

**SDSS\_J1251+2354\_MJD56312**

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

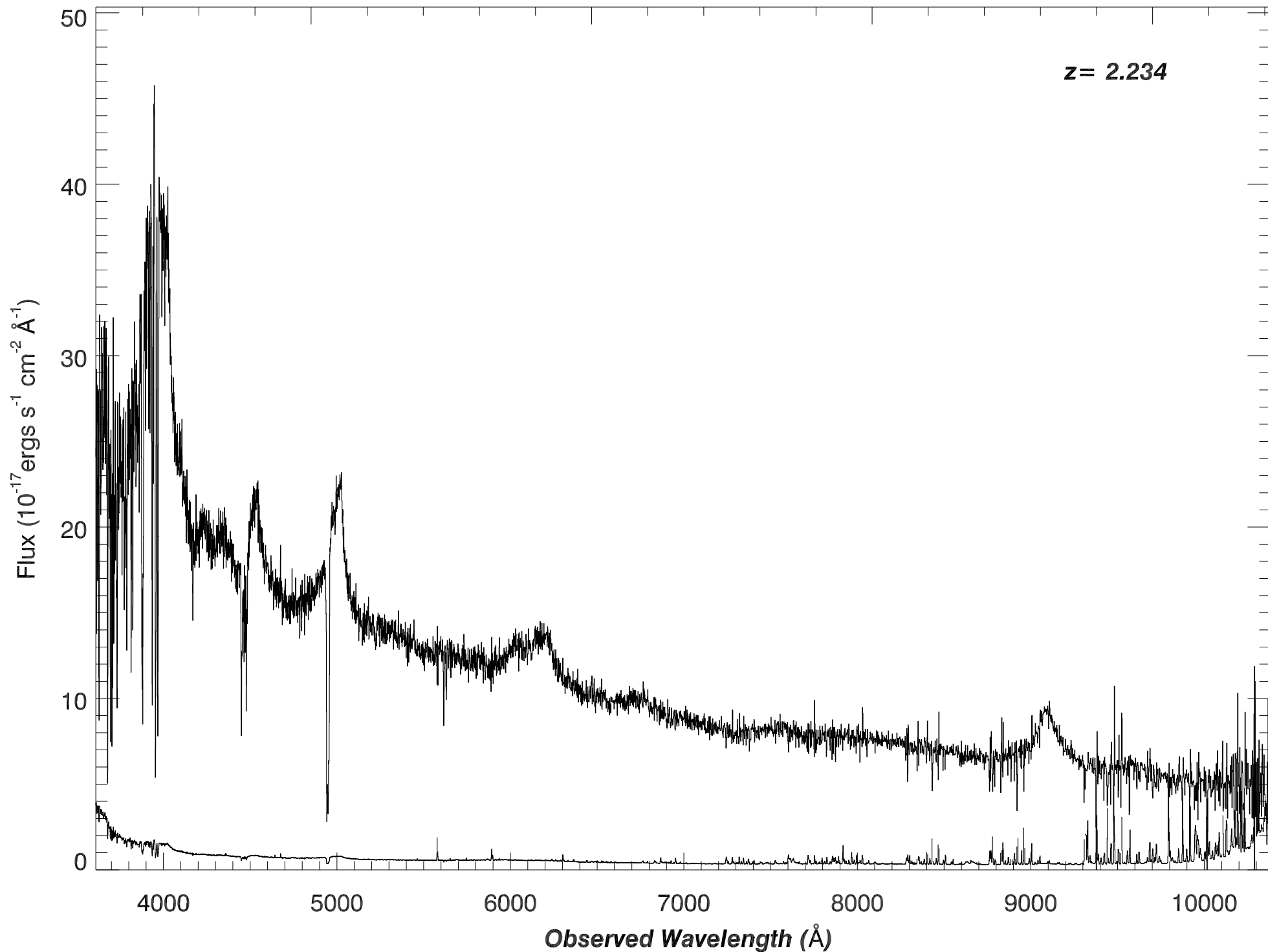
**1500**

**2000**

**2500**

**3000**

**$z = 2.234$**



# SDSS\_J1251+2354\_MJD56312

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

