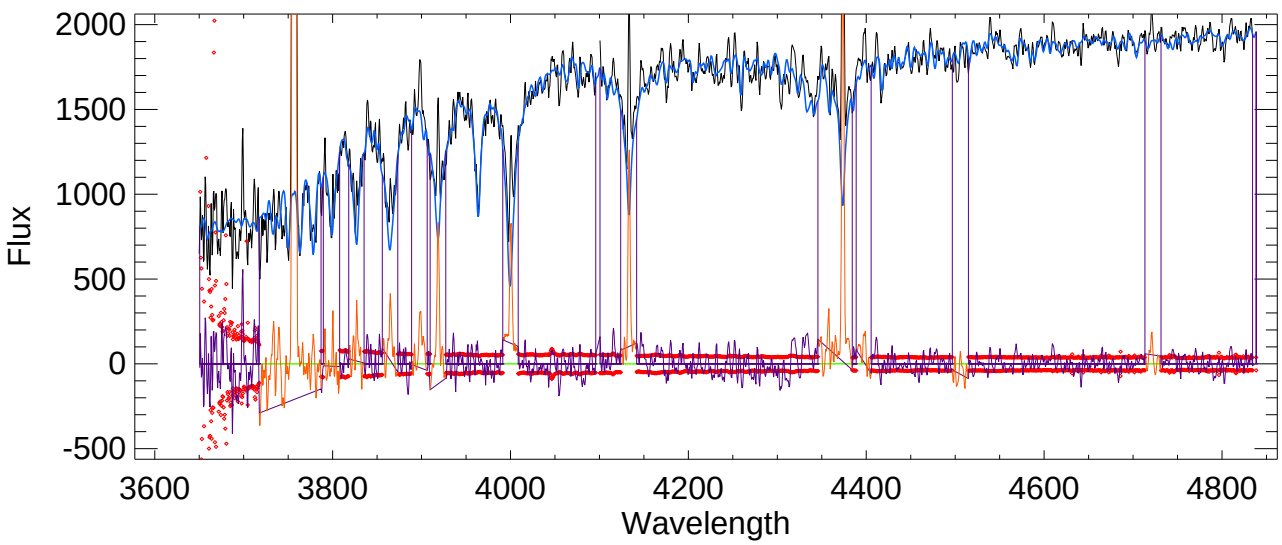
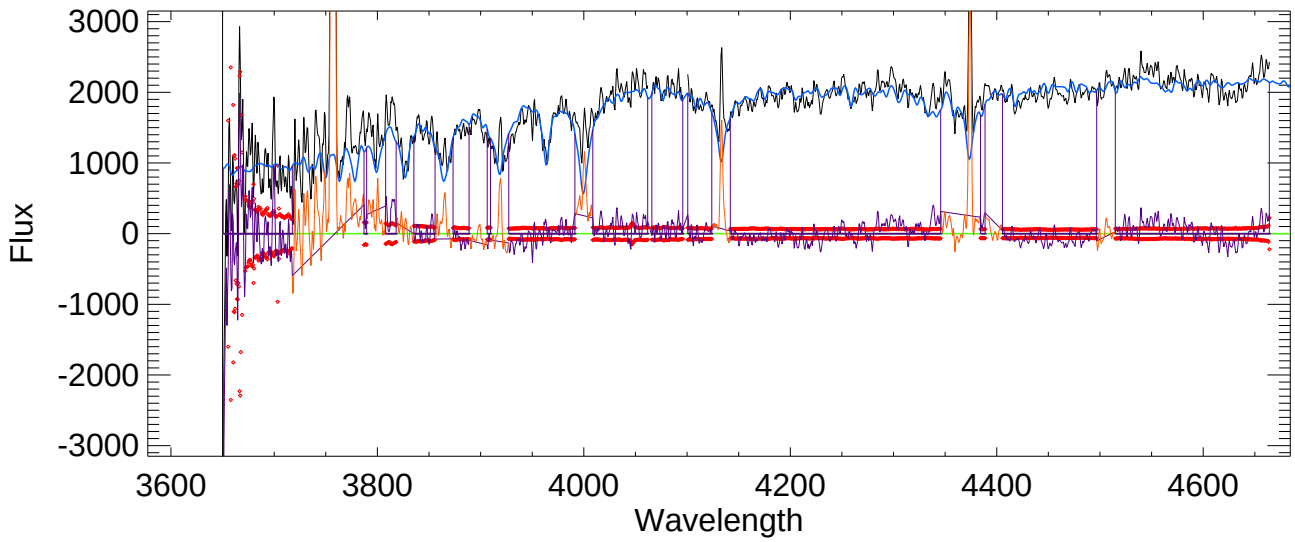
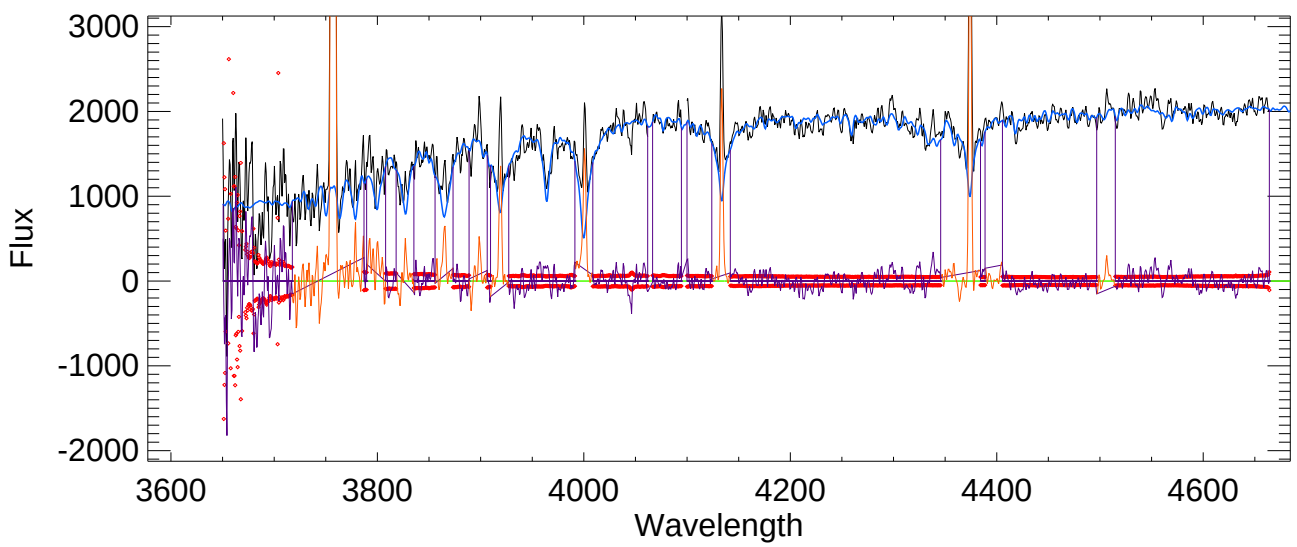
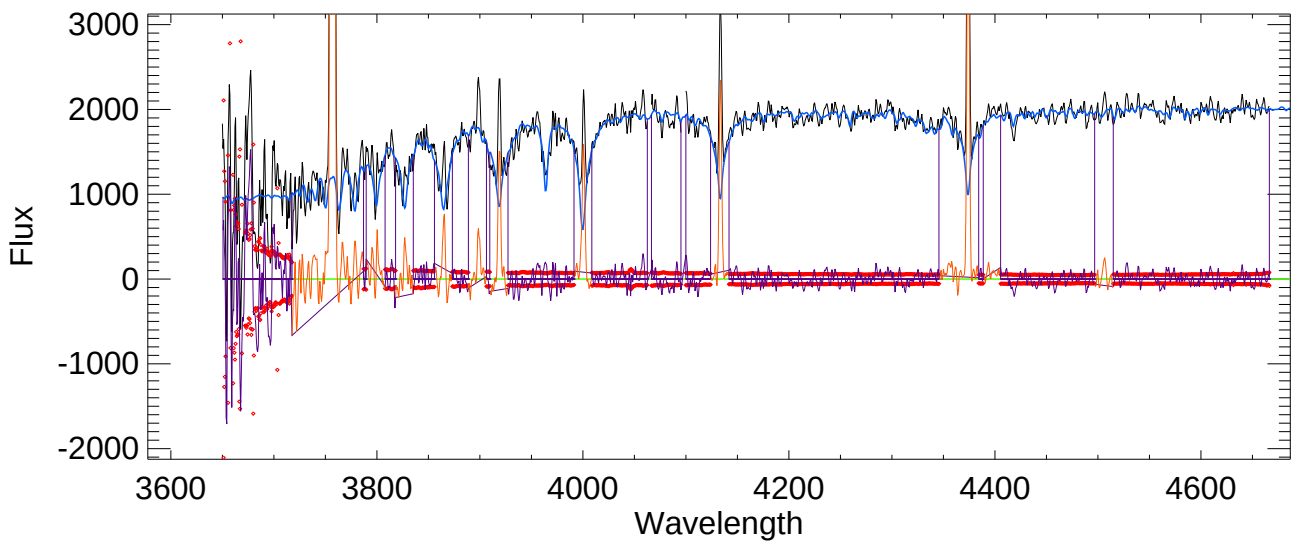
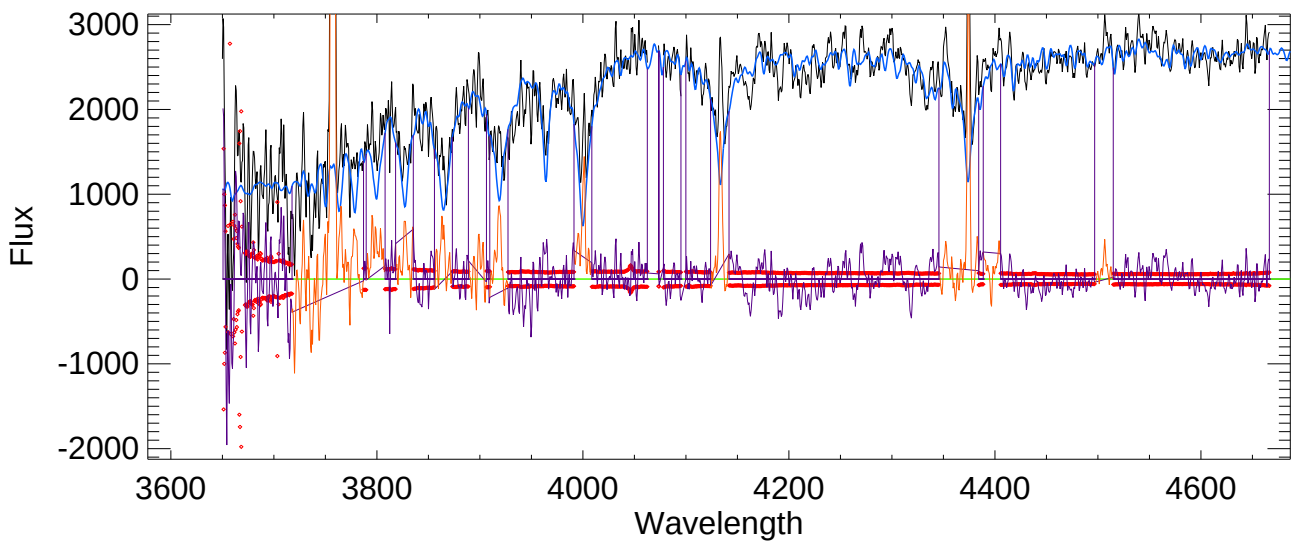
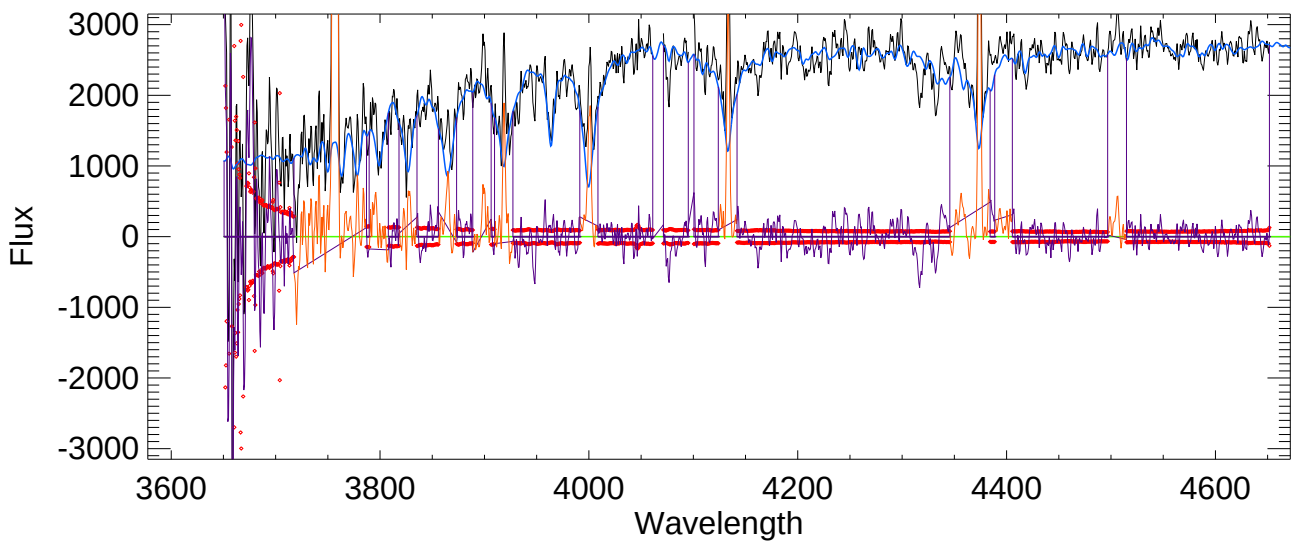

