

**SDSS\_J1319+4222\_MJD53112**

*Rest Wavelength (Å)*

2500

3000

3500

4000

4500

5000

5500

**$z = 0.6418$**

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

80

60

40

20

0

4000

5000

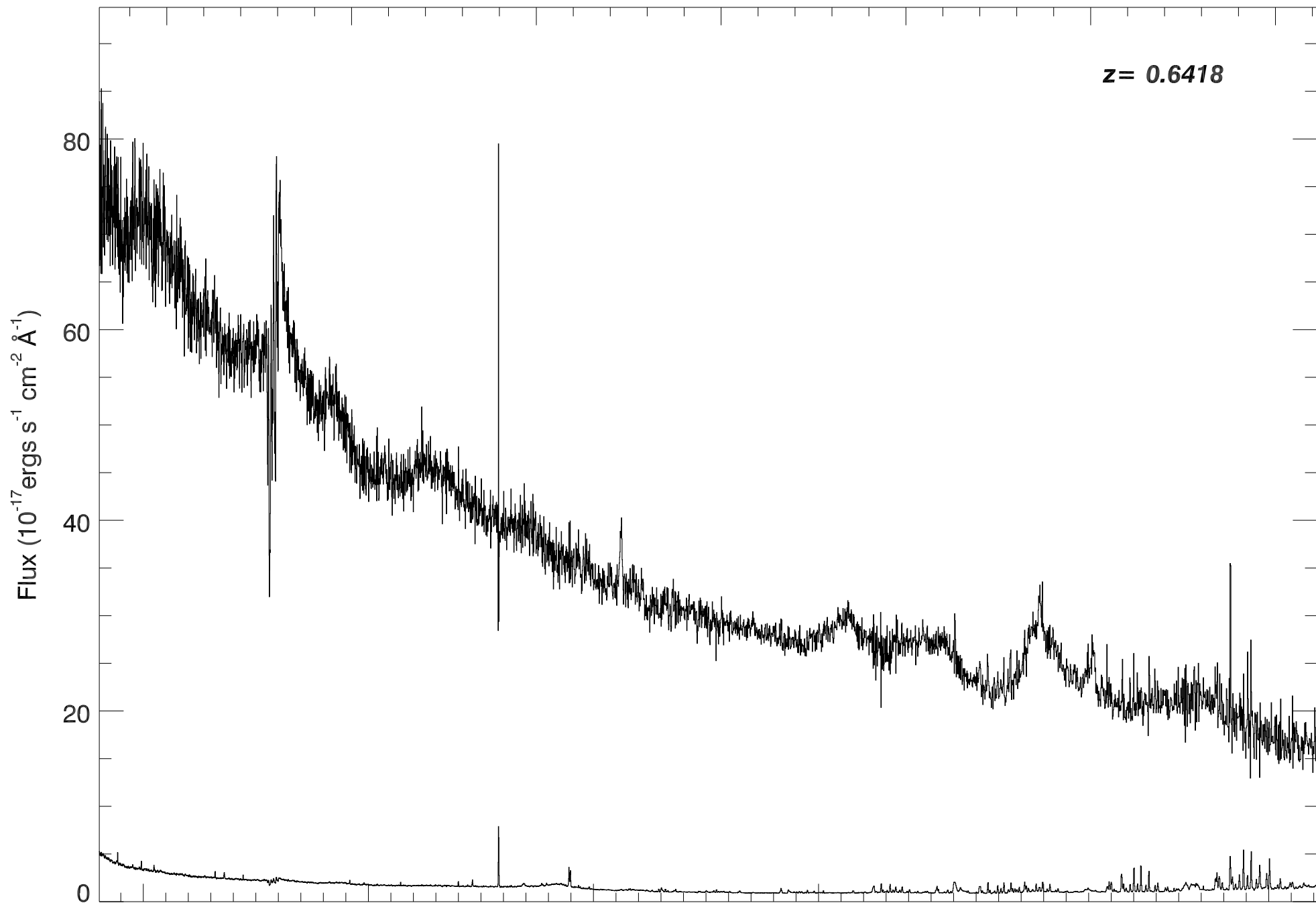
6000

7000

8000

9000

***Observed Wavelength (Å)***



# SDSS\_J1319+4222\_MJD53112

Rest Wavelength (Å)

