

**SDSS\_J0909+2938\_MJD56337**

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

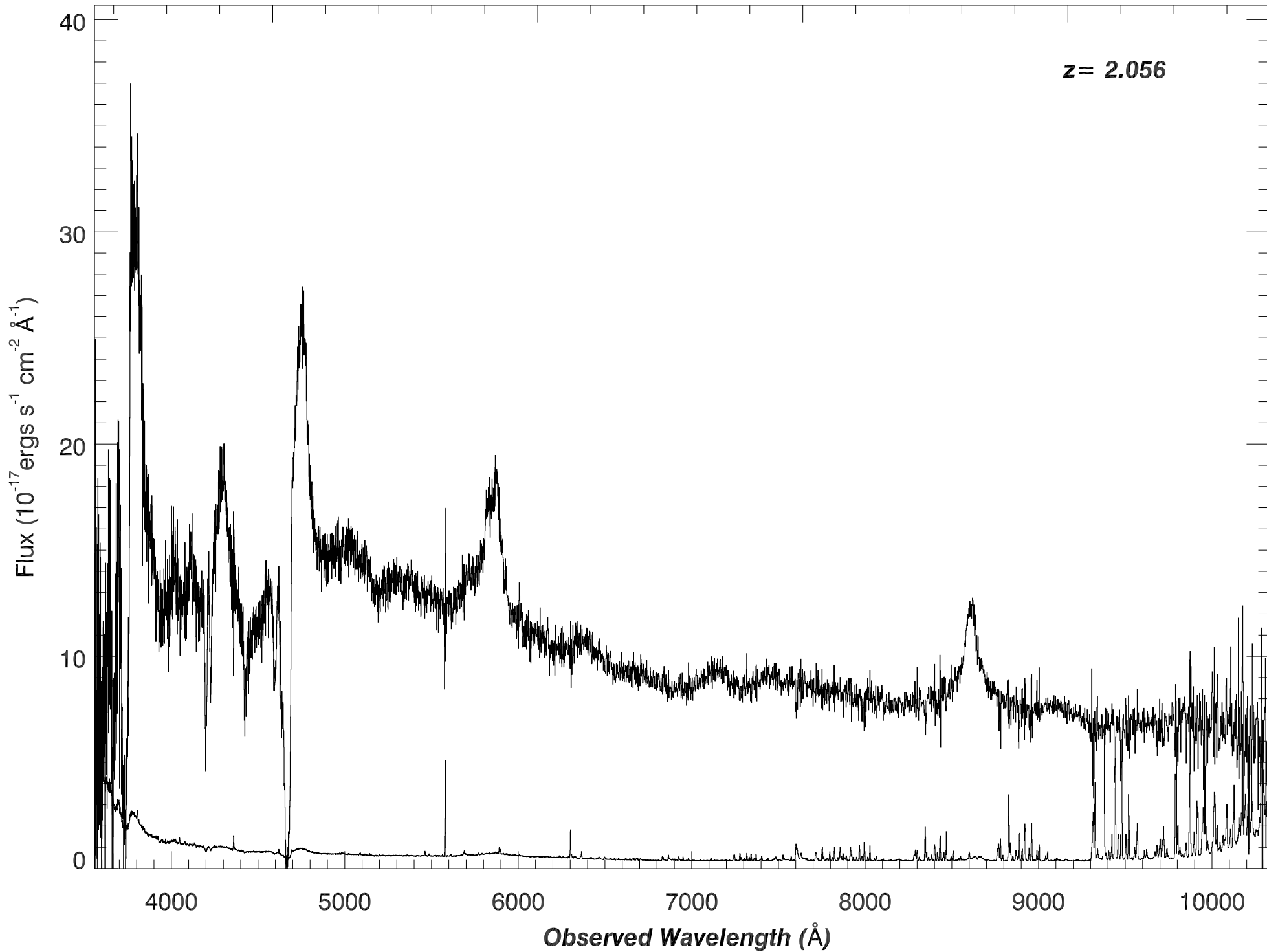
**1500**

**2000**

**2500**

