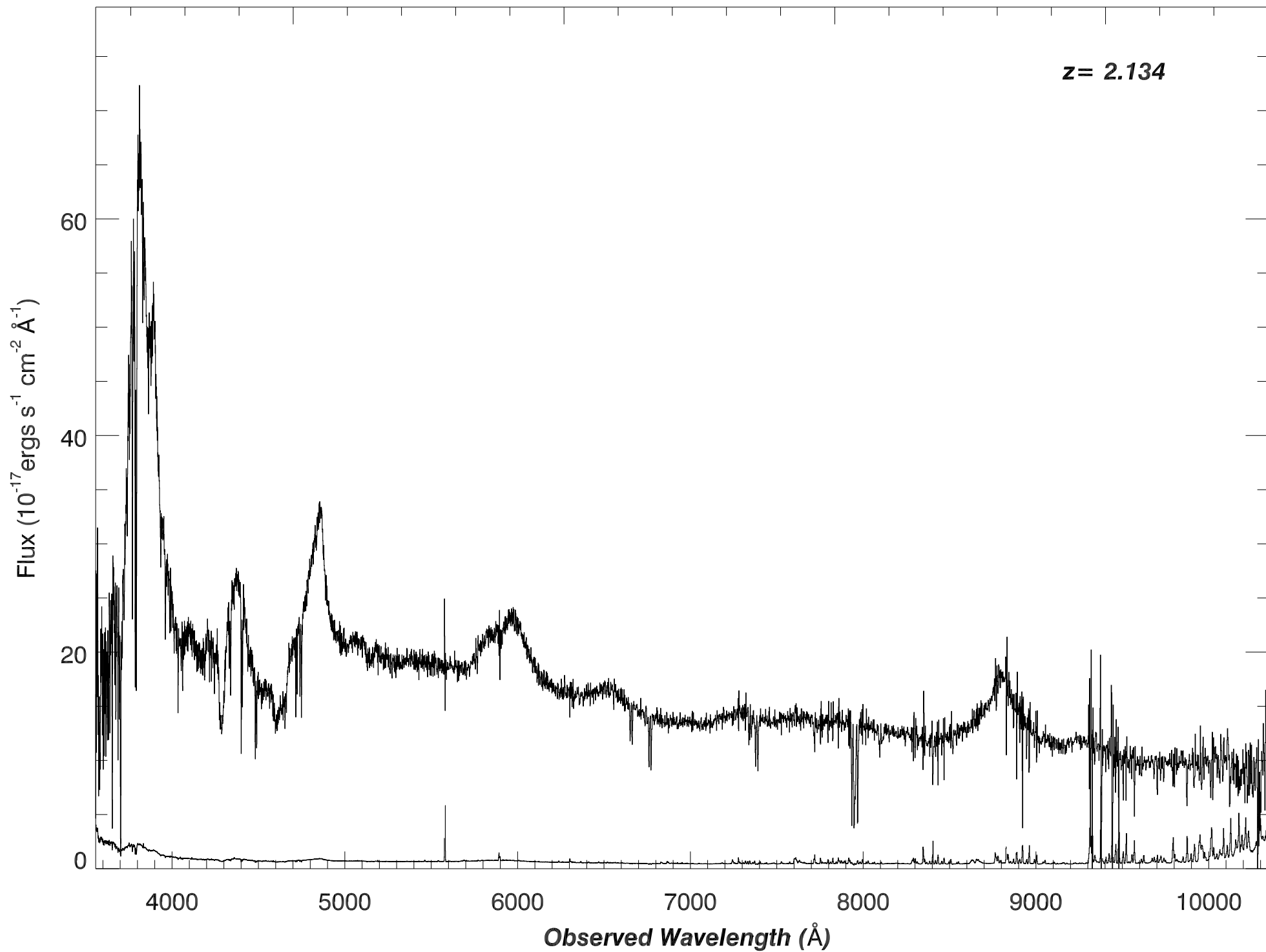


**SDSS\_J1621+0758\_MJD56016**

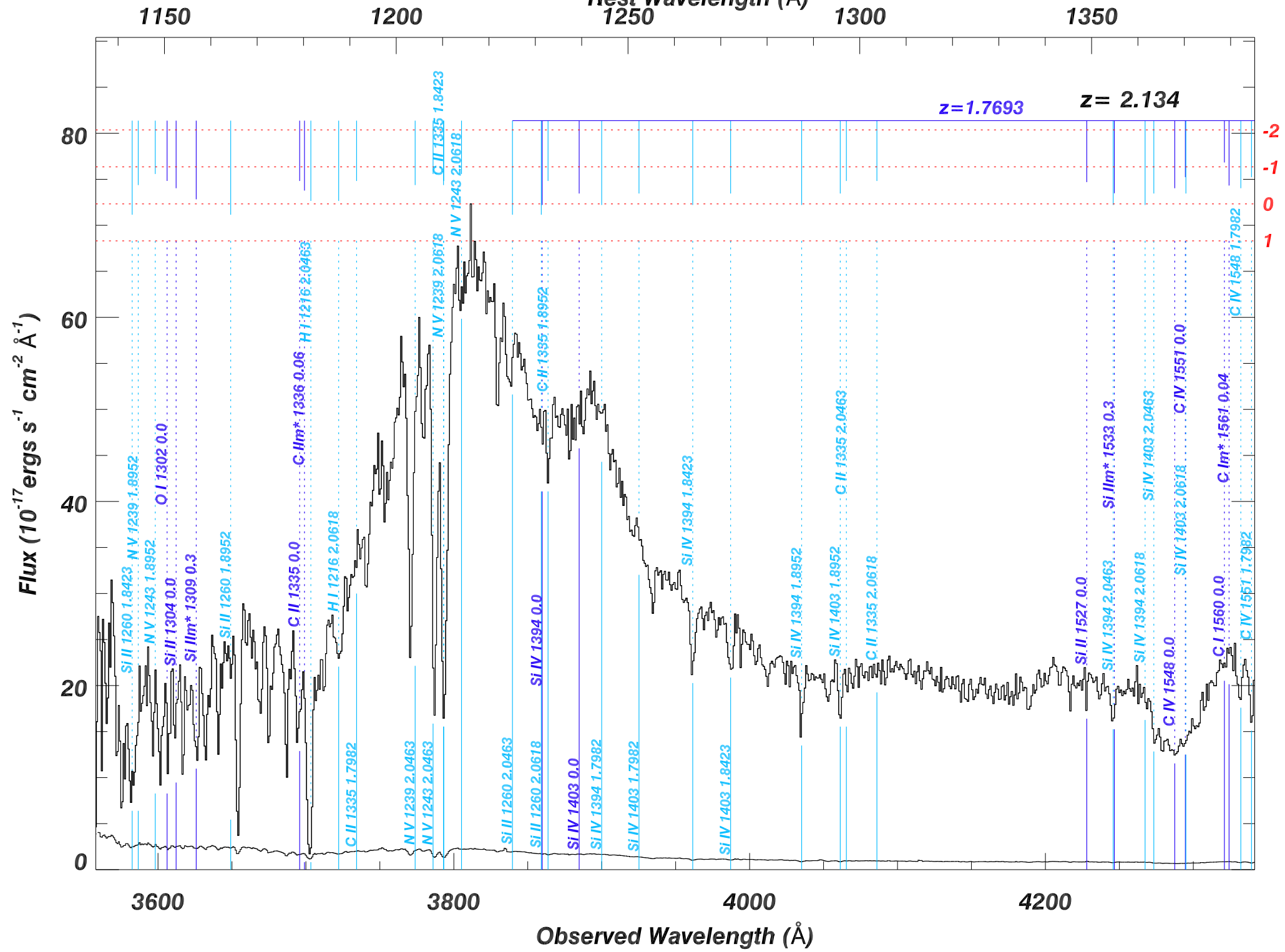
**Rest Wavelength ( $\text{\AA}$ )**  
1500                      2000                      2500                      3000

