

SDSS_J0916+6213_MJD56722

Rest Wavelength (\AA)

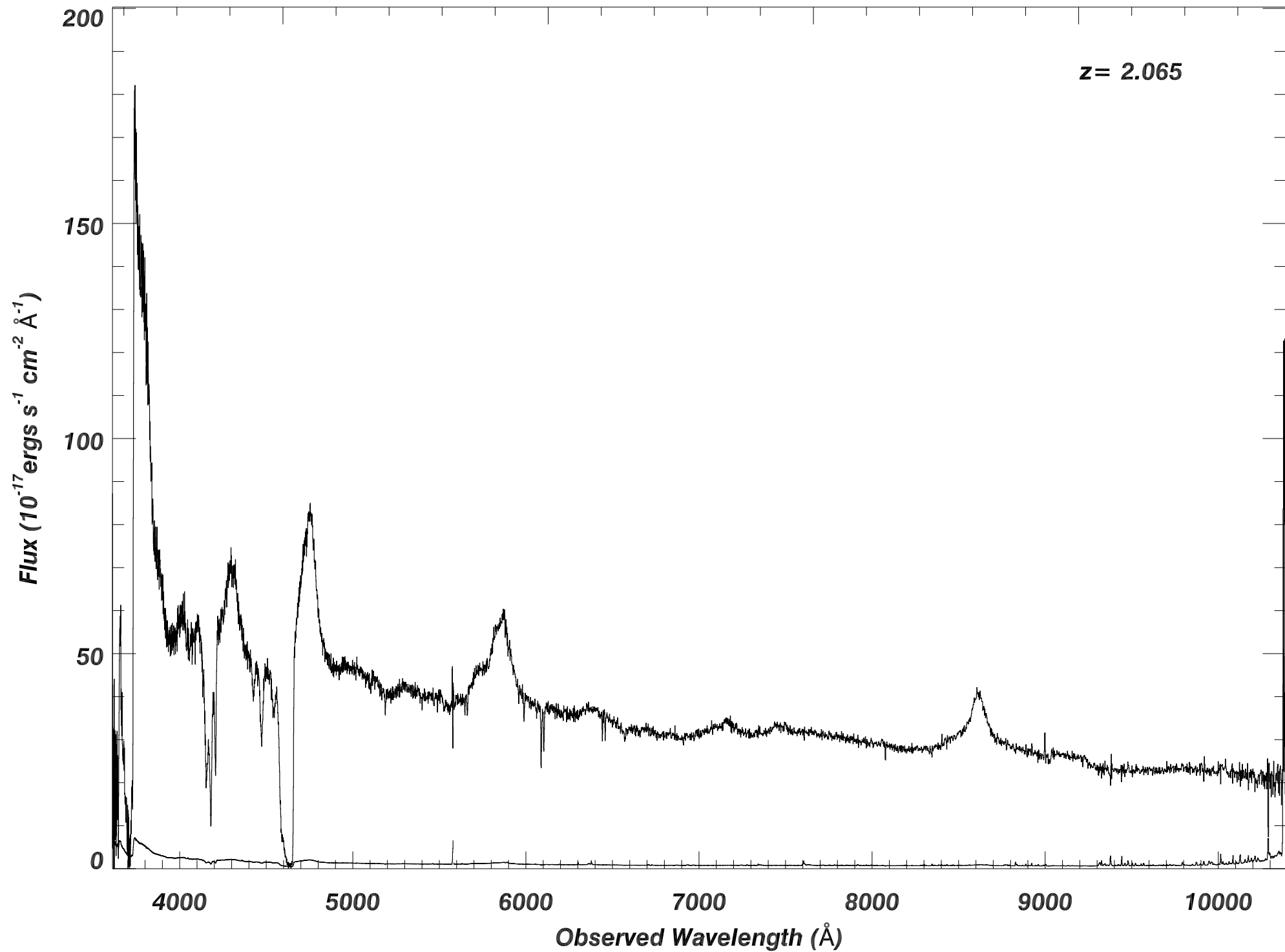
1500

2000

2500

3000

$z = 2.065$



SDSS_J0916+6213_MJD56722

Rest Wavelength (\AA)