2350

2400

2450

2500

2550

$z=0.6308$

$z=0.6418$

100

-2

-1

0

1

80

60

40

20

0

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

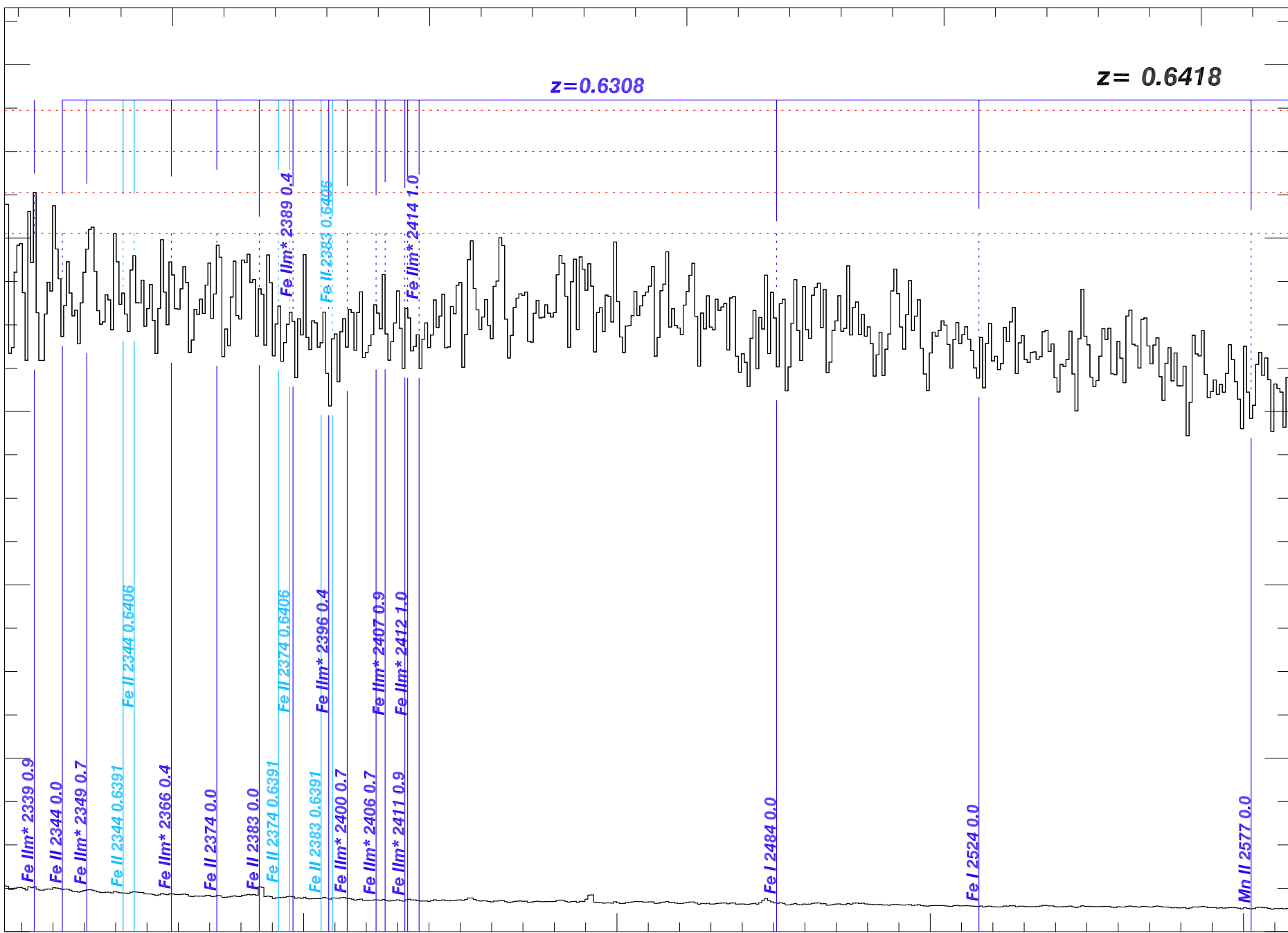
3900

4000

4100

4200

Observed Wavelength (Å)



