

1500

**SDSS J1100+0036**  
2000

2500

3000

*Rest Wavelength (Å)*

*z = 2.011*

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

40

30

20

10

0

4000

5000

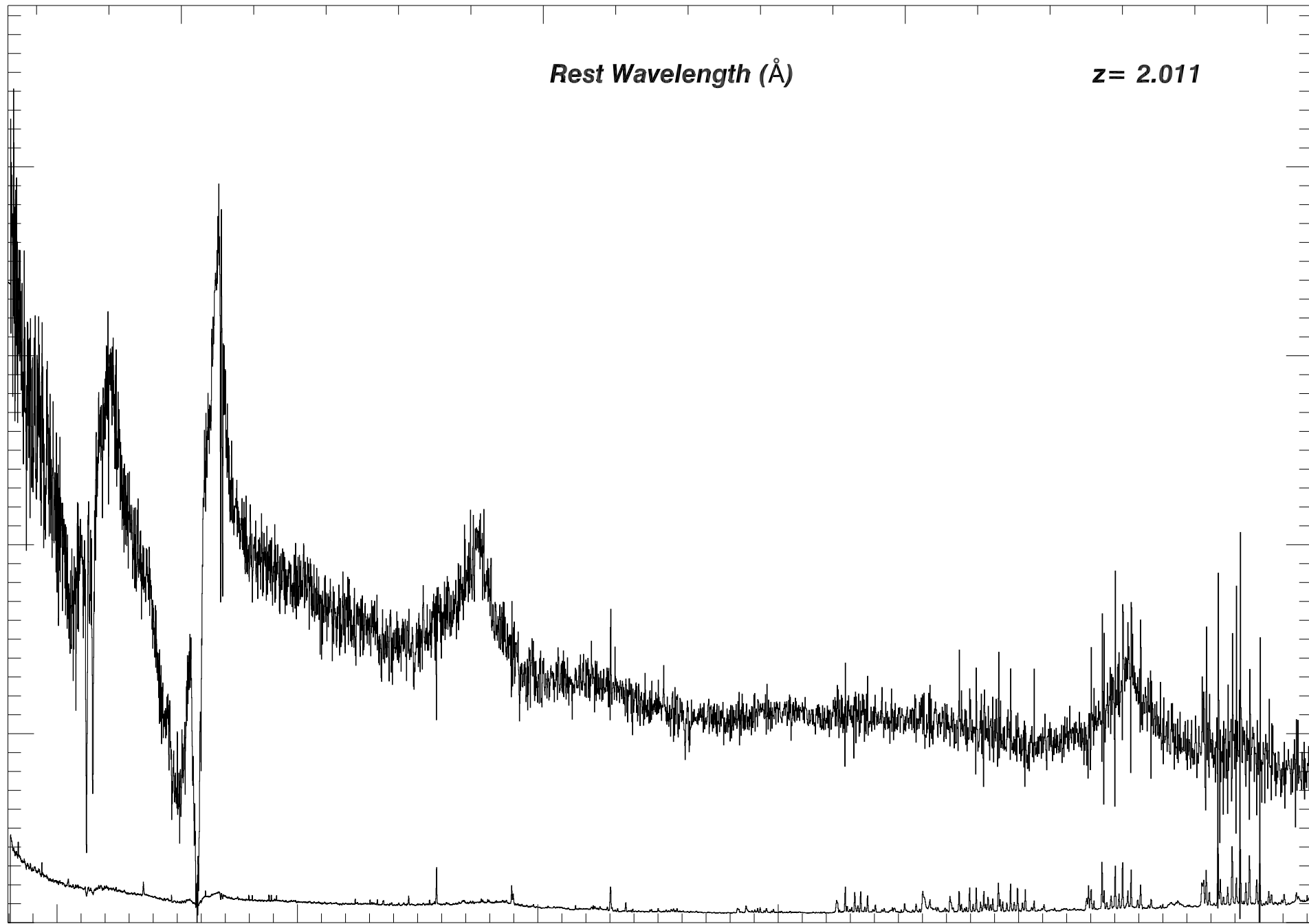
6000

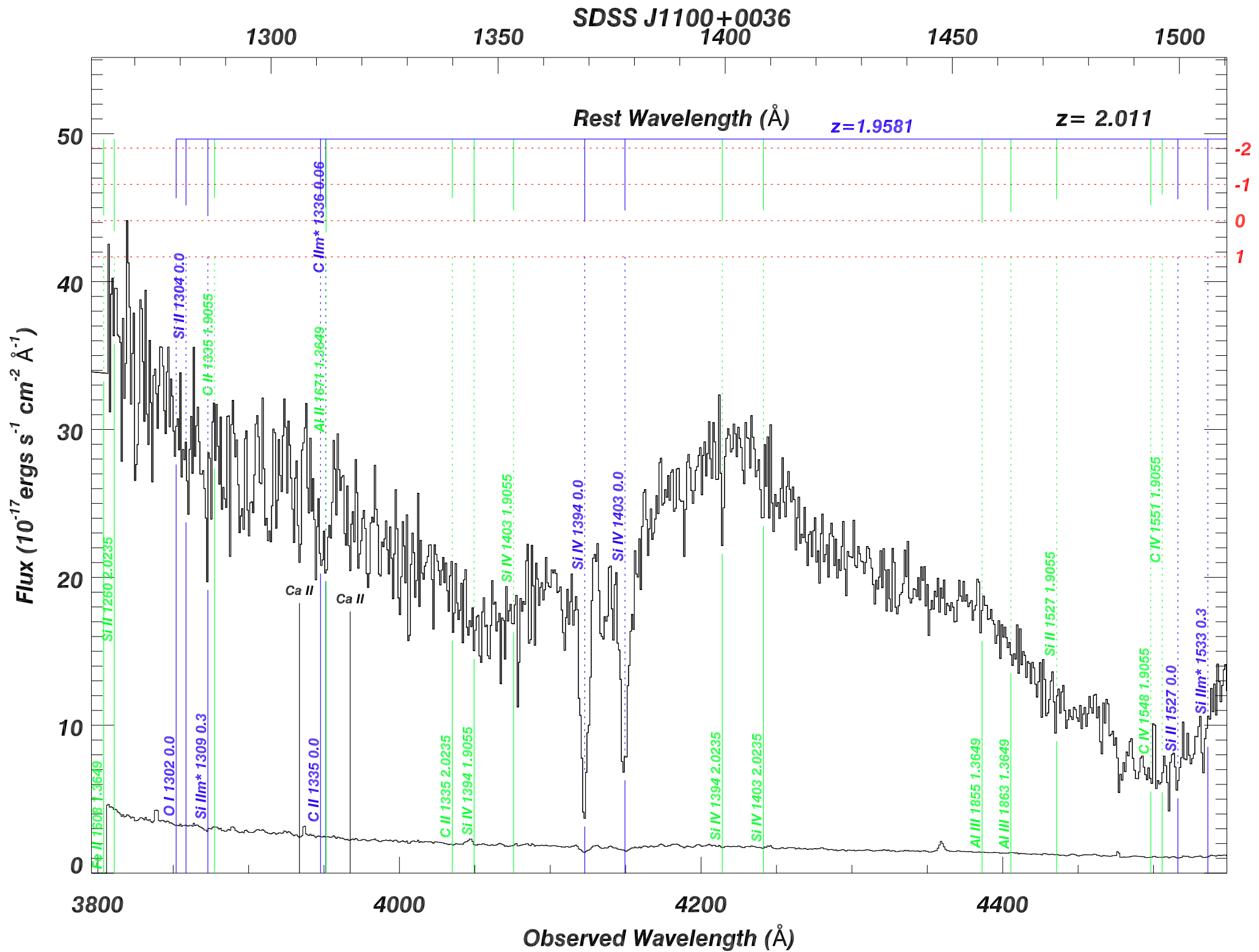
