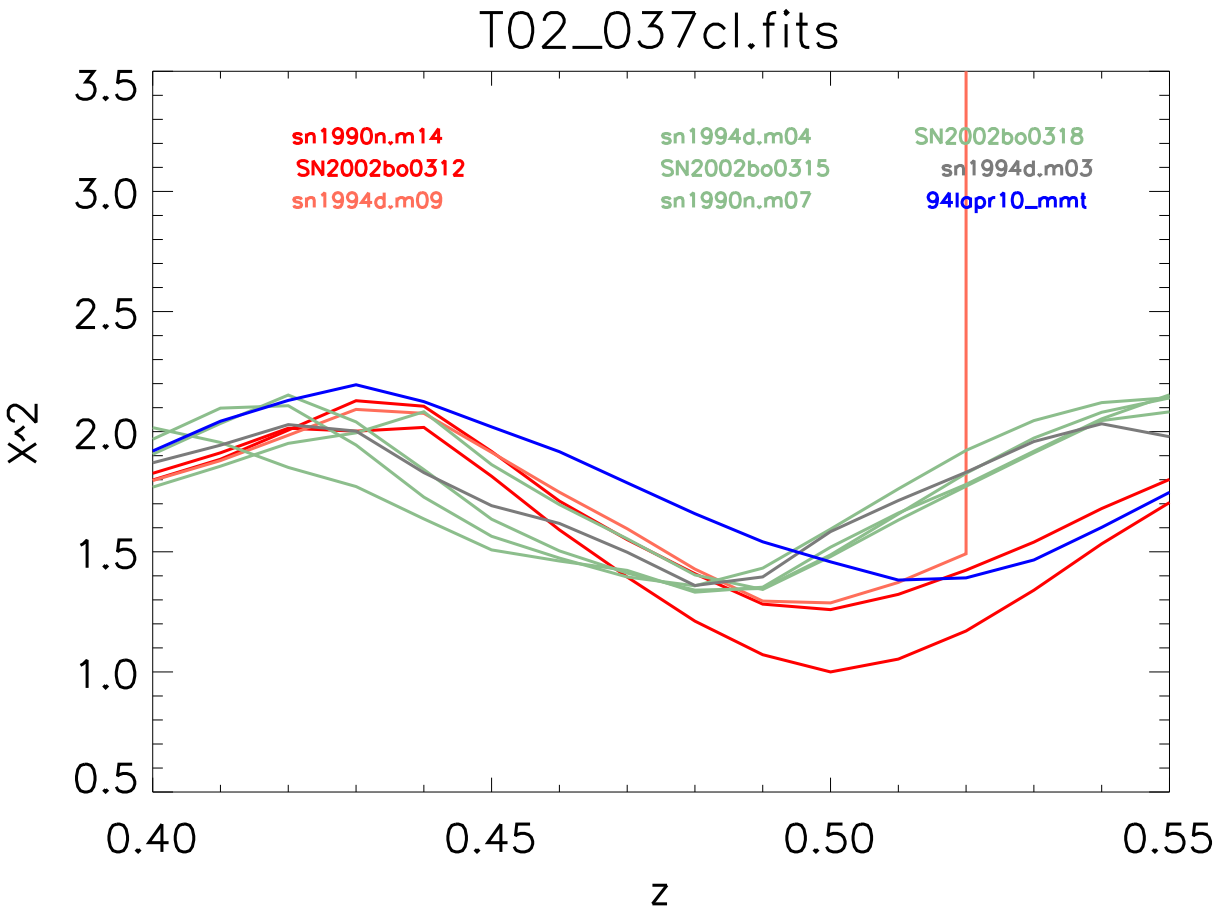
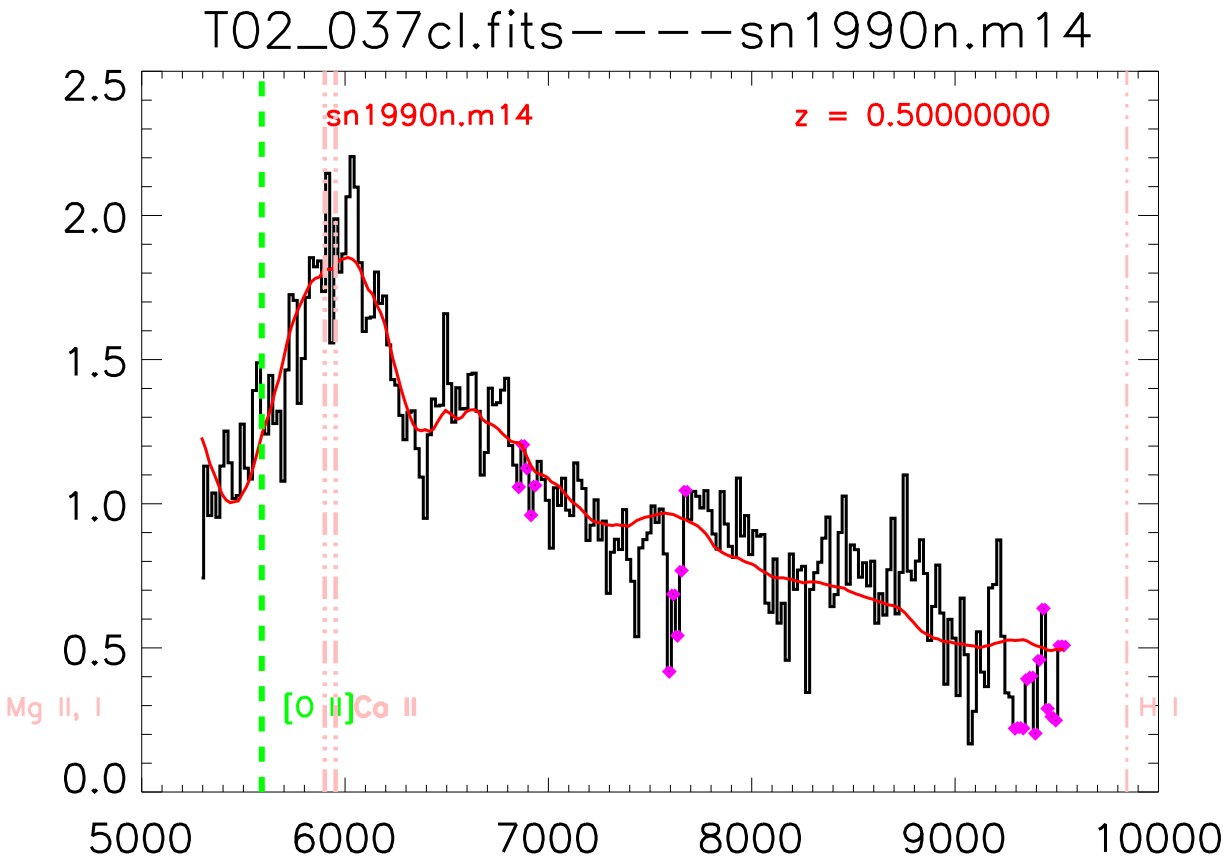
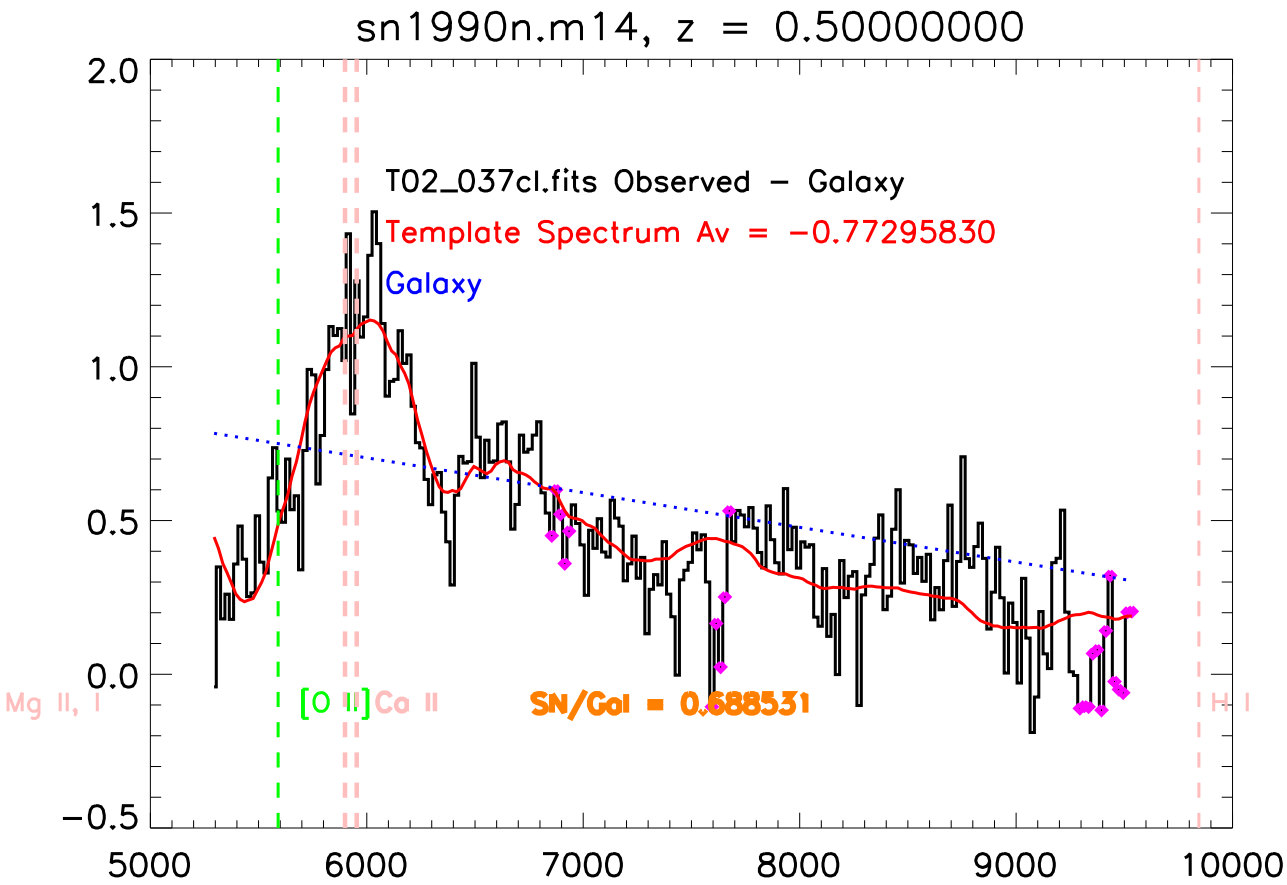
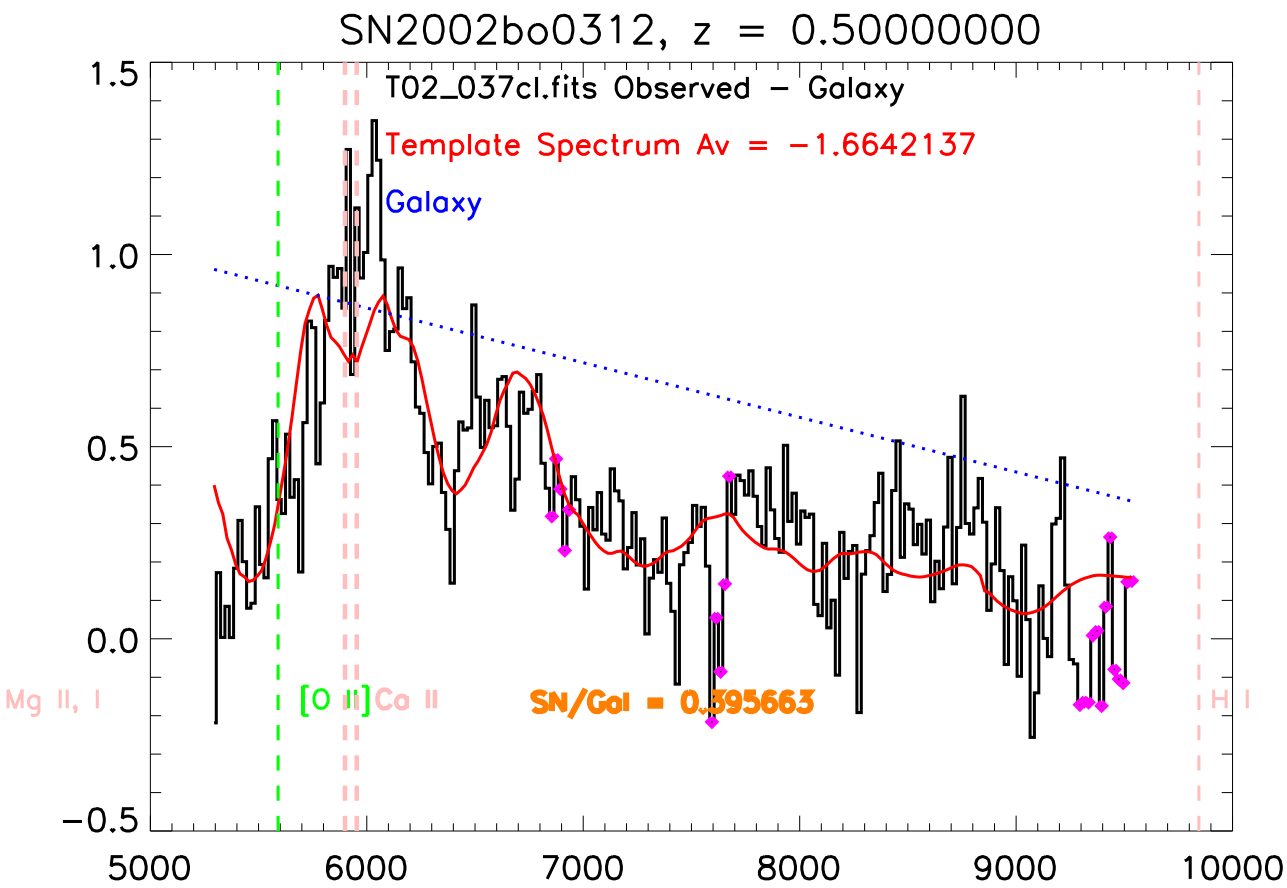
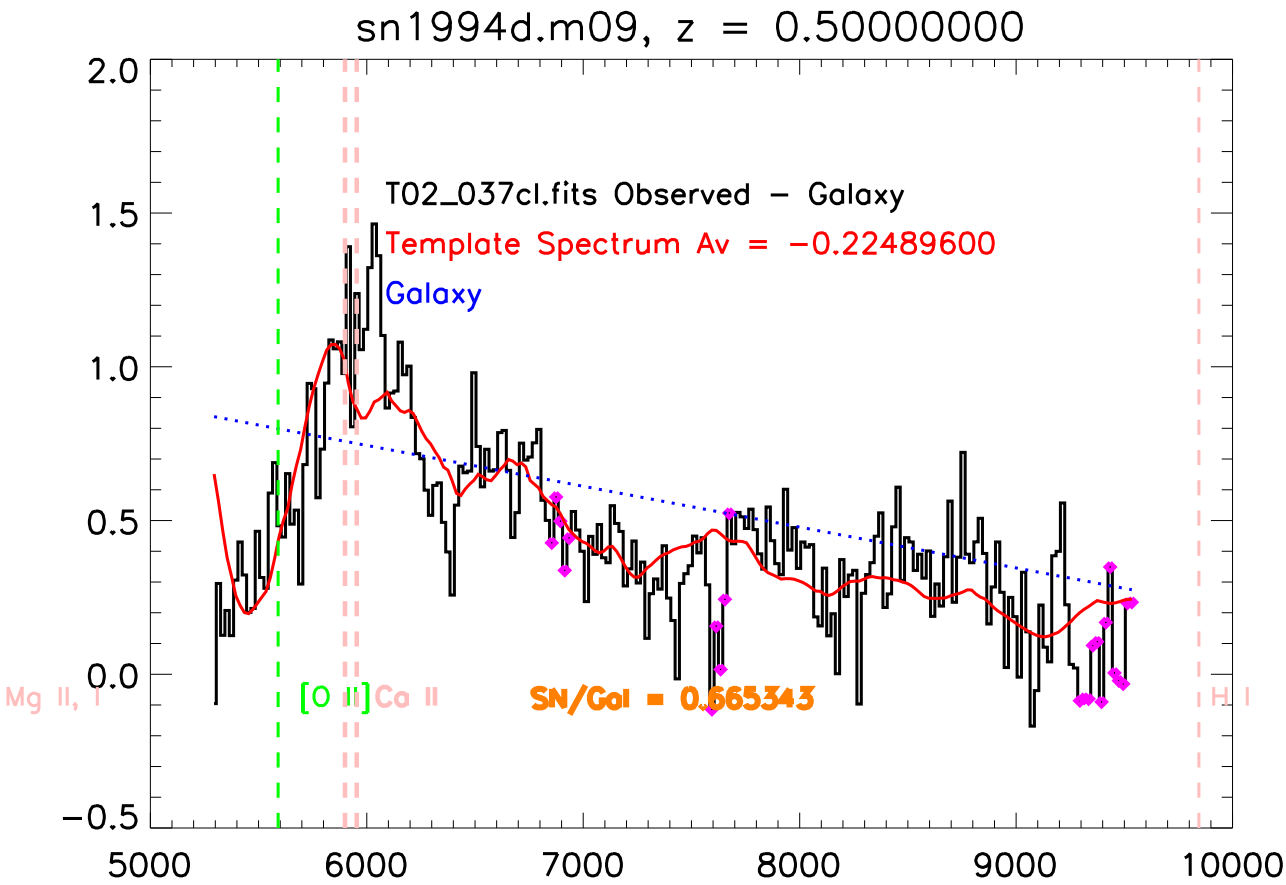
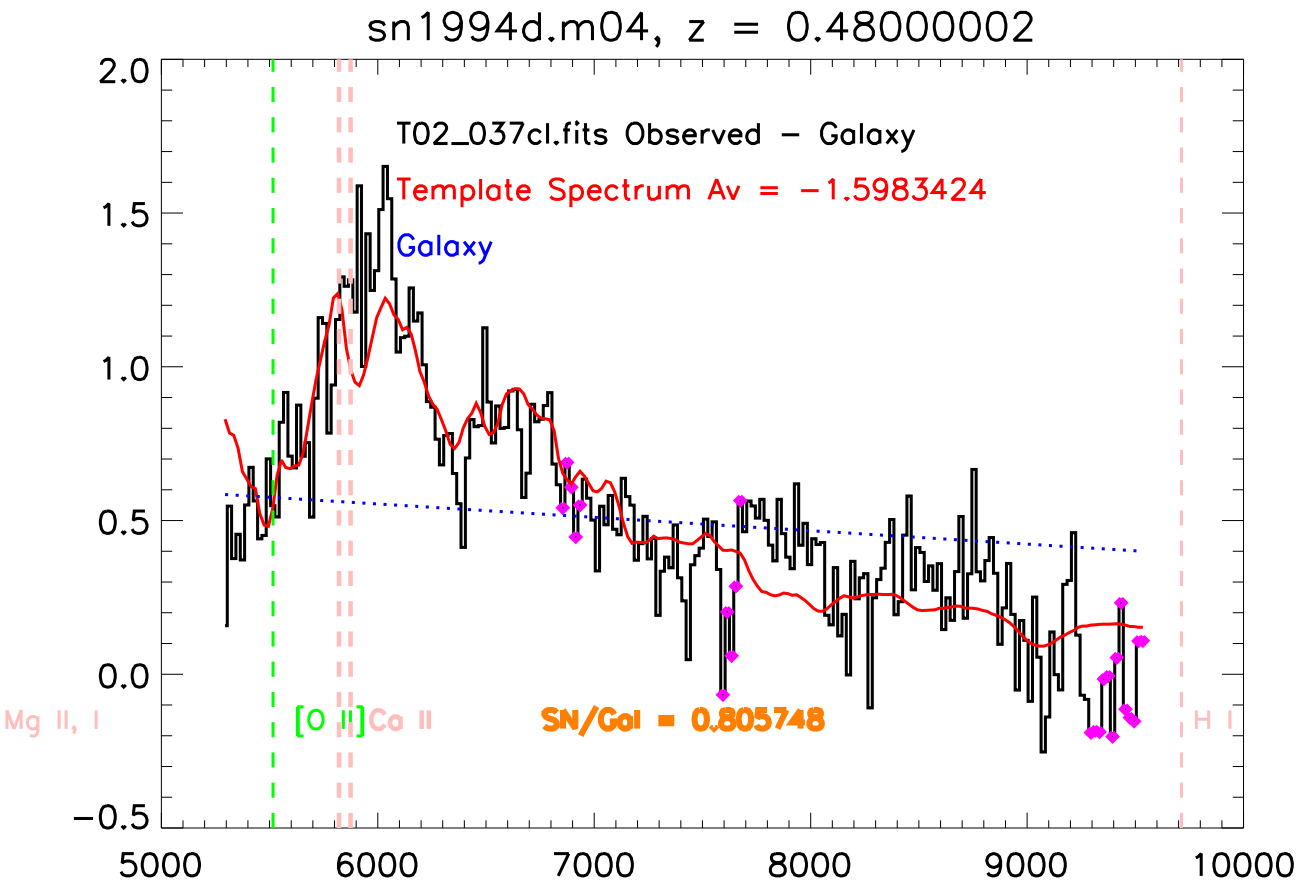