2000
1500
1000
500
0
-500
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

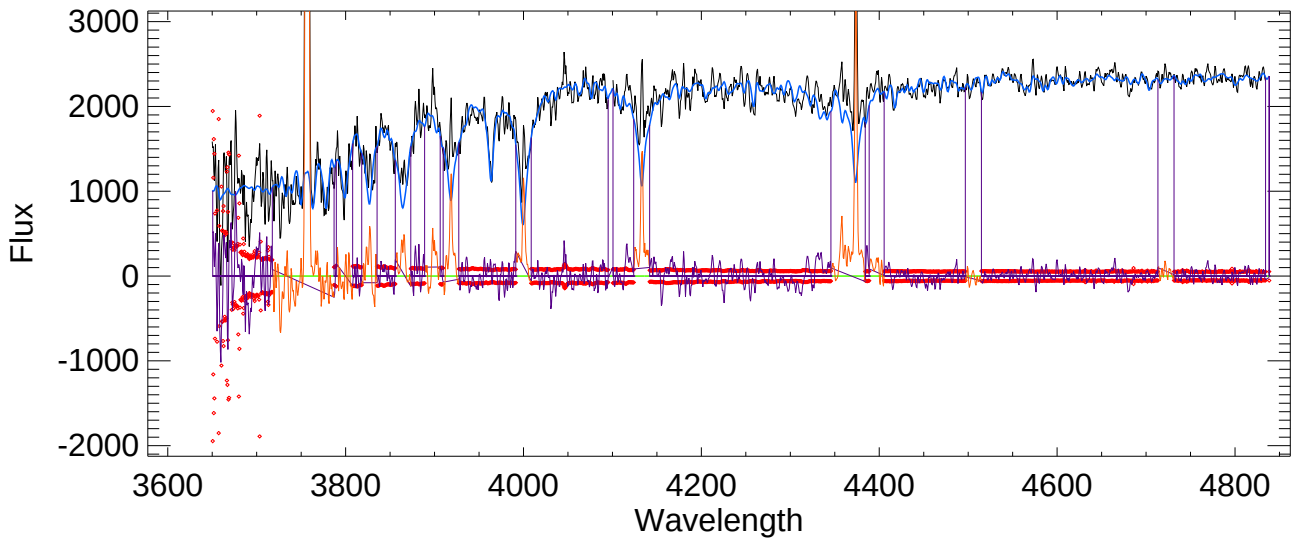

3000
2000
1000
0
-1000
-2000
-3000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

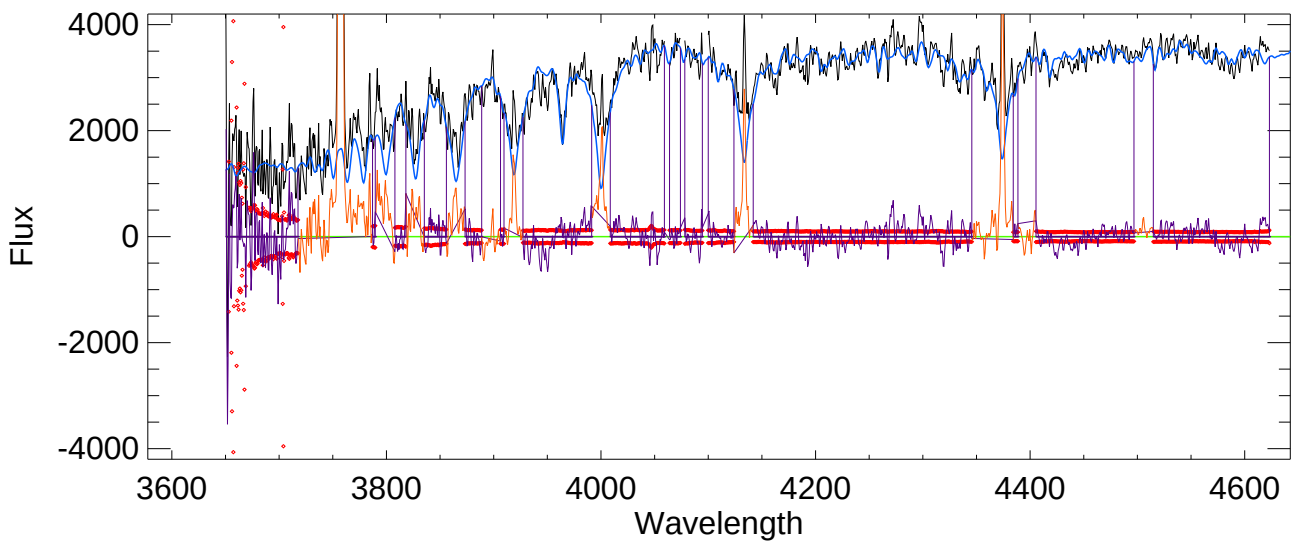

3000
2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

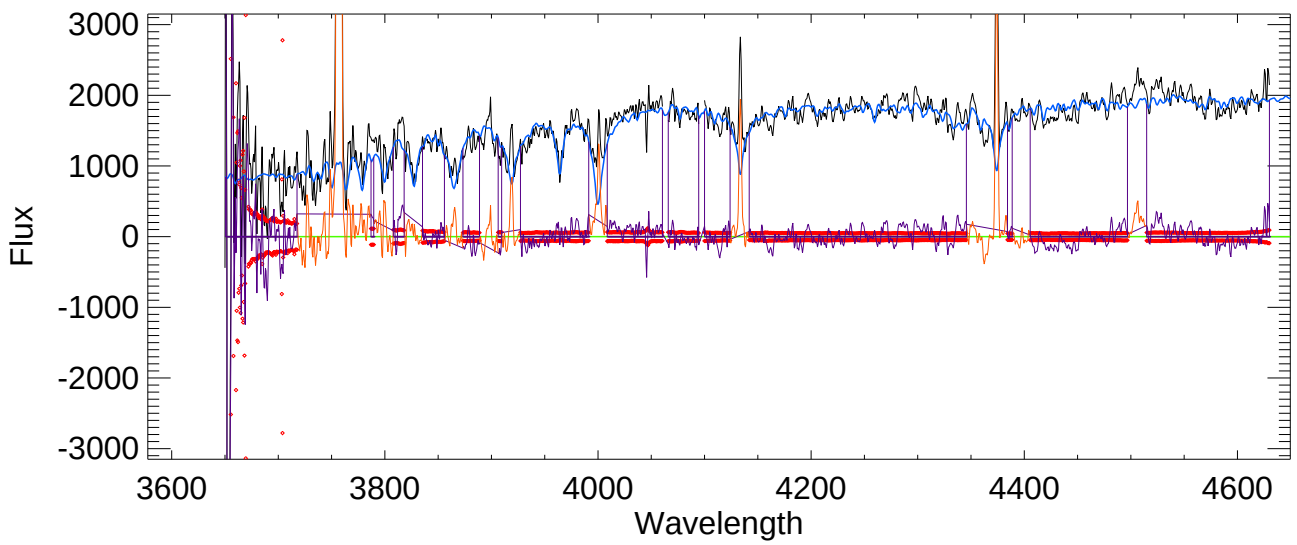

3000
2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

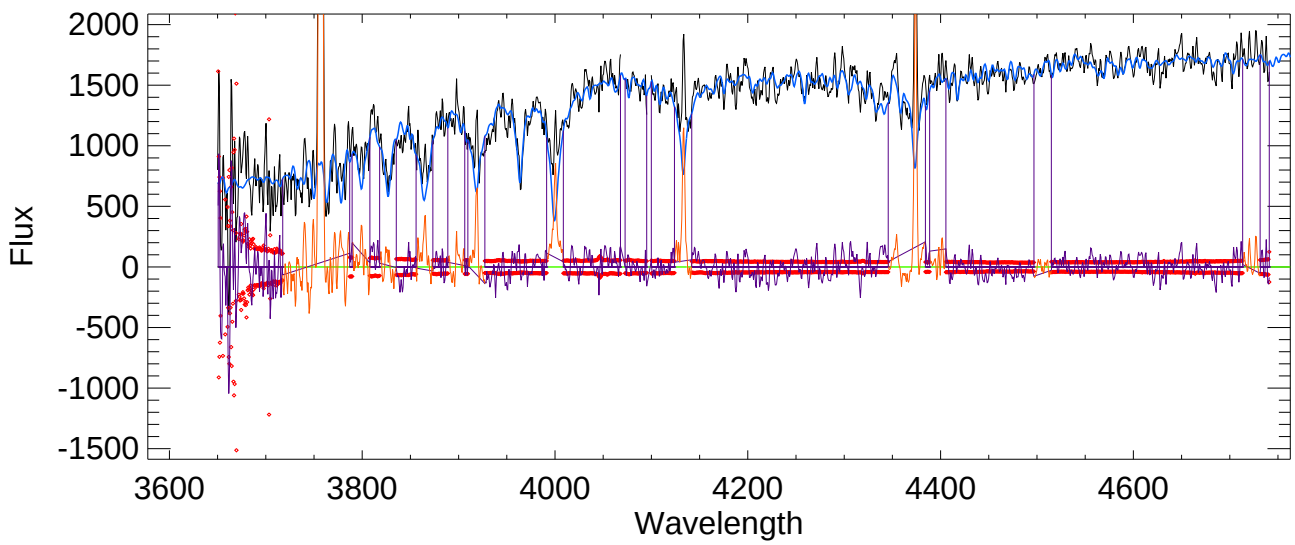

3000
2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

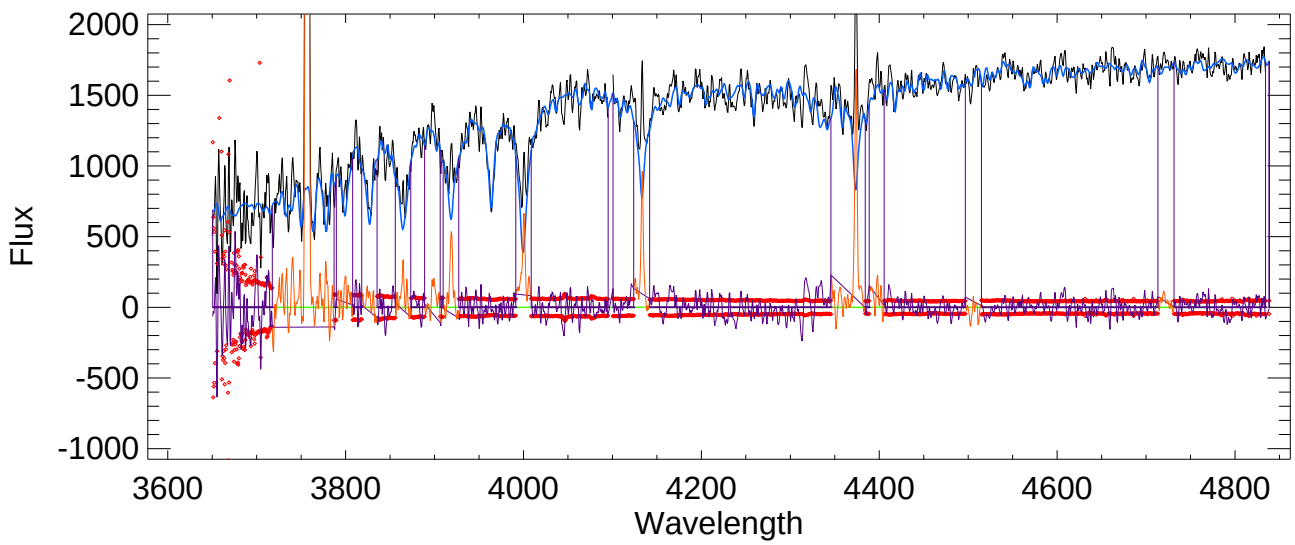

3000
2000
1000
0
-1000
-2000
-3000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

