

SDSS_J1145+3937_MJD57424

Rest Wavelength (\AA)

1000

1500

2000

2500

$z = 3.140$

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

60

40

20

0

4000

5000

6000

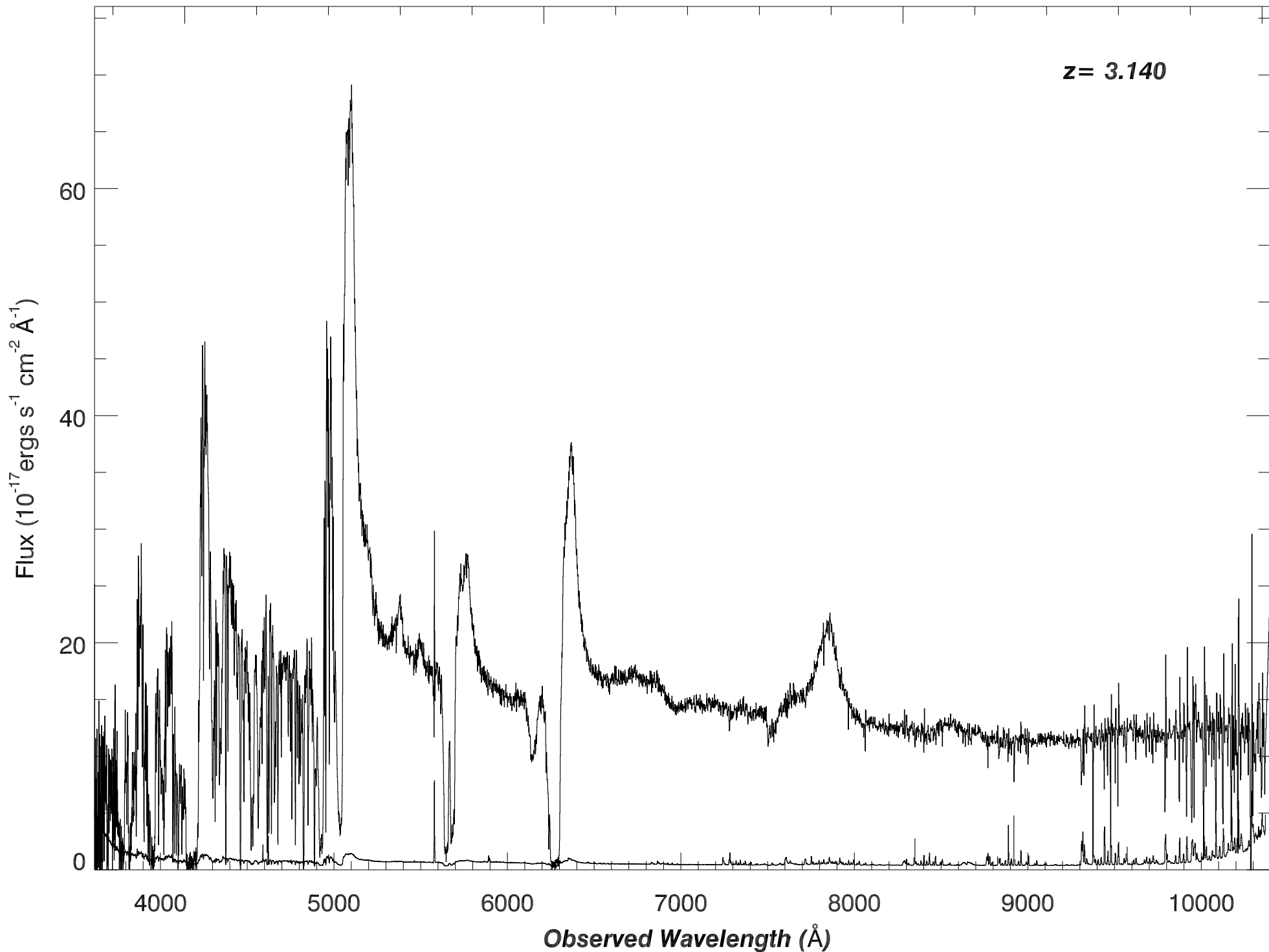
7000

8000

9000

10000

Observed Wavelength (\AA)