T02_037cl.fits
sn1990n.m14
SN2002bo0312
sn1994d.m09
sn1994d.m04
SN2002bo0315
sn1990n.m07
SN2002bo0318
sn1994d.m03
94Iapr10_mmt
3.5
3.0
2.5
2.0
1.5
1.0
0.5
X^2
0.40
0.45
0.50
0.55
z

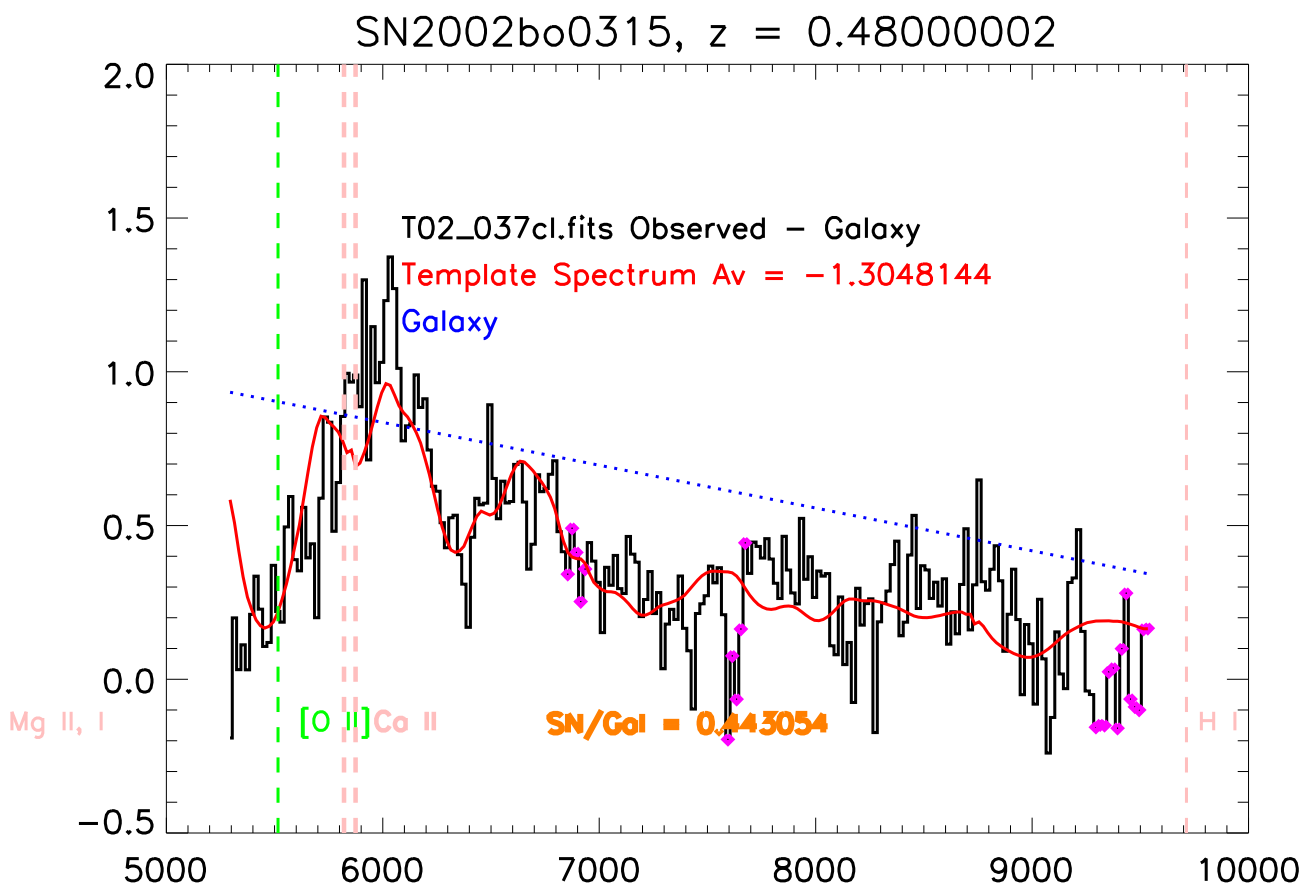

T02_037cl.fits----sn1990n.m14
sn1990n.m14
z = 0.50000000
2.5
2.0
1.5
1.0
0.5
0.0
Mg II, I
[O II]
Ca II
H I
5000
6000
7000
8000
9000
10000

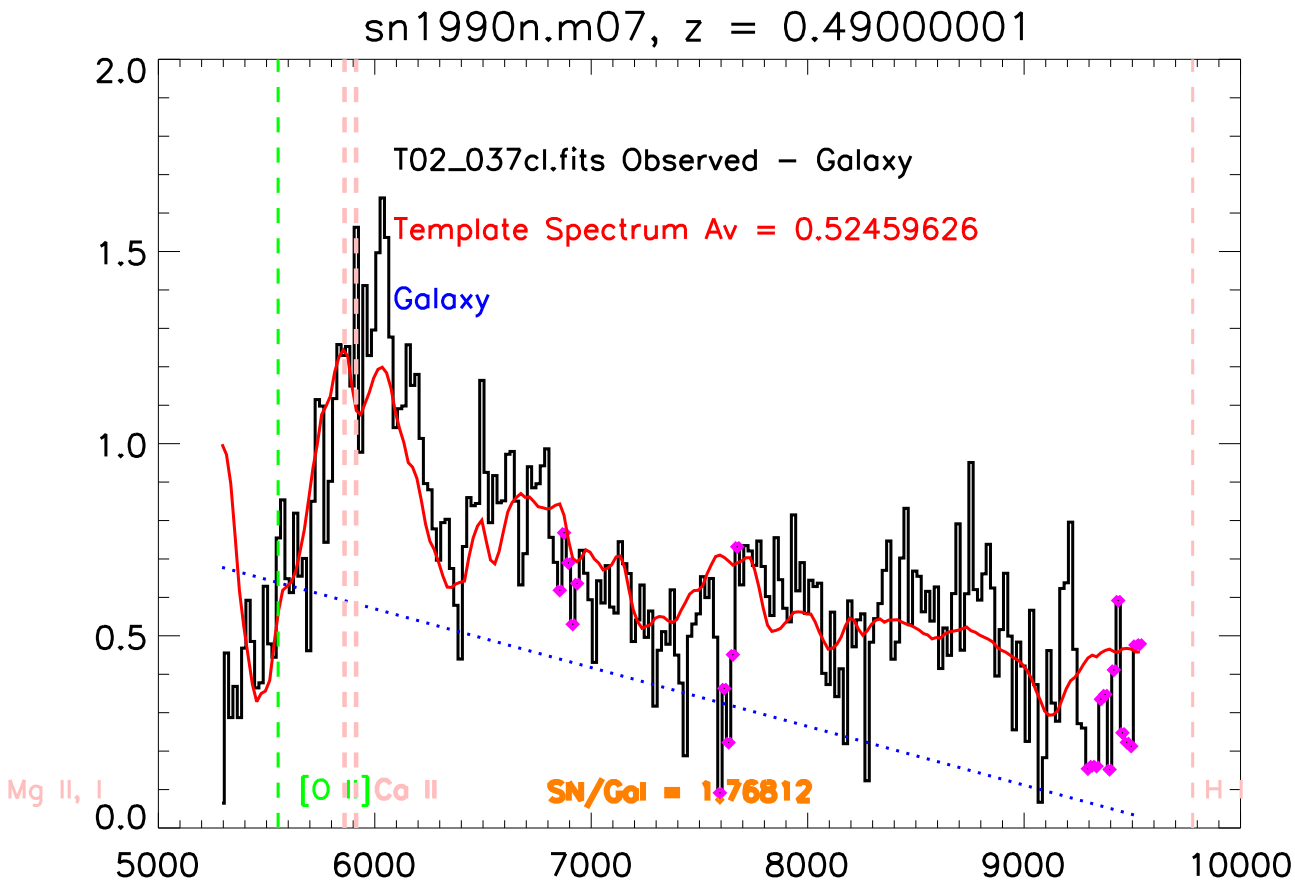

sn1990n.m14, z = 0.50000000
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.77295830
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.688531
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

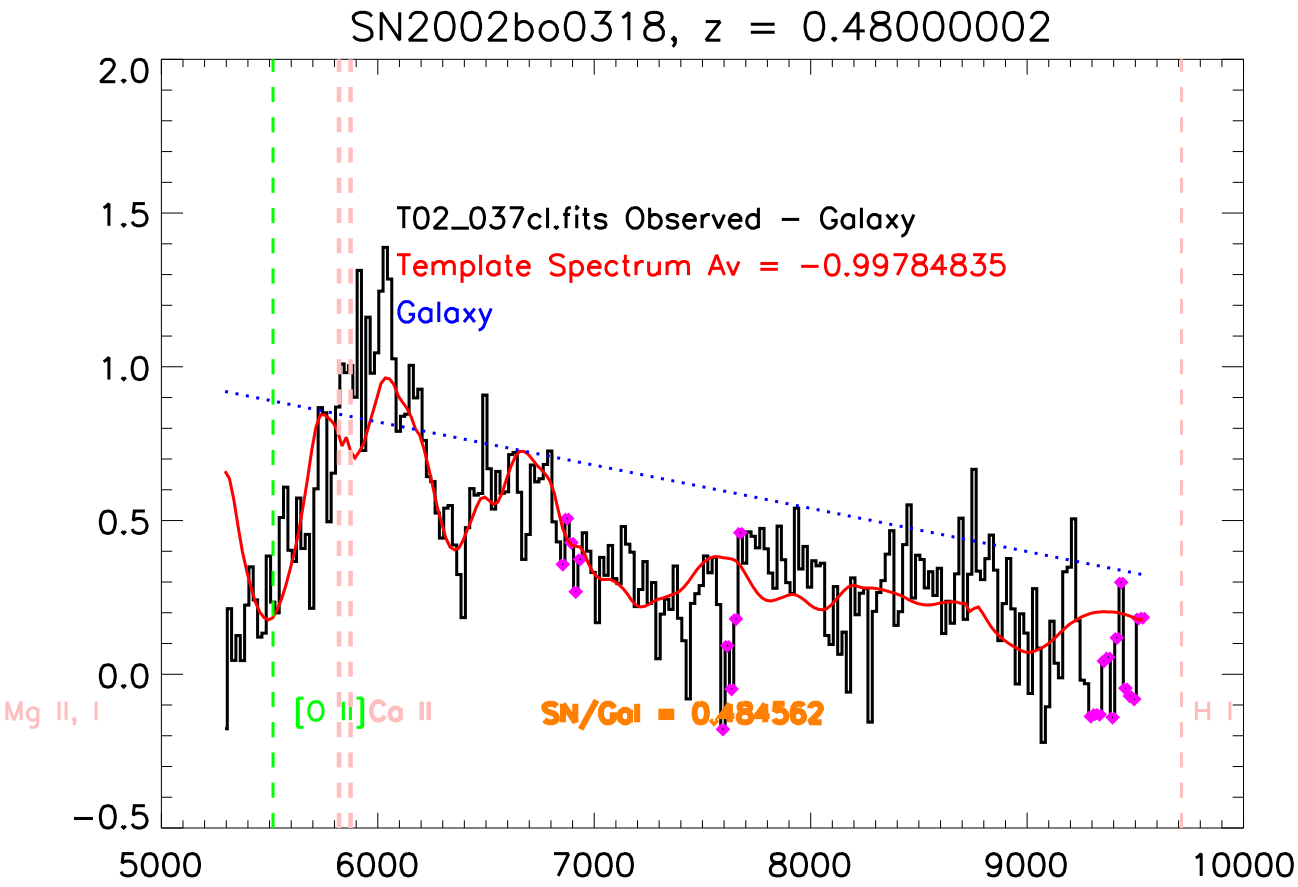

SN2002bo0312, z = 0.50000000
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −1.6642137
Galaxy
SN/Gal = 0.395663
Mg II, I
[O II]
Ca II
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

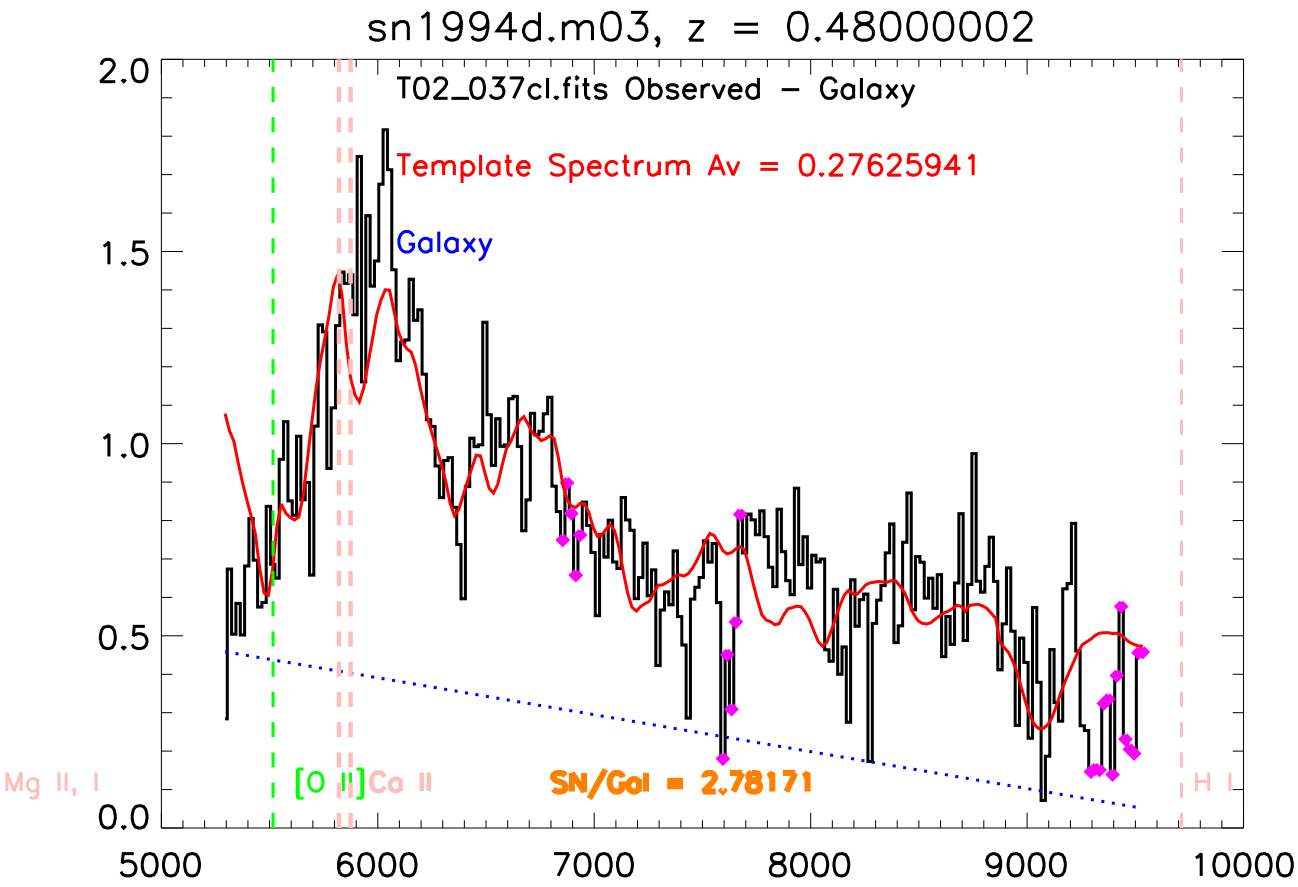

sn1994d.m09, z = 0.50000000
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.22489600
Galaxy
SN/Gal = 0.665343
Mg II, I
[O II]
Ca II
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

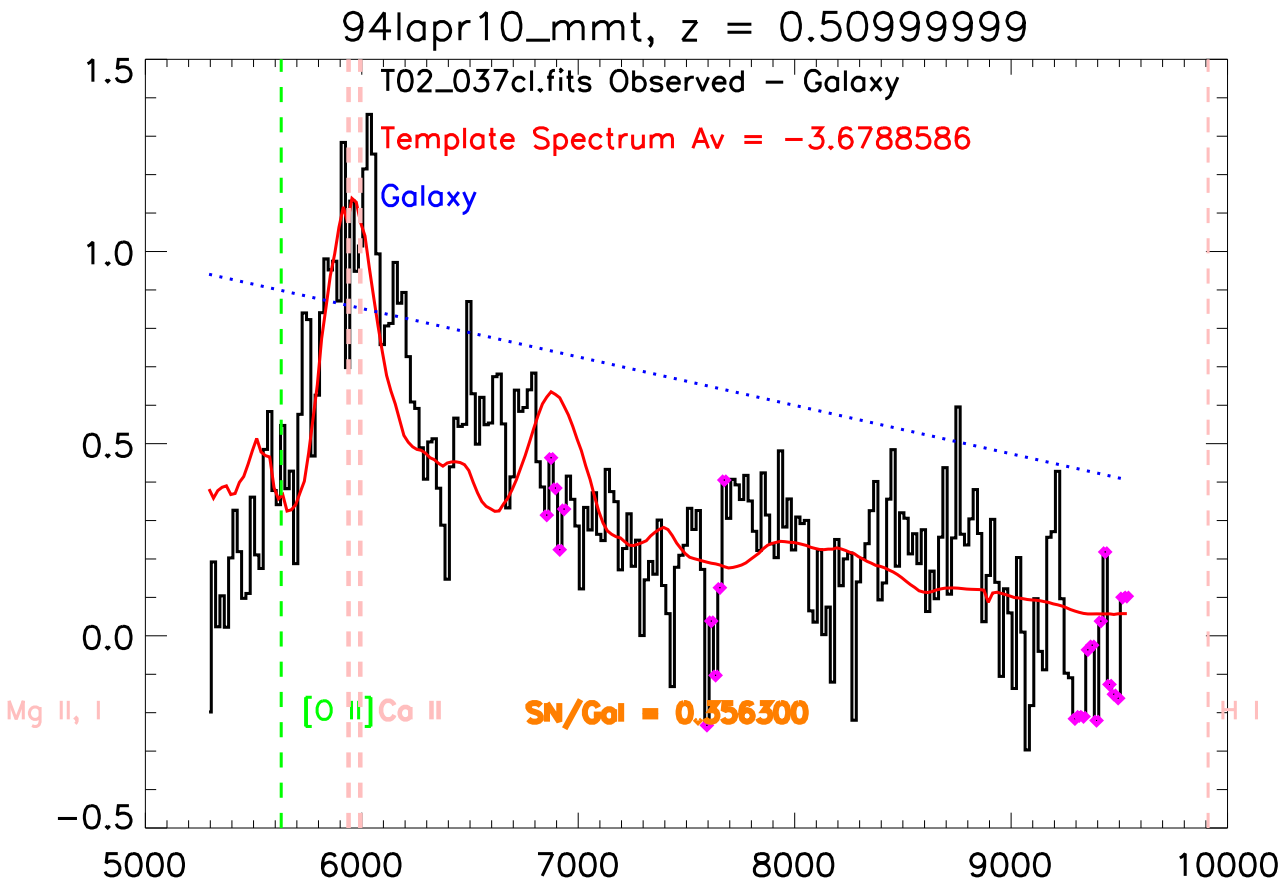

sn1994d.m04, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −1.5983424
Galaxy
SN/Gal = 0.805748
Mg II, I
[O II]
Ca II
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

