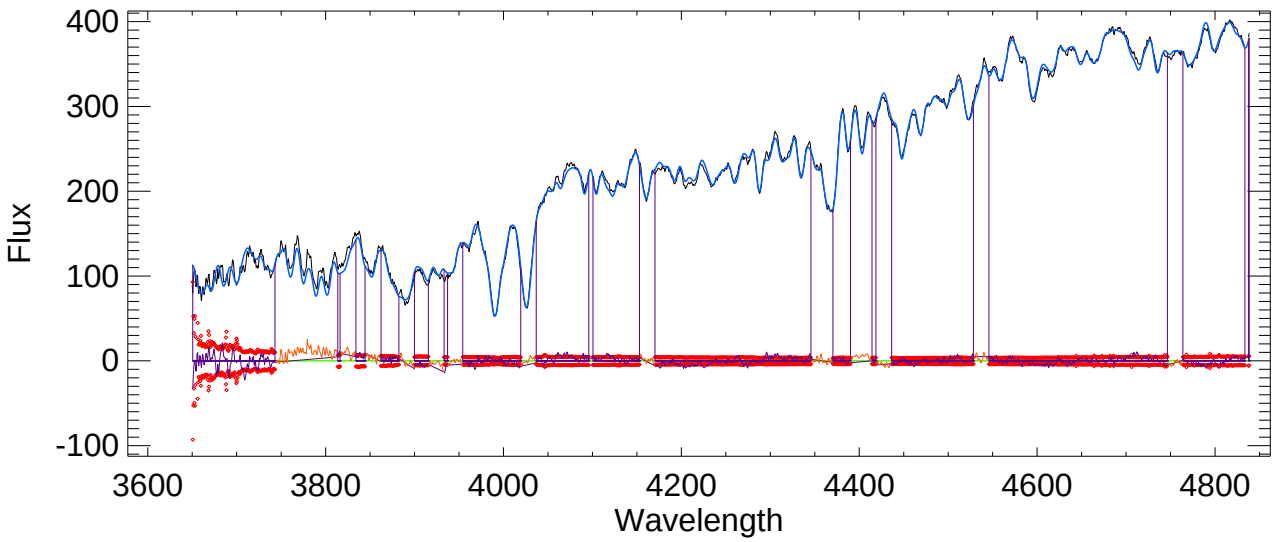
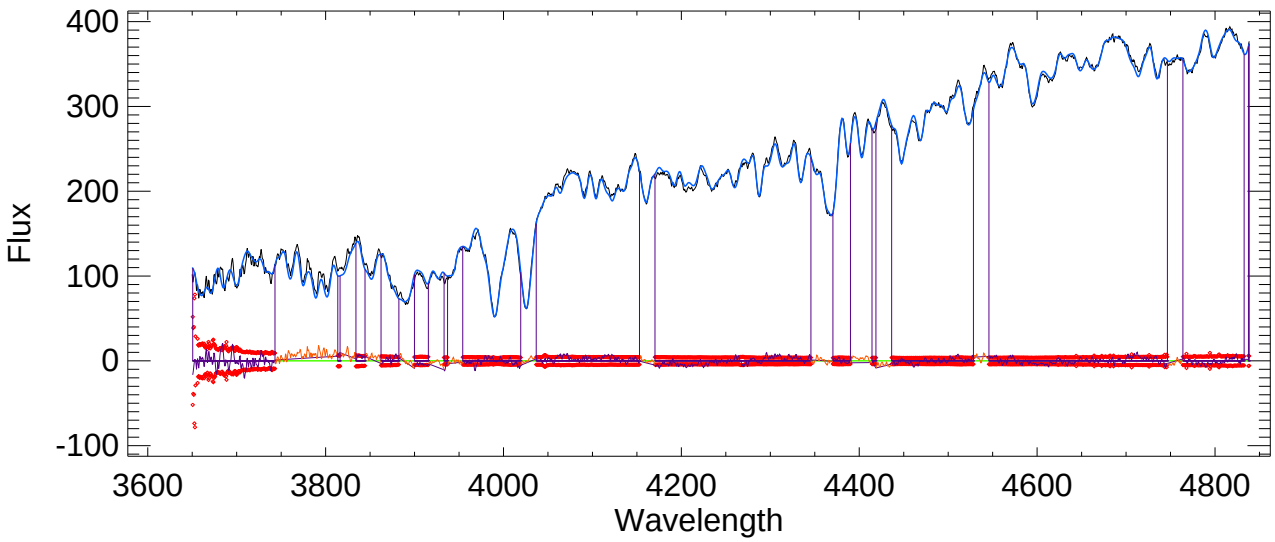
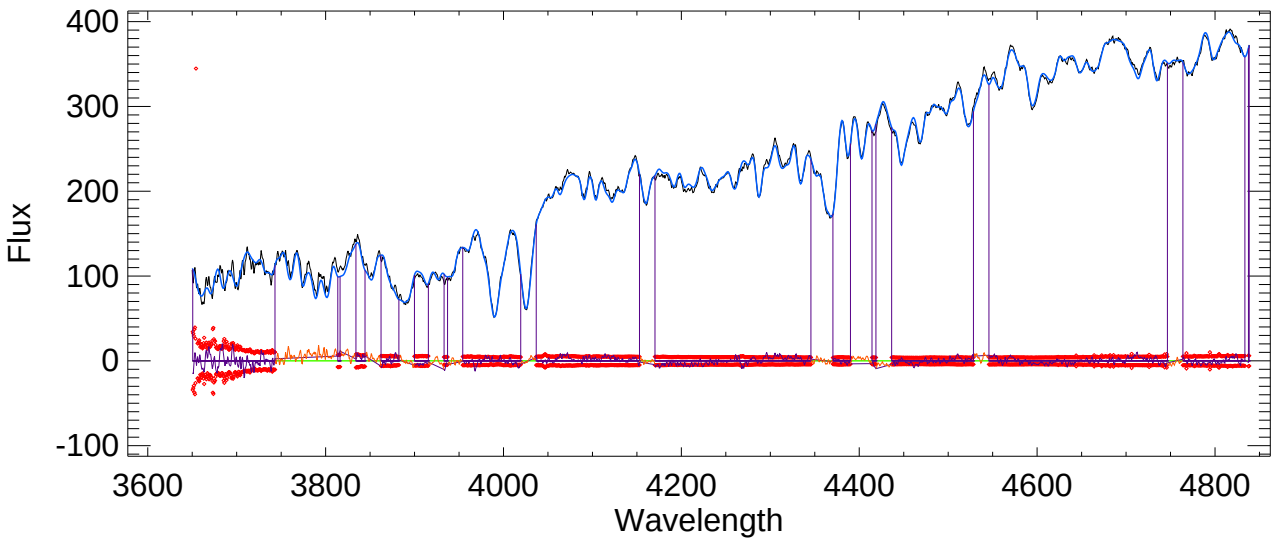
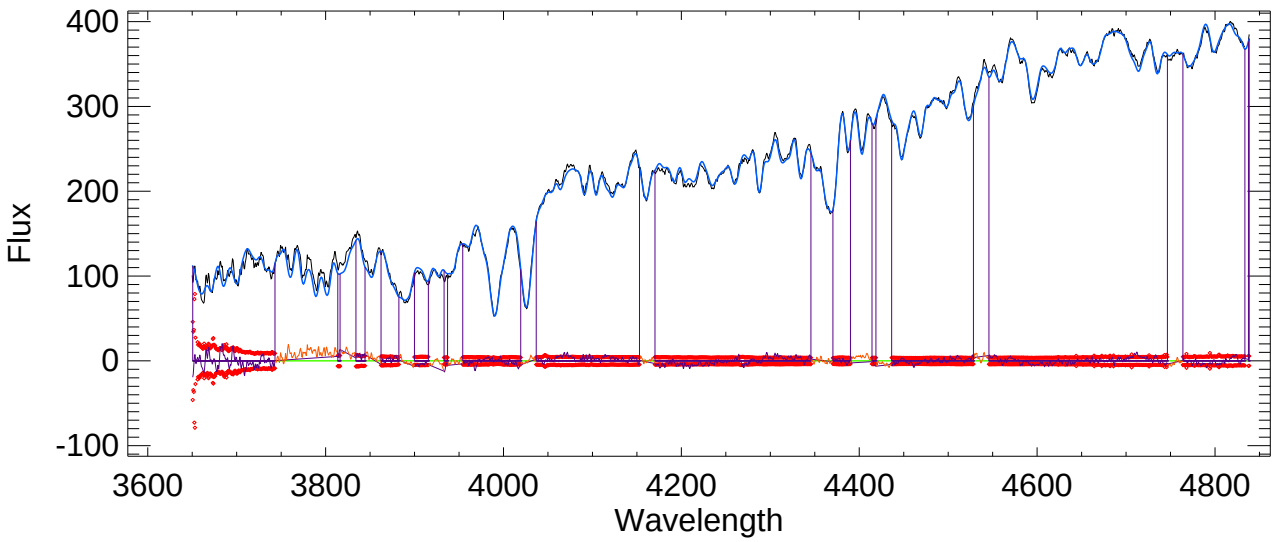
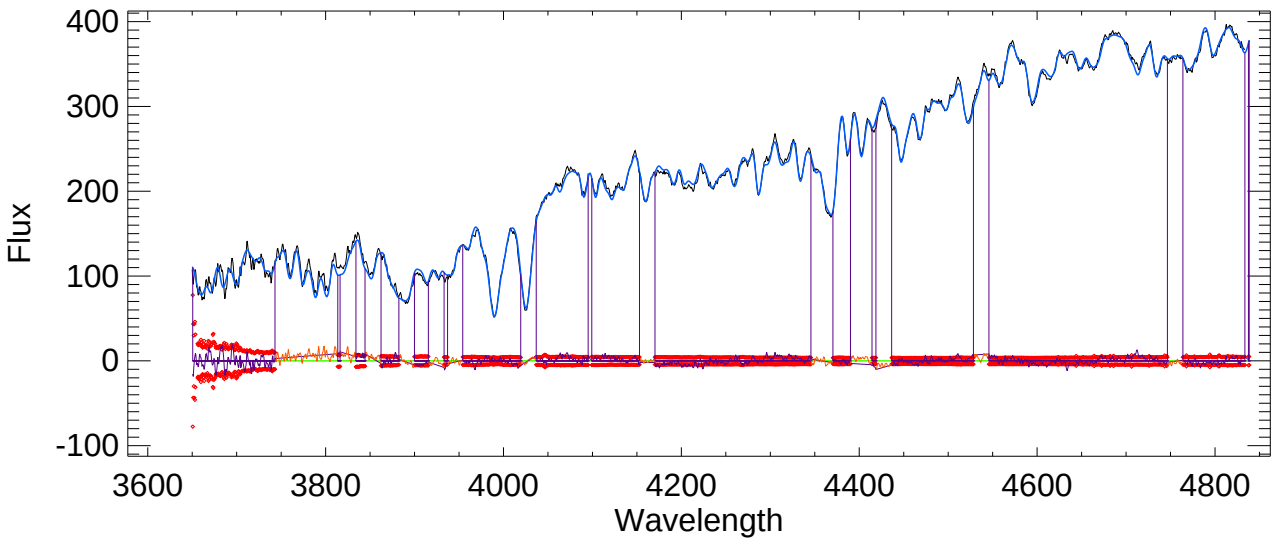
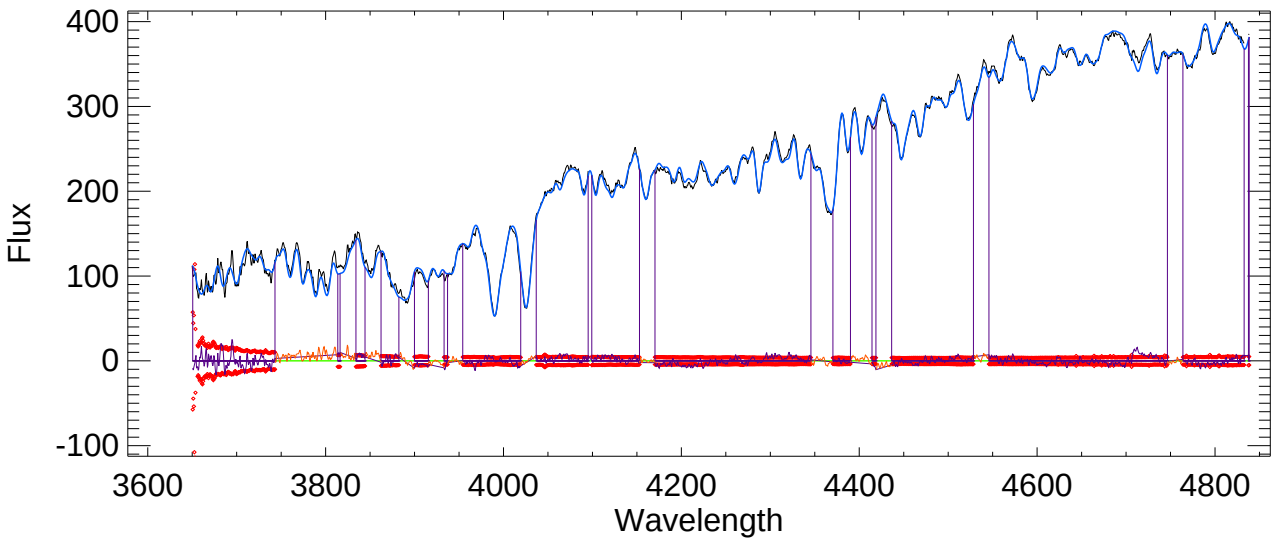