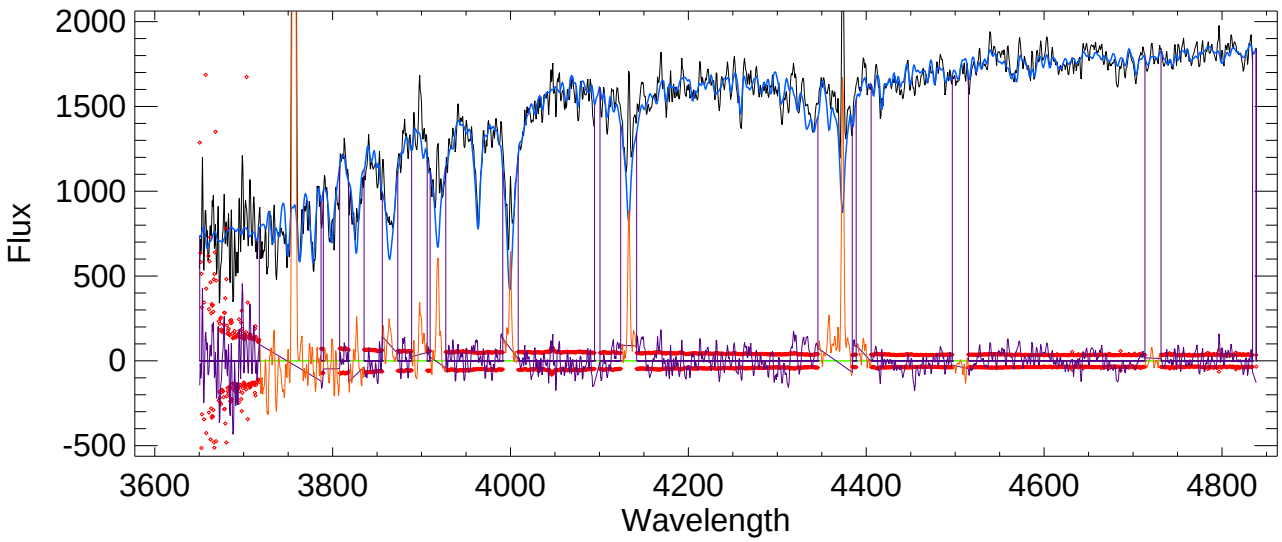

3000
2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

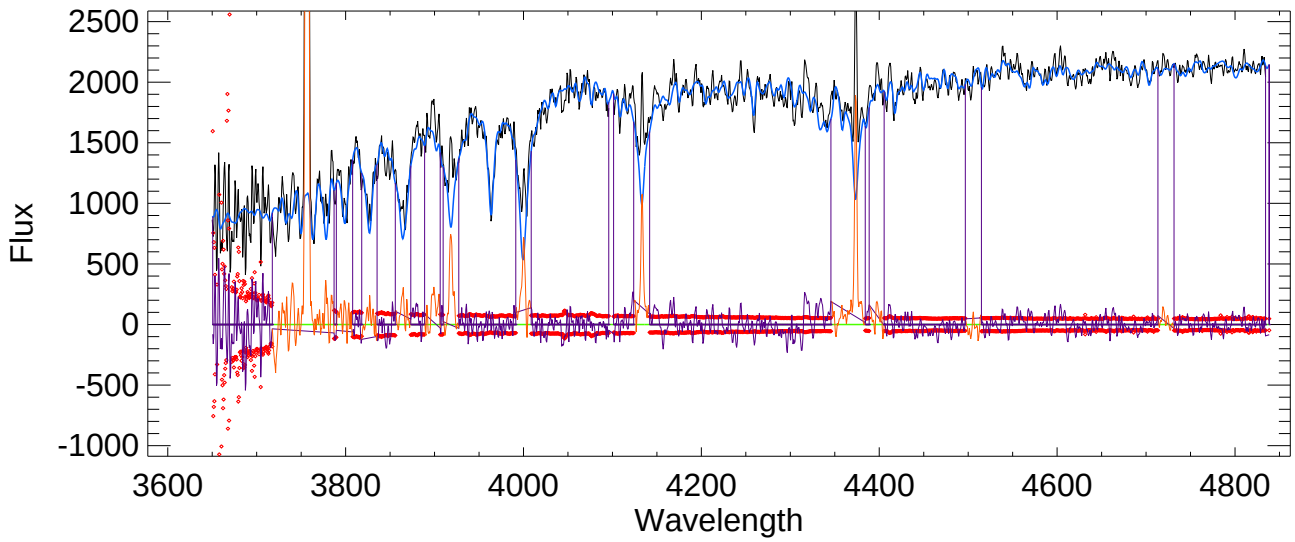

4000
2000
0
-2000
-4000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

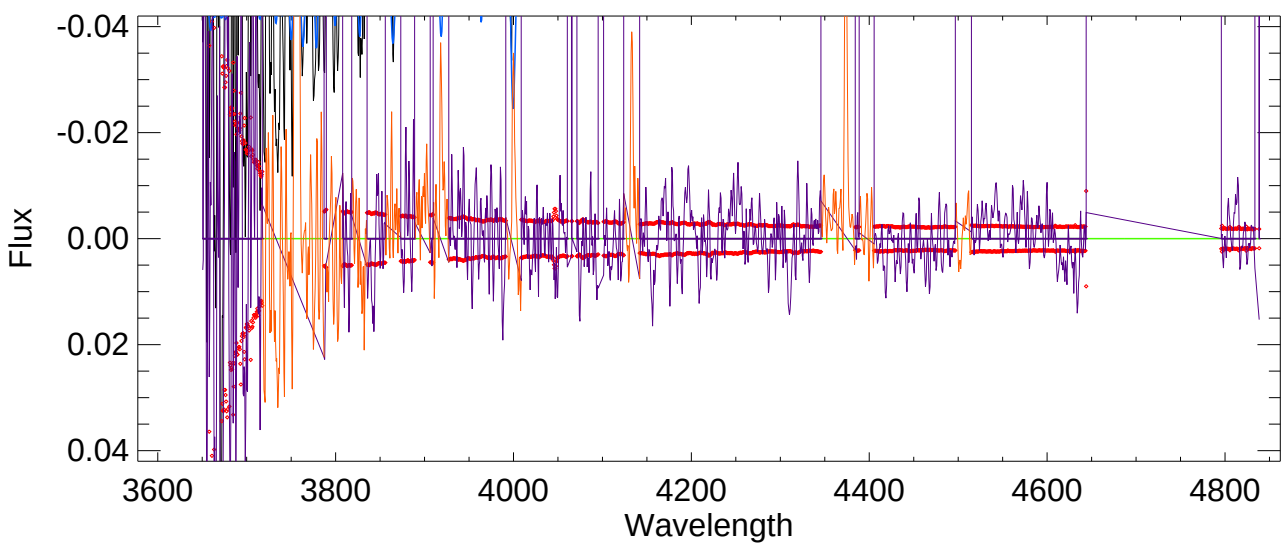

3000
2000
1000
0
-1000
-2000
-3000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

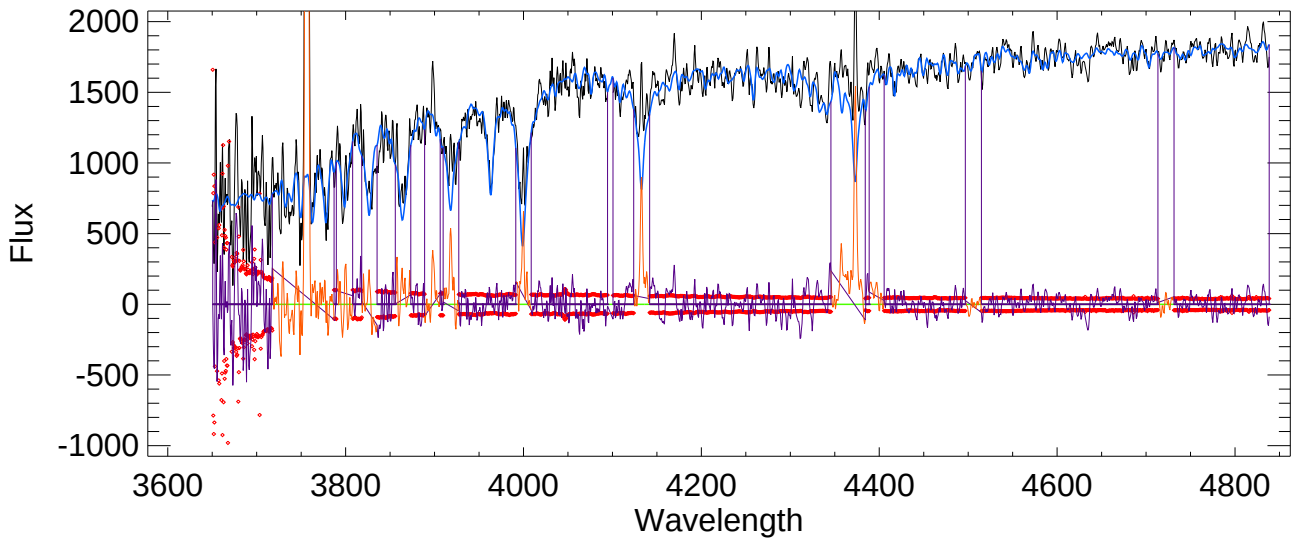

2000
1500
1000
500
0
-500
-1000
-1500
Flux
3600
3800
4000
4200
4400
4600
Wavelength

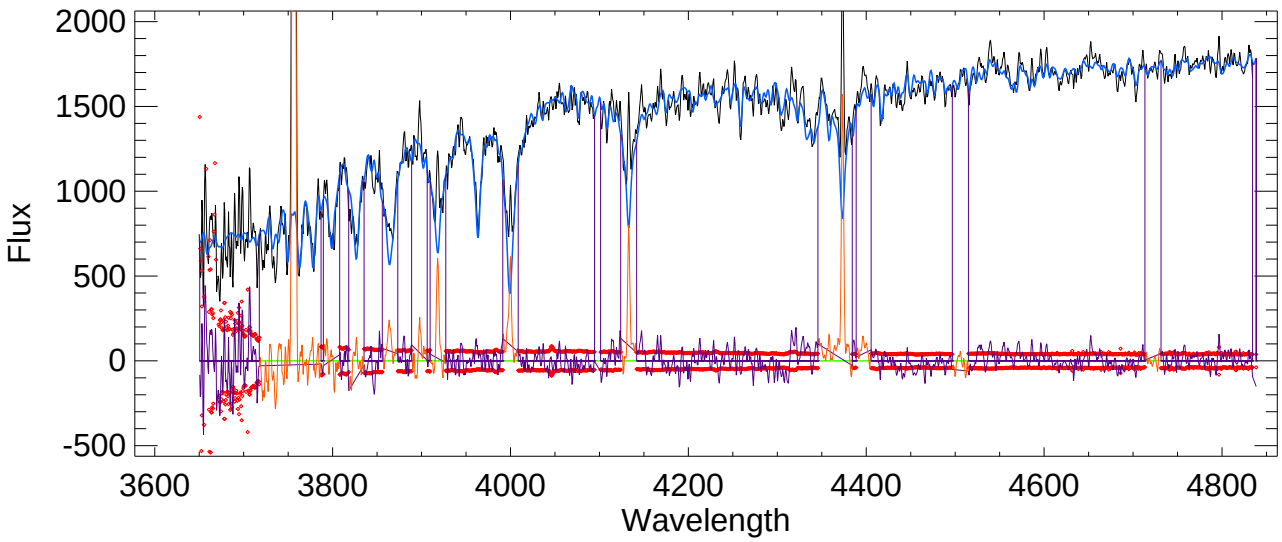

2000
1500
1000
500
0
-500
-1000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

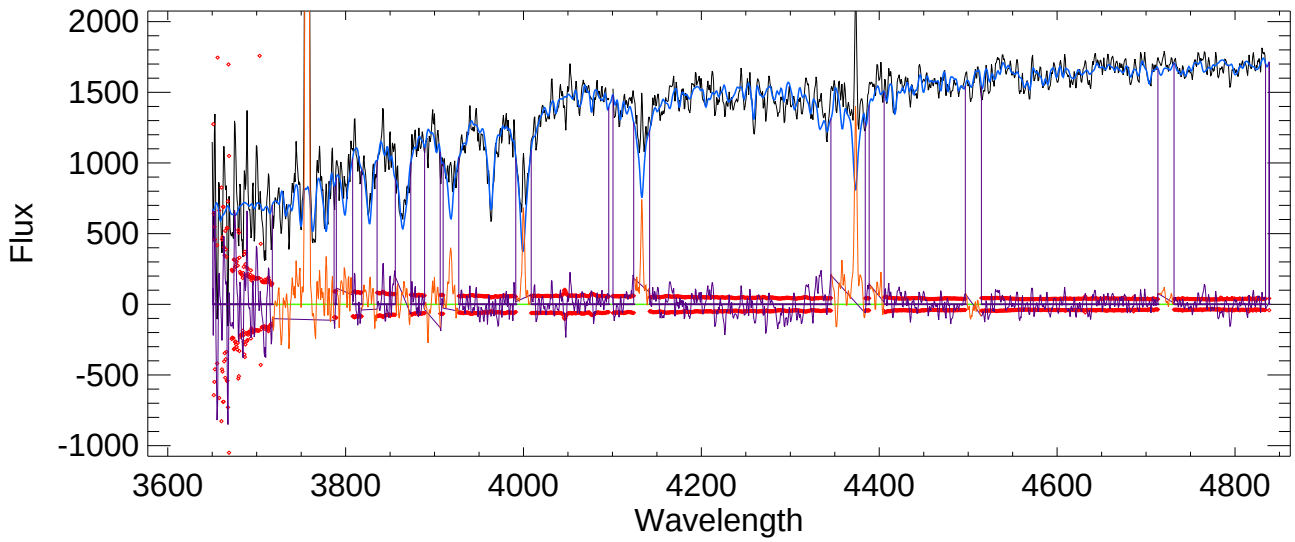

2000
1500
1000
500
0
-500
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

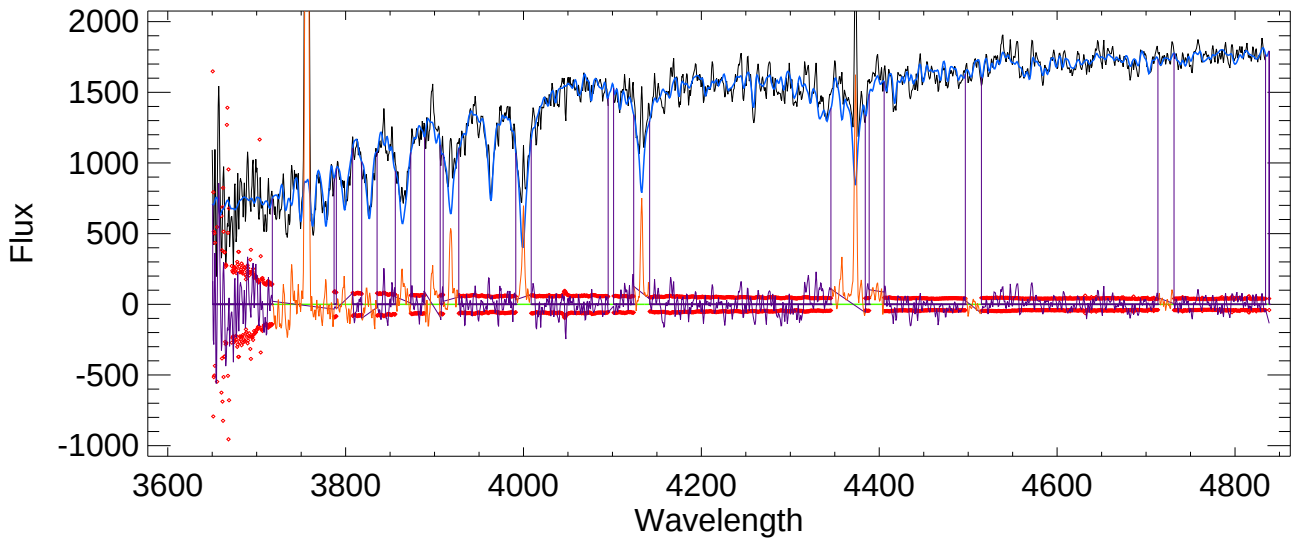

2500
2000
1500
1000
500
0
-500
-1000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