## SDSS\_J1319+4222\_MJD53112

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

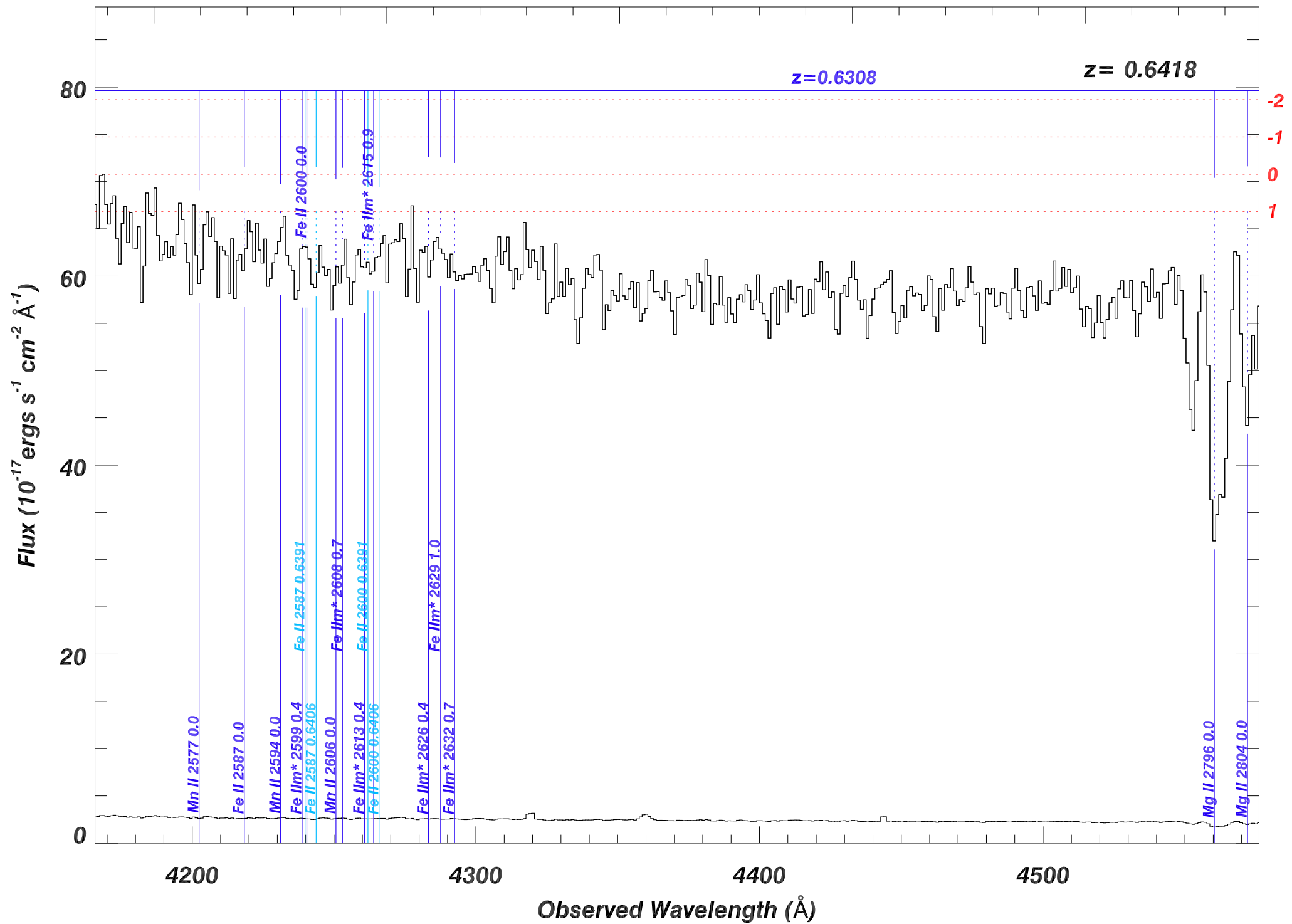
2550

2600

2650

2700

2750



# SDSS\_J1319+4222\_MJD53112

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

2800

2850

2900

2950

3000

$z = 0.6308$   
 $z = 0.6418$