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

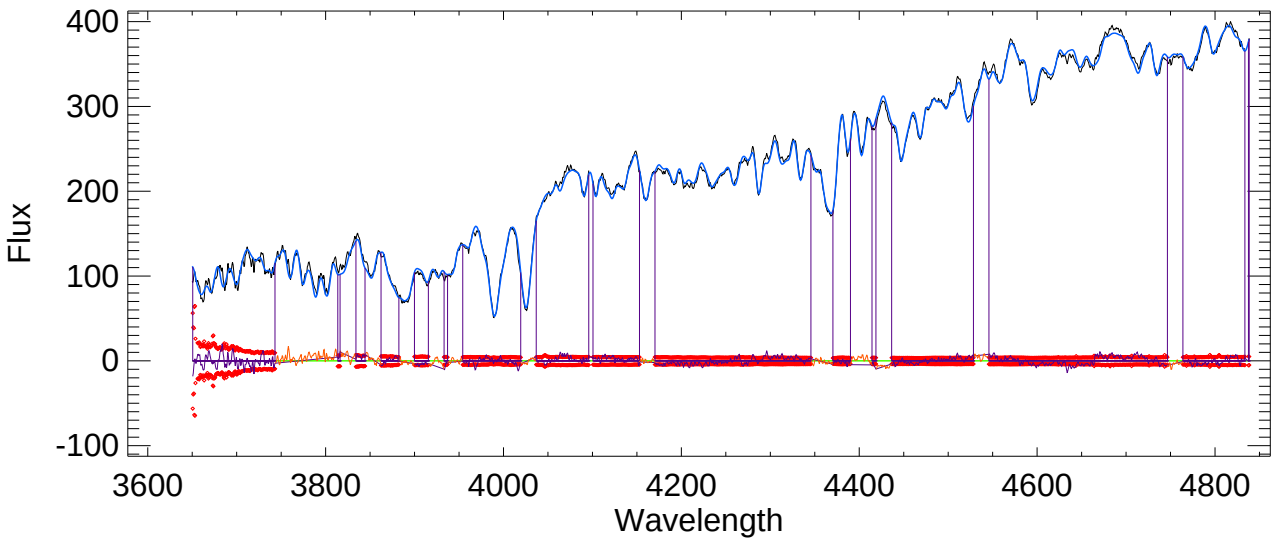

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

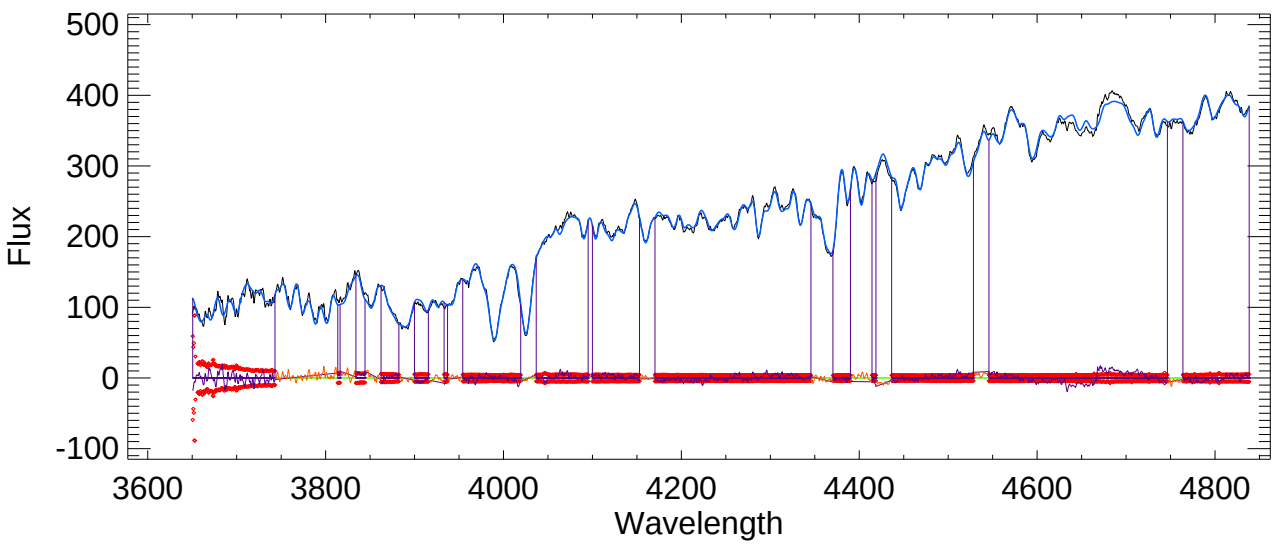

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

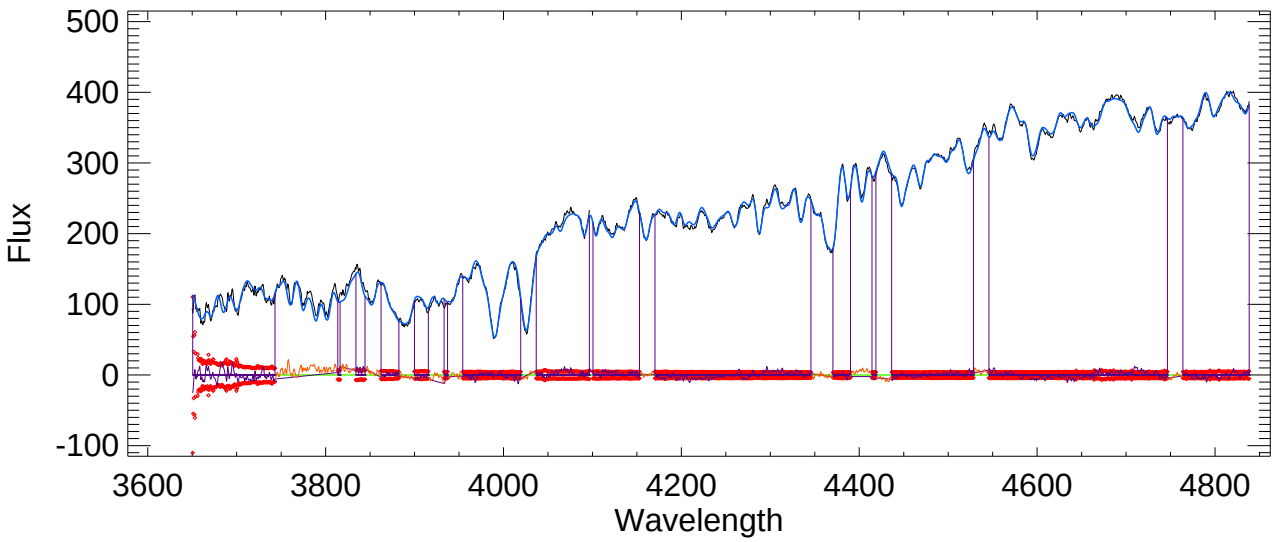

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

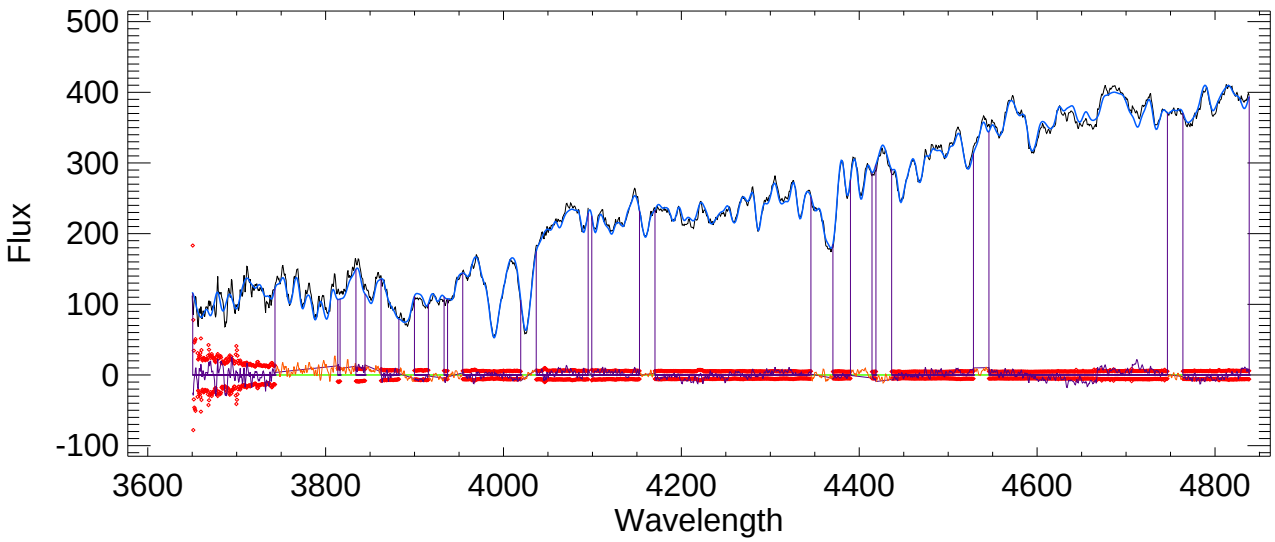

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

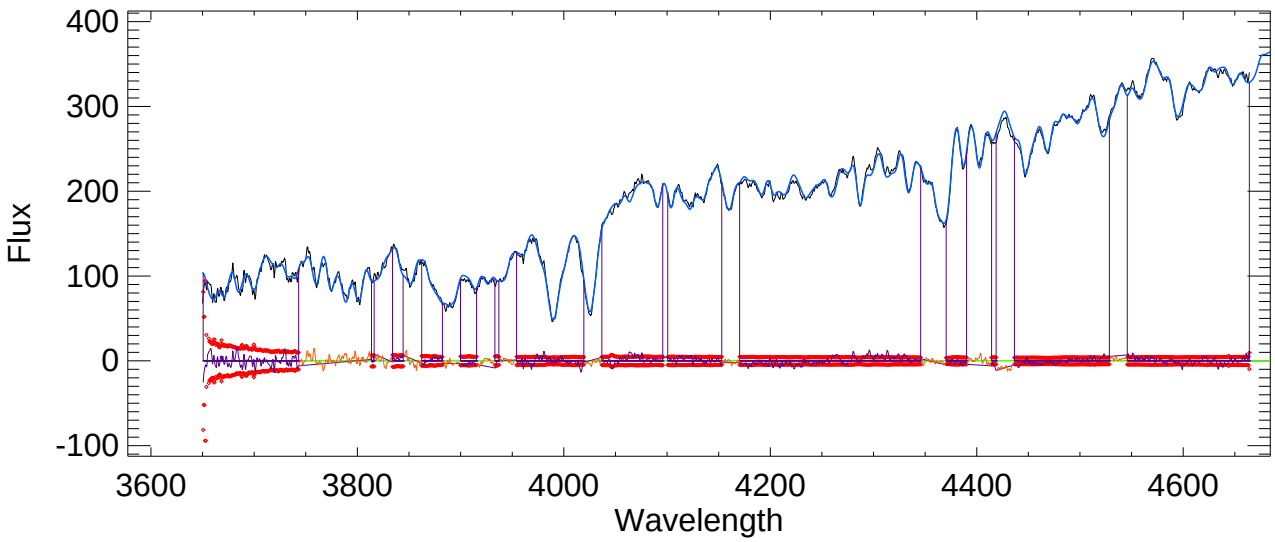

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

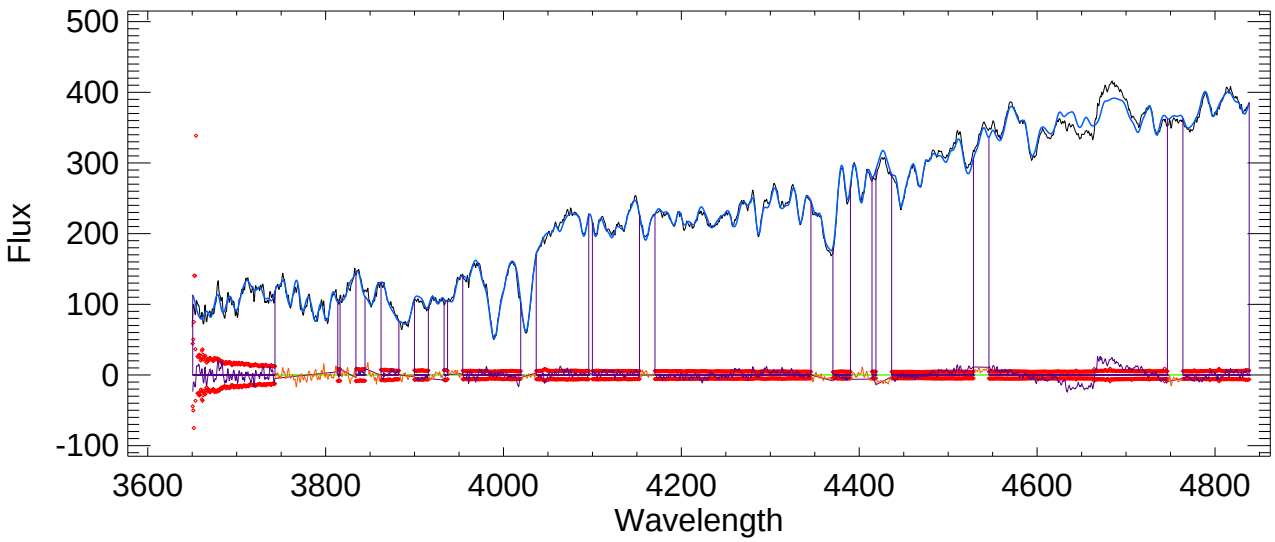

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

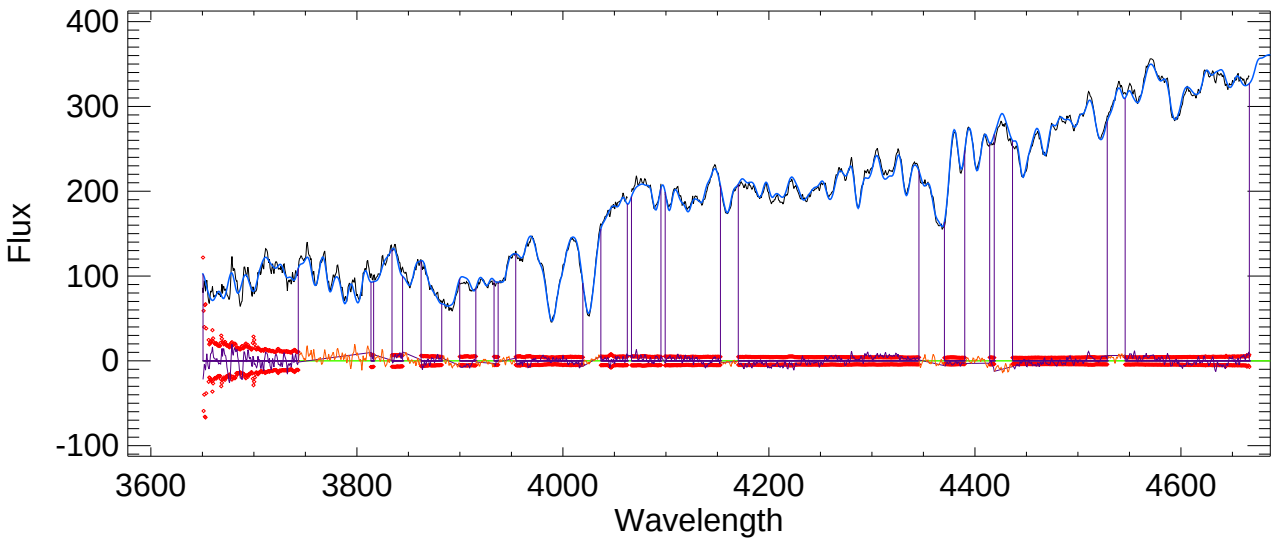

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

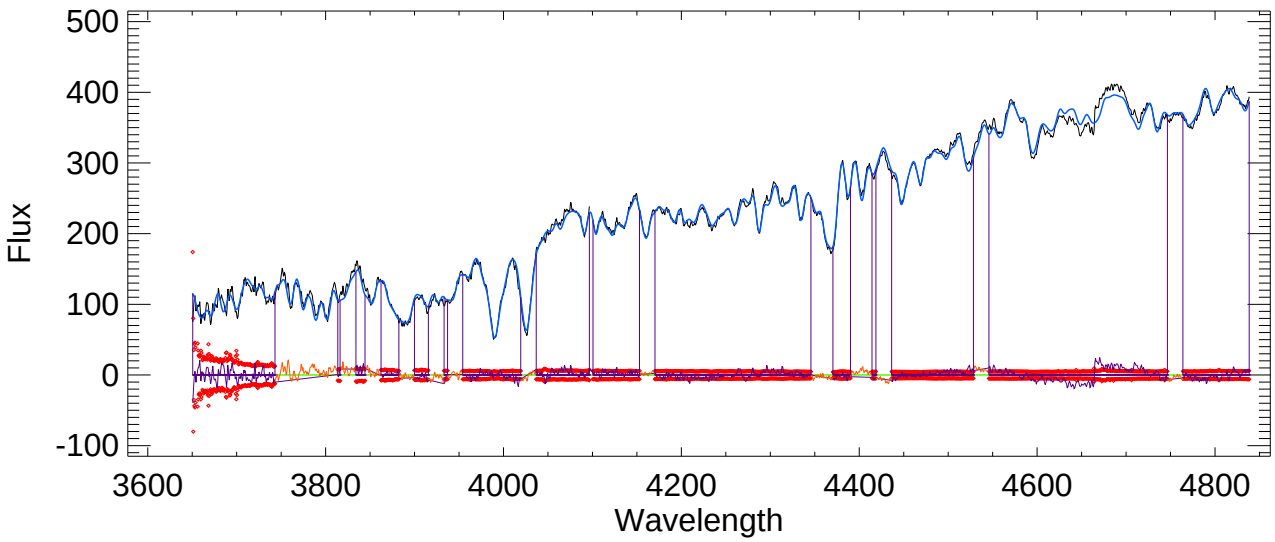

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

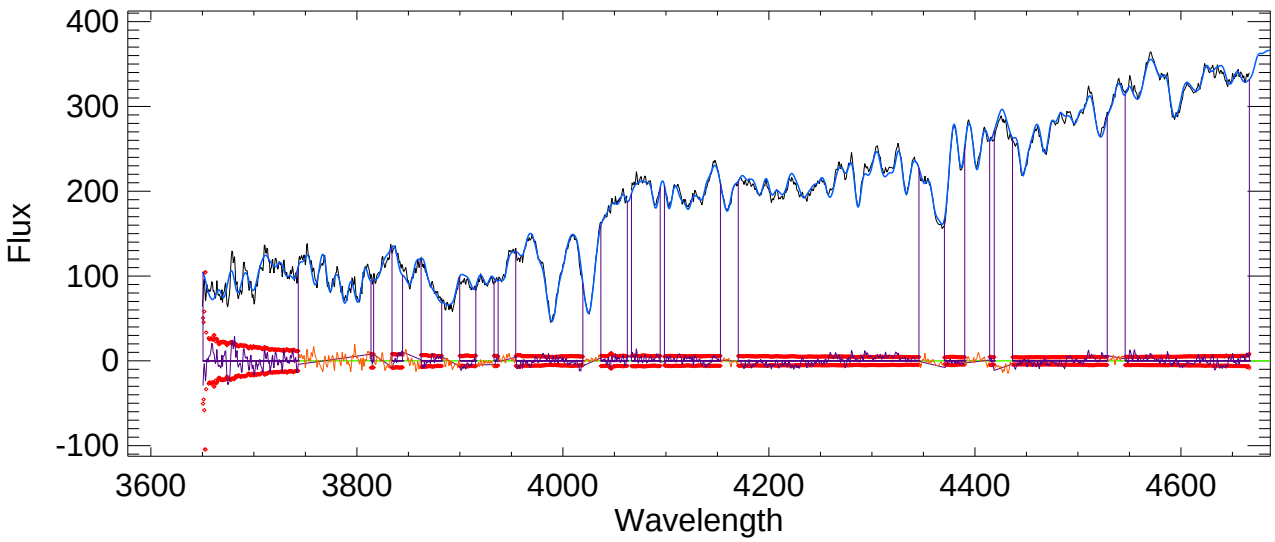

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

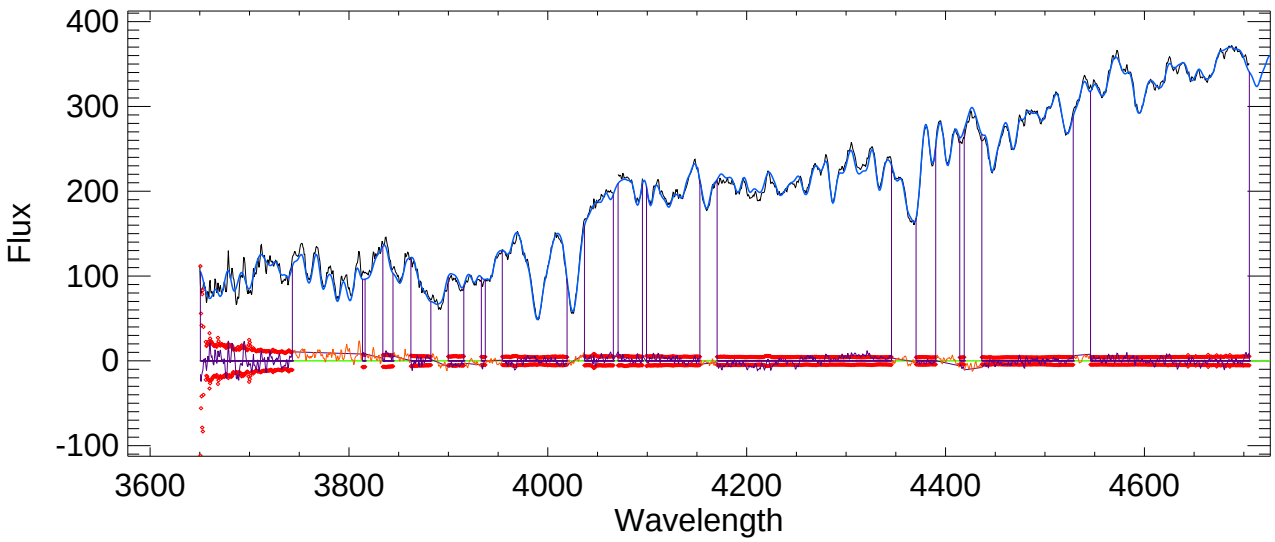

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

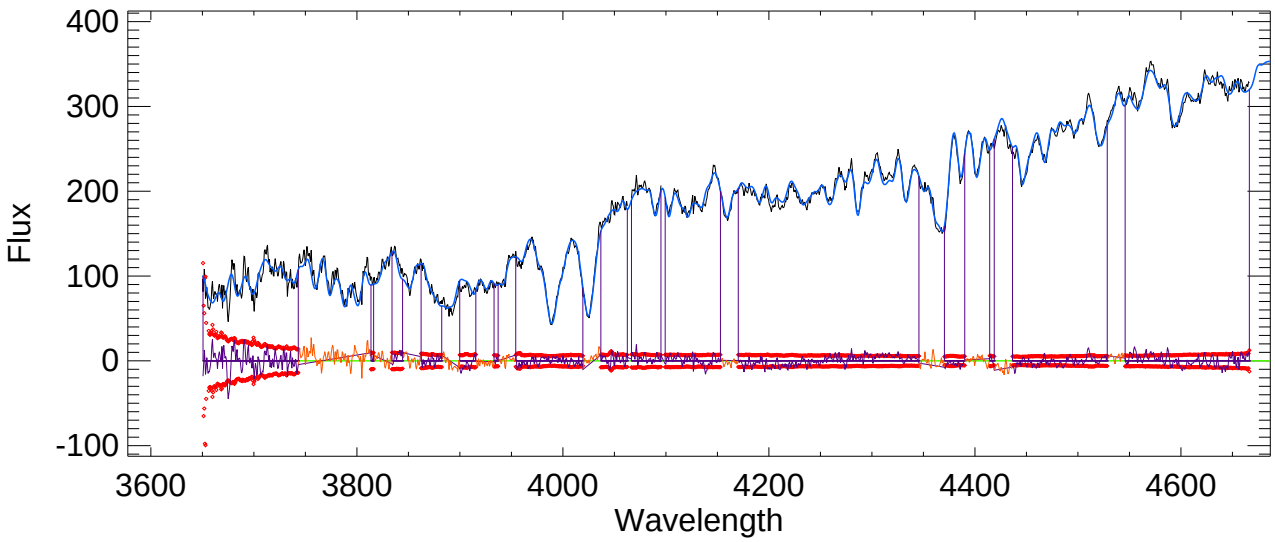

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

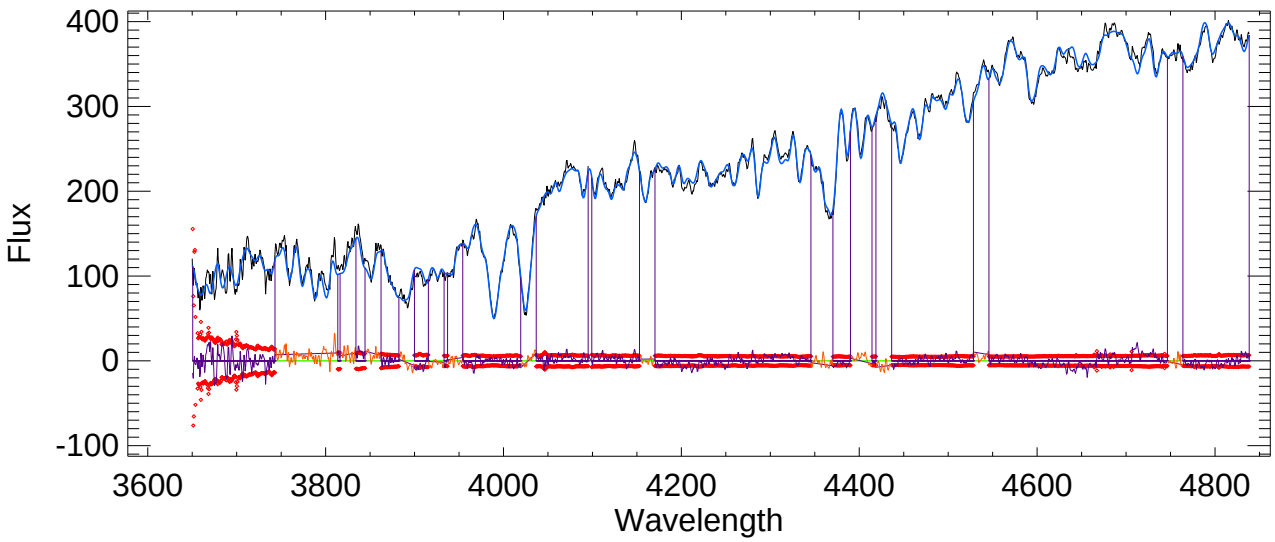

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

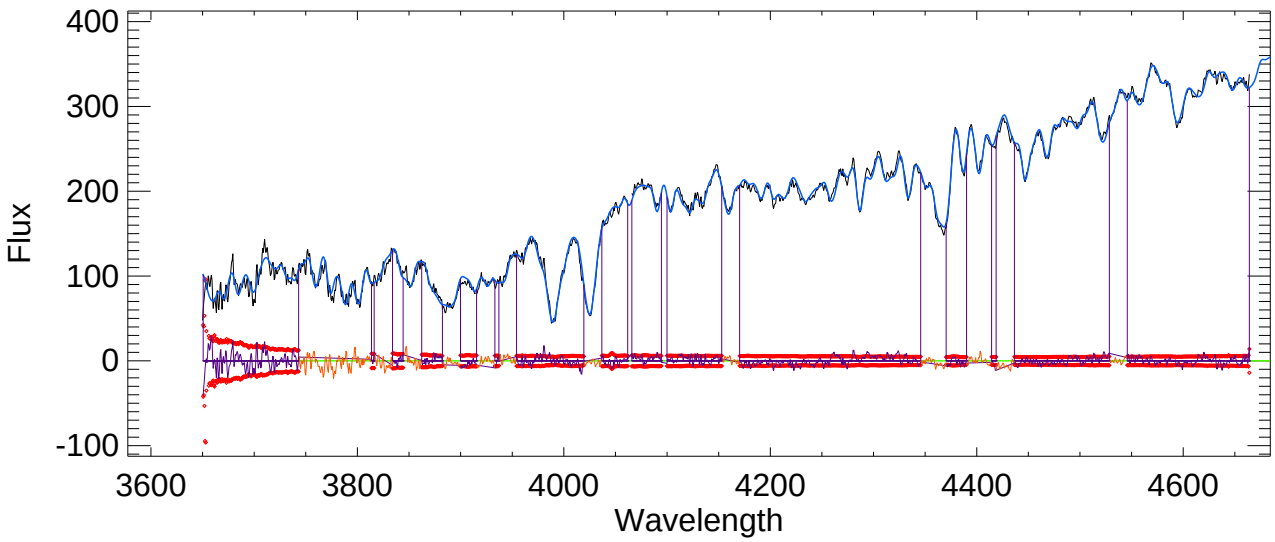

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

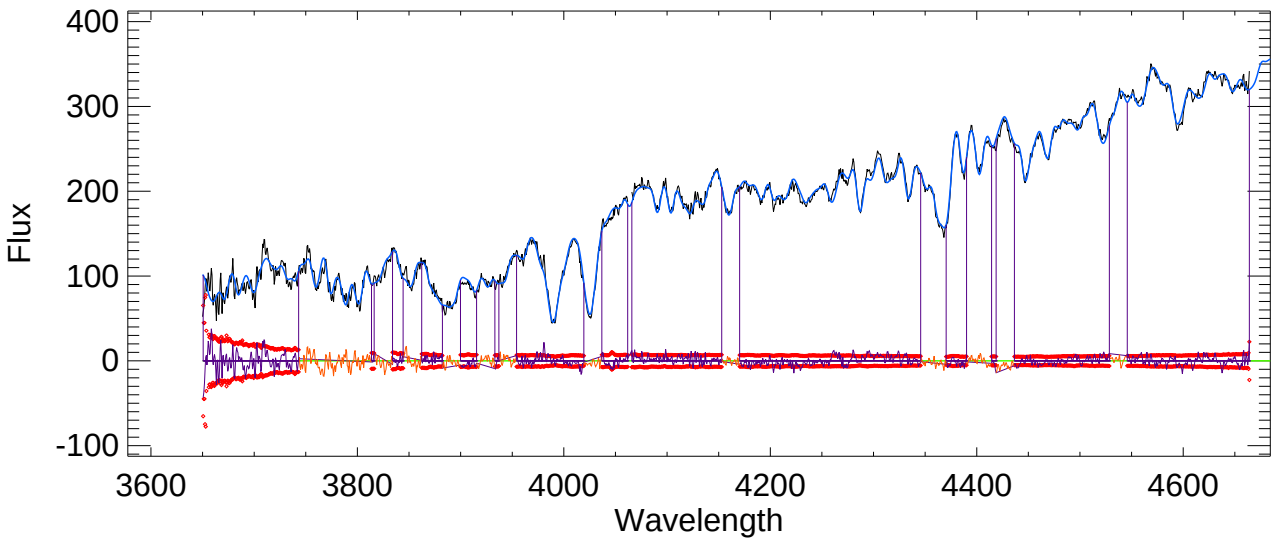

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

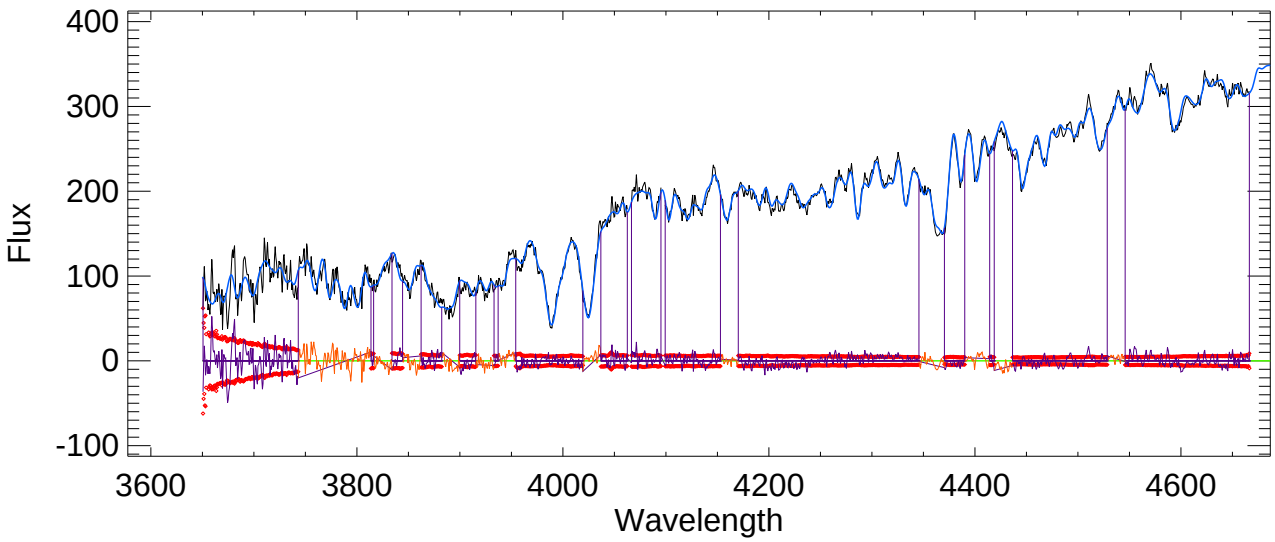

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

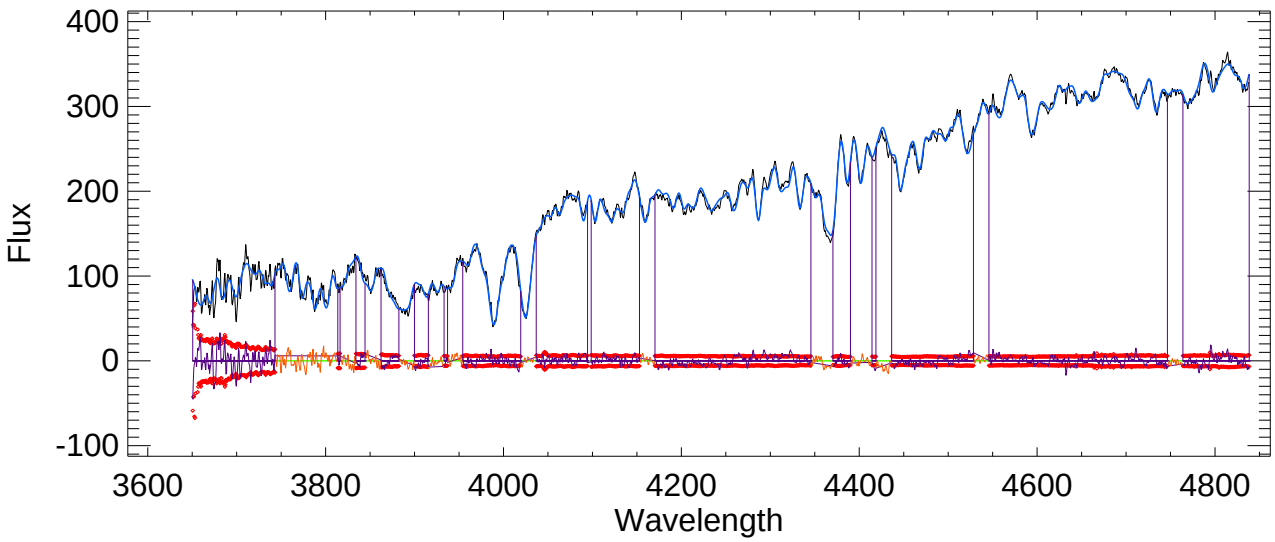

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

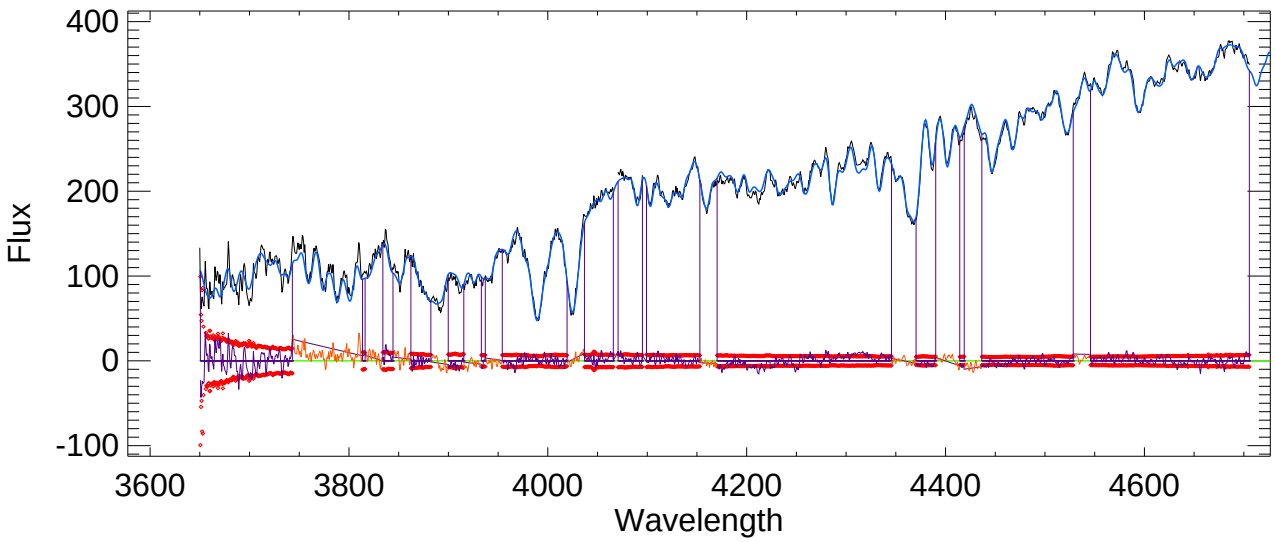

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

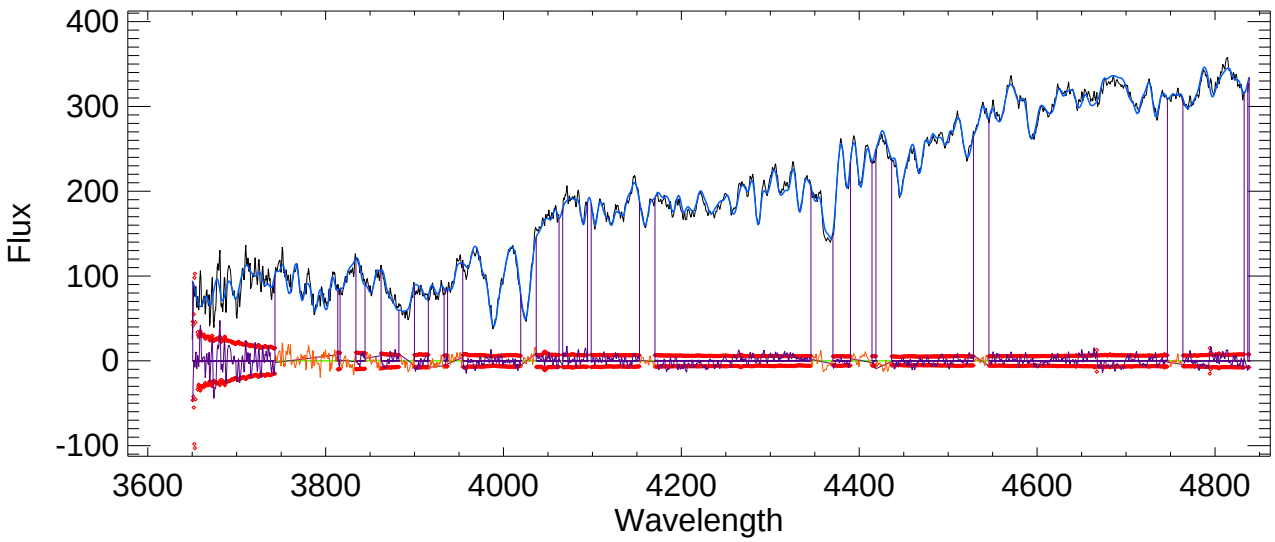

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

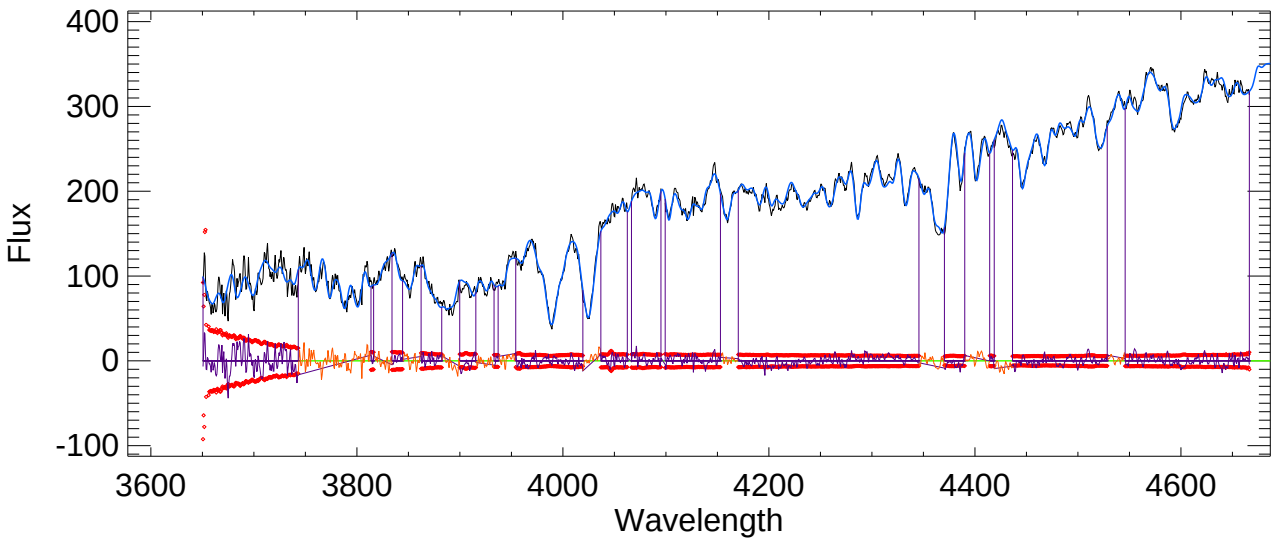

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

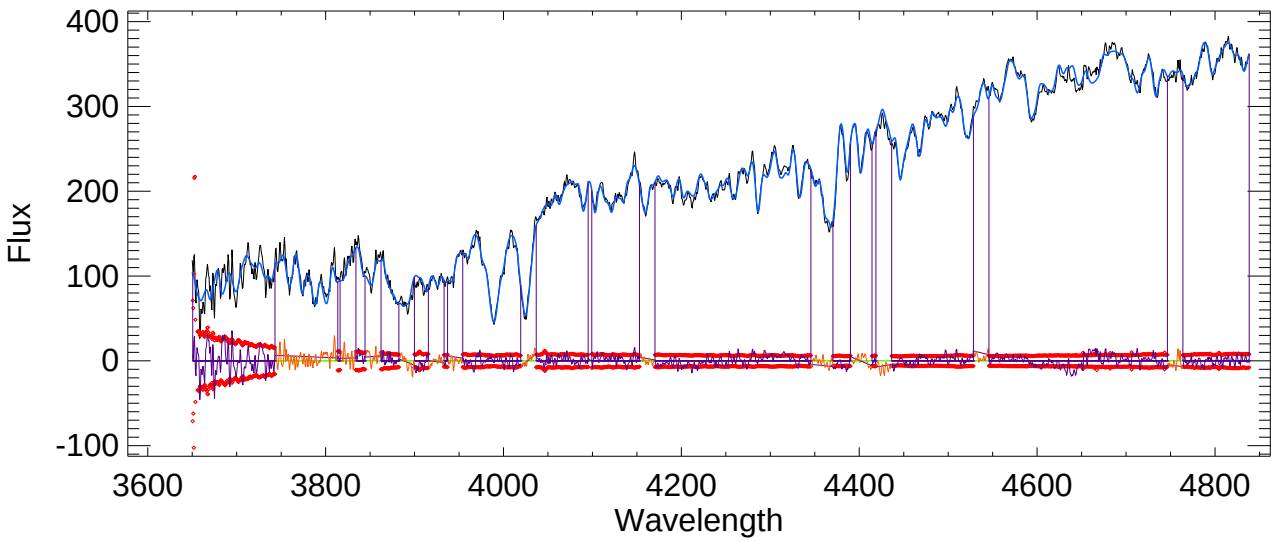

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

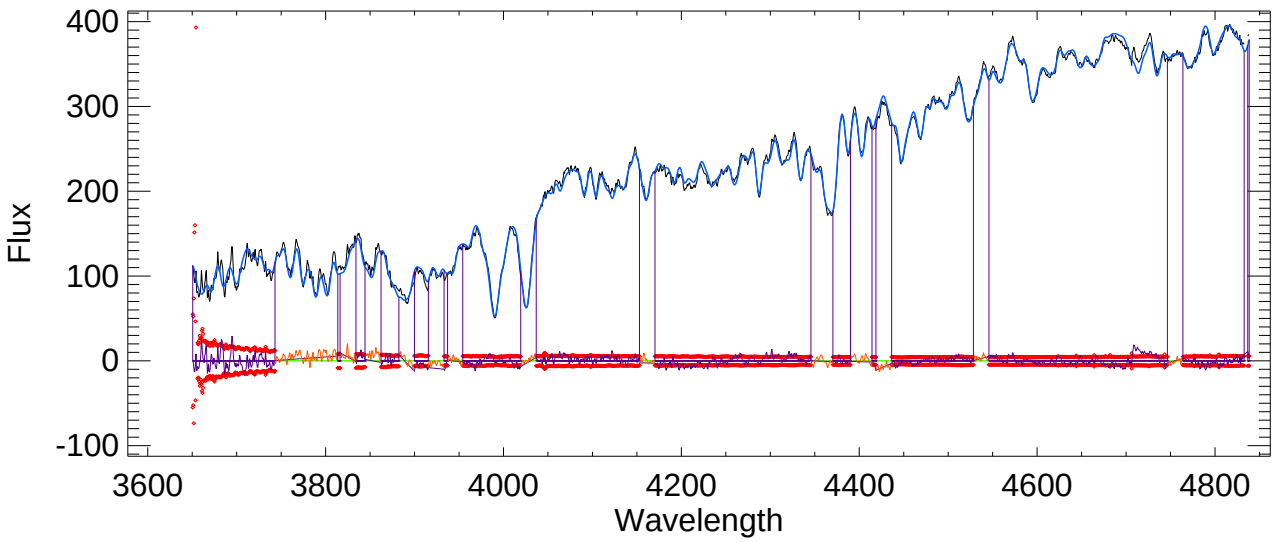

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

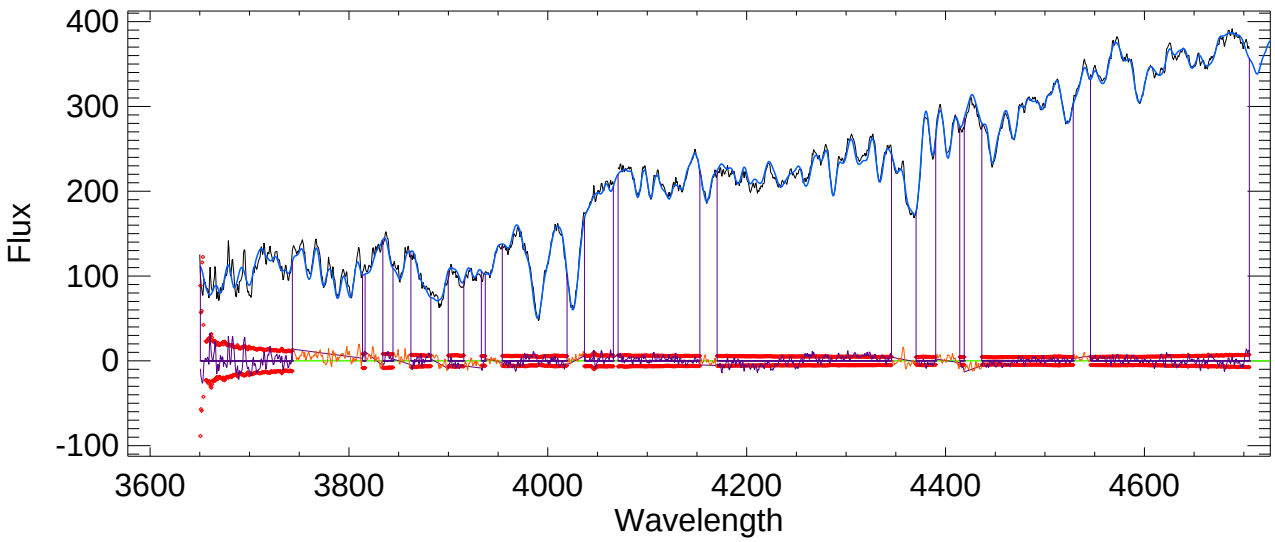