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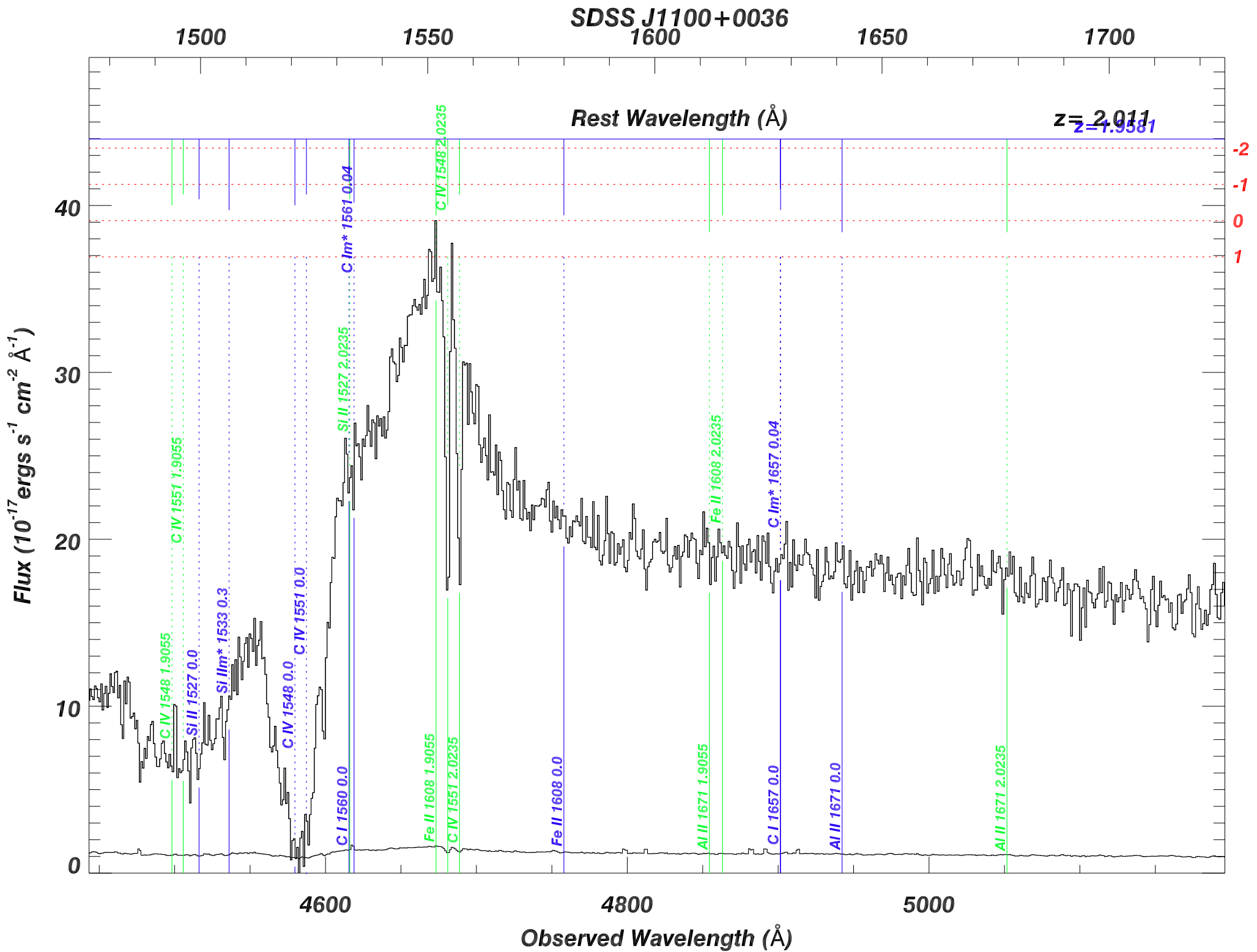
8000