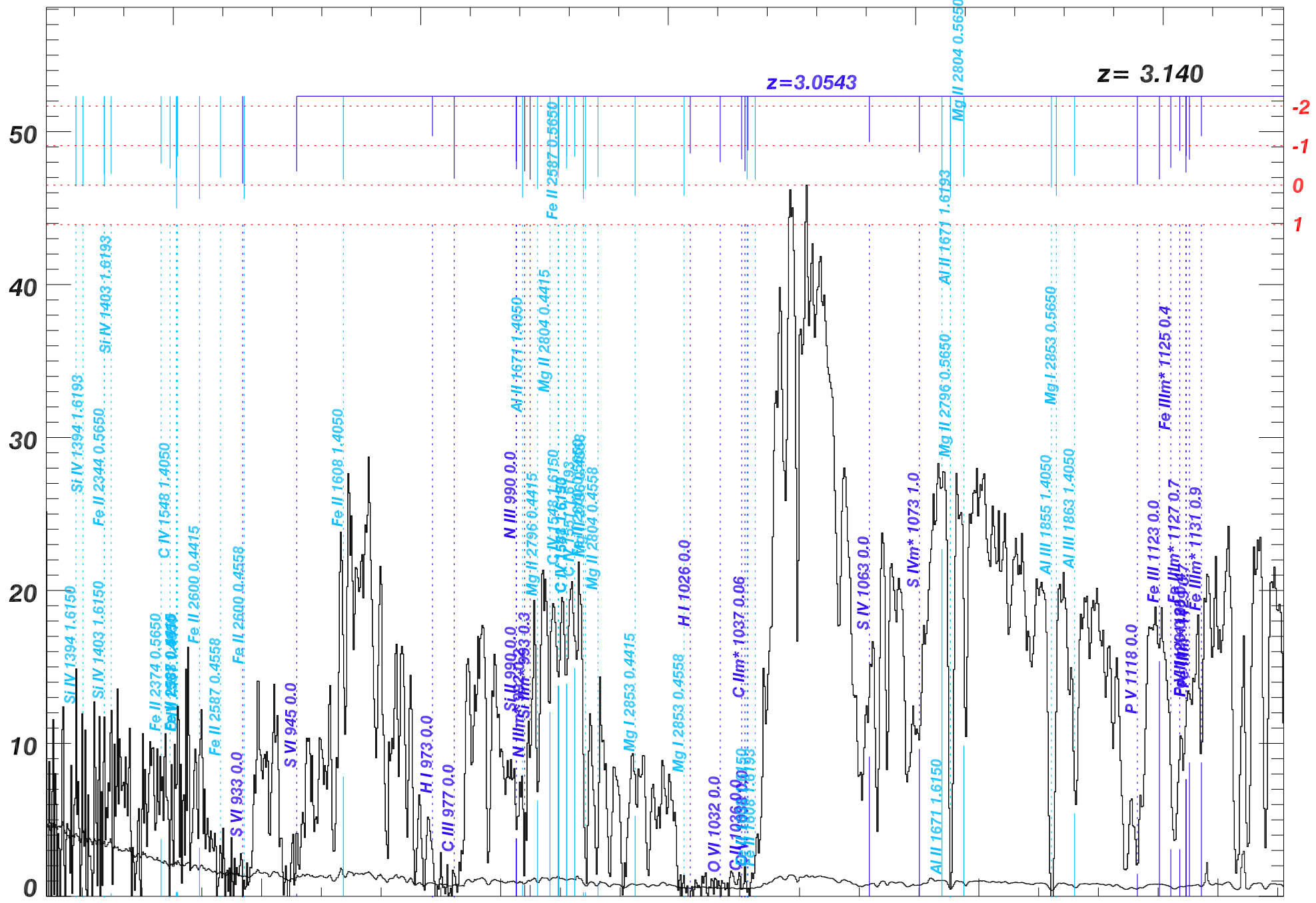


SDSS_J1145+3937_MJD57424

Rest Wavelength (Å)