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

80

60

40

20

0

-2

-1

0

1

Mg II 2796 0.0

Mg II 2804 0.0

Mg II 2796 0.6391

Mg II 2804 0.6391

Mg II 2804 0.6406

Mg I 2853 0.0

Mg I 2853 0.6391

Mg I 2853 0.6406

He I m\* 2946 159.9

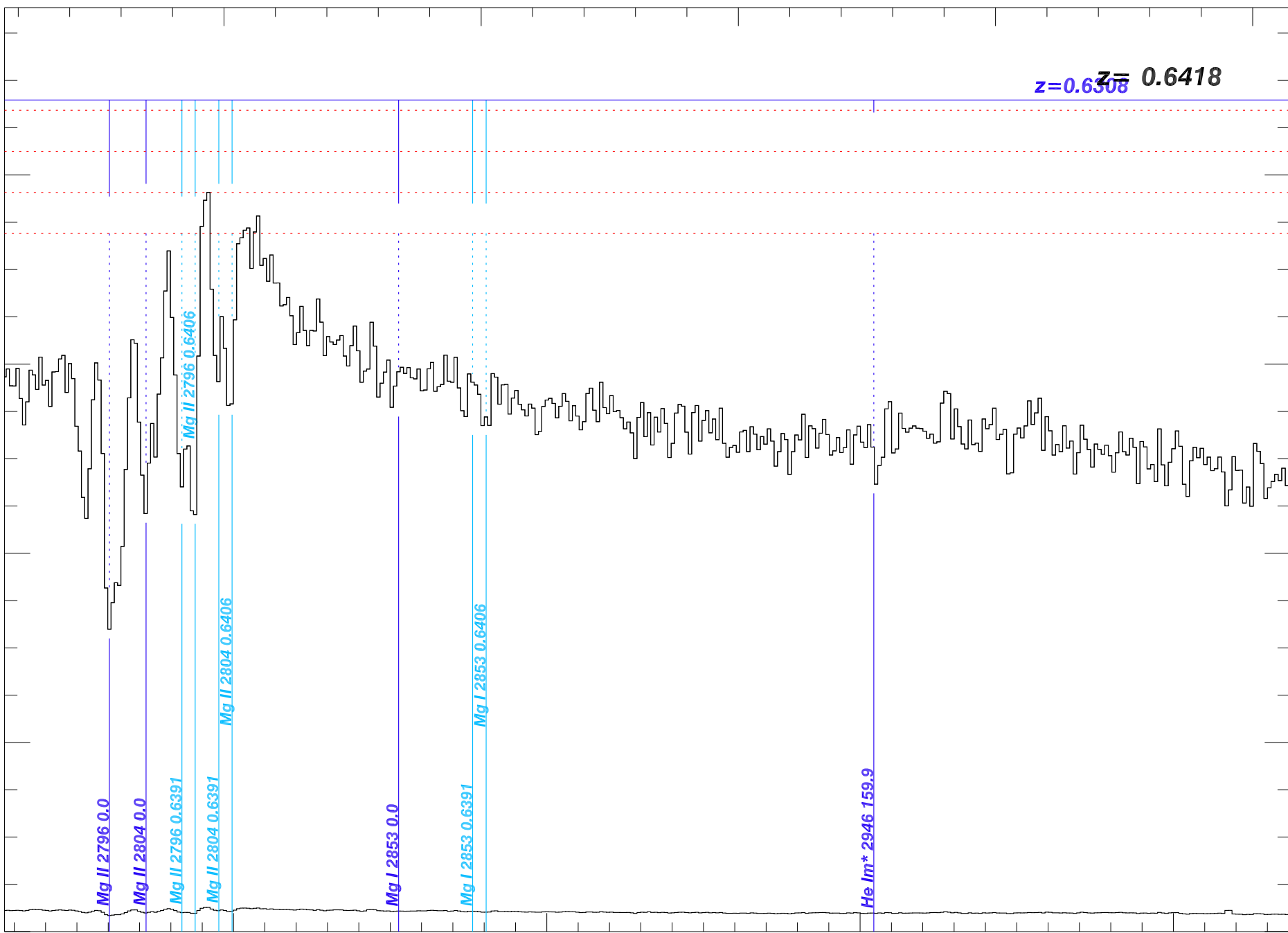
4600

4700

4800

4900

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