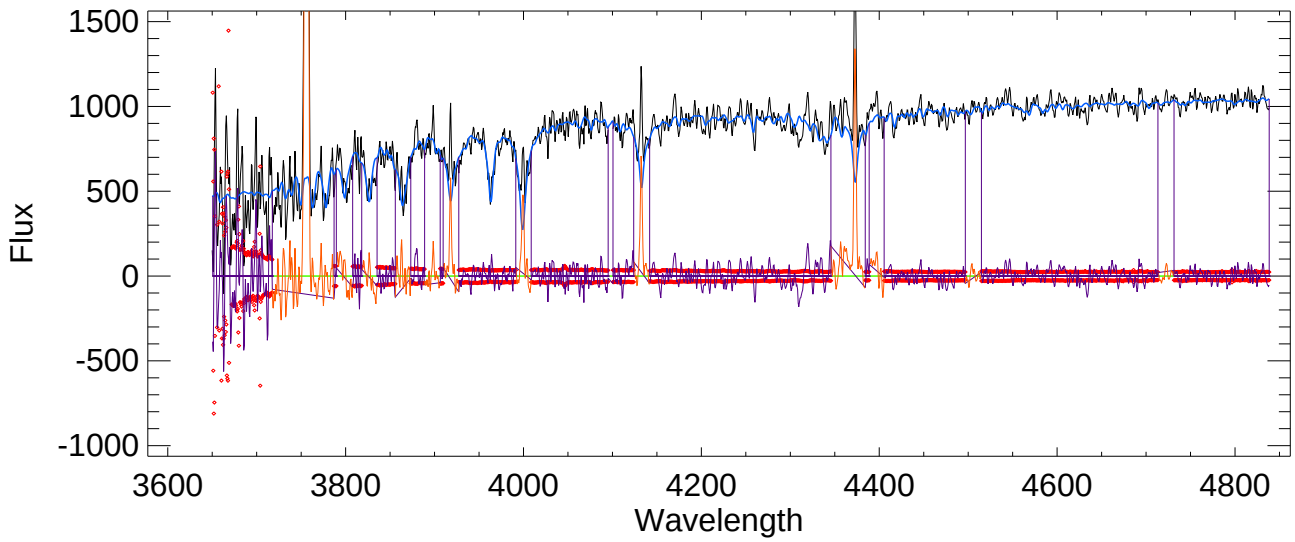

-0.04
-0.02
0.00
0.02
0.04
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

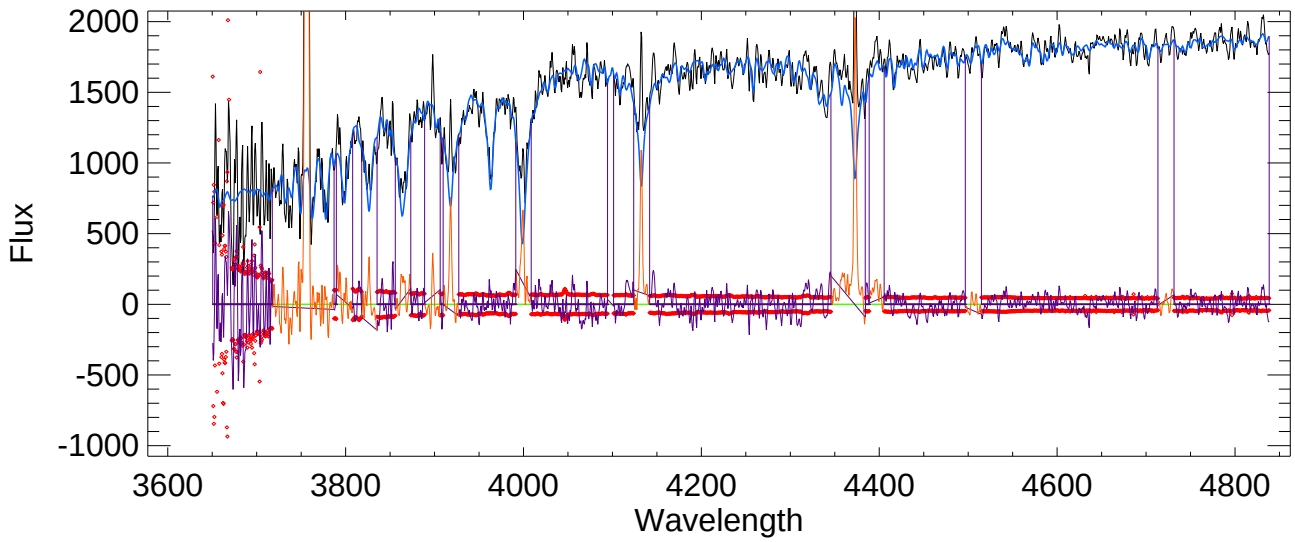

2000
1500
1000
500
0
-500
-1000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

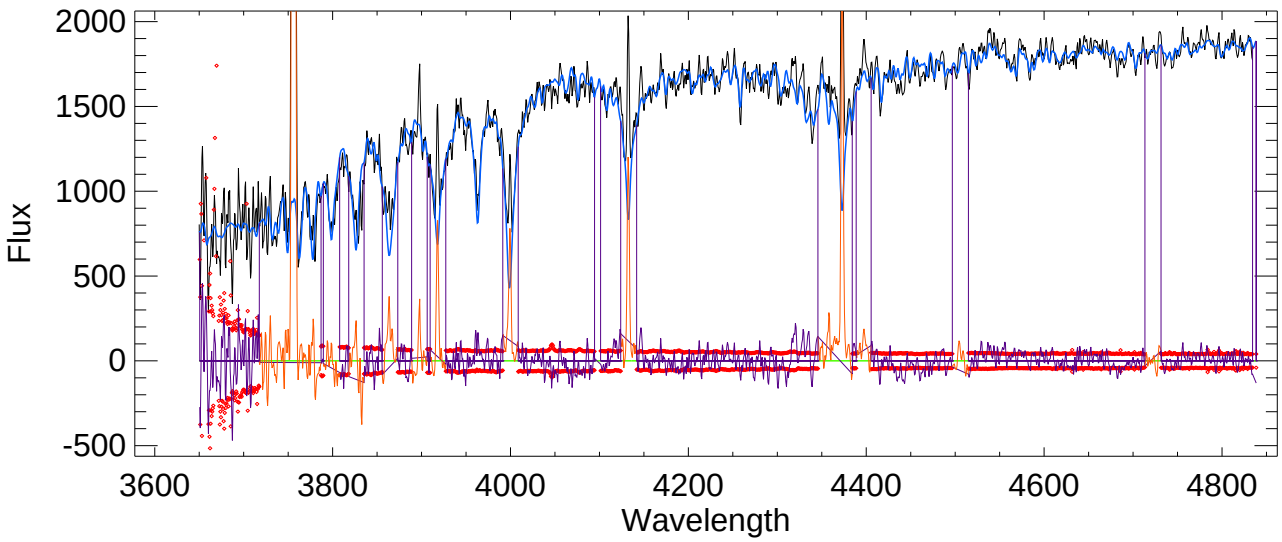

2000
1500
1000
500
0
-500
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

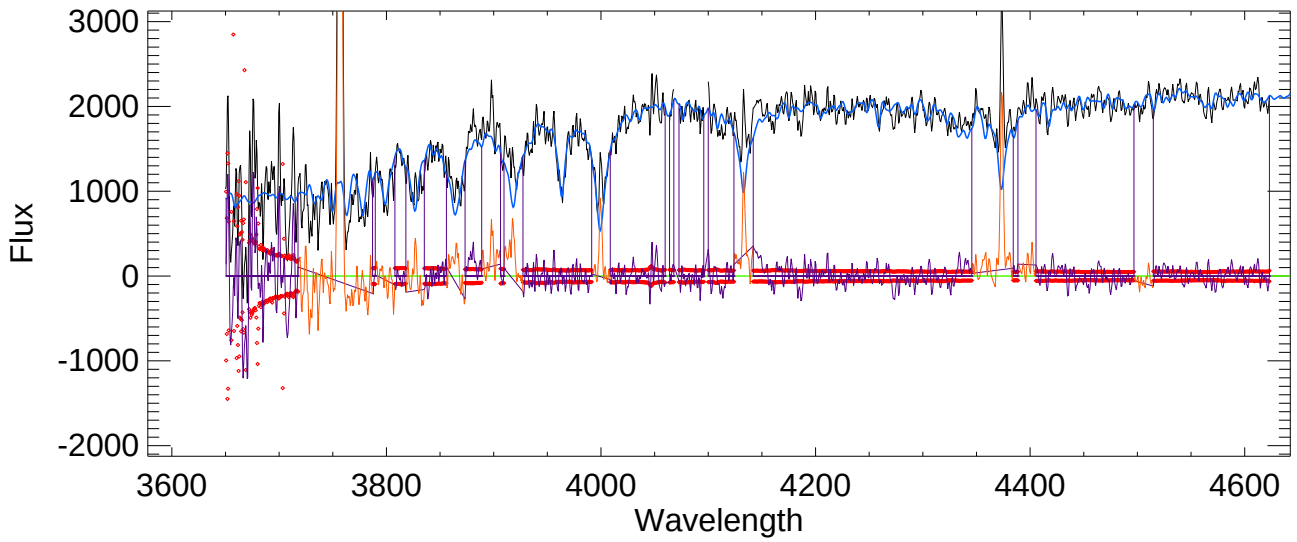

2000
1500
1000
500
0
-500
-1000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

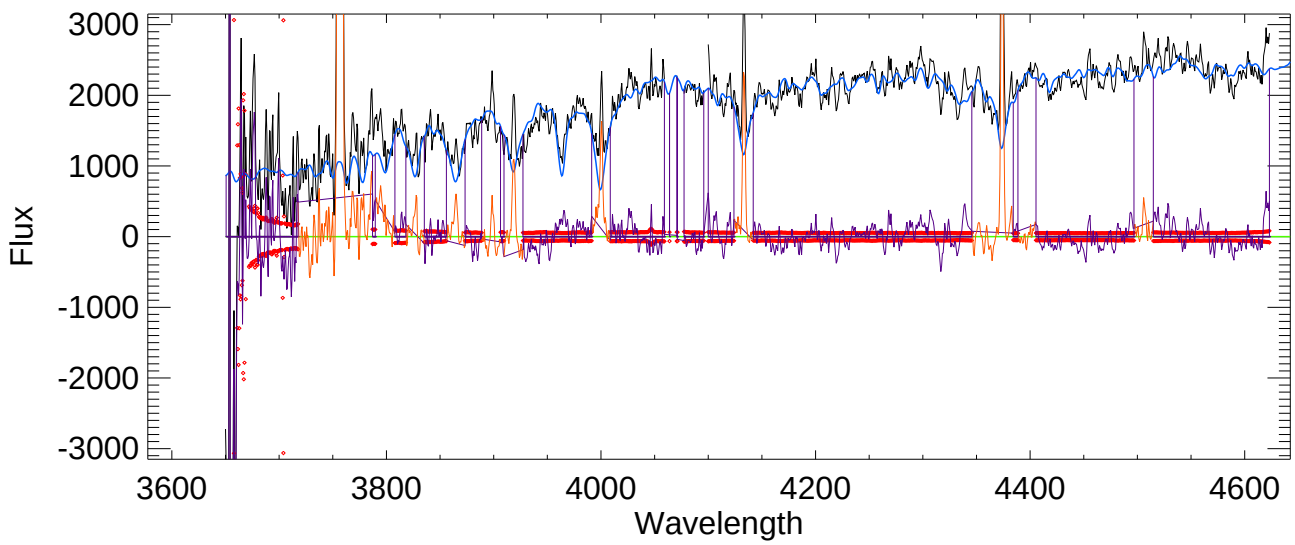

2000
1500
1000
500
0
-500
-1000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

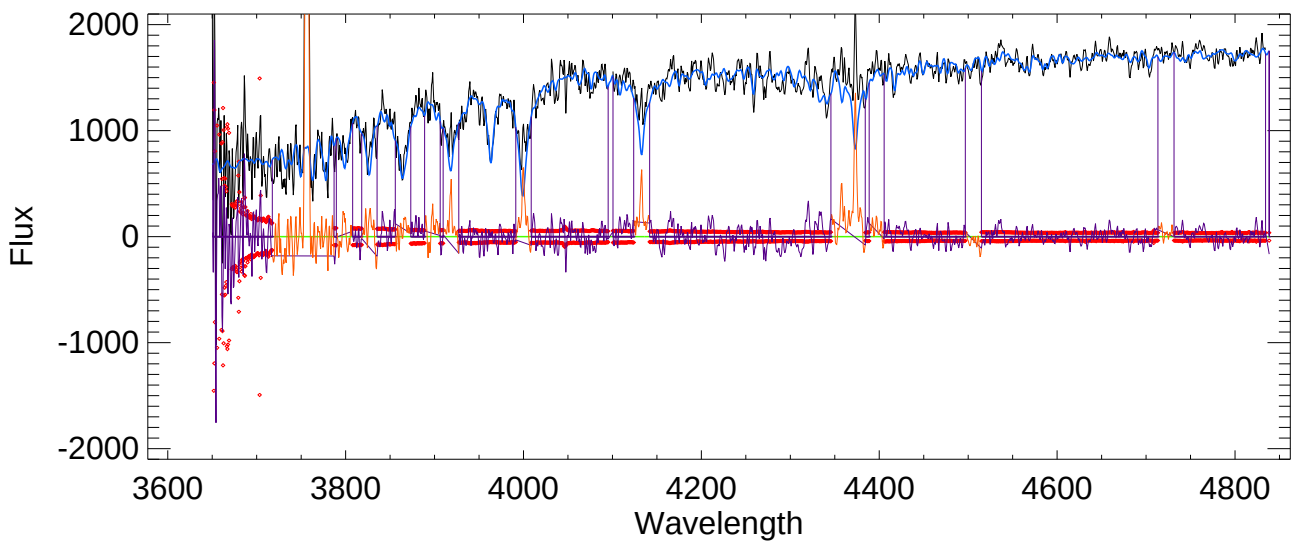

1500
1000
500
0
-500
-1000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

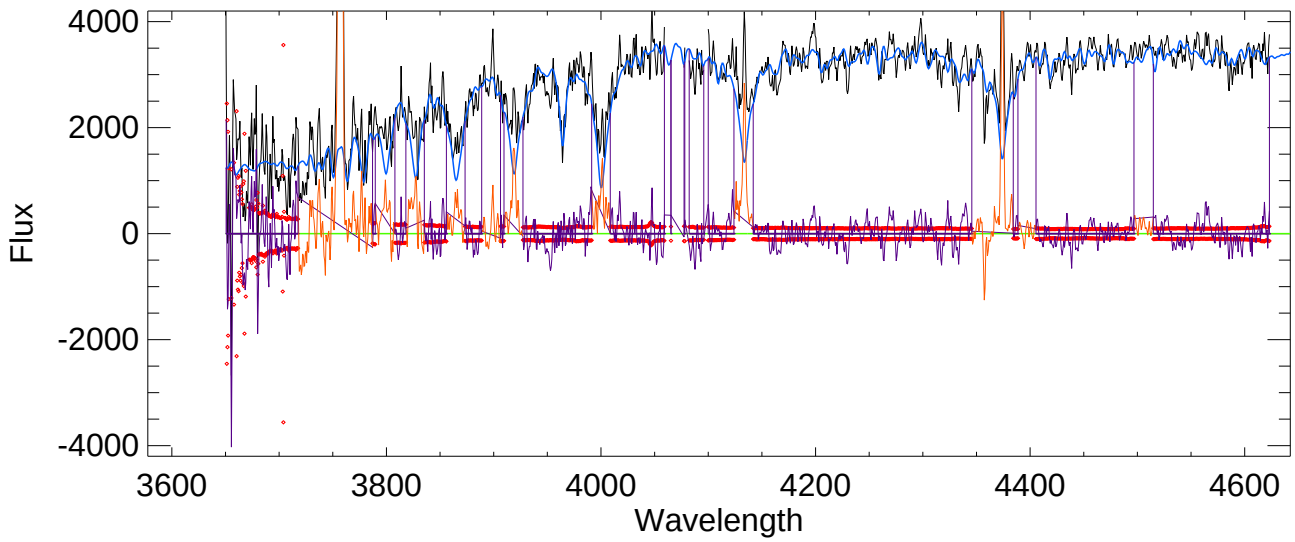

2000
1500
1000
500
0
-500
-1000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