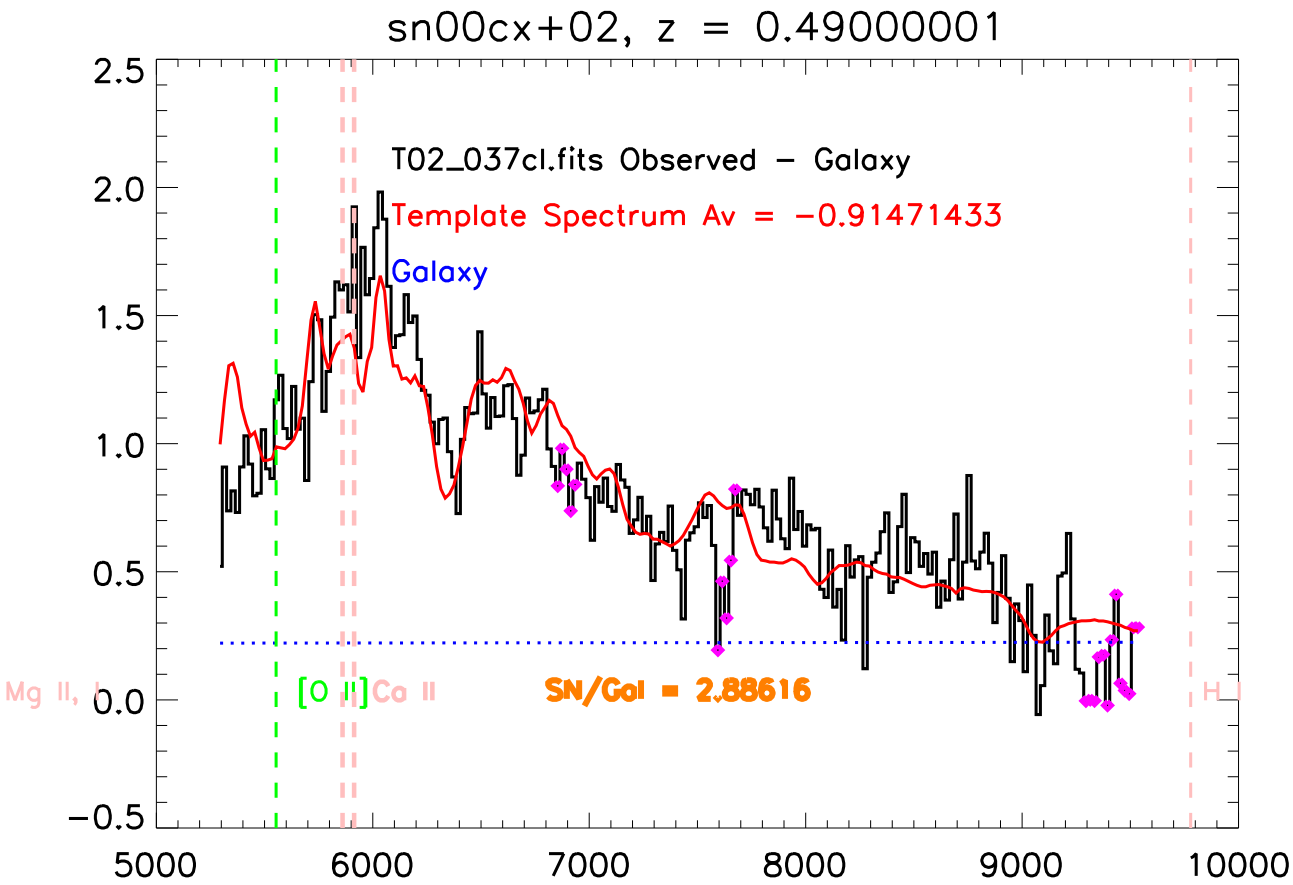

SN2002bo0315, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −1.3048144
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.443054
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

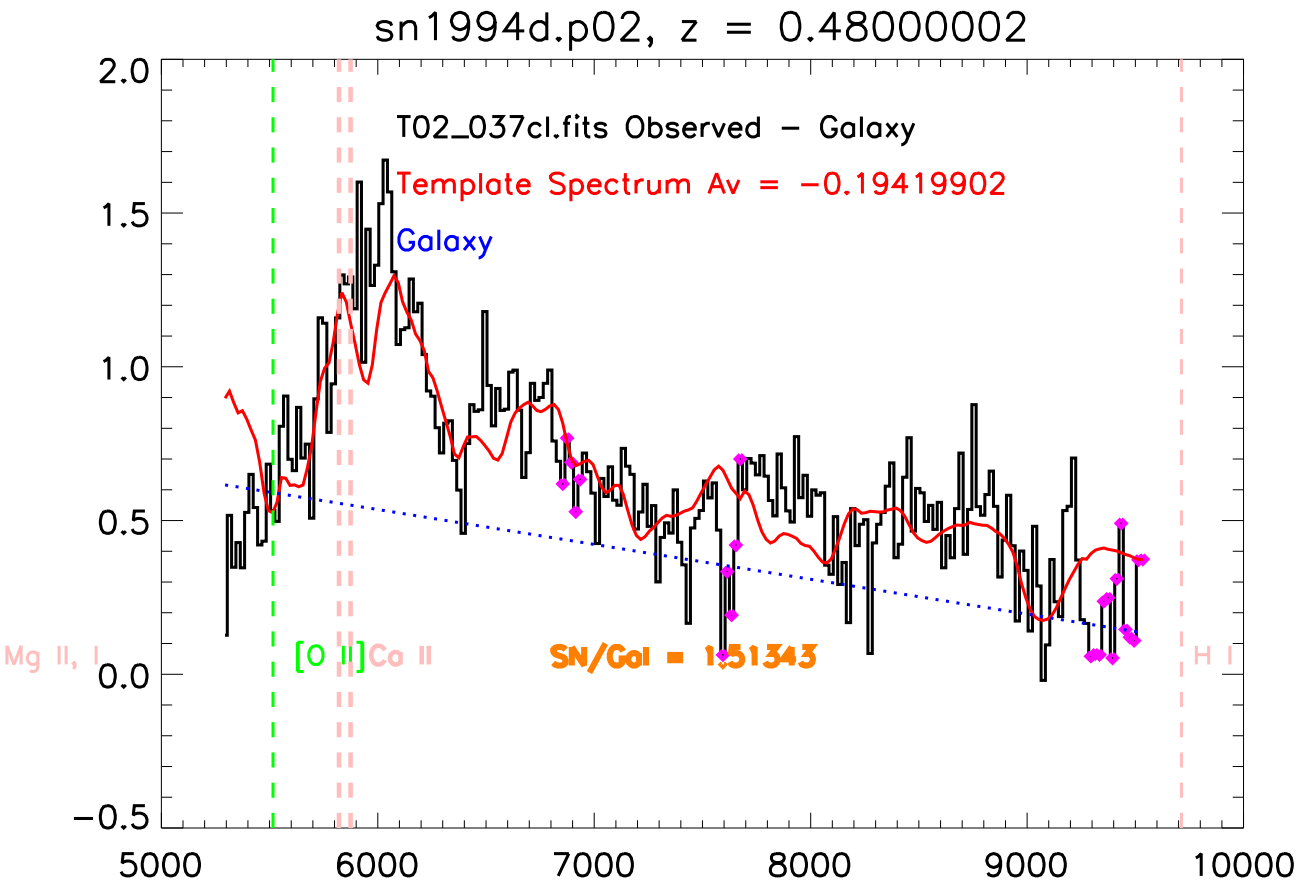

sn1990n.m07, z = 0.49000001
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = 0.52459626
Galaxy
SN/Gal = 1.76812
Mg II, I
[O II]
Ca II
H
2.0
1.5
1.0
0.5
0.0
5000
6000
7000
8000
9000
10000

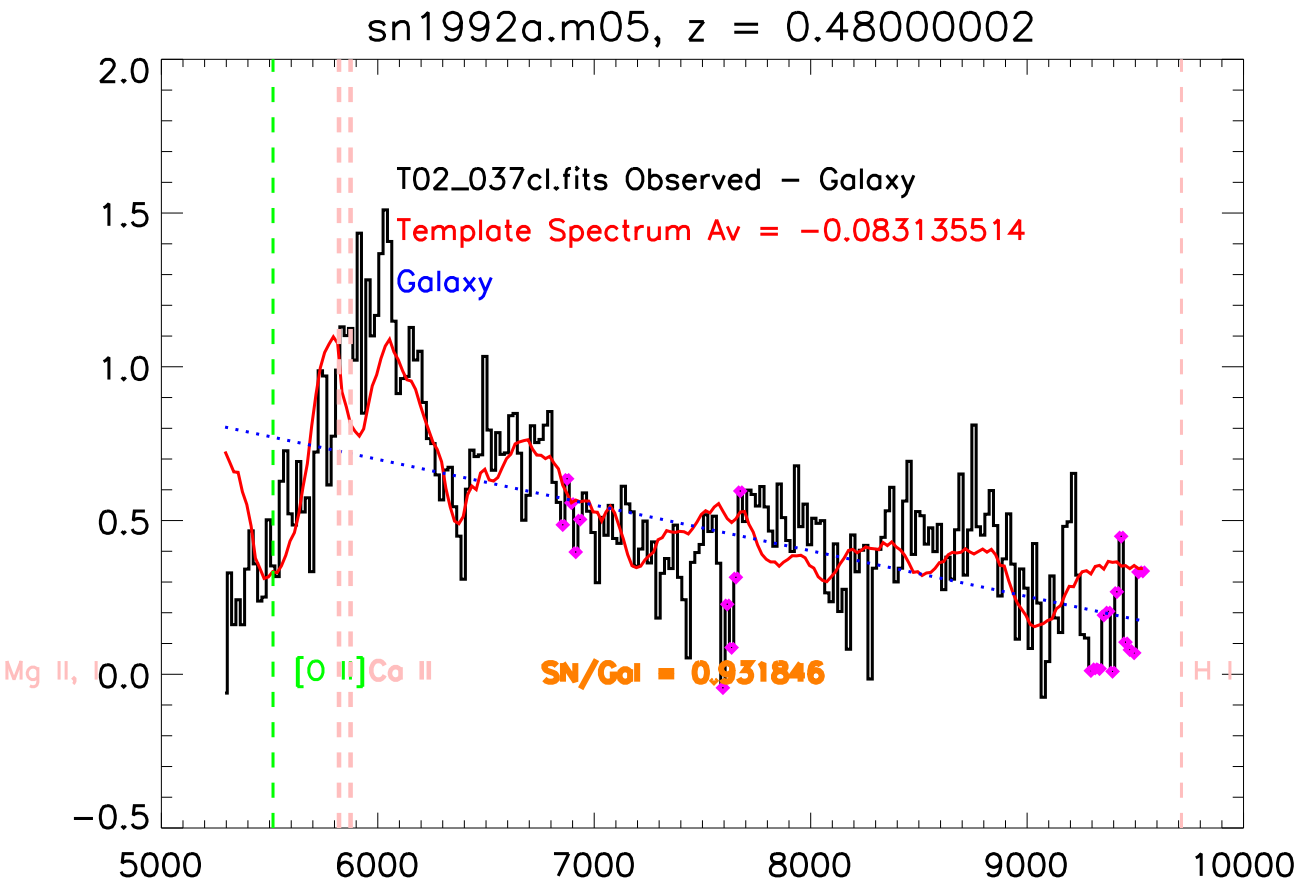

SN2002bo0318, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.99784835
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.484562
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

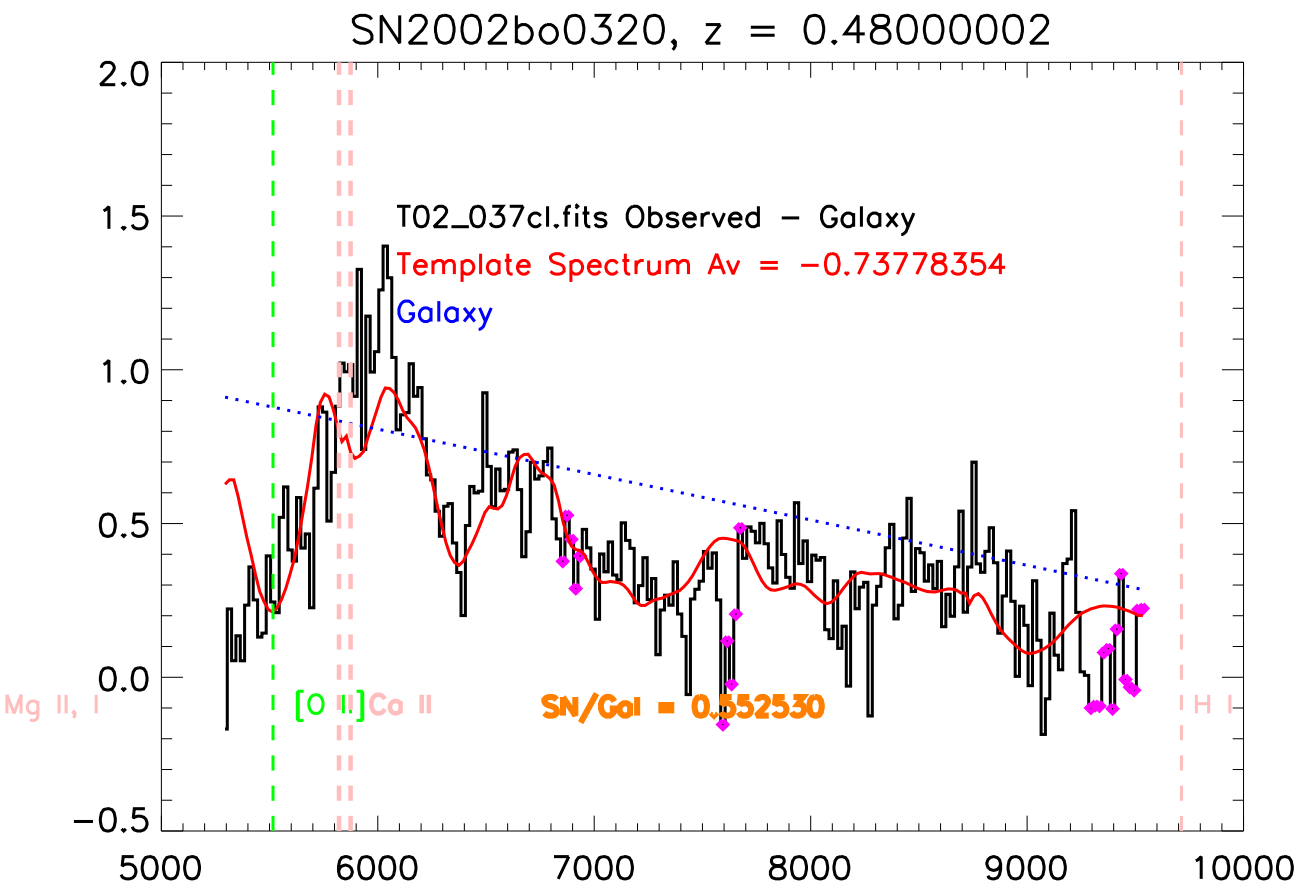

sn1994d.m03, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = 0.27625941
Galaxy
SN/Gal = 2.78171
Mg II, I
[O II]
Ca II
H I
2.0
1.5
1.0
0.5
0.0
5000
6000
7000
8000
9000
10000

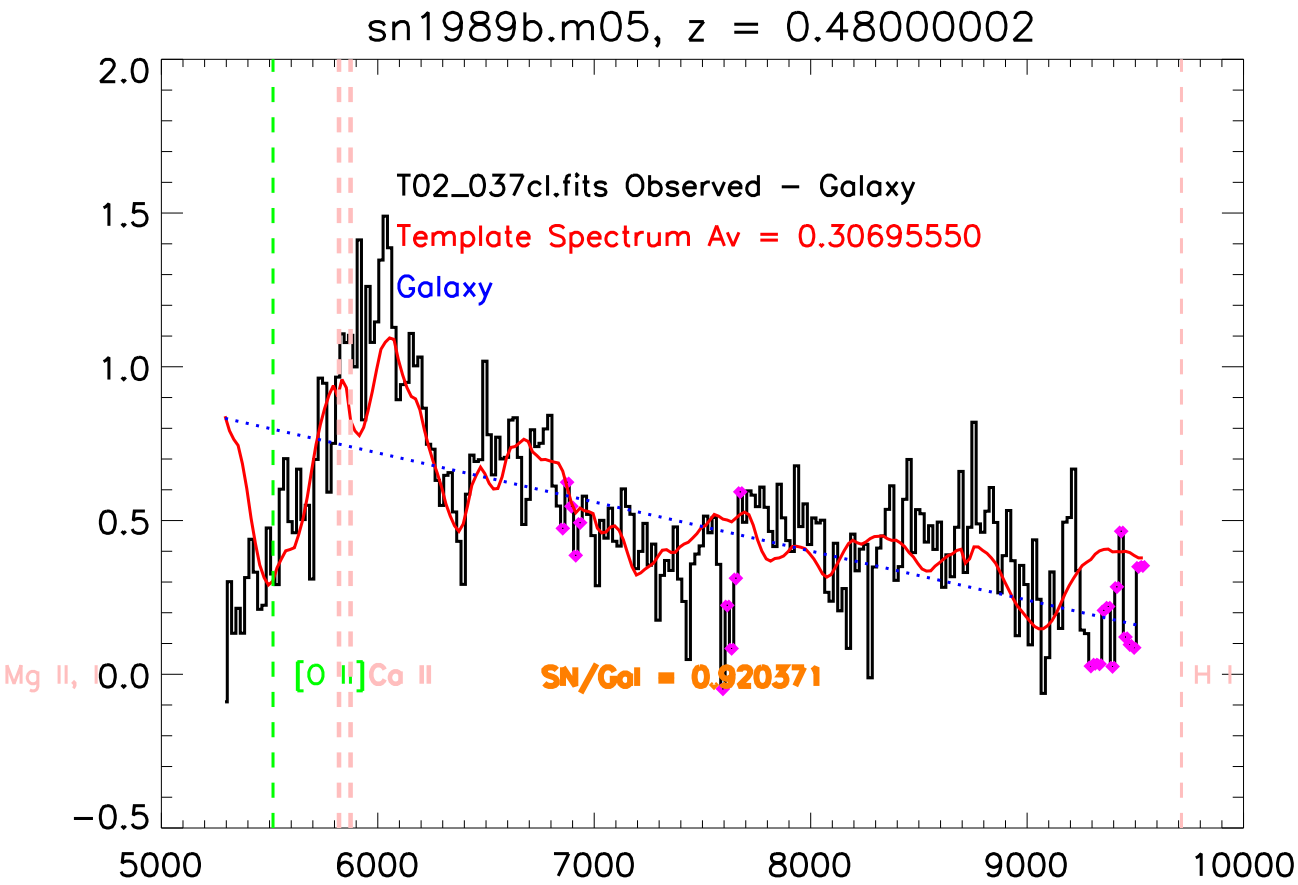

94lapr10_mmt, z = 0.50999999
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −3.6788586
Galaxy
Mg II, I
[O II]
Ca II
SN/GoI = 0.356300
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

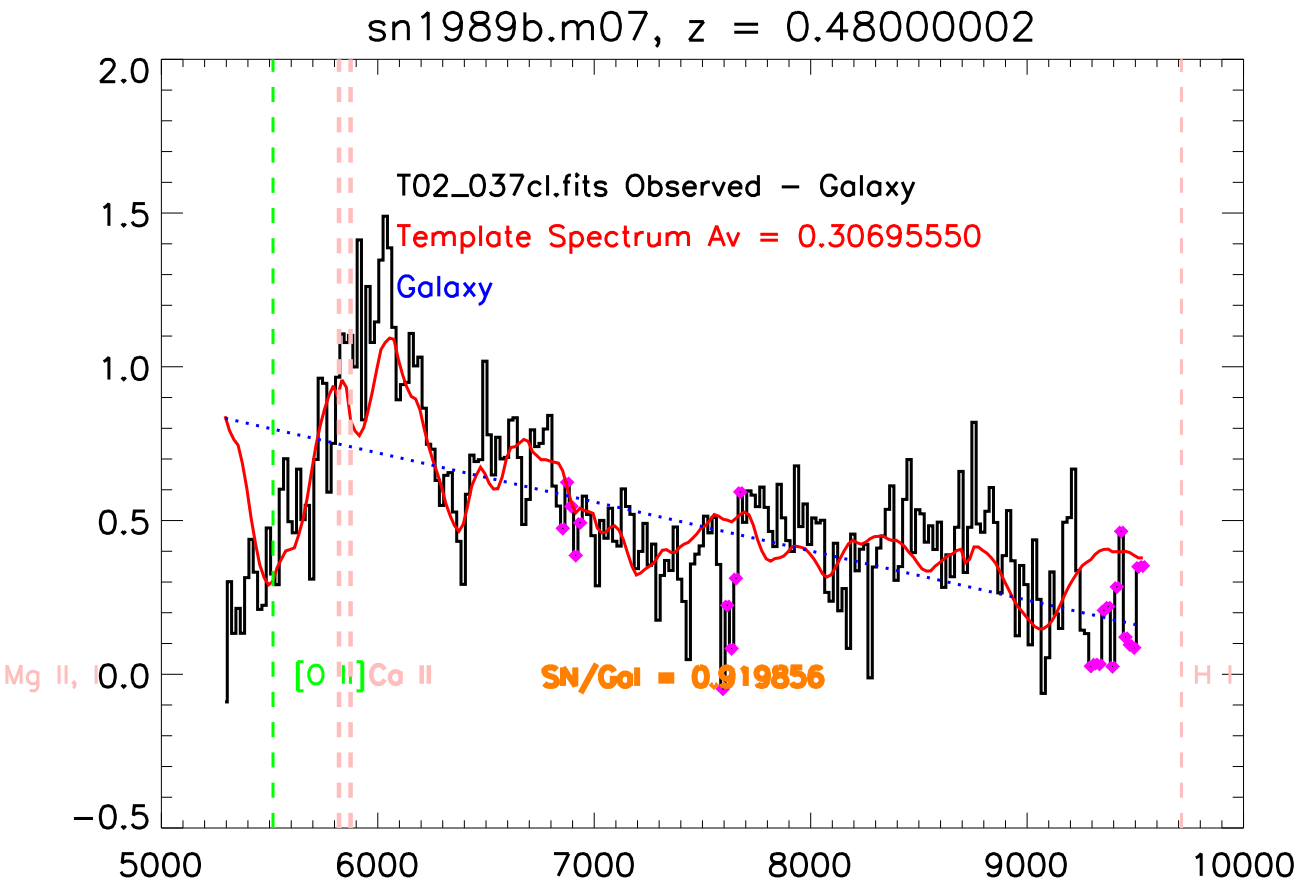

sn00cx+02, z = 0.49000001
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.91471433
Galaxy
SN/Gal = 2.88616
[O II]
Ca II
2.5
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