# SDSS\_J1319+4222\_MJD53112

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

3000

3050

3100

3150

3200

$z=0.6308$

$z=0.6418$

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

60

50

40

30

20

10

0

-2

-1

0

1

He I m\* 3189 159.9

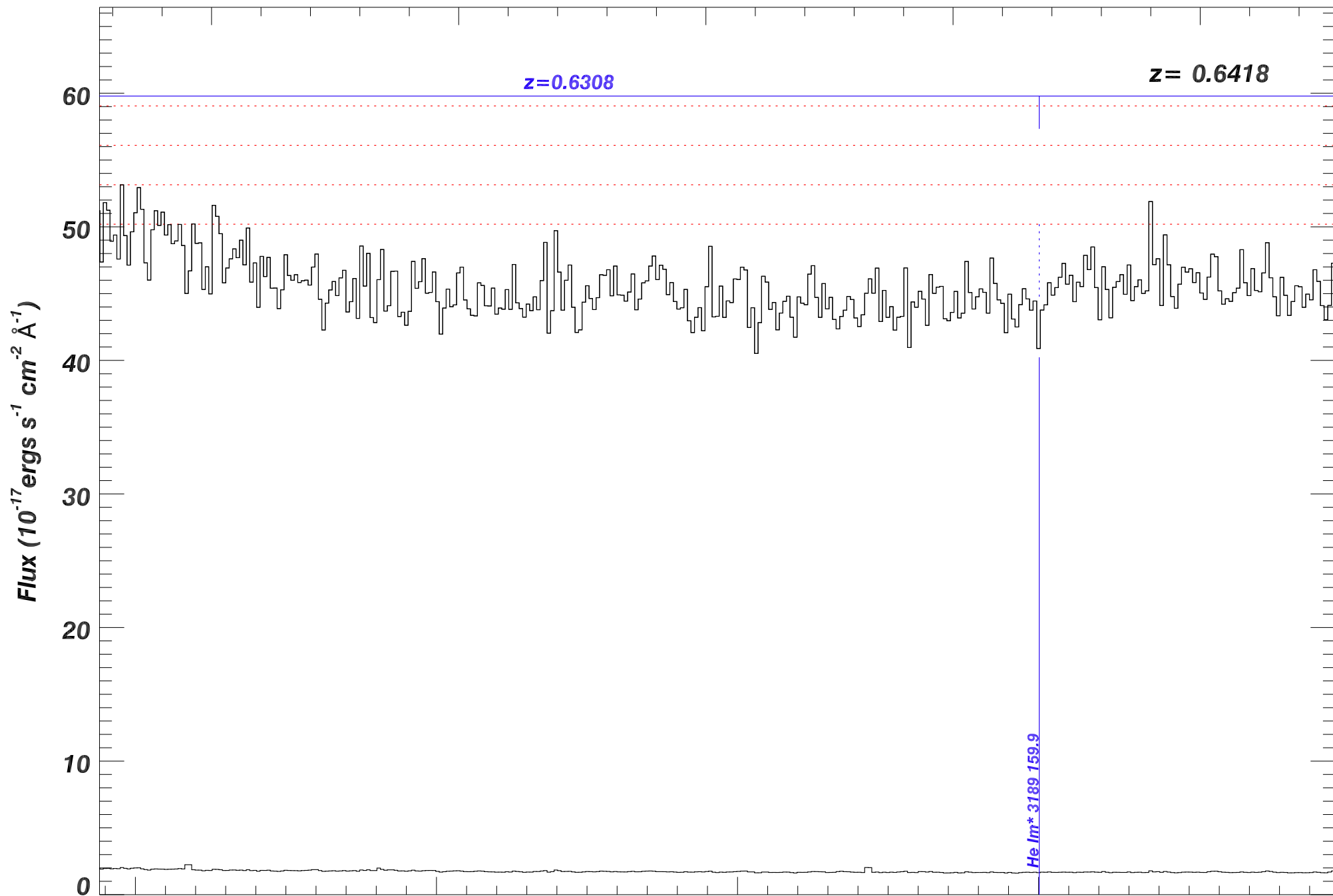
4900

5000