**$z = 2.134$**

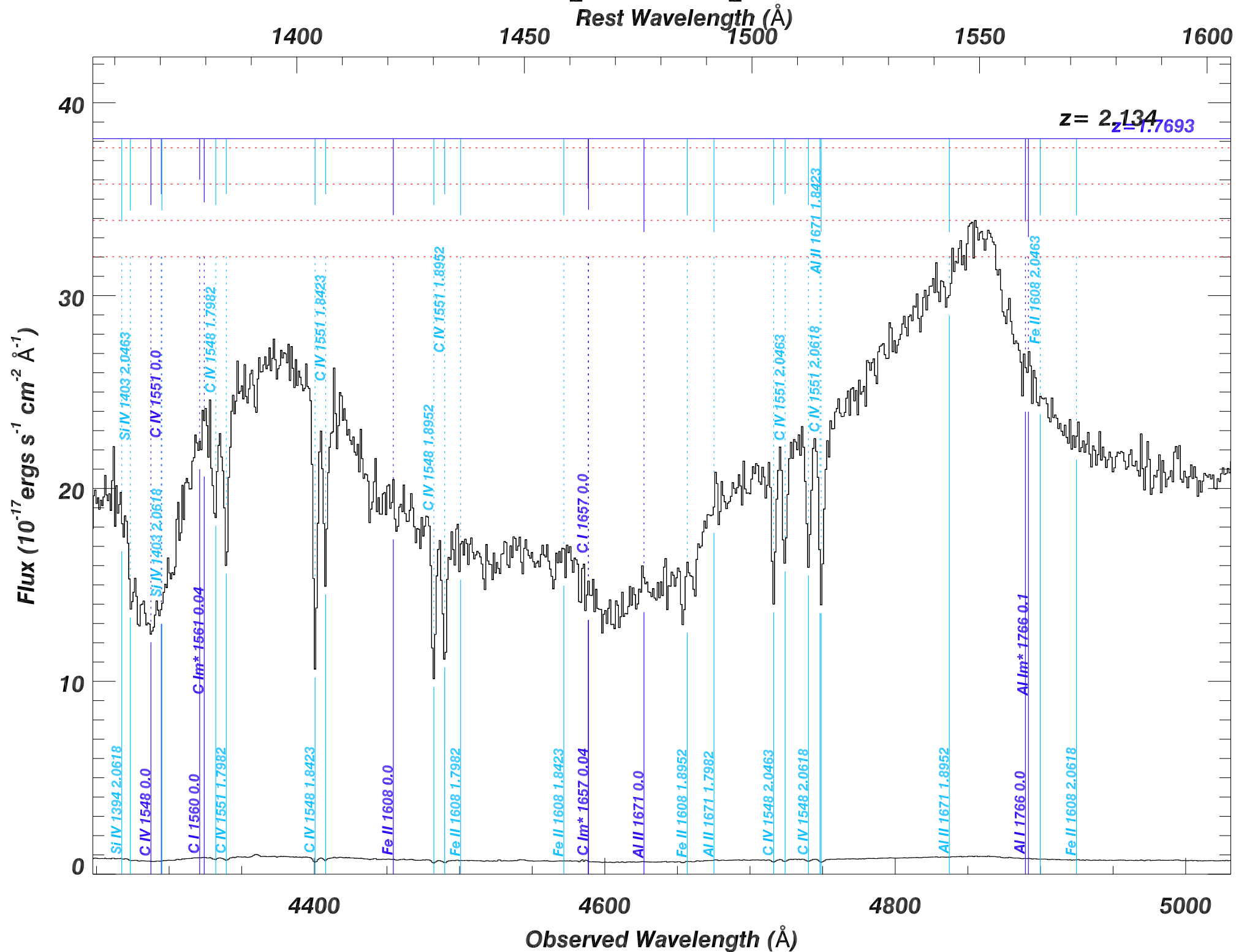


# SDSS\_J1621+0758\_MJD56016

Rest Wavelength (Å)



## SDSS\_J1621+0758\_MJD56016



# SDSS\_J1621+0758\_MJD56016

Rest Wavelength ( $\text{\AA}$ )

1600

1650

1700

1750

1800

Flux ( $10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$ )

30  
25  
20  
15  
10  
5  
0

$z=1.7693$

$z=2.134$

-2  
-1  
0  
1

5000

5200

5400

5600

Observed Wavelength ( $\text{\AA}$ )

