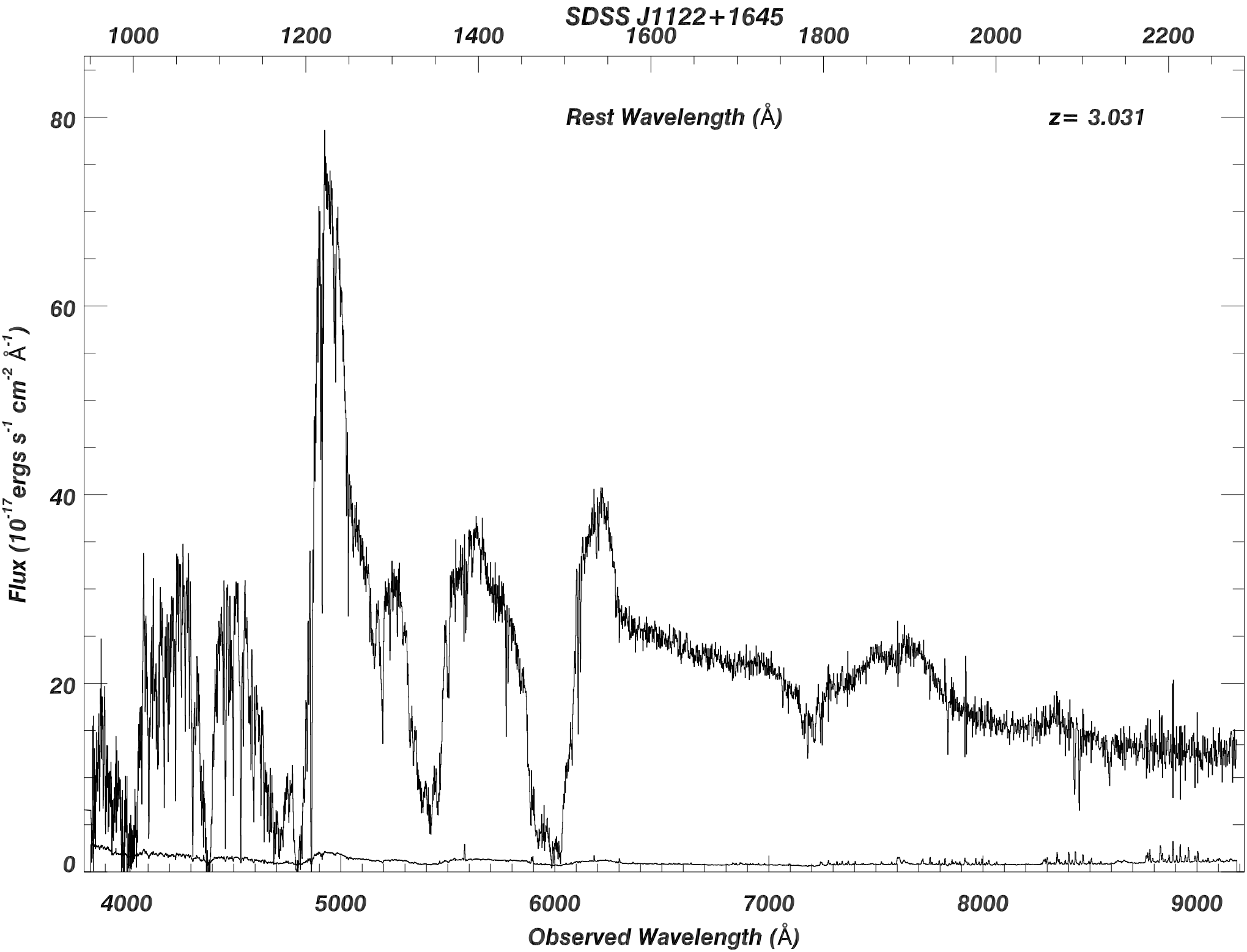
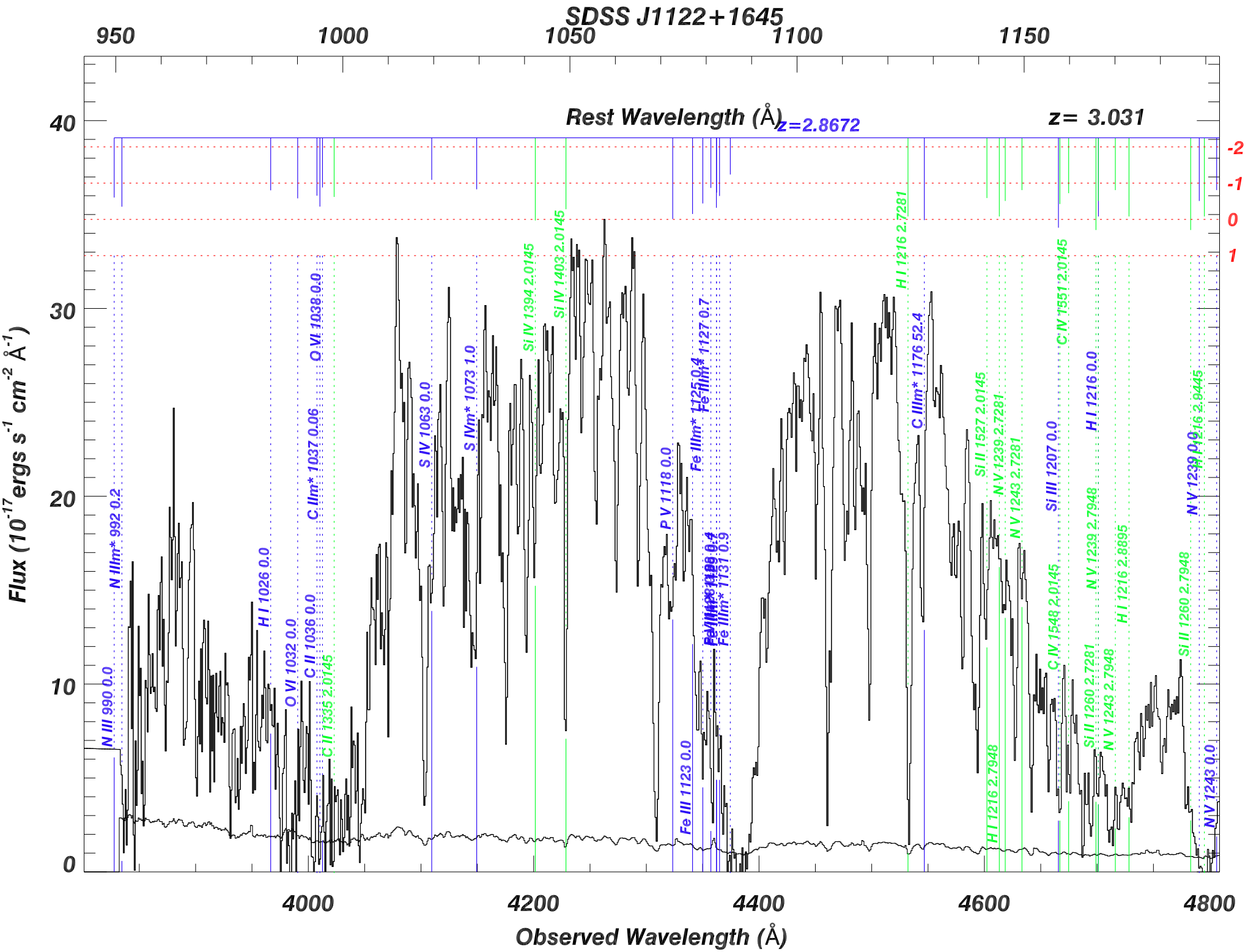
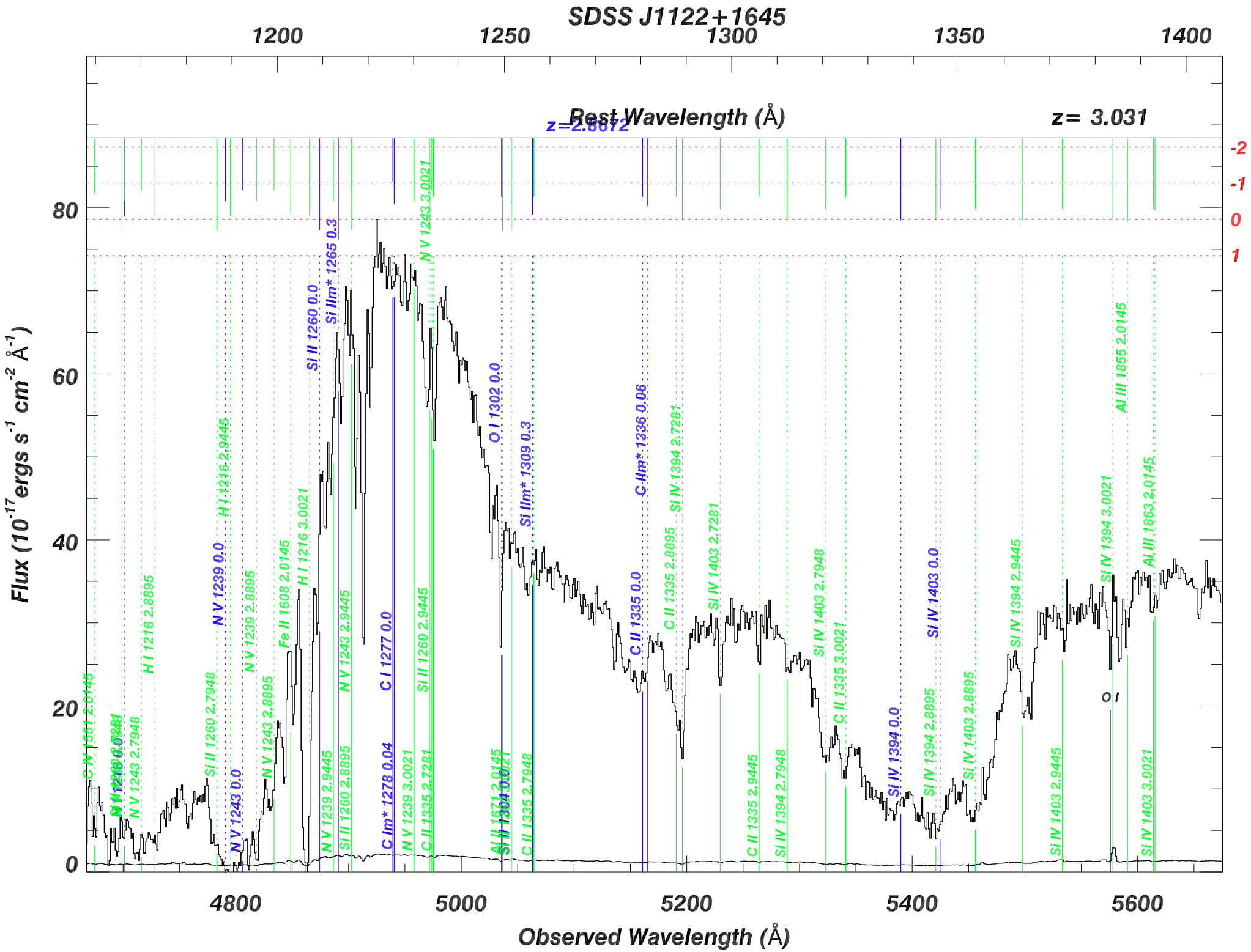
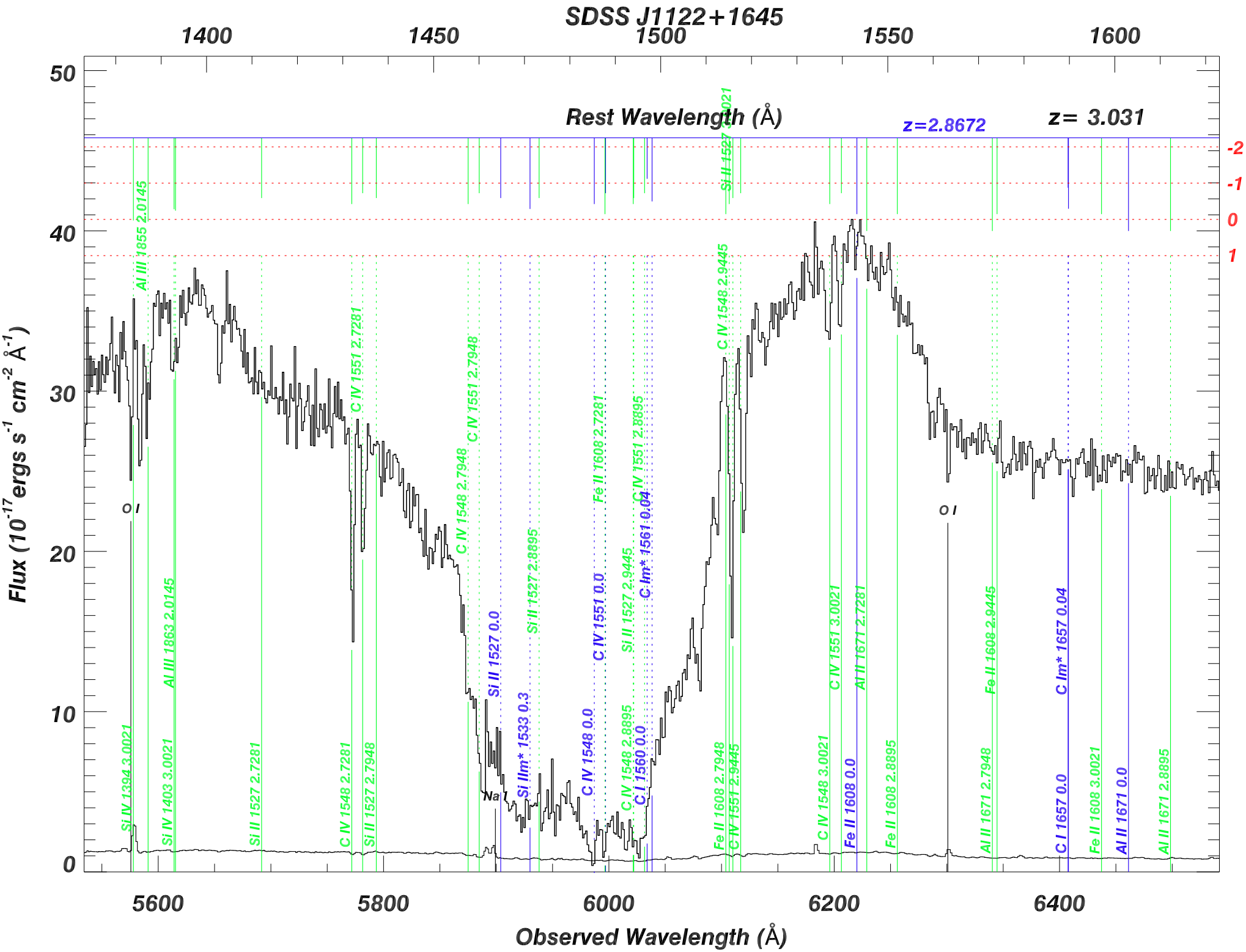
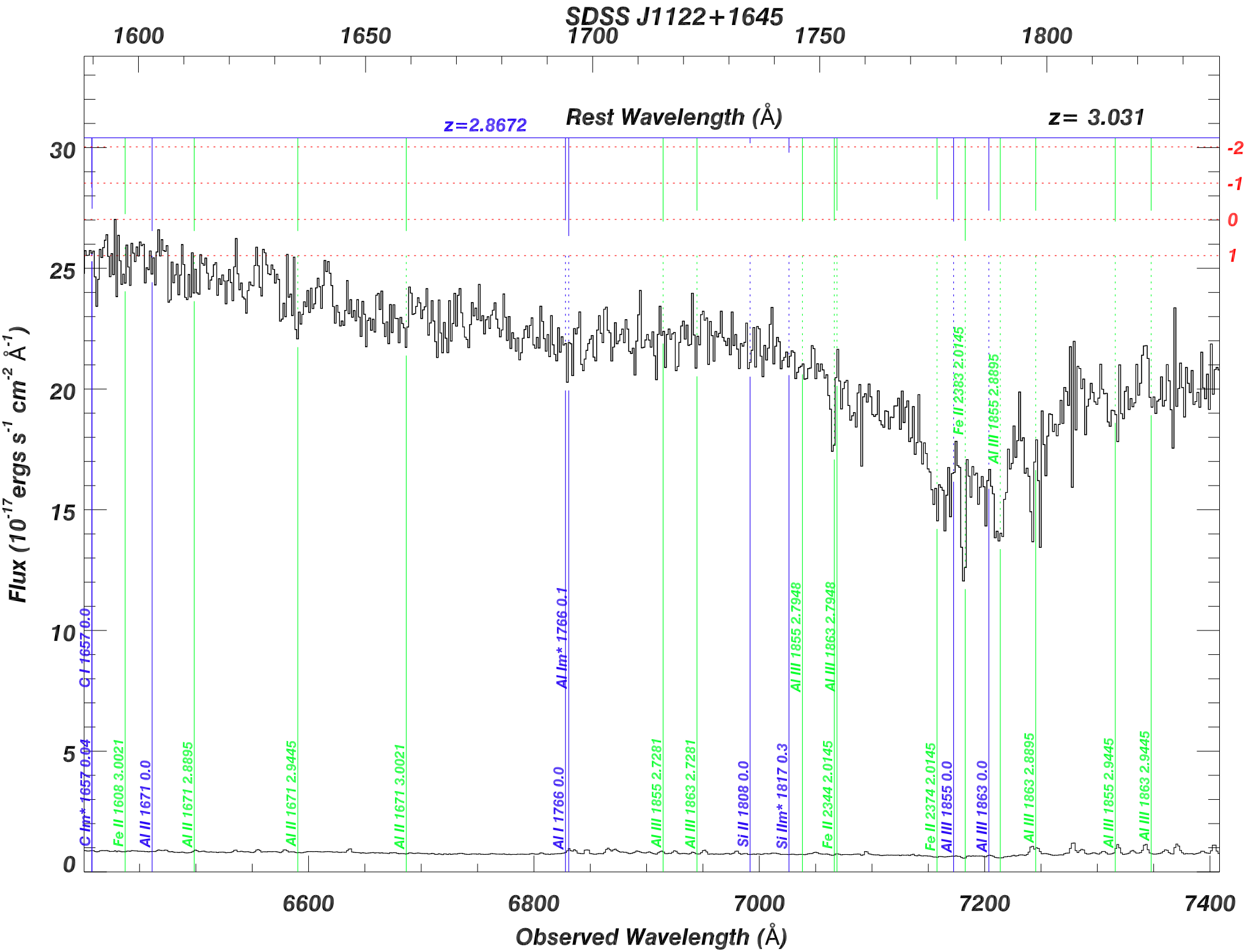
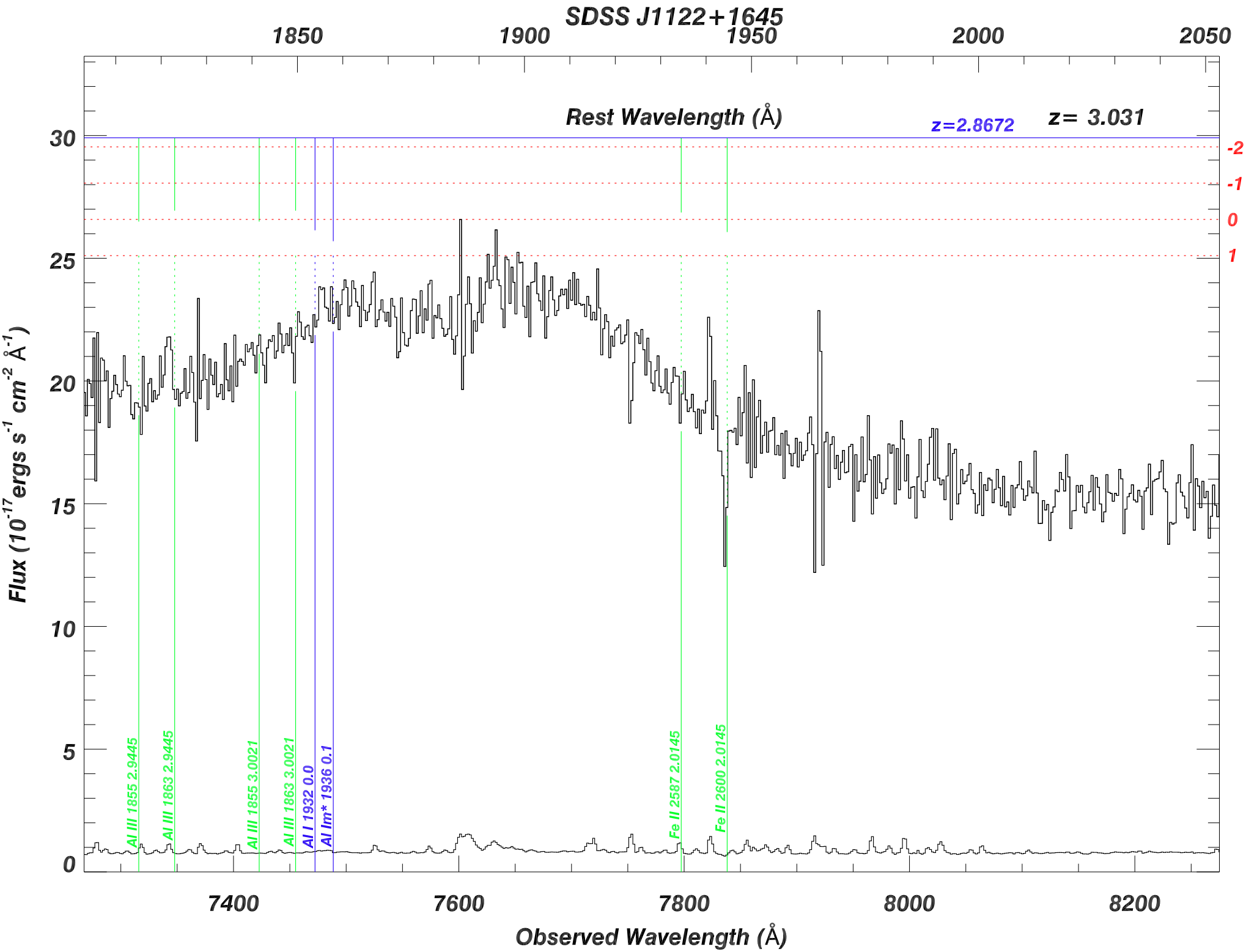

SDSS J1122+1645
Rest Wavelength (Å)
z= 3.031
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
Observed Wavelength (Å)
1000
1200
1400
1600
1800
2000
2200
0
20
40
60
80
4000
5000
6000
7000
8000
9000

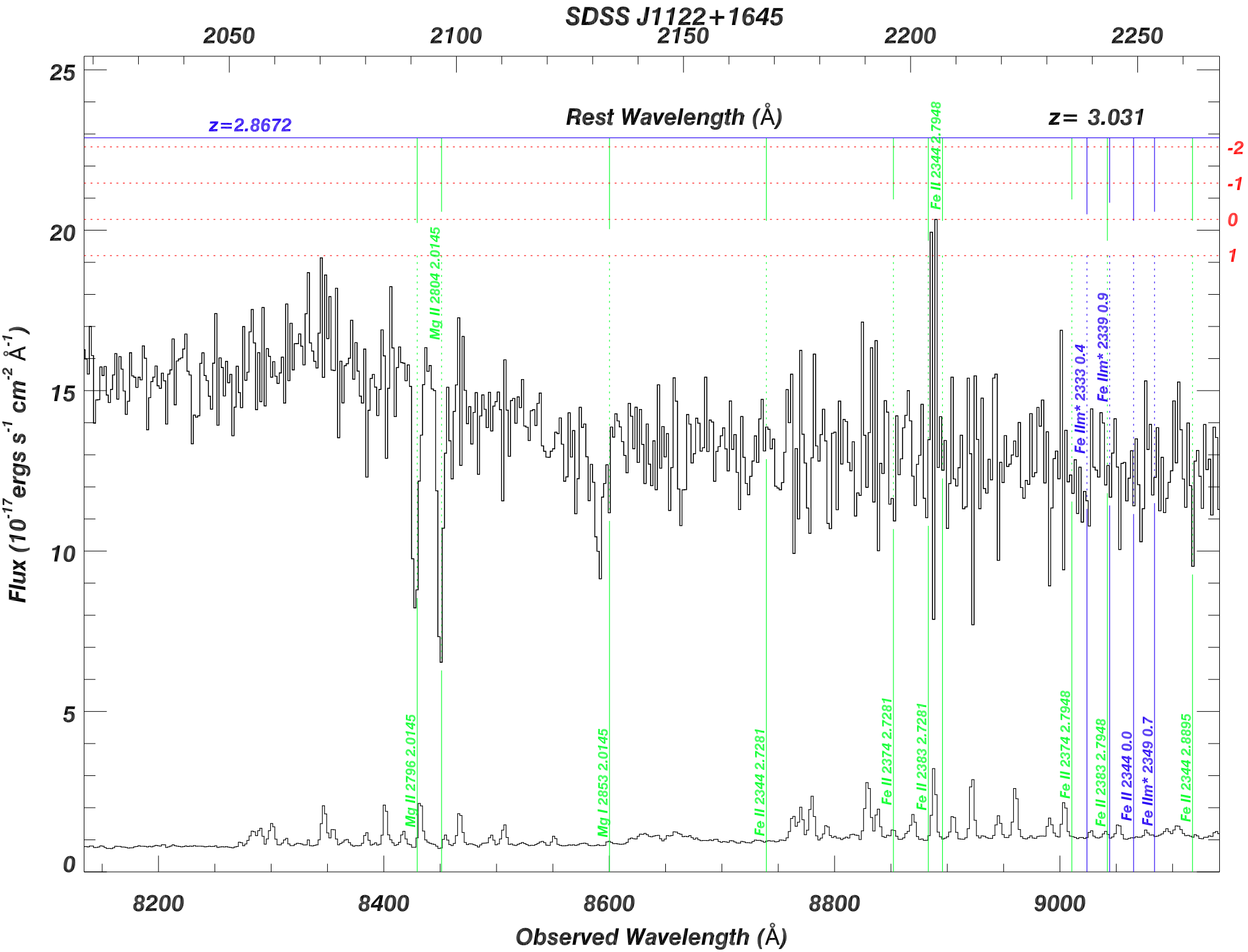

SDSS J1122+1645
Rest Wavelength (Å)
z=2.8672
z= 3.031
