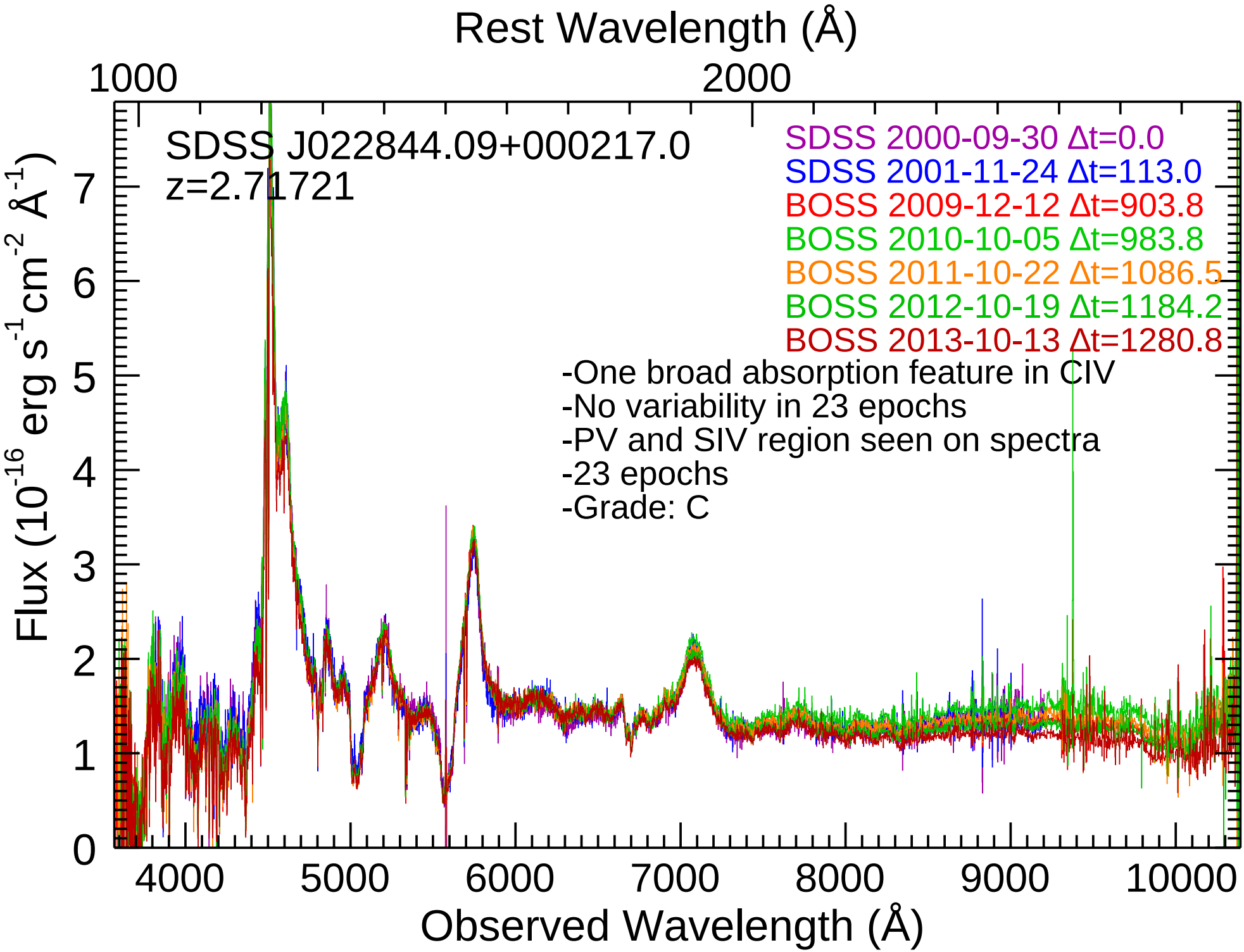
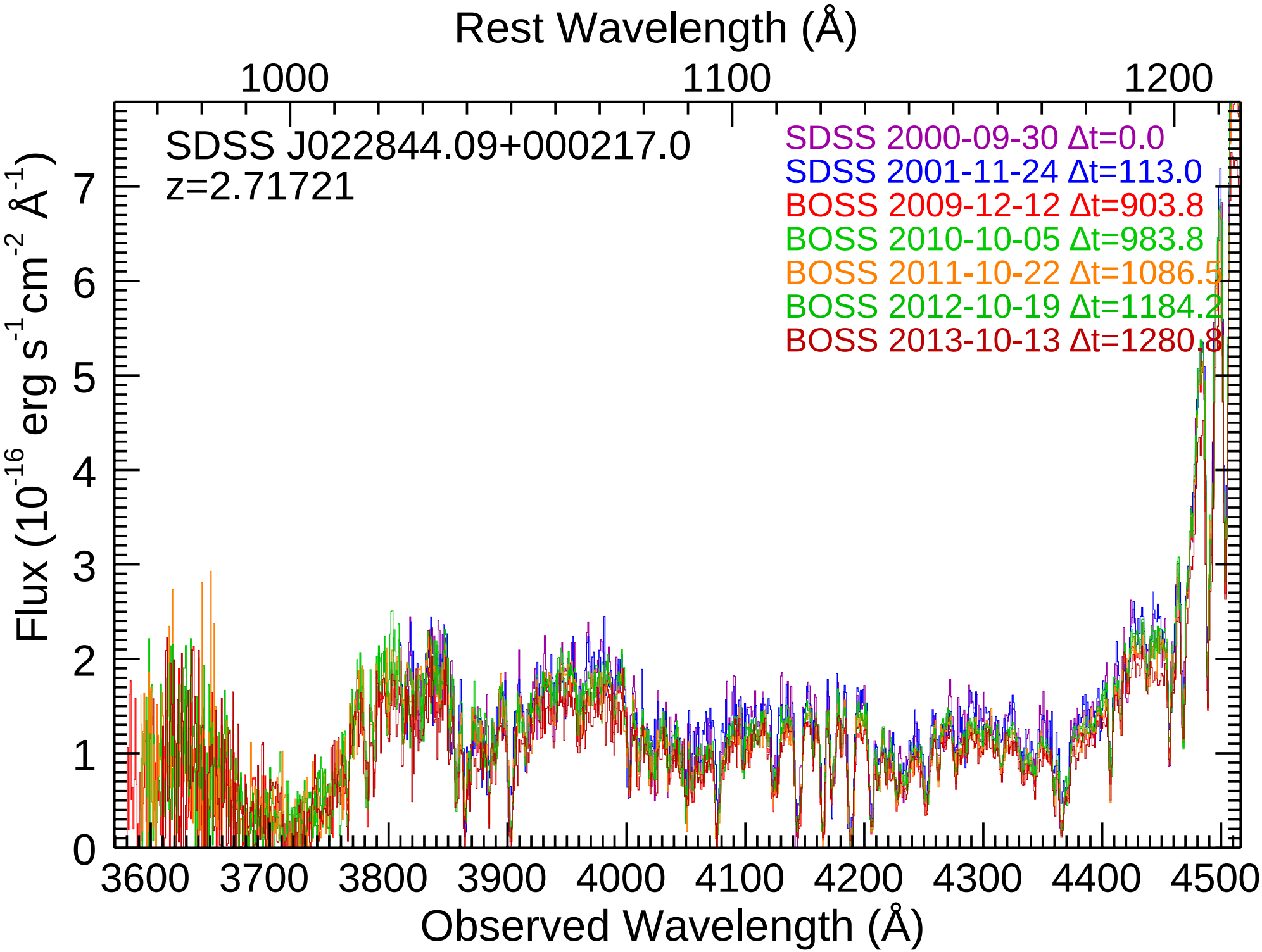
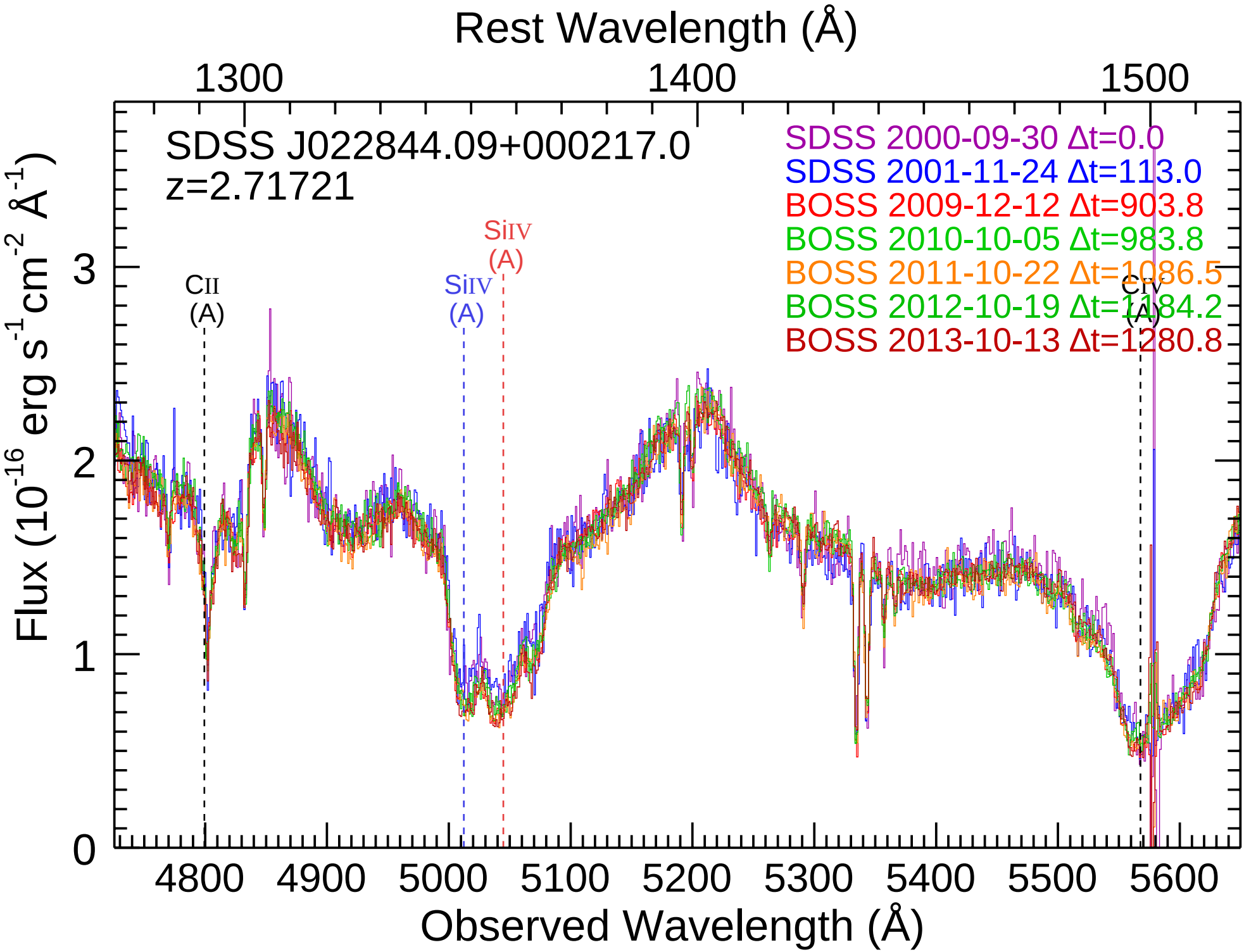
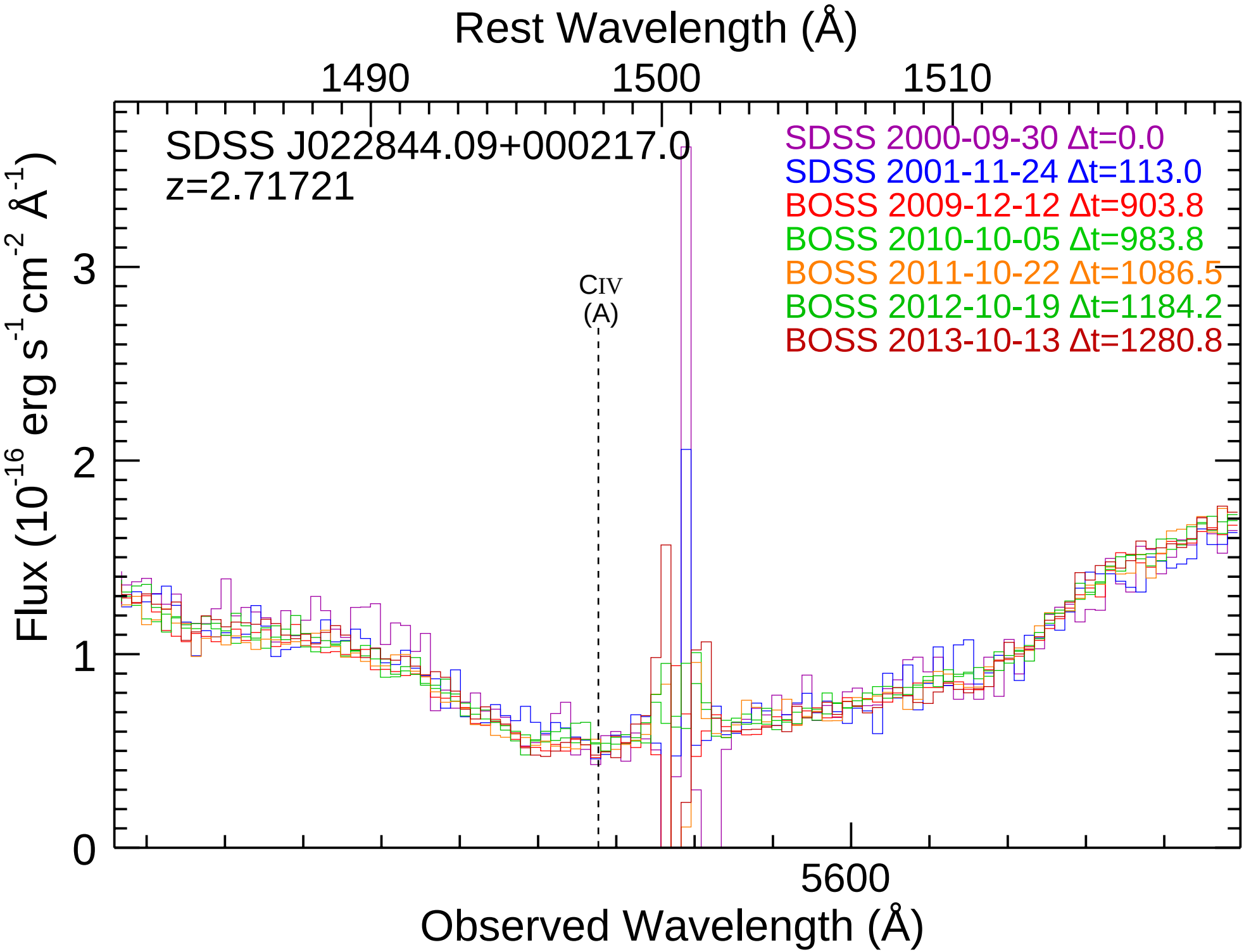
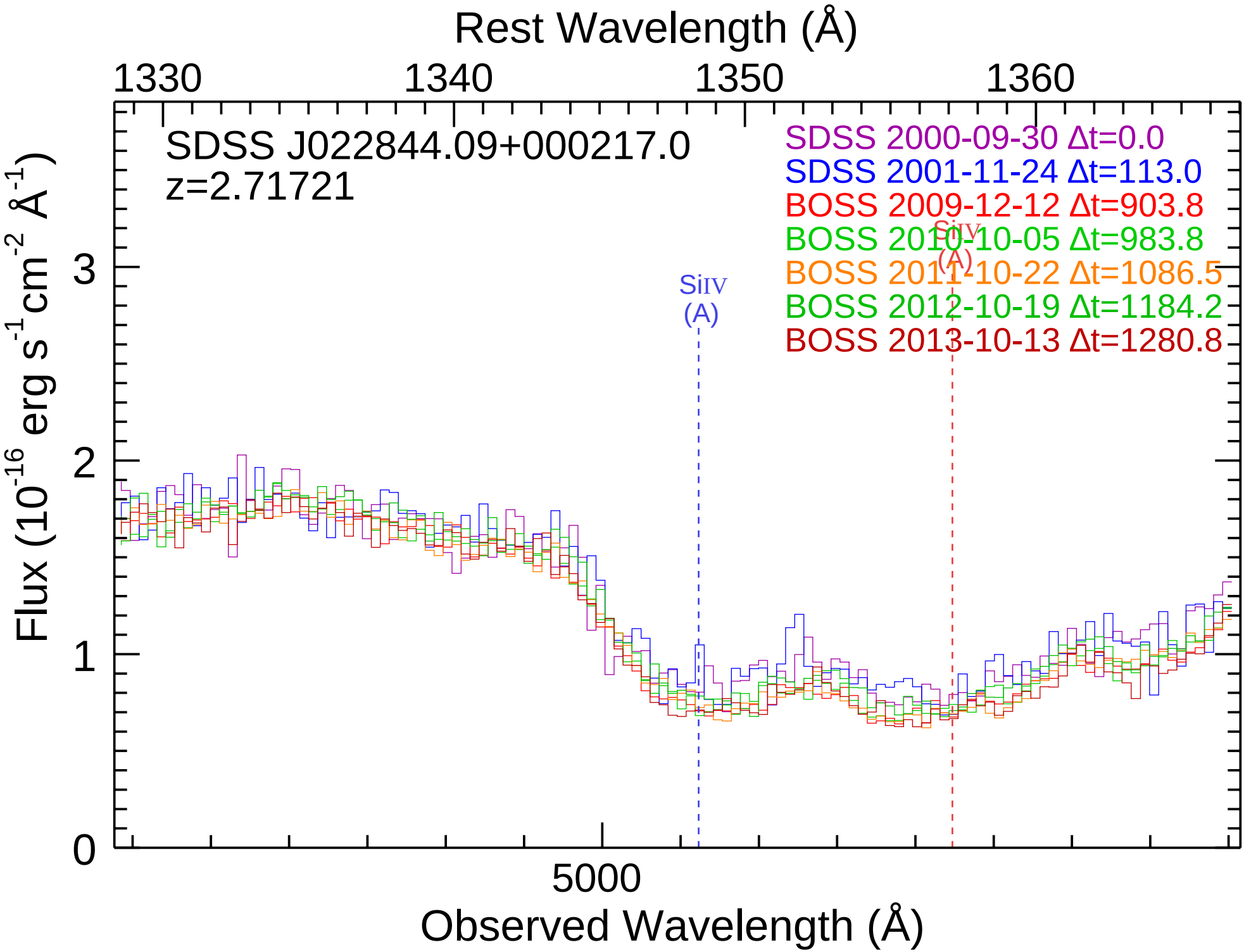
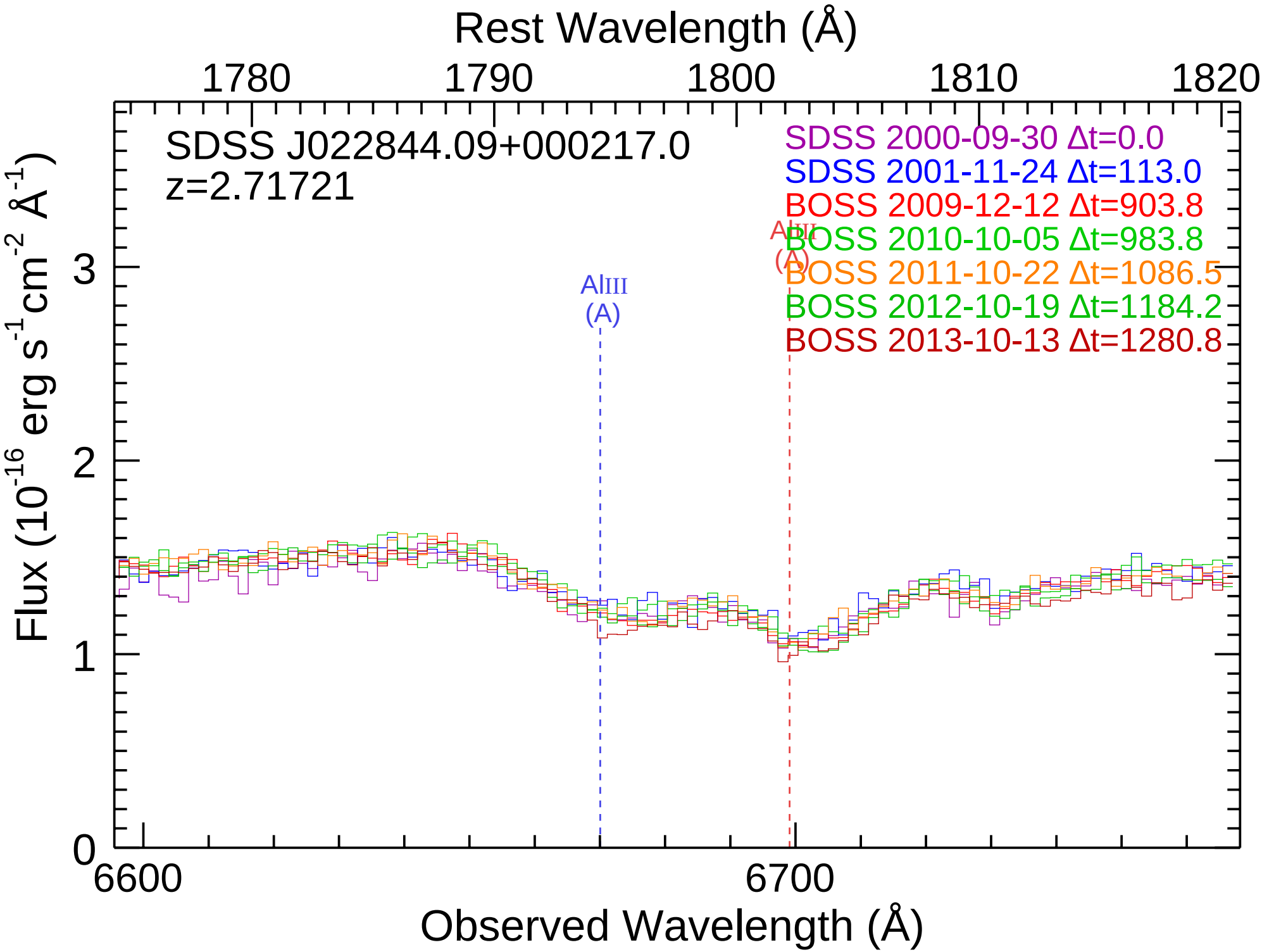

Rest Wavelength (Å)
1000
2000
SDSS J022844.09+000217.0
z=2.71721
SDSS 2000-09-30 Δt=0.0
SDSS 2001-11-24 Δt=113.0
BOSS 2009-12-12 Δt=903.8
BOSS 2010-10-05 Δt=983.8