Al II 1671 2.0463

Al II 1671 2.0618

Al III 1855 0.0

Al III 1863 0.0

Al III 1855 1.7982

Al III 1863 1.7982

Al III 1855 1.8423

Al III 1863 1.8423

Al I 1932 0.0

Al Im\* 1936 0.1

Al III 1855 1.8952

Al III 1863 1.8952

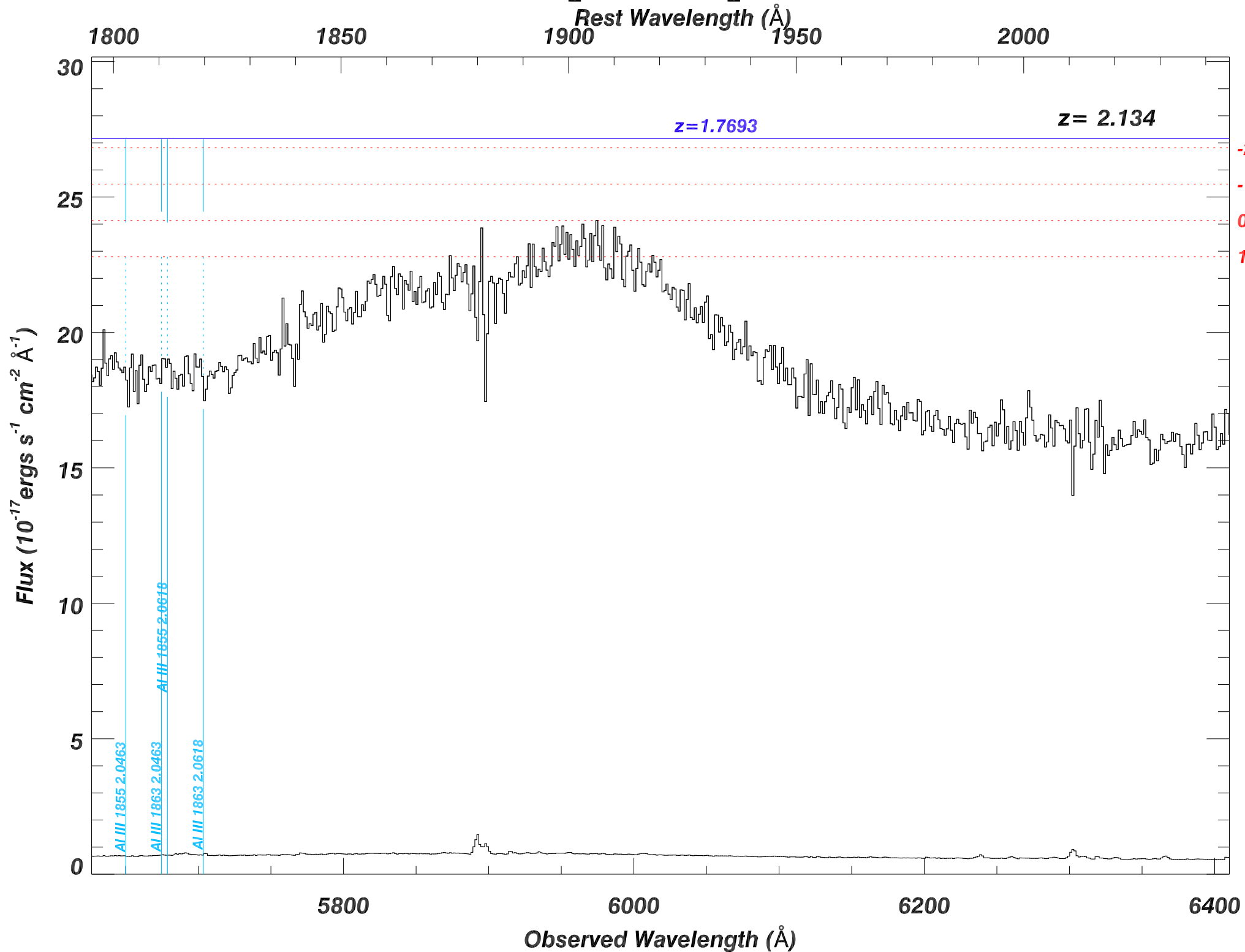
Al III 1855 2.0463

Al III 1863 2.0463

Al III 1855 2.0618

Al III 1863 2.0618

# SDSS\_J1621+0758\_MJD56016



# SDSS\_J1621+0758\_MJD56016

Rest Wavelength ( $\text{\AA}$ )

2050

2100

2150

2200

2250

$z=1.7693$

$z=2.134$

Flux ( $10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$ )

20  
15  
10  
5  
0

-2  
-1  
0  
1

6400

6600

6800

7000

Observed Wavelength ( $\text{\AA}$ )