**3000**

**$z = 2.056$**



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

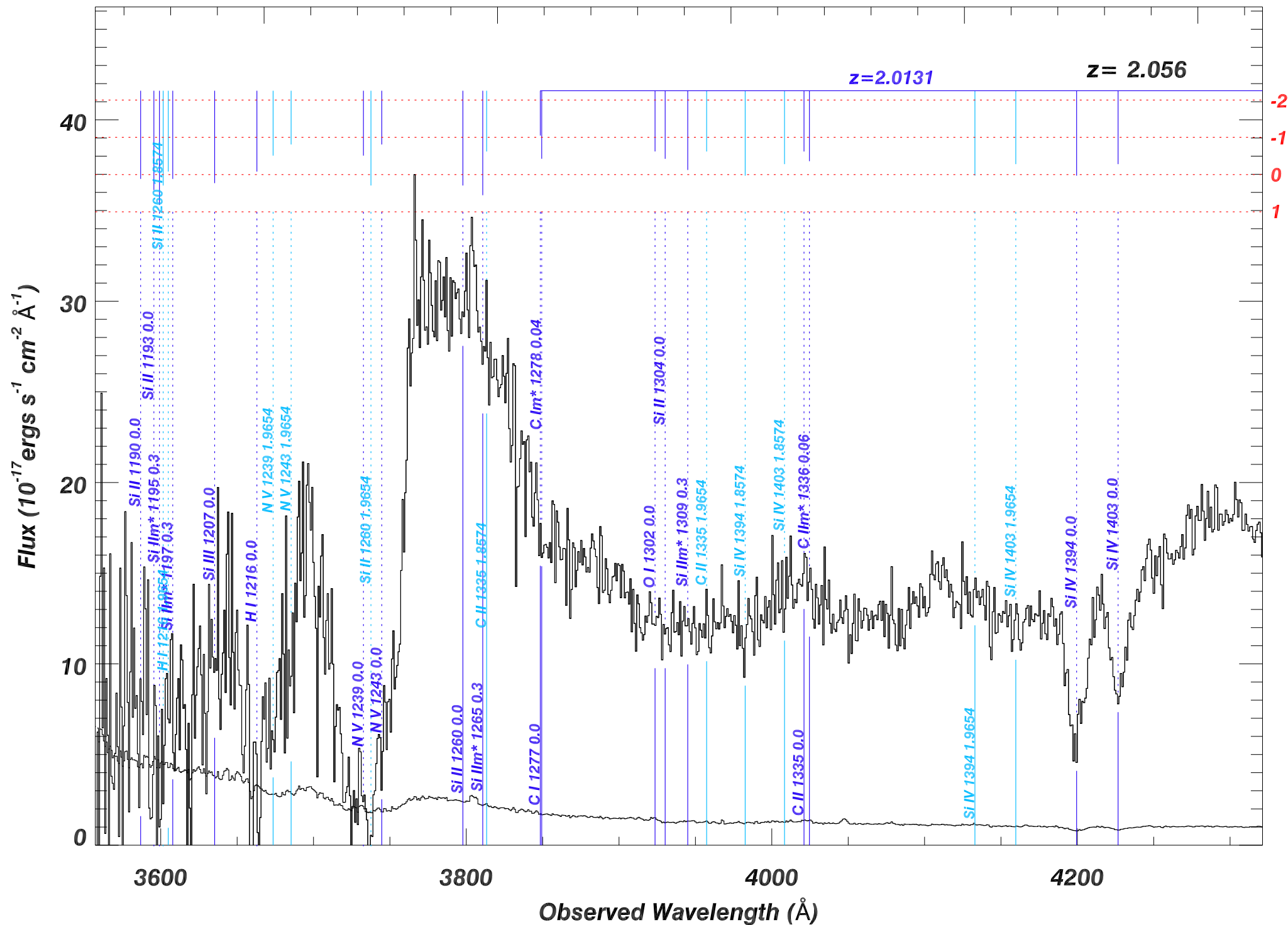
1200

1250

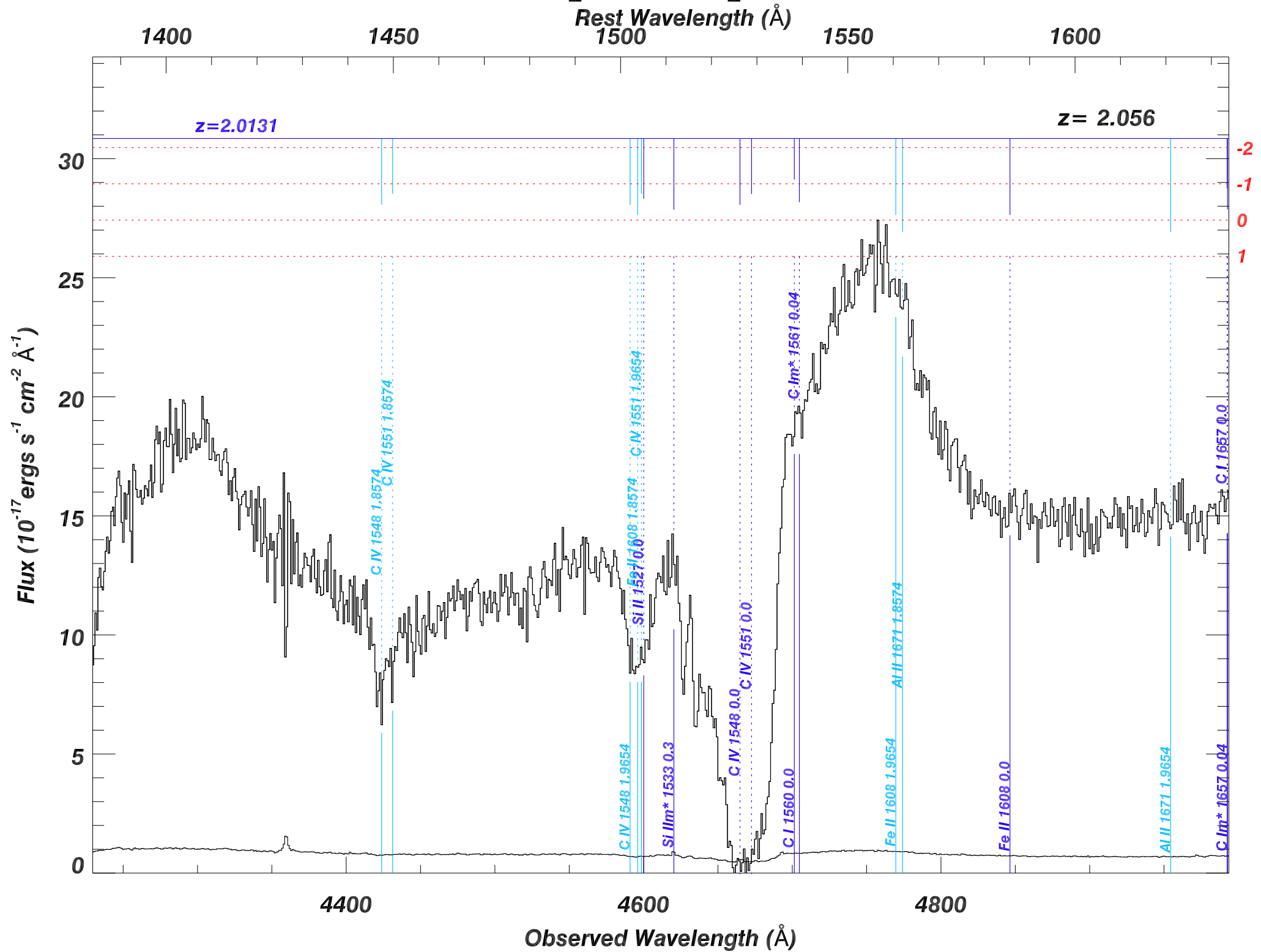