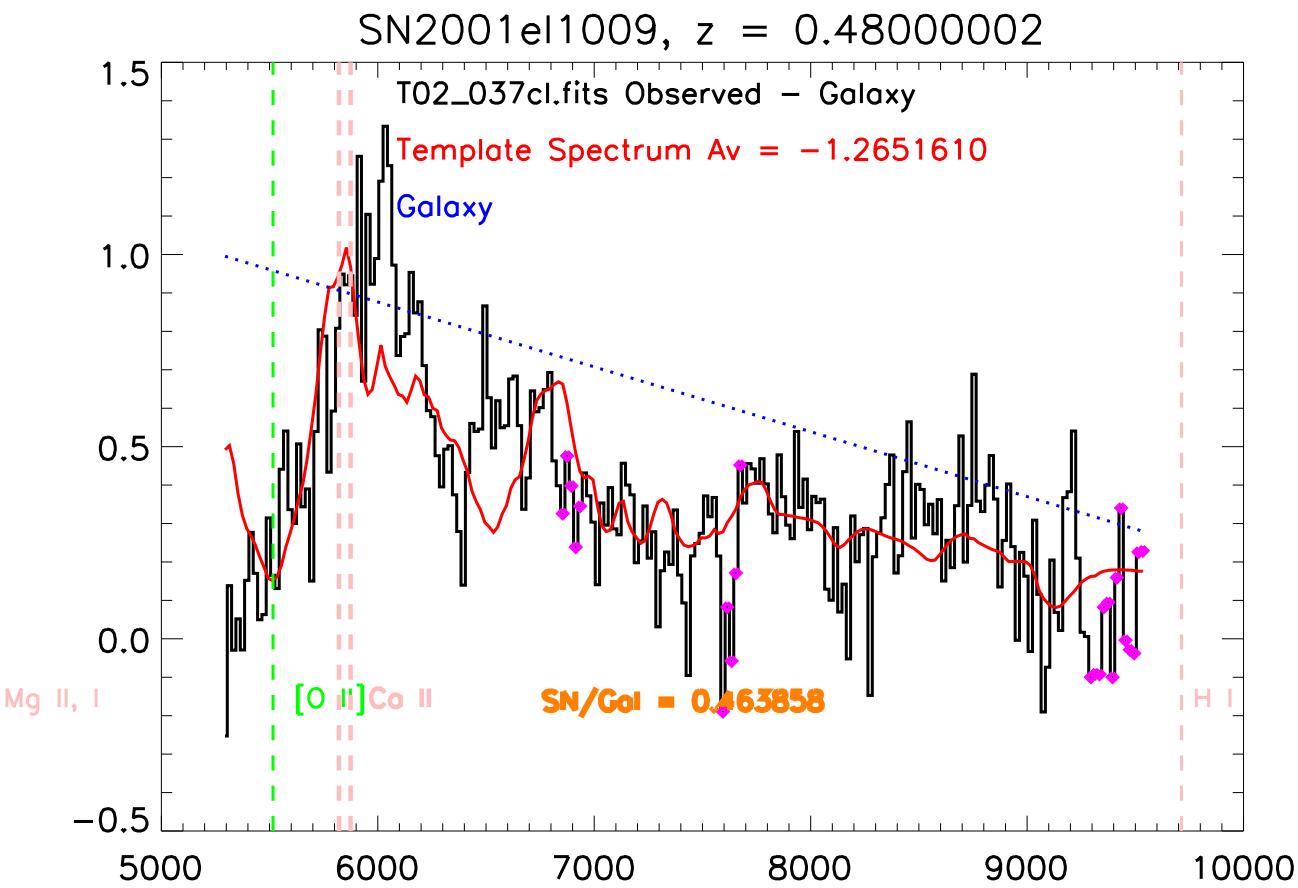

sn1994d.p02, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.19419902
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 1.51343
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

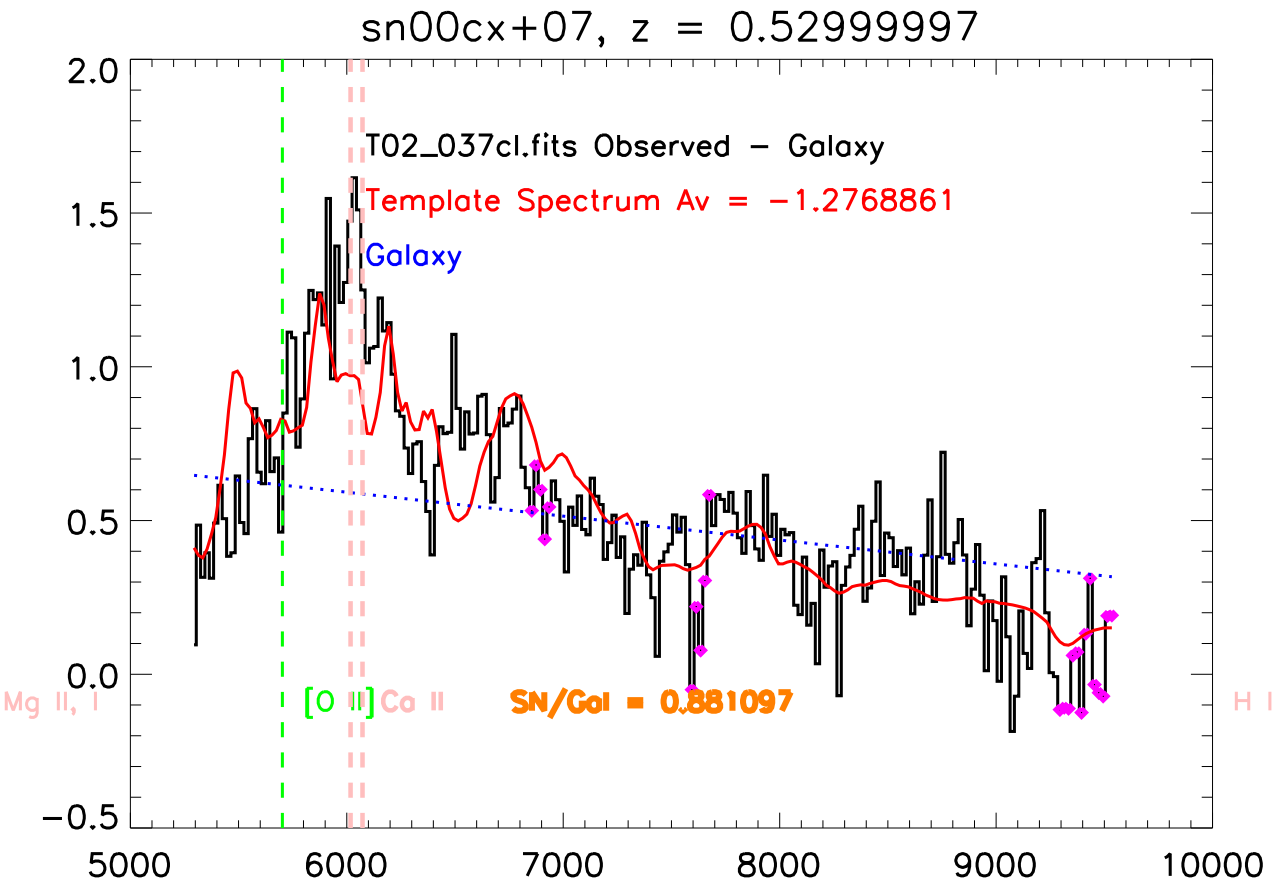

sn1992a.m05, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.083135514
Galaxy
[O II]
Ca II
SN/Gal = 0.931846
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

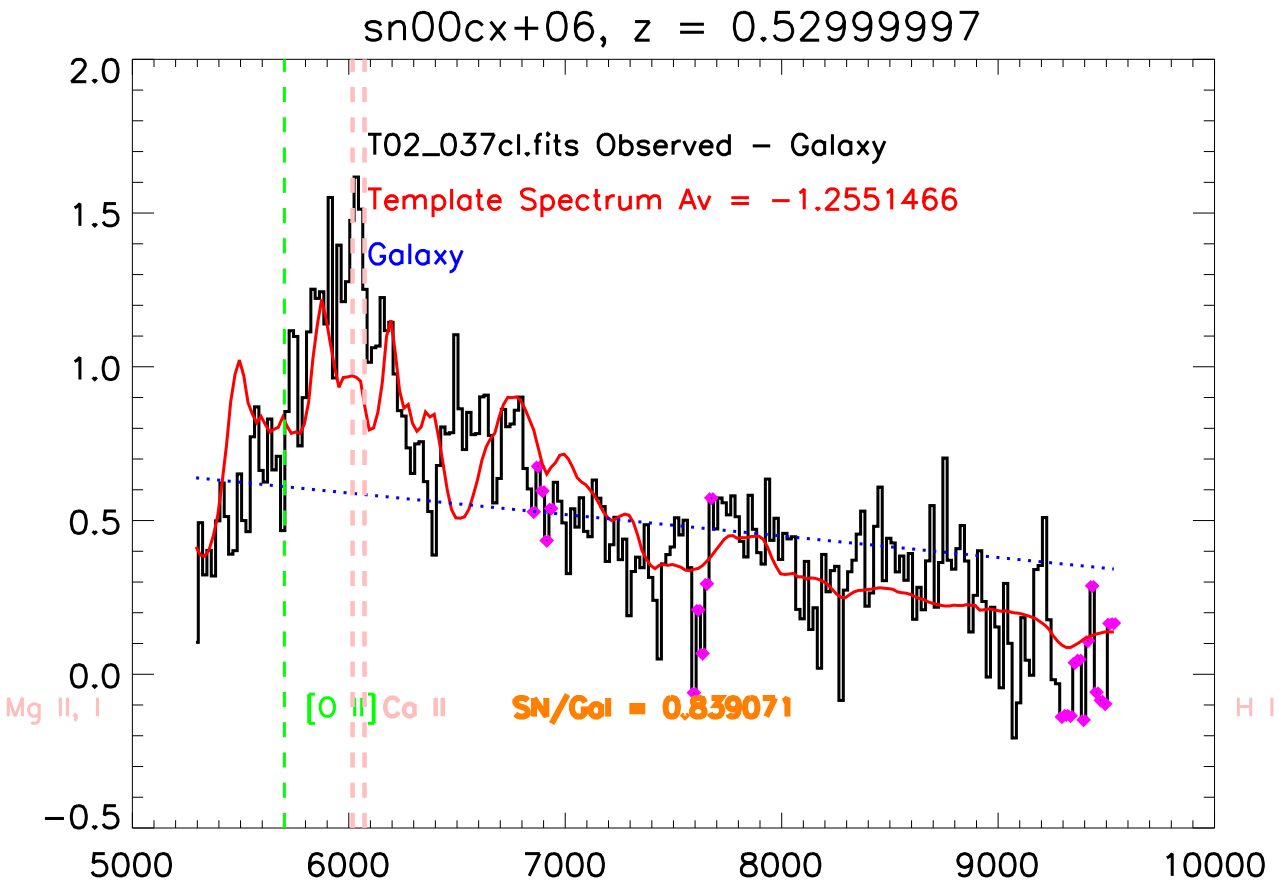

SN2002bo0320, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.73778354
Galaxy
SN/Gal = 0.552530
Mg II, I
[O II]
Ca II
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

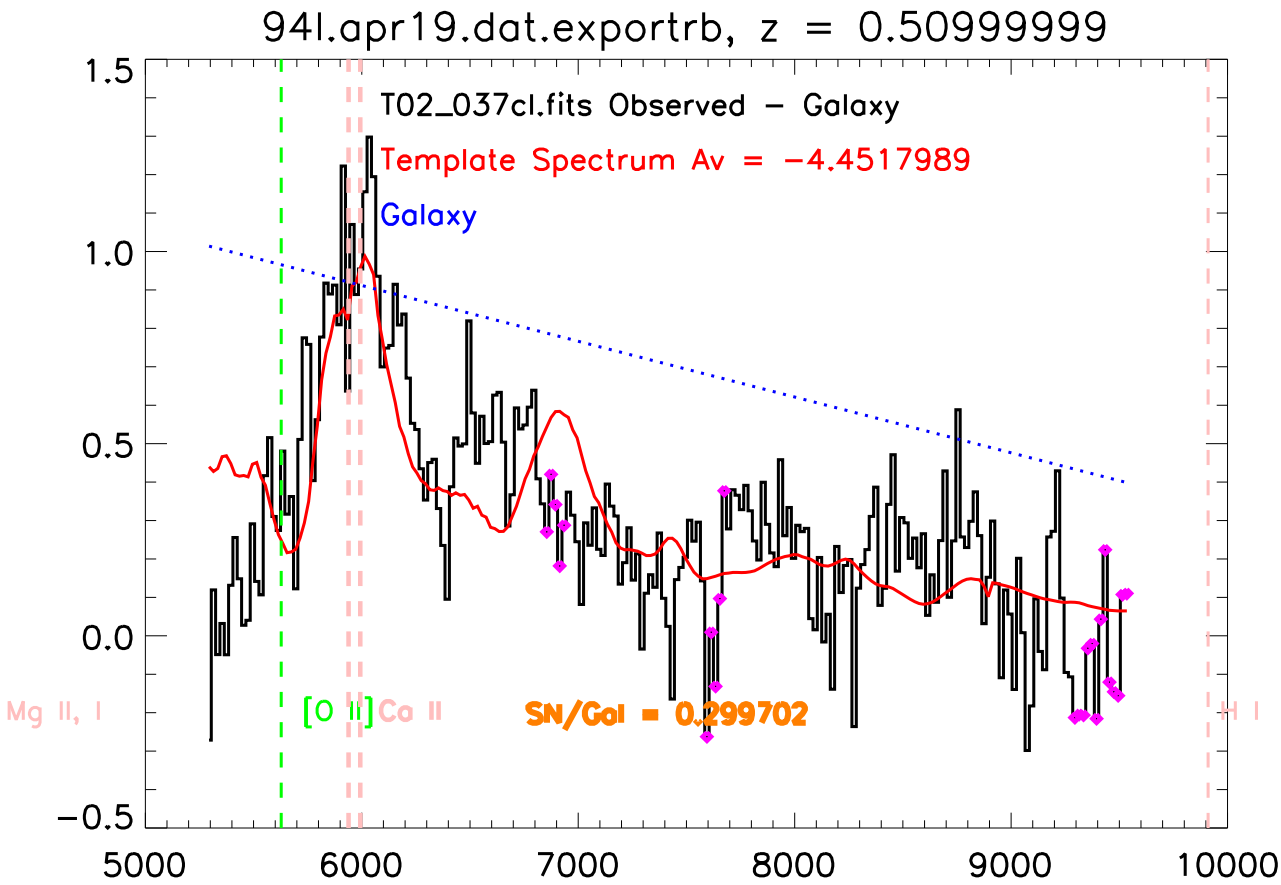

sn1989b.m05, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = 0.30695550
Galaxy
SN/Gal = 0.920371
[O II]
Ca II
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

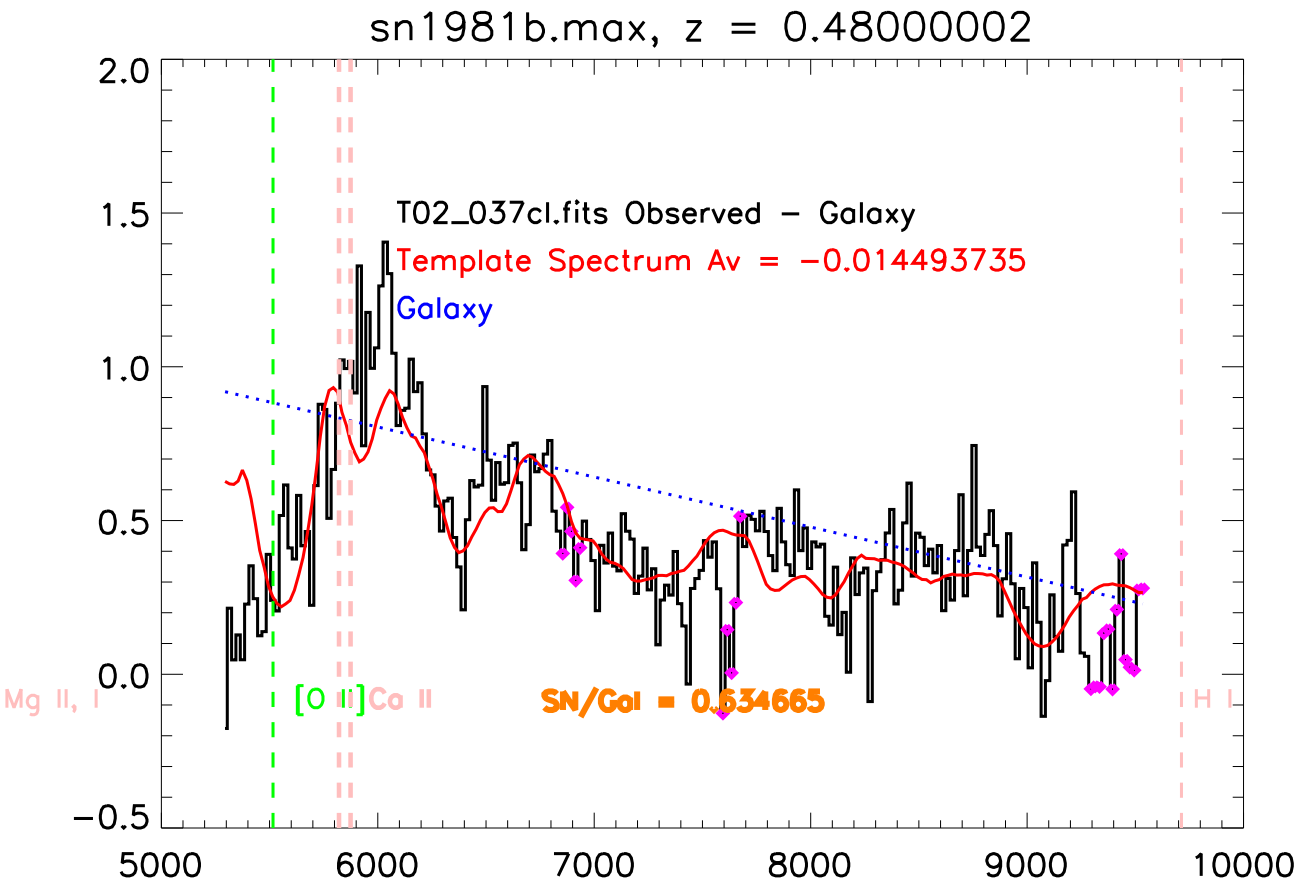

sn1989b.m07, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = 0.30695550
Galaxy
[O II]
Ca II
SN/Gal = 0.919856
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

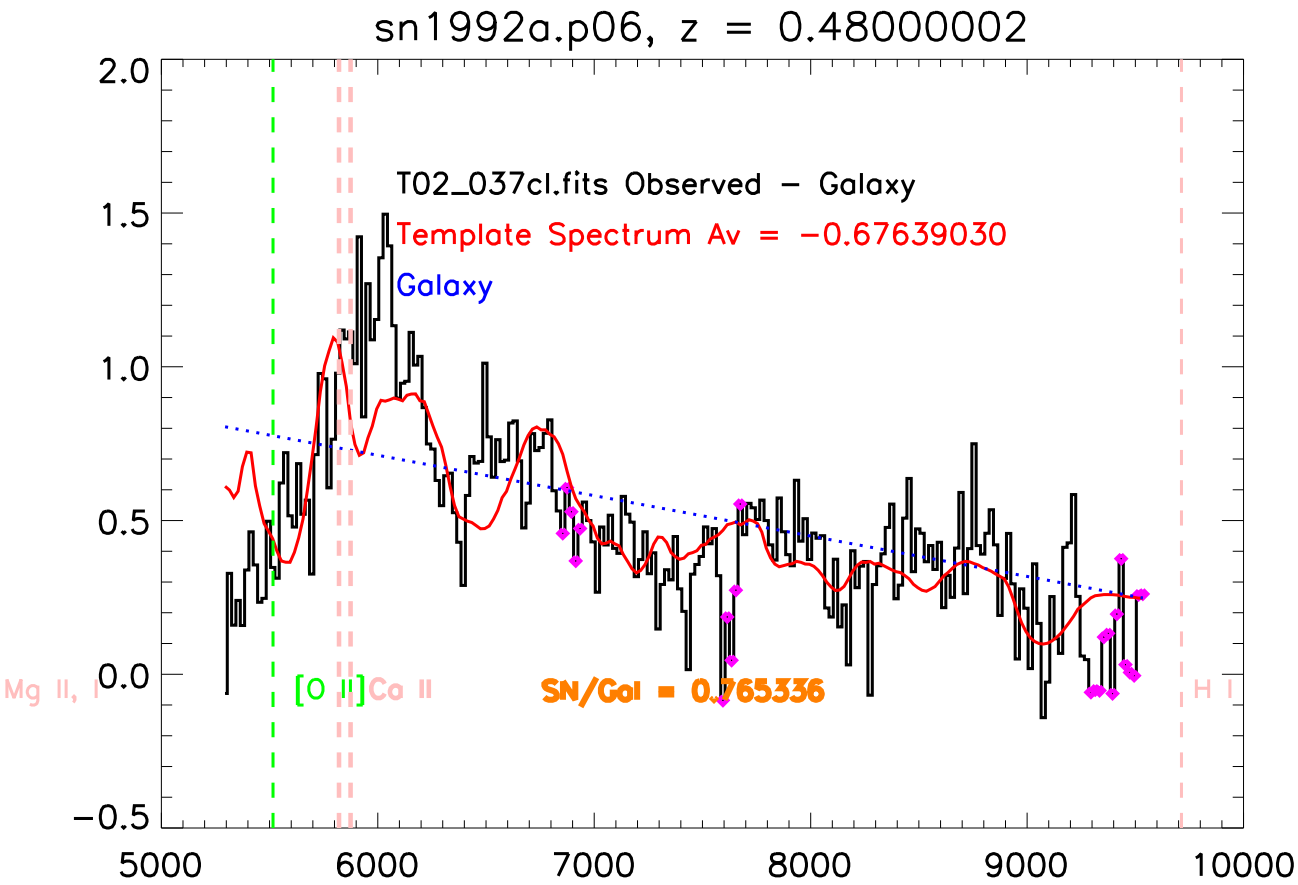

SN2001el1009, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −1.2651610
Galaxy
SN/Gal = 0.463858
Mg II, I
[O II]
Ca II
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

