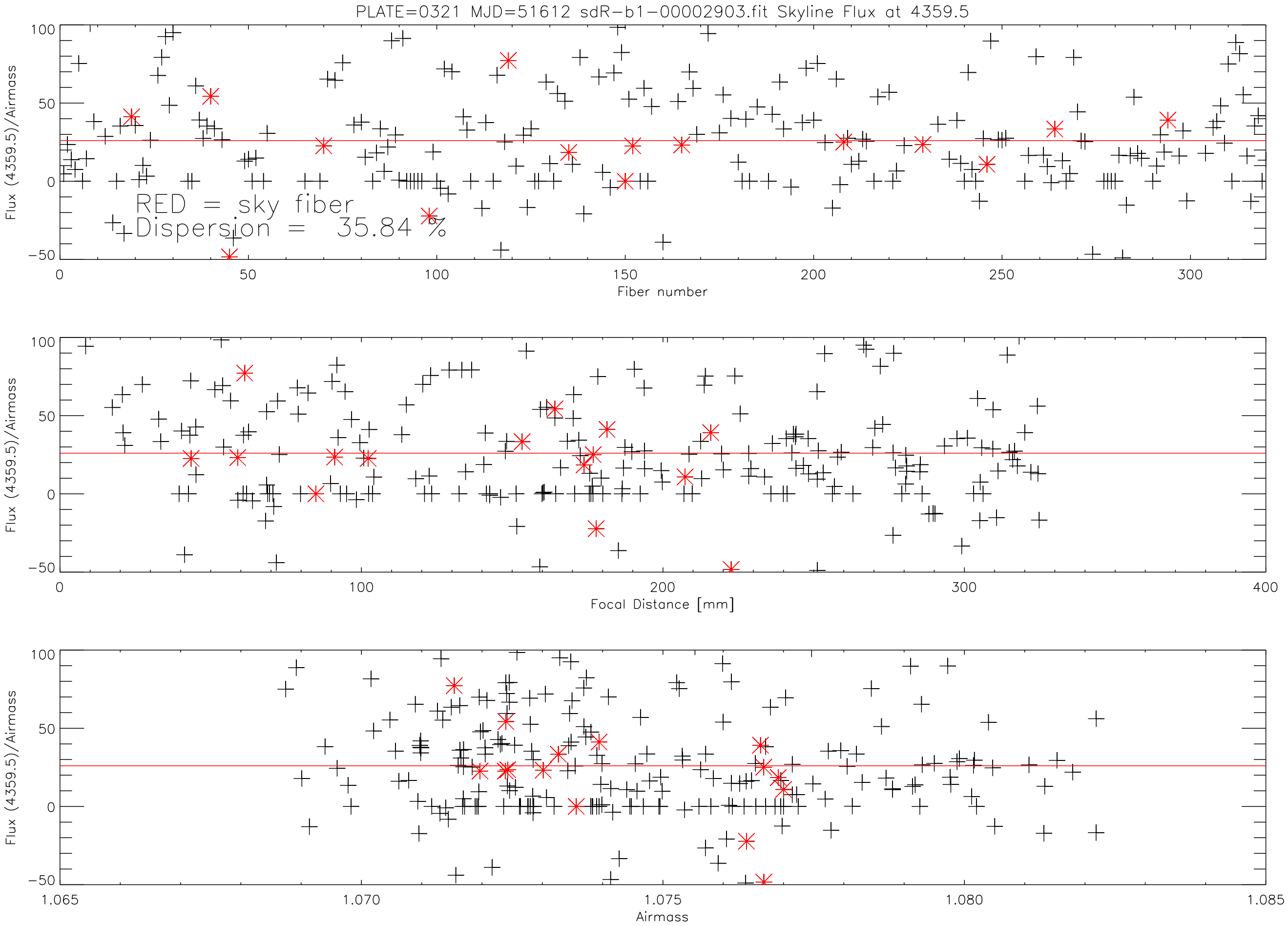


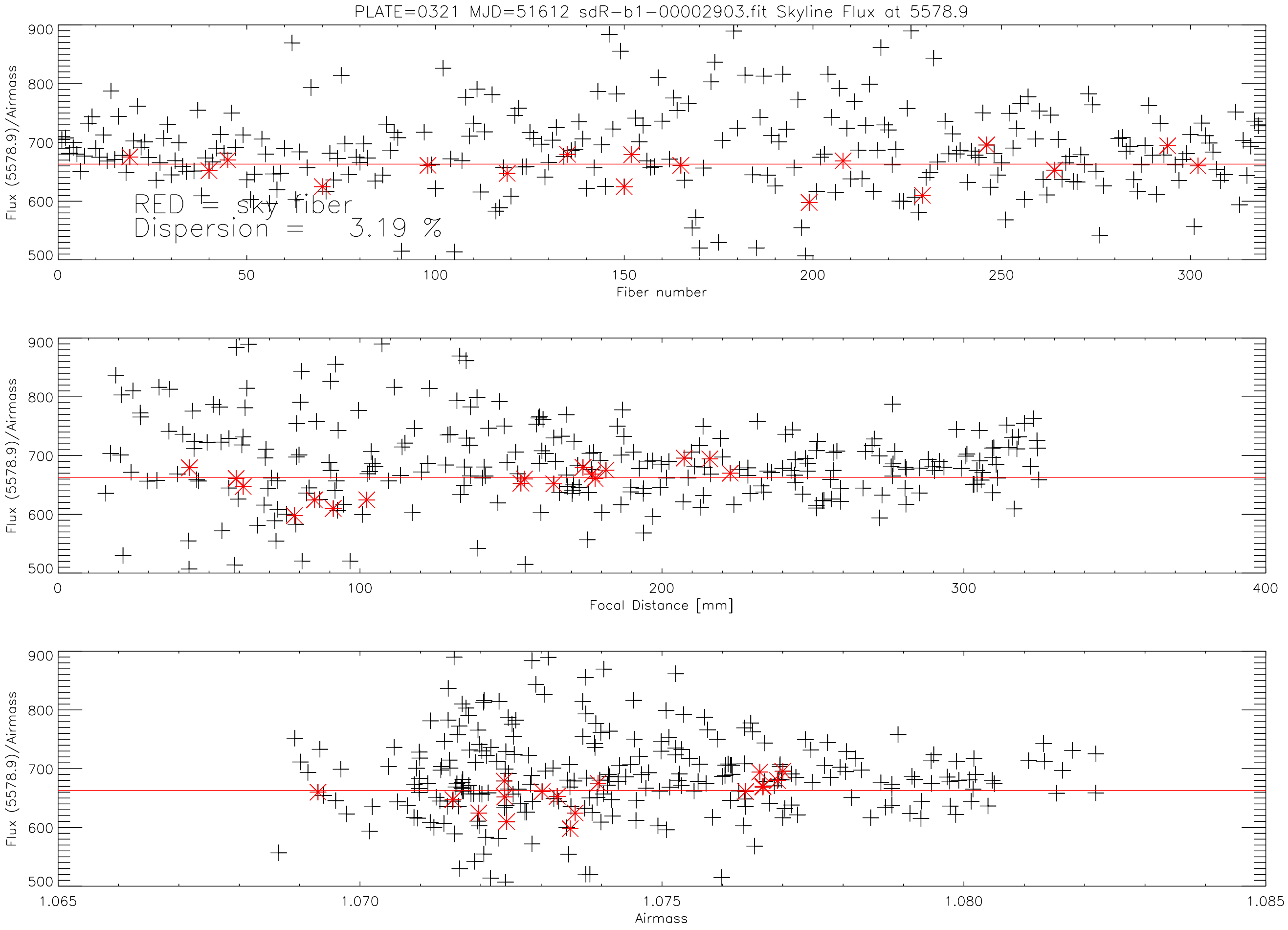
PLATE=0321 MJD=51612 sdR-b1-00002903.fit 2D Sky-subtraction Sky-subtracted Sky F

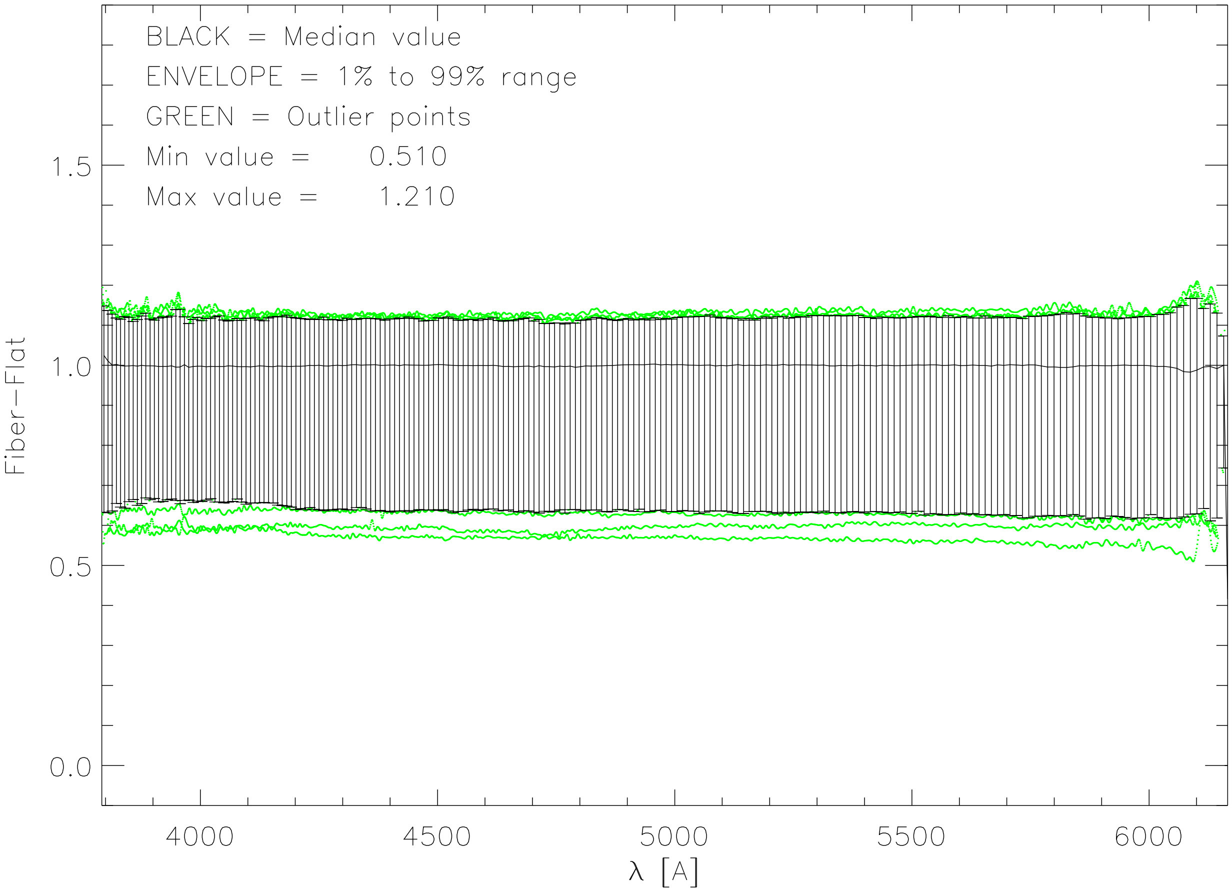
Number of sky fibers = 17

PLATE=0321 MJD=51612 sdR-b1-00002903.fit 2D Sky-subtraction Rescaled Errors

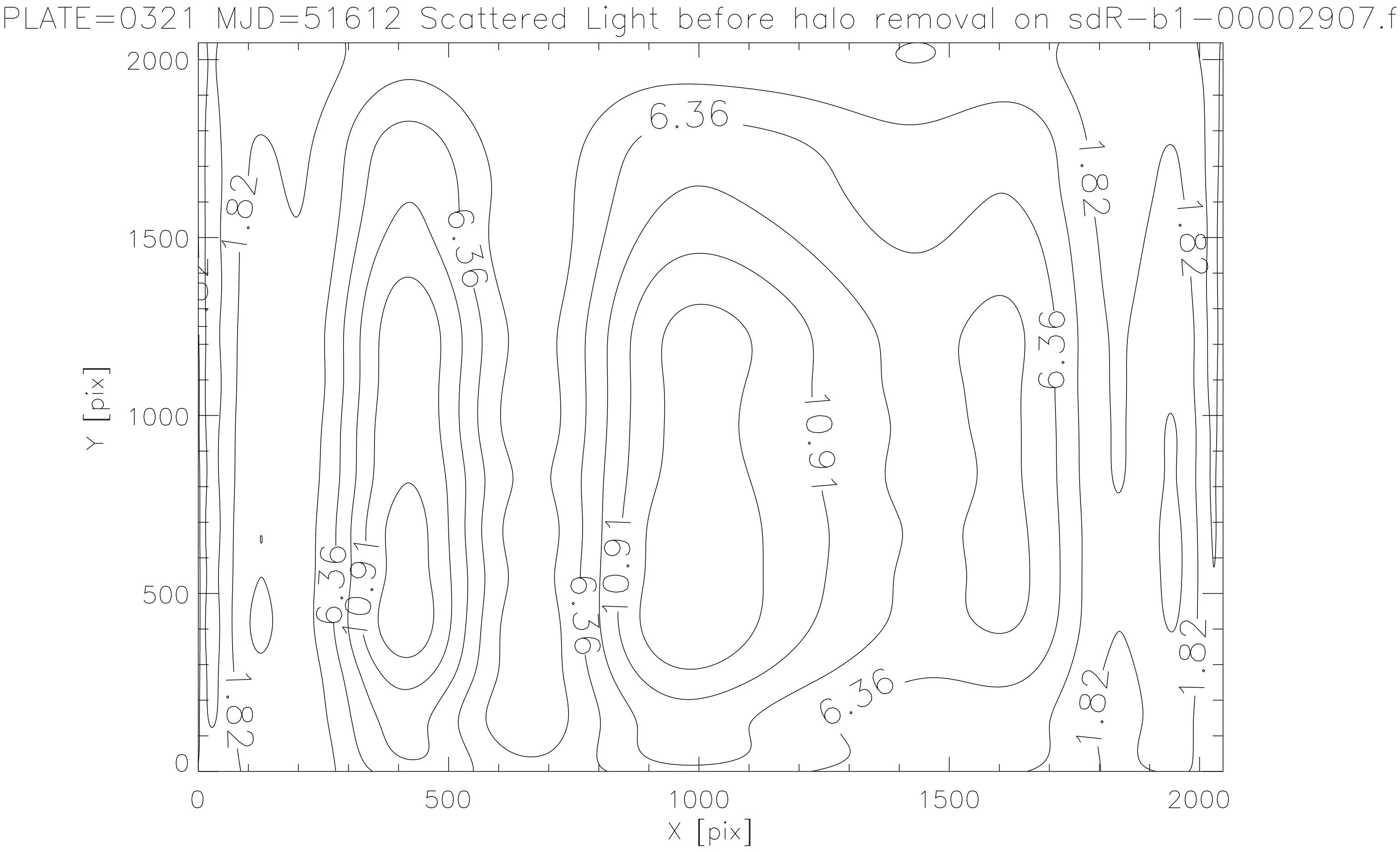



PLATE=0321 MJD=51612 sdR-b1-00002903.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
RED = sky fiber
Dispersion = 35.84 %
100
50
0
-50
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
100
50
0
-50
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
100
50
0
-50
1.065
1.070
1.075
1.080
1.085
Airmass


PLATE=0321 MJD=51612 sdR-b1-00002903.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
900
800
700
600
500
RED = sky fiber
Dispersion = 3.19 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
900
800
700
600
500
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
900
800
700
600
500
1.065
1.070
1.075
1.080
1.085
Airmass

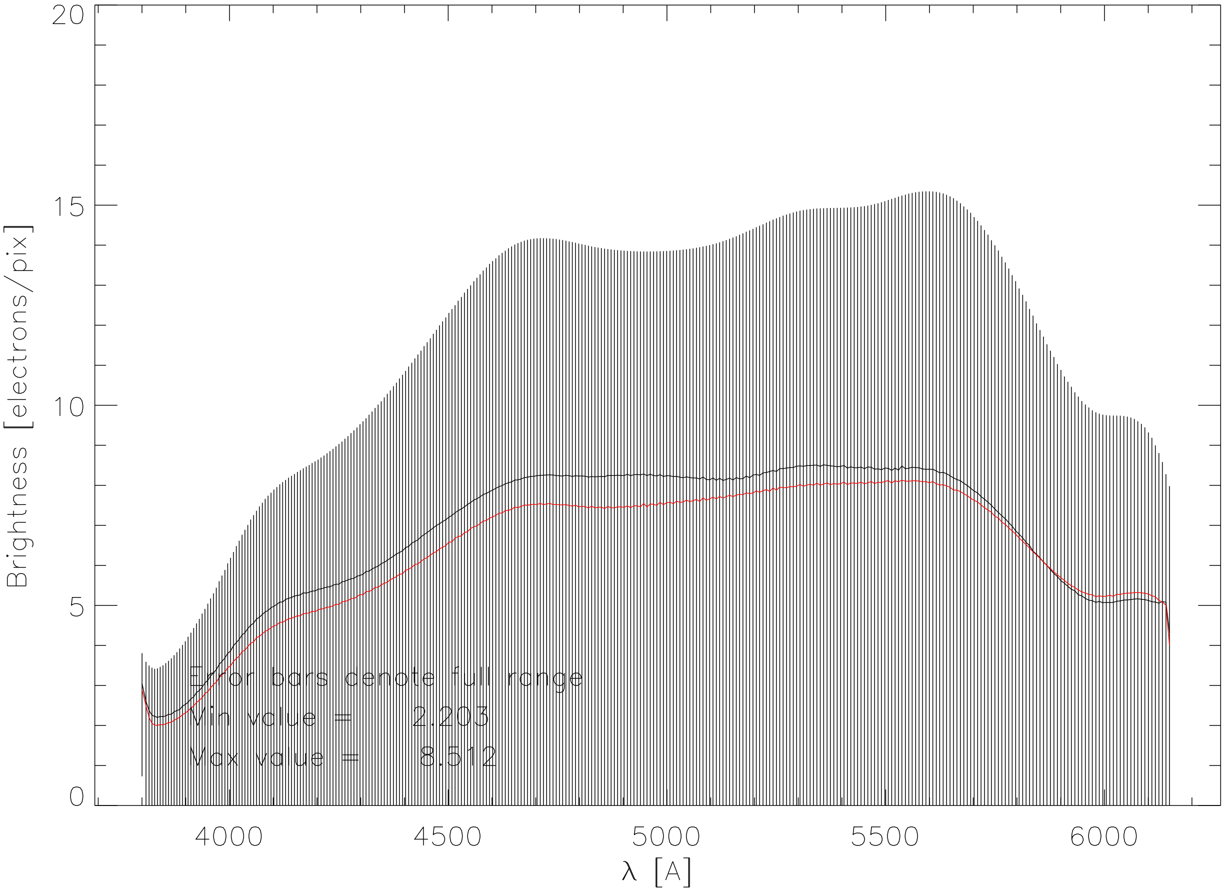

PLATE=0321 MJD=51612 Fiber-Flats for sdR-b1-00002910.fit

Mon Jul 21 14:08:56 2008

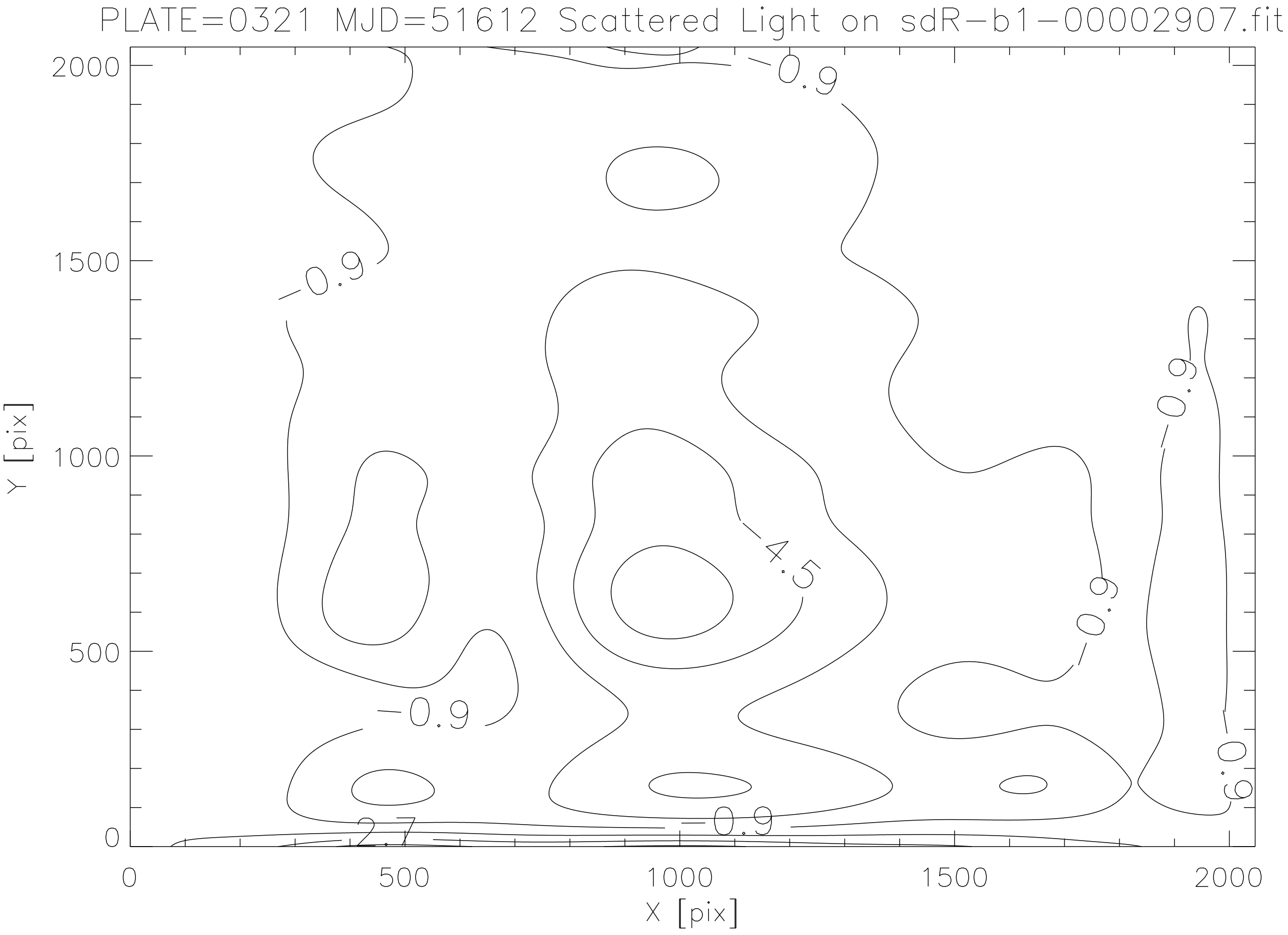


PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002907.f

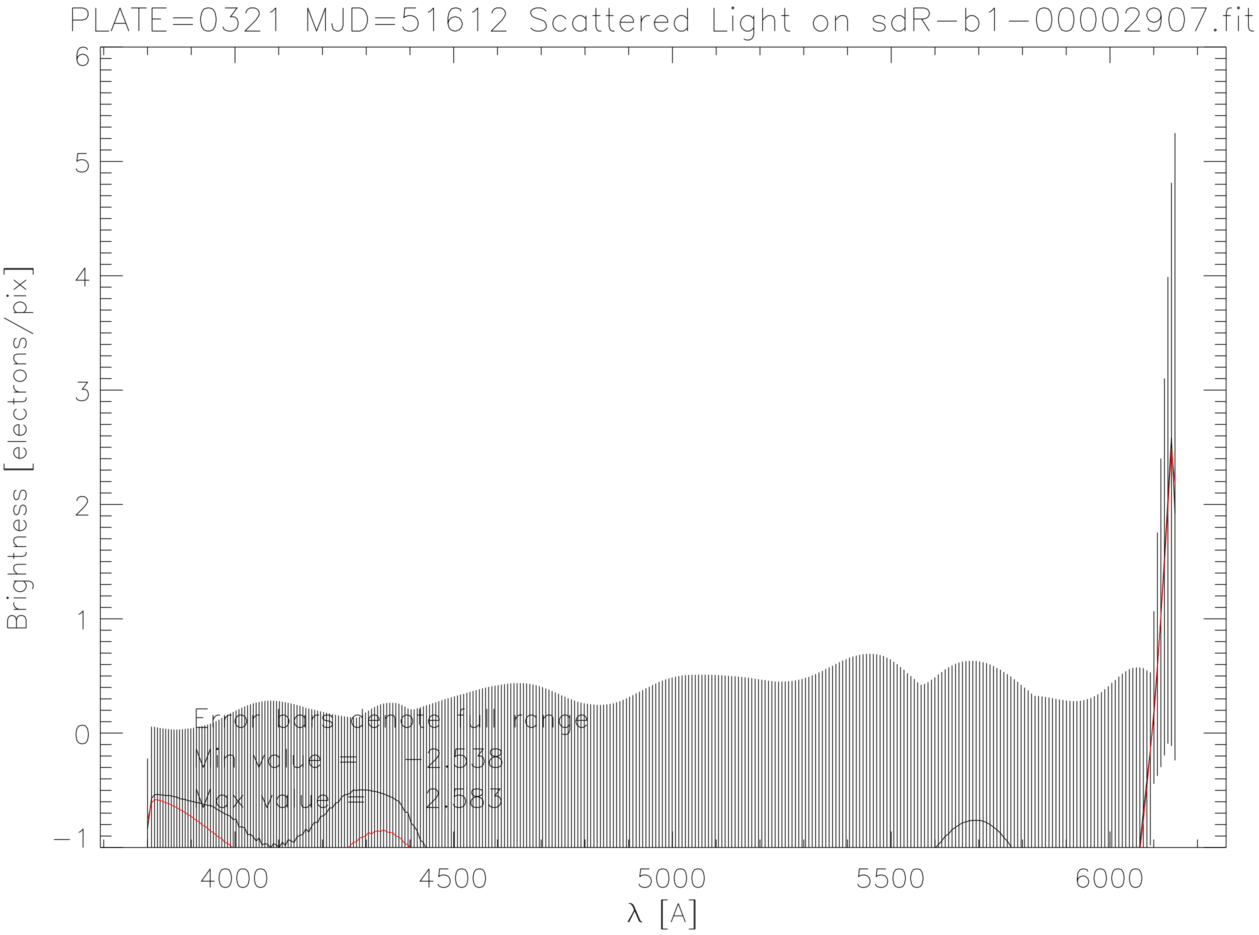
PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002907.f



Mon Jul 21 14:09:44 2008

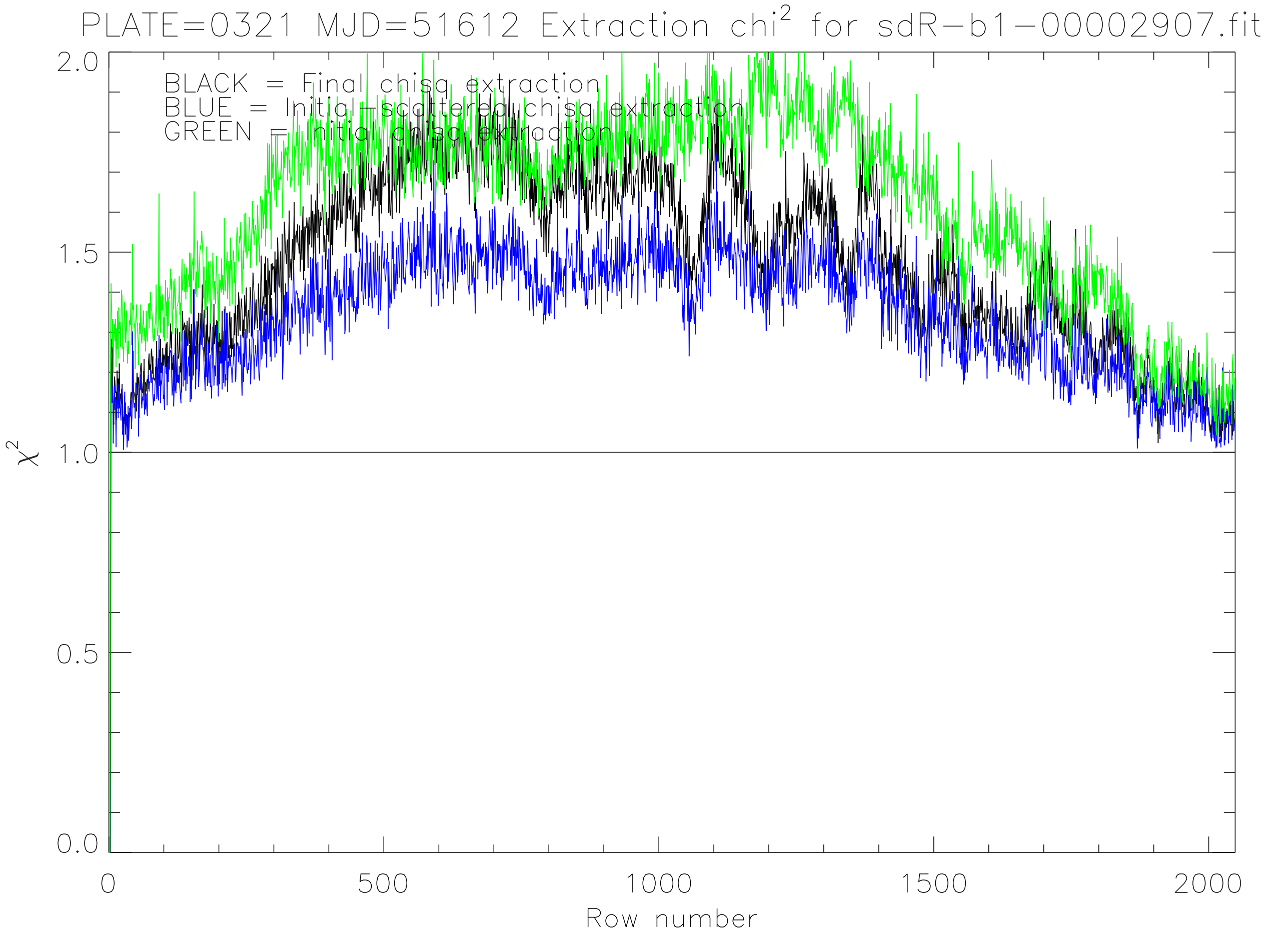


PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002907.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
-0.9
-4.5
2.7
6.0

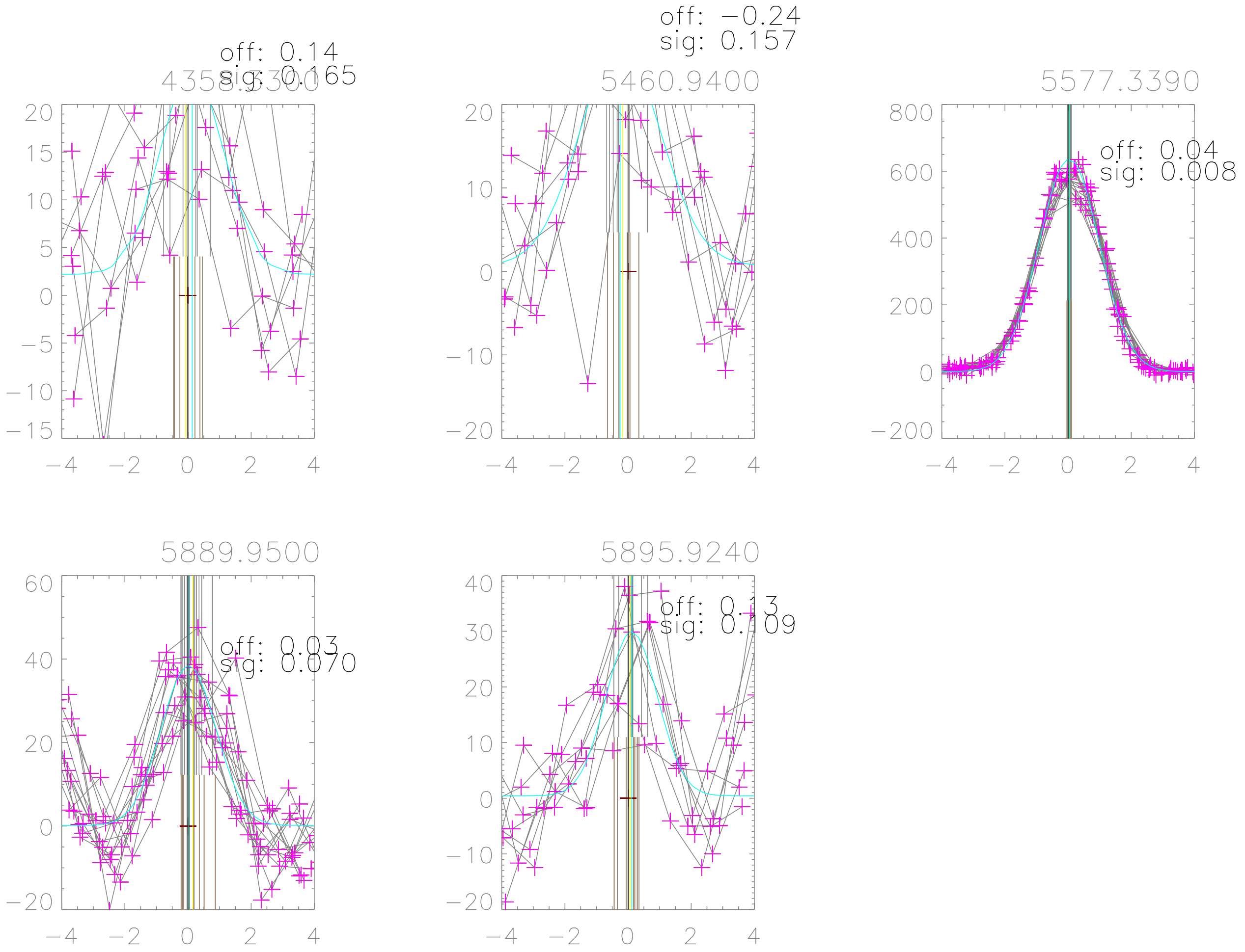


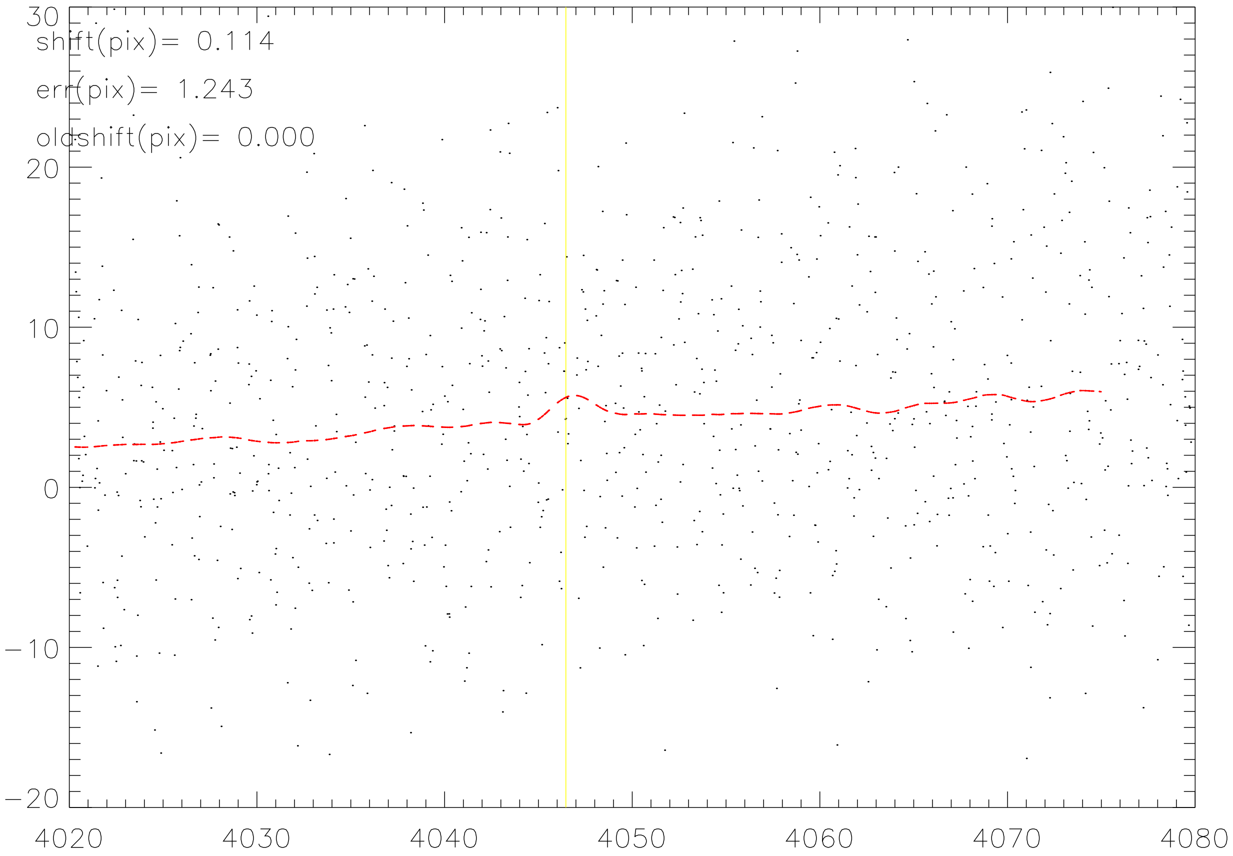
PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002907.fit

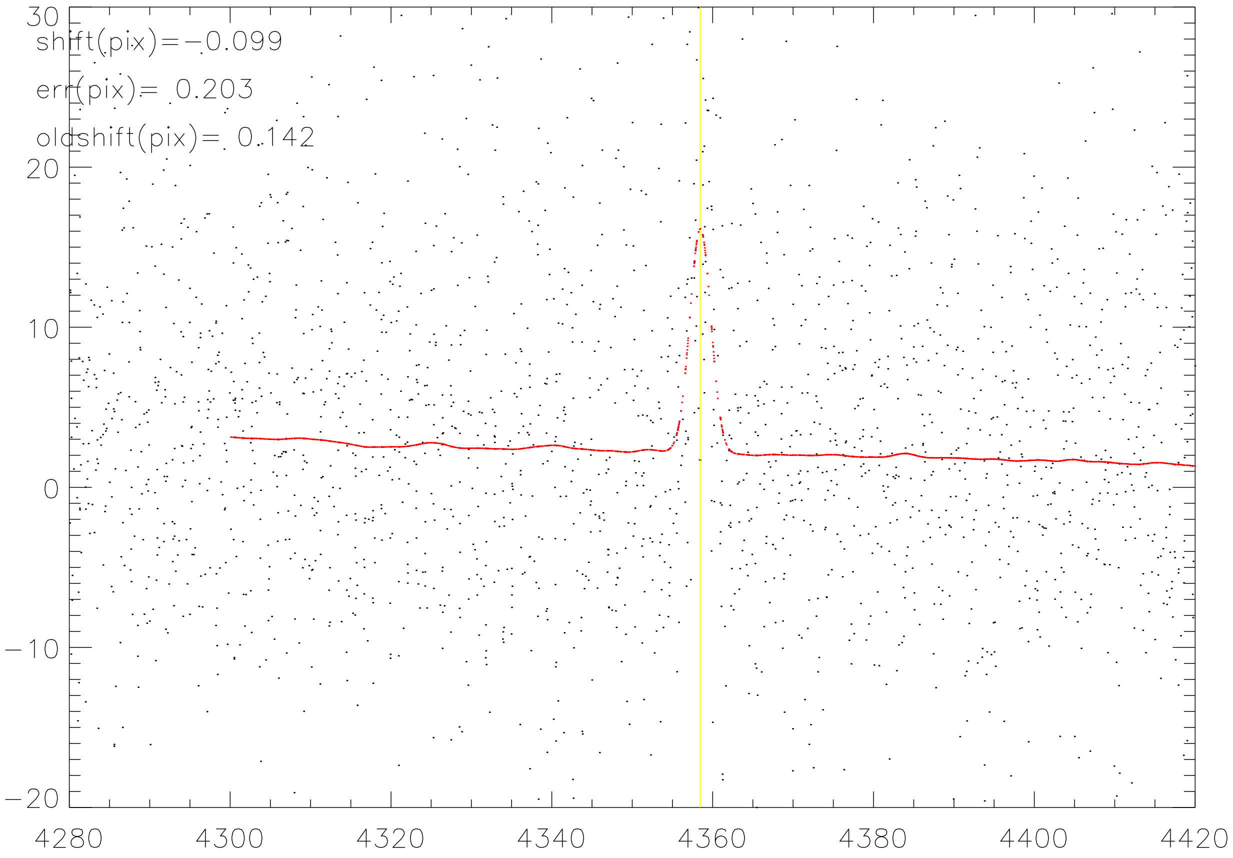
Mon Jul 21 14:12:45 2008

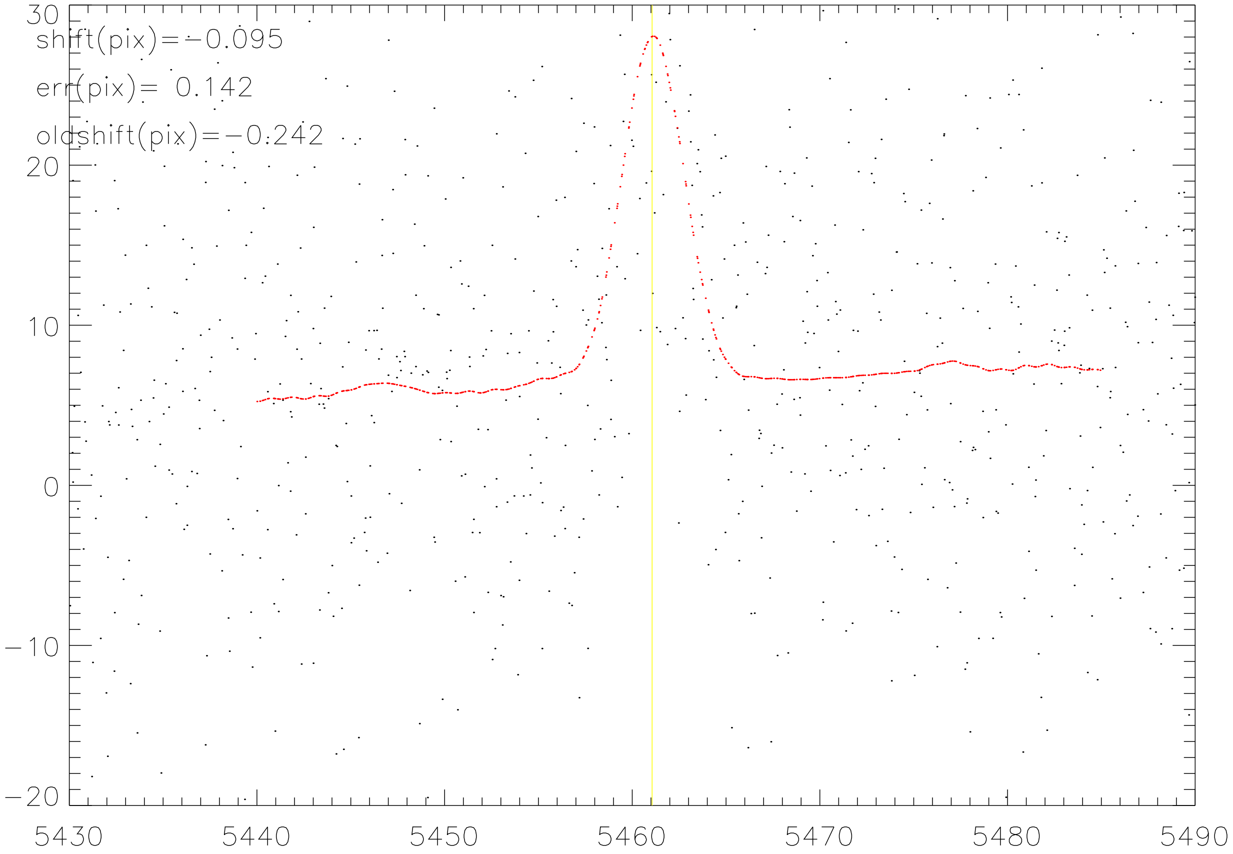


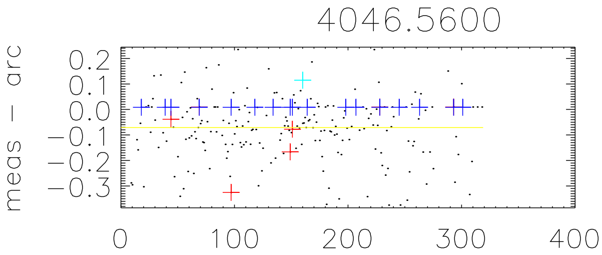
PLATE=0321 MJD=51612 Extraction chi^2 for sdR-b1-00002907.fit

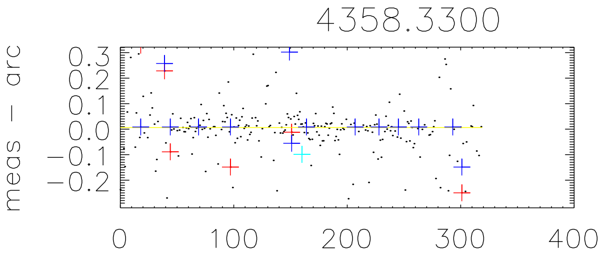

off: 0.14
sig: 0.165
4358.3300
off: −0.24
sig: 0.157
5460.9400
5577.3390
off: 0.04
sig: 0.008
5889.9500
off: 0.03
sig: 0.070
5895.9240
off: 0.13
sig: 0.109
−4
−2
0
2
4

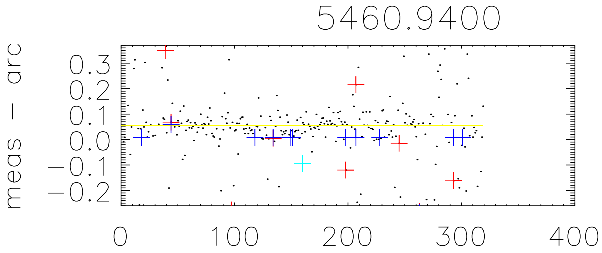

shift(pix)= 0.114
err(pix)= 1.243
oldshift(pix)= 0.000
30
20
10
0
−10
−20
4020
4030
4040
4050
4060
4070
4080

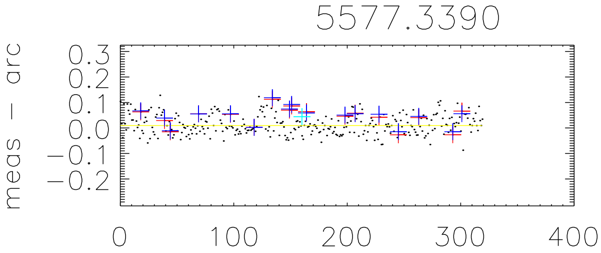

shift(pix)=−0.099
err(pix)= 0.203
oldshift(pix)= 0.142
30
20
10
0
−10
−20
4280
4300
4320
4340
4360
4380
4400
4420

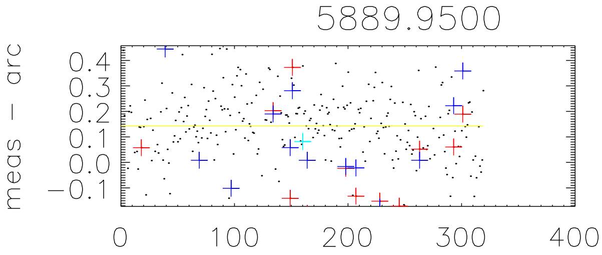

shift(pix)=-0.095
err(pix)= 0.142
oldshift(pix)=-0.242
30
20
10
0
-10
-20
5430
5440
5450
5460
5470
5480
5490

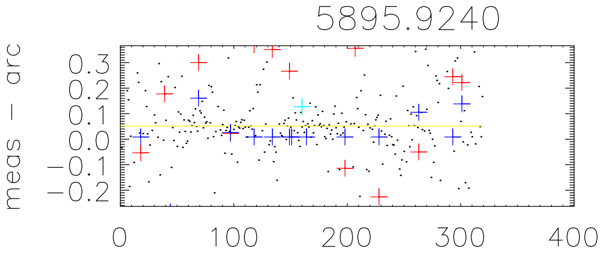

4046.5600
meas – arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

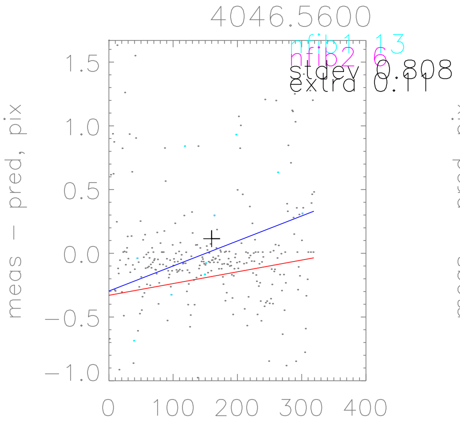

4358.3300
meas – arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

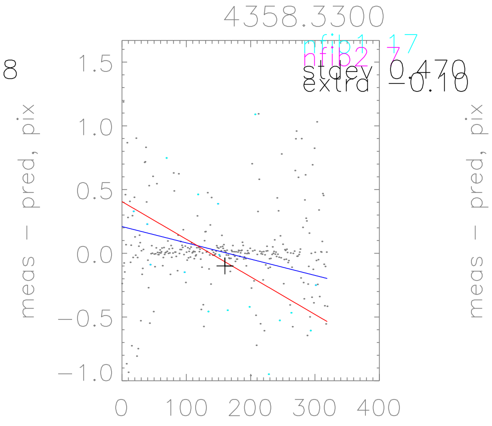

5460.9400
meas – arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

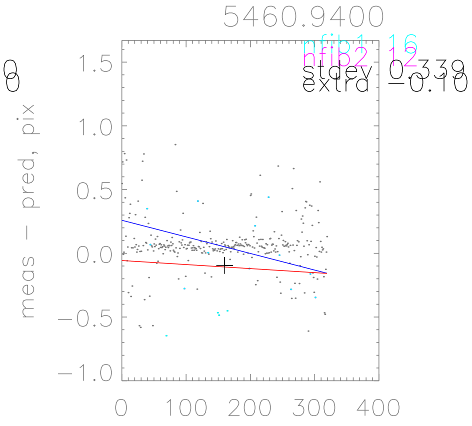

5577.3390
meas – arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

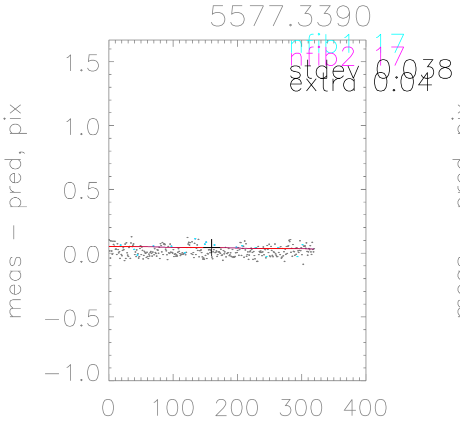

5889.9500
meas – arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

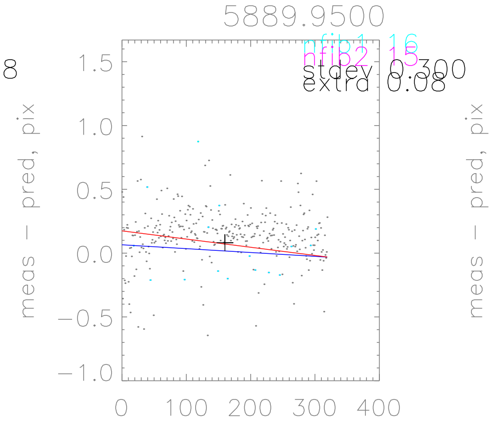

5895.9240
meas – arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

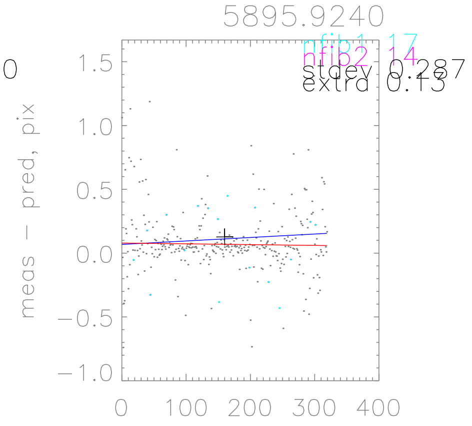

4046.5600
nfib1 13
nfib2 6
stdev 0.808
extrd 0.11
meas − pred, pix
1.5
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

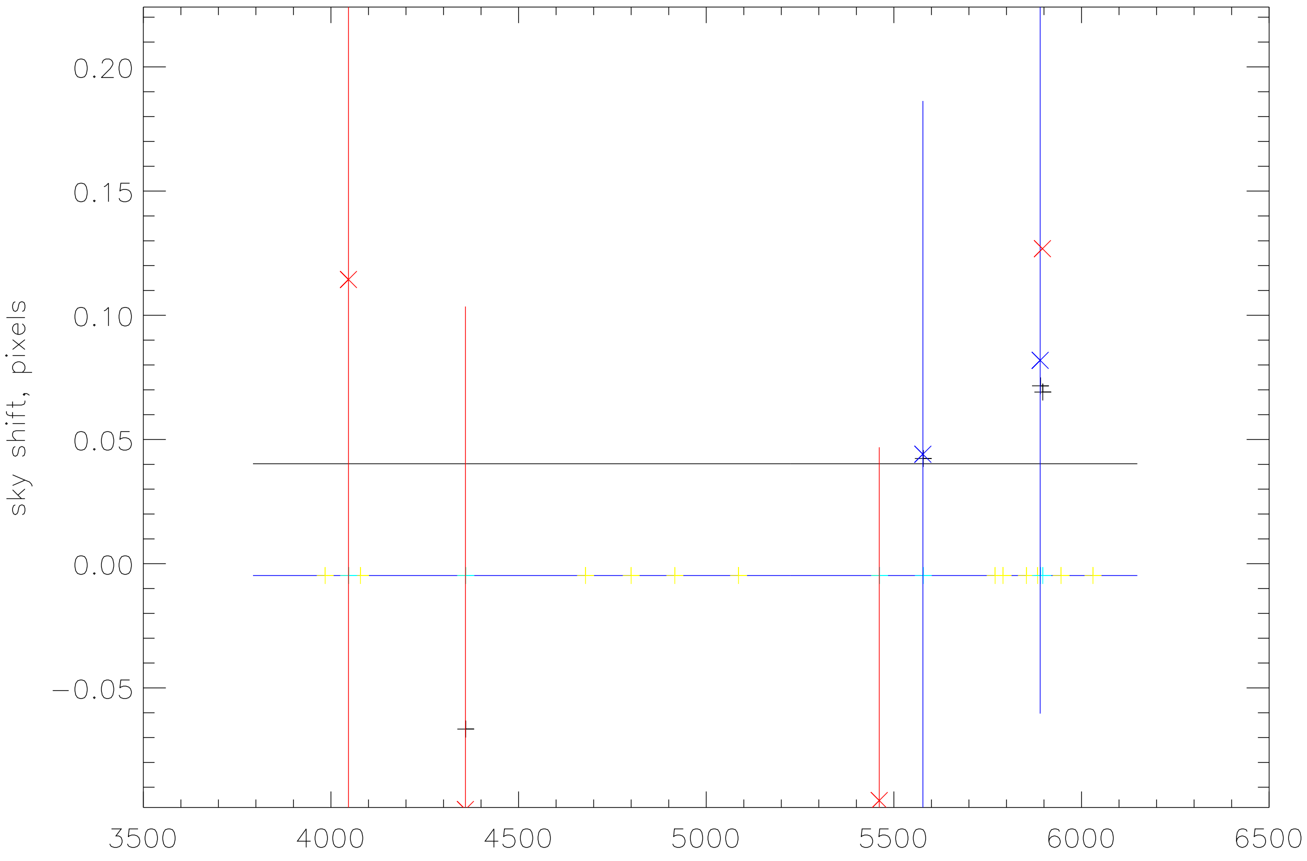

4358.3300
nfib1 17
nfib2 7
stdev 0.470
extrd −0.10
meas − pred, pix
1.5
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

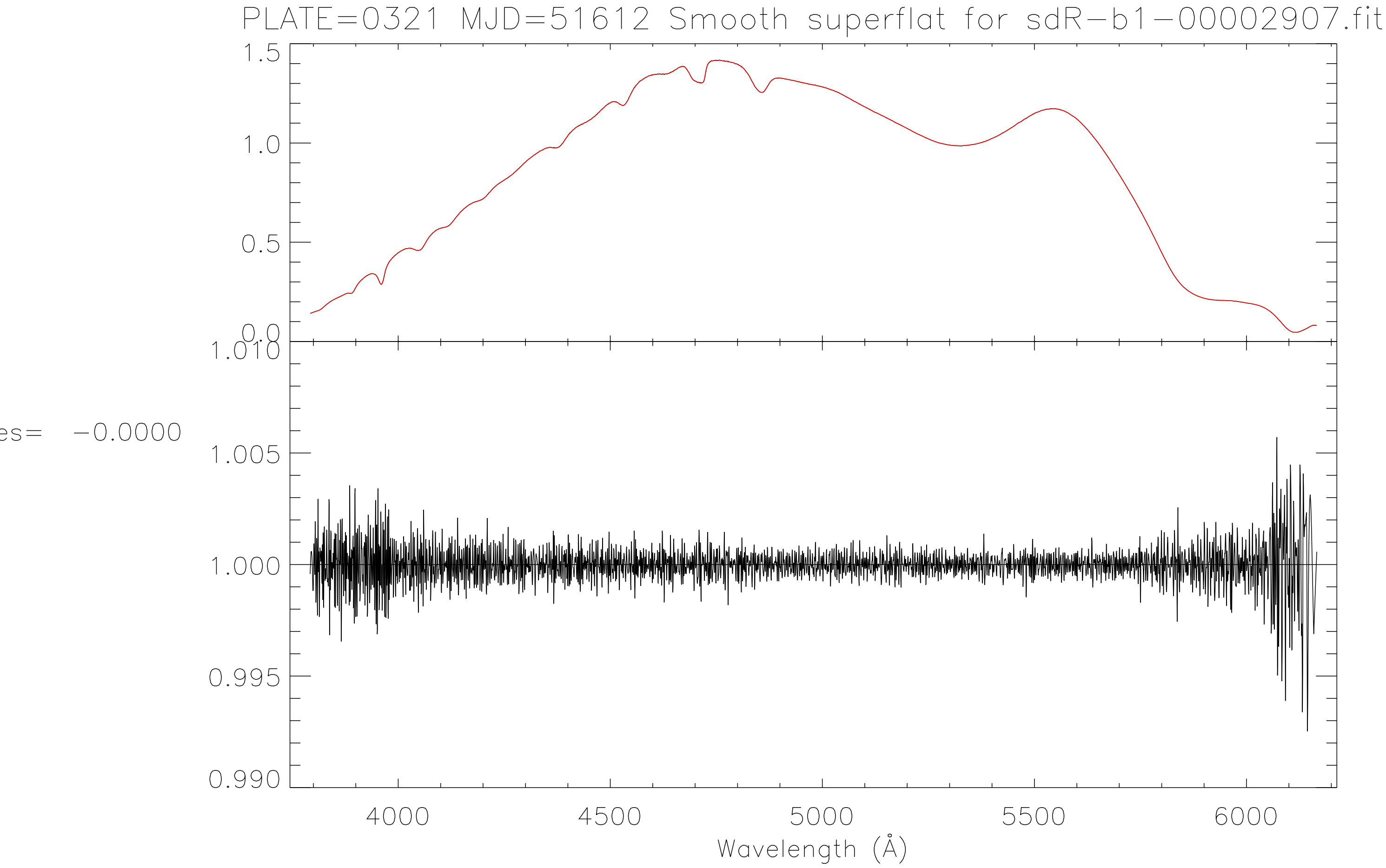

5460.9400
nfib1 16
nfib2 12
stdev 0.339
extrd −0.10
meas − pred, pix
1.5
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


5577.3390
nfib1 17
nfib2 17
stdev 0.038
extrd 0.04
meas − pred, pix
1.5
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

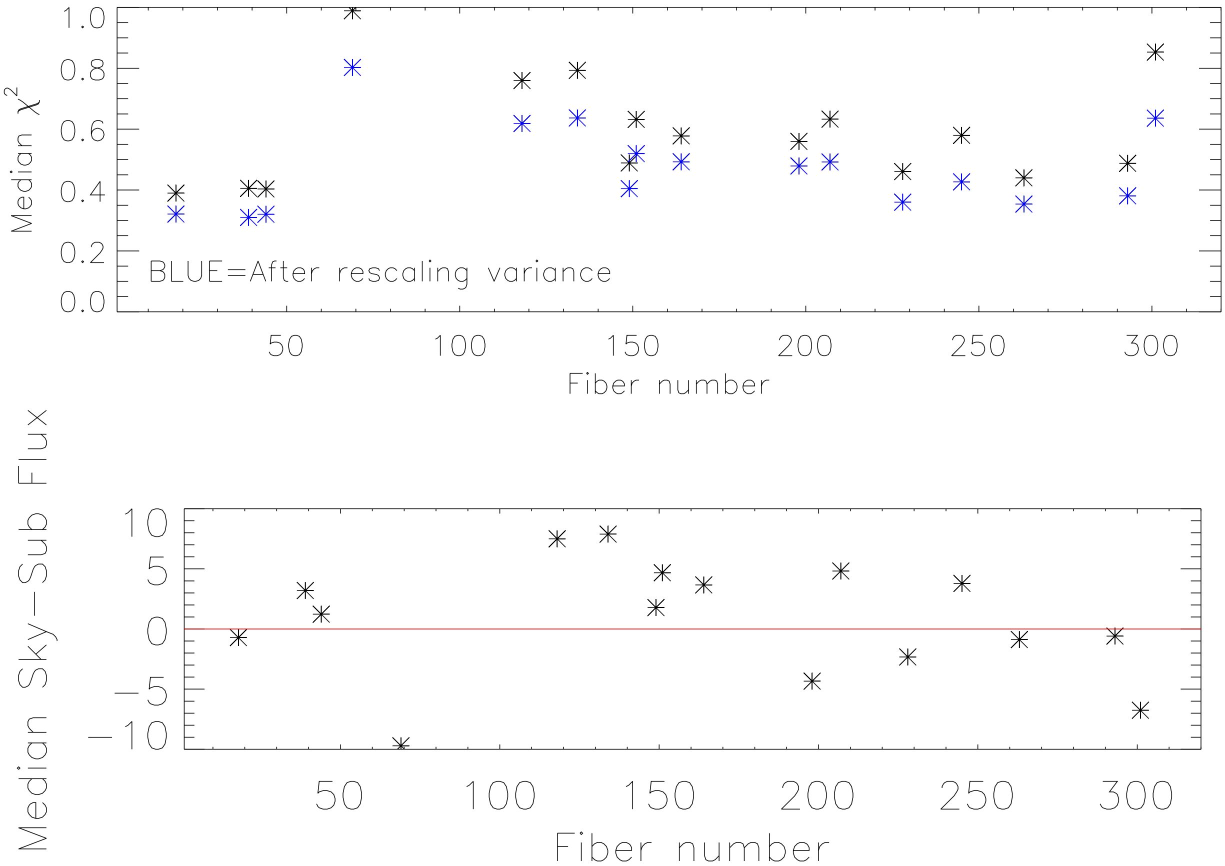

5889.9500
nfib1 16
nfib2 15
stdev 0.300
extrd 0.08
meas − pred, pix
1.5
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

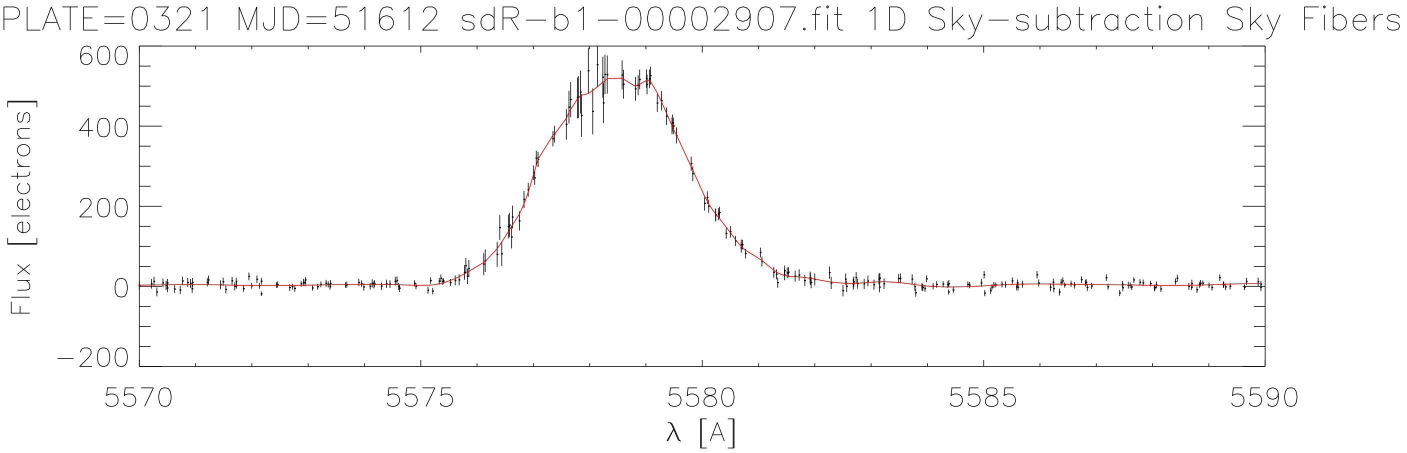

5895.9240
nfib1 17
nfib2 14
stdev 0.287
extrd 0.13
meas − pred, pix
1.5
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

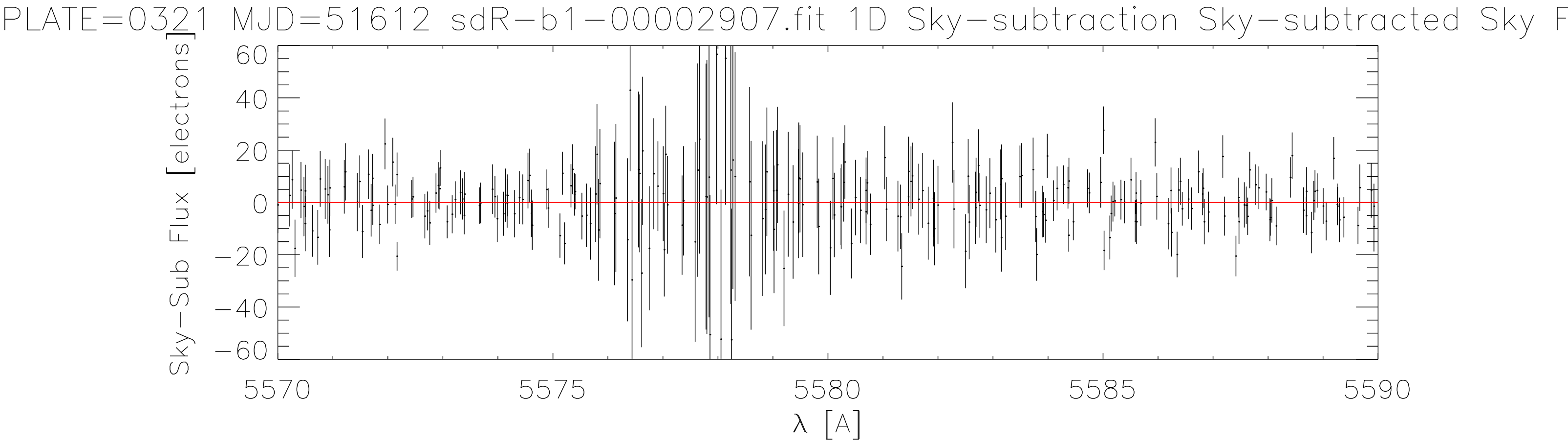

sky shift, pixels
0.20
0.15
0.10
0.05
0.00
−0.05
3500
4000
4500
5000
5500
6000
6500


PLATE=0321 MJD=51612 Smooth superflat for sdR-b1-00002907.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

PLATE=0321 MJD=51612 sdR-b1-00002907.fit 1D Sky-subtraction Sky Fiber

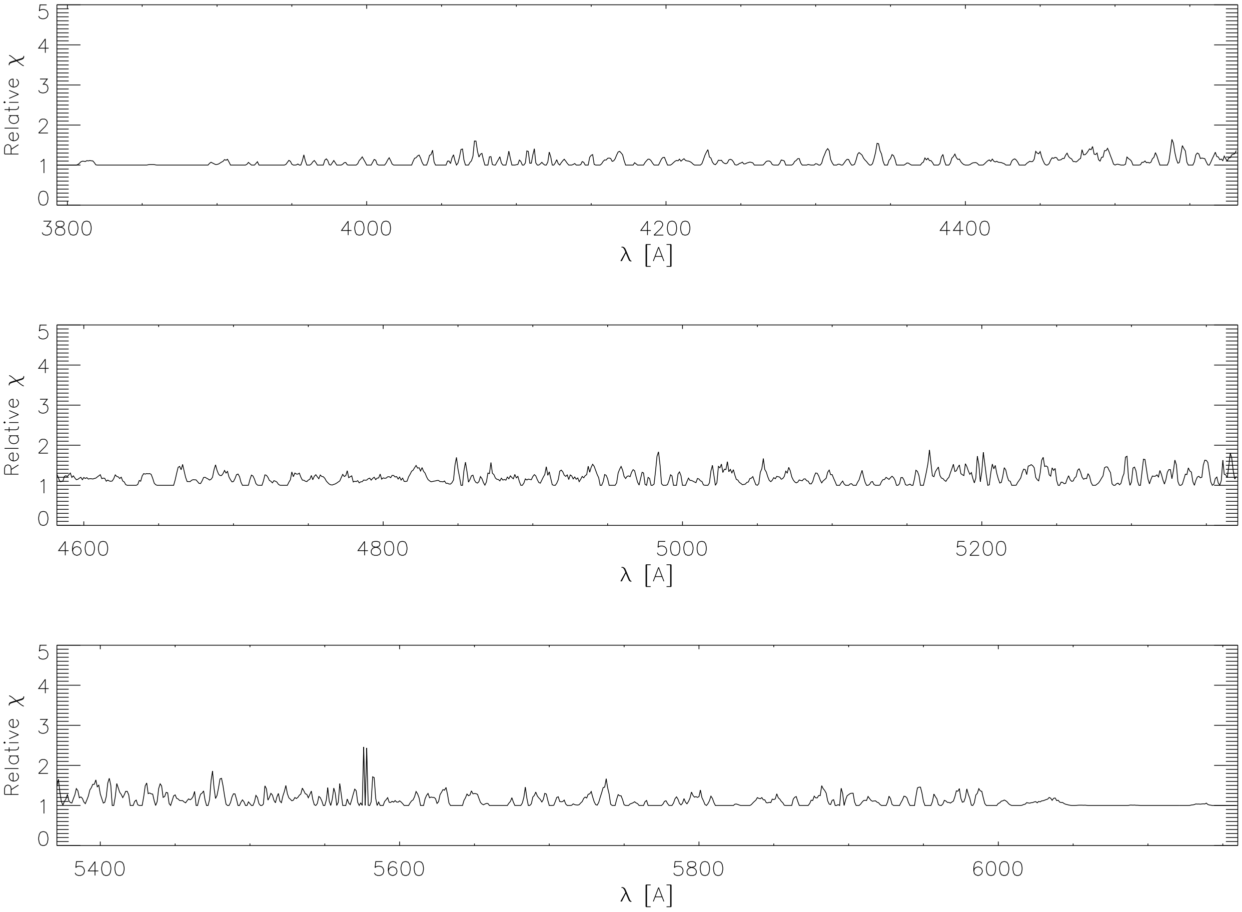


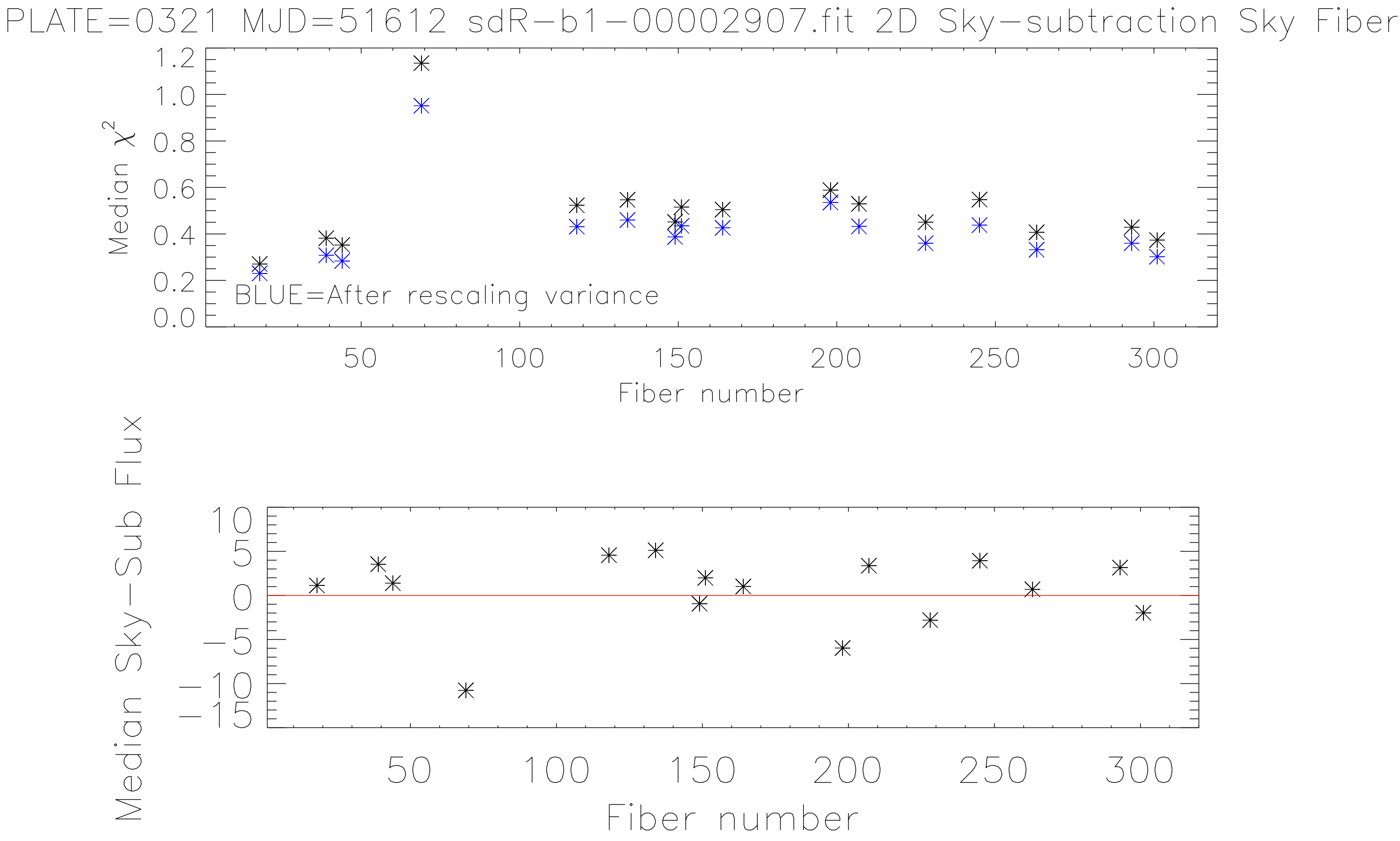

PLATE=0321 MJD=51612 sdR-b1-00002907.fit 1D Sky-subtraction Sky Fibers

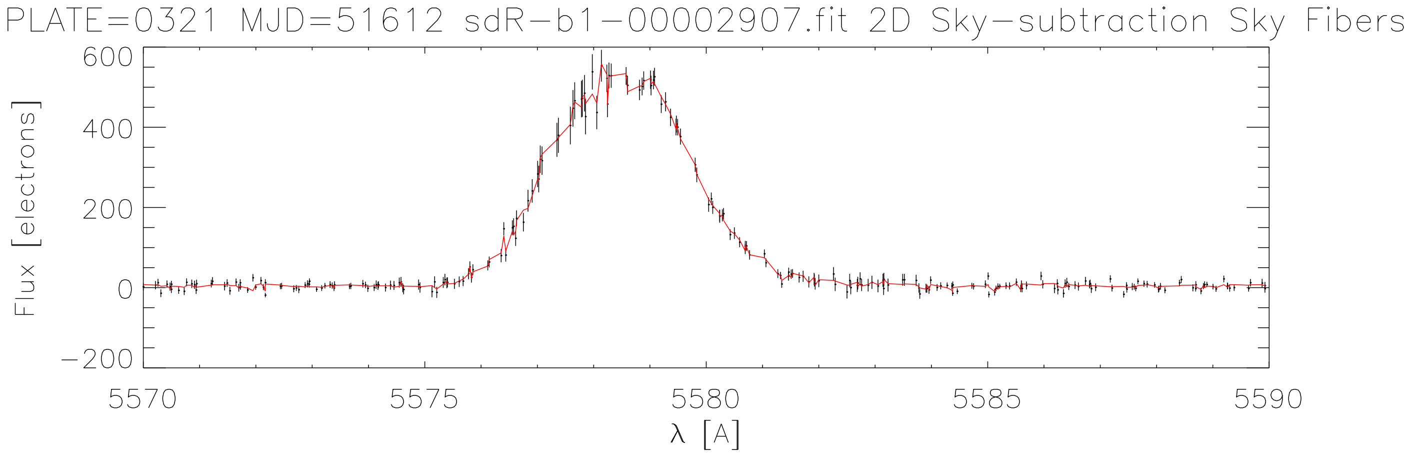

PLATE=0321 MJD=51612 sdR-b1-00002907.fit 1D Sky-subtraction Sky-subtracted Sky F

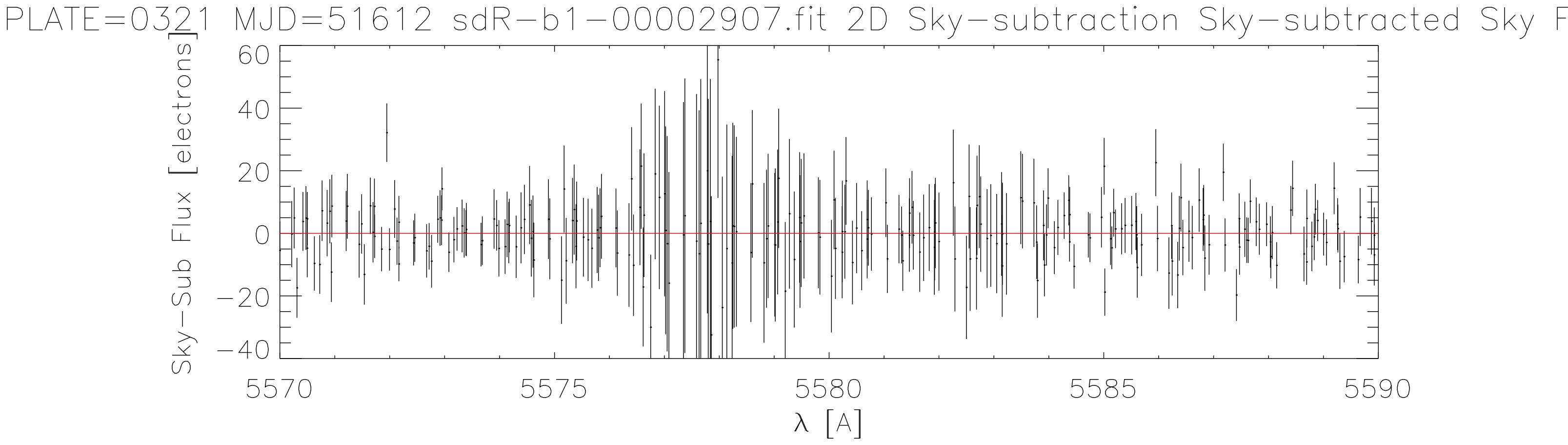
Number of sky fibers = 16

PLATE=0321 MJD=51612 sdR-b1-00002907.fit 1D Sky-subtraction Rescaled Errors



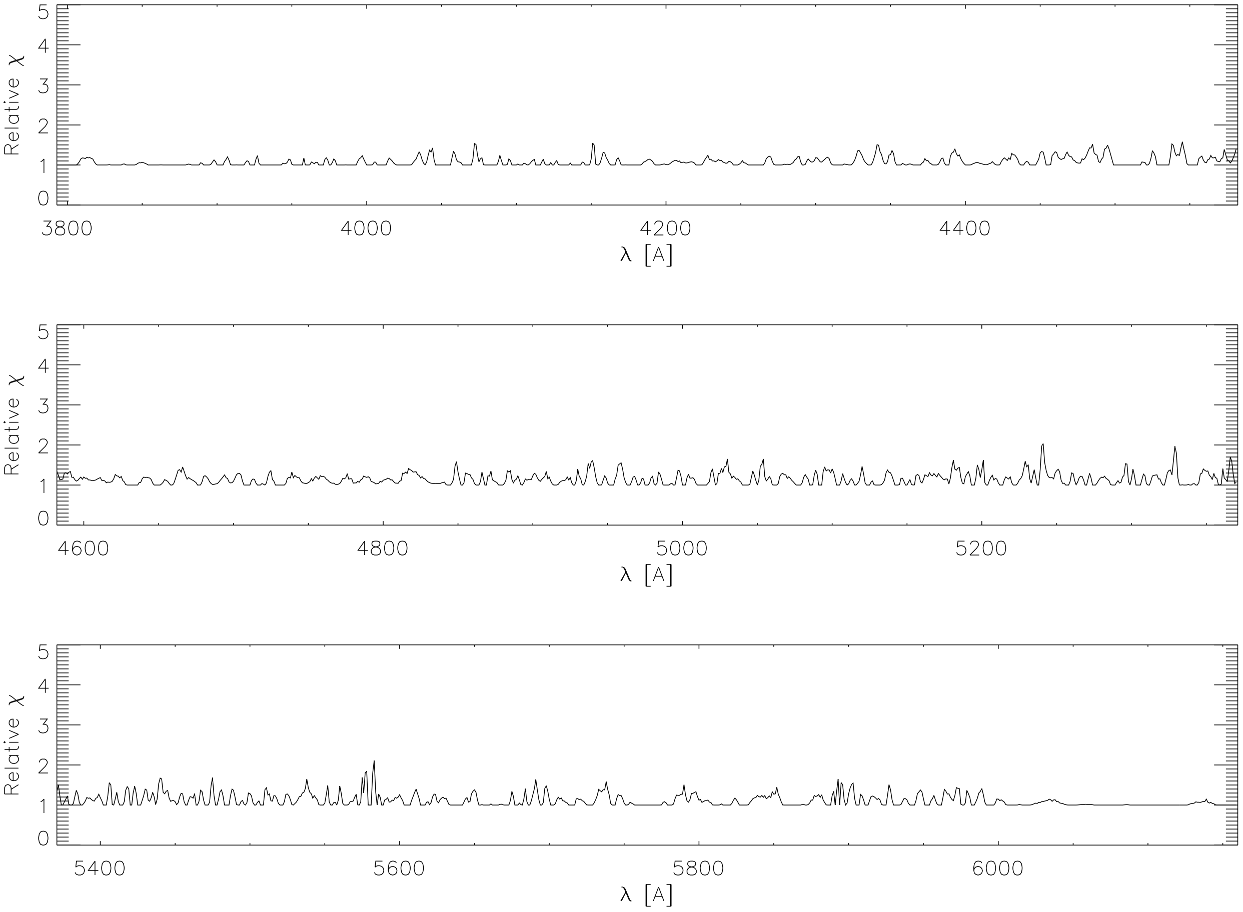

PLATE=0321 MJD=51612 sdR-b1-00002907.fit 2D Sky-subtraction Sky Fiber
Median χ^2
1.2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

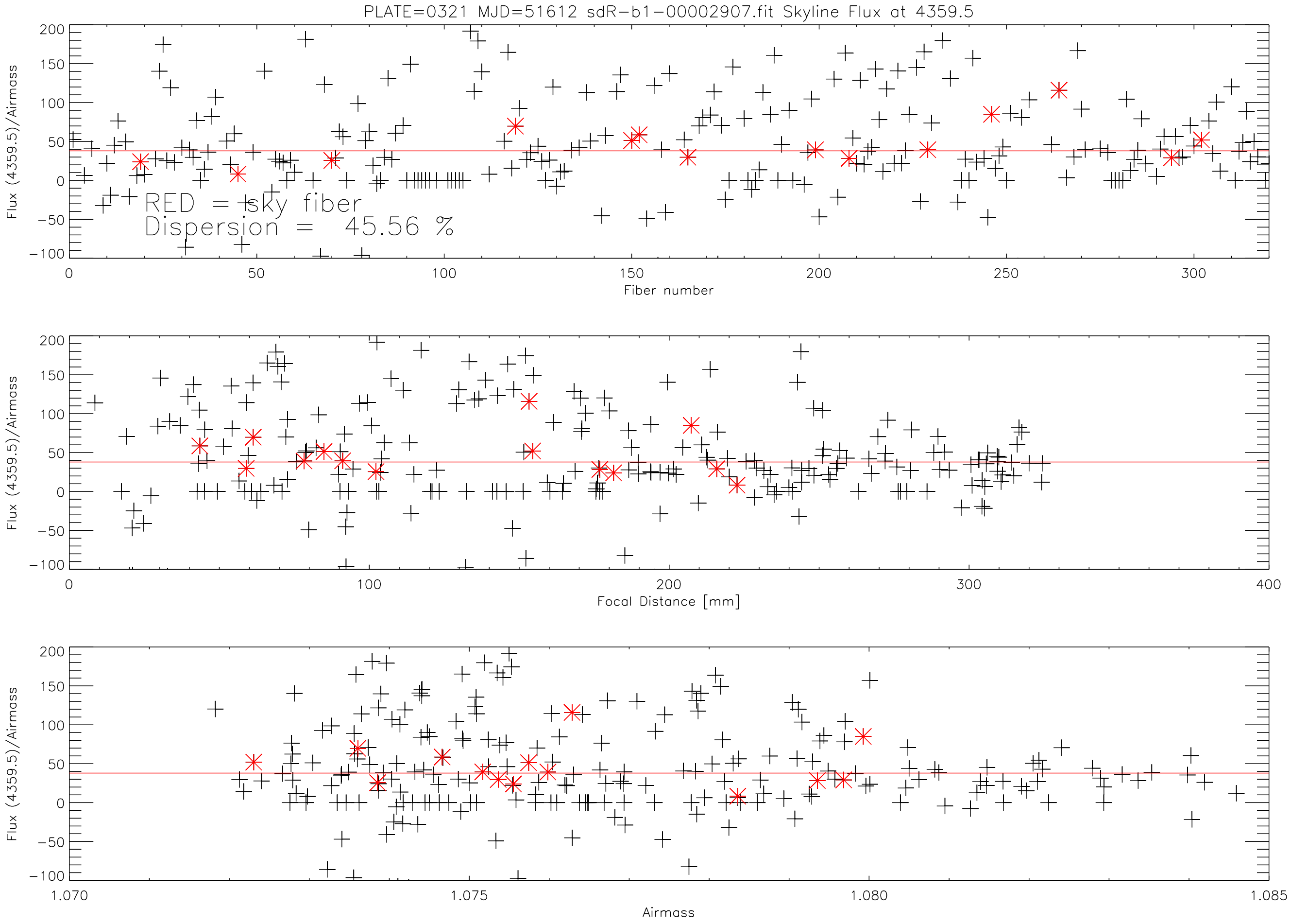

PLATE=0321 MJD=51612 sdR-b1-00002907.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
600
400
200
0
−200
5570
5575
5580
5585
5590
λ [A]

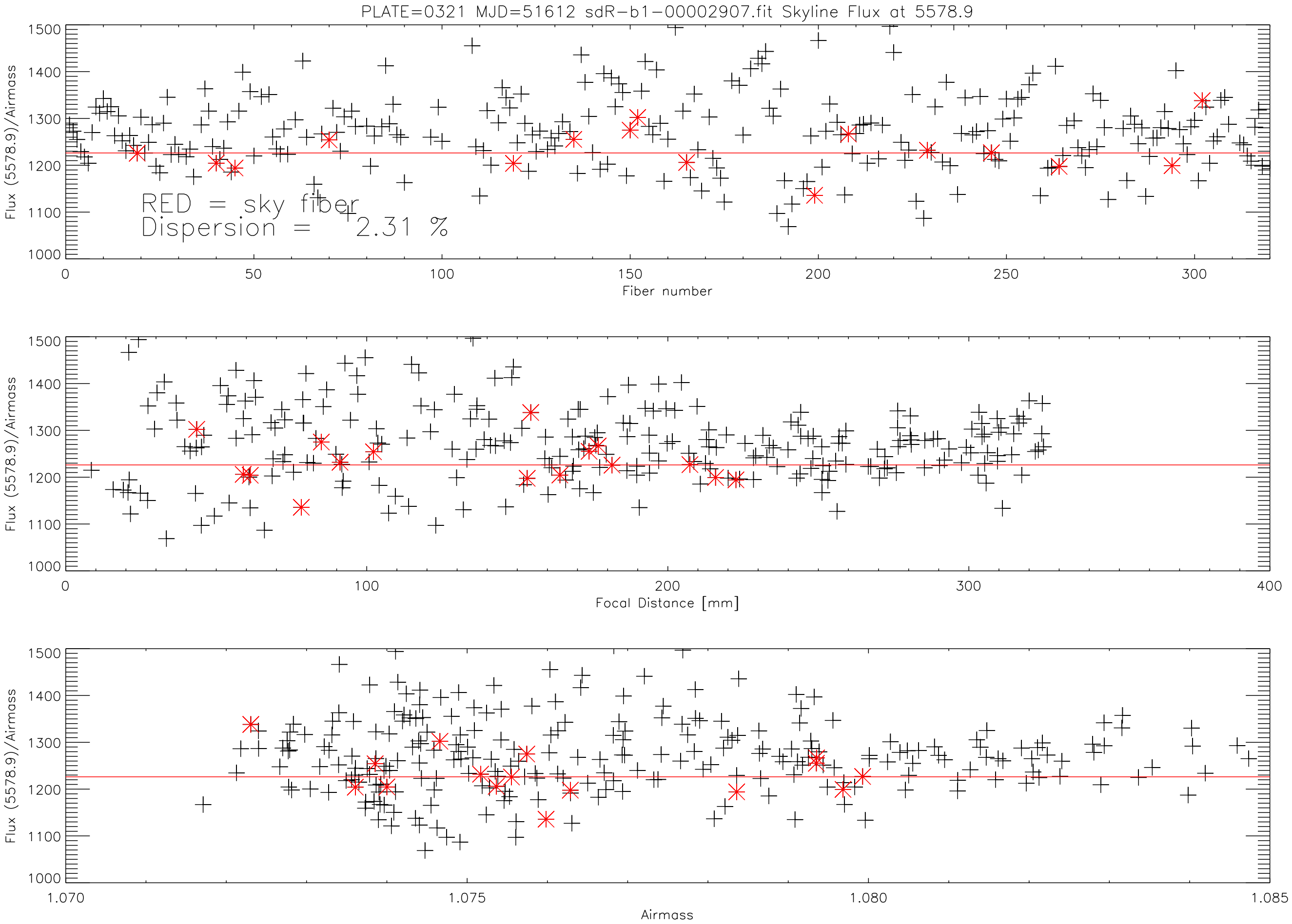

PLATE=0321 MJD=51612 sdR-b1-00002907.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
−20
−40
5570
5575
5580
5585
5590
λ [A]