1300

1350

1400

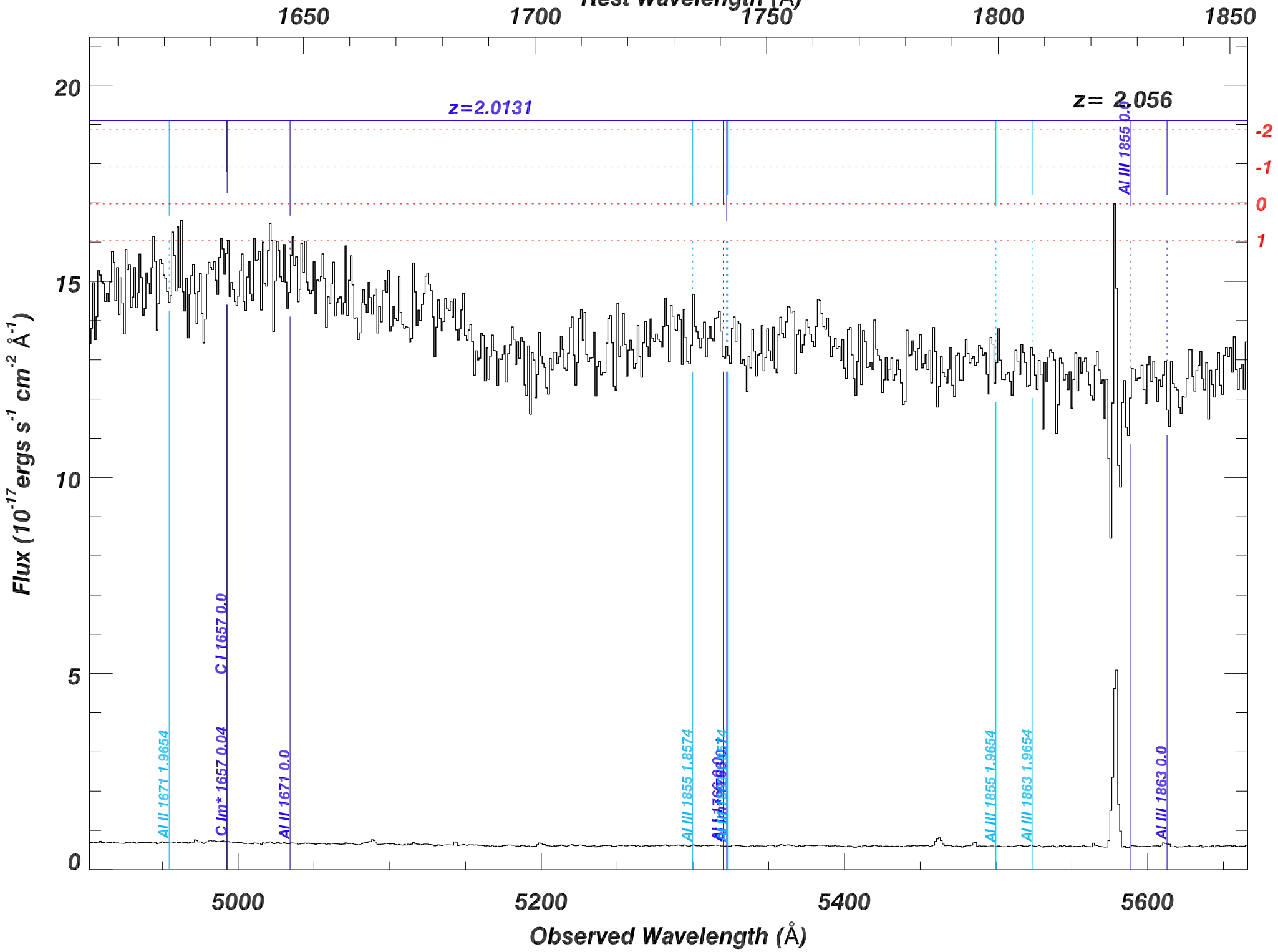


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Rest Wavelength ( $\text{\AA}$ )



