

**SDSS\_J1152+6323\_MJD56663**

*Rest Wavelength (Å)*

1500

2000

2500

3000

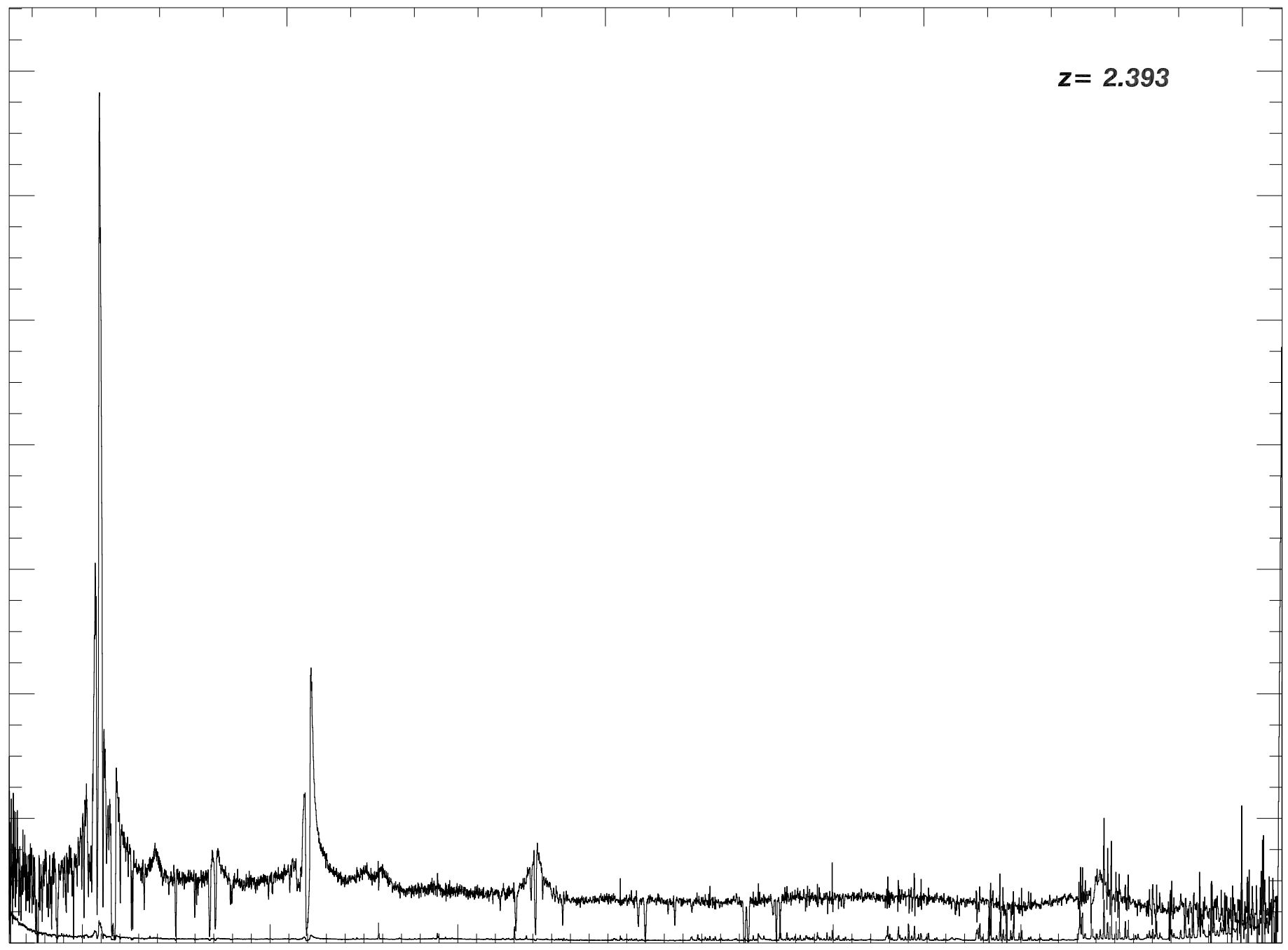
Flux ( $10^{-17}$  ergs  $s^{-1}$   $cm^{-2}$   $\text{\AA}^{-1}$ )

140  
120  
100  
80  
60  
40  
20  
0

**z = 2.393**

4000 5000 6000 7000 8000 9000 10000

*Observed Wavelength (Å)*



# SDSS\_J1152+6323\_MJD56663

Rest Wavelength (Å)