BOSS 2011-10-22 Δt=1086.5
BOSS 2012-10-19 Δt=1184.2
BOSS 2013-10-13 Δt=1280.8
-One broad absorption feature in CIV
-No variability in 23 epochs
-PV and SIV region seen on spectra
-23 epochs
-Grade: C
Flux (10^{-16} erg s^{-1}cm^{-2} Å^{-1})
0
1
2
3
4
5
6
7
4000
5000
6000
7000
8000
9000
10000
Observed Wavelength (Å)

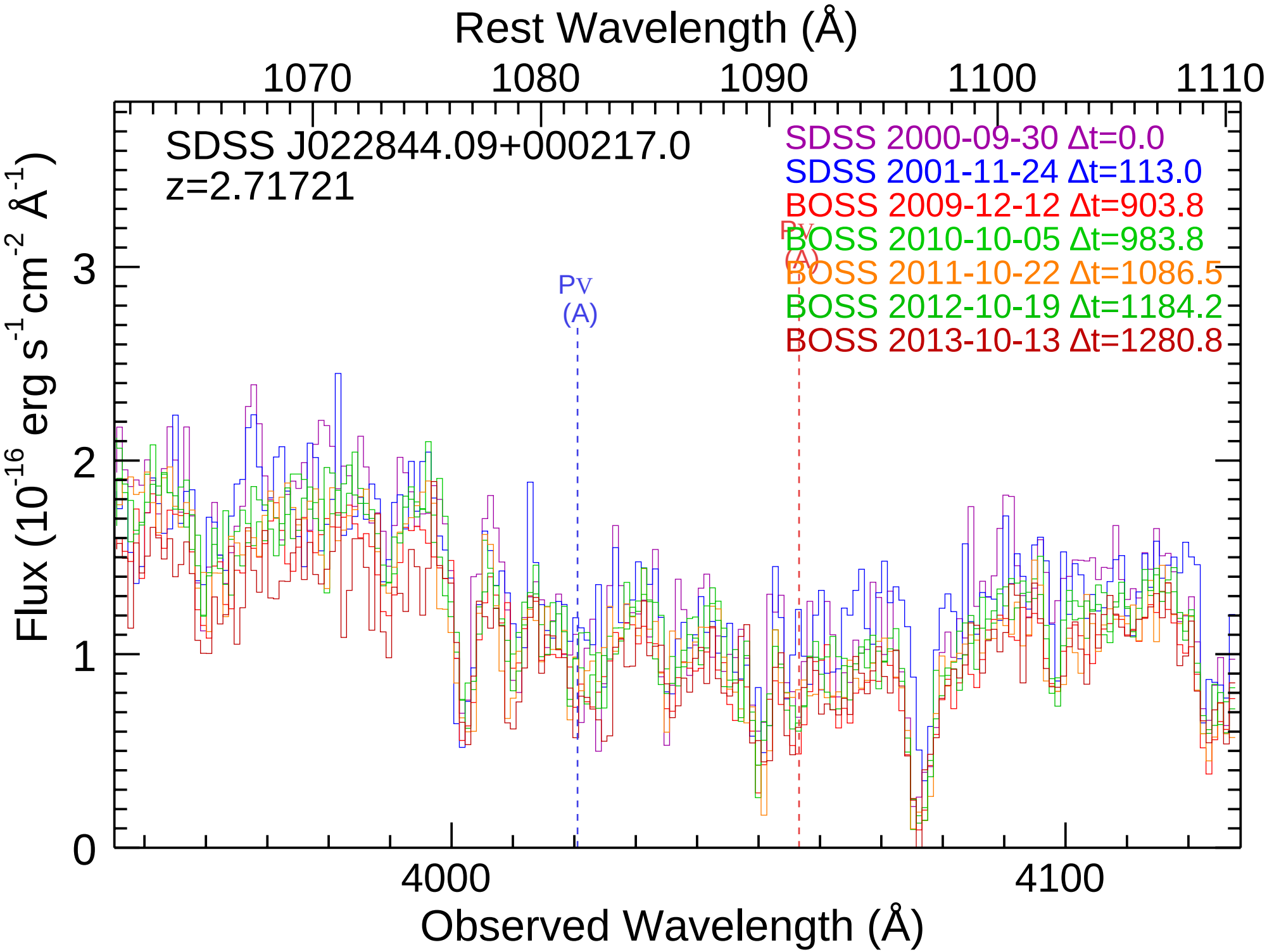

Rest Wavelength (Å)
1000
1100
1200
SDSS J022844.09+000217.0
z=2.71721
