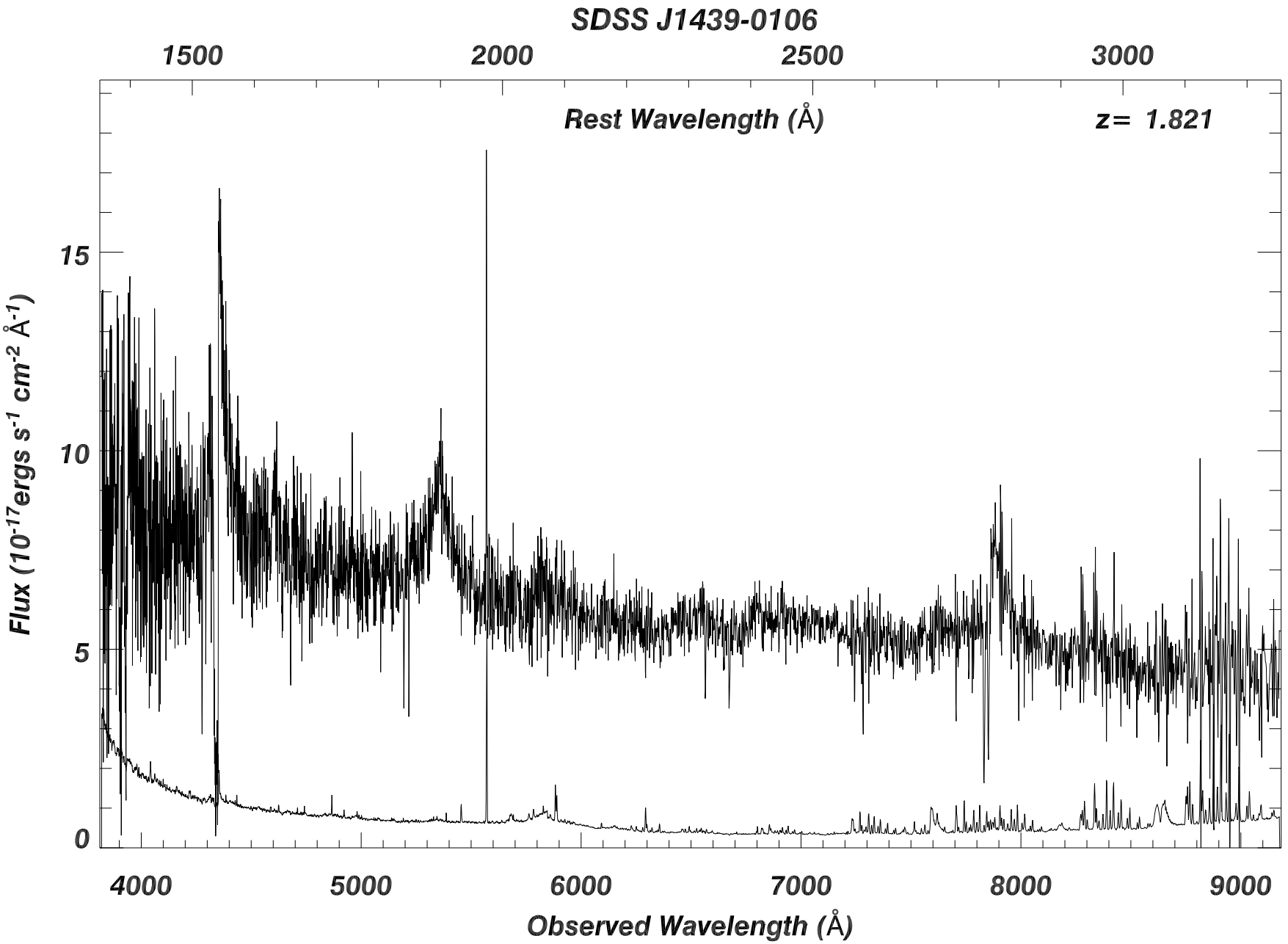
SDSS J1439-0106
1500
2000
2500
3000
Rest Wavelength (Å)
z= 1.821
15
10
5
0
Flux (10^{-17}ergs s^{-1} cm^{-2} Å^{-1})
4000
5000
6000
7000
8000
9000
Observed Wavelength (Å)