5100

5200

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



# SDSS\_J1319+4222\_MJD53112

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

3200

3300

3400

3500

$z = 0.6418$

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

80

60

40

20

0

-2

-1

0

1

5300

5400

5500

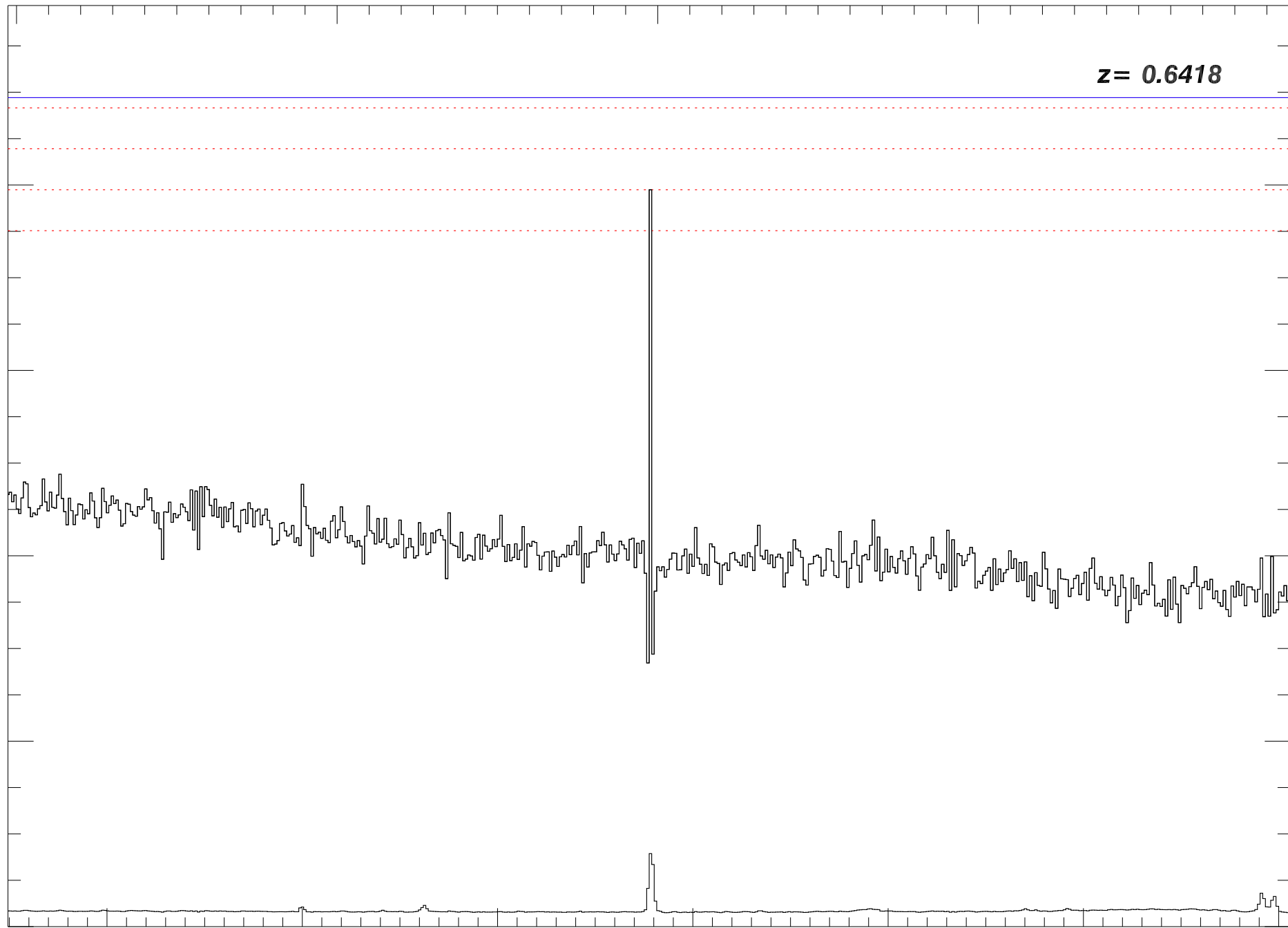