1150

1200

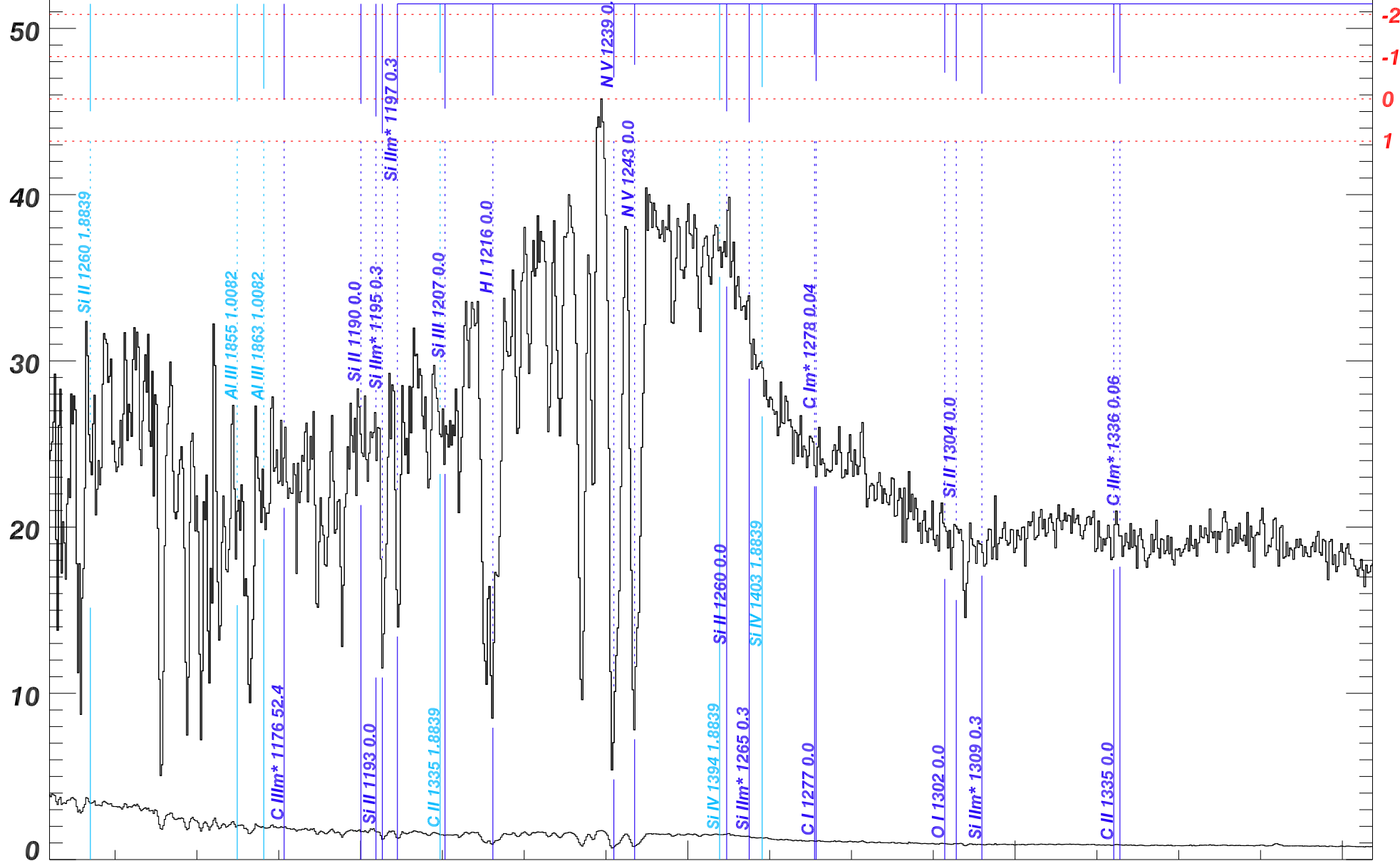
1250

1300

1350

$z = 2.234$   
 $z = 2.1924$

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



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

3800