**SDSS\_J0909+2938\_MJD56337**

*Rest Wavelength (Å)*

1850

1900

1950

2000

2050

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

20

15

10

5

0

$z=2.0131$

$z=2.056$

-2

-1

0

1

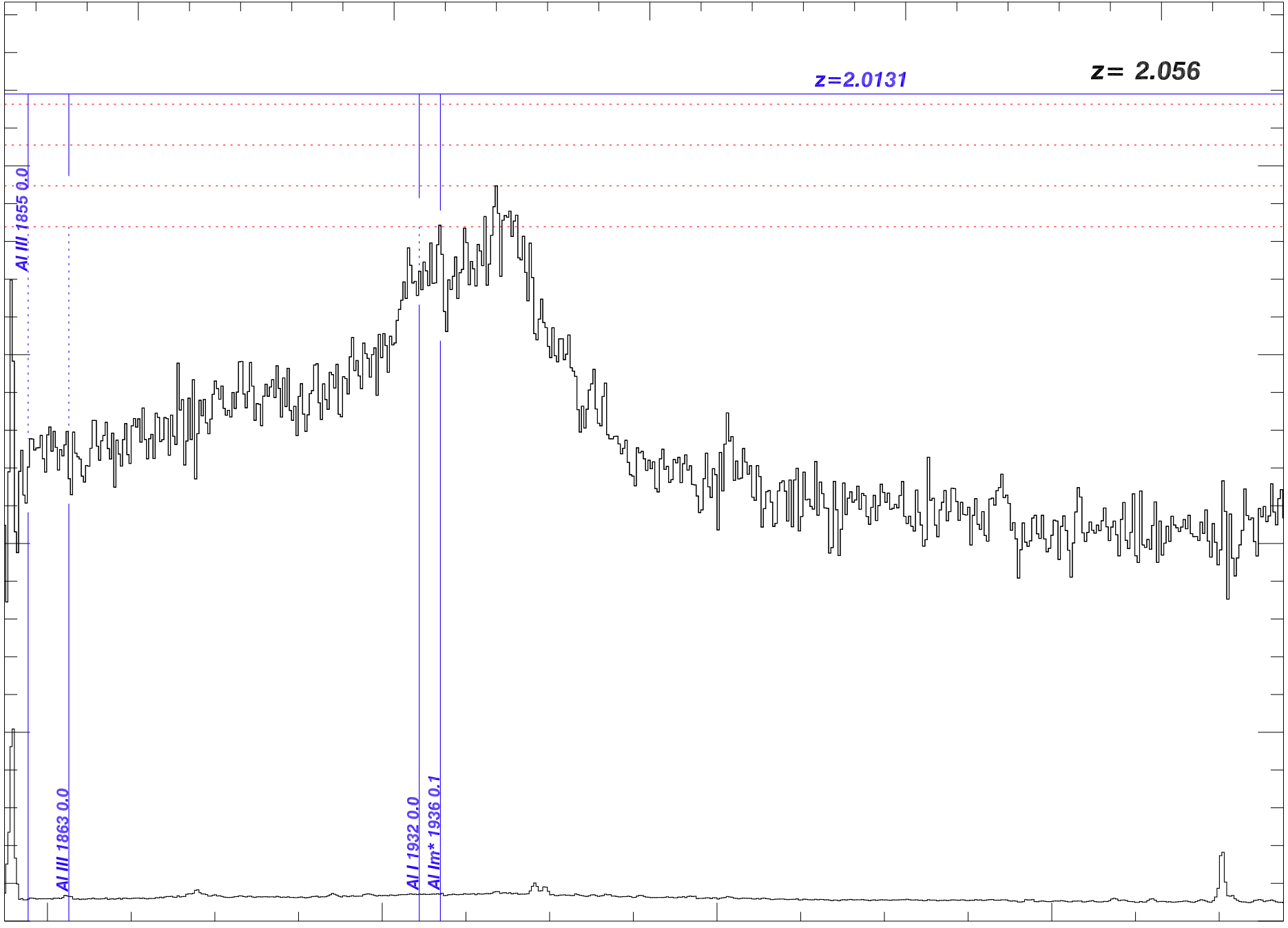
5600

5800

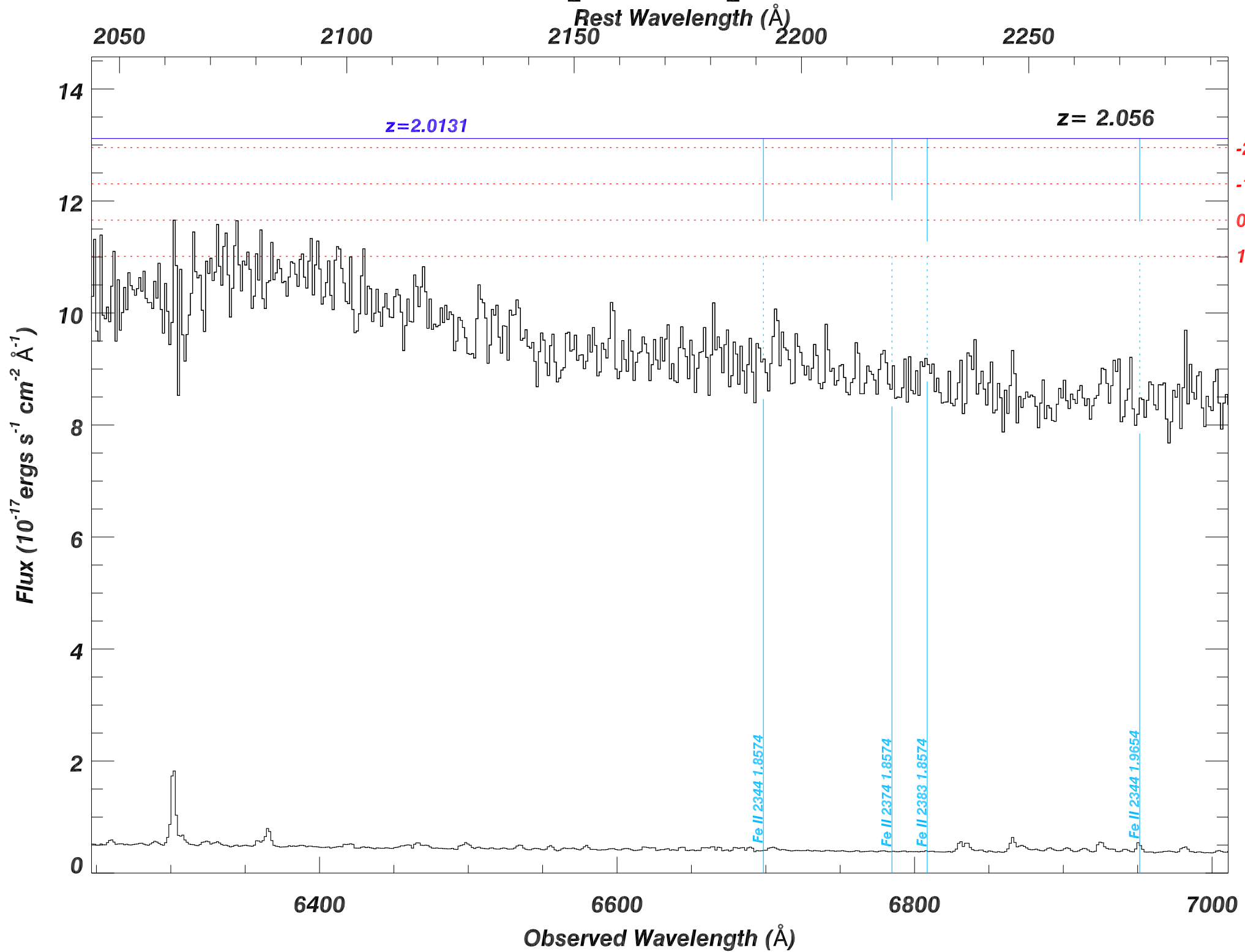
6000

6200

*Observed Wavelength (Å)*



# SDSS\_J0909+2938\_MJD56337



# SDSS\_J0909+2938\_MJD56337

Rest Wavelength (Å)