SDSS 2000-09-30 Δt=0.0
SDSS 2001-11-24 Δt=113.0
BOSS 2009-12-12 Δt=903.8
BOSS 2010-10-05 Δt=983.8
BOSS 2011-10-22 Δt=1086.5
BOSS 2012-10-19 Δt=1184.2
BOSS 2013-10-13 Δt=1280.8
Flux (10^{-16} erg s^{-1}cm^{-2} Å^{-1})
0
1
2
3
4
5
6
7
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
Observed Wavelength (Å)

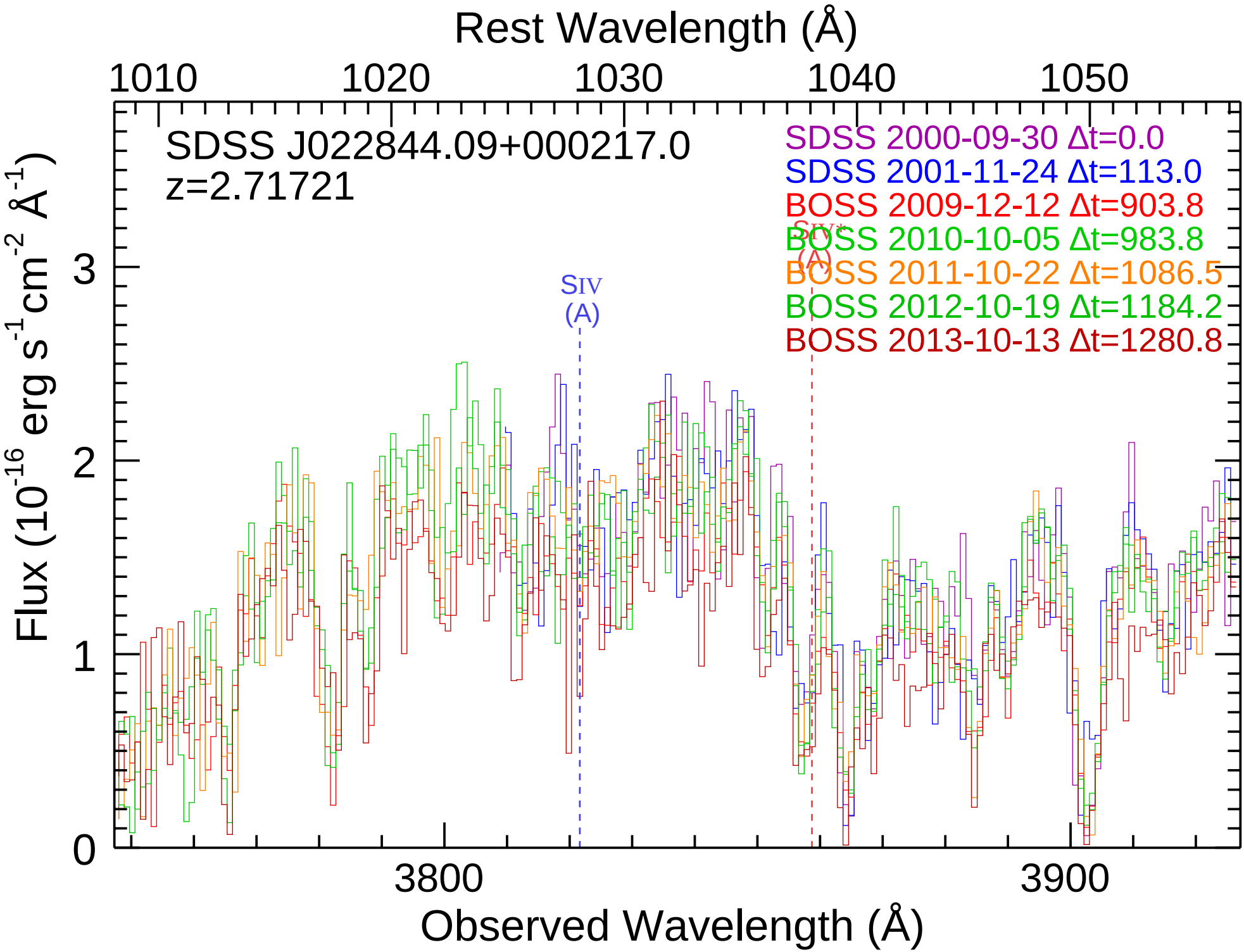

Rest Wavelength (Å)
1300
1400
1500
SDSS J022844.09+000217.0
