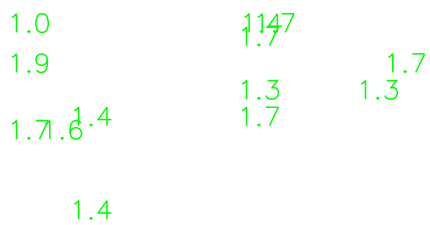
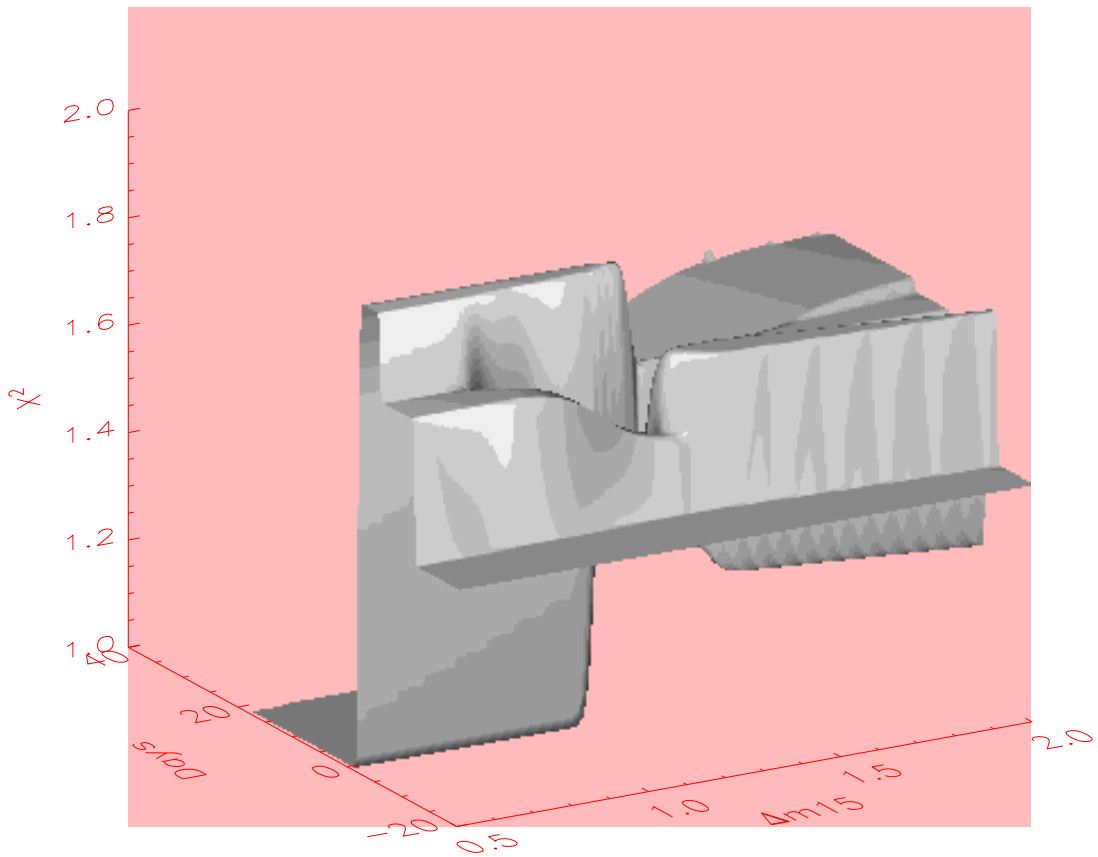
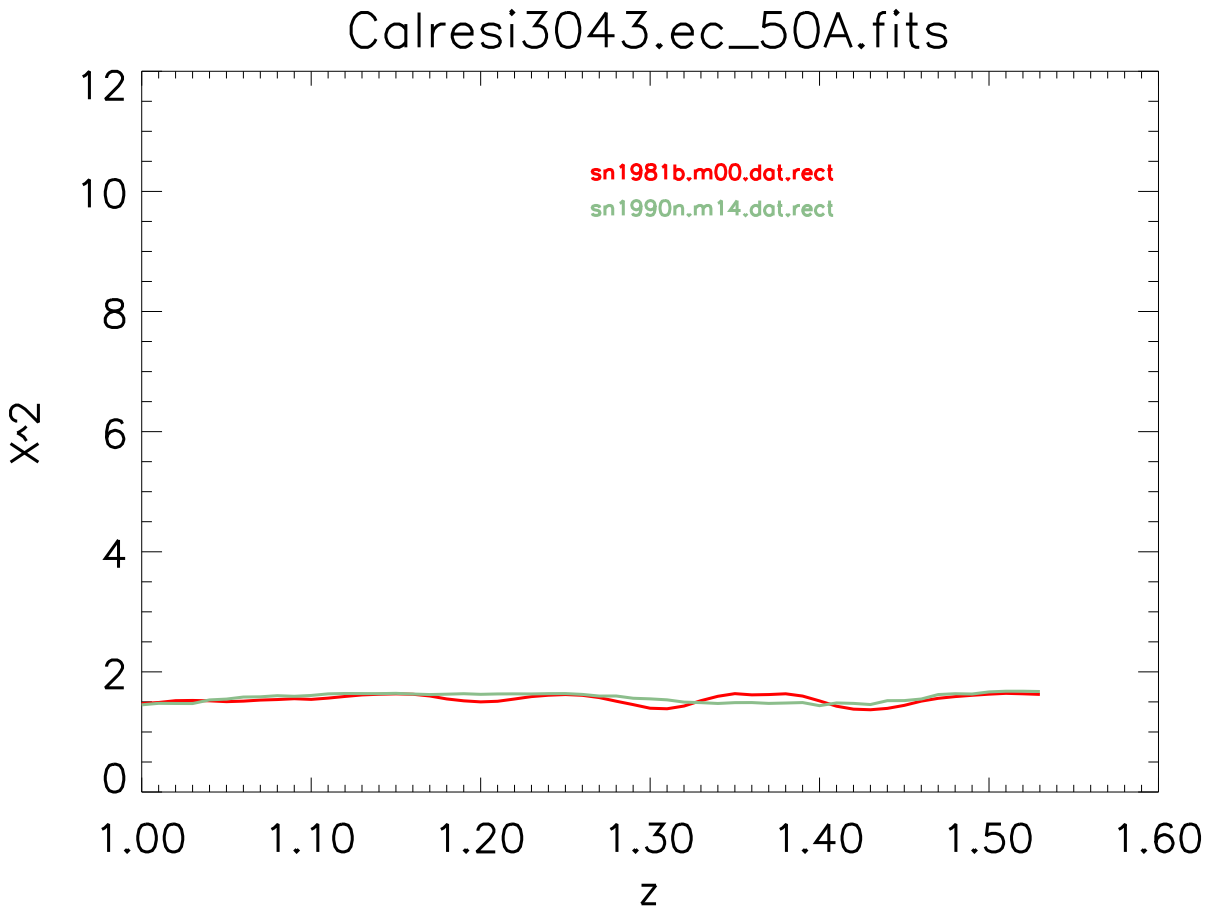
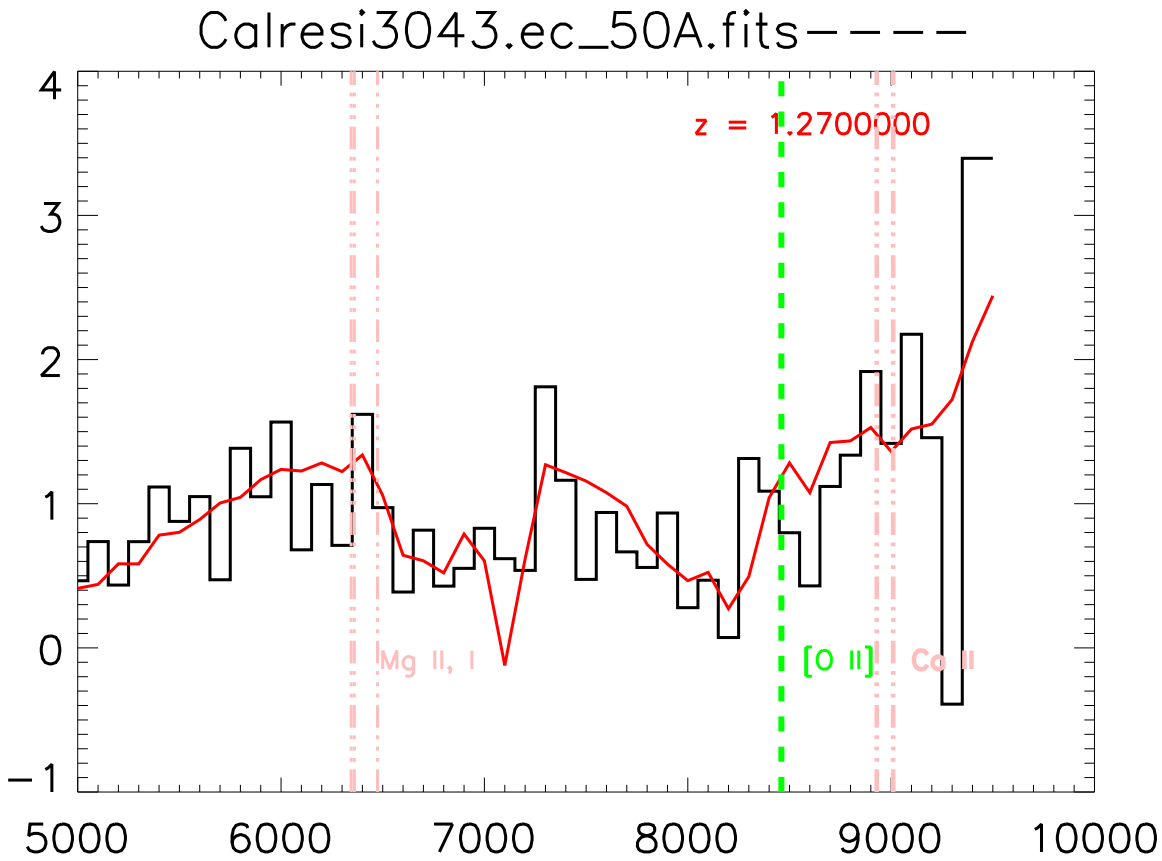
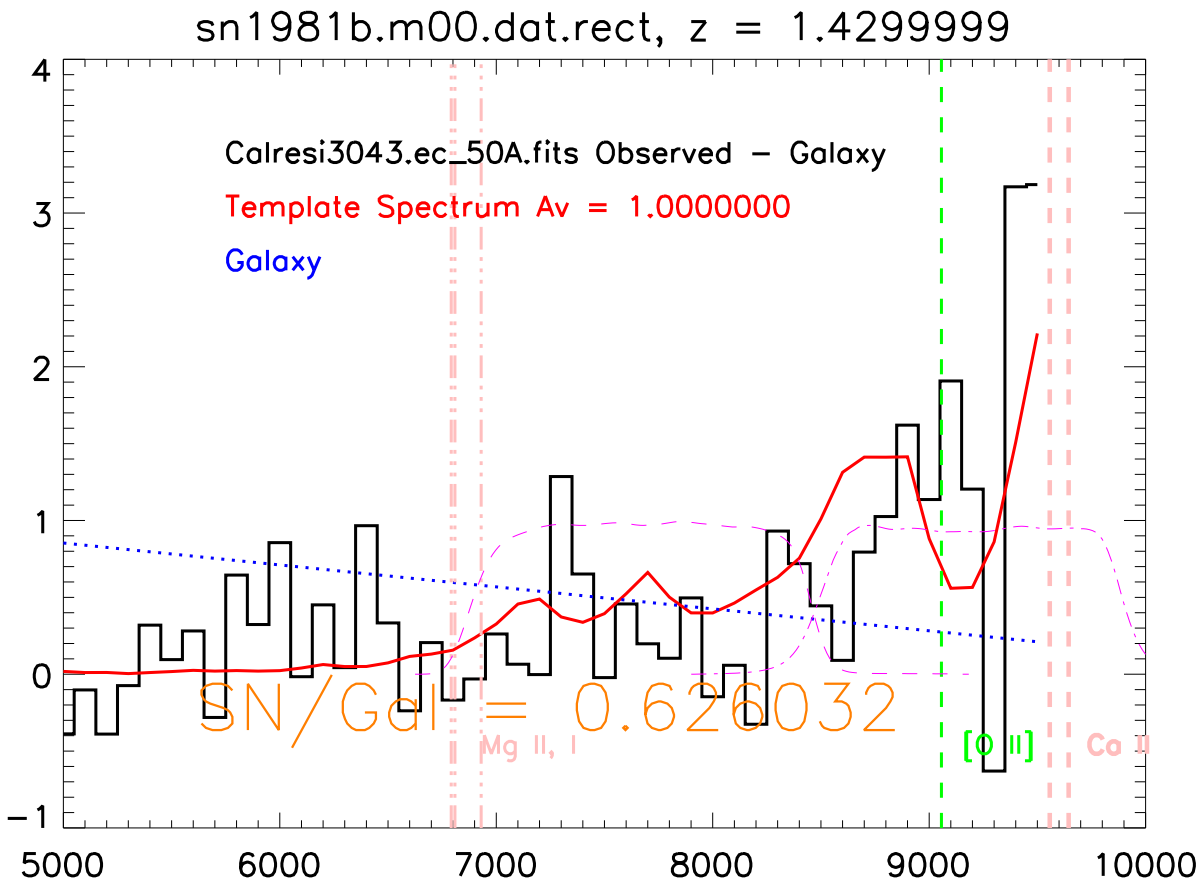
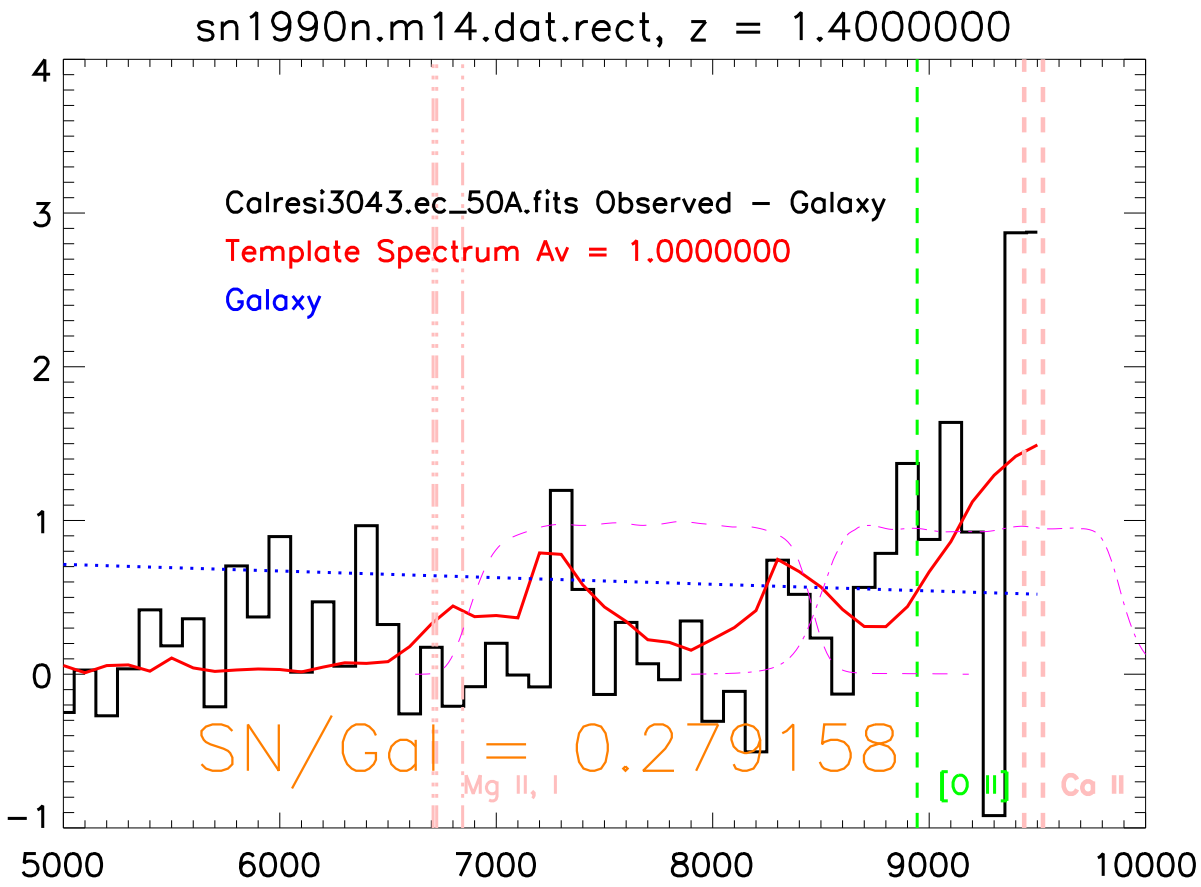

1.0