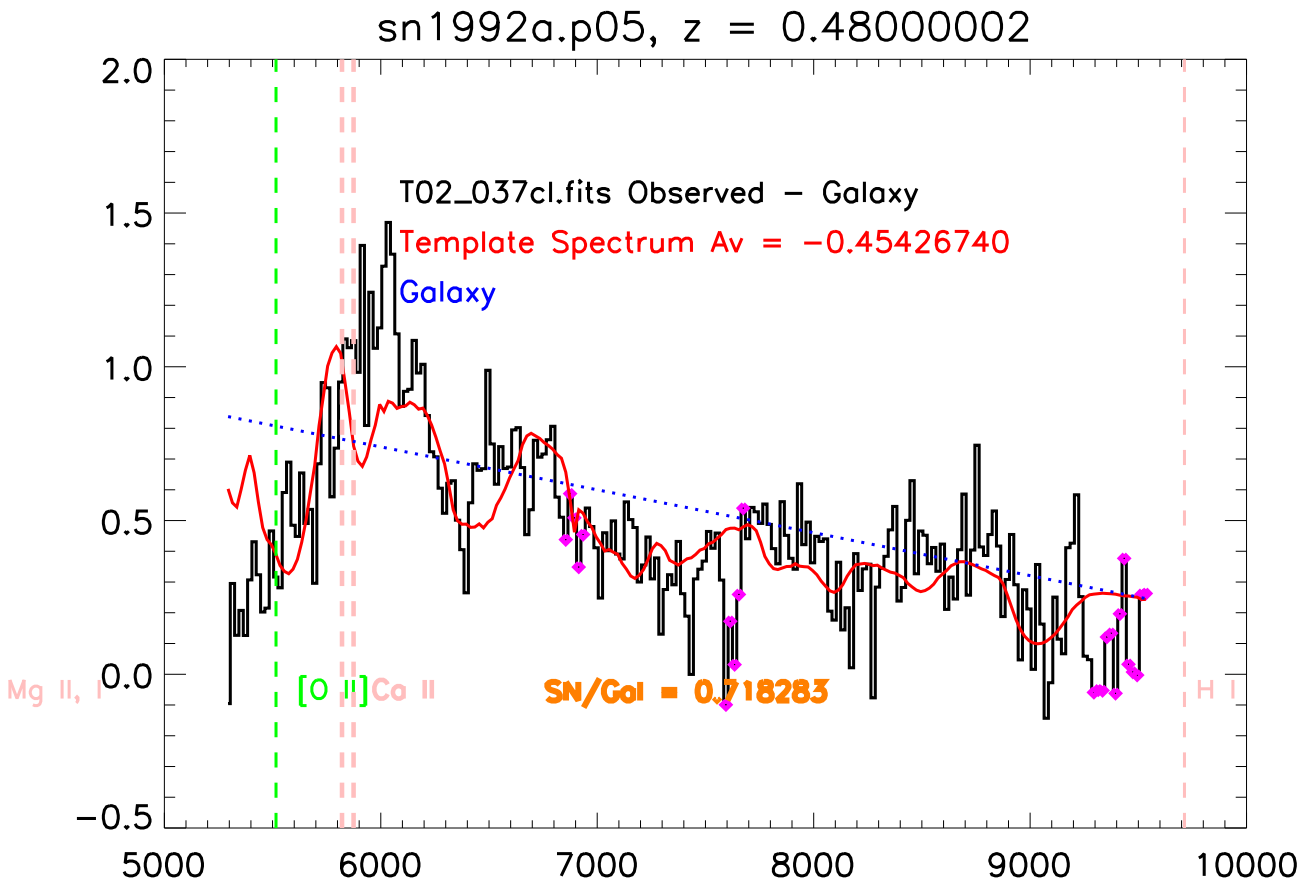

sn00cx+07, z = 0.52999997
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −1.2768861
Galaxy
SN/Gal = 0.881097
Mg II, I
[O II]
Ca II
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

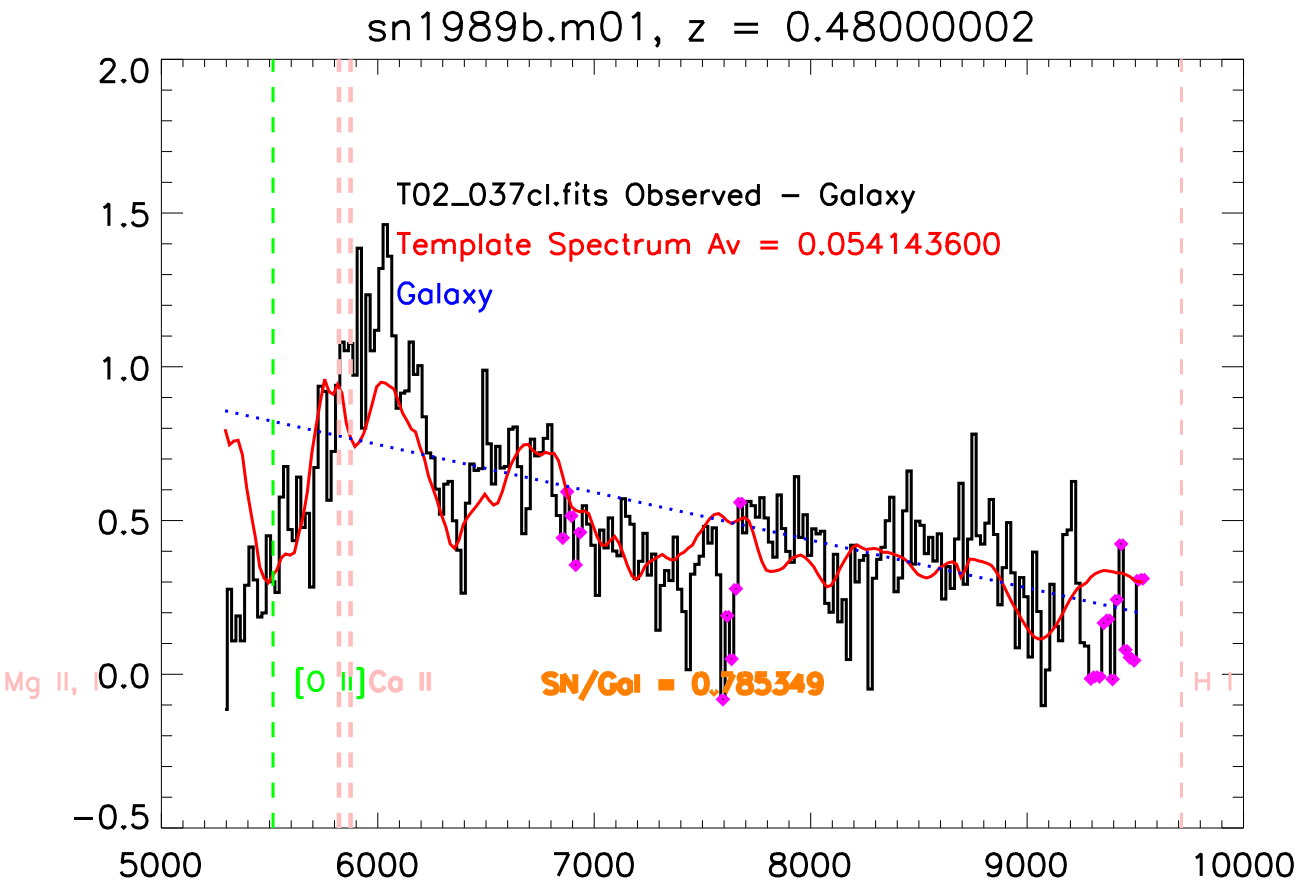

sn00cx+06, z = 0.52999997
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −1.2551466
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.839071
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

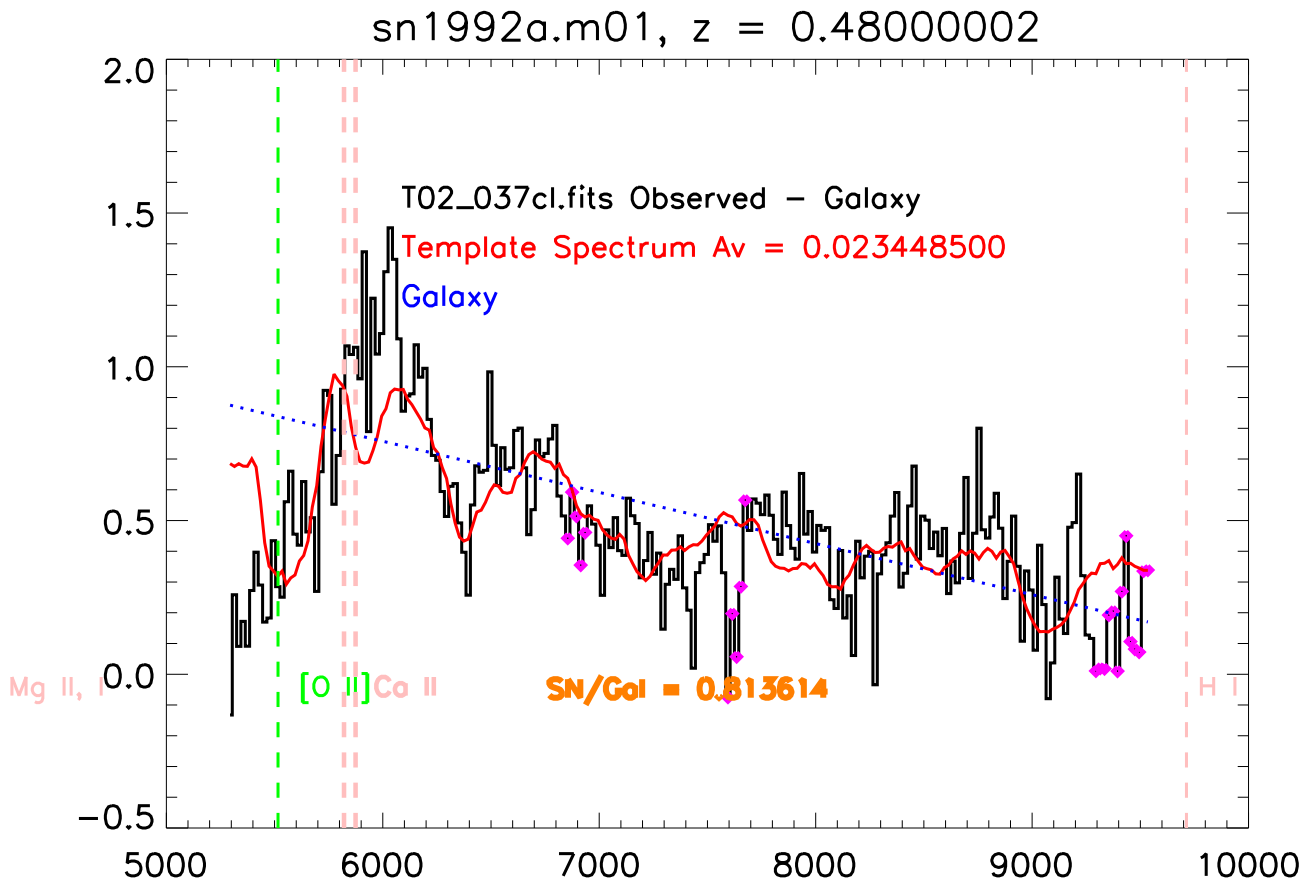

94I.apr19.dat.exportrb, z = 0.50999999
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −4.4517989
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.299702
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

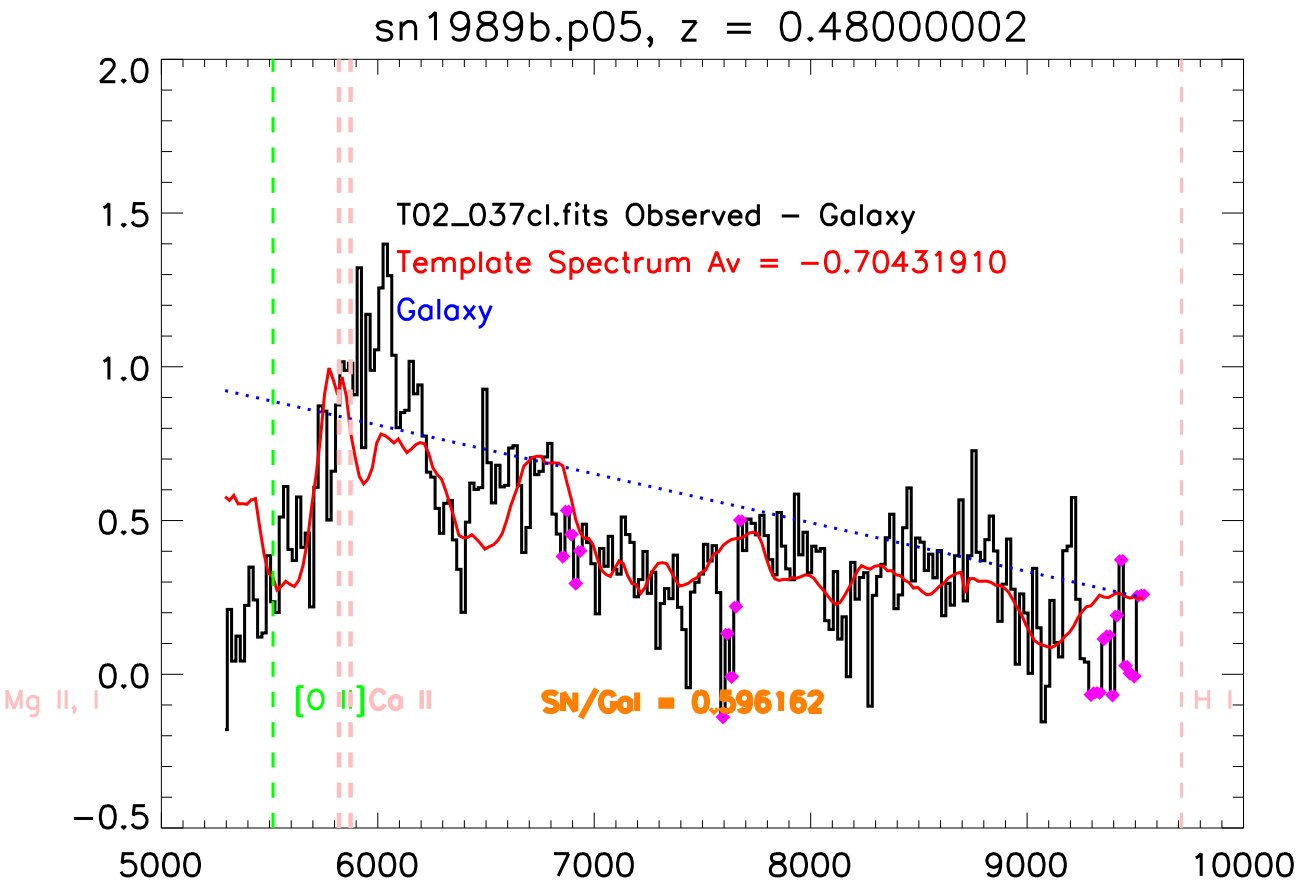

sn1981b.max, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.014493735
Galaxy
SN/Gal = 0.634665
Mg II, I
[O II]
Ca II
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

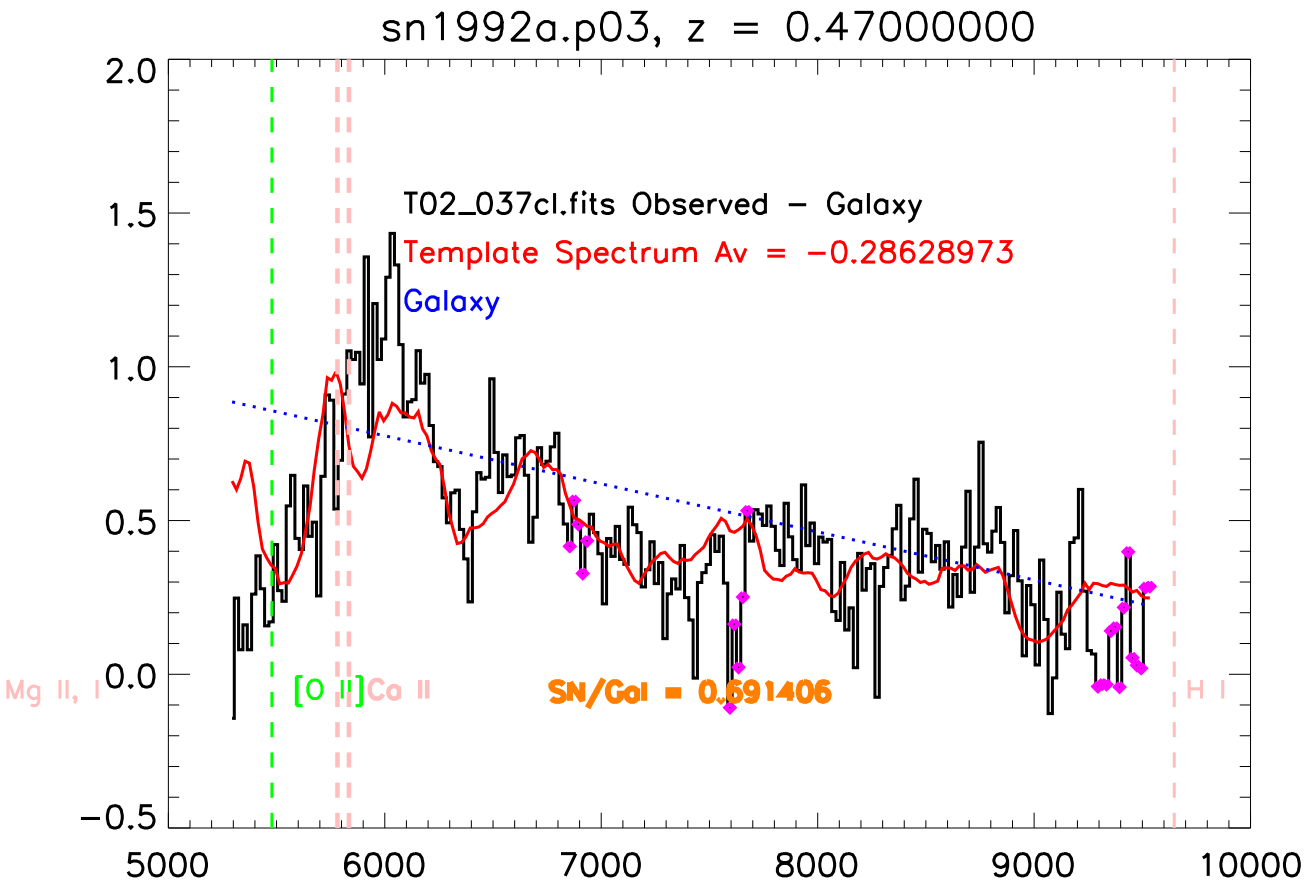

sn1992a.p06, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.67639030
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.765336
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