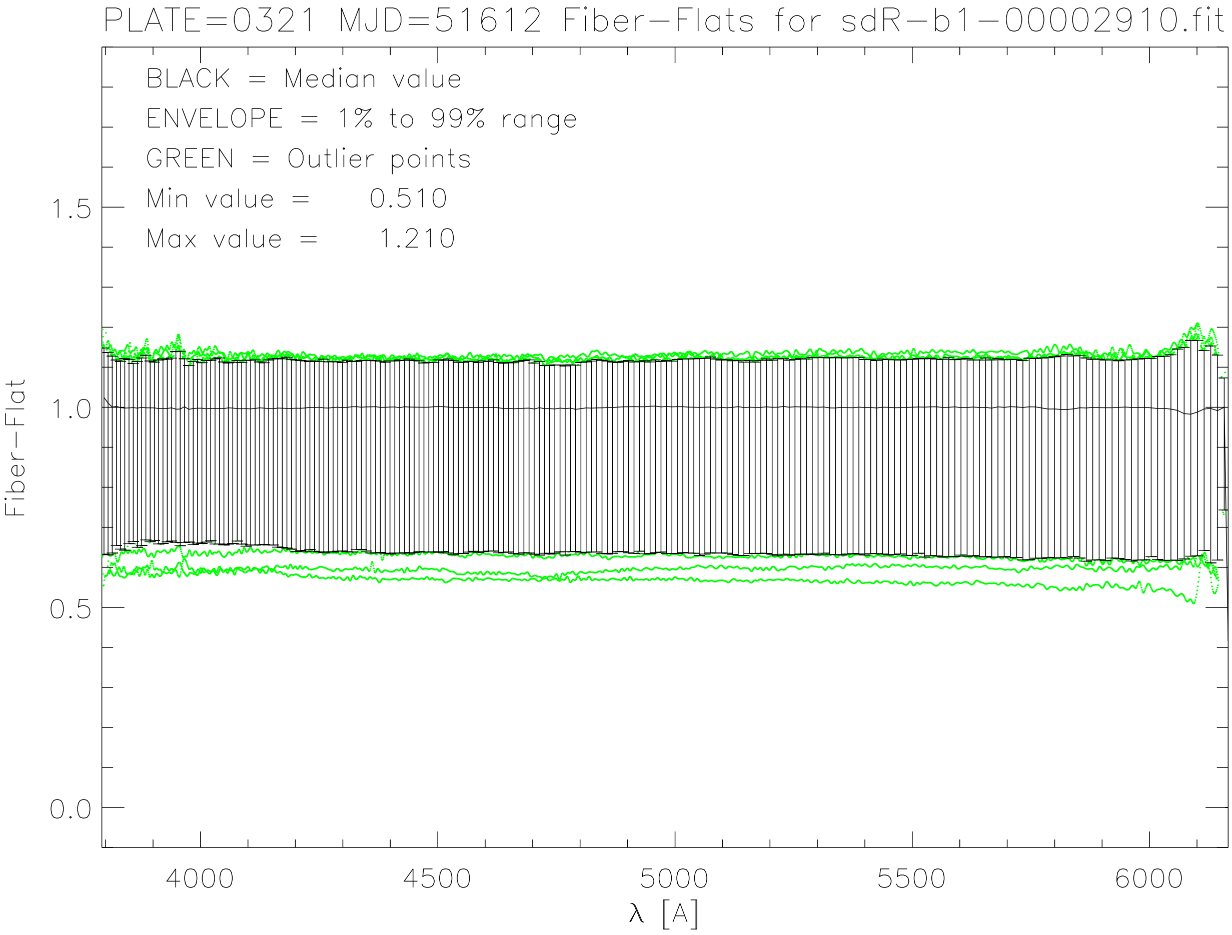
Number of sky fibers = 16

PLATE=0321 MJD=51612 sdR-b1-00002907.fit 2D Sky-subtraction Rescaled Errors

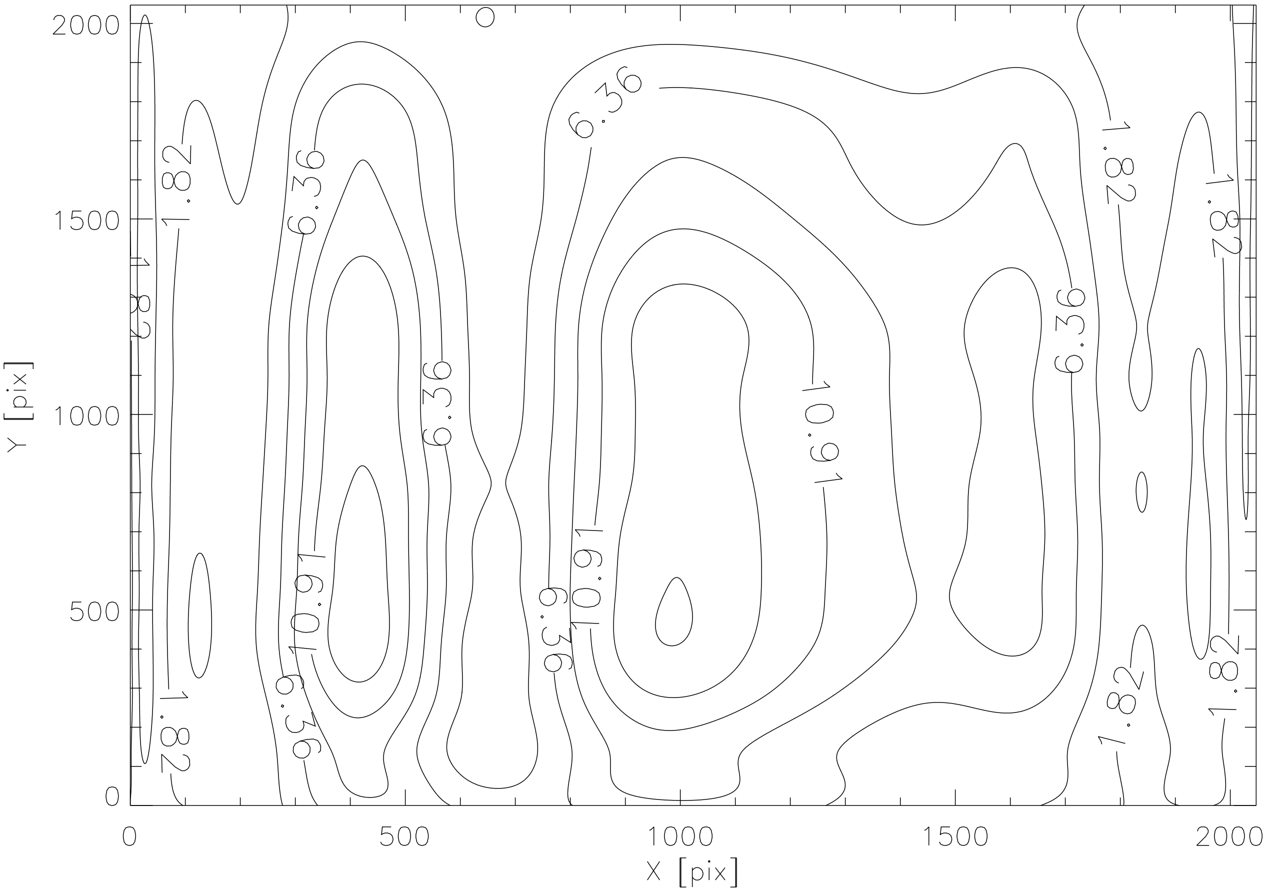



PLATE=0321 MJD=51612 sdR-b1-00002907.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 45.56 %
Flux (4359.5)/Airmass
200
150
100
50
0
-50
-100
0
50
100
150
200
250
300
Fiber number
Focal Distance [mm]
400
1.070
1.075
1.080
1.085
Airmass

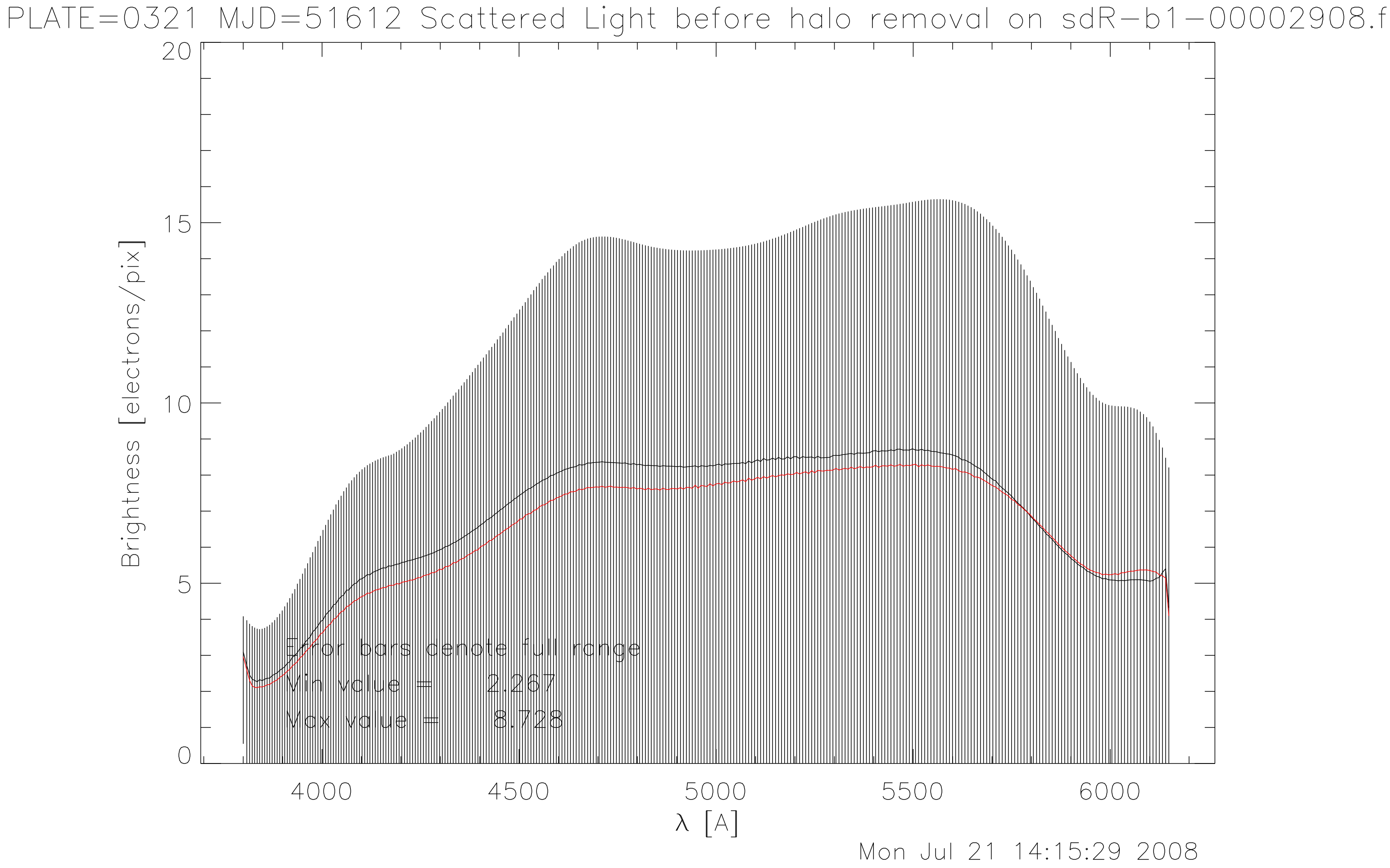

PLATE=0321 MJD=51612 sdR-b1-00002907.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1000
1100
1200
1300
1400
1500
RED = sky fiber
Dispersion = 2.31 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.070
1.075
1.080
1.085
Airmass

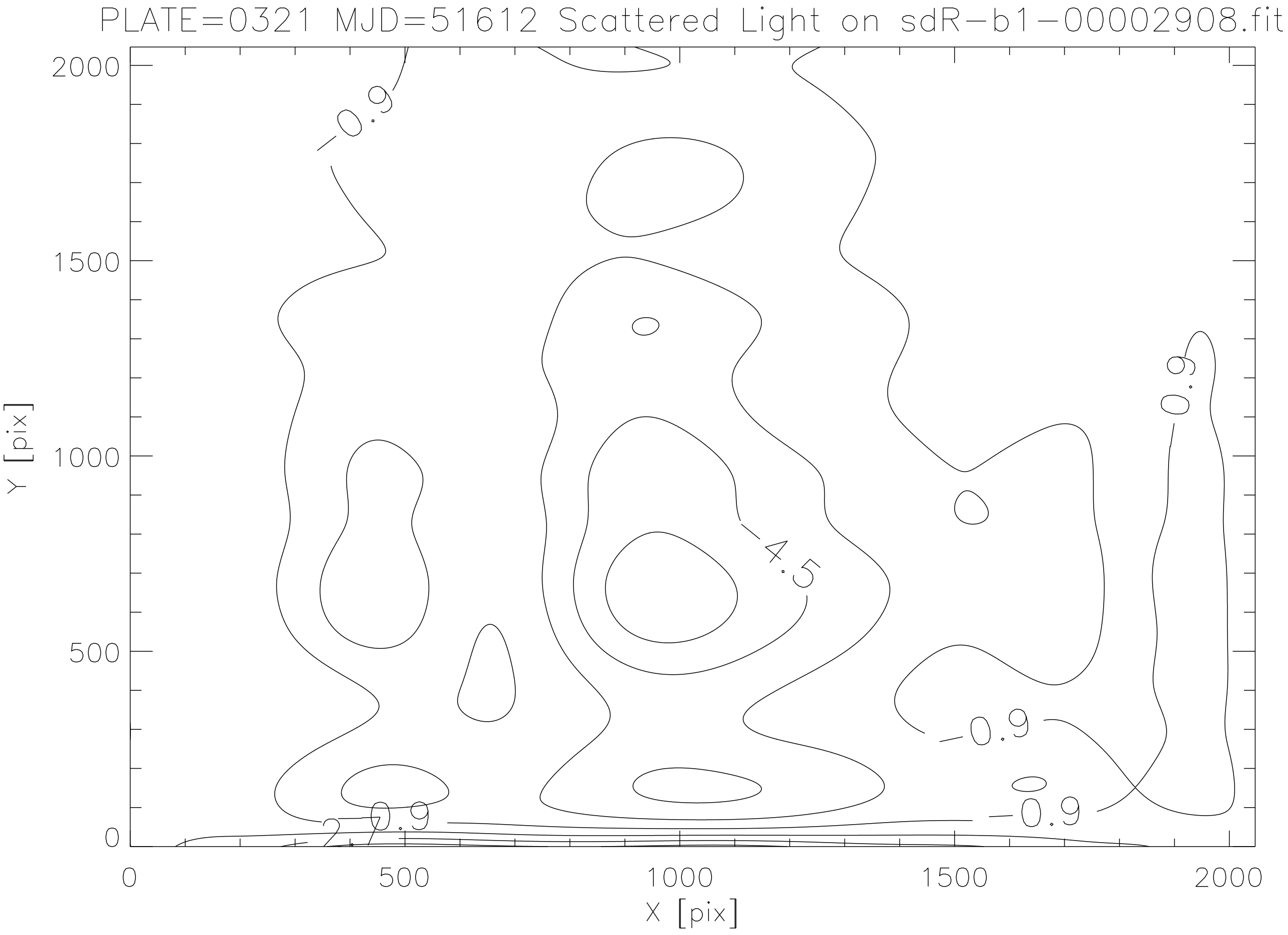


Mon Jul 21 14:14:43 2008



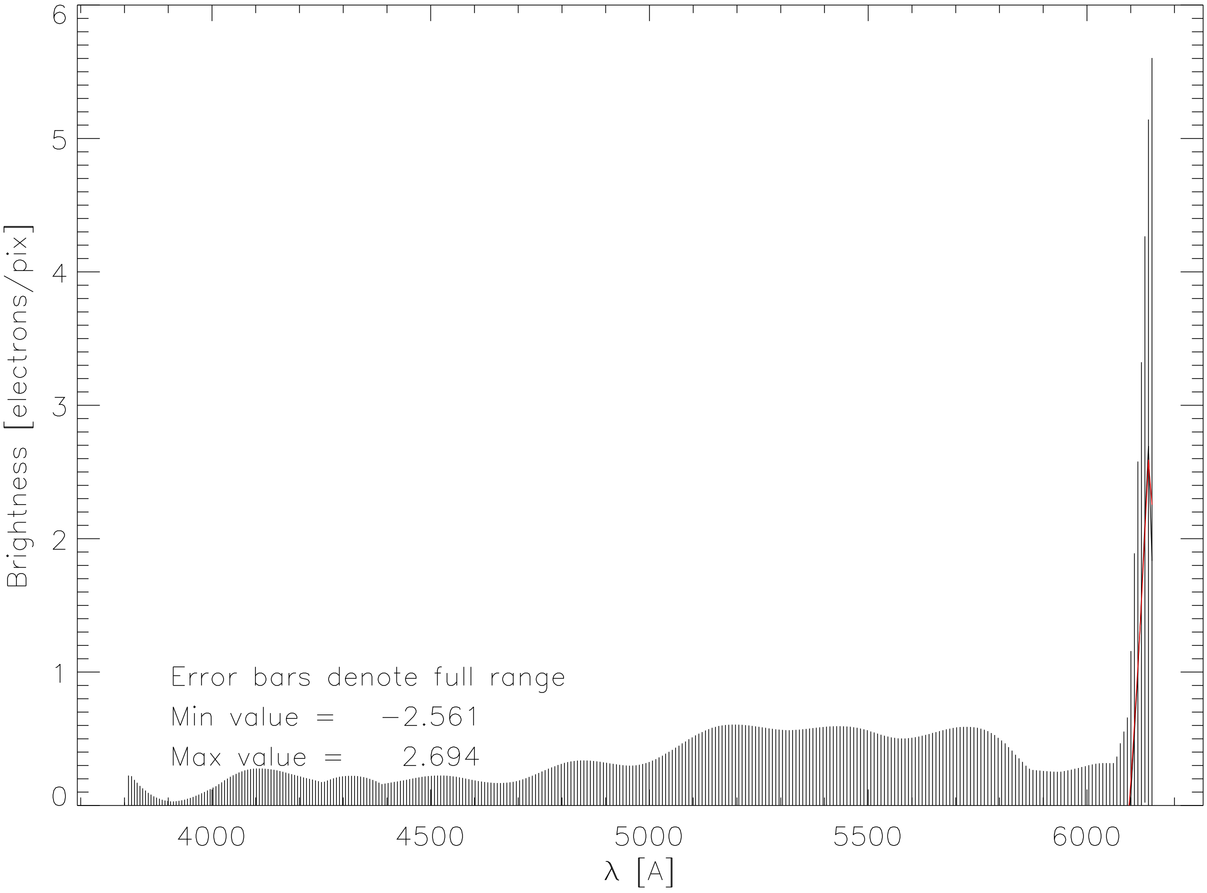
PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002908.f


PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002908.f
Brightness [electrons/pix]
20
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 2.267
Max value = 8.728
Mon Jul 21 14:15:29 2008

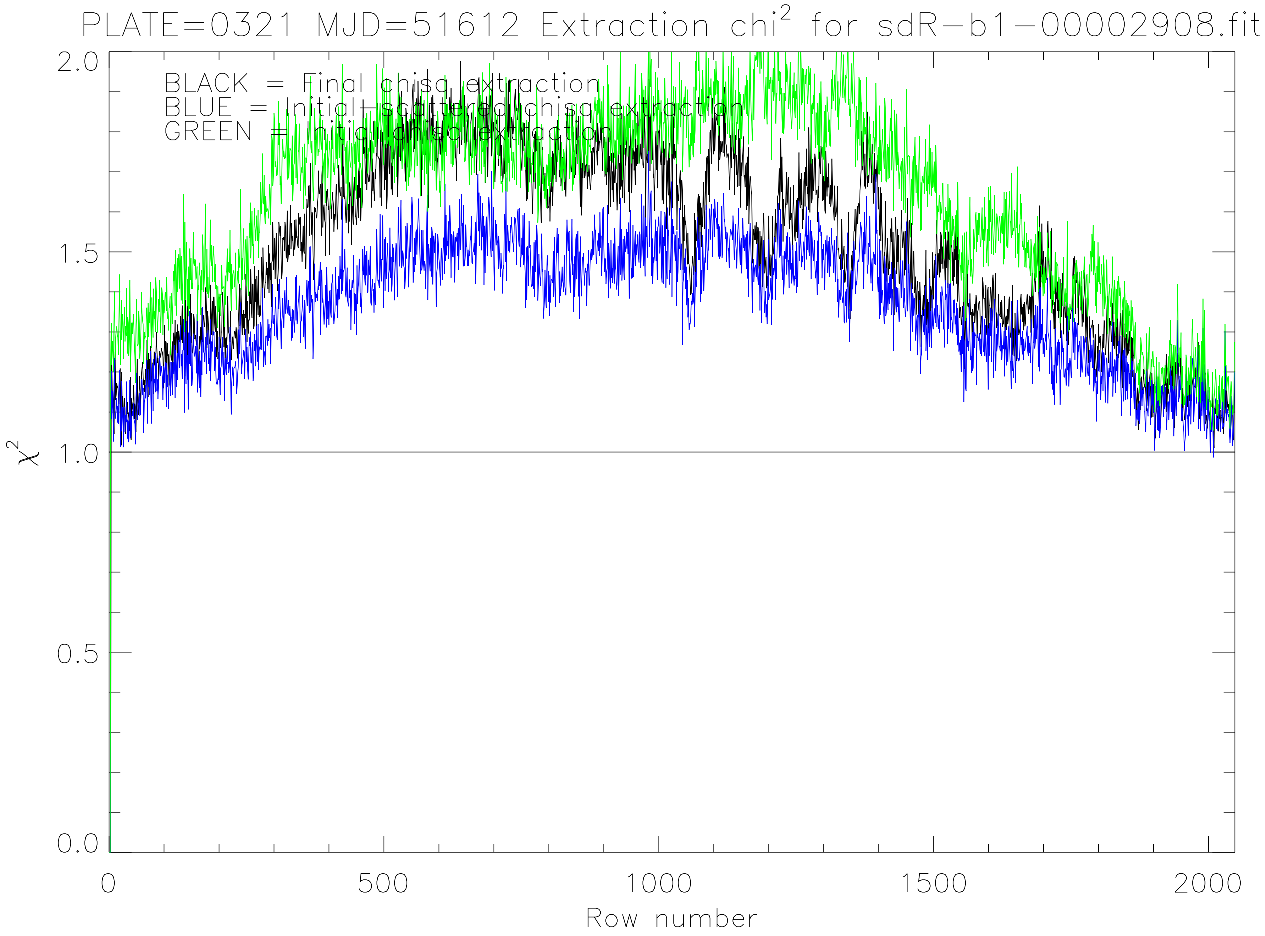


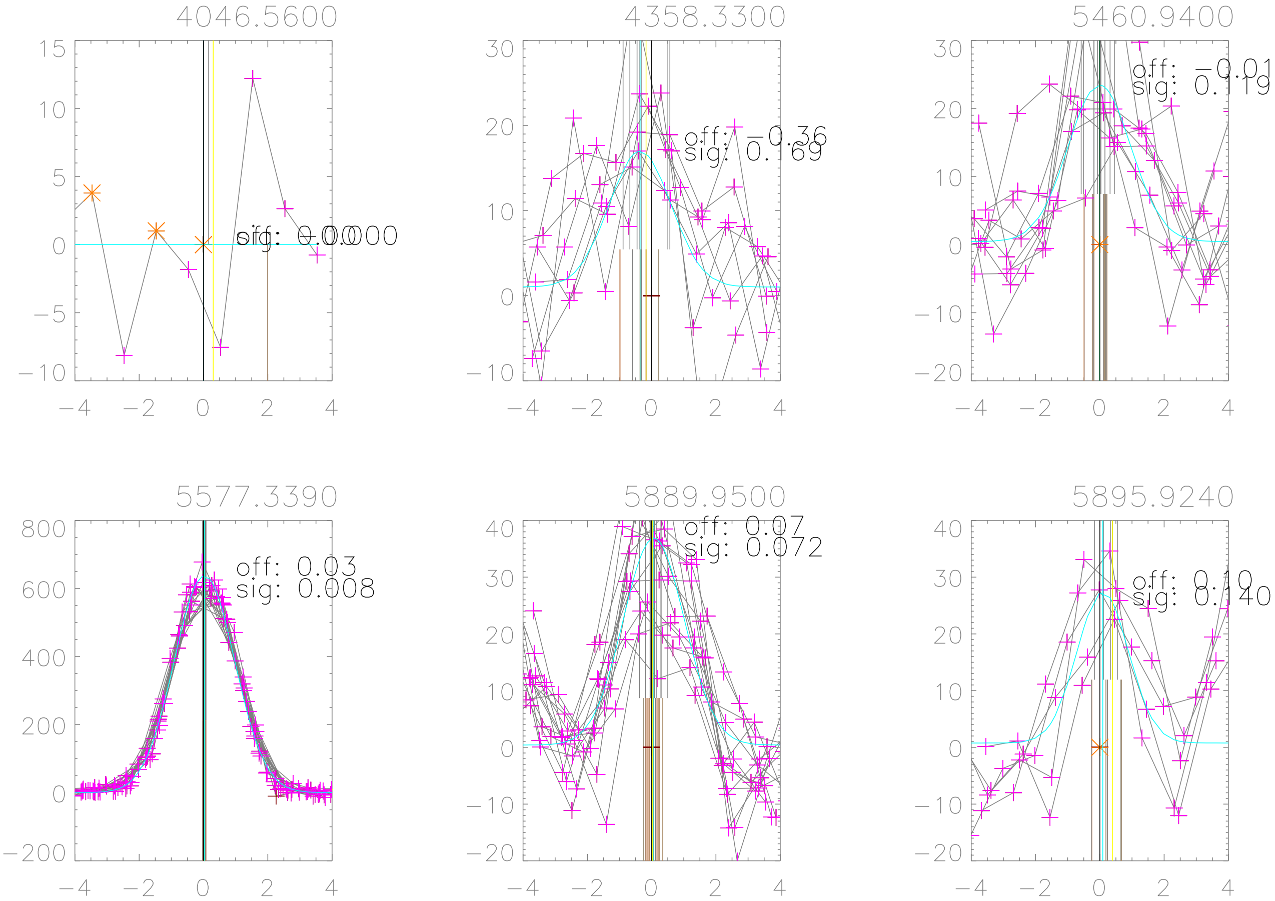
PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002908.fit

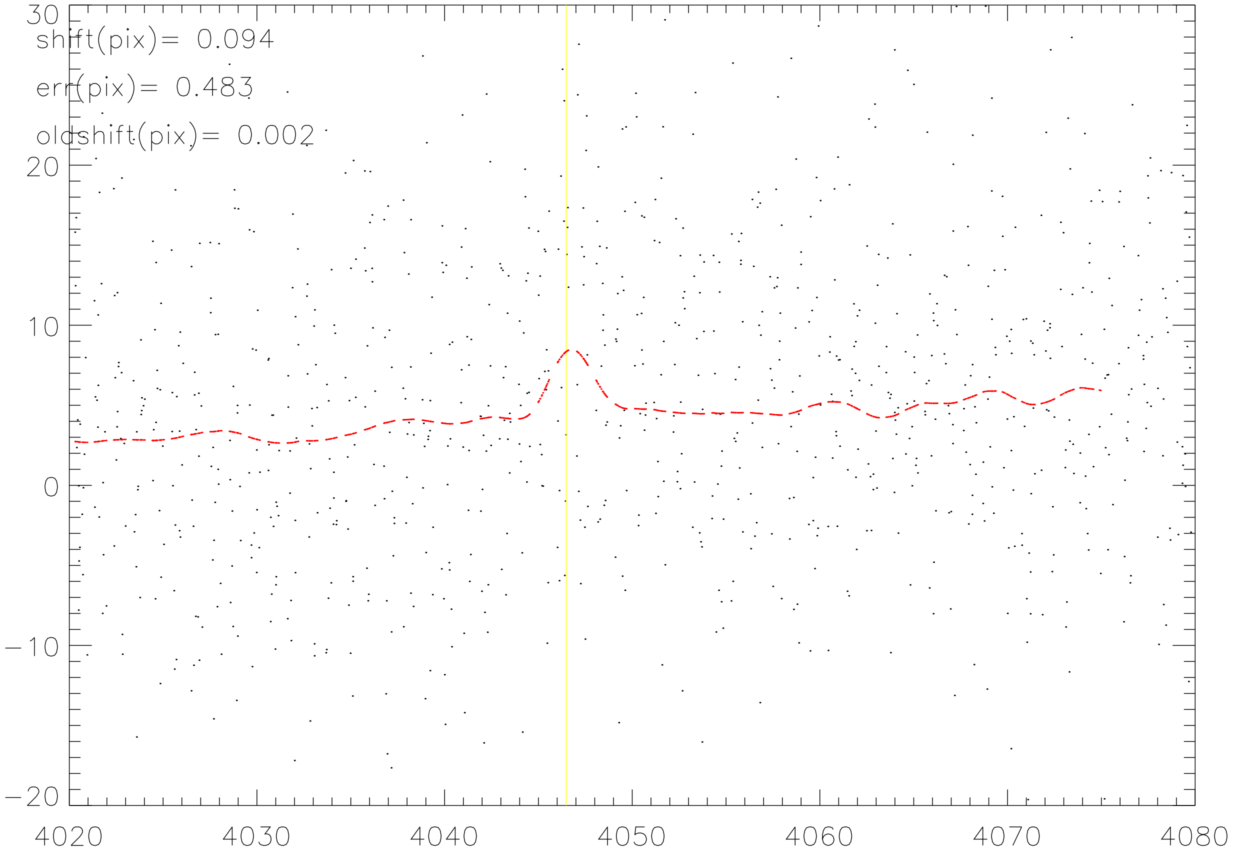
PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002908.fit

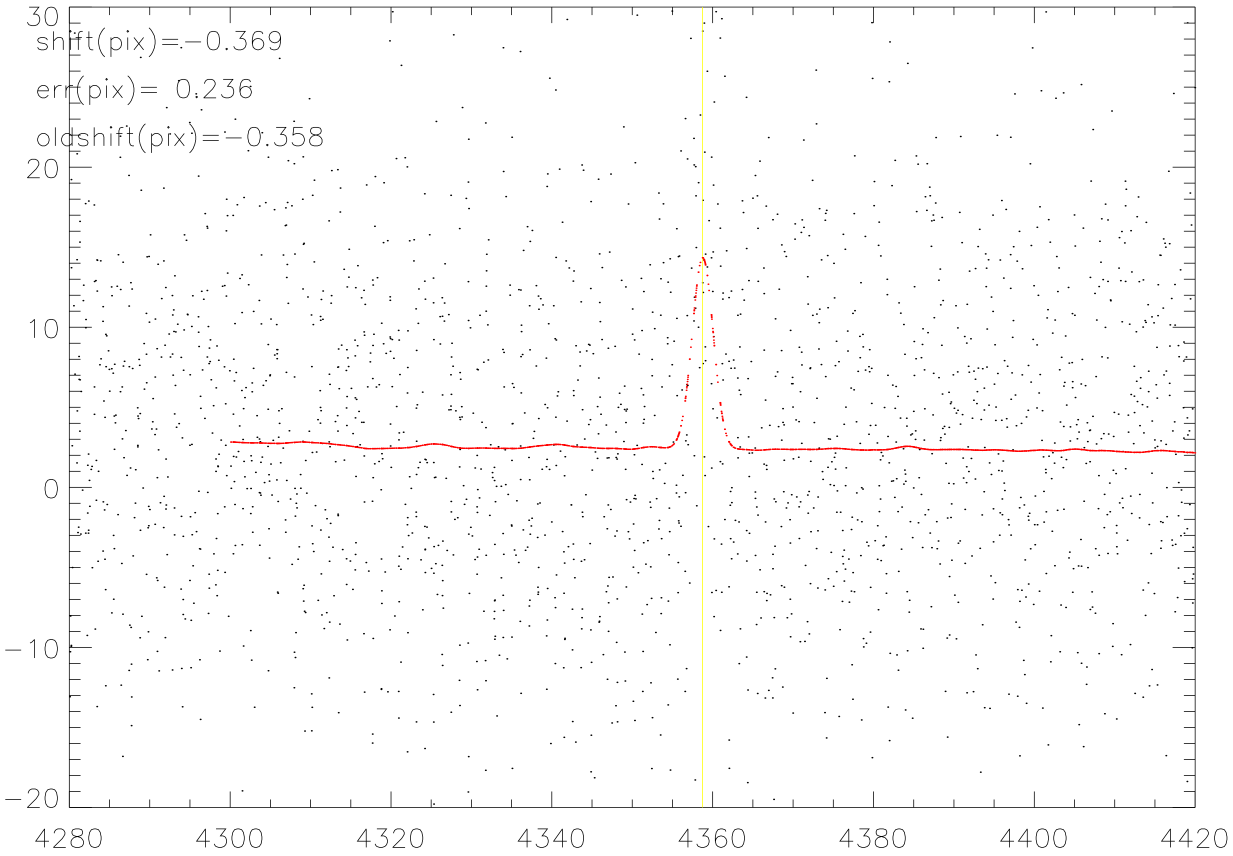


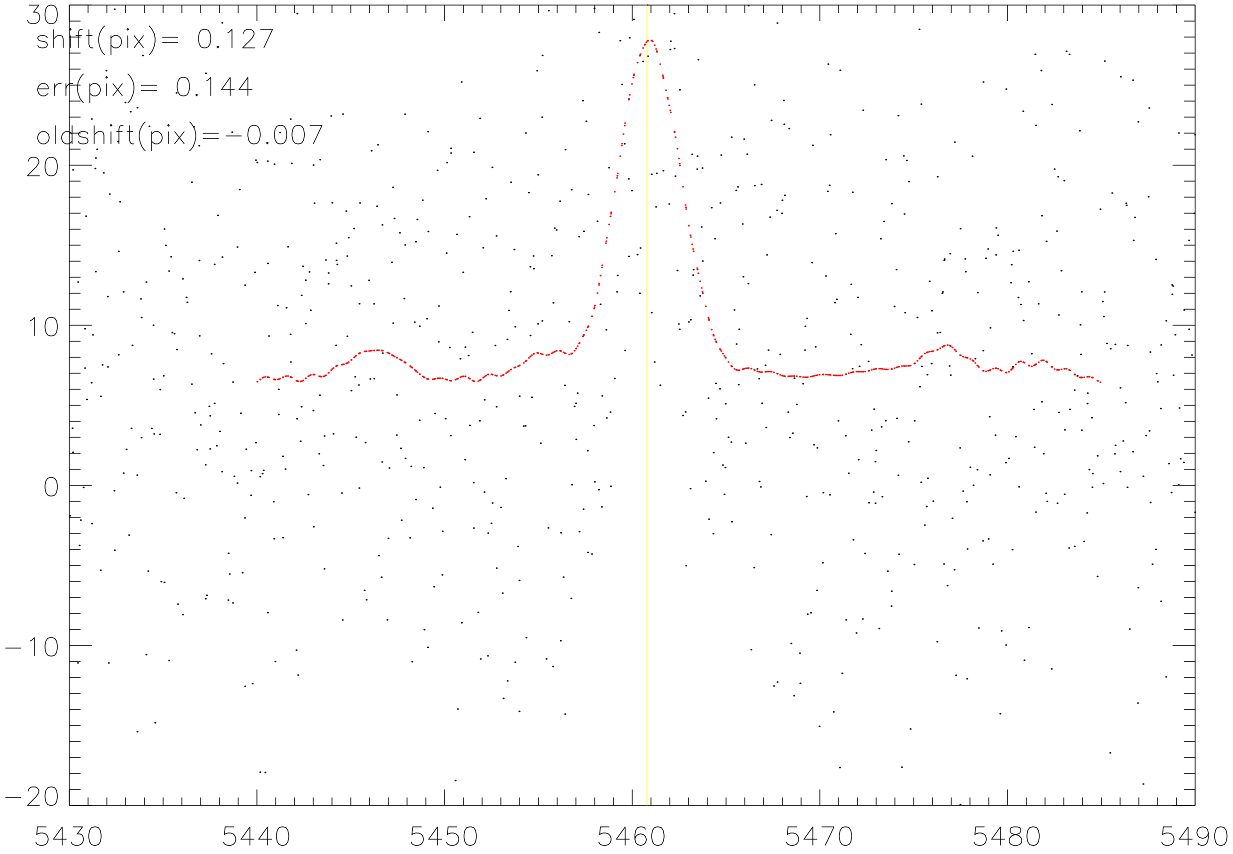
Mon Jul 21 14:18:29 2008

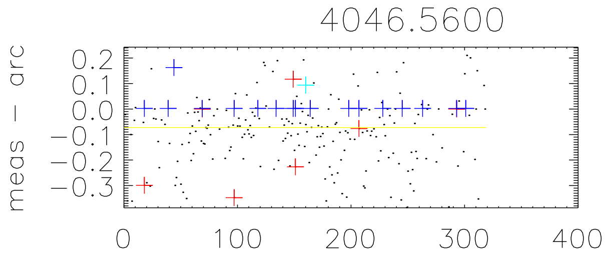

PLATE=0321 MJD=51612 Extraction chi^2 for sdR-b1-00002908.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0.0
0.5
1.0
1.5
2.0
0
500
1000
1500
2000
Row number

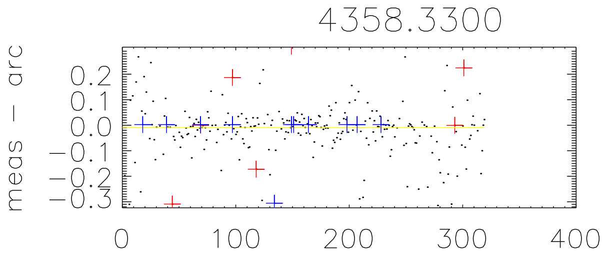

4046.5600
off: 0.00
sig: 0.000
4358.3300
off: −0.36
sig: 0.169
5460.9400
off: −0.01
sig: 0.119
5577.3390
off: 0.03
sig: 0.008
5889.9500
off: 0.07
sig: 0.072
5895.9240
off: 0.10
sig: 0.140

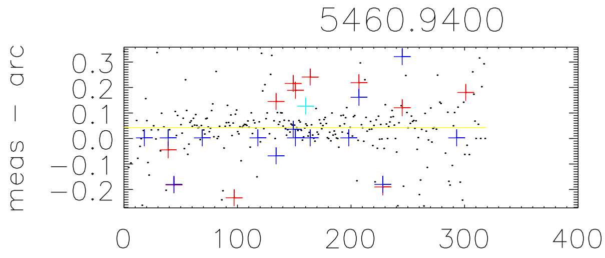

shift(pix)= 0.094
err(pix)= 0.483
oldshift(pix)= 0.002
30
20
10
0
−10
−20
4020
4030
4040
4050
4060
4070
4080

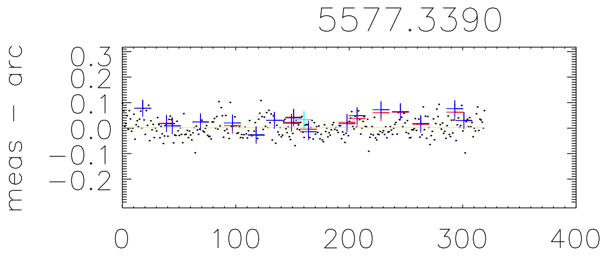

shift(pix)=-0.369
err(pix)= 0.236
oldshift(pix)=-0.358
30
20
10
0
-10
-20
4280
4300
4320
4340
4360
4380
4400
4420

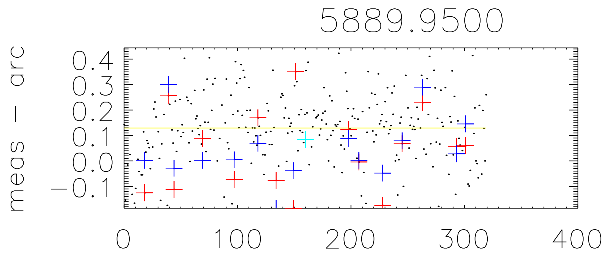

shift(pix)= 0.127
err(pix)= 0.144
oldshift(pix)=−0.007
30
20
10
0
−10
−20
5430
5440
5450
5460
5470
5480
5490

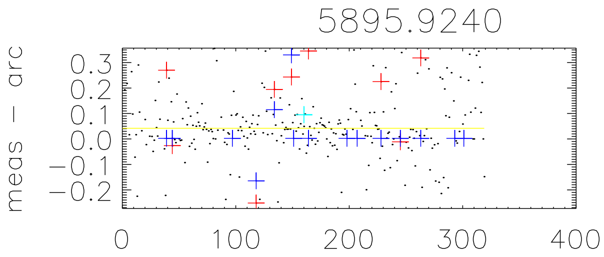

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

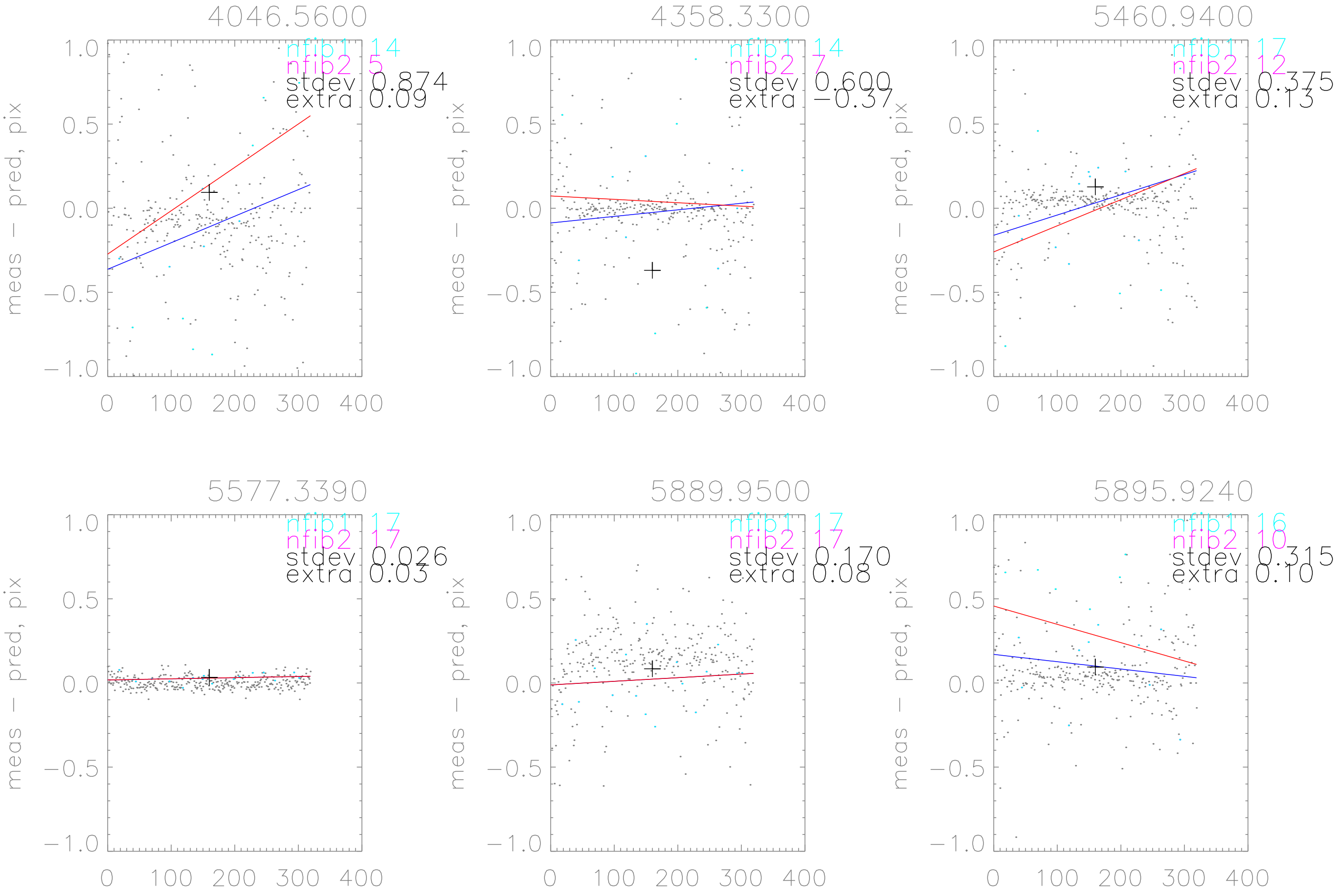

4358.3300
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

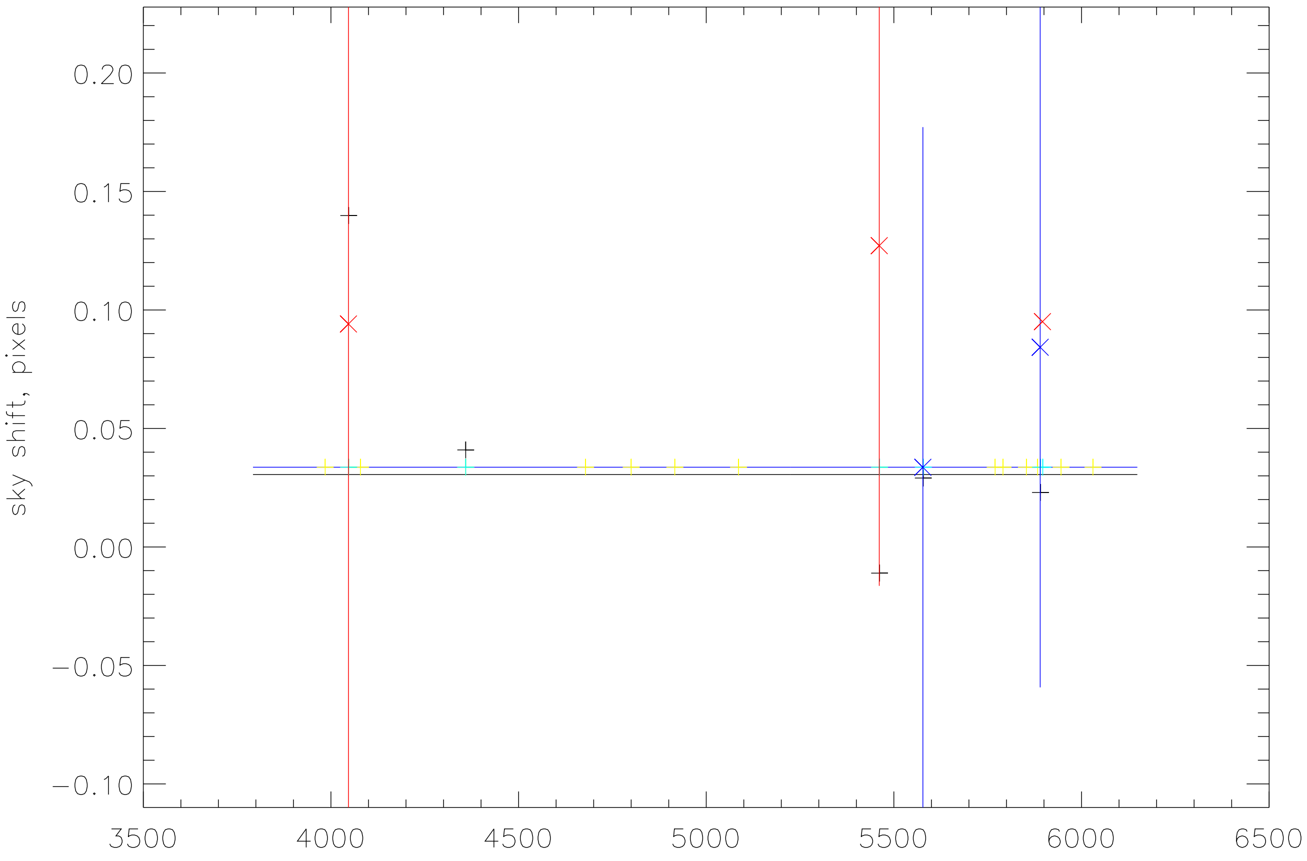

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

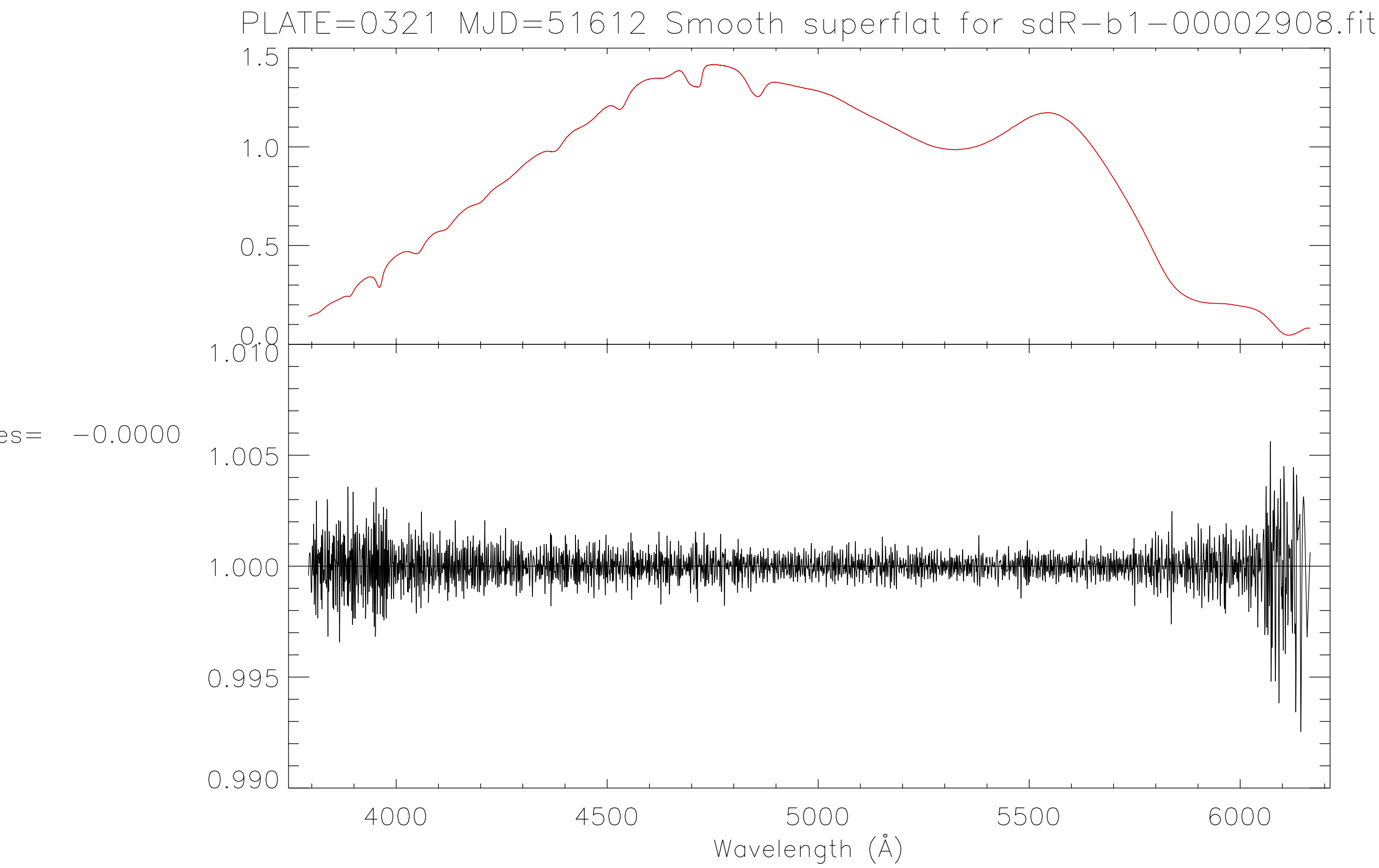

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

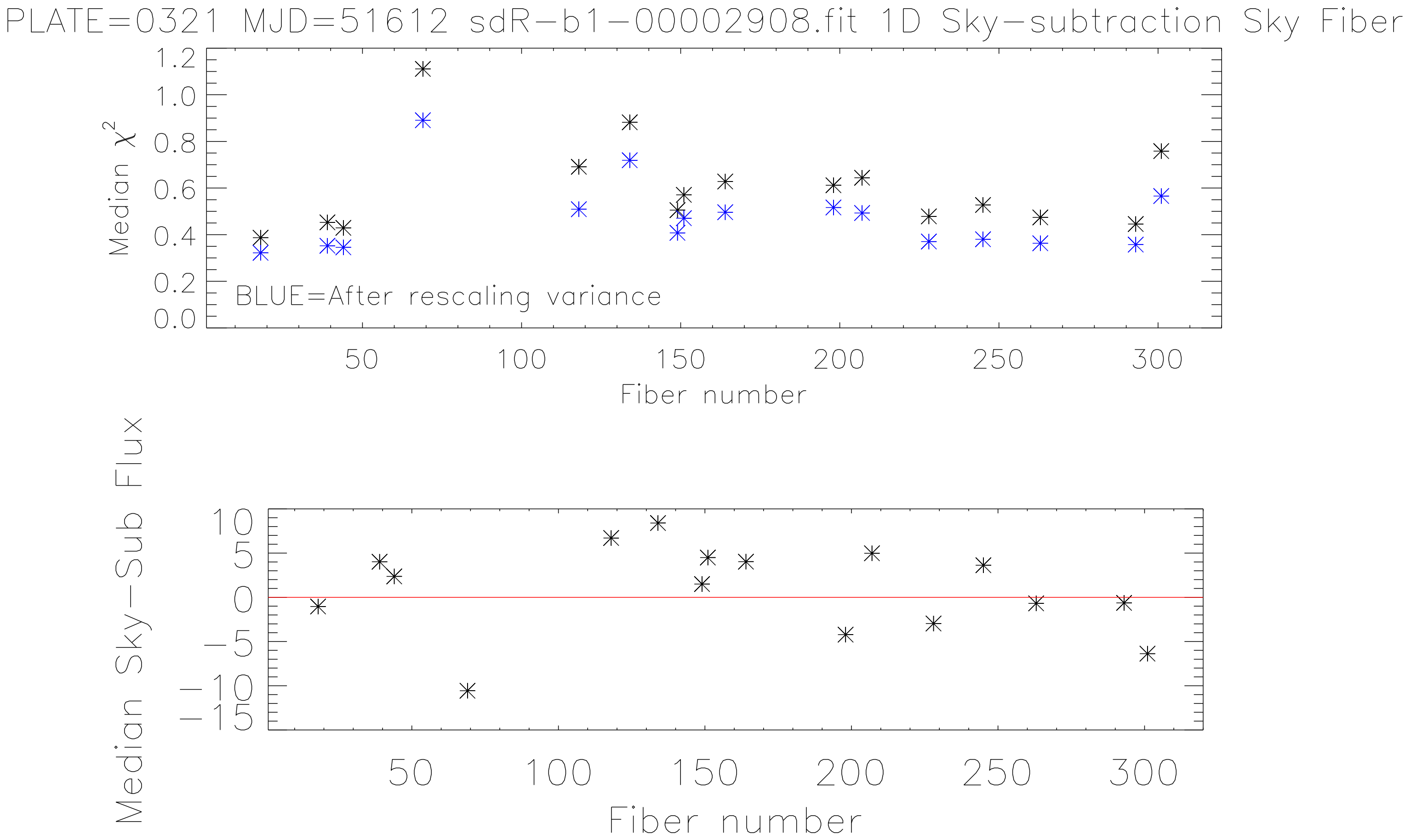

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

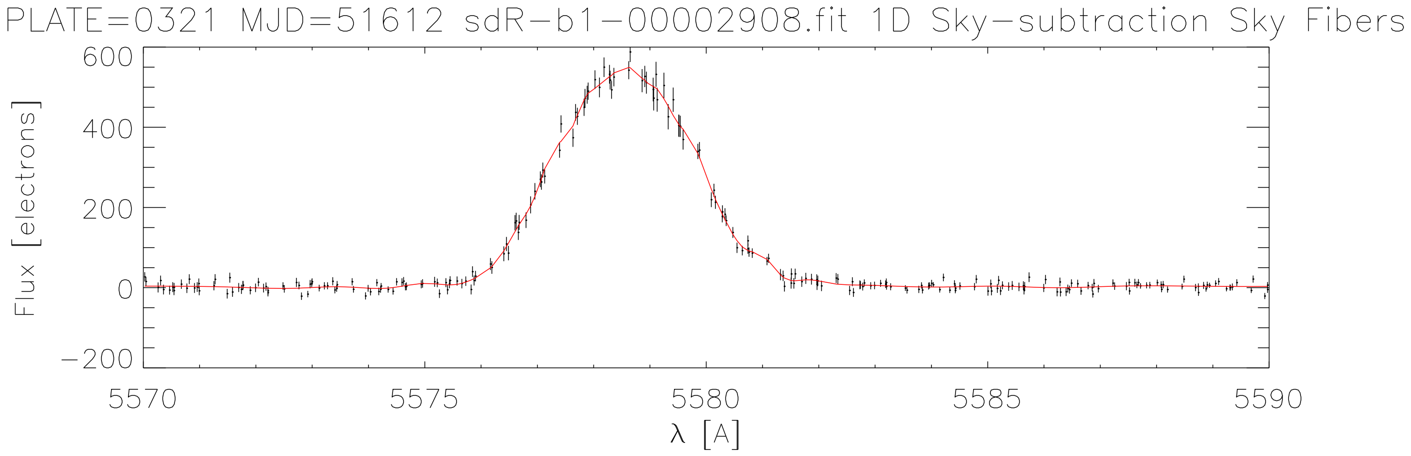

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400


4046.5600
nfib1 14
nfib2 5
stdev 0.874
extra 0.09
4358.3300
nfib1 14
nfib2 7
stdev 0.600
extra −0.37
5460.9400
nfib1 17
nfib2 12
stdev 0.375
extra 0.13
5577.3390
nfib1 17
nfib2 17
stdev 0.026
extra 0.03
5889.9500
nfib1 17
nfib2 17
stdev 0.170
extra 0.08
5895.9240
nfib1 16
nfib2 10
stdev 0.315
extra 0.10
meas – pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

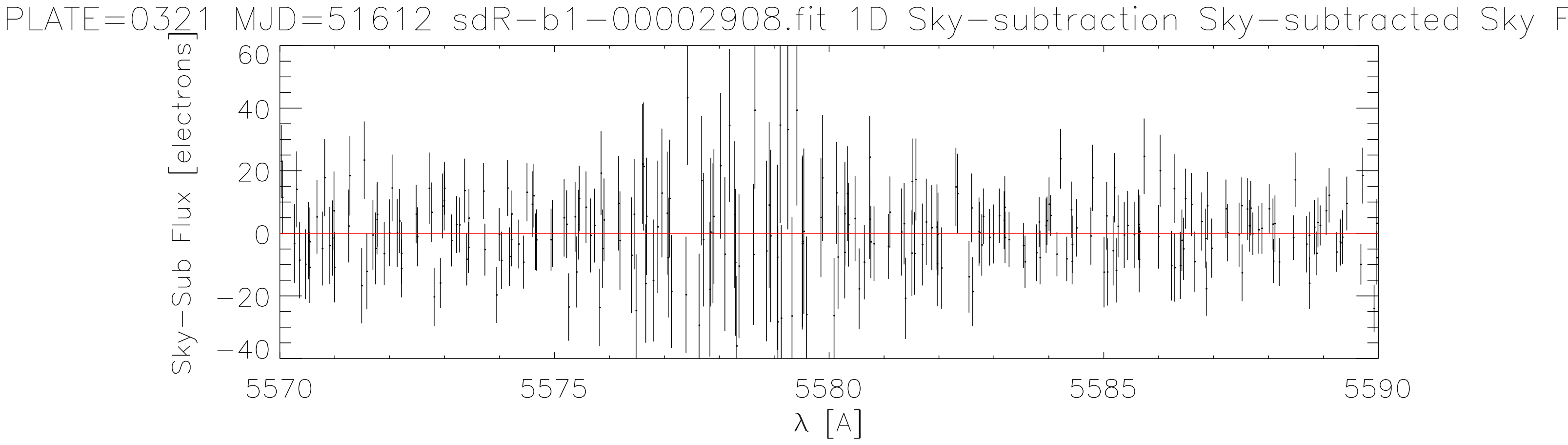

sky shift, pixels
0.20
0.15
0.10
0.05
0.00
−0.05
−0.10
3500
4000
4500
5000
5500
6000
6500


PLATE=0321 MJD=51612 Smooth superflat for sdR-b1-00002908.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

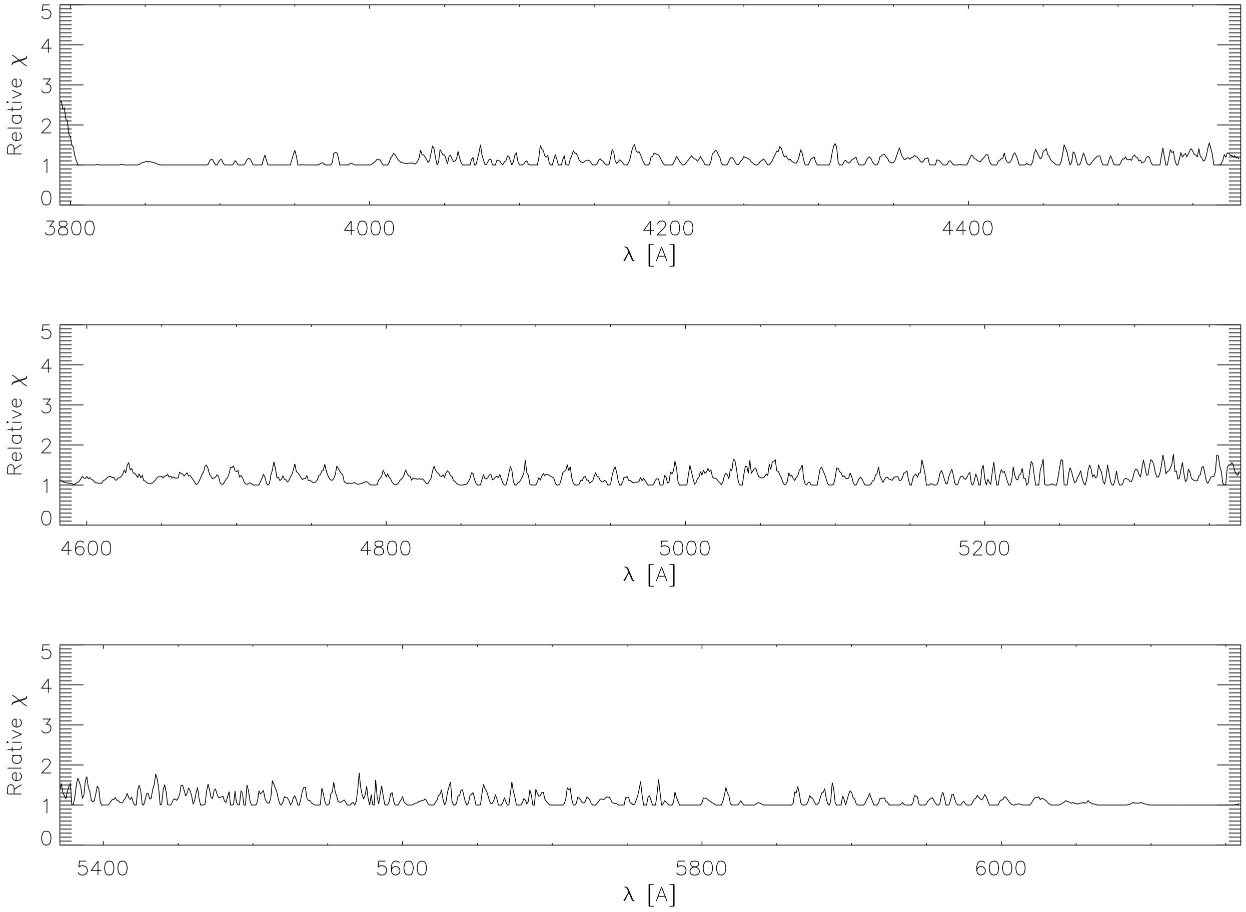

PLATE=0321 MJD=51612 sdR-b1-00002908.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number



PLATE=0321 MJD=51612 sdR-b1-00002908.fit 1D Sky-subtraction Sky Fibers

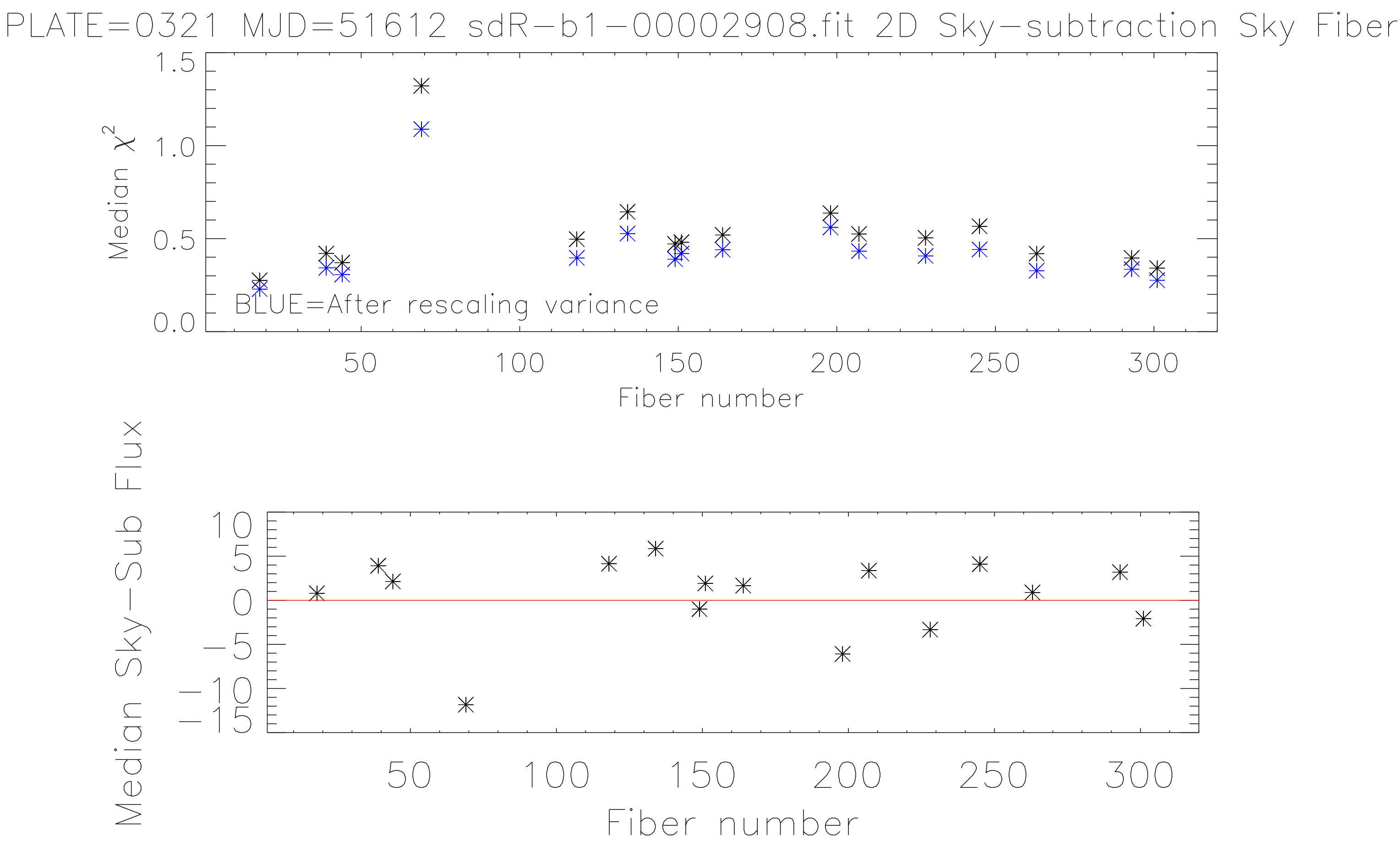


PLATE=0321 MJD=51612 sdR-b1-00002908.fit 1D Sky-subtraction Sky-subtracted Sky F

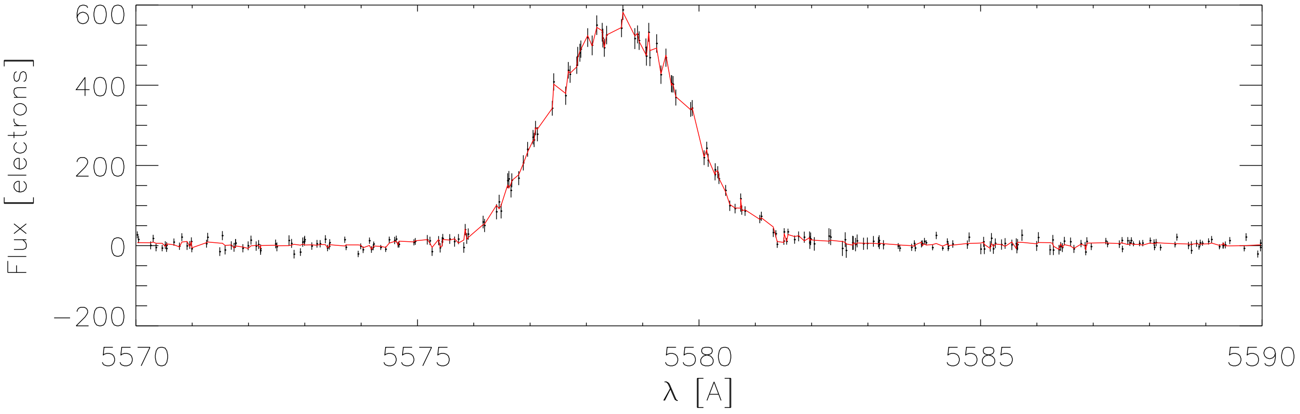


Number of sky fibers = 16

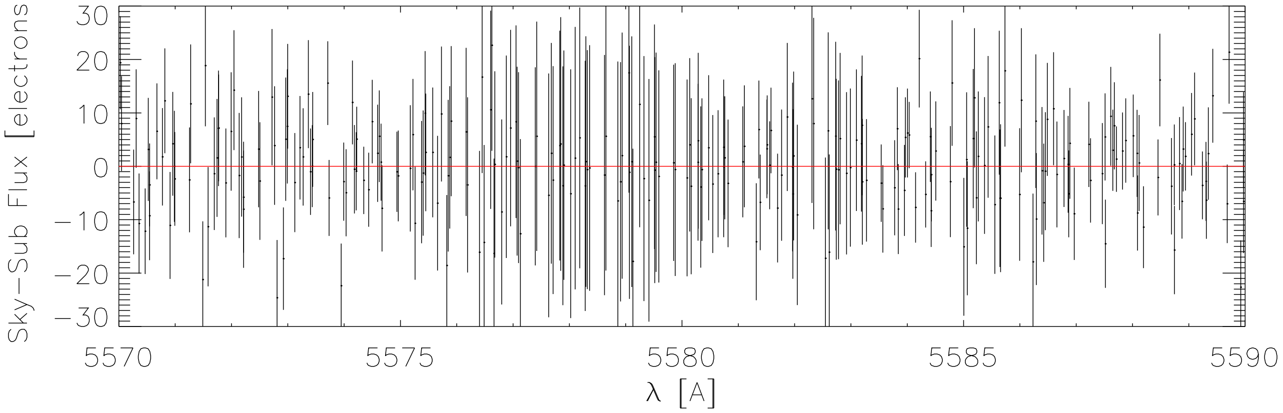
PLATE=0321 MJD=51612 sdR-b1-00002908.fit 1D Sky-subtraction Rescaled Errors


PLATE=0321 MJD=51612 sdR-b1-00002908.fit 2D Sky-subtraction Sky Fiber

PLATE=0321 MJD=51612 sdR-b1-00002908.fit 2D Sky-subtraction Sky Fibers

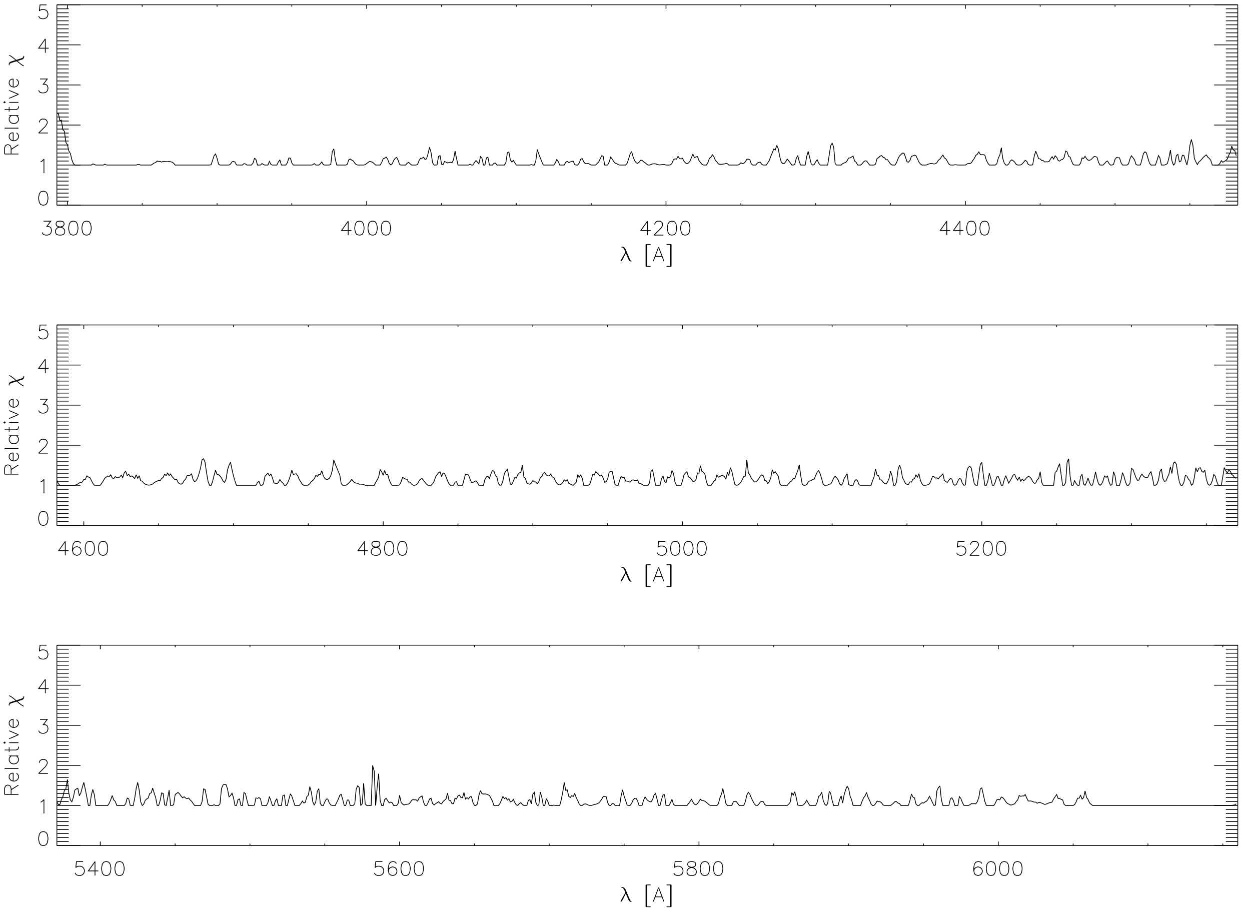


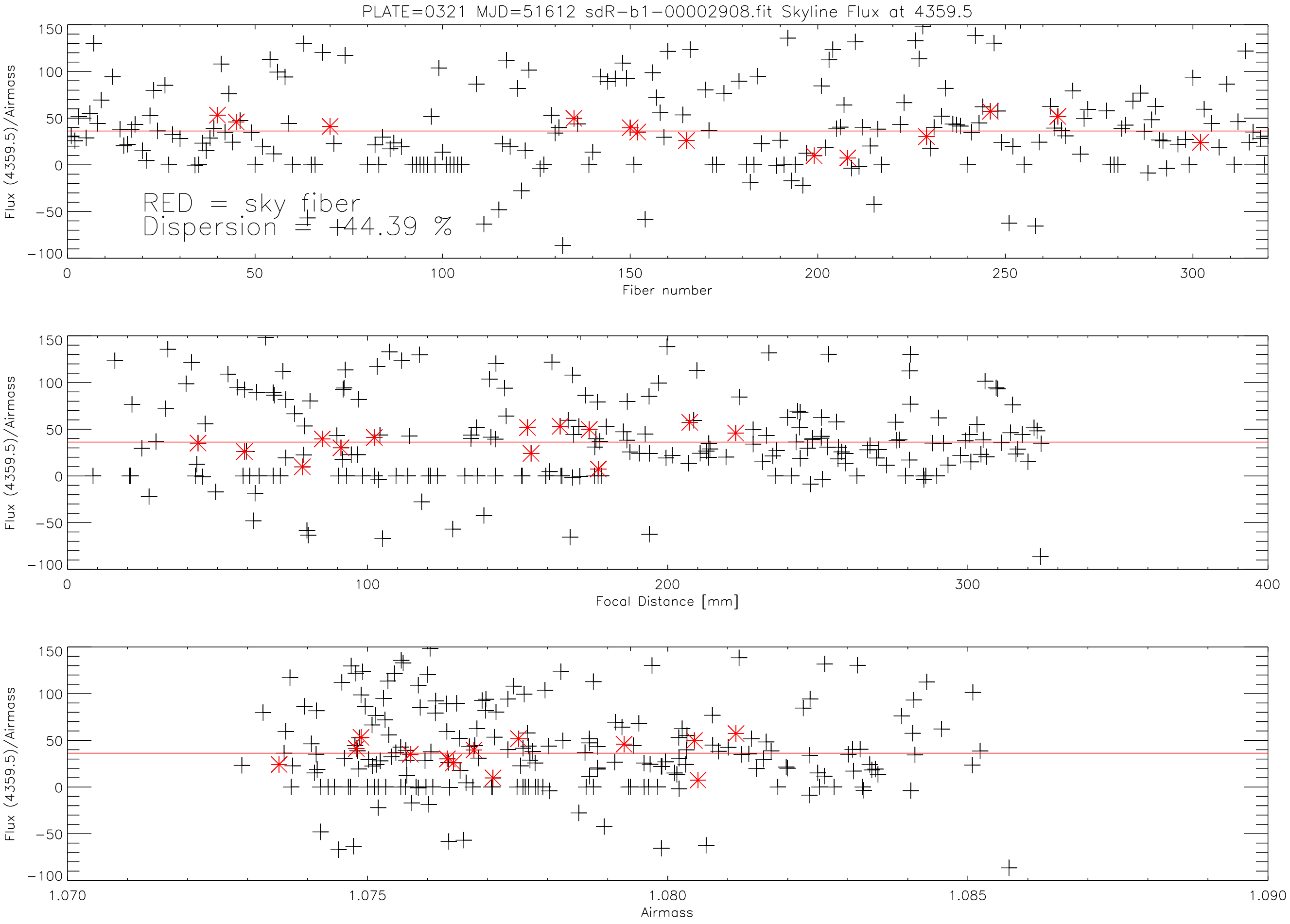
PLATE=0321 MJD=51612 sdR-b1-00002908.fit 2D Sky-subtraction Sky-subtracted Sky F

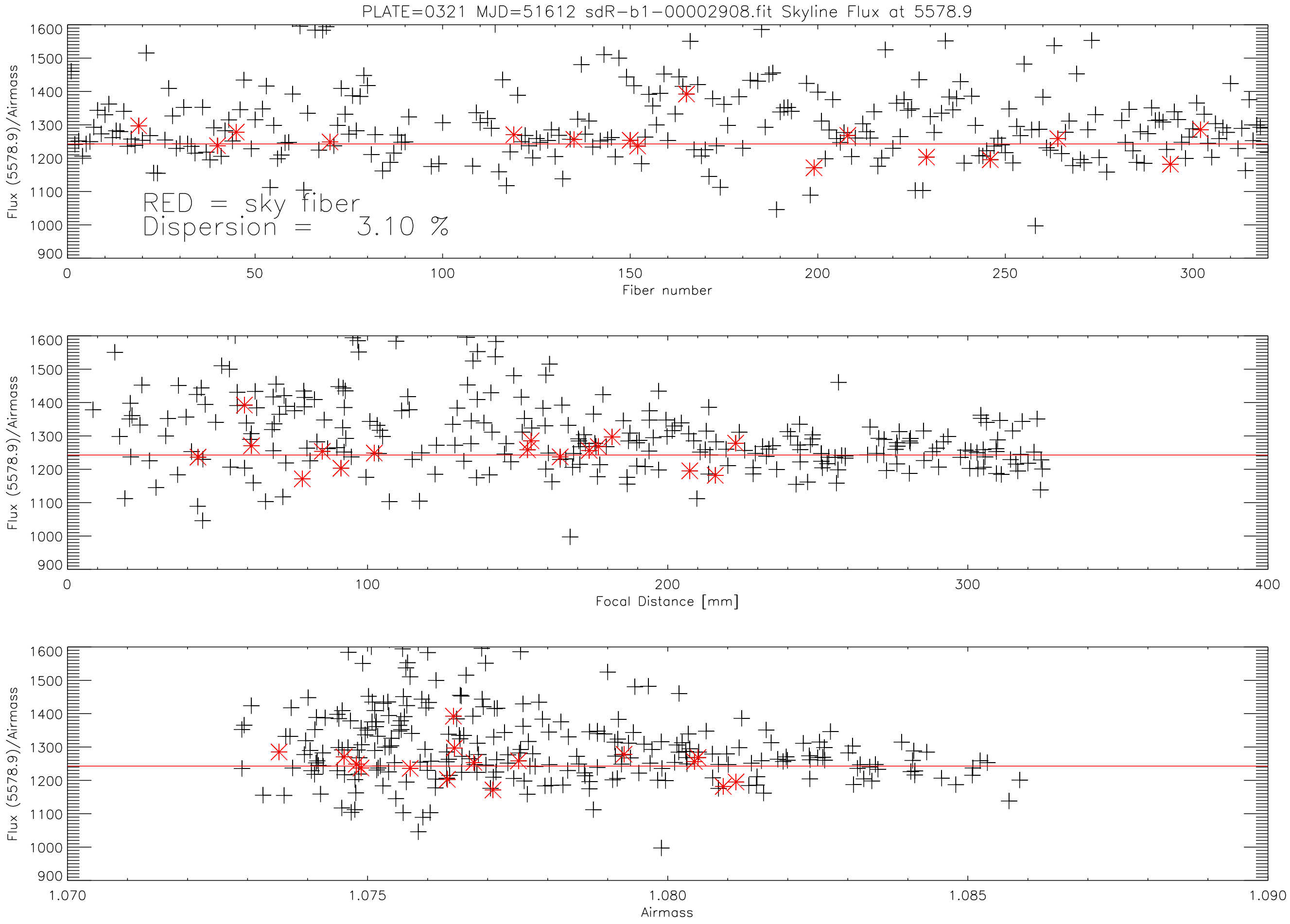


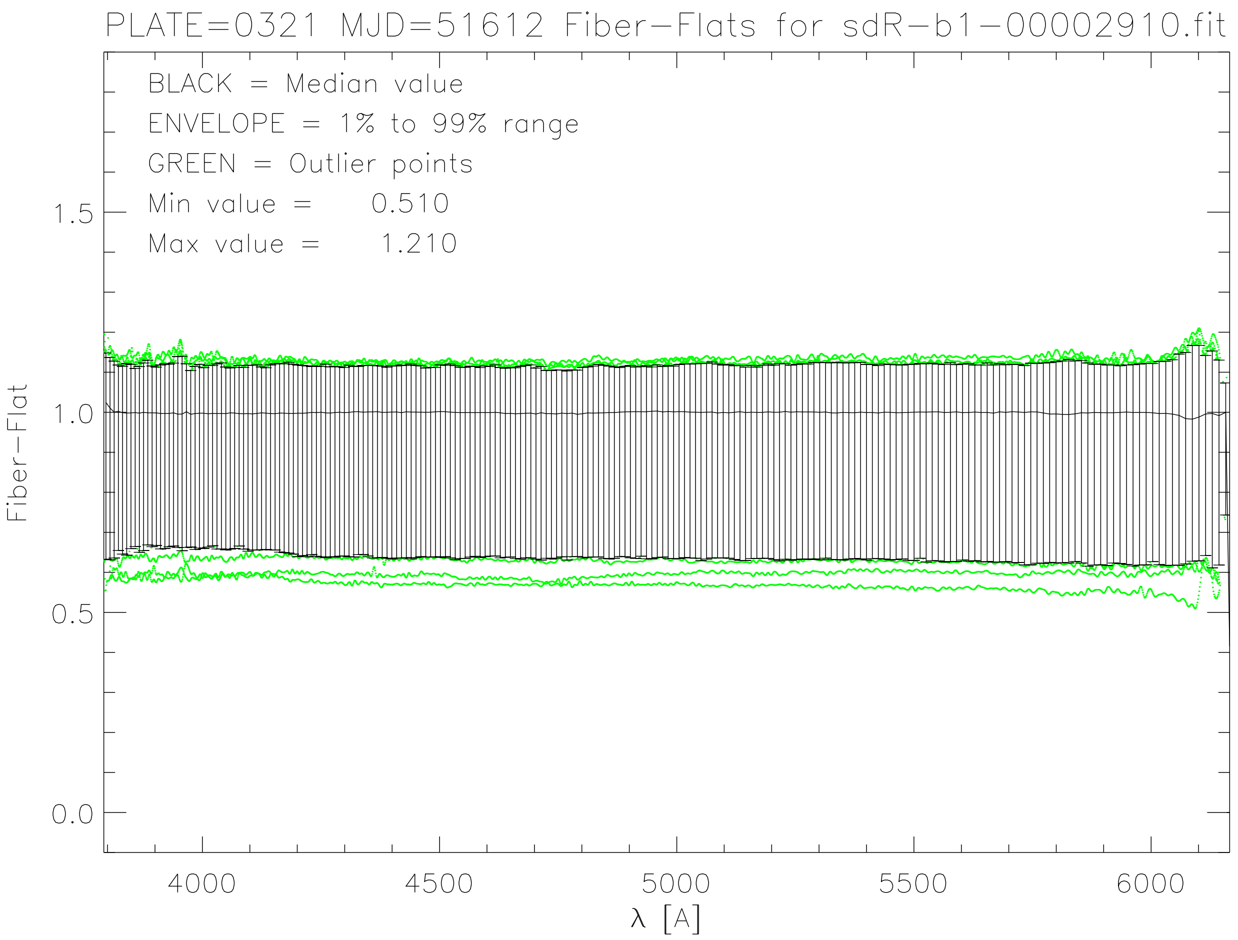
Number of sky fibers = 16

PLATE=0321 MJD=51612 sdR-b1-00002908.fit 2D Sky-subtraction Rescaled Errors

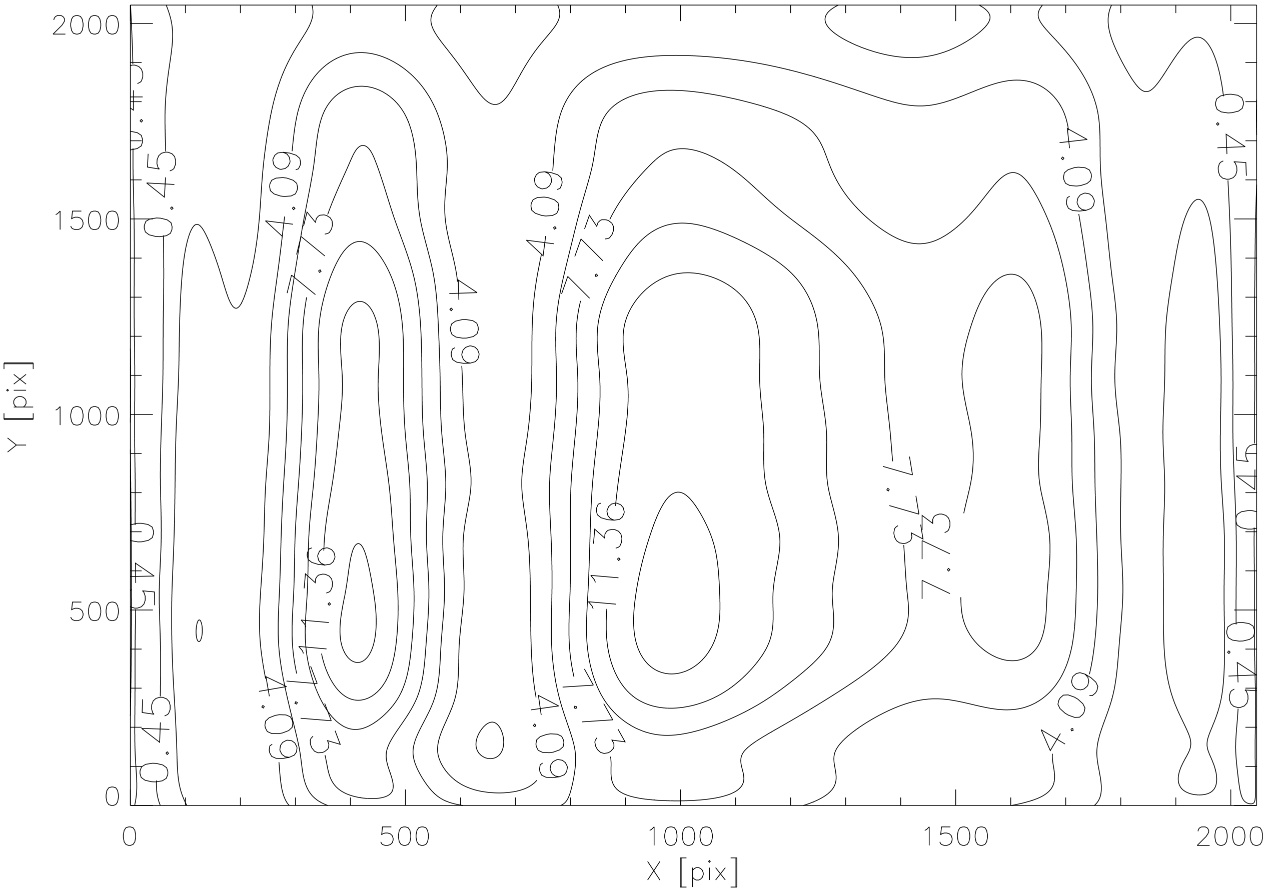


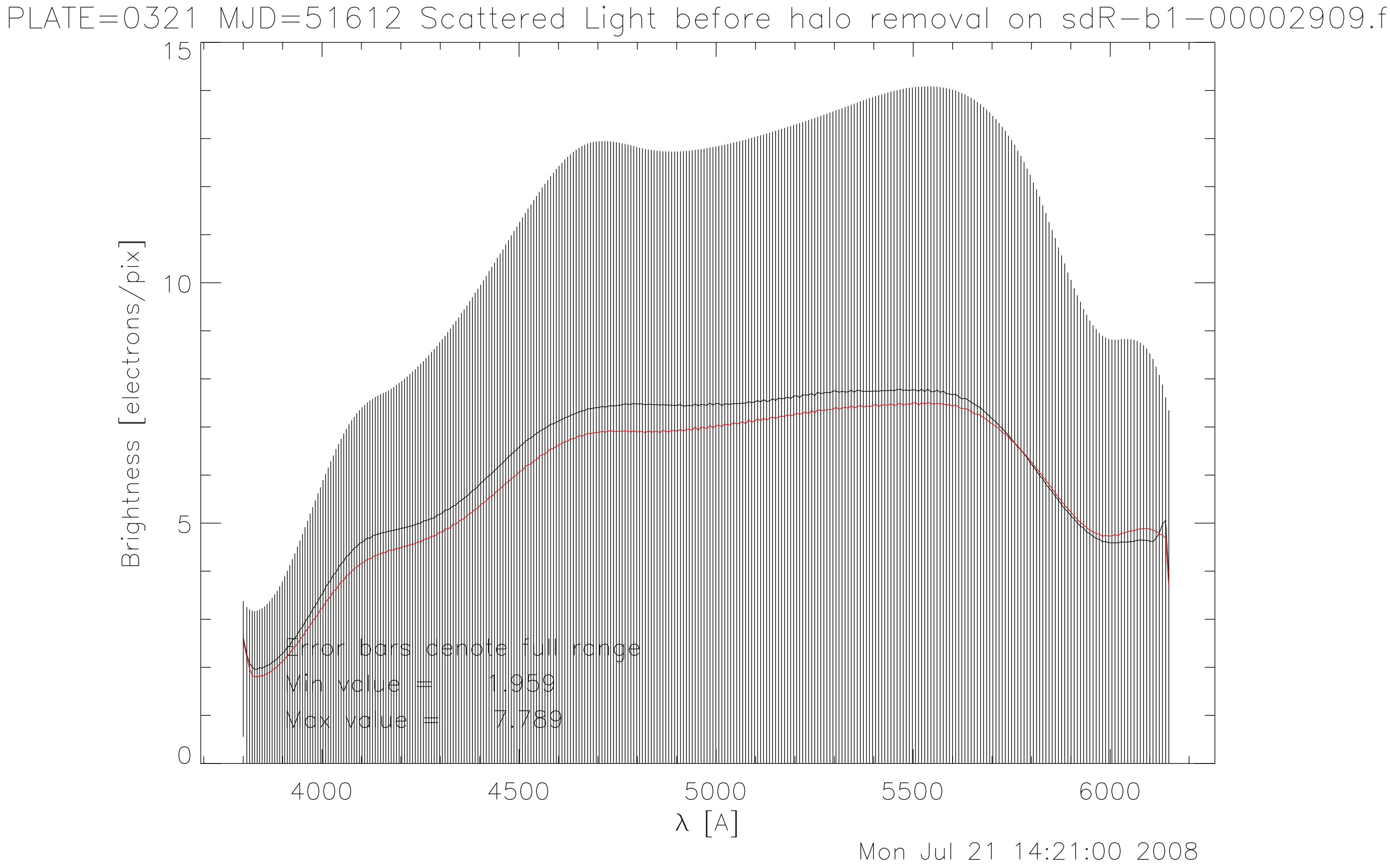

PLATE=0321 MJD=51612 sdR-b1-00002908.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
150
100
50
0
−50
−100
RED = sky fiber
Dispersion = 44.39 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
150
100
50
0
−50
−100
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
150
100
50
0
−50
−100
1.070
1.075
1.080
1.085
1.090
Airmass

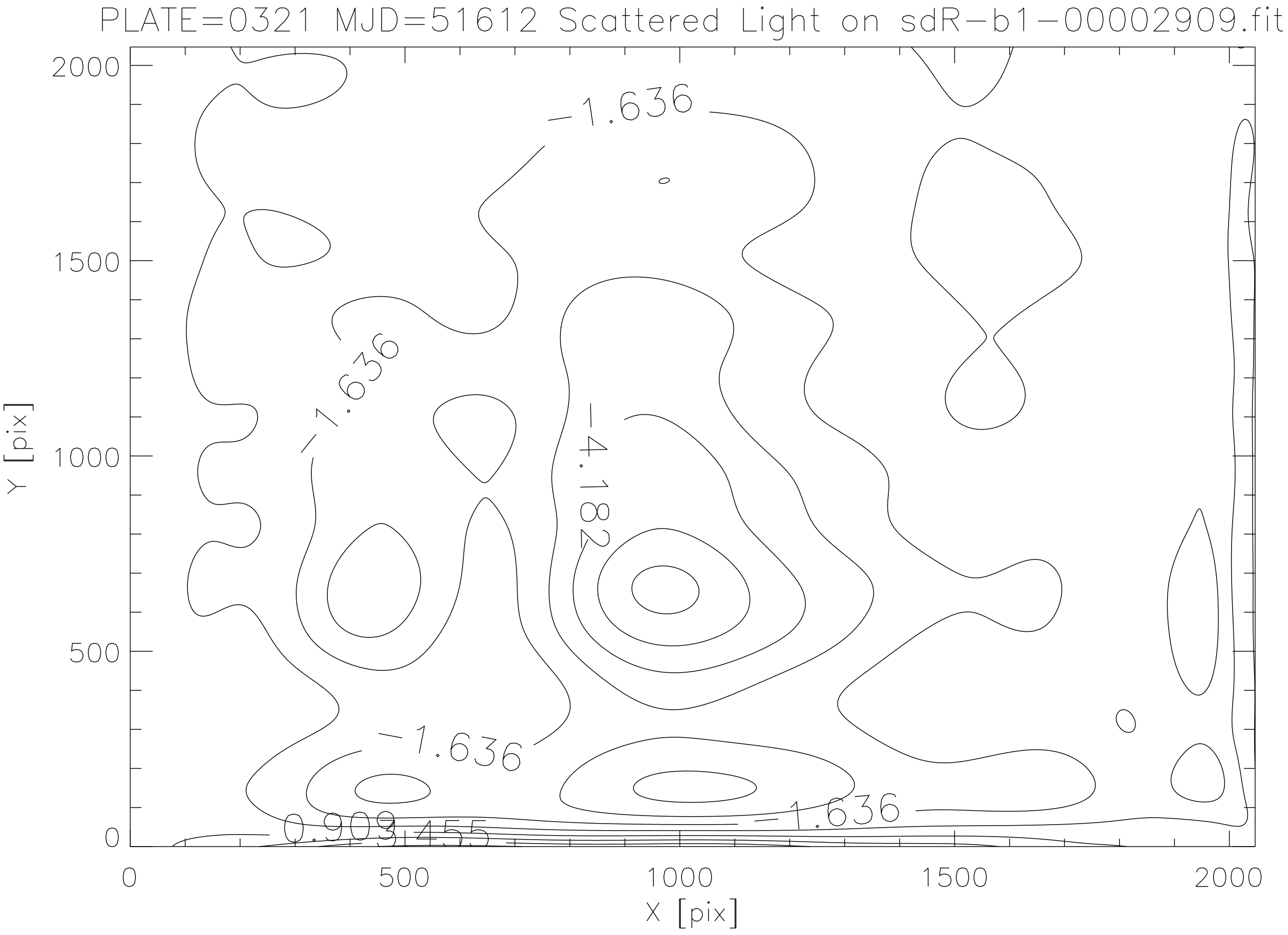

PLATE=0321 MJD=51612 sdR-b1-00002908.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1600
1500
1400
1300
1200
1100
1000
900
RED = sky fiber
Dispersion = 3.10 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1.070
1.075
1.080
1.085
1.090
Airmass