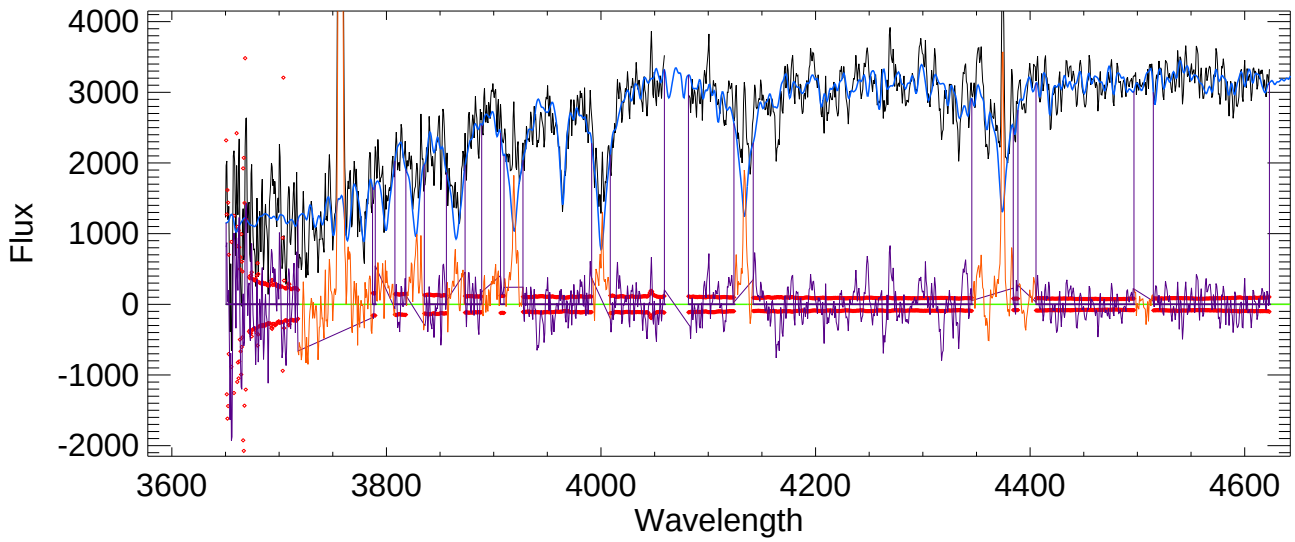

2000
1500
1000
500
0
-500
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

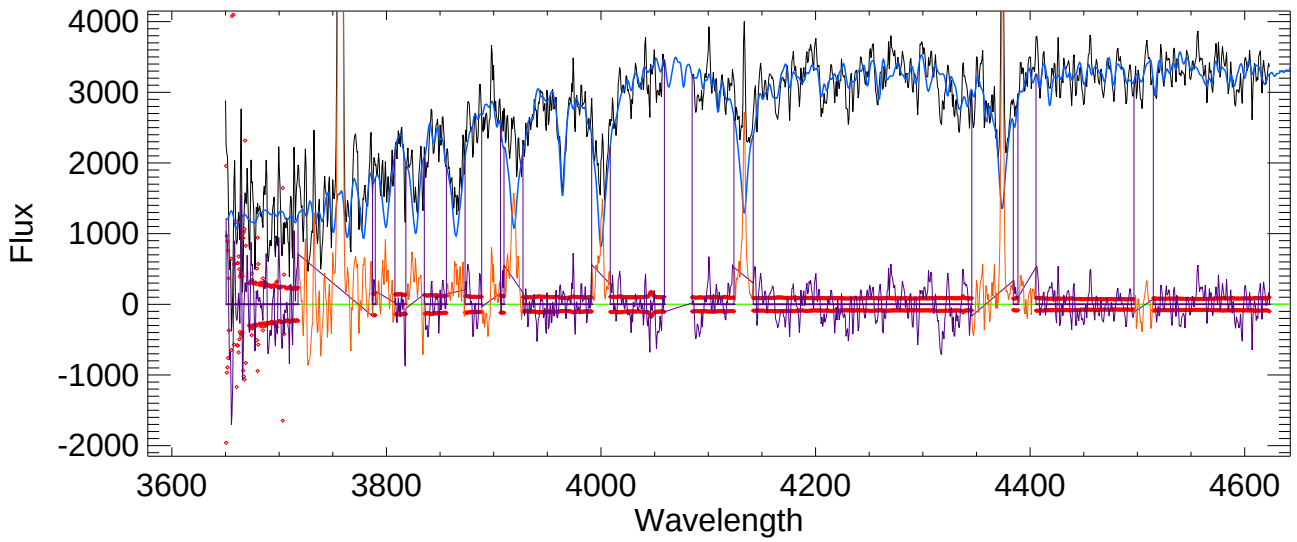

3000
2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

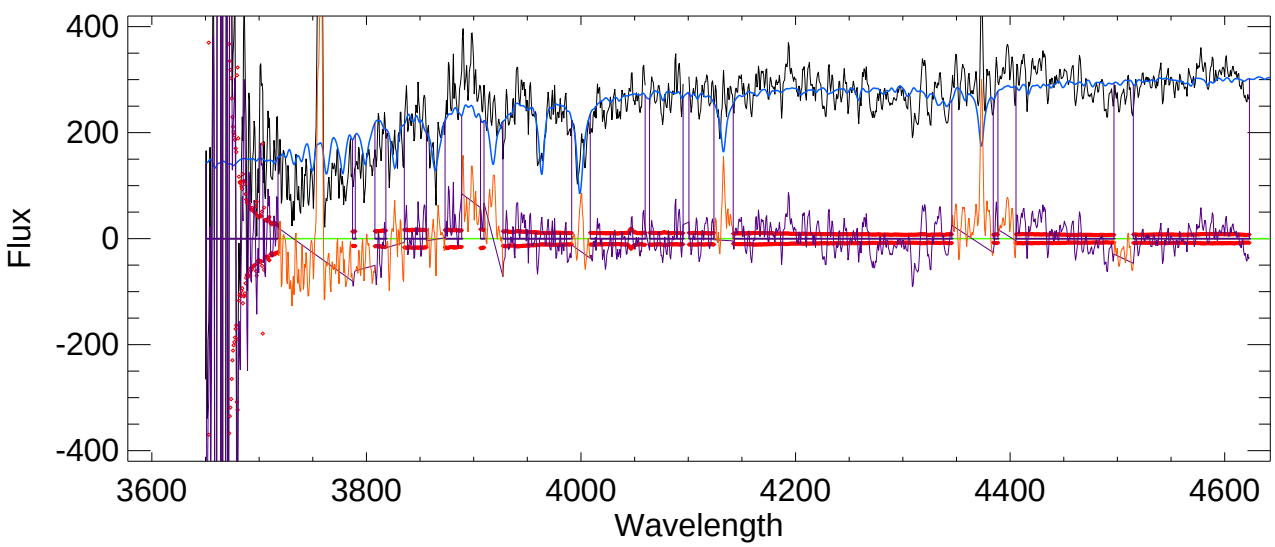

3000
2000
1000
0
-1000
-2000
-3000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