1200

1250

1300

1350

1400

$z = 2.065$
 $z = 1.9993$

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

200

150

100

50

0

-2

-1

0

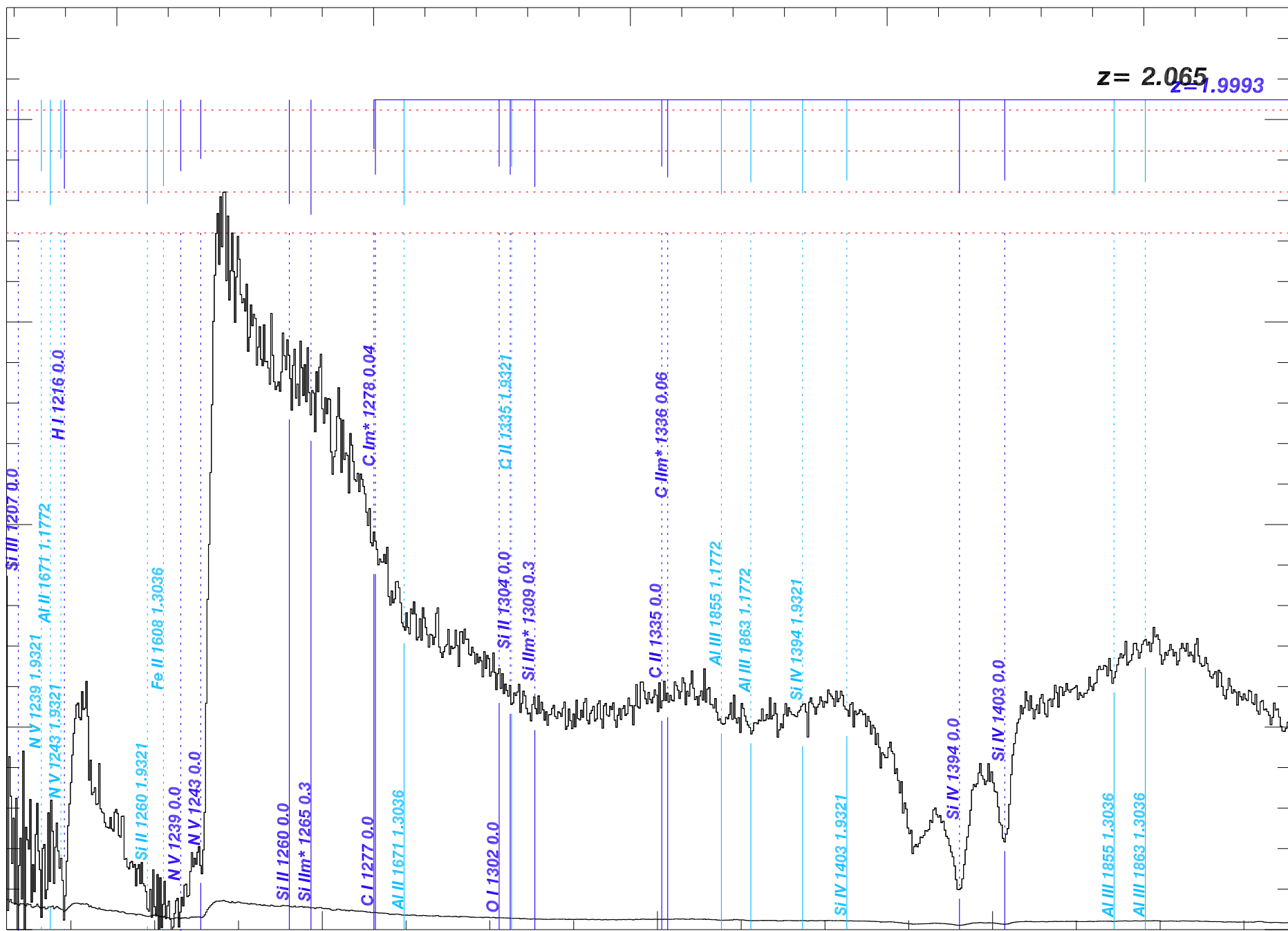
1

3800

4000

4200

Observed Wavelength (\AA)



SDSS_J0916+6213_MJD56722

Rest Wavelength (\AA)