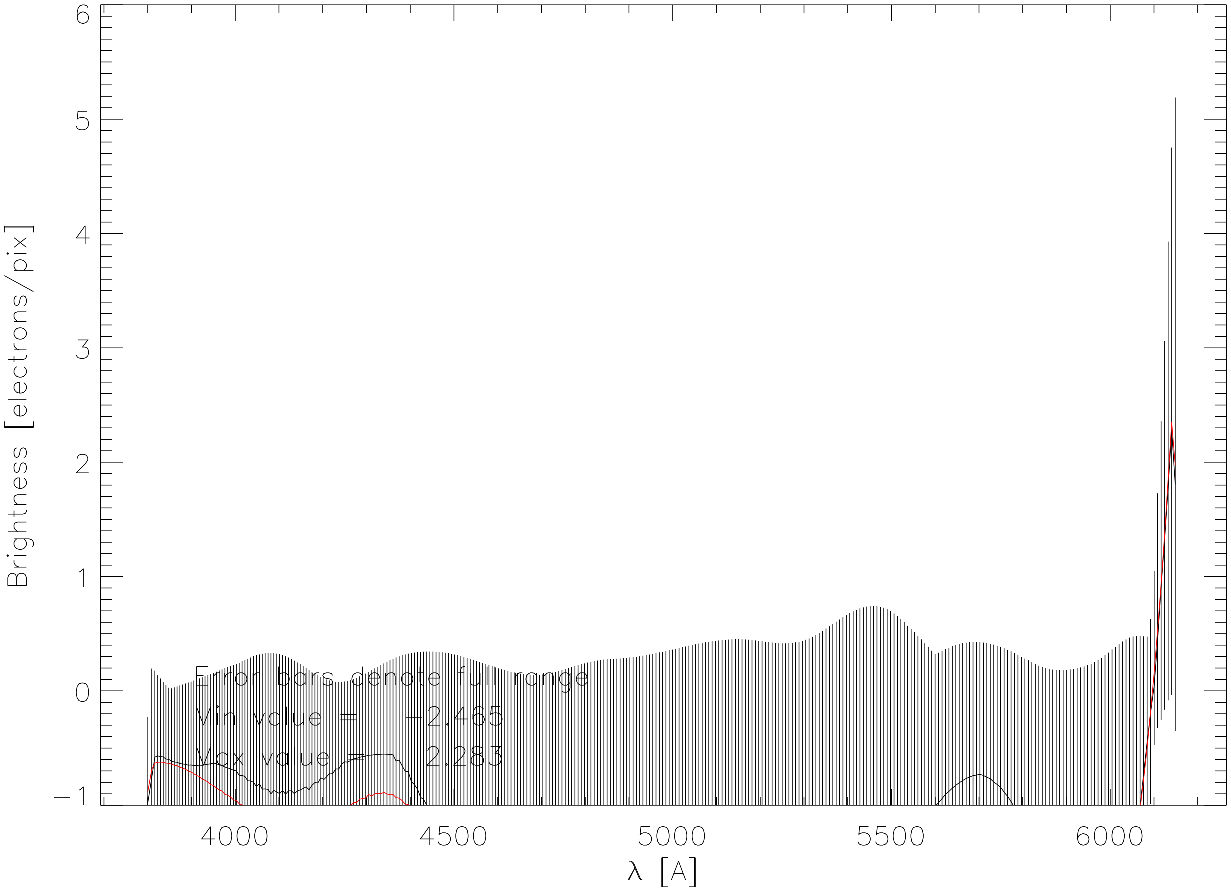
Mon Jul 21 14:20:12 2008


PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002909.f

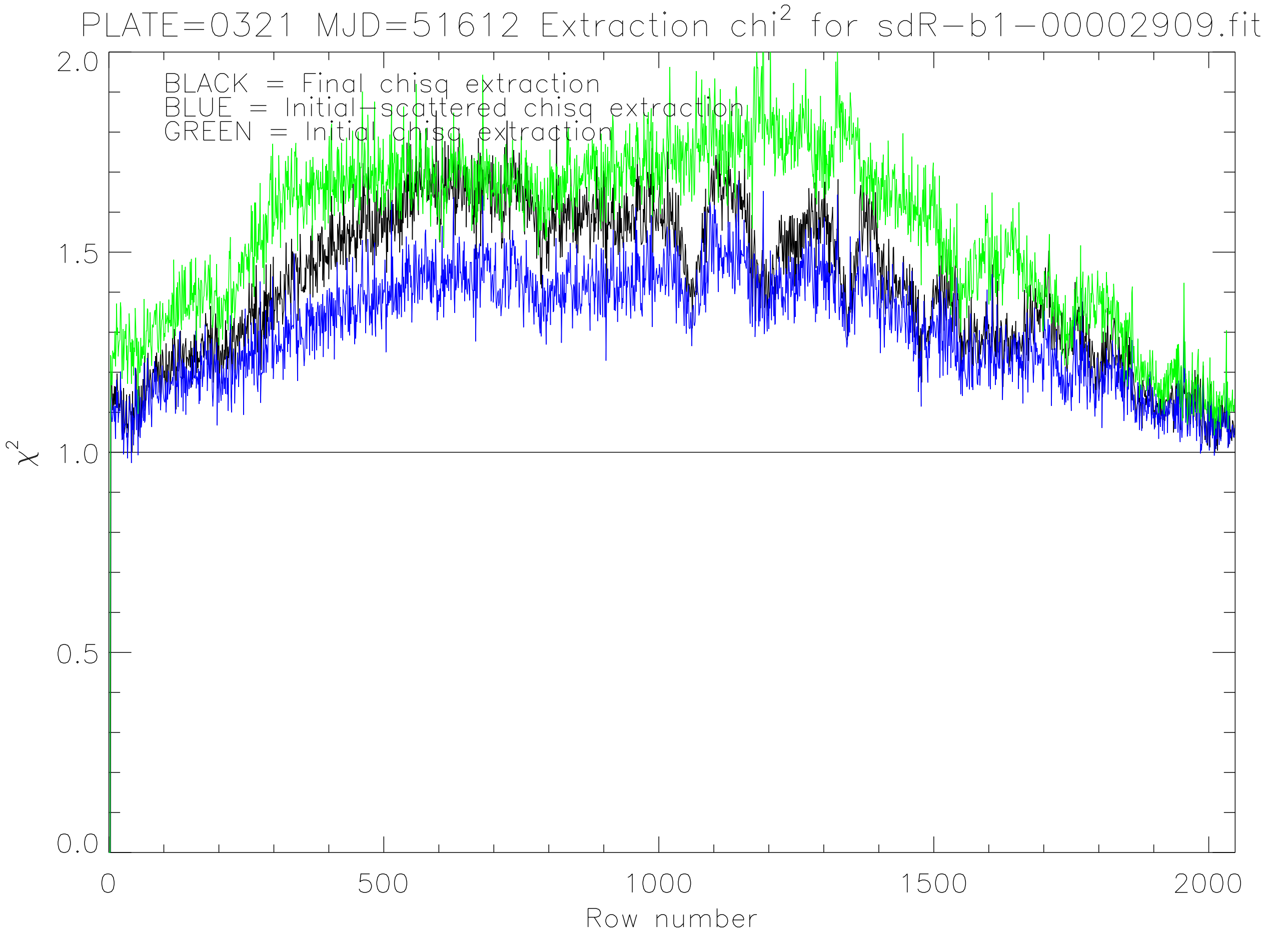

PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002909.f
Brightness [electrons/pix]
15
10
5
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 1.959
Max value = 7.789
Mon Jul 21 14:21:00 2008

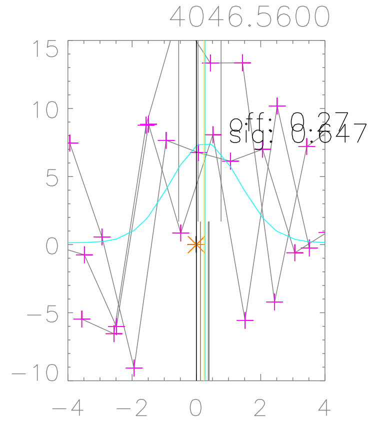

PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002909.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0
500
1000
1500
2000
-1.636
-1.636
-4.182
-1.636
-1.636
0.909
3.455

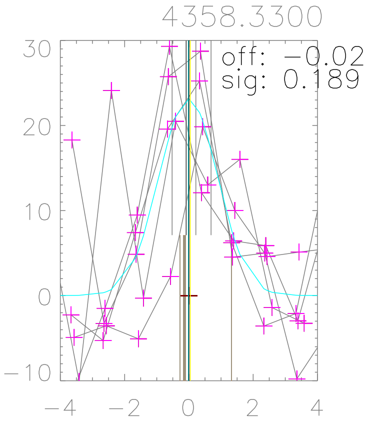
PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002909.fit

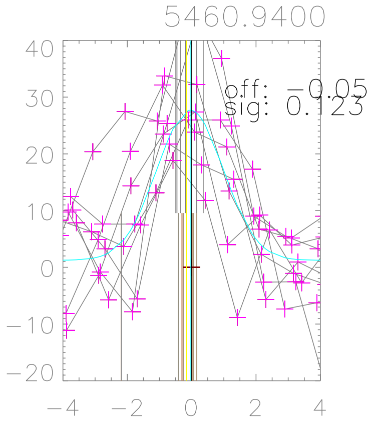


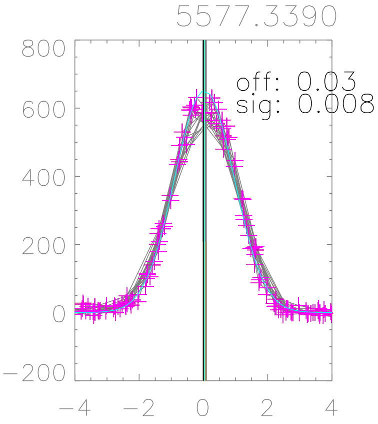
Mon Jul 21 14:24:01 2008

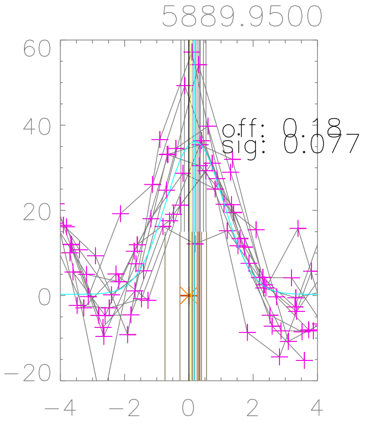

PLATE=0321 MJD=51612 Extraction chi^2 for sdR-b1-00002909.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

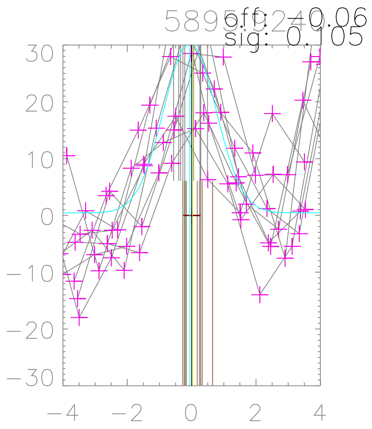

4046.5600
off: 0.27
sig: 0.647
15
10
5
0
−5
−10
−4
−2
0
2
4

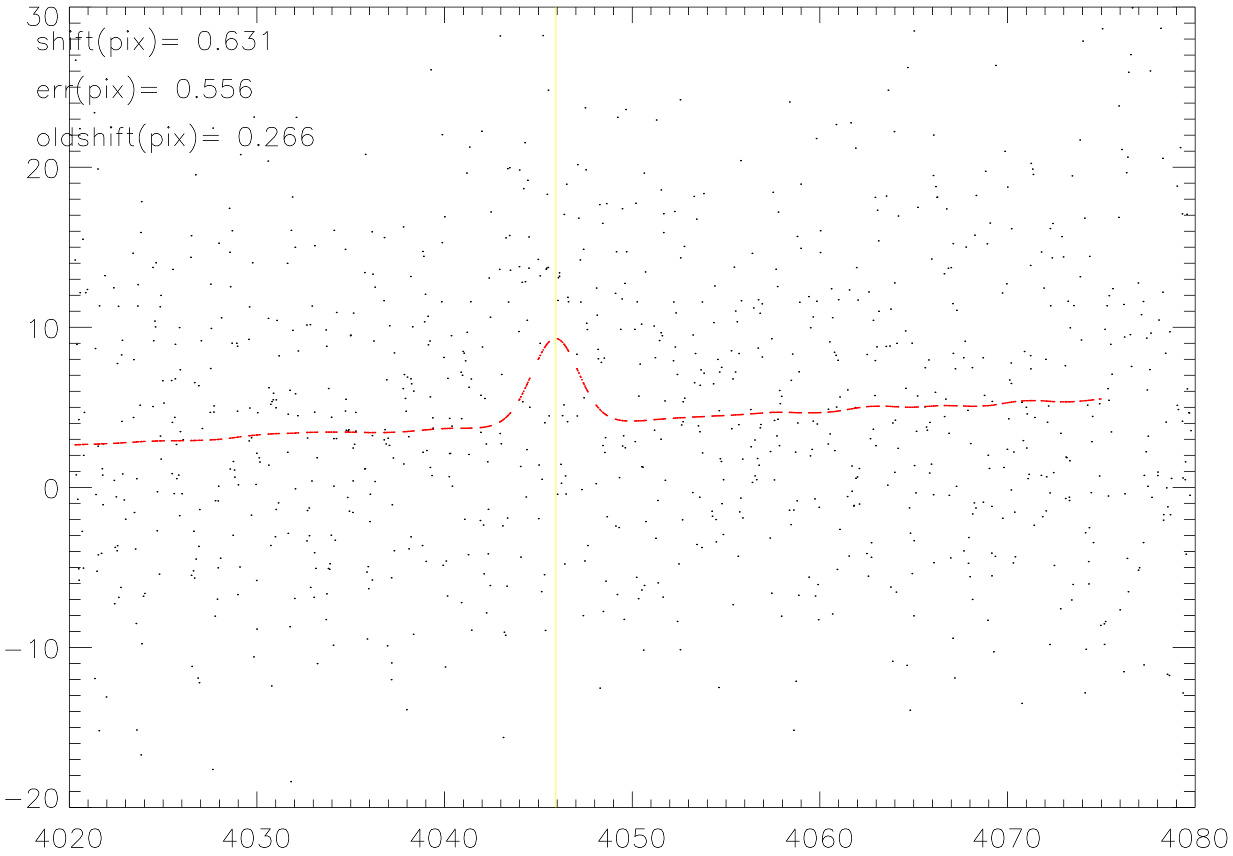

4358.3300
off: −0.02
sig: 0.189
30
20
10
0
−10
−4
−2
0
2
4

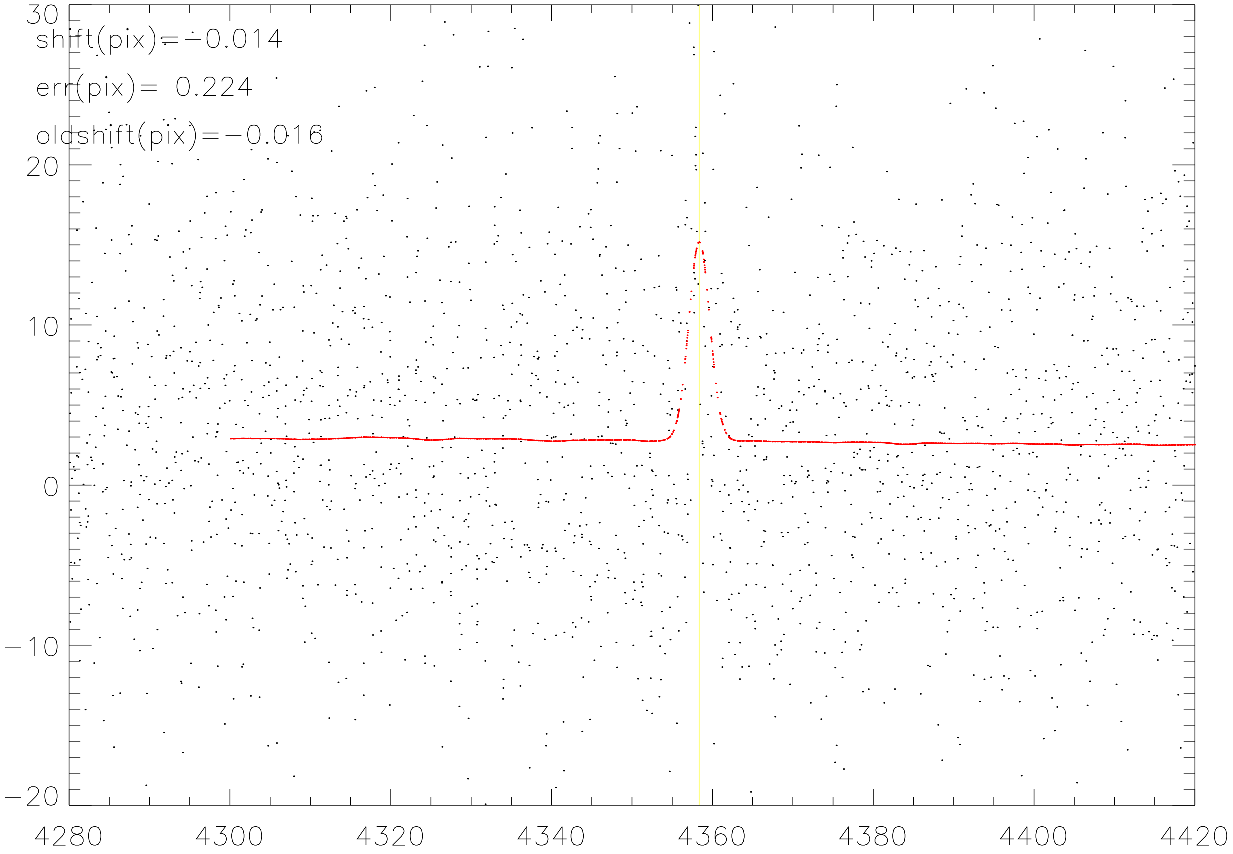

5460.9400
off: −0.05
sig: 0.123
40
30
20
10
0
−10
−20
−4
−2
0
2
4

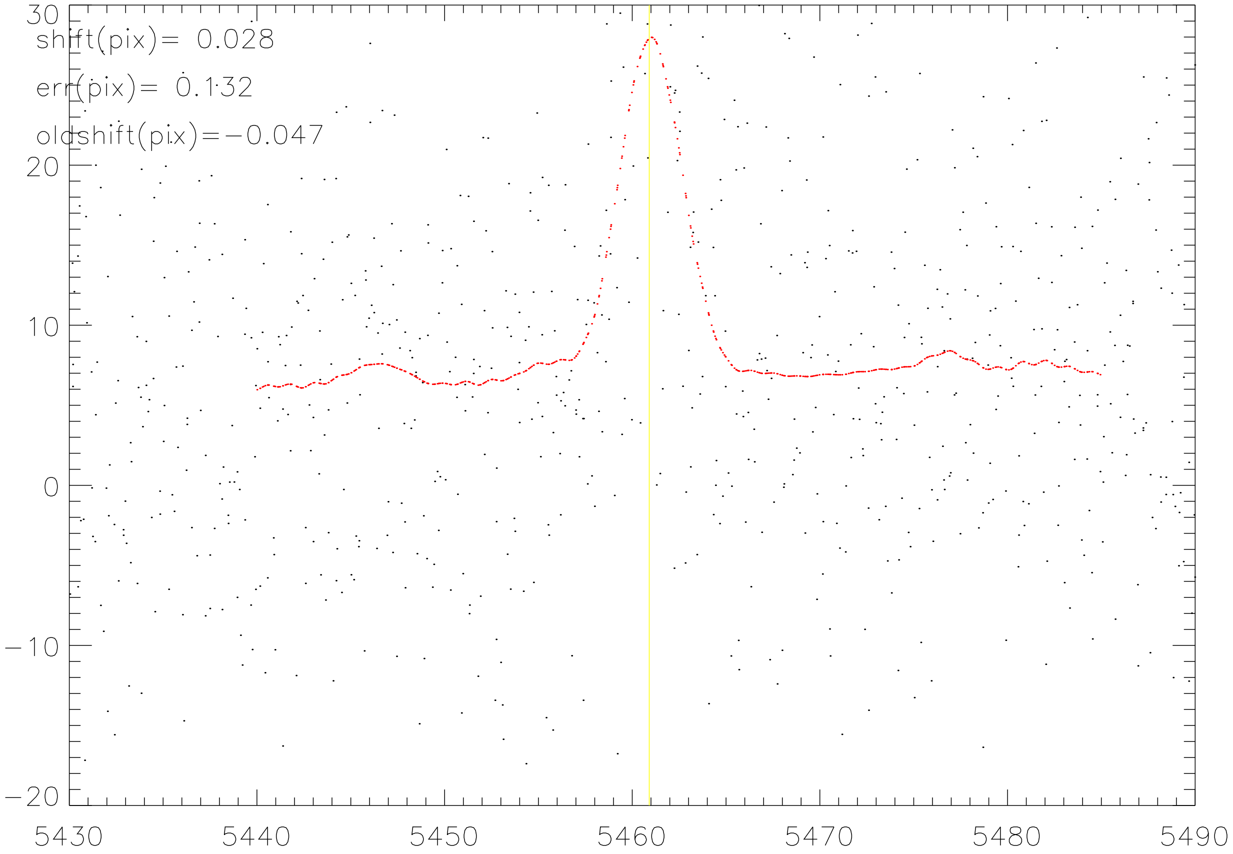

5577.3390
off: 0.03
sig: 0.008
800
600
400
200
0
−200
−4
−2
0
2
4

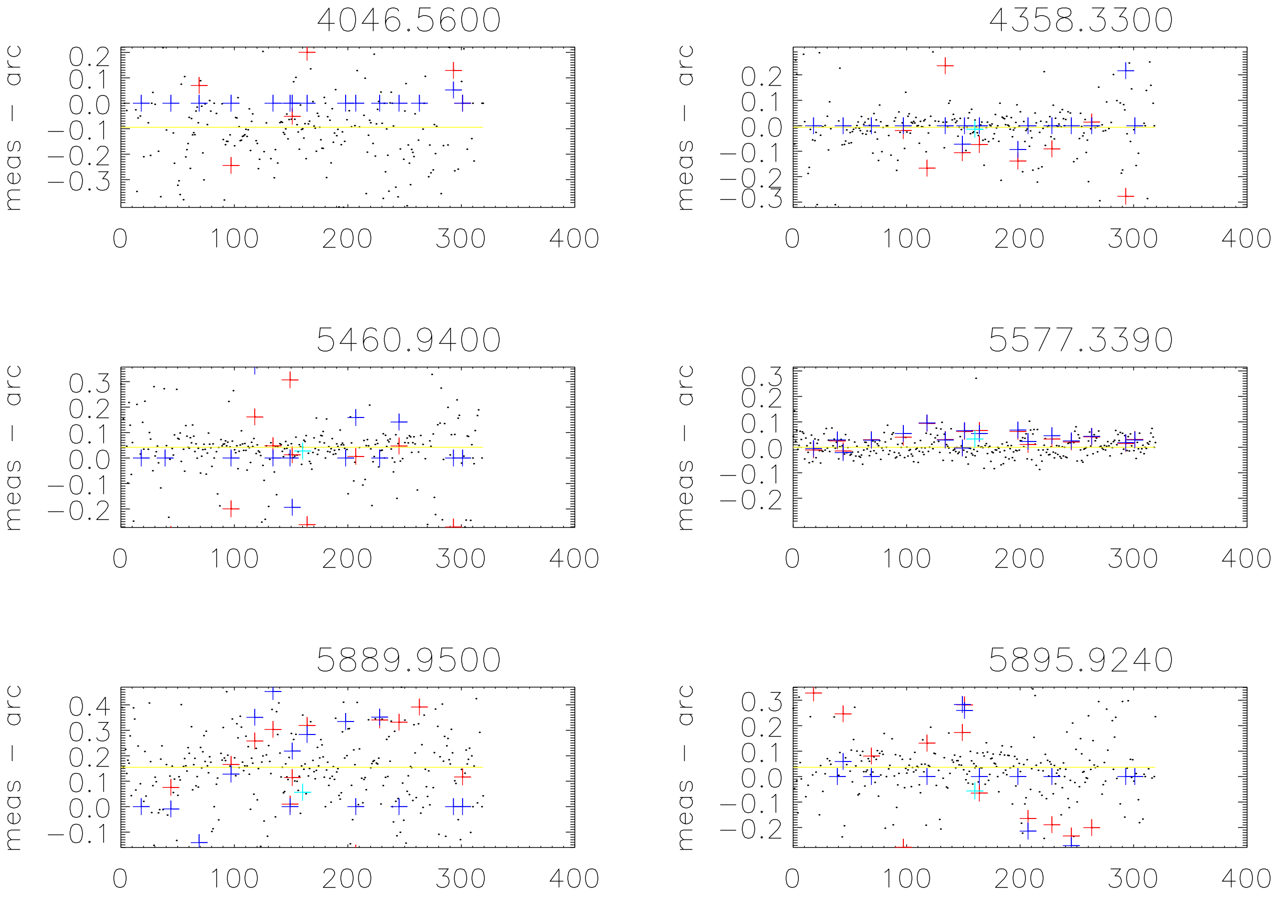

5889.9500
off: 0.18
sig: 0.077
60
40
20
0
−20
−4
−2
0
2
4

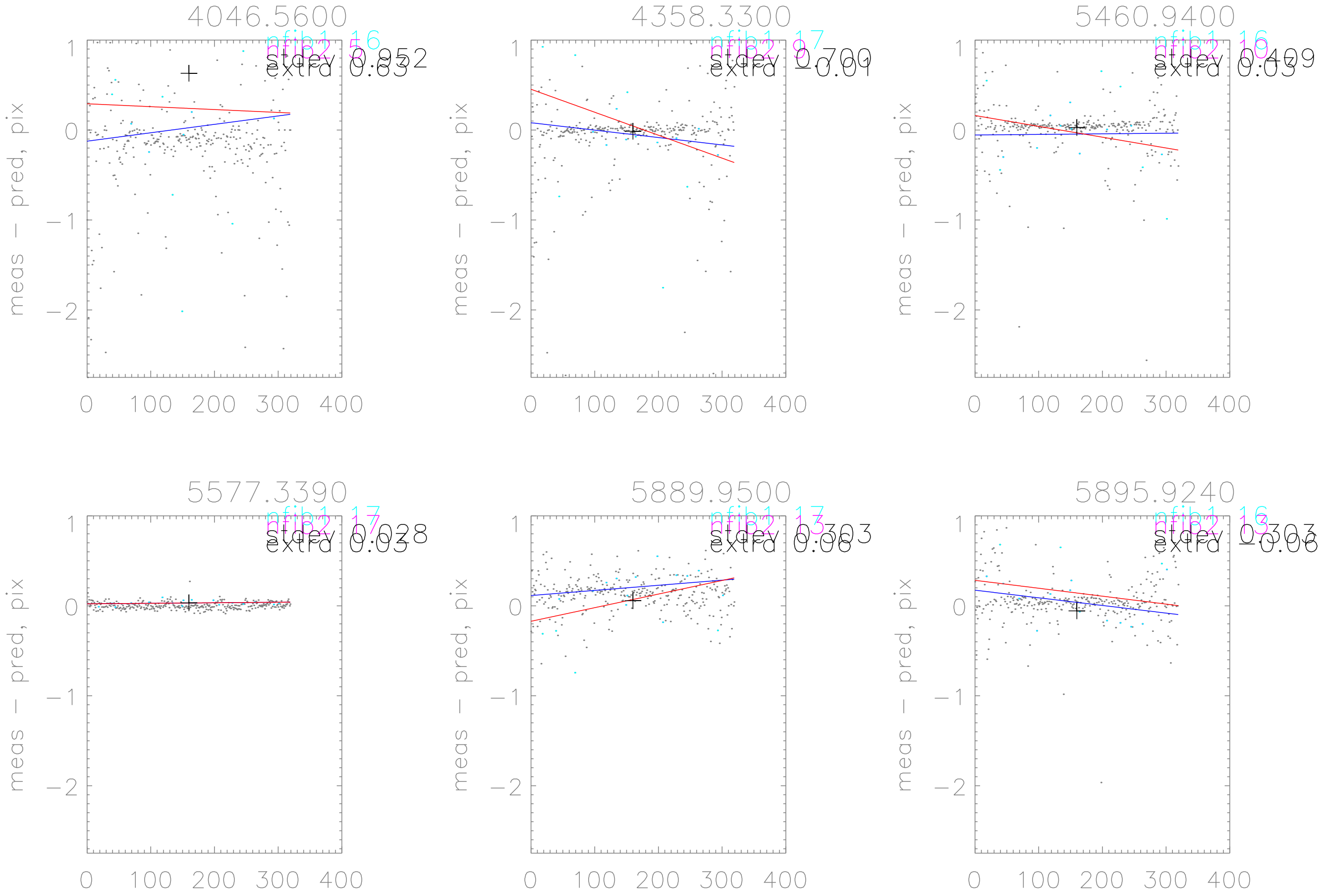

5895.9240
off: −0.06
sig: 0.105
30
20
10
0
−10
−20
−30
−4
−2
0
2
4

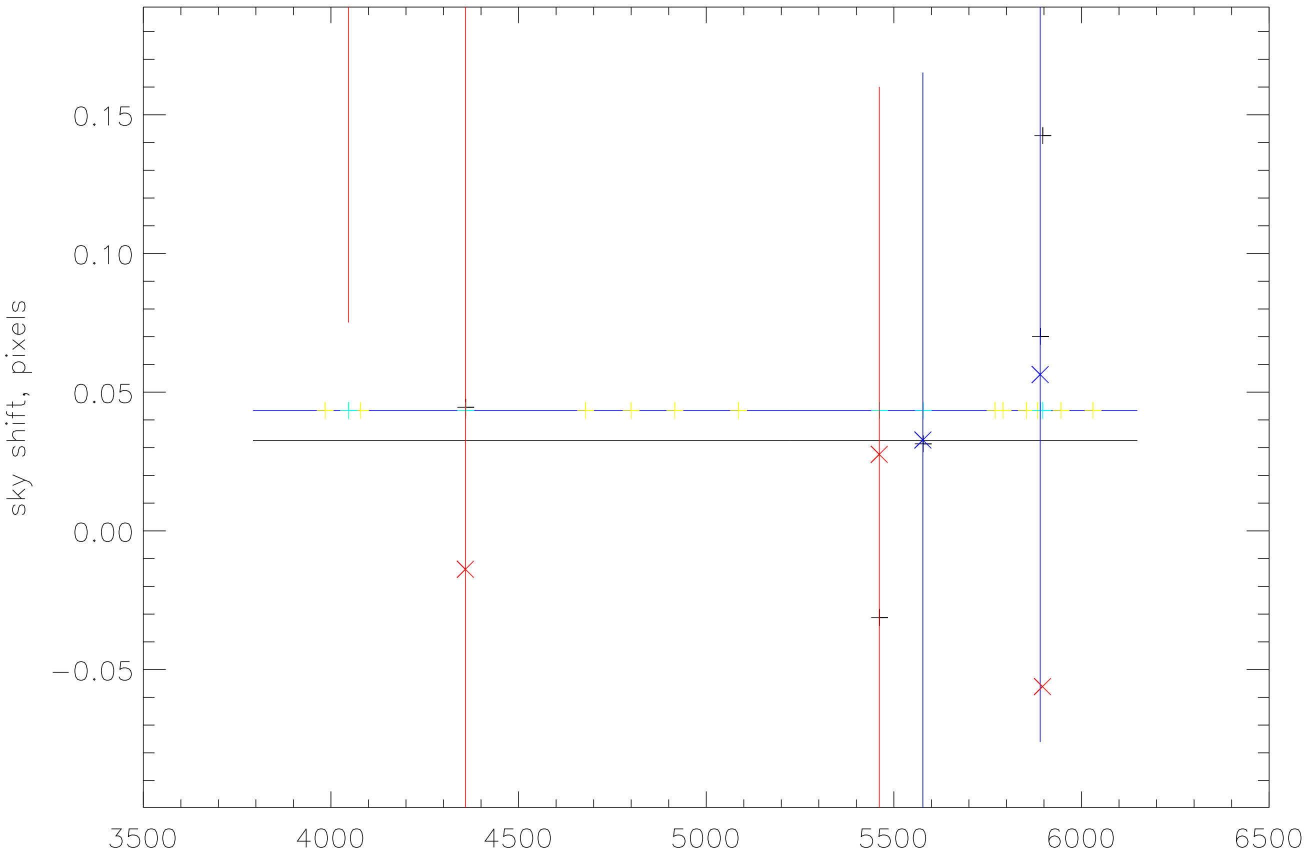

shift(pix)= 0.631
err(pix)= 0.556
oldshift(pix)= 0.266
30
20
10
0
−10
−20
4020
4030
4040
4050
4060
4070
4080

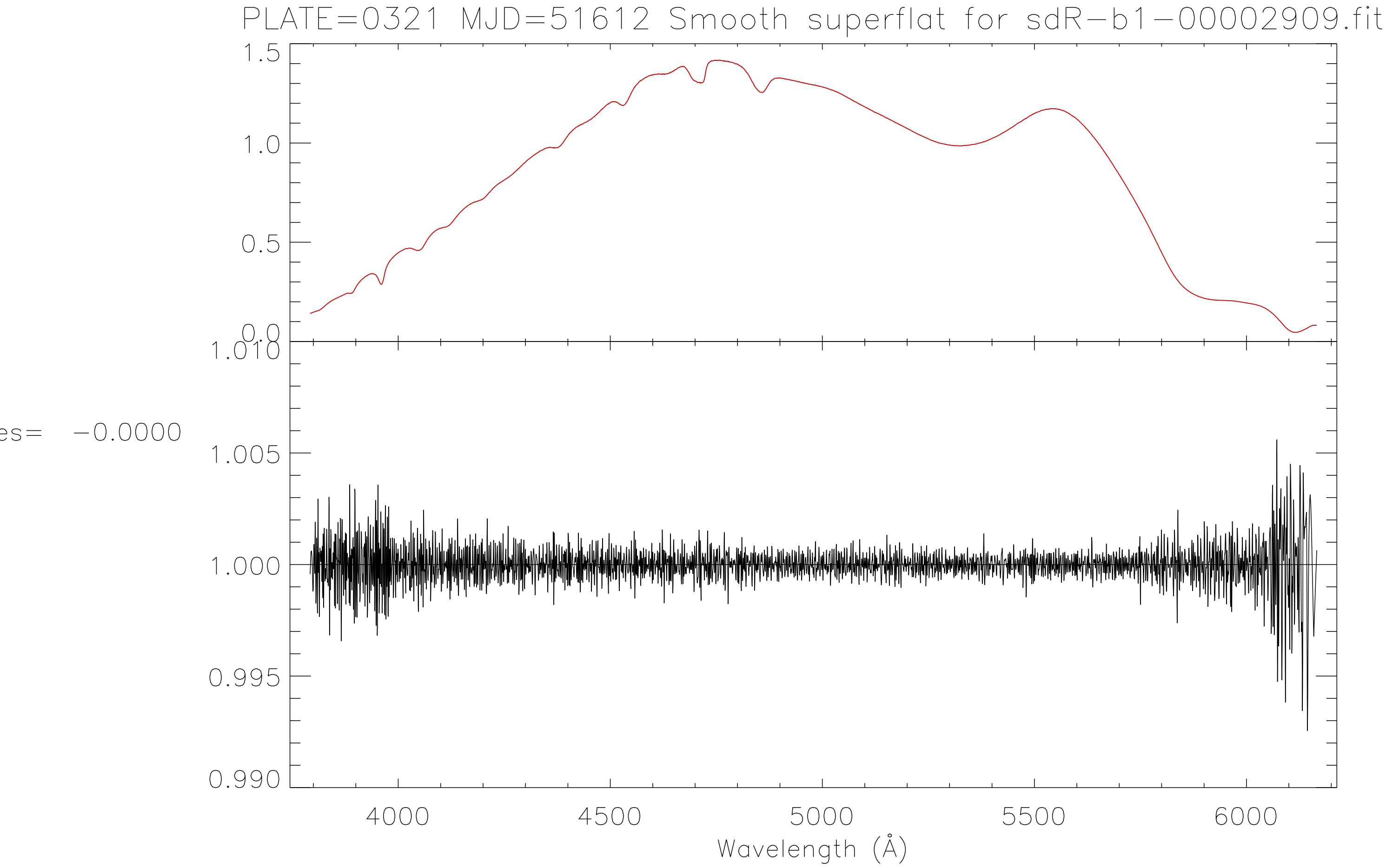

shift(pix)=−0.014
err(pix)= 0.224
oldshift(pix)=−0.016
30
20
10
0
−10
−20
4280
4300
4320
4340
4360
4380
4400
4420

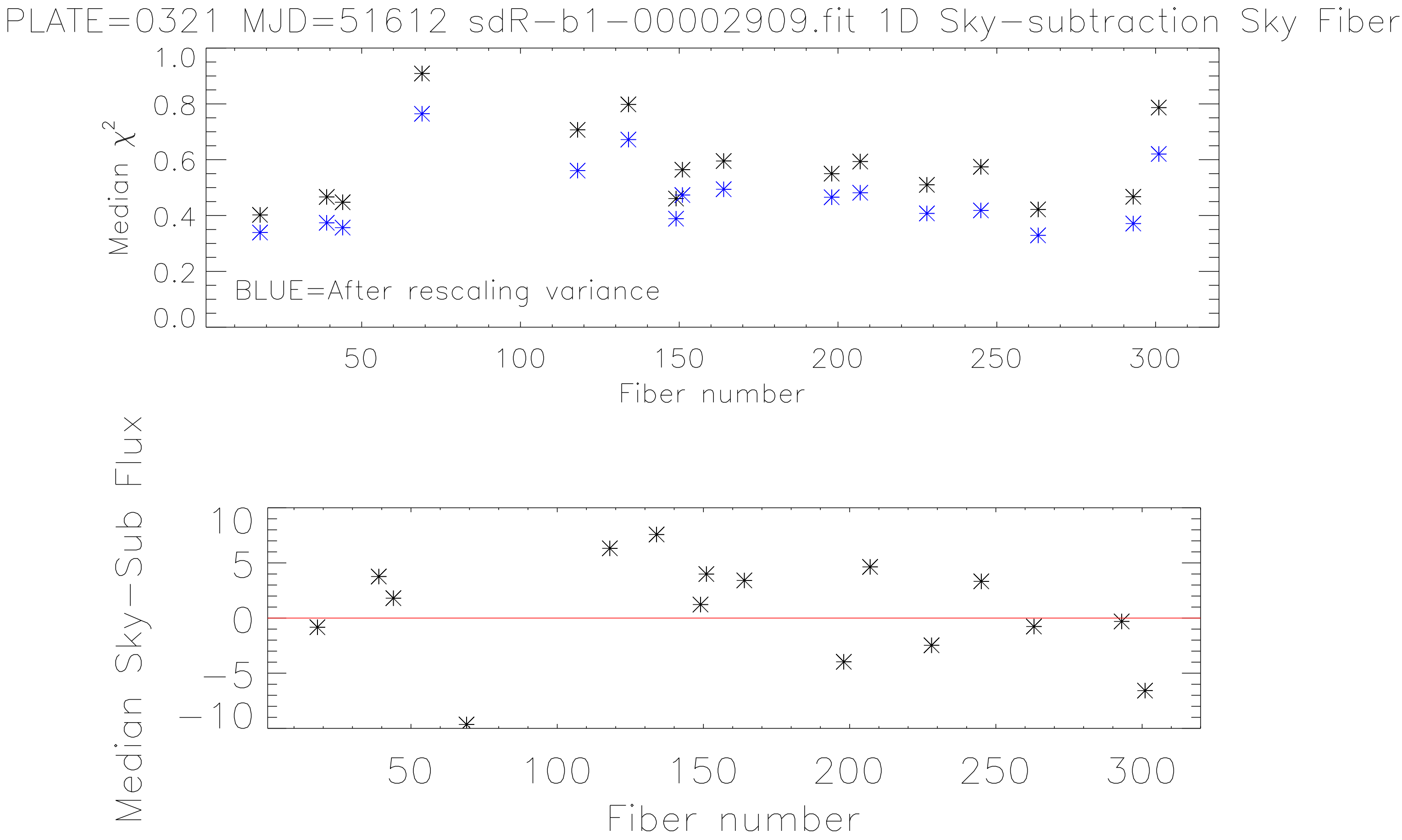

shift(pix)= 0.028
err(pix)= 0.132
oldshift(pix)=−0.047
30
20
10
0
−10
−20
5430
5440
5450
5460
5470
5480
5490


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
0.3
0.4
0
100
200
300
400

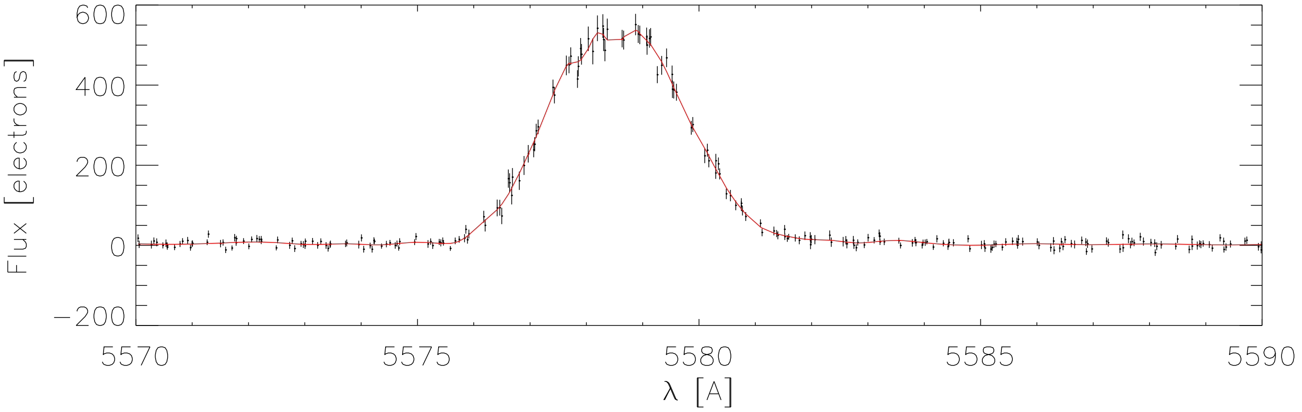

4046.5600
nfib1 16
nfib2 5
stdev 0.852
extrd 0.63
4358.3300
nfib1 17
nfib2 9
stdev 0.700
extrd −0.01
5460.9400
nfib1 16
nfib2 10
stdev 0.409
extrd 0.03
5577.3390
nfib1 17
nfib2 17
stdev 0.028
extrd 0.03
5889.9500
nfib1 13
nfib2 13
stdev 0.303
extrd 0.06
5895.9240
nfib1 16
nfib2 13
stdev 0.303
extrd −0.06
meas − pred, pix
1
0
−1
−2
0
100
200
300
400


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

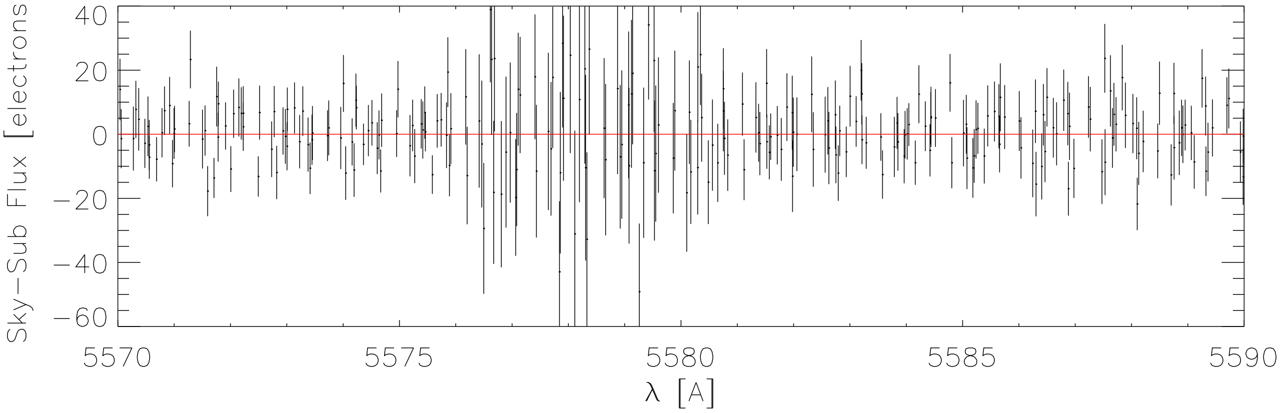

PLATE=0321 MJD=51612 Smooth superflat for sdR-b1-00002909.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

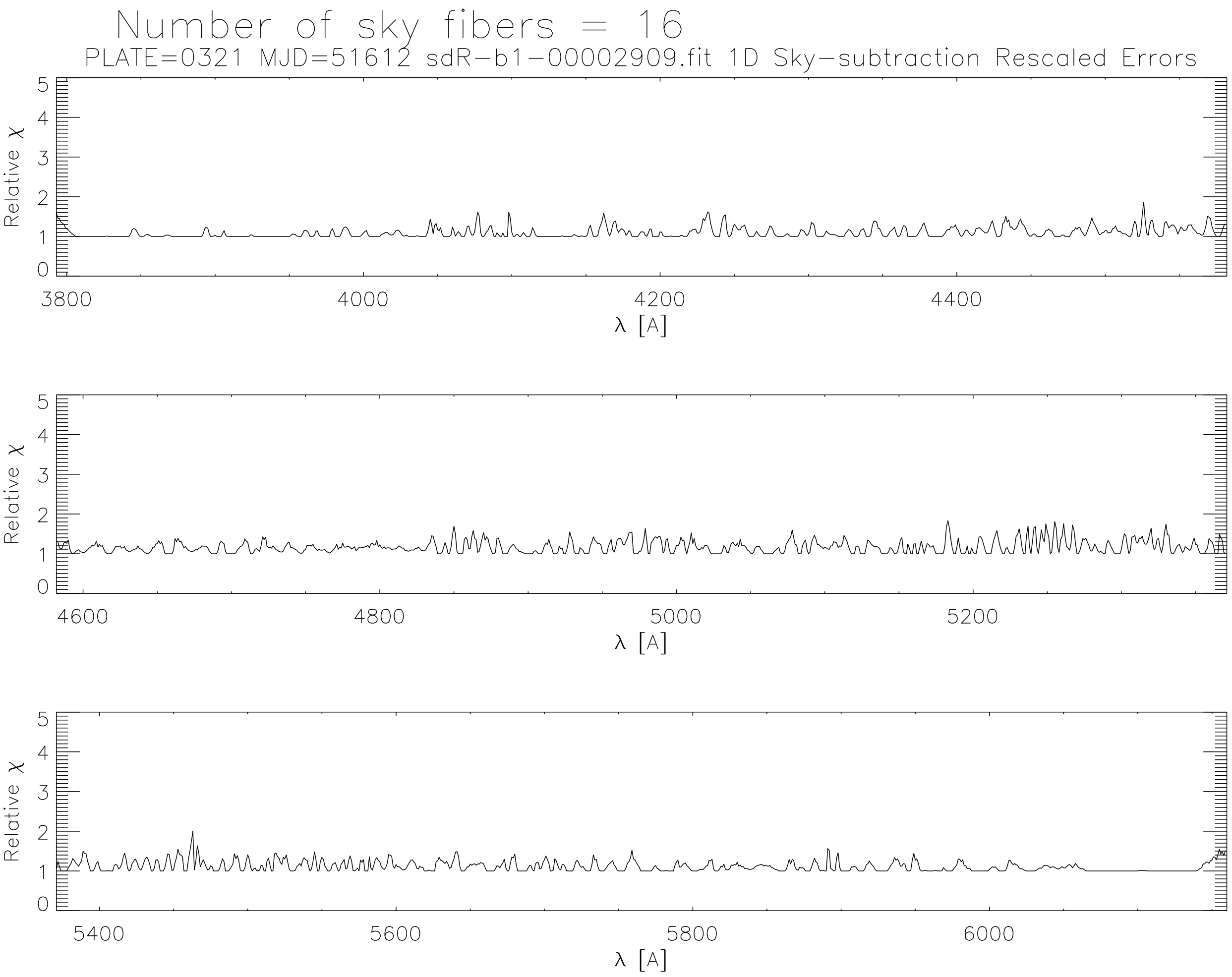

PLATE=0321 MJD=51612 sdR-b1-00002909.fit 1D Sky-subtraction Sky Fiber
Median χ^2
1.0
0.8
0.6
0.4
0.2
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
−5
−10
50
100
150
200
250
300
Fiber number

PLATE=0321 MJD=51612 sdR-b1-00002909.fit 1D Sky-subtraction Sky Fibers

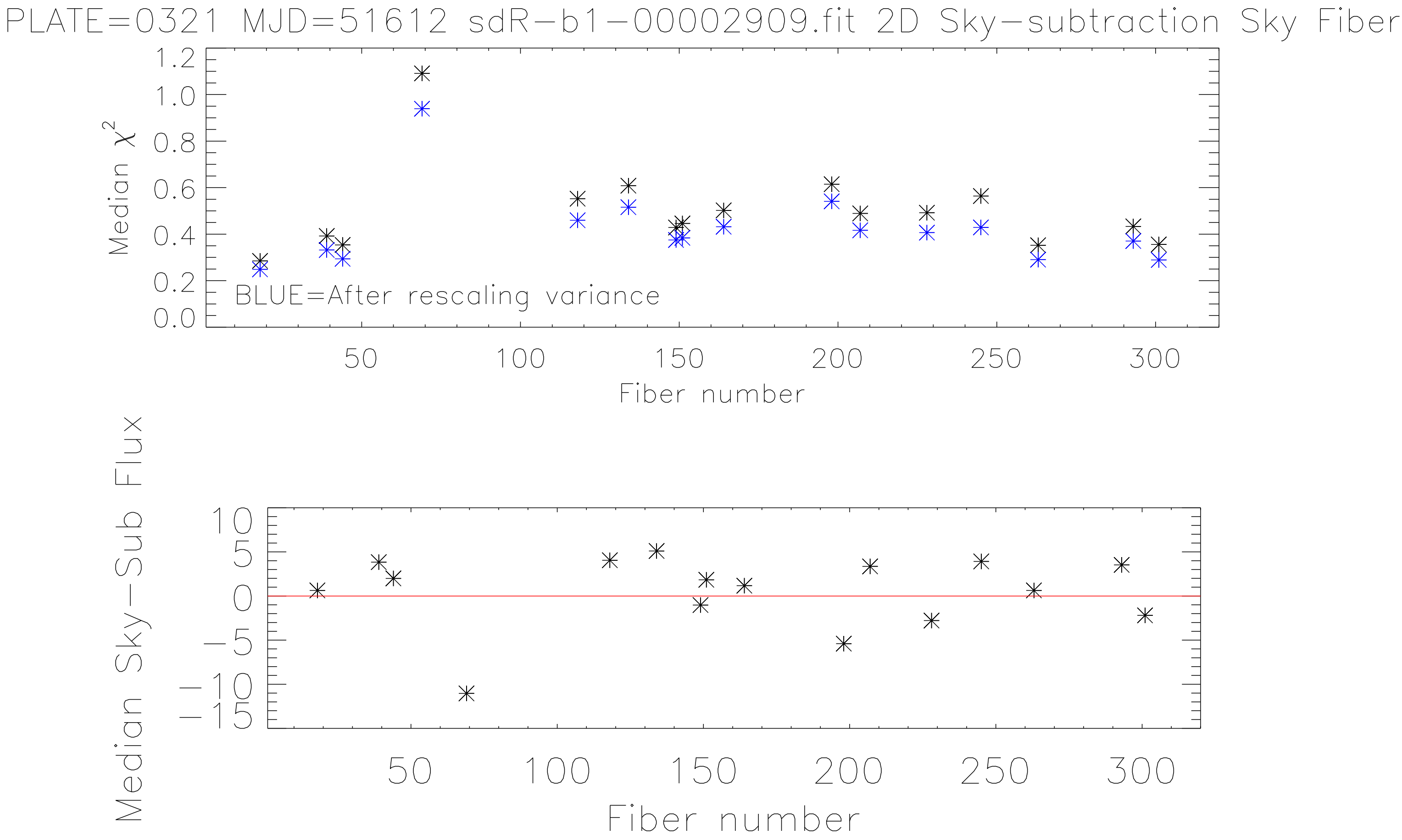


PLATE=0321 MJD=51612 sdR-b1-00002909.fit 1D Sky-subtraction Sky-subtracted Sky F

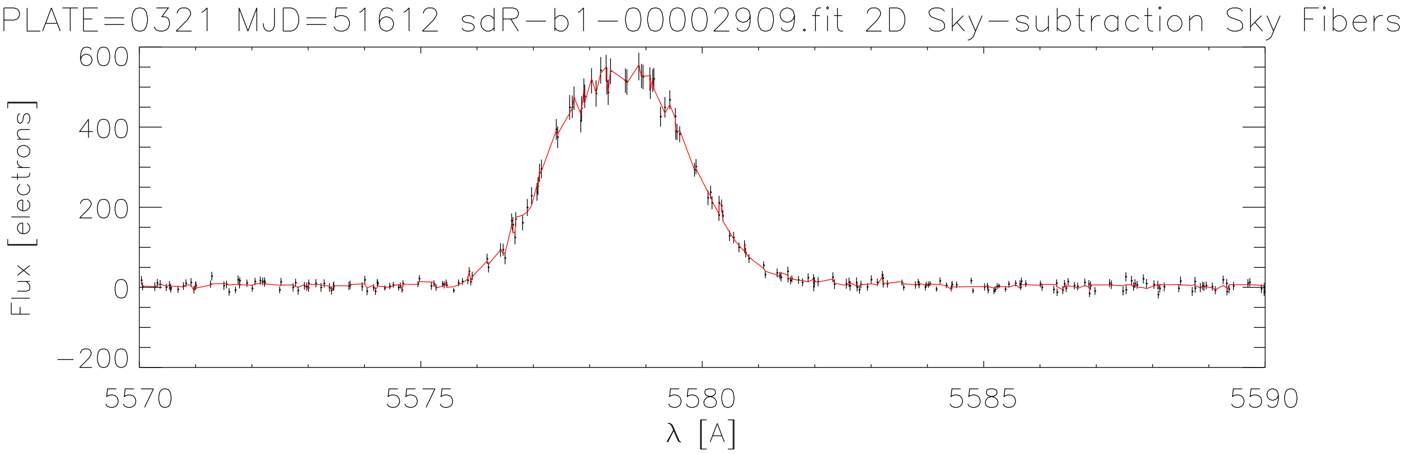


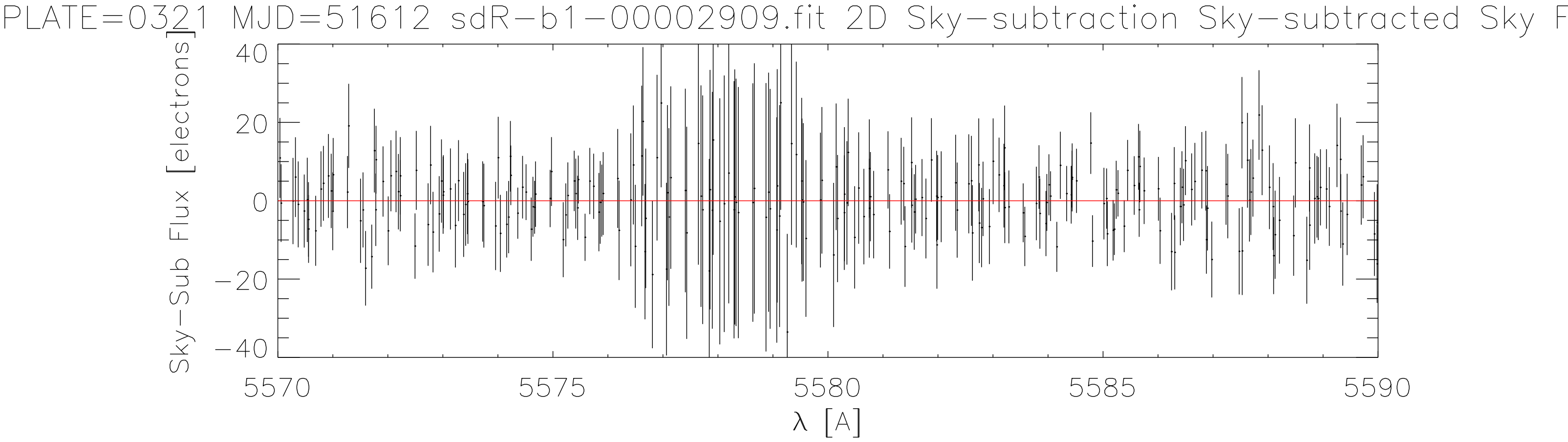

Number of sky fibers = 16

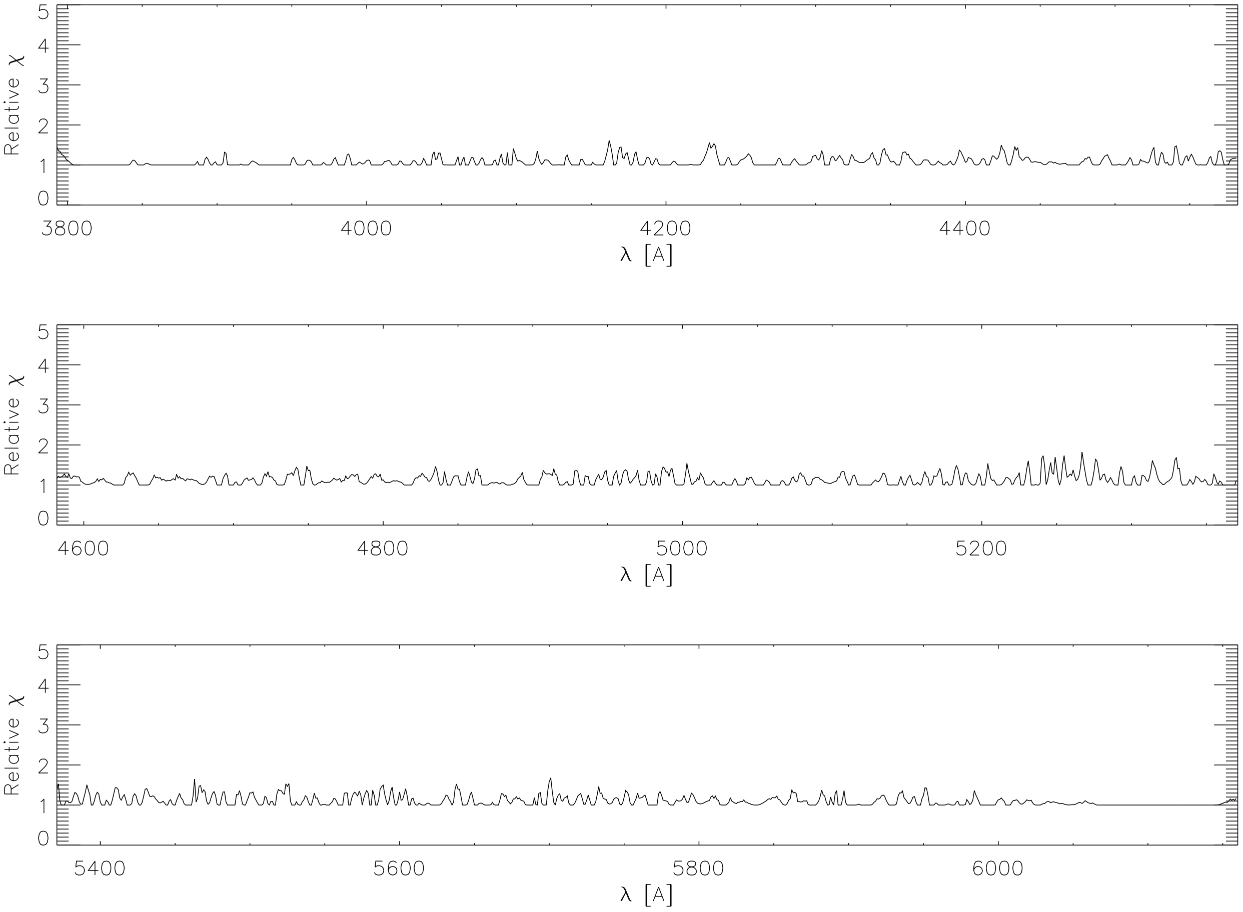
PLATE=0321 MJD=51612 sdR-b1-00002909.fit 1D Sky-subtraction Rescaled Errors



PLATE=0321 MJD=51612 sdR-b1-00002909.fit 2D Sky-subtraction Sky Fiber

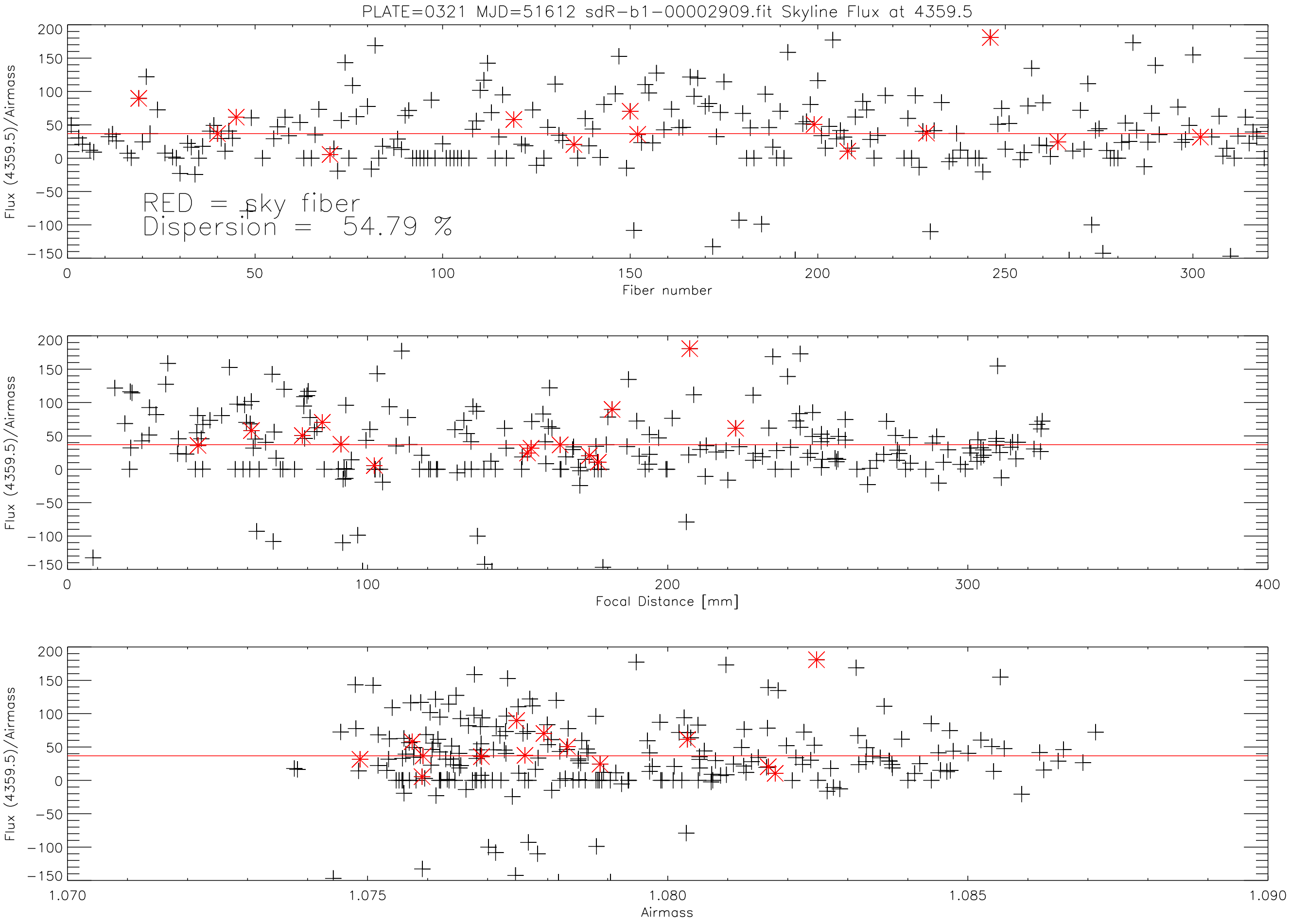

PLATE=0321 MJD=51612 sdR-b1-00002909.fit 2D Sky-subtraction Sky Fibers

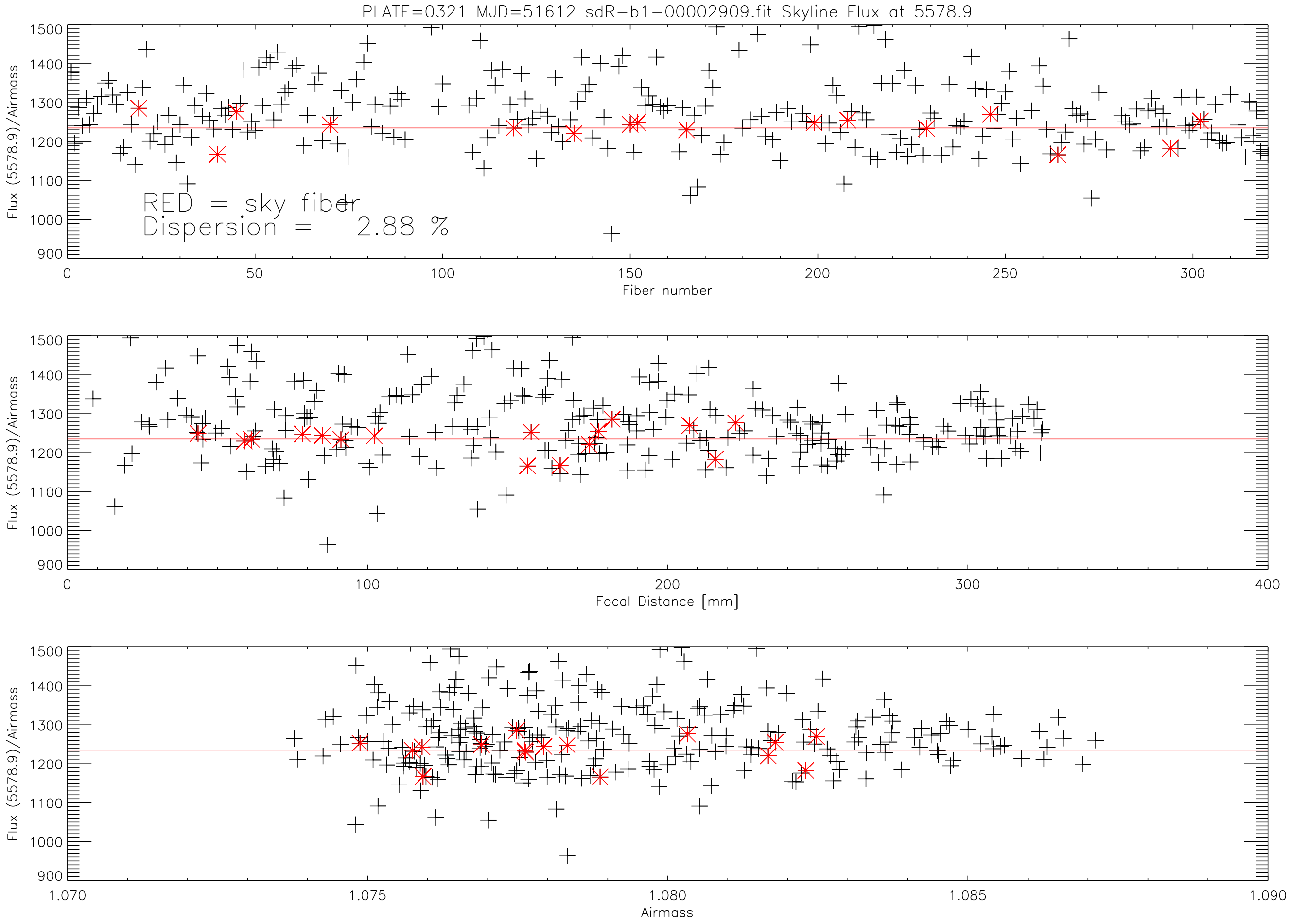

PLATE=0321 MJD=51612 sdR-b1-00002909.fit 2D Sky-subtraction Sky-subtracted Sky F

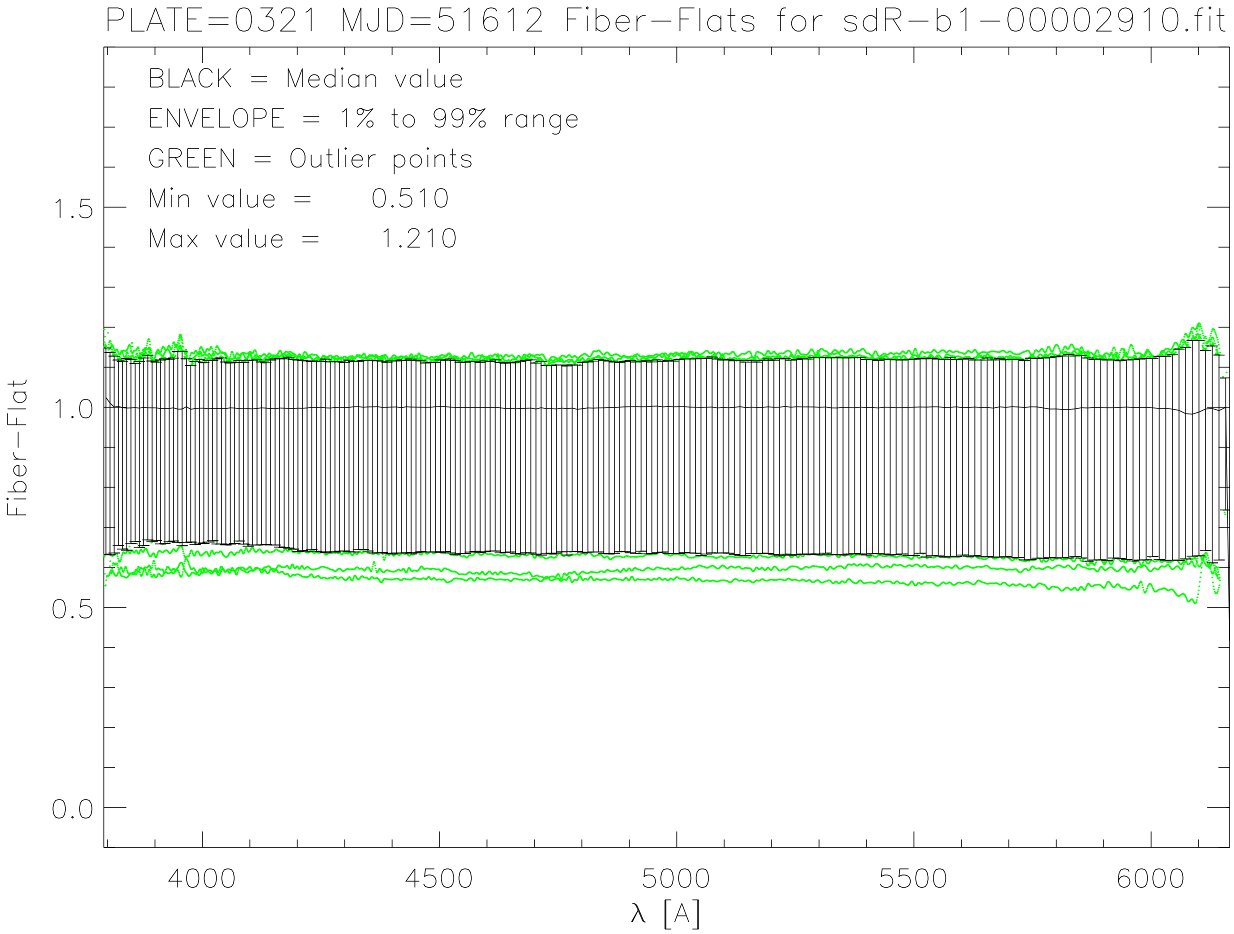


Number of sky fibers = 16

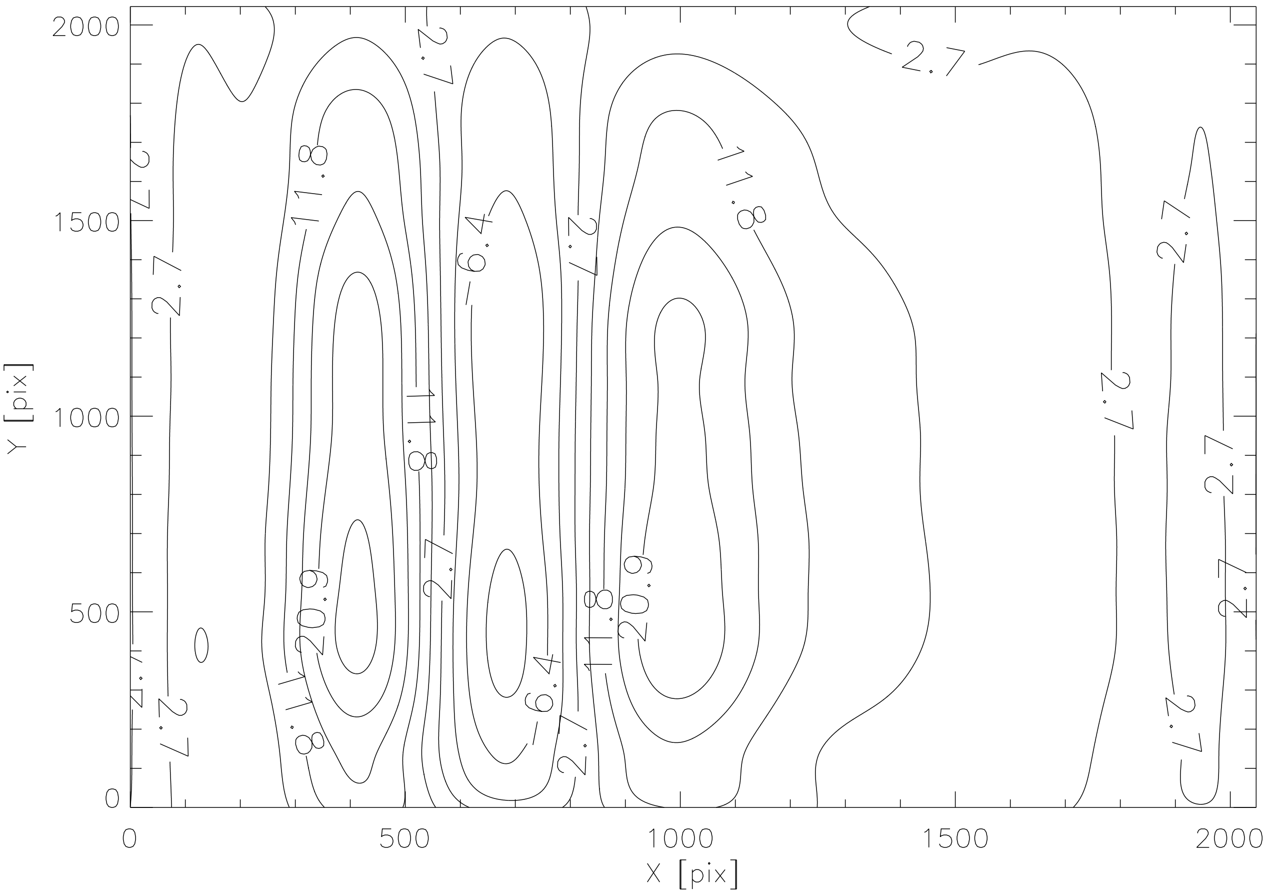
PLATE=0321 MJD=51612 sdR-b1-00002909.fit 2D Sky-subtraction Rescaled Errors


PLATE=0321 MJD=51612 sdR-b1-00002909.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
200
150
100
50
0
−50
−100
−150
RED = sky fiber
Dispersion = 54.79 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
1.070
1.075
1.080
1.085
1.090
Airmass

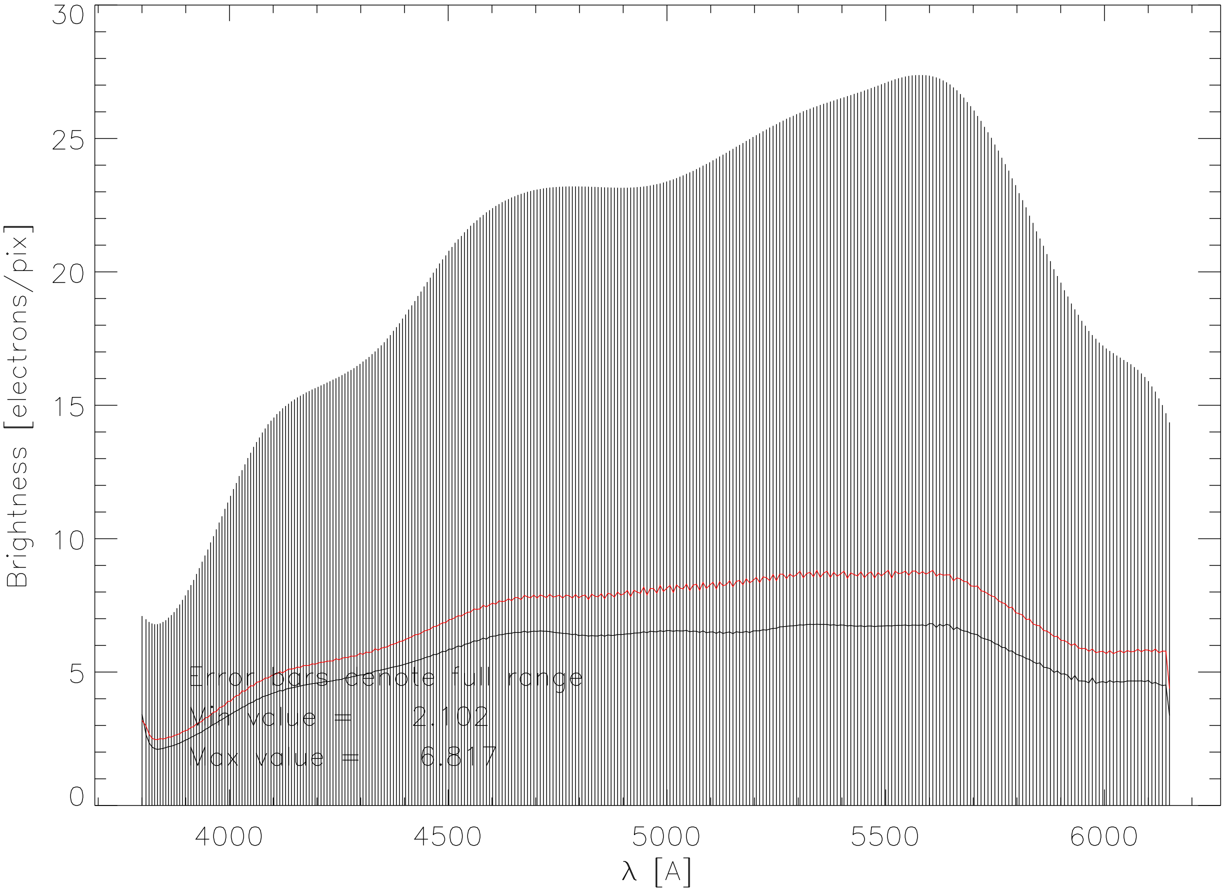

PLATE=0321 MJD=51612 sdR-b1-00002909.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1500
1400
1300
1200
1100
1000
900
RED = sky fiber
Dispersion = 2.88 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
1500
1400
1300
1200
1100
1000
900
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
1500
1400
1300
1200
1100
1000
900
1.070
1.075
1.080
1.085
1.090
Airmass



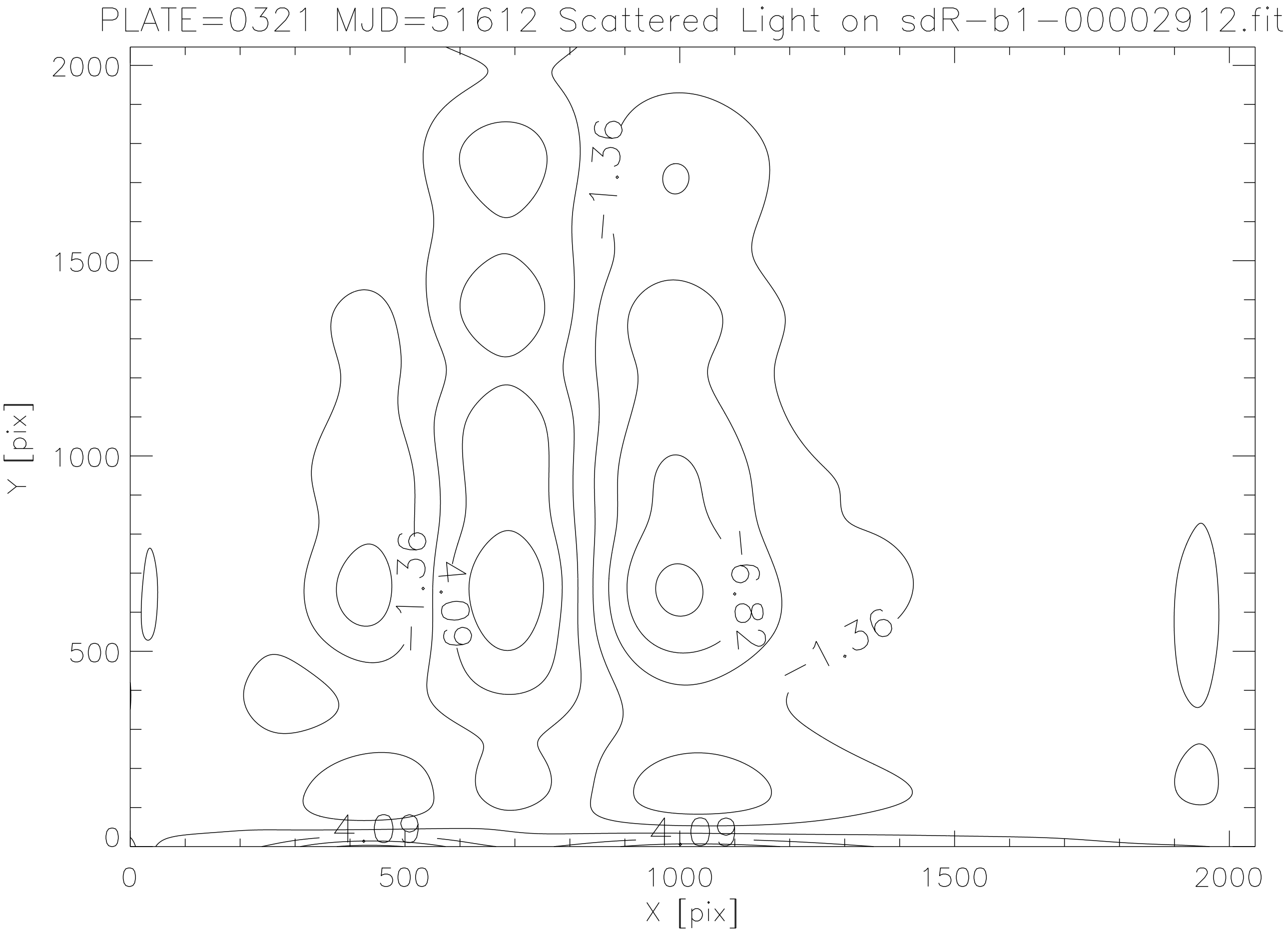
Mon Jul 21 14:25:50 2008


PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002912.f

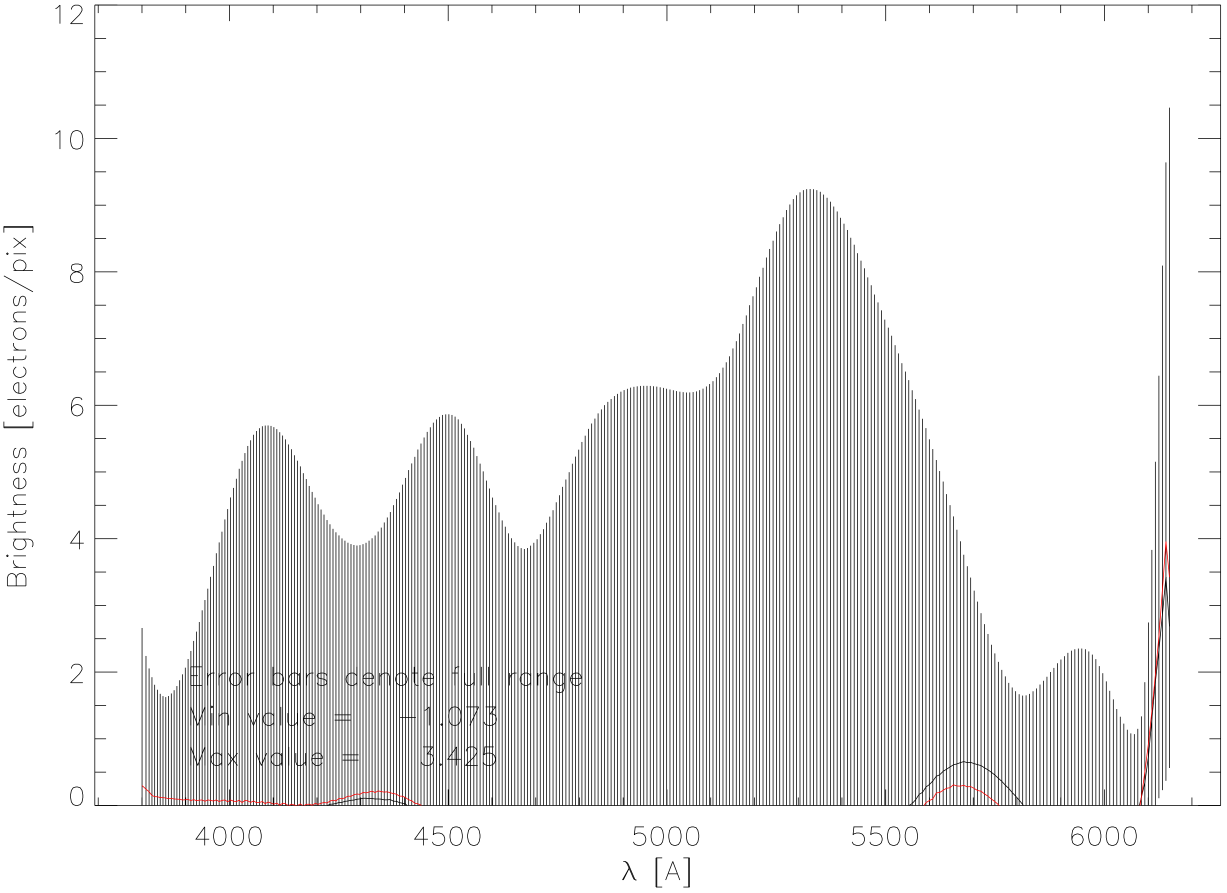
PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002912.f



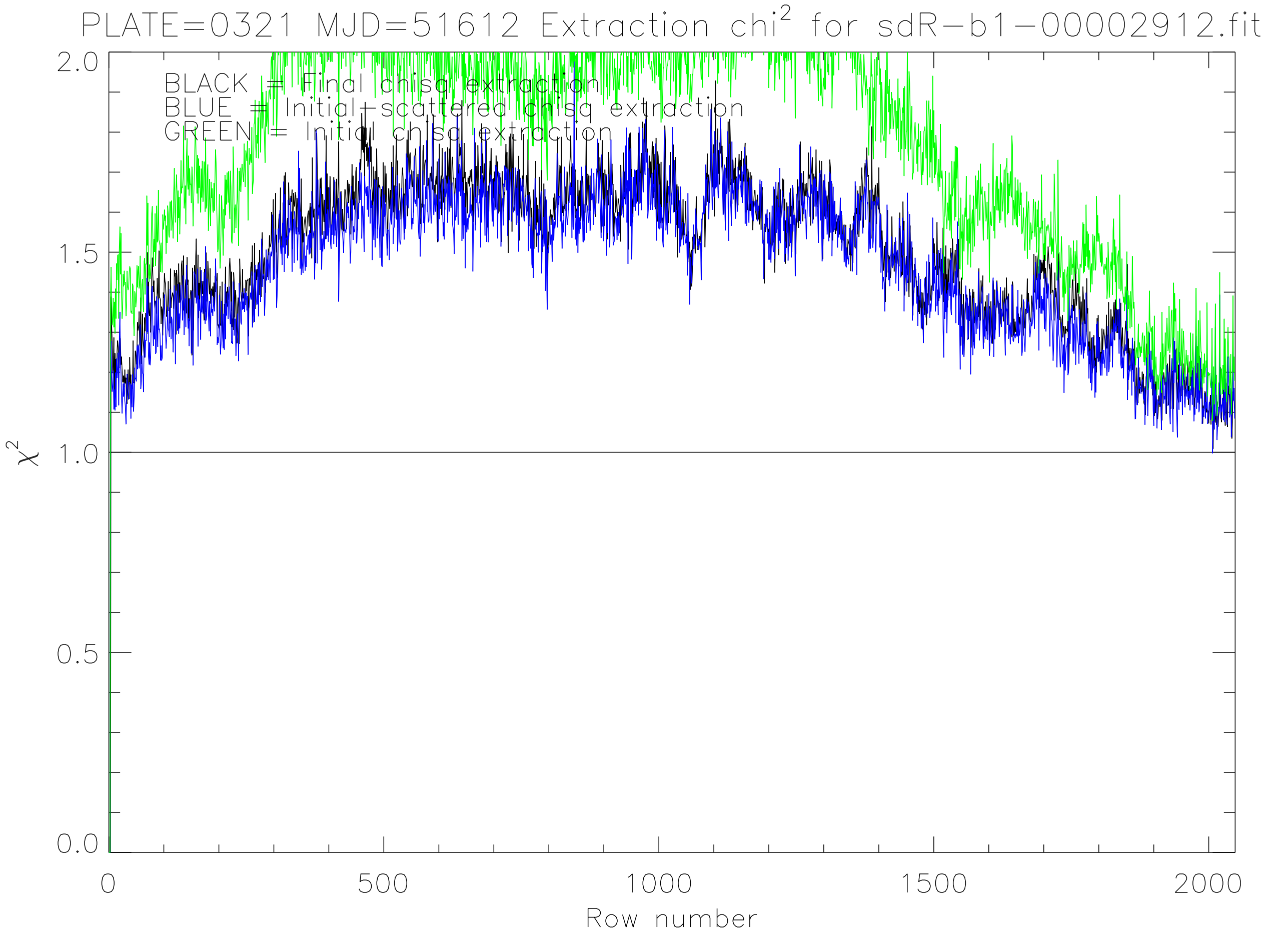
Mon Jul 21 14:26:47 2008

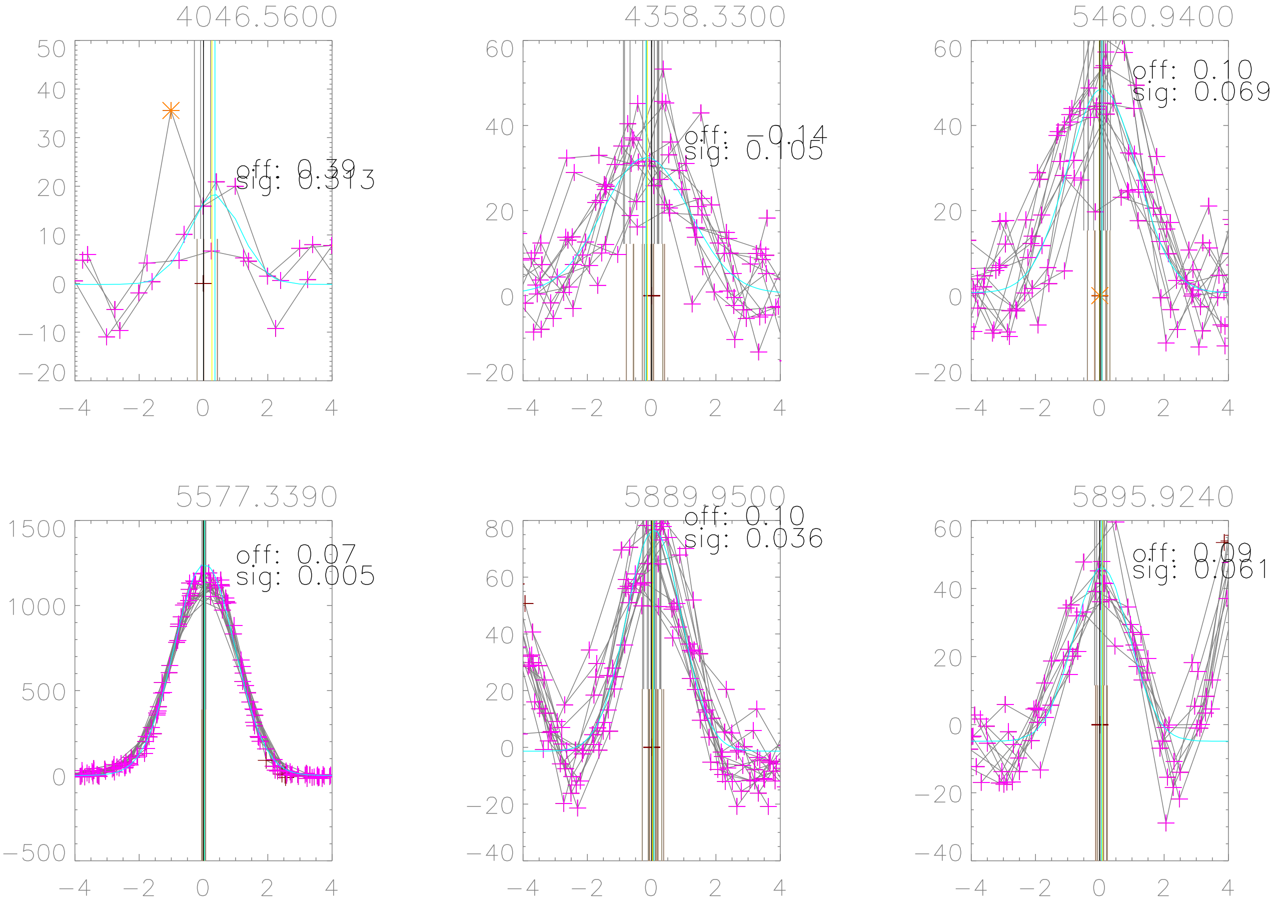

PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002912.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0
500
1000
1500
2000
-1.36
-1.36
4.09
-6.82
-1.36
4.09
4.09

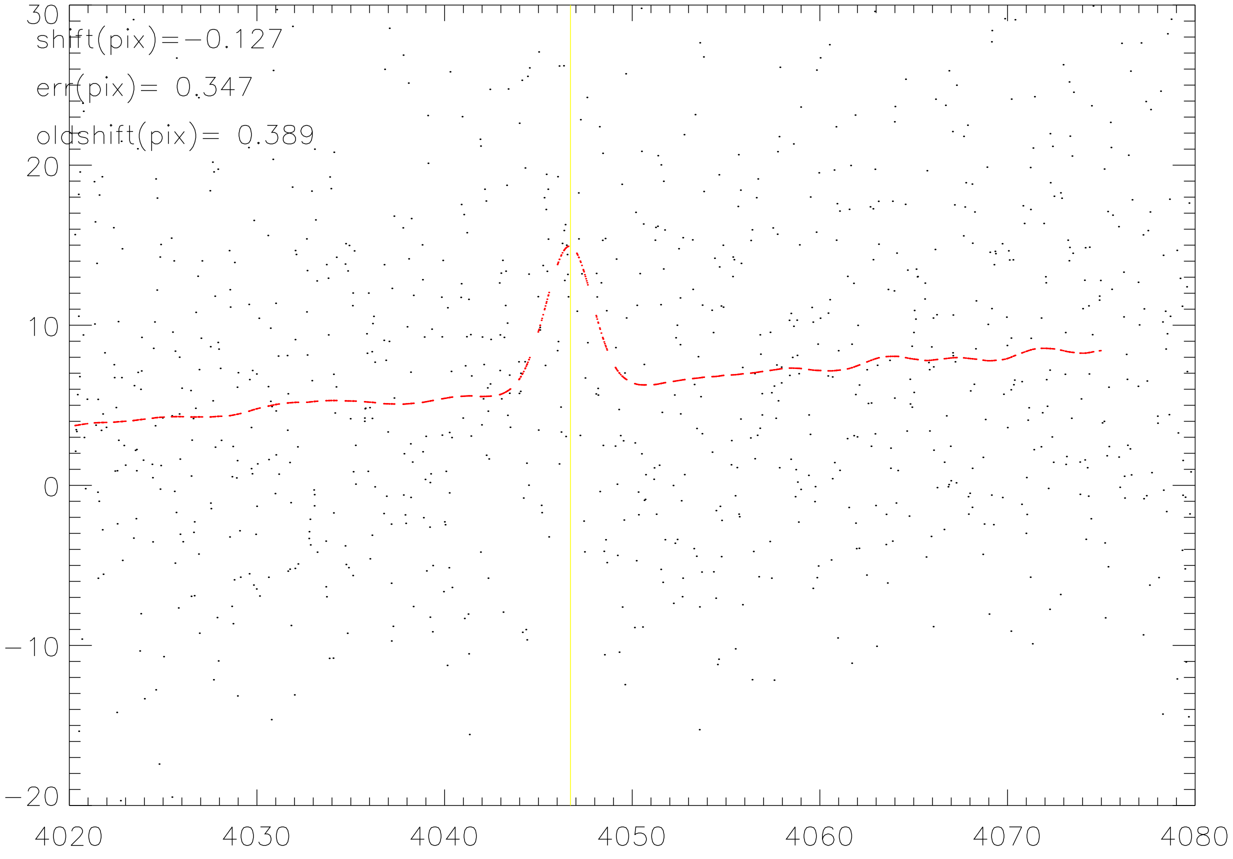
PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002912.fit