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
Observed Wavelength (Å)
N III 990 0.0
N IIIm* 992 0.2
H I 1026 0.0
O VI 1032 0.0
C II 1036 0.0
C IIm* 1037 0.06
O VI 1038 0.0
C II 1335 2.0145
S IV 1063 0.0
S IVm* 1073 1.0
Si IV 1394 2.0145
Si IV 1403 2.0145
P V 1118 0.0
Fe III 1123 0.0
Fe IIIm* 1125 0.4
Fe IIIm* 1127 0.7
Fe IIIm* 1131 0.9
H I 1216 2.7281
C IIIm* 1176 52.4
Si II 1527 2.0145
N V 1239 2.7281
N V 1243 2.7281
H I 1216 2.7948
C IV 1548 2.0145
Si III 1207 0.0
C IV 1551 2.0145
H I 1216 0.0
N V 1239 2.7948
Si II 1260 2.7281
N V 1243 2.7948
H I 1216 2.8895
Si II 1260 2.7948
N V 1239 0.0
H I 1216 2.9445
N V 1243 0.0


SDSS J1122+1645
Rest Wavelength (Å)
z= 3.031
z=2.6872
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
Observed Wavelength (Å)
1200
1250
1300
1350
1400
4800
5000
5200
5400
5600
0
20
40
60
80
-2
-1
0
1
C IV 1551 2.0145
N V 1243 2.7948
H I 1216 2.8895
Si II 1260 2.7948
N V 1239 0.0
H I 1216 2.9445
N V 1243 0.0
N V 1239 2.8895
N V 1243 2.8895
Fe II 1608 2.0145
H I 1216 3.0021
Si II 1260 0.0
Si IIm* 1265 0.3
N V 1239 2.9445
Si II 1260 2.8895
N V 1243 2.9445