1400

1450

1500

1550

1600

100

$z=1.9993$

$z=2.065$

-2

-1

0

1

80

60

40

20

0

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

Al III 1363 1.3036

C IV 1548 1.9321

C IV 1551 1.9321

Si II 1527 0.0

Si III* 1533 0.3

C IV 1548 0.0

C IV 1551 0.0

C I 1560 0.0

C Im* 1561-0.04

Fe II 1608 1.9321

Fe II 1608 0.0

Al II 1671 1.9321

C Im* 1657 0.04

C I 1657 0.0

Al II 1671 0.0

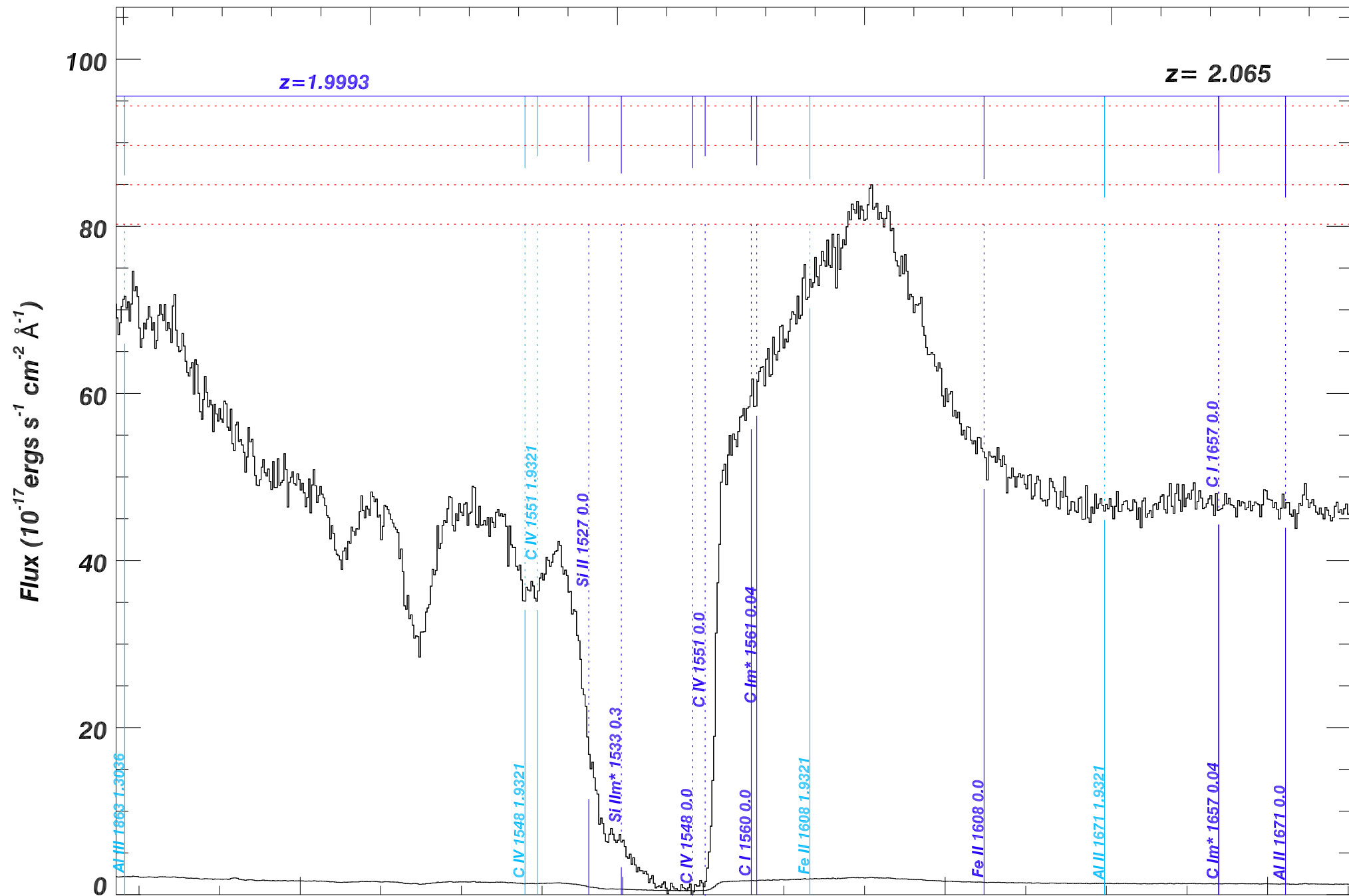
4400

4600

4800

5000

Observed Wavelength (\AA)



SDSS_J0916+6213_MJD56722

Rest Wavelength (\AA)