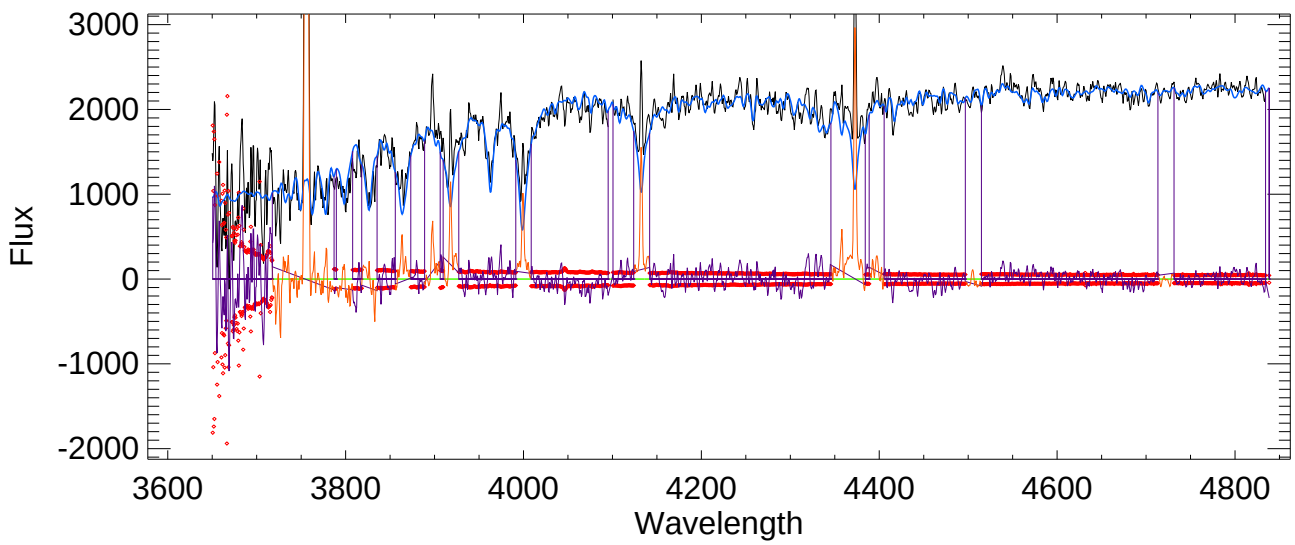

2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

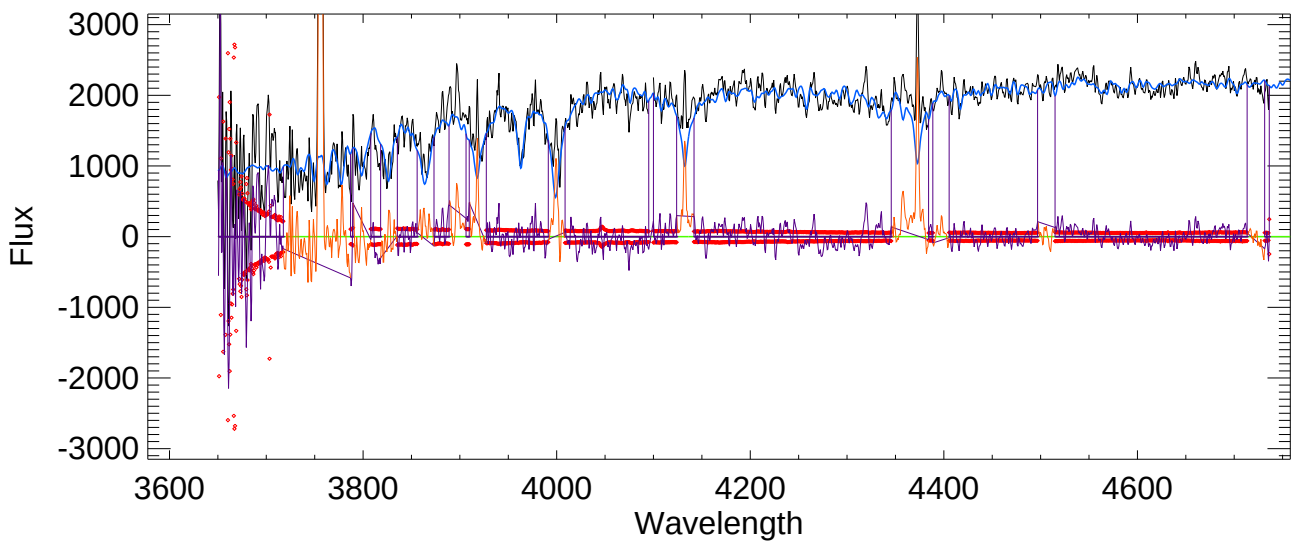

4000
2000
0
-2000
-4000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

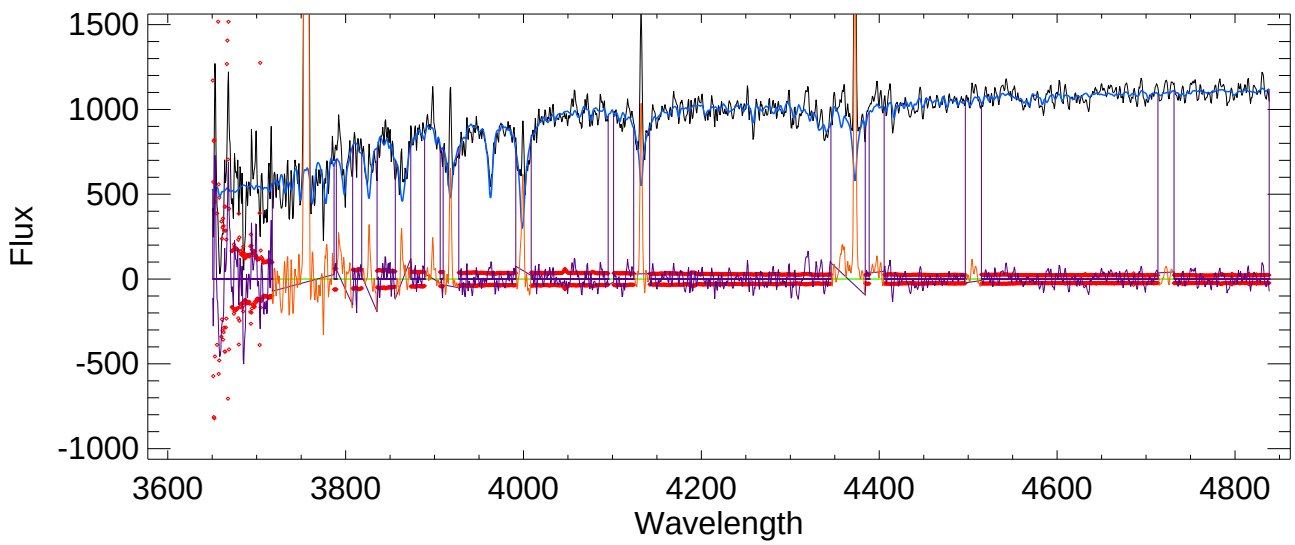

4000
3000
2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

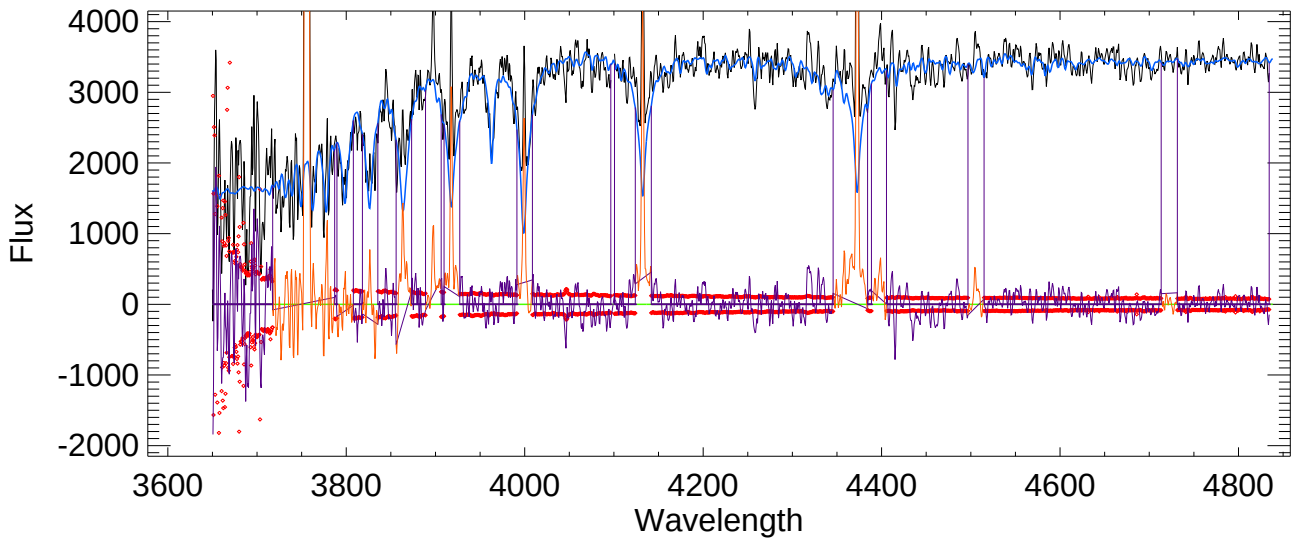

4000
3000
2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

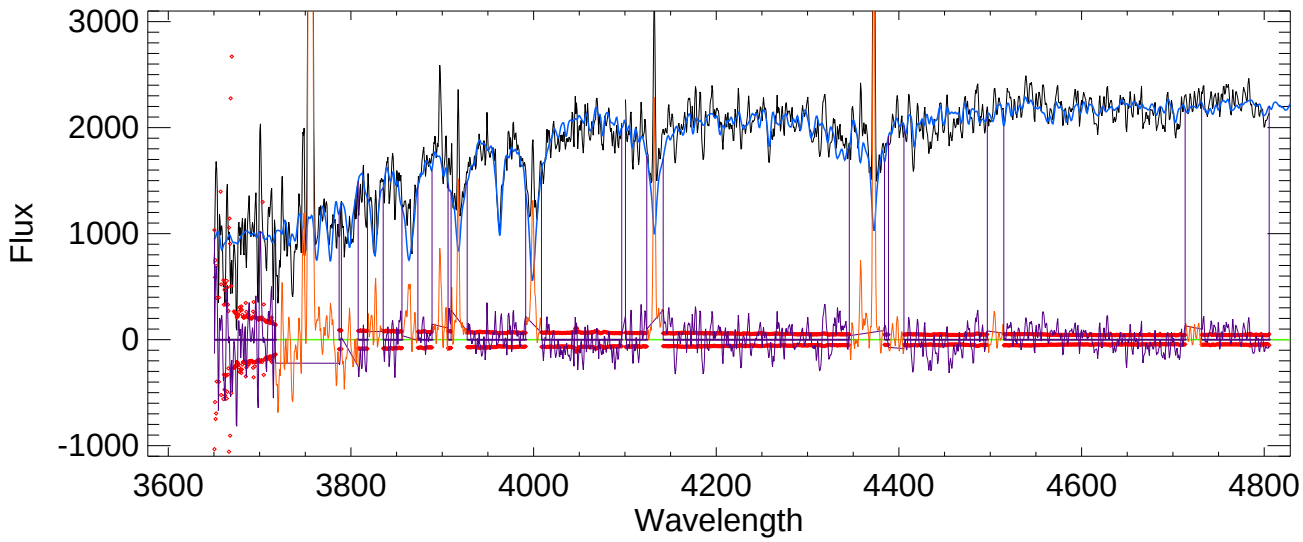

400
200
0
-200
-400
Flux
3600
3800
4000
4200
4400
4600
Wavelength

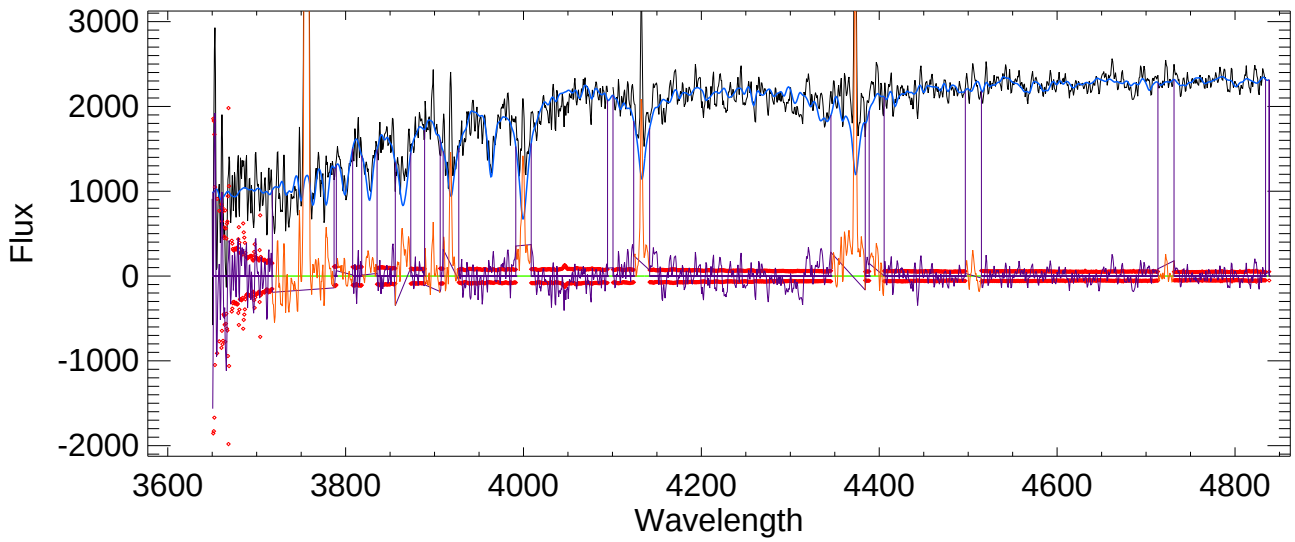

3000
2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

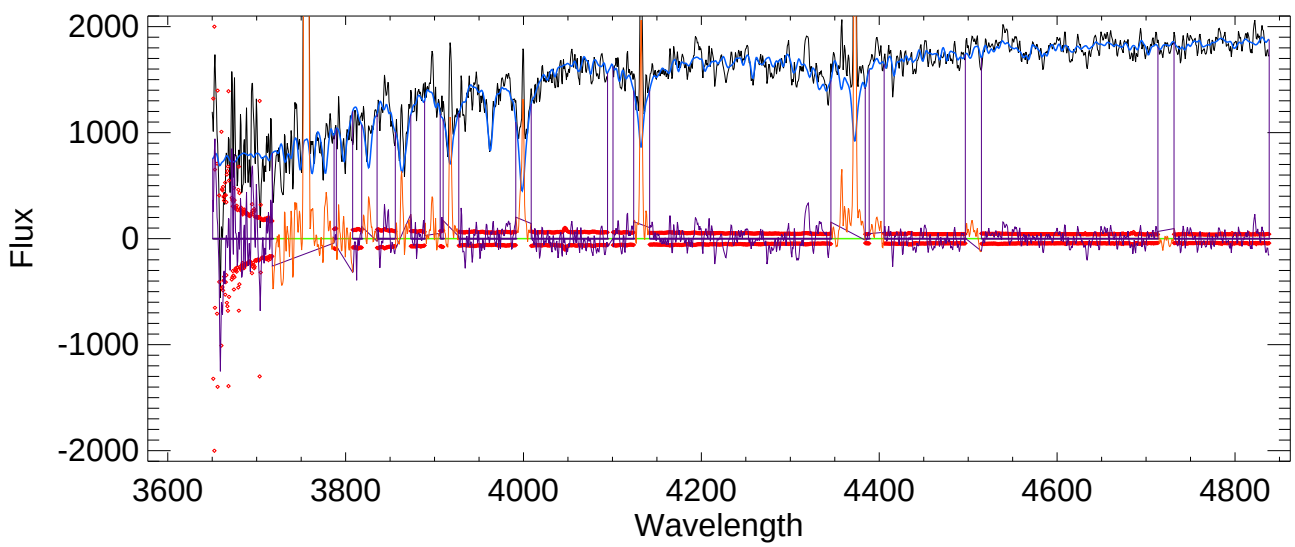

3000
2000
1000
0
-1000
-2000
-3000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