Fe III\* 2333 0.4

Fe III\* 2339 0.9

Fe II 2344 0.0

Fe III\* 2349 0.7

Fe III\* 2366 0.4

Fe II 2374 0.0

Fe II 2383 0.0

Fe III\* 2389 0.4

Fe III\* 2396 0.4

Fe II 2374 1.7982

Fe III\* 2406 0.7

Fe II 2344 1.8423

Fe III\* 2411 0.9

Fe III\* 2414 1.0

Fe II 2374 1.8423

Fe II 2383 1.8423

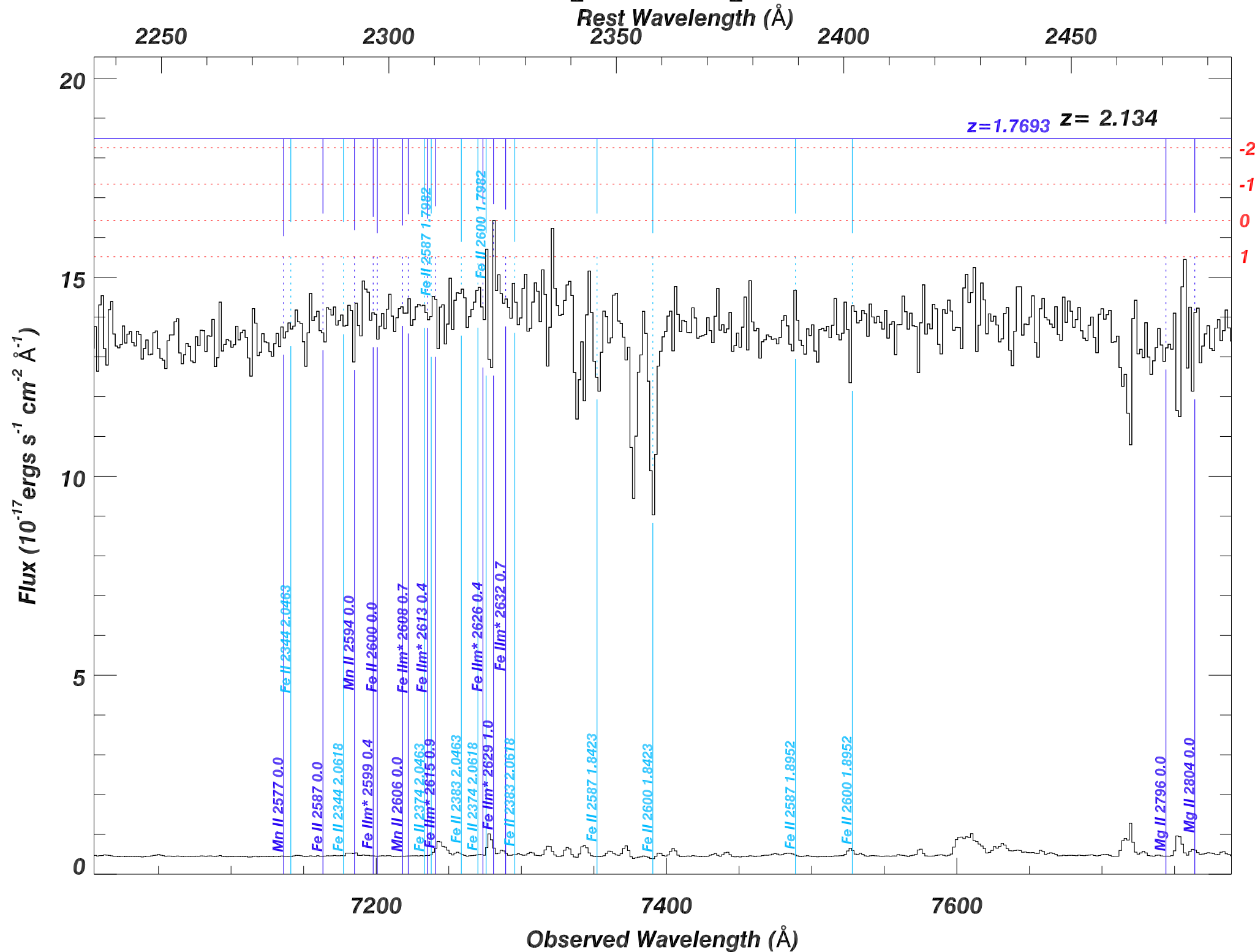
Fe II 2344 1.8952

Fe I 2484 0.0

Fe II 2383 1.8952

Fe I 2524 0.0

# SDSS\_J1621+0758\_MJD56016



# SDSS\_J1621+0758\_MJD56016

Rest Wavelength (Å)

2500

2550

2600

2650

2700

Flux ( $10^{-17}$  ergs  $s^{-1}$   $cm^{-2}$   $\text{\AA}^{-1}$ )