1.9
1.7
1.6
1.4
1.4
1.7
1.7
1.3
1.3
1.7


2.0
1.8
1.6
1.4
1.2
1.0
χ²
40
20
0
−20
Dots
0.5
1.0
1.5
2.0
Δm15


Calresi3043.ec_50A.fits
sn1981b.m00.dat.rect
sn1990n.m14.dat.rect
X^2
z
0
2
4
6
8
10
12
1.00
1.10
1.20
1.30
1.40
1.50
1.60


CaIresi3043.ec_50A.fits----
z = 1.2700000
Mg II, I
[O II]
Ca II
4
3
2
1
0
−1
5000
6000
7000
8000
9000
10000


sn1981b.m00.dat.rect, z = 1.4299999
Calresi3043.ec_50A.fits Observed − Galaxy
Template Spectrum Av = 1.0000000
Galaxy
SN/Gal = 0.6266032
Mg II, I
[O III]
Ca II
4
3
2
1
0
−1
5000
6000
7000
8000
9000
10000


sn1990n.m14.dat.rect, z = 1.4000000
Calresi3043.ec_50A.fits Observed − Galaxy
Template Spectrum Av = 1.0000000
Galaxy
SN/Gal = 0.279158
Mg II, I
[O II]
Ca II
4
3
2
1
0
−1
5000
6000
7000
8000
9000
10000