C I 1277 0.0
C Im* 1278 0.04
N V 1239 3.0021
C II 1335 2.7281
Si II 1260 2.9445
N V 1243 3.0021
Al II 1671 2.0145
Si II 1364 0.0021
O I 1302 0.0
C II 1335 2.7948
Si IIm* 1309 0.3
C IIm* 1336 0.06
C II 1335 0.0
C II 1335 2.8895
Si IV 1394 2.7281
Si IV 1403 2.7281
C II 1335 2.9445
Si IV 1394 2.7948
Si IV 1403 2.7948
C II 1335 3.0021
Si IV 1394 0.0
Si IV 1403 0.0
Si IV 1394 2.8895
Si IV 1403 2.8895
Si IV 1394 2.9445
Si IV 1403 2.9445
Si IV 1394 3.0021
O I
Al III 1855 2.0145
Al III 1863 2.0145
Si IV 1403 3.0021


SDSS J1122+1645
Rest Wavelength (Å)
z=2.8672
z= 3.031
Observed Wavelength (Å)
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
Si IV 1394 3.0021
Al III 1855 2.0145
Si IV 1403 3.0021
Al III 1863 2.0145
Si II 1527 2.7281
C IV 1548 2.7281
C IV 1551 2.7281
Si II 1527 2.7948
C IV 1548 2.7948
C IV 1551 2.7948
O I
Na I
Si II 1527 0.0
Si IIm* 1533 0.3
Si II 1527 2.8895
C IV 1548 0.0
C IV 1551 0.0
Fe II 1608 2.7281
C IV 1548 2.8895
C I 1560 0.0
Si II 1527 2.9445
C IV 1551 2.8895
C Im* 1561 0.04
Fe II 1608 2.7948
C IV 1551 2.9445
C IV 1548 2.9445
Si II 1527 3.0021
C IV 1548 3.0021