900 950 1000 1050 1100

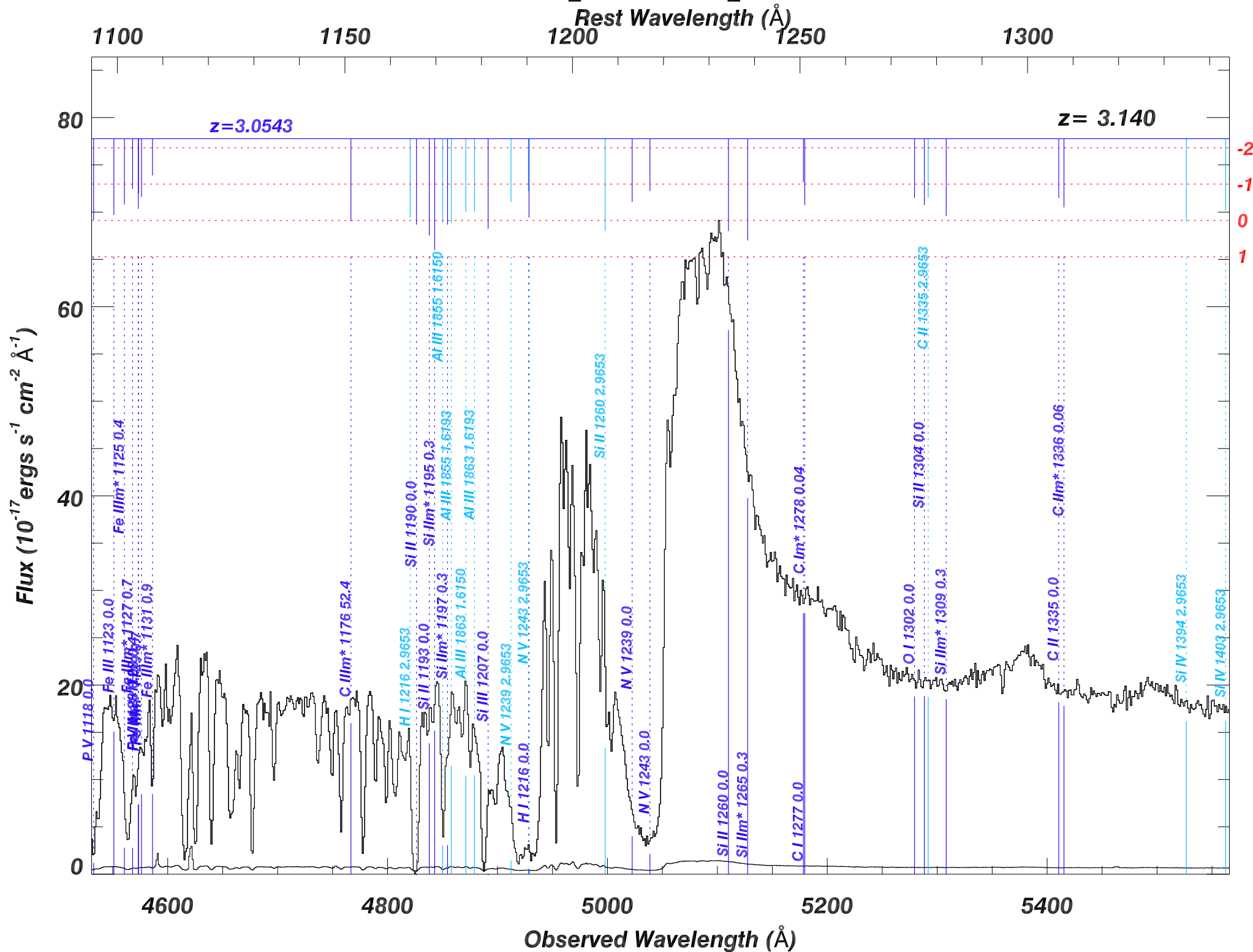
Flux (10^{-17} ergs s^{-1} cm^{-2} Å $^{-1}$)



3800 4000 4200 4400 4600

Observed Wavelength (Å)

SDSS_J1145+3937_MJD57424



SDSS_J1145+3937_MJD57424

Rest Wavelength (\AA)

1350

1400

1450

1500

1550

 $z=3.0543$ $z=3.140$ Flux ($10^{-17} \text{ ergs s}^{-1} \text{ cm}^{-2} \text{ \AA}^{-1}$)

40

30

20

10

0

-2

-1

0

1

Si IV 1394 2.9653

Si IV 1403 2.9653

Fe II 2344 1.4050

Si IV 1394 0.0

Ca II 3935 0.4415

Si IV 1403 0.0

Fe II 2374 1.4050

Ca II 3935 0.4558

Fe II 2383 1.4050

Ca II 3970 0.4558

Fe II 2344 1.6150

C IV 1548 2.9653

Ca II 3935 0.5650

Fe II 2344 1.6193

C IV 1557 2.9653

Si II 1527 0.0

Fe II 2374 1.6150

Fe II 2374 1.6150

Ca II 3970 0.5650

Si II m* 1533 0.3

Fe II 2383 1.6150

Fe II 2383 1.6193

C IV 1548 0.0

C IV 1551 0.0

C II m* 1561 0.04

C I 1560 0.0

Fe II 1608 2.9653

5600

5800

6000

6200

6400

Observed Wavelength (\AA)