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

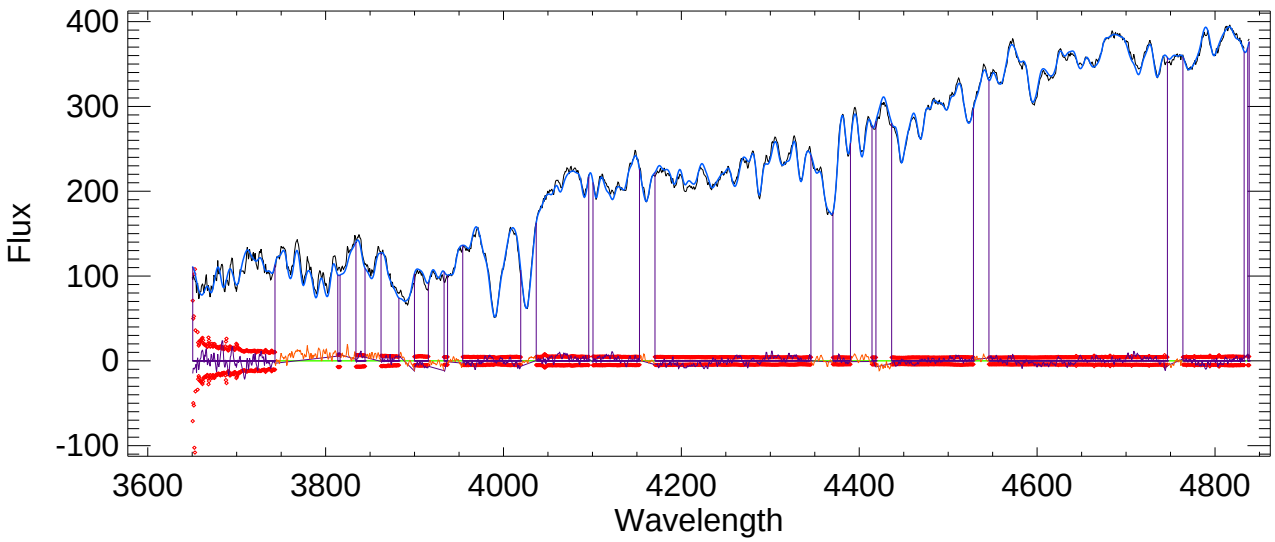

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

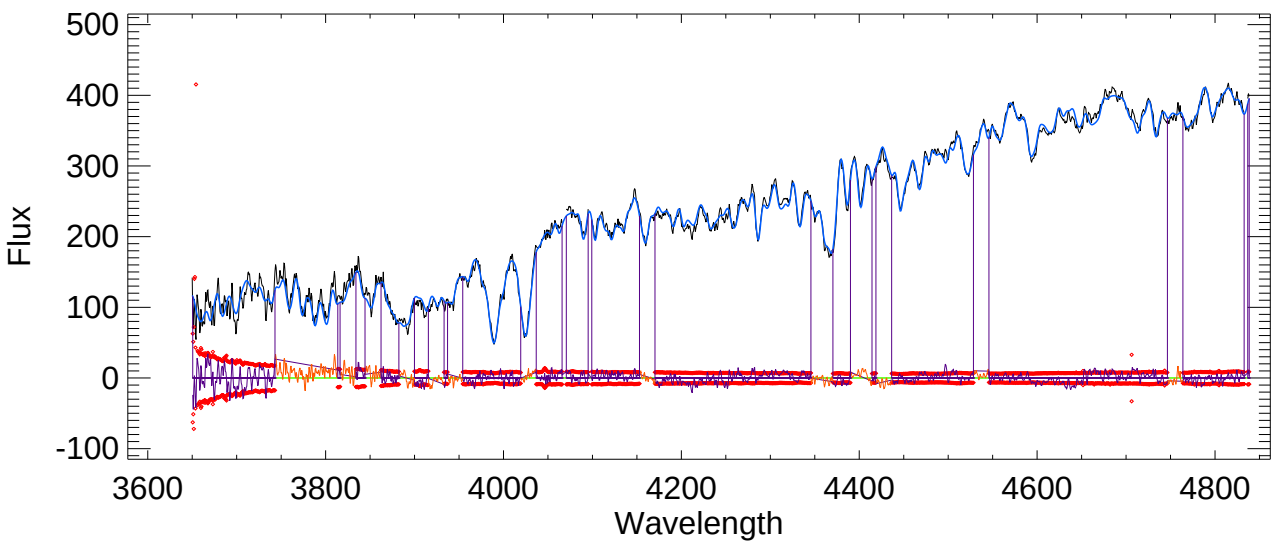

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

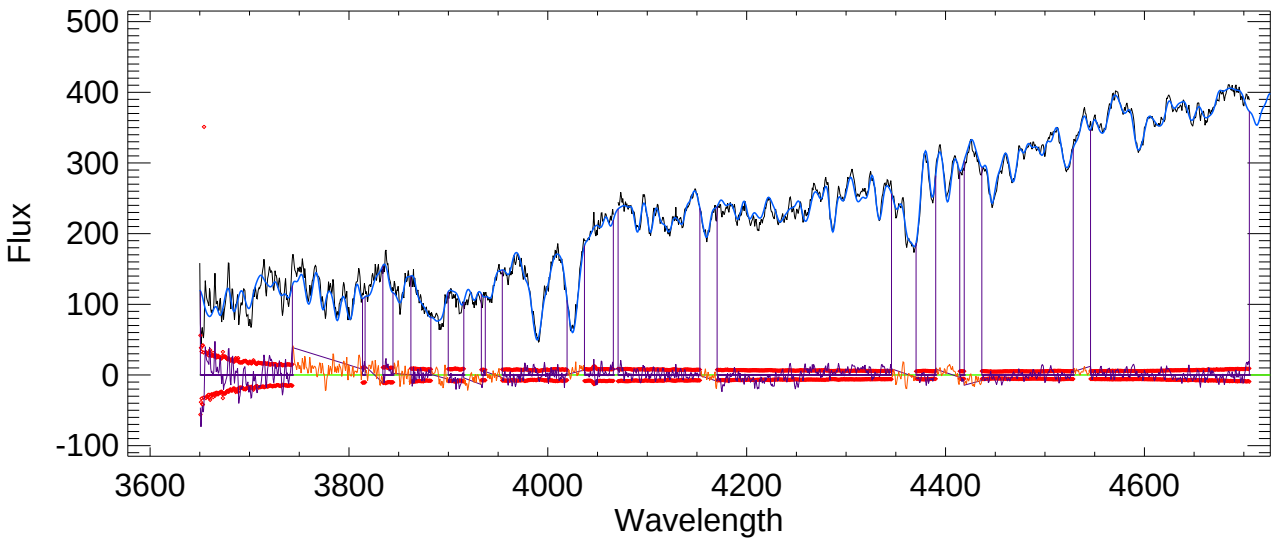

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

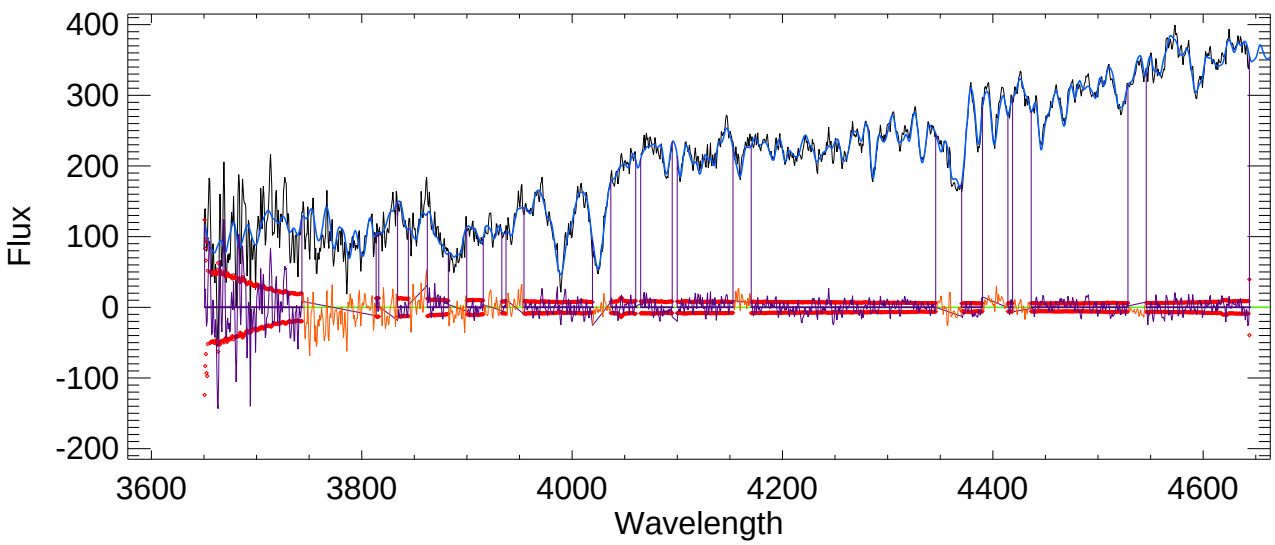

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

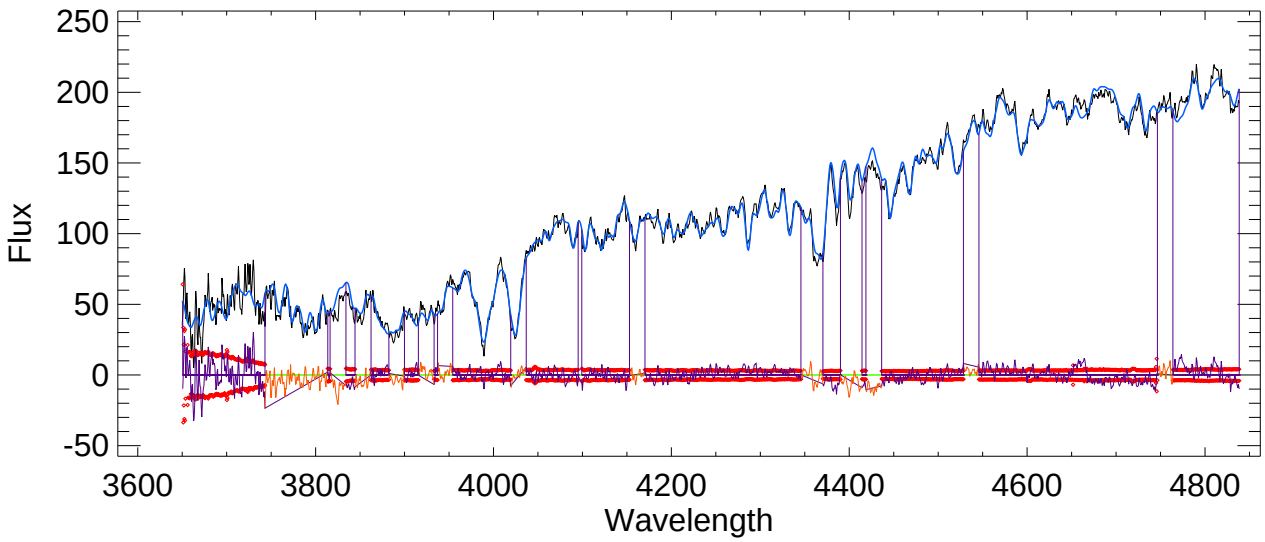

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

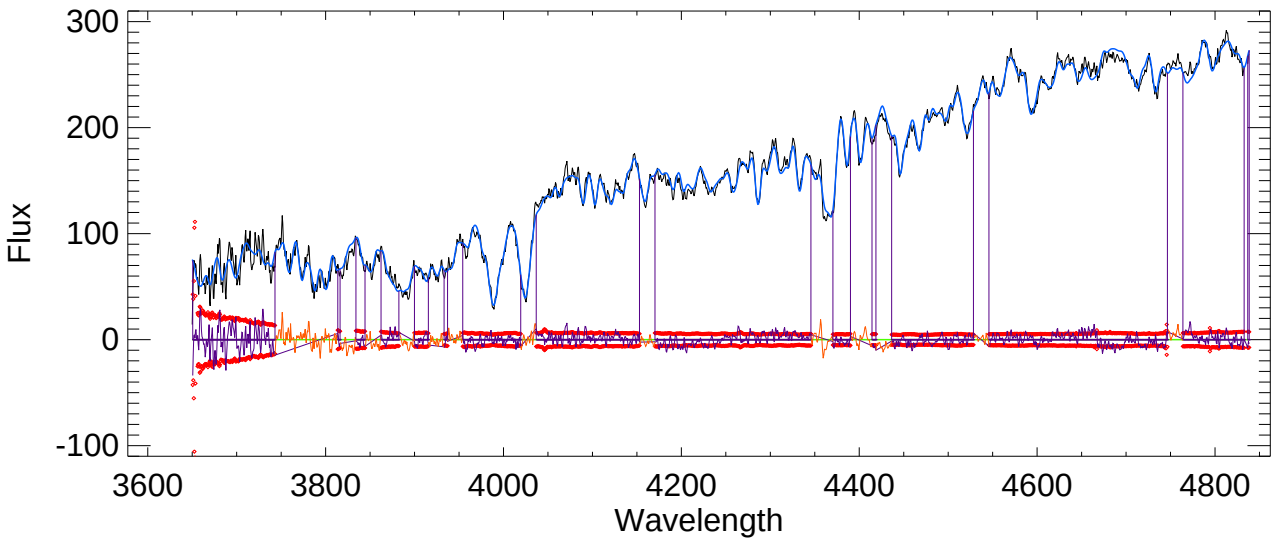

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

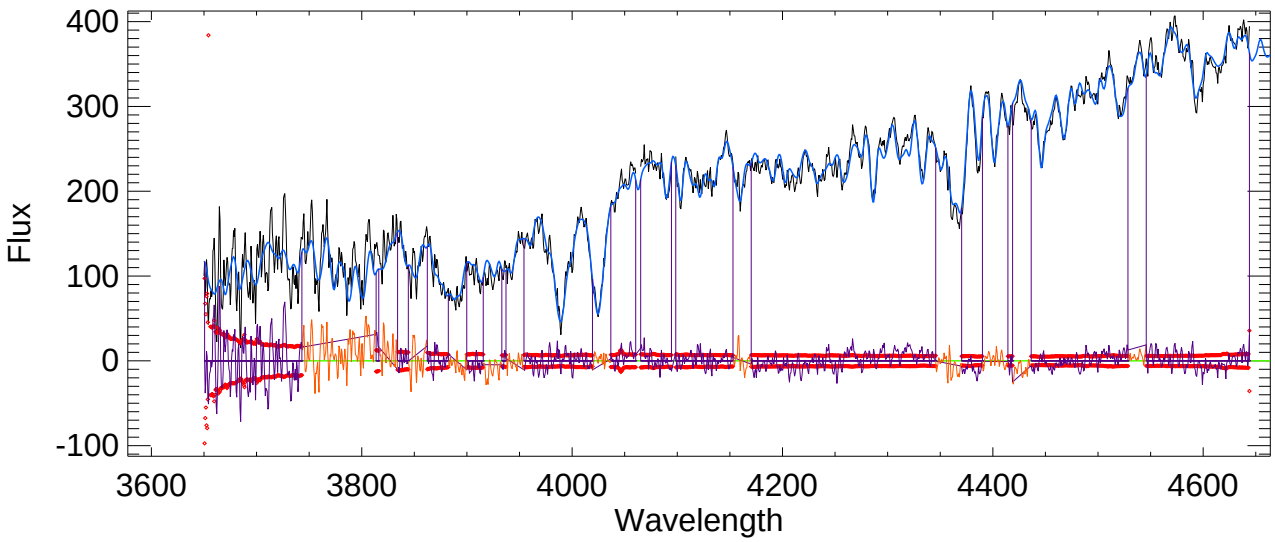

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

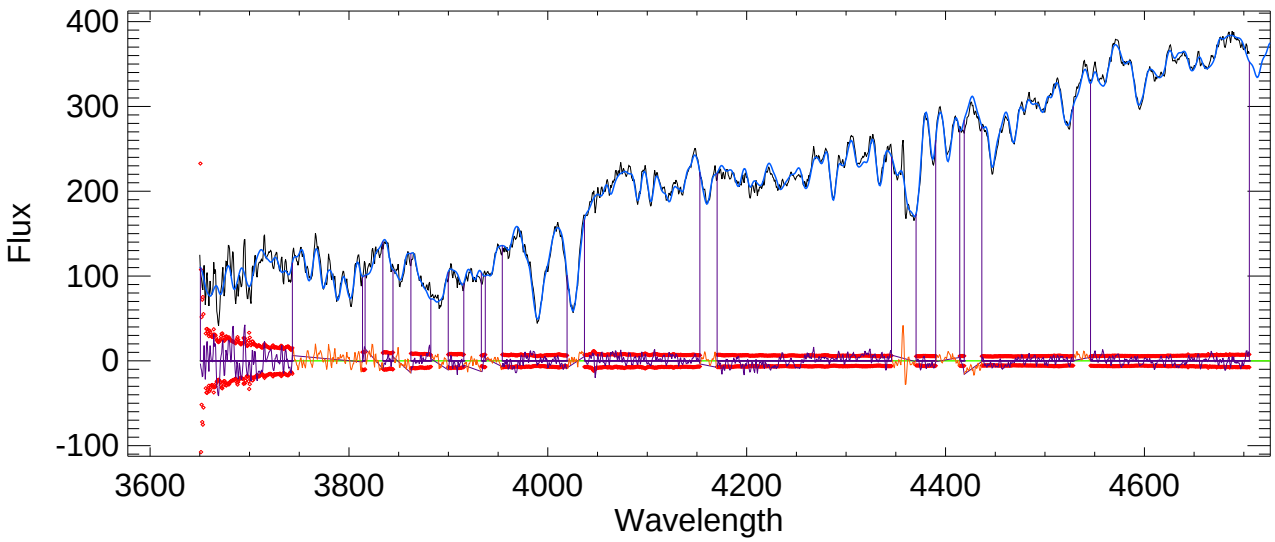

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

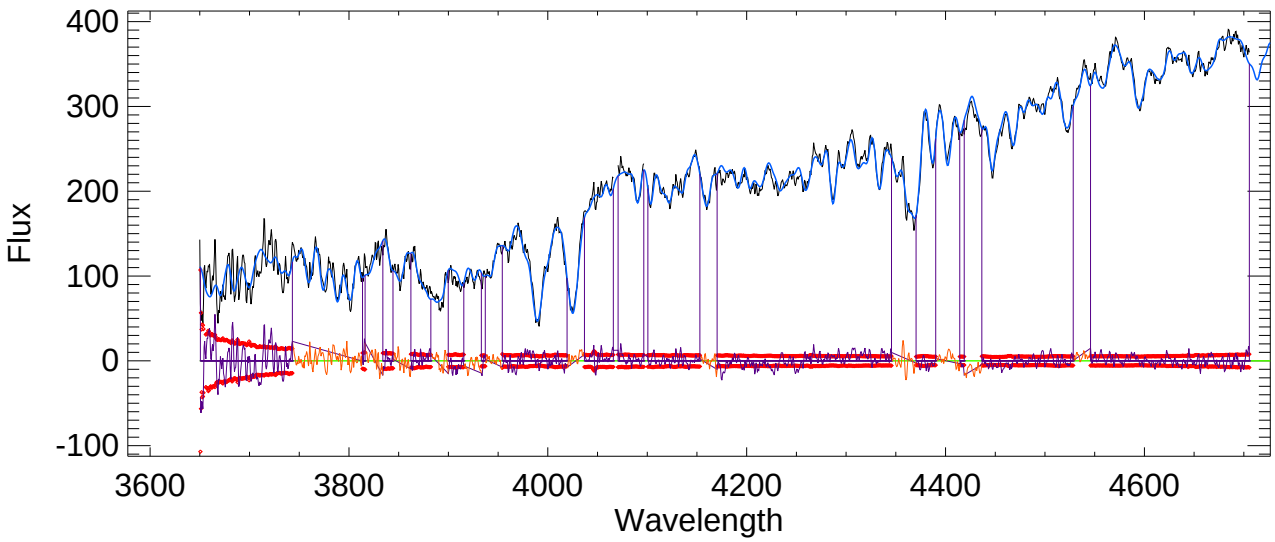

400
300
200
100
0
-100
-200
Flux
3600
3800
4000
4200
4400
4600
Wavelength

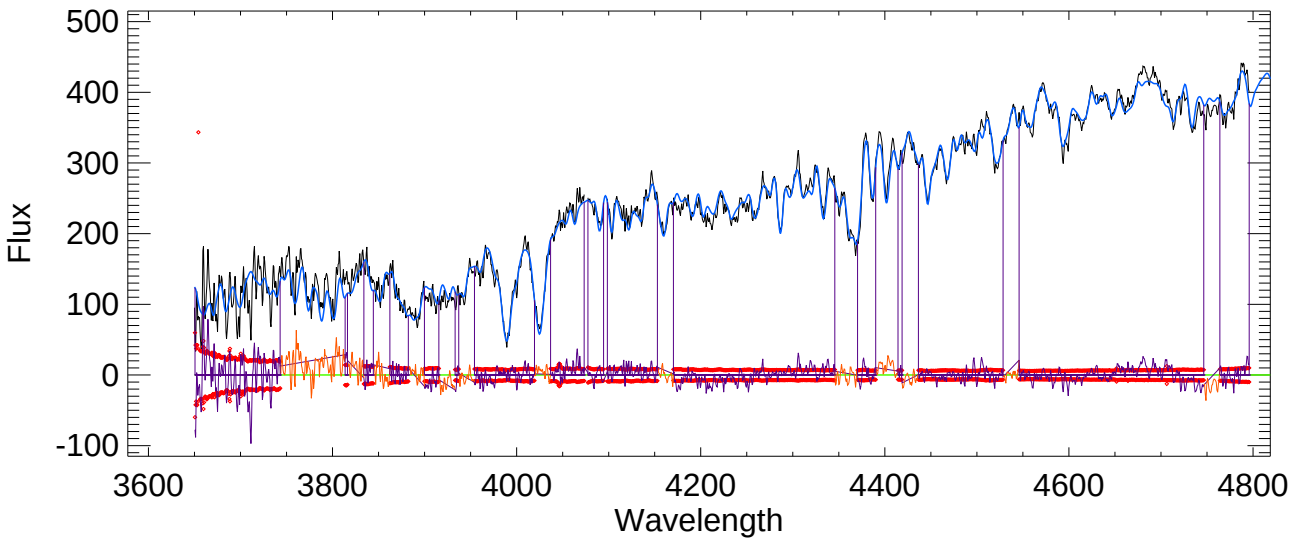

250
200
150
100
50
0
-50
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

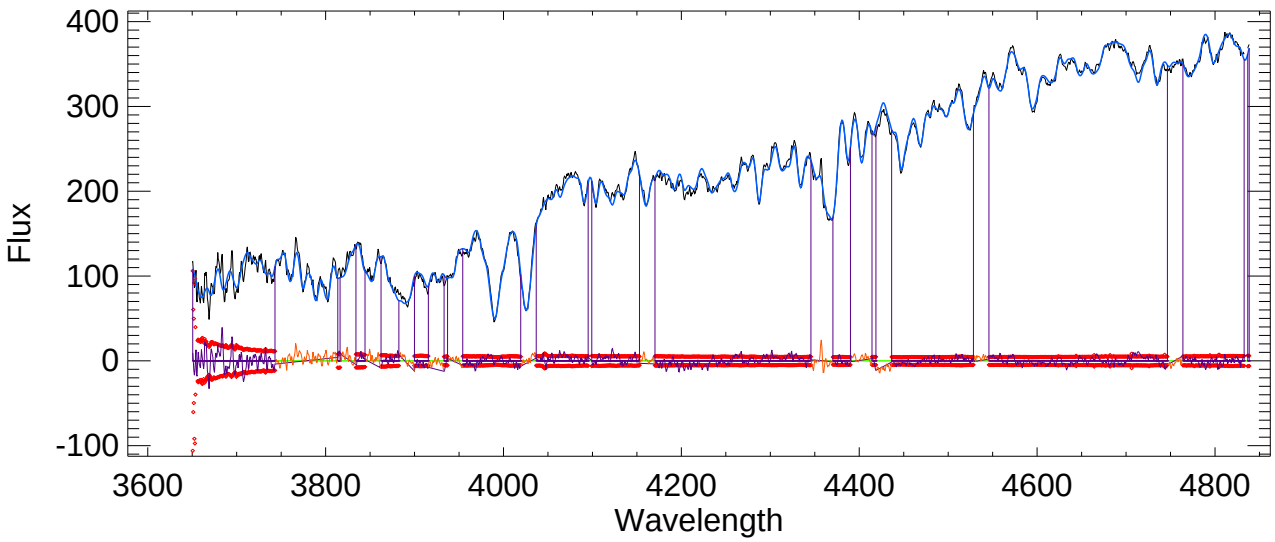

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

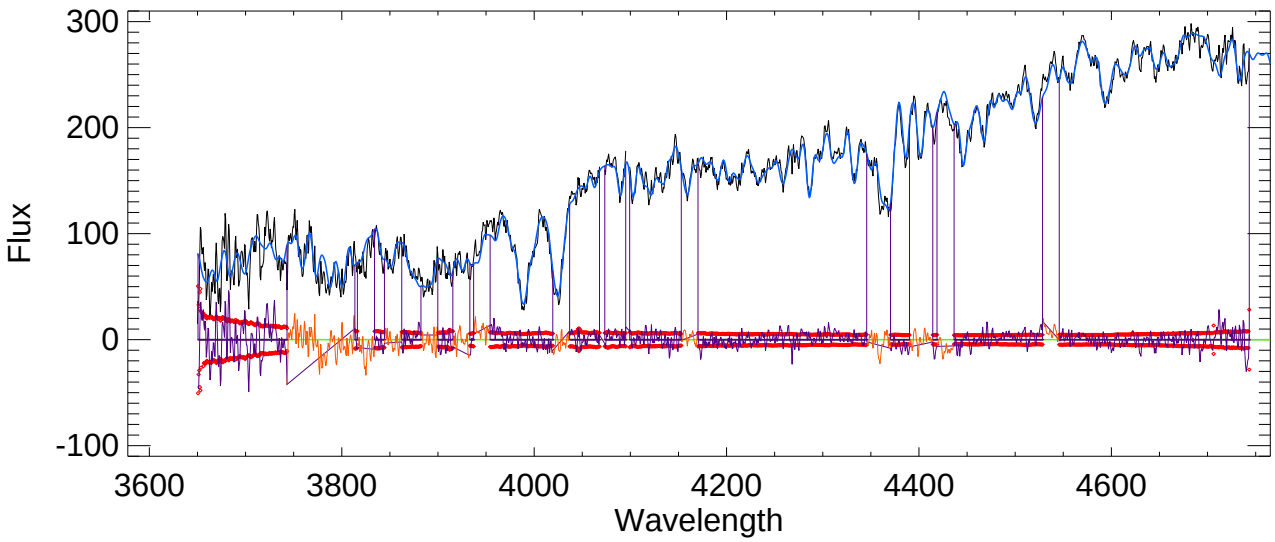

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

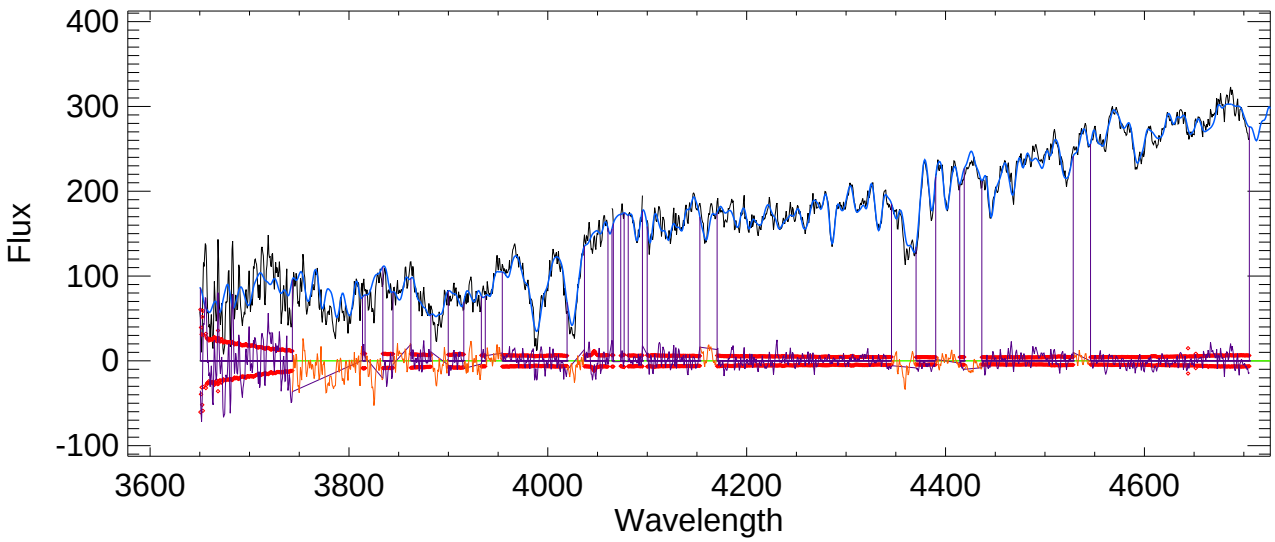

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

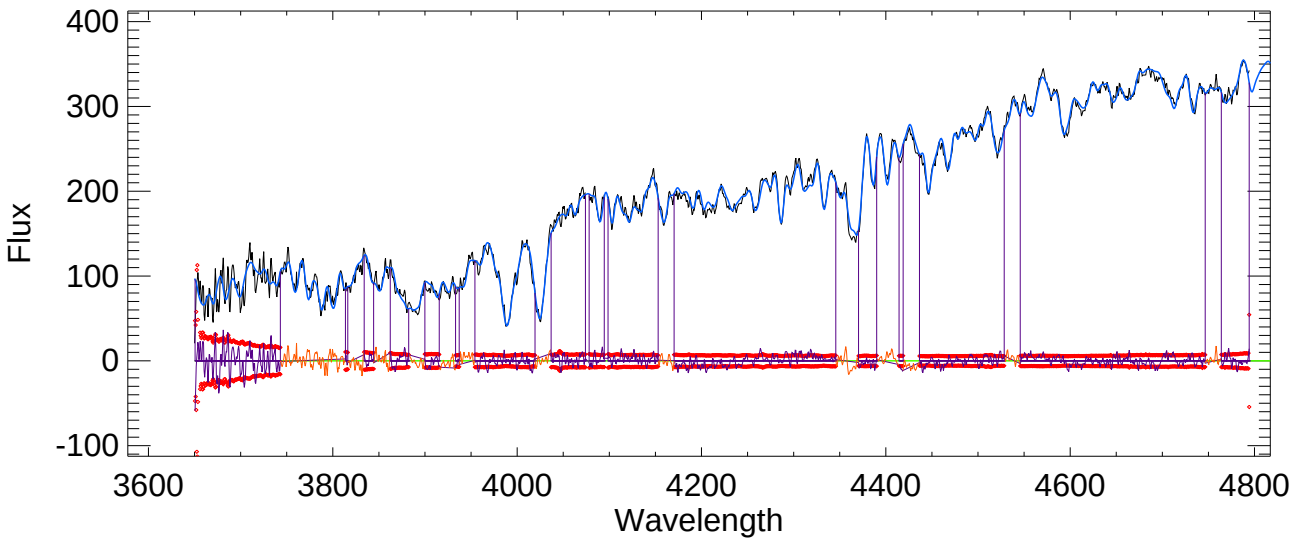

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

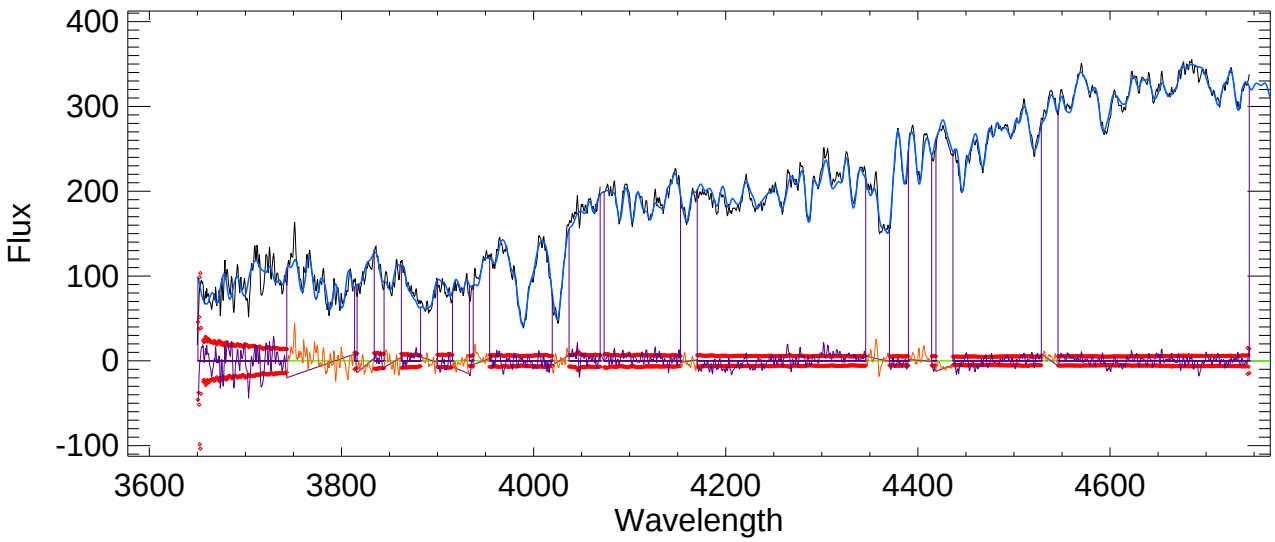

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

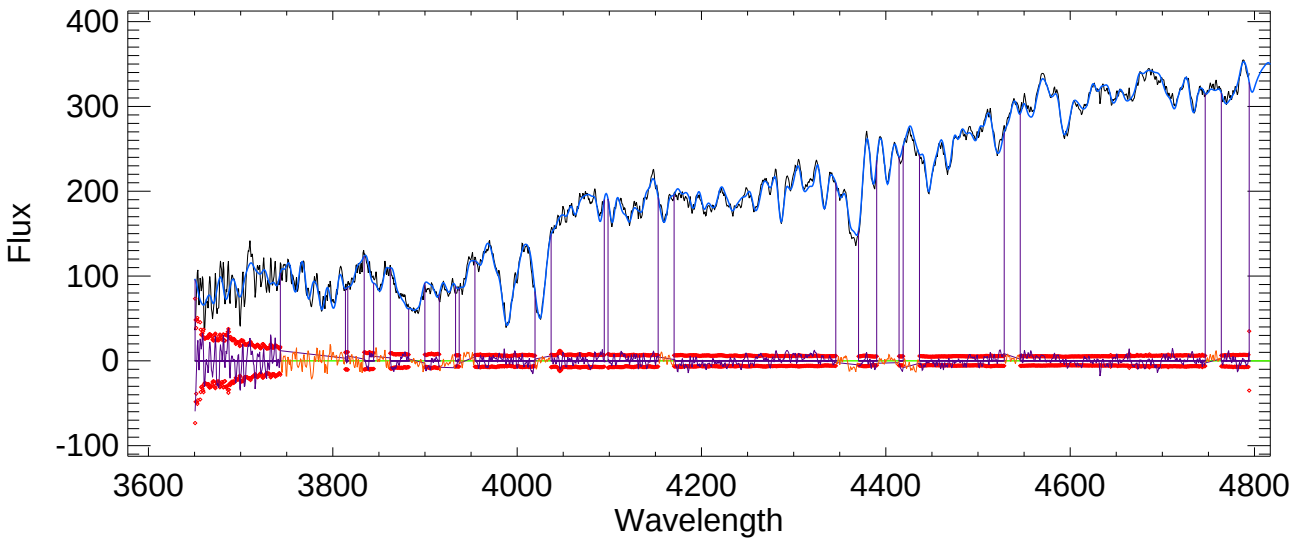

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

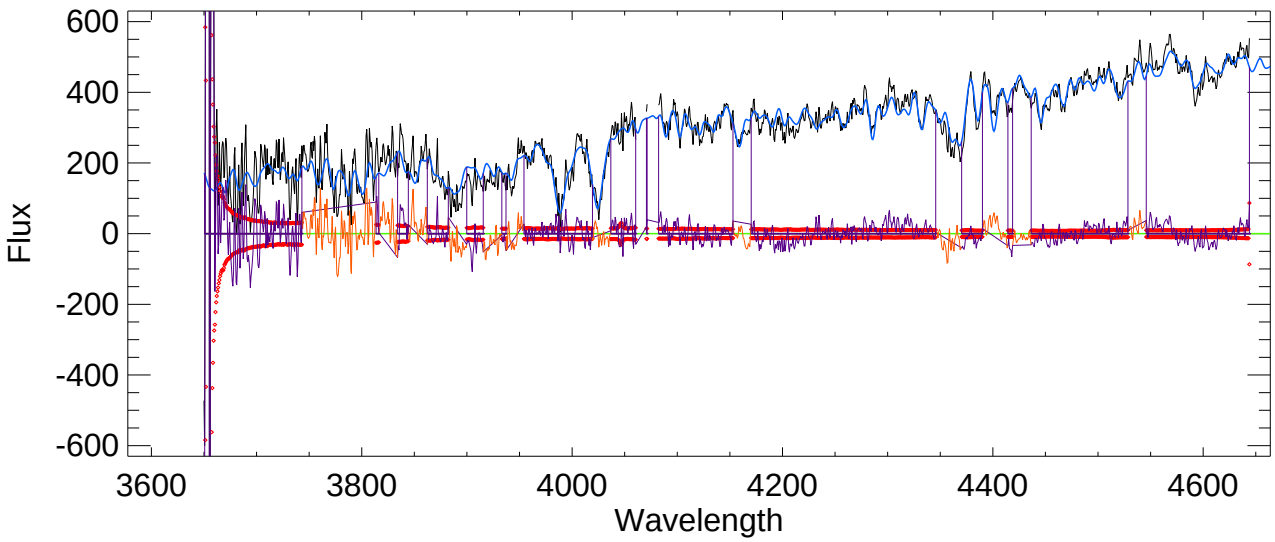

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

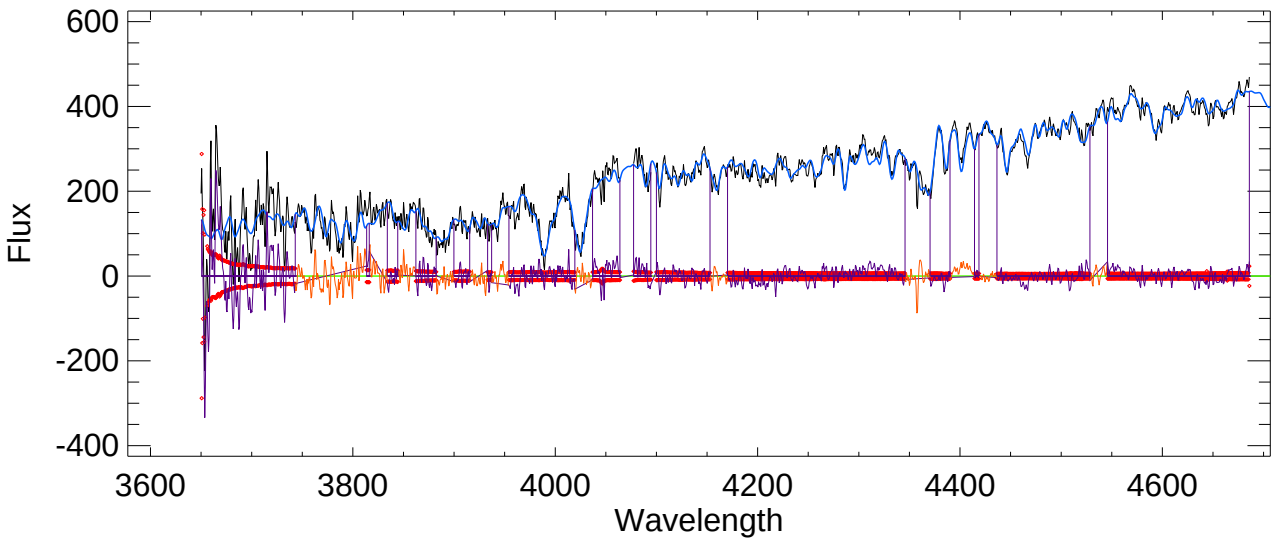

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

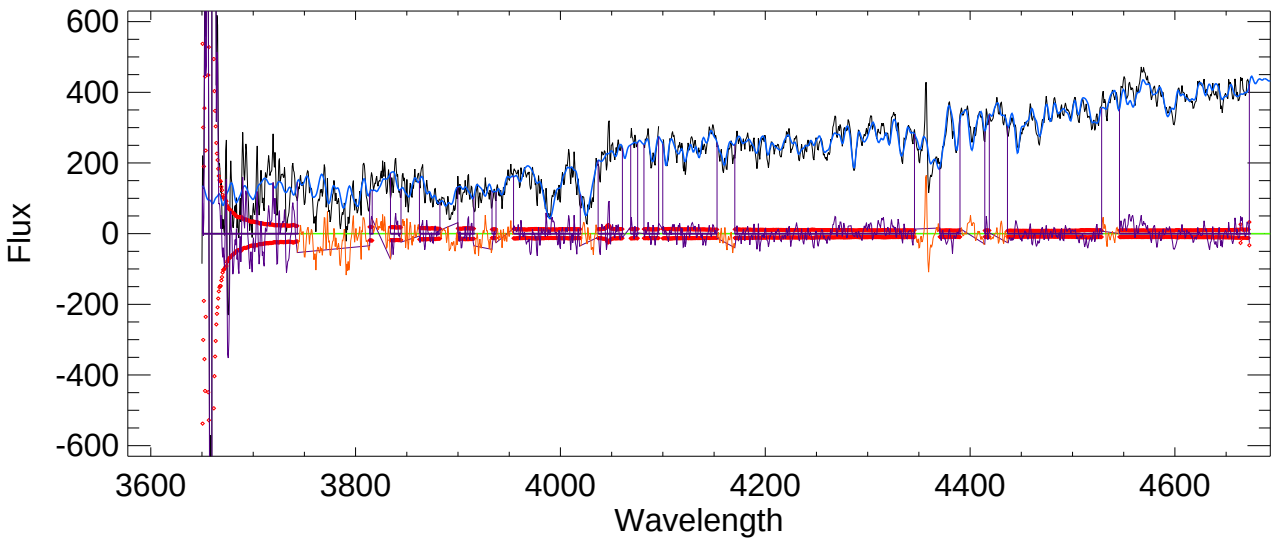

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

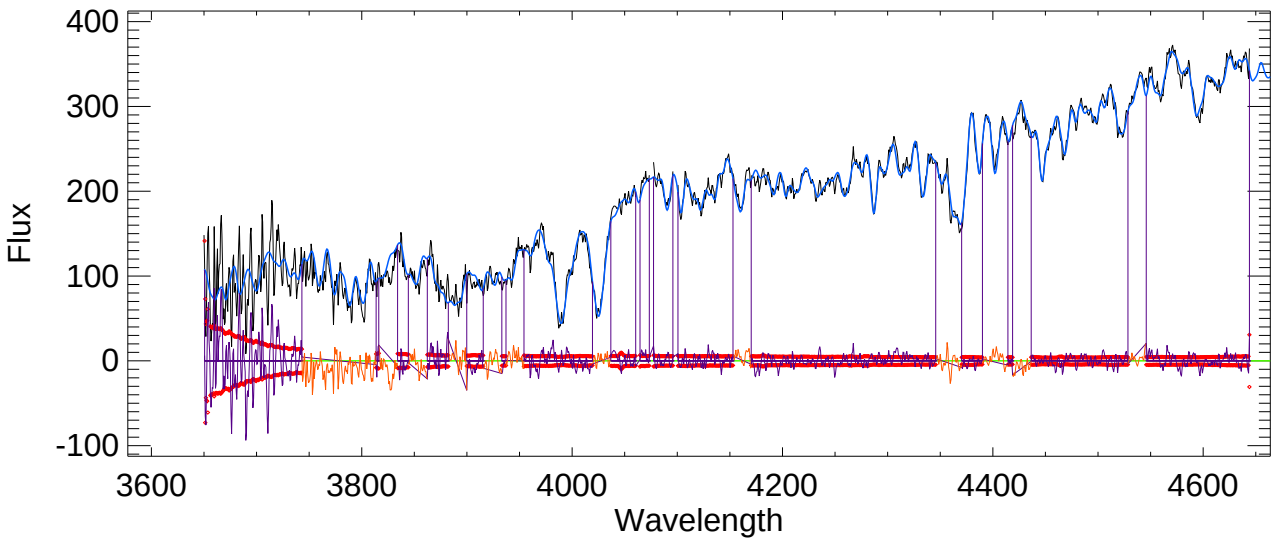

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

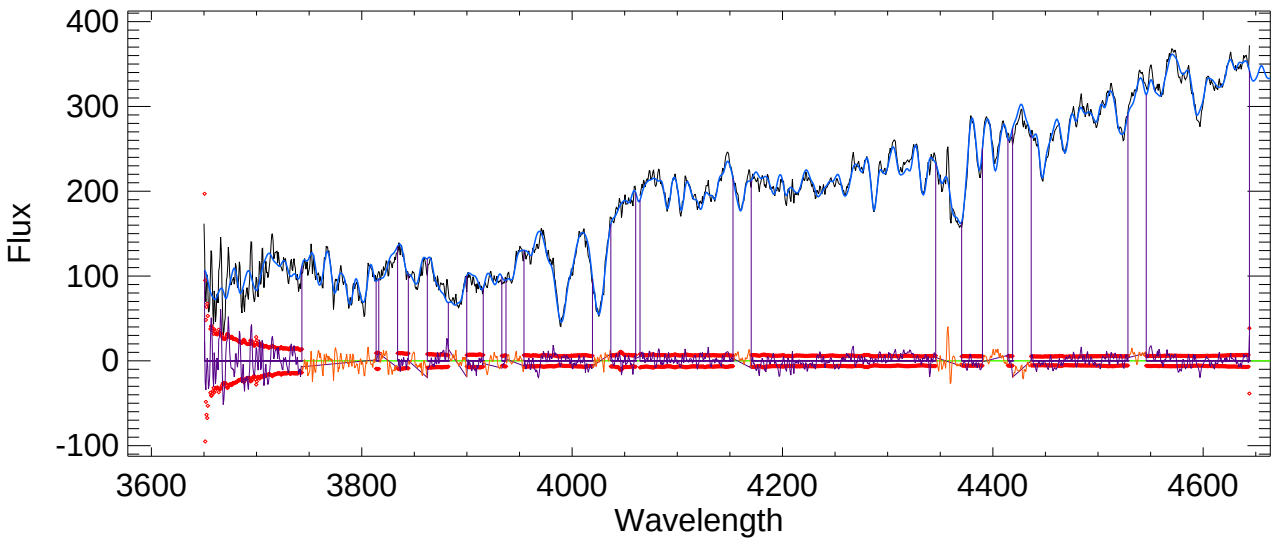

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