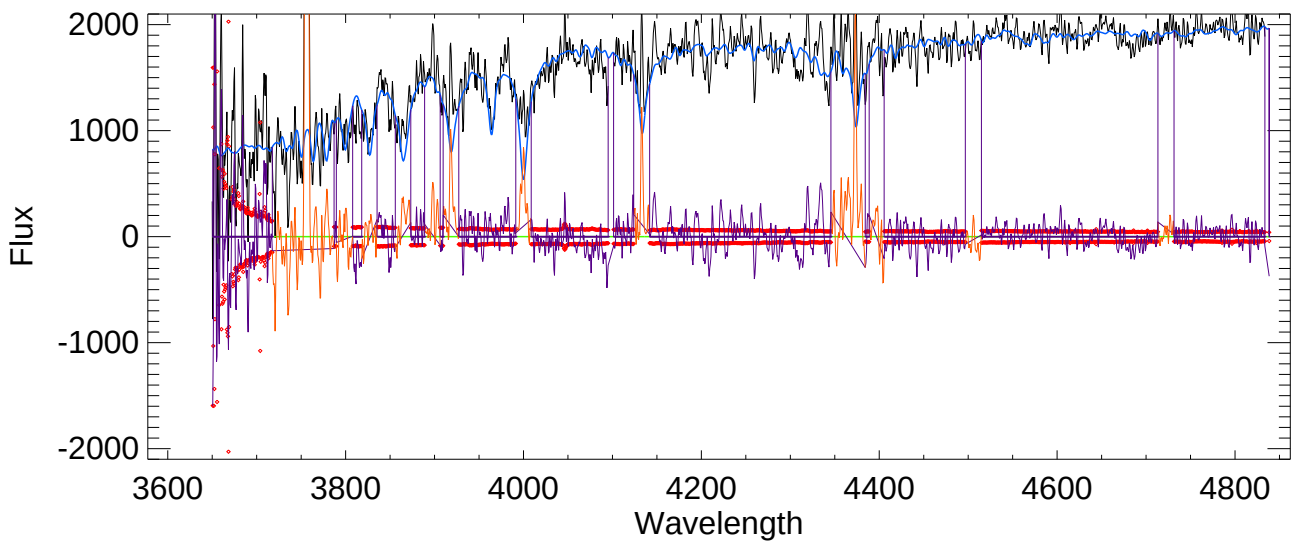

1500
1000
500
0
-500
-1000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

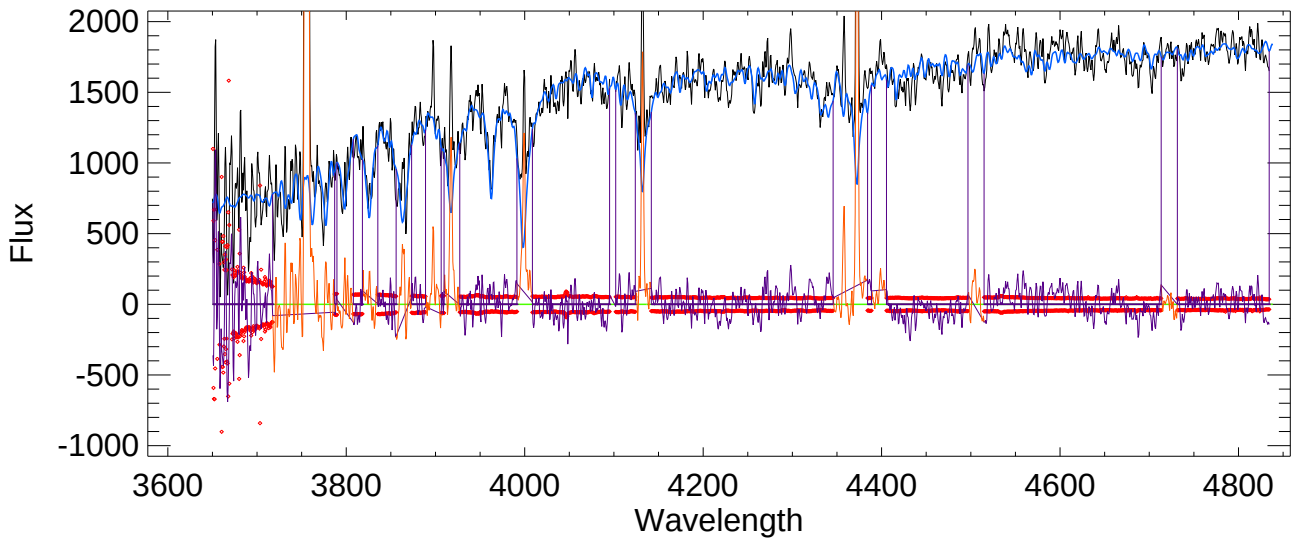

4000
3000
2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

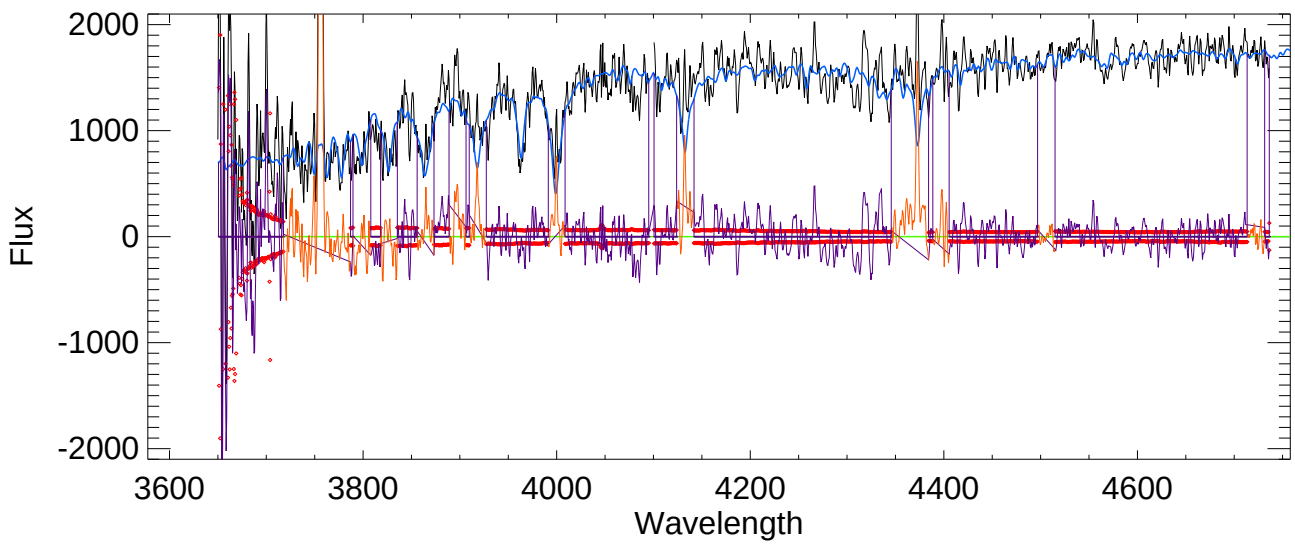

3000
2000
1000
0
-1000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

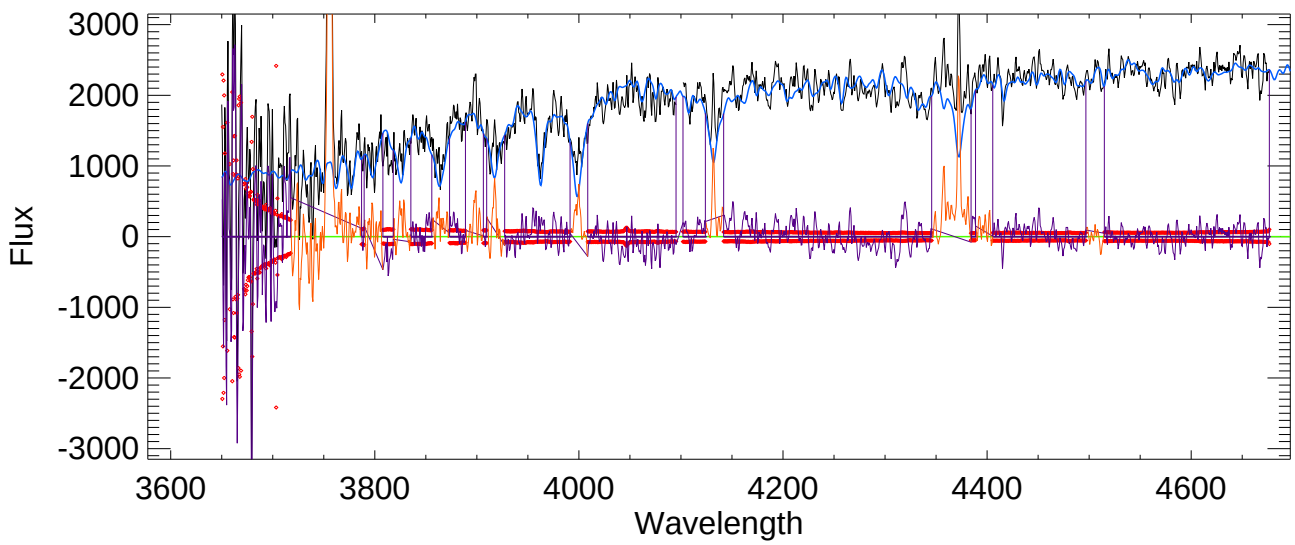

3000
2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

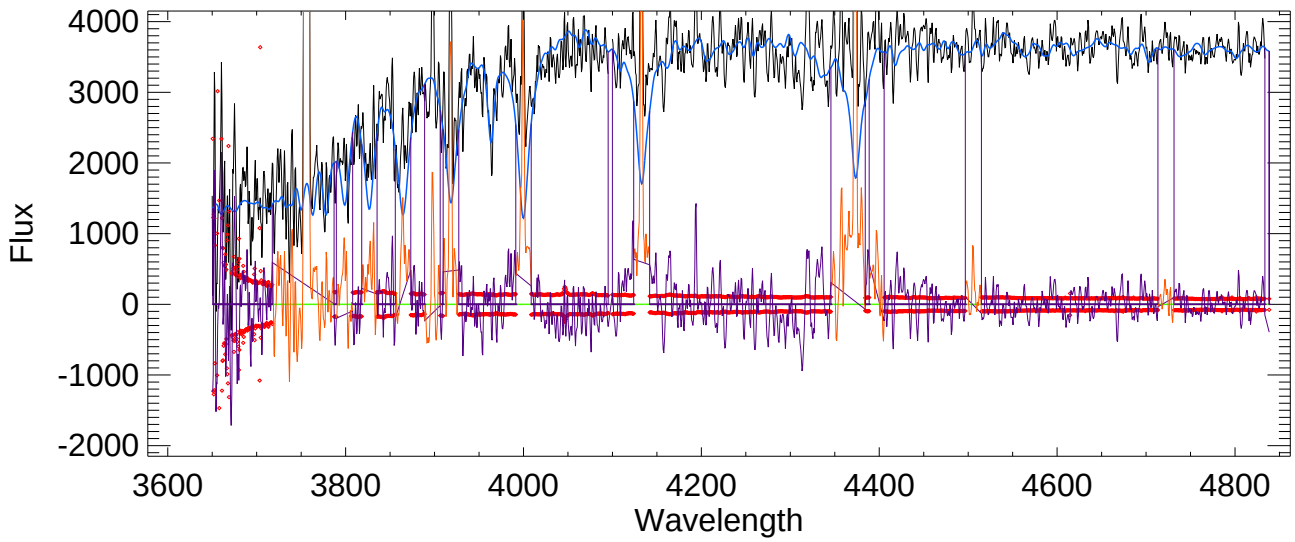

2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

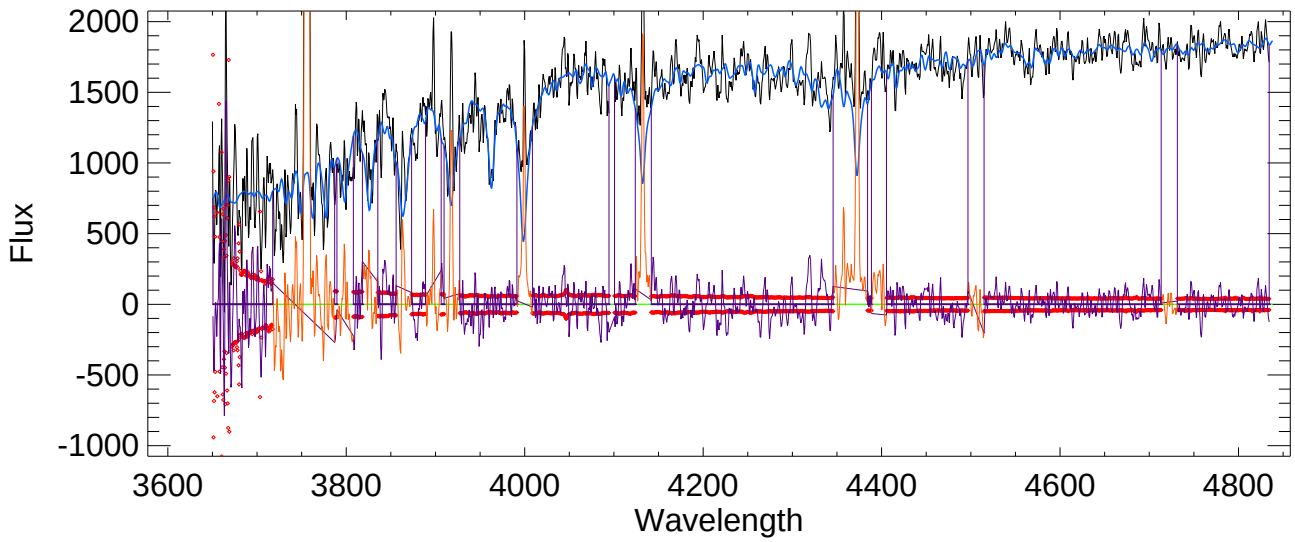

2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

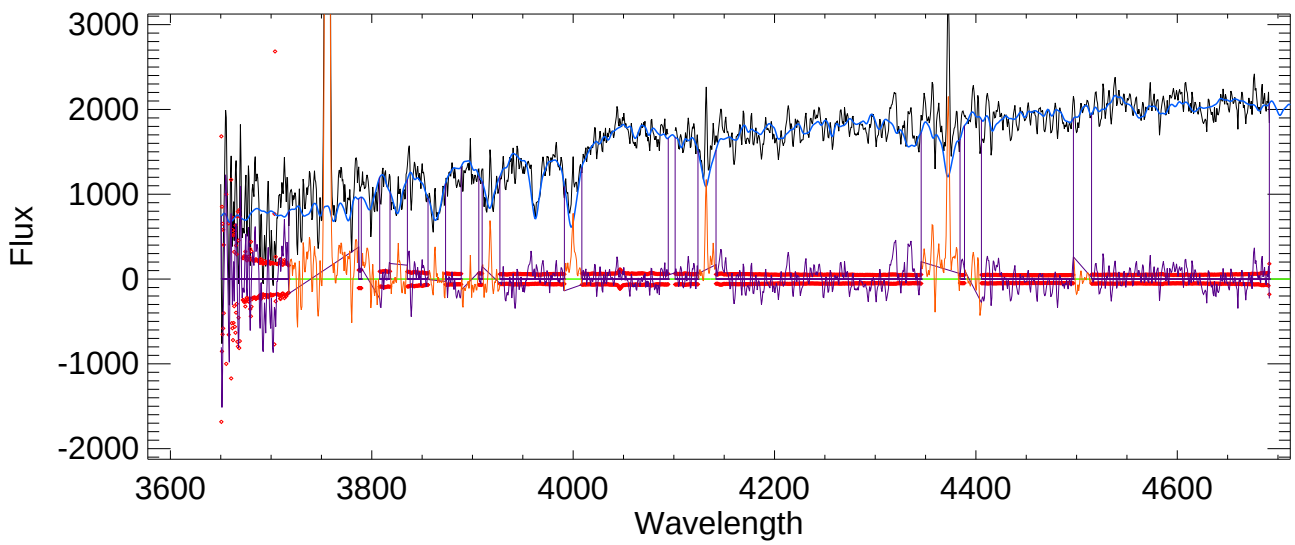

2000
1500
1000
500
0
-500
-1000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

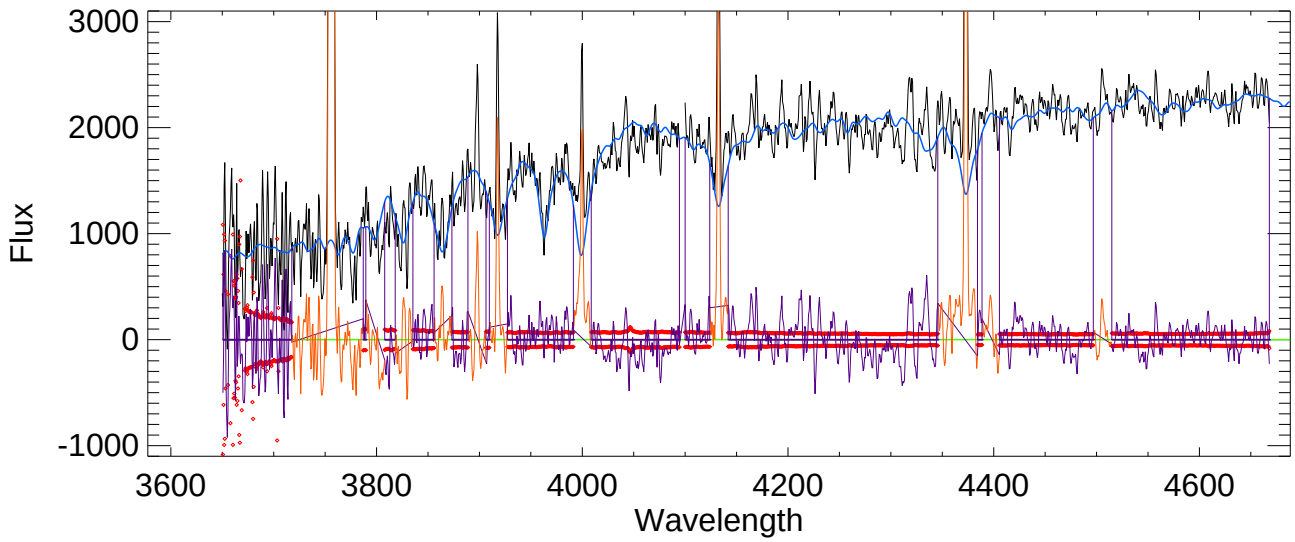

2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

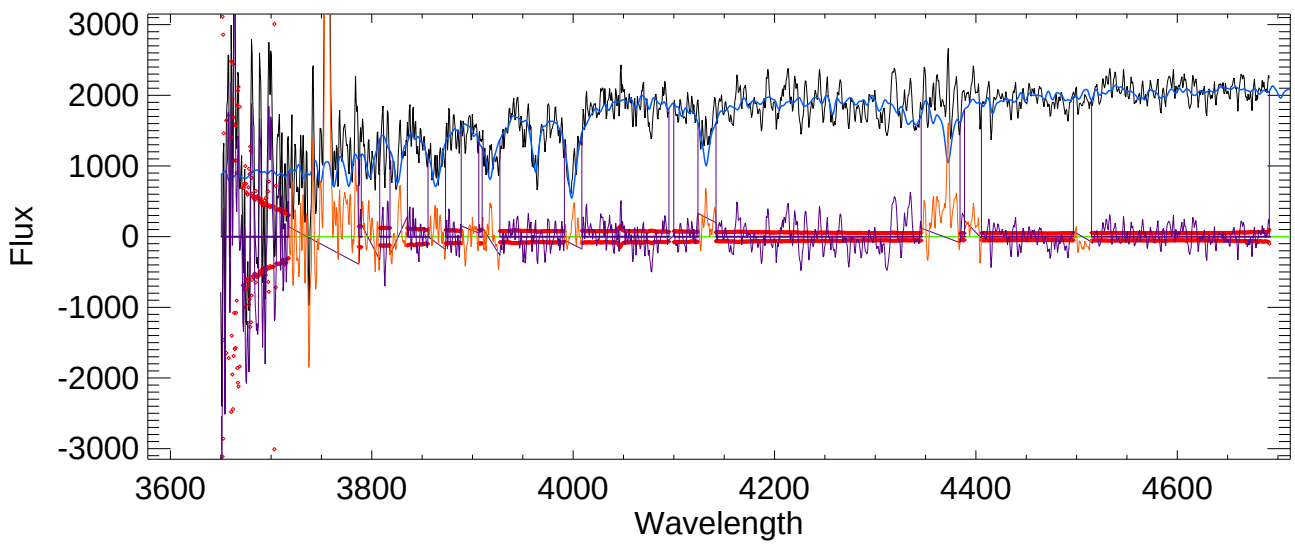

3000
2000
1000
0
-1000
-2000
-3000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