2300

2350

2400

2450

2500

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

12

10

8

6

4

2

0

$z=2.013$   $z=2.056$

-2

-1

0

1

Fe II 2344 1.9654

Fe II\* 2333 0.4

Fe II\* 2339 0.9

Fe II 2344 0.0

Fe II\* 2349 0.7

Fe II\* 2366 0.4

Fe II 2374 0.0

Fe II 2383 0.0

Fe II\* 2389 0.4

Fe II\* 2396 0.4

Fe II\* 2400 0.7

Fe II\* 2406 0.7

Fe II\* 2411 0.9

Fe II\* 2412 1.0

Fe II\* 2414 1.0

Fe II 2587 1.8574

Fe II 2600 1.8574

Fe I 2484 0.0

Fe I 2524 0.0

Fe II 2587 1.9654

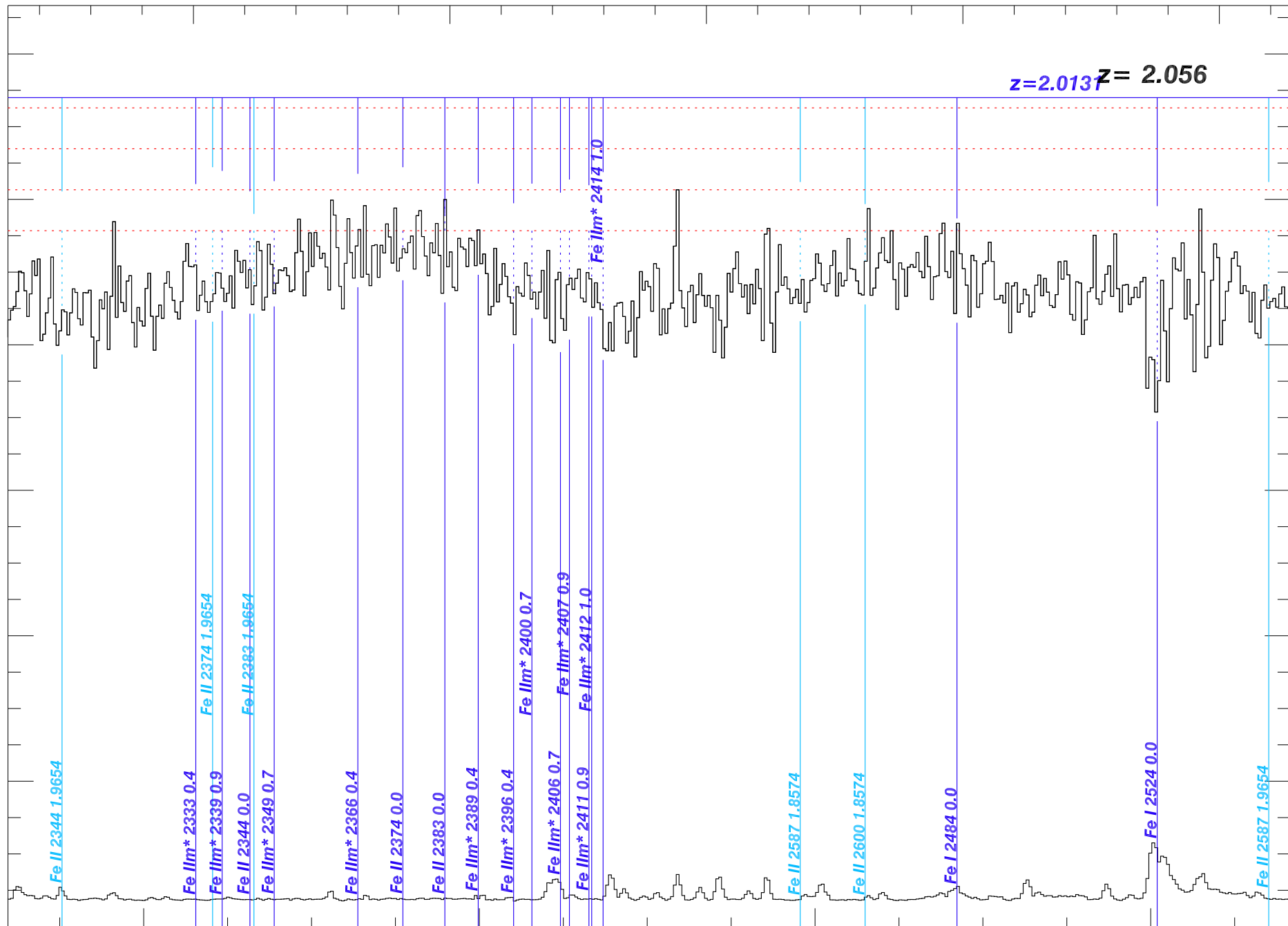
7000

7200

7400

7600

Observed Wavelength (Å)