9000

*Observed Wavelength (Å)*







SDSS J1100+0036

1700

1750

1800

1850

1900

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

$z=1.9581$

$z=2.011$

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

25

20

15

10

5

0

-2

-1

0

1

O I

Al I 1766 0.0  
Al Im\* 1766 0.1

Si II 1808 0.0

Si Im\* 1817 0.3

Al III 1855 1.9055

Al III 1863 1.9055

Al III 1855 0.0

Al III 1863 0.0

Fe II 2344 1.3649

Al III 1855 2.0235

Al III 1863 2.0235

Fe II 2374 1.3649

Fe II 2383 1.3649

Al I 1932 0.0

Al Im\* 1936 0.1

5200

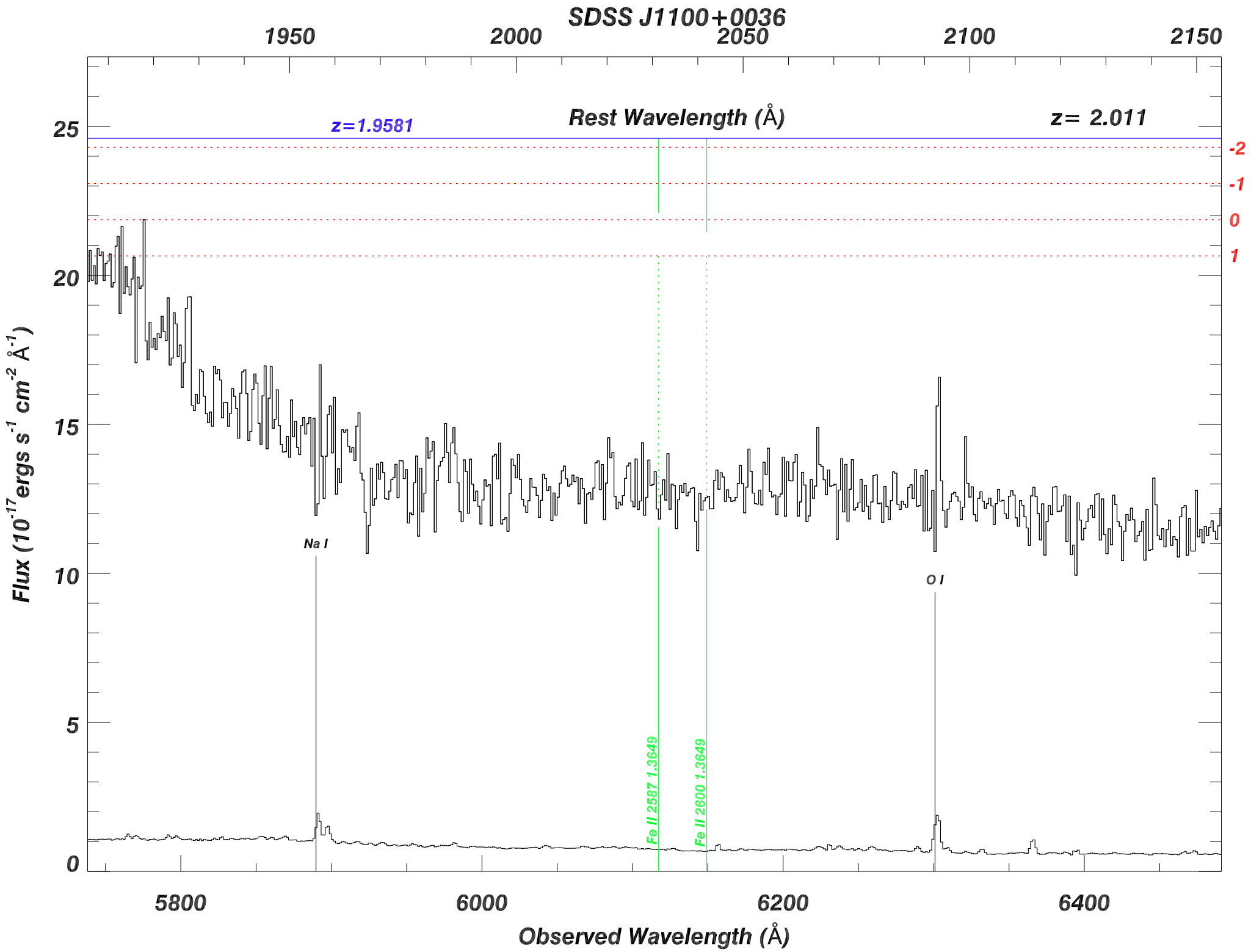
5400

5600

5800

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

SDSS J1100+0036



2150

2200

SDSS J1100+0036  
2250

2300

2350

 $z=1.9581$ Rest Wavelength ( $\text{\AA}$ ) $z=2.011$ Flux ( $10^{-17}$  ergs  $\text{s}^{-1}$   $\text{cm}^{-2}$   $\text{\AA}^{-1}$ )

15

10

5

0

-2

-1

0

1

6400

6600

6800

7000

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

Mg II 2796 1.3649

Mg II 2804 1.3649

Mg I 2853 1.3649

Fe II 2344 1.9055

Fe II 2374 1.9055

Fe IIIm\* 2333 0.4

Fe IIIm\* 2339 0.9

Fe II 2344 0.0

Fe IIIm\* 2349 0.7

Fe IIIm\* 2366 0.4

Fe II 2374 0.0

Fe II 2383 0.0

Fe IIIm\* 2389 0.4

Fe IIIm\* 2396 0.4

Fe IIIm\* 2400 0.7

Fe IIIm\* 2406 0.7

Fe IIIm\* 2407 0.9

Fe IIIm\* 2411 0.9

Fe IIIm\* 2412 1.0