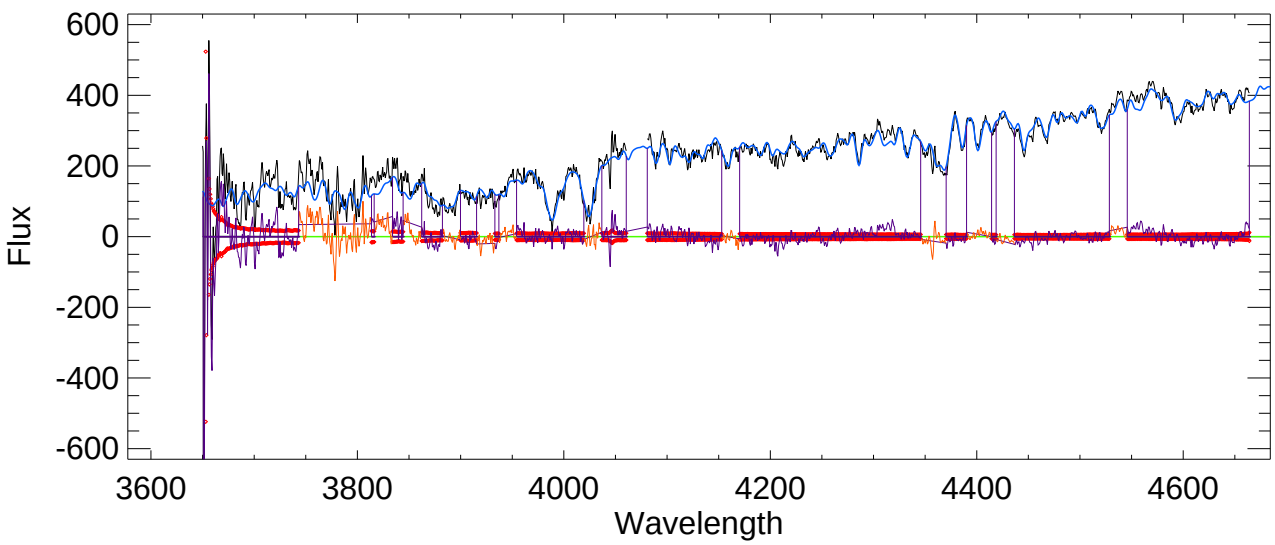

600
400
200
0
-200
-400
-600
Flux
3600
3800
4000
4200
4400
4600
Wavelength

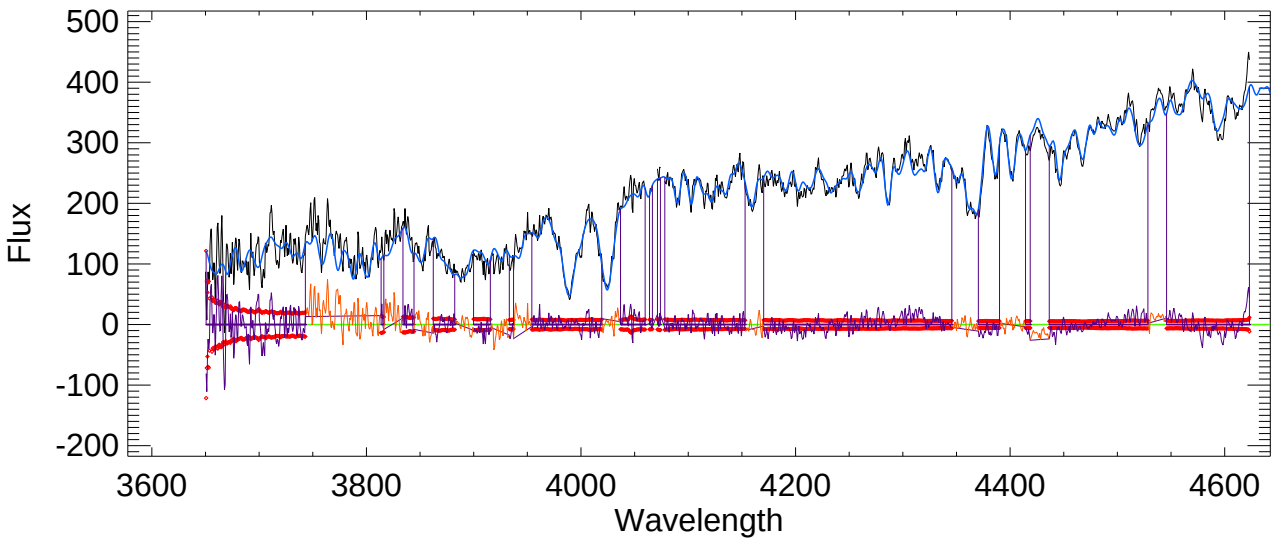

600
400
200
0
-200
-400
Flux
3600
3800
4000
4200
4400
4600
Wavelength

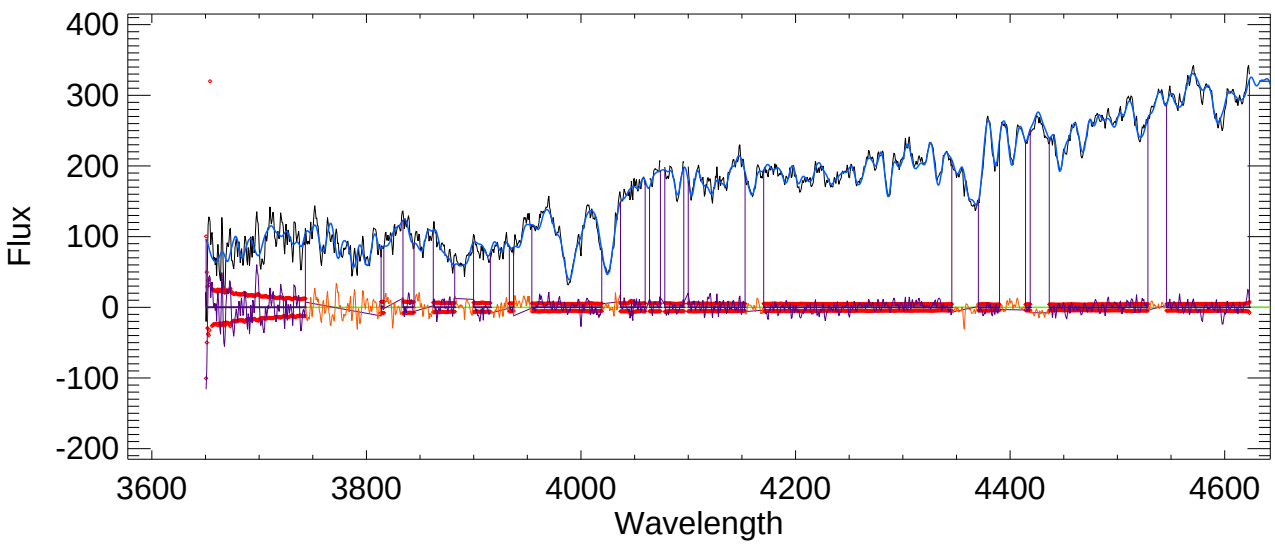

600
400
200
0
-200
-400
-600
Flux
3600
3800
4000
4200
4400
4600
Wavelength

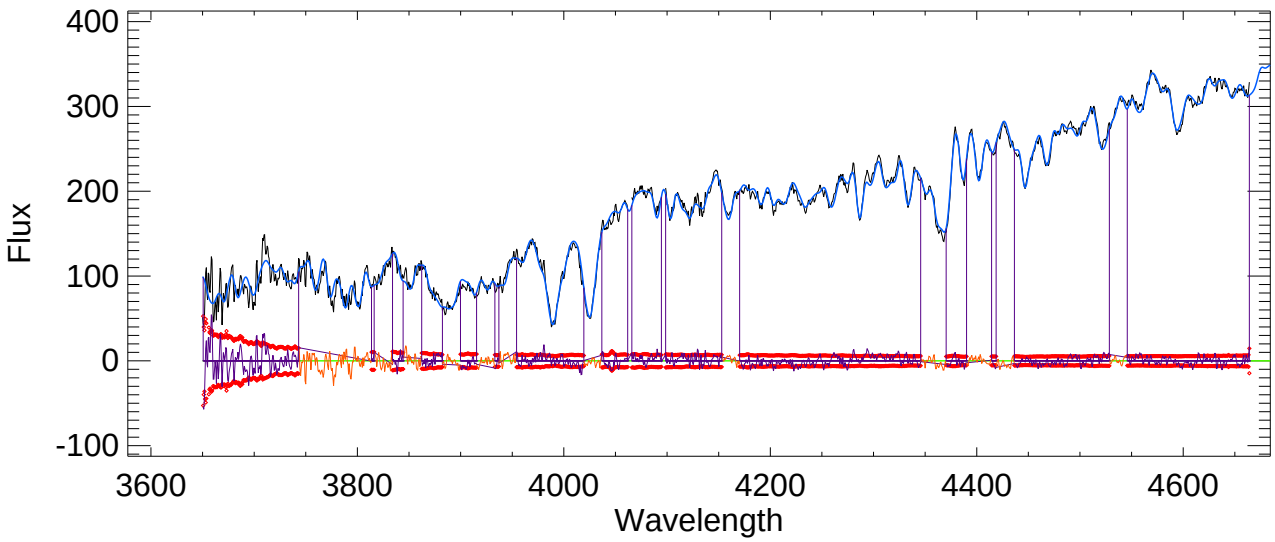

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

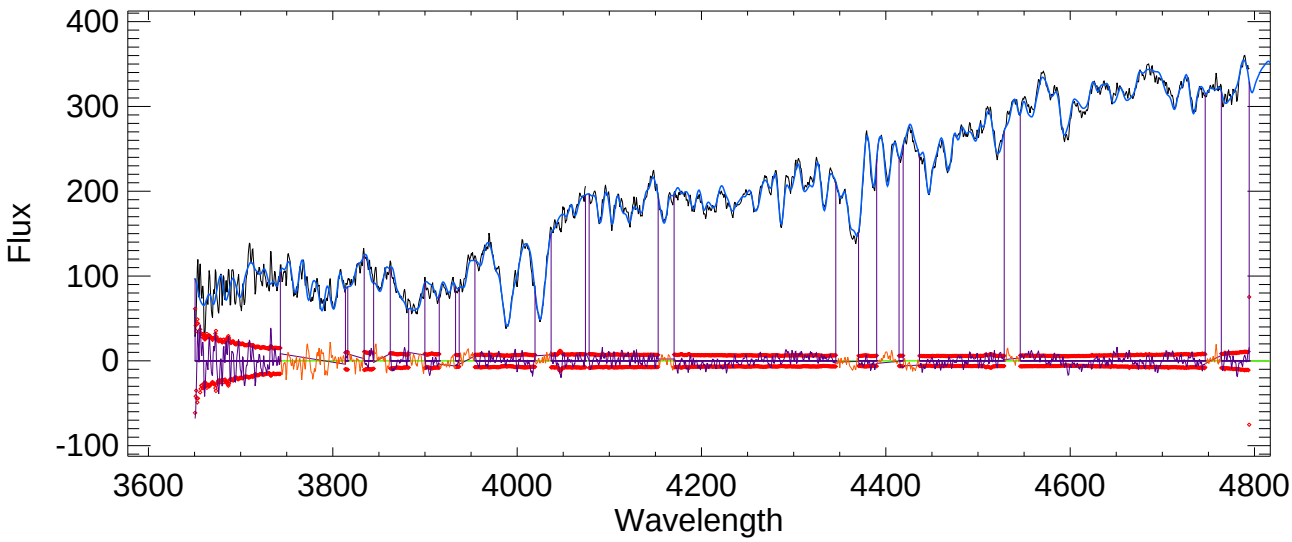

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

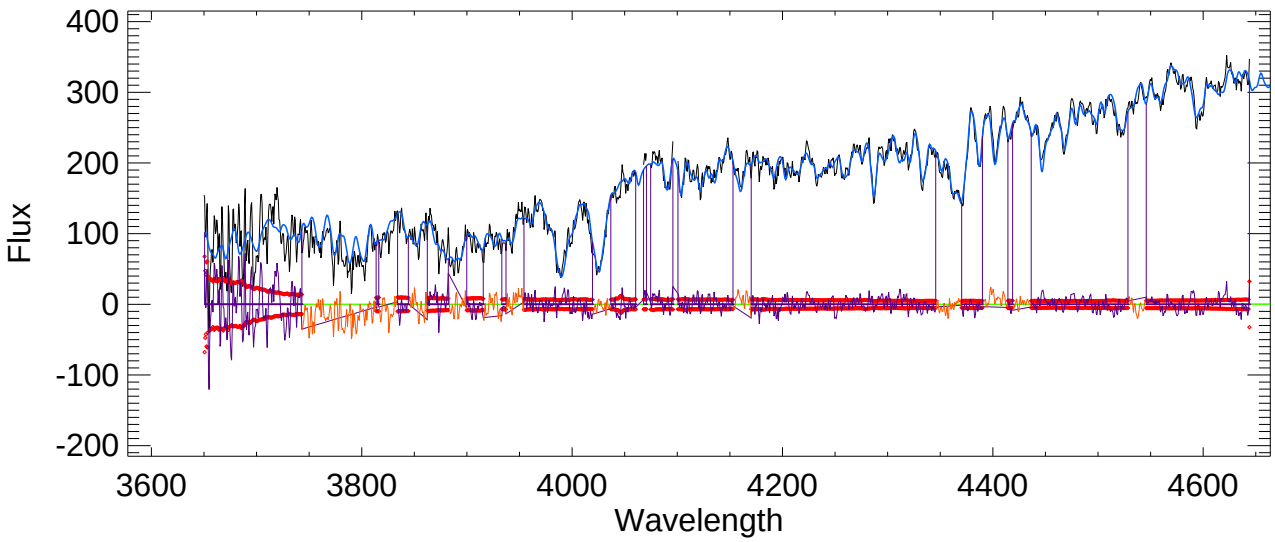

600
400
200
0
-200
-400
-600
Flux
3600
3800
4000
4200
4400
4600
Wavelength

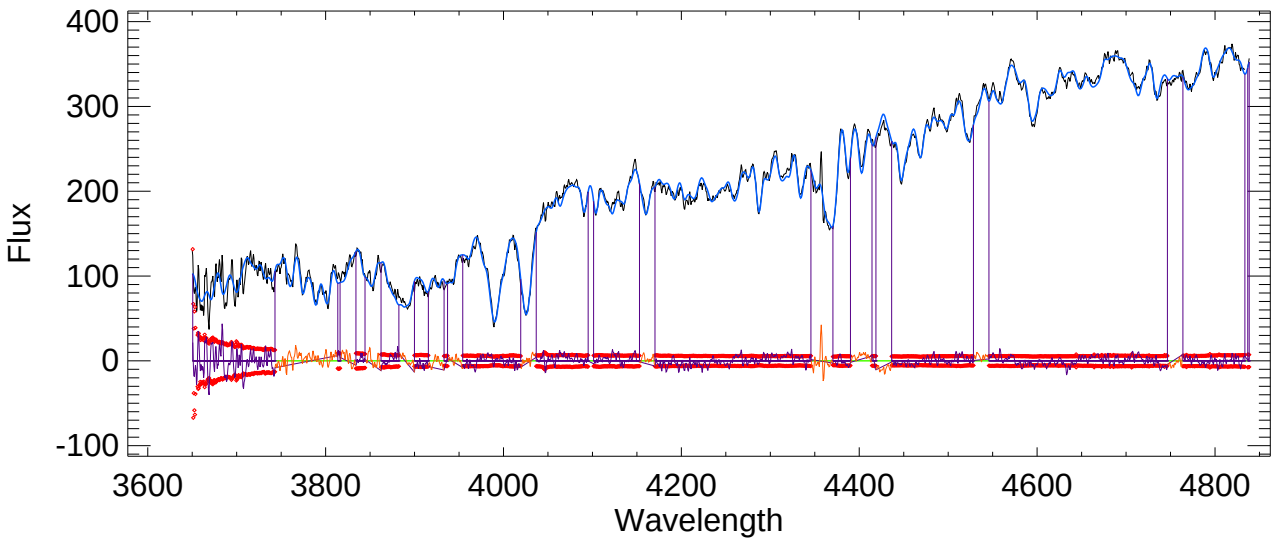

500
400
300
200
100
0
-100
-200
Flux
3600
3800
4000
4200
4400
4600
Wavelength

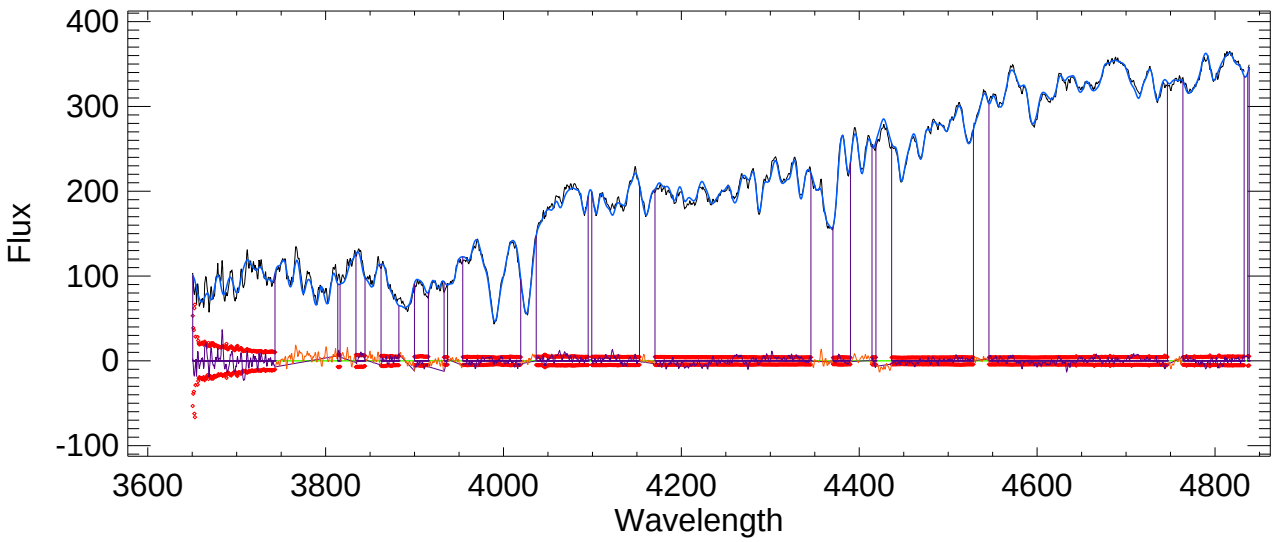

400
300
200
100
0
-100
-200
Flux
3600
3800
4000
4200
4400
4600
Wavelength

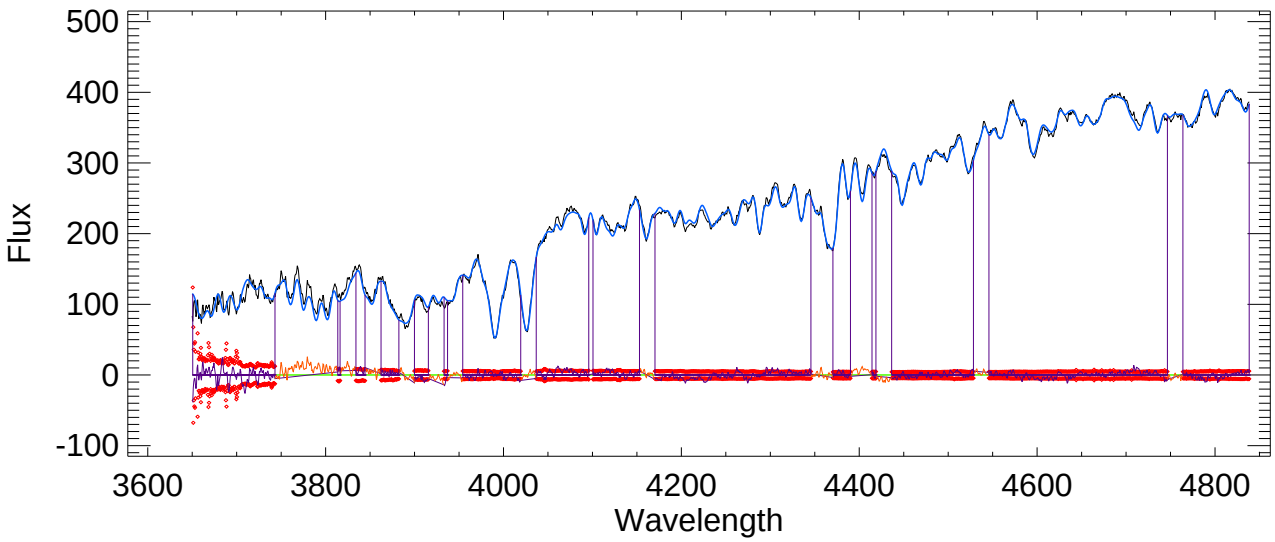

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

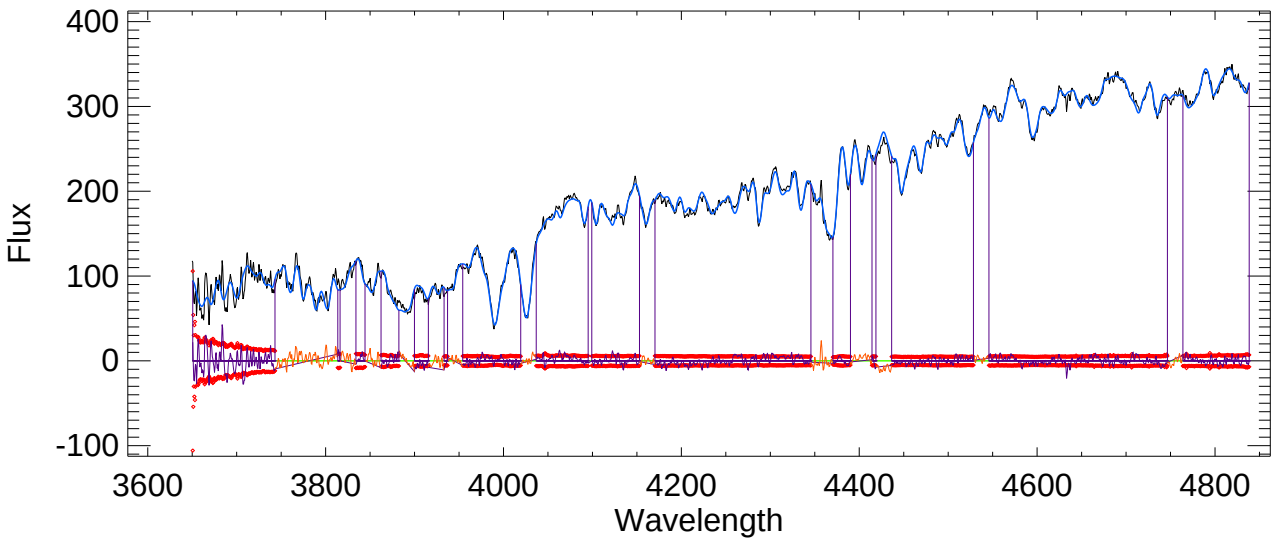

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

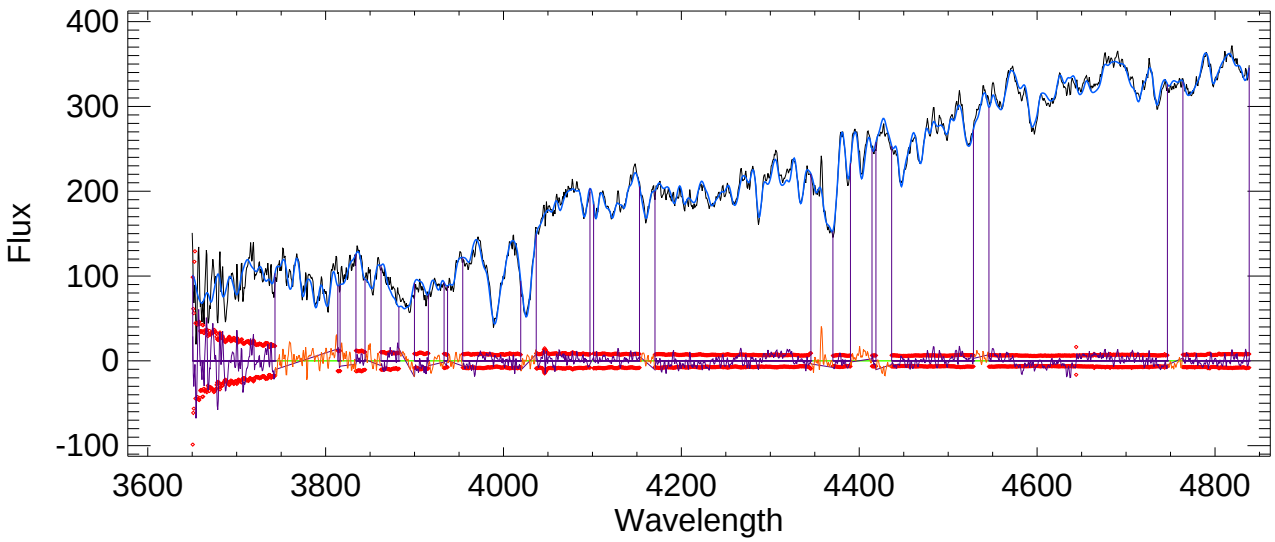

400
300
200
100
0
-100
-200
Flux
3600
3800
4000
4200
4400
4600
Wavelength

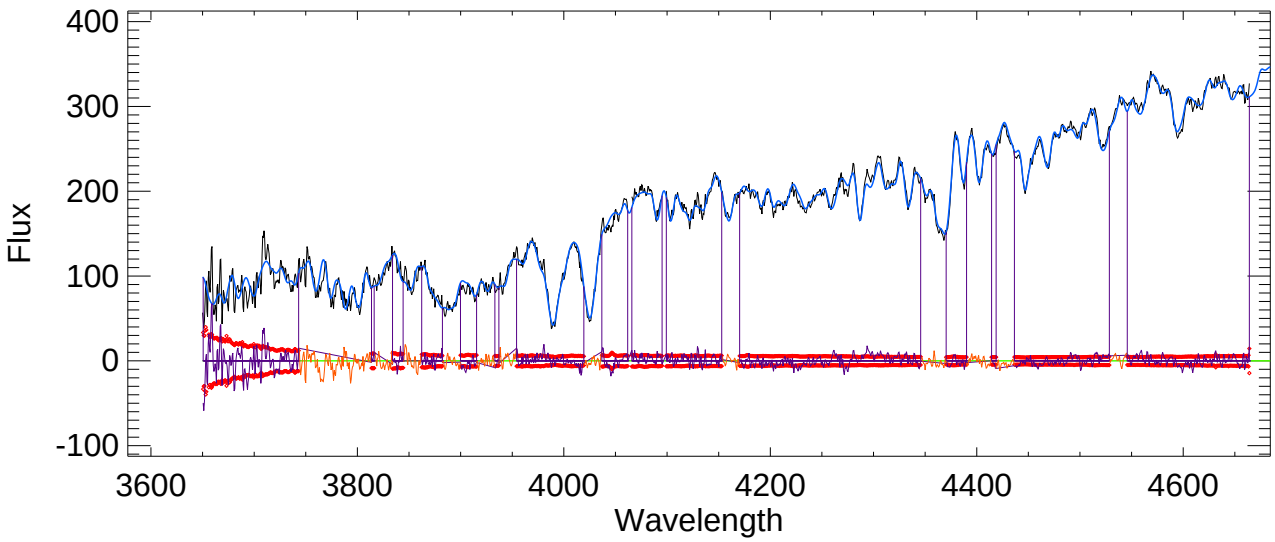

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

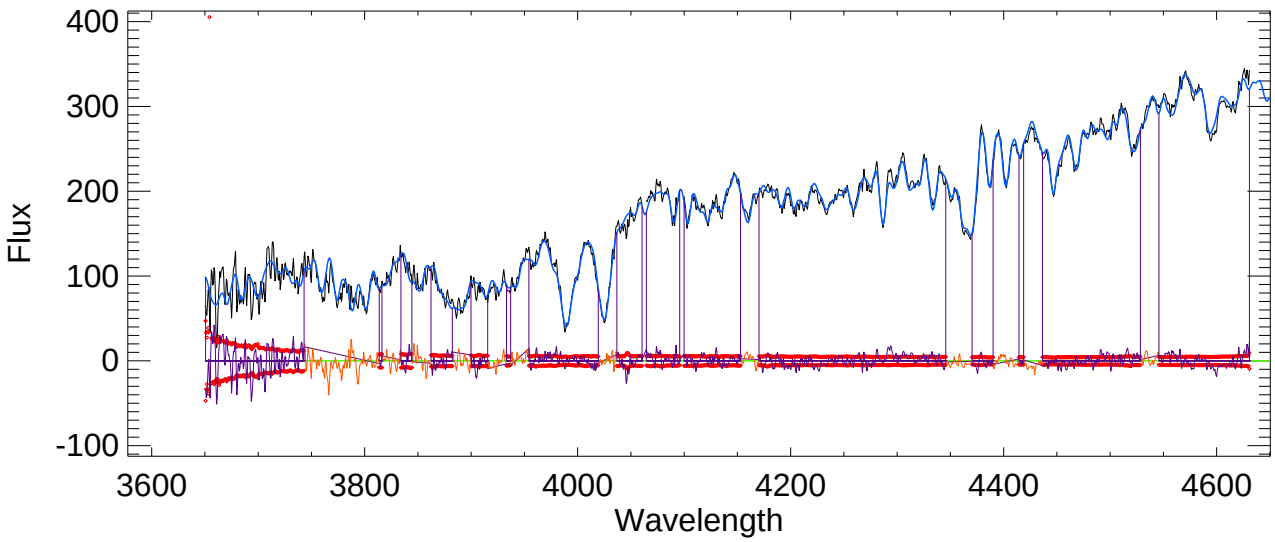

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

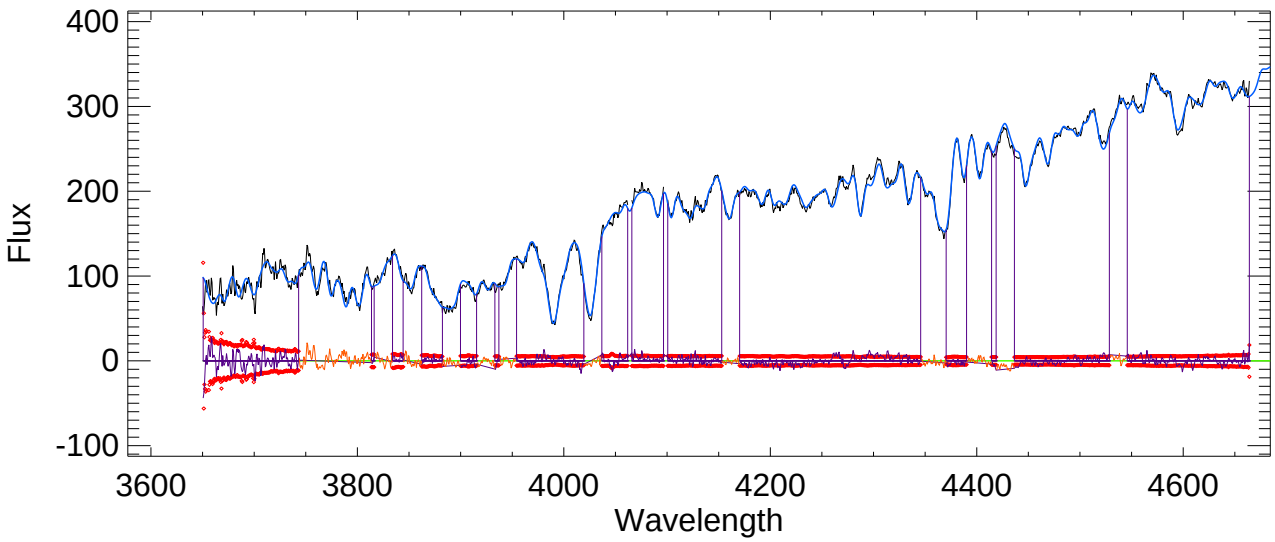

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

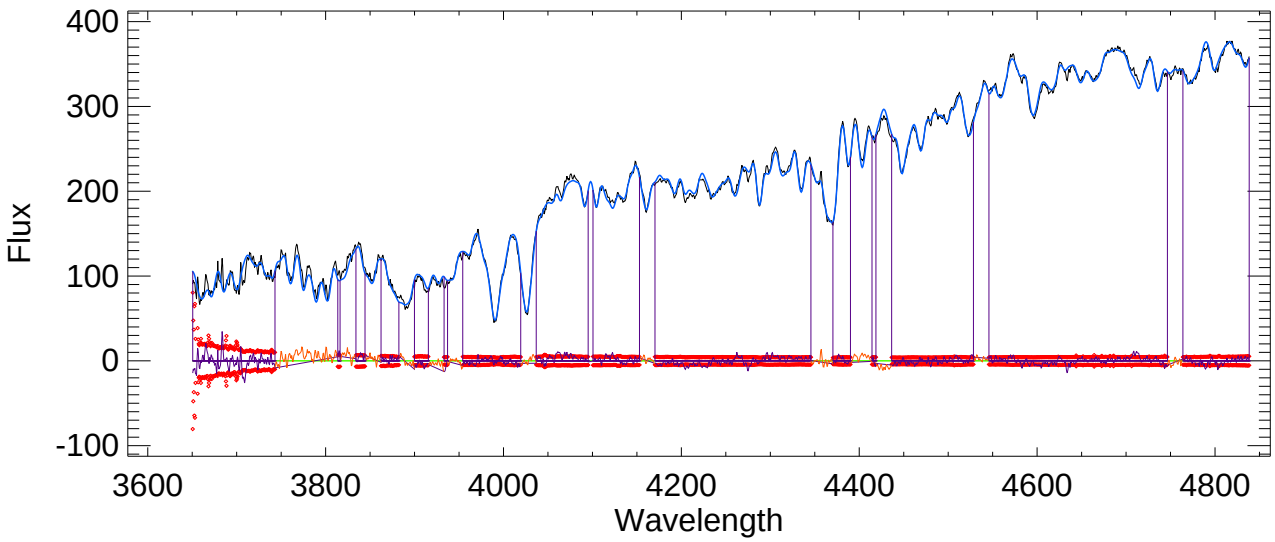

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

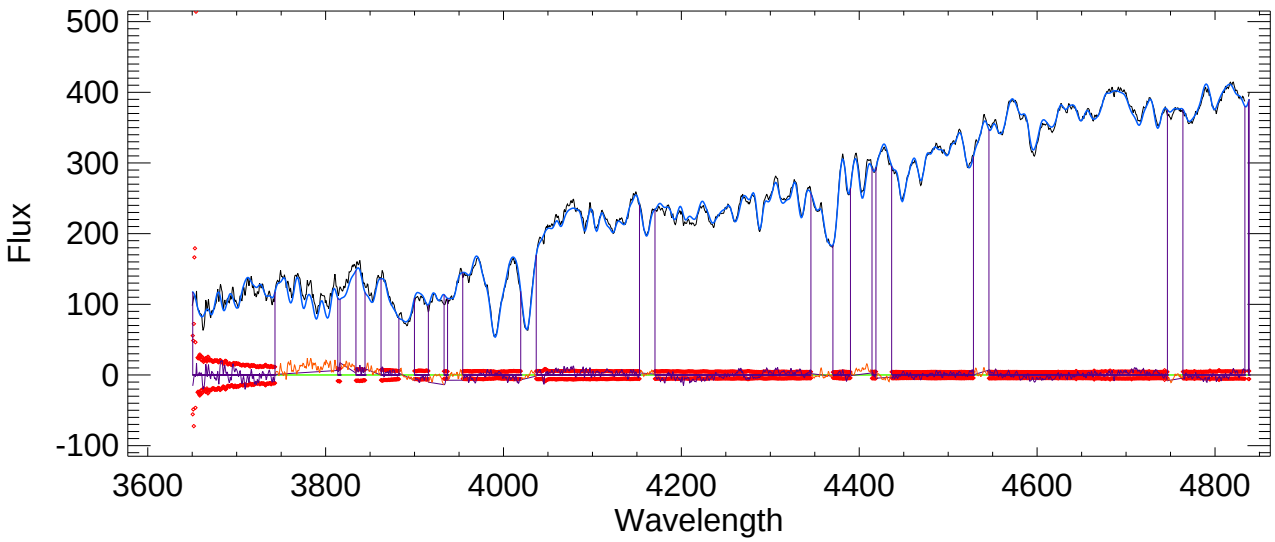

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

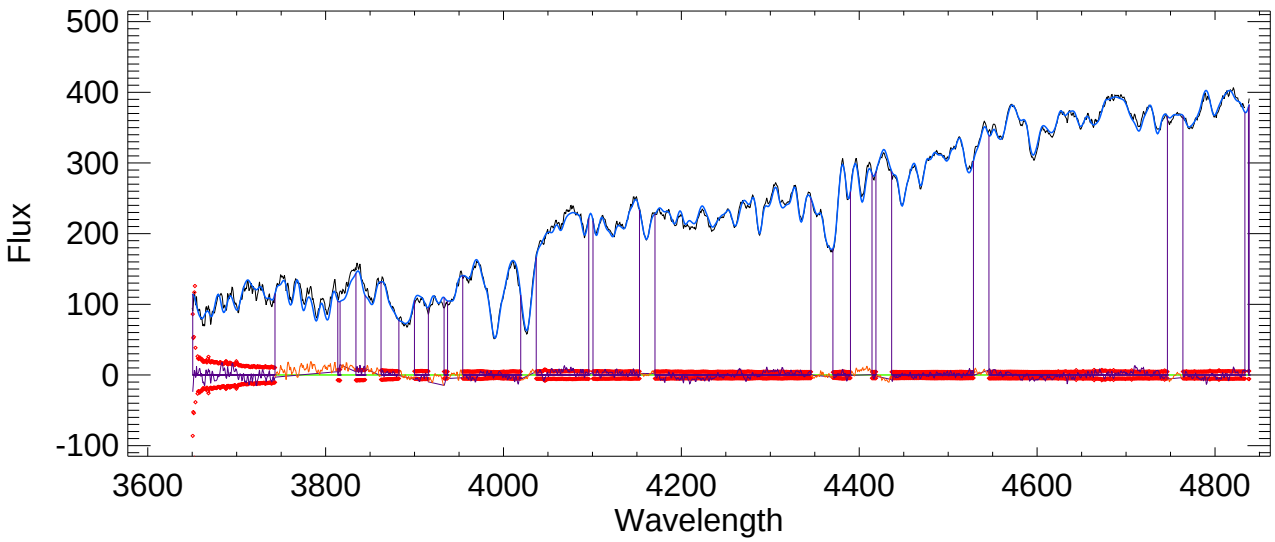

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

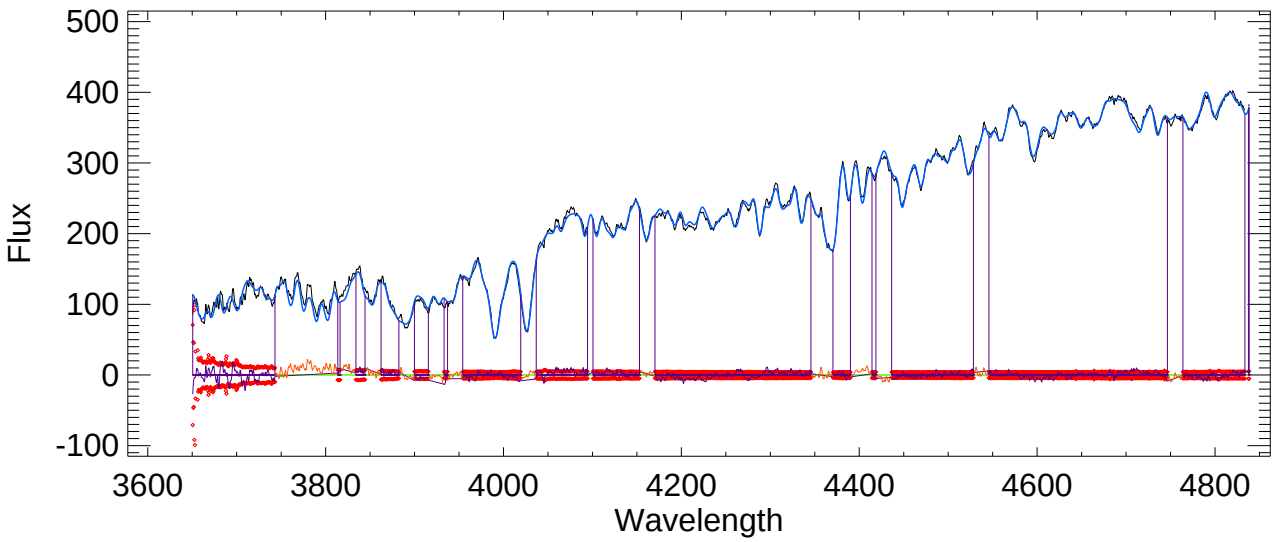

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

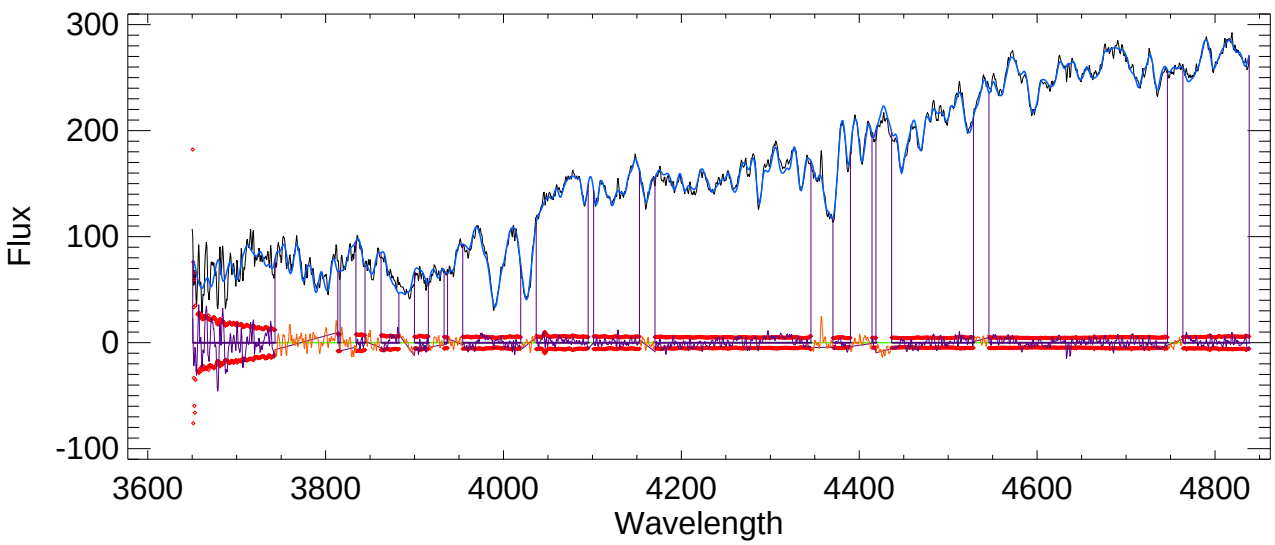

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

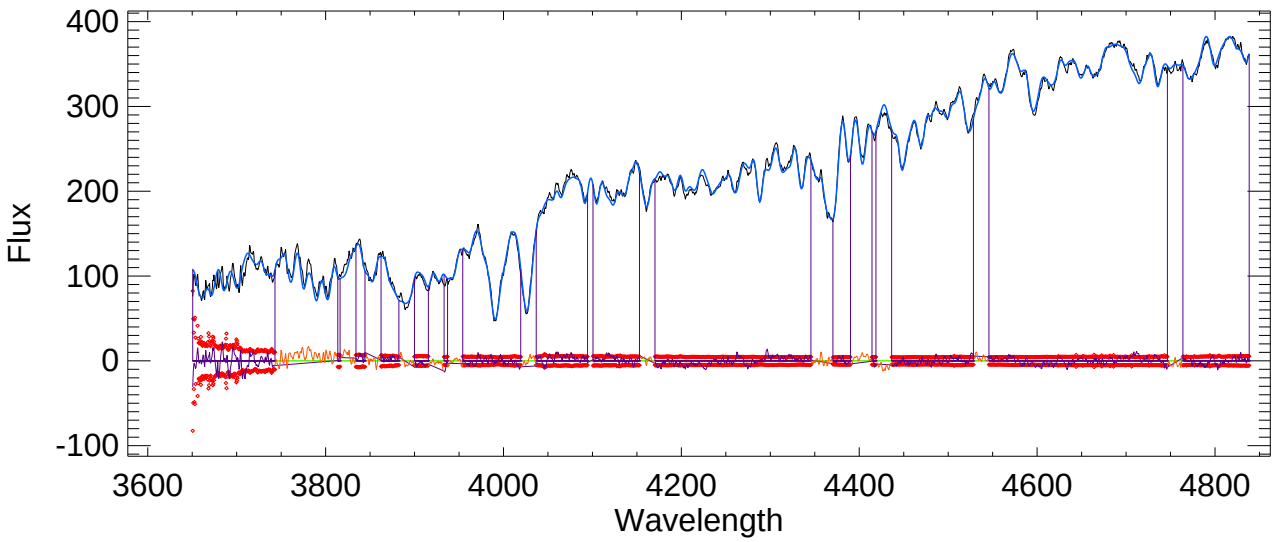

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

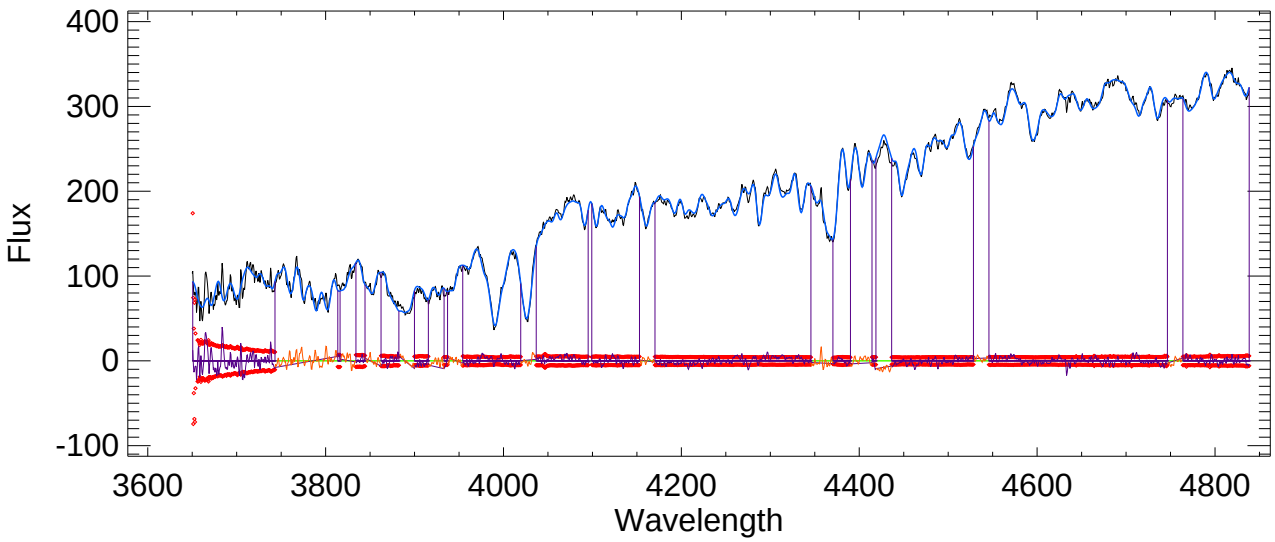