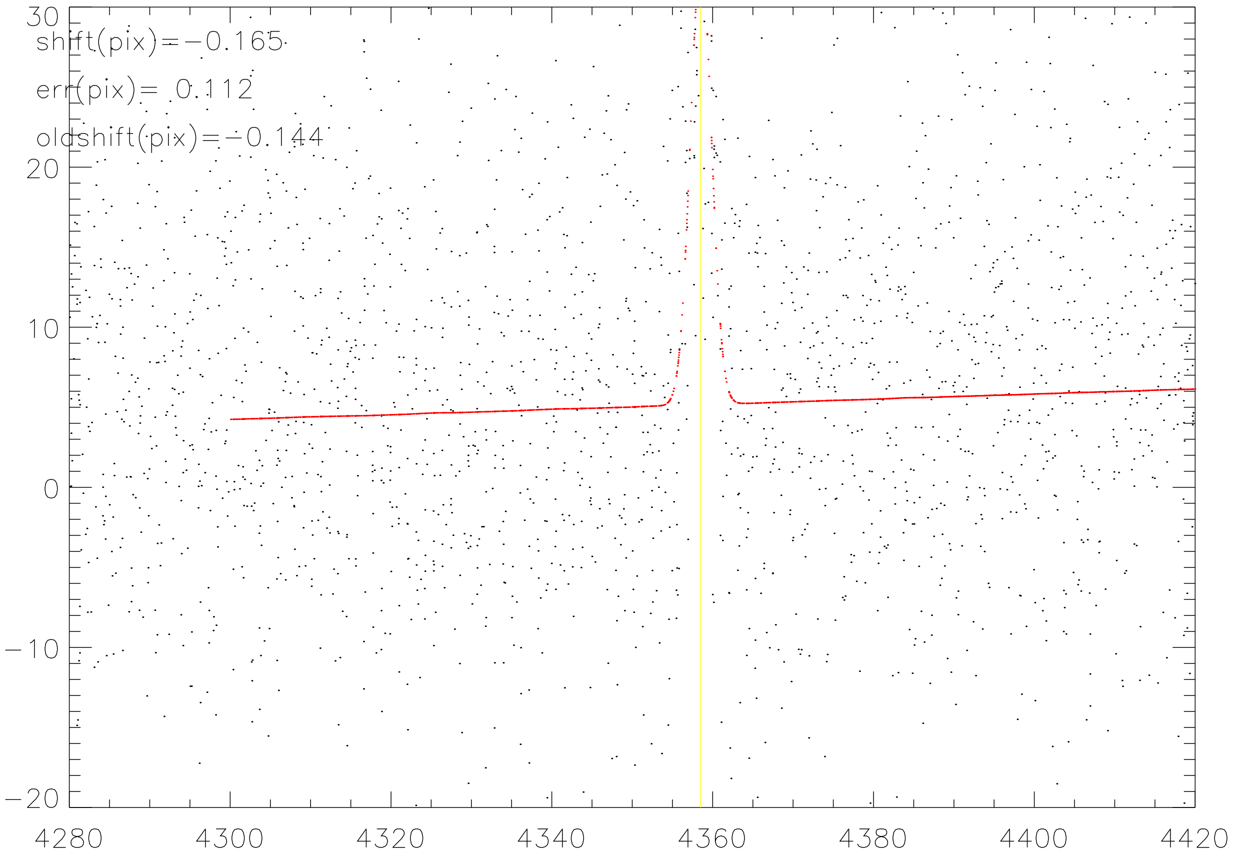


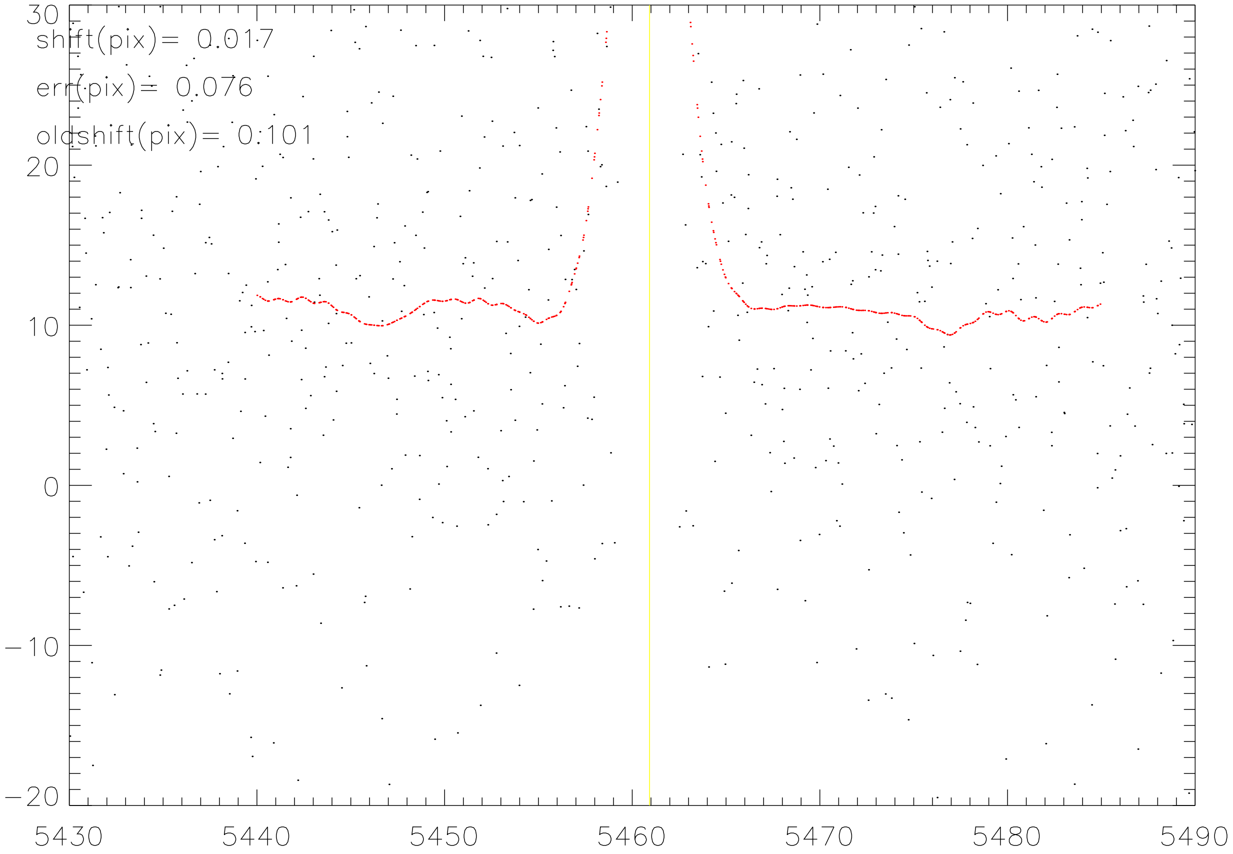
Mon Jul 21 14:29:56 2008

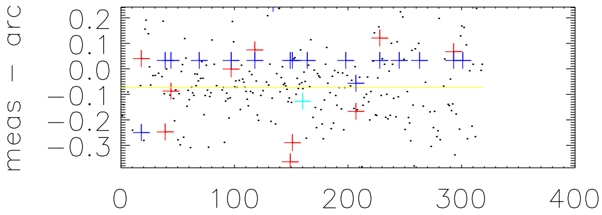

PLATE=0321 MJD=51612 Extraction chi^2 for sdR-b1-00002912.fit
BLACK = Final chisq extraction
BLUE = Initial+scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0.0
0.5
1.0
1.5
2.0
0
500
1000
1500
2000
Row number

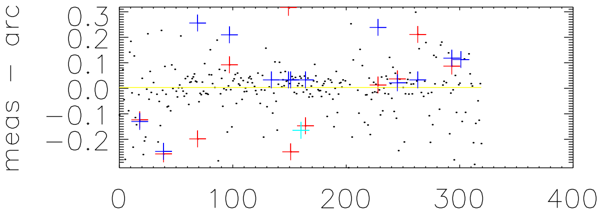

4046.5600
off: 0.39
sig: 0.313
4358.3300
off: −0.14
sig: 0.105
5460.9400
off: 0.10
sig: 0.069
5577.3390
off: 0.07
sig: 0.005
5889.9500
off: 0.10
sig: 0.036
5895.9240
off: 0.09
sig: 0.061
−4
−2
0
2
4

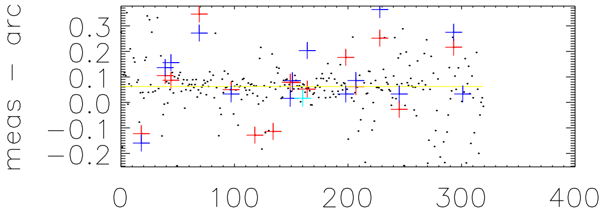

shift(pix)=−0.127
err(pix)= 0.347
oldshift(pix)= 0.389
30
20
10
0
−10
−20
4020
4030
4040
4050
4060
4070
4080

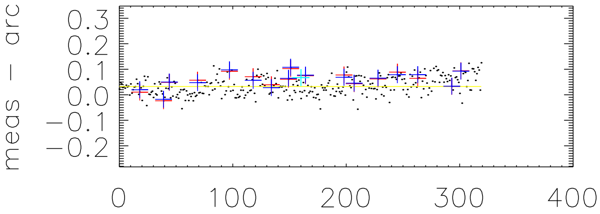

shift(pix)=−0.165
err(pix)= 0.112
oldshift(pix)=−0.144
30
20
10
0
−10
−20
4280
4300
4320
4340
4360
4380
4400
4420

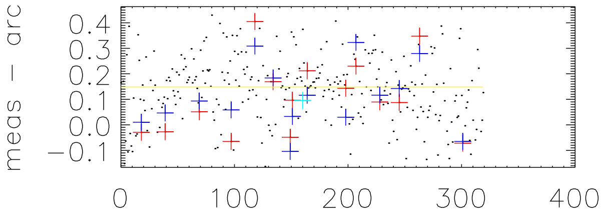

shift(pix)= 0.017
err(pix)= 0.076
oldshift(pix)= 0.101
30
20
10
0
−10
−20
5430
5440
5450
5460
5470
5480
5490

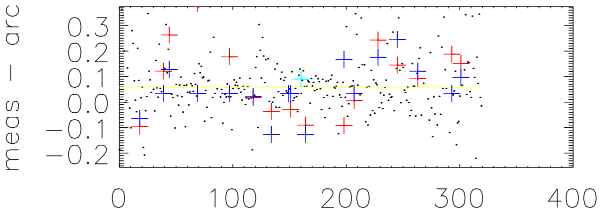

4046.5600

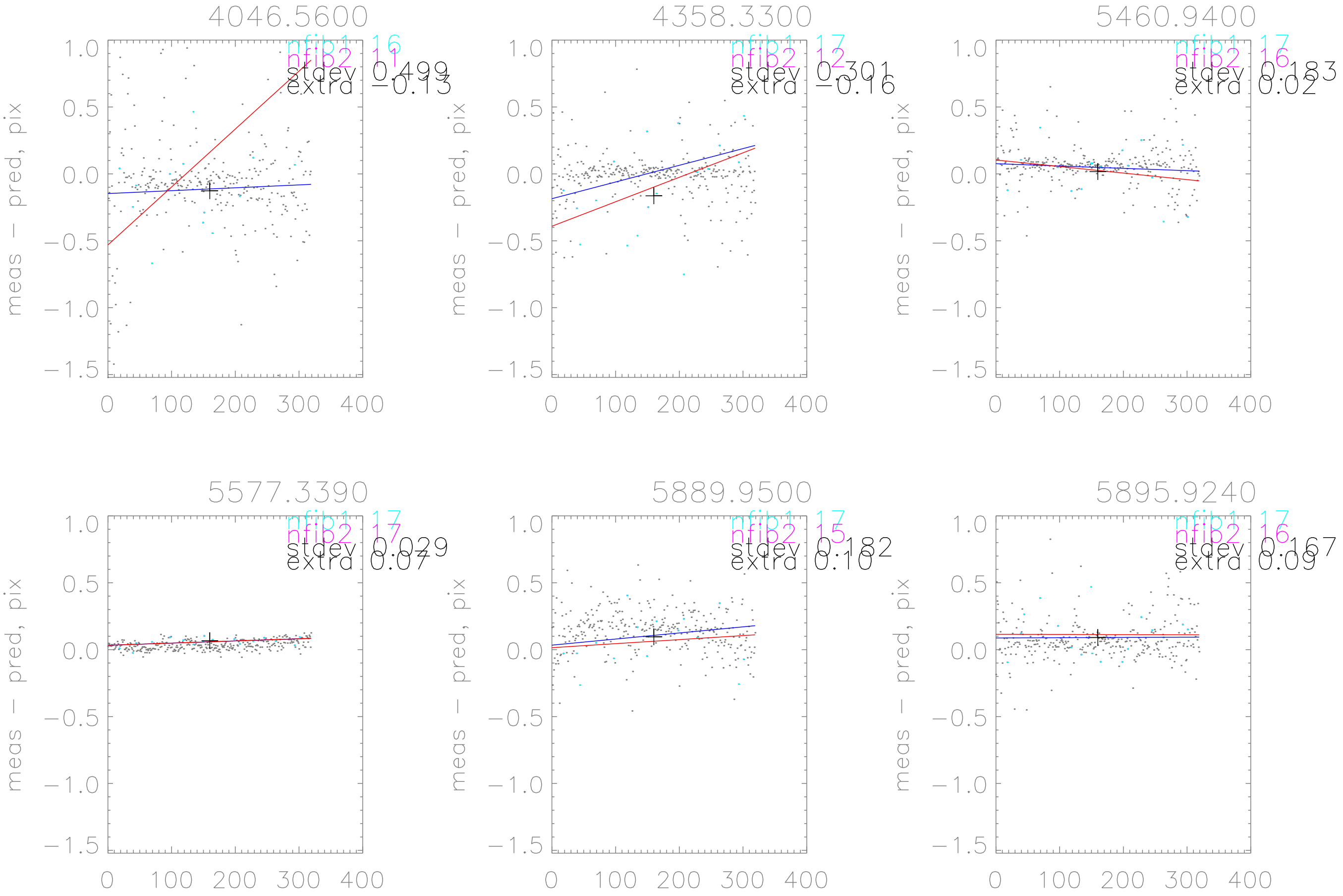

4358.3300

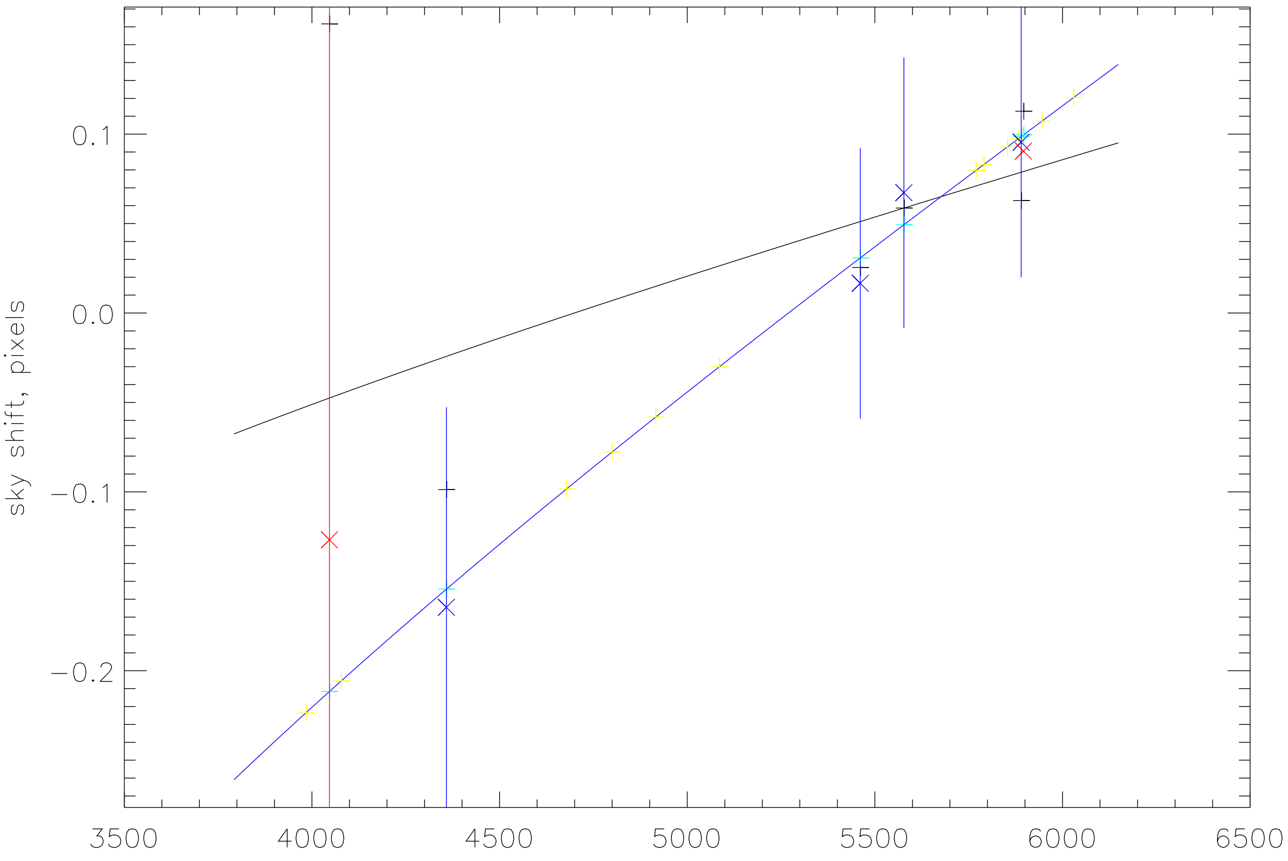

5460.9400

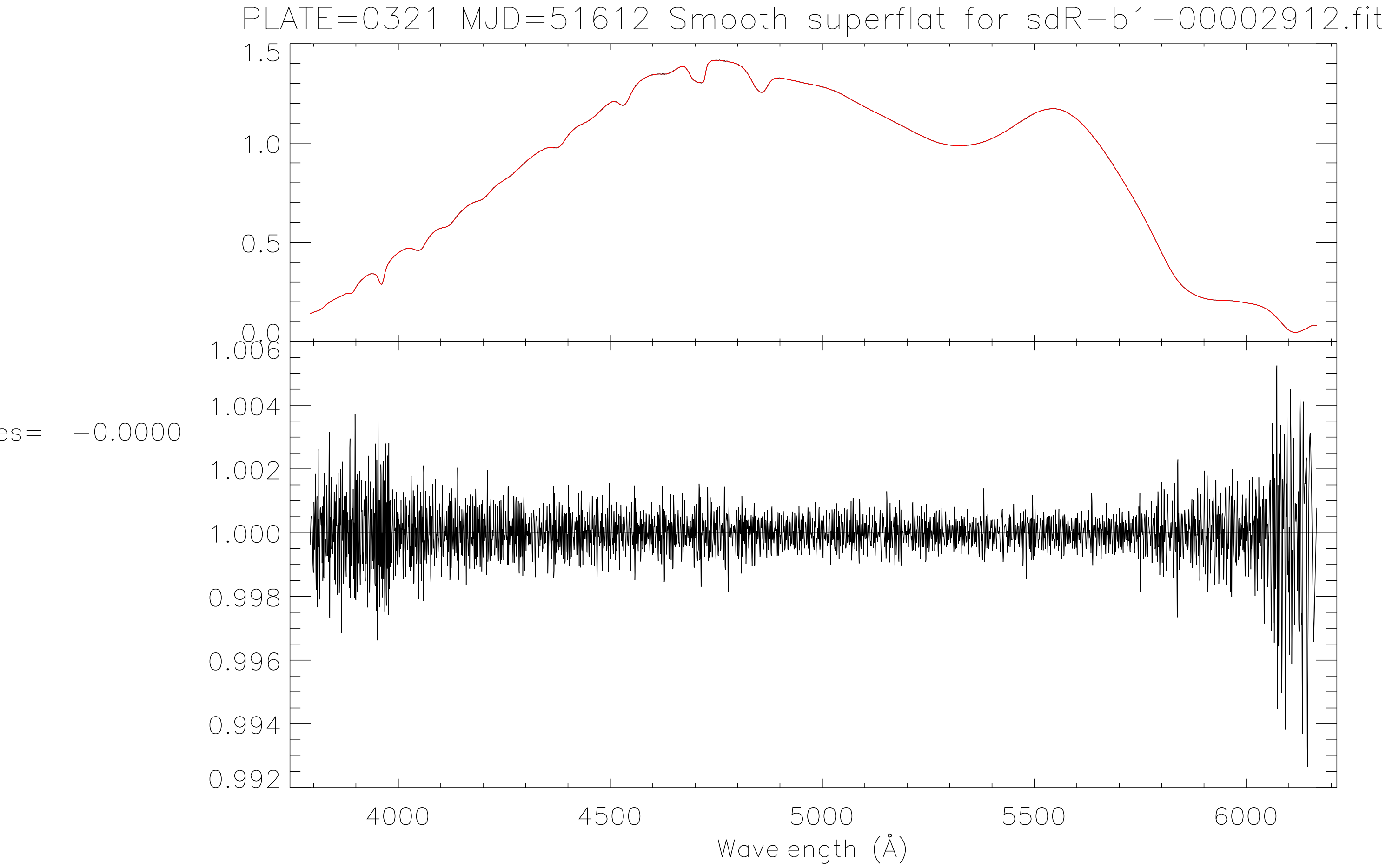

5577.3390


5889.9500

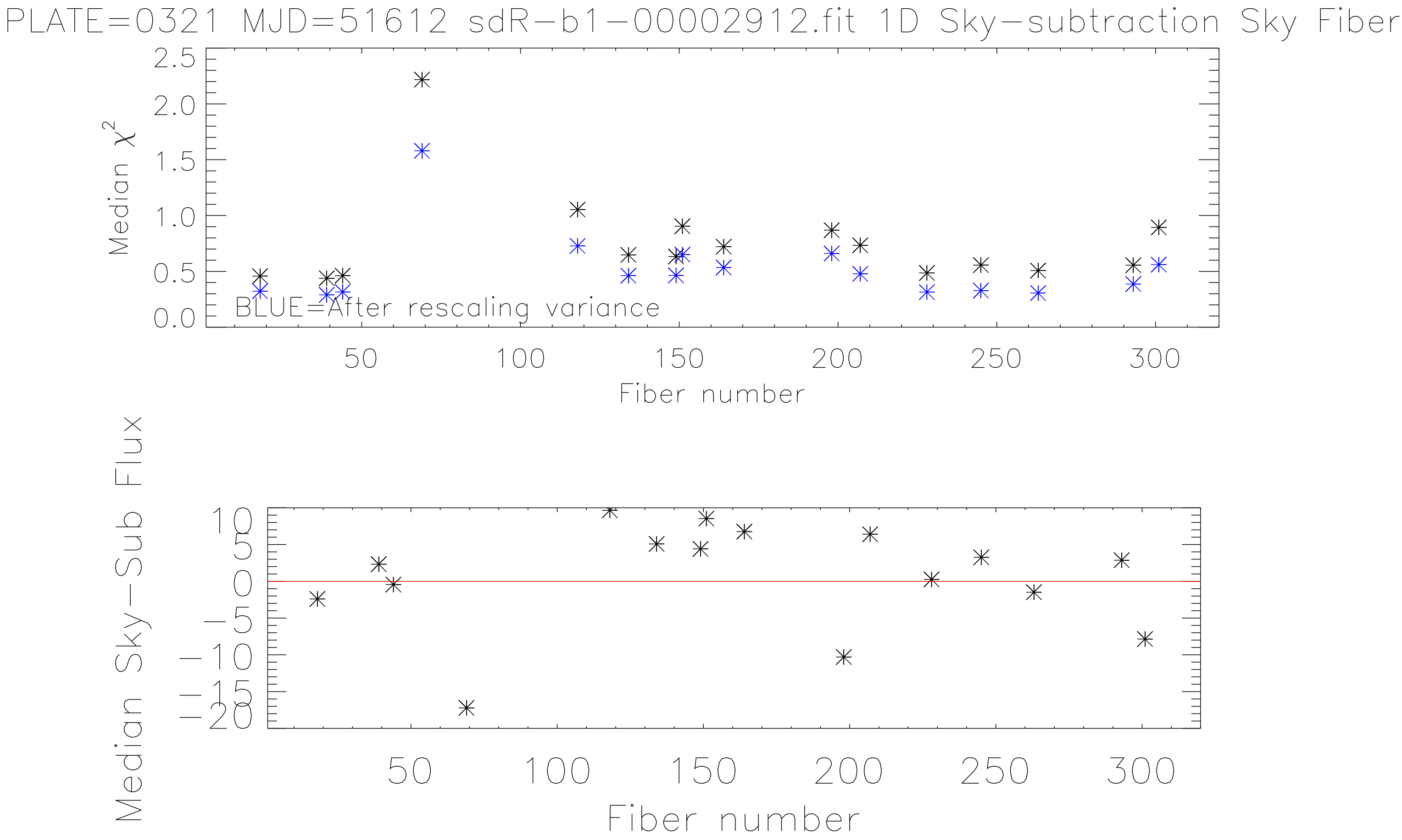

5895.9240

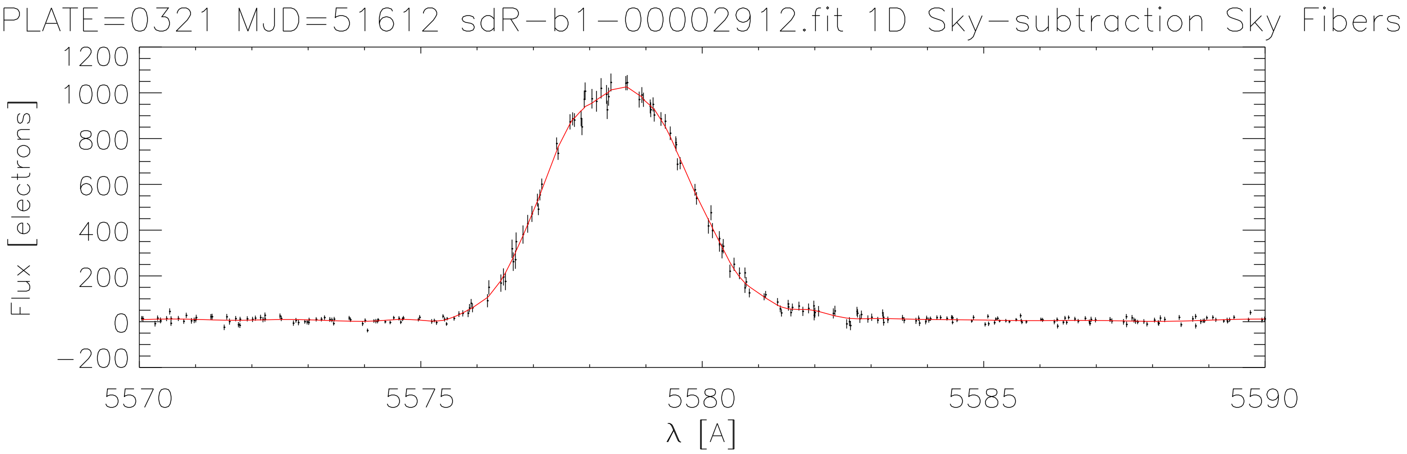

4046.5600
nfib1 16
nfib2 11
stdev 0.499
extra −0.13
4358.3300
nfib1 17
nfib2 12
stdev 0.301
extra −0.16
5460.9400
nfib1 17
nfib2 16
stdev 0.183
extra 0.02
5577.3390
nfib1 17
nfib2 17
stdev 0.029
extra 0.07
5889.9500
nfib1 17
nfib2 15
stdev 0.182
extra 0.10
5895.9240
nfib1 17
nfib2 16
stdev 0.167
extra 0.09
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
−1.5
0
100
200
300
400


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

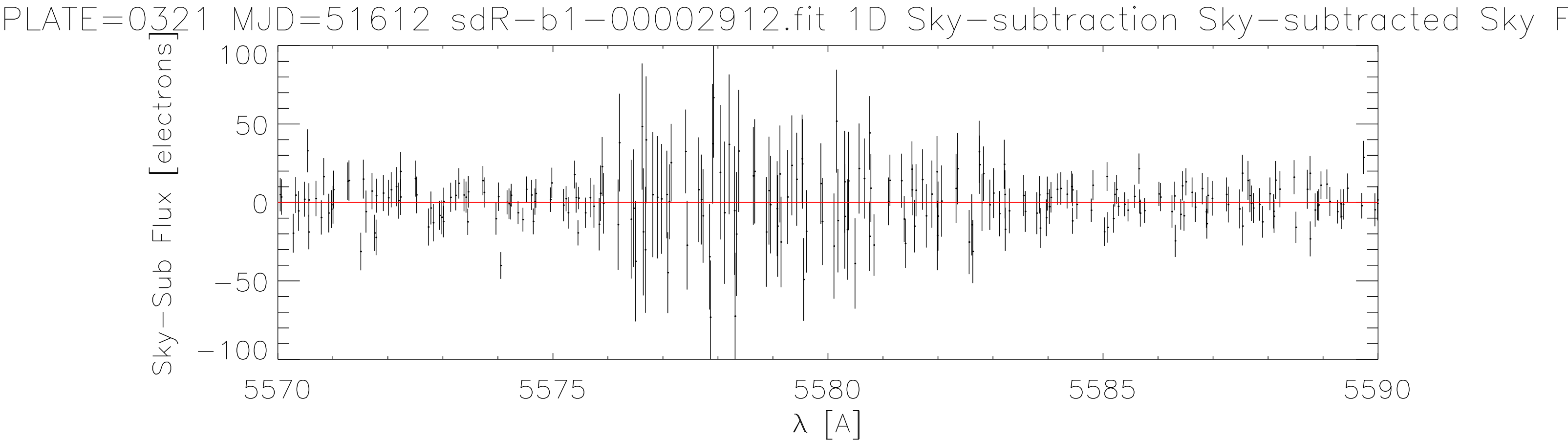


PLATE=0321 MJD=51612 Smooth superflat for sdR-b1-00002912.fit


PLATE=0321 MJD=51612 sdR-b1-00002912.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.0
0.5
1.0
1.5
2.0
2.5
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
-20
50
100
150
200
250
300
Fiber number



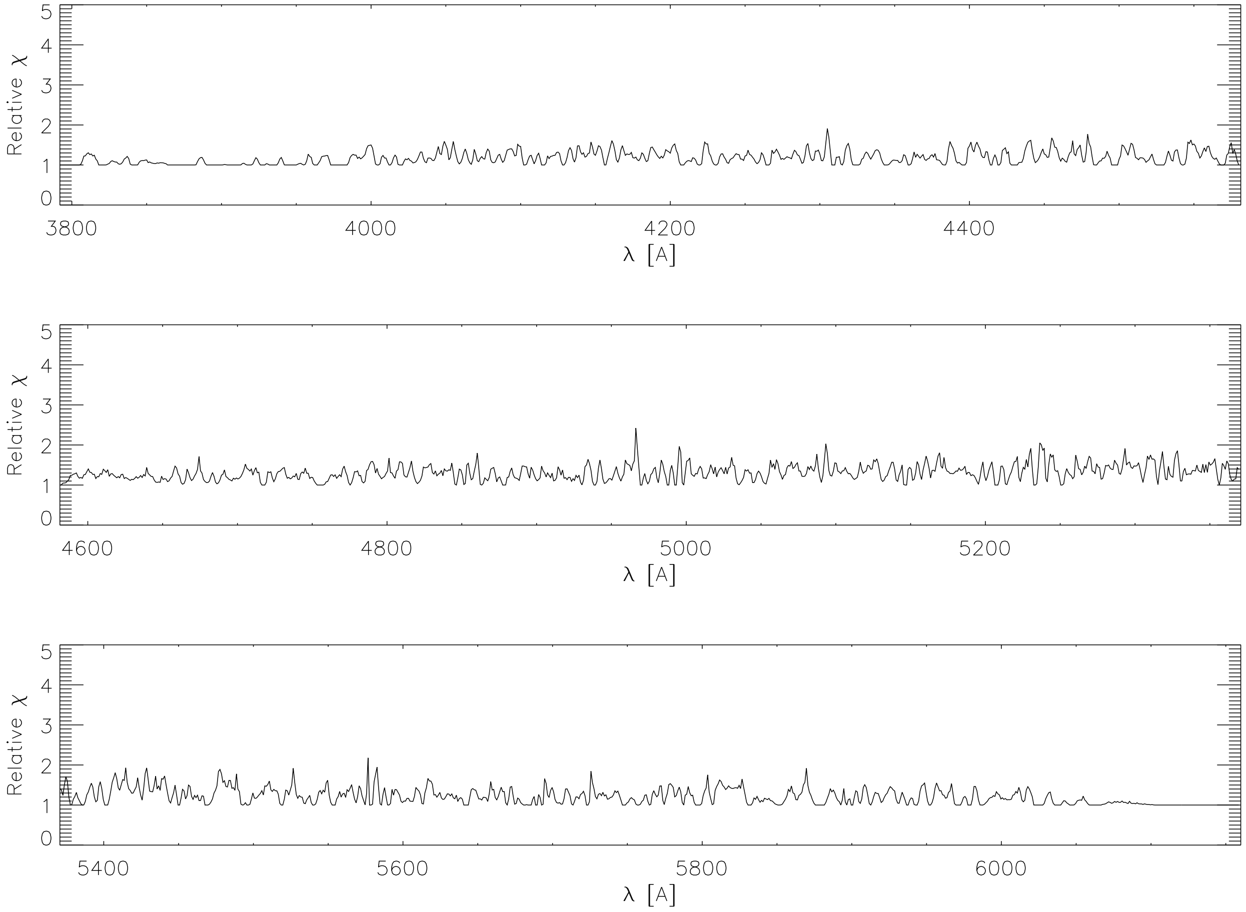
PLATE=0321 MJD=51612 sdR-b1-00002912.fit 1D Sky-subtraction Sky Fibers

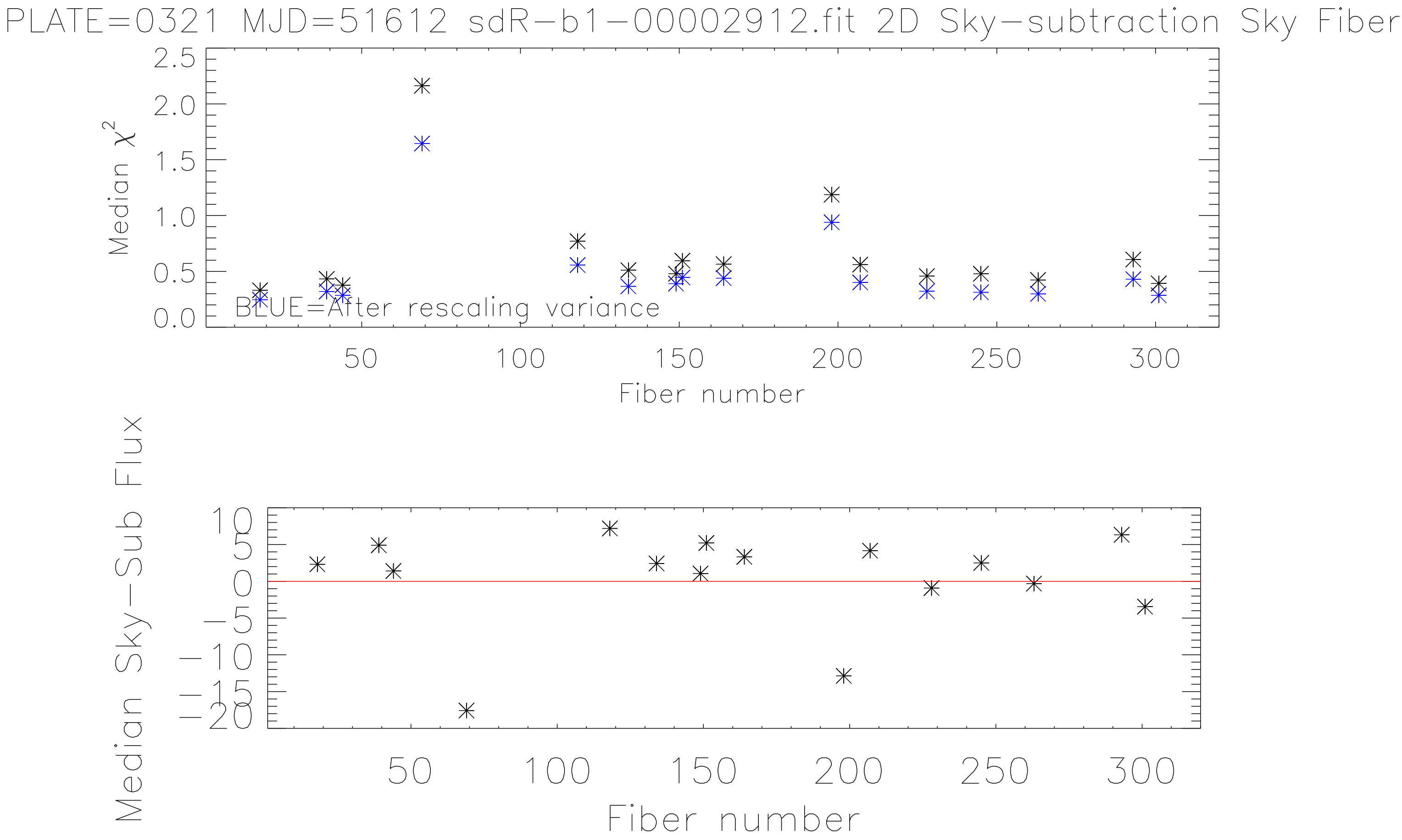


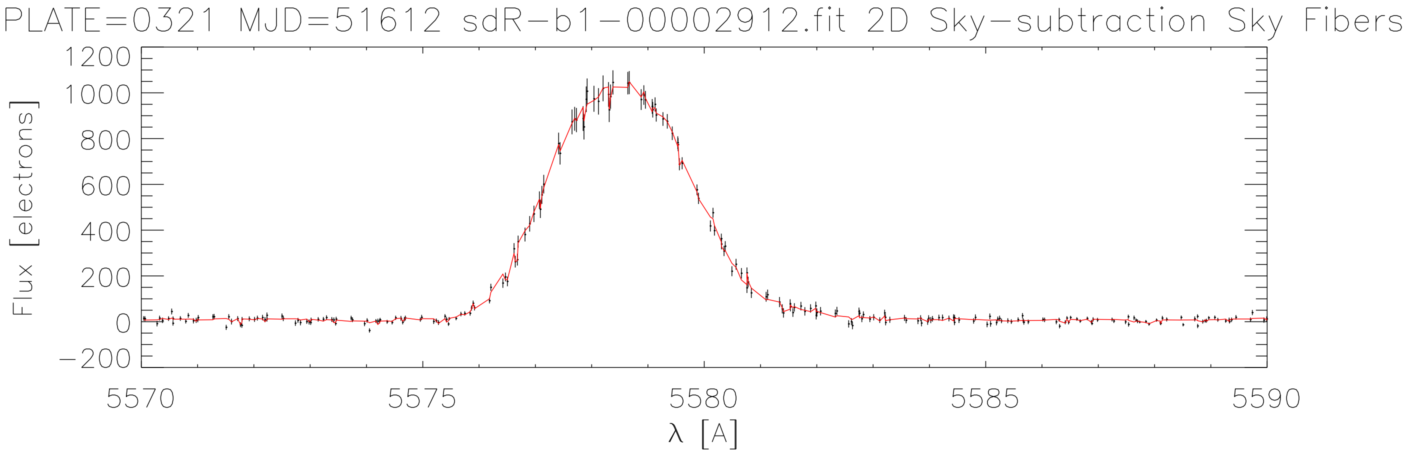
PLATE=0321 MJD=51612 sdR-b1-00002912.fit 1D Sky-subtraction Sky-subtracted Sky F

Number of sky fibers = 16

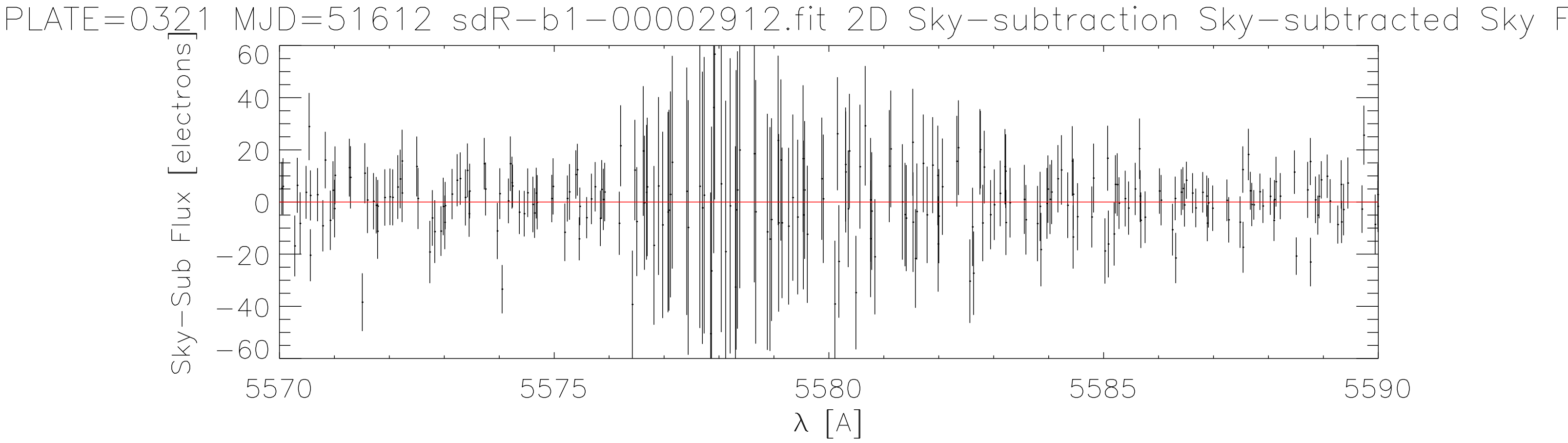
PLATE=0321 MJD=51612 sdR-b1-00002912.fit 1D Sky-subtraction Rescaled Errors



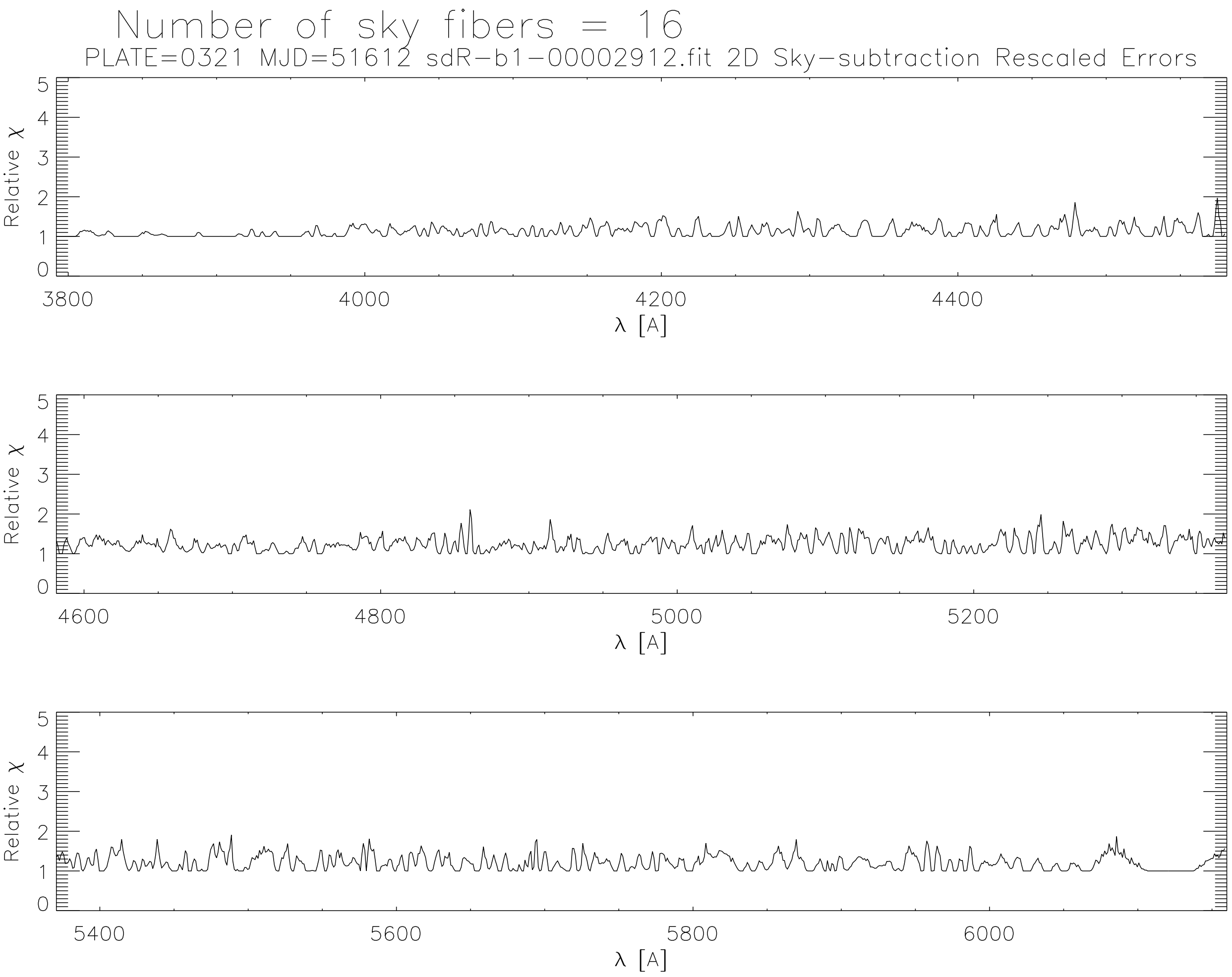

PLATE=0321 MJD=51612 sdR-b1-00002912.fit 2D Sky-subtraction Sky Fiber
Median χ^2
2.5
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
-20
50
100
150
200
250
300
Fiber number

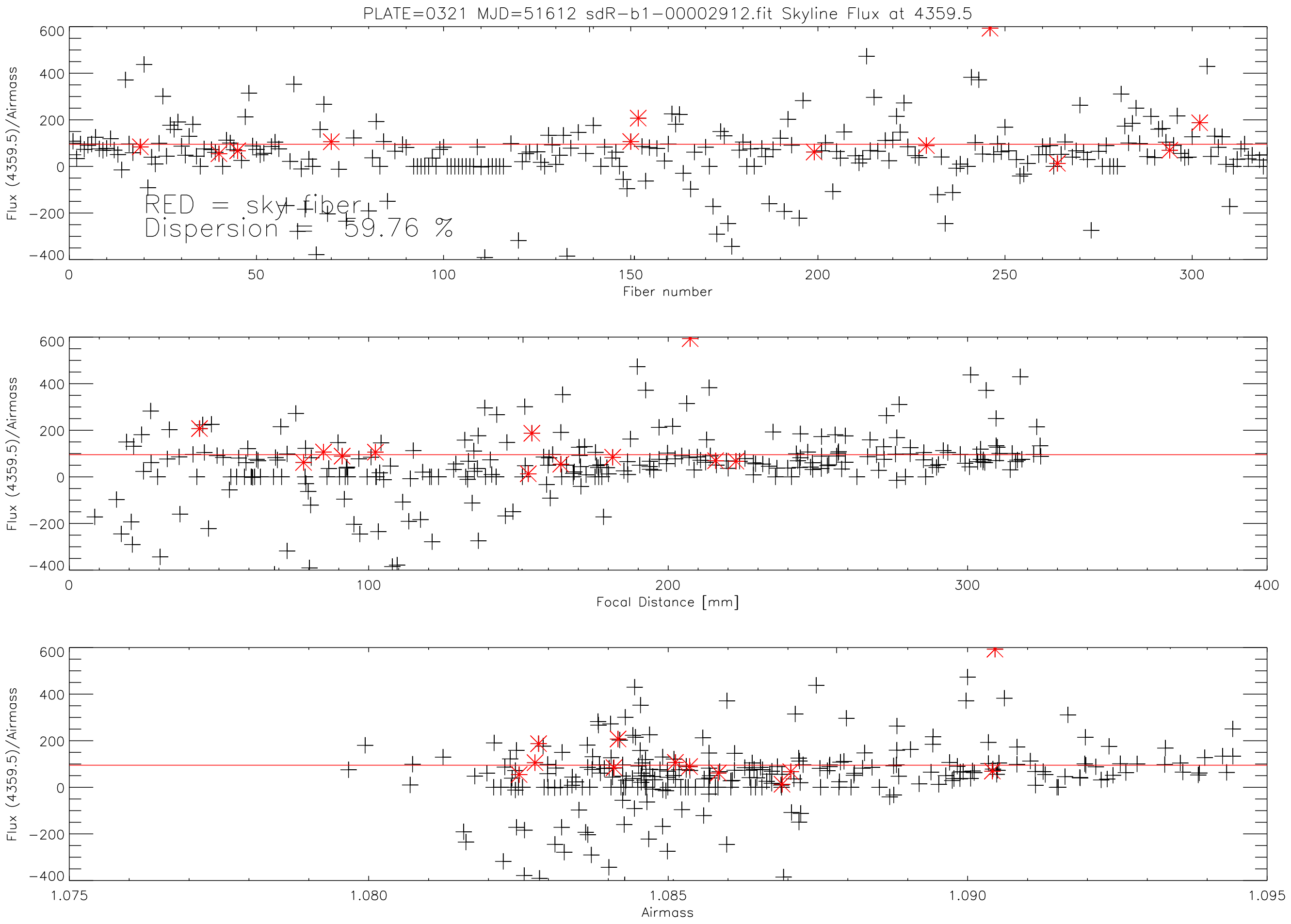


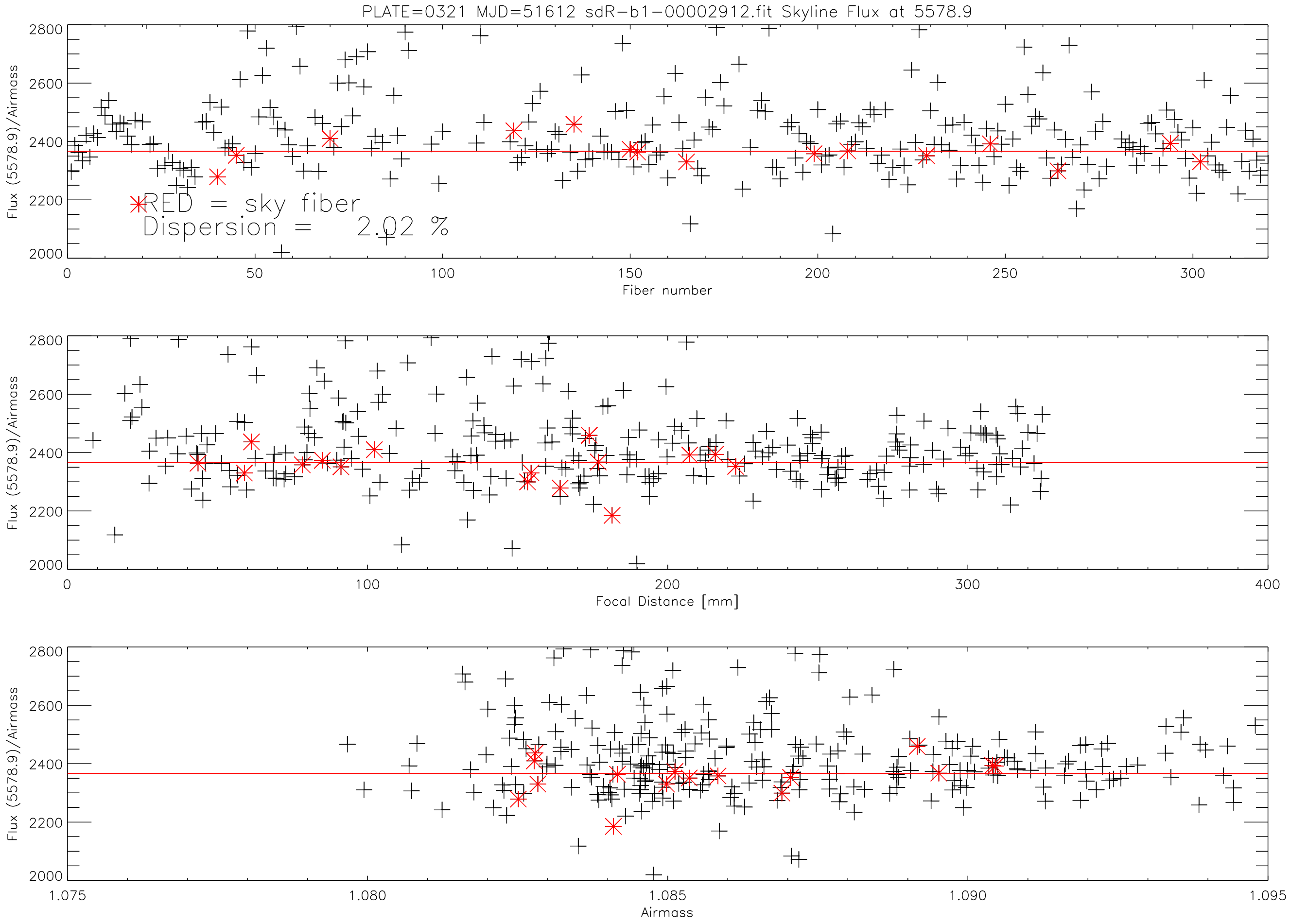
PLATE=0321 MJD=51612 sdR-b1-00002912.fit 2D Sky-subtraction Sky Fibers



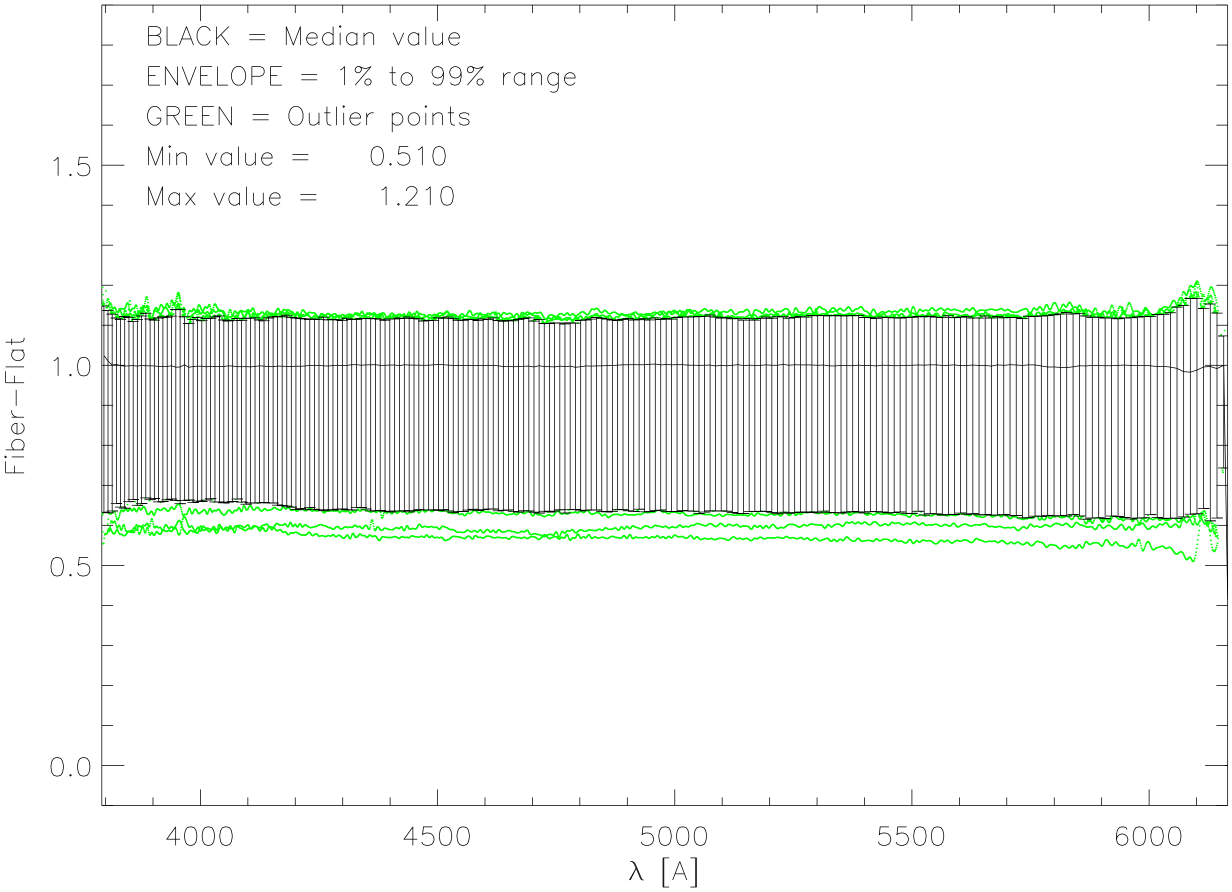
PLATE=0321 MJD=51612 sdR-b1-00002912.fit 2D Sky-subtraction Sky-subtracted Sky F


Number of sky fibers = 16
PLATE=0321 MJD=51612 sdR-b1-00002912.fit 2D Sky-subtraction Rescaled Errors
Relative χ
0
1
2
3
4
5
3800
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=0321 MJD=51612 sdR-b1-00002912.fit Skyline Flux at 4359.5
RED = sky fiber
Dispersion = 59.76 %
Flux (4359.5)/Airmass
600
400
200
0
−200
−400
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
600
400
200
0
−200
−400
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
600
400
200
0
−200
−400
1.075
1.080
1.085
1.090
1.095
Airmass

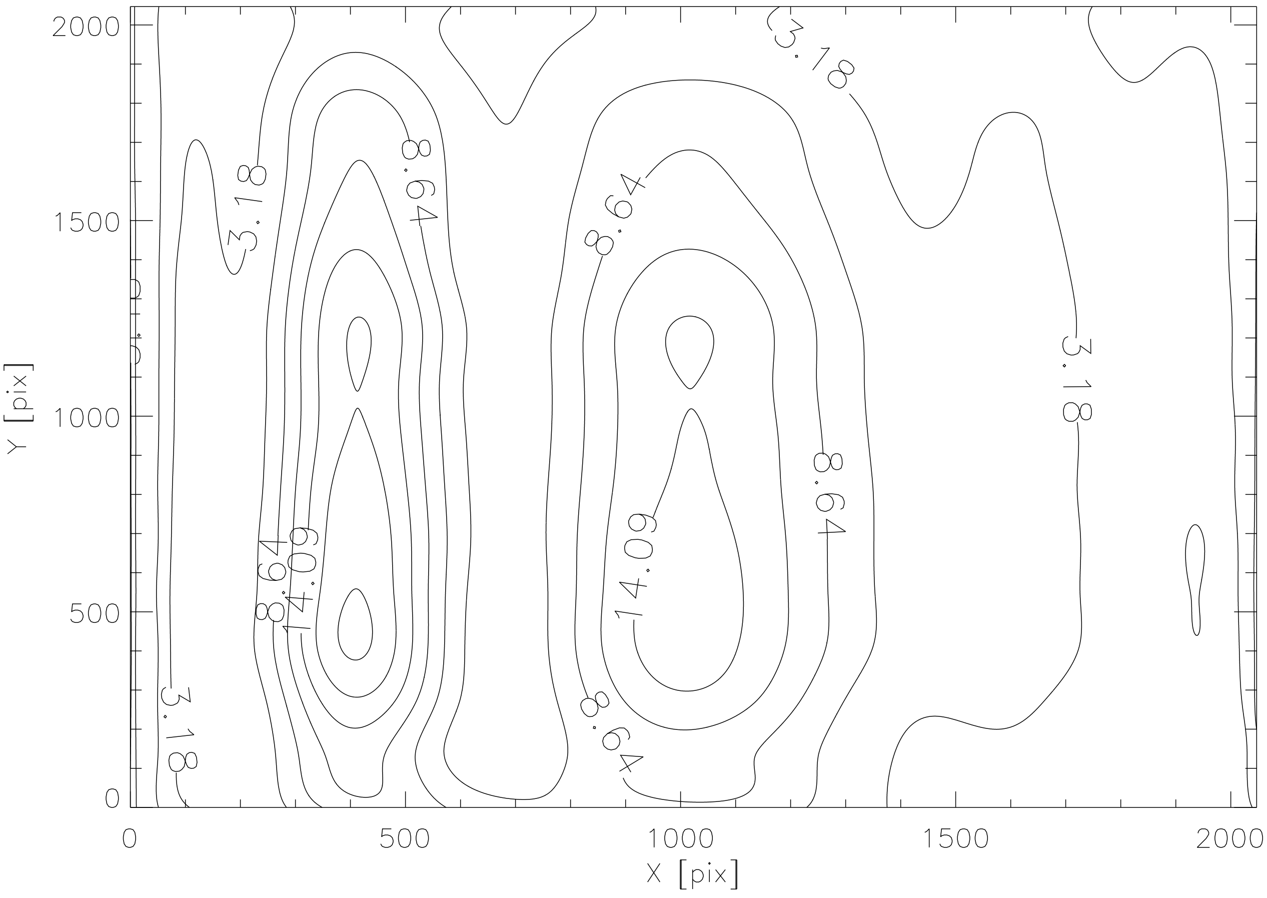

PLATE=0321 MJD=51612 sdR-b1-00002912.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
2000
2200
2400
2600
2800
RED = sky fiber
Dispersion = 2.02 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
2000
2200
2400
2600
2800
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
2000
2200
2400
2600
2800
1.075
1.080
1.085
1.090
1.095
Airmass

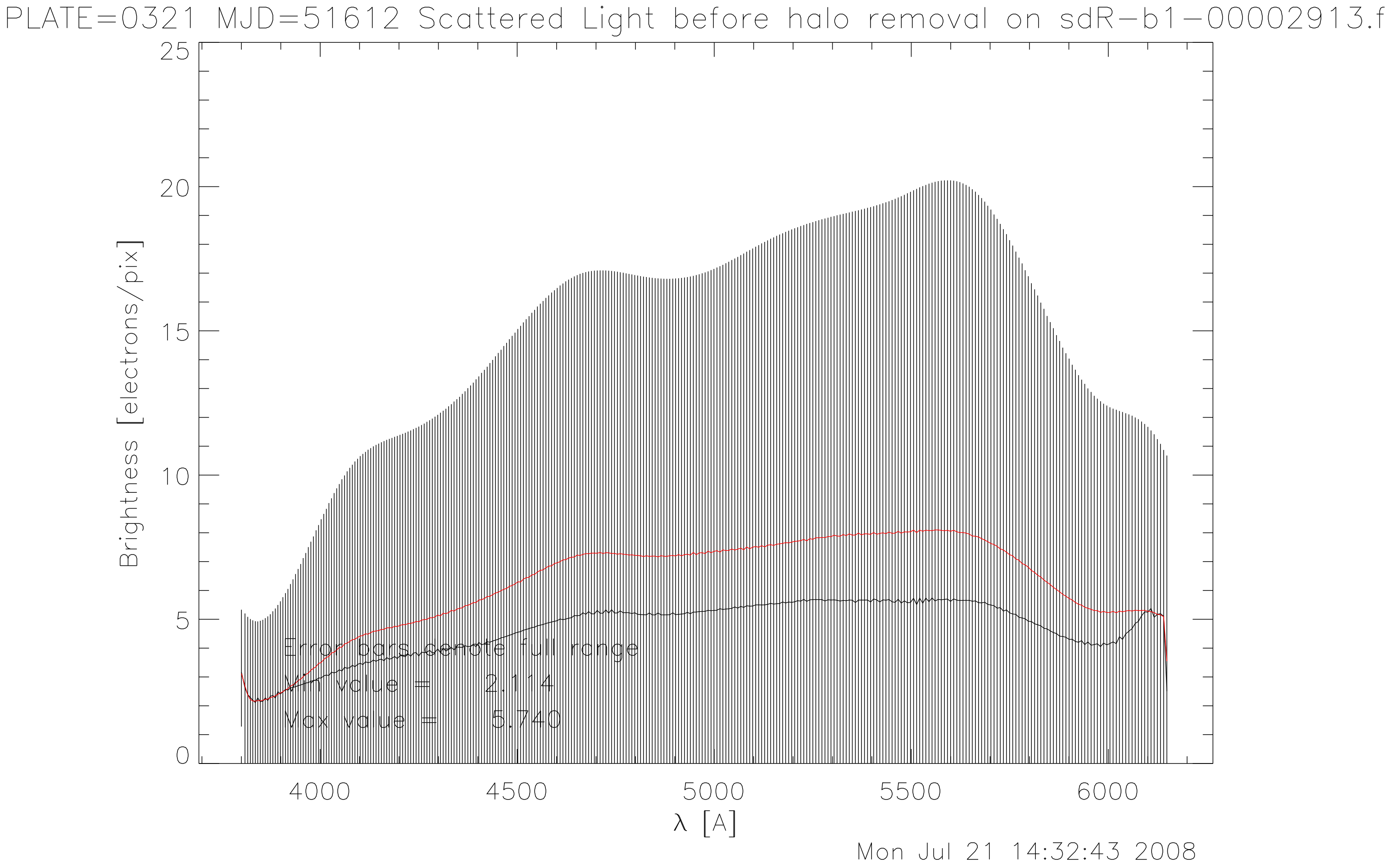
PLATE=0321 MJD=51612 Fiber−Flats for sdR−b1−00002910.fit

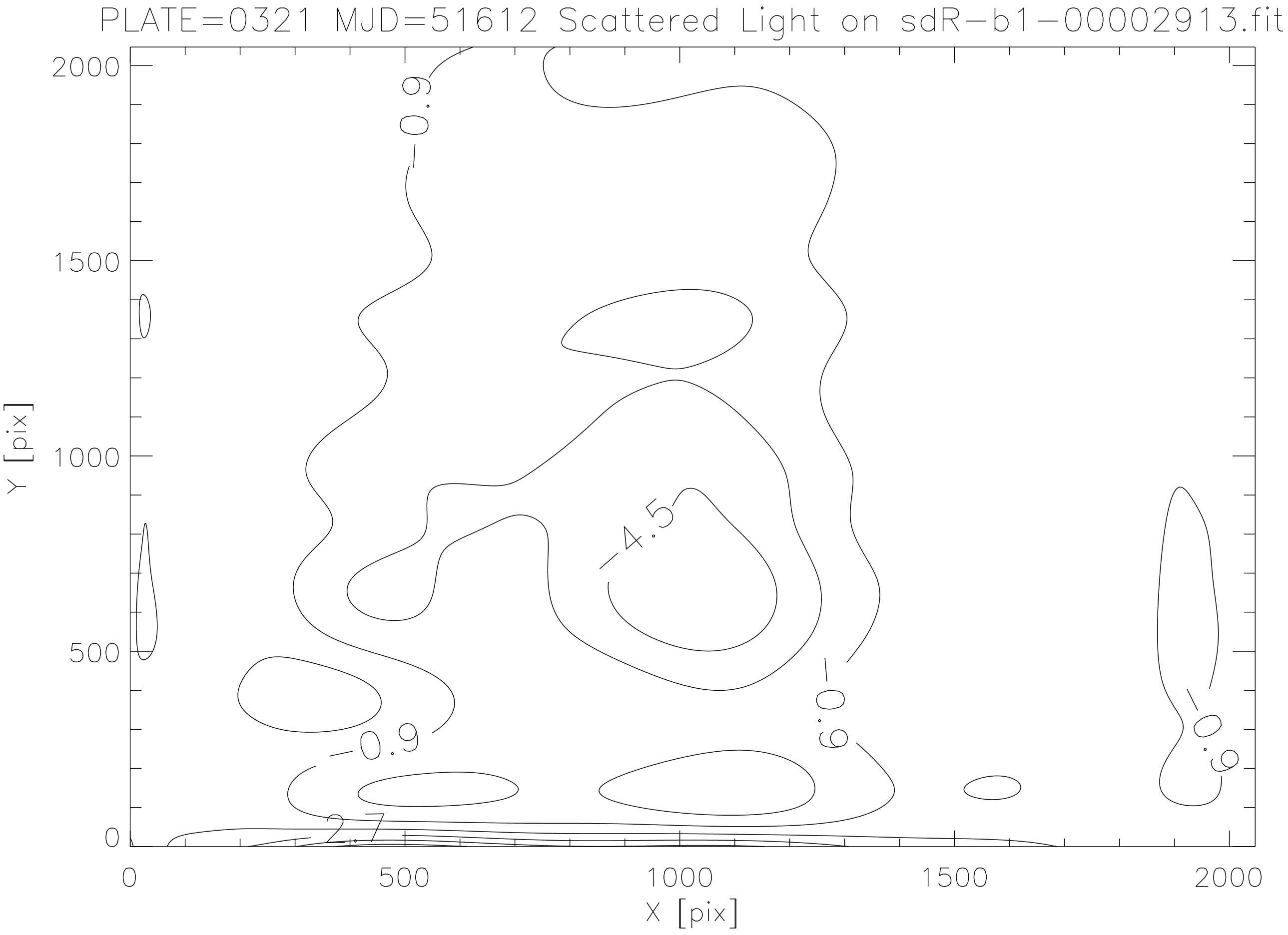


Mon Jul 21 14:31:50 2008

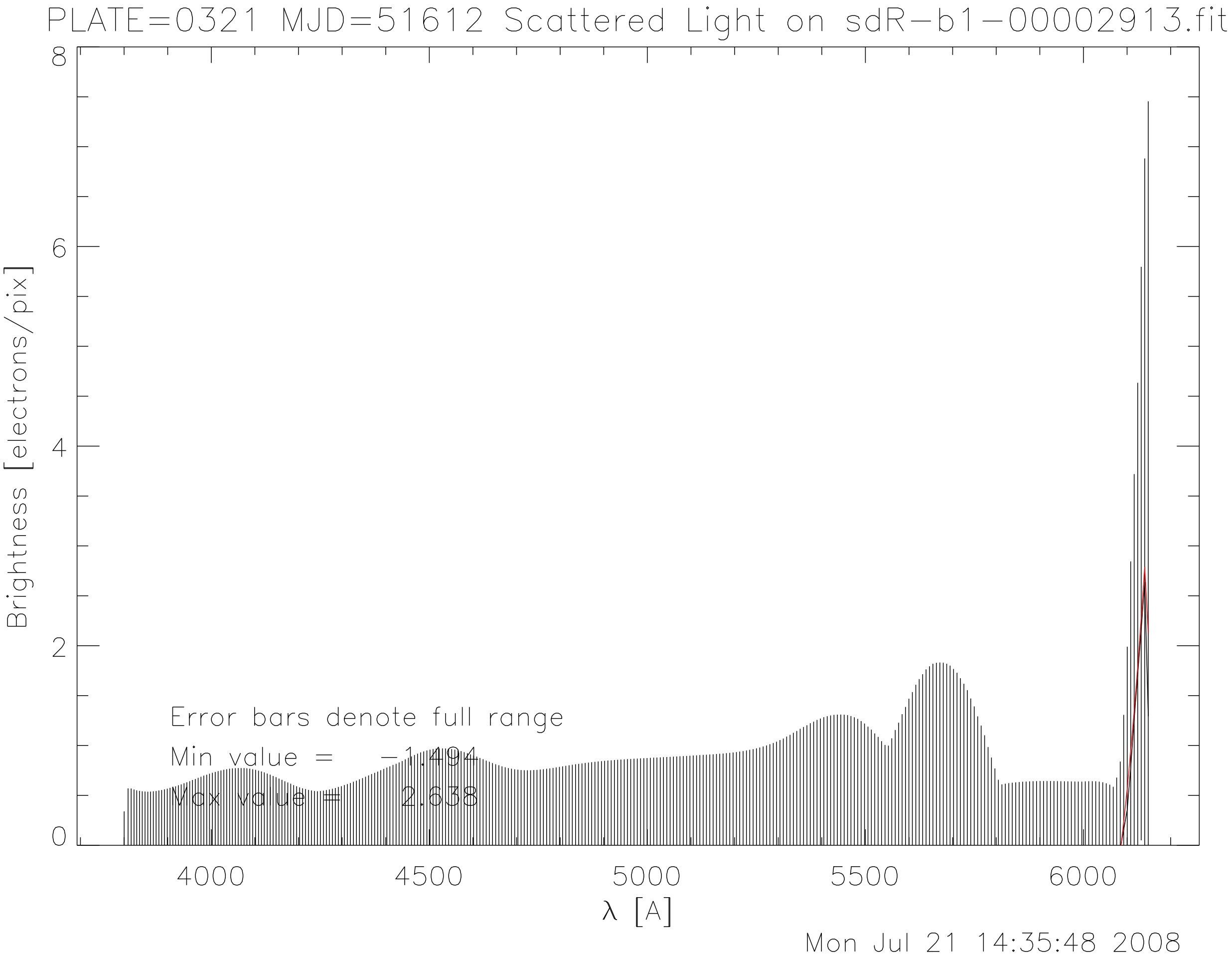
PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002913.f

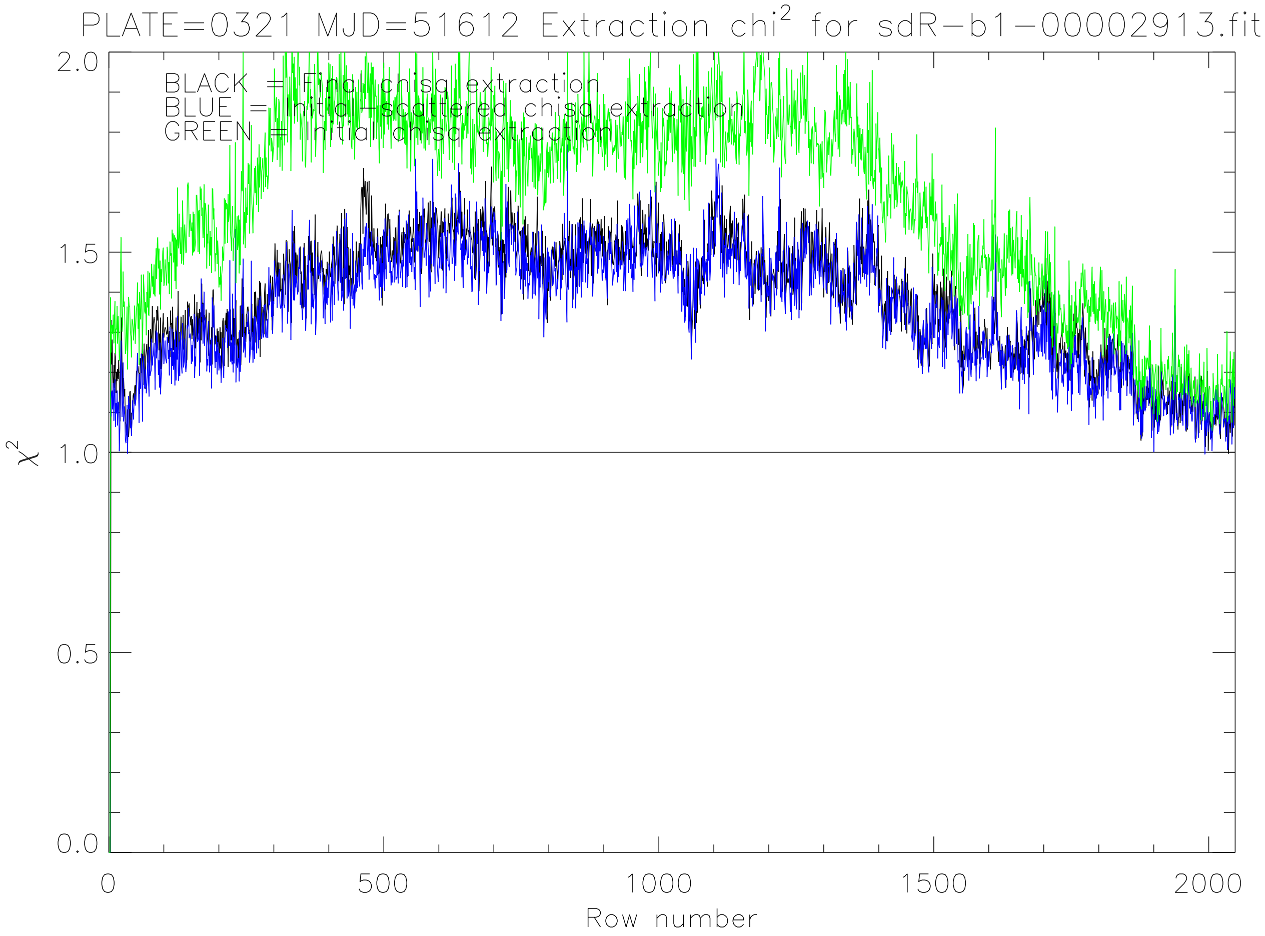



PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002913.f
Brightness [electrons/pix]
0
5
10
15
20
25
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 2.114
Max value = 5.740
Mon Jul 21 14:32:43 2008

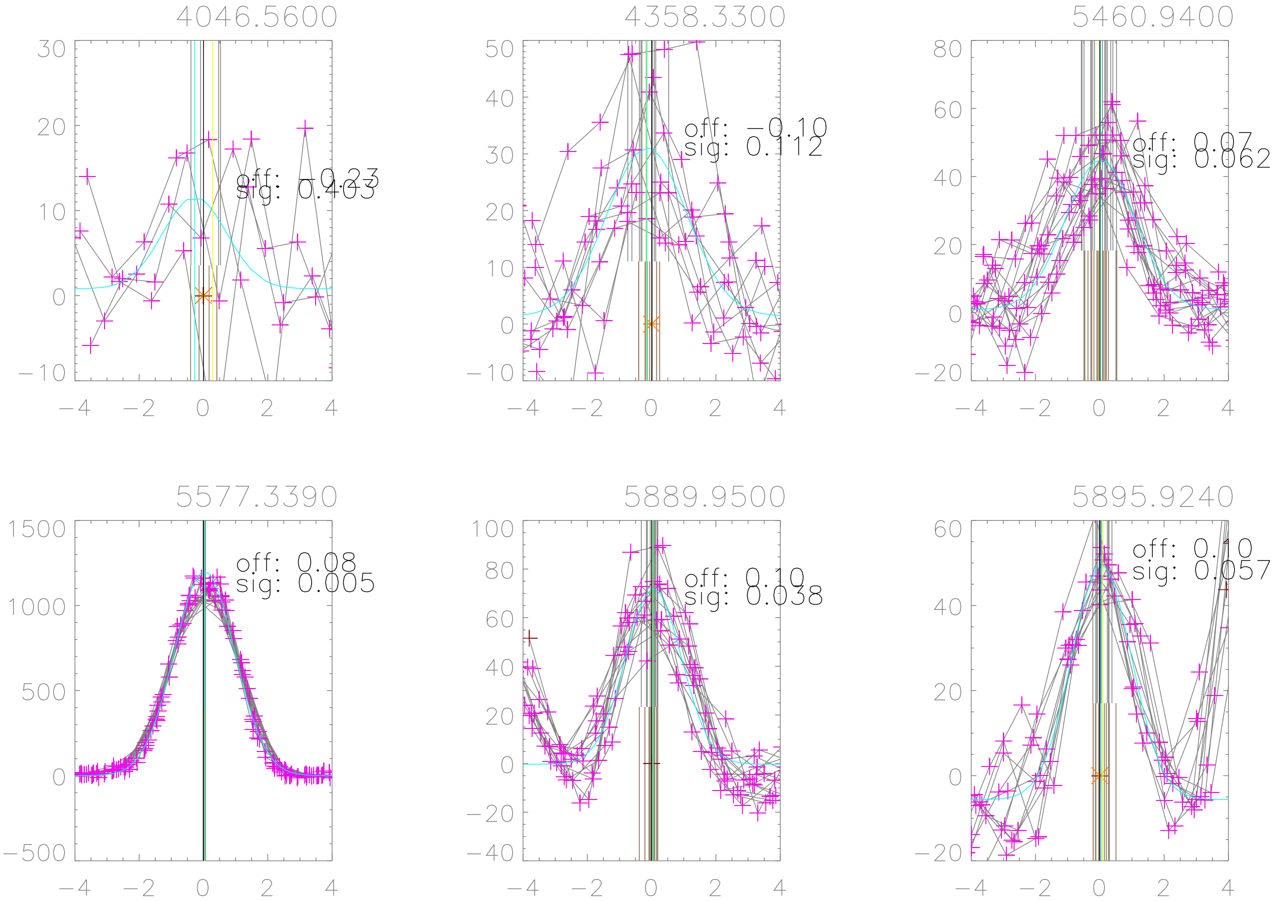


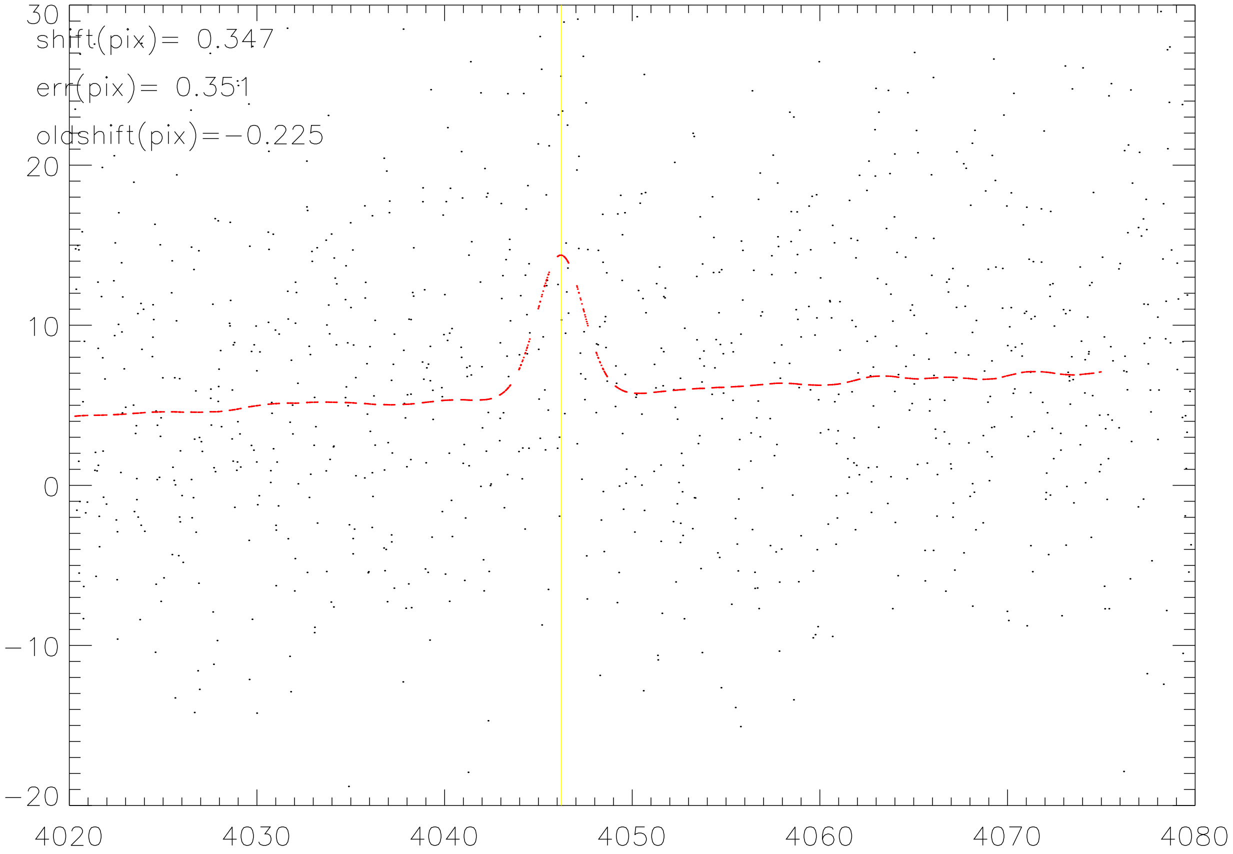
PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002913.fit

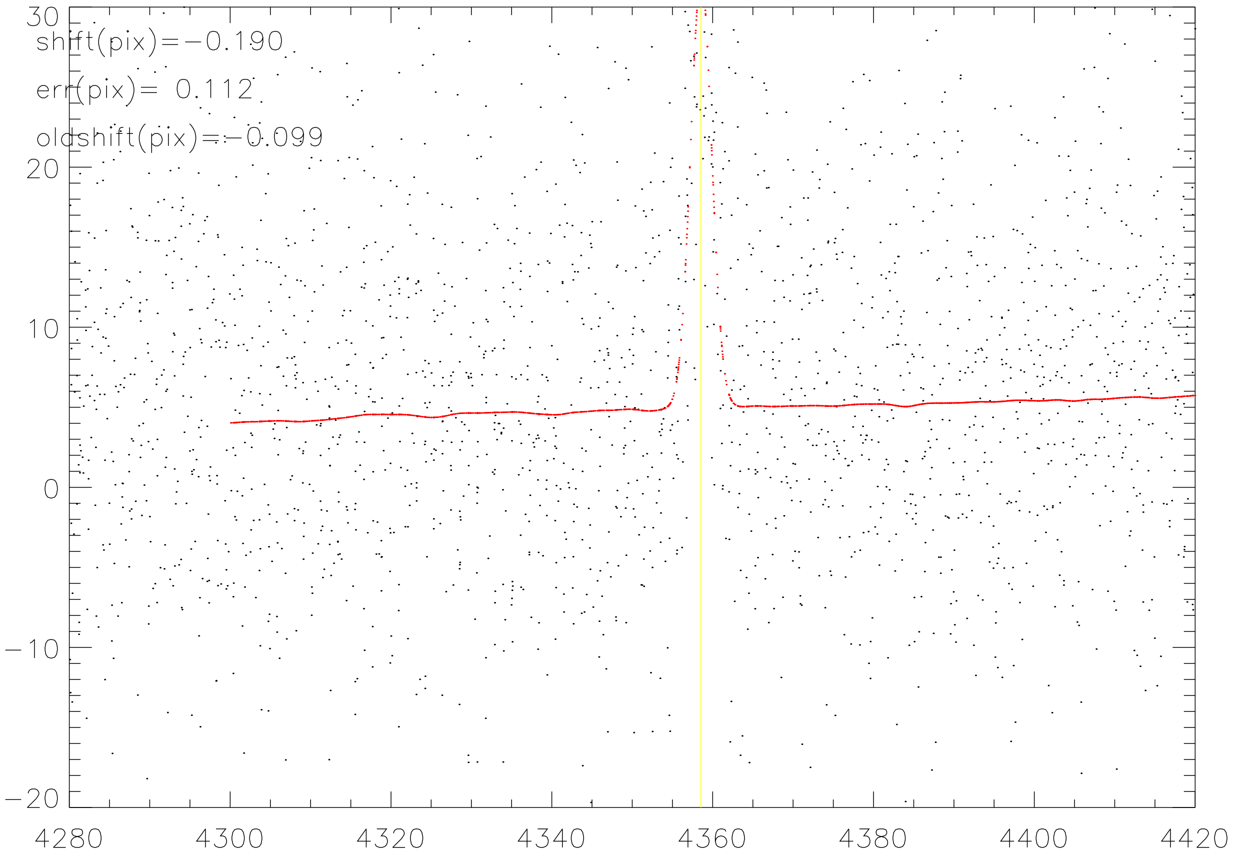

PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002913.fit
Brightness [electrons/pix]
0
2
4
6
8
Error bars denote full range
Min value = -1.494
Max value = 2.638
4000
4500
5000
5500
6000
λ [A]
Mon Jul 21 14:35:48 2008

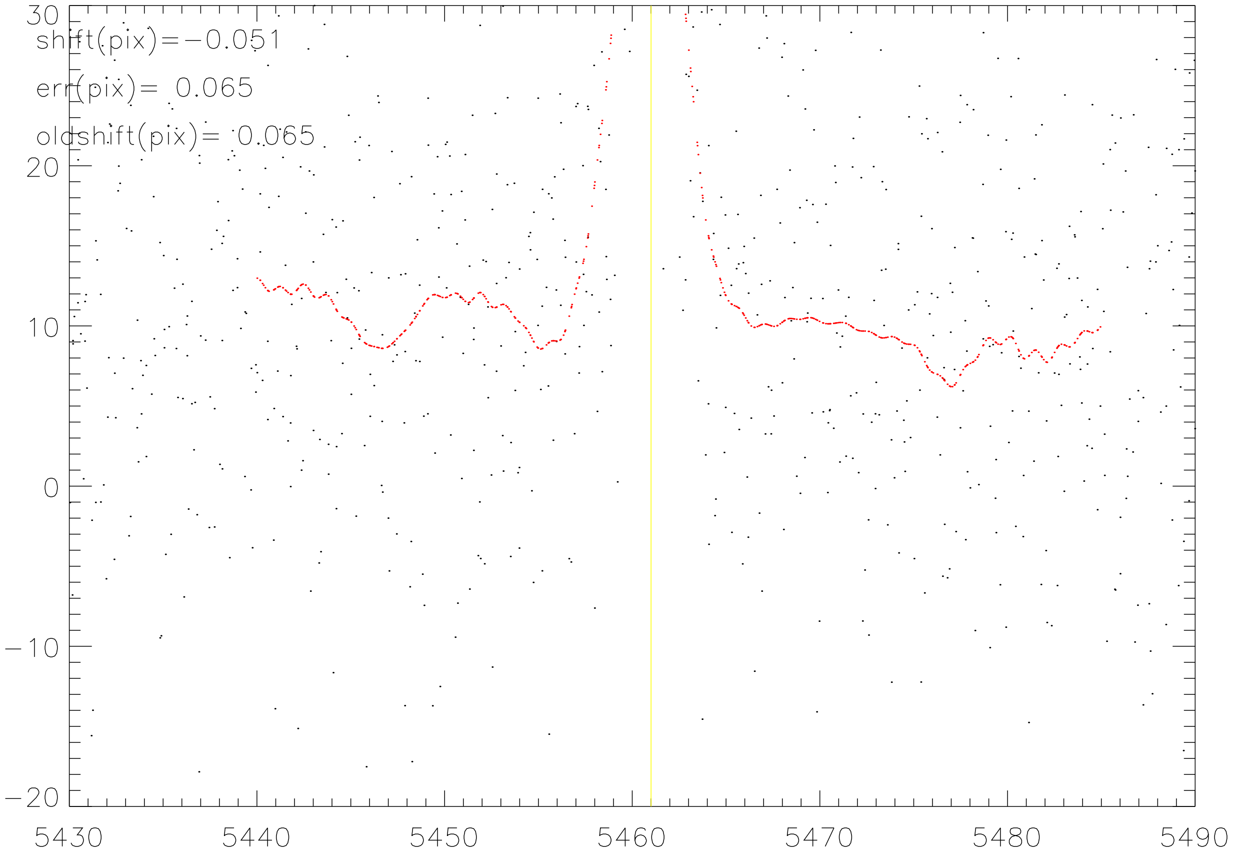


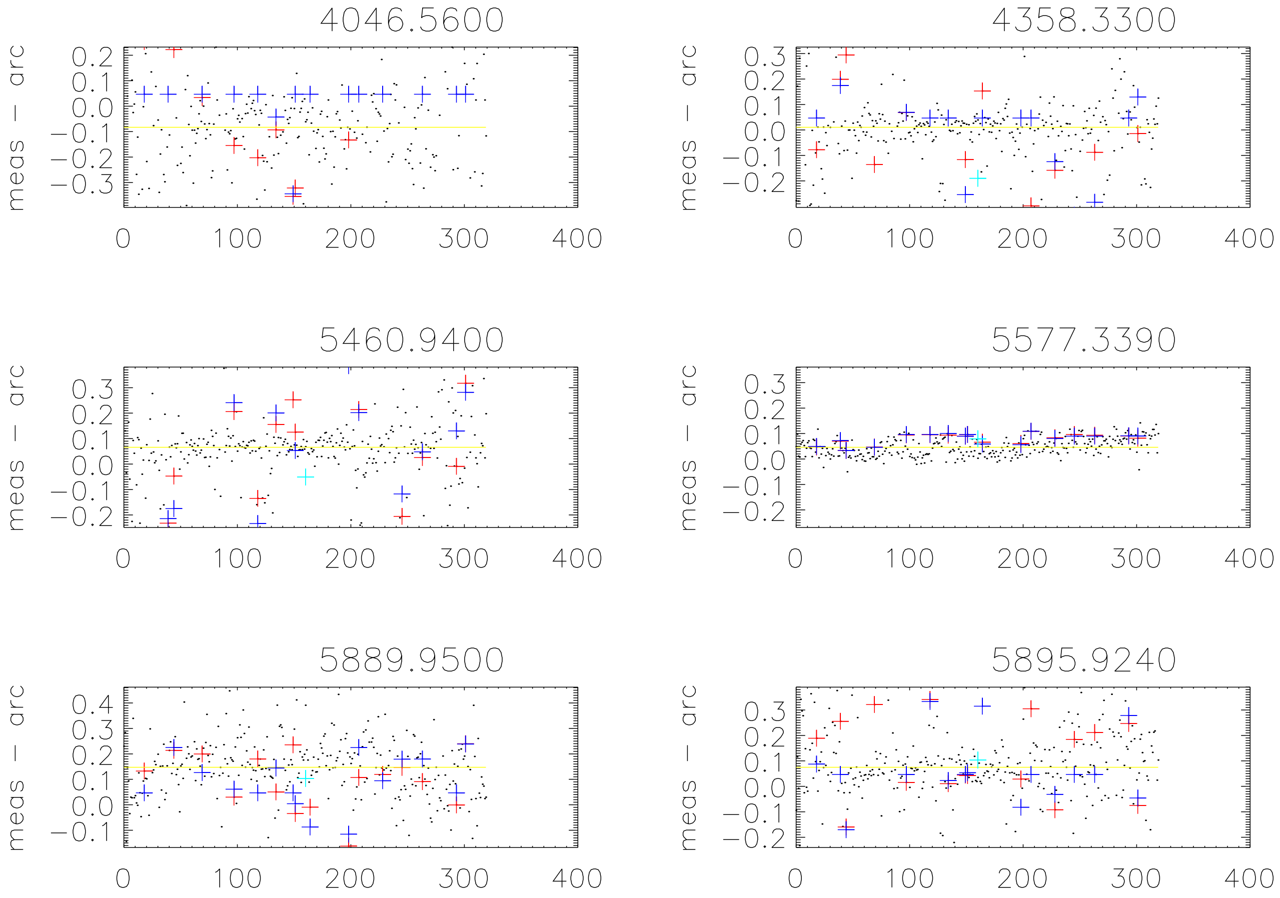
PLATE=0321 MJD=51612 Extraction chi^2 for sdR-b1-00002913.fit