4000

4200

4400

# SDSS\_J1251+2354\_MJD56312

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

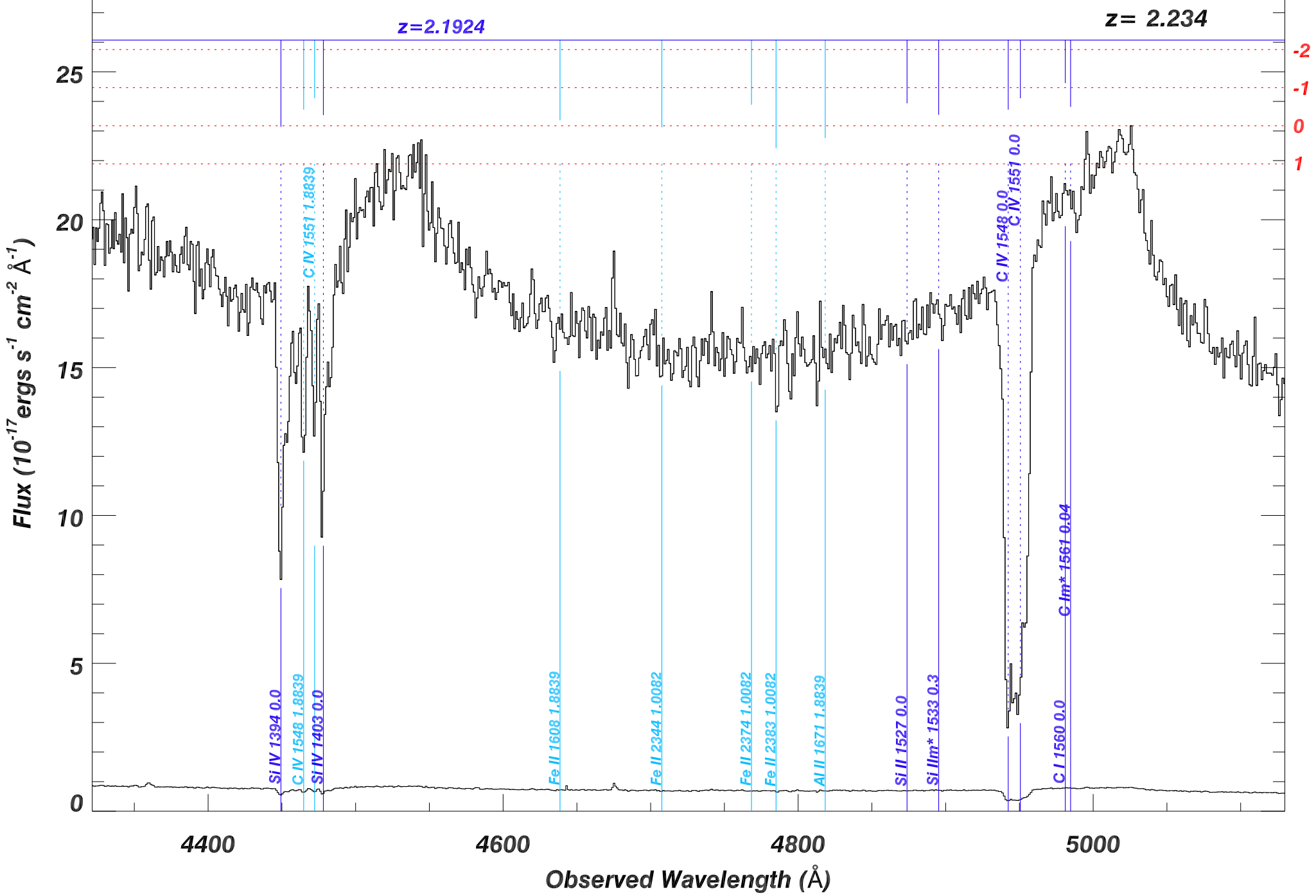
1350

1400

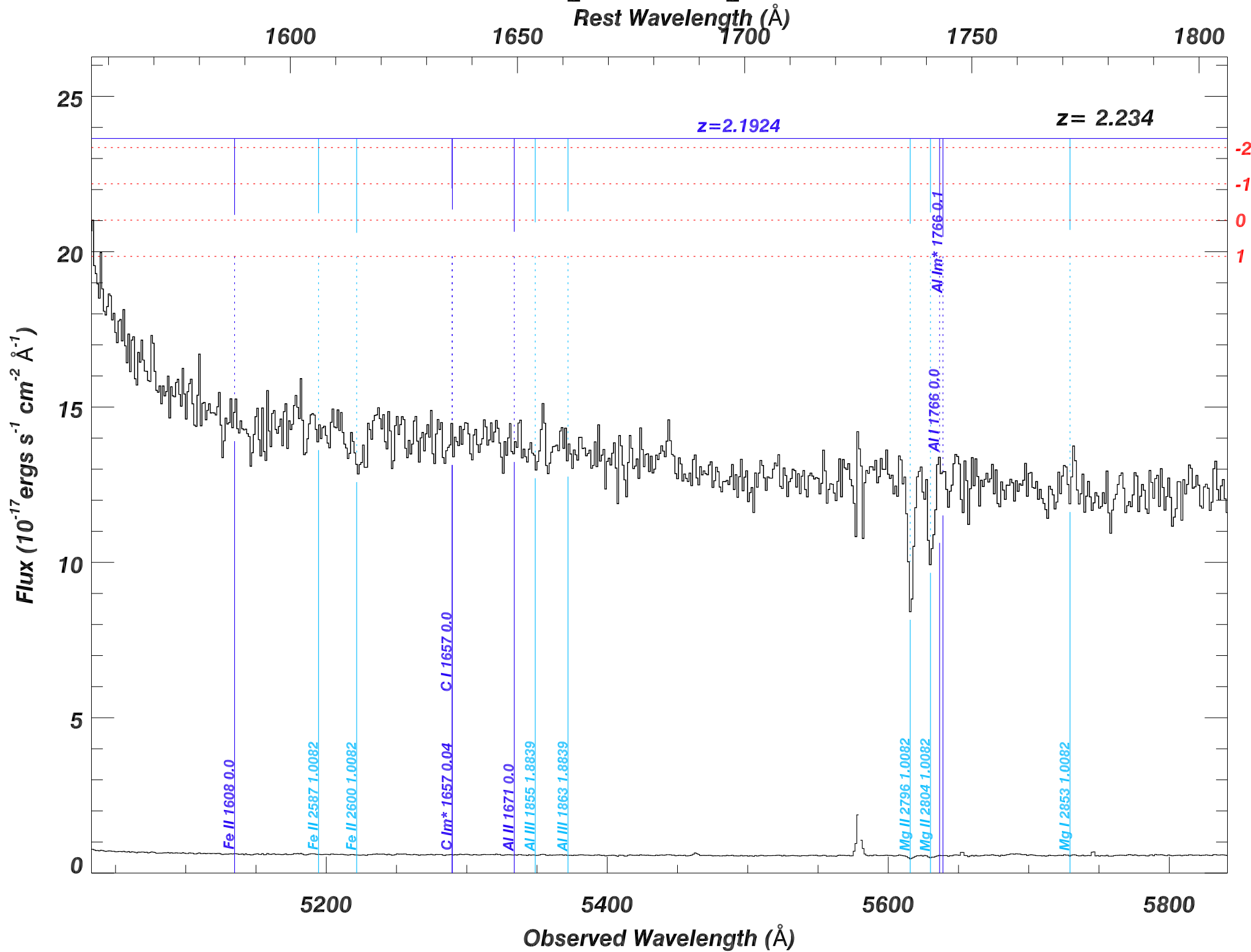
1450

1500

1550