5600

5700

5800

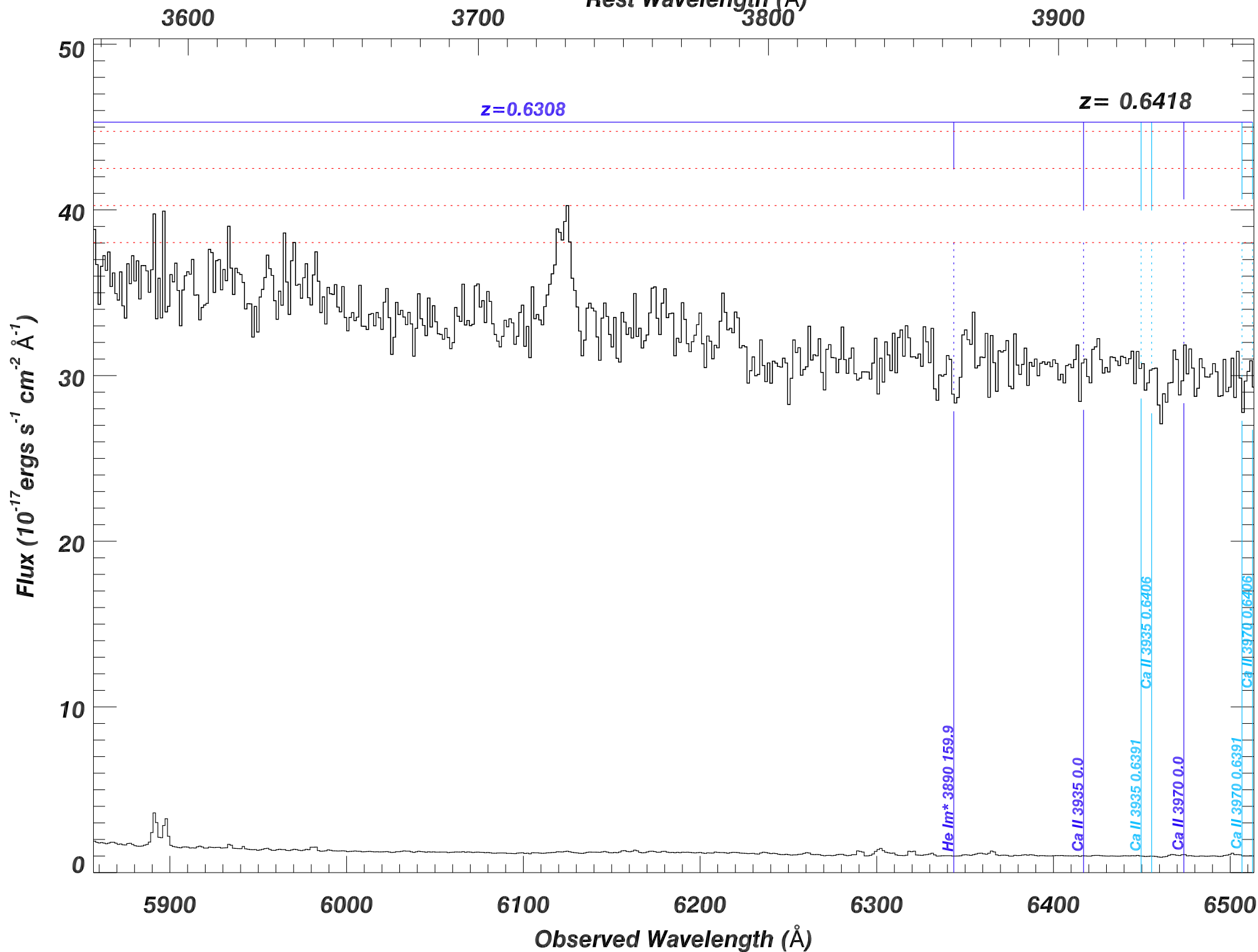
5900

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



# SDSS\_J1319+4222\_MJD53112

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



# SDSS\_J1319+4222\_MJD53112

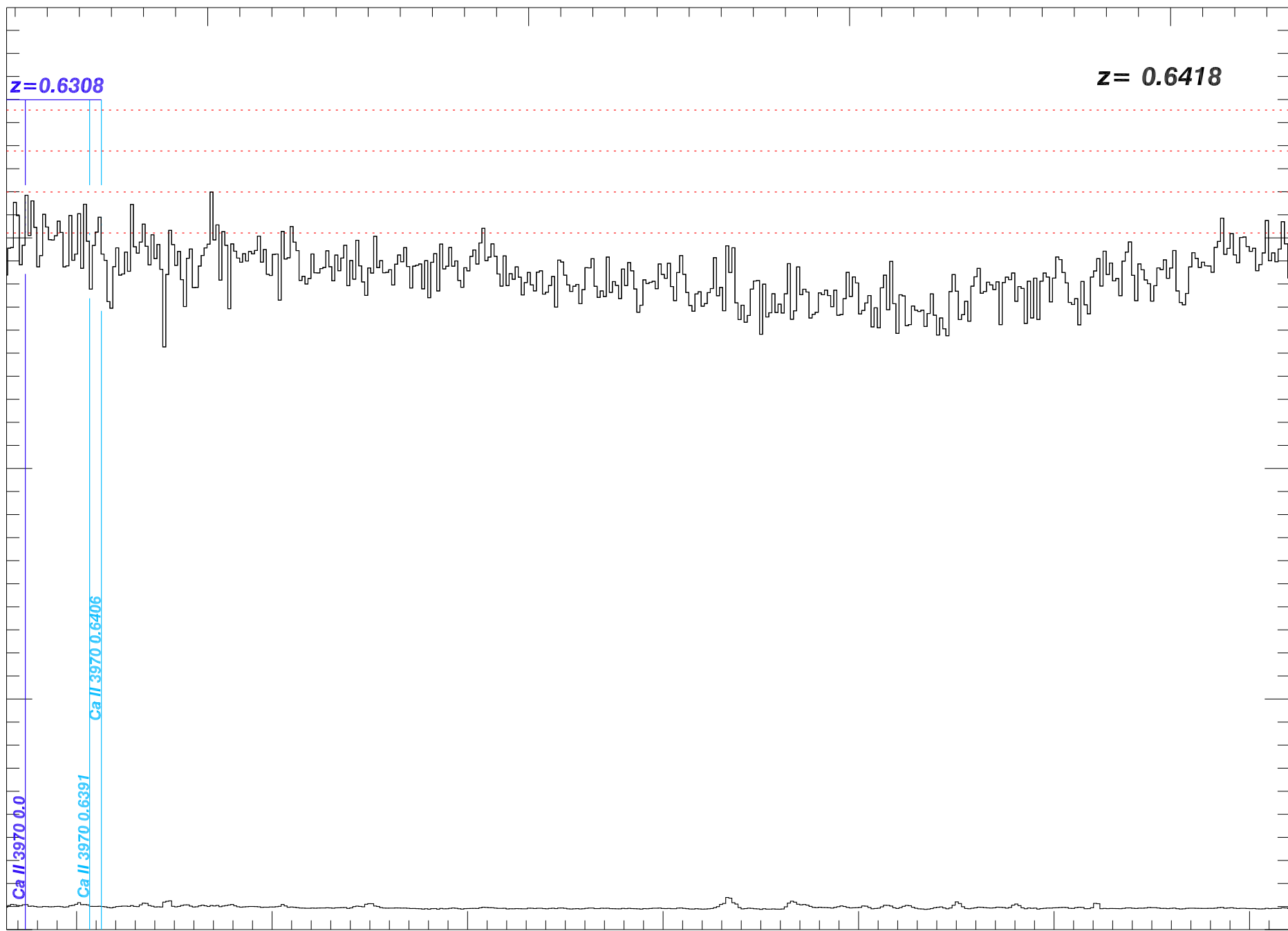
Rest Wavelength ( $\text{\AA}$ )