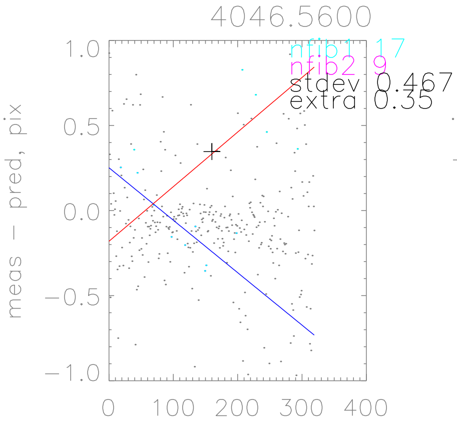

4046.5600
off: −0.23
sig: 0.403
30
20
10
0
−10
−4
−2
0
2
4
4358.3300
off: −0.10
sig: 0.112
50
40
30
20
10
0
−10
5460.9400
off: 0.07
sig: 0.062
80
60
40
20
0
−20
5577.3390
off: 0.08
sig: 0.005
1500
1000
500
0
−500
5889.9500
off: 0.10
sig: 0.038
100
80
60
40
20
0
−20
−40
5895.9240
off: 0.10
sig: 0.057
60
40
20
0
−20

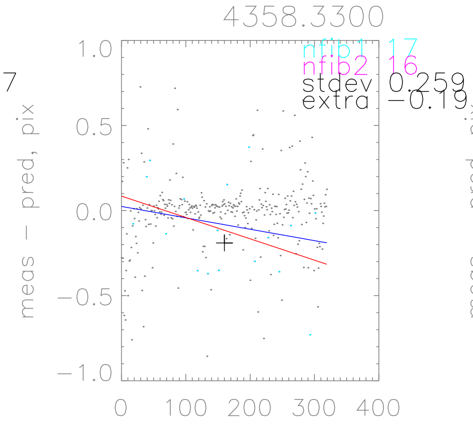

shift(pix)= 0.347
err(pix)= 0.351
oldshift(pix)=−0.225
30
20
10
0
−10
−20
4020
4030
4040
4050
4060
4070
4080

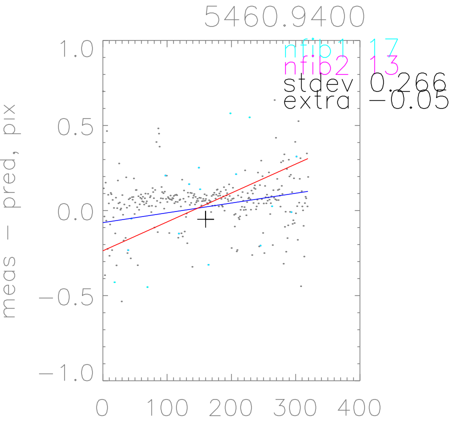

shift(pix)=−0.190
err(pix)= 0.112
oldshift(pix)=−0.099
30
20
10
0
−10
−20
4280
4300
4320
4340
4360
4380
4400
4420

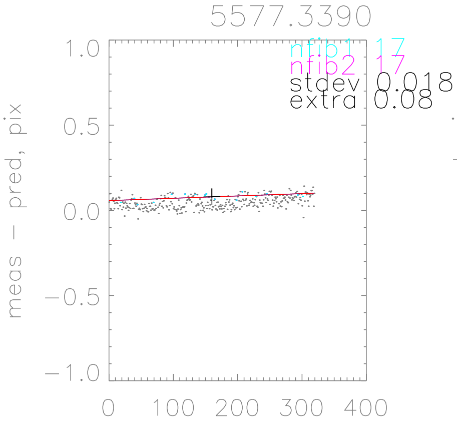

shift(pix)=−0.051
err(pix)= 0.065
oldshift(pix)= 0.065
30
20
10
0
−10
−20
5430
5440
5450
5460
5470
5480
5490

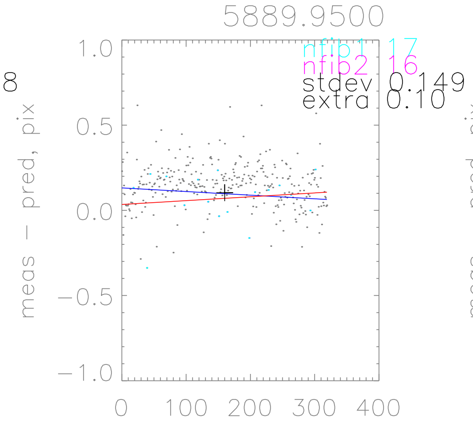

4046.5600
4358.3300
5460.9400
5577.3390
5889.9500
5895.9240
meas − arc
0
100
200
300
400

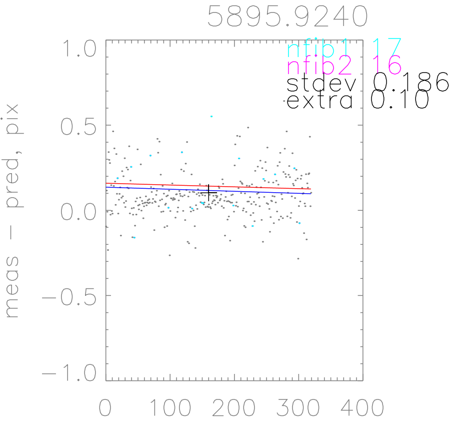

4046.5600
nfib1 17
nfib2 9
stdev 0.467
extra 0.35
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

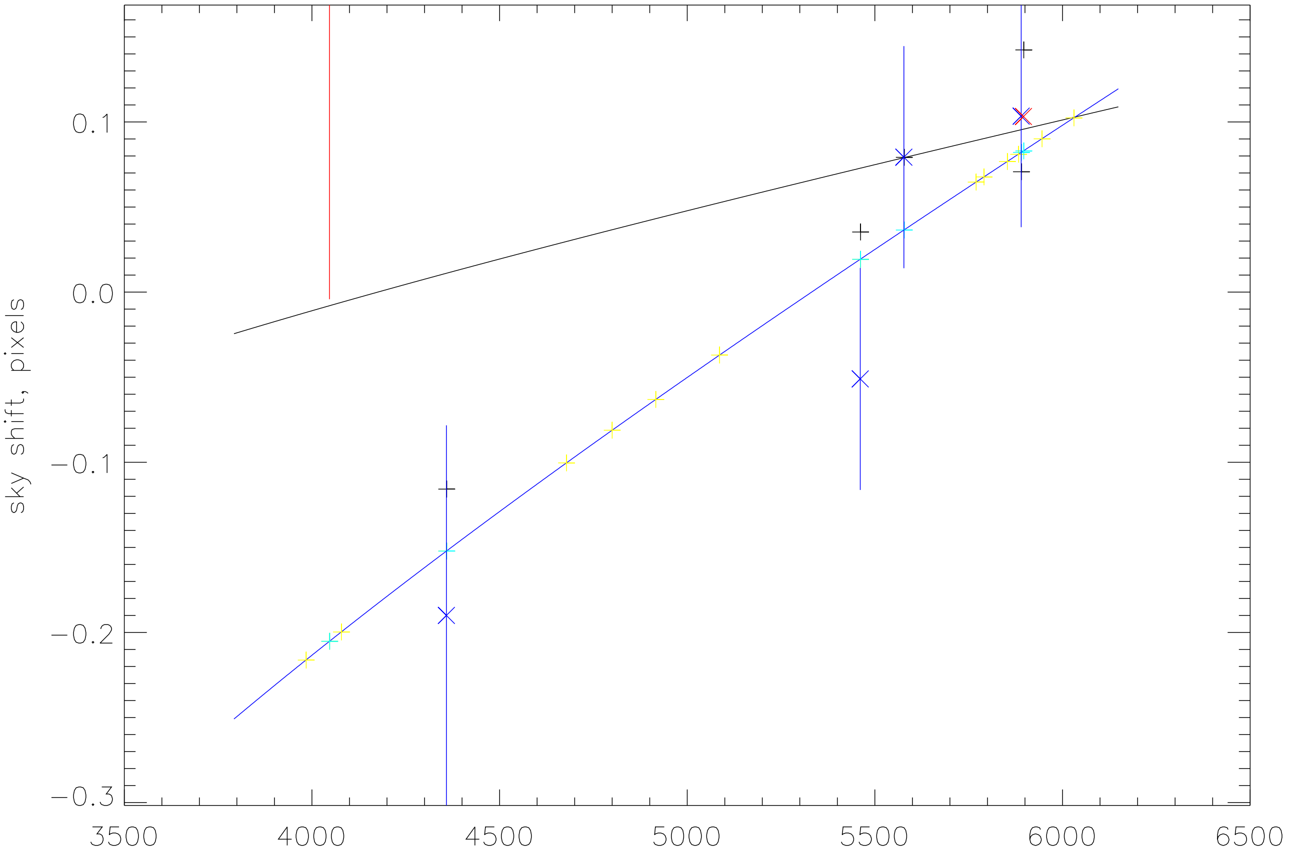

4358.3300
nfib1 17
nfib2 16
stdev 0.259
extra −0.19
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

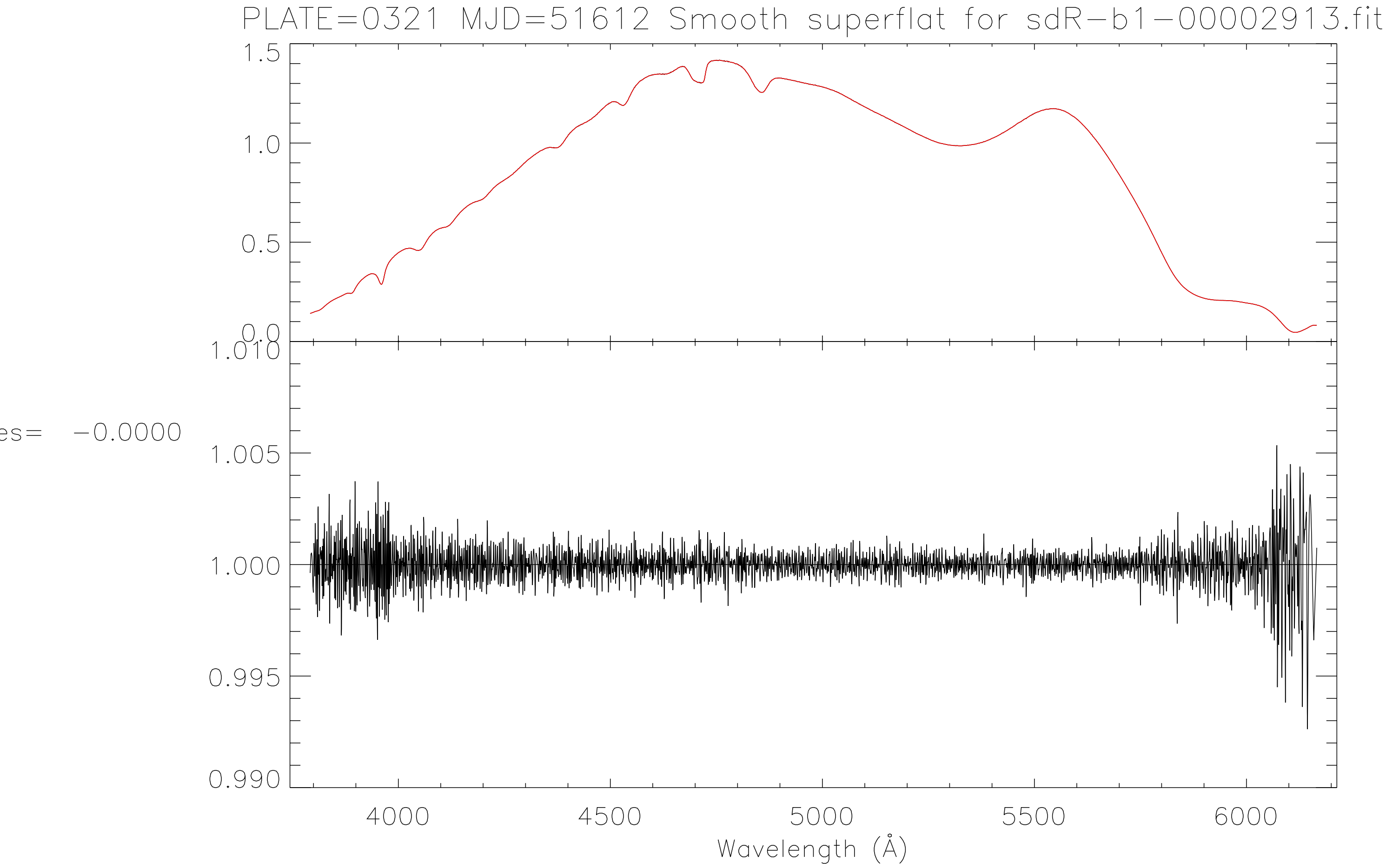

5460.9400
nfib1 17
nfib2 13
stdev 0.266
extra −0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

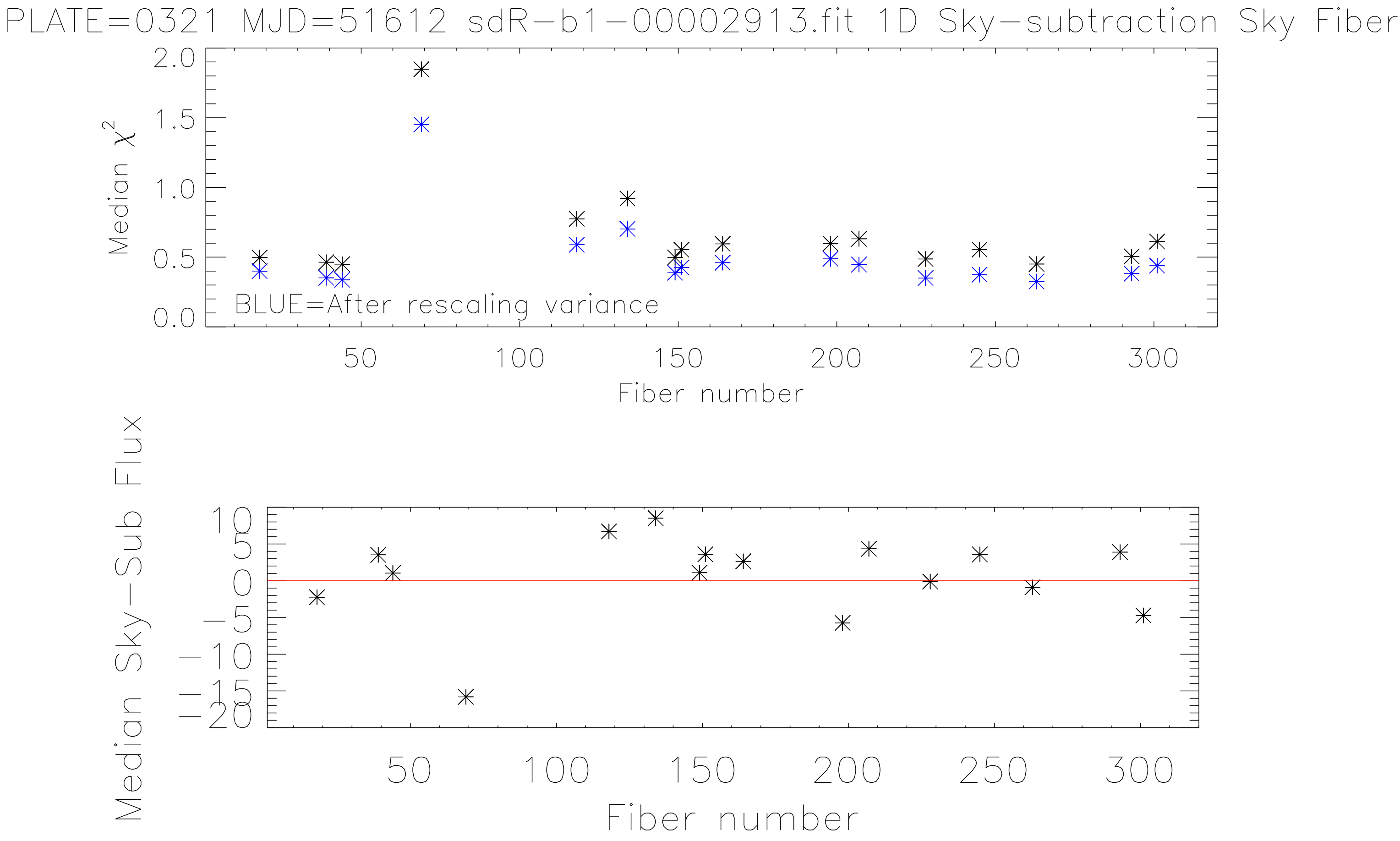

5577.3390
nfib1 17
nfib2 17
stdev 0.018
extra 0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

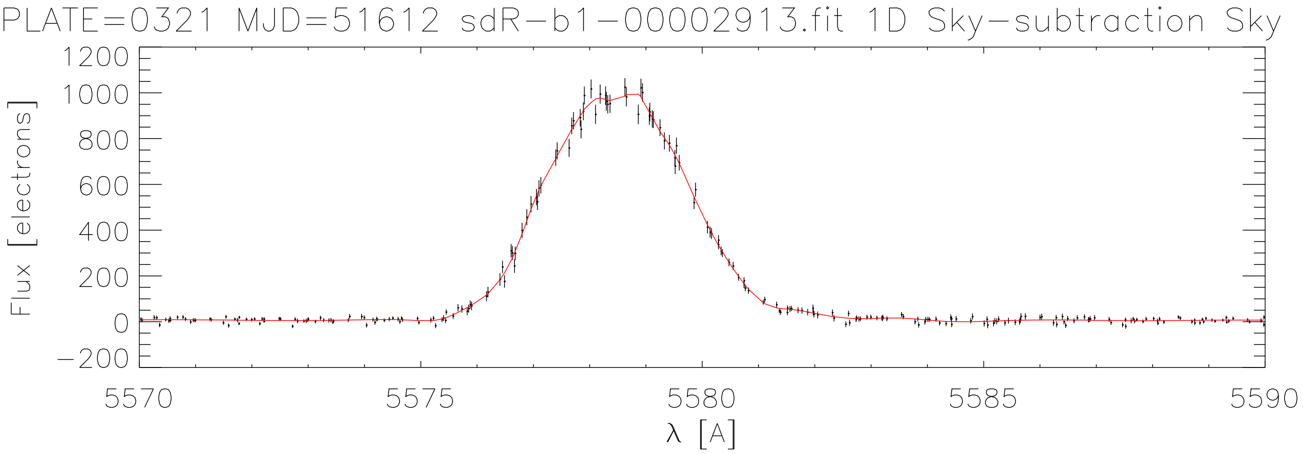

5889.9500
nfib1 17
nfib2 16
stdev 0.149
extra 0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

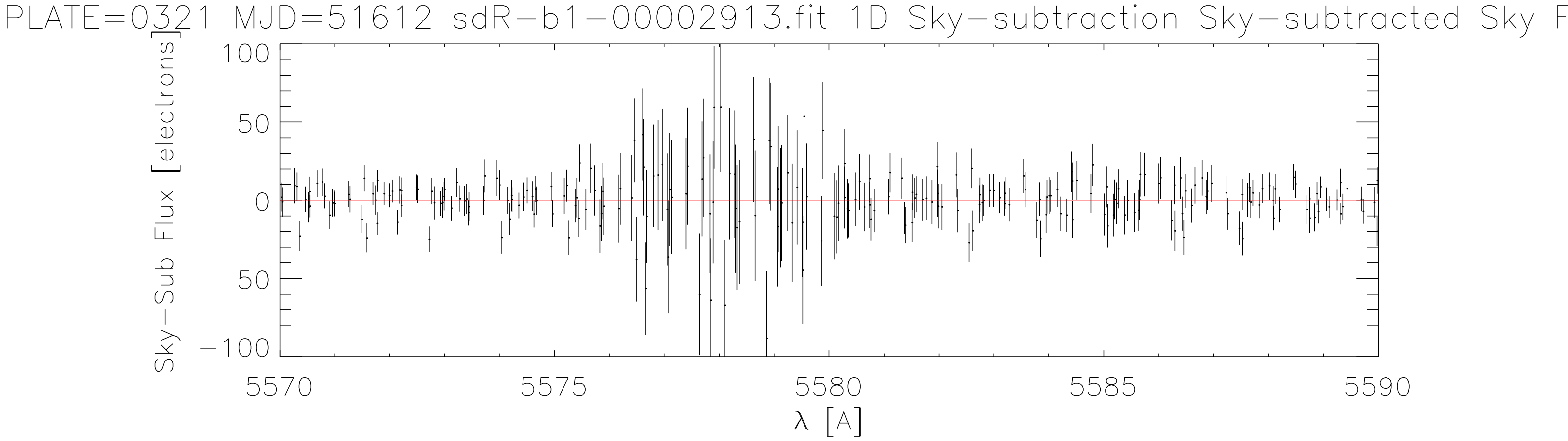

5895.9240
nfib1 17
nfib2 16
stdev 0.186
extra 0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

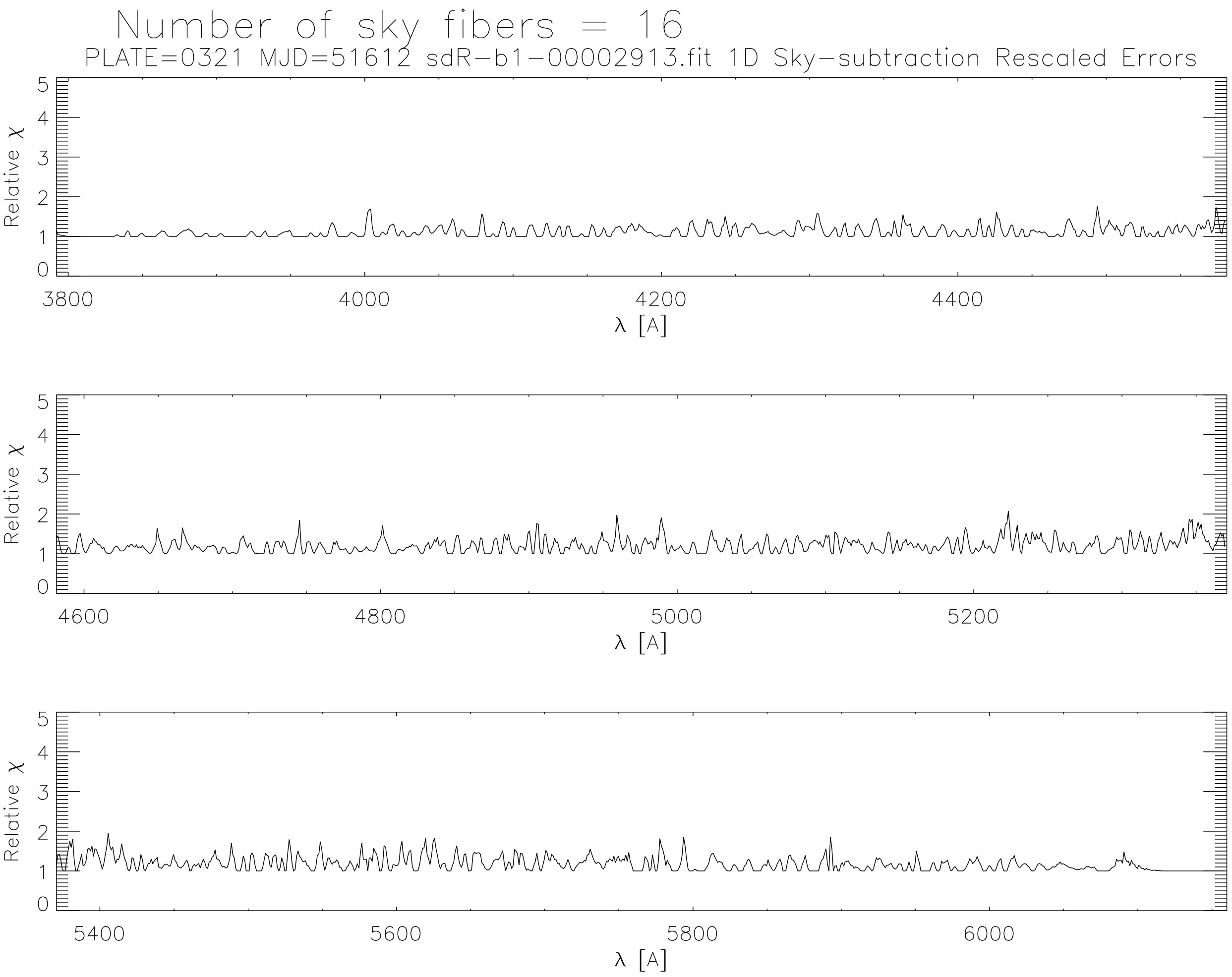

sky shift, pixels
0.1
0.0
−0.1
−0.2
−0.3
3500
4000
4500
5000
5500
6000
6500


PLATE=0321 MJD=51612 Smooth superflat for sdR-b1-00002913.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)


PLATE=0321 MJD=51612 sdR-b1-00002913.fit 1D Sky-subtraction Sky Fiber
Median χ^2
2.0
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
-20
50
100
150
200
250
300
Fiber number


PLATE=0321 MJD=51612 sdR-b1-00002913.fit 1D Sky-subtraction Sky Fibers

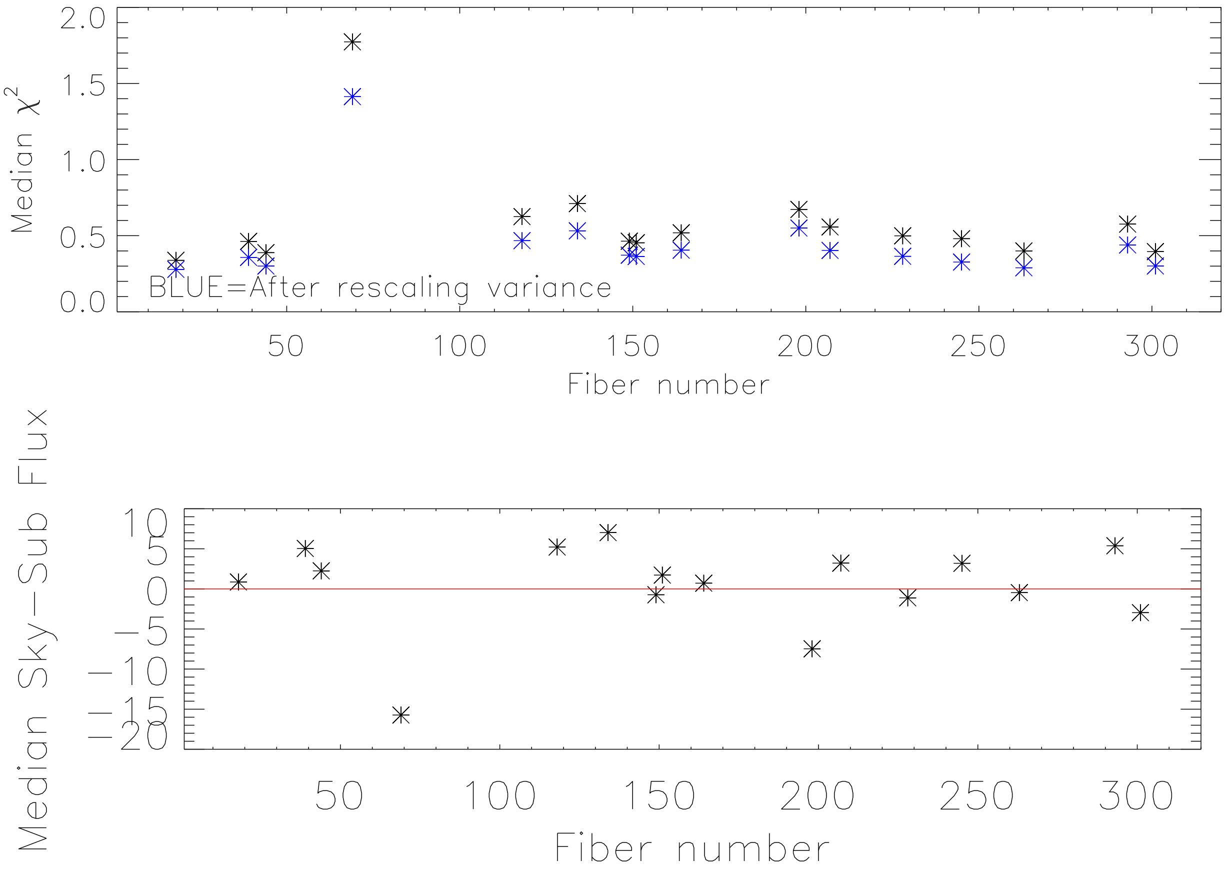

PLATE=0321 MJD=51612 sdR-b1-00002913.fit 1D Sky-subtraction Sky-subtracted Sky F



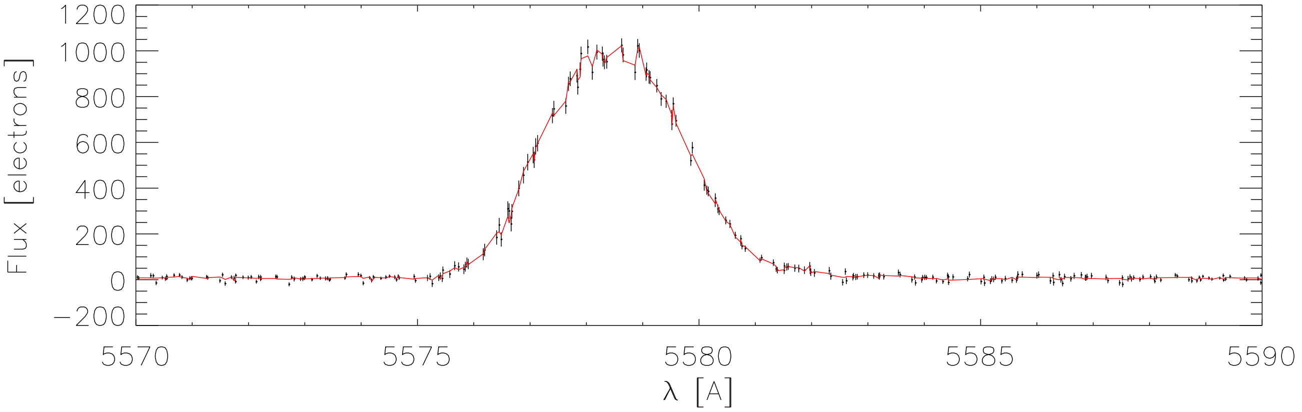
Number of sky fibers = 16

PLATE=0321 MJD=51612 sdR-b1-00002913.fit 1D Sky-subtraction Rescaled Errors

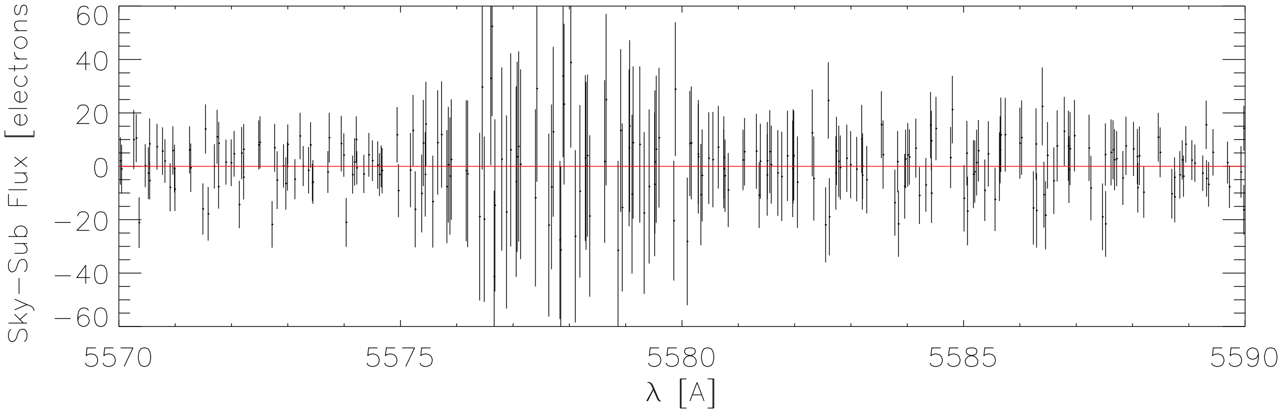
PLATE=0321 MJD=51612 sdR-b1-00002913.fit 2D Sky-subtraction Sky Fiber

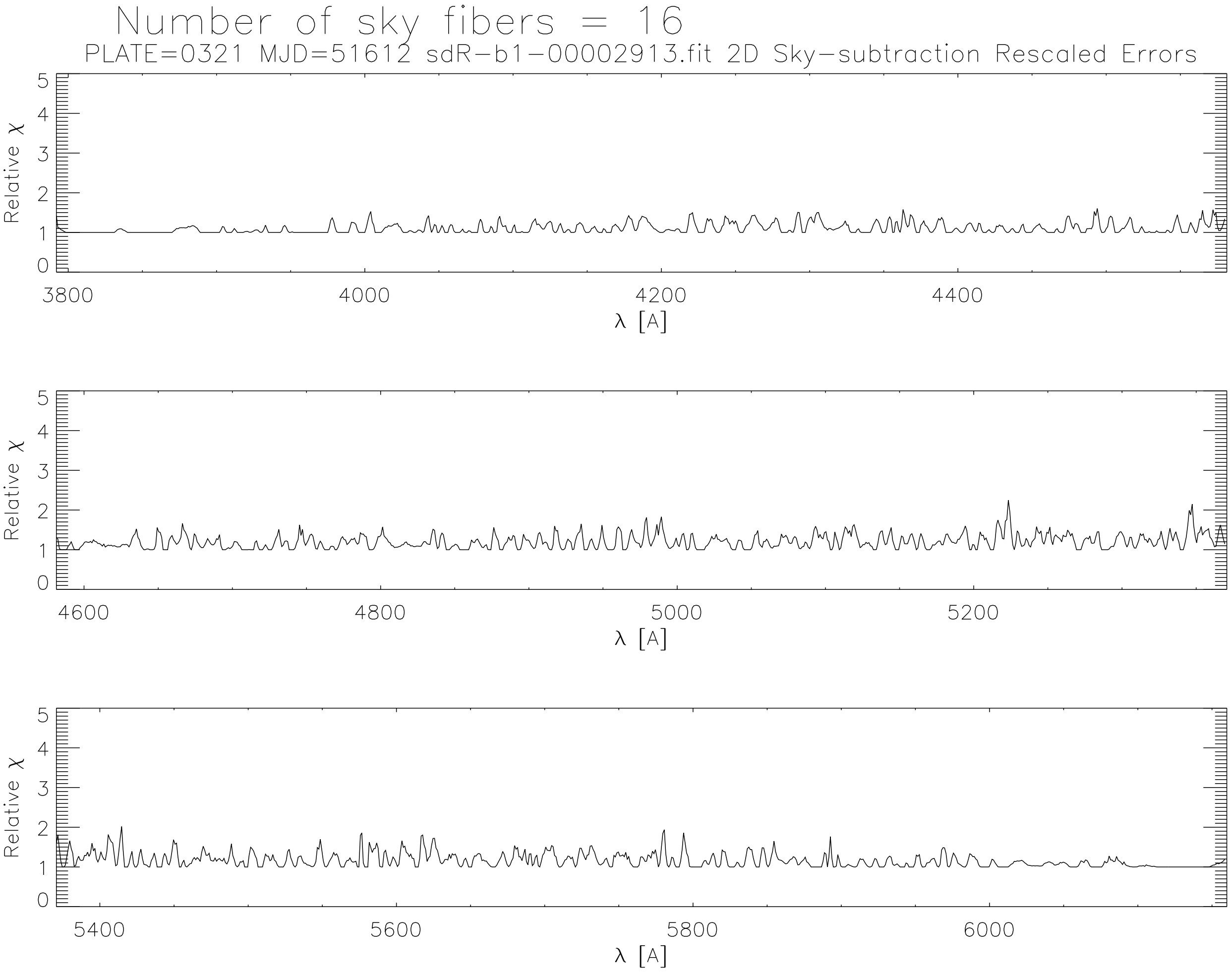


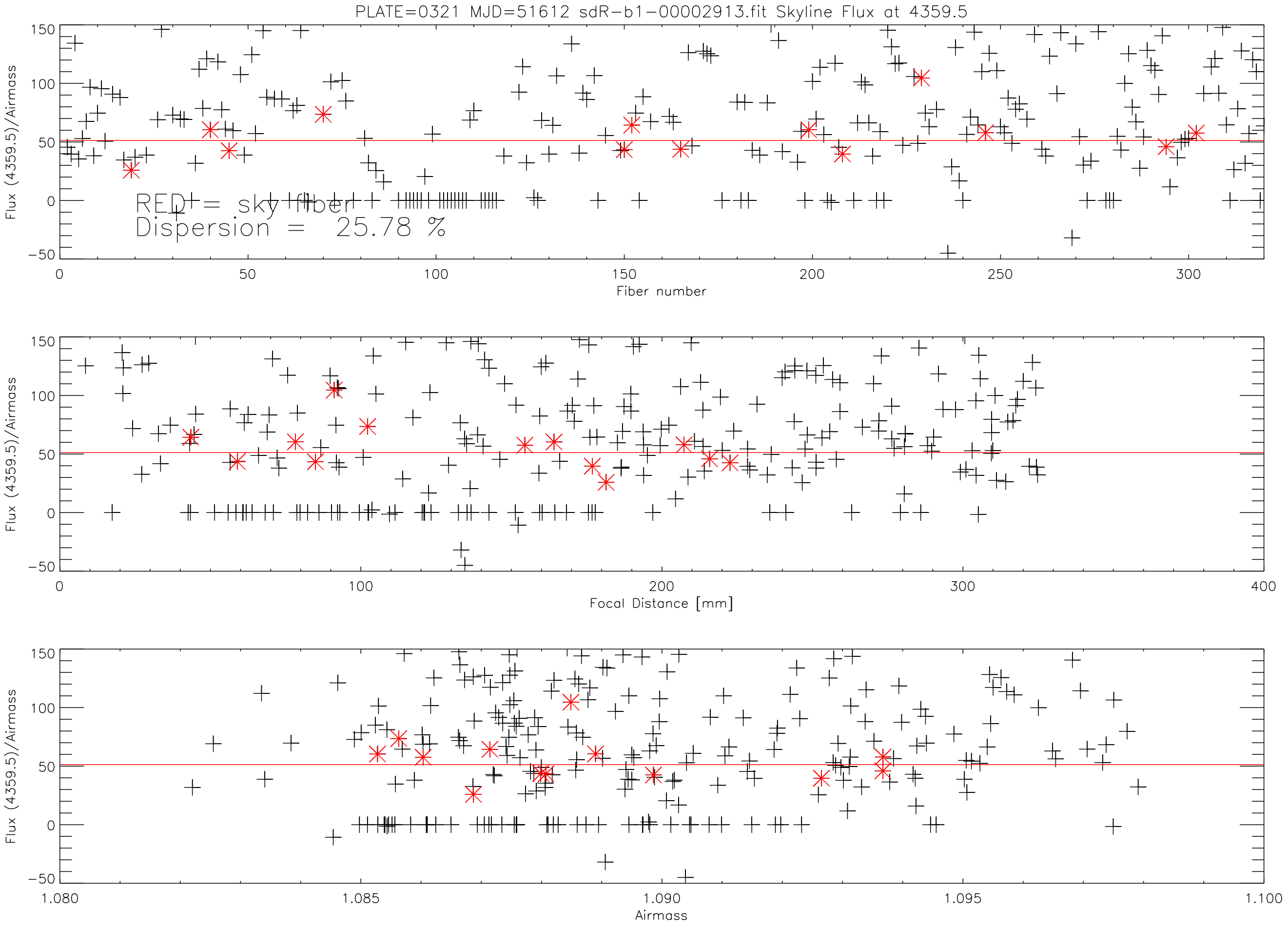
PLATE=0321 MJD=51612 sdR-b1-00002913.fit 2D Sky-subtraction Sky Fibers

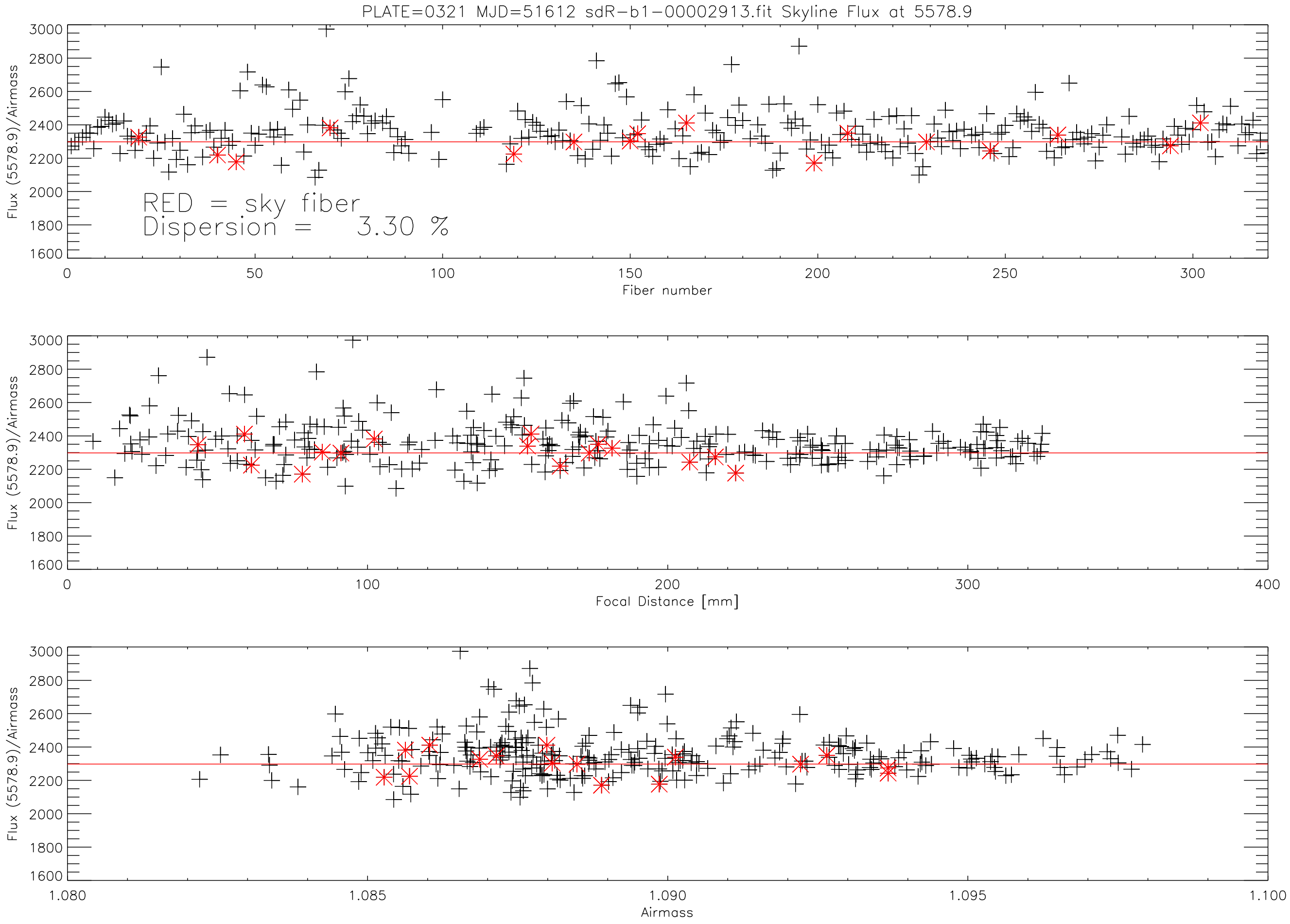


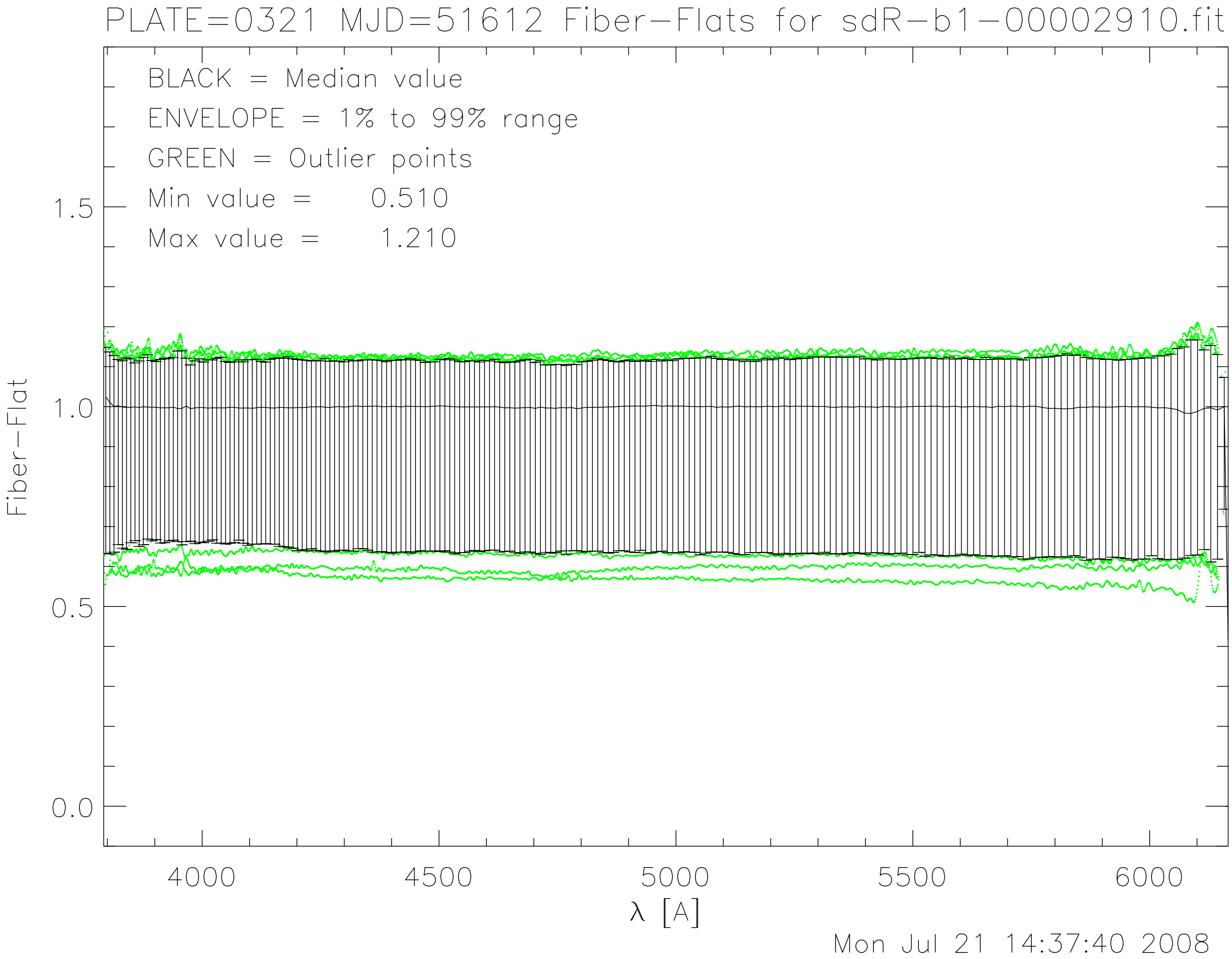
PLATE=0321 MJD=51612 sdR-b1-00002913.fit 2D Sky-subtraction Sky-subtracted Sky F

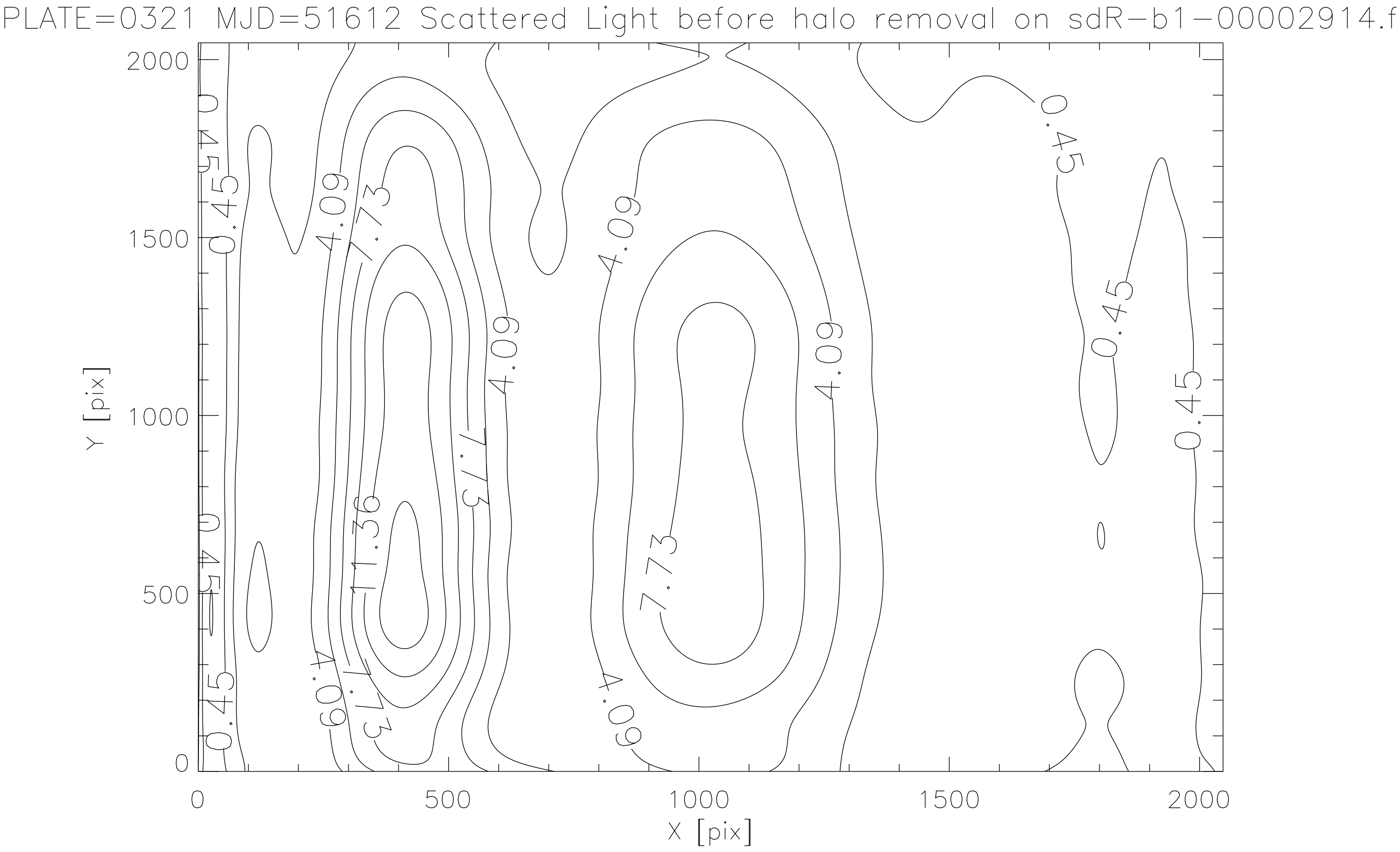



Number of sky fibers = 16
PLATE=0321 MJD=51612 sdR-b1-00002913.fit 2D Sky-subtraction Rescaled Errors
Relative χ
0
1
2
3
4
5
3800
4000
4200
4400
λ [A]
4600
4800
5000
5200
5400
5600
5800
6000

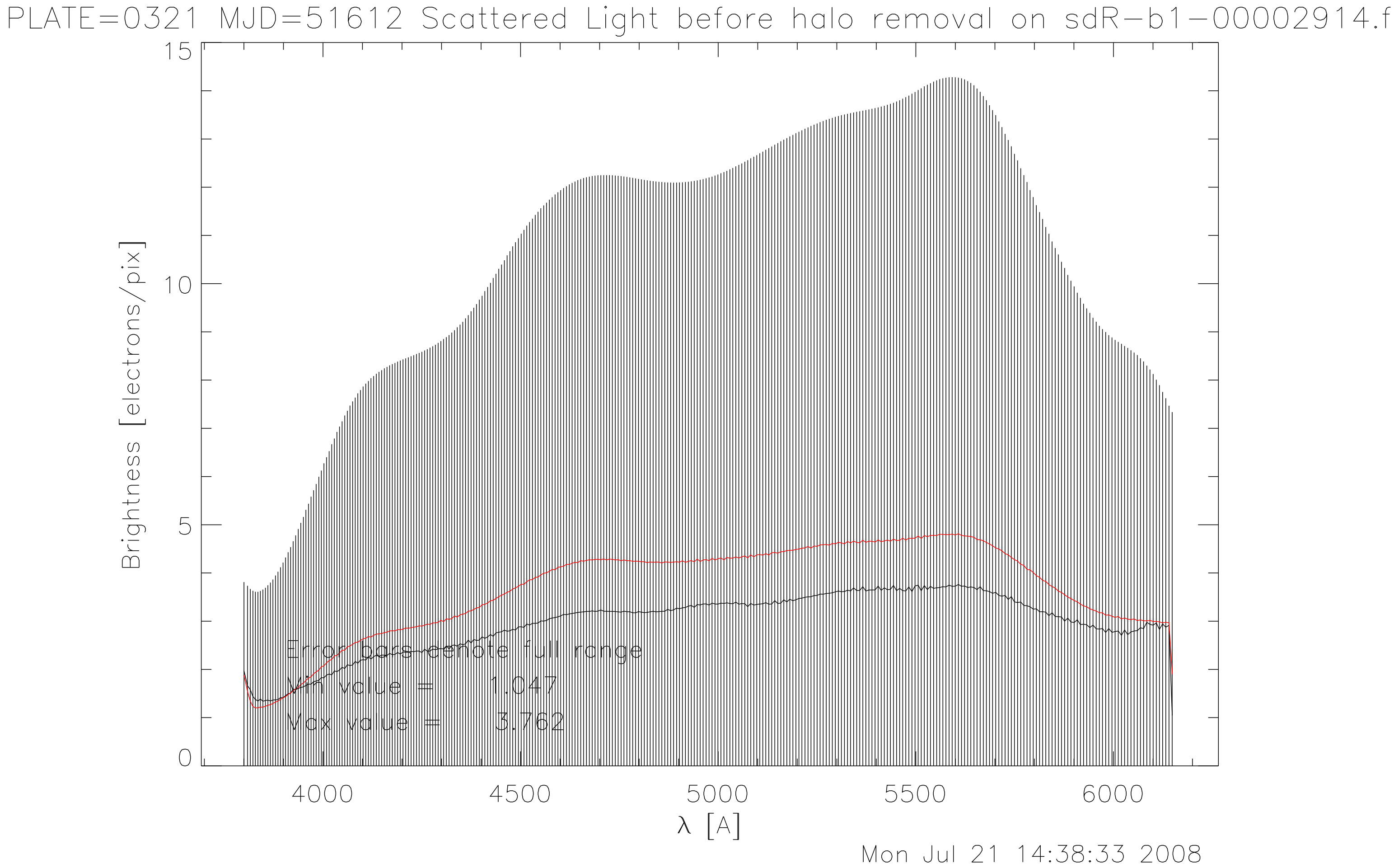

PLATE=0321 MJD=51612 sdR-b1-00002913.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
150
100
50
0
-50
0
50
100
150
200
250
300
Fiber number
RED = sky fiber
Dispersion = 25.78 %
Flux (4359.5)/Airmass
150
100
50
0
-50
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
150
100
50
0
-50
1.080
1.085
1.090
1.095
1.100
Airmass

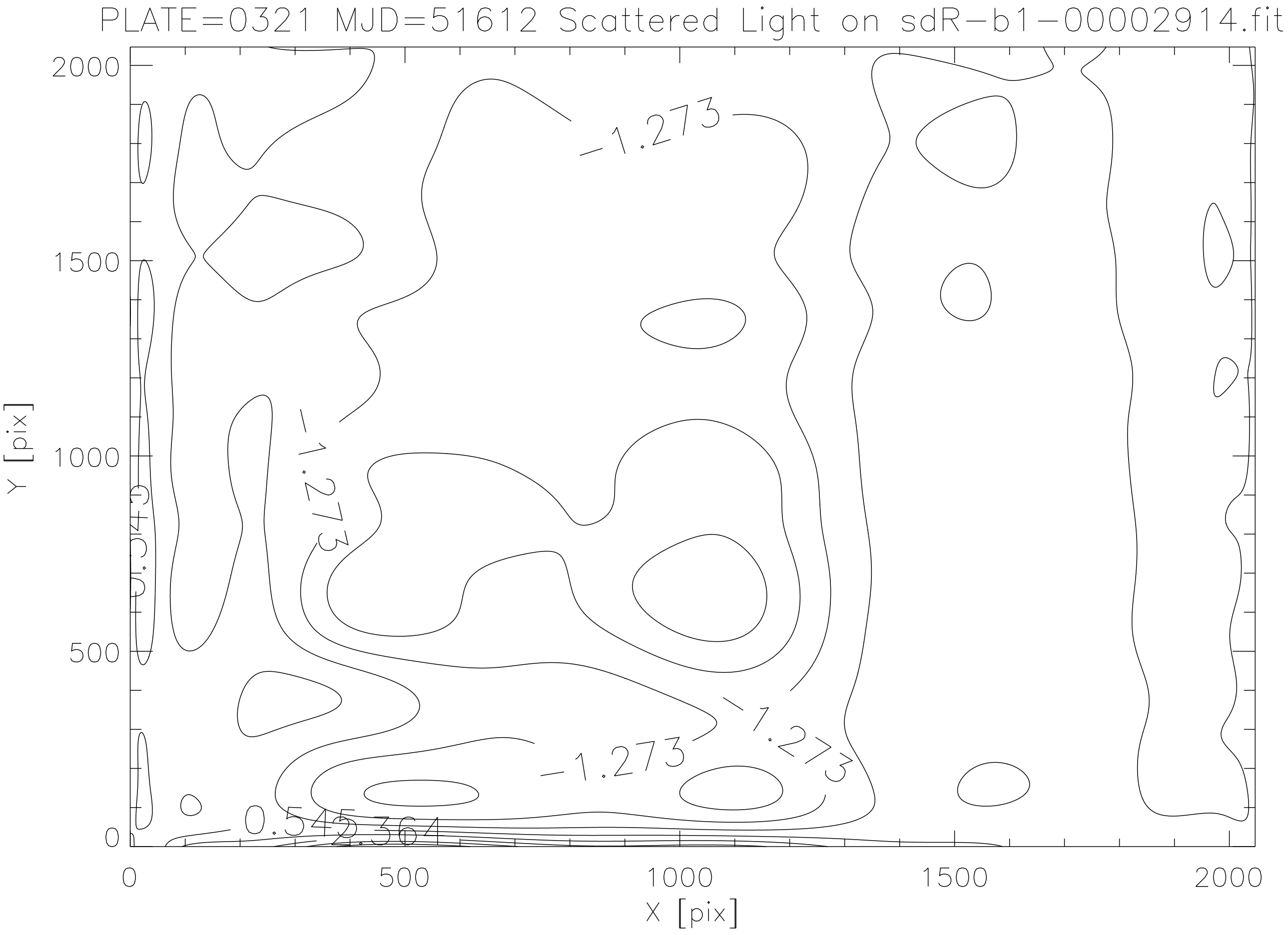

PLATE=0321 MJD=51612 sdR-b1-00002913.fit Skyline Flux at 5578.9
RED = sky fiber
Dispersion = 3.30 %
Flux (5578.9)/Airmass
3000
2800
2600
2400
2200
2000
1800
1600
0
50
100
150
200
250
300
Fiber number
Focal Distance [mm]
0
100
200
300
400
Airmass
1.080
1.085
1.090
1.095
1.100

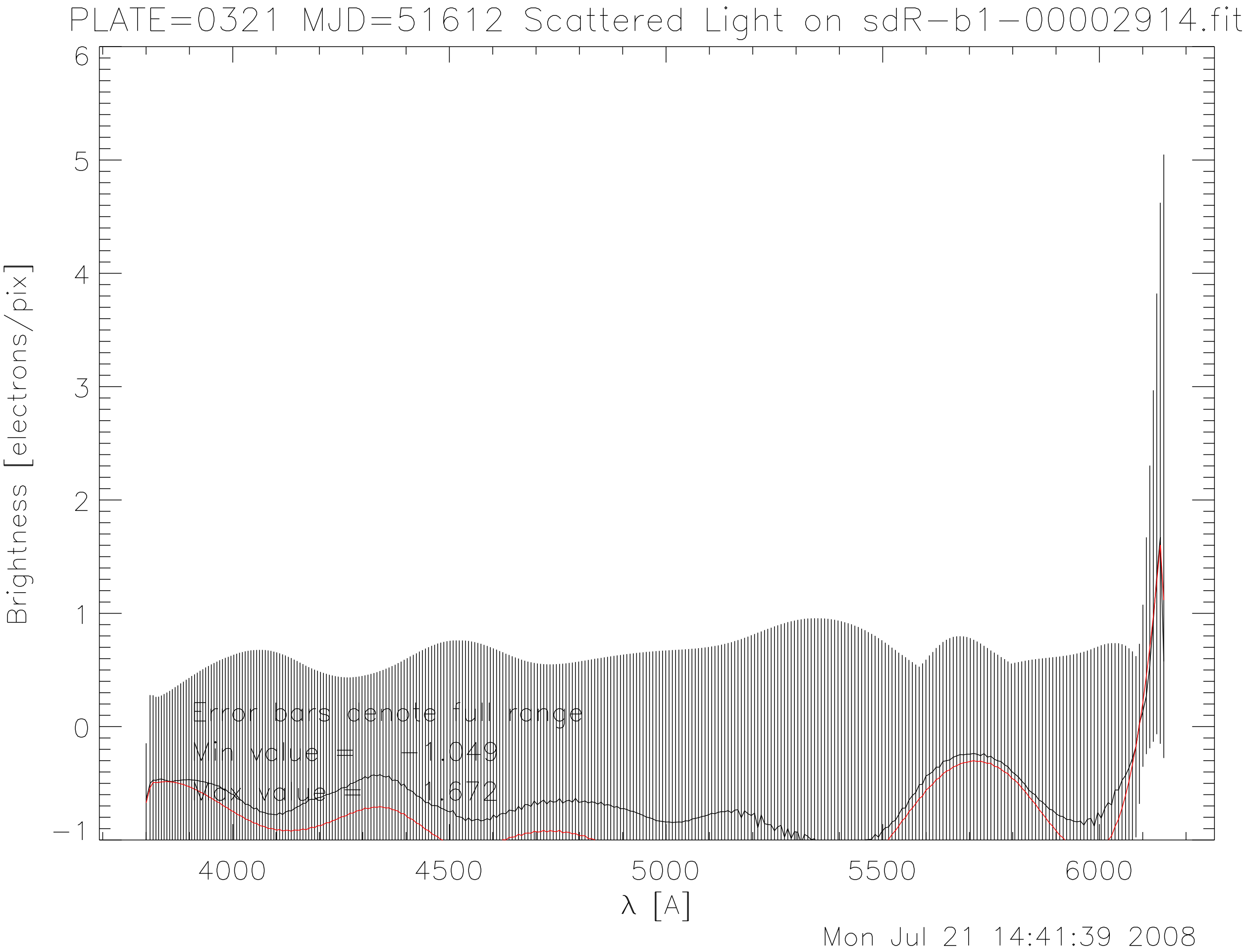

PLATE=0321 MJD=51612 Fiber−Flats for sdR−b1−00002910.fit
BLACK = Median value
ENVELOPE = 1% to 99% range
GREEN = Outlier points
Min value = 0.510
Max value = 1.210
Fiber−Flat
0.0
0.5
1.0
1.5
4000
4500
5000
5500
6000
λ [A]
Mon Jul 21 14:37:40 2008

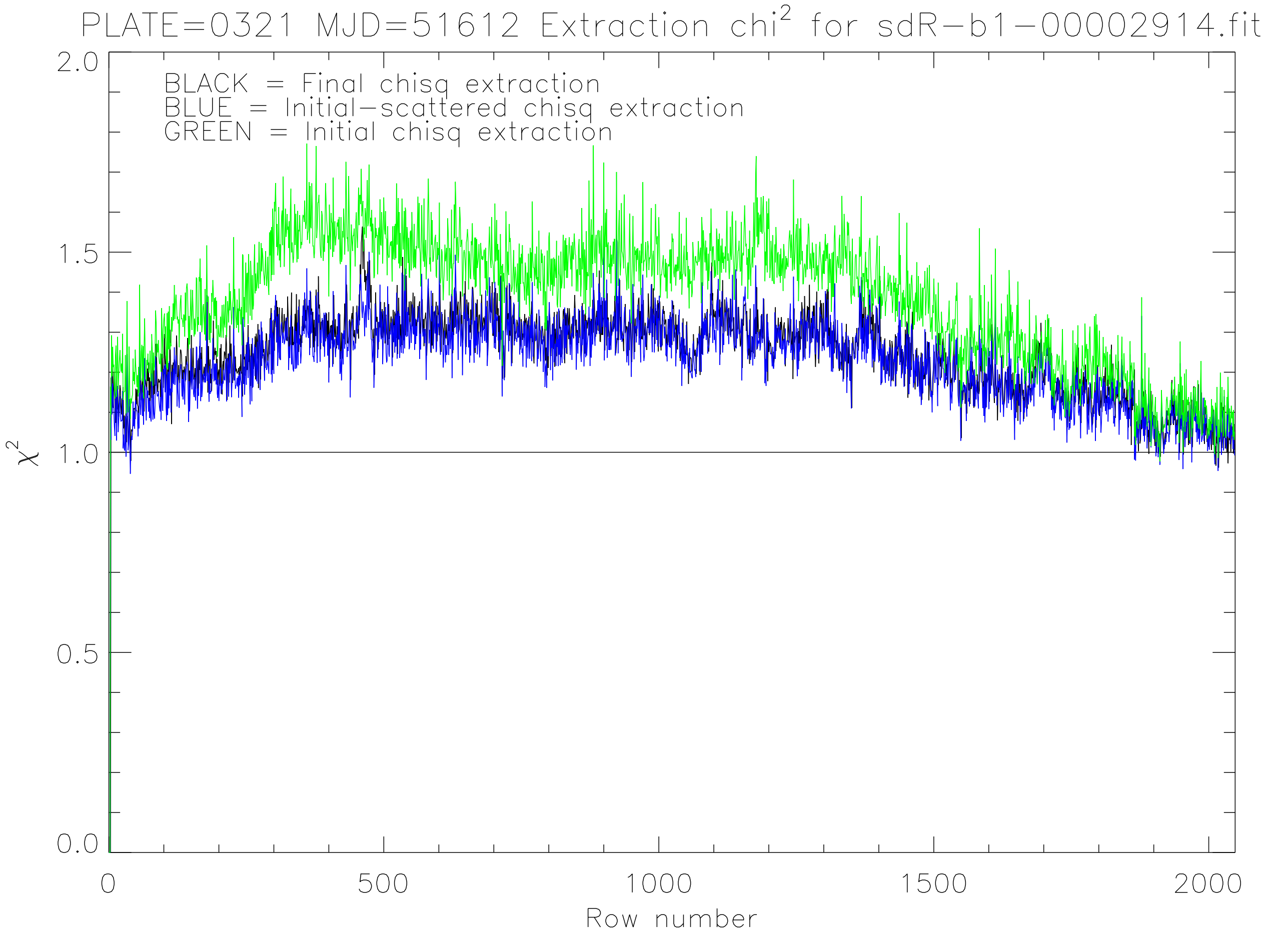


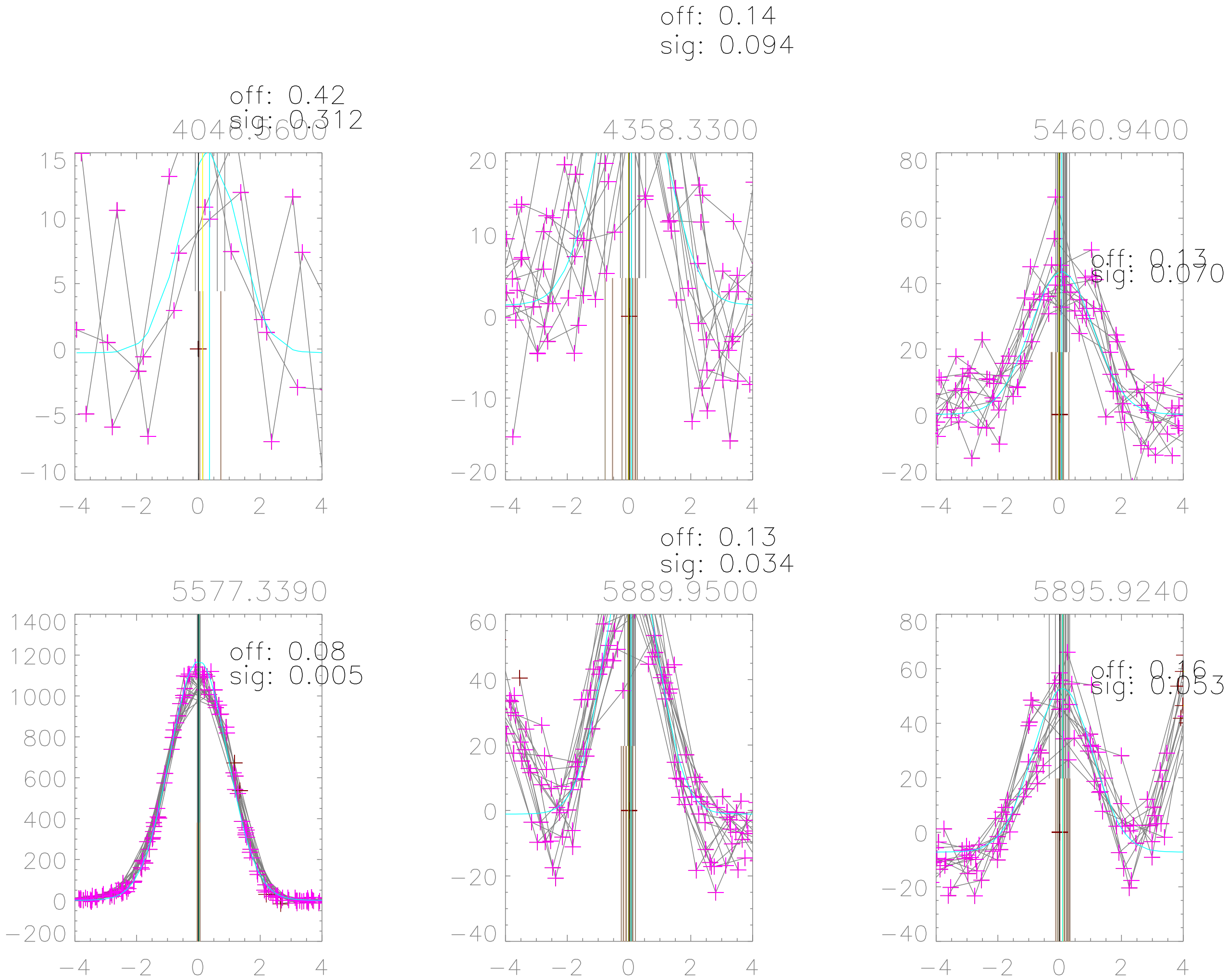
PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002914.f

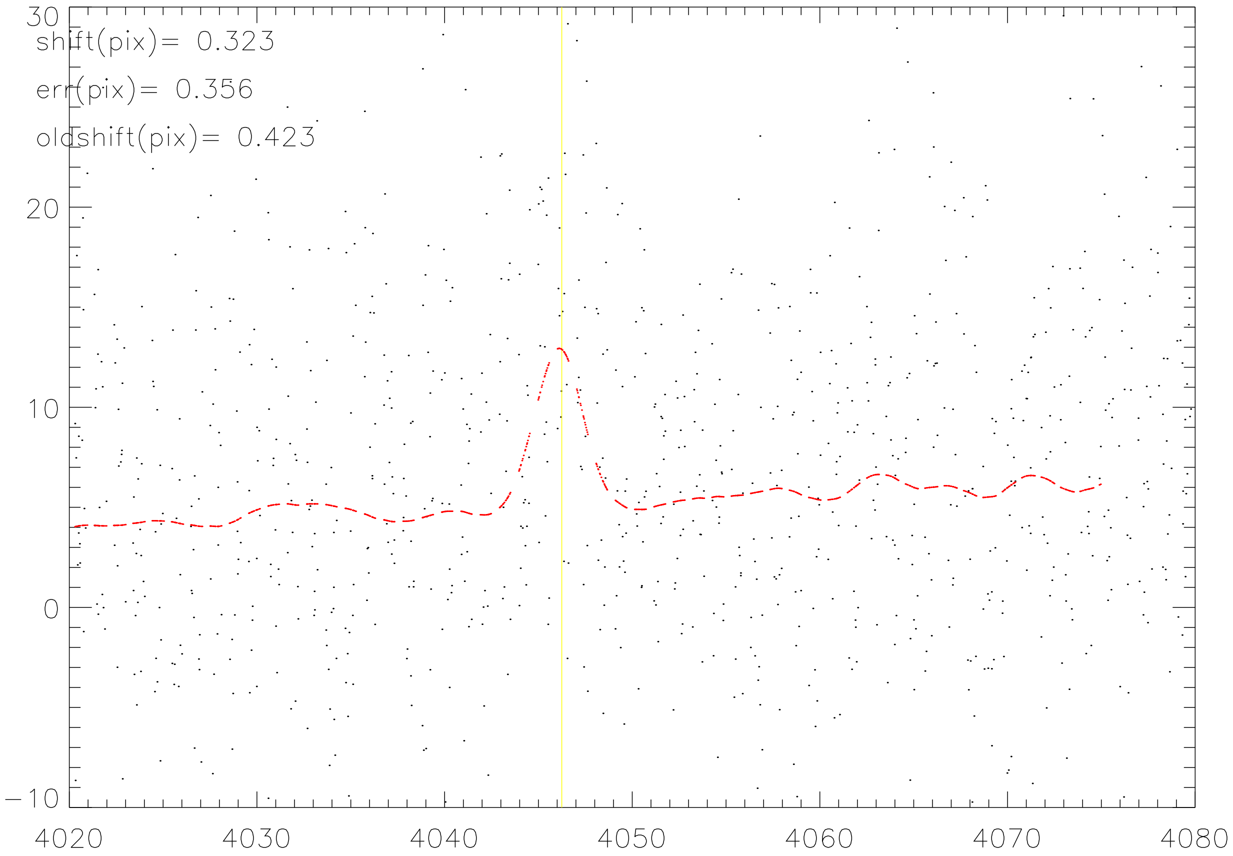

PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002914.f
Brightness [electrons/pix]
0
5
10
15
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 1.047
Max value = 3.762
Mon Jul 21 14:38:33 2008

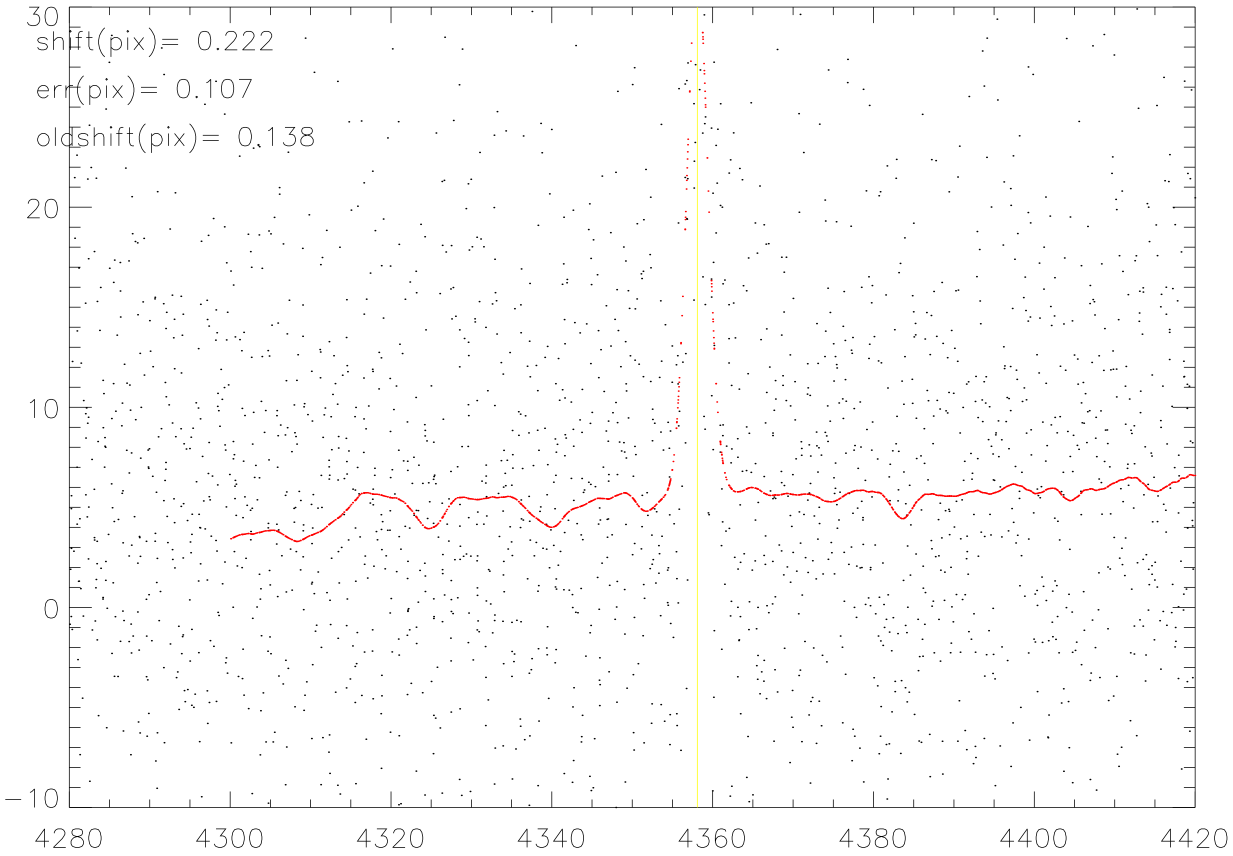

PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002914.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0
500
1000
1500
2000
-1.273
-1.273
-1.273
-1.273
0.545
0.545
2.364

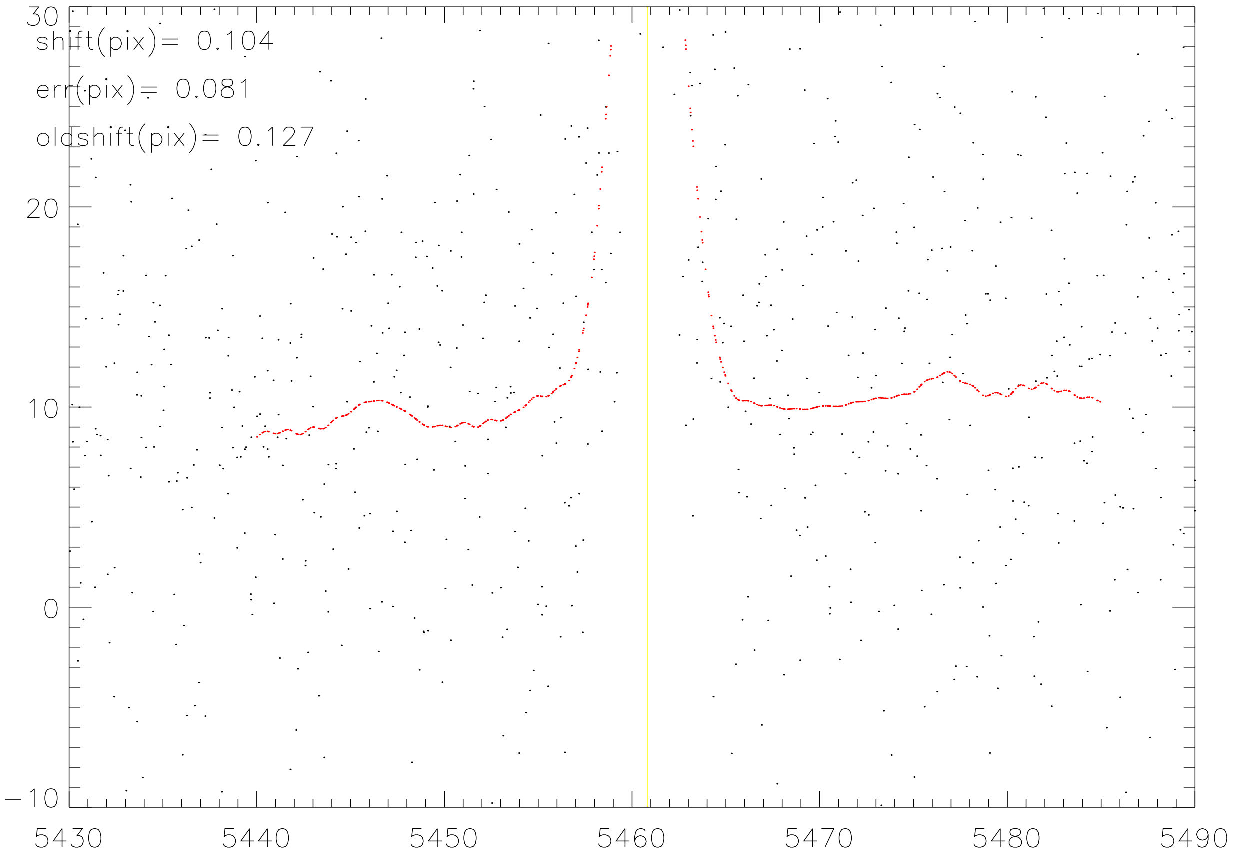

PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002914.fit
Brightness [electrons/pix]
λ [A]
6
5
4
3
2
1
0
−1
4000
4500
5000
5500
6000
Error bars denote full range
Min value = −1.049
Max value = 1.672
Mon Jul 21 14:41:39 2008

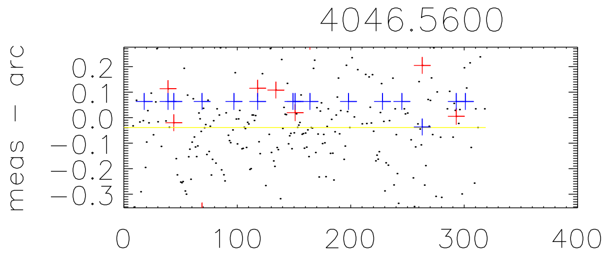

PLATE=0321 MJD=51612 Extraction chi^2 for sdR-b1-00002914.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0.0
0.5
1.0
1.5
2.0
0
500
1000
1500
2000
Row number

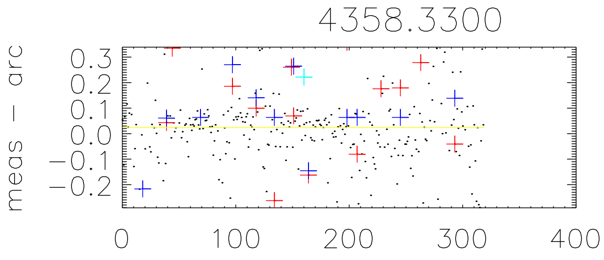

off: 0.42
sig: 0.312
4046.5600
15
10
5
0
−5
−10
−4
−2
0
2
4
off: 0.14
sig: 0.094
4358.3300
20
10
0
−10
−20
−4
−2
0
2
4
5460.9400
off: 0.13
sig: 0.070
80
60
40
20
0
−20
−4
−2
0
2
4
5577.3390
off: 0.08
sig: 0.005
1400
1200
1000
800
600
400
200
0
−200
−4
−2
0
2
4
off: 0.13
sig: 0.034
5889.9500
60
40
20
0
−20
−40
−4
−2
0
2
4
5895.9240
off: 0.16
sig: 0.053
80
60
40
20
0
−20
−40
−4
−2
0
2
4

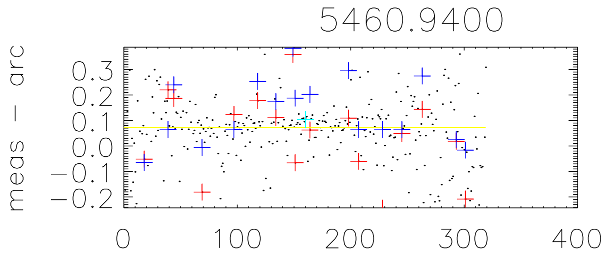

shift(pix)= 0.323
err(pix)= 0.356
oldshift(pix)= 0.423
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

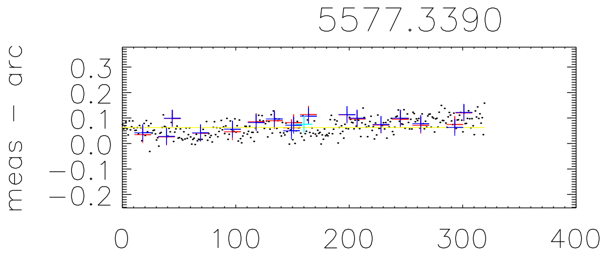

shift(pix)= 0.222
err(pix)= 0.107
oldshift(pix)= 0.138
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

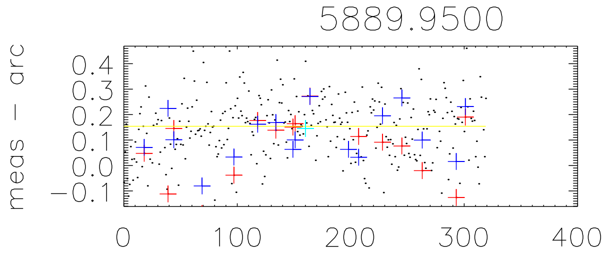

shift(pix)= 0.104
err(pix)= 0.081
oldshift(pix)= 0.127
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

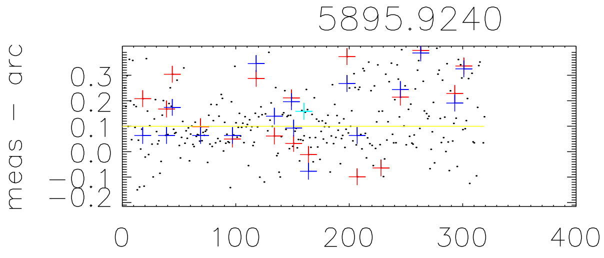

4046.5600
meas − arc
0.2
0.1
0.0
−0.1
−0.2
−0.3
0
100
200
300
400

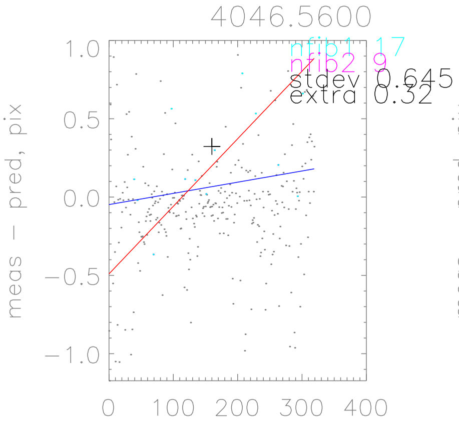

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

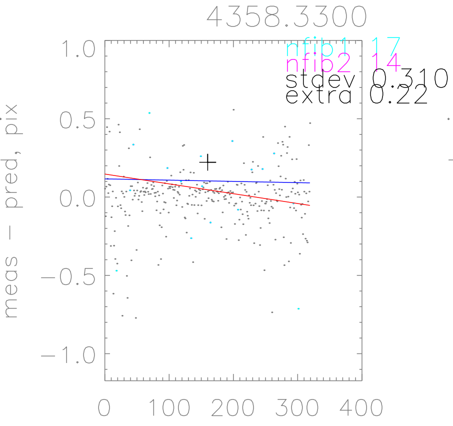

5460.9400
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

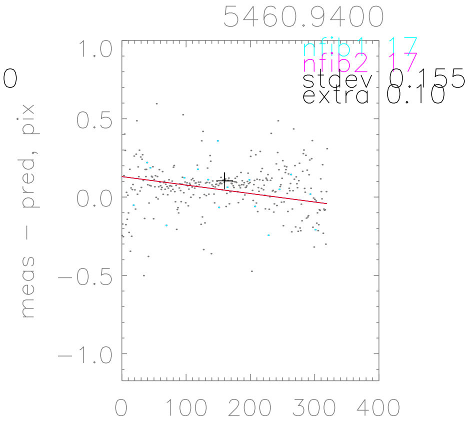

5577.3390
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

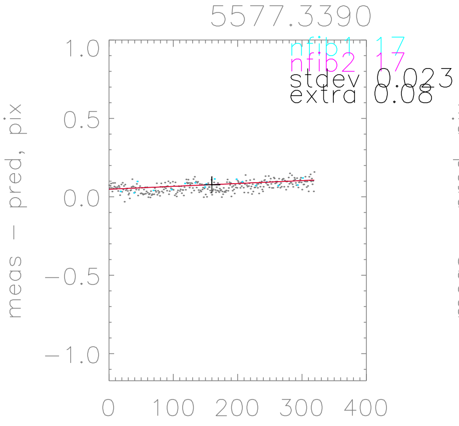

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

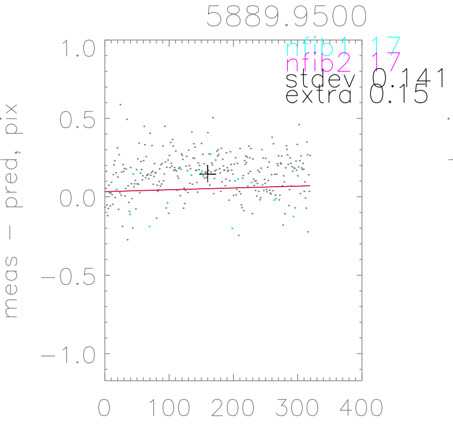

5895.9240
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

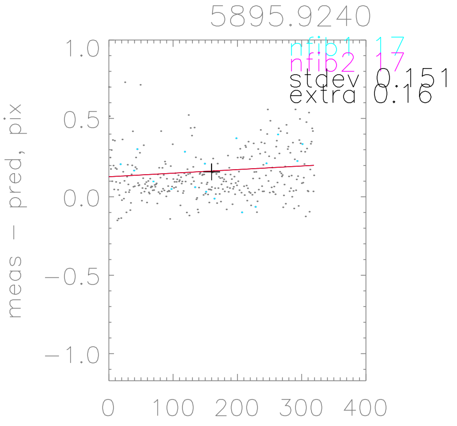

4046.5600
nfib1 17
nfib2 9
stdev 0.645
extra 0.32
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

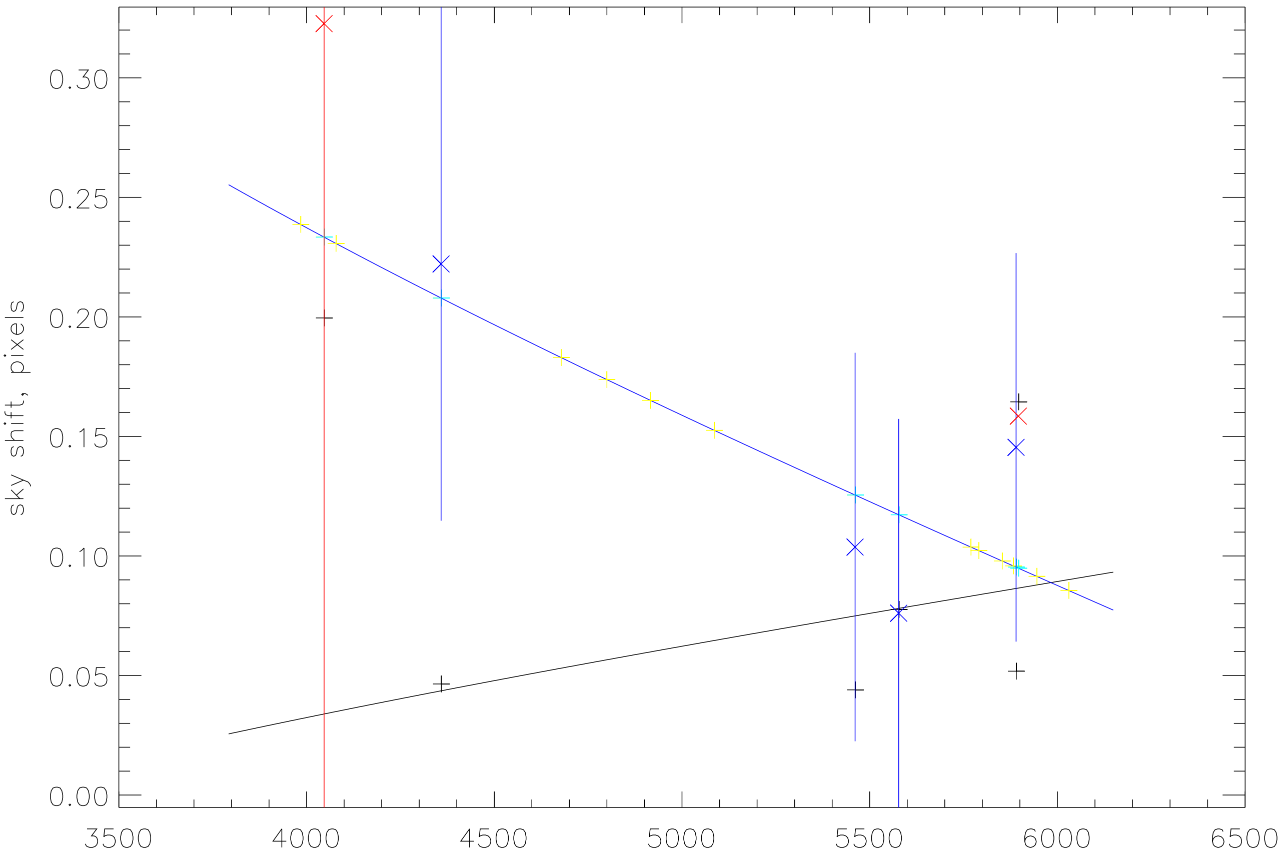

4358.3300
nfib1 17
nfib2 14
stdev 0.310
extra 0.22
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

