

1500

SDSS J1019+2022
2000

2500

Rest Wavelength (Å)

z = 2.096

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

60

40

20

0

4000

5000

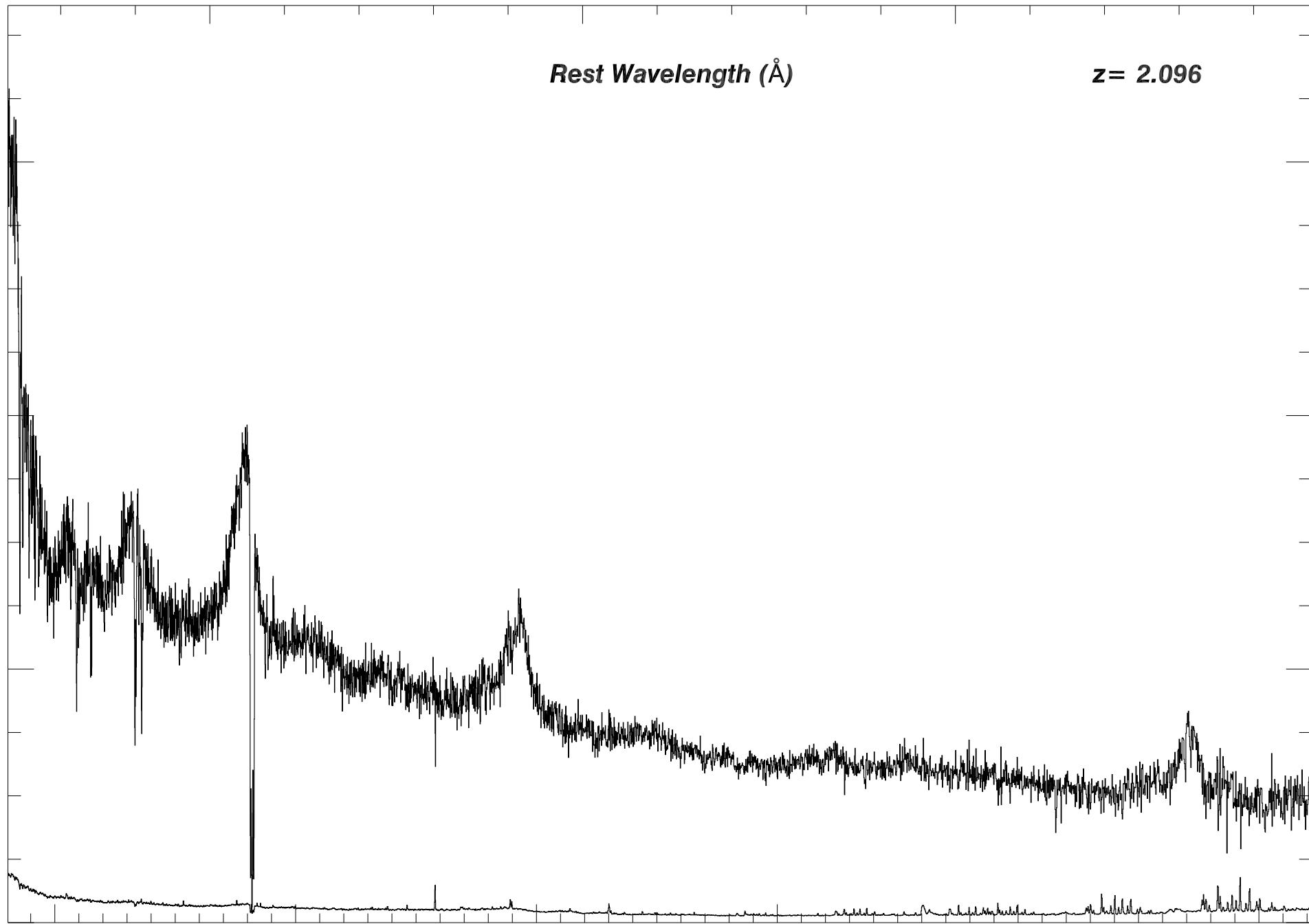
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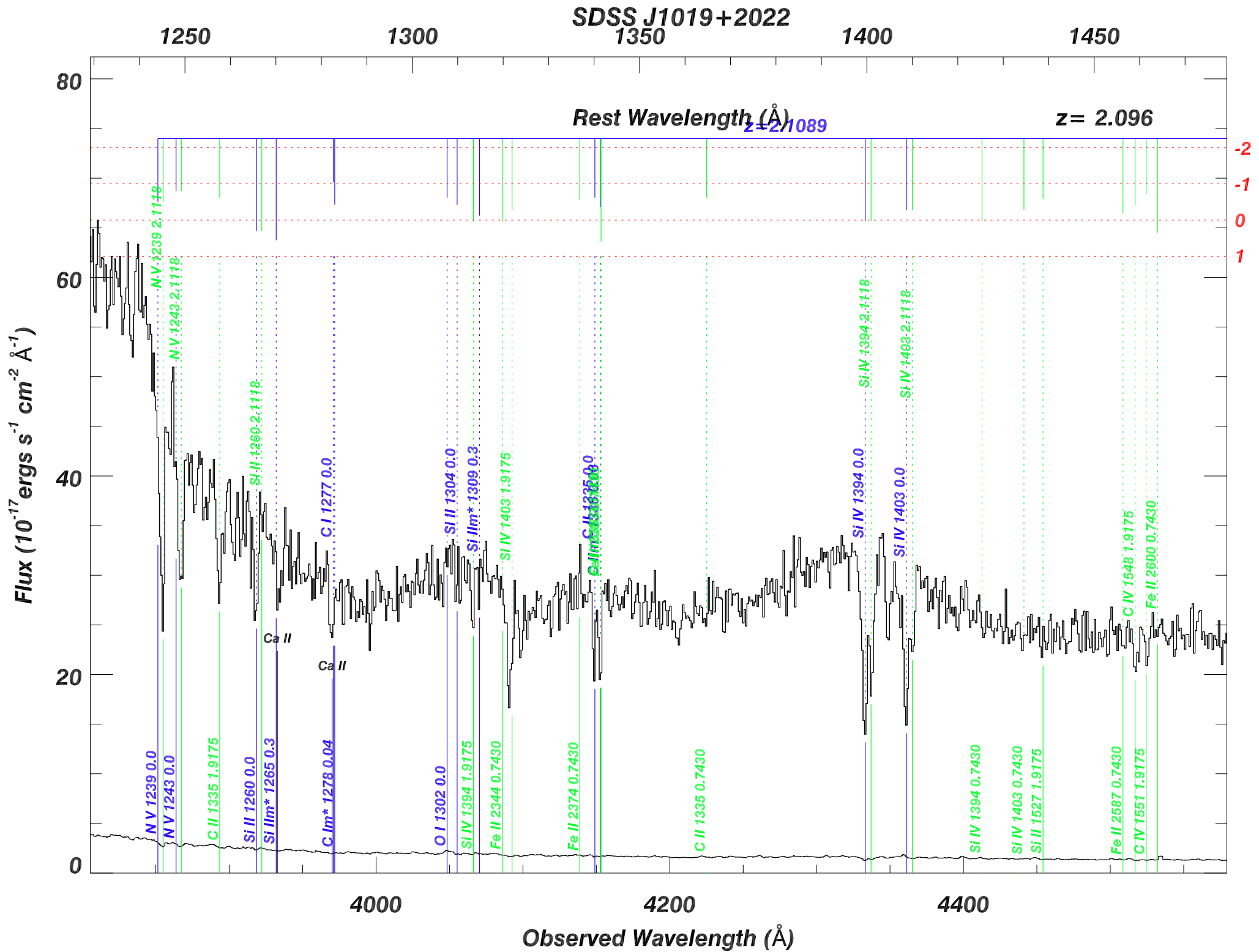