4000

4100

4200

4300



$z = 0.6308$

$z = 0.6418$

-2  
-1  
0  
1

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

30

20

10

0

6500

6600

6700

6800

6900

7000

7100

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

Ca II 3970 0.0

Ca II 3970 0.6391

Ca II 3970 0.6406



# SDSS\_J1319+4222\_MJD53112

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

4400

4500

4600

4700

$z = 0.6418$

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

30

20

10

0

-2

-1

0

1

7100

7200

7300

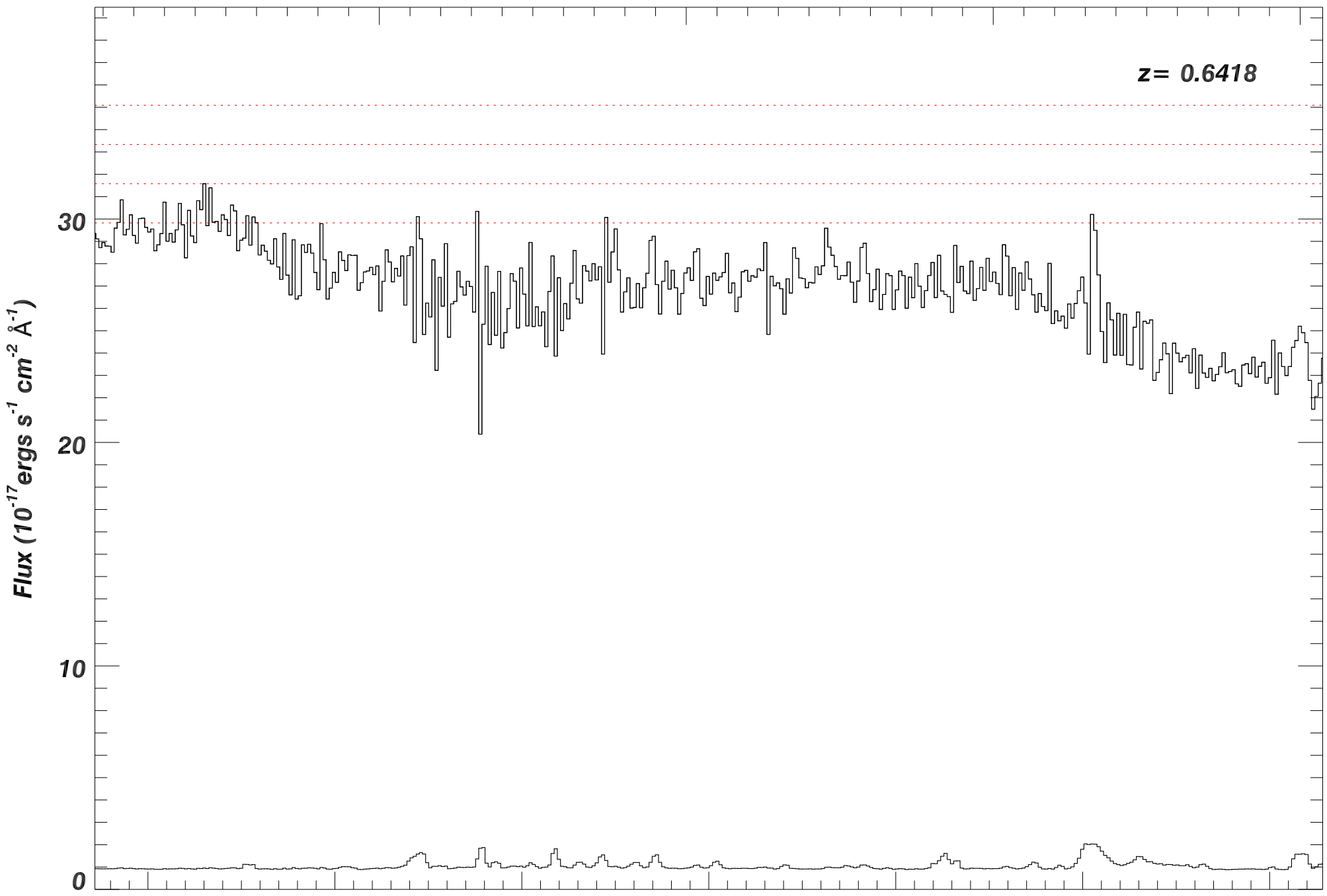
7400

7500

7600

7700

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



# SDSS\_J1319+4222\_MJD53112

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

4700

4800

4900

5000

$z = 0.6418$

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

40

30

20

10

0

-2

-1

0

1

7700

7800

7900

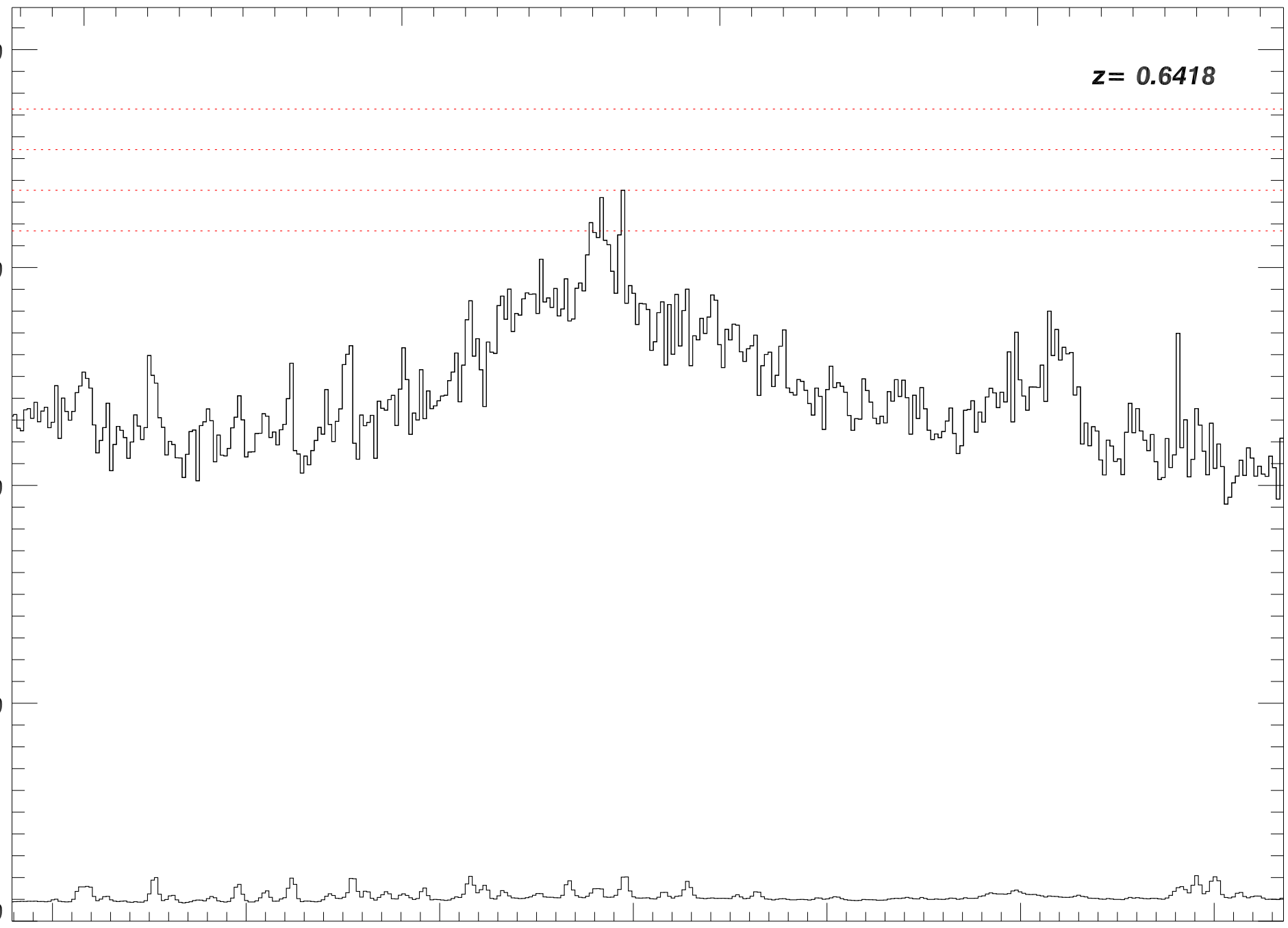
8000

8100

8200

8300

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



# SDSS\_J1319+4222\_MJD53112