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

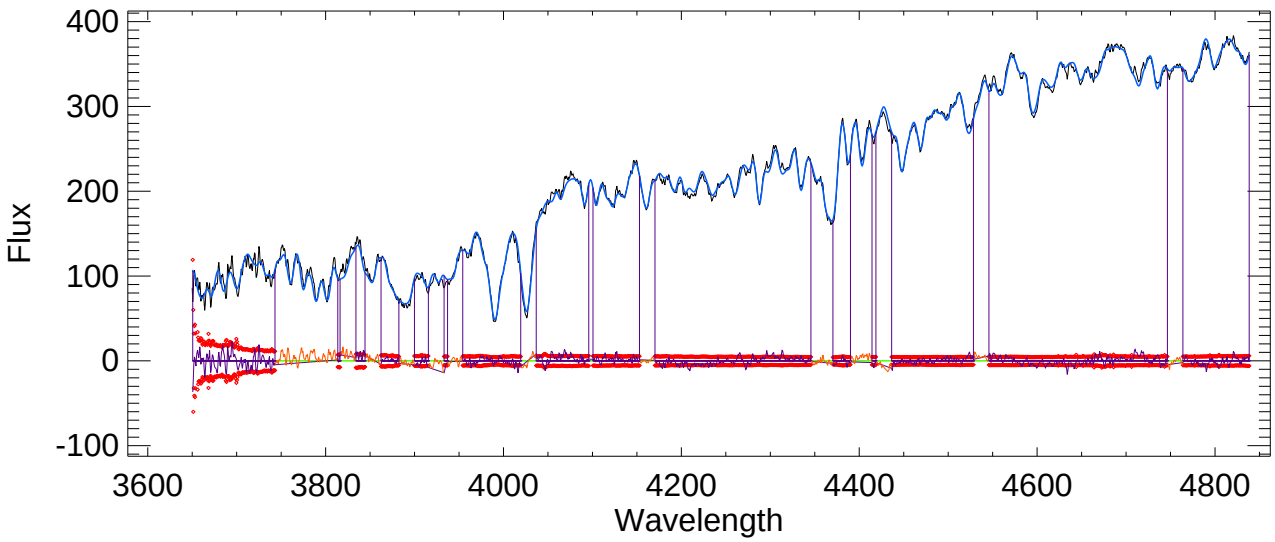

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

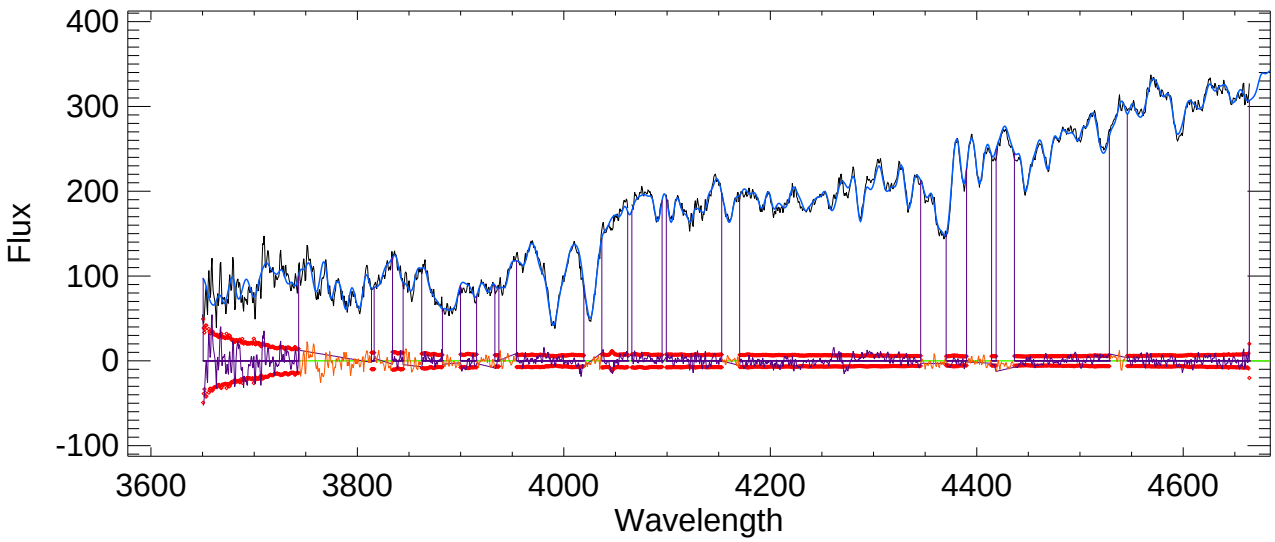

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

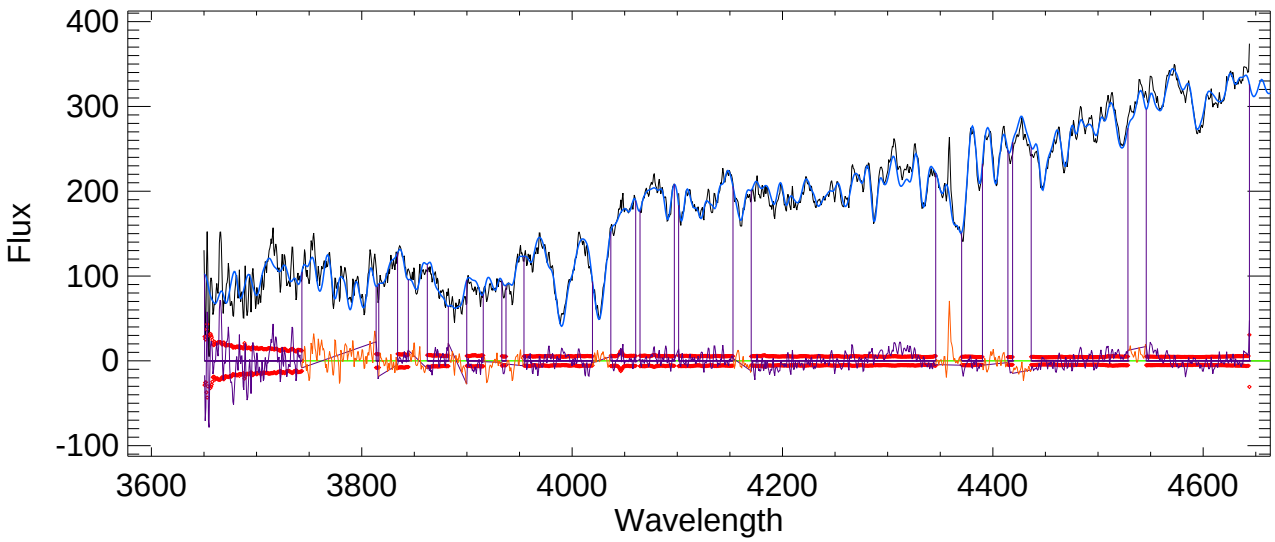

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

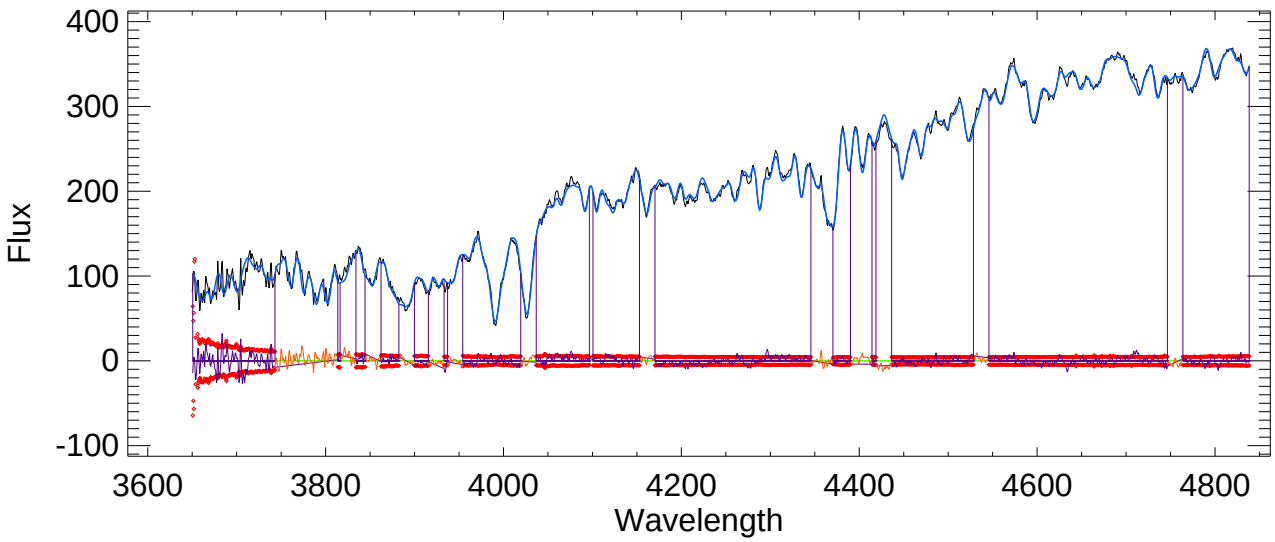

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

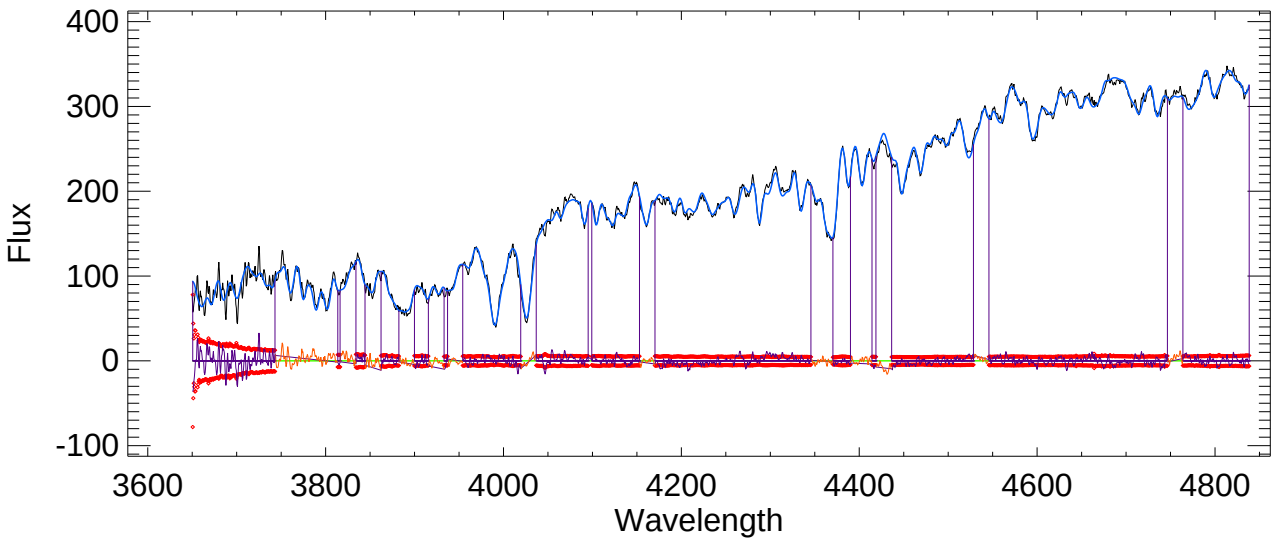

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

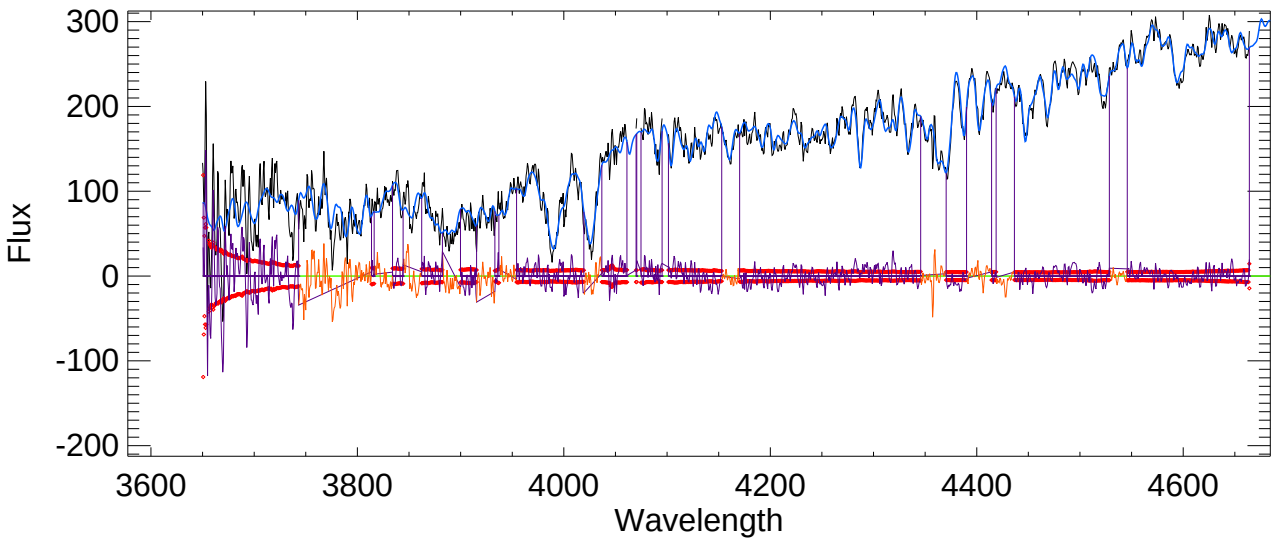

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

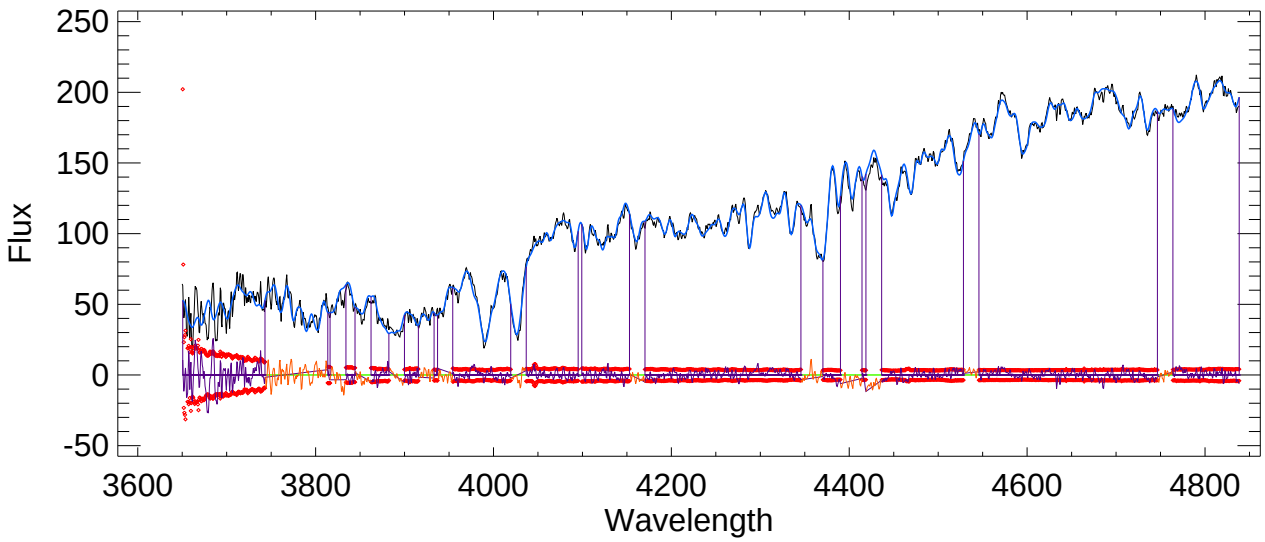

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

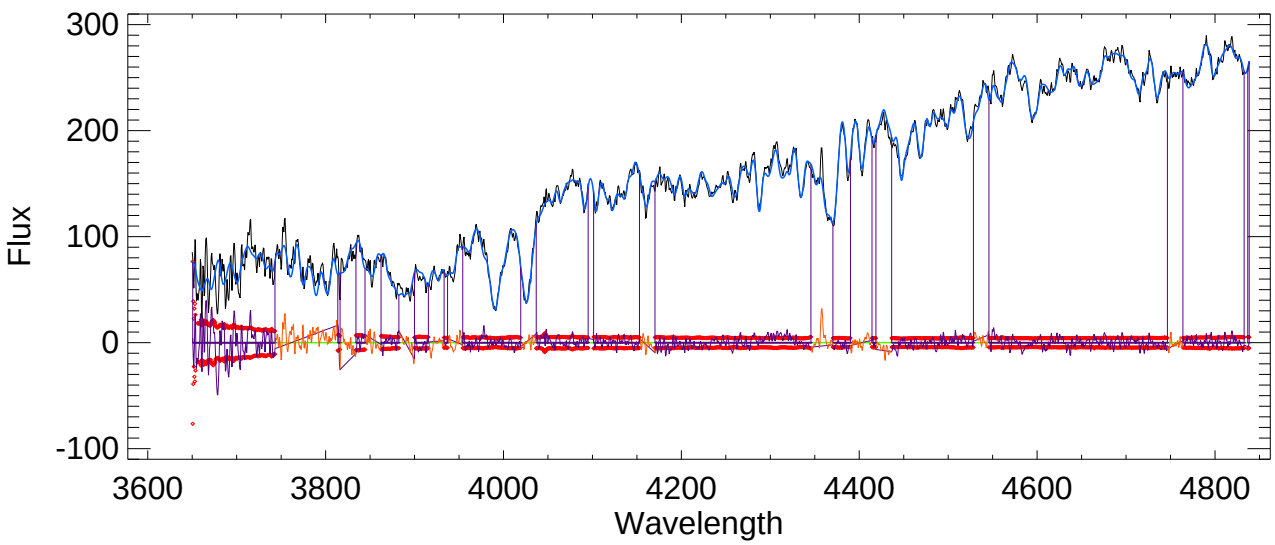

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

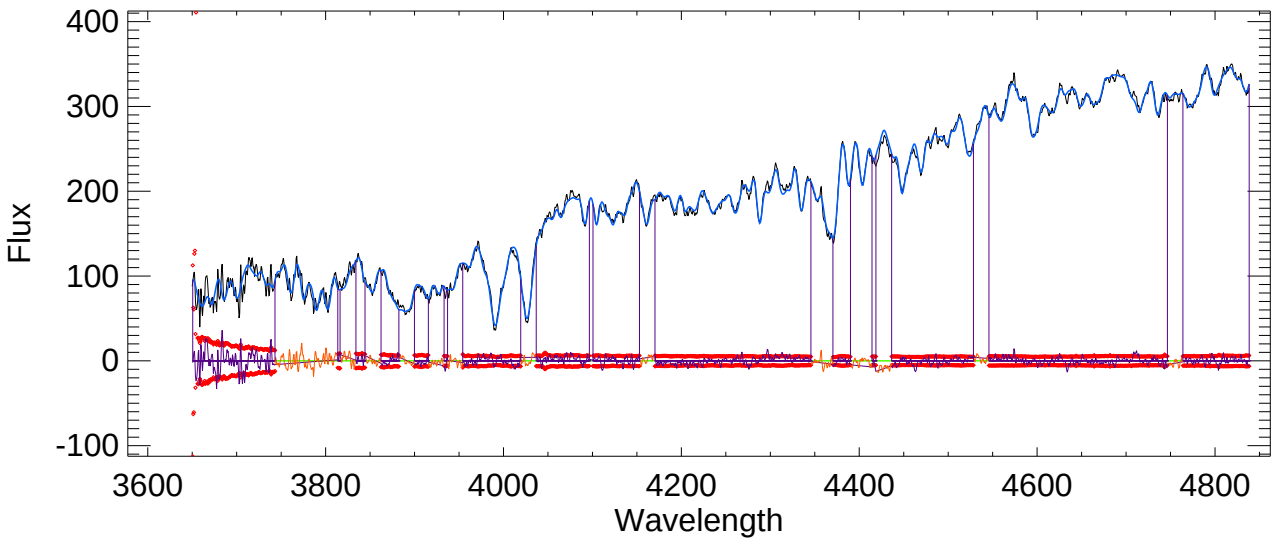

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

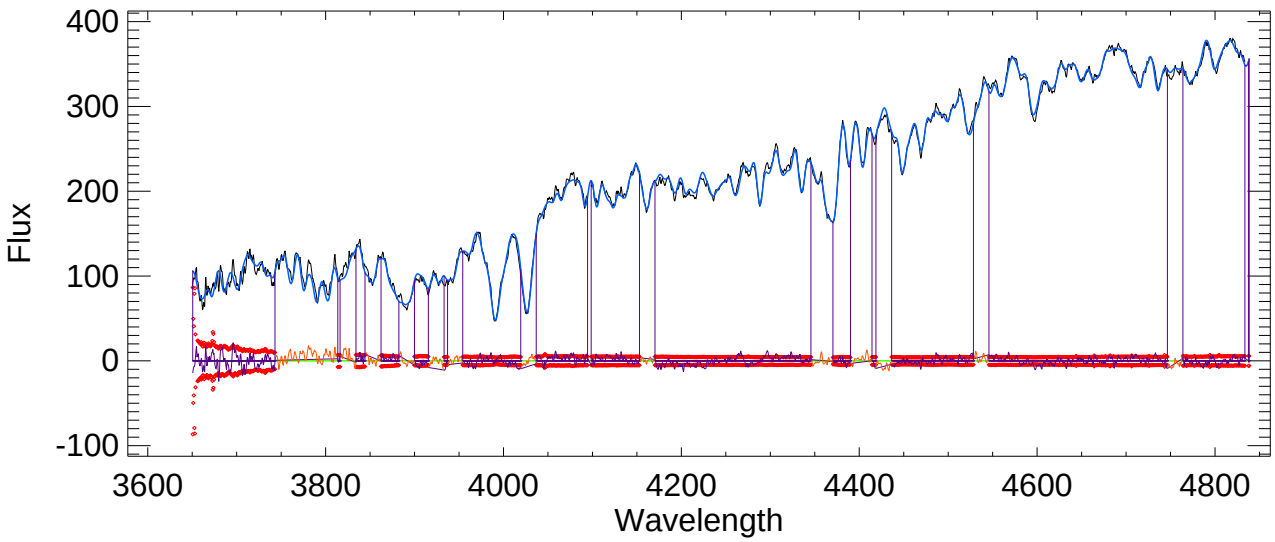

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

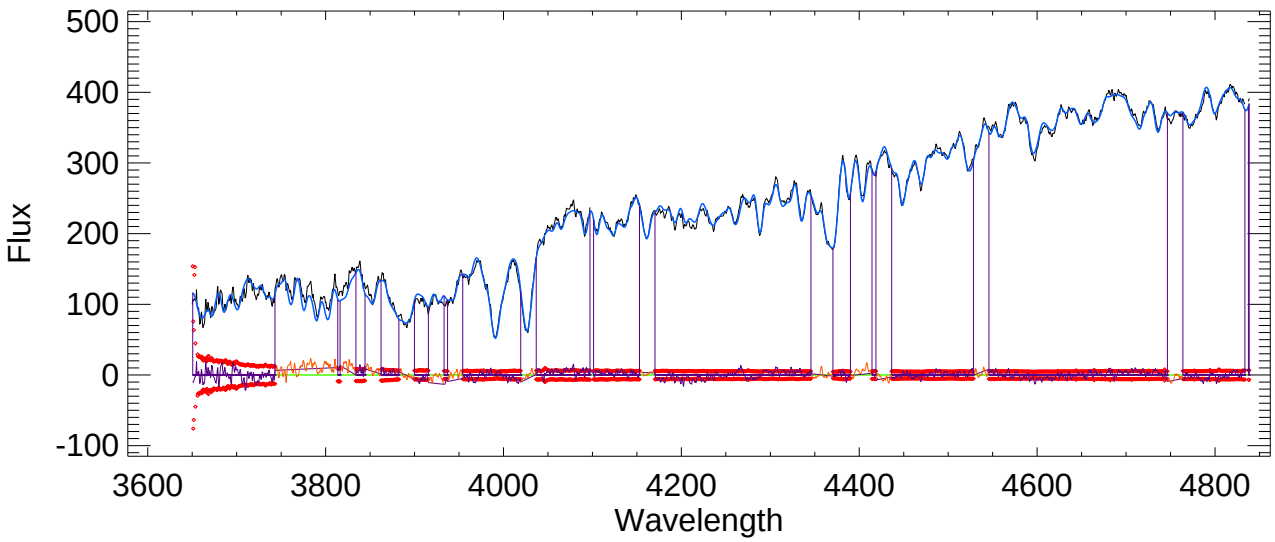

300
200
100
0
-100
-200
Flux
3600
3800
4000
4200
4400
4600
Wavelength

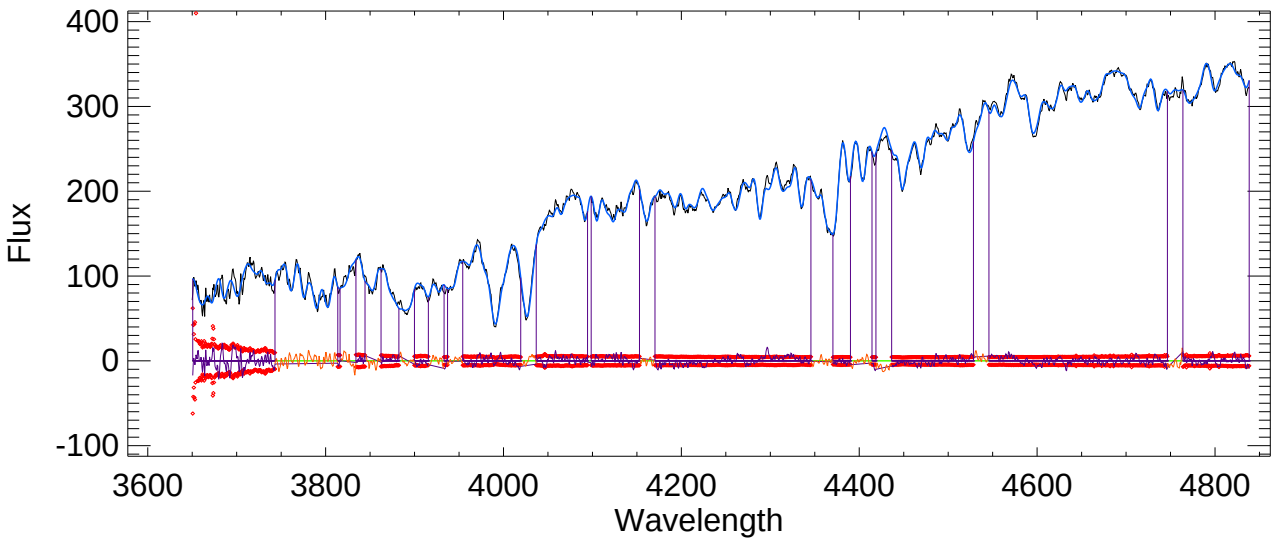

250
200
150
100
50
0
-50
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

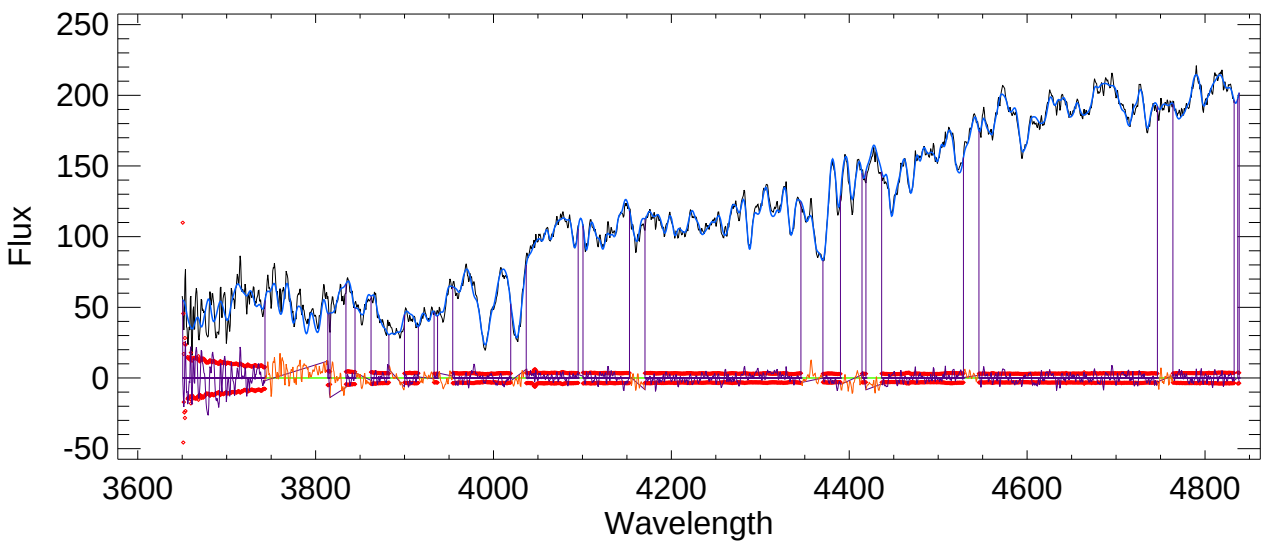

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

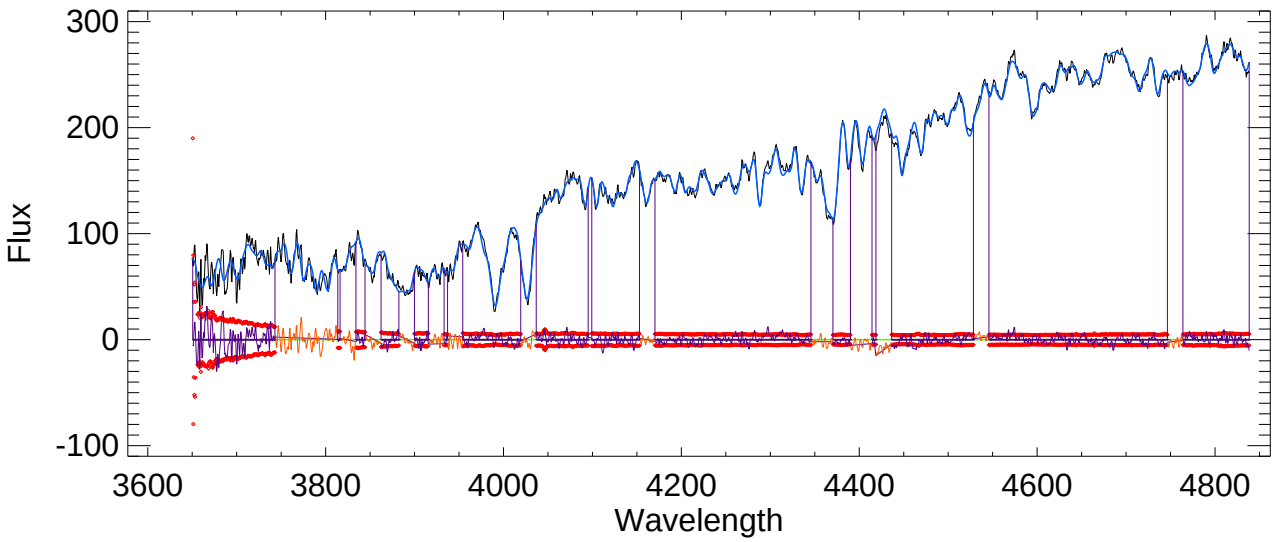

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

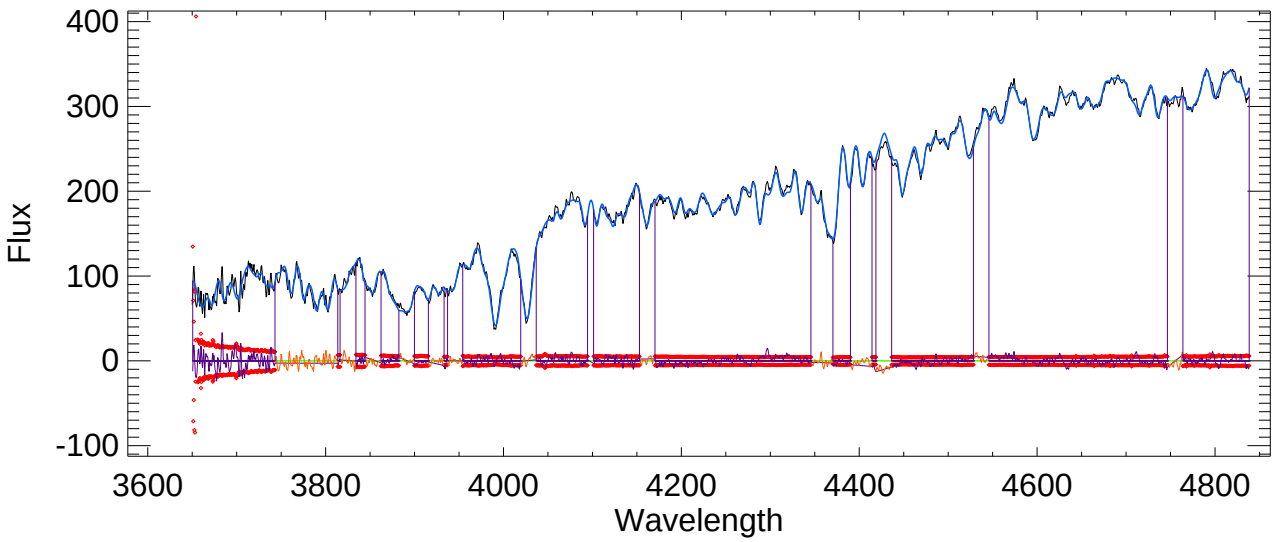

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

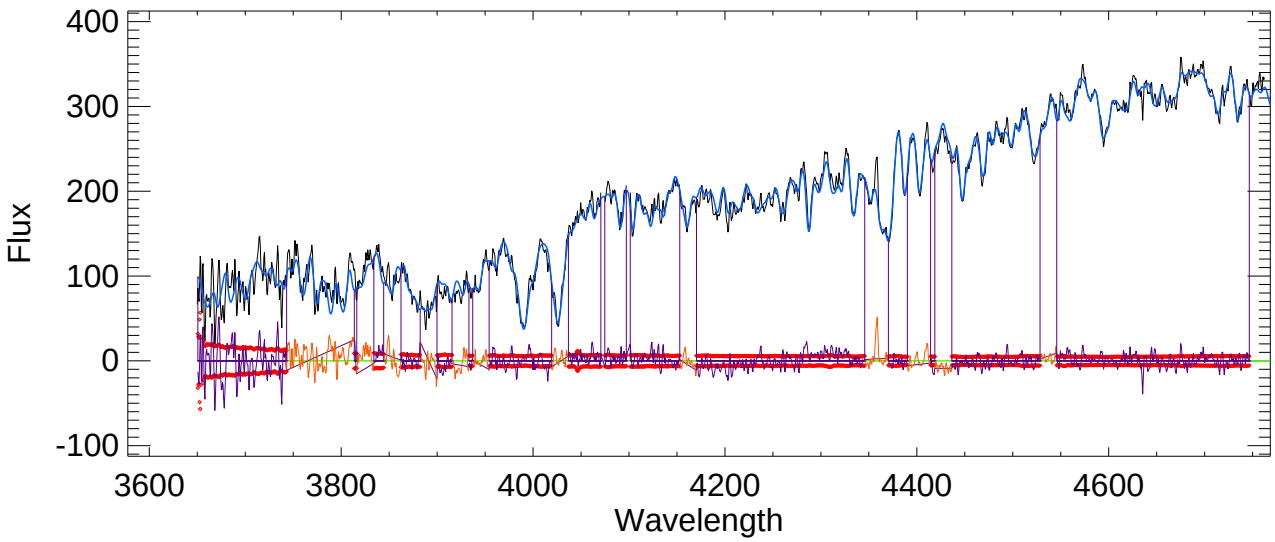

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

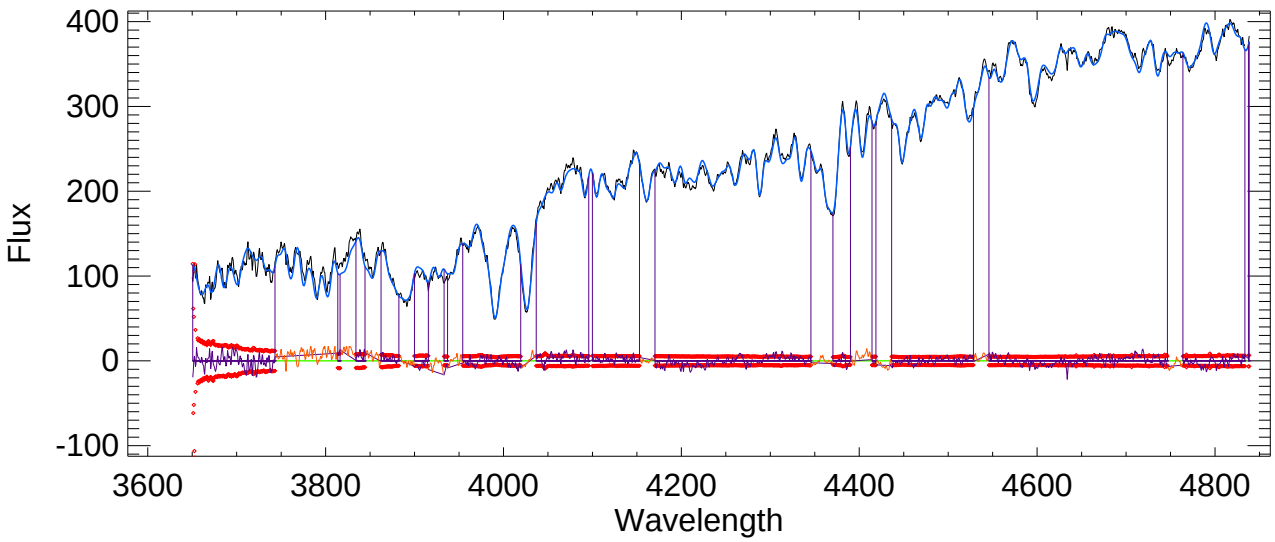

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

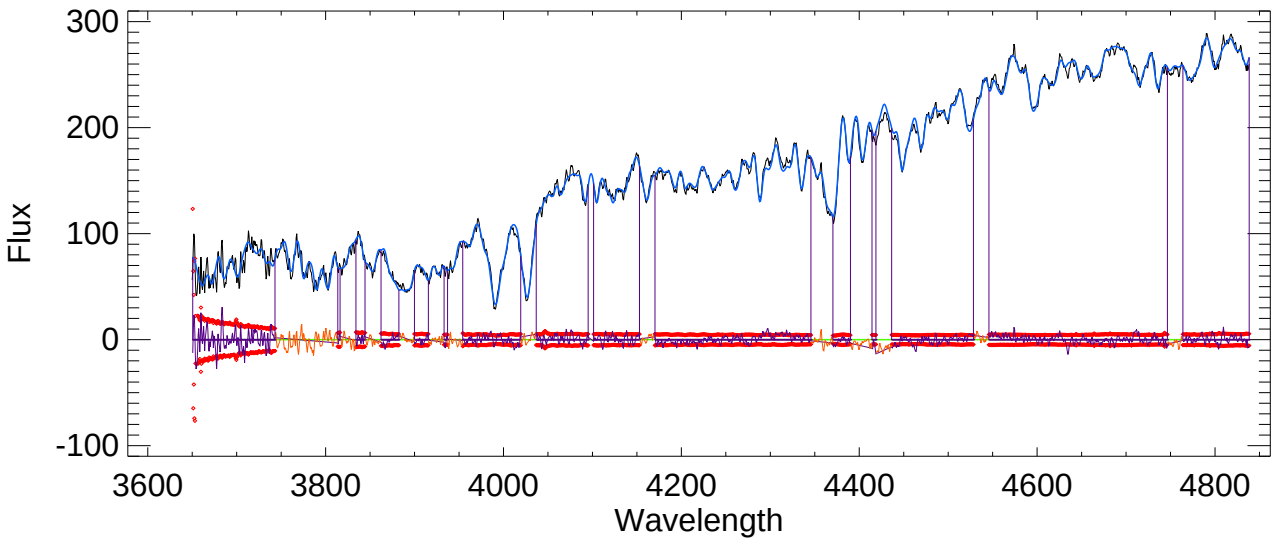

250
200
150
100
50
0
-50
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

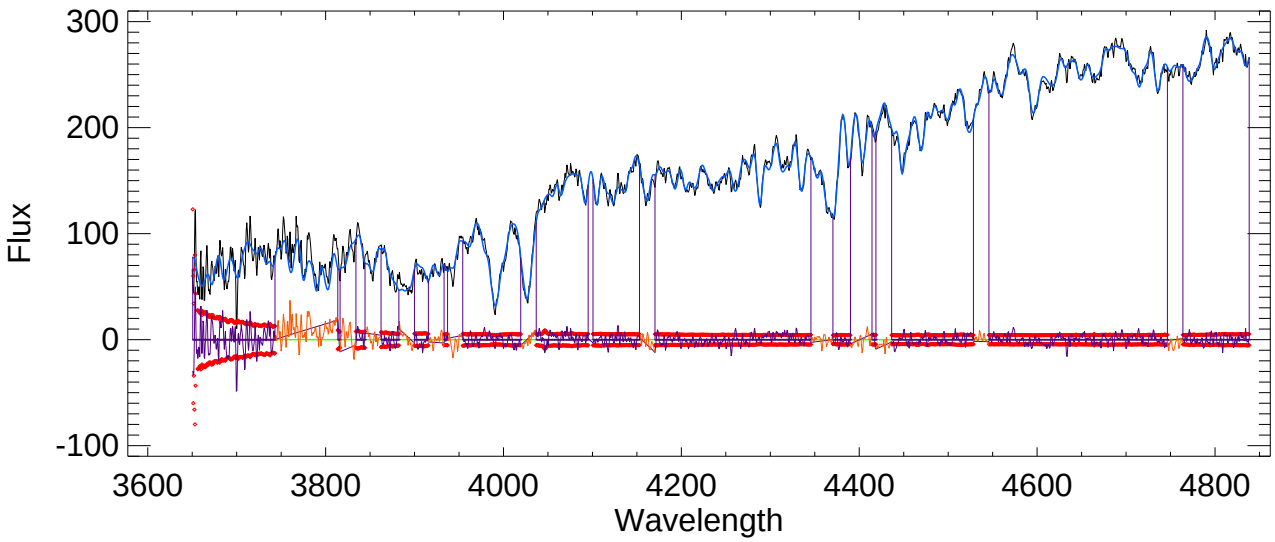

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

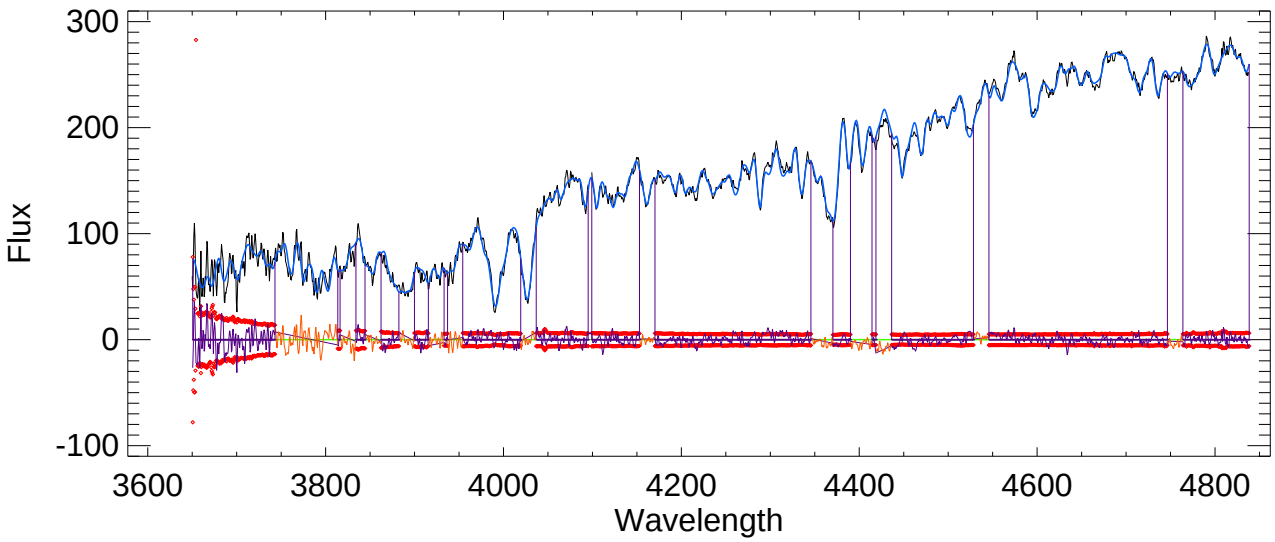

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

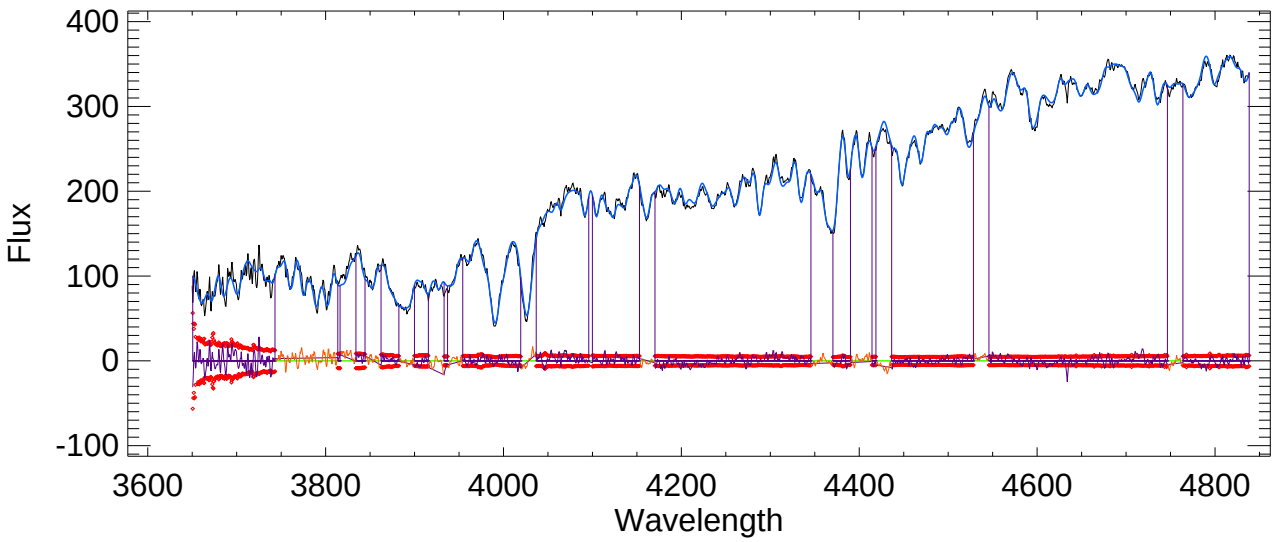

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