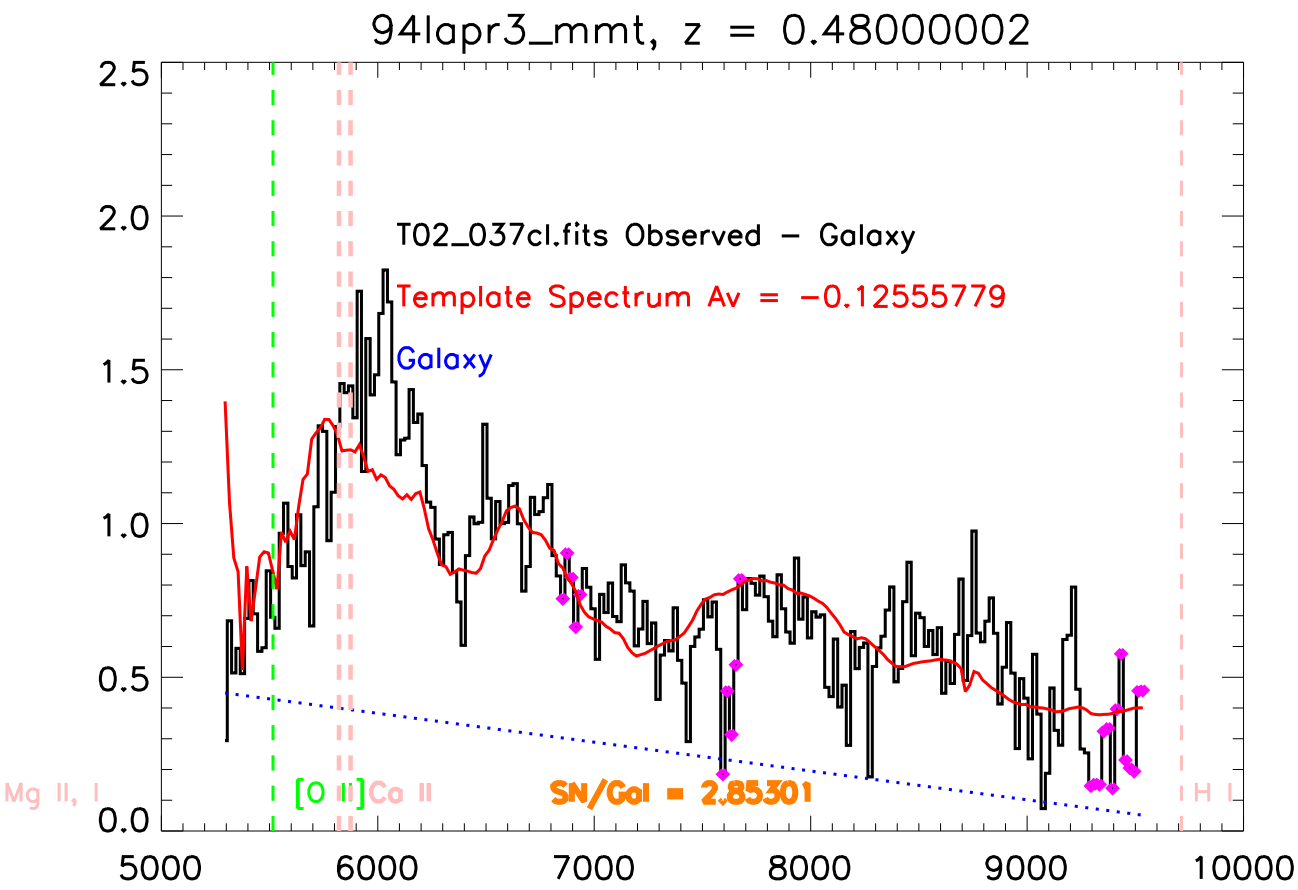

sn1992a.p05, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.45426740
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.718283
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

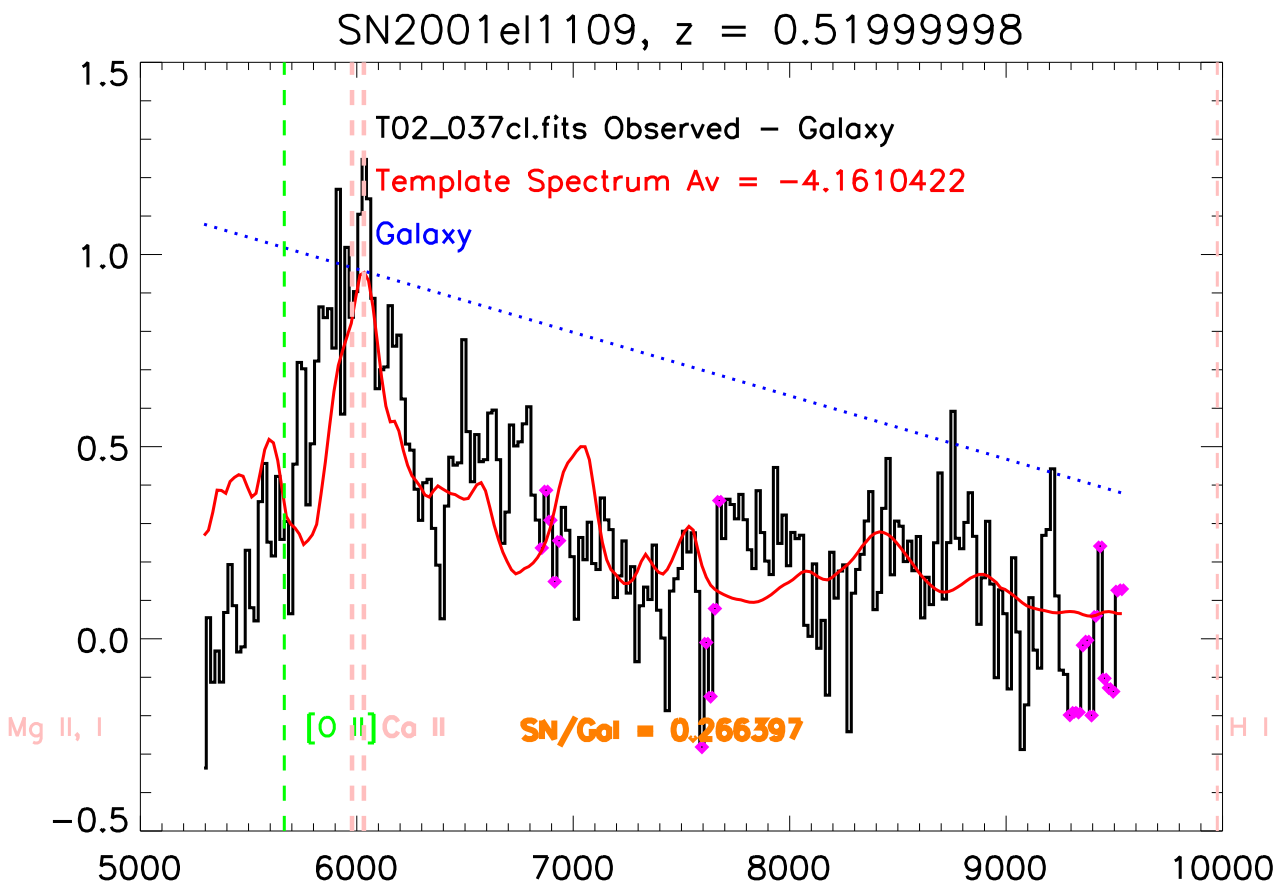

sn1989b.m01, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = 0.054143600
Galaxy
[O II]
Ca II
SN/Gal = 0.785349
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

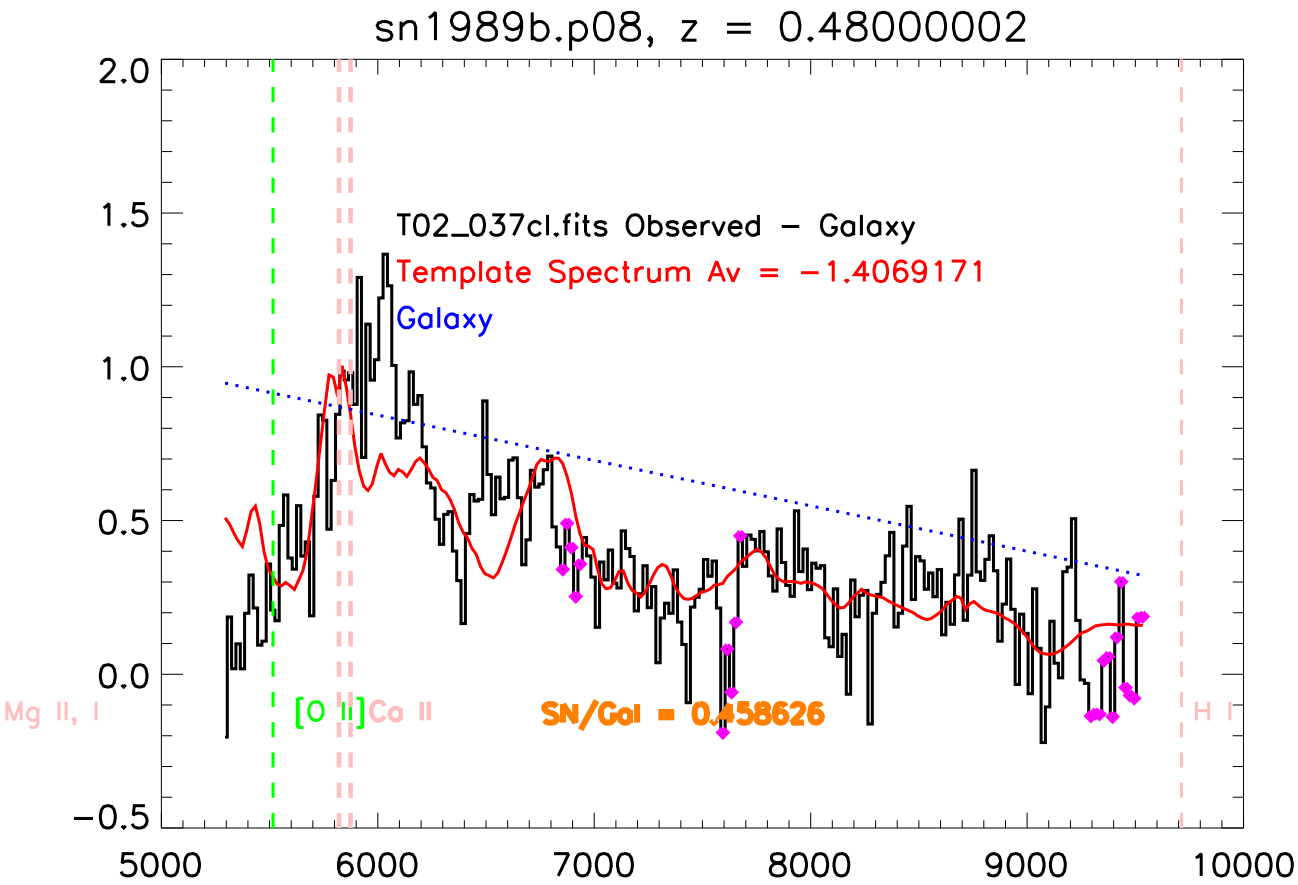

sn1992a.m01, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = 0.023448500
Galaxy
[O II]
Ca II
SN/Gal = 0.813614
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

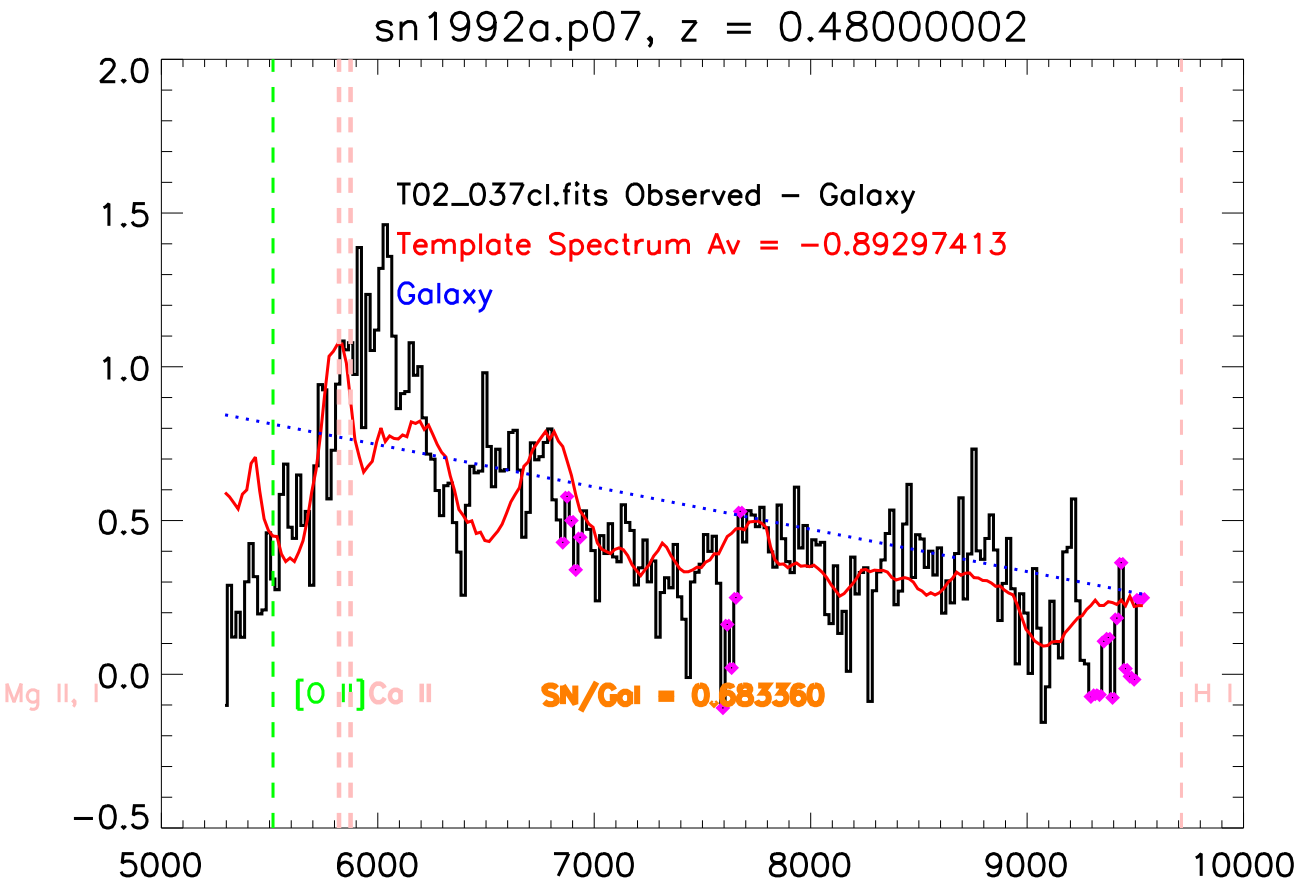

sn1989b.p05, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.70431910
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.696162
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

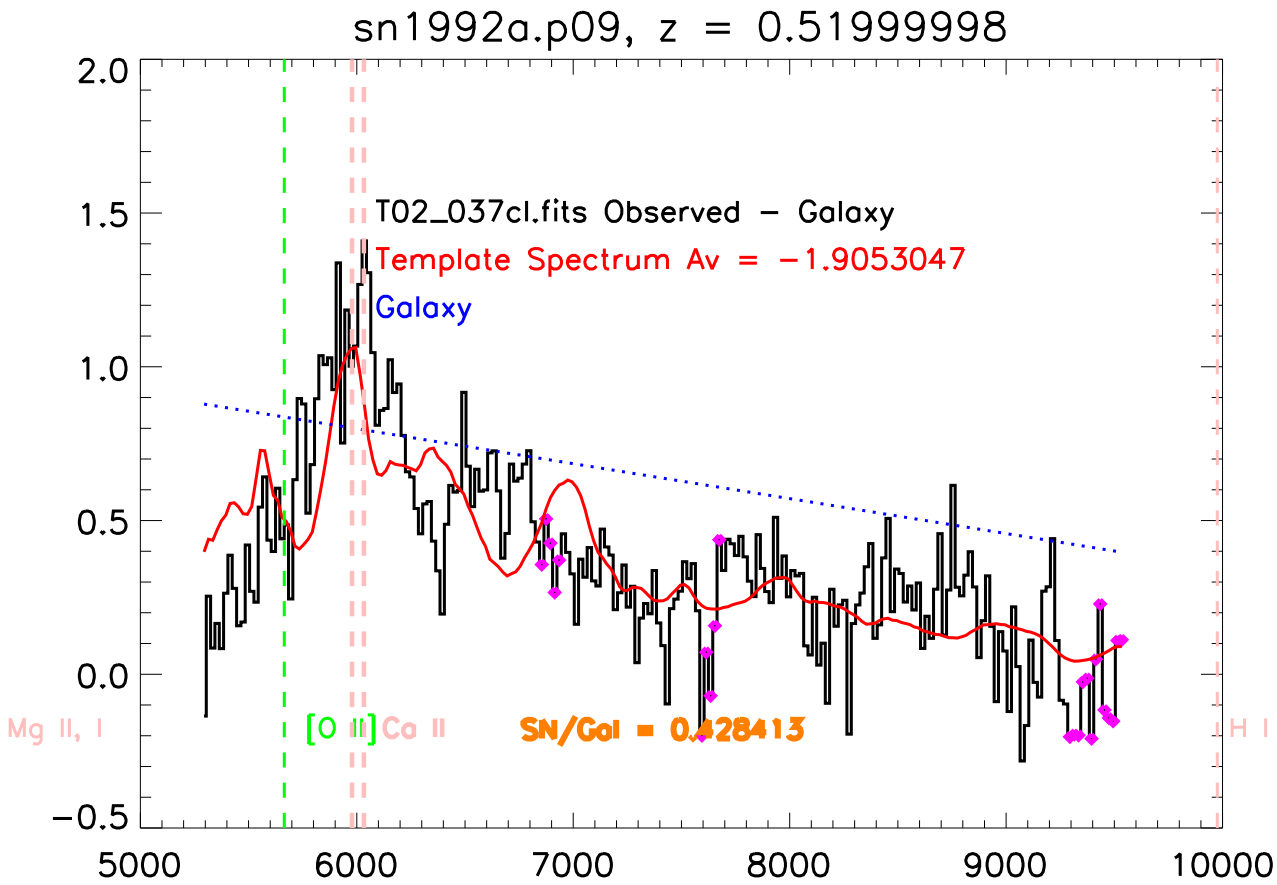

sn1992a.p03, z = 0.47000000
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.28628973
Galaxy
SN/Gal = 0.691406
Mg II, I
[O II]
Ca II
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

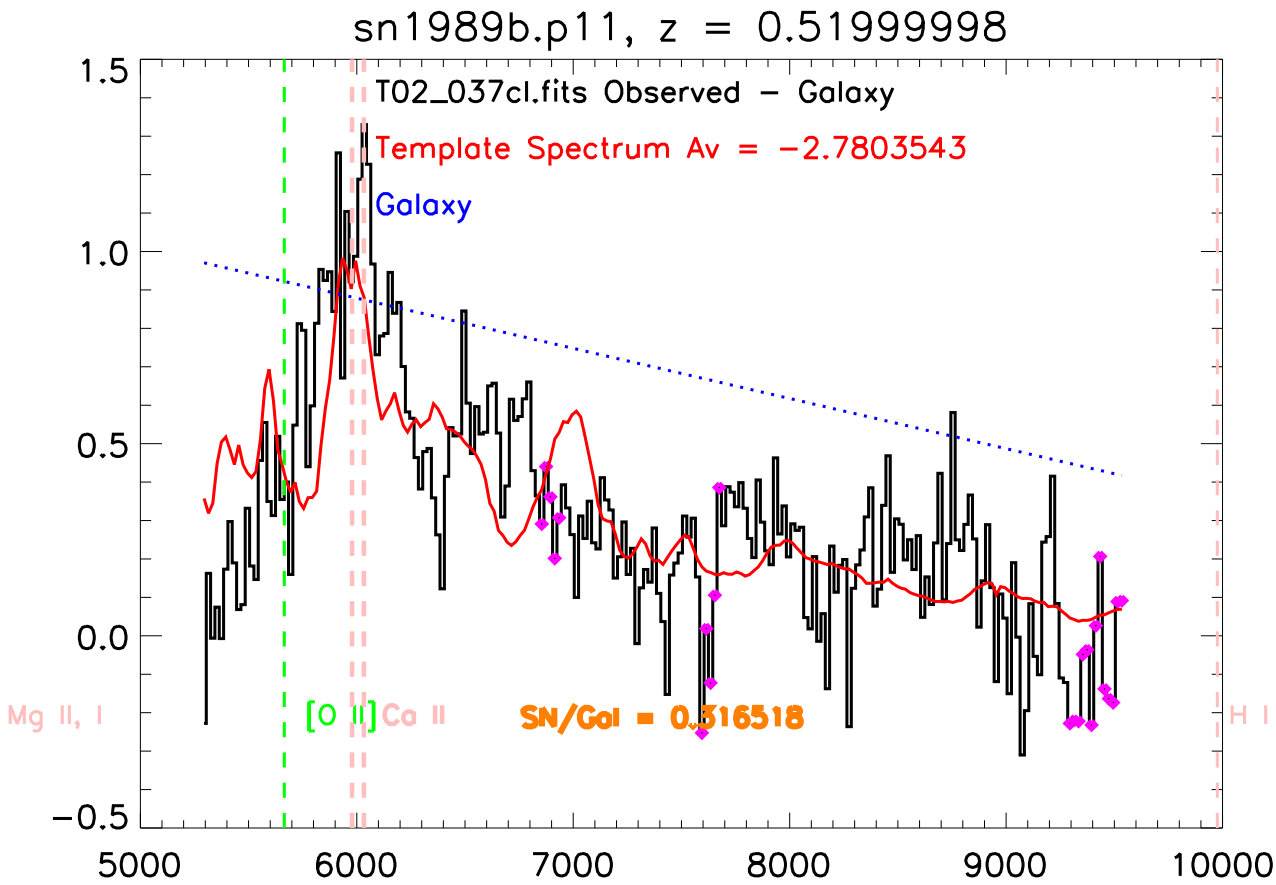

94lapr3_mmt, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.12555779
Galaxy
SN/Gal = 2.85301
Mg II, I
[O II]
Ca II
H I
2.5
2.0
1.5
1.0
0.5
0.0
5000
6000
7000
8000
9000
10000