z=2.71721
SDSS 2000-09-30 Δt=0.0
SDSS 2001-11-24 Δt=113.0
BOSS 2009-12-12 Δt=903.8
BOSS 2010-10-05 Δt=983.8
BOSS 2011-10-22 Δt=1086.5
BOSS 2012-10-19 Δt=1184.2
BOSS 2013-10-13 Δt=1280.8
CII (A)
SiIV (A)
SiIV (A)
CIV (A)
Flux (10^{-16} erg s^{-1}cm^{-2} Å^{-1})
0
1
2
3
4800
4900
5000
5100
5200
5300
5400
5500
5600
Observed Wavelength (Å)


Rest Wavelength (Å)
1490
1500
1510
SDSS J022844.09+000217.0
z=2.71721
SDSS 2000-09-30 Δt=0.0
SDSS 2001-11-24 Δt=113.0
BOSS 2009-12-12 Δt=903.8
BOSS 2010-10-05 Δt=983.8
BOSS 2011-10-22 Δt=1086.5
BOSS 2012-10-19 Δt=1184.2
BOSS 2013-10-13 Δt=1280.8
CIV
(A)
Flux (10^-16 erg s^-1 cm^-2 Å^-1)
0
1
2
3
5600
Observed Wavelength (Å)


Rest Wavelength (Å)
1330
1340
1350
1360
SDSS J022844.09+000217.0
z=2.71721
SDSS 2000-09-30 Δt=0.0
SDSS 2001-11-24 Δt=113.0
BOSS 2009-12-12 Δt=903.8
BOSS 2010-10-05 Δt=983.8