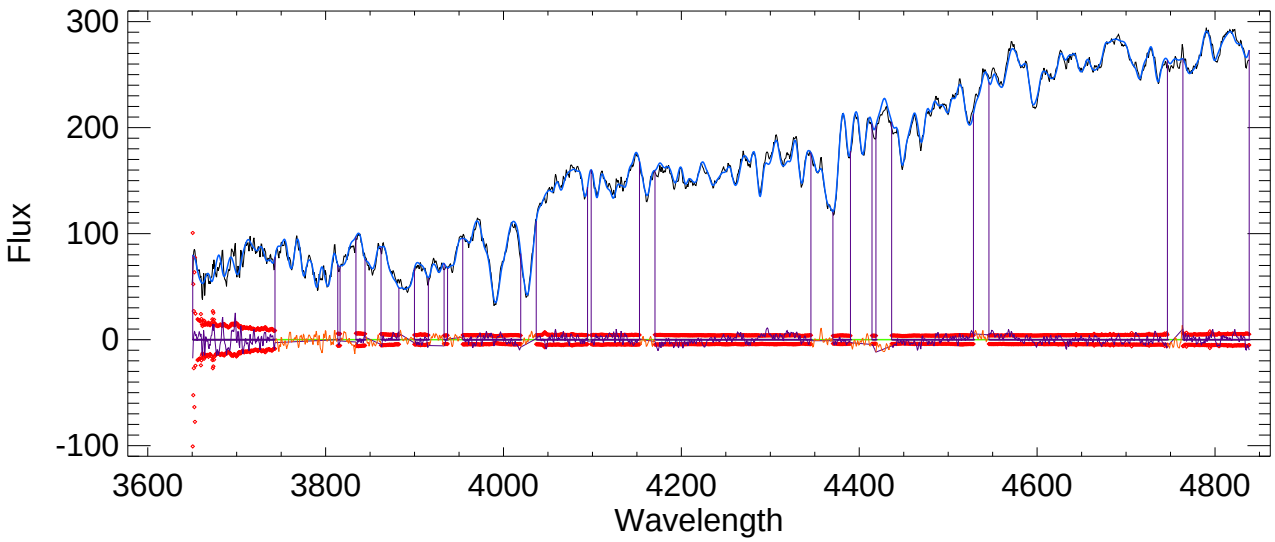

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

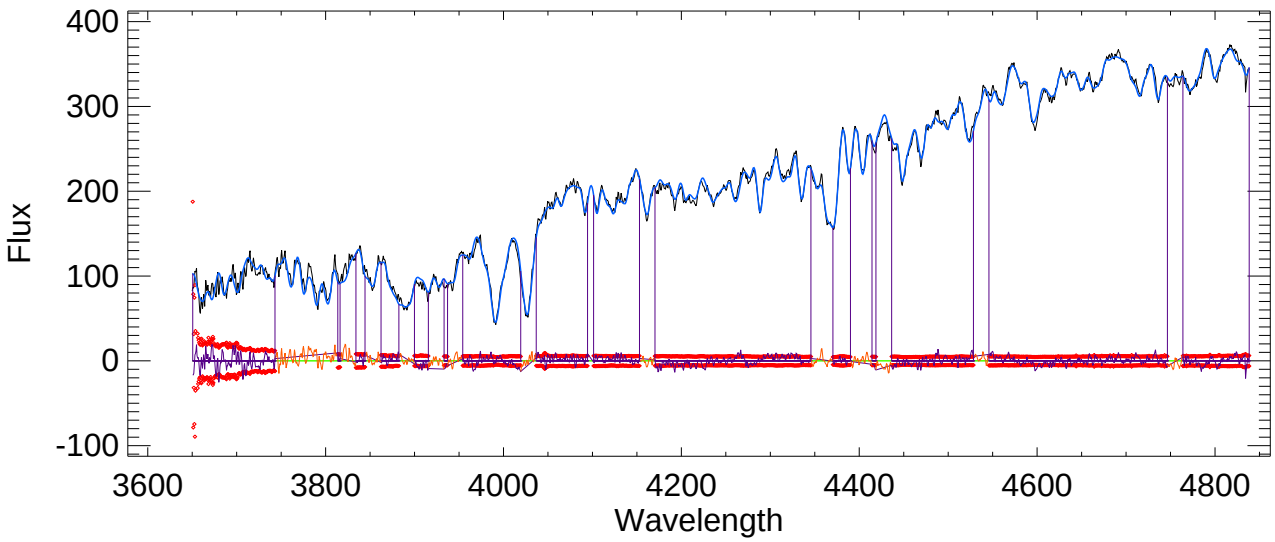

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

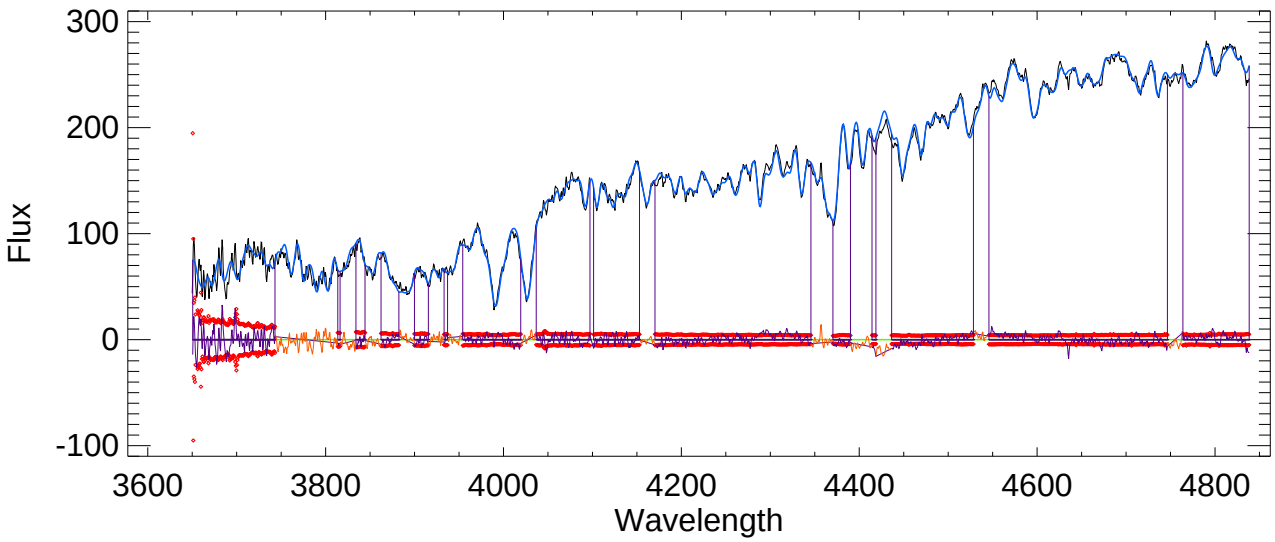

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

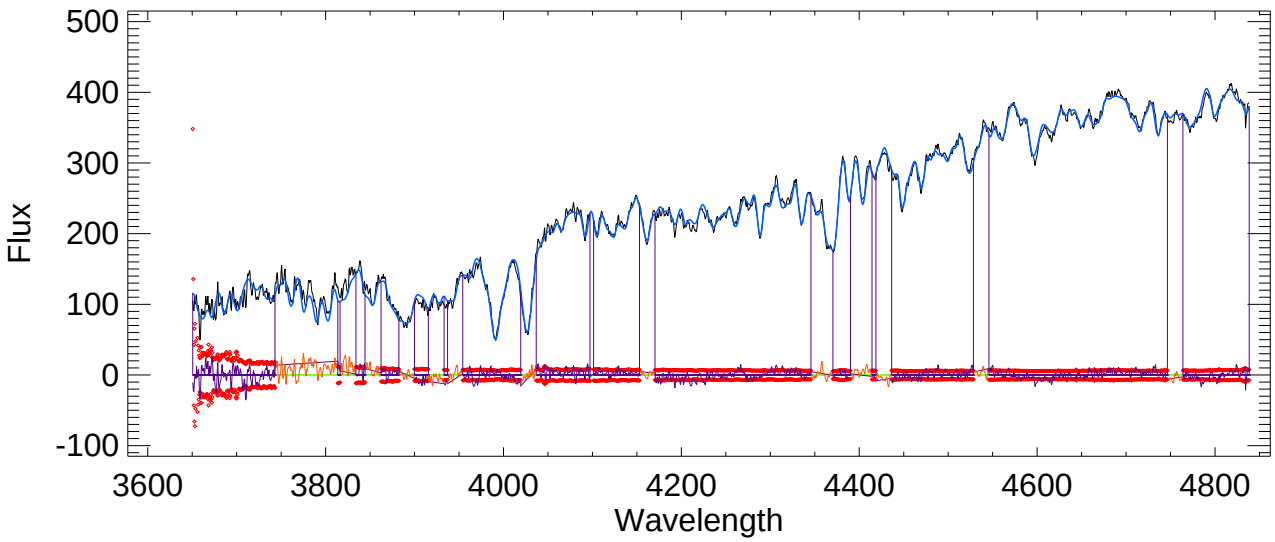

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

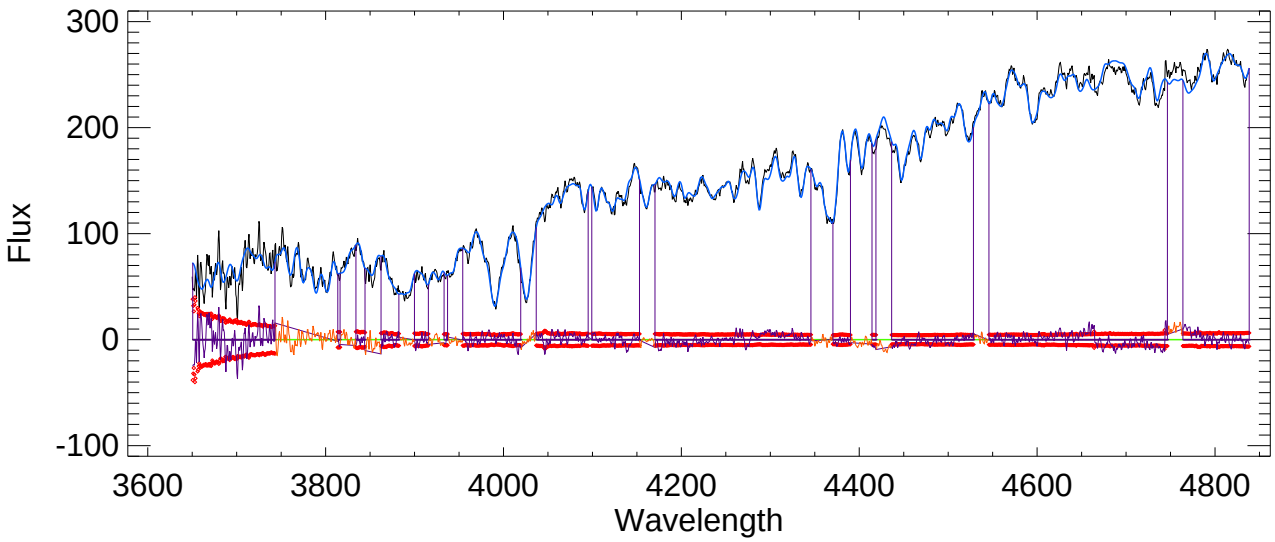

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

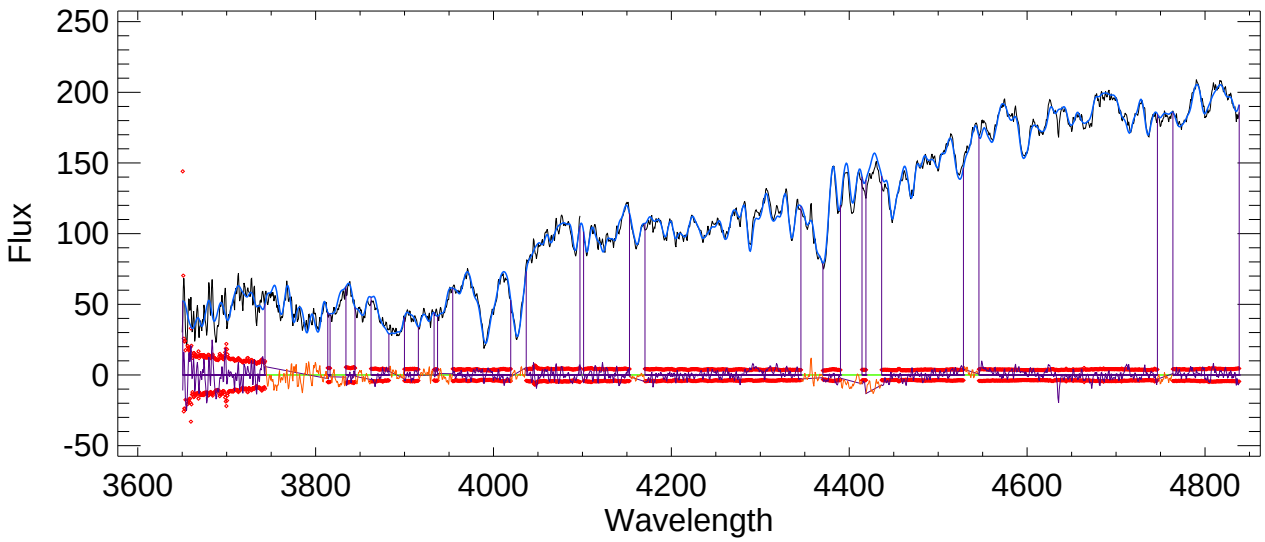

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

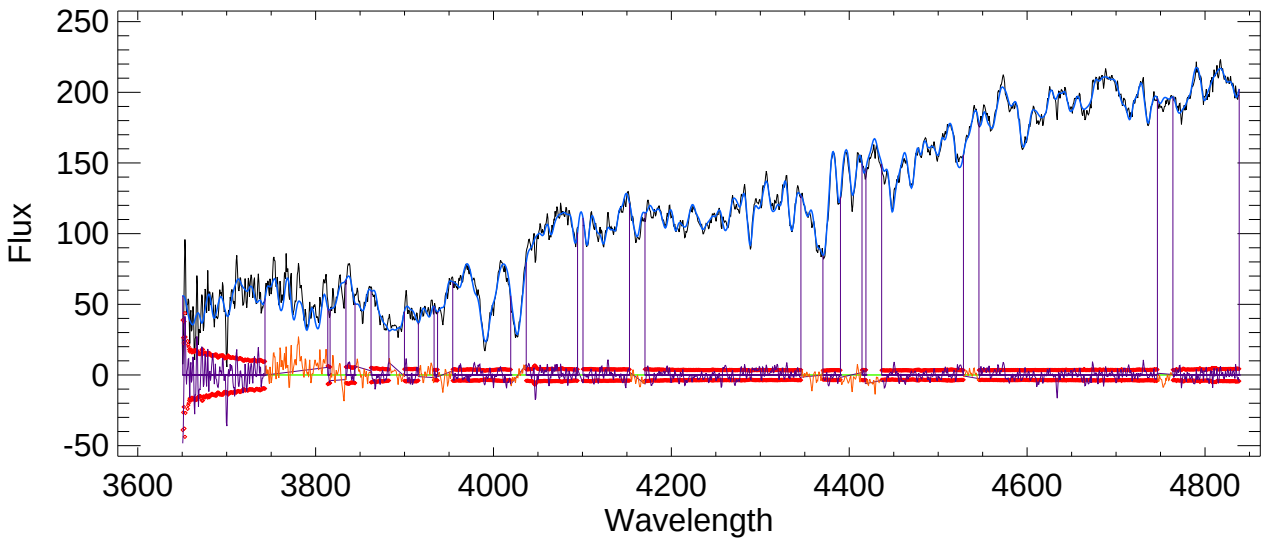

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

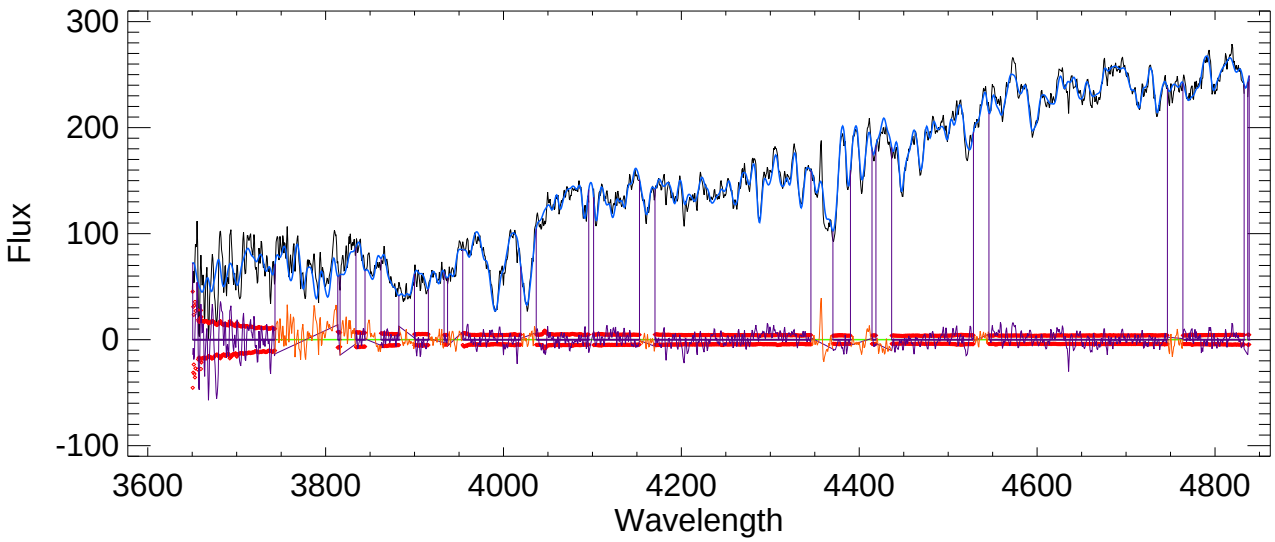

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

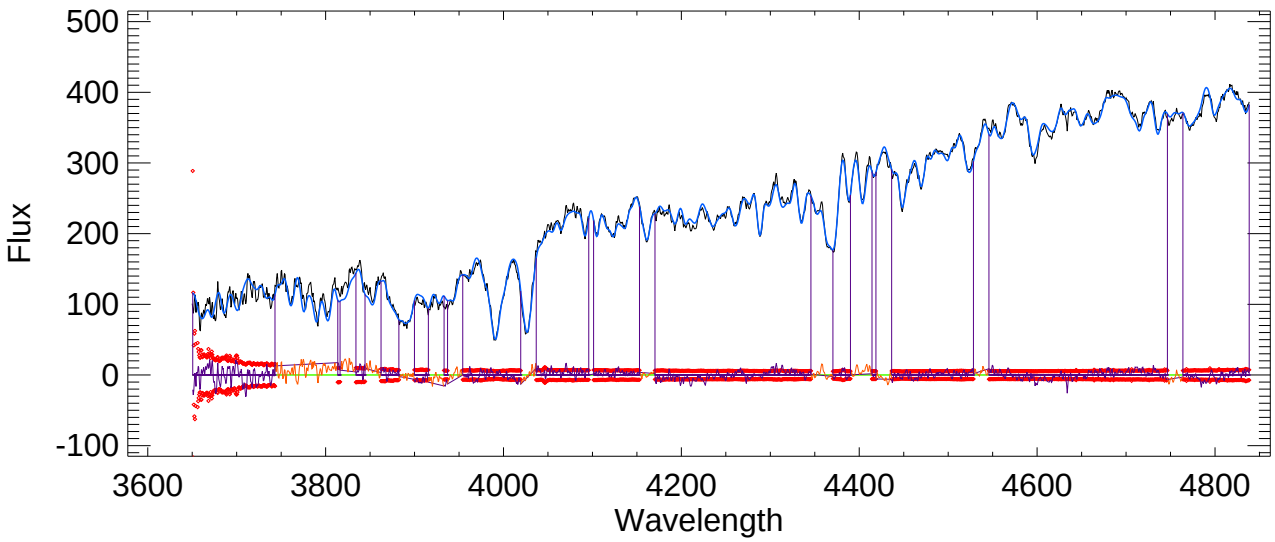

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

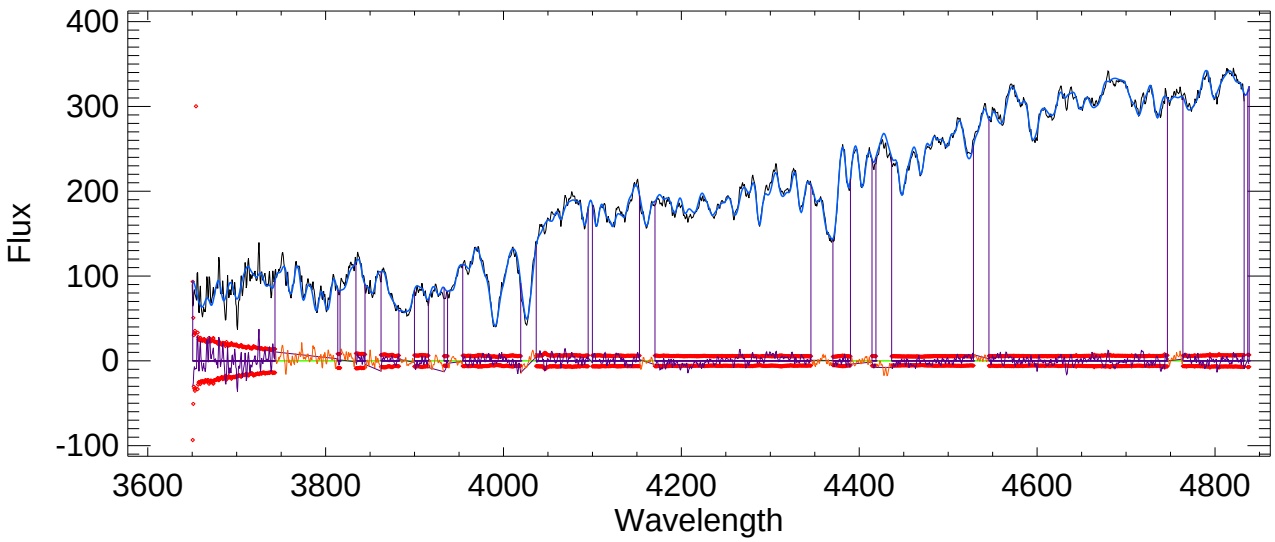

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

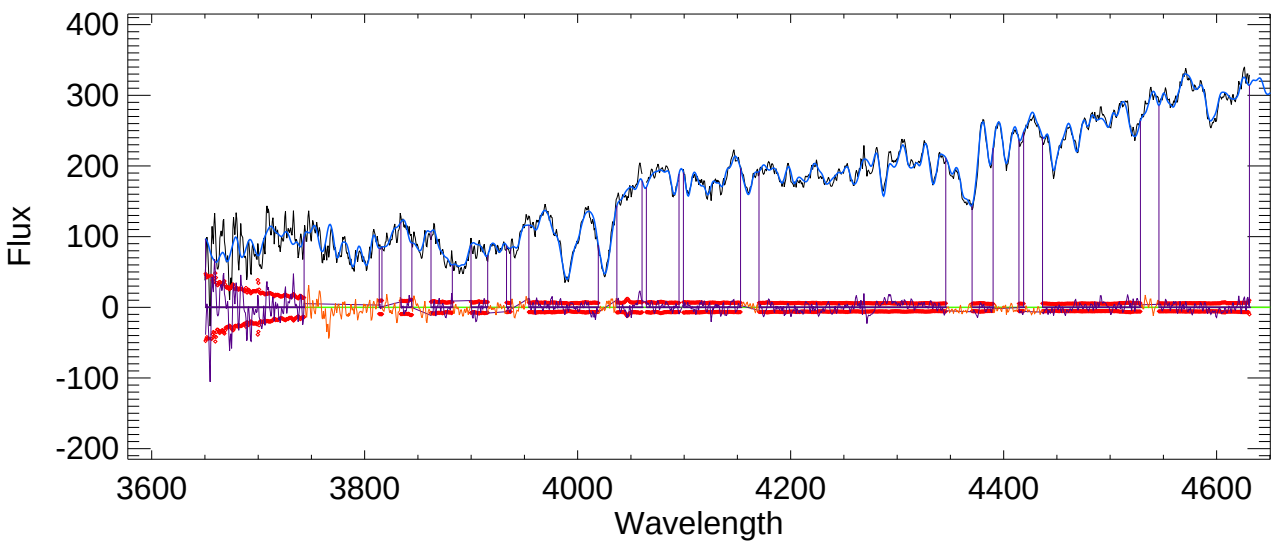

250
200
150
100
50
0
-50
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

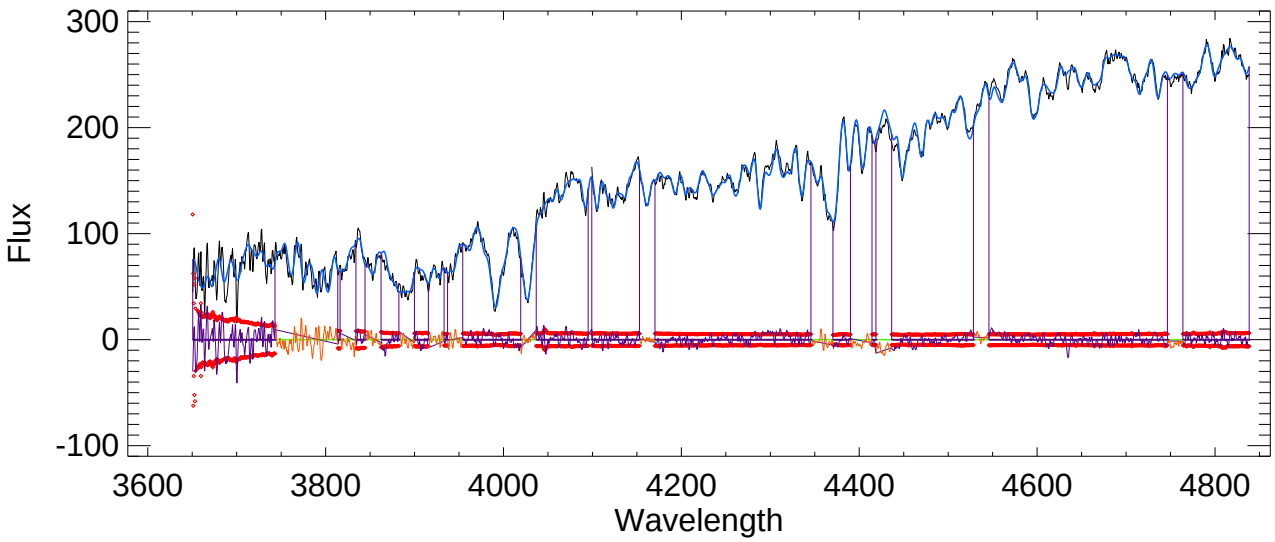

250
200
150
100
50
0
-50
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

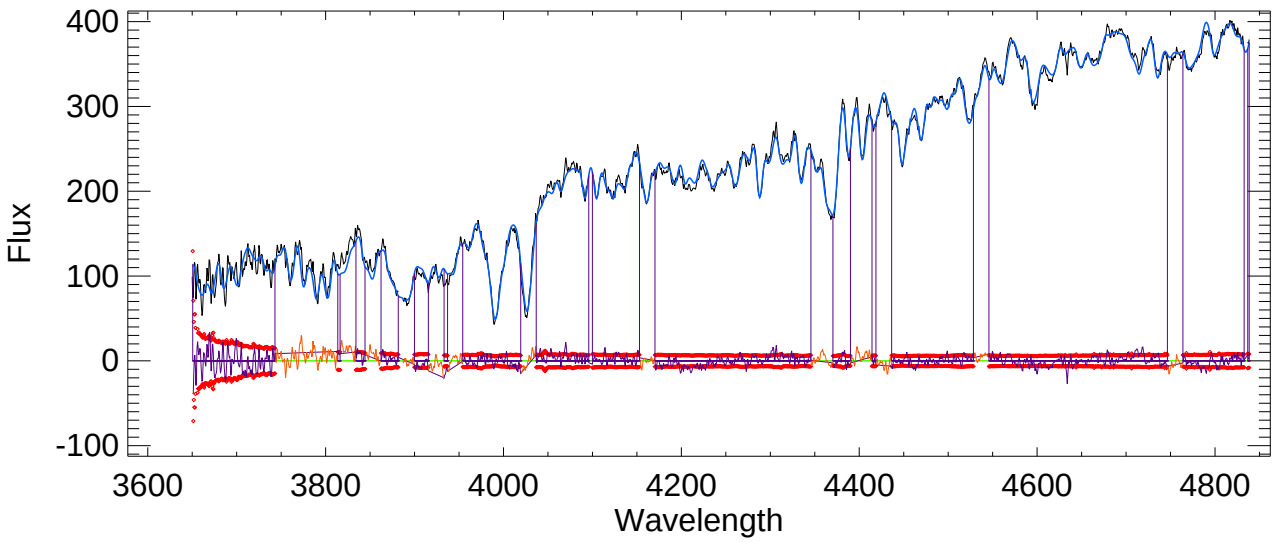

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

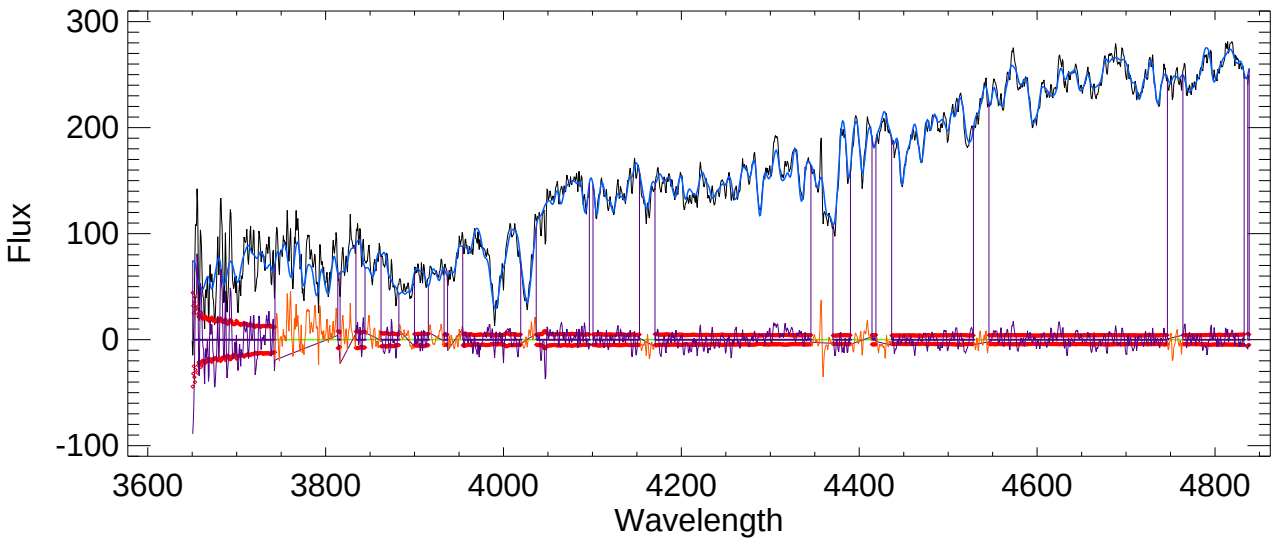

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

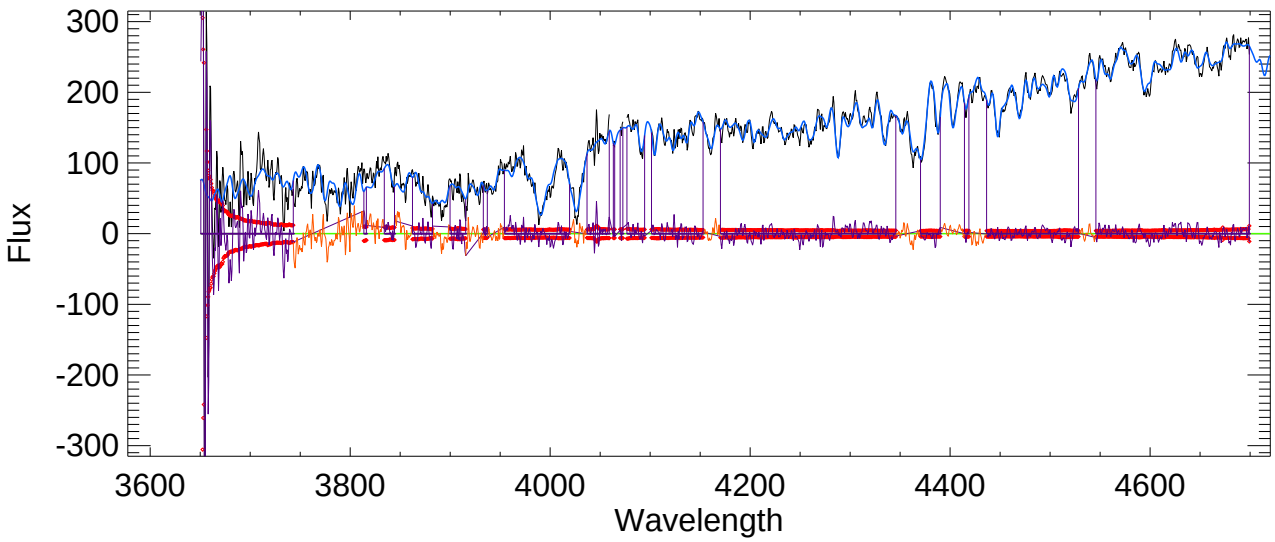

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

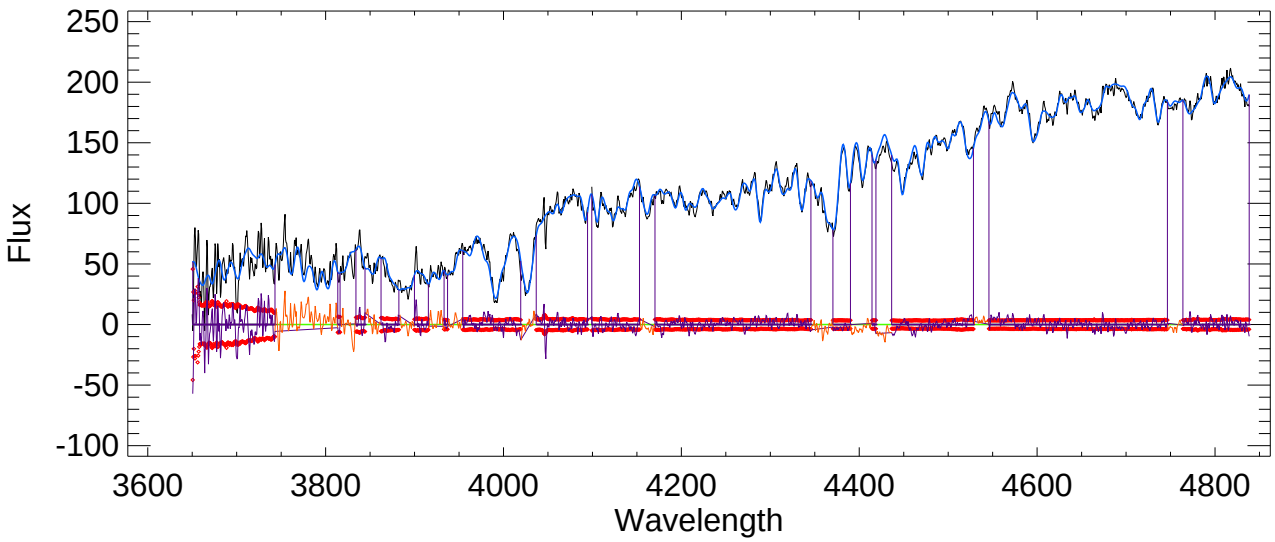

400
300
200
100
0
-100
-200
Flux
3600
3800
4000
4200
4400
4600
Wavelength

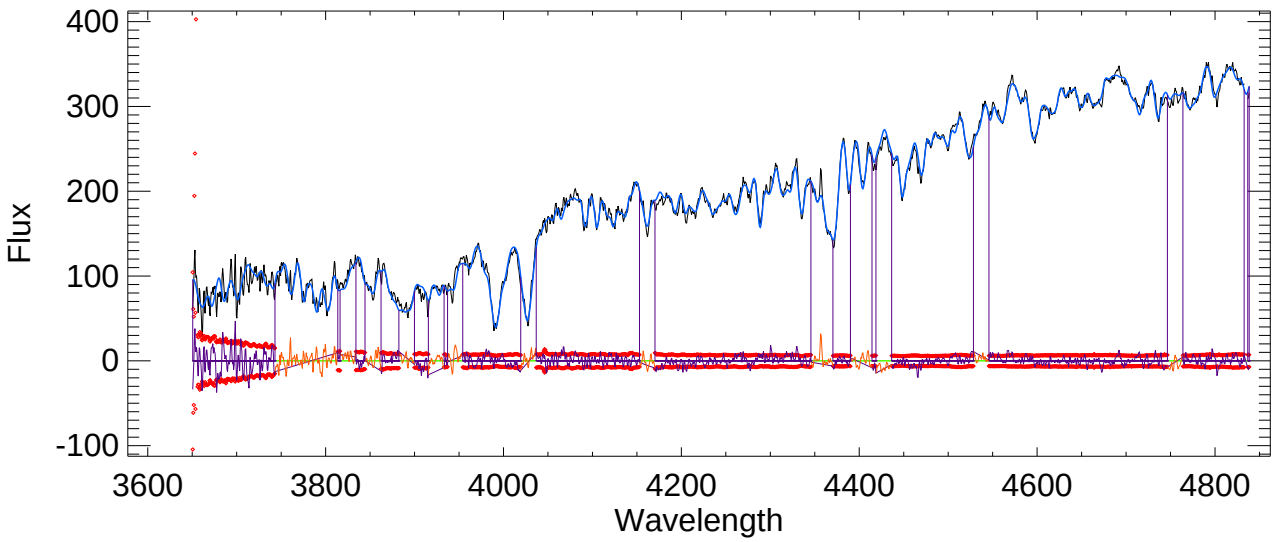

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

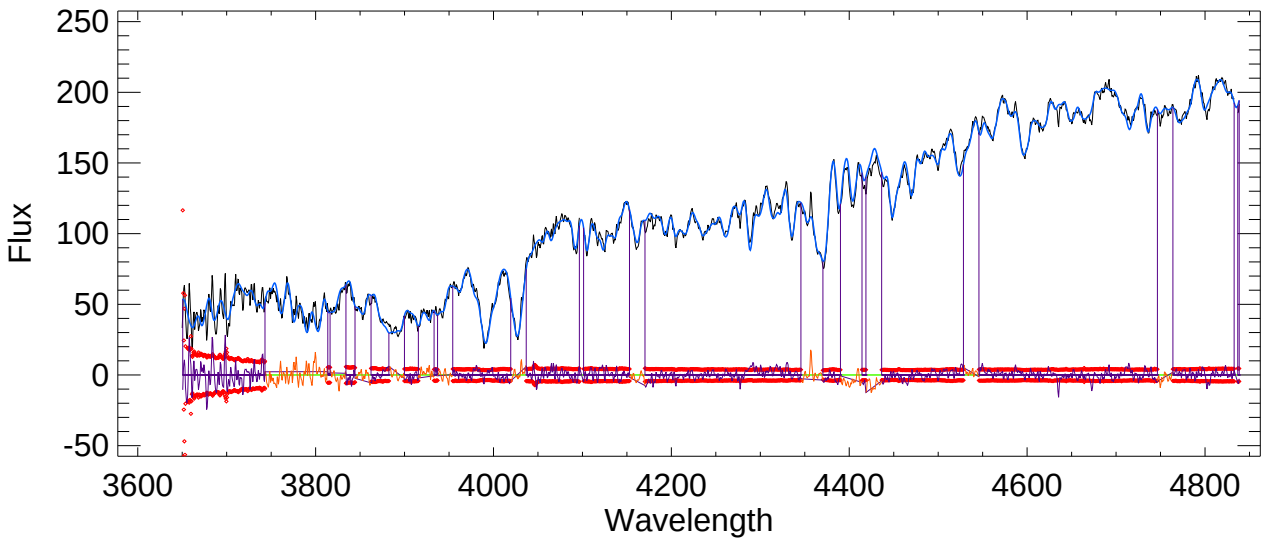

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

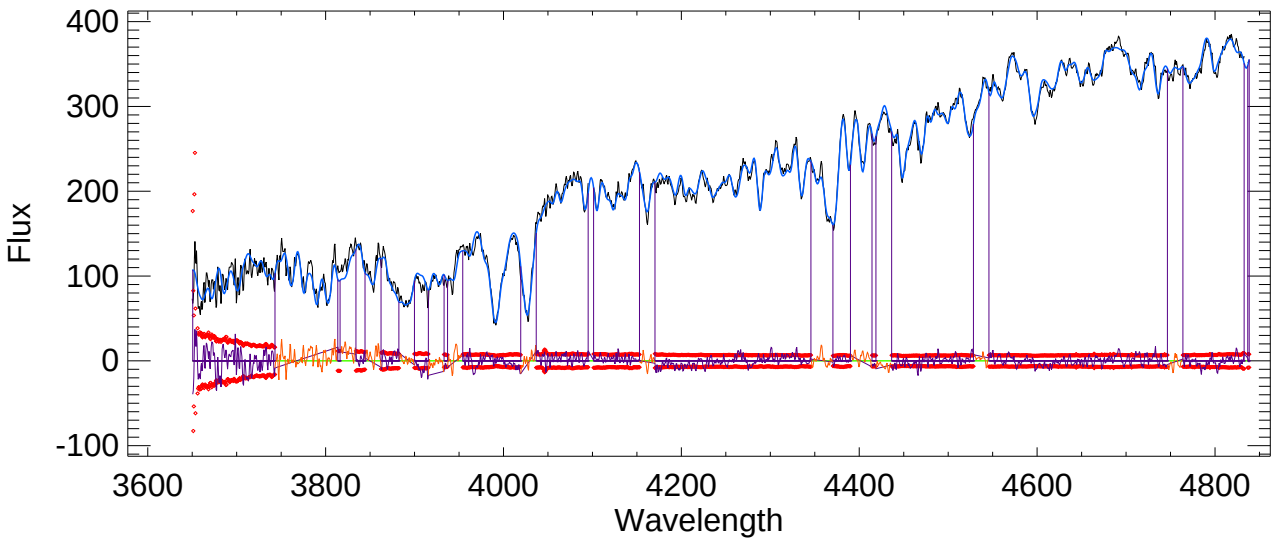

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

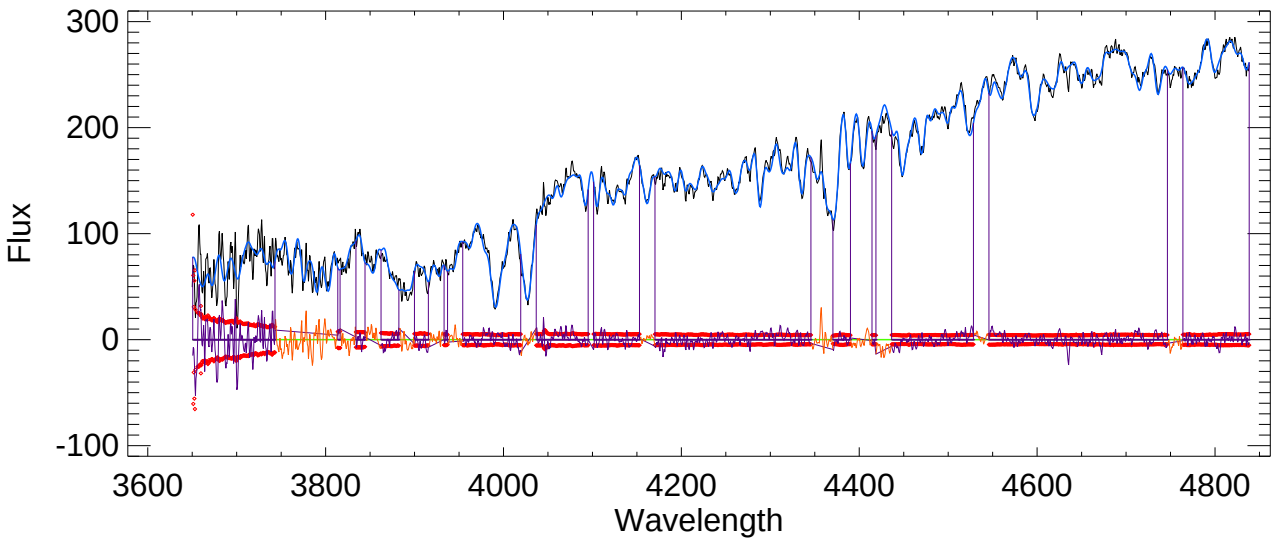

300
200
100
0
-100
-200
-300
Flux
3600
3800
4000
4200
4400
4600
Wavelength

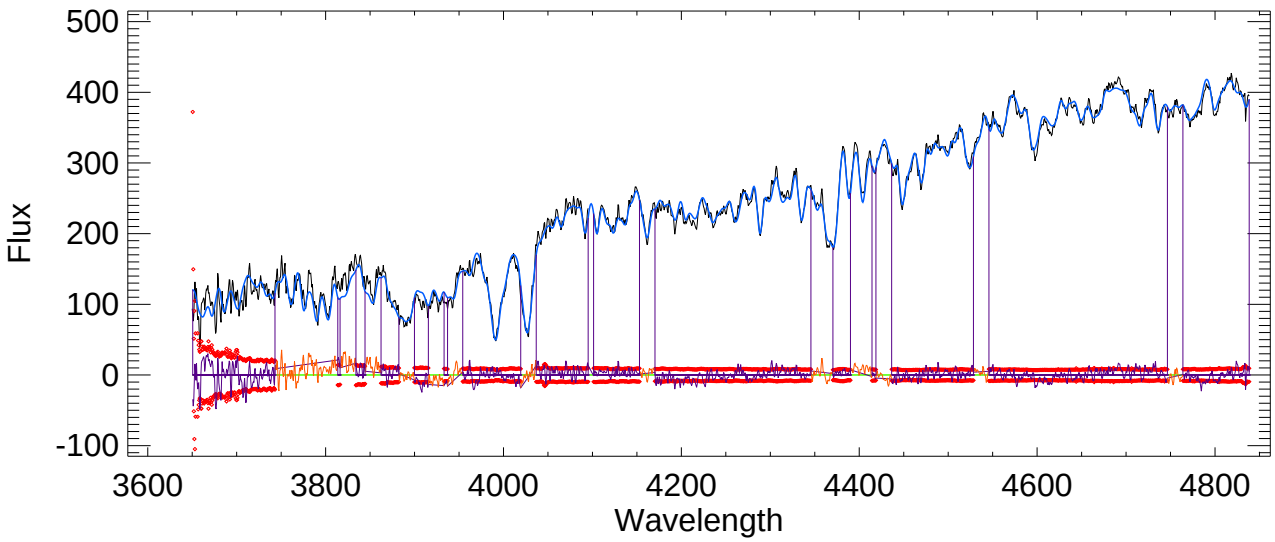

250
200
150
100
50
0
-50
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