1100

1150

1200

1250

1300

$z = 2.3549$   
 $z = 2.393$

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

150

100

50

0

-2  
-1  
0  
1

P.V. 1118 0.0

Fe III 1123 0.0

Fe III\* 1126 0.7

Fe III\* 1131 0.9

Fe III\* 1125 0.4

C III\* 1176 52.4

Si III 1190 0.0

Si III\* 1195 0.3

Si II 1193 0.0

Si III\* 1197 0.3

Si III 1207 0.0

H I 1216 0.0

N V 1243 0.0

N V 1239 0.0

Si II 1260 0.0

Si III\* 1265 0.3

C I 1277 0.0

C III\* 1278 0.04

O I 1302 0.0

Si II 1304 0.0

Si III\* 1309 0.3

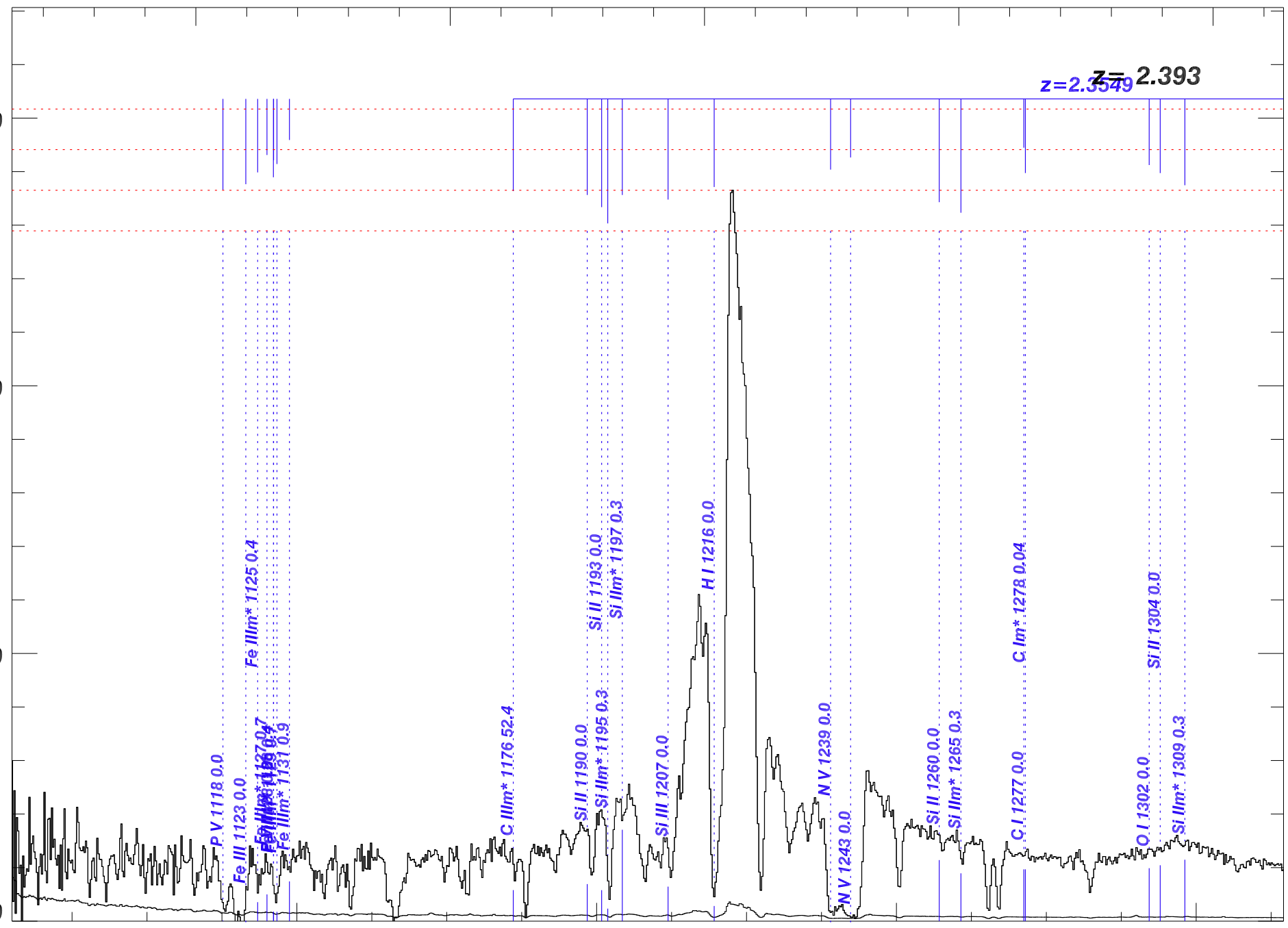
3800

4000

4200

4400

Observed Wavelength (Å)