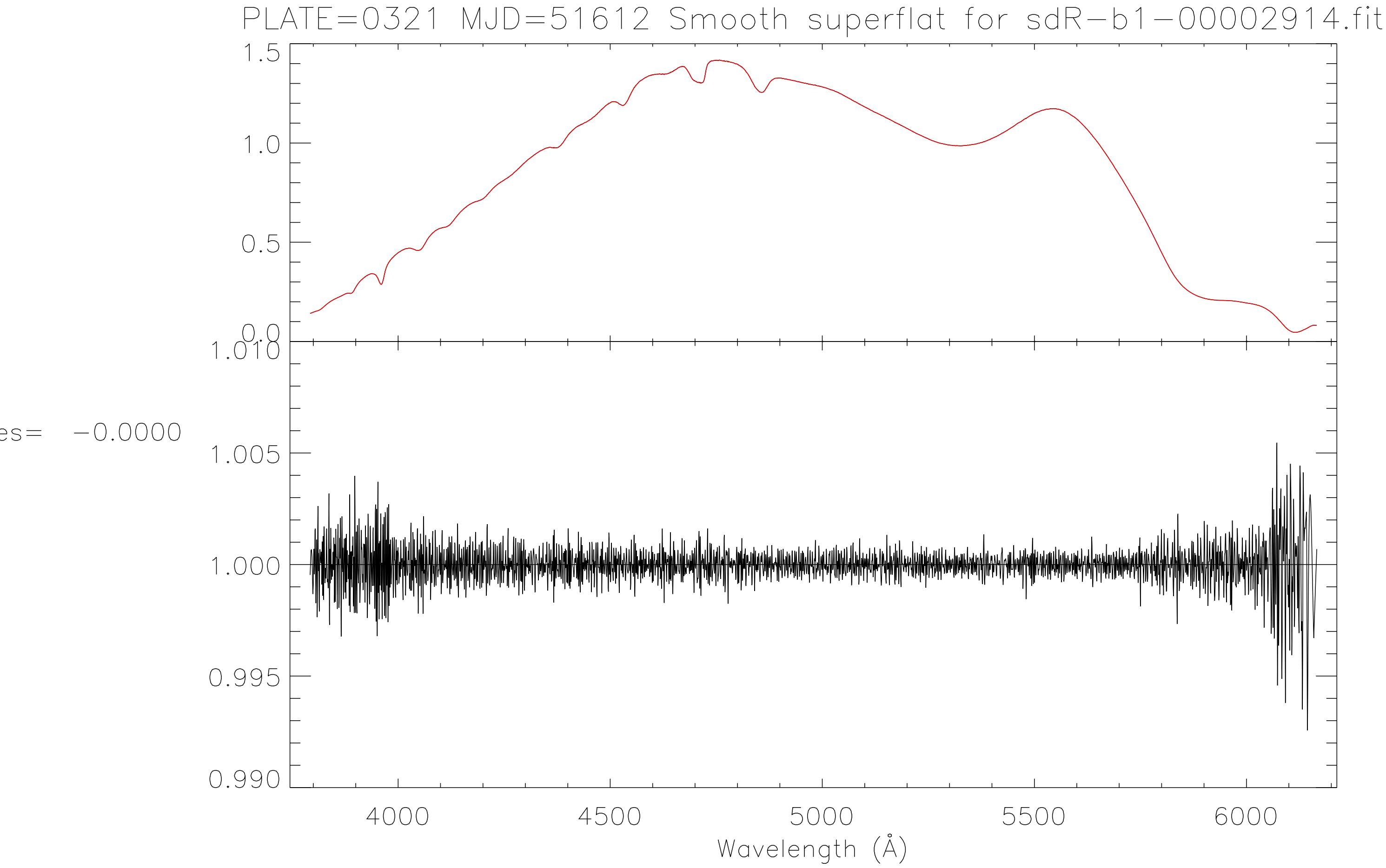

5460.9400
nfib1 17
nfib2 17
stdev 0.155
extra 0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

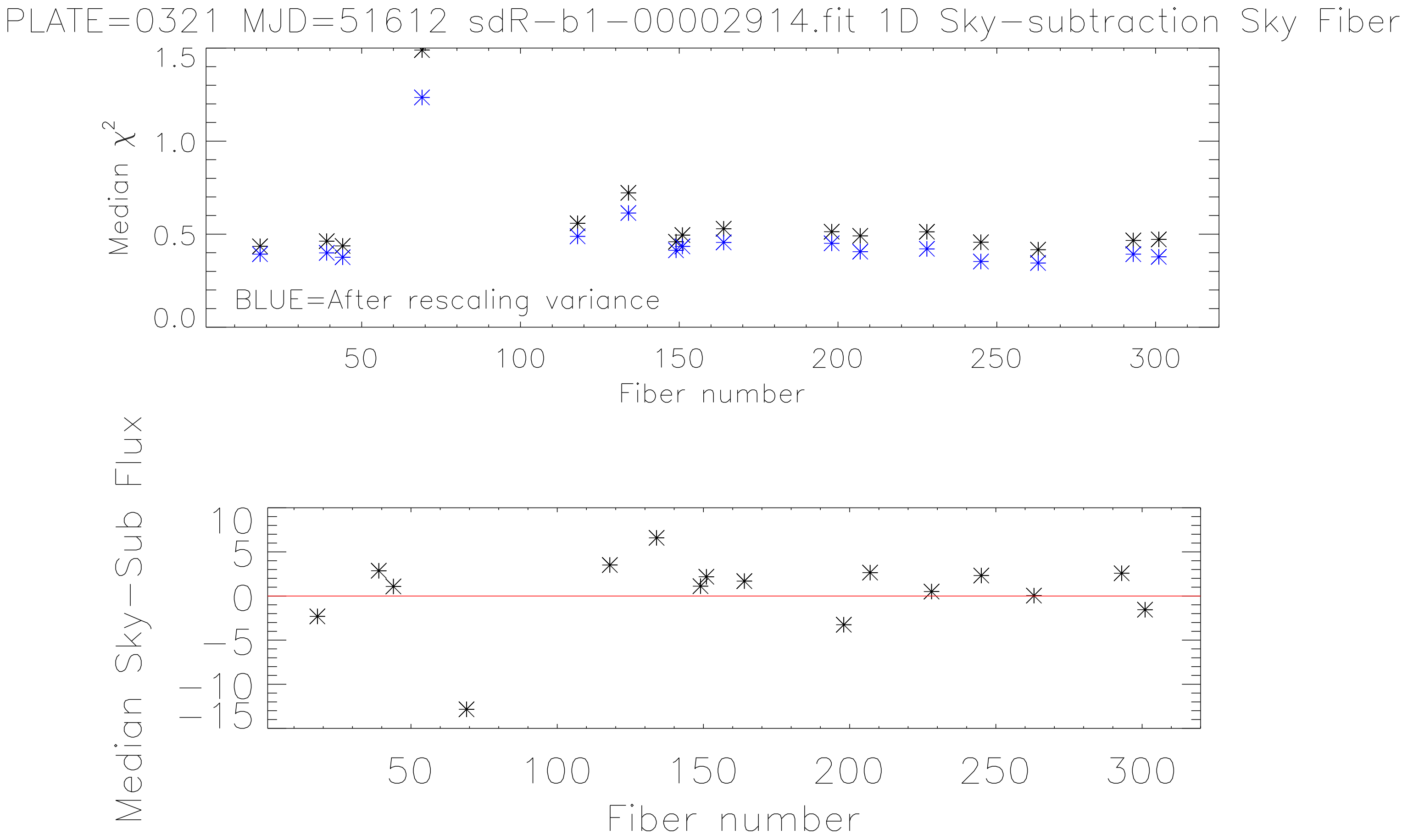

5577.3390
nfib1 17
nfib2 17
stdev 0.023
extra 0.08
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

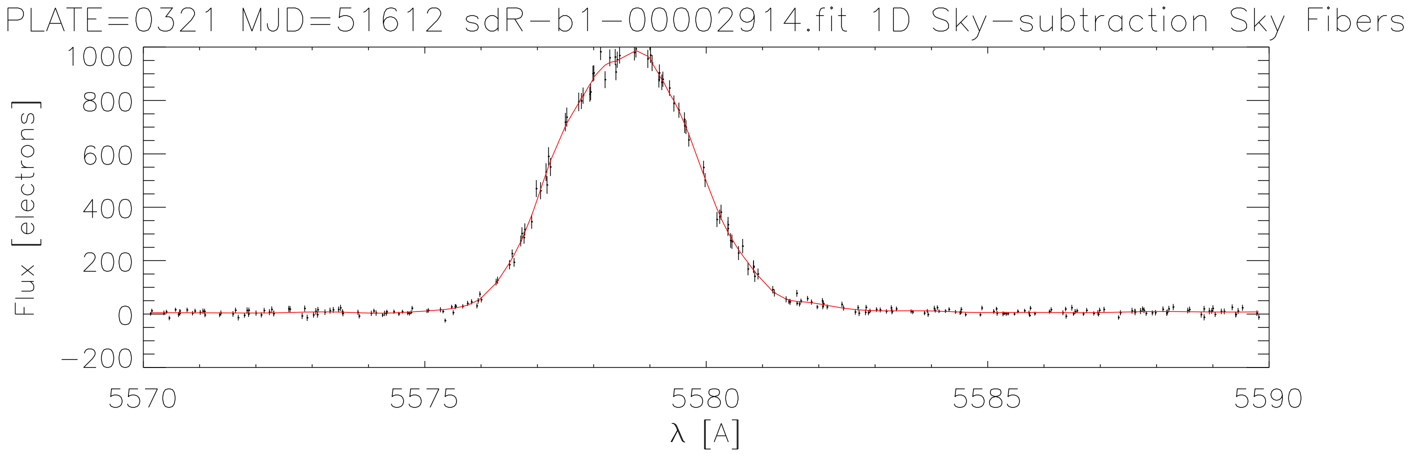

5889.9500
nfib1 17
nfib2 17
stdev 0.141
extra 0.15
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

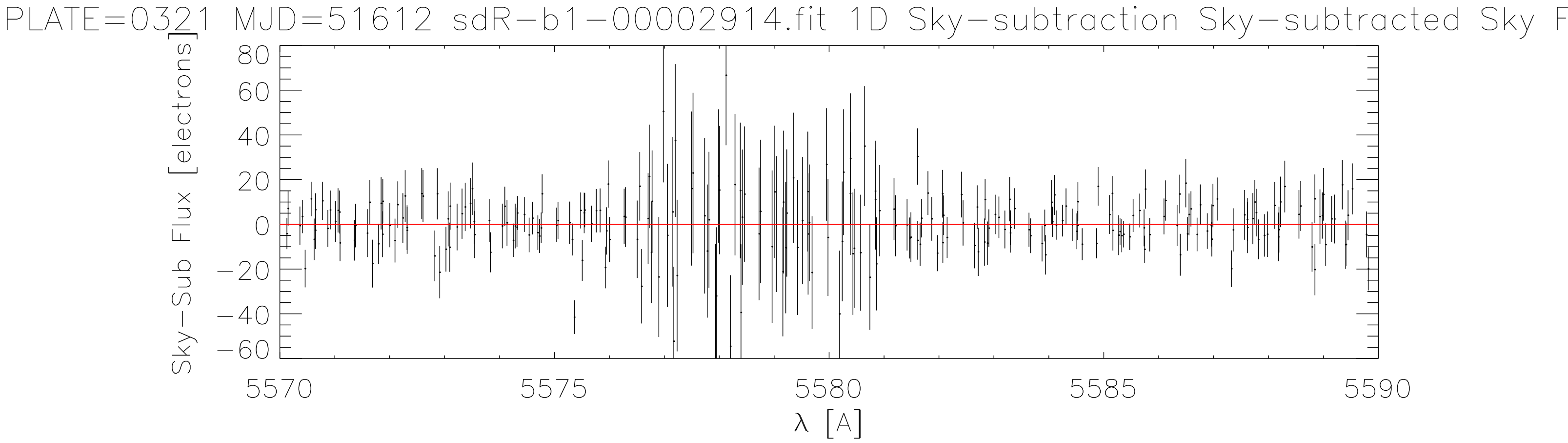

5895.9240
nfib1 17
nfib2 17
stdev 0.151
extra 0.16
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


sky shift, pixels
0.00
0.05
0.10
0.15
0.20
0.25
0.30
3500
4000
4500
5000
5500
6000
6500


PLATE=0321 MJD=51612 Smooth superflat for sdR-b1-00002914.fit
1.5
1.0
0.5
0.0
1.010
1.005
1.000
0.995
0.990
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

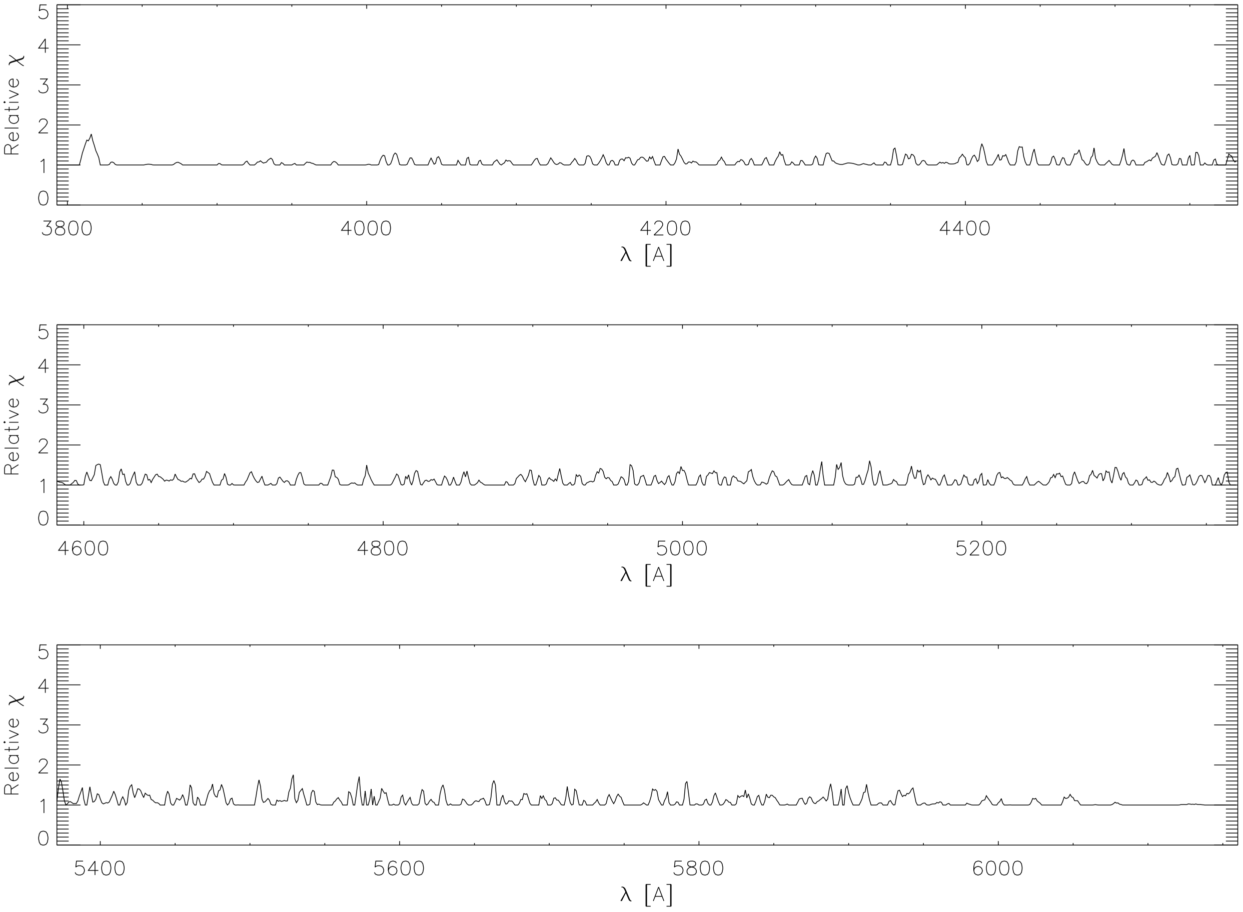

PLATE=0321 MJD=51612 sdR-b1-00002914.fit 1D Sky-subtraction Sky Fiber
Median χ²
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

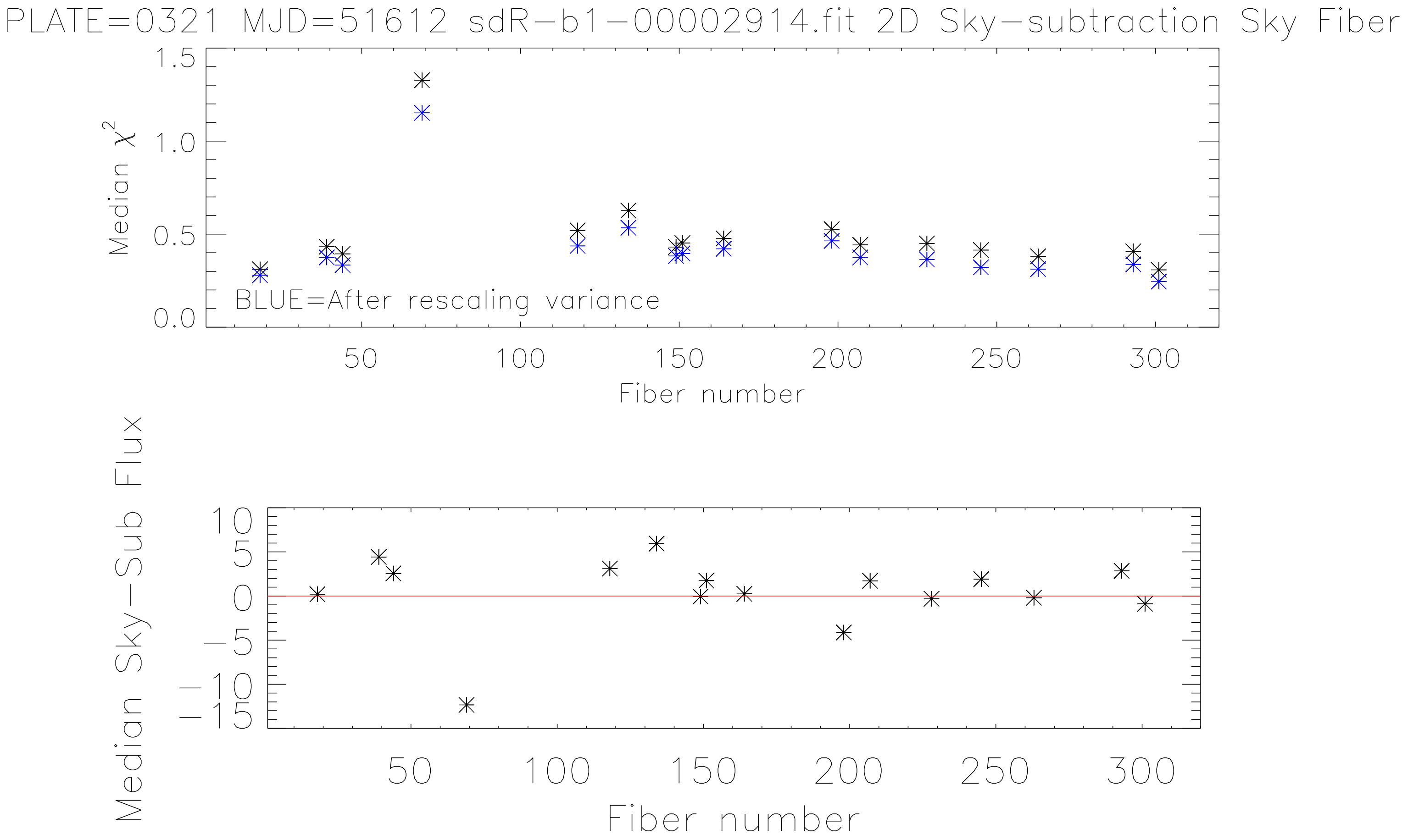

PLATE=0321 MJD=51612 sdR-b1-00002914.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
−200
5570
5575
5580
5585
5590
λ [A]

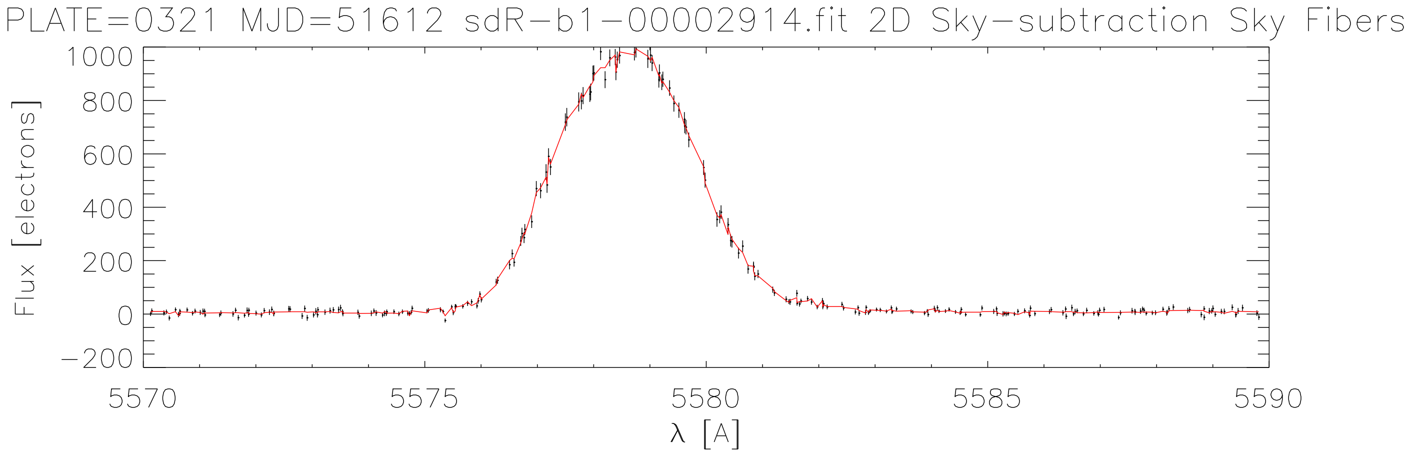

PLATE=0321 MJD=51612 sdR-b1-00002914.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky−Sub Flux [electrons]
80
60
40
20
0
−20
−40
−60
5570
5575
5580
5585
5590
λ [A]

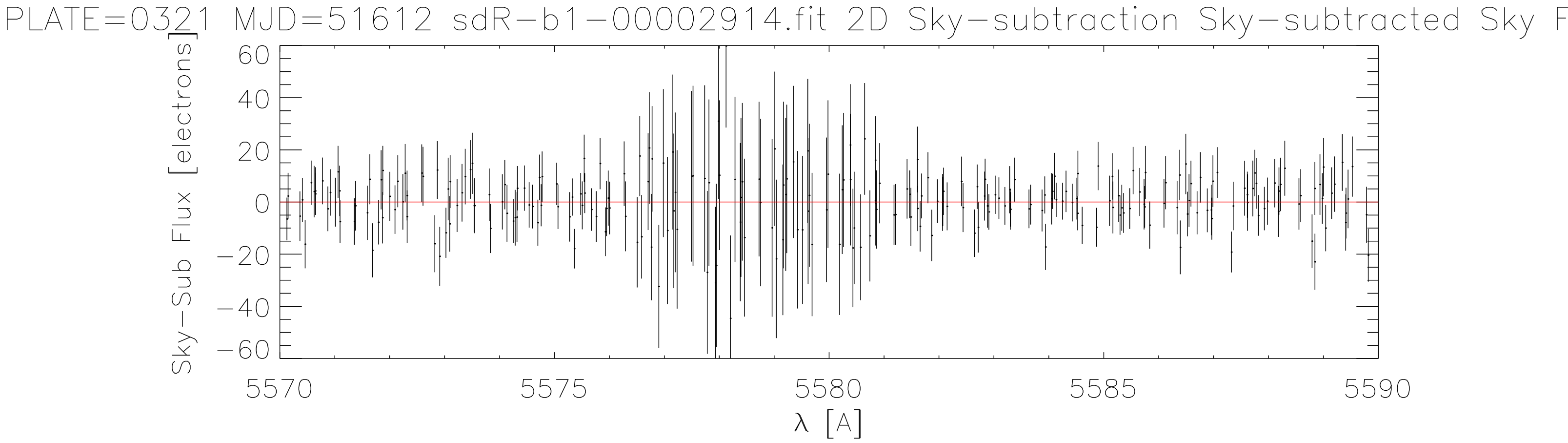
Number of sky fibers = 16

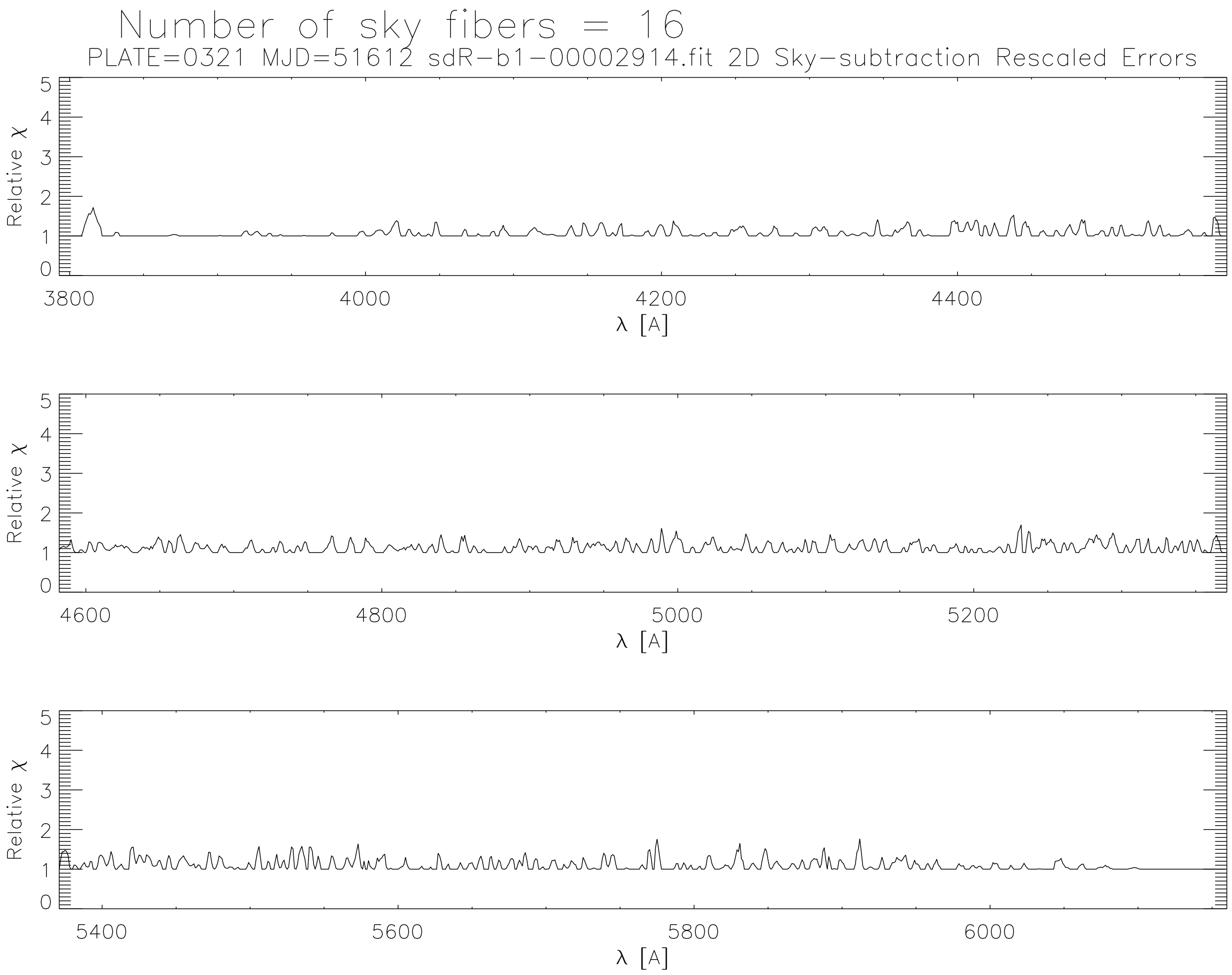
PLATE=0321 MJD=51612 sdR-b1-00002914.fit 1D Sky-subtraction Rescaled Errors



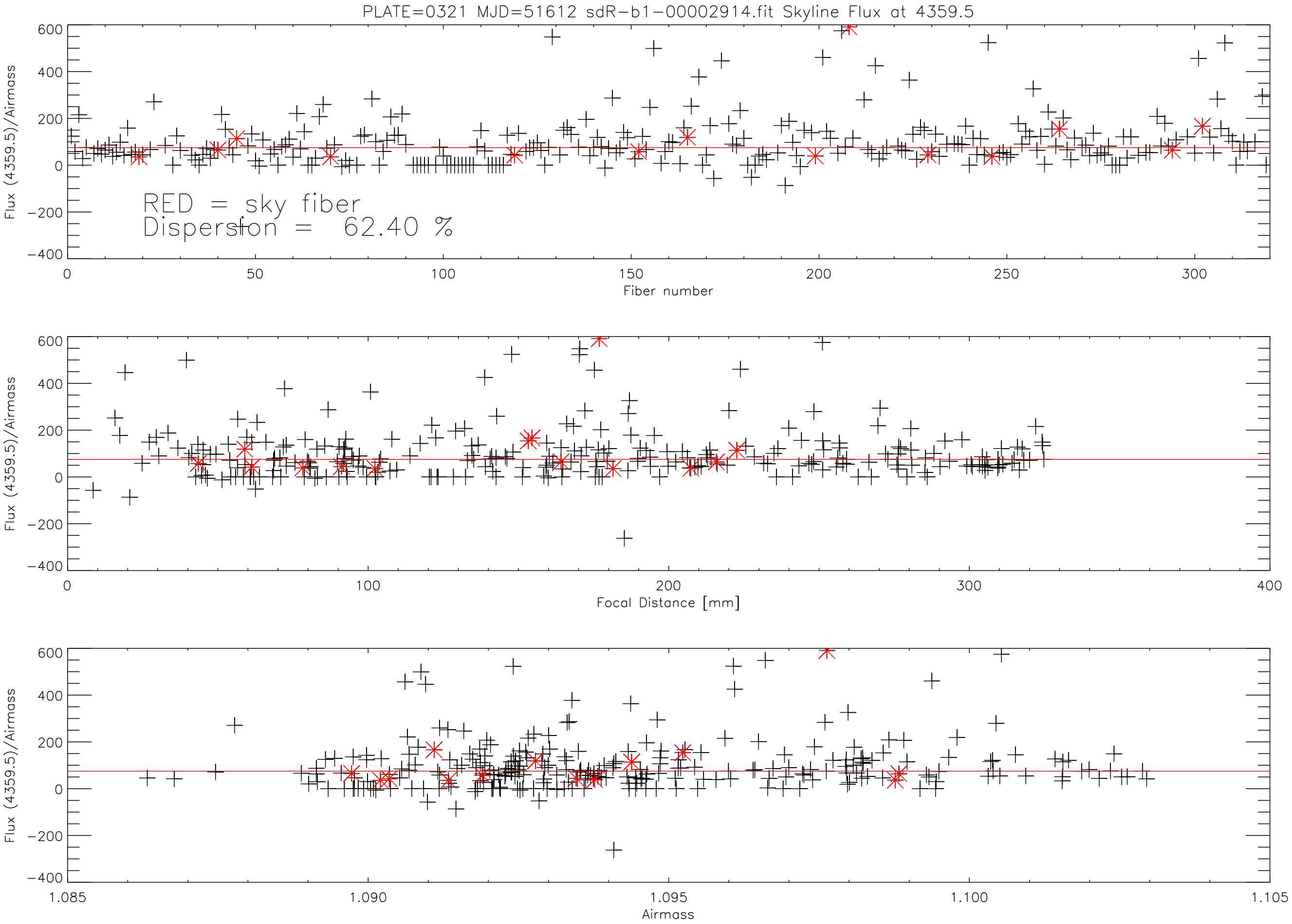

PLATE=0321 MJD=51612 sdR-b1-00002914.fit 2D Sky-subtraction Sky Fiber
Median χ^2
1.5
1.0
0.5
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
10
5
0
-5
-10
-15
50
100
150
200
250
300
Fiber number

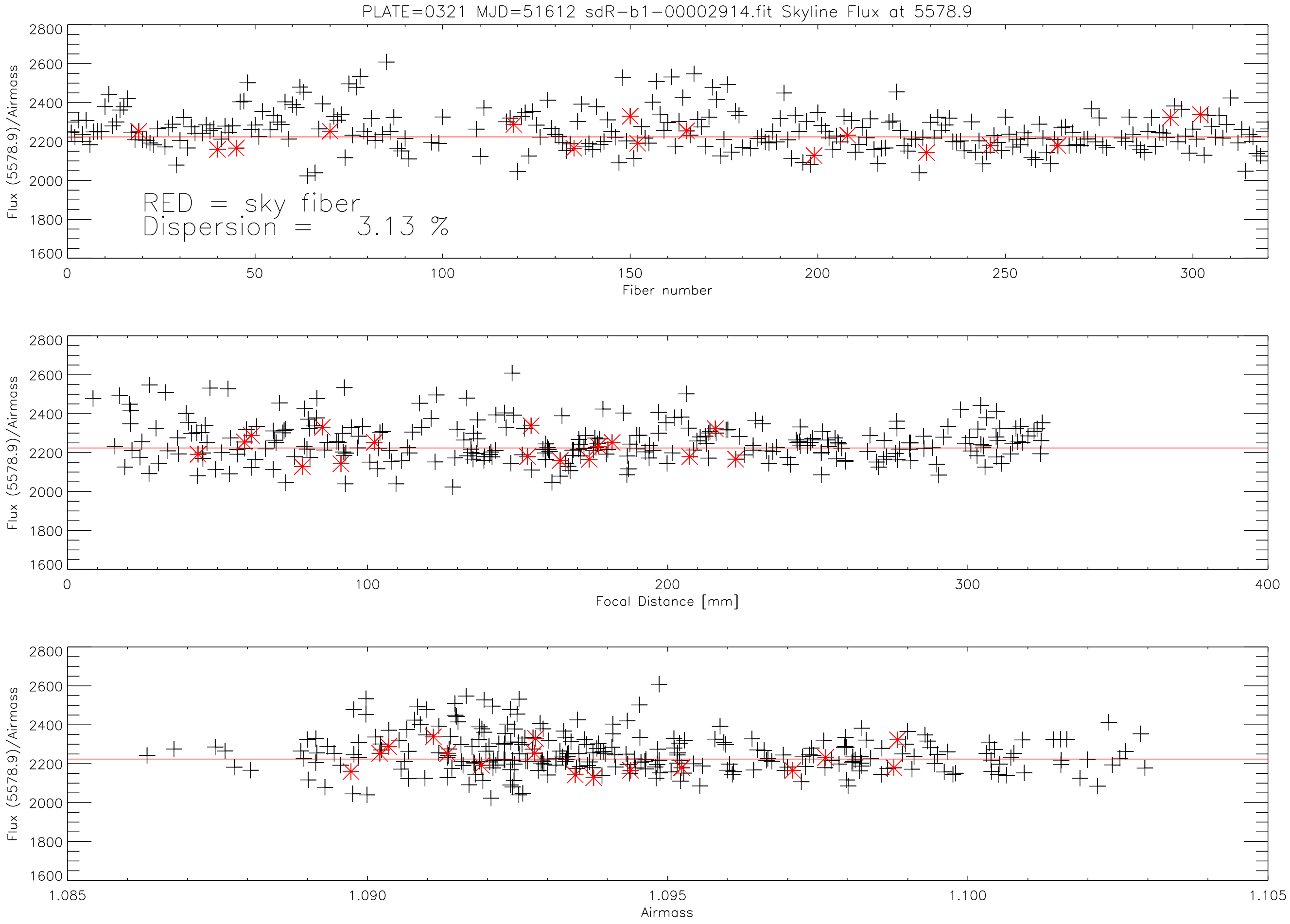

PLATE=0321 MJD=51612 sdR-b1-00002914.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
1000
800
600
400
200
0
−200
5570
5575
5580
5585
5590
λ [A]


PLATE=0321 MJD=51612 sdR-b1-00002914.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
60
40
20
0
−20
−40
−60
5570
5575
5580
5585
5590
λ [A]

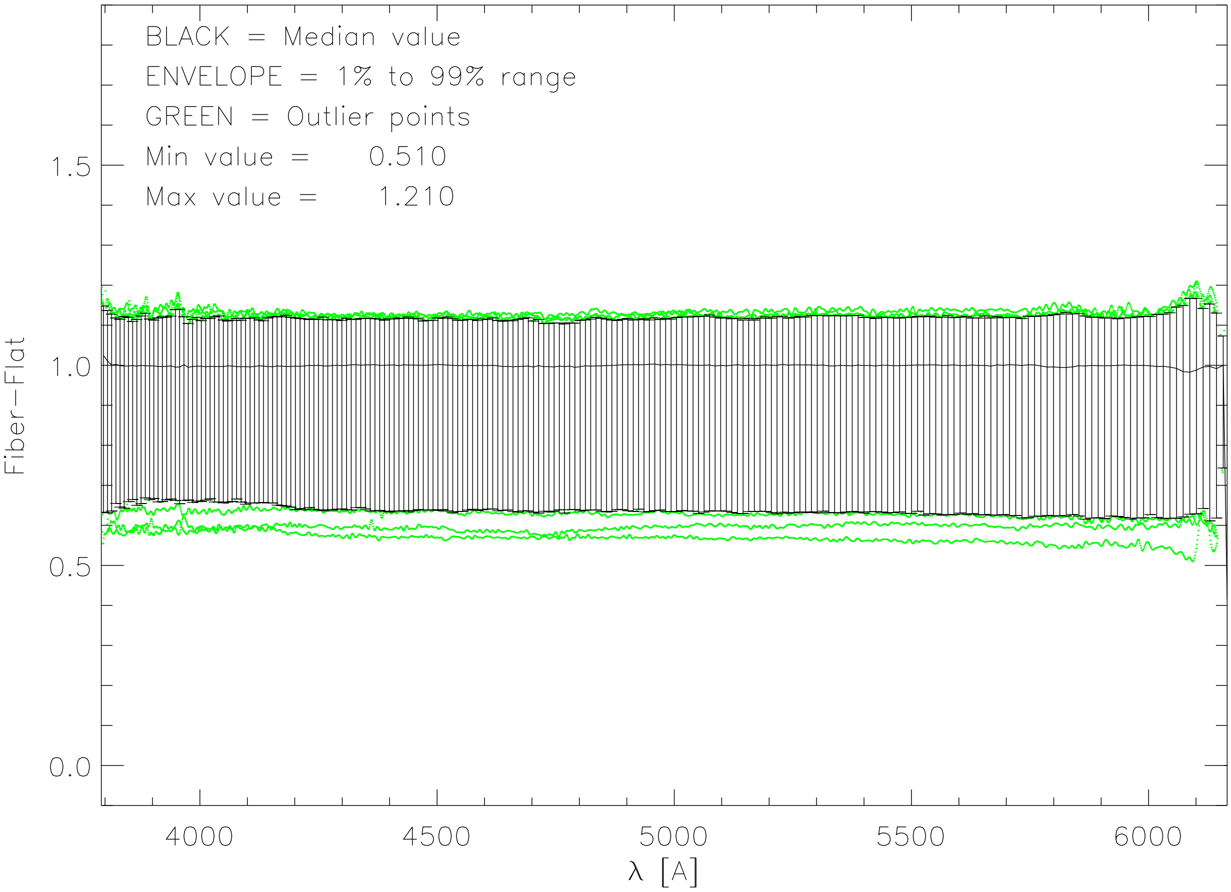

Number of sky fibers = 16

PLATE=0321 MJD=51612 sdR-b1-00002914.fit 2D Sky-subtraction Rescaled Errors

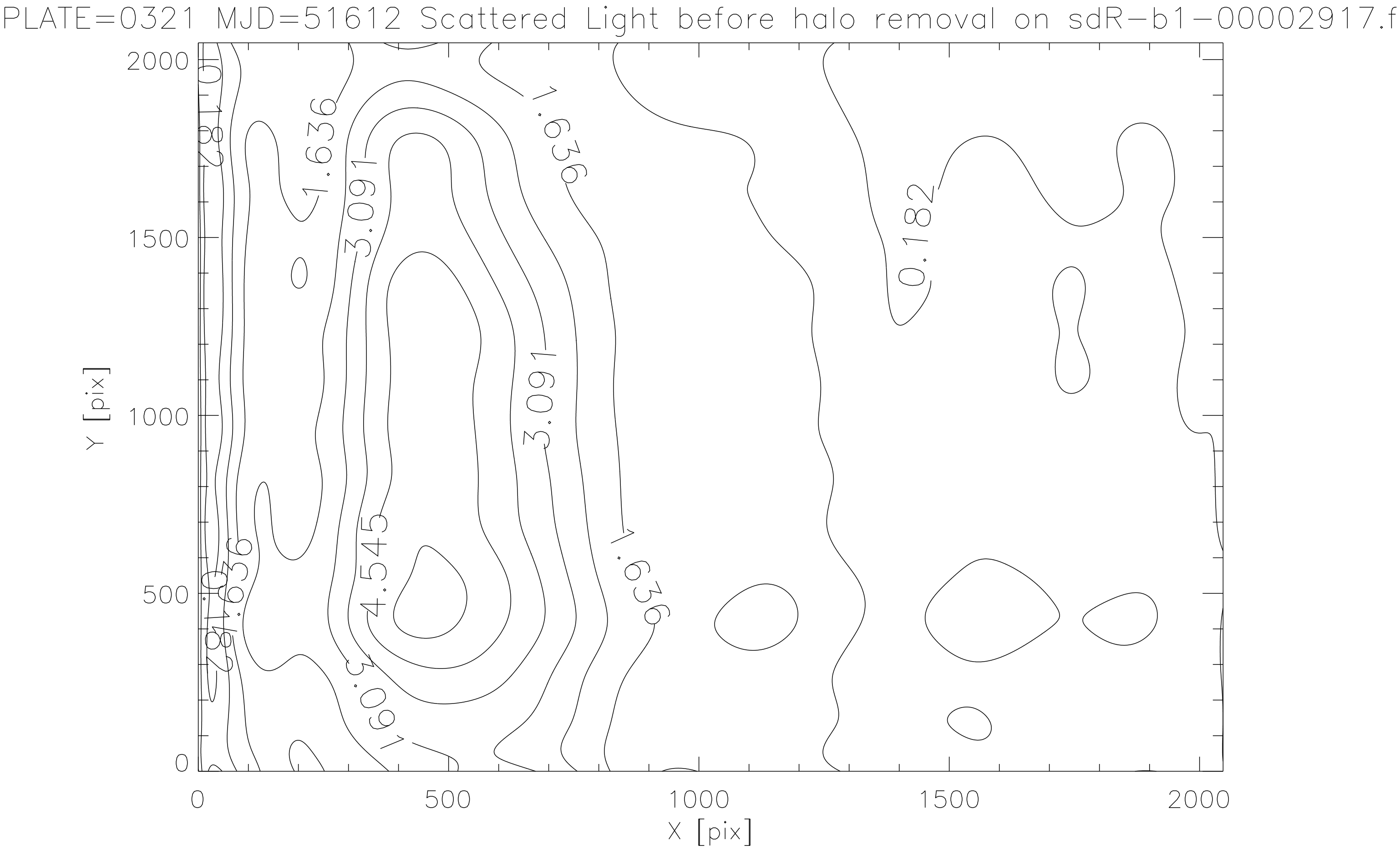

PLATE=0321 MJD=51612 sdR-b1-00002914.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
600
400
200
0
−200
−400
RED = sky fiber
Dispersion = 62.40 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
1.085
1.090
1.095
1.100
1.105
Airmass

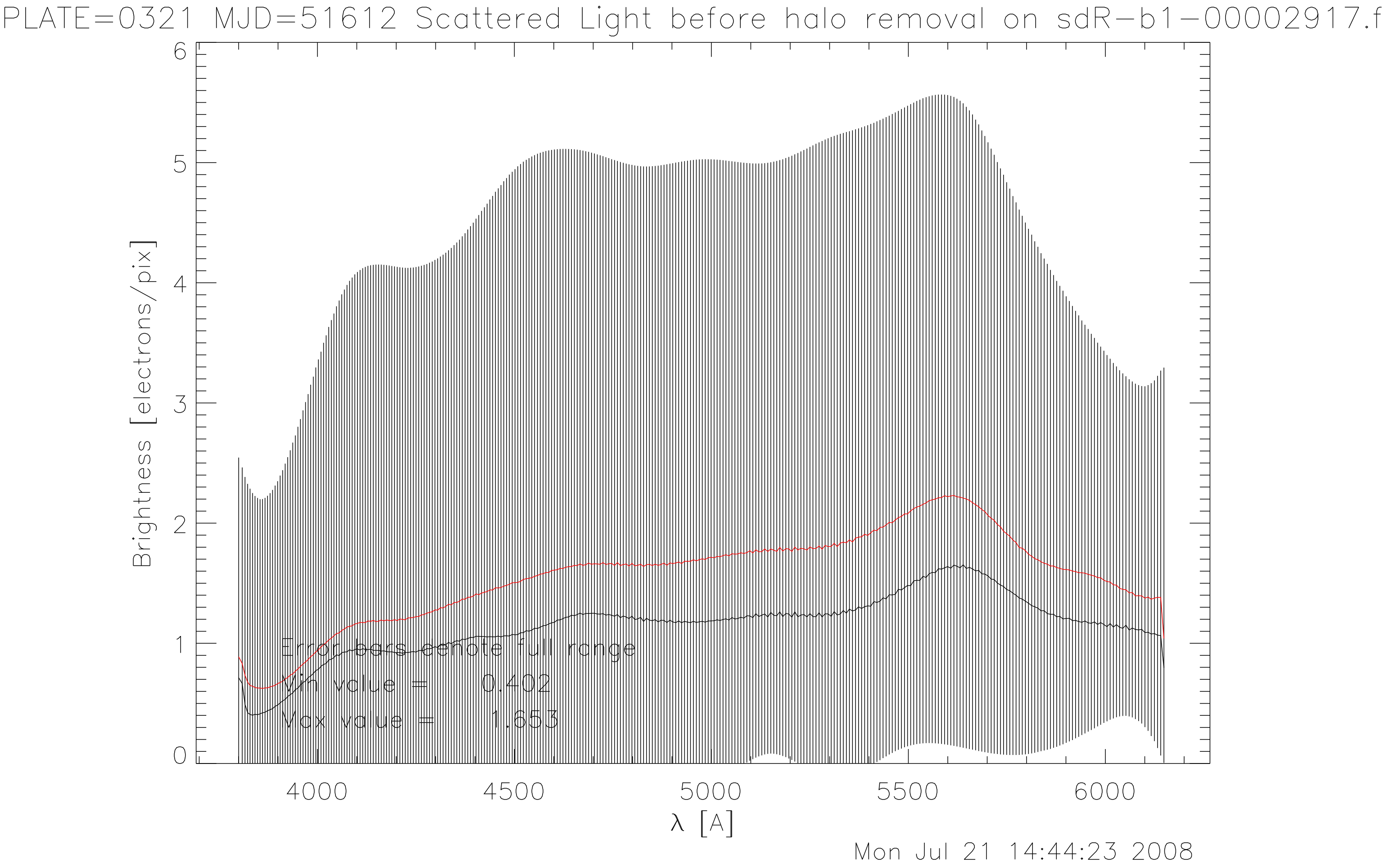

PLATE=0321 MJD=51612 sdR-b1-00002914.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
1600
1800
2000
2200
2400
2600
2800
RED = sky fiber
Dispersion = 3.13 %
0
50
100
150
200
250
300
Fiber number
0
100
200
300
400
Focal Distance [mm]
1.085
1.090
1.095
1.100
1.105
Airmass

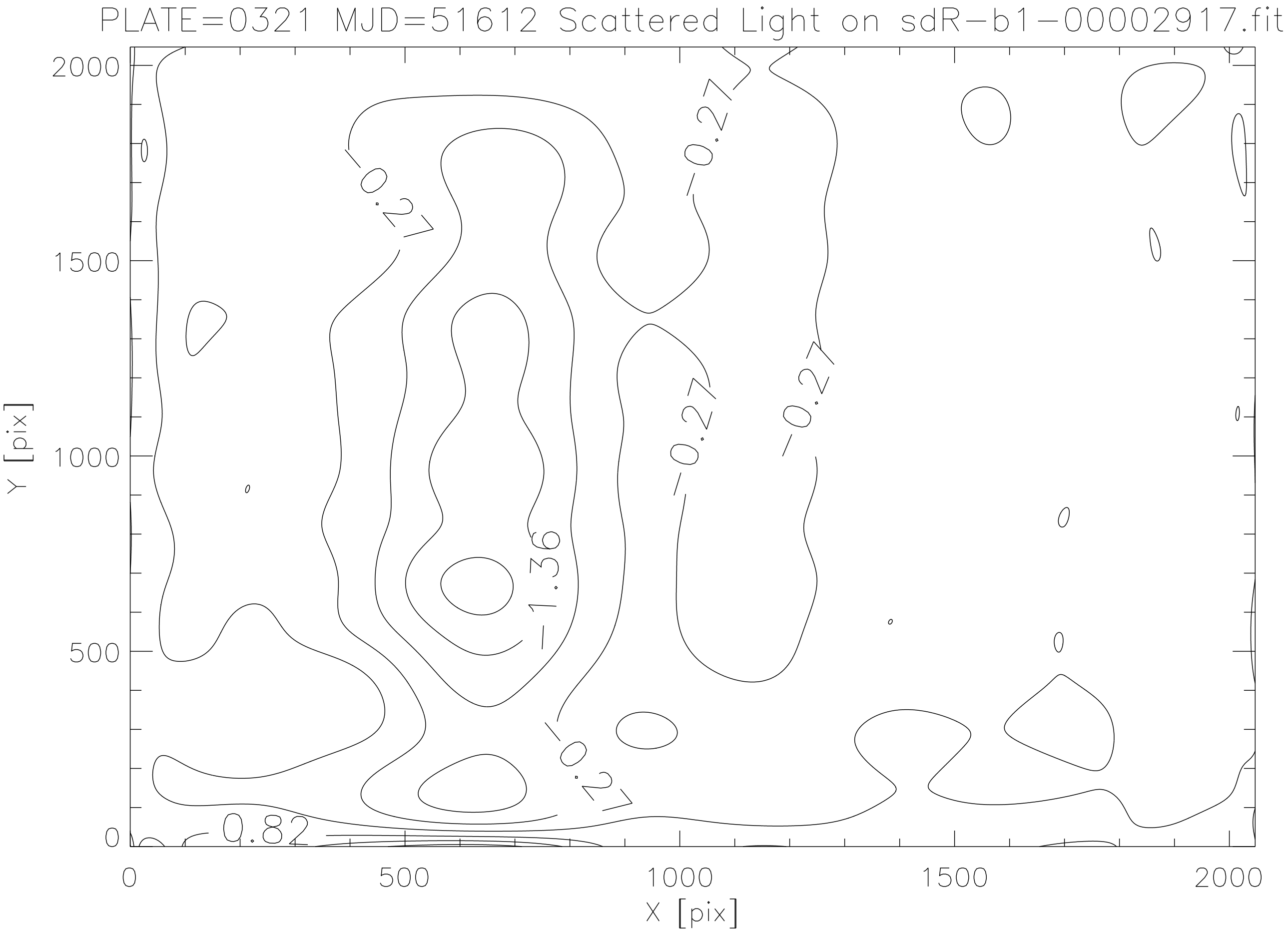
PLATE=0321 MJD=51612 Fiber-Flats for sdR-b1-00002910.fit



Mon Jul 21 14:43:26 2008

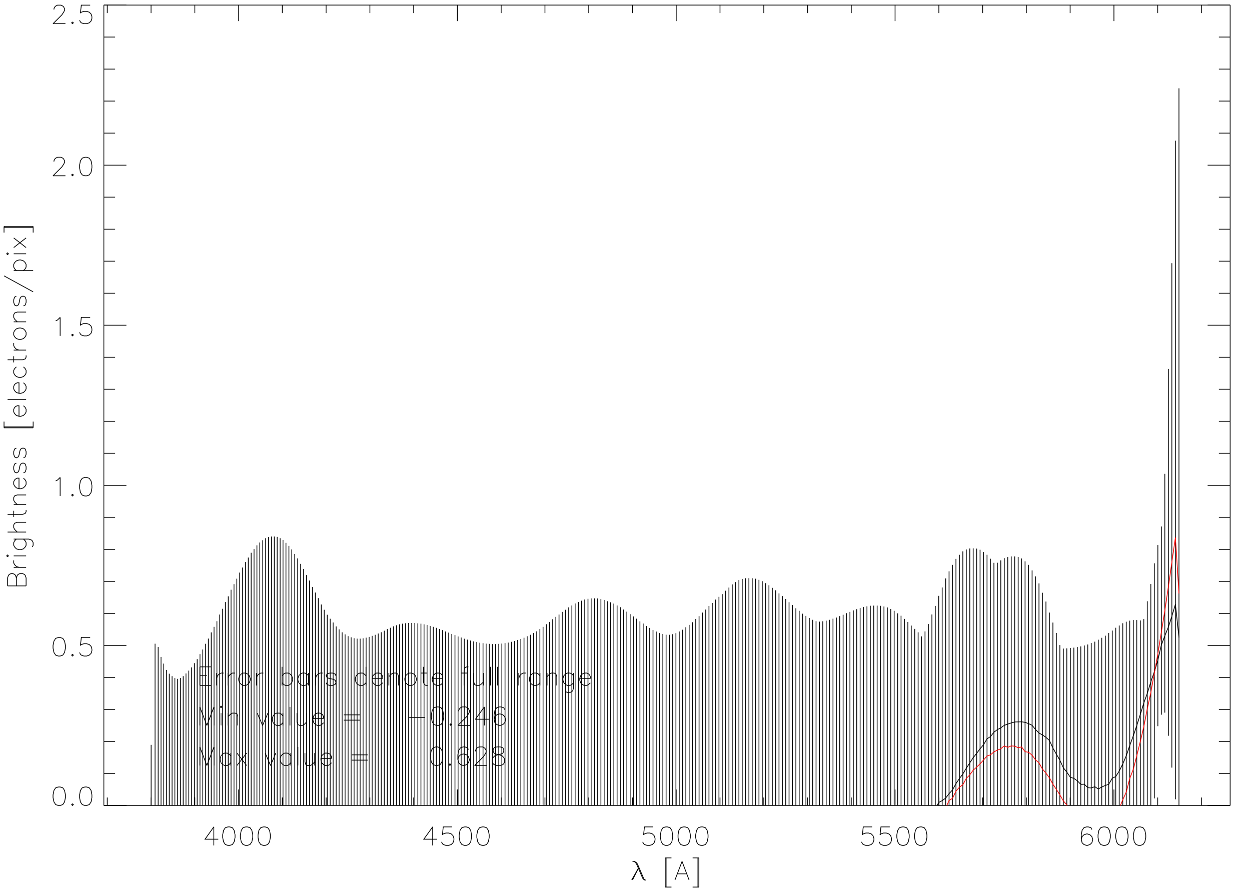

PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002917.f
Y [pix]
X [pix]
0
500
1000
1500
2000
0.182
1.636
3.091
4.545


PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002917.f
Brightness [electrons/pix]
6
5
4
3
2
1
0
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 0.402
Max value = 1.653
Mon Jul 21 14:44:23 2008

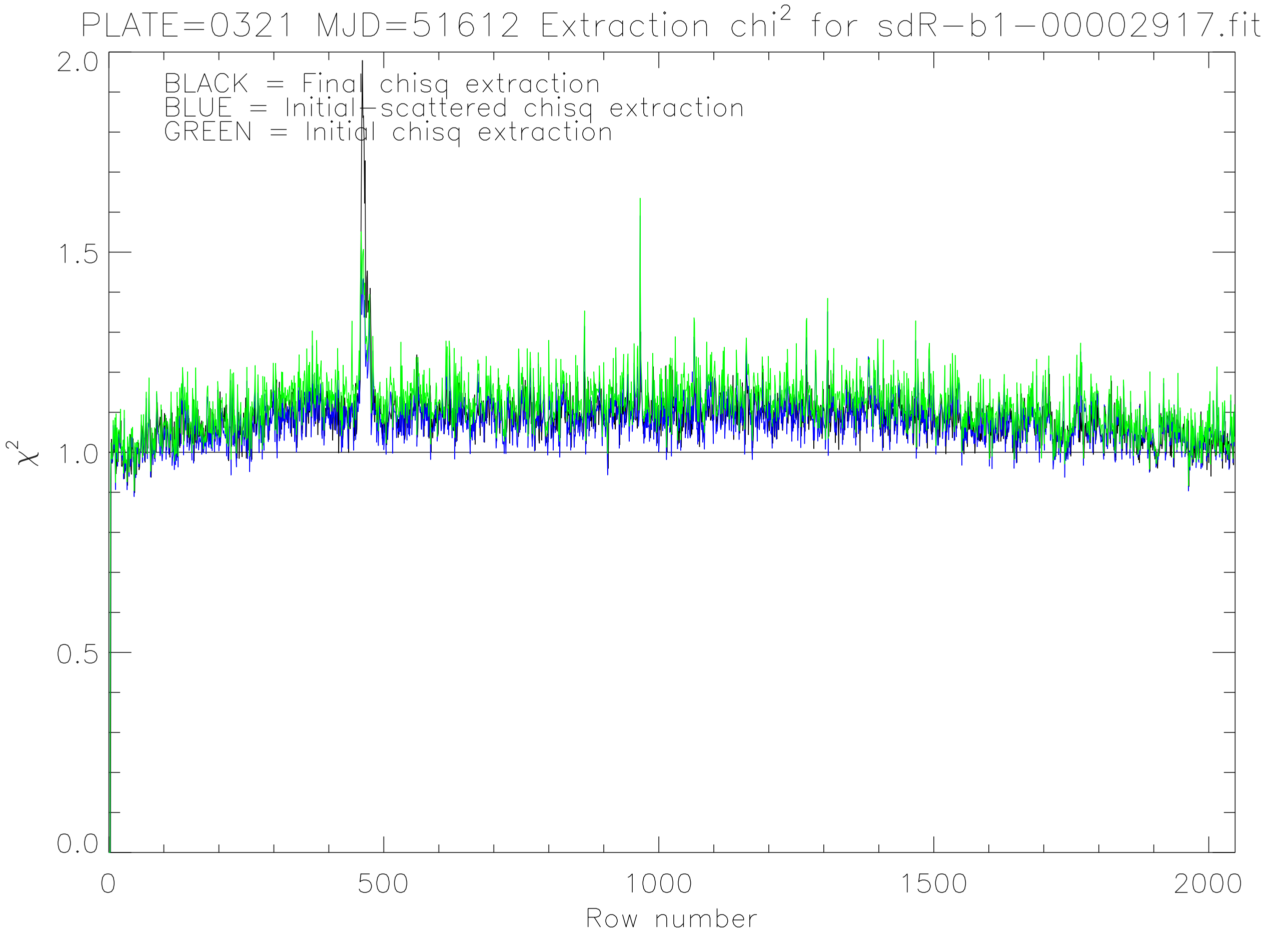


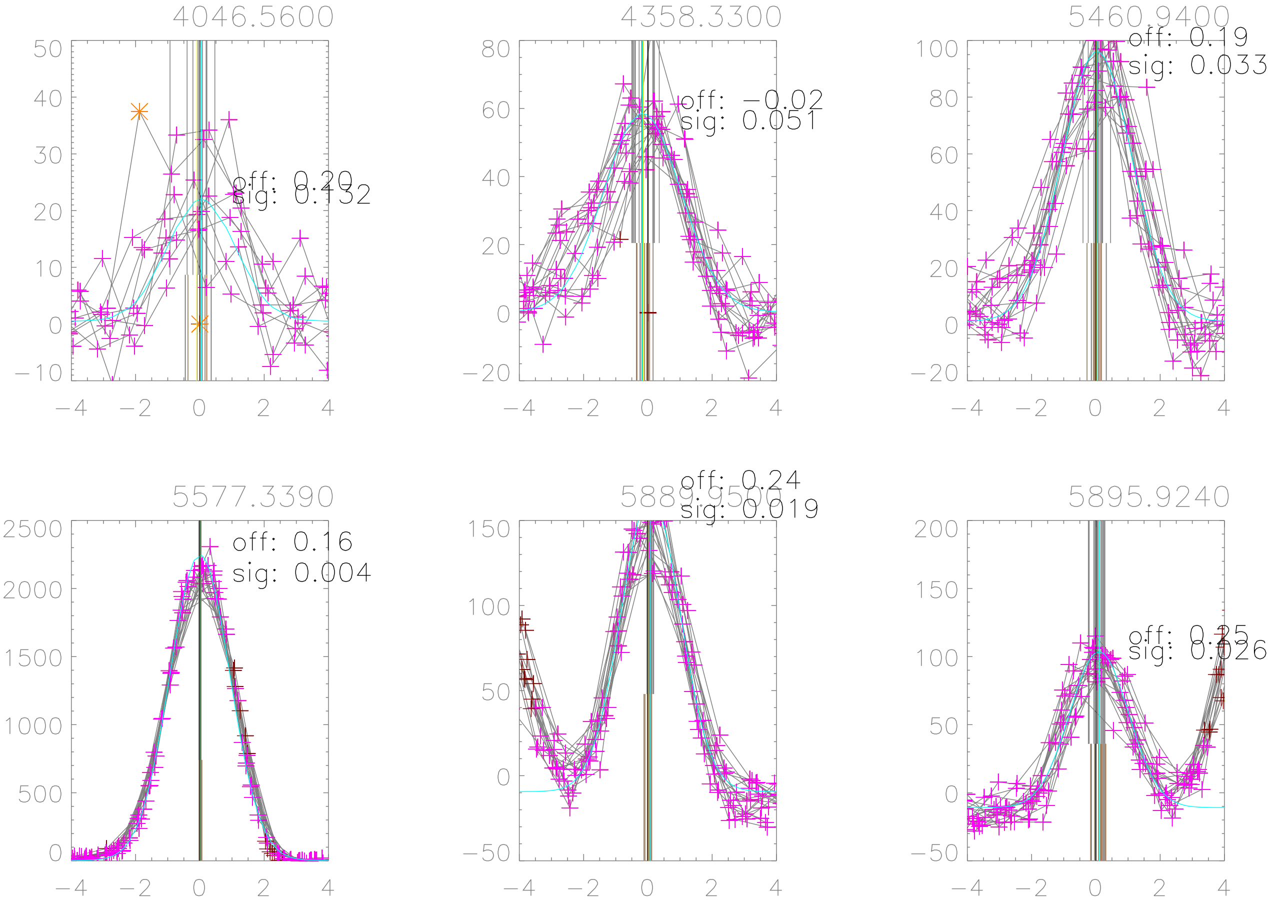
PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002917.fit

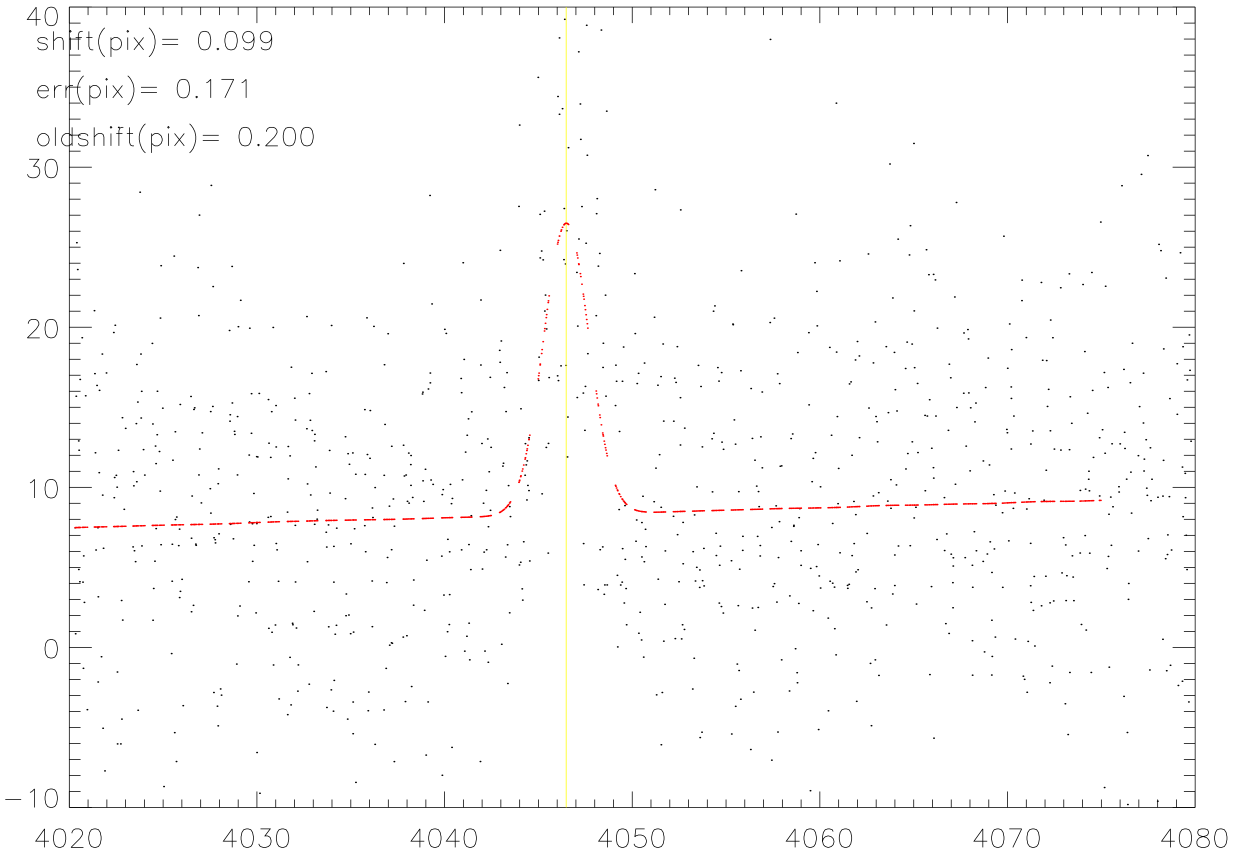
PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002917.fit

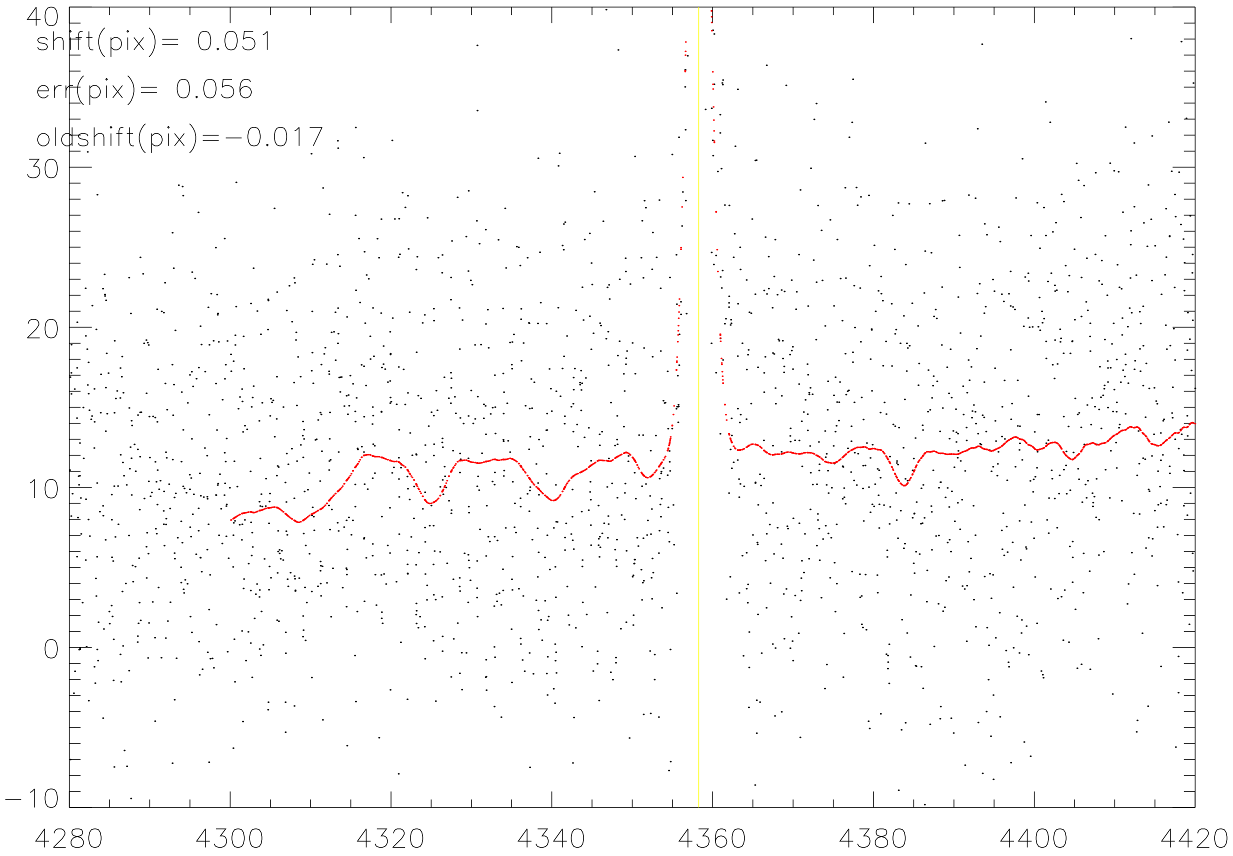


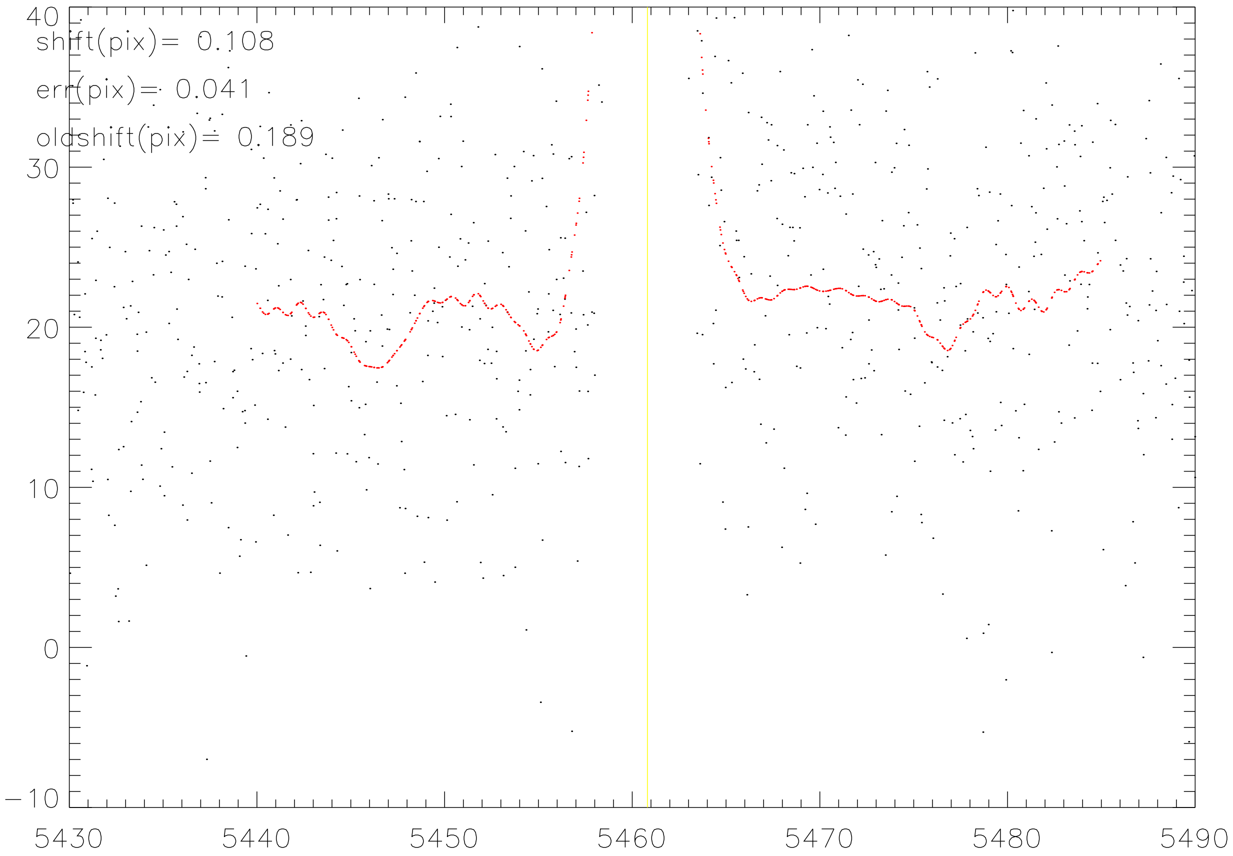
Mon Jul 21 14:47:33 2008

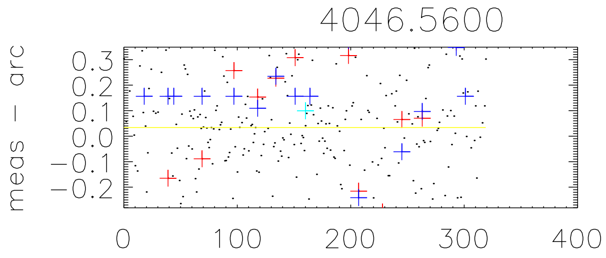

PLATE=0321 MJD=51612 Extraction chi^2 for sdR-b1-00002917.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
2.0
1.5
1.0
0.5
0.0
0
500
1000
1500
2000
Row number

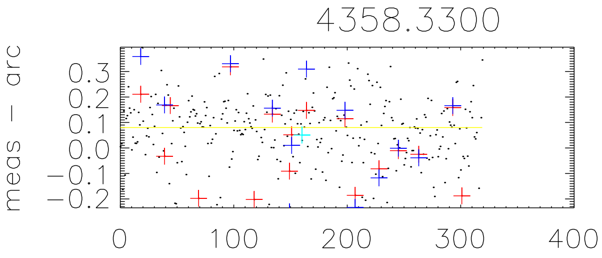

4046.5600
off: 0.20
sig: 0.132
4358.3300
off: −0.02
sig: 0.051
5460.9400
off: 0.19
sig: 0.033
5577.3390
off: 0.16
sig: 0.004
5889.9500
off: 0.24
sig: 0.019
5895.9240
off: 0.25
sig: 0.026
−4
−2
0
2
4

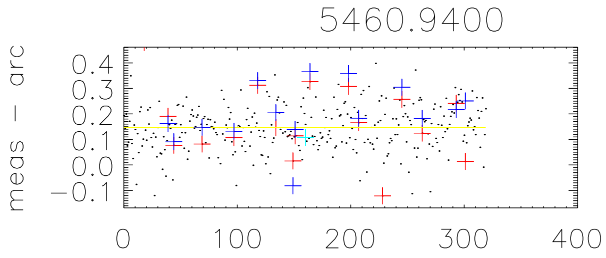

shift(pix)= 0.099
err(pix)= 0.171
oldshift(pix)= 0.200
40
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

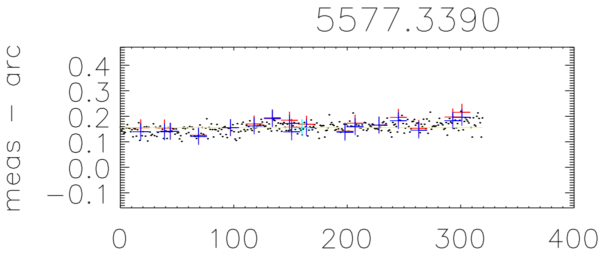

shift(pix)= 0.051
err(pix)= 0.056
oldshift(pix)=−0.017
40
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

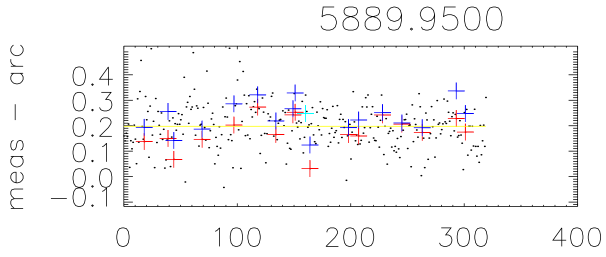

shift(pix)= 0.108
err(pix)= 0.041
oldshift(pix)= 0.189
40
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

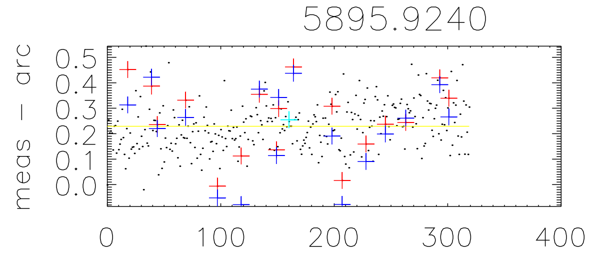

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

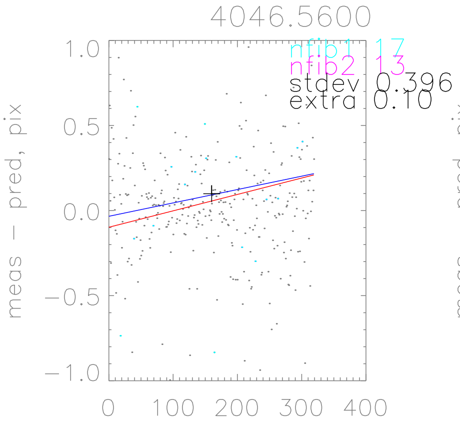

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

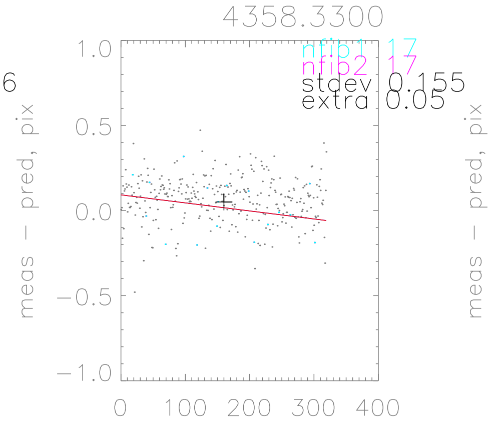

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

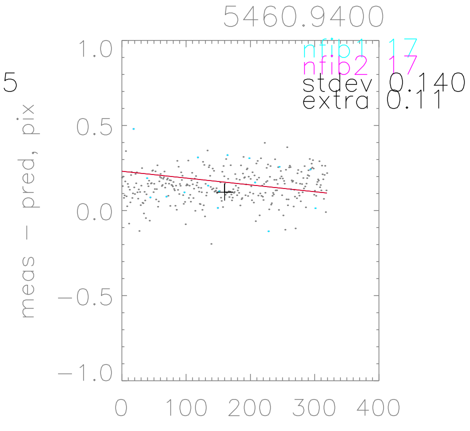

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

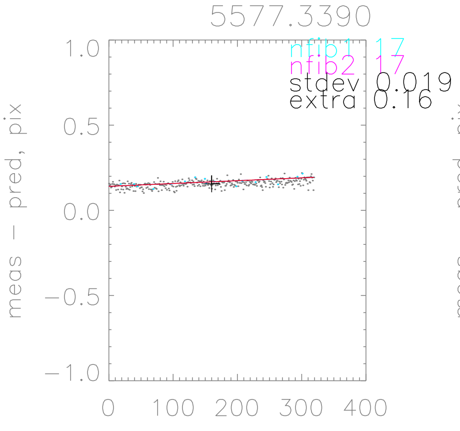

5889.9500
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

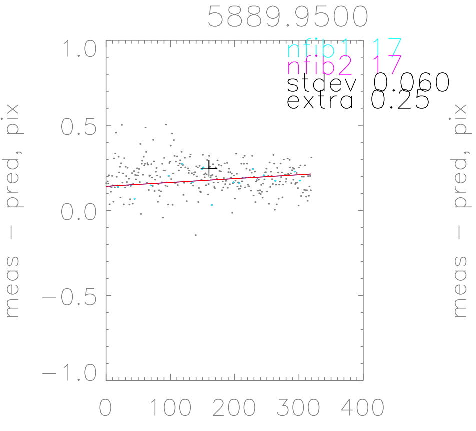

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

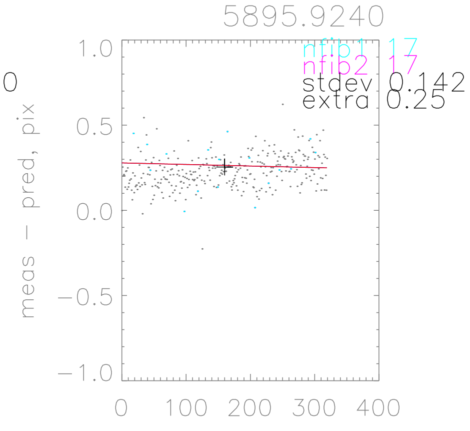

4046.5600
nfib1 17
nfib2 13
stdev 0.396
extra 0.10
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

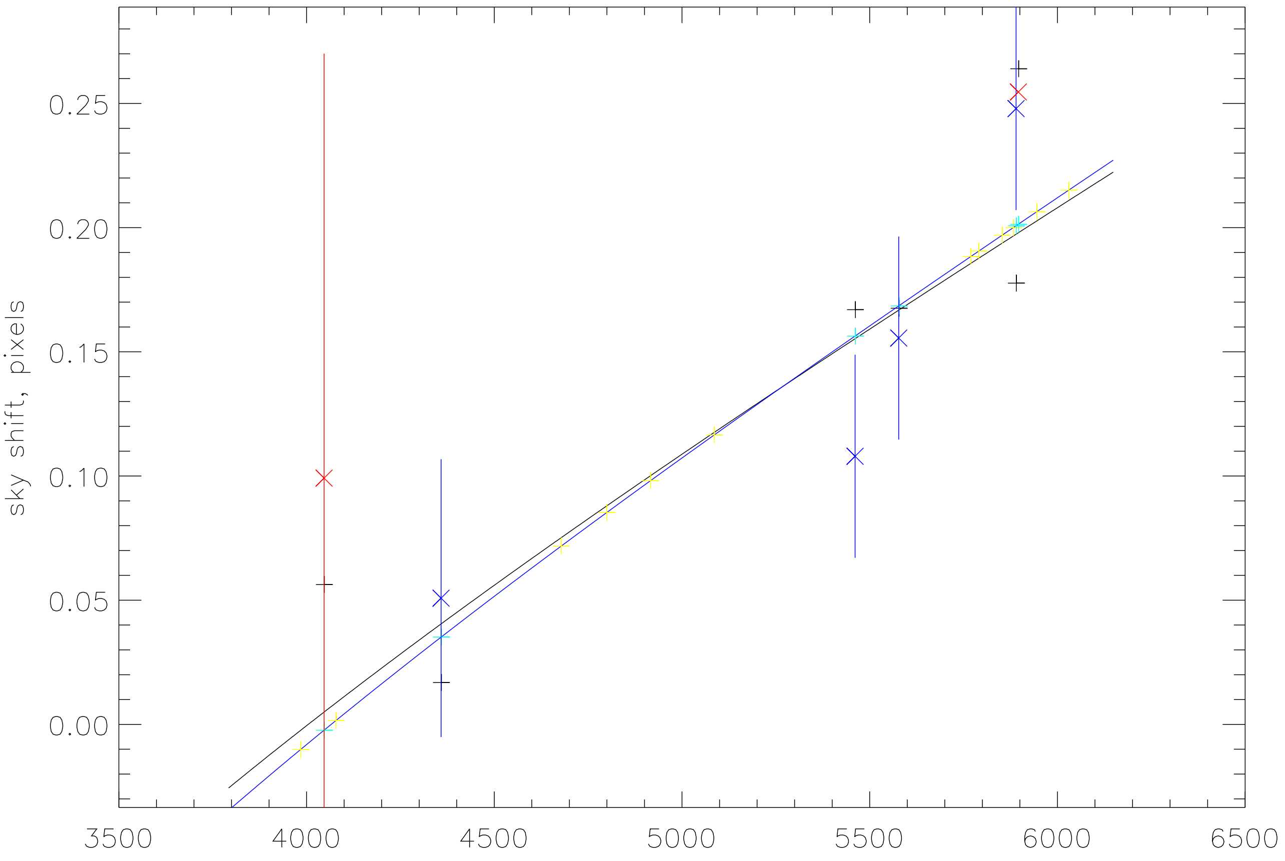

4358.3300
nfib1 17
nfib2 17
stdev 0.155
extra 0.05
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

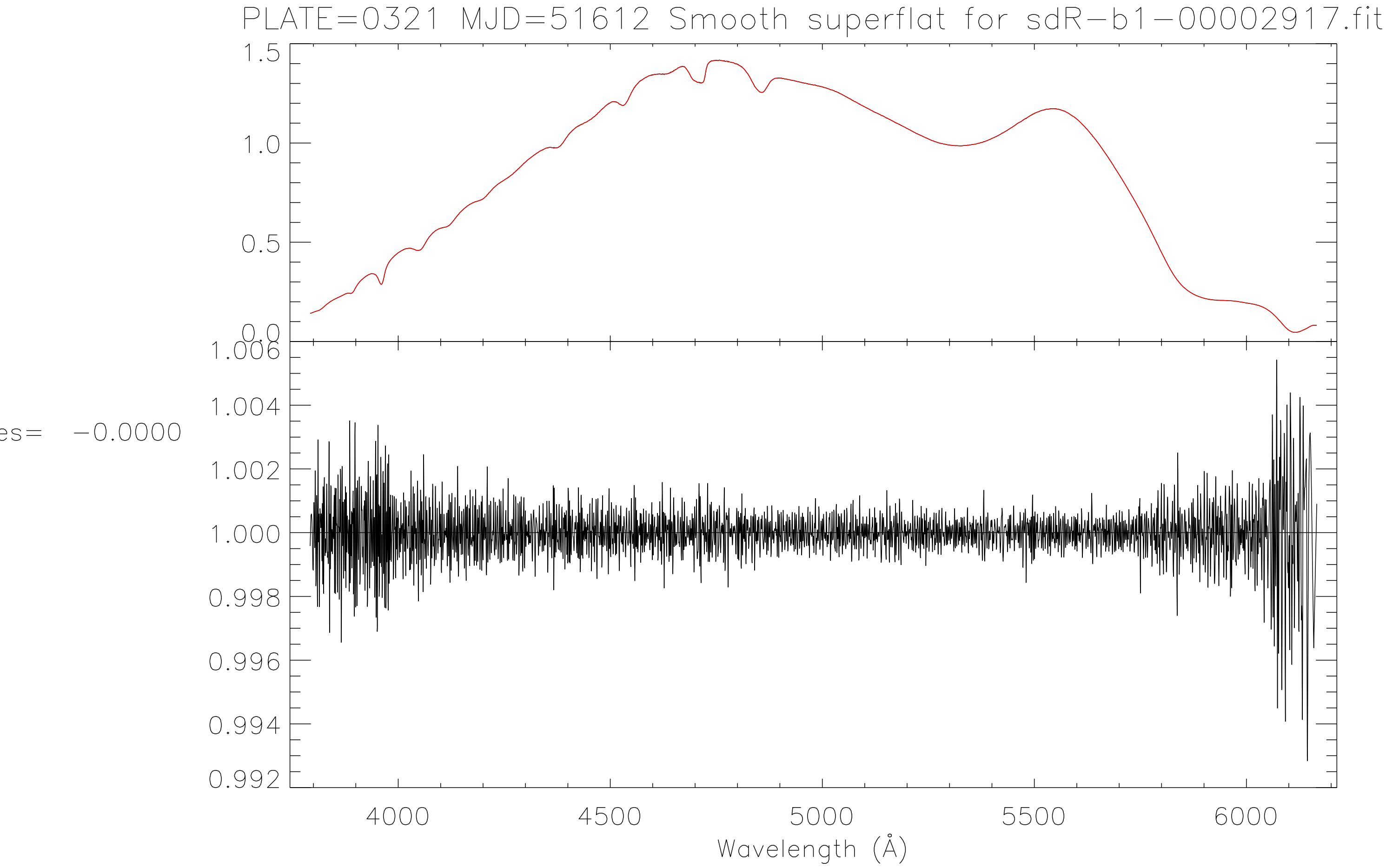

5460.9400
nfib1 17
nfib2 17
stdev 0.140
extra 0.11
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400


5577.3390
nfib1 17
nfib2 17
stdev 0.019
extra 0.16
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

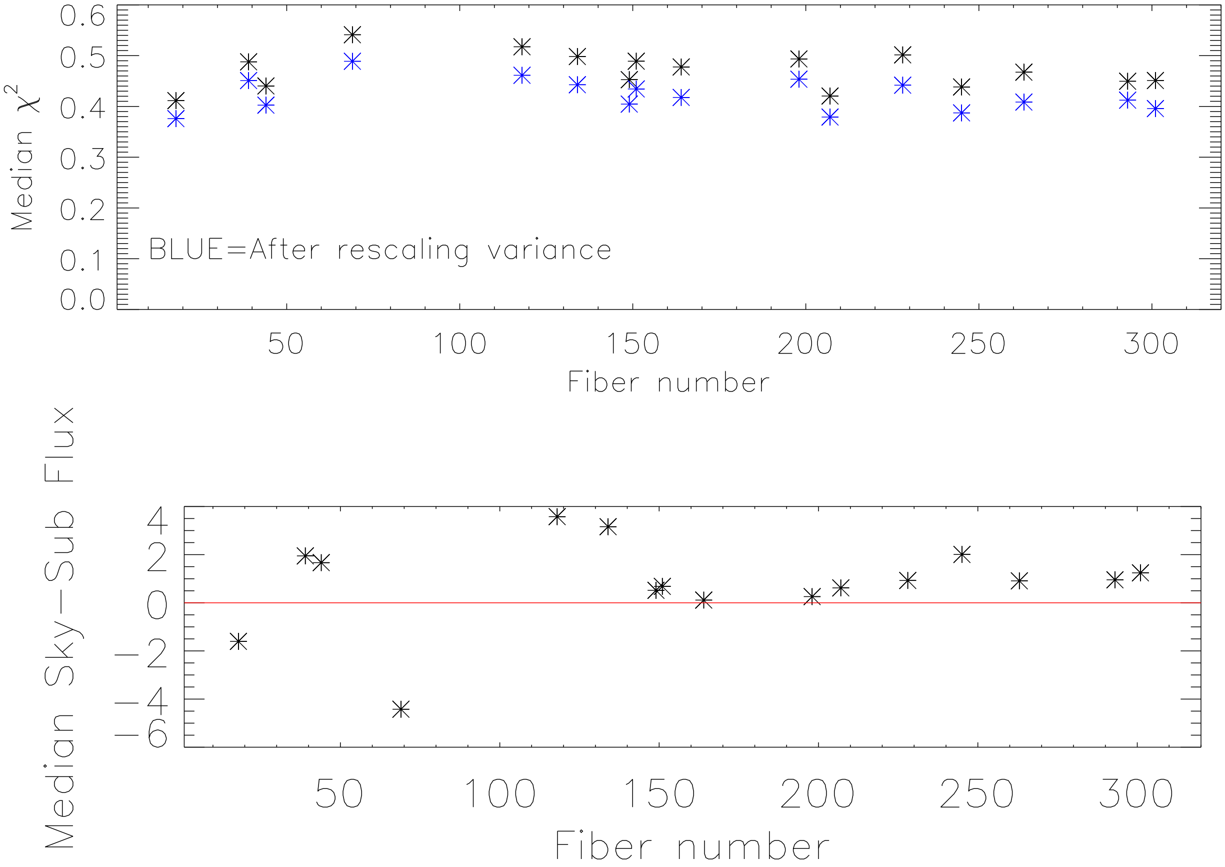

5889.9500
nfib1 17
nfib2 17
stdev 0.060
extra 0.25
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

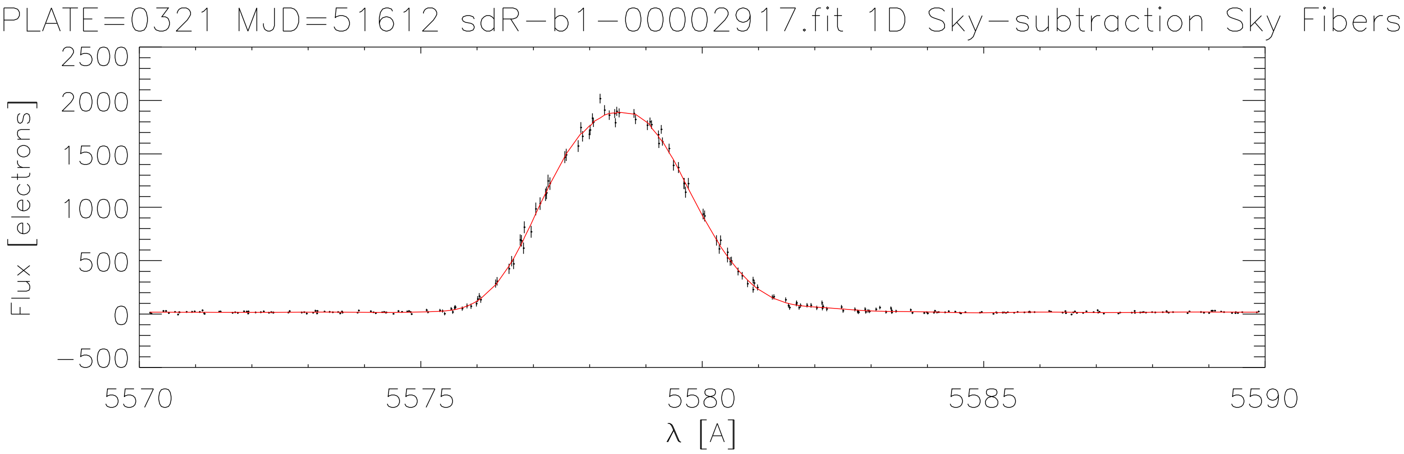

5895.9240
nfib1 17
nfib2 17
stdev 0.142
extra 0.25
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

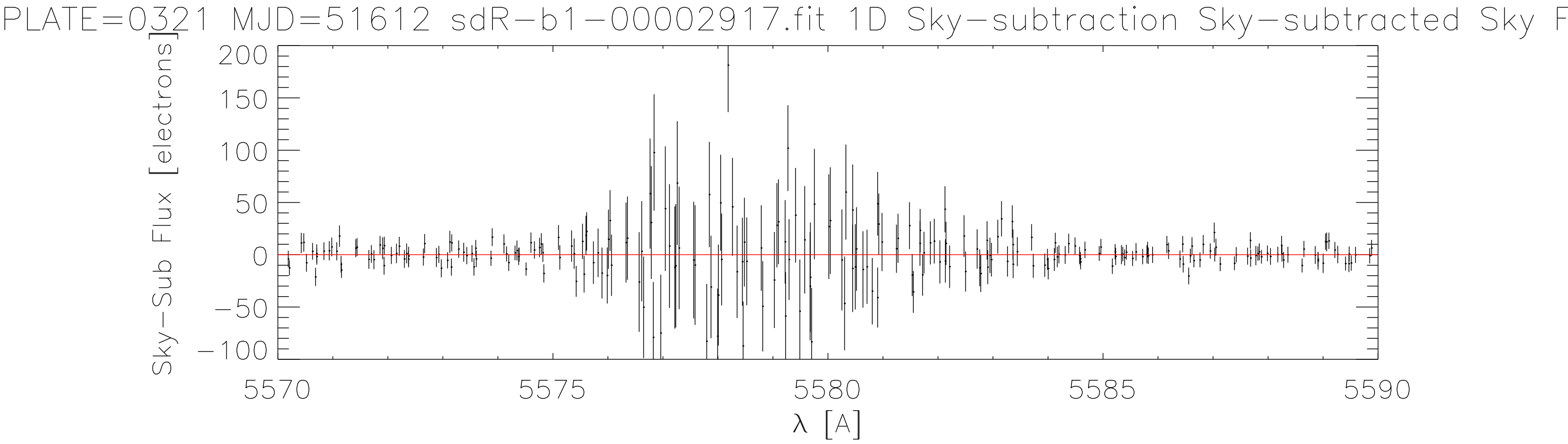

sky shift, pixels
0.25
0.20
0.15
0.10
0.05
0.00
3500
4000
4500
5000
5500
6000
6500


PLATE=0321 MJD=51612 Smooth superflat for sdR-b1-00002917.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)