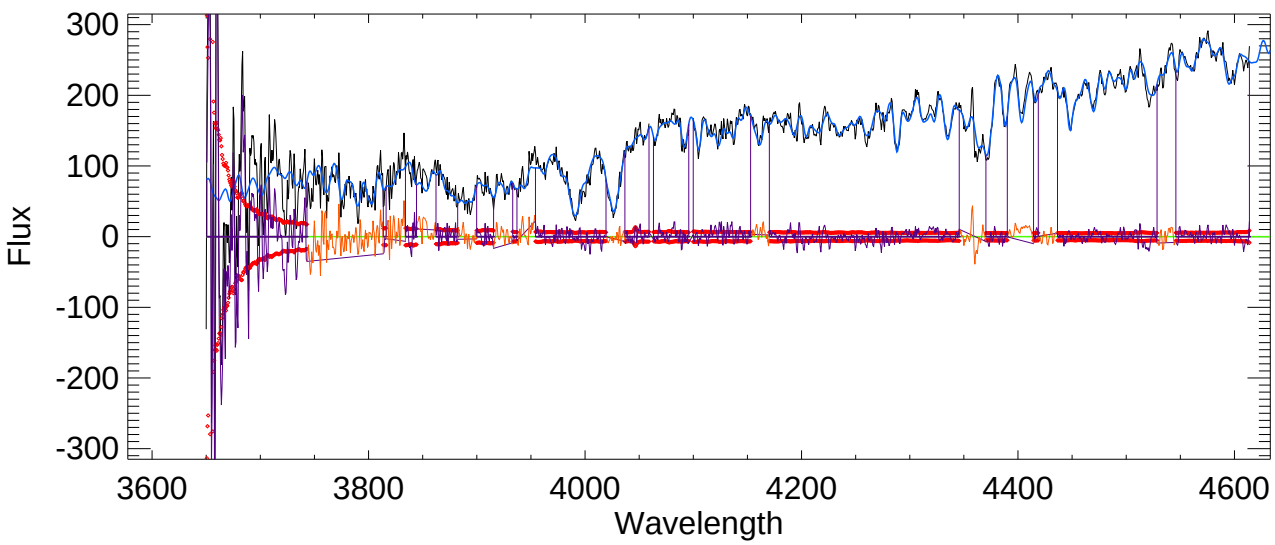

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

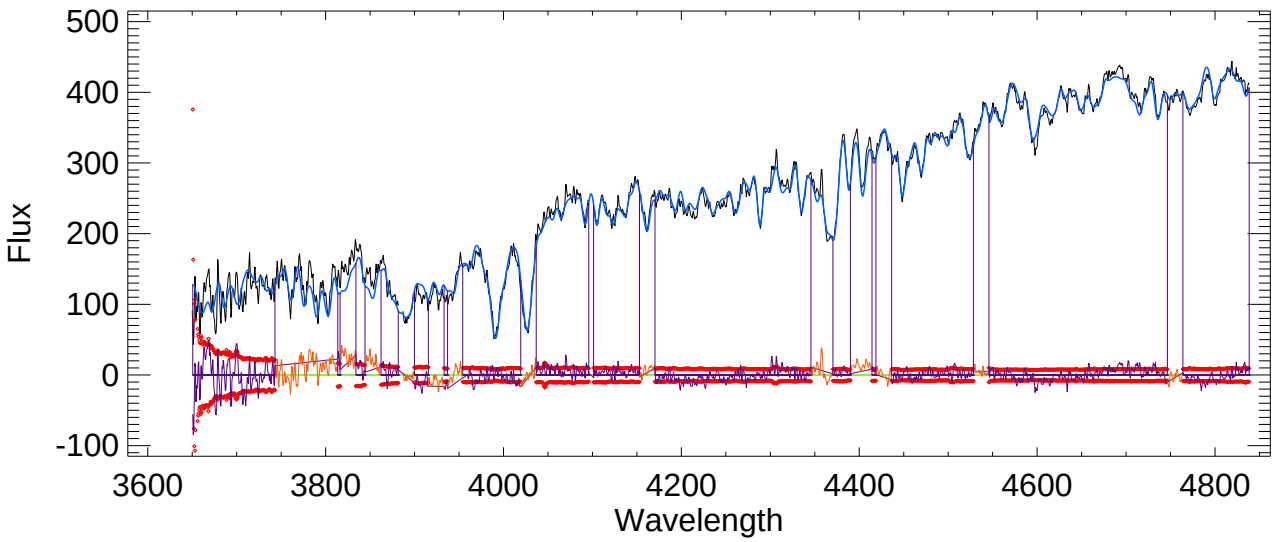

250
200
150
100
50
0
-50
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

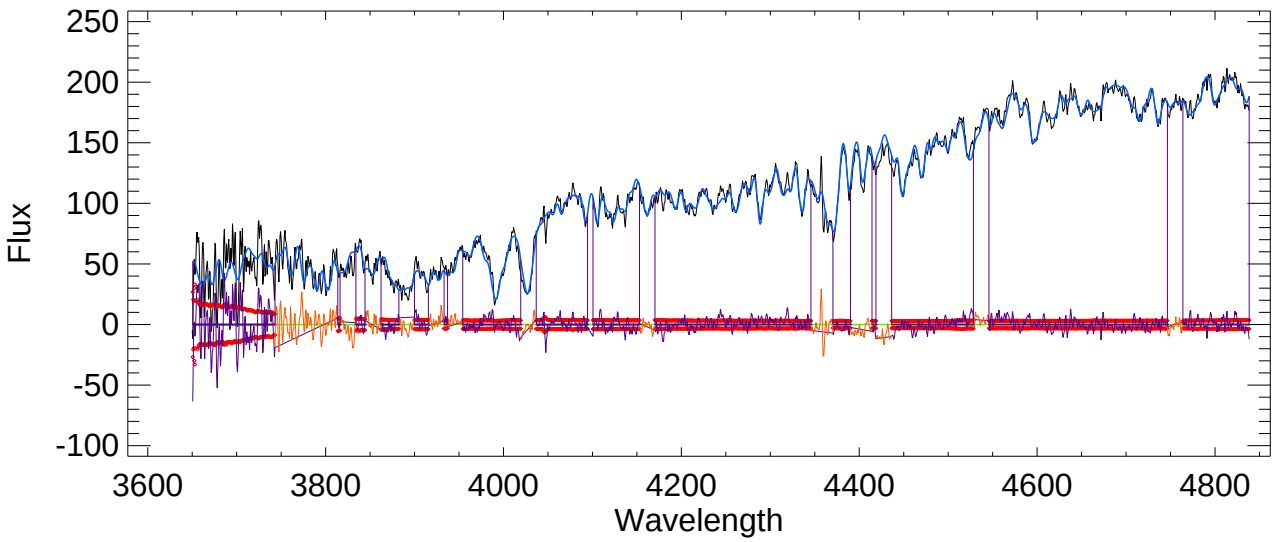

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

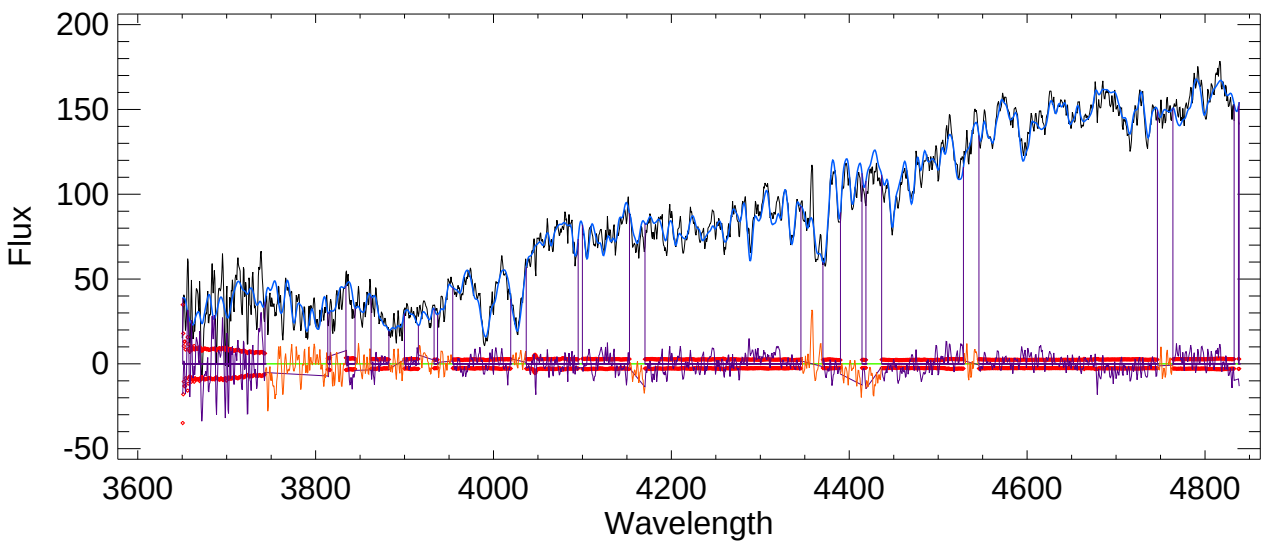

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

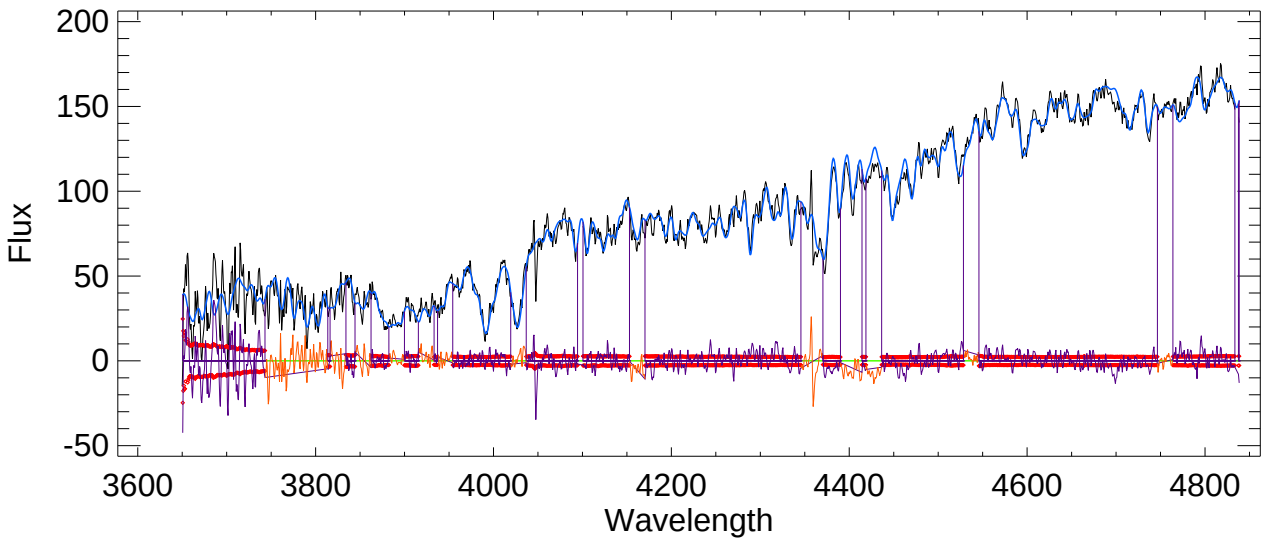

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

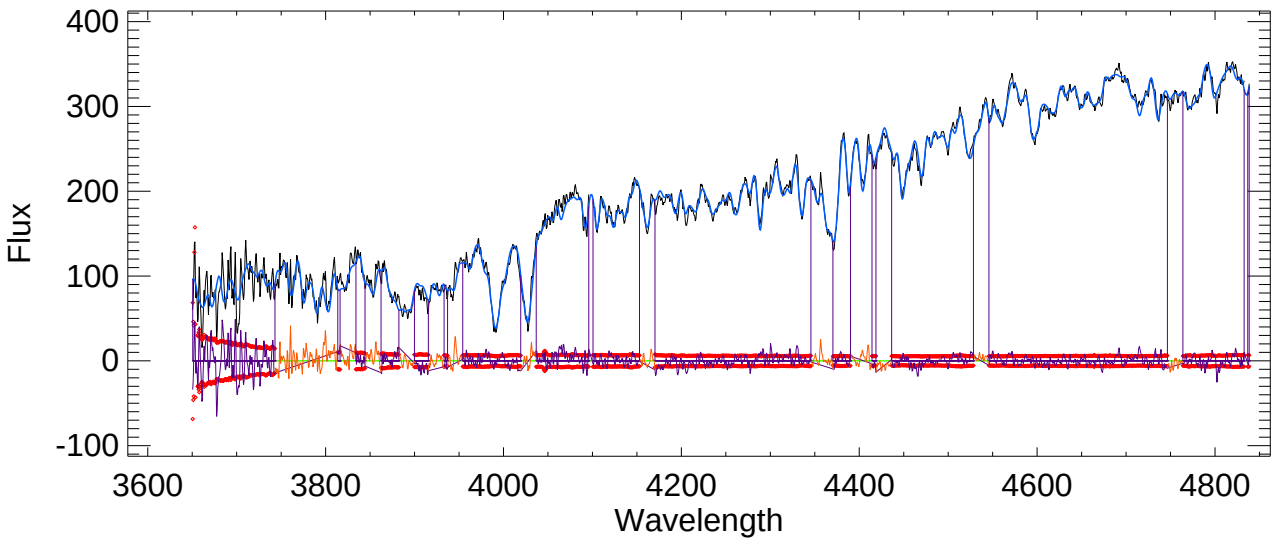

300
200
100
0
-100
-200
-300
Flux
3600
3800
4000
4200
4400
4600
Wavelength

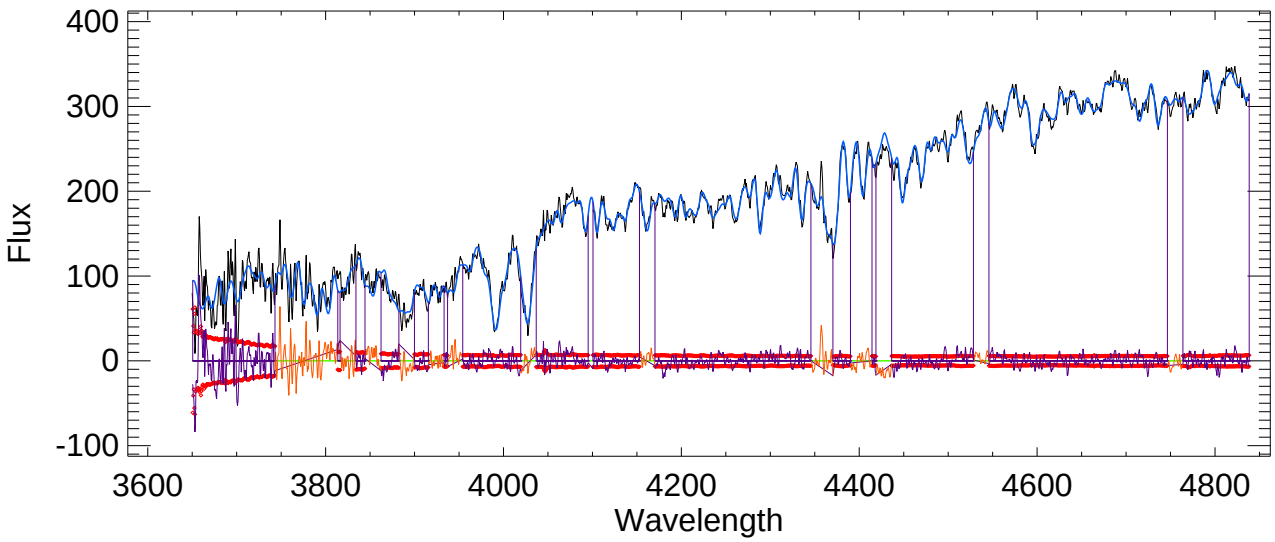

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

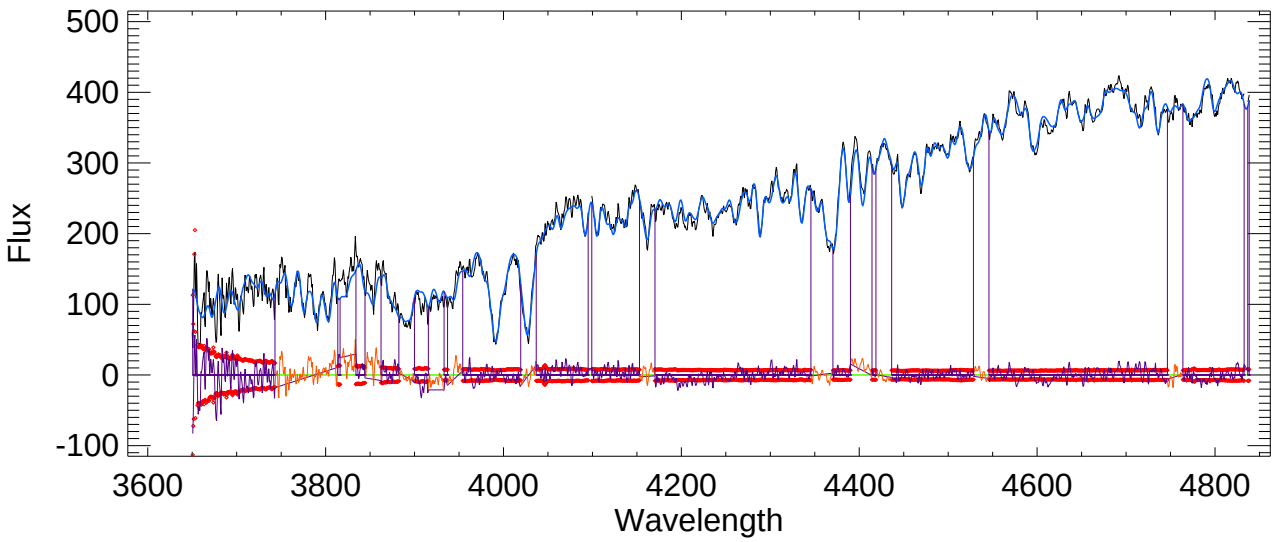

250
200
150
100
50
0
-50
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

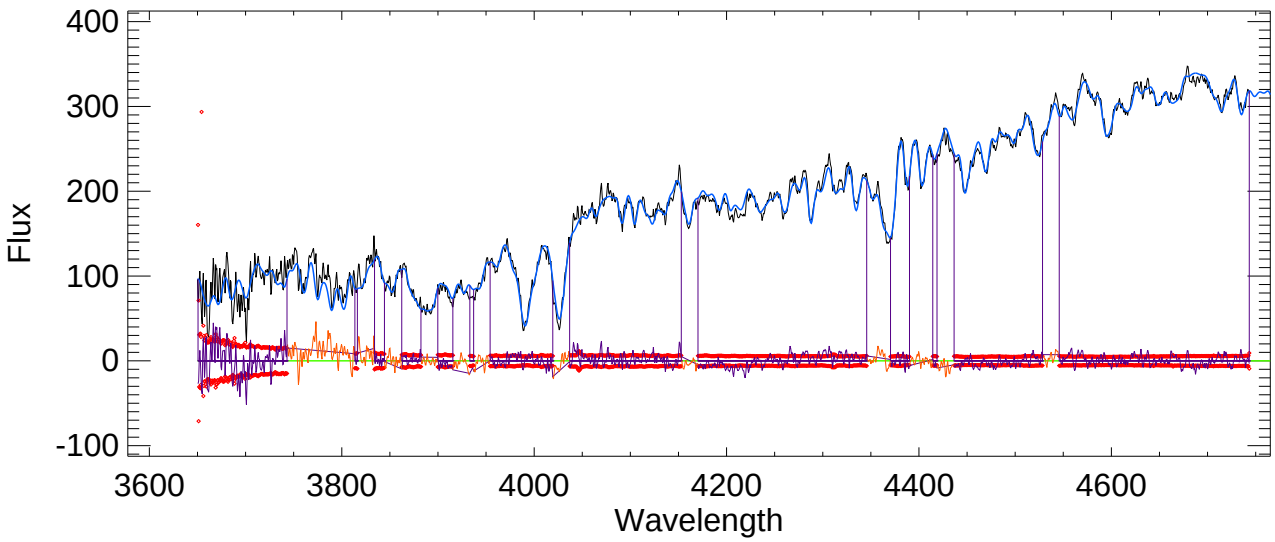

200
150
100
50
0
-50
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

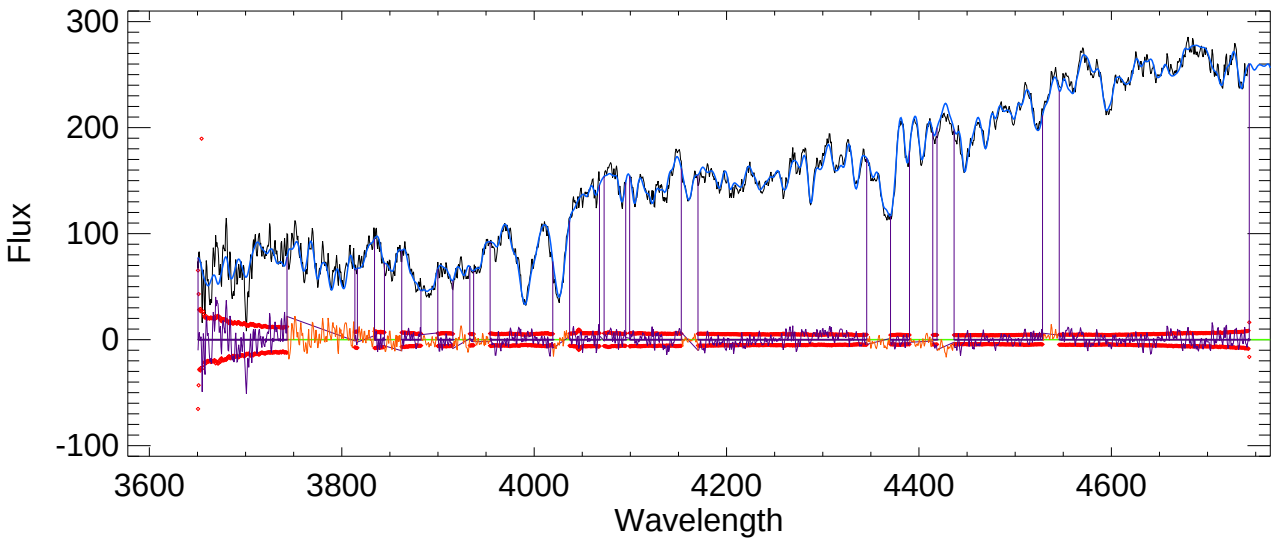

200
150
100
50
0
-50
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

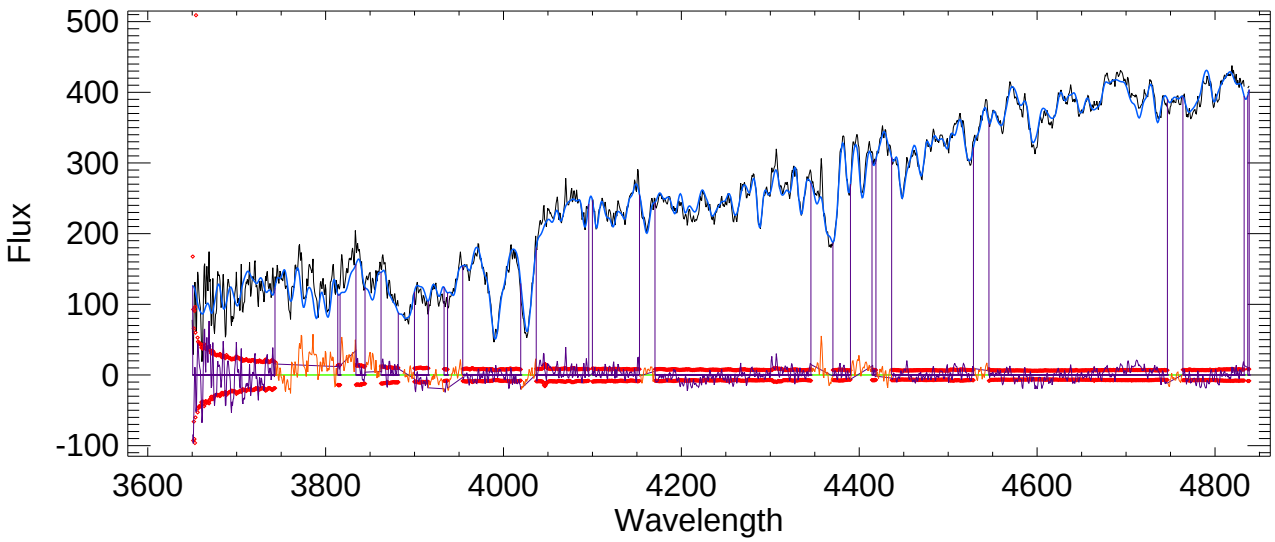

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

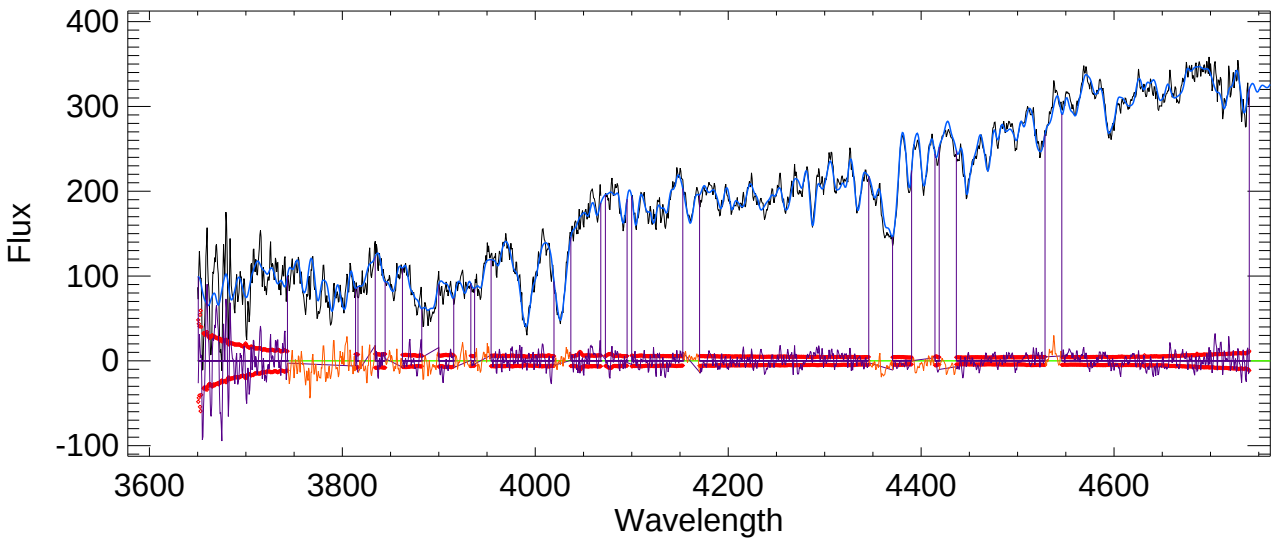

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

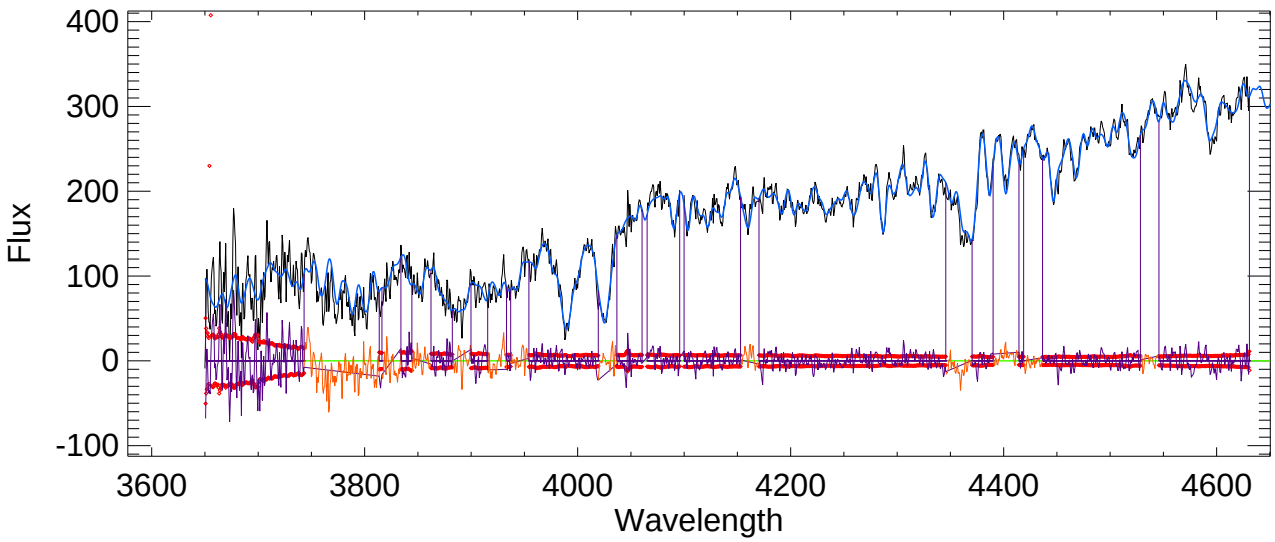

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

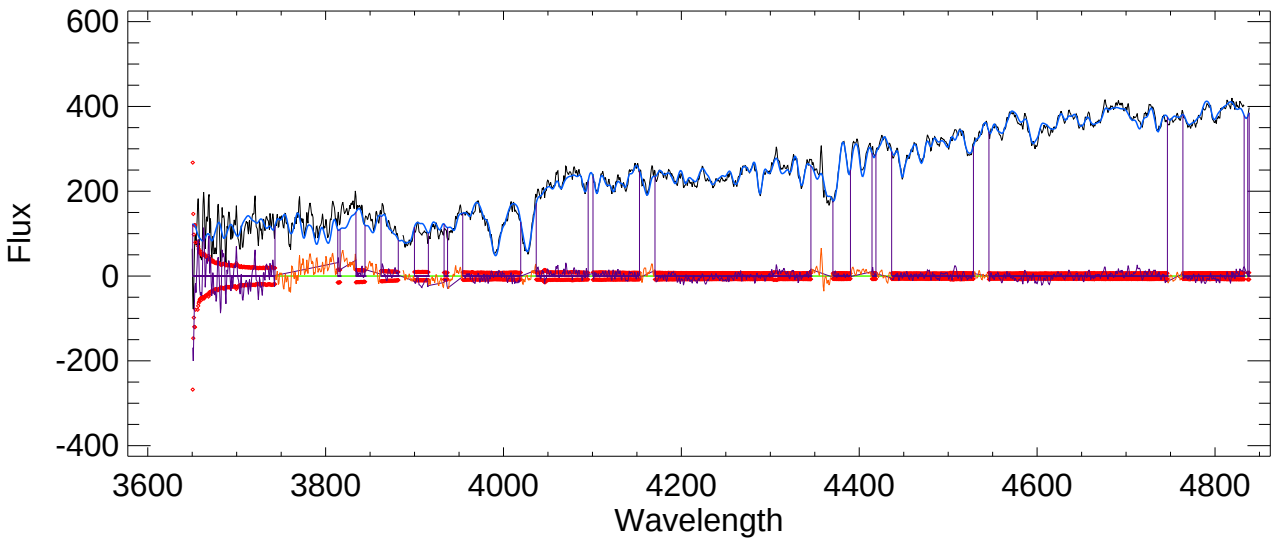

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

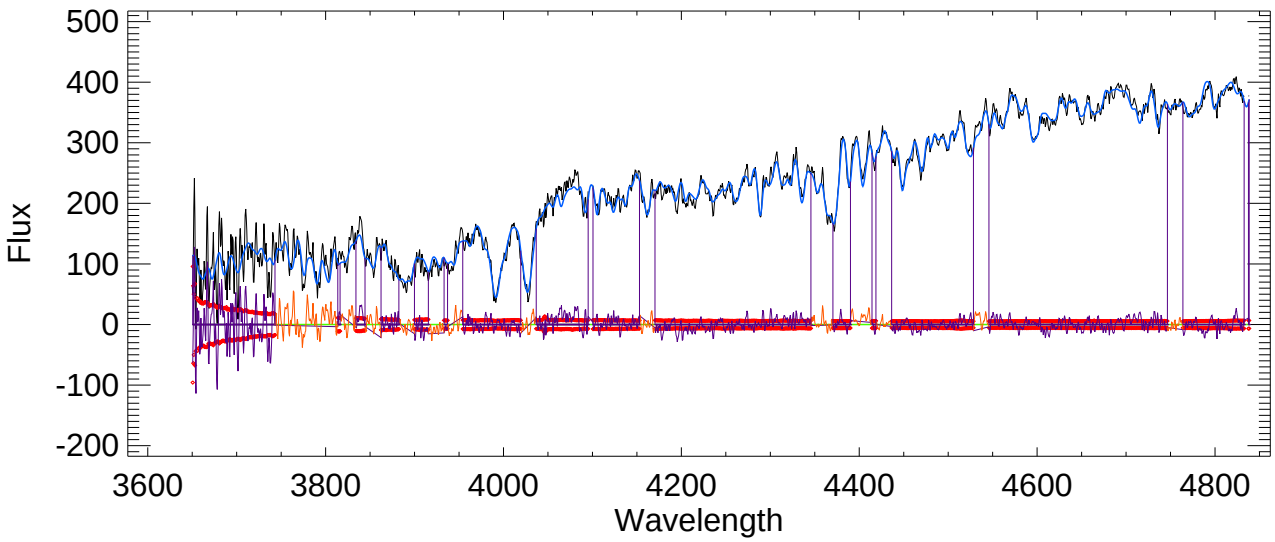

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

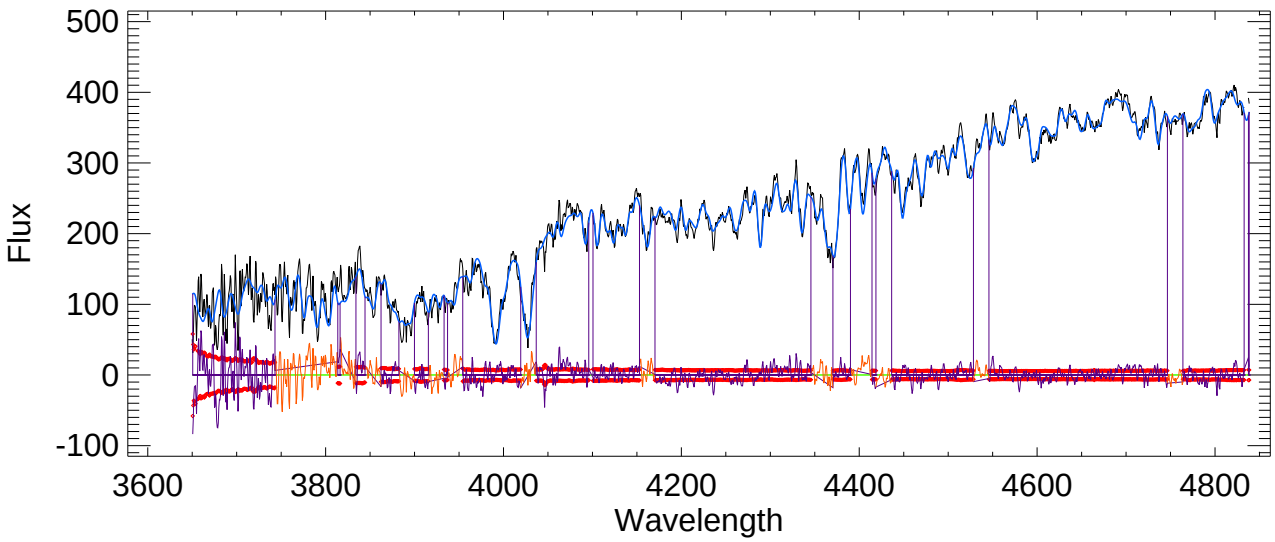

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

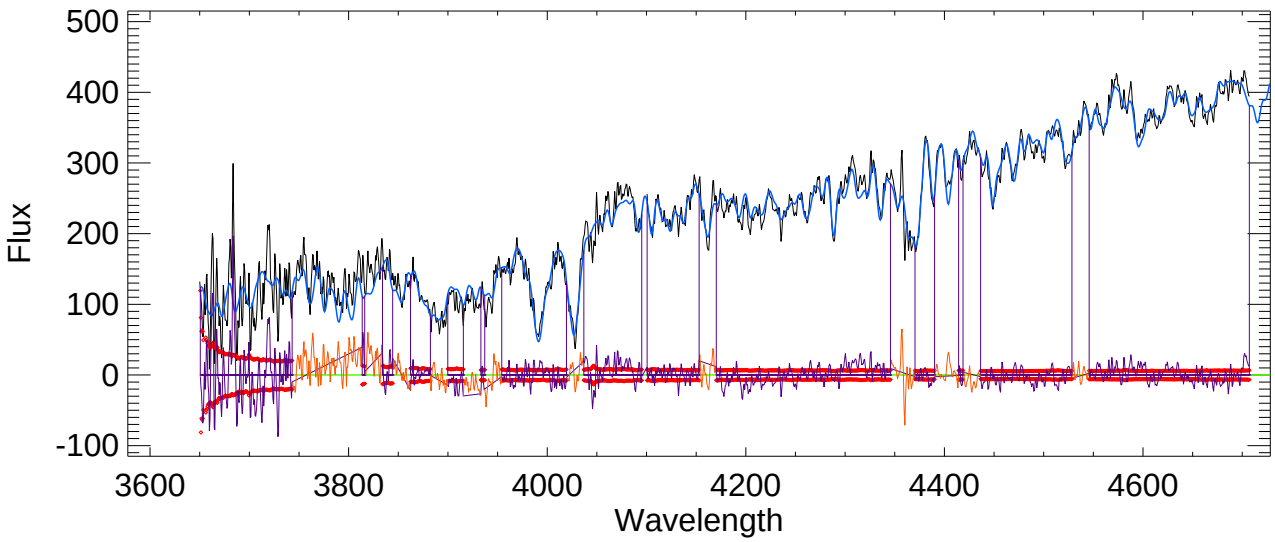

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

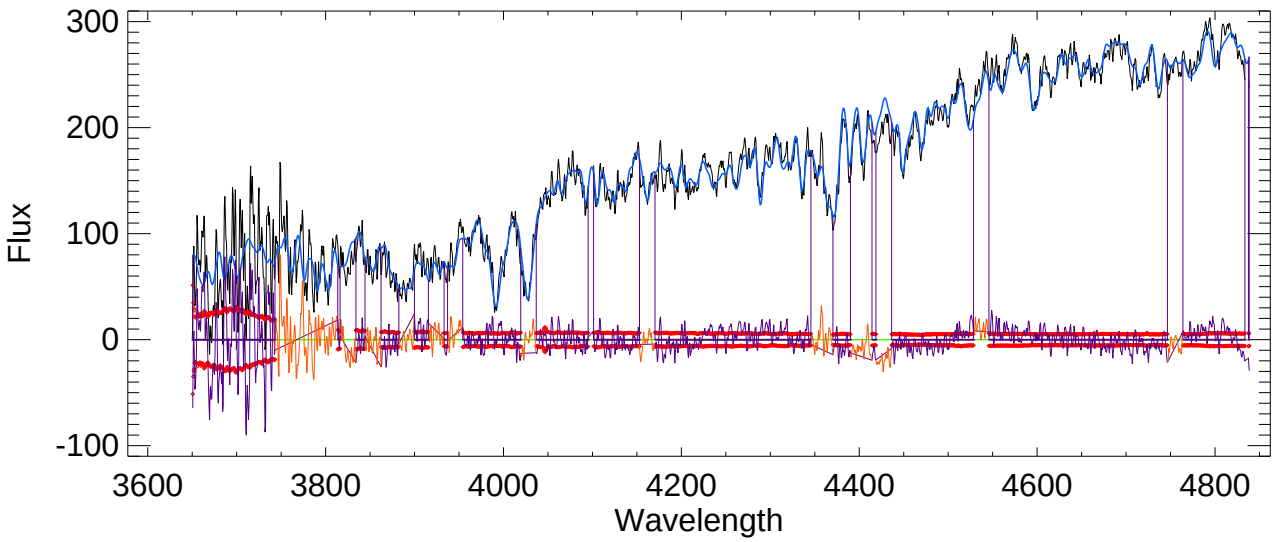

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

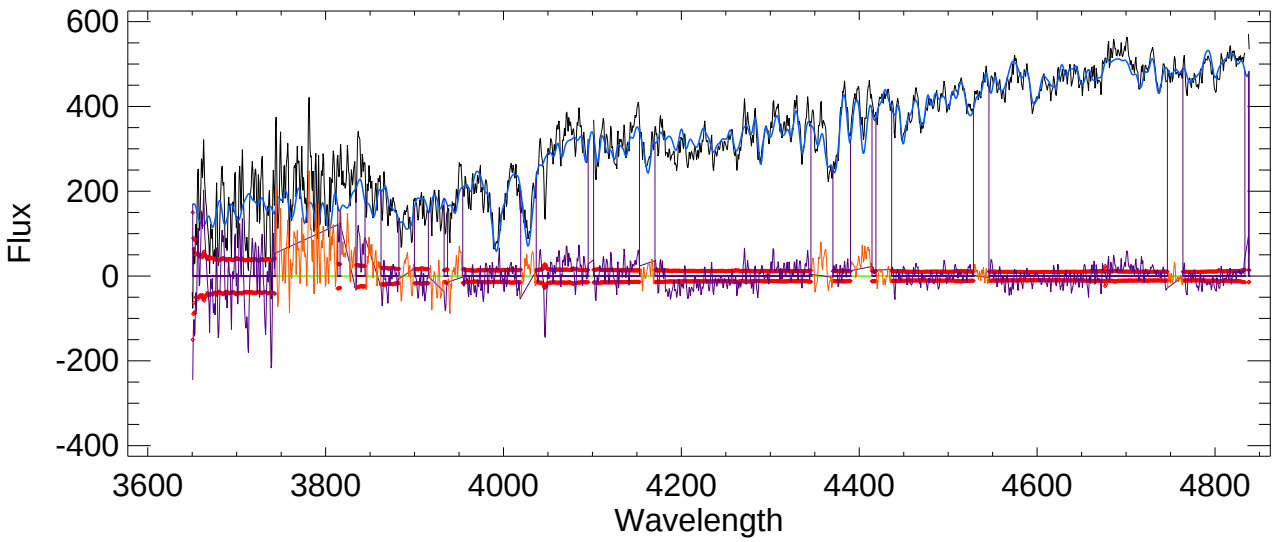

600
400
200
0
-200
-400
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

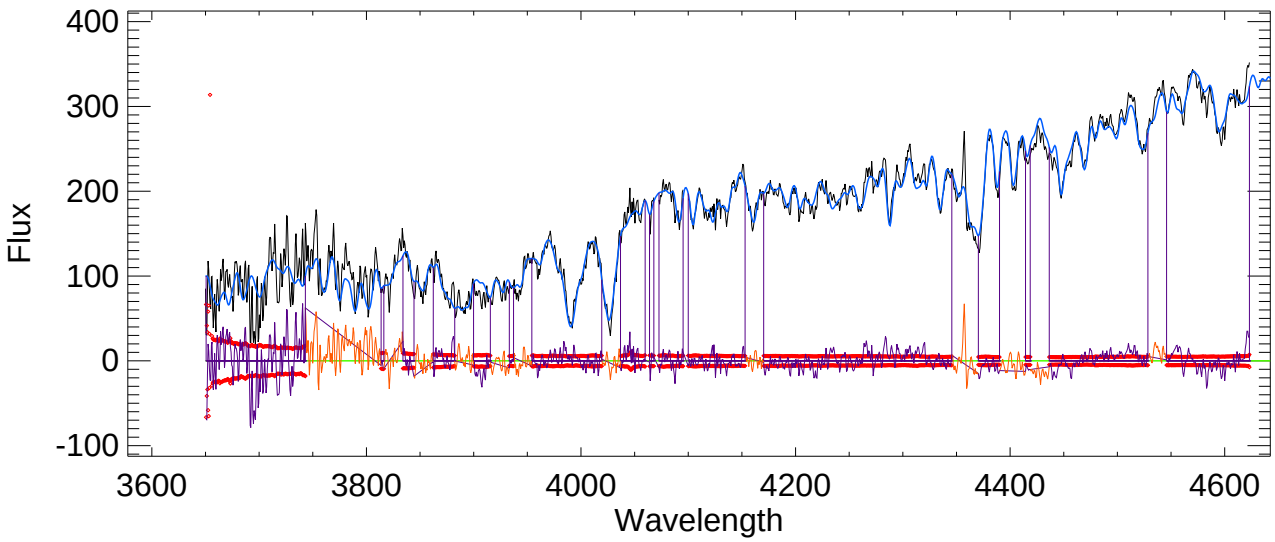

500
400
300
200
100
0
-100
-200
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