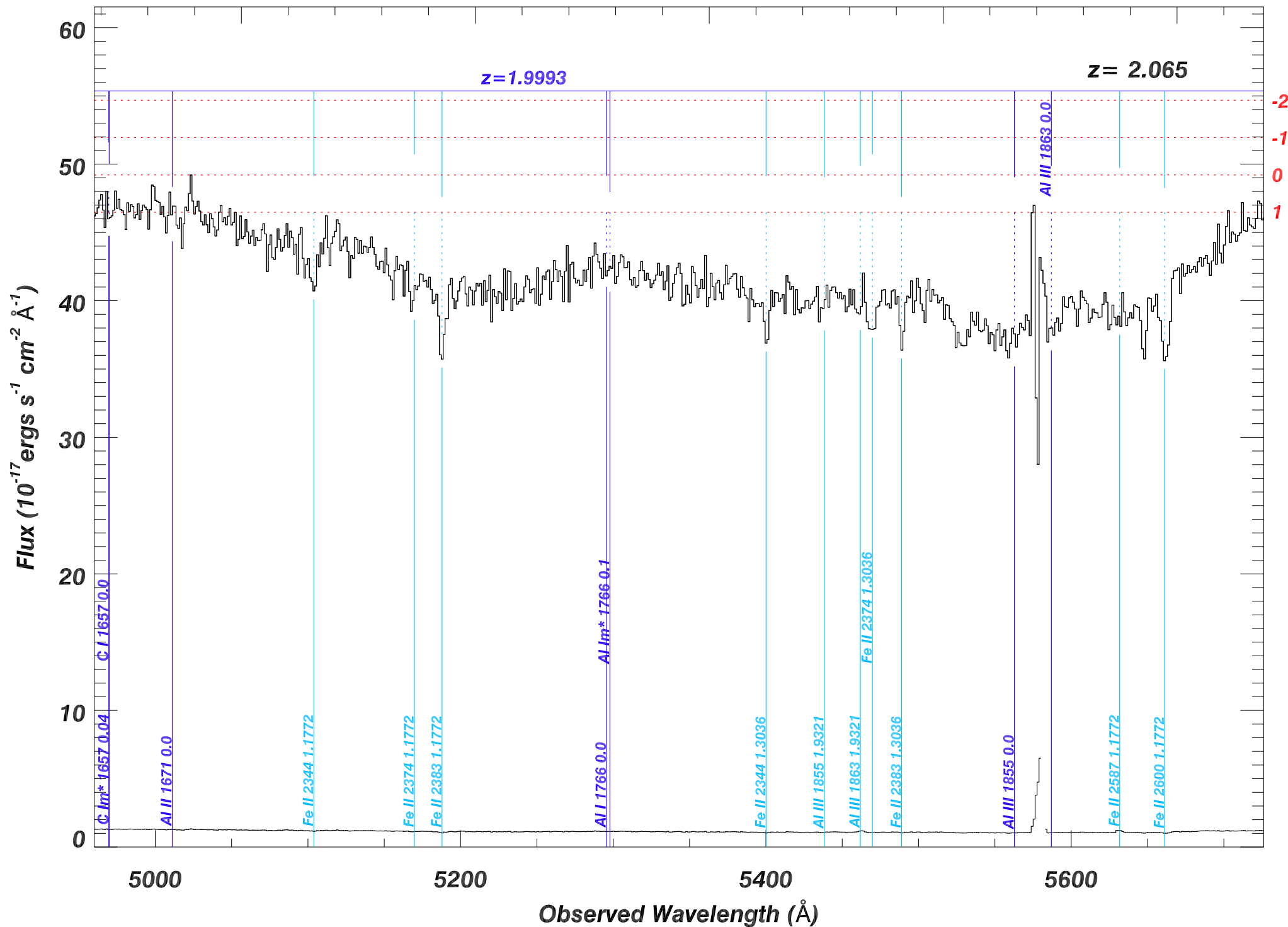
1650

1700

1750

1800

1850



SDSS_J0916+6213_MJD56722

Rest Wavelength (\AA)

1850

1900

1950

2000

2050

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

60

40

20

0

$z = 2.065$
 $z = 7.9993$

-2
-1
0
1

5800

6000

6200

6400

Observed Wavelength (\AA)

Fe II 2600 1.1772

Al I 1932 0.0

Al Im* 1936 0.1

Fe II 2587 1.3036

Fe II 2600 1.3036

Mg II 2796 1.1772

Mg II 2804 1.1772

Mg I 2853 1.1772

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Rest Wavelength (\AA)

2100

2150

2200

2250

2300

$z=1.9993$

$z=2.065$

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

40

30

20

10

0

-2
-1
0
1

6400

6600

6800

7000

Observed Wavelength (\AA)