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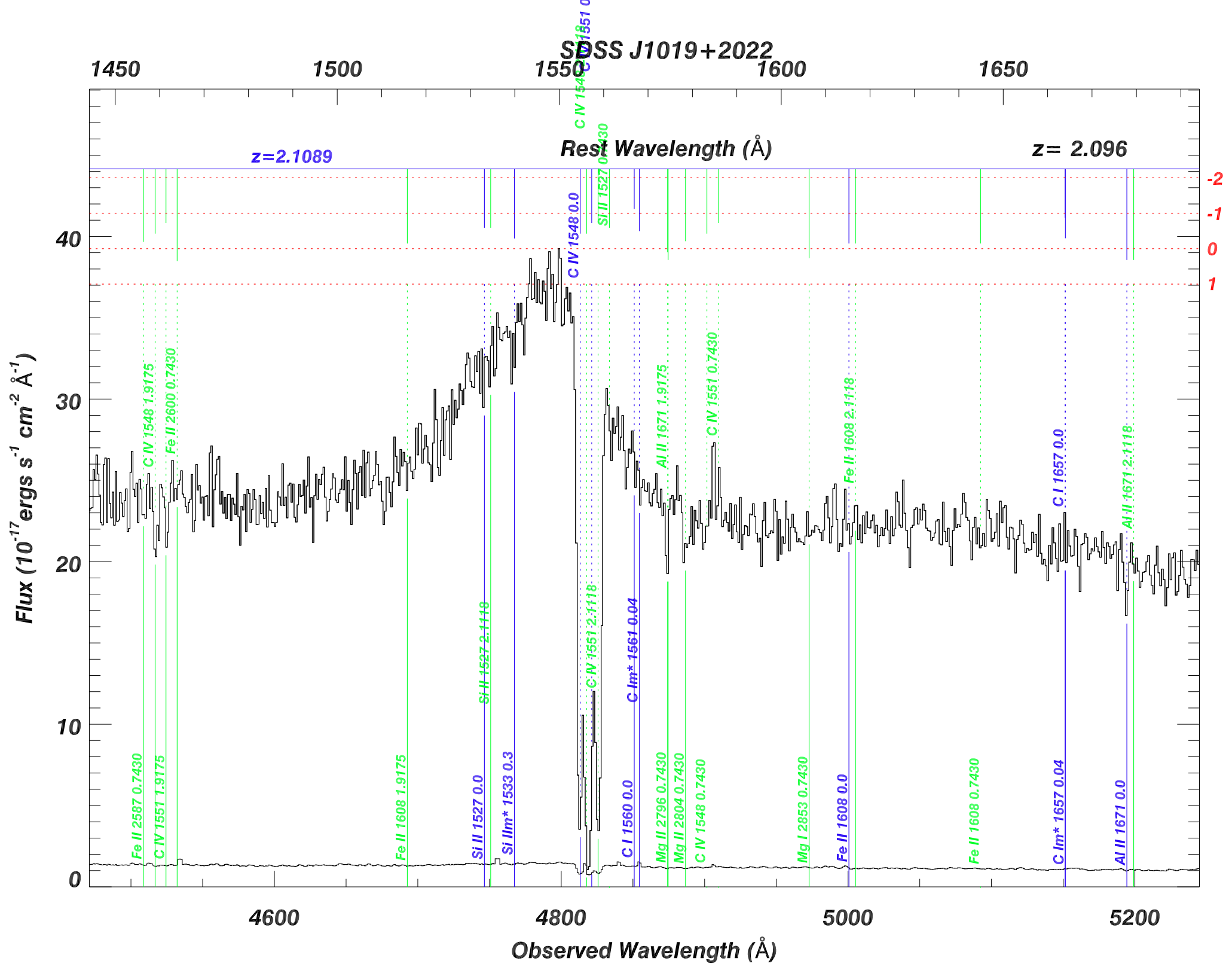
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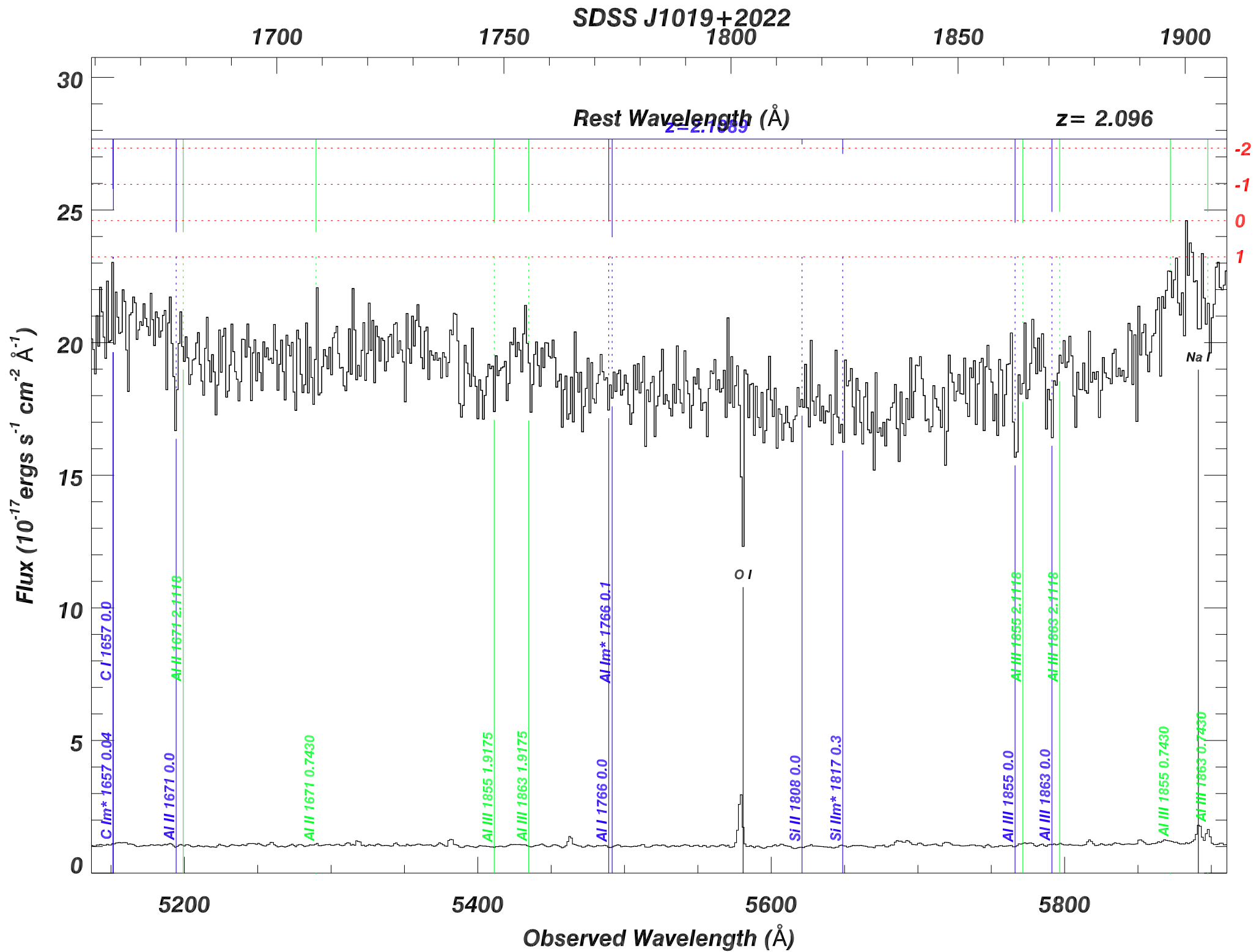
9000

Observed Wavelength (Å)









SDSS J1019+2022

1900

1950

2000

2050

2100

Rest Wavelength (\AA) $z=2.1089$

$z=2.096$

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

30

25

20

15

10

5

0

-2

-1

0

1

Na I

Al III 1855 0.7430

Al III 1863 0.7430

Al I 1932 0.0

Al Im* 1936 0.1

O I

6000

6200

6400

Observed Wavelength (\AA)

SDSS J1019+2022

2100

2150

2200

2250

2300

$z=2.1089$

Rest Wavelength (Å)

$z= 2.096$

-2
-1
0
1

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

20
15
10
5
0

6600

6800

7000

7200

Observed Wavelength (Å)

Fe II 2344 1.9175

Ca II 3935 0.7430

Ca II 3970 0.7430

Fe II 2374 1.9175

Fe II 2383 1.9175