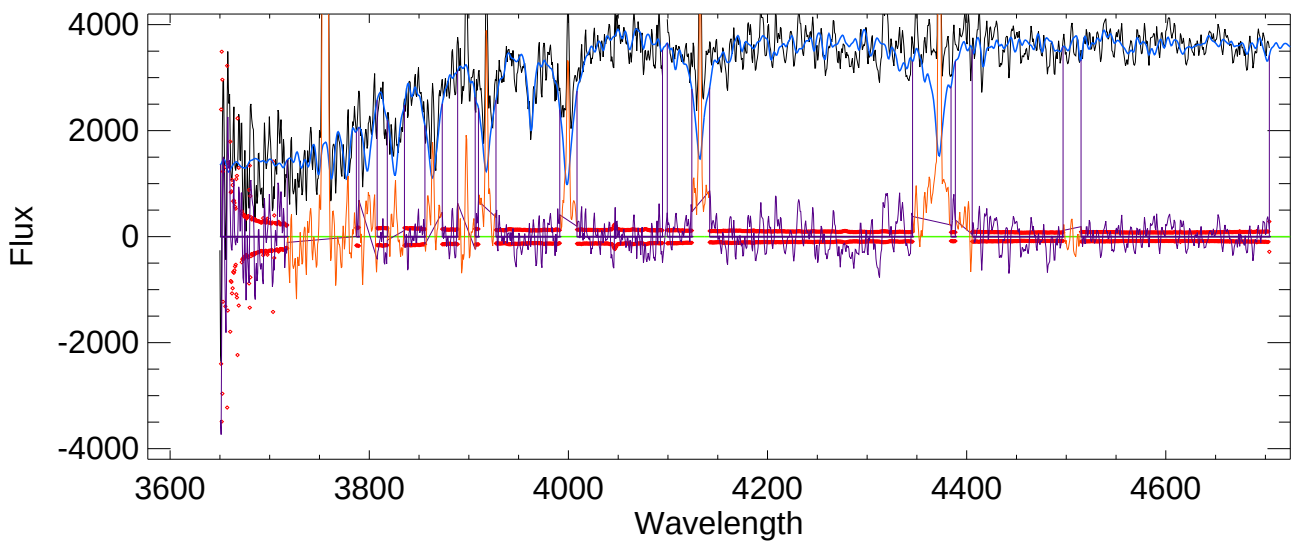

4000
3000
2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

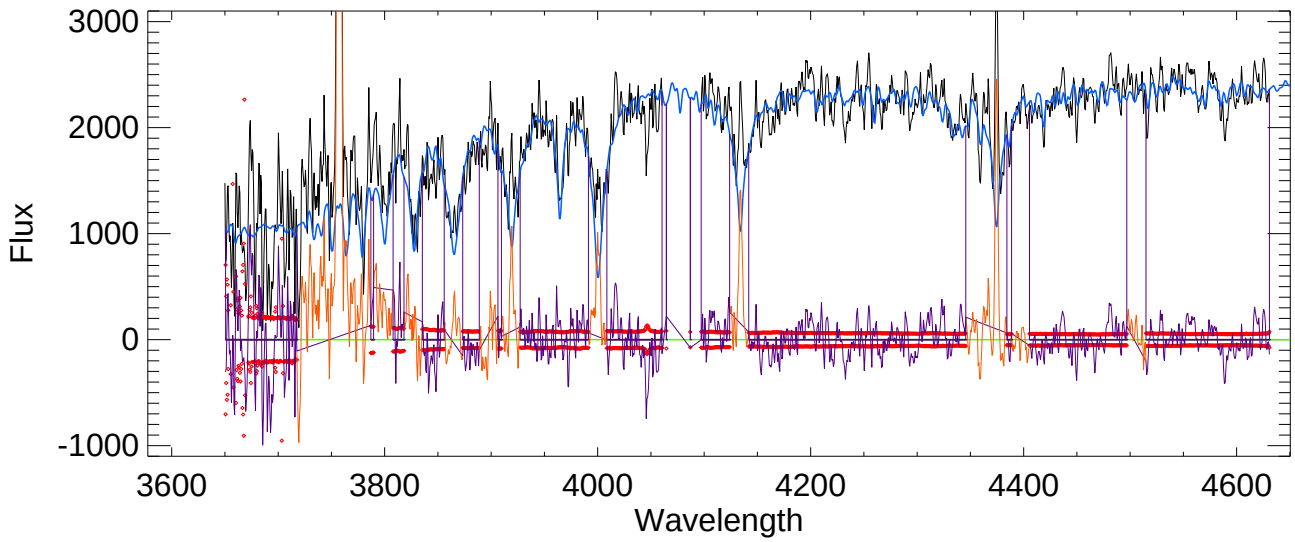

2000
1500
1000
500
0
-500
-1000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

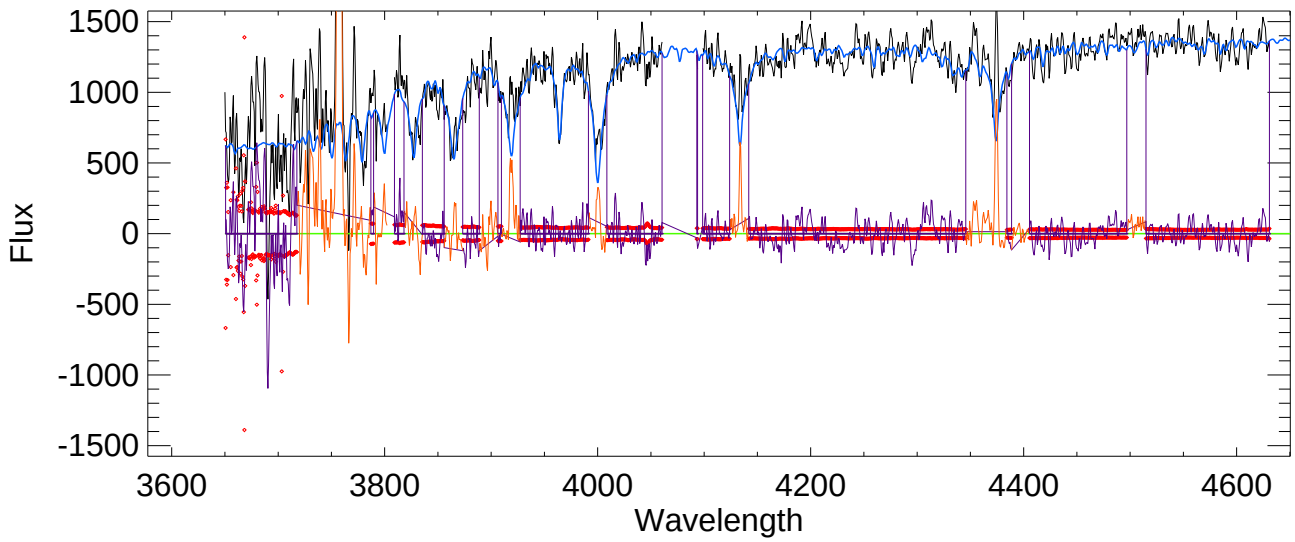

3000
2000
1000
0
-1000
-2000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

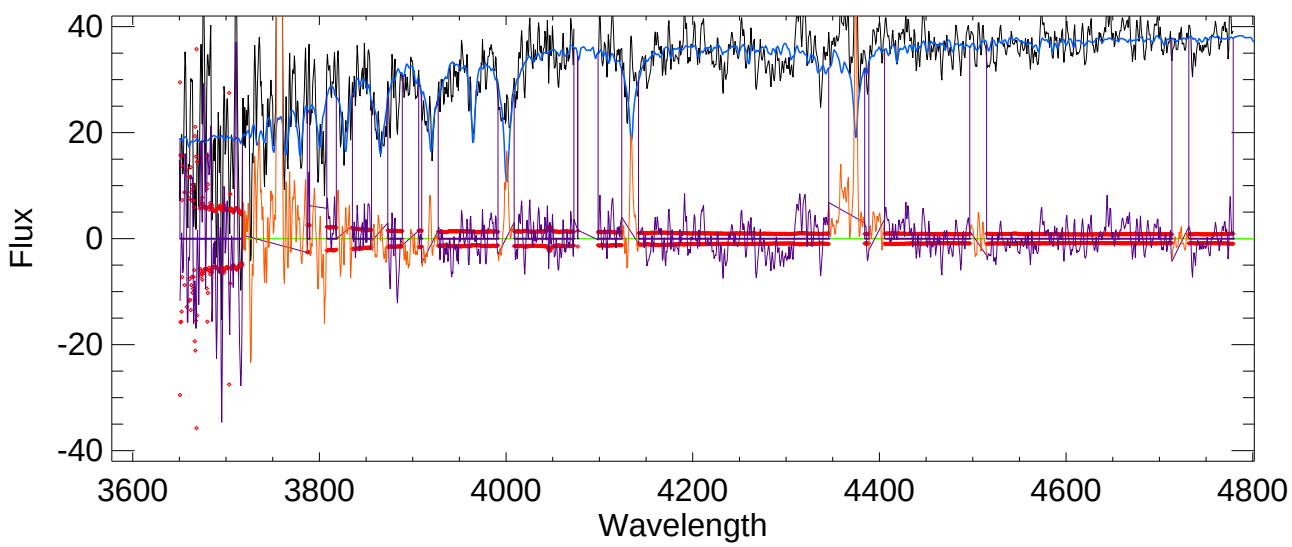

3000
2000
1000
0
-1000
Flux
3600
3800
4000
4200
4400
4600
Wavelength

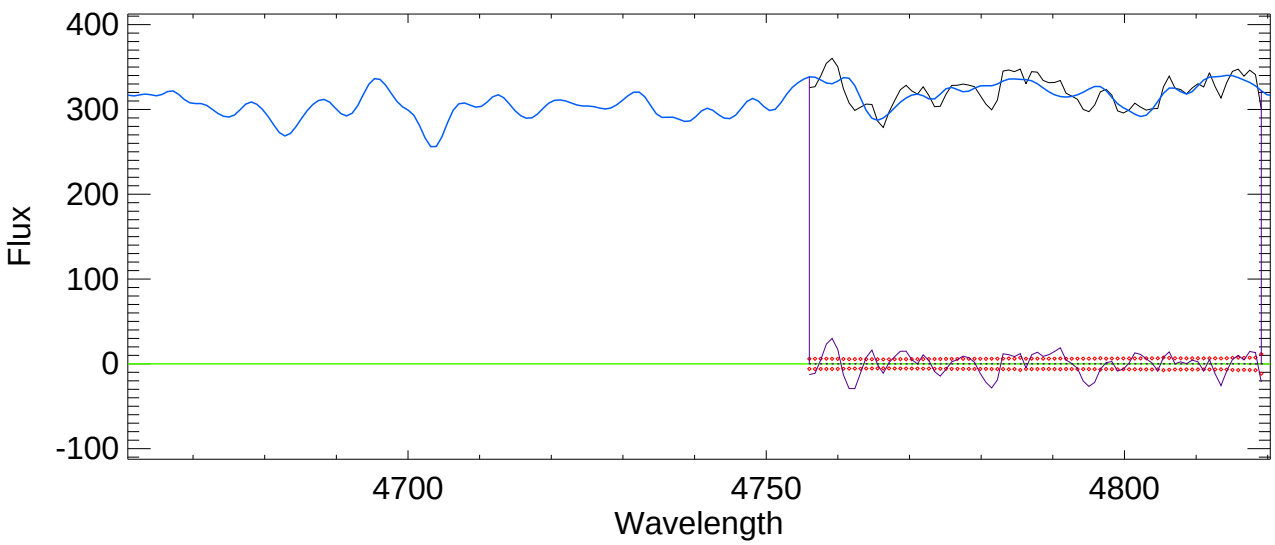

3000
2000
1000
0
-1000
-2000
-3000
Flux
3600
3800
4000
4200
4400
4600
Wavelength


4000
2000
0
-2000
-4000
Flux
3600
3800
4000
4200
4400
4600
Wavelength


3000
2000
1000
0
-1000
Flux
3600
3800
4000
4200
4400
4600
Wavelength


1500
1000
500
0
-500
-1000
-1500
Flux
3600
3800
4000
4200
4400
4600
Wavelength


40
20
0
-20
-40
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength


400
300
200
100
0
-100
Flux
4700
4750
4800
Wavelength