C IV 1551 3.0021
Fe II 1608 0.0
Al II 1671 2.7281
Fe II 1608 2.8895
O I
Al II 1671 2.7948
Fe II 1608 2.9445
C I 1657 0.0
C Im* 1657 0.04
Fe II 1608 3.0021
Al II 1671 0.0
Al II 1671 2.8895
1400
1450
1500
1550
1600
5600
5800
6000
6200
6400
0
10
20
30
40
50
-2
-1
0
1


SDSS J1122+1645
Rest Wavelength (Å)
z=2.8672
z= 3.031
1600
1650
1700
1750
1800
-2
-1
0
1
30
25
20
15
10
5
0
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
C I 1657 0.0
C IIm* 1657 0.04
Fe II 1608 3.0021
Al II 1671 0.0
Al II 1671 2.8895
Al II 1671 2.9445
Al II 1671 3.0021
Al I 1766 0.1
Al I 1766 0.0
Al IIm* 1766 0.1
Al III 1855 2.7281
Al III 1863 2.7281
Si II 1808 0.0
Si IIm* 1817 0.3
Al III 1855 2.7948
Al III 1863 2.7948
Fe II 2344 2.0145
Fe II 2374 2.0145
Fe II 2383 2.0145
Al III 1855 0.0
Al III 1863 0.0
Al III 1855 2.8895
Al III 1863 2.8895
Al III 1855 2.9445
Al III 1863 2.9445
6600
6800
7000
7200
7400
Observed Wavelength (Å)


SDSS J1122+1645
Rest Wavelength (Å)
z=2.8672
z= 3.031
1850
1900
1950
2000
2050
-2
-1
0
1
30
25
20
15
10
5
0
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
Al III 1855 2.9445
Al III 1863 2.9445
Al III 1855 3.0021
Al III 1863 3.0021
Al I 1932 0.0
Al Im* 1936 0.1
Fe II 2587 2.0145
Fe II 2600 2.0145
7400
7600
7800
8000
8200
Observed Wavelength (Å)


SDSS J1122+1645
Rest Wavelength (Å)
z=2.8672
z= 3.031
Mg II 2796 2.0145
Mg II 2804 2.0145
Mg I 2853 2.0145
Fe II 2344 2.7281
Fe II 2374 2.7281
Fe II 2383 2.7281
Fe II 2344 2.7948
Fe II 2374 2.7948
Fe II 2383 2.7948
Fe II 2344 0.0
Fe IIm* 2349 0.7
Fe II 2344 2.8895
Fe IIm* 2333 0.4
Fe IIm* 2339 0.9
-2
-1
0
1
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
Observed Wavelength (Å)