BOSS 2011-10-22 Δt=1086.5
BOSS 2012-10-19 Δt=1184.2
BOSS 2013-10-13 Δt=1280.8
SiIV (A)
SiIV (A)
Flux (10^{-16} erg s^{-1}cm^{-2} Å^{-1})
0
1
2
3
5000
Observed Wavelength (Å)


Rest Wavelength (Å)
1780
1790
1800
1810
1820
SDSS J022844.09+000217.0
z=2.71721
SDSS 2000-09-30 Δt=0.0
SDSS 2001-11-24 Δt=113.0
BOSS 2009-12-12 Δt=903.8
BOSS 2010-10-05 Δt=983.8
BOSS 2011-10-22 Δt=1086.5
BOSS 2012-10-19 Δt=1184.2
BOSS 2013-10-13 Δt=1280.8
AlIII (A)
AlIII (A)
Flux (10^{-16} erg s^{-1}cm^{-2} Å^{-1})
0
1
2
3
6600
6700
Observed Wavelength (Å)


Rest Wavelength (Å)
1070
1080
1090
1100
1110
SDSS J022844.09+000217.0
z=2.71721
SDSS 2000-09-30 Δt=0.0
SDSS 2001-11-24 Δt=113.0
BOSS 2009-12-12 Δt=903.8
BOSS 2010-10-05 Δt=983.8
BOSS 2011-10-22 Δt=1086.5
BOSS 2012-10-19 Δt=1184.2
BOSS 2013-10-13 Δt=1280.8
PV (A)
PV (A)
Flux (10^{-16} erg s^{-1}cm^{-2} Å^{-1})
0
1
2
3
4000
4100
Observed Wavelength (Å)


Rest Wavelength (Å)
1010
1020
1030
1040
1050
SDSS J022844.09+000217.0
z=2.71721
SDSS 2000-09-30 Δt=0.0
SDSS 2001-11-24 Δt=113.0
BOSS 2009-12-12 Δt=903.8
BOSS 2010-10-05 Δt=983.8
BOSS 2011-10-22 Δt=1086.5
BOSS 2012-10-19 Δt=1184.2
BOSS 2013-10-13 Δt=1280.8
SiIV* (A)
SiIV (A)
Flux (10^{-16} erg s^{-1}cm^{-2} Å^{-1})
0
1
2
3
3800
3900
Observed Wavelength (Å)