Mg II 2796 1.3036

Mg II 2804 1.3036

Mg I 2853 1.3036

Fe II 2344 1.9321

Fe II 2374 1.9321

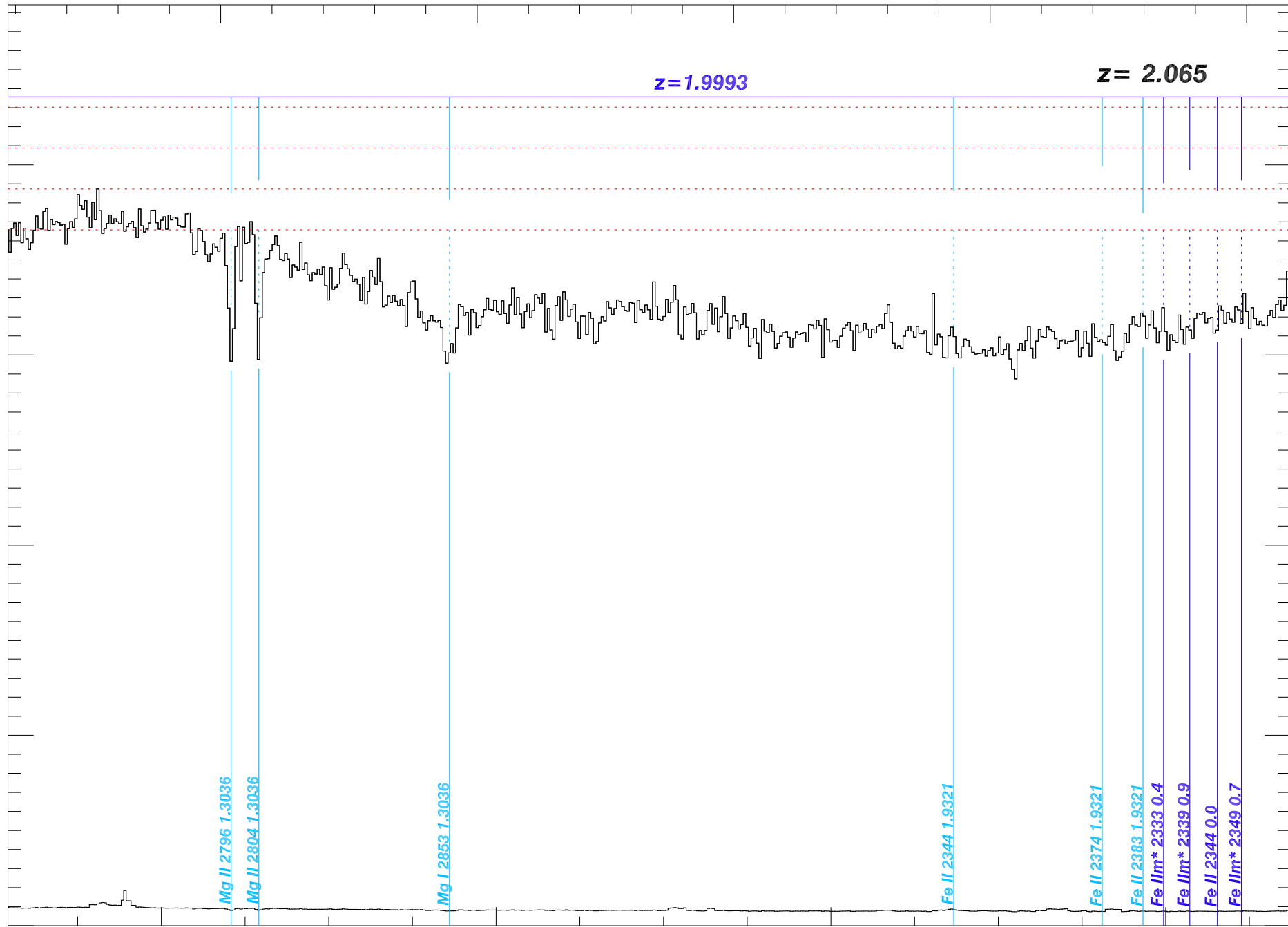
Fe II 2383 1.9321

Fe II* 2333 0.4

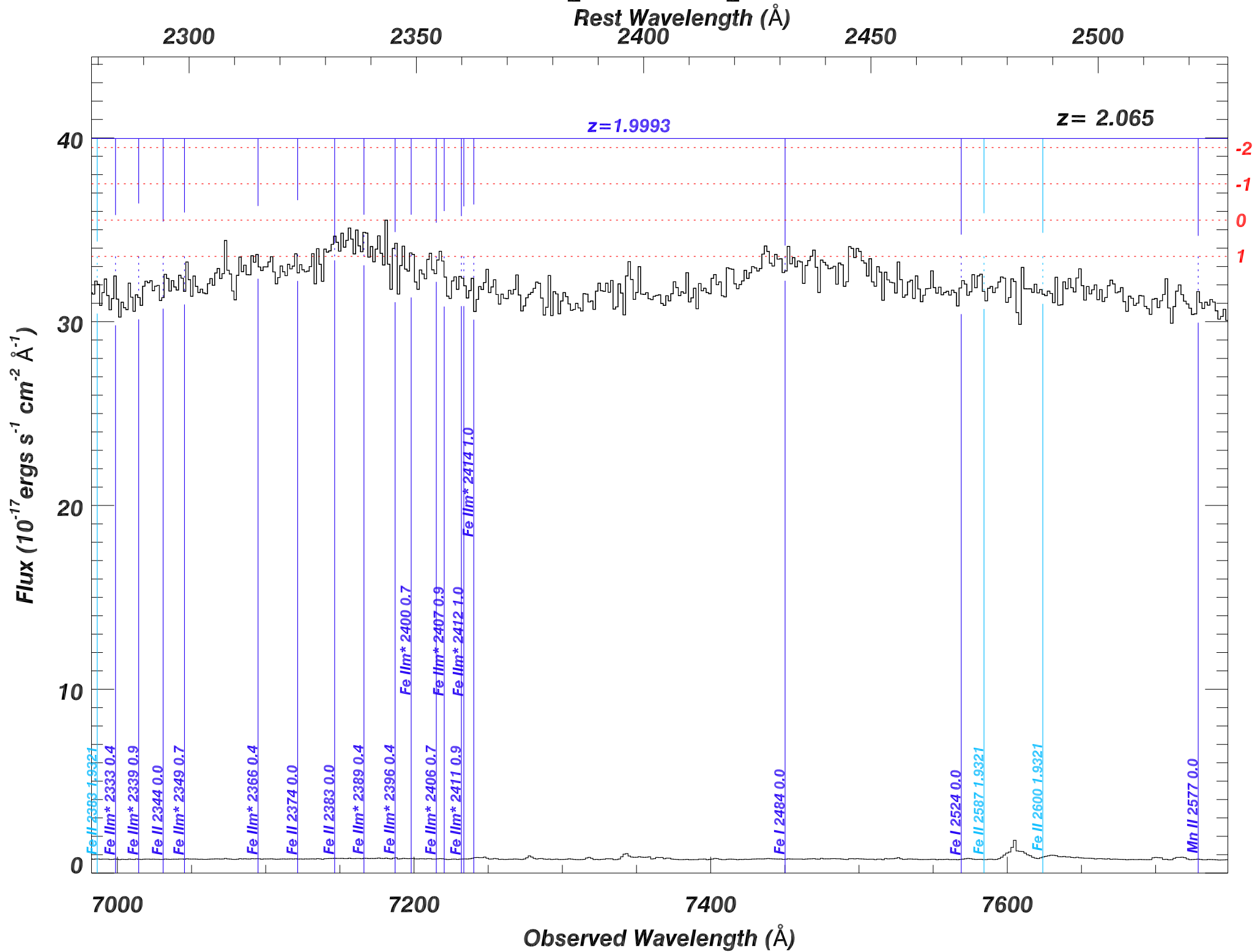
Fe II* 2339 0.9

Fe II 2344 0.0

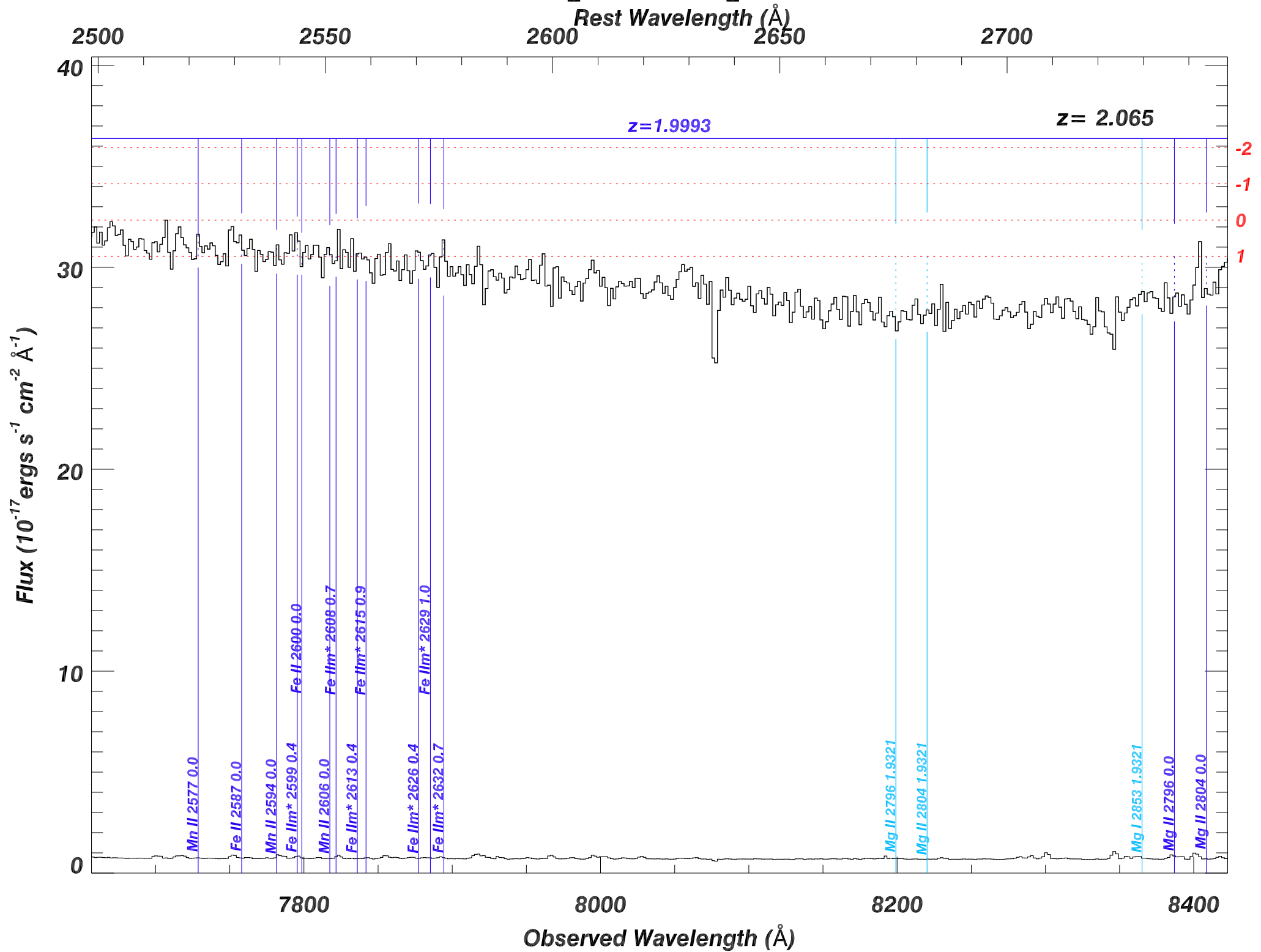