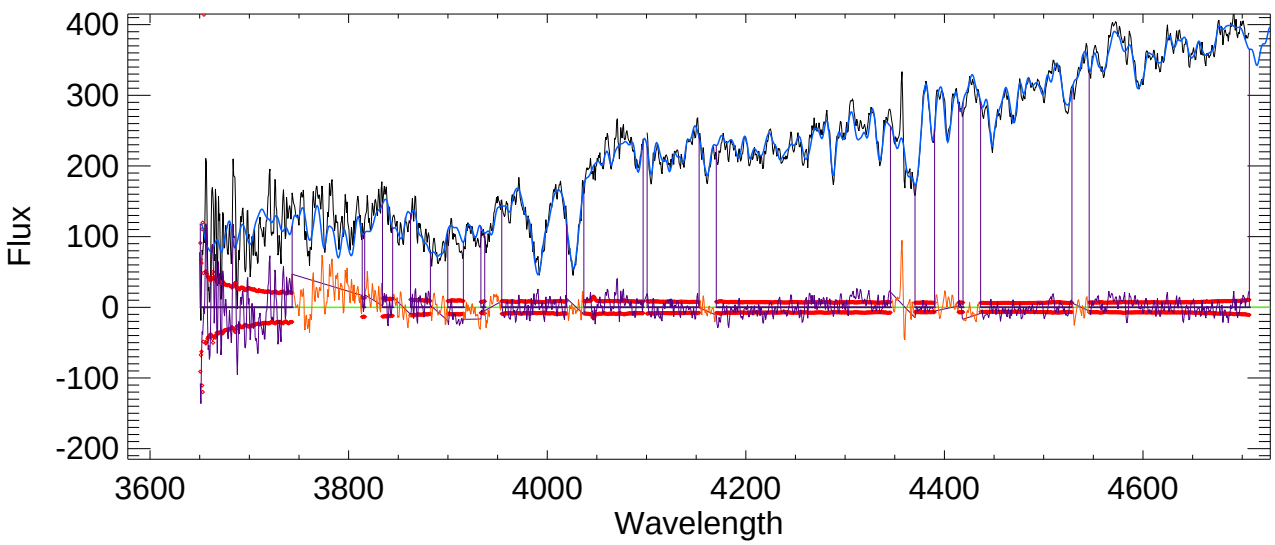

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

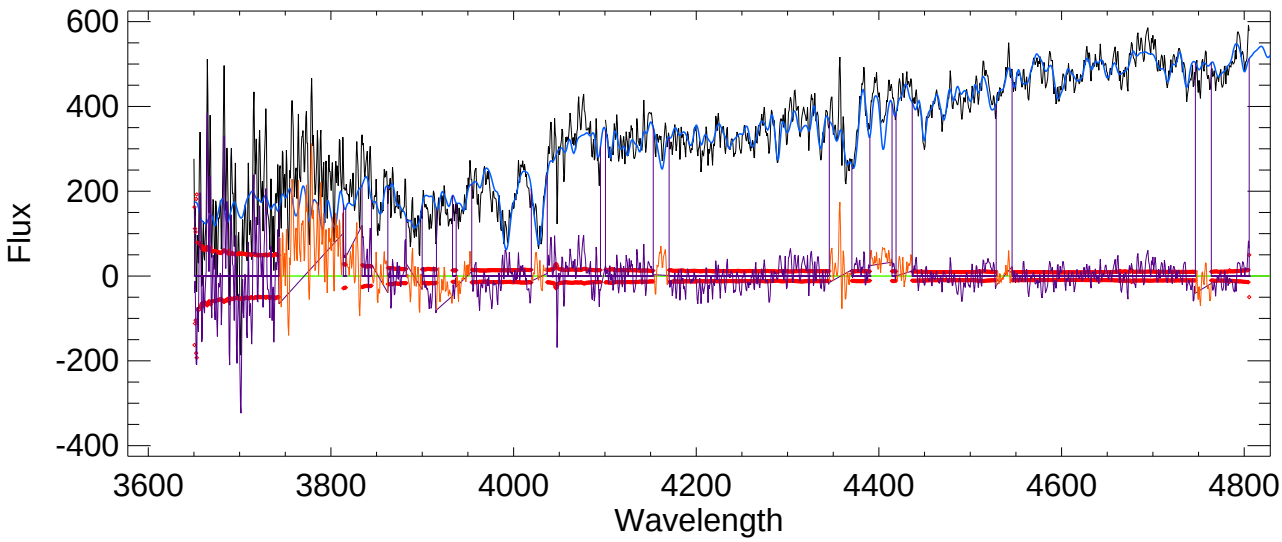

500
400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

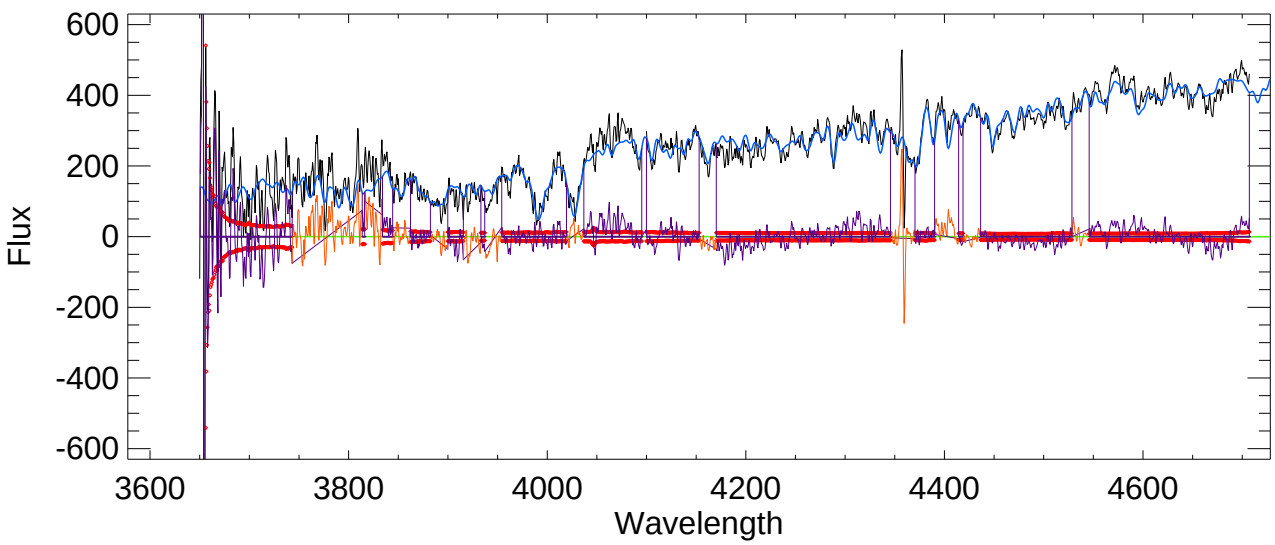

300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

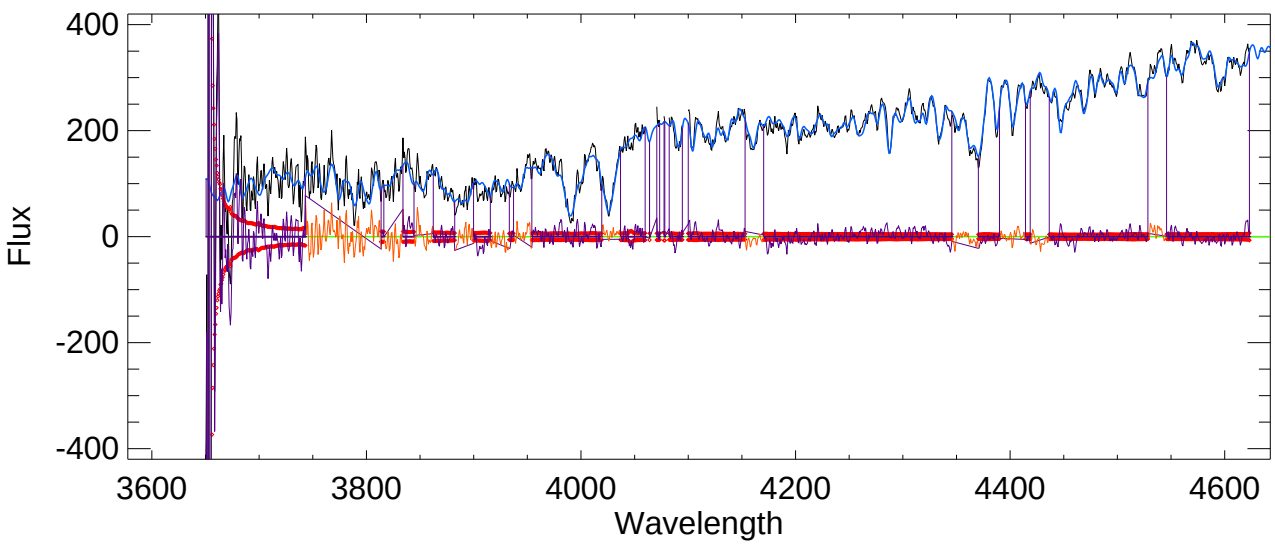

600
400
200
0
-200
-400
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

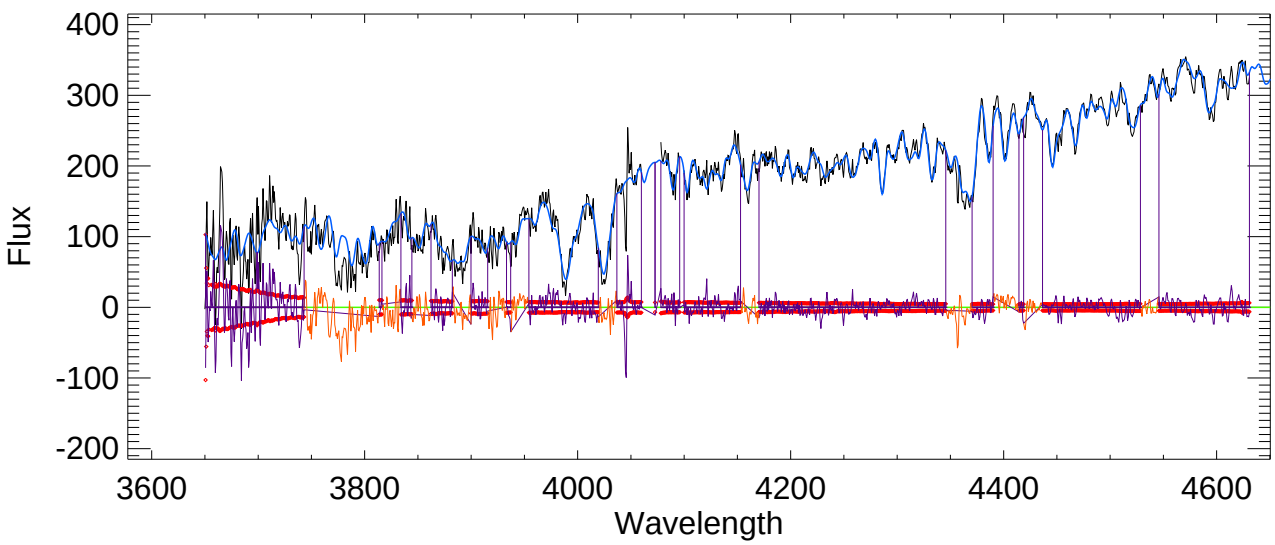

400
300
200
100
0
-100
Flux
3600
3800
4000
4200
4400
4600
Wavelength

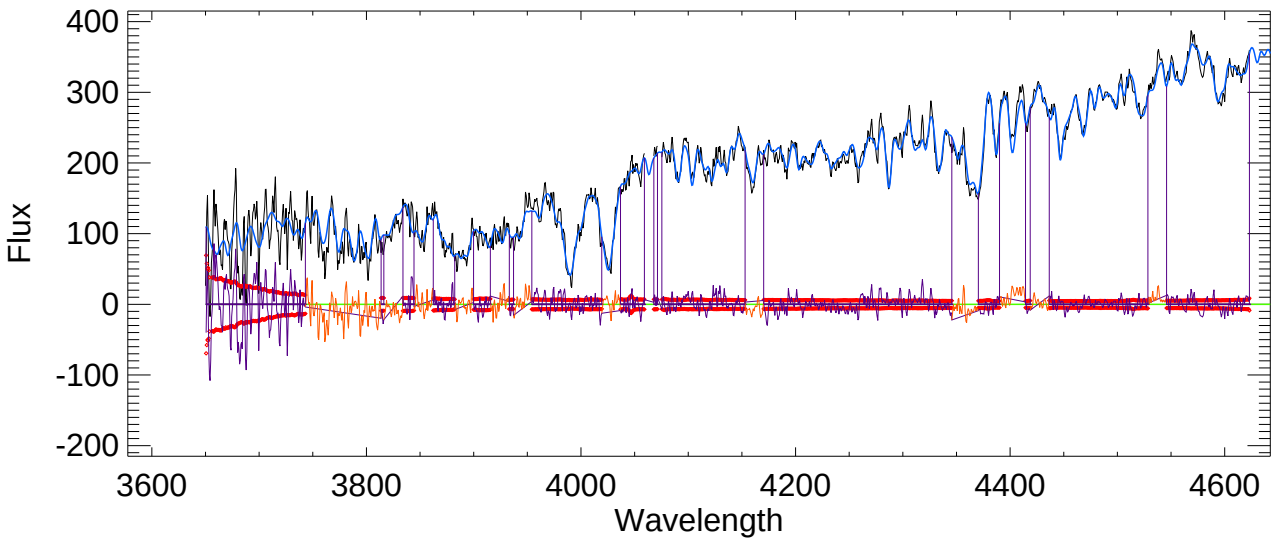

400
300
200
100
0
-100
-200
Flux
3600
3800
4000
4200
4400
4600
Wavelength

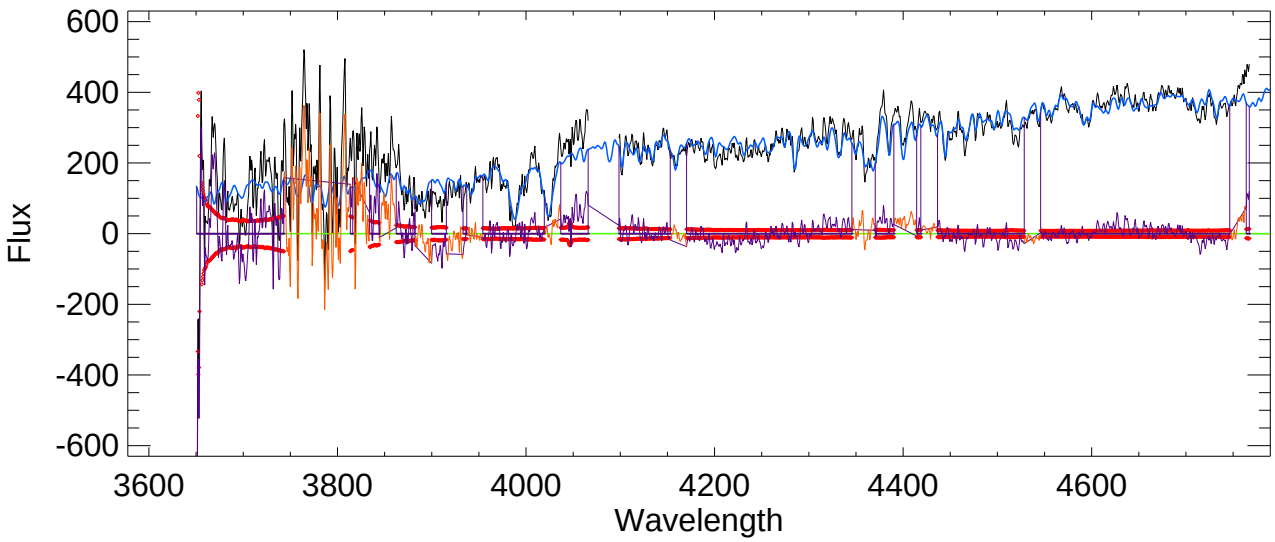

600
400
200
0
-200
-400
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

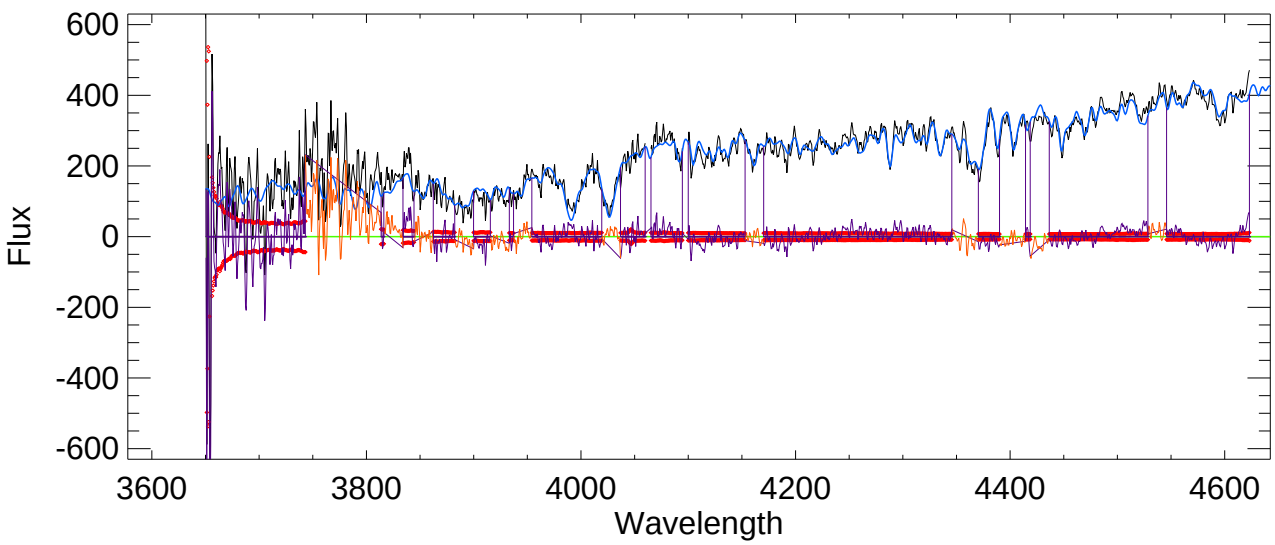

600
400
200
0
-200
-400
-600
Flux
3600
3800
4000
4200
4400
4600
Wavelength

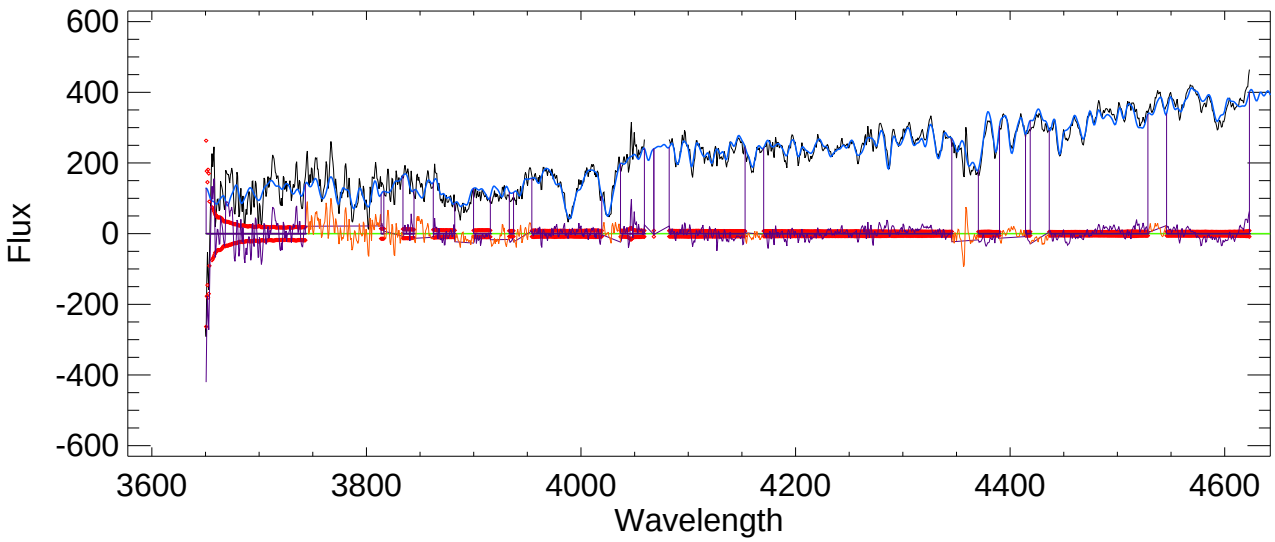

400
200
0
-200
-400
Flux
3600
3800
4000
4200
4400
4600
Wavelength

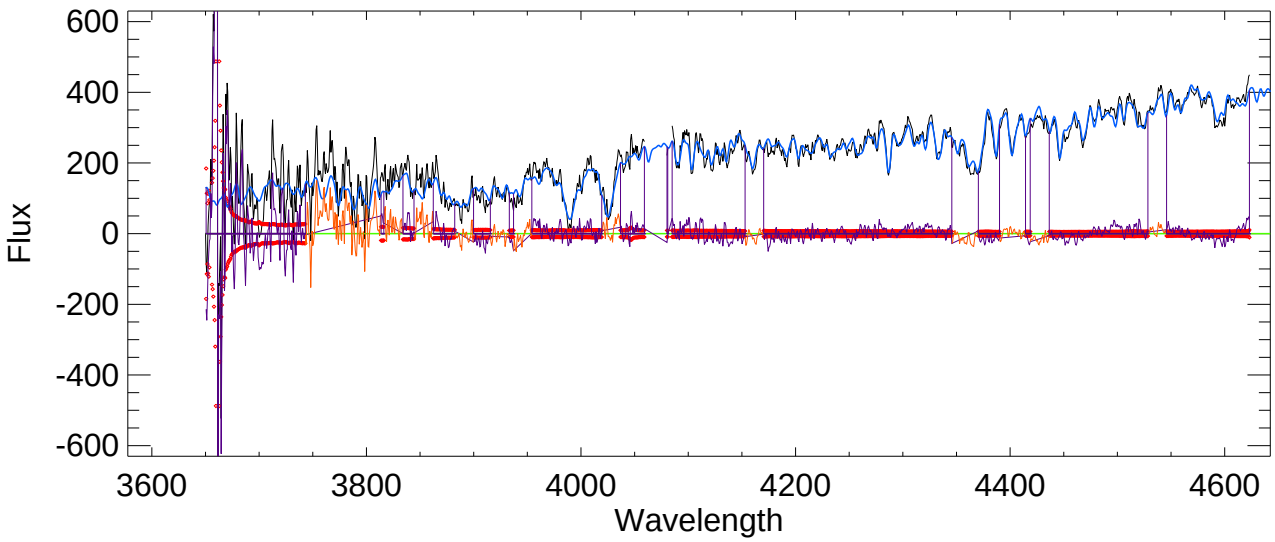

400
300
200
100
0
-100
-200
Flux
3600
3800
4000
4200
4400
4600
Wavelength

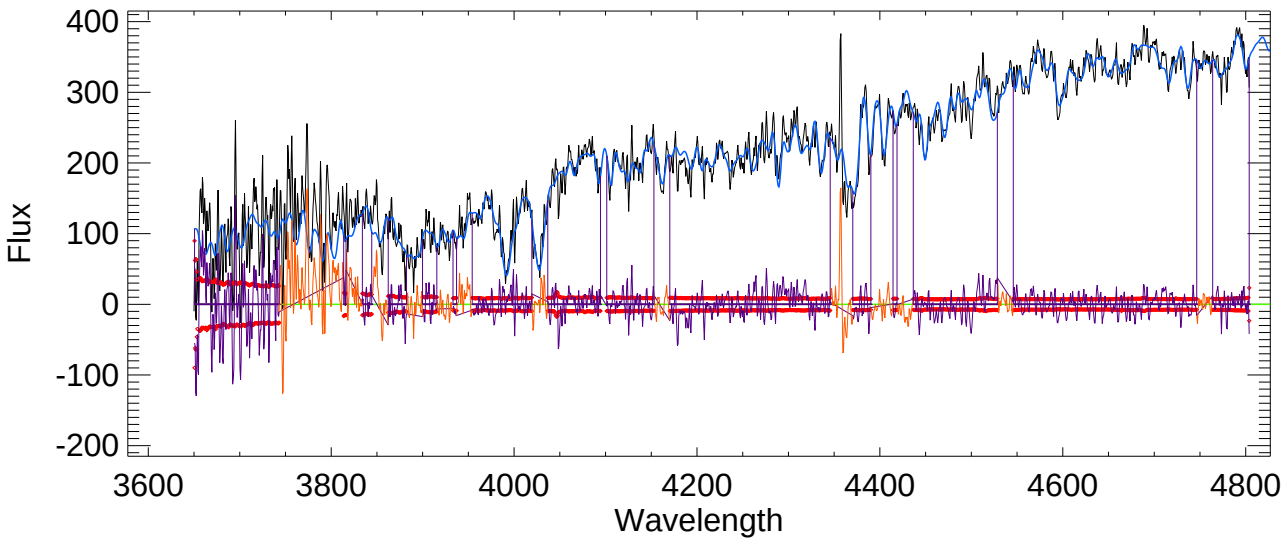

400
300
200
100
0
-100
-200
Flux
3600
3800
4000
4200
4400
4600
Wavelength

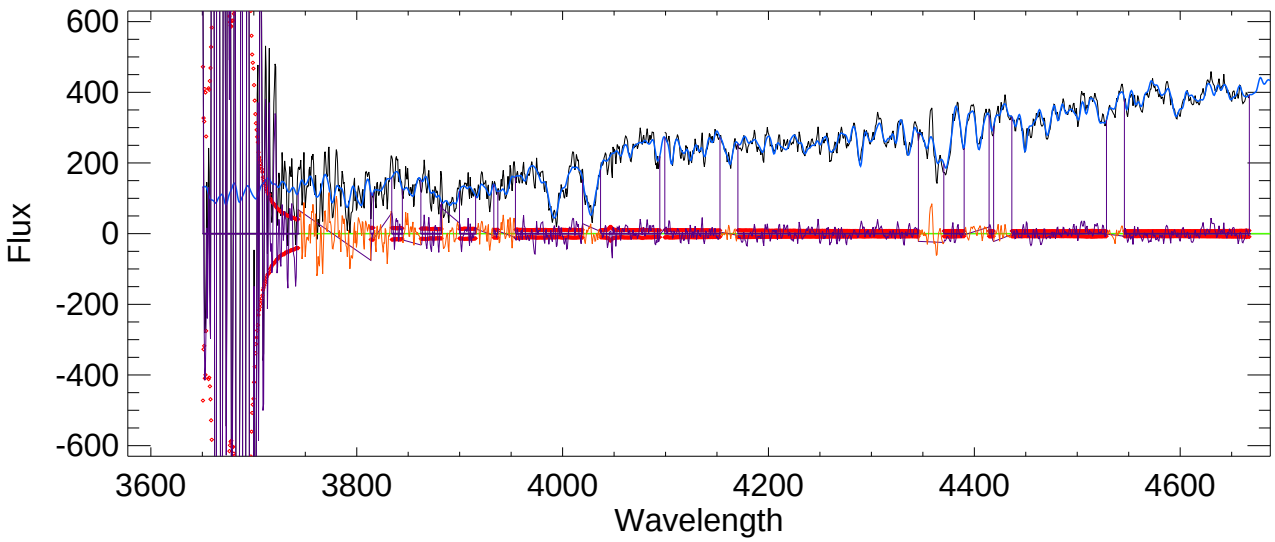

600
400
200
0
-200
-400
-600
Flux
3600
3800
4000
4200
4400
4600
Wavelength

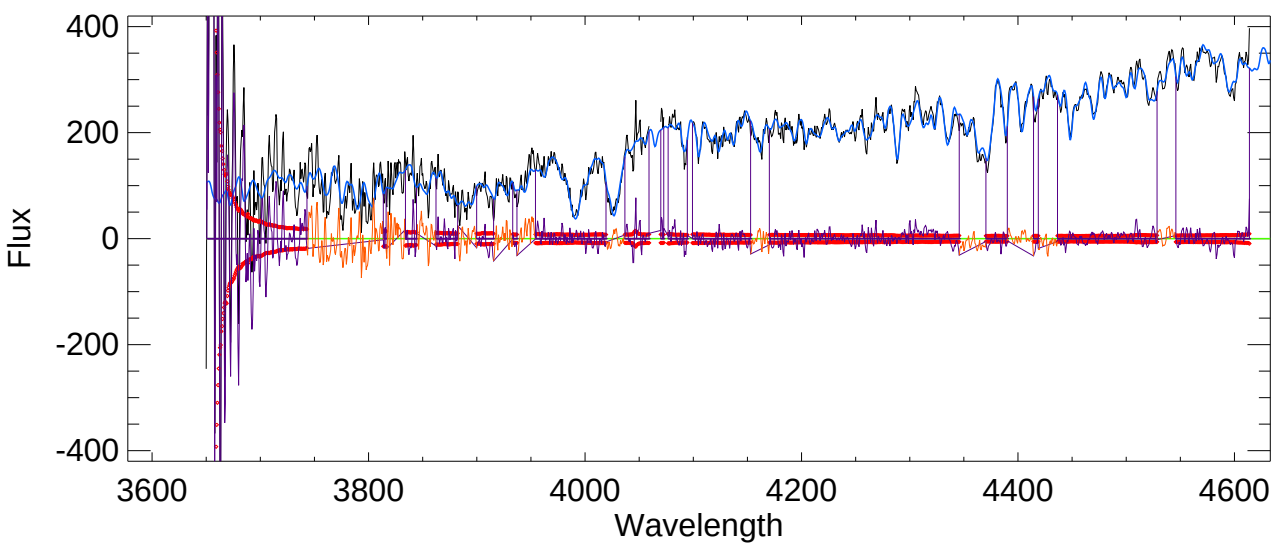

600
400
200
0
-200
-400
-600
Flux
3600
3800
4000
4200
4400
4600
Wavelength

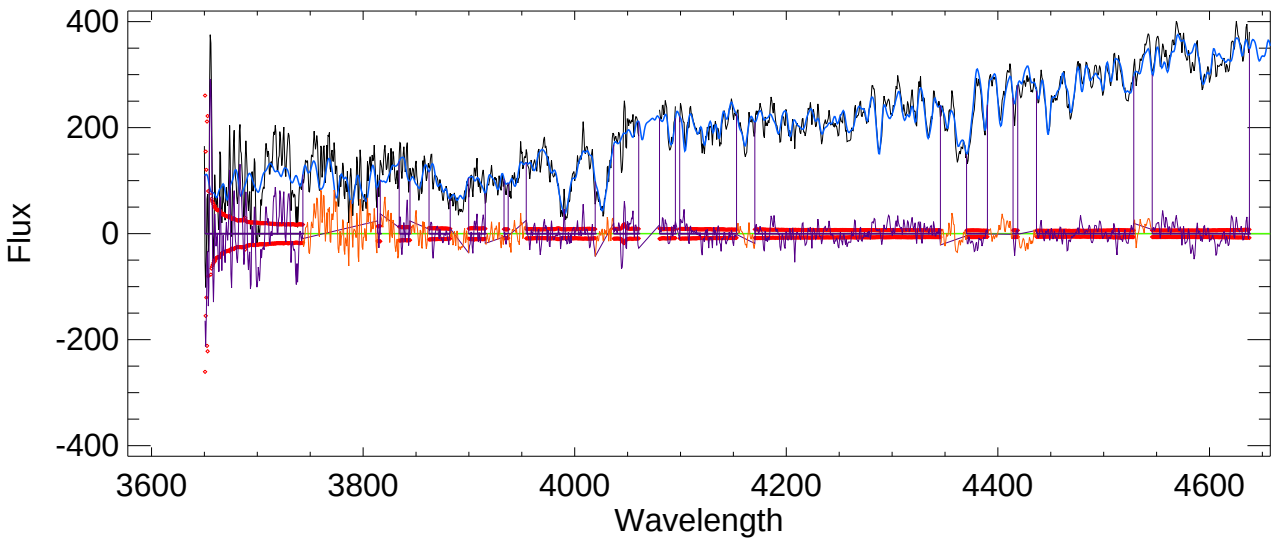

600
400
200
0
-200
-400
-600
Flux
3600
3800
4000
4200
4400
4600
Wavelength

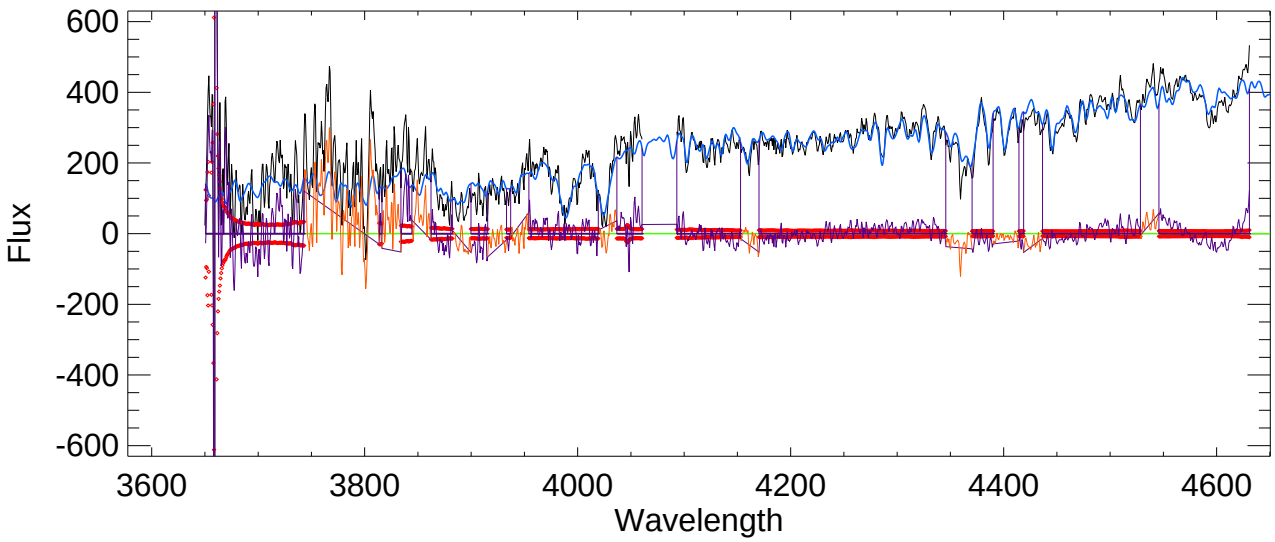

600
400
200
0
-200
-400
-600
Flux
3600
3800
4000
4200
4400
4600
Wavelength

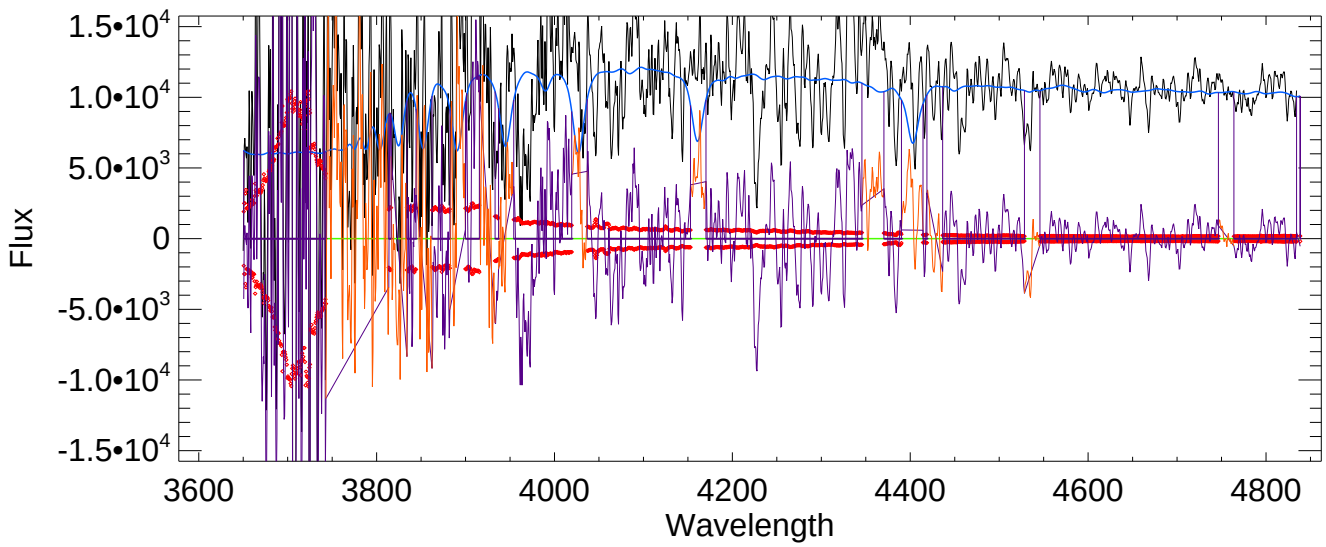

400
300
200
100
0
-100
-200
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

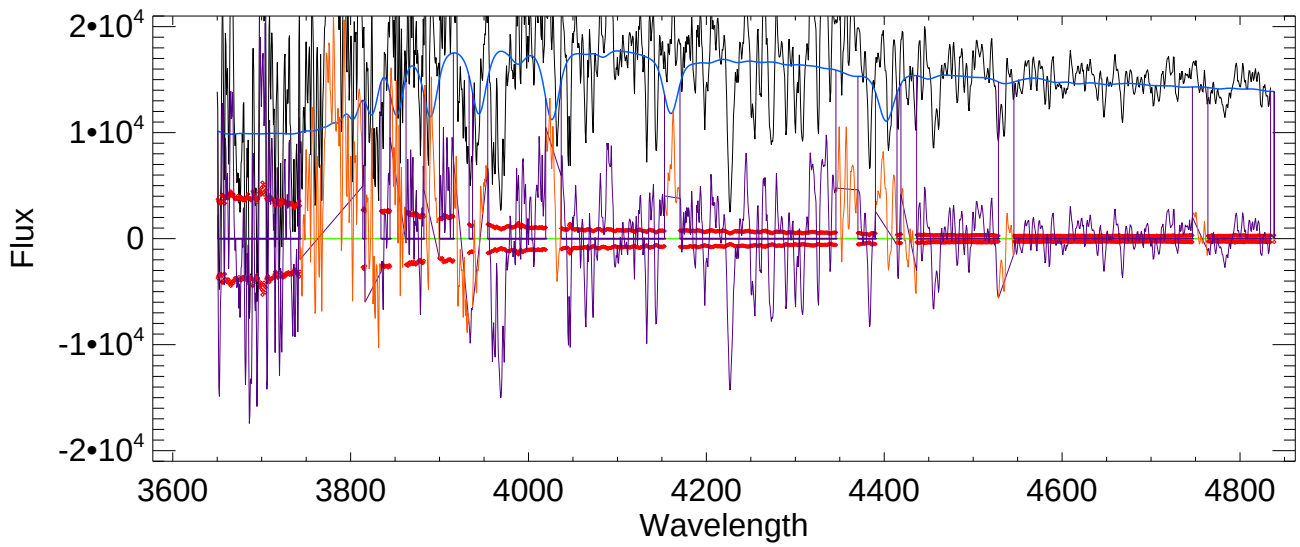

600
400
200
0
-200
-400
-600
Flux
3600
3800
4000
4200
4400
4600
Wavelength

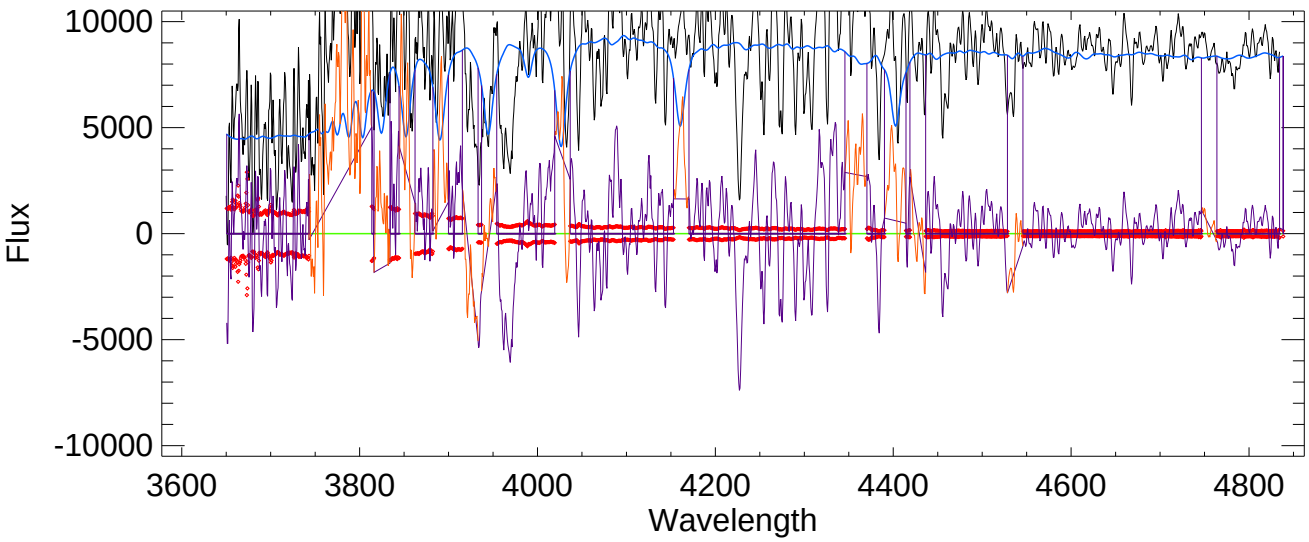

400
200
0
-200
-400
Flux
3600
3800
4000
4200
4400
4600
Wavelength

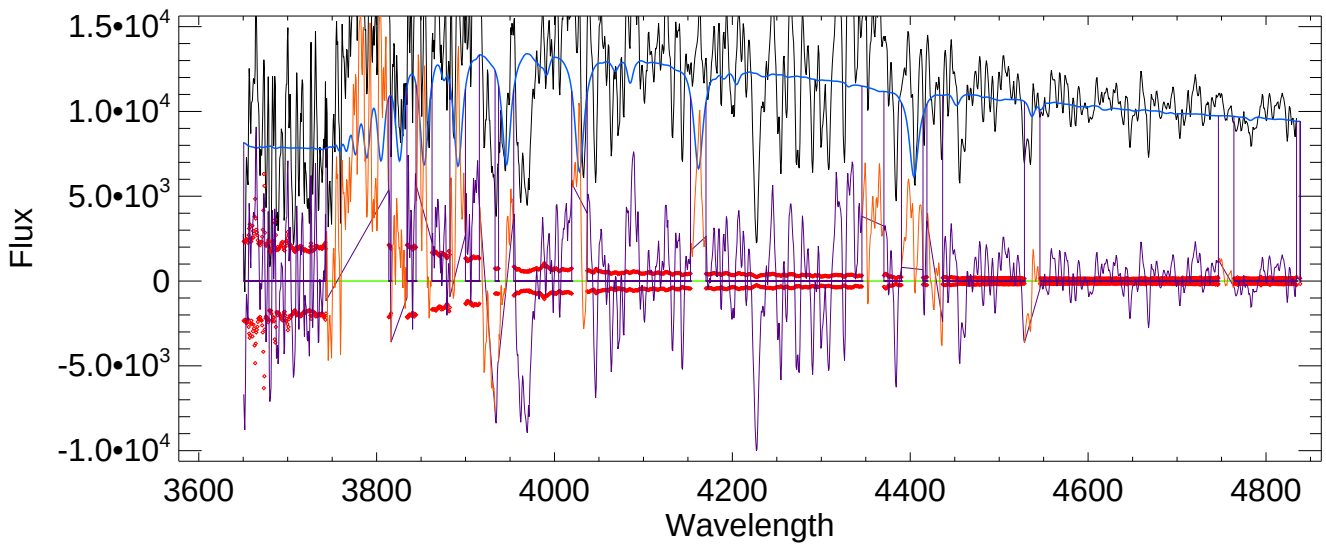

400
200
0
-200
-400
Flux
3600
3800
4000
4200
4400
4600
Wavelength

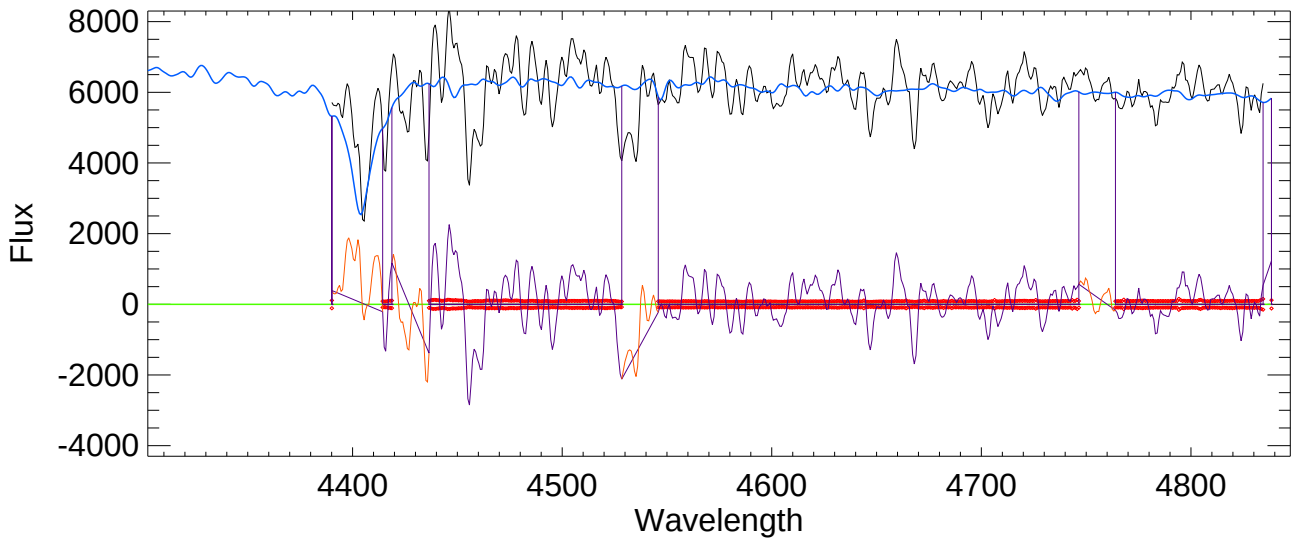

600
400
200
0
-200
-400
-600
Flux
3600
3800
4000
4200
4400
4600
Wavelength

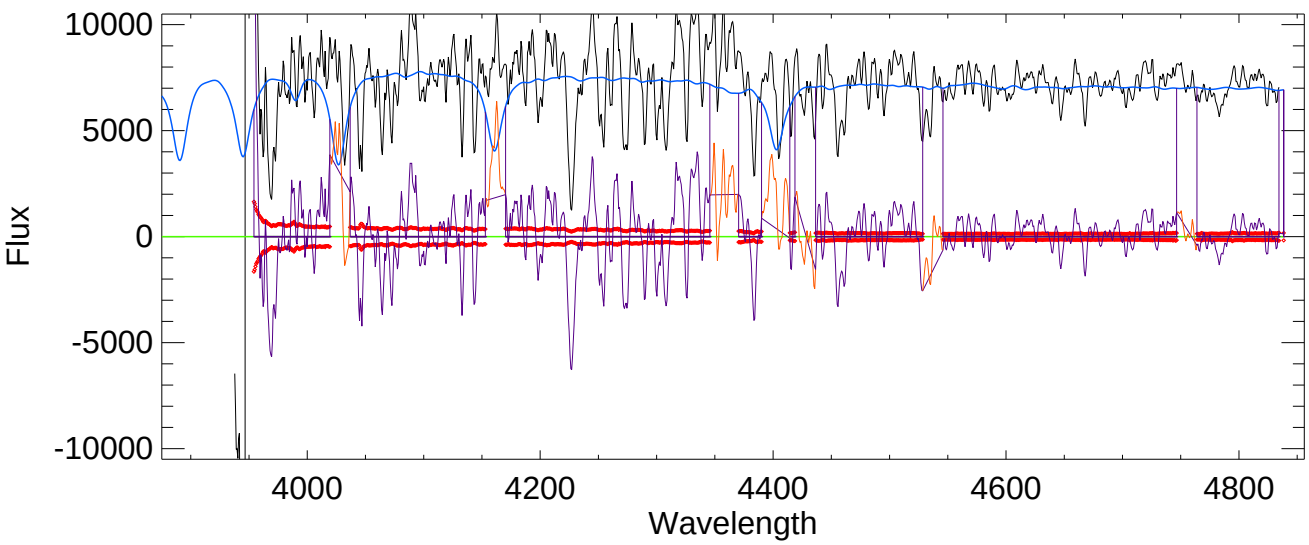

1.5•10^4
1.0•10^4
5.0•10^3
0
-5.0•10^3
-1.0•10^4
-1.5•10^4
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength

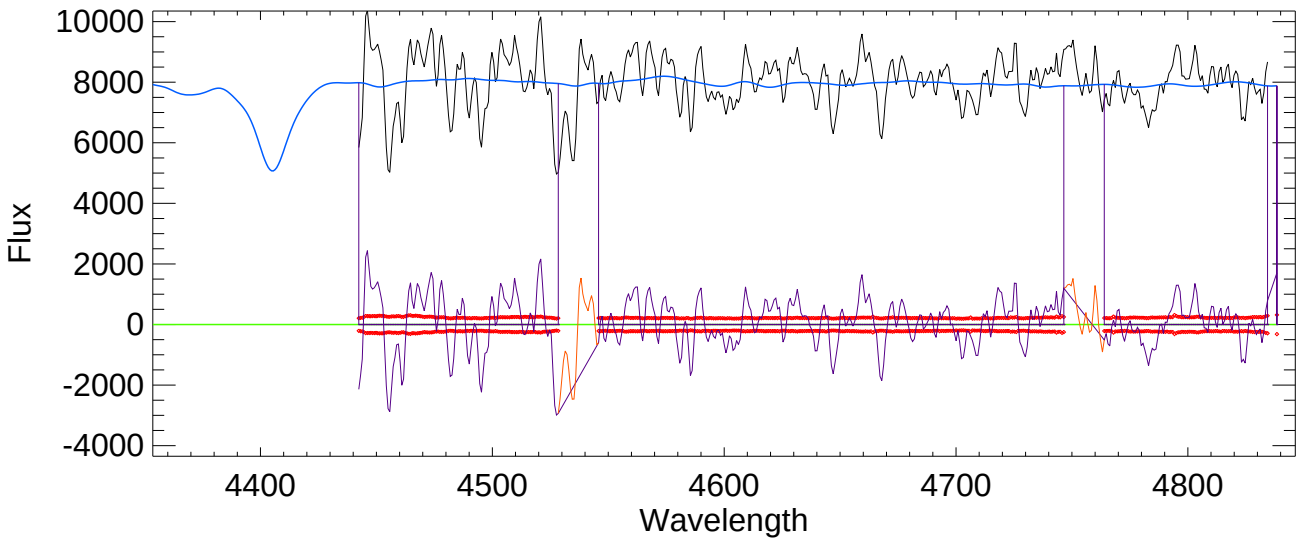

2•10^4
1•10^4
0
-1•10^4
-2•10^4
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength


10000
5000
0
-5000
-10000
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength


1.5•10^4
1.0•10^4
5.0•10^3
0
-5.0•10^3
-1.0•10^4
Flux
3600
3800
4000
4200
4400
4600
4800
Wavelength


8000
6000
4000
2000
0
-2000
-4000
Flux
4400
4500
4600
4700
4800
Wavelength


10000
5000
0
-5000
-10000
Flux
4000
4200
4400
4600
4800
Wavelength


10000
8000
6000
4000
2000
0
-2000
-4000
Flux
4400
4500
4600
4700
4800
Wavelength