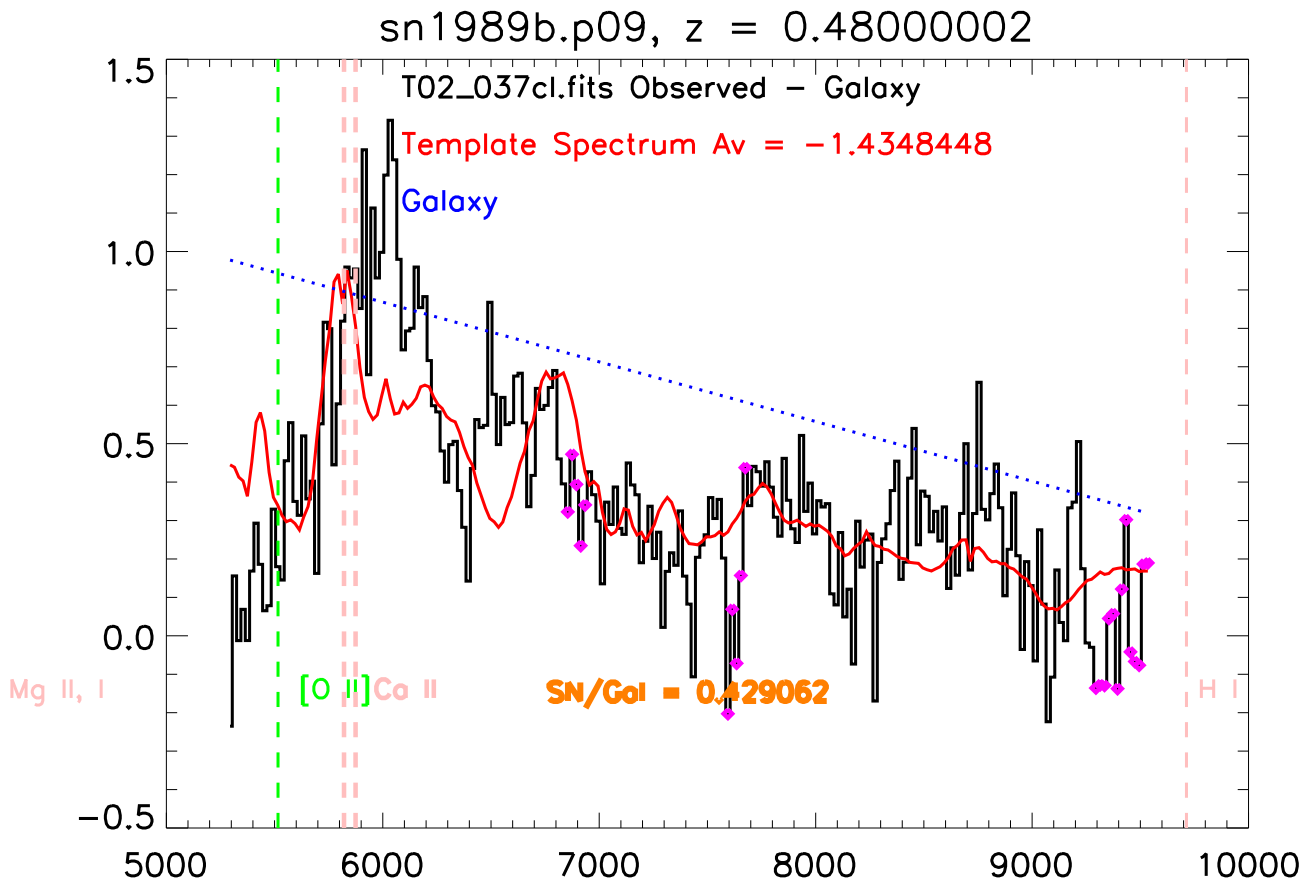

SN2001el1109, z = 0.51999998
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −4.1610422
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.266397
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

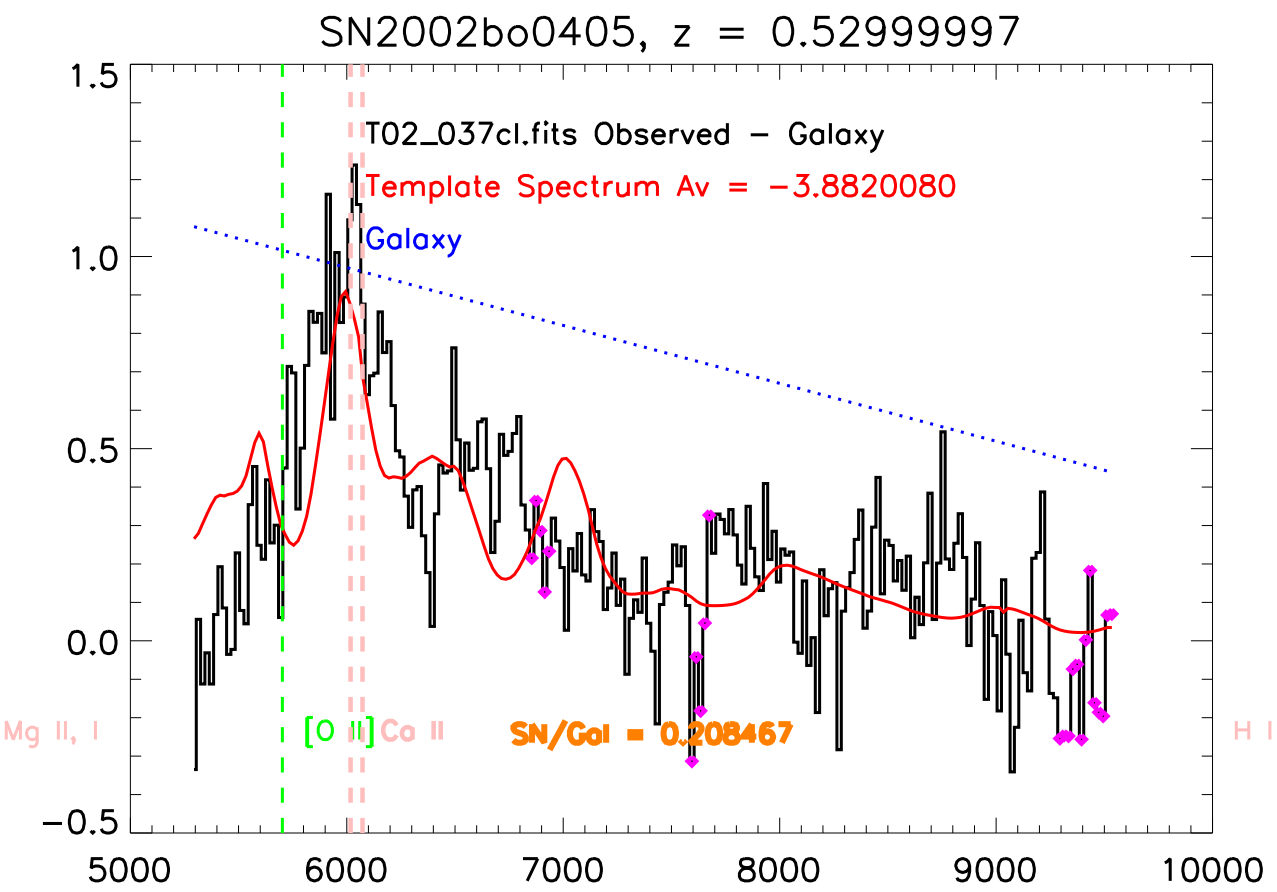

sn1989b.p08, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −1.4069171
Galaxy
SN/Gal = 0.458626
Mg II, I
[O II]
Ca II
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

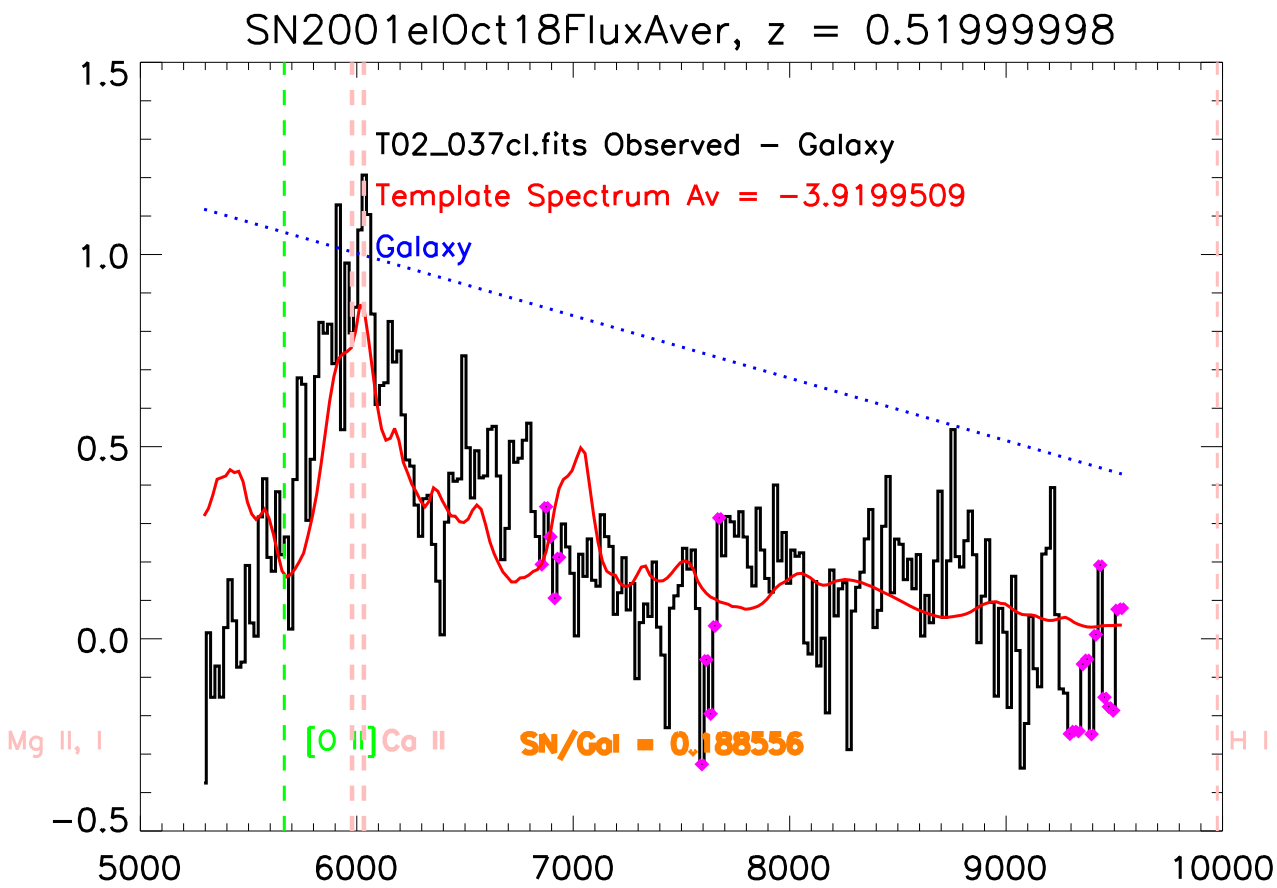

sn1992a.p07, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.89297413
Galaxy
SN/Gal = 0.683360
Mg II, I
[O II]
Ca II
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

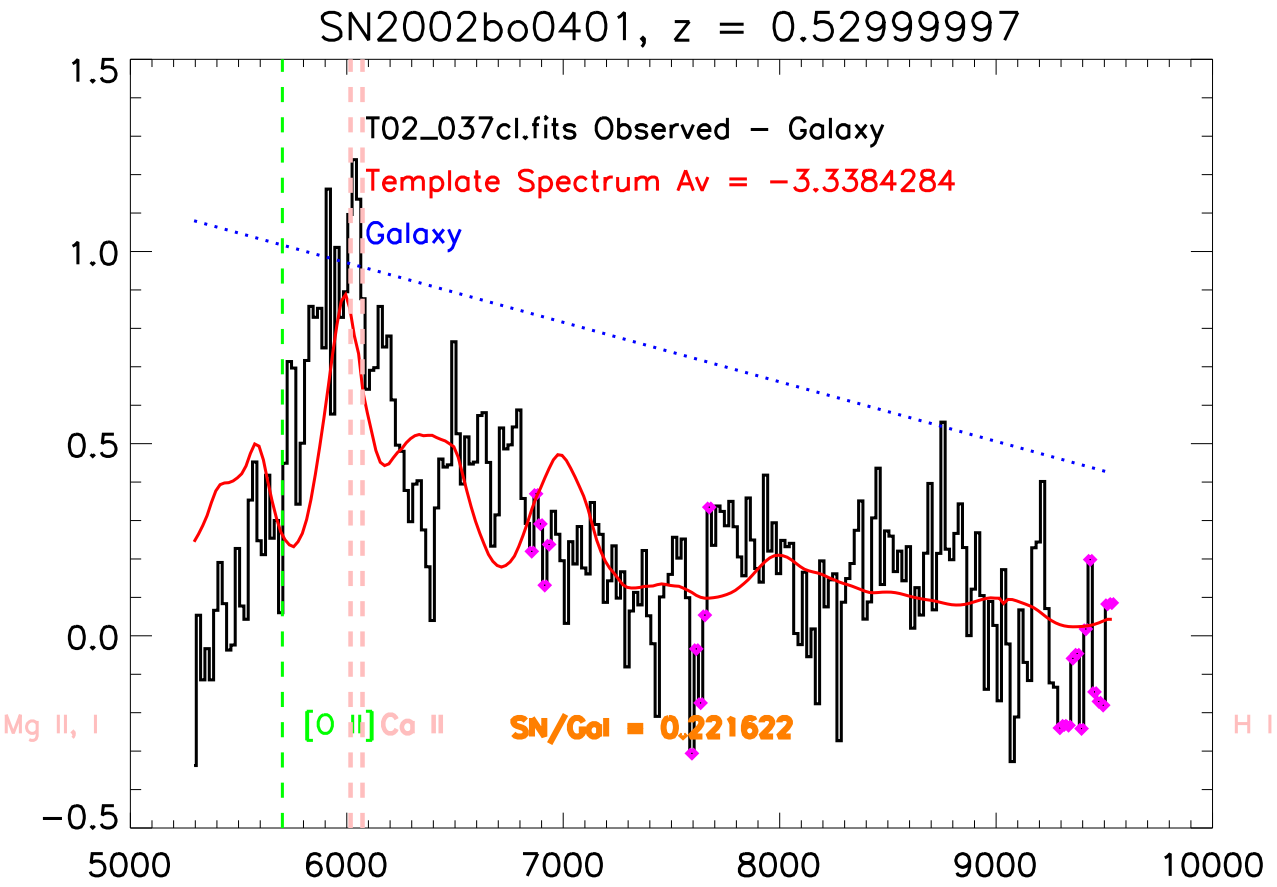

sn1992a.p09, z = 0.51999998
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −1.9053047
Galaxy
SN/Gal = 0.428413
Mg II, I
[O II]
Ca II
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

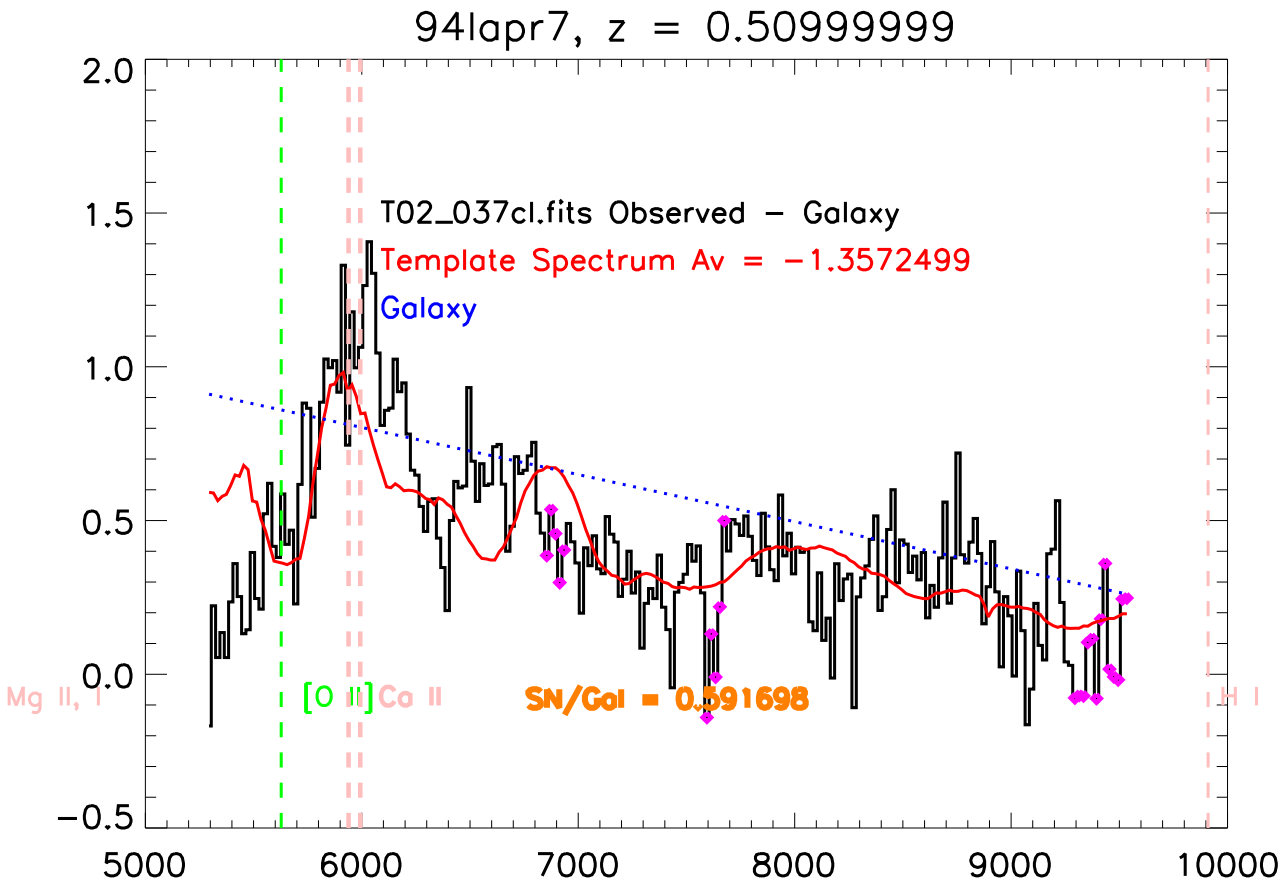

sn1989b.p11, z = 0.51999998
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −2.7803543
Galaxy
SN/Gal = 0.316518
Mg II, I
[O II]
Ca II
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

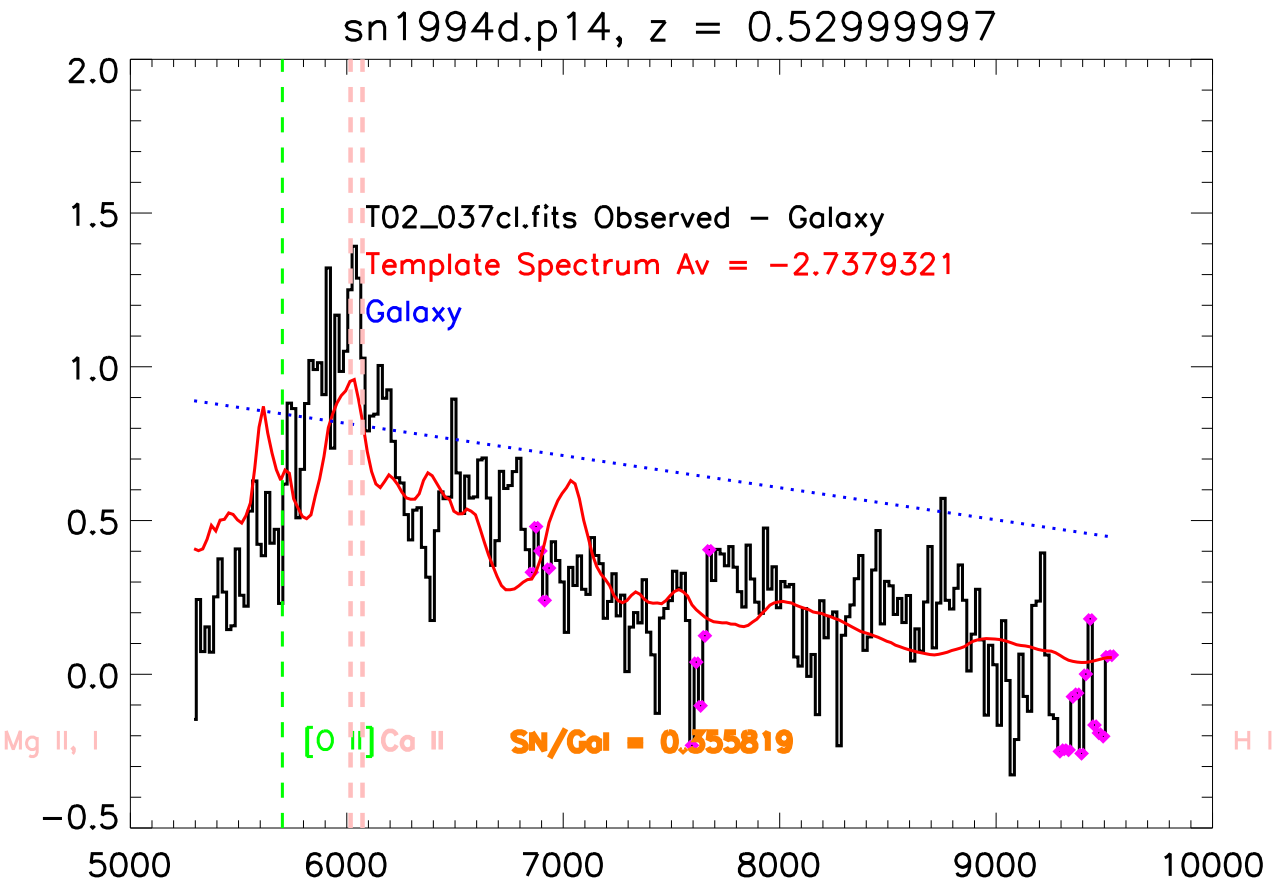

sn1989b.p09, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −1.4348448
Galaxy
SN/Gal = 0.429062
Mg II, I
[O II]
Ca II
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