# SDSS\_J1251+2354\_MJD56312



# SDSS\_J1251+2354\_MJD56312

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

1800

1850

1900

1950

2000

$z=2.1924$

$z=2.234$

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

15

10

5

0

-2

-1

0

1

Al III 1855 0.0

Al III 1863 0.0

Al I 1932 0.0

Al Im\* 1936 0.1

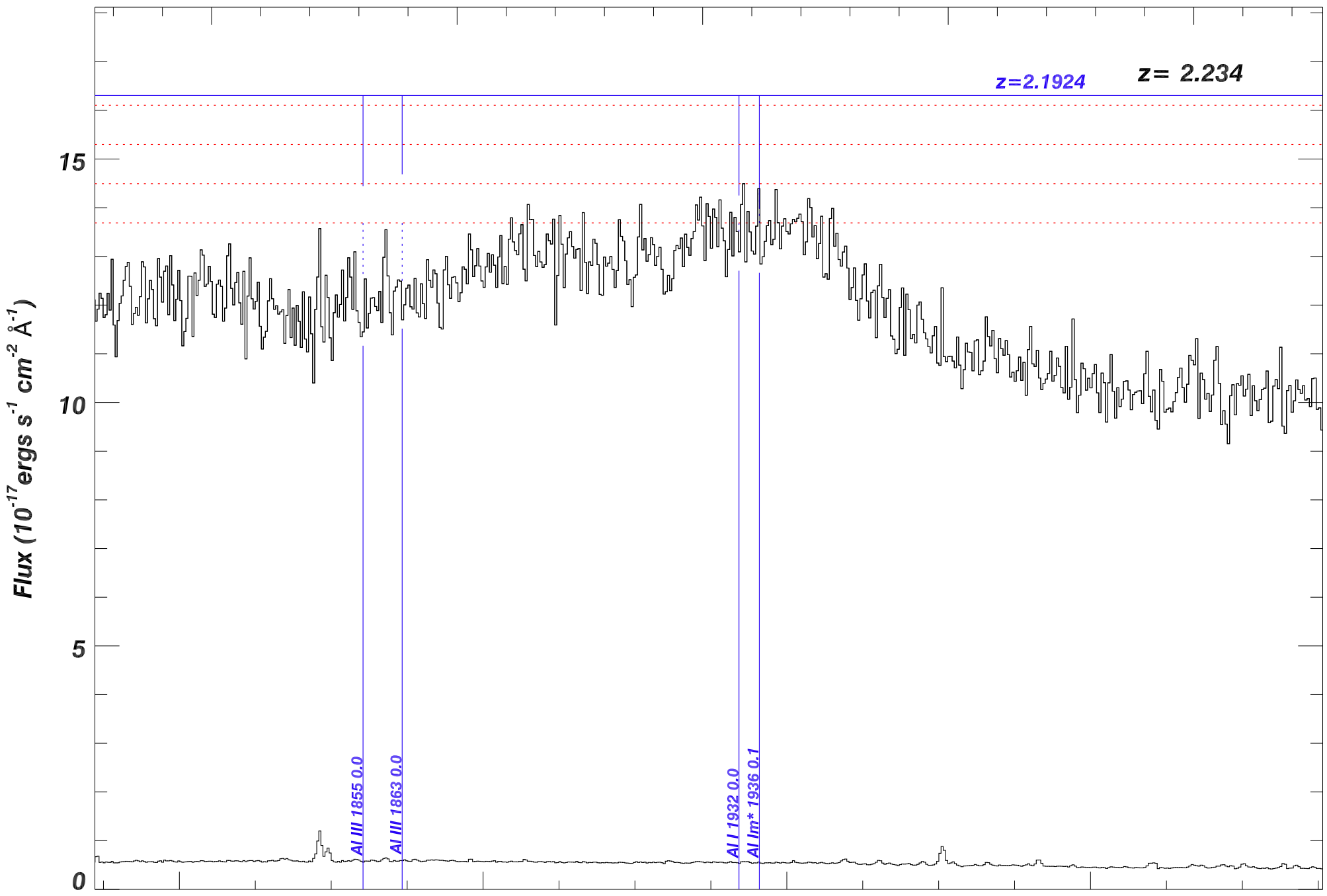
5800

6000

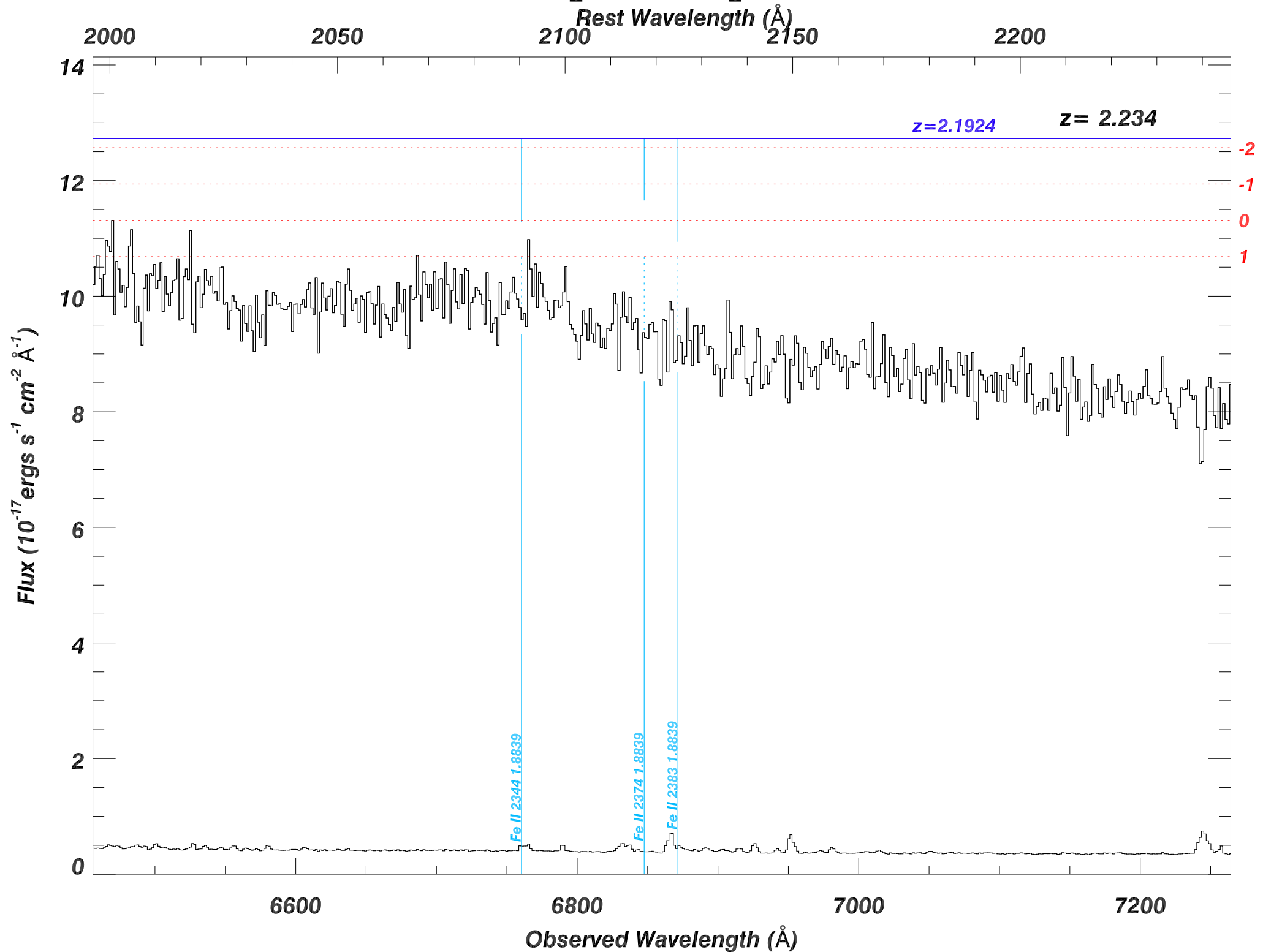
6200

6400

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



# SDSS\_J1251+2354\_MJD56312



# SDSS\_J1251+2354\_MJD56312

Rest Wavelength (Å)

2250

2300

2350

2400

2450

$z=2.1924$

$z=2.234$

Flux ( $10^{-17}$  ergs  $s^{-1}$   $cm^{-2}$  Å $^{-1}$ )

12

10

8

6

4

2

0

-2

-1

0

1

7200

7400

7600

7800

Observed Wavelength (Å)