# SDSS\_J0909+2938\_MJD56337

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

2500

2550

2600

2650

2700

12

10

8

6

4

2

0

$z=2.0131$

$z=2.056$

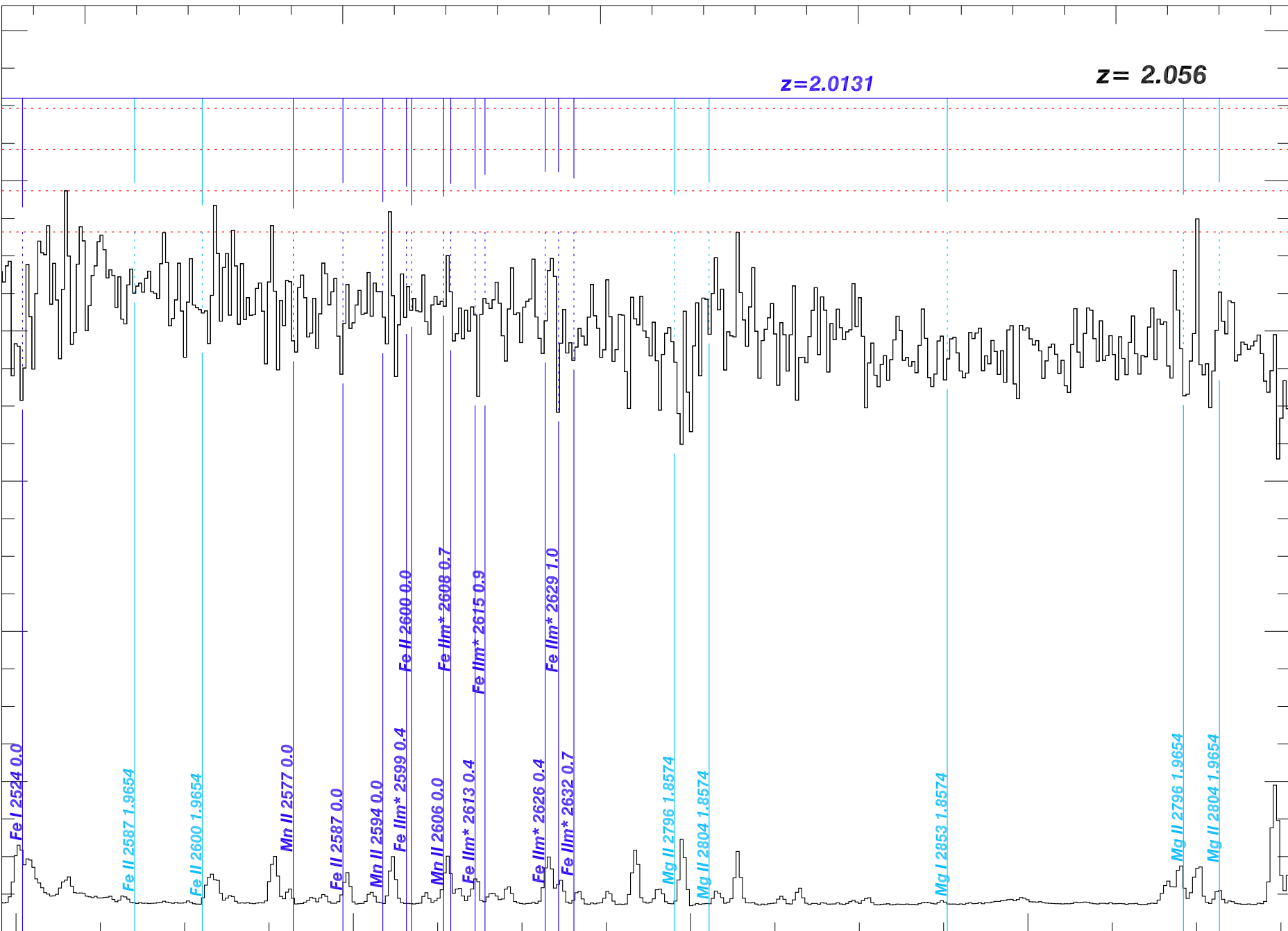
-2

-1

0

1

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



7600

7800

8000

8200

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



# SDSS\_J0909+2938\_MJD56337

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

2750

2800

2850

2900

2950

15

$z=2.0131$

$z=2.056$

-2

-1

0

1

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

10

5

0

Mg II 2796 1.9654

Mg II 2804 1.9654

Mg II 2796 0.0

Mg II 2804 0.0

Mg I 2853 1.9654