PLATE=0321 MJD=51612 sdR-b1-00002917.fit 1D Sky-subtraction Sky Fiber

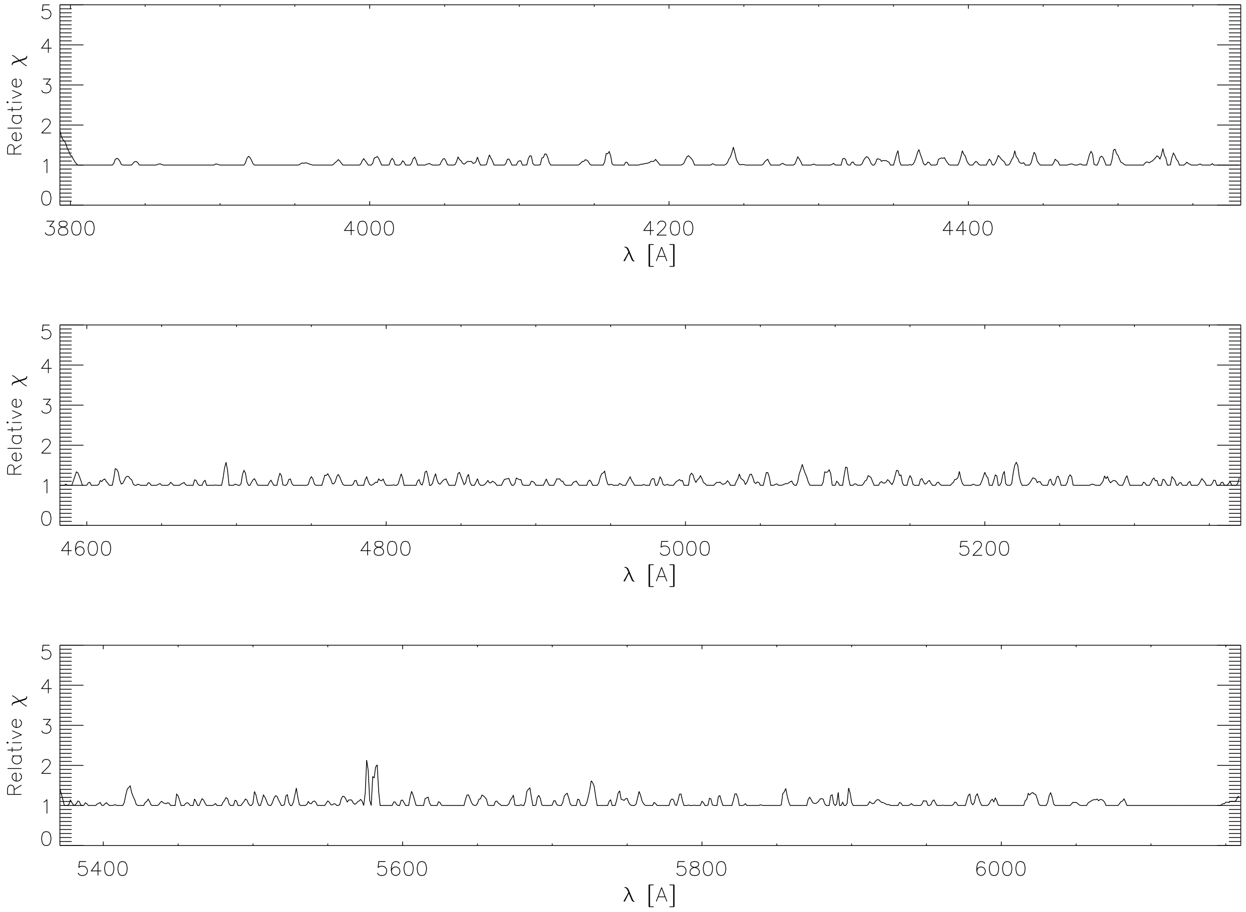


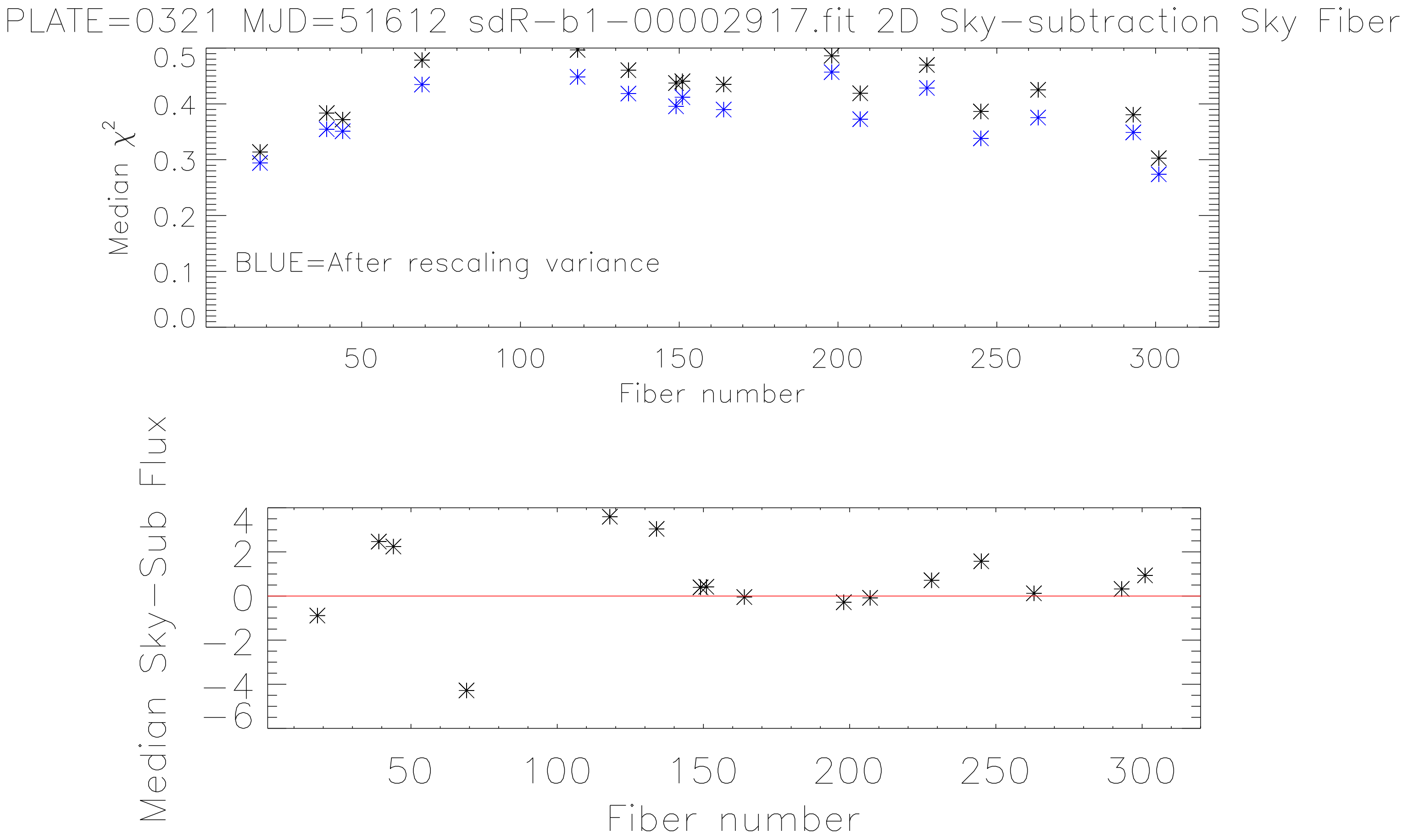

PLATE=0321 MJD=51612 sdR-b1-00002917.fit 1D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
−500
5570
5575
5580
5585
5590
λ [A]

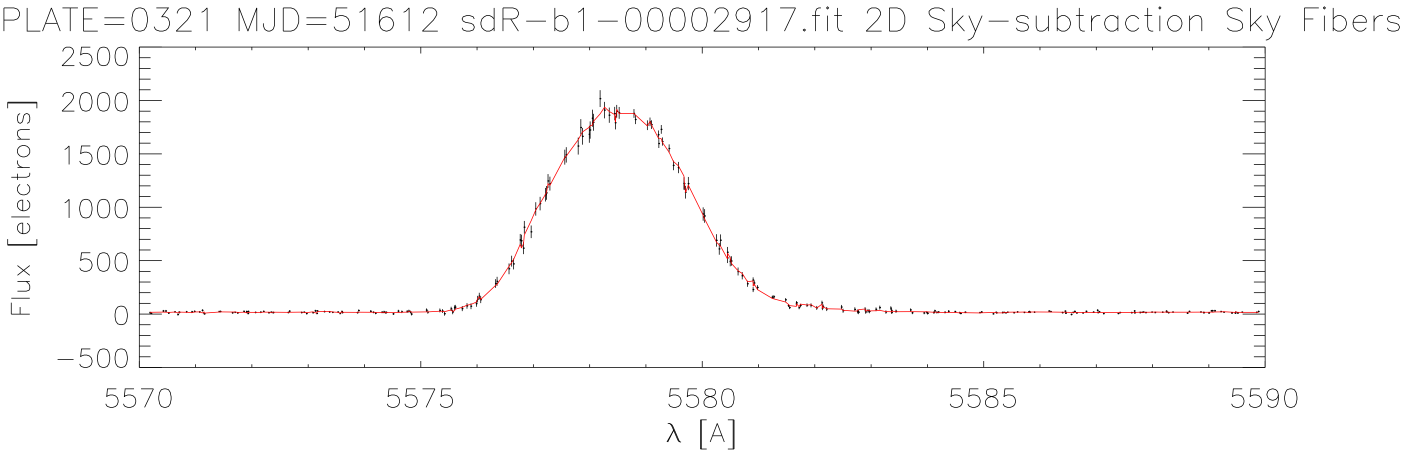

PLATE=0321 MJD=51612 sdR-b1-00002917.fit 1D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
200
150
100
50
0
−50
−100
5570
5575
5580
5585
5590
λ [A]

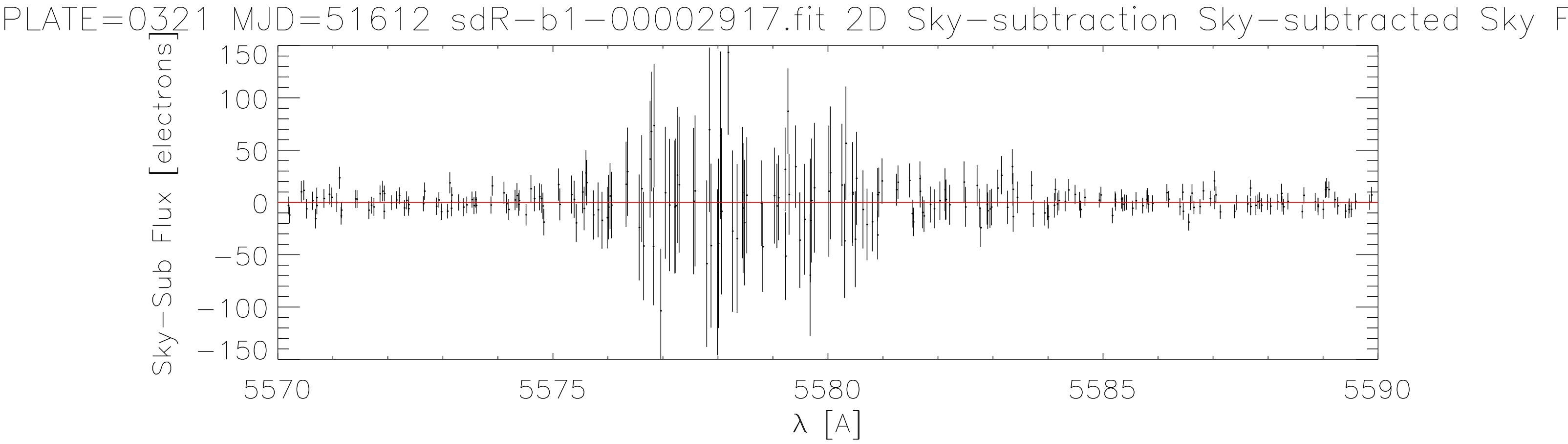
Number of sky fibers = 16

PLATE=0321 MJD=51612 sdR-b1-00002917.fit 1D Sky-subtraction Rescaled Errors



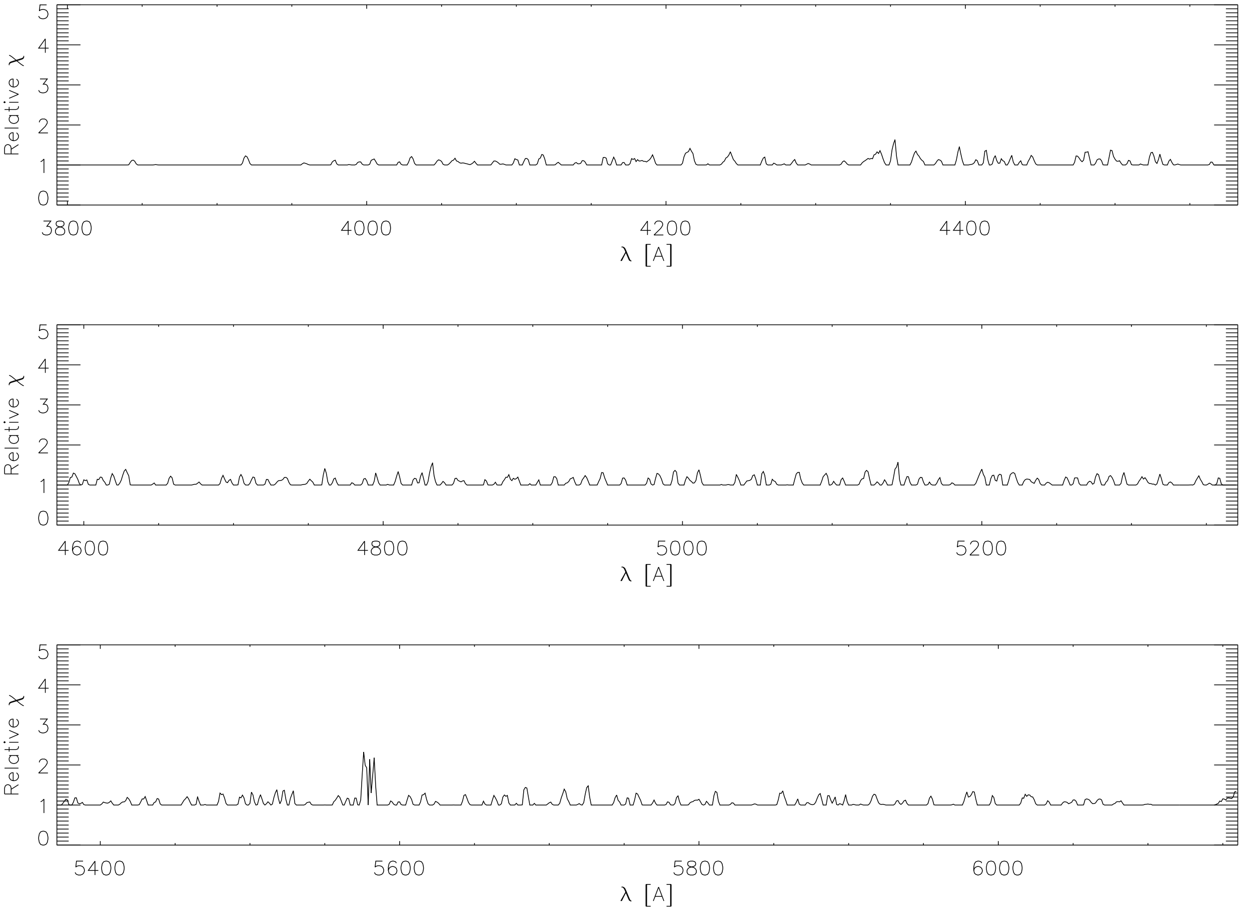

PLATE=0321 MJD=51612 sdR-b1-00002917.fit 2D Sky-subtraction Sky Fiber
Median χ^2
BLUE=After rescaling variance
0.0
0.1
0.2
0.3
0.4
0.5
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
4
2
0
−2
−4
−6
50
100
150
200
250
300
Fiber number

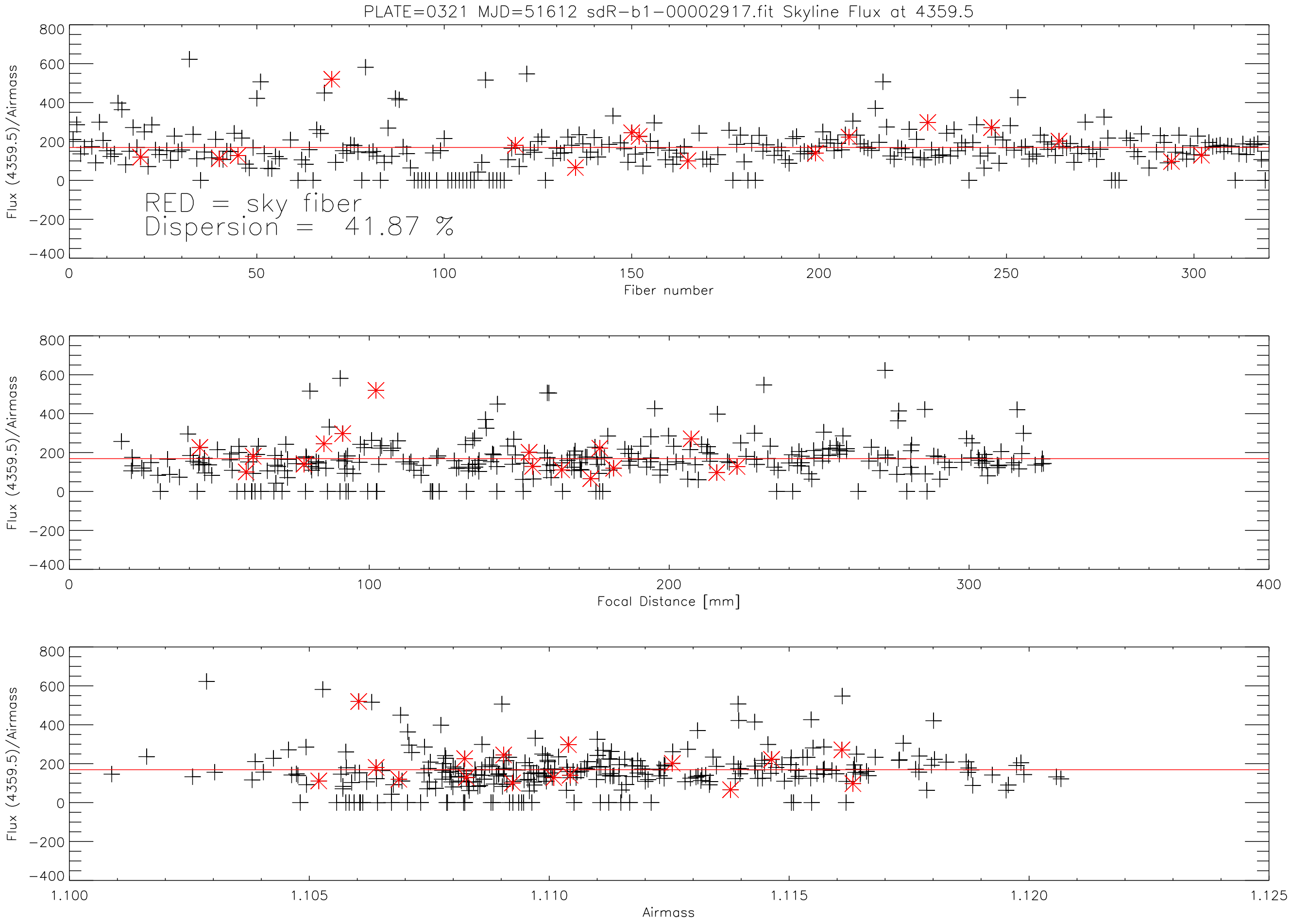

PLATE=0321 MJD=51612 sdR-b1-00002917.fit 2D Sky-subtraction Sky Fibers
Flux [electrons]
2500
2000
1500
1000
500
0
−500
5570
5575
5580
5585
5590
λ [A]

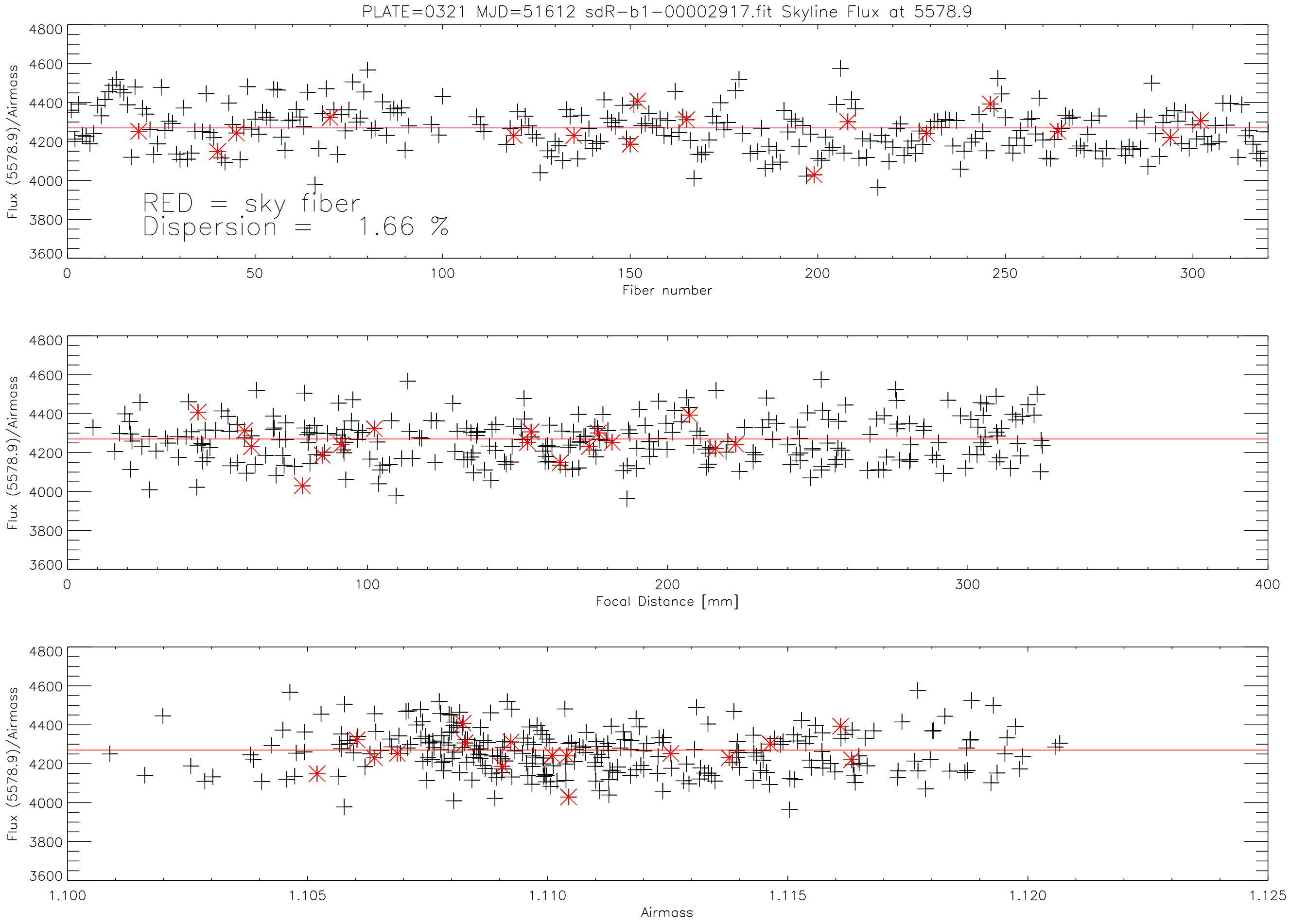

PLATE=0321 MJD=51612 sdR-b1-00002917.fit 2D Sky-subtraction Sky-subtracted Sky F
Sky-Sub Flux [electrons]
150
100
50
0
−50
−100
−150
5570
5575
5580
5585
5590
λ [A]

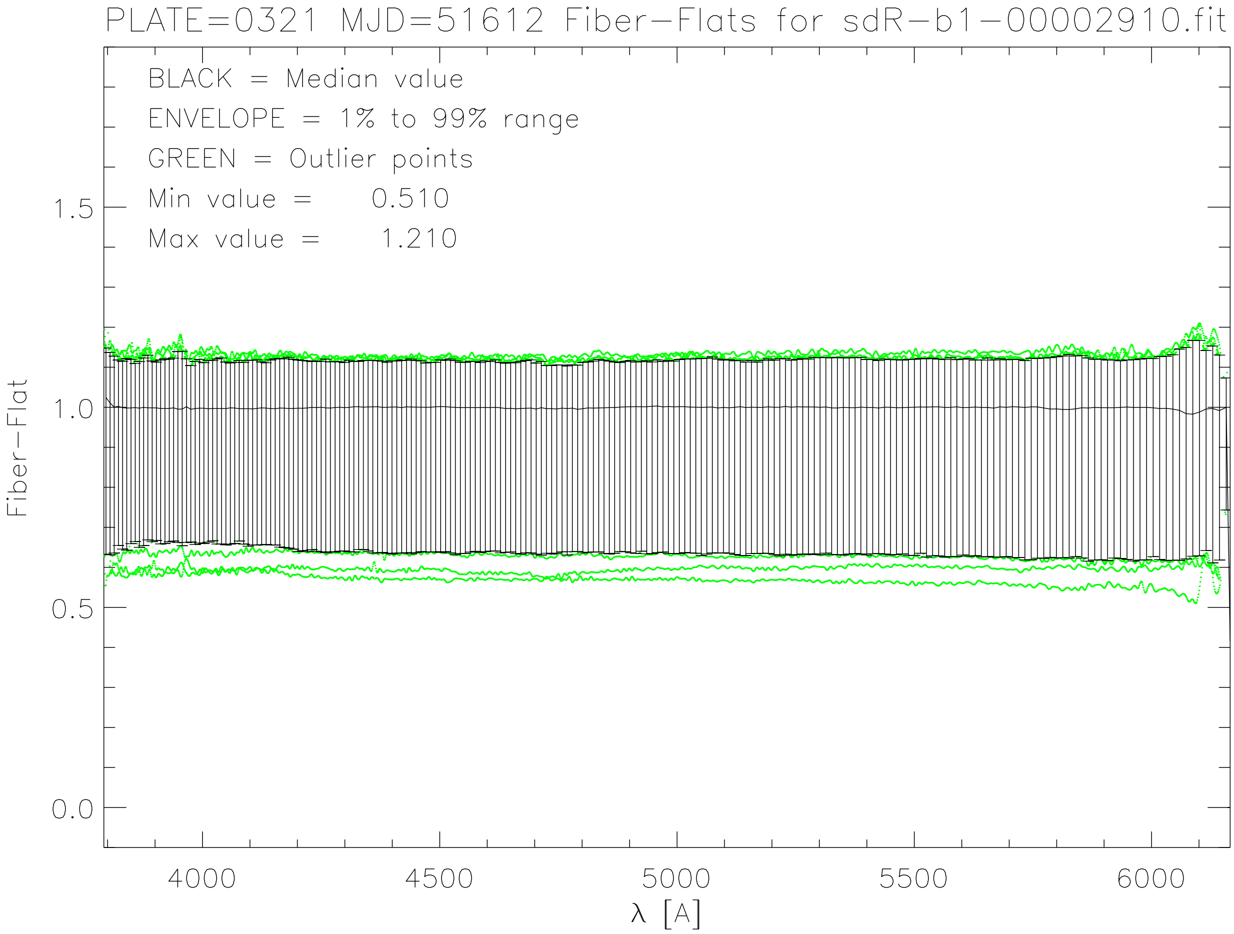
Number of sky fibers = 16

PLATE=0321 MJD=51612 sdR-b1-00002917.fit 2D Sky-subtraction Rescaled Errors




PLATE=0321 MJD=51612 sdR-b1-00002917.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
800
600
400
200
0
−200
−400
RED = sky fiber
Dispersion = 41.87 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
800
600
400
200
0
−200
−400
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
800
600
400
200
0
−200
−400
1.100
1.105
1.110
1.115
1.120
1.125
Airmass

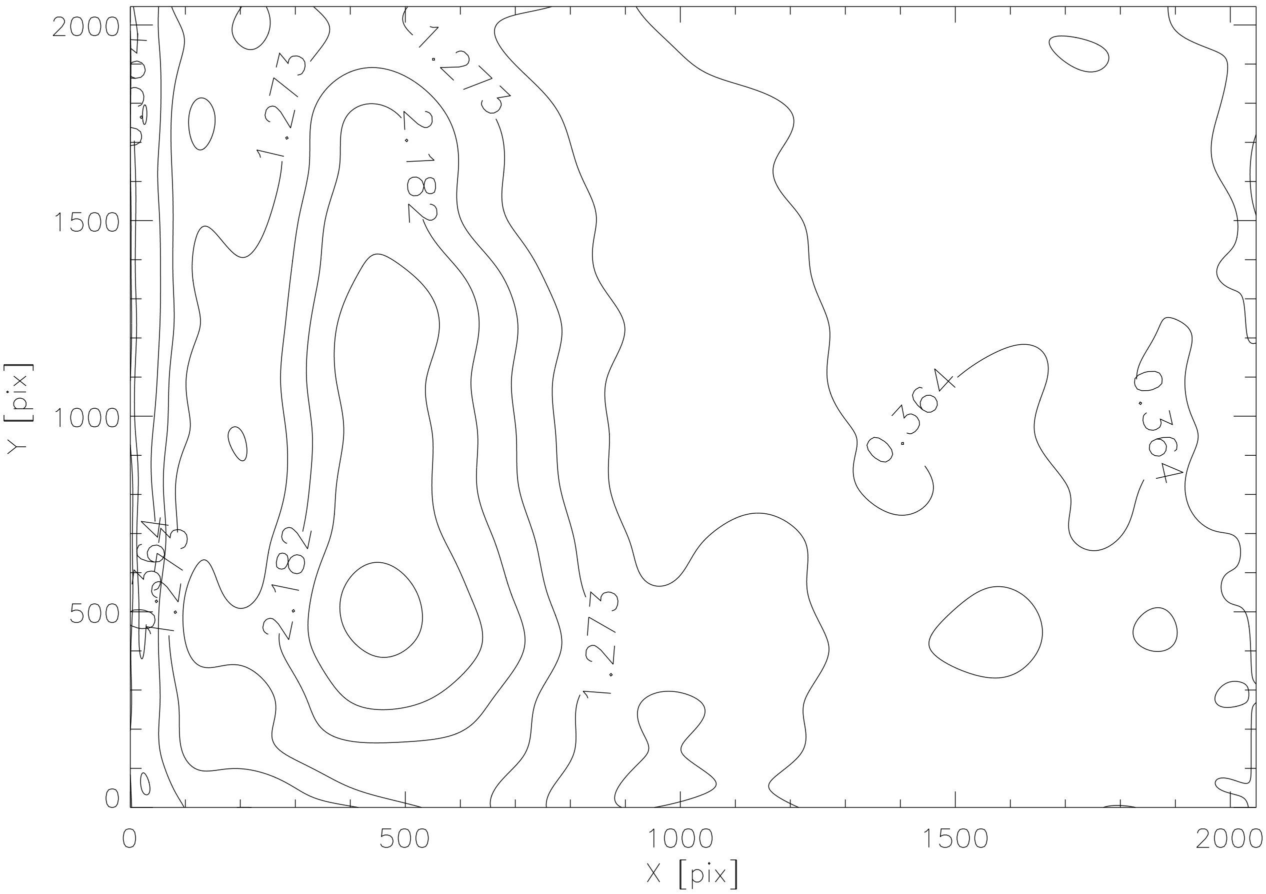

PLATE=0321 MJD=51612 sdR-b1-00002917.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
4800
4600
4400
4200
4000
3800
3600
RED = sky fiber
Dispersion = 1.66 %
0
50
100
150
200
250
300
Fiber number
Flux (5578.9)/Airmass
4800
4600
4400
4200
4000
3800
3600
0
100
200
300
400
Focal Distance [mm]
Flux (5578.9)/Airmass
4800
4600
4400
4200
4000
3800
3600
1.100
1.105
1.110
1.115
1.120
1.125
Airmass

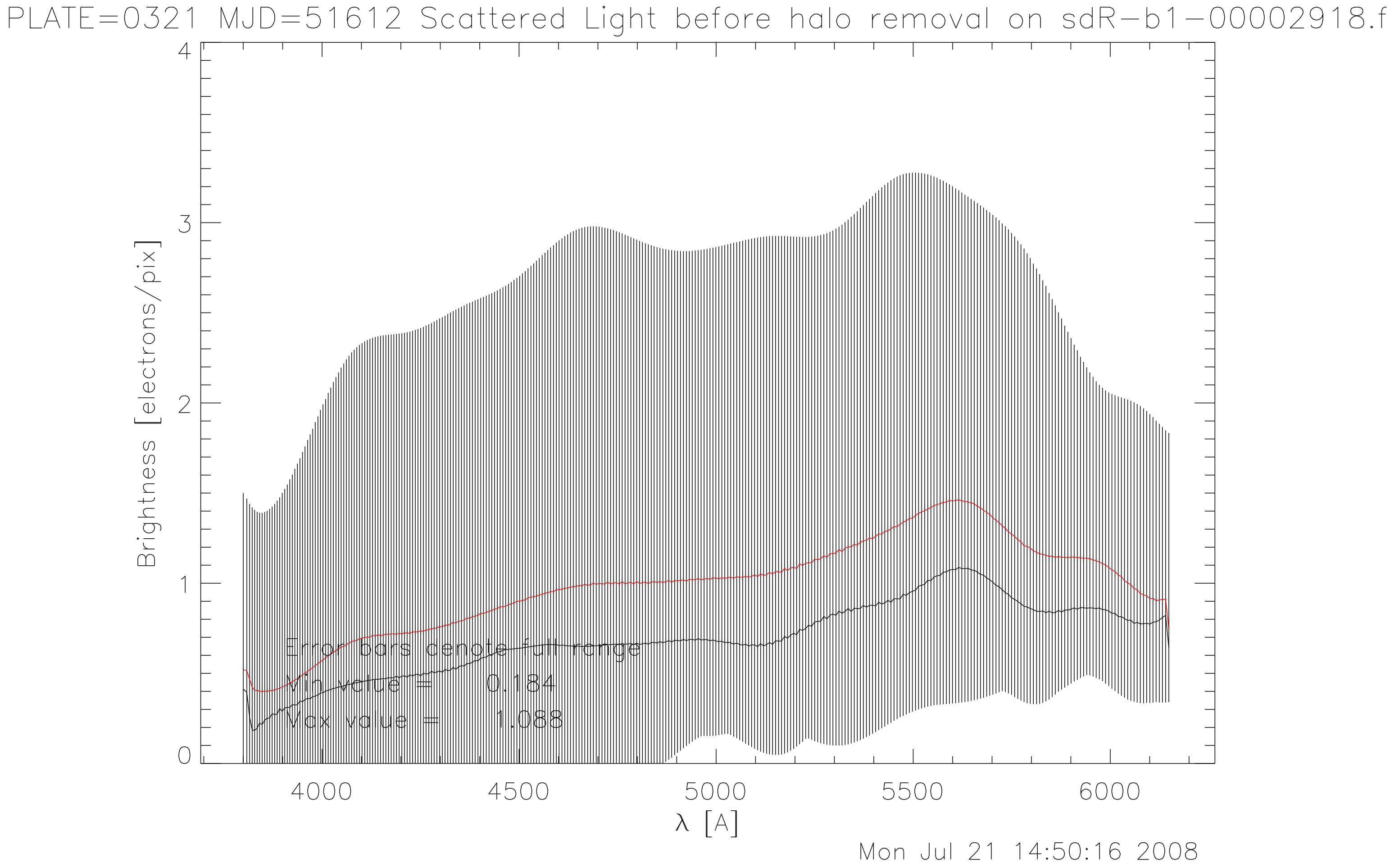


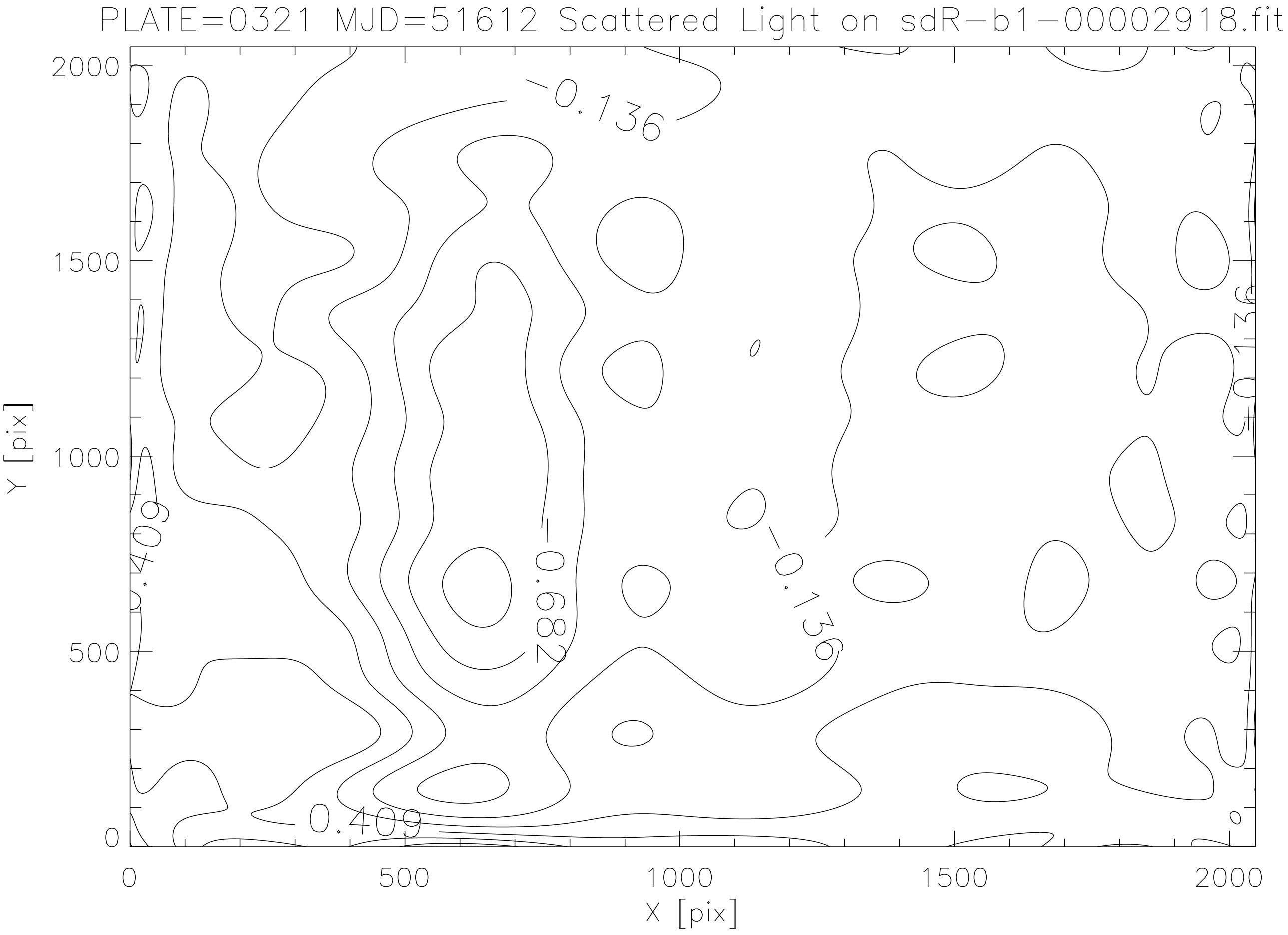
PLATE=0321 MJD=51612 Fiber-Flats for sdR-b1-00002910.fit

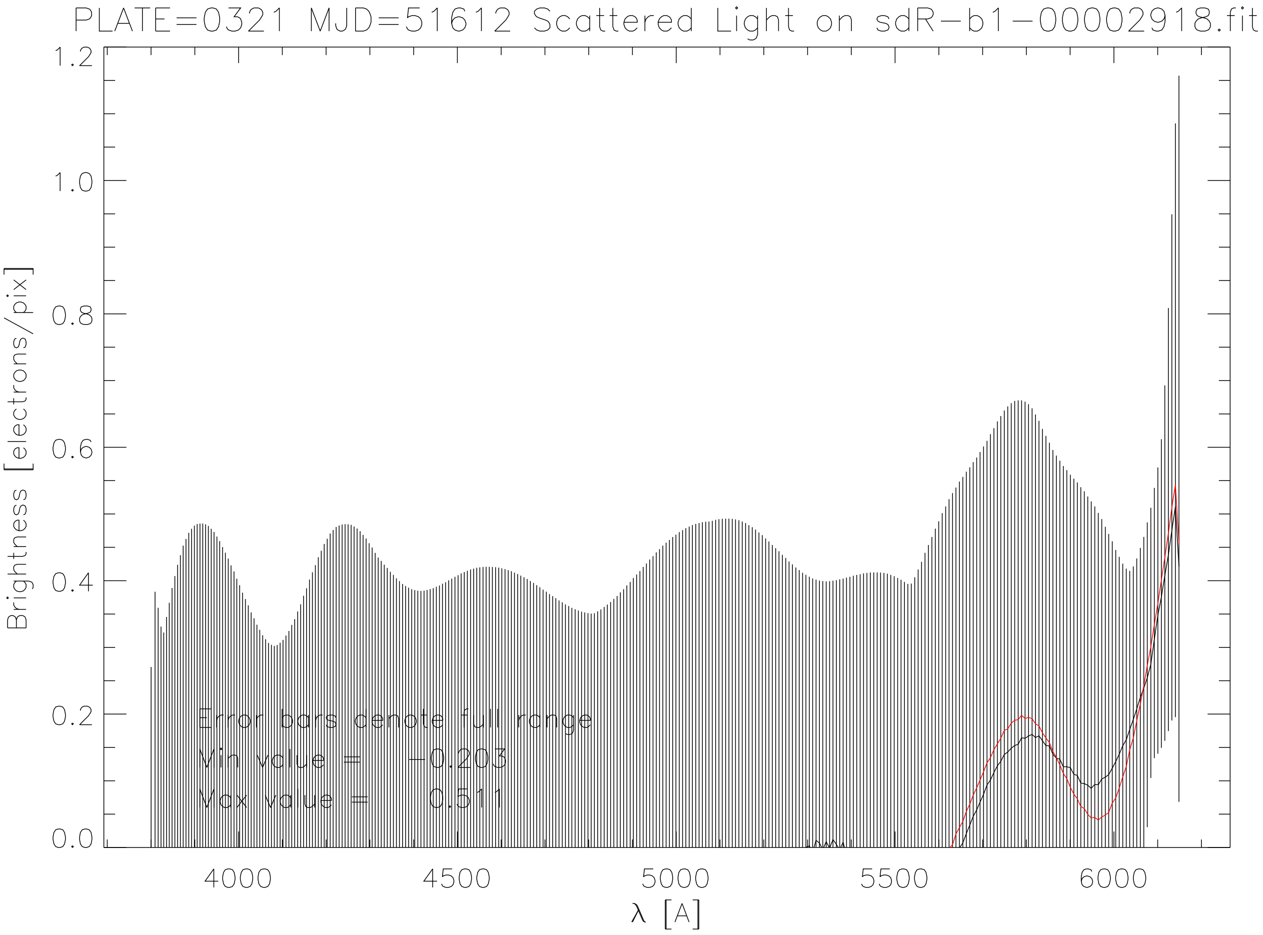
Mon Jul 21 14:49:20 2008

PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002918.f

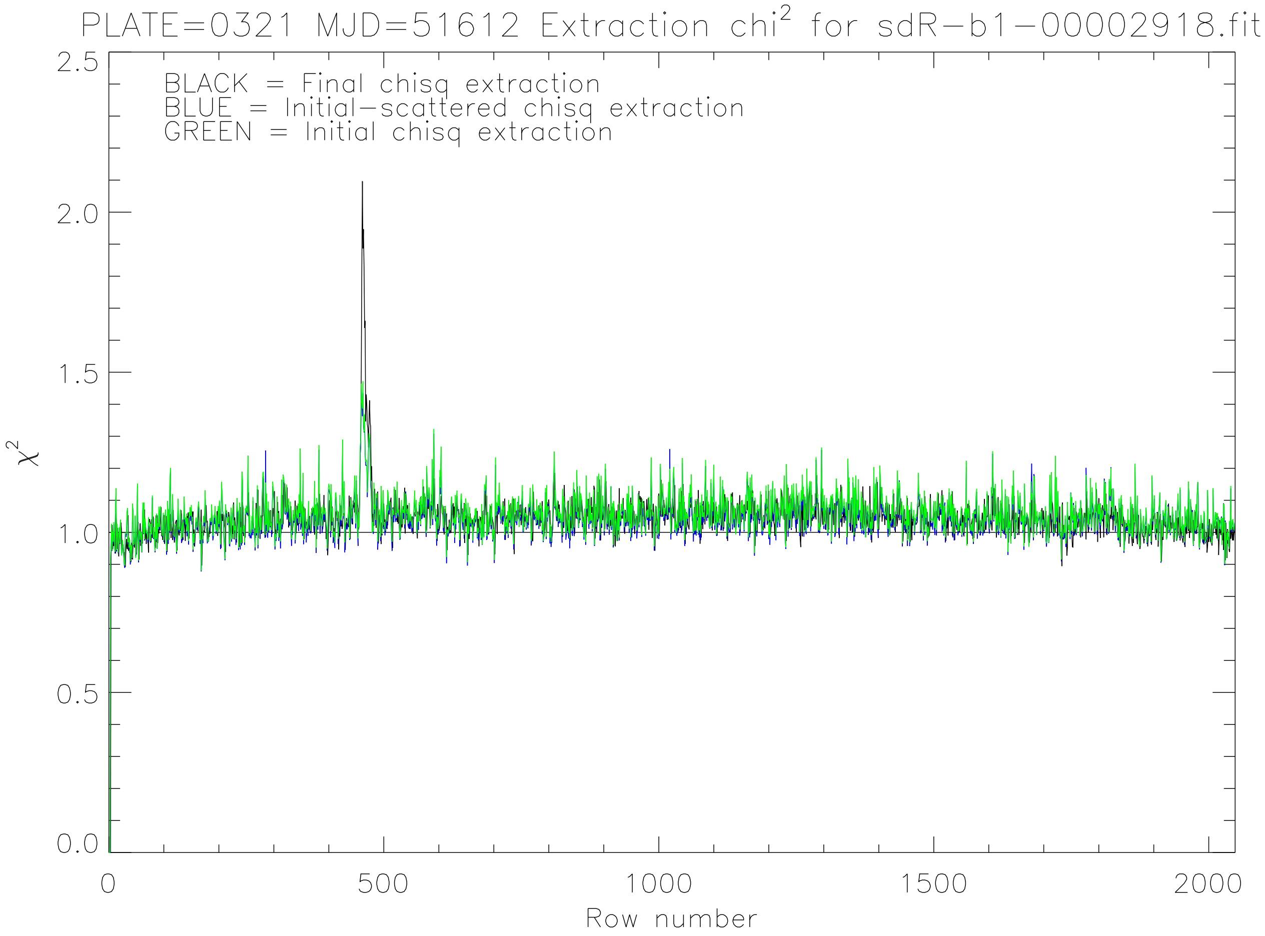


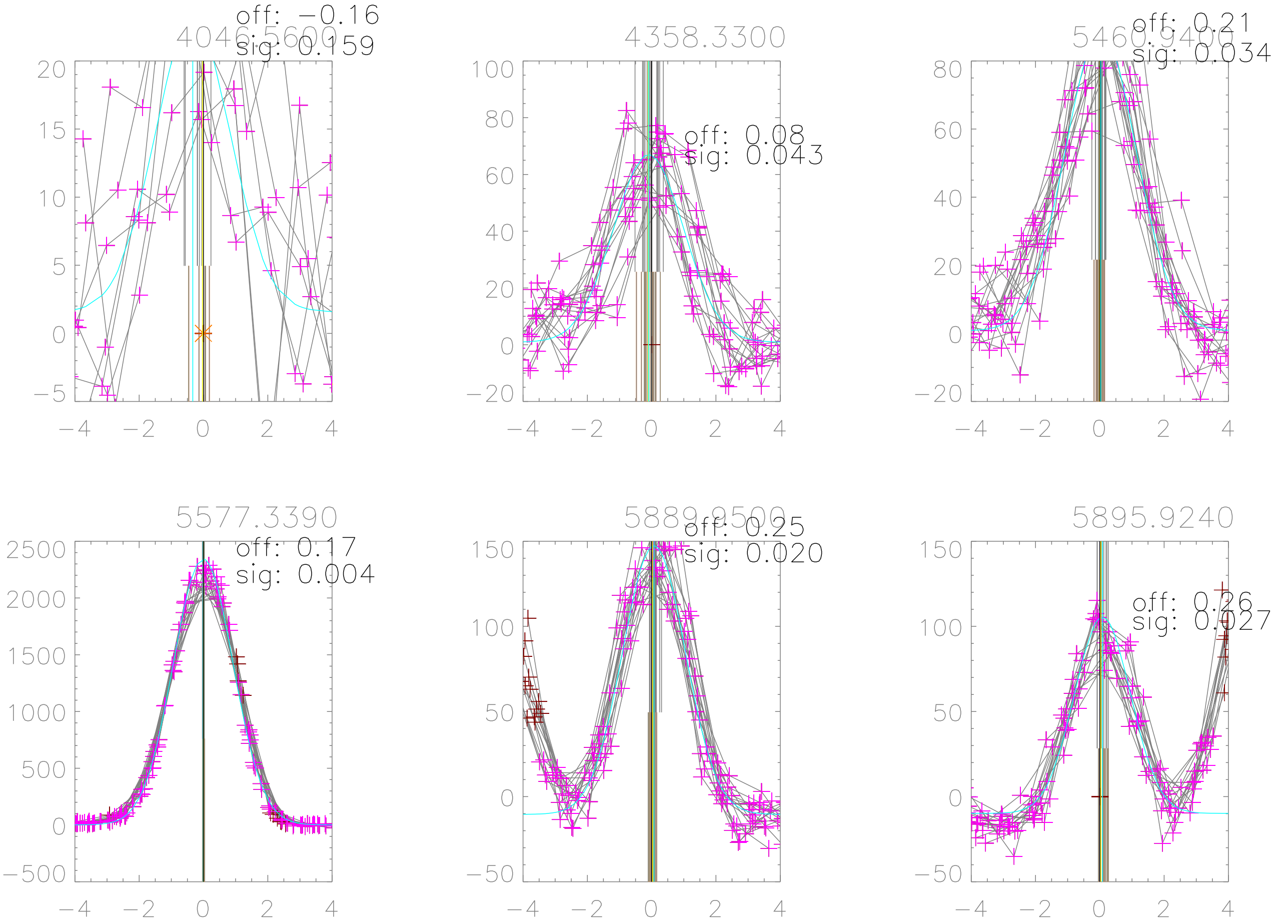

PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002918.f
Brightness [electrons/pix]
0
1
2
3
4
4000
4500
5000
5500
6000
λ [A]
Error bars denote full range
Min value = 0.184
Max value = 1.088
Mon Jul 21 14:50:16 2008

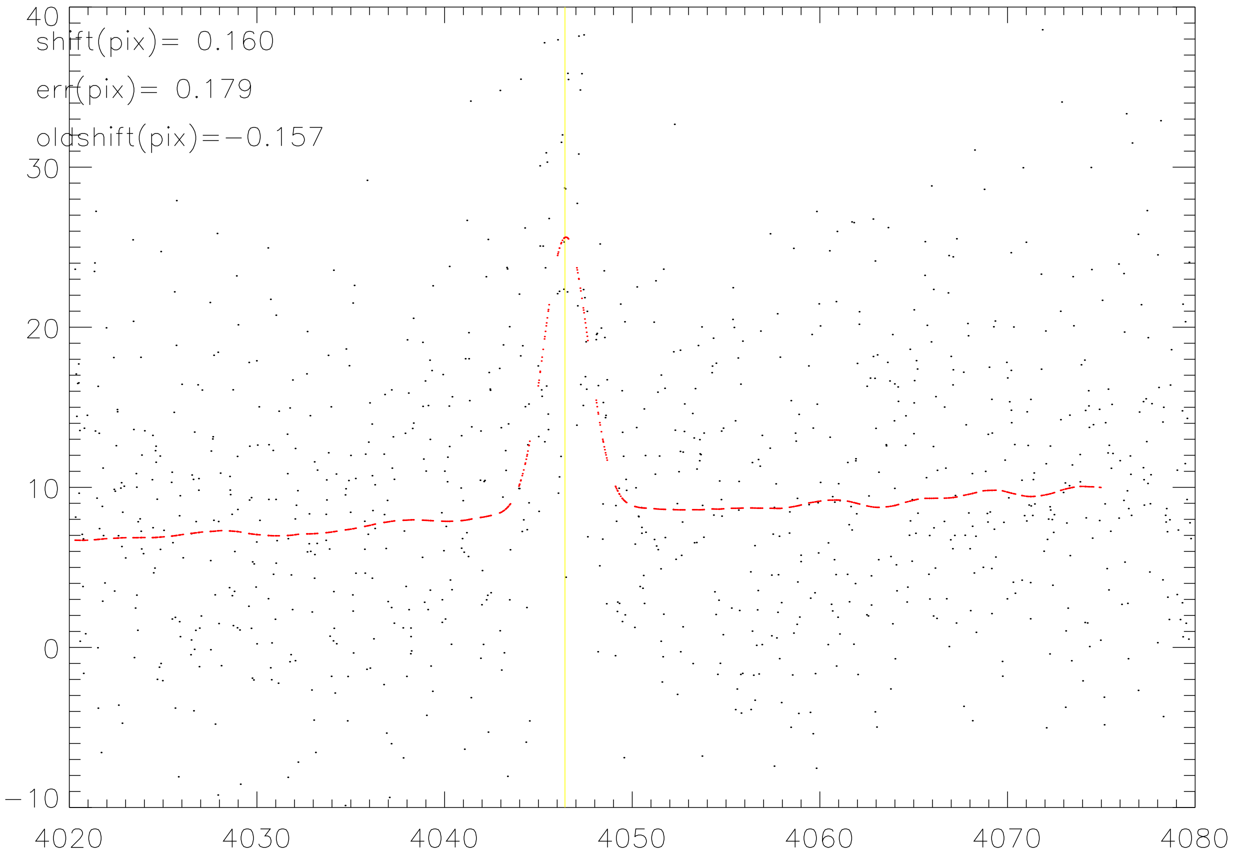

PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002918.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
-0.136
-0.682
-0.136
0.409
0.409
0.136

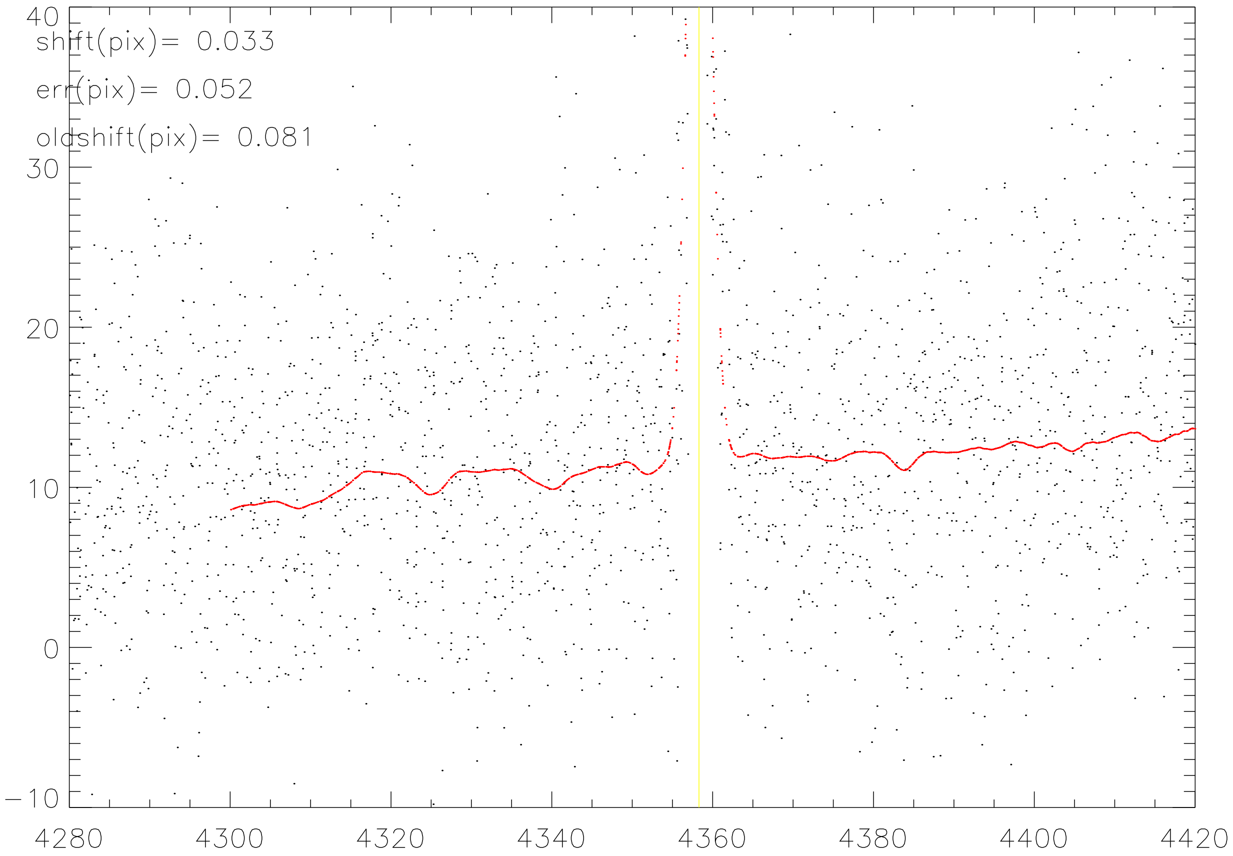


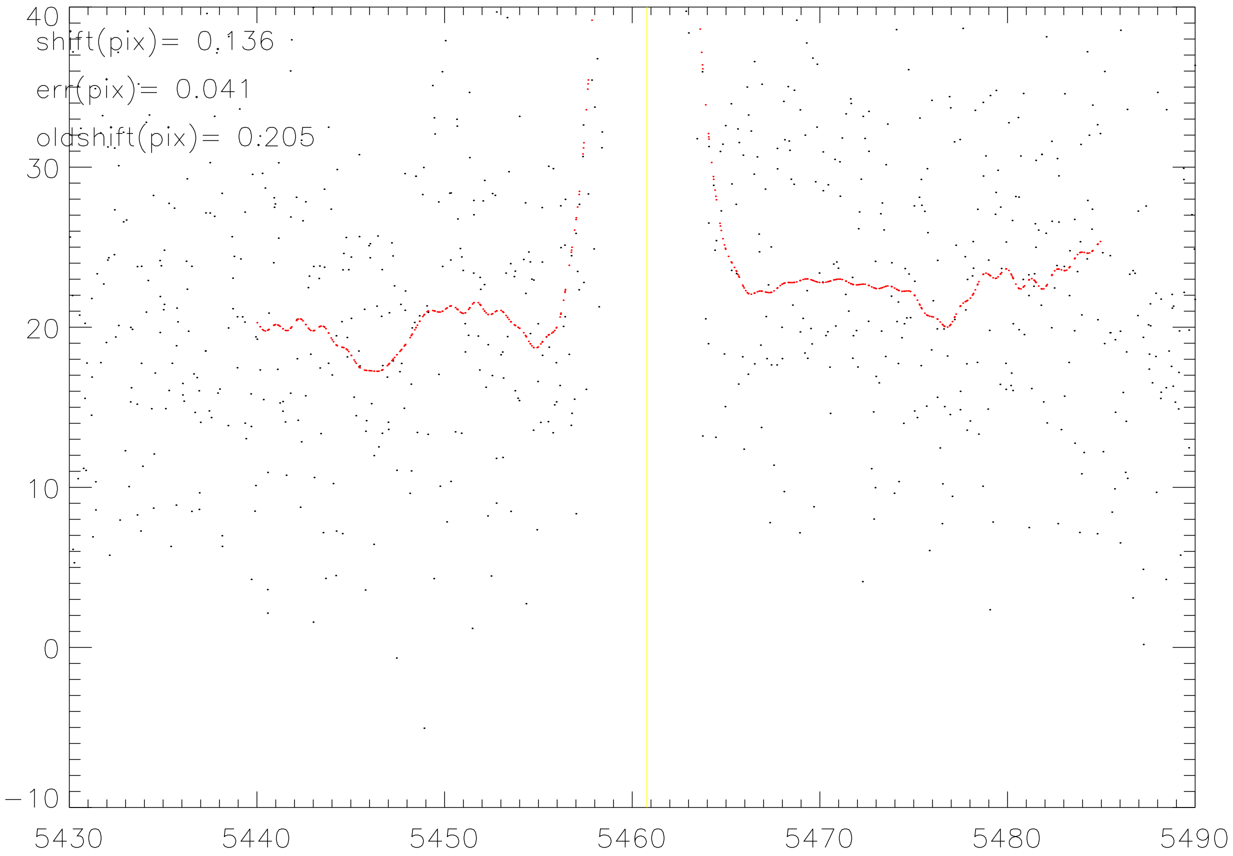
Mon Jul 21 14:53:25 2008

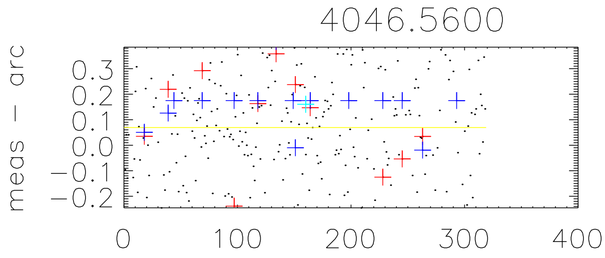

PLATE=0321 MJD=51612 Extraction chi^2 for sdR-b1-00002918.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0.0
0.5
1.0
1.5
2.0
2.5
0
500
1000
1500
2000
Row number

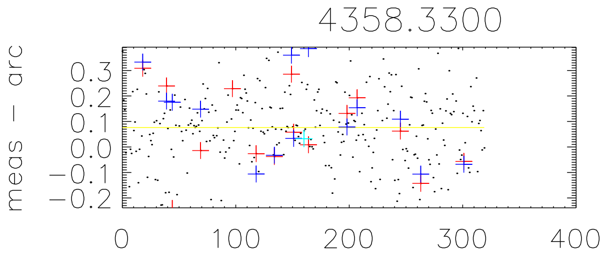

4046.5600
off: −0.16
sig: 0.159
20
15
10
5
0
−5
−4
−2
0
2
4
4358.3300
off: 0.08
sig: 0.043
100
80
60
40
20
0
−20
5460.9400
off: 0.21
sig: 0.034
80
60
40
20
0
−20
5577.3390
off: 0.17
sig: 0.004
2500
2000
1500
1000
500
0
−500
5889.9500
off: 0.25
sig: 0.020
150
100
50
0
−50
5895.9240
off: 0.26
sig: 0.027
150
100
50
0
−50

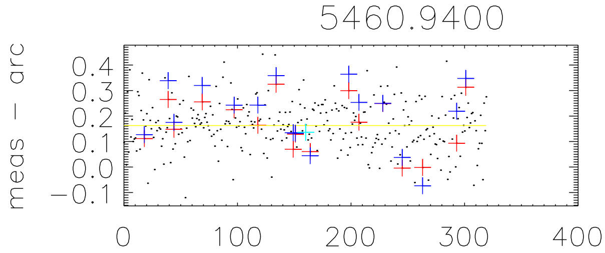

shift(pix)= 0.160
err(pix)= 0.179
oldshift(pix)=−0.157
40
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

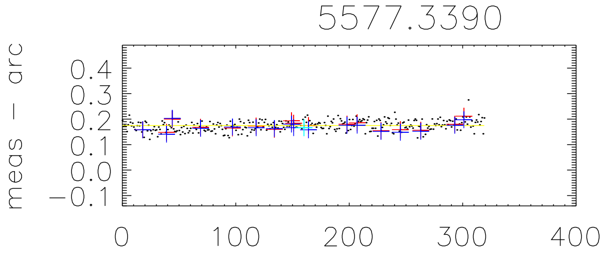

shift(pix)= 0.033
err(pix)= 0.052
oldshift(pix)= 0.081
40
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

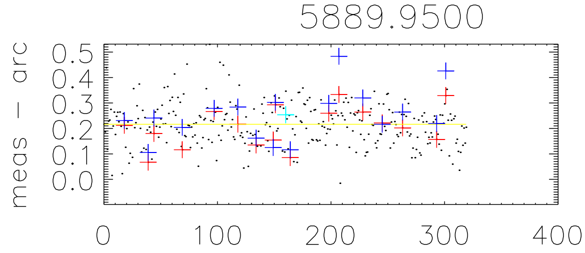

shift(pix)= 0.136
err(pix)= 0.041
oldshift(pix)= 0.205
40
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

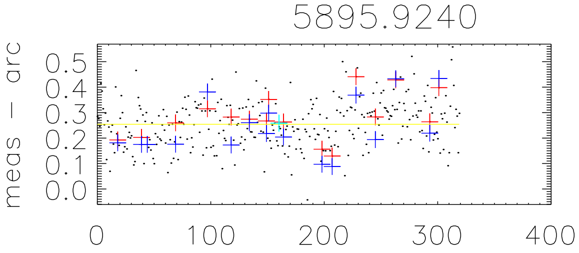

4046.5600
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

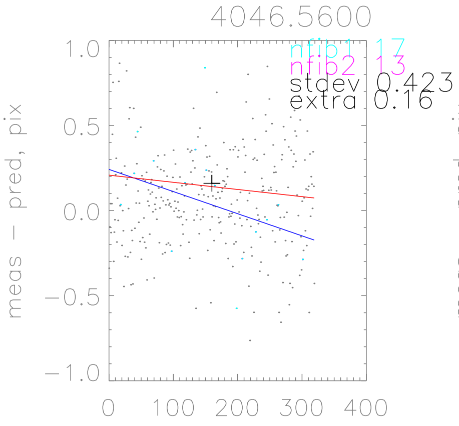

4358.3300
meas − arc
0.3
0.2
0.1
0.0
−0.1
−0.2
0
100
200
300
400

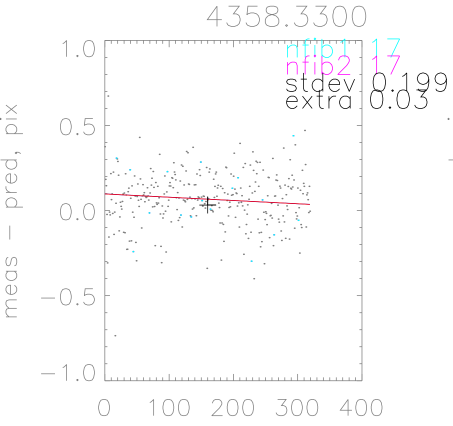

5460.9400
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

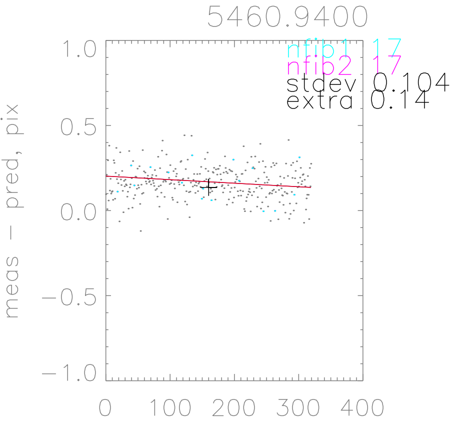

5577.3390
meas − arc
0.4
0.3
0.2
0.1
0.0
−0.1
0
100
200
300
400

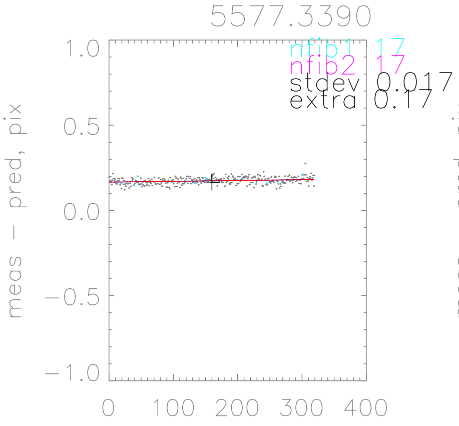

5889.9500
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

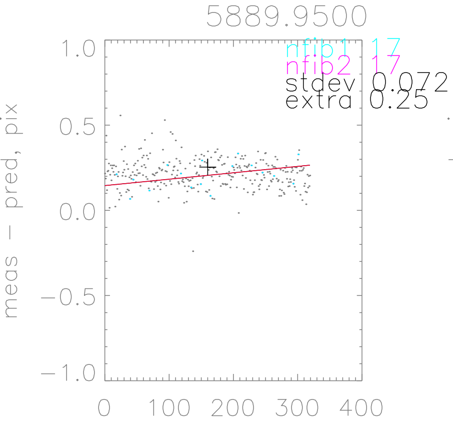

5895.9240
meas − arc
0.5
0.4
0.3
0.2
0.1
0.0
0
100
200
300
400

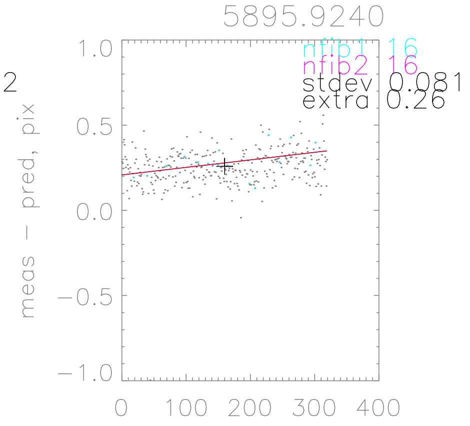

4046.5600
nfib1 17
nfib2 13
stdev 0.423
extra 0.16
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

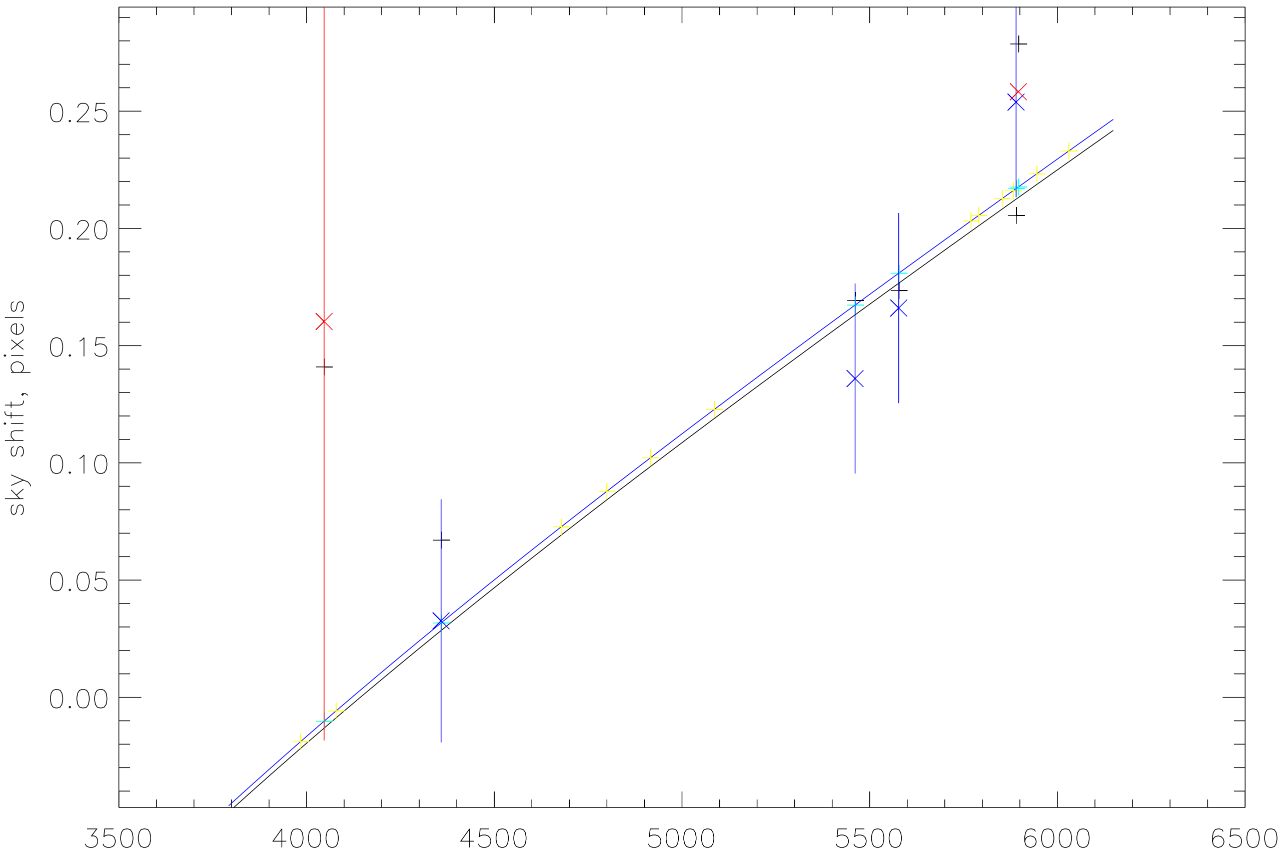

4358.3300
nfib1 17
nfib2 17
stdev 0.199
extra 0.03
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

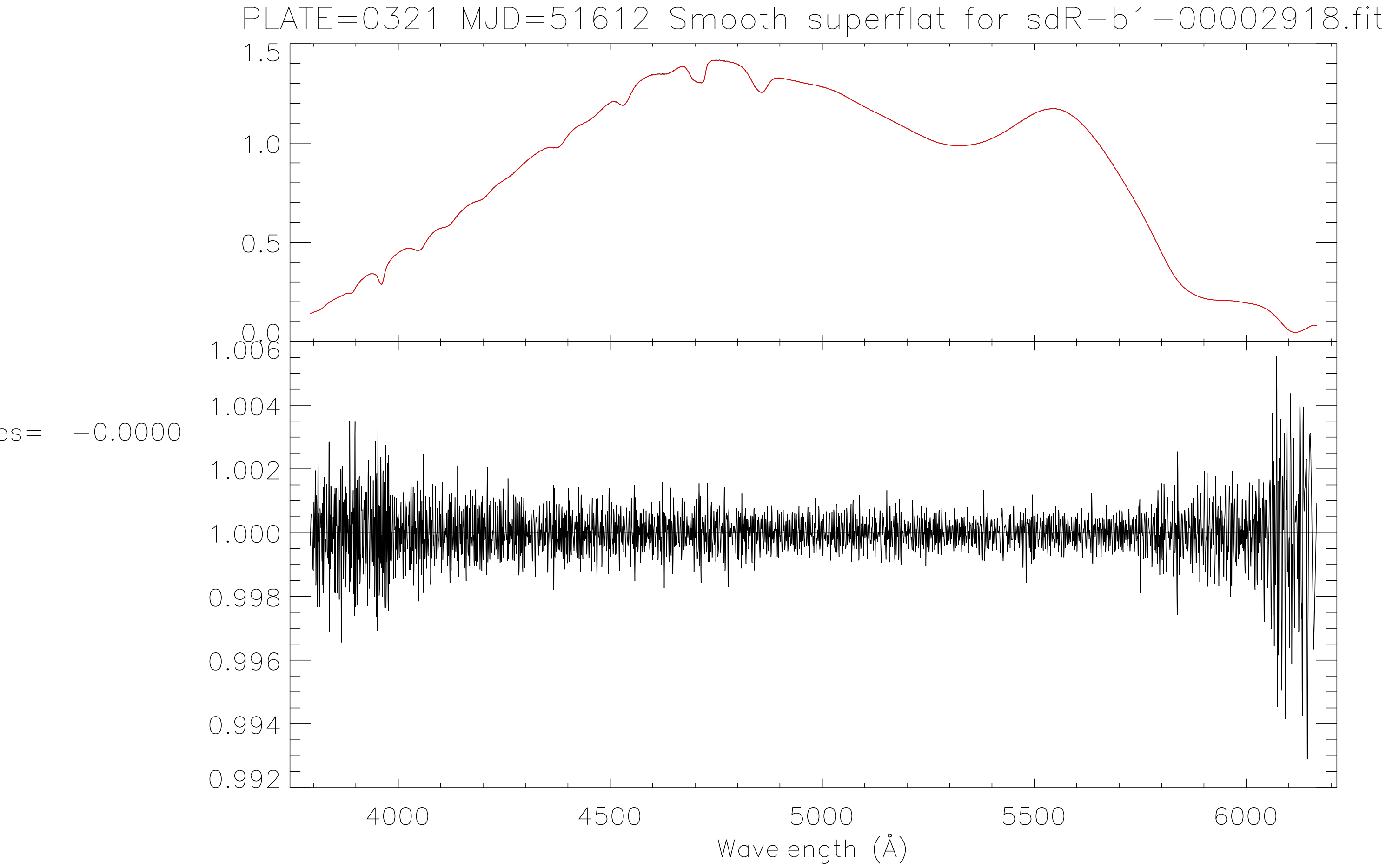

5460.9400
nfib1 17
nfib2 17
stdev 0.104
extra 0.14
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

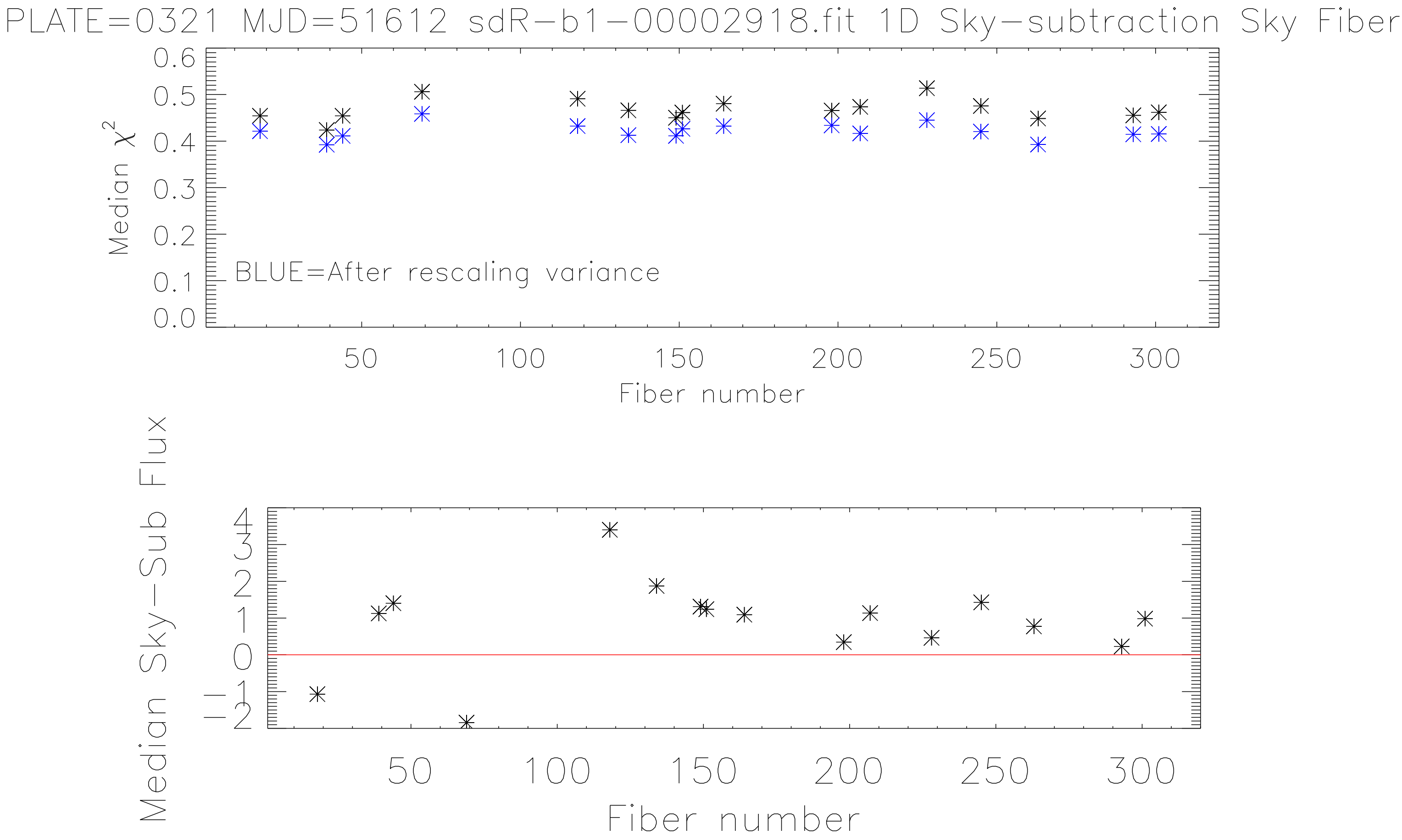

5577.3390
nfib1 17
nfib2 17
stdev 0.017
extra 0.17
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

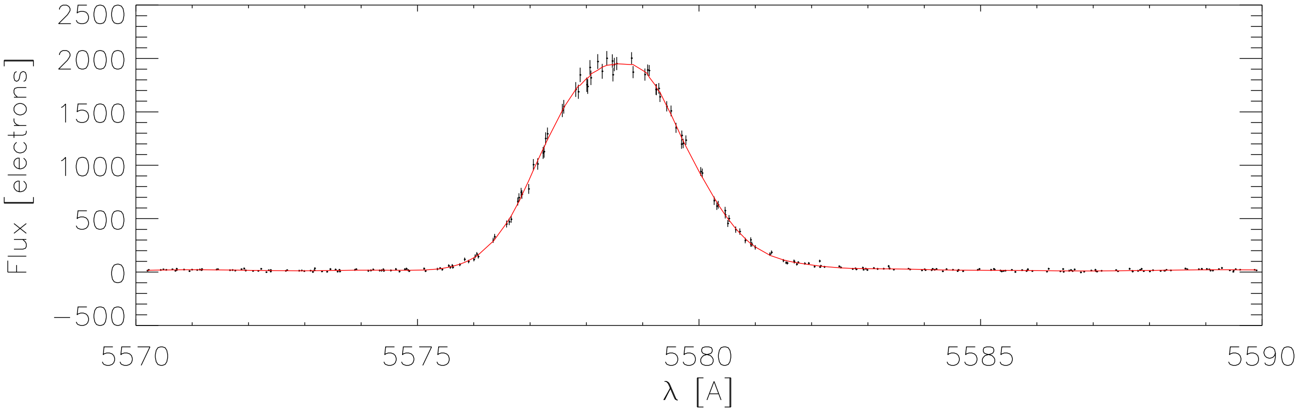

5889.9500
nfib1 17
nfib2 17
stdev 0.072
extra 0.25
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

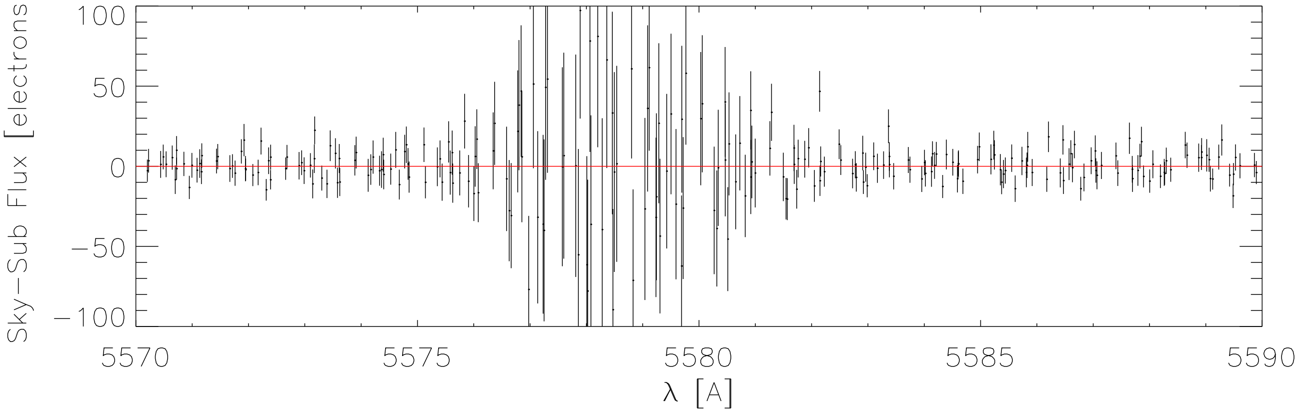

5895.9240
nfib1 16
nfib2 16
stdev 0.081
extra 0.26
meas − pred, pix
1.0
0.5
0.0
−0.5
−1.0
0
100
200
300
400

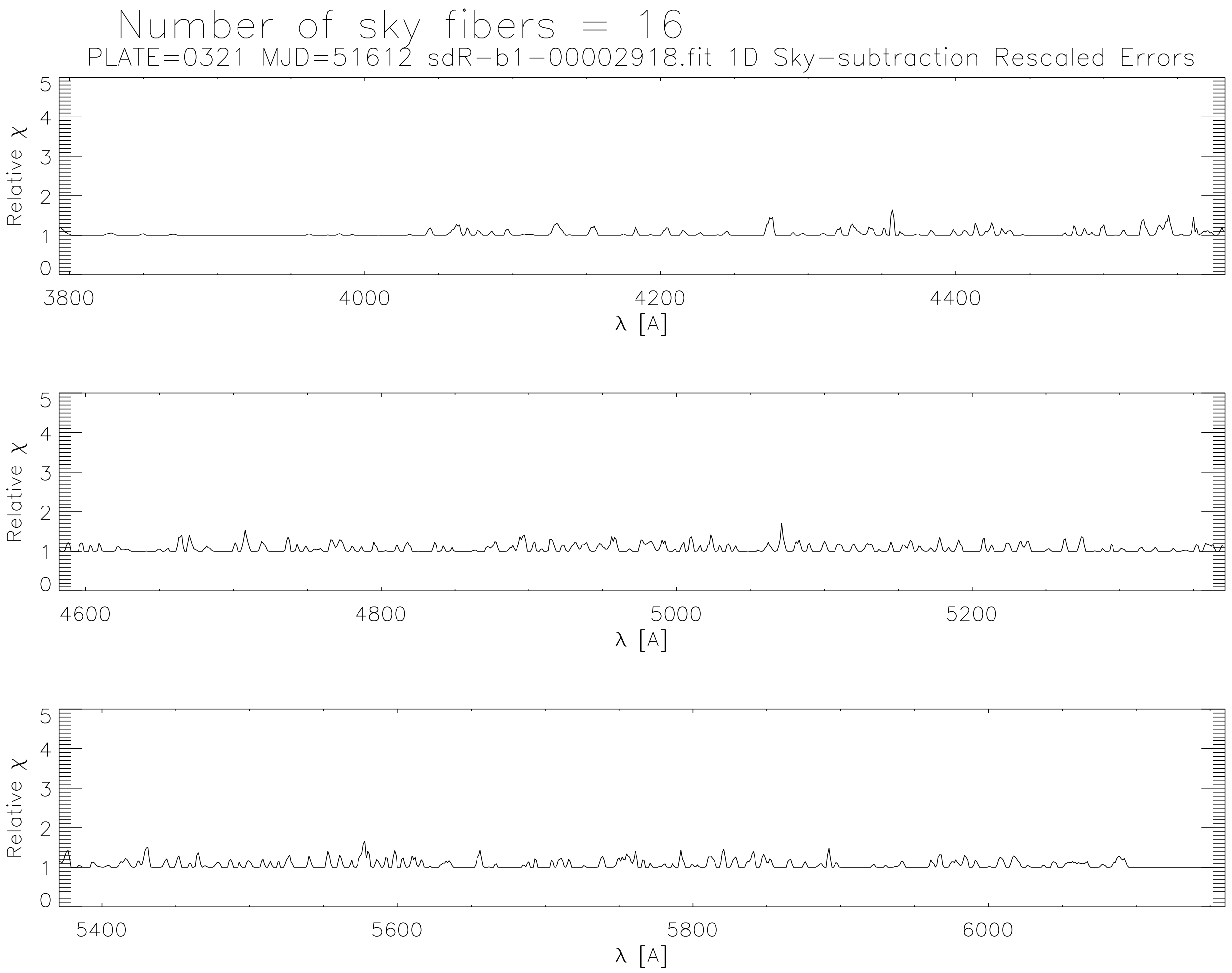

sky shift, pixels
0.25
0.20
0.15
0.10
0.05
0.00
3500
4000
4500
5000
5500
6000
6500

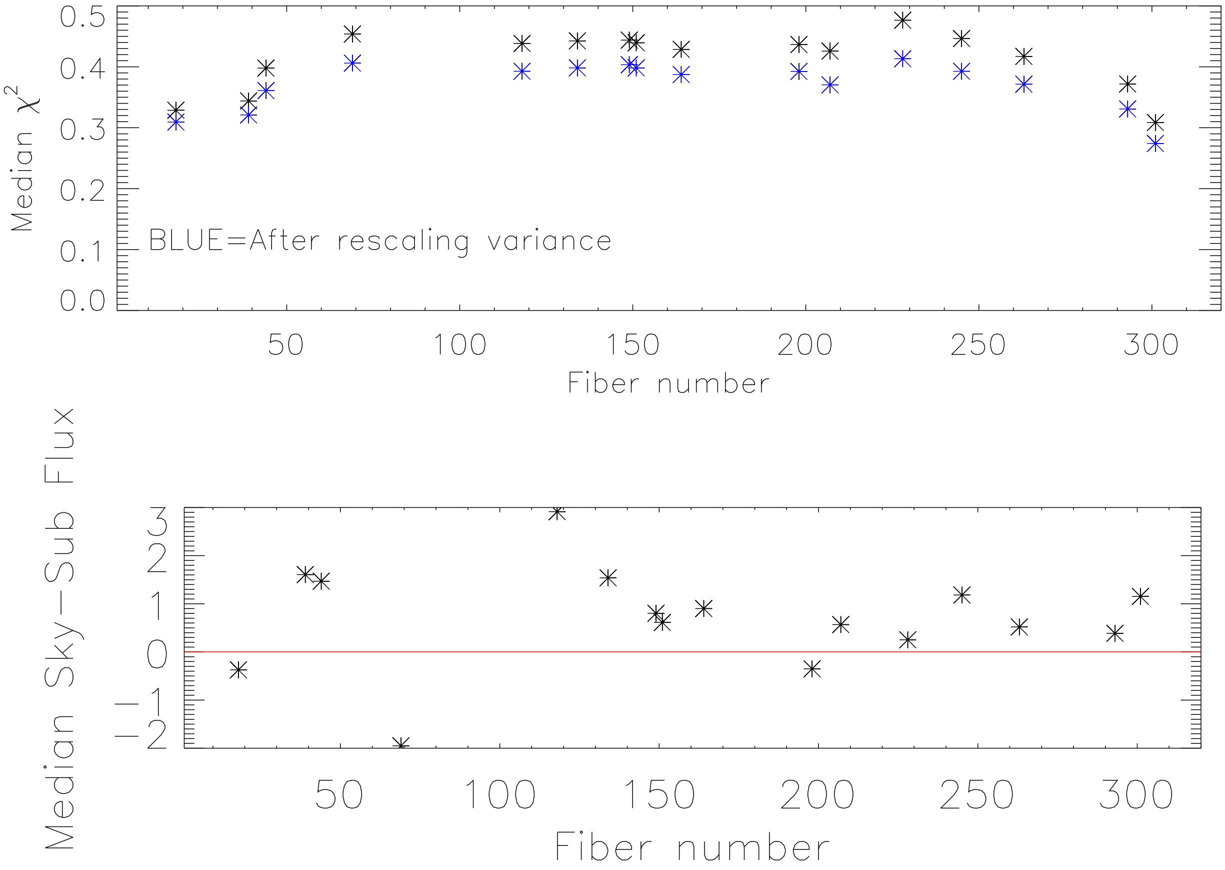

PLATE=0321 MJD=51612 Smooth superflat for sdR-b1-00002918.fit
1.5
1.0
0.5
0.0
1.006
1.004
1.002
1.000
0.998
0.996
0.994
0.992
es= −0.0000
4000
4500
5000
5500
6000
Wavelength (Å)


PLATE=0321 MJD=51612 sdR-b1-00002918.fit 1D Sky-subtraction Sky Fiber

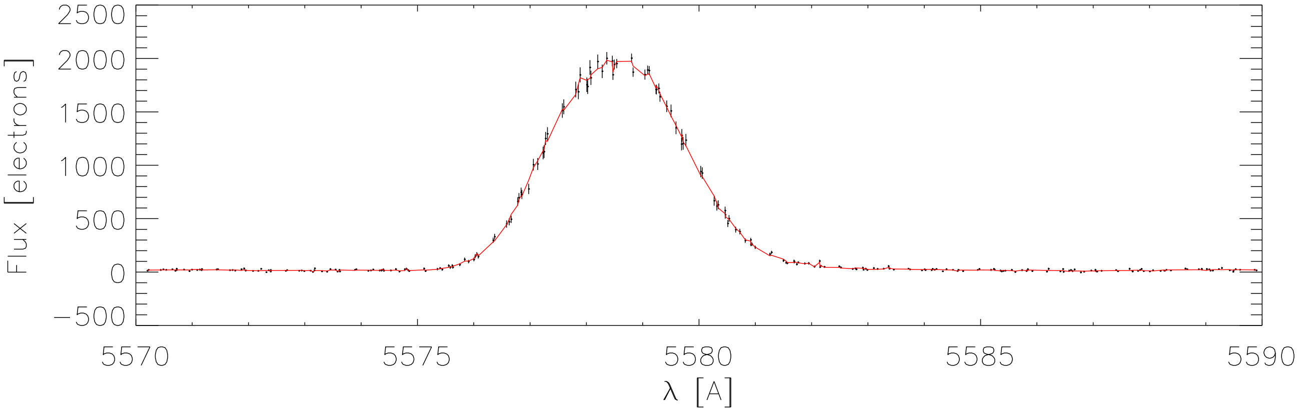

PLATE=0321 MJD=51612 sdR-b1-00002918.fit 1D Sky-subtraction Sky Fibers


PLATE=0321 MJD=51612 sdR-b1-00002918.fit 1D Sky-subtraction Sky-subtracted Sky F

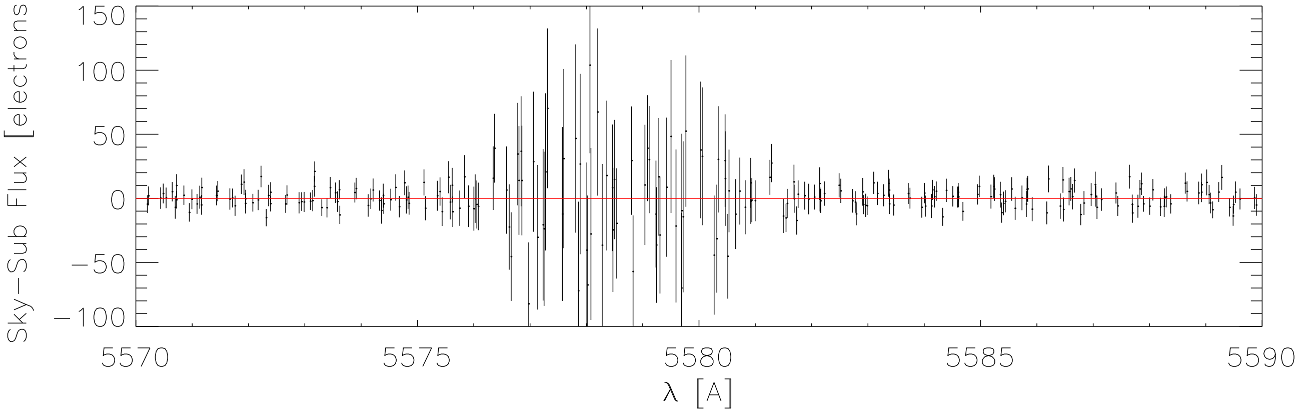

Number of sky fibers = 16
PLATE=0321 MJD=51612 sdR-b1-00002918.fit 1D Sky-subtraction Rescaled Errors
Relative χ
0
1
2
3
4
5
3800
4000
4200
4400
λ [A]
Relative χ
0
1
2
3
4
5
4600
4800
5000
5200
λ [A]
Relative χ
0
1
2
3
4
5
5400
5600
5800
6000
λ [A]