SDSS J1439-0106
Rest Wavelength (Å)
Observed Wavelength (Å)
Flux (10^{-17}ergs s^{-1} cm^{-2} Å^{-1})
z = 1.821
z=1.8004
Fe II 1608 0.0
Fe III* 1585 2.8
Fe III* 1581 2.4
Fe III* 1575 3.1
Fe III* 1570 2.8
Fe III* 1564 2.4
Fe III* 1559 1.9
C IV 1551 0.0
C IV 1548 0.0
Si III* 1533 0.3
Si II 1527 0.0
Ni II 1455 0.0
Fe III* 1448 27.3
Fe III* 1431 26.2
Fe III* 1425 2.4
Ni III* 1411 1.5
Si IV 1403 0.0
Si IV 1394 0.0
Ni III* 1381 1.5
Fe III* 1377 13.9
Ni II 1370 0.0

SDSS J1439-0106
z= 1.821
z=1.8004
Rest Wavelength (Å)
Observed Wavelength (Å)
Flux (10^{-17}ergs s^{-1} cm^{-2} Å^{-1})
Fe II* 1581 2.4
Fe II* 1585 2.8
Fe II 1608 0.0
Fe II* 1622 0.4
Fe II* 1629 0.7
Fe II* 1636 0.9
Fe II* 1650 8.7
Fe II* 1659 2.4
Al II 1671 0.0
Fe II* 1679 13.5
Fe II* 1686 2.4
Fe II* 1691 13.5
Fe II* 1697 1.9
Fe II* 1702 1.9
Ni II 1710 0.0
Fe II* 1721 2.8
Fe II* 1726 3.1
Ni II 1742 0.0
Ni II 1752 0.0
Fe II* 1761 16.4
Fe II* 1785 23.3
Ni II* 1788 1.5
Si II 1808 0.0
Si II* 1817 0.3

SDSS J1439-0106
z= 1.821
z=1.8004
Rest Wavelength (Å)
Observed Wavelength (Å)
Flux (10^{-17}ergs s^{-1} cm^{-2} Å^{-1})
Si II 1808 0.0
Si IIm* 1817 0.3
Al III 1855 0.0
Al III 1863 0.0
Fe IIm* 1877 20.3
Fe IIm* 1889 20.8
Fe IIm* 1895 30.1
Fe IIm* 1914 30.1
Fe IIm* 1926 30.1
Fe IIm* 2001 20.3
Fe IIm* 2008 13.7
Fe IIm* 2016 13.7
Ni IIm* 2020 24.8

SDSS J1439-0106
Rest Wavelength (Å)
Observed Wavelength (Å)
Flux (10^{-17}ergs s^{-1} cm^{-2} Å^{-1})
z = 1.821
z=1.8004
Fe IIIm* 2016 13.7
Ni IIm* 2020 24.8
Fe IIIm* 2062 41.0
Fe IIIm* 2069 41.0
Fe IIIm* 2080 41.0
Ni IIm* 2098 23.1
Fe IIIm* 2165 13.5
Ni IIm* 2166 8.4
Ni IIm* 2175 9.3
Ni IIm* 2181 24.8
Ni IIm* 2185 10.7
Ni IIm* 2202 10.7
Ni IIm* 2207 10.1
Ni IIm* 2217 8.4
Ni IIm* 2226 9.3
Fe IIm* 2235 20.8
Ni IIm* 2255 10.7