# SDSS\_J1152+6323\_MJD56663

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

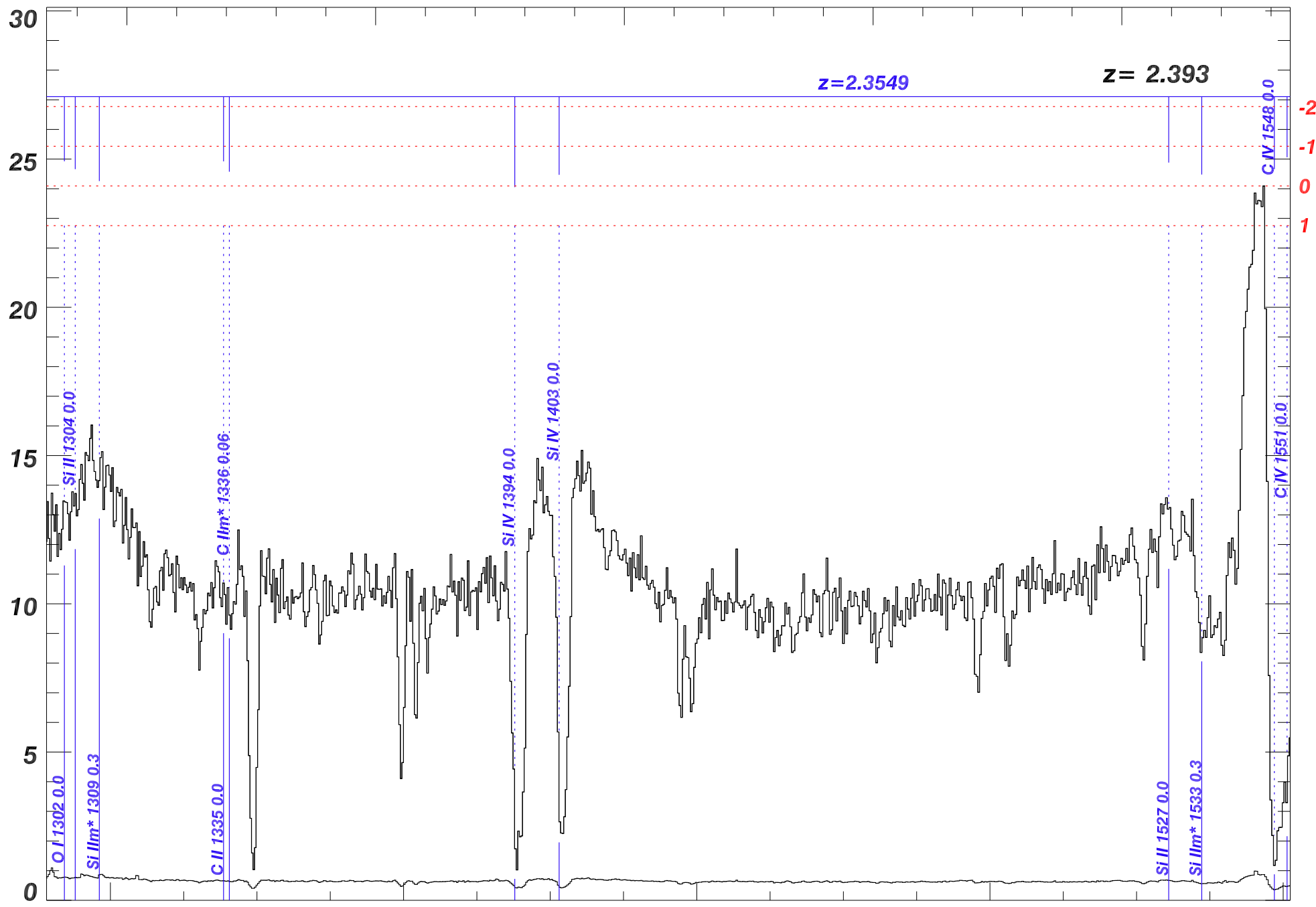
1300

1350

1400

1450

1500



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

4400

4600

4800

5000

5200

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

$z = 2.3549$

$z = 2.393$

-2  
-1  
0  
1

# SDSS\_J1152+6323\_MJD56663

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

1550