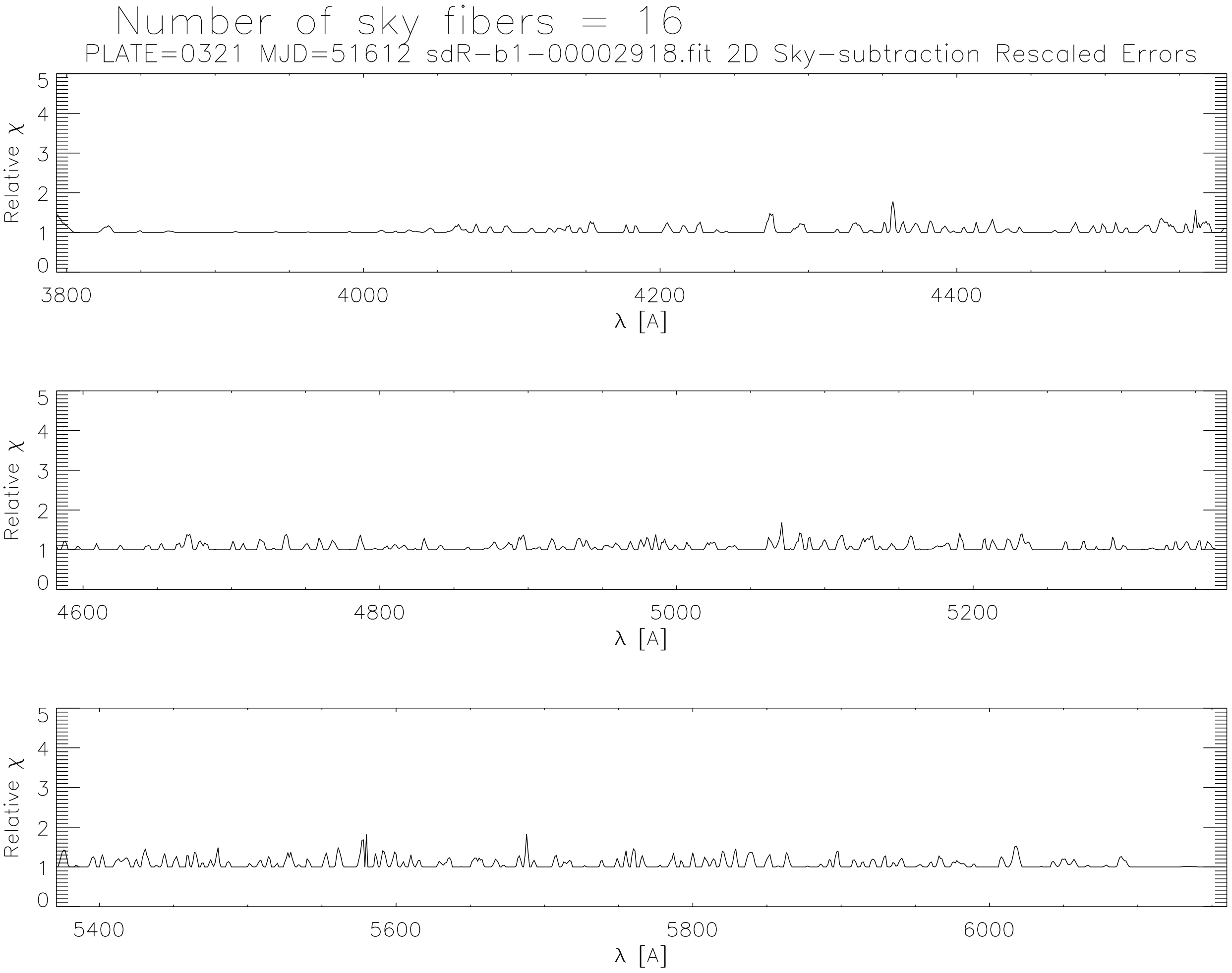
PLATE=0321 MJD=51612 sdR-b1-00002918.fit 2D Sky-subtraction Sky Fiber



PLATE=0321 MJD=51612 sdR-b1-00002918.fit 2D Sky-subtraction Sky Fibers

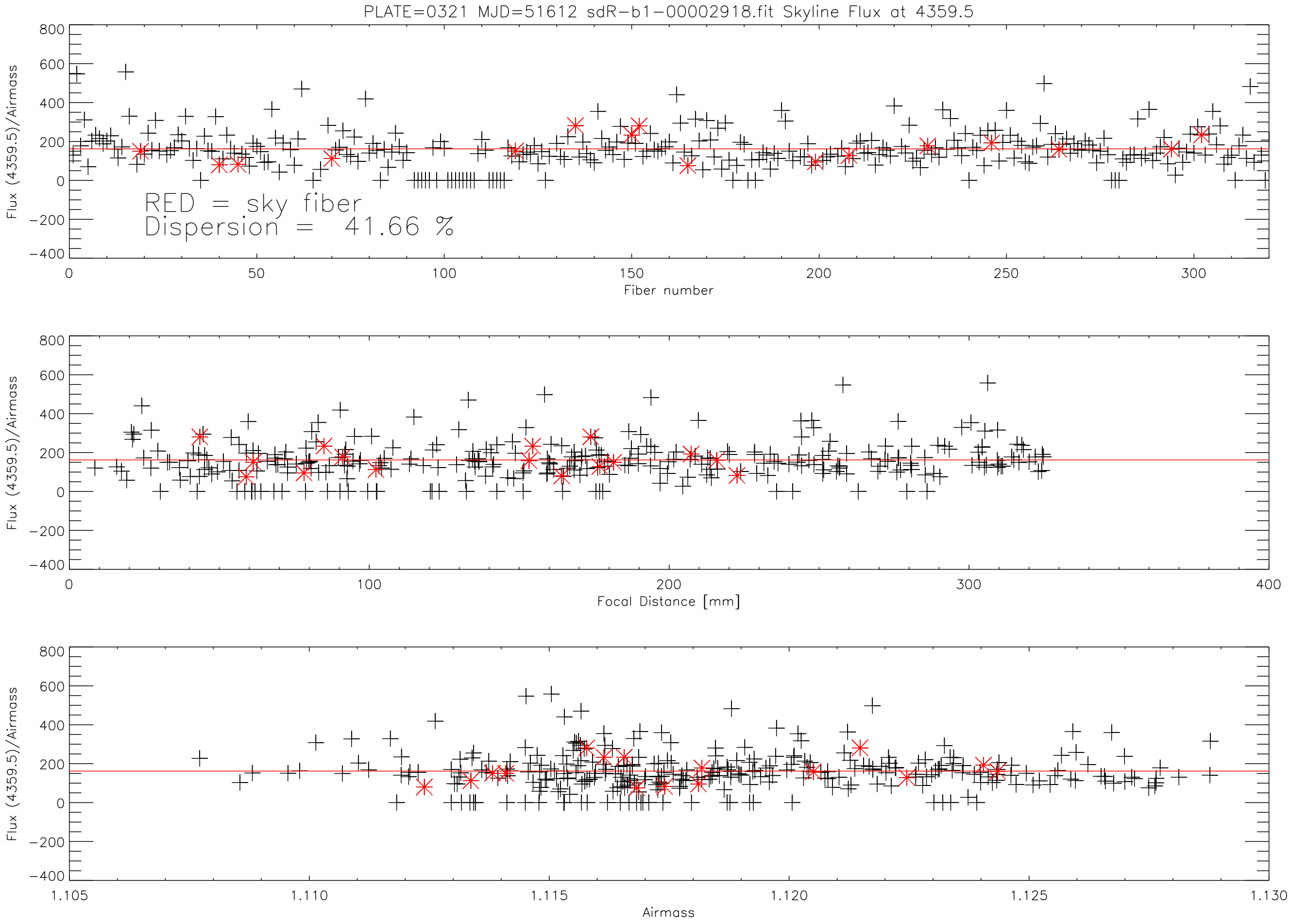


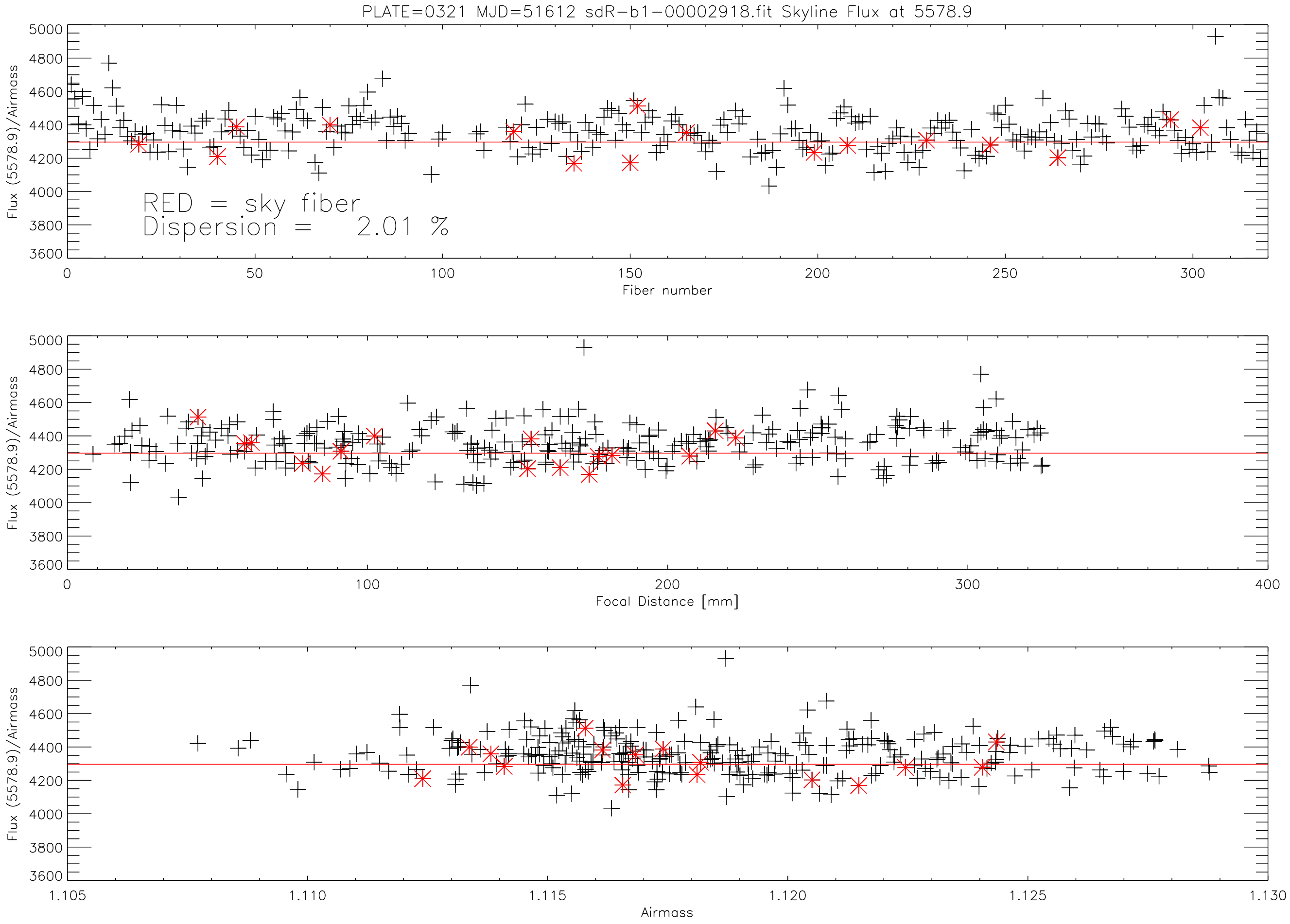
PLATE=0321 MJD=51612 sdR-b1-00002918.fit 2D Sky-subtraction Sky-subtracted Sky F

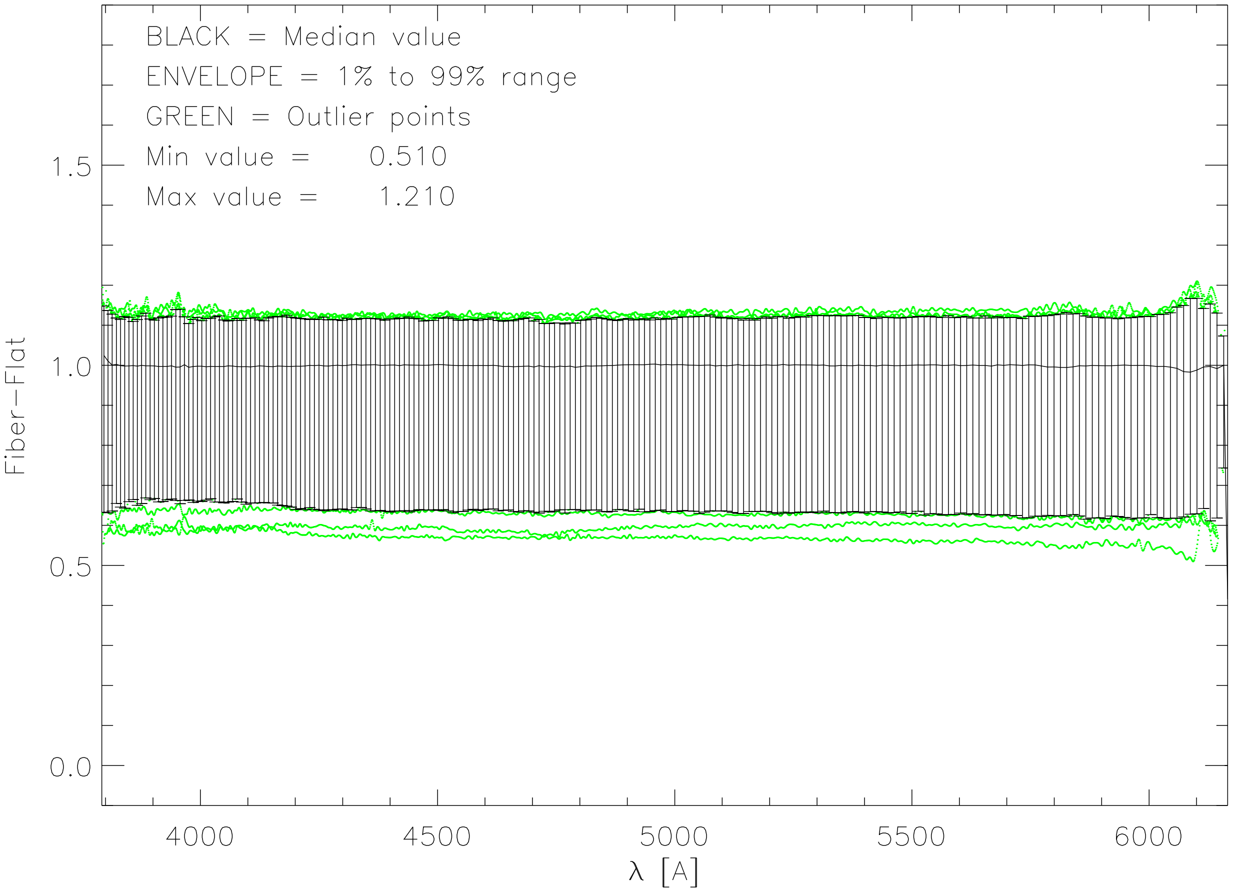


Number of sky fibers = 16

PLATE=0321 MJD=51612 sdR-b1-00002918.fit 2D Sky-subtraction Rescaled Errors

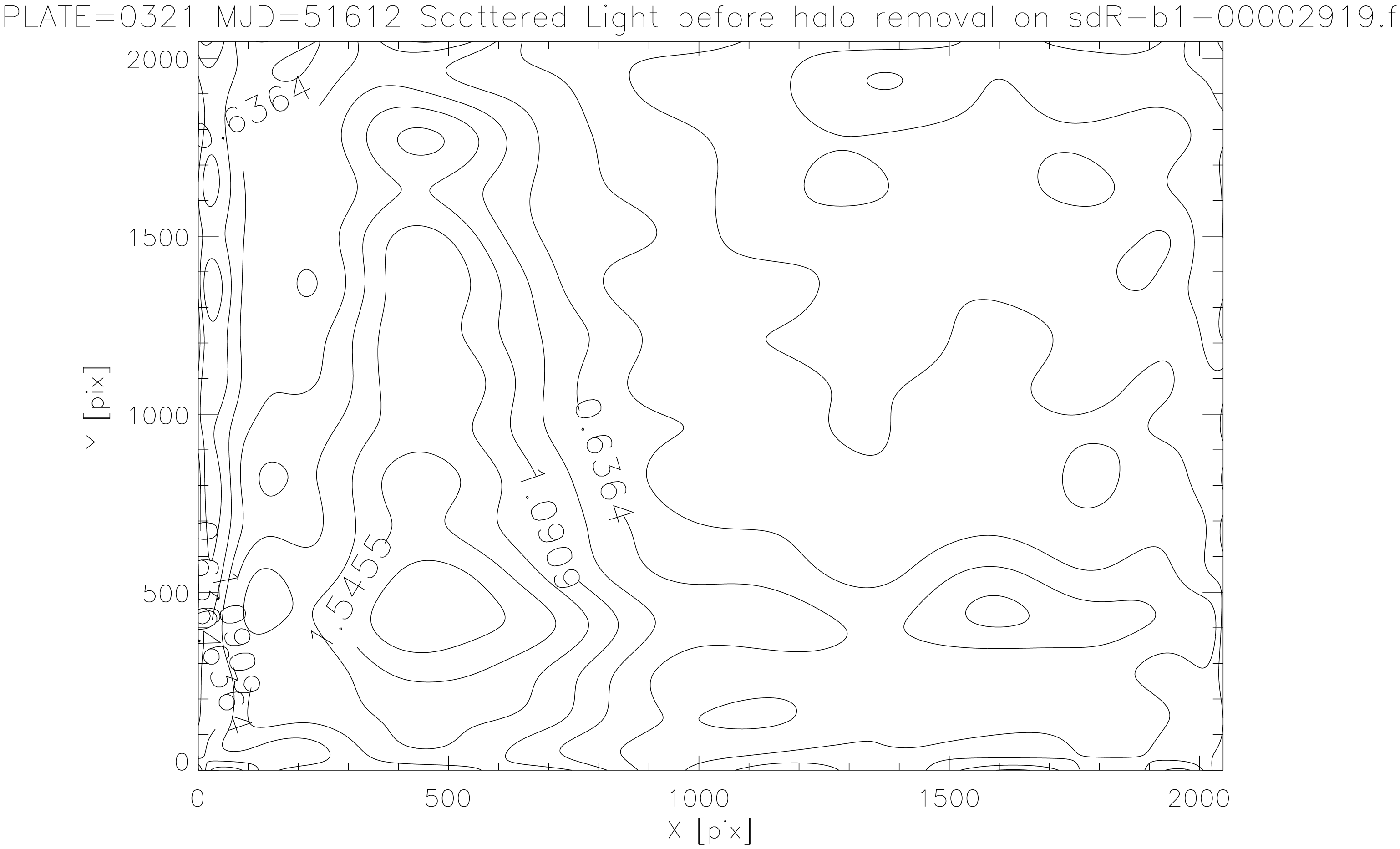

PLATE=0321 MJD=51612 sdR-b1-00002918.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
800
600
400
200
0
−200
−400
RED = sky fiber
Dispersion = 41.66 %
0
50
100
150
200
250
300
Fiber number
Flux (4359.5)/Airmass
800
600
400
200
0
−200
−400
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
800
600
400
200
0
−200
−400
1.105
1.110
1.115
1.120
1.125
1.130
Airmass


PLATE=0321 MJD=51612 sdR-b1-00002918.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
5000
4800
4600
4400
4200
4000
3800
3600
RED = sky fiber
Dispersion = 2.01 %
0
50
100
150
200
250
300
Fiber number
0
100
200
300
400
Focal Distance [mm]
1.105
1.110
1.115
1.120
1.125
1.130
Airmass



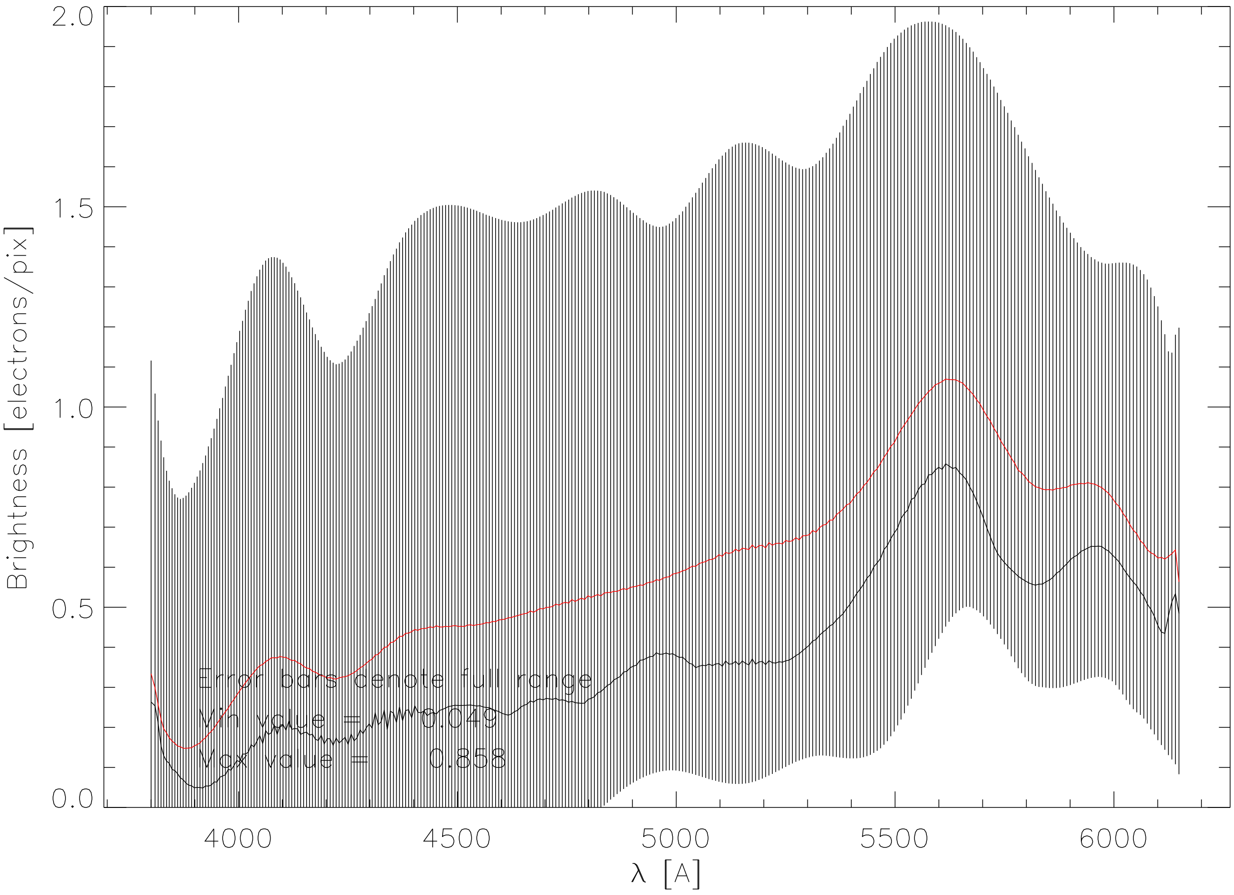
PLATE=0321 MJD=51612 Fiber-Flats for sdR-b1-00002910.fit

Mon Jul 21 14:55:13 2008

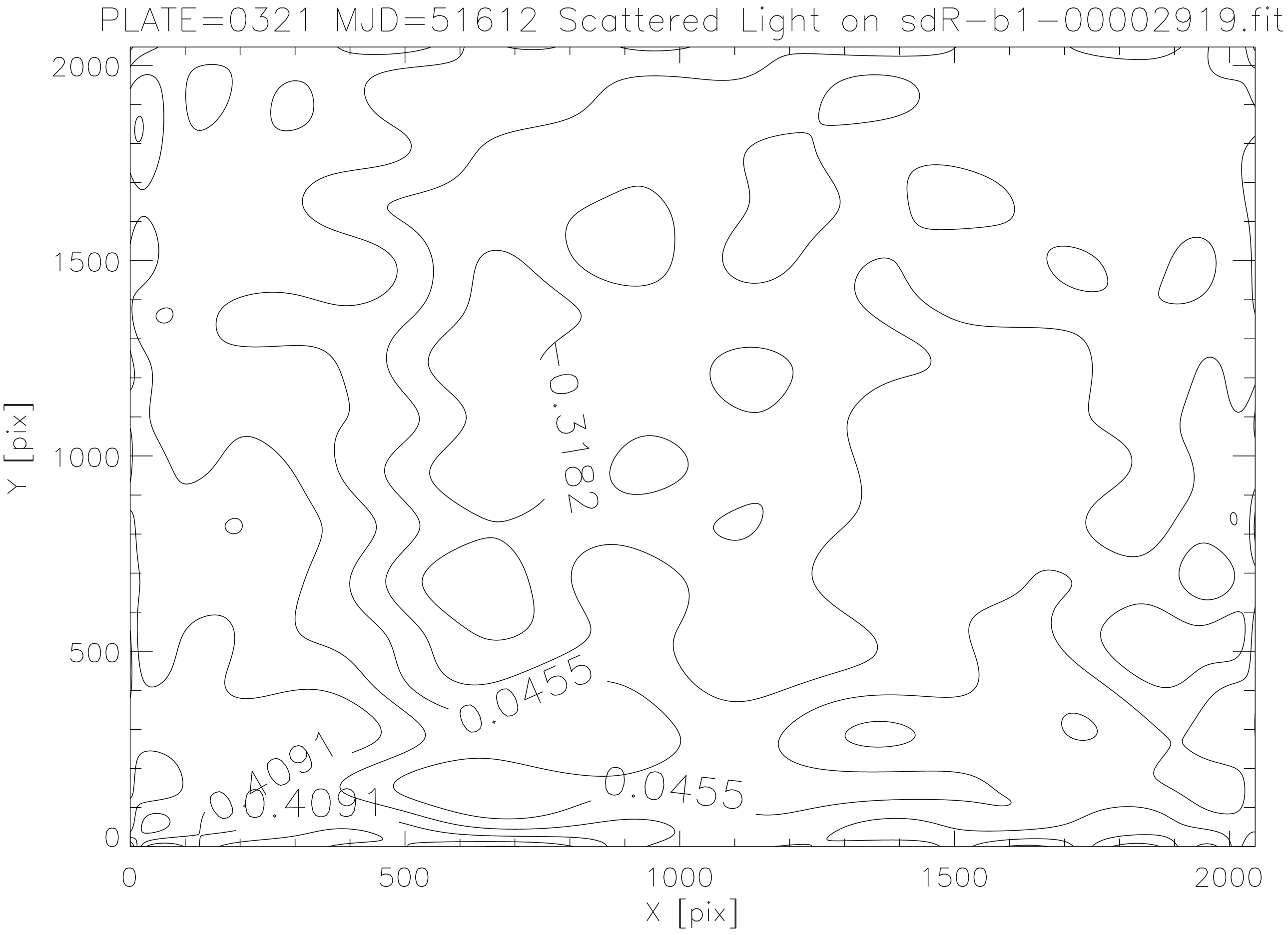


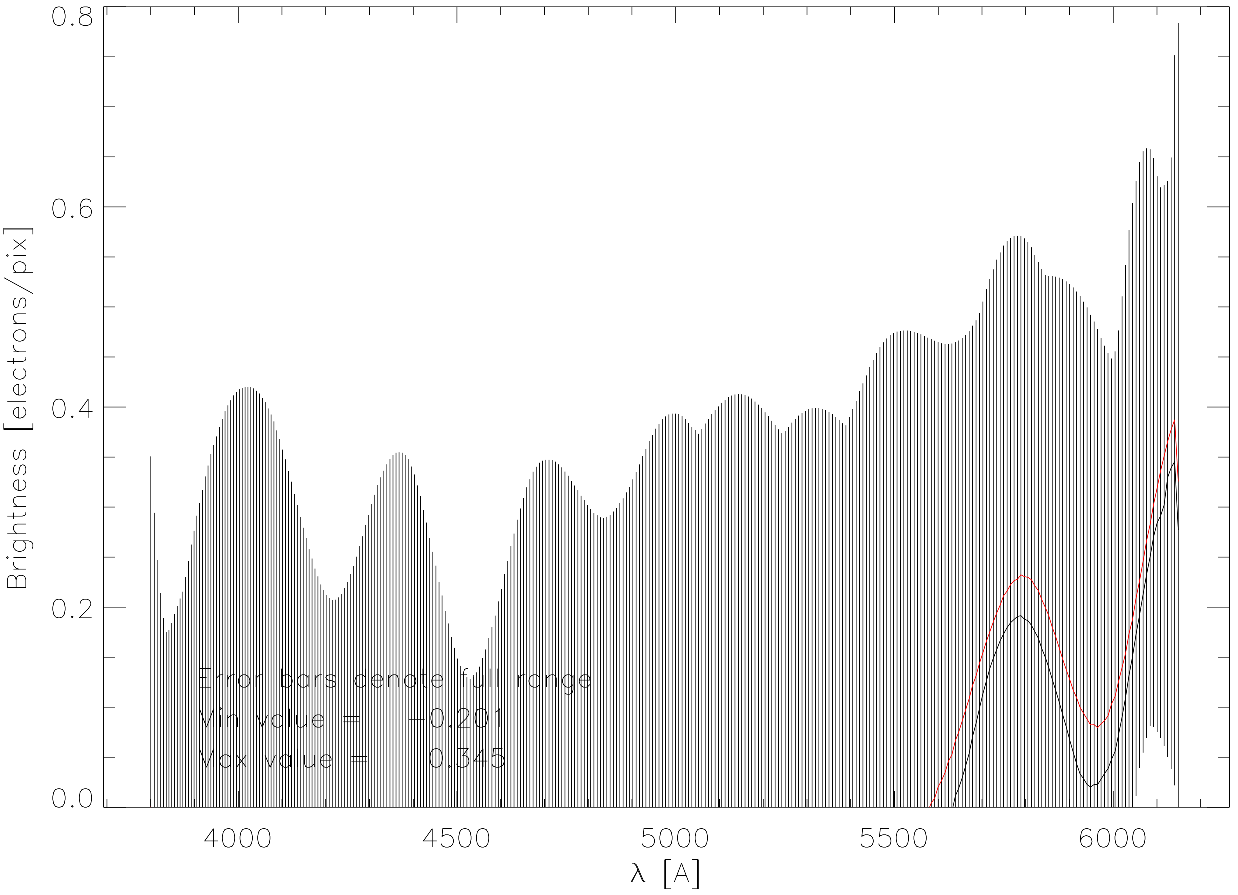
PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002919.f

PLATE=0321 MJD=51612 Scattered Light before halo removal on sdR-b1-00002919.f



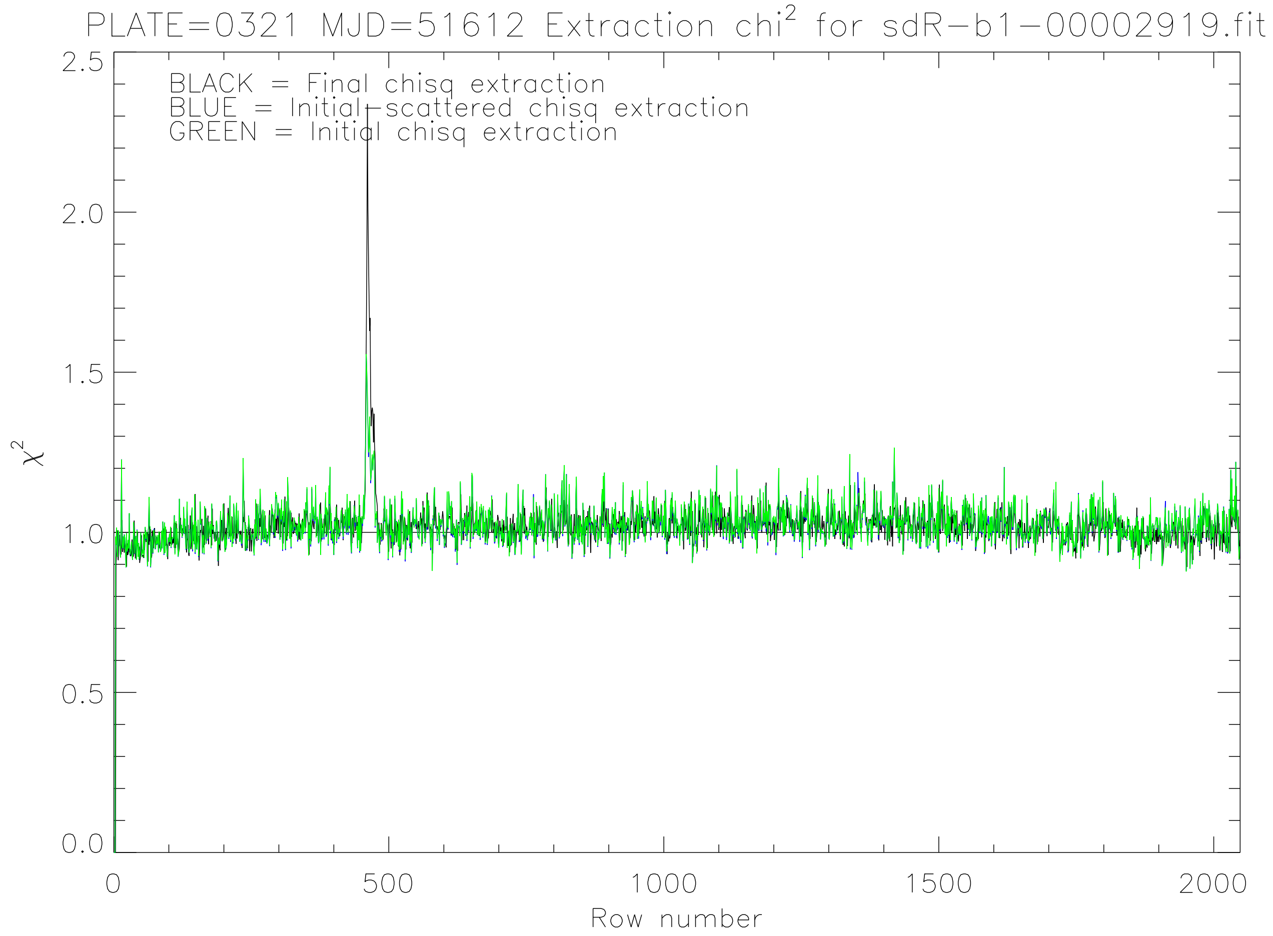
Mon Jul 21 14:56:11 2008

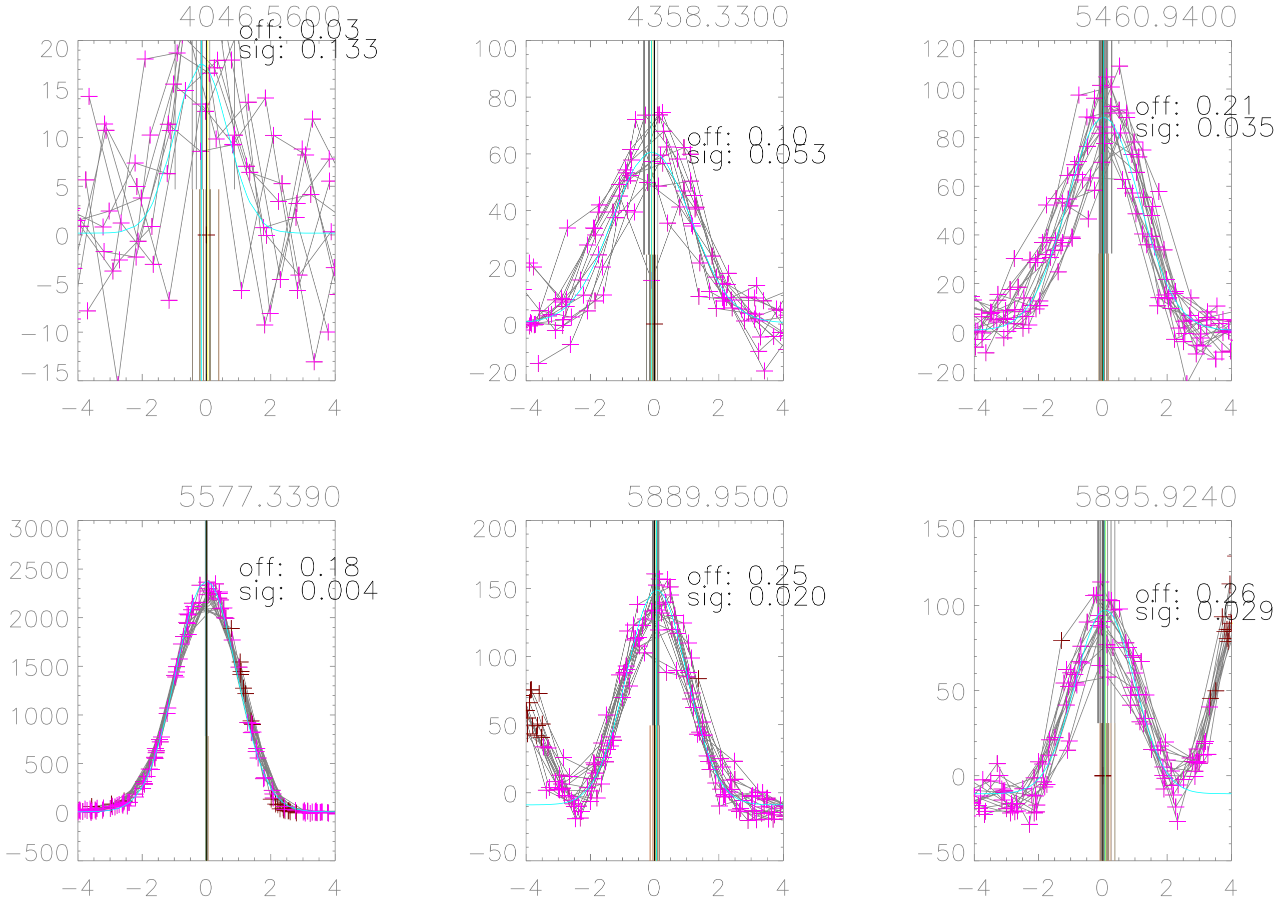

PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002919.fit
Y [pix]
X [pix]
0
500
1000
1500
2000
0
500
1000
1500
2000
0.3182
0.0455
0.0455
0.4091
0.4091

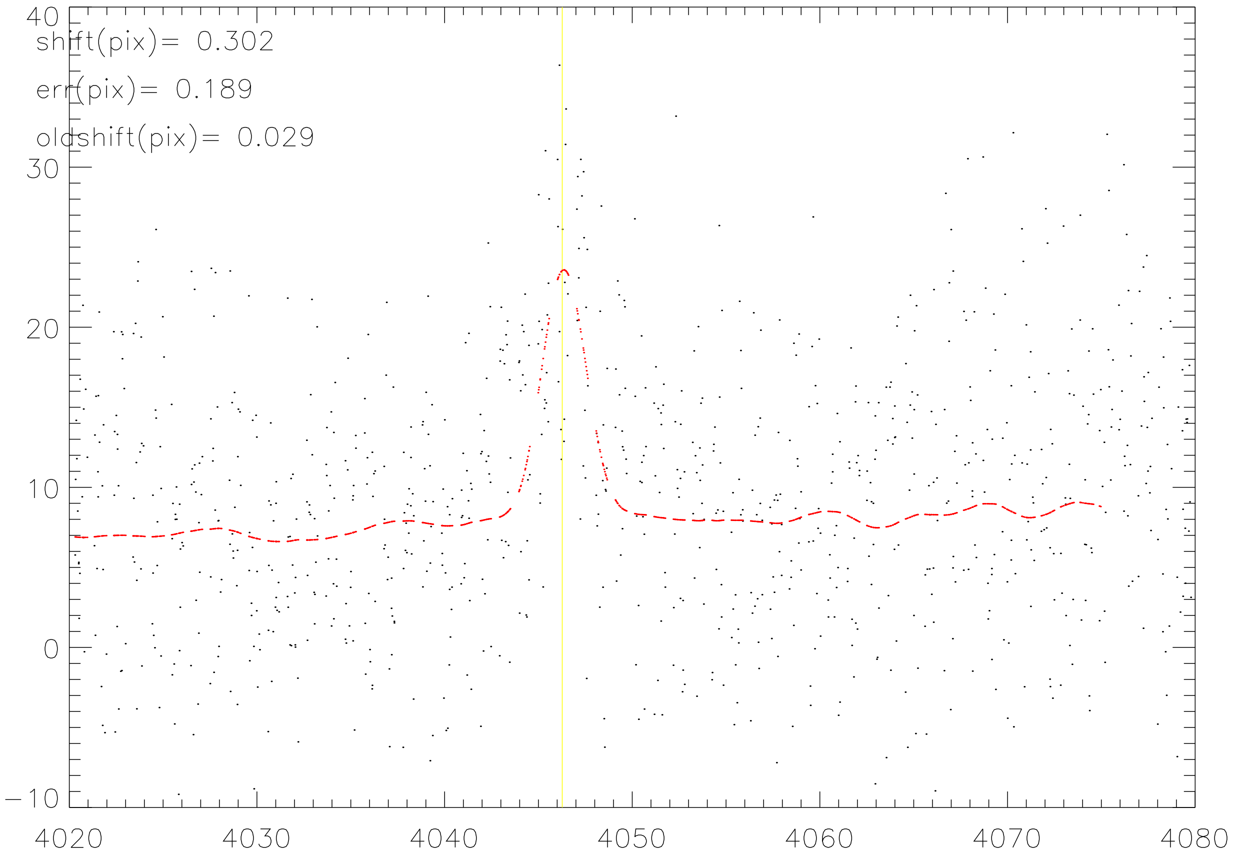


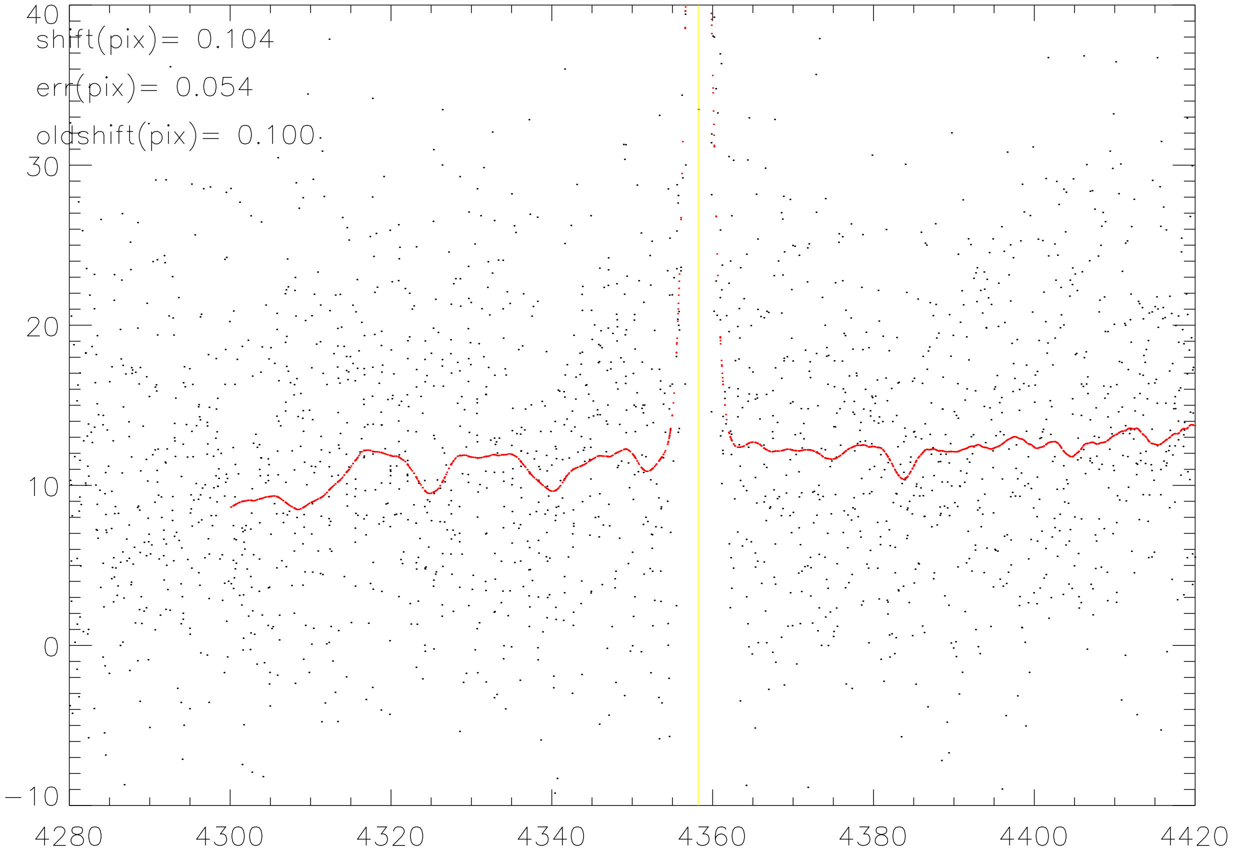
PLATE=0321 MJD=51612 Scattered Light on sdR-b1-00002919.fit

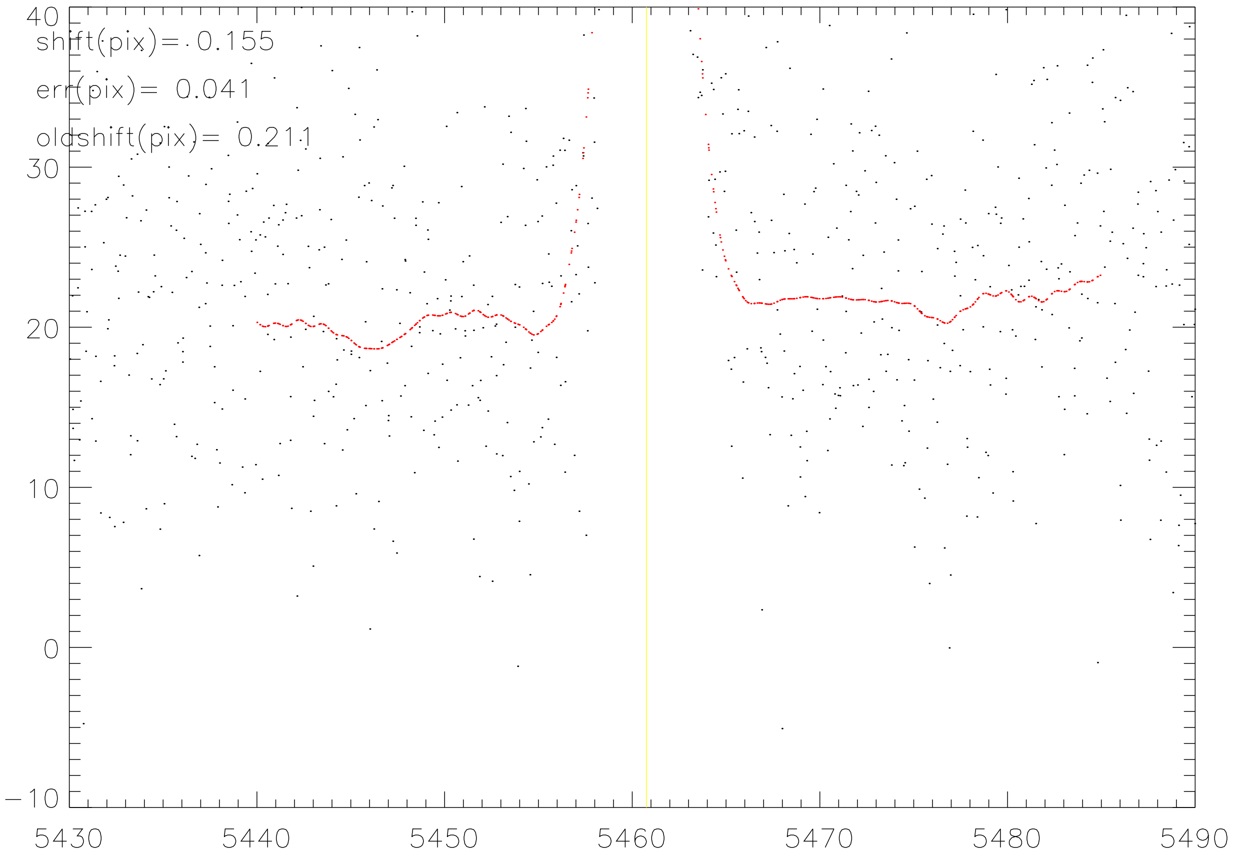
Mon Jul 21 14:59:19 2008

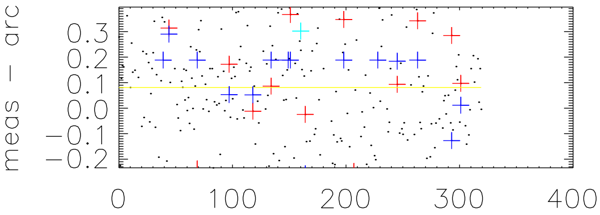

PLATE=0321 MJD=51612 Extraction chi^2 for sdR-b1-00002919.fit
BLACK = Final chisq extraction
BLUE = Initial-scattered chisq extraction
GREEN = Initial chisq extraction
χ^2
0.0
0.5
1.0
1.5
2.0
2.5
0
500
1000
1500
2000
Row number

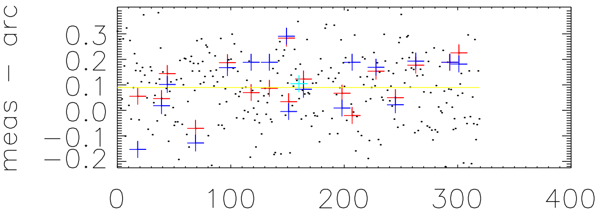

4046.5600
off: 0.03
sig: 0.133
4358.3300
off: 0.10
sig: 0.053
5460.9400
off: 0.21
sig: 0.035
5577.3390
off: 0.18
sig: 0.004
5889.9500
off: 0.25
sig: 0.020
5895.9240
off: 0.26
sig: 0.029
−4
−2
0
2
4
20
15
10
5
0
−5
−10
−15
100
80
60
40
20
0
−20
120
3000
2500
2000
1500
1000
500
−500
200
150
50
−50

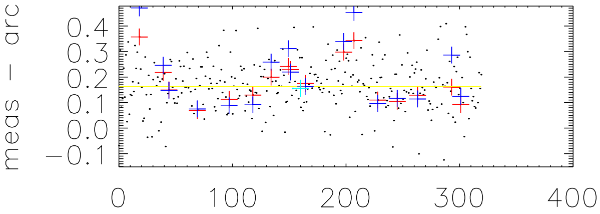

shift(pix)= 0.302
err(pix)= 0.189
oldshift(pix)= 0.029
40
30
20
10
0
−10
4020
4030
4040
4050
4060
4070
4080

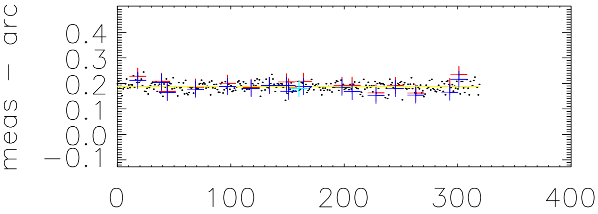

shift(pix)= 0.104
err(pix)= 0.054
oldshift(pix)= 0.100
40
30
20
10
0
−10
4280
4300
4320
4340
4360
4380
4400
4420

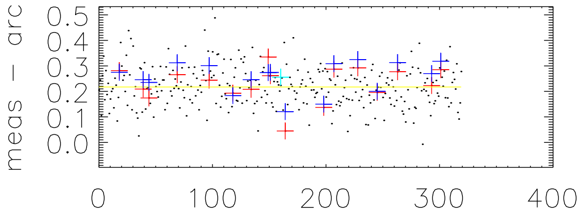

shift(pix)= 0.155
err(pix)= 0.041
oldshift(pix)= 0.211
40
30
20
10
0
−10
5430
5440
5450
5460
5470
5480
5490

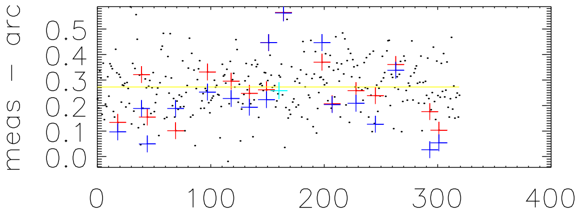

4046.5600

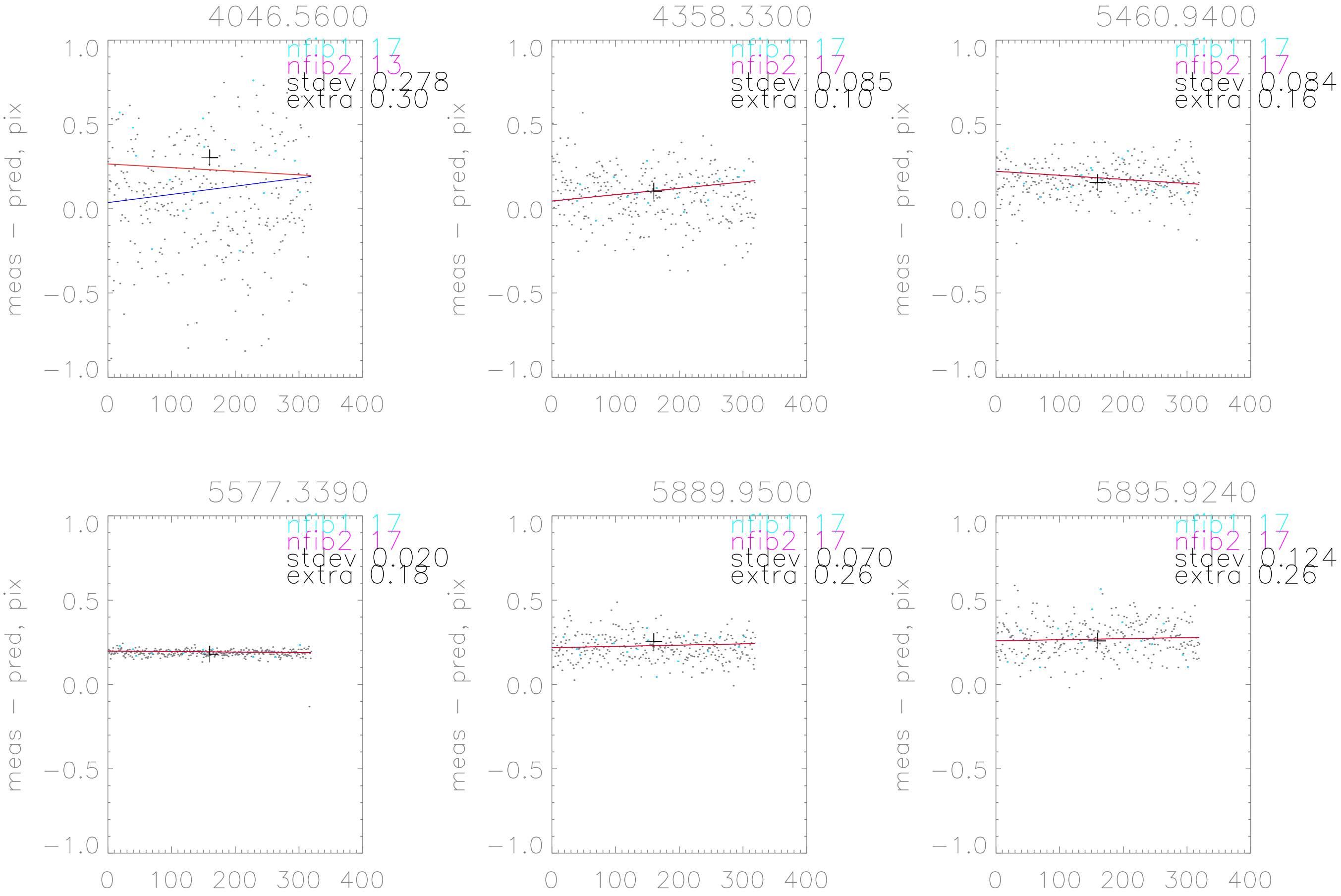

4358.3300

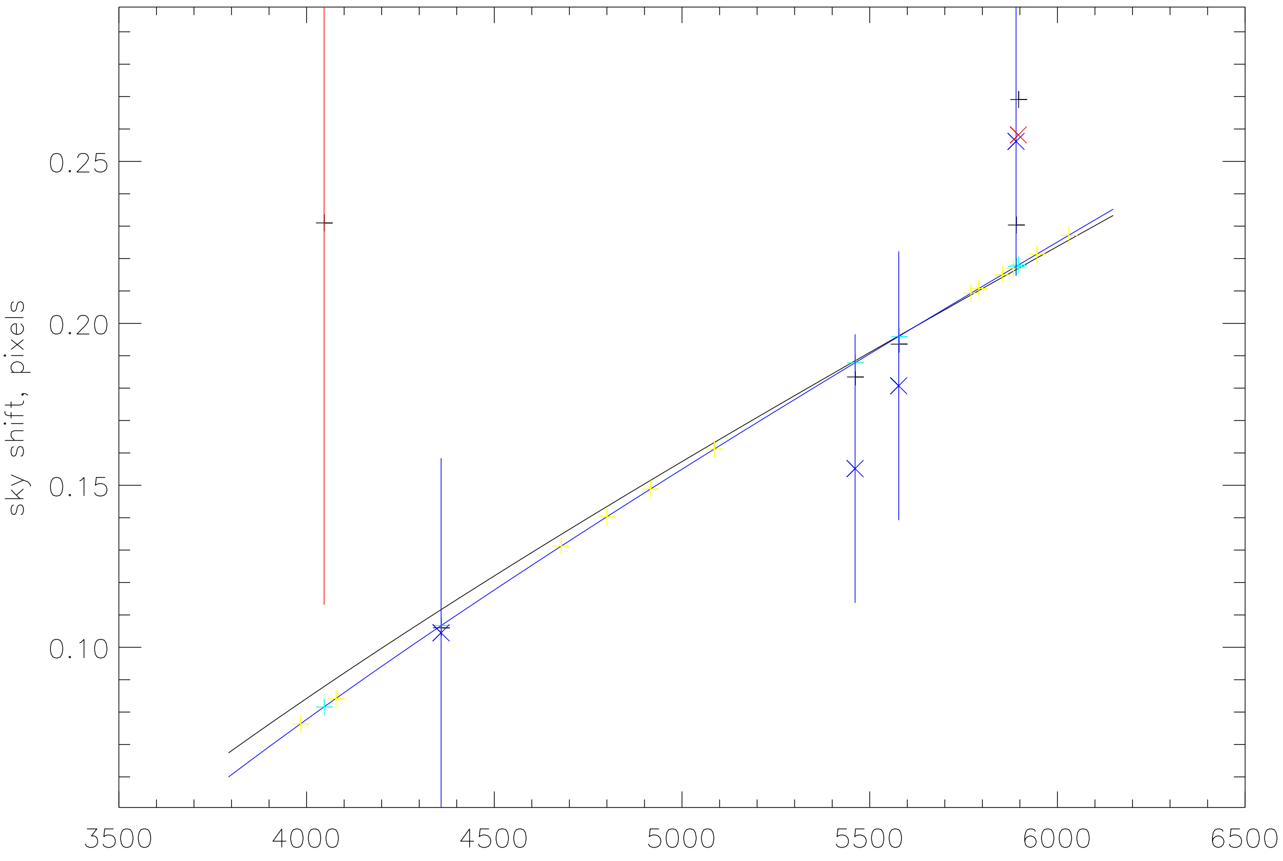

5460.9400

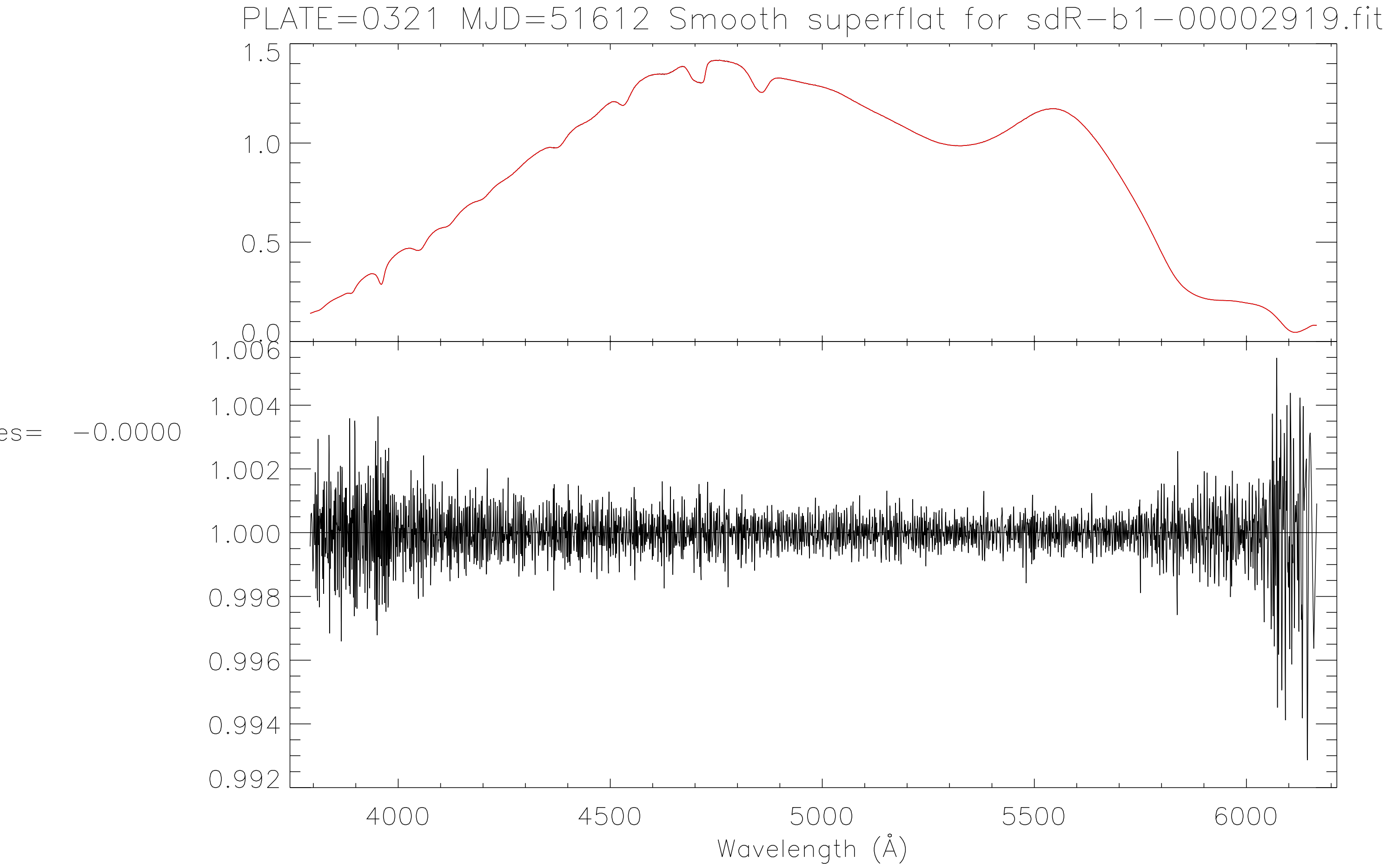

5577.3390


5889.9500

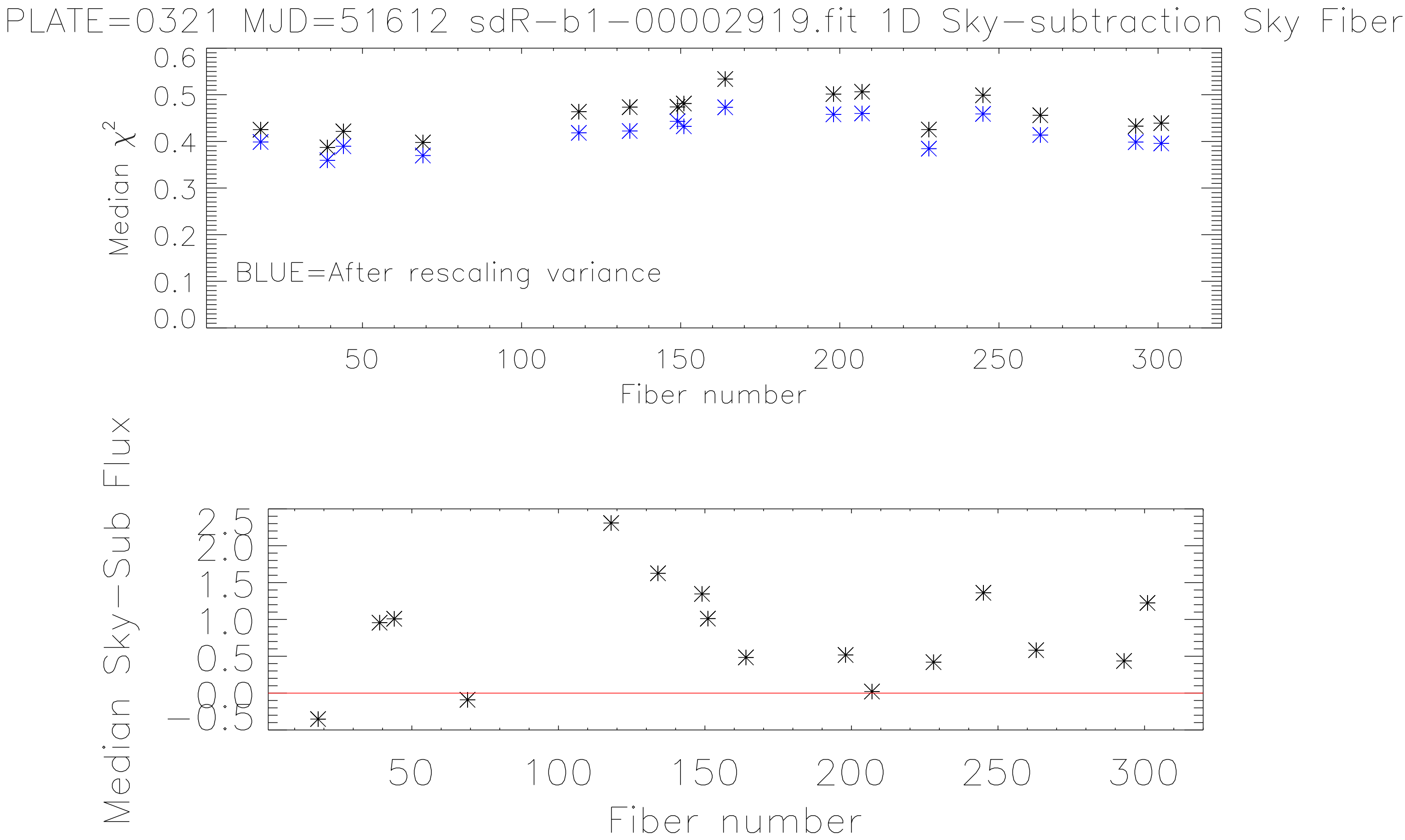

5895.9240


4046.5600
nfib1 17
nfib2 13
stdev 0.278
extra 0.30
4358.3300
nfib1 17
nfib2 17
stdev 0.085
extra 0.10
5460.9400
nfib1 17
nfib2 17
stdev 0.084
extra 0.16
5577.3390
nfib1 17
nfib2 17
stdev 0.020
extra 0.18
5889.9500
nfib1 17
nfib2 17
stdev 0.070
extra 0.26
5895.9240
nfib1 17
nfib2 17
stdev 0.124
extra 0.26
meas – pred, pix
1.0
0.5
0.0
–0.5
–1.0
0
100
200
300
400

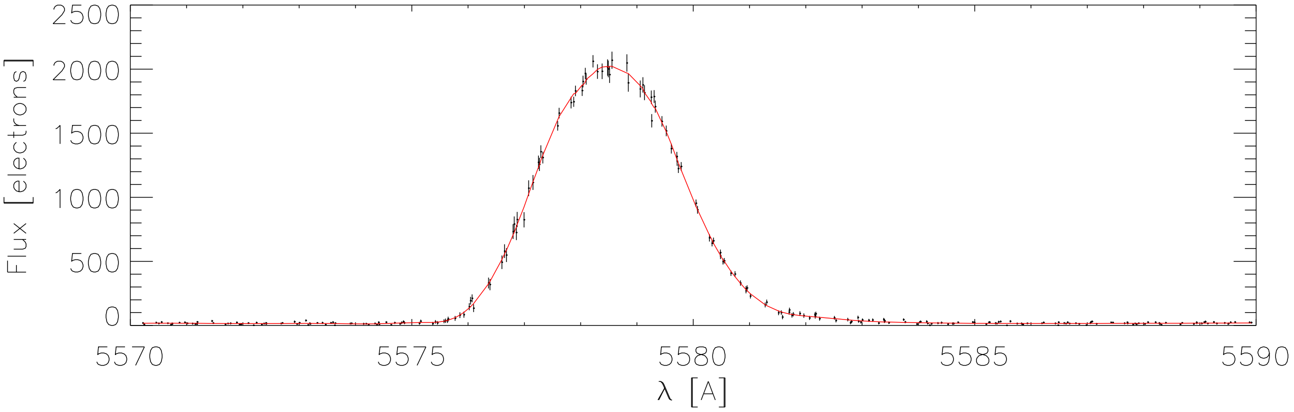

sky shift, pixels
0.10
0.15
0.20
0.25
3500
4000
4500
5000
5500
6000
6500



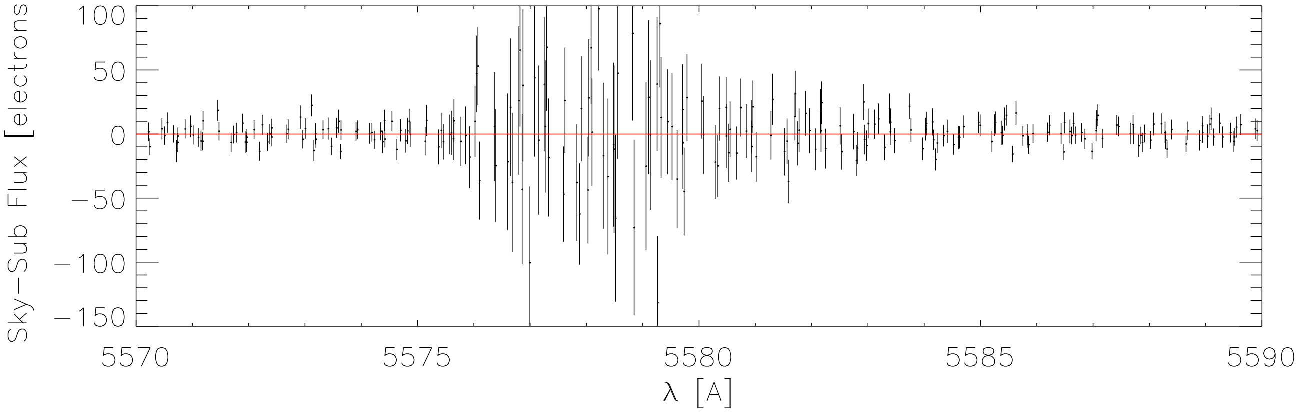
PLATE=0321 MJD=51612 Smooth superflat for sdR-b1-00002919.fit

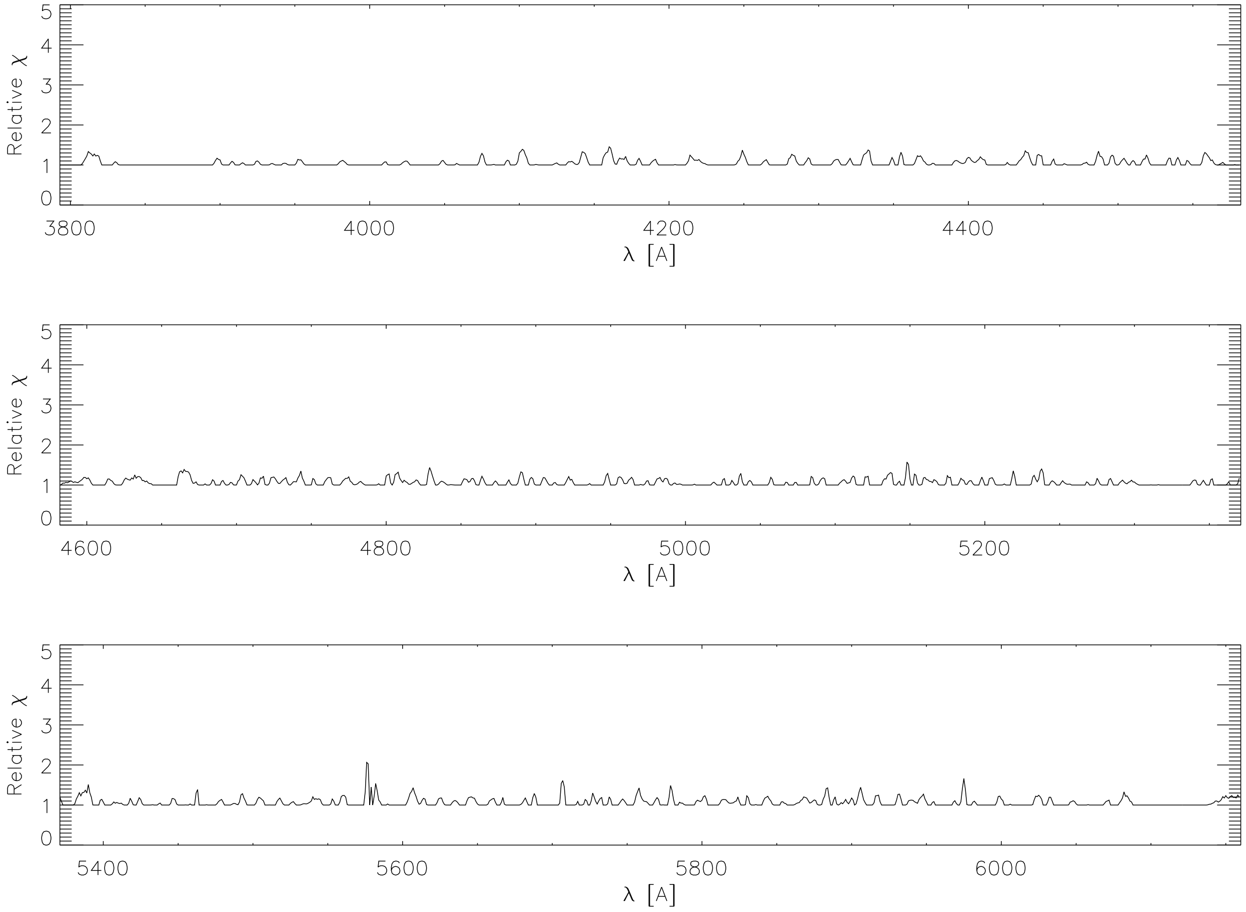

PLATE=0321 MJD=51612 sdR-b1-00002919.fit 1D Sky-subtraction Sky Fiber
Median χ^2
0.6
0.5
0.4
0.3
0.2
0.1
0.0
BLUE=After rescaling variance
50
100
150
200
250
300
Fiber number
Median Sky-Sub Flux
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
50
100
150
200
250
300
Fiber number

PLATE=0321 MJD=51612 sdR-b1-00002919.fit 1D Sky-subtraction Sky Fibers



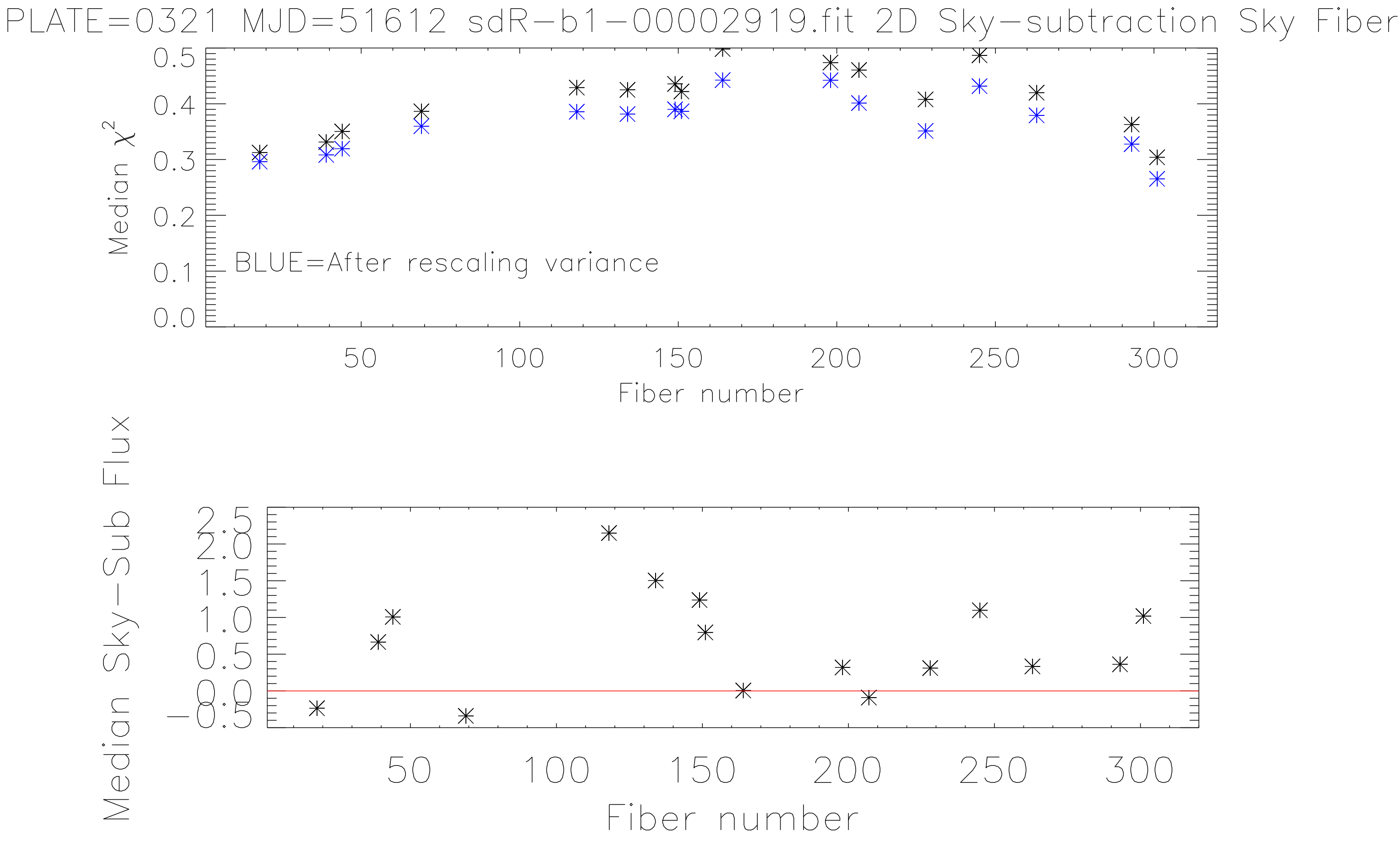
PLATE=0321 MJD=51612 sdR-b1-00002919.fit 1D Sky-subtraction Sky-subtracted Sky F



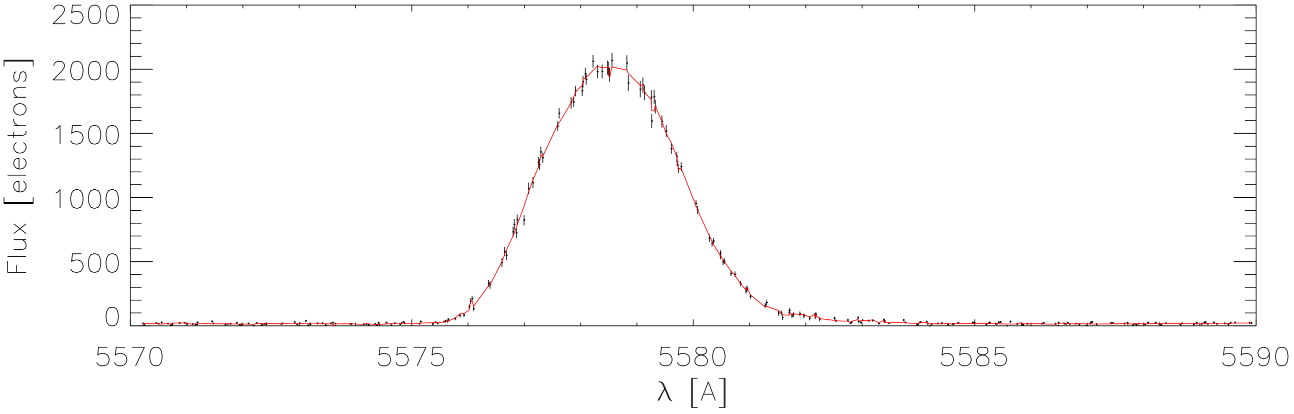


Number of sky fibers = 16

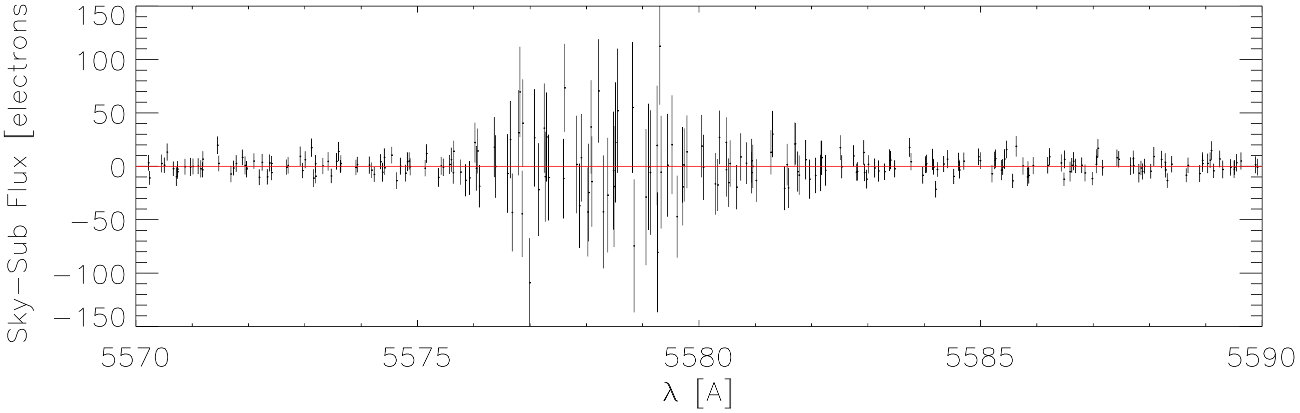
PLATE=0321 MJD=51612 sdR-b1-00002919.fit 1D Sky-subtraction Rescaled Errors


PLATE=0321 MJD=51612 sdR-b1-00002919.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
−0.5
0.0
0.5
1.0
1.5
2.0
2.5
50
100
150
200
250
300
Fiber number

PLATE=0321 MJD=51612 sdR-b1-00002919.fit 2D Sky-subtraction Sky Fibers

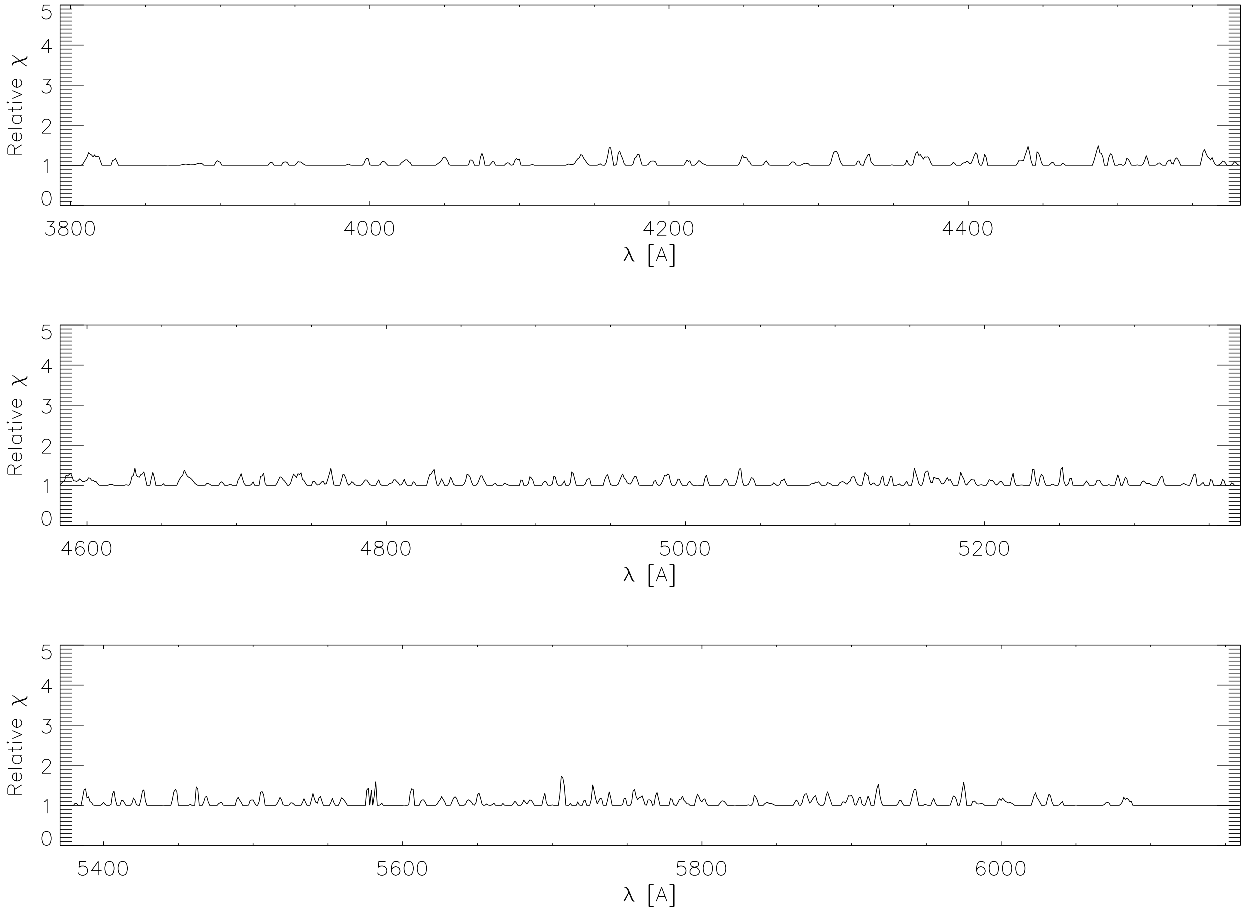


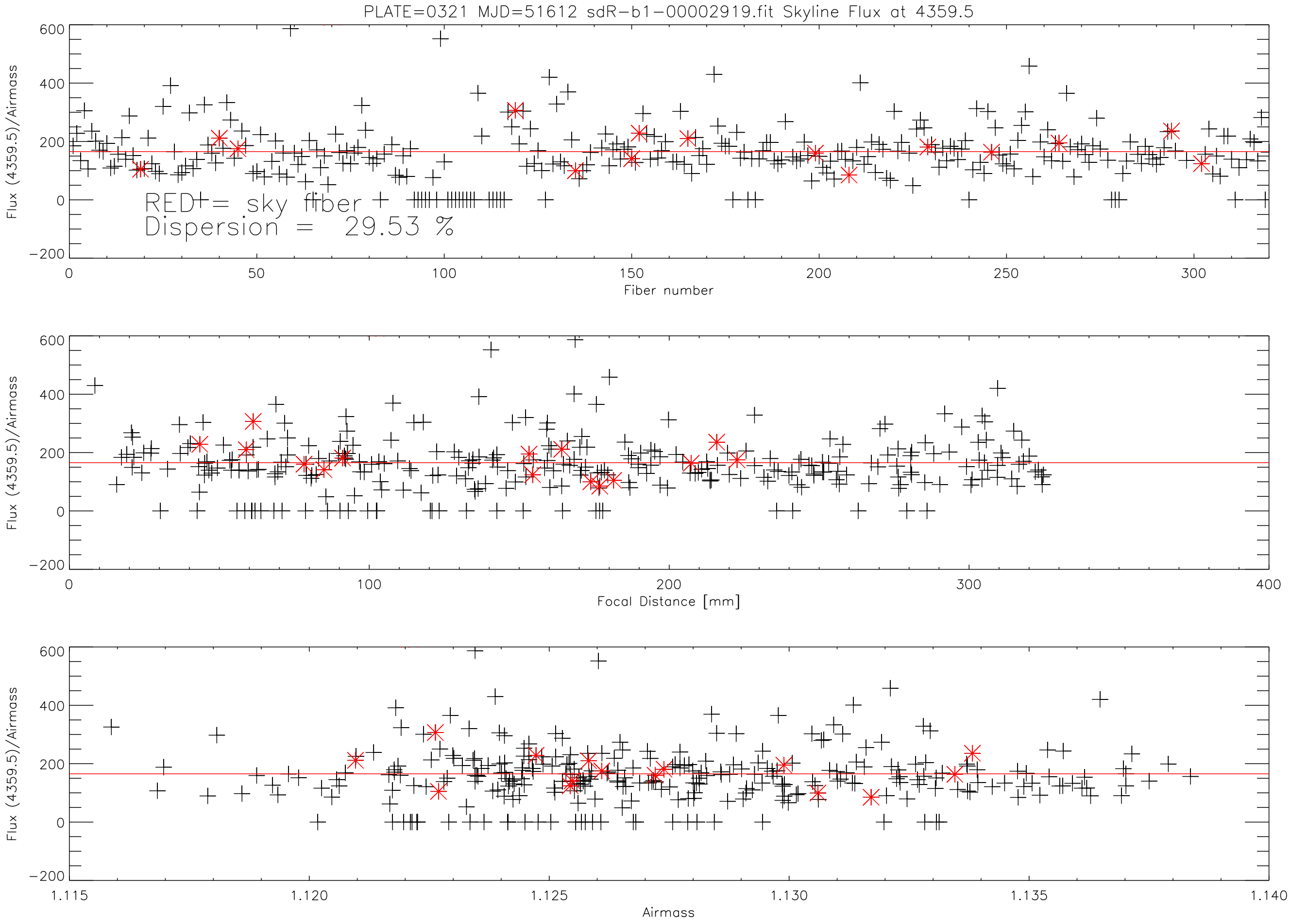
PLATE=0321 MJD=51612 sdR-b1-00002919.fit 2D Sky-subtraction Sky-subtracted Sky F

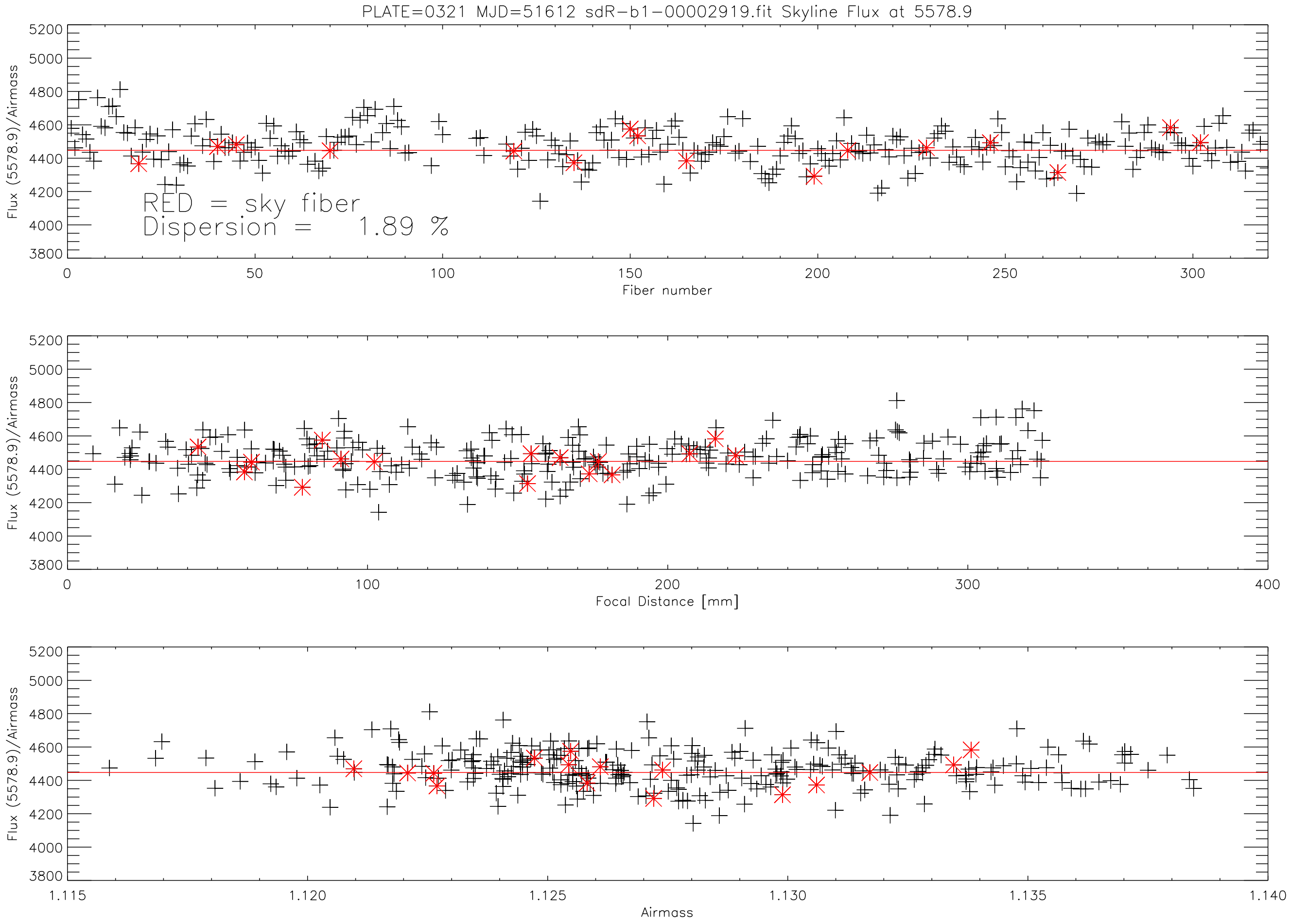


Number of sky fibers = 16

PLATE=0321 MJD=51612 sdR-b1-00002919.fit 2D Sky-subtraction Rescaled Errors




PLATE=0321 MJD=51612 sdR-b1-00002919.fit Skyline Flux at 4359.5
Flux (4359.5)/Airmass
600
400
200
0
-200
0
50
100
150
200
250
300
Fiber number
RED = sky fiber
Dispersion = 29.53 %
Flux (4359.5)/Airmass
600
400
200
0
-200
0
100
200
300
400
Focal Distance [mm]
Flux (4359.5)/Airmass
600
400
200
0
-200
1.115
1.120
1.125
1.130
1.135
1.140
Airmass


PLATE=0321 MJD=51612 sdR-b1-00002919.fit Skyline Flux at 5578.9
Flux (5578.9)/Airmass
5200
5000
4800
4600
4400
4200
4000
3800
RED = sky fiber
Dispersion = 1.89 %
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
1.115
1.120
1.125
1.130
1.135
1.140
Airmass