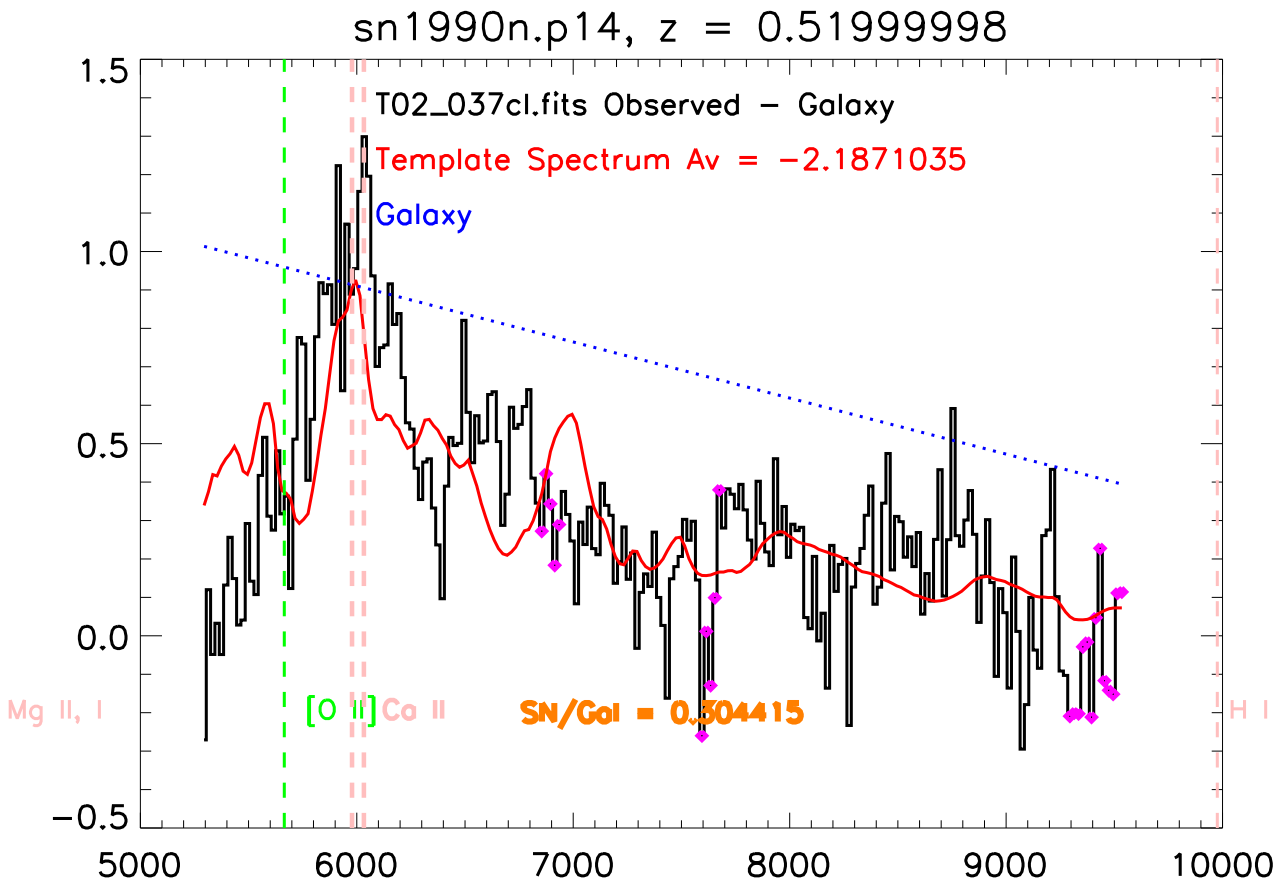

SN2002bo0405, z = 0.52999997
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −3.8820080
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.208467
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

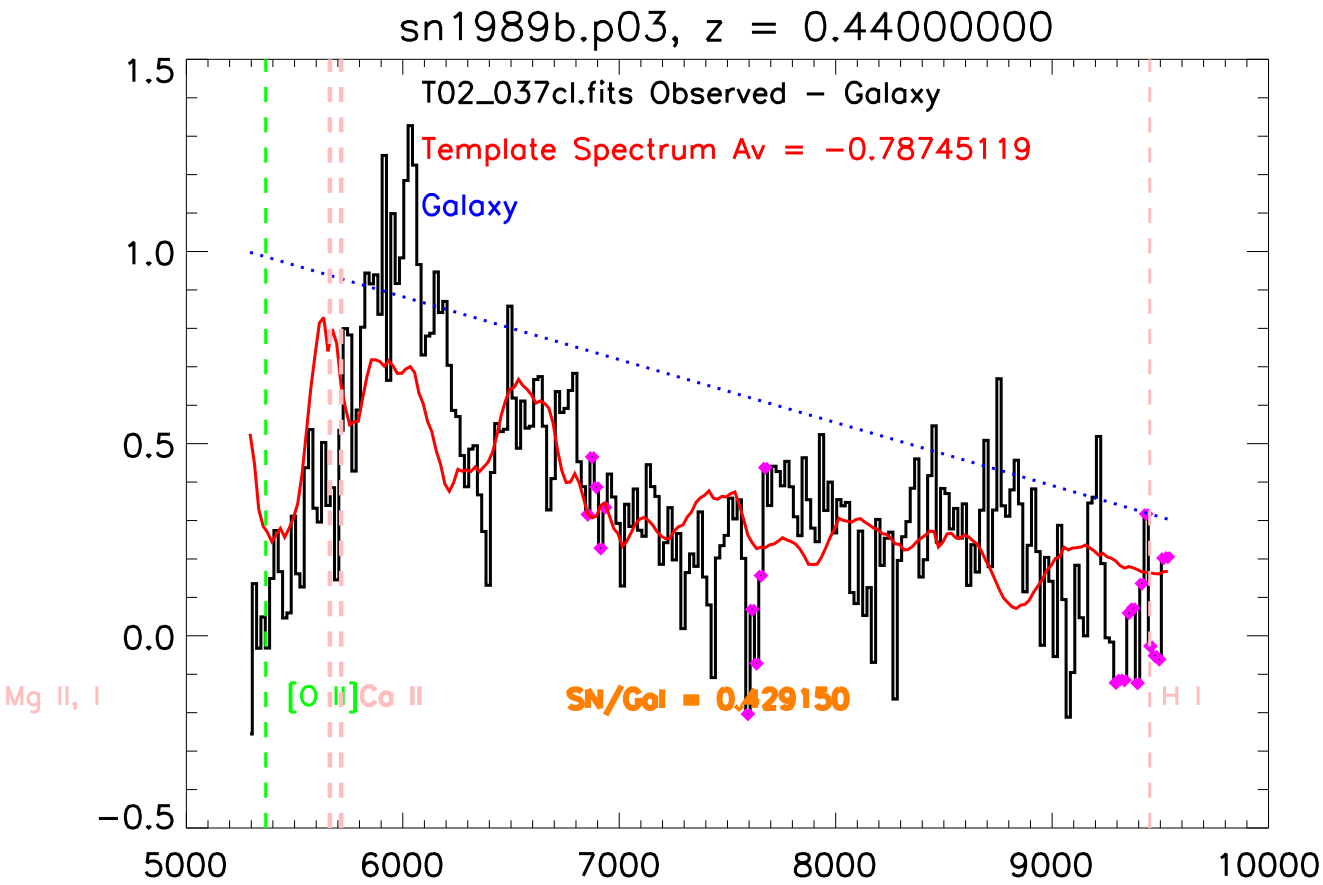

SN2001elOct18FluxAver, z = 0.51999998
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −3.9199509
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.188556
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

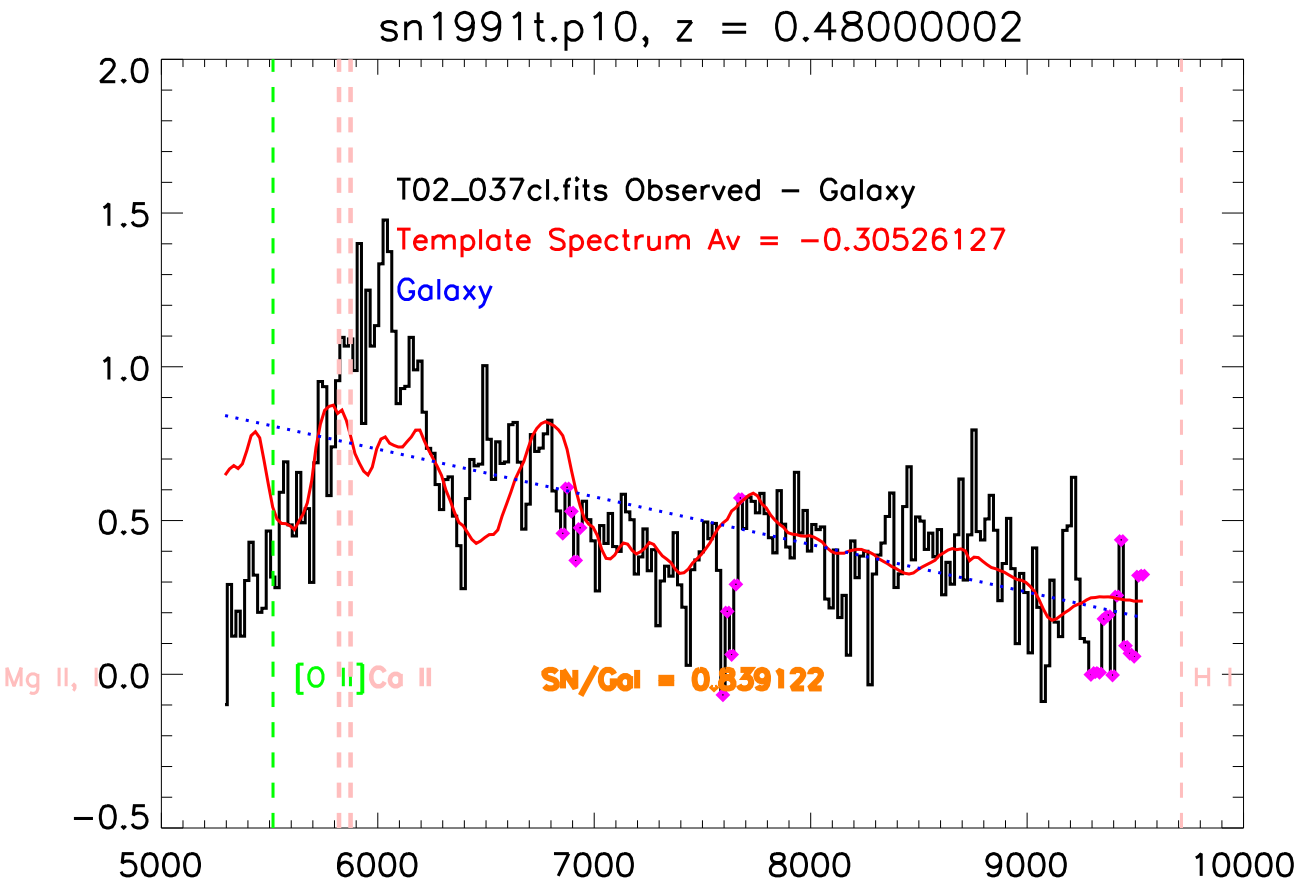

SN2002bo0401, z = 0.52999997
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −3.3384284
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.221622
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

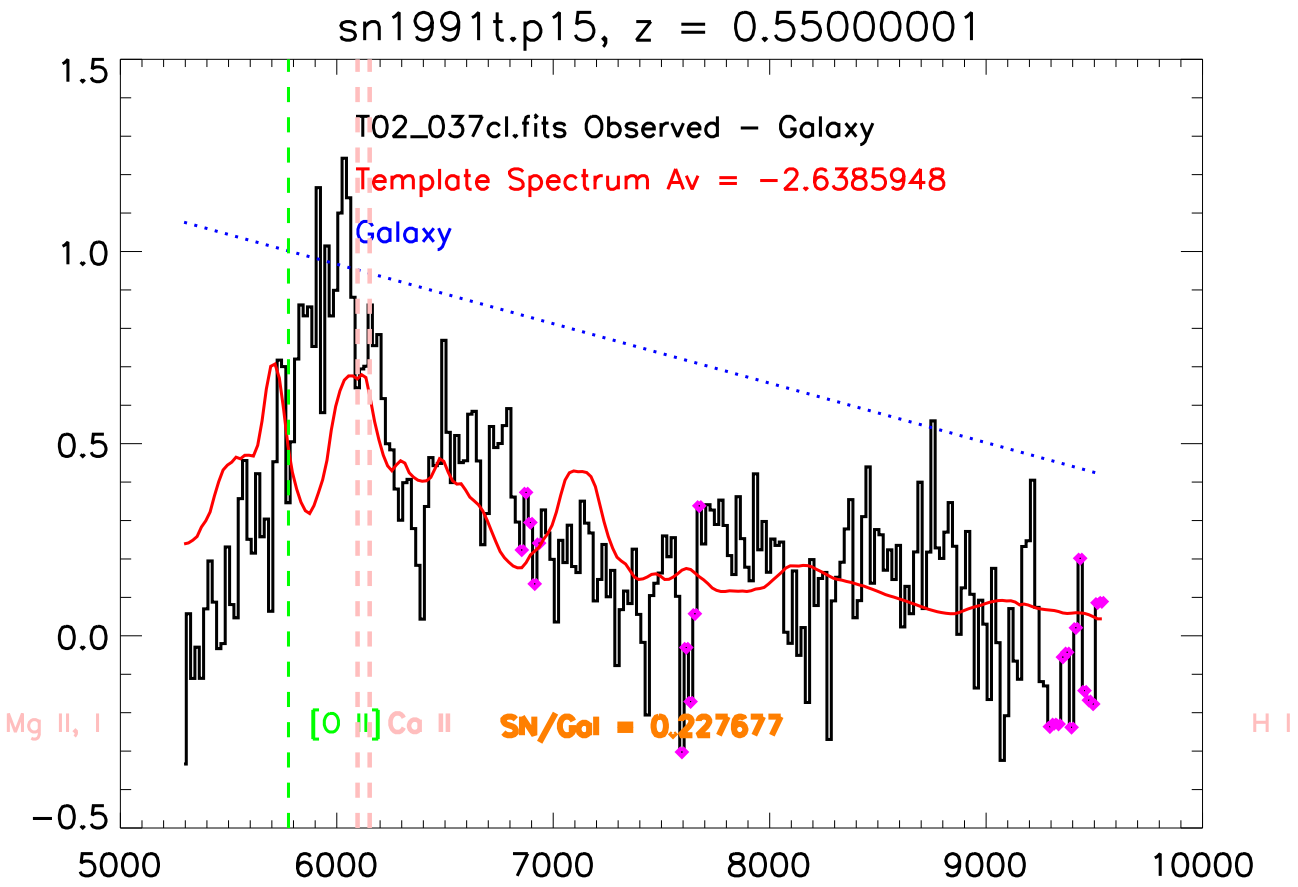

94lapr7, z = 0.50999999
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −1.3572499
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.591698
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000

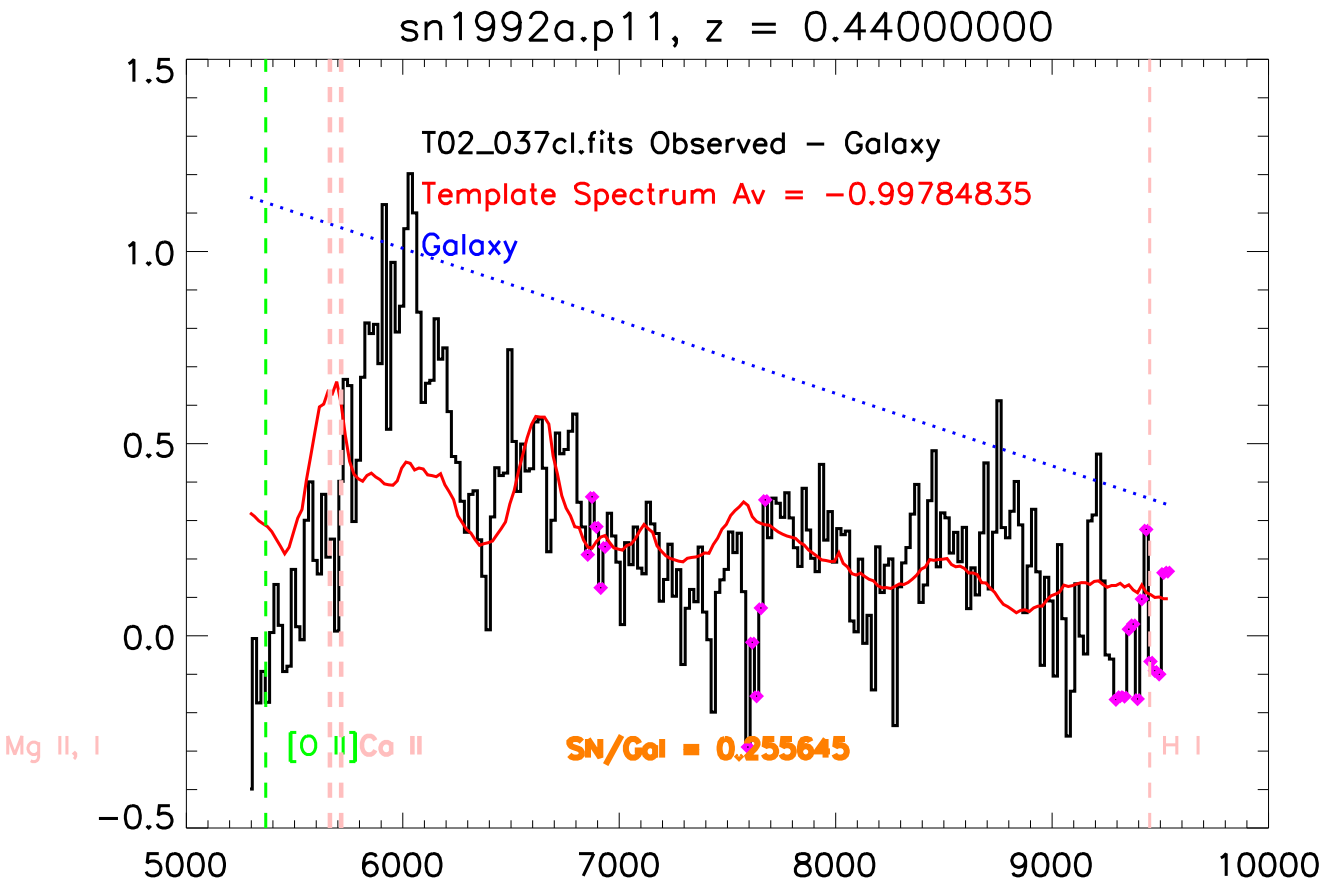

sn1994d.p14, z = 0.52999997
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −2.7379321
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.355819
H I
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000


sn1990n.p14, z = 0.51999998
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −2.1871035
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.304415
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000


sn1989b.p03, z = 0.44000000
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.78745119
Galaxy
SN/Gal = 0.429150
Mg II, I
[O II]
Ca II
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000


sn1991t.p10, z = 0.48000002
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.30526127
Galaxy
SN/Gal = 0.839122
[O II]
Ca II
2.0
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000


sn1991t.p15, z = 0.55000001
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −2.6385948
Galaxy
SN/Gal = 0.227677
Mg II, I
[O II]
Ca II
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000


sn1992a.p11, z = 0.44000000
T02_037cl.fits Observed − Galaxy
Template Spectrum Av = −0.99784835
Galaxy
Mg II, I
[O II]
Ca II
SN/Gal = 0.255645
H I
1.5
1.0
0.5
0.0
−0.5
5000
6000
7000
8000
9000
10000