Fe II* 2349 0.7



SDSS_J0916+6213_MJD56722



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SDSS_J0916+6213_MJD56722

Rest Wavelength (\AA)

2750

2800

2850

2900

2950

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

50

40

30

20

10

0

$z=1.9993$ $z=2.065$

-2
-1
0
1

Mg I 2853 1.9321

Mg II 2796 0.0

Mg II 2804 0.0

Mg I 2853 0.0

Ca II 3935 1.1772

Ca II 3970 1.1772

He I m* 2946 159.9

Ca II 3935 1.3036

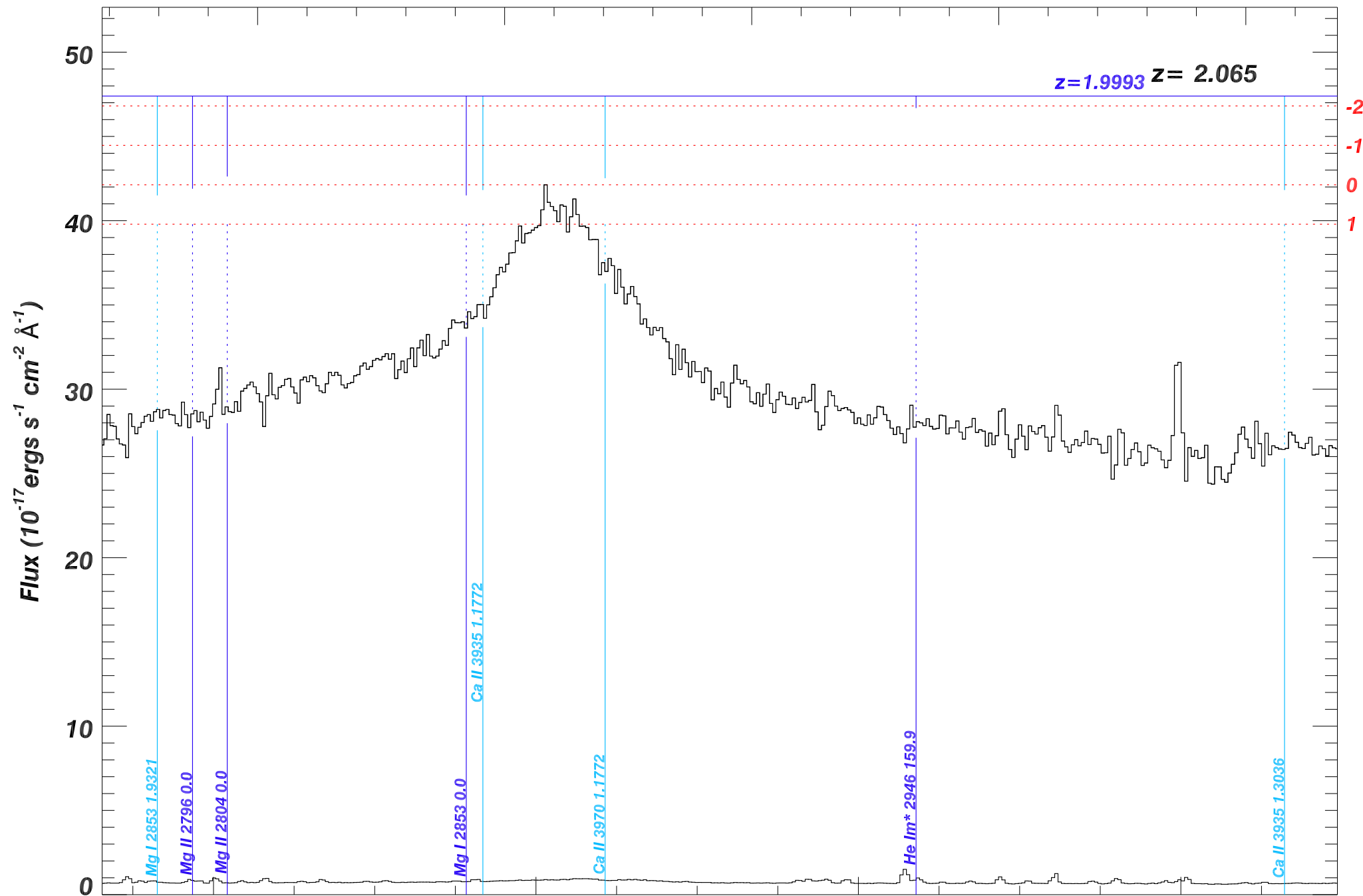
8400

8600

8800

9000

Observed Wavelength (\AA)