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 III\* 2400 0.7

Fe III\* 2406 0.7

Fe III\* 2407 0.9

Fe III\* 2411 0.9

Fe III\* 2412 1.0

Fe III\* 2414 1.0

Ca II 3935 1.0082

Fe I 2484 0.0

Ca II 3970 1.0082

# SDSS\_J1251+2354\_MJD56312

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

2450

2500

2550

2600

2650

$z=2.1924$   
 $z=2.234$

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

10

-2

-1

0

1

8

6

4

2

0

8000

8200

8400

8600

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

Ca II 3935 1.0082

Fe I 2484 0.0

Ca II 3970 1.0082

Fe I 2524 0.0

Mg I 2796 1.8839

Mg II 2804 1.8839

Mn II 2577 0.0

Fe II 2587 0.0

Mn II 2594 0.0

Fe II 2600 0.0

Fe II 2600 0.0

Mn II 2606 0.0

Fe II 2606 0.7

Fe II 2613 0.4

Fe II 2615 0.9

Fe II 2626 0.4

Fe II 2629 1.0

Fe II 2632 0.7



# SDSS\_J1251+2354\_MJD56312

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

2700

2750

2800

2850

2900

$z=2.1924$

$z=2.234$

-2

-1

0

1

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

12

10

8

6

4

2

0

Mg II 2796 0.0

Mg II 2804 0.0

Mg I 2853 0.0

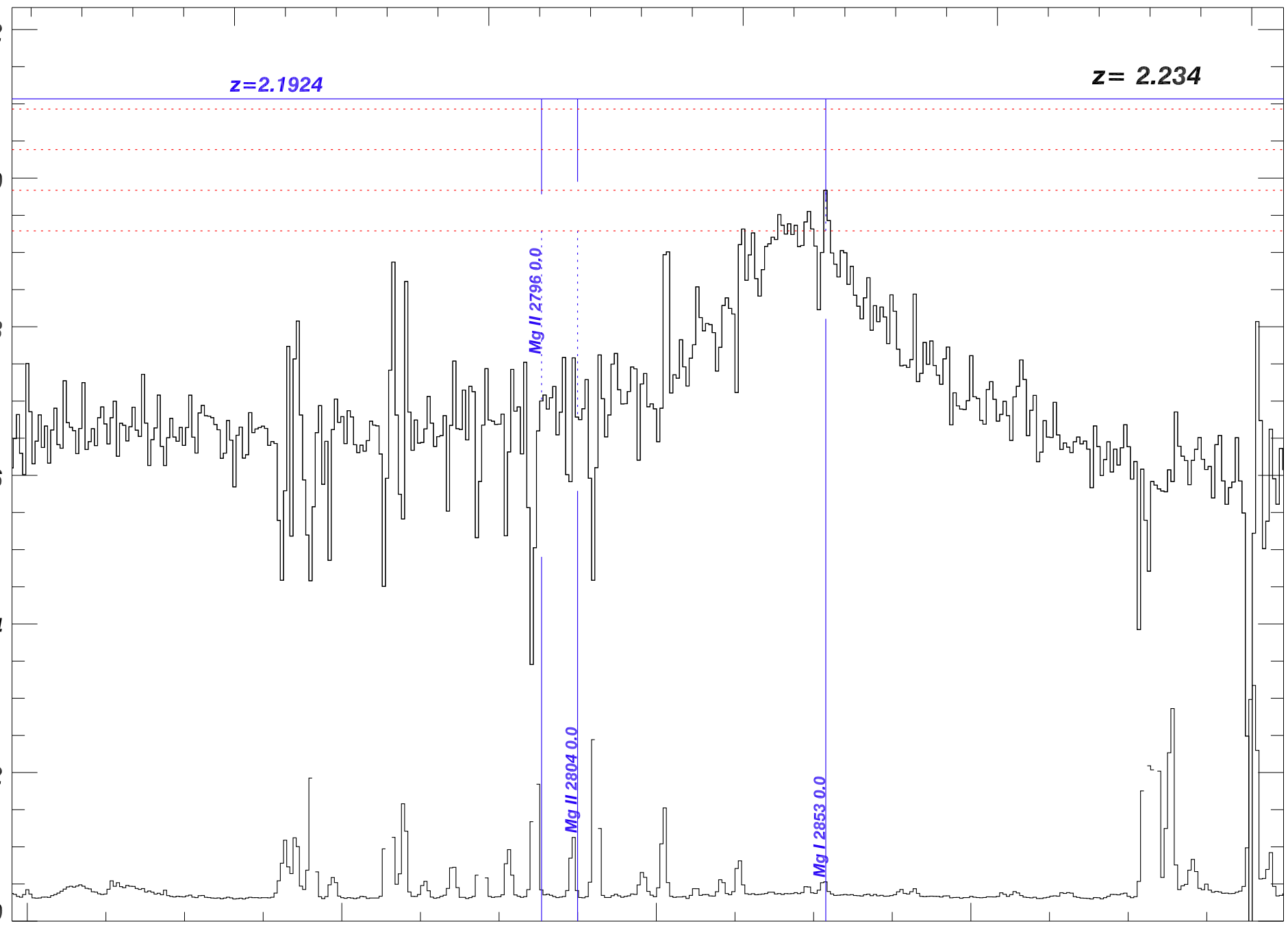
8600

8800

9000

9200

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



# SDSS\_J1251+2354\_MJD56312

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

2900

2950

3000

3050

3100

$z=2.1924$

$z=2.234$

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

12

10

8

6

4

2

0

-2

-1

0

1

He I m\* 2946 159.9

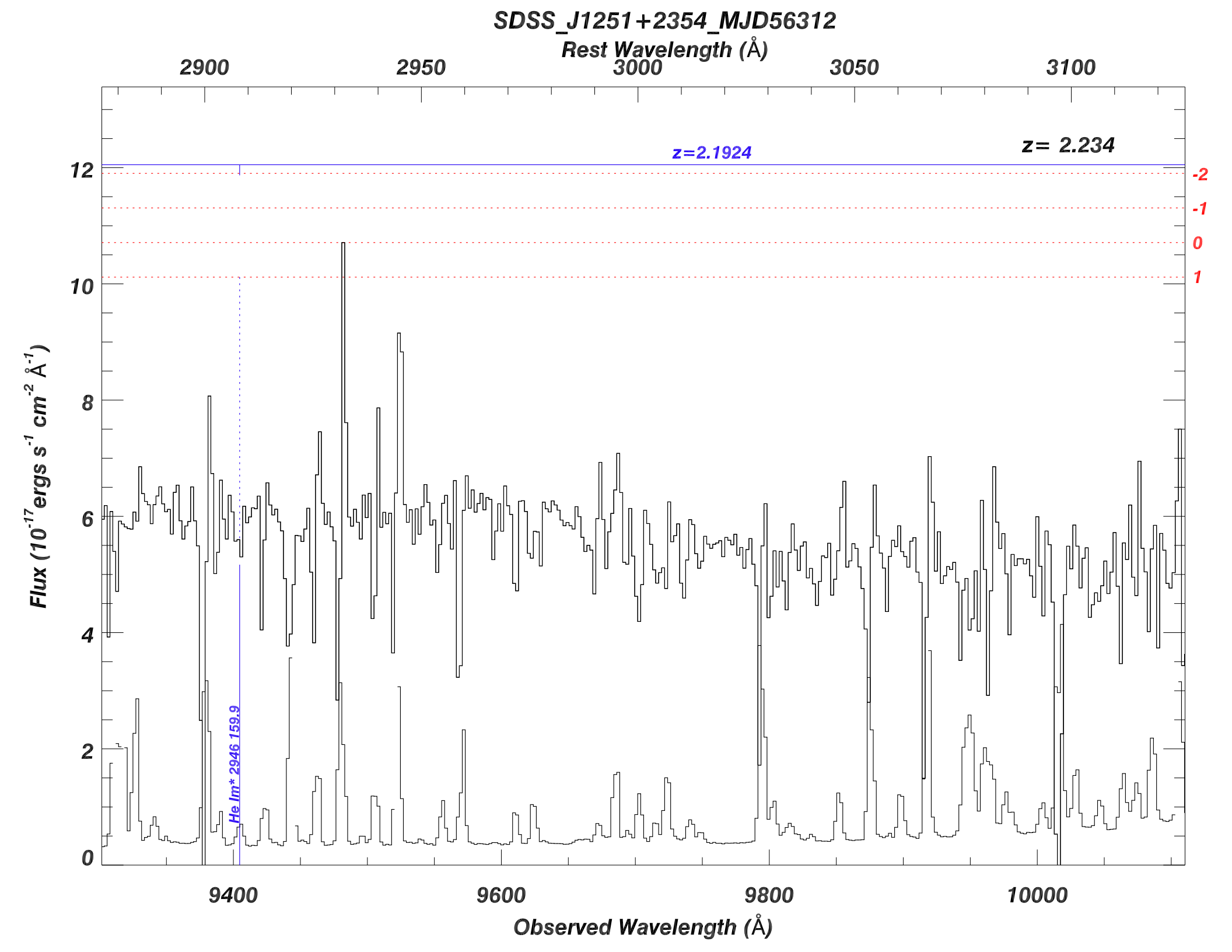
9400

9600

9800

10000

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



# SDSS\_J1251+2354\_MJD56312

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

3100

3200

3300

3400

$z=2.1924$

$z = 2.234$

-2  
-1  
0  
1

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

20  
15  
10  
5  
0

$1.02 \times 10^4$

$1.04 \times 10^4$

$1.06 \times 10^4$

$1.08 \times 10^4$

$1.10 \times 10^4$

$1.12 \times 10^4$

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

He I m\* 3189.159.9