SDSS_J1145+3937_MJD57424

Rest Wavelength (\AA)

1550

1600

1650

1700

1750

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

40
30
20
10
0

$z=3.0543$

$z=3.140$

-2
-1
0
1

6400

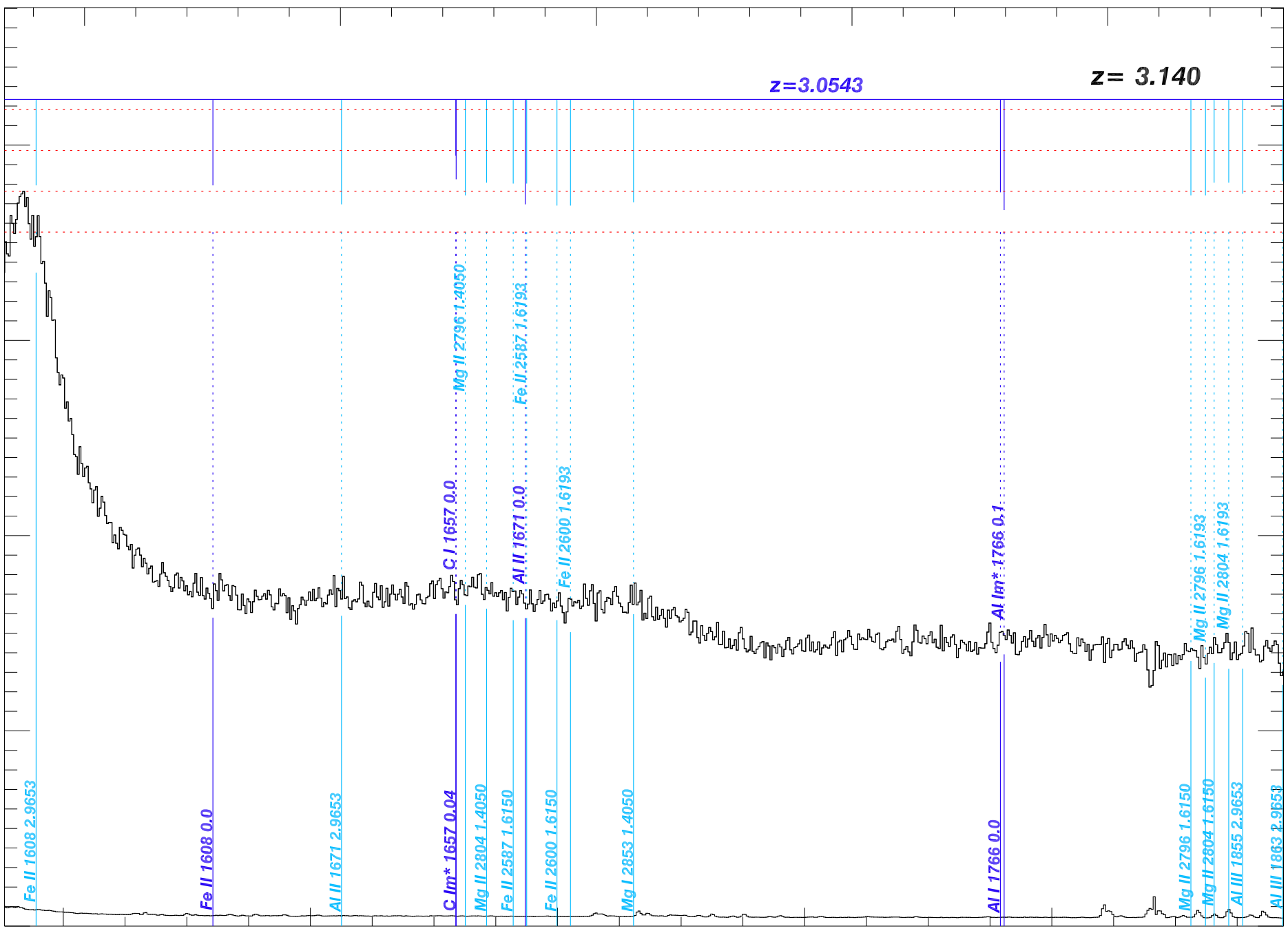
6600

6800

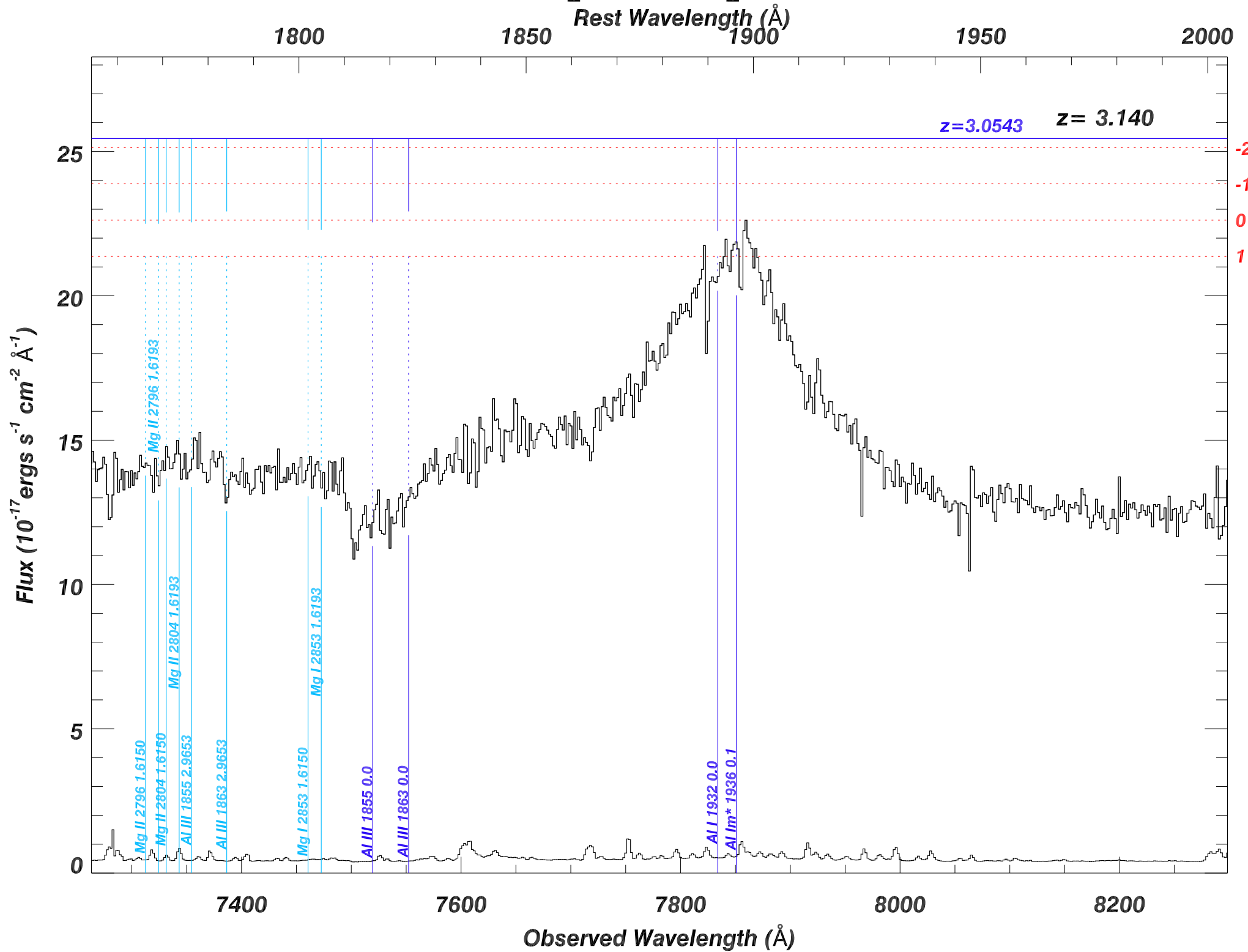
7000

7200

Observed Wavelength (\AA)



SDSS_J1145+3937_MJD57424



SDSS_J1145+3937_MJD57424

Rest Wavelength (\AA)