SDSS J1439-0106
Rest Wavelength (Å)
Observed Wavelength (Å)
Flux (10^{-17}ergs s^{-1} cm^{-2} Å^{-1})
z = 1.821
z = 1.8004
Fe IIm* 2235 20.8
Ni IIm* 2255 10.7
Ni IIm* 2265 10.1
Ni IIm* 2271 9.3
Ni IIm* 2275 24.8
Ni IIm* 2279 13.6
Ni IIm* 2288 15.0
Ni IIm* 2299 15.0
Ni IIm* 2304 9.3
Ni IIm* 2317 8.4
Fe IIm* 2328 0.7
Fe IIm* 2333 0.4
Fe IIm* 2339 0.9
Fe II 2344 0.0
Fe IIm* 2349 0.7
Fe IIm* 2360 0.9
Fe IIm* 2366 0.4
Fe II 2374 0.0
Fe II 2383 0.0
Fe IIm* 2389 0.4
Fe IIm* 2396 0.4
Fe IIm* 2406 0.7
Fe IIm* 2411 0.9
Fe IIm* 2425 22.6
Fe IIm* 2429 31.5
Fe IIm* 2434 32.9
Ni IIm* 2439 13.6
Fe IIm* 2440 25.4
Fe IIm* 2448 32.9
Fe IIm* 2455 32.9
Fe IIm* 2460 25.8
Fe IIm* 2470 31.5
Fe IIm* 2476 26.0

SDSS J1439-0106
Rest Wavelength (Å)
Observed Wavelength (Å)
Flux (10^{-17} ergs s^{-1} cm^{-2} Å^{-1})
z= 1.821
z=1.8004
Fe IIm* 2448 32.9
Fe IIm* 2455 32.9
Fe IIm* 2460 25.8
Fe IIm* 2470 31.5
Fe IIm* 2476 26.0
Fe IIm* 2487 25.8
Fe IIm* 2494 21.3
Fe IIm* 2500 21.6
Fe IIm* 2504 25.4
Ni IIm* 2512 13.6
Fe IIm* 2513 21.7
Fe IIm* 2526 21.3
Fe IIm* 2530 22.6
Fe IIm* 2534 21.4
Fe IIm* 2540 21.3
Fe IIm* 2550 30.4
Fe IIm* 2551 26.4
Fe IIm* 2563 8.0
Mn II 2577 0.0
Fe II 2587 0.0
Mn II 2594 0.0
Fe II 2600 0.0
Mn II 2606 0.0
Fe IIm* 2608 0.7
Fe IIm* 2613 0.4
Fe IIm* 2632 0.7
Fe IIm* 2638 26.9
Fe IIm* 2665 27.3
Fe IIm* 2686 30.8
Fe IIm* 2693 30.4

SDSS J1439-0106
Rest Wavelength (Å)
Observed Wavelength (Å)
Flux (10^{-17}ergs s^{-1} cm^{-2} Å^{-1})
z= 1.821
z=1.8004
Fe IIm* 2874 30.8
Mg I 2853 0.0
Fe IIm* 2832 25.8
Fe IIm* 2785 26.2
Fe IIm* 2780 26.4
Mg II 2796 0.0
Mg II 2804 0.0
Fe IIm* 2768 26.2
Fe IIm* 2763 8.8
Fe IIm* 2757 8.0
Fe IIm* 2750 8.4
Fe IIm* 2740 8.0
Fe IIm* 2728 8.4
Fe IIm* 2715 8.0
Fe IIm* 2705 27.3
Fe IIm* 2693 30.4
Fe IIm* 2686 30.8
Fe IIm* 2665 27.3

SDSS J1439-0106
z = 1.821
z=1.8004
Rest Wavelength (Å)
Observed Wavelength (Å)
Flux (10^-17 ergs s^-1 cm^-2 Å^-1)
Fe II* 3004 13.7
Fe II* 2986 13.5
Fe II* 2955 8.4
Fe II* 2945 13.7
He I* 2946 159.9
Fe II* 2927 8.0
2900
2950
3000
3050
3100
8100
8200
8300
8400
8500
8600
8700
0
2
4
6
8