1600

1650

1700

1750

$z=2.3549$

$z=2.393$

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

50  
40  
30  
20  
10  
0

-2  
-1  
0  
1

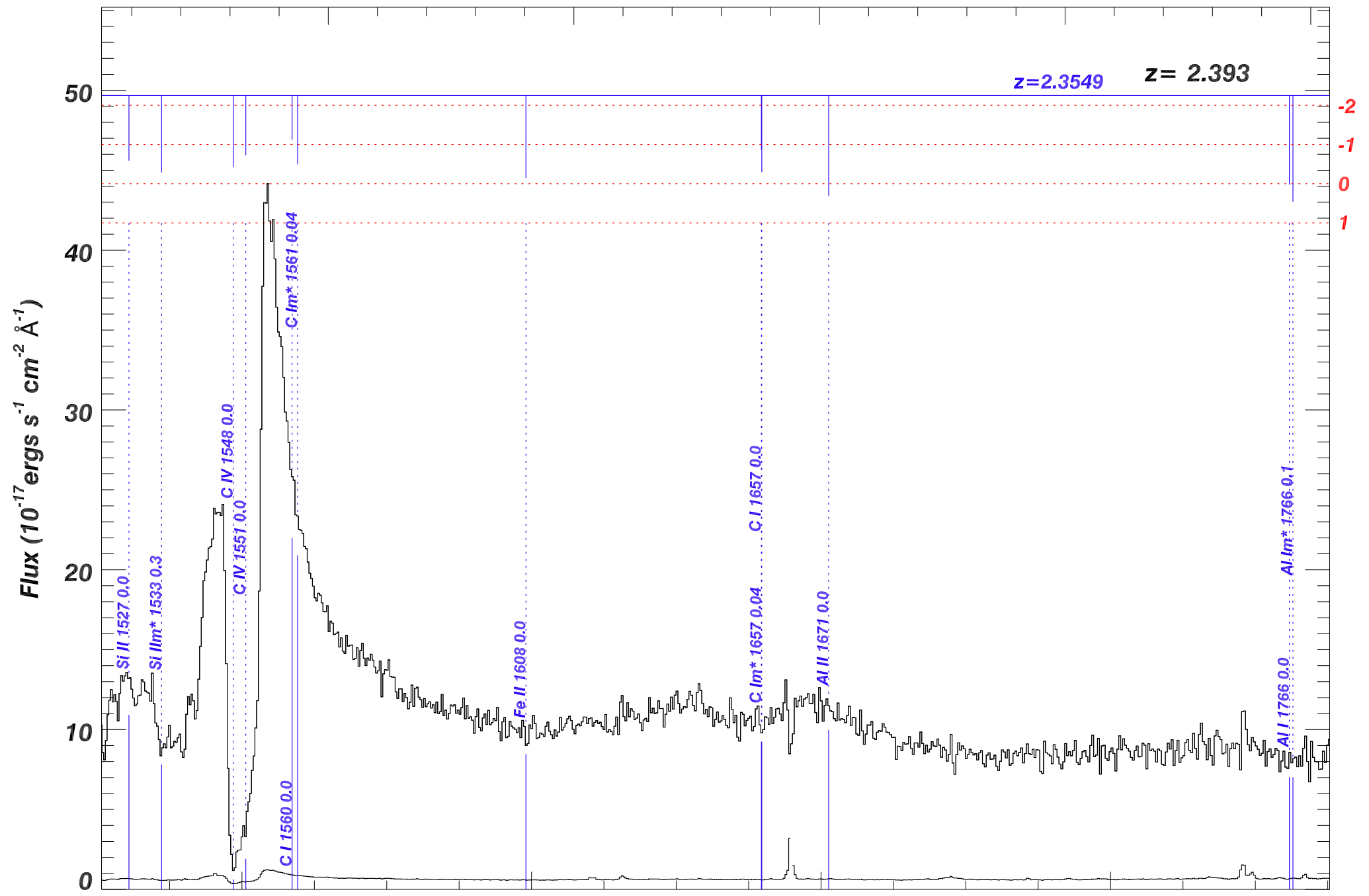
5200

5400

5600

5800

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



# SDSS\_J1152+6323\_MJD56663

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

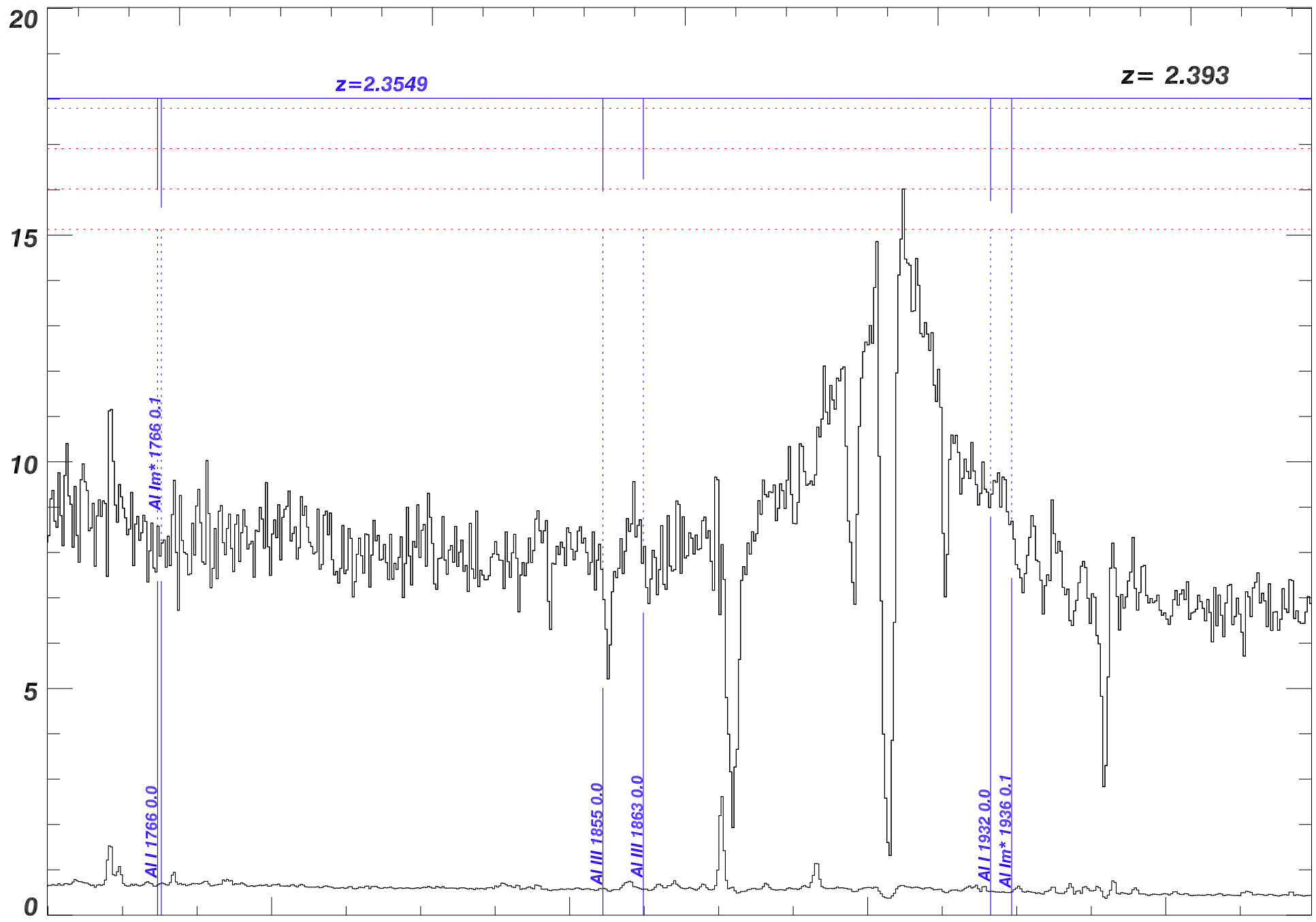
1750

1800

1850

1900

1950