2000

2050

2100

2150

2200

$z = 3.140$

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

15

10

5

0

-2
-1
0
1

8200

8400

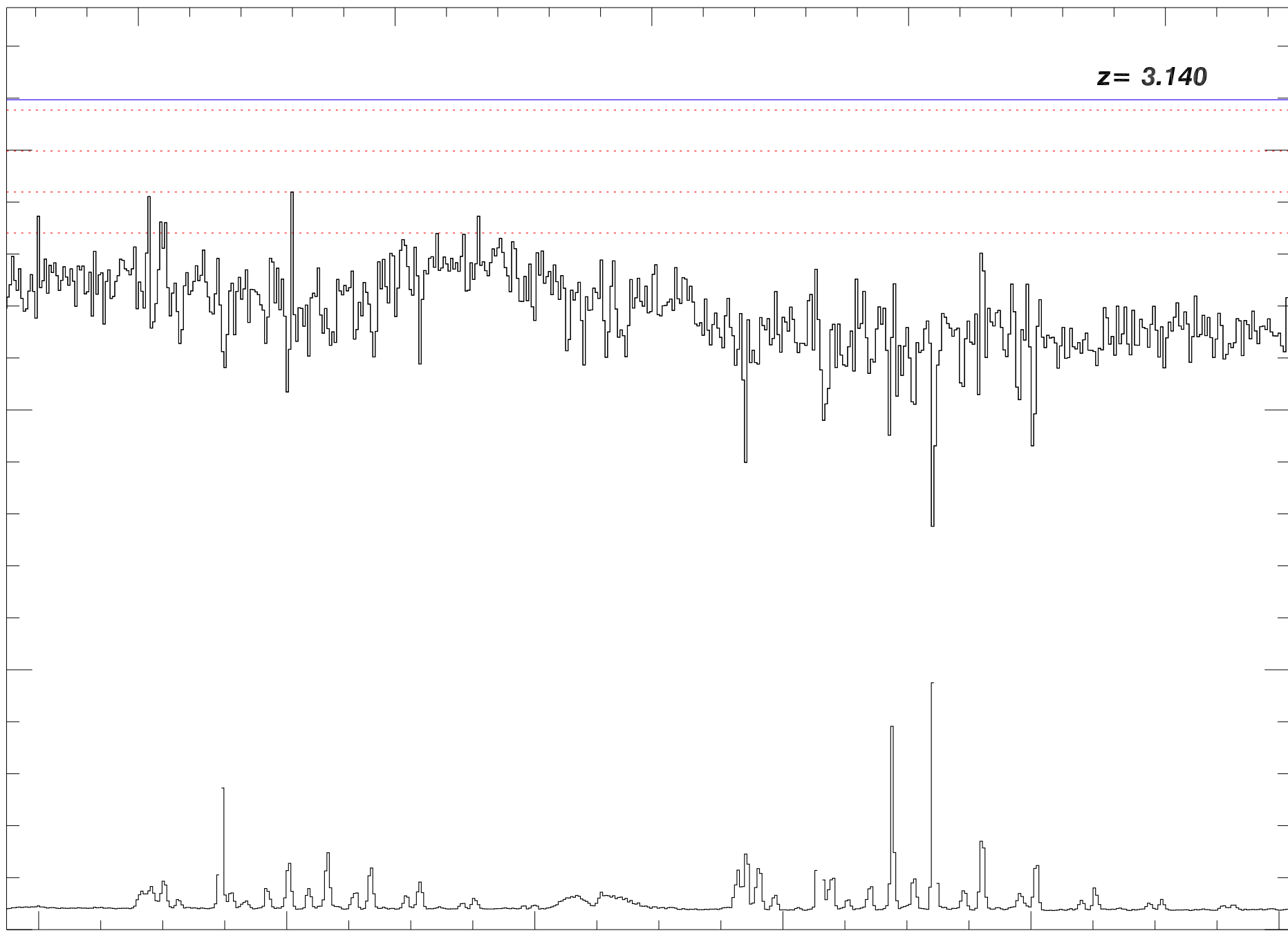
8600

8800

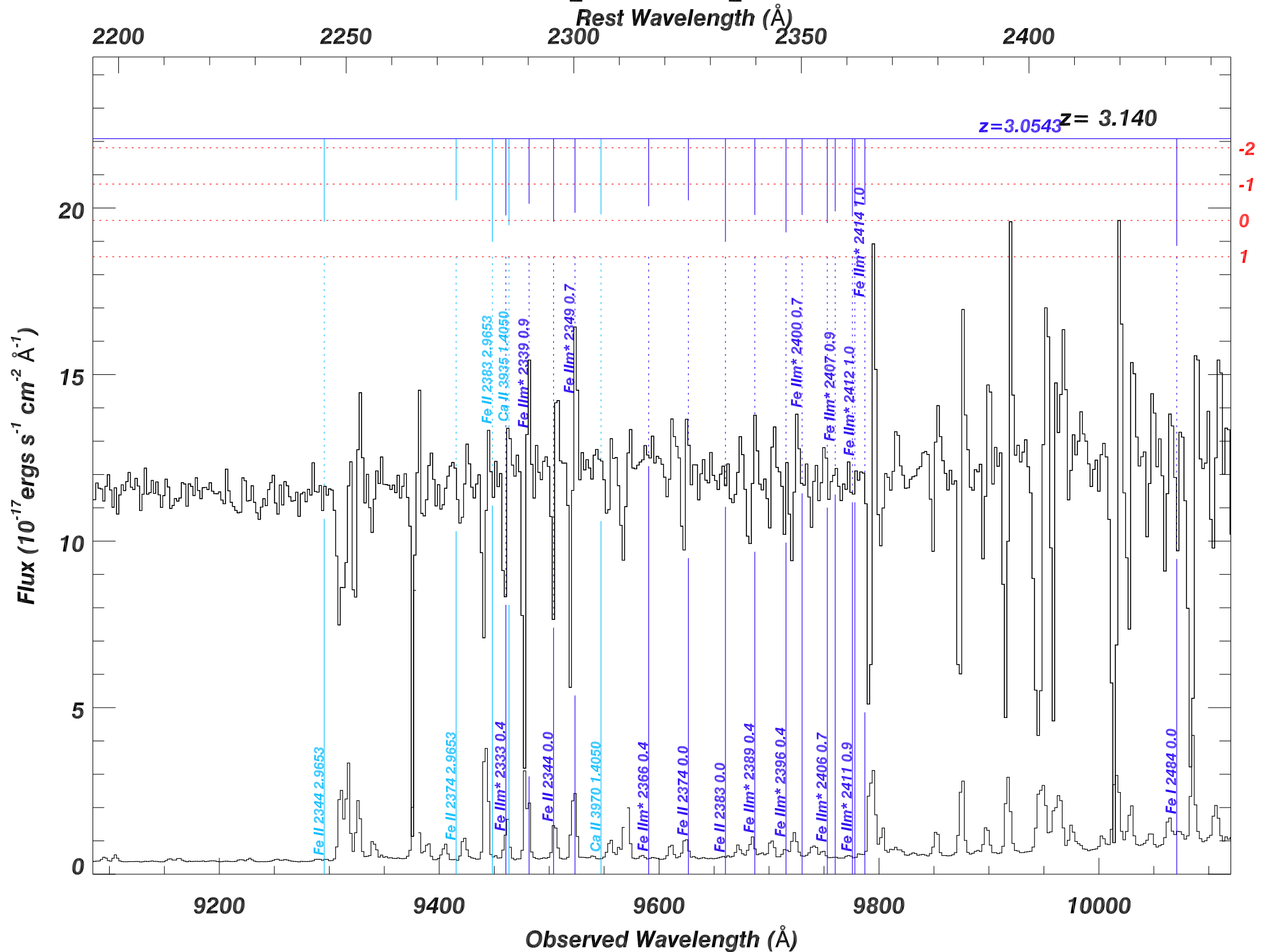
9000

9200

Observed Wavelength (\AA)



SDSS_J1145+3937_MJD57424



SDSS_J1145+3937_MJD57424

Rest Wavelength (\AA)

2450

2500

2550

2600

2650

$z=3.0543$

$z= 3.140$

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

30

20

10

0

-2

-1

0

1

1.00×10^4

1.02×10^4

1.04×10^4

1.06×10^4

1.08×10^4

1.10×10^4

Observed Wavelength (\AA)

Fe I 2484 0.0

Fe I 2524 0.0

Fe II 2587 2.9653

Ca II 3935 1.6150

Fe II 2600 2.9653

Ca II 3935 1.6193

Ca II 3970 1.6150