SDSS_J0916+6213_MJD56722

Rest Wavelength (\AA)
3050 3100

2950

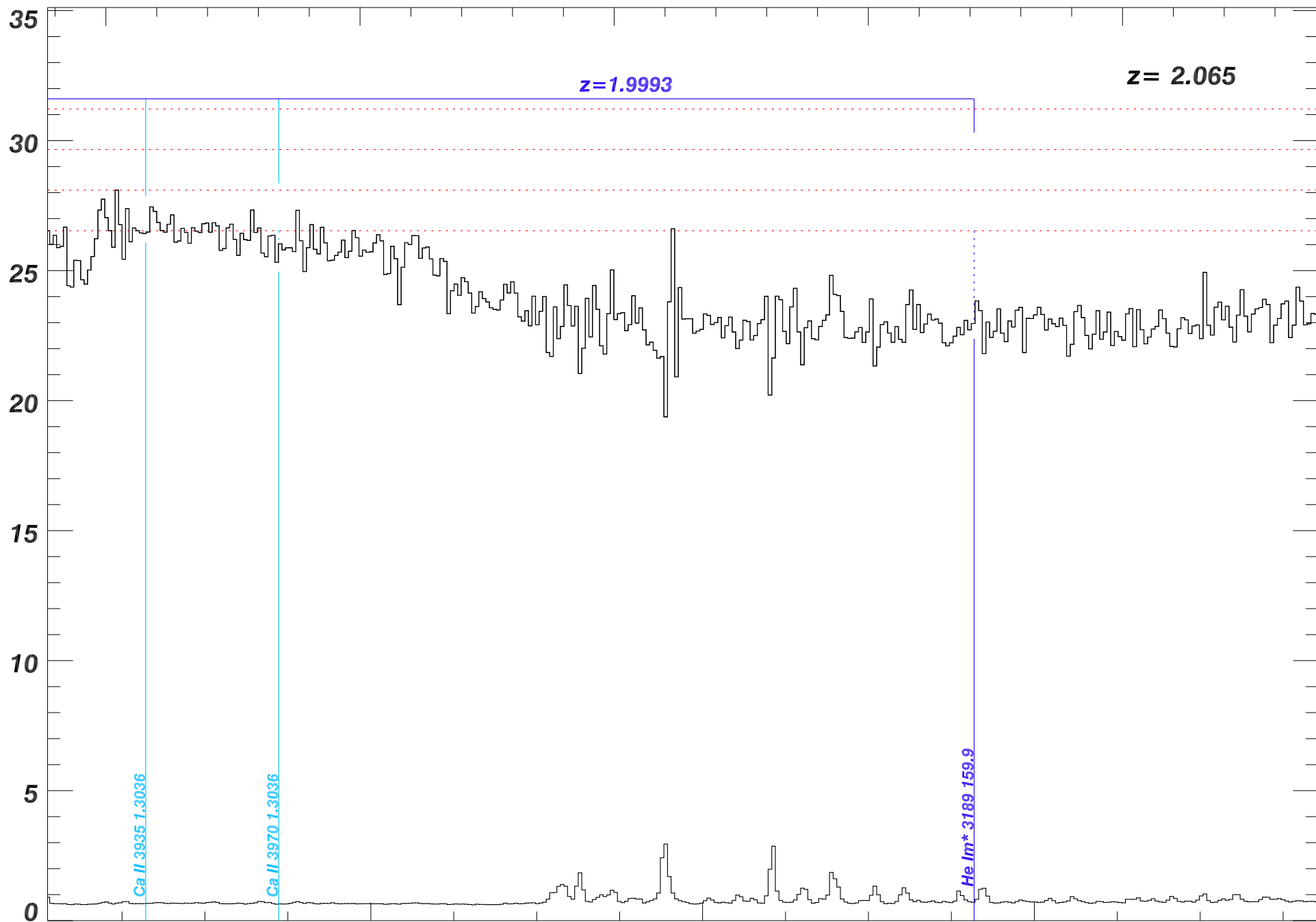
3000

3150

$z = 1.9993$

$z = 2.065$

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



9200

9400

9600

Observed Wavelength (\AA)

SDSS_J0916+6213_MJD56722

Rest Wavelength (\AA)

3200

3300

3400

3500

$z = 2.065$

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

140

120

100

80

60

40

20

0

-2

-1

0

1

9.80×10^3

1.00×10^4

1.02×10^4

1.04×10^4

1.06×10^4

1.08×10^4

Observed Wavelength (\AA)