6000

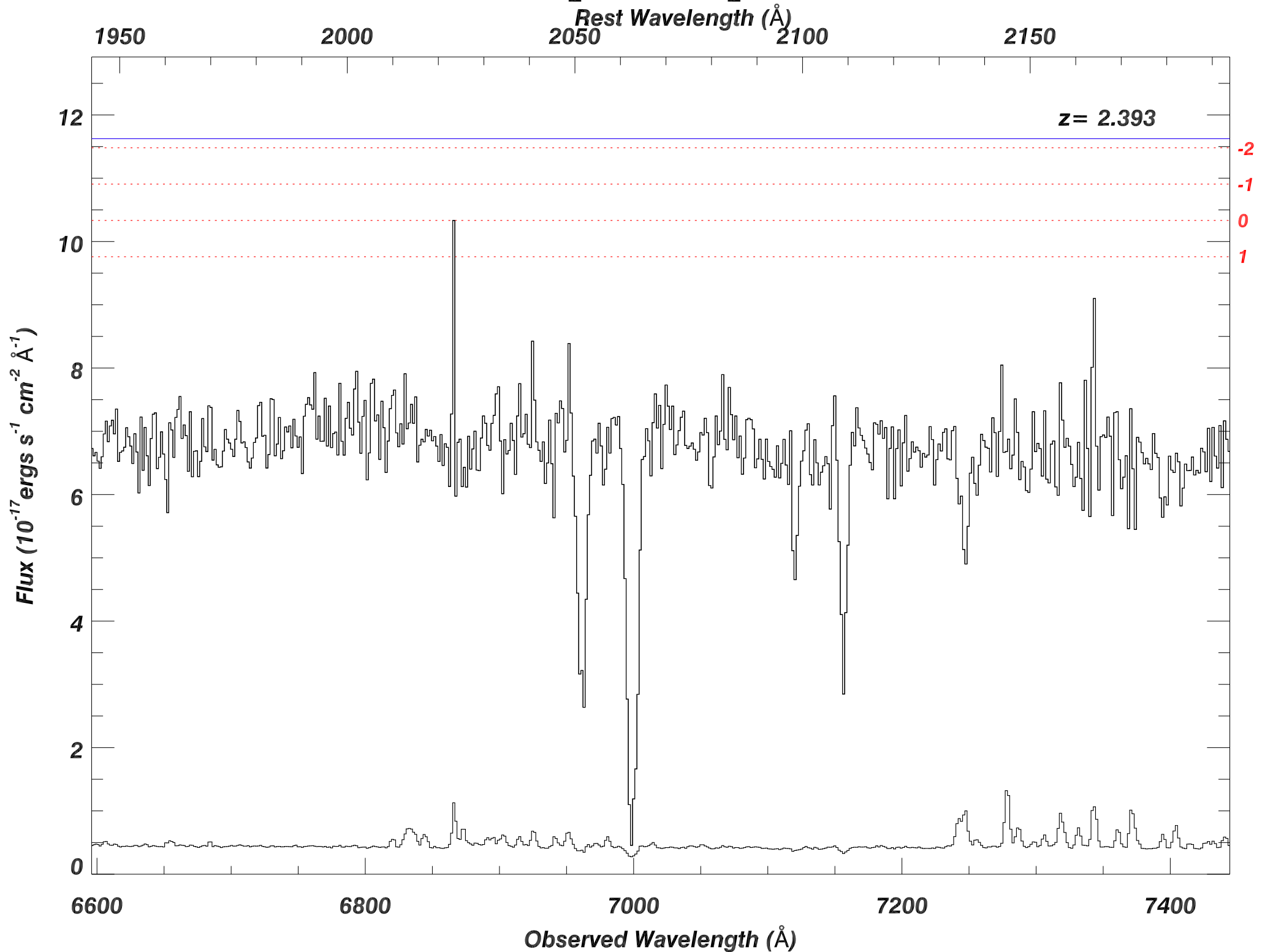
6200

6400

6600

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

# SDSS\_J1152+6323\_MJD56663



# SDSS\_J1152+6323\_MJD56663

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

2200

2250

2300

2350

2400

15

$z=2.3549$

$z=2.393$

-2  
-1  
0  
1

10

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

5

0

7400

7600

7800

8000