Mg I 2853 0.0

He I m\* 2946 159.9

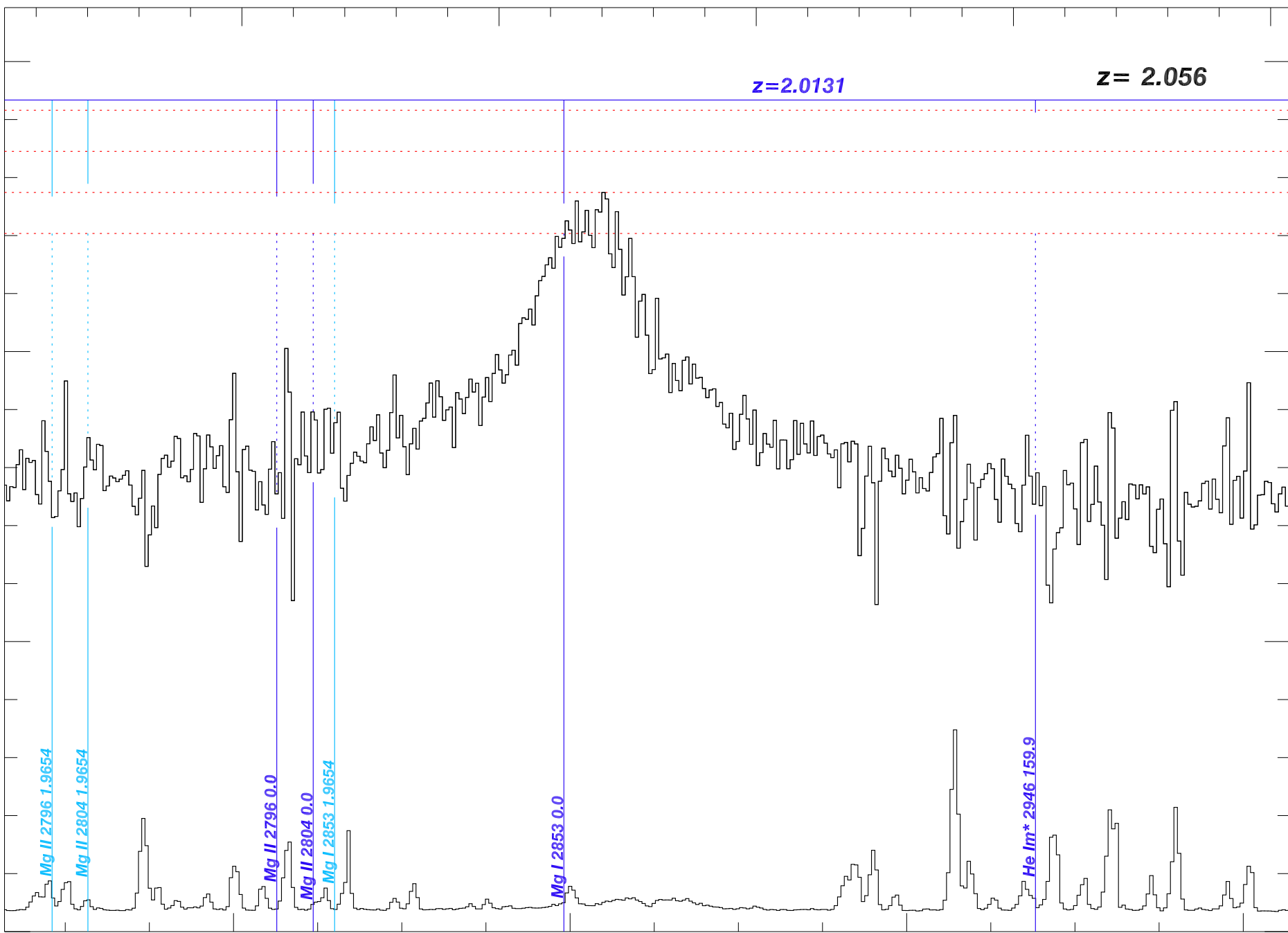
8400

8600

8800

9000

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



# SDSS\_J0909+2938\_MJD56337

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

2950

3000

3050

3100

3150

$z=2.0131$

$z=2.056$

-2

-1

0

1

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

10

8

6

4

2

0

9000

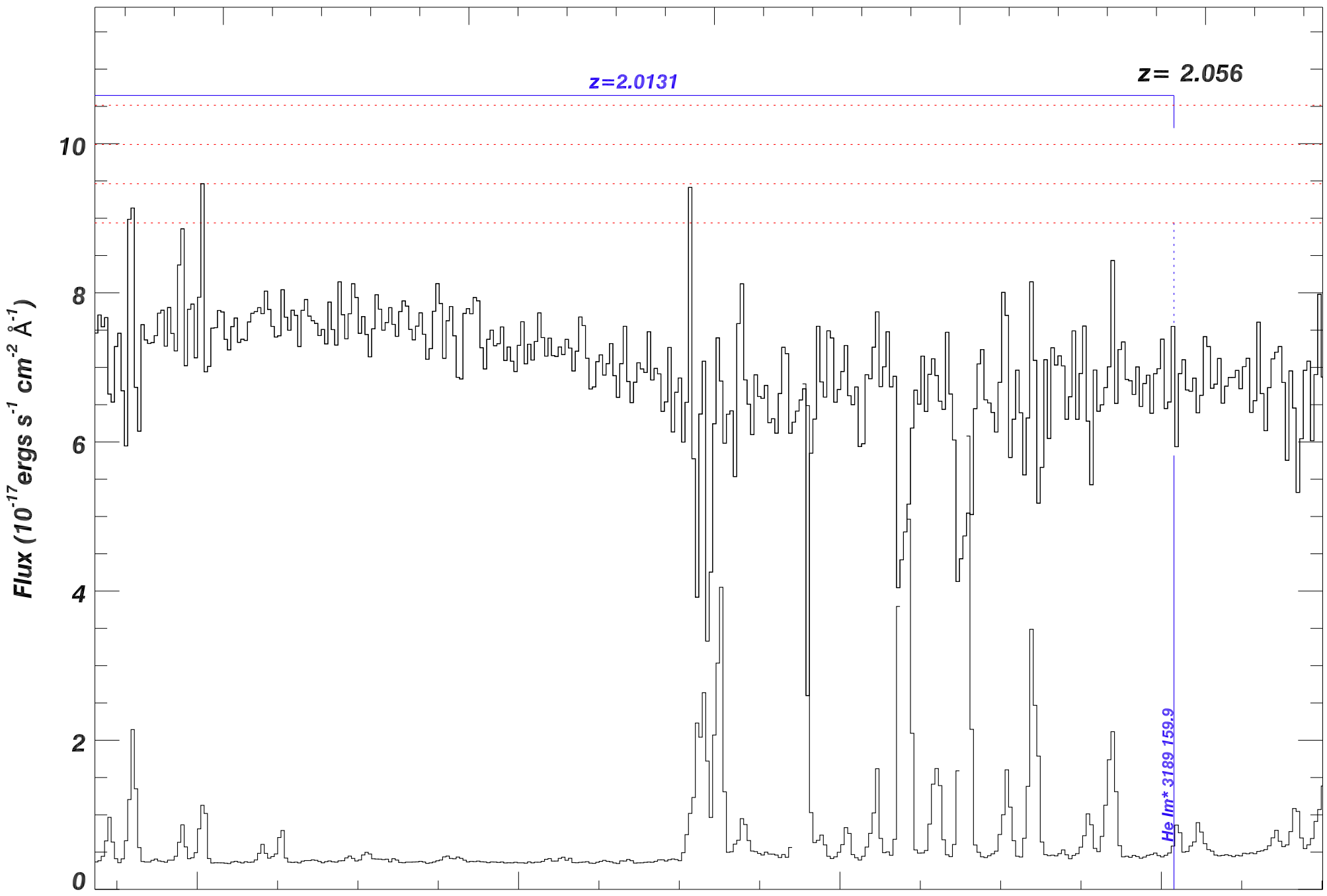
9200

9400

9600

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

He I m\* 3189 159.9



**SDSS\_J0909+2938\_MJD56337**

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

**3200**

**3300**

**3400**

**3500**

**$z = 2.056$**