20  
15  
10  
5  
0

$z = 2.134$   
 ~~$z = 1.7695$~~

-2  
-1  
0  
1

Mg II 2796 0.0

Mg II 2804 0.0

Mg II 2796 1.7982

Mg II 2804 1.7982

Fe II 2587 2.0463

Mg I 2853 0.0

Fe II 2587 2.0618

Fe II 2600 2.0463

Mg II 2796 1.8423

Fe II 2600 2.0618

Mg I 2853 1.7982

Mg II 2796 1.8952

Mg I 2853 1.8423

Mg II 2804 1.8952

He I m\* 2946 159.9

Mg I 2853 1.8952

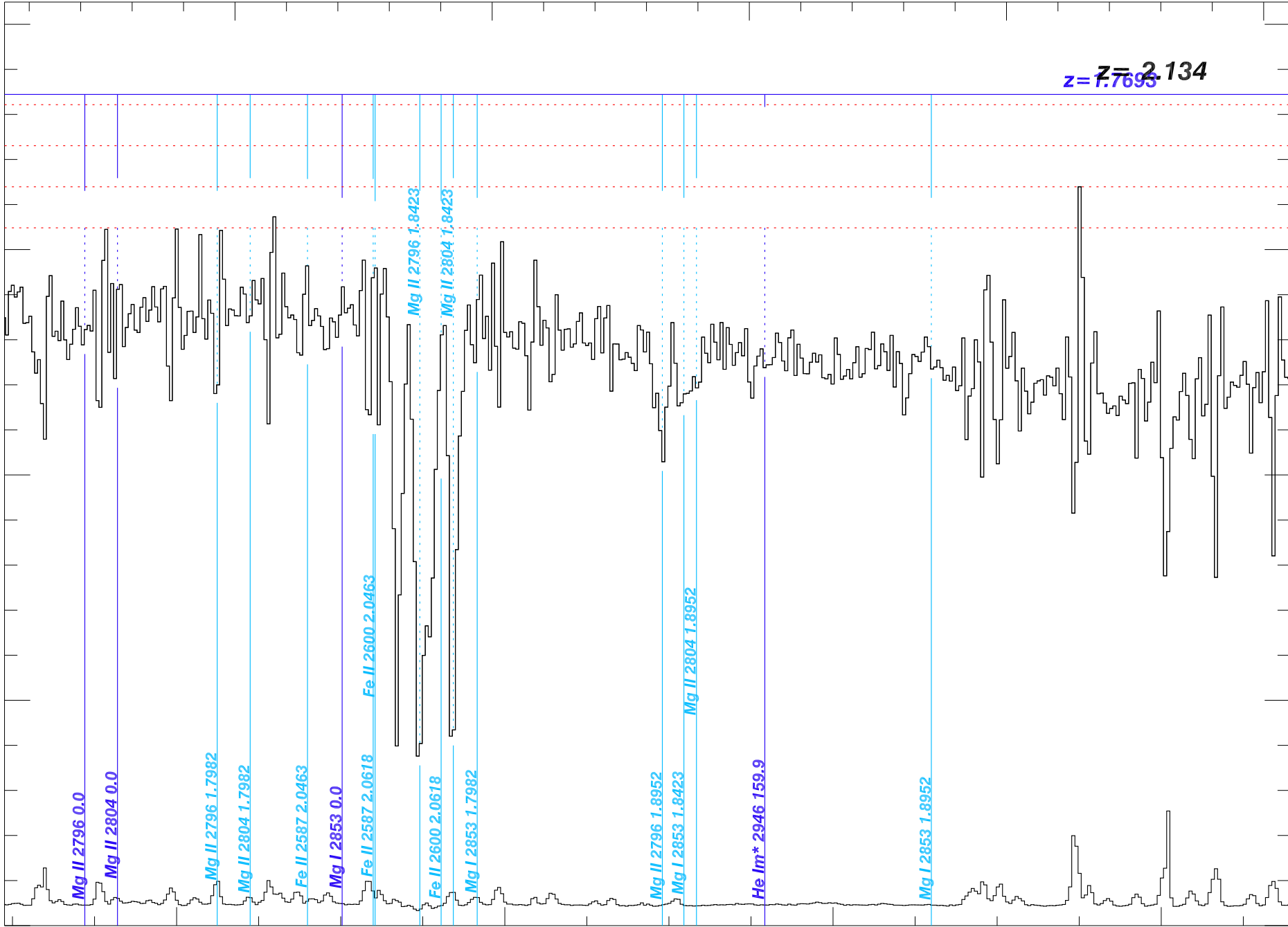
7800

8000

8200

8400

Observed Wavelength (Å)





# SDSS\_J1621+0758\_MJD56016

Rest Wavelength ( $\text{\AA}$ )