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 III\* 2400 0.7

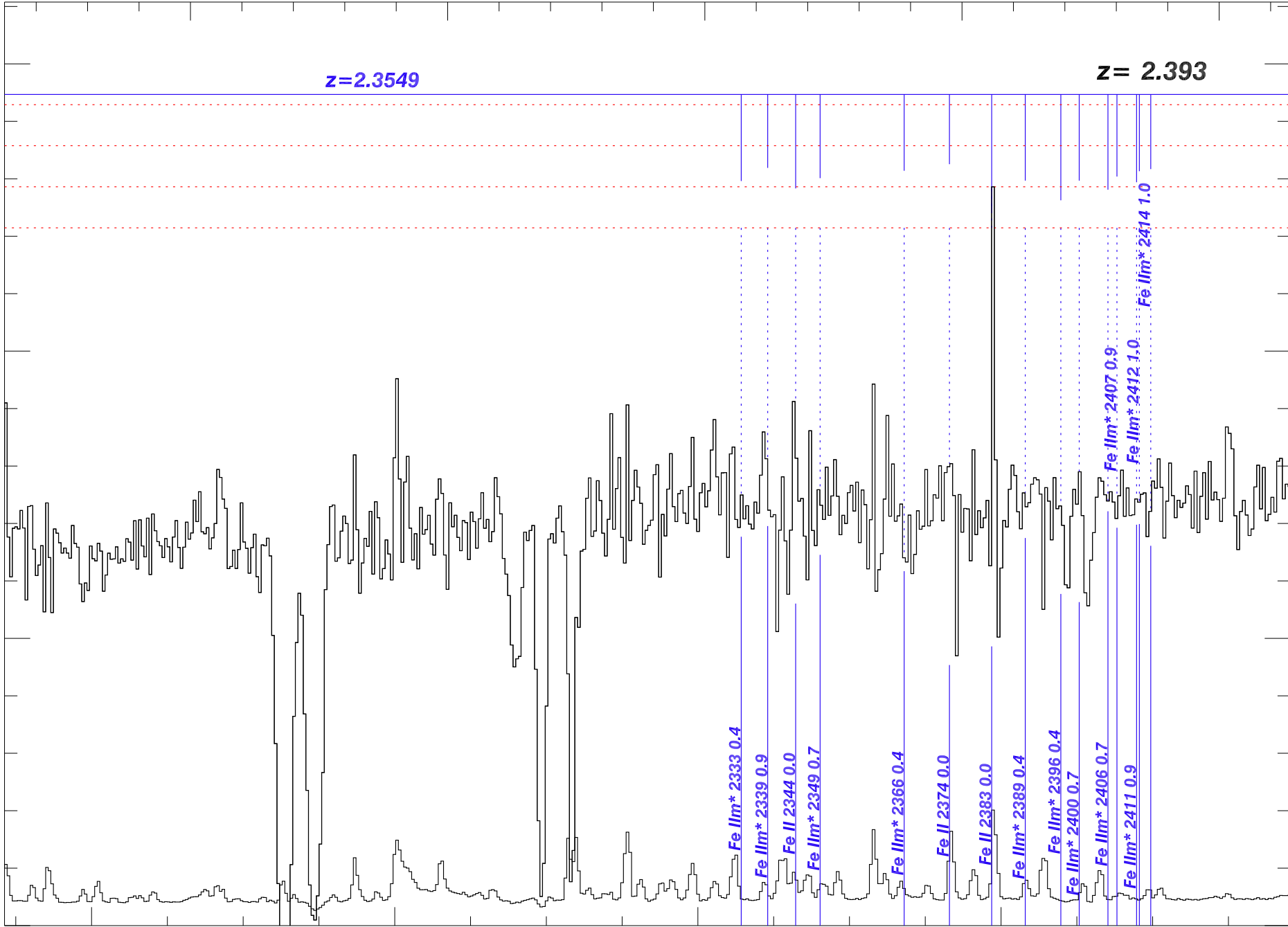
Fe III\* 2406 0.7

Fe III\* 2411 0.9

Fe III\* 2407 0.9

Fe III\* 2412 1.0

Fe III\* 2414 1.0



# SDSS\_J1152+6323\_MJD56663

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

2400

2450

2500

2550

2600

$z=2.3549$

$z= 2.393$

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

12

10

8

6

4

2

0

-2

-1

0

1

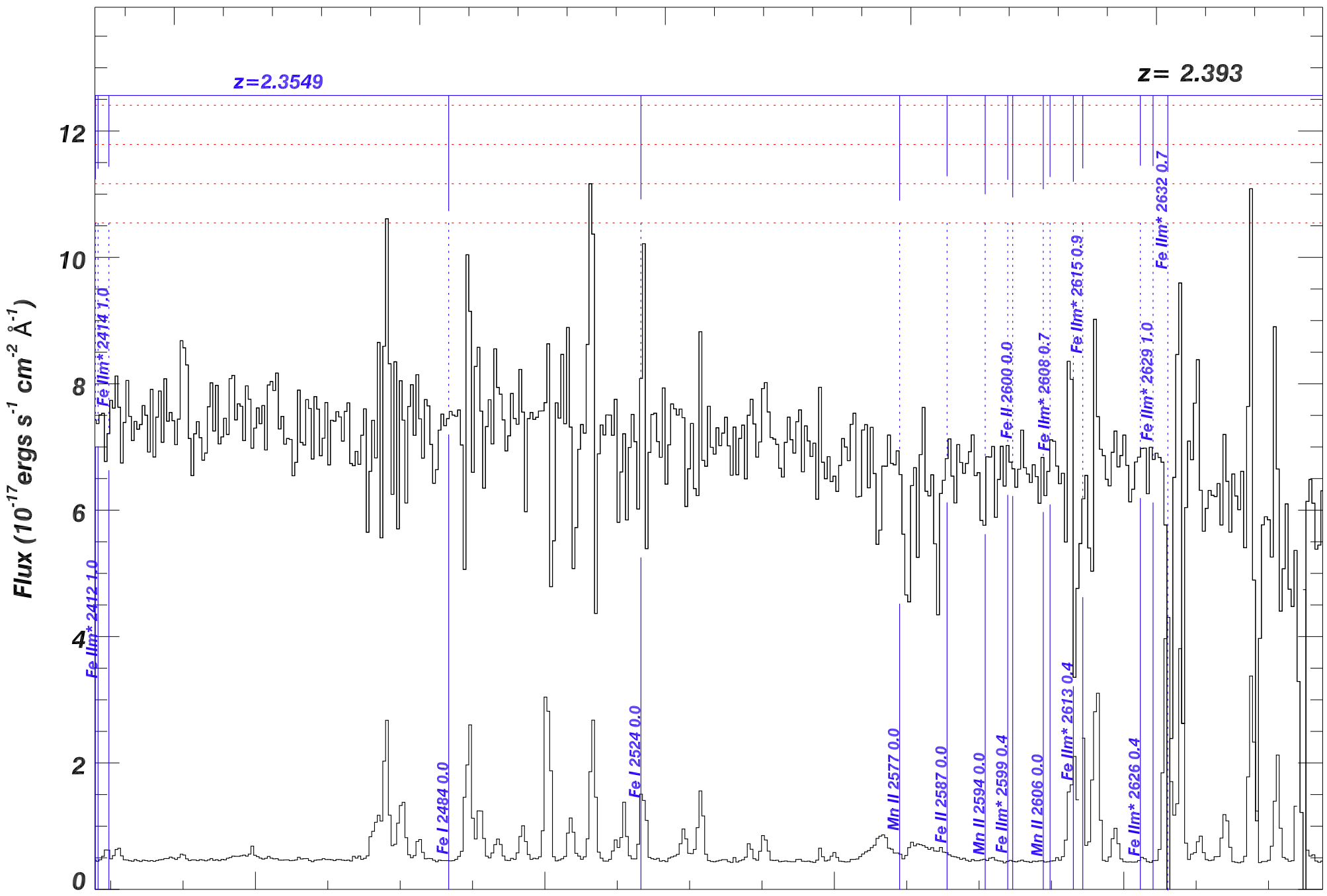
8200

8400

8600

8800

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





# SDSS\_J1152+6323\_MJD56663

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

2650

2700

2750

2800

2850

$z=2.3549$

$z= 2.393$

-2

-1

0

1

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

25

20

15

10

5

0

9000

9200

9400

9600

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

Mg II 2796 0.0

Mg II 2804 0.0

Mg I 2853 0.0

# SDSS\_J1152+6323\_MJD56663

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

2850

2900

2950

3000

3050

$z=2.3549$

$z = 2.393$

-2

-1

0

1

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

100

80

60

40

20

0

He I m\* 2946 159.9

$9.60 \times 10^3$

$9.80 \times 10^3$

$1.00 \times 10^4$

$1.02 \times 10^4$

$1.04 \times 10^4$

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