2700

2750

2800

2850

2900

$z=1.7693$

$z=2.134$

Flux ( $10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$ )

25

20

15

10

5

0

-2

-1

0

1

Mg II 2796 2.0463

Mg II 2804 2.0463

Mg II 2796 2.0618

Mg II 2804 2.0618

Mg I 2853 2.0463

Mg I 2853 2.0618

He I m\* 3189 159.9

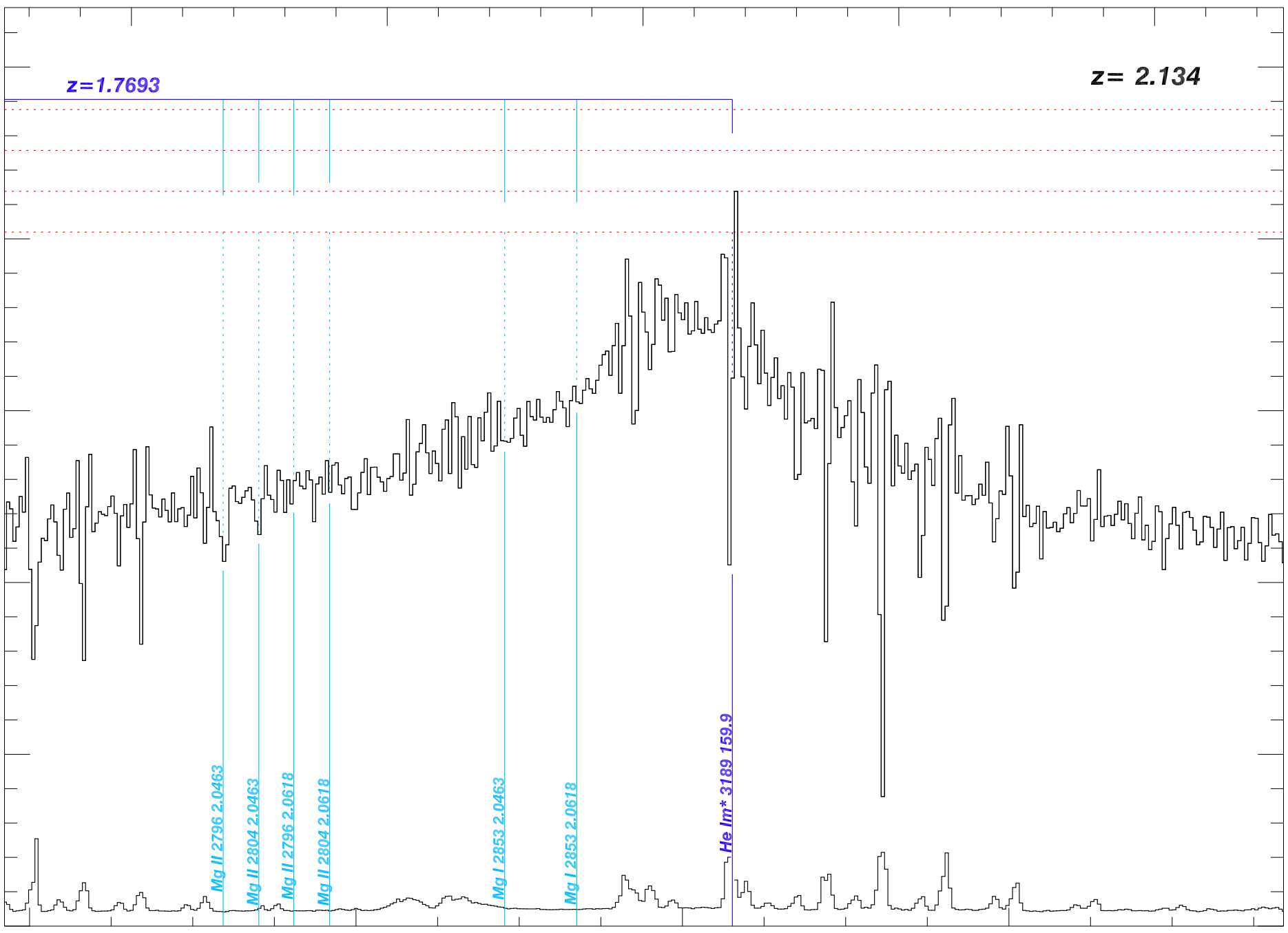
8400

8600

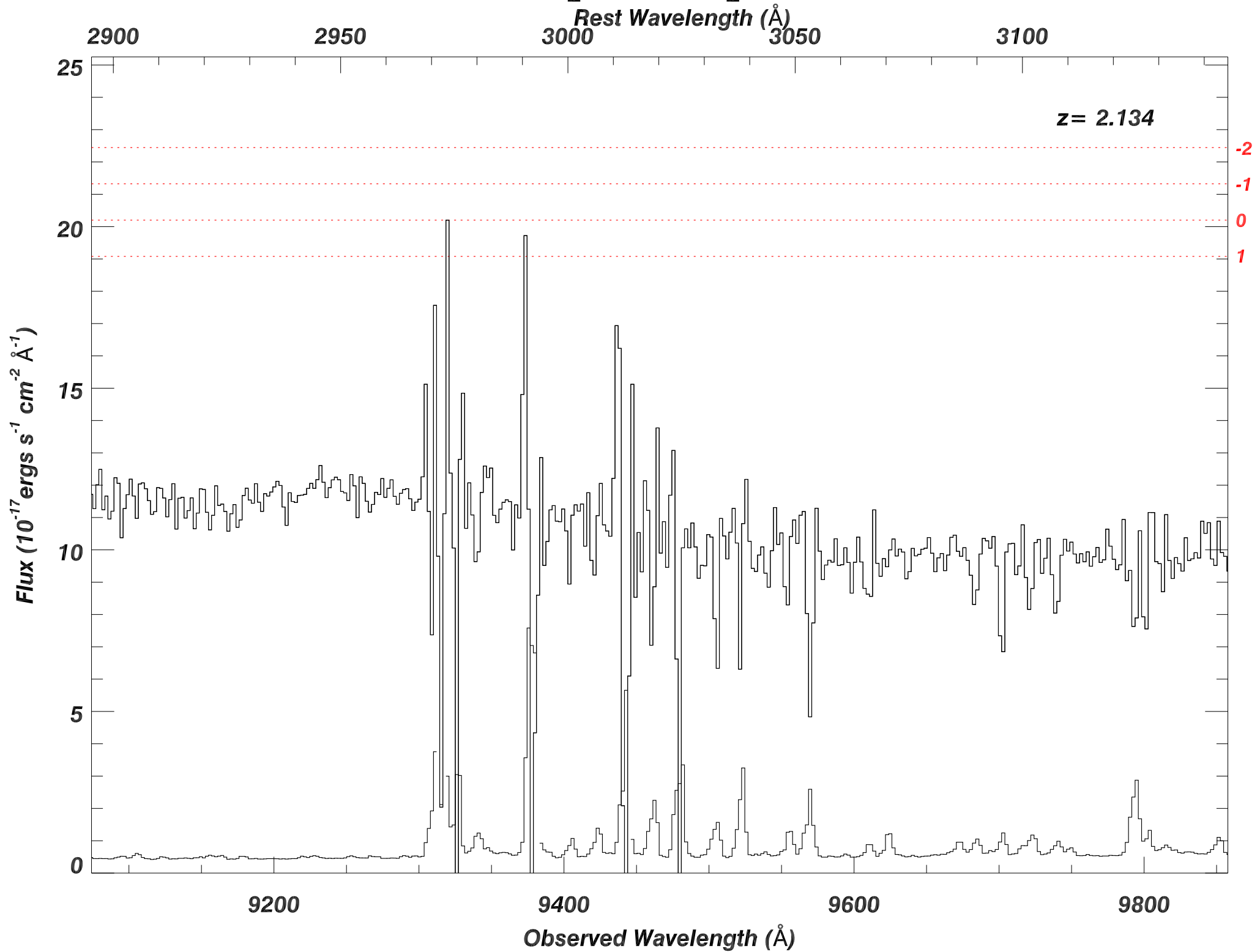
8800

9000

Observed Wavelength ( $\text{\AA}$ )



# SDSS\_J1621+0758\_MJD56016



**SDSS\_J1621+0758\_MJD56016**

**Rest Wavelength ( $\text{\AA}$ )**

**3200**

**3300**

**3400**

**3500**

**$z = 2.134$**

**Flux ( $10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$ )**

**20**

**15**

**10**

**5**

**0**

**$9.80 \times 10^3$**

**$1.00 \times 10^4$**

**$1.02 \times 10^4$**

**$1.04 \times 10^4$**

**$1.06 \times 10^4$**

**$1.08 \times 10^4$**

**$1.10 \times 10^4$**

**Observed Wavelength ( $\text{\AA}$ )**

**-2**  
**-1**  
**0**  
**1**

